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23446

THE FALLS ON REFUGEE ROAD

3355 REFUGEE ROAD. COLUMBUS, OH 43232

PREPARED FOR:

CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY

COMMUNITY. COMMITMENT. COLLABORATION.

880 E. 11TH AVE. COLUMBUS, OHIO 43211

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ABBREVIATIONS

SYMBOLS

&	AND
L	ANGLE
@	AT
#	NUMBER / POUND
℄	CENTERLINE
⅊	PROPERTY LINE

A

AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONING / AIR CONDITIONER
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT / ADJUSTABLE
AFC	ABOVE FINISH CEILING
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APP'D	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AV	AUDIO VISUAL

B

BC	BOTTOM OF CURB
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM / BENCHMARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF

C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CFM	COLD FORMED METAL / CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CI	CURB INLET
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNSK	COUNTERSUNK
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CRS	COURSE
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER

D

DBL	DOUBLE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (ABOVE GRADE)
ELECT	ELECTRICAL
ELEV	ELEVATION (BUILDING ELEVATION)
ELV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL / EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXPO	EXPOSED
EXIST	EXISTING
EXT	EXTERIOR

F

FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FLG	FLASHING
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNACE
FURR	FURRING
FWC	FABRIC WALLCOVERING
FHC	FIRE HOSE CABINET

G

GA	GAGE / GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFI	GROUND FAULT INTERRUPT
GFRC	GLASS FIBER REINFORCED CONCRETE
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM WALLBOARD

H

H	HEIGHT / HIGH
HB	HOSE BIB
HC/HDCP	ACCESSIBLE
HOLW	HOLLOW
HDBD	HARDBOARD
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR / HANDRAIL
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER

I

ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JBOX	JUNCTION BOX
JST	JOIST
JT	JOINT

K

KIT	KITCHEN
KO	KNOCKOUT

L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LGTH	LENGTH
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTG	LIGHTING

M

MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	MARBLE TILE
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION

N

N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD

P

PC	PRE-CAST
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PORC	PORCELAIN
POS	POINT OF SALE
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT / PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR / REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE / SEALED CONCRETE
SCHED	SCHEDULE
SD	SMOKE DETECTOR / STORM DRAIN
SECT	SECTION
SHTG	SHEATHING
SHR	SHOWER
SHT	SHEET
SHT'G	SHEATHING
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSG	STRUCTURAL SEALANT GLAZED
SSK	SERVICE SINK
STA	STATION
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SY	SQUARE YARD
SYM	SYMMETRICAL

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CURB
TEL	TELEPHONE
THK	THICK(NESS)
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TS	TUBE STEEL
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO

U

UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL

V

VCT	VINYL COMPOSITION TILE
VB	VAPOR BARRIER / VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING

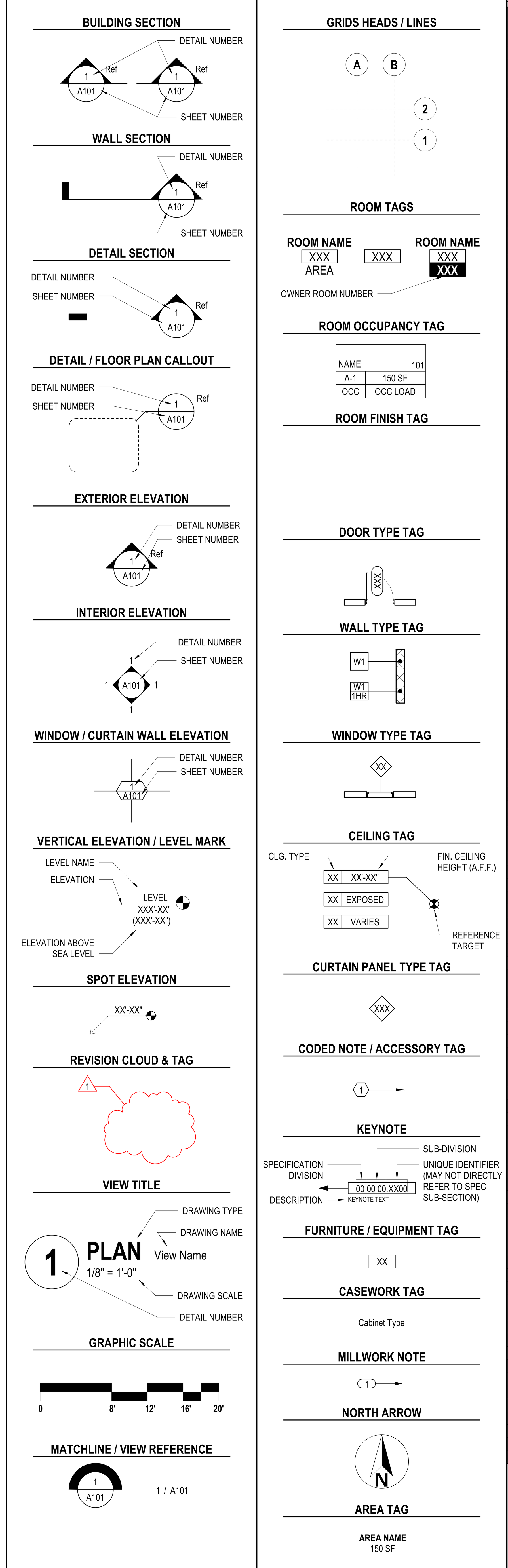
W

W	WEST / WIDTH
WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WI	WROUGHT IRON
WP	WATERPROOF
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

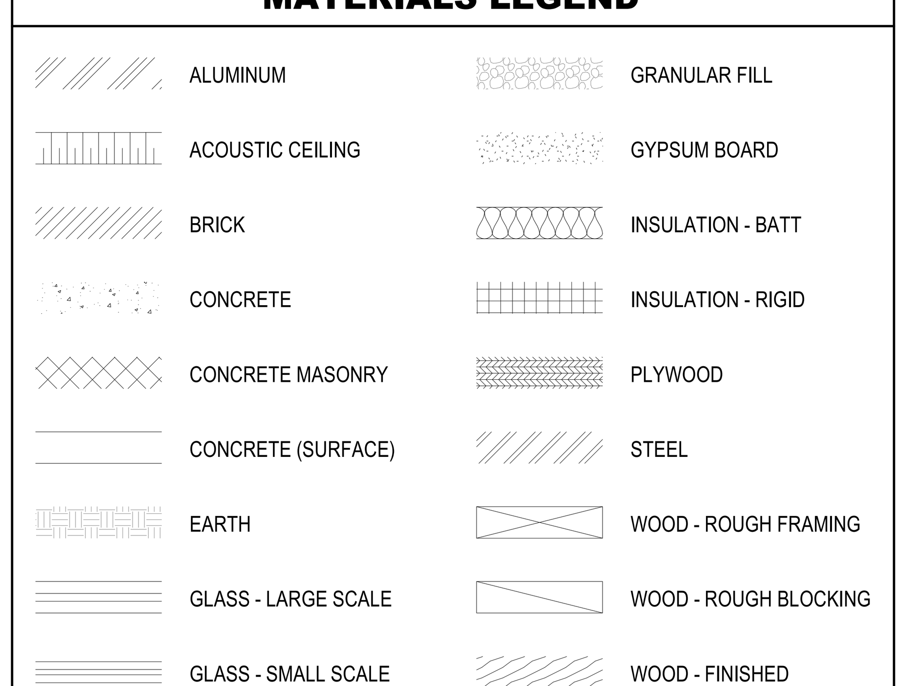
Y

YD	YARD / YARD DRAIN

SYMBOLS LEGEND



MATERIALS LEGEND



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Grand total: 213	

GENERAL NOTES

1. X

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
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BUILDING INFORMATION	
DEVELOPER NAME	COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
DEVELOPER ADDRESS	880 E. 11TH AVE COLUMBUS, OH 43211-2771
DEVELOPER PHONE	614-421-6000
SITE ADDRESS	3355 REFUGEE ROAD. COLUMBUS, OH 43232

DESCRIPTION

REFUGEE ROAD IS A MULTI-FAMILY RESIDENTIAL CAMPUS IN COLUMBUS, OHIO. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

THE PROPOSED RESIDENTIAL BUILDINGS ARE THREE STORY WALK-UPS. THE CAMPUS HAS A TOTAL OF 220 UNITS AND INCLUDES A MIX OF 1 BED/ 1 BATH, 2 BED/ 1 BATH, 2 BED/ 2 BATH AND 3 BED/ 2 BATH UNIT TYPES. EACH UNIT HAS A PRIVATE OUTDOOR BALCONY WITH METAL GUARDRAIL THAT IS ACCESSED THROUGH THE UNIT. THE BUILDINGS ARE CLAD IN VINYL LAP SIDING, BOARD AND BATTEN SIDING AND STONE VENEER. ALL OF THE BUILDING HAVE SLOPED ASPHALT SHINGLE ROOFS.

AREA MAP

VICINITY MAP

SITE INFORMATION	
PARCEL NO.	530-156568
EXISTING ZONING CLASSIFICATION:	LC4
ZONING CASE NO:	Z84-059A
VARIANCE:	CCC 333.18(B), CCC3312.49(C), CCC 3333.25, CCC 3312.21(D)(1)
HEIGHT DISTRICT:	H-35
COMMERCIAL OVERLAY:	NONE
TOTAL SITE AREA:	8.55 ACRES
FLOOD ZONE:	ZONE X
FLOOD INSURANCE RATE MAP # (FIRM):	39049C0341K
MOST RECENT EFFECTIVE DATE OF FIRM:	6/17/2008
BASE FLOOD ELEVATION:	NONE
SITE DATA	
TOTAL SITE AREA:	9.22 AC
TOTAL DISTRUBED AREA:	9.22 AC
DISTURBED IMPERVIOUS AREA:	0.00 AC
PRE-DEVELOPED IMPERVIOUS:	0.00 AC
POST-DEVELOPED IMPERVIOUS:	6.66 AC
PARKING	
REQUIRED PARKING	1.5 PER UNIT 1.5 * 220 = 330 TOTAL
PROPOSED PARKING	331 (289 SURFACE, 42 GARAGE)
REQUIRED ADA PARKING (VAN/TOTAL):	1/8
PROPOSED ADA PARKING (VAN/TOTAL):	1/8
REQUIRED BICYCLE RACKS:	9
PROPOSED BICYCLE RACKS:	TBD

BUILDING CODES	
TITLE	**EDITION**
OHIO BUILDING CODE	2024 OBC
OHIO PLUMBING CODE	2024 OPC
OHIO MECHANICAL CODE	2024 OMC
NATIONAL ELECTRICAL CODE	2023 NEC - NFPA 70
INTERNATIONAL FUEL GAS CODE	2021 IFGC
INTERNATIONAL ENERGY CONSERVATION CODE	2021 IECC SECTION R-401
ICC A117.1 - 2017 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2017 ANSI A117.1
NFPA 101 LIFE SAFETY CODE	2015 NFPA 101 LIFE SAFETY CODE
OHIO FIRE CODE	2021 IFC
NATIONAL FIRE ALARM AND SIGNALING CODE	NFPA 72-22
FAIR HOUSING ACT	THIS PROJECT IS DESIGNED TO MEET THE FAIR HOUSING ACT AND ITS SEVEN DESIGN AND CONSTRUCTION REQUIREMENTS: 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS 3. USABLE DOORS 4. ACCESSIBLE ROUTES INTO AND THROUGHOUT COVERED UNIT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS 6. REINFORCED WALLS IN BATHROOMS FOR LATER INSTALLATION OF GRAB BARS 7. USABLE KITCHEN AND BATHROOMS.
SAFE HARBOR FOR COMPLIANCE	**THIS PROJECT UTILIZES 2017 ANSI A117.1 AS ITS SAFE HARBOR.**

GENERAL BUILDING HEIGHTS AND AREAS		
	REQUIREMENTS	**SECTION/TABLE**
CONSTRUCTION TYPE	V-B	
USE GROUP	BUILDING TYPE A: R-2 BUILDING TYPE B: R-2 BUILDING TYPE C: R-2	
ALLOWABLE HEIGHT	BUILDING TYPE A: 60' - SPRINKLERED 13R BUILDING TYPE B: 60' - SPRINKLERED 13R BUILDING TYPE C: 60' - SPRINKLERED 13R	TABLE 504.3
ACTUAL HEIGHT	BUILDING TYPE A: 43' BUILDING TYPE B: 43' BUILDING TYPE C: 43'	
ALLOWABLE STORIES	BUILDING TYPE A: 3 STORIES BUILDING TYPE B: 3 STORIES BUILDING TYPE C: 3 STORIES	TABLE 504.4
ACTUAL STORIES	BUILDING TYPE A: 3 STORIES BUILDING TYPE B: 3 STORIES BUILDING TYPE C: 3 STORIES	
ALLOWABLE AREA	BUILDING TYPE A: 7,000 SF BUILDING TYPE B: 7,000 SF BUILDING TYPE C: 7,000 SF	TABLE 506.2
ALLOWABLE AREA INCREASE FOR OPEN PERIMETER	**BUILDING TYPE A:** Aa = [At + (NS x If)] Aa = [7,000 + (7,000 x 0.75)] Aa = 12,250 SF **BULDING TYPE B:** Aa = [At + (NS x If)] Aa = [7,000 + (7,000 x 0.75)] Aa = 12,250 SF	506.2.2 TABLE 506.3.3
ACTUAL AREA (PER FLOOR)	BUILDING TYPE A: 8,068 SF BUILDING TYPE B: 10,220 SF BUILDING TYPE C: 4,567 SF	

TYPES OF CONSTRUCTION		
	REQUIREMENTS	**SECTION**
CONSTRUCTION TYPE	VB	TABLE 601
EXTERIOR BEARING WALLS	0 OR 1 HR, SEE 1 / G011	TABLE 705.5
EXTERIOR NON-BEARING WALLS	0	
INTERIOR BEARING WALLS	0	
INTERIOR NON-BEARING WALLS	0	
FLOORS	0	
ROOF	0	
EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE	LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS SEE CODE SITE PLAN G011	
BALCONIES	MIN. 40" FROM LOT LINE BECAUSE FIRE SEPARATION DISTANCE IS GREATER THAN 5' BALCONY FLOOR NEEDS TO BE SAME RATING AS FLOOR OF BUILDING 0 REQUIREMENTS PER TABLE 601	TABLE 705.2 705.2.3.1
EXTERIOR WALL OPENINGS 10' TO 15' (UP SP)	MAX ALLOWABLE IS 45% THIS IS BETWEEN BUILDINGS C1 AND A4 AS WELL AS BUILDINGS C2 AND A5. REFER TO DIAGRAM	TABLE 705.8

FIRE-RESISTIVE-RATED CONSTRUCTION		
	REQUIREMENTS	**SECTION**
R-2 OCCUPANCY		
SEPARATION WALLS	FIRE PARTITION	708
DWELLING/ SLEEPING UNITS	1 HR (SPRINKLERED, NFPA-13R)	708.3
HORIZONTAL SEPARATION	1 HR (SPRINKLERED, NFPA-13R)	711.2.4
STAIR SHAFTS/ BREEZWAYS	1 HR	713.4
SEPARATION OF OCCUPANCIES IN BUILDING D (CLUBHOUSE)	FIRE PARTITIONS	420.2
BETWEEN R ALL OTHER OCCUPANCIES	1 HR (SPRINKLERED)	508.3.3, TABLE 508.4
OPENING PROTECTION	WALL RATING/ DOOR RATING	TABLE 716.5
FIRE PARTITION	1 HR / 1/2 HOUR	

INTERIOR FINISHES		
	REQUIREMENTS	**SECTION**
CLASSIFICATION	A-3/ R-2	TBD
WALL AND CEILING - INT EXT STAIRWAYS	CLASS B/B/C	TABLE 803.11
WALL AND CEILING - ROOMS	CLASS C/C/C	TABLE 803.11
FLOOR COVERINGS	DOC FF-1 "PILL TEST" OR ASTM D2859	804.4.1

FIRE PROTECTION SYSTEMS		
	REQUIREMENTS	**SECTION**
SPRINKLER SYSTEMS RESIDENTIAL UNITS BALCONIES AND DECKS CLUBHOUSE LEVEL	 NFPA 13R REQUIRED NFPA-13	 903.3.1.2 903.3.1.2.1 903.2.1.3
STANDPIPE SYSTEMS	NOT REQUIRED, HIGHEST STORY < 30'	905.3.1
FIRE EXTINGUISHERS	CLASS 2A - 75' TRAVEL DISTANCE/ 3,000 SF AREA	906
FIRE ALARM SYSTEM	REQUIRED	907.2.9
FIRE COMMAND PANEL	NOT REQUIRED	
EMERGENCY POWER	NOT REQUIRED	907.5.2.2.5
FIRE AND SMOKE DETECTORS	REQUIRED	907.2.11.1

MEANS OF EGRESS		
	REQUIREMENTS	**SECTION**
STAIR WIDTH	44" UNLESS < 50 OCCUP. - 36" MIN.	1011
	44" MIN. FOR ACCESSIBLE MEANS OF EGRESS	
	MAXIMUM TRVEL DISTANCE: 125'-0"	1006.3.4

UNIT INFORMATION

UNIT TYPE	AREA (Net sf)	NO. OF UNITS
1 BED 1 BATH UNIT	673 SF	62
2 BED 1 BATH UNIT	945 SF	72
2 BED 2 BATH UNIT	945 SF	48
3 BED 2 BATH UNIT	1209 SF	38
	TOTAL	220

BUILDING INFORMATION

BUILDING TYPE:	GROSS AREA PER FLOOR	NO OF STORIES	TOTAL GROSS SF PER BLDG	NO. OF BUILDINGS:	NUMBER OF UNITS PER BUILDING:	UNIT COMPOSITIONS				
						1 BED 1 BA UNIT	2 BED 1BA UNIT	2 BED 2 BA UNIT	3 BED 2 BA UNIT	UNIT COUNT x NO. OF BUILDINGS:
BUILDING A	8068 SQFT	3	24205 SQFT	5	24 UNITS	12	12	0	0	120
BUILDING B	10223 SQFT	3	30669 SQFT	3	24 UNITS	0	0	12	12	72
BUILDING C	4340 SQFT	3	13020 SQFT	2	12 UNITS	0	06	06	0	24
BUILDING D (CH)	4472 SQFT	2	8955 SQFT	1	4 UNITS	02	0	0	2	4
GARAGE BLDG G1	1470 SQFT	1	1470 SQFT	6	6 GARAGE UNITS					
GARAGE BLDG G2	2951 SQFT	1	2951 SQFT	1	12 GARAGE UNITS				**TOTAL UNIT COUNT**	220

TOTAL UNIT COUNT - 220
NO OF TYPE A UNITS - 10
1- 1 BED TYPE A IN BUILDNG A (5 TOTAL)
1- 3 BED TYPE A IN BUILDING B (3 TOTAL)
1- 2 BED/1 BA TYPE A IN BUILDING C (2 TOTAL)

NO OF SENSORY UNITS - 5
NO OF COVERED GARAGE SPOTS - 48

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CODE DATA - BUILDING A-C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G010

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:57:52 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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BUILDING INFORMATION	
DEVELOPER NAME	COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
DEVELOPER ADDRESS	880 E. 11TH AVE COLUMBUS, OH 43211-2771
DEVELOPER PHONE	614-421-6000
SITE ADDRESS	3355 REFUGEE ROAD. COLUMBUS, OH 43232

DESCRIPTION

REFUGEE ROAD IS A MULTI-FAMILY RESIDENTIAL CAMPUS IN COLUMBUS, OHIO. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

THE PROPOSED RESIDENTIAL BUILDINGS ARE THREE STORY WALK-UPS. THE CAMPUS HAS A TOTAL OF 220 UNITS AND INCLUDES A MIX OF 1 BED/ 1 BATH, 2 BED/ 1 BATH, 2 BED/ 2 BATH AND 3 BED/ 2 BATH UNIT TYPES. EACH UNIT HAS A PRIVATE OUTDOOR BALCONY WITH METAL GUARDRAIL THAT IS ACCESSED THROUGH THE UNIT. THE BUILDINGS ARE CLAD IN VINYL LAP SIDING, BOARD AND BATTEN SIDING AND STONE VENEER. ALL OF THE BUILDING HAVE SLOPED ASPHALT SHINGLE ROOFS.

AREA MAP

VICINITY MAP

SITE INFORMATION	
PARCEL NO.	530-156568
EXISTING ZONING CLASSIFICATION:	LC4
ZONING CASE NO:	Z84-059A
VARIANCE:	CCC 333.18(B), CCC3312.49(C), CCC 3333.25, CCC 3312.21(D)(1)
HEIGHT DISTRICT:	H-35
COMMERCIAL OVERLAY:	NONE
TOTAL SITE AREA:	8.55 ACRES
FLOOD ZONE:	ZONE X
FLOOD INSURANCE RATE MAP # (FIRM):	39049C0341K
MOST RECENT EFFECTIVE DATE OF FIRM:	6/17/2008
BASE FLOOD ELEVATION:	NONE
SITE DATA	
TOTAL SITE AREA:	9.22 AC
TOTAL DISTRUBED AREA:	9.22 AC
DISTURBED IMPERVIOUS AREA:	0.00 AC
PRE-DEVELOPED IMPERVIOUS:	0.00 AC
POST-DEVELOPED IMPERVIOUS:	6.66 AC
PARKING	
REQUIRED PARKING	1.5 PER UNIT 1.5 * 220 = 330 TOTAL
PROPOSED PARKING	331 (289 SURFACE, 42 GARAGE)
REQUIRED ADA PARKING (VAN/TOTAL):	1/8
PROPOSED ADA PARKING (VAN/TOTAL):	1/8
REQUIRED BICYCLE RACKS:	9
PROPOSED BICYCLE RACKS:	TBD

BUILDING CODES	
TITLE	EDITION
OHIO BUILDING CODE	2024 OBC
OHIO PLUMBING CODE	2024 OPC
OHIO MECHANICAL CODE	2024 OMC
NATIONAL ELECTRICAL CODE	2023 NEC - NFPA 70
INTERNATIONAL FUEL GAS CODE	2021 IFGC
INTERNATIONAL ENERGY CONSERVATION CODE	2021 IECC SECTION R-401
ASHRAE 90.1 - 2010 ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS	2019 ASHRAE 90.1
ICC A117.1 - 2017 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2017 ANSI A117.1
NFPA 101 LIFE SAFETY CODE	2015 NFPA 101 LIFE SAFETY CODE
OHIO FIRE CODE	2021 IFC
NATIONAL FIRE ALARM AND SIGNALING CODE	NFPA 72-22
FAIR HOUSING ACT	THIS PROJECT IS DESIGNED TO MEET THE FAIR HOUSING ACT AND ITS SEVEN DESIGN AND CONSTRUCTION REQUIREMENTS: 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS 3. USABLE DOORS 4. ACCESSIBLE ROUTES INTO AND THROUGHT COVERED UNIT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS 6. REINFORCED WALLS IN BATHROOMS FOR LATER INSTALLATION OF GRAB BARS 7. USABLE KITCHEN AND BATHROOMS.
SAFE HARBOR FOR COMPLIANCE	**THIS PROJECT UTILIZES 2017 ANSI A117.1 AS ITS SAFE HARBOR.**

GENERAL BUILDING HEIGHTS AND AREAS		
	REQUIREMENTS	SECTION/TABLE
CONSTRUCTION TYPE	V-B	
USE GROUP	BUILDING TYPE D: R-2, A-3 *	
ALLOWABLE HEIGHT	BUILDING TYPE D: 60' - SPINRKLERED*	TABLE 504.3
ACTUAL HEIGHT	BUILDING TYPE D: 47'-10"	
ALLOWABLE STORIES	BUILDING TYPE D: (A-3) 2 STORIES*	TABLE 504.4
ACTUAL STORIES	BUILDING TYPE D: 2 STORIES	
ALLOWABLE AREA	BUILDING TYPE D: 18,000 SF*	TABLE 506.2
ACTUAL AREA (PER FLOOR)	BUILDING TYPE D: 4,496 SF **BUILDING TYPE D (CLUBHOUSE) IS ANALYZED AS A MIXED USE NON SEPERATED OCCUPANCY BUILDING. THE ALLOWABLE AREA, HEIGHT AND NUMBER OF STORIES IS BASED ON MOST RESTRICTIVE ALLOWANCES WHICH IS A-3.*	508.3.2

TYPES OF CONSTRUCTION		
	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	VB	TABLE 601
EXTERIOR BEARING WALLS	0	TABLE 705.5
EXTERIOR NON-BEARING WALLS	0	
INTERIOR BEARING WALLS	0	
INTERIOR NON-BEARING WALLS	0	
FLOORS	0	
ROOF	0	
EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE	LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS SEE CODE SITE PLAN G011	
BALCONIES	MIN. 40" FROM LOT LINE BECAUSE FIRE SEPARATION DISTANCE IS GREATER THAN 5' BALCONY FLOOR NEEDS TO BE SAME RATING AS FLOOR OF BUILDING 0 REQUIREMENTS PER TABLE 601	TABLE 705.2 705.2.3.1
EXTERIOR WALL OPENINGS 10' TO 15' (UP SP)	MAX ALLOWABLE IS 45% THIS IS BETWEEN BUILDINGS C1 AND A4 AS WELL AS BUILDINGS C2 AND A5. REFER TO DIAGRAM	TABLE 705.8

FIRE-RESISTIVE-RATED CONSTRUCTION		
	REQUIREMENTS	SECTION
R-2 OCCUPANCY		
SEPARATION WALLS	FIRE PARTITION	708
DWELLING/ SLEEPING UNITS	1 HR (SPRINKLERED, NFPA-13)	708.3
HORIZONTAL SEPARATION	1 HR (SPRINKLERED, NFPA-13)	711.2.4
STAIR SHAFTS/ BREEZWAYS	1 HR	713.4
SEPARATION OF OCCUPANCIES IN BUILDING D (CLUBHOUSE)	FIRE PARTITIONS	420.2
BETWEEN R ALL OTHER OCCUPANCIES	1 HR (SPRINKLERED)	508.3.3, TABLE 508.4
OPENING PROTECTION	WALL RATING/ DOOR RATING	TABLE 716.5
FIRE PARTITION	1 HR / 1/2 HOUR	

INTERIOR FINISHES		
	REQUIREMENTS	SECTION
CLASSIFICATION	A-3/ R-2	TBD
WALL AND CEILING - INT EXT STAIRWAYS	CLASS B/B/C	TABLE 803.11
WALL AND CEILING - ROOMS	CLASS C/C/C	TABLE 803.11
FLOOR COVERINGS	DOC FF-1 "PILL TEST" OR ASTM D2859	804.4.1

FIRE PROTECTION SYSTEMS		
	REQUIREMENTS	SECTION
SPRINKLER SYSTEMS BALCONIES AND DECKS	NFPA 13R REQUIRED	903.3.1.2 903.3.1.2.1
STANDPIPE SYSTEMS	NOT REQUIRED, HIGHEST STORY < 30'	905.3.1
FIRE EXTINGUISHERS	CLASS 2A - 75' TRAVEL DISTANCE/ 3,000 SF AREA	906
FIRE ALARM SYSTEM	REQUIRED	907.2.9
FIRE COMMAND PANEL	NOT REQUIRED	
EMERGENCY POWER	NOT REQUIRED	907.5.2.2.5
FIRE AND SMOKE DETECTORS	REQUIRED	907.2.11.1

MEANS OF EGRESS		
	REQUIREMENTS	SECTION
STAIR WIDTH	44" UNLESS < 50 OCCUP. - 36" MIN.	
	44" MIN. FOR ACCESSIBLE MEANS OF EGRESS	

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L587
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL- UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL P522
15. EXTERIOR WALL TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U356

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR

OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG

GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200 — OCCUPANT LOAD
AREA SF

PATH OF EGRESS TRAVEL

A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

- R-2 RESIDENTIAL R-2
- S-2 STORAGE S-2
- A-2 ASSEMBLY A-2
- A-3 ASSEMBLY A-3
- U UTILITY

UNIT INFORMATION

UNIT TYPE	AREA (Net sf)	NO. OF UNITS
1 BED 1 BATH UNIT	673 SF	62
2 BED 1 BATH UNIT	945 SF	72
2 BED 2 BATH UNIT	945 SF	48
3 BED 2 BATH UNIT	1209 SF	38
		TOTAL 220

BUILDING INFORMATION

BUILDING TYPE:	GROSS AREA PER FLOOR	NO OF STORIES	TOTAL GROSS SF PER BLDG	NO. OF BUILDINGS:	NUMBER OF UNITS PER BUILDING:	UNIT COMPOSITIONS				
						1 BED 1 BA UNIT	2 BED 1BA UNIT	2 BED 2 BA UNIT	3 BED 2 BA UNIT	UNIT COUNT x NO. OF BUILDINGS:
BUILDING A	8068 SQFT	3	24205 SQFT	5	24 UNITS	12	12	0	0	120
BUILDING B	10223 SQFT	3	30669 SQFT	3	24 UNITS	0	0	12	12	72
BUILDING C	4340 SQFT	3	13020 SQFT	2	12 UNITS	0	06	06	0	24
BUILDING D (CH)	4472 SQFT	2	8955 SQFT	1	4 UNITS	02	0	0	2	4
GARAGE BLDG G1	1470 SQFT	1	1470 SQFT	6	6 GARAGE UNITS					
GARAGE BLDG G2	2951 SQFT	1	2951 SQFT	1	12 GARAGE UNITS				**TOTAL UNIT COUNT**	220

TOTAL UNIT COUNT - 220
NO OF TYPE A UNITS - 10
1- 1 BED TYPE A IN BUILDNG A (5 TOTAL)
1- 3 BED TYPE A IN BUILDING B (3 TOTAL)
1- 2 BED/1 BA TYPE A IN BUILDING C (2 TOTAL)

NO OF SENSORY UNITS - 5
NO OF COVERED GARAGE SPOTS - 48

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CODE DATA - CLUBHOUSE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G010D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:57:54 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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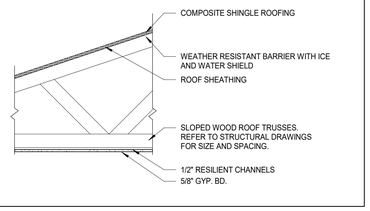
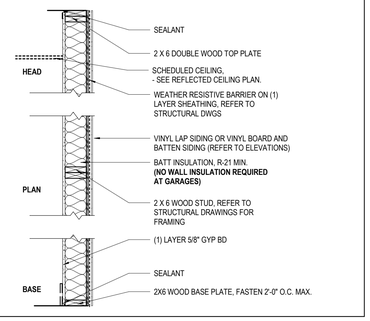
R3 - SLOPED ROOF

UL #: N/A
FIRE RATING: NON-RATED

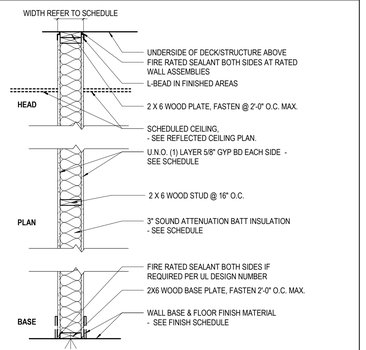


E1 - TYPICAL EXTERIOR STUD WALL

UL #: N/A
FIRE RATING: NOT REQUIRED



TYPE 12 - 2 X 6 WOOD STUD WALL TYPES



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
12A	6 3/4"	2X6	No	Yes	Yes	1HR	UL# U305	35 EST.	No	04	

GARAGE BUILDING ASSEMBLIES SCHEDULE

3 SITE PLAN - GARAGE LOCATION
1" = 60'-0"

BUILDING INFORMATION	
DEVELOPER NAME	COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
DEVELOPER ADDRESS	880 E. 11TH AVE COLUMBUS, OH 43211-2771
DEVELOPER PHONE	614-421-6000
SITE ADDRESS	3355 REFUGEE ROAD. COLUMBUS, OH 43232

DESCRIPTION

REFUGEE ROAD IS A MULTI-FAMILY RESIDENTIAL CAMPUS IN COLUMBUS, OHIO. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

THE PROPOSED RESIDENTIAL BUILDINGS ARE THREE STORY WALK-UPS. THE CAMPUS HAS A TOTAL OF 220 UNITS AND INCLUDES A MIX OF 1 BED/ 1 BATH, 2 BED/ 1 BATH, 2 BED/ 2 BATH AND 3 BED/ 2 BATH UNIT TYPES. EACH UNIT HAS A PRIVATE OUTDOOR BALCONY WITH METAL GUARDRAIL THAT IS ACCESSED THROUGH THE UNIT. THE BUILDINGS ARE CLAD IN VINYL LAP SIDING, BOARD AND BATTEN SIDING AND STONE VENEER. ALL OF THE BUILDING HAVE SLOPED ASPHALT SHINGLE ROOFS.

TYPES OF CONSTRUCTION	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	VB	TABLE 601
EXTERIOR BEARING WALLS	0	TABLE 705.5
EXTERIOR NON-BEARING WALLS	0	
INTERIOR BEARING WALLS	0	
INTERIOR NON-BEARING WALLS	0	
FLOORS	0	
ROOF	0	
EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE	LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS	

SITE INFORMATION	
PARCEL NO.	530-156568
EXISTING ZONING CLASSIFICATION:	LC4
ZONING CASE NO:	Z04-059A
VARIANCE:	CCC 333.18(B), CCC3312.49(C), CCC 3333.25, CCC 3312.21(D)(1)
HEIGHT DISTRICT:	H-35
COMMERCIAL OVERLAY:	NONE
TOTAL SITE AREA:	8.55 ACRES
FLOOD ZONE:	ZONE X
FLOOD INSURANCE RATE MAP # (FIRM):	39049C0341K
MOST RECENT EFFECTIVE DATE OF FIRM:	6/17/2008
BASE FLOOD ELEVATION:	NONE
SITE DATA	
TOTAL SITE AREA:	9.22 AC
TOTAL DISTRUBED AREA:	9.22 AC
DISTURBED IMPERVIOUS AREA:	0.00 AC
PRE-DEVELOPED IMPERVIOUS:	0.00 AC
POST-DEVELOPED IMPERVIOUS:	6.66 AC
PARKING	
REQUIRED PARKING	1.5 PER UNIT 1.5 * 220 = 330 TOTAL
PROPOSED PARKING	337 (289 SURFACE, 48 GARAGE)
REQUIRED ADA PARKING (VAN/TOTAL):	2/8
PROPOSED ADA PARKING (VAN/TOTAL):	2/8
REQUIRED BICYCLE RACKS:	9
PROPOSED BICYCLE RACKS:	TBD

BUILDING CODES	
TITLE	EDITION
OHIO BUILDING CODE	2024 OBC
OHIO PLUMBING CODE	2024 OPC
OHIO MECHANICAL CODE	2024 OMC
NATIONAL ELECTRICAL CODE	2023 NEC - NFPA 70
INTERNATIONAL FUEL GAS CODE	2021 IFGC
INTERNATIONAL ENERGY CONSERVATION CODE	2021 IECC SECTION R-401
ASHRAE 90.1 - 2010 ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS	2019 ASHRAE 90.1
ICC A117.1 - 2017 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2017 ANSI A117.1
NFPA 101 LIFE SAFETY CODE	2015 NFPA 101 LIFE SAFETY CODE
OHIO FIRE CODE	2021 IFC
NATIONAL FIRE ALARM AND SIGNALING CODE	NFPA 72-22
FAIR HOUSING ACT	THIS PROJECT IS DESIGNED TO MEET THE FAIR HOUSING ACT AND ITS SEVEN DESIGN AND CONSTRUCTION REQUIREMENTS: 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS 3. USABLE DOORS 4. ACCESSIBLE ROUTES INTO AND THROUGHT COVERED UNIT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS 6. REINFORCED WALLS IN BATHROOMS FOR LATER INSTALLATION OF GRAB BARS 7. USABLE KITCHEN AND BATHROOMS.
SAFE HARBOR FOR COMPLIANCE	**THIS PROJECT UTILIZES 2017 ANSI A117.1 AS ITS SAFE HARBOR.**

GENERAL BUILDING HEIGHTS AND AREAS	REQUIREMENTS	SECTION/TABLE
CONSTRUCTION TYPE	V-B	
USE GROUP	U	312.1 / 406.3.1
ALLOWABLE HEIGHT	40' - NOT SPRINKLERED	903.2.10.1
ACTUAL HEIGHT	14'	
ALLOWABLE STORIES	1 STORY	TABLE 504.4
ACTUAL STORIES	1 STORY	
ALLOWABLE AREA	5,500 SF - NOT SPRINKLERED	TABLE 506.2
ACTUAL AREA (PER FLOOR)	G1: 1,570 SF G2: 3,135 SF	

FIRE-RESISTIVE-RATED CONSTRUCTION	REQUIREMENTS	SECTION
U OCCUPANCY		
SEPARATION WALLS	1 HR	406.3.2
HORIZONTAL SEPARATION	1 HR	406.3.2
EXTERIOR BEARING WALLS	0 OR 1 HR. SEE	TABLE 705.5
	WALL RATING/ DOOR RATING LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS SEE CODE SITE PLAN G011	
OPENING PROTECTION		TABLE 716.5
FIRE PARTITION	1 HR / 1/2 HOUR	

INTERIOR FINISHES	REQUIREMENTS	SECTION
CLASSIFICATION	NO RESTRICTIONS/U	TABLE 803.13

FIRE PROTECTION SYSTEMS	REQUIREMENTS	SECTION
SPRINKLER SYSTEMS	NOT REQUIRED	SECTION 903
STANDPIPE SYSTEMS	NOT REQUIRED	SECTION 905
FIRE EXTINGUISHERS	NOT REQUIRED	SECTION 906
FIRE ALARM SYSTEM	NOT REQUIRED	SECTION 907
FIRE COMMAND PANEL	NOT REQUIRED	

MEANS OF EGRESS	REQUIREMENTS	SECTION
OCCUPANCY	200 GROSS/OCCUPANT	TABLE 1004.5
CLEAR HEIGHT	7'0" MINIMUM	406.2.2

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L587
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL- UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL P522

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200 — OCCUPANT LOAD
AREA SF

PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

-2 R-2	RESIDENTIAL R-2	A-2 A	ASSEMBLY A-2
-2 S-2	STORAGE S-2	A-3 A	ASSEMBLY A-3
		U	UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	78'-0"	20'-0"	125'-0"	COMMON	98'-0"
A.3	84'-1"	40'-0"	125'-0"	COMMON	124'-1"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	86'-5"	20'-0"	125'-0"	COMMON	106'-5"
B.3	104'-2"	20'-0"	125'-0"	COMMON	124'-2"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	76'-3"	0"	125'-0"	COMMON	76'-3"
C.3	84'-10"	40'-0"	125'-0"	COMMON	124'-10"
D1	56'-7"	0"	125'-0"	COMMON	56'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	31'-10"	0"	125'-0"	COMMON	31'-10"
G2	31'-10"	0"	125'-0"	COMMON	31'-10"

AREA MAP

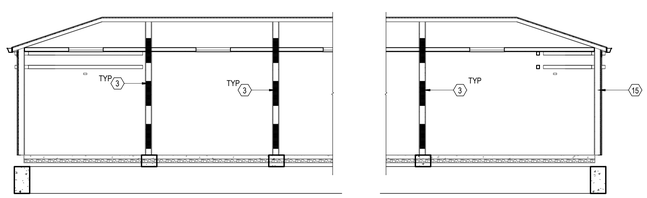
VICINITY MAP

BUILDING INFORMATION

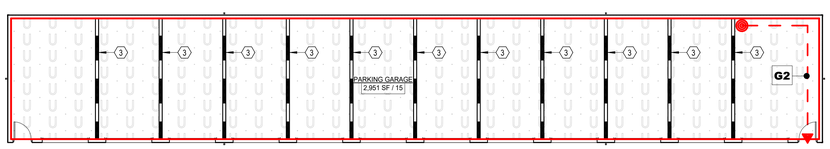
BUILDING TYPE:	GROSS AREA PER FLOOR	NO OF STORIES	TOTAL GROSS SF PER BLDG	NO. OF BUILDINGS:	NUMBER OF UNITS PER BUILDING:	UNIT COMPOSITIONS: 1 BED 1 BA UNIT	2 BED 1BA UNIT	2 BED 2 BA UNIT	3 BED 2 BA UNIT	UNIT COUNT x NO. OF BUILDINGS:
BUILDING A	8068 SQFT	3	24205 SQFT	5	24 UNITS	12	12	0	0	120
BUILDING B	10223 SQFT	3	30669 SQFT	3	24 UNITS	0	0	12	12	72
BUILDING C	4340 SQFT	3	13020 SQFT	2	12 UNITS	0	06	06	0	24
BUILDING D (CH)	4472 SQFT	2	8955 SQFT	1	4 UNITS	02	0	0	2	4
GARAGE BLDG G1	1470 SQFT	1	1470 SQFT	6	6 GARAGE UNITS					
GARAGE BLDG G2	2951 SQFT	1	2951 SQFT	1	12 GARAGE UNITS				TOTAL UNIT COUNT	220

TOTAL UNIT COUNT - 220
NO OF TYPE A UNITS - 10
1- 1 BED TYPE A IN BUILDNG A (5 TOTAL)
1- 3 BED TYPE A IN BUILDING B (3 TOTAL)
1- 2 BED/1 BA TYPE A IN BUILDING C (2 TOTAL)

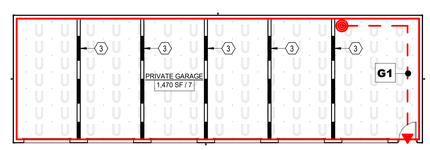
NO OF SENSORY UNITS - 5
NO OF COVERED GARAGE SPOTS - 48



4 SECTION LIFE SAFETY - GARAGE
3/16" = 1'-0"



2 PLAN GARAGE G2-LIFE SAFETY
3/32" = 1'-0"



1 PLAN GARAGE G1-LIFE SAFETY
3/32" = 1'-0"

OCCUPANCY LIFE SAFETY (GARAGE)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
UTILITY - PRIVATE GARAGE	**1,470 SF**	**200**	**7**
UTILITY - PRIVATE GARAGE	**2,951 SF**	**200**	**15**
GRAND TOTAL	**4,421 SF**		**22**

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CODE DATA & LIFE SAFETY - GARAGES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G010G
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/2/2025 3:40:47 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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1 **CODE SITE PLAN**
1" = 40'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CODE SITE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G011
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:57:58 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dnlprint - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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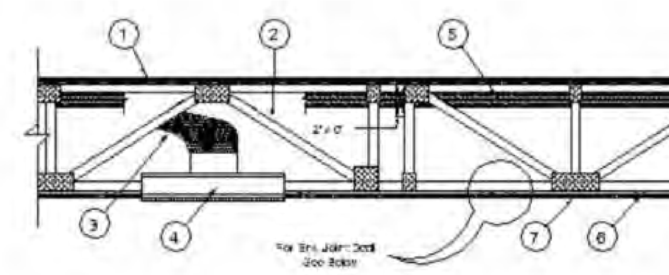
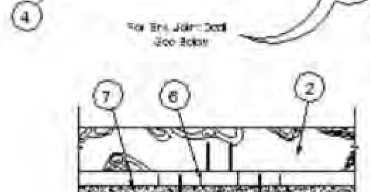
Design No. L587

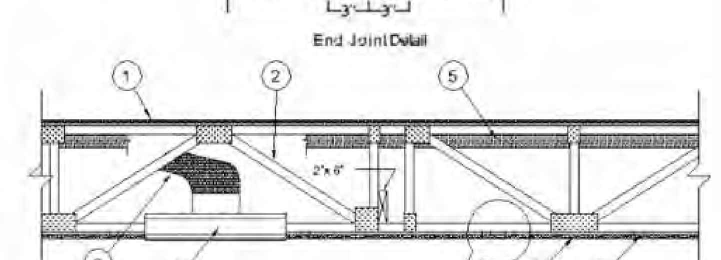
December 18, 2024

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 22 Min
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

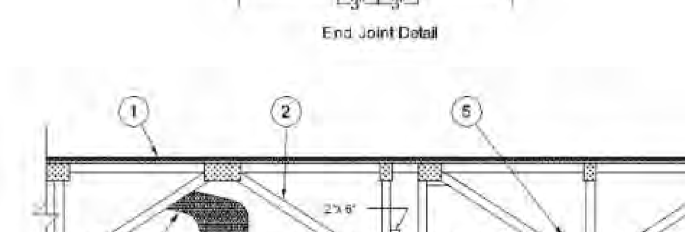




End Joint Detail



End Joint Detail



Alternate Insulation Placement

1. Flooring System — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor".
Secured to trusses with No. 8 ring shank nails. Nails installed at panel edge, 6 in. from panel edge and 12 in. OC over the rest of the panel width Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2

Subflooring —Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with # 8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends . Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the boards.
AMERIFORM LLC — Type Nocom Vapor Barrier —(Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)
HACKER INDUSTRIES INC — FIRM-FILL SCM 125
Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)
HACKER INDUSTRIES INC — Types FIRM-FILL SCM 250 and FIRM-FILL SCM 250+
Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)
HACKER INDUSTRIES INC — Types FIRM-FILL SCM 400 and FIRM-FILL SCM 400+
Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)
HACKER INDUSTRIES INC — Types FIRM-FILL SCM 750 and FIRM-FILL SCM 750+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.
HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.
HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.
Metal Lath (Optional) — For use with 3/8 in. or 10 mm floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material.
Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.
Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 3

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with # 8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor - Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.
HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 4

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with # 8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
LATICRETE SUPERCAP L L C — Types LRK, HSLRK
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD
USG MEXICO S A DE C V — Types LRK, HSLRK, CSD
Floor Mat Materials* — (Optional) — Floor mat material nom 1/16 in. loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25
Alternate Floor Mat Materials* — (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor.
GRASSWORX L L C — Type SC50

Design No. L587 (continued)

System No. 5

Subflooring — Min 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 6

Subflooring — Min 23/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing." Face grain of plywood or strength axis to be installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels may be secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — Types GSL M3.4, GSL K2.6, GSL-CSD and GSL RH
Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 7

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD
USG MEXICO S A DE C V — Types LRK, HSLRK, CSD
Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 8

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Subflooring (Alternate) — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with 2 in. long self-drilling, self- tapping screws spaced a max of 12 in. OC in the field with screws located 1 in. from long edge, and max 8 in. OC along the end joints with screws located 1/2 in. from end joint.
ECTEK INTERNATIONAL INC — Type MegaBoard
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor".
Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 9

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to trusses, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.
Finish Flooring — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.
HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 10

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 11

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with # 8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30
Floor Mat Materials* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP — Types Maxxon Standard and Maxxon High Strength
Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP — Type Encapsulated Sound Mat.
Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
Metal Lath — (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.
Fiber Glass Reinforcement — (Optional) 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

Design No. L587 (continued)

System No. 13

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.

AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
FORMULATED MATERIALS LLC — Types FR-25, FR-30, SiteMix, and Treadstone Advantage
Floor Mat Materials* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 14

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.

AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.
ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 15

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
Floor Mat Materials* — (Optional) — Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat RST02
Floor Mat Materials* — (Optional) — Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat FF03NP
Floor Mat Materials* — (Optional) — Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat FF06
Floor Mat Materials* — (Optional) — Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
PLITEQ INC — Type GenieMat FF10
Floor Mat Materials* — (Optional) — Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
PLITEQ INC — Type GenieMat FF17
Floor Mat Materials* — (Optional) — Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
PLITEQ INC — Type GenieMat FF25

System No. 16

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring — Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (CFFX) and Vermiculite Aggregate (CJZZ) categories for names of manufacturers.

System No. 17

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS
Floor Mat Materials* — (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.
MAXXON CORP — Type Encapsulated Sound Mat
Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 18

Deleted.

System No. 19

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.
ELASTIZELL CORP OF AMERICA — Type FF

System No. 20

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.
AERIX INDUSTRIES — Floor Topping Mixture

System No. 21

Subflooring — Min 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring — Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (CFFX) and Vermiculite Aggregate (CJZZ) categories for names of manufacturers.
Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

Design No. L587 (continued)

System No. 22

Structural Cement-Fiber Units* — For use with UNITED STATES GYPSUM CO gypsum boards only. Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 23

Subflooring — Min 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with # 8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
Freudenberg Performance Materials LP — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus.
Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.
Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 24

Subflooring — Nom. 1-1/2 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the trusses with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
RSP INDUSTRIES INC — SAP board

System No. 25

Subflooring — Min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss.
Wall and Partition Facings and Accessories* - Sound Barrier — (Optional) — Acoustic Sleeper pads stapled to the top of the subfloor and centered over wood trusses. Acoustic Sleeper pads are to be spaced appropriately so that the finish floor panels are fastened through Acoustic Sleeper pads to the trusses.
STC ARCHITECTURAL PRODUCTS L L C DBA STC SOUND CONTROL — Acoustic Sleeper
inish Floor — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Butt joints of panels have the option of being sealed with any UL Classified caulk or sealant found under - Fill, Void or Cavity Materials* (XHHW).

System No. 26

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Alternate Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 27

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Building Units— Min 1/2 in. thick. All joints staggered min 12" oc from adjacent subfloor joints.
DRAGONBOARD USA L L C — Type DragonBoard, DragonBoard Flooring

System No. 28

Subflooring - Min 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 4 ft. Plywood panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Finish Floor – Building Units* - Min 1/2 in. thick, supplied in 4 ft by 8 ft panels, installed perpendicular or parallel to trusses with panel edges offset a min of 24 in. with adjacent sub-floor joints. Panels secured to subfloor with construction adhesive and corrosion resistant fasteners spaced a max of 12 in. OC. around perimeter and in the field of the panel. Fasteners located 1/2 in. at butt edges and 2 in. from long edges of the board.

MULTI-PANELS - Type M4 panel

System No. 29

Subflooring – Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.
AMERIFORM LLC — Type Nocom
Finish Floor – Building Units* - Min 1/2 in. thick, supplied in 4 ft by 8 ft panels, installed perpendicular or parallel to trusses with panel edges offset a min of 24 in. with adjacent sub-floor joints. Panels secured to subfloor with construction adhesive and corrosion resistant fasteners spaced a max of 12 in. OC. around perimeter and in the field of the panel. Fasteners Located 1/2 in. at butt edges and 2 in. from long edges of the board.
MULTI-PANELS – Type M4 panel

System No. 30

Subflooring — Building Units* — Nom 3/4 in. thick, ship-lap or tongue-in-groove edge detail. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with #8 x 2 in. long screws or 2 in. long by 0.113 in. ring shank nails spaced a max of 12 in. OC in the field and 8 in. OC along butt ends. Fasteners located 1/2 in. from butt edges and 2 in. from long edges of the board.

AMERIFORM LLC — Type Nocom
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor".
Secured to trusses with No. 8 ring shank nails. Nails installed at panel edge, 6 in. from panel edge and 12 in. OC over the rest of the panel width Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 31

Subflooring - Building Units* — Nom. 1-3/16 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the trusses with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 2-3/8 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
RSP INDUSTRIES INC — SAP 1.0

2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented horizontally or vertically. Min truss depth is 12 in. when no Ceiling Damper is used and 18 in. when a Ceiling Damper* is used. Truss members secured together with min nominal 0.040 in. thick galvanized steel plates. Plates have min. 3/8 in. long teeth projecting perpendicular to the plane of the plate.

3. Air Duct* (Optional) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the duct manufacturer. The air duct may be connected with a steel duct elbow.

4. Ceiling Damper* — For use with min 18 in. deep trusses. Max 12 in. diameter damper and insulated register box assembly. The maximum size of the register box assembly is nom. 20 in. long by 20 in. wide and 4 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.

AIRE TECHNOLOGIES INC — Model 57IB
AIRVAC INDUSTRIES — Model AVI-57IB

4A. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max 20 in. long by 16 in. wide by 4 in. high rectangular damper with plenum box assembly. The maximum outer dimensions of the plenum box assembly is 23-1/2 in. long by 19-1/2 in. wide and 17 in. high fabricated from 6pcf, 1-1/2 to 2 in. thick Knauf Air Duct Board M*. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 160 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Series 58
AIRVAC INDUSTRIES — Series AVI-58

4B. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max 14 in. long by 14 in. wide and 18 in. high ceiling damper with boot or box assembly, fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Model 50 w/Boot, 50EA w/Boot, 51 w/Boot, 50 w/Box, 50EA w/Box or 51 w/Box.
AIRVAC INDUSTRIES — Series AVI-50 w/Boot, AVI-50EA w/Boot, AVI-51 w/Boot, AVI-50 w/Box, AVI-50EA w/Box, AVI-51 w/Box

4C. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max 12 in. long by 12 in.wide by rectangular damper with plenum box/boot. The maximum size of damper/boot assembly is 12-3/8 in. long by 12-3/8 in. wide and 13 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 72 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
APPLIED APPLICATIONS INTERNATIONAL INC — Model Series SBCRD.

4AD. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max 7-11/32 in. long by 7-11/16 in. wide fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 28.5 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
AIRE TECHNOLOGIES INC — Models ITG-CRD2.

4AE. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max 9-11/16 in long by 9-1/16 in. wide fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 44.5 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
AIRE TECHNOLOGIES INC — Models SIG-CRD2

Design No. L587 (continued)

4AF. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max 10-13/32 in. long by 10-22/32 in. wide fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 56 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
AIRE TECHNOLOGIES INC — Models SMT-CRD2

4AG. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max 8-13/16 in. wide and 8-1/2 in. long fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 37.5 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
AIRE TECHNOLOGIES INC — Models GBR-CRD2

5. Batts and Blankets* — (Optional) - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 24 in. OC, no insulation shall be installed in the concealed space. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and gypsum panel membrane. When Steel Framing Members (Item 6C) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ca) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Cd). The finished rating has only been determined when the insulation is secured to the subflooring.

5A. Fiber, Sprayed* — (Dry Dense Packed 100% Borate Formulation) — (Optional) - As an alternate to Item 5, When used, the resilient channel and gypsum board attachment is modified as specified in Items 6 and 7 and wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft , in accordance with the application instructions supplied with the product. When Item 5A (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6D or 7A.
APPLEGATE GREENFIBER ACQUISITION LLC — Insulmax and SANCTUARY to be used with dry application only.

5B. Fiber, Sprayed* — (Loose Fill 100% Borate Formulation) — (Optional) - As an alternate to Items 5 and 5A. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. Wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. When Item 5B (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6D or 7A.
APPLEGATE GREENFIBER ACQUISITION LLC — Insulmaxand SANCTUARY to be used with dry application only.

5C. Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* — (Required for Item 7B, As described above in Item 5) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6H)/gypsum board (Item 7B) ceiling membrane.

5D. Foamed Plastic* — (As alternate to Item 5 - Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring.
Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2).
When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly and occur midway between the continuous furring channels. If used with a ceiling damper in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates. The finished rating when this insulation is used has not been determined.
Holcim Solutions and Products US, LLC — Sucraseal

5E. Foamed Plastic* — (As alternate to Item 5 - Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring.
Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft or 2.0 lb/ft density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints.
Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly and occur midway between the continuous furring channels. If used with a ceiling damper (Items 4 through 4C) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates. The finished rating when this insulation is used has not been determined.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+,
Walltite® MAX, Walltite® v.5, Walltite® LWP, Walltite® Plus and Enertite® Max

5F. Foamed Plastic* — (As alternate to Item 5 - Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2).
When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly and occur midway between the continuous furring channels. If used with a ceiling damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates. The finished rating when this insulation is used has not been determined.
Holcim Solutions and Products US, LLC — EasySeal.5, EasySeal ULD

5G. Foamed Plastic* — (As alternate to Item 5 - Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly and occur midway between the continuous furring channels. If used with a ceiling damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates.
The finished rating when this insulation is used has not been determined.
EVEREST SYSTEMS LLC — Opticell 0.5

6. Resilient Channels — Formed from min 25 MSG galv steel installed perpendicular to trusses. When there is no insulation installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation, Item 5 is secured to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulations are draped or installed over the resilient channel/gypsum panel ceiling membrane, the resilient channels are spaced 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. Steel Framing Members* — (Not Shown) - As an alternate to Item 6.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-Si-X secured with No. 10 x 3-1/2 in. screws. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1, RSIC-Si-X, and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. When Fiber, Sprayed (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 7.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC, Si-X, RSIC-1 (2.75), RSIC-V (2.75)

6B. Alternate Steel Framing Members — (Not Shown) - As an alternate to Item 6, main runners, cross tees, cross channels and wall angle as listed below.
a. Main Runners — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.
b. Cross Tees or Channels — Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
c. Wall Angle or Channel — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
CGC INC — Type DGL or RX.

6C. Steel Framing Members* — (Not Shown) - As an alternate to Item 6 (Not applicable to Item 7A).
a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Cb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 7.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Cd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Cd) location.
d. Steel Framing Members* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Cc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6D. Steel Framing Members* — (Not Shown) - As an alternate to Item 6 (Not applicable to Item 7A).
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members.
When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses.
Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 5B.
KINETICS NOISE CONTROL INC — Type Isomax.

ASSEMBLEY UL L587 CONTINUES ON G004

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
RATED ASSEMBLIES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G020
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:00 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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Design No. L587 (continued)

6E. Steel Framing Members* — (Not Shown) - As an alternate to Item 6.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members.
When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Not evaluated for use with Item 5B.
PLITEQ INC — Type Genie Clip

6F. Alternate Steel Framing Members* — (Not Shown) - As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to joists. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire.Additional clips are required to hold the
Gypsum Butt joints as described in Items 7 and 7A.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6G. Furring Channels — (Not Shown) - As an alternate to Item 6 - Furring channels, 7/8 in. deep by 2-9/16 in. or 2-11/16 in. or 2-23/32 in. wide at the base and 1-7/16 in. wide at the face, formed from No. 25 ga galv steel, spaced 24 in. OC perpendicular to trusses. When insulation, Item 5 is secured to the underside of the subfloor the channels are spaced 16 in. OC. When insulation, Items 5, 5A or 5B is applied over the channel/gypsum panel ceiling membrane, the channels are spaced 12 in. OC. Channels secured to trusses with double strand of No. 18 SWG galv steel wire spaced 48 in. OC. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two furring channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board.

6H. Resilient Channels — For Use With Item 7B - Formed from min 25 MSG galv. steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 5C is applied over the resilient channel/gypsum panel ceiling membrane.

6I. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 6.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 7), each extending a min of 6 in. beyond both side edges of the board.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Id) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Id) location with 16d nails or minimum 2-1/2 in. screws.
d. Steel Framing Members* — Spaced 48 in. OC. max along truss, and secured to the truss on alternating trusses with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

6J. Steel Framing Members* — (Not Shown) — As an alternate to Item 6.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Jc). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 7). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.
b. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Jc) location with 16d nails or minimum 2-1/2 in. screws.
c. Steel Framing Members* — Used to attach furring channels (Item 6Ja) to trusses. Clips spaced 48 in. OC and secured along truss webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

6K. Steel Framing Members* — (Optional - Not Shown) — Used to attach resilient channels (Item 6) to trusses (Item 2). Clips spaced 48 in. OC and secured to trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on eitherside. One edge of the extra channels will extend to an adjacent truss where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6L. Steel Framing Members* — (Not Shown) — As an alternate to Item 6 — Not for use with insulations — Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6M. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galvanized steel, 2-1/2 in. wide by 7/8 in deep. When there is no insulation installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation is secured to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, or when Item 5C, 5E or 5F is applied to underside of subflooring, the resilient channels are spaced 12 in. OC. Channels secured to trusses as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ia) to the trusses (Item 2). Clips spaced 48 in. OC on alternating trusses and secured to the bottom chord of the trusses with one 2-1/2 in. coarse drywall screw through the center grommet in accordance with the manufacturer's installation instructions. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the furring channel that supports one end of the gypsum board butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

6N. Steel Framing Members* — (Not Shown) — As an alternate to Item 6. furring channels and Steel Framing Members as described below.
a. Furring Channels — Hat channels formed of No. 25 MSG galv steel, nom. 2-23/32 in. wide by 7/8 in. deep, When there is no insulation installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation (Item 5) is secured to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, or when Item 5C, 5E or 5F is applied to underside of subflooring, the resilient channels are spaced 12 in. OC. Channels secured to trusses as described in Item b.
Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC with No. 8 x 2-1/2 in. course drywall screw through the center grommet. Furring channels are friction fitted into clips. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6O. Steel Framing Members* — (Not Shown)
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 7), each extending a min of 6 in. beyond both side edges of the board.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Ld) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Ld) location with 16d nails or minimum 2-1/2 in. screws.
d. Steel Framing Members* — Spaced 48 in. OC. max along truss, and secured to the truss on alternating trusses with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

6P. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC in lieu of 12 in. when used.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6Q. Resilient Channels — For use with American Gypsum Co. Type AG-C gypsum board only. Resilient channels, formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation (Items 5, 5A, 5B) is applied over the resilient channel/gypsum board ceiling membrane, the spacing may remain at 16 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in OC, oriented opposite each gypsum board end joint as shown in the above illustration. Additional channels shall extend 6 in beyond each side edge of board.

6R. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels (items 6 and 6H) to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the 2in screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC in lieu of 12 in. when used.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6S. Steel Framing Members* — (Not Shown) - As an alternate to Item 6H.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-Si-X secured with No. 10 x 3-1/2 in. screws. RSIC-1 and RSIC-Si-X, clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. When Fiber, Sprayed (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC, Si-X, RSIC-1 (2.75), RSIC-SI-X.

Design No. L587 (continued)

6T. Steel Framing Members* — (Not Shown) — As an alternate to Item 6H.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in.
TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 7), each extending a min of 6 in. beyond both side edges of the board.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Ld) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Ld) location with 16d nails or minimum 2-1/2 in. screws.
d. Steel Framing Members* — Spaced 48 in. OC. max along truss, and secured to the truss on alternating trusses with two, #10 x 2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

6U. Steel Framing Members* — (Not Shown) — As an alternate to Item 6H.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Jc). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 7). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.
b. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Jc) location with 16d nails or minimum 2-1/2 in. screws.
c. Steel Framing Members* — Used to attach furring channels (Item 6Ua) to trusses. Clips spaced 48 in. OC and secured along truss webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips

7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 6A) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall
be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When Steel Framing Members* (Item 6B) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long . Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long . Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 2 ft OC. When Fiber, Sprayed (Items 5A or 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
Outer
layer gypsum board secured with 1-5/8 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Outer layer shall be finished as described in Item 8. When both Steel Framing Members (Item 6A) and Fiber, Sprayed (Items 5A or 5B) are used, furring channels spaced 12 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in. long Type S bugle head screws spaced 8 in. OC along butted end joints and in the field of the board. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the underside of the truss with one clip at each end of the channel. Outer layer secured to furring channels using 1-5/8 in. long Type S screws spaced 8 in. OC and 1-1/2 in. from
the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When Steel Framing Members (Item 6C) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ca). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When Steel Framing Members (Item 6D) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced
12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 4 in. OC, and be attached to underside of the truss with one Isomax clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards with 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min 18 in. from butted side joints of base layer. Outer layer shall be finished as described in Item 8. When Steel Framing Members (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels using 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC
in the field of the board. Butted end joints shall be staggered minimum 2 ft. within the assembly. Additional furring channels constructed as per Item 6E shall be used to support each end of each gypsum board. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6E. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The outer layer boards at the butt joint shall be attached to the base layer boards with No. 10, 1-1/2 in. long drywall screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 24 in. from base layer end joints. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When Steel Framing Members (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board.
Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.
When Steel Framing Members (Item 6I) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC. When Steel Framing Members (Item 6J) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Butt joints staggered minimum 24 in. OC. channels with side joints centered along main runners. Gypsum board fastened to cross channels with 1 in. long No. 8 Type S bugle head steel screws located 1/2 in. from end joints and 1-3/4 in. from side joints and spaced 8 in. OC along the end joints and in the field. Panels fastened to cross tees with 1 in. long, Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long. Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. Gypsum board sheets screw attached to leg of wall angle with 1 in. long No. 8 Type S bugle head steel screws spaced 12 in. OC. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.
When Steel Framing Members (Item 6M) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.
When Steel Framing Members (Item 6O) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC.
AMERICAN GYPSUM CO — Type AG-C
CGC INC — Types C, IP-X2, IPC-AR
CERTAINTEED GYPSUM INC — Type LGFC-C/A
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR
USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. Gypsum Board* — As an option to Item 7 — (Not applicable with Items 5A or 5B) — Two layers of 1/2 in. or 5/8 in. thick by 4 ft wide gypsum panels, installed perpendicular to resilient channels (Item 6). The base layer of panels screw-attached to the resilient channels with 1 in. long Type S screws spaced 8 in. OC at the butt joints and 16 in. OC in the field of the panel. The face layer screw-attached to the resilient channels with 1-5/8 in.Type S screws spaced 8 in. OC. 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints located mid-span between resilient channels. When optional Steel Framing Members (Items 6A(b), 6E(b)) are used, sheets installed with long dimensions parallel with joists. Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft within the assembly, and occur midway between the continuous furring channels. At the butted end joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one clip at each end of the channel. Screw spacing along the end joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min 18 in. from butted side joints of base layer. When Steel Framing Members (Item 6B) are used, gypsum board installed with long dimension perpendicular to cross tees. The base layer of panels fastened to cross tees with 1 in. long Type S screws spaced 8 in. OC at the butt joints and 16 in. OC in the field of the panel. The face layer screw-attached to the cross tees with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints located mid-span between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC. When Steel Framing Members (Item 6Fb) are used, base layer gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring
channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip (item 6Fb) at each end of the channel. Face layer secured as described above.
AMERICAN GYPSUM CO — Type AG-C
CABOT MANUFACTURING ULC — Type C
CERTAINTEED GYPSUM INC — Type C
CGC INC — Types C, IP-X2, IPC-AR
CERTAINTEED GYPSUM INC — Type LGFC-C/A
GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C
NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-G, FSW-C, FSK-G
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C
PANEL REY S A — Type PRC, 5/8 in. Type PRX2
THAI GYPSUM PRODUCTS PCL — Type C
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR
USG BORAL DRYWALL SFZ LLC — Type C
USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7B. Gypsum Board* — (As an alternative to Items 7 and 7A, For use with Items 5C and 6H) — Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Items 7 and 7B but with max screw spacing 8 in. OC. When used with insulation (Batts and Blankets* or Fiber Sprayed*) that is installed over the resilient channel/Gypsum Board* ceiling membrane, the resilient channels may remain at 16 in. OC and not need to be reduced to 12 in. OC.
CGC INC — Type ULIX
UNITED STATES GYPSUM CO — Type ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

Design No. L587 (continued)

9. Grille — (Not Shown) — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

10. Wire Mesh — (Not Shown) — For use with Items 5A and 5B — 1 in. 20 gauge galvanized poultry netting installed between the furring channels and gypsum board. The poultry netting is attached with washers and 1/2 in. wafer head screws, spaced 24 in. OC., to the furring channels. The Fiber, Sprayed (Item 5A or 5B) is installed through cut-openings in the poultry netting, in-between trusses. The cut-openings in the poultry netting shall be staggered at a maximum of 6 ft.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-12-18

Design No. P522

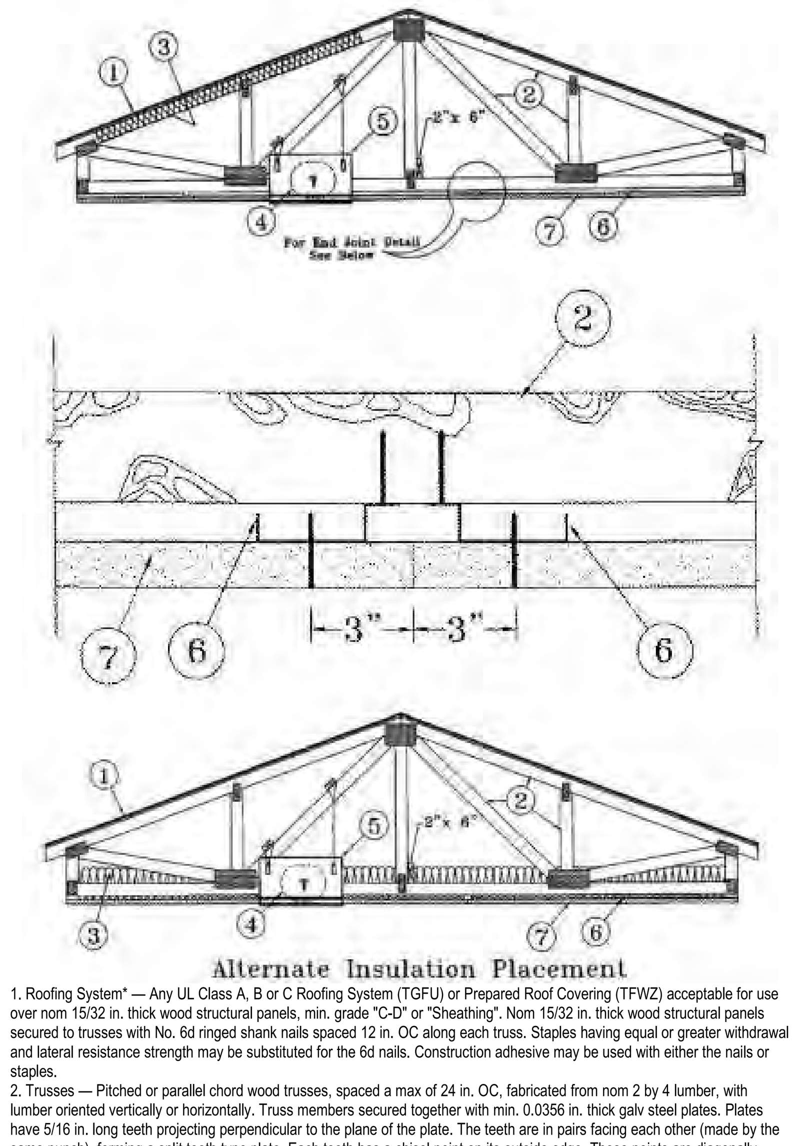
May 22, 2021

Unrestrained Assembly Rating — 1 Hr

Finish Rating — 25 Min (See Items 3 or 3A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Alternate Insulation Placement

1. Roofing System* — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.
2. Trusses — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.
3. Batts and Blankets* — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.
3A. Fiber, Sprayed* — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.
U S GREENFIBER L L C — INS735, INS745, INS750LD, and SANCTUARY for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

3B. Foamed Plastic* — (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — Sucraseal

3C. Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* — (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.
3D. Foamed Plastic* — (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft3 or 2.0 lb/ft3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

3E. Foamed Plastic* — (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — EasySeal.5

3F. Foamed Plastic* — (As alternate to Item 3 - not to be used in combination with any alternates to item 3) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft3 - 2.5 lb/ft3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 6 not evaluated for use with alternates to item 6.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4. Air Duct* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper* — Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. Alternate Ceiling Damper* — Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

Design No. P522 (continued)

5B. Alternate Ceiling Damper* — Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. Alternate Ceiling Damper* — Ceiling damper & fan. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD
5E. Alternate Ceiling Damper* — Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

5F. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

5G. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5H. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

5I. Alternate Ceiling Damper* — Ceiling damper & fan. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

5J. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

5K. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

6. Furring Channels — Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.
6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. Steel Framing Members — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A.
a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.
d. Steel Framing Members* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6D. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.
b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6G. Resilient Channels — For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.
6H. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

Design No. P522 (continued)

7. Gypsum Board* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.

When Steel Framing Members* (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.
When Steel Framing Members (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate Steel Framing Members* (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When Steel Framing Members (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. Gypsum Board* — For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members* (Item 6D) when Batts and Blankets* (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. Gypsum Board* — For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. Alternate Ceiling Membrane — Not Shown.
9. Netting — Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
RATED ASSEMBLIES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G021

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:01 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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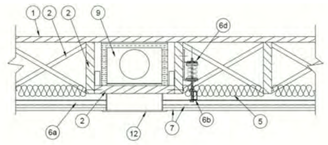
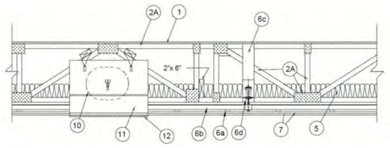
Design No. L581

December 18, 2024

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 42 Min
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





Floor Systems — The flooring system shall consist of the following:
Subfloorring — Min 3/4 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood to be perpendicular to the joists or trusses with end joints staggered 4 ft. Plywood secured to joists or trusses with construction adhesive and No. 8d cement coated nails spaced 12 in. OC along each truss. Adhesive applied as 3/8 in. diam bead to top chord of joists or trusses and grooved edges of plywood.

1A. Floor Topping Systems — (Optional not shown)

System No. 1

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement

Metal Lath — (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

System No. 2

Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, SiteMix, and Treadstone Advantage

Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 3

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 4

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 250 and FIRM-FILL SCM 250+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 400 and FIRM-FILL SCM 400+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 750 and FIRM-FILL SCM 750+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.(HSM1.02)

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II. (HSM2.06)

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) or greater floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 5

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance

See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

Design No. L581 (continued)

System No. 6

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — Types GSL M3.4, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 7

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor.
ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and
EM.750S.

System No. 8

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 9

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to

Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. Wood Joists — Min 2 by 10, spaced max 16 in. OC and effectively fireblocked in accordance with local codes. Cross bridging shall be min 1 by 3 in. or min 2 by 10 solid blocking. When ceiling damper (Item 9) is employed, wood 2 by 4 in. horizontal bridging used in lieu of cross bridging and secured between joists with nails.

2A. Trusses — As an alternate to Item 2, Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

2B. Alternate to Item 2: Structural Wood Members — Min 9-1/2 in. deep "I" shaped wood joists spaced at a max of 24 in. OC. Joists shall conform to ICC-ES ESR-1153 Report. Joist top and bottom chords minimum 1-3/8 in. deep by 2.3 in. wide and constructed of either Microllam laminated veneer lumber (LVL) or TimberStrand laminated strand lumber (LSL). Webs constructed of minimum 3/8 in. thick Performance Plus OSB, PS2, Exposure 1. Installation shall be in accordance with manufacturers published literature.

3. Deleted.

4. Deleted

5. Batts and Blankets* — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Nom 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6a) and gypsum board ceiling membrane, and friction-fitted between joists or trusses and Steel Framing Members (Item 6d).

6. Steel Framing Members* —
a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to joists or trusses and Cold Rolled Channels (Item 6b). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 7.

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists or trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6d). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss or joist (Items 2A) at the top andbottom of the blocking at each Steel Framing Member (Item 6d) location.

d. Steel Framing Members* — Hangers spaced 48 in. OC. max along truss or joist, and secured to the joist or Blocking (Item 6c) on alternating joists or trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of joists or trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW

7. Gypsum Board* — Two layers of nom 5/8 in. thick, 4 ft wide gypsum board panels are installed with long dimensions perpendicular to furring channels (Item 6a). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. Outer layer shall be finished as described in Item 8.
AMERICAN GYPSUM CO — Type AG-C

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. Gypsum Board* (As an alternative to Item 7) — Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Item 7 with max screw spacing 8 in. OC.
CGC INC — ULIX

UNITED STATES GYPSUM CO — ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to outer layer joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all outer layer joints. As an alternate, nom 3/32 in. thick veneer plastermay be applied to the entire surface of gypsum board.

9. Ceiling Damper* — (Optional, For use with Item 2 only, Not for use with Item 2A) — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 12) shall be installed in accordance with installation instructions.
AIR KING VENTILATION PRODUCTS — Series FRAS, Series FRAK, Series FRAKV

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(-A), C-RD-HC(-A)

JAMIL ALI NASSER AL-ZADJALI FOR INDUSTRY— Models C-S/R-HC(-A), C-RD-HC(-A)

BADR & ASFOUR COMPANY FOR ENGINEERING AND METAL INDUSTRIES — Models C-S/R-HC(-A), C-RD-HC(-A)

METAL-FAB INC — Models MSCDHC, MRCDHC

BRISK MFG INC — Model BMI-50-CRD-S/R-WT

PRICE INDUSTRIES LTD — Models CD-S/R-HC, CD-RD-HC

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(-A), C-RD-HC(-A)

10. Air Duct* — (Optional, For use with Item 2 and 2A only) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

Design No. L581 (continued)

11. Ceiling Damper* — (Optional, For use with Item 2A only) — For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 12) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521.

11A. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Max nom area shall be 196 sq in. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 12) not to exceed 144 in. shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

11B. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 12) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

11C. Alternate Ceiling Damper* — (Optional, For use with Item 2A only.) For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 12) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

11D. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

11E. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

11F. Alternate Ceiling Damper* — (Optional, For use with Item 2A only.) Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

11G. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

11H. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

11I. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 12) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

11J. Alternate Ceiling Damper* — (Optional, For use with Item 2A only) — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

11K. Alternate Ceiling Damper* — (Optional, For use with Item 2A only.) Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 12) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

11L. Alternate Ceiling Damper* — (Optional, For use with Item 2A and 10 only) — For use with min 18 in. deep trusses. Max nom 21 in. long by 18 in. wide, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 14 in. high (inner dimension) fabricated from either galvanized steel or min 1 in. thick Listed Duct Board bearing the UL Listing Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-1WT

11M. Alternate Ceiling Damper* — (Optional, For use with Item 2A and 10 only) — For use with min 18 in. deep trusses. Max nom 12 in. long by 12 in. wide with an 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-2WT

11N. Damper* — (Optional, For use with Item 2A and 10 only) For use with min 18 in. deep trusses. Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-310WT

11O. Damper* — (Optional, to be used with Item 2A and 10 only) For use with min 18 in. deep trusses. Max nom 12-3/8 in. long by 14-1/2 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 90 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-320WT

11P. Alternate Ceiling Damper* - (Optional, to be used with Item 2A and 10 only) For use with min 18 in. deep trusses. Maximum 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom. 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.

NAILOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0763

SAFE AIR DOWCO — 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0463-FB, 0457-EB, 0463-GB, 0463

11Q. Alternate Ceiling Damper* — (Optional, to be used with Item 2A and 10 only) For use with min 18 in. deep trusses. Max nom 10-3/8 in. long by 10-3/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 54 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP — Model CRD-300WT

12. Grille — Grille installed in accordance with the installation instructions provided with the ceiling damper.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
RATED ASSEMBLIES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G022

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:02 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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Design No. U356

March 06, 2018

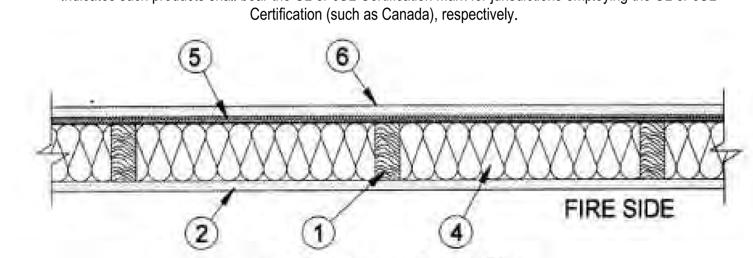
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)

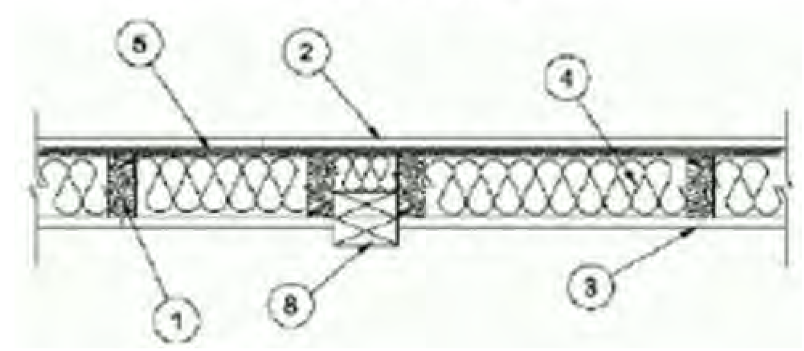
Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



HORIZONTAL SECTION



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
When Item 7, 7B, 7C or 7D Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. Gypsum Board* — (As an alternate to Item 2, Not Shown) — Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the Gypsum Board* (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2B. Gypsum Board* — (As an alternate to Item 2, Not Shown) — 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1, Easi-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C — Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS.

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2C. Gypsum Board* — (As an alternate to Item 2, Not Shown) — For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in.and 4 in. from edges of board. Finish Rating is 25 min.
ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type Blueglass Exterior Sheathing

GEORGIA-PACIFIC GYPSUM L L C — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS

2D. Gypsum Board* — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.
NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

2E Gypsum Board* — (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

2F. Gypsum Board* — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2G. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2H. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2I. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

2J. Gypsum Board* — (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1(finish rating 26 min), Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2, Type EGRG or GlasRoc or GlasRoc Sheathing (finish rating 23 min)

Design No. U356 (continued)

3. Joints and Fastener Heads — (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).

See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4B. Fiber, Sprayed* — As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft 3.

NU-WOOL CO INC — Cellulose Insulation

4C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

4D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. Mineral and Fiber Boards* — As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. Exterior Facings — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. Vinyl Siding — Molded Plastic* — Contoured rigid vinyl siding having a flame spread value of 20 or less.
See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers.

B. Particle Board Siding — Hardboard exterior sidings including patterned panel or lap siding.

C. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. Cementitious Stucco — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. Brick Veneer — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. Exterior Insulation and Finish System (EIFS) — Nom 1 in. Foamed Plastic* insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See Foamed Plastic (BRYX and CCVW) categories for names of Classified companies.

G. Siding — Aluminum or steel siding attached over sheathing to studs.

H. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. Wall and Partition Facings and Accessories* — Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.

ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone

6A. Building Units* — As an alternate to Exterior Facing Item 6 — Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements.

CENTRIA, A DIVISION OF NCI GROUP, INC — Types Formawall Dimension Series and Formawall Graphix Series

KINGSPAN INSULATED PANELS INC — Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.

7. Steel Framing Members* — (Optional, Not Shown) — Furring Channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

7A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax.

7B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

7C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

7D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

8. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Design No. U341

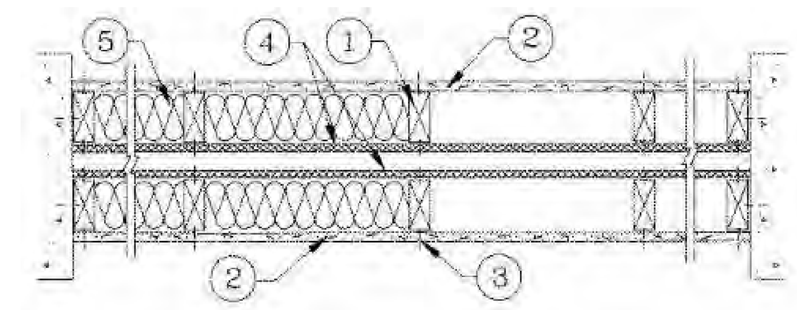
March 06, 2018

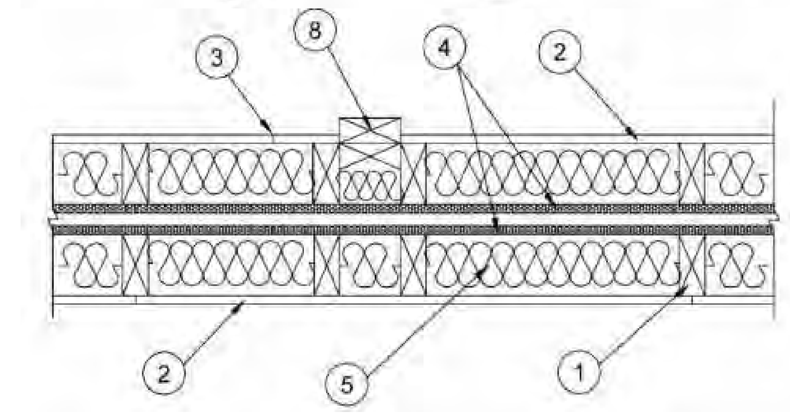
Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





HORIZONTAL SECTION

1. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick 4 ft wide. Gypsum board or lath applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When Steel Framing Members* (Item 6-6C) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. Gypsum Board* — (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. Gypsum Board* — (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the Gypsum Board* (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. Gypsum Board* — (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. Gypsum Board* — (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. Gypsum Board* — (As an alternate to Items 2 through 2D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. Gypsum Board* — (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.
NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

2G. Gypsum Board* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. Gypsum Board* — (As an alternate to Items 2 through 2G) — Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2I. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW.

2K. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. Joints and Nailheads — Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. Sheathing — (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick Mineral and Fiber Boards*.
See Mineral and Fiber Boards (CERZ) category for names of Classified companies.

Design No. U341 (continued)

5. Batts and Blankets* — 3-1/2 in. max thickness glass or mineral fiber batt insulation. Optional when sheathing (Item 4) is used on both halves of wall.

See Batts and Blankets (BZJZ) category for list of Classified companies.

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

6 Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.
B. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* — Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

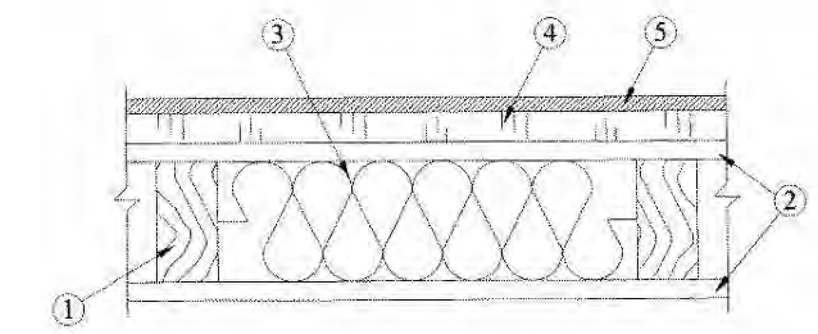
Design No. U364

May 08, 2024

Bearing Wall Rating — 1 Hr.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Wood Studs** — Min. nom 2 by 4 in., spaced 16 in. OC.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Nom5/8 in. thick (min) 4 ft wide bearing the UL Classification Marking for Fire Resistance applied vertically. Attached to studs with 6d cement coated nails or 1-7/8 in. long No. 6 buglehead dry wall screws spaced 7 in. OC at the edges and in the fields. Vertical joints located over studs. Joints covered with paper tape and joint compound. Fastener heads covered with joint compound.
AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board*** — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

2B. **Wall and Partition Facings and Accessories*** — (As an alternate to Item 2 and 2A) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2C. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, Type AG-C, LightRoc.

3. **Batts and Blankets*** — Min. 3-1/2 in. glass fiber or mineral wool batts placed to fill cavity of wall.
See **Batts and Blankets*** (BZJZ) Category for names of Classified companies.

4. **Foamed Plastic*** — Max. 2 in. thick rigid polystyrene insulation attached to studs with 2-1/2 in. long galvanized roofing nails.
OWENS CORNING SCIENCE AND TECHNOLOGY, LLC

DUPONT DE NEMOURS, INC. — Type Styrofoam

4A. **Foamed Plastic*** — As an alternate to Item 4, maximum 2 in. thick Polyisocyanurate foamed plastic insulation boards Classified in accordance with BRYX and / or CCVW, attached to studs with 3 in. long galvanized roofing nails.
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

Holcim Solutions and Products US, LLC — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci-Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG" and "Xci Foil", "Xci CG NH", "Xci Foil NH"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4B. **Building Units*** — As an alternate to Items 4 or 4A, max. 2-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in., with a facer on one side and with oriented strand board or plywood on the other, attached to studs with 3- in. long galvanized roofing nails.
ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci NB" and "Xci Ply"

LAMINATORS INC — Type "Omega ci"

4C. **Building Units*** — As an alternate to Items 4, 4A or 4B, max. 2-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in., with a facer on one or both sides and bonded to fiberboard, oriented strand board or plywood on one side, attached to studs with min. 8d nails or min. 2-1/2 in. long Type W screws.
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types Thermasheath-SI, ECOBASE ci, ThermaBase-CI, ECOMAXci FR Ply, "ECOMAXci Ply"

4D. **Building Units*** — As an alternate to Items 4, 4A - 4C, consisting of 7/16-in. thick PS-2 rated oriented strand board (OSB) as cover board bonded to rigid 1/2 in. to 2 in. thick polyisocyanurate insulation, installed vertically with vertical joints located over studs. Fastened to studs with min. 10d galvanized nails, spaced 6 in. OC at edges and 12 in. OC in the field. Length of nails to be such that they engage with studs minimum 1-3/8 in.
HUBER ENGINEERED WOODS L L C — ZIP System ® R Sheathing

4E. **Building Units*** - As an alternate to items 4, 4A – 4D – Nominal 7/16 in. thick, performance category PS-2 compliant OSB bonded on one side to rigid 1/2 in. to 1-1/2 in. thick extruded polystyrene insulation, installed vertically or horizontally with joints aligned over studs or blocking. Fasten with min. 0.131 in diameter framing nails, spaced a maximum of 6 in OC at edges and 12 in OC in the field. Length of nails shall extend 1-1/2 in into the framing. Panel may be installed with foam against or foam away from framing.

LOUISIANA -PACIFIC CORP - Type LP NovaCore® Thermal Insulated Sheathing

5. **Exterior Facings** — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the Foamed Plastic* or Building Units*:
A. **Vinyl Siding Molded Plastic*** — Contoured rigid vinyl siding having a flame spread value of 20 or less.
See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers.

B. **Particle Board Siding** — Hardboard exterior sidings including patterned panel or lap siding.

C. **Wood Structural Panel or Lap Siding** — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. **Cementitious Stucco** — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. **Brick** — Brick veneer, meeting the requirements of local code agencies. Brick veneer attached to the studs with corrugated metal wall ties attached to each stud with 8d cement coated nails, every sixth course of bricks. When brick veneer is used, the gypsum board (item 2) on the exterior side may be eliminated.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
RATED ASSEMBLIES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G023

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:03 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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Design No. U305

October 02, 2019

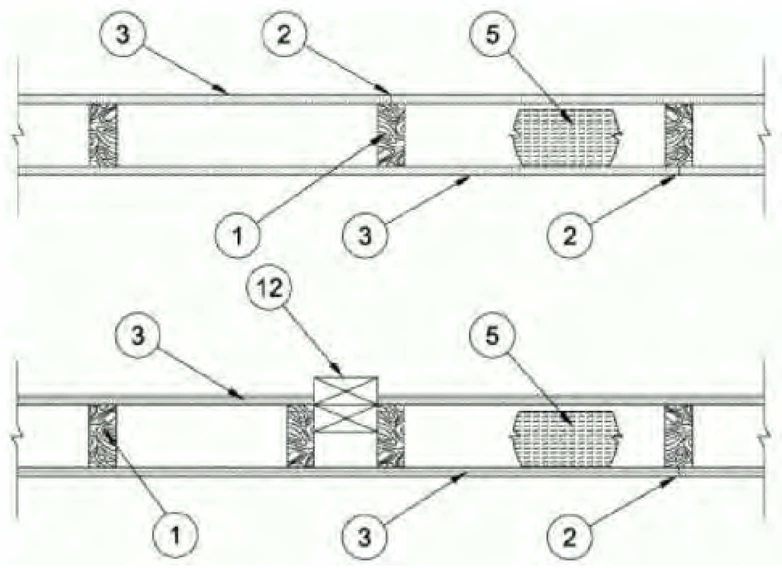
Bearing Wall Rating — 1 Hr

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, Steel Framing Members*.
When Items 6, 6B, 6C, 6D, 6E, or 6F, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C., Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min)
CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. Gypsum Board* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. Gypsum Board* — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

Design No. U305 (continued)

3D. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. Gypsum Board* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. Gypsum Board* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUM CO — Type SBWB

3I. Gypsum Board* — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. Gypsum Board* — (As an alternate to Item 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured per item 3 or 3A.

CERTAINTEED GYPSUM INC — Type SilentFX

3K. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. Gypsum Board* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. Gypsum Board* — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. Wall and Partition Facings and Accessories* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.

NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. Gypsum Board* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. Gypsum Board* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts - Type AFB, min. density 1.69 pcf / 27.0 kg/m3

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD or INS773LD.

U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

Design No. U305 (continued)

5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3.

APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels - Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above — Nailheads Shall be covered with joint compound.
B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

Design No. U305 (continued)

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

BLUE RIDGE FIBERBOARD INC — SoundStop

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

BLUE RIDGE FIBERBOARD INC — SoundStop

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Design No. U338

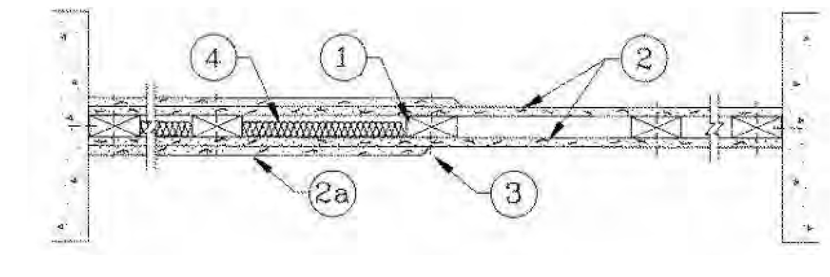
Janury 30, 2024

Nonbearing or Bearing Wall Rating — 1 HR.
(See Items 2 and 2A)

Finish Rating — One Layer of Wallboard — Min. 20 Min.
Two Layers of Wallboard — Min. 59 Min

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Design No. U338 (continued)

HORIZONTAL SECTION

1. **Wood Studs** — Nom 2 by 3 or 2 by 4 in., flat wise, spaced 24 in. O.C. max, effectively firestopped.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** For Nonbearing Wall rating — One layer of 5/8 in. thick, gypsum board secured to each side of studs. Gypsum board applied horizontally or vertically, unless specified below, with vertical joints centered on studs, and nailed to studs and bearing plates 7 in. O.C. with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board*** — Same as Item 2. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft wide wallboard each side of studs. Attached to studs over inner layer 8 in. O.C. max, with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam and 9/32 in. diam head.

2B. **Gypsum Board*** — (As an alternate to Item 2, not shown) - For Nonbearing Wall rating - Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the Gypsum Board* (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. **Gypsum Board*** — Same as Item 2B. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2D. **Gypsum Board*** — (As an alternate to Item 2, not shown) - For Nonbearing Wall rating - 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CABOT MANUFACTURING ULC — Type X, 5/8 Type X

CERTAINTEED GYPSUM INC — Type C, Type X-1, or Type SilentFX

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2E. **Gypsum Board*** — Same as Item 2D. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type C, Type X-1

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2F. **Gypsum Board*** — (As an alternate to Item 2, not shown) - For Nonbearing Wall rating - 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 3. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2G. **Gypsum Board*** — Same as Item 2F. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2H. **Gypsum Board*** — (As an alternate to Items 2 through 2H) - 5/8 in. thick, 4 ft. wide, paper surfaced applied horizontally or vertically and secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.
CERTAINTEED GYPSUM INC — Type SilentFX

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

NATIONAL GYPSUM CO — Type SBWB

2I. **Gypsum Board*** — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2 or 2A.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

2J. **Wall and Partition Facings and Accessories*** — (As an alternate to Items 2 through 2I) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2 or 2A.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

2K. **Gypsum Board*** — (As an alternate to 5/8 in. Type FSW in Item 2) -- 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW

2L. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. **Joints and Nail Heads** — Gypsum board joints of outer layer covered with paper tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. **Batts and Blankets*** — (Optional) — Max 1 in. thickness glass or mineral fiber batt insulation.
See **Batts and Blankets*** (BZJZ) category for names of Classified companies.

4A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

4B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

4C. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

4D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

RATED ASSEMBLIES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G024

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:04 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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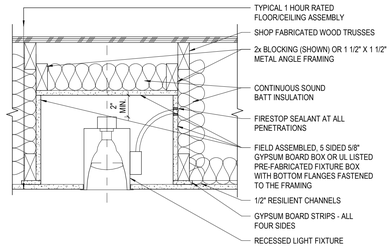
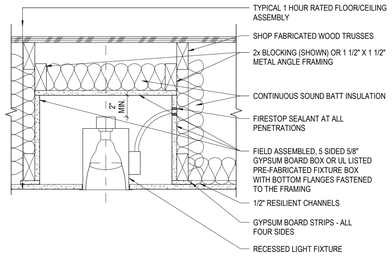
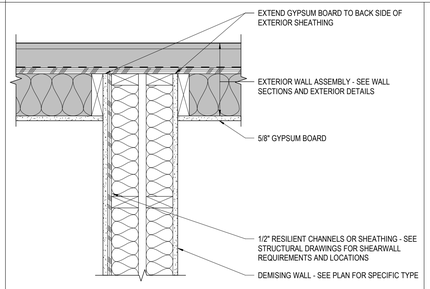


NON-RATED LIGHT FIXTURE

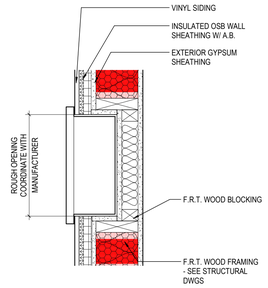


RATED LIGHT FIXTURE

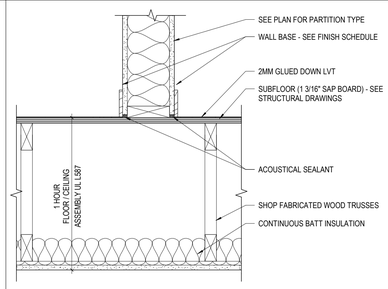
5 DETAIL RECSSED LIGHT @ RATED FLOOR/CEILING ASSEMBLY
1 1/2" = 1'-0"



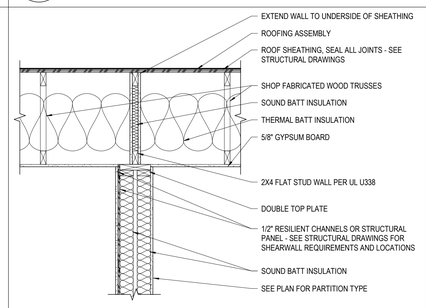
9 DETAIL DEMISING WALL @ EXT. WALL
1 1/2" = 1'-0"



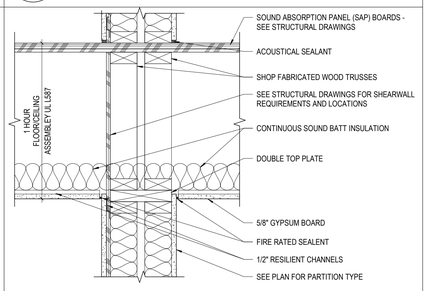
4 DETAIL FIRE EXTINGUISHER @ BREEZEWAY
1 1/2" = 1'-0"



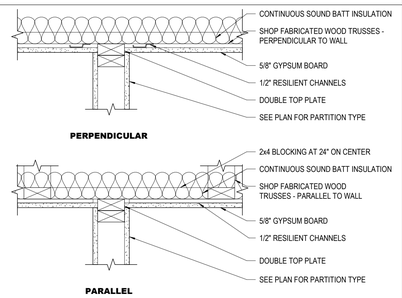
12 DETAIL WALL TO FLOOR
1 1/2" = 1'-0"



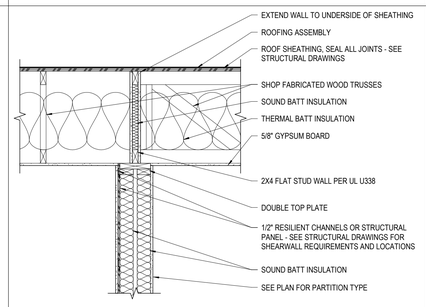
8 DETAIL ROOF FRAMING @ DEMISING WALL
3/4" = 1'-0"



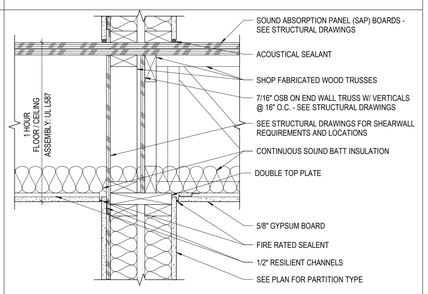
3 DETAIL DEMISING WALL AT FLOOR / CEILING
1 1/2" = 1'-0"



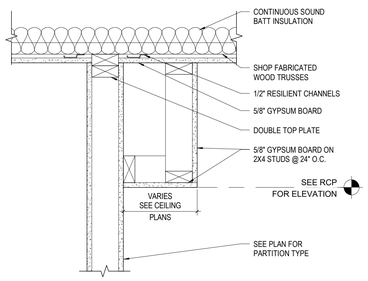
11 DETAIL TYP UNIT WALL @ RATED FLOOR/CEILING
1 1/2" = 1'-0"



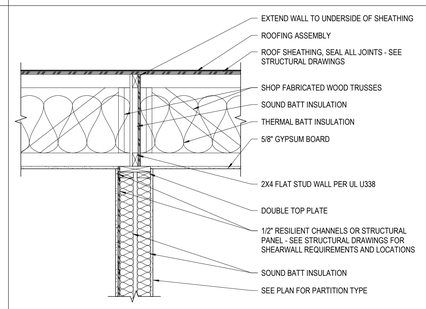
7 DETAIL ROOF FRAMING @ DEMISING WALL
3/4" = 1'-0"



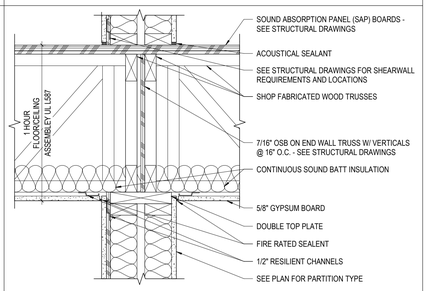
2 DETAIL DEMISING WALL AT FLOOR / CEILING
1 1/2" = 1'-0"



10 DETAIL SOFFIT @ RATED FLOOR/CEILING ASSEMBLY
1 1/2" = 1'-0"



6 DETAIL ROOF FRAMING @ DEMISING WALL
3/4" = 1'-0"



1 DETAIL DEMISING WALL AT FLOOR / CEILING
1 1/2" = 1'-0"

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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FRAMING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

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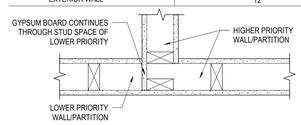
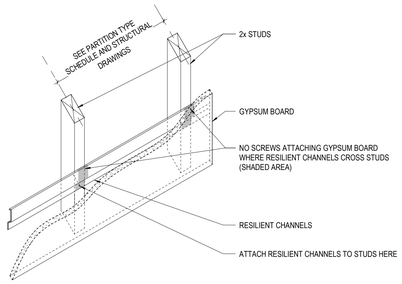
WALL/PARTITION PRIORITY LEGEND

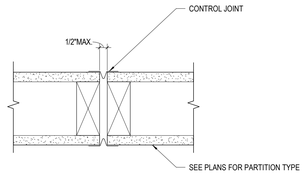
WALL/PARTITION FIRE RATING	PRIORITY
4 HOUR FIRE WALL	1
3 HOUR FIRE WALL	2
2 HOUR FIRE WALL	3
2 HOUR FIRE BARRIER	4
2 HOUR SMOKE BARRIER	5
1 HOUR FIRE BARRIER	6
1 HOUR SMOKE BARRIER	7
1 HOUR FIRE PARTITION	8
SMOKE PARTITION	9
ACOUSTICAL PARTITION	10
NON RATED PARTITION	11
EXTERIOR WALL	12



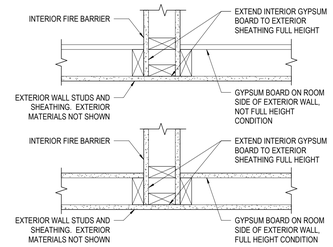
444 DETAIL PARTITION PRIORITY DIAGRAM
1 1/2" = 1'-0"



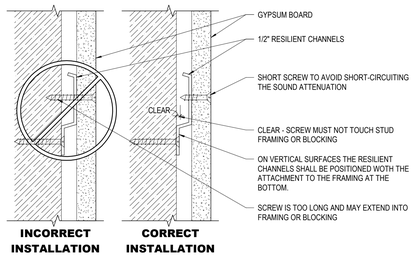
DGD DETAIL RESILIENT CHANNELS AT WALLS
1 1/2" = 1'-0"



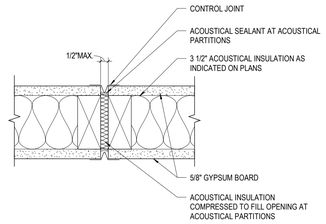
7777 DETAIL GYPSUM ASSEMBLY CONTROL JOINT
3" = 1'-0"



33 DETAIL FIRE BARRIER AT EXTERIOR WALL
1 1/2" = 1'-0"



DDS DETAIL RESILIENT CHANNEL INSTALLATION
6" = 1'-0"



666 DETAIL CONTROL JOINT IN 1 HOUR PARTITION
3" = 1'-0"

CONTRACTOR TO PROVIDE THE MORE RESTRICTIVE FASTENING OF THE EXTERIOR INSULATED SHEATHING - BETWEEN THE RESIDENTIAL CODE BELOW / THE SHEATHING MANUFACTURER'S REQUIREMENTS / & THE STRUCTURAL ENGINEER'S DRAWINGS, NOTES (ESPECIALLY AT ANY SHEAR WALLS).
AT THE THIN STONE CLADDING SYSTEM. FINAL SELECTED STONE SHOP DRAWINGS ARE REQUIRED TO CONFIRM WEIGH OF STONE & SETTING BED.

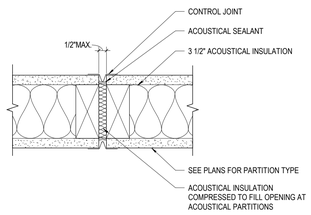
TABLE R703.15.1

CLADDING MINIMUM FASTENING REQUIREMENTS FOR DIRECT ATTACHMENT OVER FOAM PLASTIC SHEATHING TO SUPPORT CLADDING WEIGHT[a]

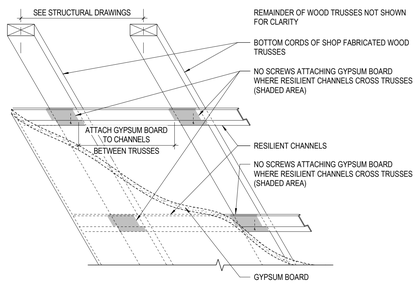
CLADDING FASTENER THROUGH FOAM SHEATHING[b]	CLADDING FASTENER TYPE AND MINIMUM SIZE[c]	CLADDING FASTENER VERTICAL SPACING (inches)	MAXIMUM THICKNESS OF FOAM SHEATHING[d] (inches)									
			16" o.c. Fastener Horizontal Spacing					24" o.c. Fastener Horizontal Spacing				
			Cladding Weight:					Cladding Weight:				
			3 psf	11 psf	15 psf	18 psf	25 psf	3 psf	11 psf	15 psf	18 psf	25 psf
Wood framing (minimum 1 1/4-inch penetration)	0.113" diameter nail	6	2.00	1.45	1.00	0.75	DR	2.00	0.85	0.55	DR	DR
		8	2.00	1.00	0.65	DR	DR	2.00	0.55	DR	DR	DR
		12	2.00	0.55	DR	DR	DR	1.85	DR	DR	DR	DR
	0.120" diameternail	6	3.00	1.70	1.15	0.90	0.55	3.00	1.05	0.65	0.50	DR
		8	3.00	1.20	0.80	0.60	DR	3.00	0.70	DR	DR	DR
		12	3.00	0.70	DR	DR	DR	2.15	DR	DR	DR	DR
	0.131" diameter nail	6	4.00	2.15	1.50	1.20	0.75	4.00	1.35	0.90	0.70	DR
		8	4.00	1.55	1.05	0.80	DR	4.00	0.90	0.55	DR	DR
		12	4.00	0.90	0.55	DR	DR	2.70	0.50	DR	DR	DR
	0.162" diameter nail	6	4.00	3.55	2.50	2.05	1.40	4.00	2.25	1.55	1.25	0.80
		8	4.00	2.55	1.80	1.45	0.95	4.00	1.60	1.10	0.85	0.50
		12	4.00	1.60	1.10	0.85	0.50	4.00	0.95	0.60	DR	DR

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa, 1 pound per square inch = 6.895 kPa.
DR = Design Required.
o.c. = On Center.
a. Wood framing shall be Spruce-pine-fir or any wood species with a specific gravity of 0.42 or greater in accordance with AWC NDS.
b. The thickness of wood structural panels complying with the specific gravity requirement of Note a shall be permitted to be included in satisfying the minimum penetration into framing. For cladding connections to wood structural panels, refer to Table R703.3.3. For brick veneer tie connections to wood structural panels, refer to Table R703.8.4(2).
c. Nail fasteners shall comply with ASTM F1667, except nail length shall be permitted to exceed ASTM F1667 standard lengths.
d. Foam sheathing shall have a minimum compressive strength of 15 psi in accordance with ASTM C578 or ASTM C1289.

1 DETAIL MINIMUM CODE REQUIRED FASTEN FOR INSULATED SHEATHING
12" = 1'-0"



5555 DETAIL GYPSUM ASSEMBLY CONTROL JOINT
3" = 1'-0"



ASDAGASD DETAIL RESILIENT CHANNELS AT CEILING
6" = 1'-0"

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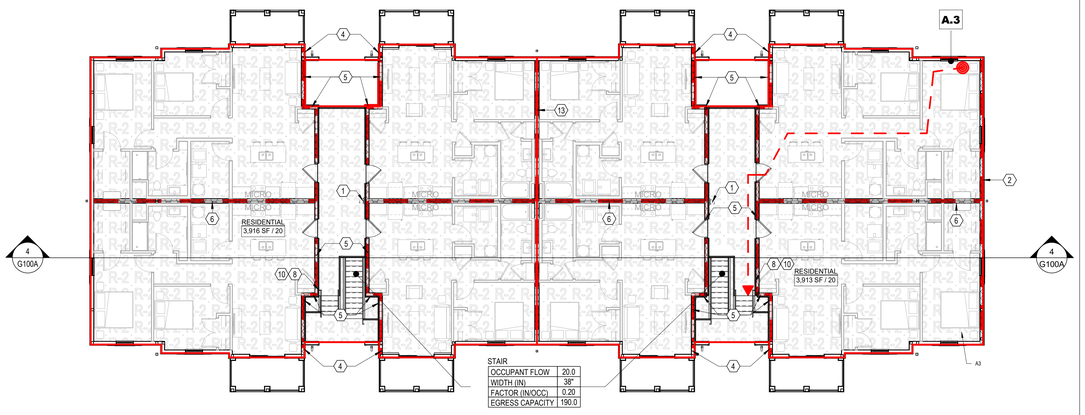
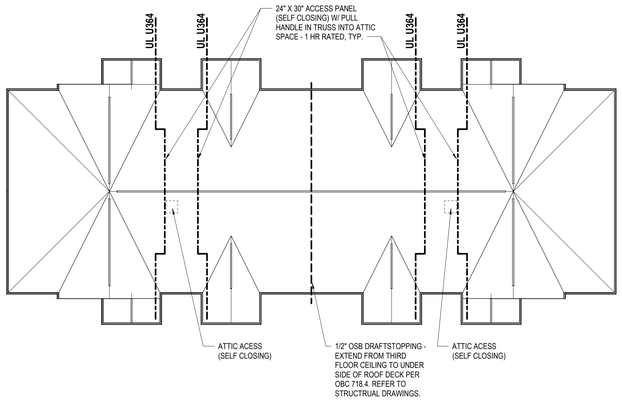
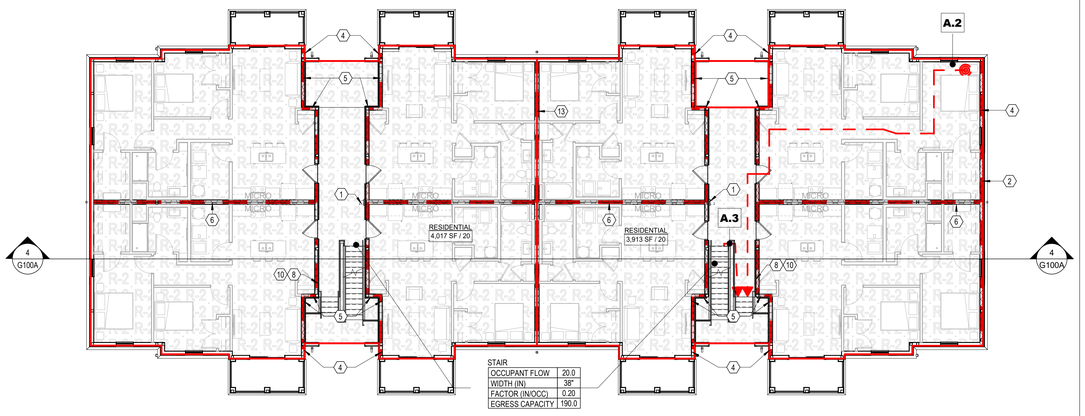
OCCUPANCY LIFE SAFETY (BUILDING A)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	4,015 SF	200	20
RESIDENTIAL 2b - APARTMENTS	4,017 SF	200	20
	8,033 SF		40
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	3,913 SF	200	20
RESIDENTIAL 2b - APARTMENTS	4,017 SF	200	20
	7,930 SF		40
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	3,913 SF	200	20
RESIDENTIAL 2b - APARTMENTS	3,916 SF	200	20
	7,829 SF		40
GRAND TOTAL	23,792 SF		120



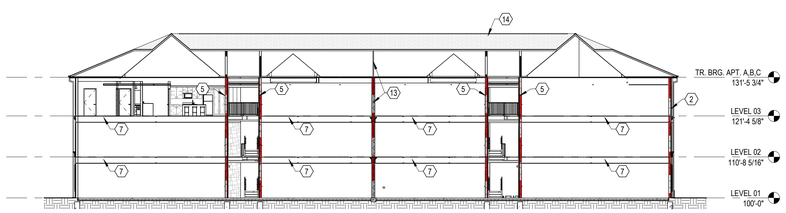
3 PLAN BLDG A-LEVEL 03
3/32" = 1'-0"



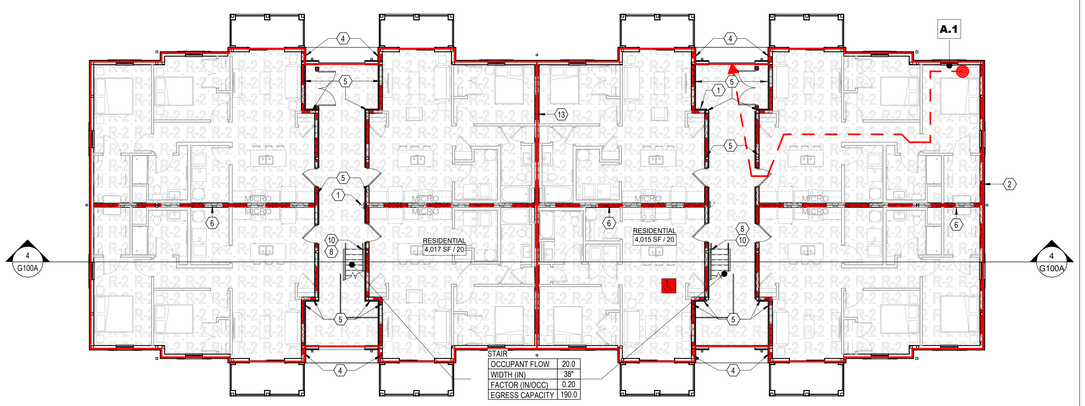
5 PLAN BLDG A - ROOF
1/16" = 1'-0"



2 PLAN BLDG A-LEVEL 02
3/32" = 1'-0"



4 SECTION LIFE SAFETY - BLDG A
1/16" = 1'-0" REF: 1 / 100-A



1 PLAN BLDG A-LEVEL 01
3/32" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L587
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL- UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL P522
15. EXTERIOR WALL TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U356

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR

OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200

- OCCUPANT LOAD
- AREA SF
- PATH OF EGRESS TRAVEL
- A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

- -2 R-2 — RESIDENTIAL R-2
- -2 S-2 — STORAGE S-2
- A-2 A — ASSEMBLY A-2
- A-3 A — ASSEMBLY A-3
- U — UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	78'-0"	20'-0"	125'-0"	COMMON	98'-0"
A.3	84'-1"	40'-0"	125'-0"	COMMON	124'-1"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	86'-5"	20'-0"	125'-0"	COMMON	106'-5"
B.3	104'-2"	20'-0"	125'-0"	COMMON	124'-2"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	76'-3"	0"	125'-0"	COMMON	76'-3"
C.3	84'-10"	40'-0"	125'-0"	COMMON	124'-10"
D1	56'-7"	0"	125'-0"	COMMON	56'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	31'-10"	0"	125'-0"	COMMON	31'-10"
G2	31'-10"	0"	125'-0"	COMMON	31'-10"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUS.OH.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LIFE SAFETY

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G100A
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:11 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D-print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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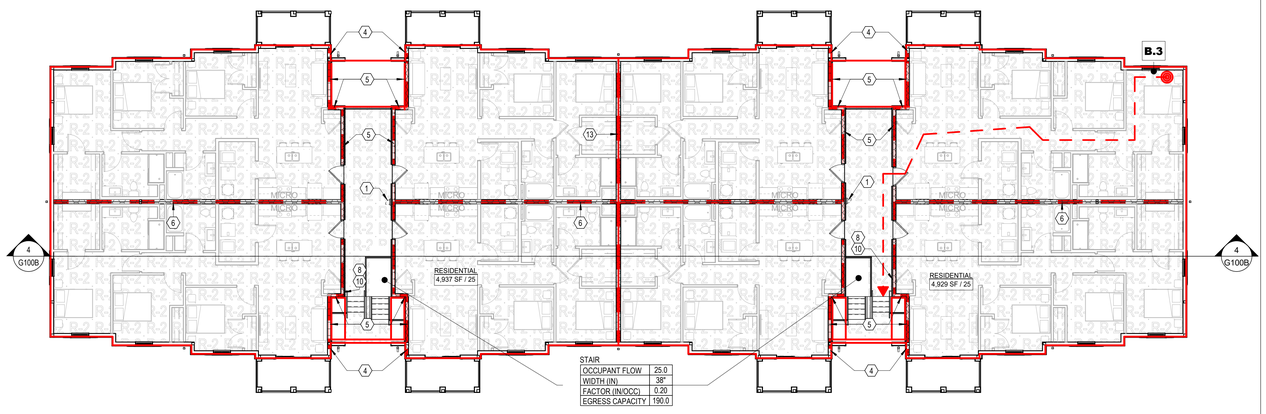
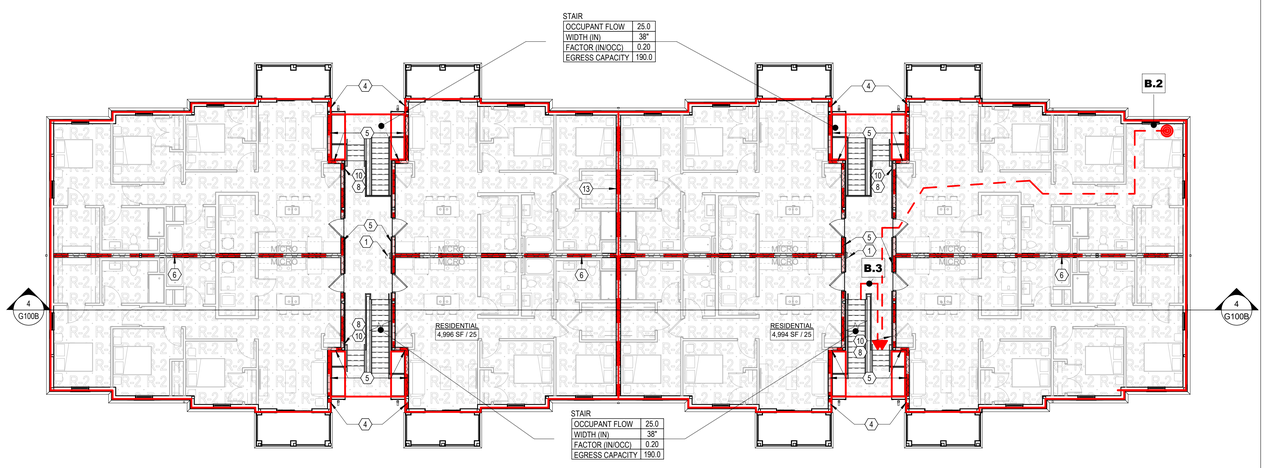
OCCUPANCY LIFE SAFETY (BUILDING B)

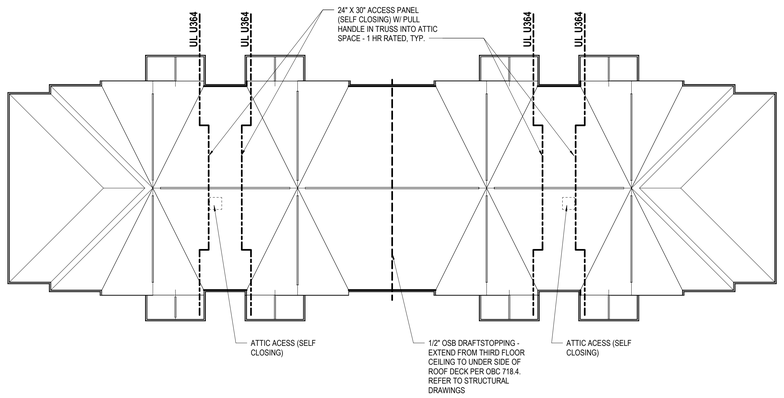
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	**5,072 SF**	**200**	**25**
RESIDENTIAL 2b - APARTMENTS	**5,073 SF**	**200**	**25**
	10,145 SF		**50**
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	**4,994 SF**	**200**	**25**
RESIDENTIAL 2b - APARTMENTS	**4,996 SF**	**200**	**25**
	9,990 SF		**50**
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	**4,929 SF**	**200**	**25**
RESIDENTIAL 2b - APARTMENTS	**4,937 SF**	**200**	**25**
	9,866 SF		**50**
GRAND TOTAL	**30,000 SF**		**150**



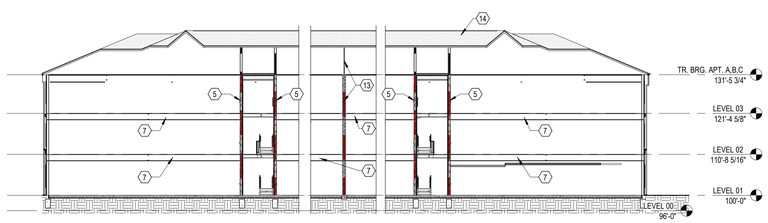
3 PLAN BLDG B-LEVEL 03
3/32" = 1'-0"



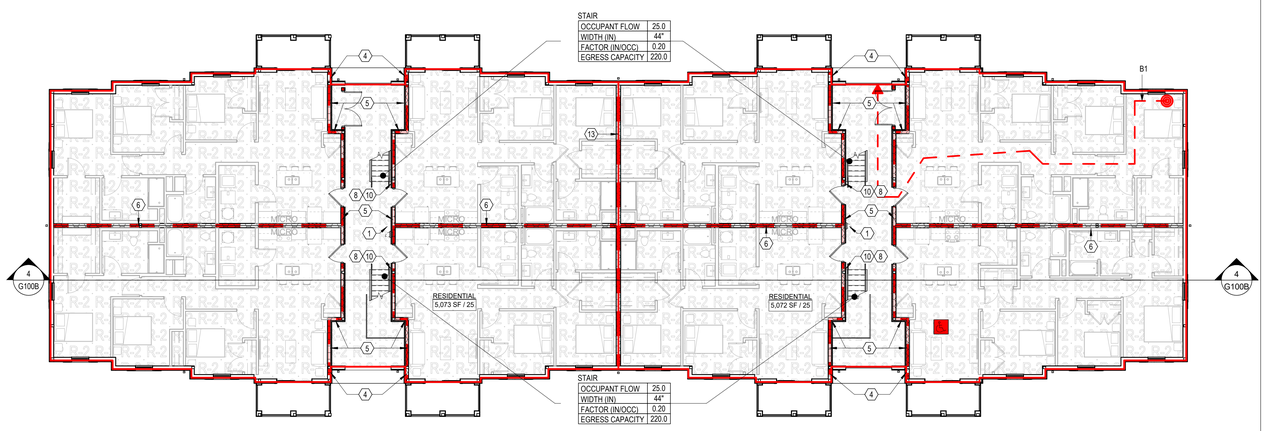
2 PLAN BLDG B-LEVEL 02
3/32" = 1'-0"



5 PLAN BLDG B - ROOF
1/16" = 1'-0"



4 SECTION LIFE SAFETY - BLDG B
1/16" = 1'-0" REF: 1 / A103B



1 PLAN BLDG B-LEVEL 01
3/32" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL I587
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL P522
15. EXTERIOR WALL TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U356

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR

OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200 — OCCUPANT LOAD
AREA SF

PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

- -2 R-2 RESIDENTIAL R-2
- -2 S-2 STORAGE S-2
- A-2 A ASSEMBLY A-2
- A-3 A ASSEMBLY A-3
- U UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	78'-0"	20'-0"	125'-0"	COMMON	98'-0"
A.3	84'-1"	40'-0"	125'-0"	COMMON	124'-1"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	86'-5"	20'-0"	125'-0"	COMMON	106'-5"
B.3	104'-2"	20'-0"	125'-0"	COMMON	124'-2"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
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D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
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FOR
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SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LIFE SAFETY

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G100B
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/2/2025 1:58:23 PM
FILE INFO: ...\Desktop\23446_CMHA Refugee Rd Housing D\rpmt - R23\23446_CMHA Refugee Rd Housing_B\CH_R23.rvt

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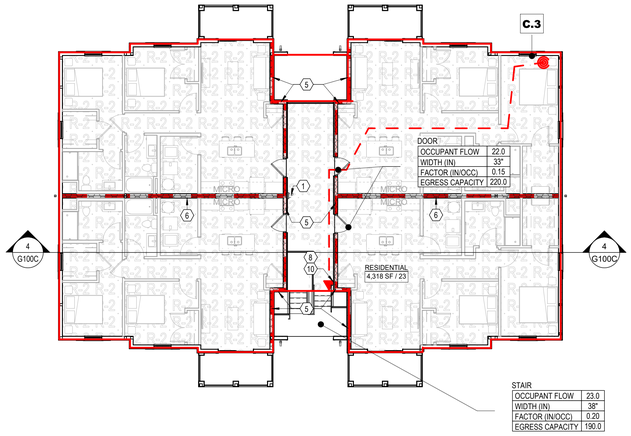
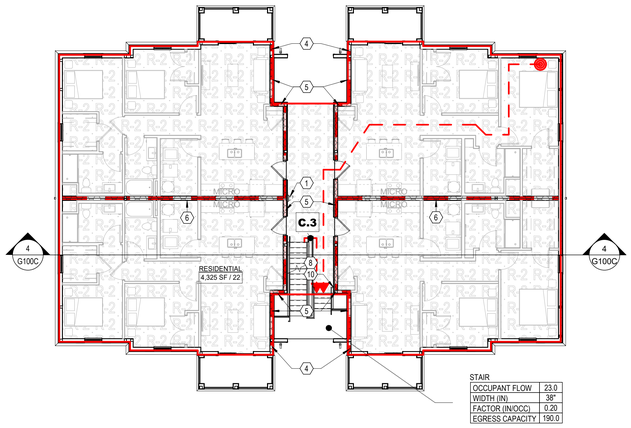
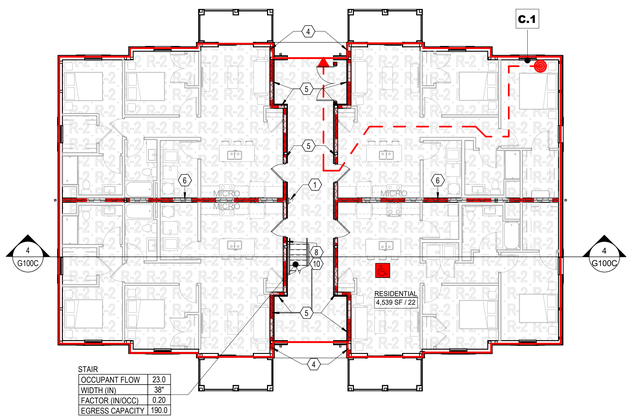
OCCUPANCY LIFE SAFETY (BUILDING C)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	**4,539 SF**	**200**	**23**
	4,539 SF		**23**
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	**4,325 SF**	**200**	**22**
	4,325 SF		**22**
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	**4,318 SF**	**200**	**22**
	4,318 SF		**22**
GRAND TOTAL	**13,182 SF**		**67**



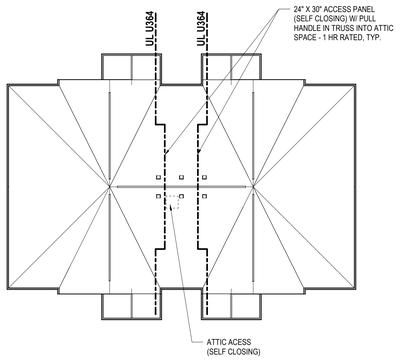
3 PLAN BLDG C-LEVEL 03
3/32" = 1'-0"



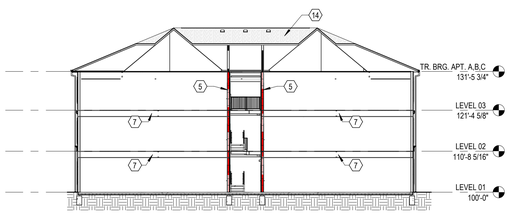
2 PLAN BLDG C-LEVEL 02
3/32" = 1'-0"



1 PLAN BLDG C-LEVEL 01
3/32" = 1'-0"



5 PLAN BLDG C - ROOF
1/16" = 1'-0"



4 SECTION LIFE SAFETY - BLDG C
1/16" = 1'-0" REF: 1 / A105C

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL US87
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL- UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL PS22
15. EXTERIOR WALL TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U356

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR

OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200
- OCCUPANT LOAD
- AREA SF
- PATH OF EGRESS TRAVEL
- A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

-2 R-2	RESIDENTIAL R-2	A-2 A	ASSEMBLY A-2
-2 S-2	STORAGE S-2	A-3 A	ASSEMBLY A-3
		U	UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	78'-0"	20'-0"	125'-0"	COMMON	98'-0"
A.3	84'-1"	40'-0"	125'-0"	COMMON	124'-1"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	86'-5"	20'-0"	125'-0"	COMMON	106'-5"
B.3	104'-2"	20'-0"	125'-0"	COMMON	124'-2"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	76'-3"	0"	125'-0"	COMMON	76'-3"
C.3	84'-10"	40'-0"	125'-0"	COMMON	124'-10"
D1	56'-7"	0"	125'-0"	COMMON	56'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	31'-10"	0"	125'-0"	COMMON	31'-10"
G2	31'-10"	0"	125'-0"	COMMON	31'-10"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LIFE SAFETY

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G100C
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:30 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dylpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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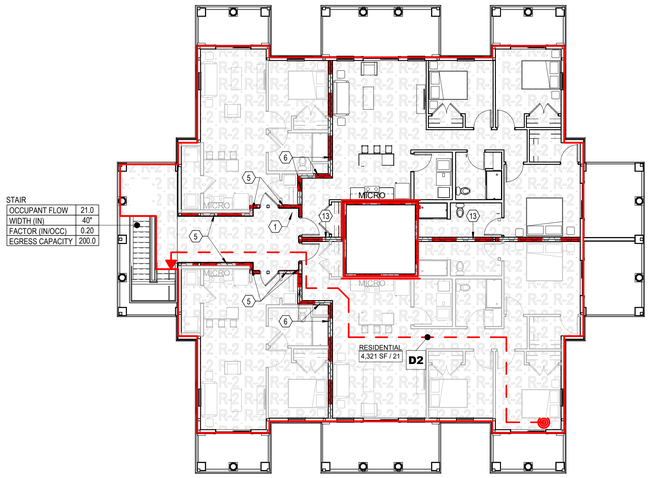
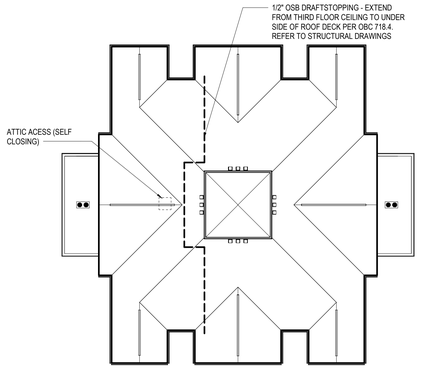
OCCUPANCY LIFE SAFETY (CLUBHOUSE)

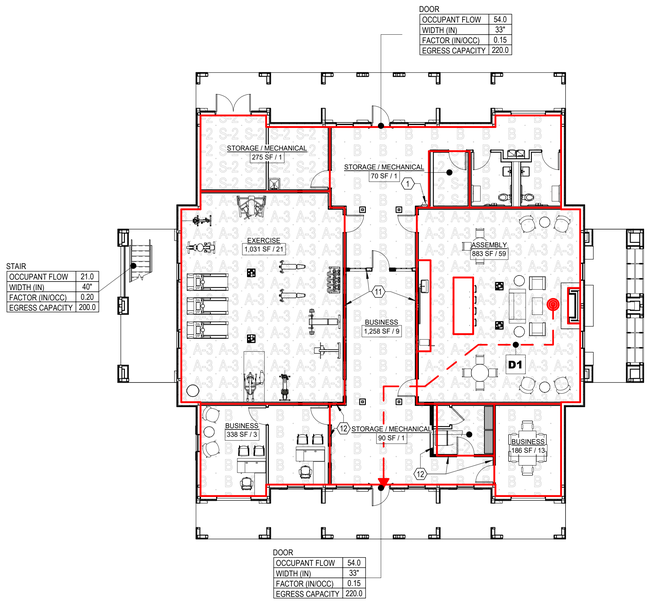
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
STORAGE 2	**70 SF**	**300**	**0**
STORAGE 2	**90 SF**	**300**	**0**
BUSINESS	**186 SF**	**150**	**1**
STORAGE 2	**275 SF**	**300**	**1**
BUSINESS	**338 SF**	**150**	**2**
ASSEMBLY 3a - AUDITORIUMS	**883 SF**	**15**	**59**
ASSEMBLY 3a - AUDITORIUMS	**1,031 SF**	**50**	**21**
BUSINESS	**1,258 SF**	**150**	**8**
	4,131 SF		**92**
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	**4,321 SF**	**200**	**22**
	4,321 SF		**22**
GRAND TOTAL	**8,452 SF**		**114**



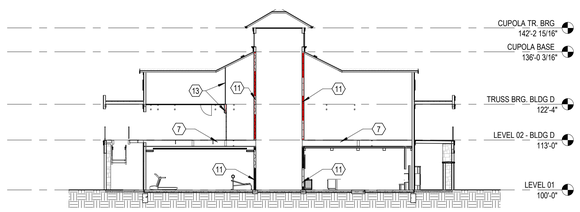
2 PLAN CLUBHOUSE-LEVEL 02
3/32" = 1'-0"



4 PLAN BLDG D - ROOF
1/16" = 1'-0"



1 PLAN CLUBHOUSE-LEVEL 01
3/32" = 1'-0"



3 SECTION LIFE SAFETY - CLUBHOUSE
1/16" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. SEMI RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING 4 AND BUILDING 7 TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305,
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U356
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L587
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL- UL U341. PROVIDE 1/2" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF-CEILING ASSEMBLY - UL P522
15. EXTERIOR WALL TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U356

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FVC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR

OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR

OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1500 SF / 1200 — OCCUPANT LOAD
AREA SF

PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

- -2 R-2 — RESIDENTIAL R-2
- -2 S-2 — STORAGE S-2
- A-2 A — ASSEMBLY A-2
- A-3 A — ASSEMBLY A-3
- U — UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	78'-0"	20'-0"	125'-0"	COMMON	98'-0"
A.3	84'-1"	40'-0"	125'-0"	COMMON	124'-1"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	86'-5"	20'-0"	125'-0"	COMMON	106'-5"
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D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
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300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CLUBHOUSE - LIFE SAFETY

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G100D
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:38 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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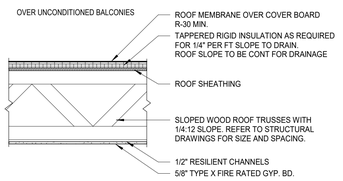
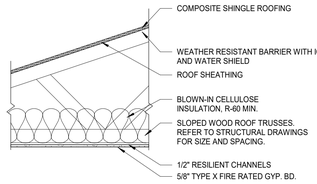
R1 - FLAT ROOF

UL #: UL P522
FIRE RATING: 1 HOUR



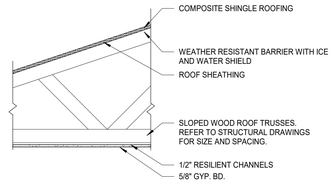
R2 - SLOPED ROOF

UL #: UL P522
FIRE RATING: 1 HOUR



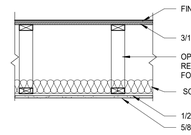
R3 - SLOPED ROOF (GARAGE BUILDINGS)

UL #: N/A
FIRE RATING: NON-RATED



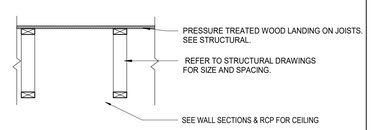
F1 - TYPICAL RESIDENTIAL FLOOR

UL #: ULL587
FIRE RATING: 1 HOUR
IIC: 54
STC: 59



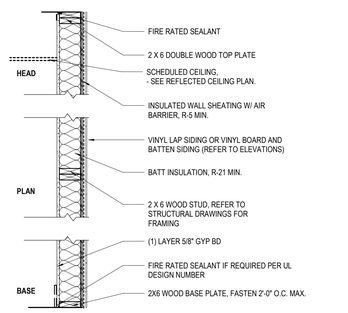
F2 - TYPICAL BREEZEWAY FLOOR

UL #: --
FIRE RATING: NOT REQUIRED
IIC: --
STC: --



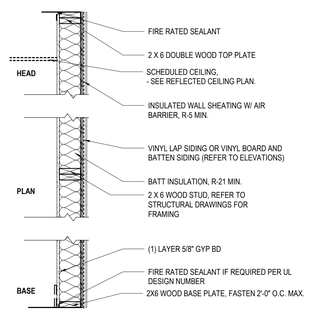
E1 - TYPICAL EXTERIOR STUD WALL

UL #:
FIRE RATING: NOT REQUIRED



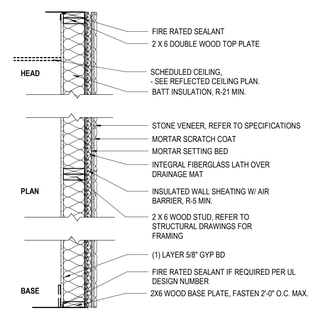
E1a - 1 HR EXTERIOR STUD WALL

UL #: UL U356
FIRE RATING: 1 HOUR



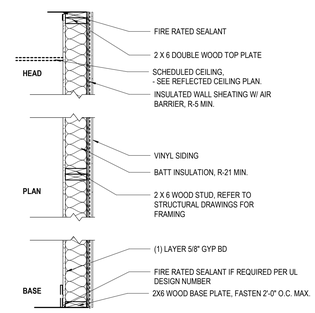
E2 - TYPICAL EXTERIOR STUD WALL

UL #:
FIRE RATING: NOT REQUIRED



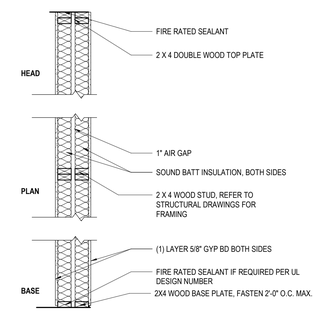
E3 - TYPICAL BREEZEWAY STUD WALL

UL #: UL U356
FIRE RATING: 1 HR

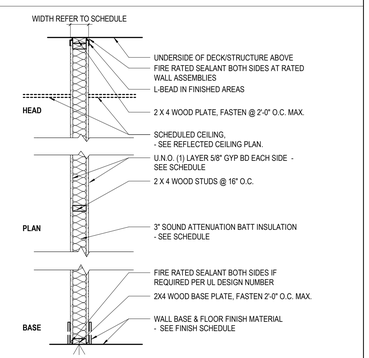


DW - TYPICAL UNIT DEMISING

UL #: UL U341
FIRE RATING: 1 HR
STC: STC 54 PER NGC 218

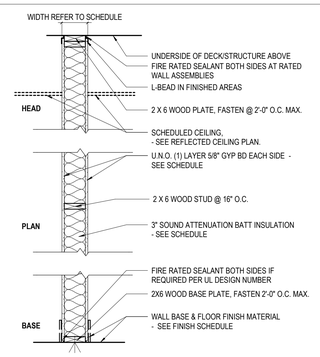


TYPE 11 - 2 X 4 WOOD STUD WALL TYPES



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
11A	4 3/4"	2x4	No	Yes	Yes	1HR	UL# U305	35	No	04	
11B	4 3/4"	2x4	No	Yes	Yes	1HR	UL# U305	46	Yes	04	
11C	4 3/4"	2x4	No	Yes	No	0HR		46	Yes	04	
11D	<varies>	2x4	No	Yes	No	0HR		35	No	04	
11J	4 3/4"	2x4	No	Yes	Yes	1HR	UL# U305	35	No	04	
11K	4 1/8"	2x4	Yes	No	No	0HR		35	No	05	
11S	4 1/8"	2x4	Yes	No	No	0HR		35	No	04	

TYPE 12 - 2 X 6 WOOD STUD WALL TYPES



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
12A	6 3/4"	2X6	No	Yes	Yes	1HR	UL# U305	35 EST.	No	04	
12B	6 3/4"	2X6	No	Yes	Yes	1HR	UL# U305	46 EST.	Yes	04	
12C	6 3/4"	2X6	No	Yes	No	0HR		46 EST.	Yes	04	
12D	6 3/4"	2X6	No	Yes	No	0HR		35 EST.	No	04	
12S	6 1/8"	2X6	Yes	No	No	0HR		35 EST.	No	04	
12U	6 3/4"	2X6	No	Yes	Yes	1HR	UL# U305	46 EST.	Yes	04	BEARING

GENERAL NOTES - WALL TYPE

1. ALL DIMENSIONS TO FACE OF WALL U.N.O.
2. USE 5/8" WATER RESISTANT GYP. BD. ON ALL WET WALLS, UNO.
3. USE CEMENT BOARD FOR ALL WALLS TO RECEIVE CERAMIC TILE, UNO.
4. FIRE SAFE ALL JOINTS AND PENETRATIONS AT FIRE RATED PARTITIONS.
5. UL NUMBERS LISTED APPLY ONLY TO THE TESTED MANUFACTURERS. EQUAL MANUFACTURERS' EQUIVALENT ASSEMBLY INFORMATION MUST BE APPROVED BY ARCHITECT.
6. INSULATION MUST EXTEND FULL HEIGHT OF PARTITION. WHERE SOUND ATTENUATION BATTS ARE INDICATED IN PARTITIONS, INSTALL ACOUSTIC SEALANT AT BOTH SIDES, ALONG THE TOP AND BOTTOM, AND AT INTERSECTING PARTITIONS.
7. WHERE 3 5/8", 4" OR 6" STUD WALLS ARE INDICATED, SEE SPECIFICATIONS FOR HEIGHT LIMITS
8. REFER TO FINISH SCHEDULE FOR FINISHES.
9. SEAL TOP & BOTTOM OF PARTITION WITH ACOUSTIC SEALANT AS REQUIRED BY STC RATING.

CODED NOTE LEGEND

1. BRACE EACH STUD @ 4'-0" O.C. TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.
2. BRACE EACH STUD @ 8'-0" O.C. TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.
3. SMOKE TIGHT SEAL SHALL BE PROVIDED AT TOP, BOTTOM AND ENDS OF WALL AND AT ALL PENETRATIONS.
4. FULL HEIGHT PARTITION. TERMINATE GYP. BD. AND STUDS AT DECK/STRUCTURE ABOVE.
5. STOP GYP. BD. AND STUDS 6" AFC. BRACE PARTITION TO DECK/STRUCTURE PER METAL STUD MANUFACTURER DESIGN LOADING CRITERIA.
6. FULL HEIGHT SHAFT WALL. TERMINATE GYP BD. AND STUDS AT DECK/STRUCTURE ABOVE.
7. FULL HEIGHT PARTITION. TERMINATE GYP BD., PLYWOOD AND STUDS AT DECK/STRUCTURE ABOVE.
8. FULL HEIGHT PARTITION. TERMINATE CMU AT DECK/STRUCTURE ABOVE.
9. STOP CMU FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCTURE PER STRUCTURAL DRAWINGS.
10. FULL HEIGHT PARTITION. TERMINATE CMU AT DECK ABOVE. STOP FURRING AND GYP. BD. @ 6" ABOVE FINISHED CEILING.
11. STOP WALL FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCT. PER STRUCTURAL DRAWINGS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING ASSEMBLIES SCHEDULE

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

G200

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:42 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/print R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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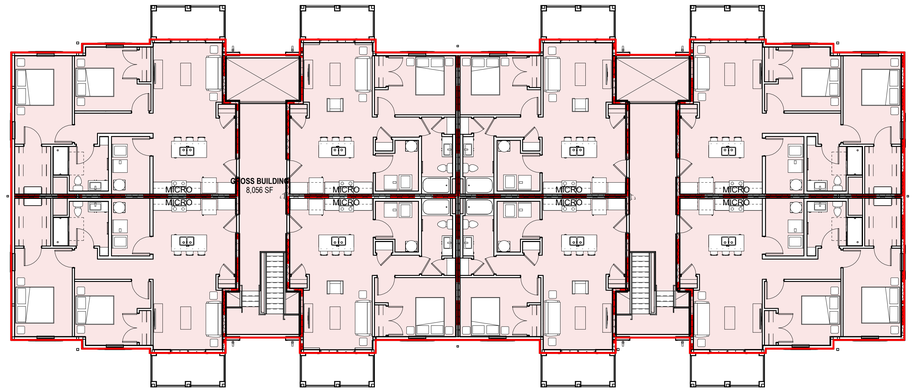
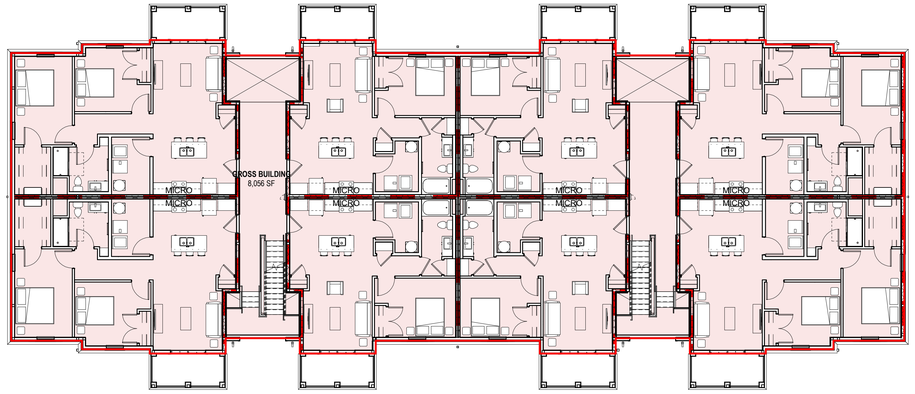
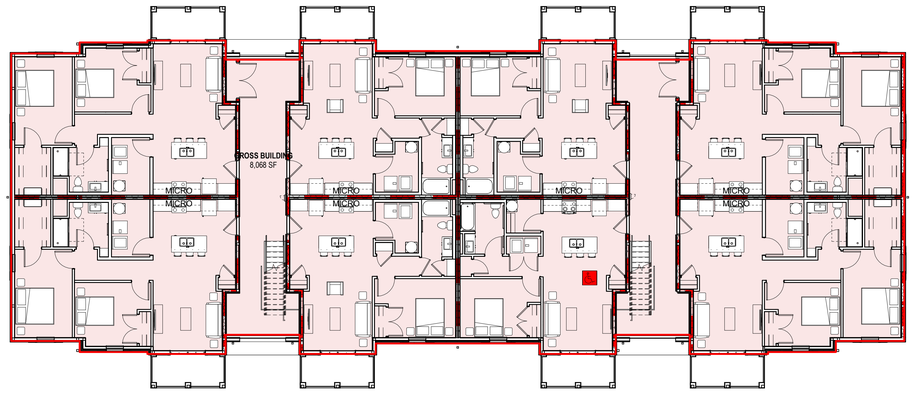


3 **PLAN** BLDG A - LEVEL 03 - GROSS AREA PLAN
3/32" = 1'-0"



2 **PLAN** BLDG A - LEVEL 02 - GROSS AREA PLAN
3/32" = 1'-0"



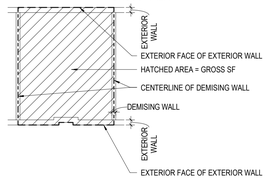
1 **PLAN** BLDG A - LEVEL 01 - GROSS AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

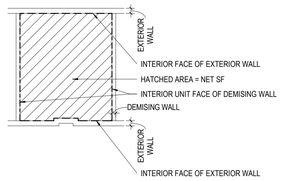
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



AREA PLAN SCHEDULE (Gross Building)

LEVEL	NAME	AREA
BUILDING A		
LEVEL 01	GROSS BUILDING	8,068 SF
LEVEL 02	GROSS BUILDING	8,056 SF
LEVEL 03	GROSS BUILDING	8,056 SF
		24,180 SF
BUILDING B		
LEVEL 01	GROSS BUILDING	10,220 SF
LEVEL 02	GROSS BUILDING	10,220 SF
LEVEL 03	GROSS BUILDING	10,131 SF
		30,570 SF
BUILDING C		
LEVEL 01	GROSS BUILDING	4,567 SF
LEVEL 02	GROSS BUILDING	4,567 SF
LEVEL 03	GROSS BUILDING	4,518 SF
		13,652 SF
CLUBHOUSE		
LEVEL 01	GROSS BUILDING	4,435 SF
LEVEL 02	GROSS BUILDING	4,233 SF
		8,669 SF
GARAGE G1		
LEVEL 01	GROSS BUILDING	1,571 SF
		1,571 SF
GARAGE G2		
LEVEL 01	GROSS BUILDING	3,132 SF
		3,132 SF
GRAND TOTAL: 13		81,773 SF

DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - GROSS SQUARE FOOTAGE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G300A

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:58:47 PM
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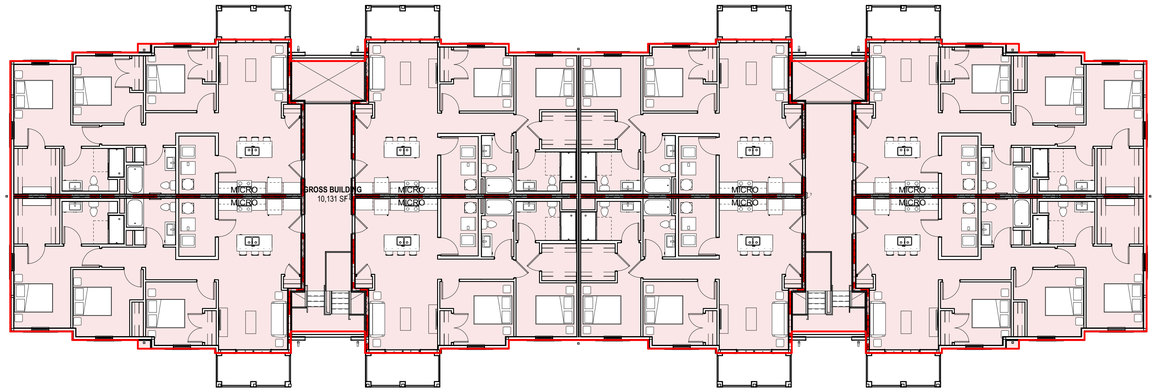
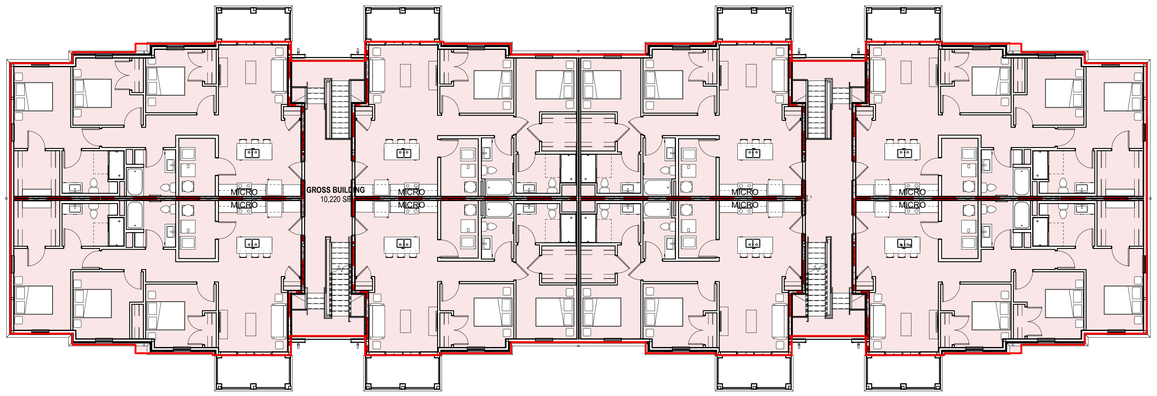
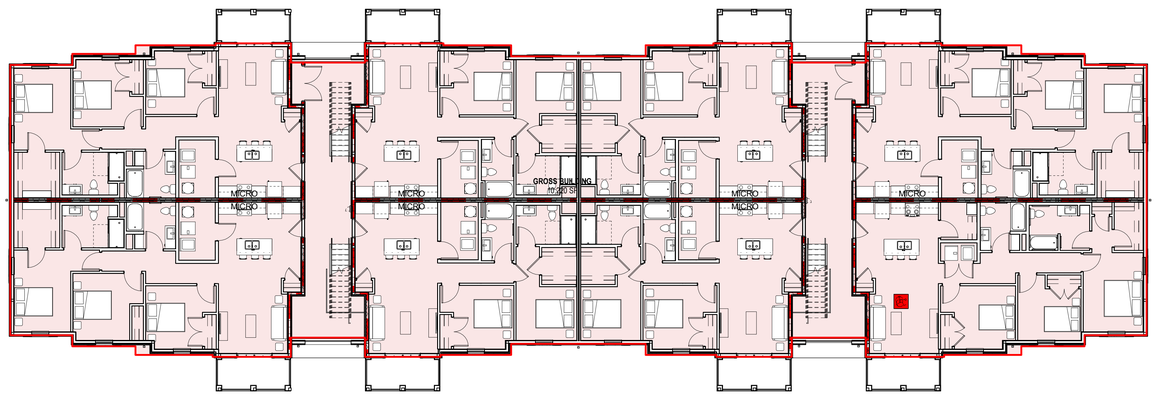


3 **PLAN** BLDG B - LEVEL 03 - GROSS AREA PLAN
3/32" = 1'-0"



2 **PLAN** BLDG B - LEVEL 02 - GROSS AREA PLAN
3/32" = 1'-0"



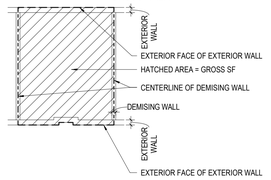
1 **PLAN** BLDG B - LEVEL 01 - GROSS AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

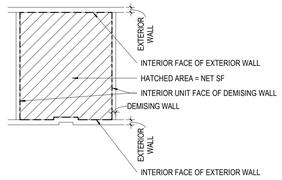
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



AREA PLAN SCHEDULE (Gross Building)

LEVEL	NAME	AREA
BUILDING A		
LEVEL 01	GROSS BUILDING	8,068 SF
LEVEL 02	GROSS BUILDING	8,056 SF
LEVEL 03	GROSS BUILDING	8,056 SF
		24,180 SF
BUILDING B		
LEVEL 01	GROSS BUILDING	10,220 SF
LEVEL 02	GROSS BUILDING	10,220 SF
LEVEL 03	GROSS BUILDING	10,131 SF
		30,570 SF
BUILDING C		
LEVEL 01	GROSS BUILDING	4,567 SF
LEVEL 02	GROSS BUILDING	4,567 SF
LEVEL 03	GROSS BUILDING	4,518 SF
		13,652 SF
CLUBHOUSE		
LEVEL 01	GROSS BUILDING	4,435 SF
LEVEL 02	GROSS BUILDING	4,233 SF
		8,669 SF
GARAGE G1		
LEVEL 01	GROSS BUILDING	1,571 SF
		1,571 SF
GARAGE G2		
LEVEL 01	GROSS BUILDING	3,132 SF
		3,132 SF
GRAND TOTAL: 13		81,773 SF

DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING B - GROSS SQUARE FOOTAGE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G300B

CD PROGRESS SET

REVIT VERSION: 2023
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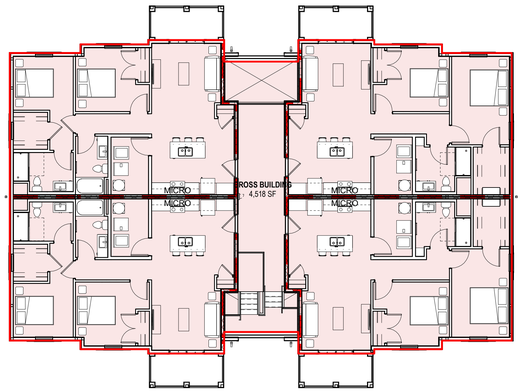
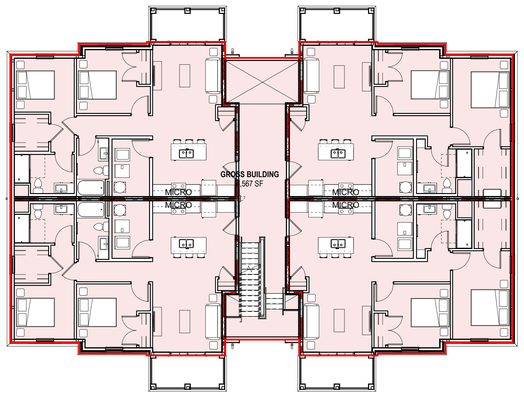
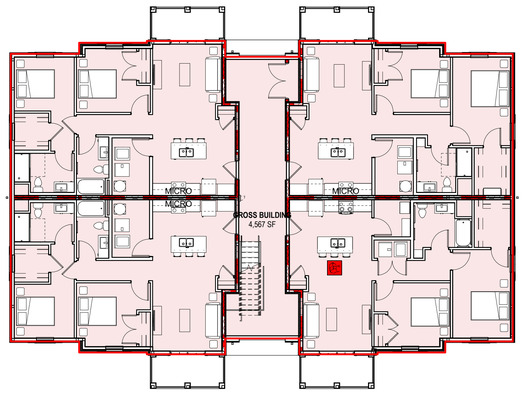


3 PLAN BLDG C - LEVEL 03 - GROSS AREA PLAN
3/32" = 1'-0"



2 PLAN BLDG C - LEVEL 02 - GROSS AREA PLAN
3/32" = 1'-0"



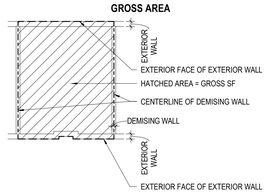
1 PLAN BLDG C - LEVEL 01 - GROSS AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

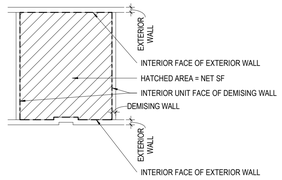
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



AREA PLAN SCHEDULE (Gross Building)

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LEVEL 01	GROSS BUILDING	8,068 SF
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LEVEL 01	GROSS BUILDING	4,435 SF
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DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - GROSS SQUARE FOOTAGE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G300C

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/3/2025 1:58:57 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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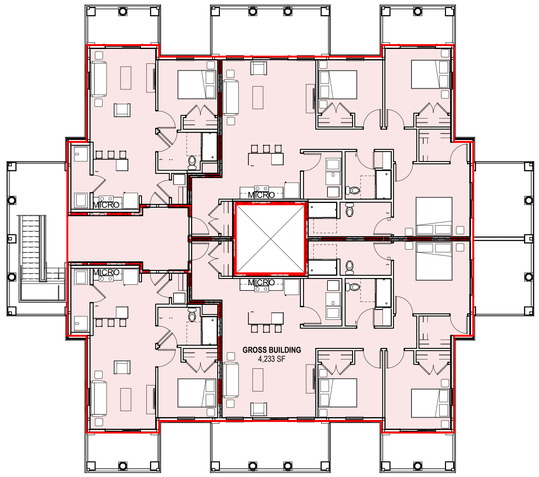
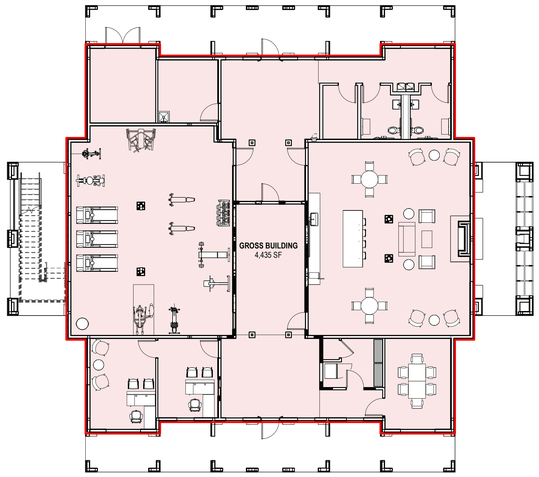


2 **PLAN** CLUBHOUSE - LEVEL 02 - GROSS AREA PLAN
3/32" = 1'-0"

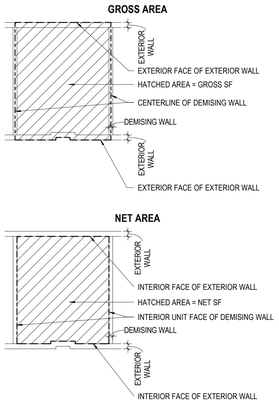


1 **PLAN** CLUBHOUSE - LEVEL 01 - GROSS AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND



AREA PLAN SCHEDULE (Gross Building)

LEVEL	NAME	AREA
BUILDING A		
LEVEL 01	GROSS BUILDING	8,068 SF
LEVEL 02	GROSS BUILDING	8,056 SF
LEVEL 03	GROSS BUILDING	8,056 SF
		24,180 SF
BUILDING B		
LEVEL 01	GROSS BUILDING	10,220 SF
LEVEL 02	GROSS BUILDING	10,220 SF
LEVEL 03	GROSS BUILDING	10,131 SF
		30,570 SF
BUILDING C		
LEVEL 01	GROSS BUILDING	4,567 SF
LEVEL 02	GROSS BUILDING	4,567 SF
LEVEL 03	GROSS BUILDING	4,518 SF
		13,652 SF
CLUBHOUSE		
LEVEL 01	GROSS BUILDING	4,435 SF
LEVEL 02	GROSS BUILDING	4,233 SF
		8,669 SF
GARAGE G1		
LEVEL 01	GROSS BUILDING	1,571 SF
		1,571 SF
GARAGE G2		
LEVEL 01	GROSS BUILDING	3,132 SF
		3,132 SF
GRAND TOTAL: 13		81,773 SF

DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CLUBHOUSE - GROSS SQUARE FOOTAGE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G300D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:59:03 PM
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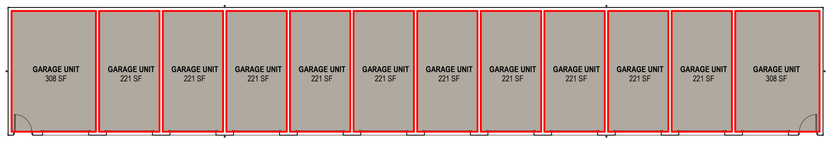
Area Department

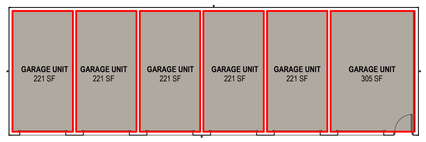
SUPPORT



6 **PLAN** GARAGE G2 - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

Area Department

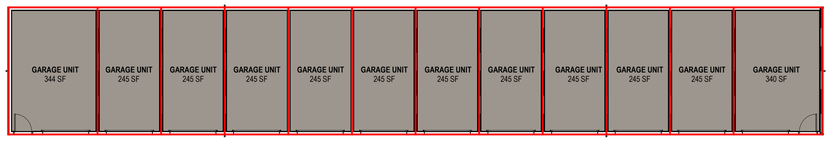
SUPPORT



3 **PLAN** GARAGE G1 - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

Department Gross

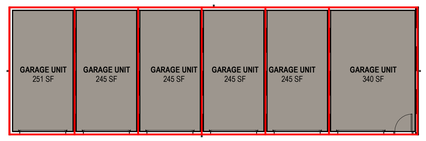
SUPPORT



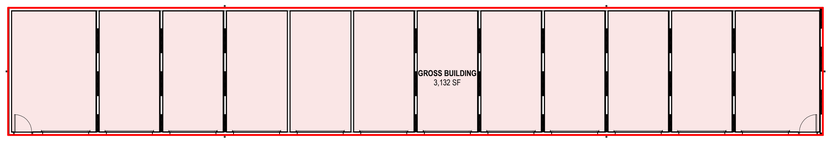
5 **PLAN** GARAGE G2 - LEVEL 01 - GROSS AREA
3/32" = 1'-0"

Department Gross

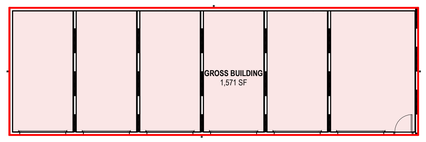
SUPPORT



2 **PLAN** GARAGE G1 - LEVEL 01 - GROSS AREA
3/32" = 1'-0"



4 **PLAN** GARAGE G2 - LEVEL 01 - GROSS SQUARE FOOTAGE
3/32" = 1'-0"



1 **PLAN** GARAGE G1 - LEVEL 01 - GROSS SQUARE FOOTAGE
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
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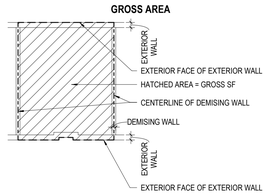
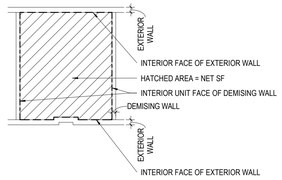
AREA LEGEND

GROSS AREA



NET AREA



AREA PLAN SCHEDULE (Gross Building)

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LEVEL 02	GROSS BUILDING	8,056 SF
LEVEL 03	GROSS BUILDING	8,056 SF
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BUILDING B		
LEVEL 01	GROSS BUILDING	10,220 SF
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LEVEL 03	GROSS BUILDING	10,131 SF
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LEVEL 02	GROSS BUILDING	4,567 SF
LEVEL 03	GROSS BUILDING	4,518 SF
		13,652 SF
CLUBHOUSE		
LEVEL 01	GROSS BUILDING	4,435 SF
LEVEL 02	GROSS BUILDING	4,233 SF
		8,669 SF
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GARAGE G2		
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

GARAGE G1 & G2 - AREA PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G300G

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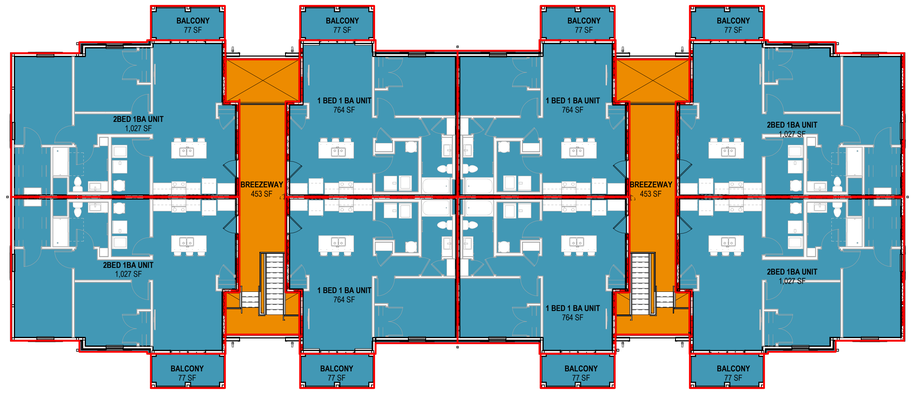
Department Gross

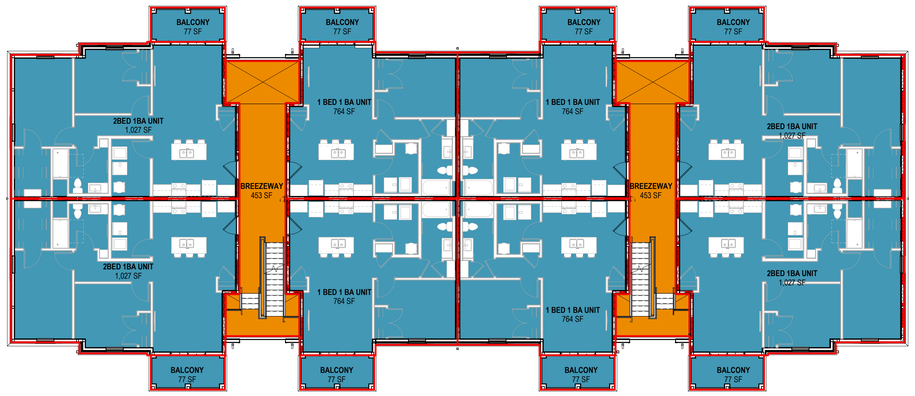
- CIRCULATION
- RESIDENTIAL



3 **PLAN** BLDG A - LEVEL 03 - GROSS AREA
3/32" = 1'-0"

Department Gross

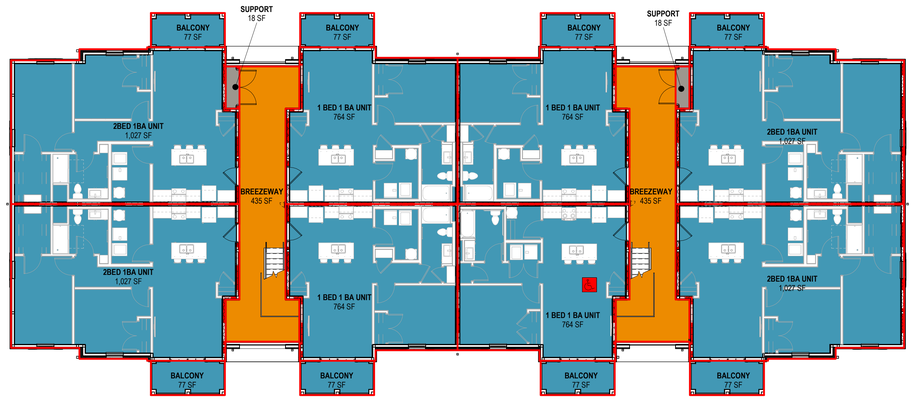
- CIRCULATION
- RESIDENTIAL



2 **PLAN** BLDG A - LEVEL 02 - GROSS AREA
3/32" = 1'-0"

Department Gross

- CIRCULATION
- RESIDENTIAL
- SUPPORT



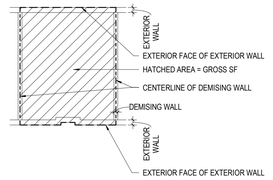
1 **PLAN** BLDG A - LEVEL 01 - GROSS AREA
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

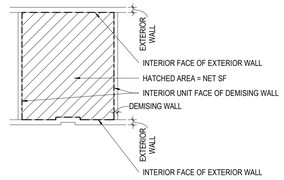
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - GROSS AREA

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
G400A
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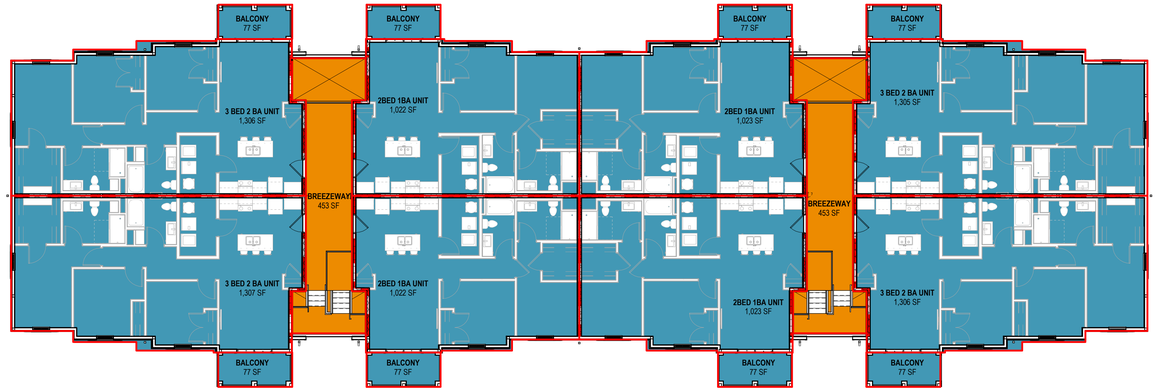
Department Gross

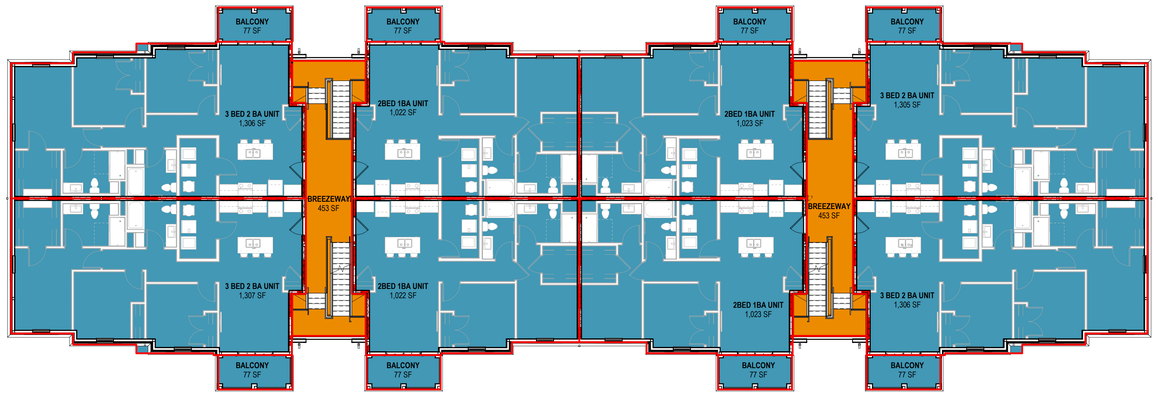
- CIRCULATION
- RESIDENTIAL



3 PLAN BLDG B - LEVEL 03 - GROSS AREA Copy 1
3/32" = 1'-0"

Department Gross

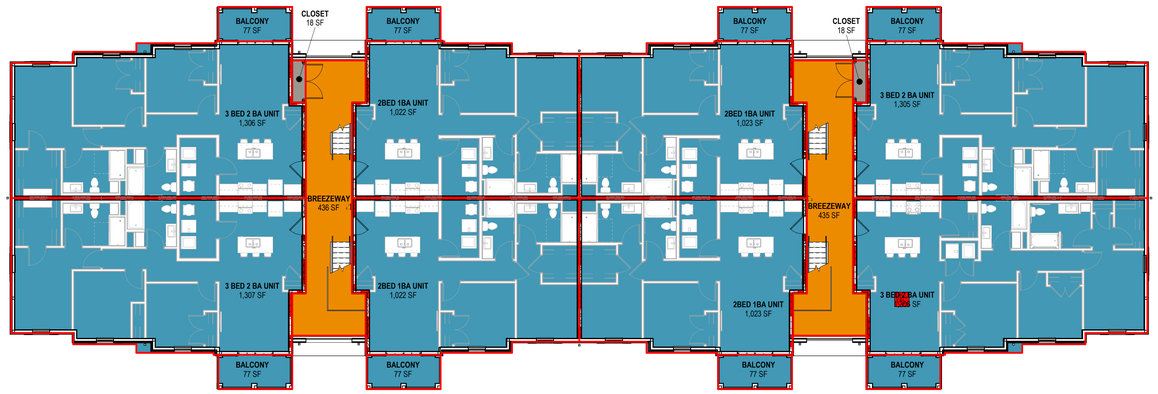
- CIRCULATION
- RESIDENTIAL



2 PLAN BLDG B - LEVEL 02 - GROSS AREA
3/32" = 1'-0"

Department Gross

- CIRCULATION
- RESIDENTIAL
- SUPPORT



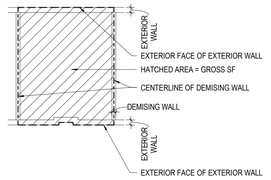
1 PLAN BLDG B - LEVEL 01 - GROSS AREA
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

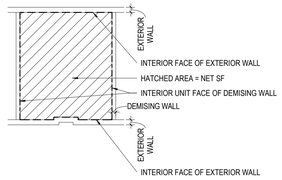
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - GROSS AREA

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G400B
CD PROGRESS SET

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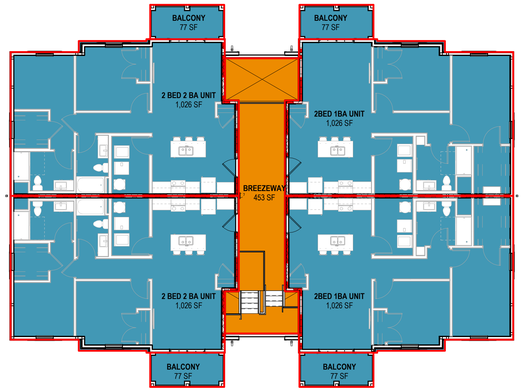
Department Gross

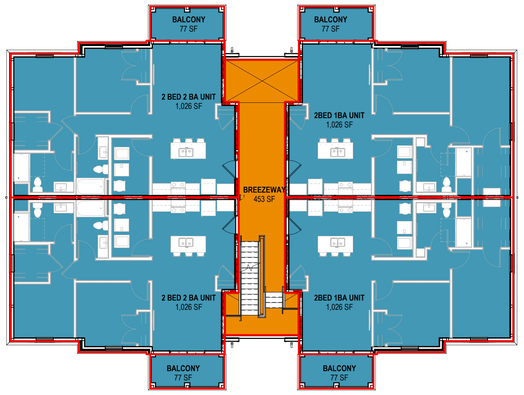
- CIRCULATION
- RESIDENTIAL



3 **PLAN** BLDG C - LEVEL 03 - GROSS AREA
3/32" = 1'-0"

Department Gross

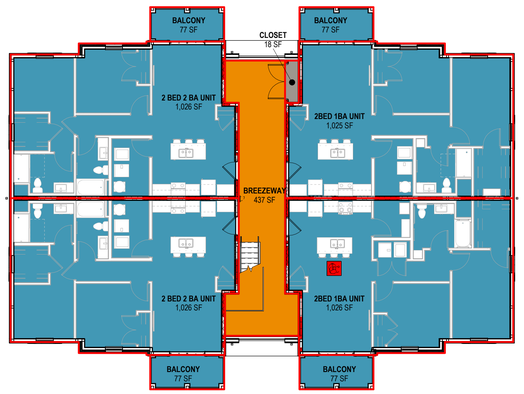
- CIRCULATION
- RESIDENTIAL



2 **PLAN** BLDG C - LEVEL 02 - GROSS AREA
3/32" = 1'-0"

Department Gross

- CIRCULATION
- RESIDENTIAL
- SUPPORT



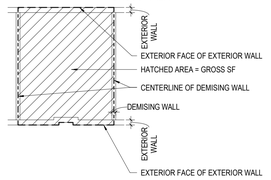
1 **PLAN** BLDG C - LEVEL 01 - GROSS AREA
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

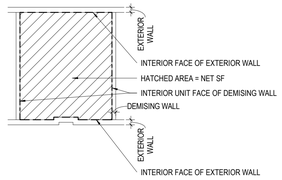
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - GROSS AREA

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G400C

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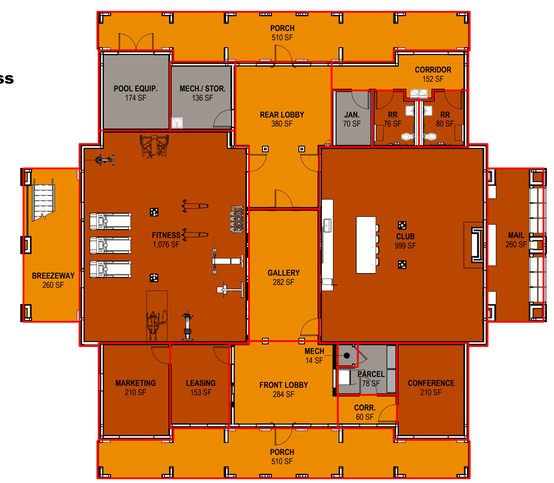
Department Gross

- CIRCULATION
- RESIDENTIAL

2 **PLAN** CLUBHOUSE - LEVEL 02 - GROSS AREA
3/32" = 1'-0"

Department Gross

- AMENITIES
- CIRCULATION
- SUPPORT



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3/32" = 1'-0"

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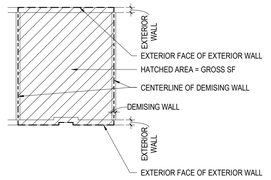
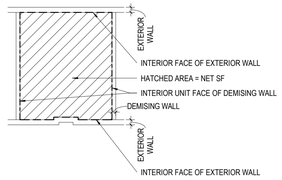
GROSS AREA



NET AREA



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CMHA

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SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CLUBHOUSE - GROSS AREA

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

G400D

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FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D-phase/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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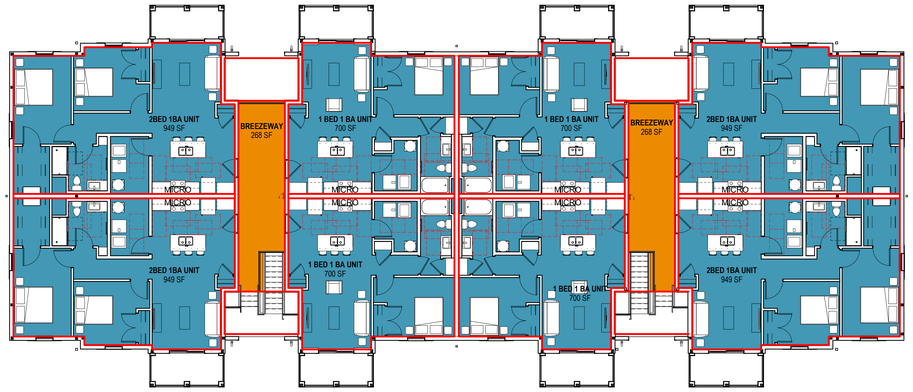
BUILDING A (BUILDING NET)		
Name	**Department**	**Area**
LEVEL 01		
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
CLOSET	**SUPPORT**	**13 SF**
CLOSET	**SUPPORT**	**13 SF**
BREEZEWAY	**CIRCULATION**	**446 SF**
BREEZEWAY	**CIRCULATION**	**450 SF**
LEVEL 01		**7,521 SF**
LEVEL 02		
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**699 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**697 SF**
BREEZEWAY	**CIRCULATION**	**268 SF**
BREEZEWAY	**CIRCULATION**	**268 SF**
LEVEL 02		**7,130 SF**
LEVEL 03		
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
2BED 1BA UNIT	**RESIDENTIAL**	**949 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
1 BED 1 BA UNIT	**RESIDENTIAL**	**700 SF**
BREEZEWAY	**CIRCULATION**	**268 SF**
BREEZEWAY	**CIRCULATION**	**268 SF**
LEVEL 03		**7,135 SF**
Grand total: 32		**21,785 SF**

Area Department

CIRCULATION

RESIDENTIAL

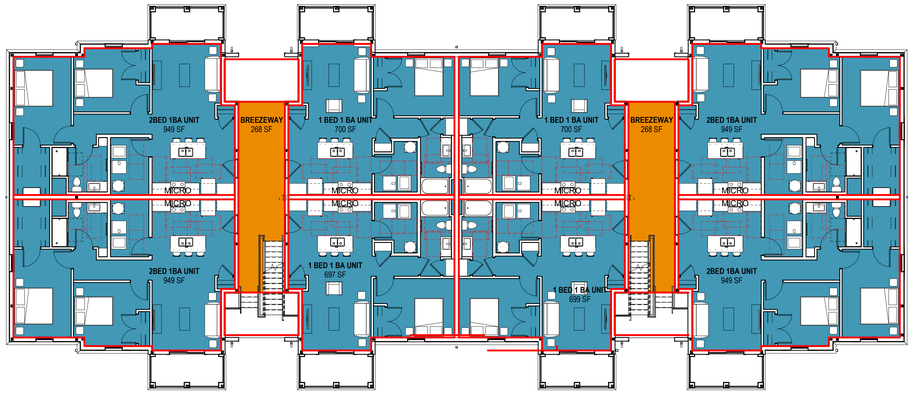


3 PLAN BLDG A - LEVEL 03 - NET AREA PLAN
3/32" = 1'-0"

Area Department

CIRCULATION

RESIDENTIAL



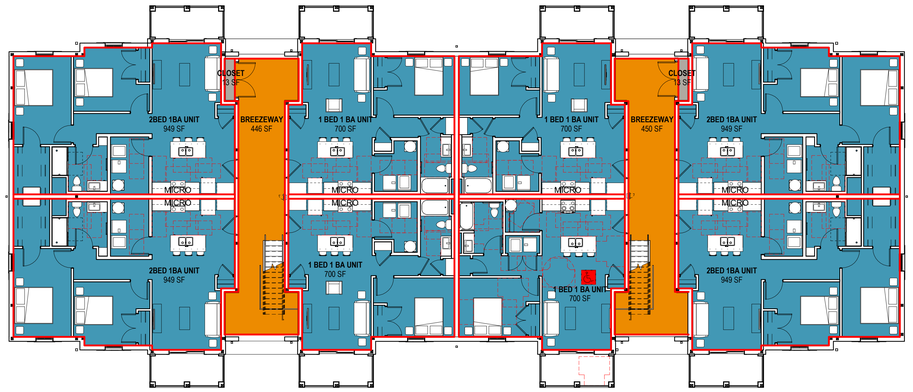
2 PLAN BLDG A - LEVEL 02 - NET AREA PLAN
3/32" = 1'-0"

Area Department

CIRCULATION

RESIDENTIAL

SUPPORT



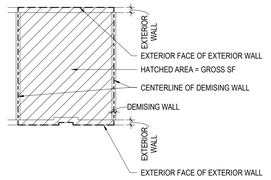
1 PLAN BLDG A - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

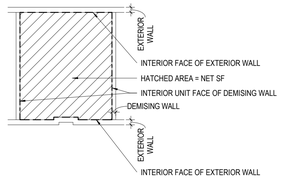
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - AREA PLANS - NET

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

G500A

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:59:35 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dnjprnt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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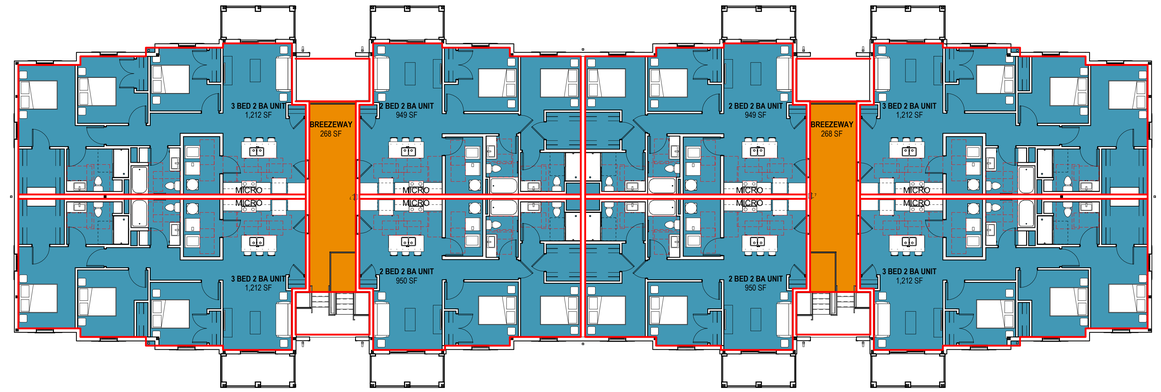
Area Department

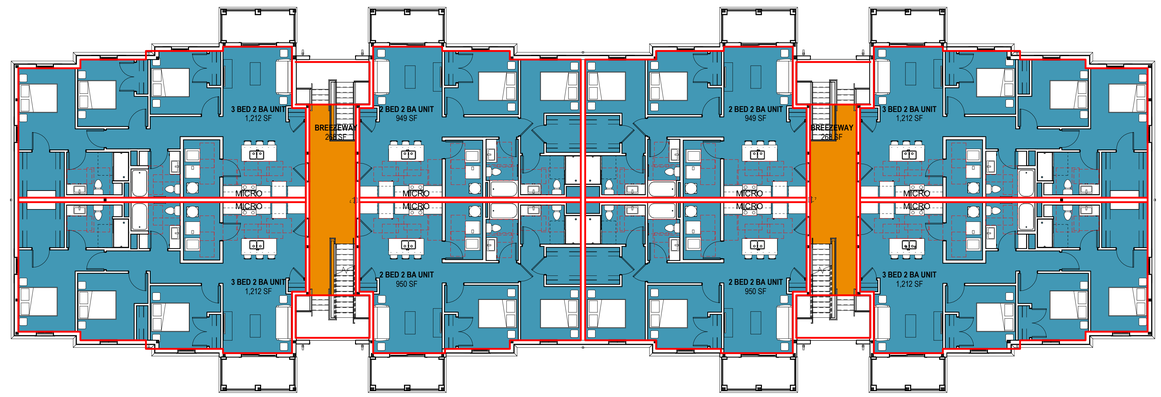
- CIRCULATION
- RESIDENTIAL



3 **PLAN** BLDG B - LEVEL 03 - NET AREA PLAN
3/32" = 1'-0"

Area Department

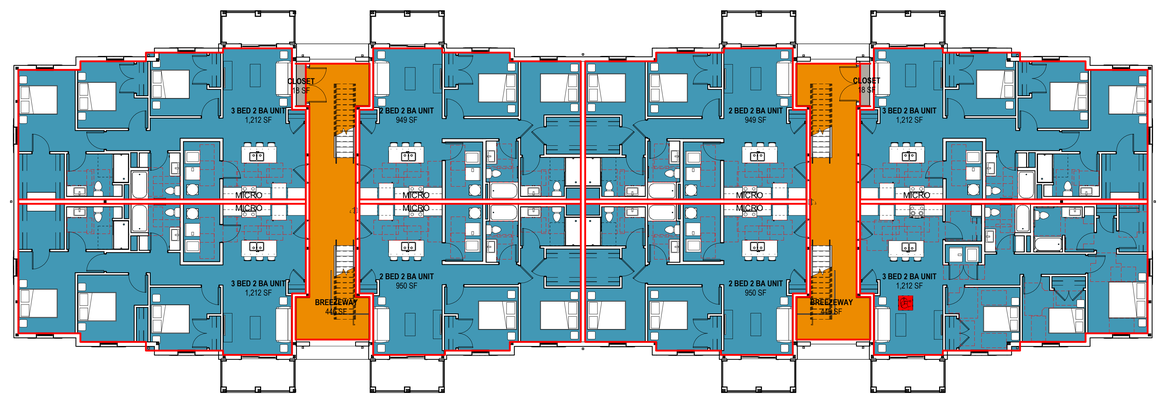
- CIRCULATION
- RESIDENTIAL



2 **PLAN** BLDG B - LEVEL 02 - NET AREA PLAN
3/32" = 1'-0"

Area Department

- CIRCULATION
- RESIDENTIAL
- SUPPORT



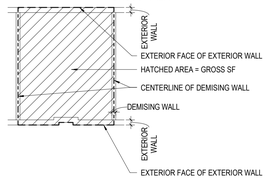
1 **PLAN** BLDG B - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

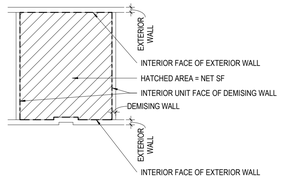
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING B - AREA PLANS - NET

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G500B

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:59:39 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dr/pmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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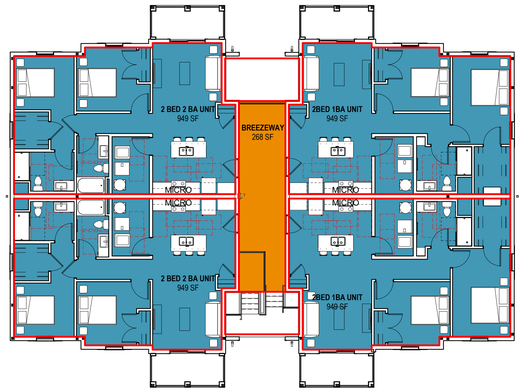
Area Department

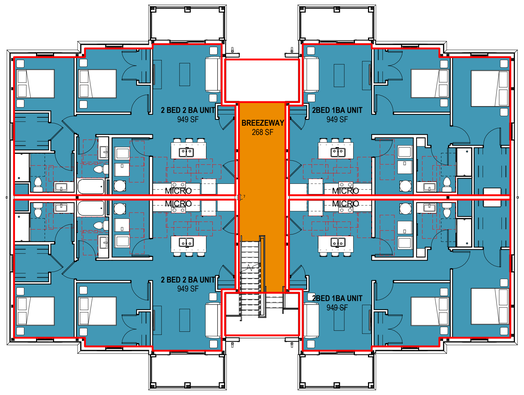
- CIRCULATION
- RESIDENTIAL



3 **PLAN** BLDG C - LEVEL 03 - NET AREA PLAN
3/32" = 1'-0"

Area Department

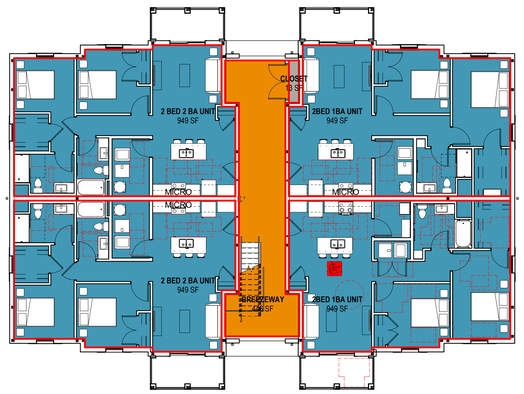
- CIRCULATION
- RESIDENTIAL



2 **PLAN** BLDG C - LEVEL 02 - NET AREA PLAN
3/32" = 1'-0"

Area Department

- CIRCULATION
- RESIDENTIAL
- SUPPORT



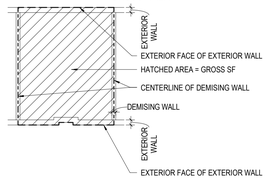
1 **PLAN** BLDG C - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

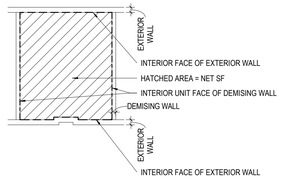
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - AREA PLANS - NET

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

G500C

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:59:44 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D-phase/_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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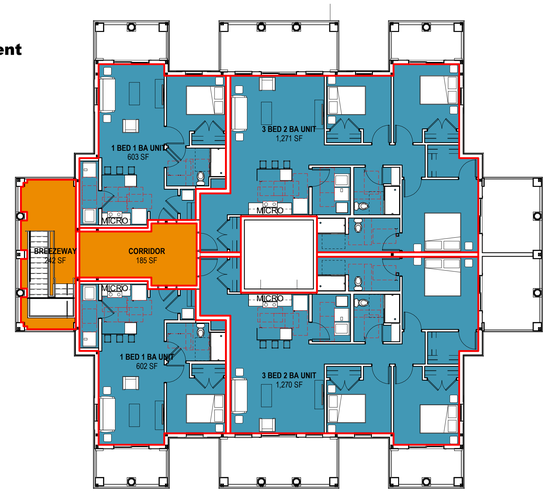
Area Department

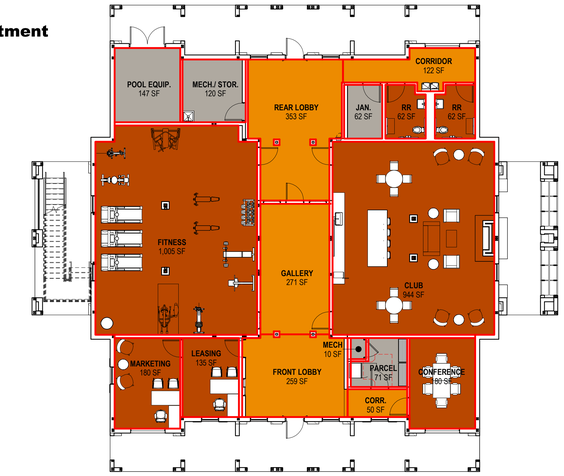
- CIRCULATION
- RESIDENTIAL



2 PLAN CLUBHOUSE - LEVEL 02 - NET AREA PLAN
3/32" = 1'-0"

Area Department

- AMENITIES
- CIRCULATION
- SUPPORT



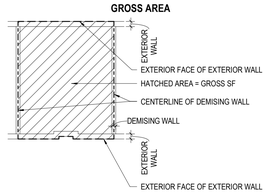
1 PLAN CLUBHOUSE - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

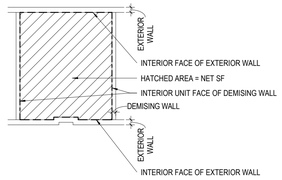
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CLUBHOUSE - AREA PLANS - NET

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G500D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:55:50 PM
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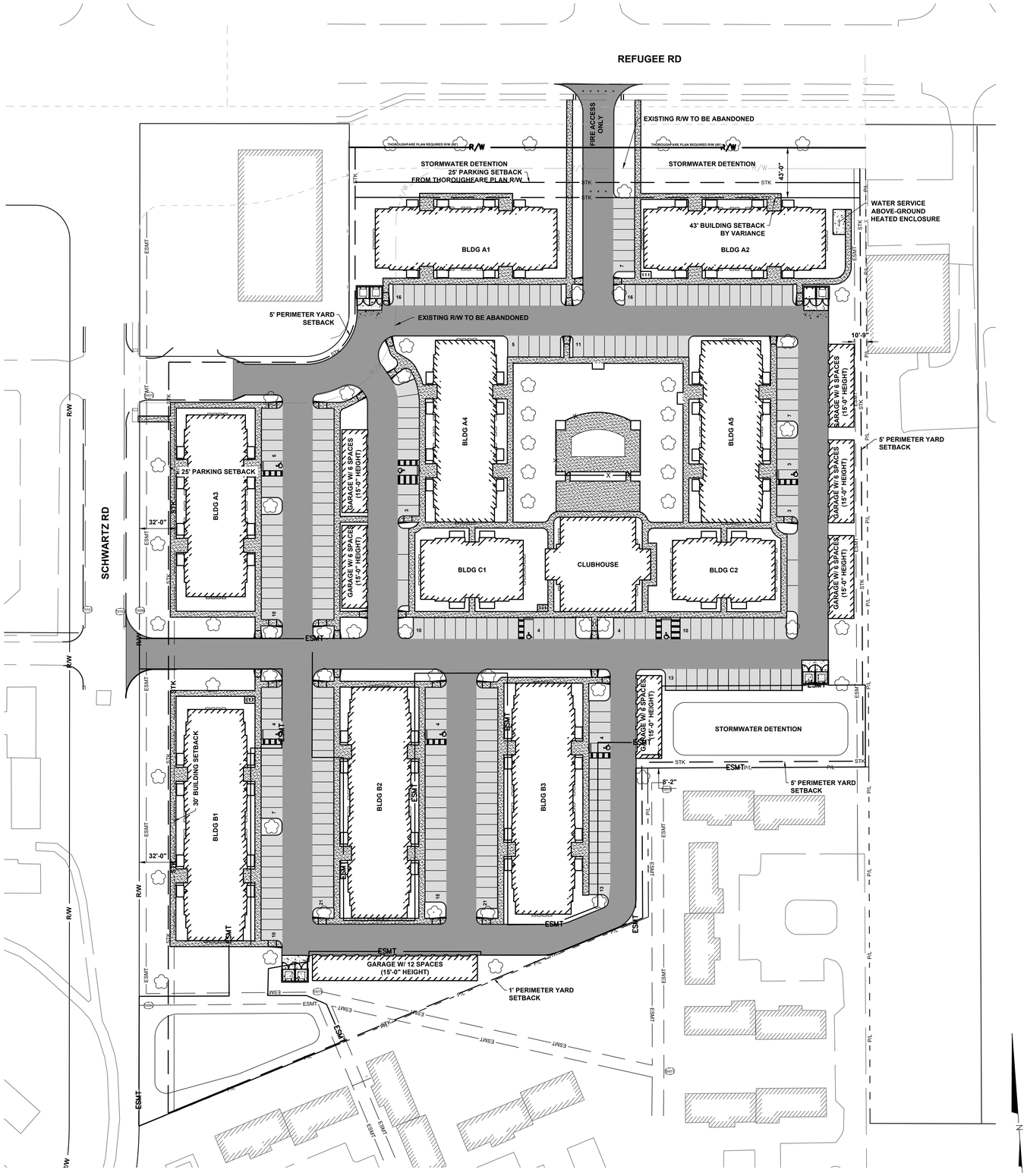

STAKING LEGEND

EXISTING

- P/L — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- BUILDING/WALL
- CURB
- PAVEMENT
- WALK
- STK — SETBACK
- ESMT — EASEMENT
- SURVEY CONTROL POINT
- BENCHMARK
- MONUMENT FOUND, NO. 5 REBAR UNLESS OTHERWISE NOTED.

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- X — FENCE
- BOLLARD
- PAINTED WHEELCHAIR SYMBOL
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE GIVEN TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
2. CURB AND SIDEWALK RADII SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
3. SIDEWALK WIDTH SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
4. PROVIDE STRIPING AND SYMBOLS AS SHOWN PER ODOT ITEM 641 AND 642. PROVIDE STRIPING PAINT WITH GLASS BEADS. PROVIDE TYPE I OR TYPE IA PAINT IN ACCORDANCE WITH ODOT ITEM 642 DEPENDING ON TEMPERATURE CONDITIONS AT THE TIME OF APPLICATION. TYPICAL LINE WIDTH SHALL BE 4 INCHES, COLOR WHITE. PROVIDE TWO COATS.
5. STANDARD PARKING STALL DIMENSIONS ARE 9'-0" IN WIDTH BY 18'-0" IN LENGTH UNLESS OTHERWISE NOTED.
6. ANY PROPERTY PINS DAMAGED AS PART OF CONSTRUCTION SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR.
7. PROVIDE 8 HANDICAP ACCESSIBLE PARKING SIGNS AND 1 VAN ACCESSIBLE PARKING SIGNS. FINAL LOCATION OF SIGNS TO BE DETERMINED BY ARCHITECT.
8. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT BUILDINGS AT ALL TIMES DURING CONSTRUCTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SITE SIGNAGE NOT SHOWN ON THIS SHEET.
10. BUILDING COORDINATES PROVIDED FOR BUILDING LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR BUILDING LAYOUT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

OVERALL STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C101

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 7:38 AM
FILE INFO: J:\Assets\Docs\2022\2-CMHA-Aspire Housing\ 2022\2-CMHA-Aspire Housing_ARCH_R23.rvt

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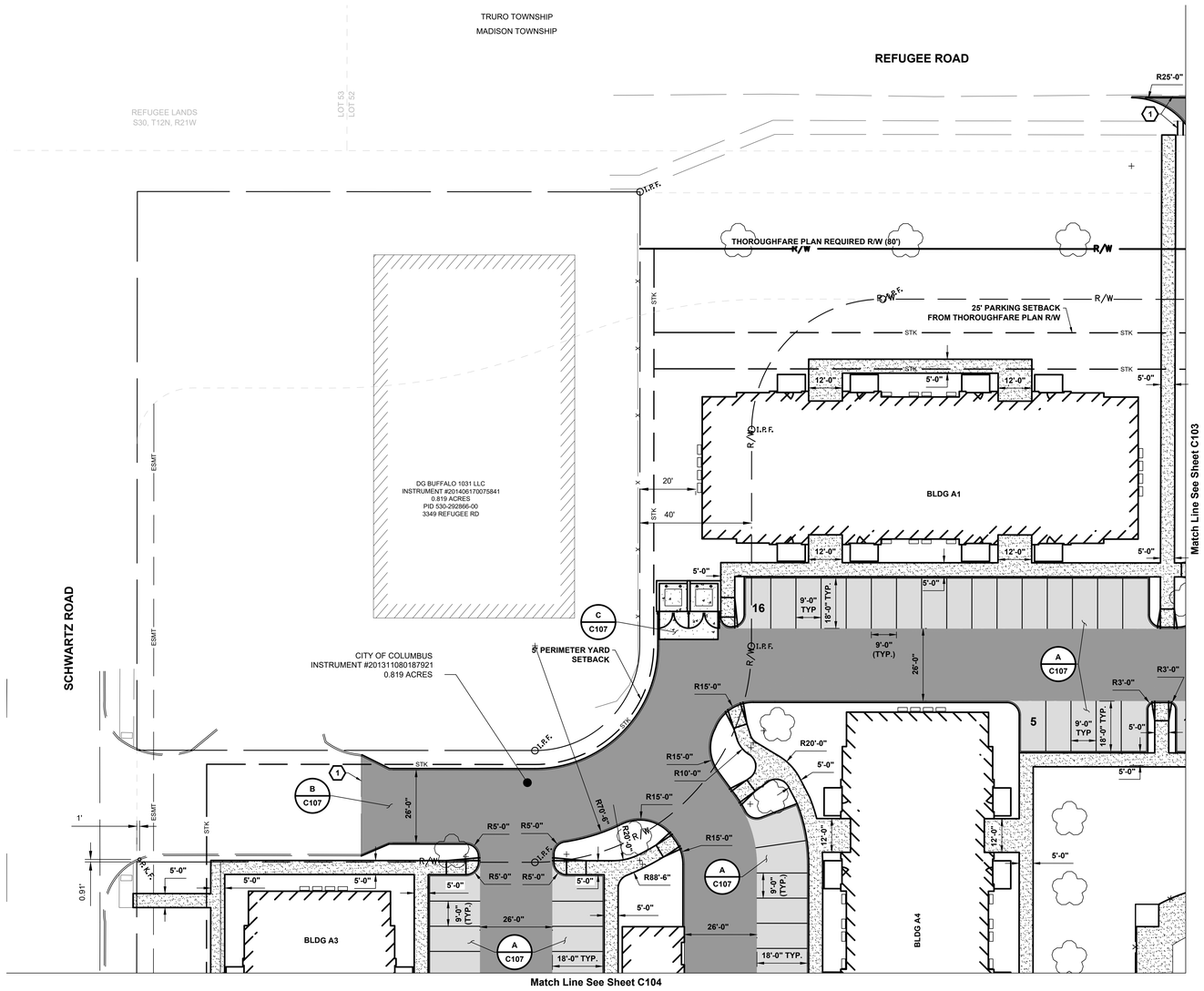
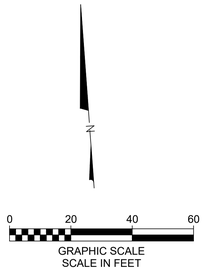




STAKING LEGEND

EXISTING

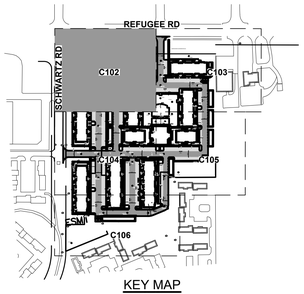
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- FENCE
- BOLLARD
- PAINTED WHEELCHAIR SYMBOL
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C102

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 7:39 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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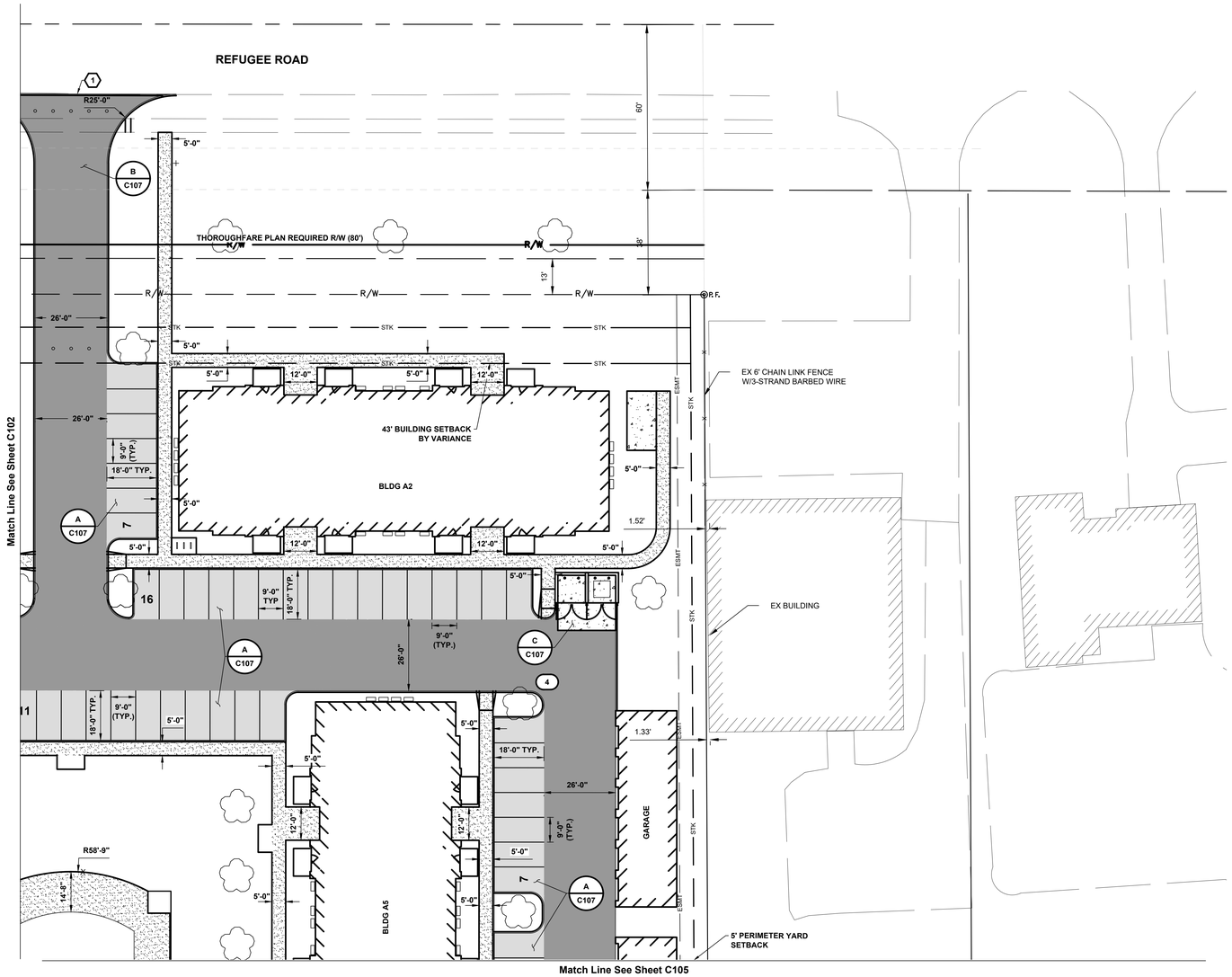
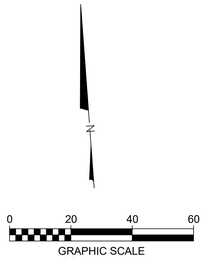




STAKING LEGEND

EXISTING

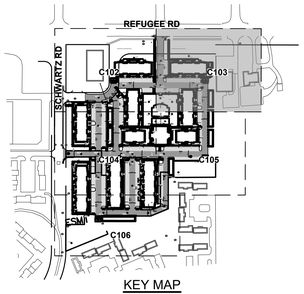
REFER TO SHEET TS1

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- FENCE
- BOLLARD
- PAINTED WHEELCHAIR SYMBOL
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C103

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 7:40 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing: R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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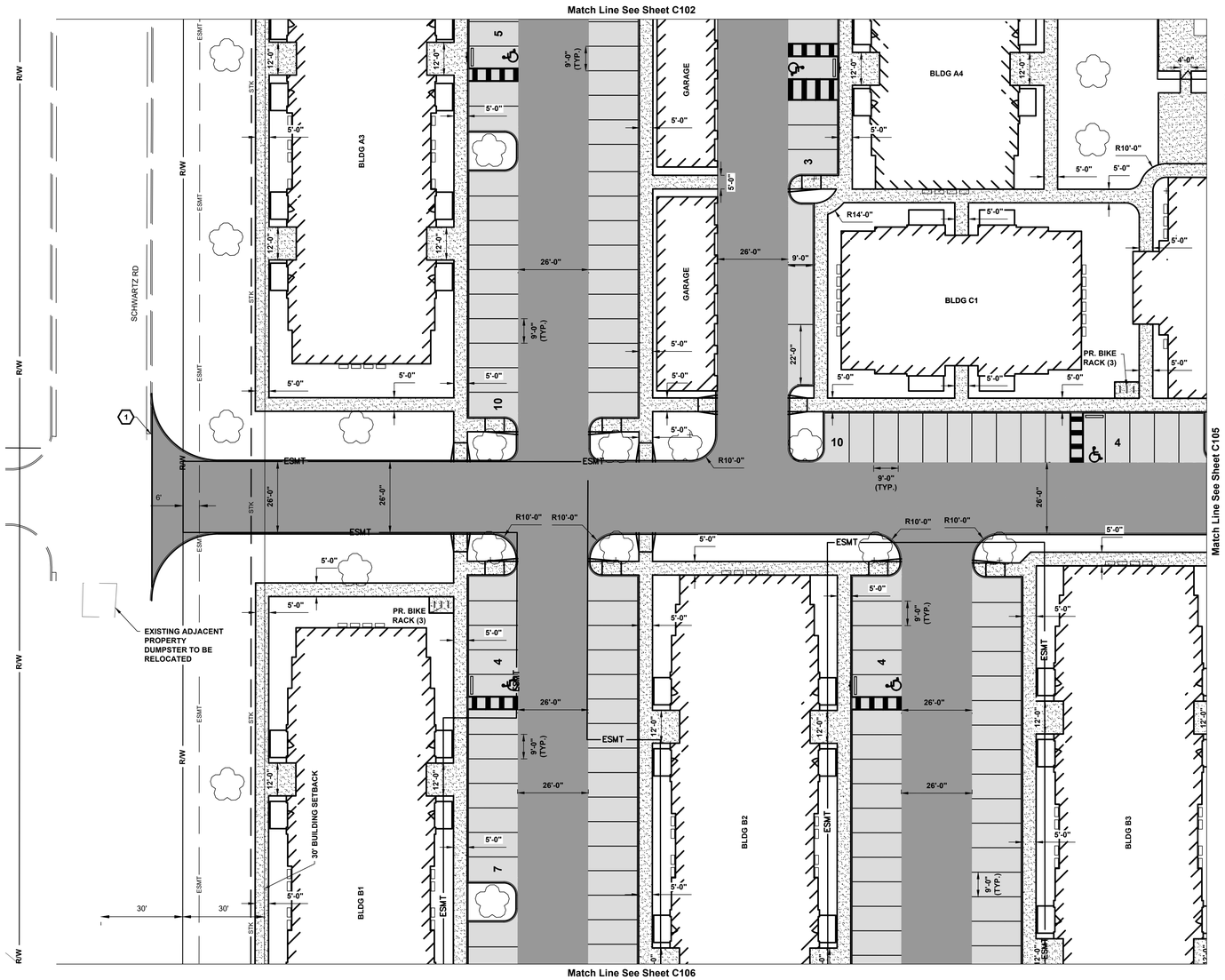
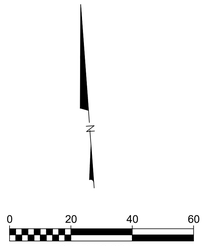




STAKING LEGEND

EXISTING

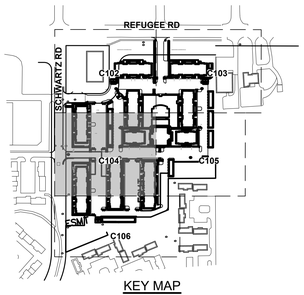
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- FENCE
- BOLLARD
- PAINTED WHEELCHAIR SYMBOL
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C104

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REVIT VERSION: 2023
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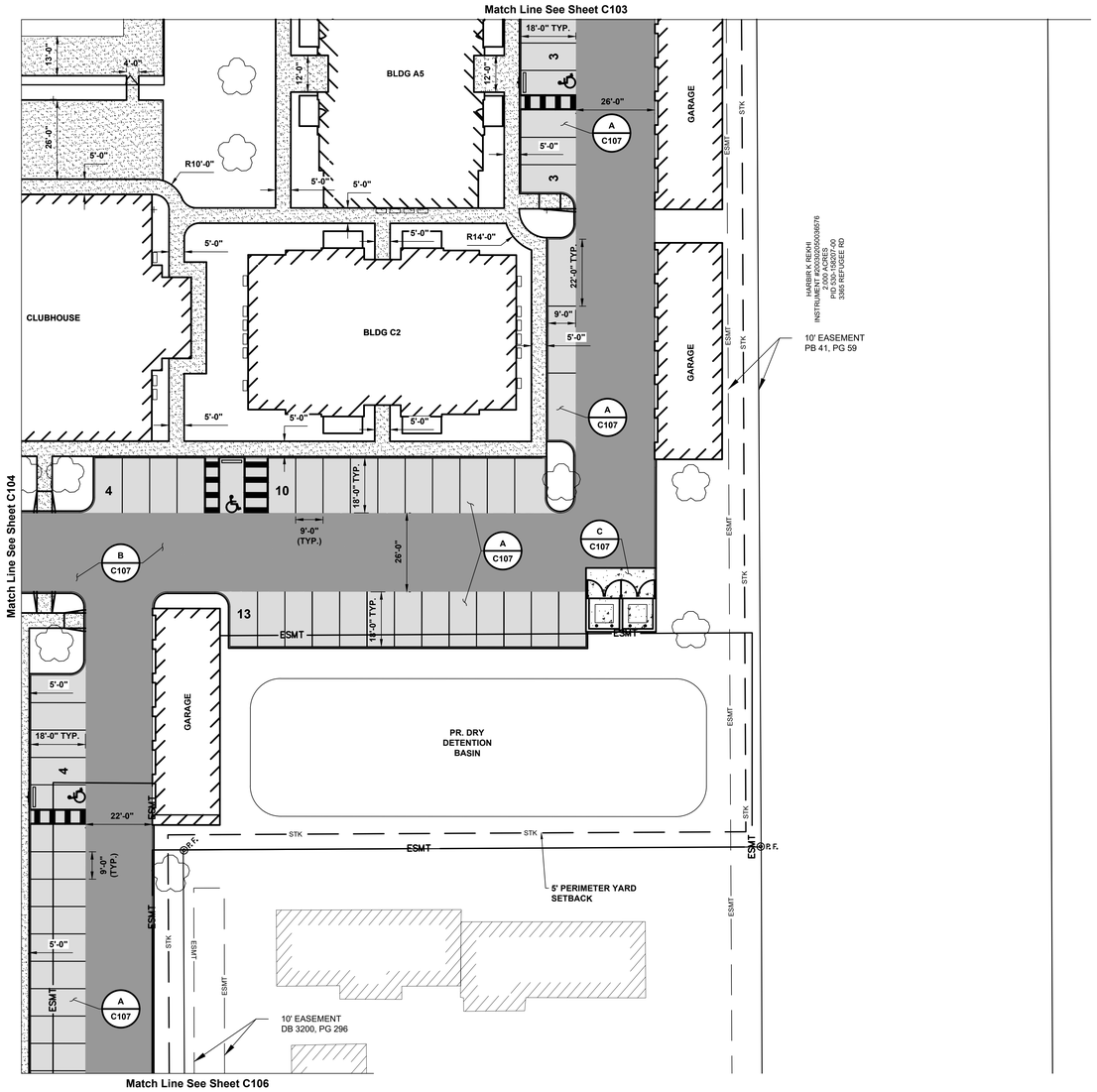

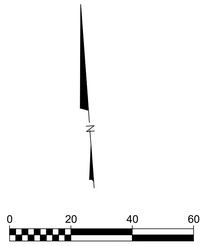

STAKING LEGEND

EXISTING

REFER TO SHEET C101

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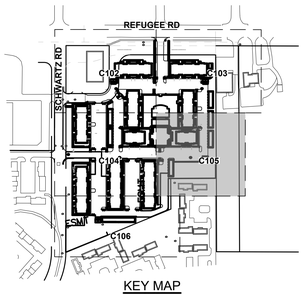

KEY MAP
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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C105

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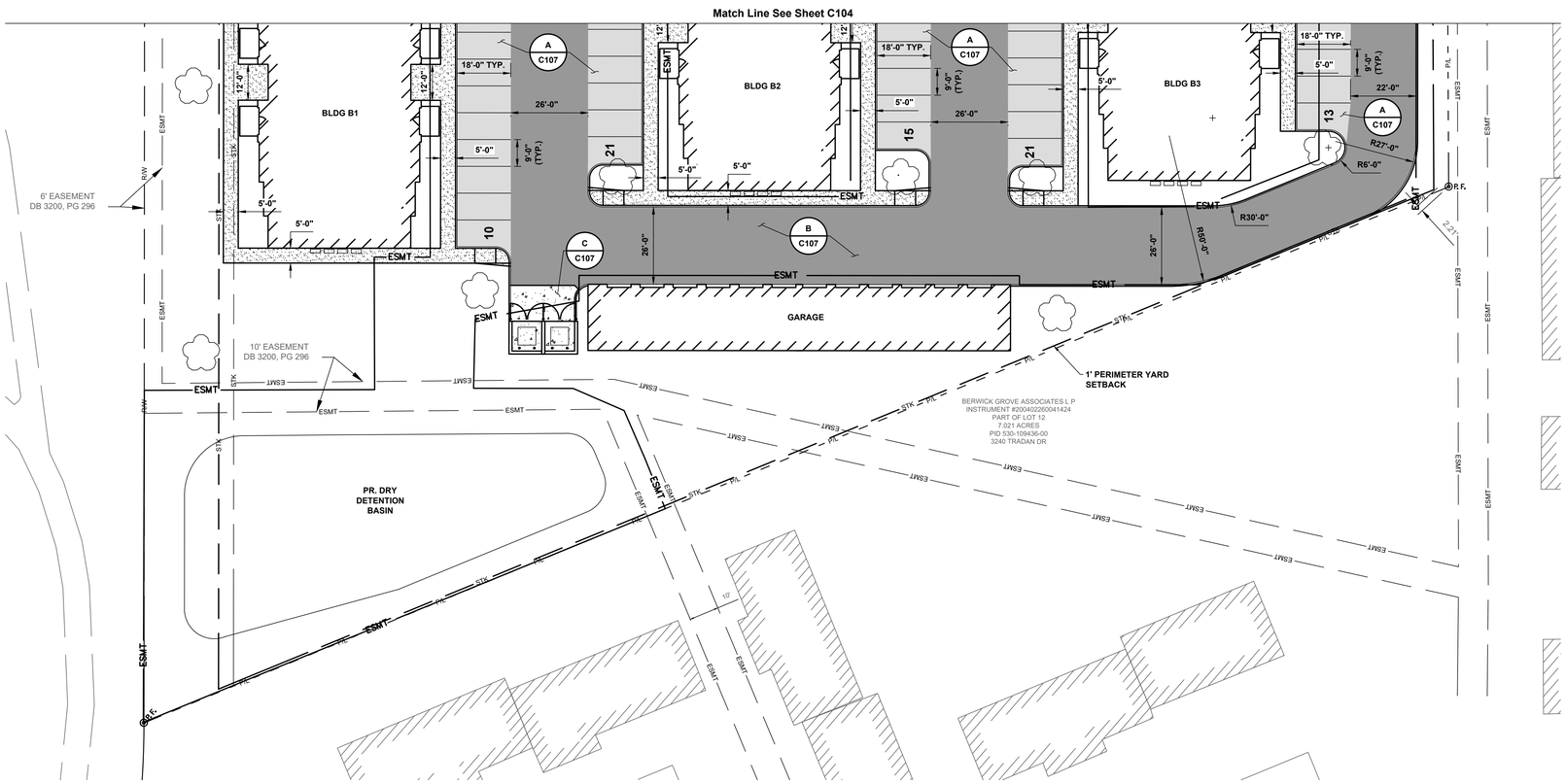

N

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

STAKING LEGEND

EXISTING

REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
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CODED NOTES:

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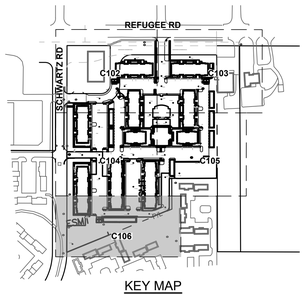

KEY MAP
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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C106

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
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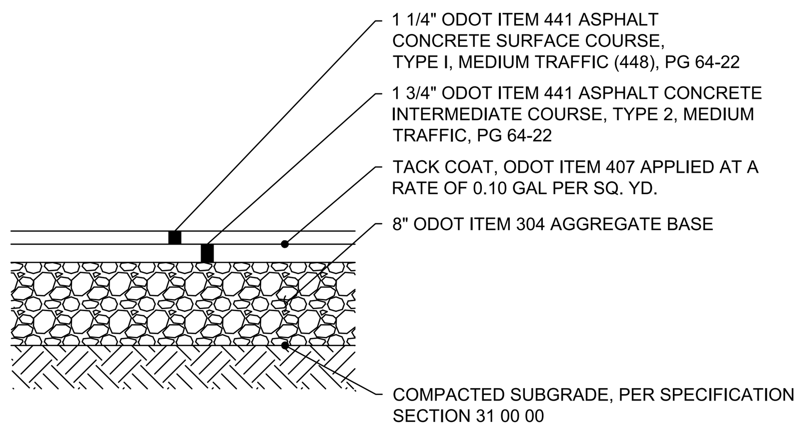
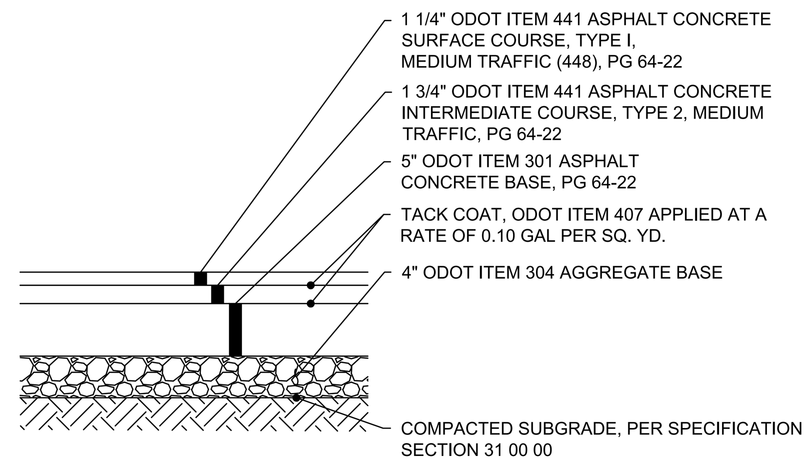


NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
4. *THE OWNER'S TESTING AGENCY WILL* PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 448 AND SUPPLEMENTAL SPECIFICATION 1055, *EXCEPT THAT AN INDEPENDENT TESTING LABORATORY WILL PERFORM THE TESTING AND REPORT DATA TO THE OWNER'S REPRESENTATIVE. THE AGENCY PERFORMING THE TESTING MUST HAVE A CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM ODOT.*
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

A DETAIL
LIGHT DUTY ASPHALT PAVEMENT N.T.S.



NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
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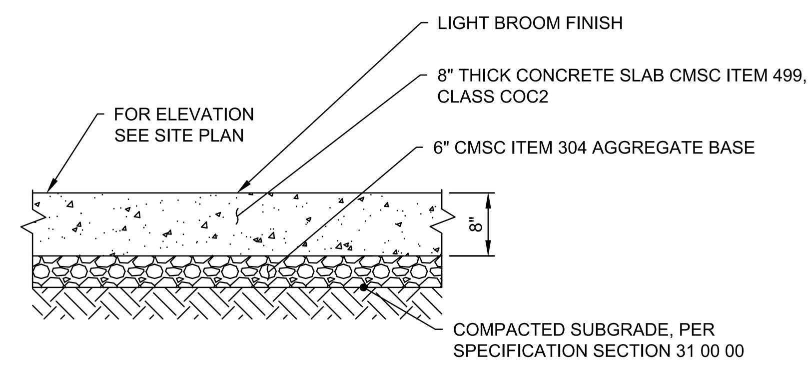
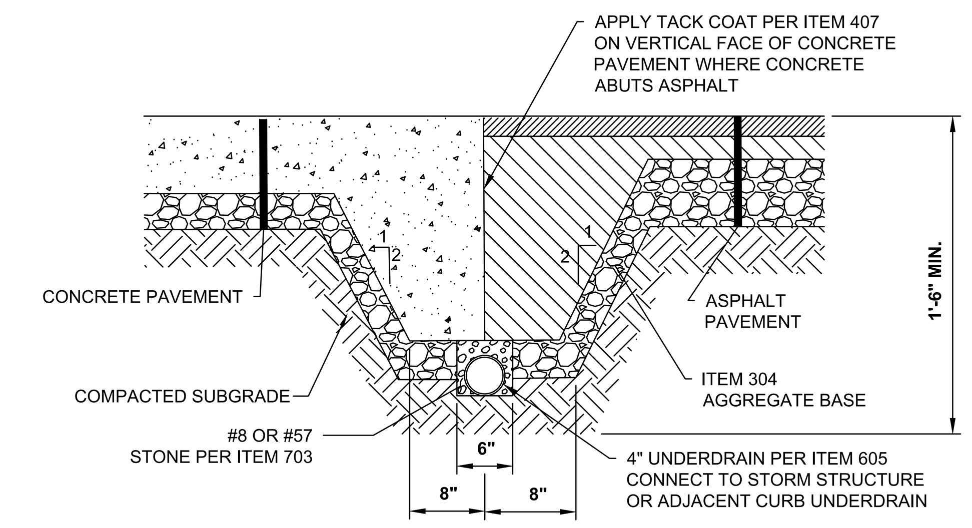
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

B DETAIL
HEAVY DUTY ASPHALT PAVEMENT N.T.S.



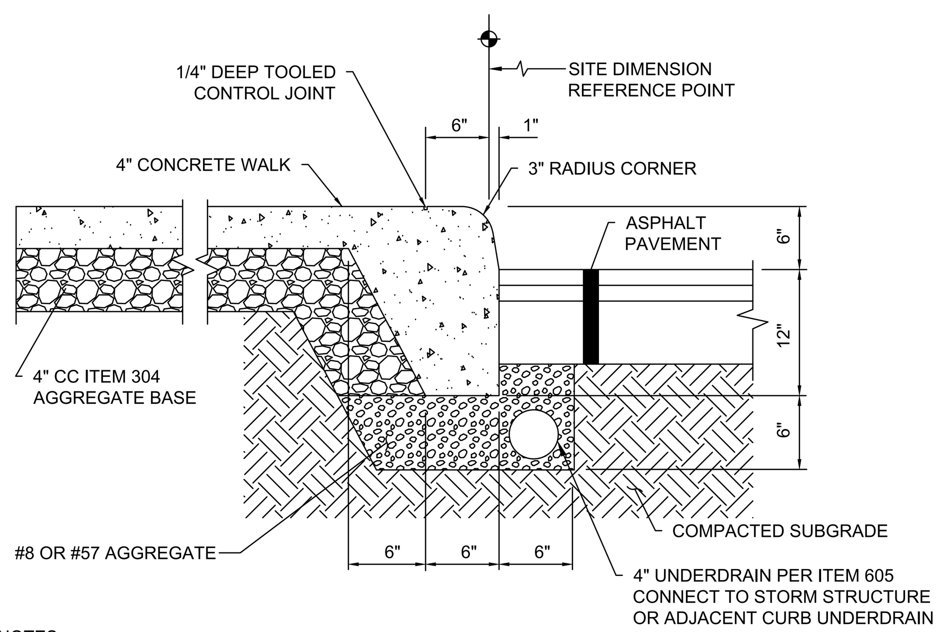
NOTES:
1. PROVIDE JOINTS AS INDICATED ON DRAWINGS. IN ABSENCE OF INFORMATION ON THE DRAWINGS, LOCATE AS SPECIFIED IN SECTION 32 13 00.
2. PROVIDE CONTROL AND ISOLATION JOINTS PER DETAILS F AND G, THIS SHEET.
3. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
4. PENETRATING SEALER: ACCEPTABLE PRODUCTS OR APPROVED EQUAL:
   A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   B. PROSOCO - SALTGUARD WB
   C. HULS AMERICA INC. - CHEM-TRETE BSM 40
   D. MASTER BUILDERS INC. - MASTERSEAL SL 40
   E. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   F. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   G. TEX-COTE - RAINSTOPPER RS140
5. IF CONCRETE INSTALLED OCTOBER-MARCH, WAIT UNTIL APRIL-SEPTEMBER TO APPLY PENETRATING SEALER. IF SCHEDULE DOES NOT ALLOW FOR APPLICATION OF SEALER, PROVIDE CREDIT FOR NON-PERFORMANCE.

C DETAIL
HEAVY DUTY CONCRETE SLAB N.T.S.



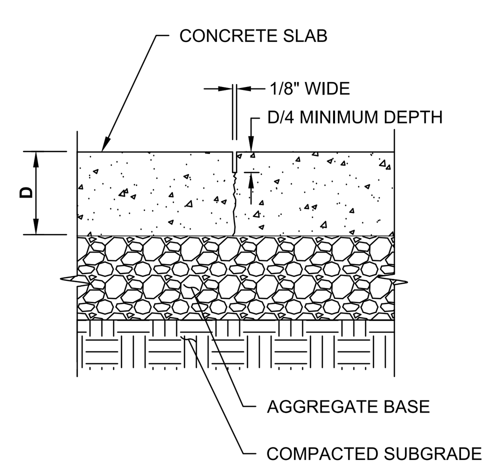
NOTE:
1. CONTRACTOR SHALL PROVIDE TURNDOWN ANYWHERE ASPHALT AND CONCRETE OR CONCRETE BASE PAVEMENT MEET.

D DETAIL
ASPHALT CONCRETE TURNDOWN SLAB N.T.S.



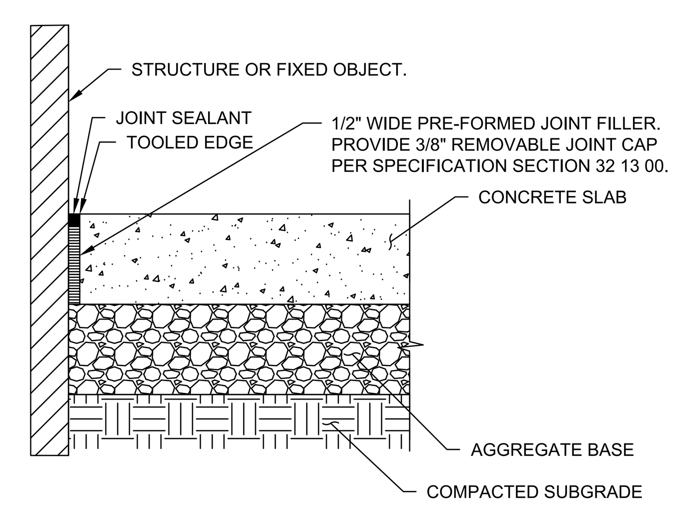
NOTES:
1. PROVIDE CONTROL JOINTS IN CURB AND WALK AS INDICATED IN SPECIFICATION SECTION 32 13 00 AND DETAIL F/C107.

E DETAIL
INTEGRAL CONCRETE WALK AND CURB N.T.S.



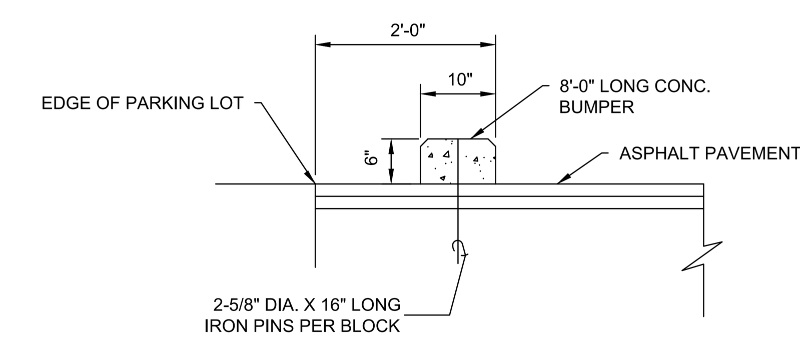
NOTES:
1. PLACE CONTROL JOINTS WITHIN 8 HOURS OF CONCRETE PLACEMENT AND AT LOCATIONS INDICATED ON THE STAKING PLAN. IF JOINTS ARE NOT SHOWN ON STAKING PLAN, PROVIDE AT LOCATIONS INDICATED BELOW:
   A. SPACING (IN FEET) SHALL BE BETWEEN 2 TO 2-1/ 2 TIMES SLAB THICKNESS (IN INCHES IN BOTH DIRECTIONS (I.E. 4" SLAB SHALL HAVE JOINT SPACING OF 8-10 FEET).
   B. GRID OF CONTROL JOINTS SHALL BE APPROXIMATELY SQUARE WITH LONGEST SIDE TO BE NOT LONGER THAN 1.5 TIMES THE SHORTEST SIDE (I.E. 4 FOOT WIDE WALK SHALL HAVE JOINT SPACING AT 4-6 FEET).

F DETAIL
SAW CUT CONCRETE CONTROL JOINT-LONGITUDINAL OR TRANSVERSE N.T.S.

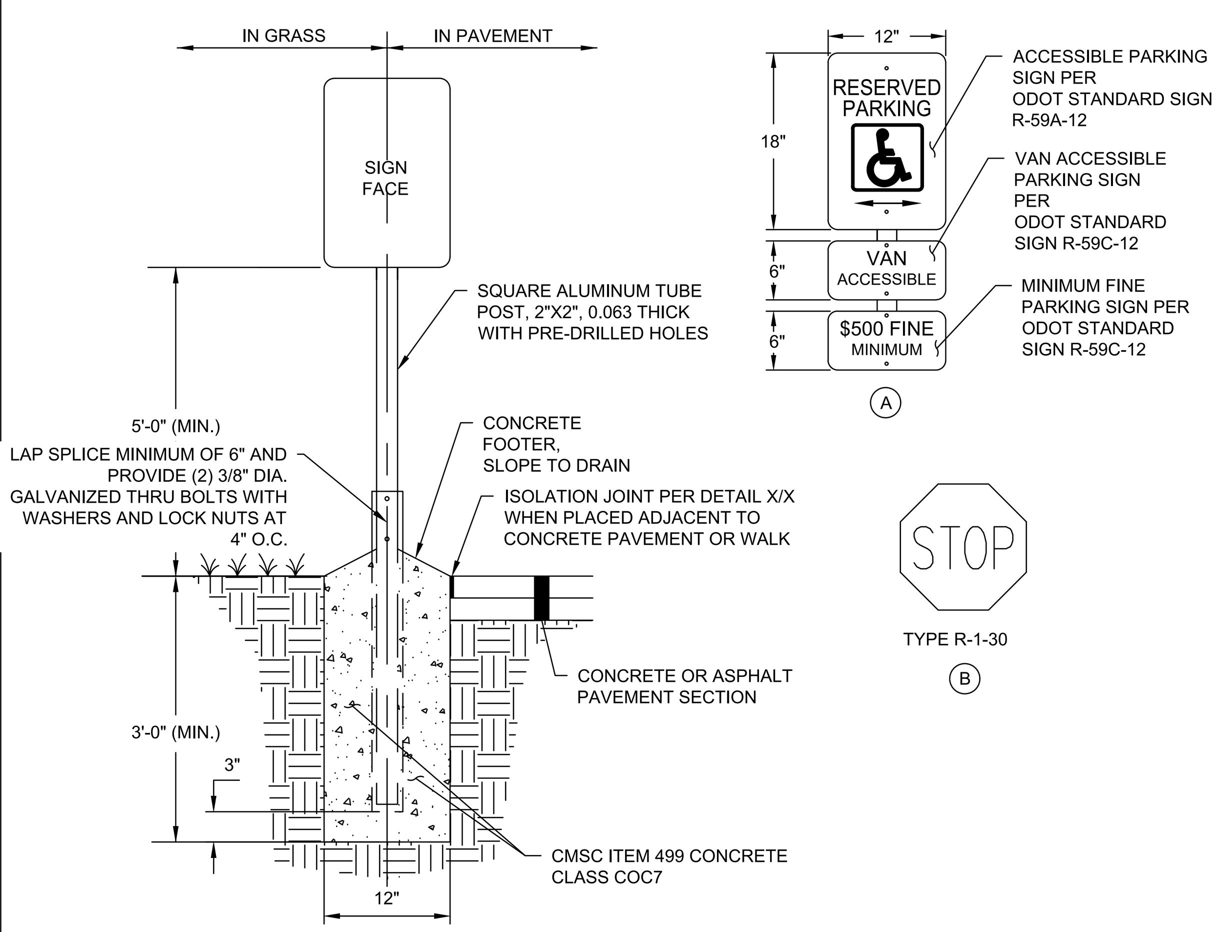


NOTES:
1. PLACE ISOLATION JOINTS WHERE NEW CONCRETE SLAB ABUTS STRUCTURES OR FIXED OBJECTS INCLUDING: BUILDINGS, WALLS, COLUMNS, POLE BASES, CURBS, CATCH BASINS, EXISTING CONCRETE, OR AS NOTED ON THE STAKING PLAN.
2. PROVIDE AT FORMED EDGE OF PREVIOUSLY POURED SLABS. SEAL JOINT WITH JOINT SEALANT, SEE SPECIFICATION SECTION 32 13 00.
3. SUBMIT SAMPLE FOR COLOR APPROVAL. PRE-FORMED JOINT FILLER - NON-IMPREGNATED TYPE, CLOSED CELL RESILIENT POLYETHYLENE FOAM, 1/2" THICK UNLESS OTHERWISE NOTED, CERAMAR FLEXIBLE FOAM EXPANSION JOINT BY W.R. MEADOWS OR EQUAL MEETING THE REQUIREMENTS OF ASTM D 1752 SECTIONS 5.1 THROUGH 5.4. REFER TO SPECIFICATION SECTION 32 13 00.

G DETAIL
CONCRETE ISOLATION JOINT N.T.S.

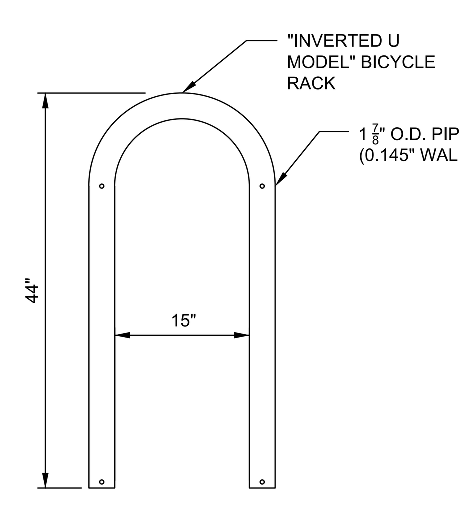


H DETAIL
BUMPER BLOCK N.T.S.



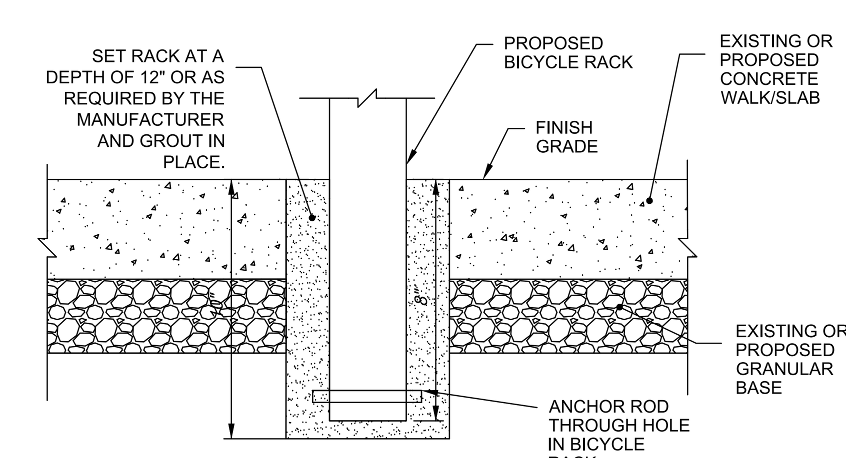
NOTES:
1. PROVIDE SIGN IN ACCORDANCE WITH ODOT ITEM 630.
2. PROVIDE 0.063 THICK, FLAT ALUMINUM SIGN PANELS.
3. PROVIDE REFLECTIVE FINISH ON SIGN.
4. PROVIDE PERMANENT WEATHERPROOF ALUMINUM CAP ON POST TOP.
5. PROVIDE "VAN ACCESSIBLE" SIGN WHERE NOTED ON DRAWINGS.
6. ATTACH SIGNS WITH UNISTRUT UNIVERSAL DRIVE RIVET OR APPROVED EQUAL.
7. ACCESSIBLE SIGNAGE TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.

I DETAIL
PARKING SIGNS N.T.S.



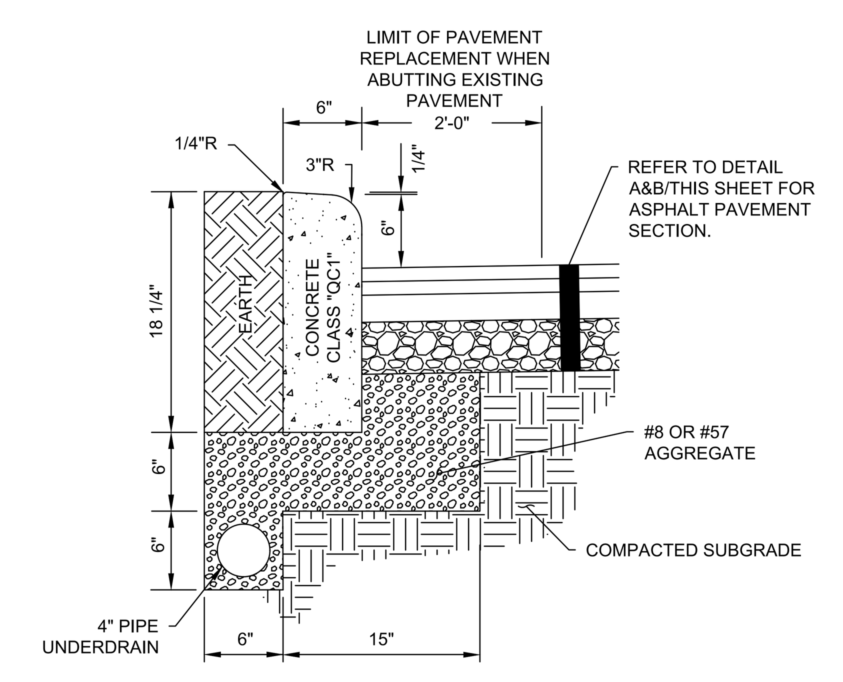
NOTES:
1. RACK SHALL BE HOT DIP GALVANIZED STEEL.
2. COORDINATE COLOR WITH ARCHITECT.

J DETAIL
INVERTED U MODEL BICYCLE RACK N.T.S.



NOTE:
1. EXCAVATE HOLE TO A DEPTH OF 14" FOR PROPOSED BIKE "HITCH" AND GROUT IN PLACE. BIKE HITCH SHALL BE EMBEDDED 12".

K DETAIL
BICYCLE RACK EMBEDMENT N.T.S.



NOTES:
1. ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOATED AND BRUSH FINISHED, UNLESS PLACED BY A CURB MACHINE.
2. PROVIDE JOINTS PER SPECIFICATION SECTION *02750* *32 13 00*.

L DETAIL
STRAIGHT 18" CONCRETE CURB WITH UNDERDRAIN N.T.S.

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DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
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CMHA

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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STAKING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

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C107
CD PROGRESS SET

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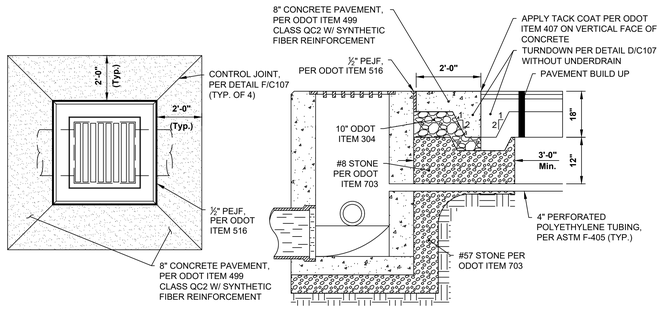

PLAN VIEW

SECTION VIEW

NOTES:

1. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE:
   a. NYCON NYLON FIBERS
   b. FORTA NYLO-MONO FIBERS
   c. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS
   d. GRACE POLYPROPYLENE FIBERS

   SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.

2. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/M² IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.

3. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
   a. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   b. PROSOSO - SALTGUARD WB
   c. HULS AMERICA INC. - CHEM-TRETE BSM 40
   d. MASTER BUILDERS INC. - MASTERSEAL SL 40
   e. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   f. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   g. TEX-COTE - RAINSTOPPER RS140

4. PROVIDE CONCRETE COLLAR AT ALL CATCH BASINS AND MANHOLES WITHIN PROPOSED PAVEMENT.

A DETAIL
CONCRETE COLLAR AT CATCH BASINS/MANHOLES **N.T.S.**

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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Moody Nolan
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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STAKING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

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C108

CD PROGRESS SET

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KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
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DRAWN BY: EAM
DESIGNED BY: EAM
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CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO
PRIVATE STORM SEWER AND STORMWATER FACILITIES
FOR
CMHA REFUGEE ROAD HOUSING DEVELOPMENT
2024

ESTIMATE OF QUANTITIES

These quantities have been provided only as an estimate to the scope of the work for inspection purposes only. The Contractor is soley responsible to evaluate the complete project as detailed in the notes, plans, and specifications and procedures necessary for the completion of the plan improvements and submit his total project cost accordingly. Deviation between the plans and the quantities shall not be cause for additional compensation. Submission of bid means acceptance of entire project, whether or not described in the table below.
Calculated By: CAH Date: 3/28/2025 Checked By: EJW Date: 3/28/2025

ITEM	QUANTITY	UNIT	DESCRIPTION
			EROSION CONTROL
207	1	EA	STABILIZED CONSRUCTION ENTRANCE
207	39	EA	INLET PROTECTION
207	1	EA	CONCRETE WASHOUT
207	2451	LF	SILT FENCE
207	14807	SF	EROSION MATTING
207	2	EA	SEDIMENT MONITOR
			STORM SEWER
604	19	EA	CATCH BASIN PER AA-S133A
604	12	EA	CATCH BASIN, PER AA-S133B
604	7	EA	CURB INLET PER AA-S121
604	17	EA	MANHOLE, TYPE "C" PER AA-S102
604	2	EA	HEADWALL PER AA-S168
604	1	EA	OUTLET STRUCTURE PER DETAIL A/C210
604	1	EA	OUTLET STRUCTURE PER DETAIL B/C210
604	1	EA	OUTLET STRUCTURE PER DETAIL A/C211
604	1	EA	VERTICAL ORIFICE PLATE PER STD. DWG. AA-S145
901	1126	LF	12" STORM PIPE, WITH TYPE 1 BEDDING
901	319	LF	18" STORM PIPE, WITH TYPE 1 BEDDING
901	745	LF	24" STORM PIPE, WITH TYPE 1 BEDDING
901	502	LF	36" STORM PIPE, WITH TYPE 1 BEDDING
SPEC	1	LUMP	ADS MC-3500 UNDERGROUND STORMWATER DETENTION STRUCTURE (351 CHAMBERS, 30 END CAPS, 14 INSPECTION PORTS)
SPEC	3	EA	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR POST-CONSTRUCTION STORMWATER CONTROL PRACTICE

PROPERTY OWNERS

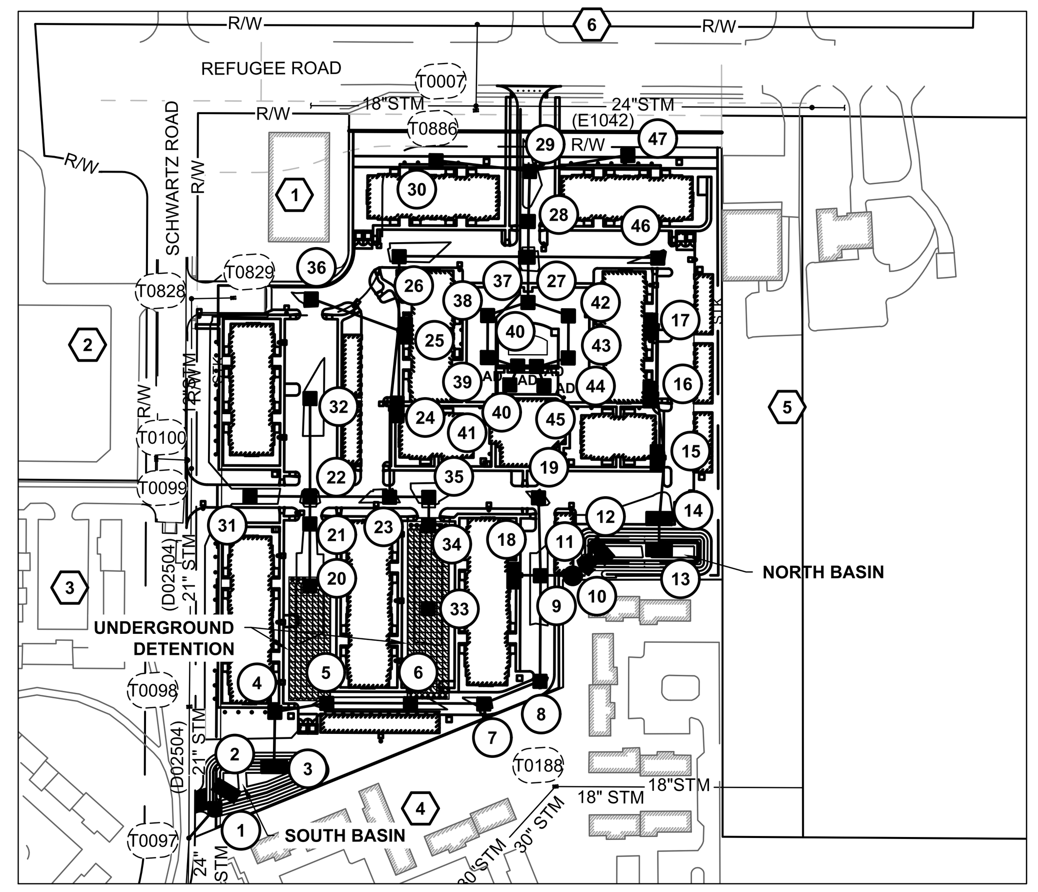
X	OWNER NAME	PARCEL	ADDRESS	ACREAGE
1	DG BUFFALO 1031 LLC	530-292866	3349 REFUGEE RD	0.82
2	THOMPSON JAMES T	530-182793	3333 REFUGEE RD	0.26
3	BERWICK GROVE ASSOCIATES L P	530-156558	2815 BERWICK SQ	10.08
4	BERWICK GROVE ASSOCIATES L P	530-109436	3240 TRADAN DR	7.05
5	REKHI HARBIR K	530-158207	3365 REFUGEE RD	2.01
6	FIRST CHURCH OF GOD INC	010-109331	3480 REFUGEE RD	92.13

SANITARY SEWER NOTE

CONNECTION TO SANITARY SEWER CANNOT BE MADE UNTIL PERMIT IS OBTAINED FROM SEWER PERMIT OFFICE AT 111 N. FRONT ST. (614) 645-7490. SANITARY SERVICES ARE SHOWN ON THIS PLAN FOR REFERENCE ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THE SANITARY SERVICES, OR THEIR LOCATIONS. CONTACT THE DPU PERMIT OFFICE AT 111 N. FRONT ST FOR SANITARY SERVICE APPROVAL.

SCP WATER QUALITY STRUCTURE NOTE

THE WATER QUALITY STRUCTURES 1, 4 AND 10 ARE STORMWATER CONTROL PRACTICES (SCP) AND ARE AN INTEGRAL PART OF THE PRIVATE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THESE STORMWATER QUALITY DEVICES IS PERPETUAL; BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM. STORM WATER QUALITY DESIGN FOR THIS PROJECT IS COMPLIANT WITH OHIO EPA GENERAL CONSTRUCTION STORM WATER PERMIT N . OHC000006, ISSUED APRIL 23, 2023.



INDEX MAP
1"=150'

FINAL SITE COMPLIANCE PLAN	XXXXX-XXX
WATER SERVICE PLAN	WSPXXXX

100 YEAR DETENTION TABLE

LOCATION	OUTLET CONTROL STRUCTURE	DETENTION VOLUME REQUIRED (CF)	DETENTION VOLUME PROVIDED (CF)	VOLUME PROVIDED AT ELEVATION	100 YEAR ELEVATION	VOLUME PROVIDED AT 100 YR ELEV.
SOUTH BASIN	1	15,926	19,985**	757.00	756.37	15,926**
UNDERGROUND DETENTION	5	62,636	**62,639****	**758.00***	758.00	62,636**
NORTH BASIN	11	9,692	**9,810****	**757.00**	756.98	9,692**
PIPE STORAGE	**N/A**	N/A	**5,456**	**N/A**	N/A	**5,456**

*ELEV. 758.00 - TOP OF UNDERGROUND STORAGE SYSTEM
**INCLUDES PIPE STORAGE

NOTE 1: STORMWATER CONTROL PRACTICE (SCP) AS-BUILTS AND CERTIFICATION ARE REQUIRED FOR THE CONSTRUCTED SCPs ON THIS PLAN SET AS PART OF THE SURETY REQUIREMENTS FOUND WITHIN THE STORMWATER DRAINAGE MANUAL (SWDM) SECTION 4. PLEASE REFER TO SECTION 4 OF THE SWDM FOR THE FULL LIST OF REQUIREMENTS. PLEASE NOTE THAT IF THERE ARE STONE LAYERS USED AS PART OF THE STORAGE SYSTEM THAT THOSE LAYERS MUST BE SURVEYED DURING THE INSTALLATION BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED SURVEYOR.

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	PLAN VIEW & DETAIL PAGE NUMBERS FOR SCP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY	FACILITY TYPE	GREEN INFRASTRUCTURE (SQUARE FEET)
1	9(C209) & A/10(C210)	QUALITY & QUANTITY	0.84	EXTENDED DRY DETENTION BASIN	N/A
5	9(C209) & B/10(C210)	QUALITY & QUANTITY	7.15	UNDERGROUND DETENTION	N/A
11	8(C208) & 10(C210)	QUALITY & QUANTITY	1.310	EXTENDED DRY DETENTION BASIN	N/A

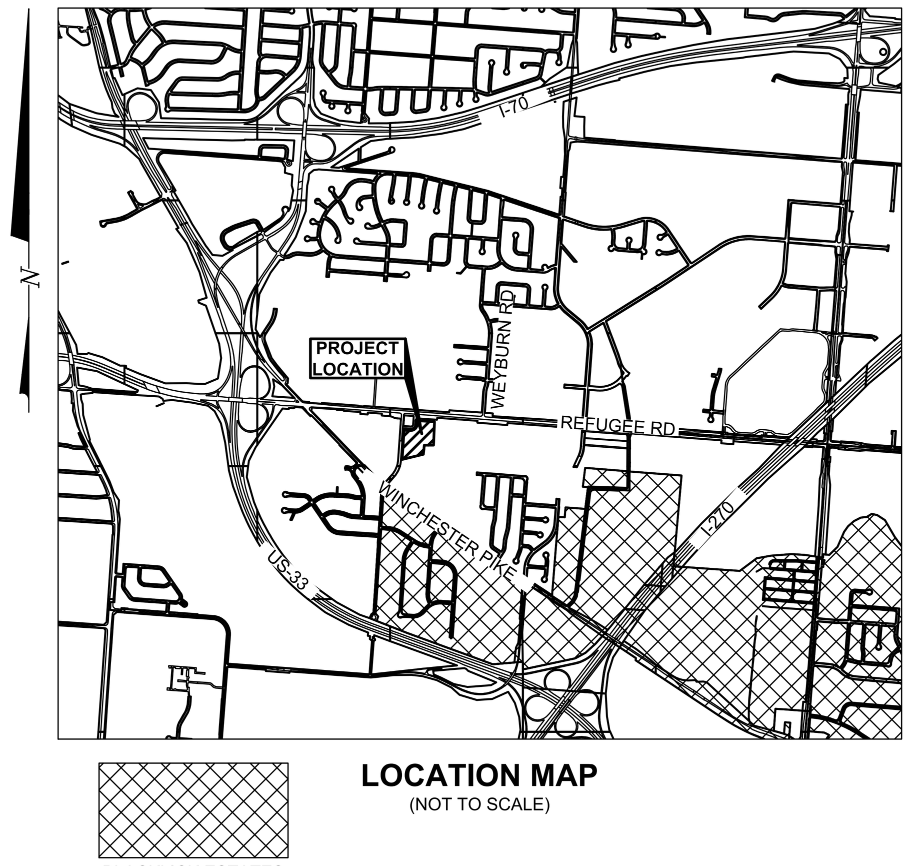
NOTE 1: THESE SCP FACILITIES ALSO PROVIDE STORM WATER QUANTITY AND QUALITY CONTROLS FOR IMPROVEMENTS AS SHOWN ON THIS CC PLAN.

SITE DATA TABLE

CMHA REFUGEE ROAD SITE

TOTAL SITE:	9.22 AC.
TOTAL SITE "DISTURBED":*	9.30 AC.
DISTURBED IMPERVIOUS AREA:	0.01 AC.
TOTAL R/W DISTURBED:	0.08 AC.
PRE-DEVELOPMENT IMPERVIOUS:	0.01 AC.
POST-DEVELOPMENT IMPERVIOUS:	6.47 AC.

*INCLUDES R/W DISTURBANCE R/W DISTURBANCE IS ADDRESSED AND ACCOUNTED FOR WITH DETENTION PROVIDED UNDER THIS STORM CC PLAN



LOCATION MAP
(NOT TO SCALE)

ARCHITECT
NAME MOODY NOLAN
ADDRESS 300 SPRUCE ST SUITE 300
CONTACT: ANUP JANARDHANAN
P: 614-461-4664
EMAIL: ANUPJ@MOODYNOLAN.COM

OWNER
NAME COLUMBUS METROPOLITAN HOUSING AUTHORITY
ADDRESS 880 E 11TH AVE
CONTACT: MIKE WAGNER
P: 614-421-6000
EMAIL: MWAGNER@CMHANET.COM

ENGINEER
NAME KORDA/NEMETH ENGINEERING
ADDRESS 1650 WATERMARK DR
CONTACT: ERIC WALSH
P: 614-487-1650
EMAIL: ERIC.WALSH@KORDA.COM

SHEET INDEX

CC SHEET	SHEET	DESCRIPTION
1/24	C201	TITLE SHEET
2-3/24	(C202-C203)	GENERAL NOTES
4/24	(C204)	OVERALL STORM SEWER & GRADING PLAN
5-9/24	(C205-C209)	STORM SEWER & GRADING PLAN
10-13/24	(C210-C213)	STORM SEWER DETAILS
14-16/24	(C214-C216)	STORM SEWER PROFILES
17/24	(C217)	OVERALL EROSION AND SEDIMENT CONTROL PLAN
18-22/24	(C218-C222)	EROSION AND SEDIMENT CONTROL PLAN
23-24/24	(C223-C224)	EROSION AND SEDIMENT CONTROL DETAILS

STANDARD DRAWINGS

THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF.

AA-168 1441 (7/1/2024)
AA-S133A
AA-S133B
AA-S102
AA-S120
AA-S141

FEMA NOTE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE MAP (DATED 6/17/2008) THE SUBJECT PARCEL SHOWN HEREIN LIES WITH ZONE X, COMMUNITY PANEL NO 39049C0341K. THIS PROJECT WILL NOT REQUIRE ANY WORK IN THE FLOOD PLAIN, FLOOD WAY, OR STREAM CORRIDOR PROTECTION ZONE.

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - WEB www.korda.com

STATE OF OHIO
ERIC J. WALSH
E-80715
REGISTERED PROFESSIONAL ENGINEER

4/2/2025
REGISTERED ENGINEER NO. DATE

APPROVED: APPROVALS: SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. **APPROVAL FOR STORM WATER DRAINAGE ONLY.**

CITY ENGINEER / ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION — DATE
ADMINISTRATOR, DIVISION OF POWER — DATE
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE — DATE
ADMINISTRATOR, DIVISION OF WATER — DATE

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 150' VERT 1" = N/A
SHEET: 1 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
TITLE SHEET

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C201
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C201 TITLE SHEET.dwg Saved Date:01-May-2025 5:38 PM Plot Date:9:09 AM Saved By: EMEHAN

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 5:38 PM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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GENERAL NOTES

SW 1. THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2025 EDITION, REVISION (01/01/2025), INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

SW 2. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:
- DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102
- DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433

SW 3. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

SW 4. CONSTRUCTION OF THIS PROJECT MAY NOT BEGIN UNTIL THE EASEMENTS INDICATED HAVE BEEN RECORDED BY THE CITY.

SW 5. THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A REPAVING GUARANTEE.

SW 6. ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR OF THE DIVISION OF SEWERAGE AND DRAINAGE.

SW 7. ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT VERSION.

SW 8. ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

SW 9. EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NO. 18(C217)-25(C224) OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

SW 10. IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614) 645-6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.

SW 11. THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIME CONVENIENT TO THE CONTRACTOR.THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:
1. PROPER PLACEMENT OF EACH STRUCTURE.
2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.
3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

SW 12. THE AMOUNT OF FILL WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS 0 C.Y. THE AMOUNT OF FILL COMPENSATED WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS 0 C.Y.

SW 13. THE PONDING OR DETENTION AREAS ON THE PLANS ARE A PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING AND DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEYS TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORMWATER CONTROL FACILITIES. AT THE COMPLETION OF CONSTRUCTION, THE OWNER/DEVELOPER SHALL FIELD SURVEY THE STORMWATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.

SW 14. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

DEWATERING

IN THE EVENT THAT DEWATERING IS NECESSARY, THE CONTRACTOR IS REQUIRED TO PREPARE A DEWATERING PLAN THAT WILL DESCRIBE HOW THE DEWATERING OPERATION WILL BE COMPLETED AND HOW THE PUMP EFFLUENT WILL BE MANAGED. THIS PLAN WILL BE PRESENTED TO THE CITY FOR REVIEW PRIOR TO ANY DEWATERING OPERATIONS.

INSTALLATION OF ANY WELL, WELL POINT PIT OR OTHER WITHDRAWAL DEVICE USED FOR THE PURPOSE OF REMOVING GROUNDWATER FROM ANY AQUIFER SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR).

INSTALLATION OF ANY WELL, WELL POINT PIT OF OTHER DEVICE USED FOR THE PURPOSE OF LOWERING THE GROUNDWATER LEVEL TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR AS DIRECTED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIRECTOR OR THEIR REPRESENTATIVES. THE CONTRACTOR IS SOLELY RESPONSIBLE TO THE ODNR FOR REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICES USED FOR IN THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE AND FILE A WELL LOG AND A DRILLING REPORT FORM WITH ODNR, DIVISION OF WATER WITHIN 30 DAYS OF THE COMPLETION OF INSTALLATION OF ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUNDWATER FROM AN AQUIFER. THIS IN ACCORDANCE WITH SECTION 1521.01 AND 1521.05 OF THE OHIO REVISED CODE. IN ADDITION, ANY SUCH FACILITY THAT HAS A CAPACITY TO WITHDRAWAL WATERS OF THE STATE IN AN AMOUNT GREATER THAN 100,000 GALLONS PER DAY FROM ALL SOURCES SHALL BE REGISTERED BY THE CONTRACTOR WITH THE CHIEF OF THE ODNR, DIVISION OF WATER, WITHIN THREE MONTHS OF THE COMPLETION OF THE FACILITY IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. COPIES OF THE NECESSARY PAPERWORK CAN BE OBTAINED AT ODNR, DIVISION OF WATER, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224-1387, PHONE (614) 265-6717.

SHOULD WATER BE ENCOUNTERED, THE CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY TO ADEQUATELY DEWATER THE TRENCH PER CMSC ITEM 901.06. THE TRENCH SHALL BE SUFFICIENTLY DEWATERED SO THAT PLACEMENT OF BEDDING AND LAYING AND JOINING OF THE PIPE OR STRUCTURES IS MADE ON FIRM, DRY GROUND. THE CONTRACTOR SHALL CONVEY ALL TRENCH WATER TO A NATURAL DRAINAGE CHANNEL OR STORM SEWER WITHOUT CAUSING DAMAGE TO THE PROPERTY BY UTILIZING PROPER EROSION AND SEDIMENT CONTROLS. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS; THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES. THE COST OF DEWATERING WORK SHALL BE INCLUDED IN THE BID PRICE FOR VARIOUS ITEMS WITHIN THE CONTRACT.

IF DURING CONSTRUCTION OF THE SEWER, THE WATER WELLS BELONGING TO NEARBY RESIDENCES ARE DEWATERED, THE CONTRACTOR SHALL PROVIDE POTABLE WATER TO THE RESIDENTS AND IF THE WELL IS UNABLE TO BE RECOMMISSIONED AFTER CONSTRUCTION, A TAP TO A WATERLINE SHALL BE PROVIDED IF AVAILABLE OR ANOTHER WELL DUG, AT NO EXTRA COST TO THE RESIDENTS.

STORM CONTROL FACILITY AS-BUILT SURVEY

CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE STORMWATER CONTROL FACILITY PREPARED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SURVEYOR. SURVEY SHALL INCLUDE FIELD VERIFICATION OF ELEVATIONS, DIMENSIONS, AND LOCATION OF STORMWATER CONTROL FACILITY, ASSOCIATED STRUCTURES, INVERT ELEVATIONS FOR ALL PIPES AND CONTROL FEATURES, PIPE SIZES, AND MATERIAL. SURVEY SHOULD MEET COLUMBUS STORMWATER DRAINAGE MANUAL REQUIREMENTS.

CONTRACTOR SHALL CONFIRM ELEVATIONS MATCH PLANS IN FIELD BEFORE THE COMPLETION OF CONSTRUCTION ON EACH ITEM OF THE STORMWATER CONTROL FACILITY AND ASSOCIATED STRUCTURES AND MATERIAL. IF ELEVATION, DIMENSIONS, OR LOCATION DIFFERS FROM THE PLANS, THE ENGINEER SHALL BE NOTIFIED BEFORE COMPLETION OF CONSTRUCTION OF THE STORMWATER CONTROL FACILITY. IN BURIED DETENTION SYSTEMS, BOTTOM OF SYSTEM, BOTTOM OF STONE, AND TOP OF STONE SHOULD BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING SYSTEM. DISCREPANCIES BETWEEN THE PLANS FINISHED CONSTRUCTION WILL BE RESTORED BY THE CONTRACTOR AT THEIR EXPENSE.

DIVISION OF POWER NOTE

THE DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT PROCEDURE, MIS-1 , COPIES OF WHICH ARE AVAILABLE FROM DOP. IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

COLUMBUS RECREATION AND PARKS DEPARTMENT STANDARD PLAN NOTE

PRIOR TO SUBMISSION OF FINAL SITE COMPLIANCE PLAN, ANY ENTITY REQUESTING NON-PARK USE/DEVELOPMENT MUST REQUEST A NON-PARK USE OF PARKLAND (NPUP) APPLICATION FROM COLUMBUS RECREATION & PARKS DEPARTMENT (CRPD) AT CRPD_NPUP@COLUMBUS.GOV . IF THE NPUP IS APPROVED, CRPD WILL ISSUE A PERMIT TO ENTER CRPD PROPERTY. THE NPUP APPLICATION MUST BE REVIEWED AND APPROVED WITH PERMIT ISSUED BEFORE ANY ACTIVITY CAN BE PERFORMED ON PARKLAND. THE CONTRACTOR SHALL CONTACT THE NPUP POINT OF CONTACT THIRTY (30) CALENDAR DAYS PRIOR TO ANY WORK ON OR NEAR CRPD PROPERTY. THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE AND COORDINATE ACCESS WITH CRPD INSPECTOR PRIOR TO ANY WORK ON OR NEAR CRPD PROPERTY. SCHEDULED EVENTS BY CRPD SHALL TAKE PRECEDENCE OVER THE CONTRACTOR'S WORK SCHEDULE, AND THE CONTRACTOR SHALL ADJUST WORK SCHEDULE AS NECESSARY TO ACCOMMODATE CRPD EVENTS. THE CONTRACTOR SHALL NOT ENTER INTO A CRPD PROPERTY NOR STAGE/STORE ANY MATERIALS/EQUIPMENT OUTSIDE THEIR WORK LIMITS ON CRPD PROPERTY WITHOUT A PERMIT ISSUED BY CRPD. THE PERMIT MUST BE POSTED ONSITE AT ALL TIMES. ANY AND ALL CRPD PARK AREAS DISTURBED BY THE CONTRACTOR DURING THE COURSE OF THEIR WORK ACTIVITIES SHALL BE RESTORED TO CONDITIONS THAT MEET OR EXCEED EXISTING CONDITIONS WITHIN THE TIME FRAMES NOTED IN THE APPROVED SCHEDULE AND SHALL BE TO THE SATISFACTION OF CRPD THAT MEET STANDARDS AND SPECIFICATIONS. UNLESS SPECIFIC PERMISSIONS ARE GRANTED BY CRPD, ACCESS TO, FROM, ON, OVER, UNDER, THROUGH, OR ACROSS CRPD PROPERTY IS NOT GRANTED OR IMPLIED. FAILURE TO HAVE A PERMIT IN PLACE THAT IS CONSISTENT WITH CRPD NPUP POLICY WILL RESULT IN DELAY OF FINAL SITE COMPLIANCE APPROVAL SIGNATURE BY RECREATION & PARKS/CITY FORESTER.

PUBLIC TREE IMPACT NOTE

ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE IS CONSIDERED AN IMPACT TO THE PUBLIC TREE. A PUBLIC TREE PLAN AND PERMIT FROM COLUMBUS RECREATION & PARKS FORESTRY IS REQUIRED FOR ANY PLAN WITH PUBLIC TREES IN THE WORK LIMITS. THE PUBLIC TREE PLAN SHALL DENOTE ALL PUBLIC TREES IN THE PROJECT'S WORK LIMITS. TREE INFORMATION SHALL CONFORM TO THE COLUMBUS TREE TECHNICAL MANUAL REQUIREMENTS AND BE PROVIDED BY A NATURAL RESOURCE PROFESSIONAL. FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE CONTRACTOR REIMBURSING FORESTRY FOR THE COST OF ANY AND ALL DAMAGE TO PUBLIC TREES.

PUBLIC TREE PROTECTION NOTE

ALL PUBLIC TREES AND THE GROUND IN THE CRITICAL ROOT ZONE, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PROTECTED UNLESS A PERMIT TO REMOVE IS GIVEN BY COLUMBUS RECREATION & PARKS (CRPD) FORESTRY. THE CONTRACTOR SHALL PROTECT TREES NEAR OR ADJACENT TO THE WORK AREA TO AVOID DAMAGE TO ALL TREES THAT ARE TO REMAIN. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE OF EXISTING PUBLIC TREES. RESTRICTED EQUIPMENT ACCESS ROUTES SHALL BE COORDINATED WITH CRPD FORESTRY AT FORESTRY@COLUMBUS.GOV BEFORE WORK BEGINS. TEMPORARY PAVING MATERIALS, SUCH AS PLYWOOD, LUMBER OR RUBBER MATTING, SPREAD OVER THE ROOT ZONE OF PUBLIC TREES MAY BE REQUIRED TO PREVENT COMPACTION. CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, FUEL, EQUIPMENT, OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED, OR PARKED WITHIN THE CRITICAL ROOT ZONE OF PUBLIC TREES. ALL TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE CRPD TREE TECHNICAL MANUAL. IF THERE IS A QUESTION REGARDING TREE PROTECTION NEEDS, THE CONTRACTOR MUST CONTACT THE CITY FORESTRY SECTION AT FORESTRY@COLUMBUS.GOV.

FORESTRY PERMIT NOTE

ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE REQUIRES A FORESTRY PERMIT. ALL APPLICABLE FEES MUST BE PAID PRIOR TO PERMIT ISSUANCE. REFER TO THE CRPD TREE TECHNICAL MANUAL FOR TREE REMOVAL, PRUNING, PROTECTION, AND MITIGATION STANDARDS.

OAK WILT NOTE

TO PREVENT THE SPREAD OF OAK WILT, A FUNGAL DISEASE, OAK TREES SHALL ONLY BE PRUNED FROM NOVEMBER 1 TO MARCH 1.

SPECIAL NOTES

1. **NOTIFICATION -** THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL ADJACENT PROPERTY LANDOWNERS A MINIMUM OF ONE WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL CONTACT THE DIVISION OF SEWERAGE AND DRAINAGE FOR A SUGGESTED FORMAT FOR THE NOTICE.

2. **PERMITS -** THE CONTRACTOR IS TO OBTAIN NECESSARY PERMITS. AN ORIGINAL PERMIT, WITH RED SIGNATURES, SHALL BE KEPT ONSITE AT ALL TIMES.

   WHEN OCCUPYING OR EXCAVATING WITHIN PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE- PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV

3. **FIRE HYDRANT PERMIT -** THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (614-645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING HTTP://PORTAL.COLUMBUS.GOV/PERMITS/. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

   FIRE HYDRANT PERMITTED MAY NOT BE AVAILABLE WITHIN PROJECT LIMITS. CONTRACTOR SHALL CONTACT THE DIVISION OF WATER TO LOCATE AVAILABLE HYDRANTS PRIOR TO BIDDING. ALL COSTS ASSOCIATED WITH TRUCKING WATER TO THE SITE SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

4. **MANHOLES TO BE REBUILT -** ALL SEWER MANHOLES BEING REBUILT TO ACCOMMODATE GRADE CHANGES WILL NEED TO BE BUILT BY A LICENSED SEWER CONTRACTOR, FOR THE CITY OF COLUMBUS, UNDER SEPARATE SEWER PERMIT. CONTACT THE SEWER PERMIT COUNTER AT (614) 645-7490 FOR ADDITIONAL INFORMATION.

5. **TREE AND BRUSH REMOVAL -** THE CONTRACTOR SHALL INCLUDE FOR PAYMENT UNDER VARIOUS STORM SEWER ITEMS, COST FOR REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, AND STUMPS WITHIN THE SCOPE OF PROPOSED STORM SEWERS.

6. **BENCHMARKS -** THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 642-3026, PRIOR TO CONSTRUCTION TO COORDINATE PROPER PROCEDURES FOR THE RESETTING, RELOCATION OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

7. **ELEVATION DATUM -** ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON _____ DATUM.

8. **STANDBY INSPECTION -** STAND BY INSPECTION BY THE DIVISION OF DESIGN AND CONSTRUCTION IS MANDATORY DURING CONSTRUCTION. THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND, WHERE REQUIRED, A RE-PAVING GUARANTEE.

   THE CONTRACTOR SHALL REQUEST A PARTIALLY COMPLETED CONSTRUCTION INSPECTION DEPOSIT FORM (CID) FROM THE DESIGN ENGINEER; COMPLETE THE FORM AND SUBMIT TO THE CITY OF COLUMBUS AT 111 N. FRONT STREET, 1ST FLOOR, ALONG WITH THE INSPECTION FEE, PRIOR TO BEGINNING WORK ON THE PROJECT.

9. **SAFETY -** THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY, IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

   THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIREMENTS FOR "CONFINED SPACE ENTRY (CSE)", TITLE #29 OF THE CODE OF FEDERAL REGULATIONS, PART 1910.146, WHILE PERFORMING WORK INSIDE ANY MANHOLE OR OTHER CONFINED SPACE REQUIRING A PERMIT.

10. **NON-RUBBER TIRED VEHICLES -** NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS, EXISTING PRIVATE ROADWAYS, OR PARKING LOTS. EXCEPTIONS MAY BE GRANTED BY THE CITY WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY, AND AT THE CONTRACTOR'S EXPENSE.

11. **RIGHT-OF-WAY -** IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS-OF-ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY.

12. **OPEN EXCAVATIONS -** WITHIN ROADWAYS AND RIGHT-OF-WAY EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED, OR BACKFILLED WITH CMSC ITEM 304 DURING NON-WORKING HOURS. ALL EXCAVATIONS SHALL BE MAINTAINED AS SAFE AS POSSIBLE BY THE CONTRACTOR AT ALL TIMES AND BACKFILLED AT THE END OF EACH WORK DAY. OUTSIDE RIGHT-OF-WAY AND NOT WITHIN ROADWAYS, OPEN EXCAVATIONS OVER 24 INCHES AFTER WORK HOURS REQUIRE SECURE TRAFFIC PLATES AND/OR LIGHTED BARRICADES AND CONSTRUCTION FENCE.

13. **STORAGE OF EQUIPMENT AND MATERIALS -** EQUIPMENT, MATERIALS, INCLUDING PIPE, SHALL NOT AT ANY TIME (WORKING OR NON-WORING HOURS) BE STORED WITHIN THE RIGHT-OF-WAY OR WITHIN ONE HUNDRED (100) FEET OF ANY INTERSECTING STREET OR DRIVEWAY, WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF COLUMBUS. COMPLIANCE WITH THIS REQUIREMENT ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC.

14. **SIGNS, MAILBOXES, FENCES, ETC. -** THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SIGNS, MAILBOXES, FENCES, GAURDRAIL, SHRUBS, DRAINAGE STRUCTURES, VALVE BOXES OR OTHER PHYSICAL FEATURES REMOVED, DISTURBED OR DAMAGED DURING CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT TO THEIR FORMER CONDITION AND LOCATION.

15. **MAIL SERVICE -** THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA. PRIOR TO DISTURBING ANY MAIL BOXES, THE CONTRACTOR SHALL CONTACT THE POSTAL AUTHORITY AND SHALL TEMPORARILY RELOCATE MAIL BOXES IN ACCORDANCE WITH POSTAL REQUIREMENTS. THE CONTRACTOR SHALL RESTORE MAIL BOXES TO THEIR FORMER CONDITION AND LOCATION.

16. **TRASH COLLECTION -** THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS, DIVISION OF REFUSE (614) 645-4729 OR PRIVATE REFUSE SERVICE FOR CURRENT COLLECTION DATE EACH WEEK PRIOR TO STARTING WORK AND BE RESPONSIBLE FOR MAINTAINING A 20-FOOT WIDE CLEAR AREA FOR TRASH PLACEMENT, COLLECTION AND REPLACEMENT IN THE CONSTRUCTION AREA ON THE DESIGNATED TRASH PICK-UP DAY.

17. **CONSTRUCTION DEBRIS -** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS, MUD, OR DIRT TRACKED OR SPILLED ON CITY AND/OR PUBLIC STREETS OR PRIVATE DRIVES WHETHER INSIDE OR OUTSIDE THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY SERVICES CONTRACTED AND/OR COMPLETED BY THE CITY OF COLUMBUS IN THE CLEANUP OF ANY TRACKING OR SPILLAGE ANYTIME DURING PROJECT CONSTRUCTION.

18. **CONSTRUCTION LAYOUT -** ALL CONSTRUCTION LAYOUT SERVICES FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

19. **SITE VISIT -** THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL EFFECTS UPON THE WORK SCOPE. ANY PERFORMANCE OF ADDITIONAL SITE SUBSURFACE INVESTIGATIONS (TEST HOLES) SHALL BE COORDINATED IN ADVANCE WITH THE OWNER. EXCAVATED MATERIAL SHALL BE REPLACED IN A CONTROLLED MANNER TO MINIMIZE IMPACT ON FIELD EARTHWORK OPERATIONS.

20. **UTILITIES -** THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY OWNER OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. THE UTILITY LOCATIONS INDICATED ARE NOT NECESSARILY COMPLETE OR CORRECT. THE CITY OF COLUMBUS AND/OR DESIGN ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE LOCATION OR DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATION OF ANY NECESSARY UTILITY RELOCATION WITH THE UTILITY OWNER. THE UTILITY COMPANY SHALL RELOCATE PRIVATE UTILITIES IN THE RIGHT-OF-WAY AT THEIR EXPENSE. PUBLIC UTILITIES (WATERLINES, SEWERS, ETC.) SHALL BE RELOCATED AS SHOWN ON THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES. THE COST OF UTILITY RELATED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901, UNLESS OTHERWISE SPECIFIED.

    MECHANICAL DIGGING EQUIPMENT SHALL NOT BE USED TO EXPOSE ANY UNDERGROUND UTILITIES, ONLY HAND TOOLS MAY BE USED TO UNCOVER THE UTILITY AND THE UTILITY COMPANY SHALL BE NOTIFIED AND HAVE A REPRESENTATIVE PRESENT WHEN THE UTILITY IS EXPOSED.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY. PRIVATE UTILITY MANHOLES WITHIN THE LIMITS OF THE WORK SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

    WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES AND AT LOCATIONS NOTED THUS **EXPOSE**, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT AND PROVIDE THE ENGINEER THE LOCATION AND ELEVATION OF SAID UTILITY SO THE ENGINEER CAN DETERMINE IF ANY ADJUSTMENTS ARE NECESSARY.

    IN ALL CONFLICTS IN GRADE BETWEEN WATER MAINS AND GRAVITY SEWERS, THE WATER MAIN RELOCATION SHALL BE DISCUSSED AND COORDINATED WITH THE CITY. ALL EXISTING WATER MAINS SHALL BE LOCATED AT LEAST 10' HORIZONTALLY AND AT LEAST 18" VERTICALLY FROM STORM SEWERS, UNLESS OTHERWISE APPROVED BY THE CITY.

    THE CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES IN THE AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTING DURING EXCAVATION OPERATIONS.

    SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH THE OWNER AND PUBLIC UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER.

    DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND OWNED BY THE OWNER EXCEPT WHEN PERMITTED IN WRITING BY THE OWNER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

    THE FOLLOWING UTILITIES MAY BE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS).

UTILITY	ADDRESS	TELEPHONE
AMERICAN ELECTRIC POWER SOLUTION CENTER	850 TECH CENTER DR. GAHANNA, OH 43230	(800) 277-2177
AT&T (FKA SBC)	111 N. FOURTH ST. COLUMBUS, OH 43212 REPAIR SERVICE	(614) 216-2396
VERIZON BUSINESS (MCI/XO)	757 COMMERCE CT. LEWIS CENTER, OH 43035	(614) 593-6685
COLUMBUS FIBERNET	1600 WALCUTT RD. COLUMBUS, OH 43228	(614) 921-8524
WATER FACILITIES	CITY OF COLUMBUS DIVISION OF WATER 910 DUBLIN ROAD COLUMBUS, OH 43215	(614) 645-7788
SEWER FACILITIES	CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE 1250 FAIRWOOD AVE. COLUMBUS, OH 43206	(614) 645-7102
ELECTRIC FACILITIES	CITY OF COLUMBUS DIVISION OF POWER 3500 INDIANOLA AVE. COLUMBUS, OH 43214	(614) 645-7627
	CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICES TRAFFIC MANAGEMENT 1820 E. SEVENTEENTH AVE. COLUMBUS, OH 43219	(614) 645-7393
	CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY	(614) 645-7756

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

GENERAL NOTES

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY | OWNER | CONTRACTOR | INSPECTOR | AGREEMENT | COMPLETED | RPD | CKD | CID | CON.DR. | INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A, VERT 1" = N/A
SHEET: 2 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
GENERAL NOTES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C202
CD PROGRESS SET

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C202 GENERAL NOTES.dwg Saved Date:01-May-2025 3:56 PM Plot Date:9:09 AM Saved By: EMEHAN

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 3:56 PM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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1355 MCKINLEY AVE.
BUILDING C
COLUMBUS, OH 43222

CITY OF COLUMBUS (614) 724-7047
SUPPORT SERVICES DIVISION-
COMMUNICATIONS
4211 GROVES ROAD
COLUMBUS, OH 43232

21. COLUMBIA GAS DAMAGE PREVENTION CENTER - FOR INFORMATION CONCERNING COLUMBIA GAS LINES OR EQUIPMENT, OR IF DAMAGE OCCURS TO GAS LINES OR EQUIPMENT, THE CONTRACTOR CAN CALL THE COLUMBIA GAS DAMAGE PREVENTION CENTER AT (614) 280-7372 OR TOLL FREE AT (866) 632-6243.

22. GRADE CHANGES - IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING SEWER, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADE AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE ENGINEER. INVERT ELEVATIONS SHALL NOT DEVIATE FROM PLAN ELEVATION BY MORE THAN 0.05 FOOT. FAILING TO MEET THE ABOVE REQUIREMENTS IS CAUSE FOR REJECTION OF THE AFFECTED SECTION OF SEWER.

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TESTING AGENCY, AND ALLOW THE TESTING AGENCY ACCESS TO THE WORK. THE OWNER SHALL RECEIVE A COPY OF ALL TEST REPORTS THE DAY THE TESTS ARE PERFORMED.

23. *WATER, SANITARY, STORM AND PRIVATE UTILITY SERVICE LINES* - THE EXISTING WATER, SANITARY, STORM AND PRIVATE UTILITY SERVICE LINES THAT ARE SHOWN ON THE PLANS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION FIELD MARKED, TAP CARD RECORDS, PLAN LOCATION, USE OF VALVE BOXES, ETC.)

ANY DAMAGE TO AN EXISTING SANITARY OR WATER SERVICE LINE NOT IN PHYSICAL CONFLICT WITH THE NEW STORM SEWER AND ITS APPURTENANCES AND FOUND TO BE BEYOND 5 FEET OF ITS LOCATION SHOWN ON THE PLANS SHALL BE REPAIRED. ANY DAMAGE TO TO AN EXISTING SANITARY OR WATER SERVICE LINE NOT IN PHYSICAL CONFLICT WITH THE NEW STORM SEWER AND ITS APPURTENANCES AND IS WITHIN 5 FEET OF ITS LOCATION SHOWN ON THE PLANS SHALL BE RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

RELOCATED WATER SERVICE TAPS ARE TO BE INSPECTED BY THE DIVISION OF WATER. PLEASE CONTACT THE DISTRIBUTION ENGINEERING OFFICE AT (614) 645-7677, 24 HOURS IN ADVANCE TO SCHEDULE AN APPOINTMENT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL OTHER UTILITY LINES AND INCLUDE THE COST OF CROSSING THESE LINES UNDER THE VARIOUS PAY ITEMS OF THIS CONTRACT. REQUESTS FOR EXTRA COMPENSATION FOR THE DELAY OR LOSS OF PRODUCTIVITY CAUSED BY THESE CROSSINGS WILL BE DENIED. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO THE SERVICE LINE AT THEIR OWN EXPENSE.

24. INTERRUPTION OF WATER SERVICE - CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS, BUT NOT MORE THAN 72 HOURS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE HELD TO A MINIMUM AND SHALL BE APPROVED BY THE CITY.

25. SERVICE BOX ADJUSTMENT - THE CONTRACTOR SHALL ADJUST EXISTING UTILITY VALVE BOXES AND SERVICE BOXES TO GRADE WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CURB BOX ENCOUNTERED WHILE RELOCATING WATER SERVICE TAPS AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO CURB, UTILITY AND SERVICE BOXES CAUSED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT THEIR WON EXPENSE AS REQUIRED BY CMSC 105.08.

26. GAS SERVICE VALVES ADJUSTED TO GRADE - THE CONTRACTOR SHALL CONTACT COLUMBIA GAS (614) 460-2244 TO COORDINATE THE ADJUSTMENT OF GAS MAIN LINE OR SERVICE VALVES.

27. UTILITY POLE SUPPORT - UTILITY POLES WITHIN INFLUENCE OF THE CONSTRUCTION OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COST TO BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS OF THE CONTRACT.

28. ABANDONMENT OF UNDERGROUND STRUCTURES - PROVISIONS FOR ABANDONMENT OF ANY UNDERGROUND STRUCTURE (SEPTIC TANK, CISTERN, ETC.) SHALL BE CONSIDERED AS WARRANTED. THE WORK SHALL CONFORM WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS AND SHALL INCLUDE PLUGGING/SEALING OF ANY OUTLET PIPES, PUMPING OUT AND DISPOSING OF CONTENTS, ALONG WITH THE PLACEMENT OF SUITABLE BACKFILL TO FILL THE STRUCTURE. (AT 100% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SPECIFIED BY THE SITE SOIL ENGINEER)

29. TRENCHING - ALL TRENCHES THAT CROSS PAVEMENT OR WHERE THE FRONT FACE OF TRENCHES PARALLELING THE PAVEMENT IS WITHIN 24" OF THE FACE OF CURB OR EDGE OF PAVEMENT SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL AS PER ITEM 912. THE MATERIAL SHALL EXTEND LATERALLY 36" BEYOND FACE OF CURB OR EDGE OF PAVEMENT. OTHER AREAS OUTSIDE ABOVE REQUIREMENT SHALL BE COMPACTED AS PER ITEM 911.

ANY SETTLEMENT WHICH OCCURS DURING THE GUARANTEE PERIOD SHALL BE REPAIRED AT NO COST TO THE OWNER.

ANY EXCAVATION PERFORMED BEYOND THE MINIMUM TRENCH WIDTH, AS DEFINED ON DIVISION OF SEWERAGE AND DRAINAGE CONSTRUCTION DRAWINGS AA-S149, AA-S151 AND AA-S152 DUE TO SITE CONDITIONS OR THE CONTRACTOR'S METHODS ARE DONE SO SOLELY AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR UNAUTHORIZED EXCAVATION. BLASTING IS NOT PERMITTED.

IF UNSUITABLE SUBGRADE MATERIAL IS FOUND, REPLACE UNSUITABLE MATERIAL WITH STONE FOUNDATION AS SPECIFIED IN CMSC ITEM 906 SHALL BE REQUIRED IF DEWATERING OF THE SUBGRADE DOES NOT PRODUCE A SUBGRADE ACCEPTABLE TO THE ENGINEER.

30. TRENCH BACKFILL - TRENCH BACKFILL SHALL BE PER CMSC ITEM 901.17.

31. STORMWATER FACILITIES - BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, THE ENGINEER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE ENGINEER SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE FROM FOREIGN MATERIAL AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

ALL EXISTING MANHOLES, CATCH BASINS DRAINS, SEWERS AND APPURTENANCES INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLE COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER. THE ABOVE IS NOT APPLICABLE FOR STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM EXISTING MANHOLES AND CATCH BASINS THAT HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS THROUGHOUT CONSTRUCTION.

32. EXISTING DRAINAGE SYSTEMS - EXISTING DRAINAGE SYSTEMS (FIELD TILES, ROOF DRAIN OUTLETS, SUMP PUMPS, ETC.) ENCOUNTERED DURING CONSTRUCTION OF THE NEW STORM SEWER OR REMOVAL OF EXISTING STORM SEWERS SHALL BE EXTENDED AS NECESSARY AND BLIND TAPPED TO THE NEW STORM SEWER PER DIVISION OF SEWERAGE AND DRAINAGE STANDARD DRAWINGS AA-S159 OR CONNECTED TO THE CATCH BASIN AS DIRECTED BY THE ENGINEER.

IF THE CONTRACTOR ENCOUNTERS A PIPE OR CONNECTION TO THE STORM SEWER THAT IN THE ESTIMATE OF THE ENGINEER MAY BE AN ILLICIT CONNECTION FROM AN ON-SITE SEWAGE DISPOSAL SYSTEM, COLUMBUS PUBLIC HEALTH SHALL BE CONTACTED AT (614) 645-6448 TO DETERMINE WHETHER THE PIPE MAY BE RECONNECTED TO THE CITY'S STORM SEWER SYSTEM.

33. CLEAN WATER CONNECTIONS TO SANITARY SEWERS - ROOF DRAINS, DOWN SPOUTS, FOUNDATION DRAINS, DRAIN TILES AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

34. MAINTAIN DRAINAGE - THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE CONSTRUCTION ACTIVITIES, THEY SHALL BE RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THEIR ORIGINAL CONDITION.

ALL DRAIN TILES AND SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. ANY DRAIN TILE AND/OR STORM SEWER ENCOUNTERED BY CONSTRUCTION, NOT SHOWN ON THE PLANS SHALL BE CONNECTED WITH THE CURB UNDERDRAIN, STORM SEWER SYSTEM OR PROVIDED WITH AN OUTLET INTO THE ROADWAY DITCH AS APPROPRIATE REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID NO COMPACTED BEDDING EQUAL IN DENSITY TO THE SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION.

35. STORM SEWER AND STRUCTURES - PIPE SPECIFICATIONS FOR THE PLAN IMPROVEMENTS MAY BE IN ACCORDANCE WITH THE FOLLOWING (EXCEPT AS DESIGNATED WITHIN THE PROFILES) OR AS LISTED ON THE CITY OF COLUMBUS APPROVED SEWER PIPE CONSIGNMENT LIST, LATEST EDITION.

A. REINFORCED CONCRETE PIPE - ASTM C-76 (CMSC ITEM 706.02). CONCRETE CLASSIFICATION SHALL BE IN CONFORMANCE WITH THE FOLLOWING UNLESS OTHERWISE REFERENCED BY THE PROFILES:
   - 12-INCH TO 15-INCH DIAMETER PIPE - CLASS IV
   - 18-INCH TO 24-INCH DIAMETER PIPE - CLASS III
   - 30-INCH TO 48-INCH DIAMETER PIPE - CLASS II
   - 60-INCH TO 72-INCH DIAMETER PIPE - CLASS II

B. PVC SEWER PIPE (CMSC ITEM 720.08) ASTM D3034 WITH JOINTS AS PER ASTM D3212. PVC SEWER PIPE SHALL BE LIMITED TO SEWERS 15-INCHES IN DIAMETER AND UNDER.

C. SMOOTH-LINED CORRUGATED POLYETHYLENE PIPE (CMSC ITEM 720.12). PLACEMENT SHALL BE LIMITED TO SEWERS 60-INCHES IN DIAMETER AND UNDER.

38. CHANNELIZE STRUCTURES - ALL STORM AND SANITARY STRUCTURES SHALL BE CHANNELIZED PER AA-S117.

39. UNDERDRAIN OPENINGS - OPENINGS SHALL BE PROVIDED IN THE DRAINAGE STRUCTURES TO ACCOMMODATE UNDERDRAIN OUTLETS AS DETAILED IN THE PROJECT SPECIFICATIONS.

40. STRUCTURE STEPS - CATCH BASIN, CURB INLET AND MANHOLE STEPS SHALL BE REINFORCED POLYPROPYLENE PLASTIC PER AA-S119. PAYMENT FOR MANHOLE STEPS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604.

41. STORM STRUCTURE ADJUSTMENT - THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL NEW STORM WATER STRUCTURES. IF PRECAST STRUCTURES ARE UTILIZED, THE TOP 6 INCHES MINIMUM SHALL BE FIELD PLACED WITH GRADE RINGS TO ALLOW FOR FIELD ADJUSTMENT. COST FOR THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604.

IF THE ENGINEER DETERMINED THAT AN INLET IS TOO LOW/HIGH AFTER IT HAS BEEN PLACED AND ROUGH GRADING PERFORMED, THE CONTRACTOR SHALL ADJUST THE INLET AS DIRECTED BY THE ENGINEER AND REGRADE THE AREAS ACCORDINGLY. FOR ADJUSTMENTS OF +/- 6-INCHES,.

42. MANHOLE FRAMES AND COVERS - THE TOP OF NEW OR MODIFIED MANHOLE CASTING SHALL BE SET FLUSH WITH THE EXISTING GRADE SURFACE. THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION PRIOR TO ORDERING MATERIALS.

43. INLET AND MANHOLE GRATES - PROVIDE HEAVY DUTY FRAMES AND GRATES ON ALL STRUCTURES UNLESS OTHERWISE NOTED IN THE PROFILES.

44. SEWER BEDDING - ALL BEDDING SHALL BE IN ACCORDANCE WITH AA-S151 FOR RIGID SEWER PIPE AND AA-S149 FOR FLEXIBLE SEWER PIPE.

45. UNDERDRAINS - EXTEND UNDERDRAINS TO THE NEAREST STORM STRUCTURE. SLOPE TO DRAIN. PROVIDE THE UNDERDRAIN IN ACCORDANCE WITH THE DETAILS WITHIN THESE PLANS.

46. NEW PIPE CONNECTION TO AN EXISTING SEWER STRUCTURE - WHERE THE PLANS PROVIDE FOR NEW PIPE TO BE CONNECTED TO AN EXISTING SEWER/STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN OPENING AT THE PROPER SIZE, ALIGNMENT AND ELEVATION FOR THE CONNECTION. THE OPENING SHALL BE MADE LARGE ENOUGH TO RECEIVE AND JOIN THE PROPOSED PIPE PER CMSC ITEM 604.

47. PERMANENT PAVEMENT REPLACEMENT - PAVEMENT REPLACEMENT SHALL BE PER STANDARD DRAWINGS 1441, UNLESS OTHERWISE NOTED. PAYMENT SHALL BE BASED ON THE MINIMUM TRENCH WIDTH AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS AA-S149, AA-S151 AND AA-S153. ANY EXCAVATION PERFORMED OR PAVEMENT REMOVED BEYOND THE MINIMUM TRENCH WIDTH, AND THE SUBSEQUENT PAVEMENT REPLACEMENT DUE TO SITE CONDITIONS OR THE CONTRACTOR'S METHODS ARE DONE SOLELY AT THE CONTRACTOR'S EXPENSE, NO ADDITIONAL PAYMENT SHALL BE MADE FOR PERMANENT PAVEMENT REPLACEMENT.

48. DRIVEWAY REPLACEMENT - ASPHALT DRIVES SHALL BE REPLACED FROM THE FARTHEST EDGE OF TRENCH TO THE EDGE OF ROAD PAVEMENT OR TO THE CONCRETE DRIVE APRON, IF ONE EXISTS. CONCRETE DRIVES SHALL BE REPLACED BETWEEN NEAREST ADJACENT JOINTS IF JOINTS ARE WITHIN 4 FEET OF TRENCH EDGE. CONCRETE APRONS THAT ARE DISTURBED AND ARE LOCATED WITHIN THE LIMITS OF THE TRENCH SHALL BE REPLACED BETWEEN NEAREST JOINTS; MONOLITHIC APRONS SHALL BE REPLACED IN THEIR ENTIRETY.

49. TOPSOIL - THE REQUIREMENTS OF CMSC ITEM 653 SHALL GOVERN THE CONSTRUCTION OF THIS WORK. SIX INCHES OF TOPSOIL SHALL BE PLACED OVER ALL DISTURBED AREAS THAT ARE TO BE SEEDED AND MULCHED. FINAL GRADES SHALL CONFORM TO THOSE SHOWN ON THE PLANS. TOPSOIL FOUND SUITABLE BY THE PROJECT ENGINEER DURING CLEARING AND GRUBBING SHALL BE SEGREGATED FROM THE OTHER EXCAVATED MATERIAL AND STOCKPILES FOR REUSE. IF STOCKPILED TOPSOIL IS INSUFFICIENT, THE ENGINEER MAY DIRECT THE CONTRACTOR TO IMPORT ADDITIONAL TOPSOIL.

50. SEEDING AND MULCHING - THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IN CONFORMANCE WITH CMSC ITEM 659 - SEEDING AND MULCHING. ANY DISTURBED AREAS OUTSIDE THE PROJECT LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL WATER SEEDED AREAS AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET AS SOON AS THE SEED IS COVERED. THE CONTRACTOR SHALL WATER ALL SEEDED AREAS AT A RATE OF 120 GALLONS FOR 1,000 SQUARE FEET EVERY OTHER DAY FOR FOUR WEEKS. WATERING SHALL BE PERFORMED IN THE MORNING BETWEEN 6:00 AM AND 10:00 AM AND SHALL BE APPLIED BY MEANS OF A HYDROSEEDER OR WATER TANKS UNDER PRESSURE WITH A NOZZLE THAT WILL PRODUCE A SPRAY THAT WILL NOT DISLODGE THE MULCHING MATERIAL. THE COST OF WATER SHALL BE INCLUDED N THE UNIT PRICE BID FOR ITEM 659 SEEDING AND MULCHING.

MAINTENANCE SHALL INCLUDE RESEEDING, MOWING, TO MAINTAIN A HEIGHT OF 3 INCHES, WATERING, WEEDING, FERTILIZING AND RESETTING AND STRAIGHTENING PROTECTIVE BARRIERS. MAINTENANCE SHALL ALSO INCLUDE CHEMICAL TREATMENTS AS REQUIRED FOR FUNGUS AND/OR PEST CONTROL.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE SEEDED AREAS. AFTER THE GRASS IN SEEDED AREAS HAS APPEARED, ALL AREAS AND PARTS OF AREAS THAT IN THE OPINION OF THE ENGINEER, FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON WHATSOEVER SHALL BE RESEEDED AND SUCH AREAS AND PARTS OF AREAS SHALL BE RESEEDED REPEATELY UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY GROWTH OF GRASS. RESEEDING TOGETHER WITH NECESSARY GRADING, FERTILIZING, WATERING AND TRIMMING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.

51. DUST CONTROL - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL MEASURES IN ACCORDANCE WITH ITEM 616. DUST CONTROL OPERATIONS SHALL BE PERFORMED ON A PERIODIC BASIS AND/OR AS DIRECTED BY THE OWNER TO ALLEVIATE OR PREVENT THE DUST NUISANCE ORIGINATING WITHIN THE PROJECT WORK LIMITS. CALCIUM CHLORIDE ON AREAS TO BE SEEDED AND MULCHED WILL NOT BE PERMITTED.

52. UTILITY AND SEWER CROSSINGS - AT ALL POINTS OF CROSSING WATER MAINS OR OTHER SEWERS, THE BACKFILL SHALL BE OF GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPES.

53. SOIL STOCKPILES - ALL SOIL STOCKPILES, INCLUDING TRENCH EXCAVATION STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVISES SUCH AS STRAW BALE DIKES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. EXCAVATED MATERIALS SHALL NOT BE STORED ON EXISTING PUBLIC ROADWAY PAVEMENTS. THIS INCLUDES EXCESS OR UNSUITABLE EXCAVATED SOIL.

STOCKPILING OF TOP SOIL AND/OR EXCESS MATERIAL FOR THESE IMPROVEMENTS OR OFFSITE HAULING OF TOPSOIL/SUITABLE MATERIAL, ETC. SHALL BE COORDINATED WITH THE OWNER. APPROPRIATE MEANS FOR SEDIMENTATION CONTROL OF THE ONSITE STOCKPILES SHALL BE PROVIDED AS A MATTER OF GENERAL PRACTICE IN ACCORDANCE WITH THE REQUIRED STANDARDS REFERENCED AS A PART OF THE DETAILS SHOWN ON SHEET 4. IT IS THE CONTRACTORS RESPONSIBILITY TO ASSURE THAT A SUFFICIENT AMOUNT OF TOPSOIL REMAINS AS SHOWN ON THE PLANS.

54. STORM SEWER INLET PROTECTION - ALL STORM SEWER INLETS SHALL BE PROTECTED FROM EXCESSIVE AMOUNTS OF SEDIMENTS USING ADEQUATE FILTERING DEVICES AS APPROVED BY THE DIVISION OF SEWERAGE AND DRAINAGE. THESE DEVICES SHALL BE MAINTAINED UNTIL THE DENUDED AREA HAS BEEN STABILIZED OR AS DIRECTED BY THE ENGINEER.

55. DISPOSAL OF EXCESS EXCAVATION - THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION. IF MATERIALS ARE DISPOSED ON PROPERTY WITHIN THE CITY LIMITS, THE CONTRACTOR SHALL PROVIDE A COPY OF THE SIGNED AGREEMENT AND A COPY OF THE GRADE AND FILL PERMIT OBTAINED FROM THE DEVELOPMENT DEPARTMENT.

56. STREET CLEANING - THE CONTRACTOR SHALL KEEP STREETS FREE OF DIRT, SEDIMENT OR MUD ON OR OFF THE PROJECT SITE. THE ENGINEER MAY DIRECT THE CONTRACTOR TO PERFORM STREET CLEANING PERIODICALLY OR ON A REGULAR INTERVAL IF EXCESSIVE AMOUNTS OF DIRT AND MUD ARE LEFT ALONG THE STREET. CONTRACTOR SHALL PROVIDE AT A MINIMUM DAILY STREET CLEANING AND IMMEDIATELY FOR SPECIFIC EVENTS DESCRIBED IN "CONSTRUCTION DEBRIS" GENERAL NOTE. AT A MINIMUM, CLEANING SHALL BE PERFORMED ON ADJACENT PUBLIC ROADWAYS AT THE END OF EACH DAY. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

57. NON PERFORMANCE - IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS OR OTHER WARNING OR PROTECTIVE DEVICES) REQUIRED OF THE CONTRACTOR BY THIS CONTRACT BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM THE WORK, THE CONTRACTOR SHALL REIMBURSE THE CITY AT A RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIAL AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF DEDUCTION FROM THE CONTRACTOR'S NET PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREET INVOLVED ON THIS CONTRACT IS A MAXIMUM 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.

58. CLEARING AND GRUBBING - CLEARING AND GRUBBING WITHIN THE DESIGNATED WORK LIMITS SHALL BE COMPLETED AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXTENT OF CLEARING AND GRUBBING LIMITS WITH THE OWNER/ENGINEER. NO CLEARING SHALL BE PERFORMED UNTIL FORMAL AUTHORIZATION HAS BEEN OBTAINED FROM THE OWNER. ESTABLISHMENT OF THIS WORK SHALL INCLUDE THE OFFSITE REMOVAL AND DISPOSAL OF ALL STUMPS AND CLEARING DEBRIS, UNLESS OTHERWISE DIRECTED BY THE OWNER.

59. ABANDON OR REMOVE EXISTING UTILITIES OR STRUCTURES - THE CONTRACTOR SHALL ABANDON (FILL IN PLACE) ALL EXISTING SEWER PIPES OUTSIDE THE PROPOSED TRENCH LABELED AS (AB) PER ITEM 202. AT THE CONTRACTOR'S OPTION, EXISTING UTILITY OUTSIDE THE SEWER TRENCH MAY BE REMOVED AND DISPOSED AT AN APPROVED DISPOSAL SITE. ANY EXISTING UTILITY LABELED (R) SHALL BE REMOVED PER ITEM 202. BULKHEAD ALL SEWERS ABANDONED PER CMSC ITEM 901.08. COST OF ABANDONING AND/OR REMOVING AND DISPOSING OF EXISTING UTILITY PIES OUTSIDE THE TRENCH TO BE INCLUDED IN ITEM 202 ABANDON SEWER PIPE. THE COST OF REMOVAL AND DISPOSAL OF ANY EXISTING UTILITY PIPE WITHIN NORMAL TRENCH EXCAVATION WIDTH SHALL BE INCLUDED IN THE UNIT COST OF THE NEW PIPE.

THE CONTRACTOR REMOVE ALL EXISTING STRUCTURES (MANHOLES, CATCH BASINS, HEADWALLS, ETC.) OUTSIDE PROPOSED SEWER TRENCH LABELED WITH AN "X" PER ITEM 202.

60. AIR/NOISE CONTROL - CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSION CONTROL EQUIPMENT. PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSION AND NOISE. BAFFLES SHALL BE INSTALLED ON BOILER TRUCKS TRUCKS TO MINIMIZE NOISE.

61. DRIVE APPROACH, PEDESTRIAN FACILITIES AND CURB RAMPS - ALL DRIVE APPROACHES, PEDESTRIAN FACILITIES, CURBS AND RAMPS CONSTRUCTED WITH THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE CITY OF COLUMBUS STANDARDS AND ADA REQUIREMENTS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MEET THESE CONSTRUCTION STANDARDS.

62. WHEELCHAIR RAMP TRAINING REQUIREMENT - ANY CONTRACTOR INVOLVED IN DIRECTING, PLANNING LAYOUT AND/OR CONSTRUCTION OF WHEELCHAIR RAMPS OR OTHER AMENITIES REQUIRED UNDER THE "AMERICANS WITH DISABILITIES ACT OF 1990 (ADA)" SHALL HAVE PREVIOUSLY ATTENDED A CITY OF COLUMBUS SPONSORED TRAINING SESSION TO BE PERMITTED TO EXECUTE WORK ON THIS PROJECT. THIS SHALL INCLUDE BUT NOT LIMITED TO PROJECT SUPERINTENDENTS, SUPERVISORS AND FOREMEN. LABORERS ARE ENCOURAGED, BUT NOT REQUIRED TO ATTEND. FOR MORE INFORMATION, CONTACT THE CITY'S ADA SECTION AT (614) 645-0285.

63. TESTING AGENCY COORDINATION - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TESTING AGENCY AND ALLOW THE TESTING AGENCY FREE ACCESS TO THE WORK. THE OWNER SHALL RECEIVE A COPY OF ALL TEST REPORTS THE DAY THE TESTS ARE PERFORMED.

ALL SUBGRADE COMPACTION SHALL CONFORM TO CMSC ITEM 203. IF COMPACTION CANNOT BE OBTAINED, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE SOIL AND REPLACE IT WITH SUITABLE SOIL OR GRANULAR MATERIAL. REMOVAL AND REPLACEMENT SHALL BE PERFORMED ONLY AS DIRECTED BY THE TESTING AGENCY AND SHALL BE ORDERED ONLY WITH PERMISSION OF THE ENGINEER.

64. CONCRETE WALKS - ALL EXISTING CONCRETE SIDEWALKS BEING REPLACED WITH NEW CONCRETE SIDEWALKS SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING 2300. PROVIDE EXPANSION JOINT MATERIAL WHERE NEW CONCRETE ADJOINS EXISTING SIDEWALK.

ALL EXISTING CONCRETE SIDEWALKS NOT SCHEDULED FOR REPLACEMENT BUT BEING CROSSED BY THE INSTALLATION OF TRAFFIC ITEMS, ELECTRICAL CONDUIT, PIPING, ETC. SHALL BE FULLY REMOVED AT AN EXITING JOINT AND REPLACED PER STANDARD DRAWING 2300 UNLESS NOTED OTHERWISE.

65. SAW CUTTING INCLUDED - THE COST OF SAW CUTTING FOR THE REMOVAL OF PAVEMENT, CURB, WALKS, ETC. SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 202 WORK ITEMS. SAW CUTTING IS REQUIRED TO PROVIDE SMOOTH STRAIGHT EDGES FOR REMOVAL PURPOSES.

EARTHWORK - GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUITABILITY OF SOILS TO BE USED FOR EMBANKMENTS.
2. STOCKPILING OF TOPSOIL AND/OR EXCESS MATERIAL FOR THESE IMPROVEMENTS OR OFFSITE HAULING OF TOPSOIL/SUITABLE MATERIAL, ETC. SHALL BE COORDINATED WITH THE OWNER. APPROPRIATE MEANS FOR SEDIMENTATION CONTROL OF THE ONSITE STOCKPILES SHALL BE PROVIDED AS A MATTER OF GENERAL PRACTICE IN ACCORDANCE WITH THE REQUIRED STANDARDS REFERENCED AS A PART OF THE DETAILS SHOWN ON SHEET ___ TO ___. IT IS THE CONTRACTORS RESPONSIBILITY TO ASSURE THAT A SUFFICIENT AMOUNT OF TOPSOIL REMAINS AS SHOWN ON THE PLANS.
3. GRADING SHOWN ON THE APPROVED GRADING PLAN IS NECESSARY TO PROVIDE SURFACE DRAINAGE OF THE PROPOSED DEVELOPMENT AND SHALL BE MAINTAINED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL STRIP TOPSOIL FROM ALL GRADING AREAS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGH GRADING THE TOPSOIL STOCKPILE AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE OF AND AROUND THE STOCKPILE.
5. ALL FILL SHALL BE PLACED IN UNIFORM 8-INCH LIFTS AND COMPACTED IN A CONTROLLED MANNER TO AT LEAST 100% OF THE MAXIMUM DRY UNIT WEIGHT OBTAINED IN THE LABORATORY BY THE "STANDARD" PROCTOR COMPACTION TEST (ASTM D 698). MOISTURE CONTENT OF THE NEW FILL SHALL BE IN THE RANGE OF +/- 2% OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY ASTM D 698. FILL SHALL NOT BE PLACED IN A FROZEN CONDITION OR UPON A FROZEN SUBGRADE. THE CONTRACTOR SHALL ENDEAVOR TO SEPARATE TOPSOIL AND UNSUITABLE MATERIAL FROM SUITABLE FILL MATERIAL.
6. THE PROPOSED ELEVATIONS/CONTOURS SHOWN ON THE PLANS ARE FINISHED GRADE.
7. ALL WORK SHALL BE MONITORED AND OBSERVED BY A REGISTERED SOILS ENGINEER EMPLOYED AND PAID FOR BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SOILS ENGINEER PRIOR TO COMMENCEMENT OF ANY FILL PLACEMENT. THE CONTRACTOR SHALL CONTACT THE SOILS ENGINEER AS MANY TIMES AS NECESSARY DURING CONSTRUCTION TO ENSURE THE SOILS ENGINEER IS ON-SITE DURING ALL FILL OPERATIONS.
8. CONFORM TO THE 203.04.B (ITEM 208, ODOT CMS). COST OF ROCK BLASTING INCLUDED IN COST OF ITEM 901.
9. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.
10. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL BELOW OF A TYPICAL SEDIMENT BAG INSTALLATION.
11. ALL SUBGRADE COMPACTION SHALL CONFORM TO ITEM 204. IF COMPACTION CANNOT BE OBTAINED, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE SOIL AND REPLACE IT WITH SUITABLE SOIL OR GRANULAR MATERIAL. REMOVAL AND REPLACEMENT SHALL BE PERFORMED ONLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND SHALL BE ORDERED ONLY WITH THE PERMISSION OF THE ENGINEER.

PAVEMENT CUTTING, SAWING AND EXCAVATION NOTES - ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING AND DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS. SEE STORMWATER POLLUTION PREVENTION PLAN NOTES AND DETAILS ON SHEETS 17-24(C217-C224).

THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) TO LOCATE UTILITIES PRIOR TO PAVEMENT CUTTING, SAWING, AND EXCAVATION.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

GENERAL NOTES

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY				OWNER	
				CONTRACTOR	
				INSPECTOR	
				AGREEMENT	COMPLETED
				RPD CKD	CID CON.DR.
				INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 3 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
GENERAL NOTES

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C203
CD PROGRESS SET

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C203 GENERAL NOTES.dwg Saved Date:02-May-2025 10:21 AM Plot Date:9:09 AM Saved By: EMEHAN

REVIT VERSION: 2023
PRINT DATE: 5/2/2025 10:21 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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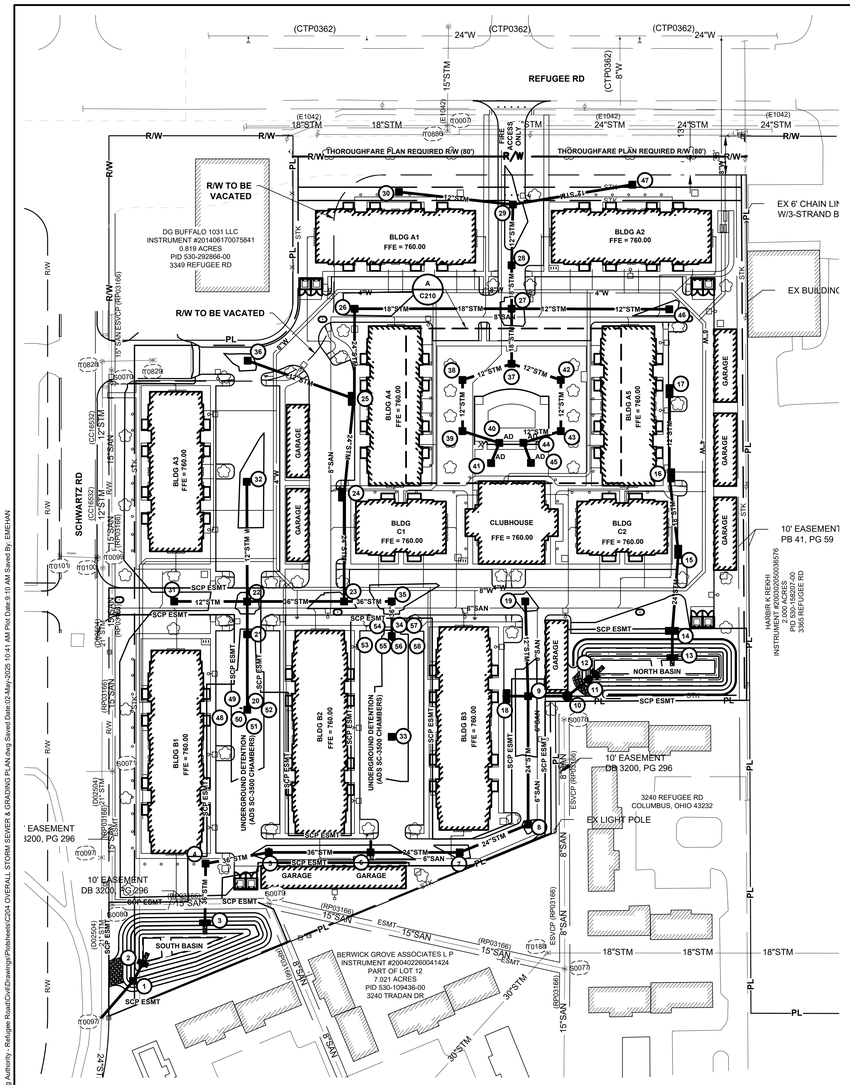

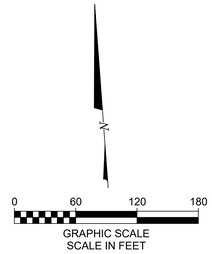

GENERAL NOTES:

1. PROVIDE 10' UNDERDRAINS IN FOUR DIRECTIONS AT CATCH BASINS IN PAVEMENT PER DETAIL E/11(C211).
2. PAVEMENT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONSTRUCTION WORK WILL NOT BE PERMITTED WITHOUT APPROVED PLANS AND INSPECTION.
4. PERFORM WORK IN ACCORDANCE WITH CITY OF COLUMBUS MATERIAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS. IN CASE OF A DISCREPANCY BETWEEN CITY OF COLUMBUS REQUIREMENTS AND PROJECT SPECIFICATIONS, CITY OF COLUMBUS STANDARDS SHALL GOVERN.
5. SOIL EROSION AND SEDIMENTATION BMP MEASURES, PER SHEET 18-24(C218-C224), SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES IN PLACE. BMP MEASURES SHALL BE TO THE SATISFACTION OF THE CITY OF COLUMBUS.
6. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT AND/OR MUD IN THE STREET GUTTERS.
7. REMOVE SEDIMENT FROM DETENTION AREAS, OUTLET STRUCTURES, AND UNDERDRAINS ONCE FINAL SEED HAS BEEN ESTABLISHED.
8. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
9. DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. EXTEND UTILITIES TO WITHIN 5'-0" OF FACE OF BUILDING UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
11. MAXIMUM FINISH SLOPES SHALL BE 4:1 UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL THROUGHOUT THE SITE PRIOR TO EXCAVATION. UPON COMPLETION OF FINAL GRADING, PROVIDE 6 INCHES OF TOPSOIL AND SEED AREAS DISTURBED BY CONSTRUCTION, INCLUDING LAYDOWN AREAS AND TRAILER LOCATIONS IF LOCATED OUTSIDE THE GRADING/SEEDING LIMITS.
13. DISPOSE EXCESS EXCAVATED MATERIALS AND UNACCEPTABLE/UNSUITABLE SOILS OFF SITE IN ACCORDANCE WITH LOCAL CODES. NO PERMANENT STOCKPILES WILL REMAIN ON SITE.
14. EXISTING VALVES, MANHOLES, AND OTHER APPURTANCES TO REMAIN LOCATED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO FINISH GRADE.
15. OUTLET CURB UNDERDRAINS TO ADJACENT EXISTING UNDERDRAINS OR STORM SEWER SYSTEM.
16. EXPOSE UTILITIES NOTED THUS: **EXPOSE** PRIOR TO BEGINNING WORK ON THAT UTILITY TO DETERMINE EFFECTS ON THE PROPOSED ALIGNMENT AND PROFILE. REPORT ELEVATION AND LOCATION TO THE ENGINEER IN ORDER THAT ANY CORRECTIONS TO THE ELEVATION AND LOCATION CAN BE MADE.
17. CONCRETE ADJACENT TO BUILDING SHALL BE SLOPED AWAY FROM BUILDING AT 2.0% UNLESS OTHERWISE NOTED.
18. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

GRADING LEGEND
PROPOSED

800	INDEX CONTOUR
799	INTERMEDIATE CONTOUR
	BUILDING/WALL
W	WATER LINE
F	FIRE PROTECTION SERVICE LINE
G	GAS LINE
STM	STORM SEWER
UD	UNDERDRAIN
SAN	SANITARY SEWER
	CATCH BASIN
	CURB & GUTTER INLET
	MANHOLE
DS	DOWNSPOUT ADAPTER
W	FIRE HYDRANT
	GATE VALVE & CURB BOX
X XXX	STRUCTURE NUMBER
	GRADE BREAK (CROWN) LINE
	GRADING/SEEDING LIMITS
708.53	SPOT ELEVATION
TC	TOP OF CASTING
700.00 / 699.50	TOP OF CURB ELEVATION / GUTTER ELEVATION AT FACE OF CURB
	FLOW DIRECTION ARROW
X	HIGH (CROWN) POINT
	EMERGENCY OVERFLOW
M.E.	MATCH EXISTING ELEVATION

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

OVERALL STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CID	CON.DR.
		INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 60'-0" VERT 1" = N/A

SHEET: 4 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

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REVIT VERSION: 2023
PRINT DATE: 5/2/2025 10:41 AM
FILE INFO: Autodesk Docs://ACS4 - CMHA Aspire Housing/ R23/ACS4_CMHA Aspire Housing_ARCH_R23.rvt

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
OVERALL STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C204

CD PROGRESS SET

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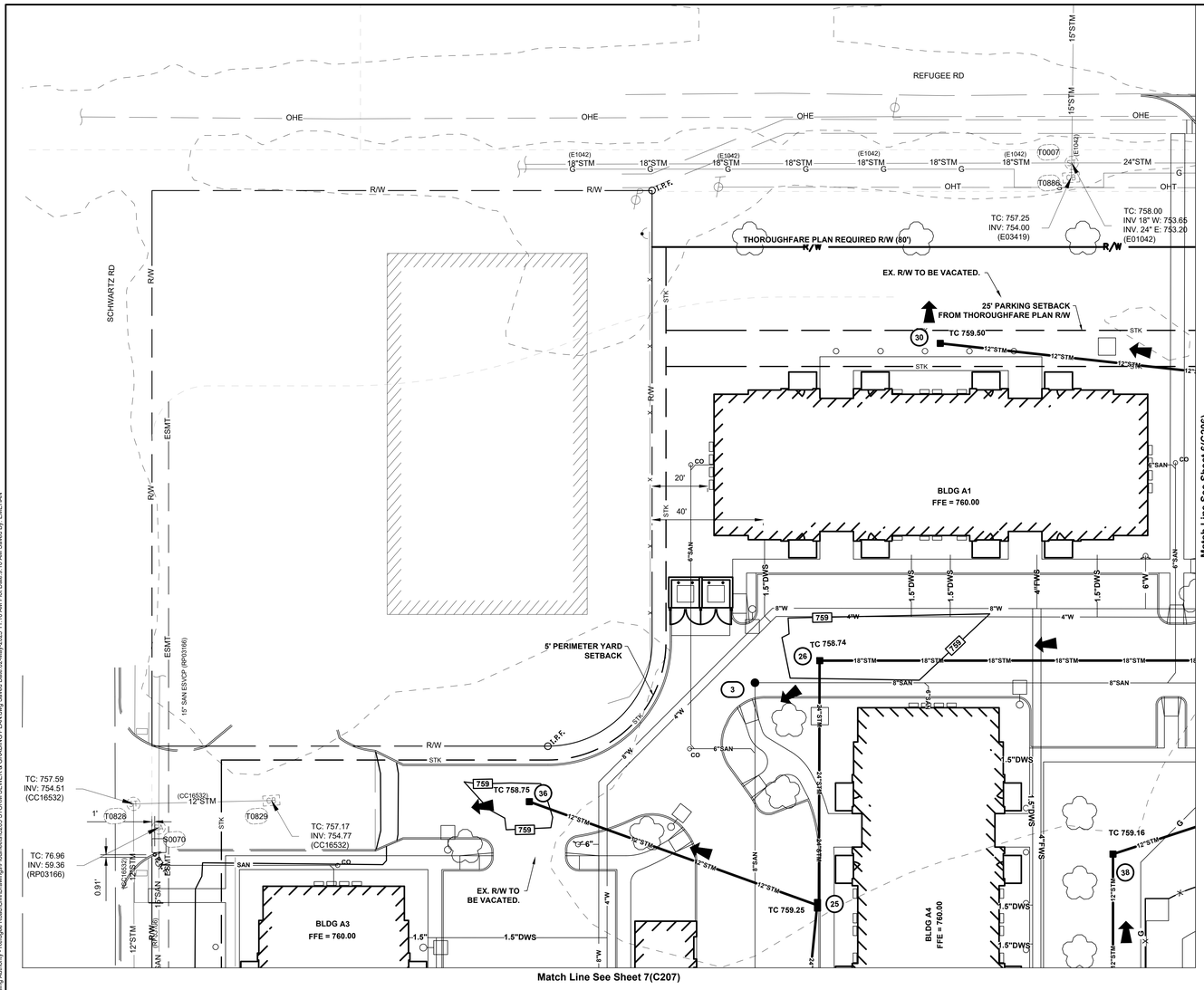
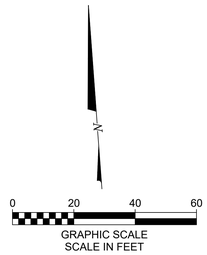


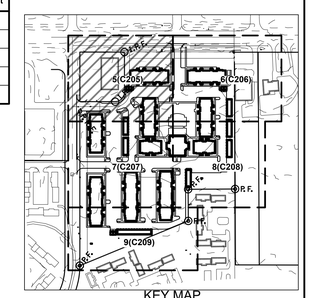


CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
25	759.25	698182.84	1853984.25		
26	758.74	698270.63	1853991.53		
30	759.50	698381.30	1854043.32		
36	758.75	698227.71	1853883.58		
38	759.16	698193.31	1854091.68		



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 5 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C205
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C205 STORM SEWER & GRADING PLAN.dwg Saved Date:02-May-2025 11:16 AM Plot Date:9:10 AM Saved By: EMEHAN

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PRINT DATE: 5/2/2025 11:17 AM
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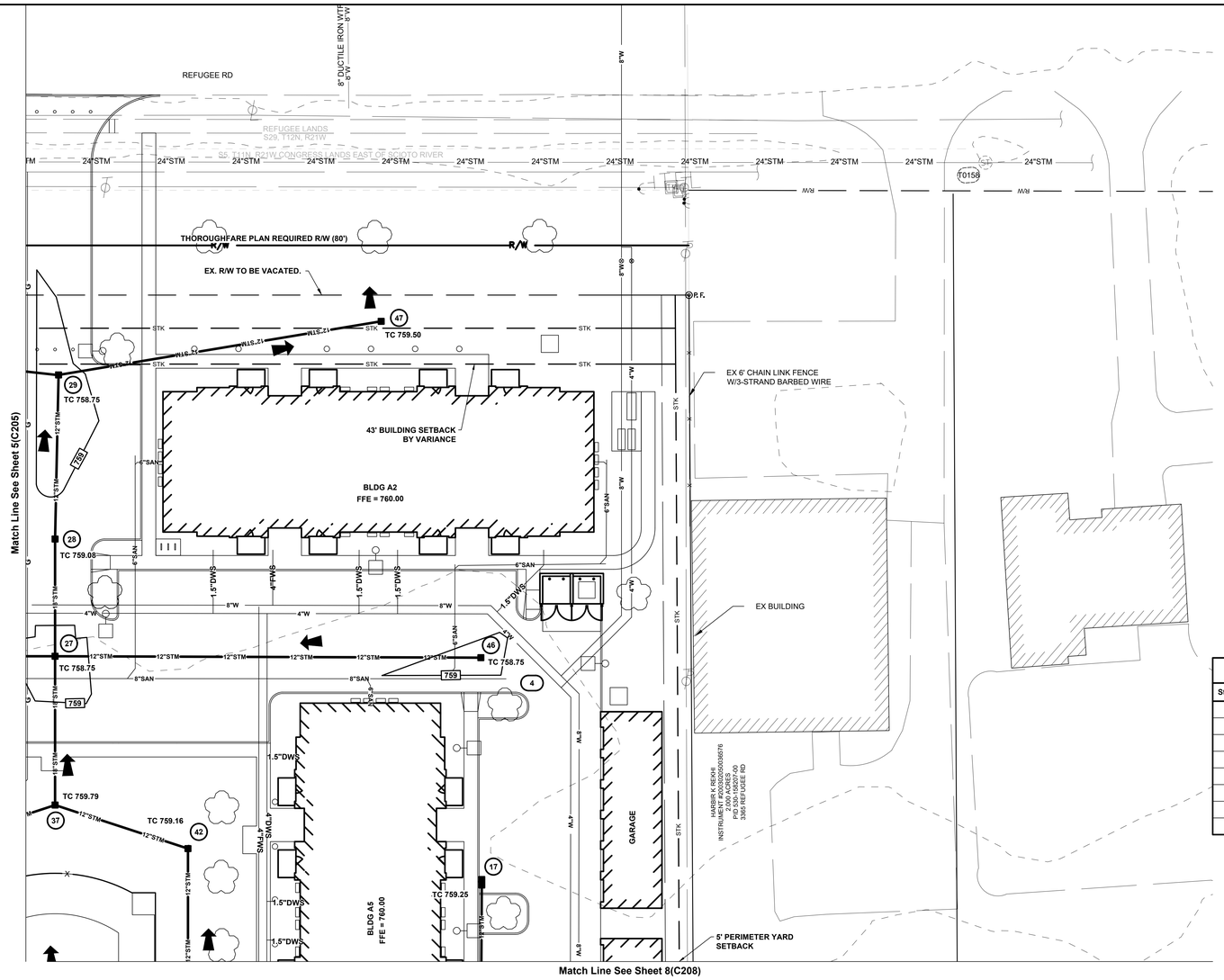
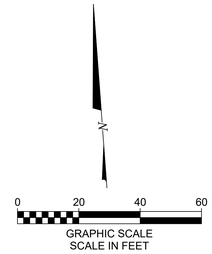


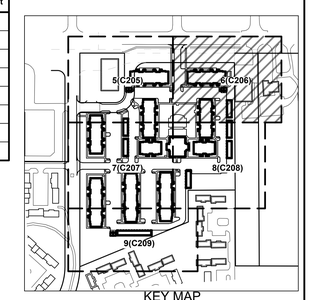


(X) CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
17	759.25	698166.13	1854292.82		
27	758.75	698259.27	1854144.72		
28	759.08	698301.61	1854147.87		
29	758.75	698360.82	1854153.53		
37	759.79	698205.49	1854140.73		
42	759.16	698186.18	1854187.57		
46	758.75	698247.31	1854298.41		
47	759.50	698371.53	1854271.54		



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

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TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 6 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C206
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawing\Plotsheet\C206 STORM SEWER & GRADING PLAN.dwg Saved Date:02-May-2025 12:15 PM Plot Date:5-1-1 AM Saved By: EABSHAN

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PRINT DATE: 5/2/2025 12:15 PM
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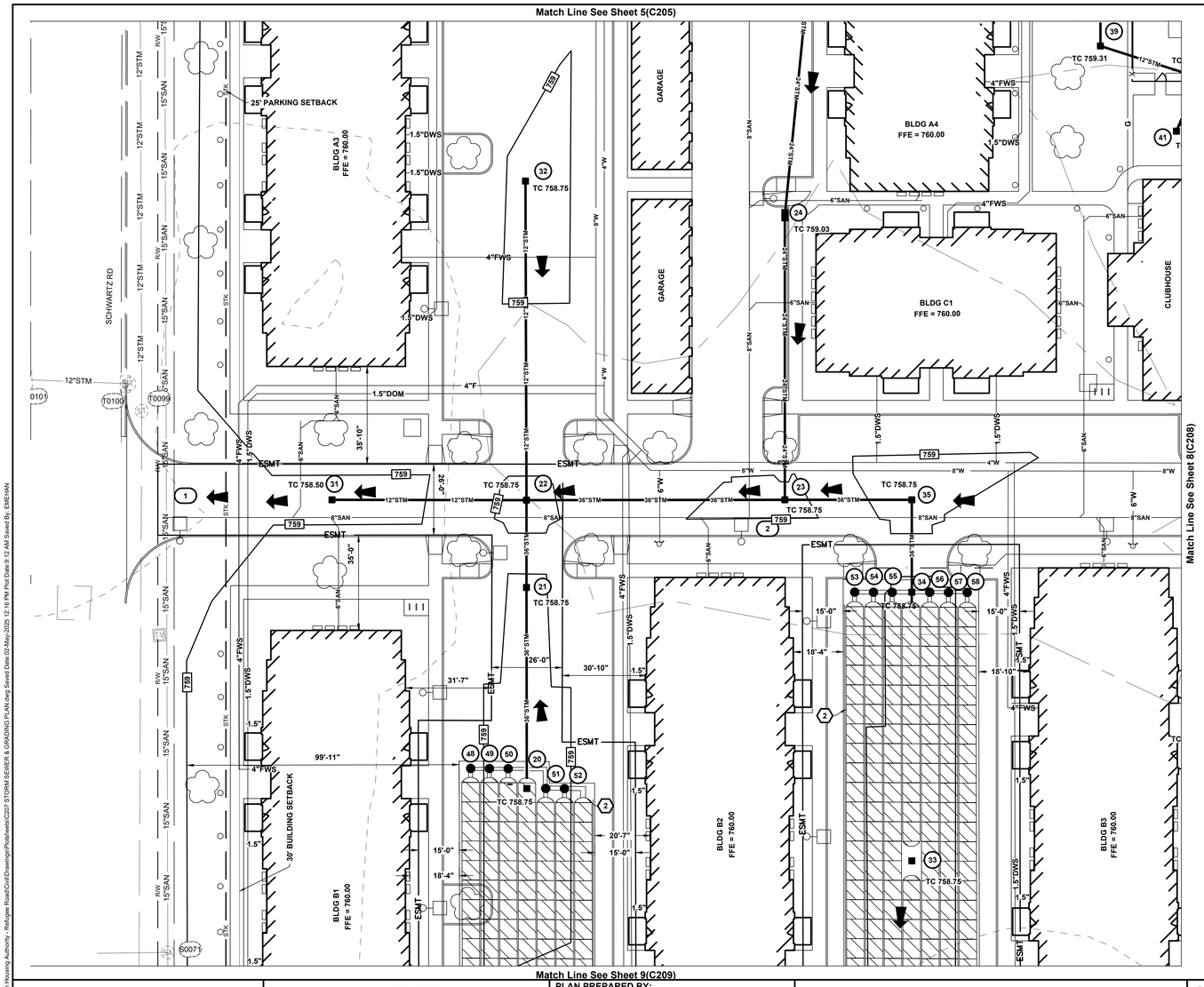
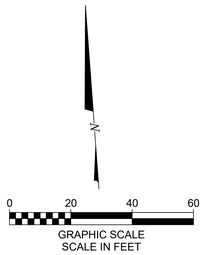


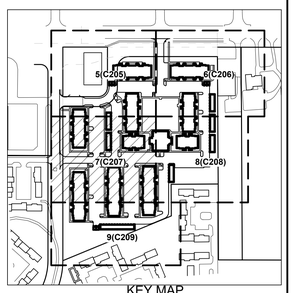


CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
20	758.75	697887.23	1853857.87		
21	758.75	697960.81	1853863.20		
22	758.75	697992.78	1853865.57		
23	758.75	697985.88	1853960.13		
24	759.03	698090.11	1853967.59		
31	758.50	697998.20	1853794.41		
32	758.75	698109.64	1853873.88		
33	758.75	697850.28	1853996.79		
34	758.75	697948.62	1854004.10		
35	758.75	697982.43	1854006.61		
39	759.31	698143.41	1854087.97		
48	759.10	697896.09	1853837.86		
49	759.00	697895.54	1853844.72		
50	758.85	697894.99	1853851.58		
51	758.85	697886.73	1853864.79		
52	758.95	697886.18	1853871.65		
53	759.20	697950.19	1853983.21		
54	759.10	697949.64	1853990.07		
55	758.90	697949.09	1853996.93		
56	758.85	697948.10	1854010.66		
57	758.90	697947.55	1854017.52		
58	759.10	697947.00	1854024.38		



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

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TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 7 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C207

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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REVIT VERSION: 2023
PRINT DATE: 5/2/2025 12:16 PM
FILE INFO: Autodesk Docs://CMHA Aspire Housing: R23/24254, CMHA Aspire Housing, ARCH_R23.rvt

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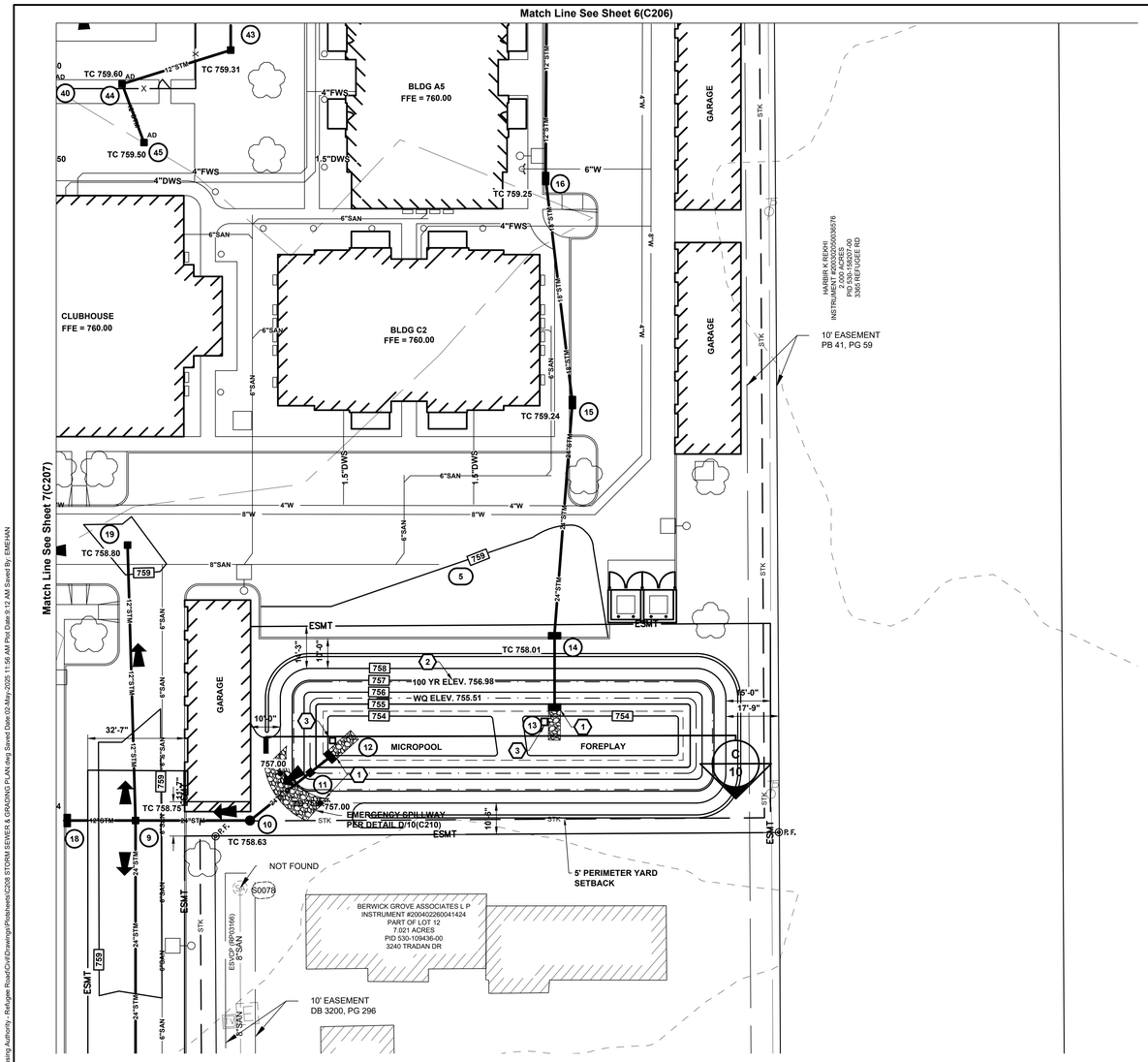
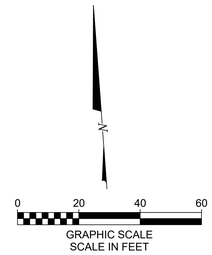


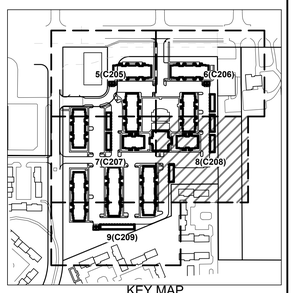


(X) CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
9	758.75	697880.11	1854132.70		
10	758.63	697877.26	1854171.12		
11	756.98	697891.84	1854192.55		
12	755.14	697896.71	1854199.64		
13	756.40	697908.82	1854276.21		
14	758.01	697931.68	1854277.97		
15	759.24	698009.50	1854289.77		
16	759.25	698085.33	1854286.38		
18	759.24	697881.82	1854109.79		
19	758.80	697972.74	1854136.90		
43	759.31	698136.29	1854183.86		
44	759.60	698127.62	1854146.55		
45	759.50	698107.45	1854152.45		



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 8 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C208

CD PROGRESS SET

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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PRINT DATE: 5/2/2025 11:56 AM
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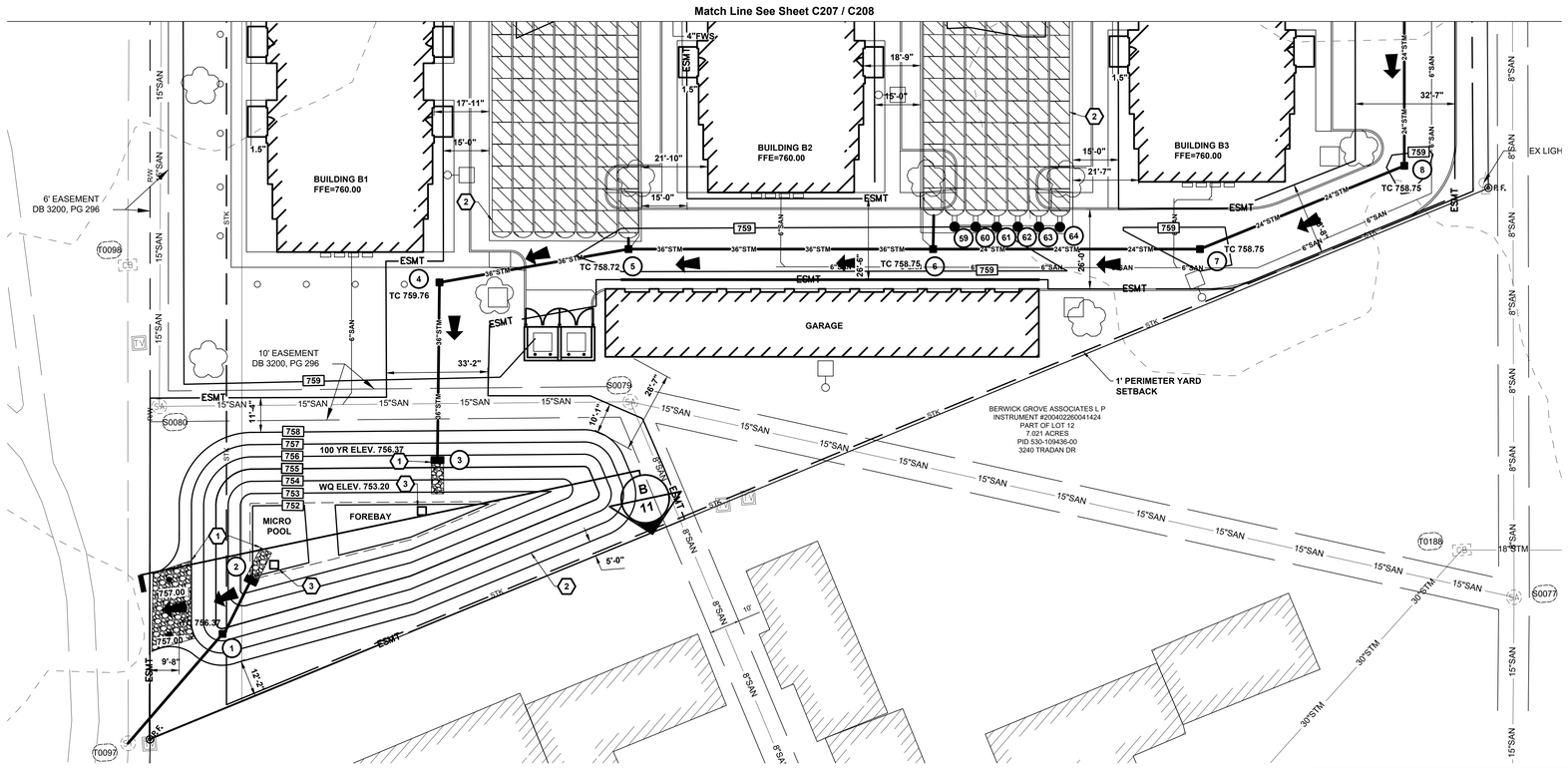
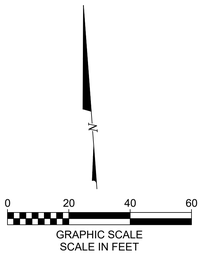


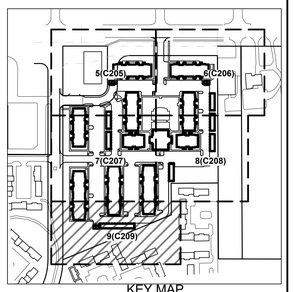


CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
1	756.37	697630.85	1853726.76		
2	753.50	697648.45	1853737.96		
3	756.52	697683.38	1853801.12		
4	759.76	697740.17	1853806.01		
5	758.72	697746.45	1853868.45		
6	758.75	697739.07	1853967.77		
7	758.75	697732.61	1854054.75		
8	758.75	697754.84	1854123.39		
59	759.00	697745.83	1853975.32		
60	759.00	697745.28	1853982.18		
61	759.05	697744.73	1853989.05		
62	759.10	697744.30	1853995.92		
63	759.15	697743.74	1854002.78		
64	759.20	697743.19	1854009.64		



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

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TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 9 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C209
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C209 STORM SEWER & GRADING PLAN.dwg Saved Date:02-May-2025 11:54 AM Plot Date:9:13 AM Saved By: EMEHAN

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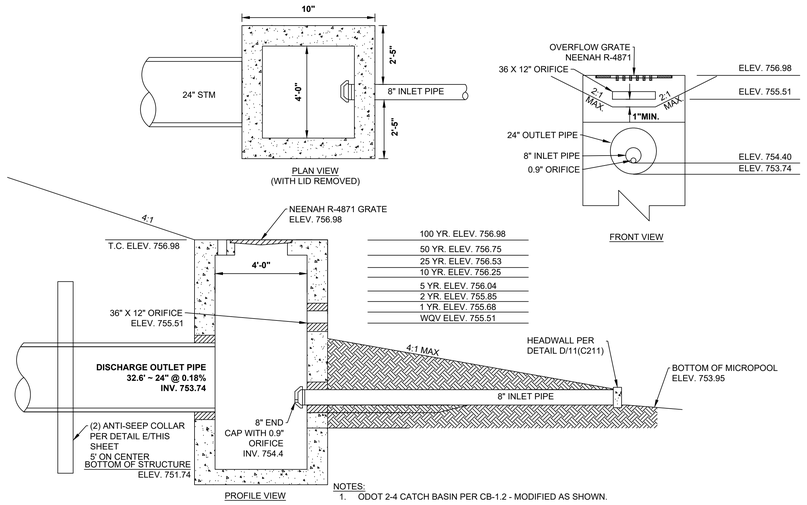
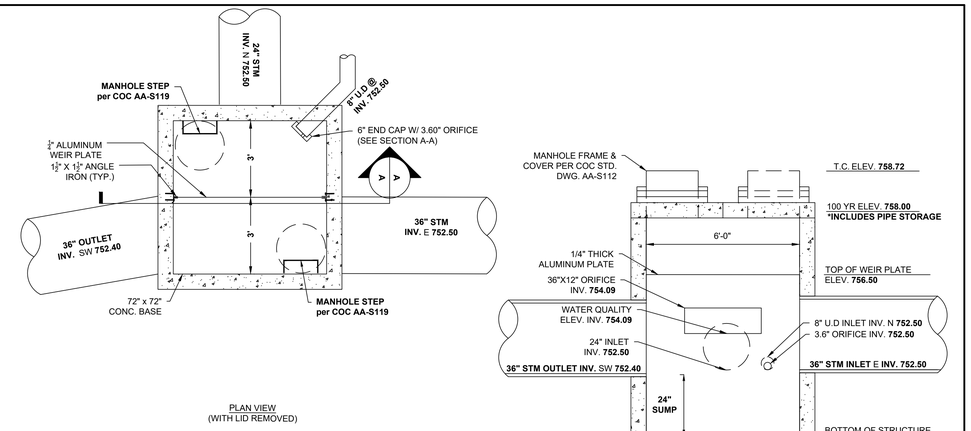


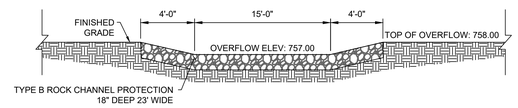
NOTES:
1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.

A DETAIL
OUTLET CONTROL STRUCTURE 11 — N.T.S.

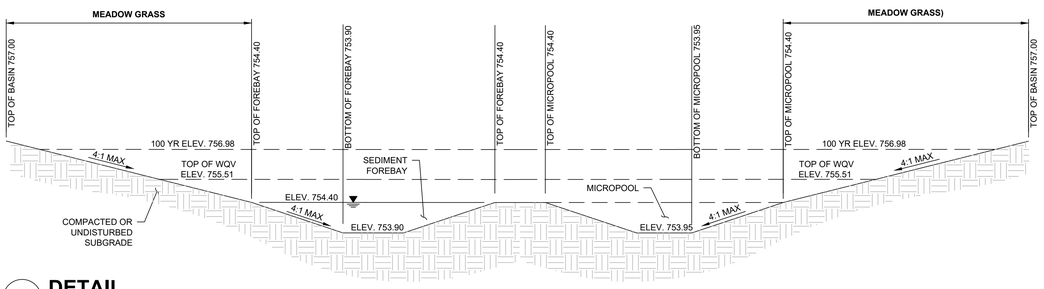


NOTES:
1. 60"X60" PRECAST CONCRETE BASE WITH SLAB TOP AND MANHOLE FRAME AND LID PER ODOT SCD MH-1.2 MODIFIED.
2. SECURELY ANCHOR 1½"X1½" ANGLE IRONS TO CATCH BASIN WALLS WITH STAINLESS STEEL BOLTS (3 PER ANGLE IRON) SET IN EXPANDABLE GROUT.
3. SET ALUMINUM PLATE BETWEEN ANGLE IRONS AND SECURE WITH STAINLESS STEEL NUTS AND BOLTS (3 PER ANGLE IRON). CAULK AS NECESSARY FOR A WATERTIGHT SEAL.

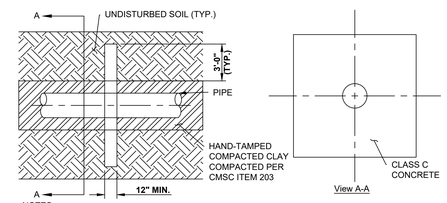
B DETAIL
OUTLET CONTROL STRUCTURE 5 — N.T.S.



D DETAIL
OVERFLOW SPILLWAY FOR NORTH BASIN — N.T.S.

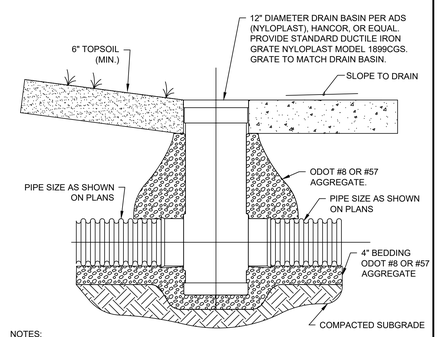


C DETAIL
EXTENDED DRY BASIN W/ FOREBAY AND MICROPOOL TYPICAL SECTION FOR NORTH POND — N.T.S.



NOTES:
1. SPACING BETWEEN ADJACENT COLLARS SHALL BE A MINIMUM OF 5 FEET WITH THE FIRST COLLAR BEING A MINIMUM OF 5 FEET FROM THE INLET.
2. FURNISH A MINIMUM OF 2 COLLARS PER OUTLET CONDUIT.
3. ALL ANTI-SEEP COLLARS AND THEIR CONNECTIONS SHALL BE WATERTIGHT.

E DETAIL
ANTI-SEEP COLLAR — N.T.S.



NOTES:
1. ALL STORM PIPE SHALL BE INSTALLED PER SPECIFICATION SECTION 33 40 00. THE PIPE JOINTS SHALL BE WATERTIGHT.
2. PIPE, FITTINGS, AND CASTINGS SHALL BE FROM THE SAME MANUFACTURER.
3. DRAIN BASIN SHALL BE USED AT ALL CHANGES IN PIPE ELEVATION, CHANGES IN PIPE SIZE, CHANGES IN DIRECTION, AND CHANGES IN PIPE TYPE.
4. PROVIDE WATERTIGHT ADAPTERS FOR ALL PLASTIC PIPING SYSTEMS OTHER THAN THAT NOTED.

F DETAIL
DRAIN BASIN — N.T.S.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY
OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 10 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C210
CD PROGRESS SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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PRINT DATE: 4/28/2025 6:22 PM
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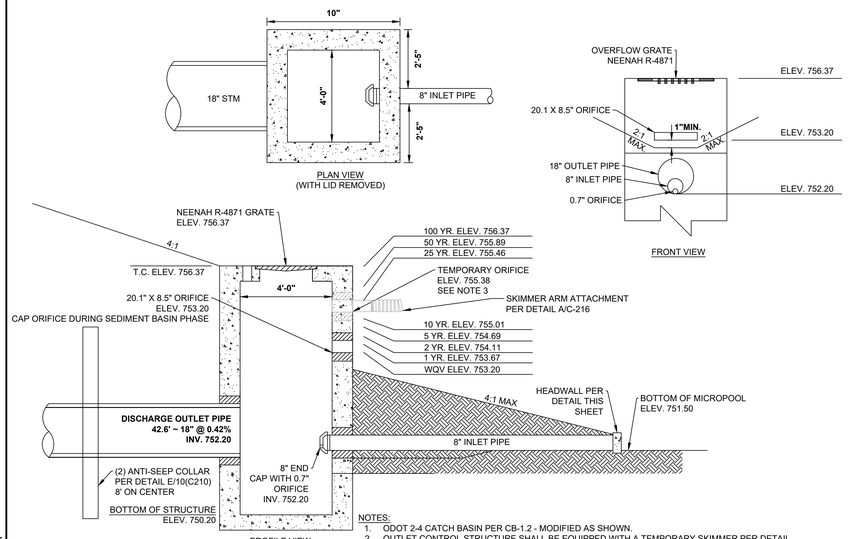
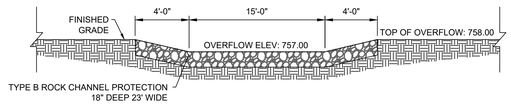
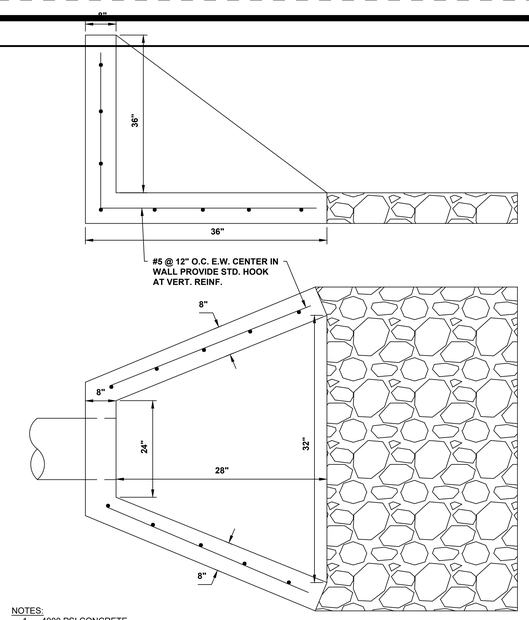


NOTES:
1. ODOT 2-4 CATCH BASIN PER CB-1.2 - MODIFIED AS SHOWN.
2. OUTLET CONTROL STRUCTURE SHALL BE EQUIPPED WITH A TEMPORARY SKIMMER PER DETAIL D/24(C224) DURING CONSTRUCTION AND SHALL NOT BE ESTABLISHED PER THIS DETAIL UNTIL FINAL STABILIZATION OF THE SITE.
3. FILL TEMPORARY ORIFICE FOR FINAL STRUCTURE CONDITION. SEAL SHALL BE WATER TIGHT.
4. CAP ORIFICES DURING SEDIMENT BASIN PHASE. MAINTAIN MIN. 4" CLEAR FROM FACE OF CATCH BASIN TRAP.

A DETAIL
OUTLET CONTROL STRUCTURE 1 — N.T.S.

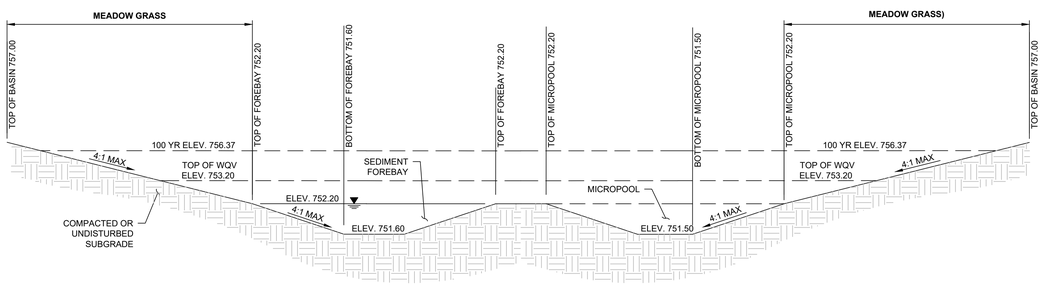


C DETAIL
OVERFLOW SPILLWAY FOR SOUTH BASIN — N.T.S.

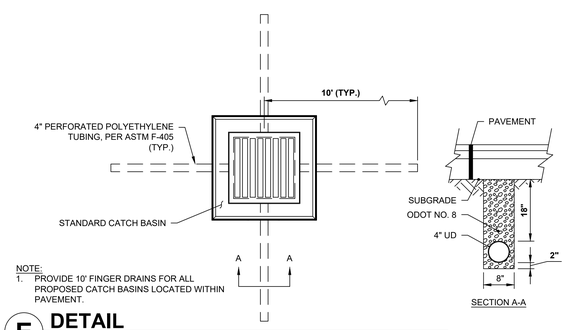


NOTES:
1. 4000 PSI CONCRETE.
2. #5 BAR 12" O.C. THROUGHOUT.
3. USE ODOT TYPE C ROCK CHANNEL PROTECTION.

D DETAIL
HEADWALL — N.T.S.



B DETAIL
EXTENDED DRY BASIN W/ FOREBAY AND MICROPOOL
TYPICAL SECTION FOR SOUTH BASIN — N.T.S.



NOTE:
1. PROVIDE 10' FINGER DRAINS FOR ALL PROPOSED CATCH BASINS LOCATED WITHIN PAVEMENT.

E DETAIL
PAVEMENT UNDERDRAIN — N.T.S.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

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STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY	OWNER
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	INSPECTOR
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RPD / CKD	CID / CON.DR.
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
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SHEET: 11 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

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COMMUNITY. COMPETENCY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
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PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C211
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:22 PM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

BURIED DETENTION SYSTEM

GENERAL NOTES

1. PROVIDE BURIED DETENTION SYSTEM AS DESCRIBED ON PAGES 12-13(C213-C214). THIS SYSTEM CONSISTS OF ADS STORMTECH CHAMBER MC-3500.
2. THE CONTRACTOR SHALL PROVIDE THE CITY REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYS OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45X76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F218 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - _" SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
3. FULL 36" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
4. CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

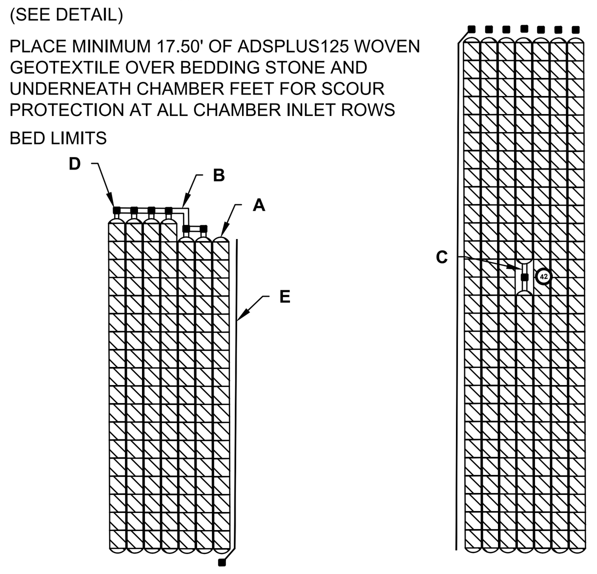
UNDERGROUND DETENTION VOLUME SUMMARY					
CHAMBER BED	NO. & TYPE OF CHAMBERS	VOID SPACE (%)	CHAMBER VOLUME (C.F.)	STONE VOLUME (C.F.)	TOTAL STORAGE VOUME (C.F.)
TOTALS					

THE CONTRACTOR SHALL PROVIDE THE CITY REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYERS OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS



MC-3500 SYSTEM - UNDERGROUND DETENTION

SCP ESTIMATE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
203	1	LS	EXCAVATION
604	1	EA	OUTLET CONTROL STRUCTURE PER DETAIL B/10(C210)
604	4	EA	3'X3' CATCH BASIN PER AA-S133B
604	7	EA	3'X3' CATCH BASIN PER AA-S133B
604	11	EA	48" MANHOLE PER AA-S102 TYPE C
605	333	LF	8" PIPE UNDERDRAIN
623	1	LS	CONSTRUCTION LAYOUT STAKES
624	1	LS	MOBILIZATION
SPEC	1	EA	ADS STORMTECH MC-3500 UNDERGROUND STORMWATER DETENTION STRUCTURE (351 CHAMBERS, 30 END CAPS, 14 INSPECTION PORTS)
SPEC	688	CY	EMBEDMENT STONE
SPEC	4237	SY	NON-WOVEN GEOTEXTILE FABRIC
SPEC	1	EA	ALUMINUM WEIR PLATE W/ 36" X 12" ORIFICE & 3.6" DIA. ORIFICE
SPEC	1	EA	NEENAH R-3700 ORIFICE COVER
SPEC	1	EA	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR POST-CONSTRUCTION STORMWATER CONTROL PRACTICE

PART TYPE	ITEM ON LAYOUT	DESCRIPTION
PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS
MANIFOLD	B	24" X 24" BOTTOM MANIFOLD ADS N-12
PIPE CONNECTION	C	24" BOTTOM CONNECTION
CONCRETE STRUCTURE	D	PER PLANS
UNDERDRAIN	E	8" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN

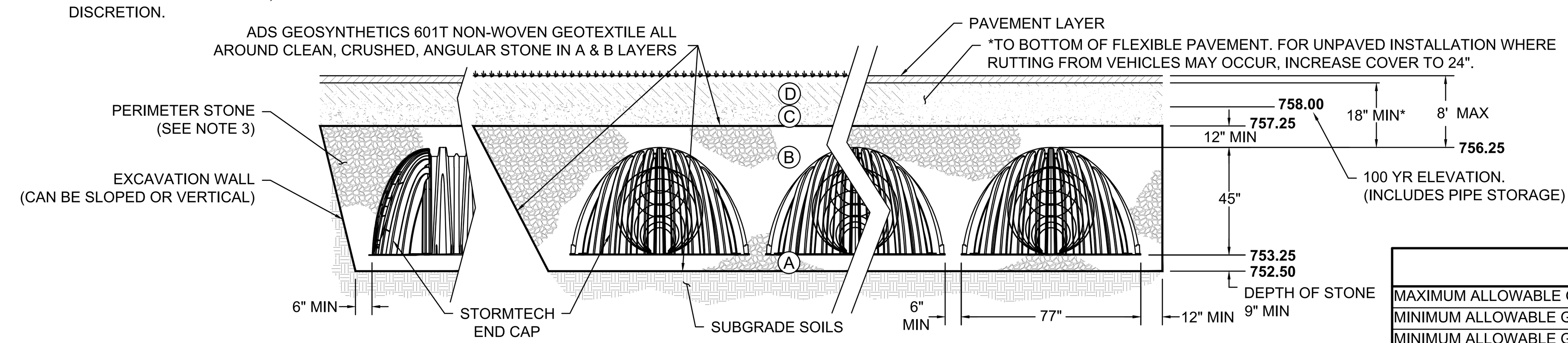
PROPOSED LAYOUT	
QUANTITY	DESCRIPTION
351	STORMTECH MC-3500 CHAMBERS
30	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (IN)
9	STONE BELOW (IN)
40	% STONE VOID
56272.2	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
13447	SYSTEM AREA (SF)
888	SYSTEM PERIMETER (FT)

NOTES:
1. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
2. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
3. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
4. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY.
5. NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

A DETAIL
ADS UNDERGROUND DETENTION SYSTEM
NTS

ACCEPTABLE FILL MATERIALS				
MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
4. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ELEVATIONS		AS-BUILT
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	764.25	
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	758.25	
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	757.75	
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE):	757.75	
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	757.75	
TOP OF STONE:	757.25	
TOP OF MC-3500 CHAMBER:	756.25	
24" X 24" BOTTOM MANIFOLD INVERT:	753.42	
24" ISOLATOR ROW PLUS INVERT:	753.42	
BOTTOM OF MC-3500 CHAMBER:	753.25	
UNDERDRAIN INVERT:	752.50	
BOTTOM OF STONE:	752.50	

B SECTION
ADS UNDERGROUND DETENTION SYSTEM
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER		GRANTOR
	VOL.	PAGE	

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY | OWNER | CONTRACTOR | INSPECTOR | AGREEMENT | COMPLETED | RPD | CKD | CID | CON.DR. | INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A; VERT 1" = N/A
SHEET: 12/24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C212

CD PROGRESS SET

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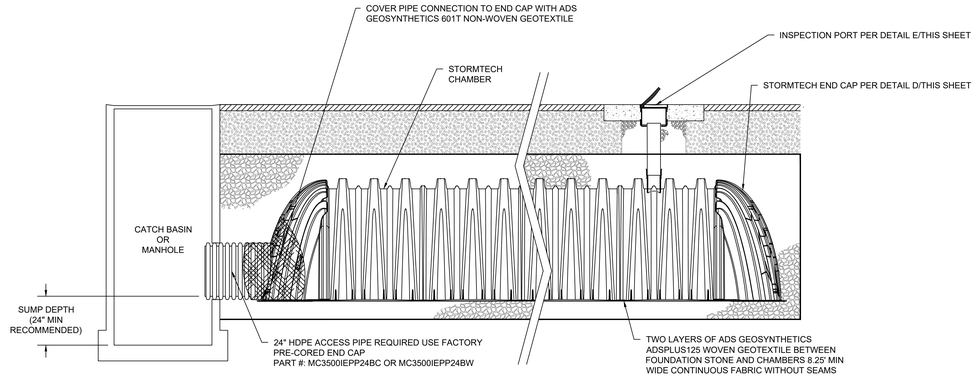
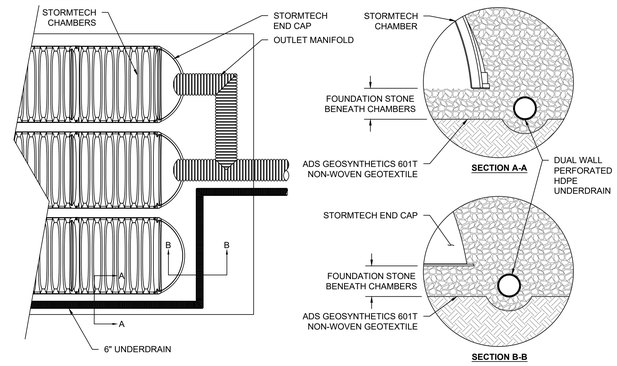
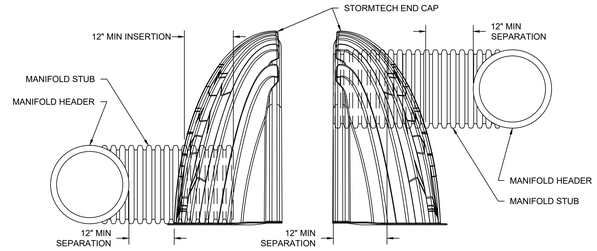


A DETAIL
ISOLATOR ROW — NTS

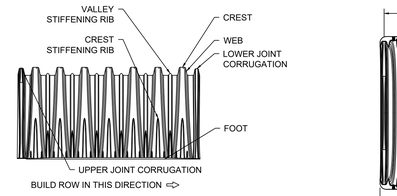


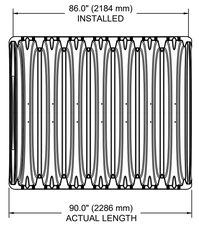
C DETAIL
UNDERDRAIN — NTS

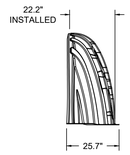


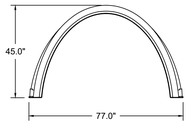
NOTES:
1. MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

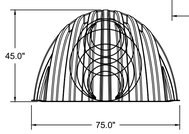
D DETAIL
END CAP INSERTION — NTS

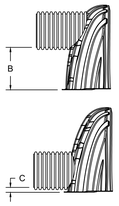












NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"
CHAMBER STORAGE	109.9 CUBIC FEET
MINIMUM INSTALLED STORAGE*	178.9 CUBIC FEET
WEIGHT	134 lbs.

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"
END CAP STORAGE	14.9 CUBIC FEET
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET
WEIGHT	49 lbs.

*ASSUMES 12" STONE ABOVE, 9" STONE FOUNDATION AND BETWEEN CHAMBERS, 6" STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

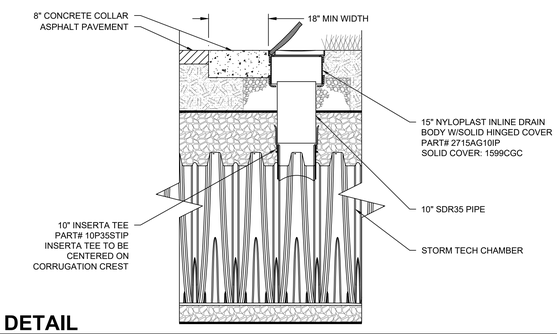
NOTES
1. END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10".
2. ALL DIMENSIONS ARE NOMINAL.
3. THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.
4. STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B".
5. STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T".
6. END CAPS WITH A WELDED CROWN PLATE END WITH "C".
7. END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W".

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6"	33.21"	---
MC3500IEPP06B		---	0.66"
MC3500IEPP08T	8"	31.16"	---
MC3500IEPP08B		---	0.81"
MC3500IEPP10T	10"	29.04"	---
MC3500IEPP10B		---	0.93"
MC3500IEPP12T	12"	26.36"	---
MC3500IEPP12B		---	1.35"
MC3500IEPP15T	15"	23.39"	---
MC3500IEPP15B		---	1.50"
MC3500IEPP18TC	18"	20.03"	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77"
MC3500IEPP18BW			
MC3500IEPP24TC	24"	14.48"	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06"
MC3500IEPP24BW			
MC3500IEPP30BC	30"	---	2.75"

NOTE: ALL DIMENSIONS ARE NOMINAL

B DETAIL
MC-3500 TECHNICAL SPECIFICATIONS — NTS



E DETAIL
10" INSPECTION PORT — NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY | OWNER | CONTRACTOR | INSPECTOR | AGREEMENT | COMPLETED | RPD | CKD | CID | CON.DR. | INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 13 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER DETAILS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C213
CD PROGRESS SET

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REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:22 PM
FILE INFO: Modeled Doors:20254-CMHA Aspire Housing; R23/2425_CMHA Aspire Housing_ARCH_R23.rvt

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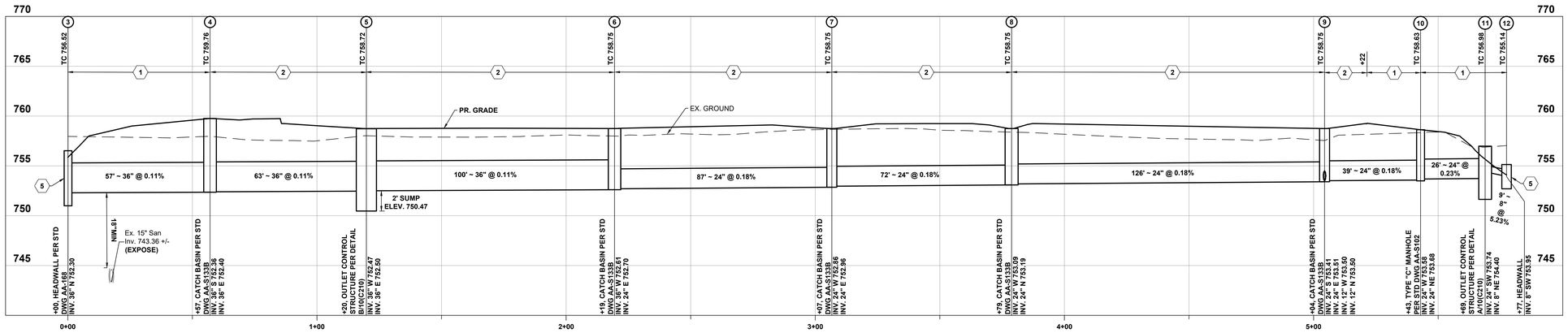

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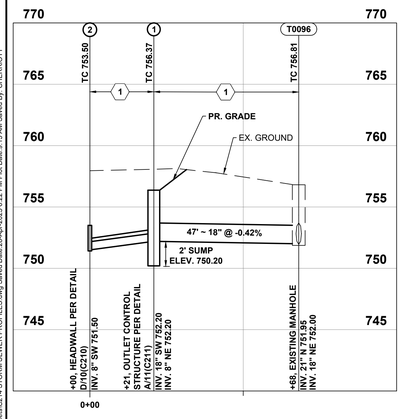

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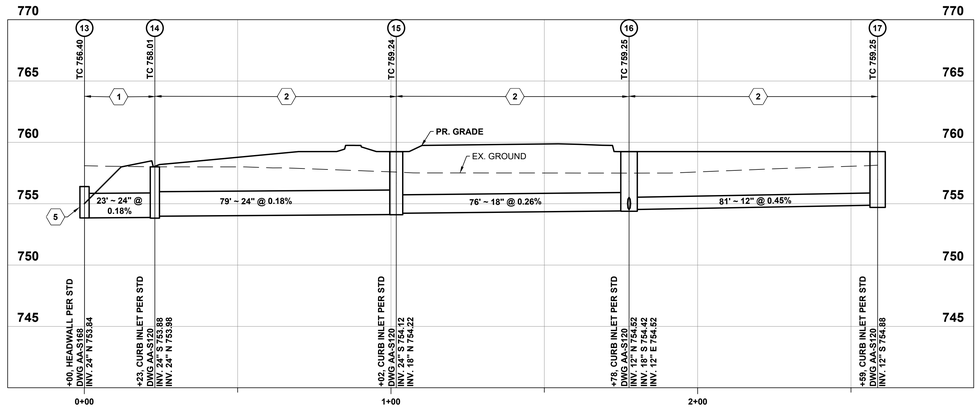

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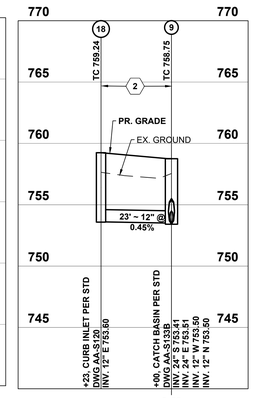

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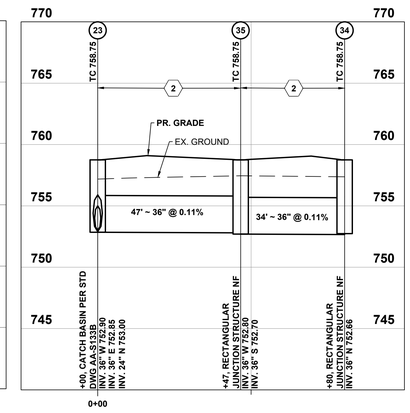

STORM 23-34 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
4. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15
5. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"

SHEET: 14 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

File: H:\Projects\0222\0222-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C214-STORM-SEWER-PROFILES.dwg Saved Date:28-Apr-2025 6:22 PM Plot Date:9:15 AM Saved By: CHERROUTT

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:22 PM
FILE INFO: Autodesk Docs://NEW CMHA Aspire Housing: R23/24/24_CMHA Aspire Housing_ARCH_R23.rvt

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER PROFILES

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C214

CD PROGRESS SET

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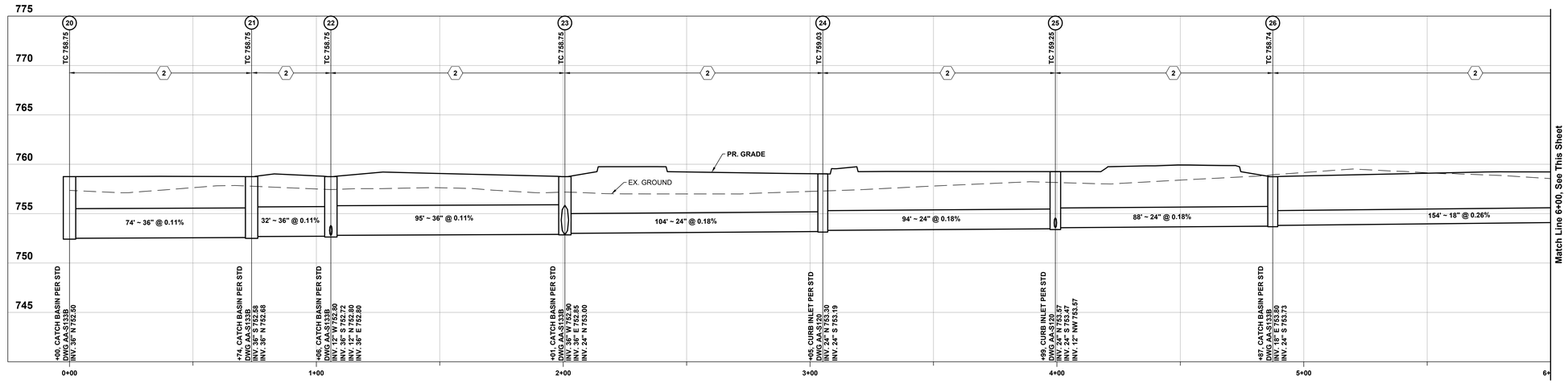
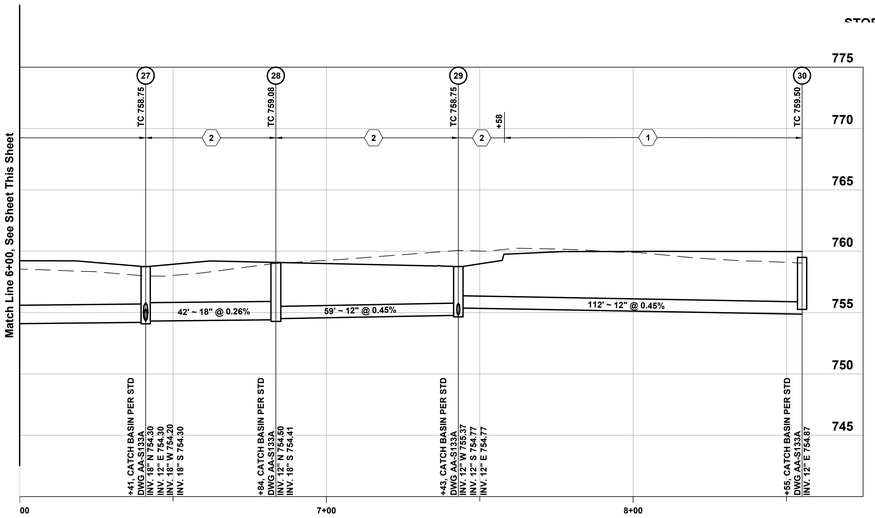


STORM 20-30 Profile



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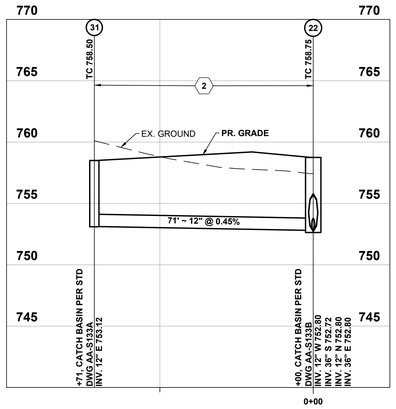

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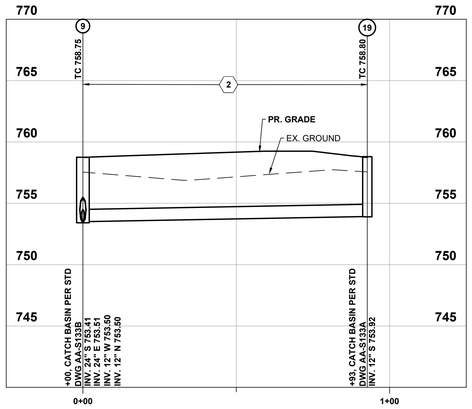

STORM 9-19 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
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5. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY			OWNER	
			CONTRACTOR	
			INSPECTOR	
			AGREEMENT	COMPLETED
RPD	CKD	CID	CON.DR.	
		INDEX DETAIL	RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"

SHEET: 15 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

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REVIT VERSION: 2023
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FILE INFO: Autodesk Docs://2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road/CMHA Aspire Housing R23/2425A_CMHA Aspire Housing_ARCH_R23.rvt

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER PROFILES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C215

CD PROGRESS SET

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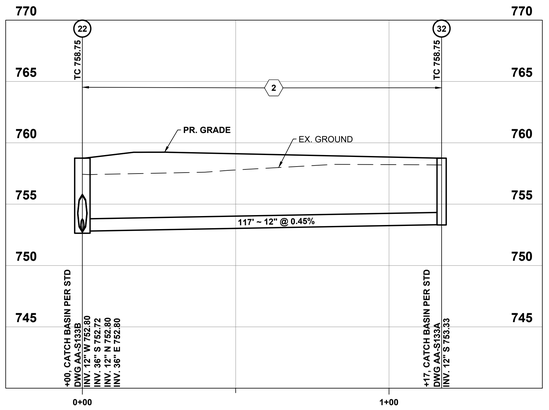

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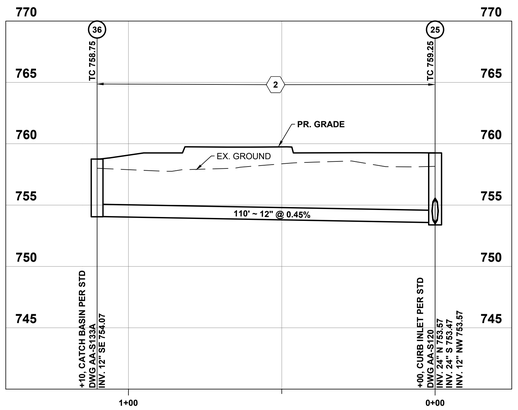

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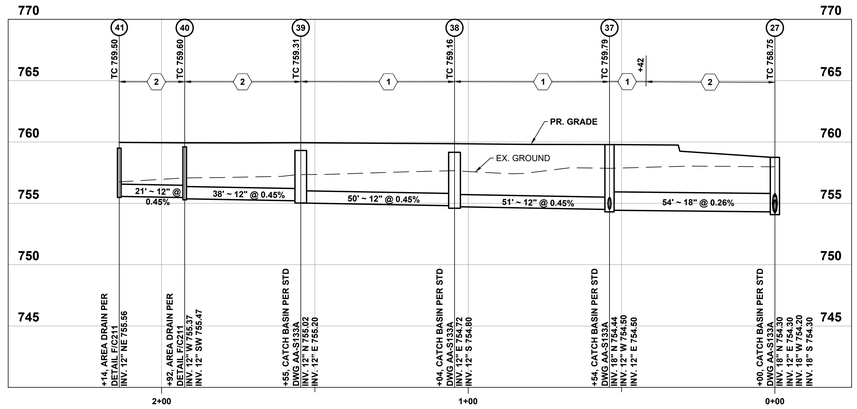

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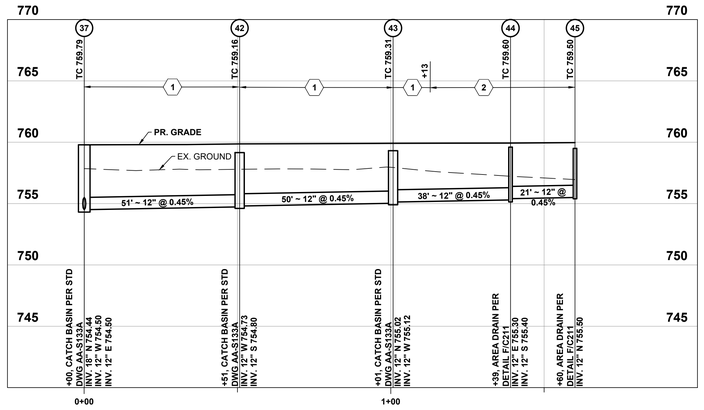

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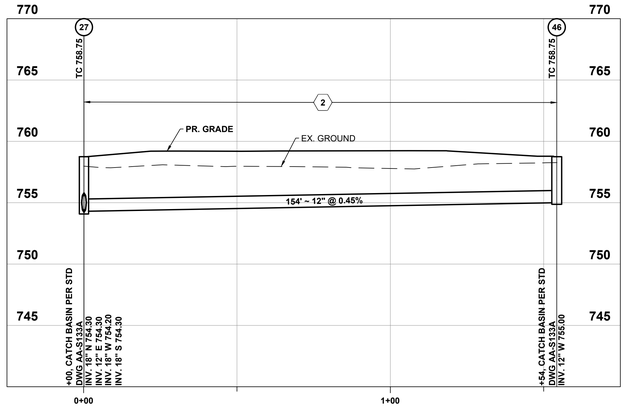

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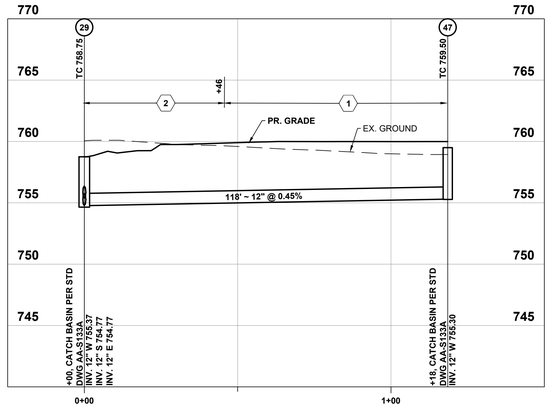

STORM 29-47 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
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EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

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1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR

AGREEMENT	COMPLETED

RPD	CKD	CID	CON.DR.

INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"

SHEET: 16 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

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REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:23 PM
FILE INFO: Autodesk Docs://NEW CMHA Aspire Housing: R23/24/24_CMHA Aspire Housing_ARCH_R23.rvt

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER PROFILES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C216

CD PROGRESS SET

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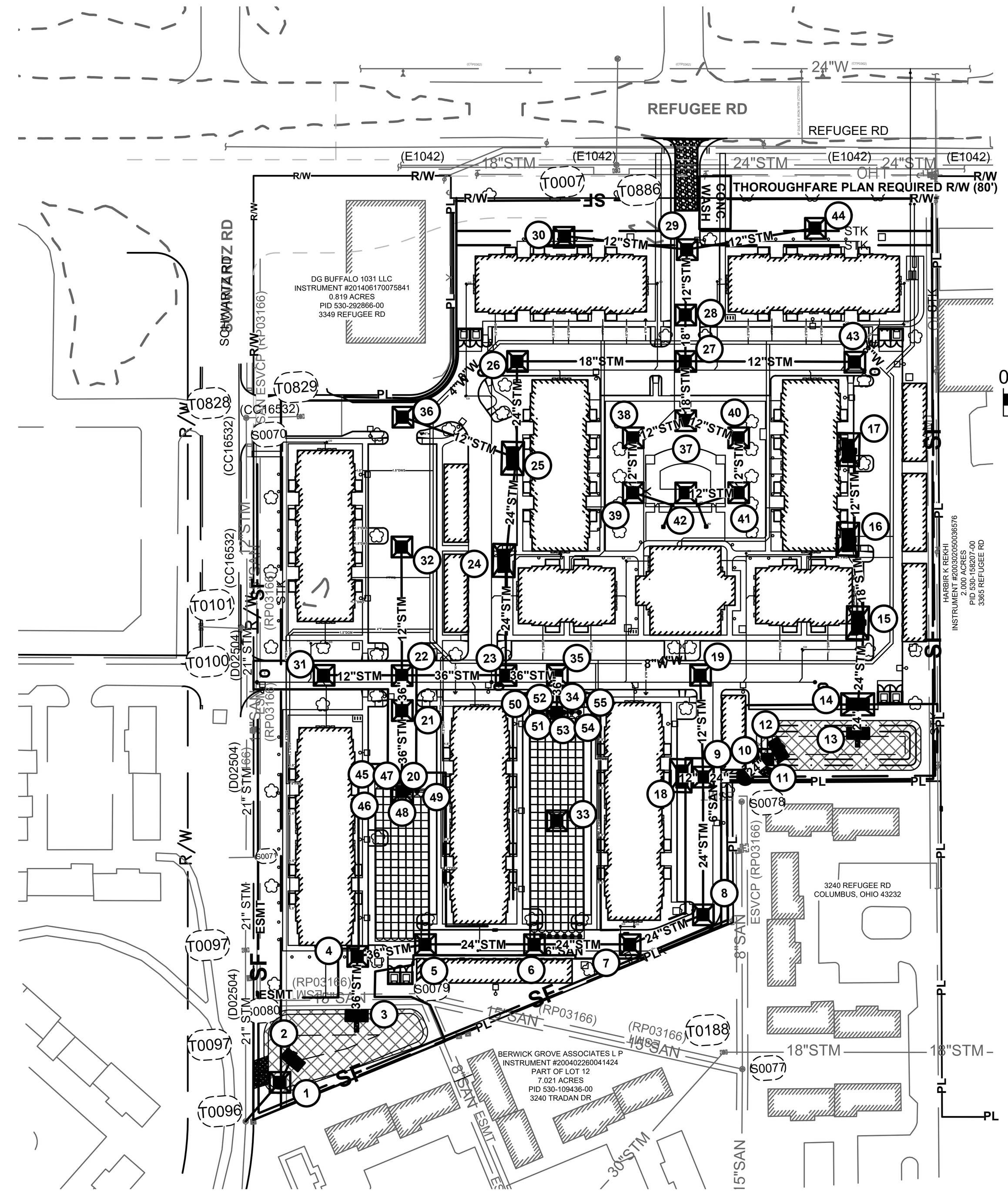

LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

- 800 — INDEX CONTOUR
- 799 — INTERMEDIATE CONTOUR
- LIMITS OF CONSTRUCTION
- SILT FENCE PER DETAIL E/23(C223)
- INLET FILTER PER DETAIL D/23(C223)
- STABILIZED CONSTRUCTION ENTRANCE PER DETAIL B/23(C223)
- CW — CONCRETE WASHOUT PER DETAIL C/23(C223)
- EROSION CONTROL MATTING PER DETAIL C/24(C224)

0 100 200 300

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

1. PROVIDE INLET SEDIMENT FILTER PER DETAIL D/23(C223) AT ALL EXISTING AND PROPOSED STORM INLET STRUCTURES RECEIVING FLOW FROM DISTURBED AREAS.
2. SOIL EROSION AND BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. BMP MEASURES SHALL BE TO THE SATISFACTION OF THE OHIO EPA. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S AND SWPPP AS NECESSARY DUE TO CONSTRUCTION PHASING AS THE PROJECT ADVANCES TO SATISFY THE OHIO EPA TO COMPLY WITH OHIO EPA PERMIT NO. OHC000006 "GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM".
3. UNDER NORMAL CIRCUMSTANCES, NO OVERLAND DISCHARGE SHALL BE ALLOWED FROM SEDIMENT BASIN.

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT. APPLIES TO ALL SWP3 PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPE
1	QUALITY & QUANTITY	0.84	EXTENDED DRY DETENTION
5	QUALITY & QUANTITY	7.15	UNDERGROUND DETENTION
11	QUALITY & QUANTITY	1.310	EXTENDED DRY DETENTION

SUB-SUMMARY OF EROSION CONTROL ITEMS

ITEM NUMBER	QUANTITY	UNIT	ITEM DESCRIPTION	REF. SHEET
207	39	EA	INLET PROTECTION	23(C223)
207	1	EA	CONCRETE WASHOUT	23(C223)
207	2451	LF	SILT FENCE	23(C223)
207	1	EA	CONSTRUCTION ENTRANCE	23(C223)
207	14807	SF	EROSION MATTING	24(C224)
207	2	EA	SEDIMENT MONITOR	24(C224)

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE.	WITHIN TWO DAYS OF REACHING FINAL GRADE.
ANY OTHER AREAS AT FINAL GRADE.	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE PERMIT.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE.	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE.	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER.	PRIOR TO THE ONSET OF WINTER WEATHER.

BURIED DETENTION/WATER QUANTITY POST-CONSTRUCTION INSPECTION & MAINTENANCE SCHEDULE

OWNER'S RESPONSIBILITY

UNDERGROUND DETENTION SYSTEMS NATURALLY COLLECT SEDIMENT, INCLUDING GRAVEL, SAND, AND MUD, AS WELL AS OTHER DEBRIS, SUCH AS LITTER. TO MAINTAIN ITS CAPACITY AND FUNCTION, THE UNDERGROUND DETENTION SYSTEM SHOULD BE KEPT FREE OF EXCESSIVE DEBRIS, LITER, AND SEDIMENT. THE UNDERGROUND DETENTION SYSTEM SHOULD BE INSPECTED BIANNUALLY (BY VISUAL OR CAMERA INSPECTION) FOR THE FIRST YEAR AND THEN ANNUALLY FOR SUBSEQUENT YEARS TO ENSURE THE SYSTEM IS FREE OF SEDIMENT AND DEBRIS. IF FIRST YEAR INSPECTIONS INDICATE HIGH LEVELS OF SEDIMENT ACCUMULATION (REQUIRING MORE THAN ONE REMOVAL OF SEDIMENT/DEBRIS BY JETVAC PROCESS IN THE FIRST YEAR), THE FREQUENCY OF INSPECTION SHOULD BE MODIFIED TO BE BI-ANNUAL UNTIL LOWER LEVELS OF SEDIMENT ACCUMULATION ARE OBSERVED BETWEEN INSPECTION PERIODS. SEDIMENT AND DEBRIS REMOVED FROM THE FEATURES SHOULD BE STORED PROPERLY UNTIL DISPOSAL, ACCORDING TO LOCAL OR OTHER GOVERNING REGULATIONS, TO ENSURE NO EXPOSURE TO STORMWATER RUNOFF. THE FOLLOWING TABLE INDICATES ITEMS TO BE INSPECTED AND THEIR FREQUENCY WHICH MAY VARY FROM THAT NOTED ABOVE.

INSPECTION ITEM	MAINTENANCE PROCEDURE	FREQUENCY
OUTLET STRUCTURE	REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM THE STRUCTURE.	EVERY 6 MONTHS
UNDERGROUND DETENTION SYSTEM	INSPECT AND REMOVE SEDIMENT AND DEBRIS ACCUMULATION WHEN GREATER THAN 6" IN DEPTH.	BI-ANNUALLY (FIRST YEAR) ANNUALLY (EACH SUBSEQUENT YEAR, REFER TO NOTE ABOVE)
INSPECTION PORT	INSPECT AND REMOVE SEDIMENT AND DEBRIS ACCUMULATION WHEN GREATER THAN 3" IN DEPTH.	6 MONTHS (FIRST YEAR) ANNUALLY (EACH SUBSEQUENT YEAR, REFER TO NOTE ABOVE)
ISOLATOR ROW	INSPECT AND REMOVE SEDIMENT AND DEBRIS ACCUMULATION WHEN GREATER THAN 3" IN DEPTH.	6 MONTHS (FIRST YEAR) ANNUALLY (EACH SUBSEQUENT YEAR, REFER TO NOTE ABOVE)
STORM SEWER SYSTEM	INSPECT AND REMOVE (AS NECESSARY) DEBRIS FROM THE SEWER SYSTEM TO ENSURE POSITIVE FLOW TO THE STORM SEWER OUTFALL.	EVERY 6 MONTHS

MAINTENANCE INSPECTION LOGS

THE PROPERTY OWNER, ITS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL MAINTAIN THE STORMWATER CONTROL FACILITY OR FACILITIES IN GOOD WORKING CONDITION ACCEPTABLE TO THE CITY AND IN ACCORDANCE WITH THE SCHEDULE OF LONG-TERM MAINTENANCE ACTIVITIES IN THE STORMWATER CONTROL PRACTICE MAINTENANCE PLAN.

SEDIMENT CLEAN OUT PROCEDURES

1. SET UP ANY NECESSARY SAFETY EQUIPMENT AROUND THE ACCESS PORT OR GRATE AS STIPULATED BY LOCAL ORDINANCES. SAFETY EQUIPMENT SHOULD NOTIFY PASSING PEDESTRIAN AND ROAD TRAFFIC THAT WORK IS BEING DONE.
2. REMOVE THE LIDS TO THE MANHOLE/STRUCTURE.
3. WITHOUT ENTERING THE VESSEL, LOOK DOWN INTO THE CHAMBER TO INSPECT THE INSIDE. MAKE NOTE OF ANY IRREGULARITIES.
4. USING THE FLOATABLES PORT FOR ACCESS, REMOVE OIL AND FLOATABLES STORED ON THE SURFACE OF THE WATER WITH THE VACTOR HOSE OR THE SKIMMER NET.
5. USING A SEDIMENT PROBE SUCH AS A SLUDGE JUDGE®, MEASURE THE DEPTH OF SEDIMENT THAT HAS COLLECTED IN THE SUMP OF THE VESSEL AND RECORD IT IN THE MAINTENANCE LOG. IF THE UNDERGROUND SYSTEM HAS LOST 20% OR MORE OF STORAGE CAPACITY, SEDIMENT REMOVAL NEEDS TO BE COMPLETED. THIS ROUGHLY EQUALS TO DEPTH OF SEDIMENT OF 16".
6. ONCE ALL FLOATABLES HAVE BEEN REMOVED, DROP THE VACUUM HOSE TO THE BASE OF THE SUMP VIA THE CENTRAL ACCESS PORT. VACUUM OUT THE SEDIMENT AND GROSS DEBRIS OFF THE SUMP FLOOR.
7. REMOVE THE VACUUM HOSE FROM THE VESSEL.
8. ON THE MAINTENANCE LOG PROVIDED RECORD THE DATE, UNIT LOCATION, ESTIMATED VOLUME OF FLOATABLES AND GROSS DEBRIS REMOVED, AND THE DEPTH OF SEDIMENT MEASURED. ALSO NOTE ANY APPARENT IRREGULARITIES SUCH AS DAMAGED COMPONENTS OR BLOCKAGES.
9. SECURELY REPLACE THE GRATE OR LID.

POST-CONSTRUCTION POND MAINTENANCE SCHEDULE

THE PROPOSED STORMWATER QUALITY OUTLET STRUCTURE IS A STORMWATER BMP WHICH WILL REQUIRE ONGOING INSPECTION AND MAINTENANCE CLEANING. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THE CONTROL STRUCTURES IS PERPETUAL; BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM. GENERAL RECOMMENDATIONS ARE AS FOLLOWS:

RELEASE CONTROL STRUCTURE	VISUALLY INSPECT AND REMOVE SEDIMENT AND TRASH.	MONTHLY AND AFTER RAINFALL EVENTS 0.5 INCHES OR GREATER OR IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS

MAINTAIN DOCUMENTATION OF ALL INSPECTIONS NOTING WHEN MAINTENANCE IS PERFORMED. PROVIDE DOCUMENTATION TO CITY OF COLUMBUS UPON REQUEST.

THE PROPERTY OWNER, ITS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL MAINTAIN THE STORMWATER CONTROL FACILITY OR FACILITIES IN GOOD WORKING CONDITION ACCEPTABLE TO THE CITY AND IN ACCORDANCE WITH THE SCHEDULE OF LONG-TERM MAINTENANCE ACTIVITIES IN THE STORMWATER CONTROL FACILITY MAINTENANCE PLAN.

EROSION AND SEDIMENT CONTROL NARRATIVE

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: KORDA/NEMETH ENGINEERING INC. 1650 WATERMARK DRIVE, SUITE 200 COLUMBUS, OHIO 43215 PHONE: (614) 487-1650 FAX: (614) 487-8981

OWNER: NAME: COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
ADDRESS: 880 E. 11TH AVE
CONTACT: MIKE WAGNER
PHONE: 614-421-6000
EMAIL: MWAGNER@CMHANET.COM

NOI PERMIT: XXXXXXXX

EXISTING SITE CONDITIONS: THE SITE CONSISTS OF WOODS AREA WITH AN EXISTING WETLAND IN THE CENTER OF THE SITE.

PROJECT DESCRIPTION: THE PROJECT INCLUDES A MULTI-FAMILY RESIDENTIAL CAMPUS. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

DISTURBED AREA: 9.30 ACRES

SITE DRAINS TO: SITE GENERALLY DRAINS TO A CITY OF COLUMBUS MUNICIPAL STORM SEWER WHICH EVENTUALLY DISCHARGES TO ALUM CREEK.

SITE BMPS: LOCATIONS OF SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATION OF BMPS. NO POST-CONSTRUCTION BMPS WILL BE NECESSARY. LESS THAN ONE ACRE DRAINS TO EACH OF THE INLET PROTECTION(S), THEREFORE A TEMPORARY SEDIMENT BASIN WILL NOT BE REQUIRED.

ADJACENT AREAS: THE SITE IS BOUNDED BY REFUGEE RD TO THE NORTH, EXISTING RESIDENCES TO THE SOUTH, AND TO THE EAST, AND SCHWARTZ RD TO THE WEST.

SOILS: ACCORDING TO SOIL SURVEY RECORDS, THE SOIL TYPES ON THE SITE ARE BENNINGTON SILT LOAM WHICH IS HYDROLOGIC SOIL GROUP C/D AND BENNINGTON-URBAN LAND COMPLEX WHICH IS HYDROLOGIC SOIL GROUP C/D.

EROSION AND SEDIMENT CONTROL MEASURES: PROVIDE SILT FENCE AT CRITICAL AREAS AS SHOWN ABOVE. ANY NEW OR EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL. PROVIDE INLET PROTECTION AT EXISTING AND PROPOSED DRAINAGE STRUCTURES. ANY OFFSITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFFSITE AREAS NOT COVERED BY A SEPERATE NOI OR SWP3 SHALL BE COORDINATED WITH THE OHIO EPA. TRENCH GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM. USE MEANS NECESSARY TO CONTROL DUST ONSITE AND PREVENT TRACKING SOIL OFFSITE.

JURISDICTION: EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

COEFFICIENTS: PRE-DEVELOPED CURVE NUMBER = 86
POST-DEVELOPED CURVE NUMBER = 93
EXISTING IMPERVIOUS AREA = 0.01 ACRES
PROPOSED IMPERVIOUS AREA = 6.47 ACRES

CONSTRUCTION SEQUENCE

UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.

1. UTILIZE EXISTING PAVEMENT AS STABILIZED CONSTRUCTION ENTRANCE.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS, PERIMETER EROSION CONTROL MEASURES. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF CONSTRUCTION.
3. DEMOLISH.
4. BACKFILL.
5. ROUGH GRADING. ADD ADDITIONAL SILT FENCE IF NECESSARY.
6. COMPLETE FINE GRADING AND PAVEMENT REPLACEMENT.
8. ONCE FINAL SEEDING HAS BEEN ESTABLISHED, CLEAN SEDIMENT FROM UNDERDRAINS AND STRUCTURES.
9. REMOVE TEMPORARY EROSION CONTROL MEASURES.

MAINTENANCE/INSPECTION PROCEDURES

1. CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24-HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
2. MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
4. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.
5. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTES

1. SOLID, SANITARY AND TOXIC WASTES MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
2. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO A STORM WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH SOLID AND HAZARDOUS WASTES.
3. ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.
4. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.
5. COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED.

DEWATERING

DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

OVERALL EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY | OWNER | CONTRACTOR | INSPECTOR | AGREEMENT | COMPLETED | RPD | CKD | CID | CON.DR. | INDEX DETAIL | RECORD FILE

SCALE: HORIZ 1" = N/A VERT 1" = N/A

SHEET: 17/24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C217 OVERALL EROSION AND SEDIMENT CONTROL PLAN.dwg Saved Date:28-Apr-2025 6:49 PM Plot Date:9:17 AM Saved By: EMEHAN

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:49 PM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
OVERALL EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C217

CD PROGRESS SET

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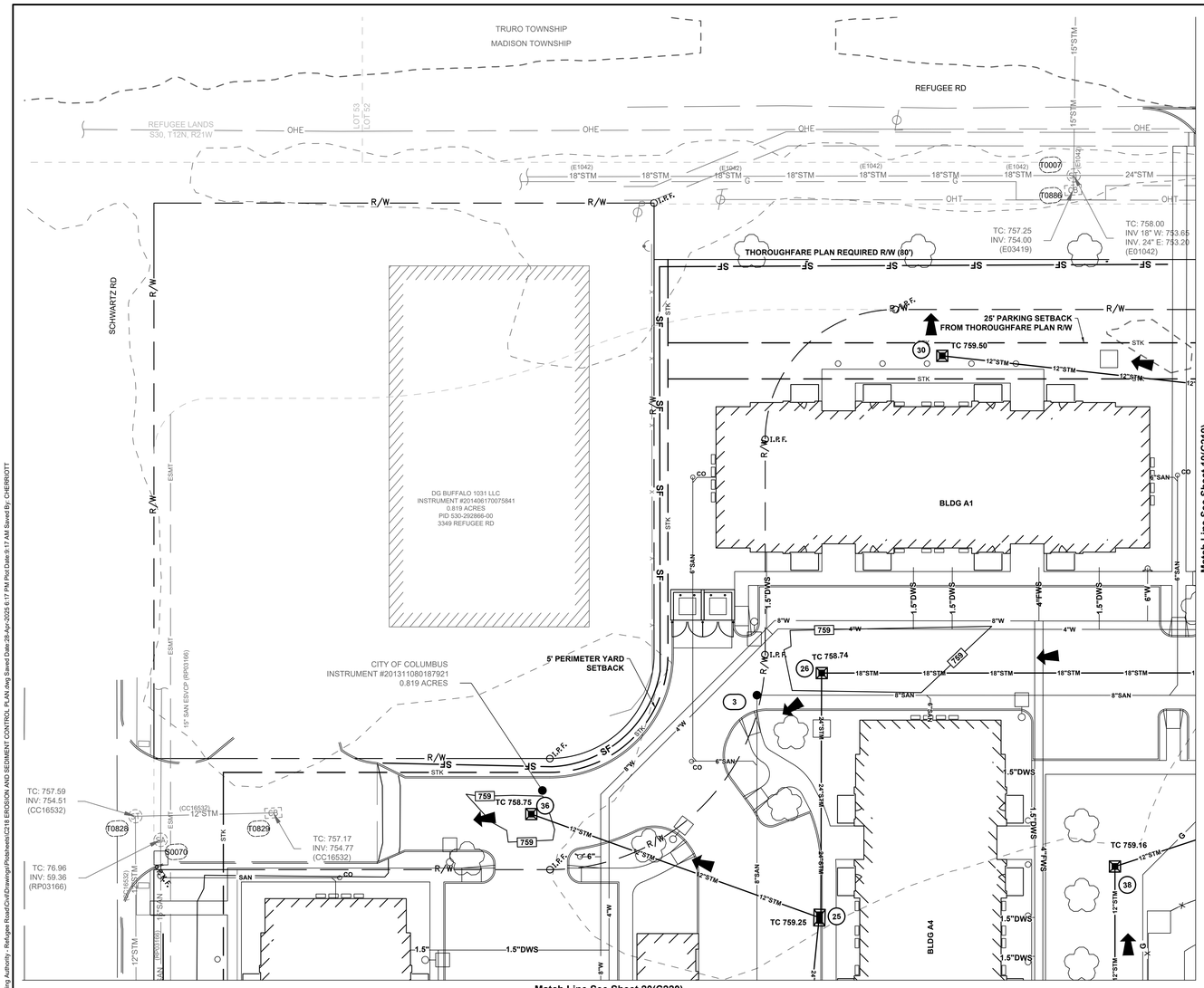

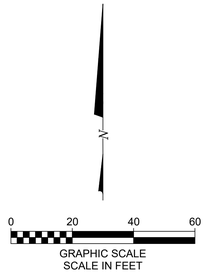

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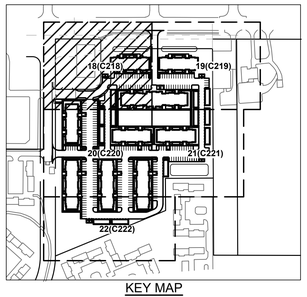
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)



KEY MAP
NTS

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DIVISION USE ONLY				OWNER
				CONTRACTOR
				INSPECTOR
				AGREEMENT / COMPLETED
				RPD / CKD / CID / CON.DR.
				INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 18/24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C218
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

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REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:17 PM
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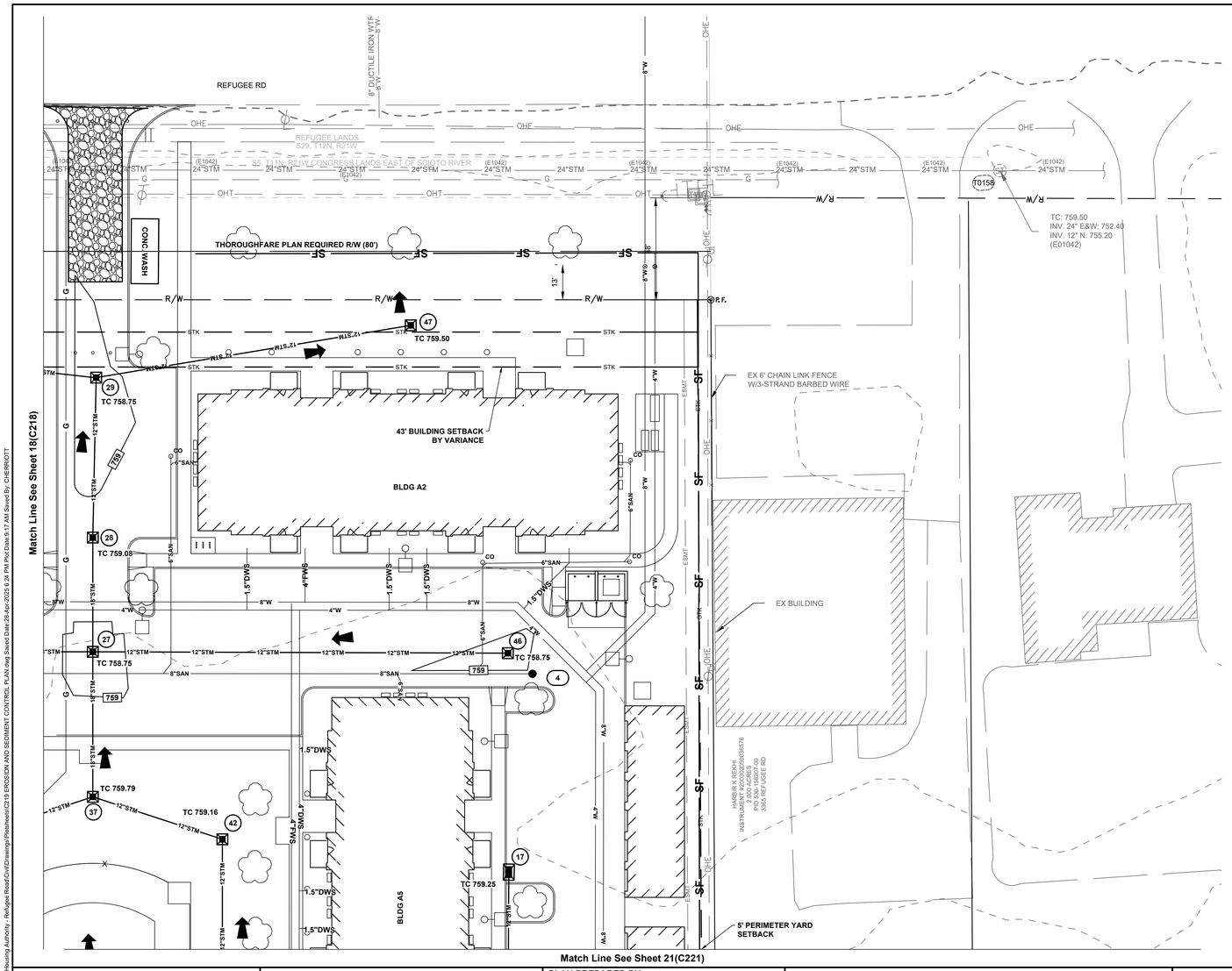

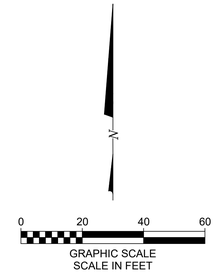

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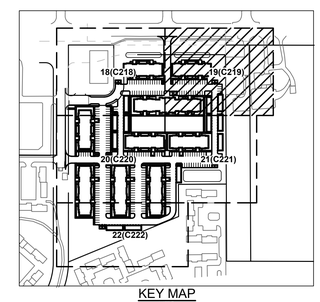
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

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EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0"
VERT 1" = N/A

SHEET: 19 / 24

CONTRACT DRAWING NO.
CC-20647

RECORD PLAN NO.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING
NOT FOR CONSTRUCTION

05/01/2025

23446

C219

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

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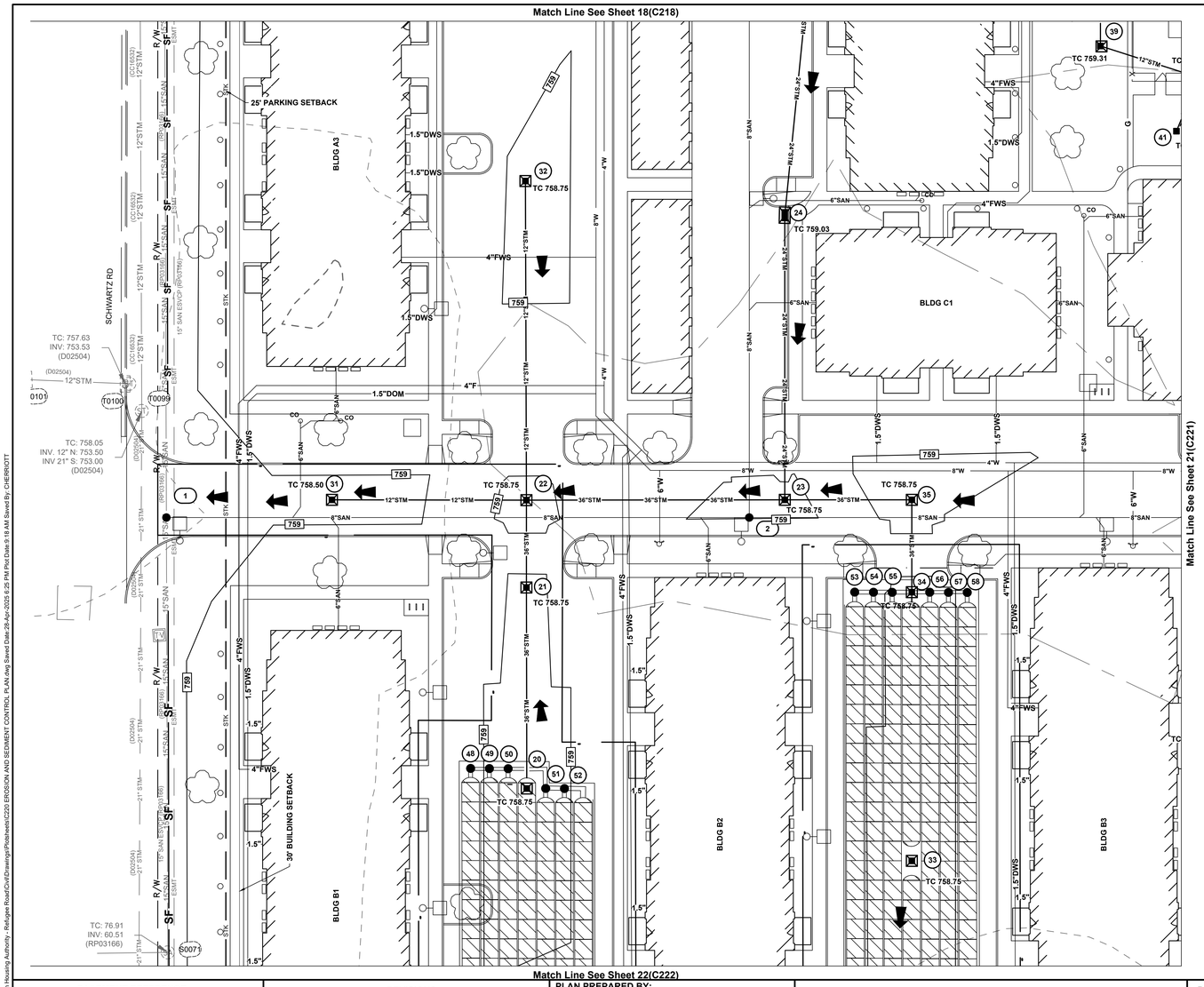

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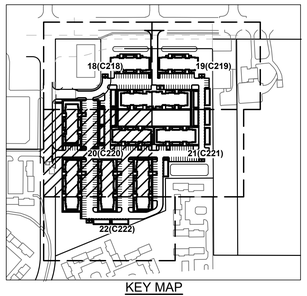
REFER TO SHEET 17(C217)



KEY MAP
NTS

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EROSION AND SEDIMENT CONTROL PLAN

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DIVISION USE ONLY				OWNER
				CONTRACTOR
				INSPECTOR
				AGREEMENT / COMPLETED
				RPD / CKD / CID / CON.DR.
				INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
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SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
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COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
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300 SPRUCE STREET
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CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C220
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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PRINT DATE: 4/28/2025 6:25 PM
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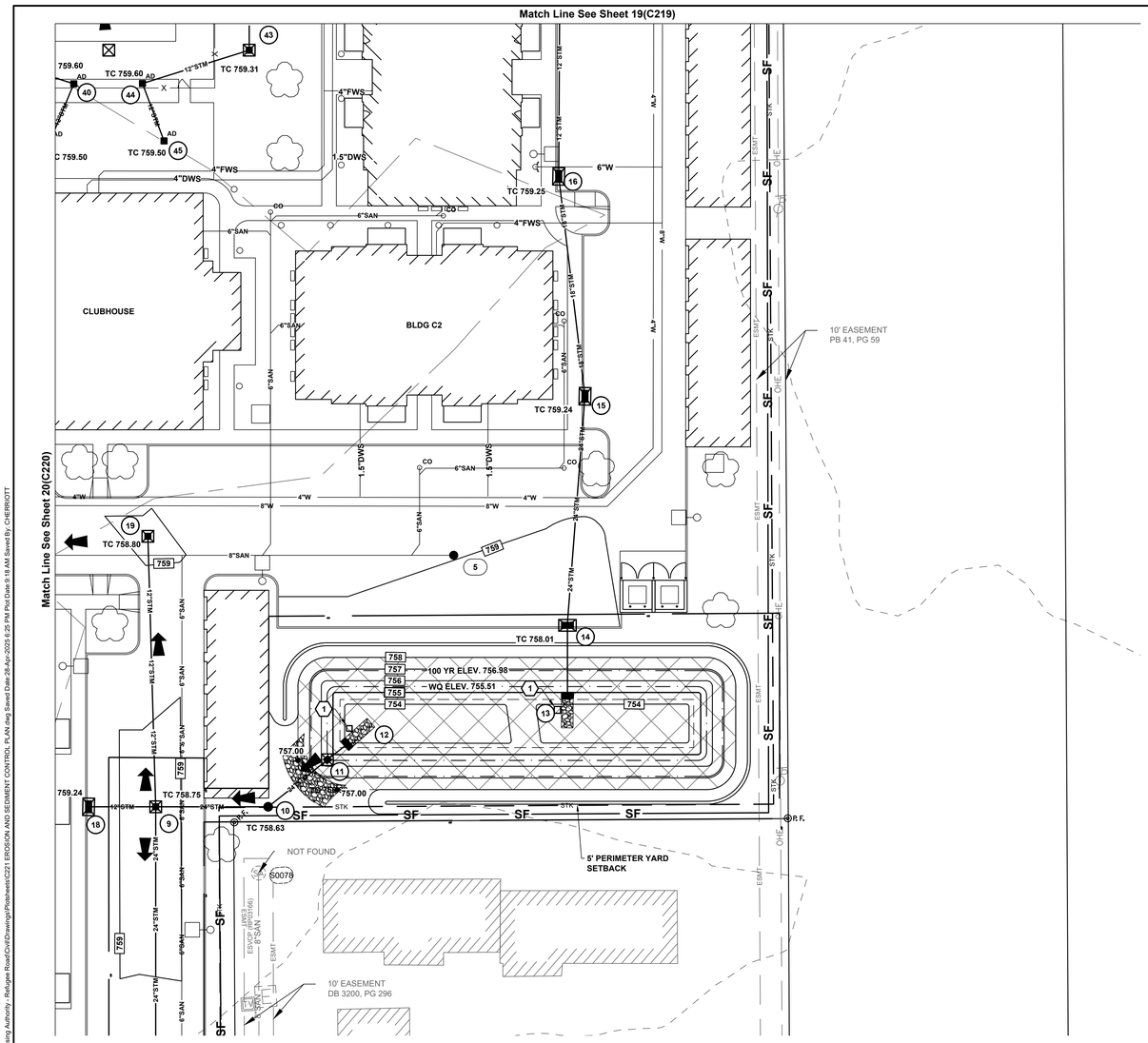


LEGEND

EXISTING

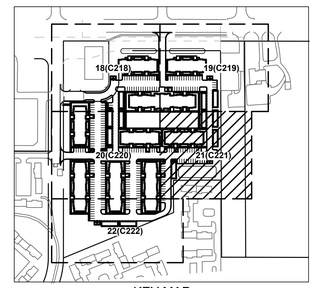
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)

(X) CODED NOTES:

1. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).



KEY MAP
NTS

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PLAN PREPARED BY:

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EROSION AND SEDIMENT CONTROL PLAN

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CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY				OWNER	
				CONTRACTOR	
				INSPECTOR	
				AGREEMENT	COMPLETED
				RPD / CKD	CID / CON.DR.
				INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 21 / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C221

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

File: H:\Projects\2022\2022-0417_DI Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawing\Plansheets\C221 EROSION AND SEDIMENT CONTROL PLAN.dwg Saved Date:28-Apr-2025 6:25 PM Plot Date:9:19 AM Saved By: CHERKOTT

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:25 PM
FILE INFO: Autodesk Docs://4254 CMHA Aspire Housing_R23/4254_CMHA Aspire Housing_ARCH_R23.rvt

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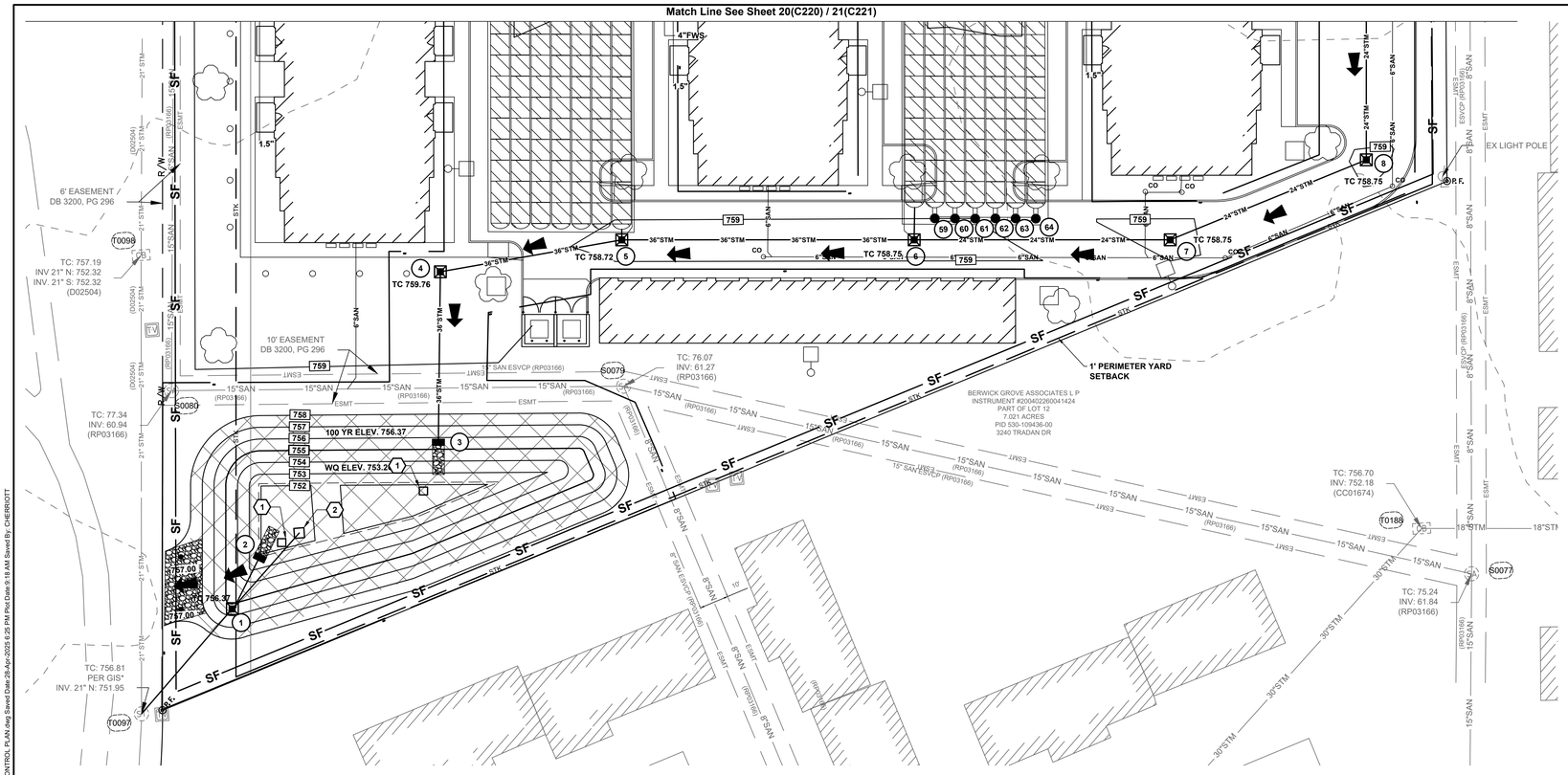


LEGEND

EXISTING

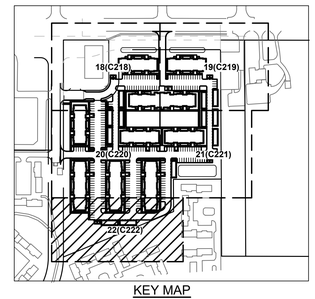
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)

CODED NOTES:

1. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL B/24(C224).
2. TEMPORARY SKIMMER PER DETAIL D/24(C224).



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY				OWNER
				CONTRACTOR
				INSPECTOR
				AGREEMENT / COMPLETED
				RPD / CKD / CID / CON.DR.
				INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 22/24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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EROSION AND SEDIMENT CONTROL PLAN

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05/01/2025
23446
C222
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

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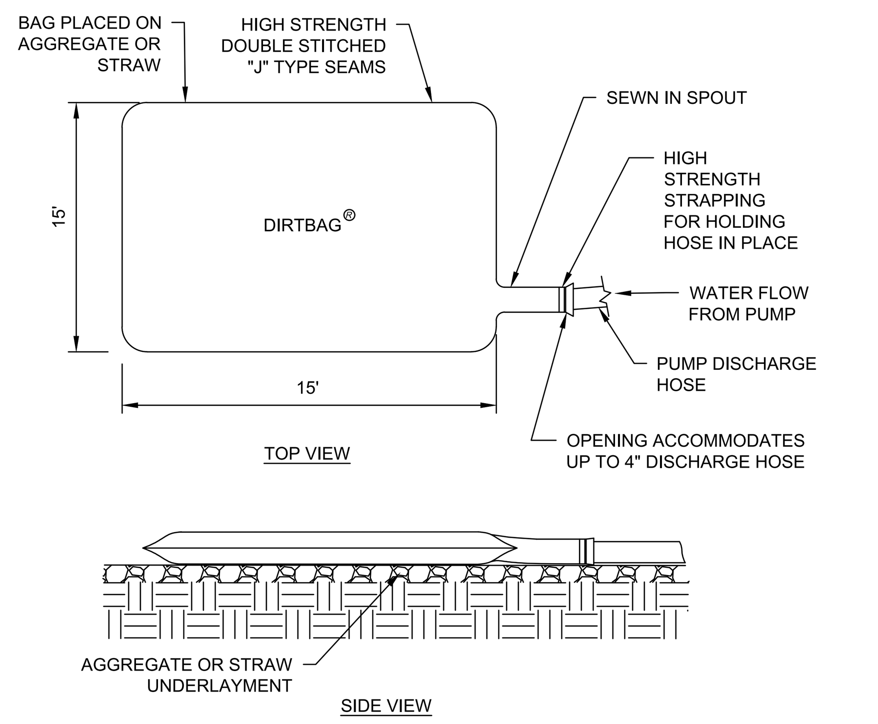
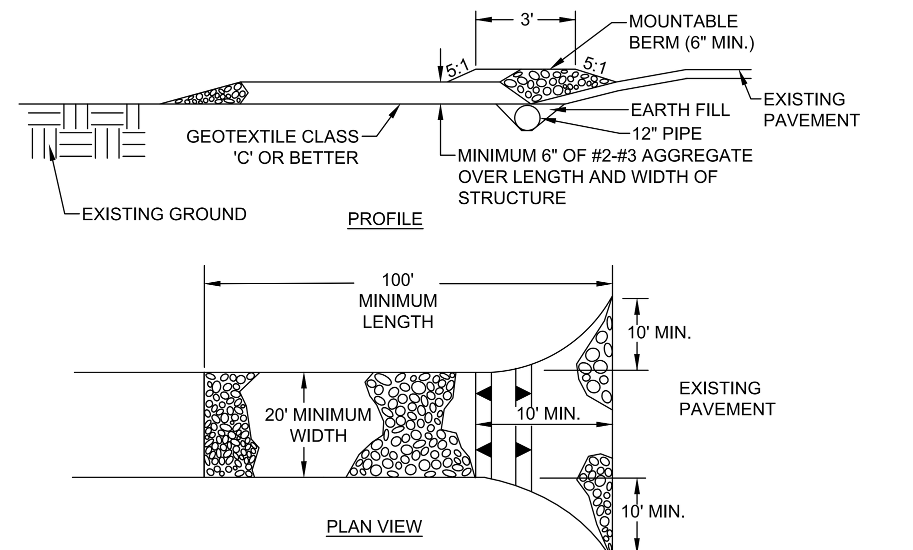


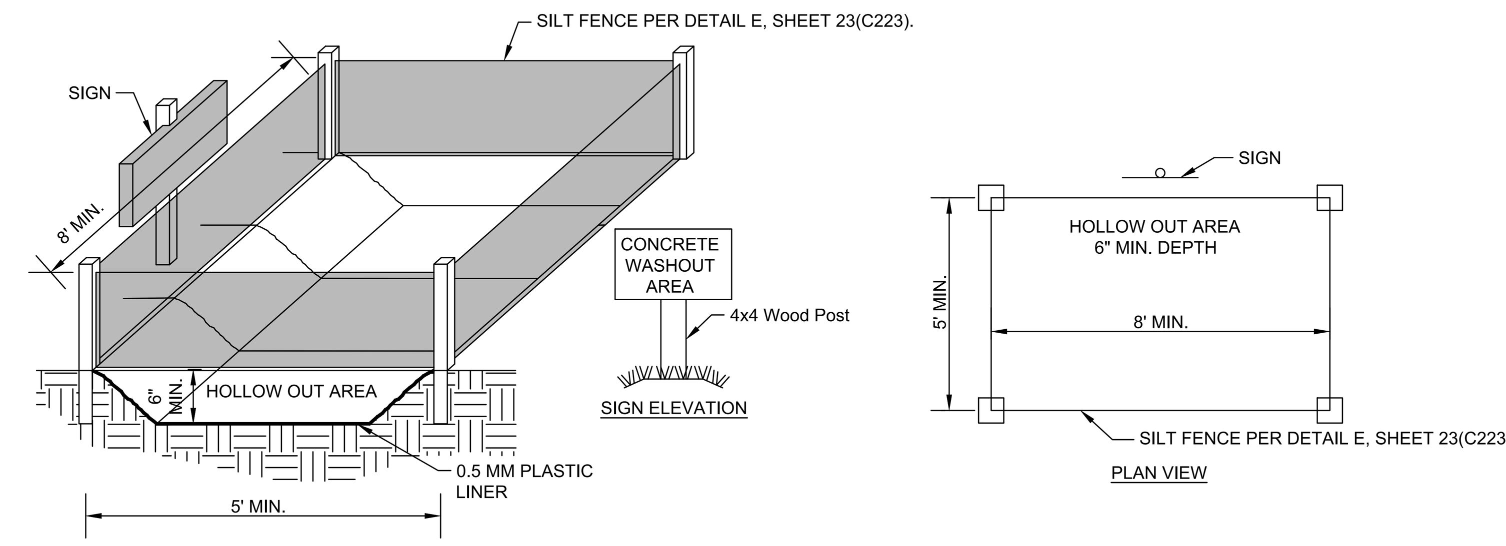
NOTES:
1. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.
2. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.
3. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL ABOVE OF A TYPICAL SEDIMENT BAG INSTALLATION.

A DETAIL
DEWATERING BAG — N.T.S.



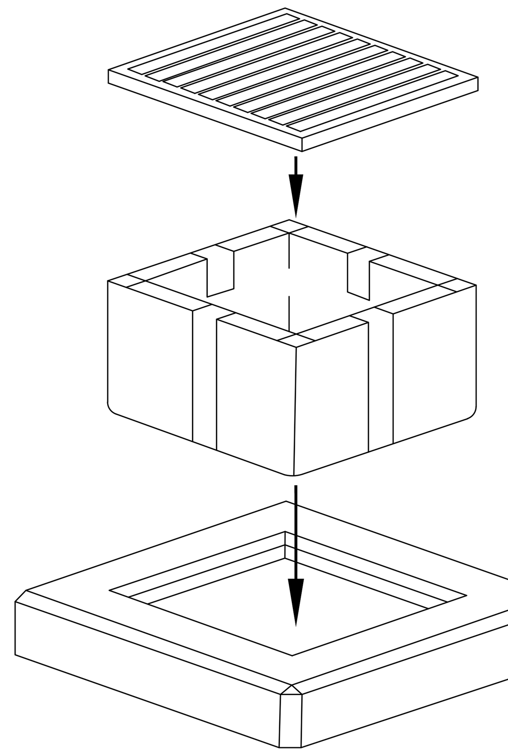
NOTES:
1. LENGTH - MINIMUM OF 100'
2. WIDTH - 20' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.
4. STONE - CRUSHED AGGREGATE (#2 TO #3) OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

B DETAIL
STABILIZED CONSTRUCTION ENTRANCE — N.T.S.



NOTES:
1. CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS.
2. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED PROPERLY.
3. PLACE PLASTIC LINER OVER THE ENTIRE HOLLOW OUT AREA PRIOR TO USE.
4. PROVIDE ITEMS NOTED ABOVE INCLUDING REMOVAL OF CONCRETE WASHOUT UPON COMPLETION OF THE PROJECT AS NOTED IN THE BID PRICE FOR THE PROJECT.
5. FILL HOLLOW AREA TO A DEPTH OF 4 TO 6 INCHES WITH CMSC ITEM 703 AGGREGATE, SIZE #57, #2, OR #4.
6. USE OF ROLL AWAY OR OTHER PORTABLE CONTAINERS IS AN ACCEPTABLE ALTERNATIVE (AND HIGHLY ENCOURAGED) PROVIDED THEY ARE USED IN ACCORDANCE WITH NPDES GUIDELINES ON CONCRETE WASHOUT.

C DETAIL
CONCRETE TRUCK WASHOUT AREA — N.T.S.



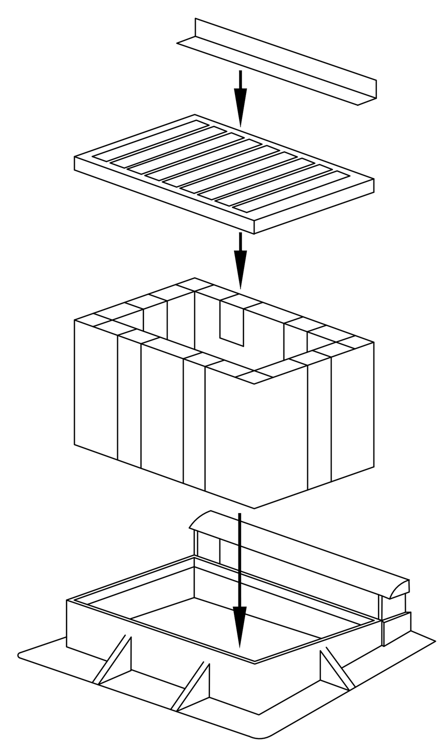
INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.

MAINTENANCE:
1. REMOVE GRATE.
2. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG
   C) VAC-UNIT
3. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
4. REINSTALL BAG.
5. REINSTALL GRATE.

TO BE USED ON STRUCTURES:

EXISTING: N/A

PROPOSED: 1,3,4,5,6,7,8,10,17,18,19,20, 22,25,26,27,28,29,30,31,32, 33,34,35,36,37,38,39,40,42,43,44



INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.
4. INSTALL BONNET GUARD WITH TABS BETWEEN GRATE & BONNET CASTING

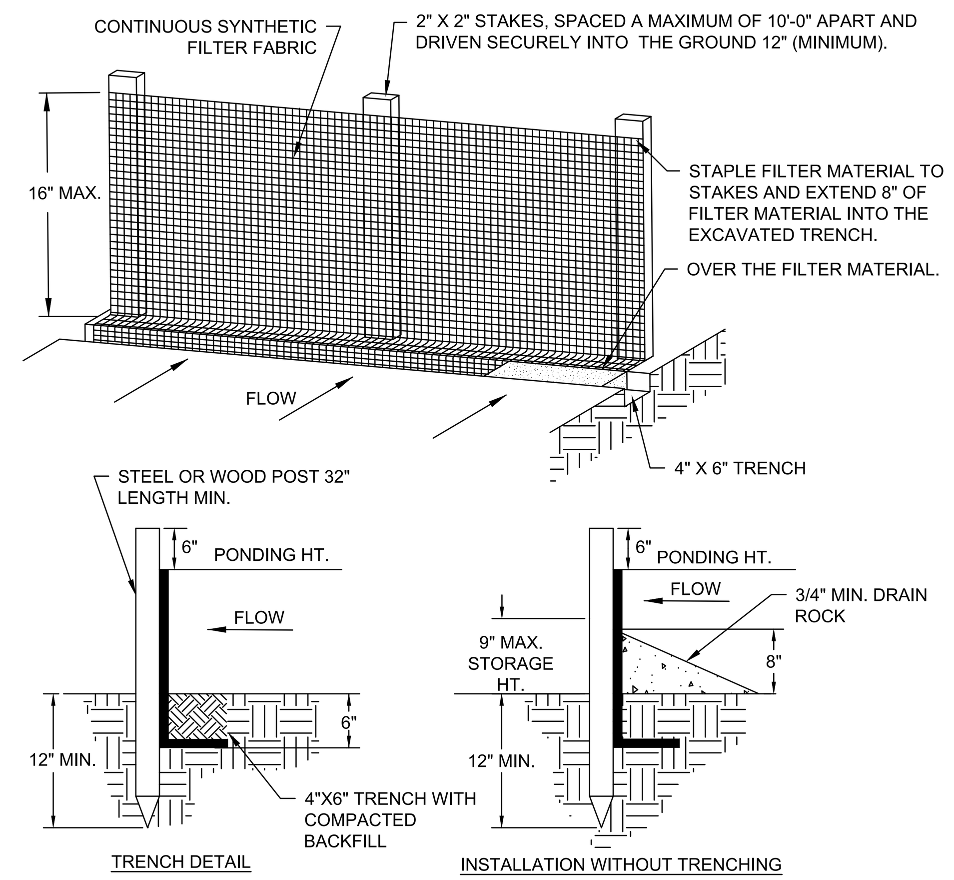
MAINTENANCE:
1. REMOVE THE BONNET GUARD.
2. REMOVE GRATE.
3. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG.
   C) VAC-UNIT
4. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
5. REINSTALL BAG.
6. REINSTALL GRATE.
7. REINSTALL BONNET GUARD.

TO BE USED ON STRUCTURES:

EXISTING: N/A

PROPOSED: 12,13,14,15,16,23,24

D DETAIL
INLET FILTER (BELOW GRATE INLET PROTECTION) — N.T.S.



NOTES:

GENERAL
1. CONSTRUCT SILT FENCE BEFORE UPSLOPE DISTURBANCE BEGINS.
2. BRING ENDS OF SILT FENCE UPSLOPE SLIGHTLY SO THAT PONDING WATER WILL BE PREVENTED FROM FLOWING AROUND ENDS.
3. WHEN POSSIBLE PRESERVE VEGETATION 5 FEET UP UPSLOPE OF THE SILT FENCE. IF REMOVED, REESTABLISH WITHIN 7 DAYS FROM INSTALLATION OF FENCE.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
5. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
8. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES AND COMPOST ROLLS TO BE A MINIMUM OF 12" IN DIAMETER.

MAINTENANCE
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
2. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
3. ANY SEDIMENT DEPOSITS REMAINING AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

E DETAIL
SILT FENCE — N.T.S.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY			OWNER	
			CONTRACTOR	
			INSPECTOR	
			AGREEMENT	COMPLETED
			RPD / CKD	CID / CON.DR.
			INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = N/A, VERT 1" = N/A	SHEET: 23 / 24
CONTRACT DRAWING NO. CC-20647	RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C223

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

REVIT VERSION: 2023
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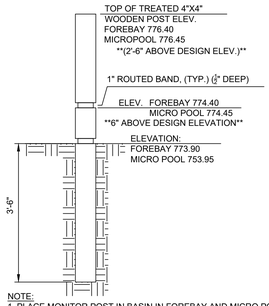
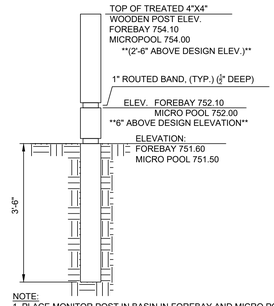


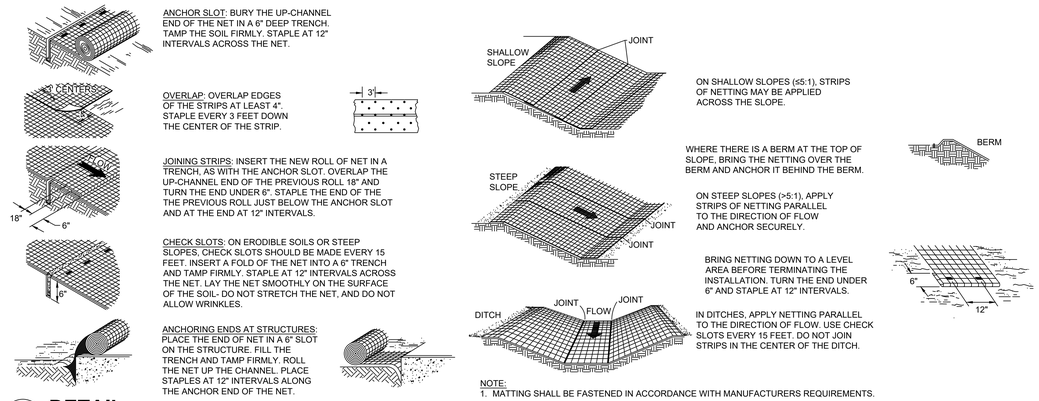
NOTE:
1. PLACE MONITOR POST IN BASIN IN FOREBAY AND MICRO POOL PER SHEET .

A DETAIL
SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST FOR NORTH BASIN N.T.S.



NOTE:
1. PLACE MONITOR POST IN BASIN IN FOREBAY AND MICRO POOL PER SHEET .

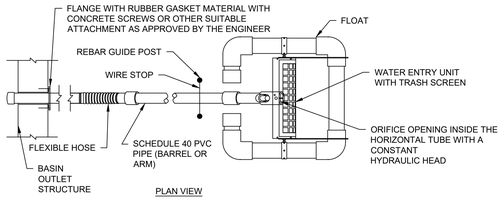
B DETAIL
SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST FOR SOUTH POND FOR SOUTH BASIN N.T.S.

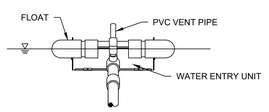


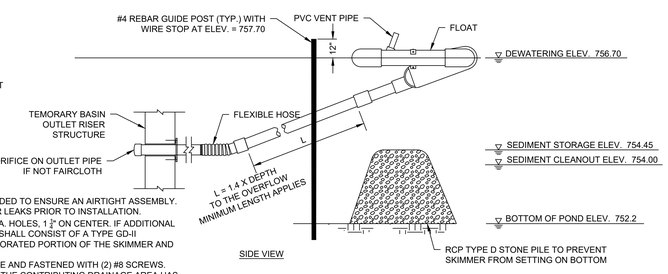
NOTE:
1. MATTING SHALL BE FASTENED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

C DETAIL
INSTALLATION AND ORIENTATION OF NETTING AND MATTING N.T.S.

SUMMARY OF SEDIMENT BASIN CALCULATIONS	
TOTAL SITE DISTURBED AREA TO SEDIMENT BASIN	9.30 AC.
SEDIMENT VOLUME (1,000 CF/AC.)	14,526 CF
TOTAL DRAINAGE AREA TO SEDIMENT BASIN	9.30 AC.
DEWATERING VOLUME (1,800 CF/AC)	17,280 CF
DEWATERING DRAIN TIME	48 HOURS
SKIMMER SIZE/ORIFICE SIZE	3 IN / 2.8 IN







NOTES:
1. PIPE FLOTATION SECTION SHALL BE SOLVENT WELDED TO ENSURE AN AIRTIGHT ASSEMBLY. CONTRACTOR TO CONDUCT A TEST TO CHECK FOR LEAKS PRIOR TO INSTALLATION.
2. SKIMMER SECTION SHALL HAVE (12) ROWS OF ½" DIA. HOLES, 1½" ON CENTER. IF ADDITIONAL FILTRATION IS NECESSARY, THE FILTERING MEDIA SHALL CONSIST OF A TYPE GD-II GEOTEXTILE FABRIC WRAPPED AROUND THE PERFORATED PORTION OF THE SKIMMER AND ATTACHED WITH PLASTIC SNAP TIES, BANDS, ETC.
3. FLEXIBLE PIPE SHALL BE INSERTED INTO SOLID PIPE AND FASTENED WITH (2) #8 SCREWS.
4. THE STRUCTURE SHALL ONLY BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
5. REMOVE SEDIMENT WHEN BASIN IS 40% FULL.
6. ACCEPTABLE MANUFACTURERS: FAIRCLOTH SKIMMER; MARLEE FLOAT SKIMMER, IAS SKIMMER, OR APPROVED EQUAL.

D DETAIL
TEMPORARY SKIMMER FOR SOUTH BASIN N.T.S.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
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EROSION AND SEDIMENT CONTROL DETAILS

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DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 24 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

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#	DATE	CHANGE DESCRIPTION

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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
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Moody Nolan
300 SPRUCE STREET
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COLUMBUS, OHIO 43215
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CERT. NO: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL DETAILS

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

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23446
C224
CD PROGRESS SET

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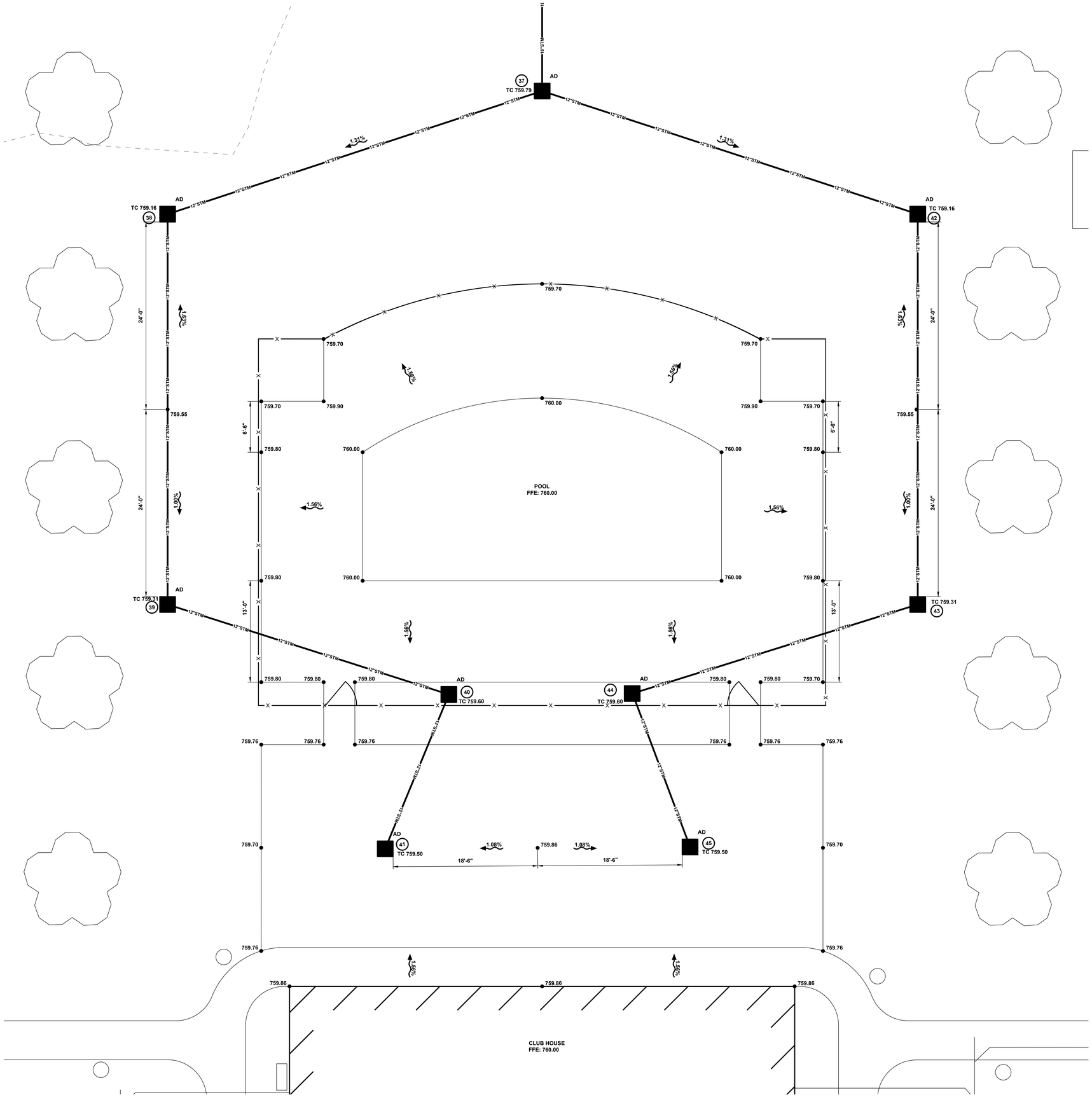


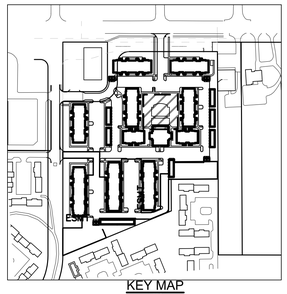
N

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

CODED NOTES:

1. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTE SHEET 2/(C202).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL A/24(C224).



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664

CERT. NO: FIRM 00197475

DRAWING TITLE:
GRADING DETAIL

KORDA
KORDA | NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C225

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 6:20 PM
FILE INFO: Autodesk Docs://2024 CMHA Aspire Housing/ R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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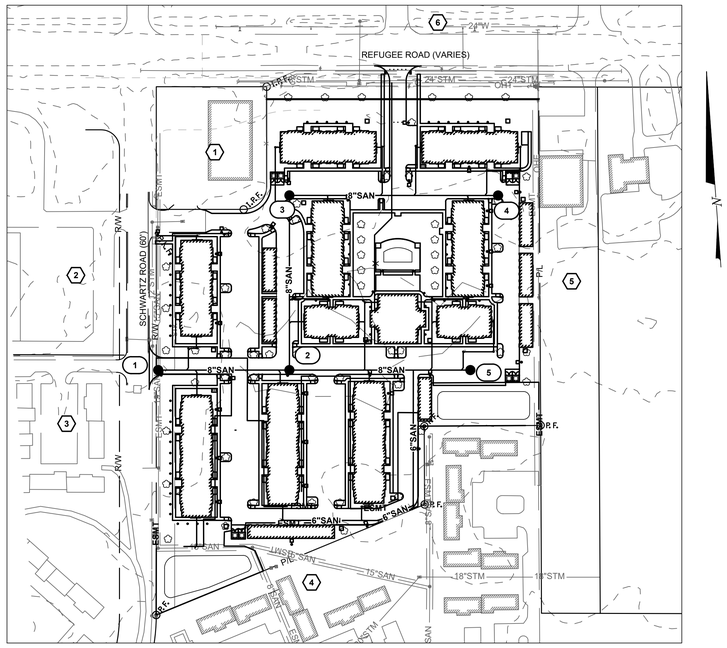
PRIVATE SANITARY SEWER FOR
CMHA REFUGEE ROAD HOUSING DEVELOPMENT
2024

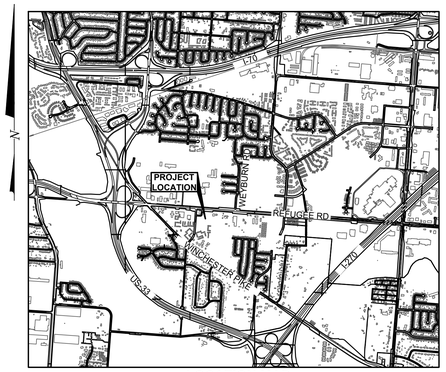
ESTIMATE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
			SANITARY SEWER
XX	X	X	X
XX	X	X	X
XX	X	X	X
XX	X	X	X
XX	X	X	X
XX	X	X	X

PROPERTY OWNERS				
X	OWNER NAME	PARCEL	ADDRESS	ACREAGE
1	DG BUFFALO 1031 LLC	530-292866	3349 REFUGEE RD	0.82
2	THOMPSON JAMES T	530-182793	3333 REFUGEE RD	0.26
3	BERWICK GROVE ASSOCIATES L P	530-156558	2815 BERWICK SQ	10.08
4	BERWICK GROVE ASSOCIATES L P	530-109436	3240 TRADAN DR	7.05
5	REKHI HARBIR K	530-158207	3365 REFUGEE RD	2.01
6	FIRST CHURCH OF GOD INC	010-109331	3480 REFUGEE RD	92.13



INDEX MAP
1"=100'

GRADE & FILL PERMIT	XXXXX-XXX
STORM CC PLAN	CC-XXXXX
SITE COMPLIANCE PLAN	XXXXX-XXXXX
WATER SERVICE PLAN	WSPXXXX



LOCATION MAP
(NOT TO SCALE)

ARCHITECT
NAME MOODY NOLAN
ADDRESS 300 SPRUCE ST SUITE 300
CONTACT: ANUP JANARDHANAN
P: 614-461-4664
EMAIL: ANUPJ@MOODYNOLAN.COM

OWNER
NAME COLUMBUS METROPOLITAN HOUSING AUTHORITY
ADDRESS 880 E 11TH AVE
CONTACT: MIKE WAGNER
P: 614-421-6000
EMAIL: MWAGNER@CMHANET.COM

ENGINEER
NAME KORDA/NEMETH ENGINEERING
ADDRESS 1650 WATERMARK DR
CONTACT: ERIC WALSH
P: 614-487-1650
EMAIL: ERIC.WALSH@KORDA.COM

SHEET INDEX		
CC SHEET	SHEET	DESCRIPTION
1/X	X	TITLE SHEET
2/X	X	GENERAL NOTES & LEGEND
3/X	X	DEMOLITION PLAN
4/X	X	PLAN AND PROFILE

PRIVATE OWNERSHIP NOTE
THE OPERATION AND MAINTENANCE OF ALL SANITARY SEWERS, UNLESS OTHERWISE INDICATED, WHICH ARE PART OF THIS PLAN REMAIN THE RESPONSIBILITY OF THE PRIVATE PROPERTY OWNER. THE CITY OF COLUMBUS WILL ASSUME NO RESPONSIBILITY FOR THE OPERATION AND MAINTENANCE OF THE SYSTEM FOLLOWING CONSTRUCTION COMPLETION AND APPROVAL FOR USE.

NOTE TO PERMIT CLERK, CONTRACTOR, & CONSTRUCTION INSPECTOR
1. THE SERVICE FOR BUILDINGS _____ THRU _____ ARE TO BE INSTALLED AND INSPECTED IN CONJUNCTION WITH THE MAINLINE SEWER.
2. ALL APPROPRIATE PERMIT AND SYSTEM CAPACITY FEES FOR THESE BUILDINGS MUST BE PAID WITH THE STANDBY INSPECTION FEES PRIOR TO INSTALLATION.
3. NO SERVICES MAY BE CONNECTED TO ANY BUILDINGS UNTIL THE MAINLINE AND SERVICE LINE HAVE BEEN INSPECTED, TESTED, AND APPROVED FOR USE.
4. IN THE EVENT THE BUILDING IS CONNECTED TO THE SERVICE BEFORE THE MAINLINE IS APPROVED FOR USE, THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS TO DISCONNECT THE SERVICE AND HAVE ALL AFFECTED LINES THOROUGHLY CLEANED AND DISINFECTED BEFORE ANY FURTHER INSPECTION OR TESTING IS CONDUCTED FOR DIVISION OF CONSTRUCTION INSPECTION APPROVAL OF THE PROJECT.
5. ALL BUILDING SIGN-OFF CARDS WILL BE SIGNED IN THE PERMIT OFFICE AFTER THE MAINLINE SEWER HAS BEEN TESTED AND APPROVED FOR USE.

ON SITE CONTACT: *CONTACT*
PHONE: *PHONE*
E-MAIL: *EMAIL*
SITE IS TRIBUTARY TO: *RIVER*

PERMITS
WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE (614) 645-7497; FAX: (614) 645-1876; EMAIL COLSPERMITS@COLUMBUS.GOV

SANITARY SEWER NOTE
CONNECTION TO SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM SEWER PERMIT OFFICE 111 N FRONT STREET (614) 645-7490.

EDIT STANDARD DRAWING LIST

STANDARD DRAWINGS
THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEROF.

AA-S102	AA-S149
AA-S107	AA-S150
AA-S111	AA-S151
AA-S119	AA-S161

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - WEB www.korda.com

REGISTERED ENGINEER NO. DATE

APPROVED: APPROVALS: SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. **SIGNATURES BELOW INDICATE APPROVAL OF SANITARY SEWER ONLY.**

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION — DATE
ADMINISTRATOR, DIVISION OF POWER — DATE
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE — DATE
ADMINISTRATOR, DIVISION OF WATER — DATE

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY				OWNER		
				CONTRACTOR		
				INSPECTOR		
				AGREEMENT	COMPLETED	
				RPD / CKD	CID / CON.DR.	
				INDEX DETAIL	RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =
SHEET: 1 / 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
TITLE SHEET

KORDA
KORDA /NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C301
CD PROGRESS SET

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REVIT VERSION: 2023
PRINT DATE: 4/28/2025 5:51 PM
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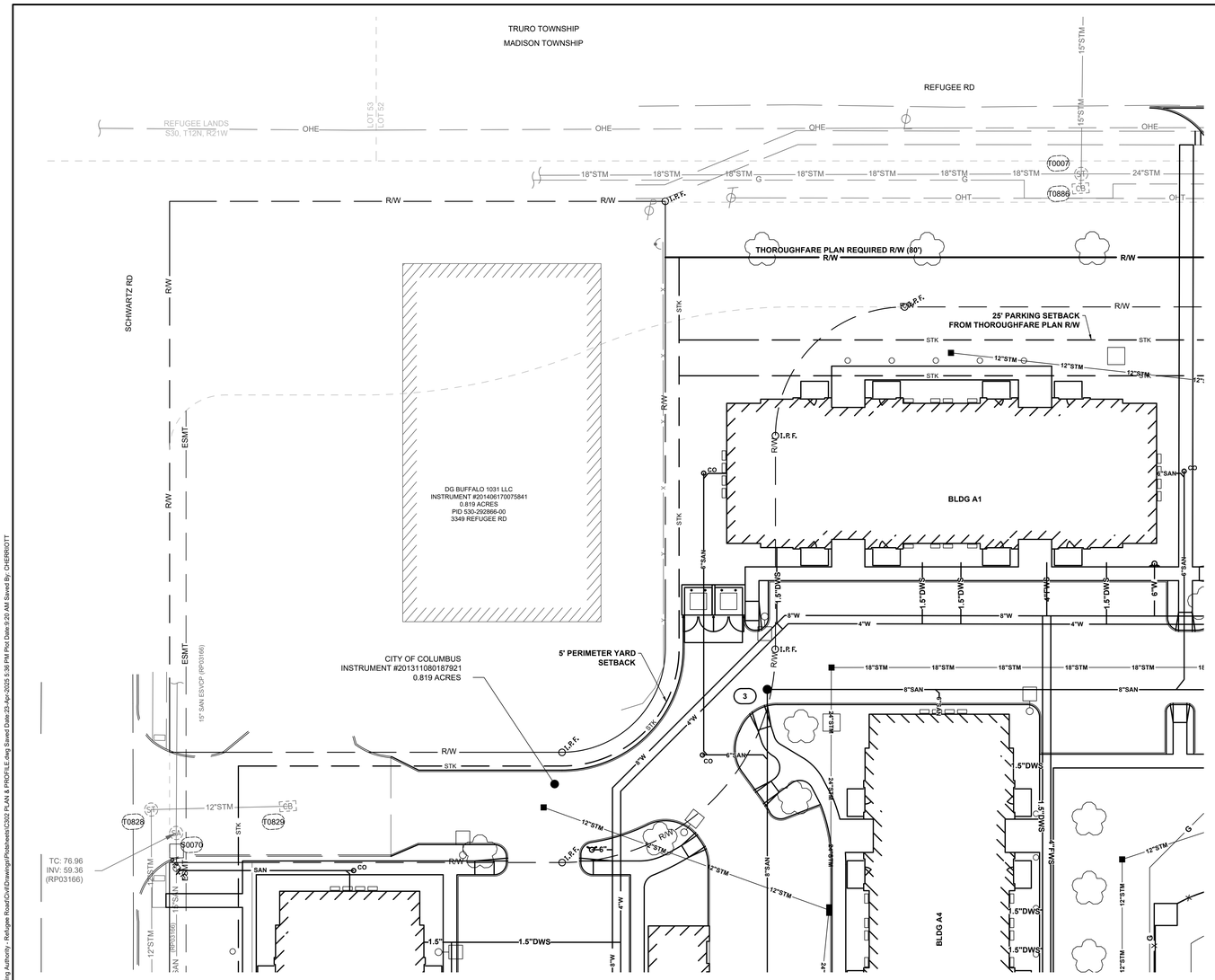

LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- MANHOLE PER STD. DWG. AA-S102
- STRUCTURE NUMBER
- REMOVE AND REPLACE CONCRETE SIDEWALK IN KIND.
- REMOVE AND REPLACE PAVEMENT PER STD. DWG. 1441.

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-XXXXX FOR STORM SEWER INFORMATION

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. CONCRETE ENCASEMENT PER CMSC ITEM 910
4. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15
6. BACKFILL WITH TYPE I FLOWABLE CONTROL DENSITY FILL PER ITEM 613.
7. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
8. SHOW JACK AND BORE BORING AND RECEIVING PITS ON THE PLAN VIEW. CONFIRM APPROPRIATE SIZE OF PIT. TYPICALLY A 14'x6' PIT SIZE WILL WORK BUT PIT SIZE VARIES DEPENDING ON DEPTH, SURROUNDING RESTRICTIONS, AND SIZE OF PIPE. TYPICALLY YOU NEED TO UTILIZE A PIPE SIZE 6"-12" LARGER IN DIAMETER TO THE SEWER PIPE. VERIFY CASING PIPE SIZE.

SANITARY SERVICE SCHEDULE

MAINLINE SEWER STRUCTURE NUMBER	BLDG	WYE SIZE	WYE STATION	SERVICE LENGTH	ELEVATION AT END OF SERVICE	PERMIT NUMBER
X-X						

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY						
				OWNER		
				CONTRACTOR		
				INSPECTOR		
				AGREEMENT	COMPLETED	
				RPD	CKD	CID / CON.DR.
				INDEX DETAIL	RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =

SHEET: / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SANITARY PLAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C302

CD PROGRESS SET

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REVIT VERSION: 2023
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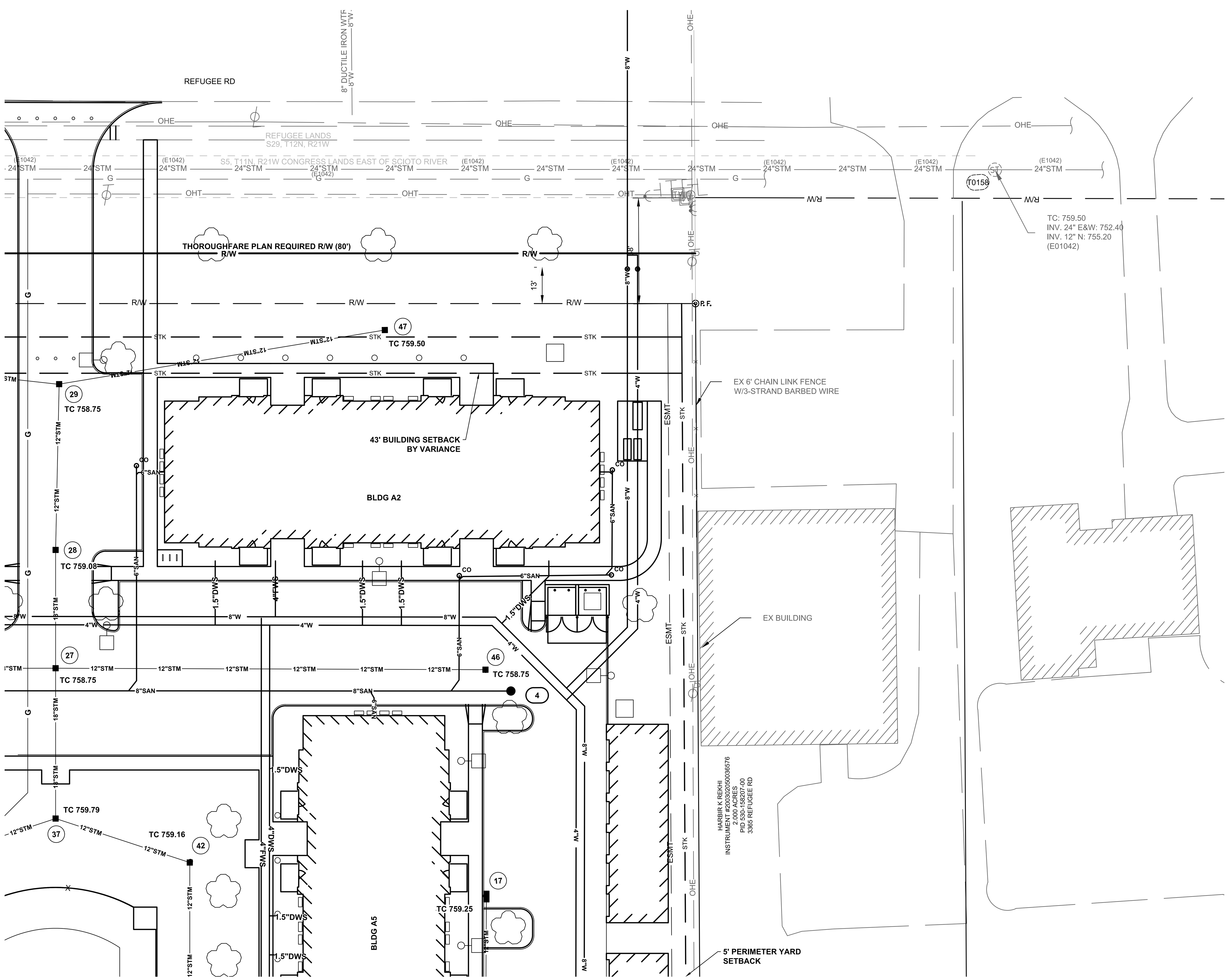

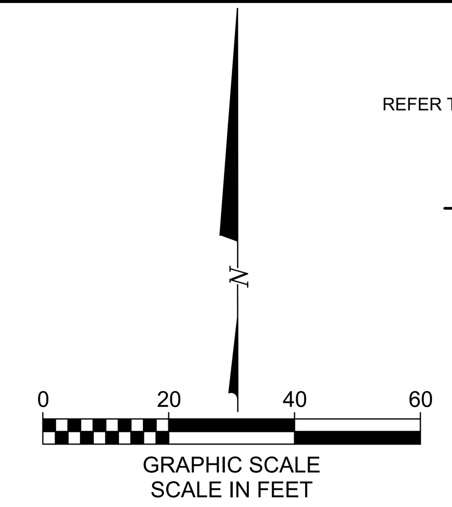

LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

SAN	SANITARY SEWER
●	MANHOLE PER STD. DWG. AA-S102
(1)	STRUCTURE NUMBER
	REMOVE AND REPLACE CONCRETE SIDEWALK IN KIND.
	REMOVE AND REPLACE PAVEMENT PER STD. DWG. 1441.

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED ________. REFER TO SHEET ______.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-XXXXX FOR STORM SEWER INFORMATION

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. CONCRETE ENCASEMENT PER CMSC ITEM 910
4. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15
6. BACKFILL WITH TYPE I FLOWABLE CONTROL DENSITY FILL PER ITEM 613.
7. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
8. SHOW JACK AND BORE BORING AND RECEIVING PITS ON THE PLAN VIEW. CONFIRM APPROPRIATE SIZE OF PIT. TYPICALLY A 14'x6' PIT SIZE WILL WORK BUT PIT SIZE VARIES DEPENDING ON DEPTH, SURROUNDING RESTRICTIONS, AND SIZE OF PIPE. TYPICALLY YOU NEED TO UTILIZE A PIPE SIZE 6"-12" LARGER IN DIAMETER TO THE SEWER PIPE. VERIFY CASING PIPE SIZE.

SANITARY SERVICE SCHEDULE

MAINLINE SEWER STRUCTURE NUMBER	BLDG	WYE SIZE	WYE STATION	SERVICE LENGTH	ELEVATION AT END OF SERVICE	PERMIT NUMBER
X-X						

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY | OWNER | CONTRACTOR | INSPECTOR | AGREEMENT | COMPLETED | RPD | CKD | CID | CON.DR. | INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =

SHEET: / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

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#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SANITARY PLAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C303

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 3:46 PM
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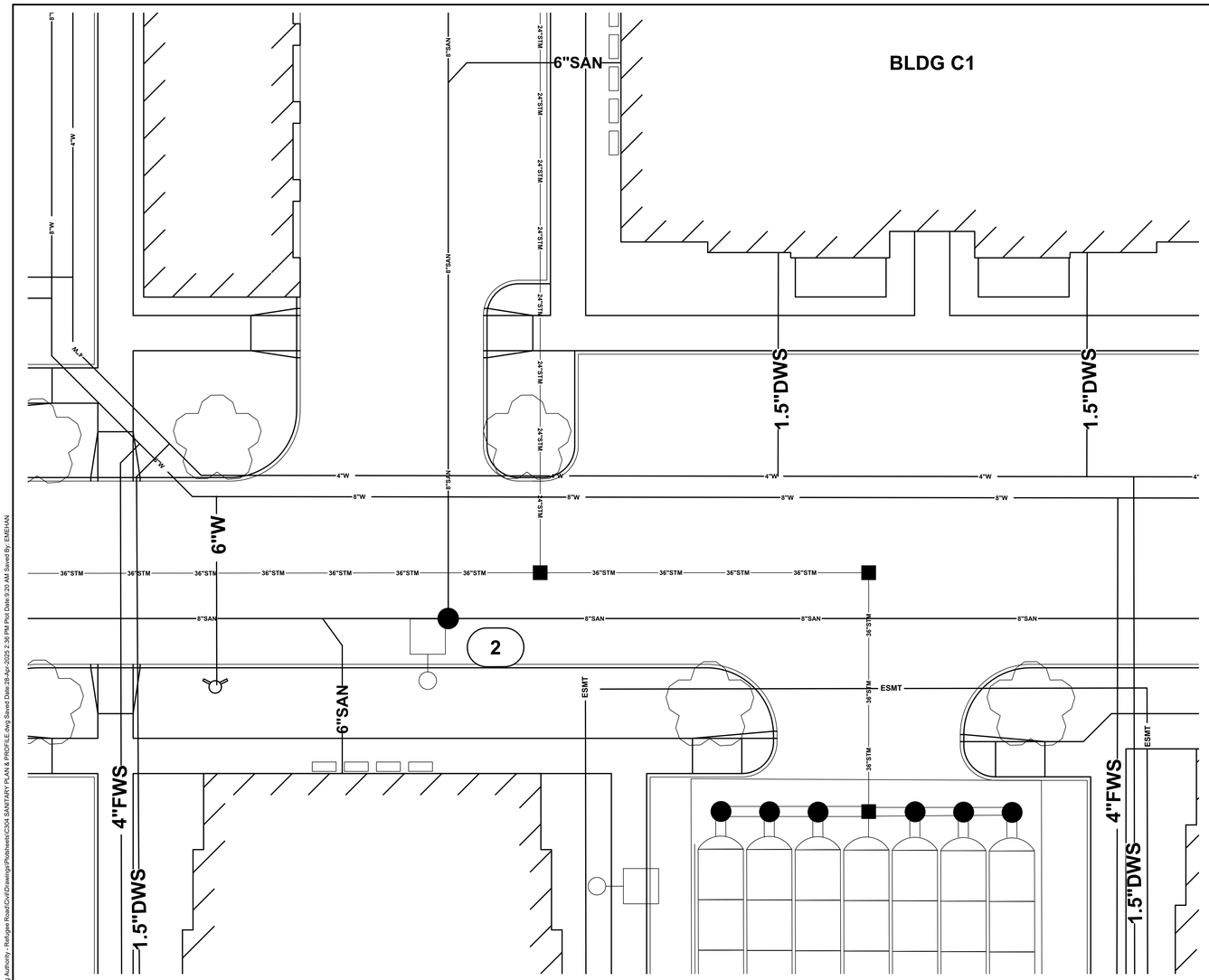

LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- MANHOLE PER STD. DWG. AA-S102
- (1) STRUCTURE NUMBER
- REMOVE AND REPLACE CONCRETE SIDEWALK IN KIND.
- REMOVE AND REPLACE PAVEMENT PER STD. DWG. 1441.

N

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-XXXXX FOR STORM SEWER INFORMATION

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. CONCRETE ENCASEMENT PER CMSC ITEM 910
4. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15
6. BACKFILL WITH TYPE I FLOWABLE CONTROL DENSITY FILL PER ITEM 613.
7. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
8. SHOW JACK AND BORE BORING AND RECEIVING PITS ON THE PLAN VIEW. CONFIRM APPROPRIATE SIZE OF PIT. TYPICALLY A 14'x6' PIT SIZE WILL WORK BUT PIT SIZE VARIES DEPENDING ON DEPTH, SURROUNDING RESTRICTIONS, AND SIZE OF PIPE. TYPICALLY YOU NEED TO UTILIZE A PIPE SIZE 6"-12" LARGER IN DIAMETER TO THE SEWER PIPE. VERIFY CASING PIPE SIZE.

SANITARY SERVICE SCHEDULE

MAINLINE SEWER STRUCTURE NUMBER	BLDG	WYE SIZE	WYE STATION	SERVICE LENGTH	ELEVATION AT END OF SERVICE	PERMIT NUMBER
X-X						

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY	OWNER
	CONTRACTOR
	INSPECTOR
	AGREEMENT / COMPLETED
	RPD / CKD / CID / CON.DR.
	INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =

SHEET: 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SANITARY PLAN

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C304

CD PROGRESS SET

File: H:\Projects\0222\2022\2-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C304 SANITARY PLAN & PROFILE.dwg Saved Date: 28-Apr-2025 2:36 PM Plot Date: 5/20 AM Saved By: EMEHAN

REVIT VERSION: 2023
PRINT DATE: 4/28/2025 2:35 PM
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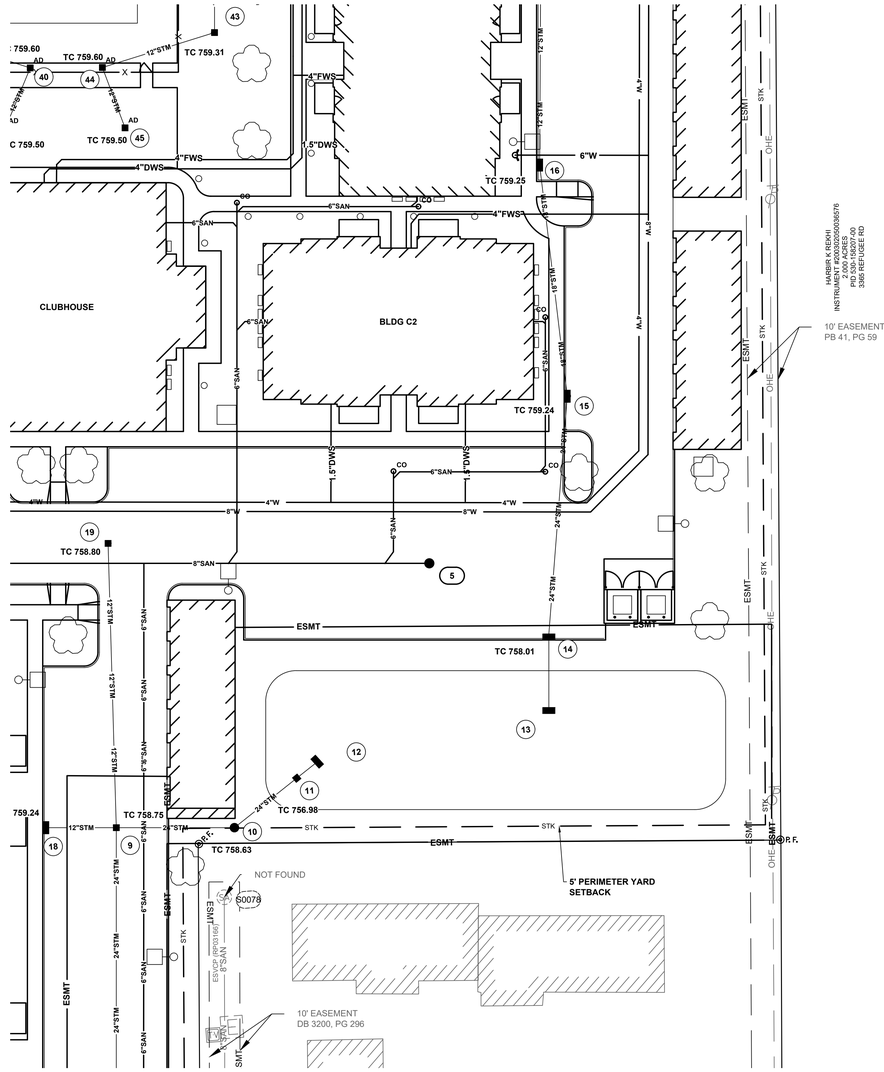

LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- MANHOLE PER STD. DWG. AA-S102
- (1) STRUCTURE NUMBER
- REMOVE AND REPLACE CONCRETE SIDEWALK IN KIND.
- REMOVE AND REPLACE PAVEMENT PER STD. DWG. 1441.

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-XXXXX FOR STORM SEWER INFORMATION

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. CONCRETE ENCASEMENT PER CMSC ITEM 910
4. INSTALL REINFORCED CONCRETE PIPE PER CMSC ITEM 706.02.
5. SEWER PIPE WITH WATERTIGHT JOINTS PER CMSC ITEM 901.15
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7. PROVIDE ODOT TYPE C ROCK CHANNEL PROTECTION 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
8. SHOW JACK AND BORE BORING AND RECEIVING PITS ON THE PLAN VIEW. CONFIRM APPROPRIATE SIZE OF PIT. TYPICALLY A 14'x6' PIT SIZE WILL WORK BUT PIT SIZE VARIES DEPENDING ON DEPTH, SURROUNDING RESTRICTIONS, AND SIZE OF PIPE. TYPICALLY YOU NEED TO UTILIZE A PIPE SIZE 6"-12" LARGER IN DIAMETER TO THE SEWER PIPE. VERIFY CASING PIPE SIZE.

SANITARY SERVICE SCHEDULE

MAINLINE SEWER STRUCTURE NUMBER	BLDG	WYE SIZE	WYE STATION	SERVICE LENGTH	ELEVATION AT END OF SERVICE	PERMIT NUMBER
X-X						

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY	OWNER		
	CONTRACTOR		
	INSPECTOR		
	AGREEMENT	COMPLETED	
RPD / CKD	CID	CON.DR.	
INDEX DETAIL	RECORD FILE		

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =

SHEET: / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

File: H:\Projects\2022\2022-0431_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C305 SANITARY PLAN.dwg Saved Date:23-Apr-2025 2:53 PM Plot Date:9:21 AM Saved By: CHERWOTT

REVIT VERSION: 2023
PRINT DATE: 4/23/2025 2:53 PM
FILE INFO: Autodesk Docs://4254 CMHA Aspire Housing: R23/4254_CMHA Aspire Housing_ARCH_R23.rvt

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C305

CD PROGRESS SET

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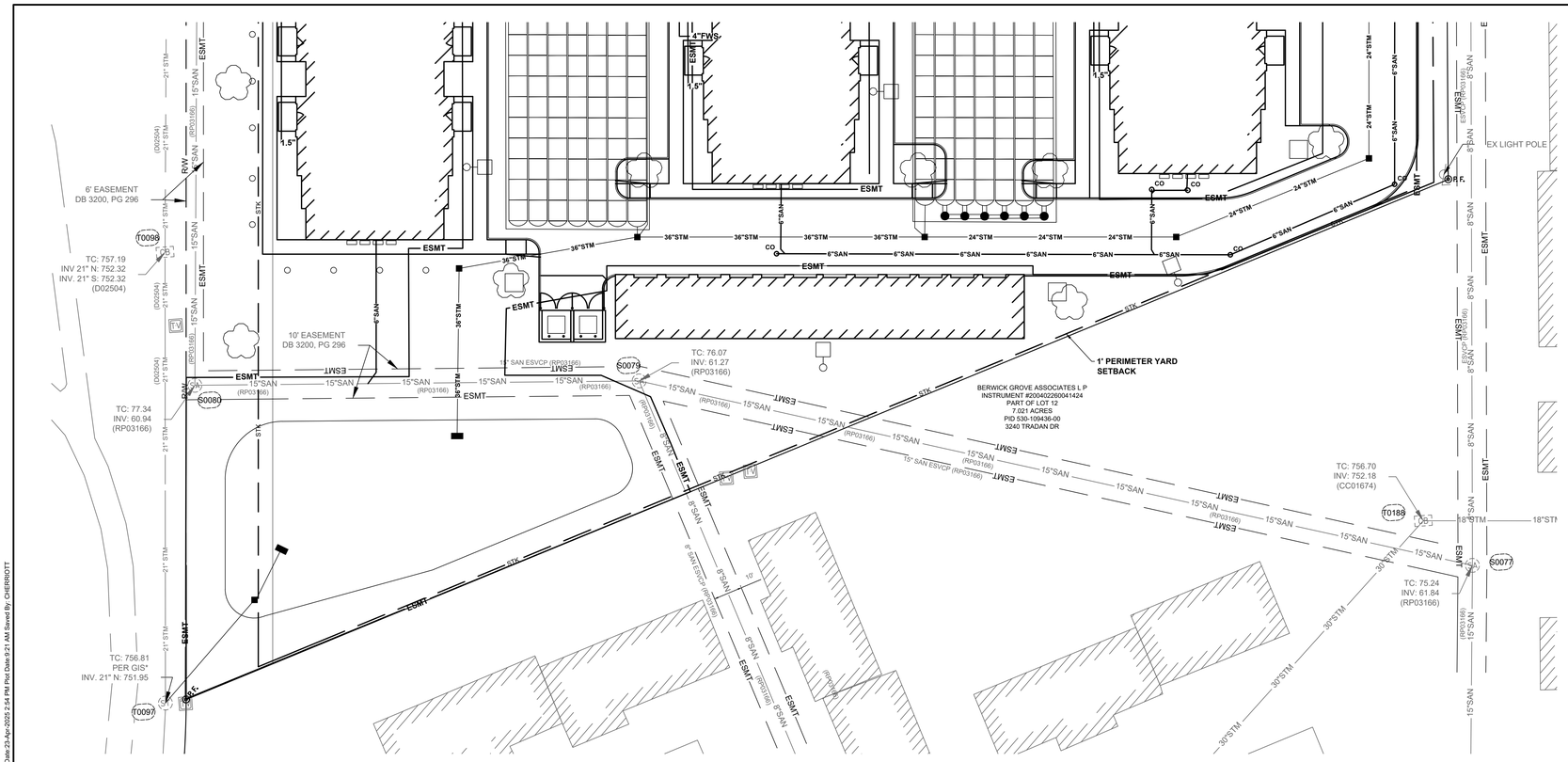

0 20 40 60
GRAPHIC SCALE
SCALE IN FEET

LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

SAN	SANITARY SEWER
●	MANHOLE PER STD. DWG. AA-S102
(1)	STRUCTURE NUMBER
	REMOVE AND REPLACE CONCRETE SIDEWALK IN KIND.
	REMOVE AND REPLACE PAVEMENT PER STD. DWG. 1441.

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-XXXXX FOR STORM SEWER INFORMATION

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. CONCRETE ENCASEMENT PER CMSC ITEM 910
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SANITARY SERVICE SCHEDULE

MAINLINE SEWER STRUCTURE NUMBER	BLDG	WYE SIZE	WYE STATION	SERVICE LENGTH	ELEVATION AT END OF SERVICE	PERMIT NUMBER
X-X						

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY				OWNER	
				CONTRACTOR	
				INSPECTOR	
				AGREEMENT	COMPLETED
				RPD / CKD	CID / CON.DR.
				INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =

SHEET: / 24

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C306

CD PROGRESS SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road Cov\Drawings\Plotsheets\C306 SANITARY PLAN.dwg Saved Date:23-Apr-2025 2:24 PM Plot Date:9:21 AM Saved By: CHERNGUTT

REVIT VERSION: 2023
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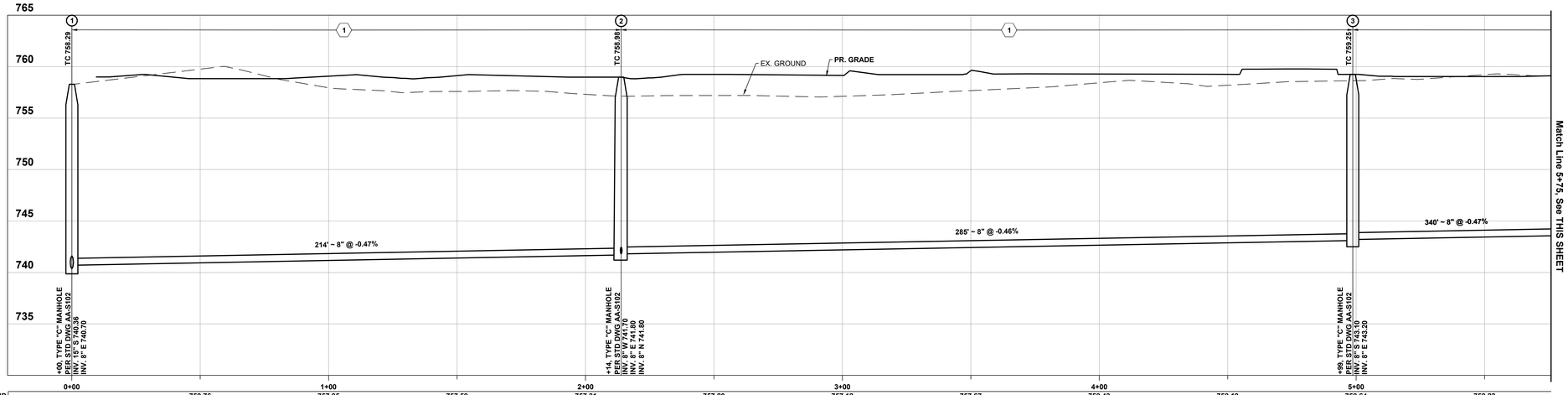
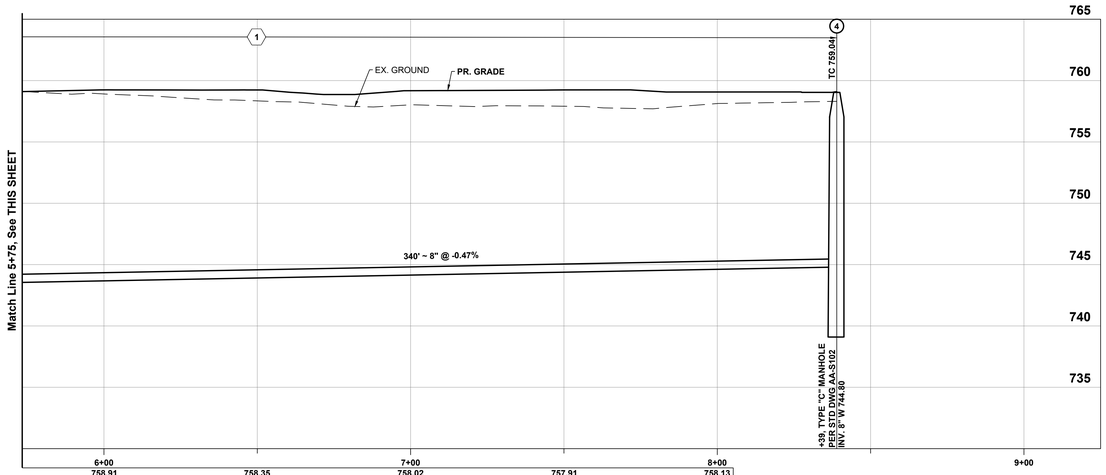


GROUND	759.76	757.95	757.59	757.31	757.20	757.12	757.67	758.43	758.19	758.64	759.23
INVERT	740.93	741.17	741.40	741.64	741.96	742.19	742.42	742.65	742.88	743.18	743.44
CUT TO INVERT	18.83	16.78	16.19	15.68	15.23	14.93	15.25	15.78	15.31	15.45	15.78

SANITARY 1-4 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



758.91	758.35	758.02	757.91	758.13
743.68	743.91	744.15	744.38	744.62
15.23	14.43	13.88	13.53	13.51

SANITARY 1-4 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:
1. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY
OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = VERT 1" =
SHEET: 24
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C307
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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REVIT VERSION: 2023
PRINT DATE: 4/23/2025 2:55 PM
FILE INFO: Autodesk Docs://04254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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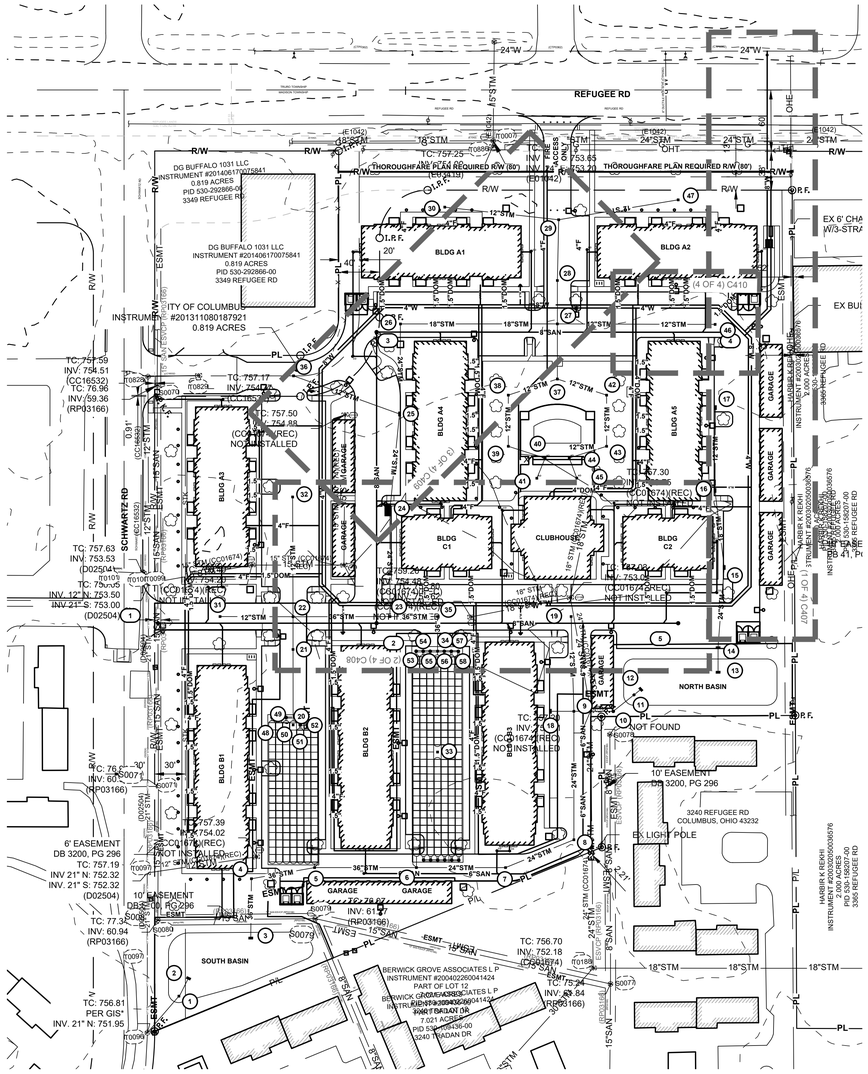

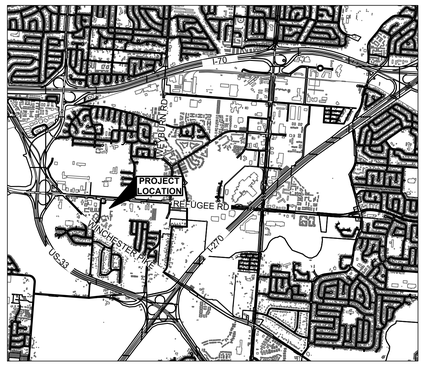

LOCATION MAP

(NOT TO SCALE)

LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

—W—	WATER LINE
—F—	FIRE PROTECTION SERVICE LINE
—SAN—	SANITARY SEWER
—G—	GAS LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
—C—	UNDERGROUND CABLE LINE
—L—	UNDERGROUND LIGHTING CIRCUIT
—STM—	STORM SEWER
—UD—	UNDERDRAIN

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
2. EXTEND UTILITIES TO WITHIN FIVE (5) FEET OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
3. REFER TO SHEETS C201-C224 FOR STORM SEWER INFORMATION.
4. MAINTAIN MINIMUM FOUR FOOT ZERO INCH (4'-0") COVER OVER ALL WATERLINES. REFER TO SHEET C401 - C410 FOR PROFILE.
5. MAINTAIN MINIMUM EIGHTEEN (18) INCH VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
6. PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE.
7. REFER TO CITY OF COLUMBUS STANDARD DRAWINGS FOR TYPICAL FIRE HYDRANT INSTALLATION DETAILS.
8. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
9. CONNECTION TO EXISTING WATER MAINS SHALL NOT BE PERFORMED UNTIL THE NEW LINES HAVE BEEN SANITIZED AND ALL TESTS HAVE BEEN COMPLETED AS SPECIFIED BY THE CITY OF COLUMBUS AND THESE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) SEVENTY-TWO (72) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN VICINITY OF THEIR UNDERGROUND LINES.
11. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
12. ALL AREAS DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL SAW CUT PAVEMENT AT LIMITS OF REMOVAL, WITH NEAT STRAIGHT LINES TO A FULL DEPTH. REMOVE CONCRETE SIDEWALK AND CURB AND GUTTER AT NEAREST JOINT. PROVIDE JOINTS BETWEEN NEW AND EXISTING ASPHALT.
13. PERFORM ALL UTILITY WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS. IN CASE OF A DISCREPANCY BETWEEN THESE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS, THE CITY OF COLUMBUS STANDARDS SHALL GOVERN.
14. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
15. ANY REQUIRED WATERLINE SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER AND/OR THE CITY.
16. SANITARY SEWER NOTE: CONNECTION TO SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM SEWER PERMIT OFFICE 111 N. FRONT STREET (614) 645-7490.

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PE SIGNATURE: DATE:

CITY OF COLUMBUS DIVISION OF WATER APPROVAL

SIGNATURE BELOW SIGNIFIES CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DATE:

CMHA REFUGEE ROAD

3340 REFUGEE ROAD

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

OVERALL UTILITY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C401

CD PROGRESS SET

KORDA
KORDA | NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 8:17 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing_R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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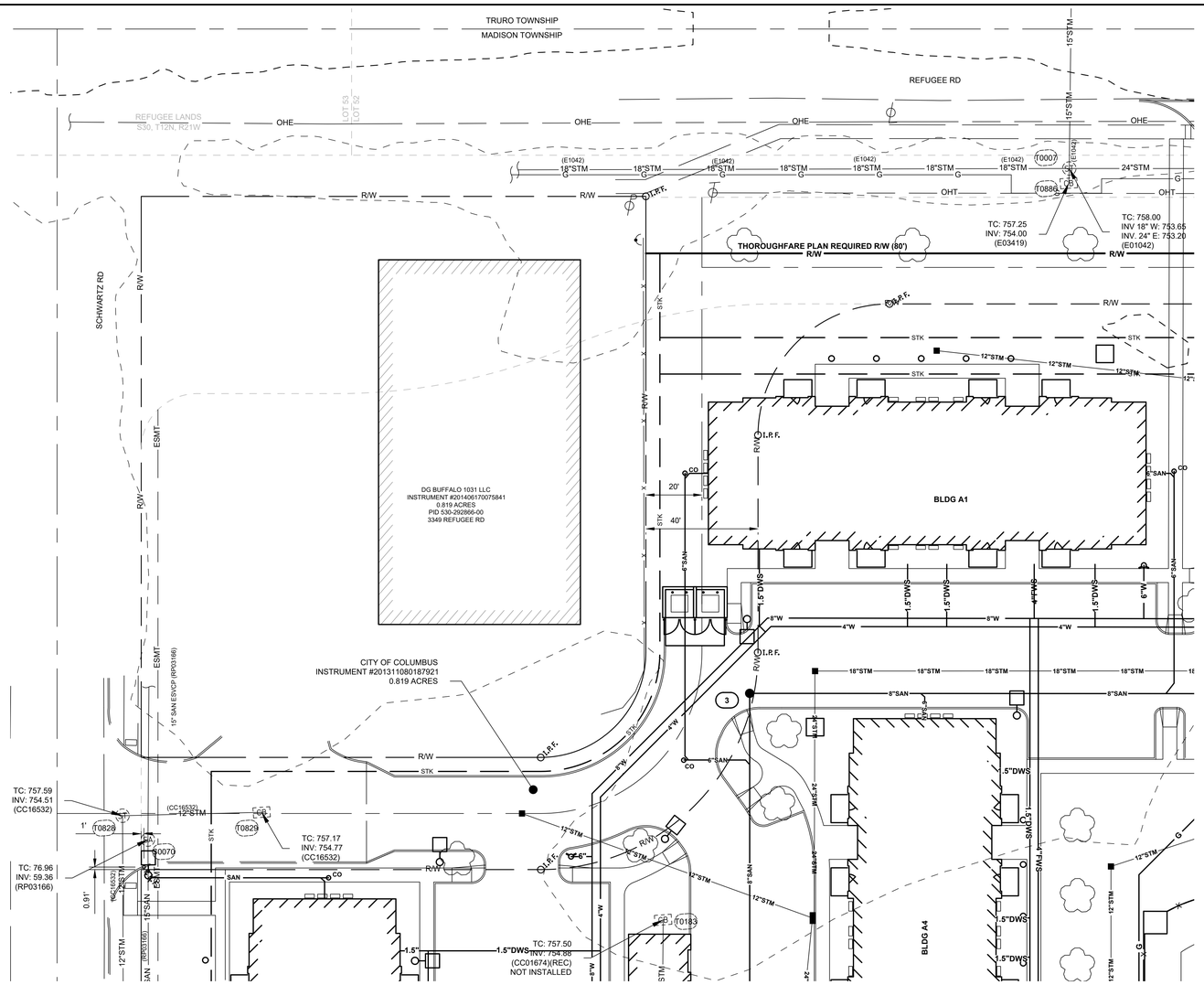

LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

W	WATER LINE
F	FIRE PROTECTION SERVICE LINE
SAN	SANITARY SEWER
G	GAS LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
L	UNDERGROUND LIGHTING CIRCUIT
STM	STORM SEWER
UD	UNDERDRAIN

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
2. EXTEND UTILITIES TO WITHIN FIVE (5) FEET OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
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4. MAINTAIN MINIMUM FOUR FOOT ZERO INCH (4'-0") COVER OVER ALL WATERLINES. REFER TO SHEET ____ FOR PROFILE.
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6. PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE.
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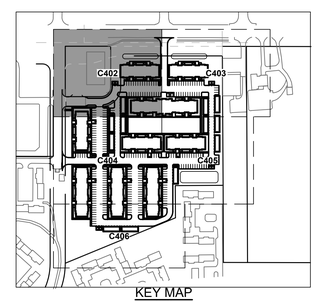

KEY MAP
NTS

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2.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD

334O REFUGEE ROAD

KORDA

KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C402

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 8:18 AM
FILE INFO: Autodesk Docs://2405-CMHA Aspire Housing_R23/2034_CMHA Aspire Housing_ARCH_R23.rvt

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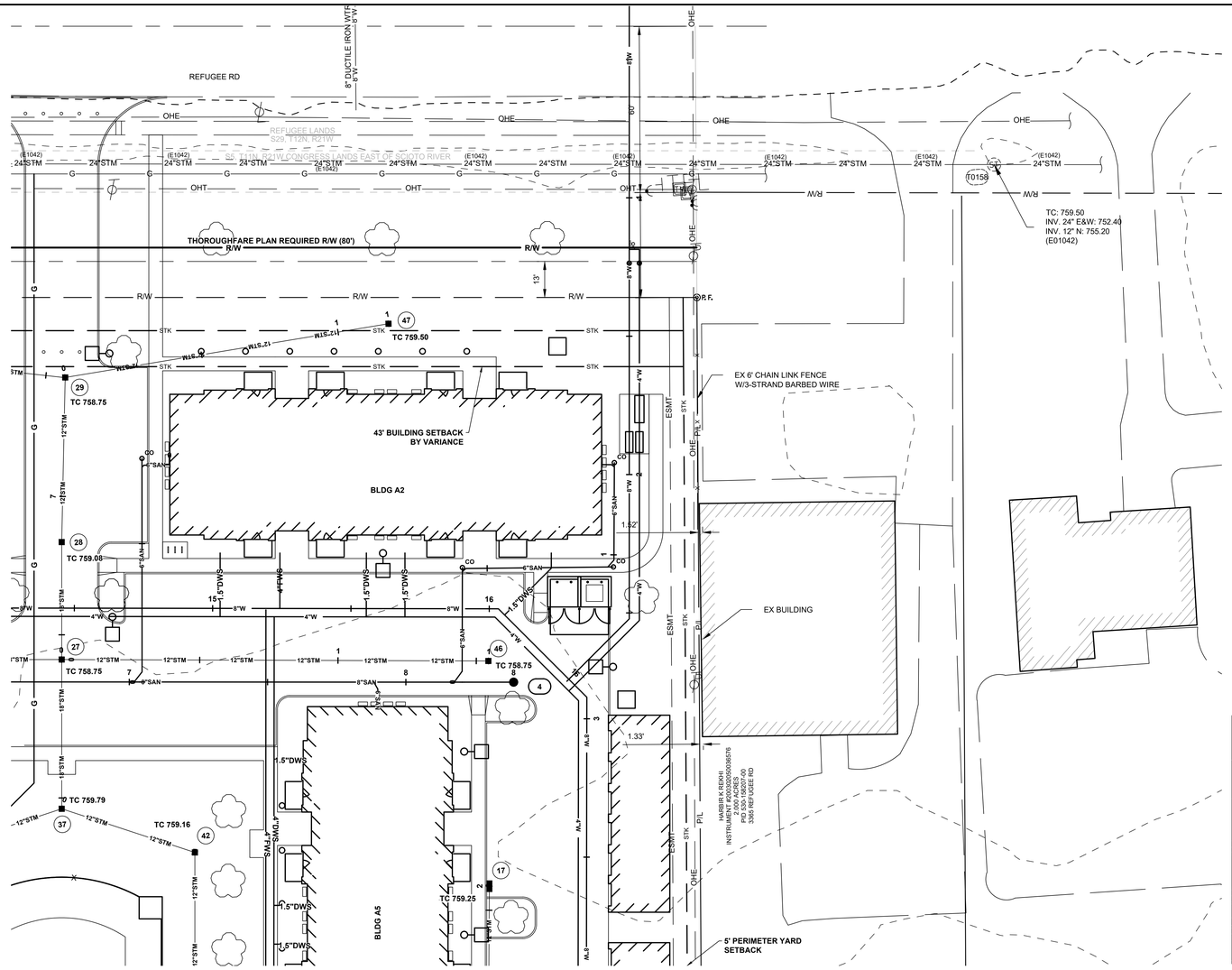

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REFER TO ORIGINAL SURVEY, SHEET TS1

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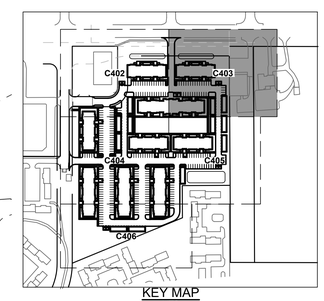

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REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD

334O REFUGEE ROAD

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C403

CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
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PROJECT NUMBER:	2022-0431

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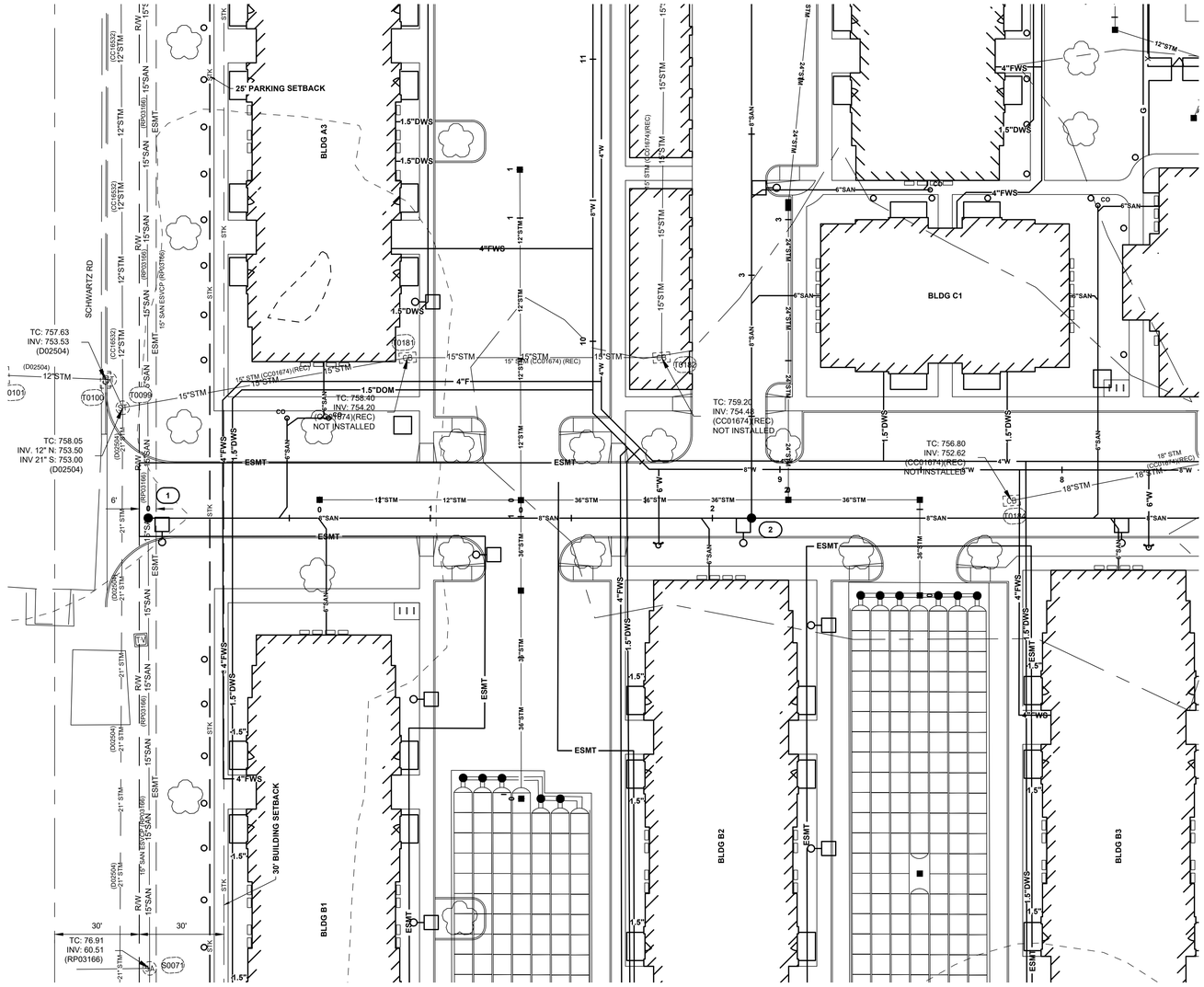

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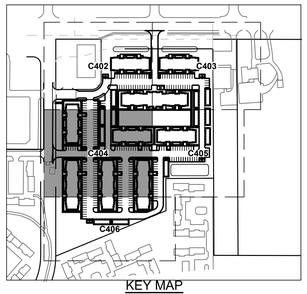

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NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-0981 - WEB www.korda.com

WATER SERVICE PLAN

CMHA REFUGEE ROAD

334O REFUGEE ROAD

#	DATE	CHANGE DESCRIPTION

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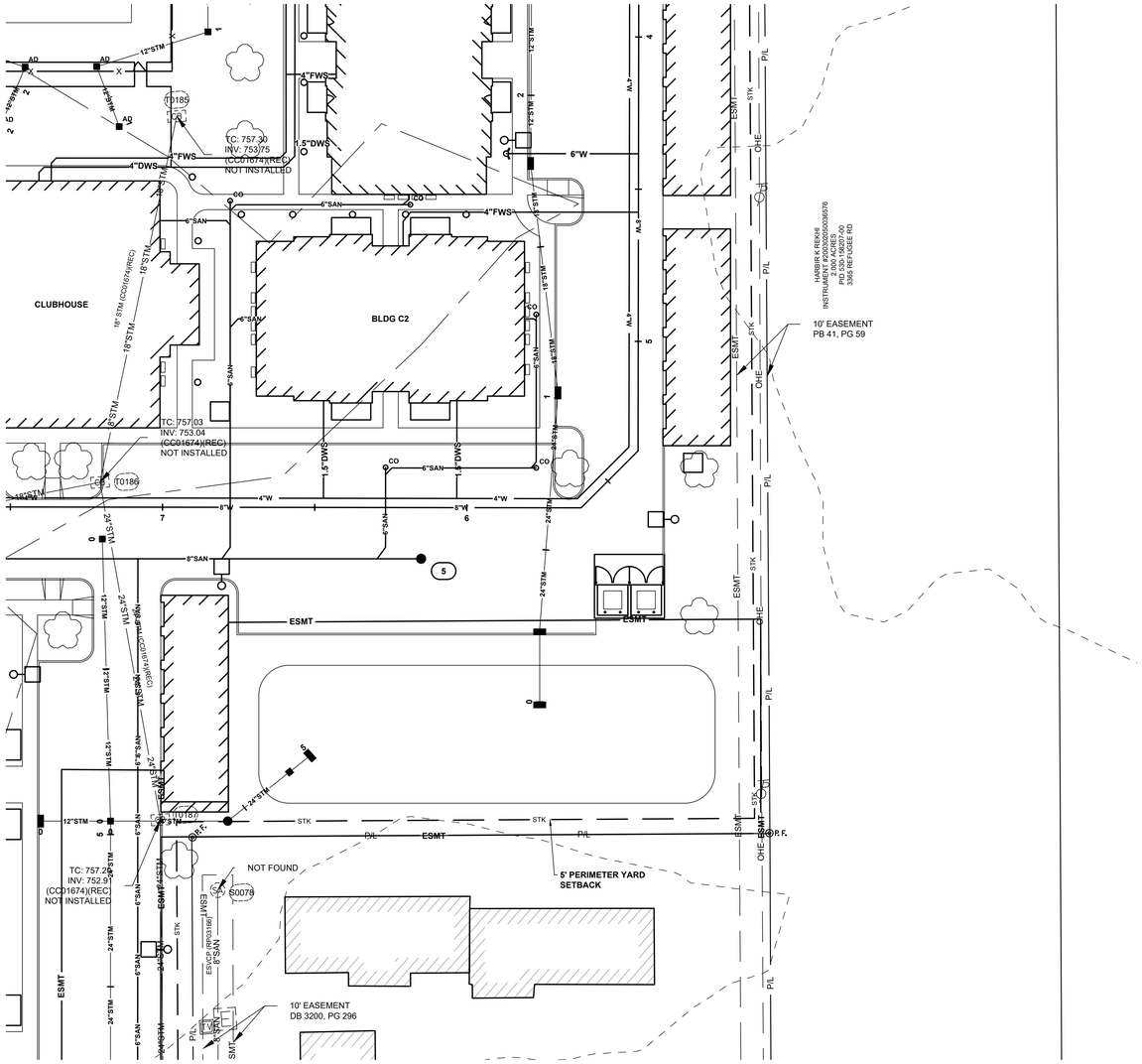

LEGEND

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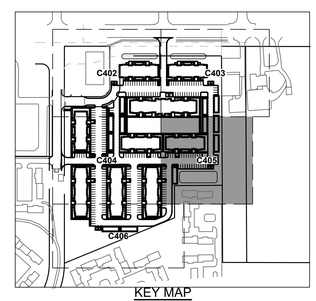

KEY MAP
NTS

CODED NOTES:

1. GAS TAP, SERVICE LINE, AND CURB BOX TO ONE FOOT ZERO INCHES (1'-0") INSIDE RIGHT-OF-WAY BY COLUMBIA GAS. SITE CONTRACTOR SHALL PROVIDE AND INSTALL GAS SERVICE LINE FROM CURB BOX TO FIVE FEET ZERO INCHES (5'-0") UPSTREAM OF METER SETTING. MECHANICAL CONTRACTOR TO INSTALL METER SETTING AND SERVICE LINE FOR FIVE FEET ZERO INCHES (5'-0") EACH SIDE OF METER SETTING. SITE CONTRACTOR TO PROVIDE AND INSTALL GAS SERVICE LINE FROM FIVE FEET ZERO INCHES (5'-0") DOWNSTREAM OF METER SETTING TO FACE OF BUILDING PER DETAIL B, THIS SHEET. PROTECT GAS METER SETTING WITH BOLLARDS ON THREE SIDES AS SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR BOLLARD DETAIL.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD

3340 REFUGEE ROAD

#	DATE	CHANGE DESCRIPTION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C405
CD PROGRESS SET

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 8:19 AM
FILE INFO: Autodesk Docs://A254 CMHA Aspire Housing_R23/A254_CMHA Aspire Housing_ARCH_R23.rvt

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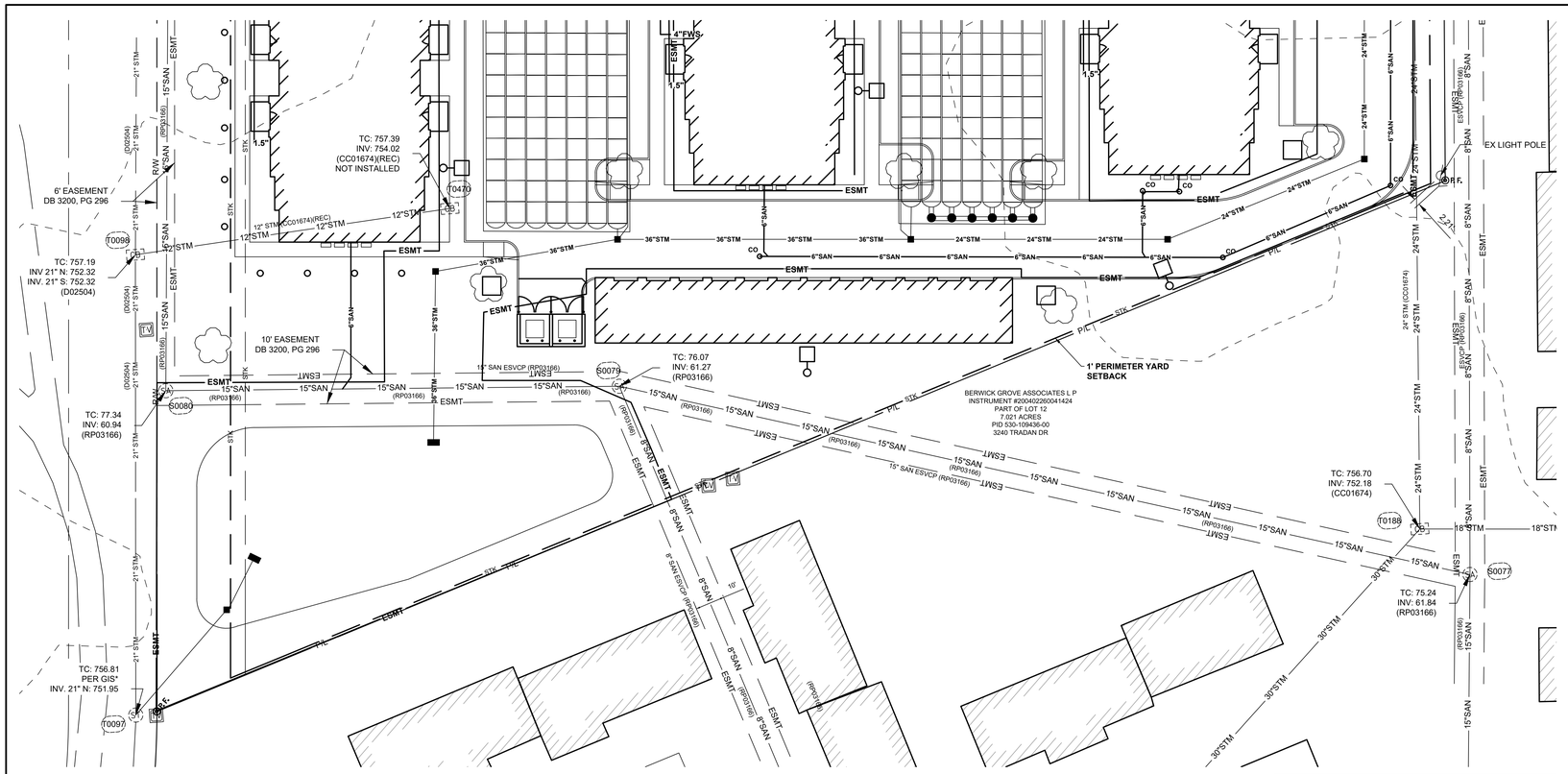

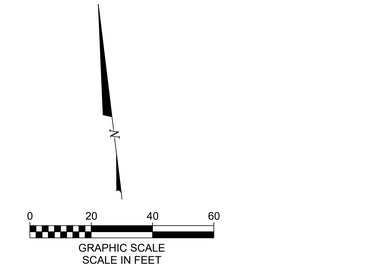

LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

—W—	WATER LINE
—F—	FIRE PROTECTION SERVICE LINE
—SAN—	SANITARY SEWER
—G—	GAS LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
—C—	UNDERGROUND CABLE LINE
—L—	UNDERGROUND LIGHTING CIRCUIT
—STM—	STORM SEWER
—UD—	UNDERDRAIN

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
2. EXTEND UTILITIES TO WITHIN FIVE (5) FEET OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
3. REFER TO SHEETS ____ FOR STORM SEWER INFORMATION.
4. MAINTAIN MINIMUM FOUR FOOT ZERO INCH (4'-0") COVER OVER ALL WATERLINES. REFER TO SHEET ____ FOR PROFILE.
5. MAINTAIN MINIMUM EIGHTEEN (18) INCH VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
6. PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE.
7. REFER TO CITY OF _____ STANDARD DRAWINGS FOR TYPICAL FIRE HYDRANT INSTALLATION DETAILS.
8. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
9. CONNECTION TO EXISTING WATER MAINS SHALL NOT BE PERFORMED UNTIL THE NEW LINES HAVE BEEN SANITIZED AND ALL TESTS HAVE BEEN COMPLETED AS SPECIFIED BY THE CITY OF _____ AND THESE CONTRACT DOCUMENTS.
10. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY _____ DATED _____. REFER TO SHEET _____.
11. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) SEVENTY-TWO (72) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN VICINITY OF THEIR UNDERGROUND LINES.
12. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
13. ALL AREAS DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL SAW CUT PAVEMENT AT LIMITS OF REMOVAL, WITH NEAT STRAIGHT LINES TO A FULL DEPTH. REMOVE CONCRETE SIDEWALK AND CURB AND GUTTER AT NEAREST JOINT. PROVIDE JOINTS BETWEEN NEW AND EXISTING ASPHALT.
14. PERFORM ALL UTILITY WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS. IN CASE OF A DISCREPANCY BETWEEN THESE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS, THE CITY OF COLUMBUS STANDARDS SHALL GOVERN.
15. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
16. ANY REQUIRED WATERLINE SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER AND/OR THE CITY.
17. SANITARY SEWER NOTE: CONNECTION TO SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM SEWER PERMIT OFFICE 111 N. FRONT STREET (614) 645-7490.

CODED NOTES:

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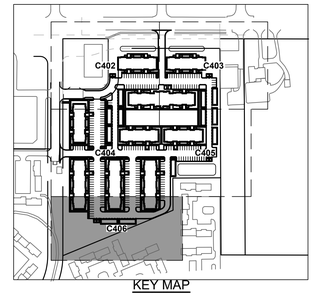

KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

PE SIGNATURE: DATE:

CITY OF COLUMBUS DIVISION OF WATER APPROVAL

SIGNATURE BELOW SIGNIFIES CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DATE:

CMHA REFUGEE ROAD

334O REFUGEE ROAD

X

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY, COMMITMENT, COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C406
CD PROGRESS SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 8:16 AM
FILE INFO: Autodesk Docs://R254-CMHA Aspire Housing/R23/R254_CMHA Aspire Housing_ARCH_R23.rvt

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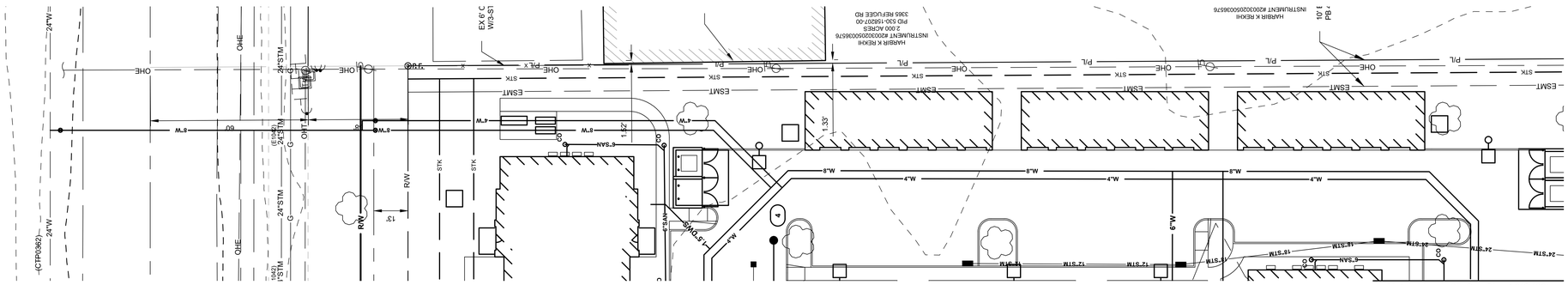

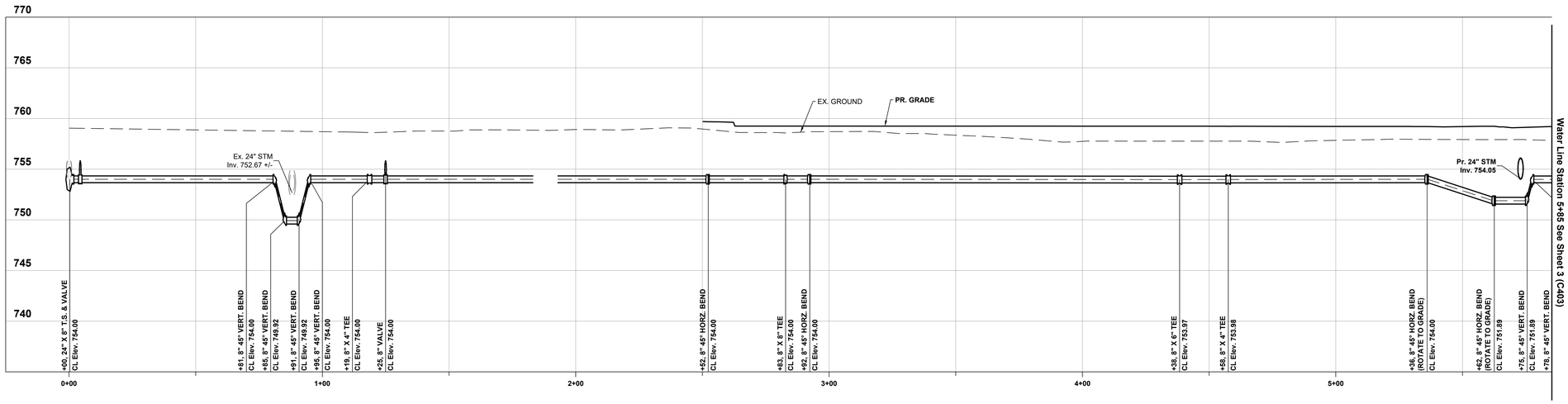

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CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN & PROFILE

CMHA REFUGEE ROAD
334O REFUGEE ROAD

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
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DRAWING TITLE:
WATER SERVICE PLAN & PROFILE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C407
CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

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FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

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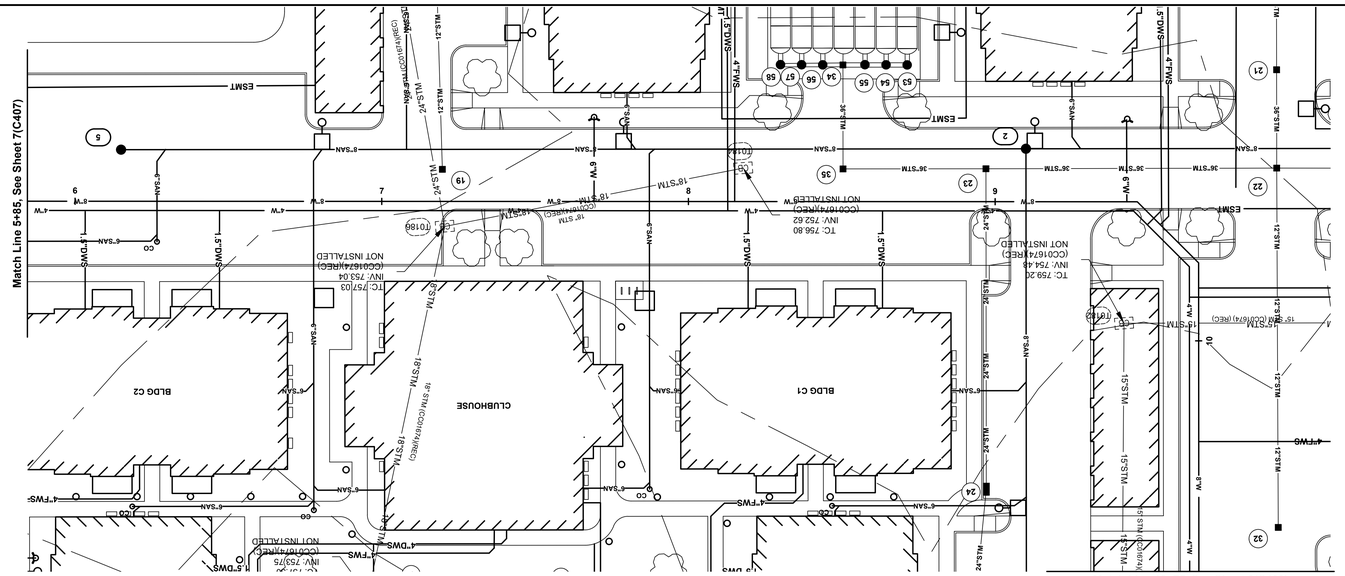

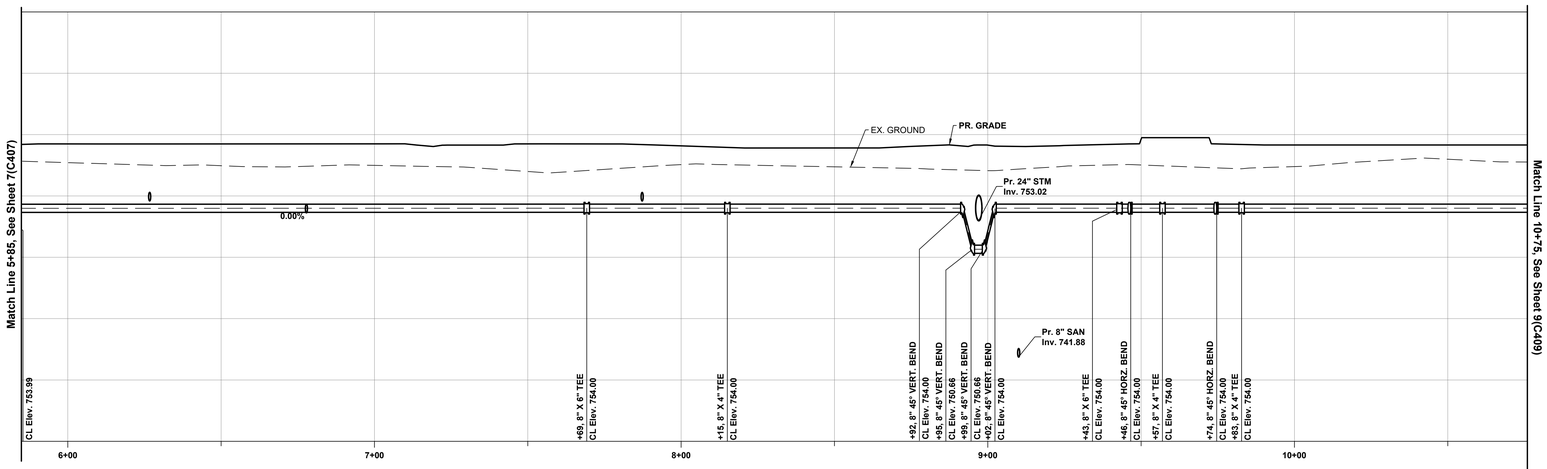

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WATER SERVICE PLAN & PROFILE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C408

CD PROGRESS SET

KORDA
KORDA: NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
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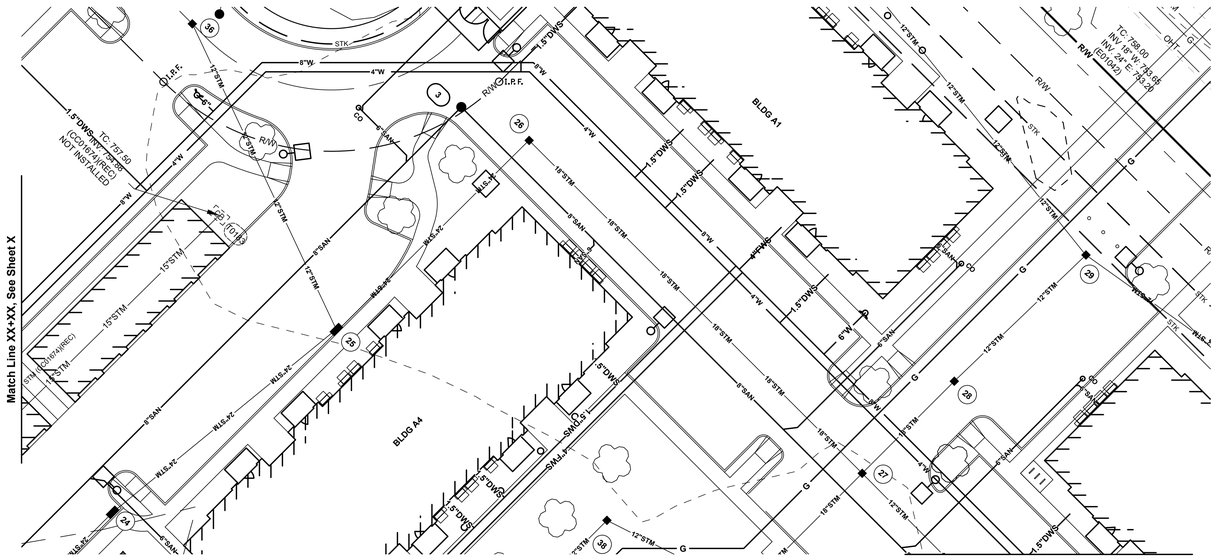

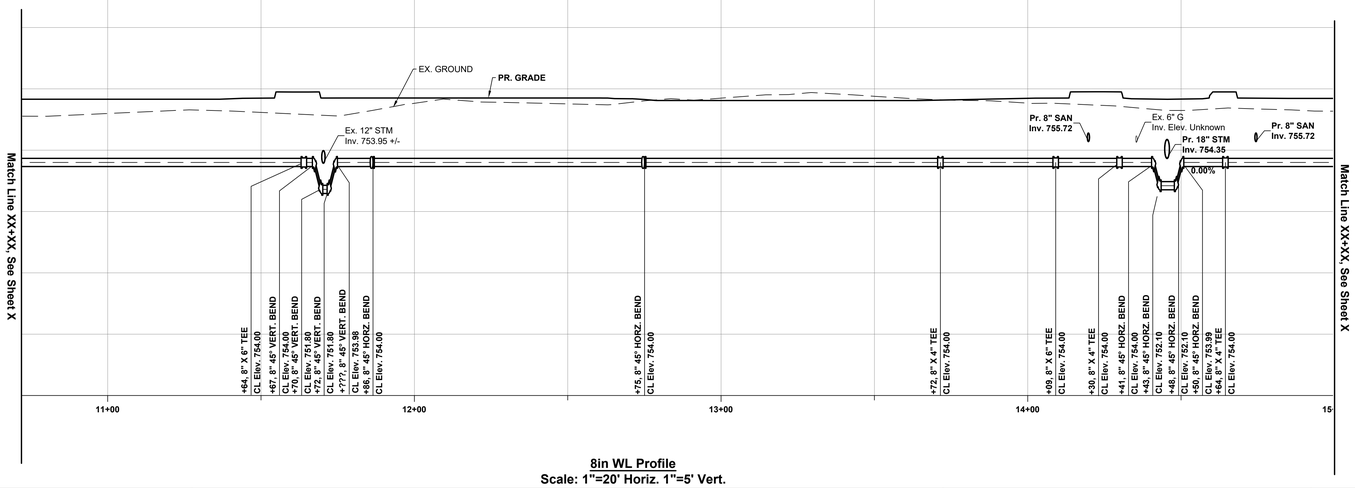

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TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

WATER SERVICE PLAN & PROFILE

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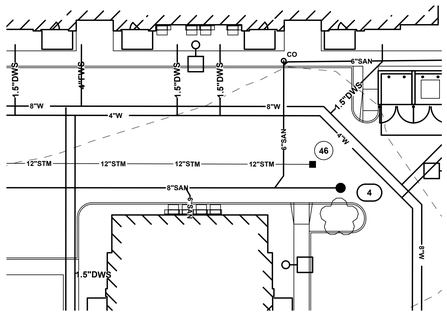

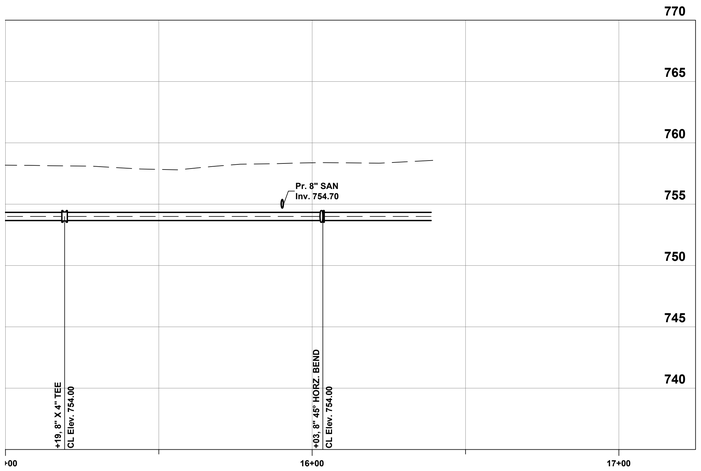

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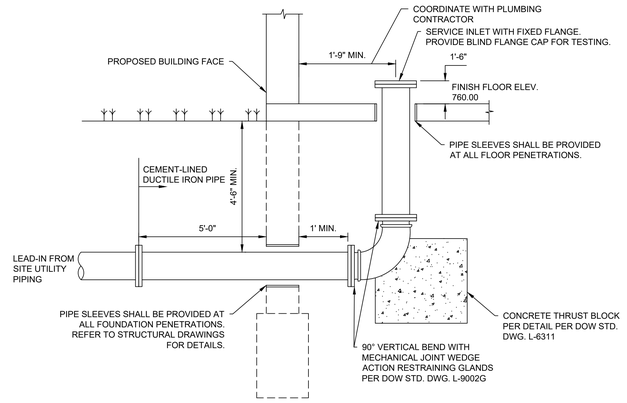
CITY OF COLUMBUS WATER SERVICE PLAN NOTES:

1. NO WATER SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY WATER TAPS UNTIL THE PUBLIC WATER MAIN HAS BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
2. NO WATER SERVICE CONSTRUCTION, BEFORE OR AFTER THE WATER METER(S), SHALL BEGIN PRIOR TO FEE PAYMENT TO THE UTILITY PERMITS OFFICE AT 111 N. FRONT STREET (614-645-7330).
3. THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2018 EDITION AND ALL REVISIONS, INCLUDING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED.
4. ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT APPROVED MATERIALS LIST AND RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER, UNLESS OTHERWISE SHOWN ON THE PLANS OR APPROVED BY THE CITY OF COLUMBUS, DIVISION OF WATER. ONLY PRODUCTS LISTED ON THE CURRENT APPROVED MATERIALS LIST WILL BE PERMITTED TO BE INSTALLED.
5. IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON THE PUBLIC WATER DISTRIBUTION SYSTEM WITHOUT FIRST SECURING A LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTIONS 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND WATER SERVICE TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO POSSESSES A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE SECTIONS 4114.119 AND 4114.529.
6. FOR ANY EMERGENCIES THAT OCCUR AFTER NORMAL WORKING HOURS INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
7. SITE UTILITY CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT PRIOR TO THE START OF ANY WATER SERVICE LINE AND/OR WATER SERVICE TAP INSTALLATION OR ANY PLACEMENT OF WATER SERVICE MATERIALS INTO THE PUBLIC RIGHT OF WAY.
8. EXISTING RIGHT OF WAY LINE(S), PROPOSED RIGHT OF WAY LINE(S) AND/OR WATER MAIN EASEMENT LINE(S) SHALL BE STAKED AT 10 FOOT INCREMENTS BY A STATE OF OHIO LICENSED SURVEYOR WHEN THE WATER SERVICE TAP(S) AND/OR WATER SERVICE(S) ARE INSTALLED AND INSPECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
9. SITE UTILITY CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF COLUMBUS--CITY FORESTER AT 614-645-6640 FOR ANY WORK DONE WITHIN 10 FEET OF A TREE IN THE RIGHT OF WAY.
10. THERE SHALL BE A 10 FOOT MINIMUM HORIZONTAL AND 18 INCH VERTICAL SEPARATION BETWEEN WATER SERVICE TAP(S), WATER SERVICE LINE(S), PRIVATE WATER SYSTEMS AND ANY SANITARY AND/OR STORM SEWER SYSTEMS, UNLESS OTHERWISE APPROVED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
11. ALL INSPECTIONS REQUIRE A 24 HOUR ADVANCE NOTICE.
12. ALL PUBLIC FIRE HYDRANTS, WHETHER NEW OR RELOCATED, SHALL BE INSPECTED AND APPROVED BY THE CITY OF COLUMBUS, DIVISION OF FIRE PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL CONTACT THE DIVISION OF FIRE AT 645-7642 EXT. 75658 TO SCHEDULE THE INSPECTION OF THE NEW OR RELOCATED FIRE HYDRANTS. THE CITY WILL PROVIDE THE CONTRACTOR "OUT OF SERVICE" RINGS THAT SHALL BE PLACED ON ALL NEW OR RELOCATED FIRE HYDRANTS TO CLEARLY IDENTIFY THEM AS INACTIVE. AFTER WRITTEN NOTIFICATION OF ACCEPTANCE HAS BEEN RECEIVED, THE CONTRACTOR SHALL REMOVE THE "OUT OF SERVICE" RINGS FROM THE FIRE HYDRANTS. ALL "OUT OF SERVICE" RINGS SHALL BE RETURNED TO THE CITY.
13. ALL PUBLIC FIRE HYDRANTS, WHETHER NEW OR RELOCATED, SHALL BE INSPECTED AND APPROVED BY THE (APPLICABLE CONTRACT COMMUNITY FIRE AGENCY) PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL CONTACT THE (APPLICABLE CONTRACT COMMUNITY FIRE AGENCY) AT 614-645-7330 TO SCHEDULE THE INSPECTION OF THE NEW OR RELOCATED FIRE HYDRANTS.
14. SITE UTILITY CONTRACTOR SHALL FLUSH ALL WATER SERVICES PRIOR TO ANY WATER METER INSTALLATION. THE CITY OF COLUMBUS IS NOT RESPONSIBLE FOR ANY CITY WATER METER DAMAGE CAUSED BY NON-FLUSHING.
15. IF A TAP IS BEING REUSED AND DISCOVERED TO BE LEAD, THE TAP SHALL BE ABANDONED AT THE WATER MAIN PER CMSC ITEM 808 AND A NEW TAP SHALL BE INSTALLED.
16. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF ALL WATER SERVICE TAP ABANDONMENTS COMPLETED AT THE WATER MAIN PER CMSC ITEM 808.
17. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF 2" AND SMALLER WATER SERVICE TAPS FROM THE WATER MAIN THRU THE CURB STOP AND WATER SERVICES FROM THE CURB STOP THRU THE WATER METER SETTING.
18. ALL 2" AND SMALLER WATER SERVICE PIPE SHALL BE TYPE K SOFT TEMPER COPPER ONLY FROM THE CITY WATER MAIN THRU THE CURB STOP PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWING L-9901 AND CMSC ITEM 805. THE PIPE MATERIAL SHALL BE TYPE K SOFT TEMPER COPPER OR A COLUMBUS DIVISION OF WATER APPROVED POLY TUBING FROM THE CURB STOP THRU THE WATER METER SETTING.
19. N/A.
20. N/A.
21. N/A.
22. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION AND HYDROSTATIC TEST OF 4" AND LARGER WATER SERVICE TAPS FROM THE WATER MAIN THRU THE CONTROL VALVE AND WATER SERVICES FROM THE CONTROL VALVE THRU THE WATER METER SETTING. HYDROSTATIC TEST SHALL BE PER CMSC ITEM 801.16 AND SHALL BE PERFORMED FROM THE WATER MAIN THRU THE WATER METER SETTING.
23. ALL 4" THRU 12" WATER SERVICE PIPE SHALL BE ONLY DUCTILE IRON FROM THE CITY WATER MAIN THRU THE CITY WATER METER SETTING(S) INCLUDING THE METER BYPASS.
24. ALL EXPOSED WATER MAIN AND ALL WATER SERVICE PIPE 4" AND LARGER SHALL BE POLYWRAPPED PER CMSC ITEM 801.03 TO A POINT 10 FOOT BEYOND THE RIGHT OF WAY VALVE(S).
25. WHEN A 4" OR LARGER TAP IS TO OCCUR ON A 20" OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT 614-645-7168, TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.
26. N/A.
27. 4" AND LARGER METER SETTING(S) SHALL BE PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-6317 A-E.
28. 2" AND LARGER METERS SHALL BE PURCHASED AT THE UTILITY PERMITS OFFICE AT 111 N. FRONT STREET AND PICKED UP AT UTILITY METERING SERVICES AT 3568 INDIANOLA AVENUE.
29. BACKFLOW PREVENTION ASSEMBLY(S) SHALL BE INSTALLED, WHERE REQUIRED, PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-9002 A THRU G. CONTRACTOR(S) SHALL CALL 614-645-6674 WITH BACKFLOW PREVENTION QUESTIONS. CONTRACTOR(S) SHALL CALL 614-645-5781 TO SCHEDULE BACKFLOW PREVENTION INSPECTION REQUESTS.
30. DOMESTIC WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE #1013 APPROVAL/STANDARD.
31. COMBINATION WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE #1013 APPROVAL/STANDARD.
32. THE FIRE WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE APPROPRIATE ASSE APPROVAL/STANDARD AND SHALL BE EQUIPPED WITH A DETECTOR METER THAT IS ITRON 100W (TOWER) OR 100R (REMOTE). MEASURES IN CUBIC FEET AND MEETS THE AWWA C-700 STANDARD. FIRE WATER BACKFLOW PREVENTER(S) SHALL BE SIZED TO MATCH THE FIRE WATER SERVICE SIZE AND EQUIPPED WITH O.S.&Y. VALVES.
33. N/A.
34. A 1" I.D. CONDUIT WITH 1 DRAWSTRING PER WATER METER SHALL BE PROVIDED BY THE BUILDING CONTRACTOR FROM THE WATER METER TO AND THRU 6" BEYOND THE FINISHED EXTERIOR WALL OF THE BUILDING AND 1' TO 5' ABOVE THE FINISHED GRADE.
35. A 1" I.D. CONDUIT WITH 1 DRAWSTRING PER WATER METER SHALL BE PROVIDED BY THE SITE UTIILITY CONTRACTOR FROM THE WATER METER VAULT TO THE HEATED ENCLOSURE. CONDUIT SHALL EXTEND 6" INTO THE METER VAULT AND BE CLEAR OF ALL ACCESS PORTALS. CONDUIT SHALL BE CORE DRILLED AND EXTEND 24" UP ABOVE THE CONCRETE SLAB FOR THE HEATED ENCLOSURE ALONG THE HEATER WALL. CONDUIT SHALL HAVE A MINIMUM BURY OF 24" FROM THE VAULT TO THE HEATED ENCLOSURE. CONDUIT SHALL BE FOR THE REMOTE WIRES ONLY. ANY OTHER WIRING SHALL HAVE A SEPARATE CONDUIT.
36. IF DOMESTIC AND/OR FIRE WATER SERVICE METER(S) AND/OR THEIR BACKFLOW PREVENTER(S) ARE TO BE LOCATED INSIDE AN ABOVE GROUND HEATED ENCLOSURE, THE ENCLOSURE SHALL BE ASSE #1060 CLASS 1 APPROVED. THE ENCLOSURE SHALL HAVE A THERMOSTATICALLY OPERATED HEATER. THE SIZE AND NUMBER OF HEATER(S) SHALL BE PER THE ENCLOSURE MANUFACTURER'S SPECS TO MAINTAIN A 40 DEGREE FAHRENHEIT INSIDE TEMPERATURE AT AN OUTSIDE TEMPERATURE OF MINUS 30 DEGREE FAHRENHEIT. HEAT TAPE/RODS WILL NOT BE PERMITTED.
37. BACKFLOW PREVENTION DEVICES MUST BE TESTED AT THE TIME OF INSTALLATION BY A TESTER APPROVED BY THE DIVISION OF WATER BACKFLOW COMPLIANCE OFFICE. A COMPLETE LIST OF APPROVED TESTERS CAN BE FOUND AT WWW.COLUMBUS.GOV/BACKFLOW/CONSUMERS. RESULTS MUST BE SUBMITTED THROUGH THE ONLINE WEB SUBMITTAL SYSTEM AT WWW.COLUMBUS.GOV/TEMPLATES/DETAIL.ASPX?ID=79397.

UNDERGROUND PRIVATE WATER SYSTEM(S) AFTER THE CITY WATER METER(S)

38. SITE UTILITY CONTRACTOR SHALL CALL THE LOCAL BUILDING AUTHORITY FOR INSPECTION OF UNDERGROUND PRIVATE DOMESTIC AND/OR FIRE WATER SYSTEM(S) AFTER THE CITY WATER METER(S). THIS WILL INCLUDE DOMESTIC WATER LOOPS AND FIRE WATER LOOPS INCLUDING PRIVATE FIRE HYDRANTS THRU THE SITE BEFORE COVERING.
39. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF FIRE AT 614-645-8673 FOR FLUSHING AND/OR PRESSURE TEST INSPECTION OF PRIVATE FIRE SYSTEM AFTER THE CITY FIRE WATER SERVICE METER AND BACKFLOW PREVENTER.
40. N/A.
41. ALL PIPE MATERIAL FOR THE UNDERGROUND PRIVATE WATER SYSTEM AFTER THE CITY WATER METER SHALL MEET THE REQUIREMENTS OF THE LOCAL BUILDING AUTHORITY HAVING JURISDICTION.



NOTES:
1. ALL WORK WITHIN BUILDING SHALL BE PER PLUMBING SPECIFICATIONS.
2. COORDINATE FOOTING LOCATIONS AND SLEEVES WITH FOUNDATION CONSTRUCTION.
3. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH PLUMBING CONTRACTOR.
4. PROVIDE CEMENT-LINED DUCTILE IRON PIPE BEGINNING 5'-0" OUTSIDE OF THE BUILDING AND CONTINUING THROUGH THE FLOOR PENETRATION. CAP WATER SERVICE ABOVE GROUND FOR FUTURE CONNECTION BY THE PLUMBING CONTRACTOR.

A **DETAIL**
WATER SERVICE TERMINATION (SLAB ON GRADE) **N.T.S.**

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

UTILITY NOTES & DETAILS

CMHA REFUGEE ROAD
334O REFUGEE ROAD

14

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
UTILITY NOTES & DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C411
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 9:05 AM
FILE PATH: Autodesk Docs://2022-0431 CMHA Aspire Housing R23/2025_CMHA Aspire Housing_ARCH_R23.rvt

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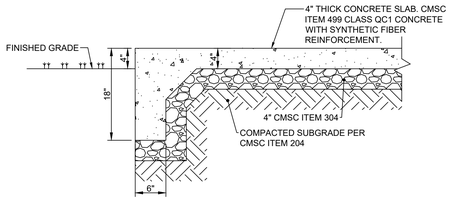


NOTES:

A. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED:
   1. NYCON NYLON FIBERS
   2. FORTA NYLO-MONO NYLON FIBERS
   3. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS
   4. GRACE POLYPROPYLENE FIBERS

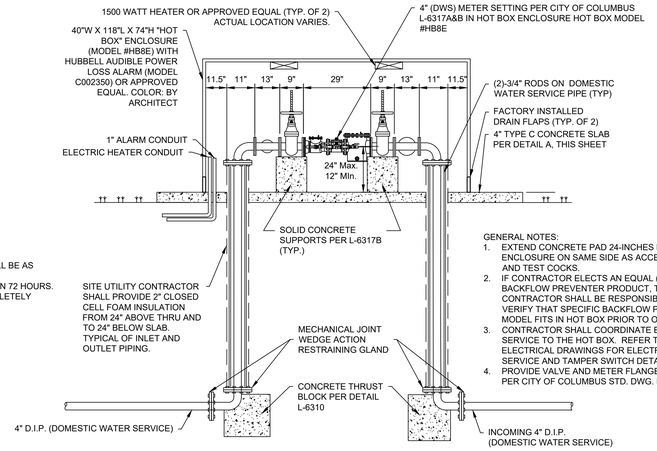
   SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.

B. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.

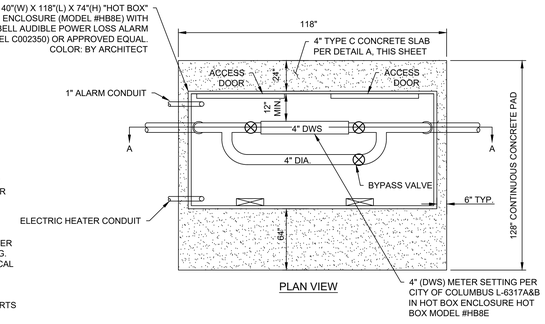
C. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
   1. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   2. PROSOCO - SALTGUARD WB
   3. HULS AMERICA INC. - CHEM-TRETE BSM 40
   4. MASTER BUILDERS INC. - MASTERSEAL SL 40
   5. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   6. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   7. TEX-COTE - RAINSTOPPER RS140

D. PROVIDE TURNDOWN ON ALL FOUR SIDES OF CONCRETE SLAB.

A DETAIL
HOTBOX ENCLOSURE CONCRETE SLAB — **N.T.S.**

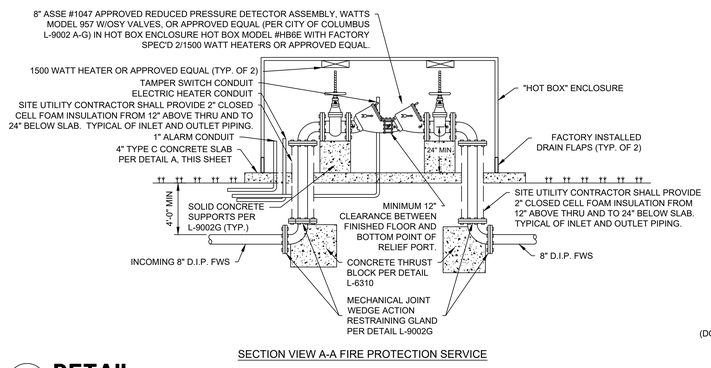


GENERAL NOTES:
1. EXTEND CONCRETE PAD 24-INCHES BEYOND ENCLOSURE ON SAME SIDE AS ACCESS DOOR AND TEST COCKS.
2. IF CONTRACTOR ELECTS AN EQUAL (RPDA) BACKFLOW PREVENTER PRODUCT, THEN CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT SPECIFIC BACKFLOW PREVENTER MODEL FITS IN HOT BOX PRIOR TO ORDERING.
3. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE TO THE HOT BOX. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICE AND TAMPER SWITCH DETAILS.
4. PROVIDE VALVE AND METER FLANGE SUPPORTS PER CITY OF COLUMBUS STD. DWG. L-6317B

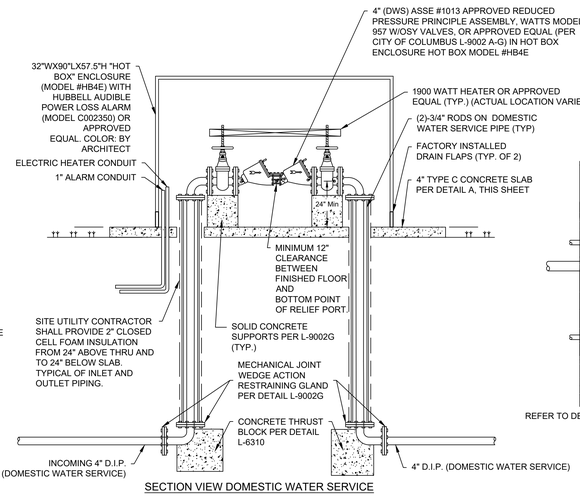


B DETAIL
HOTBOX ENCLOSURE FOR METER SETTING — **N.T.S.**

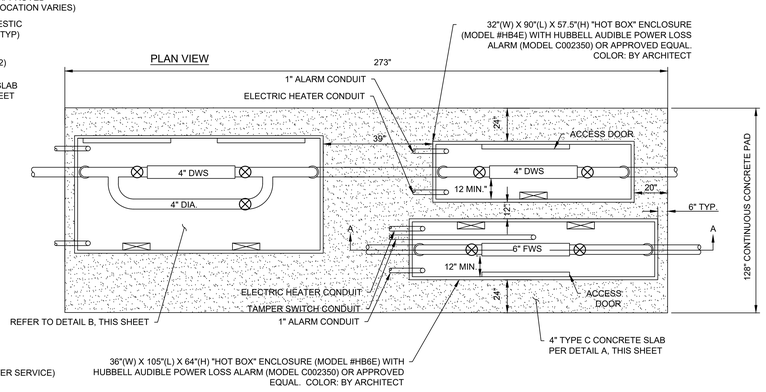
GENERAL NOTES:
1. EXTEND CONCRETE PAD 24-INCHES BEYOND ENCLOSURE ON SAME SIDE AS ACCESS DOOR AND TEST COCKS.
2. IF CONTRACTOR ELECTS AN EQUAL (RPDA) BACKFLOW PREVENTER PRODUCT, THEN CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT SPECIFIC BACKFLOW PREVENTER MODEL FITS IN HOT BOX PRIOR TO ORDERING.
3. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE TO THE HOT BOX. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICE AND TAMPER SWITCH DETAILS.
4. PROVIDE VALVE AND METER FLANGE SUPPORTS PER CITY OF COLUMBUS STD. DWG. L-9002G



SECTION VIEW A-A FIRE PROTECTION SERVICE



SECTION VIEW DOMESTIC WATER SERVICE



C DETAIL
HOTBOX ENCLOSURES FOR BACKFLOW PREVENTERS — **N.T.S.**

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

UTILITY DETAILS

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

15

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
UTILITY DETAILS

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

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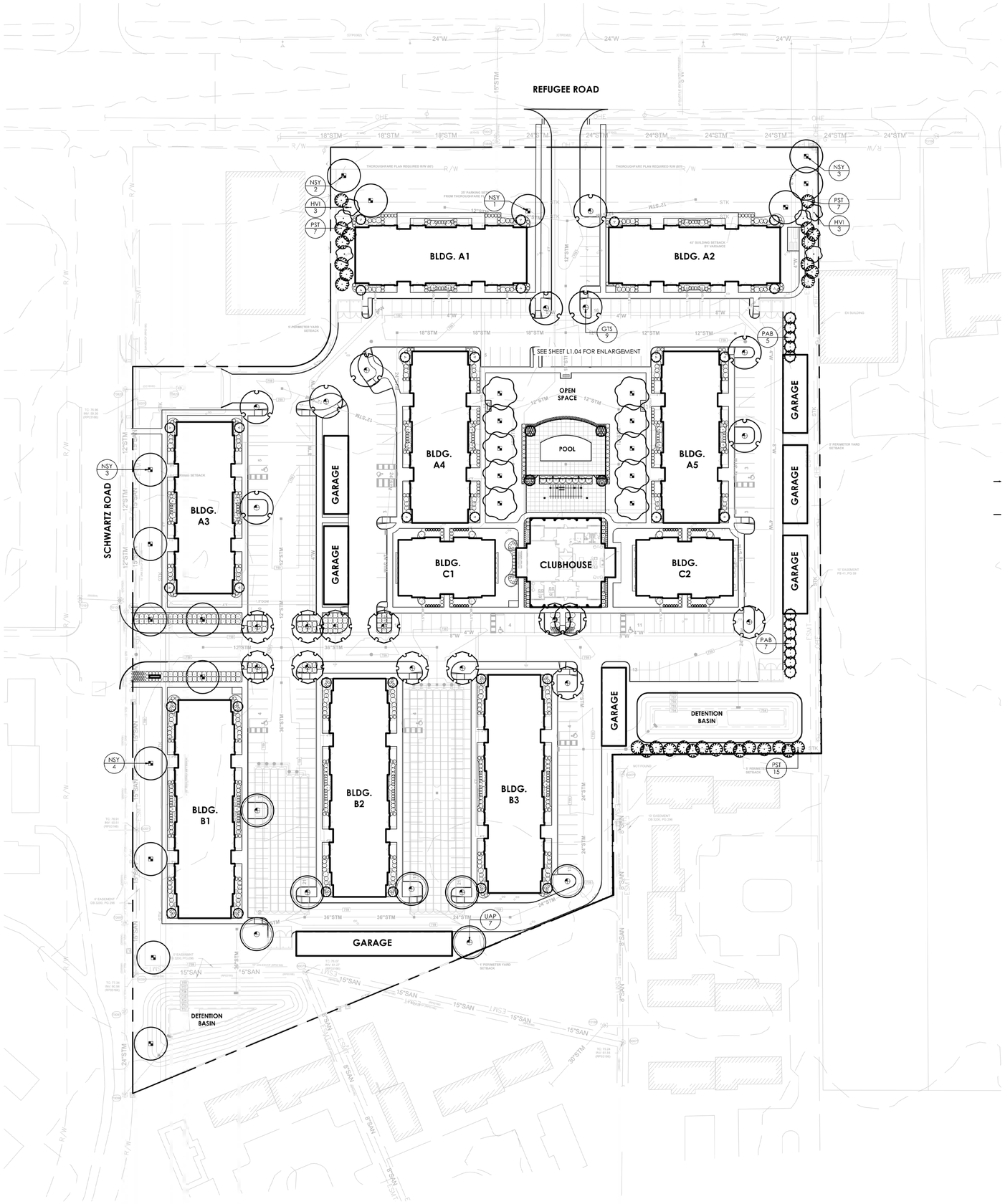


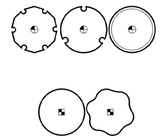
1 OVERALL LANDSCAPE PLAN

Scale: 1" = 40' - 0"

0' 20' 40' 80'

NORTH

KEY



ZONING COMPLIANCE

SECTION 3312.21 A INTERIOR LANDSCAPE
PROVIDE ONE TREE FOR EVERY TEN PARKING SPACES.
240 SURFACE SPACES - 27210 = 27.2 OR 28 TREES REQUIRED
TREES PROVIDED = 28

SECTION 3321.05 SITE TRIANGLES
AREAS INDICATED ON PLAN AND ARE UNOBSTRUCTED.

SECTION 3321.07 LANDSCAPING
ONE TREE REQUIRED FOR EVERY (10) DWELLING UNITS
220 UNITS/ 10 = 22 TREES REQUIRED
TREES PROVIDED = 25

GENERAL NOTES:

1. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
2. CONTRACTOR IS RESPONSIBLE FOR COST OF REPAIRS TO EXISTING CONDITIONS WHEN DAMAGED BY CONTRACTOR. REPAIR DAMAGES TO THE SATISFACTION OF THE OWNER.
3. ALL PLANT MASSES TO BE CONTAINED WITHIN 3" DEEP HARDWOOD BARK MULCH BED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LAWN AREAS.
5. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.
6. CONTRACTOR SHALL SEED OR SOD ALL AREAS DISTURBED DURING CONSTRUCTION, SEE PLAN.
7. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
8. ALL PLANTING OPERATIONS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.

EDGE
330 W. Spring Street, Suite 350
Columbus, OH 43215
614.486.3343
www.edgela.com

#	DATE	

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

LANDSCAPE PLAN - OVERALL SITE

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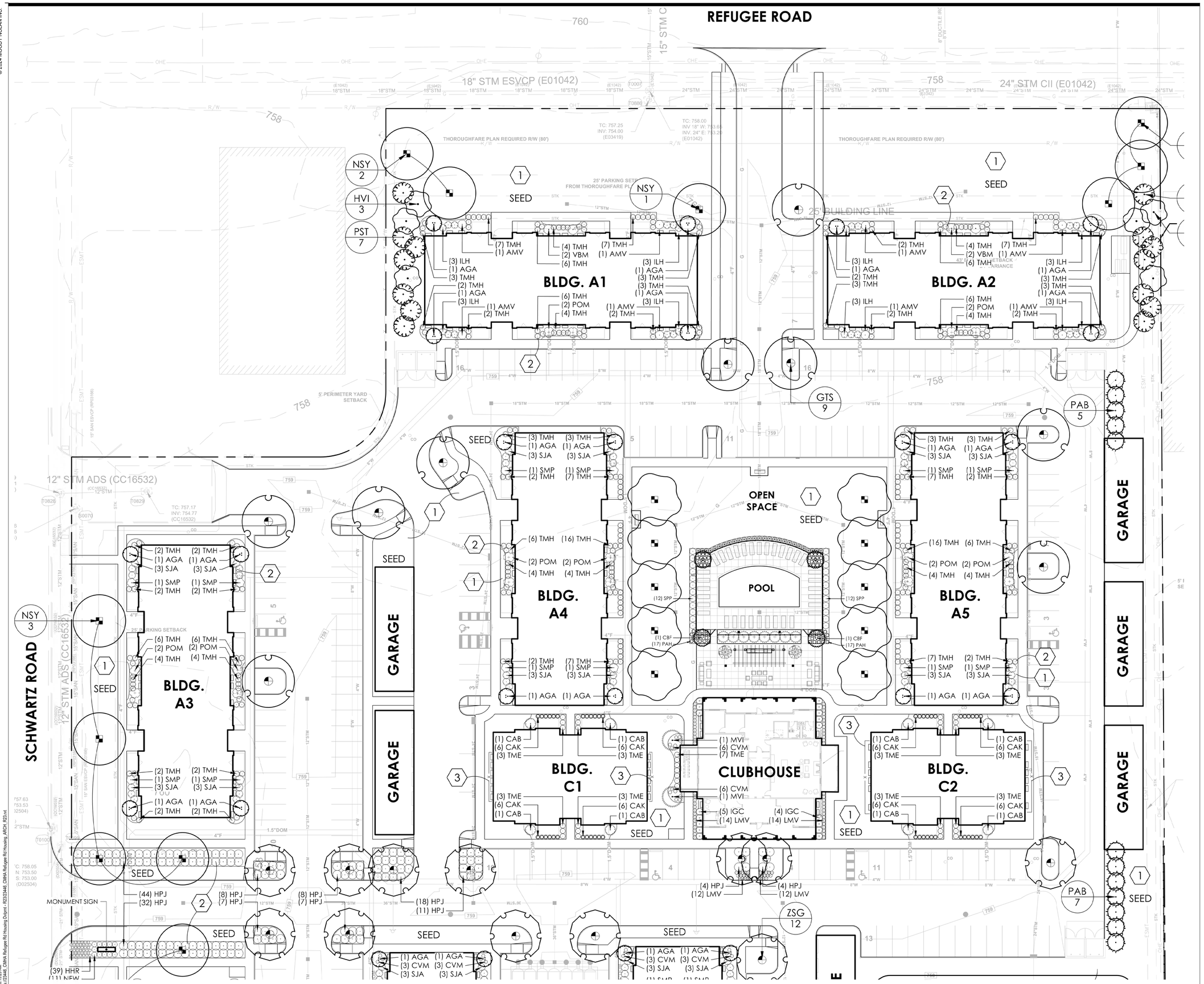

1 LANDSCAPE PLAN - NORTH

Scale: 1" = 20' - 0"

0' 10' 20' 40' NORTH

GENERAL NOTES:

1. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
2. CONTRACTOR IS RESPONSIBLE FOR COST OF REPAIRS TO EXISTING CONDITIONS WHEN DAMAGED BY CONTRACTOR. REPAIR DAMAGES TO THE SATISFACTION OF THE OWNER.
3. ALL PLANT MASSES TO BE CONTAINED WITHIN 3" DEEP HARDWOOD BARK MULCH BED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LAWN AREAS.
5. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.
6. CONTRACTOR SHALL SEED OR SOD ALL AREAS DISTURBED DURING CONSTRUCTION, SEE PLAN.
7. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
8. ALL PLANTING OPERATIONS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.

PLANTING CONSTRUCTION NOTES:

1. NEW LAWN AREA, FILL AREA WITH CLEAN FILL, AS REQUIRED TO BRING TO GRADE, PROVIDING TOPSOIL ON TOP 4" (MIN.) AND MEETING ADJACENT SURFACES FLUSH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
2. LANDSCAPE AREA, PROVIDE MINIMUM DEPTH OF 18" SOIL MIX. HOLD TOP OF SOIL DOWN 3" FROM TOP OF CURB AND/OR ADJACENT PAVEMENT TO ALLOW FOR INSTALLATION OF MULCH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
3. CEDAR SCREEN FENCE - SEE DETAIL #3/ L1.05.

EDGE
330 W. Spring Street, Suite 350
Columbus, OH 43215
614.486.3343
www.edgela.com

#	DATE

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
LANDSCAPE PLAN - NORTH

PROGRESS DRAWING NOT FOR CONSTRUCTION

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23446
L1.02
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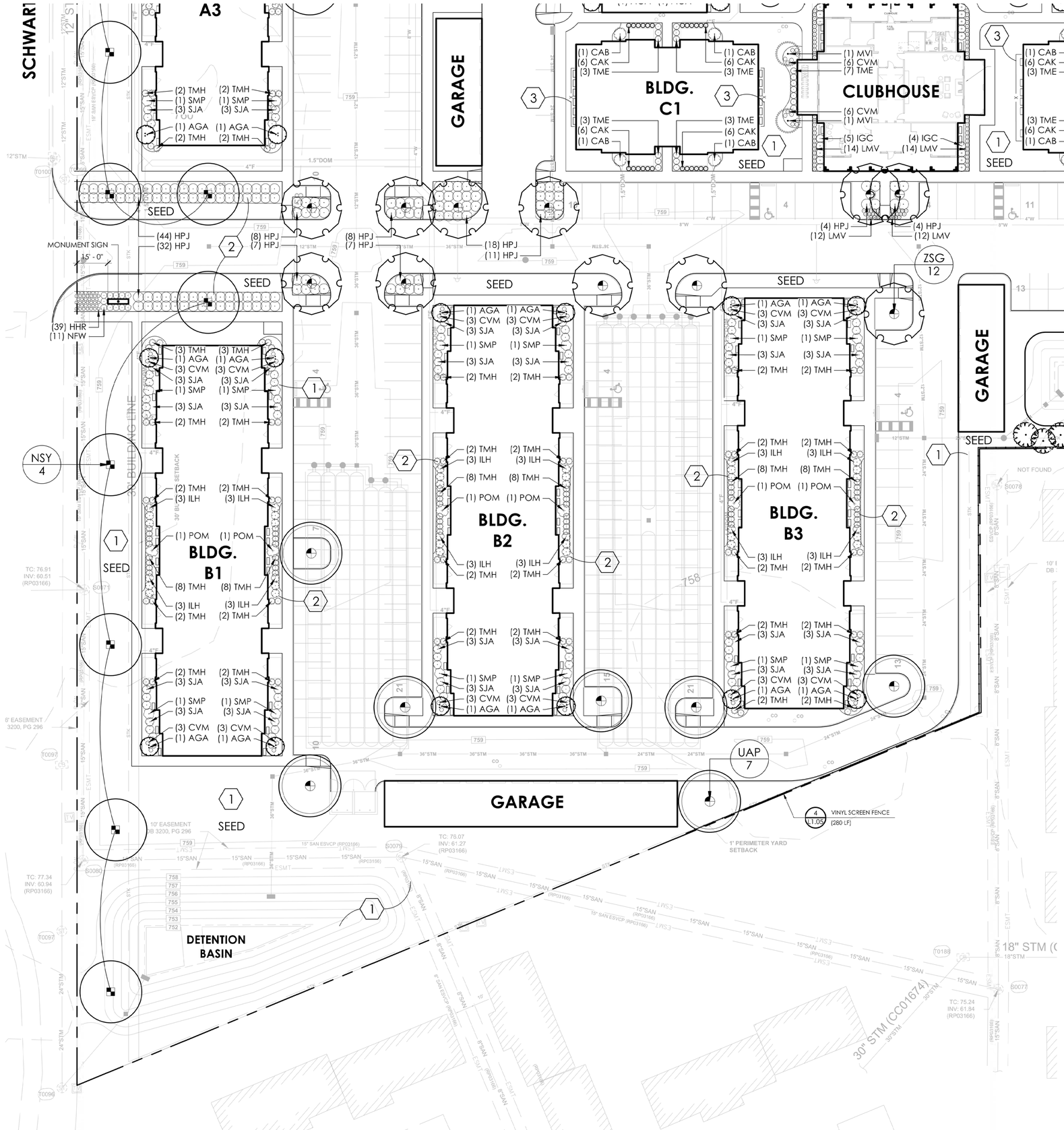

1 LANDSCAPE PLAN - SOUTH

Scale: 1" = 20' - 0"

0' 10' 20' 40'

NORTH

GENERAL NOTES:

1. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
2. CONTRACTOR IS RESPONSIBLE FOR COST OF REPAIRS TO EXISTING CONDITIONS WHEN DAMAGED BY CONTRACTOR. REPAIR DAMAGES TO THE SATISFACTION OF THE OWNER.
3. ALL PLANT MASSES TO BE CONTAINED WITHIN 3" DEEP HARDWOOD BARK MULCH BED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LAWN AREAS.
5. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.
6. CONTRACTOR SHALL SEED OR SOD ALL AREAS DISTURBED DURING CONSTRUCTION, SEE PLAN.
7. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
8. ALL PLANTING OPERATIONS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.

PLANTING CONSTRUCTION NOTES:

1. NEW LAWN AREA. FILL AREA WITH CLEAN FILL, AS REQUIRED TO BRING TO GRADE, PROVIDING TOPSOIL ON TOP 4" (MIN.) AND MEETING ADJACENT SURFACES FLUSH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
2. LANDSCAPE AREA. PROVIDE MINIMUM DEPTH OF 18" SOIL MIX. HOLD TOP OF SOIL DOWN 3" FROM TOP OF CURB AND/OR ADJACENT PAVEMENT TO ALLOW FOR INSTALLATION OF MULCH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
3. CEDAR SCREEN FENCE - SEE DETAIL #3/ L1.05.

EDGE
330 W. Spring Street, Suite 350
Columbus, OH 43215
614.486.3343
www.edgela.com

#	DATE	

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
LANDSCAPE PLAN - SOUTH

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
L1.03
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REVIT VERSION: 2023
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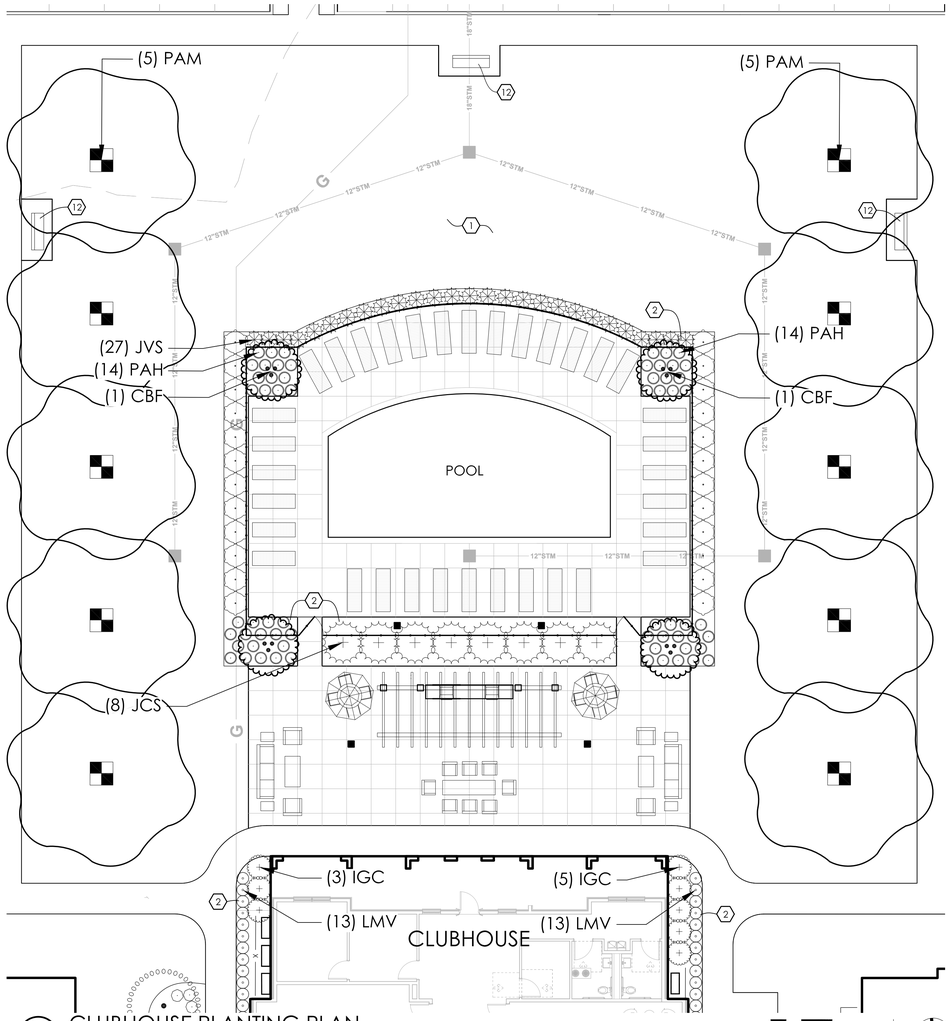


1 CLUBHOUSE PLANTING PLAN

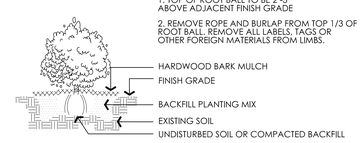
Scale: 1" = 10' - 0"

0' 5' 10' 20' NORTH

PLANTING CONSTRUCTION NOTES:

1. NEW LAWN AREA, FILL AREA WITH CLEAN FILL, AS REQUIRED TO BRING TO GRADE, PROVIDING TOPSOIL ON TOP 4" (MIN.) AND MEETING ADJACENT SURFACES FLUSH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
2. LANDSCAPE AREA, PROVIDE MINIMUM DEPTH OF 18" SOIL MIX. HOLD TOP OF SOIL DOWN 3" FROM TOP OF CURB AND/OR ADJACENT PAVEMENT TO ALLOW FOR INSTALLATION OF MULCH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.

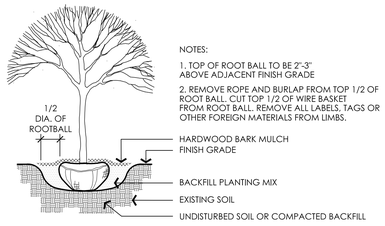
NOTES:
1. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISH GRADE
2. REMOVE ROPE AND BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE ALL LABELS, TAGS OR OTHER FOREIGN MATERIALS FROM LIMBS.



3 SHRUB PLANTING DETAIL

NTS

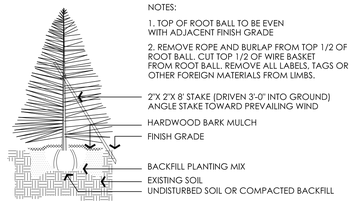
NOTES:
1. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISH GRADE
2. REMOVE ROPE AND BURLAP FROM TOP 1/2 OF ROOT BALL. CUT TOP 1/2 OF WIRE BASKET FROM ROOT BALL. REMOVE ALL LABELS, TAGS OR OTHER FOREIGN MATERIALS FROM LIMBS.



4 DECIDUOUS TREE PLANTING DETAIL

NTS

NOTES:
1. TOP OF ROOT BALL TO BE EVEN WITH ADJACENT FINISH GRADE
2. REMOVE ROPE AND BURLAP FROM TOP 1/2 OF ROOT BALL. CUT TOP 1/2 OF WIRE BASKET FROM ROOT BALL. REMOVE ALL LABELS, TAGS OR OTHER FOREIGN MATERIALS FROM LIMBS.



5 EVERGREEN TREE PLANTING DETAIL

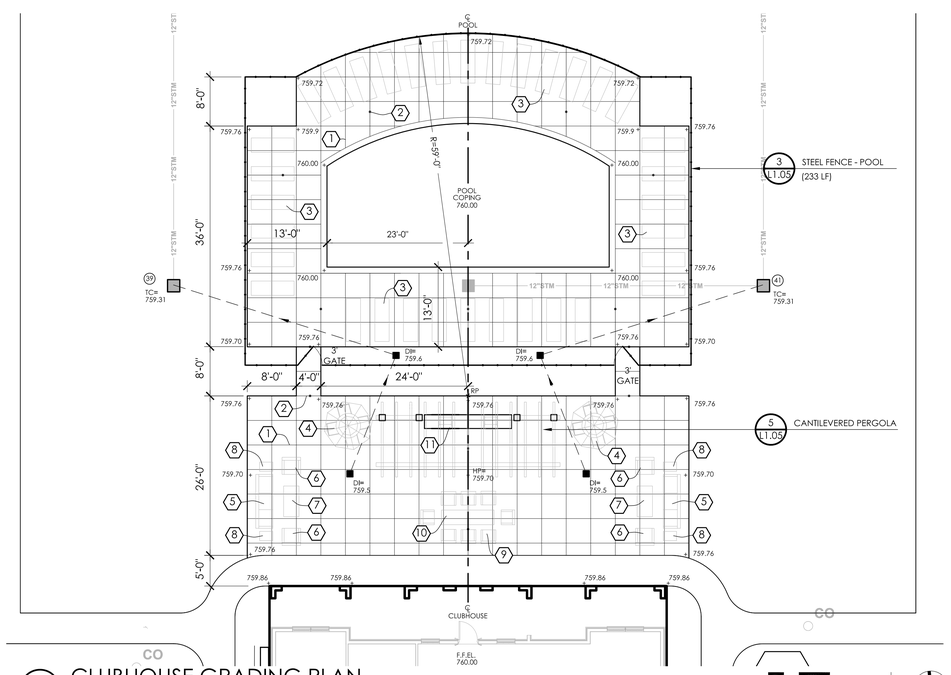
NTS

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	SPACING	REMARKS
TREES							
CBF	4	CARPINUS BETULUS 'FRANS FONTAINE'	FRANS FONTAINE HORNBEAM	2" CAL.		B&B	WELL MATCHED
GTS	9	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	SKYLINE HONEY LOCUST	2.5" CAL.		B&B	
NSY	15	NYSSA SYLVATICA	TUPELO	2.5" CAL.		B&B	
PAM	10	PLATANUS X ACERIFOLIA 'MORTON CIRCLE'	EXCLAMATION!™ LONDON PLANE TREE	2.5" CAL.		B&B	
UAP	7	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5" CAL.		B&B	
ZSG	12	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2.5" CAL.		B&B	
EVERGREEN TREES							
PAB	12	PICEA ABIES	NORWAY SPRUCE	6' - 7' HT.		B&B	
PST	29	PINUS STROBUS	WHITE PINE	6' - 7' HT.		B&B	
ORNAMENTAL TREES							
AGA	31	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	5' - 6' HT.		B&B	MUTISTEM
HVI	6	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	4' - 5' HT.		B&B	
MVI	2	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	7' - 8' HT.		B&B	
SHRUBS							
AMV	8	ARONIA MELANOCARPA 'VIKING'	VIKING BLACK CHOKEBERRY	24 - 30" HGT.	5' O.C.	CONT.	
CAB	8	CORNUS ALBA 'BAILHALO'	IVORY HALO RED TWING DOGWOOD	24 - 30" HGT.	6' O.C.	CONT.	
HPJ	143	HYDRANGEA PANICULATA 'JANE'	LITTLE LIME® PANICLE HYDRANGEA	18 - 24" HGT.	5' O.C.	CONT.	
IGC	17	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	18 - 24" HGT.	4' O.C.	CONT.	
ILH	60	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	18 - 24" HGT.	4' O.C.	CONT.	
JCS	8	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	5' HGT.	7' O.C.	B&B	
JVS	27	JUNIPERUS VIRGINIANA 'SKYROCKET'	SKYROCKET EASTERN REDCEDAR	5' - 6' HGT.	3' O.C.	B&B	
POM	22	PHYSOCARPUS OPULIFOLIUS 'MONLO'	DIABOLO NINEBARK	30" HGT.	6' O.C.	CONT.	
SJA	108	SPIRAEA JAPONICA 'ANTHONY WATERER'	ANTHONY WATERER JAPANESE SPIREA	18" HGT.	4' O.C.	CONT.	
SMP	24	SYRINGA MEYERI 'PALIBIN'	DWARF KOREAN LILAC	24 - 30" HGT.	5' O.C.	CONT.	
SPP	24	SYRINGA PUBESCENS PATULA 'MISS KIM'	MISS KIM KOREAN LILAC	24" HGT.	4' O.C.	CONT.	
TME	31	TAXUS X MEDIA 'EVERLOW'	EVERLOW ANGLO-JAPANESE YEW	18" HGT.	3' O.C.	CONT.	
TMH	343	TAXUS X MEDIA 'HICKSII'	HICKS ANGLO-JAPANESE YEW	30" HGT.	3' O.C.	CONT.	
VBM	4	VIBURNUM X BURKWOODII 'MOHAWK'	MOHAWK VIBURNUM	36" HGT.	6' O.C.	CONT.	
PERENNIALS / GRASSES / GROUNDCOVERS							
CAK	48	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	1 GAL.	2' O.C.	CONT.	
CVM	48	COREOPSIS VERTICILLATA 'MOONBEAM'	MOONBEAM TICKSEED	1 GAL.	2' O.C.	CONT.	
HHR	39	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	1.5' O.C.	CONT.	
LMV	78	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 GAL.	2' O.C.	CONT.	
NFW	11	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	1 GAL.	3' O.C.	CONT.	
PAH	62	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	1 GAL.	2' O.C.	CONT.	

GENERAL NOTES:

1. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
2. CONTRACTOR IS RESPONSIBLE FOR COST OF REPAIRS TO EXISTING CONDITIONS WHEN DAMAGED BY CONTRACTOR. REPAIR DAMAGES TO THE SATISFACTION OF THE OWNER.
3. ALL PLANT MASSES TO BE CONTAINED WITHIN 3" DEEP HARDWOOD BARK MULCH BED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LAWN AREAS.
5. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.
6. CONTRACTOR SHALL SEED OR SOD ALL AREAS DISTURBED DURING CONSTRUCTION, SEE PLAN.
7. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
8. ALL PLANTING OPERATIONS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.



2 CLUBHOUSE GRADING PLAN

Scale: 1" = 10' - 0"

0' 5' 10' 20' NORTH

CONSTRUCTION NOTES:

1. TYPICAL CONTROL JOINT
2. TYPICAL EXPANSION JOINT
3. CHASE LOUNGE CHAIRS
4. TABLES & CHAIRS WITH UMBRELLAS
5. SOFA SEATING
6. LOUNGE CHAIR SEATING
7. COFFEE TABLE
8. SIDE TABLE
9. ADIRONDACK CHAIR
10. RECTANGULAR FIRE PIT
11. GRILL ISLAND - SEE DETAIL #6/L1.05
12. 6' BACKED BENCH

LEGEND

- CONTROL JOINT
- EXPANSION JOINT
- CONCRETE PAVEMENT

NOTE:
POOL LAYOUT SHOWN FOR CONCEPTUAL PURPOSES ONLY. SEE DRAWINGS BY POOL CONSULTANT.

SITE FURNITURE SCHEDULE

DESCRIPTION	MANUFACTURER	MODEL	FINISH/ COLOR	QUANTITY
TABLES & CHAIRS	LOLL DESIGNS	FRESH AIR DINING TABLE (60 INCH) SET - TB1 DINING CHAIR (QTY: 4) - FRESH AIR ROUND TABLE: 60 INCH (QTY:1) TABLE TOP W/ UMBRELLA HOLE	CHARCOAL GREY	2 SETS
CHAISE LOUNGE CHAIRS	LOLL DESIGNS	LOLLYGAGGER CHAISE	WHITE	34
CHAISE CUSHION	LOLL DESIGNS	LOLLYGAGGER CHAISE CUSHION	CAST PETAL	34
SOFA SEATING	LOLL DESIGNS	AURORA SOFA	FRAME COLOR: CHARCOAL GREY CUSHION FABRIC COLOR: CANVAS CLOUD	2
LOUNGE CHAIR SEATING	LOLL DESIGNS	AURORA LOUNGE	FRAME COLOR: CHARCOAL GREY CUSHION FABRIC COLOR: CANVAS CLOUD	4
COFFEE TABLE	LOLL DESIGNS	LOLLYGAGGER COCKTAIL TABLE (RECTANGLE 42)	CHARCOAL GREY	2
SIDE TABLE	LOLL DESIGNS	LOLLYGAGGER OTTOMAN/ SIDE TABLE	CHARCOAL GREY	4
ADIRONDACK CHAIR	LOLL DESIGNS	ADIRONDACK CHAIR (FLAT)	CHARCOAL GREY	8
RECTANGULAR FIRE PIT	WOODLAND DIRECT	MODEL # M48201594 PROPANE, 16" HGT., MATCH LIT, BLACK FIRE GLASS	NATURAL GRAY	1
6' BACKED BENCH	DUMOR	MODEL:505-60HC 6' CAST ALUMINUM BENCH, STEEL SEAT	TEXTURED SILVER	3

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Moody Nolan
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CERT. NO: FIRM 00197475

DRAWING TITLE:
LANDSCAPE DETAILS

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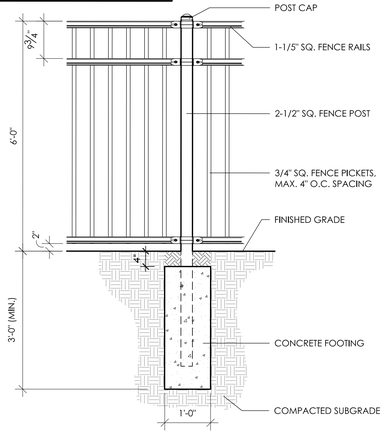
CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

NOTES:
STEEL W/ FLUSH BOTTOM PICKETED FENCE/ GATES
MANUFACTURER: AMERISTAR
MODEL: AEGIS PLUS
STYLE: MAJESTIC
FINISH: BLACK POWDERCOATED

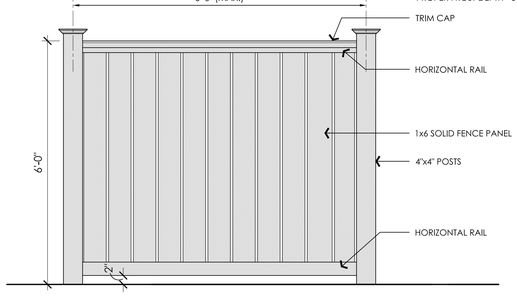


1 STEEL FENCE - POOL ONLY

SCALE = NTS

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

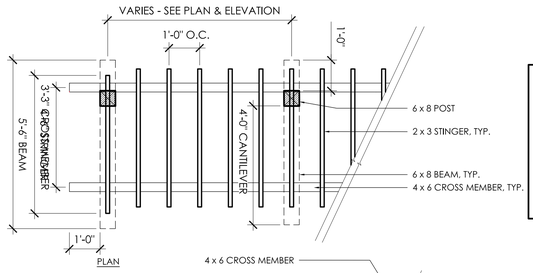
NOTE:
1. FENCE TO BE VINYL PANEL SLATS. COLOR: TBD: SUBMIT SAMPLES FOR REVIEW PRIOR TO INSTALLATION.
2. POSTS TO BE EMBEDDED IN CONCRETE FOUNDATIONS AT PROPER FROST DEPTH - 36" (MIN.)



ELEVATION

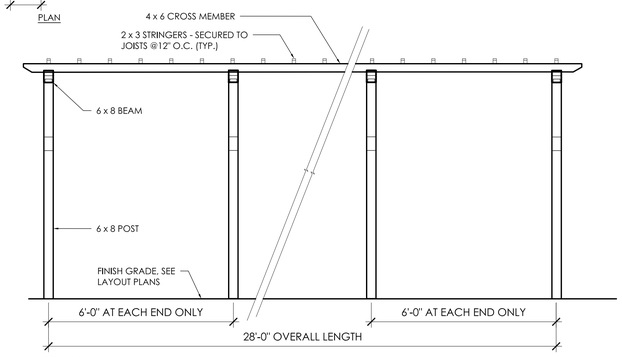
4 VINYL SCREEN FENCE

NTS

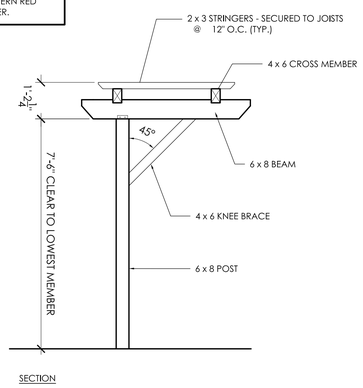


PLAN

NOTE:
1. DETAIL SHOWN IS FOR DESIGN INTENT ONLY. FURTHER COORDINATION REQUIRED WITH CLIENT.
2. DELEGATED DESIGN - CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS AND MATERIAL SAMPLES FOR ALL FINISHES AND COLORS TO OWNER AND LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
3. CONTRACTOR TO PROVIDE ENGINEERED SEALED DRAWINGS BY A PROFESSIONAL ENGINEER REGISTERED IN OHIO FOR STRUCTURE, CONNECTIONS AND FOUNDATION DESIGN OF THE PERGOLA.
4. ALL EXPOSED LUMBER TO BE SMOOTH SAWN WESTERN RED CEDAR. APPLY ONE COAT OF PENETRATING SEALER.



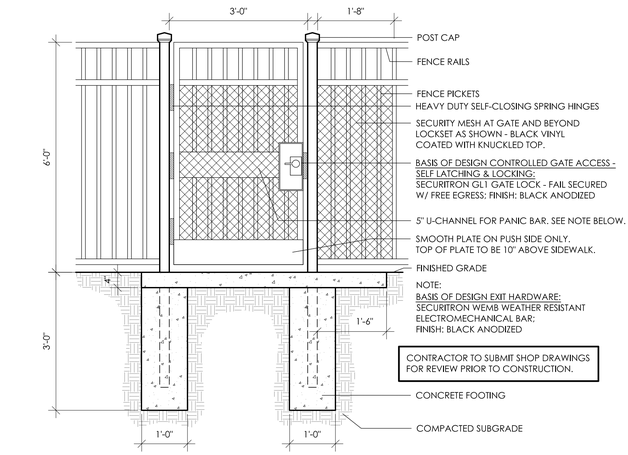
ELEVATION



SECTION

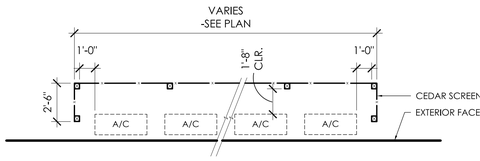
5 CANTILEVERED PERGOLA

SCALE = NTS



2 STEEL FENCE GATE - POOL ONLY

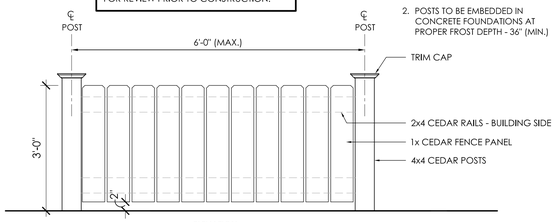
NTS



PLAN

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

NOTE:
1. FENCE TO BE 1x CEDAR PLANKS. FINISH: UNTREATED, NATURAL
2. POSTS TO BE EMBEDDED IN CONCRETE FOUNDATIONS AT PROPER FROST DEPTH - 36" (MIN.)



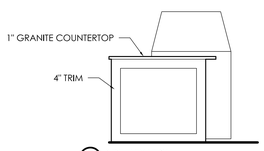
ELEVATION

3 CEDAR SCREEN FENCE

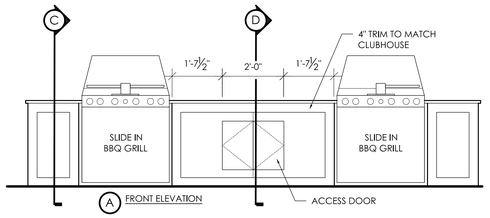
FOR SCREENING A/C CONDENSERS

NTS

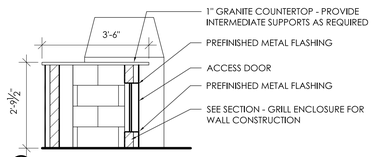
NOTE:
1. DETAIL SHOWN IS FOR DESIGN INTENT ONLY. FURTHER COORDINATION REQUIRED WITH CLIENT.
2. DELEGATED DESIGN - CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS AND MATERIAL SAMPLES FOR ALL FINISHES AND COLORS TO OWNER AND LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.



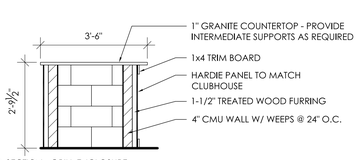
B SIDE ELEVATION



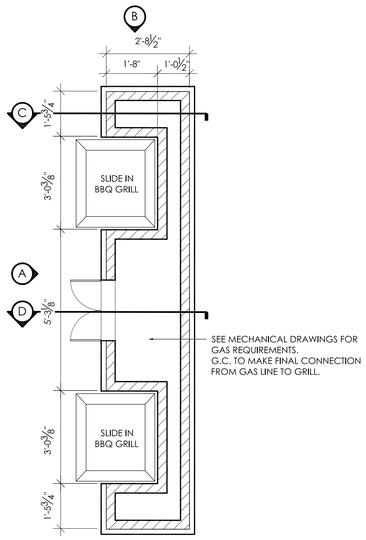
A FRONT ELEVATION



C SECTION - GRILL ENCLOSURE; ACCESS DOORS



D SECTION - GRILL ENCLOSURE



PLAN

6 GRILL ISLAND

SCALE = NTS

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GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL IS TO REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.
4. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.
6. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".
7. SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.
8. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.
9. CODE INFORMATION

- GOVERNING CODE:	2024 OHIO BUILDING CODE	
- BUILDING RISK CATEGORY:	CATEGORY II	
LOADING TYPE:	UNIFORM (PSF)	CONCENTRATED (LB)
FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WHERE APPLICABLE):		
- RESIDENTIAL		
PRIVATE ROOMS & CORRIDORS SERVING THEM:	40 PSF	--
- STAIRS & EXITS	100 PSF	300 LB
- ASSEMBLY	100 PSF	--
- PARTITION ALLOWANCE	15 PSF	--
ROOF LIVE LOADS:		
- ORDINARY FLAT, PITCHED, AND CURVED ROOFS	20 PSF	--
- FABRIC AWNINGS AND CANOPIES	5 PSF	--
ROOF RAIN LOADS	PRIMARY	SECONDARY
- RAIN INTENSITY (i)	2.8 IN/HR	1.5 IN/HR
SNOW LOADS:		
- GROUND SNOW LOAD (Pg)	20 PSF	
- FLAT ROOF SNOW LOAD (Pf)	20 PSF	
- SNOW EXPOSURE FACTOR (Ce)	1.0	
- SNOW LOAD IMPORTANCE FACTOR (Is)	1.0	
- THERMAL FACTOR (Ct)	1.0	
- SNOW DRIFTING (Pd) AND EXTENTS	INDICATED ON PLAN	
WIND LOADS:		
- BASIC WIND SPEED (V)	108 MPH	
- BASIC ALLOWABLE WIND SPEED (V asd)	85 MPH	
- SITE EXPOSURE CATEGORY	C	
- INTERNAL PRESSURE COEFFICIENT	+/- 0.18	
- COMPONENT & CLADDING LOADS	REFER TO C&C CHART PROVIDED	
SEISMIC LOADS:		
- SEISMIC IMPORTANCE FACTOR (Ie)	1.0	
- MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	0.116	
- MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.059	
- SEISMIC SITE CLASS	D	
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sds)	0.123	
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1)	0.095	
- SEISMIC DESIGN CATEGORY	B	
- RESPONSE MODIFICATION COEFFICIENT (R)	2.0	
- SEISMIC RESPONSE COEFFICIENT (Cs)	0.062	
- SEISMIC DESIGN BASE SHEAR (V)	BLDG A: 54.9 K BLDG B: 71.3 K BLDG C: 34.5 K BLDG D: 22.7 K BLDG G1: 4 K BLDG G2: 7.6 K	
- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
- BASIC SEISMIC FORCE-RESISTING SYSTEM:	LIGHT-FRAME WOOD SHEARWALLS	
SPECIAL LOADS		
- HANDRAIL LOADS (ANY DIRECTION)	50 PLF	200 LB
GEOTECHNICAL:		
- GEOTECHNICAL ENGINEER:	GEOTECHNICAL CONSULTANTS INC.	
- REFERENCE REPORT I.D. OR NUMBER:	25-G-30009	
- REFERENCE REPORT DATE:	04/22/2025	
- ALLOWABLE DESIGN BEARING PRESSURE:	3,000 PSF	
- FOUNDATION TYPE:	SHALLOW SPREAD FOOTING	

DELEGATED DESIGN ITEMS

1. PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. JEZERINAC GEERS WILL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE SHOP DRAWING REVIEW PROCESS AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE DESIGNED ITEMS. DELEGATED DESIGN ITEMS FOR THIS PROJECT INCLUDE THE FOLLOWING:
   A. DIVISION 6:
      1. PRE-ENGINEERED WOOD TRUSSES
      2. STRUCTURAL COMPOSITE i-JOIST

REINFORCED CONCRETE

1. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-20, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. MATERIALS:
   A. STRUCTURAL CONCRETE:

MIX USAGE	f'c (PSI)	MAX w/cm	EXPOSURE CLASS	AIR CONTENT
LEAN CONCRETE	1,500	---	F0	---
FOOTINGS & INTERIOR COLUMN PIERS	3,500	0.55	F1	---
INTERIOR SLABS ON GRADE	3,500	0.50	F0	---
EXTERIOR FOUNDATION STEMWALLS, EXTERIOR FOUNDATION WALLS, & EXTERIOR COLUMN PIERS	4,500	0.45	F2	5%-7%
EXTERIOR & SITE CONCRETE	5,000	0.40	F3, C2	5%-7%

   B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
   C. CEMENT: PORTLAND CEMENT, ASTM C150: TYPE I OR TYPE II; ASTM C1157: TYPE LH OR GU; OR ASTM C595: TYPE IL. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL.
   D. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE.
   E. ADMIXTURES:
      1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D.
      2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G.
   F. AIR-ENTRAINING: ASTM C260.
   G. FLY-ASH: ASTM C618, TYPE C OR F.
   H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E.
   I. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A.
   J. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 10 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR ADHESIVE.
3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15(20) IN THE FIELD OFFICE AT ALL TIMES.
4. SUBMITTALS:
   A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
   B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
   C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
   D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.
5. CONTINGENCIES:
   A. PROVIDE XXX TON OF REINFORCING BARS TO BE USED AS DIRECTED BY THE ARCHITECT/ENGINEER. COLD BEND IN THE FIELD, IF REQUIRED.
   B. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.
6. OPENINGS:
   A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
   B. PROVIDE 2 NO. 5 BARS (PER CURTAIN) AROUND ALL WALL OPENINGS, EXTENDING TWO FEET BEYOND OPENING IN EVERY DIRECTION. OPENINGS IN WALLS NOT EXCEEDING 12" x 12" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
   C. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
7. FOOTINGS, PIERS, WALLS:
   A. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING.
   B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
   C. LAP BARS AS INDICATED IN THE CONCRETE REINFORCING LAP SCHEDULE.
   D. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE.
8. SPLICES:
   A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.
9. CONSTRUCTION JOINTS:
   A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
10. FINISHES:
   A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(l)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
   B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH.
   C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
   D. EXTERIOR SLABS - BROOM FINISH.
11. CURING:
   A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
   B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
   C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.
12. FIELD QUALITY CONTROL:
   A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END.
   B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.
   C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
   D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
   E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

STRUCTURAL LUMBER

1. MATERIALS:
   A. STRUCTURAL LUMBER: ALL DESIGN VALUES PER 2018 NFPA NATIONAL DESIGN SPECIFICATION. ANY SUBSTITUTIONS ARE TO MEET MINIMUM DESIGN VALUES OF ABOVE MEMBERS. UNLESS NOTED OTHERWISE FRAMING MATERIALS SHALL BE:
      1) BEAMS, HEADERS, JOISTS, AND RAFTERS - SPRUCE-PINE-FIR NO.1/NO.2 AS GRADED BY NLGA
      2) WALL STUDS 2x4 OR 2x6 - SPRUCE-PINE-FIR NO.1/NO.2 AS GRADED BY NLGA
      3) MICRO=LAM (M=L) OR LAMINATED VENEER LUMBER (LVL): Fb = 2,600 PSI, Fv = 285 PSI, Fc (PERP.) = 750 PSI, E = 1,900 KSI.
      4) PARALLAM OR PARALLEL STRAND LUMBER (PSL)
         a. BEAMS: Fb = 2,900 PSI, Fv = 290 PSI, Fc (PERP.) = 750 PSI, E = 2,000 KSI.
         b. COLUMNS: Fb = 2,400 PSI, Fv = 190 PSI, Fc (PERP.) = 545 PSI, E = 1,800 KSI.
      5) LAMINATED STRAND LUMBER (LSL) BEAMS: Fb = 2360 PSI, Fv = 410, Fc (PERP.) = 875 PSI, E = 1,550 KSI.
      6) PREFABRICATED WOOD I-JOIST — CAPACITIES AND DESIGN PROVISIONS SHALL BE AS ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5055.
      7) ENGINEERED WOOD RIM BOARD — SHALL CONFORM TO APA PRR-410
      8) DECKING AND SHEATHING (OSB OR PLYWOOD) PER DOC PS-1 AND PS-2:
         FLOORS: 1-3/16" SAP BOARD BY RSP INDUSTRIES
         ROOFS: 19/32 (5/8" NOMINAL) APA RATED SHEATHING, 40/20, EXPOSURE 1
         WALL SHEATHING: BLDGS A-D: ZIP R-6 SHEATHING, SEE ARCH
         GARAGES: 7/16" APA RATED SHEATHING, WALL-24, EXPOSURE 1
      9) GLUE-LAMINATED BEAMS: SOUTHERN PINE, 24F-V5.
      10) SOLID WOOD DECKING: 2x6 DOUGLAS FIR/LARCH, GRADE AND DESIGN VALUES AS REQUIRED FOR SPANS. SURFACE - SMOOTH; RANDOM LENGTH; CENTER AND END MATCHED.
      11) COMPOSITE INSULATED ROOF PANELS: 7/16" OSB SKINS EACH FACE WITH EXPANDED POLYSTYRENE FOAM INSULATED CORE. CORE THICKNESS AS DEFINED ON DOCUMENTS.
   B. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY, GROUND/SOIL, OR USED IN CONDITIONS WITH MOISTURE PRESENT, IS TO BE PRESSURE-TREATED TO RESIST DECAY PER AWPA U1 AND M4. PRESERVATIVES USED FOR PRESSURE TREATMENT ARE TO BE ALKALINE COPPER QUAT, ACQ-C OR ACQ-D. OTHER PRESERVATIVES PROPOSED FOR USE ARE TO BE SUBMITTED FOR REVIEW PRIOR TO ERECTION OR INSTALLATION ON THE PROJECT.
   C. FIRE-RETARDANT-TREATED WOOD PRODUCTS — MUST CONFORM TO ASTM E84 OR UL 723. WOOD STRUCTURAL PANELS SHALL HAVE IN-SERVICE LOAD CAPACITIES IN ACCORDANCE WITH ASTM D5516. FIRE-RETARDANT-TREATED WOOD SHALL BE DRIED TO A MOISTURE CONTENT OF 19% OR LESS FOR LUMBER AND 15% OR LESS FOR WOOD STRUCTURAL PANELS BEFORE USE.
2. SPECIFICATIONS:
   A. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
      2. U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
      3. APA PS 2-18, PERFORMANCE STANDARD FOR WOOD STRUCTURAL PANELS.
      4. APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL.
3. CONNECTIONS:
   A. CONNECTIONS FOR WOOD MEMBERS SHALL BE MINIMALLY FASTENED AS PRESCRIBED IN TABLE 2304.10.2 OF THE REFERENCED BUILDING CODE UNLESS DETAILED OTHERWISE. ALL NAILS ARE TO BE COMMON WIRE NAILS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. FOUNDATION PLATES ON CONCRETE OR MASONRY WALLS SHALL BE PRESSURE TREATED LUMBER, SOUTHERN PINE #2 GRADE MINIMUM. SILLS SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH ½" DIAMETER x 12" LONG ANCHOR RODS SPACED AT 48" O.C. MAXIMUM, UNLESS NOTED OTHERWISE. THERE SHALL BE A MINIMUM OF 3 BOLTS PER SILL PIECE WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE. DO NOT PROVIDE A SILL PLATE SPLICE UNDER ANY POST OR STUD. SEE SHEARWALL SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
   C. JOISTS TO BEAMS OR JOISTS TO TRUSSES - 16 GA. STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE. BEAMS TO BEAMS - 16 GA. BEAM HANGERS, UNLESS SHOWN OTHERWISE.
   D. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   E. ALL FASTENERS INCLUDING NAILS, ANCHOR RODS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   F. ALL MECHANICAL ANCHORS INCLUDING WEDGE ANCHORS AND SLEEVE ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   G. SHEATHING TO FRAMING:
      1. FLOORS - GLUED AND NAILED WITH ADHESIVES MEETING APA SPECIFICATIONS APG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, USE 10d COMMON NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
      2. ROOFS - USE 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
      3. STUD WALLS - USE 8d COMMON OR GALVANIZED BOX NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO). SEE SHEARWALL SCHEDULES FOR ADDITIONAL FASTENING REQUIREMENTS.
      4. CFMF — USE 1-5/16" LONG #10-16 PILOT POINT SCREWS WITH WINGS.
      5. GYPSUM-SHEATHED WALLS - USE 6d COOLER OR No. 6 x 1-1/4" TYPE S OR W SCREWS AT 7" ON CENTER AT PANEL EDGES AND 7" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
   H. TRUSS TO WALL OR RAFTERS TO WALL - STANDARD HURRICANE ANCHORS AT EACH BEARING POINT. ADDITIONAL ANCHORS MAY BE REQUIRED BASED UPON FINAL LAYOUT AND DESIGN BY THE TRUSS MANUFACTURER DURING THE SHOP DRAWING PROCESS.
4. MISCELLANEOUS:
   A. PROVIDE ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8'-0" O/C MAX. FOR ALL FLOOR JOISTS. USE SOLID BLOCKING AT ALL JOIST AND RAFTER BEARINGS.
   B. PROVIDE SOLID BLOCKING AT MID-HEIGHT OF WALLS FOR EACH OF THE FOLLOWING CONDITIONS: EXTERIOR STUD WALLS, INTERIOR BEARING PARTITIONS, AND ALL WALL FRAMING WHICH IS NOT SHEATHED ON EACH SIDE WITH GYPSUM OR WOOD SHEATHING.
   C. USE SINGLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR ROUGH OPENINGS UP AND INCLUDING 4'-0", AND DOUBLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR SPANS GREATER THAN 4'-0", UNLESS SHOWN OTHERWISE.
   D. APPLY CONTINUOUS BEAD OF GLUE ON JOISTS AND GROOVE OF TONGUE-AND-GROOVE PANELS.
   E. PROVIDE TEMPORARY CONSTRUCTION EXPANSION JOINTS IN ALL WOOD STRUCTURAL PANEL FLOOR AND ROOF DIAPHRAGMS IN 80'-0" MAXIMUM INTERVALS IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION'S (APA) TECHNICAL DOCUMENT U425.
   F. BEFORE APPLYING FINISH FLOORING, SET NAILS 1/8" BUT DO NOT FILL, AND LIGHTLY SAND ANY SURFACE ROUGHNESS, PARTICULARLY AT JOINTS AND AROUND NAILS.
   G. EACH MEMBER OF MULTIPLE MEMBER BEAMS AND COLUMNS ARE TO BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS AT 6" ON CENTER, STAGGERED, THE FULL LENGTH OF THE MEMBER. FOR MULTIPLE MEMBER LVL OR LSL PRODUCTS, FOLLOW MINIMUM FASTENING REQUIREMENTS OF THE MANUFACTURER.

ENGINEERED WOOD TRUSSES

1. MATERIALS:
   A. LUMBER: AS REQUIRED BY THE TRUSS MANUFACTURE, KD 19 PERCENT MAXIMUM MOISTURE CONTENT (15 PERCENT MAXIMUM MOISTURE CONTENT FOR SOUTHERN PINE MEMBERS).
   B. CONNECTIONS: ALL INTERNAL TRUSS CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER. CONNECTORS ARE TO BE DEFORMED PLATE TYPE, OF MINIMUM 20 GAUGE GALVANIZED STEEL SHEET. ALL JOINTS ARE TO BE DESIGNED USING METHODS AS SET FORTH IN TPI STANDARDS.
   C. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   D. ALL FASTENERS INCLUDING NAILS, ANCHOR RODS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   E. SPECIFICATIONS AND REFERENCE STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION, ERECTION, HANDLING AND BRACING REQUIREMENTS ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
      2. TIMBER CONSTRUCTION STANDARDS.
      3. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES.
      4. TRUSS PLATE INSTITUTE PUBLICATION-BTW BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS EXCEPT AS NOTED BELOW.
2. DESIGN:
   A. ALL TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE FOLLOWING LOADS:

ROOFS:	
- TOP CHORD DEAD LOAD:	15 PSF
- TOP CHORD LIVE LOAD:	20 PSF
- BOTTOM CHORD DEAD LOAD:	10 PSF
- BOTTOM CHORD LIVE LOAD:	0 PSF
LIVE LOAD DEFLECTION LIMIT:	L/300
TOTAL LOAD DEFLECTION LIMIT:	L/240
FLOORS:	
- TOP CHORD DEAD LOAD:	15 PSF
- TOP CHORD LIVE LOAD:	40 PSF
- BOTTOM CHORD DEAD LOAD:	10 PSF
- BOTTOM CHORD LIVE LOAD:	0 PSF
LIVE LOAD DEFLECTION LIMIT:	L/420
TOTAL LOAD DEFLECTION LIMIT:	L/300

   ADDITIONAL DEAD LOADS:
   TRUSS DESIGNER SHALL INCLUDE ADDITIONAL WEIGHT OF DEAD LOADS APPLIED TO TRUSSES FROM OVER-FRAMED AREAS INDICATED ON PLANS. WHERE TRUSSES ARE INDICATED TO SUPPORT BRICK VENEER, LIMIT TRUSS DEFLECTION TO L/600.

   SNOW LOADS:
   IN ACCORDANCE WITH ASCE 7-16 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. SNOW LOADS ARE TO INCLUDE THE EFFECTS OF "UNBALANCED SNOW LOADS FOR HIP AND GABLE ROOFS".

   WIND LOADS:
   IN ACCORDANCE WITH ASCE 7-16 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. TRUSSES ARE TO BE DESIGNED FOR "COMPONENTS AND CLADDING" WIND LOADS UNLESS NOTED OTHERWISE.

   OTHER LATERAL LOADS:
   SEE PLANS AND DETAILS FOR DRAG STRUT LOCATIONS AND LOADING REQUIREMENTS.

   SPECIAL LOADS:
   SEE PLANS AND ELEVATIONS FOR ADDITIONAL LOADS TO BE CONSIDERED IN THE TRUSS DESIGN.
   B. WHERE TRUSSES ARE REQUIRED TO FRAME INTO OTHER TRUSSES, DESIGN OF THE CONNECTIONS ARE TO BE THE RESPONSIBILITY OF THE TRUSS SUPPLIER. THE TRUSS SUPPLIER IS TO MAKE NECESSARY PROVISIONS IN THE SUPPORTING TRUSS TO ACCEPT THE TYPE OF HANGER REQUIRED.
   C. THE DESIGN OF ALL WEB MEMBER PERMANENT BRACING REQUIRED FOR THE STRUCTURAL ADEQUACY OF THE TRUSSES, IS TO BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER.
   D. ADDITIONAL PERMANENT BRACE SIZES AND CONNECTIONS, NOT PROVIDED BY THE SHEATHING SHOWN ON THE CONSTRUCTION DRAWINGS, ARE TO BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER. THIS BRACING CAN INCLUDE, BUT IS NOT LIMITED TO, TOP CHORD BRACING FOR TRUSSES WITH PIGGY-BACKS, AND INTERMEDIATE BRACES FOR GABLE TRUSS WEB MEMBERS.
3. SUBMITTALS:
   A. TRUSS DESIGNS ARE TO BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. TRUSS SUBMITTAL IS TO INCLUDE THE FOLLOWING INFORMATION:
      1. DESIGN INFORMATION FOR EACH TYPE OF TRUSS SUPPLIED.
      2. LAYOUT DRAWING INDICATING LOCATION OF EACH SPECIFIC TRUSS TYPE AND ANY PERMANENT HORIZONTAL BRACING MEMBERS.
      3. PERMANENT MEMBER BRACE LOCATIONS, BRACE SIZES, AND CONNECTIONS.
      4. TRUSS HANGER TYPE AND LOCATION, FOR ALL TRUSSES FRAMING INTO TRUSSES.
      5. TRUSS DESIGNS AND LAYOUT DRAWING STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, IN THE STATE OF PROJECT LOCATION.
   B. SUBMITTALS WHICH DO NOT INCLUDE THE ABOVE LISTED INFORMATION WILL BE RETURNED TO THE CONTRACTOR PRIOR TO REVIEW.
   C. FINAL APPROVED SUBMITTALS SHALL BE SUBMITTED TO THE GOVERNING BUILDING DEPARTMENT FOR RECORD.
4. MISCELLANEOUS:
   A. ALL GIRDER TRUSSES ARE TO BE 2-PLY MINIMUM.
   B. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE APPROVED TRUSS SHOP DRAWINGS, ALL MEMBERS OF MULTIPLE TRUSSES ARE TO BE NAILED TOGETHER WITH 10d COMMON NAILS AT 8" O.C., FOR DOUBLE TRUSSES, OR WITH 16d COMMON NAILS AT 8" O.C. FROM EACH SIDE, FOR TRIPLE TRUSSES.

POST-INSTALLED ANCHOR SYSTEMS

1. GENERAL:
   A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
   B. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
   C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
   D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
   E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.
   F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
   G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   H. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 7 BOLT DIAMETERS. MINIMUM EMBEDMENT FOR SCREW ANCHORAGE AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 9 BOLT DIAMETERS.
2. ANCHORAGE TO CONCRETE
   A. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI OR +SD2 WEDGE EXPANSION ANCHOR
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR
      3. HILTI KWIK BOLT TZ2 EXPANSION ANCHOR
      4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
   B. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR
      2. HILTI HLC SLEEVE ANCHOR
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR
   C. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. DEWALT SCREW-BOLT+
      2. HILTI KWIK HUS-EZ SCREW ANCHOR
      3. SIMPSON TITEN HD SCREW ANCHOR
   D. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC200+ ADHESIVE FOR REINFORCING BAR
      2. DEWALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      3. DEWALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      4. HILTI HIT-HY 200v3 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS.
      5. HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      6. HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      7. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      8. SIMPSON SET-3G ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
3. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED:
   A. FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD JOINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
   B. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI, SD4/SD6 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   C. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      2. HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   D. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. DEWALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY
      3. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY
   E. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION.
      2. HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT-WYTHE MASONRY, OR BRICK WITH HOLES CONSTRUCTION.
      3. SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW CONCRETE MASONRY.

ABBREVIATIONS

AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
B/ or BO	BOTTOM OF
BFB	BOTTOM FLANGE BRACE
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
CFMF	COLD-FORMED METAL FRAMING
CFMT	COLD-FORMED METAL TRUSS
CJ	CONTROL OR CONSTRUCTION JOINT
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CY	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ENG	ENGINEER
EW	EACH WAY
EXP	EXPANSION
FDN	FOUNDATION
FIN	FINISH OR FINISHED
FLR	FLOOR
FO	FACE OF
FTG	FOOTING
FRTW	FIRE-RETARDANT TREATED WOOD
FV	FIELD VERIFY
GA	GAGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
HC	HOLLOW CORE
HORIZ	HORIZONTAL
ID	INSIDE DIMENSION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
JT	JOINT
KB	KICKER BRACE
L	ANGLE
LGMF	LIGHT GAGE METAL FRAMING
LLBB	LONG LEG BACK-TO-BACK
LLOS	LONG LEG OUTSTANDING
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPP	OPPOSITE
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENERS
PC	PRECAST
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
REINF	REINFORCING
REQ'D	REQUIRED
SCHED	SCHEDULE
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SL	SLOPED
SLBB	SHORT LEG BACK-TO-BACK
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SW	SHORT WAY
SY	SQUARE YARD
SYM	SYMMETRICAL
T/ or TO	TOP OF
T&B	TOP AND BOTTOM
TEMP	TEMPORARY OR TEMPERATURE
T&G	TONGUE AND GROOVE
TYP	TYPICAL
UN	UNLESS NOTED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

REINFORCING COVER/TOLERANCE (#3 - #11 BARS)

EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS: - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	3/4" 1-1/2"	-1/4", +3/8" -1/4", +1/2"

"-" INDICATES TOLERANCE TOWARDS MEMBER FACE.
"+" INDICATES TOLERANCE AWAY FROM MEMBER FACE.

LAP SPLICE SCHEDULE FOR MASONRY REINFORCING

f'm = 2,250 psi	BAR CENTERED IN WALL d = t/2			
	ld (in)			
BAR #	8" CMU	10" CMU	12" CMU	14" CMU
#3	1'-0"	1'-0"	1'-0"	1'-0"
#4	1'-1"	1'-0"	1'-0"	1'-0"
#5	1'-7"	1'-3"	1'-0"	1'-0"
#6	2'-11"	2'-4"	1'-11"	1'-7"
#7	4'-1"	3'-2"	2'-7"	2'-2"
#8	6'-3"	4'-10"	3'-11"	3'-4"
#9	-	6'-2"	5'-0"	4'-3"

1. " * " INDICATES LAP LENGTH GREATER THAN MAXIMUM ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.
2. APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL.
3. APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS

BAR SIZE	3/4" CLR. (TOP BARS / OTHER BARS)	1 1/2" CLR. AND GREATER (TOP BARS / OTHER BARS)
#4	3'-1" / 2'-4"	3'-1" / 2'-4"
#5	3'-10" / 3'-0"	3'-10" / 3'-0"
#6	4'-8" / 3'-7"	4'-8" / 3'-7"
#7	7'-6" / 5'-9"	6'-9" / 5'-2"
#8	9'-3" / 7'-1"	7'-9" / 5'-11"
#9	11'-2" / 8'-7"	8'-8" / 6'-8"
#10	13'-6" / 10'-4"	9'-10" / 7'-6"
#11	15'-10" / 12'-2"	10'-11" / 8'-4"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS

BAR SIZE	3/4" CLR. (TOP BARS / OTHER BARS)	1 1/2" CLR. AND GREATER (TOP BARS / OTHER BARS)
#4	2'-8" / 2'-1"	2'-8" / 2'-1"
#5	3'-4" / 2'-7"	3'-4" / 2'-7"
#6	4'-0" / 3'-1"	4'-0" / 3'-1"
#7	6'-6" / 5'-0"	5'-10" / 4'-6"
#8	8'-0" / 6'-2"	6'-8" / 5'-2"
#9	9'-8" / 7'-6"	7'-6" / 5'-10"
#10	11'-8" / 9'-0"	8'-6" / 6'-6"
#11	13'-8" / 10'-6"	9'-5" / 7'-3"

1. TOP BARS / OTHER BARS — TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE.
3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.
4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

EXTERIOR INSULATED SHEATHING ATTACHMENT SCHEDULE

	8d COMMON NAIL SPACING [5]			
	16" O.C. STUD SPACING		24" O.C. STUD SPACING	
TOTAL SHEATHING THICKNESS [1] / EXTERIOR FINISHES [2]	1"	1-1/2"	1"	1-1/2"
ADHERED STONE VENEER (25PSF)	6"/6"	6"/4"	4"/4"	N/A
CEMENT/COMPOSITE SIDING (15PSF)	6"/12"	6"/8"	6"/8"	4"/4"
VINYL/WOOD [4] SIDING (5PSF)	6"/12"	6"/12"	6"/12"	6"/12"

NOTES:
1. TOTAL SHEATHING THICKNESS IS THE THICKNESS OF THE FOAM AND WOOD COMBINED.
2. EXTERIOR FINISH EXAMPLES SHOWN, TOTAL FINISHES NOT TO EXCEED WEIGHT SHOWN.
3. NAILS TO BE MINIMUM .131"Ø WITH 1-1/4" PENETRATION INTO STUDS
4. 0.113"Ø NAILS WITH 1-1/4" PENETRATION ALLOWED AT CONTRACTOR'S OPTION FOR EXTERIOR FINISHES LESS THAN 5 PSF.
5. NAIL SPACING AS INDICATED AS EDGE/FIELD SPACINGS.
6. N/A = NOT ALLOWED

#	DATE	CHANGE DESCRIPTION

Jezerinac Geers Structural Engineering

PROJECT NUMBER:	24.35.061
DESIGNED BY:	JGA
DRAWN BY:	CLS
CHECKED BY:	RLJ
DOCUMENT STATUS:	■ PROGRESS ☐ PERMIT ☐ BIDDING ☐ CONSTRUCTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

GENERAL STRUCTURE INFORMATION

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
S001
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:28 AM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/24.35.061 - CMHA Refugee Rd Apts - Struct (R23).rvt

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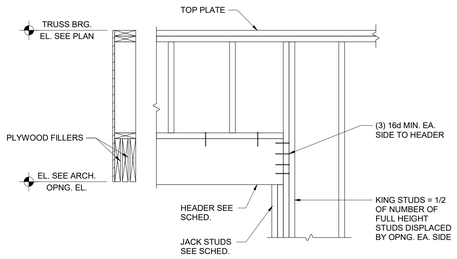
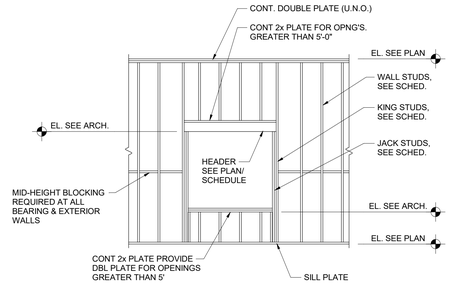


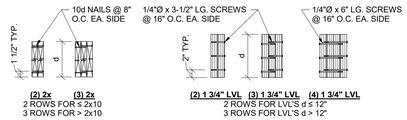
TYPICAL WOOD HEADER CONSTRUCTION

DETAIL 1
3/4" = 1'-0"



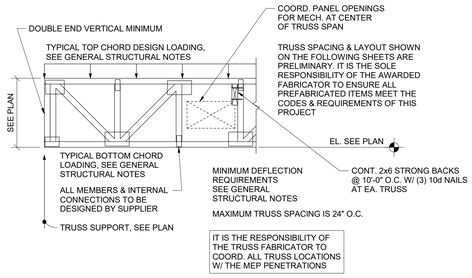
TYPICAL WALL AND OPENING CONSTRUCTION

DETAIL 2
3/4" = 1'-0"



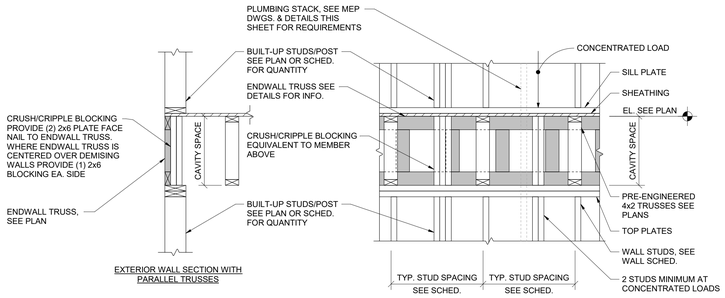
TYPICAL MULTIPLE WOOD MEMBER CONNECTION REQUIREMENTS

DETAIL 3
3/4" = 1'-0"



TYPICAL PRE-ENGINEERED 4x2 FLOOR TRUSS REQUIREMENTS

DETAIL 4
3/4" = 1'-0"



NOTES:

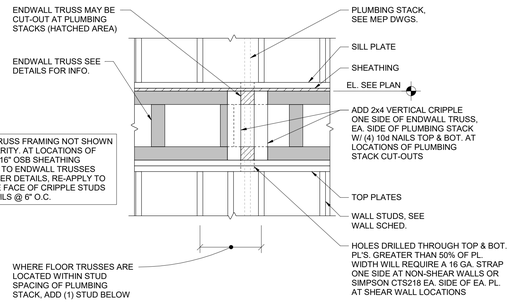
1) ALL CONCENTRATED LOADS FROM COLUMNS/POSTS TO HAVE CONTINUOUS LOAD PATH TO FOUNDATION. PROVIDE CRUSH/CRIPPLE BLOCKING WITHIN FLOOR CAVITY SPACES EQUIVALENT TO MEMBER SIZE ABOVE

2) ALL CONCENTRATED LOADS ON WALL TO HAVE A MINIMUM OF 2-2x BUILT-UP STUD POST AT SUPPORTS UNLESS NOTED OTHERWISE ON PLAN

3) ENDWALL TRUSS TO HAVE A MINIMUM 2x4 TOP & BOTTOM CHORD AND 2x4 VERTICALS @ 16" O.C. WHEN CARRYING 3 STORIES OR LESS AND 2x4 VERTICALS @ 12" O.C. WHEN CARRYING 4 STORIES OR MORE

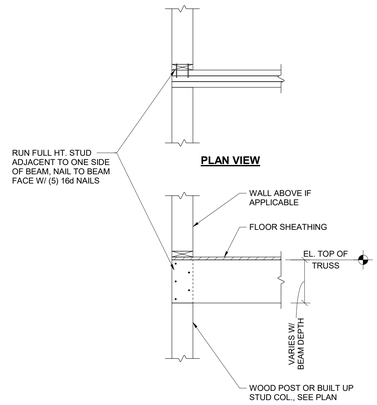
TYPICAL CRIPPLE BLOCKING REQUIRMENTS

DETAIL 5
3/4" = 1'-0"



DETAIL AT PLUMBING STACK

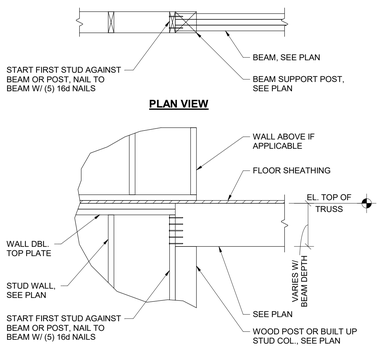
DETAIL 6
3/4" = 1'-0"



PLAN VIEW

TYPICAL BEAM BEARING ON PERPENDICULAR WALL

DETAIL 7
3/4" = 1'-0"

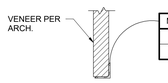


PLAN VIEW

TYPICAL BEAM BEARING ON END OF PARALLEL WALL

DETAIL 8
3/4" = 1'-0"

VENEER LINTELS



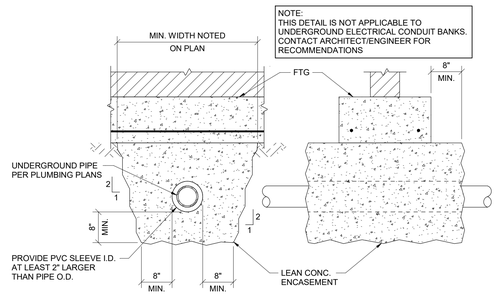
MARK	SIZE	MAX. SPAN (UNO)
VL4	L4 x 4 x 5/16	6'-0"
VL6	L6 x 4 x 5/16 LLV	8'-4"

VL(d)

VENEER LINTEL NOTES

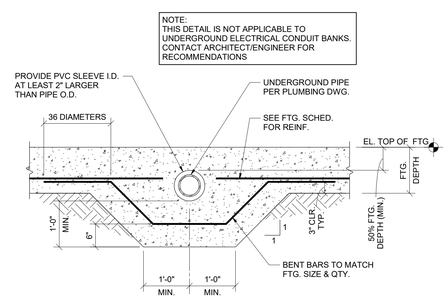
1. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
2. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
3. PROVIDE 6" MINIMUM BEARING EACH END.
4. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

DETAIL 9
3/4" = 1'-0"



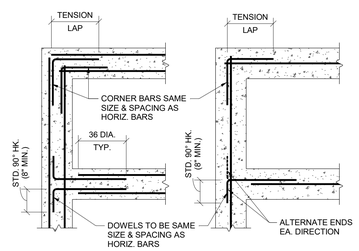
TYPICAL PIPE BELOW FOOTING

DETAIL 10
3/4" = 1'-0"



TYPICAL PIPE THROUGH FOOTING

DETAIL 11
3/4" = 1'-0"



TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION

SECTION 12
3/4" = 1'-0"

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:29 AM
FILE INFO: J:\Active Docs\23446_CMHA Refugee Rd Housing Dvpmt - R23\24.35.061 - CMHA Refugee Rd Apts - Struct (R23).rvt

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EXPERIENCE. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
TYPICAL DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
S002
CD PROGRESS SET

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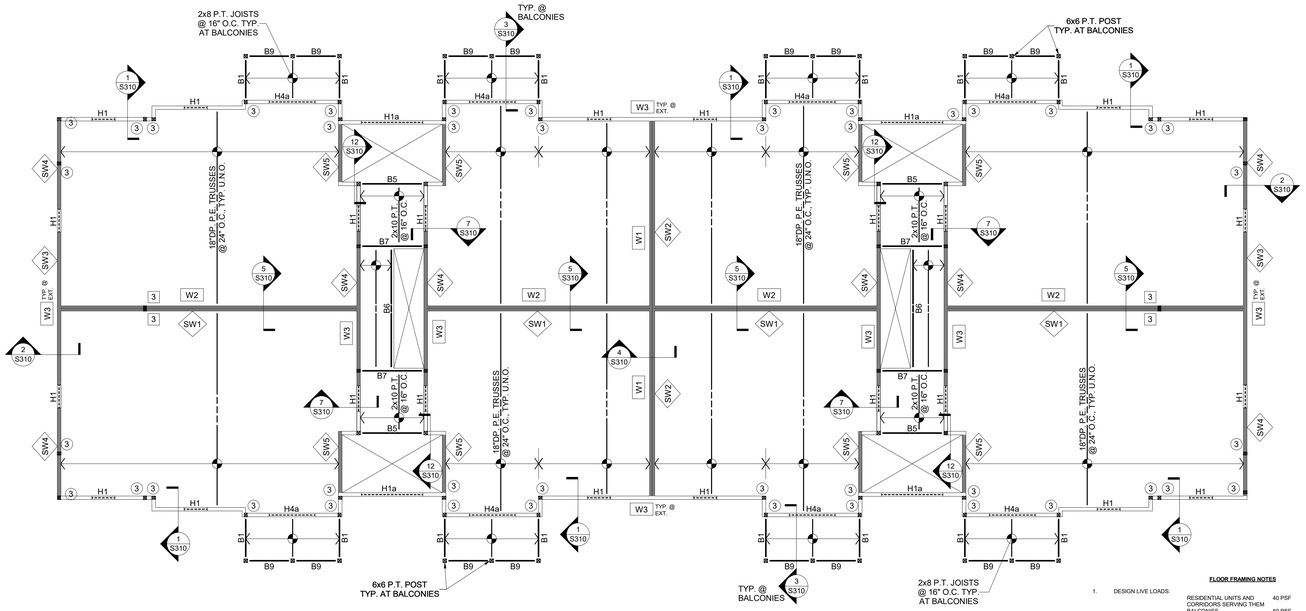


2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:

RESIDENTIAL UNITS AND CORRIDORS SERVING THEM	40 PSF
BALCONIES	60 PSF
STAIRS AND EXITS	100 PSF

2. FLOOR CONSTRUCTION:

1 3/16"SAP BOARD BY RSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTUER'S RECOMMENDATIONS. PROVIDE #8-11.5 x 3"LONG SIMPSON STRONG-TIE WSNTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.

3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:

2ND FLOOR:	EL. = 110'-8 5/16"
3RD FLOOR:	EL. = 121'-4 5/8"
ROOF:	EL. = 131'-5 3/4"

4. B# — INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "B#" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. (#) 2x6 / (#) 2x4 — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORTS UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

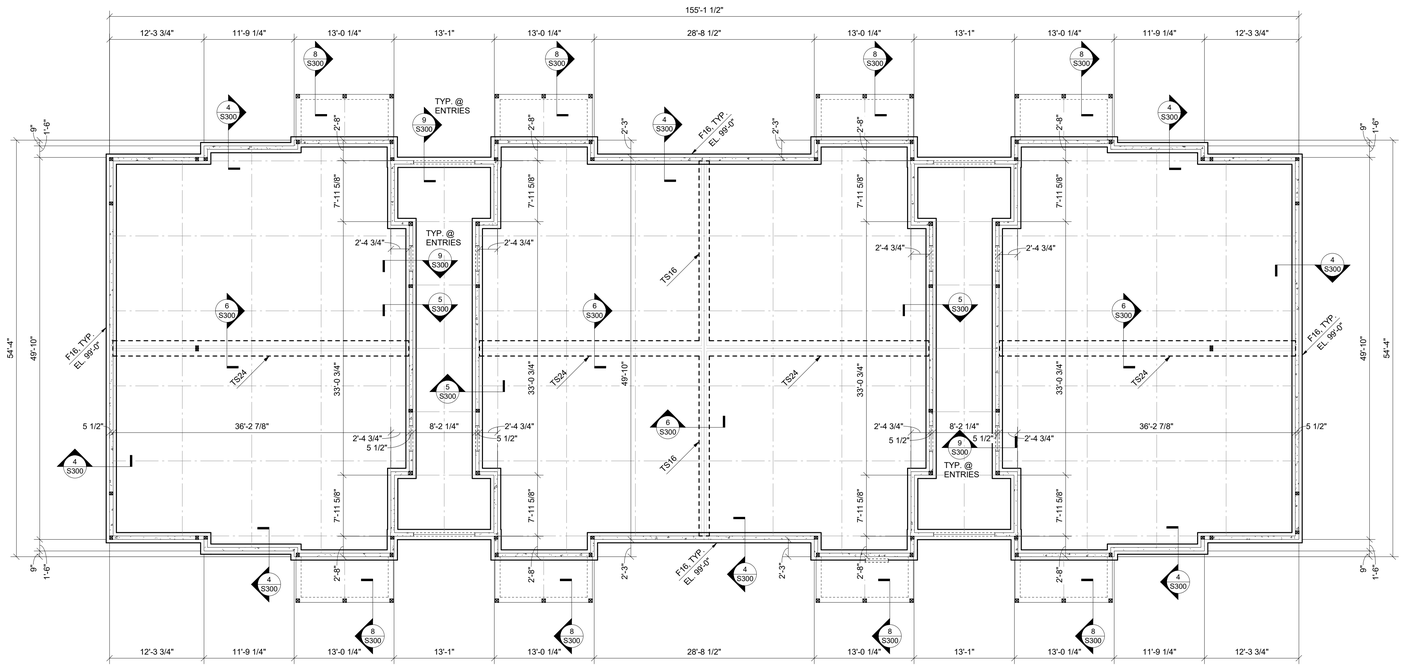
HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.



FOUNDATION PLAN

1/8" = 1'-0"

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF . SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH UNSUITABLE FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. ANY EXCAVATIONS MUST BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 2/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 12/S002
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S101-A

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:32 AM
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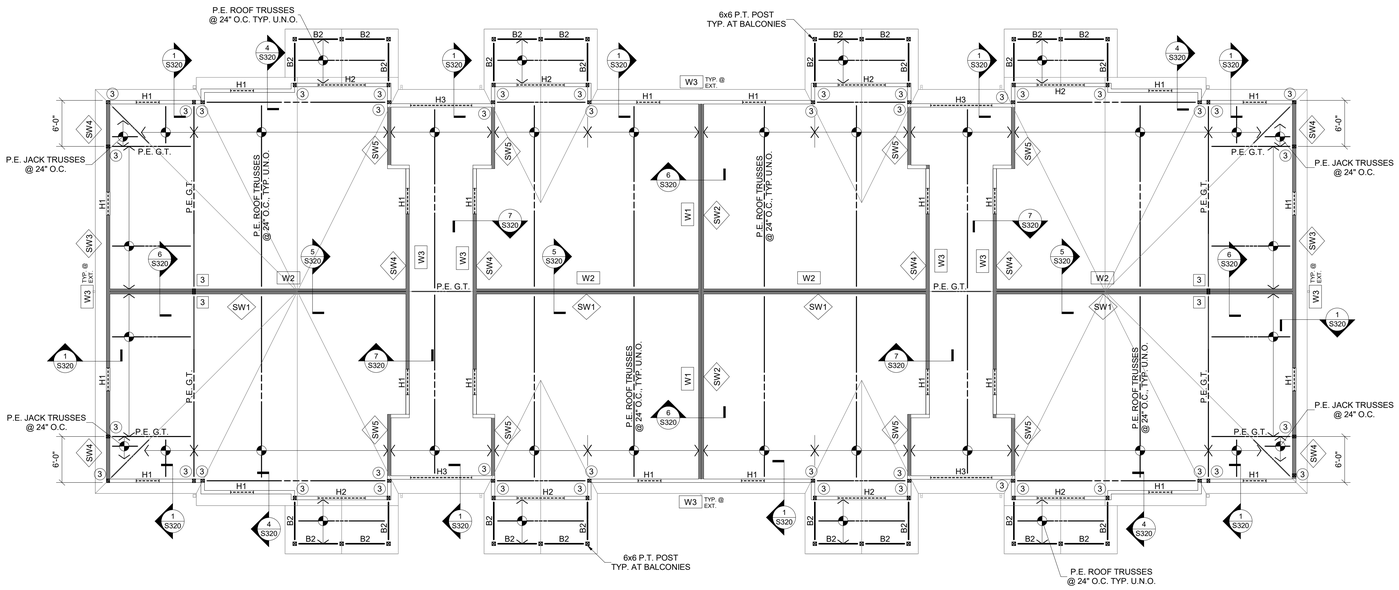
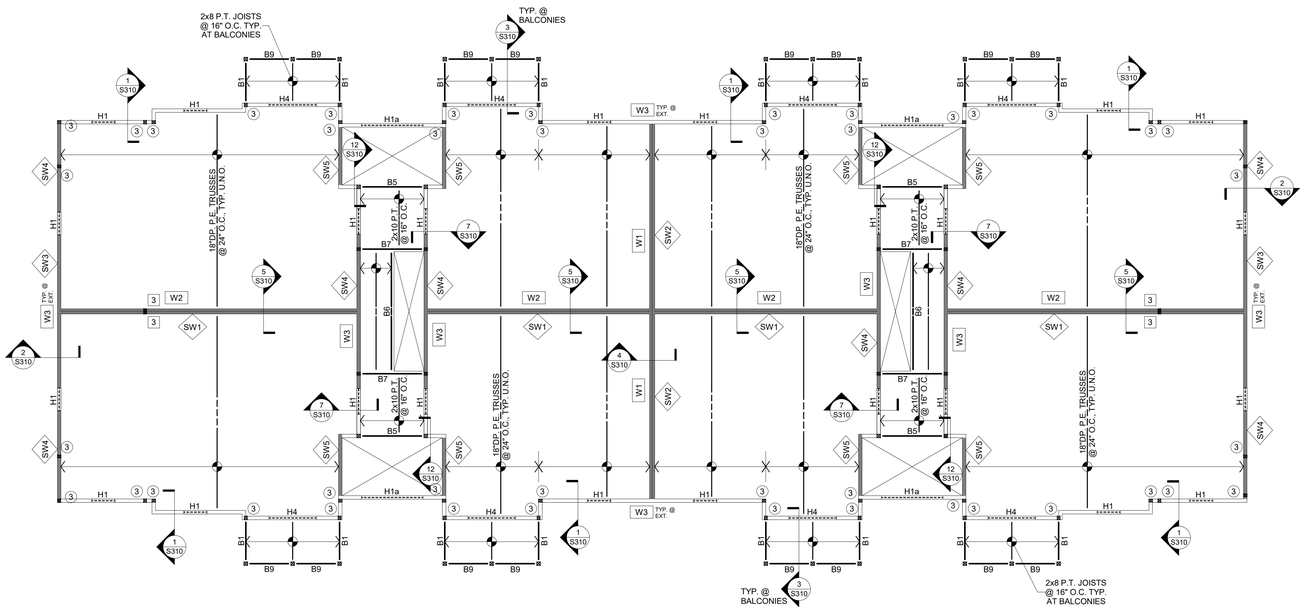


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   - SLOPED ROOF LIVE 16 PSF
   - SLOPED ROOF SNOW 15 PSF
   - WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 131'-5 ½" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. B#: INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H#: INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
7. #2x6 / #2x4: INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW#: INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD#: INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF
   - BALCONIES 60 PSF
   - STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16"SAP BOARD BY RSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE #8-11.5 x 3"LONG SIMPSON STRONG-TIE WSNTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110'-9 5/16"
   - 3RD FLOOR: EL. = 121'-4 5/8"
   - ROOF: EL. = 131'-5 3/4"
4. B#: INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "*B#*" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H#: INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. #2x6 / #2x4: INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW#: INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD#: INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5- 1/4" x 9- 1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7- 1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN-BLDG. A

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

S102-A

CD PROGRESS SET

REVIT VERSION: 2023
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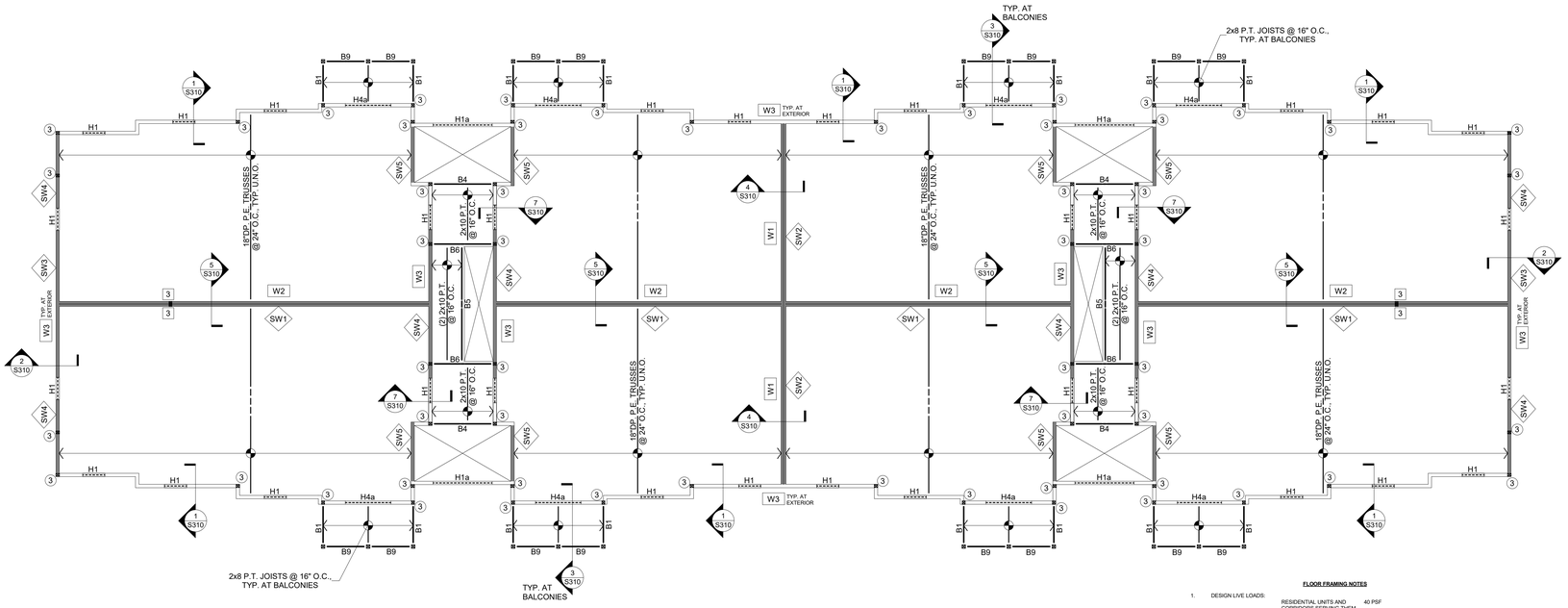
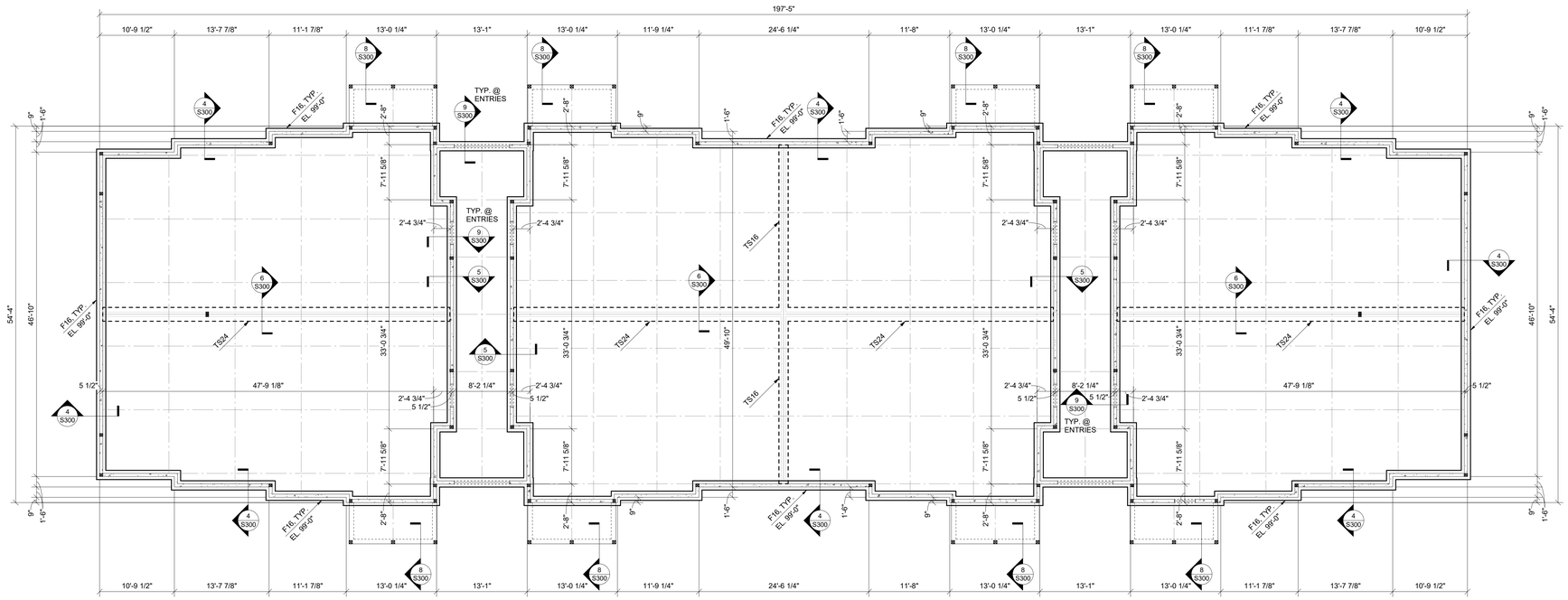


2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM — 40 PSF
   - BALCONIES — 60 PSF
   - STAIRS AND EXITS — 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16"SAP BOARD BY WSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE #9-11 5 x 3"LONG SIMPSON STRONG-TIE WSNTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110'-8 5/16"
   - 3RD FLOOR: EL. = 121'-4 5/8"
   - ROOF: EL. = 131'-5 3/4"
4. B# — INDICATES W/OOD BEAM PER SCHEDULE. BEAMS MARKED AS "*B#" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. (#) 2x6 / (#) 2x4 — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION:TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ — INDICATES FOOTING STEP PER SECTION 2/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 12/S002.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. B

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
S103-B
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:40 AM
FILE INFO: Accessible Doors (23446)_CMHA Refugee Rd Housing Dvpmt - R23(23.05.061 - CMHA Refugee Rd Housing Dvpmt - R23(23.05.061 - CMHA Refugee Rd Apts - Struct (R23).rvt

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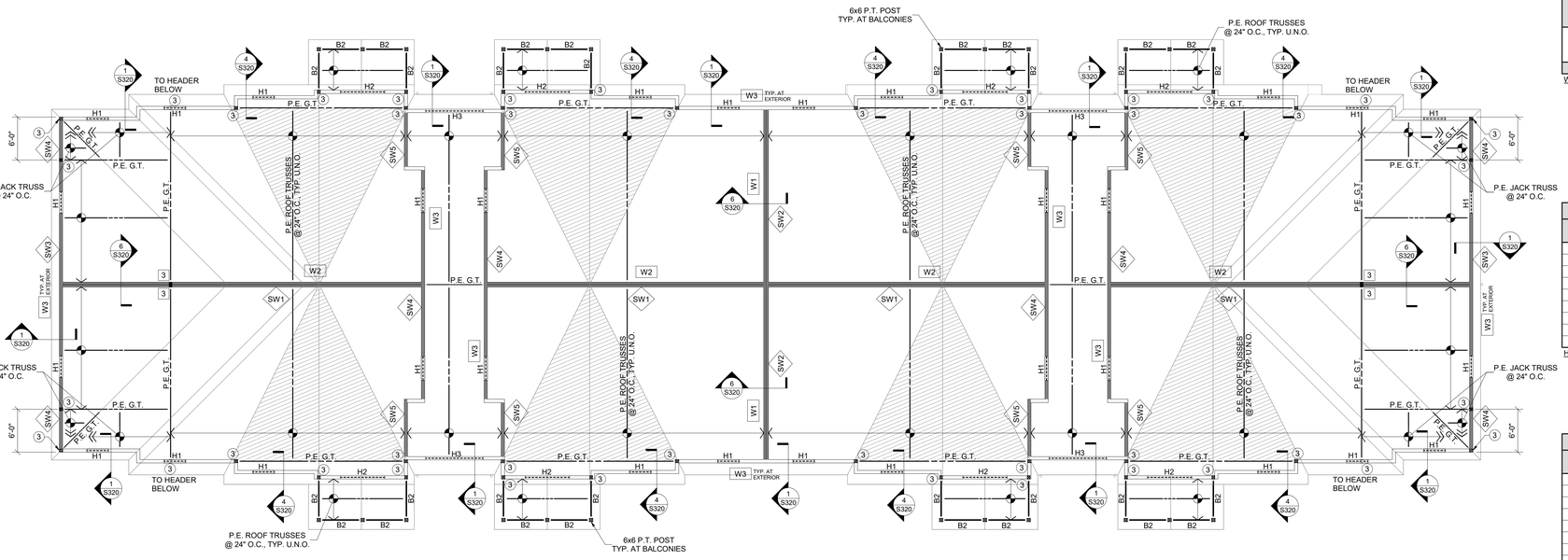


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   - SLOPED ROOF LIVE 16 PSF
   - SLOPED ROOF SNOW 15 PSF
   - WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 131'-5 ½" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. B# INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H# INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
7. # 2x6 / # 2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

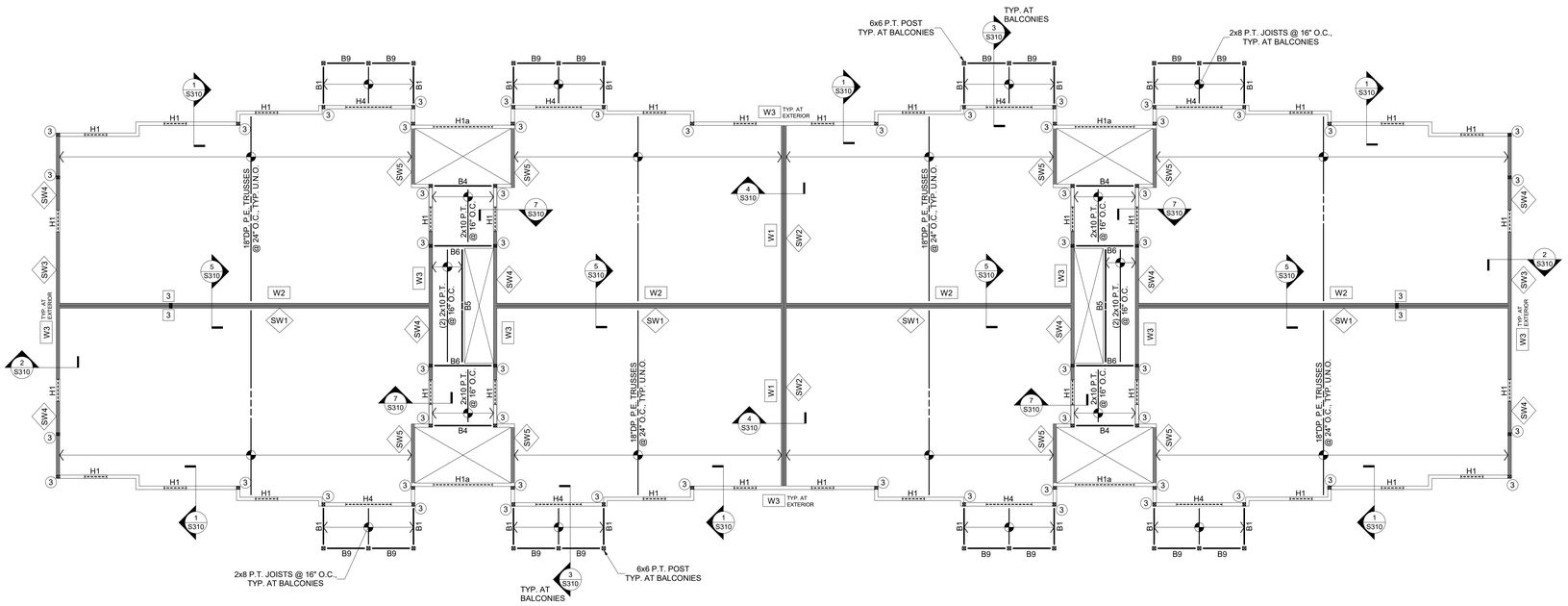
1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.



3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF
   - BALCONIES 60 PSF
   - STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16"SAP BOARD BY RSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE #8-11.5 x 3"LONG SIMPSON STRONG-TIE WSNTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110'-8 5/16"
   - 3RD FLOOR: EL. = 121'-4 5/8"
   - ROOF: EL. = 131'-5 3/4"
4. B# INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "B##" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. # 2x6 / # 2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCY. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN-BLDG. B

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S104-B

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:45 AM
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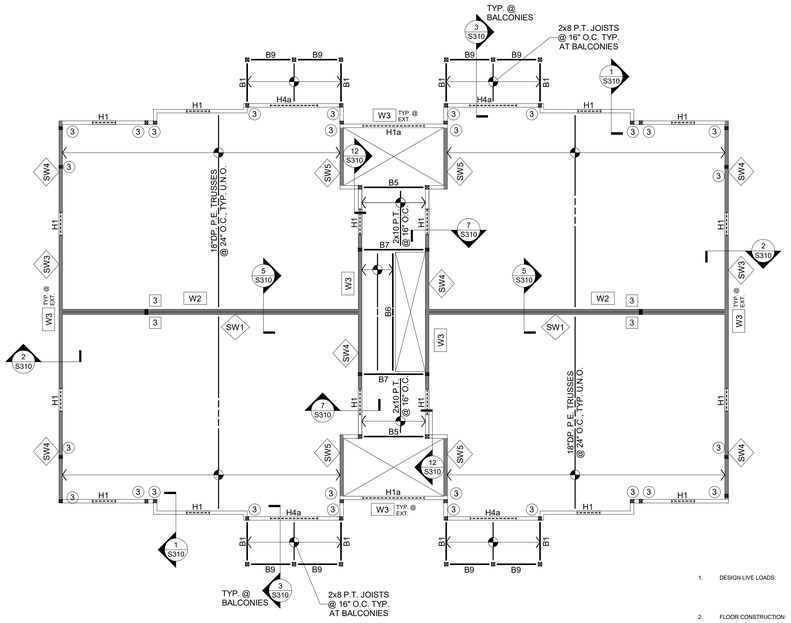
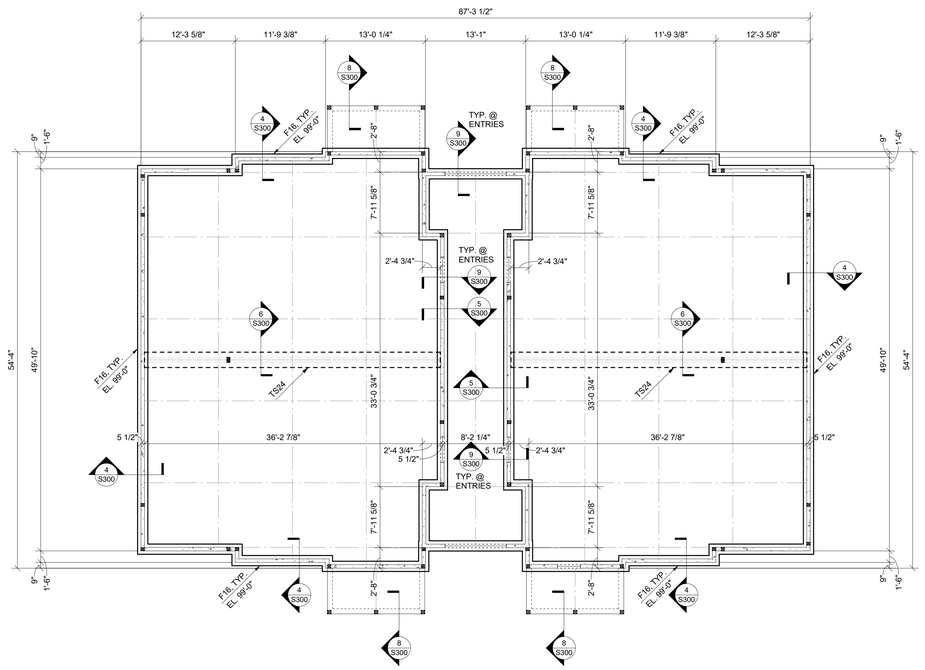


2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM — 40 PSF
   - BALCONIES — 60 PSF
   - STAIRS AND EXITS — 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16"SAP BOARD BY RSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS APG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTUER'S RECOMMENDATIONS. PROVIDE #8-11.5 x 3"LONG SIMPSON STRONG-TIE W3INTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110'-8 5/16"
   - 3RD FLOOR: EL. = 121'-4 5/8"
   - ROOF: EL. = 131'-5 3/4"
4. B#: INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "B#*" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H#: INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. (#) 2x6 / [#] 2x4: INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW#: INDICATES WOOD FRAMED SHEARWALL. SEE SHEET 5200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD#: INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET 5200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET 5001 FOR GENERAL STRUCTURAL INFORMATION.



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF . SEE 5001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 2/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 12/S002.
7. SEE SHEET 5001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU6616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
S105-C
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:48 AM
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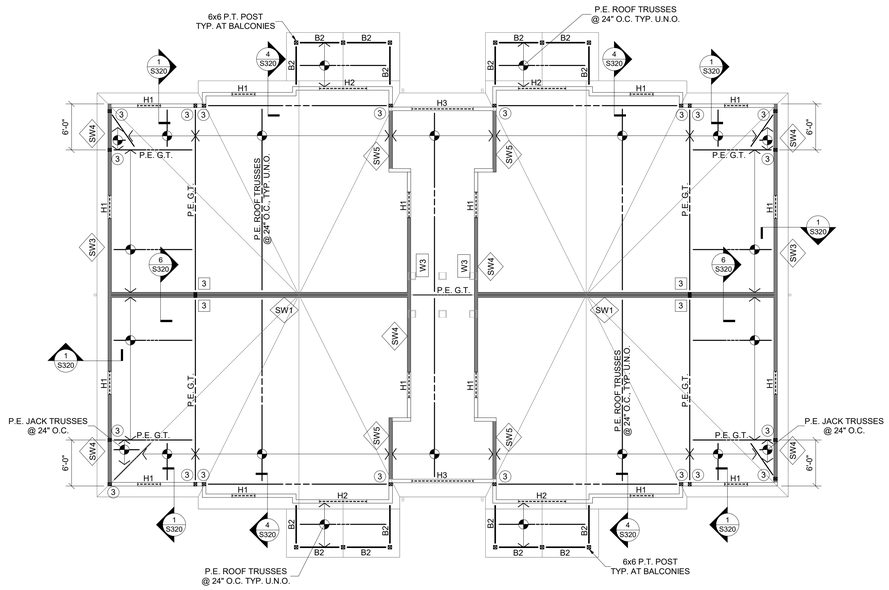
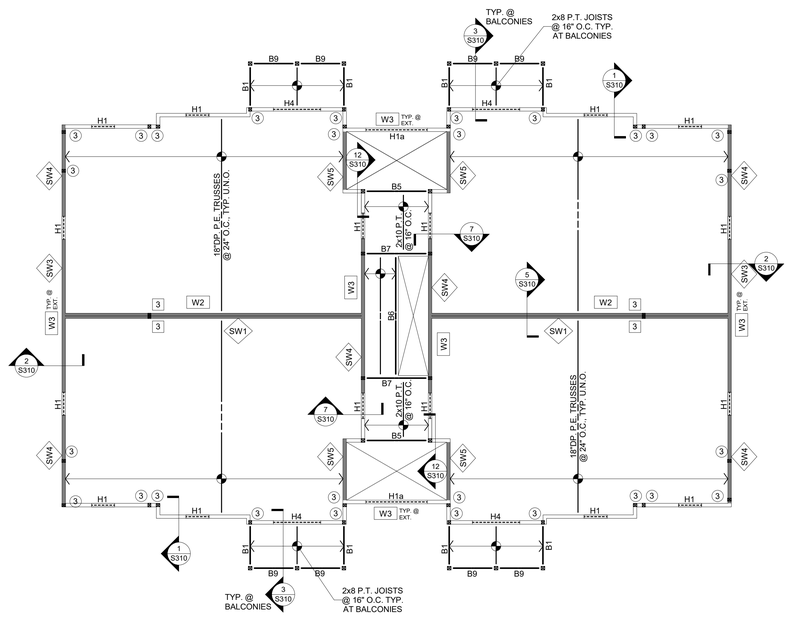


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   - SLOPED ROOF LIVE 16 PSF
   - SLOPED ROOF SNOW 15 PSF
   - WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 131'-5 ½" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. B# — INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H# — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
7. (#) 2x6 / (#) 2x4 — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF
   - BALCONIES 60 PSF
   - STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16"SAP BOARD BY RSP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE #8-11.5 x 3"LONG SIMPSON STRONG-TIE W3NTL SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110'-8 5/16"
   - 3RD FLOOR: EL. = 121'-4 5/8"
   - ROOF: EL. = 131'-5 3/4"
4. B# — INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "*B#" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. (#) 2x6 / (#) 2x4 — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5- 1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN-BLDG. C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S106-C

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:51 AM
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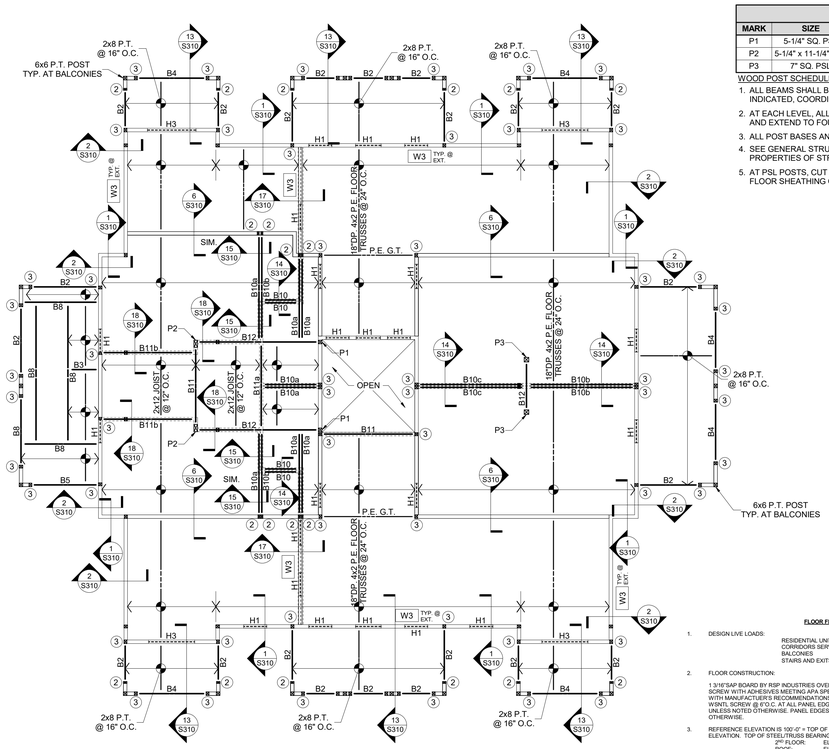


2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD POST SCHEDULE			
MARK	SIZE	POST CAP	ADDITIONAL COMMENTS
P1	5-1/4" SQ. PSL	ECCQ66SDS2.5	
P2	5-1/4" x 11-1/4" PSL	ECCLLQ7.1-6SDS2.5	
P3	7" SQ. PSL	ECCQ7.1-7.1SDS2.5	

WOOD POST SCHEDULE NOTES:

1. ALL BEAMS SHALL BEAR FULLY ON WOOD POSTS. WHERE POST CAPS ARE INDICATED, COORDINATE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH...
2. AT EACH LEVEL, ALL POSTS SHALL BE COMPRISED OF ONE CONTINUOUS PIECE AND EXTEND TO FOUNDATION SUPPORT OR TRANSFER BEAM BELOW, UNLESS...
3. ALL POST BASES AND CAPS ARE TO BE BY SIMPSON STRONG TIE, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR LUMBER GRADES OR MINIMUM PROPERTIES OF STRUCTURAL COMPOSITE LUMBER.
5. AT PSL POSTS, CUT OUT TOP AND BOTTOM PLATES AND INSTALL POSTS TIGHT TO FLOOR SHEATHING OR SUPPORT.

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

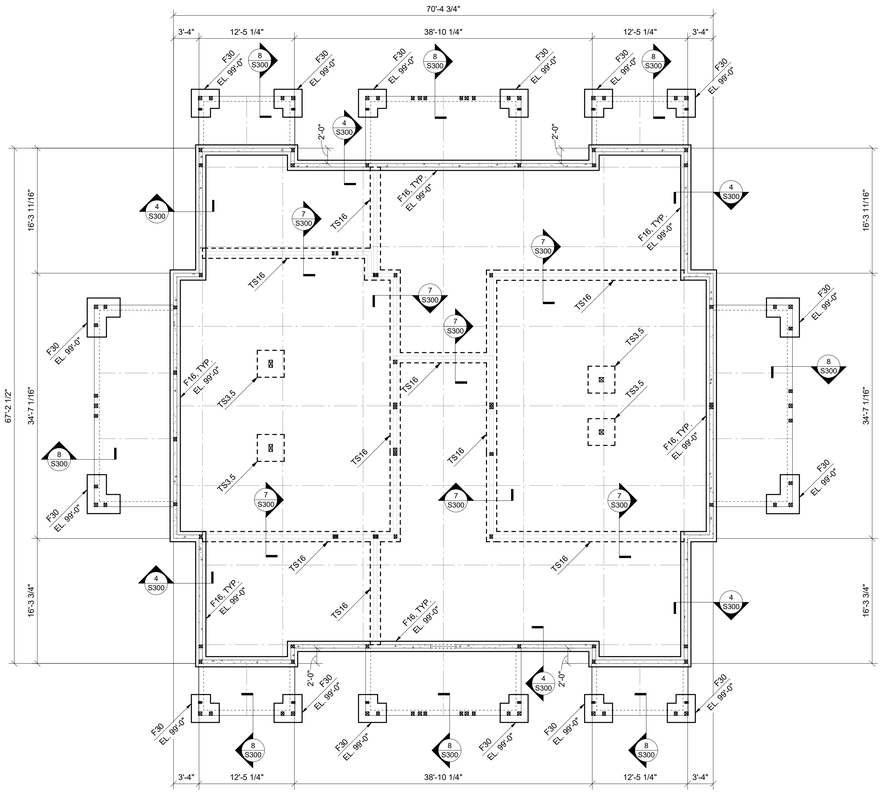
WOOD BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU6616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM — 40 PSF
   - BALCONIES — 60 PSF
   - STAIRS AND EXITS — 100 PSF
2. FLOOR CONSTRUCTION:
   1-3/16"SAP BOARD BY RISP INDUSTRIES OVER 18"DEEP PRE-ENGINEERED 4X2 TRUSSES. GLUE AND NON-CORROSIVE ADHESIVES MEETING APA SPECIFICATIONS AFG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SPECIFICATION: 1-3/ 4" LONG SIMPSON STRONG-DRIVE WSN7L SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 112'-4 5/16"
   - ROOF: EL. = 122'-4"
4. B# — INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "*B#" ARE TO BE FIRE RATED. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. P 2x6 / P 2x4 — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



FOUNDATION PLAN

1/8" = 1'-0"

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
TS3.5	3'-6" x 3'-6" x 1'-0" DP.	(4) #5 EA. WAY BOT.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ — INDICATES FOOTING STEP PER SECTION 2/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 12/S002.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. D

05/01/2025
23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

S107-D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 10:07:52 AM
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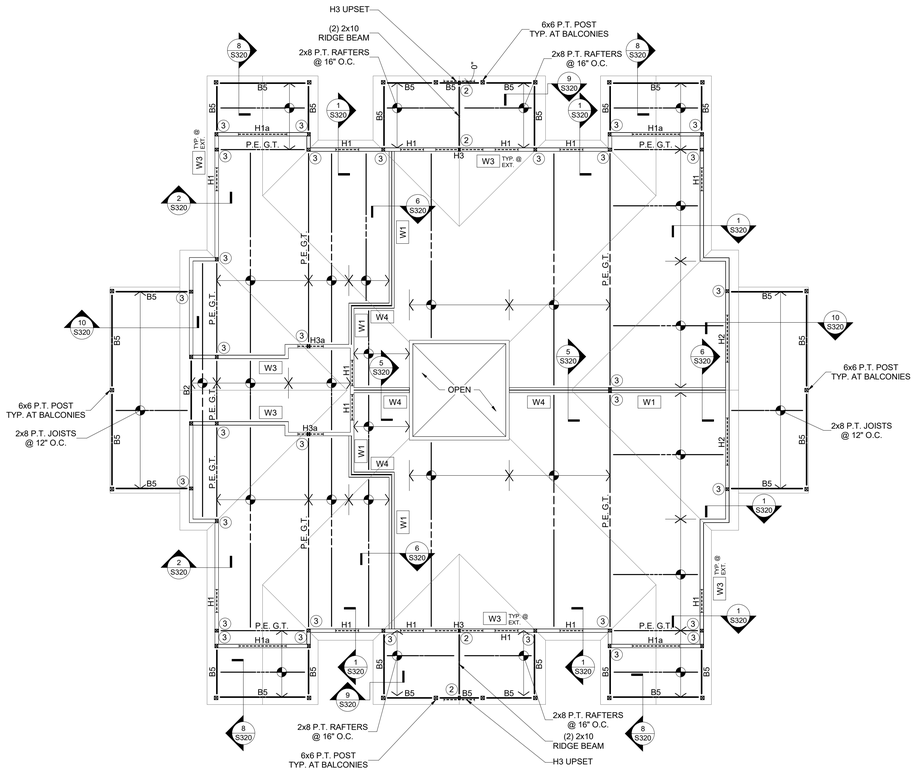
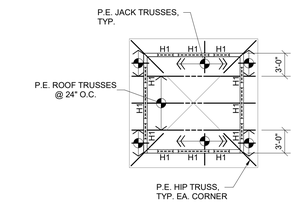


ROOF FRAMING PLAN

1/8" = 1'-0"



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   - SLOPED ROOF LIVE 16 PSF
   - SLOPED ROOF SNOW 15 PSF
   - WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 122'-4" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. B#: INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H#: INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
7. (#) 2x4 / (#) 2x4: INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW#: INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD#: INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGU5.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

ROOF FRAMING PLAN- BLDG. D

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S108-D

CD PROGRESS SET

REVIT VERSION: 2023
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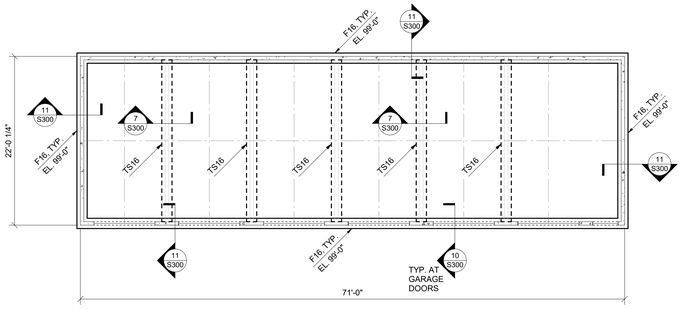
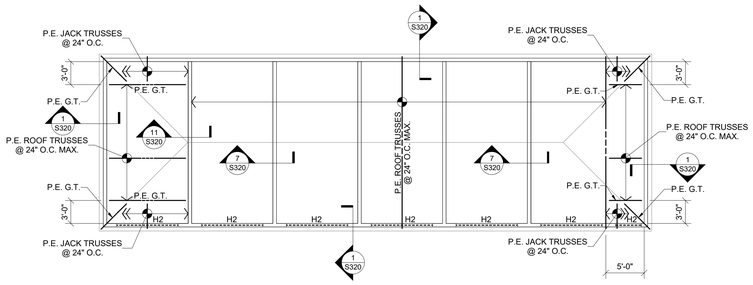


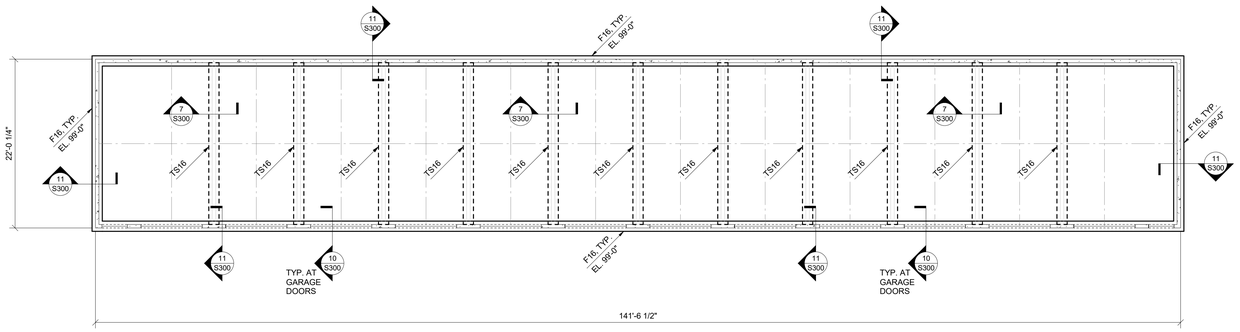
FOUNDATION PLAN - GARAGE G1

1/8" = 1'-0"



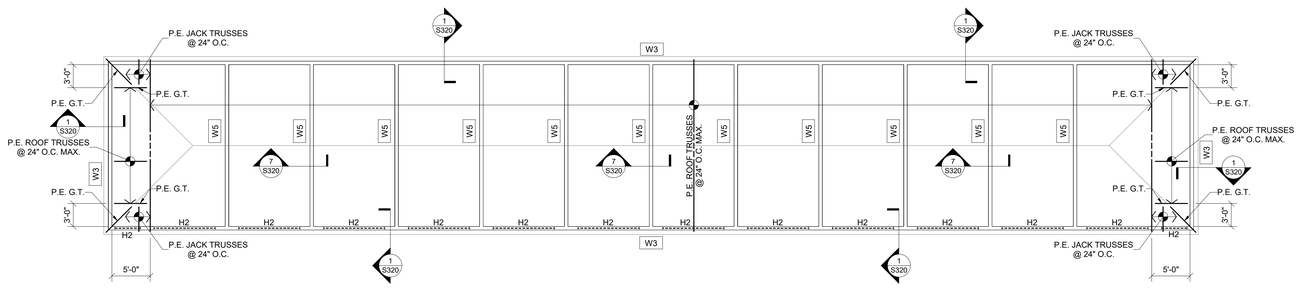
ROOF FRAMING PLAN - GARAGE G1

1/8" = 1'-0"



FOUNDATION PLAN - GARAGE G2

1/8" = 1'-0"



ROOF FRAMING PLAN - GARAGE G2

1/8" = 1'-0"

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   SLOPED ROOF LIVE 16 PSF
   SLOPED ROOF SNOW 15 PSF
   WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 109'-1 ½" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. B# INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H# INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
7. ⊘ 2x6 / # 2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVELS STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 2/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 12/S002.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION AND ROOF FRAMING PLAN - GARAGE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S109-G

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REVIT VERSION: 2023
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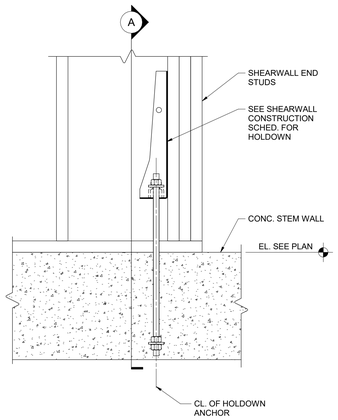
SHEAR WALL SCHEDULE

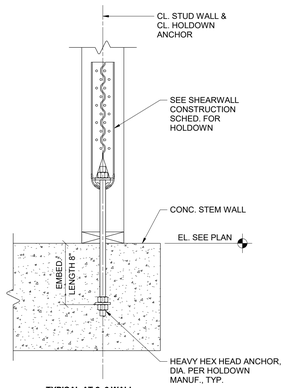
MARK	LEVEL	SHEATHING PANEL	PANEL APPLICATION	SHEATHING PANEL FASTENING			HOLDOWN	SOLE PLATE ANCHORAGE	ADDITIONAL REQUIREMENTS
				FASTENER	PANEL EDGES	PANEL FIELD			
SW1	3RD FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 12" O.C.	
	2ND FLOOR	5/8" GYPSUM	ONE SIDE	6d	4" O.C.	4" O.C.	NONE	16d NAILS @ 8" O.C.	
		7/16" OSB	ONE SIDE	8d	6" O.C.	12" O.C.			
	1ST FLOOR	5/8" GYPSUM	ONE SIDE	6d	4" O.C.	4" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
		7/16" OSB	ONE SIDE	8d	4" O.C.	12" O.C.			
SW2	3RD FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 12" O.C.	
	2ND FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 8" O.C.	
	1ST FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
SW3	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	16d NAILS @ 8" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	(2) 16d NAILS @ 8" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW4	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMSTC16	16d NAILS @ 8" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMST16	(2) 16d NAILS @ 8" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	HDU5-SDS2.5	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW5	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMSTC16	16d NAILS @ 6" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMSTC16	(2) 16d NAILS @ 6" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	HDU8-SDS2.5	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			

SHEARWALL SCHEDULE NOTES:

1. 'APA RATED' SHEATHING INCLUDES PLYWOOD OR ORIENTED STRAND BOARD (OSB) MATERIALS AS RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA).
2. ALL PANEL EDGES SHALL BE LOCATED ON STUDS, BLOCKING, BLOCKING LAID FLATWAYS AGAINST SHEATHING, PLATES, OR RIM BOARD.
3. FASTENER SUBSTITUTIONS ARE NOT PERMITTED, UNLESS APPROVED ENGINEER REVIEW IS COMPLETED AT CONTRACTOR'S EXPENSE.
4. PROVIDE SIMPSON BPS1/2-3 PLATE WASHERS AT ALL SILL PLATE ANCHORS ATTACHING BOTTOM OF SHEAR WALL TO FOUNDATION OR CONCRETE SLAB. NEAREST EDGE OF PLATE WASHERS SHALL BE LOCATED NO FARTHER THAN 1/2-INCH FROM INSIDE FACE OF SHEAR WALL SHEATHING.
5. 'BOUNDARY END STUDS' ARE STUD PACKS OR POSTS LOCATED AT THE EACH END OF SHEARWALLS. STUDS AND POSTS SHALL BE OF SAME SIZE AND MATERIAL AS THE WALL THEY ARE INTEGRAL WITH; POST DEPTH SHALL MATCH STUD DEPTH AND WIDTH SHALL BE AS INDICATED IN SCHEDULE. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM 'PSL' MATERIAL STANDARDS. PROVIDE A MINIMUM OF 2 BOUNDARY STUDS EACH END OF SHEARWALL UNLESS NOTED IN "ADDITIONAL COMMENTS" COLUMN.
6. ALL HOLDOWNS AND SOLE PLATE ANCHORS INDICATED (OTHER THAN NAILS) ARE MANUFACTURED BY SIMPSON STRONG-TIE. FOLLOW ALL MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. HOLDOWNS INDICATED ARE APPLIED TO THE BASE OF LEVEL INDICATED AND HOLDOWNS INDICATED AT THE BASE OF UPPER FLOORS SHALL BE TIED THROUGH FLOOR FRAMING TO THE TOP OF THE SHEARWALL BELOW AS INDICATED IN DETAILS 1 THROUGH 4 ON THIS SHEET.
7. COORDINATE SOLE PLATE ANCHORAGES WITH TYPICAL CONSTRUCTION DETAILS INDICATED THROUGHOUT STRUCTURAL DRAWINGS.
8. ALL SHEARWALL TOP PLATES MUST BE A MINIMUM OF TWO IN NUMBER, HAVE STAGGERED SPLICED LOCATIONS, AND OCCUR OVER STUD LOCATIONS. SEE STRUCTURAL DETAILS FOR TRIPLE TOP PLATE REQUIREMENTS, IF ANY. SEE 6/S2.00 FOR TYPICAL TOP PLATE SPLICING DETAIL.
9. CAST-IN-PLACE (CIP) ANCHORS SHALL BE EMBEDDED IN CONCRETE A MINIMUM OF 6".
10. "*" INDICATES 4 STORY END OF SHEAR WALL, "#" INDICATES 3 STORY END OF SHEAR WALL.
11. FOR GYPSUM WALL SHEATHING, # 8 DRYWALL SCREWS MAY BE SUBSTITUTED IN LIEU OF NAILING AT SAME PATTERN.

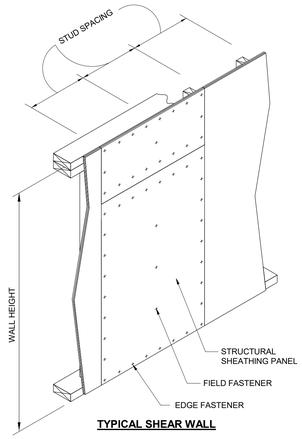


SECTION 1
1 1/2" = 1'-0"



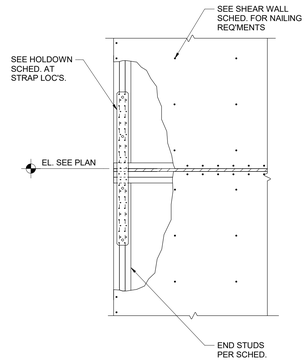
TYPICAL AT 2x6 WALL

SECTION A



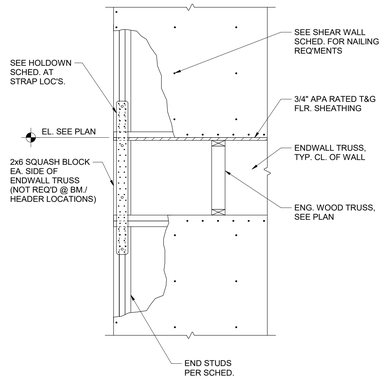
TYPICAL SHEAR WALL

SECTION 2
3/4" = 1'-0"



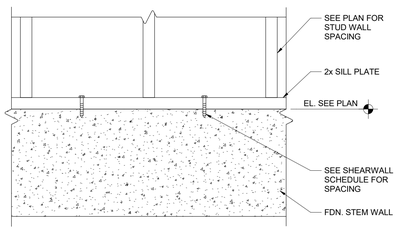
TYPICAL SHEARWALL HOLD-DOWN AT FULL HEIGHT WALL

SECTION 3
3/4" = 1'-0"

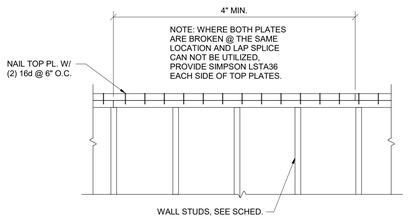


TYPICAL SHEARWALL HOLD-DOWN AT BEARING WALL

SECTION 4
3/4" = 1'-0"



SECTION 5
1 1/2" = 1'-0"



TYPICAL SHEARWALL-TOP PLATE SPLICE

SECTION 6
3/4" = 1'-0"

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PRINT DATE: 5/5/2025 10:07:57 AM
FILE INFO: Jobsite Docs/23446_CMHA Refugee Rd Housing Dvpmt - R23\23-35.061 - CMHA Refugee Rd Apts - Struct\R23.rvt

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SHEAR WALL SCHEDULE AND DETAILS

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

S200

CD PROGRESS SET

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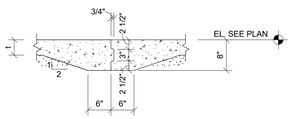
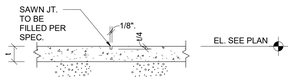


TYPICAL FLOOR CONSTRUCTION JOINT



TYPICAL FLOOR CONTROL JOINT

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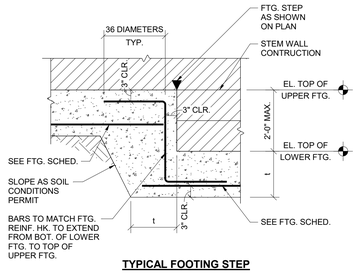
3/4" = 1'-0"



TYPICAL FOOTING STEP

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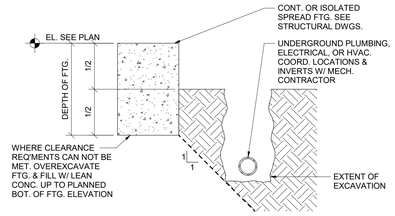

TYPICAL EXCAVATION CLEARANCE REQUIREMENTS

SECTION 3
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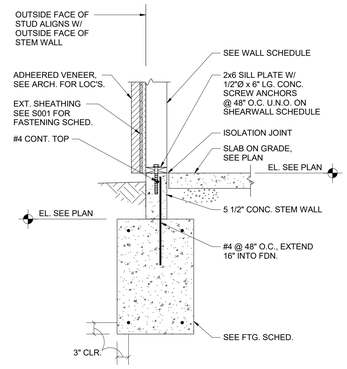

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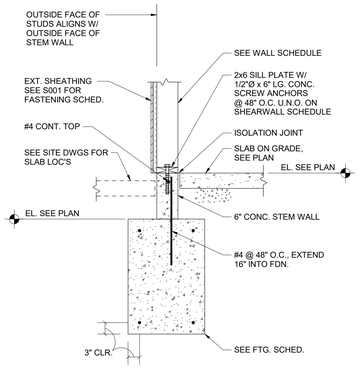

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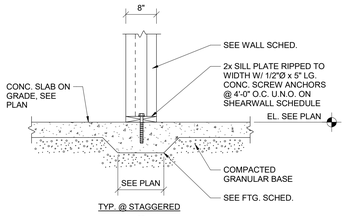
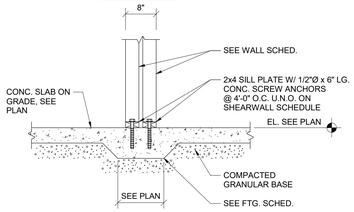


TYP. @ STAGGERED



TYP. @ DBL. 2x4 WALL

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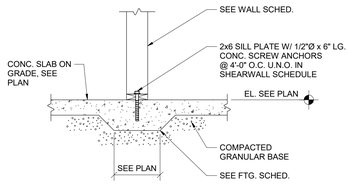
3/4" = 1'-0"



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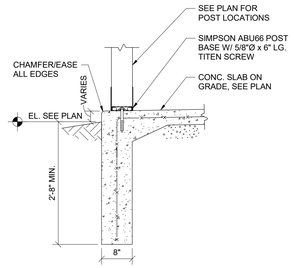

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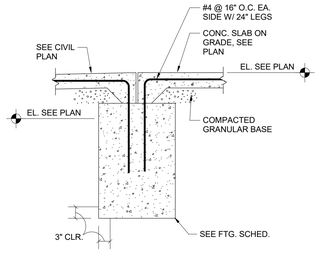

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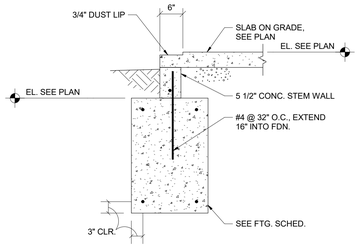

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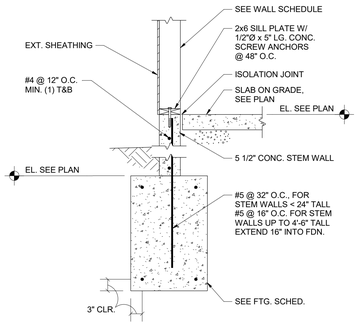

SECTION 11
3/4" = 1'-0"

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FOR
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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

FOUNDATION DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

S300

CD PROGRESS SET

REVIT VERSION: 2023
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FILE INFO: Autosave Doors/23446_CMHA Refugee Rd Housing D.rvt - R23/24.35.061 - CMHA Refugee Rd Apts - Struct (R23).rvt

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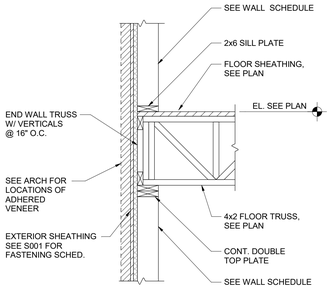

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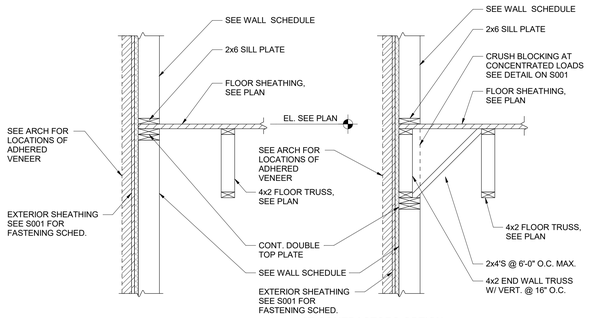
3/4" = 1'-0"



AT CONTRACTORS OPTION

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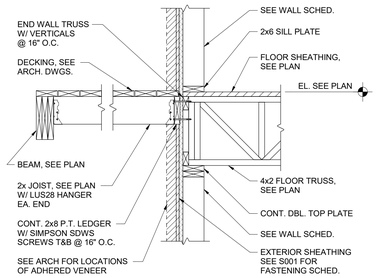

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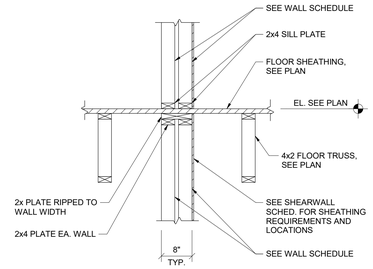

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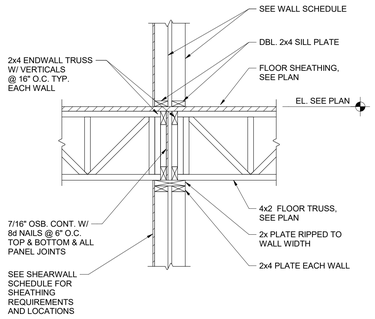

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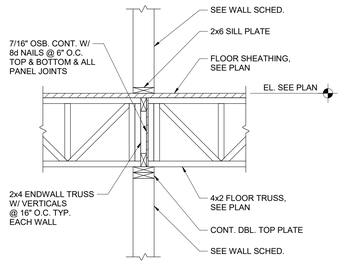

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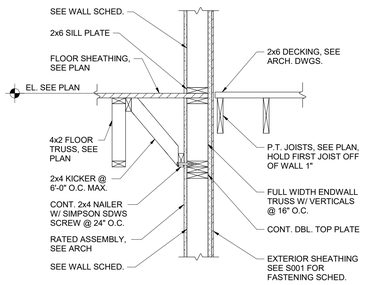

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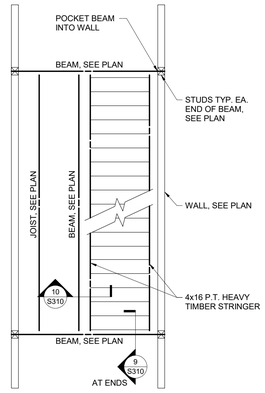

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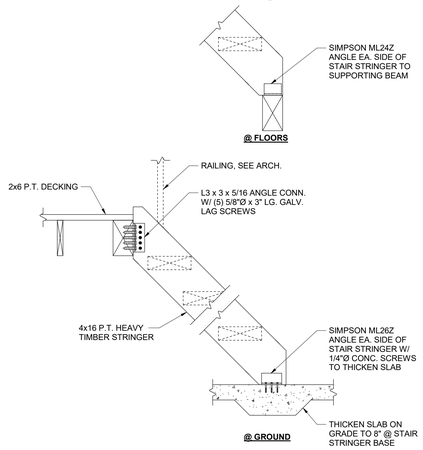

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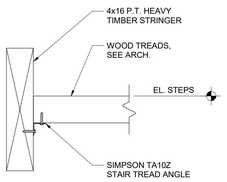

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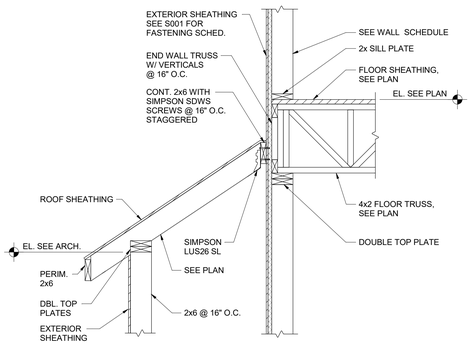
1 1/2" = 1'-0"



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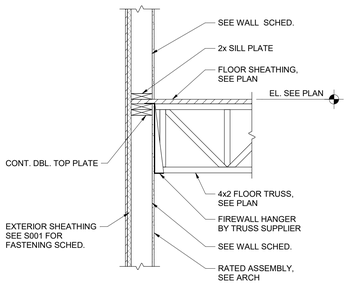

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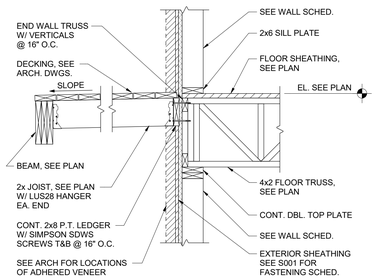

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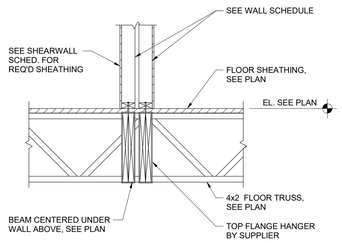

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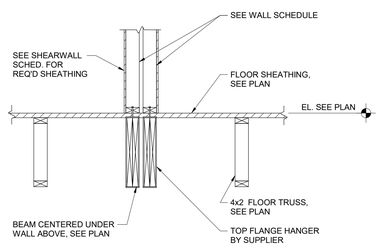

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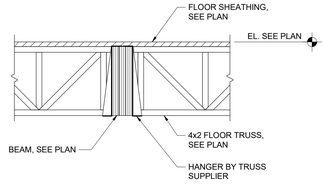

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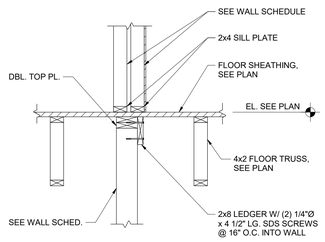

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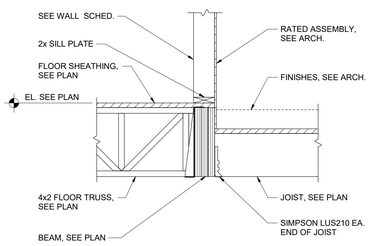

SECTION 18
3/4" = 1'-0"

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FRAMING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
S310
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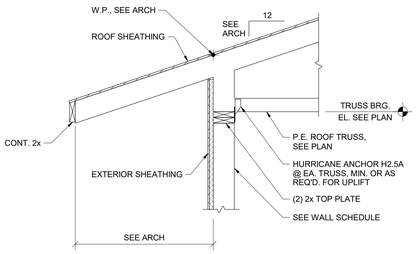
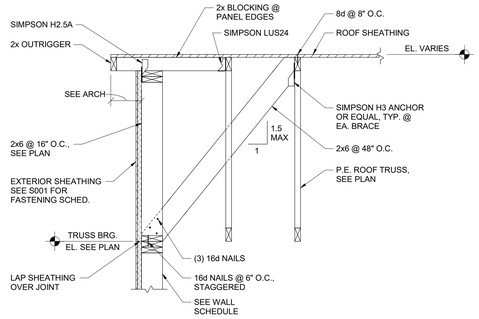


SECTION 1
3/4" = 1'-0"



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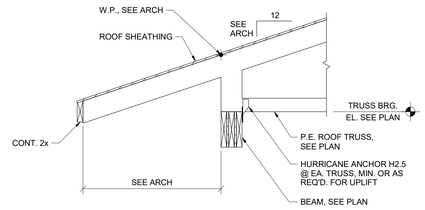

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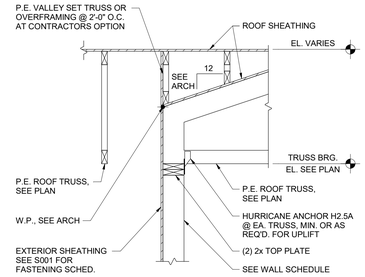

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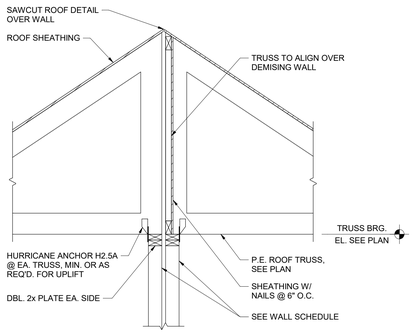

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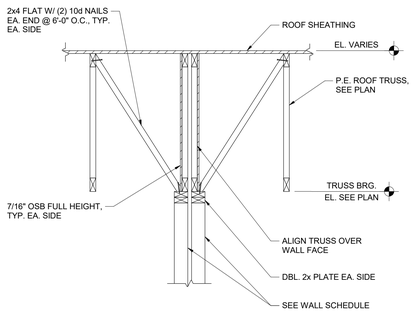
3/4" = 1'-0"



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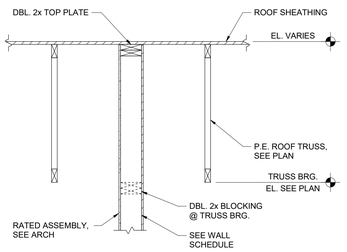

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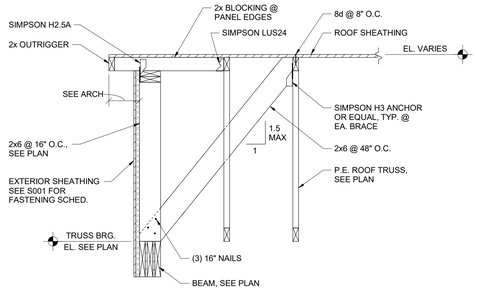
3/4" = 1'-0"



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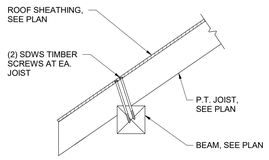
3/4" = 1'-0"



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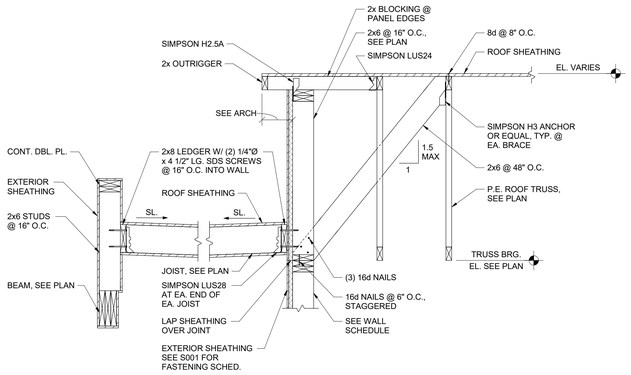

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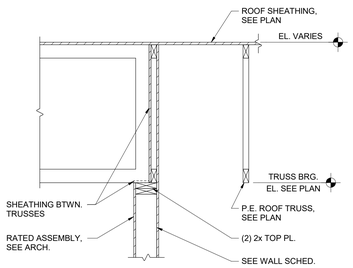
3/4" = 1'-0"



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3/4" = 1'-0"

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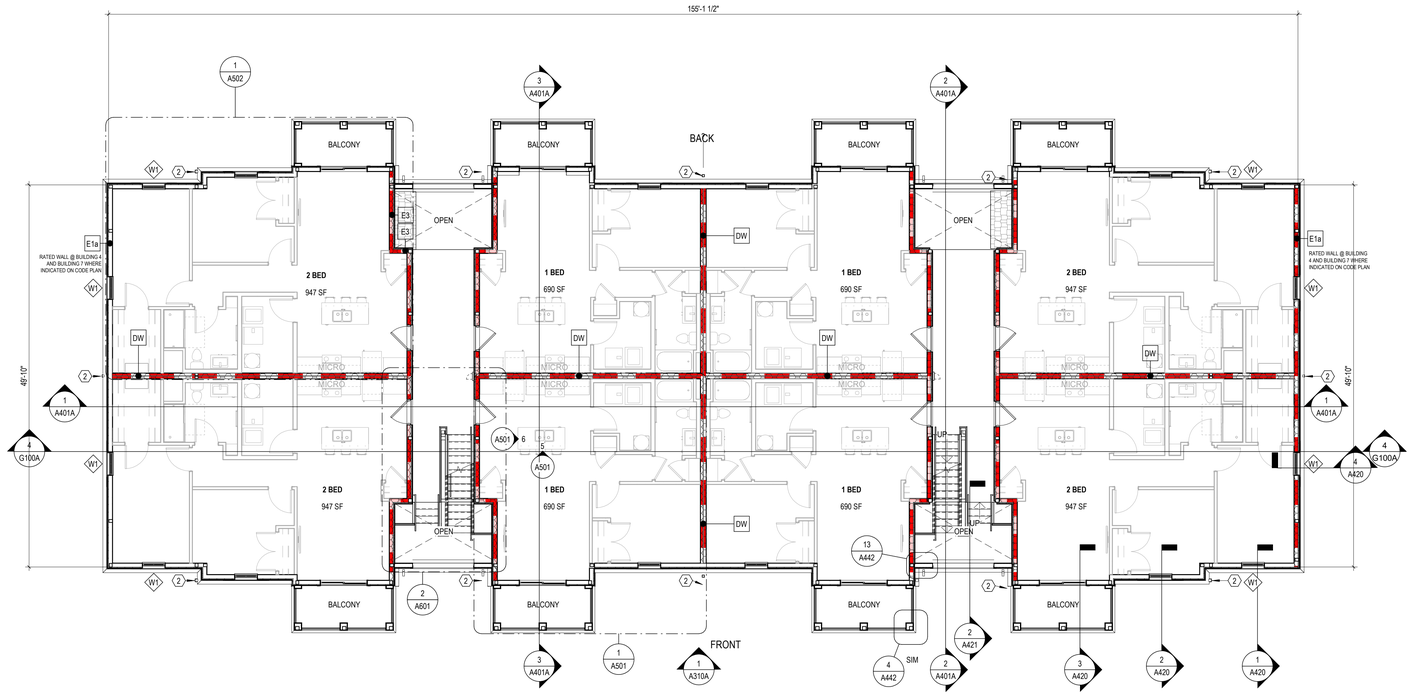
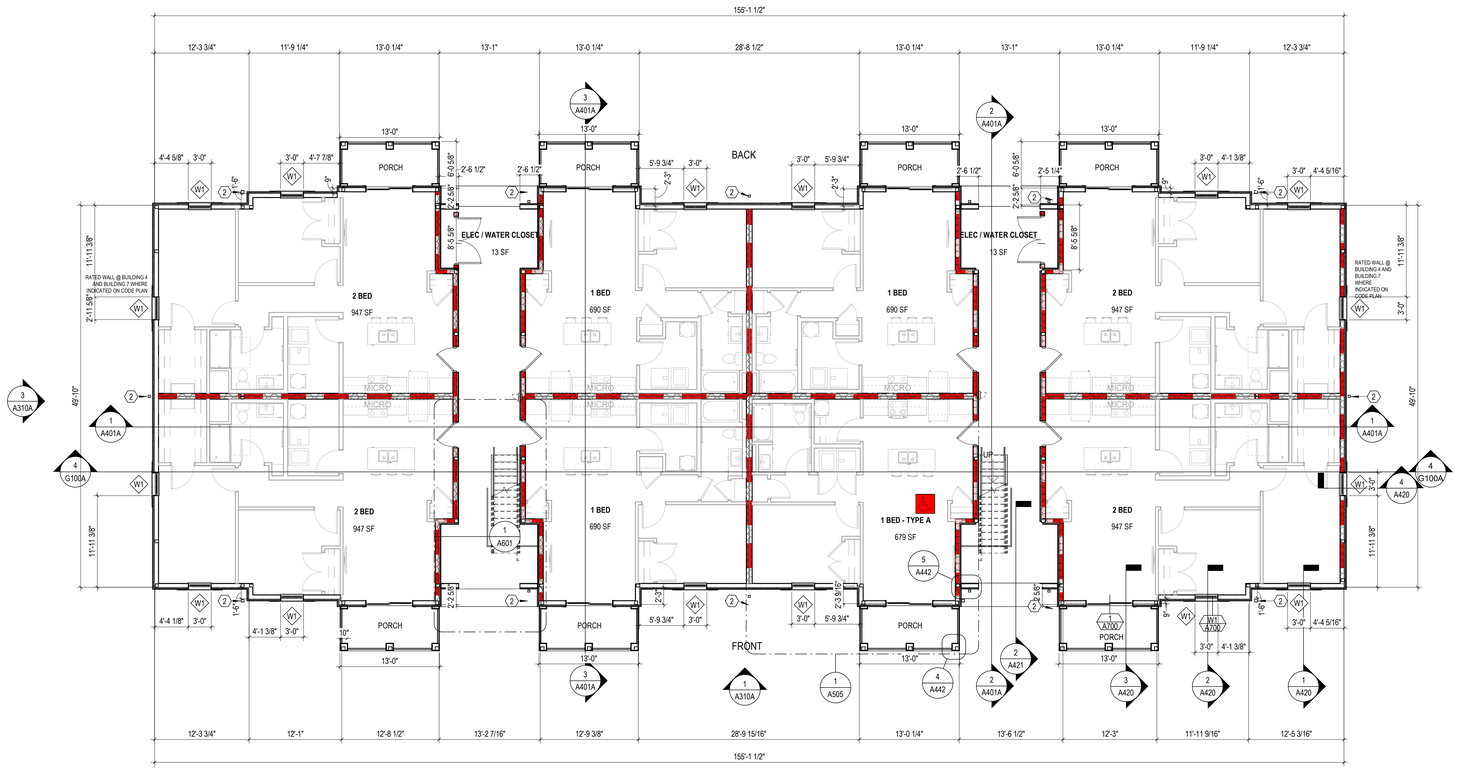


2 PLAN
LEVEL 02 - FLOOR PLAN - BUILDING A
1/8" = 1'-0"



1 PLAN
LEVEL 01 - FLOOR PLAN - BUILDING A
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMINENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).

(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWN SPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02 FLOOR PLANS

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A101A
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 1:55:55 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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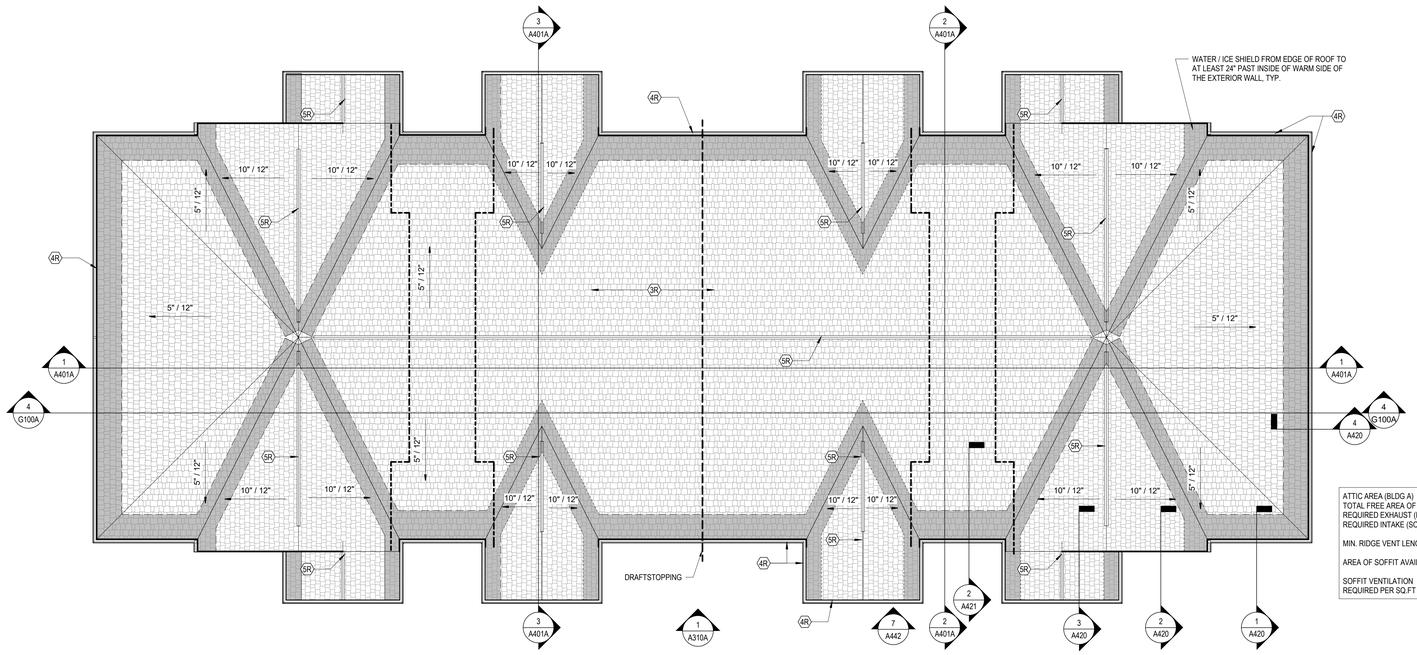
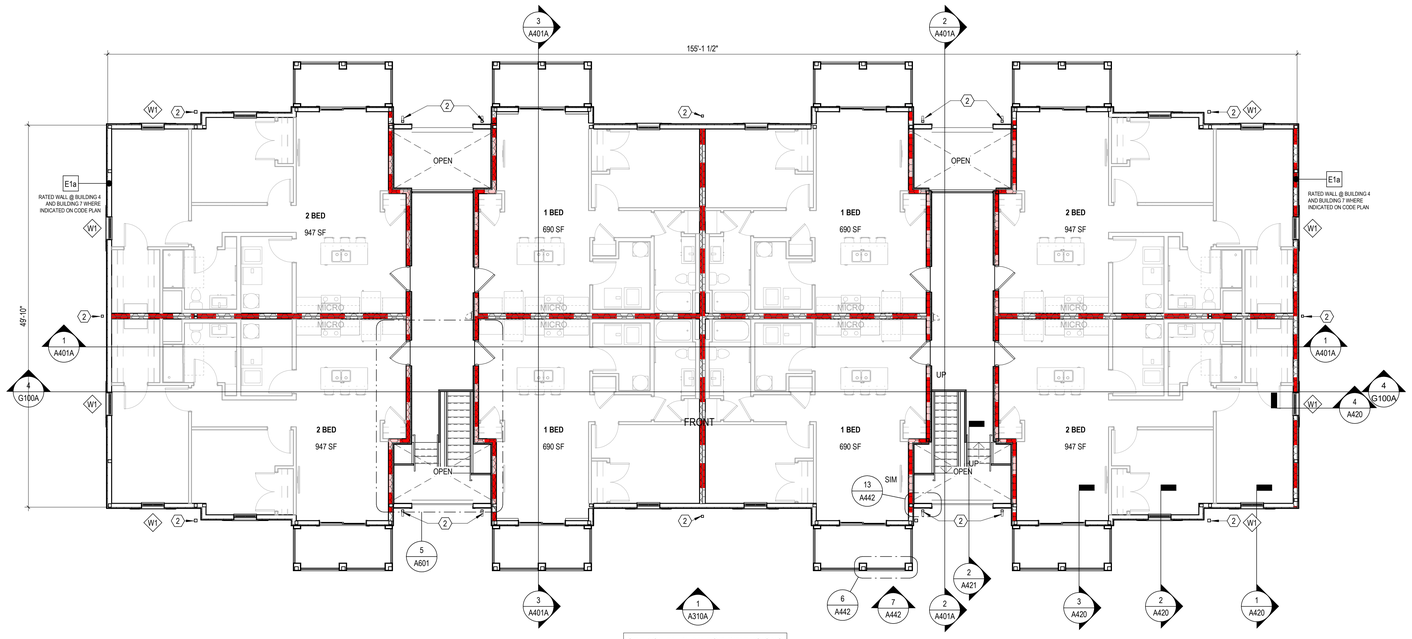


ATTIC AREA (BLDG A)	8,554 SF
TOTAL FREE AREA OF VENTILATION	8,554 / 150 = 57.03 SF OR 8,212 SI
REQUIRED EXHAUST (RIDGE VENT)	8,212 / 2 = 4,106 SI
REQUIRED INTAKE (SOFFIT)	8,212 / 2 = 4,106 SI
MIN. RIDGE VENT LENGTH	4,106 / 18 SI PER FT = 228 FT (239 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	352 LINEAR FT X 1'-3" SOFFIT DEPTH = 440 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT	4,106 / 440 = 9.3 SI / FT

2 PLAN ROOF PLAN - BUILDING A
1/8" = 1'-0"

BACK



SEE 1ST FL PLAN FOR DIMENSIONS

1 PLAN LEVEL 03 - OVERALL PLAN - BUILDING A
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMINENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

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(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWN SPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

(X) CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINIUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTICE VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - LEVEL 03 / ROOF PLAN

05/01/2025

23446

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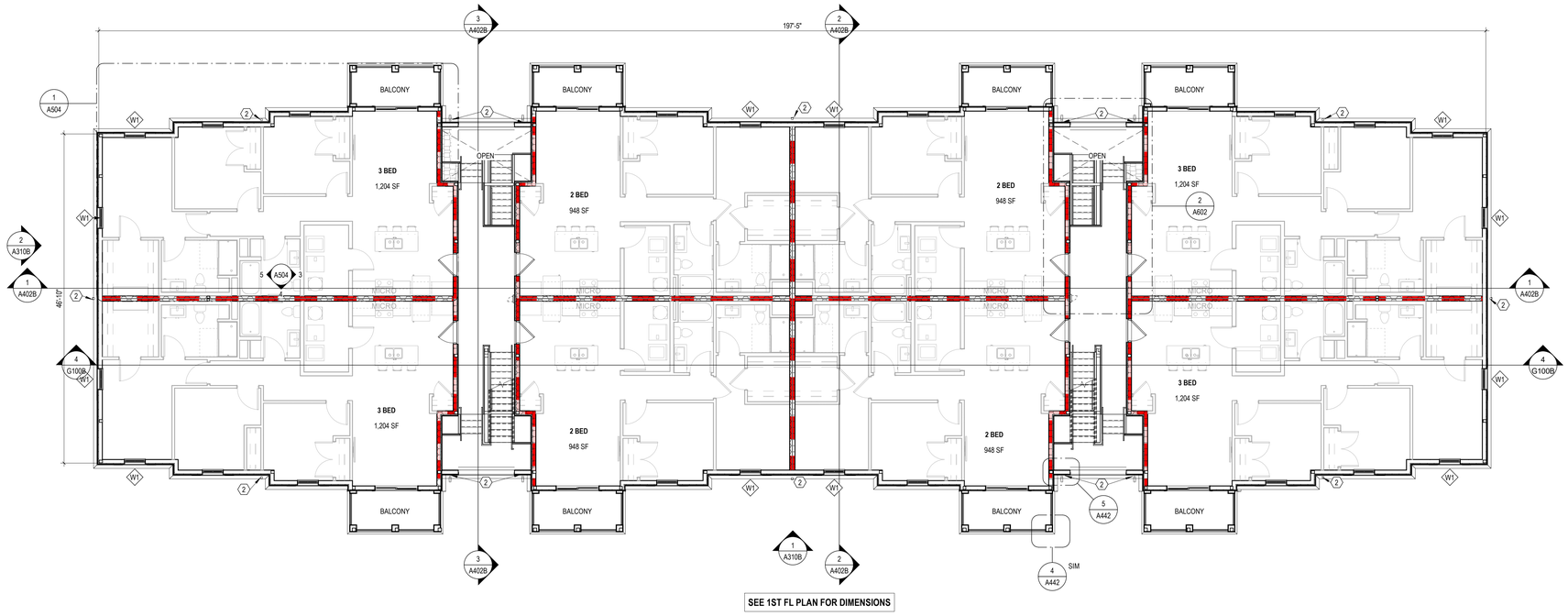
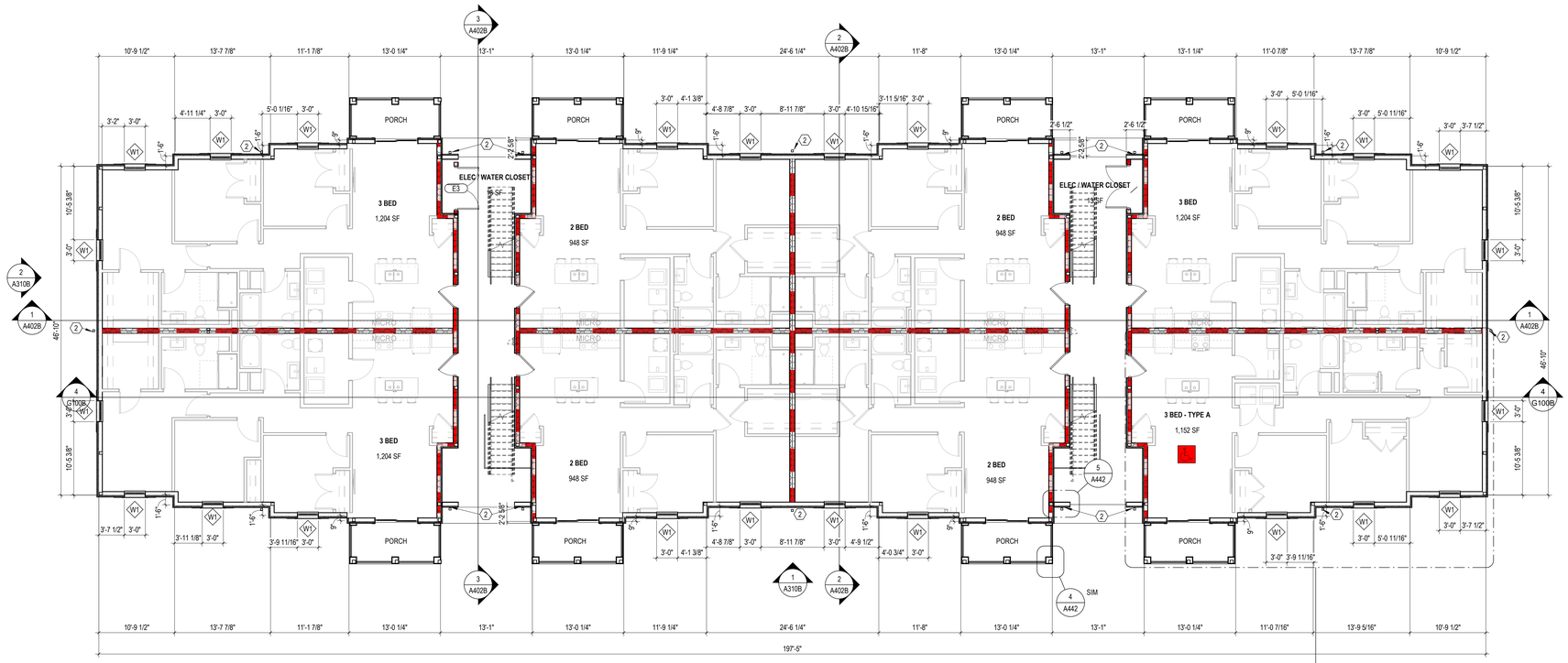


2 PLAN LEVEL 02 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMINENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

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(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWN SPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 FLOOR PLANS

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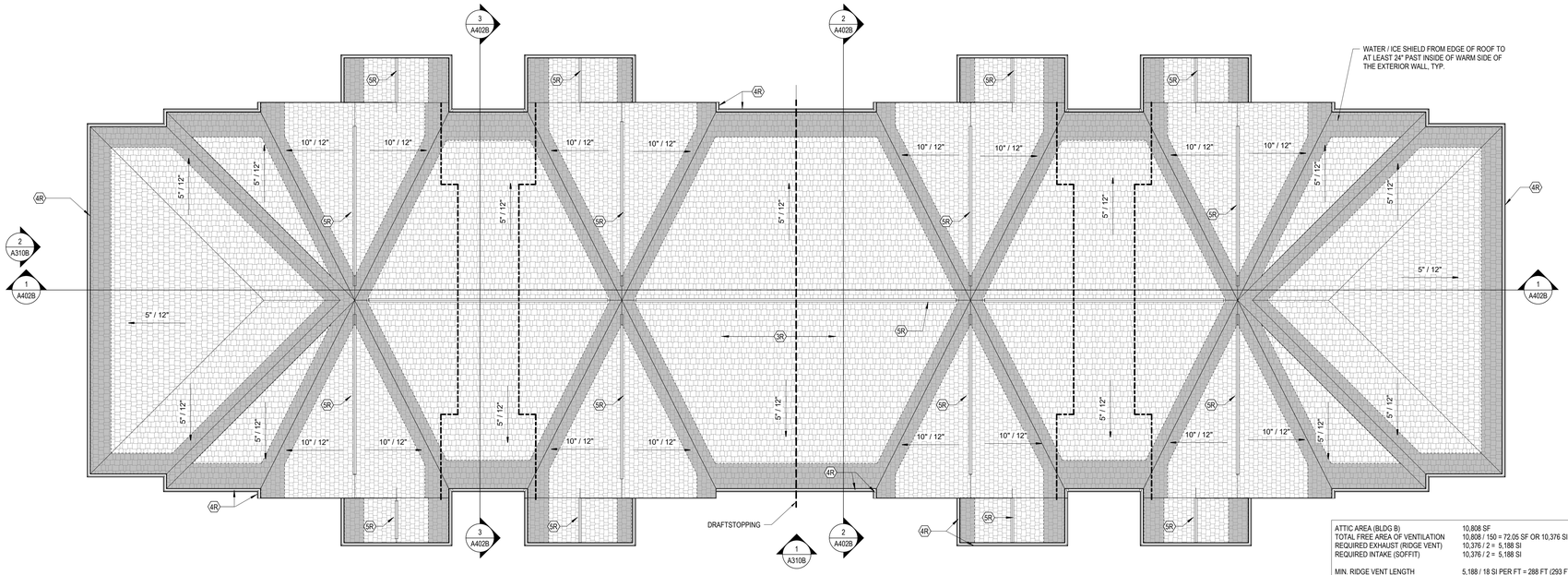
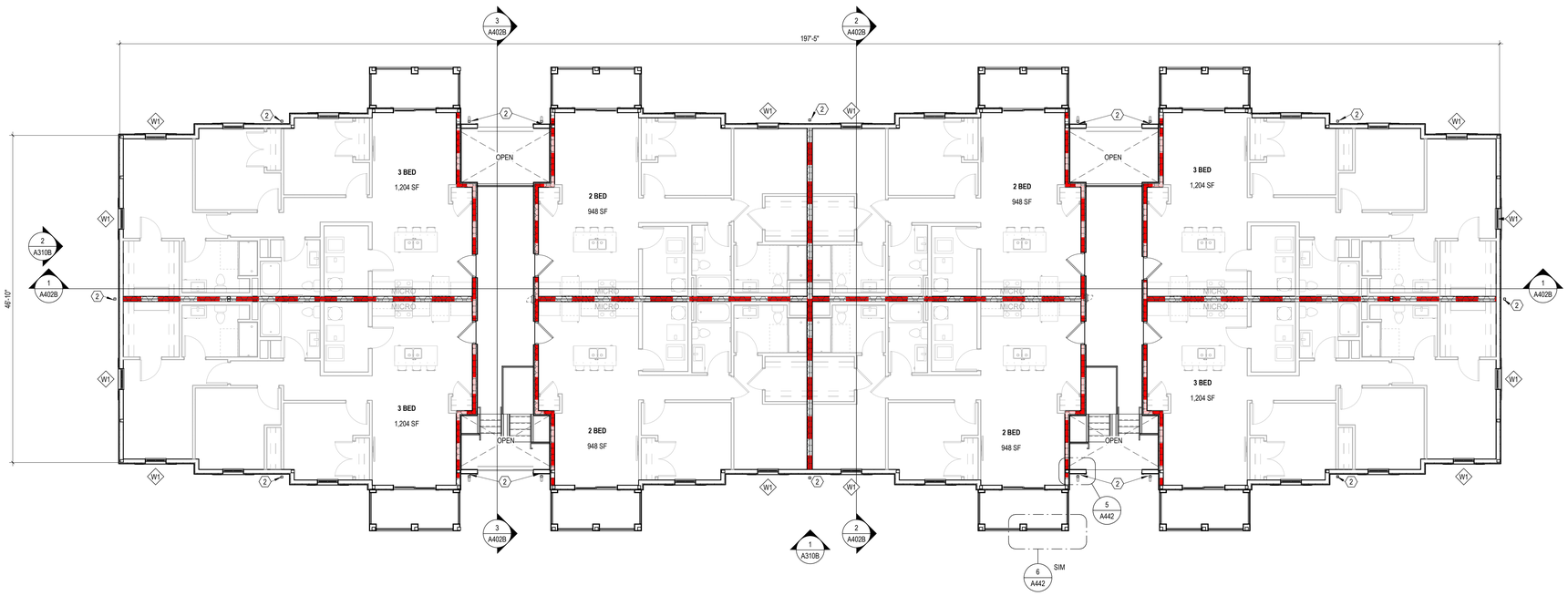


ATTIC AREA (BLDG B)	10,808 SF
TOTAL FREE AREA OF VENTILATION	10,808 / 150 = 72.05 SF OR 10,376 SI
REQUIRED EXHAUST (RIDGE VENT)	10,376 / 2 = 5,188 SI
REQUIRED INTAKE (SOFFIT)	10,376 / 2 = 5,188 SI
MIN. RIDGE VENT LENGTH	5,188 / 18 SI PER FT = 288 FT (293 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	469 LINEAR FT X 1'-3" SOFFIT DEPTH = 586 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT	5,188 / 586 = 8.9 SI / FT

2 PLAN ROOF PLAN - BUILDING B
1/8" = 1'-0"



SEE 1ST FL PLAN FOR DIMENSIONS

1 PLAN LEVEL 03 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMINENSIONS TO FACE OF FINISH WALL.

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(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWN SPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
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GENERAL NOTES - ROOF PLAN

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(X) CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINIUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

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FOR
CMHA

Moody Nolan
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DRAWING TITLE:
BUILDING B - LEVEL 03 & ROOF PLANS

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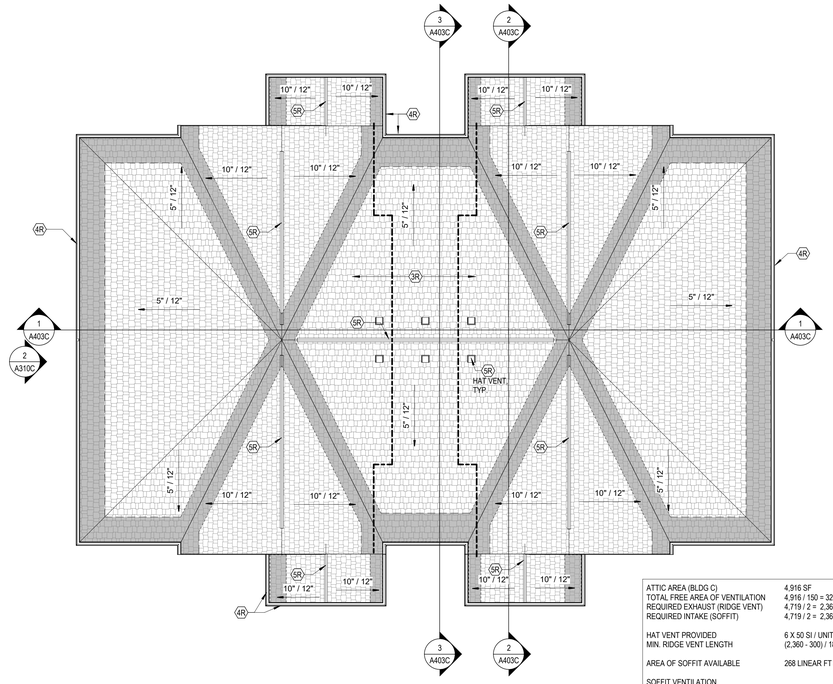
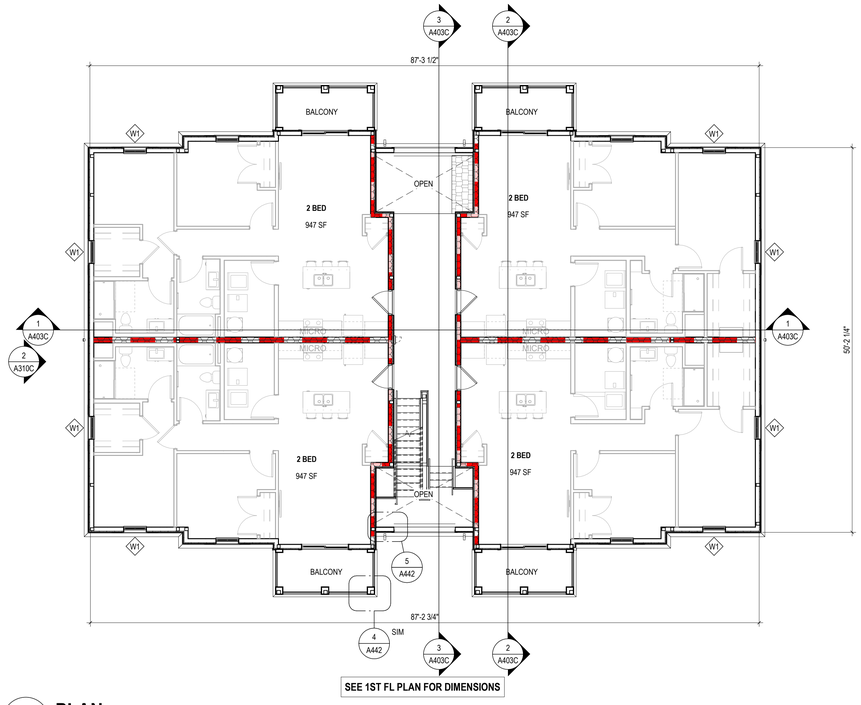


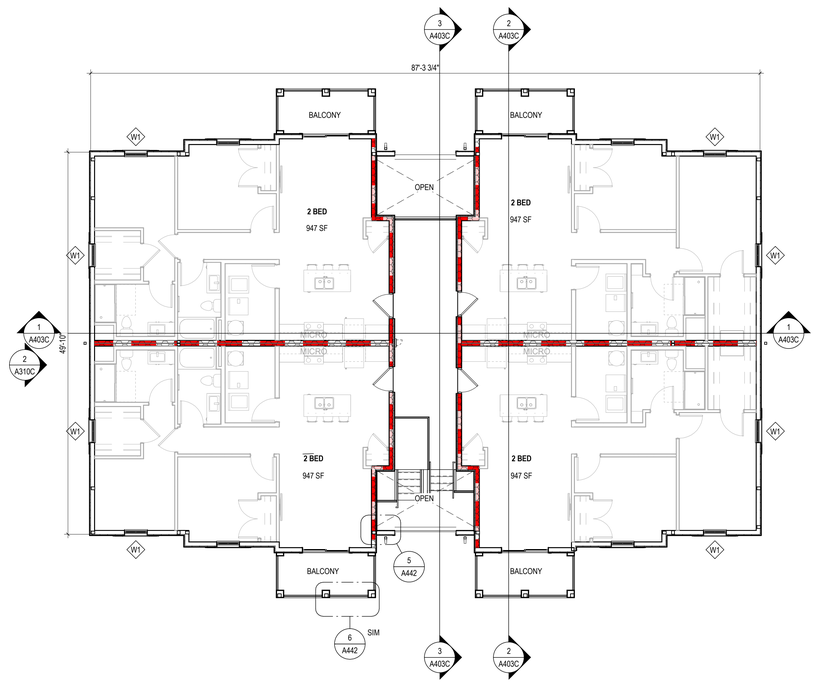
ATTIC AREA (BLDG C)	4,916 SF
TOTAL FREE AREA OF VENTILATION	4,916 / 150 = 32.77 SF OR 4,719 SI
REQUIRED EXHAUST (RIDGE VENT)	4,719 / 2 = 2,360 SI
REQUIRED INTAKE (SOFFIT)	4,719 / 2 = 2,360 SI
HAT VENT PROVIDED	6 X 50 SI / UNIT = 300 SI
MIN. RIDGE VENT LENGTH	(2,360 - 300) / 18 SI PER FT = 114 FT (123.5 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	268 LINEAR FT X 1'-3" SOFFIT DEPTH = 335 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT	2,360 / 335 = 7 SI / FT

4 PLAN ROOF PLAN - BUILDING C
1/8" = 1'-0"



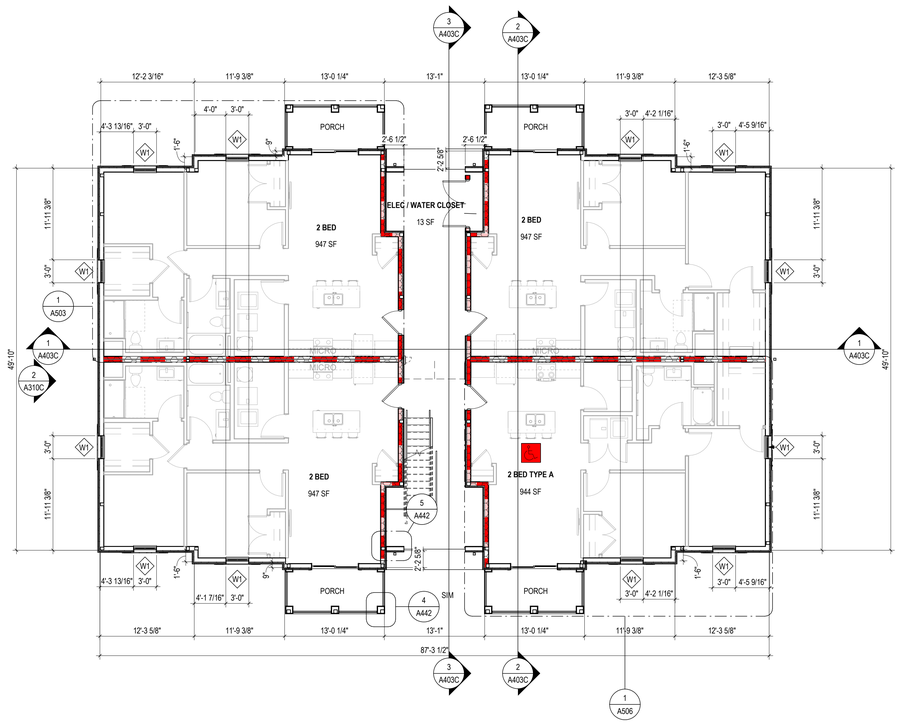
SEE 1ST FL PLAN FOR DIMENSIONS

2 PLAN LEVEL 02 - FLOOR PLAN - BUILDING C
1/8" = 1'-0"



SEE 1ST FL PLAN FOR DIMENSIONS

3 PLAN LEVEL 03 - FLOOR PLAN - BUILDING C
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOOR PLAN - BUILDING C
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMINENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

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(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWN SPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

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- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
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(X) CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 01, 02, 03 FLOOR / ROOF PLANS

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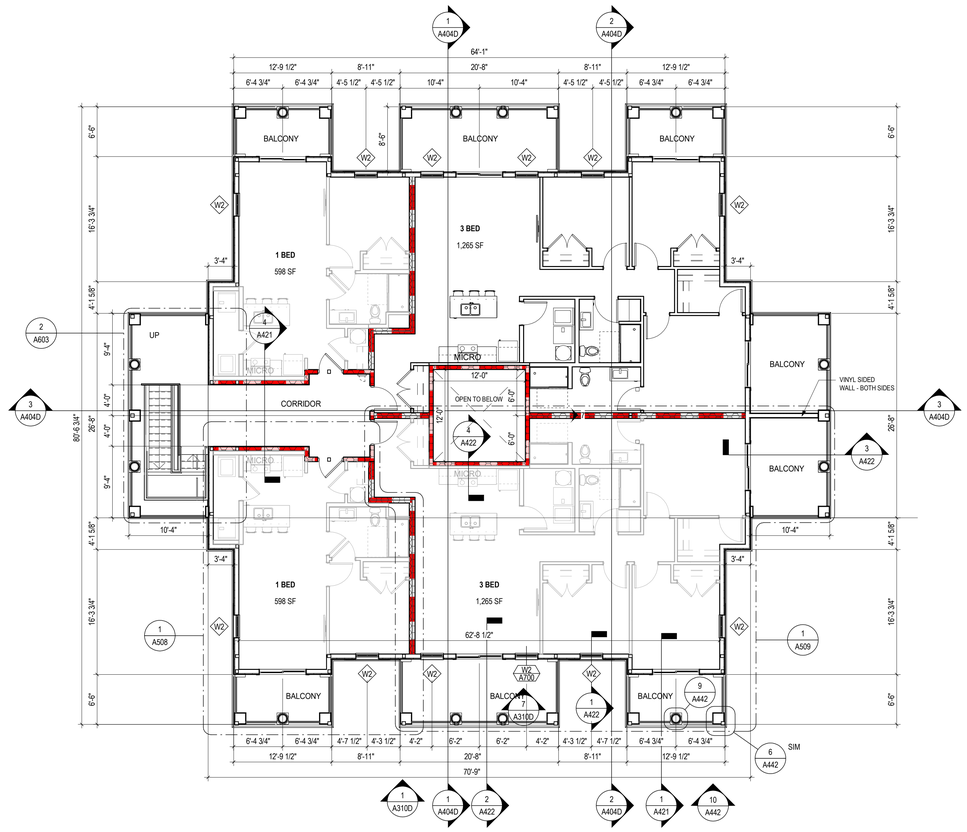
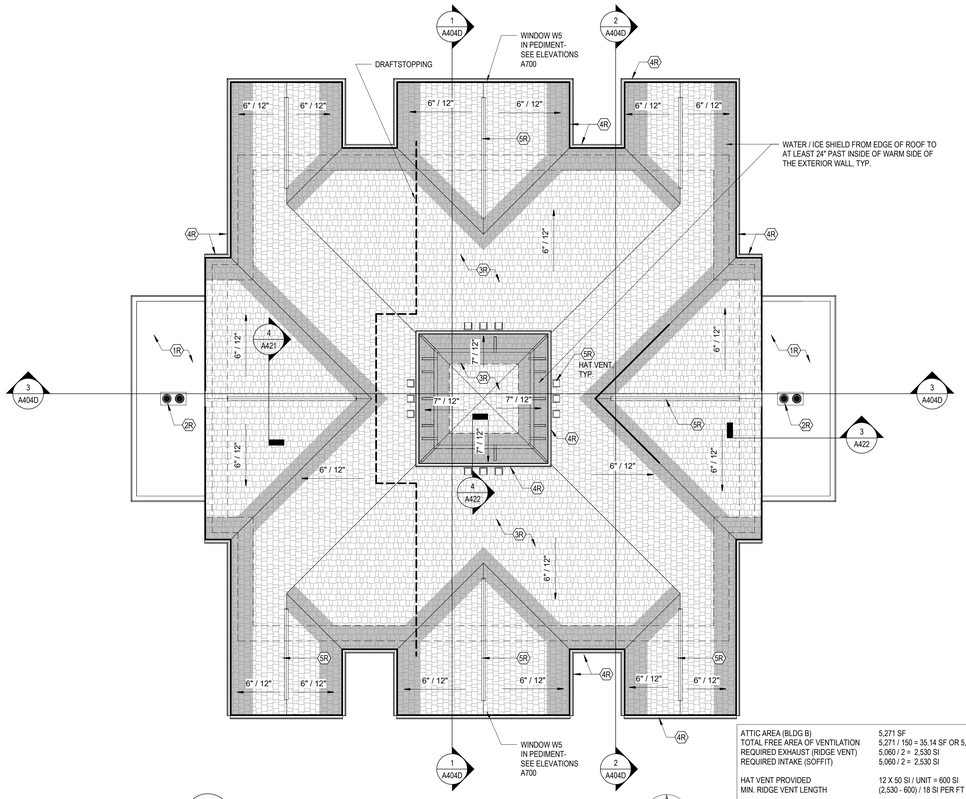
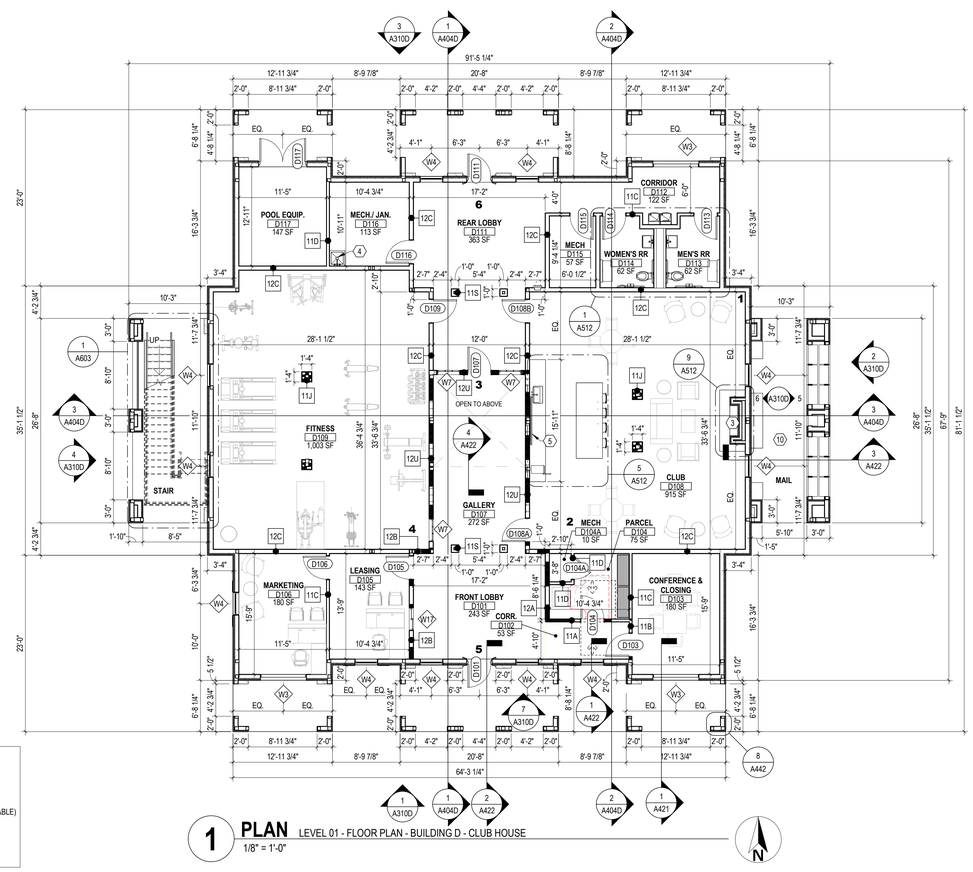


2 **PLAN** LEVEL 02 - FLOOR PLAN - BUILDING D - CLUBHOUSE
1/8" = 1'-0"



3 **PLAN** ROOF PLAN - BUILDING D - CLUBHOUSE
1/8" = 1'-0"

ATTIC AREA (BLDG B)	5,271 SF
TOTAL FREE AREA OF VENTILATION	5,271 / 150 = 35.14 SF OR 5,060 SI
REQUIRED EXHAUST (RIDGE VENT)	5,060 / 2 = 2,530 SI
REQUIRED INTAKE (SOFFIT)	5,060 / 2 = 2,530 SI
HAT VENT PROVIDED	12 X 50 SI / UNIT = 600 SI
MIN. RIDGE VENT LENGTH	(2,530 - 600) / 18 SI PER FT = 107 FT (117 SF AVAILABLE)
AREA OF SOFFIT AVAILABLE	379 LINEAR FT X 1'-3" SOFFIT DEPTH = 474 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT	2,530 / 474 = 5.3 SI / FT



1 **PLAN** LEVEL 01 - FLOOR PLAN - BUILDING D - CLUB HOUSE
1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

E. OFFSET STUDS AND/ OR SHIM AS REQUIRED TO ALIGN FINISH MATERIALS.

F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).

(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. CUPOLA ABOVE.
3. PRE-MANUFACTURED VENT-FREE GAS FIREPLACE, PER MANUFACTURER'S SPECIFICATIONS (BASED ON ARTISAN AVFL42 BY MONESSEN).
4. MOP SINK - REFER TO PLUMBING DRAWINGS.
5. LCD TV DISPLAY - COORDINATE MOUNTING HEIGHT WITH OWNER.
6. PANELIZED WALL MIRROR - COORDINATE SIZE AND MOUNTING HEIGHT WITH OWNER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MOUNTING REQUIREMENTS.
7. WHITE BOARD - COORDINATE SIZE AND MOUNTING HEIGHT WITH OWNER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MOUNTING REQUIREMENTS.
8. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
9. FITNESS EQUIPMENT BY OWNER - SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS.
10. FLOOR-MOUNTED CLUSTER BOX UNIT (1 MAILBOXE PER UNIT x 220 UNITS) 220 MAILBOXES TOTAL.

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

(X) CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTICE VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING D - FLOOR & ROOF PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A106D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 3:41:14 PM
FILE INFO: /Autodesk Docs/23446_CMHA Refugee Rd Housing D/print - R23/23446_CMHA Refugee Rd Housing D_Central - R23_ARCH_R23.rvt

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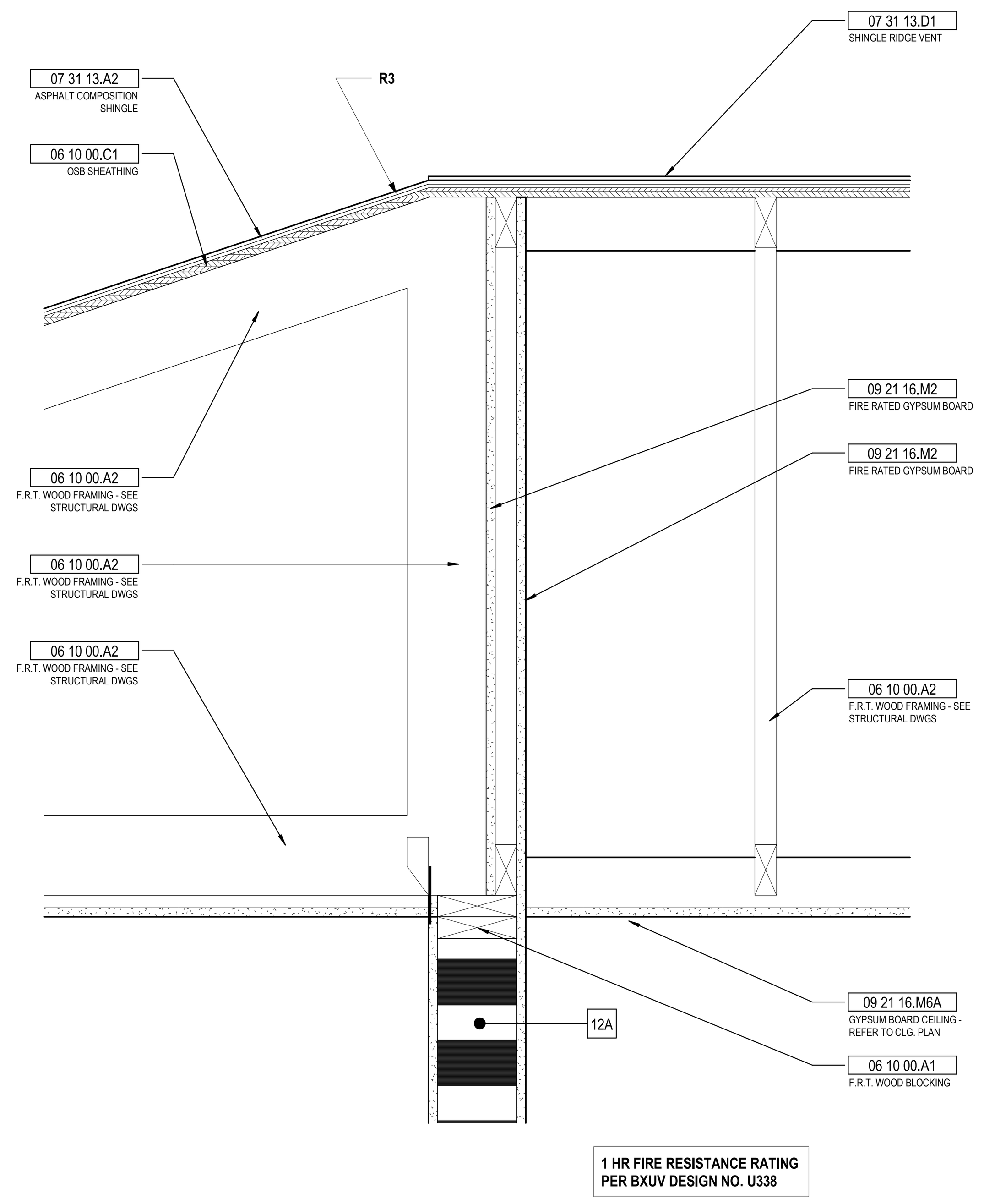
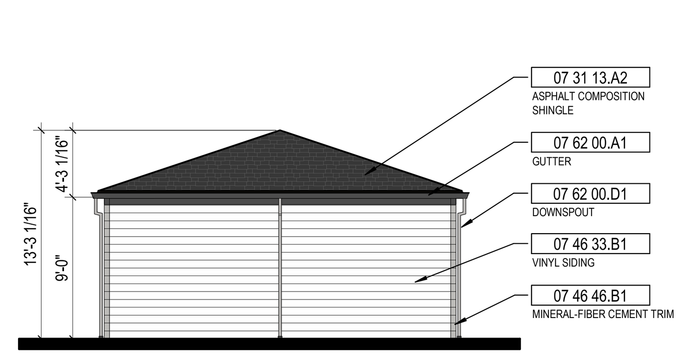
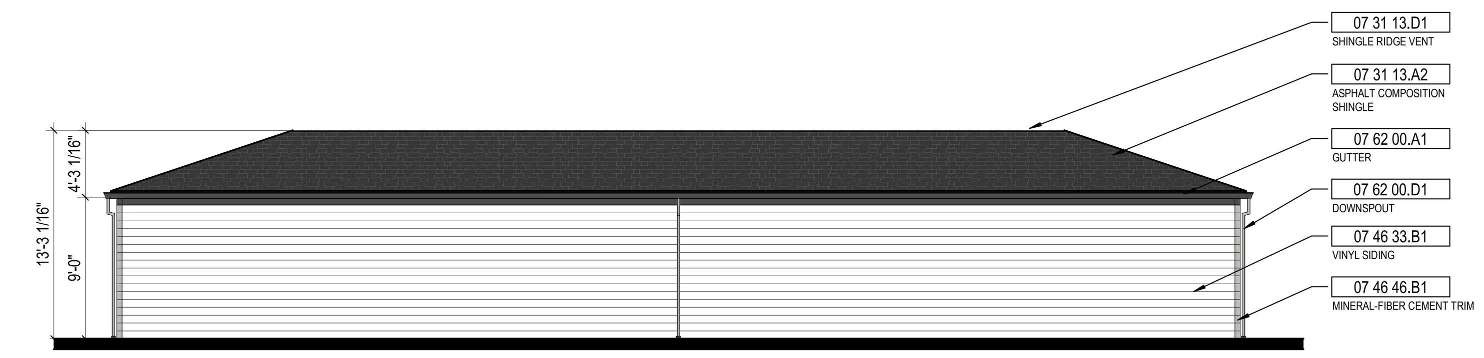


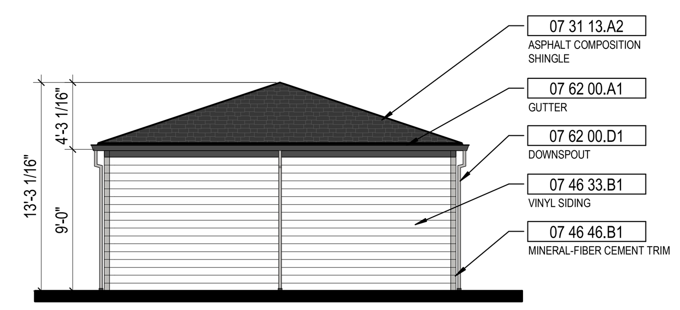
15 DETAIL GARAGE BLDG. INTERIOR WALL HEAD - SECTION
1 1/2" = 1'-0" REF: 8 / A110G



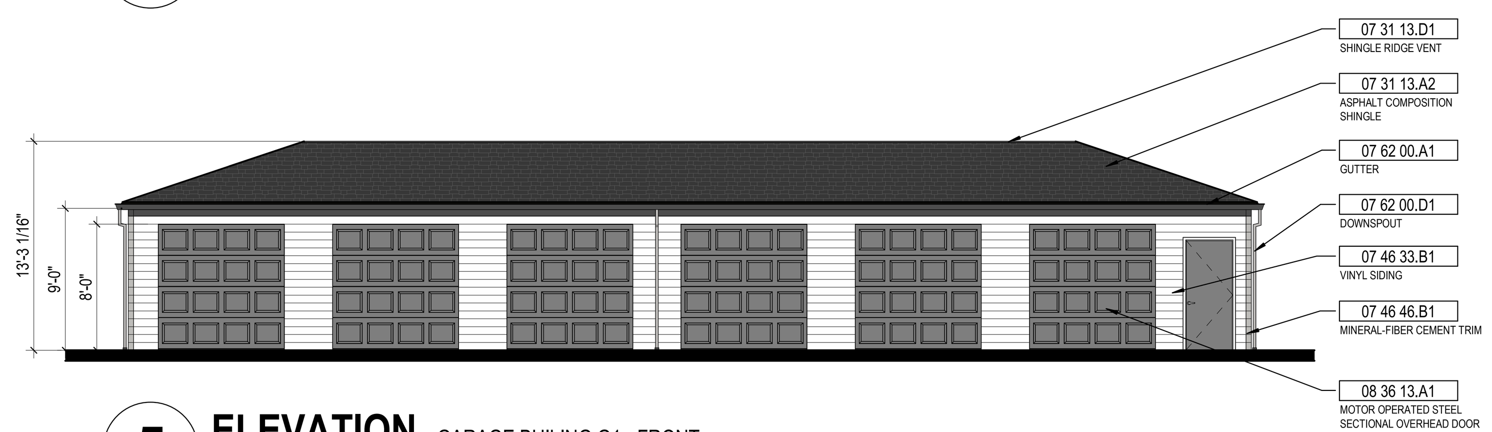
11 ELEVATION GARAGE BUILDING G1 - RIGHT
1/8" = 1'-0" REF: 1 / A110G



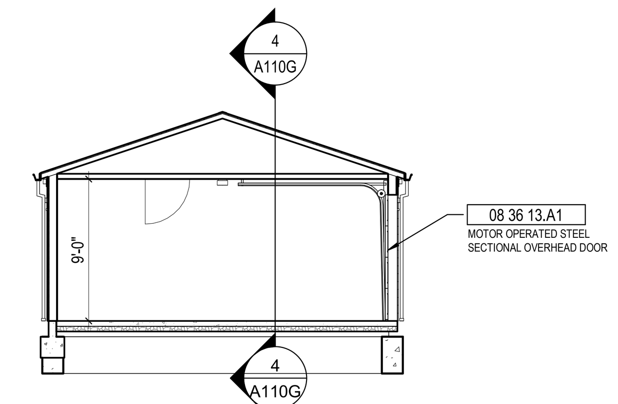
6 ELEVATION GARAGE BUILDING G1 - REAR
1/8" = 1'-0" REF: 1 / A110G



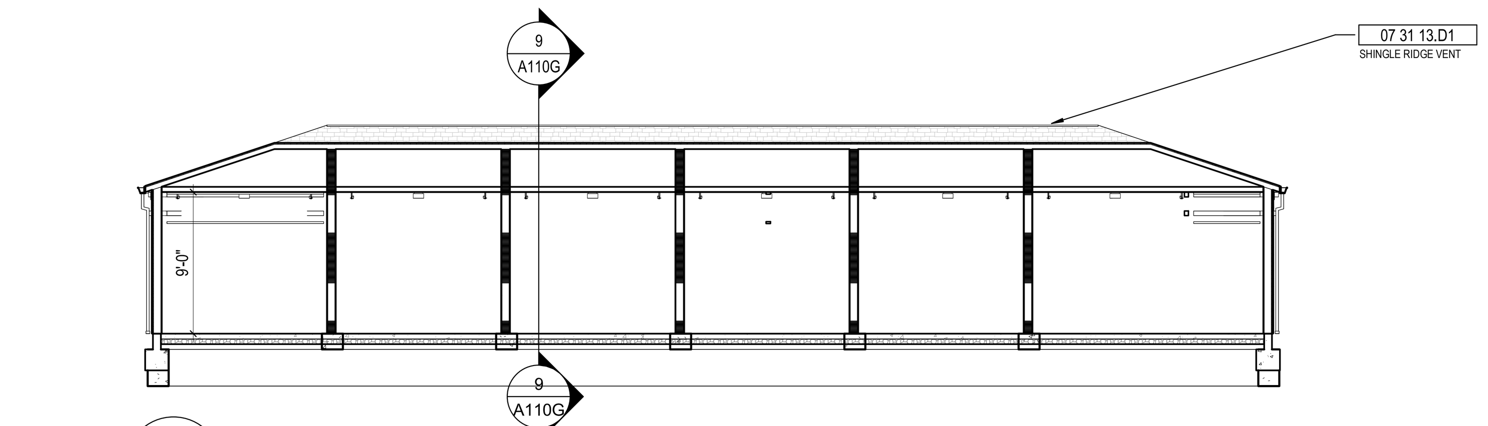
10 ELEVATION GARAGE BUILDING G1 - LEFT
1/8" = 1'-0" REF: 1 / A110G



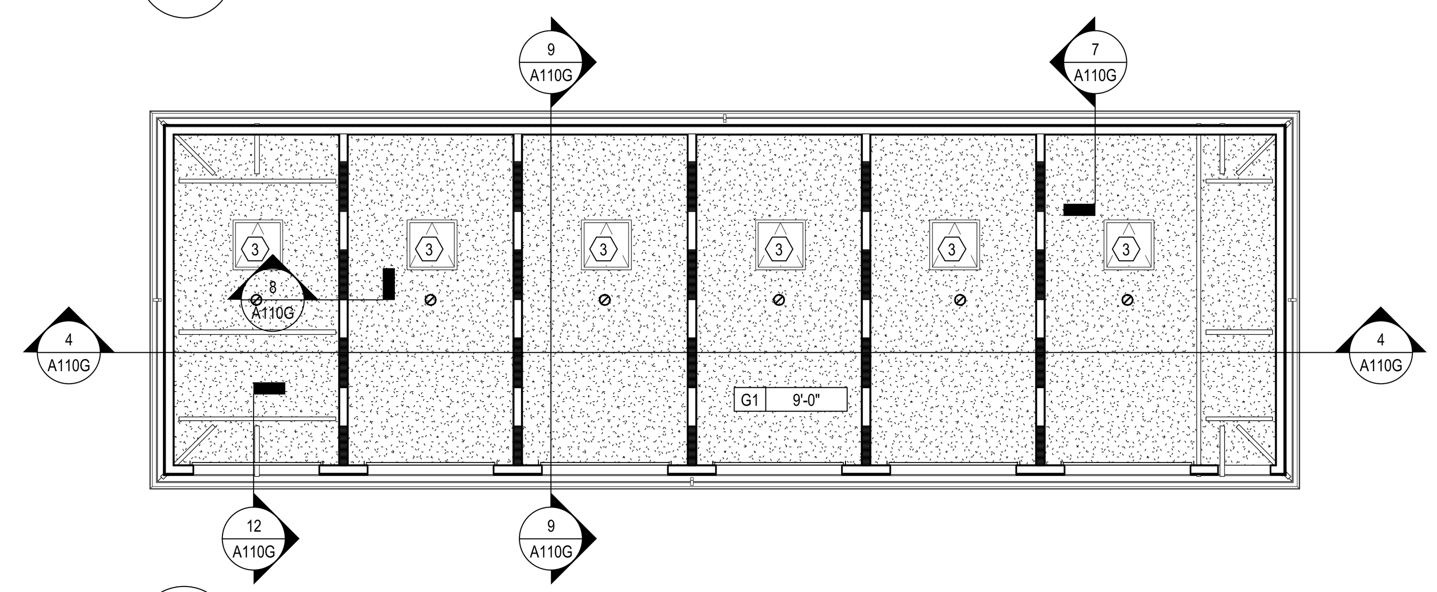
5 ELEVATION GARAGE BUILING G1 - FRONT
1/8" = 1'-0" REF: 1 / A110G



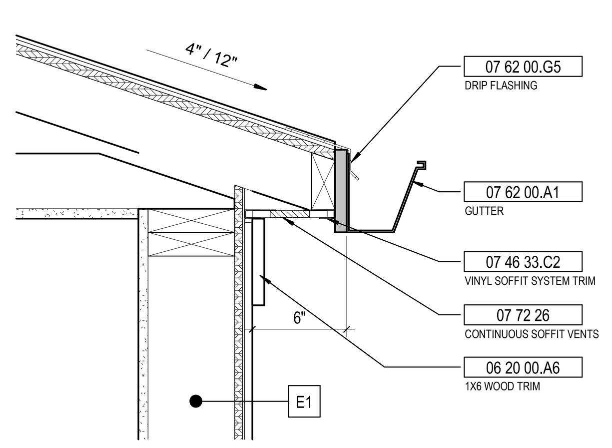
9 SECTION GARAGE BUILDING G1 - TRANSVERSAL
1/8" = 1'-0" REF: 1 / A110G



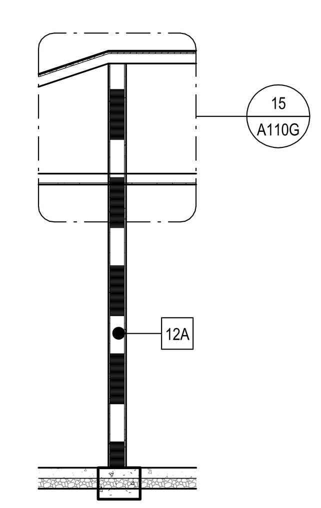
4 SECTION GARAGE BUILDING G1 - LONGITUDINAL
1/8" = 1'-0" REF: 1 / A110G



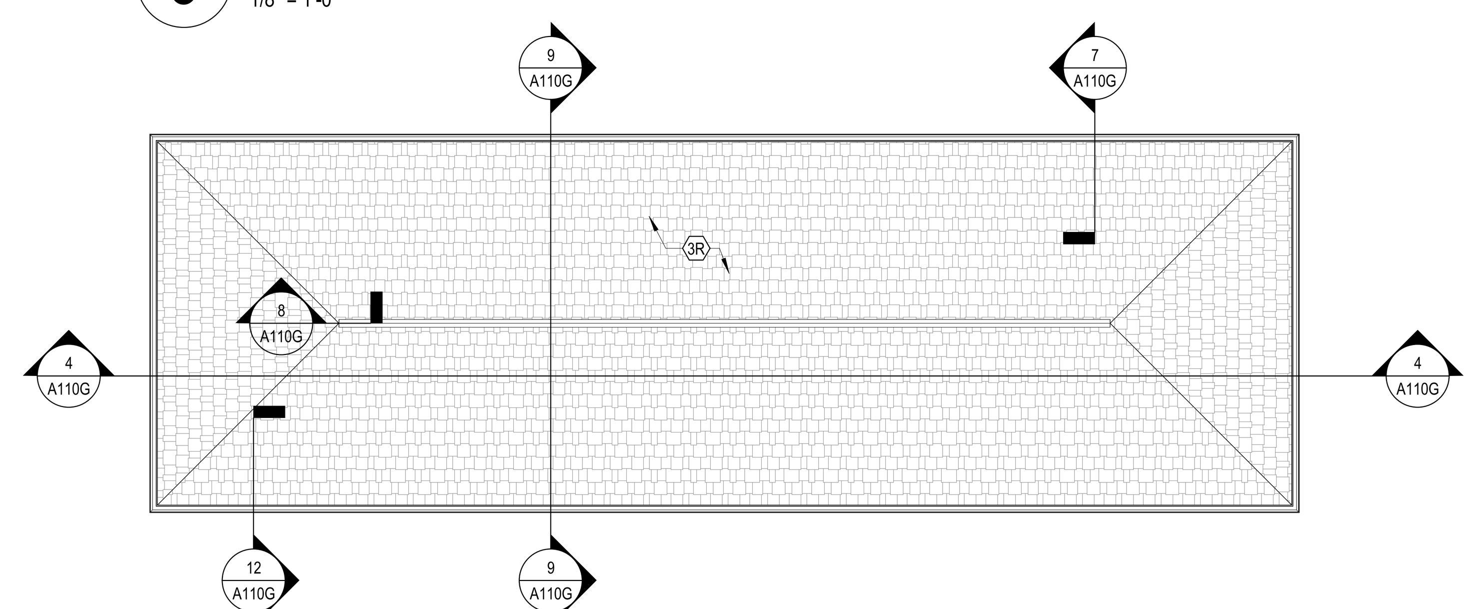
3 RCP LEVEL 01 - RCP - GARAGE BUILDING G1
1/8" = 1'-0"



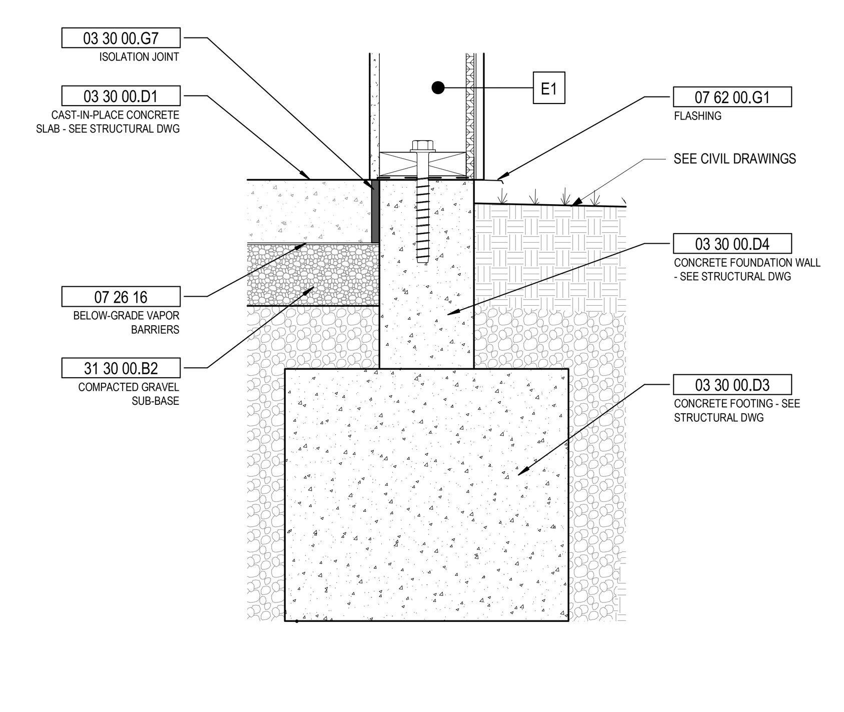
14 DETAIL GARAGE BLDG. ROOF EDGE - TYP. SECTION
1 1/2" = 1'-0" REF: 7 / A110G



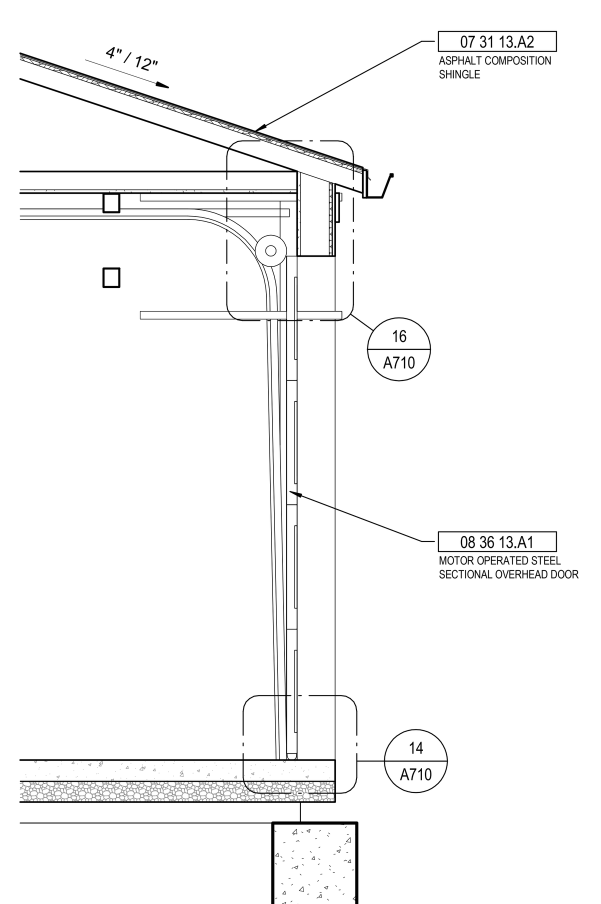
8 SECTION GARAGE BLDG. INTERIOR WALL
1/4" = 1'-0" REF: 1 / A104-G



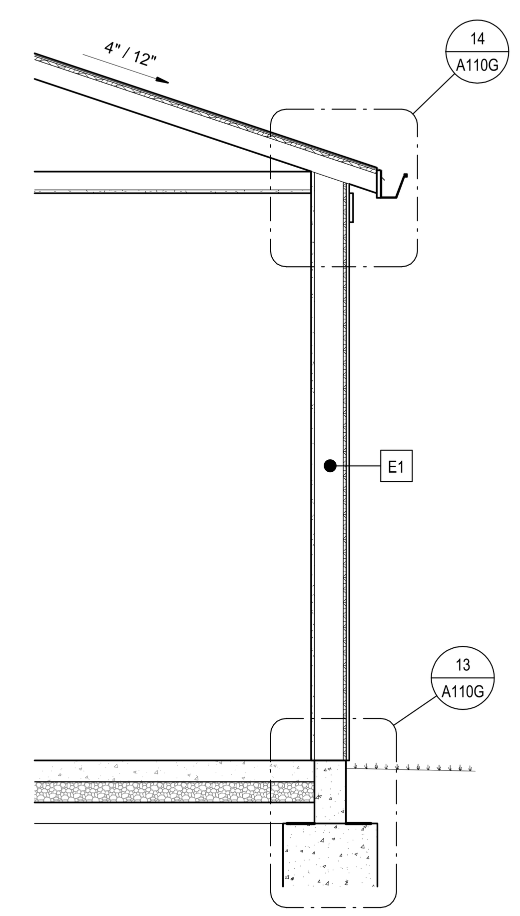
2 PLAN ROOF PLAN - GARAGE BUILDING G1
1/8" = 1'-0"



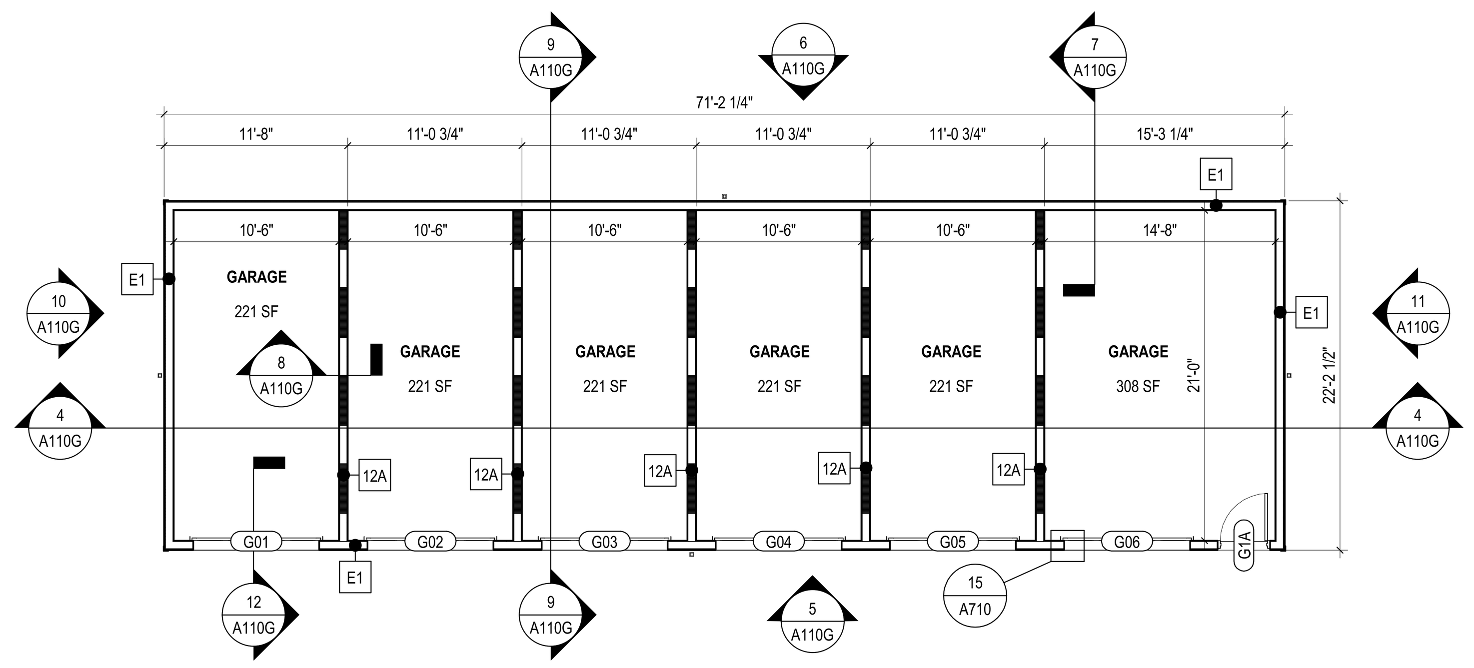
13 DETAIL GARAGE BLDG. WALL BASE - TYP. SECTION
1 1/2" = 1'-0" REF: 7 / A110G



12 SECTION GARAGE BLDG. AT OH DOOR - TYP.
1/2" = 1'-0" REF: 1 / A110G



7 SECTION GARAGE BLDG. WALL - TYP.
1/2" = 1'-0" REF: 1 / A110G



1 PLAN LEVEL 01 - FLOOR PLAN - GARAGE BUILDING G1
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

G1 GYPSUM BOARD CEILING OR SOFFIT

VINYL SOFFIT - EXTERIOR, VENTED

2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)

2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)

1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)

1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)

OR OR — RECESSED CAN LIGHT

SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)

SURFACE MOUNTED LIGHT FIXTURE (UNIT)

PENDANT LIGHT FIXTURE

LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE

WALL MOUNTED VANITY LIGHT FIXTURE

CEILING FAN

CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW

WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)

EXIT LIGHT

SUPPLY DIFFUSER

LINEAR DIFFUSER

EXHAUST/RETURN GRILLE

XX XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

GENERAL NOTES - EXTERIOR ELEVATIONS

A. X

EXTERIOR GLAZING TYPES

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03 30 00.D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
03 30 00.D3	CONCRETE FOOTING - SEE STRUCTURAL DWG
03 30 00.D4	CONCRETE FOUNDATION WALL - SEE STRUCTURAL DWG
03 30 00.G7	ISOLATION JOINT
06 10 00.A1	F.R.T. WOOD BLOCKING
06 10 00.A2	F.R.T. WOOD FRAMING - SEE STRUCTURAL DWGS
06 10 00.C1	OSB SHEATHING
06 20 00.A6	1X6 WOOD TRIM
07 26 16	BELOW-GRADE VAPOR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.D1	SHINGLE RIDGE VENT
07 46 33.B1	VINYL SIDING
07 46 33.C2	VINYL SOFFIT SYSTEM TRIM
07 46 46.B1	MINERAL-FIBER CEMENT TRIM
07 62 00.A1	GUTTER
07 62 00.D1	DOWNSPOUT
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
07 72 26	CONTINUOUS SOFFIT VENTS
08 36 13.A1	MOTOR OPERATED STEEL SECTIONAL OVERHEAD DOOR
09 21 16.M2	FIRE RATED GYPSUM BOARD
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN
31 30 00.B2	COMPACTED GRAVEL SUB-BASE

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

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F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).

K. SEE SHEET G010G FOR GARAGE BUILDING ASSEMBLIES SCHEDULE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.

RATED WALL LEGEND

1 HOUR FIRE RATED PARTITION TO DECK.

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINIUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTICE VENTILATION. PROVIDE SHOP DRAWIING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
GARAGE BUILDING G1 & TYP. DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A110G
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 3:40:49 PM
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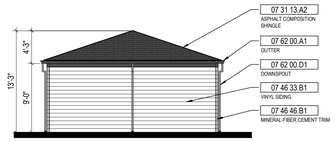
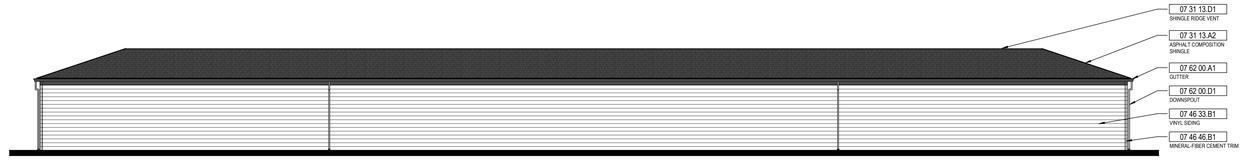
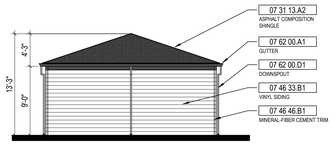


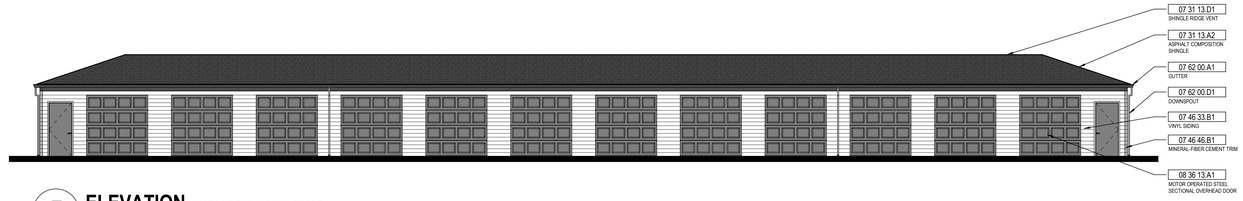
9 ELEVATION GARAGE BUILDING G2 - RIGHT
1/8" = 1'-0" REF: 1 / A111G



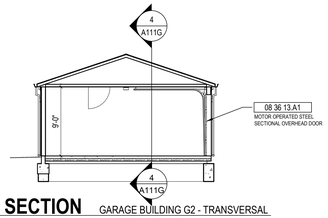
6 ELEVATION GARAGE BUILDING G2 - REAR
1/8" = 1'-0" REF: 1 / A111G



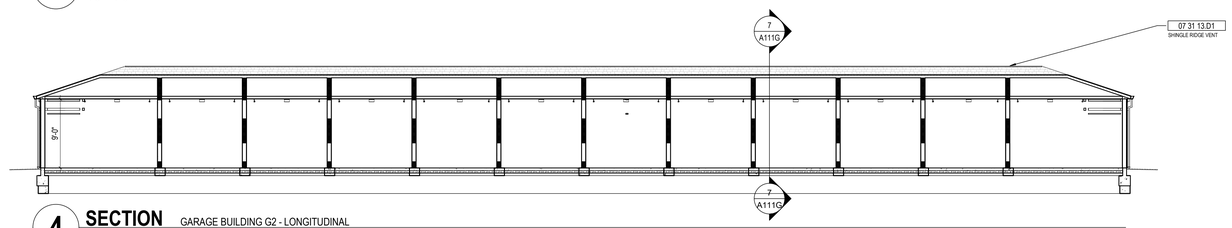
8 ELEVATION GARAGE BUILDING G2 - LEFT
1/8" = 1'-0" REF: 1 / AD100



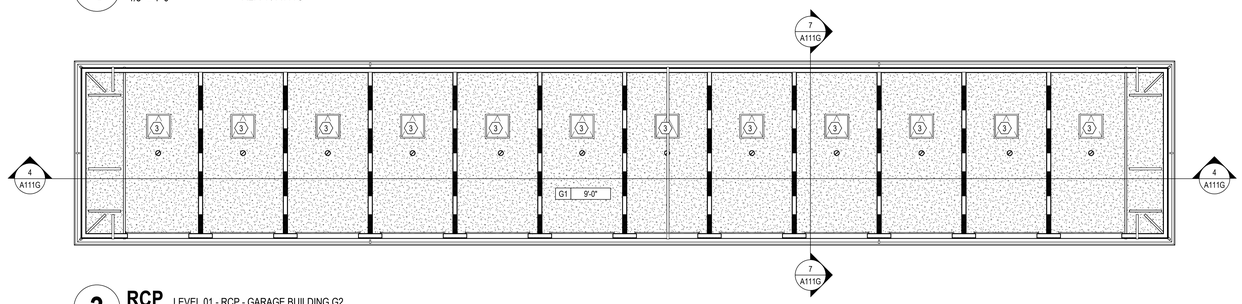
5 ELEVATION GARAGE BUILING G2 - FRONT
1/8" = 1'-0" REF: 1 / A111G



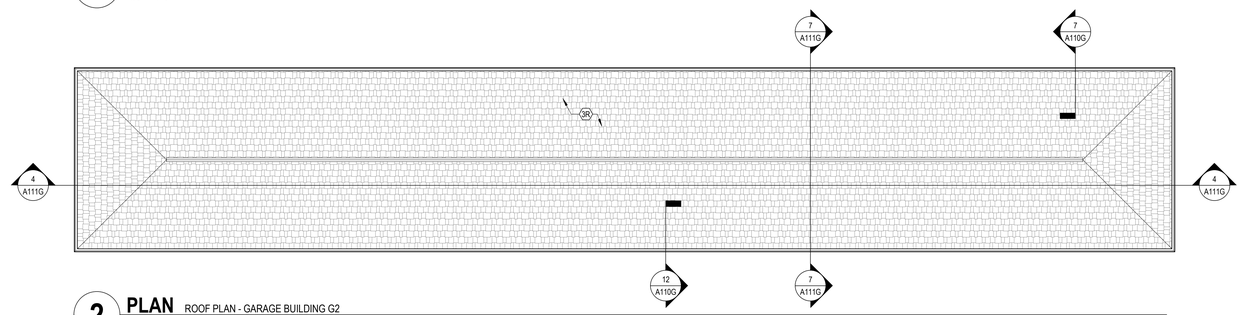
7 SECTION GARAGE BUILDING G2 - TRANSVERSAL
1/8" = 1'-0" REF: 1 / A111G



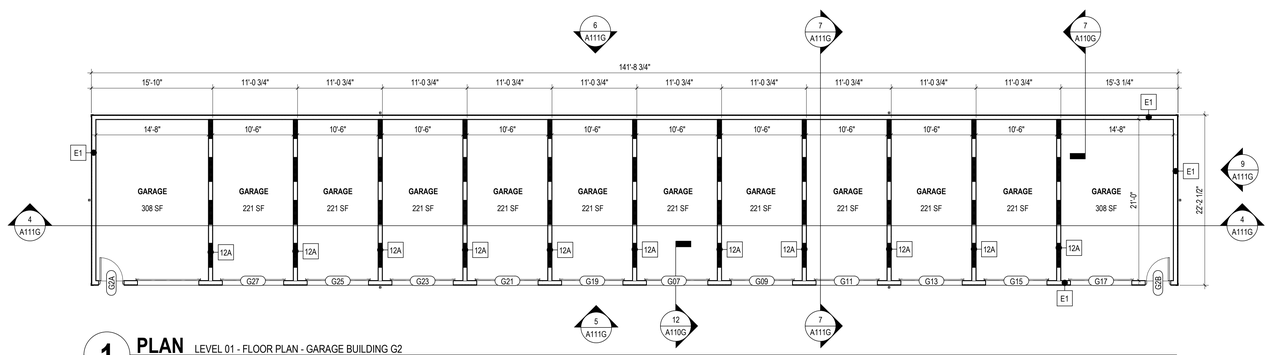
4 SECTION GARAGE BUILDING G2 - LONGITUDINAL
1/8" = 1'-0" REF: 1 / A111G



3 RCP LEVEL 01 - RCP - GARAGE BUILDING G2
1/8" = 1'-0"



2 PLAN ROOF PLAN - GARAGE BUILDING G2
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOOR PLAN - GARAGE BUILDING G2
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- VINYL SOFFIT - EXTERIOR, VENTED
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR — RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING FAN
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

GENERAL NOTES - EXTERIOR ELEVATIONS

A. X

EXTERIOR GLAZING TYPES

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.D1	SHINGLE RIDGE VENT
07 46 33.B1	VINYL SIDING
07 46 46.B1	MINERAL-FIBER CEMENT TRIM
07 62 00.A1	GUTTER
07 62 00.D1	DOWNSPOUT
08 36 13.A1	MOTOR OPERATED STEEL SECTIONAL OVERHEAD DOOR

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

E. OFFSET STUDS AND/ OR SHIM AS REQUIRED TO ALIGN FINISH MATERIALS.

F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).

K. SEE SHEET G010G FOR GARAGE BUILDING ASSEMBLIES SCHEDULE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.

RATED WALL LEGEND

1 HOUR FIRE RATED PARTITION TO DECK.

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.

CODED NOTE LEGEND - ROOF PLAN

1R. *NOT USED.*

2R. *NOT USED.*

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT.

#	DATE	CHANGE DESCRIPTION

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COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
GARAGE BUILDING G2

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A111G

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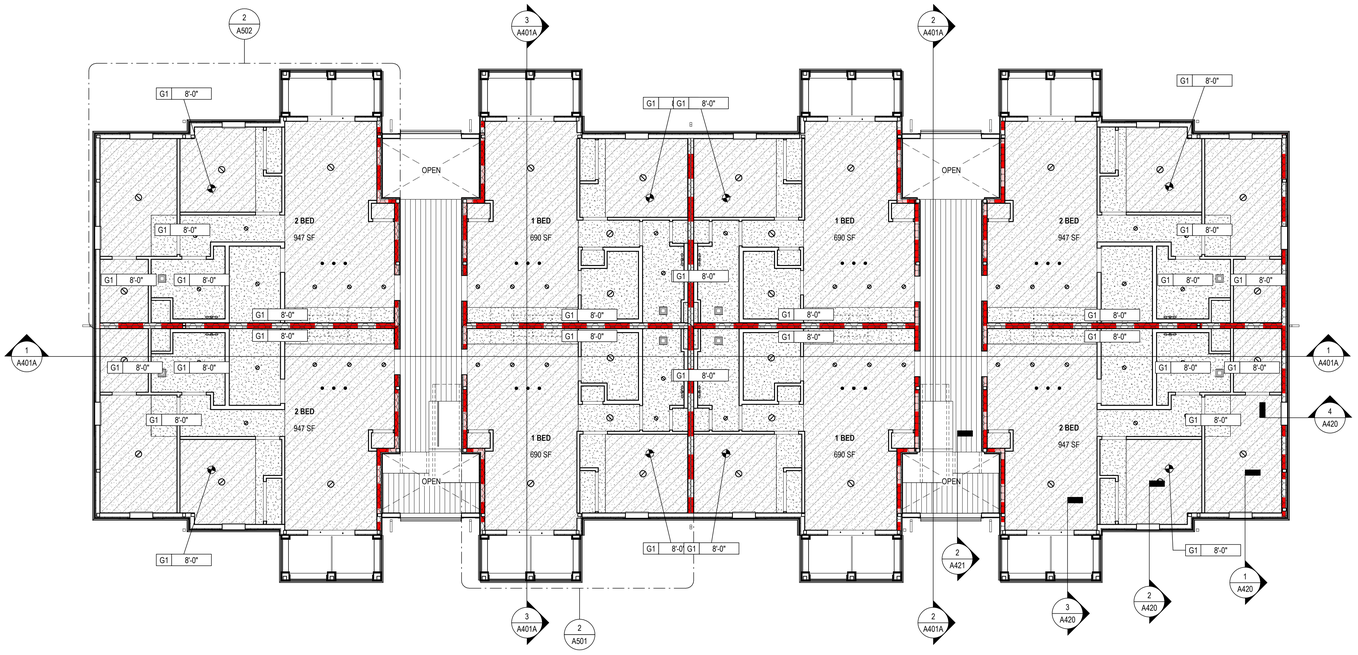
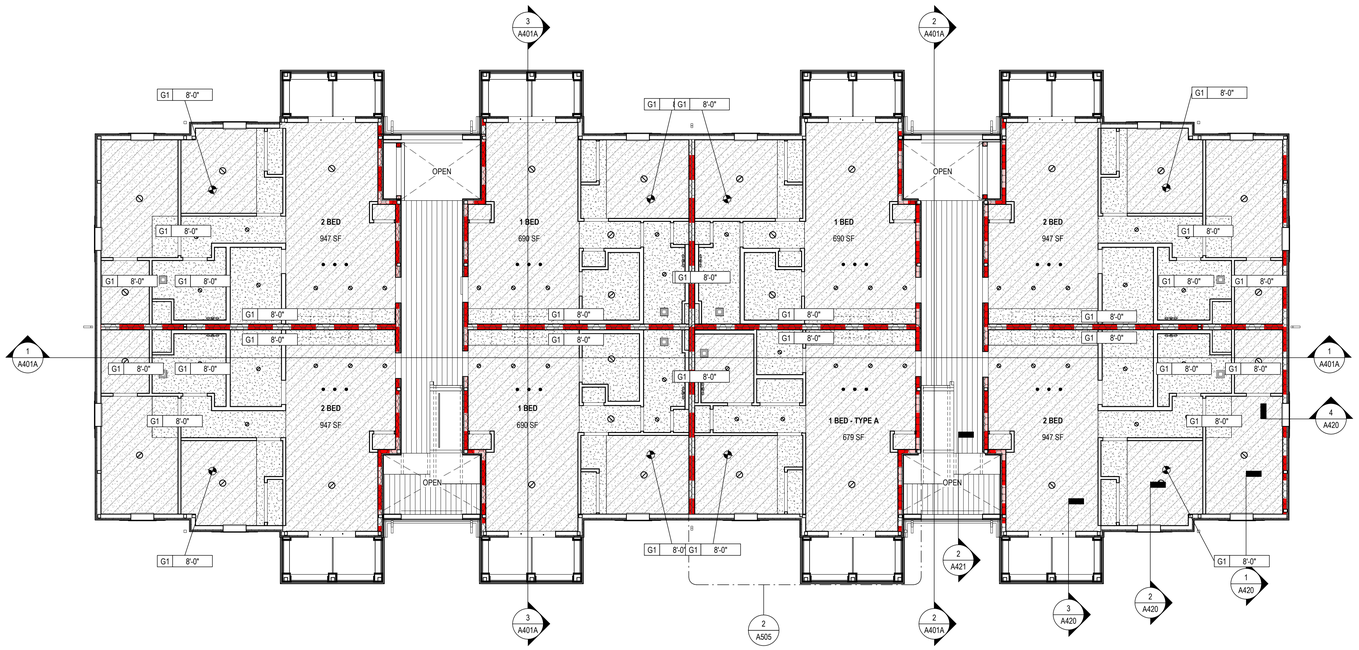


2 **RCP** LEVEL 02 - RCP - BUILDING A
1/8" = 1'-0"



1 **RCP** LEVEL 01 - RCP - BUILDING A
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

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L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

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- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - LEVEL 01 & 02 RCP

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A201A

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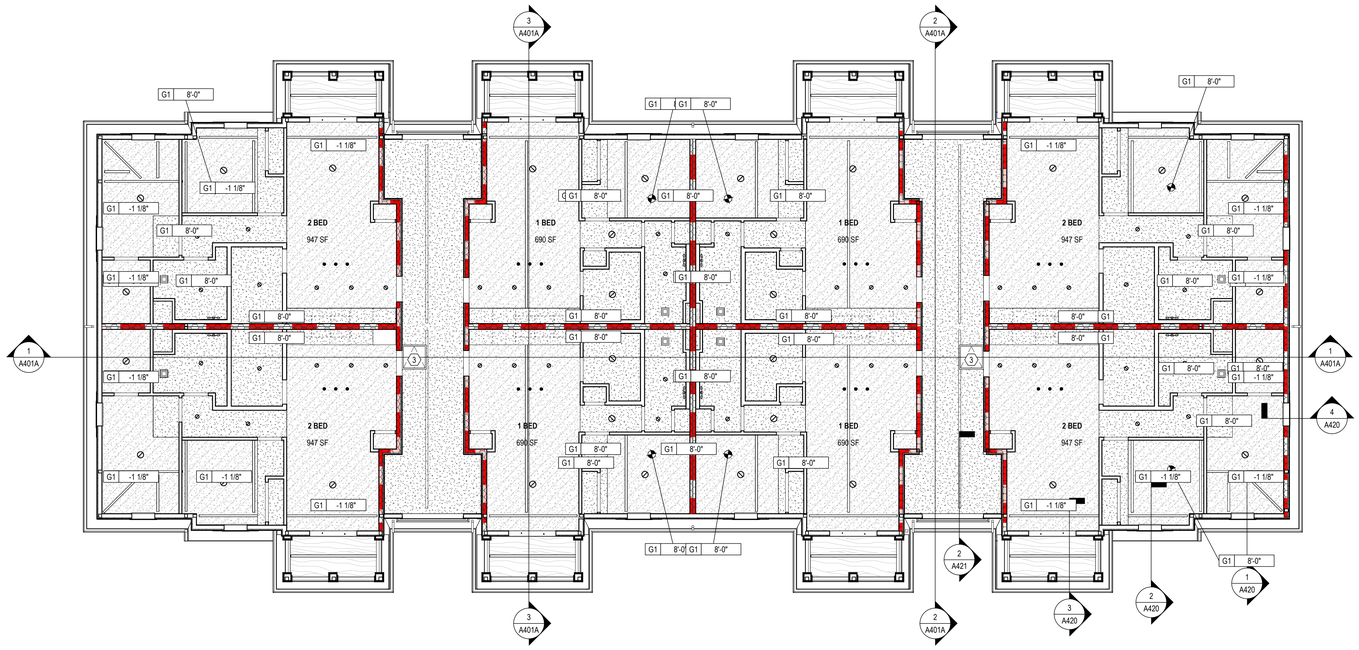

1 **RCP** LEVEL 03 - RCP - BUILDING A
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

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G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x6 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
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- XX XX'-XX" CEILING TAG WITH HEIGHT

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - LEVEL 03 RCP

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2 RCP LEVEL 02 - RCP - BUILDING B
1/8" = 1'-0"

1 RCP LEVEL 01 - RCP - BUILDING B
1/8" = 1'-0"

RCP GENERAL NOTES

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CODED NOTE LEGEND

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2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

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- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
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- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
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- XX XX'-XX" CEILING TAG WITH HEIGHT

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300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING B - LEVEL 01 & 02 RCP

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23446

A203B

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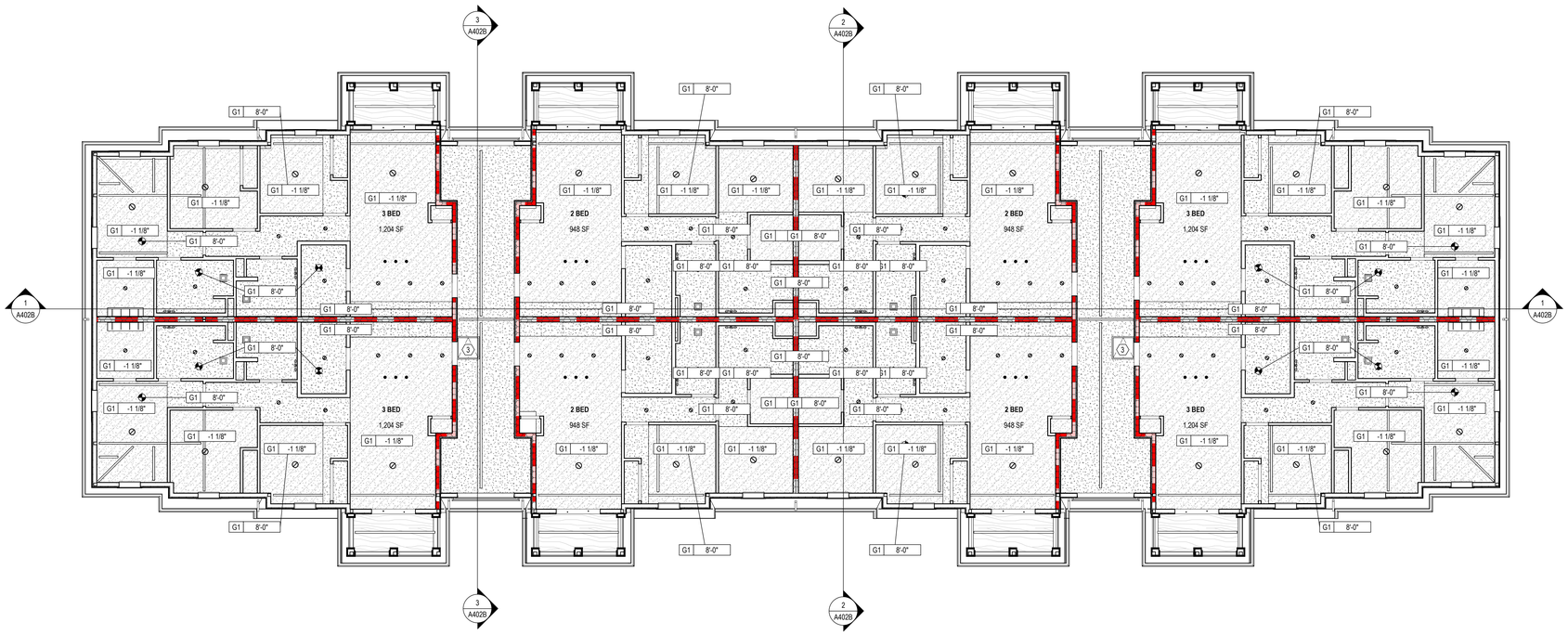

1 **RCP** LEVEL 03 - RCP - BUILDING B
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x6 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR — RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING B - LEVEL 03 RCP

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A204B

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REVIT VERSION: 2023
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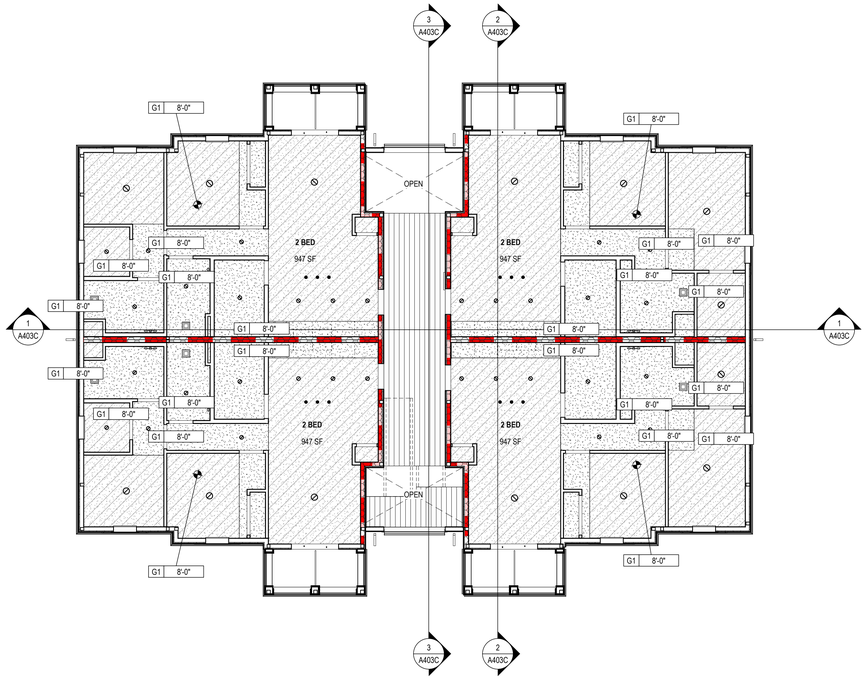
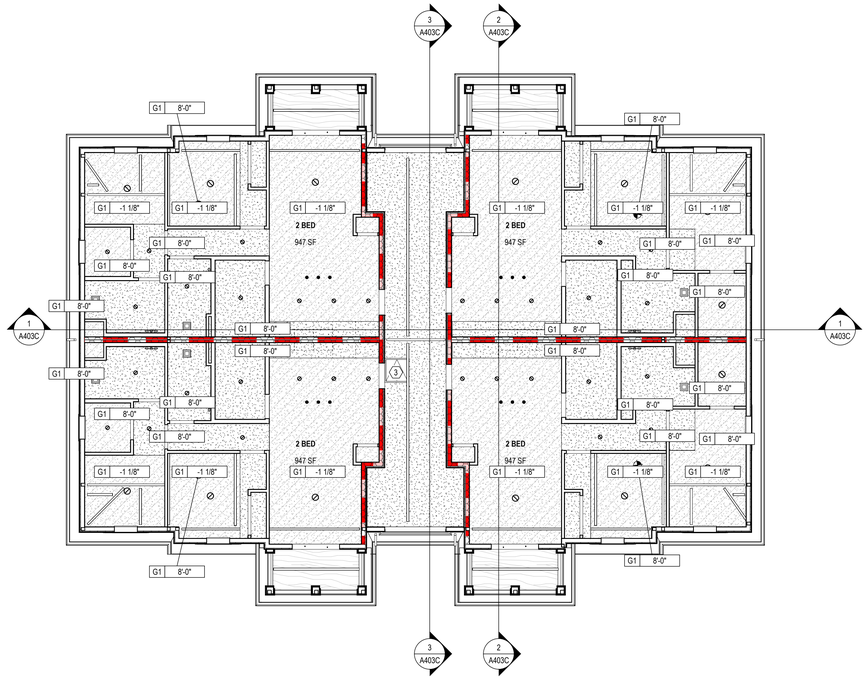


2 RCP LEVEL 02 - RCP - BUILDING C
1/8" = 1'-0"



3 RCP LEVEL 03 - RCP - BUILDING C
1/8" = 1'-0"

1 RCP LEVEL 01 - RCP - BUILDING C
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - LEVEL 01, 02 & 03 RCP

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

A205C

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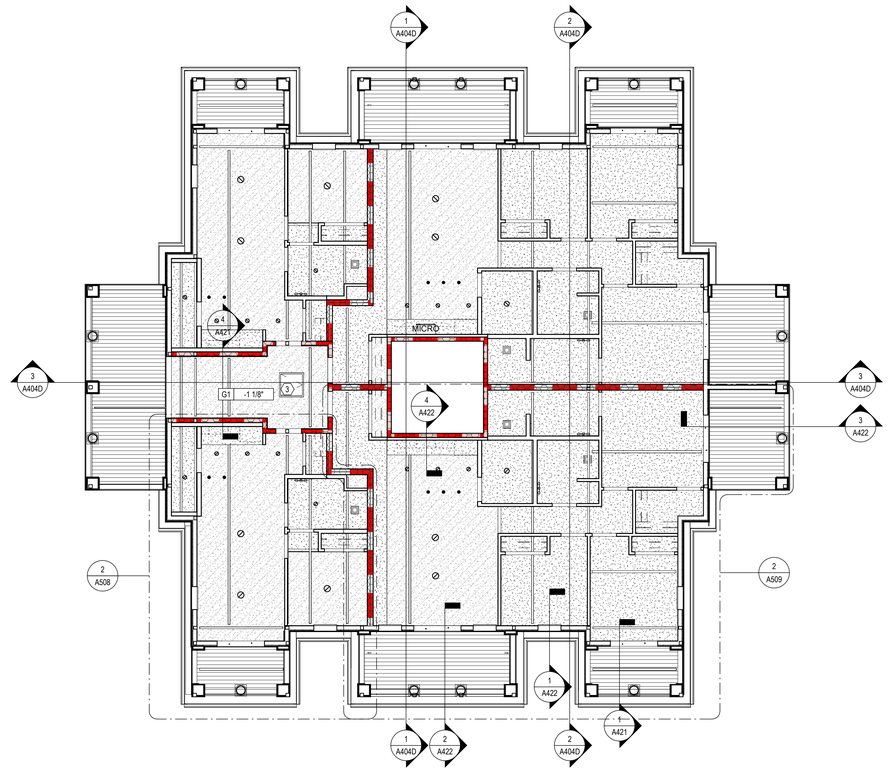
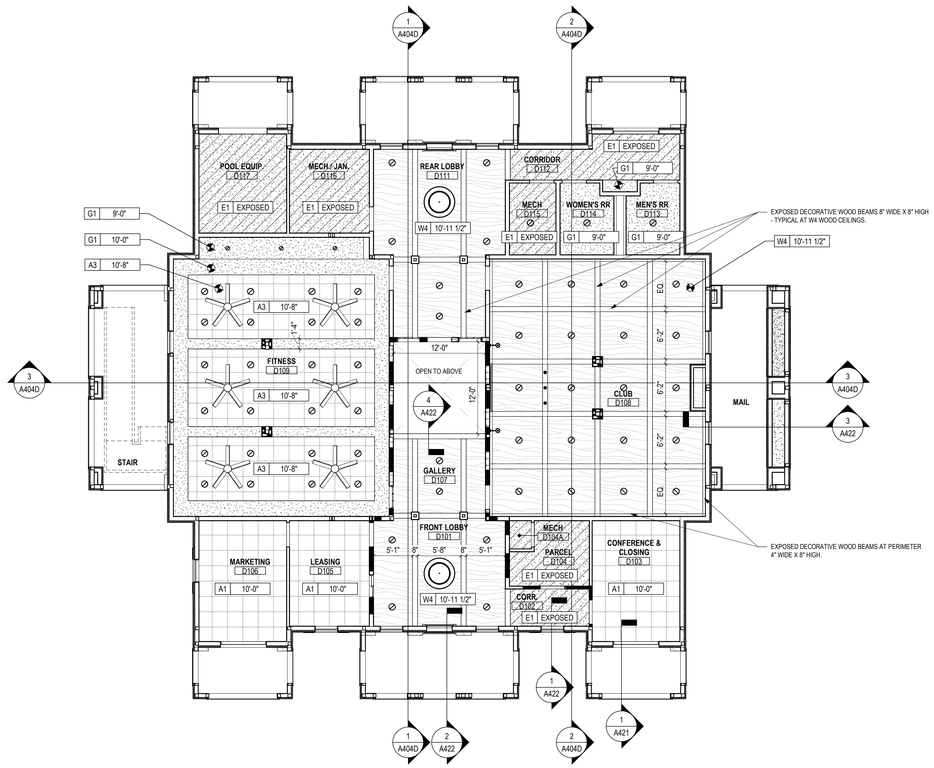


2 RCP LEVEL 02 - RCP - BUILDING D
1/8" = 1'-0"



1 RCP LEVEL 01 - RCP - BUILDING D
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9' 0" AFF UNO.

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G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- A1 ACOUSTICAL CEILING TILE - 2x2, WHITE
- A3 ACOUSTICAL CEILING TILE - 2x2, BLACK
- E1 EXPOSED TO FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- W4 WOOD CEILING
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING FAN
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING D - LEVEL 01 & 02 RCP

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A206D

CD PROGRESS SET

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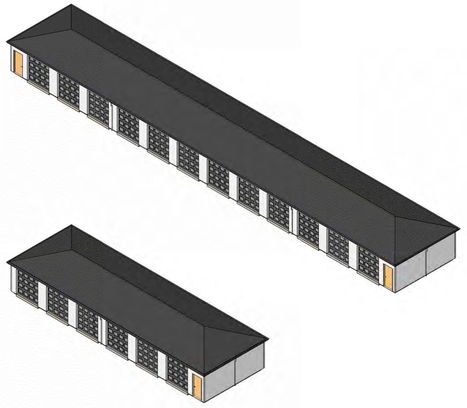

5 **AXONOMETRIC** GARAGE G1 & G2 BUILDINGS

4 **AXONOMETRIC** BUILDING D - CLUBHOUSE

3 **AXONOMETRIC** BUILDING C

2 **AXONOMETRIC** BUILDING B

1 **AXONOMETRIC** BUILDING A

#	DATE	CHANGE DESCRIPTION

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COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

AXONOMETRIC BLDG VIEWS

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05/01/2025

23446

A301

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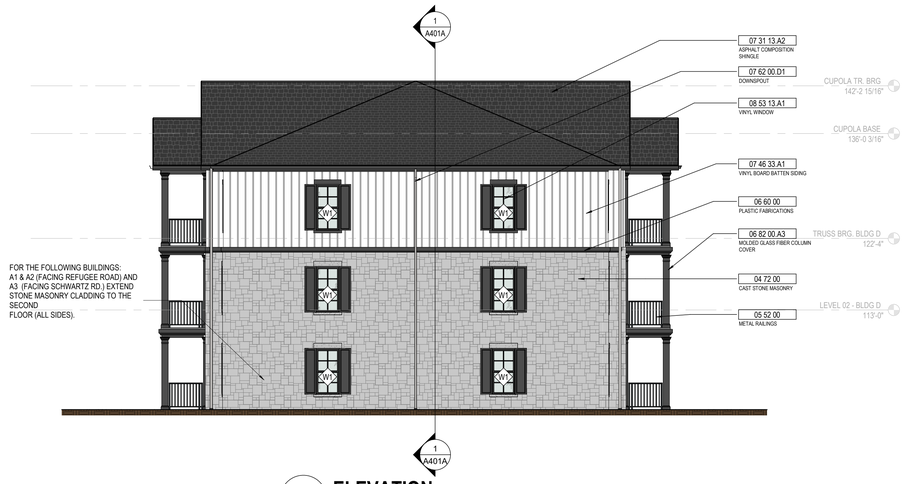


4 ELEVATION BUILDING A - SIDE STREET FACING
1/8" = 1'-0"
REF: 1 / AD100

3 ELEVATION BUILDING A - RIGHT ELEVATION
1/8" = 1'-0"
REF: 1 / A101A

2 ELEVATION BUILDING A FRONT/BACK - STREET FACING
1/8" = 1'-0"
REF: 1 / AD100

1 ELEVATION BUILDING A - FRONT/BACK ELEVATION
1/8" = 1'-0"
REF: 1 / 100-A

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:01:24 PM
FILE INFO: A:\Moody Dropbox\23446_CMHA Refugee Rd Housing Dnprnt - R23\23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

GENERAL NOTES - EXTERIOR ELEVATIONS

1. X

EXTERIOR CODED NOTES

1. X

EXTERIOR LEGEND

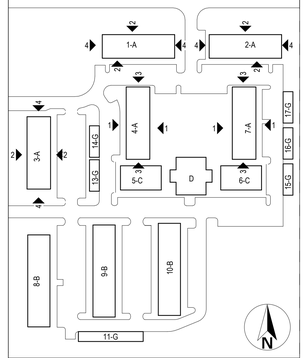
IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 82 00	MOLDED GLASS FIBER FABRICATIONS
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 16 13	FIBERGLASS DOORS
08 53 13.A1	VINYL WINDOW
08 91 20	ROOF GABLE LOUVERS

KEYPLAN



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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A310A
CD PROGRESS SET

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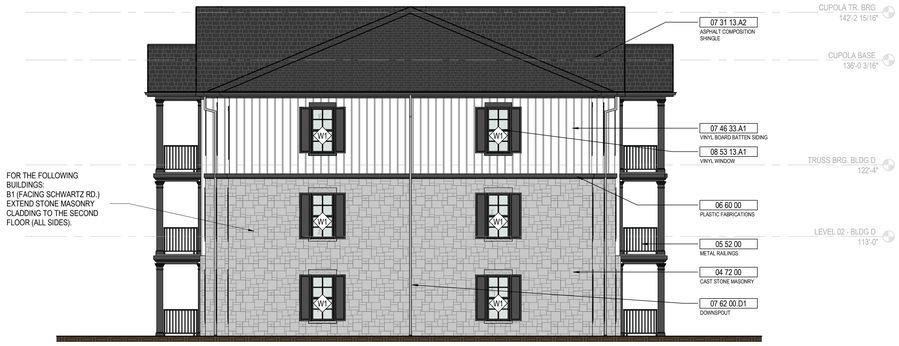


4 ELEVATION BUILDING B - SIDE STREET FACING
1/8" = 1'-0" REF: 1 / AD100

2 ELEVATION BUILDING B - SIDE ELEVATION
1/8" = 1'-0" REF: 1 / A103B

3 ELEVATION BUILDING B FRONT/BACK - STREET FACING
1/8" = 1'-0" REF: 1 / AD100

1 ELEVATION BUILDING B - FRONT/REAR ELEVATION
1/8" = 1'-0" REF: 1 / A103B

GENERAL NOTES - EXTERIOR ELEVATIONS

1. X

EXTERIOR CODED NOTES

1. X

EXTERIOR LEGEND

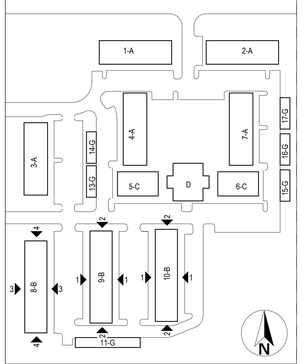
IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 53 13.A1	VINYL WINDOW

KEYPLAN



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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

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23446
A310B
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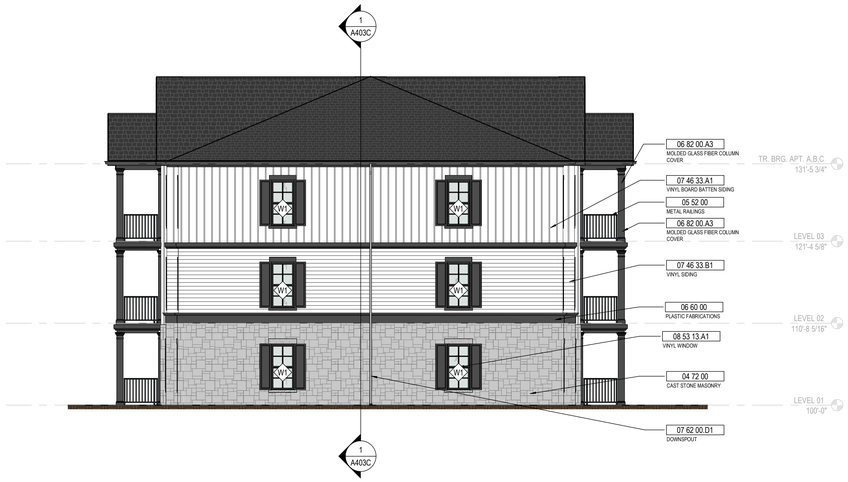


2 ELEVATION BUILDING C - SIDE ELEVATION
1/8" = 1'-0" REF: 1 / A105C

1 ELEVATION BUILDING C - FRONT/REAR ELEVATION
1/8" = 1'-0" REF: 1 / AD100

GENERAL NOTES - EXTERIOR ELEVATIONS

1. X

EXTERIOR CODED NOTES

1. X

EXTERIOR LEGEND

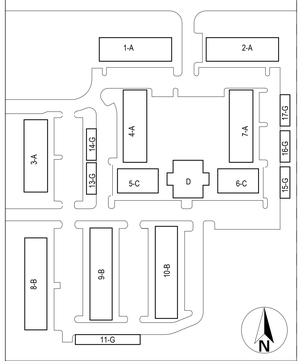
IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 53 13.A1	VINYL WINDOW

KEYPLAN



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSNEXT.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A310C

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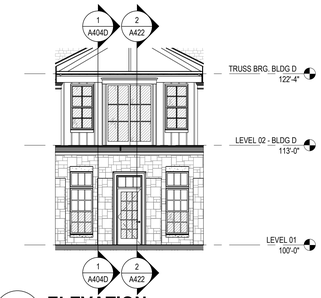
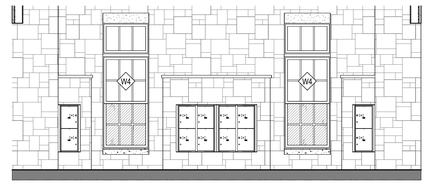
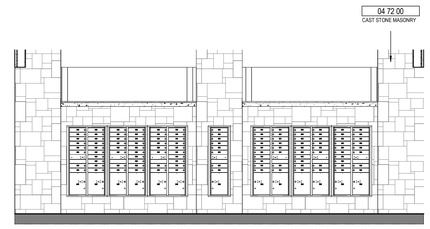


7 ELEVATION CLUBHOUSE ENTRY
1/8" = 1'-0" REF: 1 / 102-D



6 ELEVATION MAIL - WEST
1/4" = 1'-0" REF: 1 / A106D

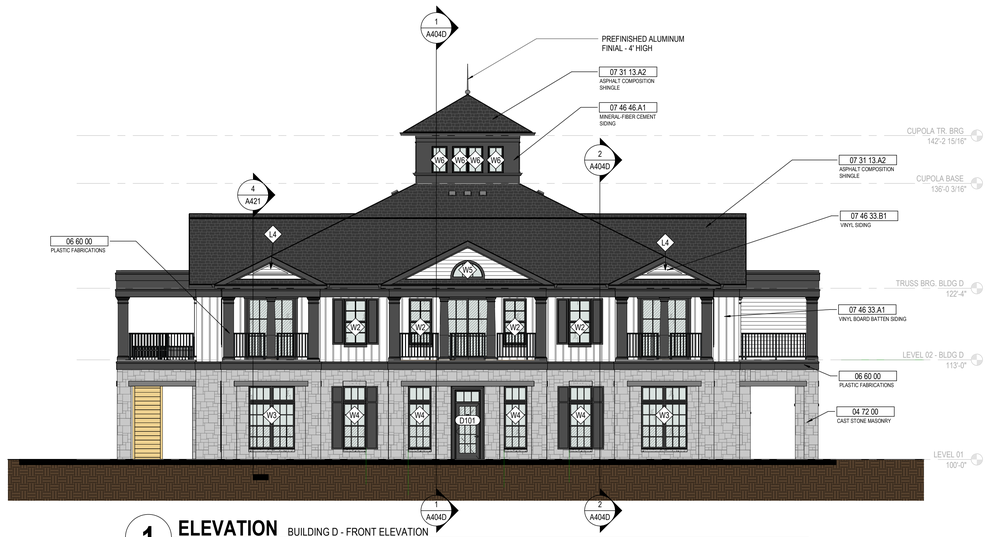


5 ELEVATION MAIL - EAST
1/4" = 1'-0" REF: 1 / A106D

4 ELEVATION BUILDING D - LEFT ELEVATION
1/8" = 1'-0" REF: 1 / A106D

3 ELEVATION BUILDING D - REAR ELEVATION
1/8" = 1'-0" REF: 1 / A106D

2 ELEVATION BUILDING D - RIGHT ELEVATION
1/8" = 1'-0" REF: 1 / A106D



1 ELEVATION BUILDING D - FRONT ELEVATION
1/8" = 1'-0" REF: 1 / A106D

GENERAL NOTES - EXTERIOR ELEVATIONS

1. X

EXTERIOR CODED NOTES

1. X

EXTERIOR LEGEND

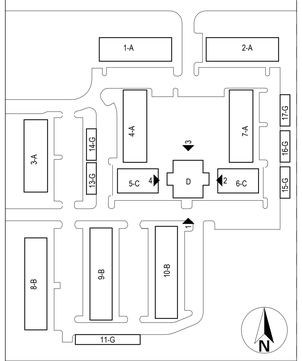
IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 46 46.A1	MINERAL-FIBER CEMENT SIDING
08 53 13.A1	VINYL WINDOW

KEYPLAN



#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A310D
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:01:48 PM
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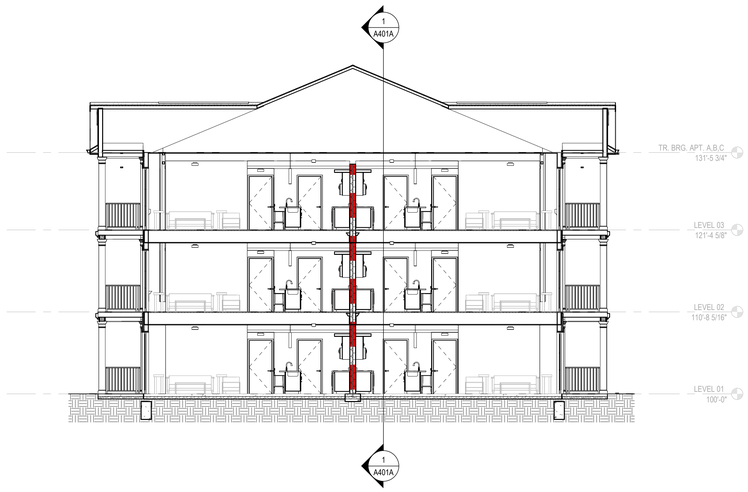
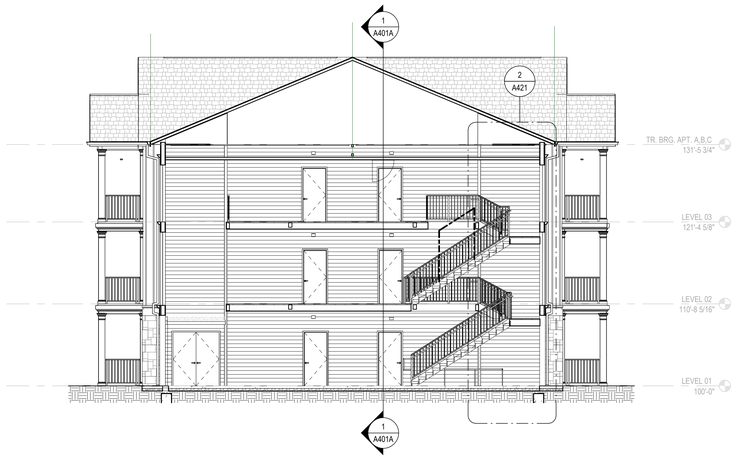


3 **SECTION** BUILDING A CROSS SECTION
1/8" = 1'-0"
REF: 1 / A101A



2 **SECTION** BUILDING A CROSS SECTION @ BREEZEWAY
1/8" = 1'-0"
REF: 1 / A101A

1 **SECTION** BUILDING A LONGITUDINAL SECTION
1/8" = 1'-0"
REF: 1 / A101A

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - SECTIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A401A
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:01:52 PM
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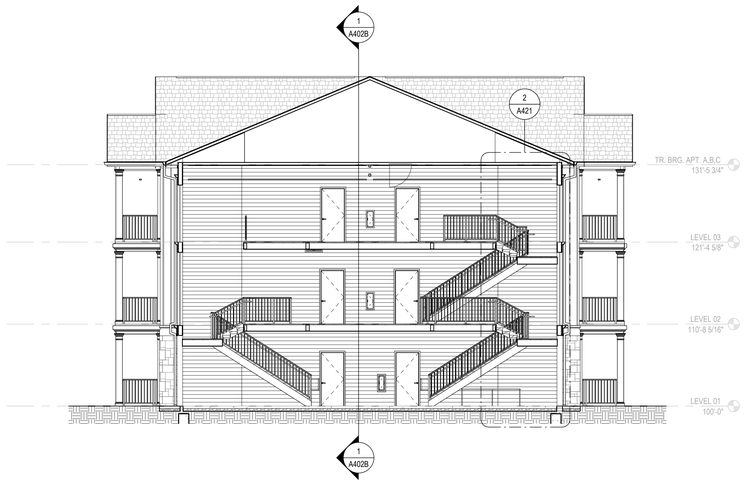
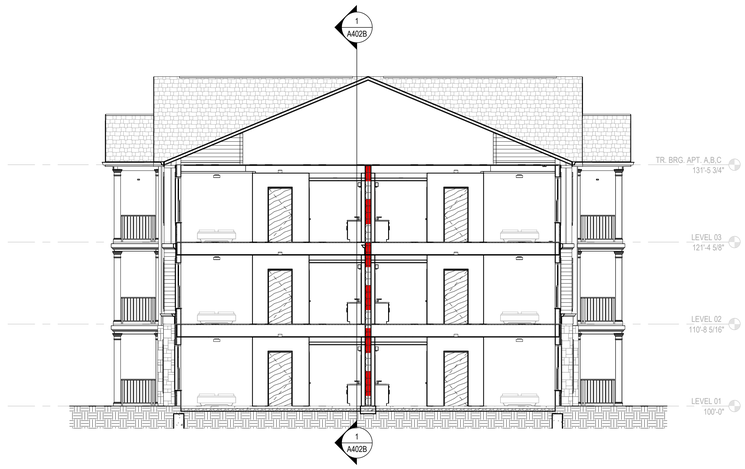


3 SECTION BLDG. TYPE B CROSS SECTION THRU BREEZEWAY
1/8" = 1'-0"
REF: 1 / A103B



2 SECTION BLDG TYPE B CROSS SECTION
1/8" = 1'-0"
REF: 1 / A103B

1 SECTION BUILDING B LONGITUDINAL SECTION
1/8" = 1'-0"
REF: 1 / A103B

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - SECTIONS

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A402B
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:01:57 PM
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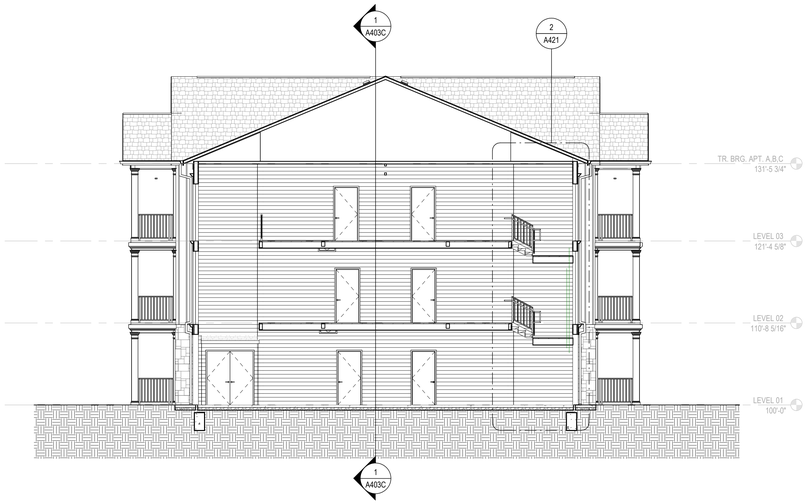
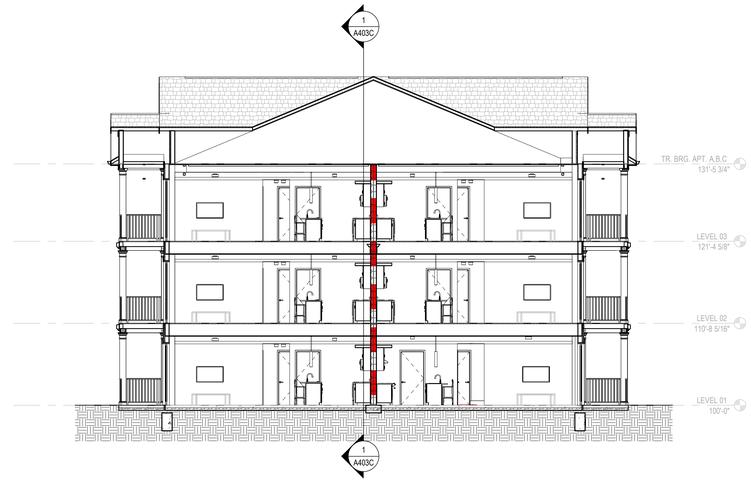


3 SECTION BLDG. TYPE C CROSS SECTION THRU BREEZEWAY
1/8" = 1'-0"
REF: 1 / A105C



2 SECTION BLDG. TYPE C - CROSS SECTION
1/8" = 1'-0"
REF: 1 / A105C

1 SECTION BLDG. TYPE C LONGITUDINAL SECTION
1/8" = 1'-0"
REF: 1 / A105C

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - SECTIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A403C
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:01 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/Rpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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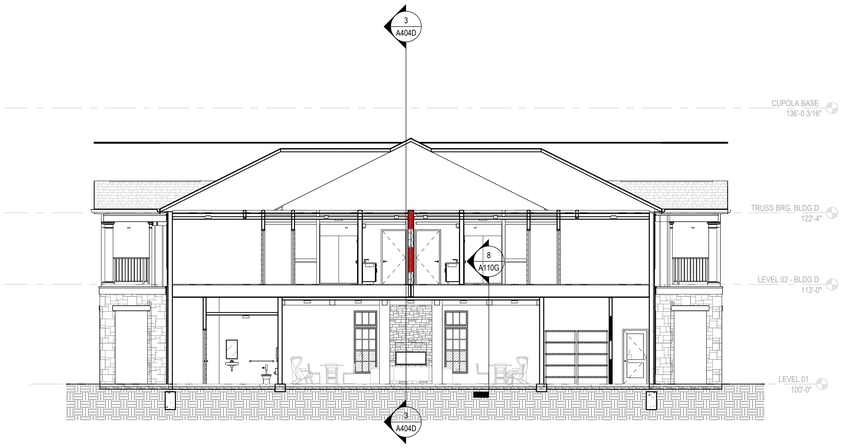
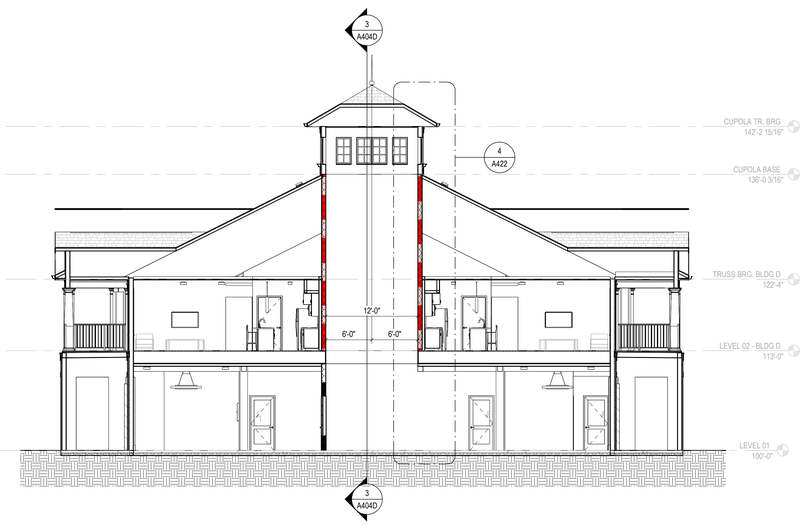


2 SECTION 1/8" = 1'-0"
SECTION NORTH-SOUTH #2 - BUILDING D - CLUBHOUSE
REF: 1 / A106D

3 SECTION 1/8" = 1'-0"
SECTION EAST-WEST - BUILDING D - CLUBHOUSE
REF: 1 / A106D



1 SECTION 1/8" = 1'-0"
SECTION NORTH-SOUTH #1 - BUILDING D - CLUBHOUSE
REF: 1 / A106D

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - SECTIONS

PROGRESS
DRAWING
NOT FOR
CONSTRUCTION

05/01/2025
23446
A404D
CD PROGRESS SET

REVIT VERSION: 2023
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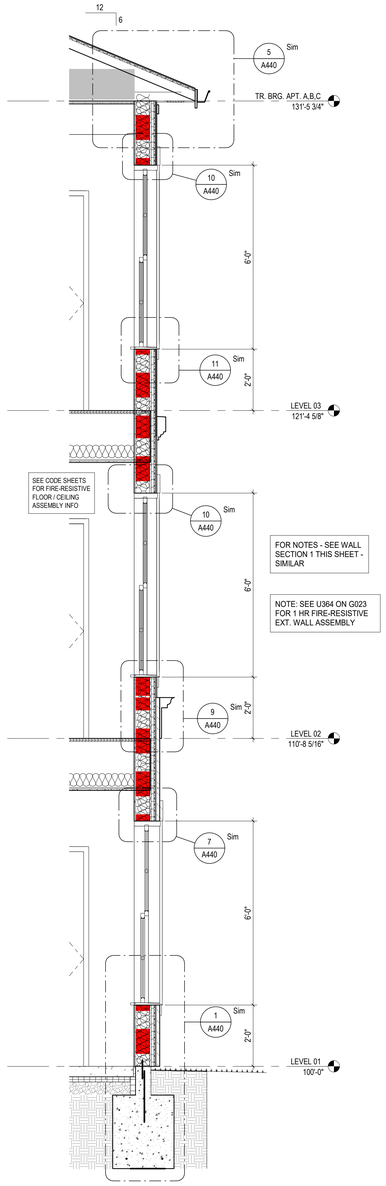
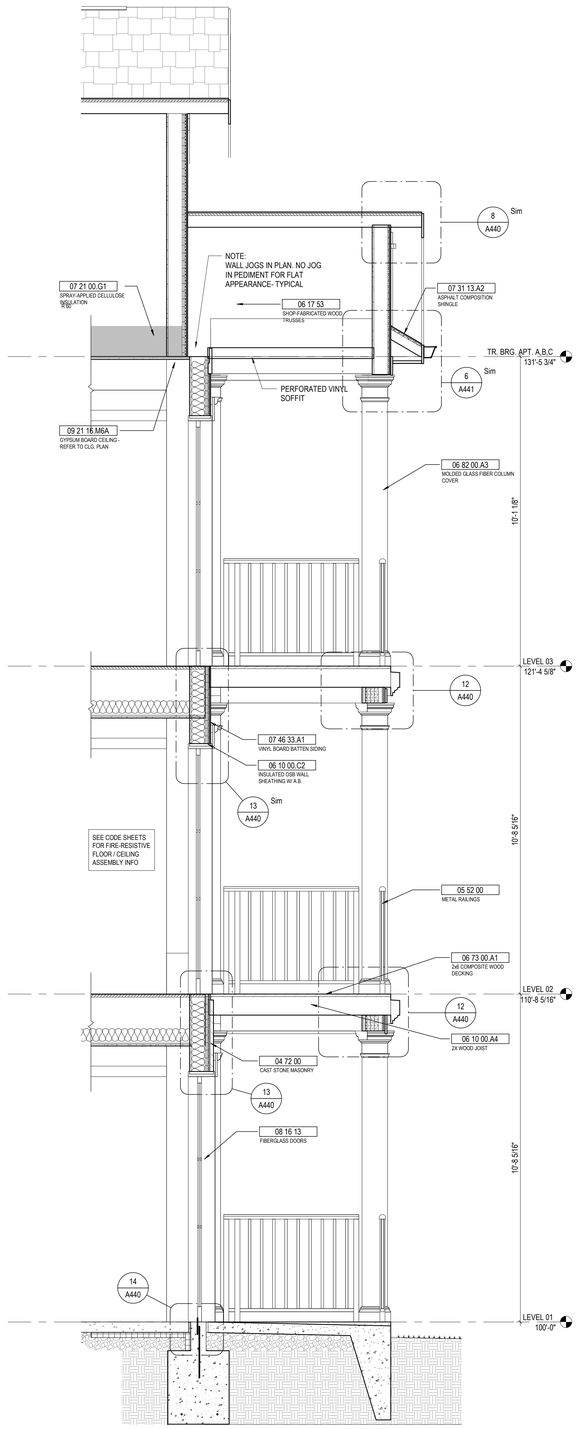
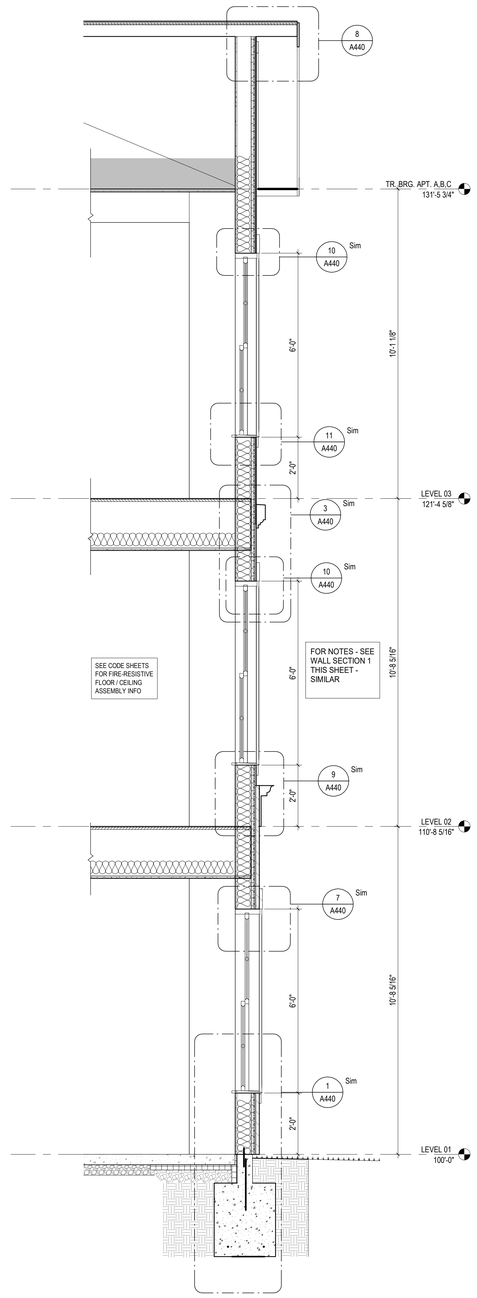


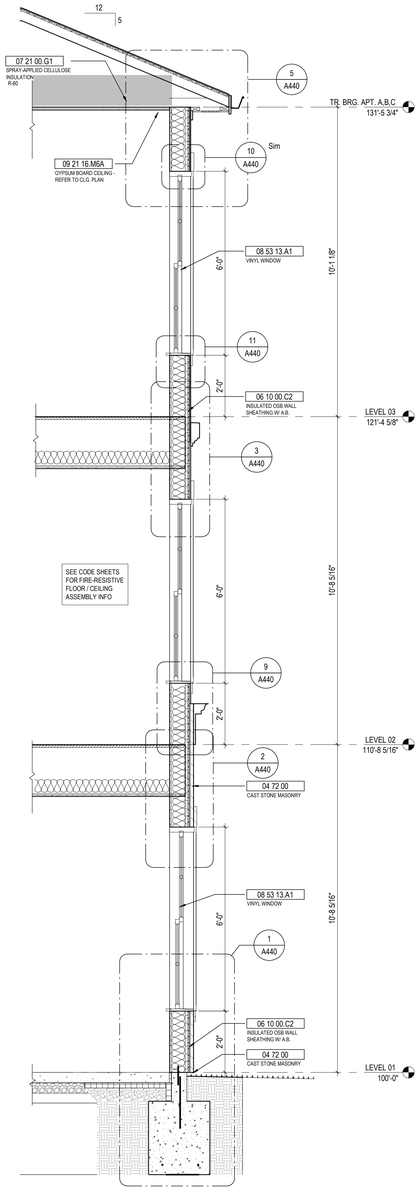
4 SECTION 1/2" = 1'-0"
BLDG. TYPE A - AT 1HR FIRE-RESISTIVE ENDWALL
REF: 1 / 100-A



3 SECTION 1/2" = 1'-0"
BLDG. TYPE A - WALL SECTION @ BALCONY
REF: 1 / A101A



2 SECTION 1/2" = 1'-0"
BLDG. TYPE A - TYPICAL WALL SECTION AT PEDIMENT
REF: 1 / A101A



1 SECTION 1/2" = 1'-0"
BLDG. TYPE A - TYPICAL WALL SECTION
REF: 1 / A101A

GENERAL NOTES - WALL SECTIONS

A. REFER TO G SHEETS FOR ADDITIONAL INFORMATION OF FIRE RATINGS FOR FLOORS AND WALLS.
B. ALL METAL EXPOSED TO EXTERIOR CONDITIONS TO BE GALVANIZED.
C. REFER TO ELEVATIONS FOR WINDOW TYPES.
D. SEAL AIR BARRIER CONTINUOUSLY THROUGHOUT ALL ADJACENT SYSTEMS AND STEEL SUPPORTS (TYP.)
E. AIR BARRIER MUST BE CONTINUOUSLY SEALED AT ALL WINDOW FRAMES.
F. ALL RIGID INSULATION IN WALLS OR CURTAINWALL TO BE PROPERLY SEALED AT ALL PENETRATIONS
G. ALL GRADE TO SLOPE AWAY FROM BUILDING.
H. ALL DRIP EDGES TO BE STAINLESS STEEL.
I. ALL FLASHING ON WALLS INTERSECTING ROOF SURFACES TO TURN UP ROOF A MINIMUM OF 8". ADDITIONAL TURN-UP MAY BE REQUIRED BY ROOF MANUFACTURER TO MAINTAIN WARRANTY. REFER TO ROOFING MANUFACTURER'S RECOMMENDED DETAILS FOR ADDITIONAL INFORMATION.
J. RETURN PREMANUFACTURED STONE BANDING PATTERN AND REVEALS AT ALL WINDOW JAMBS, PILASTERS AND CHANGES IN WALL PLANE.
K. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER.
L. REFER TO ELEVATIONS AND SPECIFICATIONS FOR LOCATIONS OF CONTROL JOINTS.
M. BATT INSULATION TO HAVE FACING PER ATTACHED SPECIFICATION.
N. REFER TO WINDOW SHEETS AND INTERIOR SHEETS FOR EXACT LOCATION AND ADDITIONAL INFORMATION REGARDING WINDOW SHADES.
O. COMBUSTIBLE EXTERIOR WALL COVERINGS SHALL BE LIMITED TO 40 FEET IN HEIGHT ABOVE GRADE PLANE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A4	2X WOOD JOIST
06 10 00.C2	INSULATED OSB WALL SHEATHING W/ A.B.
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
08 16 13	FIBERGLASS DOORS
08 53 13.A1	VINYL WINDOW
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WALL SECTIONS - BUILDING A THRU C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A420
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:39 PM
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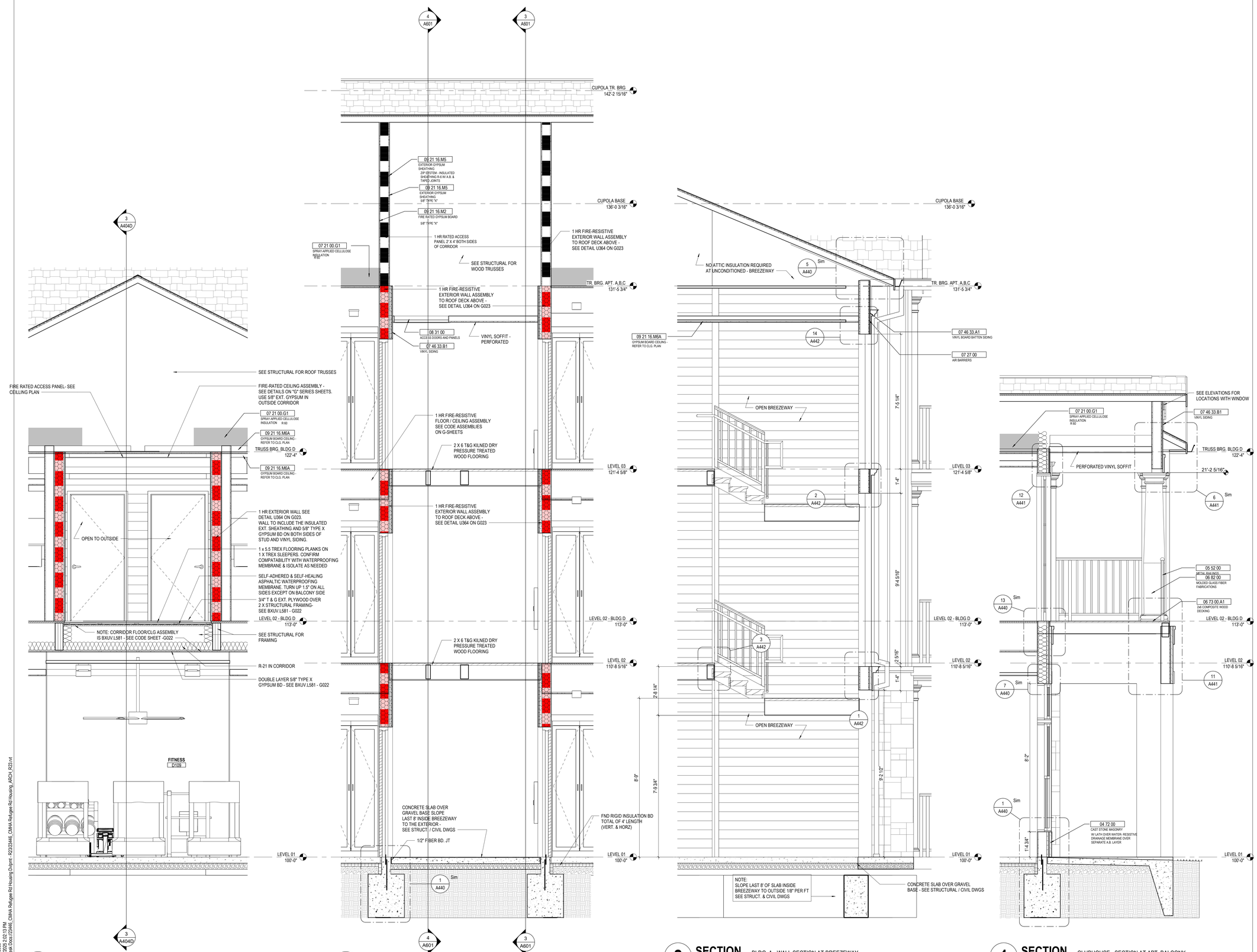

4 SECTION 1/2" = 1'-0" BLDG. D - CLUBHOUSE 2ND FL OUTSIDE CORRIDOR REF: 1 / 102-D

3 DETAIL 1/2" = 1'-0" BLDG. A - SECTION THRU BREEZEWAY REF: 2 / A601

2 SECTION 1/2" = 1'-0" BLDG. A - WALL SECTION AT BREEZEWAY REF: 1 / 100-A

1 SECTION 1/2" = 1'-0" CLUBHOUSE - SECTION AT APT. BALCONY REF: 1 / 102-D

GENERAL NOTES - WALL SECTIONS

A. REFER TO G SHEETS FOR ADDITIONAL INFORMATION OF FIRE RATINGS FOR FLOORS AND WALLS.
B. ALL METAL EXPOSED TO EXTERIOR CONDITIONS TO BE GALVANIZED.
C. REFER TO ELEVATIONS FOR WINDOW TYPES.
D. SEAL AIR BARRIER CONTINUOUSLY THROUGHOUT ALL ADJACENT SYSTEMS AND STEEL SUPPORTS (TYP.)
E. AIR BARRIER MUST BE CONTINUOUSLY SEALED AT ALL WINDOW FRAMES.
F. ALL RIGID INSULATION IN WALLS OR CURTAINWALL TO BE PROPERLY SEALED AT ALL PENETRATIONS
G. ALL GRADE TO SLOPE AWAY FROM BUILDING.
H. ALL DRIP EDGES TO BE STAINLESS STEEL.
I. ALL FLASHING ON WALLS INTERSECTING ROOF SURFACES TO TURN UP ROOF A MINIMUM OF 8". ADDITIONAL TURN-UP MAY BE REQUIRED BY ROOF MANUFACTURER TO MAINTAIN WARRANTY. REFER TO ROOFING MANUFACTURER'S RECOMMENDED DETAILS FOR ADDITIONAL INFORMATION.
J. RETURN PREMANUFACTURED STONE BANDING PATTERN AND REVEALS AT ALL WINDOW JAMBS, PILASTERS AND CHANGES IN WALL PLANE.
K. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER.
L. REFER TO ELEVATIONS AND SPECIFICATIONS FOR LOCATIONS OF CONTROL JOINTS.
M. BATT INSULATION TO HAVE FACING PER ATTACHED SPECIFICATION.
N. REFER TO WINDOW SHEETS AND INTERIOR SHEETS FOR EXACT LOCATION AND ADDITIONAL INFORMATION REGARDING WINDOW SHADES.
O. COMBUSTIBLE EXTERIOR WALL COVERINGS SHALL BE LIMITED TO 40 FEET IN HEIGHT ABOVE GRADE PLANE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
06 82 00	MOLDED GLASS FIBER FABRICATIONS
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 27 00	AIR BARRIERS
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
08 31 00	ACCESS DOORS AND PANELS
09 21 16.M2	FIRE RATED GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WALL SECTIONS - BUILDING A - C & D

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A421
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:13 PM
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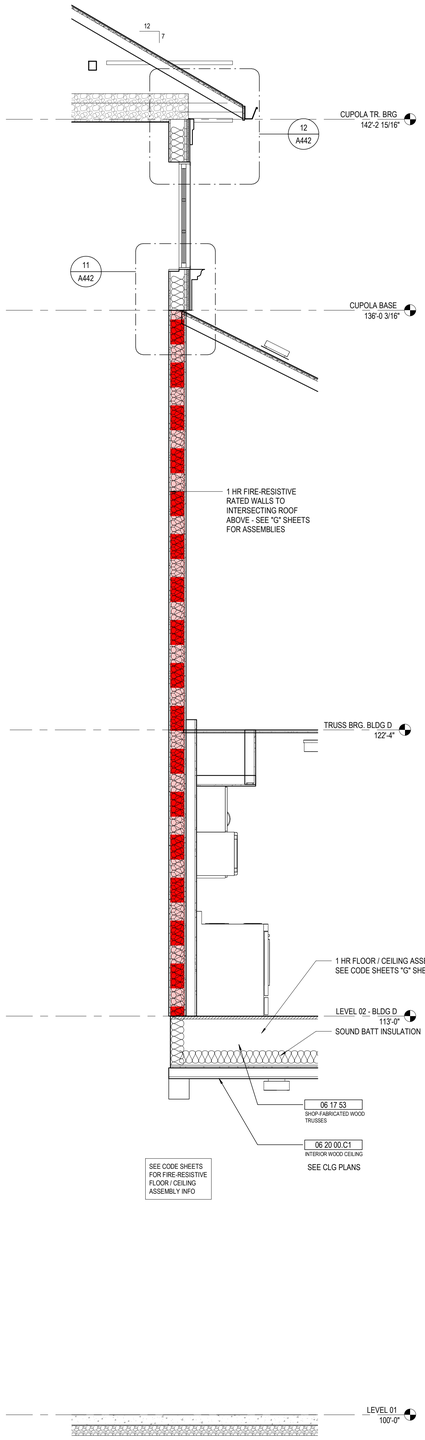
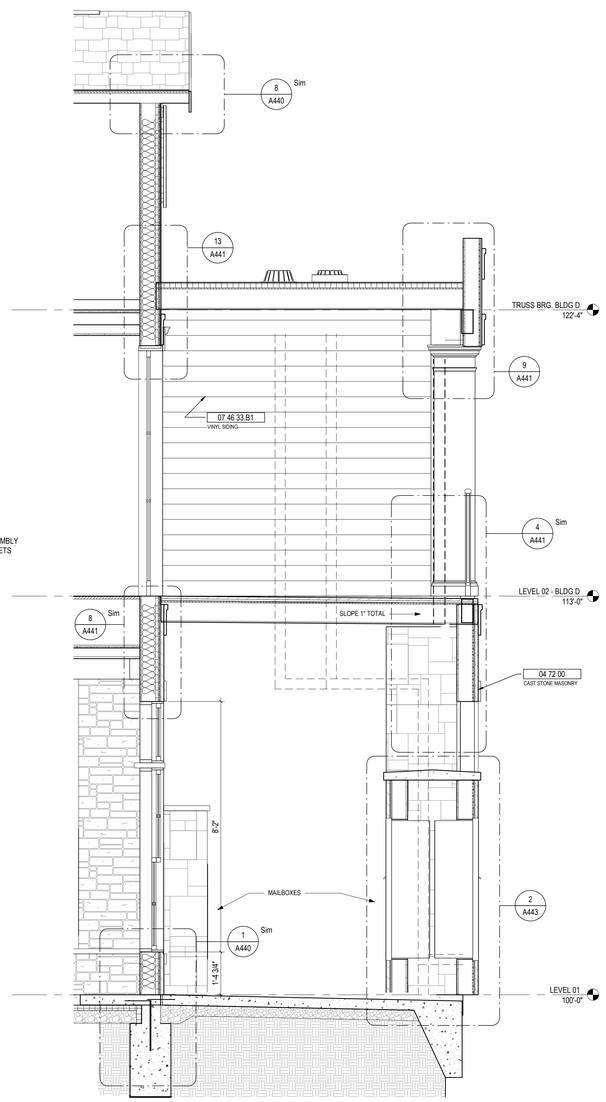
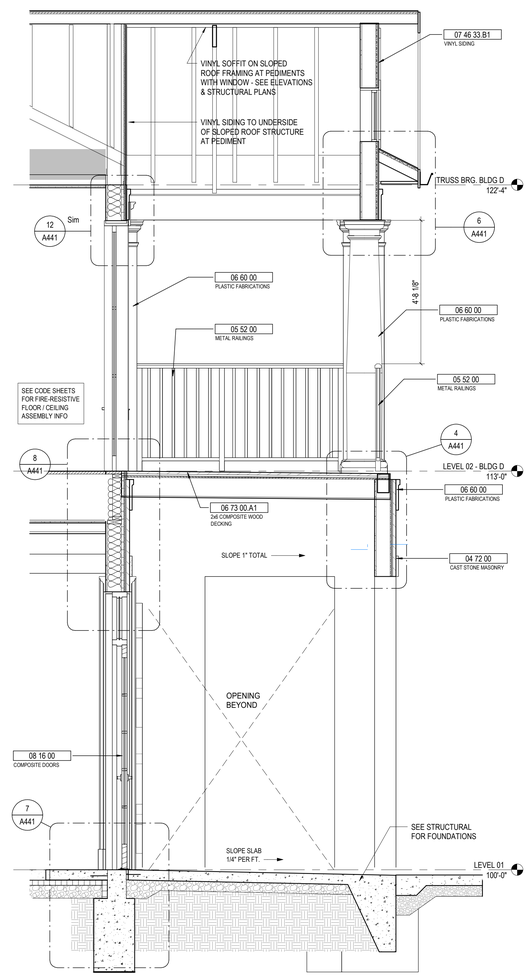


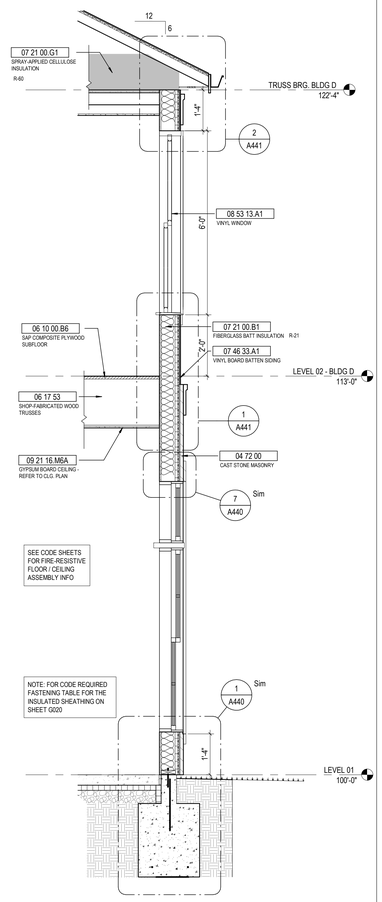
4 **SECTION** BLDG. D - CLUBHOUSE AT CUPOLA
1/2" = 1'-0" REF: 1 / A106D



3 **SECTION** BLDG. D - CLUBHOUSE AT SIDE PORTICO
1/2" = 1'-0" REF: 1 / A106D



2 **SECTION** BLDG. D - CLUBHOUSE AT ENTRY BALCONY
1/2" = 1'-0" REF: 1 / A106D



1 **SECTION** BLDG. D - CLUBHOUSE WALL SECTION 1
1/2" = 1'-0" REF: 1 / A106D

GENERAL NOTES - WALL SECTIONS

A. REFER TO G SHEETS FOR ADDITIONAL INFORMATION OF FIRE RATINGS FOR FLOORS AND WALLS.
B. ALL METAL EXPOSED TO EXTERIOR CONDITIONS TO BE GALVANIZED.
C. REFER TO ELEVATIONS FOR WINDOW TYPES.
D. SEAL AIR BARRIER CONTINUOUSLY THROUGHOUT ALL ADJACENT SYSTEMS AND STEEL SUPPORTS (TYP.)
E. AIR BARRIER MUST BE CONTINUOUSLY SEALED AT ALL WINDOW FRAMES.
F. ALL RIGID INSULATION IN WALLS OR CURTAINWALL TO BE PROPERLY SEALED AT ALL PENETRATIONS
G. ALL GRADE TO SLOPE AWAY FROM BUILDING.
H. ALL DRIP EDGES TO BE STAINLESS STEEL.
I. ALL FLASHING ON WALLS INTERSECTING ROOF SURFACES TO TURN UP ROOF A MINIMUM OF 8". ADDITIONAL TURN-UP MAY BE REQUIRED BY ROOF MANUFACTURER TO MAINTAIN WARRANTY. REFER TO ROOFING MANUFACTURER'S RECOMMENDED DETAILS FOR ADDITIONAL INFORMATION.
J. RETURN PREMANUFACTURED STONE BANDING PATTERN AND REVEALS AT ALL WINDOW JAMBS, PILASTERS AND CHANGES IN WALL PLANE.
K. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER.
L. REFER TO ELEVATIONS AND SPECIFICATIONS FOR LOCATIONS OF CONTROL JOINTS.
M. BATT INSULATION TO HAVE FACING PER ATTACHED SPECIFICATION.
N. REFER TO WINDOW SHEETS AND INTERIOR SHEETS FOR EXACT LOCATION AND ADDITIONAL INFORMATION REGARDING WINDOW SHADES.
O. COMBUSTIBLE EXTERIOR WALL COVERINGS SHALL BE LIMITED TO 40 FEET IN HEIGHT ABOVE GRADE PLANE..

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.B6	SAP COMPOSITE PLYWOOD SUBFLOOR
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 20 00.C1	INTERIOR WOOD CEILING
06 60 00	PLASTIC FABRICATIONS
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
08 16 00	COMPOSITE DOORS
08 53 13.A1	VINYL WINDOW
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WALL SECTIONS - CLUBHOUSE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A422
CD PROGRESS SET

REVIT VERSION: 2023
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FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/prjmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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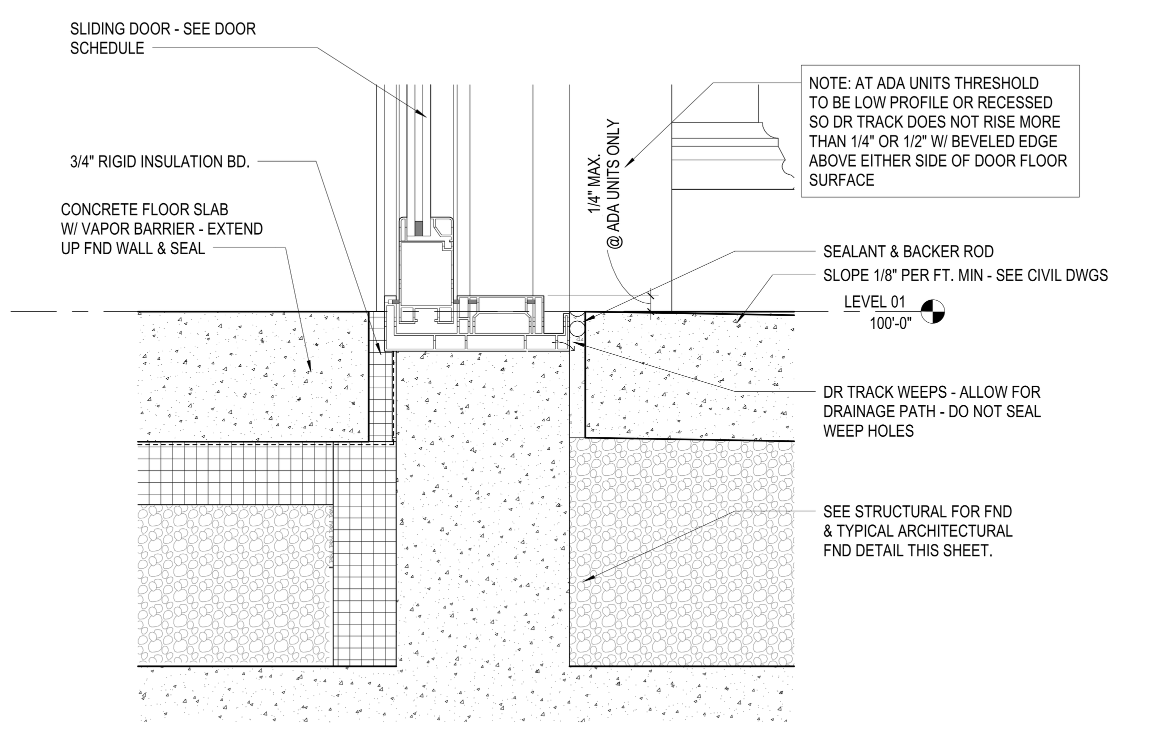
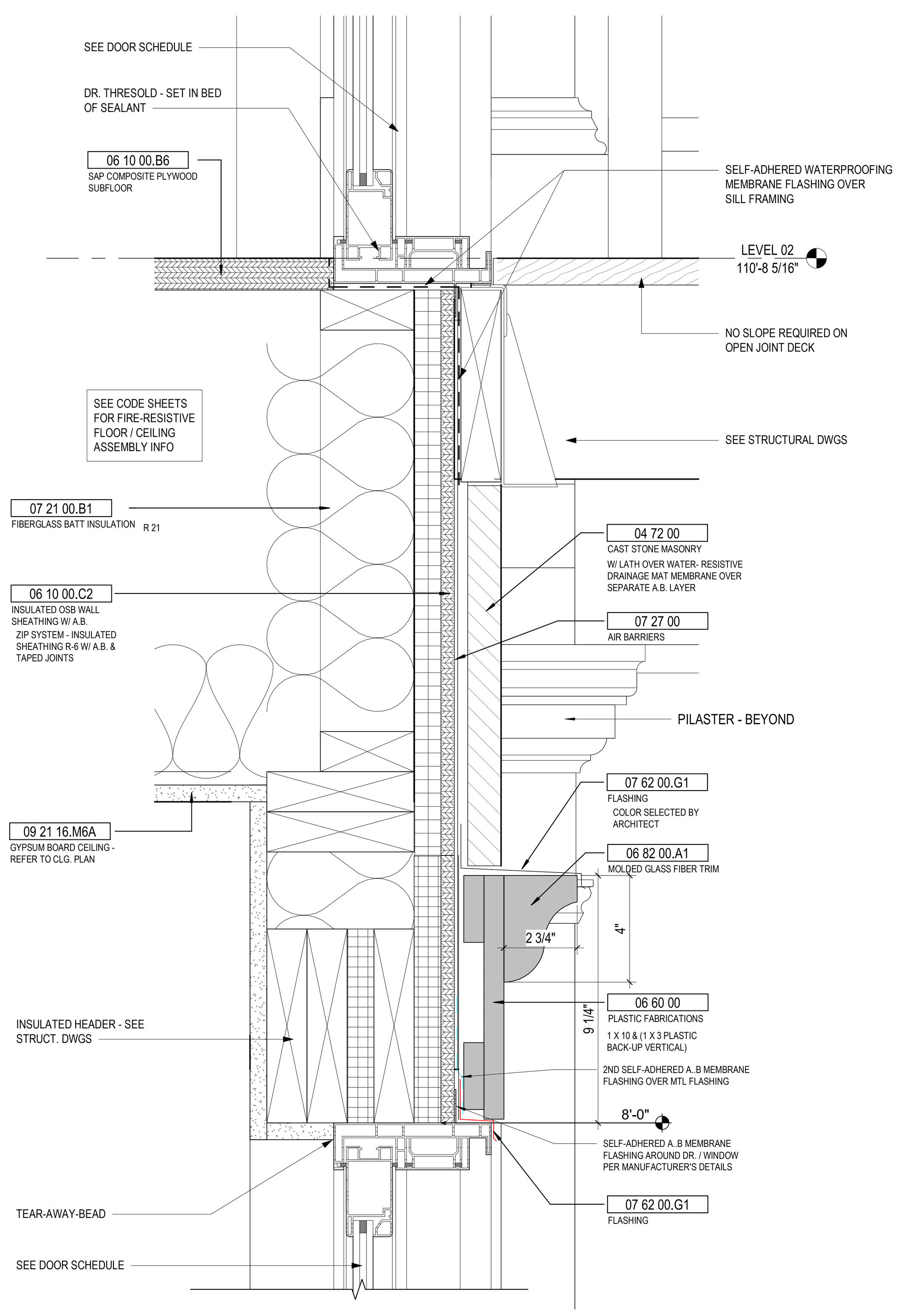
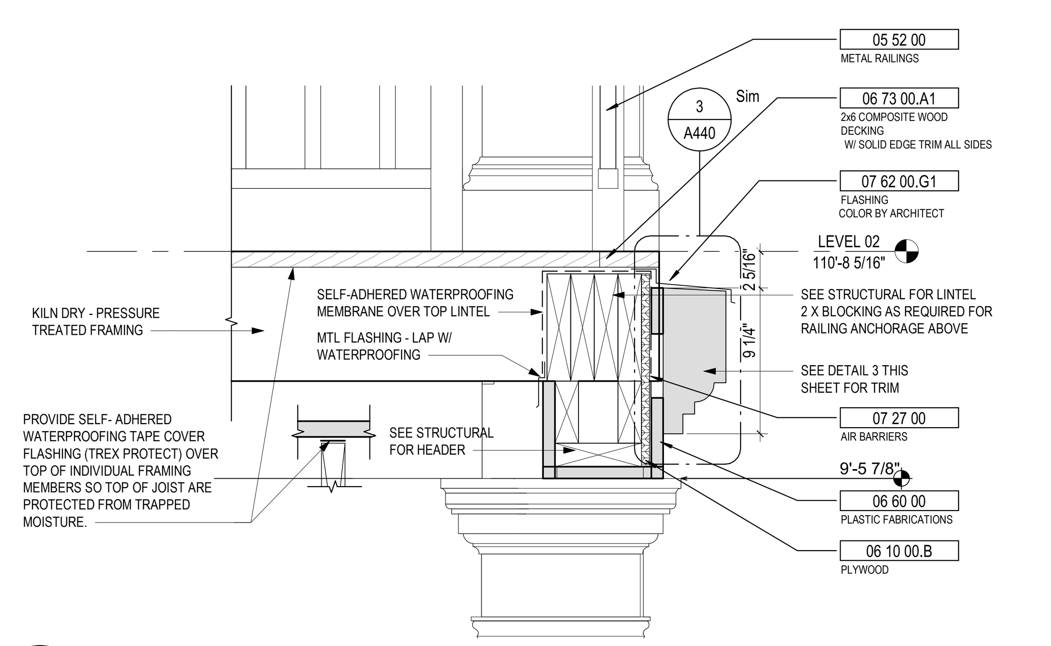


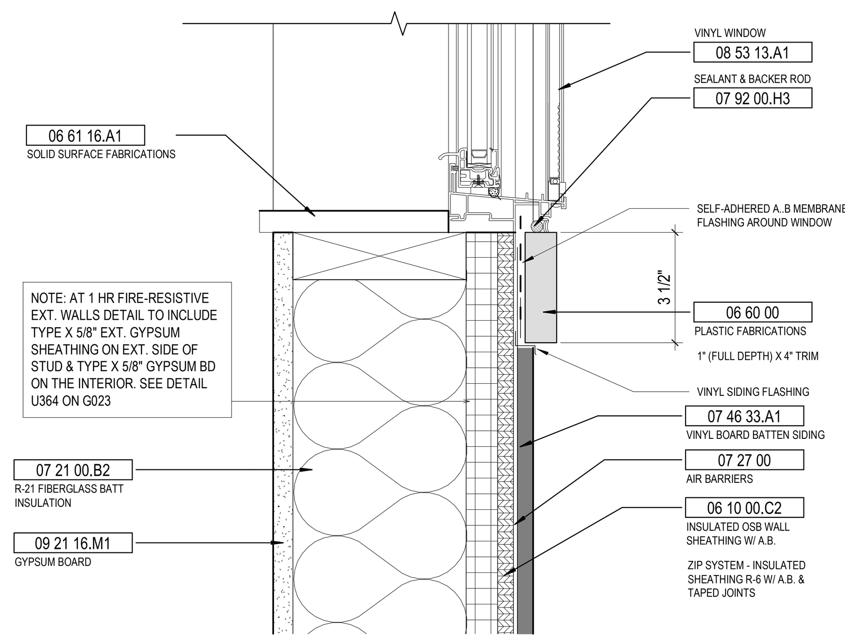
14 DETAIL BLDG TYPE A - LEVEL 01 PATIO SLIDING DOOR SILL
3" = 1'-0" REF: 3 / A420



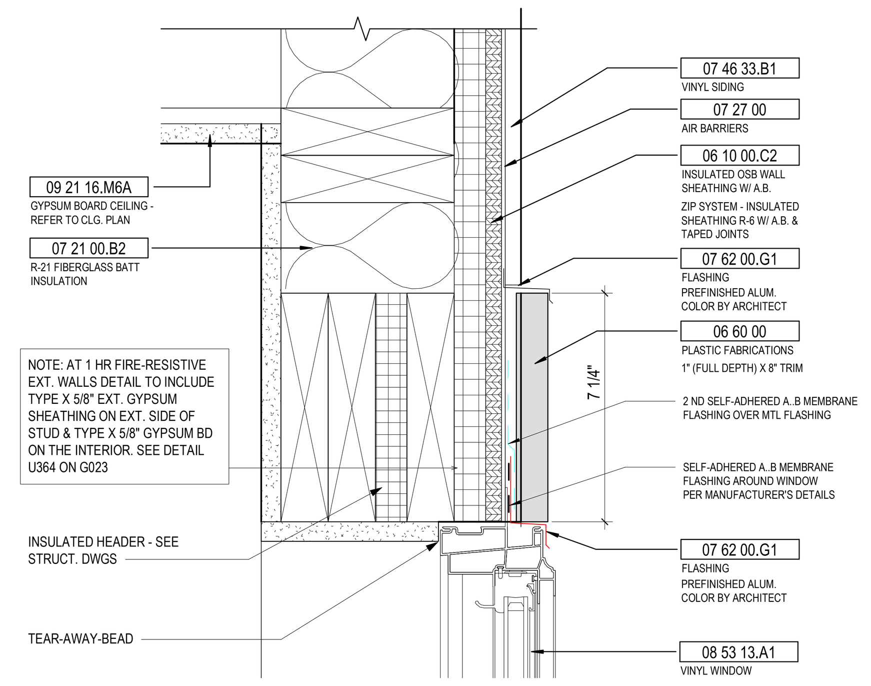
13 DETAIL BLDG. TYPE A - 2ND & 3RD FL. SLIDING DR SILL & HEAD
3" = 1'-0" REF: 3 / A420



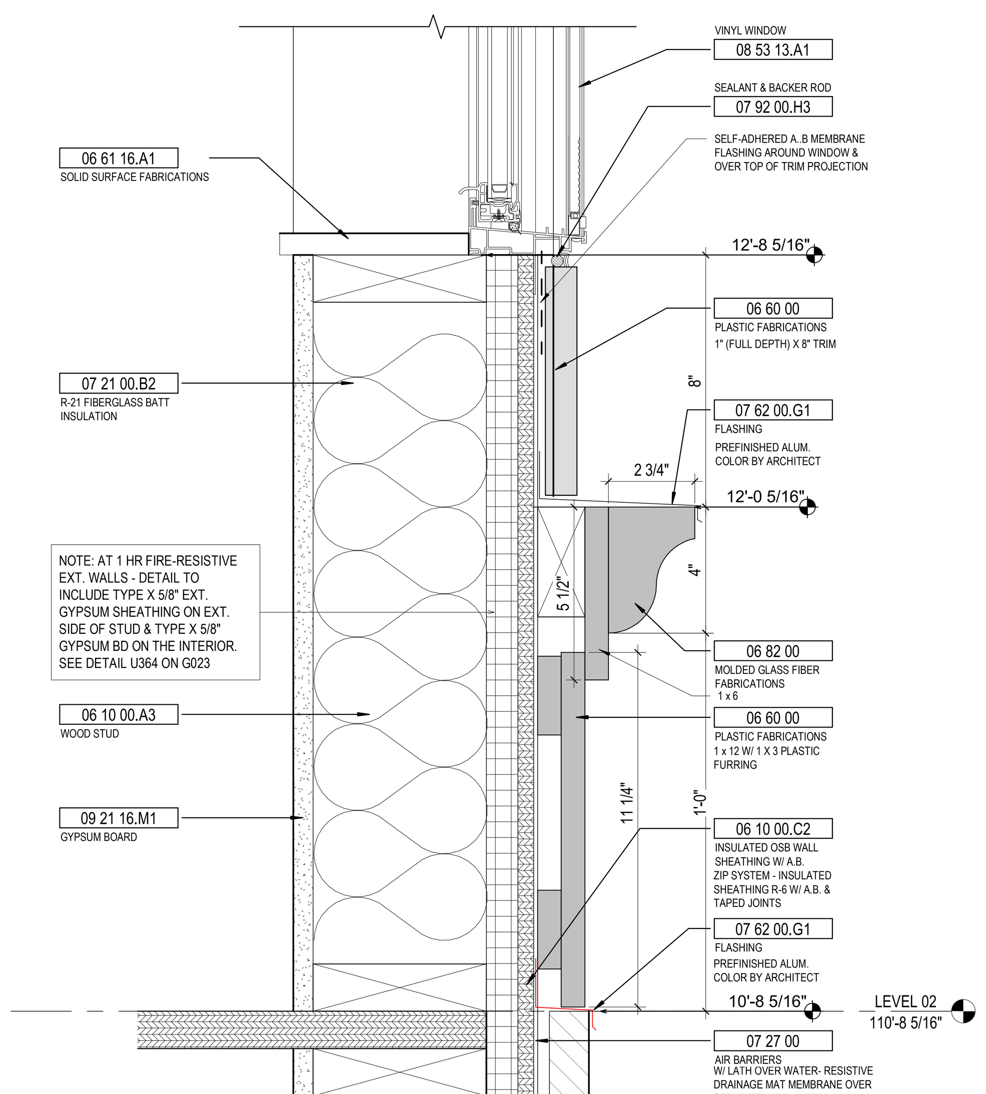
12 DETAIL BLDG. TYPE A - 2ND & 3RD FL. BALCONY
1 1/2" = 1'-0" REF: 3 / A420



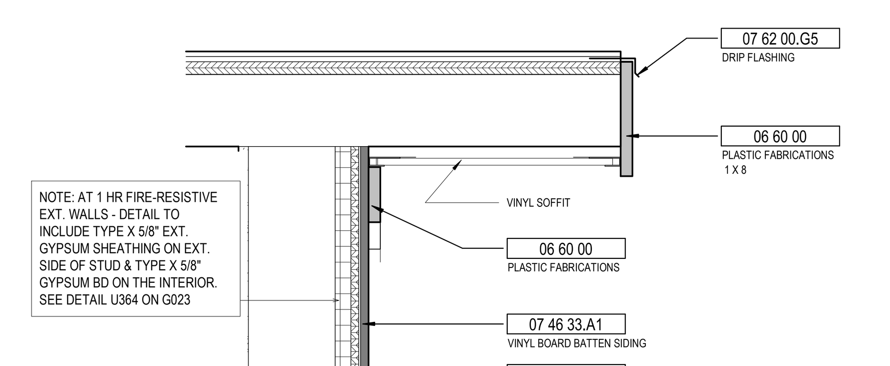
11 DETAIL WINDOW SILL @ 3RD FL W/ VINYL SIDING
3" = 1'-0" REF: 1 / A420



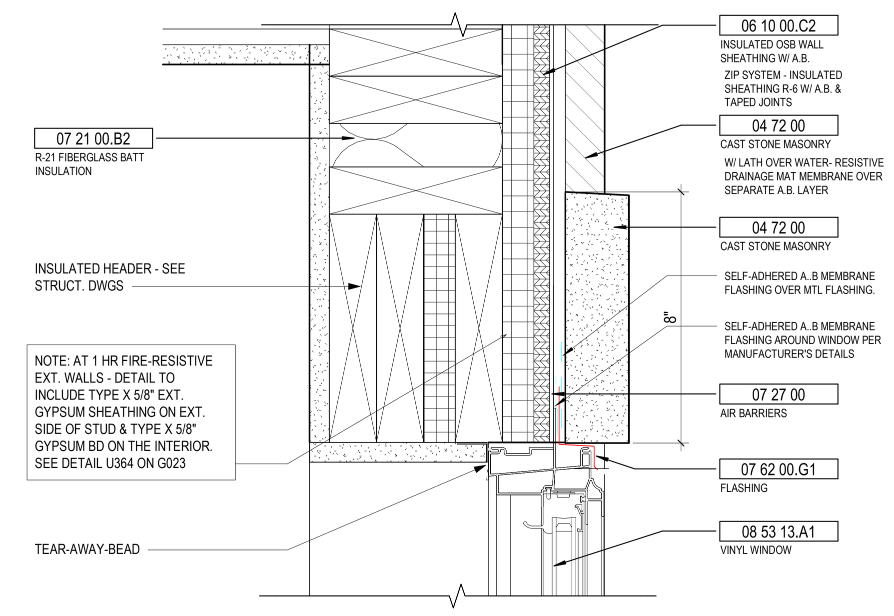
10 DETAIL WINDOW HEAD @ VINYL SIDING - LEVELS 02 & 03
3" = 1'-0" REF: 1 / A420



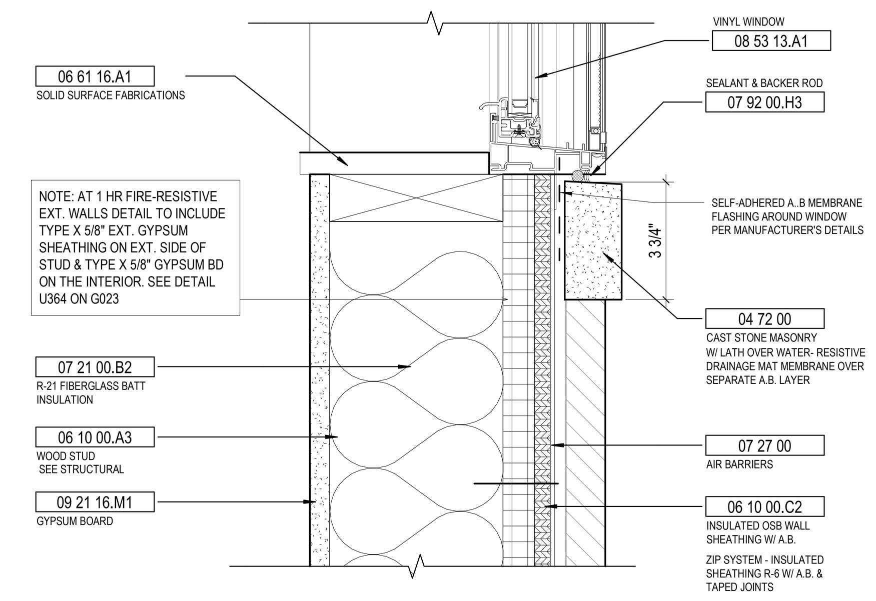
9 DETAIL WINDOW SILL @ CAST STONE VENEER - 2ND LEVEL
3" = 1'-0" REF: 1 / A420



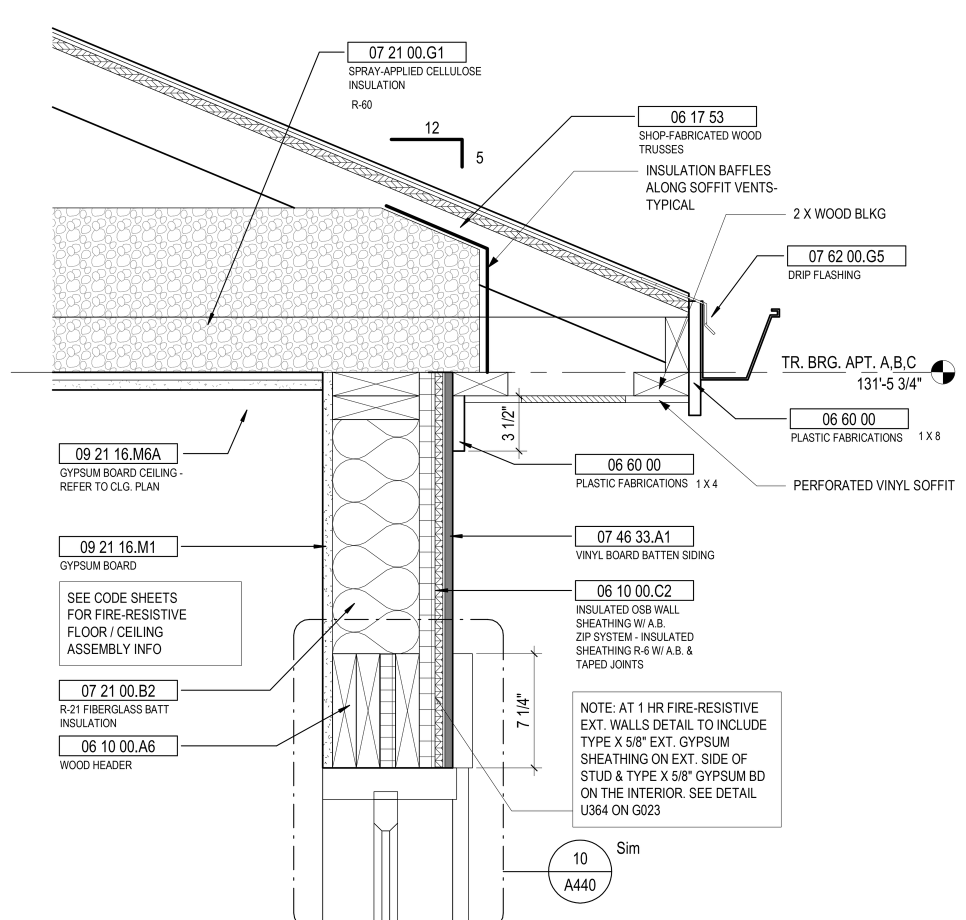
8 DETAIL BLDG. TYPE A AT ROOF PEDIMENT OVERHANG
1 1/2" = 1'-0" REF: 2 / A420



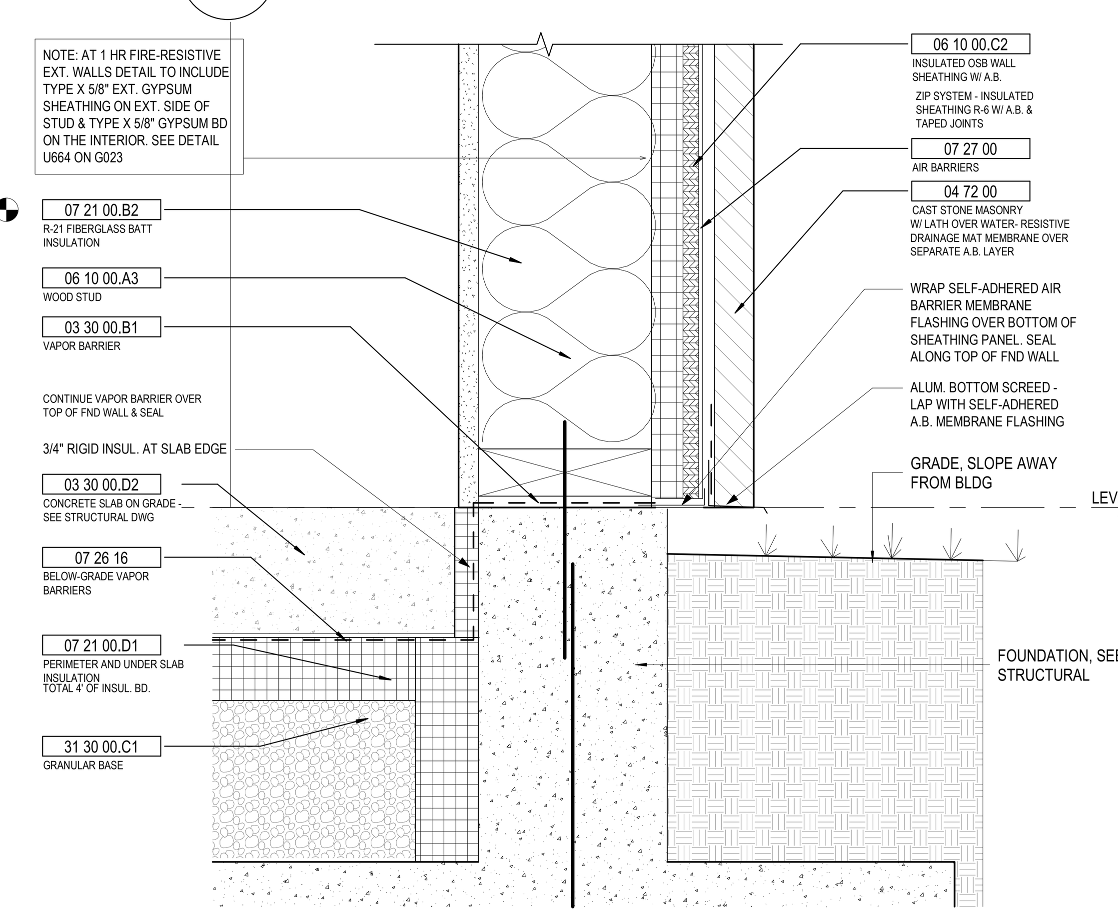
7 DETAIL WINDOW HEAD @ CAST STONE VENEER
3" = 1'-0" REF: 2 / A420



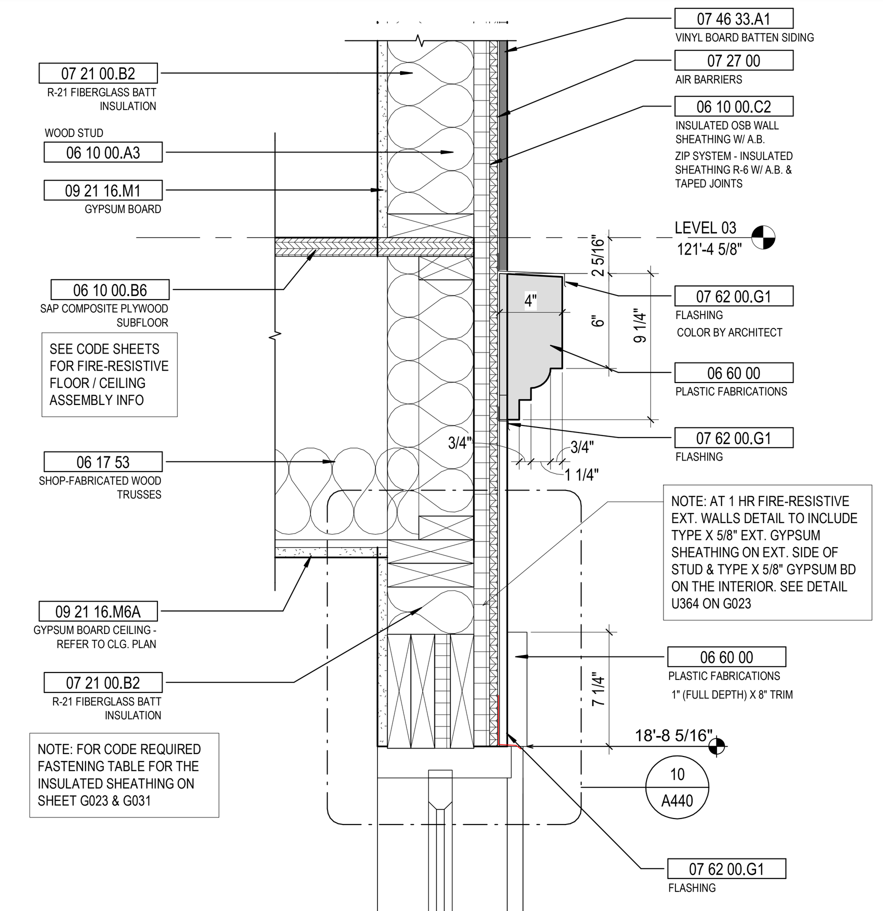
6 DETAIL WINDOW SILL @ CAST STONE SIDING - LEVEL 01
3" = 1'-0" REF: 1 / A440



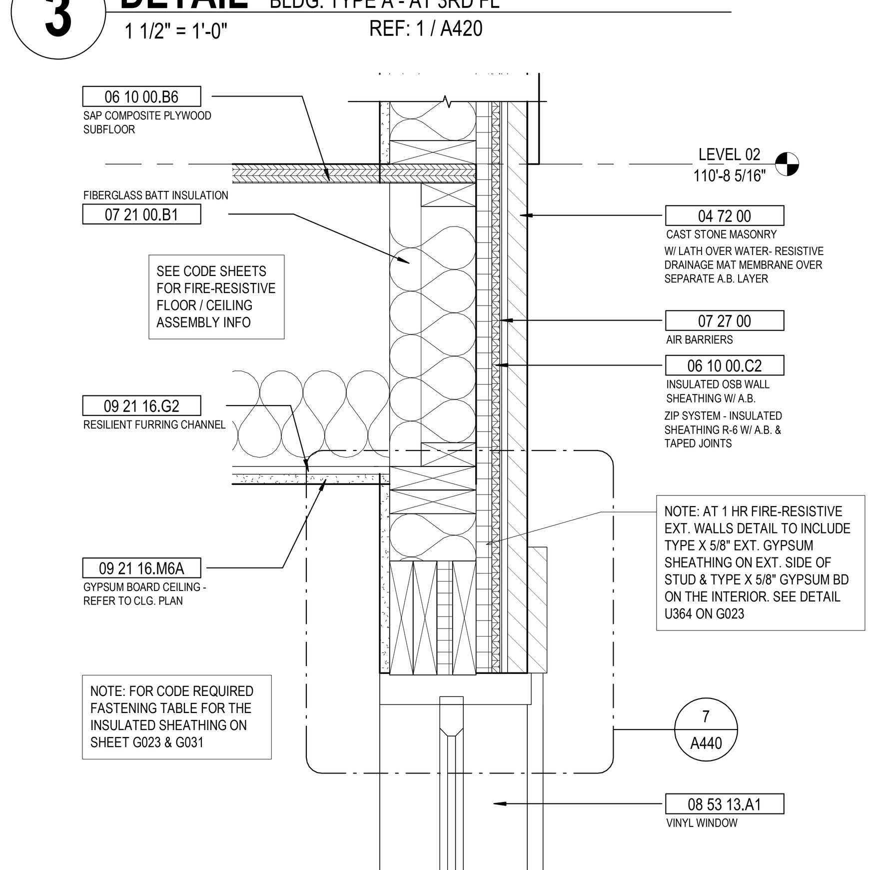
5 DETAIL BLDG. TYPE A AT ROOF SOFFIT OVERHANG
1 1/2" = 1'-0" REF: 1 / A420



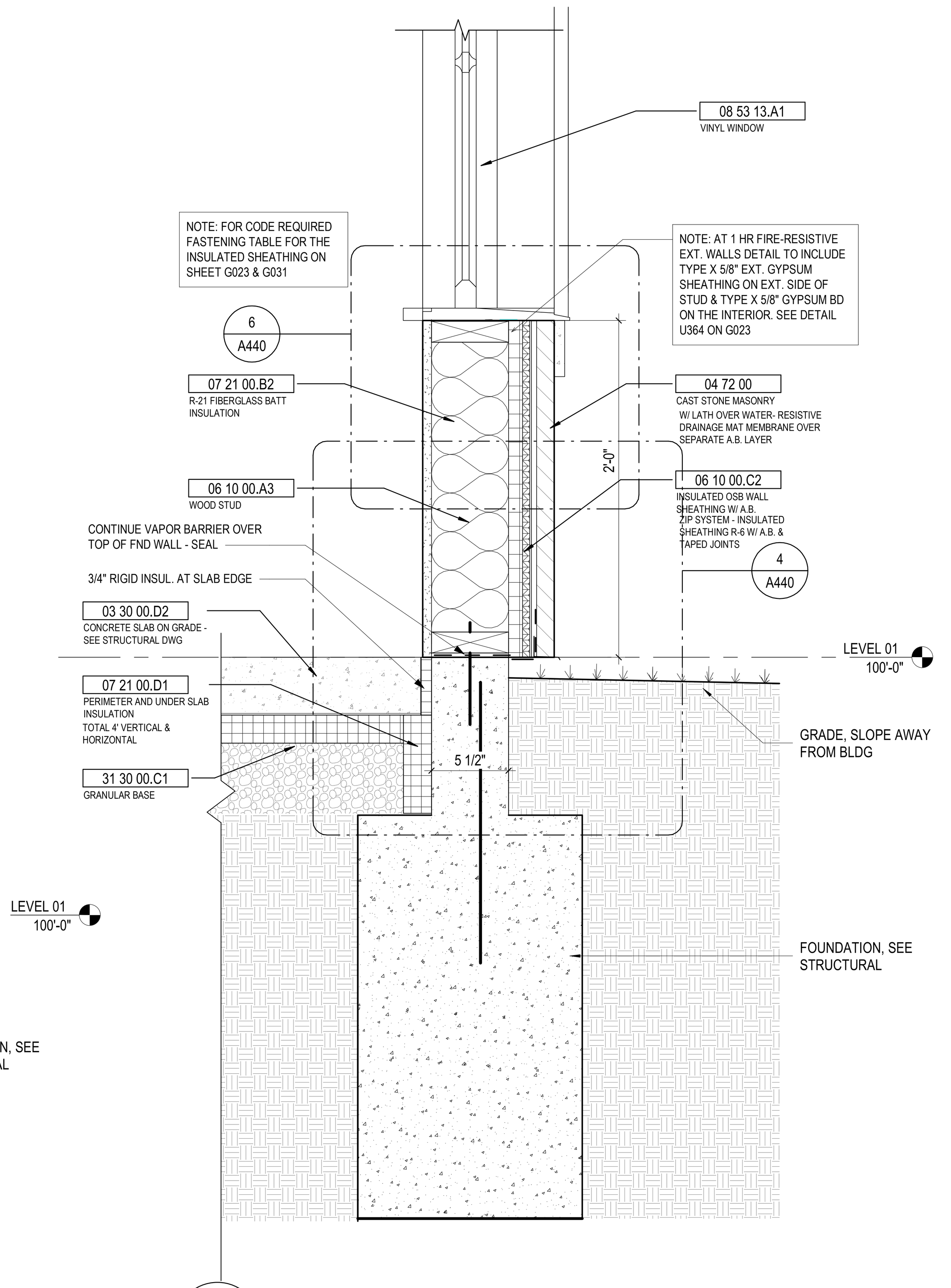
4 DETAIL TYPICAL FND SILL
3" = 1'-0" REF: 1 / A440



3 DETAIL BLDG. TYPE A - AT 3RD FL
1 1/2" = 1'-0" REF: 1 / A420



2 DETAIL BLDG. TYPE A - AT 2 ND FL. W/ SIDING
1 1/2" = 1'-0" REF: 1 / A420



1 DETAIL BLDG. TYPE A - TYPICAL FND
1 1/2" = 1'-0" REF: 1 / A420

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03 30 00.B1	VAPOR BARRIER
03 30 00.D2	CONCRETE SLAB ON GRADE - SEE STRUCTURAL DWG
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A3	WOOD STUD
06 10 00.A6	WOOD HEADER
06 10 00.B	PLYWOOD
06 10 00.B6	SAP COMPOSITE PLYWOOD SUBFLOOR
06 10 00.C2	INSULATED OSB WALL SHEATHING W/ A.B.
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 60 00	PLASTIC FABRICATIONS
06 61 16.A1	SOLID SURFACE FABRICATIONS
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
06 82 00	MOLDED GLASS FIBER FABRICATIONS
06 82 00.A1	MOLDED GLASS FIBER TRIM
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.B2	R-21 FIBERGLASS BATT INSULATION
07 21 00.D1	PERIMETER AND UNDER SLAB INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 26 16	BELOW-GRADE VAPOR BARRIERS
07 27 00	AIR BARRIERS
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
07 92 00.H3	SEALANT & BACKER ROD
08 53 13.A1	VINYL WINDOW
09 21 16.G2	RESILIENT FURRING CHANNEL
09 21 16.M1	GYPSUM BOARD
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN
31 30 00.C1	GRANULAR BASE

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EXTERIOR DETAILS - SECTION

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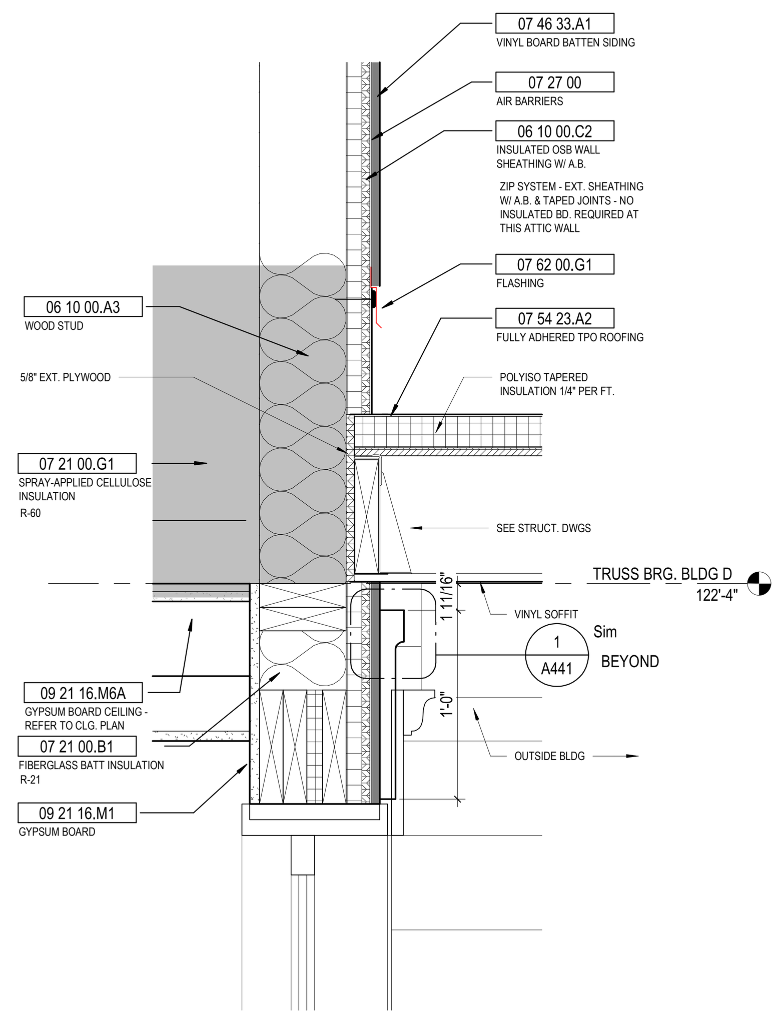
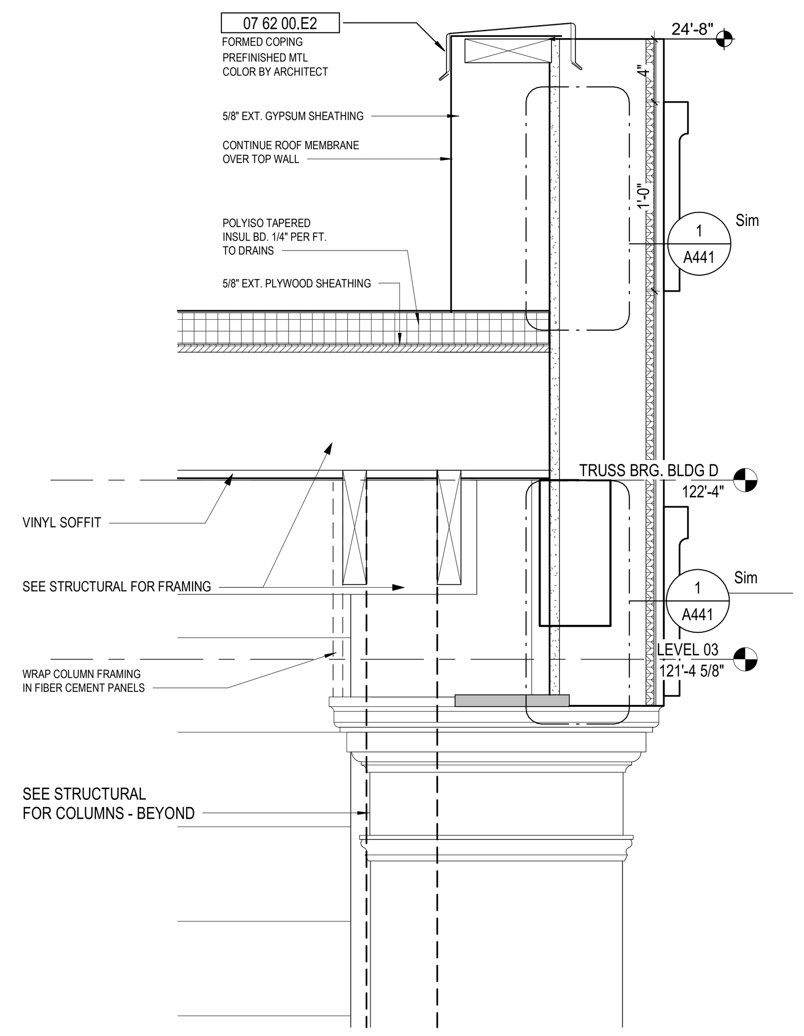
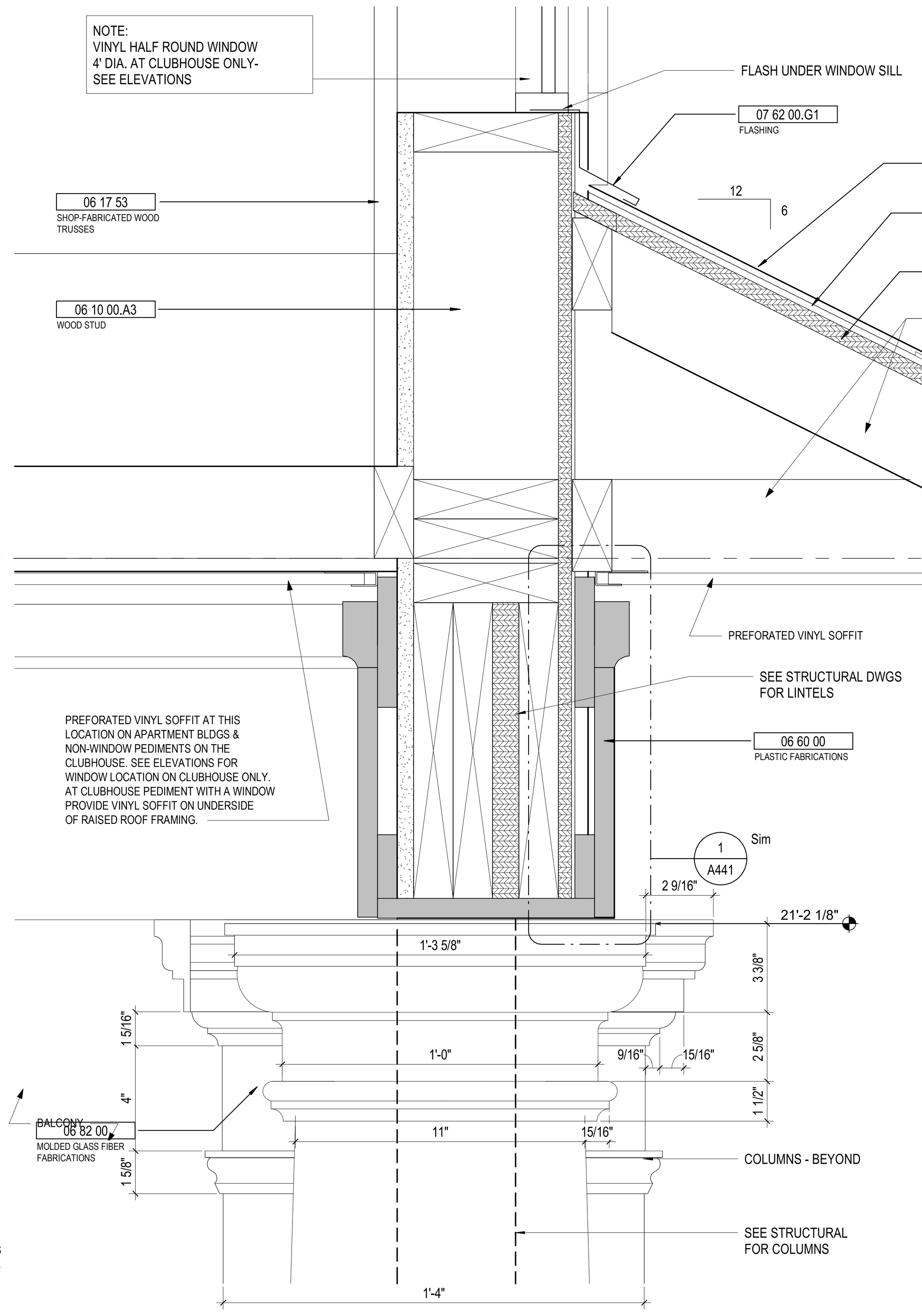


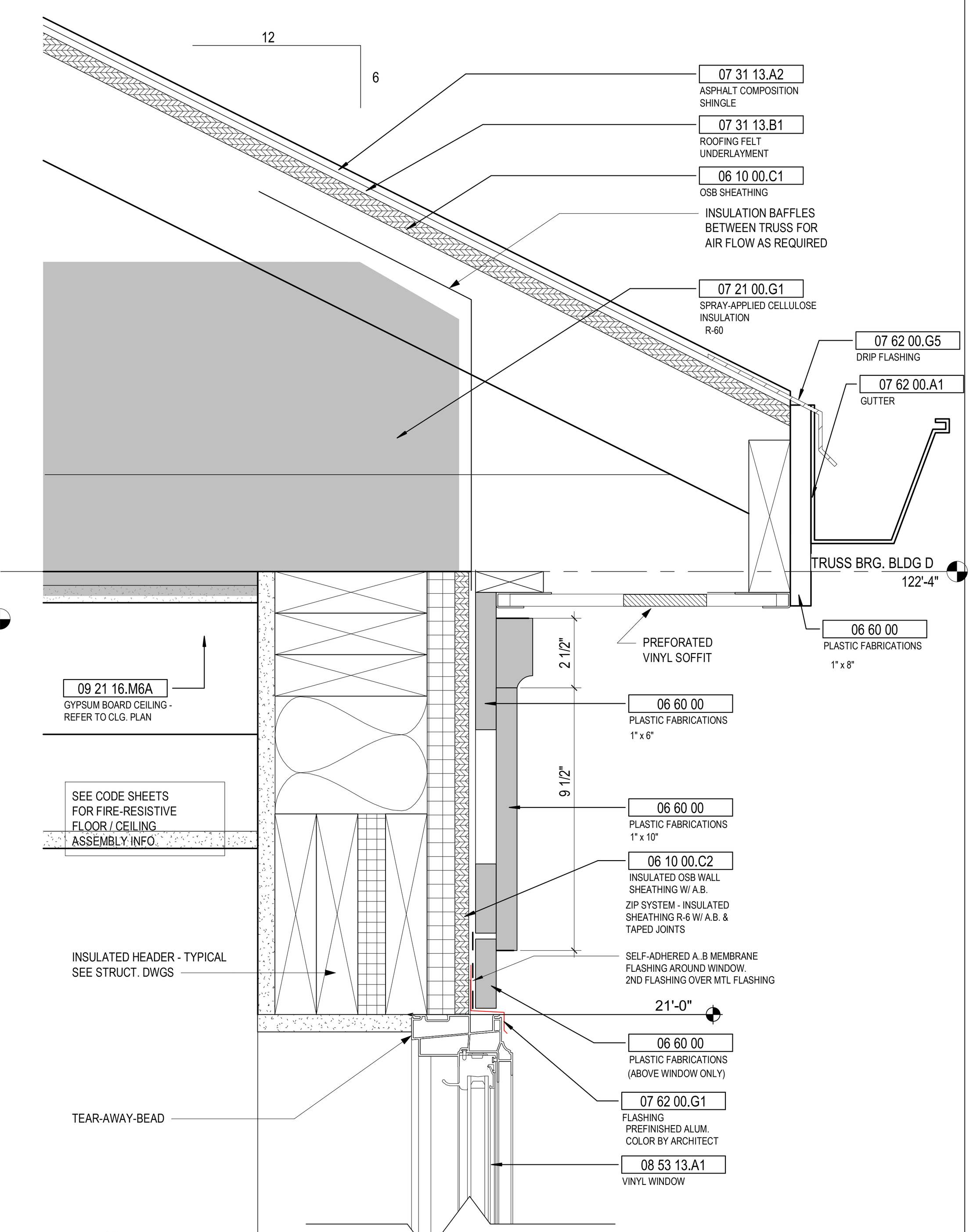
13 DETAIL CLUBHOUSE - BALCONY ROOF / WALL
1 1/2" = 1'-0" REF: 3 / A422



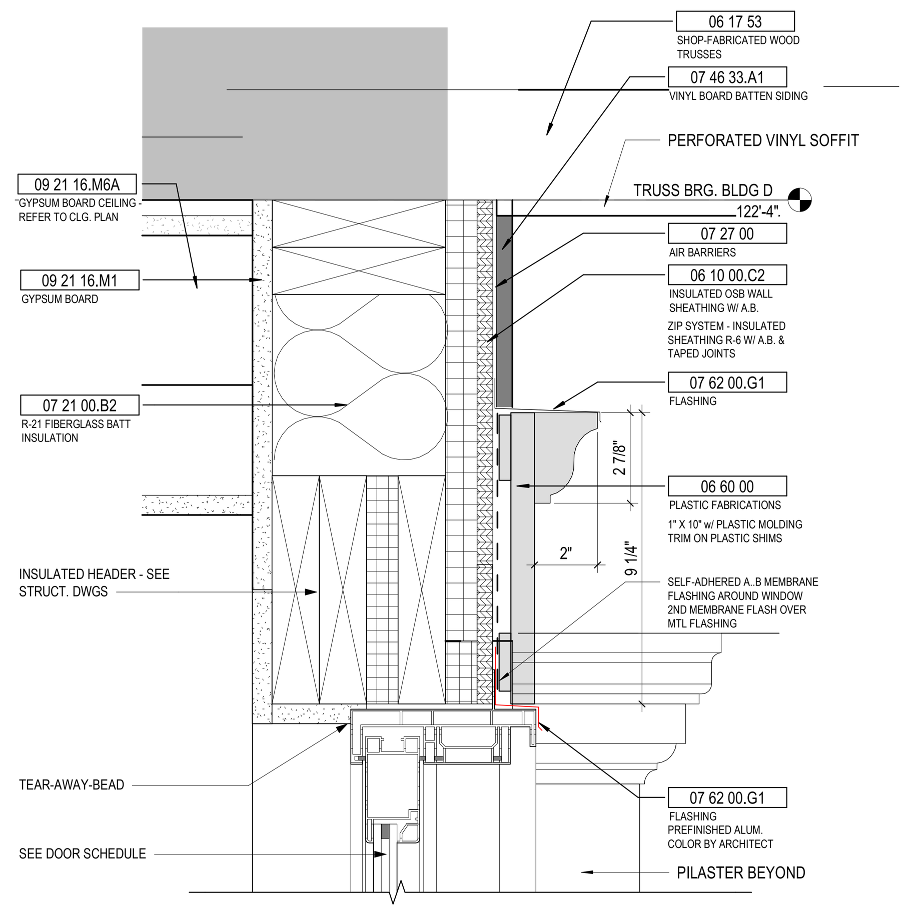
9 DETAIL CLUBHOUSE - 2ND FL BALCONY ROOF
1 1/2" = 1'-0" REF: 3 / A422



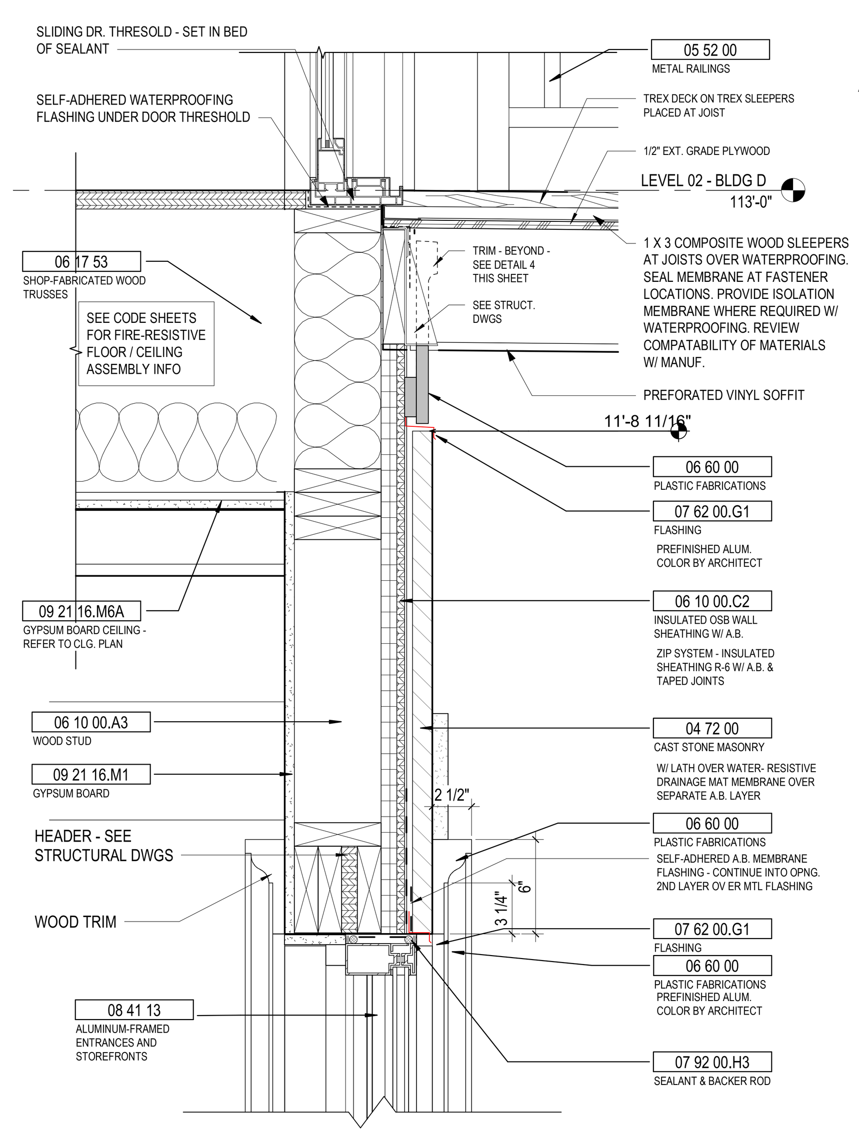
6 DETAIL CLUBHOUSE - BALCONY SOFFIT w/ WINDOW
3" = 1'-0" REF: 3 / A420



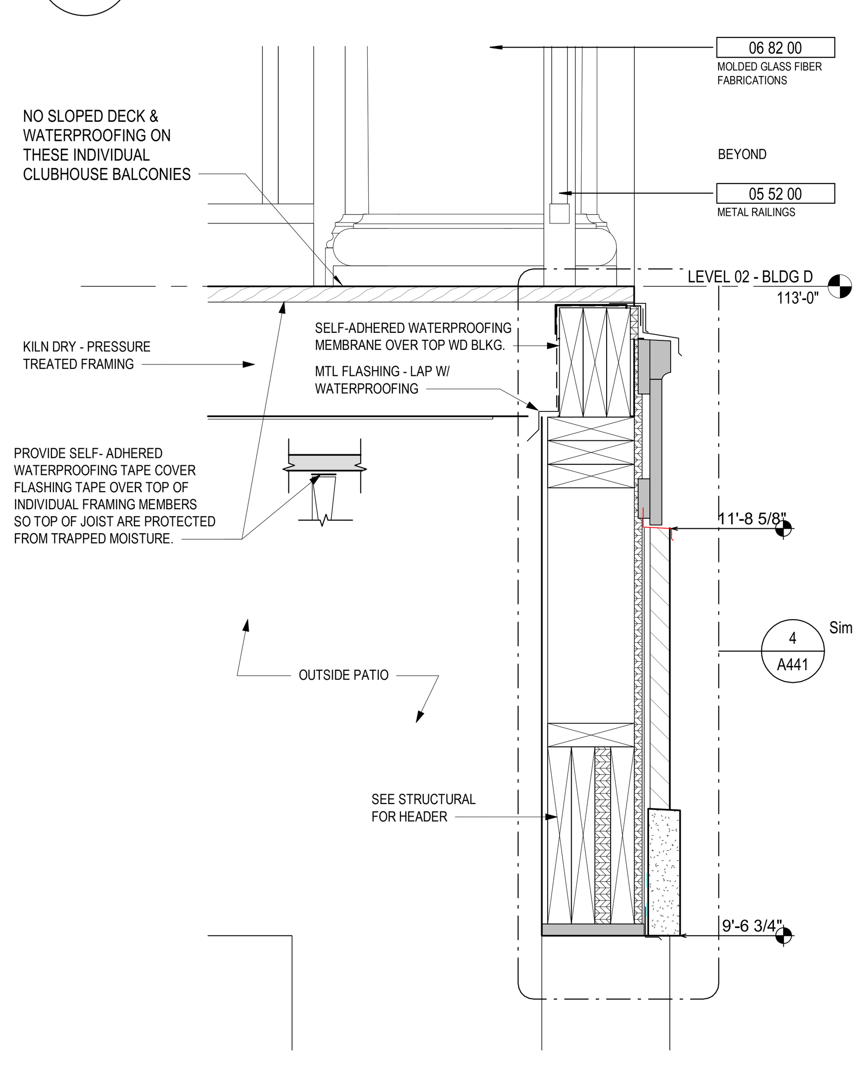
2 DETAIL CLUBHOUSE - WINDOW HEAD & ROOF SOFFIT
3" = 1'-0" REF: 1 / A422



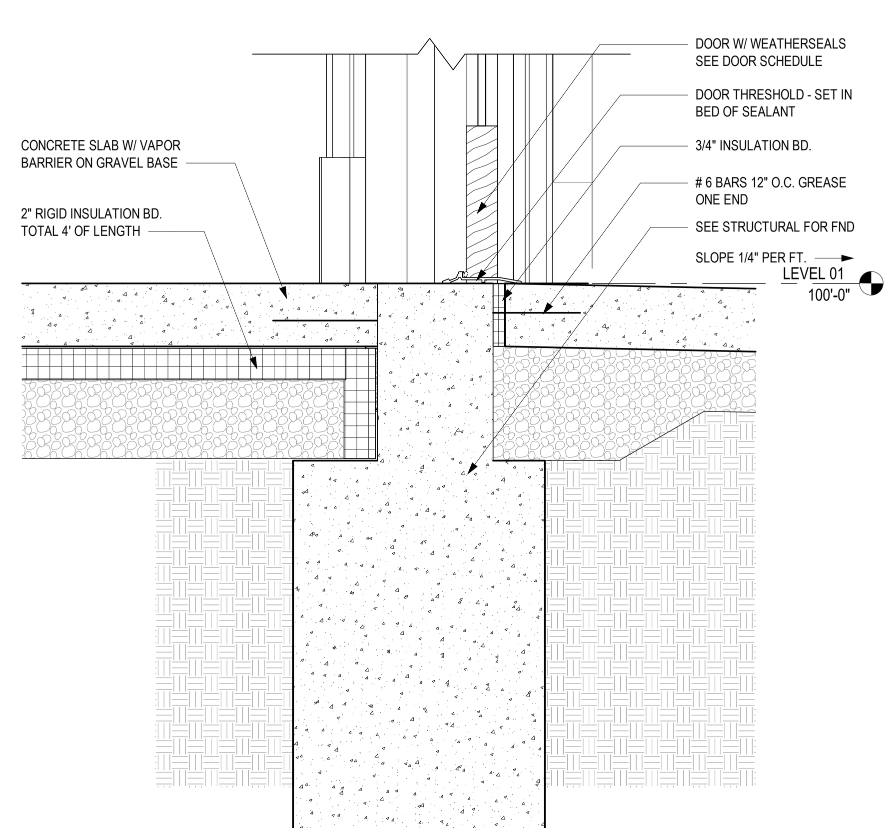
12 DETAIL BLDG D - SLIDING DR HEAD AT SIDING
3" = 1'-0" REF: 1 / A421



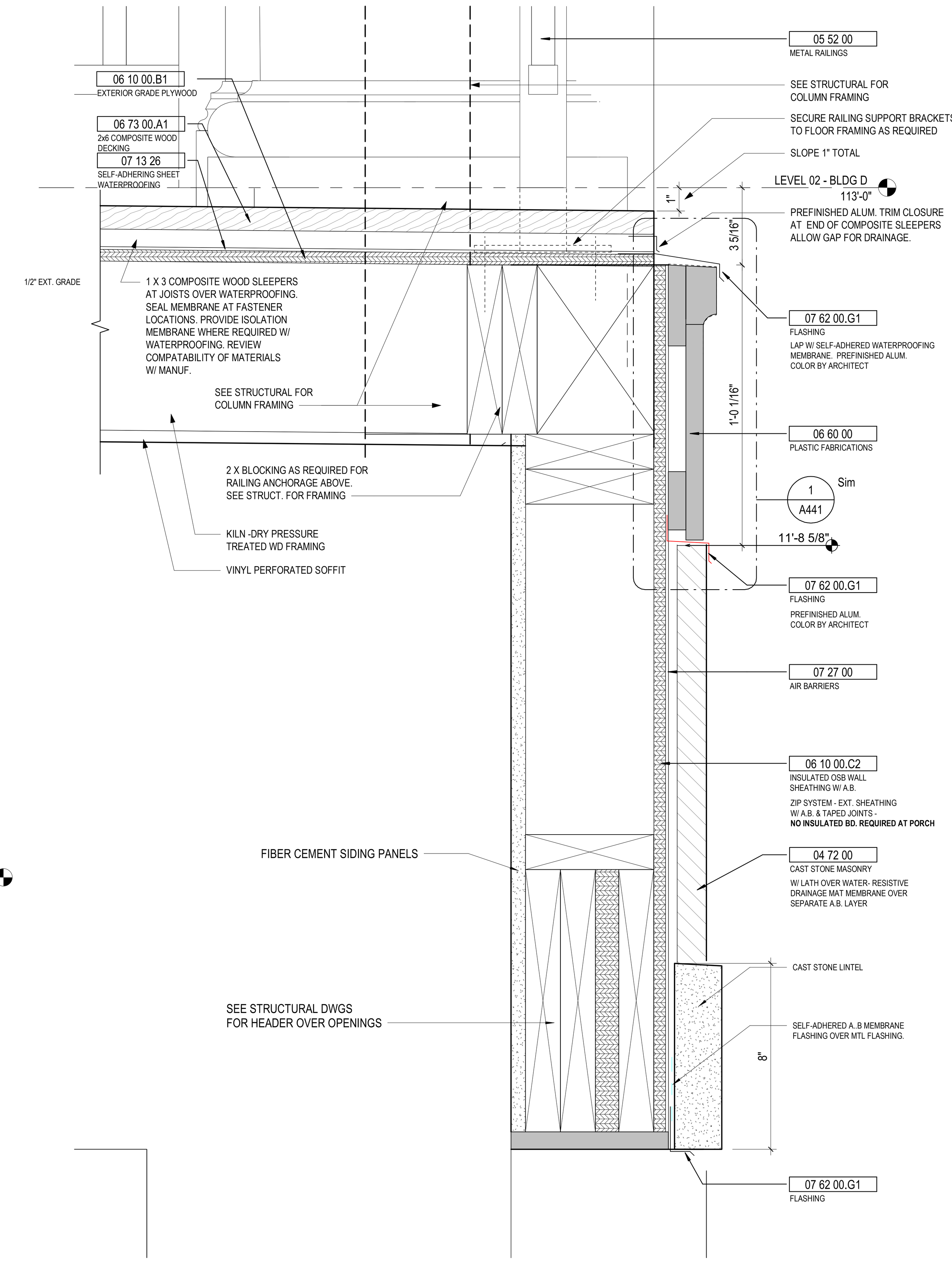
8 DETAIL CLUBHOUSE- 2ND FL DR. SILL BALCONY & 1ST FL S.F. DR. HEAD
1 1/2" = 1'-0" REF: 2 / A422



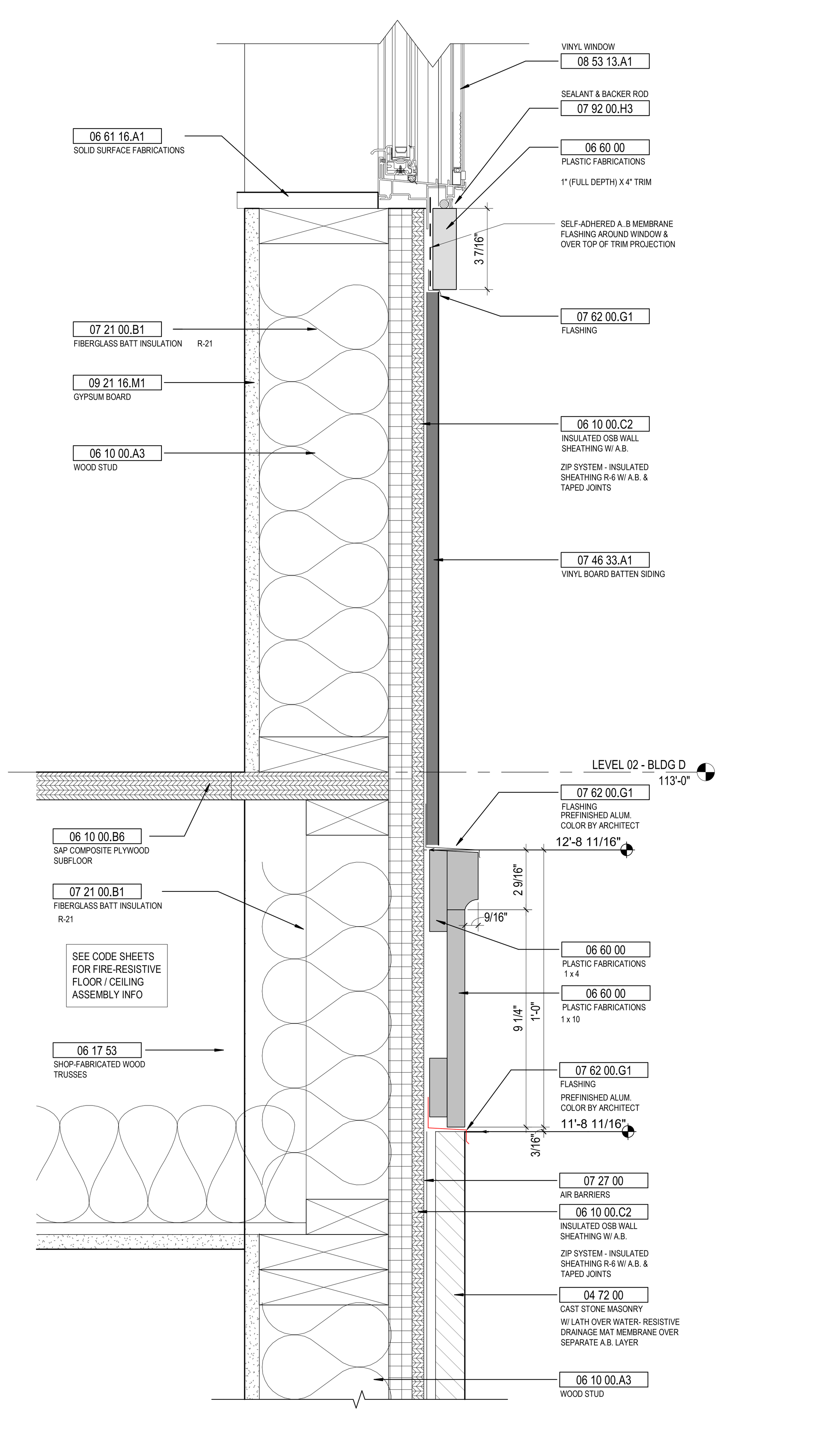
11 DETAIL CLUBHOUSE - BALCONY EDGE @ 2ND FL.
1 1/2" = 1'-0" REF: 1 / A421



7 DETAIL CLUBHOUSE BLDG. D - DR. THRESHOLD
1 1/2" = 1'-0" REF: 2 / A422



4 DETAIL CLUBHOUSE 2ND FL BALCONY AT ENTRY
3" = 1'-0" REF: 2 / A422



1 DETAIL CLUBHOUSE - WINDOW SILL & EXT. 2ND FL TRIM
3" = 1'-0" REF: 1 / A422

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A3	WOOD STUD
06 10 00.B1	EXTERIOR GRADE PLYWOOD
06 10 00.B6	SAP COMPOSITE PLYWOOD SUBFLOOR
06 10 00.C1	OSB SHEATHING
06 10 00.C2	INSULATED OSB WALL SHEATHING W/ A.B.
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 60 00	PLASTIC FABRICATIONS
06 61 16.A1	SOLID SURFACE FABRICATIONS
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
06 82 00	MOLDED GLASS FIBER FABRICATIONS
07 13 26	SELF-ADHERING SHEET WATERPROOFING
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.B2	R-21 FIBERGLASS BATT INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 27 00	AIR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.B1	ROOFING FELT UNDERLAYMENT
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 54 23.A2	FULLY ADHERED TPO ROOFING
07 62 00.A1	GUTTER
07 62 00.E2	FORMED COPING
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
07 92 00.H3	SEALANT & BACKER ROD
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 53 13.A1	VINYL WINDOW
09 21 16.M1	GYPSUM BOARD
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
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300 SPRUCE STREET
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PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EXTERIOR DETAILS - SECTION

PROGRESS DRAWING NOT FOR CONSTRUCTION

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A441

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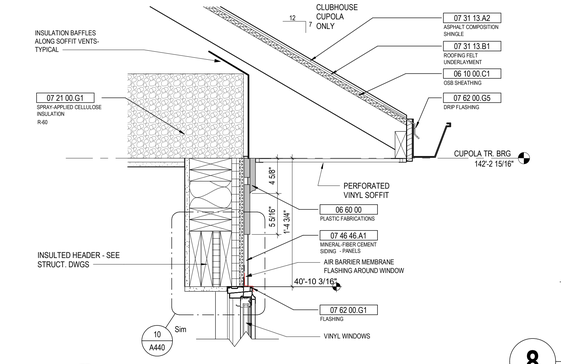
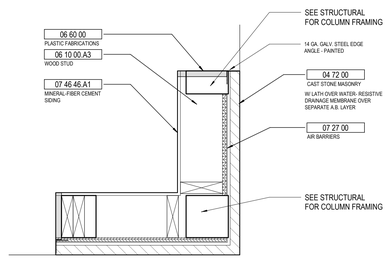
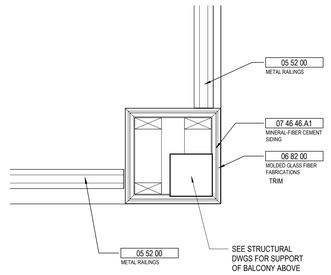


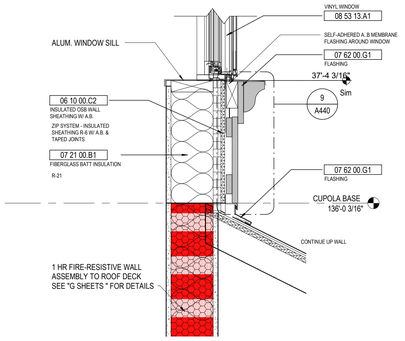
12 DETAIL BLDG. D - CLUBHOUSE AT CUPOLA / WINDOW HEAD
1 1/2" = 1'-0" REF: 4 / A422



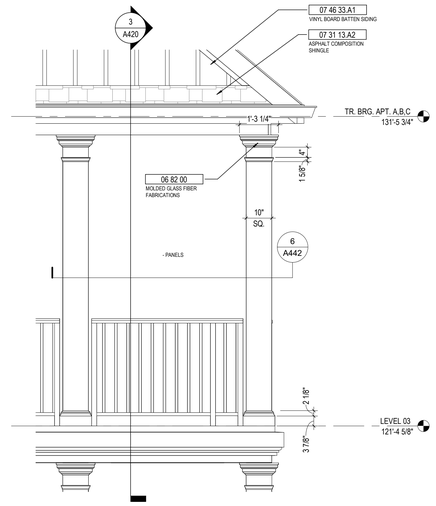
8 DETAIL LEVEL 01 - CLUBHOUSE BALCONY CORNER COLUMN
1 1/2" = 1'-0" REF: 1 / A106D



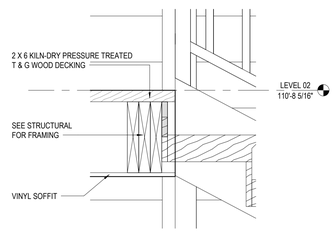
4 DETAIL LEVEL 01 - PATIO CORNER WALL
1 1/2" = 1'-0" REF: 1 / A101A



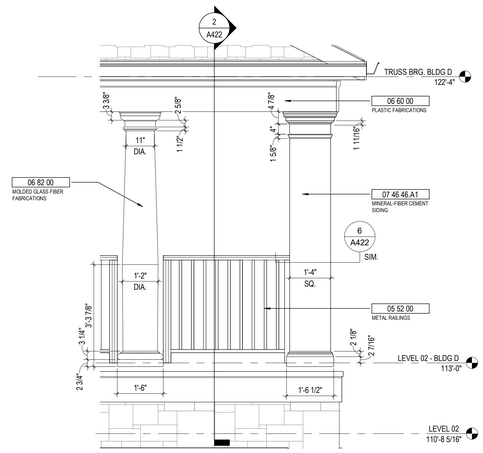
11 DETAIL BLDG. D - CLUBHOUSE AT CUPOLA / WINDOW SILL
1 1/2" = 1'-0" REF: 4 / A422



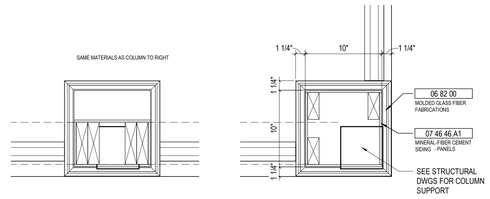
7 ELEVATION BLDG. TYPE A - 3RD FL BALCONY COLUMNS
1/2" = 1'-0" REF: 3 / 100-A



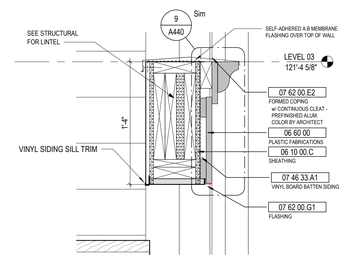
3 DETAIL BREEZEWAY - FLOOR EDGE W/ RAILING
1 1/2" = 1'-0" REF: 2 / A421



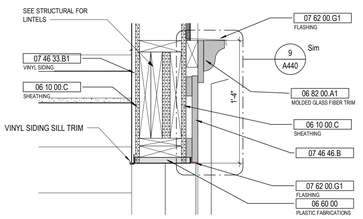
10 ELEVATION LEVEL 02 - CLUBHOUSE BALCONY
1/2" = 1'-0" REF: 2 / 102-D



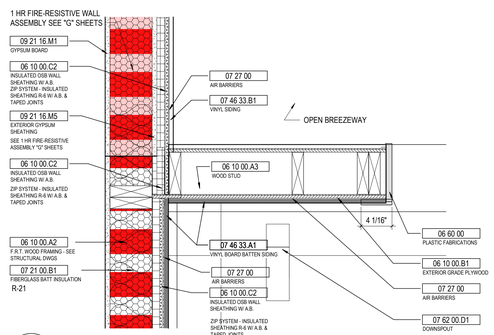
6 DETAIL LEVEL 03 - BALCONY COLUMNS
1 1/2" = 1'-0" REF: 1 / A102A



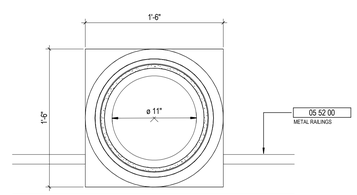
2 DETAIL BREEZEWAY EXT. WALL AT LEVEL 03
1 1/2" = 1'-0" REF: 2 / A421



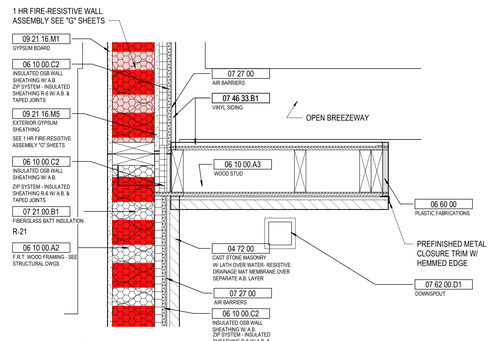
14 DETAIL BREEZEWAY OPNG - HEAD
1 1/2" = 1'-0" REF: 2 / A421



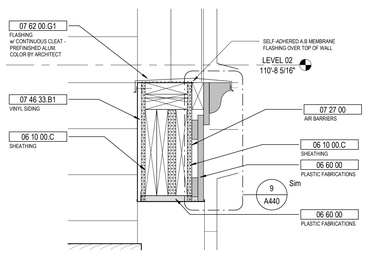
13 DETAIL LEVEL 02 & 03 - BLDG A - BREEZEWAY OPNG JAMB TRIM
1 1/2" = 1'-0" REF: 2 / A101A



9 DETAIL LEVEL 02 - CLUBHOUSE BALCONY COLUMN
1 1/2" = 1'-0" REF: 2 / A106D



5 DETAIL LEVEL 01- BREEZEWAY END WALL
1 1/2" = 1'-0" REF: 1 / A101A



1 DETAIL BREEZEWAY - EXT. WALL TRIM AT LEVEL 02
1 1/2" = 1'-0" REF: 2 / A421

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00	CAST STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A2	F.R.T. WOOD FRAMING - SEE STRUCTURAL DWGS
06 10 00.A3	WOOD STUD
06 10 00.B1	EXTERIOR GRADE PLYWOOD
06 10 00.C	SHEATHING
06 10 00.C1	OSB SHEATHING
06 10 00.C2	INSULATED OSB WALL SHEATHING W/ A.B.
06 60 00	PLASTIC FABRICATIONS
06 82 00	MOLDED GLASS FIBER FABRICATIONS
06 82 00.A1	MOLDED GLASS FIBER TRIM
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 27 00	AIR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.B1	ROOFING FELT UNDERLAYMENT
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 46 46.A1	MINERAL-FIBER CEMENT SIDING
07 46 46.B	
07 62 00.D1	DOWNSPOUT
07 62 00.E2	FORMED COPING
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
08 53 13.A1	VINYL WINDOW
09 21 16.M1	GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EXTERIOR DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A442
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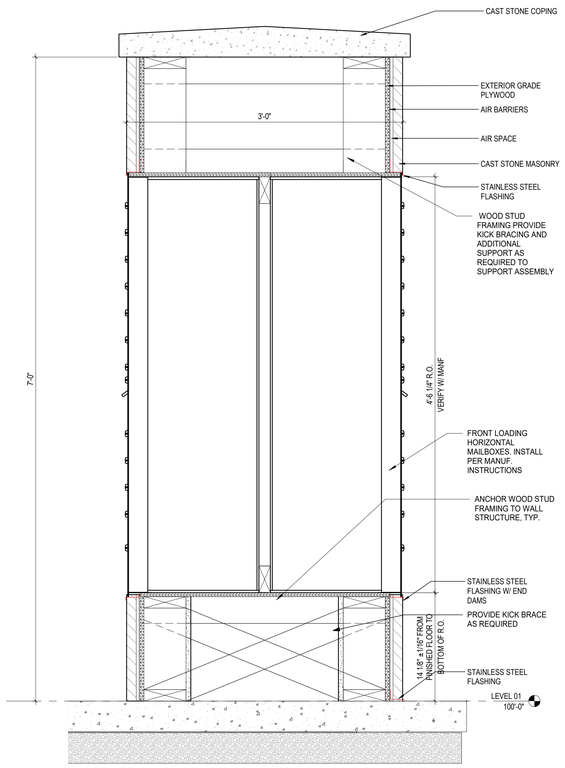
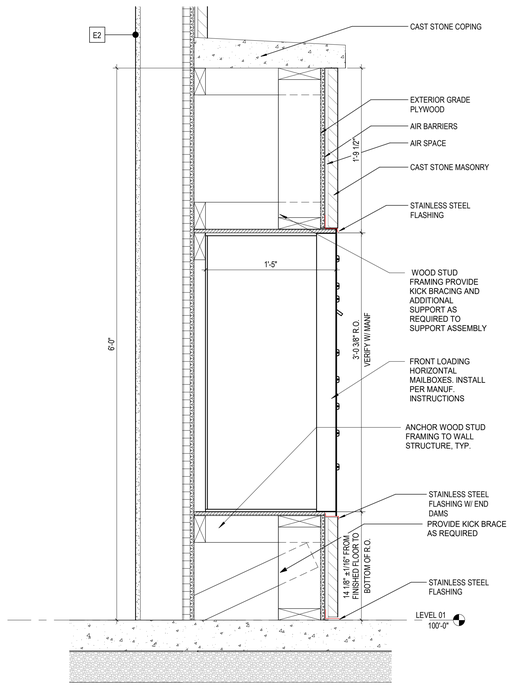


2 **DETAIL** DOUBLE MAILBOXES
1 1/2" = 1'-0" REF: 3 / A422



1 **DETAIL** SINGLE MAILBOXES
1 1/2" = 1'-0" REF: 3 / A404D

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 00 00.X4	STAINLESS STEEL FLASHING
04 00 00.X17	STAINLESS STEEL FLASHING W/ END DAMS
04 00 00.Z1	AIR SPACE
04 72 00	CAST STONE MASONRY
04 72 00.A6	CAST STONE COPING
06 10 00.B1	EXTERIOR GRADE PLYWOOD
07 27 00	AIR BARRIERS

#	DATE	CHANGE DESCRIPTION

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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EXTERIOR DETAILS

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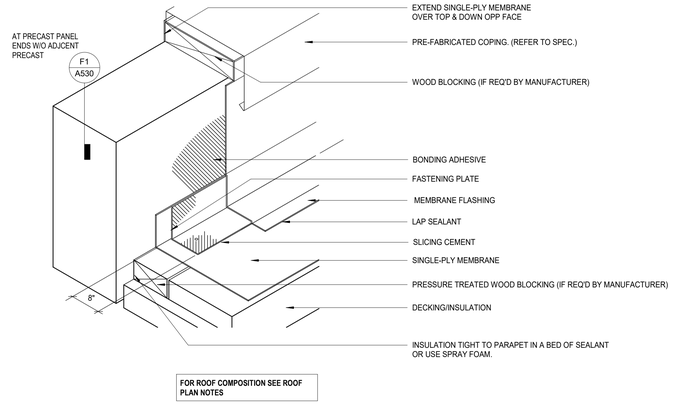
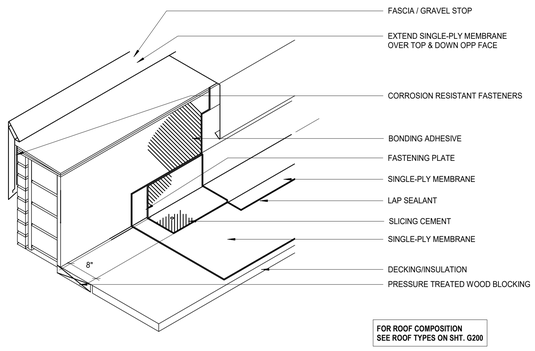
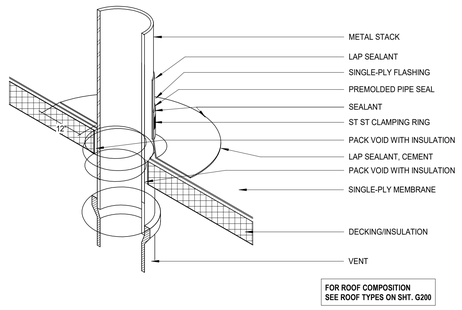


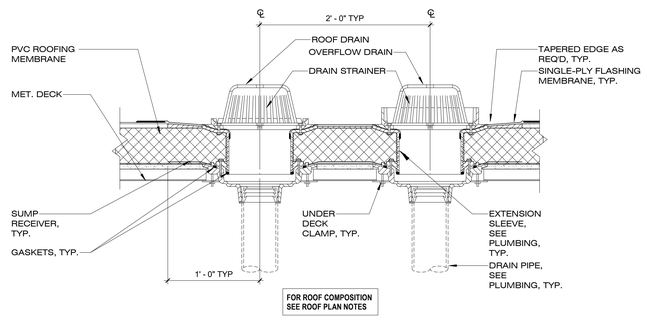
4 TYPICAL PARAPET COPING
1/2" = 1'-0"



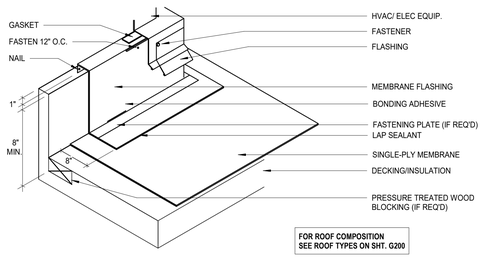
3 GRAVEL STOP TERMINATION
1/2" = 1'-0"



2 ROOF PIPE PENETRATION
1/2" = 1'-0"



1 ROOF DRAINS
1 1/2" = 1'-0"



5 TYPICAL ROOF CURB
1/2" = 1'-0"

GENERAL NOTES - ROOF DETAILS

1. X

KEYNOTE LEGEND

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ROOF DETAILS

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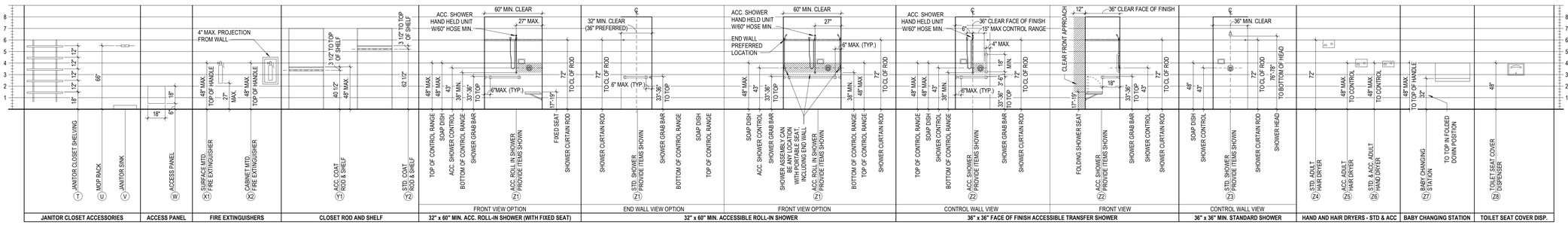
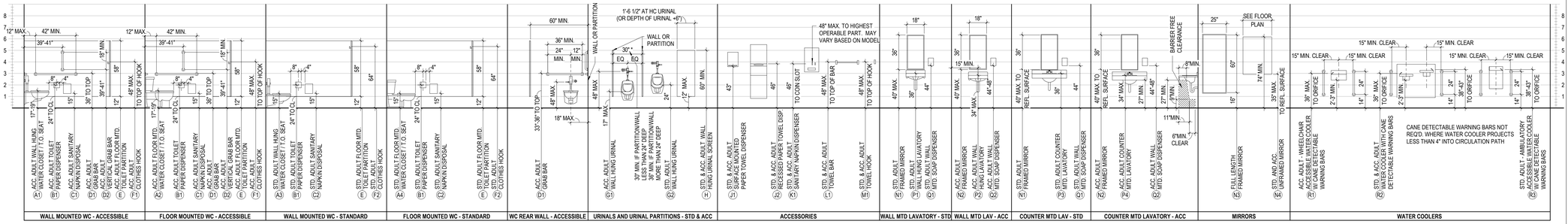
GENERAL NOTES - MOUNTING HEIGHTS

1. **ACC.** INDICATES ACCESSIBLE FIXTURE
   STD. INDICATES STANDARD FIXTURE
   PK-K INDICATES FIXTURE INTENDED FOR PRE-KINDERGARTEN THROUGH KINDERGARTEN STUDENTS
   ELEM. INDICATES FIXTURE INTENDED FOR ELEMENTARY SCHOOL STUDENTS
   MIDDLE INDICATES FIXTURE INTENDED FOR MIDDLE SCHOOL STUDENTS
   ADULT INDICATES FIXTURE INTENDED FOR HIGH SCHOOL STUDENTS AND/OR ADULTS
2. GENERAL CONTRACTOR SHALL COORDINATE TOILET FIXTURE LOCATIONS WITH PLUMBING CONTRACTOR WITH RESPECT TO FLUSH VALVE HEIGHT AND HORIZONTAL LOCATION VS. GRAB BAR LOCATIONS.

   NOTE: GRAB BAR HEIGHT IS BASED ON ADAAG AND CANNOT BE CHANGED
   TOP OF SEAT HEIGHT IS BASED ADAAG AND CANNOT BE CHANGED
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISH FLOOR (CRITICAL FOR ADA COMPLIANCE)
4. ALL DIMENSIONS ARE TO FACE OF FINISHED WALL (CRITICAL FOR ADA COMPLIANCE)
5. ALL DIMENSIONS TO CONTROLS ARE TO TOP OF BUTTON, LEVER OR KNOB
6. WHERE TOILET IS INDICATED TO BE "WALL MOUNTED OR FLOOR MOUNTED" REFER TO PLUMBING DRAWINGS FOR EXACT FIXTURE



2 MISCELLANEOUS MOUNTING HEIGHTS



1 ADULT FIXTURE MOUNTING HEIGHTS

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COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
MOUNTING HEIGHTS

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

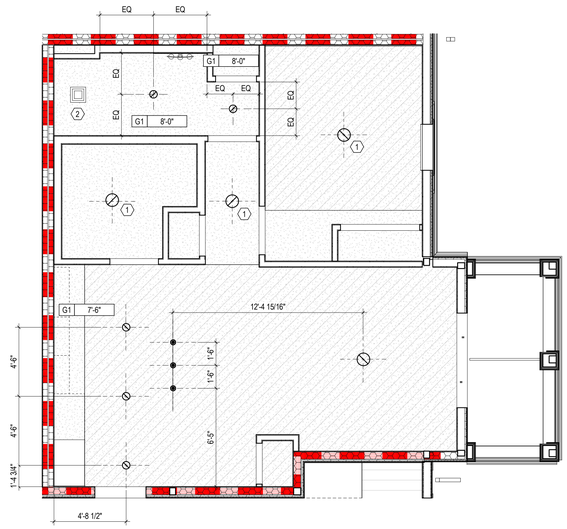
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

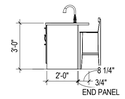
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

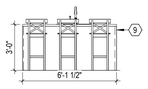
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



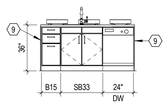
2 RCP 1- BED UNIT (ANSI TYPE B)
1/4" = 1'-0"



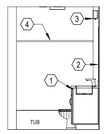
6 ELEVATION ISLAND END ELEVATION
1/4" = 1'-0" REF: 2 / 100-A



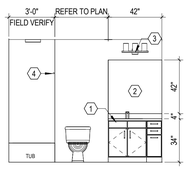
5 ELEVATION ISLAND - BACK SIDE ELEVATION
1/4" = 1'-0" REF: 2 / 100-A



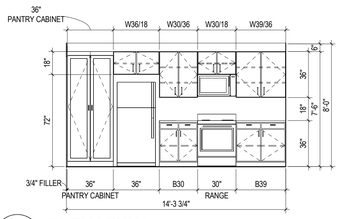
4 ELEVATION KITCHEN TYPE B ISLAND
1/4" = 1'-0" REF: 1 / A501



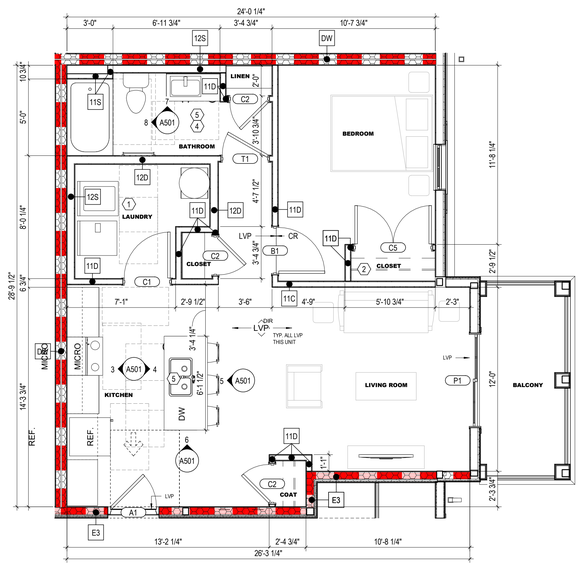
8 ELEVATION BATHROOM 1 TUB WALL
1/4" = 1'-0" REF: 2 / 100-A



7 ELEVATION BATHROOM 1 WET WALL
1/4" = 1'-0" REF: 2 / 100-A



3 ELEVATION KITCHEN TYPE B
1/4" = 1'-0" REF: 1 / A501



1 ENLARGED PLAN 1-BED UNIT (ANSI TYPE B)
1/4" = 1'-0" REF: 2 / A101A

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE. U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR. REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE B UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS. LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE "WOOD-LOOK" RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE. PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSMHA.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

ENLARGED UNIT PLANS - 1 BED

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A501

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:46 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project/_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WOOD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	(_)
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

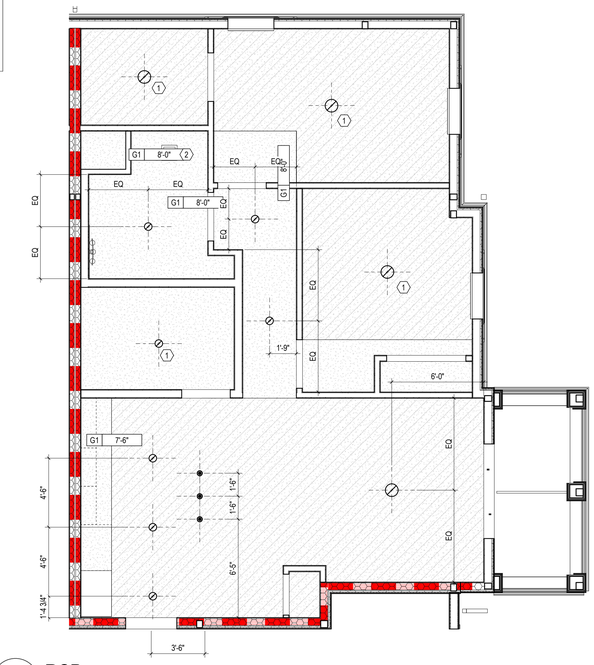
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



2 **RCP** 2 BED - UNIT (ANSI TYPE B)
1/4" = 1'-0"

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR. REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

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M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
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R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE. PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS.
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF. AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

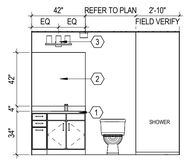
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED

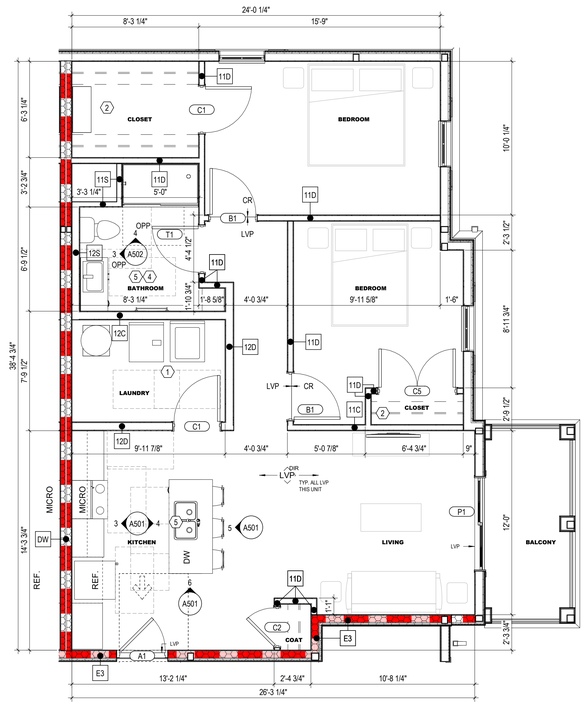
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A502
CD PROGRESS SET

4 **ELEVATION** BATHROOM 2 SHOWER WALL
1/4" = 1'-0" REF: 2 / 100-A



3 **ELEVATION** BATHROOM 2 WET WALL
1/4" = 1'-0" REF: 2 / 100-A



1 **ENLARGED PLAN** 2 - BED UNIT (ANSI TYPE B)
1/4" = 1'-0" REF: 2 / A101A

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:25 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

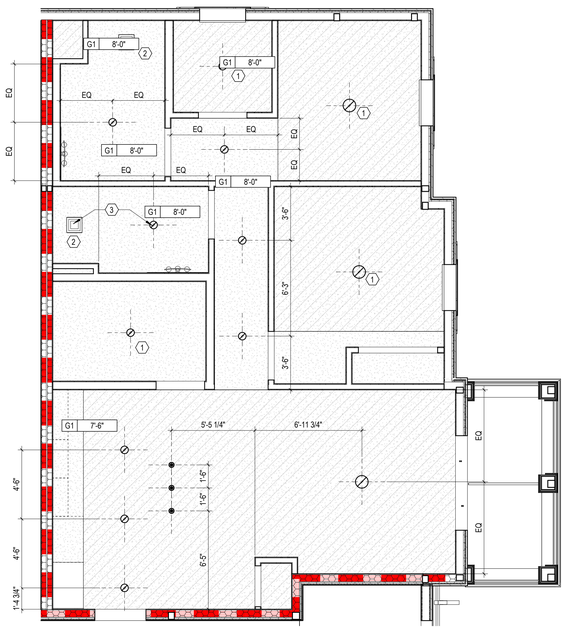
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

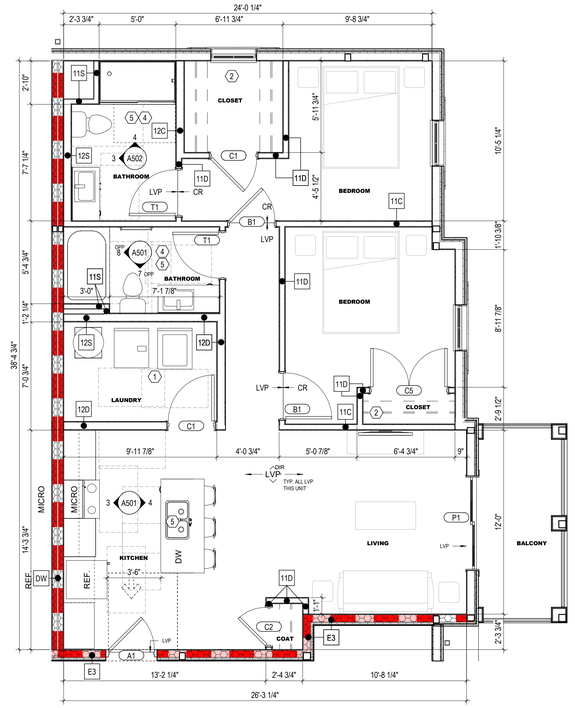
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



2 RCP 2 BEDROOM 2 BA
1/4" = 1'-0"



1 ENLARGED PLAN 2 BEDROOM 2 BA UNIT
1/4" = 1'-0"
REF: 1 / A105C

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE. U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS. LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE. PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS, OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED 2 BA

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A503
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:55 PM
FILE NAME: Autodesk Docs://23446_CMHA Refugee Rd Housing Dnprnt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

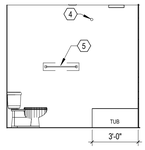
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

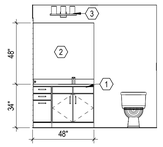
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

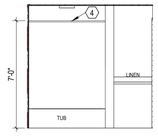
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



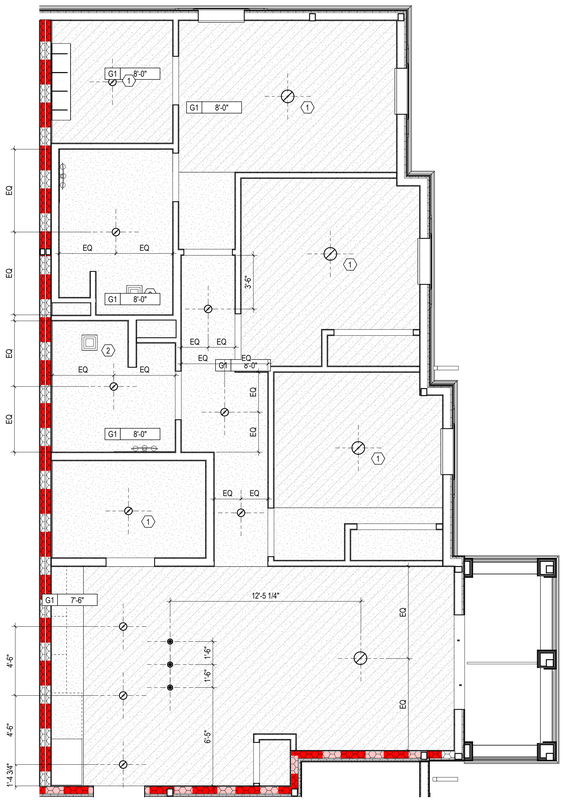
4 ELEVATION BATHROOM 3
1/4" = 1'-0" REF: 2 / A103B



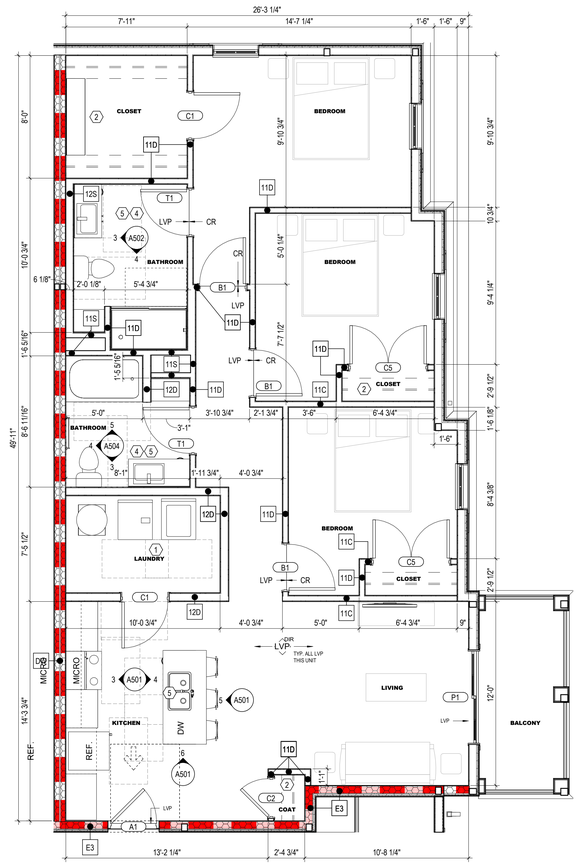
3 ELEVATION BATHROOM 3 WET WALL
1/4" = 1'-0" REF: 2 / A103B



5 ELEVATION BATHROOM 3 - TUB WALL
1/4" = 1'-0" REF: 2 / A103B



2 RCP 3 BEDROOM UNIT
1/4" = 1'-0"



1 ENLARGED PLAN 3 BEDROOM UNIT
1/4" = 1'-0" REF: 2 / A103B

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE. U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS. LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE. PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

ENLARGED UNIT PLANS - 3 BED

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A504

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:02:29 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dylpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

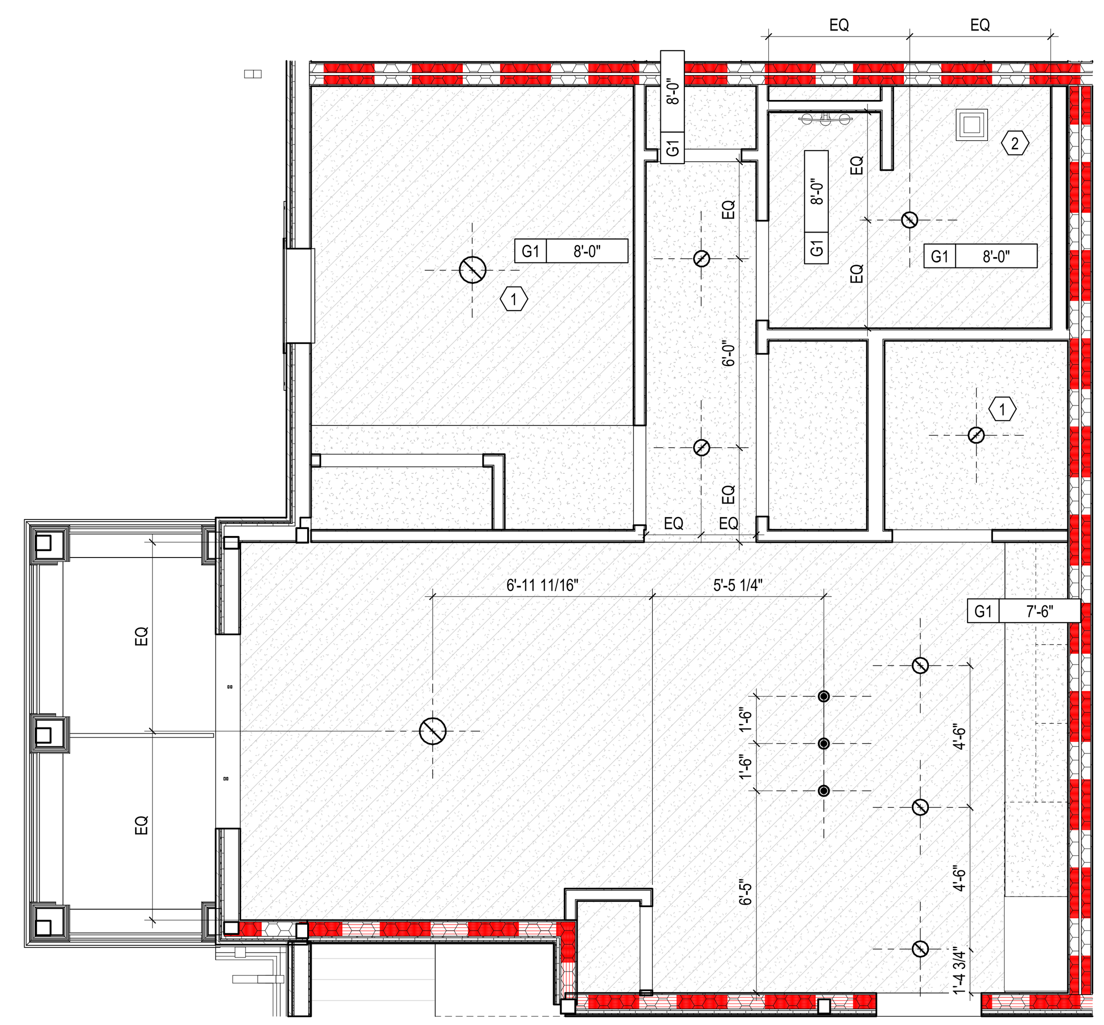
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

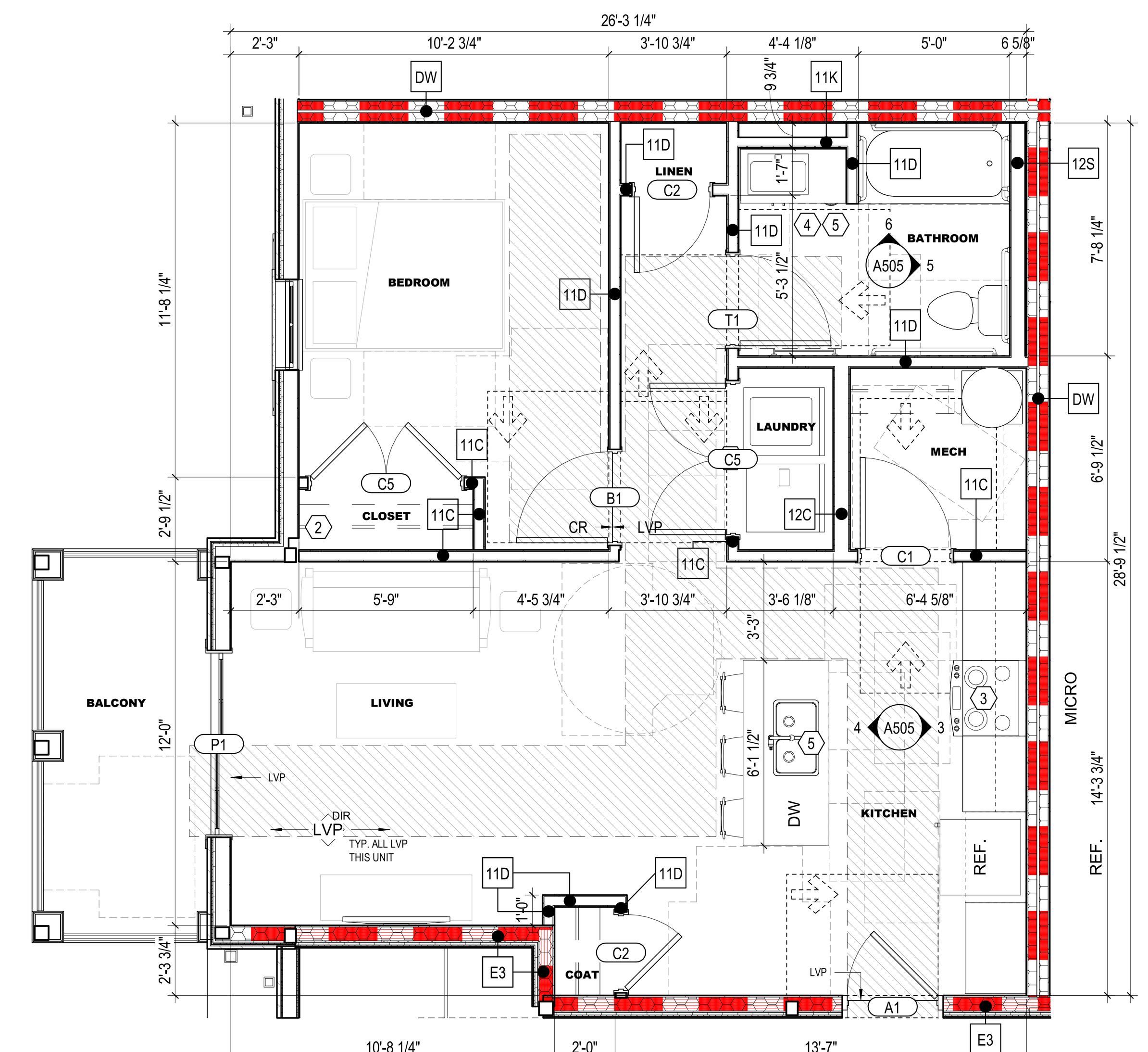
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

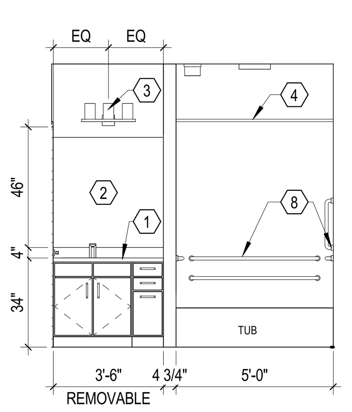
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



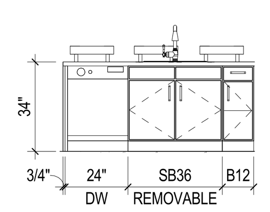
2 RCP 1 BED - ANSI TYPE A
1/4" = 1'-0"



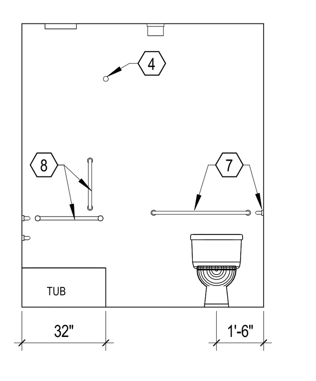
1 ENLARGED PLAN 1 BED - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A101A



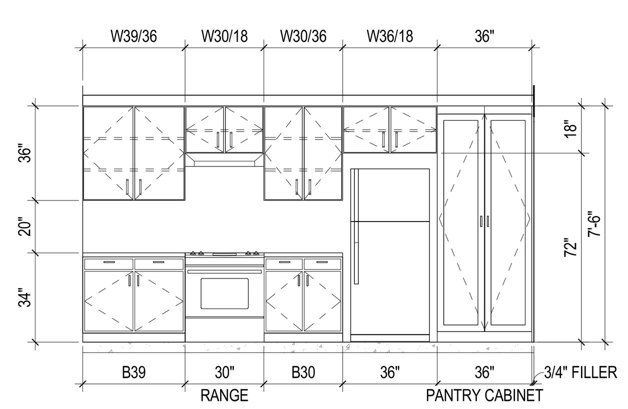
6 ELEVATION BATHROOM 4 TUB WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / 100-A



4 ELEVATION ISLAND - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A505



5 ELEVATION BATHROOM 4 TOILET WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / 100-A



3 ELEVATION KITCHEN ANSI TYPE - A
1/4" = 1'-0" REF: 1 / A505

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
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KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 1 BED ANSI TYPE A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A505
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:03 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

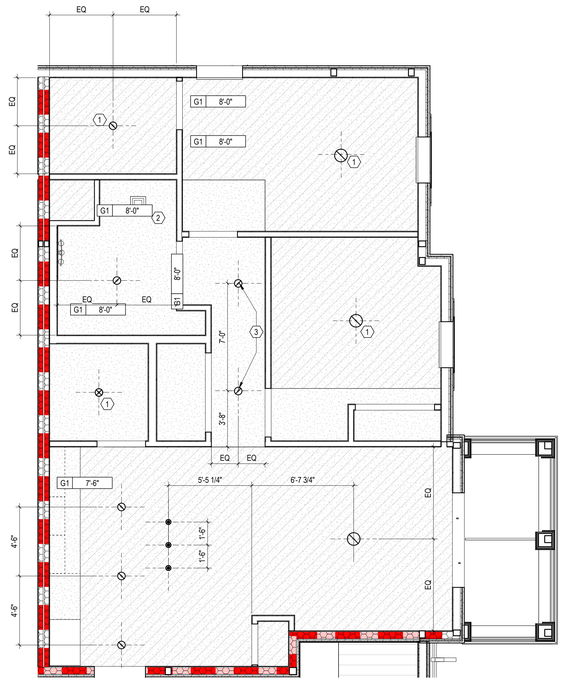
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

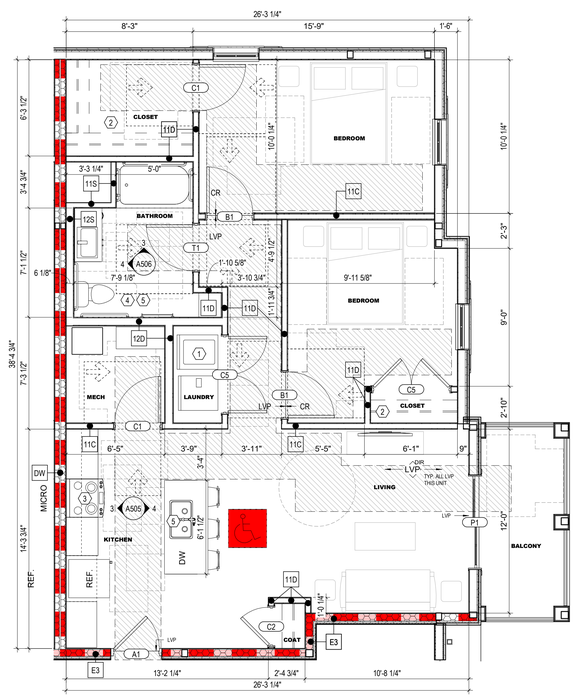
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

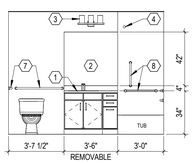
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



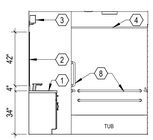
2 **RCP** 2 BEDROOM - ANSI TYPE A
1/4" = 1'-0"



1 **ENLARGED PLAN** 2 BEDROOM - ANSI TYPE A
1/4" = 1'-0"



4 **ELEVATION** BATHROOM 5 WET WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A506



3 **ELEVATION** BATHROOM 5 TUB WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A506

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE. U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS. LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

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5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED ANSI TYPE A

05/01/2025
23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

A506

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:06 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710-711 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

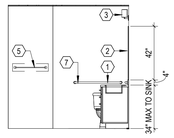
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

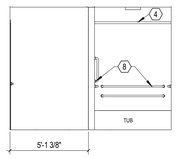
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

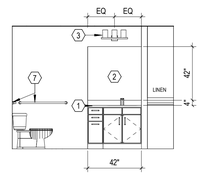
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



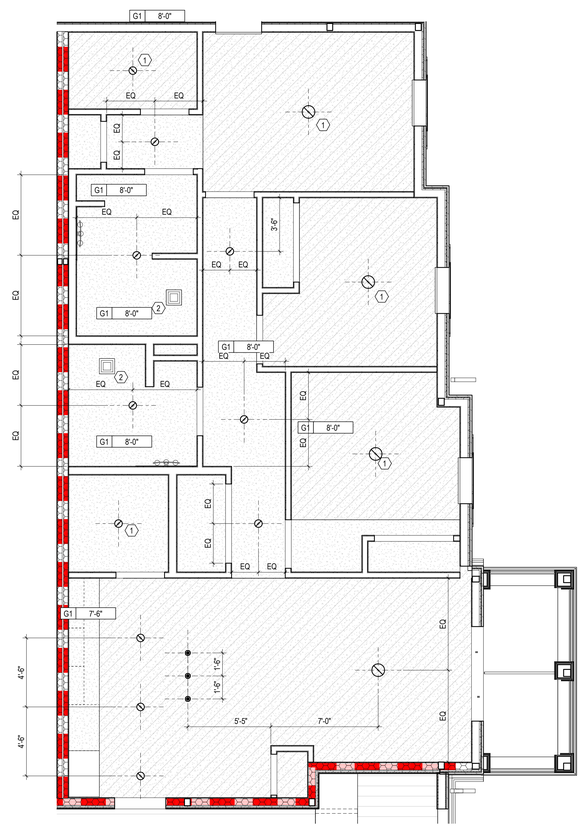
5 **ELEVATION** BATHROOM 5 TOILET WALL - ANSI TYPE A
1/4" = 1'-0"
REF: 1 / A507



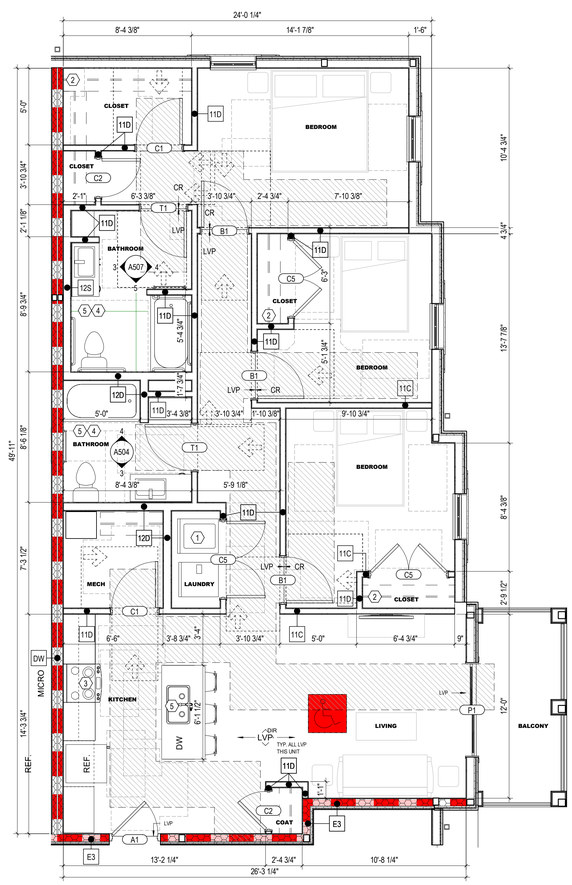
4 **ELEVATION** BATHROOM 5 SHOWER WALL - ANSI TYPE A
1/4" = 1'-0"
REF: 1 / A507



3 **ELEVATION** BATHROOM 6 LAV WALL- ANSI TYPE A
1/4" = 1'-0"
REF: 1 / A507



2 **RCP** 3 BEDROOM UNIT - ANSI TYPE A
1/4" = 1'-0"



1 **ENLARGED PLAN** 3 BEDROOM - ANSI TYPE A
1/4" = 1'-0"
REF: 1 / A103B

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE. U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE B UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS. LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE. PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

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NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS, OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 3 BED ANSI TYPE A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A507
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:10 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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DOOR SCHEDULE - TYPICAL INTERIOR UNIT

			DOOR				FRAME		FIRE RATING	HDW SET	DETAILS-SHEET A*710-711* (U.N.O.)			
REVISION	MARK	DOOR TYPE	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV			HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

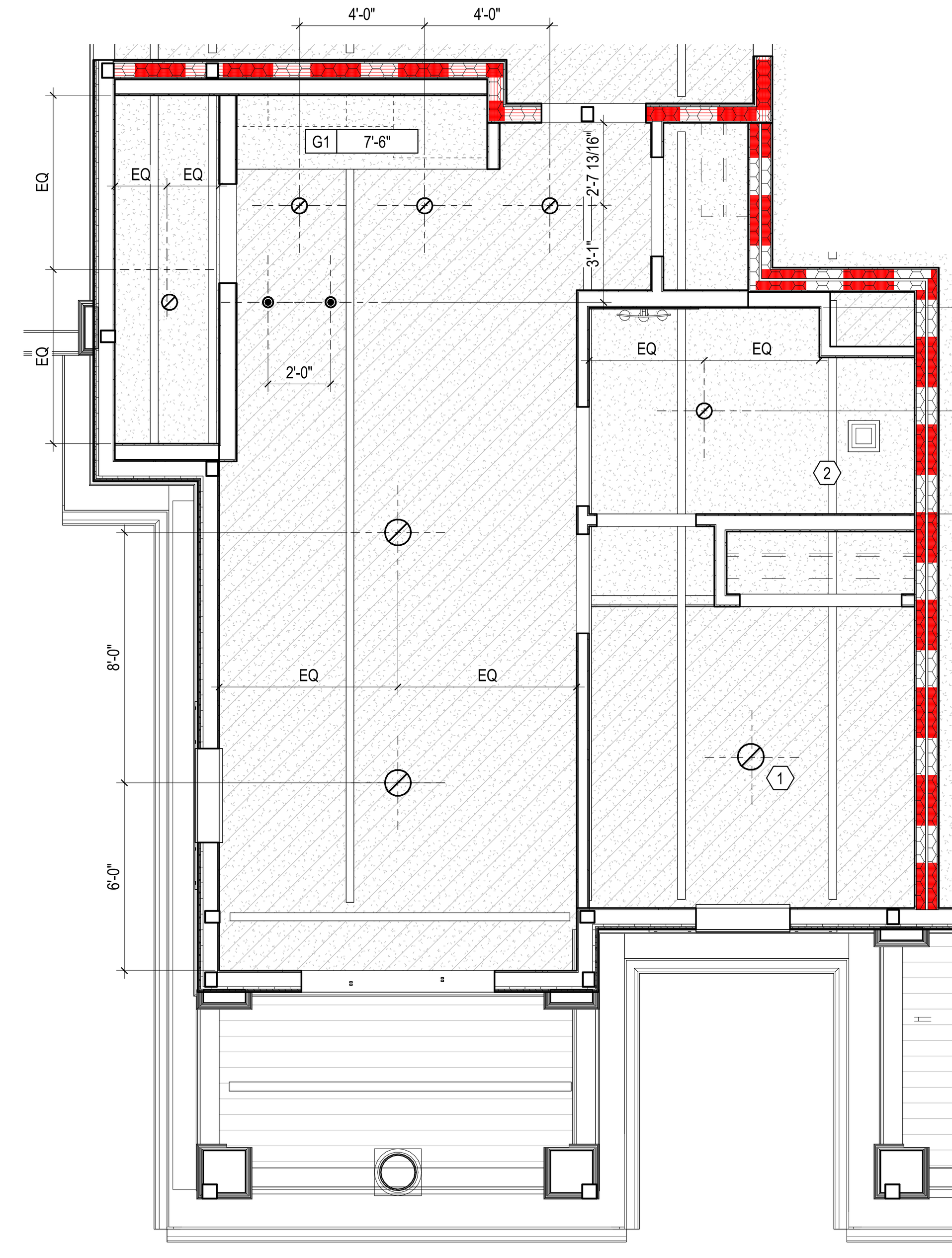
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

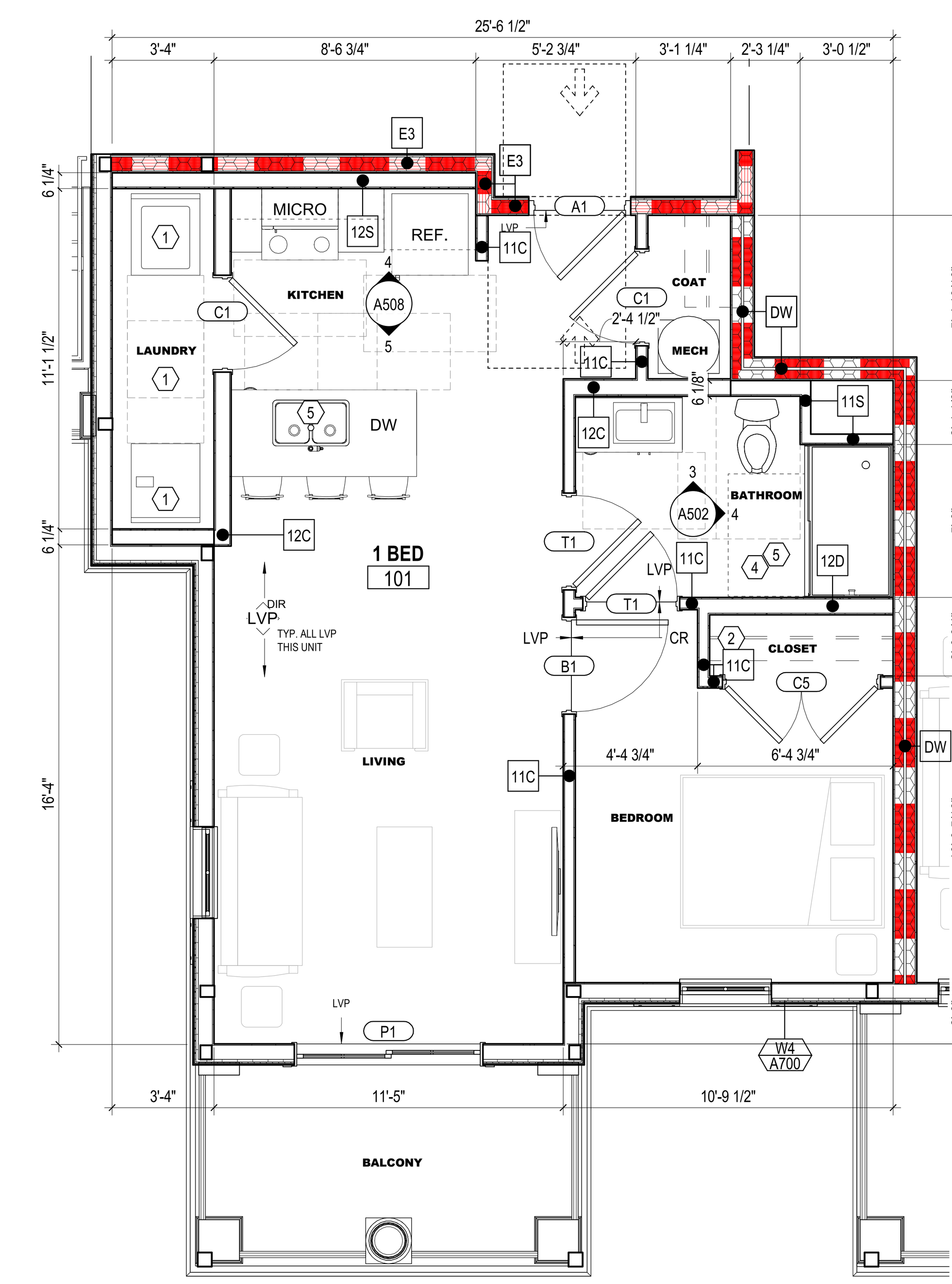
ROOM NAME	FLOOR		BASE		WALLS		REMARKS	KEYED REMARKS
	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR		
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

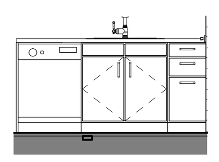
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



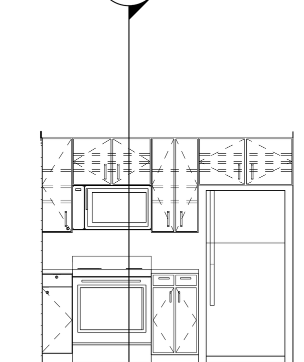
2 RCP 1 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



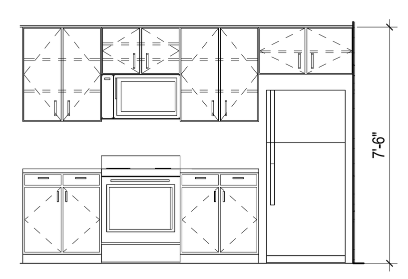
1 PLAN 1 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



5 ELEVATION ISLAND - CLUBHOUSE UNITS
1/4" = 1'-0" REF: 1 / A508



4 ELEVATION KITCHEN - 1 BED CLUBHOUSE
1/4" = 1'-0" REF: 1 / A508



3 ELEVATION KITCHEN - 3 BED CLUBHOUSE
1/4" = 1'-0" REF: 1 / A509

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

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UNIT FINISH SCHEDULE

ROOM NAME	FLOOR		BASE		WALLS		REMARKS	KEYED REMARKS
	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR		
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
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B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

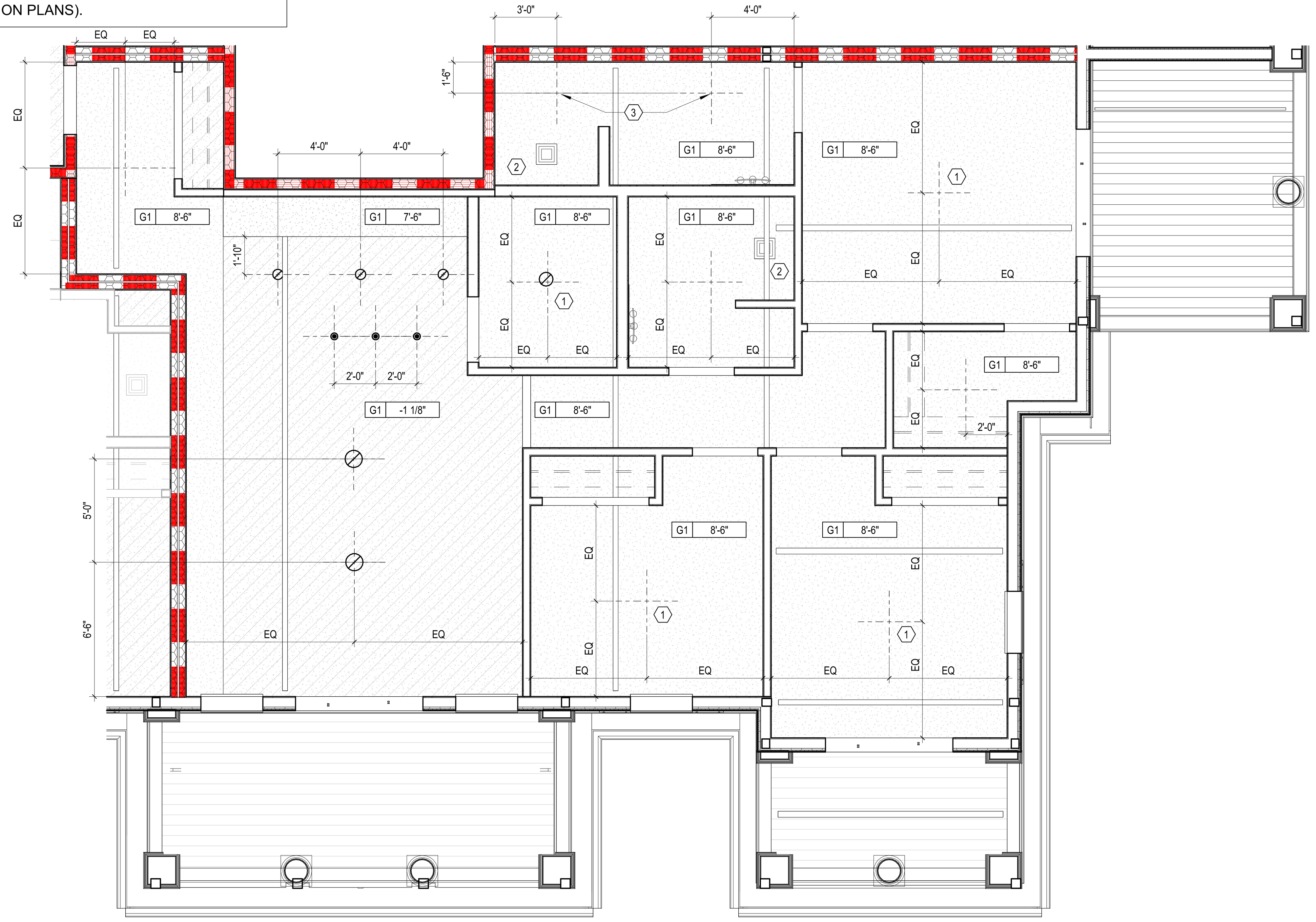
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

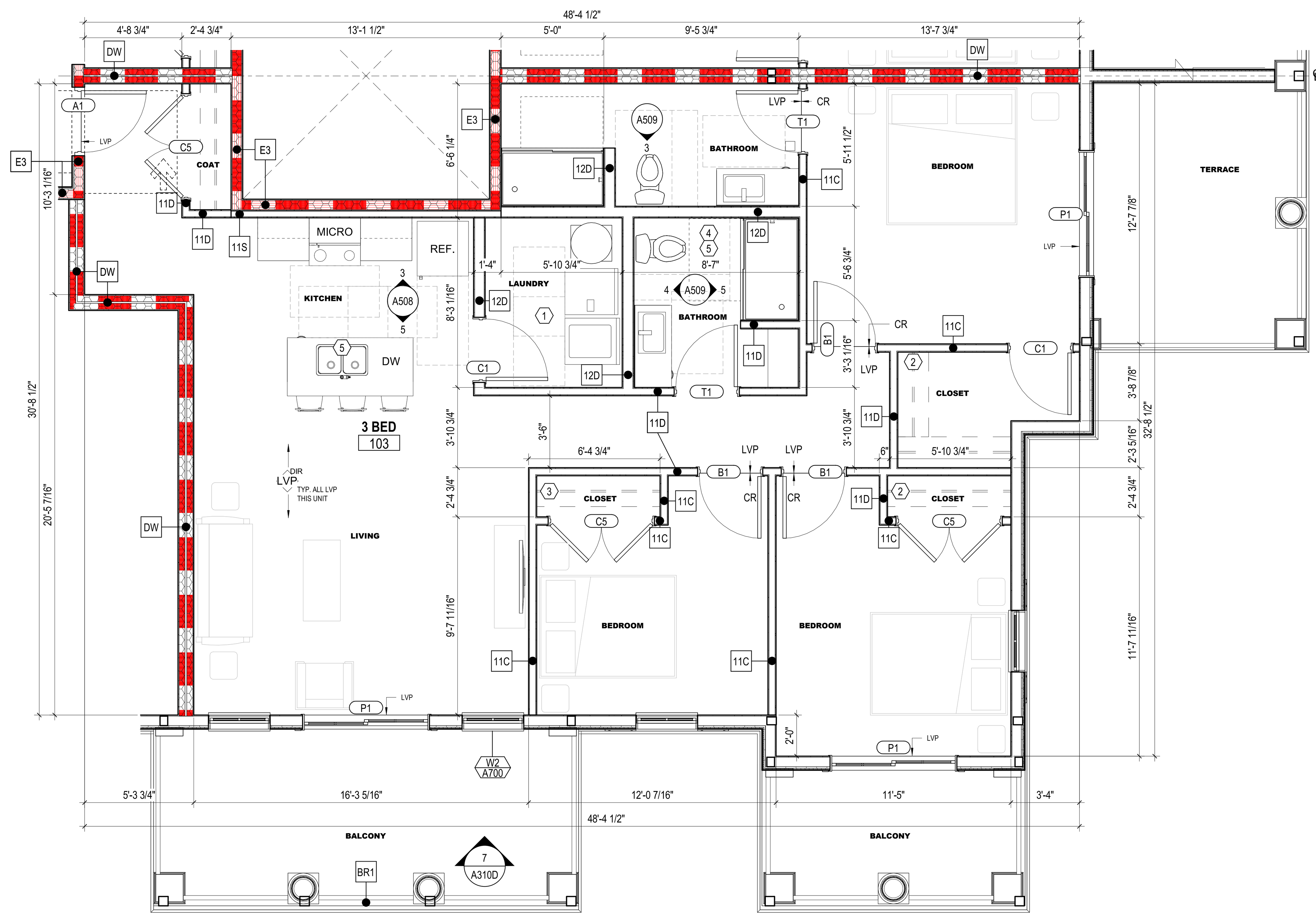
REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A*710-711* (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	-	-	-	-	
	B1	BEDROOM	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C1	CLOSET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C2	CLOSET	2'-6"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C3	CLOSET	2'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	WD	1	-	-	-	-	-	
	T1	TOILET	3'-0"	7'-0"	WD	AP	WD	1	-	-	-	-	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	-	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	-	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

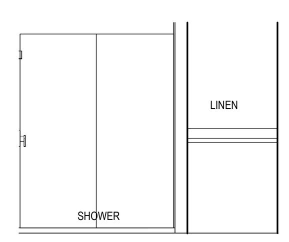
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Wood Doors	(WD)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)



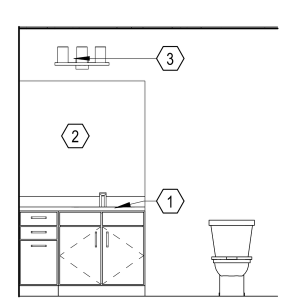
2 **RCP** 3 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



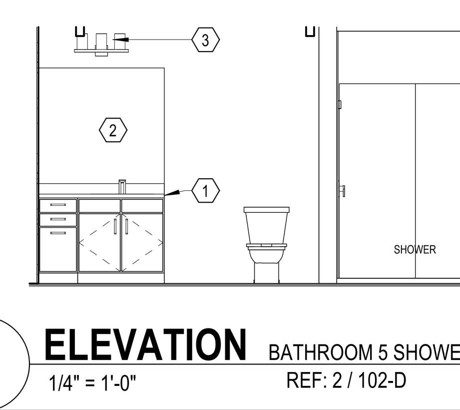
1 **ENLARGED PLAN** 3 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0" REF: 2 / A106D



5 **ELEVATION** BATHROOM 6 SHOWER WALL
1/4" = 1'-0" REF: 2 / 102-D



4 **ELEVATION** BATHROOM 6 WET WALL
1/4" = 1'-0" REF: 2 / 102-D



3 **ELEVATION** BATHROOM 5 SHOWER WALL
1/4" = 1'-0" REF: 2 / 102-D

ENL. UNIT RCP GEN. NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GEN. NOTES - INTERIOR ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - INTERIOR ELEVATIONS

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS TO BE AT 34" AFF.
2. SQUARE EDGE VANITY MIRROR.
3. VANITY LIGHT FIXTURE. MOUNT HORIZONTALLY AND CENTER ABOVE THE MIRROR, REFER TO ELECTRICAL DRAWINGS.
4. SHOWER CURTAIN ROD.
5. TOWEL BAR.
6. END PANEL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. PAPER TOWEL HOLDER.

ENL. UNIT PLANS GEN. NOTES

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). PROVIDE ACCESSIBLE ROLL-IN SHOWER SYSTEM WITH INTEGRATED LINEAR FRONT DRAIN (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED), LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTE LEGEND

1. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
2. ADJUSTABLE CLOSET SHELF/ROD
3. FRONT MOUNTED RANGE CONTROLS IN ANSI TYPE A UNITS
4. IN ANSI TYPE A UNIT BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT ROLL-IN SHOWERS AND TOILETS. IN ANSI TYPE A UNIT NON-ACCESSIBLE BATHS AND ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT SHOWER AND TOILET LOCATIONS
5. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.

RCP CODED NOTE LEGEND

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
2. ALIGN FIXTURES

ENL. UNIT PLANS LEGEND

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

ENL. UNIT RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - CLUBHOUSE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A509
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:18 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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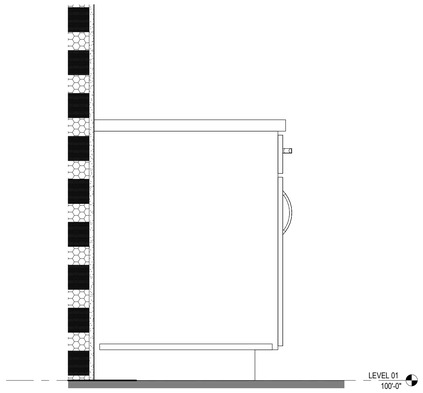
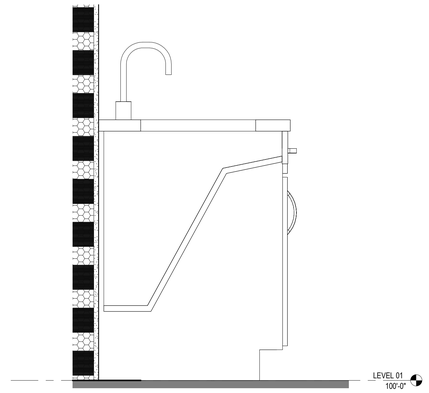
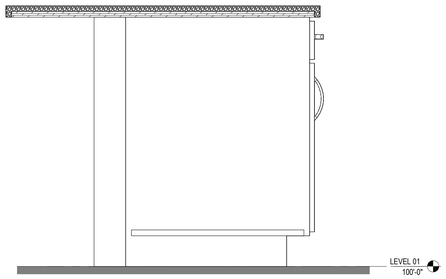


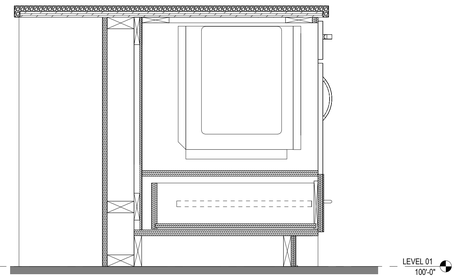
16 DETAIL CLUBROOM KITCHENETTE BASE CABINET - SECTION
1 1/2" = 1'-0" REF: 6 / A512



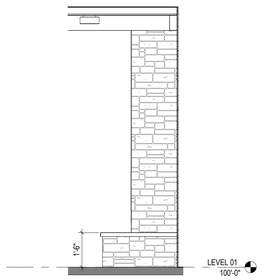
12 DETAIL CLUBROOM KITCHENETTE ADA SINK CABINET - SECTION
1 1/2" = 1'-0" REF: 6 / A512



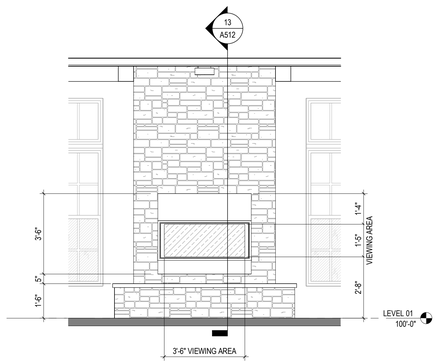
15 DETAIL CLUBROOM ISLAND - SECTION 2
1 1/2" = 1'-0" REF: 7 / A512



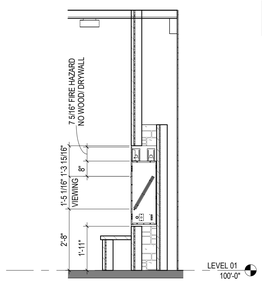
11 DETAIL CLUBROOM ISLAND - SECTION 1
1 1/2" = 1'-0" REF: 7 / A512



14 ELEVATION CLUBROOM FIREPLACE - SIDE
3/8" = 1'-0" REF: 9 / A512

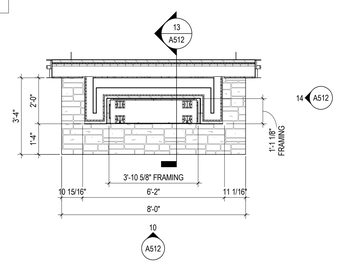


10 ELEVATION CLUBROOM FIREPLACE - FRONT
3/8" = 1'-0" REF: 9 / A512

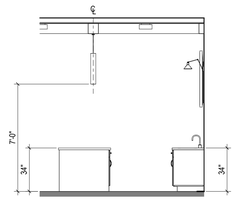


PRE-MANUFACTURED VENT-FREE GAS FIREPLACE, PER MANUFACTURER'S SPECIFICATIONS (BASED ON ARTISAN AVFL42 BY MONESSEN).

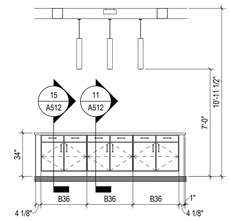
13 SECTION CLUBROOM FIREPLACE
3/8" = 1'-0" REF: 9 / A512



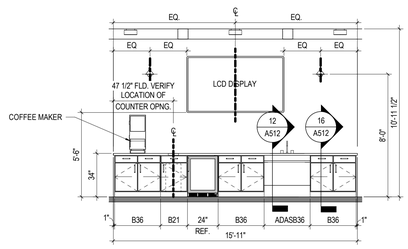
9 ENLARGED PLAN CLUBROOM FIREPLACE
3/8" = 1'-0" REF: 1 / A106D



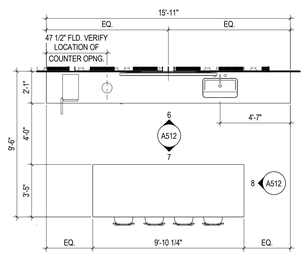
8 ELEVATION CLUBROOM ISLAND - SIDE
1/4" = 1'-0" REF: 5 / A512



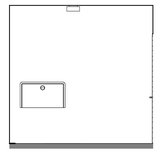
7 ELEVATION CLUBROOM ISLAND - EAST
1/4" = 1'-0" REF: 2 / 102-D



6 ELEVATION CLUBROOM KITCHENETTE - WEST
1/4" = 1'-0" REF: 2 / 102-D



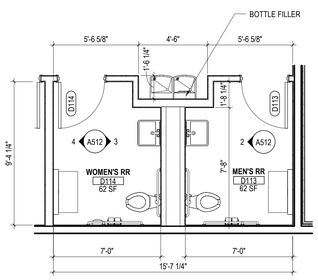
5 ENLARGED PLAN CLUBROOM KITCHENETTE
1/4" = 1'-0" REF: 1 / A106D



4 ELEVATION CLUBHOUSE WOMEN'S RR - WEST
1/4" = 1'-0" REF: 1 / A512 (MEN'S - EAST SYMMETRICAL)

3 ELEVATION CLUBHOUSE WOMEN'S RR - EAST
1/4" = 1'-0" REF: 1 / A512

2 ELEVATION CLUBHOUSE MEN'S RR - WEST
1/4" = 1'-0" REF: 1 / A512



1 ENLARGED PLAN CLUBHOUSE RESTROOMS
1/4" = 1'-0" REF: 1 / A106D

#	DATE	CHANGE DESCRIPTION

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED PLANS, ELEVATIONS & CASEWORK DETAILS - CLUBHOUSE

PROGRESS DRAWING
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05/01/2025
23446
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CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/2/2025 2:03:23 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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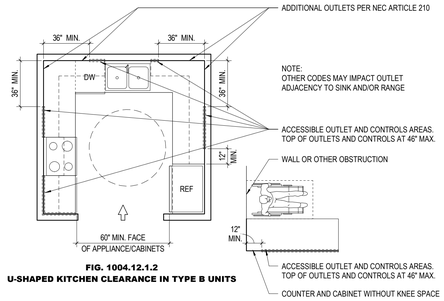


FIG. 1004.12.1.2
U-SHAPED KITCHEN CLEARANCE IN TYPE B UNITS

13 DETAIL DEVICE MOUNTING AT COUNTERS
1/4" = 1'-0"

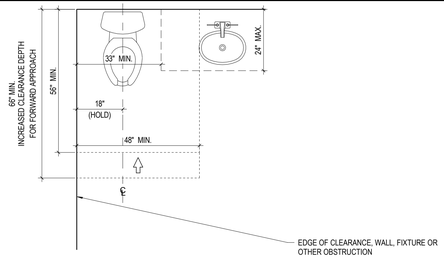
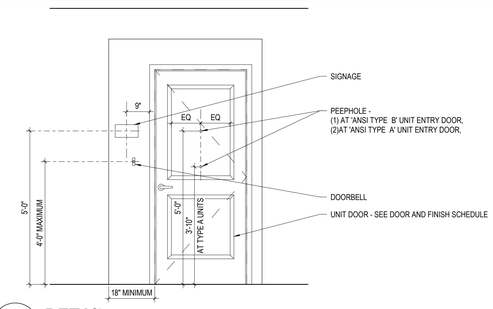


FIG. 1004.11.3.1.2
CLEARANCE AT WATER CLOSETS IN TYPE B UNITS

9 DETAIL TYP WC CLEARANCES
1/2" = 1'-0"



17 DETAIL UNIT ENTRY
1/2" = 1'-0"

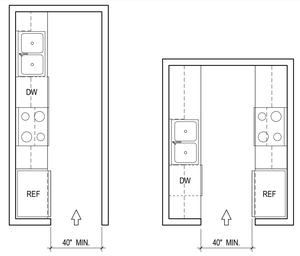
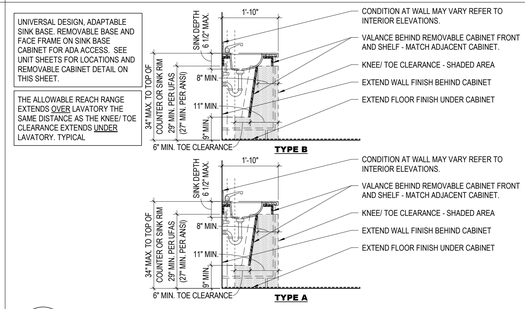
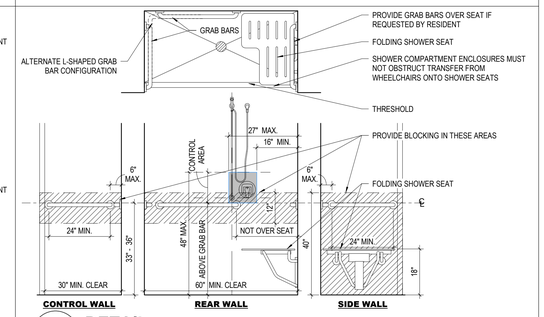


FIG. 1004.12.1.1
MINIMUM KITCHEN CLEARANCES IN TYPE B UNITS

12 DETAIL KITCHEN CLEARANCES
1/4" = 1'-0"



8 DETAIL TYPICAL BATHROOM VANITY
1/2" = 1'-0"



4 DETAIL ROLL-IN SHOWER (TYPE A)
1/2" = 1'-0"

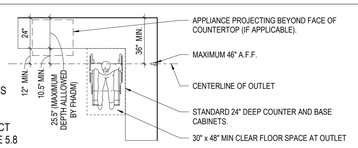


FIGURE 1: ELECTRICAL OUTLETS OVER CABINETS AND/OR COUNTERTOPS AT CORNER CONDITIONS - FAIR HOUSING ACT DESIGN MANUAL (FHADM) PAGE 5.8

* FIGURE 2 REPRESENTS AN ASSESSMENT BY ENDELMAN AND ASSOCIATES REGARDING COMPLIANCE WITH THE INTENT OF THE FHADM REQUIREMENT FOUND IN FIGURE 1.

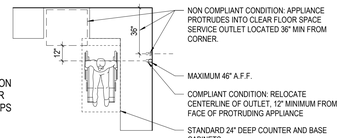


FIGURE 2: ALTERNATIVE LOCATION FOR ELECTRICAL OUTLETS OVER CABINETS AND/ OR COUNTERTOPS AT CORNER CONDITIONS *

16 DETAIL FAIR HOUSING ACT DESIGN MANUAL (FHADM) PAGE 5.8
1/4" = 1'-0"

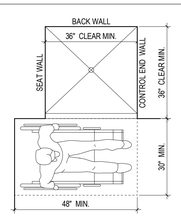
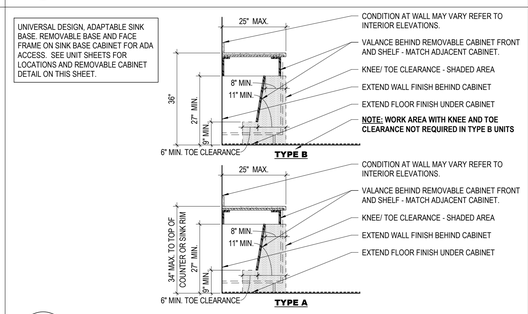
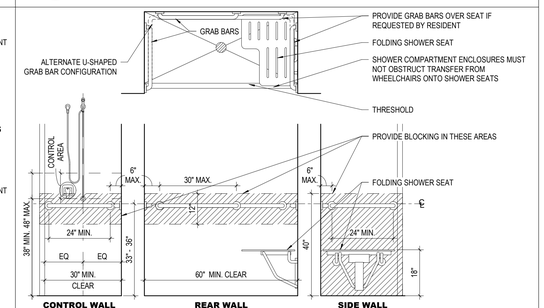


FIG. 1004.11.3.1.3.3
TRANSFER-TYPE SHOWER COMPARTMENT IN TYPE B UNITS

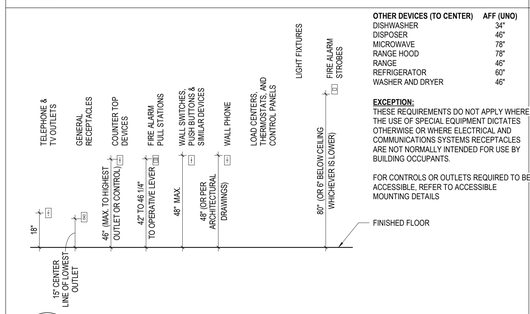
11 DETAIL SHOWER CLEARANCES
1/2" = 1'-0"



7 DETAIL KITCHEN WORK SPACE
1/2" = 1'-0"



3 DETAIL SHOWER (TYPE B) & TRANSFER SHOWER (TYPE A)
1/2" = 1'-0"

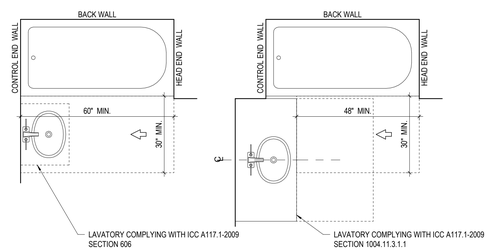


OTHER DEVICES (TO CENTER)	AFF (UNO)
DISHWASHER	34"
DISPOSER	46"
MICROWAVE	78"
RANGE HOOD	78"
RANGE	46"
REFRIGERATOR	60"
WASHER AND DRYER	46"

EXCEPTION:
THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.

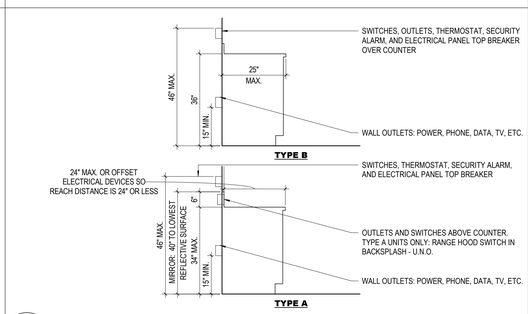
FOR CONTROLS OR OUTLETS REQUIRED TO BE ACCESSIBLE, REFER TO ACCESSIBLE MOUNTING DETAILS

15 DETAIL GENERAL DEVICE MOUNTING HEIGHTS
3/8" = 1'-0"

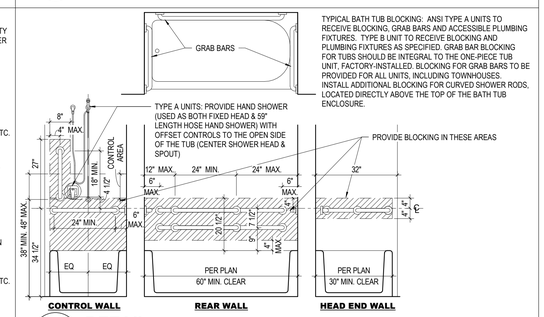


(a) (b)

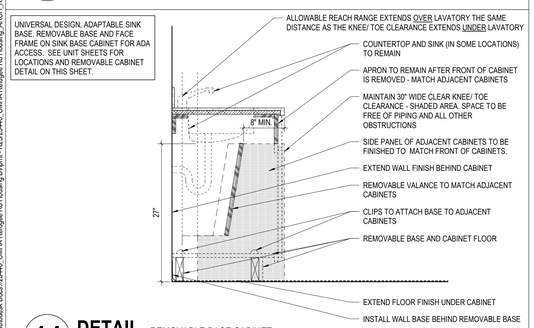
FIG. 1004.11.3.1.3.1
PARALLEL APPROACH BATHTUB IN TYPE B UNITS - OPTION A BATHROOMS



6 DETAIL ACCESSIBLE OPERABLE PARTS TYPE & TYPE B
1/2" = 1'-0"



2 DETAIL TUB / SHOWER BLOCKING (TYPE A & B)
1/2" = 1'-0"



14 DETAIL REMOVABLE BASE CABINET
1" = 1'-0"

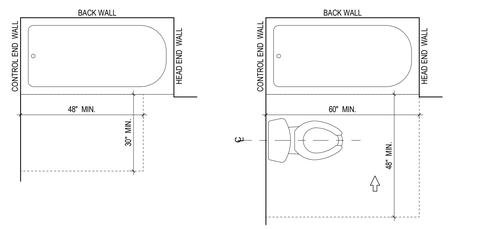


FIG. 1004.11.3.2.3.1
BATHTUB CLEARANCE IN TYPE B UNITS - OPTION B BATHROOMS

FIG. 1004.11.3.1.3.2
FORWARD APPROACH BATHTUB IN TYPE B UNITS - OPTION A BATHROOMS

10 DETAIL BATHTUB CLEARANCES
1/2" = 1'-0"

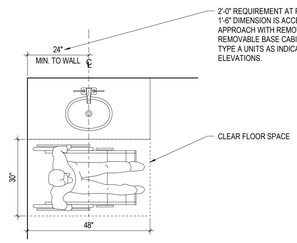
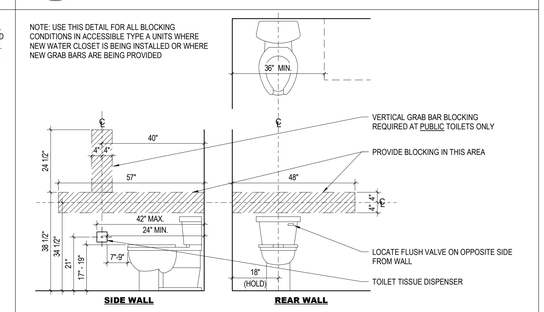


FIG. 1004.11.3.1.1
LAVATORY IN TYPE B UNITS

5 DETAIL TYPICAL LAV TYPE A (ANSI) AND TYPE B (FHA)
1/2" = 1'-0"



1 DETAIL TYP WC CORNER BLOCKING
1/2" = 1'-0"

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
UNIT DETAILS

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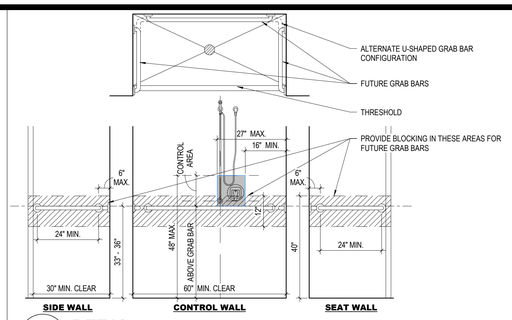
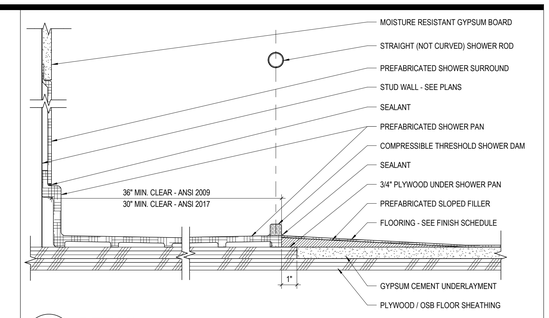
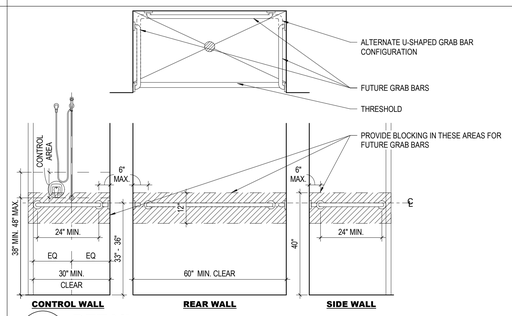


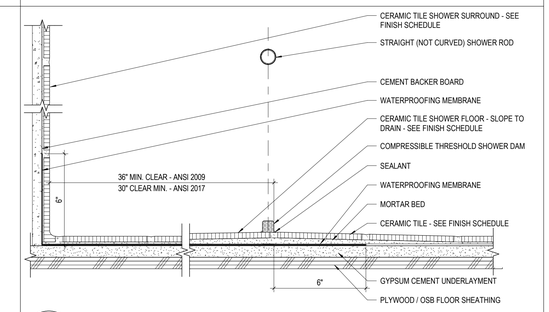
10 DETAIL ROLL-IN SHOWER - SIDE
1/2" = 1'-0"



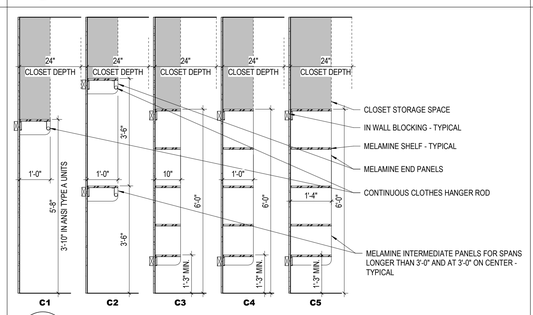
5 DETAIL ACCESSIBLE SHOWER BASE
3" = 1'-0"



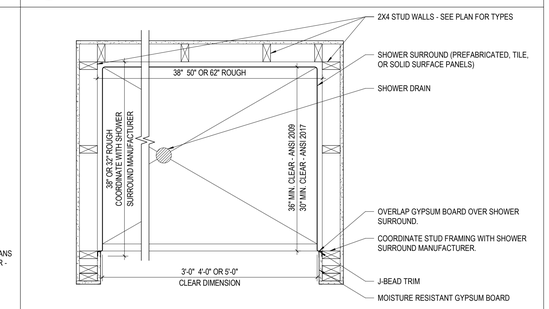
9 DETAIL ROLL-IN SHOWER - END
1/2" = 1'-0"



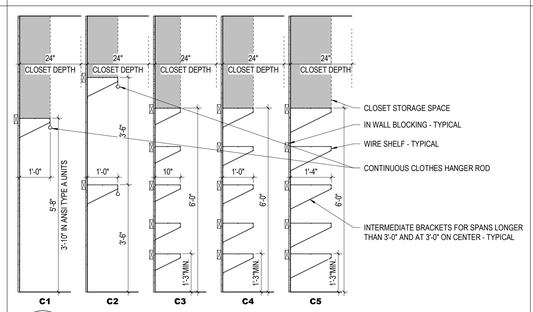
4 DETAIL ACCESSIBLE SHOWER BASE
3" = 1'-0"



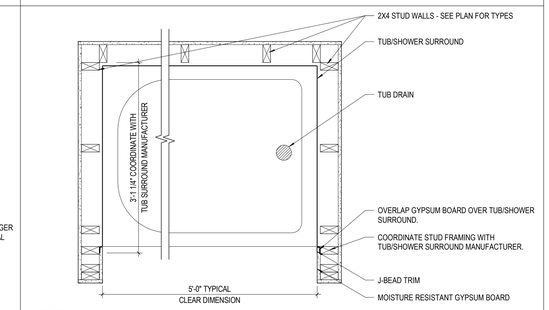
8 DETAIL CLOSET SHELVING
1/2" = 1'-0"



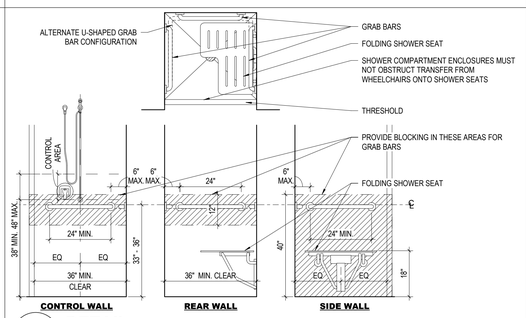
3 DETAIL SHOWER FRAMING
1" = 1'-0"



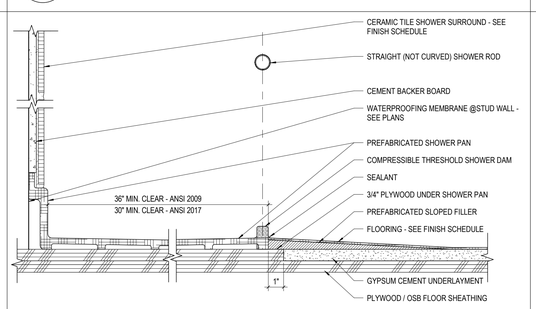
7 DETAIL CLOSET SHELVING
1/2" = 1'-0"



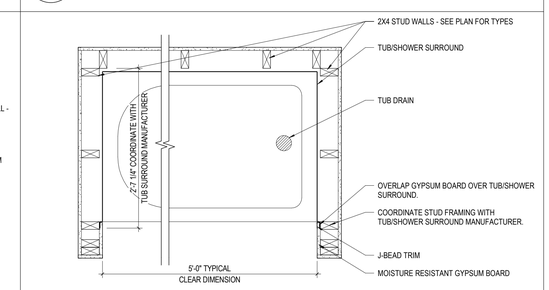
2 DETAIL TUB FRAMING
1" = 1'-0"



11 DETAIL SHOWER TRANSFER TYPE
1/2" = 1'-0"



6 DETAIL ACCESSIBLE SHOWER BASE
3" = 1'-0"



1 DETAIL TUB FRAMING
1" = 1'-0"

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FOR
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Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

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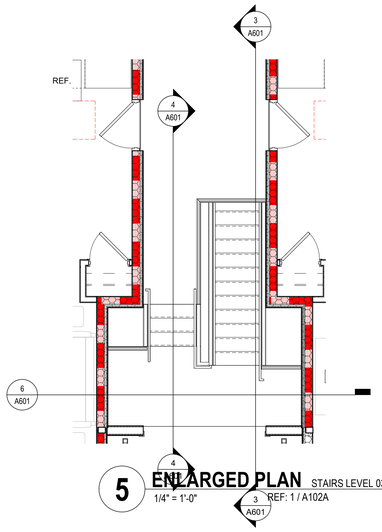
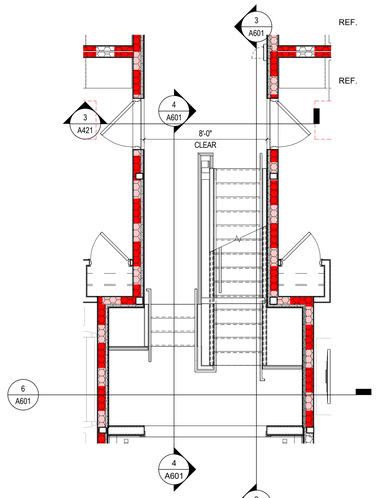
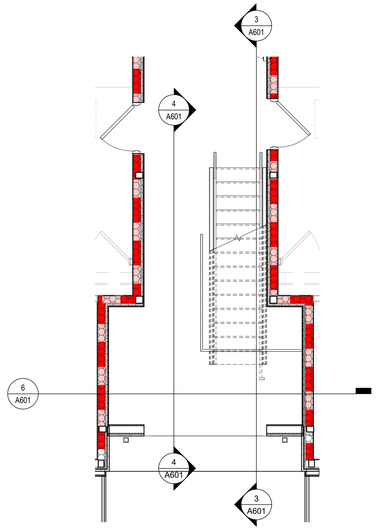


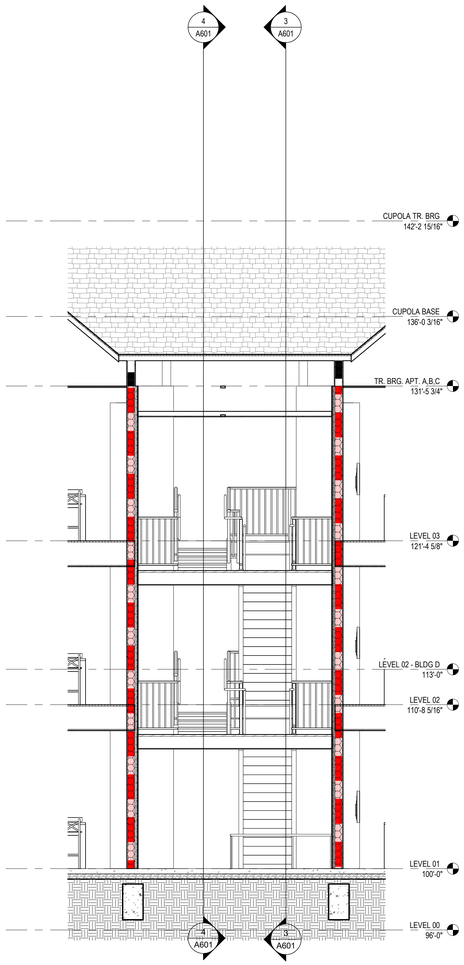
5 ENLARGED PLAN STAIRS LEVEL 03
1/4" = 1'-0" REF: 1 / A102A



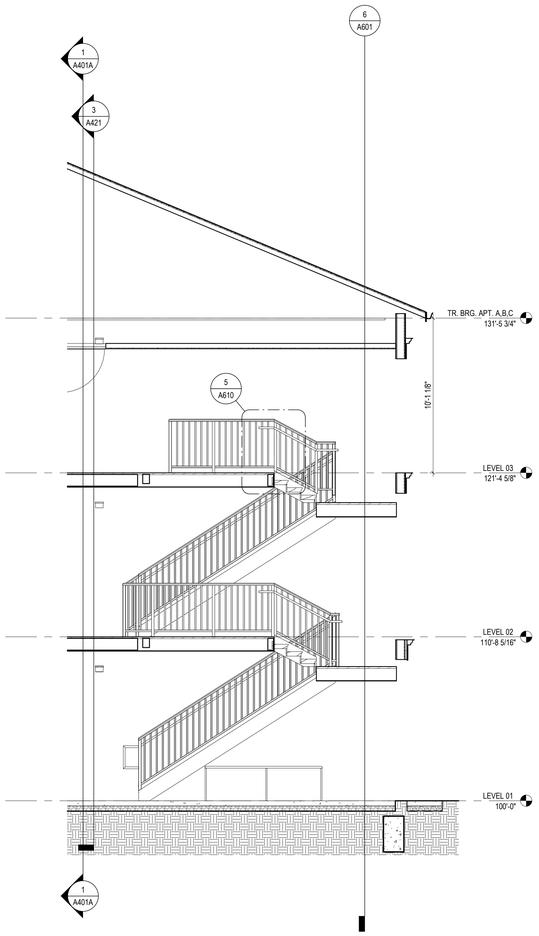
2 ENLARGED PLAN STAIRS LEVEL 02
1/4" = 1'-0" REF: 2 / A101A



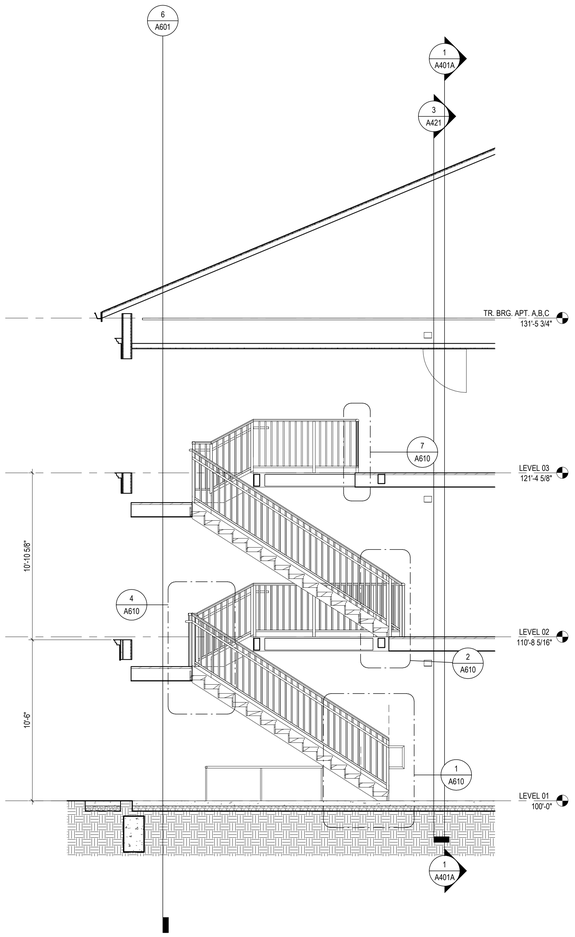
1 ENLARGED PLAN STAIRS LEVEL 01
1/4" = 1'-0" REF: 1 / A101A



6 SECTION MAIN STAIRS @ INT. LANDING
1/4" = 1'-0" REF: 1 / A601



4 SECTION MAIN STAIRS SECTION 02
1/4" = 1'-0" REF: 3 / A421



3 SECTION MAIN STAIRS SECTION 01
1/4" = 1'-0" REF: 3 / A421

VERTICAL CIRCULATION GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A-C MAIN STAIR PLANS AND SECTIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A601
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:33 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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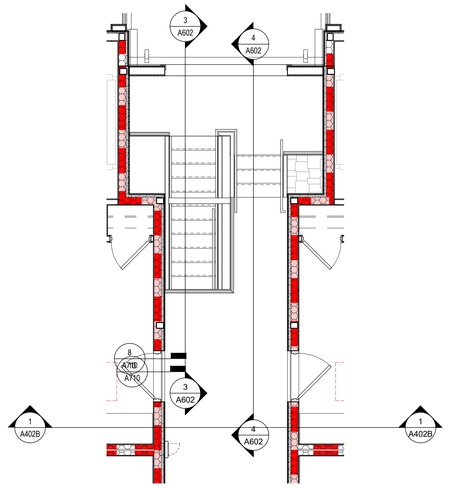
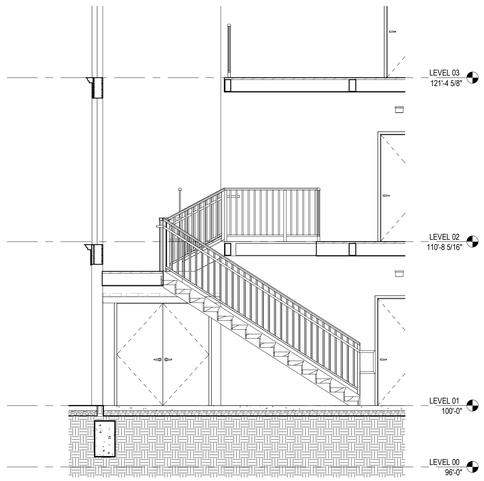


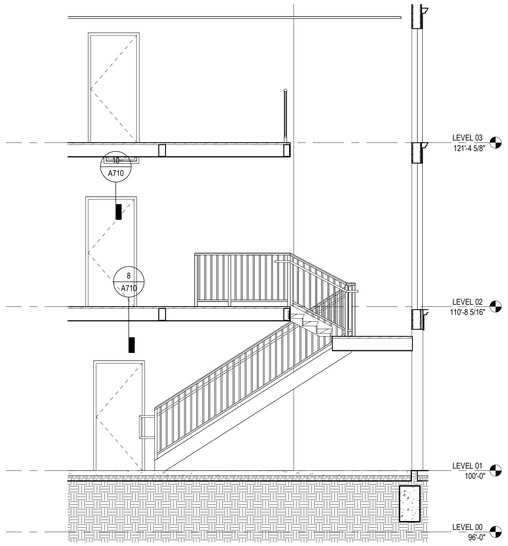
2 ENLARGED PLAN EGRESS STAIRS LEVEL 02

1/4" = 1'-0"



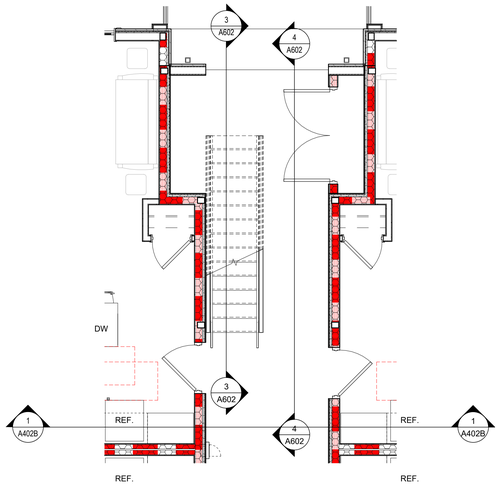
3 SECTION EGRESS STAIRS SECTION 1

1/4" = 1'-0" REF: 1 / A602



4 SECTION EGRESS STAIRS SECTION 2

1/4" = 1'-0" REF: 1 / A602



1 ENLARGED PLAN EGRESS STAIRS LEVEL 01

1/4" = 1'-0"

VERTICAL CIRCULATION GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B EGRESS STAIR PLANS AND SECTIONS

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

A602

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:36 PM
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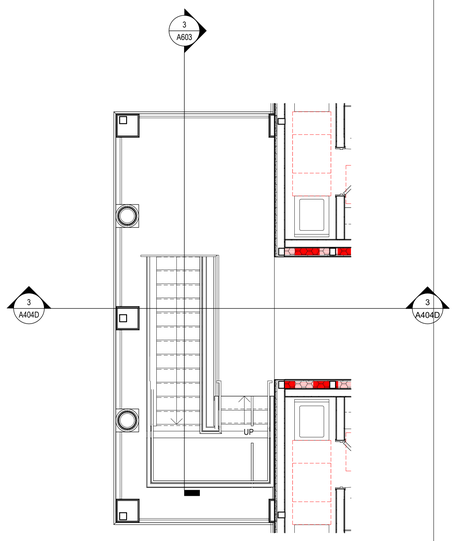
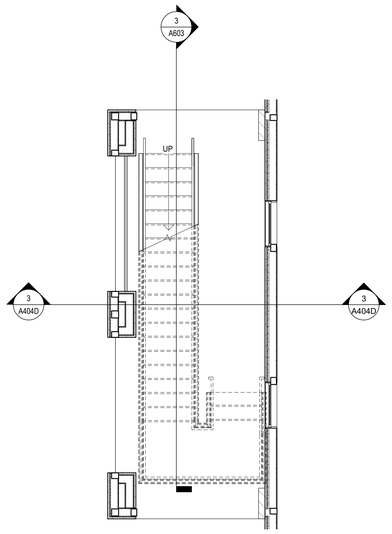
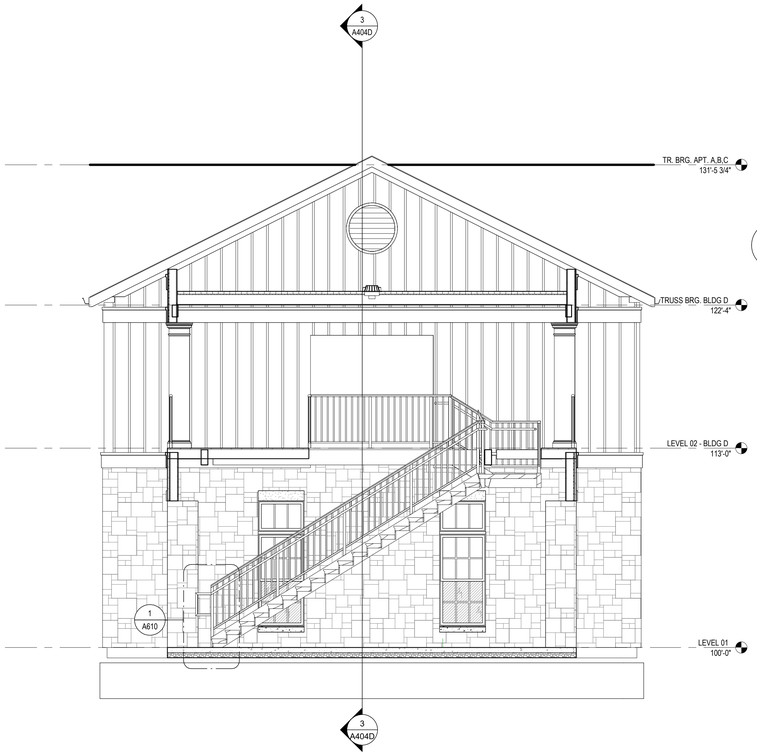


2 **ENLARGED PLAN** LEVEL 02 - CLUBHOUSE STAIRS
1/4" = 1'-0" REF: 2 / A106D



1 **ENLARGED PLAN** LEVEL 01 - CLUBHOUSE STAIRS
1/4" = 1'-0" REF: 1 / A106D



3 **SECTION** Section 50
1/4" = 1'-0" REF: 1 / A603

VERTICAL CIRCULATION GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CLUBHOUSE STAIR PLANS AND SECTIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A603

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:39 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D/print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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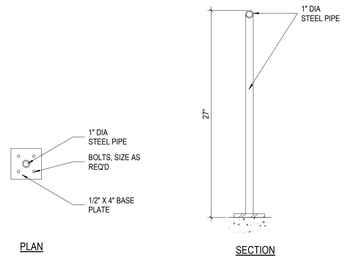
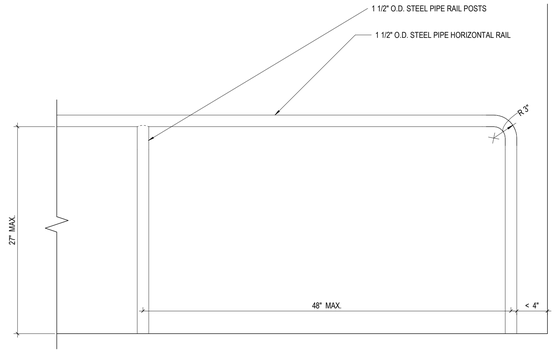
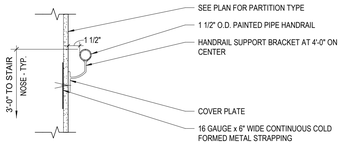


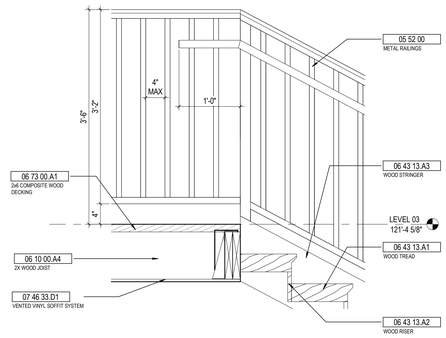
6 DETAIL CANE DETECTION SECTION
1 1/2" = 1'-0"



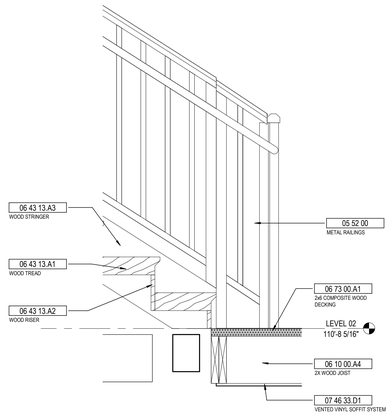
3 DETAIL CANE DETECTION RAIL
1 1/2" = 1'-0"



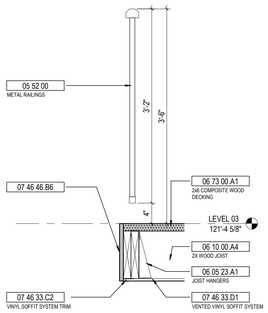
8 DETAIL R4 - HANDRAIL MOUNTING - WALL
1 1/2" = 1'-0"



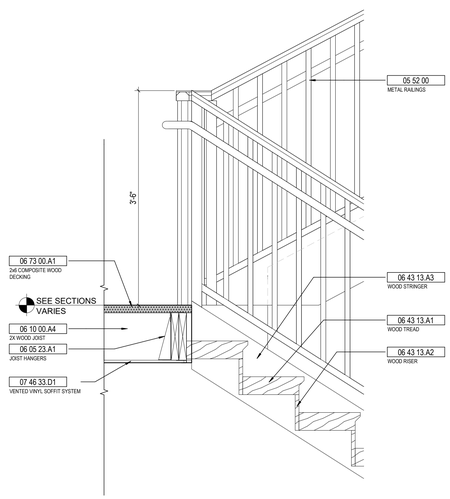
5 DETAIL TOP LANDING (TYP)
1" = 1'-0" REF: 4 / A601



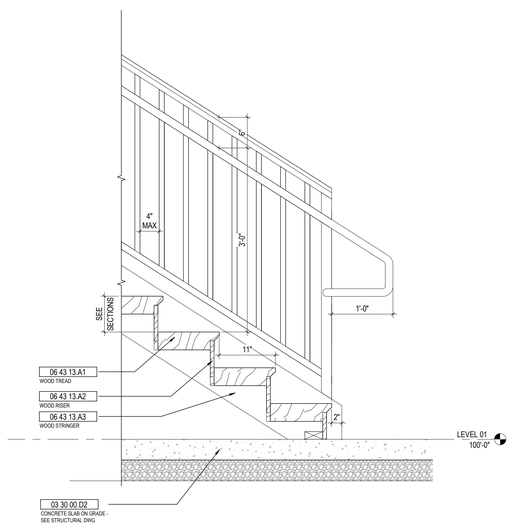
2 DETAIL BOTTOM LANDING @ LVL 02
1" = 1'-0" REF: 3 / A601



7 DETAIL TOP LANDING GUARDRAIL
1" = 1'-0" REF: 3 / A601



4 DETAIL INTERMEDIATE LANDING SYMETRICAL)
1" = 1'-0" REF: 3 / A601



1 DETAIL BOTTOM LANDING @ GRADE (TYP)
1" = 1'-0" REF: 3 / A601

STAIR & ELEVATOR DETAIL GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03 30 00.D2	CONCRETE SLAB ON GRADE - SEE STRUCTURAL DWG
05 52 00	METAL RAILINGS
06 05 23.A1	JOIST HANGERS
06 10 00.A4	2X WOOD JOIST
06 43 13.A1	WOOD TREAD
06 43 13.A2	WOOD RISER
06 43 13.A3	WOOD STRINGER
06 73 00.A1	2x6 COMPOSITE WOOD DECKING
07 46 33.C2	VINYL SOFFIT SYSTEM TRIM
07 46 33.D1	VENTED VINYL SOFFIT SYSTEM
07 46 46.B6	

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STAIR & RAILING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A610
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REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:42 PM
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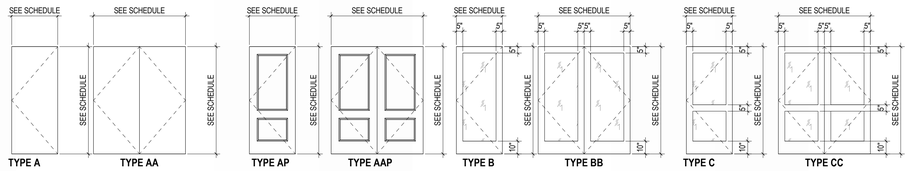
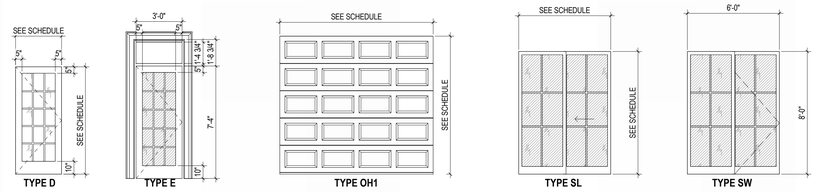
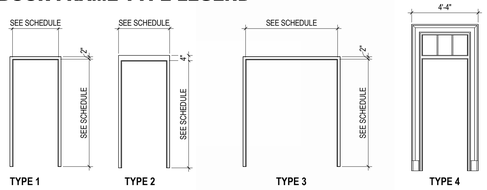
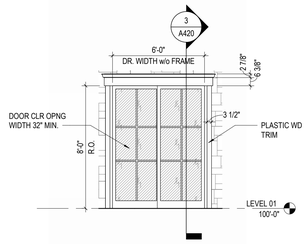
DOOR PANEL TYPE LEGEND





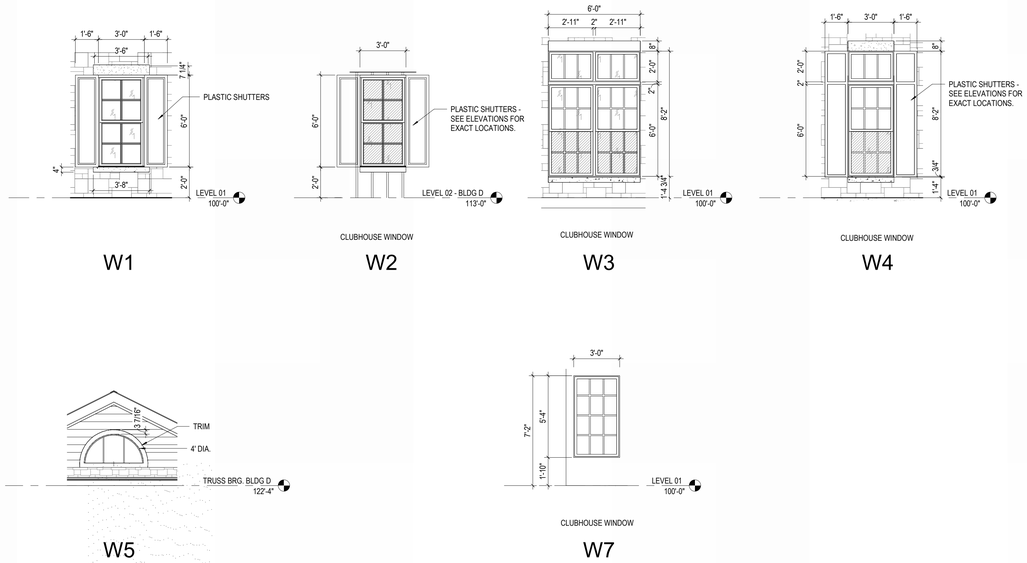
DOOR FRAME TYPE LEGEND



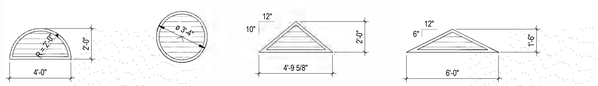


1 **DETAIL** TYPICAL APT. SLIDING DOOR
1/4" = 1'-0" REF: 1 / 100-A

WINDOW TYPE LEGEND



LOUVER TYPE LEGEND



DOOR SCHEDULE - EXTERIOR ELEC CLOSET DOOR @ BUILDING A,B,C

DOOR						FRAME		FIRE		CARD	DETAILS - SHEET A710 (U.N.O.)		
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV	RATING	HDW SET	READER	HEAD	JAMB	SILL
E1	ELEC / WATER CLOSET	6'-0"	7'-0"	HM	AA	HM	1						
E2	ELEC / WATER CLOSET	6'-0"	7'-0"	HM	AA	HM	1						
E3	ELEC / WATER CLOSET	6'-0"	7'-0"	HM	AA	HM	1						
E4	ELEC / WATER CLOSET	6'-0"	6'-8"	HM	AA	HM	1						
E5	ELEC / WATER CLOSET	6'-0"	7'-0"	HM	AA	HM	1						

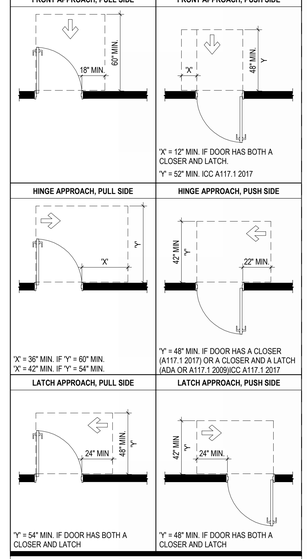
DOOR SCHEDULE - GARAGE BUILDING

DOOR						FRAME		FIRE		CARD	DETAILS - SHEET A710 (U.N.O.)		
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV	RATING	HDW SET	READER	HEAD	JAMB	SILL
G01	GARAGE	8'-0"	7'-0"		OH1		--						
G1A	GARAGE	3'-0"	7'-0"		A		2						
G02	GARAGE	8'-0"	7'-0"		OH1		--						
G2A	GARAGE	3'-0"	7'-0"		A		2						
G2B	GARAGE	3'-0"	7'-0"		A		2						
G03	GARAGE	8'-0"	7'-0"		OH1		--						
G04	GARAGE	8'-0"	7'-0"		OH1		--						
G05	GARAGE	8'-0"	7'-0"		OH1		--						
G06	GARAGE	8'-0"	7'-0"		OH1		--						
G07	GARAGE	8'-0"	7'-0"		OH1		--						
G09	GARAGE	8'-0"	7'-0"		OH1		--						
G11	GARAGE	8'-0"	7'-0"		OH1		--						
G13	GARAGE	8'-0"	7'-0"		OH1		--						
G15	GARAGE	8'-0"	7'-0"		OH1		--						
G17	GARAGE	8'-0"	7'-0"		OH1		--						
G19	GARAGE	8'-0"	7'-0"		OH1		--						
G21	GARAGE	8'-0"	7'-0"		OH1		--						
G23	GARAGE	8'-0"	7'-0"		OH1		--						
G25	GARAGE	8'-0"	7'-0"		OH1		--						
G27	GARAGE	8'-0"	7'-0"		OH1		--						
G29	GARAGE	8'-0"	7'-0"		OH1		--						

DOOR SCHEDULE - BUILDING D (CLUBHOUSE)

DOOR						FRAME		FIRE		CARD	DETAILS - SHEET A710 (U.N.O.)		
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV	RATING	HDW SET	READER	HEAD	JAMB	SILL
D101	FRONT LOBBY	3'-0"	7'-4"	HM	E	HM	3			Yes			
D103	CONFERENCE & CLOSING	3'-0"	7'-0"	WD	C	HM	1						
D104	PARCEL	3'-0"	7'-0"	WD	C	HM	1			Yes			
D104A	MECH	3'-0"	7'-0"	WD	A	HM	1						
D105	LEASING	3'-0"	7'-0"	WD	C	HM	1						
D106	MARKETING	3'-0"	7'-0"	WD	A	HM	1						
D107	GALLERY	3'-0"	7'-0"	WD	C	HM	1						
D108A	CLUB	3'-0"	7'-0"	WD	C	HM	1						
D108B	CLUB	3'-0"	7'-0"	WD	C	HM	1						
D109	FITNESS	3'-0"	7'-0"	WD	C	HM	1			Yes			
D111	REAR LOBBY	3'-0"	7'-4"	HM	E	HM	3			Yes			
D113	MEN'S RR	3'-0"	7'-0"	WD	A	HM	1						
D114	WOMEN'S RR	3'-0"	7'-0"	WD	A	HM	1						
D115	MECH	3'-0"	7'-0"	WD	A	HM	1						
D116	MECH / JAN.	3'-0"	7'-0"	WD	A	HM	1						
D117	POOL EQUIP.	6'-0"	7'-0"	HM	AA	HM	1						

DOOR CLEARANCES



GLAZING TYPES

GL-1 INTERIOR GLAZING (CLEAR TEMPERED)

GL-2 INTERIOR GLAZING (CLEAR LAMINATED)

GL-3 INTERIOR GLAZING (CERAMIC 45 MINUTE)

GL-4 INTERIOR GLAZING (CERAMIC 60 MINUTE)

GL-5 INTERIOR GLAZING (CERAMIC 90 MINUTE)

GL-6 INTERIOR GLAZING (FROSTED)

GL-7 INTERIOR GLAZING (GRIDDED)

IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

DOOR & WINDOW SCHEDULES

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A700

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:48 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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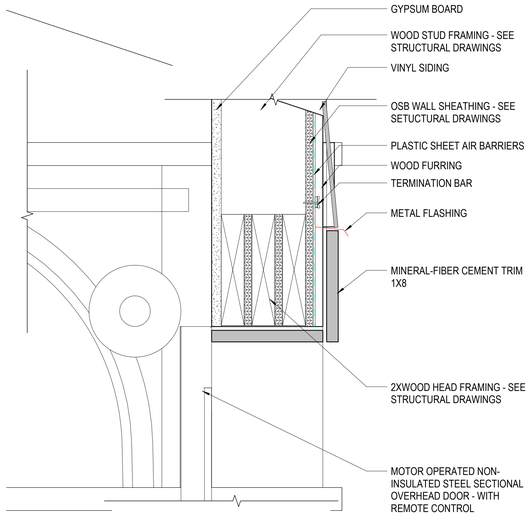
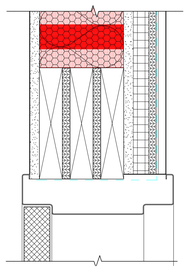
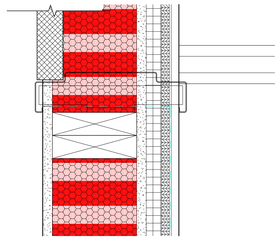


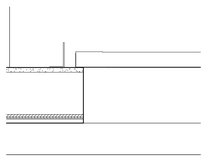
16 DETAIL GARAGE DOOR HEAD
3" = 1'-0" REF: 12 / A110G



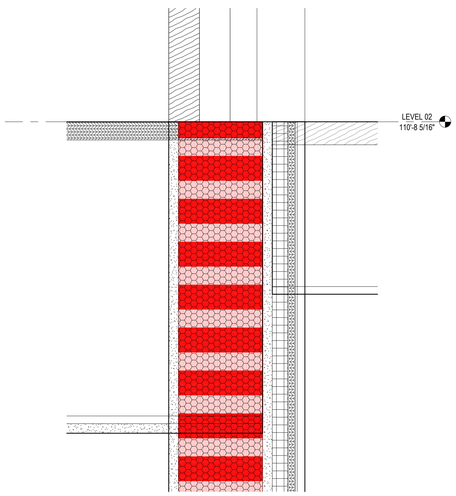
10 DETAIL UNIT ENTRY DOOR HEAD
3" = 1'-0" REF: 2 / A602



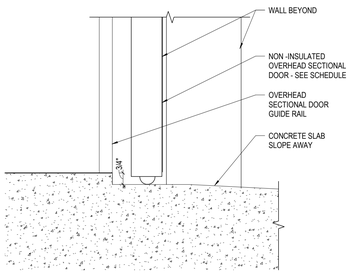
9 DETAIL UNIT ENTRY DOOR JAMB
3" = 1'-0"



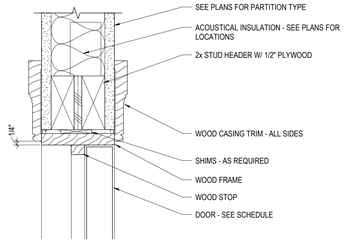
15 DETAIL SECTIONAL DOOR JAMB
1 1/2" = 1'-0" REF: 1 / A110G



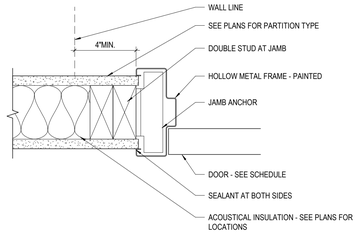
8 DETAIL UNIT ENTRY DOOR SILL
3" = 1'-0" REF: 2 / A602



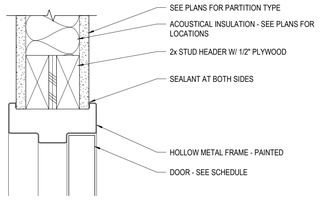
14 DETAIL GARAGE DOOR SILL
3" = 1'-0" REF: 12 / A110G



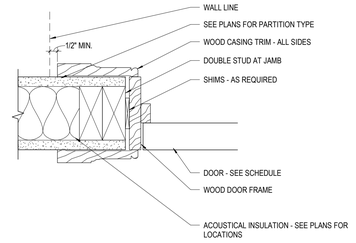
4 DETAIL DOOR HEAD WITH WOOD TRIM
3" = 1'-0"



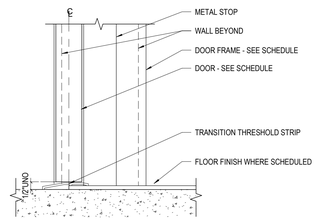
7 DETAIL TYP. HOLLOW METAL JAMB
3" = 1'-0"



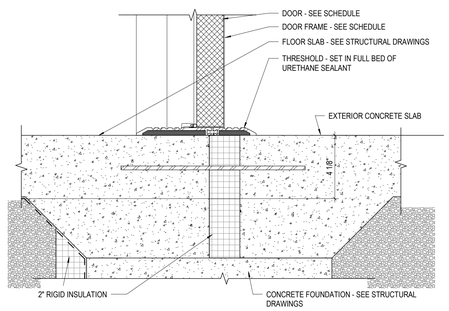
6 DETAIL TYP. HOLLOW METAL HEAD DETAIL
3" = 1'-0"



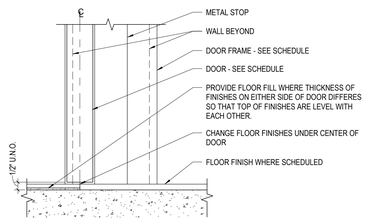
3 DETAIL DOOR JAMB WITH WOOD TRIM
3" = 1'-0"



2 DETAIL TYPICAL INTERIOR DOOR SILL W / TRANS TRESHOLD
3" = 1'-0"



5 DETAIL UNIT DOOR SILL @ GRADE
3" = 1'-0"



1 DETAIL TYPICAL INTERIOR DOOR SILL
3" = 1'-0"

DOOR DETAIL GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
DOOR DETAILS

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A710
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:52 PM
FILE INFO: Jacobsen Doors/23446_CMHA Refugee Rd Housing D.rvprt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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CLUBHOUSE FINISH SCHEDULE

SPACE		FLOOR		BASE		DOOR/FRAME FINISH		WALLS								
						DOOR	FRAME	NORTH		SOUTH		EAST		WEST		
ROOM NUMBER	ROOM NAME	MAT	COL	MAT	COL	PAINT	PAINT	MAT	COL	MAT	COL	MAT	COL	MAT	COL	REMARKS
104	ELEC / WATER CLOSET	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
105	ELEC / WATER CLOSET	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
106	ELEC / WATER CLOSET	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
107	ELEC / WATER CLOSET	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
108	ELEC / WATER CLOSET	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D101	FRONT LOBBY	LVP	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D102	CORR.	LVP	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D103	CONFERENCE & CLOSING	CR	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D104	PARCEL	LVP	2	RB	1			PT	3	PT	3	PT	3	PT	3	
D104A	MECH	LVP	2	RB	1			PT	3	PT	3	PT	3	PT	3	
D105	LEASING	CR	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D106	MARKETING	CR	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D107	GALLERY	LVP	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D108	CLUB	LVP	2	WD	PT-2			PT	3	PT	3	PT	3	WT / PT	3	WT @ BACK BAR
D109	FITNESS	RSF	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	SOFFIT TO BE PT-X. LAY-IN TO BE A2.
D111	REAR LOBBY	LVP	2	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D112	CORRIDOR	LVP	2	WD	PT-2			PT	3	WT / PT	3	WT / PT	3	WT / PT	3	WT @ EWC
D113	MEN'S RR	TF	1	TWB	1			PT	3	PT	3	PT	3	WT	2	WT @ WET WALL
D114	WOMEN'S RR	TF	1	TWB	1			PT	3	PT	3	WT	2	PT	3	WT @ WET WALL
D115	MECH	SC	--	RB	1			PT	3	FRP / PT	1 / 3	FRP / PT	1 / 3	PT	3	FRP TO 48" A.F.F.
D116	MECH / JAN.	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D117	POOL EQUIP.	SC	--	RB	1			FRP	1	FRP	1	FRP	1	FRP	1	
D118	MAIL	--	--	--	--			--	--	--	--	--	--	--	--	SEE EXTERIOR FINISHES
D119	STAIR	--	--	--	--			--	--	--	--	--	--	--	--	SEE EXTERIOR FINISHES

UNIT FINISH SCHEDULE

ROOM NAME	FLOOR		BASE		WALLS		REMARKS	KEYED REMARKS
	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR		
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 1	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).

FINISH LEGEND

FLOORS:

CARPET - BROADLOOM (CR)
CR-1 MFG: TBD
STYLE: TBD
COLOR: TBD

CARPET TILE (CR)
CR-2 MFG: TBD
STYLE: TBD
COLOR: TBD

ENTRANCE CARPET (EC)
EC-1 MFG: TBD
PATTERN: TBD
COLOR: TBD
INSTALL: TBD

FLOOR TILE (FT)
FT-1 MFG: TBD
STYLE: TBD
COLOR: TBD
GROUT: TBD

LUXURY VINYL PLANK (LVP)
(SEE ENLARGED PLANS FOR LVP PLANK INSTALL DIRECTION (DIR)
LVP-1 MFG: ADORE
COLLECTION: NATURELLE+ PLUS
STYLE #: NAT-3302
NAME: AGREE
SIZE: 7" X 48" PLANK 3MM 22MIL
INSTALL: RANDOM

LVP-2 MFG:
COLLECTION:
STYLE #:
NAME:
SIZE:
INSTALL: RANDOM

SEALED CONCRETE (SC)

BASE:

RUBBER BASE (RB)
RB-1 MFG: JOHNSONITE
STYLE: RECESS 4.25" RWDC-63
COLOR: TBD

TILE WALL BASE (TWB)
TWB-1 MFG: TBD
STYLE: TBD
COLOR: TBD
GROUT: TBD

WALLS:

FIBERGLASS REINFORCED PANEL (FRP)
FRP-1 MFG: CRANE COMPOSITES
PRODUCT: GLASBORD
SANDSTONE TEXTURE
COLOR: TBD

PAINT (PT)
PT-1 MFG: SHERWIN WILLIAMS
COLOR: SW 7631 CITY LOFT
FINISH: SATIN/EG-SHEL

PT-2 MFG: SHERWIN WILLIAMS
COLOR: SW 7005 PURE WHITE
FINISH: SATIN/EG-SHEL

EPT-2 FINISH: EPOXY

PT-3 MFG: SHERWIN WILLIAMS
COLOR TBD
FINISH: TBD

PT-4 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

PT-5 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

PT-6 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

WALL TILE (WT)
WT-1 MFG: TBD
STYLE: TBD
COLOR: TBD
INSTALL: TBD / GROUT: TBD

WT-2 MFG: DALTILE
STYLE: COLOR WHEEL CLASSIC - 3" X 6"
COLOR: ARCTIC WHITE 0190
INSTALL: SUBWAY / GROUT: TBD

CEILINGS
A1 2X2 ACOUSTICAL LAY-IN - WHITE

A3 2X2 LAY-IN - BLACK W/ BLACK GRID

MISCELLANEOUS

CABINETS **UNITS**
MFG: REGENT CABINETS
STYLE: SHAKER SLAB / EXTREME CONS.
COLOR: TBD

AMENITY
MFG: REGENT CABINETS
STYLE: SHAKER SLAB / EXTREME CONS.
COLOR: TBD

COUNTERS - QUARTZ (QZ)
QZ-1 MFG: CORIAN
COLOR: TBD
AMENITY

COUNTERS - STONE (ST)
ST-1 MFG: TBD
PATTERN: 3CM GRANITE
COLOR: TBD
UNIT

GROUT (GT)
GT-1 MFG: MAPEI
COLOR: TBD

GT-2 MFG: MAPEI
COLOR: TBD

VANITY TOP / SINK
MFG: RYNONE
STYLE: CULTURED MARBLE VANITY TOP
COLOR: SOLID / 3B SOLID, WHITE

GENERAL NOTES - FINISH PLANS

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2. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
3. NO FINISH MATERIAL SUBSTITUTIONS WILL BE ACCEPTED EXCEPT IN THE SPECIFIC CIRCUMSTANCES ENUMERATED IN THE PROJECT MANUAL.
4. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. MATERIAL, FINISH AND COLOR INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS THE PAINT COLORS SHOULD BE SPLIT AT THE JAMB OF THE FRAME.
5. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
6. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).
7. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.
8. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.
9. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.
10. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.
11. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
12. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
13. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.
14. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.
15. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.
16. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FINISH SCHEDULE/LEGEND

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A800A
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:03:54 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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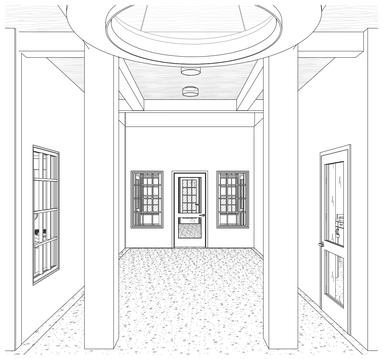
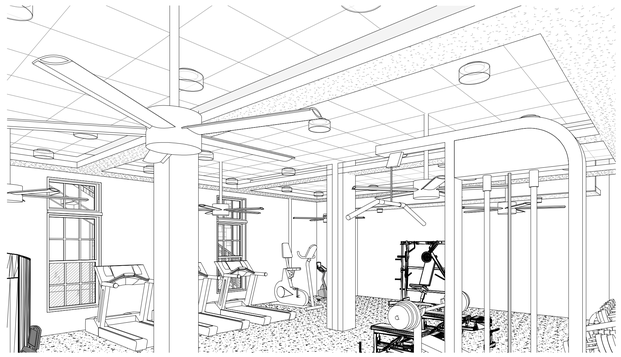
SEE CLUBHOUSE FLOOR PLAN ON SHEET A106D
FOR LOCATION OF VIEW POINTS

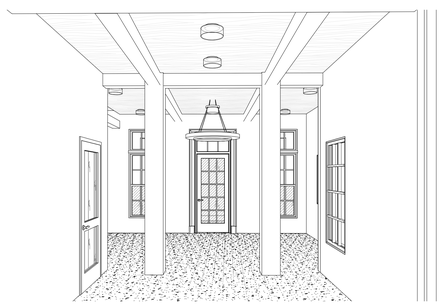
6 **PERSPECTIVE** 3D View - REAR LOBBY LOOKING SOUTH



5 **PERSPECTIVE** 3D View - FRONT LOBBY LOOKING NORTH

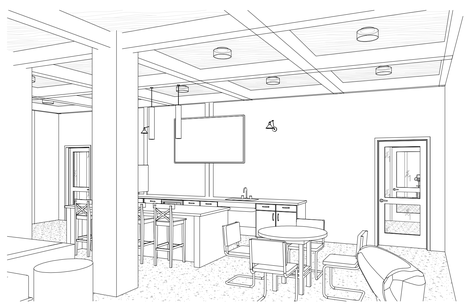


4 **PERSPECTIVE** 3D View - FITNESS LOOKING NORTH-WEST



3 **PERSPECTIVE** 3D View - GALLERY - LOOKING SOUTH

2 **PERSPECTIVE** 3D View - CLUB LOOKING NORTH-EAST



1 **PERSPECTIVE** 3D View - CLUB LOOKING SOUTH-WEST

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THE FALLS ON REFUGEE ROAD
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FOR
CMHA

Moody Nolan

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664

CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING D - INTERIOR 3D VIEWS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A801D

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:04:05 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dv/pmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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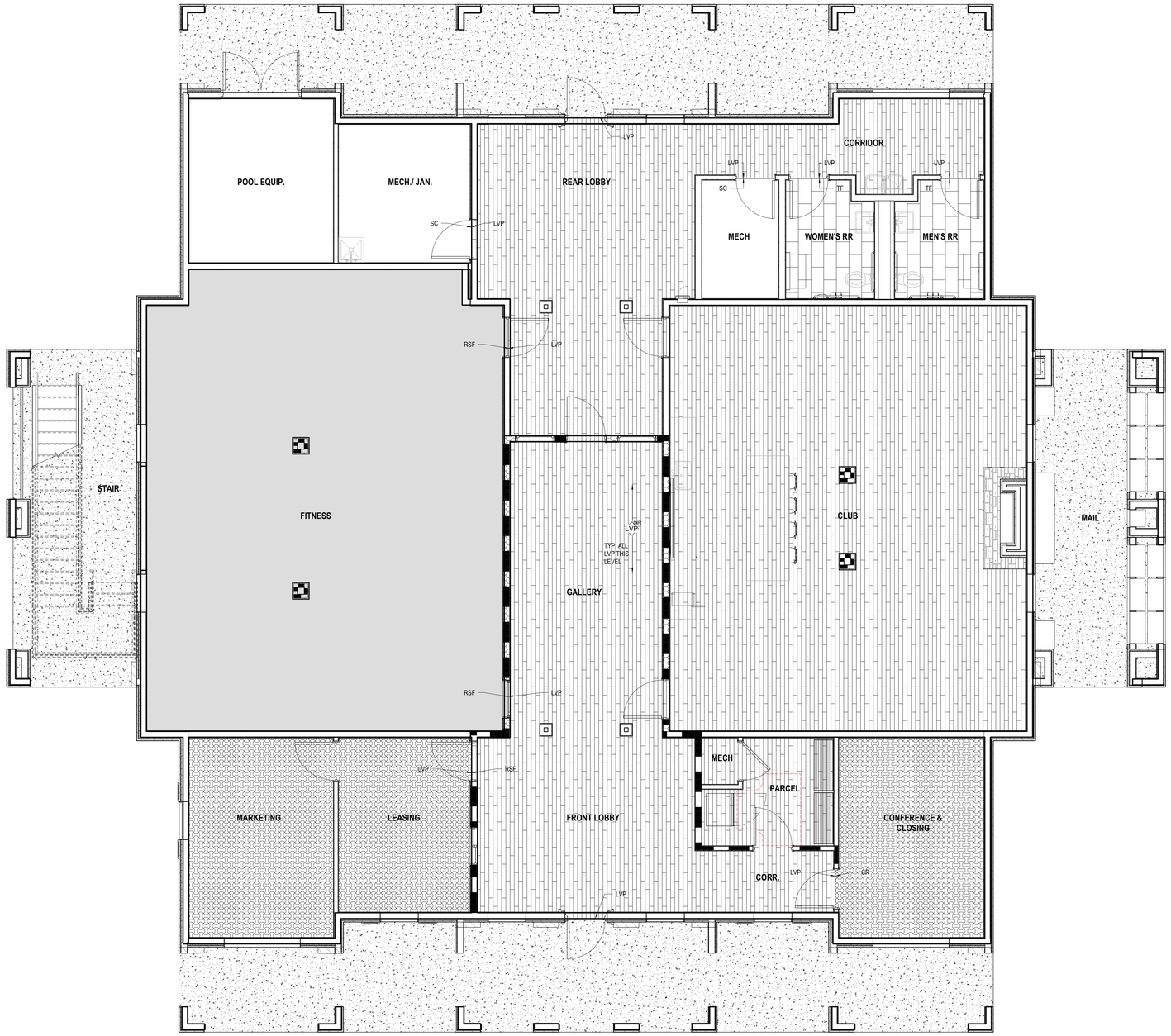

1 **PLAN** LEVEL 01 - FINISH PLAN - OVERALL
1/4" = 1'-0"

GENERAL NOTES - FINISH PLANS

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5. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
6. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).
7. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.
8. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.
9. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.
10. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.
11. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
12. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
13. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.
14. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.
15. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.
16. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

FLOOR PATTERN LEGEND

- CR2 - CARPET TILE
- FT1 - TILE FLOOR
- LVP1 - LUXURY VINYL PLANK
- RSF1 - RESILIENT SPORTS FLOOR

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CLUBHOUSE - FINISH PLAN - OVERALL

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A900D
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:04:07 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing D-print - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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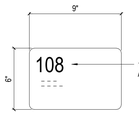
SIGNAGE SCHEDULE

ROOM					
LEVEL	NUMBER	NAME	PLAN CODE	SIGN TYPE	BRAILLE

SIGNAGE TYPES



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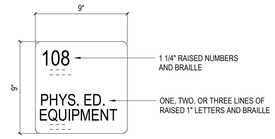

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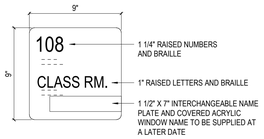

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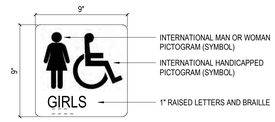

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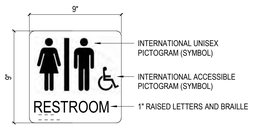

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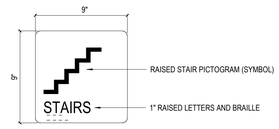

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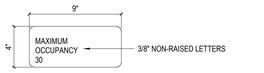

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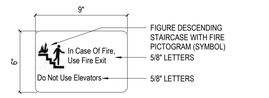

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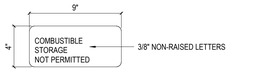

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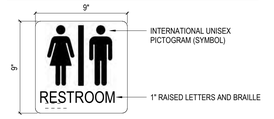

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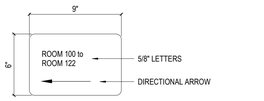
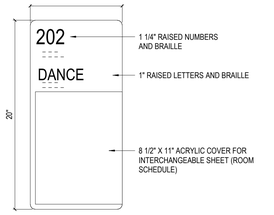


INTERIOR SIGNAGE TYPE J

INTERIOR SIGNAGE TYPE K

INTERIOR SIGNAGE TYPE L



INTERIOR SIGNAGE TYPE M

INTERIOR SIGNAGE TYPE N

INTERIOR SIGNAGE TYPE P

GENERAL NOTES

1. PROVIDE MAXIMUM OCCUPANCY SIGNAGE TYPE G AS NEEDED PER SPECIFICATIONS.
2. FIRE EXTINGUISHERS SHALL BE FURNISHED WITH SIGNAGE PER THE MANUFACTURER.
3. INSTALL SIGNAGE TO BE AT LATCH SIDE OF DOOR, MOUNTING HEIGHT IS 60" FROM THE FLOOR TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER (TYPICAL)

SIGNAGE TYPES LEGEND

12" = 1'-0"

GENERAL NOTES - SIGNAGE

1. X

KEYNOTE LEGEND

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
SIGNAGE SCHEDULE

05/01/2025
23446
A931
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

REVIT VERSION: 2023
PRINT DATE: 5/5/2025 2:48:12 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

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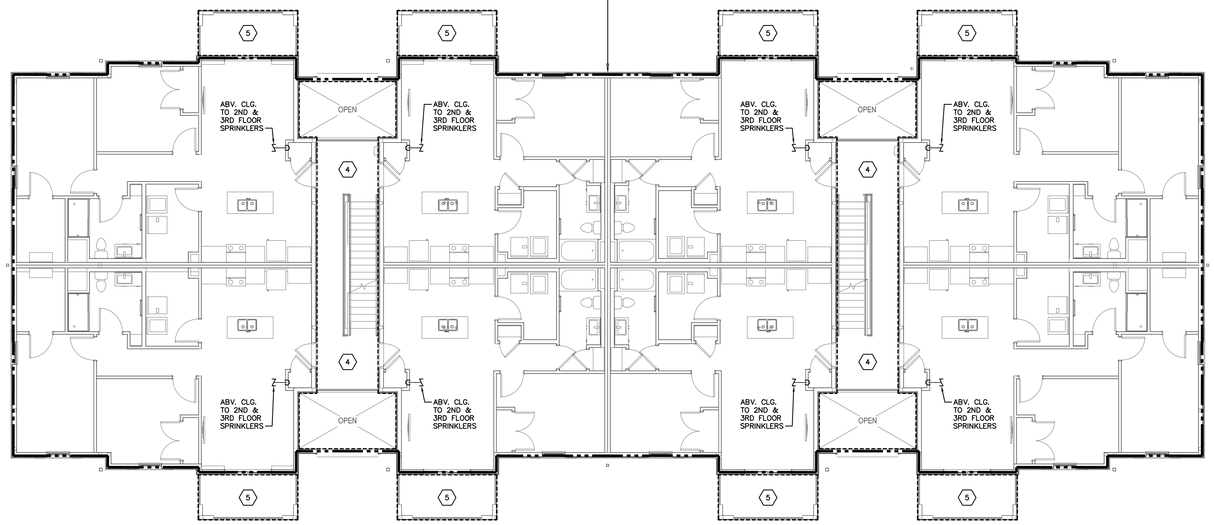
F.P. SPRINKLER ZONE 2 NOTE:

PROVIDE SPRINKLER PROTECTION FOR ZONE 2 (SECOND FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.

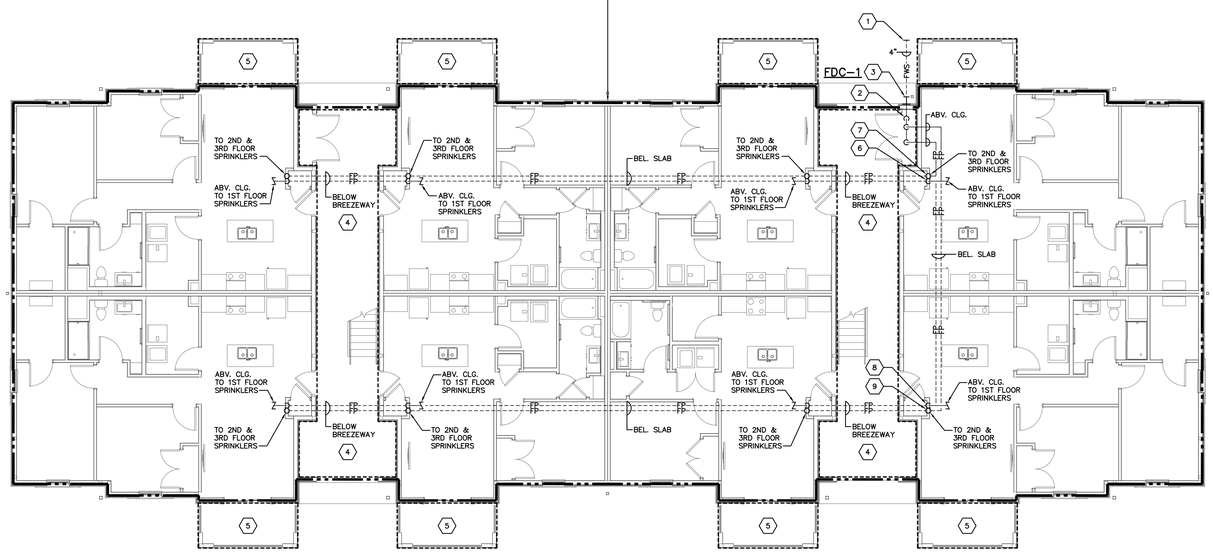


LEVEL 02 FIRE PROTECTION PLAN – BUILDING A

SCALE: 1/8"=1'-0"

F.P. SPRINKLER ZONE 1 NOTE:

PROVIDE SPRINKLER PROTECTION FOR ZONE 1 (FIRST FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 01 FIRE PROTECTION PLAN – BUILDING A

SCALE: 1/8"=1'-0"

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP101-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

CODED NOTES ⬡

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. DROP SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02
FIRE PROTECTION PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP101-A

CD PROGRESS SET

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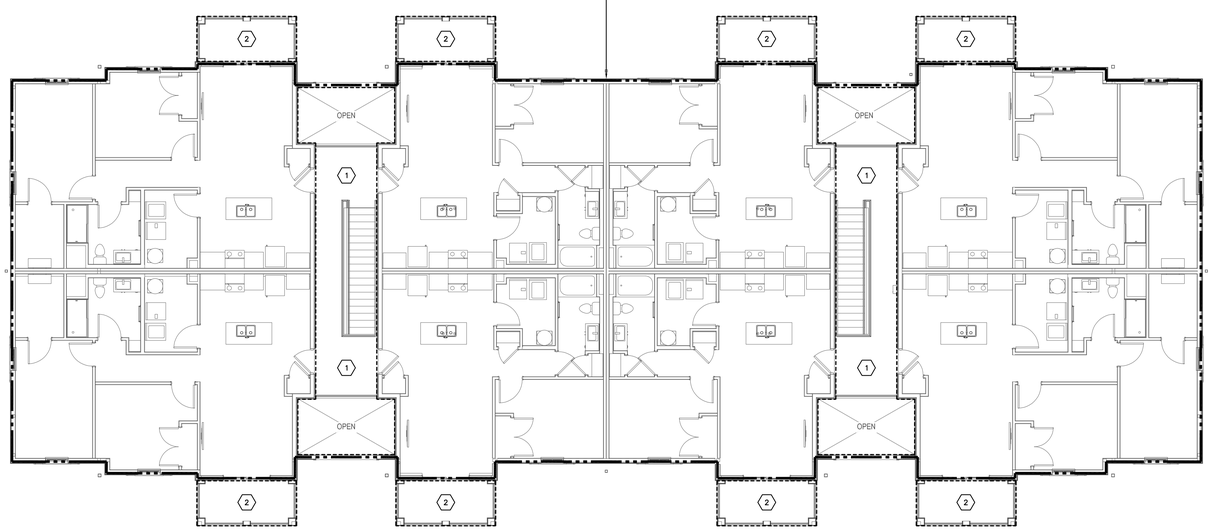
F.P. SPRINKLER ZONE 3 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 3 (THIRD FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 03 FIRE PROTECTION PLAN – BUILDING A
SCALE: 1/8"=1'-0"

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP102-A-24217.DWG

PRATER
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6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

CODED NOTES

1. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.

2. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03
FIRE PROTECTION PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP102-A

CD PROGRESS SET

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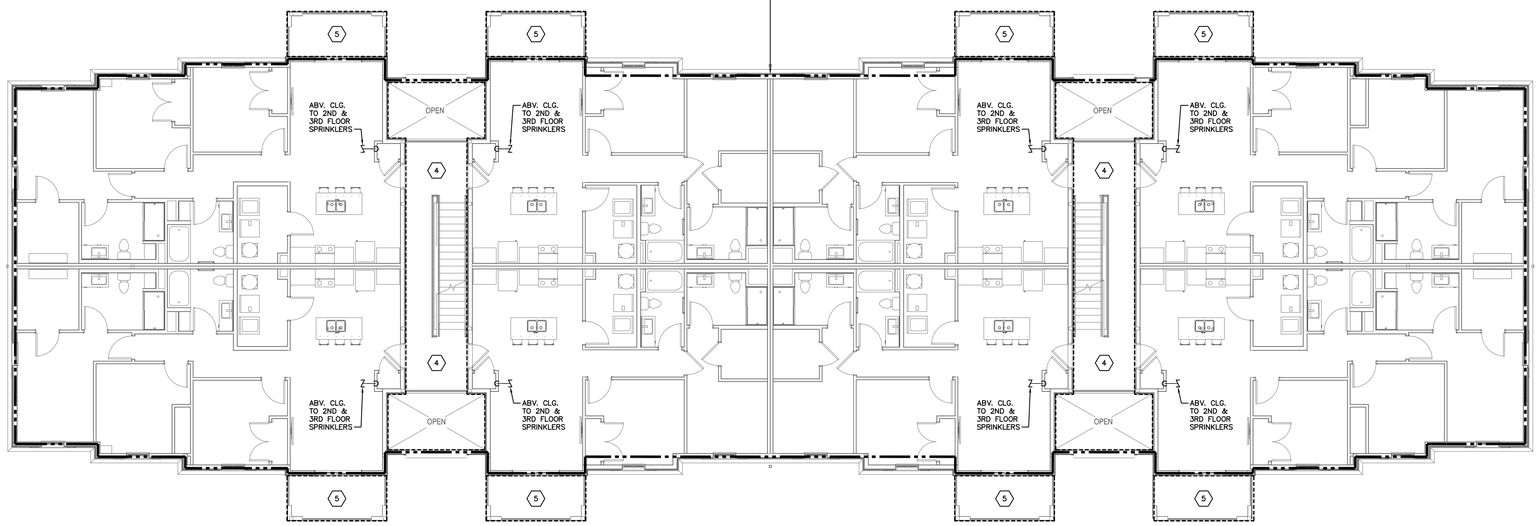
F.P. SPRINKLER ZONE 2 NOTE:

PROVIDE SPRINKLER PROTECTION FOR ZONE 2 (SECOND FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.

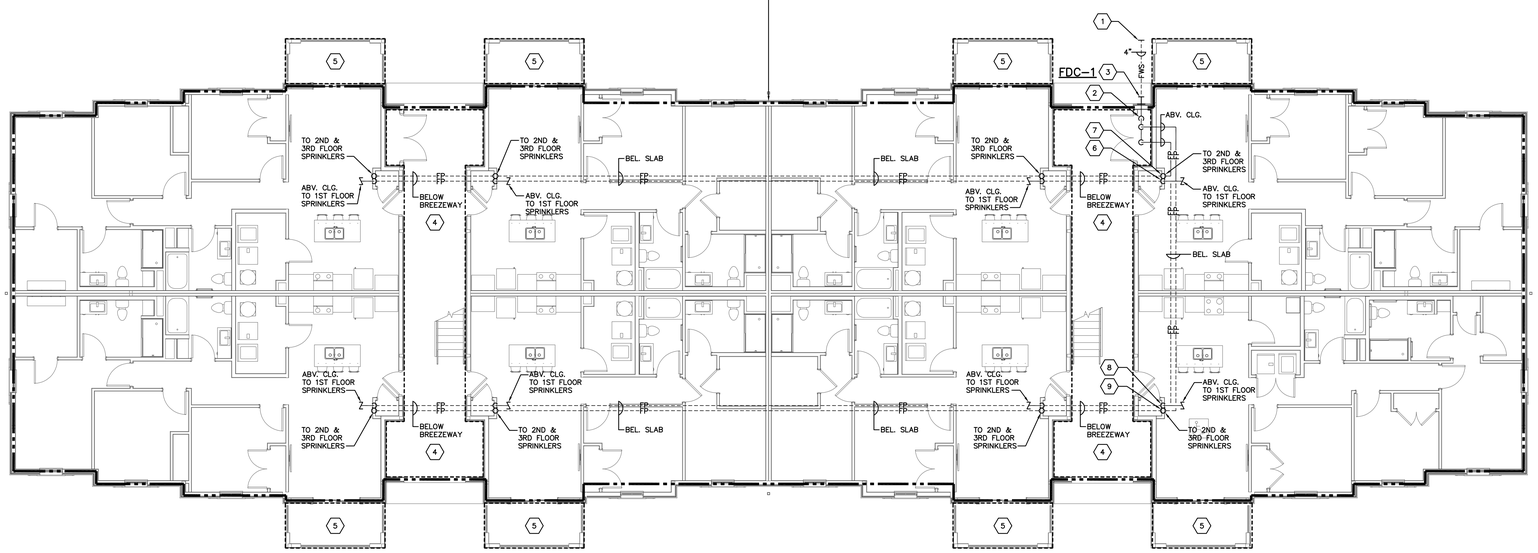


LEVEL 02 FIRE PROTECTION PLAN – BUILDING B

SCALE: 1/8"=1'-0"

F.P. SPRINKLER ZONE 1 NOTE:

PROVIDE SPRINKLER PROTECTION FOR ZONE 1 (FIRST FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 01 FIRE PROTECTION PLAN – BUILDING B

SCALE: 1/8"=1'-0"

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
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5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. DROP SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02
FIRE PROTECTION PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP103-B

CD PROGRESS SET

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP103-B-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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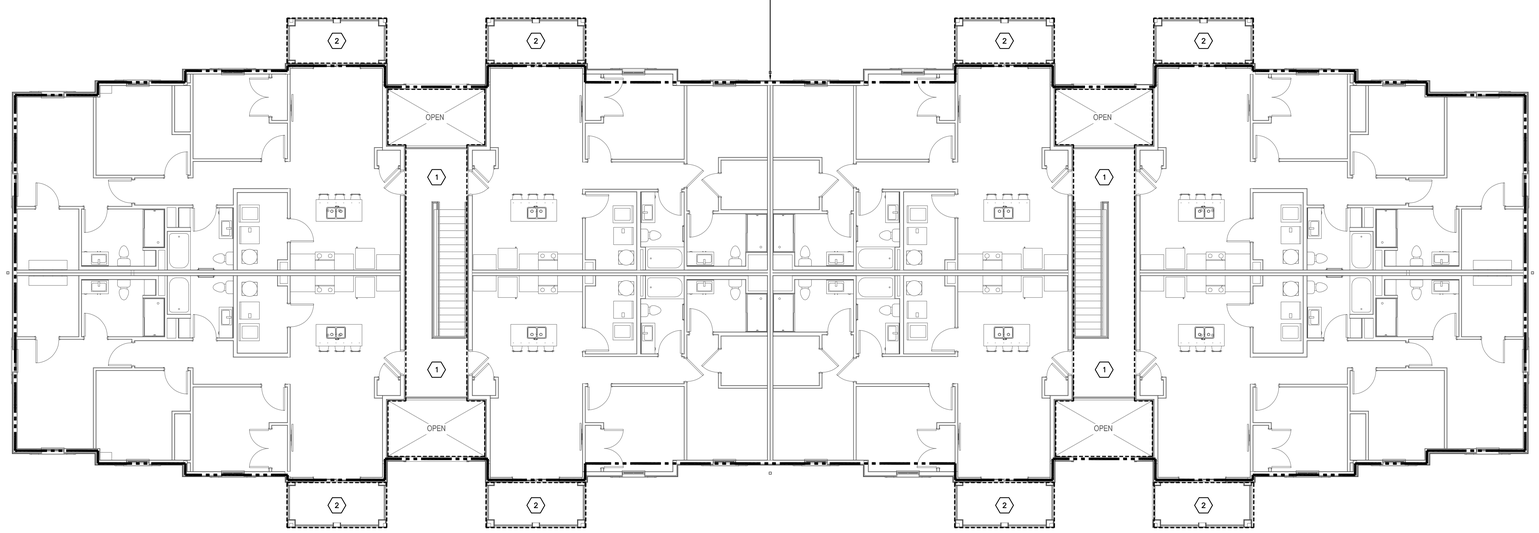
F.P. SPRINKLER ZONE 3 NOTE:

PROVIDE SPRINKLER PROTECTION FOR ZONE 3 (THIRD FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 03 FIRE PROTECTION PLAN – BUILDING B

SCALE: 1/8"=1'-0"

CODED NOTES

1. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
2. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03
FIRE PROTECTION PLANS

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

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B.BURNS	B.BURNS	C.ANDERSON	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP104-B

CD PROGRESS SET

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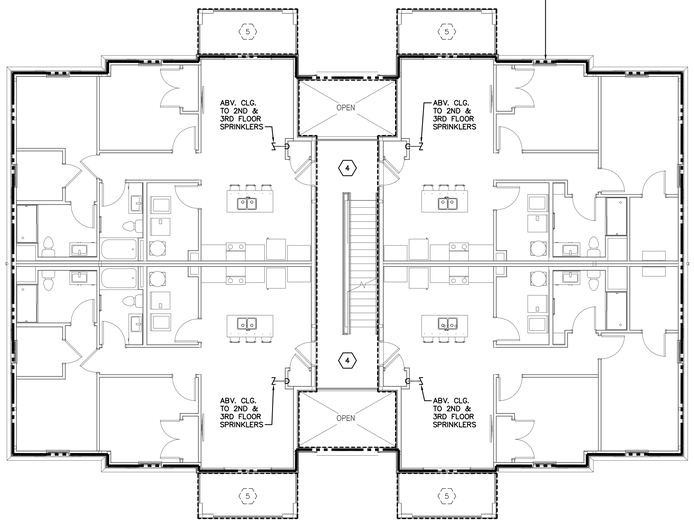
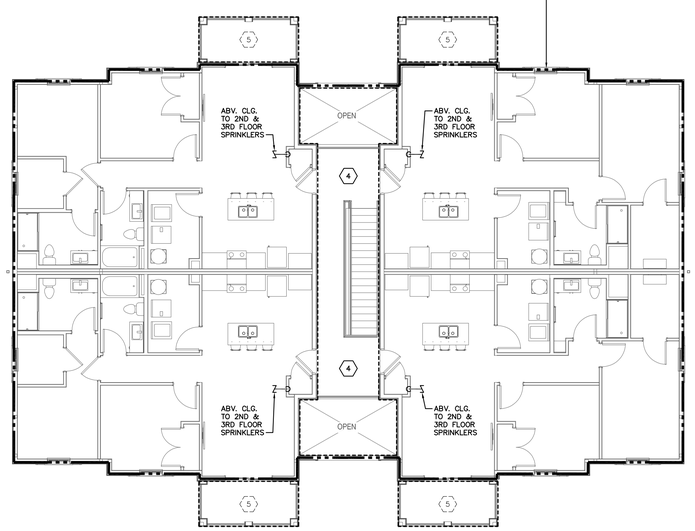
F.P. SPRINKLER ZONE 2 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 2 (SECOND FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



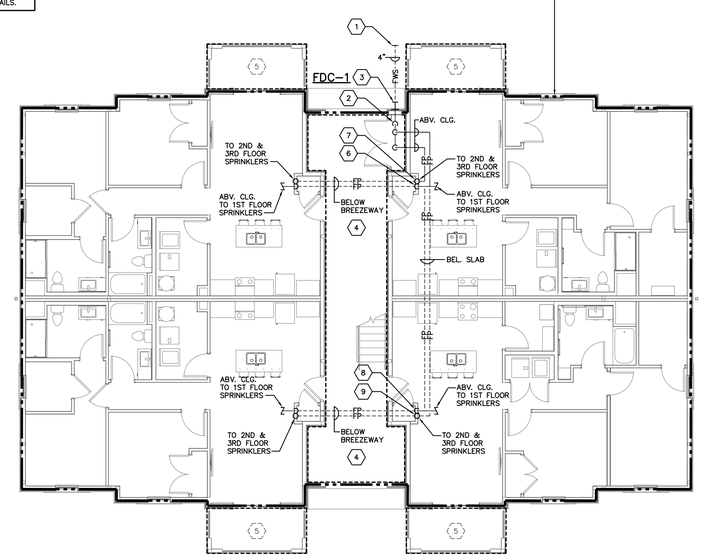
LEVEL 02 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"

F.P. SPRINKLER ZONE 3 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 3 (THIRD FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 03 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"

F.P. SPRINKLER ZONE 1 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 1 (FIRST FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 01 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. DROP SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE, TYPICAL AT 7 LOCATIONS.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C
FIRE PROTECTION PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
FP105-C
CD PROGRESS SET

FP105-C-24217.DWG

PRATER
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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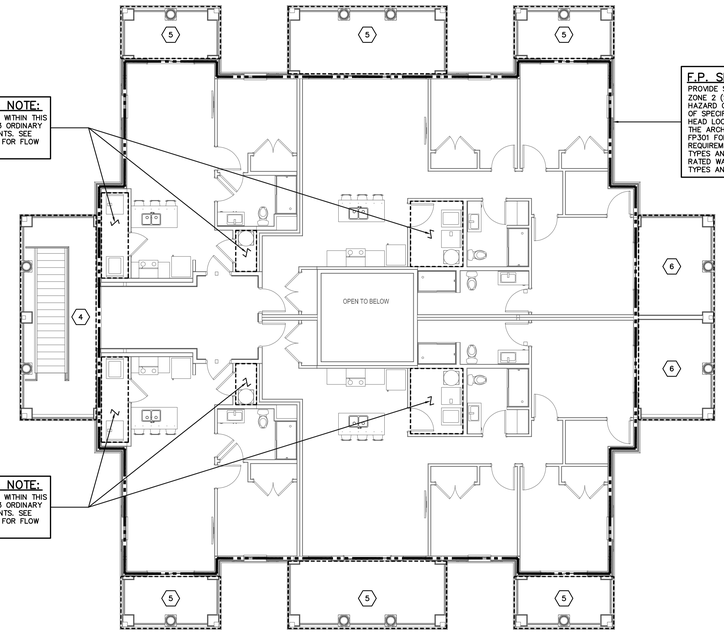


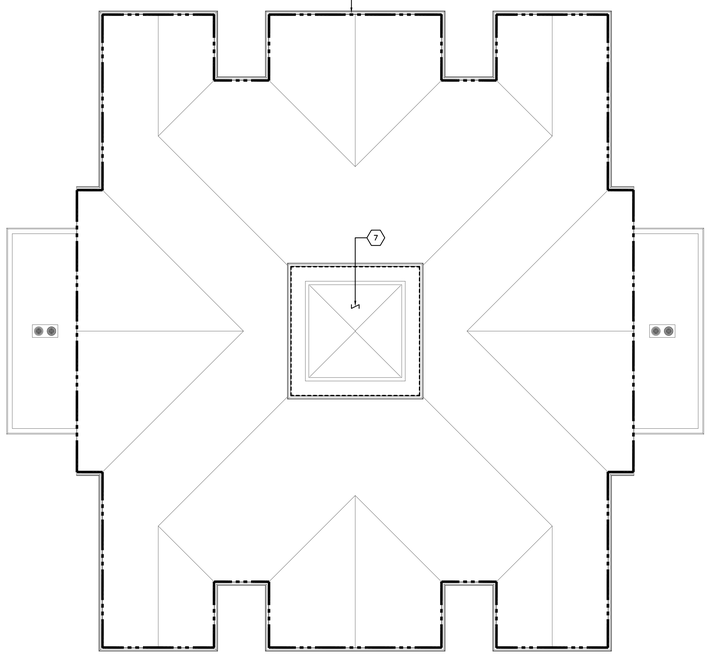
F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.

F.P. SPRINKLER ZONE 2 NOTE:
PROVIDE SPRINKLER PROTECTION FOR THE OVERALL AREA ZONE 2 (SECOND FLOOR) PER NFPA PAMPHLET NO. 13 LIGHT HAZARD OCCUPANCY REQUIREMENTS, WITH THE EXCEPTION OF SPECIFIC SUB–AREAS AS SHOWN. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.

F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.

LEVEL 02 FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'–0"

F.P. SPRINKLER ZONE 3 NOTE:
PROVIDE A DRY PIPE SPRINKLER SYSTEM FOR THE ATTIC SPACE OF THIS AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA 13 ORDINARY HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.



ROOF FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'–0"

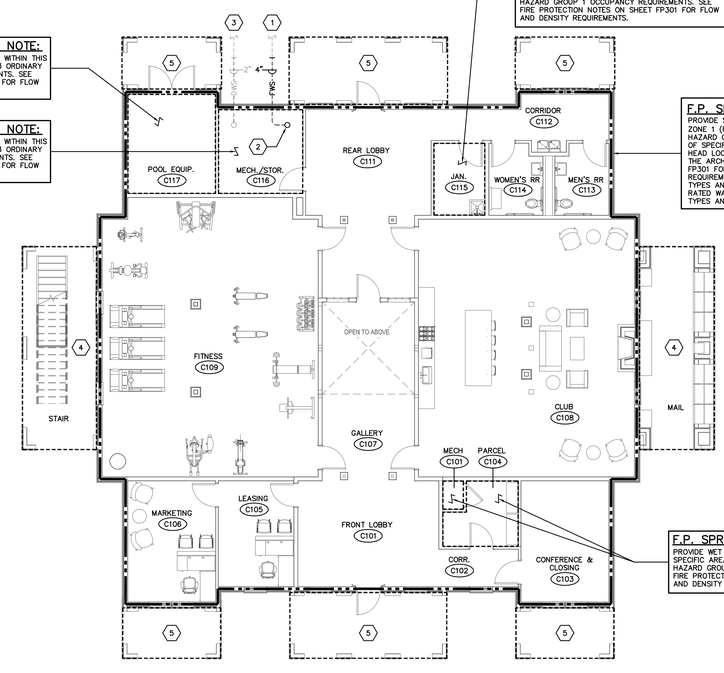
F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.

F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 2 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.

F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.

F.P. SPRINKLER ZONE 1 NOTE:
PROVIDE SPRINKLER PROTECTION FOR THE OVERALL AREA ZONE 1 (FIRST FLOOR) PER NFPA PAMPHLET NO. 13 LIGHT HAZARD OCCUPANCY REQUIREMENTS, WITH THE EXCEPTION OF SPECIFIC SUB–AREAS AS SHOWN. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.

F.P. SPRINKLER SUB–AREA NOTE:
PROVIDE WET PIPE SPRINKLER PROTECTION WITHIN THIS SPECIFIC AREA AS REQUIRED PER NFPA 13 ORDINARY HAZARD GROUP 1 OCCUPANCY REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOW AND DENSITY REQUIREMENTS.



LEVEL 01 FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'–0"

FP106–D–24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM SITE FIRE WATER SERVICE LOOP TO 5'–0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET FP200 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. 2" DOMESTIC WATER SERVICE (DWS). SEE PLUMBING DRAWINGS.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN BUILDING FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY–BARREL SIDE–WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. PROVIDE EXTENDED COVERAGE DRY–BARREL SIDE–WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF OPEN TERRACE. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
7. PROVIDE HIGH TEMPERATURE HEADS IN CUPOLA.

#	DATE	CHANGE DESCRIPTION

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DRAWING TITLE:
BUILDING D - LEVEL 01 & 02
FIRE PROTECTION PLANS

PROGRESS DRAWING
NOT FOR CONSTRUCTION

05/01/2025

23446

FD106-D

CD PROGRESS SET

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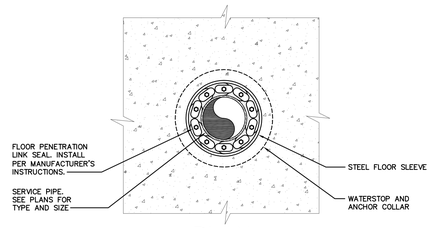
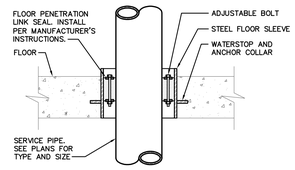


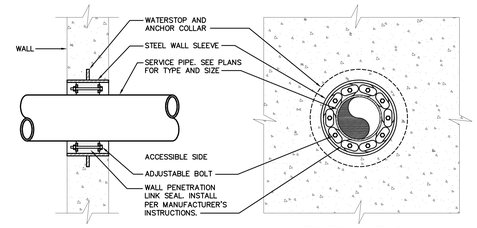
PLAN



NOTE:
DELETE WATERSTOP AND ANCHOR COLLAR IF FLOOR IS CORE DRILLED.

FLOOR SLAB PENETRATION WATERTIGHT PIPE SEAL DETAIL

NO SCALE

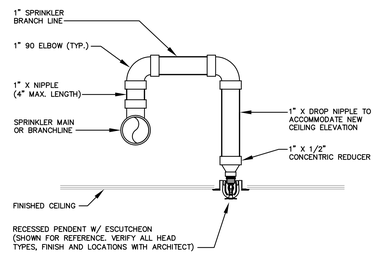


ELEVATION

NOTE:
DELETE WATERSTOP AND ANCHOR COLLAR IF WALL IS CORE DRILLED.

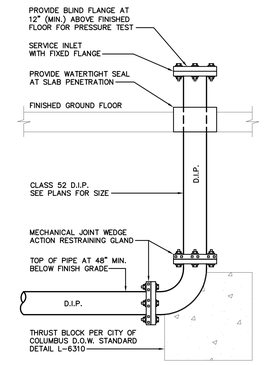
WALL PENETRATION WATERTIGHT PIPE SEAL DETAIL

NO SCALE



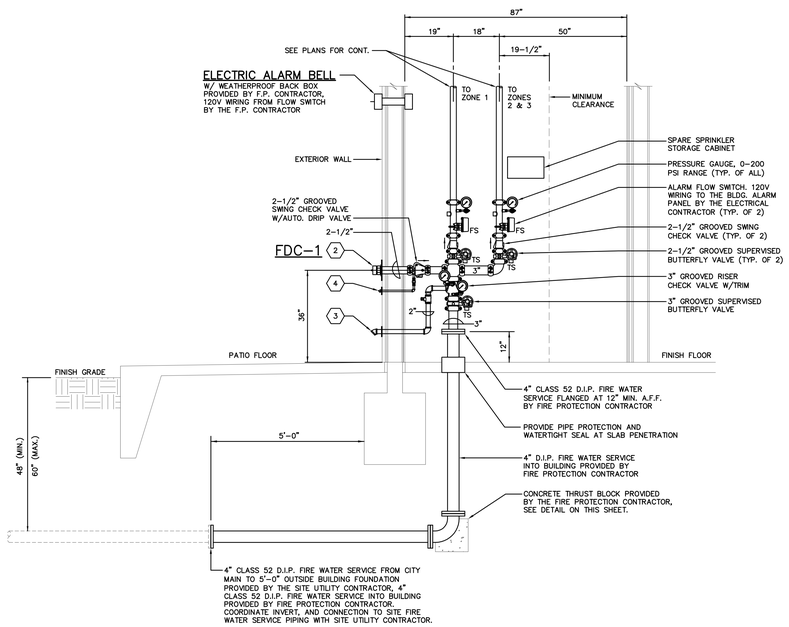
TYPICAL ARMOVER DETAIL

NO SCALE



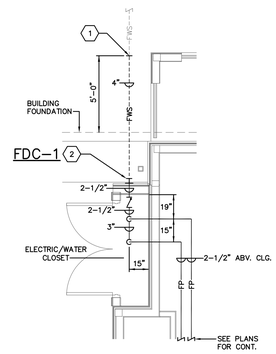
THRUST BLOCK DETAIL

NO SCALE



BUILDINGS A, B, & C FIRE WATER SERVICE RISER DIAGRAM

NO SCALE



BUILDINGS A, B, & C ENLARGED ELECTRICAL/WATER CLOSET

SCALE: 1/8"=1'-0"

WATER SERVICE NOTES

1. WATER SERVICE ENTRANCE MATERIALS, INSTALLATION, AND ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO METERS AND BACKFLOW PREVENTERS) TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF COLUMBUS DIVISION OF WATER, VERIFIED IN ADVANCE OF ANY WORK.
2. PROVIDE FLOOR AND WALL SUPPORT ASSEMBLIES AS REQUIRED TO SECURE AND SUPPORT ITEMS INDICATED AT STRUCTURE, PIPE STANDS EQUAL TO ANVIL FIG. 62, WALL BRACKETS EQUAL TO ANVIL FIG. 199.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SCALED AND/OR DIMENSIONED ROUGH-IN DRAWING TO THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL.

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP201-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
3. 2" MAIN DRAIN TO OUTSIDE OF BUILDING AT 12" ABOVE FINISH GRADE. PROVIDE 45 DEGREE ELBOW ON OUTLET TURNED DOWN AND AWAY FROM WALL. PROVIDE WATERTIGHT SEAL AND WALL FLANGE AT WALL PENETRATION. PROVIDE SPLASHBLOCK AT GRADE.
4. 3/4" AUTOMATIC DRIP VALVE DRAIN PIPING TO OUTSIDE OF BUILDING WITH 45 DEGREE ELBOW ON OUTLET TURNED DOWN AND AWAY FROM WALL. PROVIDE WATERTIGHT SEAL AND WALL FLANGE AT WALL PENETRATION.

BUILDING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR RISER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. FIRE PROTECTION SPRINKLER PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY ABOVE THE 1ST FLOOR CEILING AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL. NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZWAY WALLS, AND ABOVE THE 3RD FLOOR CEILING.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FIRE PROTECTION ENLARGED PLAN & DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP201

CD PROGRESS SET

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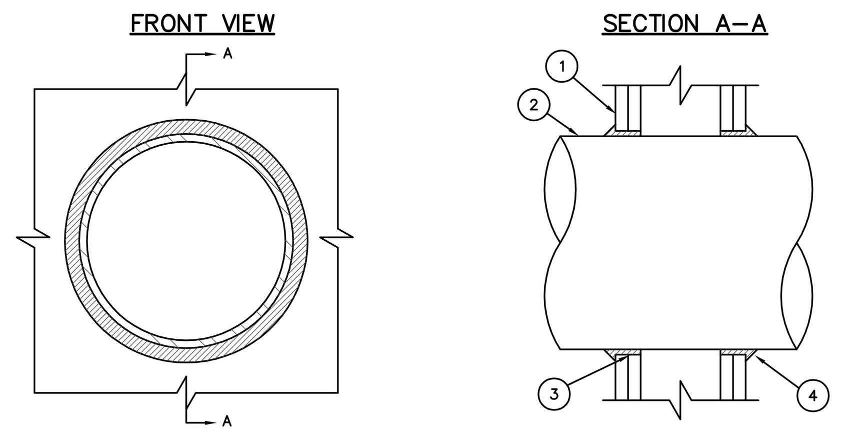
UL/CUL SYSTEM NO. WL1085

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..



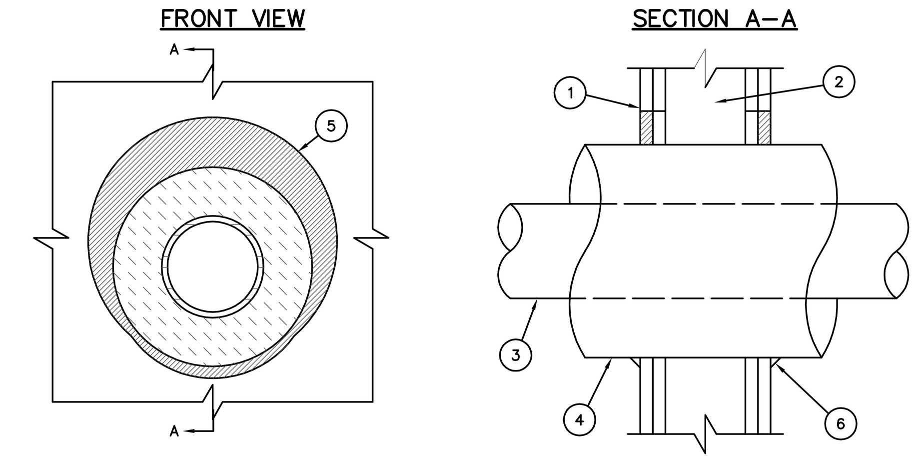
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

UL/CUL SYSTEM NO. WL5029

INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR, AND 2-HR
T RATING = 1/2-HR., 3/4 HR., 1-HR., AND 1-3/4 HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.



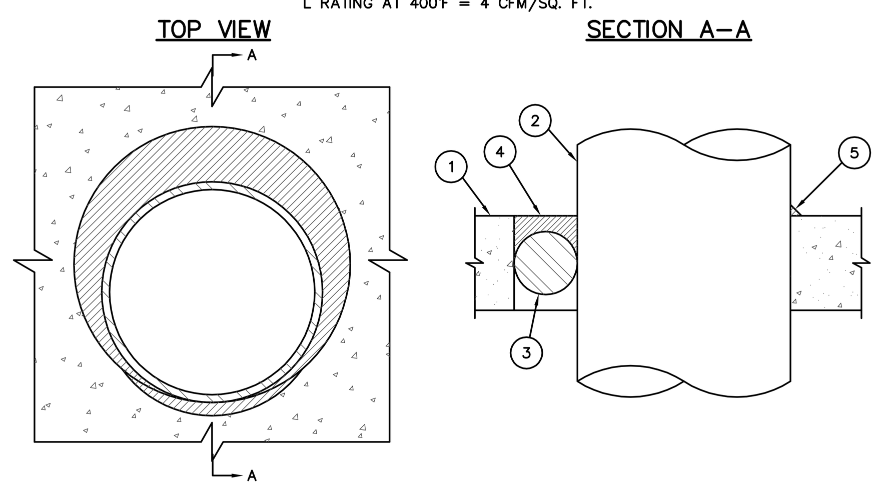
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL/CUL SYSTEM NO. CAJ1154

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



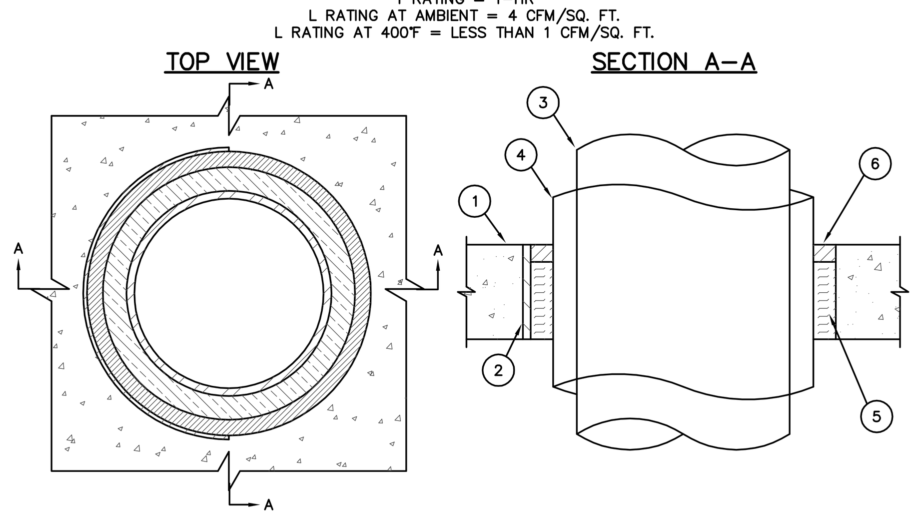
1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. CAJ5091

INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2-HR
T RATING = 1-HR
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.



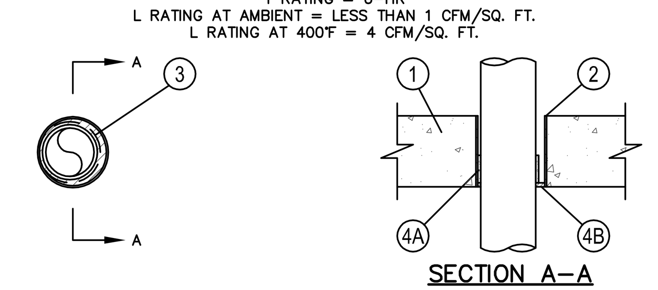
1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 20".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 2-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

UL/CUL SYSTEM NO. CAJ2569

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2-HR
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



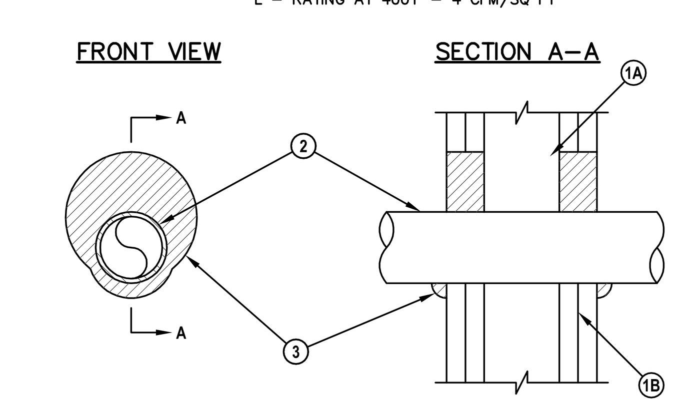
1. FLOOR OR WALL ASSEMBLY —MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE FLOOR OR WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE —(OPTIONAL) —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH PENETRANTS —ONE NONMETALLIC PIPE TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MAX DIAM AND TYPE OF PENETRANT USED AS TABULATED IN ITEM 4A. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. POLYVINYL CHLORIDE (PVC) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE —NOM 4 IN. DIAM (OR SMALLER) SDR13.5 CPVC FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   C. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE ABS FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
4. FIRESTOP SYSTEM —THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* – WRAP STRIP —ONE LAYER OF INTUMESCENT WRAP STRIP IS CONTINUOUSLY WRAPPED AROUND THE PIPE WITH ENDS BUTTED AND HELD IN PLACE WITH INTEGRATED TAPE. WRAP STRIP INSTALLED RECESSED 1/4 IN. (6 MM) FROM BOTTOM SURFACE OF FLOOR OR BOTH WALL SURFACES TO ACCOMMODATE FILL MATERIAL. SIZE OF WRAP STRIP FOR A GIVEN SIZE PENETRANT IS SHOWN IN THE TABLE BELOW.
   B. FILL, VOID OR CAVITY MATERIAL* —MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

Product Designation	Nom Pipe Size Diam in. (mm)	Max Opening Diam in. (mm)	Annular Space Min in. (mm)	Annular Space Max in. (mm)	Nom Wrap Strip Thick in. (mm)	Nom Wrap Strip Width in. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	9/16 (14)	3/16 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (10)	1-1/8 (28)	3/8 (10)	1-3/4 (44)

UL/CUL SYSTEM NO. W-L-2377

PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
L – RATING AT AMBIENT – LESS THAT 1 CFM/SQ FT
L – RATING AT 400°F – 4 CFM/SQ FT



1. WALL ASSEMBLY – THE 1 AND 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* – THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3 IN. THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT – ONE NONMETALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO A MAX 1-1/4 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) FLOWGUARD GOLD® SDR11 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) BLAZEMASTER® SDR13.5 CPVC PIPE OR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
3. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. AT POINT CONTACT LOCATION, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.

F.P. EQUIPMENT SCHEDULE

1. FINAL DECISION ON THE FINISH AND/OR COLOR AND STYLE OF SPRINKLER HEADS TO BE DETERMINED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE DURING THE REVIEW PROCESS.
2. THE ARCHITECT RESERVES THE RIGHT TO RELOCATE OR ADD SPRINKLER HEADS TO THE SPRINKLER CONTRACTOR'S LAYOUT.

FIRE PROTECTION SPRINKLER HEADS

A. CONCEALED PENDENT HEADS (APARTMENTS); SIMILAR TO VIKING MODEL VK498 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.8 "K" FACTOR, AND LOW-PROFILE REMOVABLE COVER PLATE WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. UNLESS NOTED OTHERWISE, IN AREAS WITH DRYWALL, PANEL BOARD OR OTHER DROP CEILING STRUCTURE WITH CONCEALED SUPPLY PIPING. HEADS LOCATED IN WOOD PANELS TO BE PROVIDED WITH MANUFACTURER APPLIED FINISH COLOR FOR COVER PLATE AS APPROVED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

B. RECESSED PENDENT HEADS (APARTMENTS); SIMILAR TO VIKING MODEL VK472 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.8 "K" FACTOR AND MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR, WITH HORIZONTAL DEFLECTOR. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. PENDENT AND SIDEWALL HEADS FOR USE IN AREAS WITH CONCEALING "FINISH" STRUCTURE WITH CONCEALED SUPPLY PIPING; DRY BARREL HEADS FOR USE IN AREAS SUBJECT TO FREEZING WITH ADJACENT CONDITIONED SPACE FOR INSTALLATION OF WET SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

C. UPRIGHT HEADS (APARTMENTS); SIMILAR TO VIKING MODEL VK467 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 4.9 "K" FACTOR AND MANUFACTURER APPLIED FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. HEADS TO BE LISTED "QUICK RESPONSE" TYPE. FOR USE IN STORAGE, MECHANICAL AND IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

D. CONCEALED PENDENT HEADS (CLUBHOUSE); SIMILAR TO VIKING MODEL VK4621 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR, AND LOW-PROFILE REMOVABLE COVER PLATE WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. UNLESS NOTED OTHERWISE, IN AREAS WITH DRYWALL, PANEL BOARD OR OTHER DROP CEILING STRUCTURE WITH CONCEALED SUPPLY PIPING. HEADS LOCATED IN WOOD PANELS TO BE PROVIDED WITH MANUFACTURER APPLIED FINISH COLOR FOR COVER PLATE AS APPROVED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

E. RECESSED PENDENT HEADS (CLUBHOUSE); SIMILAR TO VIKING MODEL VK3021 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR, WITH HORIZONTAL DEFLECTOR. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. PENDENT AND SIDEWALL HEADS FOR USE IN AREAS WITH CONCEALING "FINISH" STRUCTURE WITH CONCEALED SUPPLY PIPING; DRY BARREL HEADS FOR USE IN AREAS SUBJECT TO FREEZING WITH ADJACENT CONDITIONED SPACE FOR INSTALLATION OF WET SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

F. UPRIGHT HEADS (CLUBHOUSE); SIMILAR TO VIKING MODEL VK300 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MANUFACTURER APPLIED FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. HEADS TO BE LISTED "QUICK RESPONSE" TYPE. FOR USE IN STORAGE, MECHANICAL AND IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

G. EXTENDED COVERAGE SIDEWALL HEADS; SPRINKLER HEAD TO BE SIMILAR TO VIKING MODEL VK305 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MANUFACTURER APPLIED FINISH, MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. PROVIDE DEFLECTOR HORIZONTAL AND/OR VERTICAL DEFLECTOR AS REQUIRED BY AREA OF COVERAGE. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

H. SPRINKLER HEAD GUARD; PROVIDE A HARD-WIRE BRIGHT ZINC VIKING SPRINKLER GUARD MODEL D-1 CAGE DESIGNED TO ENCASE THE SPRINKLER AND PROTECT IT IN AREAS WHERE IT MAY BE SUBJECT TO POSSIBLE MECHANICAL DAMAGE.

NOTES:

1. EQUAL MANUFACTURER'S; RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION
2. FOR BIDDING PURPOSE THIS CONTRACTOR SHALL PROVIDE CONCEALED SPRINKLER HEADS IN ALL DRYWALL CEILINGS AND/OR SPECIAL CONSTRUCTION CEILINGS SUCH AS PANEL CEILINGS, METAL CEILINGS DECORATIVE PANELS AND OTHER PRE-MANUFACTURED CEILING PANELS.
3. FOR BIDDING PURPOSE THIS CONTRACTOR SHALL PROVIDE RECESSED SPRINKLER HEADS IN ALL ACOUSTICAL TILE CEILINGS ALL FINISHES AND OR COLORS OF SPRINKLER HEADS SHALL BE DETERMINED BY THE ARCHITECT USING THE STANDARD AVAILABLE COLORS OR FINISHES AVAILABLE FROM THE MANUFACTURER.
4. THE ARCHITECT AND OWNER'S REPRESENTATIVE RESERVES THE RIGHT OF REVISING THE FINISH AND/OR THE STYLE OR TYPE OF SPRINKLER HEADS DURING THE REVIEW PROCESS.
5. LOCATE SPRINKLERS SO THEY ARE COORDINATED WITH INTERIOR DESIGN TO MINIMIZE COVERAGE OBSTRUCTIONS.

FDC-1; FIRE DEPT. INLET CONNECTION (APARTMENT BLDG'S)

A. SIMILAR TO POTTER ROEMER MODEL 5016; 2-1/2" FLUSH WALL MOUNTED SINGLE INLET FIRE DEPARTMENT CONNECTION. POLISHED CHROME 8" SQUARE BRASS IDENTIFICATION BASE PLATE, 2-1/2" FEMALE N.S.T. THREADS, PIN LUG HOSE THREAD SWIVEL, PIN LUG PLUG & CHAIN. COORDINATE EXACT INLET THREAD AND LOCATION REQUIREMENTS WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF ORDERING PARTS.

A. EQUAL MANUFACTURER'S; RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

FDC-2; FIRE DEPT. INLET CONNECTION (CLUBHOUSE)

A. SIMILAR TO POTTER ROEMER NO. 5795 SERIES WALL MOUNTED FIRE DEPARTMENT STORZ CONNECTION. 4" X 5" DIAMETER HARD COATED ALUMINUM. PROVIDE ALUMINUM BLIND COVER/CAP WITH CHAIN. PROVIDE POLISHED BRASS ROUND IDENTIFICATION PLATE. COORDINATE INLET THREAD AND LOCATION REQUIREMENTS WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF ORDERING PARTS.

A. EQUAL MANUFACTURER'S; RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

ELECTRIC ALARM BELL

A. SIMILAR TO POTTER ROEMER NO. 6230 10" ROUND BELL WITH 120V/1PH ELECTRIC DRIVE MOTOR AND STEEL CONSTRUCTION WITH RED ENAMEL FINISH.

B. EQUAL MANUFACTURER'S; RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—W—	WATER SERVICE LINE		CONCENTRIC REDUCER
—FP—	FIRE PROTECTION LINE		ECCENTRIC REDUCER
—D—	DRAIN LINE		TEE WITH NIPPLE & CAP
— DPS —	DRY PIPE SYSTEM		PLUGGED TEE
—FDC—	FIRE DEPARTMENT CONNECTION LINE		Y-TYPE STRAINER
—FPTC—	FIRE PUMP TEST CONNECTION LINE		BALL VALVE
	PENDANT TYPE SPRINKLER HEAD		APPROVED TYPE DRAIN VALVE
	UPRIGHT TYPE SPRINKLER HEAD		GATE VALVE (FLANGED BODY)
	CONCEALED SPRINKLER HEAD		GATE VALVE (SCREWED BODY)
	SIDEWALL SPRINKLER HEAD		FLOOR DRAIN
	DRY SPRINKLER HEAD		CURB BOX & VALVE
	DRY SPRINKLER HEAD (SIDEWALL)		CONNECT TO EXISTING
	CAPPED LINE		PRESSURE GAUGE
	EXISTING WORK TO REMAIN	F	FLOW SWITCH
	EXISTING WORK TO BE REMOVED	A	ABORT
	PIPE FLANGES	M	MANUAL PULL
	PIPE UNION		

FIRE PROTECTION ABBREVIATIONS

A.	COMPRESSED AIR	F.H.C.	FIRE HOSE CABINET
AB.	ABOVE	FLR.	FLOOR
A.D.	ACCESS DOOR	F.D.	FLOOR DRAIN
ARCH.	ARCHITECT	FURN.	FURNISH
BTM.	BOTTOM	F.E. CHEM.	FIRE EXTINGUISHER CHEM.
BLDG.	BUILDING	F.H.R.	FIRE HOSE RACK
CAB.	CABINET	F.H. & V.C.	FIRE HOSE & VALVE CAB.
C.I.	CAST IRON	F.P.	FIRE PROTECTION
CLG.	CEILING	GA.	GAGE
CONC.	CONCRETE	GEN.	GENERAL
CONN.	CONNECT	MFR.	MANUFACTURER
CONTR.	CONTRACTOR	MECH.	MECHANICAL
C.W.	COLD WATER	MTD.	MOUNTED
CONT.	CONTINUATION	NOM.	NOMINAL
DTL.	DETAIL	PLBG.	PLUMBING
DIA.	DIAMETER	PRESS.	PRESSURE
DN.	DOWN	REQD.	REQUIRED
DR.	DOOR	RM.	ROOM
ELEC.	ELECTRICAL	SCHED.	SCHEDULE
EXIST.	EXISTING	SHT.	SHEET
F.	FIRE	T.S.	TAMPER SWITCH
FT. HD.	FEET OF HEAD	TYP.	TYPICAL
F.D.V.	FIRE DEPT. HOSE CONNECTION VALVE	U.N.O.	UNLESS NOTED OTHERWISE
F.E.C.	FIRE EXTINGUISHER CABINET	W/	WITH

FLOW TEST INFORMATION

FLOW TEST ID: 3688	NO. OF TEST RUN: 1		
FLOW HYDRANT 1:	1E OF SCHWARTZ RD ON REFUGEE RD		
FLOW HYDRANT 2:	1W OF SCHWARTZ RD ON REFUGEE RD		
PRESSURE HYDRANT:	2E OF SCHWARTZ RD ON REFUGEE RD		
PRESSURE HYDRANT ID:	0143A04		
DATE:	11/06/2024	PIPE SIZE:	24"
TIME:	11:35:00 AM	ELEVATION:	760'
STATIC PRESSURE:	75 PSI	HYDRANT OWNER:	COLUMBUS
RESIDUAL PRESSURE:	71 PSI	COEFFICIENT:	0.77
PITOT 1:	37 PSI	CH:	950'
PITOT 2:	14 PSI	HGL:	933'
OUTLET:	4" DIFF		
FLOW (GPM):	3870		
FLOW @ 20 PSI:	>5000		
WATER DISTRICT:	PARSONS		

THIS FLOW TEST IS FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING A NEW FLOW TEST FOR THE HYDRAULIC SPRINKLER CALCULATIONS.

F.P. CONTRACT NOTE

PUBLIC WATERWORKS SYSTEMS – FLOW TEST DATA:

SOURCE WATER FLOW TEST DATA INCLUDED HEREIN HAS BEEN OBTAINED FROM THE DIVISION OF WATER AND IS DATED WITHIN THE TIME LIMITATIONS SET FORTH BY NFPA PAMPHLET 13. THIS DATA, INCLUDING ALL DISCLAIMERS, HAS THEREFORE BEEN UTILIZED TO CALCULATE THE INCOMING BUILDING FIRE PROTECTION WATER SERVICE LINE SIZE AS REFLECTED ON THESE CONTRACT DOCUMENTS AS THE BASIS OF DESIGN. AS SUCH, UNDER THIS CONTRACT AND IN ACCORDANCE WITH THE DIVISION OF WATER FLOW TEST PRESSURE FLUCTUATION DISCLAIMER, OHIO BUILDING CODE SECTION 903.3.5, AND NFPA PAMPHLET 13 SECTION 24.2.2.2 THIS CONTRACTOR SHALL ACCOUNT FOR A 15 PSIG SHIFT IN THE STATIC/RESIDUAL PRESSURE POINTS OBSERVED/RECORDED IN FLOW TEST DATA RESULTS. MOREOVER, BECAUSE THE INFORMATION CONTAINED IN THESE DATA POINTS IS DYNAMIC AND MAY CHANGE OVER TIME THE 15 PSIG ADJUSTMENT SHALL ACCOUNT FOR VARIOUS FACTORS AFFECTING THE RECORDED FLOW PRESSURE POINTS INCLUDING, BUT NOT LIMITED TO SEASONAL, TIME-OF-DAY, CHANGES IN CONSUMER DEMANDS AND/OR BUILDING USAGE CHARACTERISTICS AT THE AREA OF THE FLOW TEST WHICH RESULT IN PRESSURE FLUCTUATIONS.

FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION CONTRACT WORK IS TO COMPLY WITH THE APPLICABLE NFPA STANDARDS REFERENCED IN THE BUILDING CODE AS ADMINISTERED BY THE LOCAL REVIEW/INSPECTION/APPROVAL AUTHORITIES, THE INSURANCE UNDERWRITER'S GUIDELINES, THE LOCAL FIRE PREVENTION AUTHORITY (FIRE MARSHALL'S OFFICE/FIRE DEPARTMENT), AND ANY OTHER AUTHORITIES HAVING JURISDICTION, AS CONFIRMED AND VERIFIED IN ADVANCE BY THE LICENSED F.P. CONTRACTOR.
2. THE BUILDING IS TO BE TOTALLY SPRINKLED PER NFPA PAMPHLET NO. 13 AND PROVIDED WITH STANDPIPES REQUIRED FOR COMPLETE COVERAGE/PROTECTION PER NFPA PAMPHLET NO. 14.
3. THE BUILDING SPRINKLER SYSTEM IS TO BE ZONED BY FLOORS AND AT OTHER SPECIFIC AREAS AS INDICATED ON THE DRAWINGS.
4. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND SIZED ACCORDING TO NFPA PAMPHLET NO. 13, THE APPLICABLE BUILDING CODE AND THE INSURER'S GUIDELINES, RULES AND REGULATIONS (REQUIRED FOR APPROVAL). SPECIFIC AREAS DESIGNATED ON THE DRAWINGS SHALL MAINTAIN FLOWS AND DENSITIES AS FOLLOWS:
   A. LIGHT HAZARD OCCUPANCY = .1 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 225 SQUARE FEET PER HEAD.
   B. ORDINARY HAZARD GROUP 1 OCCUPANCY = .15 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
   C. ORDINARY HAZARD GROUP 2 OCCUPANCY = .2 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
   D. EXTRA HAZARD GROUP 1 OCCUPANCY = 0.3 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 2500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 100 SQUARE FEET PER HEAD.
   E. RESIDENTIAL OCCUPANCY (INCLUDES DWELLING UNITS AND ASSOCIATED CORRIDORS) = MINIMUM LISTED FLOW RATE FOR THE SPRINKLERS USED OR .1 GPM PER SQUARE FOOR OVER THE AREA THAT INCLUDES THE FOUR (4) HYDRAULICALLY MOST DEMANDING SPRINKLERS; WHICHEVER IS GREATER. SPACING SHALL NOT EXCEED THAT LISTED FOR THE SPRINKLERS USED.
   F. ADD A TOTAL ALLOWANCE OF 100 GPM FOR SIMULTANEOUS USE OF INSIDE & OUTSIDE HOSE STREAMS AT THE APPROPRIATE CONNECTION POINT(S) TO THE SUPPLY PIPING SYSTEM FOR LIGHT HAZARD OCCUPANCY; 250 GPM FOR ORDINARY HAZARD; 500 GPM FOR EXTRA HAZARD.
5. THE SPRINKLER SYSTEMS SHALL BE SUPPLIED FROM THE BUILDING STANDPIPES AS SHOWN ON THE DRAWINGS. THE STANDPIPES SHALL BE SIZED PER NFPA PAMPHLET NO. 14, AND THE APPLICABLE BUILDING CODE TO PROVIDE 500 GPM FOR THE FIRST STANDPIPE, AND 250 GPM PER EACH ADDITIONAL STANDPIPE, TO A MAXIMUM 1250 GPM. TOTAL DEMAND FOR THE FIRE PROTECTION SYSTEM IS TO BE CALCULATED BASED ON EITHER THE STANDPIPE OR SPRINKLER (INCLUDING HOSE STREAMS) FLOW REQUIREMENT, WHICHEVER IS GREATER.
6. THE FIRE PROTECTION CONTRACTOR SHALL SIZE ALL FIRE PROTECITON SYSTEM PIPING, WITH THE EXCEPTION OF PIPING SIZES INDICATED ON THESE PLANS AT SPECIFIC LOCATIONS.
7. FIRE PROTECTION CONTR. SHALL PROVIDE ALL ADDITIONAL PIPING, EQUIP. AND ACCESSORIES WHETHER SHOWN ON DWG'S. OR NOT, WHICH IS REQ'D TO PROVIDE COMPLETE STANDPIPE, SPRINKLER & OTHER FIRE PROTECTION SYSTEMS FOR THE BUILDING.
8. FIRE PROTECTION CONTR. TO LOCATE AND INSTALL ALL SPRINKLER HEADS IN LAY-IN CEILINGS PER DETAILS INCLUDED WITH THESE DRAWINGS.
9. COORD. ALL SPRINKLER DROPS FOR HEAD LOCATION WITH CLG. GRIDS, STRUCTURE AND WORK IN OTHER CONTRACTS IN SAME AREA. VERIFY LOCATION OF ALL ITEMS/ELEMENTS FROM ARCHITECTURAL & OTHER CONTRACTS PLANS INCLUDED W/COMPLETE CONSTRUCTION DOCUMENTS, & COORD. INSTALLATION W/ APPROPRIATE CONTRACTORS.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, DRAINS ASSOCIATED WITH WORK/EQUIPMENT INCLUDED IN THE FIRE PROTECTION CONTRACT ARE TO BE EXTENDED FULL SIZE TO LOCATIONS SUBJECT TO APPROVAL DURING REVIEW OF REQUIRED LAYOUT PLANS. APPROPRIATE DRAIN DISCHARGE POINTS ARE AS FOLLOWS, LISTED IN ORDER OF PREFERENCE:
    A. BUILDING EXTERIOR, WITH CHROME FINISHED 45 DEGREE OUTLET & WALL FLANGE, AND SPLASHBLOCK AT GRADE/SURFACE IN RESTRICTED ACCESS AREAS (DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS, INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS)
    B. BUILDING INTERIOR, TO JANITORS RECEPTOR OR SERVICE SINK IN RESTRICTED ACCESS AREAS, WITH 3" AIR GAP ABOVE FIXTURE FLOOD RIM AT DISCH. POINT
    C. BUILDING INTERIOR, TO FLOOR SINK, HUB DRAIN OR FLOOR DRAIN IN RESTRICTED ACCESS AREAS, WITH 3" AIR GAP ABOVE FLOOD RIM AT ANY DRAIN INLET. DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS, INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS.
    D. IF DRIP PANS ARE REQUIRED AT FIRE PROTECTIOIN INSTALLATIONS, AND DRAIN DISCHARGE POINTS INDICATED ABOVE ARE NOT AVAILABLE/ACCESSIBLE, DRAIN(S) FROM DRIP PANS MAY EXTEND TO DISCHARGE 3" ABOVE FLOOR IN NON-CRITICAL RESTRICTED ACCESS AREAS OUTSIDE THE ENCLOSED AREA AS A FIRST PRIORITY, OR INSIDE THE ENCLOSURE AS SECOND PRIORITY
11. ALL DRAINS THAT DISCHARGE TO GRADE ARE TO BE FURNISHED WITH A SPLASHBLOCK OF APPROPRIATE SIZE AND CONFIGURATION TO RECEIVE ALL FLOW FROM OUTLET(S), UNLESS DIRECTED OTHERWISE. DRAINS THAT DISCHARGE TO PAVED SURFACES DO NOT REQUIRE SPLASHBLOCKS.
12. FIRE PROTECTION CONTR. TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQ'D. FOR COORD. AND APPROVED INSTALLATION.
13. PROVIDE INSPECTOR'S TEST CONNECTION ASSEMBLIES AS SHOWN ON DRAWINGS, AND ANY ADDITIONAL TEST ASSEMBLIES AS REQUIRED FY INSPECTION/APPROVAL AUTHORITIES. ASSEMBLIES TO COMPLY WITH THE REQUIREMENTS OF NFPA PAMPHLET NO. 13, AND THE FIRE PROTECTION AUTHORITY, INCLUDING MATERIALS AND CONFIGURATION. COORDINATE INSTALLATION WITH STRUCTURE AND WORK OF OTHER TRADES. CONCEAL ASSEMBLIES WHEN STRUCTURE IS PROVIDED TO DO SO, AND COORDINATE FOR APPROVED INSTALLATION, INCLUDING IDENTIFICATION ELEMENTS (SIGNAGE, TAG, ETC.) IN NORMALLY VISIBLE LOCATION.
14. FIRE PROTECTION CONTRACTOR TO PROVIDE SPRINKLER COVERAGE AT ALL SHAFTS AS REQUIRED.
15. PROVIDE PRESS. GAUGE WITH ISOLATION BALL VALVE AT TOP OF ALL STANDPIPE RISERS.
16. FIRE PROTECTION CONTRACTOR TO PROVIDE ADDITIONAL SPRINKLER HEADS BELOW DUCTS OR EQUIPMENT IN EXCESS OF 4 FEET WIDE, OR WHERE MULTIPLE DUCTS AND/OR EQUIPMENT INSTALLATIONS OBSTRUCT AN AREA IN EXCESS OF 4 FEET WIDE IN MECHANICAL ROOMS OR OTHER AREAS WITH EXPOSED STRUCTURE.
17. NO FIRE PROTECTION PIPING IS TO BE RUN THRU OR ABOVE ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL UTILITY CLOSETS/ROOMS, ELEVATOR SHAFTS AND/OR MACHINE RM'S., AND TELE./COMM. CLOSETS/RM'S., EXCEPT FOR PIPING SUPPLYING PROTECTION FOR THAT SPECIFIC AREA. SPRINKLERS FOR THESE AREAS ARE TO BE HIGH TEMPERATURE TYPE ON DEAD END BRANCHES. LOCATION OF THESE NEW SPACES TO BE CONFIRMED FROM ARCHITECTURAL DOCUMENTATION PRIOR TO LAYOUT OF F.P. WORK. WHEN PIPING IS PERMITTED WITHIN THESE AREAS, & INSTALLATION AB. ELEC. EQUIP. IS UNAVOIDABLE, A DRIP PAN SHALL BE PROVIDED A MAXIMUM OF 12" BELOW ALL PIPING, EXTENDING TO A POINT 12" BEYOND THE ENTIRE EQUIP. PERIMETER OUTLINE BELOW. WIDTH OF DROP PAN TO BE ADEQUATE TO CONTAIN ANY POTENTIAL LEAKAGE FROM OVERHEAD PIPING AND SPRINKLER HEADS, WITHOUT INTERFERING WITH REQUIRED PROTECTION/COVERAGE. DRIP PANS TO BE FABRICATED FROM MEDIUM GAUGE GALVANIZED SHEET METAL WITH A MIN. 1" HIGH LIP AT ENTIRE PERIMETER, SEALED WATERTIGHT. SLOPE TO 1" DIA. OUTLET(S), WITH FULL SIZE DRAIN PIPING EXTENDED TO APPROVED DRAIN POINT(S) AS SPECIFIED HEREIN. DRIP PANS MAY BE SUPPORTED FROM BUILDING STRUCTURE, OR FROM ASSOCIATED PIPING SUPPORTS, PROVIDED ADEQUATE ABILITY TO DO SO IS CONFIRMED BY THE F.P. CONTRACTOR. SUPPORT FROM WORK PROVIDED BY OTHER TRADES IS NOT PERMITTED. EXACT LAYOUT OF NEW EQUIPMENT/ITEMS AS CONFIRMED WITH THE INSTALLING CONTRACTOR IN ADVANCE OF F.P. INSTALLATION.
18. FIRE PROTECTION PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS, INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE, UNDER ANY CIRCUMSTANCES. NEW ITEM LOCATIONS TO BE VERIFIED FROM ELECTRICAL DRAWINGS, AND INSTALLATION COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF F.P. INSTALLATION.
19. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH.
20. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL FIRE PROTECTION RELATED PENETRATIONS OF FIRE, SMOKE, & ANY OTHER RATED FLOORS, WALLS, PARTITIONS & OTHER STRUCTURES. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
21. WHERE FIRE DEPARTMENT HOSE CONNECTION VALVES ARE INDICATED ON PLANS, WHETHER EXPOSED OR IN CABINET/STRUCTURE, COORDINATE EXACT LOCATION AND ORIENTATION OF VALVE, OUTLET AND OPERATOR HANDLE WITH STRUCTURE AND WORK OF OTHER TRADES TO ALLOW PROPER ACCESS AND OPERATION, AND TO MINIMIZE INTRUSION TO EGRESS ELEMENTS. FINAL INSTALLATION TO BE CONFIRMED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. PLAN INDICATION OF FIRE DEPT. VALVES IS SYMBOLIC ONLY FOR GEN. LOCATION, AND IS NOT INTENDED TO SPECIFY ORIENTATION OF ELEMENTS. NOM. MOUNTING HEIGHT IS 48" FROM TOP OF FLOOR TO CENTERLINE OF VALVE OUTLET.
22. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL PROJECT DOCUMENTATION FOR ITEMS AFFECTING FIRE PROTECTION WORK, INCLUDING SPECIFIC DIRECTIONS AND ITEMS OF A GENERAL NATURE, WHICH MAY NOT BE REFERRED TO BY THE F.P. DOCUMENTATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER REQUIREMENTS TO MAINTAIN RATED SEPARATION STRUCTURES (WALLS, WINDOWS, GLASS PARTITIONS/DOORS, ETC.), OR AT STRUCTURAL FEATURES SUCH AS DRAFTSTOPS, SOFFITS, SKYLIGHTS, PARTIAL HEIGHT PARTITIONS/WALLS, & OTHER ELEMENTS. THE ARCH. DOCUMENTATION MAY ALSO INCLUDE LOCATION/DIMENSION INFORMATION FOR SPECIFIC ITEMS SUCH AS STANDPIPES IN STAIR ENCLOSURES, OR F.P. EQUIPMENT CABINETS IN/AT WALLS OR OTHER STRUCTURES. WHERE THERE IS A DISCREPANCY IN LOCATIONS INDICATED BETWEEN THE TWO SETS OF DOCUMENTATION, THE LOCATION INDICATED BY THE ARCHITECTURAL SHALL TAKE PRECEDENT. ARCHITECTURAL REVIEW SHALL INCLUDE COMPLETE DOCUMENTATION, INCLUDING SPECIFICATIONS AND DRAWING ELEVATIONS.
23. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE FIRE PROTECTION CONTRACT NOT SPECIFICALLY INTENDED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
24. A NEW CURRENT CONDITIONS SITE WATER SERVICE FLOW TEST SHALL BE PERFORMED & THE DOCUMENTED RESULTS USED IN PREPARATION OF THE REQUIRED HYDRAULIC DESIGN CALCULATIONS FOR THE BUILDING FP SYSTEMS. THE FLOW TEST SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIVISION OF WATER AS CONFIRMED BY THE FP CONTRACTOR, INCLUDING WHETHER THE TEST IS TO BE PERFORMED BY THE FP CONTRACTOR, THE DIVISION OF WATER, THE FIRE DEPARTMENT, OR APPROVED OTHERS. ALL COSTS ASSOCIATED WITH THE FLOW TEST SHALL BE INCLUDED IN THE FP CONTRACT.

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP301-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FIRE PROTECTION NOTES, SCHEDULES & DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

FP301

CD PROGRESS SET

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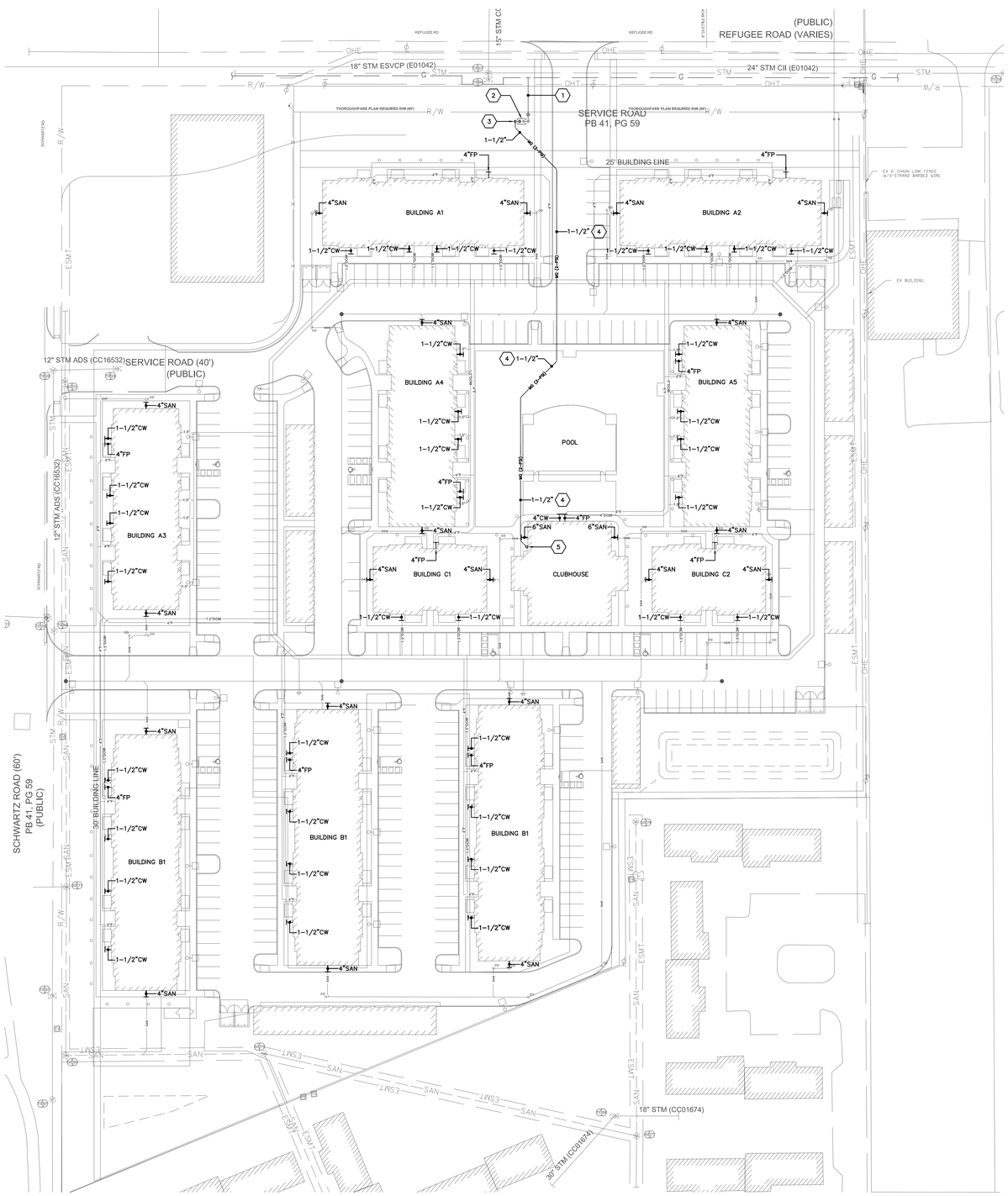

PLUMBING SITE PLAN
SCALE: 1"=40'-0"

GENERAL NOTES

A. COORDINATE ALL SITE WORK WITH NEW AND EXISTING UTILITIES, SITE CONDITIONS AND OTHER TRADES.

SITE UTILITY NOTES

1. ALL PIPING SHOWN ON THIS DRAWING IS BELOW GRADE, UNLESS INDICATED OTHERWISE.
2. REFER TO CIVIL ENGINEERING, ARCHITECTURAL, LANDSCAPING AND OTHER DOCUMENTATION (AS APPLICABLE) INCLUDED WITH PROJECT CONSTRUCTION PACKAGE FOR CONFIRMATION OF ITEMS/CONDITIONS INDICATED, AND ADDITIONAL WORK IN THESE AREAS UNDER SEPARATE CONTRACT THAT IMPACTS/INTERFACES WITH WORK IN THIS CONTRACT. COORDINATE ALL INFORMATION PROVIDED AS REQUIRED FOR PROPER INSTALLATION/OPERATION OF ITEMS/ELEMENTS.
3. NOTE THAT INFORMATION PROVIDED REGARDING EXISTING ITEMS/ELEMENTS IS FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION AVAILABLE FOR THE AREAS INDICATED. ACTUAL CONDITIONS, SIZES, LOCATIONS, ETC, TO BE FIELD VERIFIED BY THIS CONTRACTOR IN ADVANCE OF WORK.
4. INSTALLATION OF UNDERGROUND GAS SERVICE AND APPURTENANCES TO COMPLY WITH THE REQUIREMENTS AND GUIDELINES OF THE GAS COMPANY/AUTHORITY IN RESPECT TO MATERIALS AND METHODS, CONFIRMED IN ADVANCE OF WORK.
5. COORDINATE INSTALLATION OF ALL ITEMS/WORK WITH SITE CONDITIONS (NEW AND EXISTING) AND WORK OF OTHER TRADES, BOTH IN AND AT GRADE. EXISTING SITE CONDITIONS TO BE CONFIRMED IN THE FIELD (WHETHER INDICATED ON PLANS OR NOT).
6. PRIOR TO START OF WORK, THIS CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY INFORMATION SERVICE AT 800-362-2764 TO ARRANGE FOR CONFIRMATION OF EXISTING UNDERGROUND ELEMENTS (WHETHER INDICATED ON PLANS OR NOT).
7. WORK IMPACTING SPECIFIC UTILITIES TO BE COORDINATED/SCHEDULED WITH THE APPROPRIATE AUTHORITIES AND THE OWNER IN ADVANCE, INTERRUPTION OF OR IMPAIRMENT TO SERVICE (IF REQUIRED) TO BE KEPT TO A MINIMUM.
8. UNLESS INDICATED OTHERWISE ON PLAN OR BY THE LOCAL AUTHORITIES (CONFIRMED IN ADVANCE) MAINTAIN MINIMUM COVER FOR UNDERGROUND SERVICES AS FOLLOWS:
   A. GAS SERVICE – 18" MINIMUM
9. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND REPAIR/ REPLACEMENT OF ANY EXISTING FINISH SURFACES AND/OR STRUCTURES AS REQUIRED TO EXECUTE INSTALLATION OF NEW WORK AND ALL ASSOCIATED ELEMENTS. THIS INCLUDES ELEMENTS THAT MAY NOT BE INDICATED ON PLANS WHICH SHALL BE IDENTIFIED BY FIELD VERIFICATION. REPAIR/REPLACEMENT OF SURFACES AND/OR STRUCTURES TO BE TO ORIGINAL CONDITION, AND MATCHING ADJACENT SURFACES AND/OR STRUCTURES IN TYPE, KIND AND FINISH. SPECIFICS FOR SEEDING, RE-SODDING OR PLANTING TO BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE. SURFACE REPAIR/REPLACEMENT IS NOT APPLICABLE IF SUCH WORK IS BEING PROVIDED UNDER SEPARATE CONTRACT AS PART OF THIS PROJECT.
10. PROVIDE PROTECTIVE BOLLARDS AT ALL WALL OR GRADE MOUNTED ELEMENTS IN OR ADJACENT TO AREAS WITH VEHICLE ACCESS, INCLUDING TRACTORS, FORK LIFTS, TOW MOTORS, ETC.), ELEMENTS REQUIRING PROTECTION INCLUDE FIRE DEPARTMENT INLET CONNECTIONS, POST INDICATOR VALVES, HYDRANTS, FREE STANDING HOSE CONNECTIONS, METERS, REGULATORS, TEST HEADERS, GAS METER/REGULATORS ETC. BOLLARDS TO BE PROVIDED ON ALL SIDES (MAX. OF FOUR) WITH VEHICLE ACCESS AT EACH ELEMENT'S INSTALLATION. BOLLARDS TO CONSIST OF A 6" DIAMETER SCHEDULE 40 GALVANIZED STEEL PLAIN END PIPE GROUTED FULL AND SET IN TRUE VERTICAL POSITION. PROVIDE EIGHT FOOT LONG PIPE LENGTH WITH 48" EXPOSED ABOVE GRADE, AND MINIMUM OF FOUR CUBIC FEET CONCRETE BASE FOR STABILIZATION. PROVIDE TWO COATS OF LISTED WEATHERPROOF PAINT APPLIED IN FIELD, COLOR TO MATCH OWNER'S SPECIFICATION.
11. EXCAVATION AND ALL OTHER WORK ASSOCIATED WITH THIS PROJECT TO BE DONE IN SUCH A MANNER AS TO MINIMIZE POTENTIAL FOR DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND OTHER ELEMENTS WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS, WHETHER INDICATED ON DRAWINGS OR NOT. DAMAGE TO ELEMENTS AS A RESULT OF WORK IN THIS CONTRACT SHALL BE REPAIRED TO THE OWNER'S AND/OR UTILITY AUTHORITY'S SATISFACTION, AT THIS CONTRACTORS EXPENSE.
12. ALL SITE GRADES/ELEVATIONS AND EXACT LOCATIONS OF ITEMS/ELEMENTS TO BE IN, AT OR FLUSH WITH FINISHED SURFACE OR SITE STRUCTURES (MANHOLES, CURBS, PITS, SLABS ON GRADE, ETC.) PROVIDED IN THIS CONTRACT, OR UNDER SEPARATE CONTRACT TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, & INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). THIS INCLUDES DRAIN INLETS, ACCESS FRAMES AND COVERS, CURB BOXES, INDICATING POST ASSEMBLIES, ETC. SPECIAL CONSIDERATION IS TO BE GIVEN TO DRAIN INLETS IN SLOPED STRUCTURE/SURFACE TO INSURE PROPER PLACEMENT AND OPERATION.
13. ALL NEW AND/OR EXISTING SITE GRADES/ELEVATIONS RELATIVE TO MINIMUM COVER REQUIREMENTS FOR UNDERGROUND ITEMS/ELEMENTS INSTALLATION TO BE CONFIRMED IN FIELD AND/OR WITH SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED AS REQUIRED.
14. ALL SITE GRADES/ELEVATIONS RELATIVE TO EXTENSION ASSEMBLIES REQUIRED FOR OPERATION OF OR ACCESS TO UNDERGROUND ITEMS/ELEMENTS TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR. THIS INCLUDES OPERATION EXTENSIONS FOR UNDERGROUND VALVES, ACCESS EXTENSIONS FOR EXTERIOR CLEANOUTS OR PIT FRAMES AND COVERS, ETC.

CODED NOTES ⬡

1. NATURAL GAS CUSTOMER SERVICE LINE PROVIDED BY COLUMBIA GAS OF OHIO.
2. PROPOSED LOCATION OF GAS METER/REGULATOR ASSEMBLY. GAS METER/REGULATOR ASSEMBLY SHALL BE PROVIDED BY COLUMBIA GAS OF OHIO. COORDINATE EXACT LOCATION AND INSTALLATION WITH COLUMBIA GAS OF OHIO. MAKE NECESSARY ADJUSTMENTS IF LOCATION CHANGES. PLUMBING CONTRACTOR TO CONNECT TO THE GAS METER/REGULATOR OUTLET AND PROVIDE GAS PIPING TO ALL GAS APPLIANCES. 2-PSI HOUSE DELIVERY PRESSURE AT 434 CFH LOAD CAPACITY.
3. 1-1/2" MEDIUM PRESSURE GAS (2-PSI) FROM METER OUTLET MANIFOLD TO BELOW GRADE. PROVIDE ANODELESS RISER TO TRANSITION FROM STEEL PIPE ABOVE GRADE TO PLASTIC PIPE BELOW GRADE. SEE GAS SERVICE PIPING DIAGRAM ON SHEET P901 FOR ADDITIONAL INFORMATION.
4. APPROXIMATE PROPOSED ROUTING OF UNDERGROUND PLASTIC MEDIUM PRESSURE (2-PSI) GAS PIPING FROM METER TO CLUBHOUSE BUILDING. RUN PIPING IN SCHEDULE 80 PVC CONDUIT. INSTALL PIPING AT A MINIMUM 18" BELOW GRADE. PROVIDE YELLOW INSULATED COPPER TRACER WIRE ADJACENT TO UNDERGROUND PLASTIC PIPE. TRACER WIRE SHALL RUN PARALLEL TO CONDUIT AND EXTEND THROUGHOUT ENTIRE LENGTH OF UNDERGROUND RUN AND SHALL TERMINATE ABOVE GROUND AT EACH END OF THE PLASTIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
5. 1-1/2" MEDIUM PRESSURE GAS (2-PSI) FROM FROM BELOW GRADE TO ABOVE GRADE OUTSIDE OF BUILDING. PROVIDE ANODELESS RISER TO TRANSITION FROM PLASTIC PIPE BELOW GRADE TO STEEL PIPE ABOVE GRADE. SEE CLUBHOUSE PLUMBING PLANS ON SHEET P106-D FOR CONTINUATION. SEE GAS SERVICE PIPING DIAGRAM ON SHEET P402 FOR ADDITIONAL INFORMATION AND WORK AT THIS LOCATION.

2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING SITE PLAN

P100-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P100

CD PROGRESS SET

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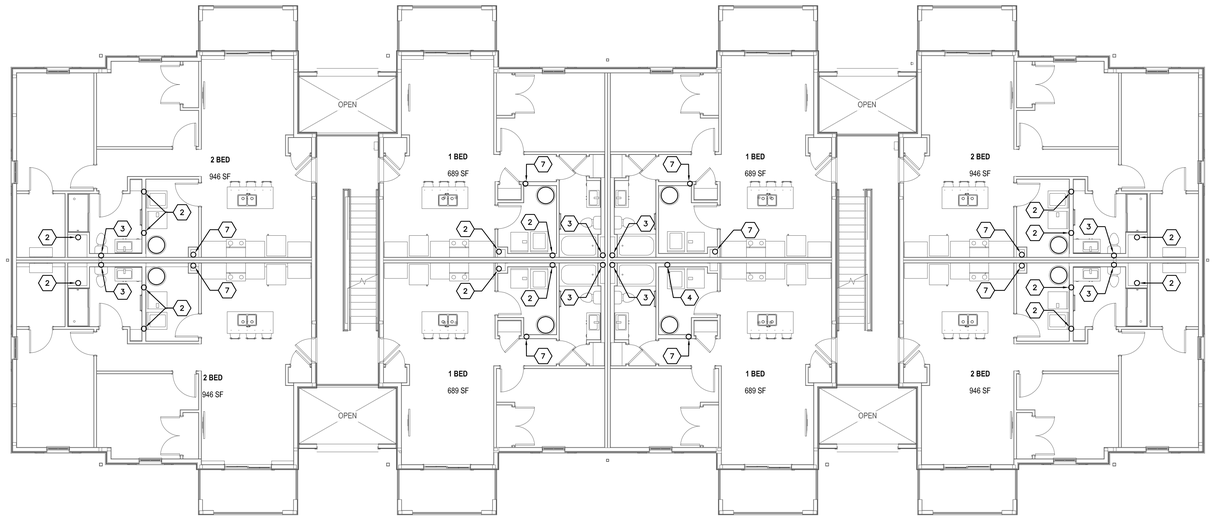
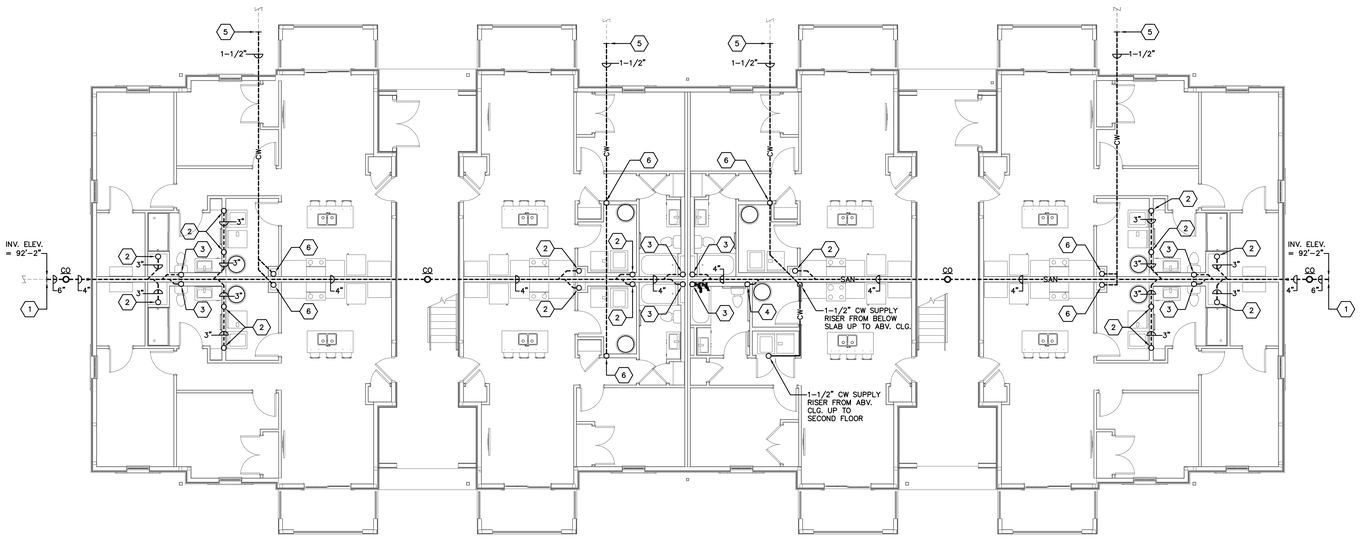


LEVEL 02 PLUMBING PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. 6" SAN TO 5'-0" BEYOND PERIMETER OF BUILDING BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. INVERT ELEVATION: 92'-2" (F.F.E. = 100.0').
2. 3" WASTE STACK VENT SYSTEM.
3. 4" SINGLE STACK VENT SYSTEM.
4. 3" SINGLE STACK VENT SYSTEM.
5. 1-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 1-1/2" DWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET F202 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
6. RISE 1-1/2" DOMESTIC WATER SERVICE FROM BELOW SLAB TO SECOND FLOOR.
7. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02 PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
P101-A
CD PROGRESS SET

P101-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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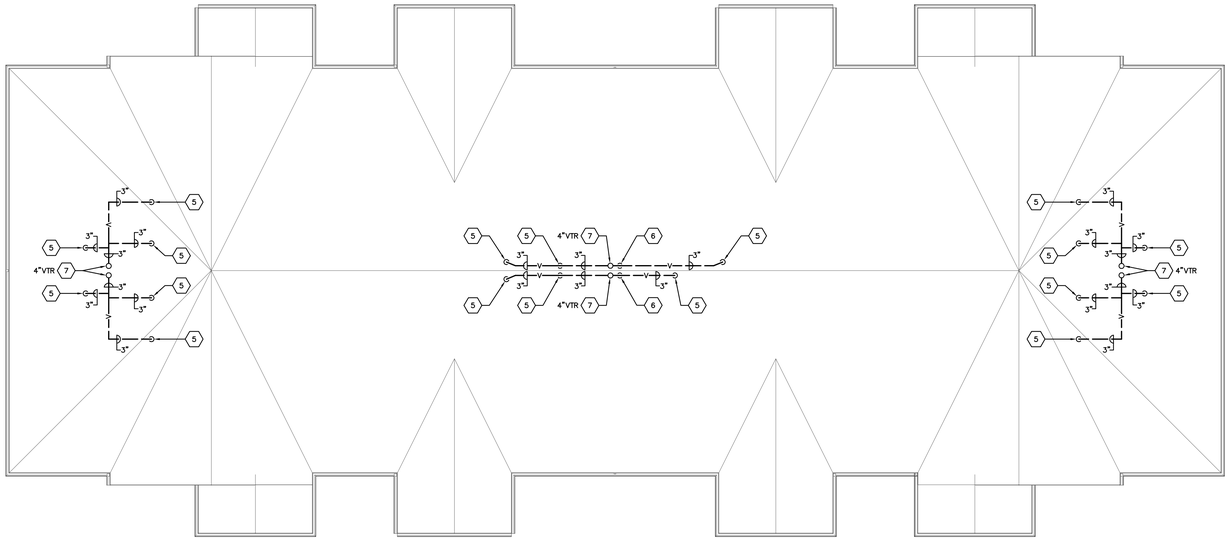
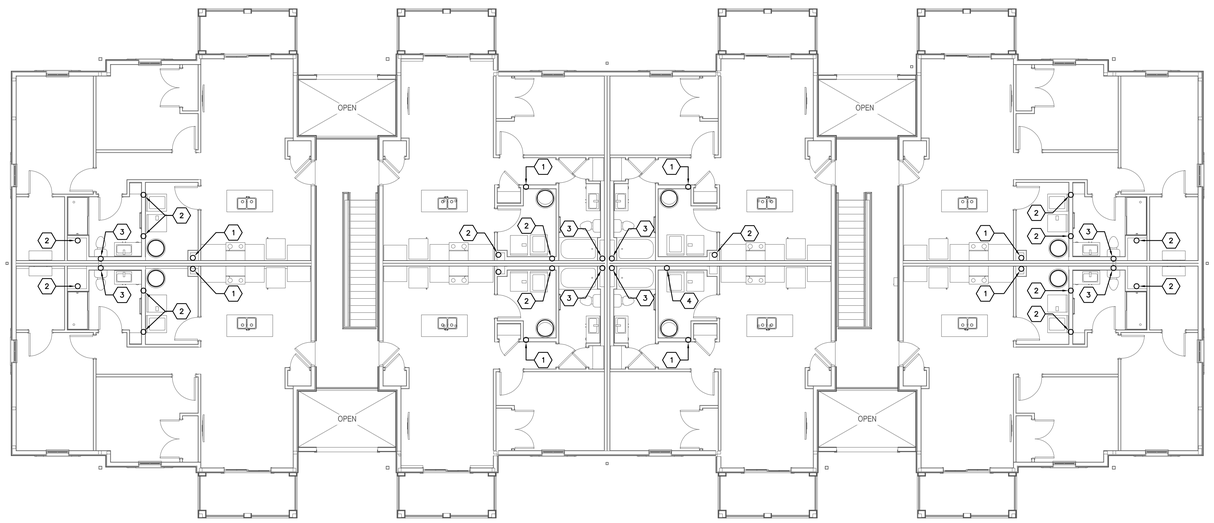


ROOF PLUMBING PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 03 PLUMBING PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR AND CAP WATER TIGHT 6" ABOVE 1" BRANCH TO UNIT. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
2. 3" WASTE STACK VENT SYSTEM DOWN. RISE 3" STACK VENT FULL SIZE TO ATTIC SPACE.
3. 4" SINGLE STACK VENT SYSTEM DOWN. RISE 4" STACK VENT TO ATTIC SPACE.
4. 3" SINGLE STACK VENT SYSTEM DOWN. RISE 3" STACK VENT TO ATTIC SPACE.
5. 3" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
6. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
7. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. RISE TO 4" VENT-THRU-ROOF (VTR).

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03 & ATTIC PLUMBING PLANS

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P102-A

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PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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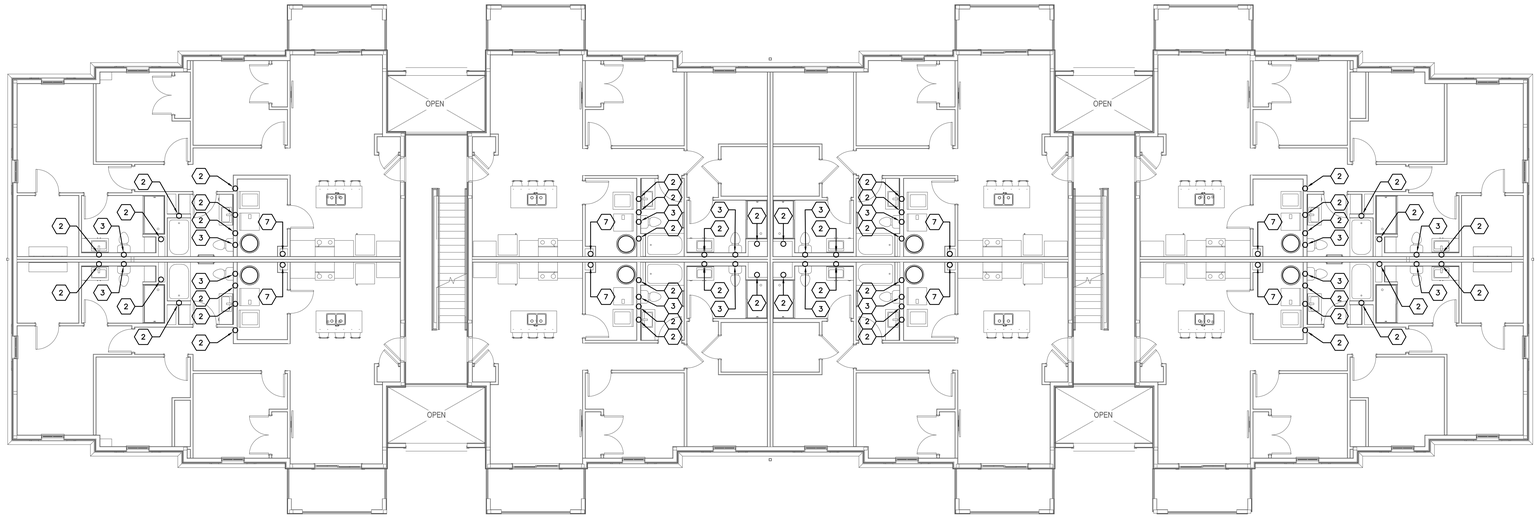
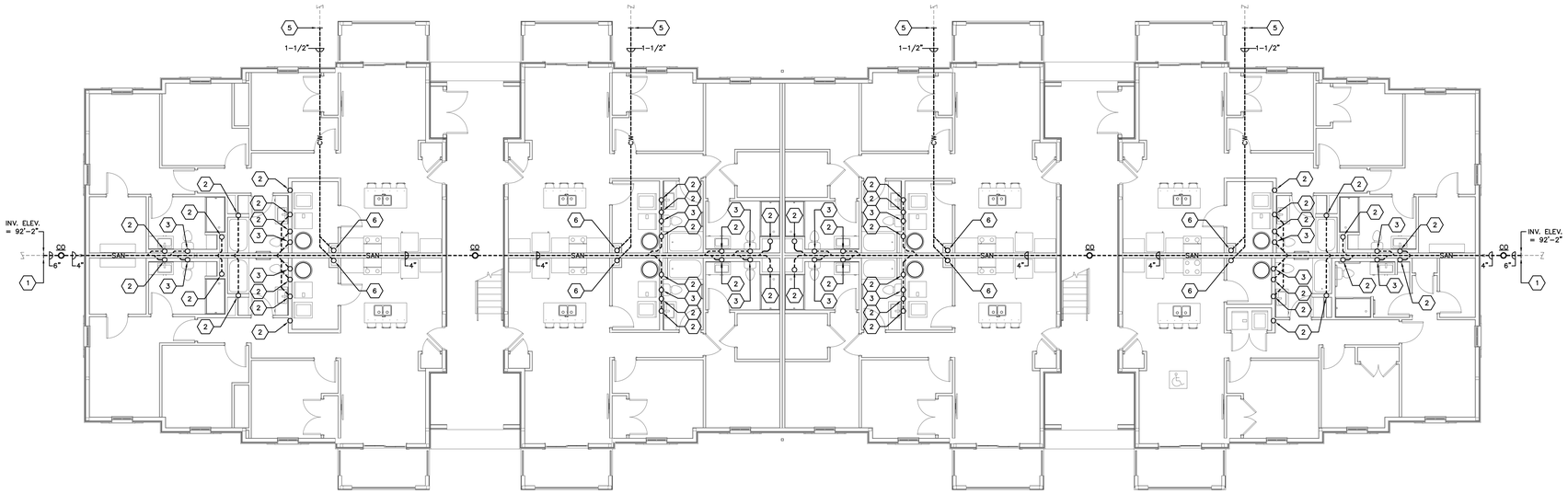


LEVEL 02 PLUMBING PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. 6" SAN TO 5'-0" BEYOND PERIMETER OF BUILDING BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. INVERT ELEVATION: 92'-2" (F.F.E. = 100.0').
2. 3" WASTE STACK VENT SYSTEM.
3. 4" SINGLE STACK VENT SYSTEM.
4. 3" SINGLE STACK VENT SYSTEM.
5. 1-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 1-1/2" DWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET F202 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
6. RISE 1-1/2" DOMESTIC WATER SERVICE FROM BELOW SLAB TO SECOND FLOOR. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
7. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 PLUMBING PLANS

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P103-B

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PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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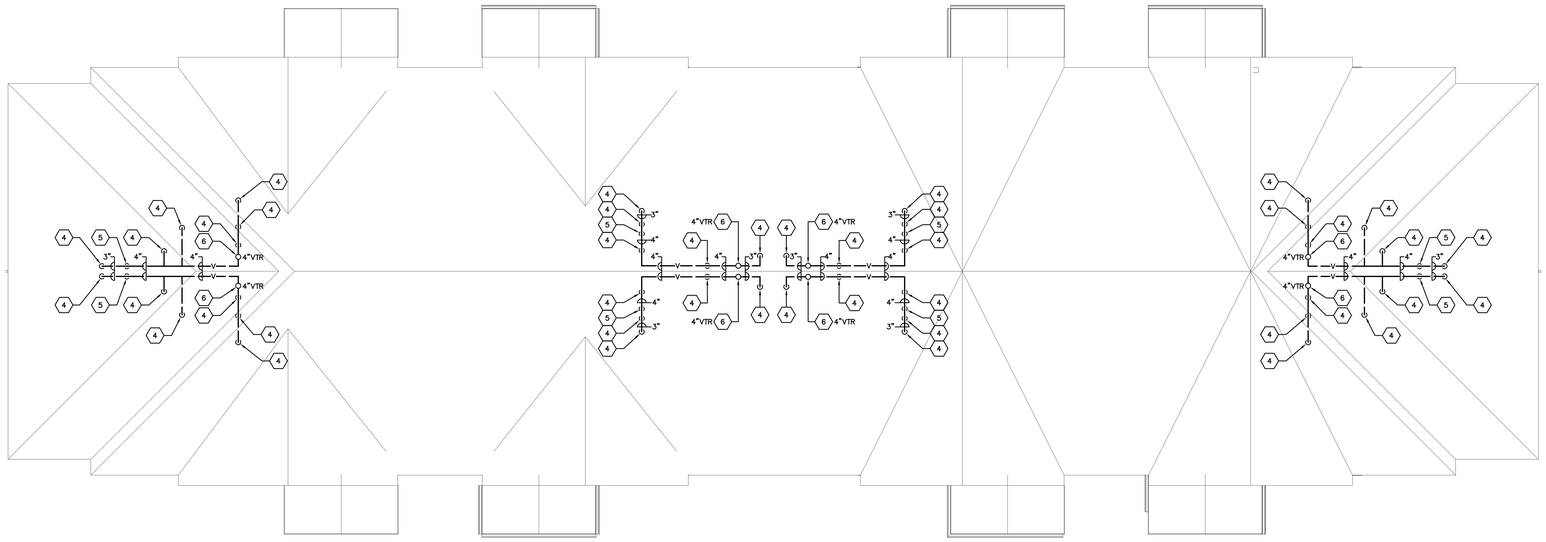
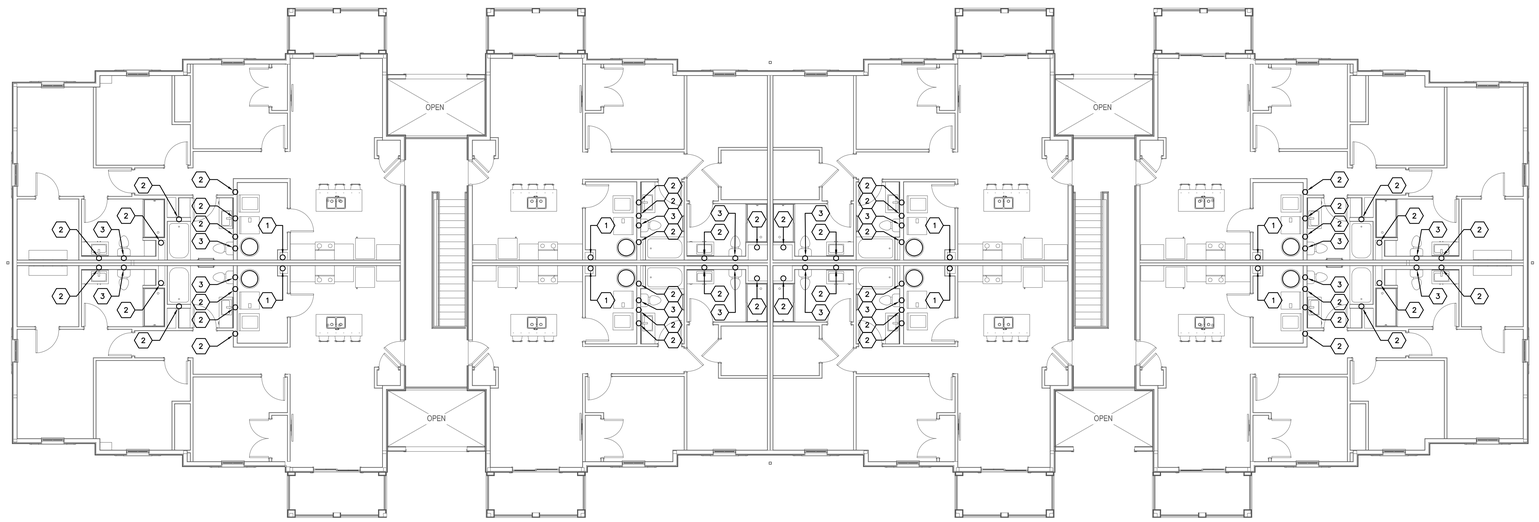


ROOF PLUMBING PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 03 PLUMBING PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR AND CAP WATER TIGHT 6" ABOVE 1" BRANCH TO UNIT. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
2. 3" WASTE STACK VENT SYSTEM DOWN. RISE 3" STACK VENT FULL SIZE TO ATTIC SPACE.
3. 4" SINGLE STACK VENT SYSTEM DOWN. RISE 4" STACK VENT TO ATTIC SPACE.
4. 3" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
5. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
6. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. RISE TO 4" VENT-THRU-ROOF (VTR).

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03 & ROOF PLUMBING PLANS

P104-B-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
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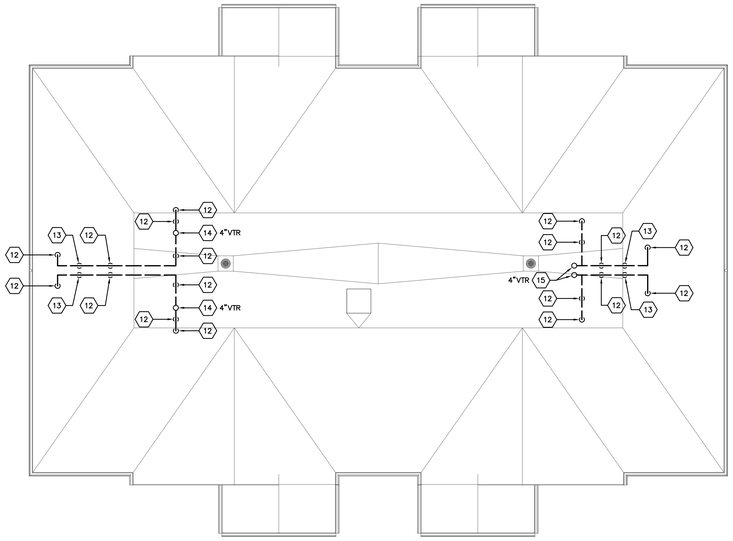
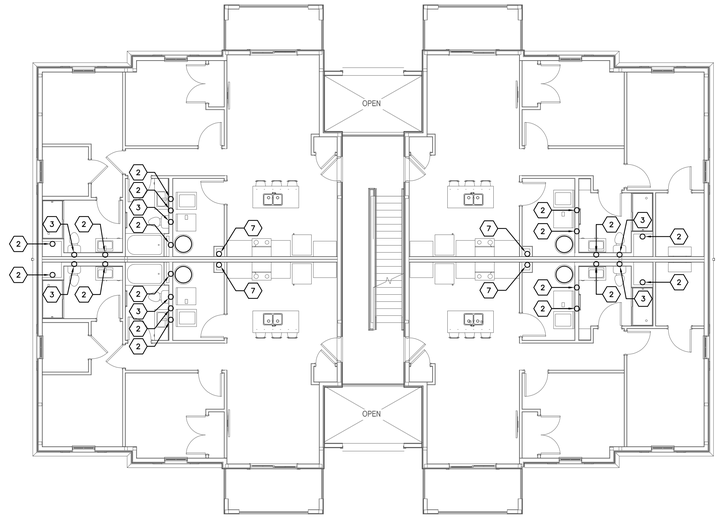
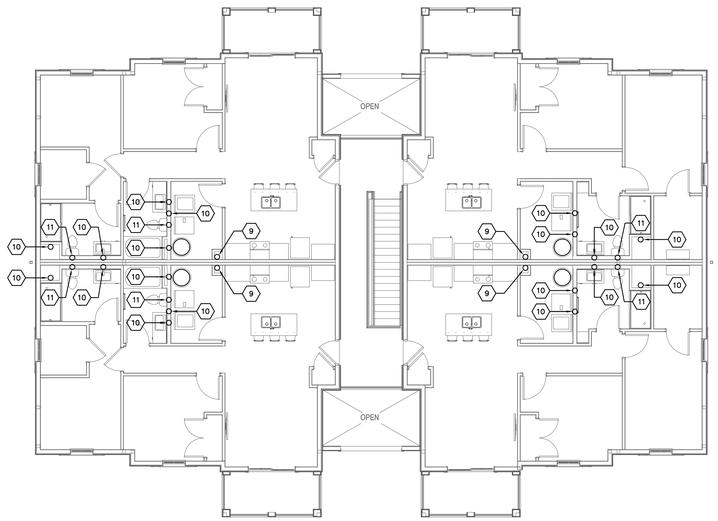


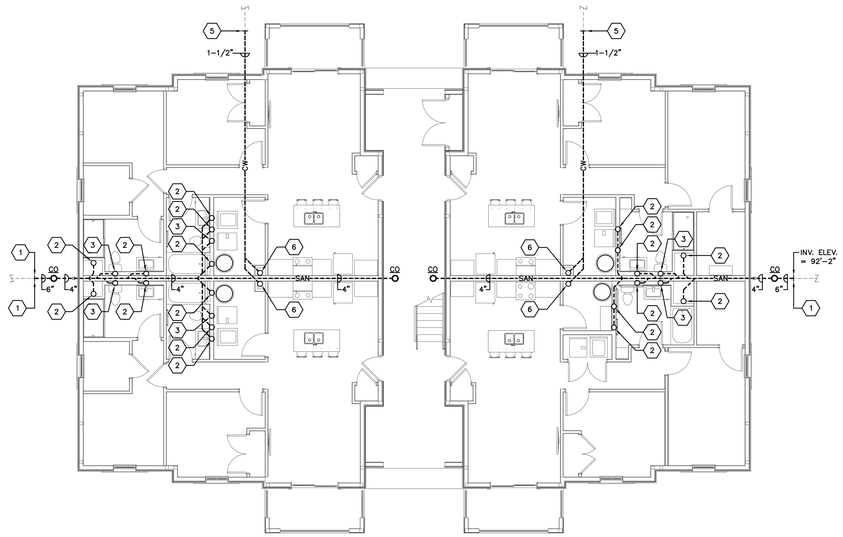
ROOF PLUMBING PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 02 PLUMBING PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 03 PLUMBING PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES ⬡

1. 6" SAN TO 5'-0" BEYOND PERIMETER OF BUILDING BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. INVERT ELEVATION: 92'-2" (F.F.E. = 100.0').
2. 3" WASTE STACK VENT SYSTEM DOWN AND UP.
3. 4" SINGLE STACK VENT SYSTEM DOWN AND UP.
4. 3" SINGLE STACK VENT SYSTEM DOWN AND UP.
5. 1-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 1-1/2" DWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET F202 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
6. RISE 1-1/2" DOMESTIC WATER SERVICE FROM BELOW SLAB TO SECOND FLOOR.
7. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR.
8. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR.
9. RISE 1-1/2" DOMESTIC WATER SERVICE FROM SECOND FLOOR TO THIRD FLOOR AND CAP WATER TIGHT 6" ABOVE 1" BRANCH TO UNIT. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
10. 3" WASTE STACK VENT SYSTEM DOWN. RISE 3" STACK VENT TO ATTIC SPACE.
11. 4" SINGLE STACK VENT SYSTEM DOWN. RISE 4" STACK VENT TO ATTIC SPACE.
12. 3" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
13. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. CONNECT TO BUILDING VENT SYSTEM.
14. 4" STACK VENT IN ATTIC FROM THIRD FLOOR. RISE TO 4" VENT-THRU-ROOF (VTR).
15. RISE 4" STACK VENT TO 4" VENT-THRU-ROOF (VTR).

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C
PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P105-C

CD PROGRESS SET

P105-C-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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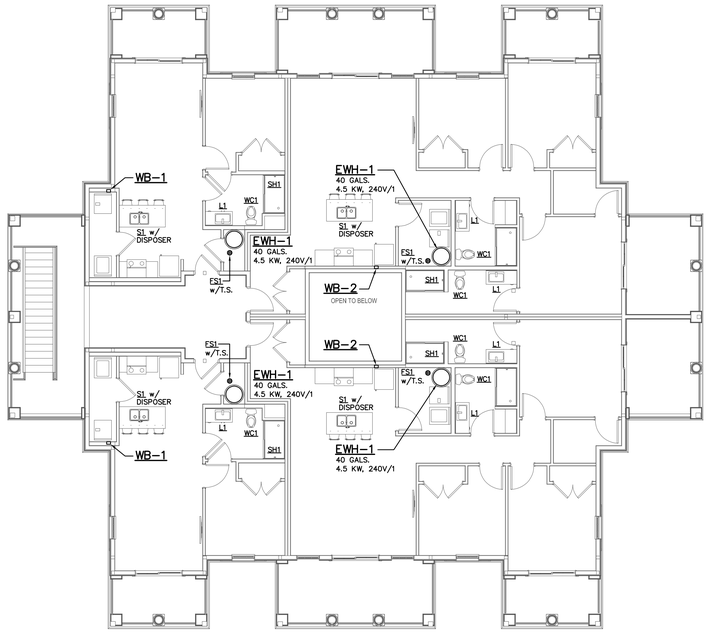
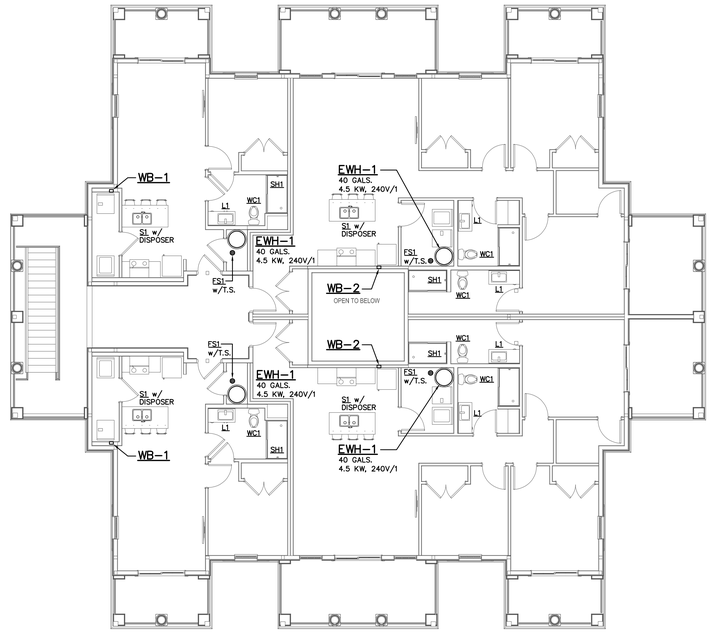
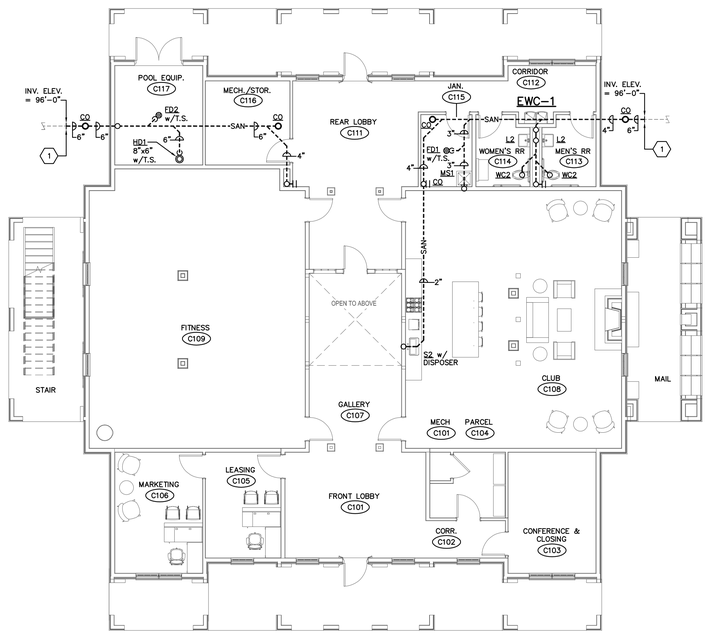


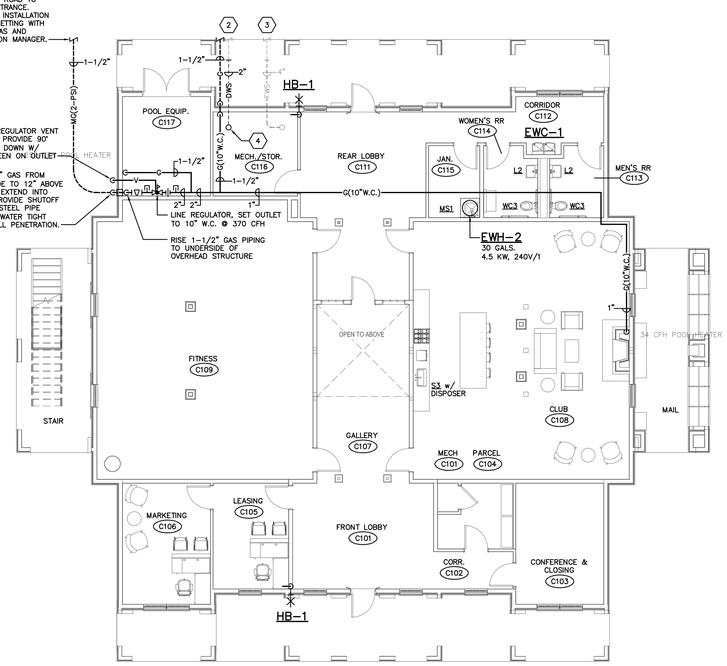
LEVEL 02 PLUMBING SANITARY PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 02 PLUMBING SUPPLY PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING SANITARY PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING SUPPLY PLAN – BUILDING D
SCALE: 1/8"=1'-0"

CODED NOTES ⬡

1. 6" SAN TO 5'-0" BEYOND PERIMETER OF BUILDING BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. INVERT ELEVATION: 96'-0" (F.F.E. = 100.0').
2. 2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 2" DWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET P202 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
3. 4" FIRE WATER SERVICE (FWS). SEE FIRE PROTECTION DRAWINGS.
4. 2" DOMESTIC WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY PLUMBING CONTRACTOR. SEE ENLARGED PLAN ON SHEET P202 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
P106-D
CD PROGRESS SET

P106-D-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
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FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

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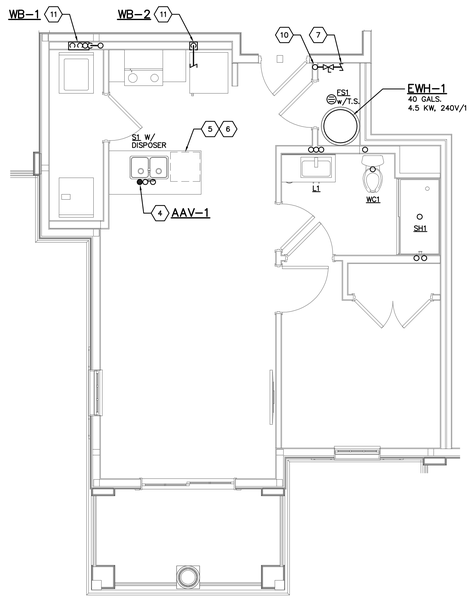
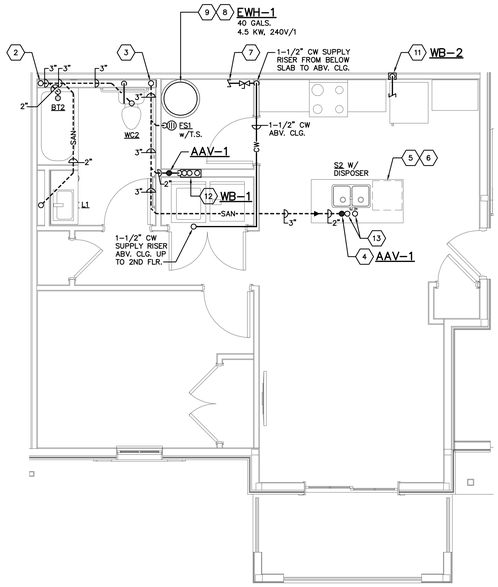
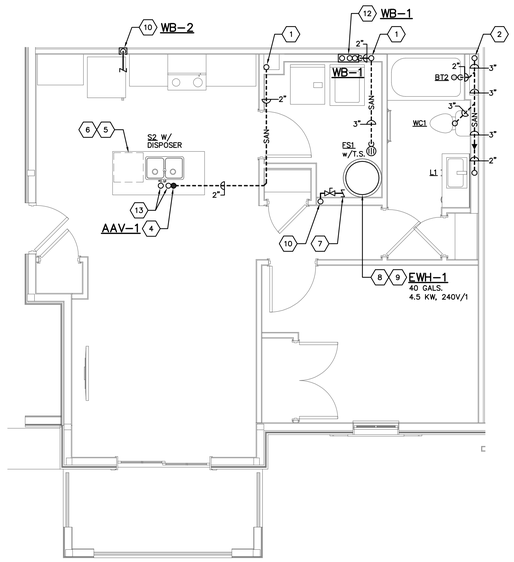


1 BEDROOM CLUBHOUSE
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE A
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE B
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. 3" WASTE STACK VENT SYSTEM.
2. 4" SINGLE STACK VENT SYSTEM.
3. 3" SINGLE STACK VENT SYSTEM.
4. PROVIDE AIR ADMITTANCE VALVE IN PARTIAL HEIGHT WALL AS HIGH AS POSSIBLE BELOW COUNTERTOP. PROVIDE COMPLETE WITH WALL BOX AND LOUVERED GRILLE FACEPLATE.
5. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. EXTEND 1" FLEXIBLE DISCHARGE TUBING FURNISHED WITH DISHWASHER THROUGH MILLWORK TO DRAIN CONNECTION ON WASTE DISPOSER. INSTALL PER DISHWASHER MANUFACTURE'S INSTRUCTIONS AND IN ACCORDANCE WITH OPC 409.4. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
6. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. PROVIDE 3/8" HW SUPPLY INCLUDING CONNECTION TO THE DISHWASHER. THE HOT WATER SUPPLY SHALL BE FED FROM ADJACENT SINK HOT WATER ROUGH-IN. PROVIDE DUAL OUTLET DUAL SHUTOFF STOP VALVE WITH 3/8" COMPRESSION OUTLETS. EXTEND 3/8" BRAIDED STAINLESS STEEL TUBING FURNISHED WITH DISHWASHER THRU MILLWORK AND MAKE FINAL CONNECTION TO DISHWASHER IN ACCORDANCE WITH OPC 409.2. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
7. PROVIDE 1" DOMESTIC WATER SERVICE FOR DWELLING UNIT WITH FULL PORT BALL SHUTOFF VALVE AND SPACER BAR FOR 3/4" TENANT WATER METER. SEE "EWH-1: DWELLING UNIT DOMESTIC CW, HW, AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
8. 3/4" CW, 3/4" HW TO AND FROM ELECTRIC WATER HEATER. SEE "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
9. ELECTRIC WATER HEATER, LOW-BOY TANK STORAGE TYPE ON FLOOR IN DRAIN PAN. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P300 AND "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
10. 1-1/2" CW SUPPLY RISER UP AND DOWN.
11. REFRIGERATOR FURNISHED BY OTHERS. PLUMBING CONTRACTOR SHALL DROP 1/2" CW IN WALL STRUCTURE TO REFRIGERATOR WALL OUTLET BOX (WB-2). PROVIDE 7'-0" OF 1/4" FOOD GRADE PLASTIC TUBING COILED ON WALL BEHIND REFRIGERATOR AND MAKE CONNECTIONS TO REFRIGERATOR SUPPLY VALVE. PROVIDE QUARTER-TURN BALL SHUTOFF VALVE AND ASSE 1024 LISTED AND APPROVED DUAL CHECK BACKFLOW PREVENTER AT SUPPLY CONNECTION. BACKFLOW PREVENTER SHALL BE EQUIVALENT TO ZURN WILKINS MODEL 14UFX4F-700XL-CH W/CHROME FINISH. COORDINATE INSTALLATION WITH THE REFRIGERATOR INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
12. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAUNDRY WALL BOX (WB-1).
13. RISE 1/2" HW AND 1/2" CW FROM BELOW FLOOR TO SINK.
14. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAVATORY SINK.
15. DROP 1/2" CW FROM ABOVE CEILING TO WATER CLOSET.
16. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO SHOWER.
17. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO BATH TUB.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P200

CD PROGRESS SET

P200-24217.DWG

PRATER
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
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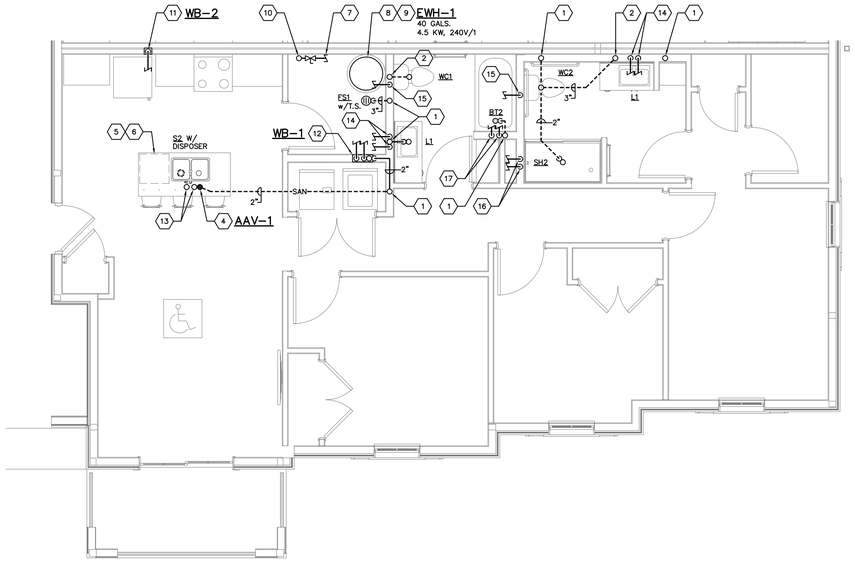
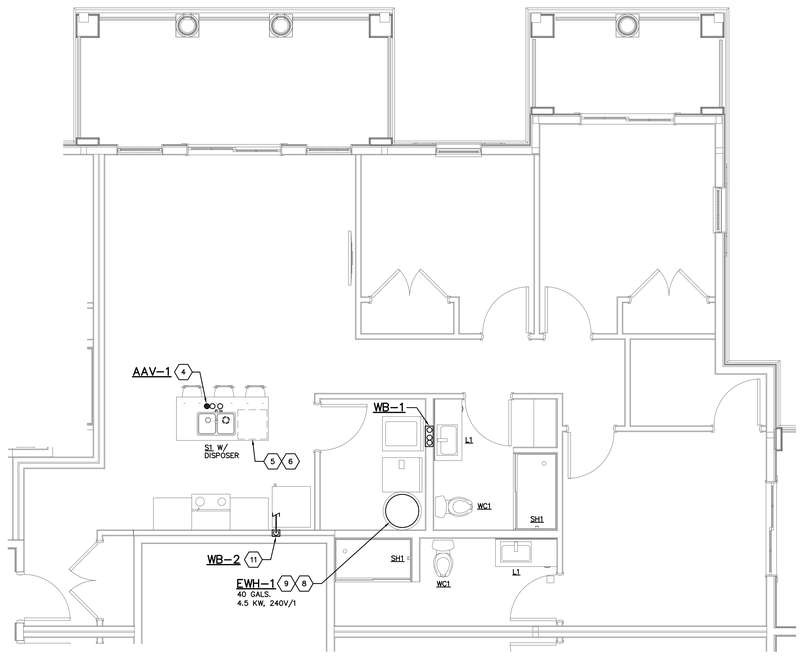


3 BEDROOM – BUILDING B
PLUMBING PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM – CLUBHOUSE
PLUMBING PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. 3" WASTE STACK VENT SYSTEM.
2. 4" SINGLE STACK VENT SYSTEM.
3. 3" SINGLE STACK VENT SYSTEM.
4. PROVIDE AIR ADMITTANCE VALVE IN PARTIAL HEIGHT WALL AS HIGH AS POSSIBLE BELOW COUNTERTOP. PROVIDE COMPLETE WITH WALL BOX AND LOUVERED GRILLE FACEPLATE.
5. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. EXTEND 1" FLEXIBLE DISCHARGE TUBING FURNISHED WITH DISHWASHER THROUGH MILLWORK TO DRAIN CONNECTION ON WASTE DISPOSER. INSTALL PER DISHWASHER MANUFACTURE'S INSTRUCTIONS AND IN ACCORDANCE WITH OPC 409.4. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
6. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. PROVIDE 3/8" HW SUPPLY INCLUDING CONNECTION TO THE DISHWASHER. THE HOT WATER SUPPLY SHALL BE FED FROM ADJACENT SINK HOT WATER ROUGH-IN. PROVIDE DUAL OUTLET DUAL SHUTOFF STOP VALVE WITH 3/8" COMPRESSION OUTLETS. EXTEND 3/8" BRAIDED STAINLESS STEEL TUBING FURNISHED WITH DISHWASHER THRU MILLWORK AND MAKE FINAL CONNECTION TO DISHWASHER IN ACCORDANCE WITH OPC 409.2. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
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8. 3/4" CW, 3/4" HW TO AND FROM ELECTRIC WATER HEATER. SEE "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
9. ELECTRIC WATER HEATER, LOW-BOY TANK STORAGE TYPE ON FLOOR IN DRAIN PAN. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P300 AND "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
10. 1-1/2" CW SUPPLY RISER UP AND DOWN.
11. REFRIGERATOR FURNISHED BY OTHERS. PLUMBING CONTRACTOR SHALL DROP 1/2" CW IN WALL STRUCTURE TO REFRIGERATOR WALL OUTLET BOX (WB-2). PROVIDE 7'-0" OF 1/4" FOOD GRADE PLASTIC TUBING COILED ON WALL BEHIND REFRIGERATOR AND MAKE CONNECTIONS TO REFRIGERATOR SUPPLY VALVE. PROVIDE QUARTER-TURN BALL SHUTOFF VALVE AND ASSE 1024 LISTED AND APPROVED DUAL CHECK BACKFLOW PREVENTER AT SUPPLY CONNECTION. BACKFLOW PREVENTER SHALL BE EQUIVALENT TO ZURN WILKINS MODEL 14UFX4F-7COXL-CH W/CHROME FINISH. COORDINATE INSTALLATION WITH THE REFRIGERATOR INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
12. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAUNDRY WALL BOX (WB-1).
13. RISE 1/2" HW AND 1/2" CW FROM BELOW FLOOR TO SINK.
14. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAVATORY SINK.
15. DROP 1/2" CW FROM ABOVE CEILING TO WATER CLOSET.
16. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO SHOWER.
17. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO BATH TUB.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. CONNECTION. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLUMBING PLANS

P201-24217.DWG

PRATER
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FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

PROGRESS DRAWING
NOT FOR CONSTRUCTION

05/01/2025

23446

P-201

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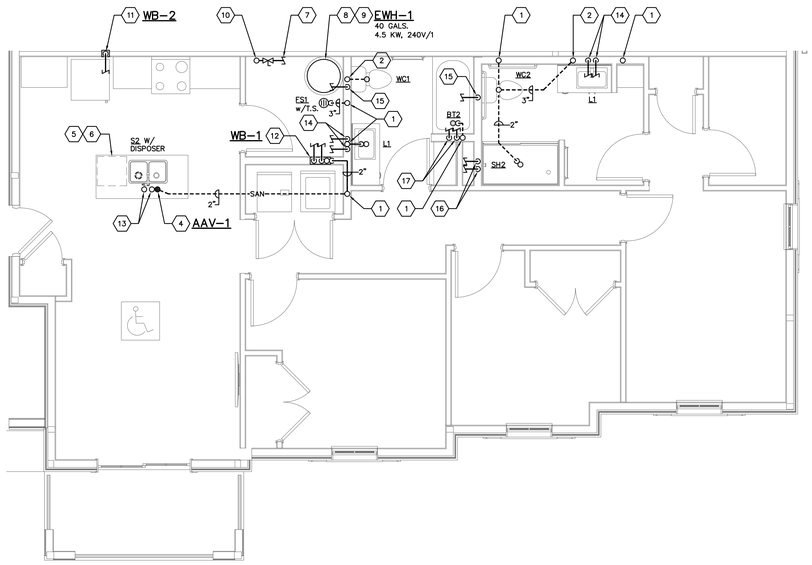
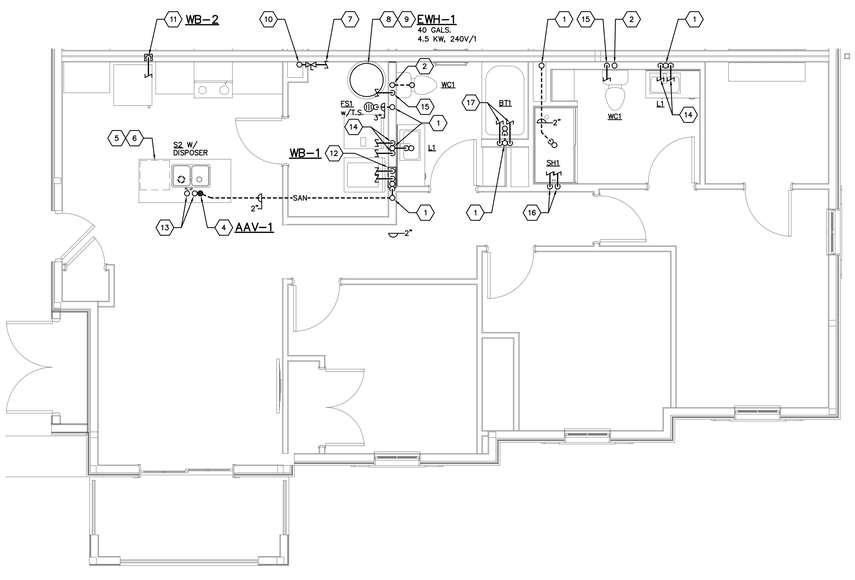
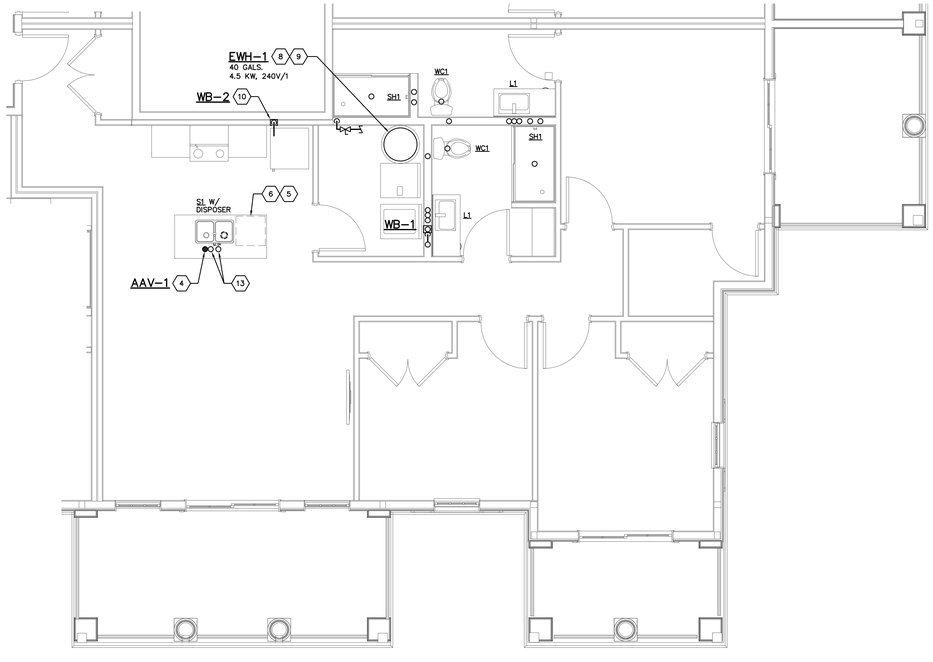


3 BEDROOM ANSI TYPE A
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM CLUBHOUSE
PLUMBING PLAN
SCALE: 1/4"=1'-0"

P202-24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

CODED NOTES

1. 3" WASTE STACK VENT SYSTEM.
2. 4" SINGLE STACK VENT SYSTEM.
3. 3" SINGLE STACK VENT SYSTEM.
4. PROVIDE AIR ADMITTANCE VALVE IN PARTIAL HEIGHT WALL AS HIGH AS POSSIBLE BELOW COUNTERTOP. PROVIDE COMPLETE WITH WALL BOX AND LOUVERED GRILLE FACEPLATE.
5. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. EXTEND 1" FLEXIBLE DISCHARGE TUBING FURNISHED WITH DISHWASHER THROUGH MILLWORK TO DRAIN CONNECTION ON WASTE DISPOSER. INSTALL PER DISHWASHER MANUFACTURE'S INSTRUCTIONS AND IN ACCORDANCE WITH OPC 409.4. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
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7. PROVIDE 1" DOMESTIC WATER SERVICE FOR DWELLING UNIT WITH FULL PORT BALL SHUTOFF VALVE AND SPACER BAR FOR 3/4" TENANT WATER METER. SEE "EWH-1: DWELLING UNIT DOMESTIC CW, HW, AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
8. 3/4" CW, 3/4" HW TO AND FROM ELECTRIC WATER HEATER. SEE "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
9. ELECTRIC WATER HEATER, LOW-BOY TANK STORAGE TYPE ON FLOOR IN DRAIN PAN. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P300 AND "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
10. 1-1/2" CW SUPPLY RISER UP AND DOWN.
11. REFRIGERATOR FURNISHED BY OTHERS. PLUMBING CONTRACTOR SHALL DROP 1/2" CW IN WALL STRUCTURE TO REFRIGERATOR WALL OUTLET BOX (WB-2). PROVIDE 7'-0" OF 1/4" FOOD GRADE PLASTIC TUBING COILED ON WALL BEHIND REFRIGERATOR AND MAKE CONNECTIONS TO REFRIGERATOR SUPPLY VALVE. PROVIDE QUARTER-TURN BALL SHUTOFF VALVE AND ASSE 1024 LISTED AND APPROVED DUAL CHECK BACKFLOW PREVENTER AT SUPPLY CONNECTION. BACKFLOW PREVENTER SHALL BE EQUIVALENT TO ZURN WILKINS MODEL 14UFX4F-700XL-CH W/CHROME FINISH. COORDINATE INSTALLATION WITH THE REFRIGERATOR INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
12. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAUNDRY WALL BOX (WB-1).
13. RISE 1/2" HW AND 1/2" CW FROM BELOW FLOOR TO SINK.
14. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO LAVATORY SINK.
15. DROP 1/2" CW FROM ABOVE CEILING TO WATER CLOSET.
16. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO SHOWER.
17. DROP 1/2" HW AND 1/2" CW FROM ABOVE CEILING TO BATH TUB.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
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300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

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23446

P202

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PLUMBING EQUIPMENT SCHEDULE

EWH–1; ELECTRIC WATER HEATER (BUILDING A, B, C, & D – UNITS)

EQUIVALENT STATE MODEL EN6–40–DOLS; COMMERCIAL GRADE RESIDENTIAL ELECTRIC WATER HEATER SHALL BE A LOW–BOY TYPE UNIT WITH TOP INLET/OUTLET CONNECTIONS AND BE OF A GLASS–LINED DESIGN, AND ELECTRICALLY HEATED, AND APPROVED BY THE UNDERWRITERS LABORATORY (UL–174). THE HEATER SHALL MEET ALL APPLICABLE ENERGY CODES, WITH TWO (2) 4.5 KW, 240 VOLT, 1 PHASE INTERLOCKED NON–SIMULTANEOUS OPERATION HEATING ELEMENTS AND A RECOVERY CAPACITY OF 21.0 GALLONS PER HOUR AT A TEMPERATURE RISE OF 90 DEGREES F., STORAGE CAPACITY OF 38 GALLONS, 50 GALLS. FIRST HOUR RATING. HEATER TO BE EQUIPPED WITH MAGNESIUM ANODE ROD. ALL INTERNAL SURFACES OF THE HEATER EXPOSED TO WATER SHALL BE PERMAGLAS LINED. UNIT SHALL BE FURNISHED FACTORY INSTALLED ASME RATED TEMPERATURE & PRESSURE RELIEF VALVE, LOW RESTRICTIVE BRASS DRAIN VALVE, HYDROJET SEDIMENT REDUCING DEVICE, AND HEAT TRAPS. HEATING ELEMENTS SHALL BE CONTROLLED BY AN INTEGRAL MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT–OFF SWITCH. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH WITH HINGED FRONT ACCESS PANEL OVER FOAM INSULATION OVER ELECTRICAL JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK. PROVIDE WITH A MINIMUM 1–1/2" DEEP DRAIN PAN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO "EWH–1; ELECTRIC WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK.

EWH–2; ELECTRIC WATER HEATER (BUILDING D – CLUBHOUSE)

EQUIVALENT STATE MODEL EN6–30–DOLS; COMMERCIAL GRADE RESIDENTIAL ELECTRIC WATER HEATER SHALL BE A LOW–BOY TYPE UNIT WITH TOP INLET/OUTLET CONNECTIONS AND BE OF A GLASS–LINED DESIGN, AND ELECTRICALLY HEATED, AND APPROVED BY THE UNDERWRITERS LABORATORY (UL–174). THE HEATER SHALL MEET ALL APPLICABLE ENERGY CODES, WITH TWO (2) 4.5 KW, 240 VOLT, 1 PHASE INTERLOCKED NON–SIMULTANEOUS OPERATION HEATING ELEMENTS AND A RECOVERY CAPACITY OF 21.0 GALLONS PER HOUR AT A TEMPERATURE RISE OF 90 DEGREES F., STORAGE CAPACITY OF 28 GALLONS, 44 GALLS. FIRST HOUR RATING. HEATER TO BE EQUIPPED WITH MAGNESIUM ANODE ROD. ALL INTERNAL SURFACES OF THE HEATER EXPOSED TO WATER SHALL BE PERMAGLAS LINED. UNIT SHALL BE FURNISHED FACTORY INSTALLED ASME RATED TEMPERATURE & PRESSURE RELIEF VALVE, LOW RESTRICTIVE BRASS DRAIN VALVE, HYDROJET SEDIMENT REDUCING DEVICE, AND HEAT TRAPS. HEATING ELEMENTS SHALL BE CONTROLLED BY AN INTEGRAL MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT–OFF SWITCH. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH WITH HINGED FRONT ACCESS PANEL OVER FOAM INSULATION OVER ELECTRICAL JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO "EWH–2; ELECTRIC WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK.

RCP–1; HOT WATER RETURN RECIRCULATING PUMP

EQUIVALENT TO GRUNDFOS ALPHA HWR 15–29SF/T; STAINLESS STEEL CONSTRUCTION, LISTED FOR POTABLE WATER SERVICE AND 150 PSIG WORKING PRESSURE, 3.6 GPM AT 3.7 FEET OF HEAD, 115 VOLTS, 21 WATTS MAX, SINGLE PHASE, 0.41 AMPS MAX, 2–BOLT FLANGE CONNECTIONS, LINE CORD, AND DIGITAL TIMER. MOUNT ON WALL NEAR WATER HEATER IN ACCESSIBLE LOCATION. SEE EWH–2; ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401.

BV–1; HOT WATER RETURN BALANCING VALVE

CALEFFI 'QUICKSETTER+' MODEL #132 SERIES BALANCING VALVE WITH INTEGRAL FLOW METER. BALANCING VALVE MUST BE DESIGNED WITH A BRASS BODY, BALL CONTROL STEM, FLOW METER BODY, HEADWORK, AND SHUTOFF CONTROL STEM, CHROME–PLATED; EPDM SEALS AND PRE–FORMED SHELL INSULATION IN EXPANDED CLOSED CELL PE–X. THE BALANCING VALVE MUST INCLUDE NPT FEMALE THREADED CONNECTIONS FOR 3/4" SIZE. EACH VALVE HAS 150 PSI (10 BAR) MAXIMUM WORKING PRESSURE AND 14°F – 230°F (–10 –110°C) WORKING TEMPERATURE RANGE, AND ± 10% MEASUREMENT ACCURACY. SET VALVE TO 3.6 GPM MINIMUM OR AS NOTED ON PLANS. PROVIDE WITH SEPARATE LEAD FREE CHECK VALVE. SEE EWH–2; ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401.

TXT–1; THERMAL EXPANSION TANK

EQUIVALENT TO AMTROL MODEL ST–5C; TANKS TO BE ASME LISTED/APPROVED WITH STEEL SHELL, RIGID POLYPROPYLENE LINER AND HEAVY DUTY BUTYL NSF/ANSI 61 DIAPHRAGM. LINER AND DIAPHRAGM MECHANICALLY BONDED TO SHELL TO FORM A SEPARATE AIR CHAMBER AND NON–CORROSIVE WATER RESERVOIR, PROVIDED WITH A STANDARD AIR VALVE FITTING. 2.0 GAL. TANK VOLUME, 0.9 GALLONS ACCEPTANCE VOLUME, 200°F MAXIMUM OPERATING TEMPERATURE 150 PSIG MAXIMUM WORKING PRESSURE. AIR CHAMBER PRE–CHARGED AT 10–12 PSIG PRIOR TO DELIVERY, CONTRACTOR SHALL FIELD ADJUST THE MANUFACTURER'S PRE–CHARGE AIR PRESSURE TO THE ACTUAL SYSTEM WORKING PRESSURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. REFER TO WATER HEATER PIPING DIAGRAMS ON SHEET P401 FOR LOCATION AND ADDITIONAL INFORMATION.

T.S.; TRAP SEAL PROTECTION DEVICE (PRIVATE DWELLING UNITS)

EQUIVALENT TO SURE–SEAL MANUFACTURING BARRIER TYPE FLOOR DRAIN TRAP SEAL PROTECTION DEVICE. THE DEVICE SHALL BE MADE FROM ELASTOMERIC NEOPRENE MATERIAL AND SHALL NOT CREATE AN EFFECTIVE RESTRICTION ON WATER FLOW. THE DEVICE SHALL CONFORM WITH OPC 709.1 AND MEET ASSE 1072 FOR FLOW RATES. THE DEVICE SHALL CONNECT WITHIN A FLOOR DRAIN THAT CONFORMS TO ANSI/ASME A112.63. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS.

HB–1; EXTERIOR HOSE BIBB

EQUIVALENT TO WOODFORD MODEL 67; AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL ASSE 1052 APPROVED DOUBLE CHECK BACKFLOW PREVENTER. LOOSE TEE KEY, HARDENED STAINLESS STEEL OPERATING STEM AND ONE–PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. BRONZE SEAT AND SEAT WASHER. 3/4" INLET AND 3/4" HOSE OUTLET CONNECTION. CHROME PLATED FINISH. PROVIDE WITH WOODFORD MODEL SL–65 STEM LOCK. COORDINATE INSTALLATION WITH ARCHITECT AND CONSTRUCTION MANAGER.

HB–2; INTERIOR HOSE BIBB

EQUIVALENT TO WOODFORD MODEL 75; CLOSE COUPLED TRIMLINE EXPOSED TYPE WALL HYDRANT WITH INTEGRAL ASSE 1011 APPROVED ANTI–SIPHON VACUUM BREAKER. LOOSE TEE KEY, HARDENED STAINLESS STEEL OPERATING STEM AND ONE–PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. BRONZE SEAT AND SEAT WASHER. 3/4" INLET AND 3/4" HOSE OUTLET CONNECTION. CHROME PLATED FINISH. COORDINATE INSTALLATION WITH ARCHITECT AND CONSTRUCTION MANAGER.

HB–3; ROOF HOSE BIBB

EQUIVALENT TO WOODFORD SRH–MS; ASSE 1057 LISTED FREEZELESS ROOF HYDRANT W/FIELD TESTABLE ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, DOES NOT REQUIRE A DRAIN LINE, LEVER HANDLE OPERATOR, 3/4" NPT FEMALE INLET CONNECTION, 3/4" HOSE THREAD OUTLET, MOUNTING SYSTEM.

WB–1; WALL OUTLET BOX (LAUNDRY SUPPLY/DRAIN)

EQUIVALENT TO OATEY CENTRO II SERIES PVC DOUBLE HOSE BIBB AND DRAIN BOX COMBINATION WITH WATER HAMMER ARRESTERS, QUARTER–TURN VALVES, 1/2" INLET CONNECTIONS, 3/4" MALE HOSE–THREAD OUTLET CONNECTIONS AND 2" DRAIN INLET. PROVIDE LOCKING/CROSS–BRACING IN WALL STRUCTURE AS REQUIRED TO SECURE INSTALLATION. BLOCKING/CROSS–BRACING MATERIALS TO COMPLY WITH GENERAL CONTRACT SPECIFICATIONS. INSTALLATIONS IN RATED STRUCTURES ARE TO BE PROVIDED WITH A LISTED FIRE–STOP ASSEMBLY AS REQUIRED TO MAINTAIN THE APPROPRIATE STRUCTURAL RATING.

WB–2; WALL OUTLET BOX (REFRIGERATOR)

EQUIVALENT TO SIOUX CHIEF 696 SERIES (696RG SERIES FIRE RATED) ABS REFRIGERATOR OUTLET BOX WITH WATER HAMMER ARRESTER, QUARTER–TURN BRASS BALL VALVE, 1/2" INLET CONNECTION AND 1/4" O.D. COMPRESSION OUTLET CONNECTION, ALL CHROME PLATED. INSTALLATIONS IN RATED STRUCTURES ARE TO BE PROVIDED WITH A LISTED FIRE–STOP ASSEMBLY AS REQUIRED TO MAINTAIN THE APPROPRIATE STRUCTURAL RATING.

AAV–1; AIR ADMITTANCE VALVE

EQUIVALENT TO OATEY MODEL 39016 SURE–VENT PVC ASSE 1051 AIR ADMITTANCE VALVE WITH POSITIVE/NEGATIVE PRESSURE REACTIVE PVC SLIDING DISK, GAS–TIGHT RUBBER DIAPHRAGM, AND 1–1/2" x 2" LISTED/APPROVED SOLVENT WELD ADAPTER. UNIT TO MEET ASTM D2665/D2661.

TMV–1; THERMOSTATIC MIXING VALVE (PUBLIC HAND WASHING SINKS)

EQUIVALENT TO ZURN WILKINS MODEL ZW3870XLT; ASSE 1070 LISTED/APPROVED POINT–OF–USE THERMOSTATIC TEMPERING VALVE, SOLID BRASS CONSTRUCTION WITH CHROME FINISH, ADJUSTABLE TEMPERATURE SETTING AND INTEGRAL CHECK VALVES. SET OUTLET NOT TO EXCEED 109°F. PROVIDE ONE UNIT PER PUBLIC RESTROOM HAND WASHING SINK. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS.

GVB–1; GAS VALVE BOX

BURNABY MANUFACTURING LTD. GR0101–SS–50; RECESSED GAS PLUG ACCESS WALL VALVE BOX WITH FIRE–RATED ABS ROUGH–IN BOX, BRUSHED STAINLESS STEEL DOOR AND FRAME CONSTRUCTION, HINGED DOOR WITH CYLINDER LOCK AND "GAS" LABELED, THERMAL VALVE SHUTS OFF GAS FLOW IN CONDITIONS OF 300°F OR MORE, QUICK DISCONNECT SAFETY SHUTOFF VALVE, INDOOR/OUTDOOR CSA APPROVED. SEAL ALL PIPE PENETRATIONS AND ANY LEAK POINTS WITHIN BOX. INSTALL PER MANUFACTURER'S INSTRUCTIONS. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND OWNER IN ADVANCE OF ANY WORK. 10'–0" X 1/2" FLEXIBLE CONNECTOR HOSE W/QUICK–CONNECT FURNISHED W/GRILL BY GRILL MANUFACTURER.

DRAIN & CLEANOUT SCHEDULE

DES.	LOCATION	DESCRIPTION
FD1	FINISHED FLOOR F.D.	ZURN Z415BZ CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES, BOTTOM CAULK OUTLET WITH TYPE BZ SIZE 6¼" DIAMETER POLISHED NICKEL BRONZE LEVELING STRAINER. FURNISH WITH CLAMPING COLLAR EXCEPT FLOOR DRAINS IN ON–GRADE LOCATIONS.
FD2	MECHANICAL ROOM F.D.	ZURN MODEL NO. ZN–550 CAST IRON FLOOR DRAIN WITH SECONDARY DRAINAGE/ANCHOR FLANGE, WEEPHOLES, GRATE WITH POLISHED NICKEL BRONZE FINISH, 9" DIAMETER ROUND TOP WITH SQUARE OPENINGS AND BOTTOM GASKET CONNECTION OUTLET. PROVIDE WITH SEDIMENT BUCKET. DRAINS IN STRUCTURES ABOVE GRADE TO BE FURNISHED WITH CLAMPING COLLAR.
FS1	INDIRECT WASTE RECEPTOR	SIOUX CHIEF 864 SERIES "LITTLEMAX"; MOLDED IMPACT–MODIFIED PVC ROUND FLOOR SINK RECEPTOR WITH CLAMPING COLLAR, 7–1/4" DIA. TOP, 3–1/8" DEEP SUMP, PVC OPEN–HALF STRAINER, BOTTOM SCH. 40 HUB CONNECTION.
FS2	INDIRECT WASTE RECEPTOR	SIOUX CHIEF 861–6PXWT; MOLDED IMPACT–MODIFIED PVC FLOOR SINK RECEPTOR WITH NO STRAINER, CONCRETE ANCHOR FLANGE, 11–3/16"x11–3/16" SQUARE TOP, 6–3/8" DEEP SUMP, STAINLESS STEEL MESH DEBRIS BASKET, TRAP PRIMER CONNECTION, AND 6" BOTTOM SCH. 40 HUB CONNECTION.
HD1	MECHANICAL/ UTILITY INDIRECT WASTE AREAS	HUB AND SPIGOT WASTE PIPE SECTION IN VERTICAL ORIENTATION, WITH THE "HUB" PORTION COMPLETELY EXPOSED ABOVE THE FLOOR SURFACE. THE INLET/FLOOR RIM SHALL BE A MINIMUM 3" ABOVE THE FINISH FLOOR SURFACE.
CO	WALLS OF FINISHED AREA	USE CLEANOUT TEE AND PROVIDE CLEANOUT AND ACCESS COVER SIMILAR TO ZURN Z–1446 WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND ABS PLASTIC THREADED PLUG. SIZE TO SUIT CLEANOUT.
CO	FLOORS OF FINISHED AREA	PROVIDE FRAME AND ACCESS COVER SIMILAR TO ZURN ZN–1400 WITH GAS TIGHT BRONZE PLUG, ROUND SCREWDOWN ACCESS COVER BOX WITH POLISHED SCORIATED TOP AND ANCHOR LUGS. PROVIDE WITH CARPET MARKER WHERE NECESSITATED.
CO	EXTERIOR	ZURN Z–1400–HD CAST IRON ADJUSTABLE CLEANOUT, COATED CAST IRON INTERNAL PLUG WITH LEAD SEAL AND HEAVY–DUTY LOOSE–SET SCORIATED ROUND CAST IRON TRACTOR COVER SIZE TO SUIT CLEANOUT.
CO	ALL OTHER CLEANOUTS	ZURN ZB–1470 FLUSH WITH FLOOR OR WALL AND HAVE COUNTER–SUNK BRASS HEADS.

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE NOTES:

1. UNLESS INDICATED OTHERWISE, THE ARCHITECT SHALL SELECT THE FIXTURE COLOR/FINISH FROM THE MANUFACTURER'S FULL RANGE OF STANDARD OPTIONS.
2. UNLESS INDICATED OTHERWISE, ALL EXPOSED METALLIC COMPONENTS TO BE FURNISHED WITH POLISHED CHROME FINISH, INCLUDING FAUCETS, TRAPS, STOPS, PIPING, ETC.
3. UNLESS INDICATED OTHERWISE, ALL EXPOSED PIPING SHALL BE FURNISHED WITH POLISHED CHROME FINISH BRASS ESCUTCHEONS AT ALL WALL/CABINET PENETRATIONS AND FIXTURE CONNECTIONS.

FIXTURE	MANUFACTURER	REMARKS	PIPE SIZE	
WC1 (DWELLING)	PROFLO/ BRASSCRAFT/ BEMIS/	FIXTURE: PROFLO MODEL PF5112/1401T; WHITE ELONGATED CHINA TOILET, FLOOR MOUNTED, TANK TYPE, 1.6 GPF, 15" RIM HEIGHT, 2" GLAZED TRAPWAY. PROVIDE FLOOR BOLTS, WAX RING, BOLT COVERS. CHROME METAL SIDE MOUNTED TRIP LEVER. STOP(S); BRASSCRAFT MODEL KTCR19BDLM; 1/2" X 3/8" CLOSET SUPPLY KIT, CHROME PLATED QUARTER–TURN BRASS BALL STOP, BRAIDED STAINLESS STEEL RISER. SEAT; BEMIS MODEL NO. 170, CLOSED FRONT WITH COVER, ELONGATED INJECTION MOLDED SOLID PLASTIC, MOLDED–IN BUMPERS, NON–CORROSIVE NUTS AND BOLTS, WHITE	1/2"	---
WC2 (DWELLING ADA ACCESSIBLE)	PROFLO/ BRASSCRAFT/ BEMIS/	FIXTURE: PROFLO MODEL PF5112/1403T; WHITE ELONGATED CHINA TOILET, FLOOR MOUNTED, TANK TYPE, 1.6 GPF, 17" RIM HEIGHT, 2" GLAZED TRAPWAY. PROVIDE FLOOR BOLTS, WAX RING, BOLT COVERS. CHROME METAL SIDE MOUNTED TRIP LEVER. HANDLE ON WIDE SIDE OF ROOM. STOP(S); BRASSCRAFT MODEL KTCR19BDLM; 1/2" X 3/8" CLOSET SUPPLY KIT, CHROME PLATED QUARTER–TURN BRASS BALL STOP, BRAIDED STAINLESS STEEL RISER. SEAT; BEMIS MODEL NO. 170, CLOSED FRONT WITH COVER, ELONGATED INJECTION MOLDED SOLID PLASTIC, MOLDED–IN BUMPERS, NON–CORROSIVE NUTS AND BOLTS, WHITE FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS	1"	---
WC3 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ McGUIRE/ BEMIS/	FIXTURE; KOHLER HIGHCLIFF ULTRA K–96058–SS–0; FLOOR MOUNT FLUSHOMETER TOILET, ELONGATED BOWL, 1.6 GPF, 16–5/8" RIM HEIGHT, 1–1/2" TOP SPUD, VITREOUS CHINA, 2–1/8" GLAZED TRAPWAY, ANTIMICROBIAL FINISH. CONTROLS; SLOAN REGAL 111–1.6–XL; EXPOSED WATER CLOSET FLUSHOMETER, 1.6 GPF, 1" SCREWDRIVER BAK–CHECK STOP, VANDAL RESISTANT STOP CAP. SEAT; BEMIS 1655SSCT; COMMERCIAL EXTRA HEAVY–DUTY WHITE PLASTIC TOILET SEAT W/ SELF SUSTAINING CHECK HINGES, OPEN FRONT LESS COVER. FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS	1"	---
L1 (DWELLING ADA ACCESSIBLE)	PROFLO/ BRIZO/ McGUIRE/ BRASSCRAFT/	FIXTURE; PROFLO NORRIS PF1812UWH; UNDERMOUNT RECTANGULAR BATHROOM SINK, WHITE VITREOUS CHINA, FRONT OVERFLOW DRAIN, 21" X 14–1/2 NOMINAL OVERALL SIZE, 5–1/4" DEEP BOWL. CONTROLS; PROFLO PFWSC3006; DECK–MOUNT SINGLE–HANDLE CENTERSET BATHROOM FAUCET, POLISHED CHROME FINISH, 2–HOLE MOUNTING, 1.2 GPM MAXIMUM FLOW RATE. DRAIN; BRIZO DRP72414PC; PUSH BUTTON DRAIN WITH OVERFLOW HOLES, CHROME PLATED BRASS, TAILPIECE. TRAP; McGUIRE MODEL 8902; 1 1/4"x1 1/2" 17 GA. P–TRAP, CHROME PLATED. STOP(S); BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER–TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS. FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS	1/2"	1/2"
L2 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ SLOAN/ McGUIRE/ ZURN/	FIXTURE; KOHLER SOHO K–2084–N–0; WALL–MOUNT BATHROOM SINK, WHITE VITREOUS CHINA, SINGLE FAUCET HOLE, OVERFLOW DRAIN, 20" X 18" NOMINAL OVERALL SIZE, CONCEALED ARM INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. CONTROLS; KOHLER SIMPLICE K–27389–4K; DECK–MOUNT SINGLE–HANDLE BATHROOM FAUCET, POLISHED CHROME FINISH, SINGLE HOLE MOUNTING, 1.0 GPM MAXIMUM FLOW RATE. TW MIXER; PROVIDE THERMOSTATIC MIXER (TMV–1) ON FAUCET SUPPLIES. SET OUTLET NOT TO EXCEED 110°F. DRAIN; McGUIRE 155A; CHROME PLATED CAST BRASS OPEN GRID P.O. PLUG W/ 17 GA. 1–1/4" X 6" BRASS TAILPIECE. TRAP; McGUIRE 8912CBECO; 1 1/4" X 1 1/2" 17 GA. P–TRAP W/ CLEANOUT PLUG, CHROME PLATED STOP(S); McGUIRE LFBV2165; 1/2" I.P.S. X 3/8" O.D. LAVATORY SUPPLY KIT, QUARTER–TURN BRASS BALL VALVES, COPPER FLEX TUBE RISERS, ALL CHROME PLATED CARRIER; ZURN Z1231EZ	1/2"	1/2"
S1 (DWELLING)	PROFLO/ McGUIRE/ BRASSCRAFT/ MOEN/	FIXTURE; PROFLO PLOMOSA PFUC207A; UNDERMOUNT STAINLESS STEEL DOUBLE BOWL KITCHEN SINK, 18 GAUGE TYPE 304 STAINLESS STEEL, 32–1/4" X 18–1/2" OVERALL, 14–5/8" X 16–5/8" X 9" DP BOWLS, 3–1/2" CENTER REAR DRAIN OPENINGS. CONTROLS; PROFLO PFXC3101CP; DECK MOUNTED, 3–HOLE, SINGLE HANDLE, HOT AND COLD MIXING FAUCET, CERAMIC DISC CARTRIDGE, 1.5 GPM FLOW RATE, CHROME FINISH. TRAP; McGUIRE MODEL 8912CBECO; 1–1/2" x 1–1/2" 17 GA. P–TRAP, CLEANOUT, CHROME PLATED. STOP(S); BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER–TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS. DISPOSER; MOEN MODEL GXP33C, CONTINUOUS FEED, 1/3 HP MOTOR, GALVANIZED STEEL GRINDING ELEMENTS, PRE–INSTALLED POWER CORD, INCLUDES UNIT DISPOSAL AIR SWITCH. 1 YEAR PARTS AND IN–HOME SERVICE WARRANTY.	1/2"	1/2"
S2 (DWELLING ADA ACCESSIBLE)	PROFLO/ McGUIRE/ BRASSCRAFT/ MOEN/	FIXTURE; PROFLO PLOMOSA PFUC217TA55; UNDERMOUNT STAINLESS STEEL DOUBLE BOWL KITCHEN SINK, 18 GAUGE TYPE 304 STAINLESS STEEL, 31" X 18" OVERALL, 14" X 16" X 5–1/4" DP BOWLS, 3–1/2" CENTER REAR DRAIN OPENINGS. CONTROLS; PROFLO PFXC3101CP; DECK MOUNTED, 3–HOLE, SINGLE HANDLE, HOT AND COLD MIXING FAUCET, CERAMIC DISC CARTRIDGE, 1.5 GPM FLOW RATE, CHROME FINISH. TRAP; McGUIRE MODEL 8912CBECO; 1–1/2" x 1–1/2" 17 GA. P–TRAP, CLEANOUT, CHROME PLATED. STOP(S); BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER–TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS. DISPOSER; MOEN MODEL GXP33C, CONTINUOUS FEED, 1/3 HP MOTOR, GALVANIZED STEEL GRINDING ELEMENTS, PRE–INSTALLED POWER CORD, INCLUDES UNIT DISPOSAL AIR SWITCH. 1 YEAR PARTS AND IN–HOME SERVICE WARRANTY. FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS	1/2"	1/2"
S3 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ McGUIRE/	FIXTURE; KOHLER MODEL K–25939; "VAULT" 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK, 30–1/4" X 16–9/16" X 5–1/2" DP BOWL, 3–1/2" REAR CENTER DRAIN, CUTOUT TEMPLATE, REQUIRES 36" WIDE MIN. BASE CABINET. CONTROLS; KOHLER RIVAL K–30469–4N; DECK–MOUNT SINGLE–HOLE SINGLE–HANDLE PULL–DOWN KITCHEN FAUCET, POLISHED CHROME FINISH, SINGLE HOLE MOUNTING, 1.5 GPM MAXIMUM FLOW RATE. DRAIN; KOHLER MODEL K–8801; 3–1/2" DRAIN, SOLID BRASS BODY & TAILPIECE W/ BASKET STRAINER, VIBRANT STAINLESS FINISH TRAP; McGUIRE MODEL 8912CBECO; 1–1/2" X 1–1/2" 17 GA. P–TRAP, CHROME PLATED. STOP(S); McGUIRE MODEL LFBV2165; 1/2" I.P.S. X 3/8" O.D. SUPPLY KIT, QUARTER–TURN BRASS BALL VALVES, COPPER FLEX TUBE RISERS, ALL CHROME PLATED. FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS	1/2"	1/2"
SH1	CLARION/ PROFLO/	BASE; CLARION MODEL RE6036NS; ALCOVE SHOWER, 1–PIECE WHITE ACRYLIC, SLIP RESISTANT FLOOR, CENTER DRAIN, MOLDED SOAP LEDGES, 7" THRESHOLD. CERTIFIED TO MEET CSA B45.5/IAPMO Z124 STANDARD. TRIM; PROFLO PF7610GCP; SINGLE–HANDLE SHOWER TIM KIT, CHROME METAL WALL ESCUTCHEON, BRASS SHOWER ARM & FLANGE, 1.75 GPM SINGLE FUNCTION SHOWERHEAD, ALL CHROME PLATED FINISH. CONTROLS; PROFLO PF4001: PRESSURE BALANCING SHOWER VALVE WITH SHOWER OUTLET, INTEGRAL STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LABELED. 1/2" IPS CONNECTIONS, VOLUME CONTROL, CHROME FINISH. SET TEMPERATURE LIMIT AT 120 DEGREES F.	1/2"	1/2"
BT1	CLARION/ PROFLO/	FIXTURE; CLARION MODEL TS6036L (LEFT–HAND DRAIN)/TS6036R (RIGHT–HAND DRAIN); 60"x36"x74–1/4" 1–PIECE ALCOVE TUB SHOWER, WHITE ACRYLIC, SLIP RESISTANT FLOOR, ABOVE FLOOR ROUGH–IN, 21" APRON, CONTRACTOR TO CONFIRM QUANTITY OF LEFT OR RIGHT HAND DRAIN ORIENTATIONS. CERTIFIED TO CSA B45.5/IAPMO Z124 STANDARD. TRIM; PROFLO PF7611GCP; SINGLE–HANDLE TUB/SHOWER TIM KIT, CHROME METAL WALL ESCUTCHEON, BRASS SHOWER ARM & FLANGE, 1.75 GPM SINGLE FUNCTION SHOWERHEAD, SLIP–FIT SPOUT, ALL CHROME PLATED FINISH. CONTROLS; PROFLO PF4001: PRESSURE BALANCING SHOWER VALVE WITH SHOWER OUTLET, INTEGRAL STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LABELED. 1/2" IPS CONNECTIONS, VOLUME CONTROL, CHROME FINISH. SET TEMPERATURE LIMIT AT 120 DEGREES F.	1/2"	1/2"
BT2 (HANDICAP ACCESSIBLE)	CLARION/	FIXTURE; CLARION MODEL TS6032L (LEFT–HAND DRAIN)/TS6032R (RIGHT–HAND DRAIN); 60"x32"x74–1/4" 1–PIECE ALCOVE TUB SHOWER, WHITE ACRYLIC, SLIP RESISTANT FLOOR, ABOVE FLOOR ROUGH–IN, 21" APRON, CONTRACTOR TO CONFIRM QUANTITY OF LEFT OR RIGHT HAND DRAIN ORIENTATIONS. CERTIFIED TO CSA B45.5/IAPMO Z124 STANDARD. TRIM; PROFLO PF7611GCP; SINGLE–HANDLE TUB/SHOWER TIM KIT, CHROME METAL WALL ESCUTCHEON, BRASS SHOWER ARM & FLANGE, 1.75 GPM SINGLE FUNCTION SHOWERHEAD, SLIP–FIT SPOUT, ALL CHROME PLATED FINISH. CONTROLS; PROFLO PF4001: PRESSURE BALANCING SHOWER VALVE WITH SHOWER OUTLET, INTEGRAL STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LABELED. 1/2" IPS CONNECTIONS, VOLUME CONTROL, CHROME FINISH. SET TEMPERATURE LIMIT AT 120 DEGREES F.	1/2"	1/2"
MS1 (CLUB HOUSE)	FIAT/ T&S BRASS/	FIXTURE; FIAT MODEL NO. MSB–2424; MOLDED STONE WITH INTEGRAL DRAIN AND GRID STRAINER. CONTROLS; T&S BRASS MODEL B–0665–BSTP; 8" WALL MOUNT FAUCET WITH INTEGRAL SERVICE STOPS, 1/4–TURN CERAMIC CARTRIDGES W/INTEGRAL CHECK VALVES, 6" SPOUT W/VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, PAIL HOOK AND WALL BRACE OTHER; FIAT MODEL NO. E–77–AA; VINYL BUMPER GUARDS; FIAT MODEL NO. MSG–2424; STAINLESS STEEL WALL GUARDS FIAT MODEL NO. 889–CC; STAINLESS STEEL MOP HANGER	1/2"	1/2"

PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
——DWS——	DOMESTIC WATER SERVICE (BEL. FLR.)		PIPE FLANGES
——FWS——	FIRE WATER SERVICE (BEL. FLR.)		PIPE UNION
——SAN——	SANITARY (ABV. FLR.)		PETE'S PLUG
----SAN----	SANITARY (BEL. FLR.)		DIRECTION OF FLOW
— —V— —	SANITARY VENT		HOSE BIBB/WALL HYDRANT
—— IND ——	INDIRECT DRAIN WASTE (ABV. FLR.)		PIPE DOWN
---- IND ----	INDIRECT DRAIN WASTE (BEL. FLR.)		PIPE UP
——PSTM——	PRIMARY STORM DRAIN (ABV. FLR.)		PIPE BRANCH TOP CONN.
---PSTM----	PRIMARY STORM DRAIN (BEL. FLR.)		PIPE BRANCH BOTTOM CONN.
——SSTM——	SECONDARY STORM DRAIN (ABV. FLR.)		PIPE CAP (OR PLUG)
---SSTM----	SECONDARY STORM DRAIN (BEL. FLR.)		THERMOMETER
—— CW ——	DOMESTIC COLD WATER		PRESSURE GAUGE
—— HW ——	DOMESTIC HOT WATER (EQUAL TO & GREATER THAN 110°F.)		P–TRAP (PLAN VIEW)
——HWR——	DOMESTIC HOT WATER RETURN	CO	WALL OR EXPOSED CLEANOUT
——TW——	TEMPERED WATER (BETWEEN 85°F. & 110°F.)	CO	FLOOR OR GRADE CLEANOUT
—— TP ——	TRAP PRIMER SUPPLY LINE	VTR	VENT–THRU–ROOF
——G——	LOW PRESSURE NATURAL GAS (BETWEEN 7" W.C. TO 14" W.C.)	FD	FLOOR DRAIN
——MG——	MEDIUM PRESSURE NATURAL GAS (BETWEEN 1 PSI TO 5 PSI)	FS	FLOOR SINK
——SPD——	SUMP PUMP DISCHARGE		CURB BOX & VALVE
——D——	DRAIN		JANITOR OR SHOWER FAUCET/HEAD LOCATION
—·—(E)—·—	EXISTING WORK TO REMAIN	2	PIPE THRU FLOOR AS SHOWN
	BALL VALVE		CONNECT TO EXISTING
	BUTTERFLY VALVE	#	PLAN CODED NOTE NUMBER
	OS&Y GATE VALVE	#	EQUIPMENT NUMBER
	PLUG VALVE/GAS COCK	RM#	ROOM NUMBER
	COMB. BALANCE/SHUTOFF VALVE	A / SHEET	STACK SYMBOL
	PRESSURE REDUCING VALVE	1 / SHEET	RISER SYMBOL
	SOLENOID VALVE		
	CHECK VALVE		
	Y–TYPE STRAINER		

PLUMBING ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED

ABV.	ABOVE	HTR.	HEATER
A.F.F.	ABOVE FINISHED FLOOR	HTG.	HEATING
A.P.	ACCESS PANEL	INV. ELEV.	INVERT ELEVATION
APPROX.	APPROXIMATELY	INT.	INTERIOR
BEL.	BELOW	J.R.	JANITORS RECEPTOR
BLDG.	BUILDING	K.E.S.	KITCHEN EQUIPMENT SUPPLIER
B.T.	BATH TUB	LAV.	LAVATORY
C.D.	CANOPY DRAIN	M. H.	MANHOLE
CHEM.	CHEMICAL	MFR.	MANUFACTURER
C.I.	CAST IRON	MECH.	MECHANICAL
CLG.	CEILING	N.C.	NORMALLY CLOSED
CONC.	CONCRETE	PE	POLYETHYLENE
CO.	CLEAN OUT	P.C.	PLUMBING CONTRACTOR
CONN.	CONNECT	PLBG.	PLUMBING
CONT.	CONTINUATION	PRESS.	PRESSURE
CONTR.	CONTRACTOR	REQD.	REQUIRED
DTL.	DETAIL	R.D.	ROOF DRAIN
DIA.	DIAMETER	RM.	ROOM
D.F.	DRINKING FOUNTAIN	RPZ	REDUCED PRESSURE ZONE
DN.	DOWN	S.D.	SHOWER DRAIN
D.S.	DOWNSPOUT	SDR	STANDARD DIMENSION RATIO
E.C.	ELECTRICAL CONTRACTOR	SH.	SHOWER
ELEC.	ELECTRICAL	S.I.	SURFACE INLET
E.W.C.	ELECTRIC WATER COOLER	S.P.D.	STANDARD PROCTOR DENSITY
EX.	EXISTING	S.S.	SERVICE SINK
EXT.	EXTERIOR	S.U.C.	SITE UTILITY CONTRACTOR
FT. HD.	FEET OF HEAD	T.P.	TRAP PRIMER
FLR.	FLOOR	T.S.	TRAP SEAL
F.D.	FLOOR DRAIN	TYP.	TYPICAL
F.O.G.	FATS, OILS, & GREASE	UR.	URINAL
F.S.	FLOOR SINK	U.N.O.	UNLESS NOTED OTHERWISE
FURN.	FURNISH	VAC.	VACUUM
F.V.	FLUSH VALVE	V.S.P.	VITRIFIED SEWER PIPE
G.C.	GENERAL CONTRACTOR	V.T.R.	VENT THRU ROOF
G.D.	GARBAGE DISPOSER	W.	WASTE
GEN.	GENERAL	W/	WITH
H.B.	HOSE BIBB	WC	WATER CLOSET
H.C.	HEATING CONTRACTOR	W.H.	WALL HYDRANT

PLUMBING PIPING SCHEDULE

PIPING TYPE	DESCRIPTION
DOMESTIC HOT WATER, DOMESTIC COLD WATER AND TRAP PRIMER SUPPLY	OUTSIDE OF DWELLING UNITS, UPSTREAM OF TENANT ISOLATION VALVE; TYPE L HARD TEMPER COPPER PIPE WITH WROT COPPER SOCKET SOLDER FITTINGS. SOLDER MATERIALS TO BE "LEAD FREE". INSIDE DWELLING UNITS, DOWNSTREAM OF TENANT ISOLATION VALVE; EITHER COPPER PIPE AND FITTINGS AS PREVIOUSLY SPECIFIED, OR CROSSLINKED POLYETHYLENE PEX –A TUBING AND PEX–A COLD EXPANSION TYPE FITTINGS. NOTE THAT CPVC AND PEX PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. PIPING TO BE RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER TEMPERATURE. ALL COPPER AND PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1–1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.
SANITARY WASTE, SANITARY VENT AND STORM DRAIN	OUTSIDE OF DWELLING UNITS; STANDARD WEIGHT CAST IRON DWV NO–HUB PIPE WITH CAST IRON DWV NO–HUB FITTINGS AND NEOPRENE GASKET STAINLESS STEEL BAND COUPLINGS, OR SCHEDULE 40 PVC DWV PIPE WITH PVC DWV SOCKET SOLVENT FITT–INGS. INSIDE OF DWELLING UNITS; CAST IRON ONLY AS PREVIOUSLY SPECIFIED. THE FOLLOWING EXCEPTIONS ONLY MAY BE PVC AS PREVIOUSLY SPECIFIED: A. SANITARY VENT PIPING B. SECONDARY/EMERGENCY STORM DRAIN PIPING C. INDIVIDUAL PLUMBING FIXTURE ABOVE FLOOR SANITARY DRAIN PIPING D. SANITARY PIPING FOR A MULTI–LEVEL TOWNHOME OR PENTHOUSE COMPLETELY WITHIN THE STRUCTURAL ENCLOSURE OF THE UNIT SERVED. THIS DOES NOT APPLY TO PIPING IN COMMON WALL STRUCTURE WITH OR CEILING SPACE ABOVE ANOTHER DWELLING UNIT. E. SANITARY PIPING IN SUB–SLAB SPACES BELOW THE TOWNHOME UNITS. NOTE THAT PVC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. NOTE THAT PVC PIPING MAY NOT BE INSTALLED INSIDE WALLS, CHASES OR OTHER STRUCTURES DIRECTLY ADJACENT TO DWELLING UNITS, UNLESS THESE STRUCTURES ARE IDENTIFIED AS ACOUSTICALLY PROTECTED BY THE ARCHITECTURAL DOCUMENTATION. ALL PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1–1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.
SUMP PUMP DISCHARGE ("PD" PLAN DESIGNATION)	PIPING AS SPECIFIED FOR DOMESTIC COLD WATER OR SCHEDULE 40 GALVANIZED STEEL PIPE WITH THREADED IRON FITTINGS. NOTE THAT CPVC AND PVC PIPING SHALL NOT BE USED IN ELEVATOR SHAFTS AND SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. PIPING TO BE RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER TEMPERATURE.
SMALL DIAMETER (1/2" TO 1" SIZE, INCLUSIVE) DRAIN ("D" PLAN DESIGNATION)	PIPING AS SPECIFIED FOR DRAIN PUMP DISCHARGE OR SCHEDULE 40 PVC WITH SOCKET SOLVENT WELD PVC PRESSURE FITTINGS. NOTE THAT PLASTIC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS.

PLUMBING NOTES

A. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.

B. ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS INDICATED OTHERWISE.

C. THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE PROJECT IN ADVANCE OF WORK (INCLUDING FABRICATION).

D. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC.. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.

E. LAYOUT AND INSTALLATION OF PLUMBING CONTRACT PIPING, EQUIPMENT, ITEMS AND ELEMENTS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.

F. COORDINATE EXACT LOCATION AND INSTALLATION OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS, FOR DIRECT (PIPED) AND/OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.) CONNECTION/SERVICE.

G. RUN ALL WATER AND LINES LEVEL.

H. ROUGH IN ALL PIPING (SUPPLY, RETURN, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL (AS APPLICABLE), AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR NON–FREEZE INSTALLATION.

I. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF OHIO BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND HANDICAP ACCESSIBILITY PROVISIONS.

J. PROVIDE CLEANOUTS AS FOLLOWS:
   a. AT THE BASE OF ALL SANITARY STACKS.
   b. IN ALL HORIZONTAL SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 L.F. IN LENGTH.
   c. AT EACH CHANGE OF DIRECTION BY SANITARY PIPING BELOW GRADE OR AT THE LOWEST POINT OF THE HORIZONTAL DRAINAGE SYSTEM GREATER THAN 45 DEGREES, UNLESS ANOTHER CLEANOUT IS WITHIN 40 FT. DEVELOPED LENGTH.

K. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.

L. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS PROVIDED UNDER SEPARATE CONTRACT, INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ETC.

M. VERIFY THE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL DRAINS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLTION WITH THE APPROPRIATE CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT TO APPROVAL.

N. NO LIQUID TRANSMISSION PLUMBING UTILITY PIPING IS TO RUN ABOVE ELECTRIC SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING CLEARANCE AREAS 42" IN FRONT AND MINIMUM 30" WIDE). CONFIRM LOCATIONS OF NEW ELECTRICAL EQUIPMENT FROM ELECTRICAL CONTRACT DOCUMENTATION, AND MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION.

PLUMBING GENERAL NOTES

A. ALL SUPPLY WATER LINES, EXPOSED OR CONCEALED, SHALL BE INSULATED. ENSURE THAT THIS INSULATION MATERIAL IS PLENUM RATED.

B. THE CONSTRUCTION MANAGER SHALL ENSURE THAT THE PLUMBING CONTRACTOR DOES NOT LEAVE ANY UNCAPPED OR OPEN SUPPLY, WASTE, DRAIN, OR VENT LINES.

C. ALL CORE DRILLING/SAW CUTTING SHALL BE SCHEDULED THROUGH THE CONSTRUCTION MANAGER.

D. WHEN CONSTRUCTION IS COMPLETED, ALL SANITARY LINES SHALL BE FLUSHED, CLEANED AND CAMERA INSPECTED TO CONFIRM PROPER OPERATING CONDITION. WRITTEN NOTIFICATION, INDICATING DATE AND TIME, SHALL BE PROVIDED TO THE LANDLORD BEFORE THE BARRICADE IS REMOVED.

E. ENSURE THAT ALL SANITARY CLEANOUTS ARE EXPOSED AND REMAIN ACCESSIBLE. SINCE MANY TRADES CAN AFFECT THIS REQUIREMENT, THE CONSTRUCTION MANAGER SHALL ENSURE THAT ALL SUBCONTRACTORS ARE AWARE OF ANY EXISTING CLEANOUTS. COORDINATE LOCATIONS WITH THE LANDLORD AFTER DEMOLITION.

NATURAL GAS NOTES

A. PROVIDE A MANUAL SHUTOFF VALVE, UNION AND 6" LONG DIRT LEG AT POINT OF CONNECTION TO HVAC EQUIPMENT. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK. SEE DETAILS AND PIPING DIAGRAMS PROVIDED FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

B. ALL METALLIC PIPING INSTALLED AT BUILDING EXTERIOR TO BE PROVIDED WITH FIELD APPLIED PAINTED FINISH; (1) UNDERCOAT AND (1) EXTERIOR COAT WITH LISTED/APPROVED WEATHER–RESISTANT EPOXY PAINT.

C. FIELD VERIFY LOCATION OF GAS CONNECTION ON ACTUAL HVAC UNIT PURCHASED AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK.

D. MAKE FINAL CONNECTION TO ALL GAS EQUIPMENT. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK.

E. ALL GAS PIPING ABOVE THE CEILING WITHIN RETURN AIR PLENUM SHALL HAVE WELDED JOINTS.

FLOW TEST INFORMATION

TEST NO: 3688 DATE: 11/06/2024 TIME: 11:35:00 AM

FLOW HYDRANT LOCATION:	1E OF SCHWARTZ RD ON REFUGEE RD
FLOW HYDRANT LOCATION:	1W OF SCHWARTZ RD ON REFUGEE RD
PRESS. HYDRANT LOCATION:	2E OF SCHWARTZ RD ON REFUGEE RD
PRESS. HYDRANT ID:	0143A04
STATIC PRESSURE:	75 PSI
RESIDUAL PRESSURE:	71 PSI
PITOT 1:	37 PSI
PITOT 2:	14 PSI
OUTLET:	4" DIFF
FLOW (GPM):	3870
FLOW @ 20 PSI (GPM):	>5000
WATER DISTRICT:	PARSONS
PIPE SIZE:	24"
ELEVATION:	760'
HYDRANT OWNER:	COLUMBUS
COEFFICIENT:	0.77
CH:	950'
HGL:	933'

PLEASE REMEMBER WHEN REVIEWING THE RESULTS OF THE FLOW TEST THAT VARYING FACTORS COULD CHANGE THE RESULTS, I.E., HOURLY FLUCTUATIONS IN WATER LEVELS AT THE CITY OF COLUMBUS WATER TANKS, CHANGES IN CONSUMER DEMANDS IN THE AREA OF THE FLOW TEST, AND SEASONAL CHANGES IN WATER PLANT DISCHARGE PRESSURES. THE NET EFFECT OF THESE CHANGES WILL NORMALLY SHIFT STATIC PRESSURES BY NO MORE THAN FIVE (5) TO FIFTEEN (15) PSI.

P301–24217.DWG

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6130 Wilcox Road, Dublin, Ohio 43016
(614) 766 4896 FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING NOTES, SCHEDULES & LEGENDS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P301

CD PROGRESS SET

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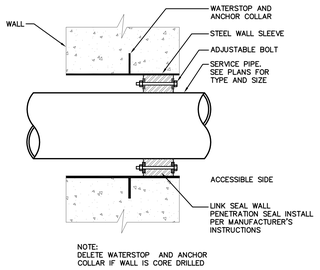
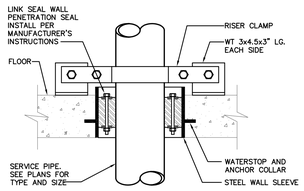


NOTE:
DELETE WATERSTOP AND ANCHOR COLLAR IF WALL IS CORE DRILLED

WATERTIGHT WALL PENETRATION FOR PIPES

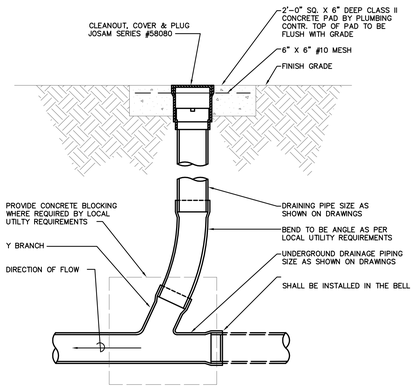
NO SCALE



NOTES:
1. DELETE WATERSTOP AND ANCHOR COLLAR IF FLOOR IS CORE DRILLED.
2. DELETE RISER CLAMP AT SLAB ON GRADE PENETRATION

WATERTIGHT FLOOR PENETRATION FOR PIPES

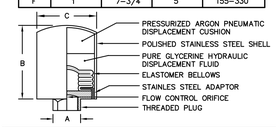
NO SCALE



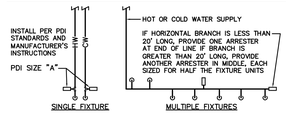
EXTERIOR CLEANOUT DETAIL

NO SCALE

WATER HAMMER ARRESTOR SCHEDULE				
TYPE (WHA)	DIMENSION 'A' DIA	DIMENSION 'B'	DIMENSION 'C' DIA	FIXTURE UNIT CAPACITY
'A'	3/4"	4-1/2"	3-1/4"	1-11
'B'	1"	5-1/4"	3-1/4"	12-32
'C'	1"	6"	3-1/4"	33-60
'D'	1"	6-3/4"	3-1/4"	61-113
'E'	1"	6-3/4"	5"	114-154
'F'	1"	7-3/4"	5"	155-330



WATER HAMMER ARRESTER SHALL BE SIZED AND PLACED THROUGHOUT PLUMBING WATER SYSTEMS AS REQUIRED PER PLUMBING & DRAINAGE INSTITUTE'S STANDARD PDI-WH-201, WATER HAMMER ARRESTERS.

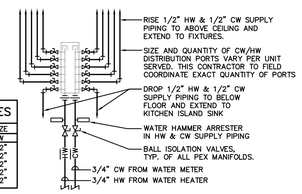


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154

FIXTURE UNIT TABULATION (WSFU)		
FIXTURE	COLD	HOT
TANK WATER CLOSET	5	-
F.V. WATER CLOSET	10	-
F.V. URINAL	5	-
LAVATORY	1.5	1.5
KITCHEN SINK	1.5	1.5
3-COMP SINK	3	3
MOP BASIN	2.25	2.25

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS, ZURN OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

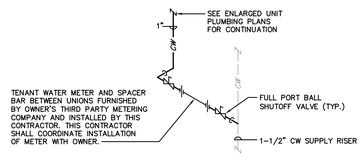
WATER HAMMER ARRESTER DIAGRAM



FIXTURE SUPPLY SIZES		
FIXTURE	PEX PIPE SIZE	
	HW	CW
WATER CLOSET	-	1/2"
LAVATORY	1/2"	1/2"
SHOWER/BATHTUB	1/2"	1/2"
KITCHEN SINK	1/2"	1/2"
LAUNDRY WASHER	1/2"	1/2"

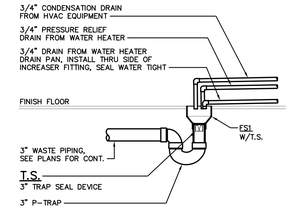
NOTES:
1. FOR ABOVE GROUND PIPING WITHIN DWELLING UNITS UP TO AND INCLUDING 3/4' IN SIZE, CROSSLINKED POLYETHYLENE PEX-A TUBING AS MANUFACTURED BY UPONOR OR EQUAL CONFORMING TO ASTM F876 AND ASTM F877 MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.
2. PEX MANIFOLDS SHALL BE A TYPE L COPPER BODY WITH BRASS PROPEX OUTLET CONNECTIONS. ALL MANIFOLDS TO BE PROVIDED WITH INLET CONNECTIONS CONFORMING TO ABOVE. FIXTURE SUPPLY SIZES TABLE. EXACT QUANTITY OF COLD AND HOT WATER OUTLET PORTS TO BE COORDINATED IN-FIELD IN A ADVANCE OF WORK BY THIS CONTRACTOR.

TYPICAL PEX MANIFOLD PIPING DIAGRAM



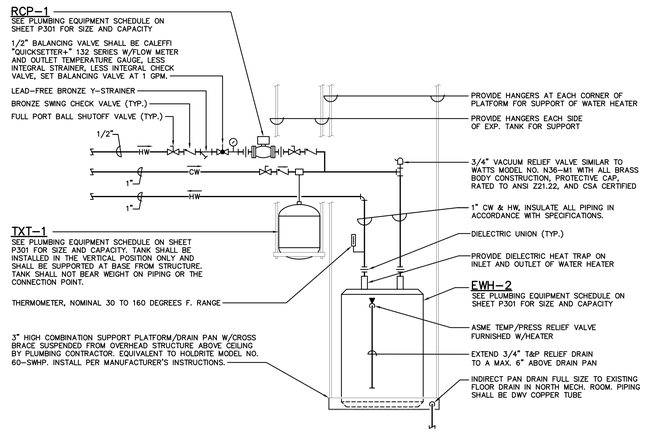
INSTALLATION NOTES:
1. INSTALL METERS ON REAR WALL OF UTILITY CLOSET AT A MINIMUM 24" ABOVE FINISH FLOOR.
2. INSTALL METERS TO ALLOW FOR READY ACCESS FROM THE FRONT OF THE UTILITY CLOSET.
3. INSTALL METERS WITH A MINIMUM 7-1/2" OF STRAIGHT PIPE AT THE INLET AND OUTLET.
4. INSULATE ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH SPECIFICATIONS.

TYPICAL DWELLING UNIT WATER METER DIAGRAM



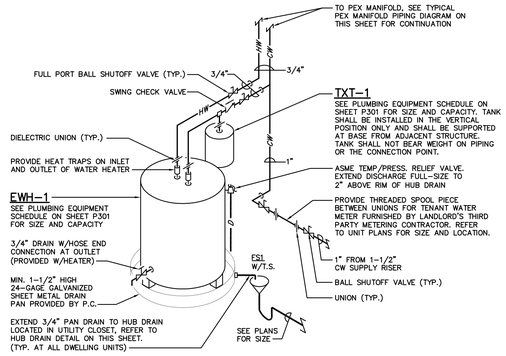
DWELLING UNIT HUB DRAIN DETAIL

NO SCALE (TYPICAL AT UTILITY CLOSETS IN DWELLING UNITS)



INSTALLATION NOTES:
1. INSTALL SUSPENDED SUPPORT PLATFORM/DRIP PAN WITH 1/2" ALL-THREAD SUPPORT RODS TO OVERHEAD STRUCTURE AS HIGH AS POSSIBLE ABOVE CEILING. MINIMUM OF FOUR (4) SUPPORT RODS TO BE PROVIDED.
2. STORAGE OF HOT WATER TO BE MAINTAINED AT A TEMPERATURE NOT TO EXCEED 140°F. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS AND COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF ANY WORK.
3. PROVIDE HEAT TRAP FITTINGS ON INLET AND OUTLET CONNECTIONS OF HEATER.
4. INSULATE ALL PIPING IN ACCORDANCE WITH SPECIFICATIONS.

EWH-2; WATER HEATER PIPING DIAGRAM (CLUB HOUSE JANITOR CLOSET)



INSTALLATION NOTES:
1. ALL WATER HEATERS INSTALLED ON FLOORS OTHER THAN SLAB ON GRADE OR NON-PERMEABLE CONCRETE SHALL INCLUDE A DRIP PAN PROVIDED BY THE HEATER MANUFACTURER. THE DRIP PAN SHALL BE MIN. 1-1/2" HIGH, AND MIN. 4" LARGER THAN HEATER DIAMETER. PROVIDE A 3/4" SIDE OUTLET WITH FULL SIZE DISCHARGE TO FLOOR DRAIN.
2. INSTALL EACH WATER HEATER IN SUCH A MANNER AS TO PROVIDE ACCESS TO SERVICE COVERS AND DRAIN RELATIVE TO STRUCTURE AND WORK OF OTHER TRADES (FURNACE, ETC.). CONDITIONS TO BE CONFIRMED AT EACH INSTALLATION (VARIES BY TENANT UNIT TYPE & CONFIGURATION).
3. STORAGE OF HOT WATER TO BE MAINTAINED AT A TEMPERATURE NOT TO EXCEED 140°F. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS AND COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF ANY WORK.

EWH-1; DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM

P401-24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P401

CD PROGRESS SET

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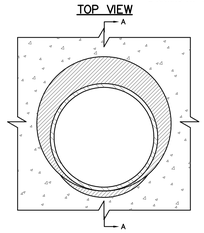
UL/CUL SYSTEM NO. CAJ0154

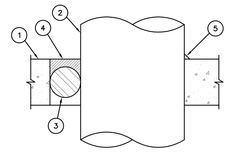
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3–HR
T RATING = 1/4–HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

TOP VIEW



SECTION A–A



1. CONCRETE FLOOR OR WALL ASSEMBLY (3–HR. FIRE–RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4–1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

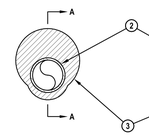
NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3–1/4".
3. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. W–L–2377

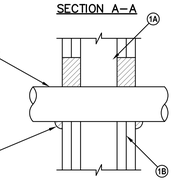
PLASTIC PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

F RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
L – RATING AT AMBIENT – LESS THAT 1 CFM/SQ FT
L – RATING AT 400°F – 4 CFM/SQ FT

FRONT VIEW



SECTION A–A



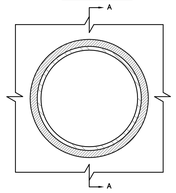
1. WALL ASSEMBLY – THE 1 AND 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2–1/2 IN. WIDE BY 1–3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B.GYPSUM BOARD* – THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3 IN. THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT – ONE NONMETALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO A MAX 1–1/4 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) FLOWGUARD GOLD® SDR11 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) BLAZEMASTER® SDR13.5 CPVC PIPE OR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
3. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 5/8 IN. AND 1–1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. AT POINT CONTACT LOCATION, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.

UL/CUL SYSTEM NO. WL1085

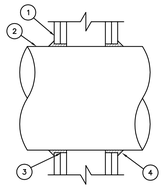
METAL PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

F RATING = 1–HR. OR 2–HR.
T RATING = 0–HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..

FRONT VIEW



SECTION A–A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1–HR OR 2–HR FIRE–RATING) (2–HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

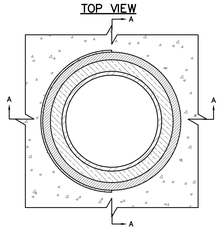
NOTES:
1. MAXIMUM DIAMTER OF OPENING = 13–1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

UL/CUL SYSTEM NO. CAJ5091

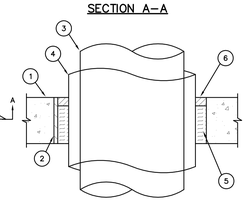
INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2–HR
T RATING = 1–HR
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

TOP VIEW



SECTION A–A



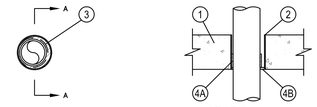
1. CONCRETE FLOOR OR WALL ASSEMBLY (3–HR. FIRE–RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4–1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 20".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 2–1/4".
3. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

UL/CUL SYSTEM NO. CAJ2569

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2–HR
T RATING = 0–HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



SECTION A–A

1. FLOOR OR WALL ASSEMBLY –MIN 4–1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF OR 1600–2400 KG/M3) CONCRETE FLOOR OR WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE –(OPTIONAL) –NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH PENETRANTS –ONE NONMETALLIC PIPE TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MAX DIAM AND TYPE OF PENETRANT USED AS TABULATED IN ITEM 4A. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. POLYVINYL CHLORIDE (PVC) PIPE –NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE –NOM 4 IN. DIAM (OR SMALLER) SDR13.5 CPVC FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   C. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE –NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE ABS FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
4. FIRESTOP SYSTEM –THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* – WRAP STRIP –ONE LAYER OF INTUMESCENT WRAP STRIP IS CONTINUOUSLY WRAPPED AROUND THE PIPE WITH ENDS BUTTED AND HELD IN PLACE WITH INTEGRATED TAPE. WRAP STRIP INSTALLED RECESSED 1/4 IN. (6 MM) FROM BOTTOM SURFACE OF FLOOR OR BOTH WALL SURFACES TO ACCOMMODATE FILL MATERIAL. SIZE OF WRAP STRIP FOR A GIVEN SIZE PENETRANT IS SHOWN IN THE TABLE BELOW.
   B. FILL, VOID OR CAVITY MATERIAL* –MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

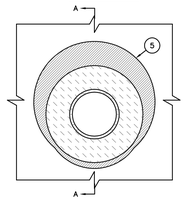
Product Designation	Nom Pipe Size Diam in. (mm)	Max Opening Diam in. (mm)	Annular Space Min in. (mm)	Annular Space Max in. (mm)	Nom Wrap Strip Thick in. (mm)	Nom Wrap Strip Width in. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	9/16 (14)	3/16 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (10)	1-1/8 (28)	3/8 (10)	1-3/4 (44)

UL/CUL SYSTEM NO. WL5029

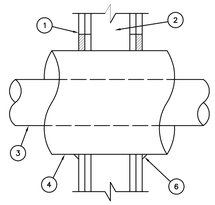
INSULATED METAL PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

T RATING = 1/2–HR., 3/4 HR., 1–HR., AND 1–3/4 HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

FRONT VIEW

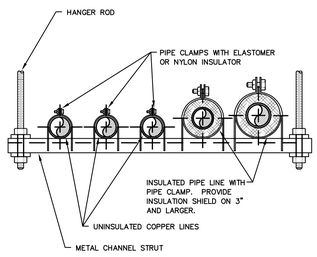


SECTION A–A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1–HR. OR 2–HR. FIRE–RATING) (2–HR. SHOWN).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2–1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS–FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS–ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS–ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

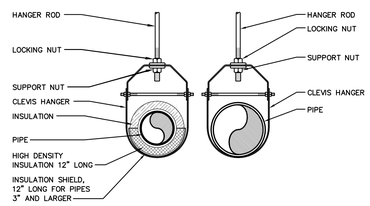
NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1–7/8".



NOTE:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

TRAPEZE PIPE HANGER DETAIL

NO SCALE



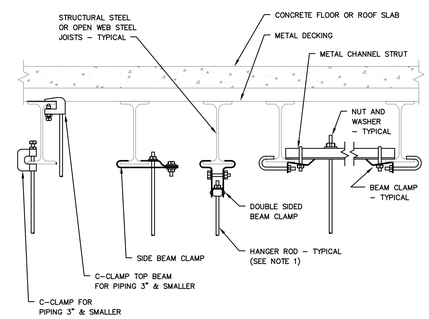
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA.
4" AND 5"	5/8"
6" THRU 8"	3/4"
12"	7/8"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'
3" THRU 8"	12'

NOTE:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

PIPE HANGER INSTALLATION DETAIL

NO SCALE



NOTE:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL

NO SCALE

P402–24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

P402

CD PROGRESS SET

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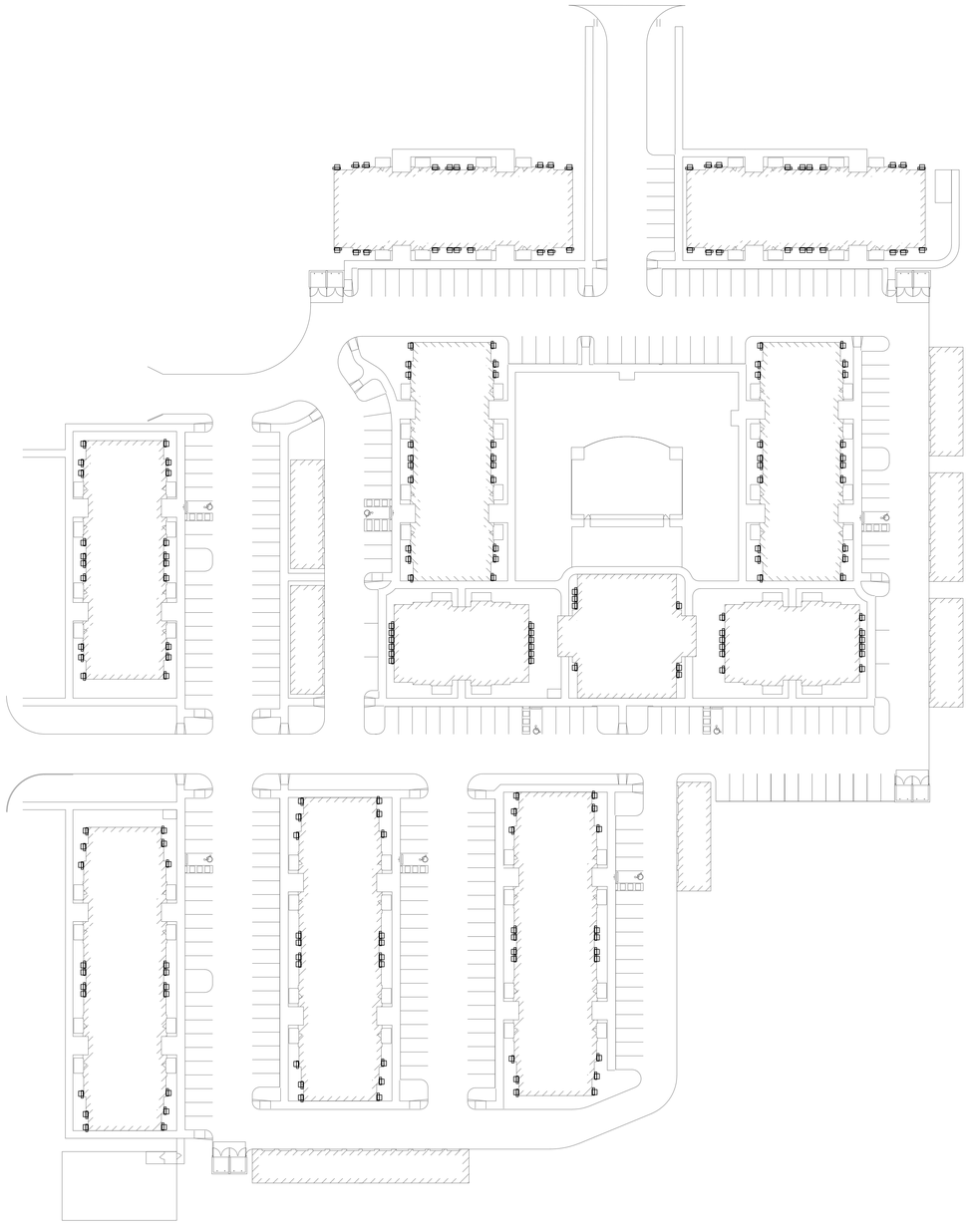

HVAC SITE PLAN
SCALE: 1"=40'-0"

H100-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
?	?	?	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
HVAC SITE PLAN

PROGRESS
DRAWING
NOT FOR
CONSTRUCTION

05/01/2025

23446

H100

CD PROGRESS SET

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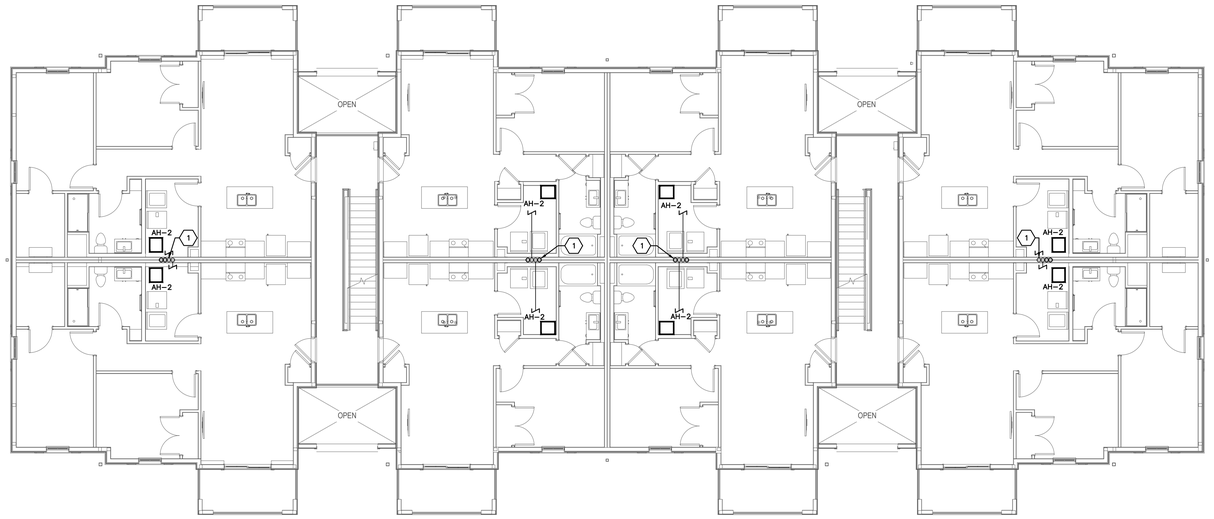
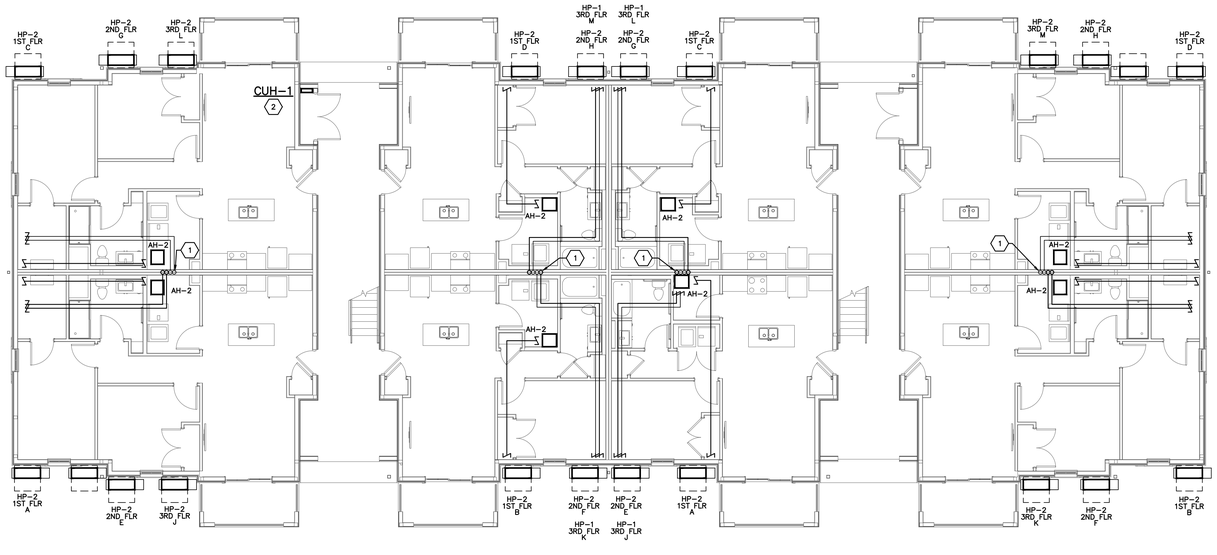


LEVEL 02 HVAC PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET HXX (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P/FP DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL NEC CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02 HVAC PLANS

H101-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MCFERRIN	B. MCFERRIN		24217

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H101-A
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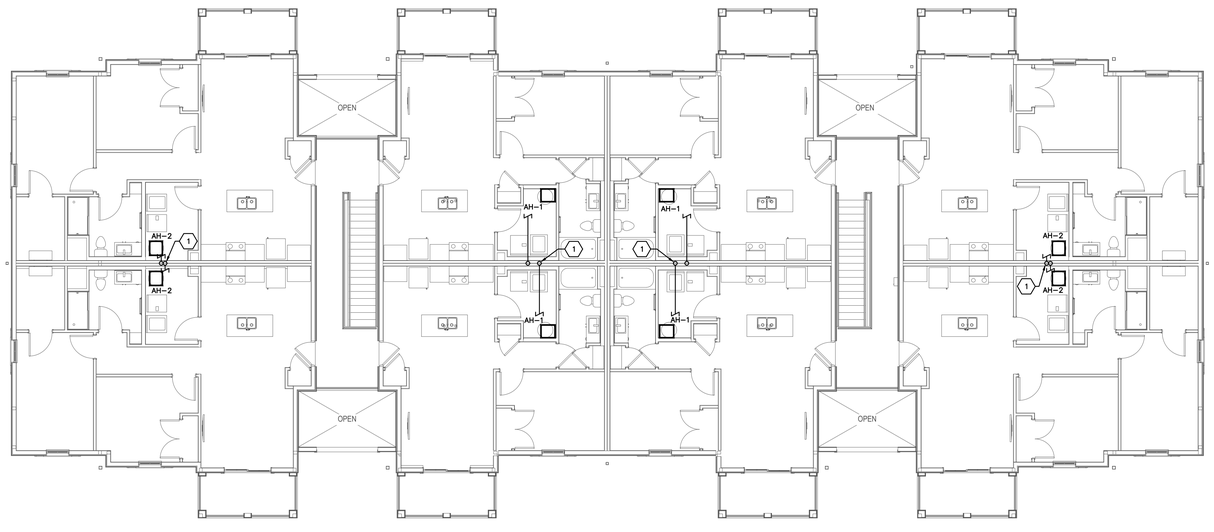

LEVEL 03 HVAC PLAN – BUILDING A

SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H-XX (TYP.).

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03 & ROOF HVAC PLANS

H102-A-24217.DWG

PRATER
Engineering Associates, Inc.
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Dublin, Ohio 43016
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B. MCFERRIN	B. MCFERRIN		24217

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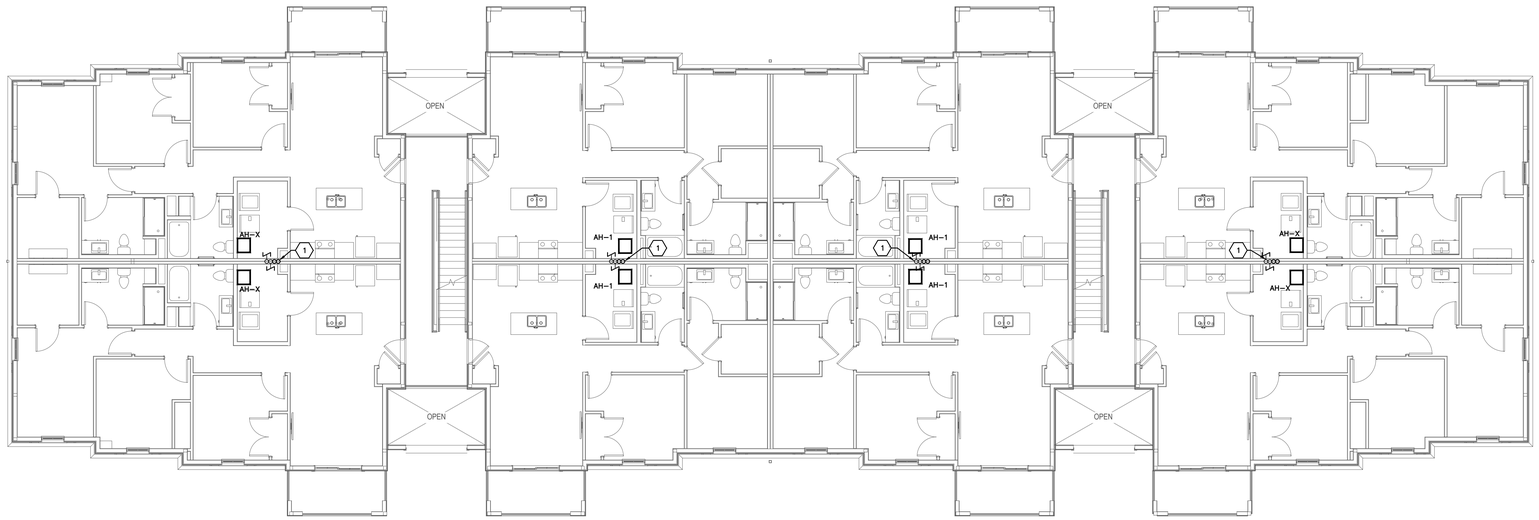
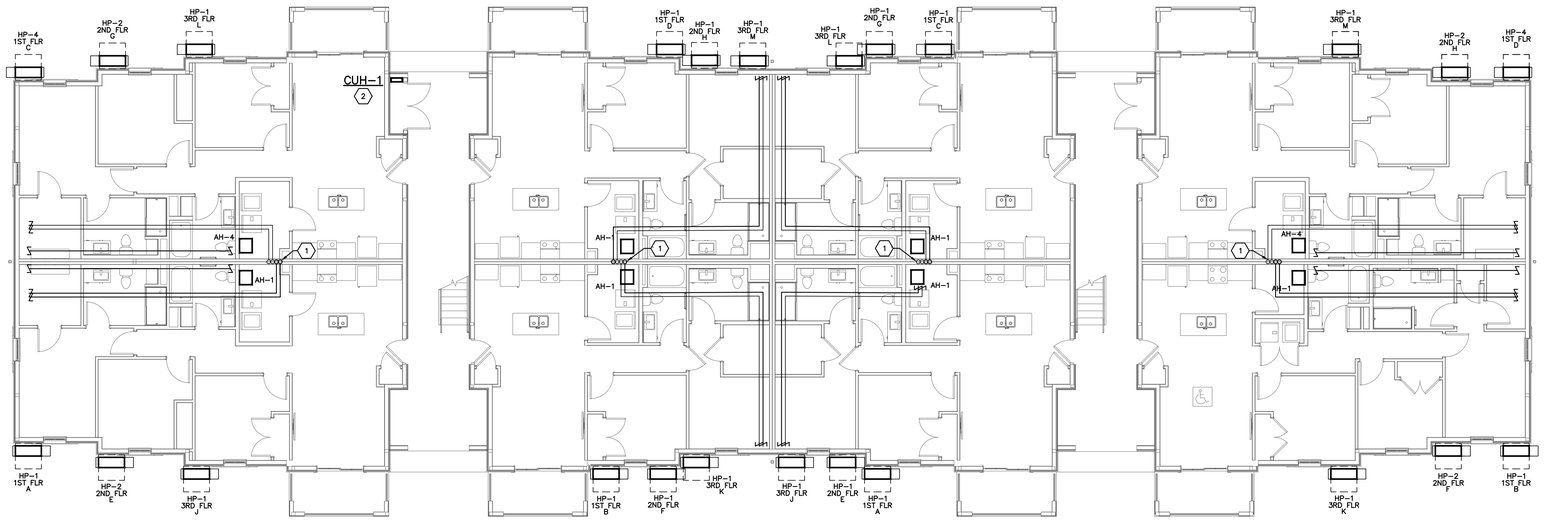


LEVEL 02 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H-XX (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P/FP DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL NEC CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
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THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
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CMHA

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300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 HVAC PLANS

H103-B-24217.DWG

PRATER
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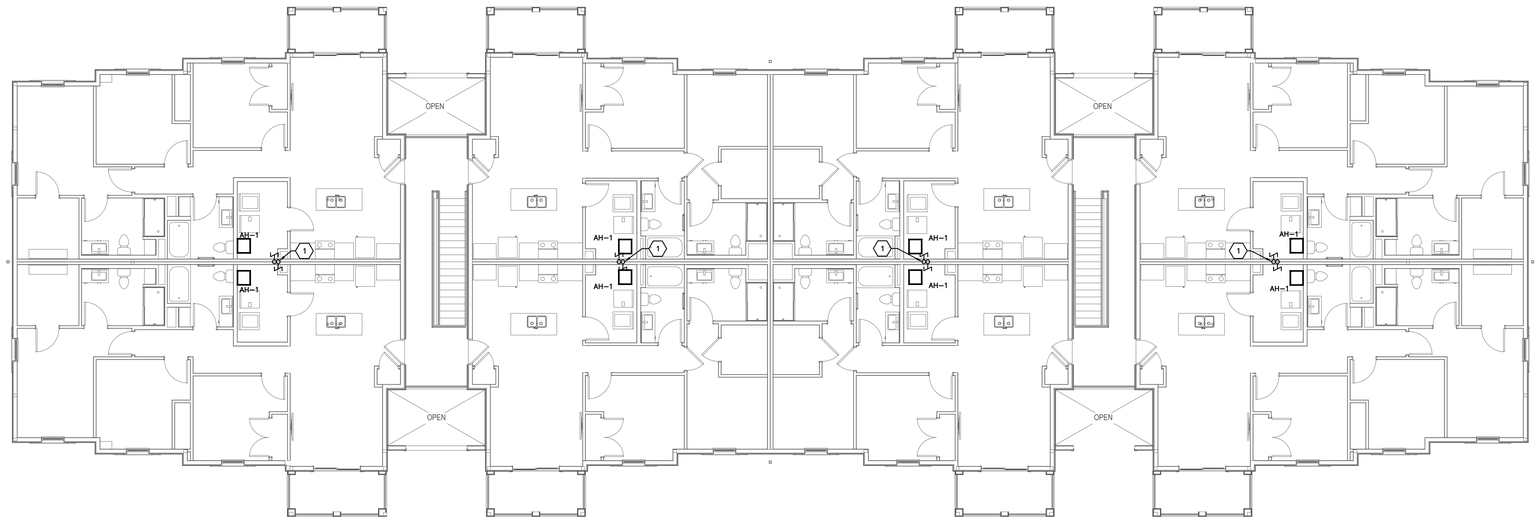

LEVEL 03 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H-XX (TYP.).

#	DATE	CHANGE DESCRIPTION

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03 & ROOF HVAC PLANS

H104-B-24217.DWG

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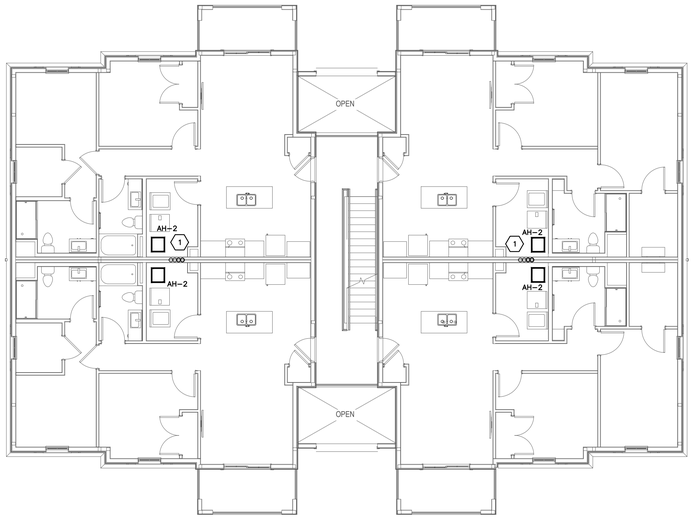
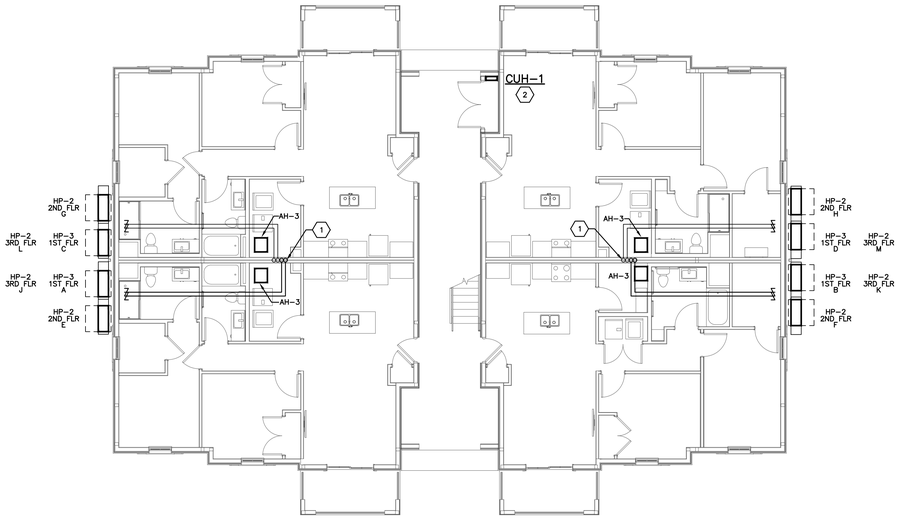


LEVEL 02 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES ⬡

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H-XX (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P/FP DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL NEC CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 01 & 02 HVAC PLANS

H105-C-24217.DWG

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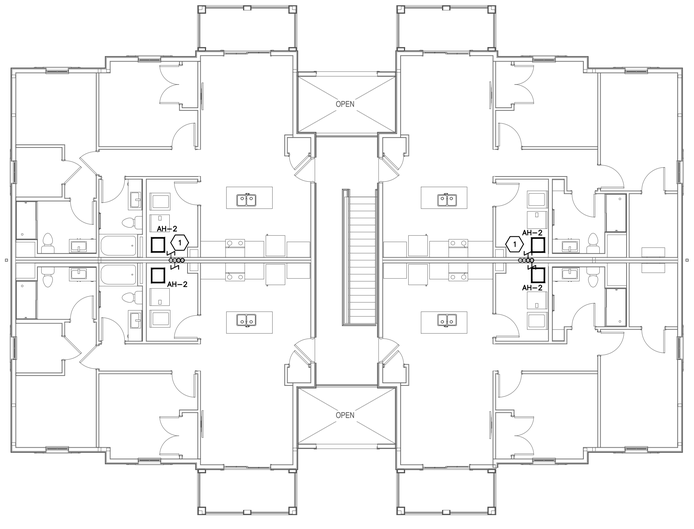

LEVEL 03 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H-XX (TYP.).

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
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CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 03 & ROOF HVAC PLANS

H106-C-24217.DWG

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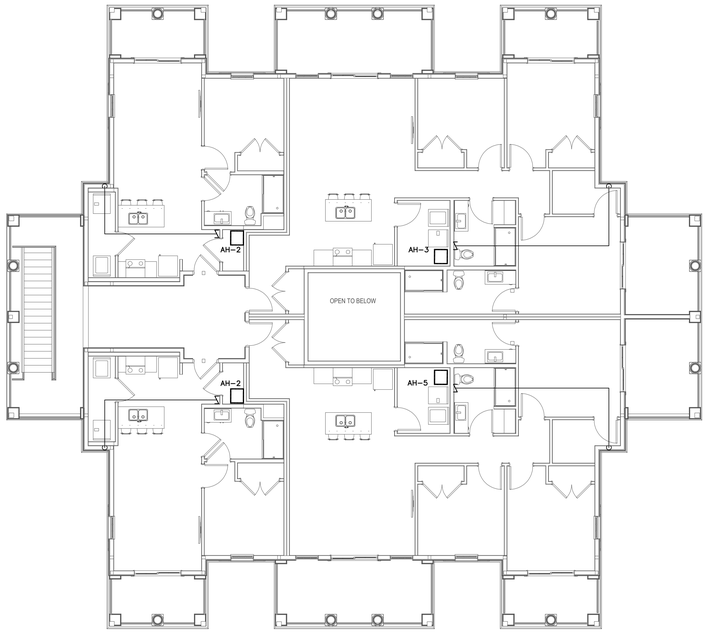
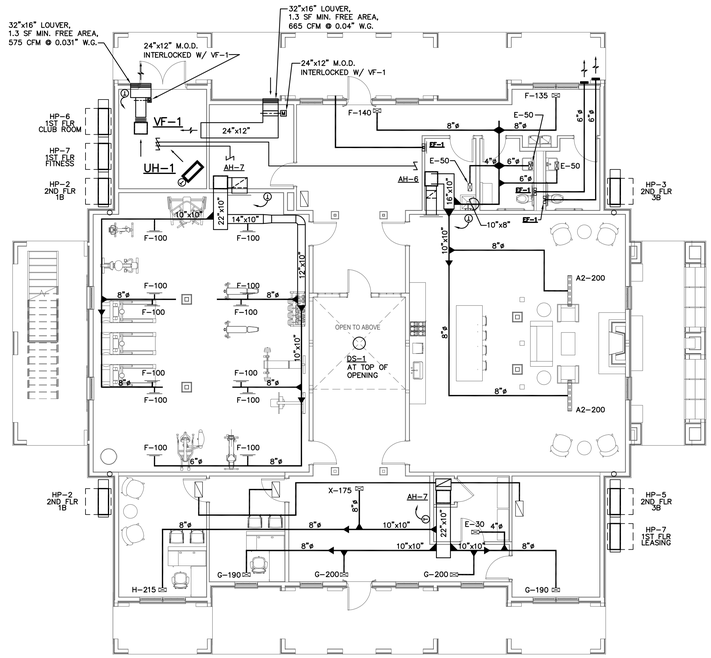


LEVEL 02 HVAC PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING D
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET HXX (TYP.).

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CMHA

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COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 HVAC PLANS

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B. MCFERRIN	B. MCFERRIN		24217

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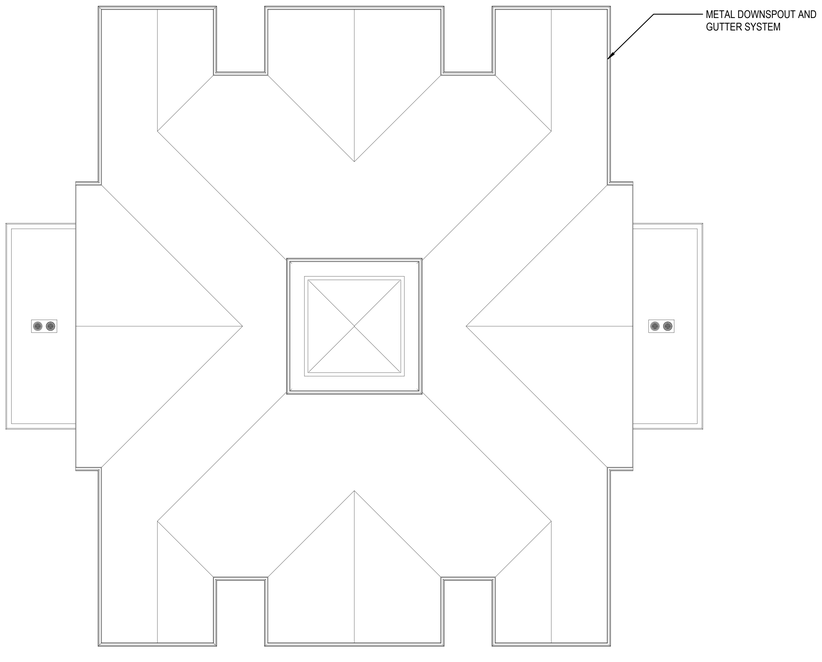

ROOF HVAC PLAN – BUILDING D
SCALE: 1/8"=1'-0"

H108-D-24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
?	?	?	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
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COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - ROOF HVAC PLAN

PROGRESS DRAWING
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05/01/2025

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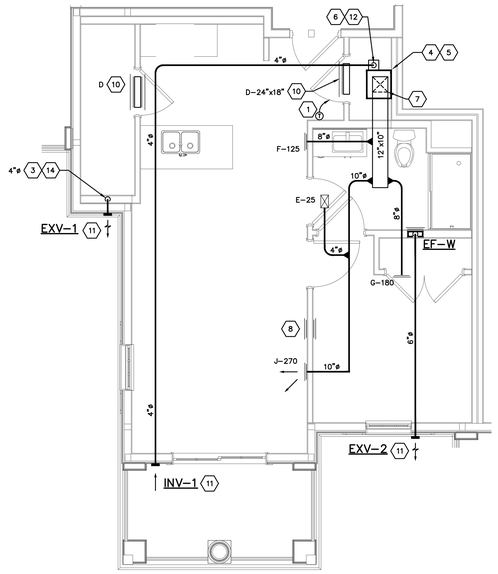
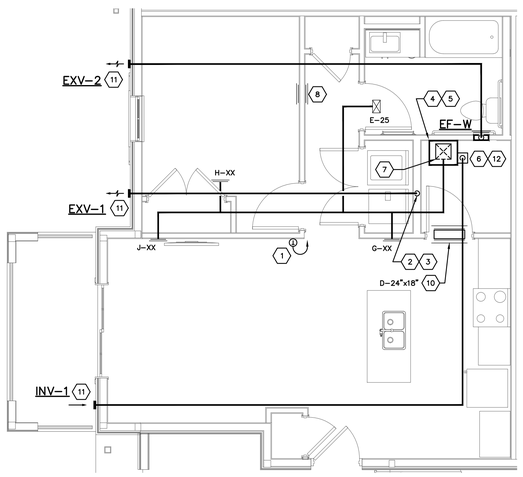
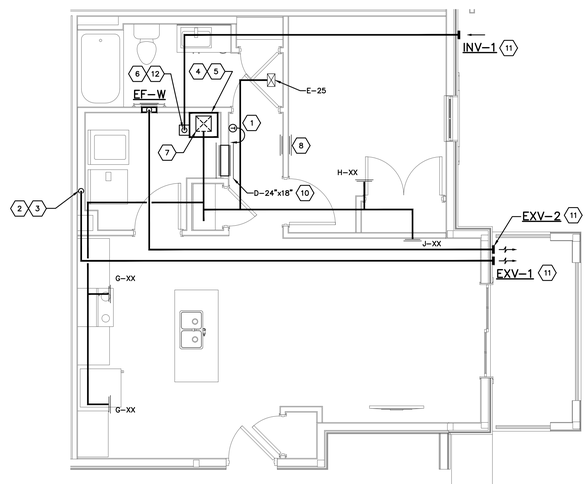


1 BEDROOM CLUBHOUSE
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE A
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE B
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"

CODED NOTES ⬡

1. ELECTRONIC PROGRAMMABLE THERMOSTAT FURNISHED AND WIRED BY HVAC CONTR. MOUNT THERMOSTAT AT 48" A.F.F. EXACT LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
3. DRYER DUCT EQUIVALENT LENGTH IS TO BE PERMANENTLY LABELED WITHIN SIX (6) FEET OF DRYER DUCT CONNECTION.
4. AIR HANDLING UNIT LOCATED ABOVE WATER HEATER. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, DRAIN PIPING, CONDENSATE OVERFLOW SHUT-OFF SWITCH, ETC. PER THE DETAILS ON SHEET H301. REFER TO 1/8" SCALE HVAC DRAWINGS FOR AIR HANDLING UNIT DESIGNATION. MAINTAIN N.E.C. REQUIRED CLEARANCE FOR AIR HANDLING UNIT.
5. ROUTE 3/4" DRAIN LINE FROM AIR HANDLING UNIT DRAIN CONNECTION TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR IN MECHANICAL CLOSET.
6. ELECTRICAL CONTRACTOR WILL PROVIDE RM4 SMOKE ALARM ACCESSORY RELAY IN MECHANICAL CLOSET NEAR AIR HANDLING UNIT. HVAC CONTRACTOR SHALL PROVIDE 24V WIRING BETWEEN RM4 RELAY & OUTSIDE AIR FAN. WIRE RELAY TO SHUT OFF OUTSIDE AIR FAN DURING SMOKE ALARM CONDITION.
7. EXTEND DUCT UP INTO SOFFIT CEILING SPACE.
8. PROVIDE TYPE "D" RETURN AIR GRILLES FOR RETURN AIR TRANSFER THROUGH THE WALL STUD SPACE. THE RETURN GRILLE ON THE LIVING ROOM SIDE SHALL BE 6" ABOVE THE FLOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 6" BELOW THE CEILING.
9. INSULATE ALL BATHROOM EXHAUST & DRYER EXHAUST DUCTS LOCATED WITHIN 10 FT. OF AN EXTERIOR WALL OR ROOF PENETRATION.
10. SLEEVED TRANSFER DUCT WITH RETURN AIR GRILLE ON BOTH SIDES OF WALL. TOP OF GRILLE 2" BELOW CEILING.
11. INSULATE ENTIRE LENGTH OF OUTSIDE AIR DUCTWORK.
12. O.A. DUCT DOWN FROM TRUSS SPACE TO UNIT CONNECTION. PROVIDE CEILING RADIATION DAMPER AT CEILING MEMBRANE PENETRATION. PROVIDE MOTORIZED AND MANUAL DAMPERS IN VERTICAL DROP BELOW CEILING. REFER TO DETAIL ON SHEET H301.
13. PROVIDE TYPE "D" RETURN AIR GRILLES CENTERED ABOVE THE DOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 2" ABOVE THE DOOR FRAME. THE RETURN GRILLE ON THE OPPOSITE SIDE SHALL BE 2" BELOW THE CEILING.
14. DRYER EXHAUST DOWN TO FLOOR/CEILING ASSEMBLY BELOW. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
15. COMBINATION MICROWAVE & RE-CIRCULATING TYPE DOMESTIC KITCHEN HOOD LOCATED ABOVE RANGE BY GENERAL CONTRACTOR.

DUCT LOCATION / STRUCTURAL COORDINATION

A. ALL S.A. DISTRIBUTION DUCTWORK FOR APARTMENT UNITS SHALL BE LOCATED IN THE TRUSS SPACE ABOVE THE FIRE RATED CEILING MEMBRANE.

B. COORDINATE THE EXACT LOCATION & ROUTING OF DUCTS INSIDE THE TRUSS SPACE WITH THE STRUCTURAL FRAMING DRAWINGS. FIELD COORDINATE THE EXACT LOCATION OF DUCTS THAT RUN PERPENDICULAR TO THE TRUSSES WITH THE TRUSS WEB OPENINGS. TRUSSES WILL TYPICALLY BE SPACED AT 24" O.C., EXCEPT WHERE OTHERWISE NOTED ON THE STRUCTURAL FRAMING DRAWINGS.

C. ALL FIELD CUT OPENINGS THROUGH RIM BOARDS SHALL BE MADE IN ACCORDANCE WITH THE STRUCTURE SUPPLIERS GUIDELINES & INSTRUCTIONS. CAREFUL COORDINATION WITH THE STRUCTURE SUPPLIER IS REQUIRED. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF RIM BOARDS.

D. COORDINATE FINAL LOCATIONS OF EXHAUST/INTAKE TERMINALS WITH ARCHITECTURAL ELEVATIONS.

COORDINATION NOTE:

THE HVAC CONTRACTOR SHALL CONFORM TO THE DUCT CONFIGURATION INDICATED ON THIS DRAWING AS CLOSELY AS POSSIBLE. NOTE THAT FIELD COORDINATION WITH OTHER TRADES WILL BE NECESSARY TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATION WITH THE PLUMBING CONTRACTOR WILL BE ESPECIALLY IMPORTANT DUE TO VARIATIONS IN THE SANITARY PIPING CONFIGURATIONS. PROVIDE ADDITIONAL DUCT OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
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COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT HVAC PLANS

H-200-24217.DWG

PRATER
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PROGRESS DRAWING NOT FOR CONSTRUCTION

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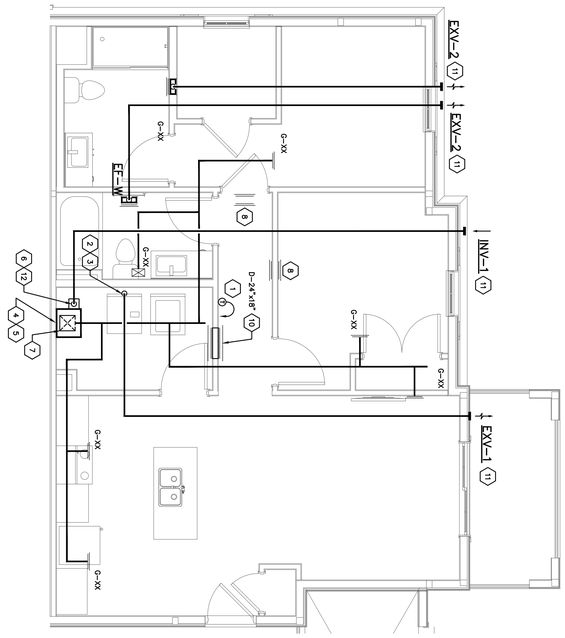
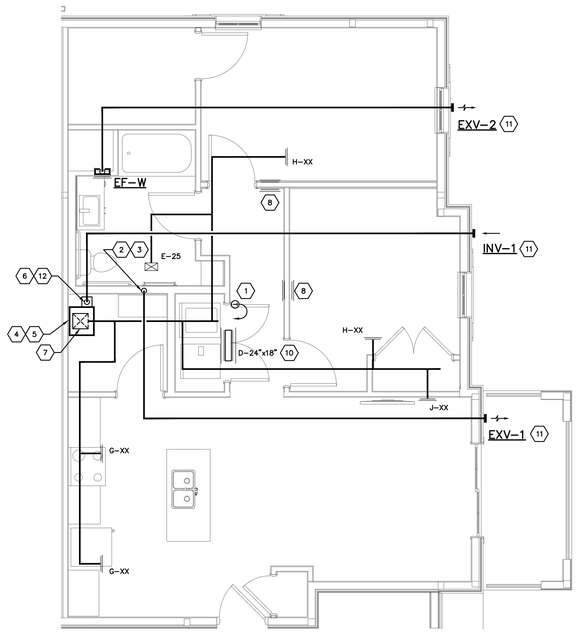
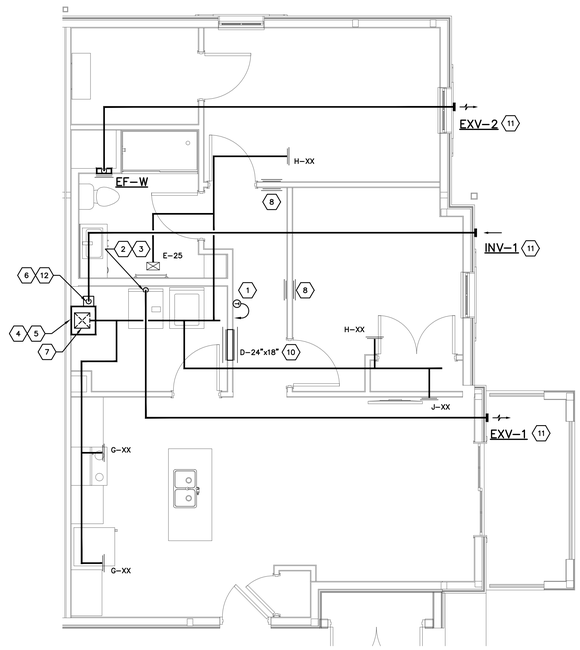


2 BEDROOM 2 BA
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE A
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE B
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. ELECTRONIC PROGRAMMABLE THERMOSTAT FURNISHED AND WIRED BY HVAC CONTR. MOUNT THERMOSTAT AT 48" A.F.F. EXACT LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
3. DRYER DUCT EQUIVALENT LENGTH IS TO BE PERMANENTLY LABELED WITHIN SIX (6) FEET OF DRYER DUCT CONNECTION.
4. AIR HANDLING UNIT LOCATED ABOVE WATER HEATER. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, DRAIN PIPING, CONDENSATE OVERFLOW SHUT-OFF SWITCH, ETC. PER THE DETAILS ON SHEET H301. REFER TO 1/8" SCALE HVAC DRAWINGS FOR AIR HANDLING UNIT DESIGNATION. MAINTAIN N.E.C. REQUIRED CLEARANCE FOR AIR HANDLING UNIT.
5. ROUTE 3/4" DRAIN LINE FROM AIR HANDLING UNIT DRAIN CONNECTION TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR IN MECHANICAL CLOSET.
6. ELECTRICAL CONTRACTOR WILL PROVIDE RM4 SMOKE ALARM ACCESSORY RELAY IN MECHANICAL CLOSET NEAR AIR HANDLING UNIT. HVAC CONTRACTOR SHALL PROVIDE 24V WIRING BETWEEN RM4 RELAY & OUTSIDE AIR FAN. WIRE RELAY TO SHUT OFF OUTSIDE AIR FAN DURING SMOKE ALARM CONDITION.
7. EXTEND DUCT UP INTO SOFFIT CEILING SPACE.
8. PROVIDE TYPE "D" RETURN AIR GRILLES FOR RETURN AIR TRANSFER THROUGH THE WALL STUD SPACE. THE RETURN GRILLE ON THE LIVING ROOM SIDE SHALL BE 6" ABOVE THE FLOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 6" BELOW THE CEILING.
9. INSULATE ALL BATHROOM EXHAUST & DRYER EXHAUST DUCTS LOCATED WITHIN 10 FT. OF AN EXTERIOR WALL OR ROOF PENETRATION.
10. SLEEVED TRANSFER DUCT WITH RETURN AIR GRILLE ON BOTH SIDES OF WALL. TOP OF GRILLE 2" BELOW CEILING.
11. INSULATE ENTIRE LENGTH OF OUTSIDE AIR DUCTWORK.
12. O.A. DUCT DOWN FROM TRUSS SPACE TO UNIT CONNECTION. PROVIDE CEILING RADIATION DAMPER AT CEILING MEMBRANE PENETRATION. PROVIDE MOTORIZED AND MANUAL DAMPERS IN VERTICAL DROP BELOW CEILING. REFER TO DETAIL ON SHEET H301.
13. PROVIDE TYPE "D" RETURN AIR GRILLES CENTERED ABOVE THE DOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 2" ABOVE THE DOOR FRAME. THE RETURN GRILLE ON THE OPPOSITE SIDE SHALL BE 2" BELOW THE CEILING.
14. DRYER EXHAUST DOWN TO FLOOR/CEILING ASSEMBLY BELOW. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
15. COMBINATION MICROWAVE & RE-CIRCULATING TYPE DOMESTIC KITCHEN HOOD LOCATED ABOVE RANGE BY GENERAL CONTRACTOR.

DUCT LOCATION / STRUCTURAL COORDINATION

A. ALL S.A. DISTRIBUTION DUCTWORK FOR APARTMENT UNITS SHALL BE LOCATED IN THE TRUSS SPACE ABOVE THE FIRE RATED CEILING MEMBRANE.

B. COORDINATE THE EXACT LOCATION & ROUTING OF DUCTS INSIDE THE TRUSS SPACE WITH THE STRUCTURAL FRAMING DRAWINGS. FIELD COORDINATE THE EXACT LOCATION OF DUCTS THAT RUN PERPENDICULAR TO THE TRUSSES WITH THE TRUSS WEB OPENINGS. TRUSSES WILL TYPICALLY BE SPACED AT 24" O.C., EXCEPT WHERE OTHERWISE NOTED ON THE STRUCTURAL FRAMING DRAWINGS.

C. ALL FIELD CUT OPENINGS THROUGH RIM BOARDS SHALL BE MADE IN ACCORDANCE WITH THE STRUCTURE SUPPLIERS GUIDELINES & INSTRUCTIONS. CAREFUL COORDINATION WITH THE STRUCTURE SUPPLIER IS REQUIRED. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF RIM BOARDS.

D. COORDINATE FINAL LOCATIONS OF EXHAUST/INTAKE TERMINALS WITH ARCHITECTURAL ELEVATIONS.

COORDINATION NOTE:

THE HVAC CONTRACTOR SHALL CONFORM TO THE DUCT CONFIGURATION INDICATED ON THIS DRAWING AS CLOSELY AS POSSIBLE. NOTE THAT FIELD COORDINATION WITH OTHER TRADES WILL BE NECESSARY TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATION WITH THE PLUMBING CONTRACTOR WILL BE ESPECIALLY IMPORTANT DUE TO VARIATIONS IN THE SANITARY PIPING CONFIGURATIONS. PROVIDE ADDITIONAL DUCT OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT HVAC PLANS

H-201-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MCFERRIN	B. MCFERRIN		24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

H-201

CD PROGRESS SET

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FAN SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON GREENHECK UNLESS OTHERWISE NOTED.
KEY: CENT.–CENTRIFUGAL; PROP.–PROPELLER; F.C.–FORWARD CURVED; B.I.–BACKWARD INCLINE; A.F.–AIR FOIL; A.T.L.–ACROSS THE LINE; VFD–VARIABLE FREQUENCY DRIVE

FAN NO.	LOCATION	FUNCTION	MFGR. MODEL NUMBER	FAN TYPE	WHEEL TYPE & SIZE	CFM	EXT. S.P. "W.G.	R.P.M.	TIP SPEED F.P.M.	OUTLET VELOCITY F.P.M	MAX. SOUND RATING	MOTOR H.P.	BHP REQ'D	VOLT / PHASE	TYPE MOTOR STARTING	DAMPER DRIVE: GRAVITY	MOTOR OPERATED	ADJUST. DIRECT.	REMARKS
EF–W	WALL MOUNTED	APARTMENT BATHROOMS	GREENHECK SP–LP0511–1	LOW PROFILE WALL MTD.	F.C.	50	0.4"	685	1009	555	2.3 SONES	N/A	0.01	115 / 1	A.T.L.	●			● (4) (5)
EF–K	CEILING MOUNTED	APARTMENT KITCHENS	GREENHECK SP–A390–VG	CEILING EXHAUST	B.I. 7.75"	100	0.35"	1040	1654	93	3.5 SONES	1/15	0.02	115 / 1	A.T.L.	●			●
OAF–1	COMMON AREAS MECH. ROOMS	CORRIDOR O.A.	FANTECH FG 6	INLINE SUPPLY	F.C.	115	0.5"	2700	---	---	---	N.A.	72 WATTS	120 / 1	A.T.L.				● (1) (6) (7)
VF–1	CEILING SPACE	POOL ROOM VENT.	GREENHECK CSP–A710	INLINE EXHAUST	F.C.	575	0.3"	1080	2209	1081	3.0 SONES	N.A.	0.16	115 / 1	A.T.L.	●			● (2) (3) (8) (9)
EF–1	CLUBHOUSE	RESTROOM EXHAUST	GREENHECK SP–LP0511–1	LOW PROFILE WALL MTD.	F.C.	50	0.4"	685	1009	555	2.3 SONES	N.A.	0.01	115 / 1	A.T.L.	●			● (4) (5)

(1) SUPPORT FAN FROM STRUCTURE ABOVE OR ADJACENT WALL.
(2) SUPPORT FAN FROM OVERHEAD STRUCTURE W/ RUBBER IN SHEAR VIBRATION ISOLATORS.
(3) FAN TO BE FURNISHED W/ FACTORY MOUNTED VARIABLE SPEED SWITCH FOR BALANCING.
(4) FAN SHALL BE CONTROLLED BY LIGHT SWITCH.
(5) INTEGRAL GRILLE & METAL DAMPER / DUCT CONNECTOR.
(6) FURNISH W/ WC 15 SPEED CONTROL FOR BALANCING. MOUNT SPEED CONTROL TO WALL ADJACENT TO FAN.
(7) HVAC CONTR. SHALL INTERLOCK O.A. FAN W/ AIR HANDLING UNIT SUPPLY FAN. O.A. FAN SHALL OPERATE ONLY WHEN AHU FAN IS RUNNING.
(8) CONTROLLED BY WALL MOUNTED LINE VOLTAGE THERMOSTAT.
(9) ALUMINUM WHEEL MATERIAL, INSULATED HOUSING.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

ITEM	AH–1 / HP–1	AH–2 / HP–2	AH–3 / HP–3	AH–4 / HP–4	AH–5 / HP–5	AH–6 / HP–6	AH–7 / HP–7
AIR HANDLER MANUFACTURER	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT
AIR HANDLER MODEL NUMBER	FMA5X1800AL	FMA5X1800AL	FMA5X1800AL	FMA5X2400AL	FMA5X2400AL	FJ5ANXB24L00	FJ5ANXB36L00
UNIT CONFIGURATION	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW
COIL FACE AREA (SQ. FT.)	2.2	2.2	2.2	2.2	2.2	2.23	2.23
SUPPLY AIR CFM	600	600	600	760	760	800	1200
EXTERNAL STATIC PRESSURE	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
FAN MOTOR HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3
FAN FLA	5	7.5	7.5	5	5	2.9	2.9
ELECTRIC HEATER CAPACITY (KW) 240/208	5.0 / 3.6	7.5 / 5.6	10.0 / 7.2	5.0 / 3.6	10.0 / 7.2	10.0 / 7.2	15.0 / 10.0
MIN. CIRCUIT AMPS (MCA)	24.1	36.3	36.3	24.1	24.1	25.9	39.3
MAX. OVERCURRENT PROTECTION (MOCP)	25	40	40	25	25	30	40
VOLTS/PHASE	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø
HEAT PUMP UNIT MANUFACTURER	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT
MODEL NUMBER	235SAN01800A	235SAN01800A	235SAN01800A	235SAN02400A	235SAN02400A	37MURAQ24AA3	37MURAQ36AA3
NOMINAL TONNAGE	1.5	1.5	1.5	2.0	2.0	2.0	3.0
TOTAL COOLING CAP. MBTU @ AHRI	17.4	17.4	17.4	22.2	22.2	17.2	17.2
SENSIBLE COOLING MBTU @ AHRI	13.1	13.1	13.1	16.3	16.3	13.10	13.10
SYSTEM EER2 / SEER2 @ AHRI	12 / 15.2	12 / 15.2	12 / 15.2	12 / 15.5	12 / 15.5	11.5 / 14.5	11.5 / 14.5
HEATING CAP. MBTU @ 47°F	17.7	17.7	17.7	22.6	22.6	17.4	17.4
COP @ 5°F (FOR FMA) AND @ 47°F (FOR FJ)	2.12	2.12	2.12	2.16	2.16	3.68	3.68
HSPF2	7.8	7.8	7.8	7.8	7.8	7.5	7.5
FAN FLA	0.5	0.5	0.5	0.6	0.6	0.5	0.5
COMPRESSOR LRA	45.1	45.1	45.1	64.4	64.4	45.1	45.1
COMPRESSOR RLA	8.3	8.3	8.3	10.3	10.3	8.3	8.3
MINIMUM CIRCUIT AMPACITY	10.9	10.9	10.9	13.5	13.5	10.9	10.9
MAXIMUM FUSE SIZE	15	15	15	20	20	15	15
VOLTS/PHASE	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø

NOTES:

1. HEATING & COOLING CAPACITIES BASED ON AHRI DATA.
2. ALL INDOOR FAN COIL UNITS SHALL HAVE A SINGLE POINT WIRING CONNECTION, UNLESS NOTED OTHERWISE.
3. PROVIDE ALL OUTDOOR HEAT PUMP UNITS WITH THE FOLLOWING ACCESSORIES FOR LONG LINE LENGTH APPLICATIONS: ACCUMULATOR, COMPRESSOR START ASSIST CAPACITOR AND RELAY, HARD SHUTOFF TXV, CRANKCASE HEATER, LIQUID LINE SOLENOID VALVE AND ALL OTHER ACCESSORIES NECESSARY FOR LONG LINE LENGTH APPLICATIONS.
4. ALL INDOOR UNITS SHALL BE FURNISHED WITH AN ECM TYPE FAN MOTOR.
5. APARTMENTS – FURNISH EACH SPLIT SYSTEM WITH A DIGITAL ELECTRONIC, 7 DAY PROGRAMMABLE, AUTO CHANGEOVER, HARD WIRED THERMOSTAT W/ BUILT IN CYCLE PROTECTOR.
6. EACH FAN COIL UNIT SHALL BE FURNISHED W/ A FILTER RACK CAPABLE OF HOUSING 1" THICK FILTERS.
7. ALL APARTMENT FAN COIL UNITS SHALL BE WALL MOUNT TYPE FURNISHED W/ WALL MOUNT HARDWARE & FRONT RETURN AIR GRILLE PANEL.
8. TOTAL COOLING CAPACITY SHALL NOT BE DERATED BY MORE THAN 5% DUE TO A 40 FT. ELEVATION DIFFERENCE BETWEEN INDOOR & OUTDOOR UNITS & A MAX. EQUIVALENT LENGTH OF 150 FT.
9. OUTDOOR UNITS SHALL BE INSTALLED AS DESCRIBED IN SPECIFICATION SECTION 23 62 14.
10. VERTICAL INDOOR UNITS SHALL BE INSTALLED PER THE SPLIT SYSTEM AIR HANDLING UNIT DETAIL ON SHEET HX.XX.
11. REFER TO REFRIGERANT PIPING DETAILS ON SHEET HX.XX.
14. COMMON AREAS – SPLIT SYSTEMS SERVING CORRIDORS, AMENITY AREAS, LOBBIES, ADMINISTRATIVE SPACES, ETC. SHALL BE CONTROLLED BY AN ECOBEE SMART THERMOSTAT FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.

HVAC NOTES

1. DUCT LAYOUTS ARE BASED ON COORDINATION WITH PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND OTHER TRADES TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. CAREFUL COORDINATION BETWEEN ALL TRADES WILL BE REQUIRED ON THE JOB SITE TO ATTAIN THESE CEILING HEIGHTS. PROVIDE ADDITIONAL OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS.
2. DUCT LAYOUT IS ONLY SCHEMATIC, EXACT LOCATION OF PIPES AND DUCTS TO BE COORD. ON JOB W/BLDG. STRUCTURE, AND WORK OF OTHER CONTRS.
3. INSTALL BALANCING DAMPERS AS SHOWN AND AS REQ'D FOR PROPER BALANCING OF AIR HANDLING SYSTEMS. REFER TO THE SPECIFICATIONS FOR AIR BALANCING REQUIREMENTS.
4. THERMOSTATS SHALL BE MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATIONS WITH THE CONSTRUCTION MANAGER.
5. INSTALL ALL EQUIPMENT W/ CODE REQUIRED CLEARANCE IN FRONT OF ALL ELECTRICAL AND CONTROL PANELS.
6. ALL DUCTS AND PIPES AB. CLG. UNLESS OTHERWISE NOTED.
7. NO DUCTWORK, PIPING OR EQUIPMENT MAY BE LOCATED AB. ELEC. OR TELE. EQUIP.
8. MOUNT CABINET UNIT HEATERS W/ BTM. 8" AB. FLR., UNLESS OTHERWISE NOTED.
9. ALL DUCTS IN APARTMENT UNITS SHALL BE INSTALLED WITH FLAT SLIP TYPE CONNECTORS TO MINIMIZE DUCT HEIGHTS.
10. NOTIFY GEN. CONTR. OF SIZE AND LOCATION OF ALL RECESSES AND OPNGS. REQ'D FOR HVAC WORK.
11. FLASHING AND COUNTERFLASHING AT ROOF DUCT PENETRATIONS BY HVAC CONTR.
12. RUN ALL DRAIN LINES INDIRECT TO NEAREST FLOOR DRAIN OR HUB DRAIN.
13. THE HVAC CONTR. IS RESPONSIBLE FOR FIRESTOPPING AT ALL HVAC RELATED PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLR. PLANS FOR LOCATIONS OF ALL RATED STRUCTURES. REFER TO THIS SHEET FOR FIRESTOPPING DETAILS.
14. ALL DUCTWORK WITH FIRE OR FIRE/SMOKE DAMPERS SHALL BE LABELED W/ 1/2" HIGH LETTERS.
15. ALL FIRE DAMPERS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION DETAILS.
16. PROVIDE AIRTIGHT A.D. IN DUCTS ADJACENT TO ALL FIRE DAMPERS, CEILING RADIATION DAMPERS AND ELSEWHERE AS REQUIRED TO ACCESS DUCT ACCESSORIES. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE AN ACCESS DOOR WHERE DUCT ACCESS DOORS ARE ABOVE DRYWALL CEILINGS. THE HVAC CONTRACTOR SHALL COORDINATE ALL LOCATIONS REQUIRING CEILING ACCESS WITH THE GENERAL TRADES CONTRACTOR.
17. FLEXIBLE DUCTWORK MAY BE USED AS TERMINAL DUCT ONLY, WITH LENGTHS NOT TO EXCEED 14 FT. & NO MORE THAN ONE (1) 90° ELBOW REFER TO SPECIFICATION SECTION 23 31 13.13.
18. ALL DUCT PENETRATIONS THRU STRUCTURAL BEARING WALLS SHALL BE RIGID DUCT. FLEXIBLE DUCTWORK SHALL NOT PENETRATE STRUCTURAL BEARING WALLS. FIRESTOP EACH DUCT PENETRATION. REFER TO THE FIRESTOPPING DETAILS.

AIR TERMINAL SCHEDULE

ROUND AND SQUARE DEVICES: TYPE OF OUTLET — A – 8 – 300 — AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)
SIZE OF OUTLET (NECK SIZE DIAMETER FOR DIFFUSERS)

LINEAR DIFFUSERS: TYPE OF OUTLET — C4 – 300 — AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)
NUMBER OF SLOTS

TYPE	DESCRIPTION
A	LINEAR SUPPLY AIR DIFFUSER, SFC. MTD., PRICE MODEL SDS75, 3/4" SLOTS, 4'–0" LONG UNLESS OTHERWISE NOTED. FURNISH W/ MODEL SDBI INSULATED PLENUM W/ INLET CONNECTION SIZE EQUAL TO BRANCH DUCT SIZE.
B	RETURN/EXHAUST AIR GRILLE, SURFACE MOUNTED, PRICE MODEL 530: 12"x12" UNLESS OTHERWISE NOTED. FURNISH WITH BLADES PARALLEL TO "LONG" DIMENSION.
C	SUPPLY AIR DIFFUSER, LAY–IN, 24"x24", PRICE MODEL SCDA: DIFFUSERS SHALL HAVE ADJUSTABLE HORIZONTAL–TO–VERTICAL PATTERN WITH EQUALIZING GRID
D	RETURN/TRANSFER AIR GRILLE, SURFACE MOUNTED, AIRMATE SERIES 170, 14"x8" UNLESS OTHERWISE NOTED.
E	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 8"x4" UNLESS OTHERWISE NOTED.
F	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 10"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
G	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 12"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
H	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 14"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
J	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 14"x8" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.

NOTES:

1. PROVIDE A SHEET METAL PLENUM ABOVE/BEHIND EACH REGISTER AND GRILLE FOR MAKING A CONNECTION TO THE BRANCH DUCT.
2. COORDINATE THE GRID FACE DIMENSION OF THE CEILING SUSPENSION SYSTEMS WITH THE GENERAL CONTRACTOR. PROVIDE NARROW TEE TYPE DEVICES WHERE REQUIRED.

CABINET UNIT HEATER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED.

UNIT NO.	LOCATION	FRAME TYPE	MFGR. MODEL NUMBER	KW	MBH	AMPS	VOLT / PHASE	REMARKS
CUH–1	CLUBHOUSE LOBBY	SURFACE MOUNT	AWH4506F	4.8	16.4	23.1	240 / 1	(1) (2)

(1) FURNISH WITH INTEGRAL THERMOSTAT.
(2) FURNISH WITH CIRCUIT BREAKER.

UNIT HEATER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED.

UNIT NO.	ROOM NO.	MFGR. MODEL NUMBER	KW	MBH	AMPS	HP	RPM	CFM	VOLT / PHASE	REMARKS
UH–1	008	MUH–05–81	5.0	17.0	24.0	1/100	1600	350	240 / 1	(1) (2)

(1) FURNISH WITH INTEGRAL THERMOSTAT.
(2) FURNISH WITH CEILING MOUNTING BRACKET

EQUIPMENT NOTES

EXV–1
DEFLECTO MODEL HS4B BROWN VENT HOOD W/ OPERABLE LOUVERS & 4"ø DUCT CONNECTION.

EXV–2
DEFLECTO MODEL HSB4B BROWN VENT HOOD W/ OPERABLE LOUVERS, BIRD BARS & 4"ø DUCT CONNECTION.

INV–1
DEFLECTO MODEL HSM6B BROWN FRESH AIR INTAKE HOOD W/ FIXED LOUVERS, BIRD GRID & 6"ø DUCT CONNECTION.

DS–1
AIRIUS DESIGNER SERIES 60–P4 DESTRATIFICATION FAN. PROVIDE CONTROLS WIRING, DIAL, AND MOUNTING HARDWARE. COORDINATE COLOR/FINISH WITH ARCHITECT.

ATTACH INTAKE & VENT TERMINALS TO THE EXTERIOR WALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SEAL ALL DUCT PENETRATIONS THROUGH EXTERIOR WALLS WEATHER TIGHT.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
—A—	AIR LINE
—COMB—	COMBINED SEWER
—D—	DRAIN LINE
—F—	FIRE PROTECTION LINE
—HG—	HOT GAS LINE
—LIQ—	LIQUID LINE
—SAN—	SANITARY LINE
—STM—	STORM LINE
—SUCT—	SUCTION LINE
—TW—	DOMESTIC TEMPERED WATER
—V—	VENT LINE
—W—	WATER SERVICE LINE
—180°—	DOMESTIC 180°F WATER
	RETURN RISER
	SUPPLY RISER
	PENDANT TYPE SPRINKLER HEAD
	UPRIGHT TYPE SPRINKLER HEAD
—C	P–TRAP (PLAN VIEW)
	AIR VENT – PLAN VIEW
	CAPPED LINE
	HOSE BIBB
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	COLD AIR HIGH PRESSURE DUCT
	HOT AIR HIGH PRESSURE DUCT
	RISE OR DROP
	PIPE BRANCH TOP CONNECTION
	PIPE BRANCH BOTTOM CONNECTION
	PIPE ANCHOR
	PIPE FLANGES
	PIPE UNION
	PIPE GUIDE
	FLEXIBLE PIPE CONNECTION
	FLEXIBLE DUCT
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE WITH NIPPLE & CAP
	PLUGGED TEE
	Y–TYPE STRAINER
	PETE'S PLUG
	COMB. BALANCE & STOP VALVE
	BALL VALVE
	BALL VALVE W/MEMORY STOP
	GATE VALVE (SCREWED BODY)
	DRAIN VALVE WITH HOSE END
	GLOBE VALVE
	GATE VALVE (FLANGED BODY)
	AUTO CONTROL VALVE
	SOLENOID VALVE
	CHECK VALVE
	GAS COCK OR BALANCE VALVE
	METERED BALANCE VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE W/MEMORY STOP
	FLOOR OR AREA DRAIN
	THERMOSTAT
	TEMPERATURE SENSOR
	FLOW SWITCH
	THERMOMETER
	CURB BOX & VALVE
	CONNECT TO EXISTING
	THRU FLOOR AS SHOWN
	JANITOR OR SHOWER TRIM
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	R.A., O.A., OR EXH. DUCT UP
	R.A., O.A., OR EXH. DUCT DOWN
ø	ROUND DUCT
	FLAT OVAL DUCT
	SPIN–IN FITTING WITH BALANCE DAMPER
	ELBOW WITH TURNING VANES
	FIRE DAMPER
	MAN. DAMPER
	ACCESS DOOR
	45° BOOT BRANCH TAKEOFF

MECHANICAL ABBREVIATIONS

AB.	ABOVE	H.B.	HOSE BIBB
A.D.	ACCESS DOOR	HTR.	HEATER
A.F.F.	ABOVE FINISHED FLOOR	HTG.	HEATING
APPROX.	APPROXIMATELY	H & A/C	HEATING & AIR CONDITIONING
AUTO. CONT.	AUTOMATIC CONTROL	INV. ELEV.	INVERT ELEVATION
BTM.	BOTTOM	J. R.	JANITOR RECEPTOR
BLDG.	BUILDING	LAV.	LAVATORY
CAB.	CABINET	MAN. DPR.	MANUAL DAMPER
CAP.	CAPACITY	M. H.	MANHOLE
C.B.	CATCH BASIN	MFR.	MANUFACTURER
C.I.	CAST IRON	MECH.	MECHANICAL
CLG.	CEILING	M. A.	MIXED AIR
CONC.	CONCRETE	MTD.	MOUNTED
C.O.	CLEAN OUT	NOM.	NOMINAL
CONN.	CONNECT	OPNG.	OPENING
CONTR.	CONTRACTOR	O.A.	OUTSIDE AIR
CONT.	CONTINUATION	P.C.	PLUMBING CONTRACTOR
COORD.	COORDINATE	PLBG.	PLUMBING
DTL.	DETAIL	PRESS.	PRESSURE
DIA.	DIAMETER	PROP.	PROPELLER
DIFF.	DIFFUSER	REG.	REGISTER
DISCH.	DISCHARGE	RHC.	REHEAT COIL
DN.	DOWN	REQD.	REQUIRED
D.S.	DOWNSPOUT	REL.	RELIEF
ELEC.	ELECTRICAL	R.A.	RETURN AIR
E.W.C.	ELECTRIC WATER COOLER	R.D.	ROOF DRAIN
ELEM.	ELEMENT	RM.	ROOM
ELEV.	ELEVATION	SCHED.	SCHEDULE
EXH	EXHAUST	S.D.	SHOWER DRAIN
EXIST.	EXISTING	SHT.MTL.	SHEET METAL
FT. HD.	FEET OF HEAD	S.I.	SURFACE INLET
FIN. RAD.	FINNED RADIATION	S.S.	SERVICE SINK
F. DPR.	FIRE DAMPER	STAT.	THERMOSTAT
F. E.	FIRE EXTINGUISHER	S.A.	SUPPLY AIR
FLEX.	FLEXIBLE	TEMP.	TEMPERATURE
FLR.	FLOOR	TYP.	TYPICAL
F.D.	FIRE DAMPER	T.C.C.	TEMP. CONTROL CONTRACTOR
FURN.	FURNISH	VIB. ISOL.	VIBRATION ISOLATOR
GA.	GAGE	W.	WASTE
GEN.	GENERAL	W/	WITH
GR.	GRILLE		

DRYER VENTING NOTES

1. EXHAUST DUCTS SHALL BE ASSEMBLED SO THE INTERIOR SURFACES ARE SMOOTH W/ JOINTS RUNNING IN THE DIRECTION OF AIRFLOW SO AS TO PREVENT ACCUMULATION OF LINT INSIDE THE DUCT. EACH JOINT SHALL BE SECURED WITH METAL FOIL TAPE. DO NOT USE SCREWS OR RIVETS.
2. CLOTHES DRYER EXHAUST DUCTS SHALL BE CONSTRUCTED OF RIGID GALVANIZED STEEL, MINIMUM 26 GAUGE THICKNESS – DO NOT UTILIZE FLEXIBLE DUCTWORK FOR CLOTHES DRYER EXHAUST DUCTS, EXCEPT FLEXIBLE METAL DUCT IS PERMITTED IN THE UTILITY ROOM, OUTSIDE OF THE WALL CONSTRUCTION FOR FINAL CONNECTION TO DRYER OUTLET.
3. EXHAUST DUCTS SHALL BE SUPPORTED AT 4 FT INTERVALS AND SECURED IN PLACE. THE INSERT END OF EACH DUCT SECTION SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
4. PROTECTIVE SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1–1/4" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. PROTECTIVE SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062" AND EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.
5. DRYER EXHAUST DUCT ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF 4".
6. REFER TO DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL VENTING REQUIREMENTS.
7. THE DEVELOPER IS FURNISHING DRYERS WITH VENTING CAPACITIES AS NOTED ABOVE. THIS CONTRACTOR SHALL INSTALL PERMANENTLY LABELED SIGNAGE WITHIN SIX (6) FEET OF THE DRYER DUCT CONNECTION. THE SIGNAGE SHALL STATE THE DRYER DUCT LENGTH & NUMBER OF ELBOWS PER THE AS–BUILT CONDITION FOR EACH UNIT SO THAT REPLACEMENT APPLIANCES WITH APPROPRIATE VENTING CAPACITIES CAN BE PROVIDED AS NEEDED IN THE FUTURE.
8. HVAC CONTRACTOR SHALL CAREFULLY COORDINATE ROUTING OF DRYER EXHAUST DUCTS TO MINIMIZE OFFSETS & THE RESULTING OVERALL EQUIVALENT VENT LENGTH. COORDINATE W/ OTHER TRADES SO THAT INSTALLATION OF THE DRYER EXHAUST DUCTWORK IS GIVEN PRECEDENCE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
HVAC SCHEDULES

H300–24217.DWG

PRATER
Engineering Associates, Inc.
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(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MCFERRIN	B. MCFERRIN		24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

H300

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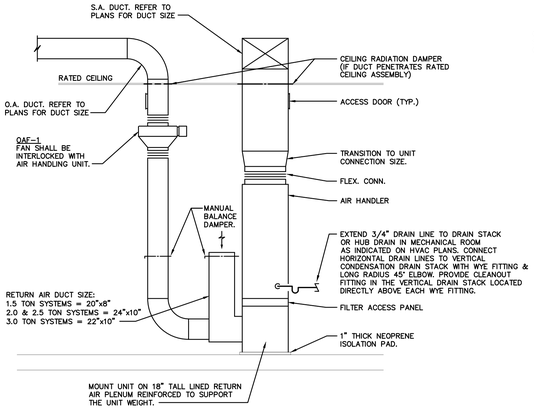
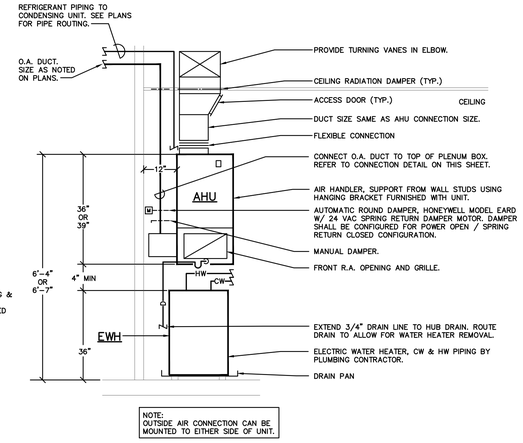


COMMON CORRIDOR SPLIT SYSTEM AHU DETAIL
SCALE: 1/2"=1'-0"

SEQUENCE OF OPERATION FOR O.A. DUCT AUTOMATIC DAMPER:

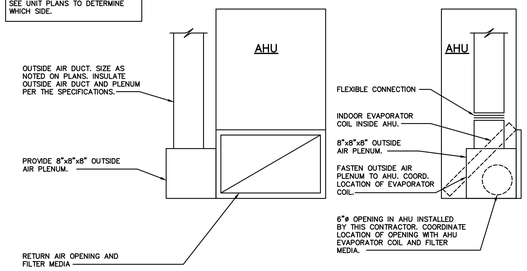
- DAMPER SHALL BE CLOSED WHEN THE UNIT SUPPLY FAN IS OFF.
- DAMPER SHALL OPEN WHEN THE UNIT SUPPLY FAN IS ON.



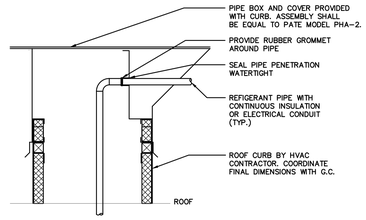
NOTE:
OUTSIDE AIR CONNECTION CAN BE MOUNTED TO EITHER SIDE OF UNIT.

APARTMENT SPLIT SYSTEM MECHANICAL CLOSET DETAIL
SCALE: 1/2"=1'-0"

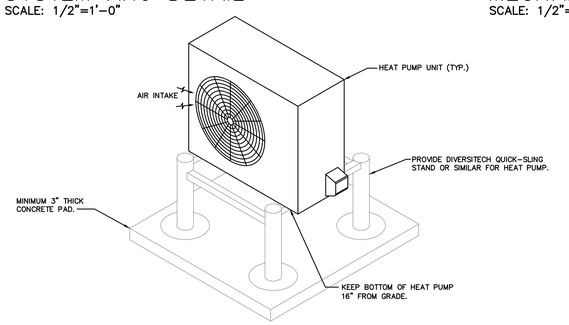
NOTE:
OUTSIDE AIR CONNECTION CAN BE MOUNTED TO EITHER SIDE OF UNIT. SEE UNIT PLANS TO DETERMINE WHICH SIDE.



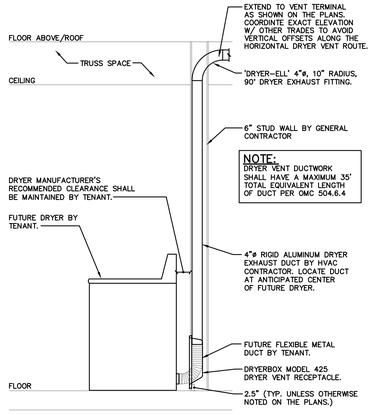
APARTMENT AIR HANDLING UNITS OUTSIDE AIR/AHU CONNECTION DETAIL
N.T.S.



PIPE CURB DETAIL
SCALE: N.T.S.



HEAT PUMP UNIT MOUNTING DETAIL
N.T.S.

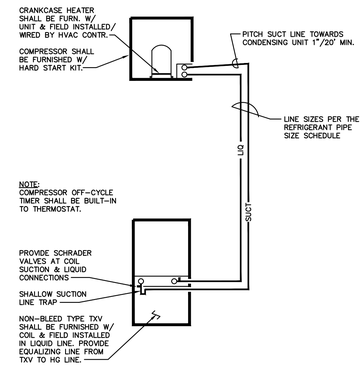


NOTE:
DRYER VENT DUCTWORK SHALL HAVE A MAXIMUM 35' TOTAL EQUIVALENT LENGTH OF DUCT PER OMC 504.6.4

DRYER EXHAUST ROUGH-IN DETAIL
SCALE: N.T.S.

PIPE SIZE SCHEDULE			
TONS	LINE SIZE		INDOOR UNIT LOCATION
	SUCTION	LIQUID	
1.5	5/8"	3/8"	ALL FLOORS
2.0	3/4"	3/8"	ALL FLOORS
2.5	3/4"	3/8"	ALL FLOORS
3.0	3/4"	3/8"	ALL FLOORS

NOTE:
REFRIGERANT PIPE SIZING SHALL BE COORDINATED WITH THE MANUFACTURER OF THE UNITS BEING PURCHASED.

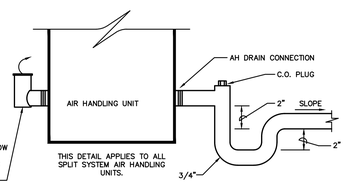


OUTDOOR UNIT ABOVE INDOOR UNIT

DUCTED SPLIT SYSTEMS REFRIGERANT PIPING DETAILS
SCALE: N.T.S.

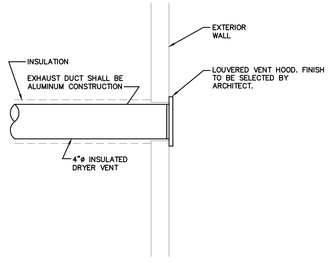
NOTES:

1. ALL DRAIN LINES SHALL BE TRAPPED PER THIS DETAIL.
2. EXTEND A 3/4" DRAIN LINE FROM EACH AIR HANDLING UNIT PRIMARY DRAIN CONNECTION TO THE HUB DRAIN LOCATED IN THE SAME ROOM OR ELSEWHERE AS NOTED ON THE DRAWINGS. TERMINATE PRIMARY DRAIN LINE INDIRECT TO HUB DRAIN PROVIDED BY PLUMBING CONTR.
3. HVAC CONTRACTOR SHALL FURNISH, INSTALL & WIRE A LOW VOLTAGE A/C CONDENSATE OVERFLOW SHUT-OFF SWITCH. SWITCH SHALL BE INSTALLED IN THE UNIT SECONDARY DRAIN OUTLET & WIRED TO SHUT OFF THE AIR HANDLER IN THE EVENT OF A PRIMARY DRAIN LINE MALFUNCTION.

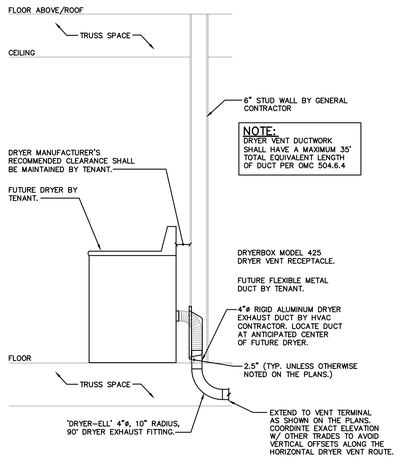


THIS DETAIL APPLIES TO ALL SPLIT SYSTEM AIR HANDLING UNITS.

AIR HANDLING UNIT CONDENSATION DRAIN SYSTEMS
SCALE: N.T.S.



DRYER EXHAUST TERMINATION DETAIL
SCALE: N.T.S.



NOTE:
DRYER VENT DUCTWORK SHALL HAVE A MAXIMUM 35' TOTAL EQUIVALENT LENGTH OF DUCT PER OMC 504.6.4

DRYER EXHAUST ROUGH-IN DETAIL TOP FLOOR APPLICATION
SCALE: N.T.S.

H301-24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MCFERRIN	B. MCFERRIN		24217

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
HVAC DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

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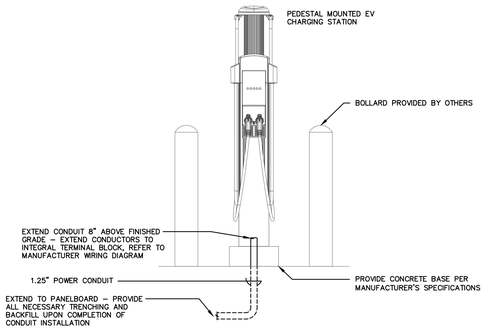
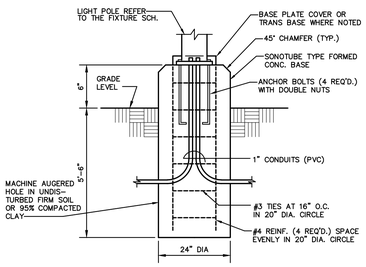
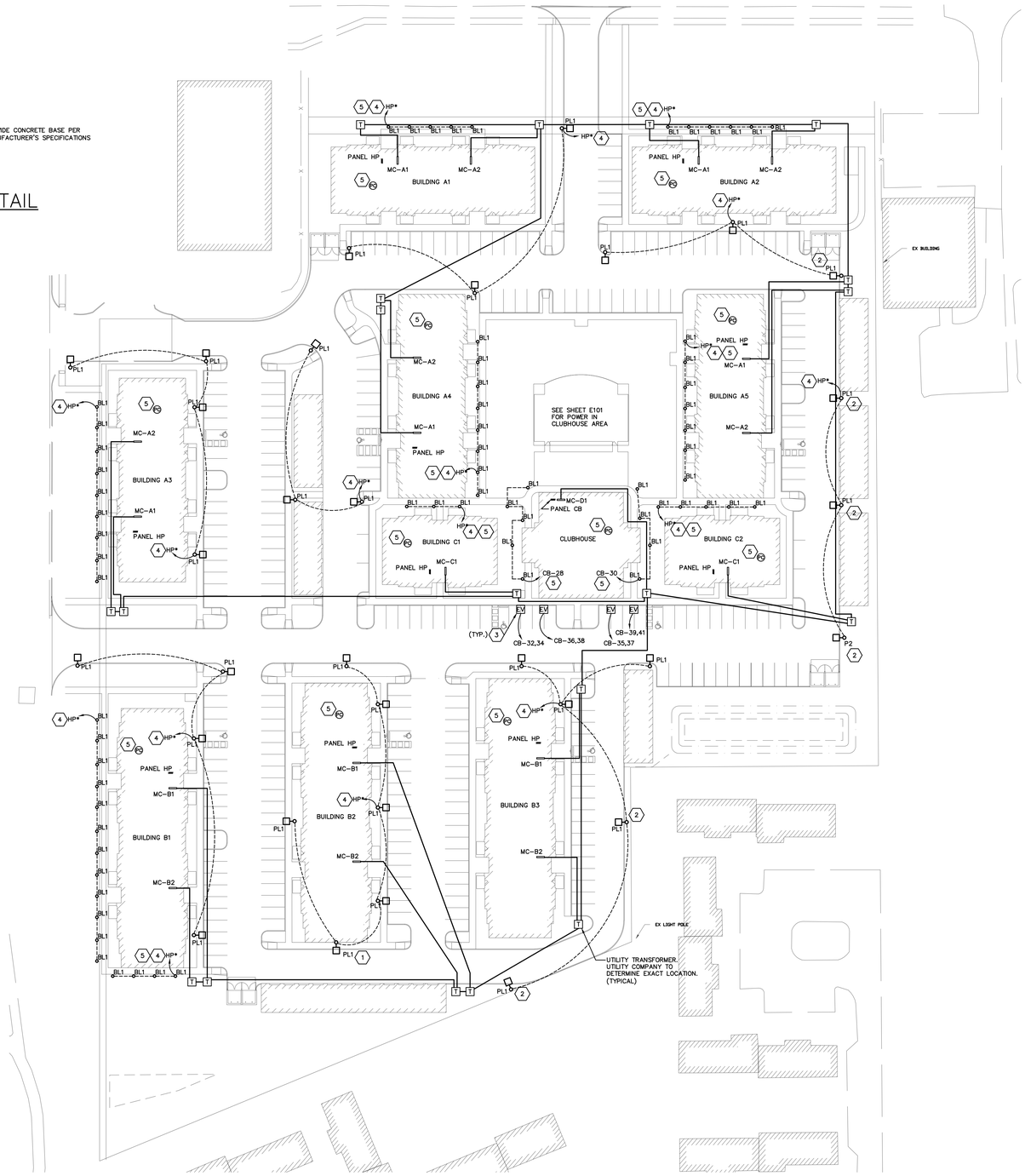


EV CHARGER ROUGH–IN DETAIL
SCALE: NONE



POLE BASE DETAIL
SCALE: NONE



ELECTRICAL SITE PLAN
SCALE: 1"=40'–0"

GENERAL NOTES

A. COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO BIDDING. THE ELECTRICAL SITE PLAN IS DIAGRAMMATIC ONLY AND REPRESENTS GENERAL LOCATIONS OF EQUIPMENT AND UTILITY SPECIFICATIONS. THE SEPARATE UTILITY COMPANIES SHALL PROVIDE DETAILED SPECIFICATIONS AND EQUIPMENT SIZES UPON REQUEST.

B. THE ELECTRICAL SITE PLAN DOES NOT SHOW ALL EXISTING UTILITIES, EXISTING UNDERGROUND EQUIPMENT, OR NEW UNDERGROUND SERVICES. THIS CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO THE START OF WORK, PRIOR TO EXCAVATING. LOCATE ALL UNDERGROUND SERVICES AND CLEARLY IDENTIFY LOCATIONS.

C. COORDINATE WITH UTILITY COMPANY TO EXTEND THE PRIMARY CONDUCTORS FROM THE EXISTING PRIMARY UTILITY EQUIPMENT TO THE NEW POWER COMPANY TRANSFORMERS.

D. PAD MOUNTED TRANSFORMERS PROVIDED AND INSTALLED BY UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD IN COMPLIANCE WITH THE POWER COMPANY SPECIFICATIONS.

E. WIRING TO ALL SITE LIGHTING SHOWN ON THIS SHEET SHALL BE MINIMUM (2) #8 AND (1) #8 GROUND IN 1" CONDUIT FOR ENTIRE LENGTH OF CIRCUIT.

F. ALL MEP CONTRACTORS SHALL CAREFULLY COORDINATE THE FINAL LOCATION OF LOUVERS, EXHAUST TERMINATIONS, LIGHT FIXTURES, HEAT PUMP CONDENSING UNITS, GAS METERS, METER CENTERS, AND TELEPHONE/CABLE BOXES WITH THE ARCHITECT AND OWNER REPRESENTATIVE. SEE ARCHITECTURAL ELEVATIONS AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

G. SEE SHEET E109–G FOR ENLARGED GARAGE PLANS.

CODED NOTES ⬡

1. WALL MOUNT FIXTURE AT 25'–0" A.F.F.
2. PROVIDE POLE FIXTURE WITH HOUSE SIDE SHIELD TO PREVENT LIGHT SPILLAGE ONTO ADJACENT PROPERTIES.
3. PROVIDE 1.25" CONDUIT FOR EACH EV CHARGER BRANCH CIRCUIT. COORDINATE FINAL LOCATION WITH OWNER REPRESENTATIVE AND CIVIL ENGINEER PRIOR TO ROUGH–IN. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
4. CIRCUIT EXTERIOR LIGHTING CIRCUIT TO NEAREST BUILDING HOUSE PANEL "HP". SEE HP PANEL SCHEDULE ON SHEET E–302.
5. RUN CIRCUIT THROUGH EXTERIOR PHOTOCELL FOR AUTOMATIC CONTROL. PROVIDE EXTERIOR LIGHTING PHOTOCELL TO CONTROL EXTERIOR FIXTURES, EQUAL TO PRECISION #ST–15. MOUNT HIGH ON THE NORTH SIDE OF THE BUILDING FOR MAXIMUM EXPOSURE TO SUN AND OUT OF SITE FROM PUBLIC. COORDINATE FINAL LOCATION WITH THE ARCHITECT PRIOR TO ROUGH–IN

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL SITE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

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E100

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E100–24217.DWG

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Engineering Associates, Inc.
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Dublin, Ohio 43016
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FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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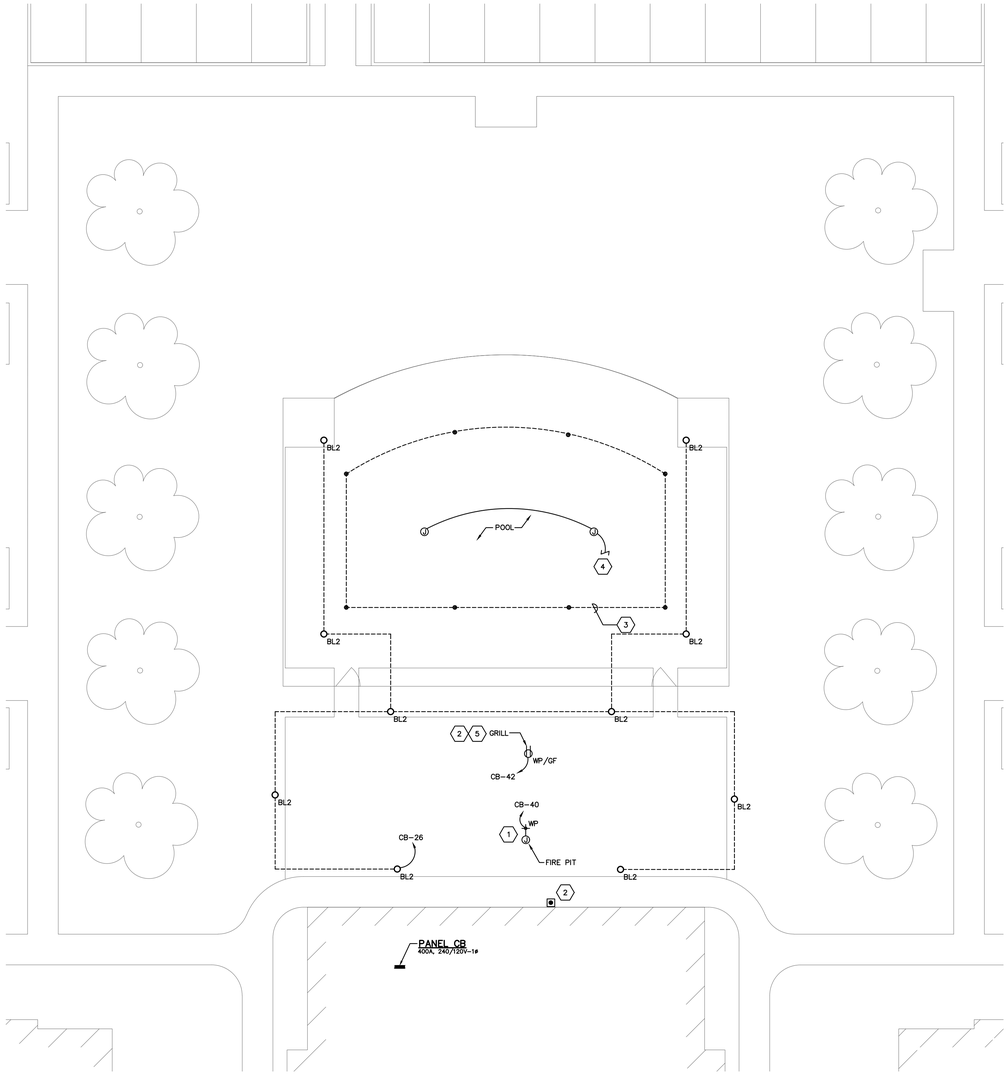
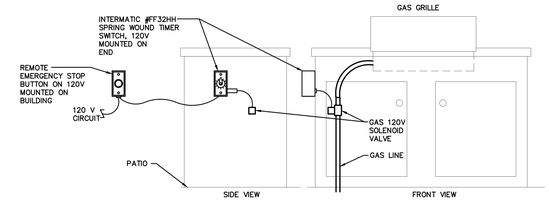


ELECTRICAL CLUBHOUSE PLAN
SCALE: 1"=10'-0"



GAS GRILL EM SHUTOFF
SCALE: NONE

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

H. COORDINATE ALL EXTERIOR LIGHT FIXTURE LOCATIONS BY THE POOL WITH THE LANDSCAPE CONTRACTOR PRIOR TO ROUGH-IN. SEE LANDSCAPE PLANS FOR MORE DETAILS.

I. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

J. REFER TO NEC 680.26 FOR REQUIREMENTS ON POOL GROUNDING AND BONDING.

CODED NOTES ⬡

1. PROVIDE 120V CONNECTION AND WEATHERPROOF DISCONNECT SWITCH FOR FIRE PIT. COORDINATE FINAL REQUIREMENTS WITH MANUFACTURER AND LOCATION OF SWITCH WITH OWNER PRIOR TO ROUGH-IN. EXTEND WIRING TO EMERGENCY SHUT-OFF BUTTON.
2. PROVIDE EPO PUSH-BUTTON EQUAL TO STI TO TURN OFF SOLENOID VALVE. EXTEND CIRCUIT FOR ALL GAS EQUIPMENT INCLUDING FIRE PITS AND GAS GRILLS TO PUSH-BUTTON. COORDINATE FINAL LOCATION OF EPO BUTTON WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE A POOL DECK GROUNDING SYSTEM. PROVIDE A PERIMETER SURFACE BOND 3' BEYOND THE INSIDE WALL OF THE POOL AND ATTACHED TO THE POOL REINFORCING STEEL OR COPPER CONDUCTOR GRID AT A MINIMUM OF FOUR POINTS EVENLY SPACED AROUND THE POOL PERIMETER. REFER TO NEC 680.26(B)(2) FOR BONDING REQUIREMENTS.
4. PROVIDE 120V CONNECTION WITH GROUND FAULT PROTECTION TO POOL LIGHTS. EXTEND CIRCUIT TO UNDERWATER LIGHTS IN POOL. COORDINATE FINAL CONNECTIONS WITH POOL CONTRACTOR.
5. SEE GAS GRILL EM SHUTOFF DETAIL ON THIS SHEET FOR MANUAL SHUTOFF OF GAS EQUIPMENT.

LINE TYPE LEGEND

———————— LINE TYPE INDICATES NEW ELECTRICAL EQUIPMENT/DEVICES TO BE PROVIDED.

- - - - - - - - - - LINE TYPE INDICATES BELOW GROUND ELECTRICAL WIRING

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL CLUBHOUSE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E101

CD PROGRESS SET

E101-24217.DWG

PRATER
Engineering Associates, Inc.
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Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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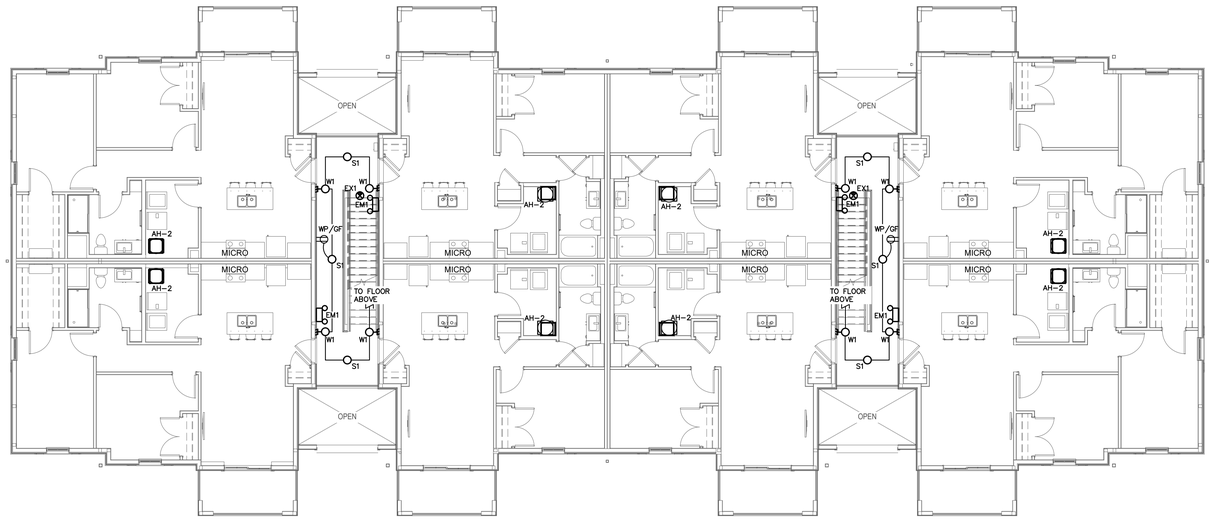
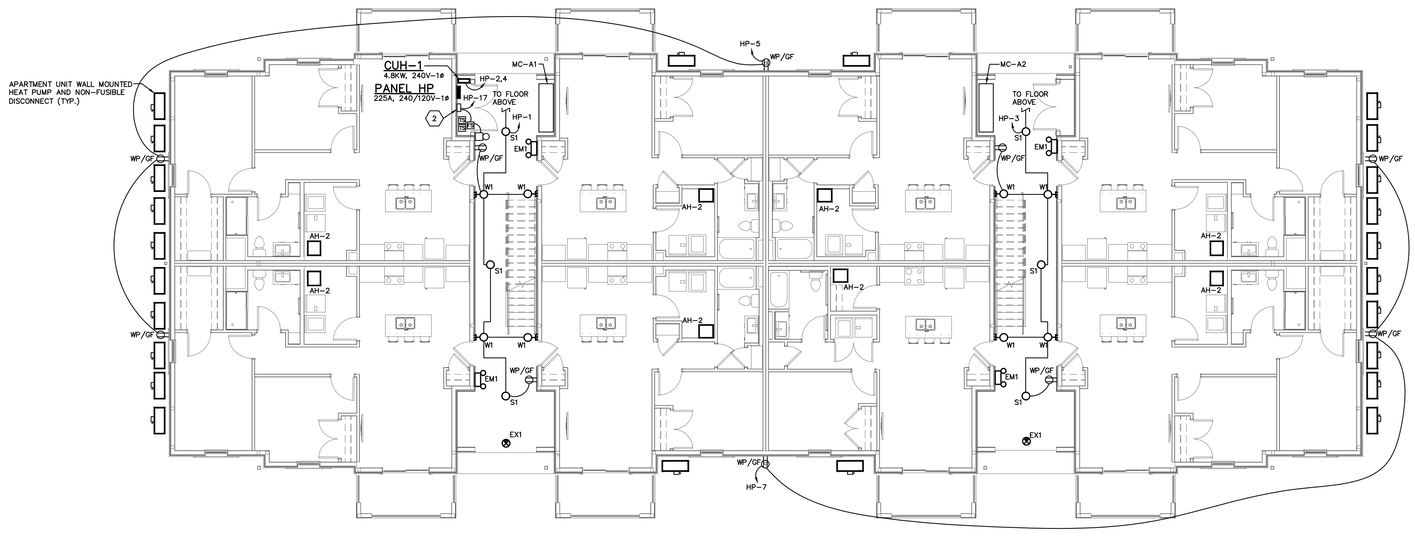


LEVEL 02 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED..

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT RCP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #ST-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.
2. PROVIDE FIRE ALARM SPRINKLER MONITORING PANEL. PROVIDE 2 PHONE LINES TO PANEL. COORDINATE INSTALLATION WITH OWNER. REFER TO SPECIFICATIONS AND WIRING DIAGRAM ON SHEET E-401 FOR MORE INFORMATION.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02 ELECTRICAL PLANS

E101-A-24217.DWG

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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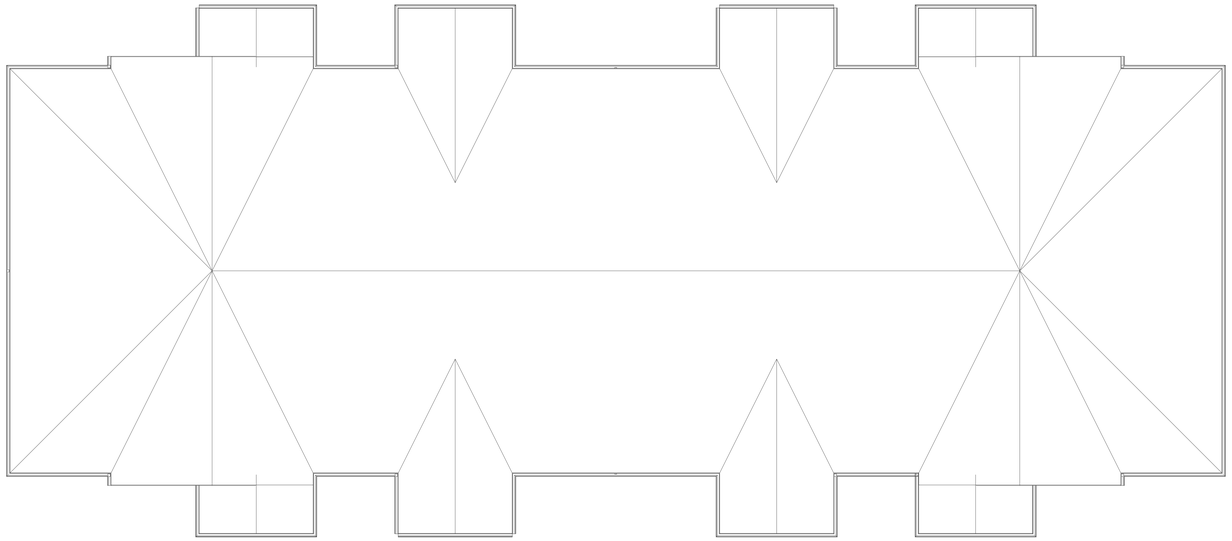
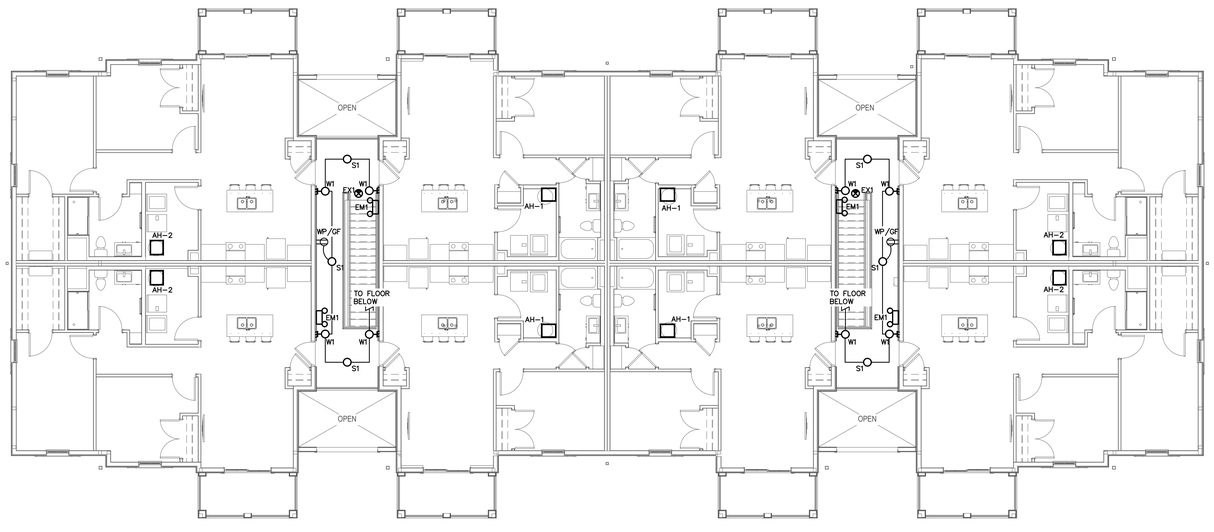


ROOF ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED..

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT RCP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03 & ROOF ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
E102-A
CD PROGRESS SET

E102-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road (614) 766 4896
Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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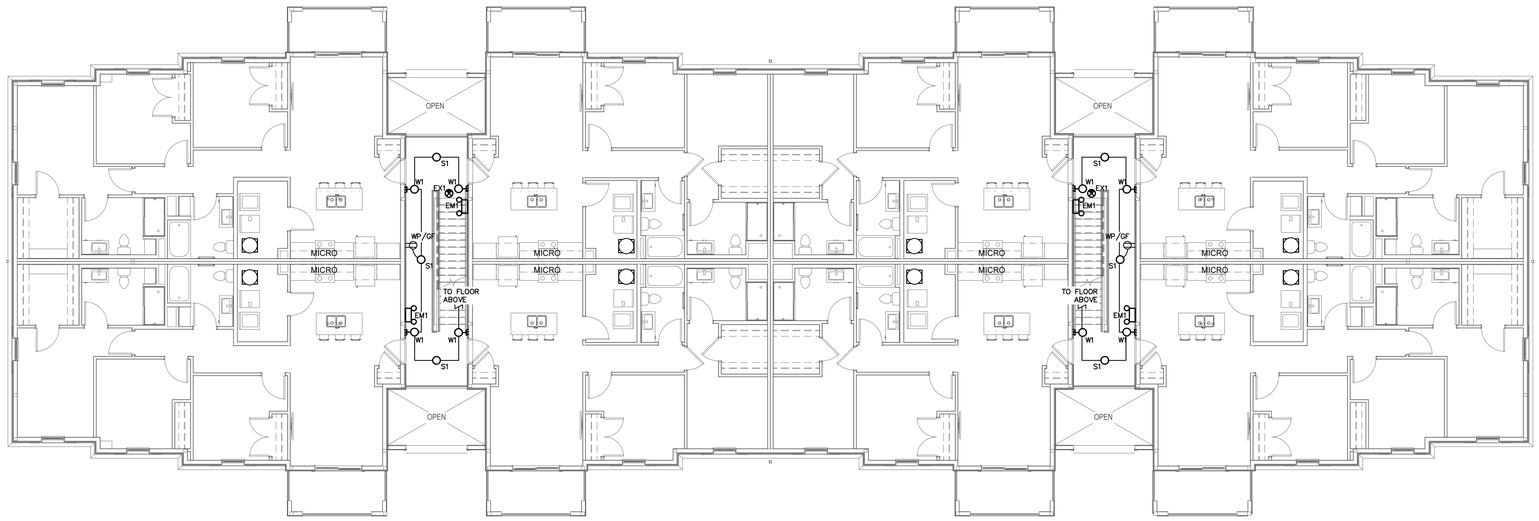
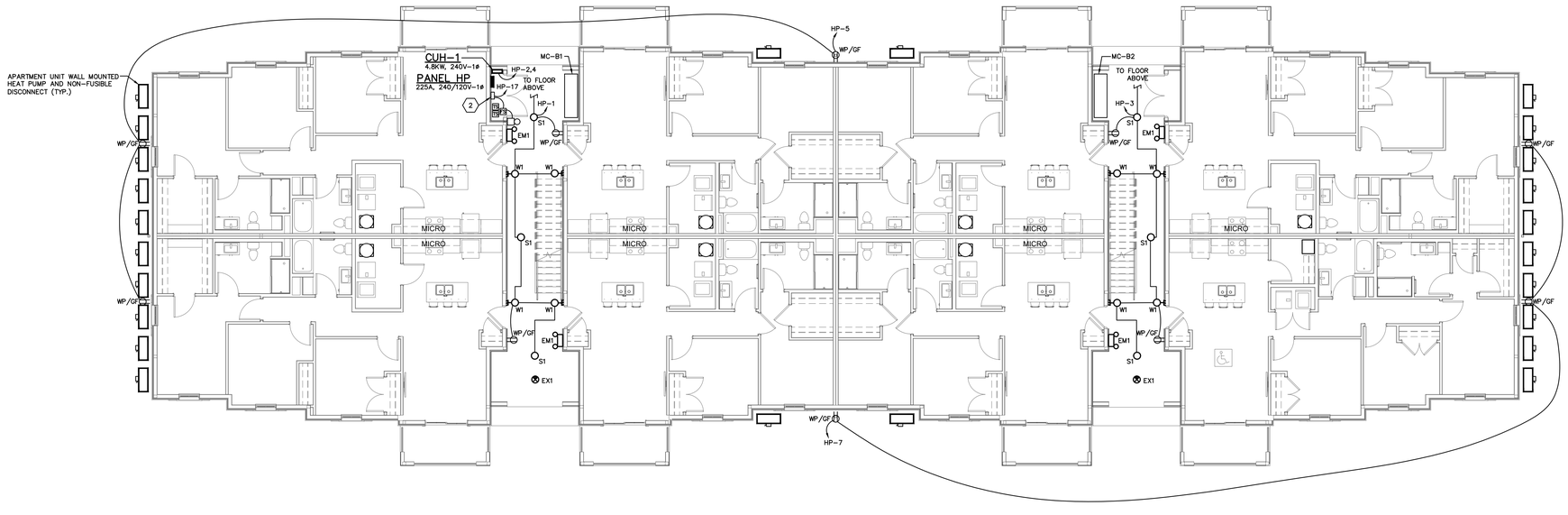


LEVEL 02 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"

E103-B-24217.DWG

PRATER
Engineering Associates, Inc.
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Dublin, Ohio 43016
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FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

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H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

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CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #ST-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.
2. PROVIDE FIRE ALARM SPRINKLER MONITORING PANEL. PROVIDE 2 PHONE LINES TO PANEL. COORDINATE INSTALLATION WITH OWNER. REFER TO SPECIFICATIONS AND WIRING DIAGRAM ON SHEET E-401 FOR MORE INFORMATION.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E103-B

CD PROGRESS SET

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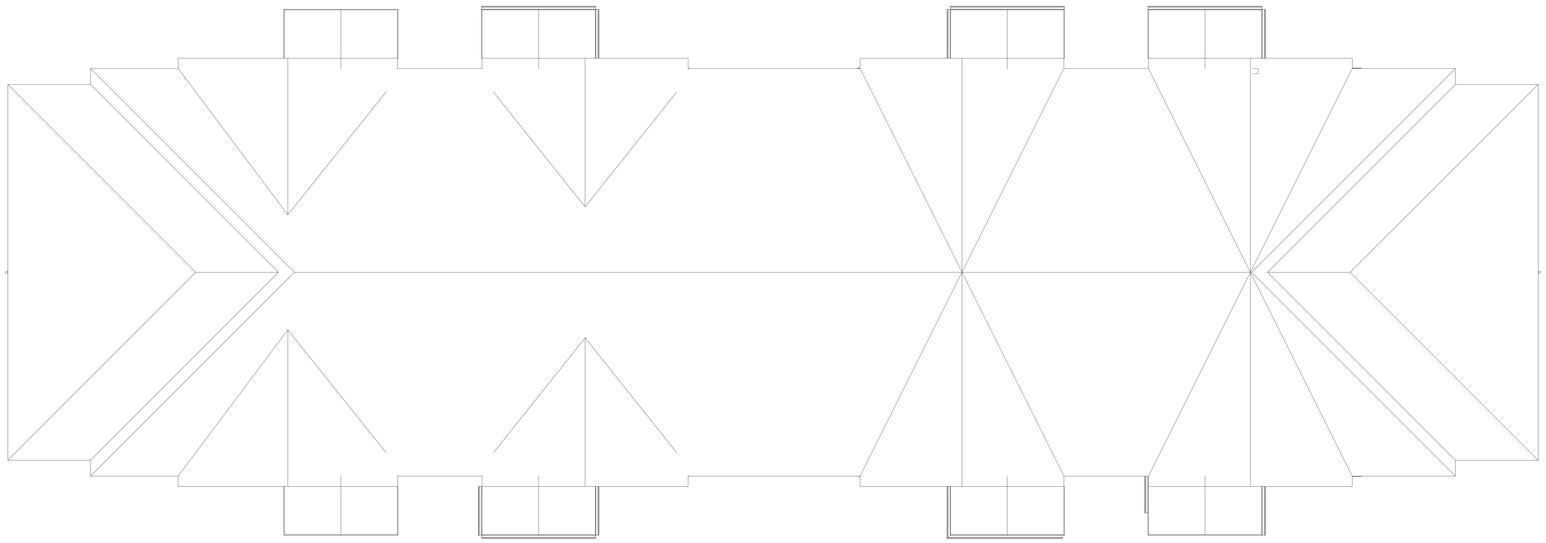
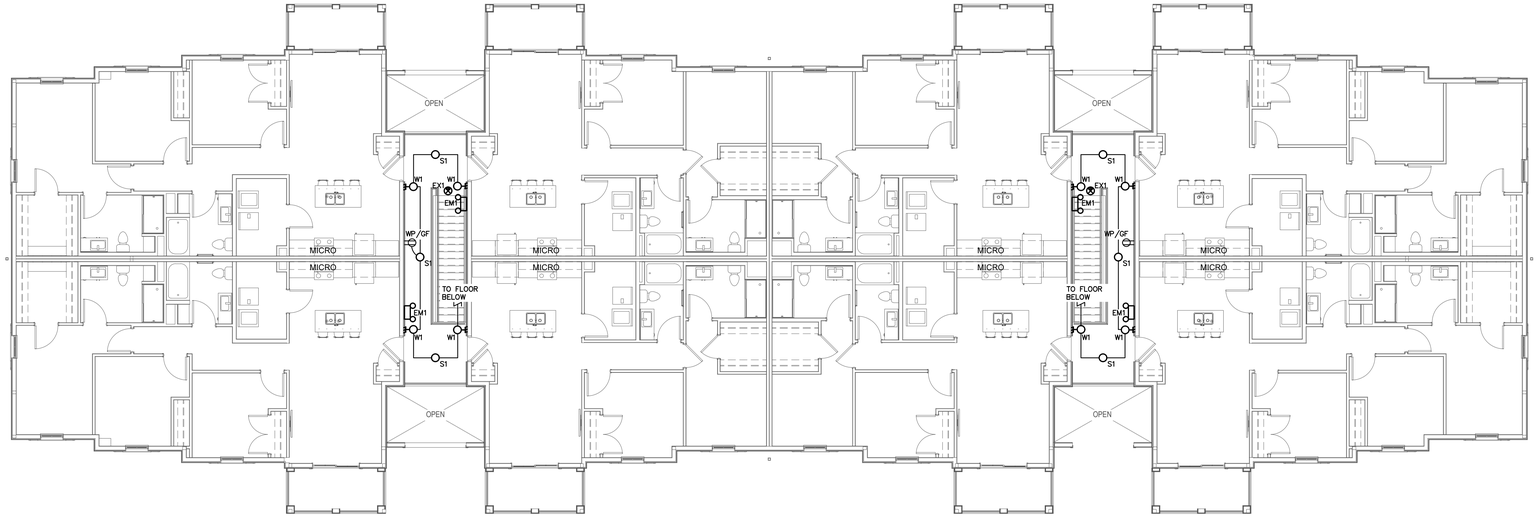


ROOF ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH–IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH–IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH–IN.

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G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED..

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03 & ROOF ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E104-B

CD PROGRESS SET

E104–B–24217.DWG

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6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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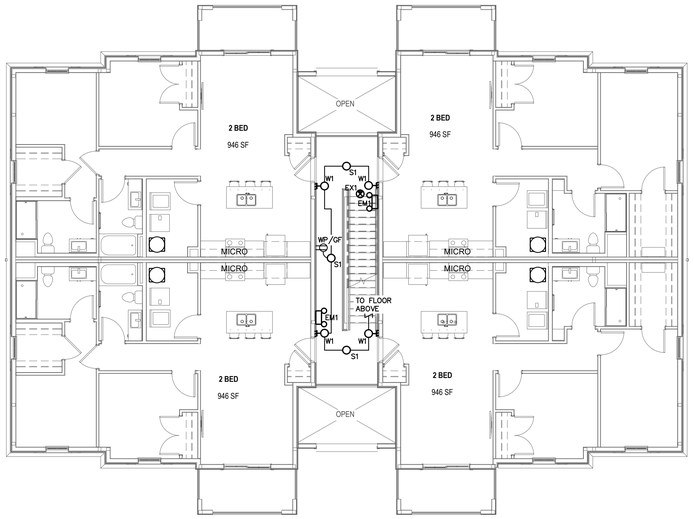
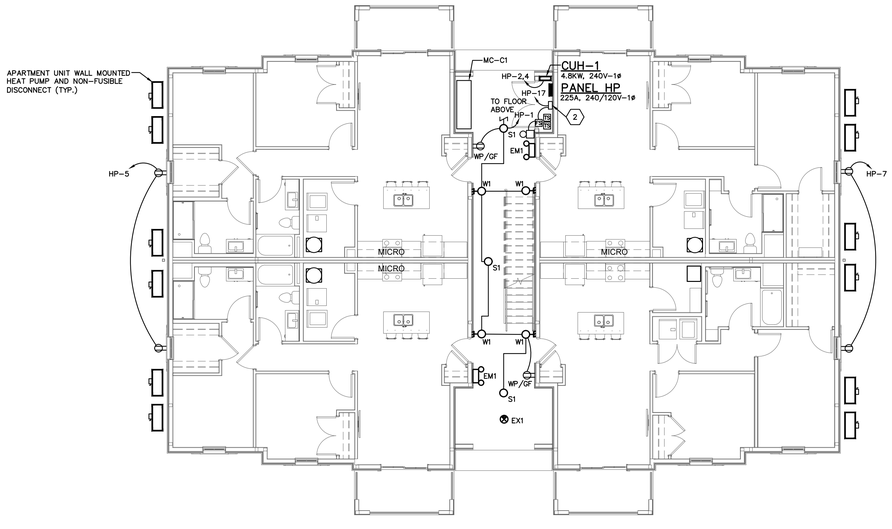


LEVEL 02 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"

GENERAL NOTES

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CODED NOTES ⬡

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 01 & 02 ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E105-C

CD PROGRESS SET

E105-C-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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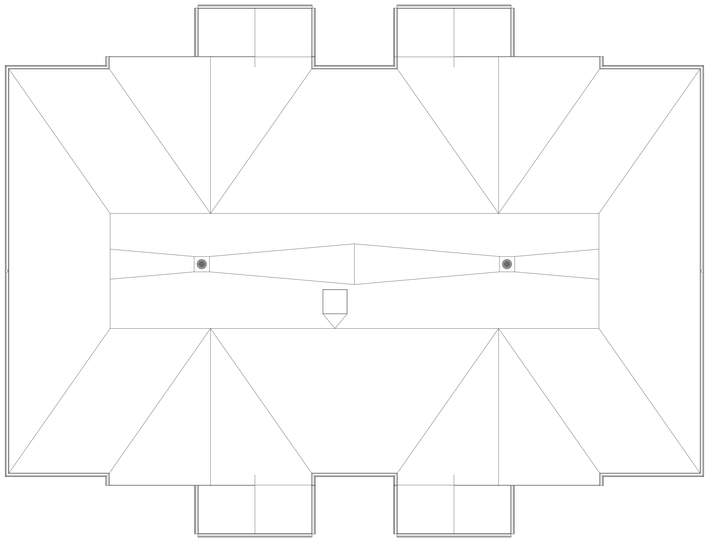
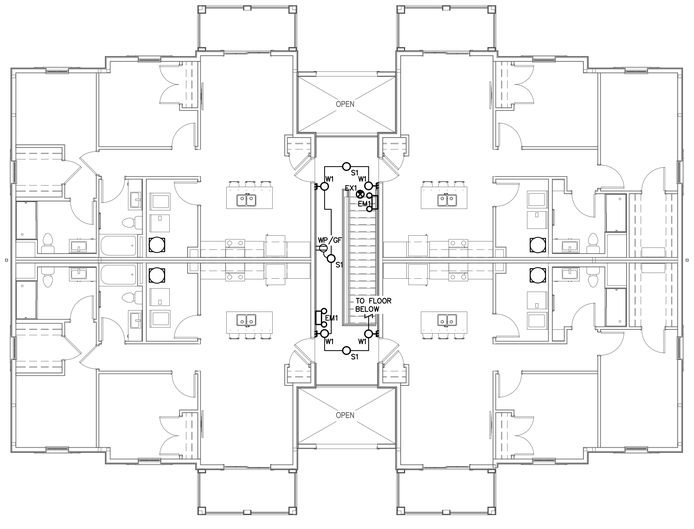


ROOF ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH–IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 03 & ROOF ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E106-C

CD PROGRESS SET

E106–C–24217.DWG

PRATER
Engineering Associates, Inc.
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(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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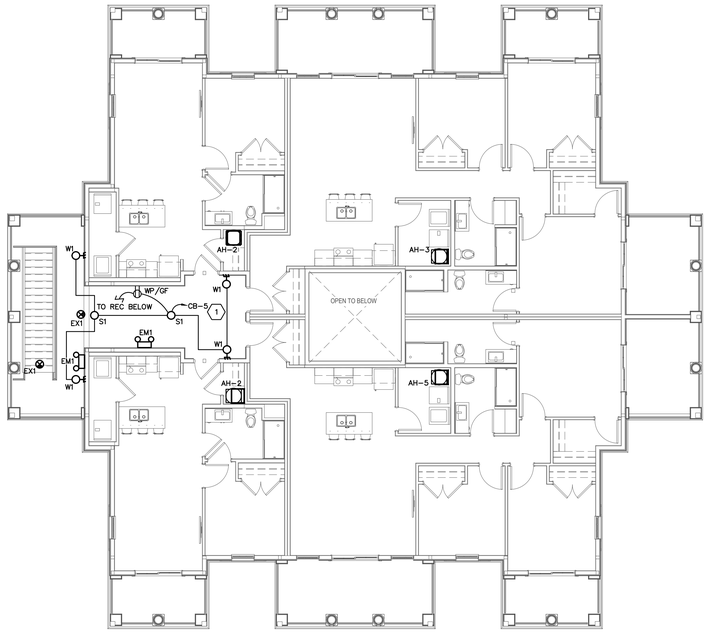
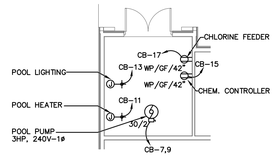
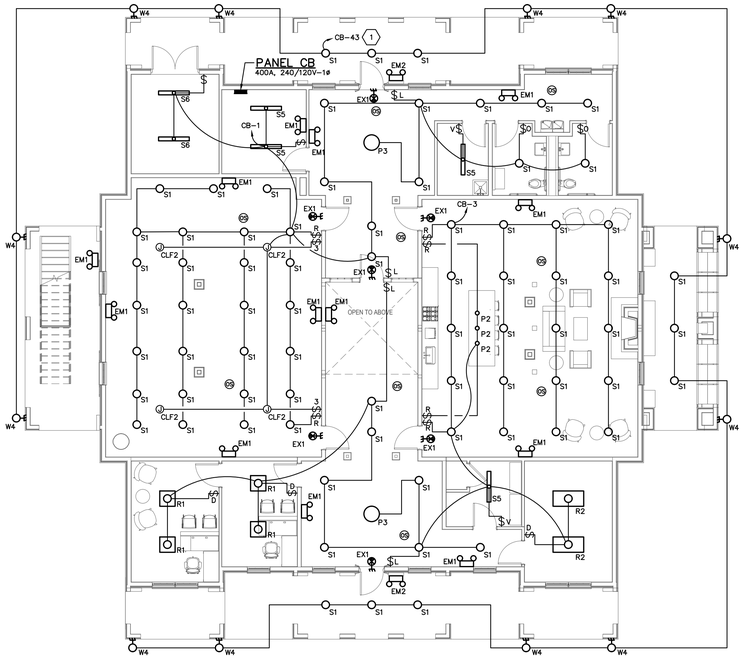


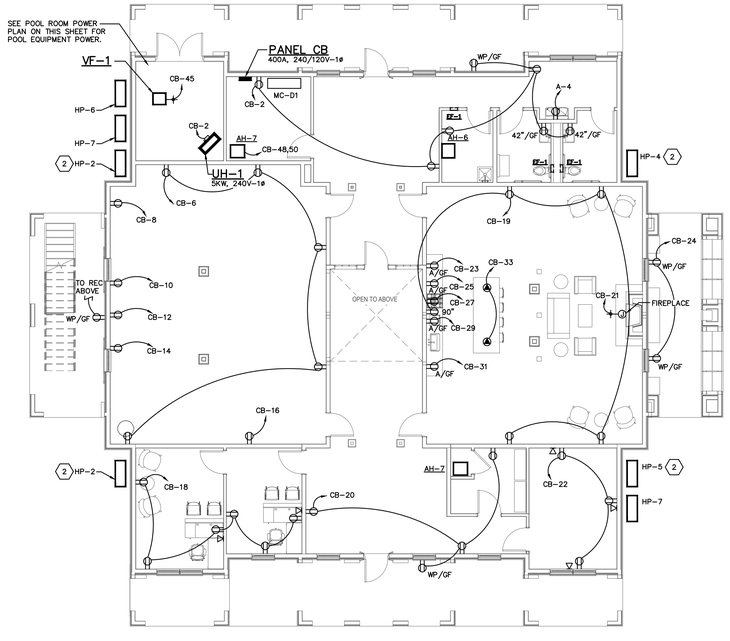
LEVEL 02 ELECTRICAL PLAN – BUILDING D
SCALE: 1/8"=1'-0"



POOL ROOM POWER PLAN
SCALE: 1/8"=1'-0"



LEVEL 01 LIGHTING PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 POWER PLAN – BUILDING D
SCALE: 1/8"=1'-0"

E107-D-24217.DWG

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Engineering Associates, Inc.
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Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED..

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT RCP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #ST-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.
2. HEAT PUMP POWERED FROM APARTMENT UNIT PANEL ON THE SECOND FLOOR.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E107-D

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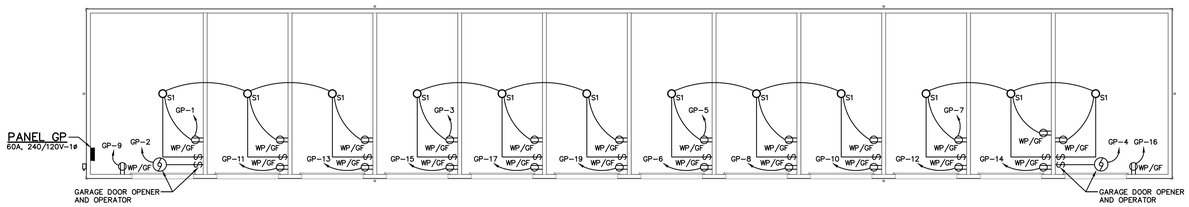
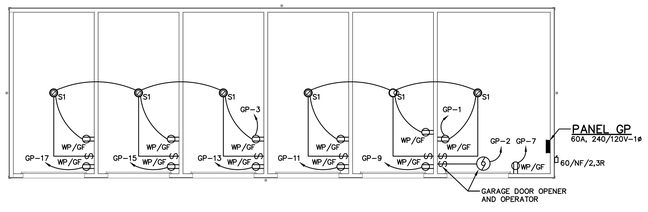


LEVEL 01 ELECTRICAL PLAN – GARAGE G2
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – GARAGE G1
SCALE: 1/8"=1'-0"

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CERT. NO: FIRM 00197475

DRAWING TITLE:
GARAGE BUILDING ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
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CD PROGRESS SET

E109-G-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road (614) 766 4896
Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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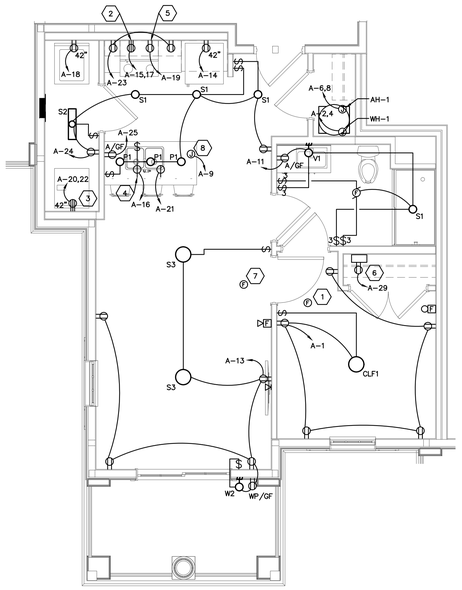
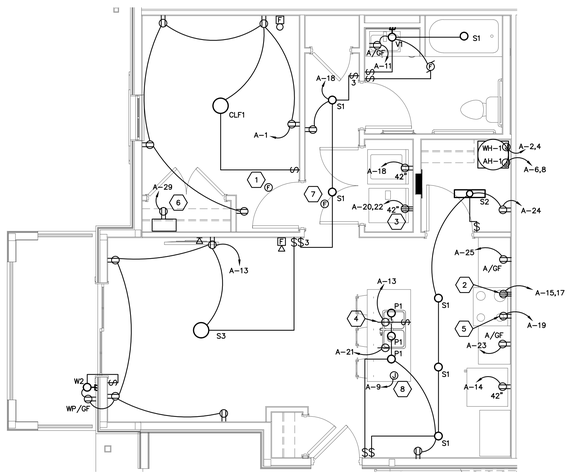
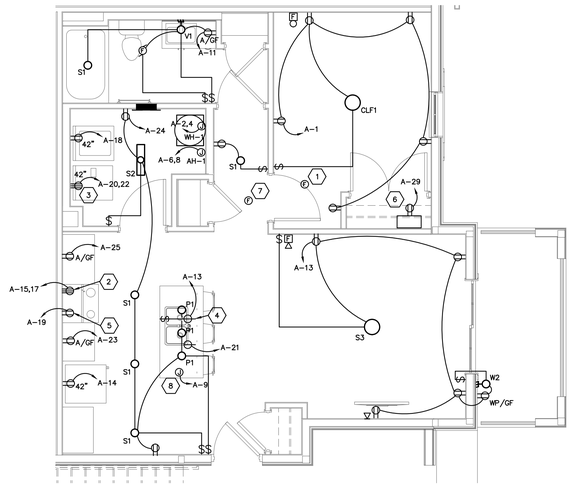


1 BEDROOM CLUBHOUSE
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE A
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE B
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS. MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

H. COORDINATE ALL KITCHEN ELECTRICAL OUTLET LOCATIONS WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS.

I. ELECTRICAL CONTRACTOR SHALL WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES TO BE INSTALLED AFTER PAINTING IS COMPLETE.

J. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

K. ALL OUTLETS IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

L. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

M. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

N. RECEPTACLE FOR REFRIGERATOR SHALL BE MOUNTED AT 42" AND PROVIDED WITH A GFCI CIRCUIT BREAKER.

O. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

P. ALL SWITCHES IN APARTMENT UNITS SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD115W. THREE WAY SWITCHES SHALL BE ROCKER SWITCHES EQUAL TO HUBBEL #RSD315W.

Q. PANELBOARDS IN ALL ANSI TYPE A AND ANSI TYPE B UNITS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART IS AT 48" A.F.F.

CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #3120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE, MOUNT AT 42" A.F.F.
3. PROVIDE 30A, 240V 14-30R RECEPTACLE FOR DRYER. MOUNT AT 42" A.F.F.
4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET, COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE FOR MICROWAVE MOUNTED ABOVE COUNTER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMEX SOHO PRO P300 FLUSH BOX FOR TELEPHONE/CCTV WITH (1) 1" CONDUIT FROM BOX OUT TO ABOVE CORRIDOR CEILING. PROVIDE RECEPTACLE INSIDE MEDIA BOX, MOUNT AT 90" A.F.F. COORDINATE CONDUIT ROUTING WITH OWNER AND GENERAL CONTRACTOR.
7. CEILING MOUNTED COMBINATION SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #SC7010B AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
8. PROVIDE JUNCTION BOX INSIDE CASEWORK WITH #12 AWG AND #12 GND FOR FUTURE USE COUNTER TOP RECEPTACLE. CAP WIRING AND LABEL JUNCTION BOX FOR FUTURE USE. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT PRIOR TO ROUGH-IN.

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THE FALLS ON REFUGEE ROAD
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FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT ELECTRICAL PLANS

E-200-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road (614) 766 4896
Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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05/01/2025

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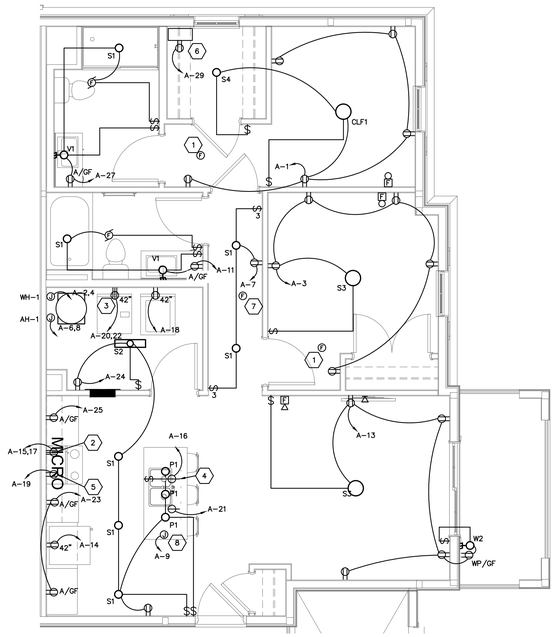
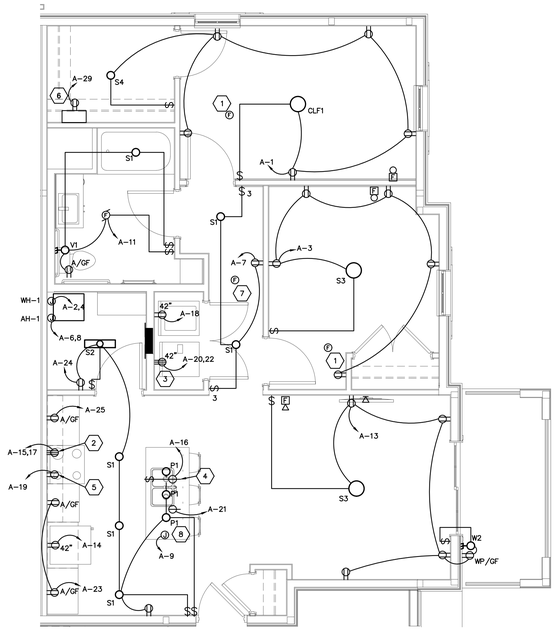


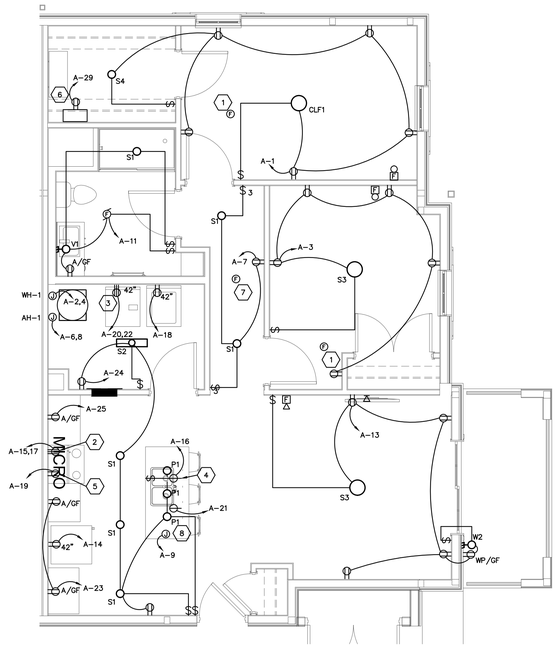
2 BEDROOM 2 BA ELECTRICAL UNIT PLAN

SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE A ELECTRICAL UNIT PLAN

SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE B ELECTRICAL UNIT PLAN

SCALE: 1/4"=1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS. MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

H. COORDINATE ALL KITCHEN ELECTRICAL OUTLET LOCATIONS WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS.

I. ELECTRICAL CONTRACTOR SHALL WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES TO BE INSTALLED AFTER PAINTING IS COMPLETE.

J. ALL OUTLETS IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

K. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

L. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

M. RECEPTACLE FOR REFRIGERATOR SHALL BE MOUNTED AT 42" AND PROVIDED WITH A GFCI CIRCUIT BREAKER.

N. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

O. ALL SWITCHES IN APARTMENT UNITS SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD115W. THREE WAY SWITCHES SHALL BE ROCKER SWITCHES EQUAL TO HUBBEL #RSD315W.

P. PANELBOARDS IN ALL ANSI TYPE A AND ANSI TYPE B UNITS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART IS AT 48" A.F.F.

CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #3120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE, MOUNT AT 42" A.F.F.
3. PROVIDE 30A, 240V 14-30R RECEPTACLE FOR DRYER. MOUNT AT 42" A.F.F.
4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE FOR MICROWAVE MOUNTED ABOVE COUNTER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMEX SOHO PRO P.300 FLUSH BOX FOR TELEPHONE/CCTV WITH (1) 1" CONDUIT FROM BOX OUT TO ABOVE CORRIDOR CEILING. PROVIDE RECEPTACLE INSIDE MEDIA BOX, MOUNT AT 90" A.F.F. COORDINATE CONDUIT ROUTING WITH OWNER AND GENERAL CONTRACTOR.
7. CEILING MOUNTED COMBINATION SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #SC7010B AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
8. PROVIDE JUNCTION BOX INSIDE CASEWORK WITH #12 AWG AND #12 GND FOR FUTURE USE COUNTER TOP RECEPTACLE. CAP WIRING AND LABEL JUNCTION BOX FOR FUTURE USE. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT PRIOR TO ROUGH-IN.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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FOR
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PROGRESS DRAWING NOT FOR CONSTRUCTION

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PRATER
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(614) 766 4896
FAX: (614) 766 2354

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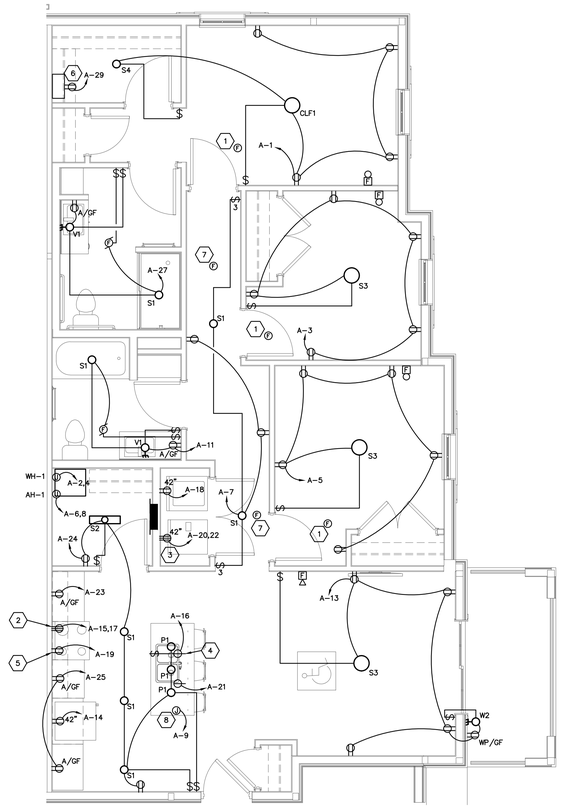
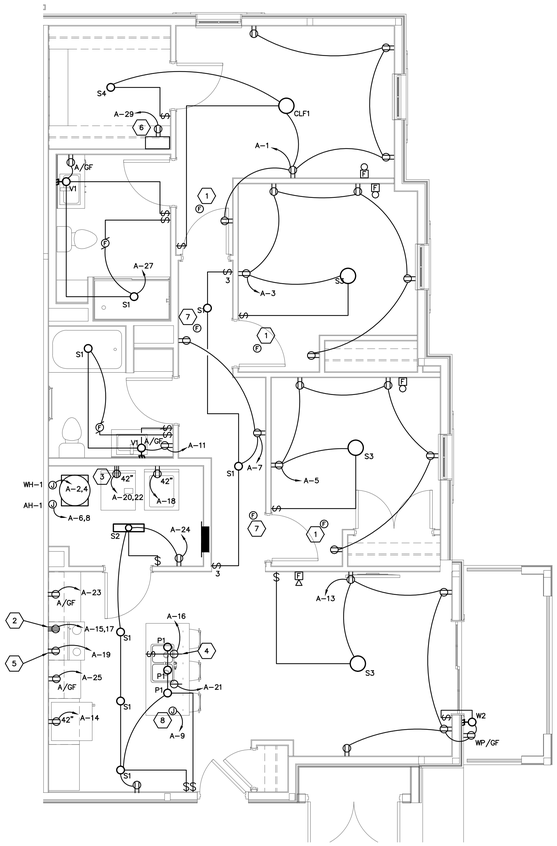
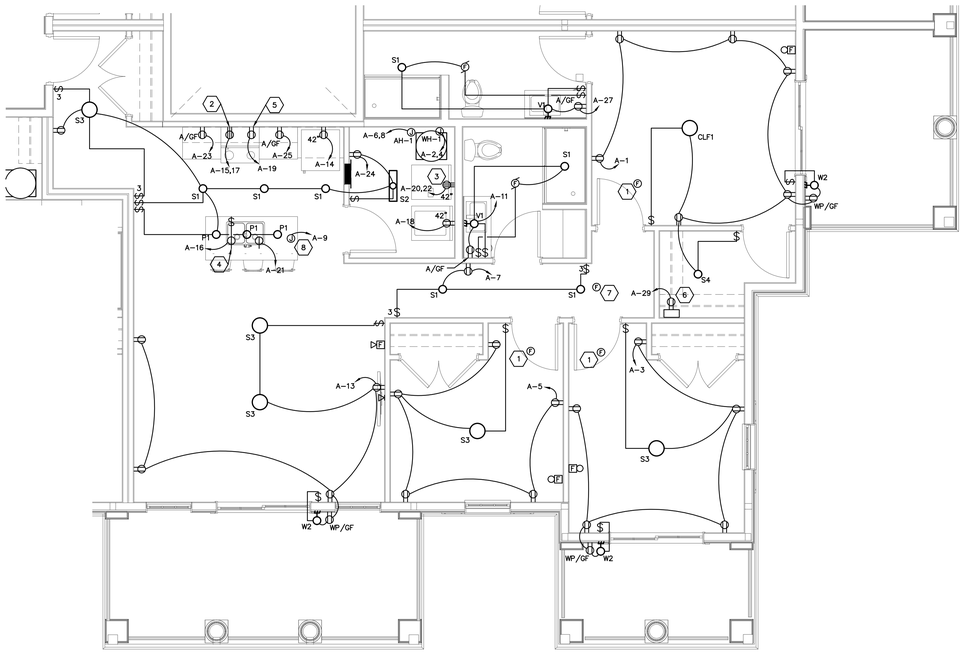


3 BEDROOM ANSI TYPE A
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM CLUBHOUSE
ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

E-202-24217.DWG

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N. RUSSELL	N. RUSSELL	–	24217

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS. MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

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L. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

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N. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

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CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #3120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE, MOUNT AT 42" A.F.F.
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4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
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COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT ELECTRICAL PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E-202

CD PROGRESS SET

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CONDUIT & WIRE SCHEDULE BRANCH CIRCUITS

	WIRE SIZE	2 WIRE+GROUND	3 WIRE+GROUND	4 WIRE+GROUND
15A	#12, #12 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
20A	#12, #12 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
25A	#10, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
30A	#10, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
35A	#8, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
40A	#8, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
45A	#6, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
50A	#6, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	1" CONDUIT
60A	#4, #10 GRD.	1" CONDUIT	1" CONDUIT	1-1/4" CONDUIT
70A	#4, #8 GRD.	1" CONDUIT	1" CONDUIT	1-1/4" CONDUIT
80A	#3, #8 GRD.	1-1/4" CONDUIT	1-1/4" CONDUIT	1-1/4" CONDUIT
90A	#2, #8 GRD.	1-1/4" CONDUIT	1-1/4" CONDUIT	1-1/4" CONDUIT

NOTES:
WIRE SIZE BASED UPON THWN COPPER WIRING, EMT CONDUIT.
PROVIDE WIRE FOR EACH PHASE, NEUTRAL, AND GROUND AS NOTED.
BRANCH CIRCUIT WIRING SHALL MATCH CIRCUIT BREAKER/FUSE SIZE.

VOLTAGE DROP: 120V, 20A BRANCH CIRCUITS (3% VD)
– USE #12 FOR UP TO 60 FT, #10 FROM 61 FT TO 100 FT, #8 FROM 101 FT TO 150 FT.

FEEDER SCHEDULE

DESIG.	C.B. OR FUSE SIZE	FEEDER SIZE
1		(2) EMPTY 4" CONDUITS URD SERVICE CABLE BY AEP COORDINATE WITH AEP
2		(2) EMPTY 3" CONDUITS URD PRIMARY CABLE BY AEP COORDINATE WITH AEP
3	225 AMP	3 – 300 KCMIL ALUMINUM + 2 – 2.5"
4	60 AMP	3 – #3 CU. + #8 CU. – 1.25"

WIRING LEGEND

4 – 350 + 350 – 3"

NO. OF CONDUCTORS
SIZE OF CONDUCTORS
SIZE OF CONDUIT
SIZE OF GROUND CONDUCTOR

GENERAL NOTES

A. COMPACT ALUMINUM MAY BE USED FOR PANEL FEEDERS WHERE APPROVED BY OWNER IN VE DISCUSSIONS. EC SHALL SIZE FEEDER WIRING AND CONDUIT AS NECESSARY TO MATCH BASIS OF DESIGN COPPER AMPS, AND SHALL COORDINATE ALL EQUIPMENT LUG SIZES WITH MANUFACTURER TO ENSURE PROPER FIT.

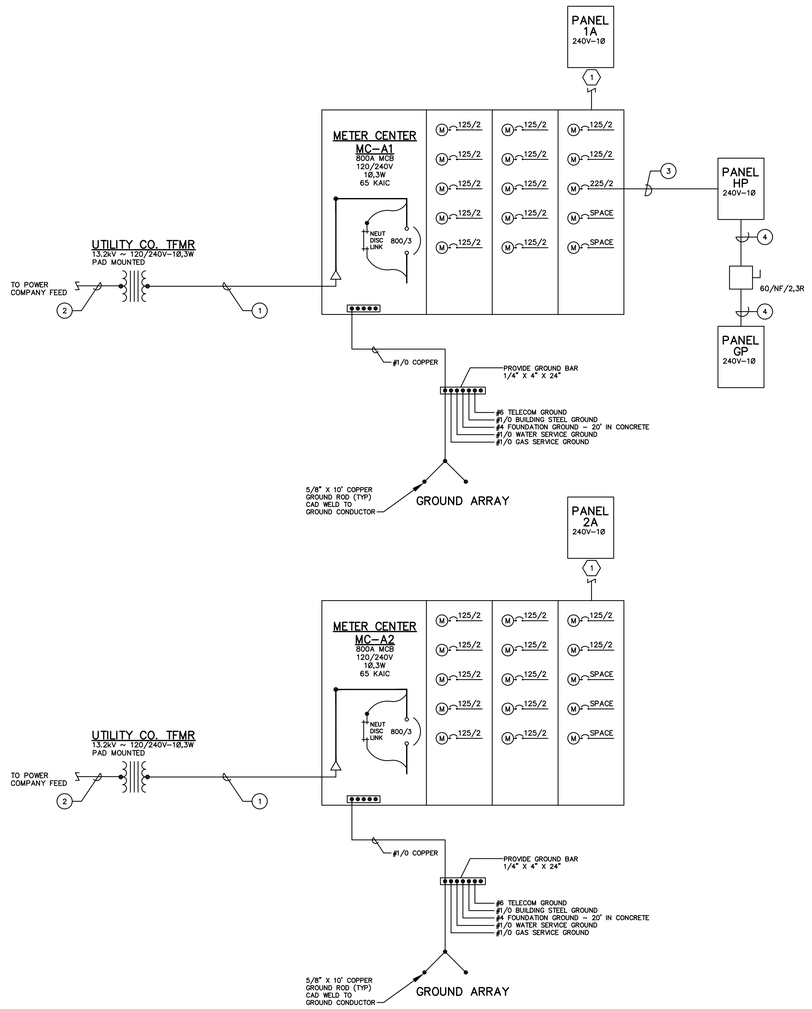
CODED NOTES ⬡

1. PROVIDE A FEEDER TO EACH APARTMENT. SEE APARTMENT FEEDER NOTES ON THIS SHEET.

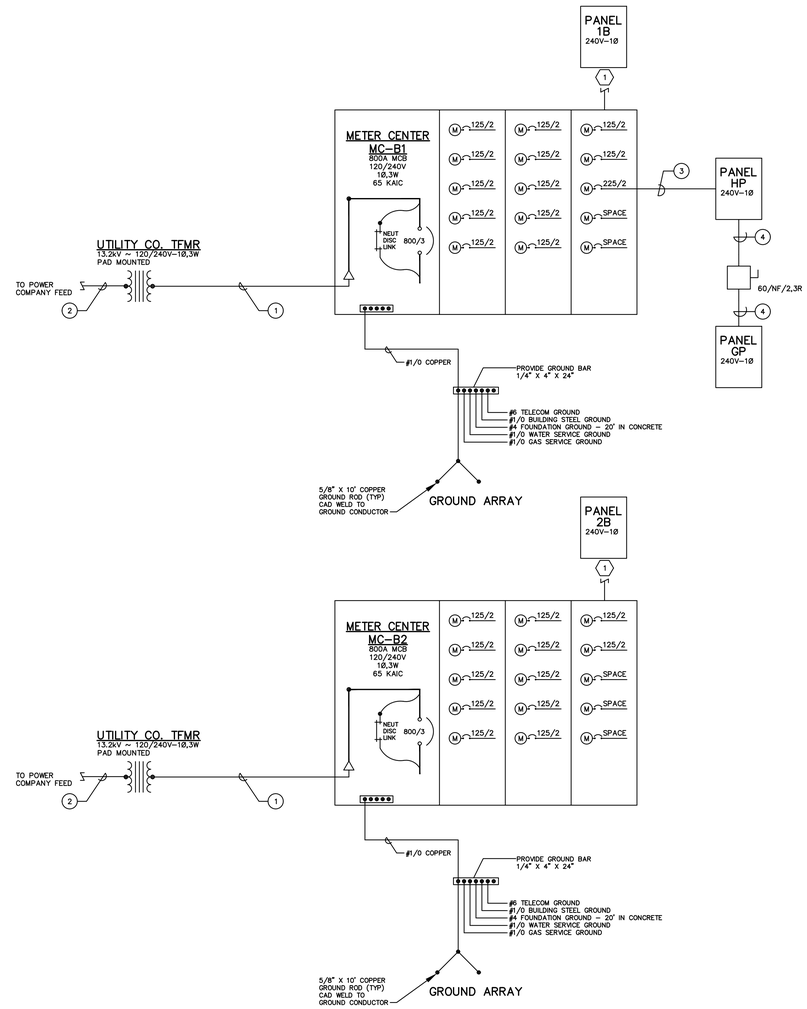
APARTMENT FEEDERS

1. ALL 125 AMP APARTMENTS FEEDERS UNDER 150' IN LENGTH SHALL BE FED WITH (3) #1/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.
2. ALL 125 AMP APARTMENT FEEDERS BETWEEN 150' AND 200' IN LENGTH SHALL BE FED WITH (3) #2/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.
3. ALL 150 AMP APARTMENT FEEDERS UNDER 150' IN LENGTH SHALL BE FED WITH (3) #2/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.
4. ALL 150 AMP APARTMENT FEEDERS BETWEEN 150' AND 200' IN LENGTH SHALL BE FED WITH (3) #3/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.

THIS CONTRACTOR IS RESPONSIBLE FOR TORQUING ALL ALUMINUM CONDUCTORS PER MANUFACTURER'S PUBLISHED TORQUE REQUIREMENTS. THIS CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LUG SIZES TO ACCEPT FEEDER CONDUCTORS NOTED ABOVE, OR TRANSITION TO STANDARD SIZE CONDUCTORS WITHIN EQUIPMENT GUTTERS/SPLICE COMPARTMENTS.



TYPICAL BUILDING A
ELECTRICAL ONE–LINE DIAGRAM
SCALE: NONE



TYPICAL BUILDING B
ELECTRICAL ONE–LINE DIAGRAM
SCALE: NONE

E–300–24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPANIONS. COLUMBUS.NATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL ONE-LINE DIAGRAMS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E-300

CD PROGRESS SET

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CONDUIT & WIRE SCHEDULE BRANCH CIRCUITS

	WIRE SIZE	2 WIRE+GROUND	3 WIRE+GROUND	4 WIRE+GROUND
15A	#12, #12 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
20A	#12, #12 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
25A	#10, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
30A	#10, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
35A	#8, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	3/4" CONDUIT
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50A	#6, #10 GRD.	3/4" CONDUIT	3/4" CONDUIT	1" CONDUIT
60A	#4, #10 GRD.	1" CONDUIT	1" CONDUIT	1-1/4" CONDUIT
70A	#4, #8 GRD.	1" CONDUIT	1" CONDUIT	1-1/4" CONDUIT
80A	#3, #8 GRD.	1-1/4" CONDUIT	1-1/4" CONDUIT	1-1/4" CONDUIT
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NOTES:
WIRE SIZE BASED UPON THWN COPPER WIRING, EMT CONDUIT.
PROVIDE WIRE FOR EACH PHASE, NEUTRAL, AND GROUND AS NOTED.
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VOLTAGE DROP: 120V, 20A BRANCH CIRCUITS (3% VD)
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FEEDER SCHEDULE

DESIG.	C.B. OR FUSE SIZE	FEEDER SIZE
1		(2) EMPTY 4" CONDUITS URD SERVICE CABLE BY AEP COORDINATE WITH AEP
2		(2) EMPTY 3" CONDUITS URD PRIMARY CABLE BY AEP COORDINATE WITH AEP
3	225 AMP	3 – 300 KCMIL ALUMINUM + 2 – 2.5"
4	400 AMP	2 SETS OF (3 – 250 KCMIL ALUMINUM + 1 – 3")
5	60 AMP	3 – #3 CU. + #8 CU. – 1.25"

WIRING LEGEND

4 – 350 + 350 – 3"

NO. OF CONDUCTORS
SIZE OF CONDUCTORS
SIZE OF CONDUIT
SIZE OF GROUND CONDUCTOR

GENERAL NOTES

A. COMPACT ALUMINUM MAY BE USED FOR PANEL FEEDERS WHERE APPROVED BY OWNER IN VE DISCUSSIONS. EC SHALL SIZE FEEDER WIRING AND CONDUIT AS NECESSARY TO MATCH BASIS OF DESIGN COPPER AMPS, AND SHALL COORDINATE ALL EQUIPMENT LUG SIZES WITH MANUFACTURER TO ENSURE PROPER FIT.

CODED NOTES ⬡

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2. ALL 125 AMP APARTMENT FEEDERS BETWEEN 150' AND 200' IN LENGTH SHALL BE FED WITH (3) #2/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.
3. ALL 150 AMP APARTMENT FEEDERS UNDER 150' IN LENGTH SHALL BE FED WITH (3) #2/0 ALUM WITH (1) #4 ALUM GROUND SER CABLE.
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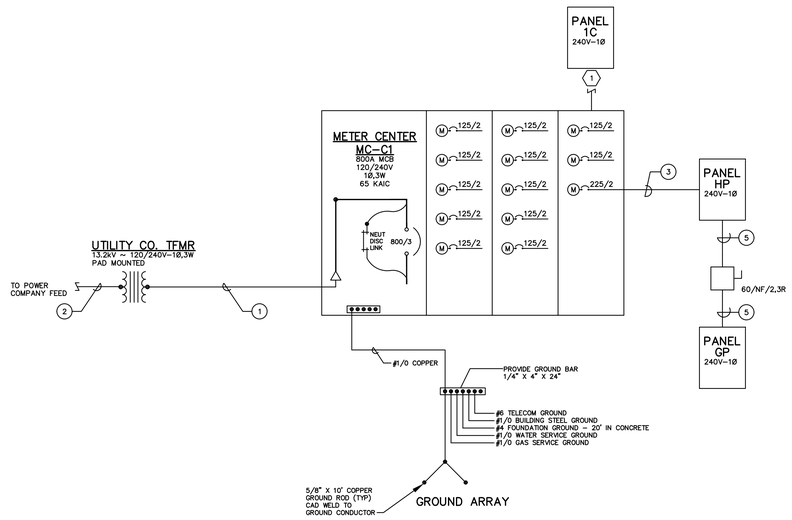
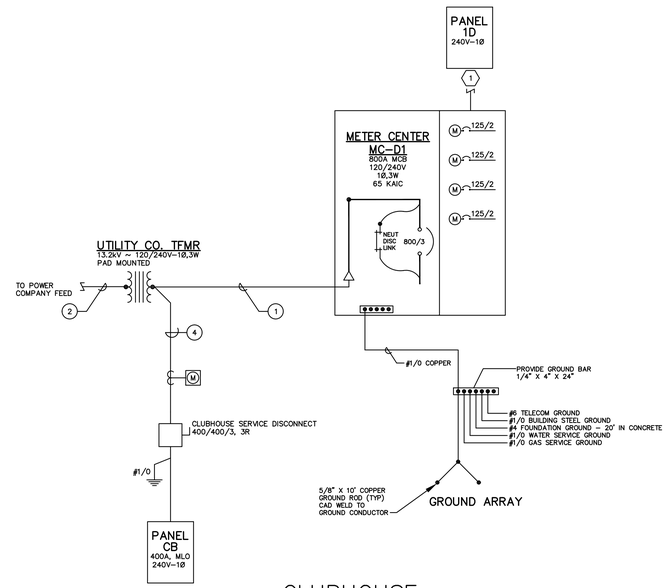


TYPICAL BUILDING C
ELECTRICAL ONE–LINE DIAGRAM
SCALE: NONE



CLUBHOUSE
ELECTRICAL ONE–LINE DIAGRAM
SCALE: NONE

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL ONE-LINE DIAGRAMS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
E-301
CD PROGRESS SET

E-301-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

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Mixed Use

Per NEC Article 220.82 (A), (B), & (C)

Apartment Load Tabulations

PANELBOARD/FEEDER SIZE	**125** AMPS	**125** AMPS	**125** AMPS	**125** AMPS	**125** AMPS	**125** AMPS
UNIT TYPE/AH SIZE	**1 Bed - AH-1**	**1 Bed - AH-2**	**2 Bed**	**3 Bed**	**3 Bed ANSI A**	**3 Bed Clubhouse**
UNIT AREA (SQ. FT) =	695	689	946	1,205	1,157	1,270
SQ. FT x 3VA =	2,085	2,067	2,838	3,615	3,471	3,810
2 SMALL APPLIANCE CKT =	3,000	3,000	3,000	3,000	3,000	3,000
LAUNDRY =	1,500	1,500	1,500	1,500	1,500	1,500
WATER HEATER =	4,500	4,500	4,500	4,500	4,500	4,500
DISPOSAL =	864	864	864	864	864	864
DISHWASHER =	1,400	1,400	1,400	1,400	1,400	1,400
DRYER =	3,500	3,500	3,500	3,500	3,500	3,500
RANGE = +	8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000
TOTAL =	24,849	24,831	25,602	26,379	26,235	26,574
1ST 10KVA @ 100% =	10,000	10,000	10,000	10,000	10,000	10,000
REMAINDER @ 40% = +	5,940	+ 5,932	+ 6,241	+ 6,552	+ 6,494	+ 6,630
TOTAL =	15,940	15,932	16,241	16,552	16,494	16,630
FURNACE MOTOR =	603	603	603	603	603	603
FURNACE HEAT =	6,000	6,000	7,500	7,500	7,500	7,500
HEAT PUMP = +	2,267	+ 2,267	+ 2,267	+ 2,267	+ 2,267	+ 2,267
PANEL DEMAND LOAD =	24,810 VA	24,802 VA	26,611 VA	26,922 VA	26,864 VA	27,000 VA
PANEL DEMAND LOAD/240 VOLTS =	103.4 AMPS	103.3 AMPS	110.9 AMPS	112.2 AMPS	111.9 AMPS	112.5 AMPS
PANEL CONNECTED LOAD =	33,719 VA	33,701 VA	35,972 VA	36,749 VA	36,605 VA	36,944 VA

MC-A1, MC-A2

VA	QTY	TYPE
202,314	6	1 Bed - AH-1
215,832	6	2 Bed
-		
-		
418,146	12	TOTAL

1,742.3 A
171,440 VA (Demand)
714.3 A (Demand)
41 Factor

MC-B1, MC-B2

VA	QTY	TYPE
215,832	6	2 Bed
183,745	5	3 Bed
36,605	1	3 Bed ANSI A
-		
-		
436,182	12	TOTAL

1,817.4 A
178,835 VA (Demand)
745.1 A (Demand)
41 Factor

MC-C1

VA	QTY	TYPE
431,664	12	2 Bed
-		
-		
431,664	12	TOTAL

1,798.6 A
176,982 VA (Demand)
737.4 A (Demand)
41 Factor

MC-D1

VA	QTY	TYPE
73,888	2	3 Bed Clubhouse
67,402	2	1 Bed - AH-2
-		
-		
141,290	4	TOTAL

392.2 A
63,581 VA (Demand)
264.9 A (Demand)
45 Factor

Panel ID: A* Voltage: 240 / 120 Panel Type: APARTMENT LOADCENTER
Location: ELECTRICAL ROOM Phase: 1 Enclosure: TYPE 1
Mounting: SURFACE Wire: 3
Main Type: MLO Main Size: 125 Amps

All 15 Amp and 20 Amp 120V circuit breakers shall be AFCI or AFCI/GFCI combination breakers if GF is specified.
Provide Internal SPD
All circuit breakers shall be standard bolt-on type, unless noted otherwise.
* = Apartment Unit Number
** = Refer to air handle/heat pump electrical requirements on sheet E-302 for circuit breaker and wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	MASTER BEDROOM	20/1	-	0.000	1	A	2	0.000	-	30/2	WH-1	10	10
12	12	BEDROOM 2	20/1	-	0.000	3	B	4	0.000	-	-	-	10	-
12	12	BEDROOM 3	20/1	-	0.000	5	A	6	0.000	-	**	AH-XX	**	**
12	12	HALL REC/LTG	20/1	-	0.000	7	B	8	0.000	-	-	-	**	-
12	12	FUTURE ISLAND POWER	20/1	GF	0.000	9	A	10	0.000	-	**	HP-XX	**	**
12	12	BATHROOM LTG/REC	20/1	-	0.000	11	B	12	0.000	-	-	-	**	-
12	12	LIVING RM REC/LTG	20/1	-	0.000	13	A	14	0.000	GF	20/1	REFRIGERATOR	12	12
10	6	RANGE	50/2	GF	0.000	15	B	16	0.000	GF	20/1	DISPOSAL	12	12
-	6	-	-	-	0.000	17	A	18	0.000	GF	20/1	WASHER	12	12
12	12	MICROWAVE	20/1	GF	0.000	19	B	20	0.000	GF	30/2	DRYER	10	10
12	12	DISHWASHER	20/1	GF	0.000	21	A	22	0.000	-	-	-	10	-
12	12	KITCHEN REC	20/1	-	0.000	23	B	24	0.000	-	20/1	KITCHEN/LAUNDRY	12	12
12	12	KITCHEN REC	20/1	-	0.000	25	A	26	0.000	-	20/1	SPARE	-	-
12	12	MASTER BATHROOM	20/1	-	0.000	27	B	28	0.000	-	-	INTERNAL SPD	-	-
12	12	MEDIA PANEL	20/1	-	0.000	29	A	30	0.000	-	-	-	-	-

See Apartment load tabulations on sheet E-302 for load information.

Breaker Options (If Used):
TC - Time Clock Control
LO - Lock-On Device
GF - GND Fault CKT Interrupter
E - Existing to Remain
SH - Shunt Trip Breaker

Panel ID: GP Voltage: 240 / 120 Panel Type: LIGHTING AND POWER PANEL
Location: GARAGE Phase: 1 Enclosure: NEMA 1
Mounting: SURFACE Wire: 3
Main Type: MLO Main Size: 60 Amps

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
** = Refer to one line diagram for wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	GARAGE 1-3	20/1	-	0.582	1	A	2	0.700	-	20/1	GARAGE DOOR 1	12	12
12	12	GARAGE 4-6	20/1	-	0.582	3	B	4	0.700	-	20/1	GARAGE DOOR 12	12	12
12	12	GARAGE 7-9	20/1	-	0.582	5	A	6	0.180	-	20/1	GARAGE 7 REC	12	12
12	12	GARAGE 10-12	20/1	-	0.582	7	B	8	0.180	-	20/1	GARAGE 8 REC	12	12
12	12	GARAGE 1 REC	20/1	-	0.180	9	A	10	0.180	-	20/1	GARAGE 9 REC	12	12
12	12	GARAGE 2 REC	20/1	-	0.180	11	B	12	0.180	-	20/1	GARAGE 10 REC	12	12
12	12	GARAGE 3 REC	20/1	-	0.180	13	A	14	0.180	-	20/1	GARAGE 11 REC	12	12
12	12	GARAGE 4 REC	20/1	-	0.180	15	B	16	0.180	-	20/1	GARAGE 12 REC	12	12
12	12	GARAGE 5 REC	20/1	-	0.180	17	A	18	0.000	-	20/1	SPARE	-	-
12	12	GARAGE 6 REC	20/1	-	0.180	19	B	20	0.000	-	20/1	SPARE	-	-
-	-	SPACE	-	-	0.000	21	A	22	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	23	B	24	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	25	A	26	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	27	B	28	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	29	A	30	0.000	-	-	SPACE	-	-

Demand Load Panel Summary	Connected Load Panel Summary			Breaker Options (If Used):
5.9 KVA	Phase A:	2.9 KVA	24.5 AMPS	TC - Time Clock Control
14.2 AMPS	Phase B:	2.9 KVA	24.5 AMPS	LO - Lock-On Device
				GF - GND Fault CKT Interrupter
	Total:	5.9 KVA	24.5 AMPS	E - Existing to Remain
				SH - Shunt Trip Breaker

Panel ID: CB Voltage: 240 / 120 Panel Type: POWER AND LIGHTING PANEL
Location: ELECTRICAL ROOM Phase: 1 Enclosure: NEMA 1
Mounting: SURFACE Wire: 3
Main Type: MCB Main Size: 400 Amps

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
** = Refer to one line diagram for wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	NW INTERIOR LTG	20/1	-	0.900	1	A	2	1.080	-	20/1	NORTH GEN. REC	12	12
12	12	SE INTERIOR LTG	20/1	-	0.900	3	B	4	0.600	GF	20/1	DRINKING FOUNTAIN	12	12
12	12	2F HALL REC/LTG	20/1	-	0.500	5	A	6	0.900	-	20/1	FITNESS RM REC	12	12
10	10	POOL PUMP	30/2	-	2.040	7	B	8	1.920	-	20/1	EXERCISE BIKE	12	12
-	10	-	-	-	2.040	9	A	10	1.920	-	20/1	TREADMILL	12	12
12	12	POOL HEATER	20/1	-	0.240	11	B	12	1.920	-	20/1	TREADMILL	12	12
12	12	POOL LIGHTING	20/1	-	0.300	13	A	14	1.920	-	20/1	TREADMILL	12	12
12	12	CHEM. CONTROLLER	20/1	-	0.360	15	B	16	1.920	-	20/1	EXERCISE BIKE	12	12
12	12	CHLORINE FEEDER	20/1	-	1.820	17	A	18	1.080	-	20/1	OFFICE REC	12	12
12	12	COMM. RM. REC	20/1	-	0.900	19	B	20	0.720	-	20/1	SOUTH GEN. REC	12	12
12	12	GAS FIREPLACE	20/1	-	0.360	21	A	22	0.540	-	20/1	CONFERENCE RM REC	12	12
12	12	COUNTER REC	20/1	-	0.180	23	B	24	0.360	-	20/1	EXTERIOR REC	12	12
12	12	COFFEE MAKER	20/1	-	1.200	25	A	26	0.200	-	20/1	POOL BOLLARDS	12	12
12	12	U.C. FRIDGE	20/1	GF	0.900	27	B	28	0.200	-	20/1	EXTERIOR BOLLARDS	12	12
12	12	MICROWAVE	20/1	-	1.200	29	A	30	0.200	-	20/1	EXTERIOR BOLLARDS	12	12
12	12	COUNTER REC	20/1	-	0.180	31	B	32	3.840	-	40/2	EV CHARGER	8	10
12	12	ISLAND REC	20/1	GF	0.360	33	A	34	3.840	-	-	-	8	-
10	8	EV CHARGER	40/2	-	3.840	35	B	36	3.840	-	40/2	EV CHARGER	8	10
-	8	-	-	-	3.840	37	A	38	3.840	-	-	-	8	-
10	8	EV CHARGER	40/2	-	3.840	39	B	40	0.360	-	20/1	FIRE PIT	12	12
-	8	-	-	-	3.840	41	A	42	0.180	-	20/1	PATIO GRILL	12	12
10	10	EXTERIOR LTG	20/1	-	0.200	43	B	44	2.500	-	30/2	UH-1	10	10
12	12	VF-1	20/1	-	0.060	45	A	46	2.500	-	-	-	10	-
-	-	SPARE	20/1	-	0.000	47	B	48	4.720	-	40/2	AH-7	8	10
-	-	SPARE	20/1	-	0.000	49	A	50	4.720	-	-	-	8	-
-	-	SPARE	20/1	-	0.000	51	B	52	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	53	A	54	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	55	B	56	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	57	A	58	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	59	B	60	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	61	A	62	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	63	B	64	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	65	A	66	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	67	B	68	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	69	A	70	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	71	B	72	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	73	A	74	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	75	B	76	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	77	A	78	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	79	B	80	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	81	A	82	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	83	B	84	0.000	-	20/1	SPARE	-	-

Demand Load Panel Summary	Connected Load Panel Summary			Breaker Options (If Used):
69.0 KVA	Phase A:	39.3 KVA	327.8 AMPS	TC - Time Clock Control
166.0 AMPS	Phase B:	36.5 KVA	304.0 AMPS	LO - Lock-On Device
				GF - GND Fault CKT Interrupter
	Total:	75.8 KVA	315.9 AMPS	E - Existing to Remain
				SH - Shunt Trip Breaker

AIR HANDLER REQUIREMENTS

AH--	VOLTS	PHASE	KW	BREAKER	WIRE SIZE
1,4	240	1	5.0	25/2	(2) #10 & (1) #10 GRD
2	240	1	7.5	40/2	(2) #8 & (1) #10 GRD
3,5	240	1	10.0	60/2	(2) #6 & (1) #10 GRD

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING REQUIREMENTS FOR EACH AIR HANDLER UNIT. REFER TO OVERALL POWER PLANS FOR AIR HANDLER FOR EACH APARTMENT. THE BREAKER SHALL BE PROVIDED FOR THE TENANT PANEL.

HEAT PUMP REQUIREMENTS

HP--	VOLTS	PHASE	MCA	BREAKER	WIRE SIZE	CONDUIT SIZE
1,2,3	240	1	10.9	15/2	(2) #10 & (1) #10 GRD	3/4"
4,5	240	1	13.5	20/2	(2) #10 & (1) #10 GRD	3/4"

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING REQUIREMENTS FOR EACH HEAT PUMP UNIT. REFER TO OVERALL POWER PLANS FOR HEAT PUMP UNIT FOR EACH APARTMENT. THE BREAKER SHALL BE PROVIDED FOR THE TENANT PANEL.

E-302-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	-	24217

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES & APARTMENT LOAD TABULATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E-302

CD PROGRESS SET

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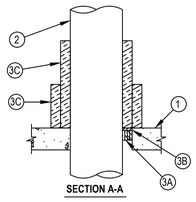
System No. F-A-1105

FA 105

CERTIFIED C UL US

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 2 Hr	FT Rating - 2 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr
L Rating At 400 F - 4 CFM/sq ft	FTH Rating - 2 Hr
W Rating - Class 1 (See Item 3B)	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - 4 CFM/sq ft



SECTION A-A

1. Floor Assembly -- Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. As an alternate, any min 2 hr fire rated D700 or D900 series Floor-Ceiling Design in the UL Fire Resistance Directory having a min 2-1/2 in. (64 mm) thickness of lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete topping over the steel deck may be used. Max diam of opening is 12-3/4 in (324 mm).
2. Through-Penetrant -- One metallic pipe installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening shall be min of 0 in. (point contact) to max 2 in. (51 mm). Penetrant to be rigidly supported on both sides of floor assembly.The following types and sizes of penetrants may be used:
   A. Steel Pipe -- Nom 10 in. (254 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe
   B. Iron Pipe -- Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

HILTI Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 17, 2014

System No. F-A-1105

FA 105

3. Firestop System -- The firestop system shall consist of the following:
   A. Packing Material -- Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. When CP 604, CFS-S SIL GG or CFS-S SIL SL sealant is used (see item 3B), min thickness of packing material is 4 in. (102 mm) and min thickness of floor is 4-1/2 in. (114 mm). Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Materials* - Sealant -- Min 1/2 in. (13 mm) thickness of sealant applied within the annulus, flush with top surface of floor. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant or CP 604 Self-Leveling Firestop Sealant, CFS-S SIL GG or CFS-S SIL SL Sealant. W Rating applies only when CP 604, CFS-S SIL or CFS-S SIL SL Sealant is used.
   C. Duct Wrap Material* -- Encapsulated duct wrap tightly around penetrant to extend 24 in. (610 mm) above the floor for penetrants of nom 4 in. (102 mm) diam or smaller, and 36 in. (914 mm) above floor for penetrants greater than a nom 4 in. (102 mm) diam. An additional layer of encapsulated duct wrap tightly wrapped around the first layer of duct wrap to extend 12 in. (305 mm) (914 mm) above floor. All longitudinal seams of both layers of duct wrap and joints between layers of duct wrap are sealed with foil tape. One of the following types and thicknesses of duct wrap may be used:
   C.1. Nom 1-1/2 in. (38 mm) or 2 in. (51 mm) thick encapsulated duct wrap. UNIFRAX I L L C -- Fyrewrap Duct Insulation or FireWrap Duct 1.5 Insulation.
   C.2. Nom 1-1/2 in. (38 mm) thick encapsulated duct wrap. THERMAL CERAMICS INC -- FireMaster FastWrap XL Duct Insulation.

*Bearing the UL Classification Mark

HILTI Hilti Firestop Systems

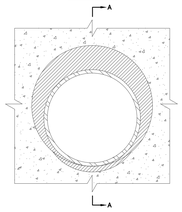
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 17, 2014

UL/CUL SYSTEM NO. CAJ1154

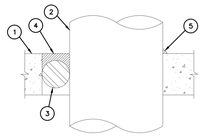
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

TOP VIEW



SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

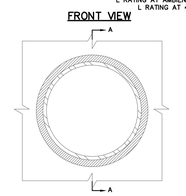
NOTES:
1. MAXIMUM DIAMETER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. WL1085

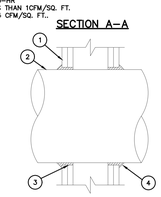
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HGT. TO CENTER UNLESS OTHERWISE NOTED
R1,a	LIGHT FIXTURE; TYPE "R1" SEE LIGHTING FIXTURE SCHEDULE; WIRED TO SWITCH "a"	
	LED STRIP LIGHTING FIXTURE	
	TRACK LIGHTING; QUANTITY OF HEADS AS SHOWN	
	CEILING OR WALL MOUNTED LIGHTING FIXTURE TYPE SEE LIGHTING FIXTURE SCHEDULE	SEE DRAWINGS
	EXIT SIGN FIXTURE (WITH DIRECTIONAL ARROWS AS SHOWN); (TYPE AND MOUNTING AS NOTED: SEE LIGHTING FIXTURE SCHEDULE)	94"
	EXIT SIGN FIXTURE WITH REMOTE HEADS	94"
	EMERGENCY LIGHTING BATTERY PACK WITH INTEGRAL HEADS (TYPE AND MOUNTING AS NOTED; SEE LIGHTING FIXTURE SCHEDULE)	90"
$a	SINGLE POLE SWITCH; a = SWITCH "a"	42"
$2;3;4;K;P	SPECIAL SWITCH: 2-WAY; 3-WAY; 4-WAY; KEY OPERATED; SWITCH WITH PILOT LIGHT	42"
	DUPLEX RECEPTACLE; 3 WIRE GROUND TYPE	18"
GF	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	18"
WP	DUPLEX RECEPTACLE W/ WEATHERPROOF COVER	18"
U	DUPLEX RECEPTACLE W/ USB-C PORT	18"
	SINGLE RECEPTACLE	18"
	DOUBLE DUPLEX RECEPTACLE	18"
A	SPECIAL PURPOSE RECEPTACLE AS NOTED	18"
J, J F	JUNCTION BOX; WALL / CEILING MOUNTED: FLOOR MOUNTED	SEE DRAWINGS
	DATA OUTLET	18"
	ELECTRICAL PANEL - SURFACE MOUNT, FLUSH MOUNT	6'-0" TO TOP
	PLYWOOD TELEPHONE BACKBOARD	AS REQUIRED
	SAFETY DISCONNECT SWITCH	2'-0" TO 6'-0"
	1-PHASE MOTOR	
F	CEILING/WALL MOUNTED FIRE ALARM HORN/STROBE	80"
F	CEILING/WALL MOUNTED FIRE ALARM STROBE	80"
F	FIRE ALARM PULL STATION	42"
F	FIRE ALARM LOW FREQUENCY (520 HZ) TONE HORN	80"
	FIRE ALARM BELL	80"
TS	TAMPER SWITCH	
FS	MASTER FLOW SWITCH	

ELECTRICAL ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE	G.C.	GENERAL CONTRACTOR
A	ABOVE COUNTER	GRD	GROUND
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
CLG	CEILING	MECH	MECHANICAL
C	CONDUIT	PNL	PANEL
E.C.	ELECTRICAL CONTRACTOR	REC	RECEPTACLE
E	EXISTING TO REMAIN	TYP	TYPICAL
FIX	FIXTURE	WP	WEATHER PROOF

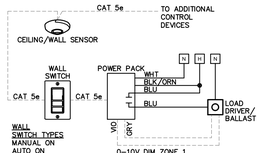
LIGHTING CONTROL LEGEND

- LOW VOLTAGE CEILING MOUNTED SELF-ADJUSTING 2000 SQ. FT. DUAL TECH. MOTION SENSOR WITH 360° FIELD OF VIEW. NX CONTROLS MODEL #NXSMDT-OMNI.
- DAYLIGHT SENSOR FOR AUTOMATIC DIMMING CONTROL OF DAYLIGHTING ZONES. SEE LIGHTING SHEET FOR LOCATION OF ZONES. NX CONTROLS MODEL #NXDS.
- JUNCTION BOX MOUNTED POWER PACK ROOM CONTROLLER -- NX CONTROLS MODEL #NXRCFX2-1RD-UNV. 16A LOAD RATING, 15VDC, 40mA OUTPUT. INSTALL ABOVE ACCESSIBLE CEILING OR AT DECK ABOVE.
- LOW VOLTAGE 2 BUTTON ON/OFF WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-OO. 1-ON/OFF. USED FOR AUTO ON, AUTO OFF OF ONE ZONE.
- LOW VOLTAGE 2 BUTTON ON/OFF WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-OO. 1-ON/OFF. USED FOR MANUAL ON, AUTO OFF OF ONE ZONE.
- O WALL MOUNTED OCCUPANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW -- NX CONTROLS MODEL #LHRMTS-1-N-WH. USED FOR AUTO ON AND AUTO OFF OF ONE ZONE.
- V WALL MOUNTED OCCUPANCY SENSOR W/ FAN CONTROL, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW -- NX CONTROLS MODEL #LHRDCMTD-2-N-WH. USED FOR AUTO ON AND AUTO OFF.
- V WALL MOUNTED OCCUPANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW -- NX CONTROLS MODEL #LHRMTS-1-N-WH. USED FOR MANUAL ON AND AUTO OFF OF ONE ZONE.
- D WALL MOUNTED VACANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW -- MODEL #LHRDMMTS2-N-WH. USED FOR MANUAL RAISE/LOWER, MANUAL ON AND AUTO OFF OF ONE ZONE.
- R LOW VOLTAGE 4 BUTTON ON/OFF, RAISE/LOWER WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-ORLO-WH. USED FOR MANUAL ON, AUTO OFF, MANUAL RAISE/LOWER OF ONE ZONE.

NOTES:
1. REFER TO WIRING DIAGRAMS ON THIS SHEET.
2. SET SENSORS FOR MAXIMUM SENSITIVITY AND TIME DELAYS AS FOLLOWS: RESTROOMS 30 MINUTES, ALL OTHER AREAS 15 MINUTES. SET DAYLIGHT SENSORS IN AUTOMATIC SET POINT PROGRAMMING MODE. COORDINATE FINAL SETTING WITH THE OWNER/TENANT.
3. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. APPROVED EQUALS SHALL BE BY ACUITY, LEVITON, WATTSTOPPER DLM, LUTRON ENERGI TRI-PAK, LSI AIRLINK, & CRESTRON ZUM.
5. AUTOMATIC CONTROLS SHALL INCLUDE FACTORY START-UP AND CONTRACTOR COMMISSIONING. CONTROLS SHALL BE FIELD TESTED TO ENSURE DEVICES ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. FIELD TESTING SHALL OCCUR WHEN FURNITURE AND OWNER EQUIPMENT IS INSTALLED AND WHEN HVAC EQUIPMENT IS OPERATIONAL.

LIGHTING CONTROL NOTES

1. ENCLOSED OFFICES AND MULTIPURPOSE ROOMS SHALL BE MANUAL ON, AUTO OFF, AND MANUAL DIM.
2. LOBBIES, CORRIDORS, & RESTROOMS SHALL BE AUTO ON TO 100%, AUTO OFF, AND SHALL INCLUDE ONE READILY ACCESSIBLE MANUAL CONTROL. CORRIDORS SHALL BE DIMMABLE WHERE SHOWN ON PLANS.
3. APARTMENT CORRIDORS SHALL BE ON AT ALL TIMES FOR SECURITY.
4. AUTOMATIC SHUTOFF IS NOT REQUIRED FOR LIGHTING REQUIRED FOR 23 HOUR OPERATION, AND FOR SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS (INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS).
5. ALL OTHER SPACES SHALL BE MANUAL ON, AUTO OFF, UNLESS NOTED/SHOWN OTHERWISE. REFER TO LIGHTING CONTROL LEGEND FOR DEVICE TYPES AND ASSOCIATED CONTROL SEQUENCES.
6. STRAIGHT LINES BETWEEN DEVICES/LUMINARIES INDICATE SWITCHED CIRCUIT. ARCED LINES INDICATE UNSWITCHED CIRCUIT. LOWER CASE LETTERS DENOTE LIGHTING ZONES.
7. EXTERIOR LIGHTING SHALL BE OFF DURING THE DAY, 100% OUTPUT DURING PEAK NIGHT HOURS FOR TENANT SECURITY.
8. POWER PACKS & WIRING ARE SHOWN ON THE DRAWINGS FOR SPECIFIC CIRCUITING & SWITCHING, EXCEPT WHEN CONTROL INTENT IS CLEAR (EX.-BOUND BY A ROOM). ALL SWITCH CONTROLS & POWER PACKS SHALL BE FURNISHED & INSTALLED AS REQUIRED. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE & FUNCTIONAL BRANCH CIRCUIT WIRING & CONTROL SYSTEM IS FURNSHED & INSTALLED.



WALL SWITCH TYPES
MANUAL ON
AUTO ON
RAISE/LOWER
SCENE

REQUIRED FOR RAISE/LOWER SWITCH & SCENE SWITCH
OMIT FOR MANUAL & AUTO ON

SEQUENCE OF OPERATION
MANUAL ON -- MANUAL ON, AUTO OFF
AUTO ON -- AUTO ON, AUTO OFF
RAISE/LOWER -- MANUAL ON, AUTO OFF, MANUAL RAISE/LOWER
SCENE -- MANUAL ON, AUTO OFF, MANUAL OVERRIDE TO 100%

CEILING MOTION SENSOR

CAT 5e NON-BOOTED PLENUM CABLES, 2 CAT 5e PORTS PER DEVICE
APPROX. 16 DEVICES MAX PER POWER PACK
ADDITIONAL SWITCHES & SENSORS DAISY CHAINED

FIXTURE SCHEDULE

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
S1	7.5" LED SURFACE MOUNTED DISK, 1000LM, 3000K	MAXIM (--)	57613WTWT	14W LED	--
S2	2' LED LINEAR CEILING WRAP, 1600LM, 4000K	NUVO (--)	65-1081	20W LED	--
S3	12" SURFACE MOUNTED DOME	NUVO (--)	60-3271	(1) 9.8W LED BULB (S11408)	--
S4	10" SURFACE MOUNTED DOME	NUVO (--)	SF76-674	(2) 9.8W LED BULB (S11408)	--
S5	4' SURFACE MOUNTED LINEAR LED, 4000LM, 3500K	CURRENT (--)	MPS-4-35-LW-C-W-ED-U	26.9W LED	--
S6	54" CLOSED AND GASKETED FIRBERGLASS INDUSTRIAL UL WET LOCATION LISTED	LITHONIA (--)	VAP-4000LM,PCL-WD-MVOLT-GZ10-35K-80CRI	33W LED	--
P1	LED PENDANT	QUORUM (--)	822-165	(1) 9.8W LED BULB (S11408)	--
P2	--	-- (--)	--	--	--
P3	--	-- (--)	--	--	--
R1	2X2 LED FLAT PANEL W/ SWITCHABLE LUMEN OUTPUT	COLUMBIA (--)	CBT22-L35	38W LED	SET TO MEDIUM LUMEN OUTPUT.
R2	2X4 LED FLAT PANEL W/ SWITCHABLE LUMEN OUTPUT	COLUMBIA (--)	CBT24-L35	48W LED	SET TO MEDIUM LUMEN OUTPUT.
W1	EXTERIOR WALL SCONCE	KICHLER (--)	9735BK	(1) 9.8W LED BULB (S11408)	--
W2	EXTERIOR WALL SCONCE	MAXIM LIGHTING (--)	1026 BK	(1) 9.8W LED BULB (S11408)	--
W3	EXTERIOR WALL SCONCE	KICHLER (--)	49183BK	(1) 9.8W LED BULB (S11408)	--
W4	EXTERIOR GOOSENECK WALL SCONCE	VISUAL COMFORT (--)	8837401EN3-12	(1) 9W LED BULB (INCLUDED)	--
V1	VANITY WALL SCONCE	NUVO (--)	60-5823	(3) 9.8W LED BULB (S11408)	--
CLF1	WHITE CEILING FAN W/ LED BULBS INCLUDED	KICHLER (--)	330017MWH	(3) 9.8W LED BULB (S11408), 52W HIGH, 81.4W TOTAL	--
CLF2	CEILING FAN	-- (--)	--	--	--
EX1	ONE SIDED LED EDGE LIT EXIT SIGN W/ REMOTE CAPACITY	LITHONIA (COMPASS)	LHQM-LED-R-HO RO	<5W LED	--
EM1	EMERGENCY LED WALL PACK	LITHONIA (COMPASS)	ELM2L	<5W LED	--
EM2	EMERGENCY LED REMOTE HEADS	LITHONIA (COMPASS)	ELA-T-SD-QWP	<5W LED	POWER FROM EX1
PL1	LED POLE MOUNTED FIXTURE, 21,000LM, 4000K, TYPE 3 DIST. W/ INTEGRAL PHOTOCELL	BEACON (--)	VP-2-320L-145-4K7-3-UNV-A	145W LED	MOUNT AT 25' A.F.F.
PL2	LED POLE MOUNTED FIXTURE, 21,000LM, 4000K, TYPE 4 DIST. W/ INTEGRAL PHOTOCELL	BEACON (--)	VP-2-320L-145-4K7-4-UNV-A	145W LED	MOUNT AT 25' A.F.F.
BL1	LED BOLLARD FIXTURE, 1,000LM, 4000K, TYPE 1 DIST.	KIM LIGHTING (--)	PA7R-CT-NU-1-12L-010-4K7	14W LED	--
BL2	LED BOLLARD FIXTURE, 1,000LM, 4000K, TYPE 5 DIST.	KIM LIGHTING (--)	PA7R-CT-NU-5-12L-010-4K7	14W LED	--

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL DETAILS

E-400-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	--	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E-400

CD PROGRESS SET

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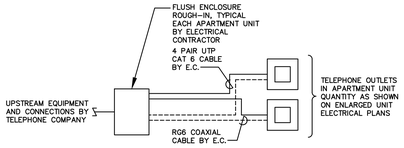
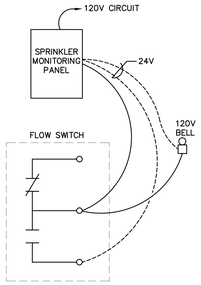


APARTMENT TELECOM WIRING DIAGRAM

SCALE: NONE



FIRE ALARM SPRINKLER MONITORING PANEL WIRING DIAGRAM

SCALE: NONE

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan

300 SPRUCE STREET
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E-401

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E-401-24217.DWG

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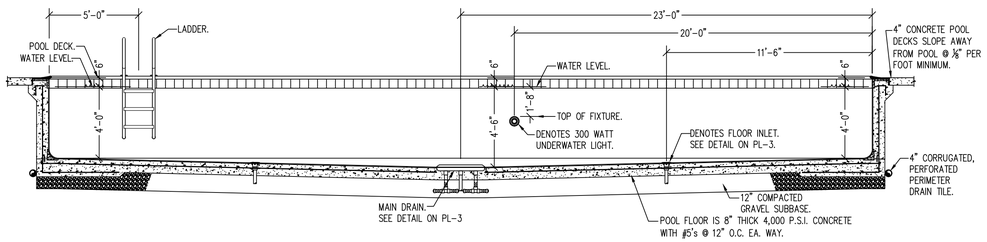
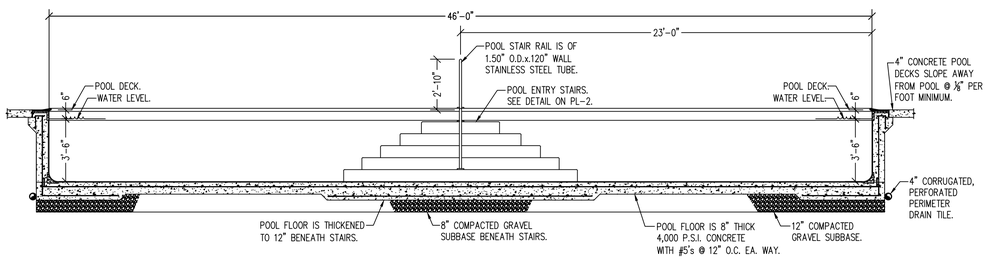
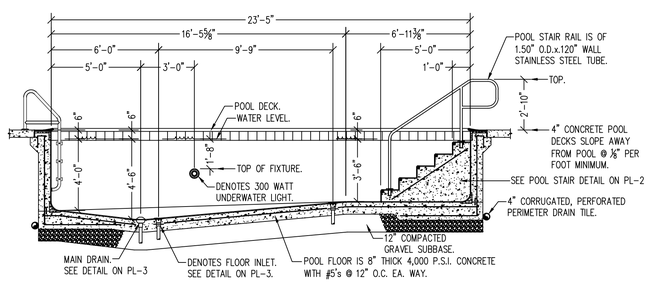
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217



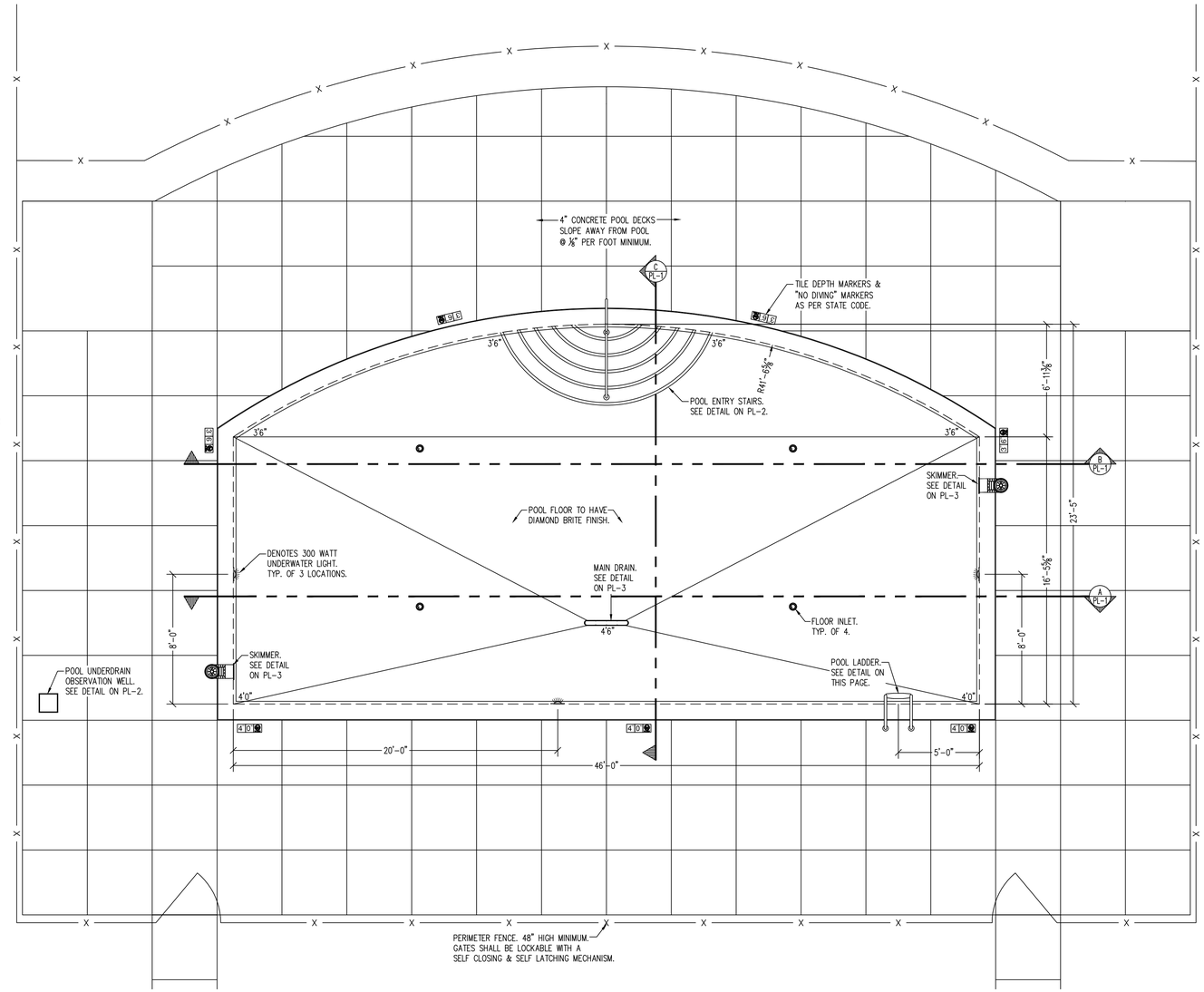
POOL SECTION "A"
SCALE 1/4" = 1'-0"



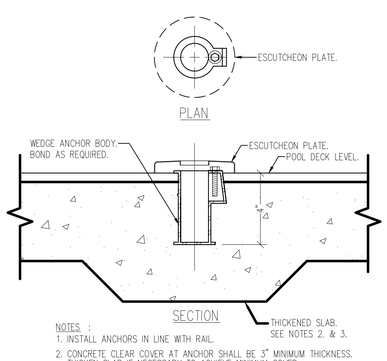
POOL SECTION "B"
SCALE 1/4" = 1'-0"



POOL SECTION "C"
SCALE 1/4" = 1'-0"

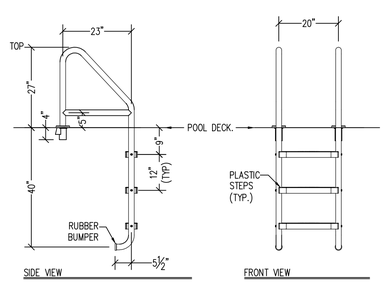


POOL DECK PLAN
SCALE 1/4" = 1'-0"

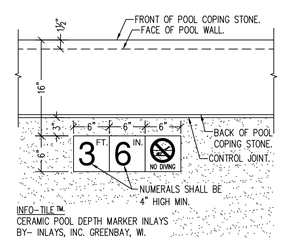


NOTES :
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM THICKNESS. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MINIMUM THICKNESS.

TYP. ANCHOR SOCKET DETAIL
SCALE 3" = 1'-0"



POOL LADDER DETAIL
SCALE 1/2" = 1'-0"



DEPTH MARKER:

1.- DEPTH MARKER TILES SHALL BE NON-SLIP TILE WITH 4" HIGH CONTRASTING NUMERALS AND LETTERS.

2.- DEPTH MARKER TILES SHALL BE RECESSED SO THAT THE FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL DECK.

3.- DEPTH SHALL BE VERIFIED BY SECTION 013150 CONTRACTOR AND MARKERS SHALL BE INSTALLED TO INDICATE ACTUAL DEPTH OF WATER.

4.- DEPTH MARKERS SHALL BE SPACED AT NOT MORE THAN 25 FEET INTERVALS, MEASURED PERIPHERALLY. REFER TO PLAN FOR APPROXIMATE LOCATION.

"NO DIVING" MARKER:

1.- NO DIVING TILES SHALL BE NON-SLIP TILE WITH 4" HIGH CONTRASTING NUMERALS AND LETTERS OR PICTOGRAM.

2.- NO DIVING TILES SHALL BE RECESSED SO THAT THE FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL DECK.

3.- DEPTH SHALL BE VERIFIED BY SECTION 013150 CONTRACTOR AND NO DIVING TILES SHALL BE INSTALLED AT WATER DEPTHS OF 5' OR LESS.

4.- NO DIVING TILES SHALL BE SPACED AT NOT MORE THAN 25 FEET INTERVALS, MEASURED PERIPHERALLY. REFER TO PLAN FOR APPROXIMATE LOCATION.

POOL DEPTH MARKER DETAIL
SCALE 1" = 1'-0"

NOTES:
POOL DISCHARGE SHALL BE IN ACCORDANCE WITH OHIO EPA.
DECK/GENERAL:
(A) DECKS SHALL BE SLOPED TO PREVENT STANDING WATER
(B) DECKS SHALL NOT DRAIN BACK INTO POOL OR CIRCULATION SYSTEM
(C) POOL WARNING SIGNS COMPLYING WITH THE OHIO ADMINISTRATED CODES 3701-31-04 AND 3701-31-05.1 SHALL BE POSTED BY THE POOL.

NOTES:
PERIMETER BARRIER SHALL BE NOT LESS THAN 48" TALL FROM THE GROUND.

ALL GATES, DOORS SHALL BE SELF-CLOSING, SELF-LATCHING, AND LOCKABLE.

WINDOW OPENINGS THAT ARE PART OF PERIMETER BARRIER SHALL OPEN LESS THAN 4".

ACTUATING DEVICE FOR LATCHING MECHANISM SHALL NOT BE LESS THAN 38" ABOVE GROUND.

PERIMETER BARRIER SHALL HAVE NO HORIZONTAL MEMBERS THAT WOULD MAKE BARRIER CLIMBABLE.

ALL GAPS IN THE PERIMETER BARRIER SHALL BE LESS THAN 4 INCHES.

CD PROGRESS SET. NOT FOR CONSTRUCTION

REVISIONS

DESIGNED BY: P.T.P.
DRAWN BY: T.D.R.
CHECKED BY:
DATE: 05/01/2025

POOL DECK PLAN, SECTIONS & DETAILS
C.M.H.A. Refugee Road Columbus, Ohio

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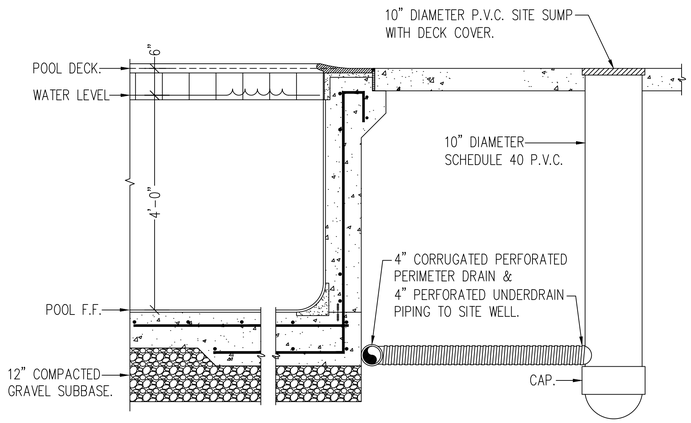
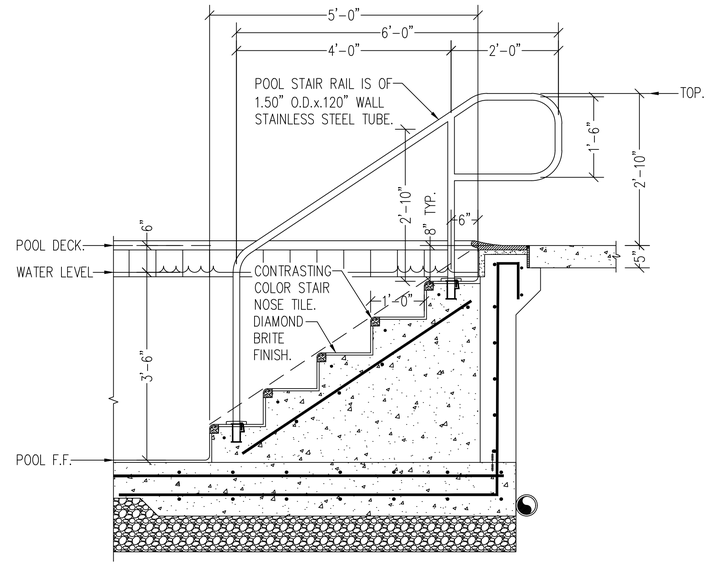
SHEET NUMBER
PL-1

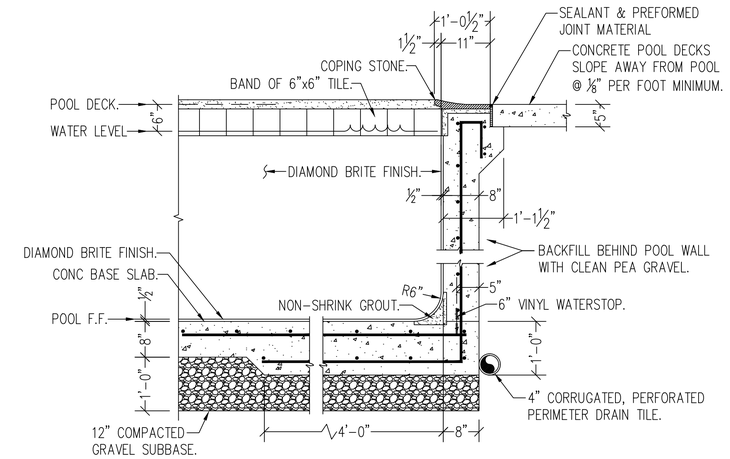
\Scans\Drawings\CMHA REFUGEE RD\CMHA Refugee Rd- TP.dwg (REV. 05/01/2025)



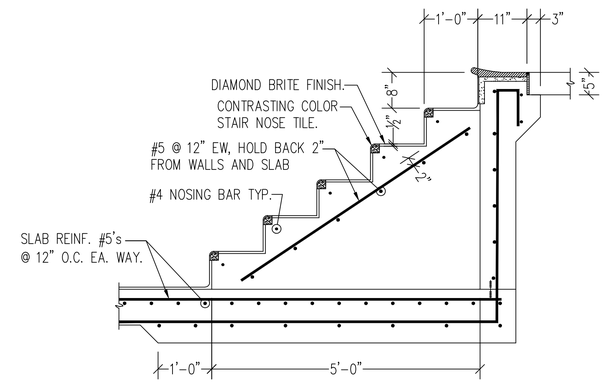
POOL UNDERDRAIN OBSERVATION WELL DETAIL
SCALE 3/4" = 1'-0"



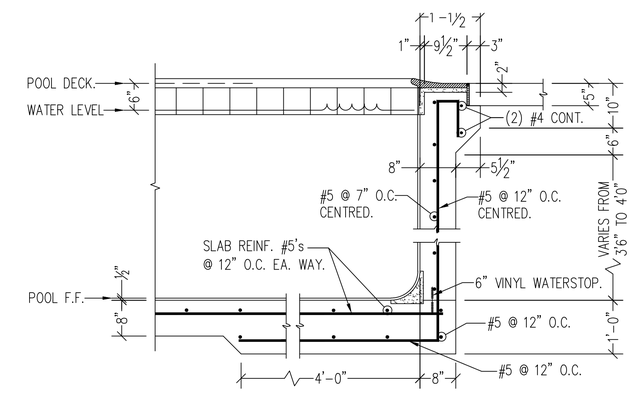
POOL ENTRY STAIRS DETAIL
SCALE 3/4" = 1'-0"



TYPICAL POOL WALL DETAIL
SCALE 3/4" = 1'-0"



POOL ENTRY STAIRS REINFORCING DETAIL
SCALE 3/4" = 1'-0"



TYPICAL POOL WALL DETAIL REINFORCING DETAIL
SCALE 3/4" = 1'-0"

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REVISIONS

DESIGNED BY: P.T.P.
DRAWN BY: T.D.R.
CHECKED BY:
DATE: 05/01/2025

POOL CONSTRUCTION DETAILS

C.M.H.A. Refugee Road Columbus, Ohio

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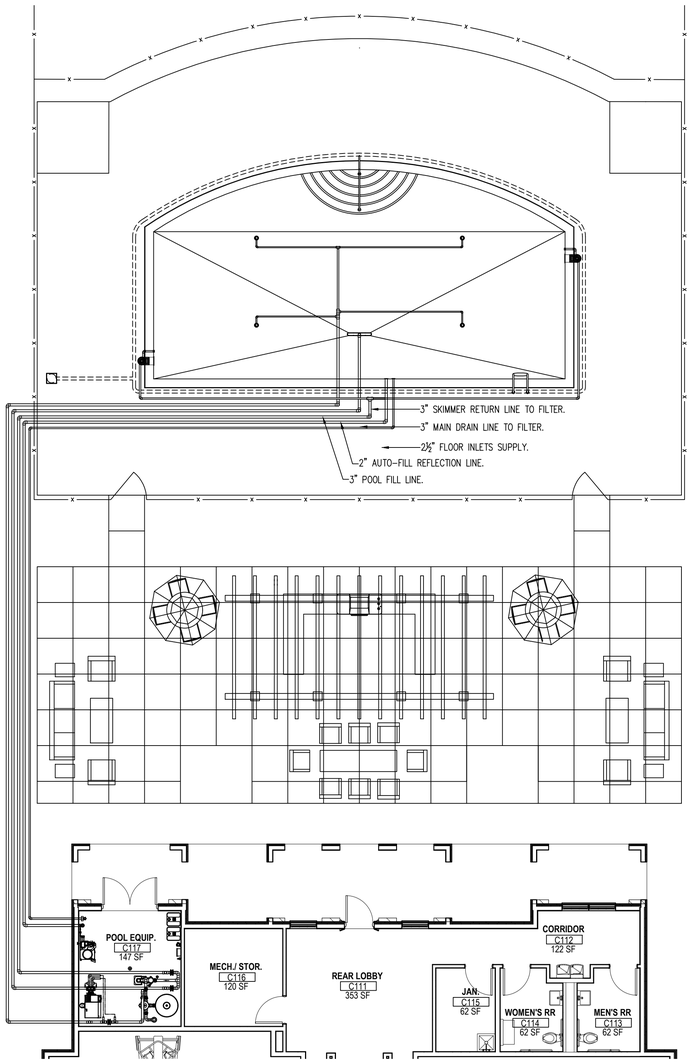
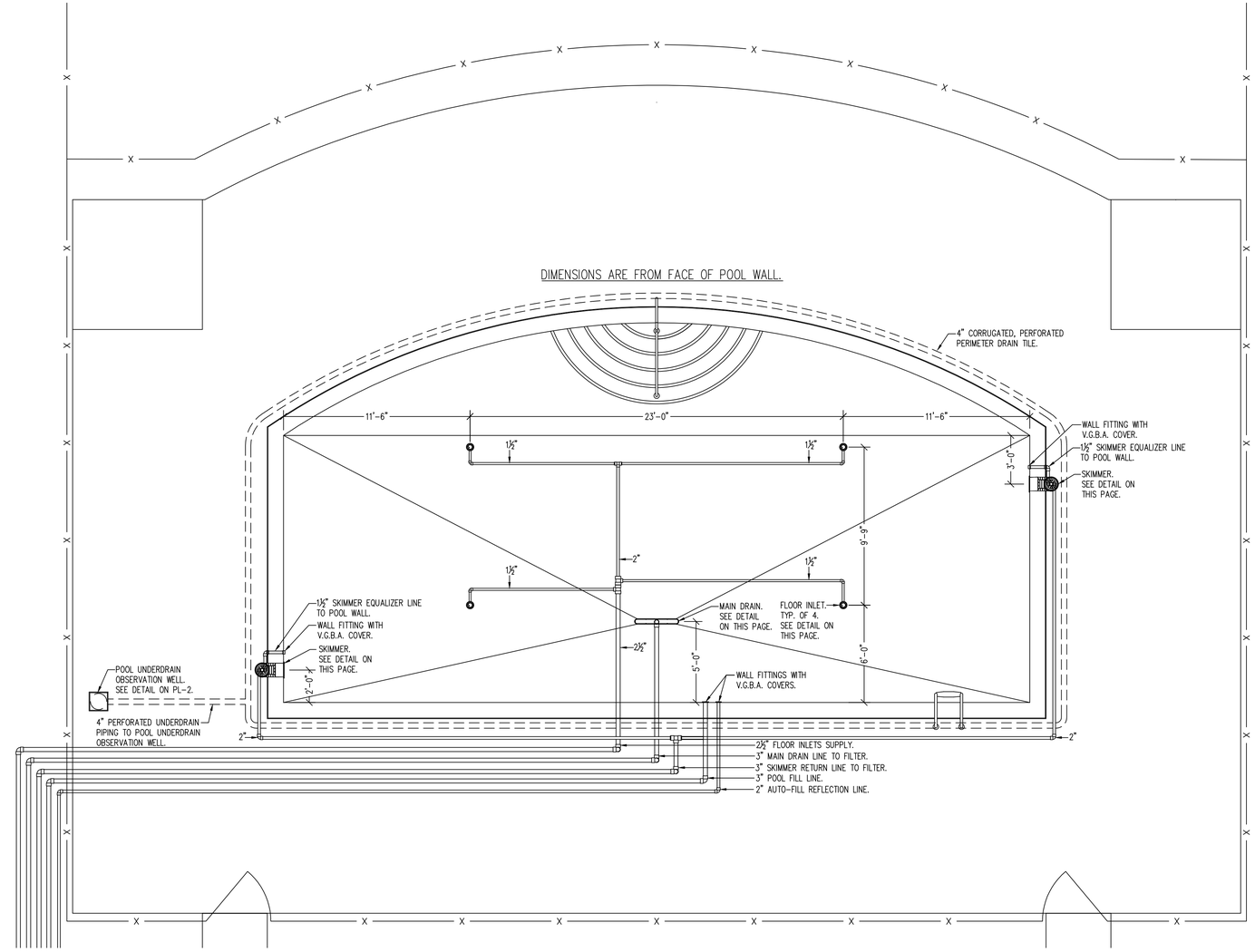
SHEET NUMBER

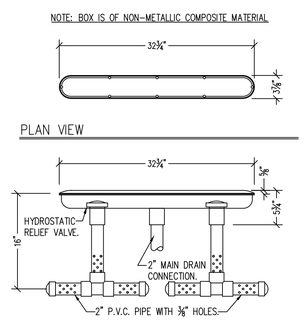
PL-2



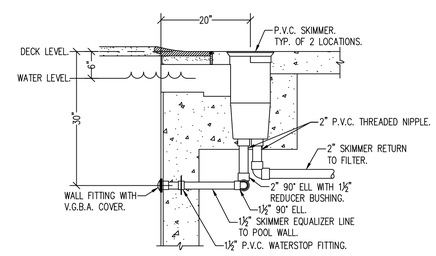
POOL PIPING PLAN
SCALE 1/8" = 1'-0"



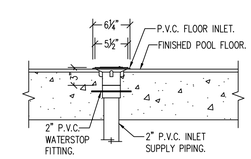
ENLARGED POOL PIPING PLAN
SCALE 1/4" = 1'-0"



MAIN DRAIN DETAIL
SCALE 1" = 1'-0"



SKIMMER DETAIL
SCALE 3/4" = 1'-0"



FLOOR INLET DETAIL
SCALE 1" = 1'-0"

CD PROGRESS SET. NOT FOR CONSTRUCTION

REVISIONS

DESIGNED BY: P.T.P.
DRAWN BY: T.D.R.
CHECKED BY:
DATE: 05/01/2025

POOL EXTERIOR PIPING PLAN & COMPONENT DETAILS
C.M.H.A. Refugee Road Columbus, Ohio

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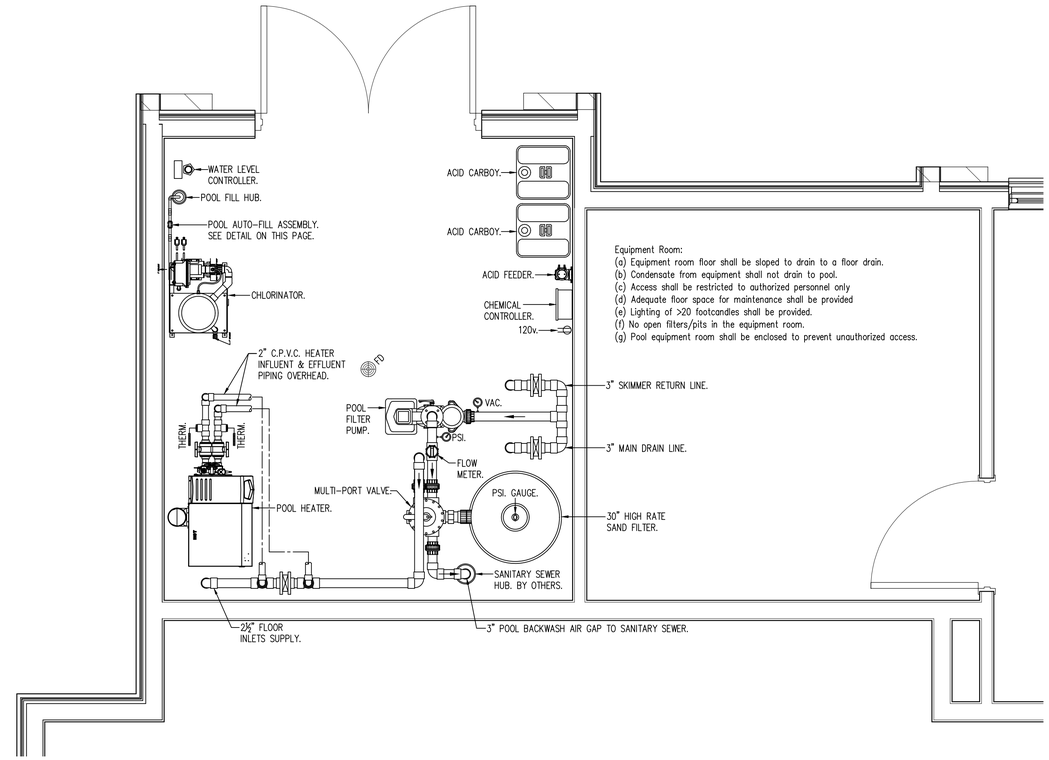
SHEET NUMBER
PL-3

\Scans\Drawings\CMHA REFUGEE RD\CMHA Refugee Rd- TP.dwg (REV. 05/01/2025)

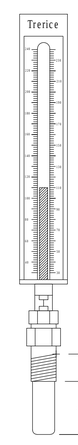
POOL EQUIPMENT DATA

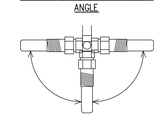
POOL VOLUME	27,200 Gallons
FILTER TYPE	High Rate Sand
MANUFACTURER	Pentair
MODEL NO.	TR100C
NO.OF FILTERS	1
S.F. FILTER AREA	4.91
FILTER RATE	13.24 gpm / sq.ft.
BACKWASH RATE	15.0 gpm / sq.ft. (74 GPM)
REQUIRED SEWER CAPACITY	74 gpm
MAIN POOL PUMP:	Pentair
HORSEPOWER	3 HP
RPM	3500 rpm
GPM	65 GPM
TDH	60' TDH
VOLTAGE	208-230/1/60
PHASE	1 phase
MODEL NO.	Whisperflo 011077
HAIR/LINT STRAINER	Integral w/pump. W/extra basket
DESIGN TURNOVER RATE	420 minutes, 65 GPM
CHLORINATOR TYPE	Accutab 1030
MURATIC ACID PUMP	Stenner 45M1
AUTOMATIC CHEMICAL CONTROLLER	Hayward
MODEL NO.	CAT 4000
FLOW METER	H2Flow
MODEL NO.	FV-25
HEATER	Lochinvar ERN252A
MAIN DRAIN	Waterway 640-1360V
MAIN DRAIN LINE	3" 3.14fps
GUTTER LINE	3" 3.14fps
SUPPLY LINE	2.5" 4.92fps



POOL MECHANICAL EQUIPMENT ROOM PLAN

SCALE 1/2" = 1'-0"





NOTES:

1. ALL THERMOMETERS SHALL BE A40 SERIES. THEY SHALL HAVE A SEPARABLE BRASS SOCKET AND A RANGE NUMBER OF 07 (30 TO 240 DEGREE FAHRENHEIT RANGE).

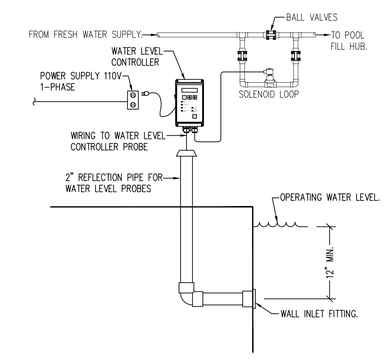
2. INSTALL THERMOMETER IN INFLUENT AND EFFLUENT HEATER LINES AS WELL AS IN MAIN RETURN LINE AFTER HEATER EFFLUENT LINE.

3. THERMOMETERS SHALL BE INSTALLED BY THREADING SOCKET INTO FEMALE ADAPTER.

U INSERTION LENGTH	A STEM LENGTH	N.P.T.	9" SCALE CASE	
			OLD CAT. NO.	NEW CAT. NO. BRASS STEM
2 1/2"	3 1/2"	3/4"	BX91403-1/2	A405
5"	6"	3/4"	BX91406	A406
7"	8"	3/4"	BX91408	A407
11"	12"	1"	BX91512	A408

POOL HEATER THERMOMETER DETAIL

SCALE 1" = 1'-0"



AUTO-FILL ASSEMBLY DETAIL

SCALE 1" = 1'-0"

CD PROGRESS SET. NOT FOR CONSTRUCTION

REVISIONS

DESIGNED BY: P.T.P.
DRAWN BY: T.D.R.
CHECKED BY:
DATE: 05/01/2025

POOL EQUIPMENT ROOM PLAN & EQUIPMENT DETAILS

C.M.H.A. Refugee Road Columbus, Ohio

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