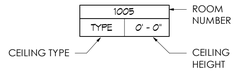
SENIOR & VETERAN SERVICES CENTER

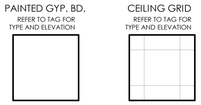
DUPLIN COUNTY

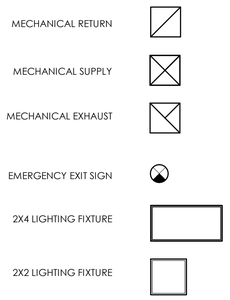
DUPLIN COMMONS DR & FAIRGROUND DR
KENANSVILLE, NC 28349

CEILING SYMBOLS

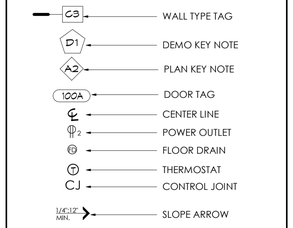
CEILING ROOM TAG





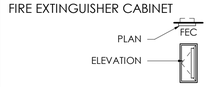


GENERAL SYMBOLS



OPENING TAG

FIRE EXTINGUISHER CABINET

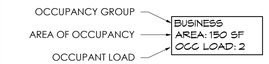


EMERGENCY WALL LIGHT

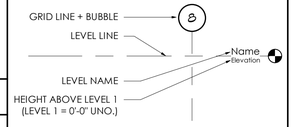
SPRINKLER VALVE CABINET

ROOM TAG

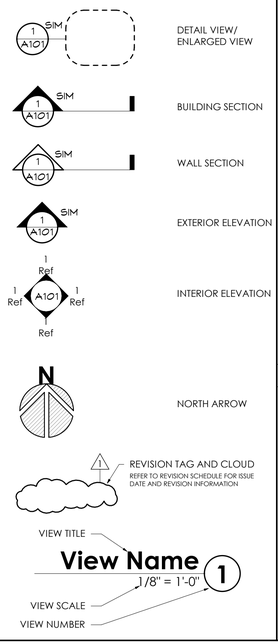
OCCUPANCY TAG



AREA DESIGNATION



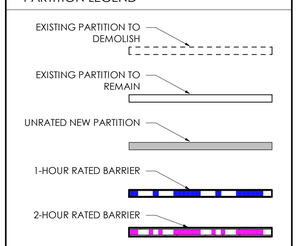
VIEW TYPES:



ARCHITECTURAL ABBREVIATIONS

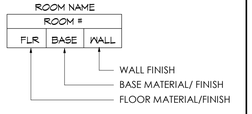
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT OF 1992
ADJ.	ADJACENT
AFF	ABOVE FLOOR FINISH
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ANOD	ANODIZED
ARA	AREA OF RESCUE ASSISTANCE
BD	BOARD
B/W	BETWEEN
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
CAN	CANOPY
CI	CAST IRON
CPT	CARPET
CLG. HT.	CEILING HEIGHT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CRS	CHAIN ROLLER SHADE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DWG.	DRAWINGS
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
EQ	EQUAL
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
GYP	GYPSUM
GC	GENERAL CONTRACTOR
GLS	GLASS
HB	HOSE BIB
HDW	HARDWARE
HLB	HORIZONTAL LOUVER BLIND
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEAT, VENTILATION & AIR CONDITIONS
HWC	HOLLOW CORE WOOD DOOR
INSUL	INSULATION
INT	INTERIOR
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MANUF	MANUFACTURER
MECH.	MECHANICAL
MIN.	MINIMUM
MO	MASONRY OPENING
MRS	MOTORIZED ROLLER SHADE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.P.C.I.	OWNER PROVIDED CONTRACTOR INSTALLED
OPP.	OPPOSITE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PGB	PAINTED GYPSUM BOARD
PT	PAINT
RB	RUBBER BASE
RD	ROOF DRAIN
REINF	REINFORCED
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
SAB	SOUND ABATING BATTING
SD	SMOKE DETECTOR
SF	SQUARE FEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL DRAWINGS
SWC	SOLID WOOD CORE
SY	SQUARE YARD
CT	CERAMIC TILE
TERM	TERMINATION/TERMINATE
TF	
THRESH	THRESHOLD
T&G	TONGUE AND GROOVE
TO	TOP OF
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TRANSITION STRIP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VCT	VINYL COMPOSITE TILE
WC	WATER CLOSET
WB	WOOD BASE
WD	WOOD
W/	WITH
W/O	WITHOUT

PARTITION LEGEND



FINISH SYMBOLS

ROOM FINISH TAG



FLOOR MATERIALS/FINISH LEGEND

CPT	CARPET
CT	CERAMIC TILE
EC	EXPOSED CONCRETE, SEALED
EX	EXPOSED
SC	SEALED CONCRETE
LVT	LUXURY VINYL TILE
VCT	VINYL COMPOSITION TILE

BASE MATERIALS/FINISH LEGEND

RB	RUBBER BASE
PW	PAINTED WOOD
SW	STAINED WOOD
CTB	CERAMIC TILE BASE

WALL MATERIALS/FINISH LEGEND

PM	PAINTED MASONRY
PT	PAINTED
VW	VINYL WALL COVERING
CT	CERAMIC TILE GLAZED WALL
E	EXPOSED CONSTRUCTION, UNPAINTED
EP	EXPOSED CONSTRUCTION, PAINTED
ES	EXPOSED STEEL, UNPAINTED
PS	EXPOSED STEEL, PAINTED
PGB	PAINTED GYPSUM BOARD

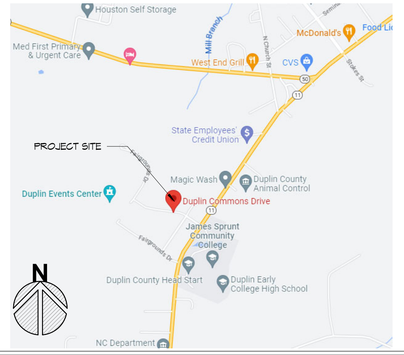
CEILING MATERIALS/FINISH LEGEND

ACT	ACOUSTICAL PANEL CEILING
GYP	PAINTED GYPSUM BOARD
EX	EXPOSED CONSTRUCTION, UNPAINTED
EP	EXPOSED CONSTRUCTION, PAINTED
VAR	VARIES, HEIGHT
FCB	FIBER CEMENT BOARD SOFFIT PANEL
FCB-B	FIBER CEMENT BOARD - BEAD BOARD
WD	WOOD-LOOK METAL SOFFIT PANELING
PGMGB	PAINTED GLASS MAT GYPSUM BOARD - EXTERIOR

*NOTE REGARDING ALL FINISH TAGS - IF DESIGNATION IS FOLLOWED BY NUMERAL, DENOTES SPECIFIC MATERIAL TYPE WITHIN CATEGORY (REFER TO FINISH SCHEDULE)

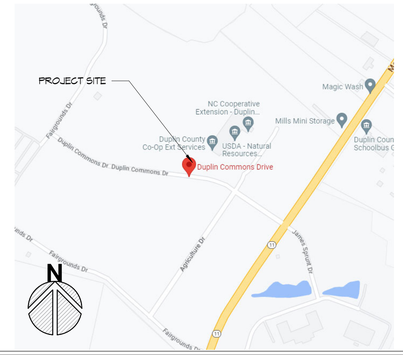
VICINITY MAP:

ADDRESS



LOCATION MAP:

ADDRESS



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G2.12	MEZZANINE/EQUIPMENT PLATFORM LIFE SAFETY PLAN	07/21/23		
G3.01	INTERIOR PARTITION SCHEDULE	07/21/23		
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A1.03	ROOF PLAN	07/21/23		
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A2.11	BUILDING SECTIONS	07/21/23		
A2.12	BUILDING SECTIONS	07/21/23		
A3.01	WALL SECTIONS	07/21/23		
A3.02	WALL SECTIONS	07/21/23		
A3.03	WALL SECTIONS	07/21/23		
A3.04	WALL SECTIONS	07/21/23		
A3.11	STAIR AND ACCESS LADDER PLANS, SECTIONS, & DETAILS	07/21/23		
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A4.04	ENLARGED PLANS & INTERIOR ELEVATIONS	07/21/23		
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A7.01	CASEWORK SECTIONS	07/21/23		
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A7.12	INTERIOR SECTIONS AND DETAILS	07/21/23		
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A9.01	FINISH PLAN FIRST FLOOR	07/21/23		
A9.02	FINISH PLAN MEZZANINE	07/21/23		

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E1.03	ELECTRICAL LIGHTING PLAN	07/21/23		
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ES1.01	ELECTRICAL SITE PLAN	07/21/23		
ES2.01	ELECTRICAL SITE DETAILS	07/21/23		
E2.01	ELECTRICAL DETAILS	07/21/23		
E2.02	ELECTRICAL DETAILS	07/21/23		
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E4.01	ELECTRICAL SCHEDULES	07/21/23		
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FA2.02	FIRE ALARM NOTES	07/21/23		

INTREPID ARCHITECTURE
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www.INTREPIDarchitecture.com

DANIELS AND DANIELS CONSTRUCTION CO. INC.

SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KENANSVILLE, NC 28349

INTREPID Architecture PA
Registered Architectural Corporation
North Carolina
53628
GREENVILLE, NC

ALBRECHT M. ALTHORN
REGISTERED ARCHITECT
11208
NORTH CAROLINA
GREENVILLE, NC
07/21/23

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO/DJH
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

VICINITY MAP, DRAWING INDEX, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

G1.01

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 - FAMILY DWELLINGS AND TOWNHOUSES)
(REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLAN SHEET 1 OR 2)

NAME OF PROJECT: DUPLIN COUNTY SENIOR CENTER & VETERANS CENTER
ADDRESS: DUPLIN COMMONS DRIVE & FAIRGROUND DR., KENANSVILLE, NC ZIP CODE: 28349
PROPOSED USE: ASSEMBLY (A-2)
OWNER OR AUTHORIZED AGENT: DUPLIN COUNTY - DAVIS BRINSON PHONE #: 910-296-2100 E-MAIL: brinson@duplincountync.com
OWNED BY: ■ CITY/COUNTY ☐ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ■ CITY: KENANSVILLE, NC ☐ COUNTY: ☐ STATE:

LEAD DESIGN PROFESSIONAL

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE	E-Mail
ARCHITECTURAL:	INTREPID Architecture, PA	ALBRECHT N. MCLAWHORN, AIA	NC 11208	252.270.5330	ALBIM@INTREPIDARCHITECTURE.COM
CIVIL:	ARK CONSULTING GROUP, PLLC	SCOTT T. ANDERSON, PE	NC 28425	252.558.0888	SCOTT@ARKCONSULTINGGROUP.COM
ELECTRICAL:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
FIRE ALARM:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
PLUMBING:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
MECHANICAL:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
SPRINKLER/STANDPIPE:	DELEGATED DESIGN				
STRUCTURAL:	LYNCHMYKINS	CHRISTINE BENDIXEN, PE	NC 30253	919.830.1303	CBENDIXEN@LYNCHMYKINS.COM
RETAINING WALLS >5' HIGH:	N/A	-	-	-	-
OTHER:	N/A	-	-	-	-

"OTHER" should include firms and individuals such as truss, precast, pre-engineering, interior designers, etc.)

2018 NC BUILDING CODE: ■ NEW BUILDING ☐ ADDITION ☐ RENOVATION
☐ 1ST TIME INTERIOR COMPLETION ☐ SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
☐ PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ PRESCRIPTIVE ☐ REPAIR ☐ CHAPTER 14
☐ LEVEL I ☐ LEVEL II ☐ LEVEL III
☐ HISTORIC PROPERTY ☐ CHANGE OF USE

CONSTRUCTED *(date)* N/A **CURRENT OCCUPANCY(S)** *(Ch. 3)* N/A
RENOVATED *(date)* N/A **PROPOSED OCCUPANCY(S)** *(Ch. 3)* ASSEMBLY (A-2)

RISK FACTOR *(Table 1604.5)*: **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ■ III ☐ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: *(Check all that apply)* ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ■ V-B
SPRINKLERS: ☐ NO ☐ PARTIAL ■ YES ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ■ NO ☐ YES CLASS: ☐ I ☐ II ☐ III ☐ WET ☐ DRY MANUAL
FIRE DISTRICT: ■ NO ☐ YES FLOOD HAZARD AREA: ■ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED: ■ NO ☐ YES CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES AND REQUIREMENTS

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING (SQ. FT.)	RENOVATION AREA (SQ. FT.)	SUB TOTAL
EQUIP. PLATFORM:	492 (Not counted in total floor area)		492 (Not counted in total floor area)
MEZZANINE:	1101 (Not counted in total floor area)	0	1101 (Not counted in total floor area)
1ST FLOOR:	12363	0	12000
TOTAL:	12363		12363

ALLOWABLE AREA

PRIMARY OCCUPANCY: *(SELECT ONE)*
ASSEMBLY ☐ A-1 ■ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS ☐
EDUCATIONAL ☐
FACTORY ☐ F-1 Moderate ☐ F-2 Low
HAZARDOUS ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
INSTITUTIONAL ☐ I-1 CONDITION ☐ 1 ☐ 2
☐ I-2 CONDITION ☐ 1 ☐ 2
☐ I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
MERCANTILE ☐
RESIDENTIAL ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
UTILITY & MISC. ☐

ACCESSORY OCCUPANCY CLASSIFICATION(S): None
INCIDENTAL USES *(Table 509)*: None
SPECIAL USES (Chapter 4 - List Code Sections): None
SPECIAL PROVISIONS: (Chapter 5 - List Code Sections): None
MIXED OCCUPANCY: ☐ YES ■ NO SEPARATION: N/A HR: EXCEPTION: -

☐ NON-SEPARATED USE (508.3) - THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☐ SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A	+	ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B	=	< 1.00
			=	< 1.00
	+		+	

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2 * AREA	(C) AREA FOR FRONTAGE INCREASE **	(D) ALLOWABLE AREA PER STORY OR UNLIMITED *
EQUIP. PLATFORM	MECH ACCESS & SERVICE	1354*			8242*
MEZZANINE	STORAGE	241**			4121**
1ST	ASSEMBLY (A-2)	12363	24000	18000	42000
			-		
TOTAL		12000	24000	18000	42000

* FRONTAGE AREA INCREASE FROM SECTION 506.3 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = 653'-4" (F)
B. TOTAL BUILDING PERIMETER = 653'-4" (P)
C. RATIO (F/P)= - (F/P)
D. W= MINIMUM WIDTH OF PUBLIC WAYS= 30' (W)
E. PERCENT OF FRONTAGE INCREASE I = 100 [F/P-0.25] x W/30 = 75 (%)
* UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
* MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x D (506.2).
* MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.
*FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.
* MAX AREA FOR MECHANICAL PLATFORM IS 2/3 OF FLOOR BELOW PER SECTION 505.5.1, and is not included in the total building area
** MAX AREA FOR MEZZANINE IS 1/3 OF FLOOR BELOW PER SECTION 505.2.1, and is not included in the total building area

ALLOWABLE HEIGHT:

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE *
BUILDING HEIGHT IN FEET (Table 504.3)*	60'	18'-11"	NCBC Table 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)*	2	1	NCBC Table 504.4

* PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4
THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5.

FIRE PROTECTION REQUIREMENTS:

Notes:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____" REDUCTION)	DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES		0	0	-	-	-	-
BEARING WALLS							
EXTERIOR							
NORTH	>30	0	0	-	-	-	-
EAST	>30	0	0	-	-	-	-
WEST	>30	0	0	-	-	-	-
SOUTH	>30	0	0	-	-	-	-
INTERIOR	-	0	0	-	-	-	-
NON-BEARING WALLS & PARTITIONS							
EXTERIOR WALLS							
NORTH	>30	0	0	-	-	-	-
EAST	>30	0	0	-	-	-	-
WEST	>30	0	0	-	-	-	-
SOUTH	>30	0	0	-	-	-	-
INTERIOR WALLS AND PARTITIONS		1**	1**	4/A3.11	UL 305	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS						-	-
FLOOR CEILING ASSEMBLY		N/A	-	-	-	-	-
COLUMNS SUPPORTING FLOORS		0	0	-	-	-	-
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS		0	0	-	-	-	-
ROOF CEILING ASSEMBLY		0	0	-	-	-	-
COLUMNS SUPPORTING ROOFS		0	0	-	-	-	-
SHAFT ENCLOSURES - EXIT		N/A	-	-	-	-	
SHAFT ENCLOSURES - OTHER		N/A	-	-	-	-	
CORRIDOR SEPARATION (EGESS)		0	0	-	-	-	-
OCCUPANCY/FIRE BARRIER SEPARATION		N/A	-	-	-	-	-
PARTY/FIRE WALL SEPARATION		N/A	-	-	-	-	-
SMOKE BARRIER SEPARATION		N/A	-	-	-	-	-
SMOKE PARTITION		N/A	-	-	-	-	-
RADIO AMPLIFICATION SYSTEM		N/A	-	-	-	-	-
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION		N/A	-	-	-	-	-
INCIDENTAL USE SEPARATION		1***	1***	4/A3.11	UL 1501	-	-

* INDICATE SECTION NUMBER PERMITTING REDUCTION
** FIRE PUMP ROOM ONLY PER 913.2.1, EXCEPTION 1. ***FOR OCCUPANCY UNDER MEZZANINE STAIR

PERCENTAGE OF WALL OPENING CALCULATIONS: (N/A - EXISTING)

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UP, S	NO LIMIT	N/A

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING: ☐ NO ■ YES
EXIT SIGNS: ☐ NO ■ YES
FIRE ALARM: ☐ NO ■ YES
SMOKE DETECTION SYSTEMS: ☐ NO ■ YES ☐ Partial
CARBON MONOXIDE DETECTION: ☐ NO ■ YES

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET#: G2.11 & G2.12

■ Fire and/or smoke rated wall locations (Chapter 7)
■ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8) N/A
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Occupant loads for each area
■ Exit access travel distances (1017)
■ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
■ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation N/A
■ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) N/A
☐ Location of doors with electromagnetic egress locks (1010.1.9.9) N/A
☐ Location of doors equipped with hold-open devices N/A
☐ Location of emergency escape windows (1030) N/A
☐ The square footage of each fire area (202) N/A
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) N/A
☐ Note any code exceptions or table notes that may have been utilized regarding the items above N/A
■ Actual occupant load for each exit door

ACCESSIBLE DWELLING UNITS *(SECTION 1107)*: N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL # ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING *(Section 1106)*:

LOT OR PARKING AREA	TOTAL NUMBER OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # OF ACCESSIBLE SPACES PROVIDED
				VAN SPACES WITH		
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
	80	80	6	5		11
TOTAL:						

PLUMBING FIXTURE REQUIREMENTS *(SECTION 2902.1)*:

USE: ASSEMBLY (A-2)		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS	SERVICE SINKS
SPACE	CALC. FACTOR	1/75	1/75	-	-	1/200	1/200	-	-	1/500	-
A-3	REQUIRED	3	3	-	-	1	1	-	0	1	1
	PROVIDED	3	5	2	2*	3	3	2	0	6	3

* Urinals are provided as substitute for men's room Water Closets. Urinal substitution percentage meets NCBC Plumbing Code section 419.2 substitution requirements.

SPECIAL APPROVALS: SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)
NONE

ENERGY SUMMARY:

ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ NO ☐ YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE) ■ N/A
EXEMPT BUILDING: ■ NO ☐ YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)
CLIMATE ZONE: ■ 3A ☐ 4A ☐ 5A
METHOD OF COMPLIANCE: ENERGY CODE ☐ PERFORMANCE ■ PRESCRIPTIVE
ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESCRIPTIVE IF "OTHER" SPECIFY SOURCE HERE

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: PLYWOOD SHEATHING, WATERPROOFING MEMBRANE, 5" RIGID INSULATION, STANDING SEAM METAL ROOFING
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION: R-25 (R-25 REQUIRED)
SKYLIGHT IN EACH ASSEMBLY N/A
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
SKYLIGHT IN EACH ASSEMBLY
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
SKYLIGHT IN EACH ASSEMBLY

WALLS ABOVE GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: 2x6 WOOD STUD WALLS FILLED WITH BATT INSULATION, 5/8" PLYWOOD SHEATHING, AIR/VAPOR BARRIER, 1" RIGID INSULATION, AIR SPACE, BRICK VENEER
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION: R-13 BATT W/ R-3.8 CI RIGID (R-13, W/ R-3.8 CI REQ'D)
OPENING (windows or doors with glazing)
u-value of assembly: 0.32
Solar heat gain coefficient: 0.33
projection factor: 0.28
Door R-Values: U-0.70
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:

WALLS BELOW GRADE (EACH ASSEMBLY)
NOT APPLICABLE

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
NOT APPLICABLE

FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY: 4" CONCRETE SLAB ON GRADE
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF TOTAL INSULATION: NOT REQUIRED
Horizontal / vertical requirement: NOT REQUIRED
Slab heated? (Y/N) N

STRUCTURAL DESIGN *(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)*

DESIGN LOADS: TRANSCRIBED FROM STRUCTURAL SHEETS - REF STRUCTURAL SHEETS TO CONFIRM DATA

IMPORTANCE FACTORS: SNOW (Is) 1.0 SEISMIC (Ie) 1.0
LIVE LOADS: ROOF 20 psf MEZZANINE 100 psf FLOOR 100 psf
GROUND SNOW LOAD: 10 psf
WIND LOAD: ULTIMATE WIND SPEED - mph (ASCE-7) EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: ☐ A ■ B ☐ C ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
RISK CATEGORY (TABLE 1604.5) ☐ I ■ II ☐ III ☐ IV
SPECTRAL RESPONSE ACCELERATION: Sds= 12.4 %g Sd1= 6.2 %g
SITE CLASSIFICATION: (ASCE 7) ☐ A ☐ B ☐ C ■ D ☐ E ☐ F
Data Source: ☐ FIELD TEST ☐ PRESUMPTIVE ■ HISTORICAL DATA
BASIC STRUCTURAL SYSTEM ■ BEARING WALL ☐ DUAL WITH SPECIAL MOMENT FRAME
☐ BUILDING FRAME ☐ DUAL WITH INTERMEDIATE R/C OR SPECIAL STEEL
☐ MOMENT FRAME ☐ INVERTED PENDULUM
ANALYSIS PROCEDURE: ☐ SIMPLIFIED ■ EQUIVALENT LATERAL FORCE ☐ DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ☐ YES ☐ NO

LATERAL DESIGN CONTROL: EARTHQUAKE ☐ WIND ■

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) -
PRESUMPTIVE BEARING CAPACITY 1500 psf
PILE SIZE, TYPE, AND CAPACITY - psf

MECHANICAL SUMMARY TRANSCRIBED FROM MECHANICAL SHEETS - REF MECH SHEETS TO CONFIRM DATA

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE 4A
WINTER DRY BULB: 18 F
SUMMER DRY BULB: 95 F
INTERIOR DESIGN CONDITIONS
WINTER DRY BULB: 72 F
SUMMER DRY BULB: 74 F
RELATIVE HUMIDITY: 50%
BUILDING HEAT LOAD: 280 MBH
BUILDING COOLING LOAD: 45 TONS

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
description of unit SPLIT SYSTEM
heating efficiency 7.2 HSPF
cooling efficiency 14 SEER
size category of unit REFER TO MECHANICAL SCHEDULES
BOILER
Size category, If oversized, state reason.: REFER TO MECHANICAL SCHEDULES
CHILLER
Size category, If oversized, state reason.: REFER TO MECHANICAL SCHEDULES
LIST EQUIPMENT EFFICIENCIES REFER TO MECHANICAL SCHEDULES

ELECTRICAL SUMMARY TRANSCRIBED FROM ELECTRICAL SHEETS - REF ELECTRICAL SHEETS TO CONFIRM DATA

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
ENERGY CODE ☐ PERFORMANCE ■ PRESCRIPTIVE
ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESCRIPTIVE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
LAMP TYPE REQUIRED IN FIXTURE REFER TO LIGHTING SCHEDULES
NUMBER OF LAMPS IN FIXTURE REFER TO LIGHTING SCHEDULES
BALLAST TYPE USED IN THE FIXTURE REFER TO LIGHTING SCHEDULES
NUMBER OF BALLASTS IN FIXTURE REFER TO LIGHTING SCHEDULES
TOTAL WATTAGE PER FIXTURE REFER TO LIGHTING SCHEDULES
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) WHOLE BUILDING - 9,587 WATTS SPECS. VS. 11,909 WATTS ALLOWED
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED 628 WATTS SPECS. VS. 1,470 WATTS ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient Mechanical Equipment
■ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Supply of Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

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07/21/23

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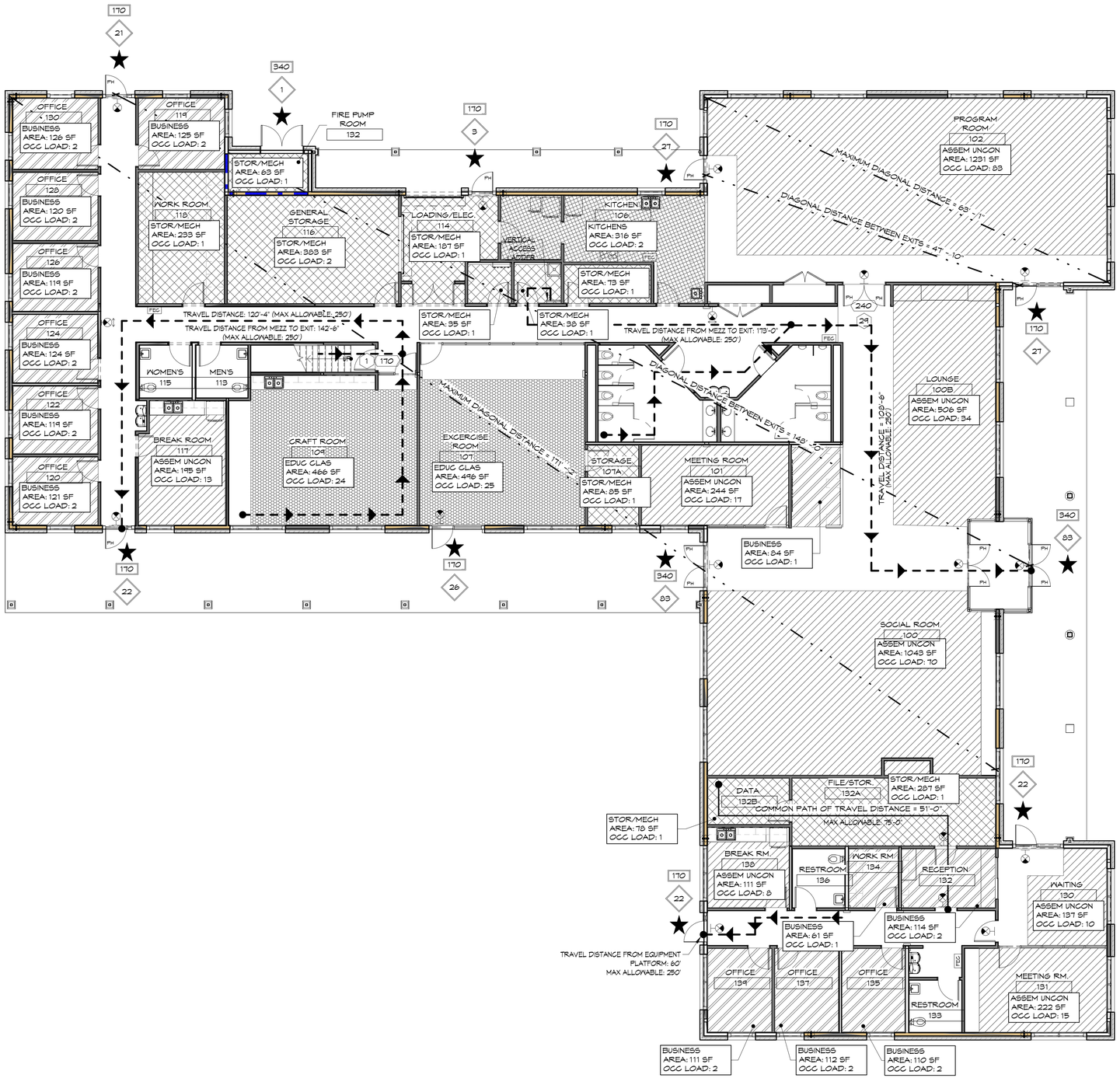
#	DESC:	DATE

DRAWN BY: JO/DJH
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
BUILDING CODE SUMMARY/APPENDIX B

G2.01



FIRST FLOOR LIFE SAFETY PLAN 1

1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOLS

- COMMON PATH OF TRAVEL DISTANCE = 99'-0"
- DIAGONAL DISTANCE BETWEEN EXITS = 28' - 4"
- MAXIMUM DIAGONAL DISTANCE = 28' - 4"
- TRAVEL DISTANCE = 99'-0"
- DEAD END = 11'-0"
- OCCUPANCY TYPE / OCCUPANCY AREA / OCCUPANCY COUNT (BASED ON TABLE 1004.1.1) → BUSINESS AREA: 150 SF OCC LOAD: 2
- BUILDING EXIT
- PH PANIC HARDWARE
- 0 MAXIMUM EGRESS CAPACITY
- 170 MAXIMUM EGRESS CAPACITY @ SUITE/STAIR
- 0 ACTUAL EGRESS CAPACITY
- 0 ACTUAL EGRESS CAPACITY @ SUITE/STAIR
- EXIT SIGN
- FEC FIRE EXTINGUISHER CABINET

RATED INTERIOR PARTITION LEGEND

- 1-HOUR RATED FIRE BARRIER
- 2-HOUR RATED FIRE BARRIER
- UNRATED PARTITION

OCCUPANCY SUMMARY

OCCUPANT TYPE	CALC OCCUPANT LOAD
1ST FLOOR	
ACCESSORY STORAGE/MECHANICAL (1/300)	11
ASSEMBLY (UNCONCENTRATED TABLES CHAIRS 1/15)	250
BUSINESS (1/100)	24
CLASSROOM (1/20)	49
KITCHEN (1/200)	2
MEZZANINE	
ACCESSORY STORAGE/MECHANICAL (1/300)	1
TOTAL OCCUPANCY	337

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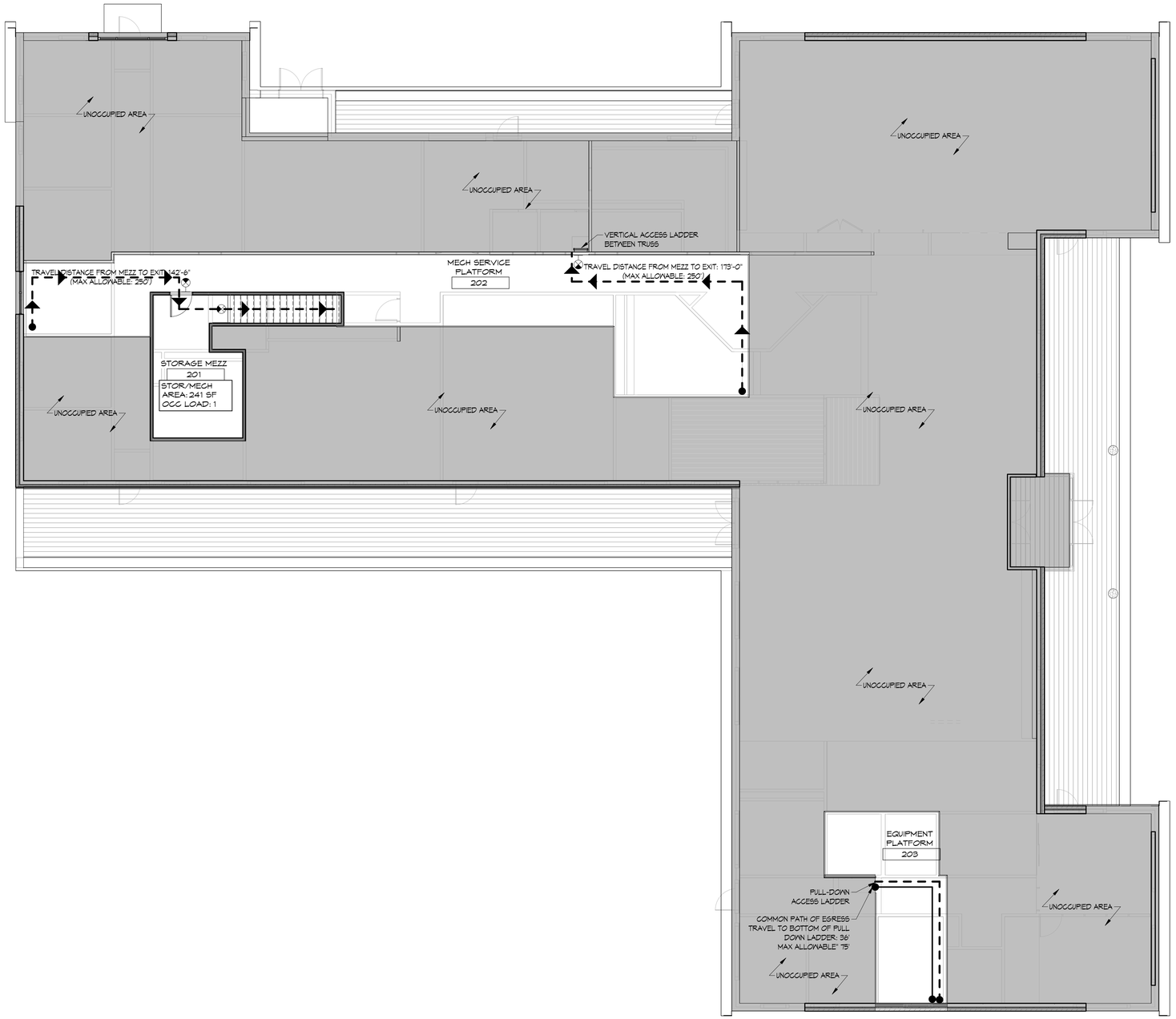
SHEET NAME & NUMBER
FIRST FLOOR LIFE SAFETY PLAN

G2.11



0' 4' 8' 16' 32'

MEZZANINE/EQUIPMENT PLATFORM LIFE SAFETY PLAN

1/8" = 1'-0" (1)

LIFE SAFETY PLAN SYMBOLS

- COMMON PATH OF TRAVEL DISTANCE = 99'-0"
- DIAGONAL DISTANCE BETWEEN EXITS = 28' - 4"
- MAXIMUM DIAGONAL DISTANCE = 28' - 4"
- TRAVEL DISTANCE = 99'-0"
- DEAD END = 11'-0"
- OCCUPANCY TYPE / OCCUPANCY AREA / OCCUPANCY COUNT (BASED ON TABLE 1004.1.1) → BUSINESS AREA: 150 SF OCC LOAD: 2
- BUILDING EXIT
- PH PANIC HARDWARE
- MAXIMUM EGRESS CAPACITY
- 170 MAXIMUM EGRESS CAPACITY @ SUITE/STAIR
- ACTUAL EGRESS CAPACITY
- ACTUAL EGRESS CAPACITY @ SUITE/STAIR
- EXIT SIGN
- FEC FIRE EXTINGUISHER CABINET

RATED INTERIOR PARTITION LEGEND

- 1-HOUR RATED FIRE BARRIER
- 2-HOUR RATED FIRE BARRIER
- UNRATED PARTITION

OCCUPANCY SUMMARY

OCCUPANT TYPE	CALC OCCUPANT LOAD
1ST FLOOR	
ACCESSORY STORAGE/MECHANICAL (1/300)	11
ASSEMBLY (UNCONCENTRATED TABLES CHAIRS 1/15)	250
BUSINESS (1/100)	24
CLASSROOM (1/20)	49
KITCHEN (1/200)	2
MEZZANINE	
ACCESSORY STORAGE/MECHANICAL (1/300)	1
TOTAL OCCUPANCY	337

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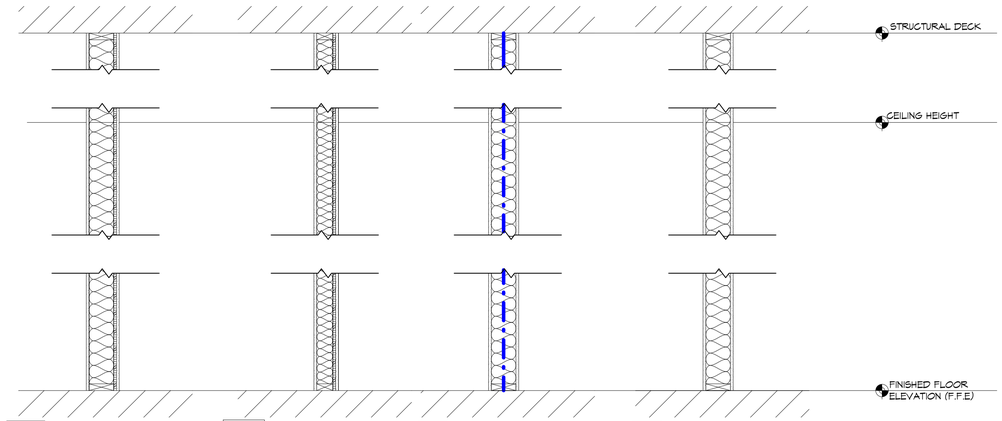
SHEET NAME & NUMBER

MEZZANINE/EQUIPMENT PLATFORM LIFE SAFETY PLAN

G2.12

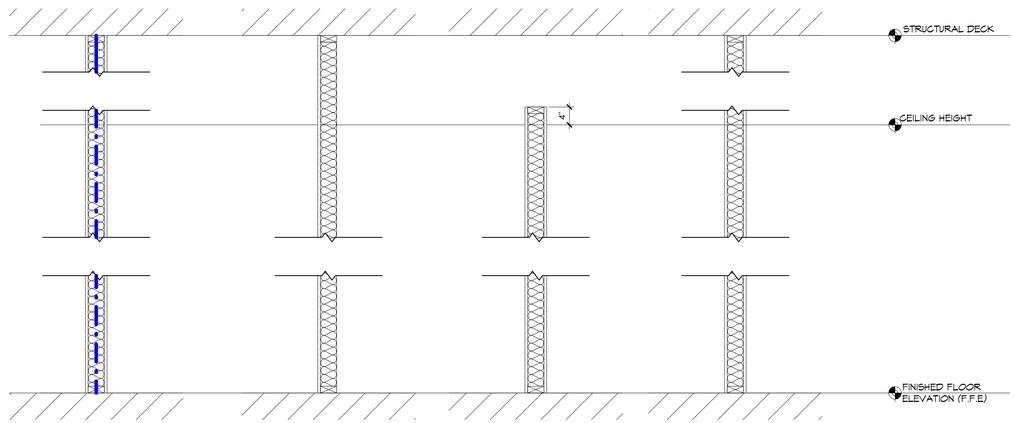


2S 5 1/2" WOOD STUD TO STRUCTURAL DECK *WITH 5 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH GYP BOARD ON BOTH SIDES AND PLYWOOD SHEATHING ON ONE SIDE TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRESTOPPING AS REQ'D. REFER TO STRUCTURAL DRAWINGS FOR STUD DENISTY AND SPACING.

1S 3 1/2" WOOD STUD TO STRUCTURAL DECK *WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH GYP BOARD ON BOTH SIDES AND PLYWOOD SHEATHING ON ONE SIDE TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRESTOPPING AS REQ'D. REFER TO STRUCTURAL DRAWINGS FOR STUD DENISTY AND SPACING.

2X **1 HOUR RATED PARTITION**
5 1/2"' WOOD STUD SPACED 16" O.C. TO STRUCTURAL DECK *WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GNB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRESTOPPING AS REQ'D
*IF WALL IS BELOW MEZZANINE
UL 305

2A 5 1/2"' WOOD STUD SPACED 16" O.C. TO STRUCTURAL DECK *WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GNB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRESTOPPING AS REQ'D
*IF WALL IS BELOW MEZZANINE



1X **1 HOUR RATED PARTITION**
3 1/2" WOOD STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. 5/8" GNB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRE STOPPING AS REQ'D.
*IF WALL IS BELOW MEZZANINE, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE MEZZANINE/PLATFORM DECK.
UL U305

1C 3 1/2" WOOD STUD SPACED 16" O.C. TO STRUCTURAL DECK, UNO IN ELEVATIONS, WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GNB ON ONE SIDE. INSTALL CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRE STOPPING AS REQ'D.

1B 3 1/2" WOOD STUD SPACED 16" O.C. TO 4" ABOVE CEILING WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. 5/8" GNB ON BOTH SIDES WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRE STOPPING AS REQ'D.

1A 3 1/2" WOOD STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. 5/8" GNB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. PROVIDE FIRE STOPPING AS REQ'D.
*IF WALL IS BELOW MEZZANINE, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE MEZZANINE/PLATFORM DECK.

INTERIOR PARTITION SCHEDULE (1)

3/4" = 1'-0"

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SHEET NAME & NUMBER
INTERIOR PARTITION SCHEDULE

G3.01

SPECIFICATIONS

DIVISION 0 – CONTRACTING REQUIREMENTS

1. THROUGHOUT THE DOCUMENTS HEREIN, THE TERM "OWNER" SHALL MEAN DUPLIN COUNTY, NORTH CAROLINA.
2. CONTRACTORS REQUIRED TO MAKE A SITE VISIT PRIOR TO SUBMITTING BID. UPON SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THEIR FAMILIARITY WITH THE PROJECT SITE AND EXISTING CONDITIONS.
3. SHOULD DISCREPANCIES EXIST WITHIN THE CONTRACT DOCUMENTS, CONTRACTORS SHALL PRICE THE MOST EXPENSIVE OPTION AND CONTACT THE OWNER/ARCHITECT FOR FURTHER CLARIFICATION.
4. INTERIOR PARTITIONS ARE DIMENSIONED FROM FACE OF STUD TO FACE OF STUD, UNLESS NOTED OTHERWISE. MAINTAIN DIMENSIONS MARKED "CLEAR", ALLOW FOR THICKNESS OF FINISHED WALL MATERIAL WHEN LAYING OUT WALLS NOTED TO BE "CLEAR". DOT AT DIMENSION TICK INDICATES MEASUREMENT TO FACE OF FINISHED SURFACE. PLAN NORTH/SOUTH DIMENSION STRINGS ARE ON THE PLAN NORTH FACE OF INTERIOR STUD. PLAN EAST/WEST DIMENSION STRINGS ARE PICKED FROM THE PLAN EAST FACE OF INTERIOR STUD. ALL INTERIOR DIMENSION STRINGS AT EXTERIOR WALLS PICK FROM INSIDE FACE OF STUD OR WALL U.N.O.
5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT FOR DIRECTION.
6. REFER TO DRAWING SHEETS FOR KEYED NOTES.
7. GC SHALL BE RESPONSIBLE FOR FURNISHING A SCHEDULE SHOWING REQUIRED DATES FOR RECEIVING OWNER-SUPPLIED EQUIPMENT ONSITE. SHOULD SUCH ITEMS ARRIVE ONSITE AHEAD OF SAID DATE, THE OWNER SHALL BEAR RESPONSIBILITY FOR RECEIVING, STORING, AND HANDLING SUCH EQUIPMENT.
8. GC SHALL CONFIRM/COORDINATE ALL SCHEDULE REQUIREMENTS, LIQUIDATED DAMAGES, GENERAL CONDITIONS, ETC. WITH OWNER PRIOR TO SUBMITTING FINAL PRICING.

DIVISION 1 – GENERAL REQUIREMENTS

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2018 NORTH CAROLINA EXISTING BUILDING CODE, 2018 NORTH CAROLINA BUILDING CODE, ANSI 117.1, AND ALL OTHER APPLICABLE CODES ACCORDING TO THE AUTHORITIES HAVING JURISDICTION.
2. ALL WORK SHALL BE PERFORMED BY QUALIFIED AND APPROPRIATELY LICENSED PERSONNEL.
3. GC RESPONSIBLE FOR THE COORDINATION AND REVIEW RELATED TO ALL PERMITS, FEES, ETC ASSOCIATED WITH THIS SCOPE OF WORK AS WELL AS COORDINATING AND SCHEDULING ALL REQUIRED INSPECTIONS. ARCHITECT AND OWNER TO BE NOTIFIED OF SCHEDULED INSPECTION WITH 3 DAYS NOTICE SO THEY CAN WITNESS THE INSPECTION IF DESIRED.
4. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING ALL UTILITIES AND UNDERGROUND ITEMS AS REQUIRED FOR THIS SCOPE OF WORK. CONDITIONS THAT PROHIBIT THE WORK FROM BEING PERFORMED AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR EVALUATION BEFORE CONTINUING WITH WORK.
5. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FROM THE DRAWINGS SHALL BE CONVEYED TO THE ARCHITECT FOR EVALUATION PRIOR TO CONTINUING WORK.
6. CONTRACTOR RESPONSIBLE FOR COORDINATING ALL SCHEDULES WITH OWNER AND ARCHITECT PRIOR TO START OF CONSTRUCTION.
7. CLEAN ALL SPACES WHERE DEMOLITION/CONSTRUCTION HAS OCCURRED AT THE CLOSE OF EACH DAY. MAINTAINING A CLEAN AND SAFE SITE IS THE RESPONSIBILITY OF THE GC.
8. COORDINATE ALL PLUMBING, MECHANICAL, ELECTRICAL WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR EVALUATION PRIOR TO CONTINUING WORK.
9. CONTRACTOR SHALL COORDINATE THE USE OF THE PREMISES UNDER THE DIRECTION OF THE OWNER.
10. GENERAL CONTRACT SHALL BE RESPONSIBLE FOR THE PROTECTION AND STORAGE OF ALL PRODUCTS REQUIRED TO PERFORM THE WORK DESCRIBED WITHIN THE CONTRACT DOCUMENTS.
11. FINAL CLEANING OF THE BUILDING AND SITE SHALL BE BY THE GENERAL CONTRACTOR PRIOR TO OCCUPANCY.
12. THIS PROJECT DOES NOT INCLUDE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS, OR HAZARDOUS SUBSTANCES.
13. WHEN THE TERM "PROVIDE" IS USED, IT IS ASSUMED THAT IT MEANS "PROVIDE AND INSTALL".
14. LOCATION OF ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES INDICATED ON ARCHITECTURAL BACKGROUNDS ARE FOR LOCATIONS PURPOSES ONLY. REFER TO ENGINEERING DRAWINGS FOR FINAL TYPES AND QUANTITIES.
15. WARRANTY:
   A. 1-YEAR WORKMANSHIP WARRANTY: CONTRACTOR TO PROVIDE A 1-YEAR WORKMANSHIP WARRANTY BEGINNING ON THE DATE OF SUBSTANTIAL COMPLETION.
   B. STANDARD MANUFACTURER WARRANTIES SHALL BE PROVIDED FOR ALL MATERIALS AND INSTALLATION PROVIDED AS PART OF THIS SCOPE OF WORK, UNO. ALL WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
      a. CONTRACTOR TO SUBMIT SAMPLE WARRANTIES TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
16. ALTERNATES:
   A. ADDITIONAL ALTERNATES MAY BE REQUESTED AND SHALL BE CONFIRMED WITH OWNER PRIOR TO SOLICITING FINAL PRICING. DEISGN DETAILS MAY REQUIRE REVISION.
   B. **ALTERNATE A1:** PROVIDE AND INSTALL PAINT GRADE WOOD WAINSCOTTING IN SOCIAL ROOM 100, LOUNGE 100B, AND PROGRAM ROOM 102B AS SHOWN IN DRAWINGS.
      a. **BASE BID:** OMIT WAINSCOTTING AS SHOWN IN DRAWINGS AS DESCRIBED ABOVE AND INSTALL RUBBER BASE AS SCHEDULED.
   C. **ALTERNATE A2:** PROVIDE AND INSTALL WALL TILE ON NON WET WALLS AS SHOWN IN DRAWINGS IN MEN'S RESTROOM 103, WOMEN'S RESTROOM 105, WATER FOUNTAIN DIRECTLY OUTSIDE THESE RESTROOMS, MEN'S RESTROOM 113, WOMEN'S RESTROOM 115, 3 WALLS OF WATER FOUNTAIN NICHE DIRECTLY OUTSIDE BREAKROOM 117, RESTROOM 133, RESTROOM 136, AND 3 WALLS OF WATER FOUNTAIN NICHE DIRECTLY OUTSIDE RESTROOM 133.
      a. **BASE BID:** OMIT WALL TILE ON NON WET WALL AS SHOWN IN DRAWINGS AS DESCRIBED ABOVE. PROVIDE AND INSTALL PAINT AND TILE BASE OR EPOXY BASE AS SCHEDULED IN LIEU OF WALL TILE.
   D. **ALTERNATE A3:** PROVIDE AND INSTALL FIRE PLACE, HEARTH, WALL SURROUND INCLUDING THE TRIM AND MANTLE AS SHOWN IN THE DRAWINGS IN SOCIAL ROOM 100.
      a. **BASE BID:** OMIT THE FIREPLACE, HEARTH, WALL SURROUND, MANTLE, AND TRIM AS DESCRIBED ABOVE.
   E. **ALTERNATE A4:** PROVIDE AND INSTALL FLAG POLE PLAZA AS SHOWN IN CIVIL DRAWINGS. PLAZA TO BE CONSTRUCTED WITH CENTER IN CONCRETE WITH FLAG POLE, MIDDLE ZONE SHALL BE STANDARD SIZE PAVERS, AND OUTER RING SHALL BE CONCRETE. REF. CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
      a. **BASE BID:** OMIT THE PLAZA AND FLAG POLE AS DESCRIBED ABOVE.
17. UNIT COSTS: GC TO CONFIRM UNIT COSTS WITH OWNER PRIOR TO SOLICITING FINAL PRICING.
18. ALLOWANCES: GC SHALL CONFIRM ALLOWANCES WITH OWNER PRIOR TO SOLICITING FINAL PRICING. POSSIBLE CANDIDATES COULD INCLUDE:
   A. UNSUITABLE SOIL REMOVAL AND REPLACEMENT.
   B. WINDOW TREATMENTS
   C. EMERGENCY RADIO AMPLIFICIATION SYSTEM & TESTING.
19. GENERAL CONTRACTOR SHALL COORDINATE THE USE OF THE PREMISES UNDER THE DIRECTION OF THE OWNER.

DIVISION 2 – EXISTING CONDITIONS

1. SHOULD ANY EXISTING CONDITIONS DEVIATE FROM THE CONTRACT DOCUMENTS SUCH THAT THE SCOPE OF WORK IS IMPACTED, THE GC SHALL IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND FINISHES PRIOR TO THE START OF ANY WORK. DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR EVALUATION BEFORE CONTINUING WITH WORK.
3. SHOULD ANY ENTITY OTHER THAN THOSE UNDER CONTRACT FOR THIS SCOPE OF WORK DAMAGE ANY ITEMS WITHIN THE LIMITS OF DISTURBANCE FOR THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
4. ITEMS NOT BEING SALVAGED SHALL BE TRANSPORTED AND DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES. RETAIN ALL DISPOSAL RECORDS.
5. GC SHALL COORDINATE WITH THE SITEWORK, DEMOLITION, UTILITY TIE-INS, SITE PERMITS, ETC. WITH OWNER, DESIGNER, AND AHJ. G.C. SHALL NOTIFY THE OWNER AND ARCHITECT OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION FOR ADDITIONAL DIRECTION.

DIVISION 3 – CONCRETE

1. REFER TO STRUCTURAL PLANS FOR DETAILS, SPECIFICATIONS, AND REQUIREMENTS FOR CONCRETE SLABS AND FOOTINGS.
2. INTERIOR CONCRETE SLABS SHALL BE PREPPED TO RECEIVE FLOOR FINISH AS INDICATED. THIS MAY INCLUDE PATCHES, REPAIRS, FLOOR LEVELING, AND/OR CHEMICAL REMOVAL OF EXISTING ADHESIVE OR OTHER FLOORING MATERIAL AS REQUIRED TO COMPLY WITH MANUFACTURER RECOMMENDATIONS.

DIVISION 4 – MASONRY

1. PROVIDE AND INSTALL BRICK MASONRY VENEER AND ALL REQUIRED MORTAR, ANCHORAGE, REINFORCING, FLASHING, WEEPS, AND CAVITY DRAINAGE MATERIALS AS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION. CONTRACTOR SHALL INSTALL ALL PRODUCTS PER MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS, AND REQUIREMENTS.
   A. BASIS-OF-DESIGN BRICK: TO MATCH ADJACENT BUILDINGS ON CAMPUS. PROVIDE BROWNS FERRY MODULAR BY PINE HALL - TO BE CONFIRMED BY OWNER/CONTRACTOR.
   B. BASIS OF DESIGN MORTAR: COLORED MORTAR AS SELECTED BY OWNER/ARCHITECT
   C. GC TO PROVIDE MOCKUP PANEL OF 2-3 BRICK AND MORTAR OPTIONS FOR SELECTION BY OWNER/ARCHITECT.
2. GC SHALL INSTALL MASONRY EXPANSION JOINTS AS SHOWN ON DRAWINGS AND/OR AS RECOMMENDED BY THE MANUF./INDUSTRY STANDARDS.
   A. EXPANSION JOINT COLOR TO BE SELECTED FROM FULL RANGE AND SHALL BE INCLUDED IN MOCK-UP PANEL FOR SELECTION BY OWNER/ARCHITECT.
3. GC SHALL SUBMIT THE PRODUCT DATA FOR ALL ITEMS REQUIRED FOR THE COMPLETE INSTALLATION OF BRICK VENEER. ALL ITEMS REQUIRING COLOR SELECTION SHALL BE SUBMITTED TO OWNER/ARCHITECT FOR SELECTION.
4. ACCESSORIES:
   A. BUILDING WRAP: TYVEK COMMERICAL WRAP OR EQUAL.
   B. WEEPS: FULL HEIGHT CORRUGATED PLASTIC TYPE.
   C. CAVITY DRAINAGE MATERIAL: MORTAR NET, FULL DEPTH OF CAVITY
   D. THROUGH WALL FLASHING: TAMKO COMMERCIAL WITH DAMS AT OPENINGS.
   E. TIES/HORIZ. REINFORCEMENT: HOT DIPPED GALVANIZED, WIRE TYPE

DIVISION 5 – METALS

1. PROVIDE STEEL FRAMING, STEEL REINFORCING, AND STEEL BRICK LINTELS AS INDICATED AND REQUIRED ON STRUCTURAL DRAWINGS.
2. PROVIDE ALL JOIST HANGERS, HURRICANE TIES, AND REINFORCING AS REQUIRED FOR WOOD FRAMING AS SHOWN AND INDICATED ON THE STRUCTURAL DRAWINGS. ALL ITEMS SHALL BE HOT-DIPPED GALVANIZED UNLESS INDICATED OTHERWISE.
3. PROVIDE METAL HANGARS, FASTENERS, AND ACCESSORIES AS REQUIRED TO SUIT APPLICATIONS, UNO. ALL ITEMS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE INDICATED OR REQUIRED.
4. STEEL PLATFORM STAIR AS SHOWN. PAINT TO MATCH H.M. FRAMES.
   A. PREMANUFACTURED/DELEGATED DESIGN STEEL STAIR FOR PLATFORM ACCESS. GRATING, DIAMOND PLATE, OR STEEL PAN ACCEPTABLE. PAINTED OR GALVANIZED ACCEPTABLE.
   B. ALL RISERS TO BE EQUAL, NO MORE THAN 7" HIGH.
   C. ALL TREADS TO BE EQUAL, NO LESS THAN 12" DEEP.
   D. LEADING 2" EDGE OF TREADS TO BE CONTRASTING COLOR.
   E. 1" OVERHANG OR TAPERED RISER FROM TOP EDGE OF TREAD TO INSIDE EDGE BELOW.
   F. PROVIDE WALL-MOUNTED PAINTED STEEL PIPE HANDRAILS ON BOTH SIDES OF STAIR. ANGLE TO MATCH STAIR. CENTER OF HANDRAIL TO BE 36" ABOVE THE LEADING EDGE OF TREADS.
      a. EXTEND BELOW LAST TREAD AT THE SAME ANGLE MIN. 12" BEYOND LEADING EDGE.
      b. BEND TO PARALLEL TO FLOOR AT PLATFORM LEVEL AND EXTEND PAST FIRST RISR/STEP MIN. 12".
5. RAILINGS/HANDRAILS: PROVIDE AND INSTALL 1 ½" DIAMETER PAINTED STEEL PIPE HAND RAIL/GUARD RAIL AS SHOWN IN DRAWINGS ALONG ALL EDGES OF MECHANICAL PLATFORM. ALL SEAMS AND WELDS TO BE GROUND SMOOTH.
   A. PROVIDE AND INSTALL EXPANSION SLIP JOINT IN HANDRAILS AS NEEDED FOR LENGTHS OF MORE THAN 30'.
   B. PAINT SHALL BE ENAMEL TYPE IN SEMI-GLOSS FOR USE IN HIGH TOUCH APPLICATIONS ON STEEL SUBSTRATE.
   C. HANDRAILS SHALL BE DELEGATED DESIGN, DESIGN LOADS TO COMPLY WITH CURRENT APPLICABLE CODES. DELEGATED DESIGN DRAWINGS SHALL BE SIGNED AND SEALED BY ENGINEER LICENSED IN THE STATE OF NC.
   D. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.

DIVISION 6 – WOOD & COMPOSITES

1. PROVIDE MISCELLANEOUS WOOD MATERIALS FOR FURRING, BLOCKING, SHIMS, OR HANGARS AS REQUIRED. PROVIDE SOFTWOOD OR HARDWOOD LUMBER, KILN-DRIED TO MAXIMUM OF 15% MOISTURE. OFFER OWNER AND ARCHITECT AN IN-WALL WALK-THROUGH TO REVIEW PLACEMENT OF ALL BLOCKING AND WHAT EACH SECTION OF BLOCKING IS INTENDED TO SUPPORT.
2. IN APPLICATIONS WHERE EXPOSED TO EXTERIOR, NOT PROTECTED BY BUILDING WRAP OR AIR BARRIER, OR IN DIRECT CONTACT WITH CONCRETE AND/OR EARTH, PROVIDE PRESSURE-TREATED WOOD MATERIALS FOR FURRING, BLOCKING, SHIMS, OR HANGARS AS REQUIRED. PROVIDE SOFTWOOD OR HARDWOOD LUMBER, KILN-DRIED TO MAXIMUM OF 19% MOISTURE.
3. PROVIDE LAMINATED-VENEER-LUMBER (LVL) AS SHOWN AND SPECIFIED ON THE STRUCTURAL DRAWINGS.
4. PROVIDE WOOD TRUSSES AS DELEGATED DESIGN AS SHOWN ON THE STRUTURAL DRAWINGS.
   A. TRUSS DESIGN SHALL COORDINATE WITH THE MECHANICAL DUCT WORK TO PROVIDE BOX-OUTS AS REQUIRED FOR DUCT RUNS AS SHOWN IN DRAWINGS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT RUN LOCATIONS AND TO CONFIRM DUCT SIZES.
   B. TRUSS DESIGN SHALL ACCOMMODATE MINIMUM 6'-8" HEAD CLEARANCE IN LOCATIONS THAT HAVE EQUIPMENT PLATFORM AND/OR MEZZANINE SPACE BELOW. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS OF PLATFORMS AND MEZZANINE.
5. PROVIDE CASEWORK AS INDICATED AND SHOWN ON DRAWINGS (CHECK ALTERNATES FOR FINAL SCOPE). MILLWORK SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND SHALL MEET ALL ACCESSIBILITY REQUIREMENTS.
   A. CABINET CONSTRUCTION:
      a. CABINET FRONT AND/OR DRAWER STYLE: FLUSH
      b. CABINET CORE (SIDES AND BOTTOM): VENEER CORE PLYWOOD.
      c. FULL CABINET TOP FRAME WITH INTERMEDIATE FRONT RAILS.
      d. FIXED BACKS ON BASE CABINETS: VENEER MDF CORE PLYWOOD
      e. OPERABLE KNEE PANEL: ADA SINK BASE CABINET ONLY, AS NOTED IN DRAWINGS.
      f. DRAWER AND DOOR FRAMES SHALL BE PLASTIC LAMINATE WITH 3MM PVC EDGE BANDING TO MATCH FACE COLOR/PATTERN. REFER TO FINISH SCHEDULE AND CASEWORK SECTIONS FOR PLAM SELECTIONS.
      g. SIDE PANELS SHALL BE CONSTRUCTION WITH MANUFACTURER'S STANDARD PLYWOOD PANELS WITH VENEER TO MATCH DOOR FRONTS.
      h. INTERIOR OF CASEWORK SHALL BE WHILE HPL VENEER OR MELAMINE. ALL EXPOSED SIDES SHALL BE PLAM TO MATCH DOOR AND FRAME FACES.
      i. DRAWER CONSTRUCTION: STANDARD HEIGHT, OR AS NOTED IN DRAWINGS, MULTIPLE DOVETAIL, 5MM WHITE PVC CLAD MDF.
      j. HARDWARE: FULLY RECESSED OR FLUSH WITH CABINET.
         - CONCEALED HARDWARE, SUCH AS HINGES, DRAWER GLIDES, AND FASTENERS SHALL BE HEAVY DUTY RATED AND SHALL HAVE MANUFACTURER STANDARD FINISH.
         - ALL EXPOSED HARDWARE SHALL BE SELECTED BY ARCHITECT/OWNER FROM MANUFACTURER'S FULL RANGE OF STYLES AND FINISH. HARDWARE SHALL COMPLY WITH ALL ACCESSIBILITY REQUIREMENTS.
         - DRAWER SUSPENSION: FULL EXTENSION, BALL BEARING, 150 DYNAMIC, ZINZ-PLATED.
         - DOOR HINGES: STAINLESS STEEL CONCEALED TOOL-LESS HINGES, HEAVY DUTY RATED.
         - DRAWER/DOOR PULLS: STAINLESS STEEL SOLID METAL, ADA COMPLIANT PULLS WITH CONCEALED MOUNTING. INSTALLED HORIZONTALLY ON DRAWERS, AND VERTICALLY ON DOORS AS SHOWN IN DRAWINGS.
         - FULLY ADJUSTABLE METAL SHELF STANDARDS ON 1" INCREMENTS.
         - LOCK TYPE: MASTER 5-DISC. ALL LOCKS KEYED SEPARATELY. PROVIDE LOCKS AT RECEPTION DECK. ALL LOCK LOCATIONS SHALL BE CONFIRMED BY THE OWNER/ARCHITECT.
         - SINKS: REFER TO PLUMBING DRAWINGS. ALL SINKS TO BE ADA COMPLIANT.
   B. CONTRACTOR TO FIELD MEASURE EXISTING CONDITIONS PRIOR TO THE FABRICATION OF THE MILLWORK AND CASEWORK.
   C. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS FOR MILLWORK, CASEWORK, AND HARDWARE TO OWNER/ARCHITECT FOR REVIEW/APPROVAL.
6. MILLWORK:
   A. WAINSCOTTING: PROVIDE 1X4 AND 1X6 PAINT GRADE WOOD BATTENS THAT USE FINISH NAILS AND CONSTRUCTION ADHESIVE TO FASTEN TO WALL. INSTALL AS SHOWN IN DRAWINGS.
   B. WOOD ACCENT WALL: PROVIDE STAIN GRADE PINE OR BIRCH ON WALLS/CEILINGS AS SHOWN IN DRAWINGS. USE FINISH NAILS AND CONSTRUCTION ADHESIVE TO FASTEN TO WALL. SEE DRAWINGS FOR INSTALLATION ARRANGEMENT AND DETAILS. STAIN COLOR TO MATCH DOOR COLOR. PROVIDE TRANSPARENT FINISH TOP COAT.
7. COUNTERTOPS:
   A. PLASTIC LAMINATE COUNTERS SHALL BE PROVIDED AS INDICATED IN DRAWINGS.
      a. SQUARE EDGE PROFILE.
      b. BASIS-OF-DESIGN: REFER TO FINISH SCHEDULE.
   B. QUARTZ COUNTERS SHALL BE PROVIDED AS INDICATED IN DRAWINGS
      a. EASED EDGE
      b. BASIS-OF-DESIGN: REFER TO FINISH SCHEDULE.
   C. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS FOR OWNER/ARCHITECT REVIEW AND APPROVAL.
   D. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS PRIOR TO FABRICATION.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

1. GC TO CONFIRM ALL PRODUCTS USED TOGETHER AS PART OF THE ASSEMBLY/SYSTEM ARE COMPATIBLE, INCLUDING BUT NOT LIMITED TO DISSIMILAR METALS, ADHESION BETWEEN MATERIALS, ETC.
2. PROVIDE FIBER CEMENT HARDBOARD PANELS, BATTENS, AND TRIM AS SHOWN AND INDICATED ON THE DRAWINGS.
   A. FASTENERS SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, OR SHALL BE FINISHED TO MATCH ADJACENT SIDING COLOR.
   B. FIBER CEMENT MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN RECOMMENDATIONS AND REQUIREMENTS.
   C. ALL PRODUCTS SHALL BE INSTALLED BY A SINGLE INSTALLED TRAINED BY MANUFACTURER OR REPRESENTATIVE.
   D. BASIS-OF-DESIGN FOR WALL PANELS: JAMES HARDIE HORIZONTAL LAP SIDING, SMOOTH FINISH
      a. COLOR: PRIMED, PAINTED IN COLOR AS SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL RANGE.
   E. BASIS-OF-DESIGN FOR LARGE SOFFIT PANELS AREA (DESIGNATED AS FCB-B ON PLANS): JAMES HARDIE BEAD BOARD SOFFIT PANELS, WITH 1X4 TRIM BATTENS AT SEAMS AND PERIMETER.
      a. COLOR: PRIMED, PAINTED IN COLOR AS SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL RANGE.
   F. BASIS-OF-DESIGN FOR SOFFIT PANELS (DESIGNATED AS FCB ON PLANS): JAMES HARDIE PERFORATED VENTED SOFFIT PANEL, SMOOTH FINISH
      a. COLOR: PRIMED, PAINTED IN COLOR AS SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL RANGE.
3. PROVIDE AND INSTALL AIR AND MOISTURE BARRIER ON ALL EXTERIOR WALLS AS SHOWN ON PLANS AND AS REQUIRED BY BRICK VENEER AND SIDING MANUFACTURER AND INDUSTRY STANDARDS.
4. EXTERIOR WALL INSULATION: PROVIDE 1" CLOSED CELL EXTRUDED POLYSTYRENE RIGID BOARD ON ALL EXTERIOR WALLS UNLESS NOTED OTHERWISE. SEAL OR TAPE ALL JOINTS AND PENETRATIONS AS REQUIRED BY INSULATION MANUFACTURER.
   A. MIN. R VALUE: R-3.8
5. ROOF INSULATION: PROVIDE 5" THICK POLY-ISO RIGID BOARD ROOF INSULATION.
   A. MIN. R-VALUE: R-25
6. WALL CAVITY INSULATION: PROVIDE UNFACED GLASS-FIBER BATT INSULATION COMPLYING WITH ASTM C 665, TYPE 1 FOR ALL INTERIOR AND EXTERIOR WALLS UNLESS NOTED OTHERWISE. INSULATION SHALL BE FULL DEPTH, WIDTH, AND HEIGHT OF WALL CAVITY. PROVIDE BATT INSULATION WITHIN FLOOR ASSEMBLIES, SECURE DIRECTLY BELOW MEZZANINE/PLATFORM FLOOR.
7. STANDING SEAM METAL ROOF: COLOR/SPECIFICATION TO MATCH EXISTING ADJACENT BUILDINGS.
   A. BASIS-OF-DESIGN TO BE CONFIRMED WITH OWNER.
   B. BASIS-OF-DESIGN: DMI SNAPLOCK STANDING SEAM METAL ROOF - OR SIMILAR STANDING SEAM ROOFING SYSTEM THAT CAN BE APPLIED ON FLAT AND CURVED SUBSTRATES.
      a. 2" STANDING SEAM
      b. 24 GAUGE PANELS
      c. FINISH: 2-COAT THERMOCURED HIGH PERFORMANCE KYNAR 500 MEETING AAMA 2605 PLUS 2000 HRS HUMIDITY RESISTANCE.
      d. BLIND FASTENERS OF HIGH-STRENGTH ALUMINUM OR STAINLESS STEEL.
      e. PROVIDE ALL ACCESSORIES TO MATCH PER MANUF. REQUIREMENTS.
8. SHEET METAL AND FLASHING: PROVIDE PREFINISHED .05" ALUMINUM SHEET METAL FOR FABRICATION AND INSTALLATION OF FLASHING, BREAK METAL TRIM, GUTTERS, AND DOWNSPOUTS.
   A. FABRICATION AND INSTALLATION OF ALL ITEMS SHALL COMPLY WITH ALL APPLICABLE SMACNA REQUIREMENTS.
   B. FINISH SHALL KYNAR COATING OR ANODIZED. ANODIZED SHALL ONLY OCCUR WHEN DIRECTLY ADJACENT TO STOREFRONT. IF ADDITIONAL DIRECTION IS NEEDED, INQUIRE WITH THE ARCHITECT PRIOR TO CONTINUING WORK.
9. PROVIDE NEW SEALANT AND BACKER ROD AS REQUIRED AT ALL NEW EXTERIOR DOORS, WINDOWS, PENETRATIONS, LOUVERS, ETC. AS SHOWN ON THE DRAWINGS. TO ENSURE WEATHER-TIGHT CONSTRUCTION. INSTALLED PRODUCT SHALL BE WARRANTED TO BE FREE OF DEFECTS IN MATERIAL, LABOR, WORKMANSHIP, AND INSTALLATION FOR A PERIOD OF 20 YEARS.

DIVISION 8 – OPENINGS

1. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. EVERY EXIT DOOR IS SPECIFIED TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY AND WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT.
3. PROVIDE DOORS, FRAMES, STOREFRONT, AND GLAZING AS INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND FIELD VERIFYING ALL ROUGH OPENINGS FOR DOOR/STOREFRONT ASSEMBLIES PRIOR TO ORDERING/FABRICATION. ALL INTERIOR DOORS SHALL HAVE AN UNDERCUT AS NOTED IN THE DRAWINGS.
4. PROVIDE FULLY WELDED HOLLOW METAL FRAMES AT DOOR LOCATIONS AS INDICATED. FRAMES SHALL BE SHOP-PRIMED AND FIELD PAINTED AS INDICATED.
   A. FRAMES SHALL BE 16-GAUGE THICK MINIMUM.
   B. PROVIDE JAMB ANCHORS AS REQUIRED AT EACH FRAME LOCATION.
   C. PREP HOLLOW METAL FRAMES TO RECEIVE DOORS AS INDICATED ON PLANS.
   D. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
5. INTERIOR WOOD DOORS SHALL BE 1.75" THICK SOLID WOOD CORE DOORS WITH PREMIUM AA SELECT WHITE BIRCH FACES. STAIN COLOR AS SCHEDULED AND SHALL BE FACTORY FINISHED WITH TRANSPARENT SEMI-GLASS VARNISH.
   A. EACH DOOR TO BE PREPPED FOR ADA COMPLIANT HARDWARE AS SCHEDULED.
   B. HINGE: 1.5 PAIR 4-1/2" X 4-1/2", FIVE KNUCKLE, HEAVY WEIGHT, US26D FINISH.
   C. LOCKSETS: HEAVY DUTY LEVER TYPE, FUNCTIONS AS SCHEDULED.
   D. CLOSERS AS SCHEDULED WITH METAL COVER AND REGULAR ARM.
   E. KICKPLATES PROVIDED IN SATIN STAINLESS STEEL FINISH ON PUSH SIDE OF ALL INTERIOR WOOD DOORS.
   F. PROVIDE FLOOR-MOUNTED DOOR STOPS BEHIND EACH DOOR. INSTALL AS DIRECTED BY OWNER.
   G. ALL INTERIOR DOORS TO BE LOCATED 4" OFF PERPENDICULAR WALL UNLESS NOTED OTHERWISE. DIMENSION TO INCLUDE INTERIOR FINISH MATERIALS. ALL DOOR CLEARANCES TO MEET ANSI A117.1 2009 ACCESSIBLE CLEARANCES.
   H. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
      a. G.C. TO SUBMIT 12"X12" SAMPLES OF DOOR VENEER TO OWNER FOR VERIFICATION AND APPROVAL.
6. EXTERIOR STOREFRONT ENTRANCES TO BE THERMALLY BROKEN EXTRUDED ALUMINUM FRAMING SYSTEM WITH 1" INSULATED LOW-E GLAZING.
   A. BASIS-OF-DESIGN YES 45 TU FRONT-SET THERMALLY BROKEN FRAMING AS MANUFACTURED BY YKK AP AMERICA, INC.
   B. FRAME PROFILE: 2" FACE AND 4-1/2" DEPTH AT SMALLER OPENINGS, AND 6" DEPTH AT TALLER OPENINGS PER MANUF. REQUIREMENTS.
   C. COLOR: COLOR ANODIZED OR KYANR COATING TO MATCH EXISTING ADJACENT BUILDINGS ON THE CAMPUS.
   D. FRAMING SYSTEM TO BE COMPLIANT WITH AIR AND WATER INFILTRATION RATES AS REQUIRED BY APPLICABLE ASTM STANDARDS.
   E. FRAMING SYSTEM SHALL BE DELEGATED DESIGN SIGNED BY A LICENSED ENGINEER IN THE STATE NC, DESIGNED TO WITHSTAND ALL APPLICABLE WIND LOADS AND SHALL COMPLY WITH MAXIMUM ALLOWABLE DEFLECTIONS FOR ASTM REQUIREMENTS.
   F. CONTRACTOR SHALL PROVIDE SUBMITTALS INCLUDING PRODUCT DATA, COLOR SAMPLES, AND SHOP DRAWINGS TO THE DESIGNER FOR REVIEW AND FINAL SELECTION OF COLOR.
   G. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
7. EXTERIOR GLAZING SHALL BE 1" INSULATED UNITS CONSISTING OF THE FOLLOWING CONSTRUCTION:
   A. EXTERIOR LITE SHALL BE ¼" ULTRA-CLEAR TEMPERED GLASS.
   B. LOW-E COATING ON SURFACE #2
   C. ½" AIR SPACE
   D. INTERIOR LITE SHALL BE ¼" ULTRA-CLEAR TEMPERED GLASS, FRITTED OR SPANDREL AS SCHEDULED. FRIT OR SPANDREL SHALL BE ON THE AIR SPACE SIDE OF THE INSIDE GLASS PANE IF SCHEDULED.
   E. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
8. EXTERIOR ALUMINUM DOORS SHALL BE THERMALLY BROKEN ALUMINUM TO MATCH BALANCE OF STOREFRONT FRAMING SYSTEM WITH 1" INSULATED LOW-E GLAZING AS SCHEDULED.
   A. ADA COMPLIANT THRESHOLD SHALL BE INSTALLED AT ALL EXTERIOR DOORS. THRESHOLD TO BE SET IN FULL SEALANT BED.
   B. WEATHER STRIPPING SHALL BE INSTALLED ON ALL HEAD AND JAMBS OF DOORS.
   C. SWEEPS SHALL BE INSTALLED AT SILL OF ALL DOORS TO COORDINATE WITH THRESHOLD.
9. SLIDING PASS-THRU WINDOW:
   A. PROVIDE LOW-PROFILE SLIDING PASS-THRU WINDOW AS SCHEDULED WITH ¼" LAMINATED TEMPERED GLASS. LOW PROFILE TRACK WITH SATIN ANODIZED FINISH, WITH CAM LOCKS, SECURITY TRACK, AND CONTINUOUS THUMB PULLS ON LEADING EDGE OF GLASS. BUMBERS/STOPS SHALL BE INCLUDED INTRACK SYSTEM. SIZE ACCORDING TO SCHEDULE.
      a. BASIS-OF-DESIGN: C.R. LAURENCE 08 5680 PASS THRU WINDOWS.
      b. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE FABRICATION AND INSTALLATION.
   B. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
10. ACCESS PANELS SHALL BE LOCATED AS REQUIRED TO ACCESS ITEMS ABOVE CEILING OR WITHIN WALLS. A SHOP DRAWING SHALL BE SUBMITTED TO ARCHITECT AND OWNER FOR REVIEW AND APPROVAL SHOWING LOCATION OF ALL ACCESS PANELS. ACCESS PANELS TO BE PAINTABLE.
11. PROVIDE OVERHEAD COILING DOORS AS SCHEDULED.
   A. EXTERIOR INSULATED MANUAL COILING DOOR WITH VISION LIGHTS
      a. BASIS-OF-DESIGN: OVERHEAD DOR COMPANY EVERSERVE MODEL 625S.
   B. INTERIOR MANUAL COILING DOOR
      a. BASIS-OF-DEISGN: OVERHEAD DOOR COMPANY COIL-AWAY MODEL 600.

DIVISION 9 – FINISHES

1. REFER TO PLANS FOR FINISH REQUIREMENT IN EACH SPACE. FINAL FINISH TYPE AND COLOR SELECTION SHALL BE SUBMITTED TO ARCHITECT AND OWNER FOR FINAL APPROVAL. ALL FINISH SAMPLES MUST BE SUBMITTED PRIOR TO FULL APPROVAL OF ANY INDIVIDUAL FINISHES.
2. INTERIOR WALL AND CEILING FINISHES ARE SPECIFIED TO BE CLASS 2 (FLAME SPREAD 26-75, SMOKE DEVELOPMENT 450 OR LESS) OR BETTER, UNLESS NOTED OTHERWISE.
3. INTERIOR TRIM IS SPECIFIED TO BE CLASS 3 (FLAME SPREAD 76 TO 200, SMOKE DEVELOPMENT OF 450 OR LESS) OR BETTER.
4. FLOOR COVERING FOR CORRIDORS, LOBBIES, STAIRS, OTHER EXIT PATHS OR EXIT AREAS ARE SPECIFIED TO BE CLASS B OR BETTER.
5. INTERIOR WALL FRAMING TO BE LIGHT GAUGE METAL STUDS.
   A. REFER TO THE PARTITION SCHEDULE FOR PARTITION HEIGHT AND CONSTRUCTION. REFER TO FLOOR PLAN FOR WALL TAGS INDICATING PARTITION TYPES. EXISTING WALLS TO REMAIN WITHOUT TAGS INDICATE NO WORK, UNLESS NOTED OTHERWISE.
   B. ALL NEW METAL STUD PARTITIONS SHALL RECEIVE DEFLECTION TRACK AT TOP OF METAL STUD WALLS, AND AS OTHERWISE REQUIRED BY DELEGATED DESIGN REQUIREMENTS.
   C. ALL NEW METAL STUD WALLS SHALL BE GAUGED TO THE THICKNESS REQUIRED BASED ON THE HEIGHT OF THE WALL PER MANUFACTURER STANDARDS FOR INTERIOR STUDS.
   D. ALL BULKHEAD WALLS SHALL EXTEND TO 4" ABOVE CEILING UNLESS NOTED OTHERWISE. KICKERS TO STRUCTURE ABOVE SHALL BE PROVIDED AT 4'-0" ON CENTER TO STABILIZE.
   E. PARTITIONS INDICATED TO BE 4" ABOVE CEILING SHALL INCLUDE KICKERS TO STRUCTURE ABOVE SPACED A 4'-0" O.C.
   F. COORDINATE LAYOUT OF WALL OF DIFFERENT TYPES SUCH THAT THE FINISH GWB SURFACES ALIGN IN THE SAME PLANE.
6. INTERIOR WALL SHEATHING SHALL BE 5/8" GYPSUM BOARD AS INDICATED ON THE PLANS
   A. PROVIDE WATER RESISTANT GYPSUM BOARD IN ALL WET LOCATIONS (BATHROOMS, JANITOR CLOSETS, KITCHENS, WATER FOUNTAIN AREAS, ETC). IN THE ABSENCE OF TILE OR FRP, EPOXY PAINT SHALL BE USED ADJACENT TO PLUMBING FIXTURES TO MEET THE APPLICABLE CODES.
   B. ALL PARTITIONS IDENTIFIED TO HAVE A TILE FINISH SHALL HAVE MOISTURE RESISTANT GLASSMAT GYPSUM BACKER BOARD IN LIEU OF STANDARD GYPSUM BOARD.
   C. ALL INTERIOR WALLS TO HAVE HIGH-DENSITY SOUND BATTS IN THE STUD CAVITY.
   D. ALL PAINTED GYPSUM BOARD WALLS SHALL HAVE LEVEL 4 FINISH, UNLESS NOTED OTHERWISE.
   E. ALL WALL WITH WALLCOVERING SHALL HAVE LEVEL 5 FINISH UNLESS NOTED OTHERWISE.
   F. SUBMIT PAINT SCHEDULE AND PRODUCT DATA TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
   G. CURVED WALLS SHALL HAVE A LEVEL 5 FINISH.
7. PROVIDE FLOORING MATERIALS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION PER MANUFACTURER'S REQUIREMENTS.
   A. G.C. SHALL PROVIDE MATERIAL SAMPLES AND PRODUCT DATA FOR FLOORING (ONE SAMPLE FOR EACH COLOR, STYLE, SIZE, ETC) AND ALL ACCESSORIES TO OWNER/ARCHITECT FOR SELECTION AND VERIFICATION. SAMPLE SIZES TO BE FULL SIZE FOR CARPET TILES, LVT, TILE, ETC. STANDARD SAMPLE SIZES ACCEPTABLE FOR OTHER MATERIALS.
   B. REFER TO FINISH SCHEDULE FOR BASIS-OF-DESIGN PRODUCTS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL DURING THE BIDDING PROCESS ONLY. SUBSTITUTIONS SHALL NOT BE CONSIDERED AFTER THE BID.
   C. PROVIDE FLOOR LEVELING AS REQUIRED IF CONCRETE SLAB DOES NOT MEET MANUFACTURER'S MINIMUM FLATNESS REQUIREMENTS FOR PROPER INSTALLATION OF FINISH FLOORING MATERIALS.
   D. G.C. TO CONFIRM FLOORING PATTERN AND LAYOUT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. SHOP DRAWING MAY BE SUBMITTED INDICATING PATTERN, OR A PREINSTALLATION MEETING WITH ARCHITECT, OWNER, SUBCONTRACTOR, AND GENERAL CONTRACTOR SHALL OCCUR TO CONFIRM.
8. PROVIDE AND INSTALL RUBBER BASE IN LOCATIONS AND COLOR/STYLE AS INDICATED IN THE DRAWINGS. PRE-MOLDED INSIDE AND OUTSIDE CORNERS SHALL BE REQUIRED.
   A. SUBMIT PRODUCT DATA AND MATERIAL SAMPLE TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
9. PRIME AND PAINT ALL WALLS WITHIN THE PROJECT WORK AREA UNLESS NOTED OTHERWISE IN FINISH SCHEDULE/PLAN. WALL SHALL RECEIVE TWO COATS OF FINISH PAINT WITH SATIN FINISH.
   A. FRAMES AND TRIM SHALL RECEIVE PRIMERS AND TWO FINISH COATS OF PAINT WITH SEMI-GLOSS FINISH
   B. WALLS AND CEILINGS SHALL RECEIVE PRIMERS AND TWO COATS OF PAINT WITH EGG SHELL FINISH.
   C. PROVIDE LOW VOC CONTENT PRIMER AND PAINT FROM MANUFACTURER AS LISTED IN THE FINISH SCHEDULE.
   D. COLORS: AS NOTED IN FINISH SCHEDULE
   E. SUBMIT PAINT SCHEDULE AND PRODUCT DATA TO OWNER/ARCHITECT FOR REVIEW/APPROVAL.
   F. GC TO SCHEDULE A PAINT PRE-INSTALLATION MEETING WITH OWNER, ARCHITECT, SUBCONTRACTOR, AND GC TO REVIEW THE PAINT COLOR LOCATIONS THROUGHOUT THE WORK AREA.
10. PROVIDE WATER PROOFING & CRACK ISOLATION MEMBRANE IN ALL LOCATIONS WITH TILE FLOOR IDENTIFIED. MEMBRANE SHALL EXTEND ACROSS THE FLOOR, TERMINATING 8" UP STANDARD LOCATIONS (OR AT BASE TERMINATION IF WALL TILE IS NOT UTILIZED), AND EXTENDING UP 24" ABOVE ANY PLUMBING FIXTURES ON WET WALL LOCATIONS (OR AT BASE TERMINATION IF WALL TILE IS NOT UTILIZED).
   A. SUBMIT PRODUCT DATA AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW/APPROVAL.
11. ADA COMPLIANT ENGINEERED STONE THRESHOLDS TO BE PROVIDED AT ALL TILED/EPOXY BATHROOMS AT DOOR.
12. CEILINGS: PROVIDE ACOUSTIC CEILING TILE AND GRID, OR LIGHT GAUGE METAL STUDS AND 5/8" PAINTED GYPSUM BOARD AS SCHEDULED AND SHOWN ON PLANS.
   A. BASIS-OF-DESIGN: REFER TO FINISH SCHEDULE.
   B. CAULK GRID AT PERIMETER WITH MATCHING WHITE CAULK.
   C. FOR AREAS OF THE PROJECT WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING MAY BE EMPLOYED: 1) ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS; MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS. IF MANUFACTURER RECOMMENDATIONS CONFLICT, INFORM THE ARCHITECT IMMEDIATELY PRIOR TO CONTINUING WORK.
   D. PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL, OR WHERE A FLOATING CEILING TERMINATES.
   E. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
   F. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND ALL OTHER CEILING ELEMENTS IN ACOUSTICAL TILES, UNLESS OTHERWISE NOTED.
   G. FINISH HVAC DIFFUSERS, DRAPERY/SHADE POCKETS, SPEAKER GRILLES AND OTHER ITEMS LOCATED IN CEILING TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT AND PIPING PERMITTED TO BE PAINTED PER THE NORTH CAROLINA STATE BUILDING CODE SHALL BE PAINTED. REFER TO FINISH SCHEDULE FOR PAINT SELECTIONS.
   H. UNLESS NOTED OTHERWISE, ALL ELECTRICAL LIGHTING TO BE CENTERED IN THE SPACE.

DIVISION 10 – SPECIALTIES

1. PROVIDE TOILET ROOM ACCESSORIES AS INDICATED ON PLANS. INCLUDE BLOCKING IN THE WALL AS REQUIRED.
   A. SUBMIT PRODUCT DATA TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
2. PROVIDE 2" WIDE BY 42" TALL MECHANICALLY FASTENED STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE GYPSUM BOARD CORNERS AND AS SHOWN ON DRAWINGS. MATERIALS SHALL BE MINIMUM 20-GAUGE THICKNESS WITH NO.4 SATIN FINISH AND TAPERED EDGE.
   A. SUBMIT PRODUCT DATA AND MATERIAL SAMPLE TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
3. PROVIDE BLOCKING AS NECESSARY FOR PROPER MOUNTING OF ALL ACCESSORIES, TV MOUNTS, WHITE BOARDS, ETC. AS NOTED IN PLAN. G.C. TO HOST A BLOCKING WALK-THROUGH WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION OF GYPSUM BOARD TO VERIFY BLOCKING IS PROVIDED IN ALL NECESSARY LOCATIONS.
4. TOILET PARTITIONS & URINAL SCREENS SHALL BE HIGH DENSITY SOLID POLYMER RESIN WITH HOMOGENEOUS COLOR THROUGHOUT. 1" THICK WITH SEAMLESS CONSTRUCTION. FLOOR-MOUNTED, OVERHEAD-BRACED. FULL LENGTH BRACKETS, PIANO HINGES AT DOORS, FULL LENGTH PRIVACY DOOR STOPS, BUMPERS WITH HOOKS, AND ADA COMPLAINT DOOR OPERATION HARDWARE SHALL BE PROVIDED. ALL HARDWARE TO BE ALUMINUM. REFER TO FINISH SCHEDULE FOR BASIS-OF-DESIGN PRODUCT.
   A. CONTRACTOR TO SUBMIT PRODUCT DATA, PARTITION AND HARDWARE MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
   B. REFER TO FINISH SCHEDULE FOR BASIS OF DESIGN INFORMATION.
5. TRANSITION STRIPS SHALL BE PROVIDED AT ALL DISSIMILAR MATERIALS AND AS NOTED IN THE PLANS. INSTALL PER MANUFACTURER RECOMMENDATIONS. ALL TRANSITION STRIPS SHALL BE ADA COMPLIANT.
   A. BASIS-OF-DESIGN: AS NOTED IN FINISH SCHEDULE
   B. SUBMIT PRODUCT DATA AND MATERIAL SAMPLES TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
6. ROLLER SHADES – PROVIDE AND INSTALL MANUAL ROLLER SHADES IN ALL OUTSIDE WINDOWS WITHIN WORK AREA.
   A. BASIS-OF-DESIGN: HUNTER DOUGLAS SCREEN SHADES (OR APPROVED EQUAL), 3% SCREEN. SCREEN COLOR AND HOUSING TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. METAL CHAIN, AND ALUMINUM FASCIA SHALL BE PROVIDED.
   B. ALTERNATE TO ROLLER SHADE SHALL BE HORIZONTAL LOUVER BLINDS BY HUNTER DOUGLAS. 1" ALUMINUM BLINDS SIZED TO FIT OPENINGS, TOP MOUNTED, WITH WAND.
   C. SUBMIT PRODUCT DATA, SHADE AND HOUSING MATERIAL SAMPLES, AND SHOP DRAWINGS TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
   D. MOUNT TO HEAD CONDITION WHEREVER POSSIBLE IN LIEU OF DIRECTLY TO WINDOW/STOREFRONT FRAME.
7. FIRE EXTINGUISHER CABINETS – PROVIDE TYPE ABC EXTINGUISHERS IN SEMI-RECESSED CABINETS MOUNTED NOT HIGHER THAN 5'-4" A.F.F. TO THE HANDLE. REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF THE FIRE EXTINGUISHER CABINETS.
   A. BASIS-OF-DESIGN: JL INDUSTRIES AMBASSADOR 8116F10 WITH FULL GLASS LITE, SQUARE TRIM, AND ADA COMPLIANT PULL.
   B. SUBMIT PRODUCT DATA TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
8. ROOM SIGNAGE: PROVIDE AND INSTALL NEW INTERIOR ROOM SIGNAGE AS SHOWN IN DRAWINGS.
   A. ONE PART BLASTED MELAMINE SIGNAGE SHALL BE UTILIZED.
   B. SIGNAGE SHALL INCLUDE RAISED LETTERING, IMAGES, AND BRAIL THAT IS ADA COMPLIANT AND AS NOTED IN DRAWINGS.
   C. CONTRASTING COLORS SHALL BE INTEGRAL TO SIGN AND SHALL NOT BE PAINTED OR VINYL APPLIED.
   D. FASTENING METHOD SHALL BE 4 TAMPER-PROOF SNAKE-EYE SCREWS AND WALL ANCHORS IN ADDITION TO TWO-SIDED ADHESIVE STRIPS.
   E. SIGNS LOCATED ON GLAZING SHALL HAVE PLAIN BACKING PANEL ON OPPOSITE SIDE OF GLASS.
   F. SUBMIT PRODUCT DATA, MATERIAL SAMPLES, SHOP DRAWINGS, AND SIGN SCHEDULE TO OWNER/ARCHITECT FOR REVIEW AND APPROVAL.
9. FIBER GLASS COLUMN WRAPS
   A. 2-PIECE PRE-FORMED PAINTABLE FIBERGLASS COLUMN WRAPS.
   B. PROVIDE 1'-4" ROUND WRAP AS SHOWN ON DRAWINGS
   C. PROVIDE 1'-2" SQUARE WRAP WITH BASE AND CAPITAL MOLDING AS SHOWN ON DRAWINGS.

DIVISION 11 – EQUIPMENT

1. GC PROVIDE RECESSED PROJECTION SCREEN AS NOTED IN PLANS.
   A. SIZE: 5'-5" TALL BY 10'-0" WIDE
   B. BATTERY OPERATED SCREEN
   C. PROVIDE GYPSUM BOARD TRIM OUT KIT TO BE FLUSH WITH GYPSUM BOARD BULKHEAD BY DRAPER OR EQUAL.
2. GC PROVIDE ELECTRIC FIREPLACE BY CLIHOME OR EQUAL
   A. SIZE: 50" WIDE BY 18" TALL, ULTRA THIN, RECESSED WALL-MOUNTED, WITH REMOTE AND TIMER.
3. G.C. TO CONFIRM EQUIPMENT THAT IS TO BE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. ITEMS CURRENTLY KNOWN TO BE OWNER-PROVIDED ARE NOTED AS SUCH IN THE DRAWINGS.
4. CONTRACTOR SHALL VERIFY FINAL CONNECTION REQUIREMENTS FOR ITEMS THAT ARE TO BE SUPPLIED AND INSTALLED BY OWNER. LICENSED CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR EQUIPMENT AS REQUIRED BY AHJ.

DIVISION 12 – FURNISHINGS

1. NOT IN CONTRACT, UNLESS NOTED OTHERWISE.

DIVISION 13 – SPECIAL CONSTRUCTION (NOT APPLICABLE)

DIVISION 14 – CONVEYING EQUIPMENT (NOT APPLICABLE)

DIVISIONS 21, 22, 23, AND 26 – FIRE PROTECTIONS, PLUMBING, MECHANICAL, & ELECTRICAL

1. REFER TO PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SHEETS FOR ADDITIONAL NOTES, REQUIREMENTS, AND SPECIFICATIONS FOR THOSE SYSTEMS. SHOULD DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND PME SHEETS, OR OTHERWISE, GC SHALL PRICE THE MOST EXPENSIVE OPTION AND CONTACT THE OWNER/ARCHITECT FOR FURTHER CLARIFICATION.
2. SYSTEMS/ASSEMBLIES INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR TO PROVIDE ALL NECESSARY HANGARS, FASTENERS, ETC TO PROVIDE A COMPLETE & WORKING ASSEMBLY.
3. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL OTHER RELATED INFORMATION.
4. COORDINATE ANY PLUMBING, HVAC, & ELECTRICAL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION AS SHOWN ON ARCHITECTURAL PLANS AND AS NOTED ON THE CODE SUMMARY SHEET. ALL PENETRATIONS SHALL COMPLY WITH A UL LISTED ASSEMBLY.
5. PRIOR TO CORING FLOOR SLAB FOR POWER/COMMUNICATION POKE-THROUGH DEVICES, COORDINATE LOCATIONS WITH OWNER AND/OR OWNERS FURNISHINGS CONTRACTOR AND REVIEW WITH ARCHITECT U.N.O.
6. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLETS OR SWITCHES, OR CLUSTERS OF OUTLETS OR SWITCHES, UNLESS NOTED OTHERWISE.
7. INSTALL OUTLETS ON OPPOSITE SIDE OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK U.N.O.
8. PROVIDE MATCHING COVER PLATES AND DEVICES, UNLESS NOTED OTHERWISE.
9. GC TO COORDINATE FINAL LAYOUT OF ELECTRICAL AND DATA OUTLETS WITH FINAL SELECTION OF FURNITURE AND CASEWORK PRIOR TO INSTALLATION OF FLOOR BOXES AND RECEPTACLES U.N.O.
10. GC TO CARRY ALLOWANCE FOR TESTING AND INSTALLATION OF EMERGENCY RADIO AMPLIFICATION SYSTEM MEETING AHJ REQUIREMENTS. IF, AFTER TESTING, IT IS DETERMINED THAT THE SYSTEM IS NEEDED FOR THE BUILDING, ADDITIONAL DESIGN WILL BE REQUIRED TO INCLUDE THE SYSTEM IN THE BUILDING.

DIVISION 31, 32, & 33 – EARTHWORK, EXTERIOR IMPROVEMENTS, & UTILITIES

1. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LOCAL UTILITY PROVIDERS FOR ALL SITE WORK. CONTRACTOR RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO START OF WORK. CONTRACTOR TO WORK AROUND ANY AND ALL EXISTING UTILITIES TO LEAVE ITEMS OUTSIDE OF SCOPE UNDISTURBED. SHOULD THE CONTRACTOR UNCOVER ANY UNKNOWN UNDERGROUND ITEMS, STOP WORK IMMEDIATELY AND INFORM THE OWNER/ARCHITECT FOR REVIEW AND DIRECTION.
3. EXTERIOR CONCRETE PAVING
   A. REFER TO CIVIL DRAWINGS FOR SITE WALKS AND PAVING. IF NOT NOTED ON CIVIL PLANS, THE FOLLOWING REQUIREMENTS APPLY:
   B. PROVIDE MINIMUM 4" CONCRETE WITH WELDED WIRE FABRIC REINFORCING SIDEWALK PAVING AS NOTED IN PLANS WITH 4" POROUS STONE BASE, WITH 4" COMPACTED FILL BELOW.
   C. CONCRETE TO BE NORMAL WEIGHT, MINIMUM 3500 PSI 28-DAY COMPRESSIVE STRENGTH, WATER-CEMENT RATIO 0.58 MAX (NON-AIR-ENTRAINED), 0.46 MAX (AIR-ENTRAINED)
   D. WELDED WIRE FABRIC: ASTM A 185, WELDED STEEL WIRE FABRIC.
      a. TIE WIRE: 16 GAUGE, ANNEALED TYPE
   E. CONTROL JOINTS TO BE TOOLED, COORDINATE WITH SITE PLAN FOR LOCATIONS, SPACED EVENLY, NO GREATER THAN 5'-0" O.C.
   F. WALKING SURFACE TO HAVE NON-SLIP BROOM FINISH. ALL SLOPES AND CROSS-SLOPES SHALL COMPLY WITH ADA REQUIREMENTS UNLESS NOTED OTHERWISE. ALL CONNECTIONS TO EXISTING WALKWAYS, PAVING, AND BUILDING THRESHOLDS SHALL BE PER DRAWINGS AND MEET ADA CODES AND REQUIREMENTS.

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ALBRECHT N. McLAWHORN
11208
07/21/23

REVISIONS:

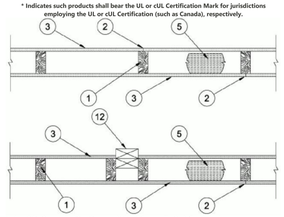
#	DESC:	DATE

DRAWN BY: JO/DJH
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
NOTES AND SPECIFICATIONS

G3.02



Design No. **U305**
February 3, 2023

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.

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)

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

CERTAINTEED GYPSUM INC — Type C, Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min), Type LWTX (finish rating 18 min), 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)

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), Type ULIX (finish rating 20 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), Type RSX (finish rating 26 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.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 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-1 (finish rating 26 min), Type EGRG or GlasRoc, LWTX.

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

USG MEXICO S A DE C V — Type SHX

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) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels 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

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.
CERTAINTEED GYPSUM INC — 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

3U. **Gypsum Board* —** (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. 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.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels 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.

3W. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5L) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field.

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

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

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/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, Insulmax, and SANCTUARY 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.

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/ft^3.
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/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
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.

5L. **Foamed Plastic* -** (Optional, Not Shown – For use with Item 3W) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP – Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL.

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. 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

6G. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 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 screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

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

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

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 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

14G. **Building Units –** (Optional Item Not Shown – For use over Gypsum Board, Item 3) 1 in., 2 in. or 3 in. thick, 4 ft. wide – Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of of ¾ in., spaced a max 8 in. o.c.

NATIONAL GYPSUM CO – Type PBCI

*** 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 2023-02-03

Design No. I501
July 09, 2020

Ceiling Membrane Rating - 1 Hr.

Load Restriction - Limited to the Dead Weight of the Assembly.

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

1. **Perimeter Channels —** Used to support steel studs at both ends of wall structure. Min. 6 in. deep with min. 2 in. legs and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Perimeter channels attached to wall structure with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg. Maximum clear span from vertical leg to vertical leg of the perimeter channels is 8 ft., 2-1/4 in.

2. **Steel Studs —** Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness).

Studs to be cut 1/2 in. to 3/4 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. O.C. At each end of the stud, the un-faced side shall be secured to the perimeter channel with one 1/2 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item1).

3. **Steel Strap —** Min 4 in. wide formed from min. No. 20 MSG galv. Steel (0.0329 in. thick bare metal thickness). Secured perpendicular to the studs at the centerline of the span using two 1/2 in. long pan-head steel screws. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, Perimeter Channels (Item 1) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, the abutted legs are installed on each side of the centerline of the span and overlap one full stud bay.

4. **Gypsum Board* —** Three layers of nom. 5/8 in. thick, 46 to 54 in. wide, gypsum board installed with long dimension perpendicular to the steel studs. Base layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to studs and perimeter channels with 1-1/4 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 1-5/8 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer joints staggered a min. 16 in. from base layer joints Face layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 2-1/4 in. long Type S steel screws spaced max. 12 in. O.C. Face layer joints staggered a min. 16 in. from middle layer joints.

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

5. **Joint Tape and Compound** — Not Shown - (Optional- Not Required On Joints. Required On Screw Heads), - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

*** 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 2020-07-09

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SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KEANANSVILLE, NC 28349

53628
11208
07/21/23

REVISIONS:

#	DESC:	DATE

DRAWN BY: Author
PROJECT #: 22015
ISSUE DATE: 07/27/23

PHASE:
CONSTRUCTION DOCUMENTS

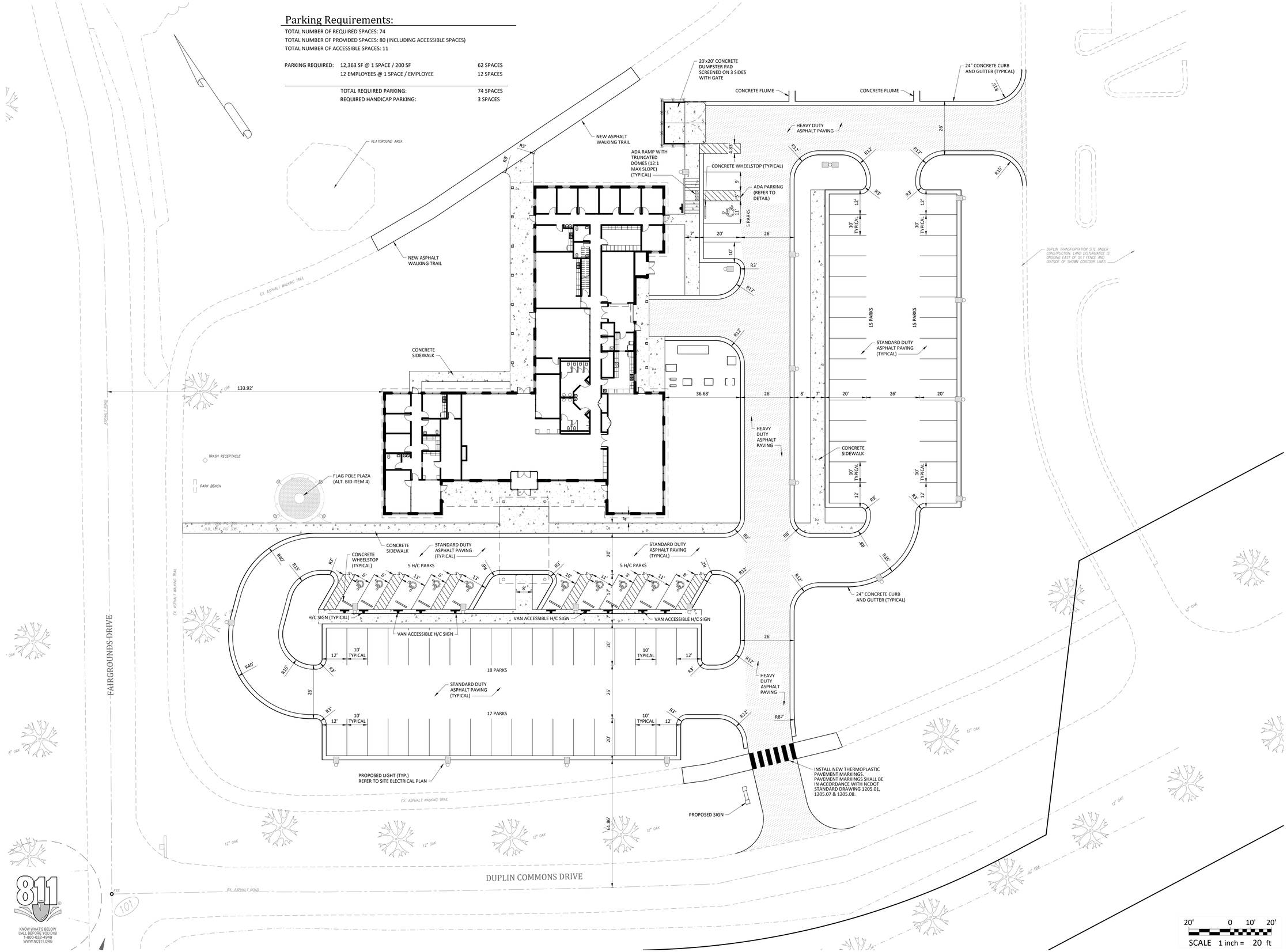
SHEET NAME & NUMBER
UL DETAILS

G3.03

Parking Requirements:

TOTAL NUMBER OF REQUIRED SPACES: 74
TOTAL NUMBER OF PROVIDED SPACES: 80 (INCLUDING ACCESSIBLE SPACES)
TOTAL NUMBER OF ACCESSIBLE SPACES: 11

PARKING REQUIRED:	12,363 SF @ 1 SPACE / 200 SF	62 SPACES
	12 EMPLOYEES @ 1 SPACE / EMPLOYEE	12 SPACES
	TOTAL REQUIRED PARKING:	74 SPACES
	REQUIRED HANDICAP PARKING:	3 SPACES



20' 0 10' 20'
SCALE 1 inch = 20 ft

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SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KENANSVILLE, NC 28349

7/21/2023

REVISIONS:

#	DESC:	DATE

DRAWN BY: KWJ
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
Construction Documents

SHEET NAME & NUMBER
SITE PLAN

C1.0

General Notes:

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE STANDARDS OF THE TOWN OF KEANANSVILLE UNIFIED DEVELOPMENT ORDINANCE.
3. DRIVEWAY APPROVAL PERMIT IS NOT REQUIRED.
4. CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
5. ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.
6. PAVEMENT SECTIONS ARE AS INDICATED ON DETAIL SHEET C-7.1.
7. PROVIDE ALL NECESSARY SIGNAGE FOR HANDICAP PARKING.
8. PARKING LOT SHALL BE STRIPED IN ACCORDANCE WITH PLAN.
9. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
10. REFER TO M.E.P. PLANS FOR COORDINATION OF BUILDING UTILITY SERVICES.
11. THIS PROJECT DISTURBS MORE THAN 1 ACRE. EROSION CONTROL PLAN APPROVAL BY NCDEQ IS REQUIRED.
12. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
13. A REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE IS REQUIRED ON THE DOMESTIC WATER SERVICE.
14. SITE SHALL MEET ALL RELATED ACCESSIBILITY CODE REQUIREMENTS.

Erosion Control Notes (Sites in excess of 1 acre)

1. ALL WORK WILL BE DONE IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL ACT OF 1973 AND THE NC DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL THE APPROPRIATE EROSION CONTROL MEASURES MAY PROCEED UNTIL MEASURES ARE INSPECTED AND APPROVED BY THE OWNER OR ENGINEER.

2. PRIOR TO TOPSOIL REMOVAL, ALL PERIMETER SILT FENCE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED. AFTER TOPSOIL REMOVAL, STORM DRAINAGE CULVERTS AND STRUCTURES SHALL BE INSTALLED. ROCK INLET SEDIMENT TRAPS SHALL BE PLACED AROUND ALL DRAINAGE STRUCTURES TO COLLECT SURFACE RUNOFF AND CONTROL SILTATION AND RELEASE WATER AT A GRADUAL RATE.

3. PARKING LOTS SHALL HAVE STONE BASE PLACED ON THEM FOR STABILIZATION AND SHOULDERS SHALL BE SEEDED TO STABILIZE THE SOIL. SEED BED PREPARATION SHALL BE CONDUCTED ACCORDING TO NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES (D.O.T.). THE GROUND SURFACE SHALL BE CLEARED OF STUMPS, STONES, ROOTS, CABLES, WIRE, GRADE STAKES, AND OTHER MATERIALS THAT MIGHT HINDER PROPER GRADING, TILLAGE, SEEDING OR SUBSEQUENT MAINTENANCE OPERATIONS. GRADES ON THE AREA TO BE SEEDED SHALL BE MAINTAINED IN A TRUE AND EVEN CONDITION. MAINTENANCE SHALL INCLUDE ANY NECESSARY REPAIRS TO PREVIOUSLY GRADED AREAS. ALL GRADED AREAS SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST FOUR (4) INCHES BY PLOWING, DISKING, HARROWING, OR OTHER APPROVED METHODS UNTIL THE CONDITION OF THE SOIL IS ACCEPTABLE. ON SITES WHERE SOIL CONDITIONS ARE SUCH THAT HIGH CLAY CONTENT AND EXCESSIVE COMPACTION CAUSE DIFFICULTY IN GETTING CLODS AND LUMPS EFFECTIVELY PULVERIZED, THE CONTRACTOR SHALL USE THE ROTARY TILLAGE MACHINERY UNTIL THE MIXING OF THE SOIL IS ACCEPTABLE AND NO CLODS OR CLUMPS REMAIN LARGER THAN 1 1/2 INCHES IN DIAMETER. A FIRM AND COMPACT SEED BED IS REQUIRED AND AFTER BEING GRADED, THE SEED BED SHALL BE LIGHTLY COMPACTED WITH A LAND ROLLER, SUCH AS A CULTIPACKER, BEFORE AND AFTER SEEDING. LIMESTONE SHALL BE DOLOMITIC AGRICULTURE GROUND LIMESTONE CONTAINING NOT LESS THAN 10 PERCENT MAGNESIUM OXIDE. LIME SHALL BE UNIFORMLY APPLIED AT THE RATE OF 2 TONS PER ACRE. FERTILIZER SHALL BE UNIFORMLY APPLIED AT A RATE OF 500 POUNDS PER ACRE OF 10-20-20 ANALYSIS. THE FERTILIZER SHALL BE INCORPORATED INTO THE UPPER THREE OR FOUR INCHES OF PREPARED SEED BED JUST PRIOR TO THE LAST TILLAGE OPERATION, BUT IN NO CASE SHALL IT BE APPLIED MORE THAN THREE DAYS PRIOR TO SEEDING. FERTILIZER SHALL BE USED IMMEDIATELY AFTER DELIVERY OR STORED IN A MANNER THAT WILL NOT PERMIT IT TO HARDEN OR DESTROY ITS EFFECTIVENESS.

   WHEN HYDROSEEDING EQUIPMENT IS USED FOR SEEDING, FERTILIZER SHALL BE APPLIED SIMULTANEOUSLY WITH SEED, USING THE ABOVE RATES OF APPLICATION. SEED SHALL BE CERTIFIED SEED OR EQUIVALENT BASED ON NORTH CAROLINA SEED IMPROVEMENT ASSOCIATION REQUIREMENTS FOR CERTIFICATION. ALL SEED SHALL BE FURNISHED IN SEALED STANDARD CONTAINERS. SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED PRIOR TO SEEDING WILL NOT BE ACCEPTABLE. SEEDING SHALL BE ACCOMPLISHED WITH HAND PLANTERS, POWER- DRAWN PLANTERS, HAND PACKERS, OR HYDROSEEDING EQUIPMENT AT THE FOLLOWING RATES:

4. GROUND STABILIZATION (PER NCG010000)
   a. SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
      i. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
      ii. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
   b. CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
      i. EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
      ii. ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY-REQUIREMENT APPLIES.
      iii. ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.
      iv. SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.
      v. ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.
      vi. FOR PORTIONS OF PROJECTS WITHIN ONE MILE AND DRAINING TO TROUT WATERS AND HIGH QUALITY WATERS AS CLASSIFIED BY THE ENVIRONMENTAL MANAGEMENT COMMISSION, STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.
      vii. FOR PORTIONS OF PROJECTS LOCATED IN OUTSTANDING RESOURCE WATERS WATERSHEDS AS CLASSIFIED BY THE ENVIRONMENTAL MANAGEMENT COMMISSION, STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.
      viii. PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IF IDENTIFIED ON THE APPROVED E&SC PLAN OR ADDED BY THE PERMITTING AUTHORITY.

5. SELF INSPECTION AND REPORTING REQUIREMENTS (PER NCG010000)

MINIMUM SELF INSPECTION AND REPORTING REQUIREMENTS ARE AS FOLLOWS UNLESS OTHERWISE APPROVED IN WRITING BY THE DIVISION OF WATER QUALITY.

   a. A RAIN GAUGE SHALL BE MAINTAINED IN GOOD WORKING ORDER ON THE SITE UNLESS ANOTHER RAIN MONITORING DEVICE HAS BEEN APPROVED BY THE PERMITTING AUTHORITY.
   b. A WRITTEN RECORD OF THE DAILY RAINFALL AMOUNTS SHALL BE RETAINED AND ALL RECORDS SHALL BE MADE AVAILABLE TO DWQ OR AUTHORIZED AGENT UPON REQUEST (NOTE: IF NO RAINFALL OCCURRED, THE PERMITTEE MUST RECORD "ZERO").
   c. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. INSPECTION RECORDS MUST BE MAINTAINED FOR EACH INSPECTION EVENT AND FOR EACH MEASURE. AT A MINIMUM, INSPECTION OF MEASURES MUST OCCUR AT THE FREQUENCY INDICATED BELOW:
      i. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSPECTED BY OR UNDER THE DIRECTION OF THE PERMITTEE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS, AND
      ii. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED BY OR UNDER THE DIRECTION OF THE PERMITTEE WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.50 INCHES OF RAIN PER 24 HOUR PERIOD.
      iii. TIMES WHEN A DETERMINATION THAT ADVERSE WEATHER CONDITIONS PREVENTED INSPECTIONS SHOULD BE DOCUMENTED ON THE INSPECTION RECORD.
   d. ONCE LAND DISTURBANCE HAS BEGUN ON THE SITE, STORMWATER RUNOFF DISCHARGE OUTFALLS SHALL BE INSPECTED BY OBSERVATION FOR EROSION, SEDIMENTATION AND OTHER STORMWATER DISCHARGE CHARACTERISTICS SUCH AS CLARITY, FLOATING SOLIDS, AND OIL SHEENS. INSPECTIONS OF THE OUTFALLS SHALL BE MADE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.50 INCHES OF RAIN PER 24 HOUR PERIOD.
   e. INSPECTIONS ARE ONLY REQUIRED TO BE MADE DURING NORMAL BUSINESS HOURS. WHEN ADVERSE WEATHER CONDITIONS WOULD CAUSE THE SAFETY OF THE INSPECTION PERSONNEL TO BE IN JEOPARDY, THE INSPECTION CAN BE DELAYED UNTIL IT IS DEEMED SAFE TO PERFORM THESE DUTIES. IF THE INSPECTION CANNOT BE DONE ON THAT DAY, IT MUST BE COMPLETED ON THE FOLLOWING BUSINESS DAY.
   f. TWENTY-FOUR HOUR REPORTING FOR VISIBLE SEDIMENT DEPOSITION
      i. THE PERMITTEE SHALL REPORT TO THE DIVISION OF WATER QUALITY CENTRAL OFFICE OR THE APPROPRIATE REGIONAL OFFICE ANY VISIBLE SEDIMENT BEING DEPOSITED IN ANY STREAM OR WETLAND OR ANY NONCOMPLIANCE WHICH MAY ENDANGER HEALTH OR THE ENVIRONMENT. (SEE SECTION IX OF THIS PERMIT FOR CONTACT INFORMATION.) ANY INFORMATION SHALL BE PROVIDED ORALLY OR ELECTRONICALLY WITHIN 24 HOURS FROM THE TIME THE PERMITTEE BECAME AWARE OF THE CIRCUMSTANCES. VISIBLE DISCOLORATION OR SUSPENDED SOLIDS IN THE EFFLUENT SHOULD BE RECORDED ON THE INSPECTION RECORD AS PROVIDED BELOW.
      ii. A WRITTEN SUBMISSION SHALL BE PROVIDED TO THE APPROPRIATE REGIONAL OFFICE OF THE DWQ WITHIN 5 DAYS OF THE TIME THE PERMITTEE BECOMES AWARE OF THE CIRCUMSTANCES. THE WRITTEN SUBMISSION SHALL CONTAIN A DESCRIPTION OF THE SEDIMENT DEPOSITION AND ACTIONS TAKEN TO ADDRESS THE CAUSE OF THE DEPOSITION. THE DIVISION OF WATER QUALITY STAFF MAY WAIVE THE REQUIREMENT FOR A WRITTEN REPORT ON A CASE-BY-CASE BASIS.
   g. RECORDS OF INSPECTIONS MADE DURING THE PREVIOUS 30 DAYS SHALL REMAIN ON THE SITE AND AVAILABLE FOR AGENCY INSPECTORS AT ALL TIMES DURING NORMAL WORKING HOURS, UNLESS THE PERMITTING AUTHORITY PROVIDES A SITE-SPECIFIC EXEMPTION BASED ON UNIQUE SITE CONDITIONS THAT MAKE THIS REQUIREMENT NOT PRACTICAL. OLDER RECORDS MUST BE MAINTAINED FOR A PERIOD OF ONE YEAR AFTER PROJECT COMPLETION AND MADE AVAILABLE UPON REQUEST. THE RECORDS MUST PROVIDE THE DETAILS OF EACH INSPECTION INCLUDING OBSERVATIONS, AND ACTIONS TAKEN IN ACCORDANCE WITH THIS PERMIT. THE PERMITTEE SHALL RECORD THE REQUIRED RAINFALL AND MONITORING OBSERVATIONS ON THE "INSPECTION RECORD FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000" FORM PROVIDED BY THE DIVISION OR A SIMILAR INSPECTION FORM THAT IS INCLUSIVE OF ALL OF THE ELEMENTS CONTAINED IN THE DIVISION'S FORM. ELECTRONIC STORAGE OF RECORDS WILL BE ALLOWED IF APPROVED BY THE PERMITTING AUTHORITY.
   h. INSPECTION RECORDS MUST INCLUDE, AT A MINIMUM, THE FOLLOWING:
      i. CONTROL MEASURE INSPECTIONS: INSPECTION RECORDS MUST INCLUDE AT A MINIMUM:

1. IDENTIFICATION OF THE MEASURES INSPECTED,
2. DATE AND TIME OF THE INSPECTION,
3. NAME OF THE PERSON PERFORMING THE INSPECTION,
4. INDICATION OF WHETHER THE MEASURES WERE OPERATING PROPERLY,
5. DESCRIPTION OF MAINTENANCE NEEDS FOR THE MEASURE,
6. CORRECTIVE ACTIONS TAKEN AND
7. DATE OF ACTIONS TAKEN.

      ii. STORMWATER DISCHARGE INSPECTIONS: INSPECTION RECORDS MUST INCLUDE AT A MINIMUM:

1. IDENTIFICATION OF THE DISCHARGE OUTFALL INSPECTED,
2. DATE AND TIME OF THE INSPECTION,
3. NAME OF THE PERSON PERFORMING THE INSPECTION,
4. EVIDENCE OF INDICATORS OF STORMWATER POLLUTION SUCH AS OIL SHEEN, FLOATING OR SUSPENDED SOLIDS OR DISCOLORATION,
5. INDICATION OF VISIBLE SEDIMENT LEAVING THE SITE,
6. ACTIONS TAKEN TO CORRECT/PREVENT SEDIMENTATION AND
7. DATE OF ACTIONS TAKEN.

      iii. VISIBLE SEDIMENTATION FOUND OUTSIDE THE SITE LIMITS: INSPECTION RECORDS MUST INCLUDE:

1. AN EXPLANATION AS TO THE ACTIONS TAKEN TO CONTROL FUTURE RELEASES,
2. ACTIONS TAKEN TO CLEAN UP OR STABILIZE THE SEDIMENT THAT HAS LEFT THE SITE LIMITS AND
3. THE DATE OF ACTIONS TAKEN.

      iv. VISIBLE SEDIMENTATION FOUND IN STREAMS OR WETLANDS: ALL INSPECTIONS SHOULD INCLUDE EVALUATION OF STREAMS OR WETLANDS ONSITE OR OFFSITE (WHERE ACCESSIBLE) TO DETERMINE IF VISIBLE SEDIMENTATION HAS OCCURRED.
      i. VISIBLE STREAM TURBIDITY - IF THE DISCHARGE FROM A SITE RESULTS IN VISIBLE STREAM TURBIDITY, INSPECTION RECORDS MUST RECORD THAT EVIDENCE AND ACTIONS TAKEN TO REDUCE SEDIMENT CONTRIBUTIONS. SITES DISCHARGING TO STREAMS NAMED ON THE STATE'S 303(D) LIST AS IMPAIRED FOR SEDIMENT-RELATED CAUSES MAY BE REQUIRED TO PERFORM ADDITIONAL MONITORING, INSPECTIONS OR APPLICATION OF MORE-STRINGENT MANAGEMENT PRACTICES IF IT IS DETERMINED THAT THE ADDITIONAL REQUIREMENTS ARE NEEDED TO ASSURE COMPLIANCE WITH THE FEDERAL OR STATE IMPAIRED-WATERS CONDITIONS. IF A DISCHARGE COVERED BY THIS PERMIT ENTERS A STREAM SEGMENT THAT IS LISTED ON THE IMPAIRED STREAM LIST FOR SEDIMENT-RELATED CAUSES, AND A TOTAL MAXIMUM DAILY LOAD (TMDL) HAS BEEN PREPARED FOR THOSE POLLUTANTS, THE PERMITTEE MUST IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE SITE IS CONSISTENT WITH THE ASSUMPTIONS AND MEETS THE REQUIREMENTS OF THE APPROVED TMDL. THE DWQ 303(D) LIST CAN BE FOUND AT: HTTP://H2O.ENR.STATE.NC.US/TMDL/GENERAL_303D.HTM/

6. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL ALL SEEDING IS ESTABLISHED AND CONSTRUCTION AREAS HAVE BEEN STABILIZED.

7. TEMPORARY SEEDING - SEED IN ACCORDANCE WITH SOIL CONSERVATION SERVICE RECOMMENDATIONS WITH REGARD TO SEED TYPE, RATE OF APPLICATION, FERTILIZER, ETC.

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KENANSVILLE, NC 28349

7/21/2023

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DRAWN BY: KWJ
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
Construction Documents

SHEET NAME & NUMBER
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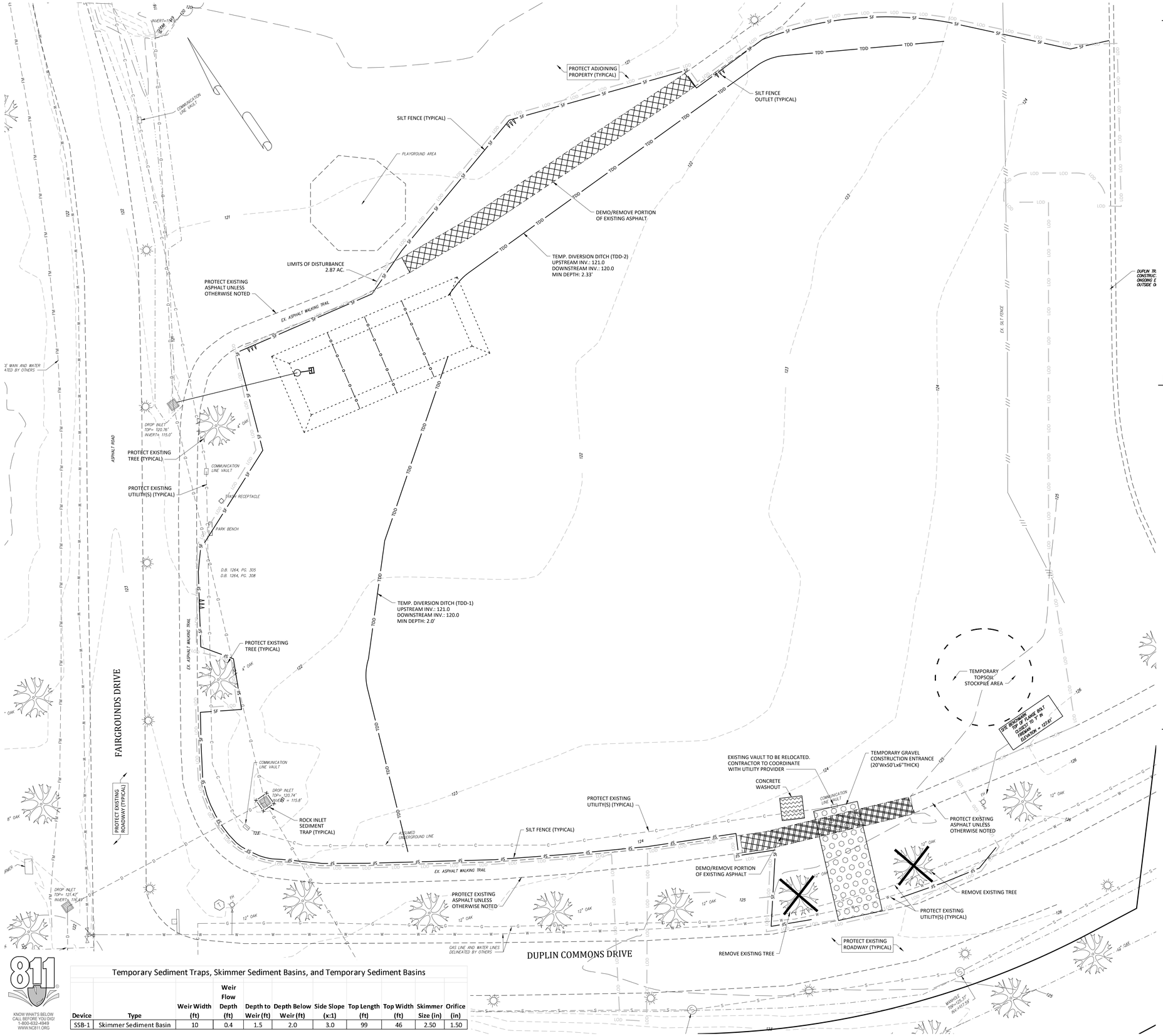

Demolition Notes:

1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
6. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
7. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
8. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
10. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
11. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES
12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

Erosion Control Provisions

1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING NCDEQ OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
2. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
3. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO $5,000.00 PER DAY OF VIOLATION.
4. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
5. EROSION CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED AS PER THE DETAIL SHEETS SHOWN.
6. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
7. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE CITY.
8. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL INSPECTOR IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES.
9. INSTALL ROCK INLET SEDIMENT TRAPS AROUND ALL CATCH BASINS, DROP INLETS, AND YARD INLETS.
10. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.

Construction Sequence:

CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL OFFICER PRIOR TO INITIATING ANY LAND DISTURBING ACTIVITY.

1. EROSION CONTROL MEASURES
2. STRIP AND STOCKPILE TOPSOIL
3. BUILDING PAD INSTALLATION
4. STORM DRAINAGE INSTALLATION
5. UTILITY INSTALLATION
6. INSTALLATION OF CONCRETE CURB & GUTTER
7. PLACEMENT OF STONE BASE
8. BUILDING CONSTRUCTION
9. UNDERGROUND ELECTRIC INSTALLATION
10. FINE GRADING OF PARKING LOTS
11. PLACEMENT OF CONCRETE / ASPHALT PAVEMENT
12. INSTALL PAVEMENT MARKINGS / SIGNAGE
13. LANDSCAPING, SEEDING & MULCHING

NOTE:

- MAINTAIN EROSION CONTROL MEASURES UNTIL VEGETATION IS ESTABLISHED (>75% COVERAGE)
- REMOVE ALL EROSION CONTROL MEASURES AND VEGETATE / STABILIZE LOCATION OF PREVIOUS EROSION CONTROL MEASURES.

SEVERAL ITEMS LISTED ABOVE MAY BE CONSTRUCTED SIMULTANEOUSLY. AN ANTICIPATED TIME SCHEDULE OF 18 MONTHS IS EXPECTED FOR THIS PROJECT.

Temporary Sediment Traps, Skimmer Sediment Basins, and Temporary Sediment Basins

Device	Type	Weir Width (ft)	Weir Flow Depth (ft)	Depth to Weir (ft)	Depth Below Weir (ft)	Side Slope (x:1)	Top Length (ft)	Top Width (ft)	Skimmer Size (in)	Orifice (in)
SSB-1	Skimmer Sediment Basin	10	0.4	1.5	2.0	3.0	99	46	2.50	1.50

811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG! 1-800-632-4949 WWW.NC811.ORG

20' 0 10' 20'
SCALE 1 inch = 20 ft

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DEMOLITION AND EROSION CONTROL PLAN

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenleyh distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt, or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

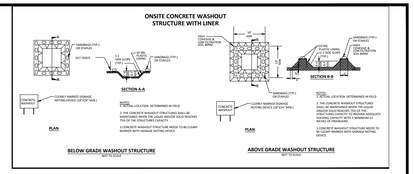
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING | EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site

and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	- ***Within 24 hours,*** an oral or electronic notification. - ***Within 7 calendar days,*** a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. - If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	- ***Within 24 hours,*** an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	- ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	- ***Within 24 hours,*** an oral or electronic notification. - ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	- ***Within 24 hours,*** an oral or electronic notification. - ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). - Division staff may waive the requirement for a written report on a case-by-case basis.

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7/21/2023

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#	DESC:	DATE

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PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
Construction Documents

SHEET NAME & NUMBER
EROSION CONTROL NOTES

C4.0

Utility Notes:

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS FOR THE RELOCATION / ABANDONMENT OF EXISTING UTILITIES AND INSTALLATION OF NEW UTILITY SERVICES AS WELL AS FEES ASSOCIATED WITH SUCH WORK.
2. COORDINATE WITH MEP PLANS FOR ELECTRICAL SERVICE INFORMATION.
3. ANY CLEANOUT THAT FALLS IN PAVEMENT WILL NEED TO BE IN A TRAFFIC RATED ROADWAY BOX .

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UTILITES PLAN

C5.0

SCALE 1 inch = 20 ft (20' 0 10' 20')

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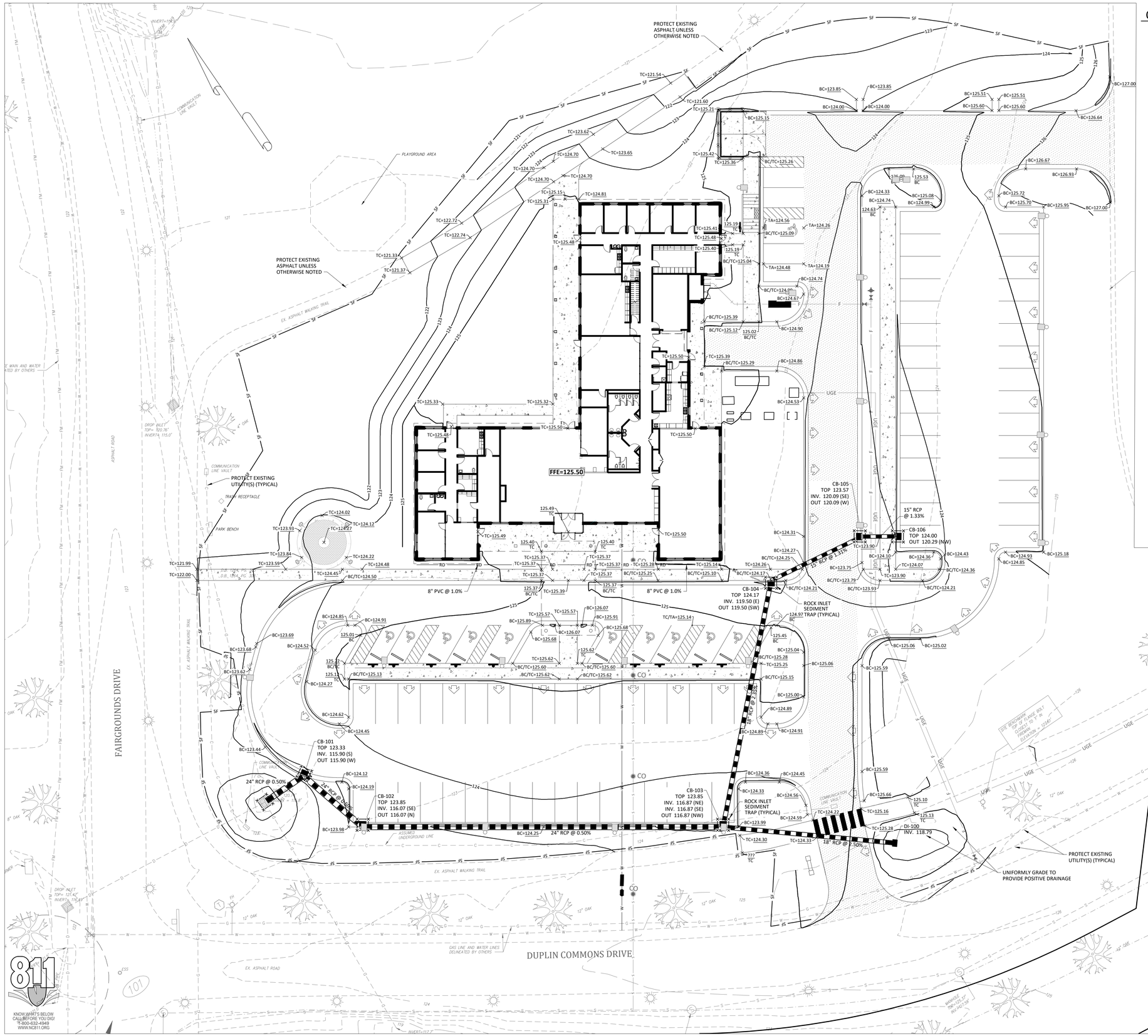

Grading Notes:

1. ALL AREAS WITHIN LIMITS OF DISTURBANCE SHALL BE CLEARED AND GRUBBED.
2. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
3. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.
4. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
6. CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW.
7. TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
8. TILL SOIL TO A DEPTH OF 4" MINIMUM.
9. REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
10. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
11. ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
12. INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.
13. DUMPSTER PAD AND APRON SHALL BE 6" THICK 4,000 PSI CONCRETE OVER NOT LESS THAN 4" OF COMPACTED AGGREGATE BASE COURSE. REINFORCING SHALL BE #4 REBAR @ 12" ON CENTER IN EACH DIRECTION. REBAR SHALL BE LOCATED IN UPPER 1/3 OF SLAB AND SUPPORTED ON CHAIRS.
14. ALL SIDEWALKS SHALL BE CONSTRUCTED OF 4" THICK 3,500 PSI CONCRETE REINFORCED WITH 6x6 W1.4xW1.4 WELDED WIRE FABRIC. ALL SIDEWALKS SHALL HAVE TOOLED CONTROL JOINTS NOT EXCEEDING 5' SPACING IN ANY DIRECTION.
15. ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 100% OF ASTM D698 TO A DEPTH OF 24" AND TO 95% OF ASTM D698 BELOW 24" DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM D698.
16. ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.

Permanent Seeding Schedule

SEED BED PREPARATION	
LIME	- 2 TONS PER ACRE
FERTILIZER (10-20-20)	- 500 POUNDS PER ACRE
SEEDING MIXTURE:	
(JANUARY 1 - MARCH 31)	
COMMON BERMUDA GRASS (UNHULLED)	- 20 POUNDS PER ACRE
RYE (GRAIN)	- 25 POUNDS PER ACRE
(APRIL 1 - JULY 31)	
COMMON BERMUDA GRASS (HULLED)	- 15 POUNDS PER ACRE
WEEPING LOVEGRASS	- 5 POUNDS PER ACRE
CENTIPEDE	- 8 POUNDS PER ACRE
(AUGUST 1 - DECEMBER 31)	
COMMON BERMUDA GRASS (UNHULLED)	- 20 POUNDS PER ACRE
TALL FESCUE	- 60 POUNDS PER ACRE
RYE (GRAIN)	- 25 POUNDS PER ACRE
SEED BED PROTECTION:	
STRAW MULCH	- 2 TONS PER ACRE (VISUAL)
ASPHALT TACK	- 0.03 GALLONS PER SQUARE
YARD	

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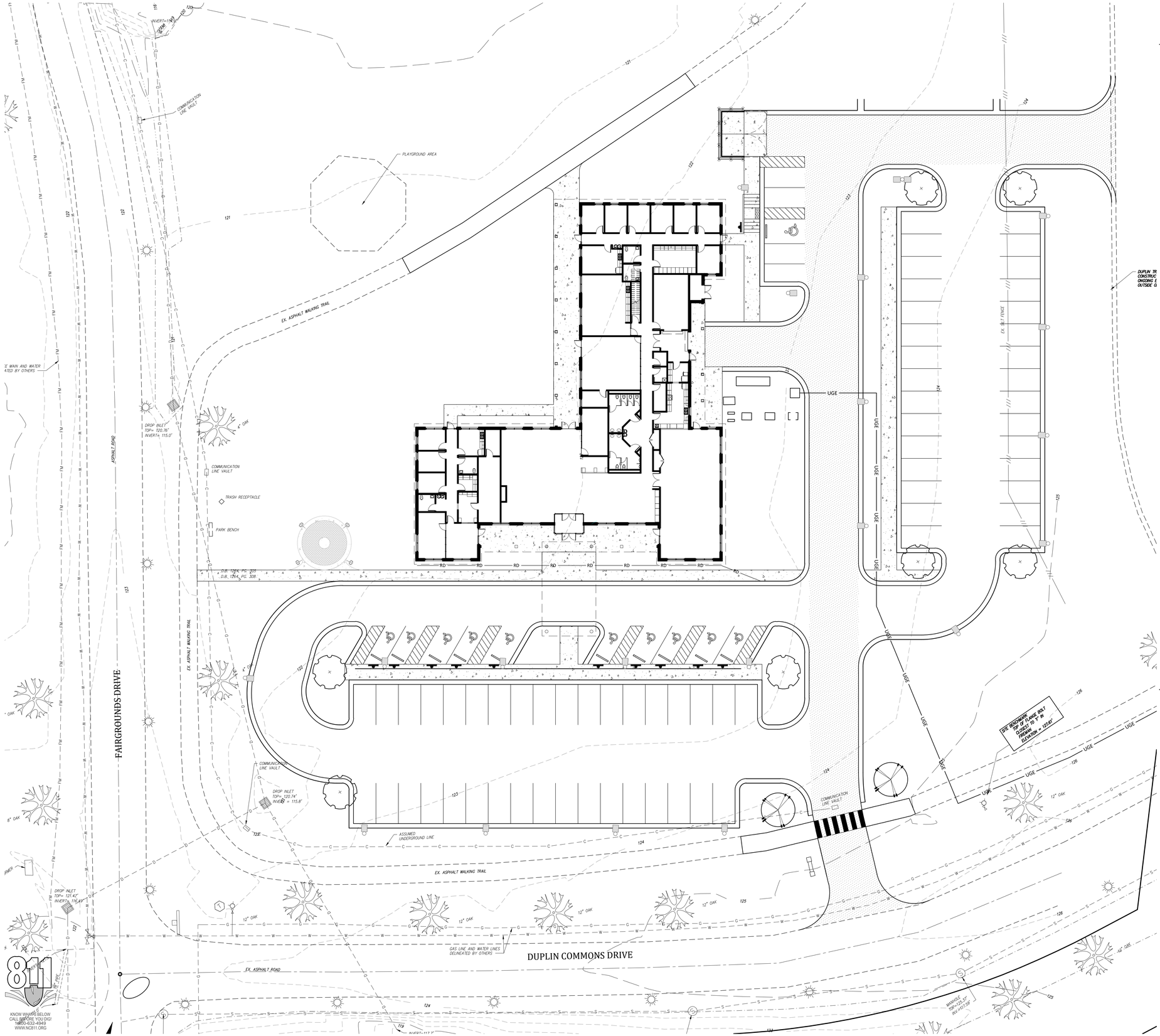
GRADING PLAN

C6.0



Landscaping Notes:

1. SITE DATA:
   - A. REQUIRED VEGETATION FOR LOT:
     PARKING LOT TREES: 7 (7 PROVIDED)
   - B. REQUIRED STREET VEGETATION:
     LARGE TREES: (2) PROVIDED TO REPLACE REMOVED EXISTING
2. NOTES:
   - A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS AS FOLLOWS:

PLANTING MATERIAL TYPE	MINIMUM PLANTING SIZE
1. LARGE TREE - SINGLE STEM	10' (HEIGHT AND 2" CALIPER
- MULTI-STEM	10' (HEIGHT)
2. SMALL TREE	8' (HEIGHT) AND 1.5" CALIPER
3. SHRUB	18" (HEIGHT), EXCEPT AS PROVIDED

   - B. SITE PLAN APPROVAL FROM THE RESPECTIVE EASEMENT HOLDER SHALL BE CONSTRUED AS APPROVAL OF ALL ENCROACHMENTS, AS SHOWN. ON THIS PLAN.
   - C. NO LARGE TREES TO BE PLANTED WITHIN SANITARY SEWER, WATERLINE OR ELECTRIC EASEMENTS.
   - D. MINIMUM OF 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

Vegetation Legend:

PROPOSED STREET TREE

PROPOSED PARKING LOT SCREENING TREE

20' 0 10' 20'

SCALE 1 inch = 20 ft

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LANDSCAPING PLAN

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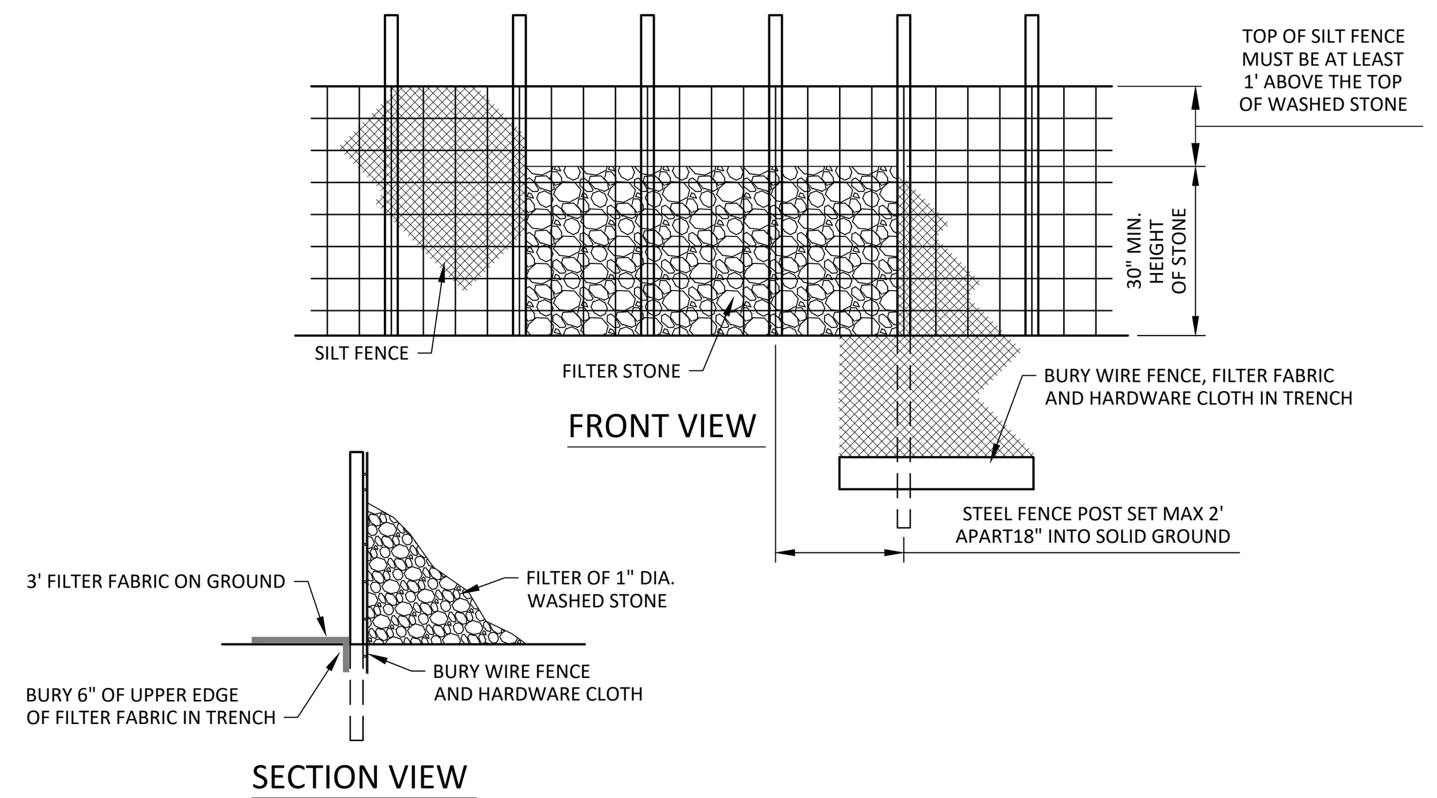
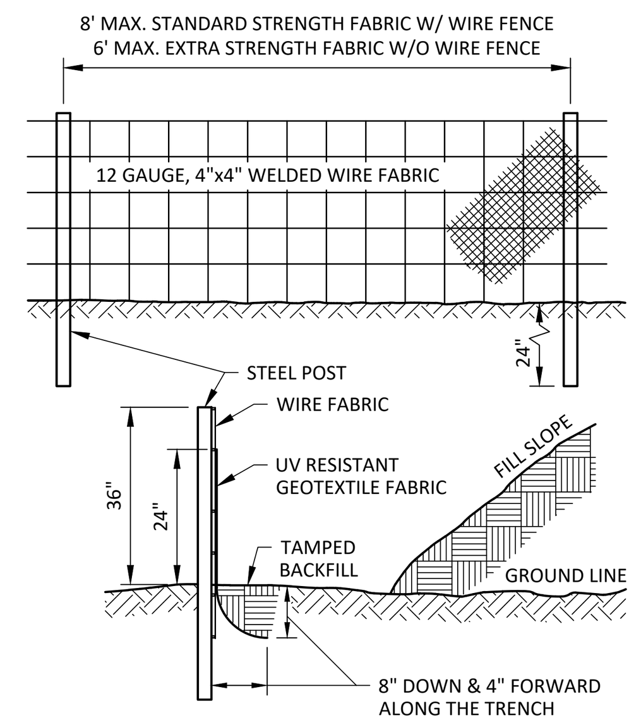


SILT FENCE OUTLET

NOT TO SCALE

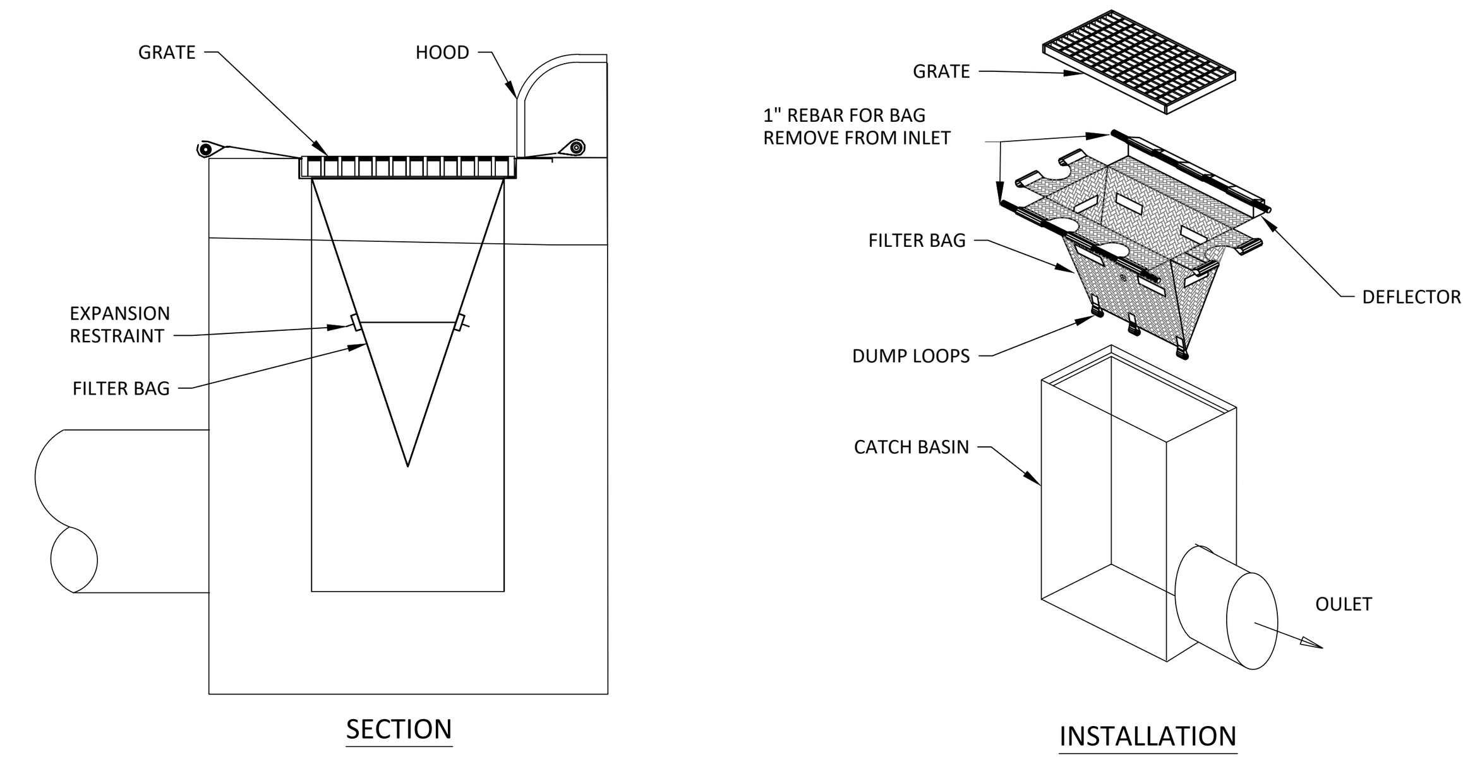
NOTES:

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED



TEMPORARY SILT FENCE

NOT TO SCALE



MAINTENANCE:

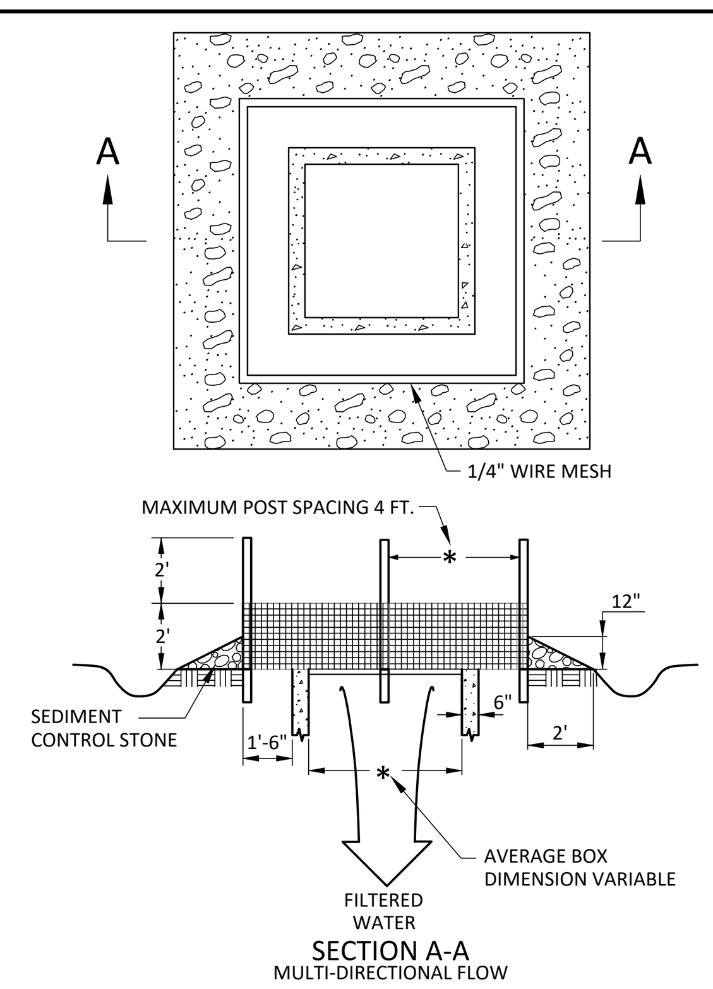
INSPECT FILTER BAG AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (½ INCH OR GREATER) AND CLEAN AS NEEDED. REMOVE SEDIMENT AND CLEAN FILTER WHEN FILTER BAG IS 1/2 FULL OF SEDIMENT TO MAINTAIN EFFICIENCY AND FLOW THROUGH FILTER BAG. ONCE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED AND APPROVAL OF INSPECTOR HAS BEEN GRANTED, REMOVE SEDIMENT FILTER BAG FROM INLET.

NOTES:

1. FILTER TYPES SHALL BE APPROVED BY THE INSPECTOR PRIOR TO INSTALLATION.
2. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE INSPECTOR.
3. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
4. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING NCDOT ROADS.

FILTER BAG INLET PROTECTION

NOT TO SCALE



NOTES:

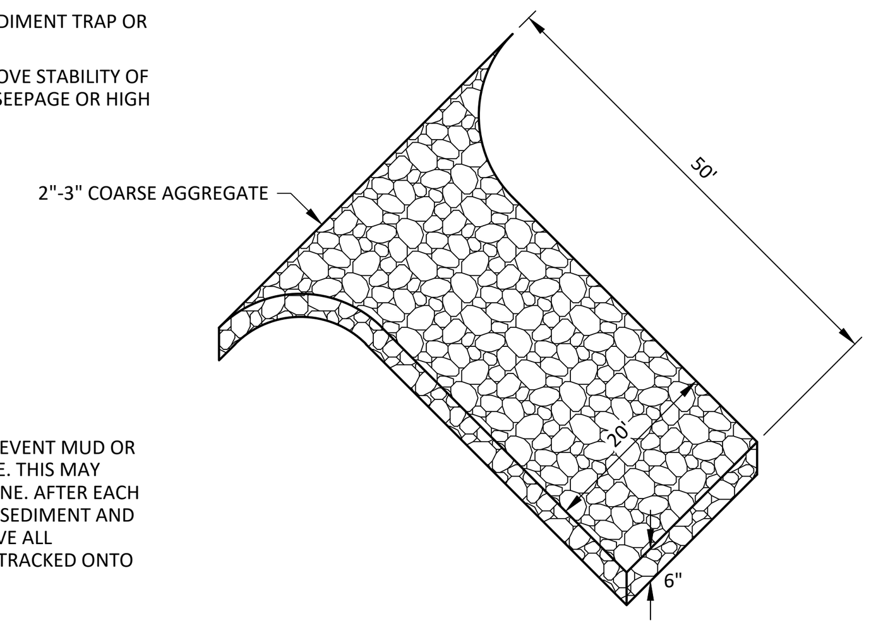
1. SEDIMENT CONTROL STONE SHALL BE NO. 5 OR NO. 57 AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON "SEDIMENT CONTROL STONE."
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4 INCH MESH OPENINGS.TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
3. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER. POST SPACING SHALL BE A MAXIMUM OF 4 FT.
5. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

ROCK INLET SEDIMENT TRAP

NOT TO SCALE

NOTES:

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

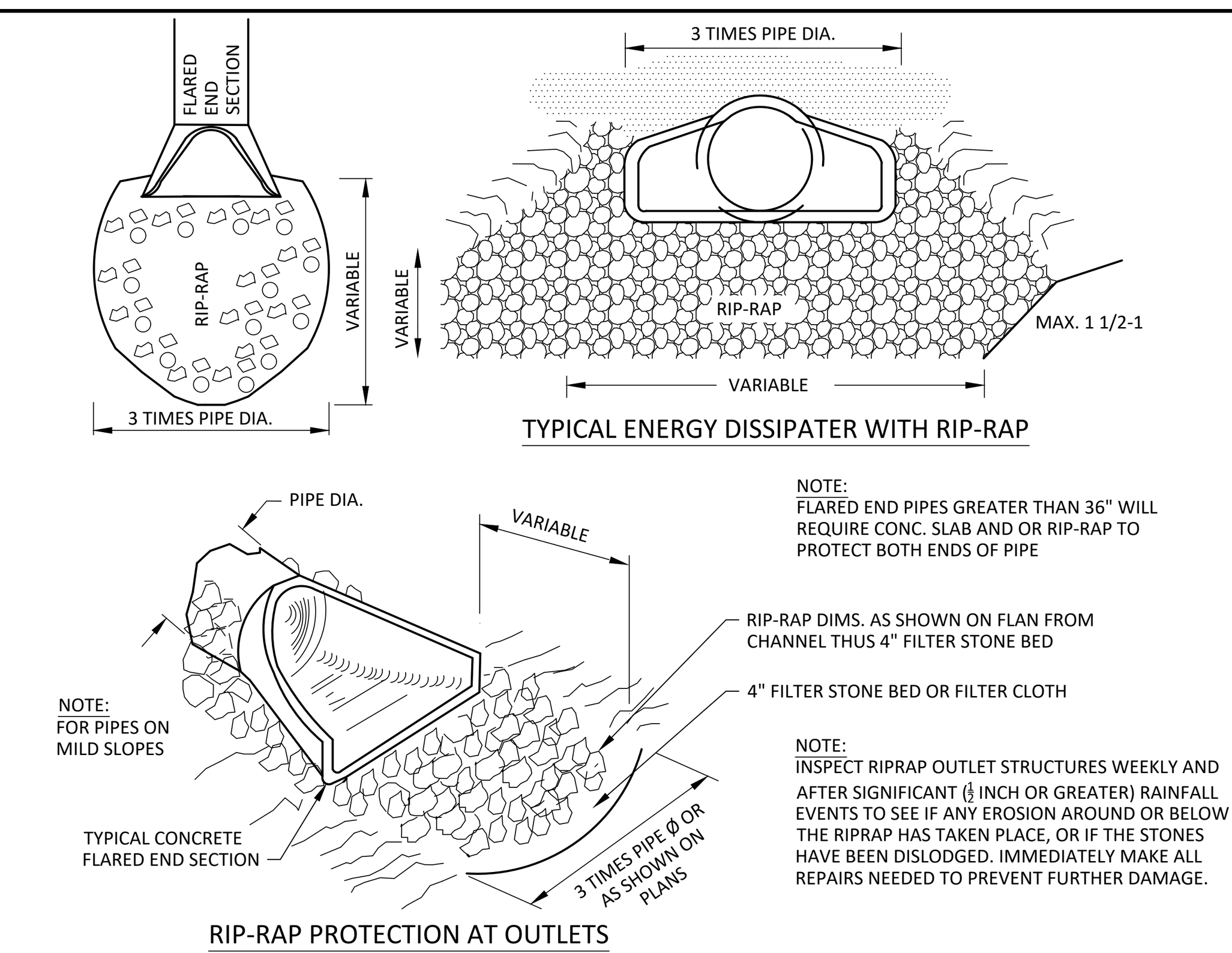


NOTE:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

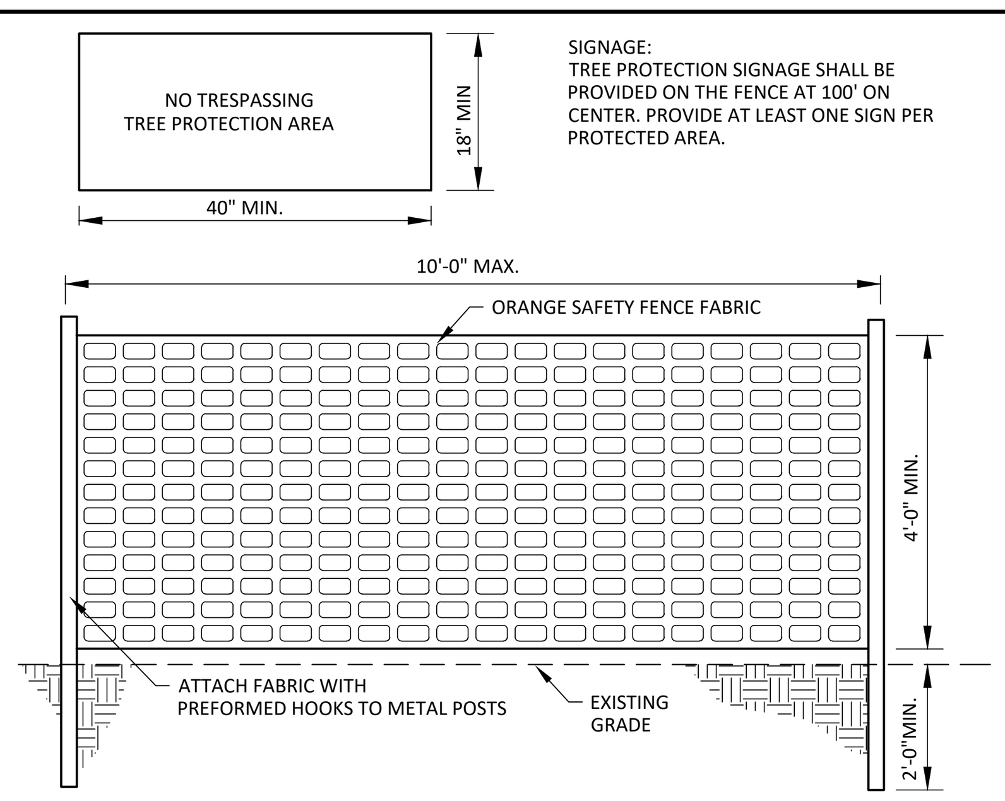


NOTE:
FLARED END PIPES GREATER THAN 36" WILL REQUIRE CONC. SLAB AND OR RIP-RAP TO PROTECT BOTH ENDS OF PIPE

NOTE:
INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF THE STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL REPAIRS NEEDED TO PREVENT FURTHER DAMAGE.

TYPICAL ENERGY DISSIPATORS

NOT TO SCALE



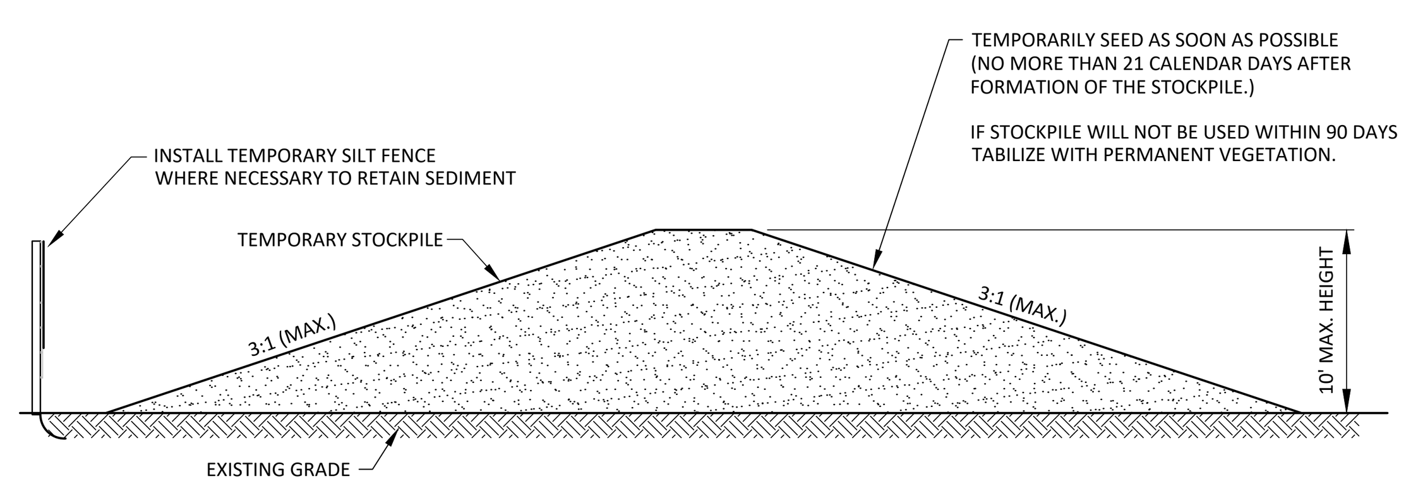
SIGNAGE:
TREE PROTECTION SIGNAGE SHALL BE PROVIDED ON THE FENCE AT 100' ON CENTER. PROVIDE AT LEAST ONE SIGN PER PROTECTED AREA.

NOTES:

1. FENCING SHALL BE INSTALLED AFTER CLEARING AND PRIOR TO COMMENCEMENT OF GRADING.
2. INSTALL FENCING AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
3. ALL TREES TO BE SAVED IN AREAS TO BE GRADED SHALL RECEIVE FENCING.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THE FENCING UNTIL ALL SITE WORK IS COMPLETED.
5. FENCING SHALL BE REMOVED PRIOR TO THE FINAL SITE INSPECTION.
6. NO GRADING, PUMPING, STORAGE, PEDESTRIAN OR VEHICULAR TRAFFIC ALLOWED IN FENCED AREAS.

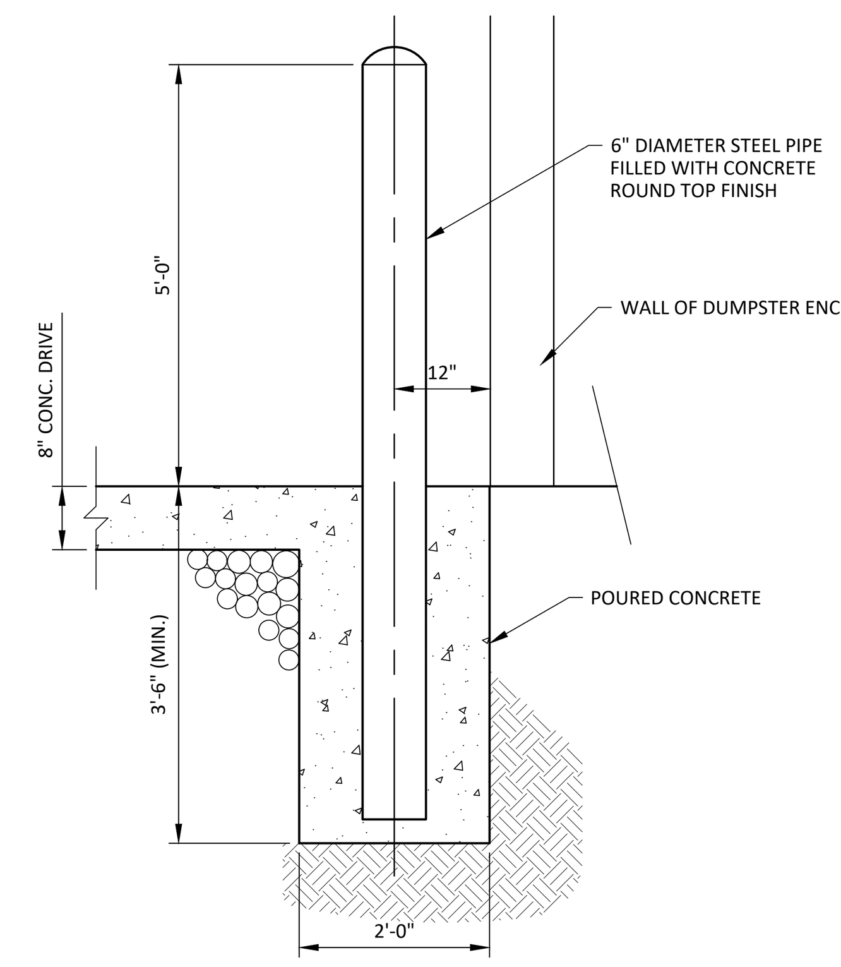
TREE PROTECTION FENCING / BARRIER FENCING

NOT TO SCALE



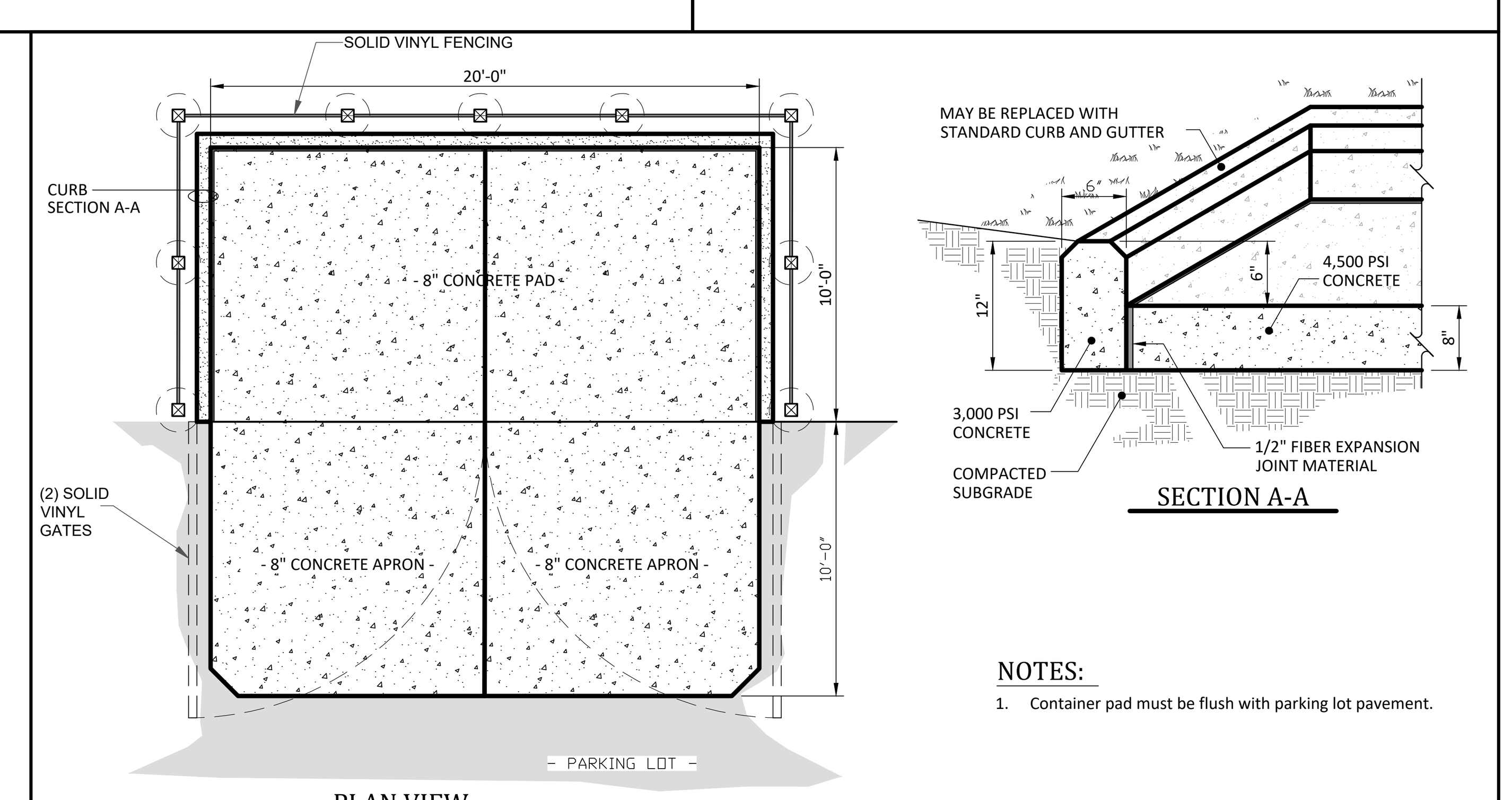
TEMPORARY STOCKPILE

NOT TO SCALE



DUMPSTER BOLLARD

NOT TO SCALE

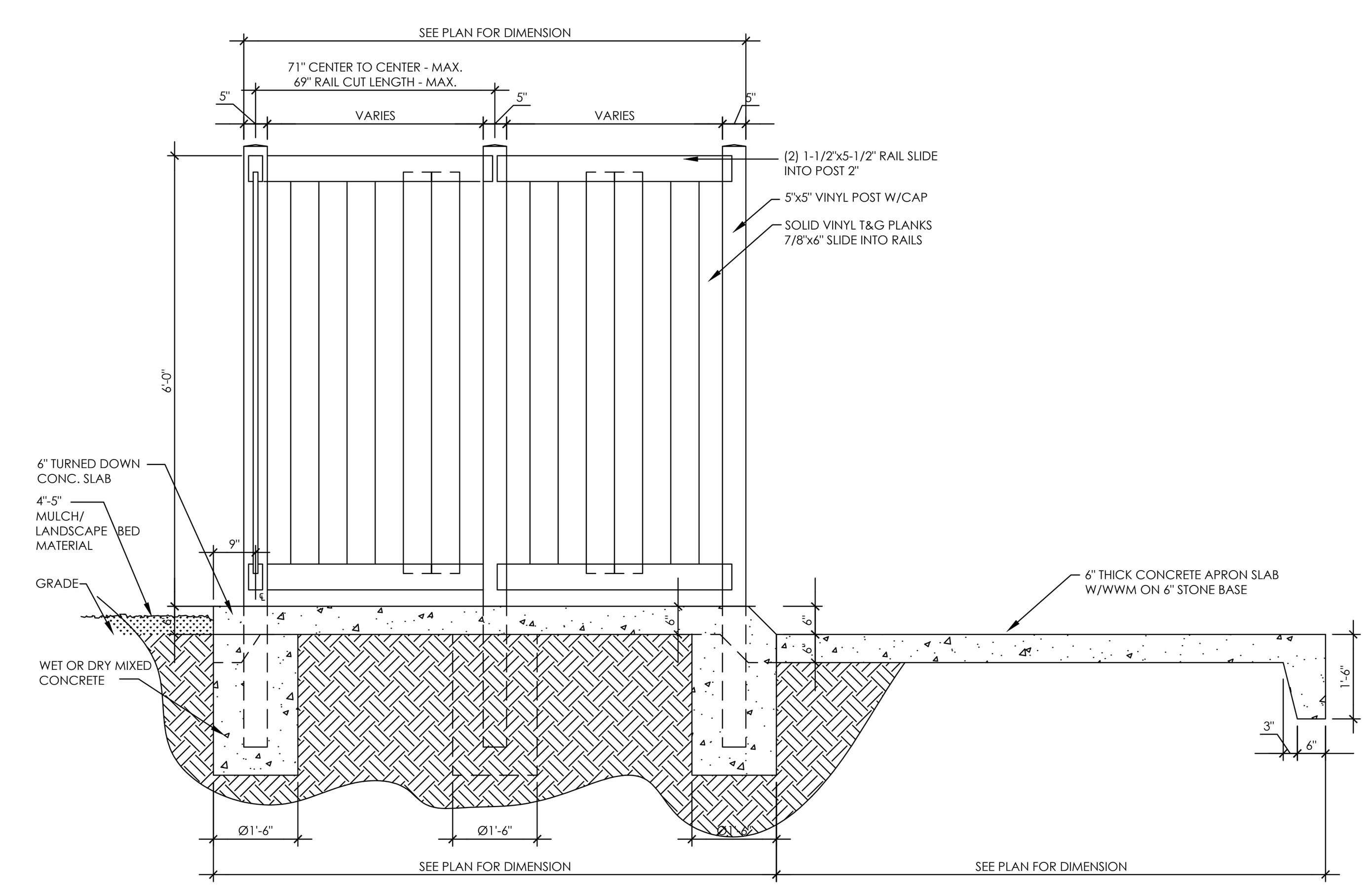


NOTES:

1. Container pad must be flush with parking lot pavement.

DUMPSTER PAD

NOT TO SCALE



DUMPSTER VINYL SLATS

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DETAILS

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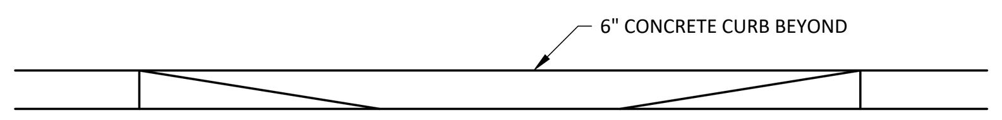
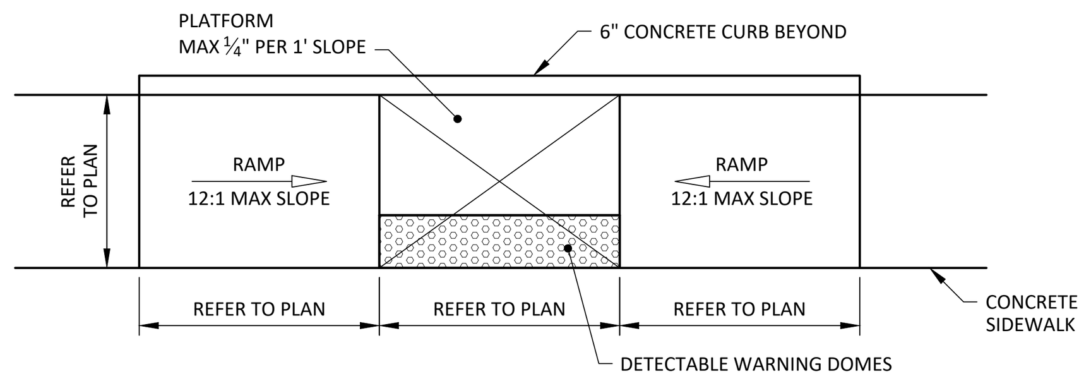
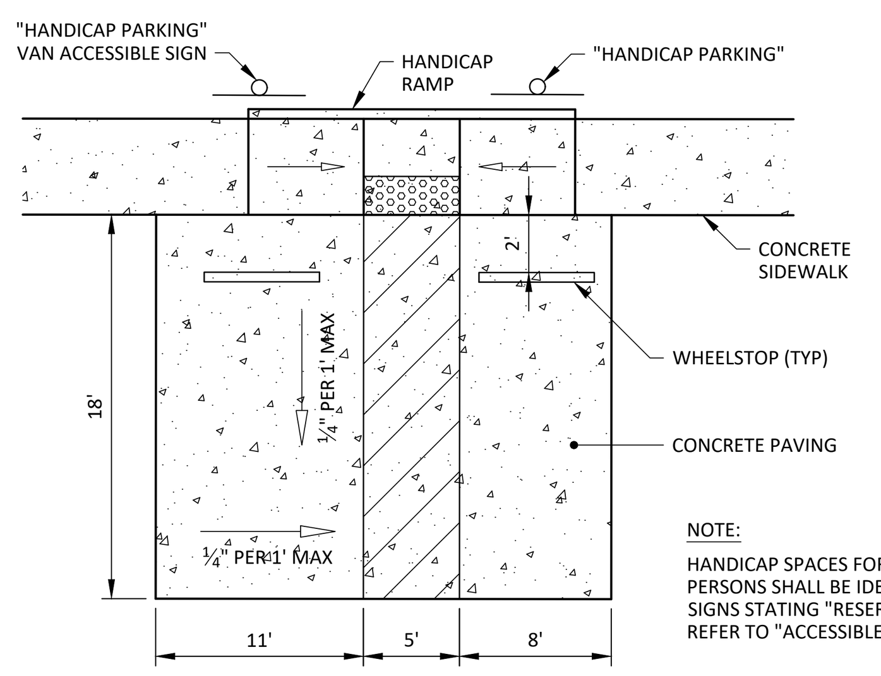


RAMP DETAIL - SECTION



RAMP DETAIL - PLAN

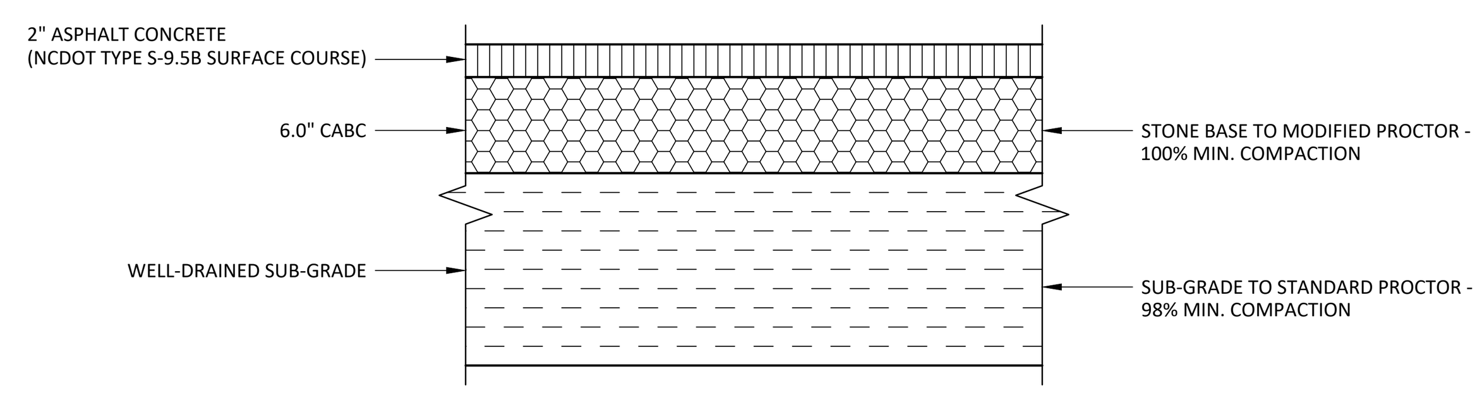


NOTE:
HANDICAP SPACES FOR PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED BY ABOVE-GRADE SIGNS STATING "RESERVED PARKING". REFER TO "ACCESSIBLE PARKING SIGN" DETAIL.

TYPICAL PARKING DETAIL - (REFER TO PLAN)

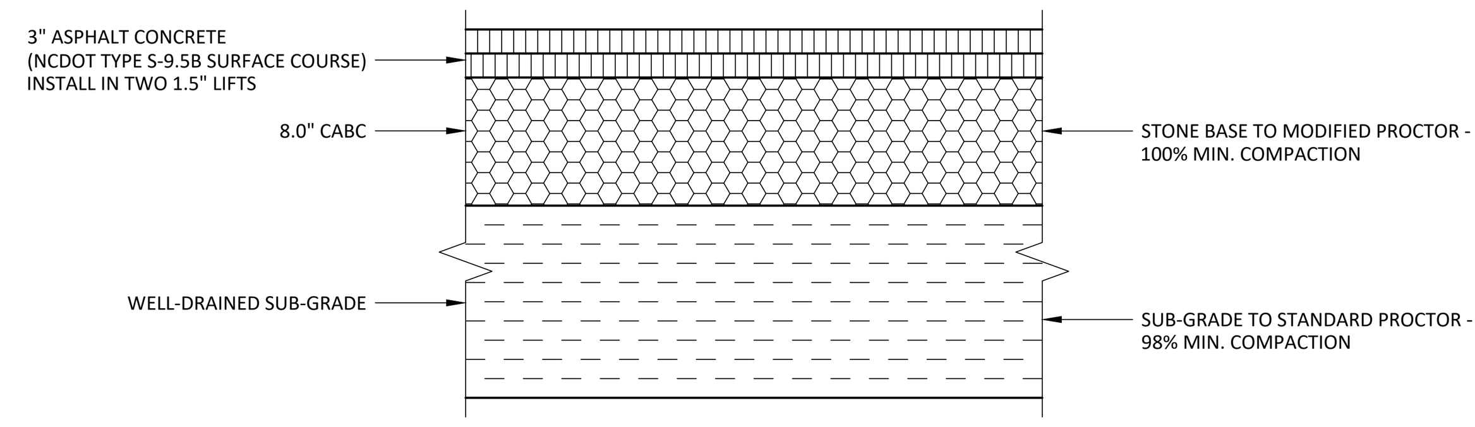
ACCESSIBLE PARKING DETAIL

NOT TO SCALE



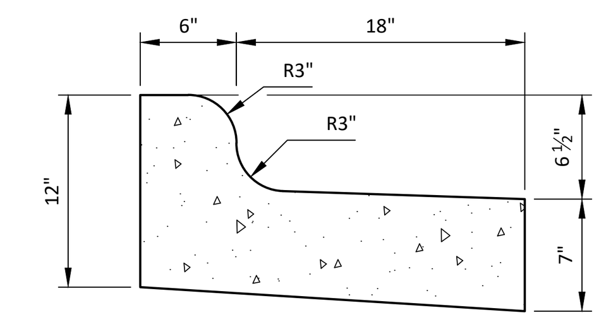
STANDARD ASPHALT PAVEMENT SECTION

NOT TO SCALE

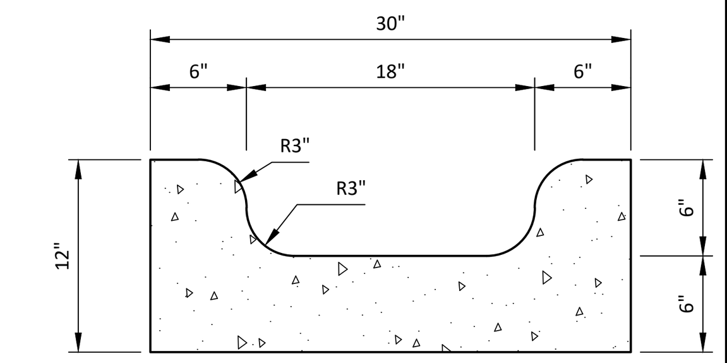


HEAVY DUTY ASPHALT PAVEMENT SECTION

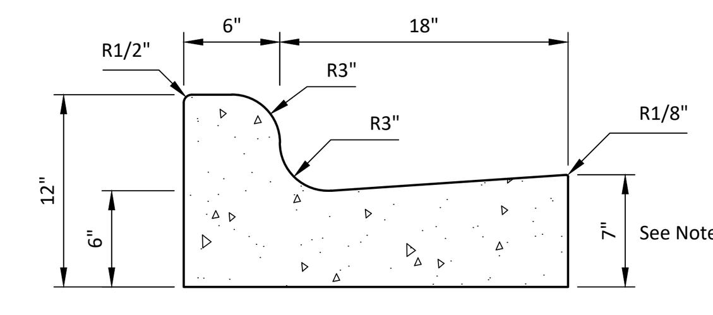
NOT TO SCALE



24" CONCRETE CURB AND GUTTER - SPILL



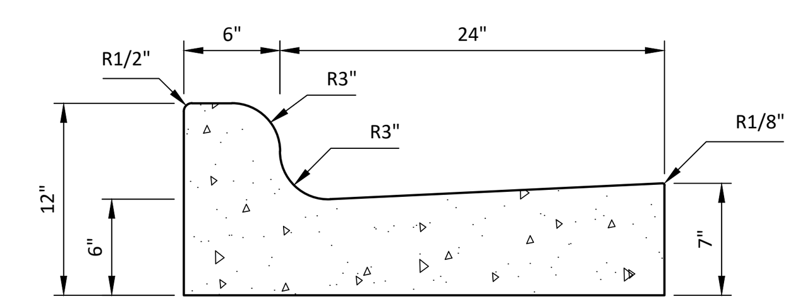
SPECIAL GUTTER



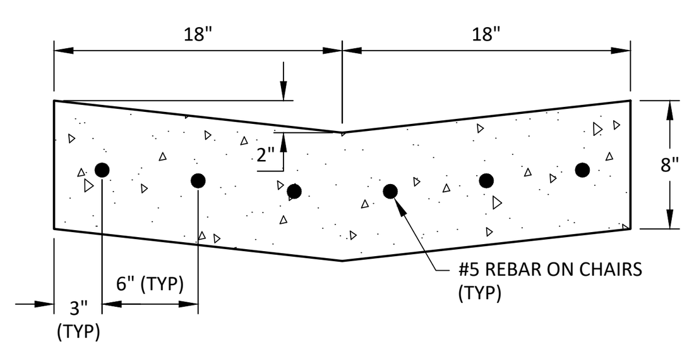
24" CONCRETE CURB AND GUTTER

GENERAL NOTES:

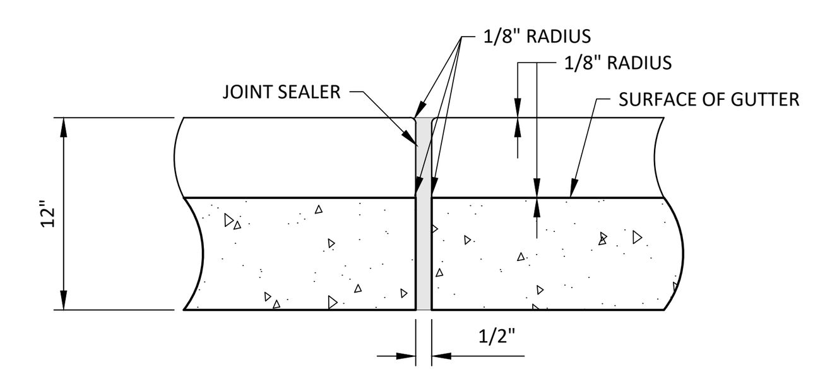
1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS "A" CONCRETE. (3000 PSI)
6. FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 200.



30" CONCRETE CURB AND GUTTER

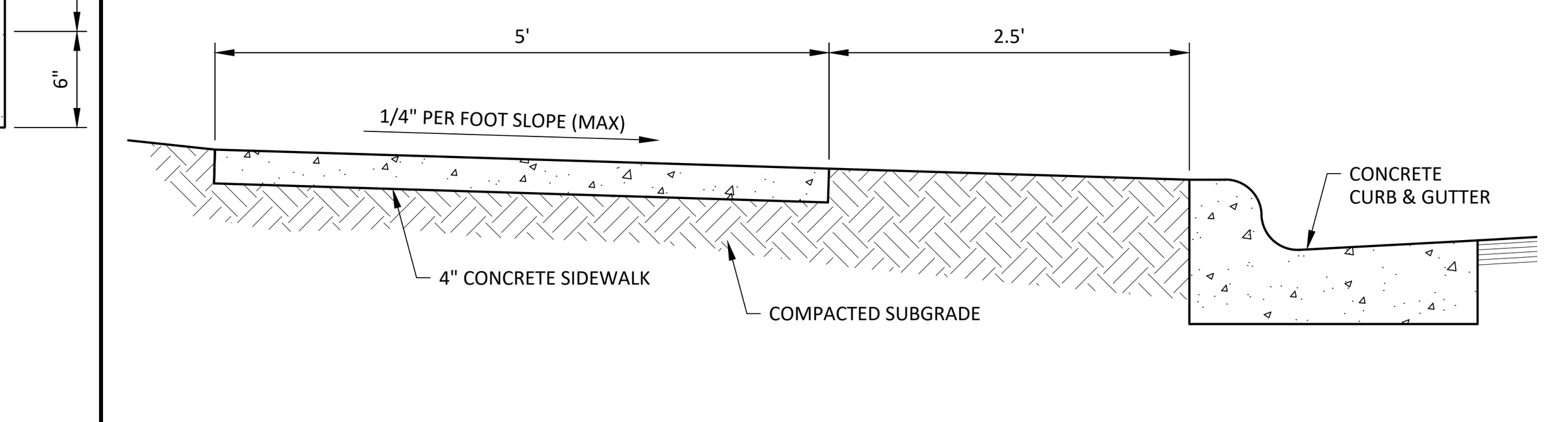


CONCRETE VALLEY GUTTER



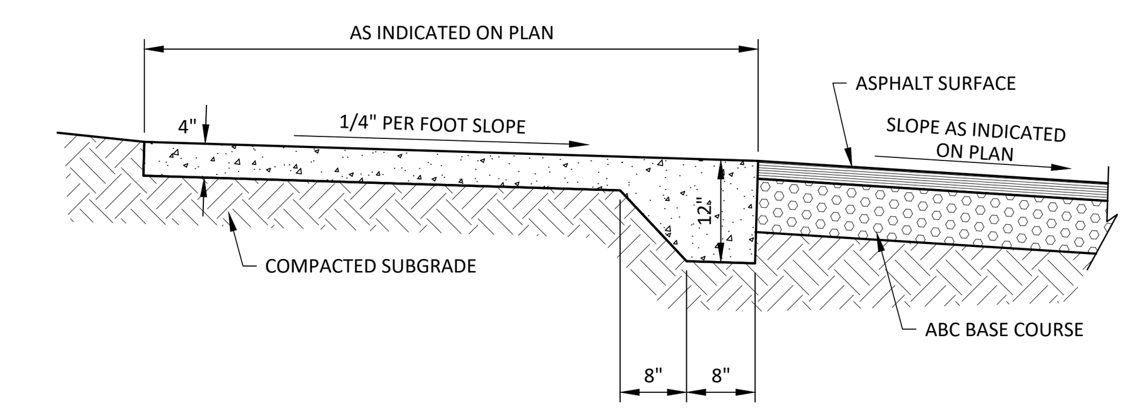
CURB AND GUTTER DETAIL

NOT TO SCALE



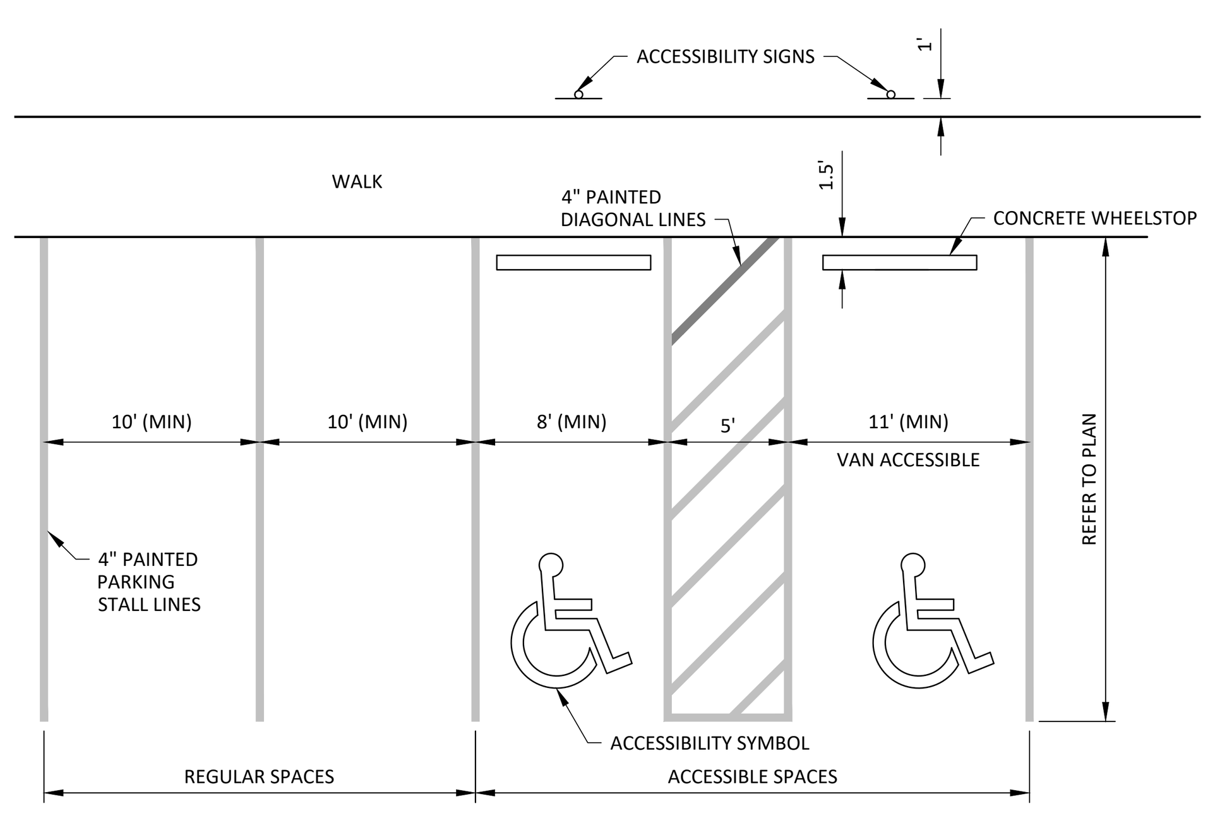
SIDEWALK DETAIL

NOT TO SCALE



THICKENED EDGE CONCRETE WALK

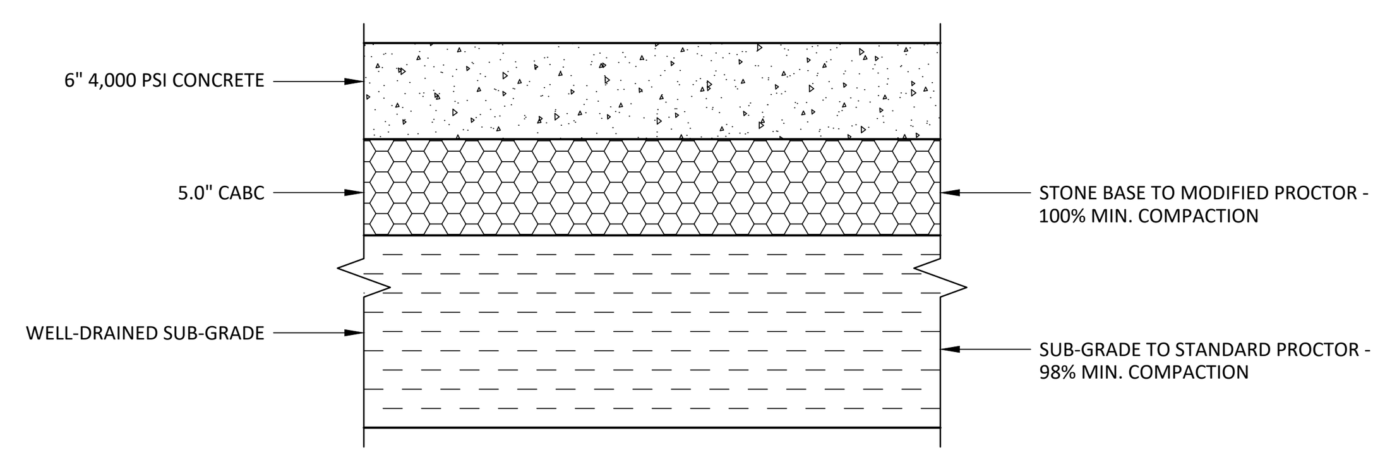
NOT TO SCALE



NOTE:
ACCESSIBLE SPACE FOR VANS MUST BE 11' WIDE WITH 5' ACCESS AISLES AND BE DESIGNATED FOR VANS

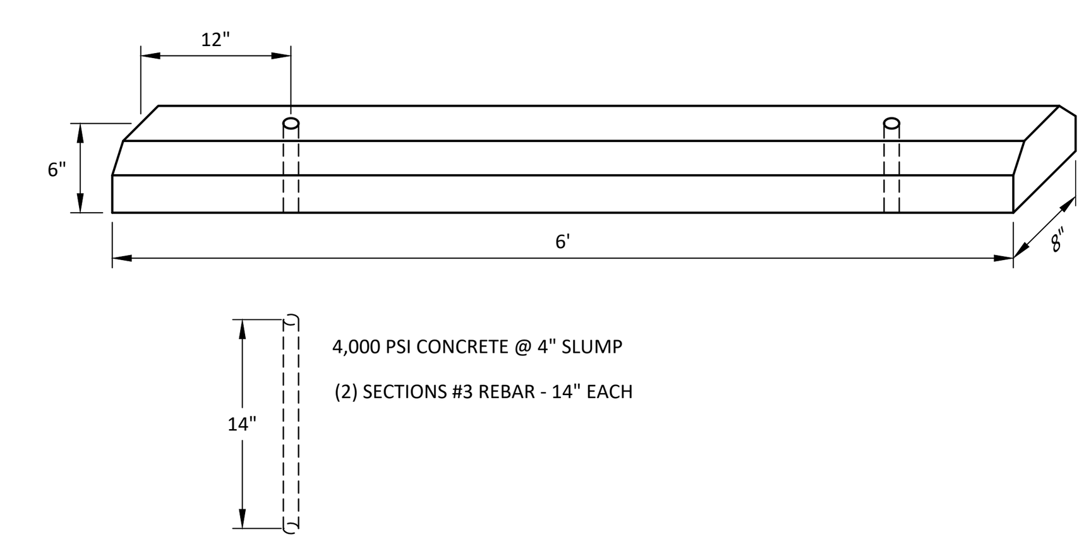
PARKING STALL LAYOUT

NOT TO SCALE



CONCRETE PAVEMENT SECTION

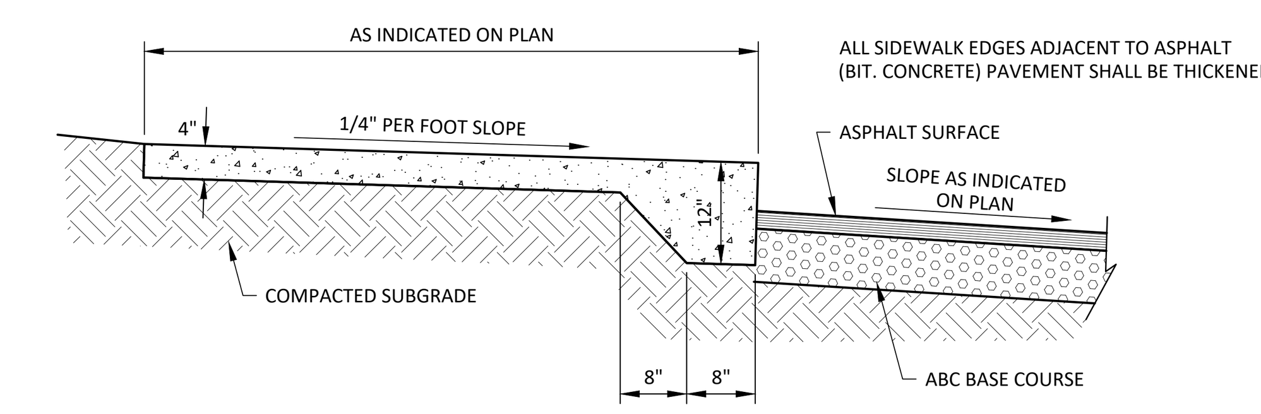
NOT TO SCALE



NOTES:
1. WHEEL STOPS SHALL BE PAINTED "SAFETY YELLOW"
2. WHEEL STOPS SHALL BE INSTALLED 2' FROM EDGE OF OBSTRUCTION, EDGE OF PAVEMENT, OR FACE OF CURB

CONCRETE WHEEL STOP

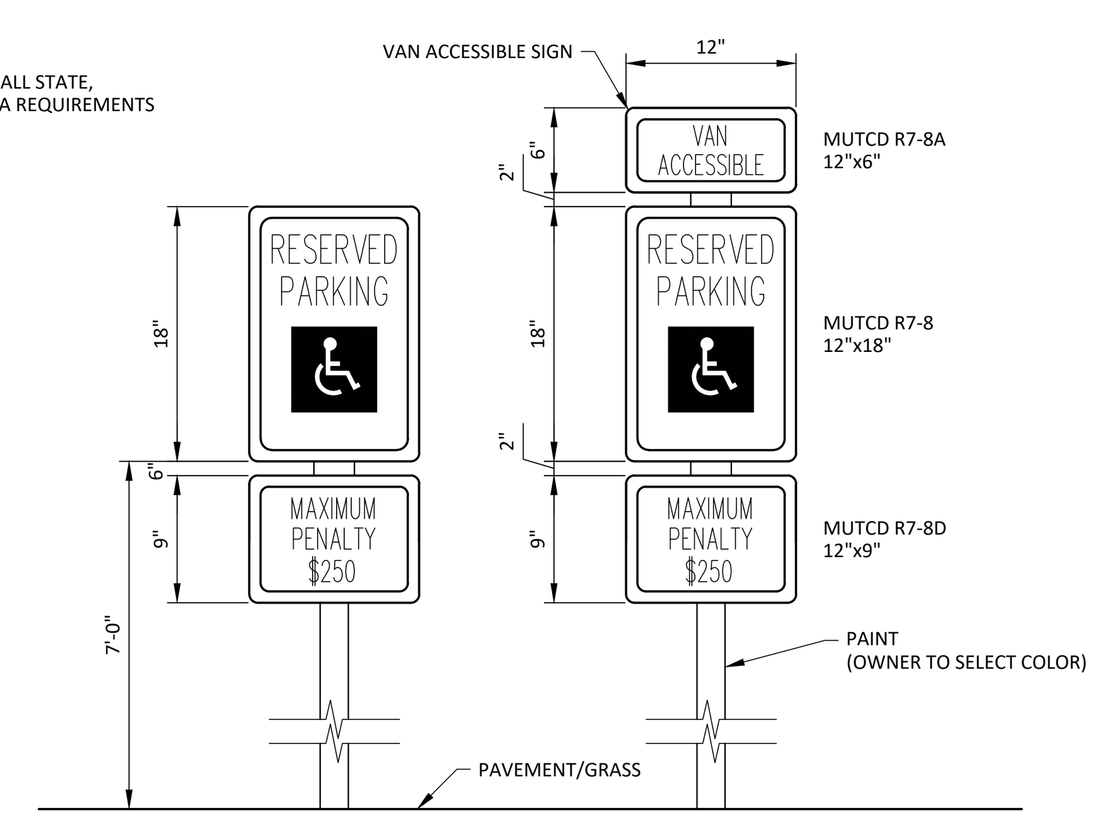
NOT TO SCALE



RAISED THICKENED EDGE CONCRETE WALK

NOT TO SCALE

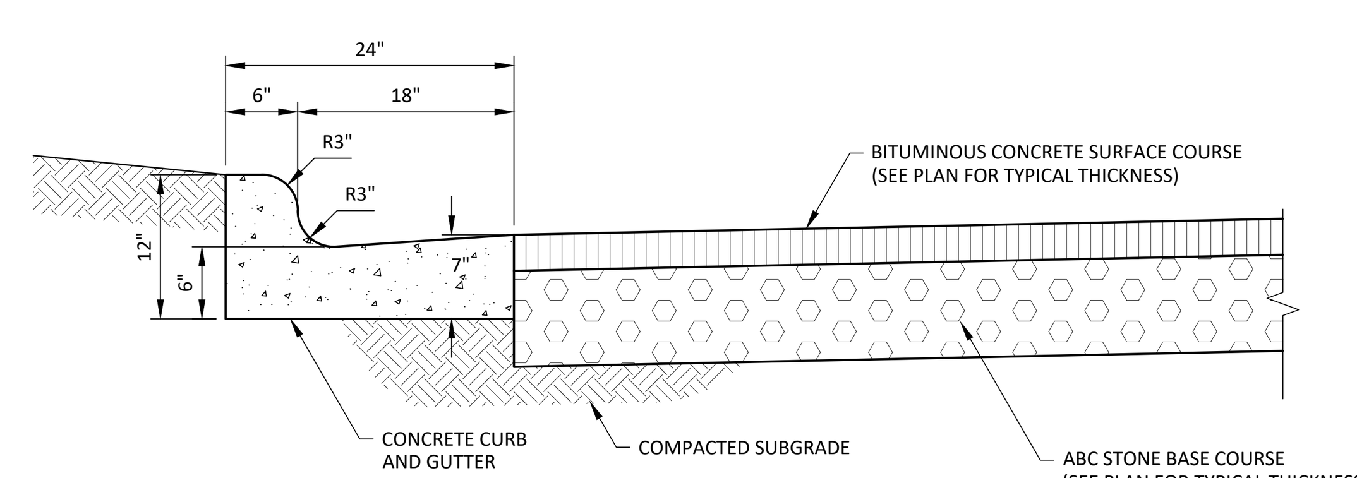
NOTE:
SIGN TO MEET ALL STATE, LOCAL AND ADA REQUIREMENTS



NOTES:
1. MOUNT POST IN SIDEWALK. PROVIDE PROTECTION FOR POST.
2. PAINT STEEL/METAL POST TO MATCH BUILDING.

ACCESSIBLE PARKING SIGN

NOT TO SCALE



CURB AND GUTTER AND PAVEMENT DETAIL

NOT TO SCALE

INTREPID ARCHITECTURE
114 E. 3RD STREET: GREENVILLE, NC 27858
p:1.252.270.5330
www.INTREPIDarchitecture.com

AND

SENIOR & VETERAN SERVICES CENTER

Duplin County

DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KEANANSVILLE, NC 28349

7/21/2023

ARK CONSULTING GROUP, PLLC
ENGINEERS & PLANNERS
NC License: P-1199

REVISIONS:

#	DESC:	DATE

DRAWN BY: KWJ
PROJECT #: 22015
ISSUE DATE: 07/21/23

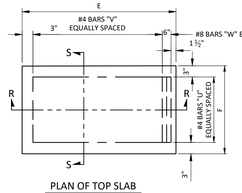
PHASE:
Construction Documents

SHEET NAME & NUMBER

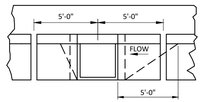
DETAILS

C8.1

STANDARD BRICK	DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN																15"-54" PIPE
DIMENSIONS OF BOX AND PIPE								COVER	REINFORCEMENT						CUBIC YARDS OF CONCRETE IN BOX			BRICK MASONRY
PIPE	SPAN	WIDTH	WIDTH	SPAN	HEIGHT	HEIGHT		DIMENSIONS	BARS-U		BARS-V		BARS-W		TOTAL				H'
D	A	B	C	G	MIN. H'	H'		E	F	No.	LENGTH	No.	L	No.	L	LBS	TOP SLAB	FLOOR	TOTAL	CU. YDS	PER FT. OF HEIGHT
15"	3'-0"	2'-2"	---	---	---	2'-6"	---	---	---	---	---	---	---	---	---	---	0.281	0.281	0.802		0.321 ABOVE MINIMUM H'
18"			---	---	---	2'-10"	---	---	---	---	---	---	---	---	---	---	0.281	0.281	0.909		
24"			---	---	---	3'-4"	---	---	---	---	---	---	---	---	---	---	0.281	0.281	1.070		
30"			3'-4"	---	3'-2"		3'-10"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.306		
36"			3'-10"	---	3'-8"		3'-4"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.586		
42"			---	4'-5"	4'-4"		2'-1"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	1.811		0.321 ABOVE H'
48"			---	5'-0"	4'-10"		2'-8"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	40	0.173	0.410	0.583	2.146		
54"	3'-0"	2'-2"	---	5'-7"	5'-4"		2'-3"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	48	0.211	0.448	0.659	2.510		

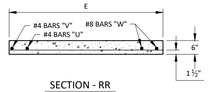


PLAN OF TOP SLAB

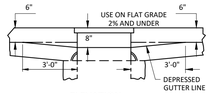


PLAN

CURB AND GUTTER W/ CATCH BASIN ON STEEP GRADE

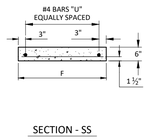


SECTION - RR

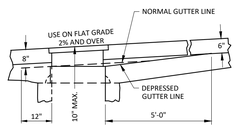


ELEVATION

NORMAL CURB AND GUTTER ON LIGHT GRADE



SECTION - SS



ELEVATION

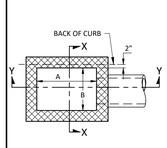
NORMAL CURB AND GUTTER ON STEEP GRADE

STANDARD BRICK CATCH BASIN 15" THROUGH 54" PIPE

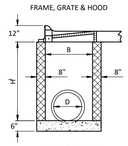
NOT TO SCALE

NOTES:

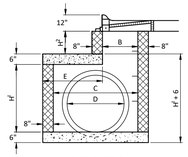
1. MORTAR JOINTS 1/2" ± 1/8" THICK. CLASS "AA" CONCRETE TO BE USED.
2. THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
3. ALL CATCH BASINS OVER 3' 6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1' 2" ON CENTERS.
4. STEPS SHALL BE IN ACCORDANCE WITH STD No. 25.12.
5. CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK. JUMBO BRICK WILL BE PERMITTED.
6. FOR 8' 0" IN HEIGHT OR LESS USE 8" WALL. OVER 8' 0" IN HEIGHT USE 12" WALL TO 6' 0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6' 0".
7. LEAVE WEEP HOLES AS DIRECTED BY THE ENGINEER.



PLAN

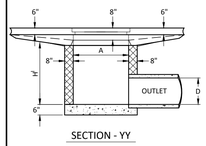


SECTION - XX

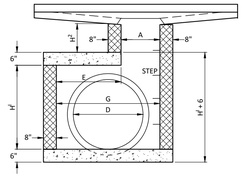


END ELEVATION

WHERE 30" TO 36" PIPE IS USED
SECTION - JJ

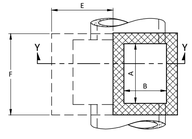


SECTION - YY

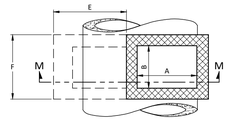


SIDE ELEVATION

WHERE 42" TO 54" PIPE IS USED
SECTION - MM



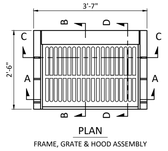
PLAN



PLAN

STANDARD BRICK CATCH BASIN 15" THROUGH 54" PIPE

NOT TO SCALE



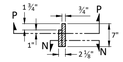
PLAN

FRAME, GRATE & HOOD ASSEMBLY

NOTE:
USE TYPE 'C' GRATE, UNLESS OTHERWISE INDICATED.

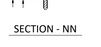
SECTION - BB

SECTION - LL

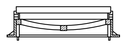


SECTION - MM

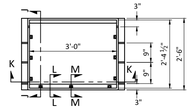
SECTION - PP



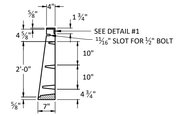
SECTION - NN



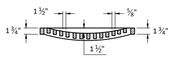
SECTION - AA



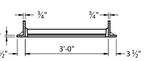
FRAME PLAN



SECTION - JJ

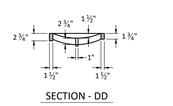


SECTION - CC

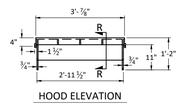


SECTION - KK

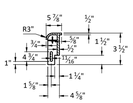
DETAIL #1



SECTION - DD



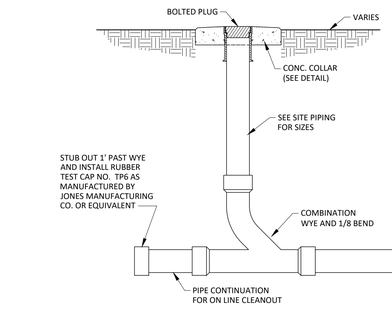
HOOD ELEVATION



SECTION - RR

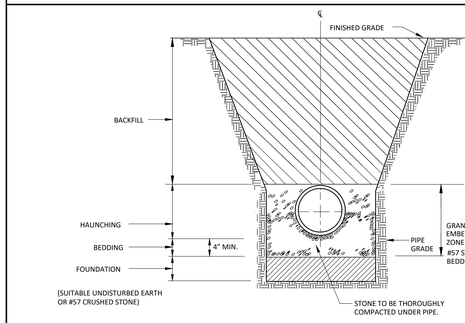
STANDARD FRAME, GRATE AND HOOD FOR USE ON STANDARD CATCH BASIN

NOT TO SCALE



CLEAN-OUT DETAIL

NOT TO SCALE

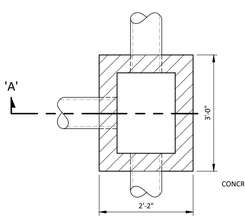


TRENCH SECTION DETAIL FOR THE INSTALLATION OF PVC SANITARY SEWER SERVICE PIPE - SCH 40 DWV

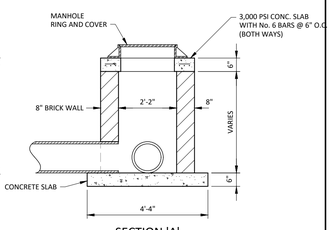
(GUC S-10) NOT TO SCALE

GENERAL

- FORMS TO BE USED FOR CONSTRUCTION OF BOTTOM SLABS
- ALL MORTAR JOINTS TO BE 1/2" PLUS OR MINUS 1/8"
- JUMBO BRICK WILL BE PERMITTED
- JUNCTION BOXES SHALL BE PROVIDED WITH STEPS 1'-2" ON CENTER. STEPS TO BE IN ACCORDANCE WITH CITY OF GREENVILLE STANDARD NUMBER 25.12.



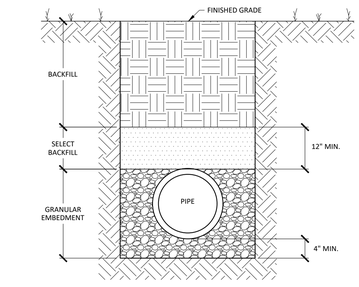
PLAN



SECTION 'A'

JUNCTION BOX

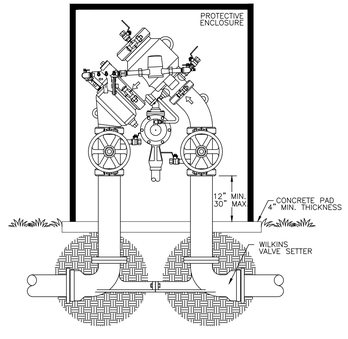
NOT TO SCALE



CLASS 'D'

TRENCH SECTION DETAIL FOR THE INSTALLATION OF PVC GRAVITY STORM DRAIN & SANITARY SEWER PIPING

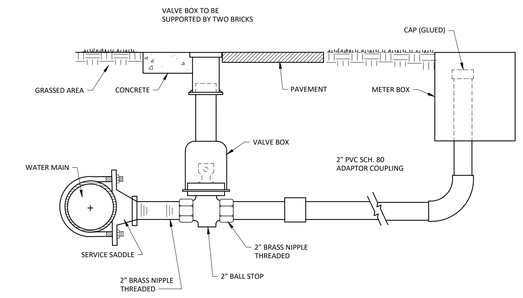
NOT TO SCALE



WILKINS MODEL 475DA

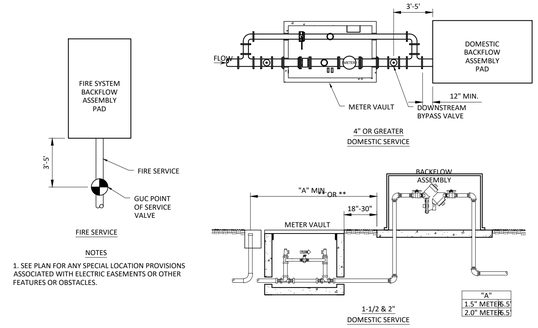
REDUCED PRESSURE DETECTOR ASSEMBLY
OUTDOOR INSTALLATION

REDUCED PRESSURE DETECTOR ASSEMBLY



TYPICAL 1-1/2" AND 2" WATER SERVICE CONNECTION

(GUC W-3) NOT TO SCALE



BACKFLOW ASSEMBLY PLACEMENT

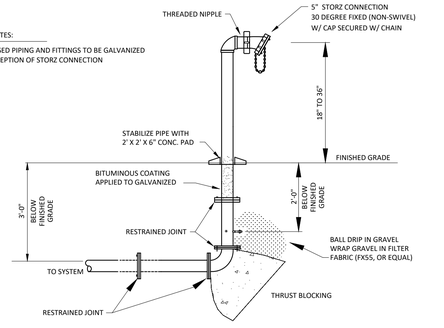
(GUC W-20) NOT TO SCALE

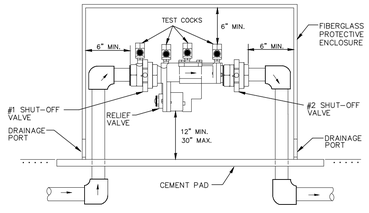
REMOTE FIRE DEPARTMENT CONNECTION WITH 5" STORZ

NOT TO SCALE

TYPICAL NOTES:

1) ALL EXPOSED PIPING AND FITTINGS TO BE GALVANIZED WITH EXCEPTION OF STORZ CONNECTION





TYPICAL INSTALLATION OF AN ABOVE GROUND RP (3/4" TO 2")

NOT TO SCALE

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7/21/2023
ARK CONSULTING GROUP, PLLC
ENGINEERS & PLANNERS
NC License: P-1199

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DRAWN BY: KWJ
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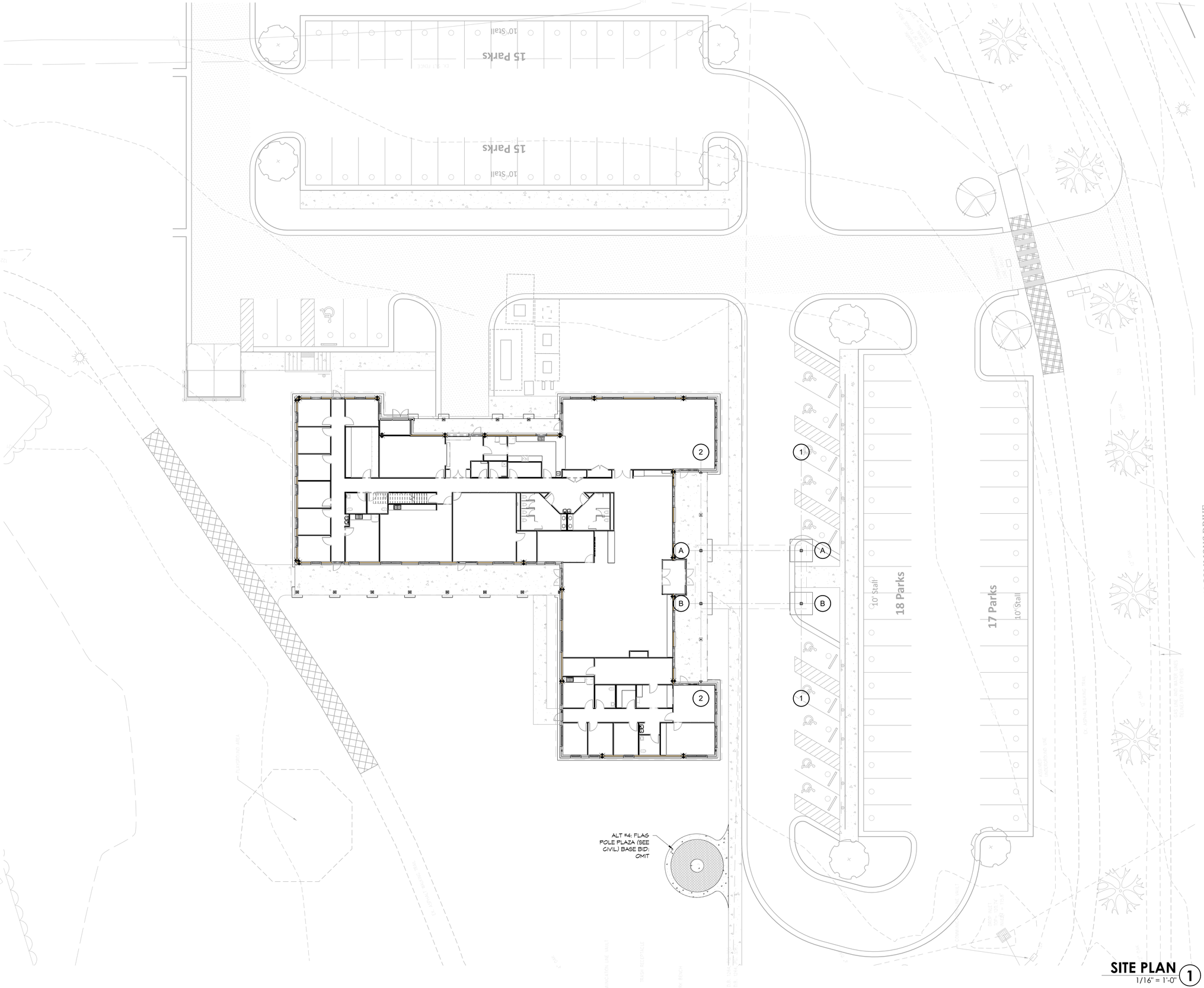
Construction Documents

SHEET NAME & NUMBER

DETAILS

C8.2



SITE PLAN 1
1/16" = 1'-0"

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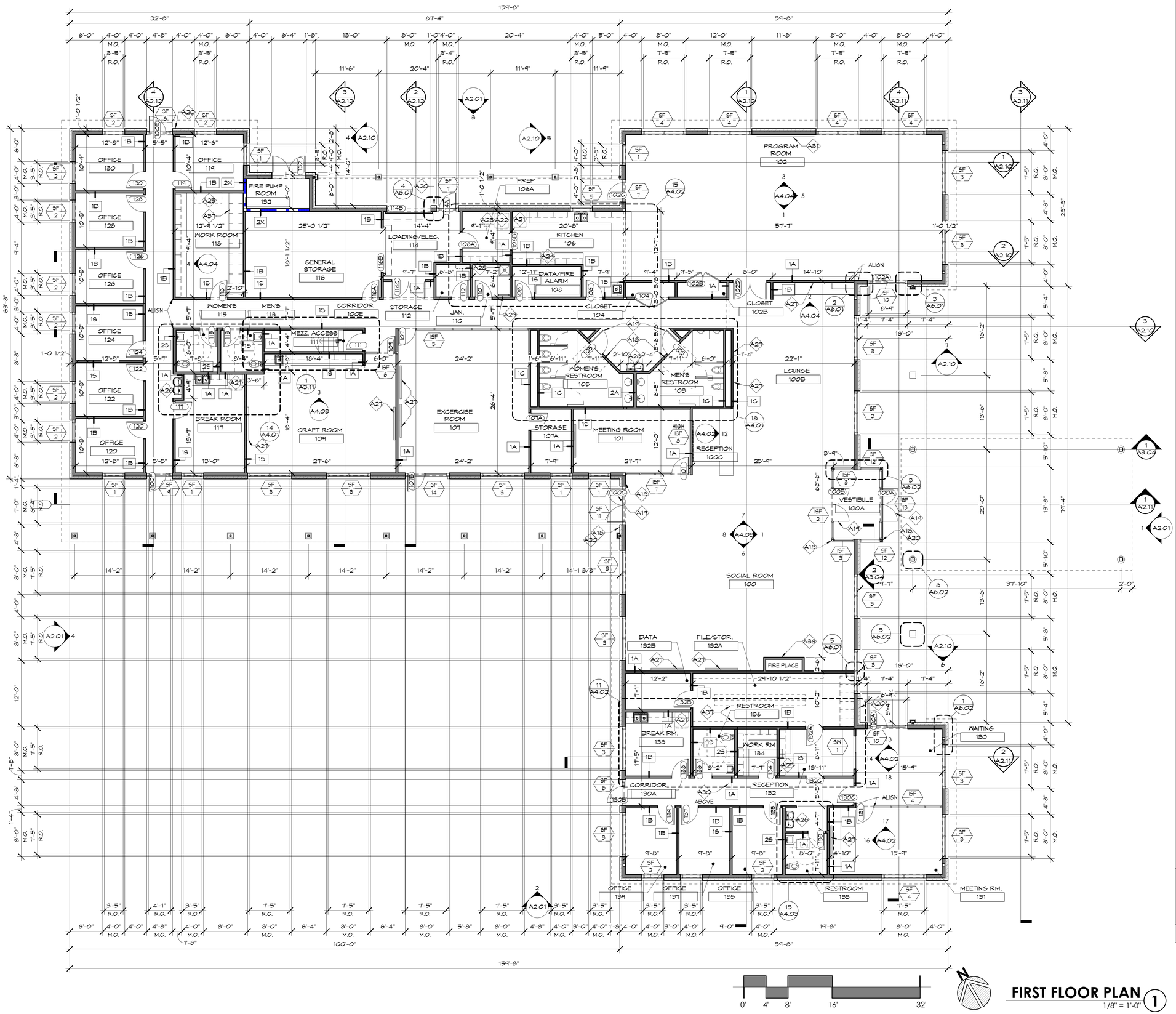
SITE PLAN

A0.01



FIRST FLOOR PLAN
1/8" = 1'-0" (1)

KEY NOTES

A1 - BRICK VENEER EXTERIOR WALL ASSEMBLY, REF. WALL SECTIONS AND DETAILS.

A2 - PAINTED FIBER CEMENT BOARD SIDING, LAP SIDING TYP UNO.

A3 - ALUM. STOREFRONT/GLASS/DOOR AS SCHEDULED

A4 - 1X3 FIBER CEMENT BOARD TRIM AT OPENING JAMBS AND HEAD (TYP.)

A5 - STANDING SEAM METAL ROOF ASSEMBLY, REF. WALL SECTIONS AND DETAILS.

A6 - PREFINISHED ALUM FASCIA, REF. WALL SECTIONS AND DETAILS.

A7 - 8" WIDE BY 6" DEEP PREFINISHED ALUM GUTTERS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A8 - 5" X 5" PREFINISHED ALUM. DOWNSPOUTS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A9 - BRICK ROW LOCK SILL (TYP.)

A10 - PREFABRICATED FIBERGLASS COLUMN WRAP

A11 - FIBER CEMENT TRIM BOARD, REF WALL SECTIONS AND DETAILS.

A12 - FIBER CEMENT BOARD VENTED SOFFIT, REF WALL SECTIONS AND DETAILS.

A13 - HURRICANE-RATED PRE-FINISHED LOUVER WITH BIRD AND INSECT SCREEN.

A14 - PREFABRICATED PREFINISHED ALUM CANOPY. SEE STRUCTURE FOR SUPPORT IN WALL.

A15 - PRE-FINISHED STANDING SEAM METAL ROOF ON BOW TRUSS PORTICO CHARE.

A16 - 12", 35 LETTERS, BACK-PAINTED ACRYLIC BUILDING SIGNAGE, POST-MOUNTED COPY AND FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A17 - INSULATED OVERHEAD COILING DOOR WITH VISION LITES AS SCHEDULED.

A18 - AUTO DOOR OPERATOR PUSH BUTTON, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A19 - AUTO DOOR OPERATOR LEAF, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A20 - CARD READER, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A21 - REFRIGERATOR, O.P.O.I.

A22 - FREEZER, O.P.O.I.

A23 - ICE MAKER, O.P.O.I.

A24 - RANGE/OVEN, O.P.O.I.

A25 - COPY MACHINE, O.P.O.I.

A26 - HIGH/LOW WATER FOUNTAIN WITH BOTTLE FILLER

A27 - TV MONITOR, O.P.O.I, SEE ELECTRICAL DRAWINGS.

A28 - MOP SINK WITH MOP HOOK WITH SHELF ABOVE AT 48" A.F.F.

A29 - VERTICAL ACCESS LADDER TO MEZZANINE ABOVE. PROVIDE INTEGRAL LOOPING HANDRAIL EXTENSION FOR SAFE ACCESS ON AND OFF LADDER.

A30 - PULL-DOWN SHIPS LADDER TO ACCESS MEZZANINE.

A31 - RECESSED PROJECTION SCREEN

A32 - CEILING-MOUNTED PROJECTOR, O.P.O.I.

A33 - MECHANICAL UNIT, REF MECH DRAWINGS

A34 - MASONRY EXPANSION JOINT

A35 - PRE-FINISHED ALUM. ROOF TO WALL FLASHING, RUN UP WALL MIN. 8"

A36 - ELECTRIC FIRE PLACE - REF INTERIOR ELEVATIONS. FIRE PLACE, FRAMED SURROUND, AND FINISH TRIM WORK ON FIRE PLACE SURROUND SHALL BE INCLUDED IN ALT #3. BASE BID SHALL OMIT THESE ITMES.

A37 - MOBILE FILING CABINETS/SHELVING (O.P.O.I.).

A38 - 1 1/2" PAINTED STEEL PIPE SAFETY RAILS AT MEZZANINE/PLATFORM EDGE. POSTS SPACED EVENLY NO MORE THAN 4'-0" O.C. BOTTOM HORIZ. RAIL AT 4" A.F.F., MIDDLE HORIZ. RAIL AT 21" A.F.F., TOP HORIZONTAL RAIL AT 42" A.F.F.

A39 - WATER HEATER REF. MECH DRAWINGS.

A40 - PROVIDE 3", 14 LETTERS, FROSTED SIGNAGE ON GLAZING FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A41 - PROVIDE 1" DIFFERENT FROSTED SIGNAGE ON GLAZING FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION. DETAILS, FRAME MATERIAL TO MATCH ALL OTHER STOREFRONT SPECIFIED UNO.

GENERAL NOTES

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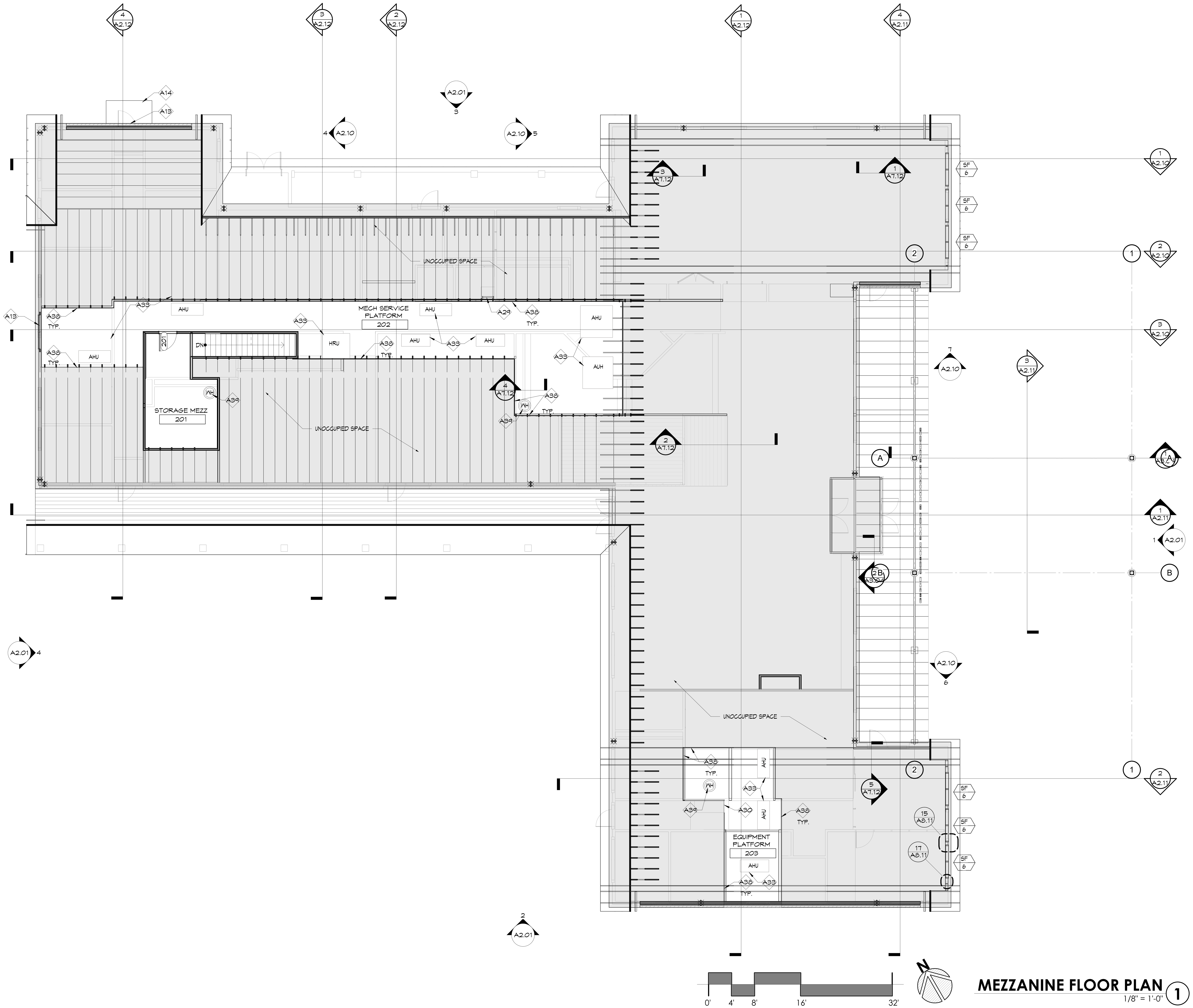
SHEET NAME & NUMBER
FIRST FLOOR PLAN

A1.01



MEZZANINE FLOOR PLAN 1
1/8" = 1'-0"

KEY NOTES

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A33 - MECHANICAL UNIT, REF MECH DRAWINGS

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53628

ALBRECHT M. HAWTHORN
11208
07/21/23

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#	DESC:	DATE

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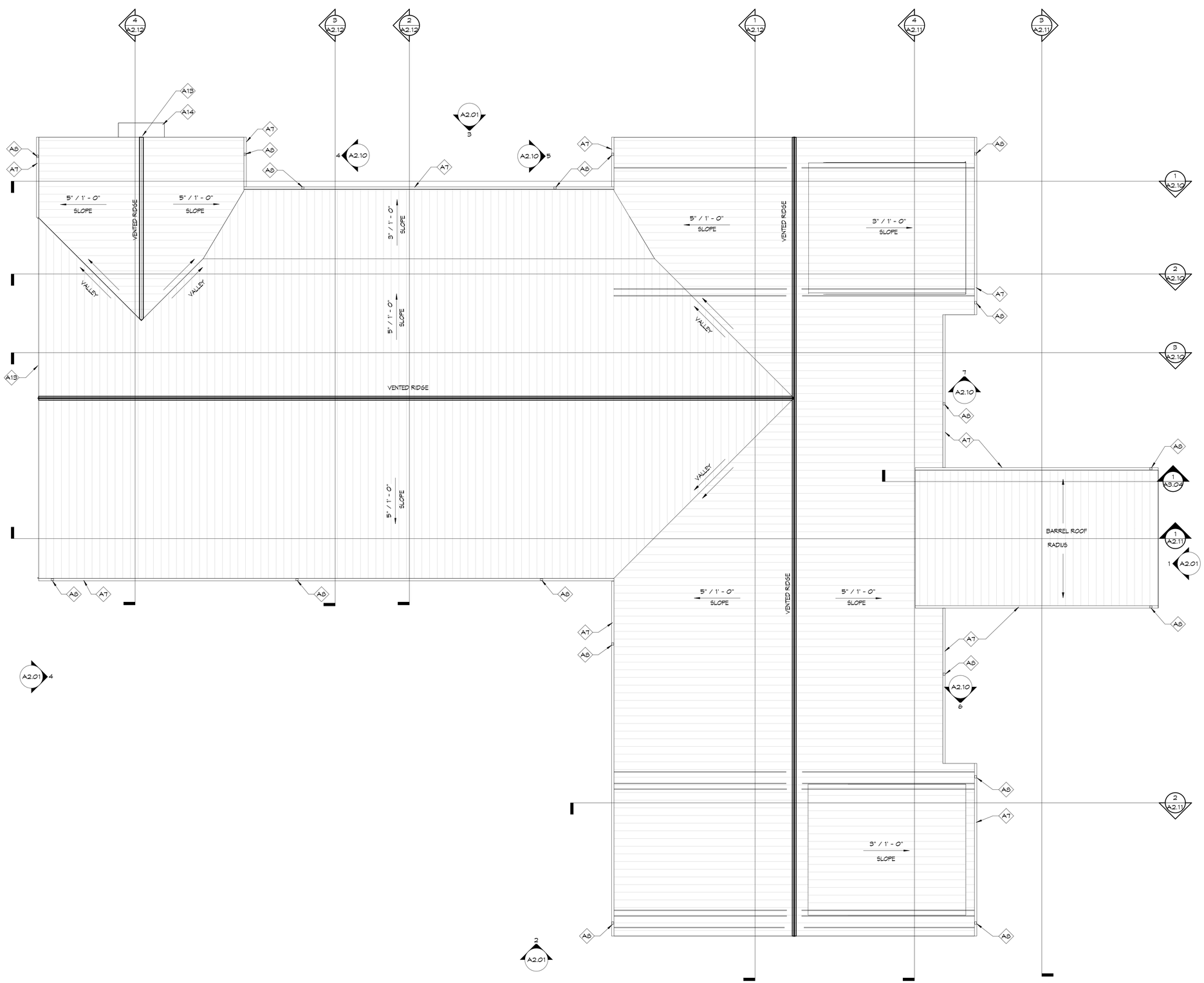
MEZZANINE FLOOR PLAN

A1.02



ROOF PLAN
1/8" = 1'-0" (1)

0' 4' 8' 16' 32'

KEY NOTES

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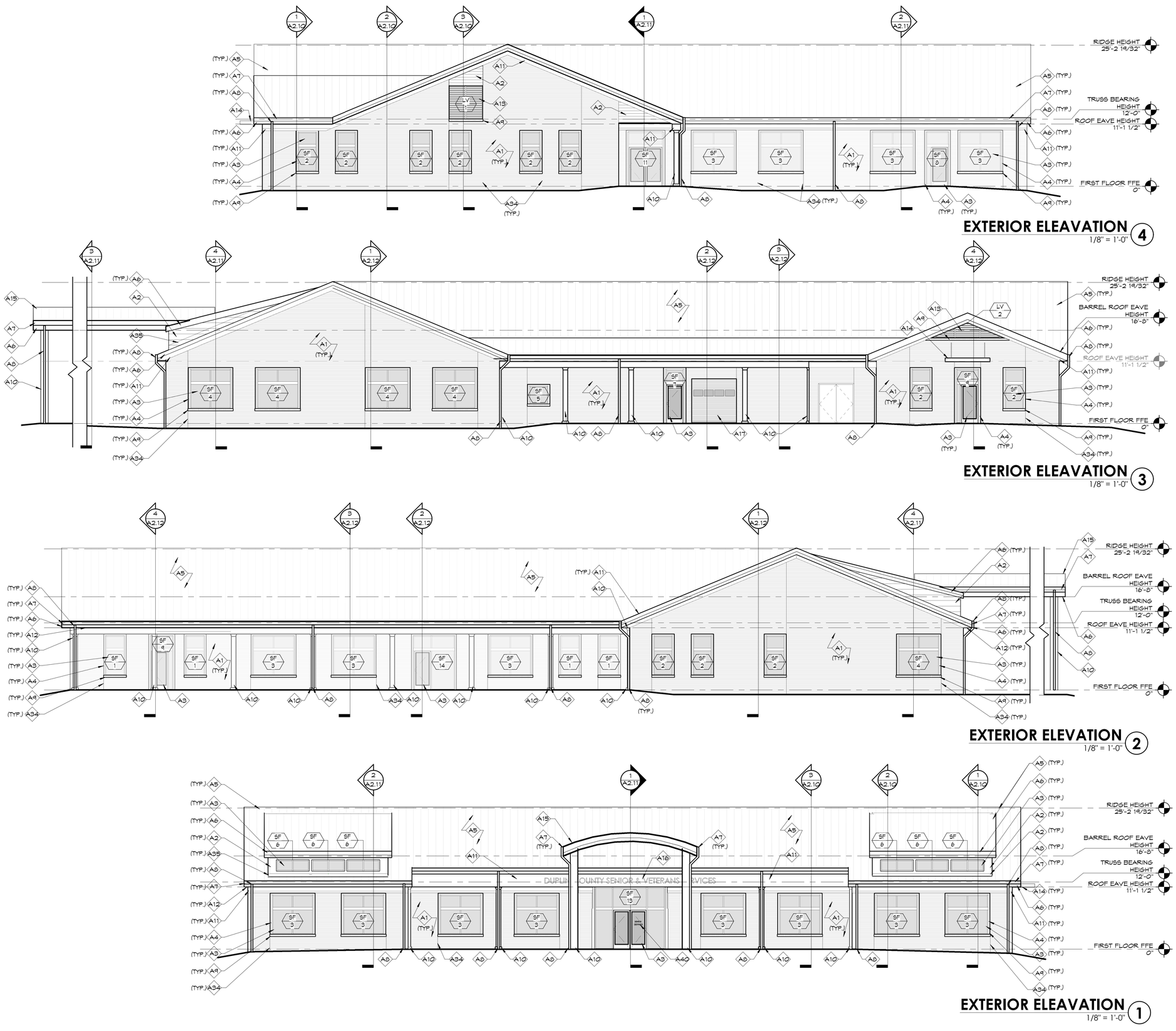
ROOF PLAN

A1.03



EXTERIOR ELEAVATION 4 — 1/8" = 1'-0"

EXTERIOR ELEAVATION 3 — 1/8" = 1'-0"

EXTERIOR ELEVATION 2 — 1/8" = 1'-0"

EXTERIOR ELEAVATION 1 — 1/8" = 1'-0"

KEY NOTES

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07/21/23

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#	DESC:	DATE

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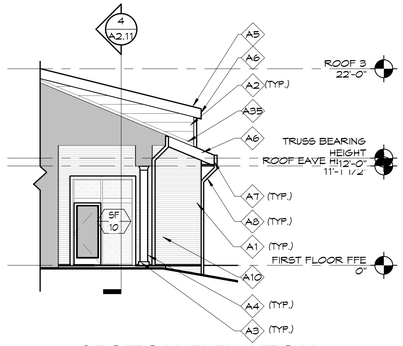
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

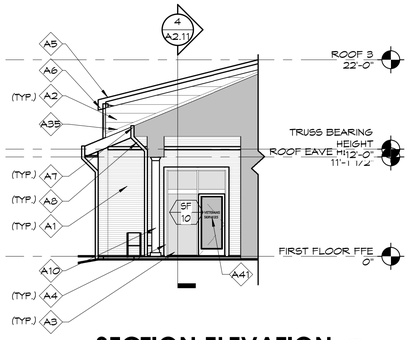
EXTERIOR ELEVATION

A2.01



SECTION ELEVATION 7

1/8" = 1'-0"



SECTION ELEVATION 6

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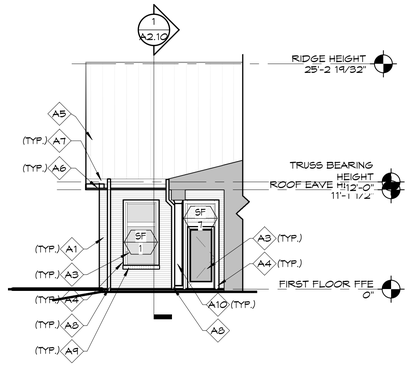
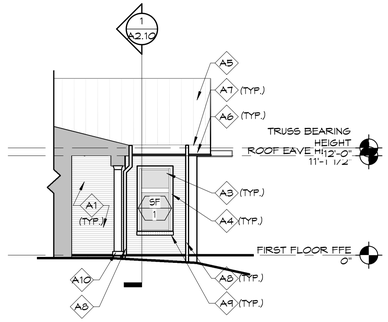


SECTION ELEVATION 5

1/8" = 1'-0"



SECTION ELEVATION 4

1/8" = 1'-0"

BUILDING SECTION 3

1/8" = 1'-0"

BUILDING SECTION 2

1/8" = 1'-0"

BUILDING SECTION 1

1/8" = 1'-0"

KEY NOTES

A1 - BRICK VENEER EXTERIOR WALL ASSEMBLY. REF. WALL SECTIONS AND DETAILS.

A2 - PAINTED FIBER CEMENT BOARD SIDING, LAP SIDING TYP UNO.

A3 - ALUM. STOREFRONT/GLASS/DOOR AS SCHEDULED

A4 - 1X3 FIBER CEMENT BOARD TRIM AT OPENING JAMBS AND HEAD (TYP.)

A5 - STANDING SEAM METAL ROOF ASSEMBLY. REF. WALL SECTIONS AND DETAILS.

A6 - PREFINISHED ALUM FASCIA, REF. WALL SECTIONS AND DETAILS.

A7 - 8" WIDE BY 4" DEEP PREFINISHED ALUM GUTTERS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A8 - 5" X 5" PREFINISHED ALUM. DOWNSPOUTS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A9 - BRICK ROW LOCK SILL (TYP.)

A10 - PREFABRICATED FIBERGLASS COLUMN WRAP

A11 - FIBER CEMENT TRIM BOARD, REF WALL SECTIONS AND DETAILS.

A12 - FIBER CEMENT BOARD VENTED SOFFIT, REF WALL SECTIONS AND DETAILS.

A13 - HURRICANE-RATED PRE-FINISHED LOUVER WITH BIRD AND INSECT SCREEN.

A14 - PREFABRICATED PREFINISHED ALUM CANOPY. SEE STRUCTURE FOR SUPPORT IN WALL.

A15 - PRE-FINISHED STANDING SEAM METAL ROOF ON BOW TRUSS PORTICO CHARE.

A16 - 12", 35 LETTERS, BACK-PAINTED ACRYLIC BUILDING SIGNAGE, POST-MOUNTED COPY AND FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A17 - INSULATED OVERHEAD COILING DOOR WITH VISION LITES AS SCHEDULED.

A18 - AUTO DOOR OPERATOR PUSH BUTTON, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A19 - AUTO DOOR OPERATOR LEAF, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A20 - CARD READER, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A21 - REFRIGERATOR, O.P.O.I.

A22 - FREEZER, O.P.O.I.

A23 - ICE MAKER, O.P.O.I.

A24 - RANGE/OVEN, O.P.O.I.

A25 - COPY MACHINE, O.P.O.I.

A26 - HIGH/LOW WATER FOUNTAIN WITH BOTTLE FILLER

A27 - TV MONITOR, O.P.O.I. SEE ELECTRICAL DRAWINGS.

A28 - MOP SINK WITH MOP HOOK WITH SHELF ABOVE AT 48" A.F.F.

A29 - VERTICAL ACCESS LADDER TO MEZZANINE ABOVE. PROVIDE INTEGRAL LOOPING HANDRAIL EXTENSION FOR SAFE ACCESS ON AND OFF LADDER.

A30 - PULL-DOWN SHIPS LADDER TO ACCESS MEZZANINE.

A31 - RECESSED PROJECTION SCREEN

A32 - CEILING-MOUNTED PROJECTOR, O.P.O.I.

A33 - MECHANICAL UNIT, REF MECH DRAWINGS

A34 - MASONRY EXPANSION JOINT

A35 - PRE-FINISHED ALUM. ROOF TO WALL FLASHING, RUN UP WALL MIN. 8"

A36 - ELECTRIC FIRE PLACE - REF INTERIOR ELEVATIONS. FIRE PLACE, FRAMED SURROUND, AND FINISH TRIM WORK ON FIRE PLACE SURROUND SHALL BE INCLUDED IN ALT #3. BASE BID SHALL OMIT THESE ITMES.

A37 - MOBILE FILING CABINETS/SHELVING (O.P.O.I.).

A38 - 1 1/2" PAINTED STEEL PIPE SAFETY RAILS AT MEZZANINE/PLATFORM EDGE. POSTS SPACED EVENLY NO MORE THAN 4'-0" O.C. BOTTOM HORIZ. RAIL AT 4" A.F.F., MIDDLE HORIZ. RAIL AT 21" A.F.F., TOP HORIZONTAL RAIL AT 42" A.F.F.

A39 - WATER HEATER REF. MECH DRAWINGS.

A40 - PROVIDE 3", 14 LETTERS, FROSTED SIGNAGE ON GLAZING. FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A41 - PROVIDE 3", 16 LETTERS, FROSTED SIGNAGE ON GLAZING. FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

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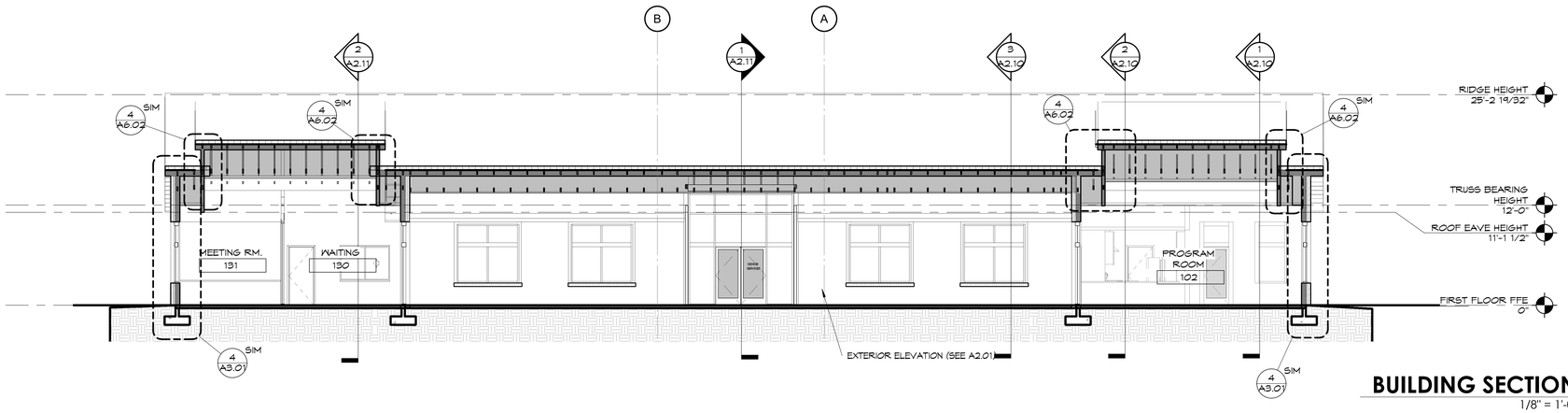
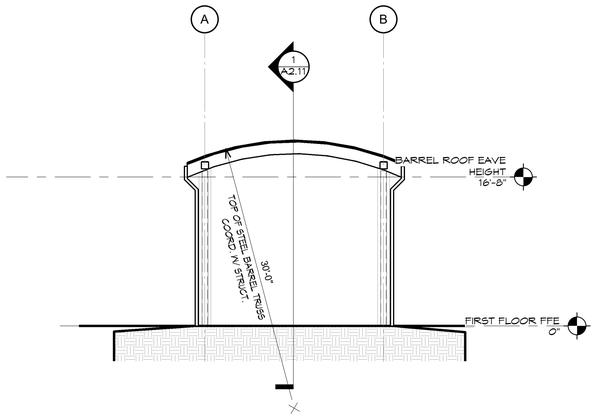
BUILDING SECTIONS

A2.10



BUILDING SECTION 4
1/8" = 1'-0"



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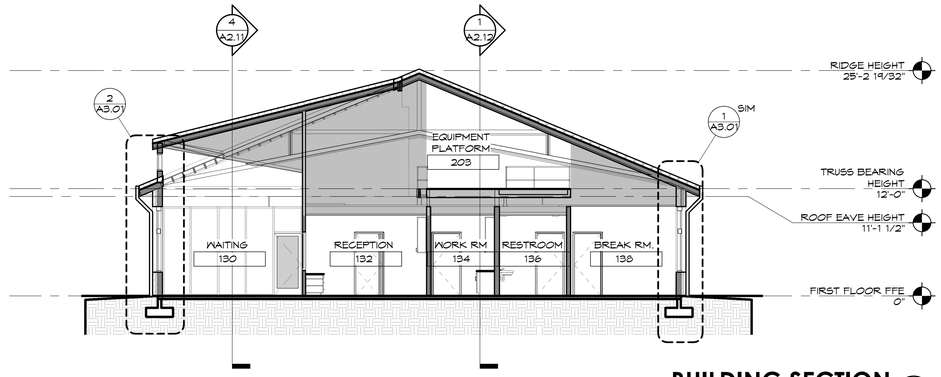

BUILDING SECTION 2
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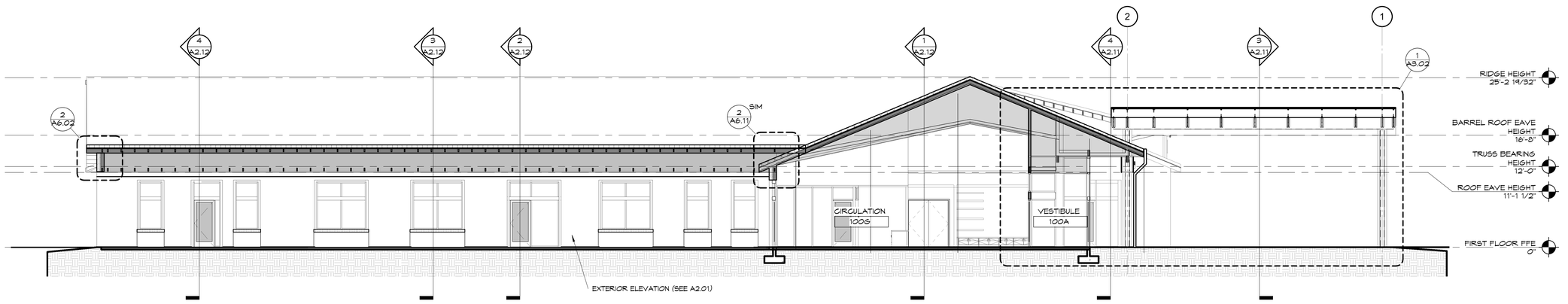

BUILDING SECTION 1
1/8" = 1'-0"

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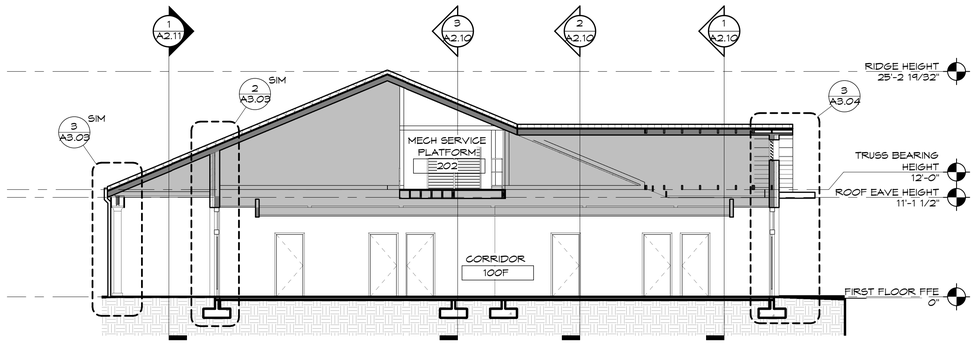
A2.11



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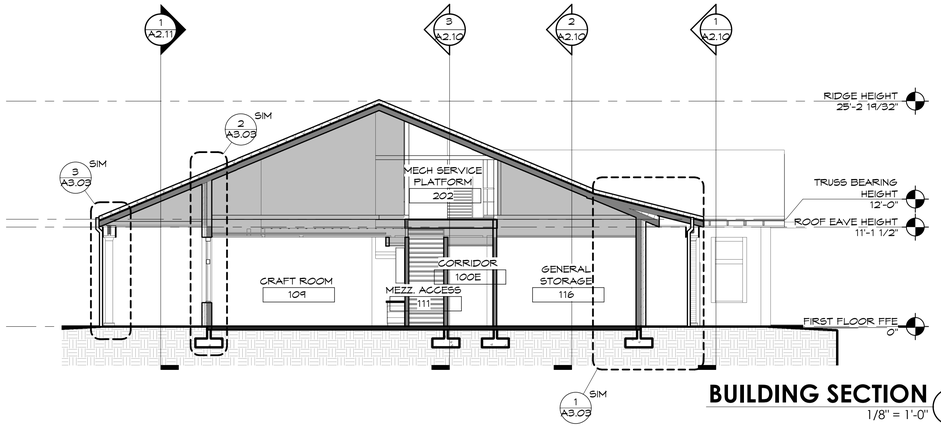
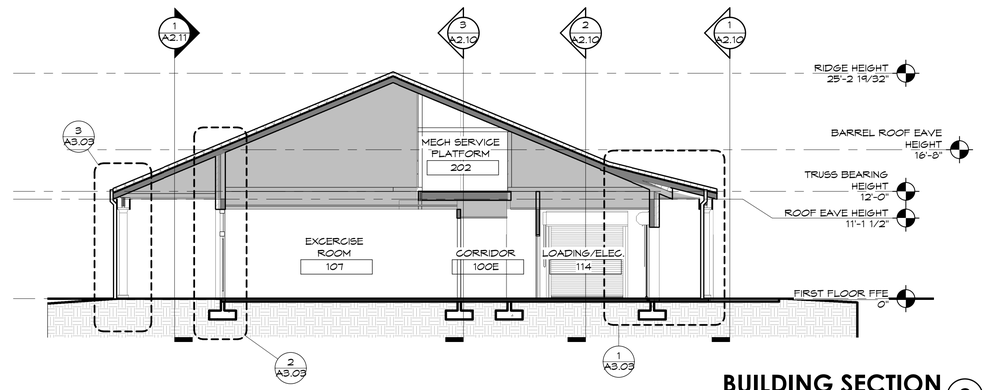
1/8" = 1'-0"



BUILDING SECTION 3
1/8" = 1'-0"



BUILDING SECTION 2
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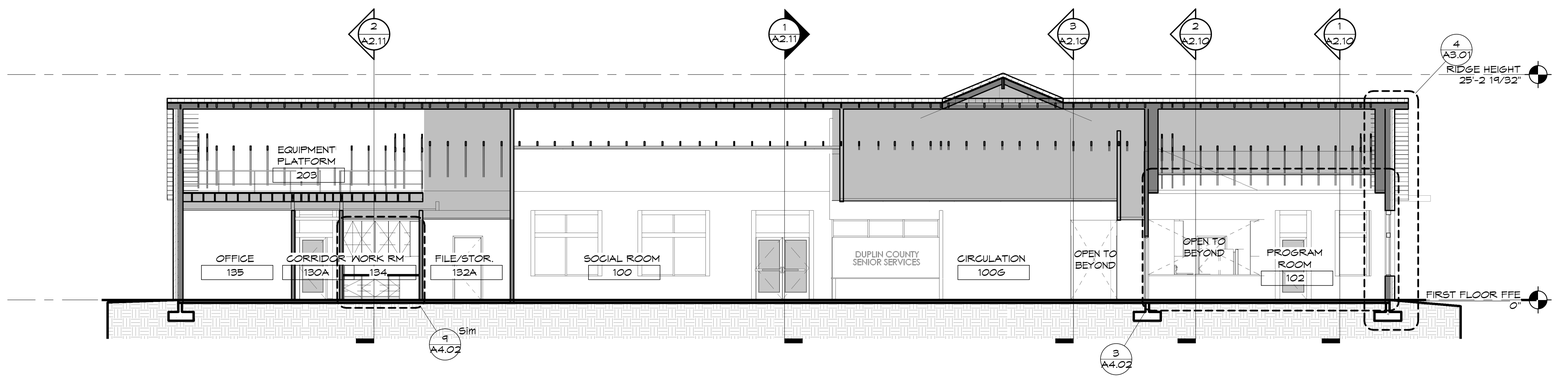

BUILDING SECTION 1
1/8" = 1'-0"

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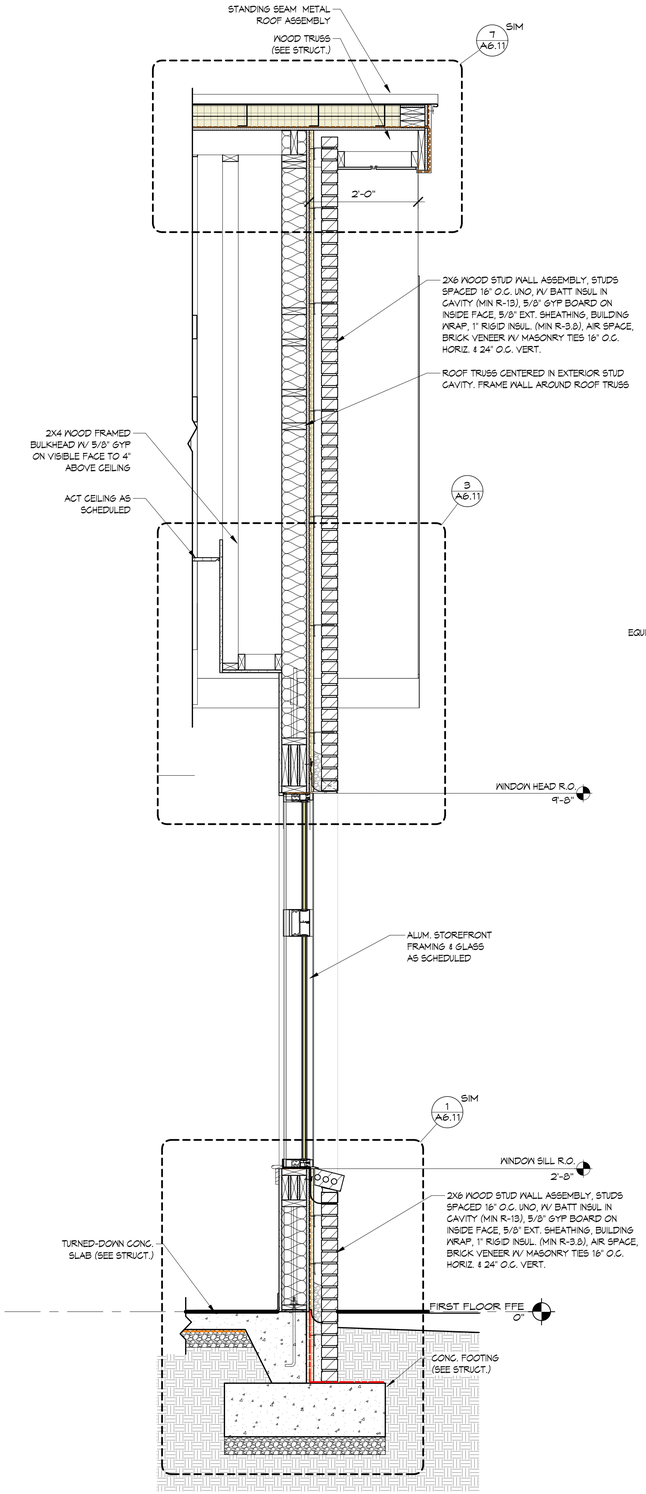
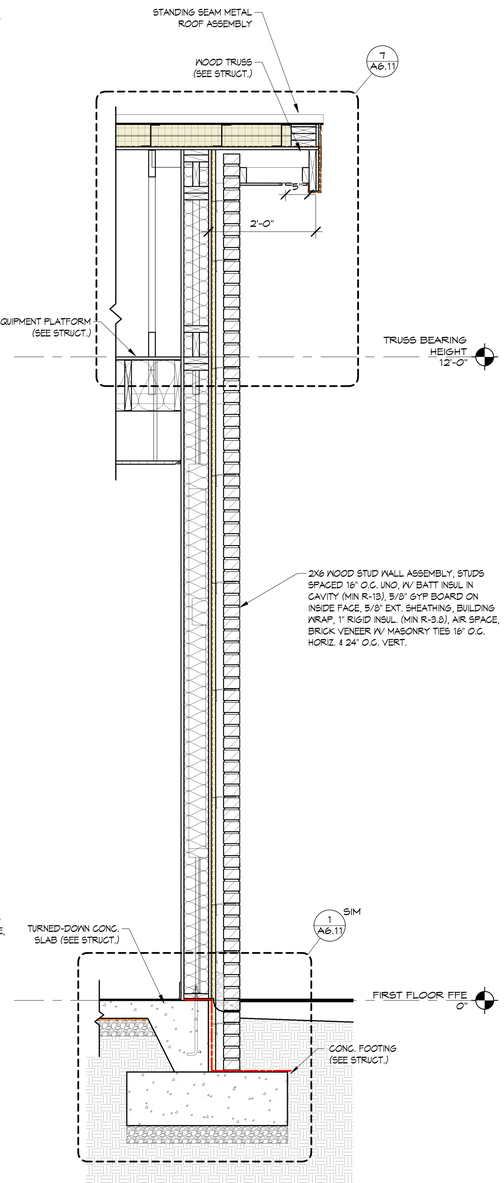
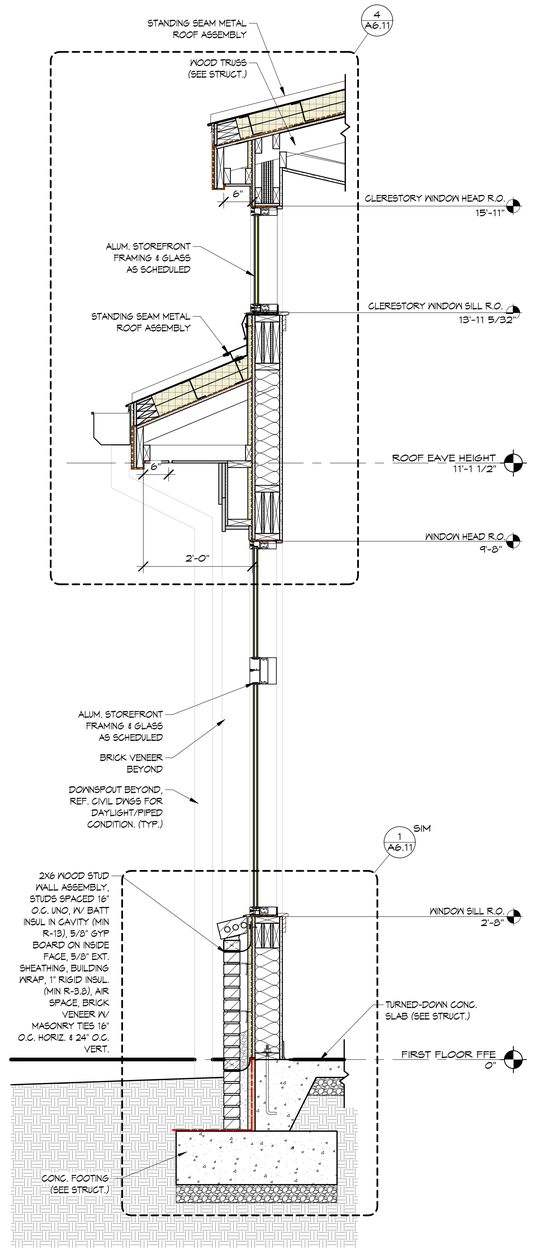
A2.12



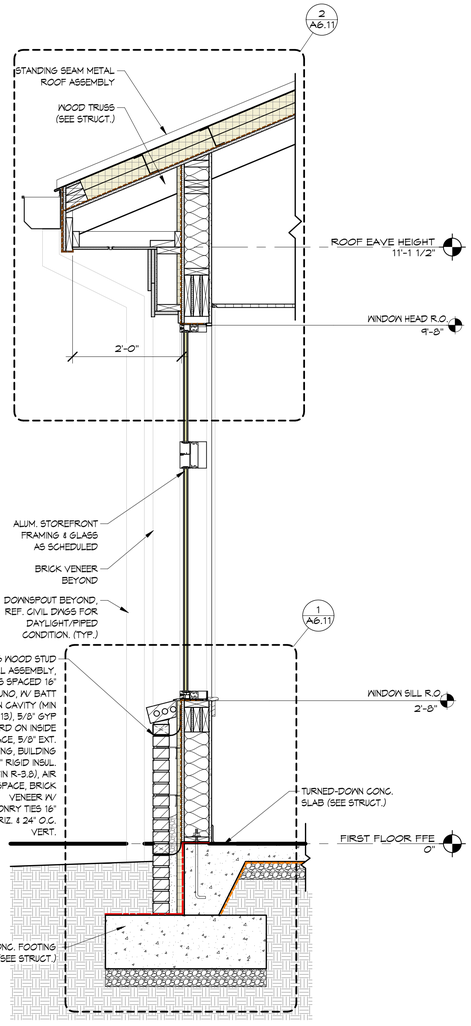
WALL SECTION 4
3/4" = 1'-0"



WALL SECTION 3
3/4" = 1'-0"



WALL SECTION 2
3/4" = 1'-0"



TYP. WALL SECTION 1
3/4" = 1'-0"

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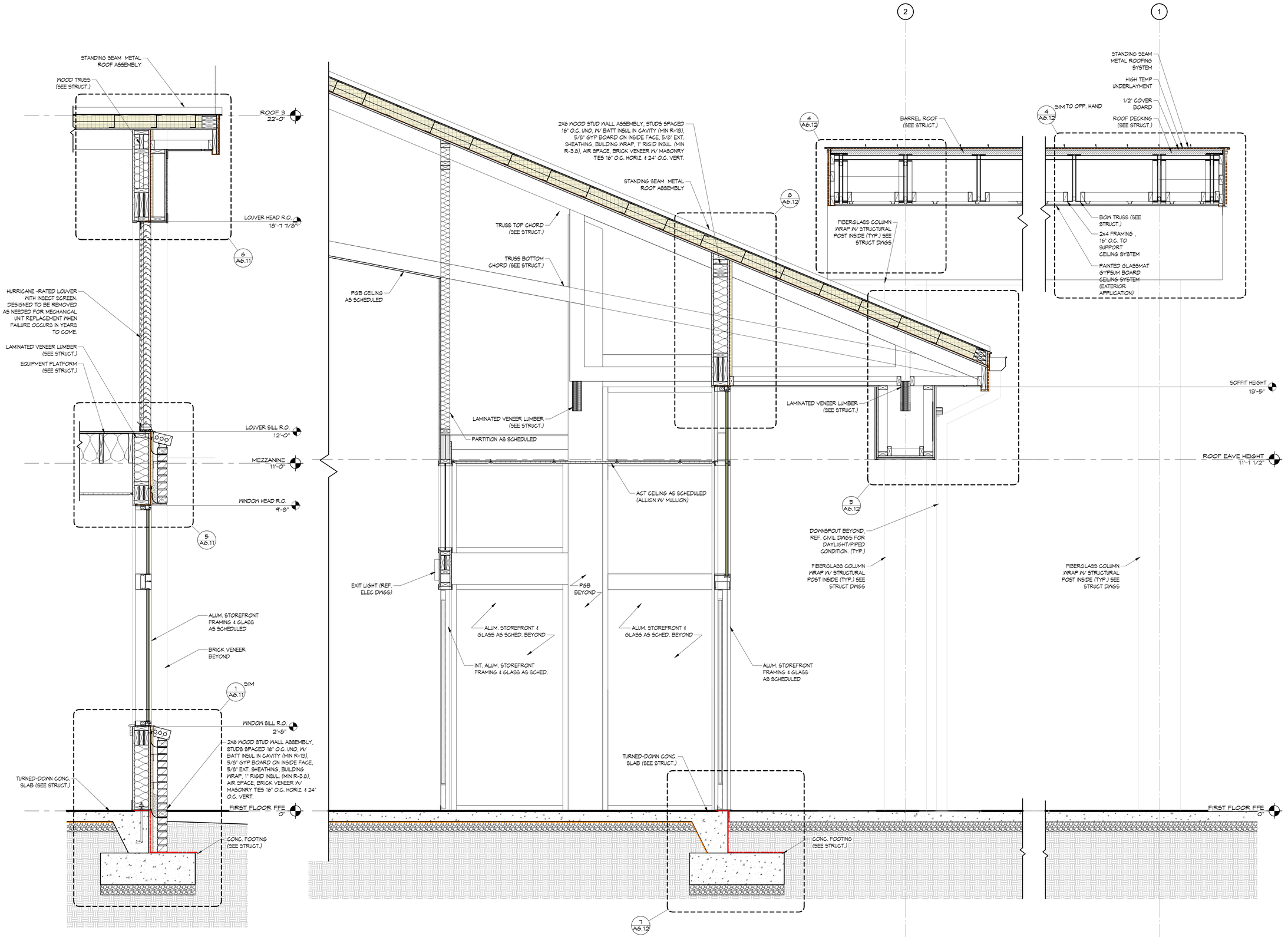
WALL SECTIONS

A3.01



WALL DETAIL 2
3/4" = 1'-0"

WALL SECTION 1
3/4" = 1'-0"

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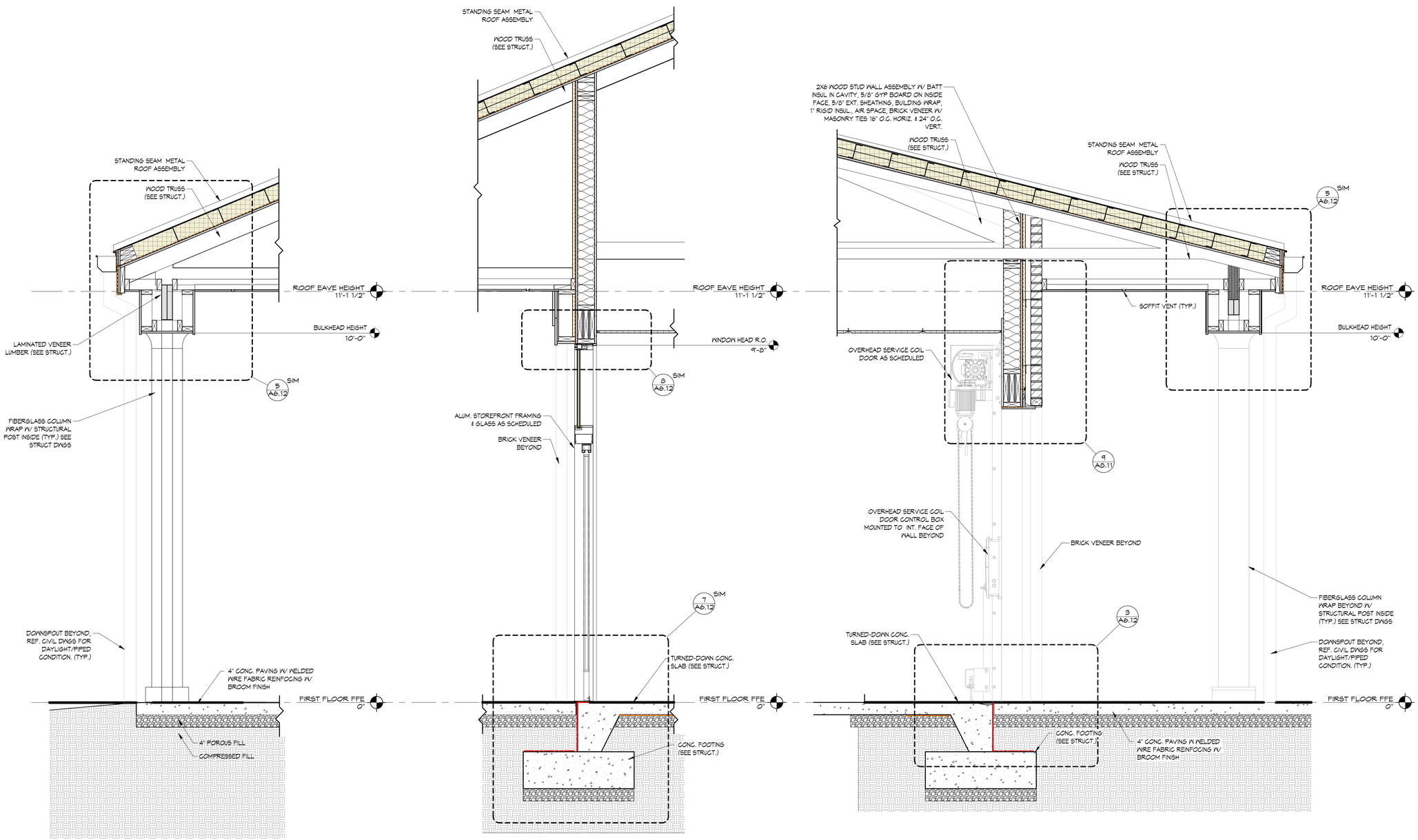
SHEET NAME & NUMBER
WALL SECTIONS

A3.02



WALL SECTION 3 — 3/4" = 1'-0"

WALL SECTION 2 — 3/4" = 1'-0"

WALL SECTION 1 — 3/4" = 1'-0"

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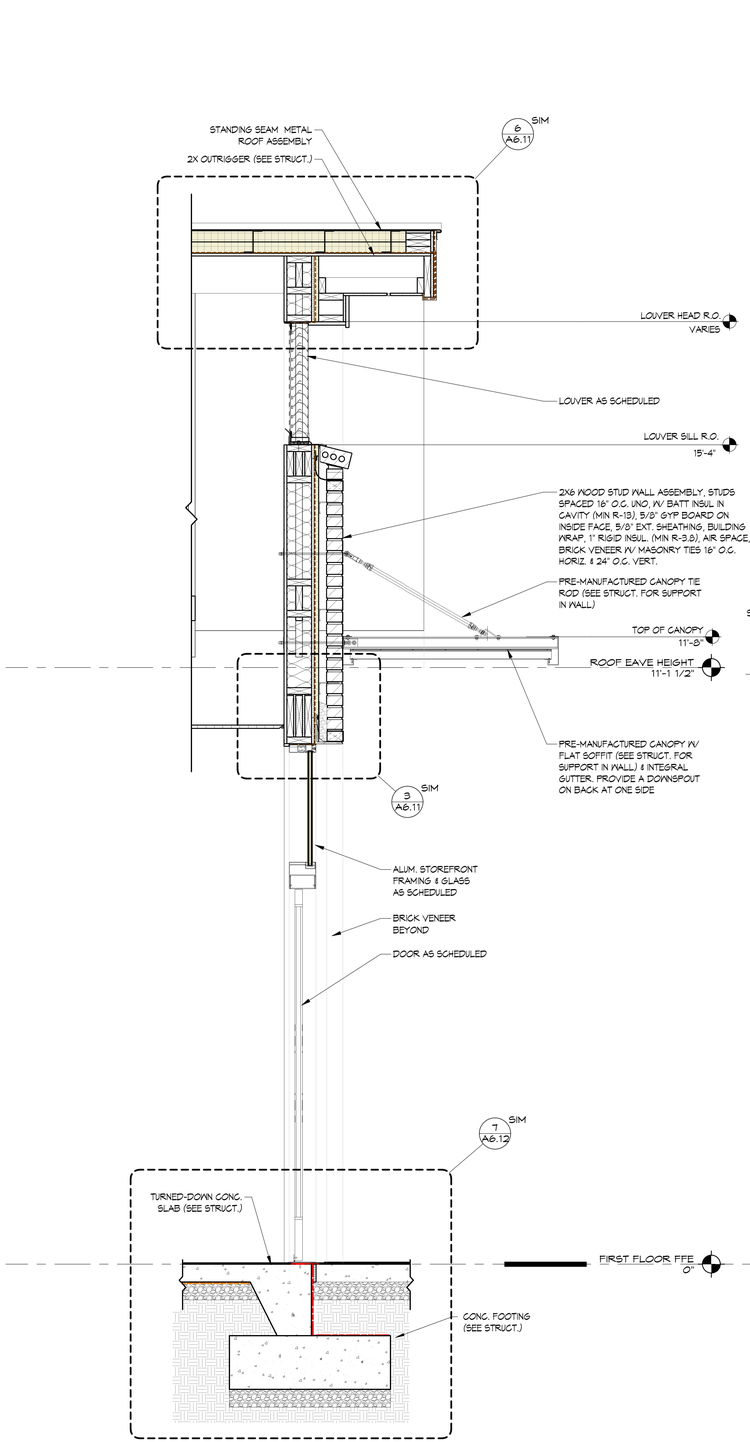
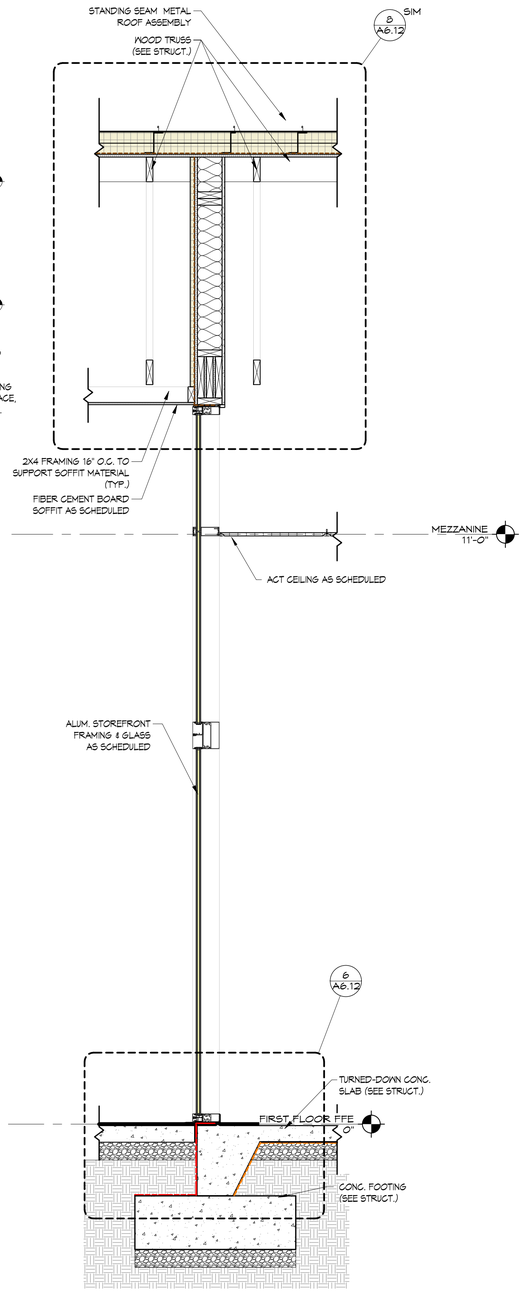
WALL SECTIONS

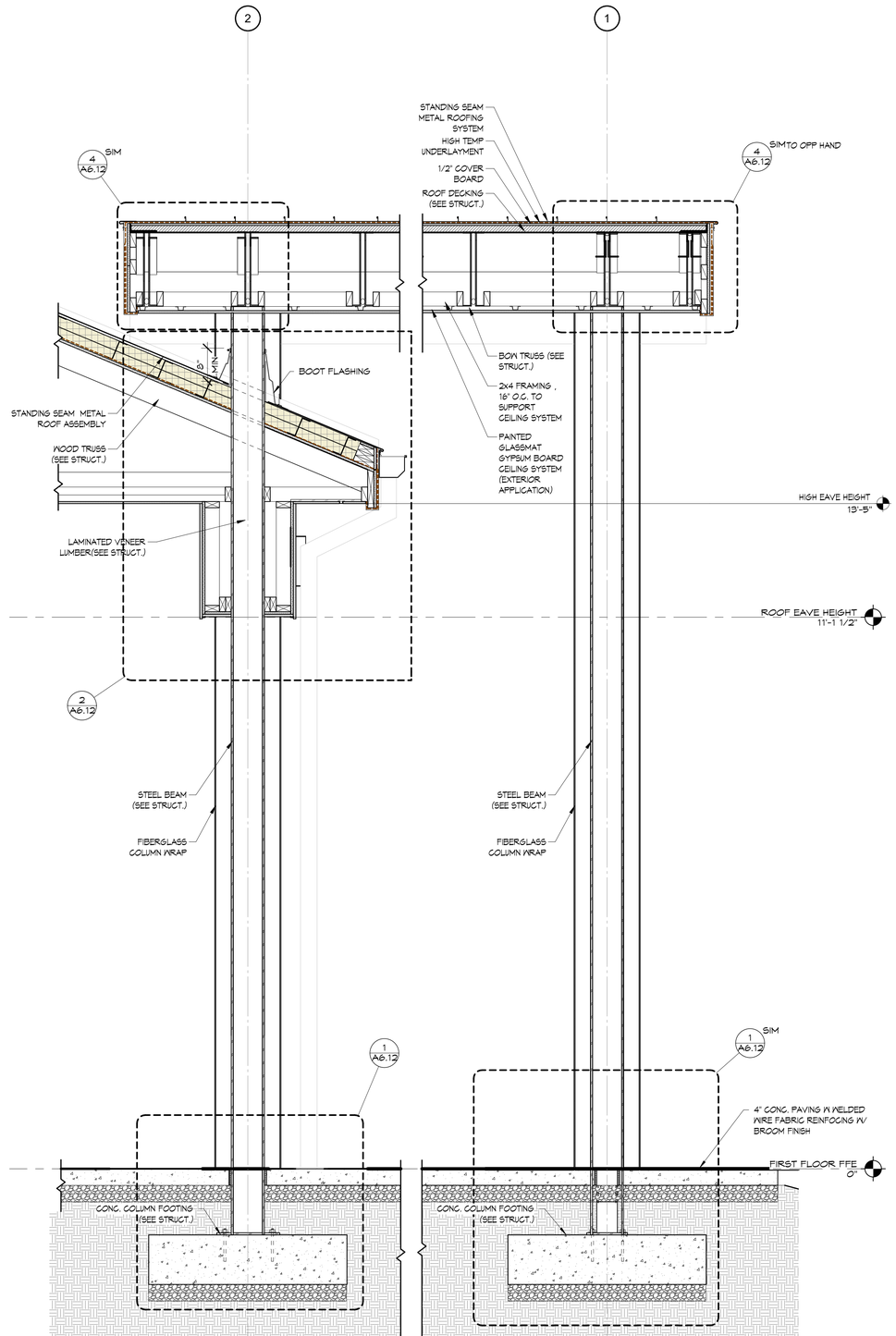
A3.03



WALL SECTION 3
3/4" = 1'-0"



WALL SECTION 2
3/4" = 1'-0"



WALL SECTION 1
3/4" = 1'-0"

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SHEET NAME & NUMBER
WALL SECTIONS

A3.04

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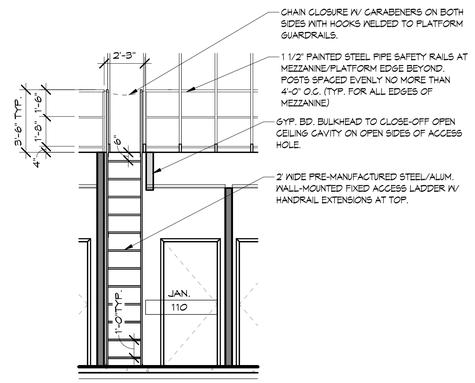
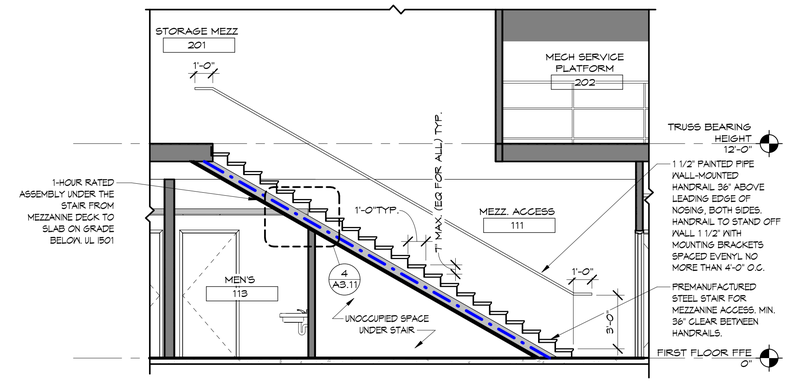
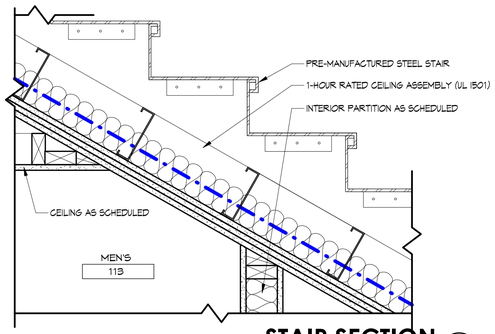


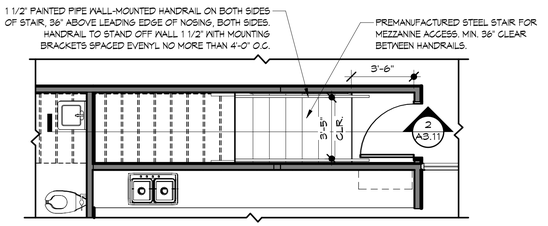
VERTICAL ACCES LADDER ELEVATION 3
1/4" = 1'-0"



STAIR SECTION 2
1/4" = 1'-0"



STAIR SECTION 4
1 1/2" = 1'-0"



ENLARGED PLAN 1
1/4" = 1'-0"

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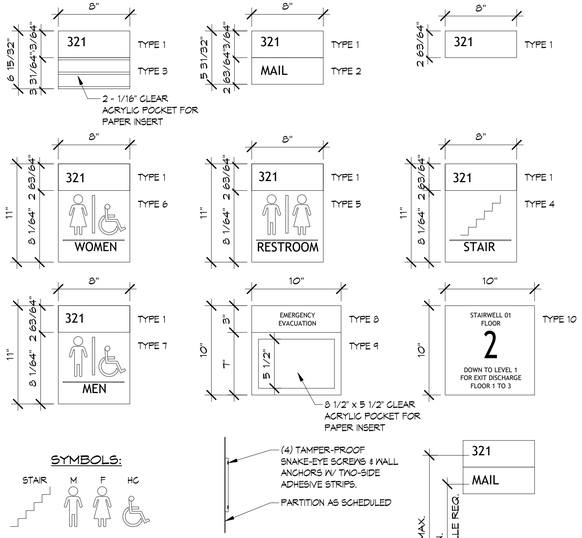
STAIR AND ACCESS LADDER PLANS, SECTIONS, & DETAILS

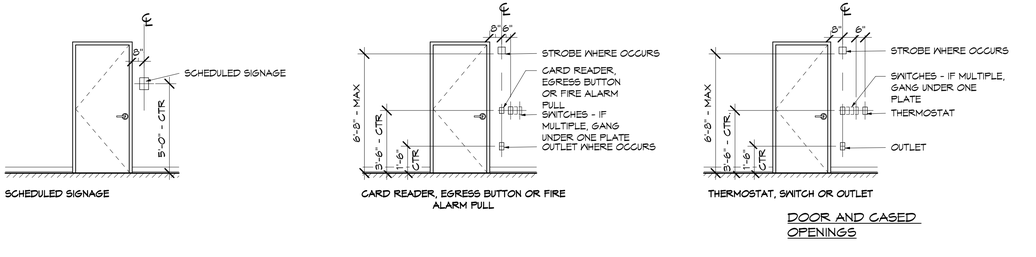
A3.11

GENERAL SIGN NOTES:

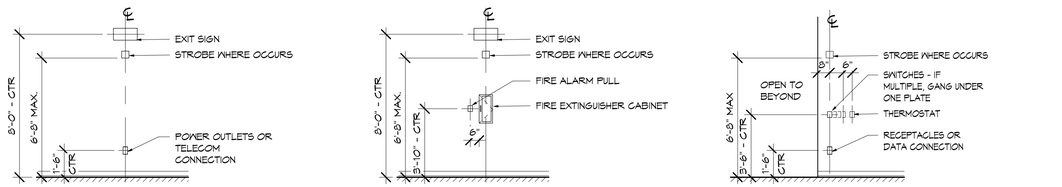
1. PROVIDE 2 SIGNS PER OPENING THROUGHOUT THE BUILDING, IF SIGN LOCATION IS ON GLASS, PROVIDE BACK PANEL ON OPPOSITE SIDE OF GLASS TO CONCEAL ATTACHMENT.
2. ALL SIGNS TYPES SHALL HAVE ADA COMPLIANT BRAIL TO ACCOMPANY SYMBOLS AND LETTERING.
3. ALL SIGN COPY SHALL MATCH ROOM NAME AS SHOWN ON THE FLOOR PLANS. G.C. RESPONSIBLE FOR SIGN SCHEDULE SUBMITTAL. ALL SIGN COPY SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ARCHITECT PRIOR TO FABRICATION.
4. ALL RESTROOMS SHALL USE SIGN TYPES 5, 6, OR 7 AS APPROPRIATE IN ADDITION TO TYPE 1 AS INDICATED IN THE ADJACENT DRAWING.
5. ALL DOORS INTO STAIRS SHALL USE SIGN TYPE 4 IN ADDITION TO TYPE 1 AS INDICATED IN THE ADJACENT DRAWING, INSIDE AND OUTSIDE STAIRS.
6. ALL DOORS IN STAIRS SHALL HAVE SIGN TYPE 10 AT EACH LANDING BY THE DOOR.

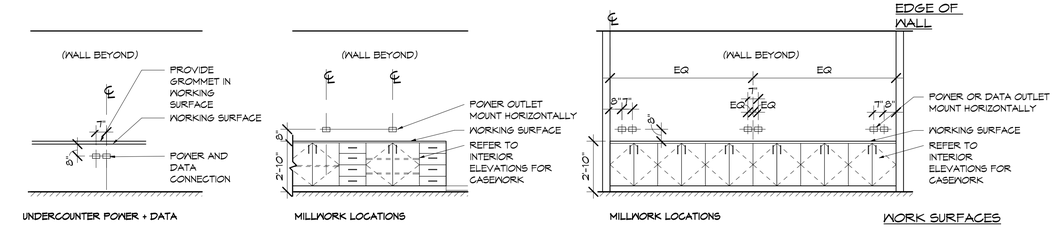


SIGN TYPES 6
1 1/2" = 1'-0"

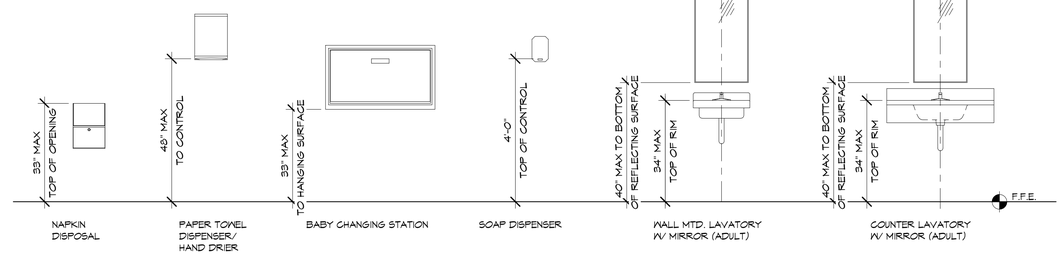


DOOR AND CASED OPENINGS

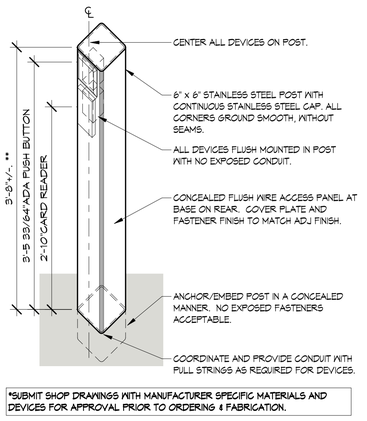




TYP. MOUNTING HEIGHTS & CLEARANCES 7
1/4" = 1'-0"

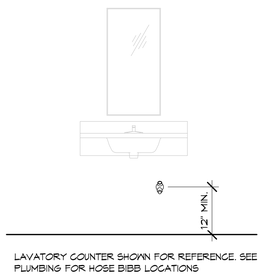


TYP. MOUNTING FIXTURE & ACCESSORY MOUNTING HEIGHTS & CLEARANCES 4
1/2" = 1'-0"

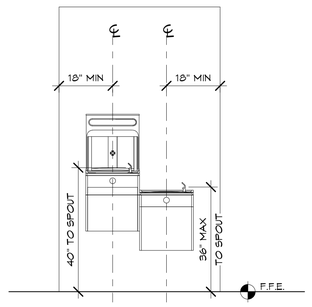


*SUBMIT SHOP DRAWINGS WITH MANUFACTURER SPECIFIC MATERIALS AND DEVICES FOR APPROVAL PRIOR TO ORDERING & FABRICATION.

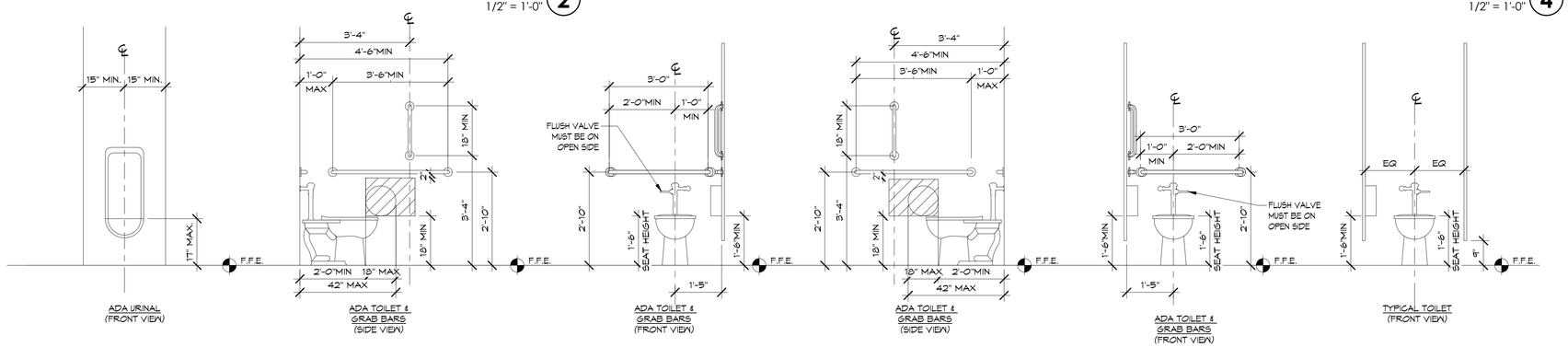
ACCESSIBLE ENTRY POST 5
1" = 1'-0"



TYP. HOSE BIBB MOUNTING HEIGHT 3
1/2" = 1'-0"



TYP. DRINKING FOUNTAIN MOUNTING HEIGHTS & CLEARANCES 2
1/2" = 1'-0"



TYP. RESTROOM FIXTURE & ACCESSORY MOUNTING HEIGHTS AND CLEARANCES 1
1/2" = 1'-0"

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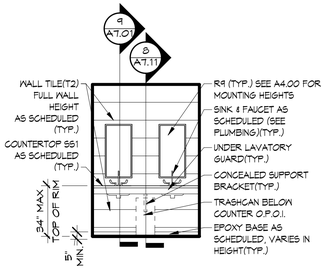
SHEET NAME & NUMBER
ADA TYP. MOUNTING HEIGHTS

A4.00

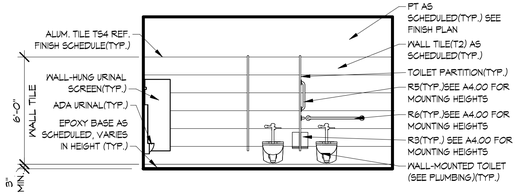
RESTROOM ACCESSORY SCHEDULE

KEY	DEVICE	MANUFACTURER & PRODUCT INFORMATION
R1	SOAP DISPENSER	GOJO NXT SPACE SAVER SOAP DISPENSER
R2	PAPER TOWEL DISPENSER	KIMBERLY CLARK SANITOUCH MANUAL HARD ROLL TOWEL DISPENSER
R3	TOILET TISSUE DISPENSER	KIMBERLY CLARK ESSENTIAL JUMBO ROLL TOILET PAPER DISPENSER
R4	SANITARY NAPKIN DISPOSAL UNIT	BOBRICK B-270
R5	VERTICAL ADA GRAB BAR	BOBRICK B-5806 (SIZE PER DRAWINGS)
R6	HORIZONTAL ADA GRAB BAR	BOBRICK B-5806 (SIZE PER DRAWINGS)
R7	BABY CHANGING STATION	KOALA KARE - KB310-SSRE (RECESSED CHANGING STATION
R8	MOP SHELF & HOOKS	BOBRICK B-239 X 34
R9	MIRROR	

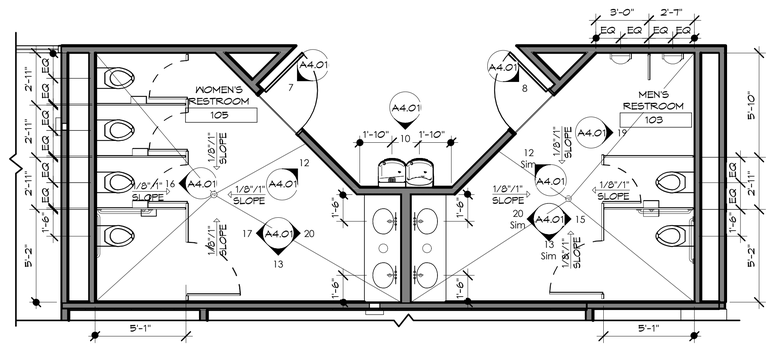
*REFER TO A4.00 FOR TYPICAL MOUNTING HEIGHTS
** COORDINATE WITH OWNER TO CONFIRM MODELS SELECTED ALIGN WITH THE STOCK OF SUPPLIES THEY KEEP.



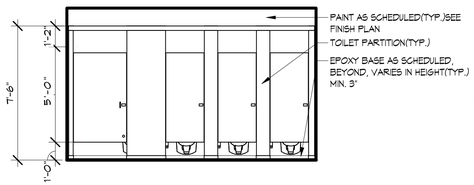
INTERIOR ELEVATION 20
1/4" = 1'-0"



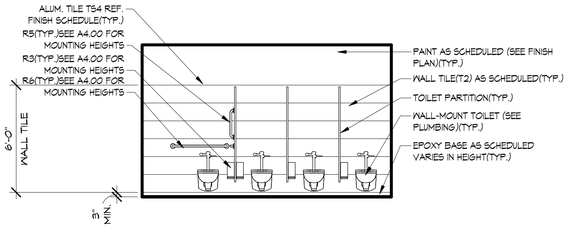
INTERIOR ELEVATION 19
1/4" = 1'-0"



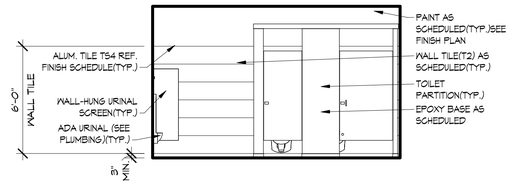
RESTROOM ENLARGED PLAN 18
1/4" = 1'-0"



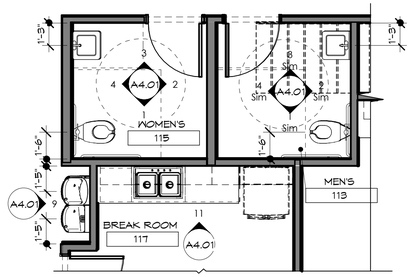
INTERIOR ELEVATION 17
1/4" = 1'-0"



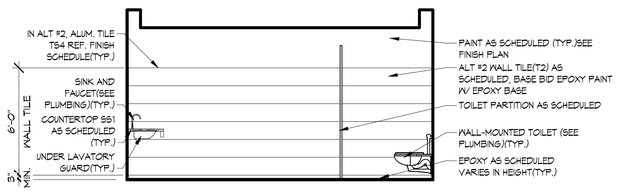
INTERIOR ELEVATION 16
1/4" = 1'-0"



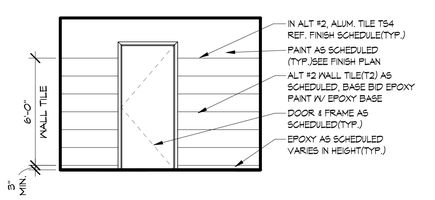
INTERIOR ELEVATION 15
1/4" = 1'-0"



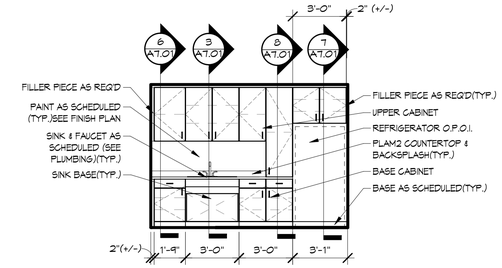
RESTROOM ENLARGED PLAN 14
1/4" = 1'-0"



INTERIOR ELEVATION 13
1/4" = 1'-0"



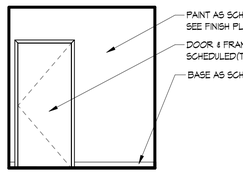
INTERIOR ELEVATION 12
1/4" = 1'-0"



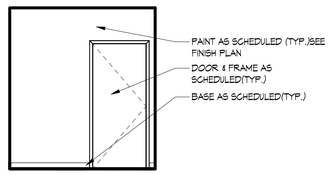
INTERIOR ELEVATION 11
1/4" = 1'-0"

INTERIOR ELEVATION 10
1/4" = 1'-0"

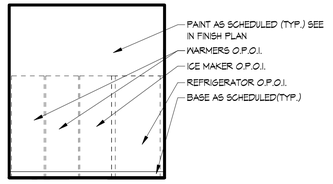
INTERIOR ELEVATION 9
1/4" = 1'-0"



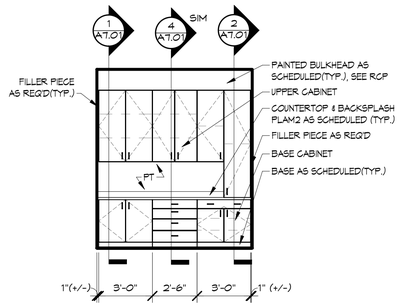
INTERIOR ELEVATION 8
1/4" = 1'-0"



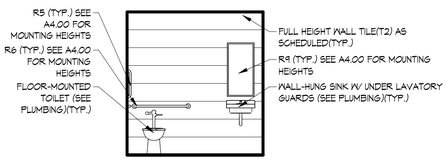
INTERIOR ELEVATION 7
1/4" = 1'-0"



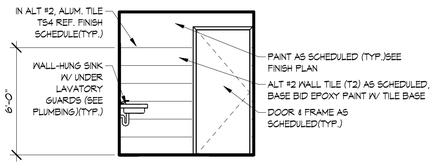
INTERIOR ELEVATION 6
1/4" = 1'-0"



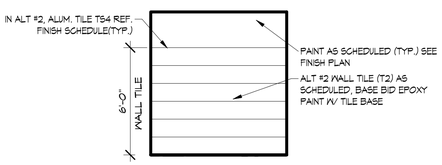
INTERIOR ELEVATION 5
1/4" = 1'-0"



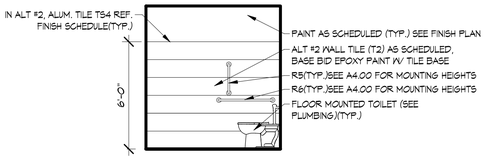
INTERIOR ELEVATION 4
1/4" = 1'-0"



INTERIOR ELEVATION 3
1/4" = 1'-0"



INTERIOR ELEVATION 2
1/4" = 1'-0"



INTERIOR ELEVATION 1
1/4" = 1'-0"

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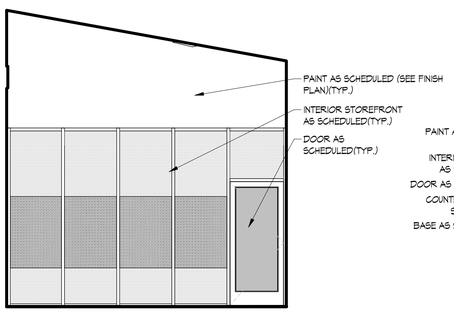
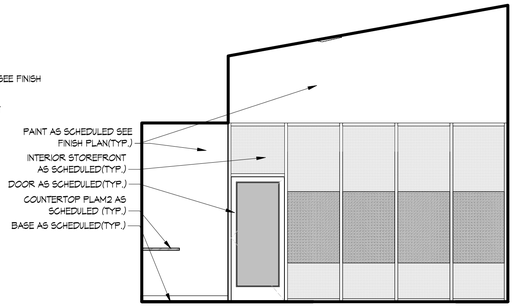
ENLARGED PLANS & INTERIOR ELEVATION

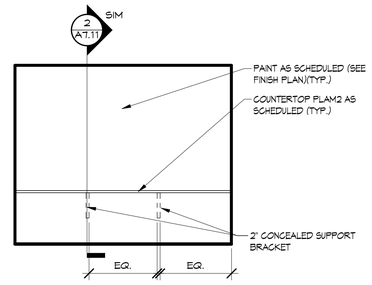
A4.01



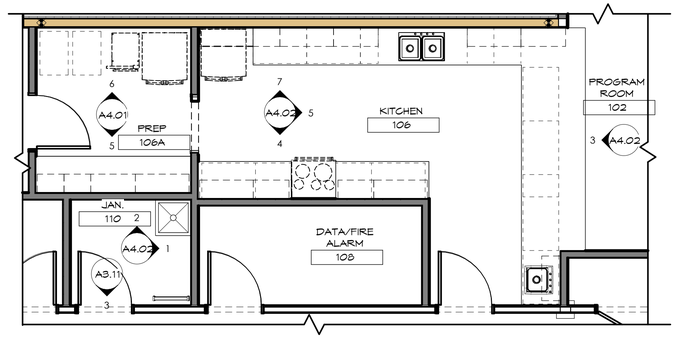
INTERIOR ELEVATION 18
1/4" = 1'-0"



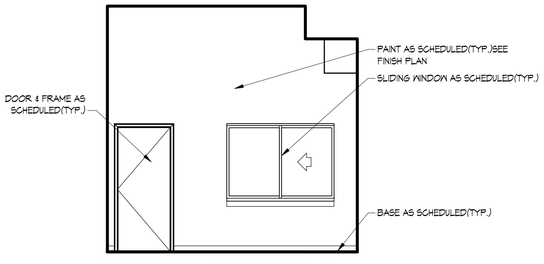
INTERIOR ELEVATION 17
1/4" = 1'-0"



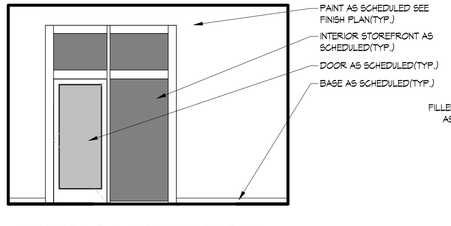
INTERIOR ELEVATION 16
1/4" = 1'-0"



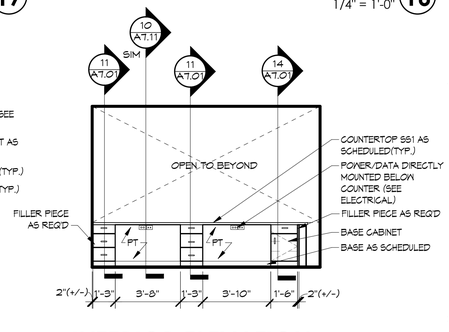
KITCHEN ENLARGED PLAN 15
1/4" = 1'-0"



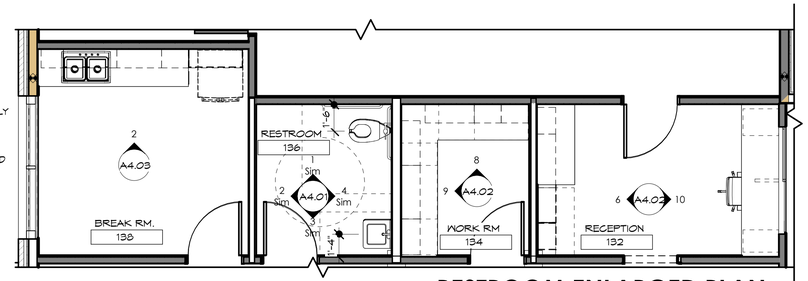
INTERIOR ELEVATION 14
1/4" = 1'-0"



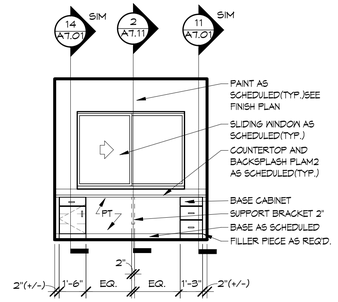
INTERIOR ELEVATION 13
1/4" = 1'-0"



INTERIOR ELEVATION 12
1/4" = 1'-0"



RESTROOM ENLARGED PLAN 11
1/4" = 1'-0"



INTERIOR ELEVATION 10
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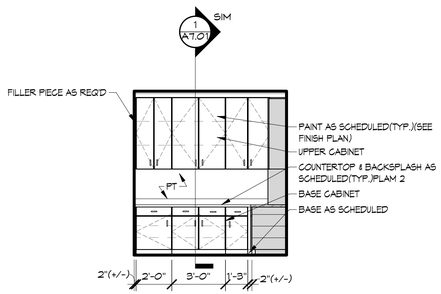
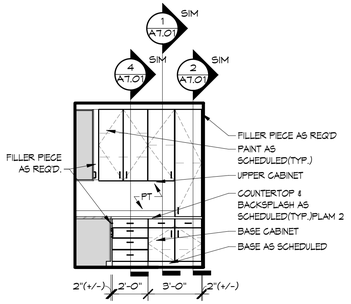
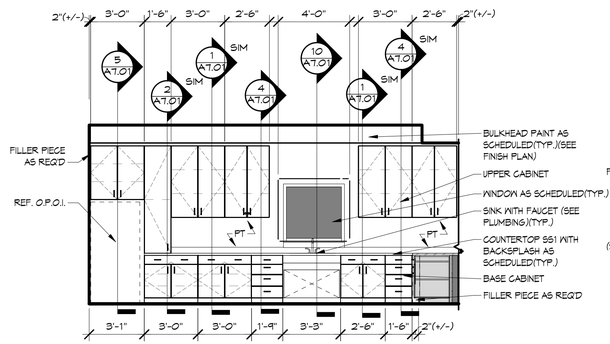


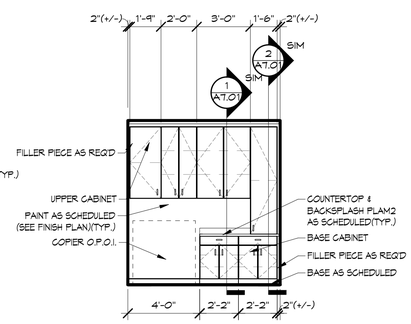
INTERIOR ELEVATION 9
1/4" = 1'-0"



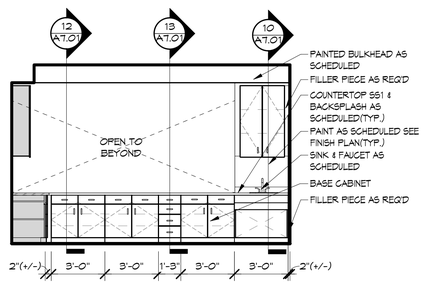
INTERIOR ELEVATION 8
1/4" = 1'-0"



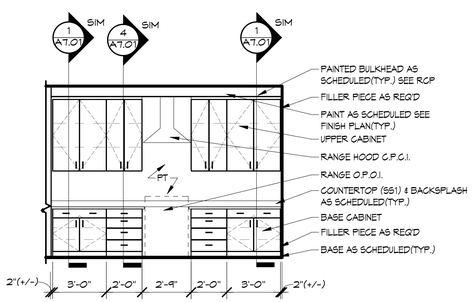
INTERIOR ELEVATION 7
1/4" = 1'-0"



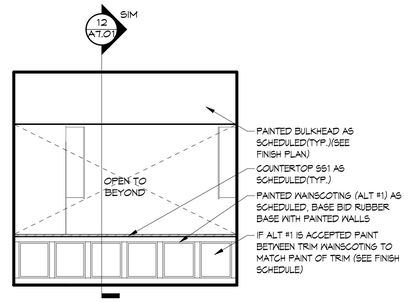
INTERIOR ELEVATION 6
1/4" = 1'-0"



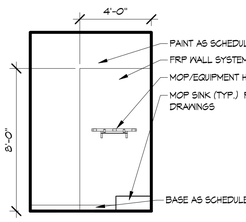
INTERIOR ELEVATION 5
1/4" = 1'-0"



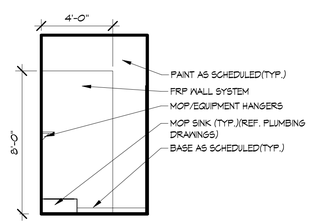
INTERIOR ELEVATION 4
1/4" = 1'-0"



INTERIOR ELEVATION 3
1/4" = 1'-0"



INTERIOR ELEVATION 2
1/4" = 1'-0"



INTERIOR ELEVATION 1
1/4" = 1'-0"

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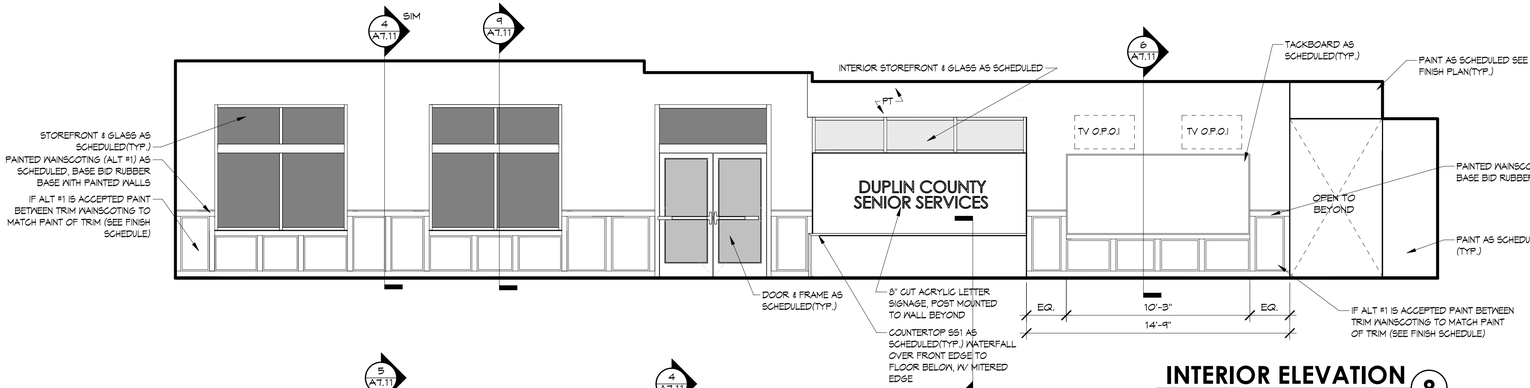
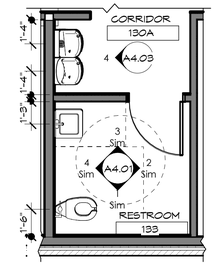
ENLARGED PLANS & INTERIOR ELEVATION

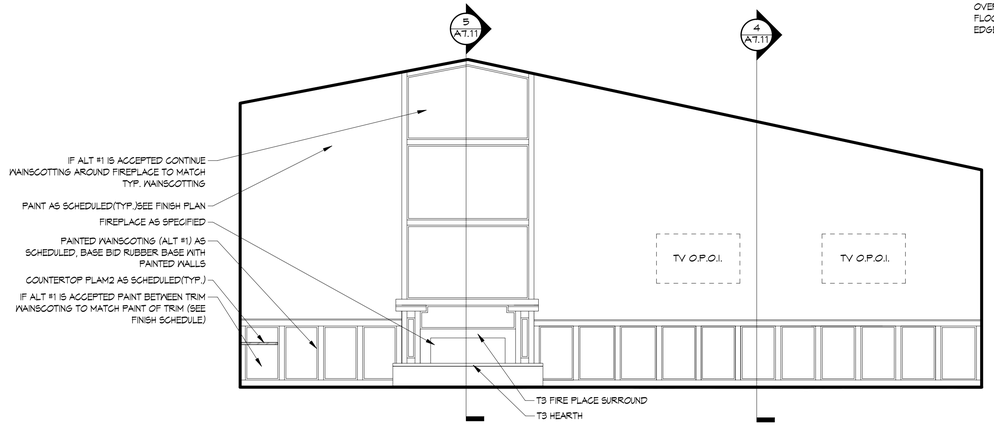
A4.02



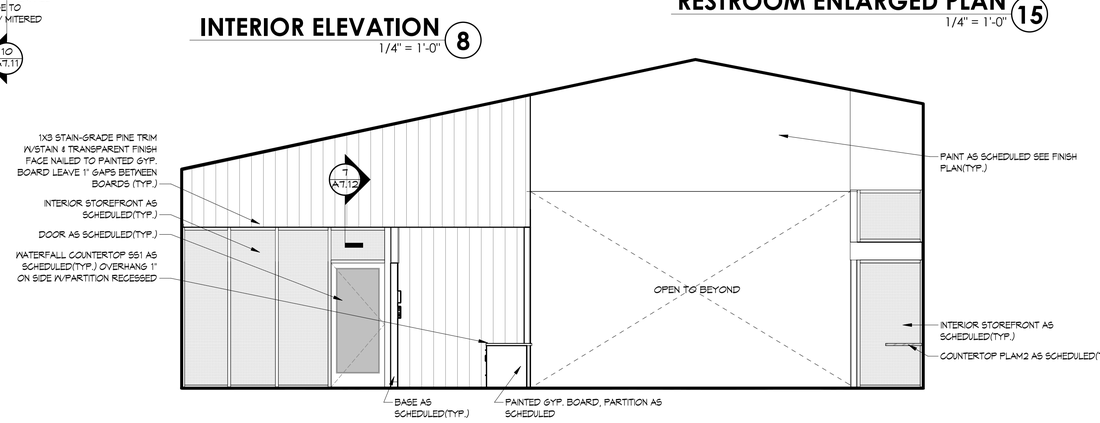
INTERIOR ELEVATION (8)
1/4" = 1'-0"



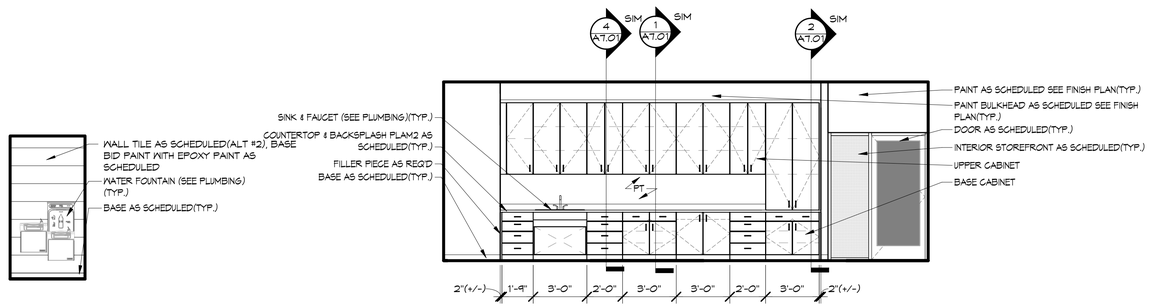
RESTROOM ENLARGED PLAN (15)
1/4" = 1'-0"



INTERIOR ELEVATION (6)
1/4" = 1'-0"



INTERIOR ELEVATION (7)
1/4" = 1'-0"



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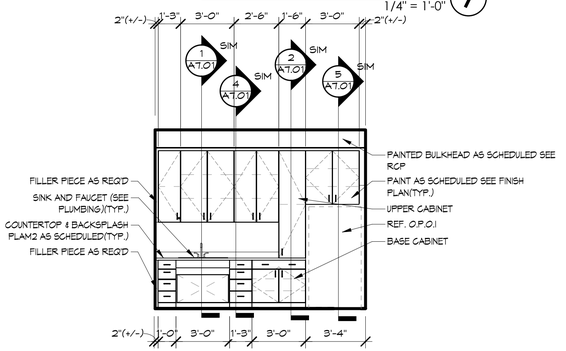
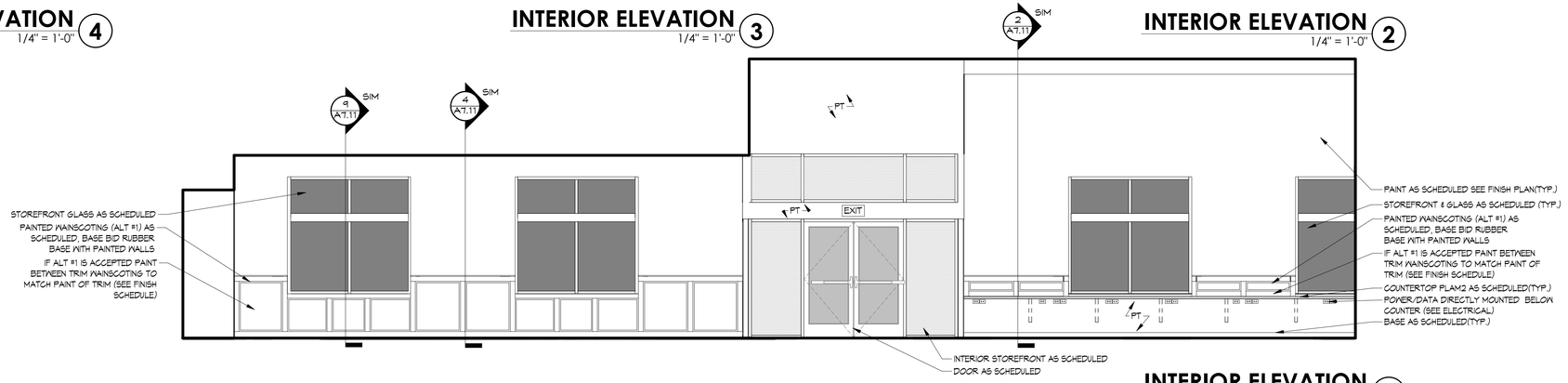


INTERIOR ELEVATION (3)
1/4" = 1'-0"



INTERIOR ELEVATION (2)
1/4" = 1'-0"

INTERIOR ELEVATION (1)
1/4" = 1'-0"

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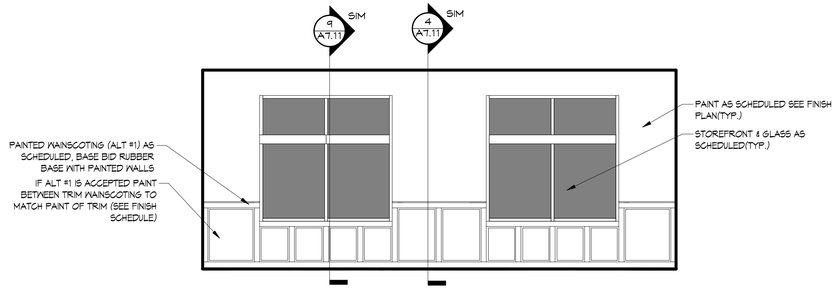
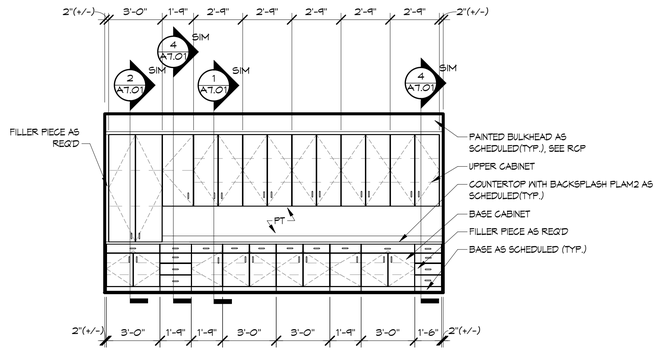
ENLARGED PLANS & INTERIOR ELEVATIONS

A4.03



INTERIOR ELEVATION 5
1/4" = 1'-0"



INTERIOR ELEVATION 4
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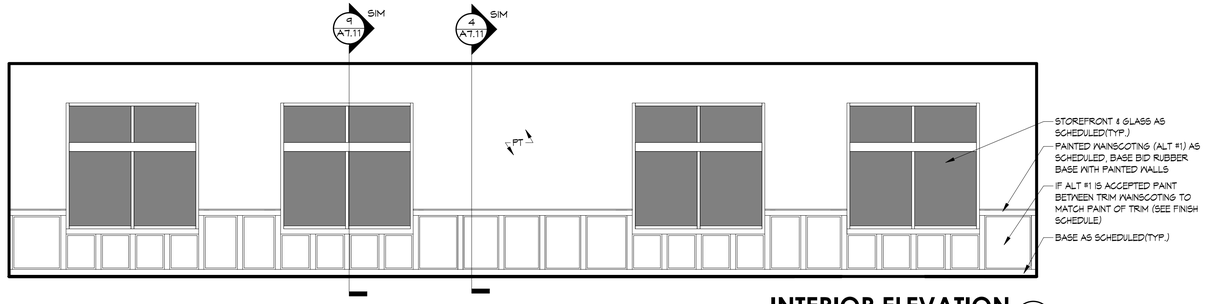
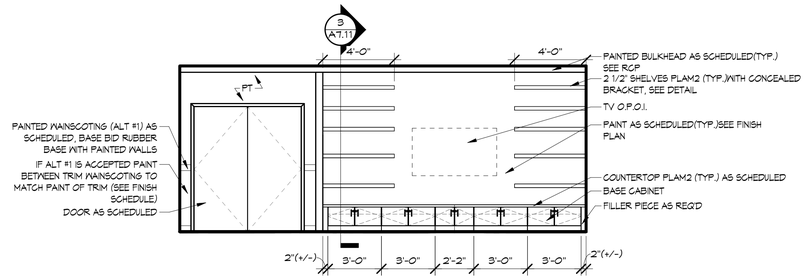


INTERIOR ELEVATION 3
1/4" = 1'-0"



INTERIOR ELEVATION 2
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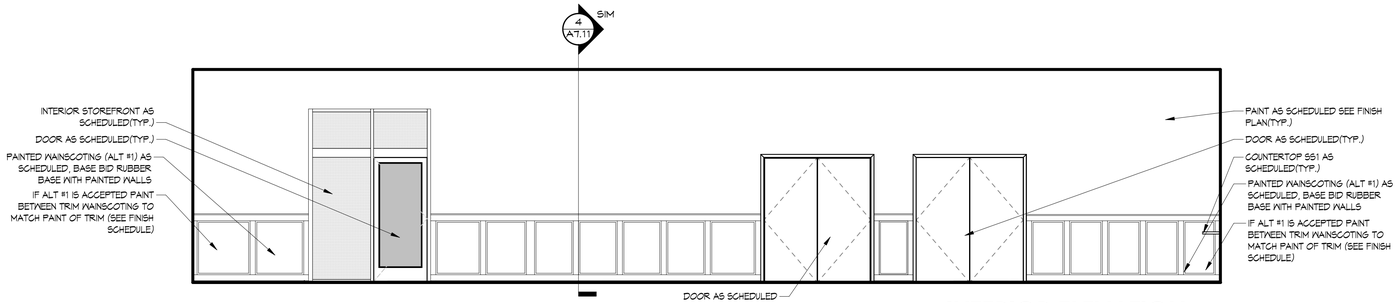

INTERIOR ELEVATION 1
1/4" = 1'-0"

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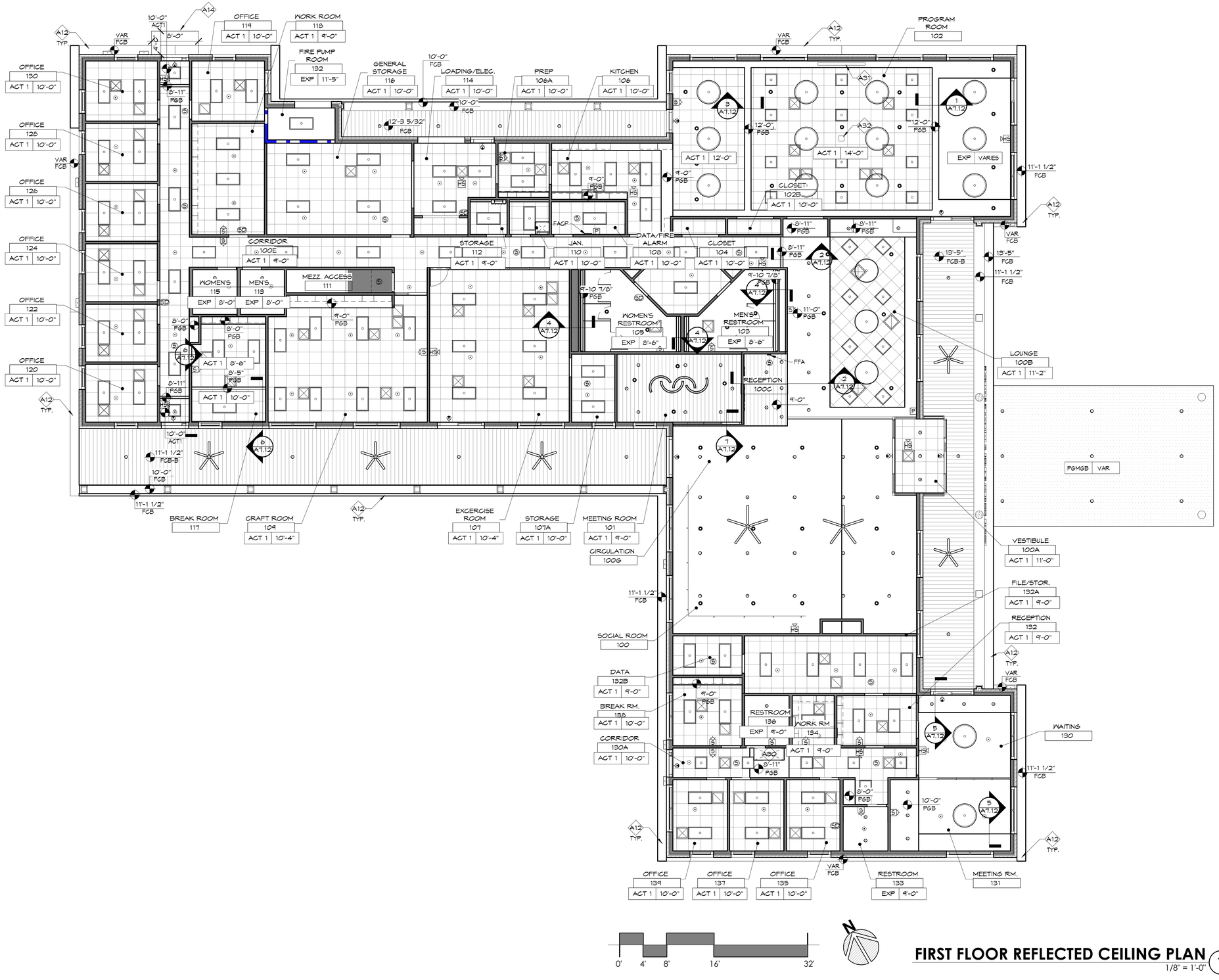
A4.04



KEY NOTES

A1 - BRICK VENEER EXTERIOR WALL ASSEMBLY, REF. WALL SECTIONS AND DETAILS.

A2 - PAINTED FIBER CEMENT BOARD SIDING, LAP SIDING TYP UNO.

A3 - ALUM. STOREFRONT/GLASS/DOOR AS SCHEDULED

A4 - 1X3 FIBER CEMENT BOARD TRIM AT OPENING JAMBS AND HEAD (TYP.)

A5 - STANDING SEAM METAL ROOF ASSEMBLY, REF. WALL SECTIONS AND DETAILS.

A6 - PREFINISHED ALUM FASCIA, REF. WALL SECTIONS AND DETAILS.

A7 - 8" WIDE BY 6" DEEP PREFINISHED ALUM GUTTERS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A8 - 5" X 5" PREFINISHED ALUM. DOWNSPOUTS, REF ROOF PLAN FOR SIZES, REF WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

A9 - BRICK ROW LOCK SILL (TYP.)

A10 - PREFABRICATED FIBERGLASS COLUMN WRAP

A11 - FIBER CEMENT TRIM BOARD, REF WALL SECTIONS AND DETAILS.

A12 - FIBER CEMENT BOARD VENTED SOFFIT, REF WALL SECTIONS AND DETAILS.

A13 - HURRICANE-RATED PRE-FINISHED LOUVER WITH BIRD AND INSECT SCREEN.

A14 - PREFABRICATED PREFINISHED ALUM CANOPY. SEE STRUCTURE FOR SUPPORT IN WALL.

A15 - PRE-FINISHED STANDING SEAM METAL ROOF ON BOW TRUSS PORTICO CHARE.

A16 - 12", 35 LETTERS, BACK-PAINTED ACRYLIC BUILDING SIGNAGE, POST-MOUNTED COPY AND FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A17 - INSULATED OVERHEAD COILING DOOR WITH VISION LITES AS SCHEDULED.

A18 - AUTO DOOR OPERATOR PUSH BUTTON, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A19 - AUTO DOOR OPERATOR LEAF, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A20 - CARD READER, SEE DOOR HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS.

A21 - REFRIGERATOR, O.P.O.I.

A22 - FREEZER, O.P.O.I.

A23 - ICE MAKER, O.P.O.I.

A24 - RANGE/OVEN, O.P.O.I.

A25 - COPY MACHINE, O.P.O.I.

A26 - HIGH/LOW WATER FOUNTAIN WITH BOTTLE FILLER

A27 - TV MONITOR, O.P.O.I, SEE ELECTRICAL DRAWINGS.

A28 - MOP SINK WITH MOP HOOK WITH SHELF ABOVE AT 48" A.F.F.

A29 - VERTICAL ACCESS LADDER TO MEZZANINE ABOVE. PROVIDE INTEGRAL LOOPING HANDRAIL EXTENSION FOR SAFE ACCESS ON AND OFF LADDER.

A30 - PULL-DOWN SHIPS LADDER TO ACCESS MEZZANINE.

A31 - RECESSED PROJECTION SCREEN

A32 - CEILING-MOUNTED PROJECTOR, O.P.O.I.

A33 - MECHANICAL UNIT, REF MECH DRAWINGS

A34 - MASONRY EXPANSION JOINT

A35 - PRE-FINISHED ALUM. ROOF TO WALL FLASHING, RUN UP WALL MIN. 8"

A36 - ELECTRIC FIRE PLACE - REF INTERIOR ELEVATIONS. FIRE PLACE, FRAMED SURROUND, AND FINISH TRIM WORK ON FIRE PLACE SURROUND SHALL BE INCLUDED IN ALT #3. BASE BID SHALL OMIT THESE ITMES.

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A39 - WATER HEATER REF. MECH DRAWINGS.

A40 - PROVIDE 3", 14 LETTERS, FROSTED SIGNAGE ON GLAZING. FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

A41 - PROVIDE 3", 16 LETTERS, FROSTED SIGNAGE ON GLAZING. FONT TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

FIRST FLOOR REFLECTED CEILING PLAN (1)

1/8" = 1'-0"

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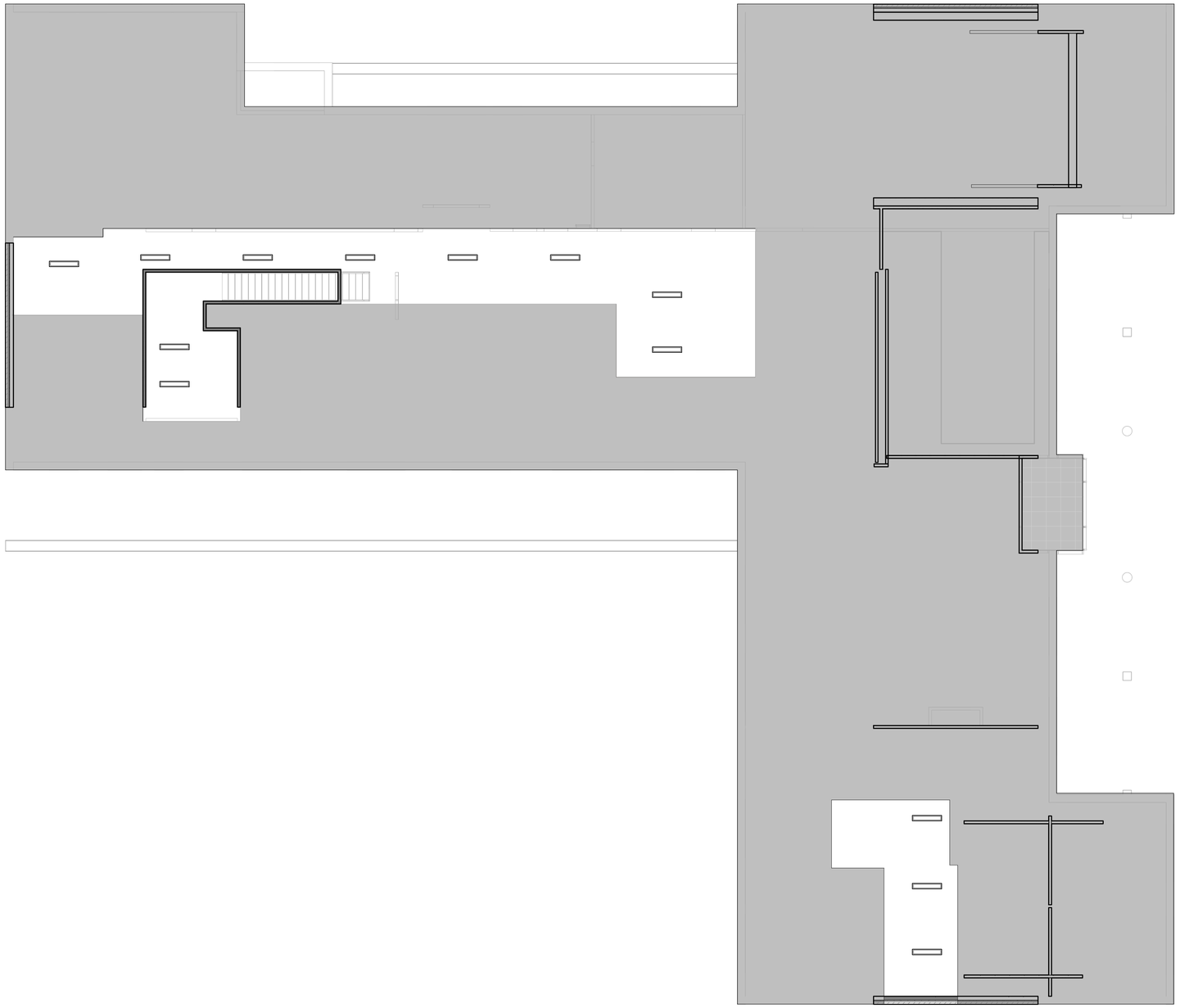
FIRST FLOOR REFLECTED CEILING PLAN

A5.01



0' 4' 8' 16' 32'

MEZZANINE REFLECTED CEILING PLAN

1/8" = 1'-0" (1)

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MEZZANINE REFLECTED CEILING PLAN

A5.02

AIR BARRIER CONCEPTUAL DIAGRAM KEYNOTES

REPRESENTED BY: #

1.	SPF AIR BARRIER	13.	EXTERIOR WALL INNER WYTHE
2.	VAPOR/AIR BARRIER MEMBRANE	14.	COPING - OUTLINE MAY VARY
3.	AIR BARRIER TRANSITION STRIP	15.	CAVITY INSULATION
4.	AIR BARRIER TRANSITION STRIP AROUND ENTIRE PENETRATION	16.	JOINT WIDTH VARIES
5.	AIR BARRIER MEMBRANE - LAP AND CONTINUE UP AND OVER PARAPET	17.	DAMP PROOFING AND/OR WATERPROOFING (REFER TO WALL SECTIONS AND DETAILS)
6.	VAPOR / AIR BARRIER MEMBRANE - TURN UP, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS	18.	SLAB-ON-GRADE
7.	VAPOR / AIR BARRIER MEMBRANE - EXTEND UP FACE OF WALL, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL, THEN CUT OFF FLUSH WITH TOP OF SLAB.	19.	FACE OF WALL SHEATHING OR VERTICAL ELEMENT
8.	ROOF DECK	20.	DISSIMILAR MATERIALS
9.	FULLY SEAL BETWEEN INSULATION AND PENETRATION ITEM	21.	PENETRATION ITEM
10.	ROOF INSULATION	22.	MATERIAL OR WALL BEING PENETRATED
11.	SUBSTRATE BOARD	23.	GROUTED SOLID MASONRY - SERVES AS AIR BARRIER
12.	POROUS FILL	24.	AIR BARRIER SYSTEM
		25.	ROOF MEMBRANE

AIR BARRIER CONCEPTUAL DISCLOSURE

THESE DRAWINGS DEPICT THE EXTENT OF THE AIR BARRIER MEMBRANE / MATERIAL / SYSTEM AND EXTERIOR BUILDING ENVELOPE ENCLOSURE. THE DRAWING IS CONCEPTUAL AND IS COMPLEMENTARY TO OTHER AIR BARRIER AND BUILDING ENVELOPE ENCLOSURE DETAILS, SECTIONS, ASSEMBLIES, AND SPECIFICATIONS.

THE UNDERSLAB VAPOR / AIR BARRIER MATERIAL IN ASSOCIATION WITH THE AIR BARRIER MEMBRANE / MATERIAL ON THE WALLS AND ROOF COMPOSE THE EXTERIOR BUILDING ENVELOPE ENCLOSURE TO PREVENT AIR INFILTRATION AND EXFILTRATION.

THE EXTERIOR BUILDING ENVELOPE ENCLOSURE MAY EXTEND WITHIN EXTERIOR WALLS WHERE THE INTERIOR AND EXTERIOR ENVIRONMENTS ARE NOT SEPARATED (E.G. MECHANICAL AND ELECTRICAL ROOMS, STAIRS, ELEVATIONS, AND SIMILAR UNCONDITIONED SPACES). IN SUCH AREAS, MAINTAIN AIR BARRIER CONTINUITY AT THE PARTITIONS SEPARATING THE CONDITIONED SPACES, SEALING ALL PENETRATIONS, VOIDS, AND GAPS FROM FLOOR TO DECK ABOVE. WHERE SUCH AREAS HAVE PAINTED MASONRY PARTITIONS WITH ADJACENT, SUSPENDED CEILINGS, CONTINUE PAINT FINISH ABOVE CEILINGS FULL HEIGHT TO DECK.

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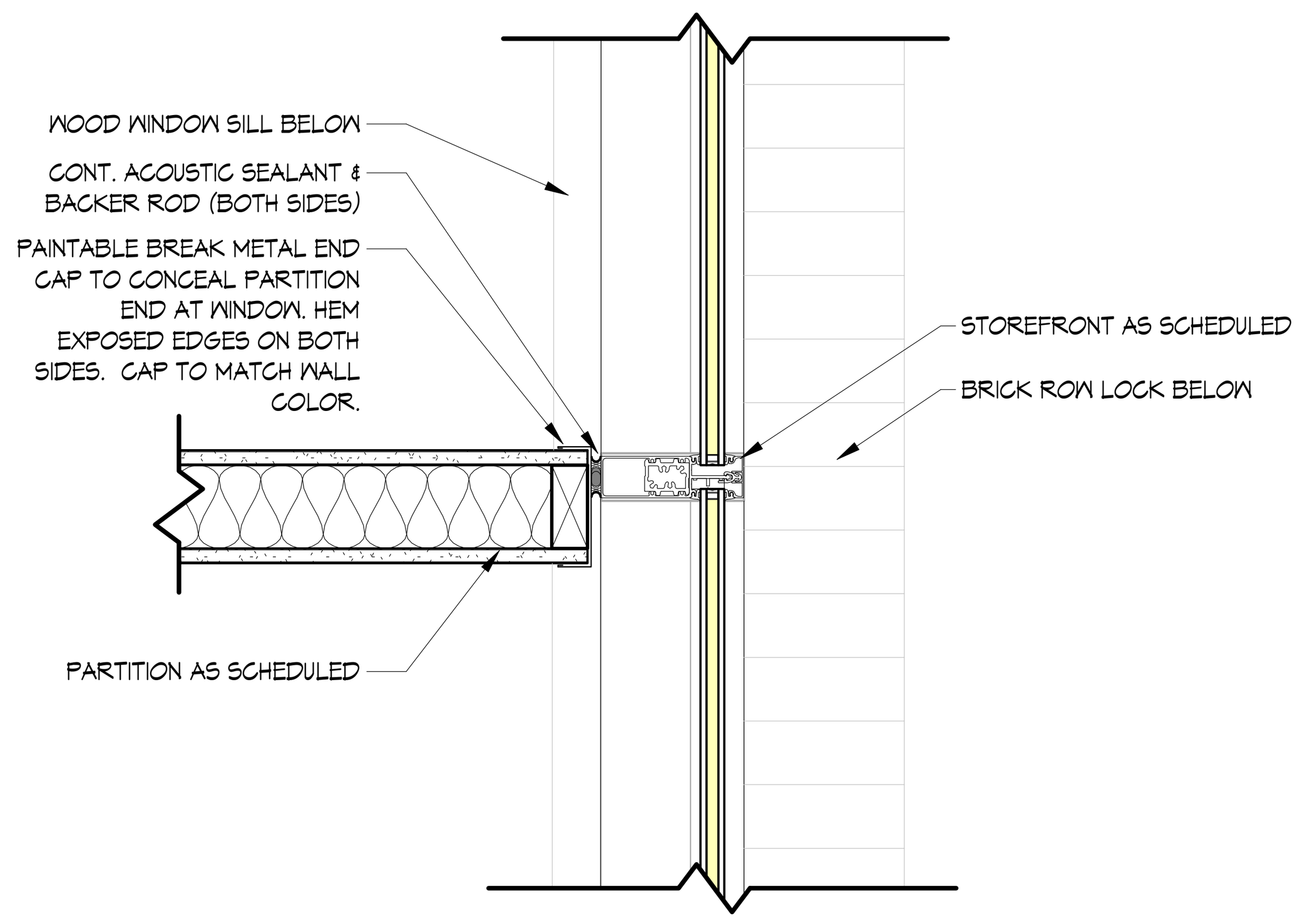
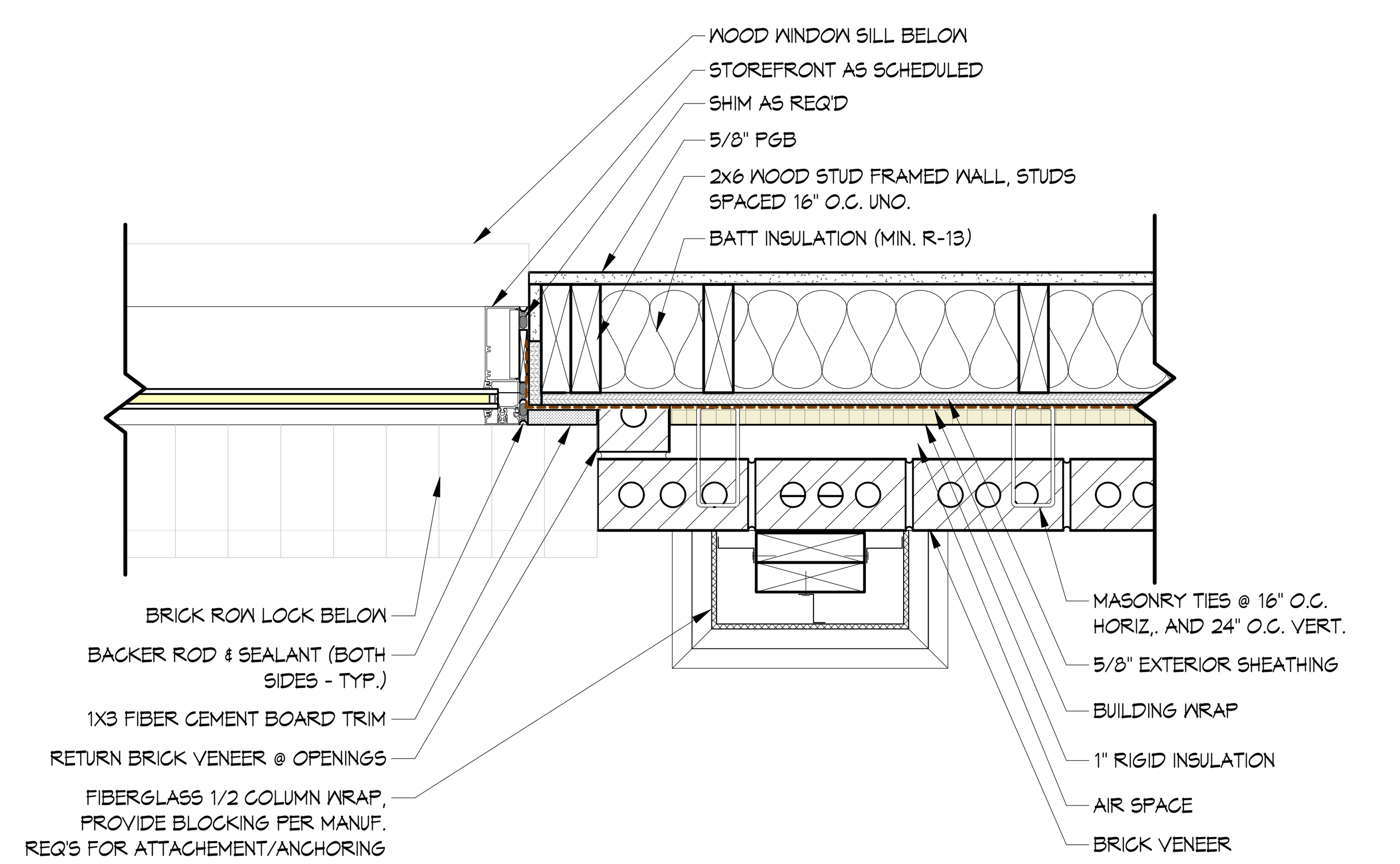


PLAN DETAIL 5
1 1/2" = 1'-0"



PLAN DETAIL 3
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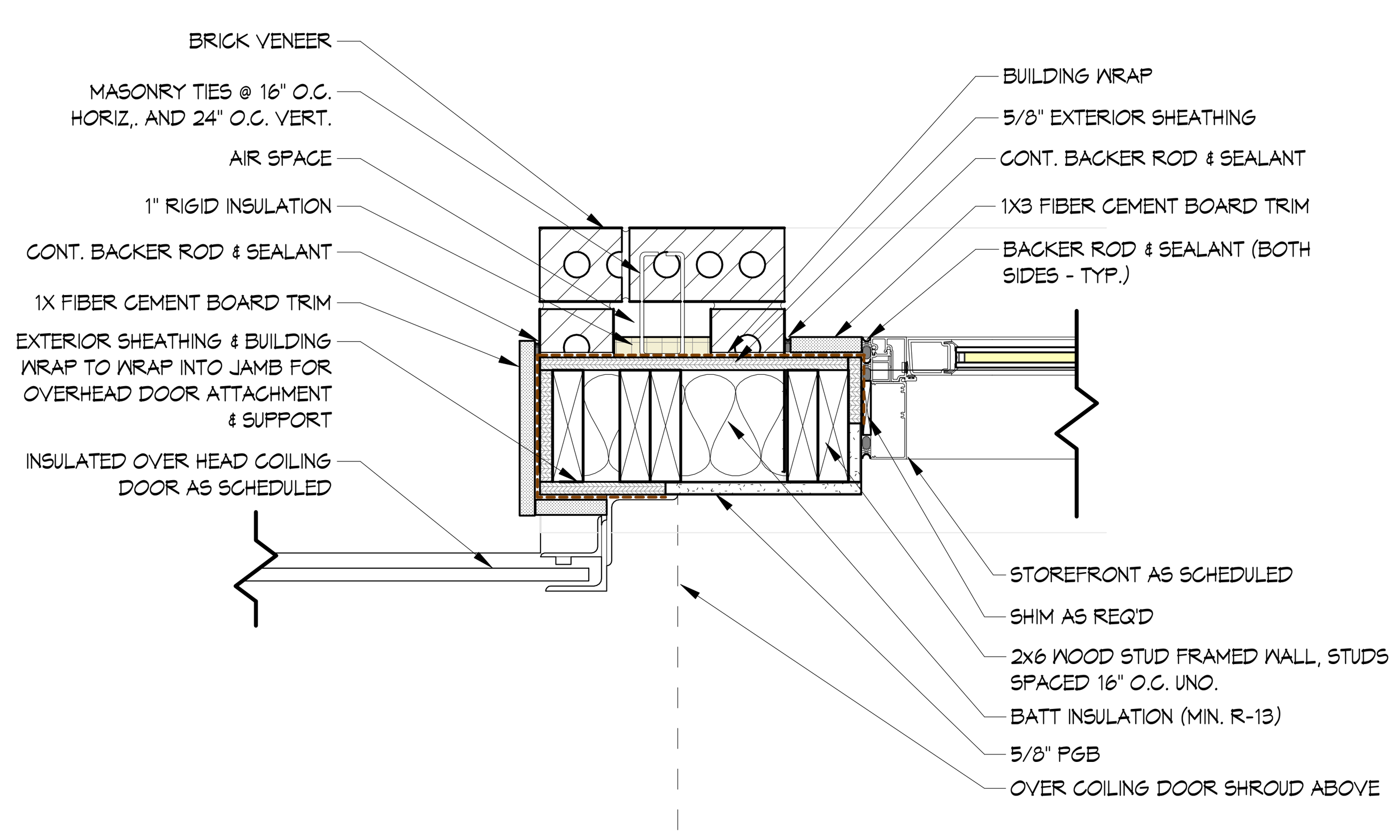
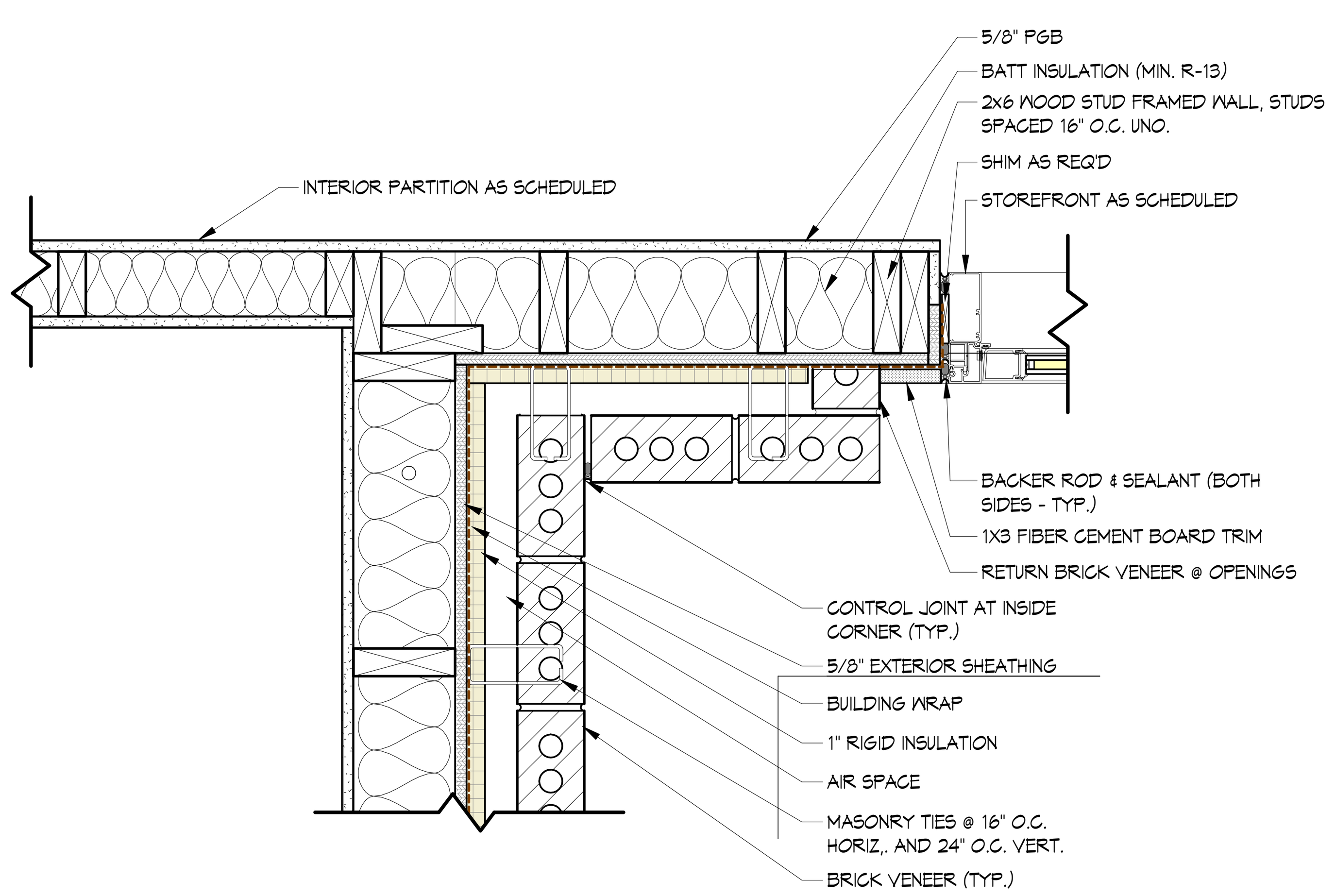


PLAN DETAIL 4
1 1/2" = 1'-0"



PLAN DETAIL 2
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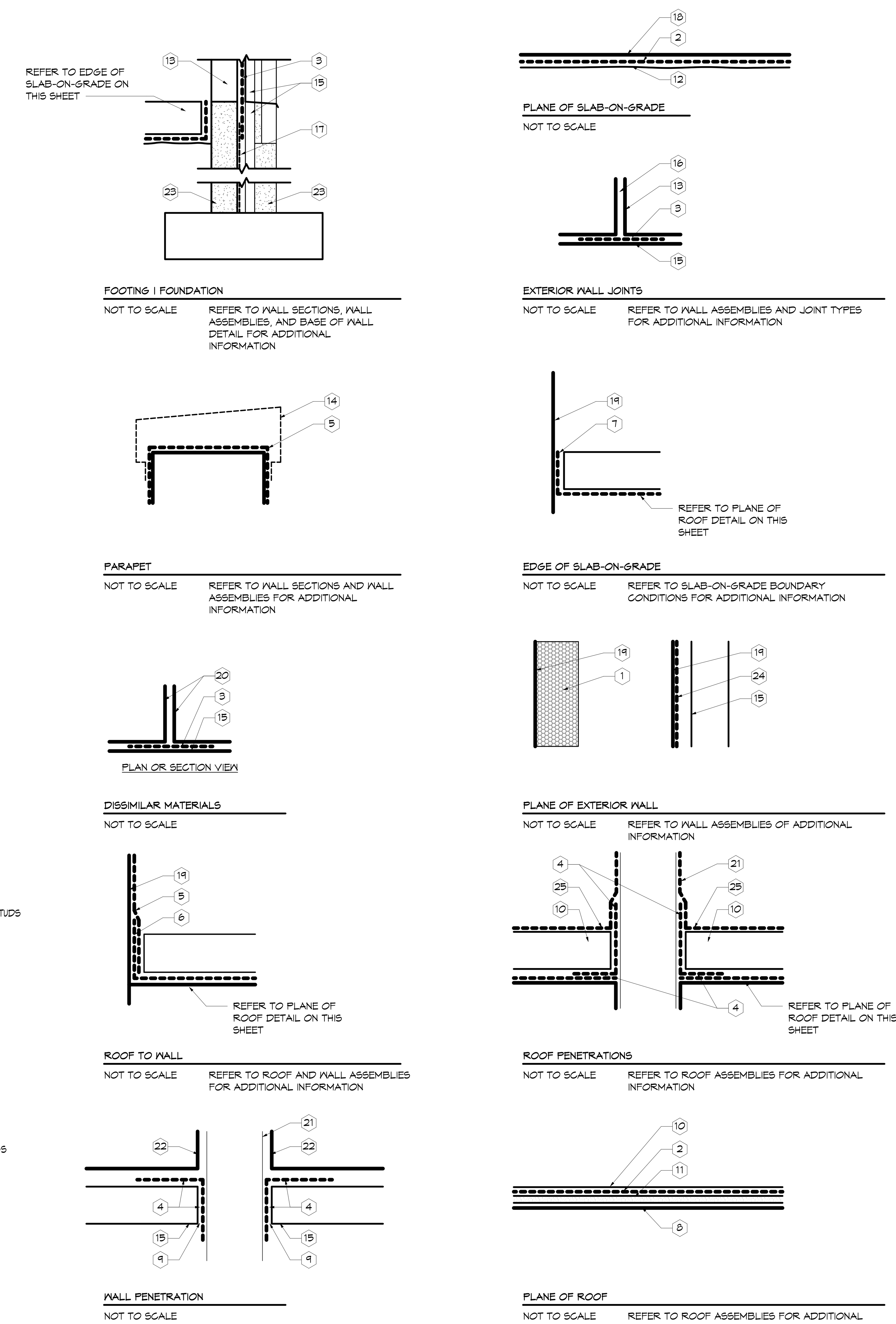

AIR BARRIER CONCEPTUAL DIAGRAMS 1
1 1/2" = 1'-0"

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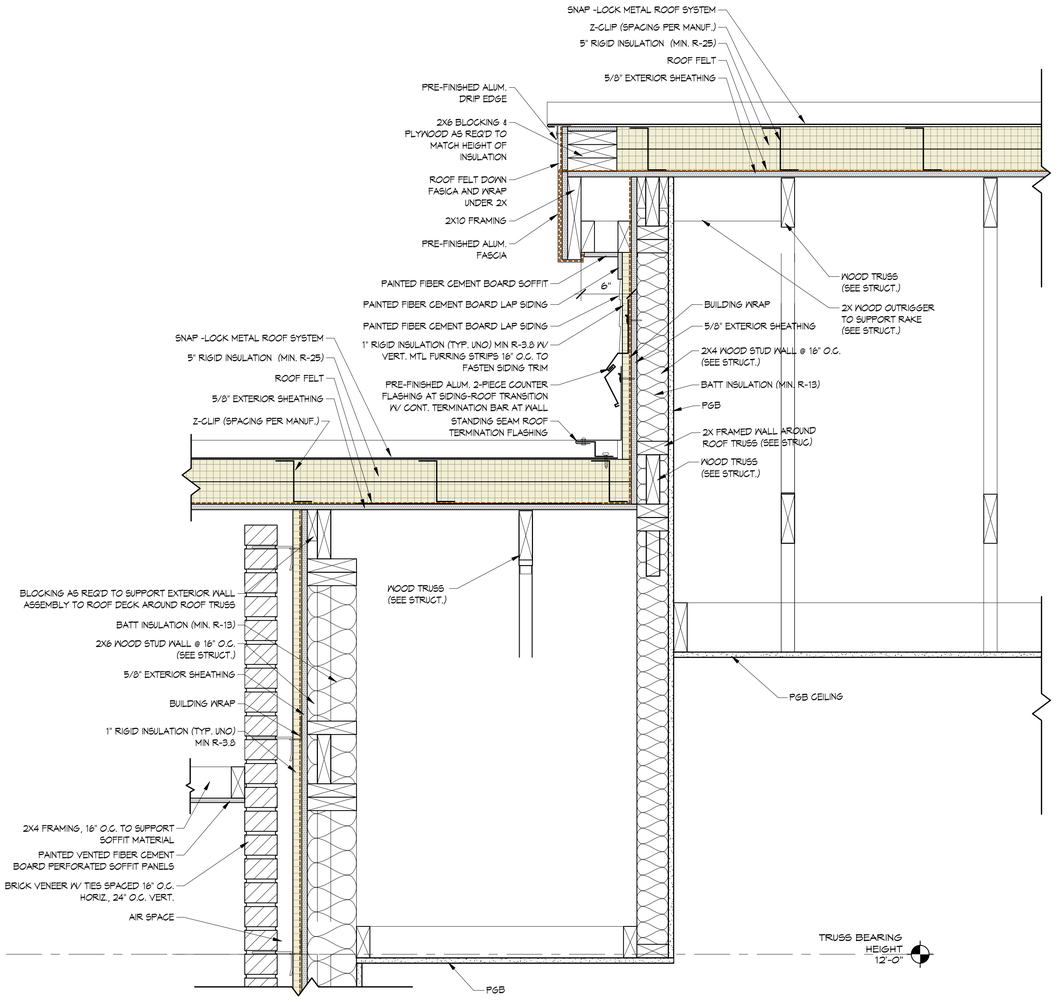
SHEET NAME & NUMBER
PLAN DETAILS

A6.01



SECTION DETAIL 4
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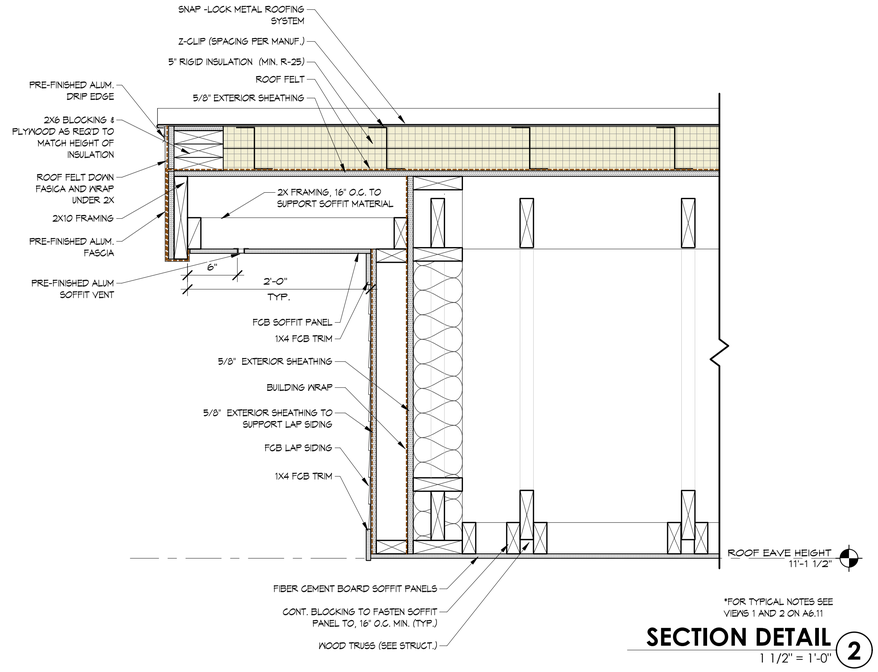

*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 2
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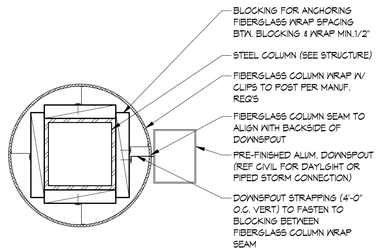
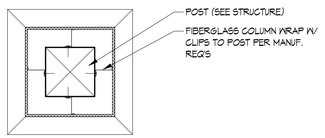
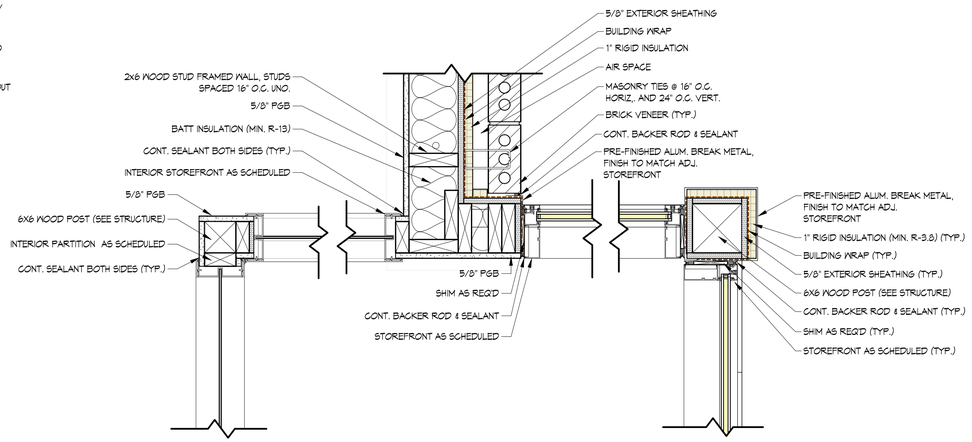


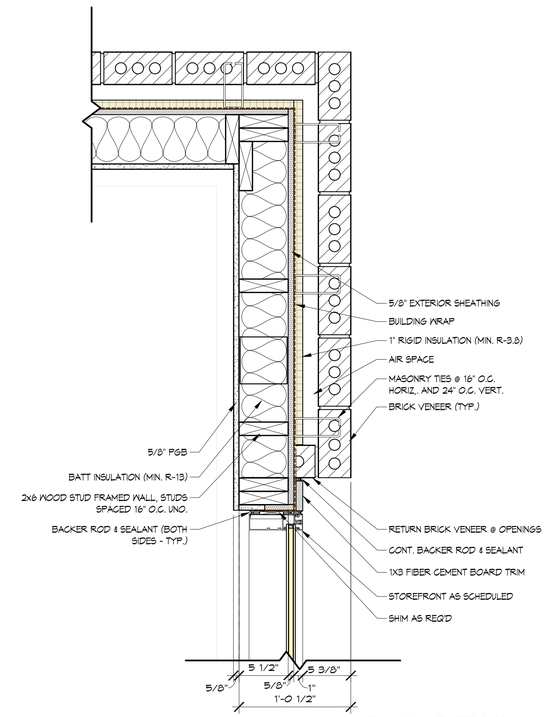
TYP. ROUND COLUMN PLAN DETAIL 6
1 1/2" = 1'-0"



TYP. SQUARE COLUMN PLAN DETAIL 5
1 1/2" = 1'-0"



PLAN DETAIL 3
1 1/2" = 1'-0"



PLAN DETAIL 1
1 1/2" = 1'-0"

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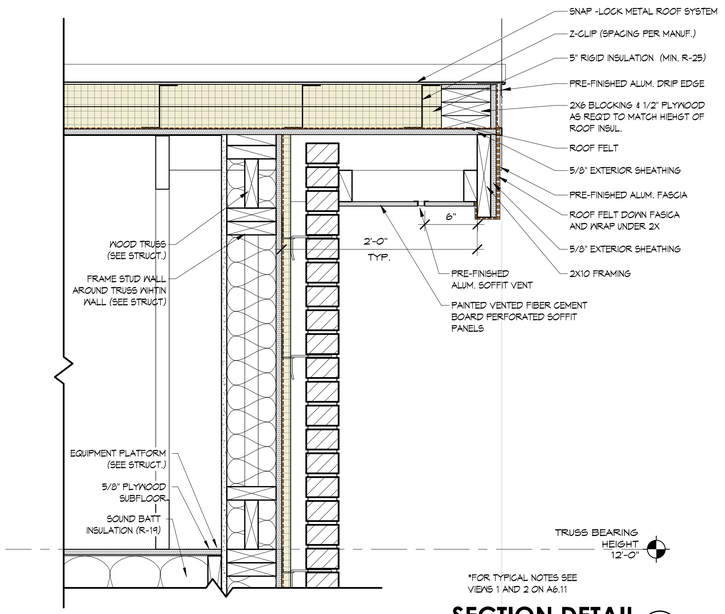
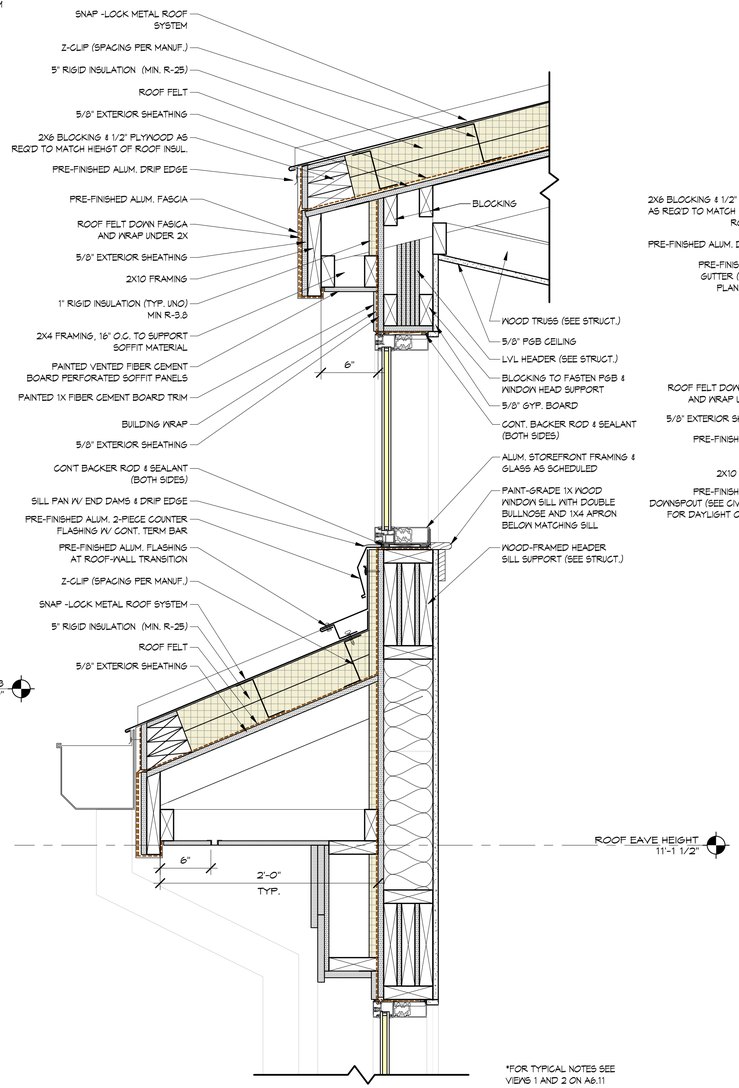
A6.02



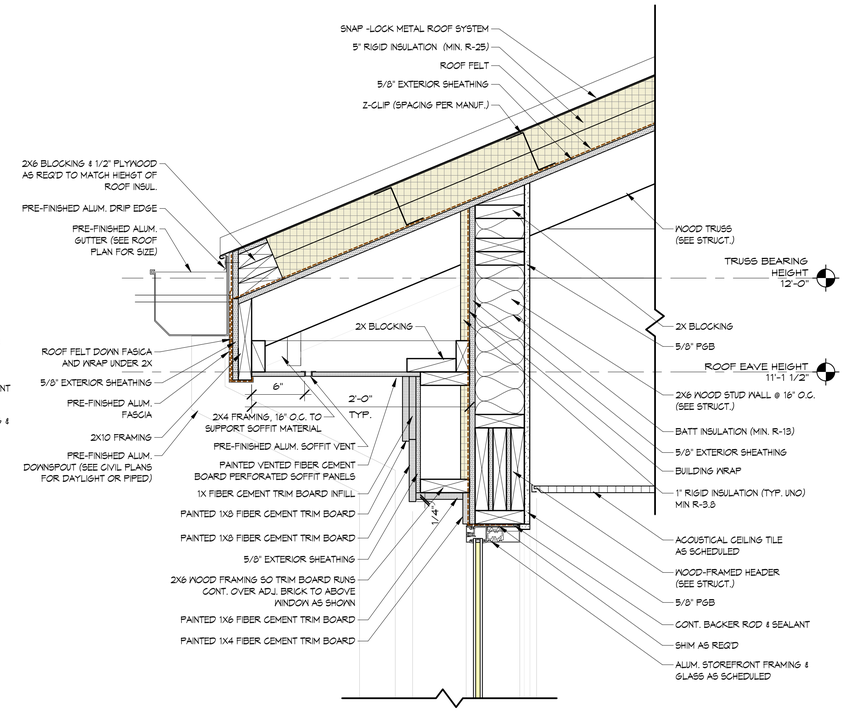
*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 7
1 1/2" = 1'-0"



*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

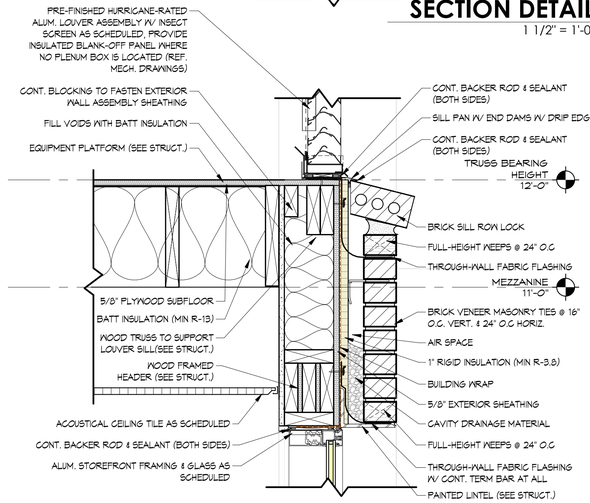
EAVE SECTION DETAIL @ DORMER 4
1 1/2" = 1'-0"



TYP. EAVE SECTION DETAIL 2
1 1/2" = 1'-0"

*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 6
1 1/2" = 1'-0"



*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 5
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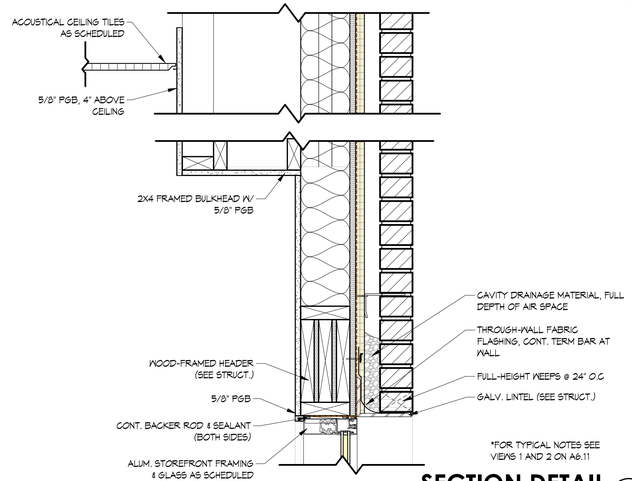

*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 3
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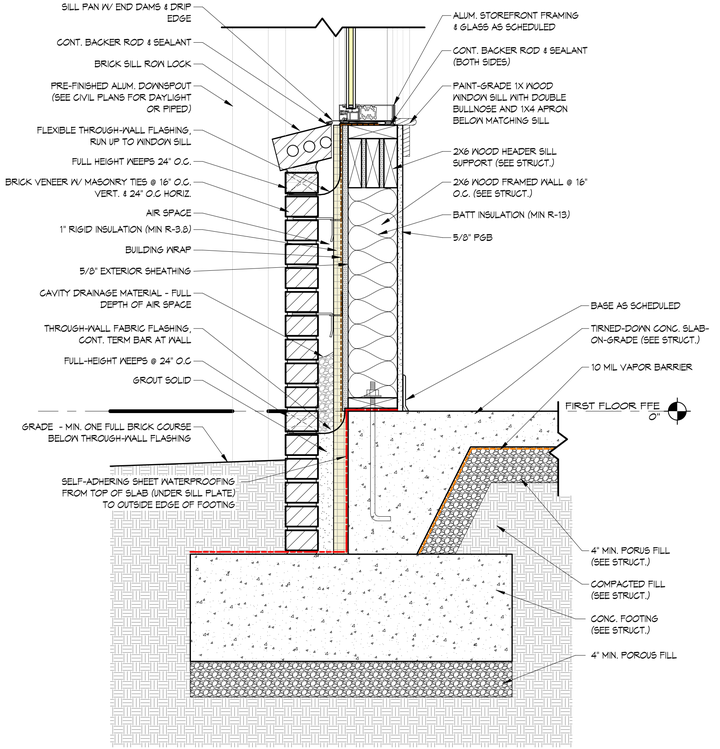

TYP. FOOTING SECTION DETAIL 1
1 1/2" = 1'-0"

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REGISTERED ARCHITECT
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NORTH CAROLINA
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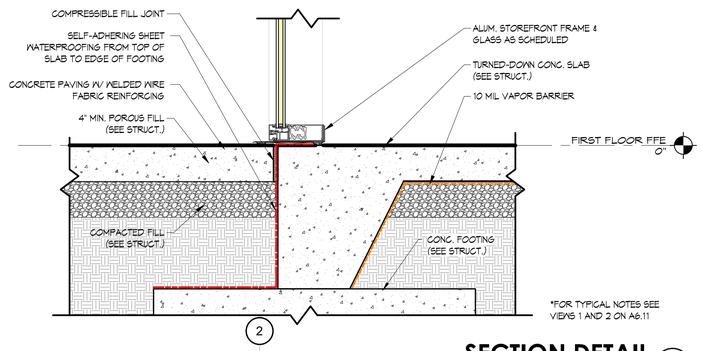
A6.11



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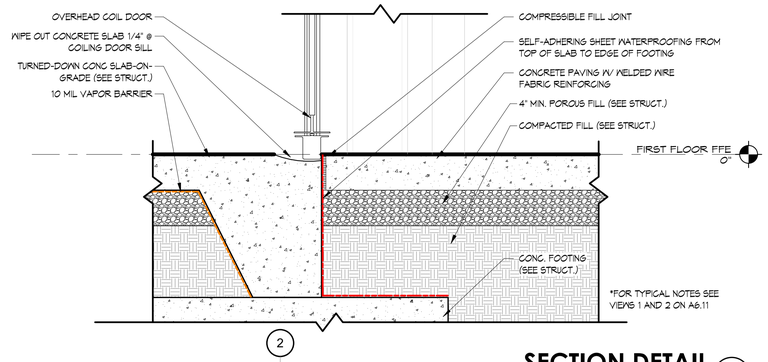

SECTION DETAIL 3
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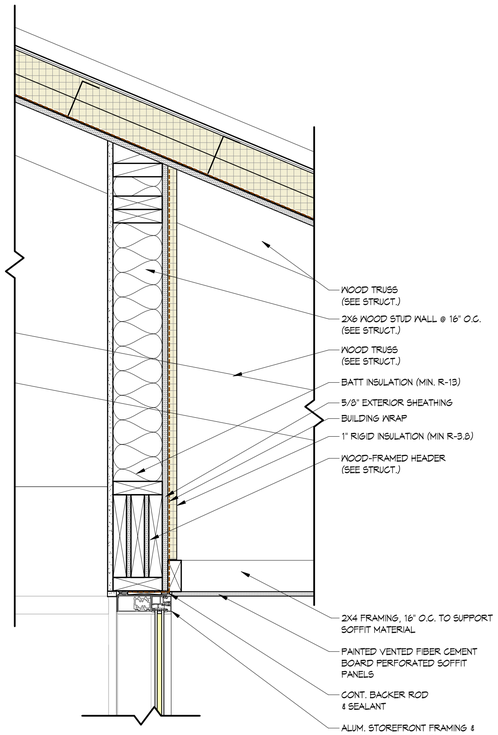

*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 8
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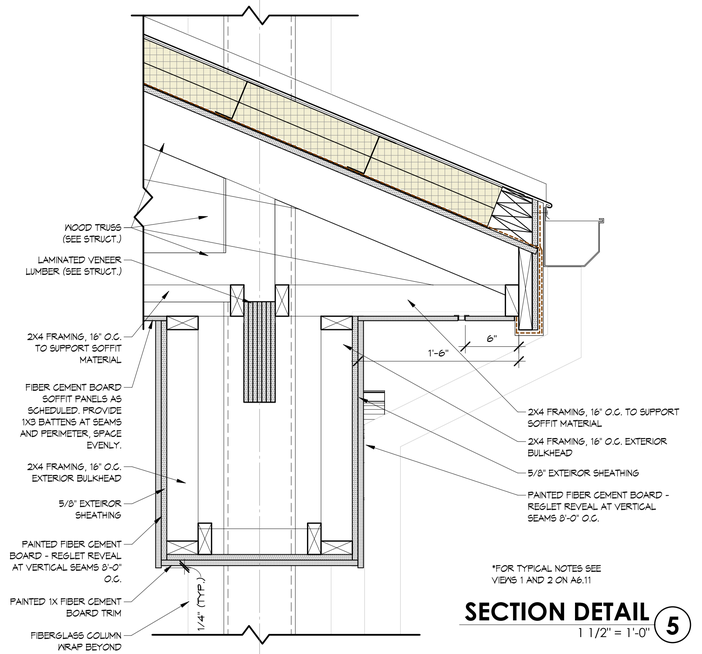
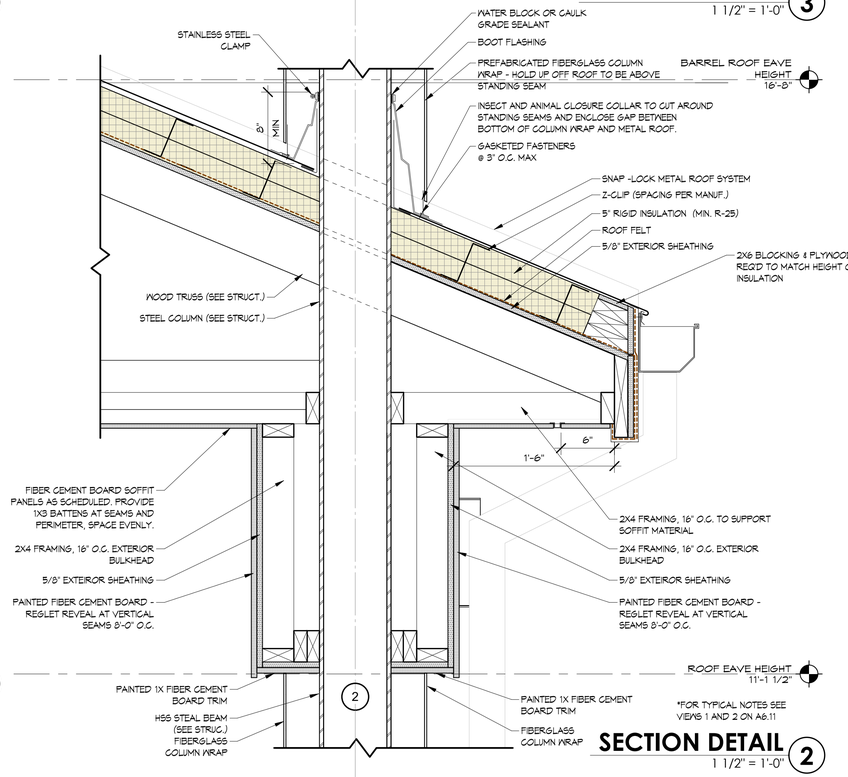


*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 5
1 1/2" = 1'-0"



*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 2
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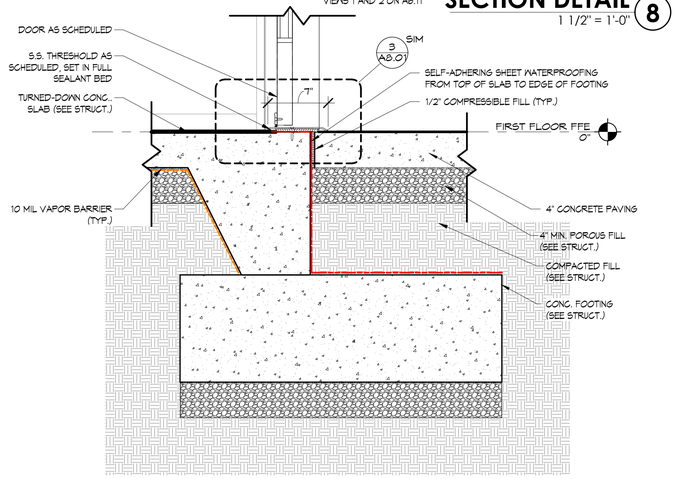

*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

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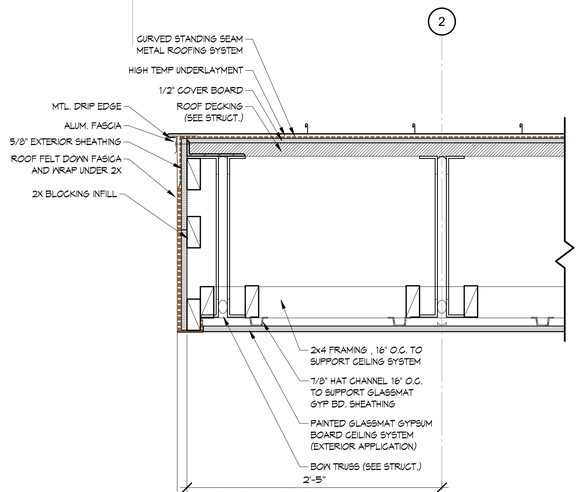
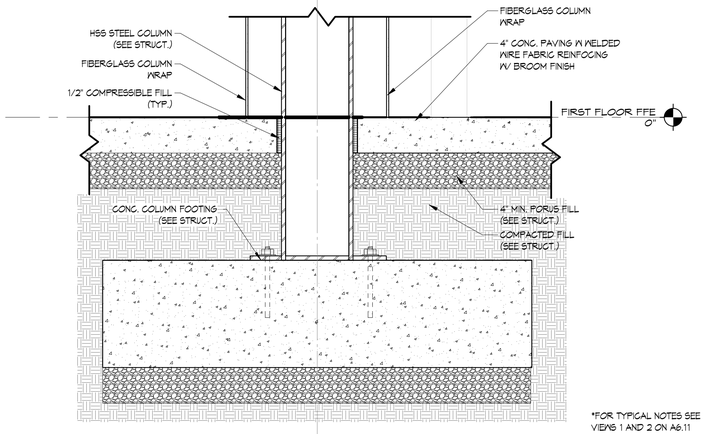


*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 4
1 1/2" = 1'-0"



*FOR TYPICAL NOTES SEE VIEWS 1 AND 2 ON A6.11

SECTION DETAIL 1
1 1/2" = 1'-0"

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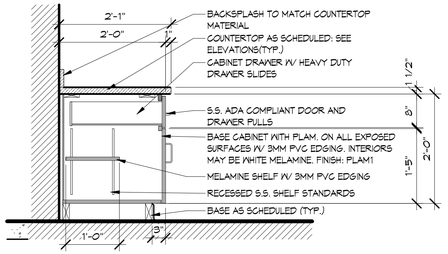
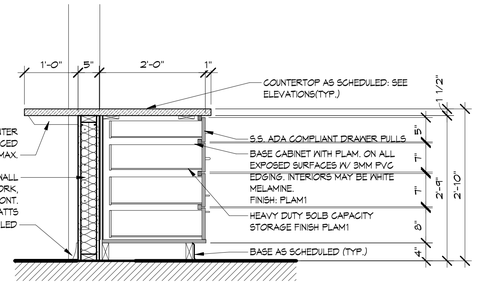
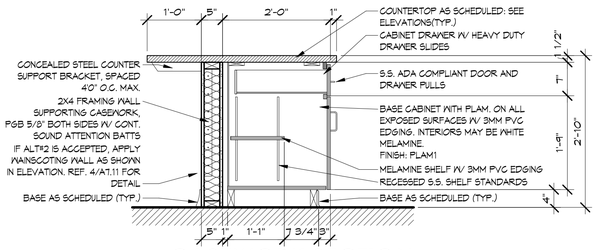
A6.12



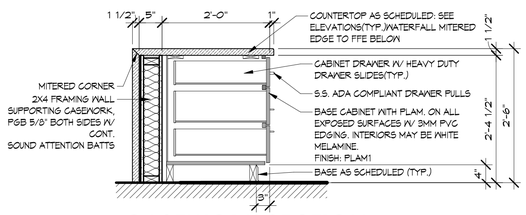
CASEWORK SECTION 14
3/4" = 1'-0"



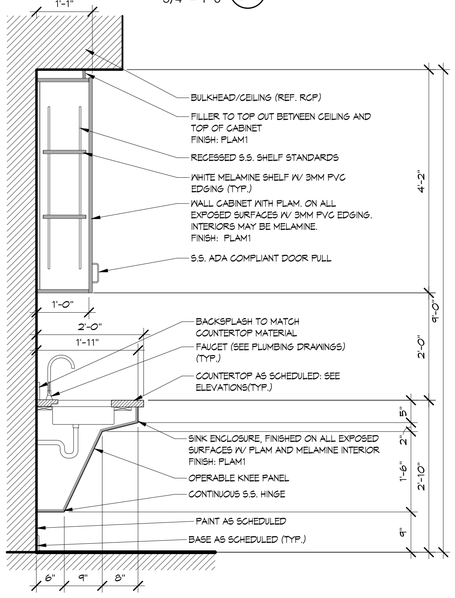
CASEWORK SECTION 13
3/4" = 1'-0"



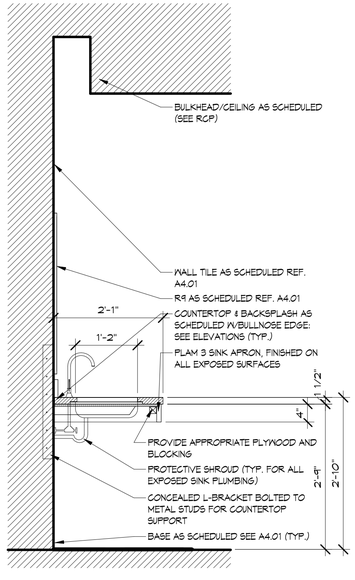
CASEWORK SECTION 12
3/4" = 1'-0"



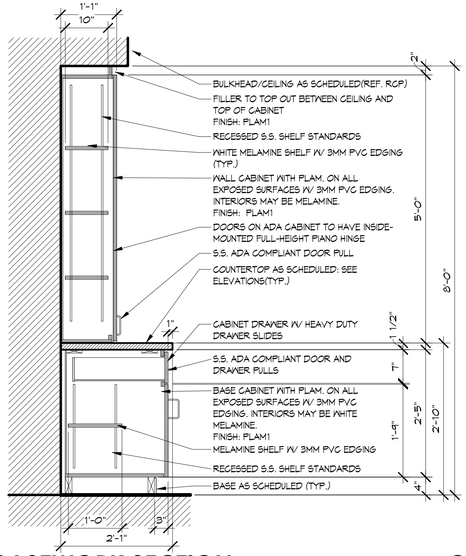
CASEWORK SECTION 11
3/4" = 1'-0"



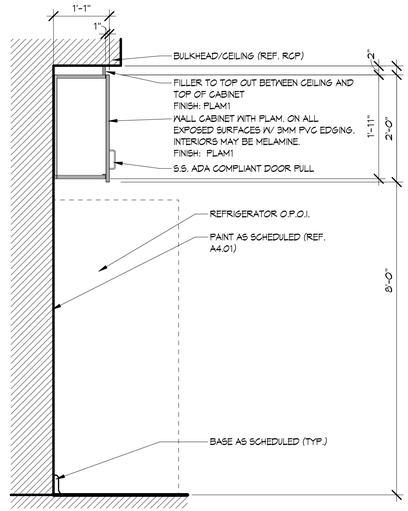
CASEWORK SECTION 10
3/4" = 1'-0"



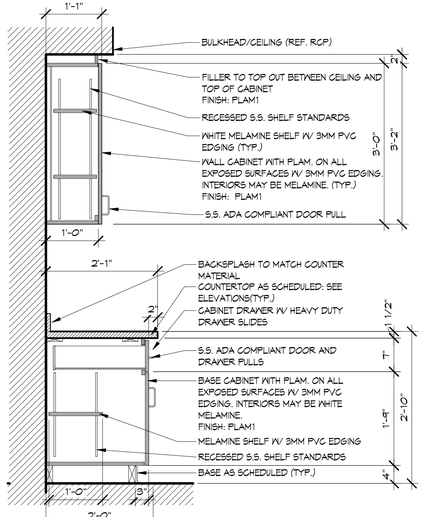
CASEWORK SECTION 9
3/4" = 1'-0"



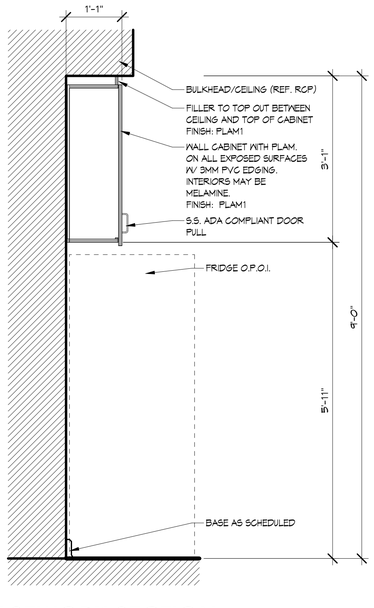
CASEWORK SECTION 8
3/4" = 1'-0"



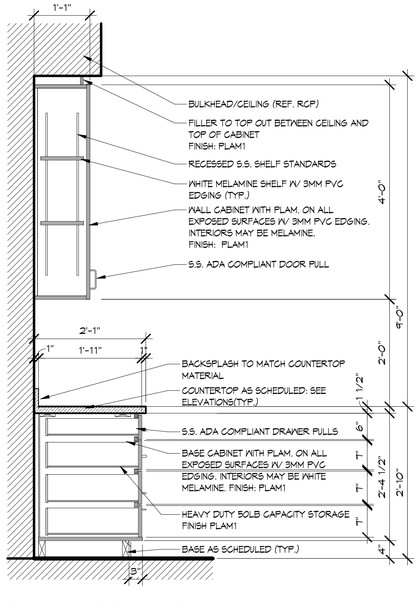
CASEWORK SECTION 7
3/4" = 1'-0"



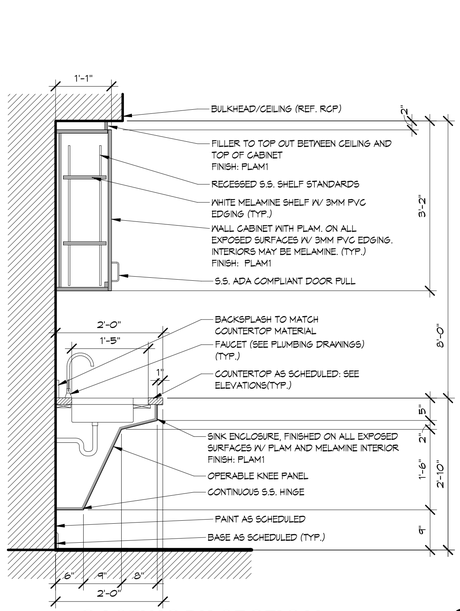
CASEWORK SECTION 6
3/4" = 1'-0"



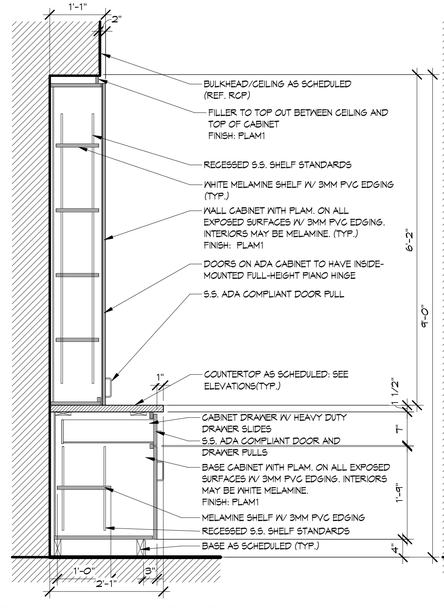
CASEWORK SECTION 5
3/4" = 1'-0"



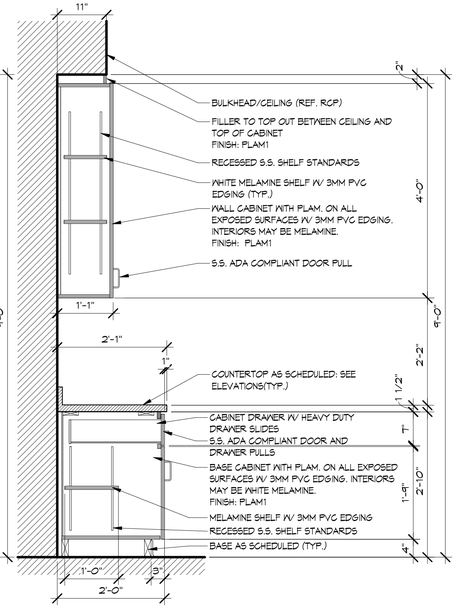
CASEWORK SECTION 4
3/4" = 1'-0"



CASEWORK SECTION 3
3/4" = 1'-0"



CASEWORK SECTION 2
3/4" = 1'-0"



CASEWORK SECTION 1
3/4" = 1'-0"

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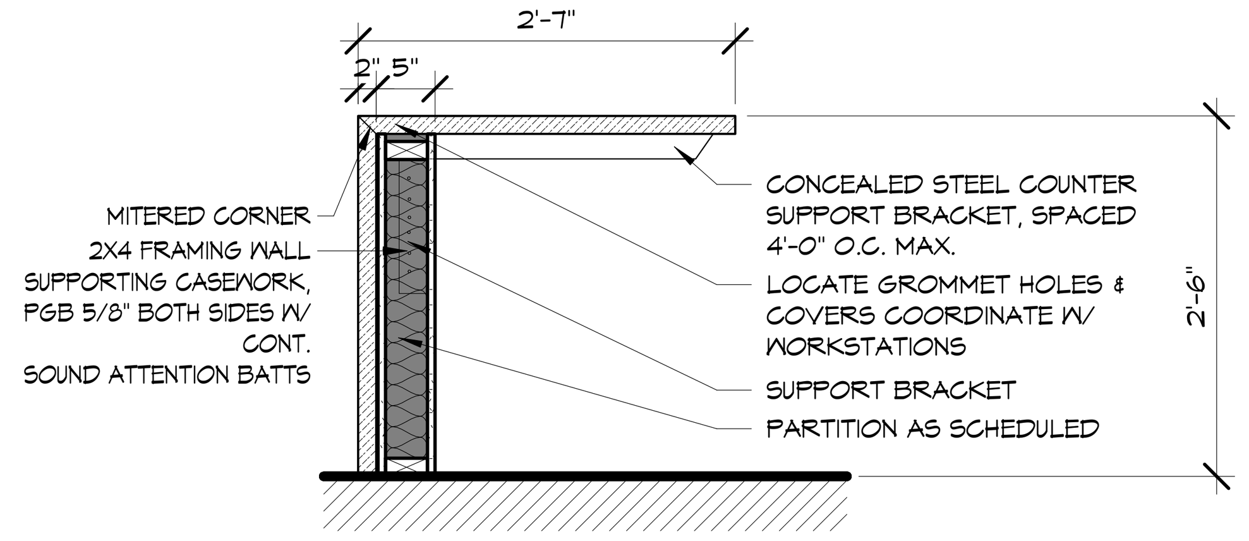
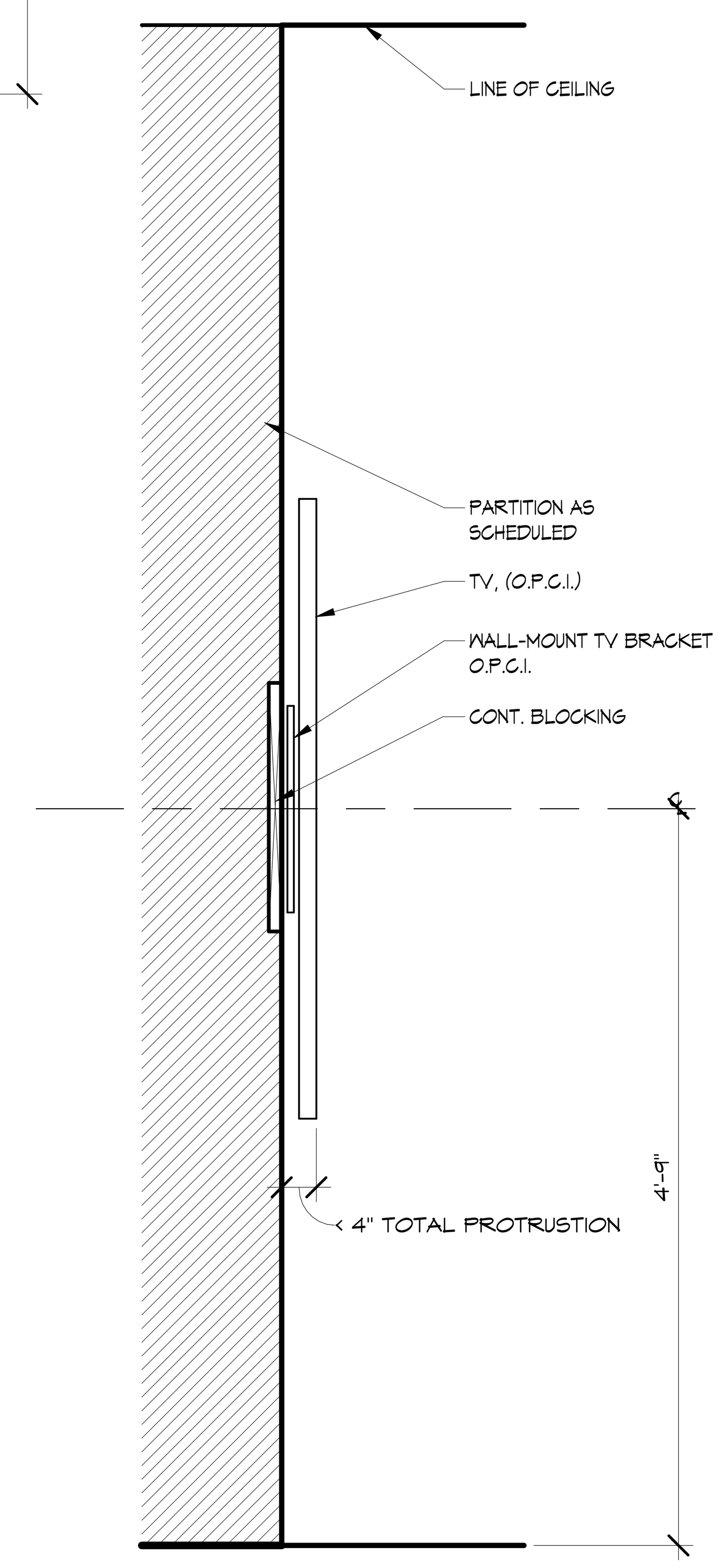
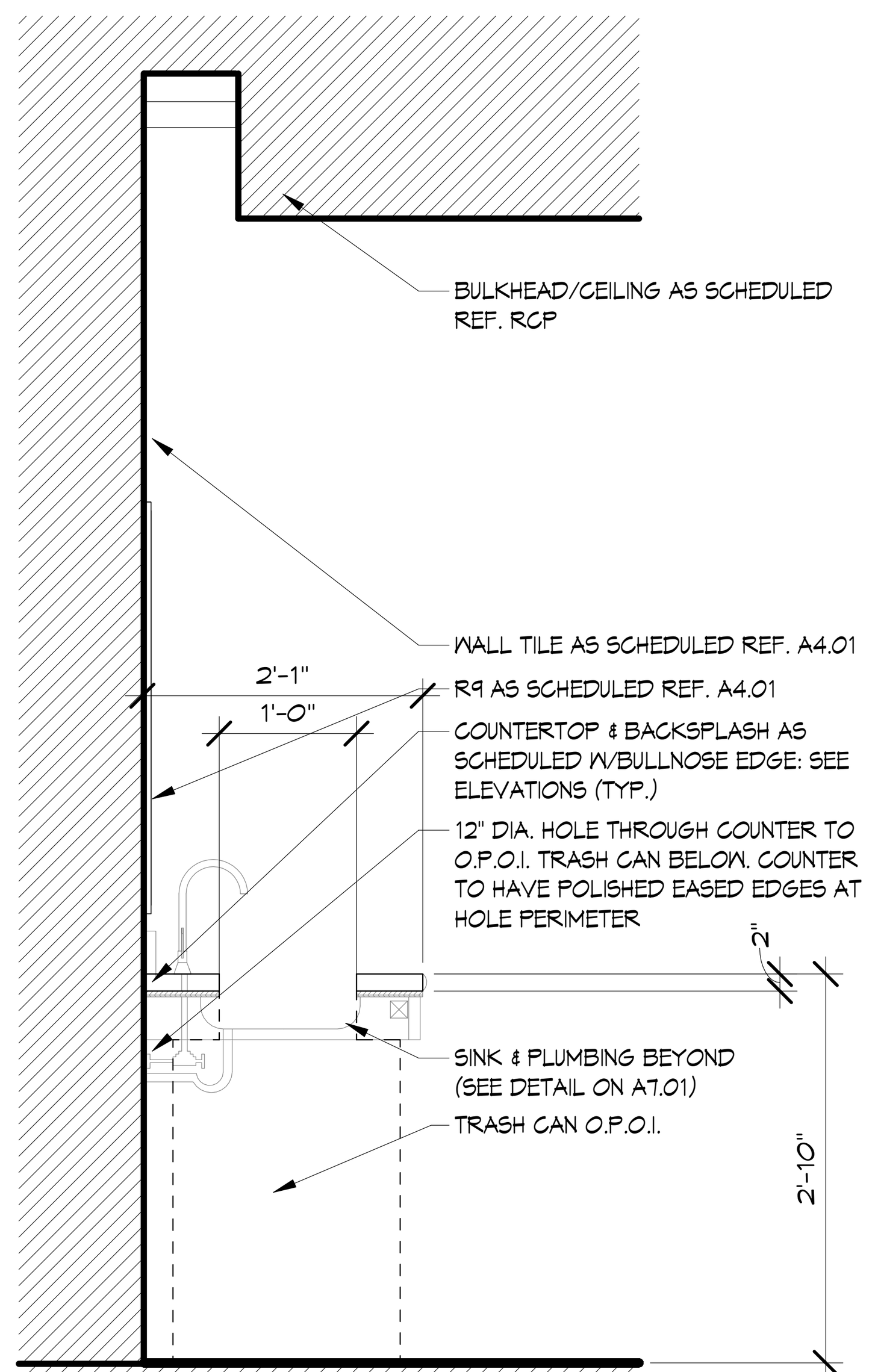
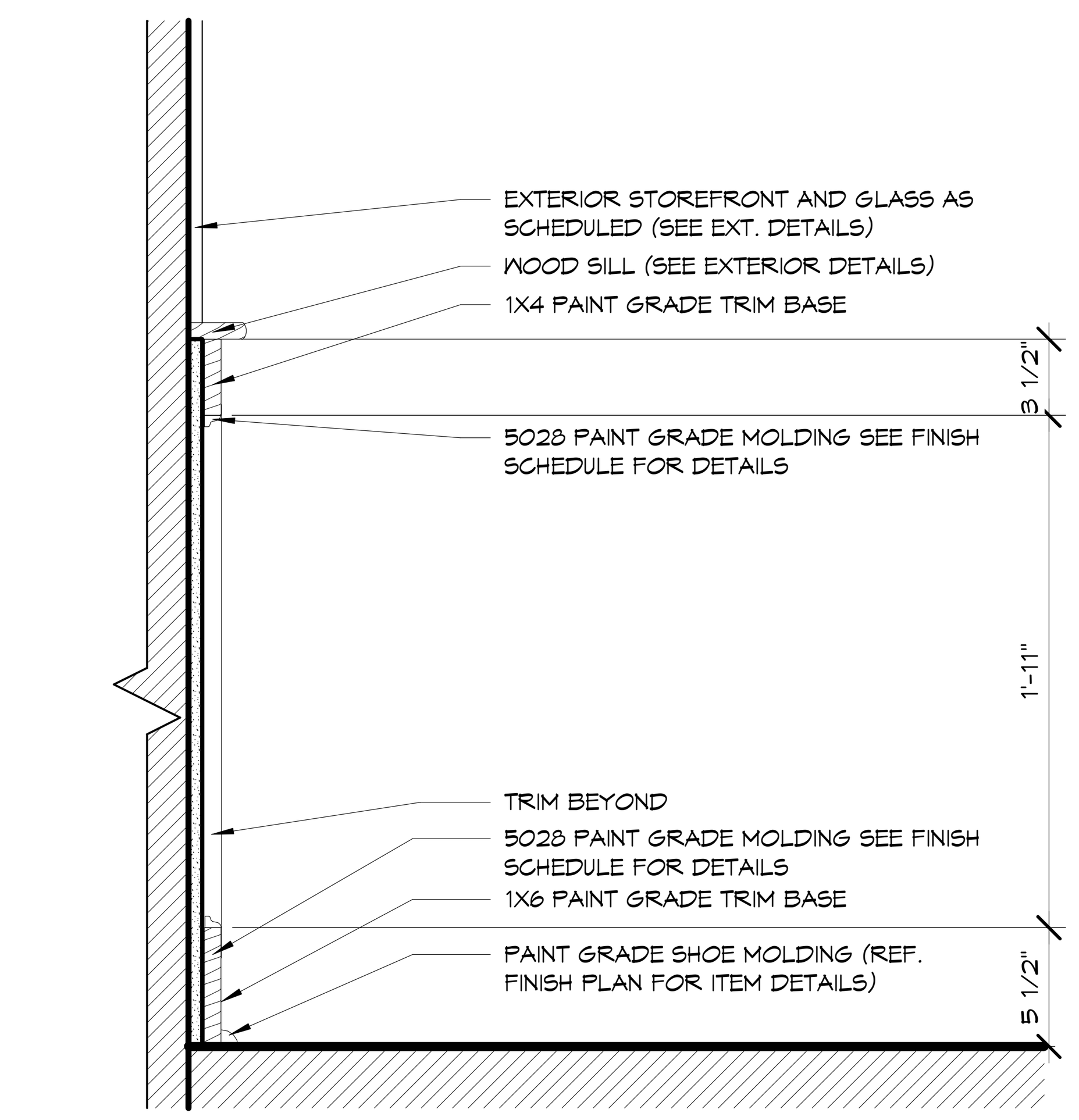
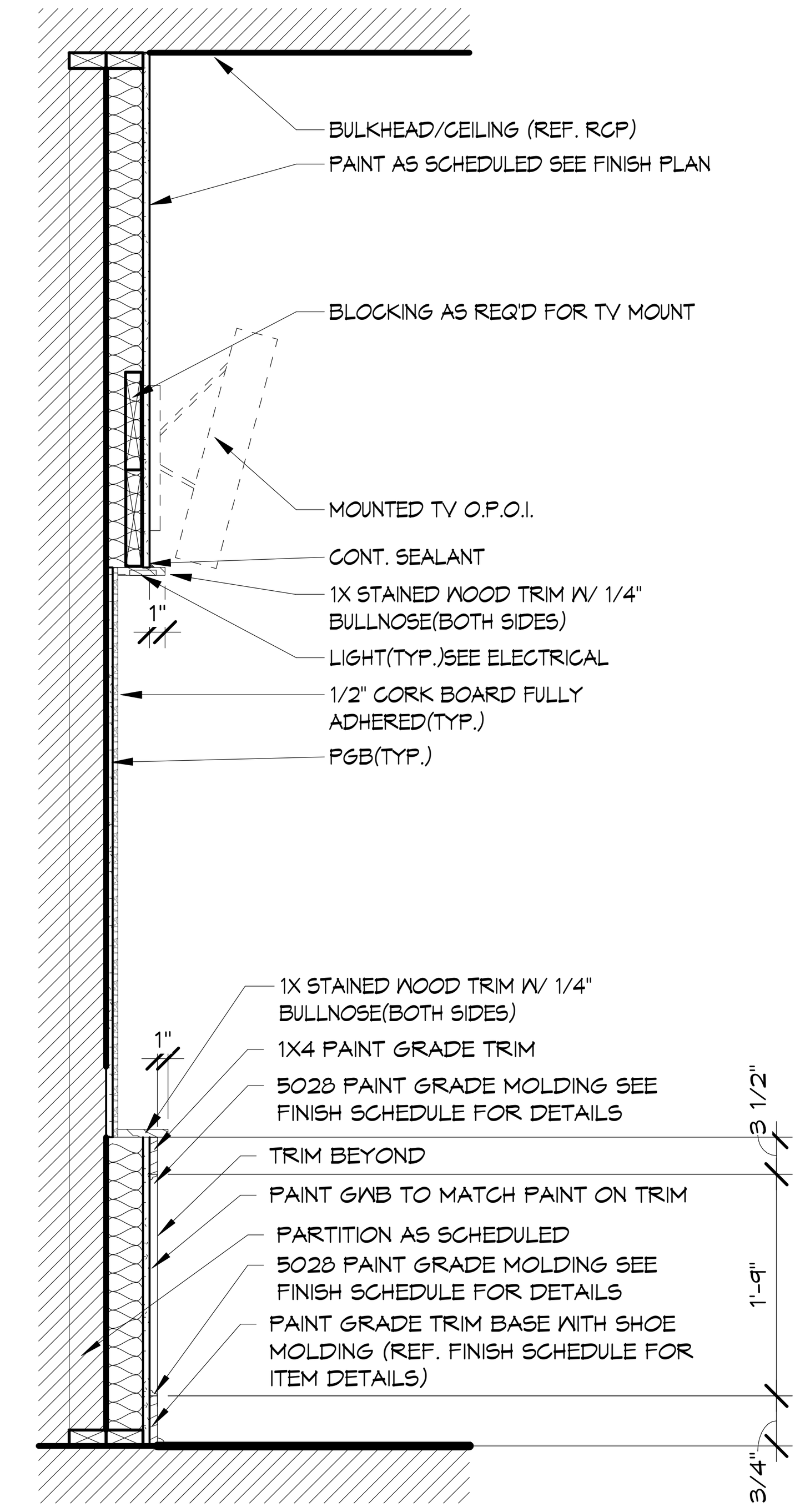


CASEWORK SECTION (10)
3/4" = 1'-0"







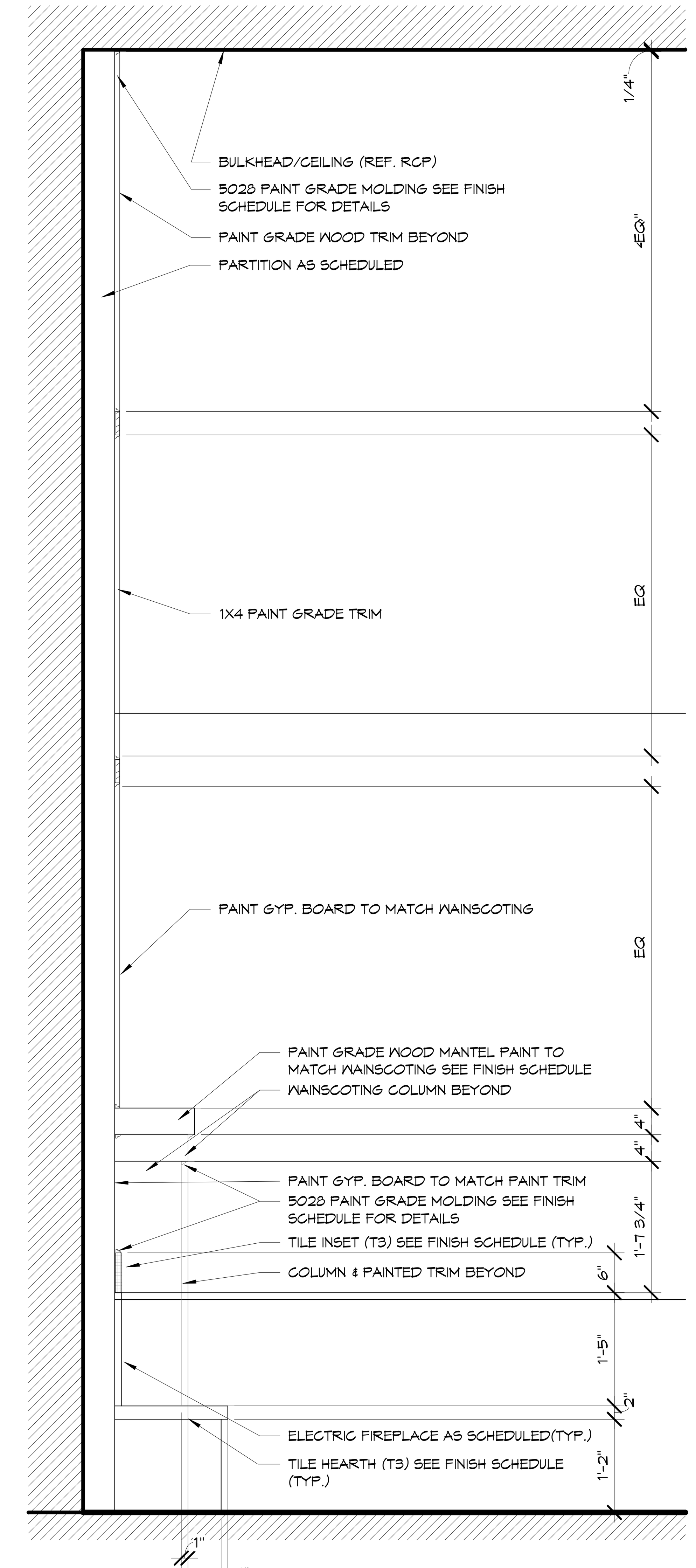


ALT #1 WAINSCOTING DETAIL (9)
1 1/2" = 1'-0"

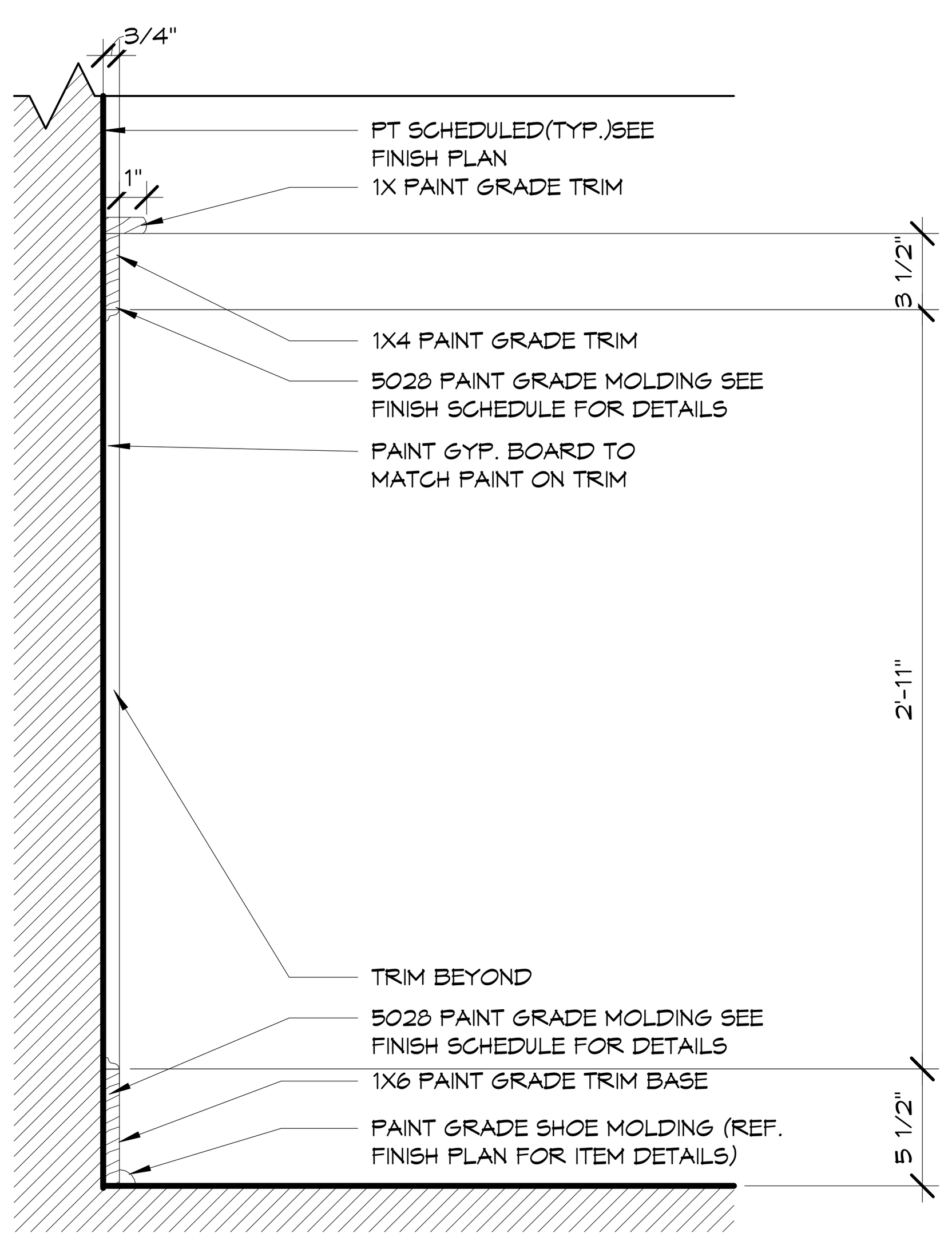
BATHROOM TRASH CAN DETAIL (8)
3/4" = 1'-0"

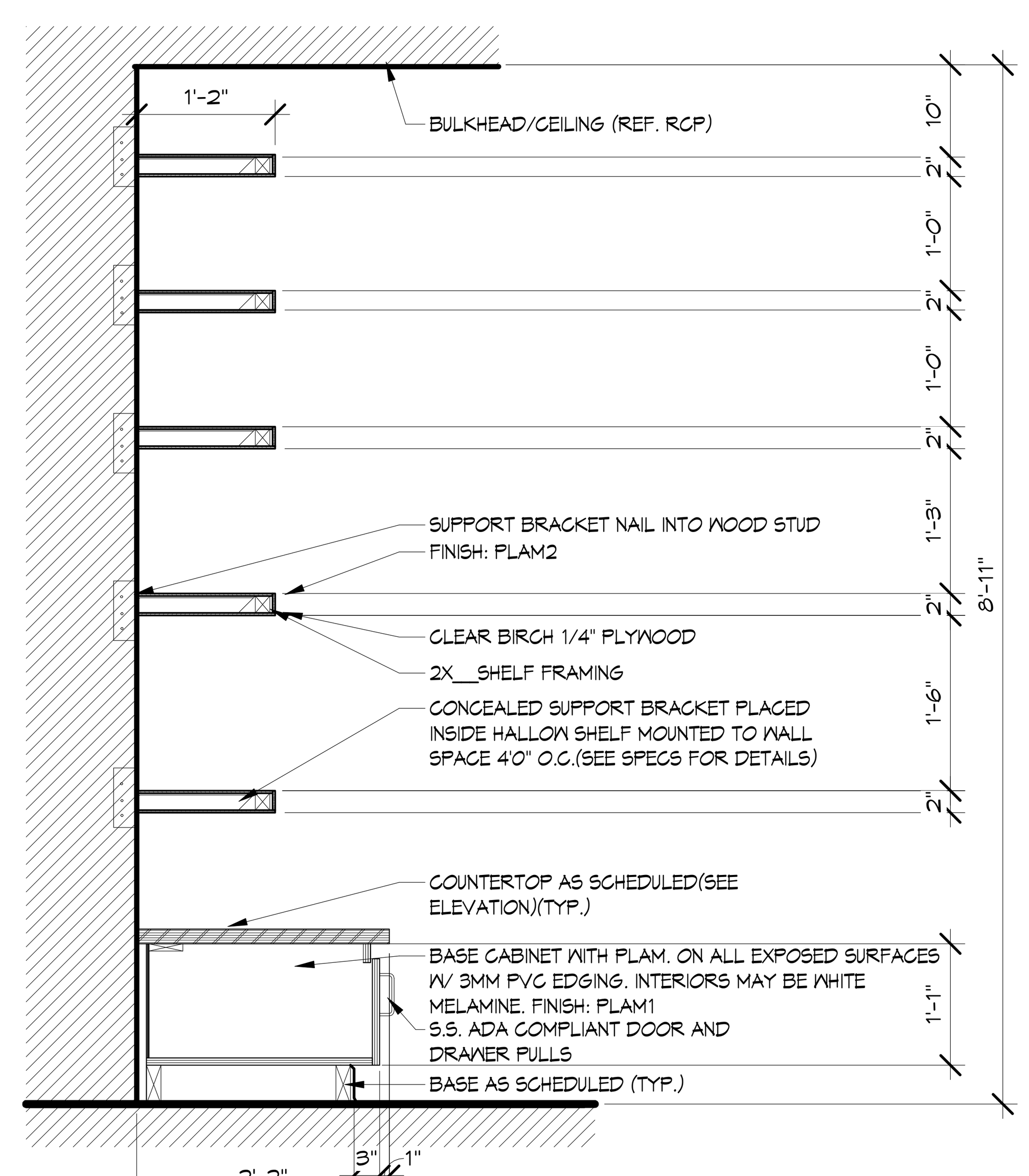
TYP. MOUNTED TV DETAIL (7)
1" = 1'-0"

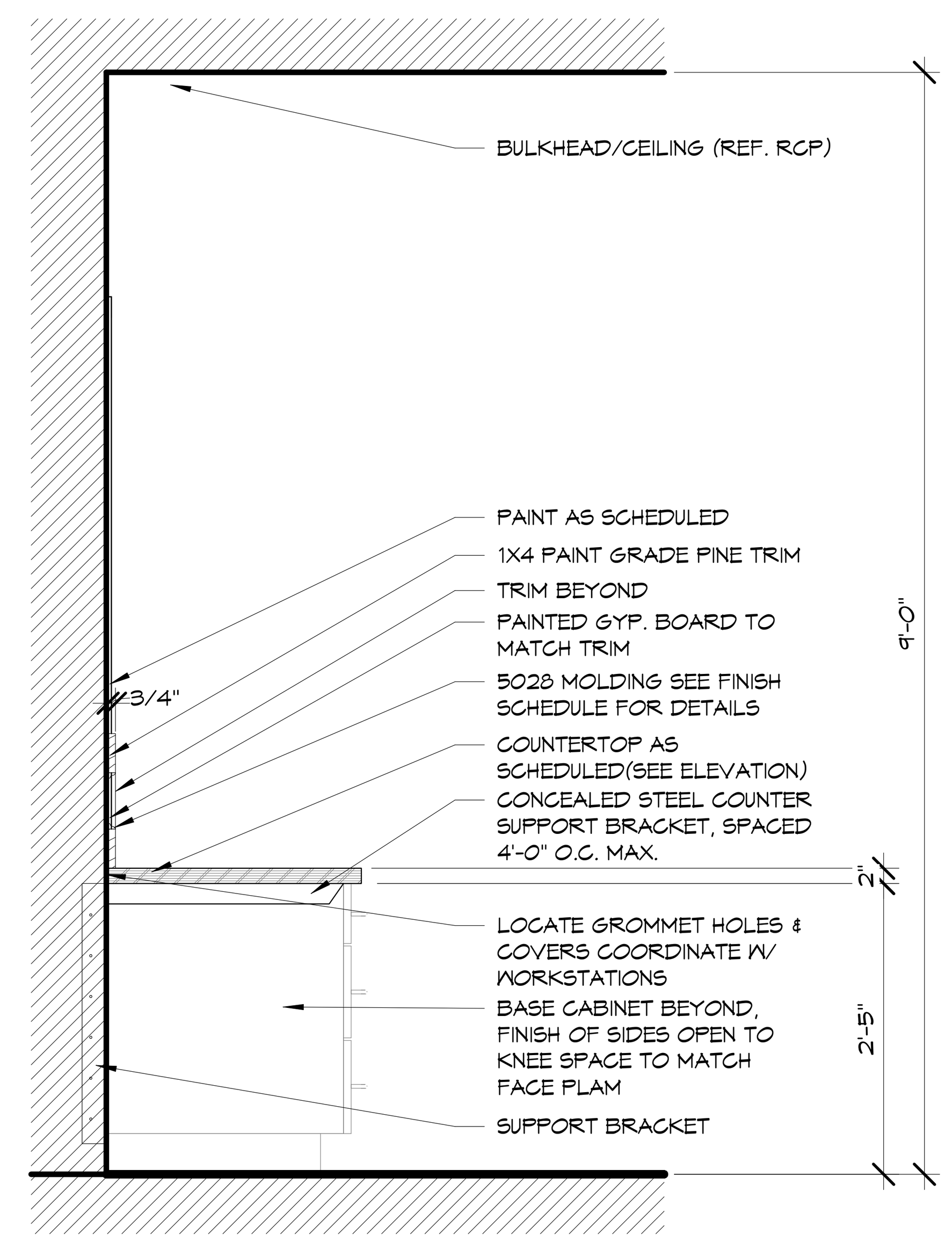
TACKBOARD & WC DETAIL (6)
3/4" = 1'-0"

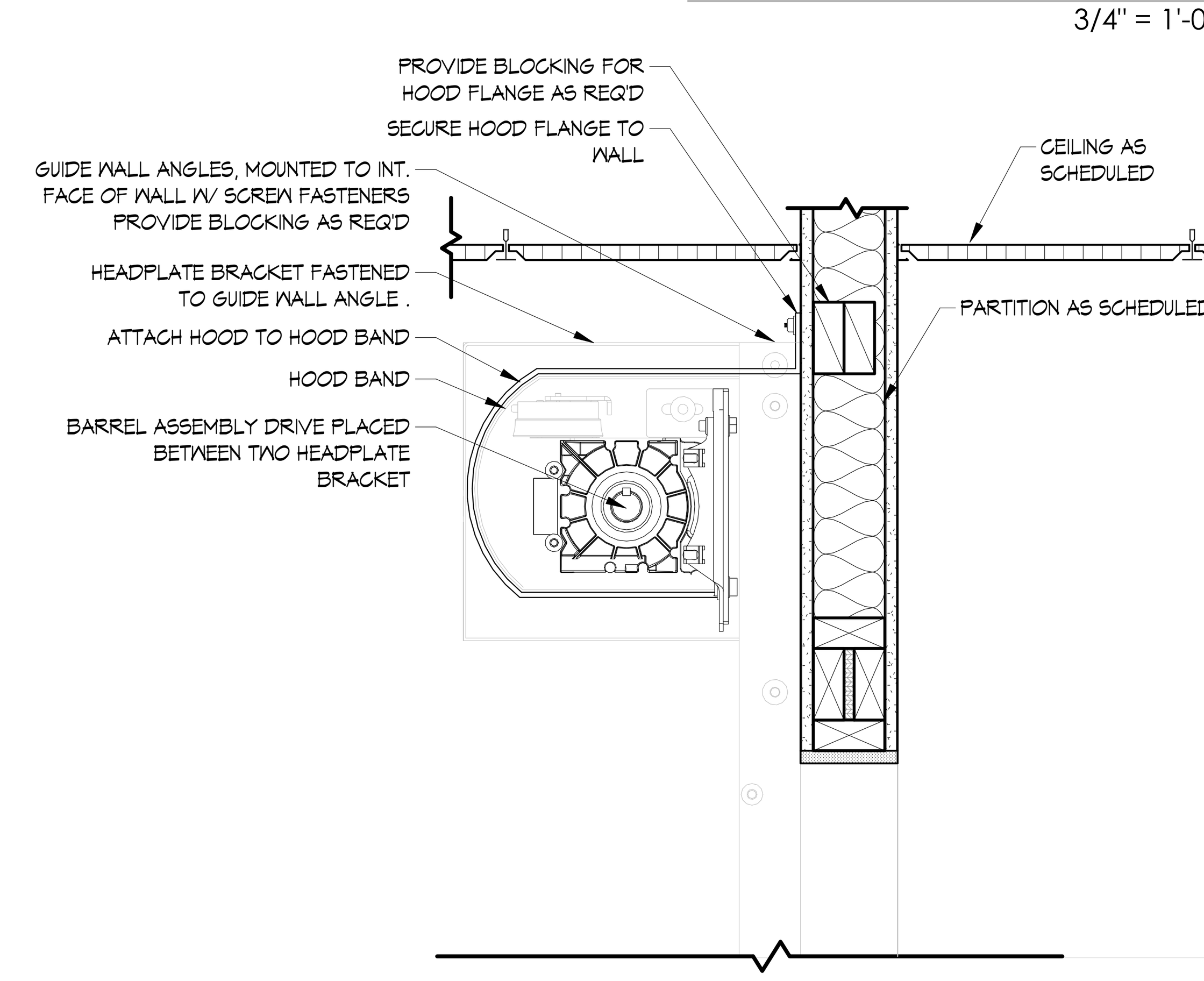


FIREPLACE SECTION (5)
3/4" = 1'-0"









ALT #1 WAINSCOTING DETAIL (4)
1 1/2" = 1'-0"

CASEWORK & SHELF SECTION (3)
3/4" = 1'-0"

CONCEALED SUPPORT BRACKET DETAIL (2)
3/4" = 1'-0"

INTERIOR COIL DOOR HEAD DETAIL (1)
1 1/2" = 1'-0"

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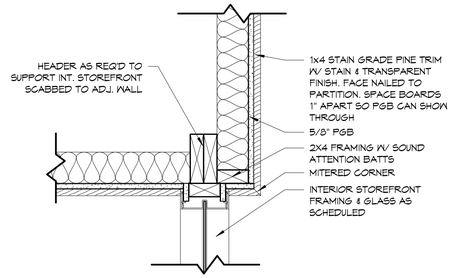
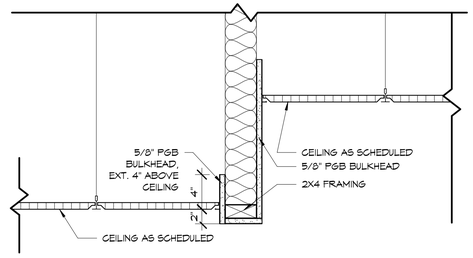
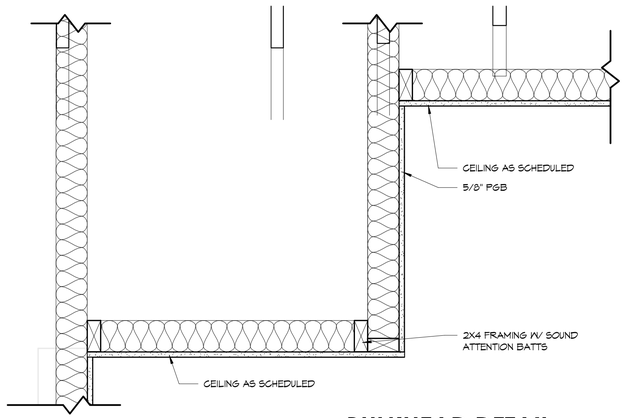


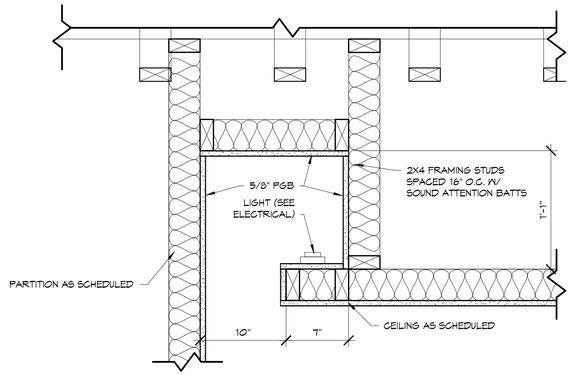
BULKHEAD DETAIL 7
1 1/2" = 1'-0"



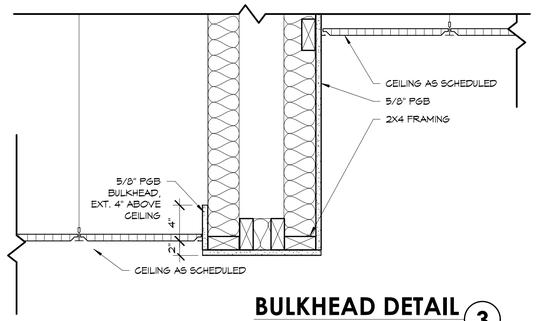
BULKHEAD DETAIL 6
1 1/2" = 1'-0"



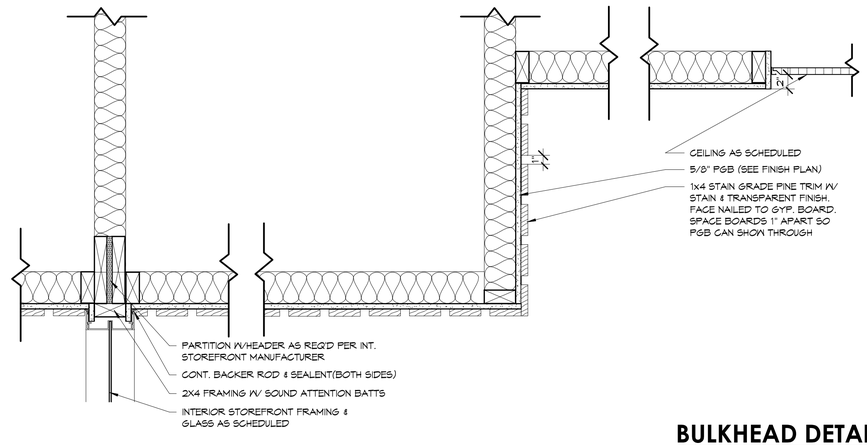
BULKHEAD DETAIL 5
1 1/2" = 1'-0"



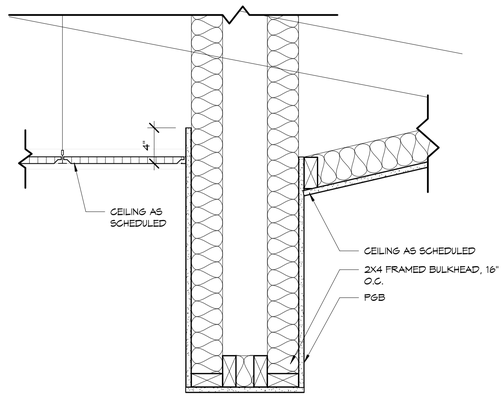
BULKHEAD DETAIL 4
1 1/2" = 1'-0"



BULKHEAD DETAIL 3
1 1/2" = 1'-0"



BULKHEAD DETAIL 2
1 1/2" = 1'-0"



BULKHEAD DETAIL 1
1 1/2" = 1'-0"

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GLAZING SCHEDULE

G1	CLEAR 1" TEMPERED INSULATED LOW-E GLASS
G2	1" INSULATED TEMPERED SPANDREL GLASS UNIT SPANDREL COATING ON SURFACE 3 OF IGU.
G3	1/4" CLEAR TEMPERED GLASS
G4	1/4" CLEAR TEMPERED GLASS FACTORY FROSTED

DOOR/OPENINGS GENERAL NOTES:

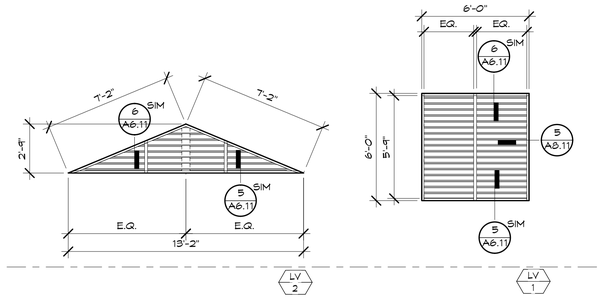
1. GC TO FIELD VERIFY ALL OPENINGS PRIOR TO FRAME ORDERING AND FABRICATION.
2. BASIS OF DESIGN FOR EXTERIOR STOREFRONT IN PUNCHED OPENINGS IS YKK MODEL YES 45XT 2"X4.5"
3. BASIS-OF-DESIGN FOR ALL OTHER STOREFRONT IS YKK MODEL YES 45XT 2"X6".
4. BASIS OF DESIGN FOR HOLLOW METAL INTERIOR FRAME MULLIONS ARE 2" SIGHTLINES, U.N.O.
7. LIGHTS IN INTERIOR DOORS TO BE G3 U.N.O.
8. "SF#" TAGS INDICATES EXTERIOR STOREFRONT FRAMES - REFER TO PLANS FOR LOCATIONS, FRAME ELEVATIONS FOR DIMENSIONS, GLAZING TAGS, ETC.
9. WOOD VENEER FOR SOLID WOOD CORE DOORS SHALL BE AAA PREMIUM GRADE. SPECIES SHALL BE WHITE BIRCH U.N.O.
10. DOOR ASSEMBLIES TO COMPLY WITH REQ'D FIRE RATINGS

ABBREVIATIONS:

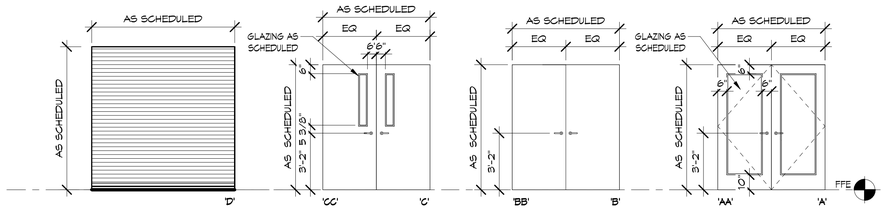
D.O. DOOR OPENING
R.O. ROUGH OPENING

LOUVER SCHEDULE

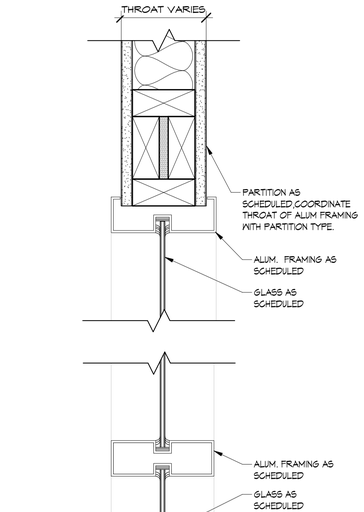
TYPE/ TAG	DIMENSION	MATERIAL	FINISH	FREE AREA		DETAILS			REMARKS
				ACTUAL* SF	MIN REQ'D	HEAD	SILL	JAMB	
LV1	6'-0" X 6'-0"	ALUM	PT	36 SF	11 SF	5/A6.11	6/A6.11	2/A8.11	SEE ELEVATION FOR SILL HEIGHT
LV2	2'-9" H X 13'-2" L	ALUM	PT	18.1 SF	4.3 SF	5/A6.11	6/A6.11	2/A8.11	SEE ELEVATION FOR SILL HEIGHT



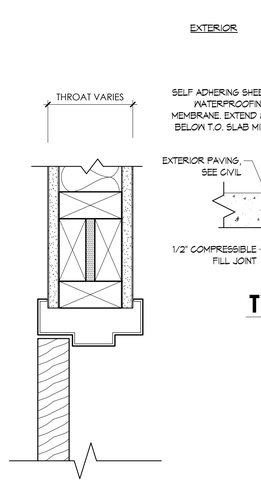
LOUVER FRAME TYPES 6
1/4" = 1'-0"



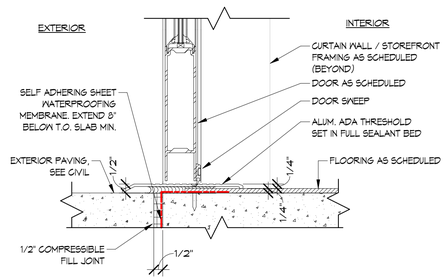
DOOR TYPES 5
1/4" = 1'-0"



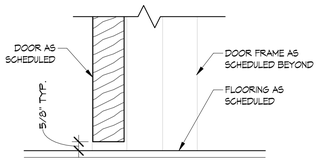
TYP INTERIOR SF FRAMING 4
3" = 1'-0"



TYP. INT. HEAD/JAMB DETAIL 2
3" = 1'-0"



TYP. EXT. DOOR SILL DETAIL 3
3" = 1'-0"



TYP. INT. SILL DETAIL 1
3" = 1'-0"

HARDWARE GENERAL NOTES:

1. HARDWARE SHALL COMPLY WITH ALL ACCESSIBILITY REQUIREMENTS PER ANSI A117.1 AND THE CURRENT NCBC.
2. ALL EXTERIOR DOORS SHALL HAVE ADA COMPLIANT THRESHOLDS AND WEATHER-STRIPPING.
3. ALL HARDWARE SHALL BE COORDINATED WITH CLUB STANDARDS.
5. DOOR ASSEMBLY & HARDWARE SHALL COMPLY WITH REQUIRED RATINGS AS INDICATED.
6. OWNER TO APPROVE ALL HARDWARE AND KEYING & FUNCTION PRIOR TO ORDERING. GC TO COORDINATE KEYING MEETING.

DOOR SCHEDULE

DOOR NO.	SIZE			DOOR			FRAME ELEVATION	FRAME					FIRE RATING	HARDWARE SET	REMARKS
										DETAILS					
	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	FINISH		FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL			
100A	6'-0"	7'-0"	1 3/4"	AA	AL	ANOD	SF13	AL	ANOD	8/A6.12	9/A6.02	6/A6.12, 7/A6.12	N/A	4	APPLIED FROSTED DECAL STATING "DUPLIN COUNTY SENIOR SERVICES"
100B	6'-0"	7'-0"	1 3/4"	AA	SNG	ST	15F2	AL	ANOD	4/A8.01	9/A6.02	1/A8.01, 4/A8.01	N/A	7	
100C	6'-0"	7'-0"	1 3/4"	AA	AL	ANOD	SF11	AL	ANOD	2/A6.11	2/A6.01	3/A8.01	N/A	4	
100E	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF8	AL	ANOD	3/A6.11	4/A6.01	6/A6.12, 7/A6.12	N/A	6A	
100F	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF9	AL	ANOD	2/A6.11	2/A6.01	6/A6.12, 3/A8.01	N/A	6	
101	3'-0"	7'-0"	1 3/4"	A	SNG	ST	15F1	AL	ANOD	4/A8.01	3/A8.11	1/A8.01, 4/A8.01	N/A	10	
102A	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF10	AL	ANOD	3/A6.11	2/A6.01, 3/A6.01	6/A6.12, 3/A8.01	N/A	6	
102B	6'-0"	7'-0"	1 3/4"	BB	SNG	ST	F3	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	13	
102C	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF1	AL	ANOD	2/A6.11	2/A6.01, 3/A6.01	3/A8.01	N/A	6	
102D	6'-0"	7'-0"	1 3/4"	CC	SNG	ST	F3	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	9	
103	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	5	
104	6'-0"	7'-0"	1 3/4"	BB	SNG	ST	F3	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	13	
105	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	5	
106	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
106A	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	2	
106B	3'-0"	7'-0"	0"	-	-	-	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	-	CASED OPENING ONLY
107	3'-0"	7'-0"	1 3/4"	A	SNG	ST	15F5	AL	ANOD	4/A8.01	2/A8.11, 4/A8.11	1/A8.01, 4/A8.01	N/A	10	
107A	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3	
107B	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF14	AL	ANOD	2/A6.11	2/A6.01	6/A6.12, 3/A8.01	N/A	6	
108	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3A	
109	3'-0"	7'-0"	1 3/4"	A	SNG	ST	15F6	AL	ANOD	4/A8.01	2/A8.11	1/A8.01, 4/A8.01	N/A	10	
110	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3	
111	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3	
112	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3	
113	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	30 MIN.	11	
114A	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF7	AL	ANOD	2/A6.11	4/A6.01	3/A8.01	N/A	6A	
114B	8'-0"	8'-0"	1/4"	D	AL	ANOD	GD2	STEEL	PT	9/A8.11	4/A6.01	3/A6.12	N/A	N/A	OVERHEAD COIL DOOR, PROVIDE WEATHER STRIPPING/SEAL
114C	6'-0"	7'-0"	1 3/4"	CC	SNG	ST	F3	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	9	
115	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	11	
116A	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
116B	8'-0"	8'-0"	1/4"	D	AL	ANOD	GD1	STEEL	PT	7/A7.11	16/A8.11		N/A	N/A	OVERHEAD COIL DOOR
117	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	2	
118	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	2	
119	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
120	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
122	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
124	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
126	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
128	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
130	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
130A	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF10	AL	ANOD	3/A6.11	2/A6.01, 3/A6.01	6/A6.12, 3/A8.01	N/A	12	APPLIED FROSTED DECAL STATING "DUPLIN COUNTY VETERAN SERVICES"
130B	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF8	AL	ANOD	3/A6.11	2/A6.01	6/A6.12, 3/A8.01	N/A	6	
130C	3'-0"	7'-0"	1 3/4"	A	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
131	3'-0"	7'-0"	1 3/4"	A	SNG	ST	15F4	AL	ANOD	6/A8.11	4/A8.11, 3/A8.11	1/A8.01, 4/A8.01	N/A	2	
132	6'-0"	7'-0"	1 3/4"	BB	HM	PT	F1	HM	PT	7/A8.11	7/A8.11	10/A8.01	N/A	8	
132A	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3A	
132B	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3A	
132C	3'-0"	7'-0"	0"	-	-	-	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	-	CASED OPENING ONLY
133	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	5	
134	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
135	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
136	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	11	
137	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
138	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
139	3'-0"	7'-0"	1 3/4"	C	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	1	
201	3'-0"	7'-0"	1 3/4"	B	SNG	ST	F2	HM	PT	2/A8.01	2/A8.01	1/A8.01	N/A	3A	

HARDWARE SCHEDULE

SET #1: SINGLE DOOR CLASSROOM FUNCTION SET
DOORS: 106, 116A, 118, 120, 122, 124, 126, 128, 130, 130C, 134, 135, 137, 138, 139

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 CYL LOCK	551PSAT626	SCHLAGE
3 SILENCER	SR64-GRY	IVES
2 KICKPLATE	840015630-ALUM	SCHLAGE
1 WALL STOP	35-9004-1011-00-31-50	YALE

SET #2: SINGLE DOOR CLASSROOM FUNCTION SET
DOORS: 106A, 117, 119, 131

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 CYL LOCK	551PSAT626	SCHLAGE
3 SILENCER	SR64-GRY	IVES
2 KICKPLATE	840015630-ALUM	SCHLAGE
1 FLOOR STOP	35-9004-1001-00-31-50	YALE

SET #3: SINGLE DOOR STORAGE FUNCTION SET
DOORS: 107, 107A, 110, 111, 112, 132

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 CYL LOCK	551PSAT626	SCHLAGE
3 SILENCER	SR64-GRY	IVES
2 KICKPLATE	840015630-ALUM	SCHLAGE
1 WALL STOP	35-9004-1011-00-31-50	YALE

SET #3A: SINGLE DOOR STORAGE FUNCTION W/ CARD READER SET
DOORS: 108, 132A, 132B, 201

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 CYL LOCK	551PSAT626	SCHLAGE
3 SILENCER	SR64-GRY	IVES
2 KICKPLATE	840015630-ALUM	SCHLAGE
1 WALL STOP	35-9004-1011-00-31-50	YALE
1 PROX READER	TDS1014-US-BLACK	PAXTON
1 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON

SET #4: DOUBLE DOOR EXTERIOR W/ PANIC HARDWARE, HANDICAPPED OPERATOR, & CARD READER
DOORS: 100A, 100G

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
2 CONT. HINGES	A240HDC-TW8-83	ABH
2 RIM EXIT DEVICE		
2 MORTISE CYLINDER	L9071626	SCHLAGE
2 CLOSER		LCN
1 KEYED REMOVABLE MULLION		ABH
1 PROX READER (NACTIVE LEAF)	TDS1014-US-BLACK	PAXTON
2 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON
2 REMOTE ACCESS CONTROLL PUSH BUTTON	D15-2-WHITE	SDC
1 HANDICAPPED OPERATOR (ACTIVE LEAF)		
2 WEATHER STRIPPING		
1 THRESHOLD (SEE DNG)		

SET #5: SINGLE DOOR PUSH/PULL SET
DOORS: 103, 105, 133

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 DOOR PULL	8102HD-0 US26D	IVES
1 PUSH PLATE	8200 3.5"X15" US26D	SCHLAGE
2 KICKPLATE	840015630-ALUM	IVES
3 SILENCER	SR64-GRY	YALE
1 WALL STOP	35-9004-1011-00-31-50	SDC
2 REMOTE ACCESS CONTROL PUSH BUTTON	D15-2-WHITE	
1 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON
1 HANDICAP OPERATOR		
1 CLOSER		LCN

SET #6: SINGLE DOOR EXTERIOR STOREFRONT W/ PANIC HARDWARE SET
DOORS: 100F, 102A, 102C, 107B, 130B

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
1 CONT. HINGES	A240HDC-TW8-83	ABH
1 RIM EXIT DEVICE		
1 MORTISE CYLINDER	L9071626	SCHLAGE
1 CLOSER		LCN
1 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON

SET #9A: SINGLE DOOR EXTERIOR STOREFRONT W/ CARD READER & PANIC HARDWARE SET
DOORS: 100E, 114A

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
1 CONT. HINGES	A240HDC-TW8-83	ABH
1 RIM EXIT DEVICE		
1 MORTISE CYLINDER	L9071626	SCHLAGE
1 CLOSER		LCN
1 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON
1 CARD READER		

SET #7: DOUBLE DOOR PASSAGE W/ HANDICAPPED OPPERATOR & PANIC HARDWARE SET
DOOR: 100B

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
2 CONT. HINGES	A240HDC-TW8-83	ABH
2 RIM EXIT DEVICE		SCHLAGE
1 DOOR PULL	8102HD-0 US26D	IVES
1 PUSH PLATE	8200 3.5"X15" US26D	IVES
2 CLOSER		LCN
1 POWER SUPPLY	NET 2 682-610-US-WHITE	PAXTON
2 REMOTE ACCESS CONTROLL PUSH BUTTON	D15-2-WHITE	
1 HANDICAPPED OPERATOR		
2 WEATHER STRIPPING		
1 THRESHOLD		
1 KEYED REMOVABLE MULLION		SCHLAGE
1 MORTISE LOCK FOR KRM		SCHLAGE

SET #8: DOUBLE EXTERIOR W/ STORAGE FUNCTION SET
DOORS: 132

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
2 CONT. HINGES	A240HDC-TW8-83	ABH
2 CYL LOCK	551PSAT626	SCHLAGE
1 CLOSER	L9071626	LCN
1 KEYED REMOVABLE MULLION		SCHLAGE
1 MORTISE LOCK FOR KRM		SCHLAGE

SET #9: DOUBLE DOOR CLASSROOM FUNCTION SET
DOORS: 102D, 114C

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
6 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
2 CYL LOCK	551PSAT626	SCHLAGE
6 SILENCER	SR64-GRY	IVES
4 KICKPLATE	840015630-ALUM	SCHLAGE
2 FLOOR STOP	35-9004-1001-00-31-50	YALE
1 KEYED REMOVABLE MULLION		SCHLAGE
1 MORTISE LOCK FOR KRM		SCHLAGE

SET #10: SINGLE DOOR CLASSROOM FUNCTION SET
DOORS: 101, 107, 109

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 RIM EXIT DEVICE		
1 CYL LOCK	551PSAT626	SCHLAGE
1 WALL STOP	35-9004-1011-00-31-50	YALE
2 KICKPLATE		
3 SILENCER		

SET #11: SINGLE DOOR PRIVACY SET
DOORS: 113, 115, 136

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
3 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 RIM EXIT DEVICE	T561-D-DANE-626	FALCON
1 CYL LOCK	551PSAT626	SCHLAGE
1 CLOSER	8400 B X34 630	LCN
1 FLOOR STOP	35-9004-1001-00-31-50	YALE

SET #13: DOUBLE STORAGE FUNCTION SET
DOORS: 102B, 104

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
6 HEAVY DUTY HINGES	53P1020FRP625 4"X4"	SCHLAGE
1 CYL LOCK	F51AACC626	SCHLAGE
2 WALL STOP		
4 KICKPLATE		
6 SILENCER		SCHLAGE
1 KEYED REMOVABLE MULLION		SCHLAGE
1 MORTISE LOCK FOR KRM		

SET #14 MISC ACCESSORIES

QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.
		PAXTON
40 KEY CARD/FOBS	692-500-US	PAXTON
2 DESKTOP READER	214-326-US BLACK	

SET #12: SINGLE DOOR W/ HANDICAPPED OPERATOR, PANIC HARDWARE, & CARD READER
DOORS: 130A

QUANTITY & DESCRIPTION
REF SET 4 EXCEPT MODIFIED FOR A SINGLE DOOR

INTREPID ARCHITECTURE
114 E. 3RD STREET; GREENVILLE, NC 27858
p:1.252.270.5330
www.INTREPIDarchitecture.com

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11208
NORTH CAROLINA
GREENVILLE, NC
07/21/23

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO/DJH
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

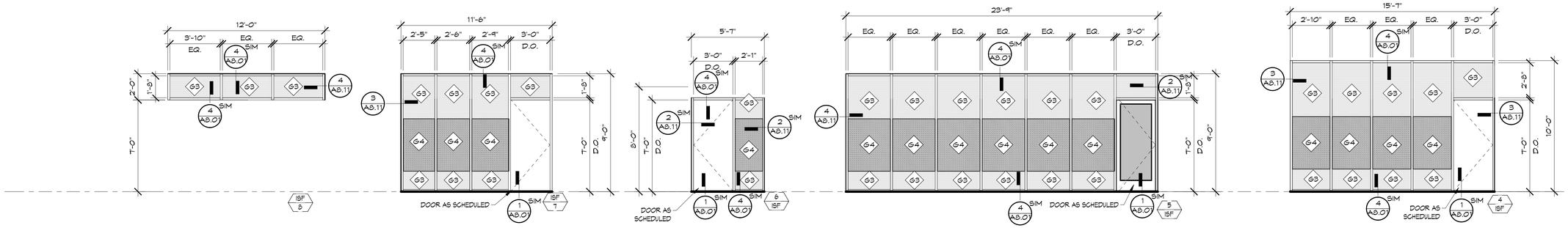
SHEET NAME & NUMBER

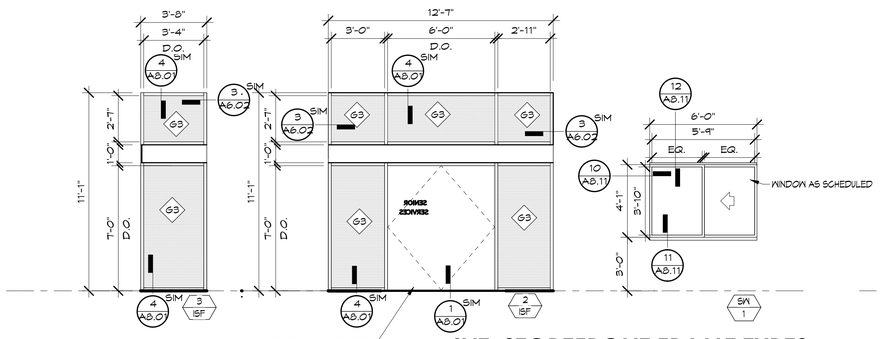
OPENING SCHEDULE, WINDOW SCHEDULE, HARDWARE TYP.

A8.01

GENERAL NOTES

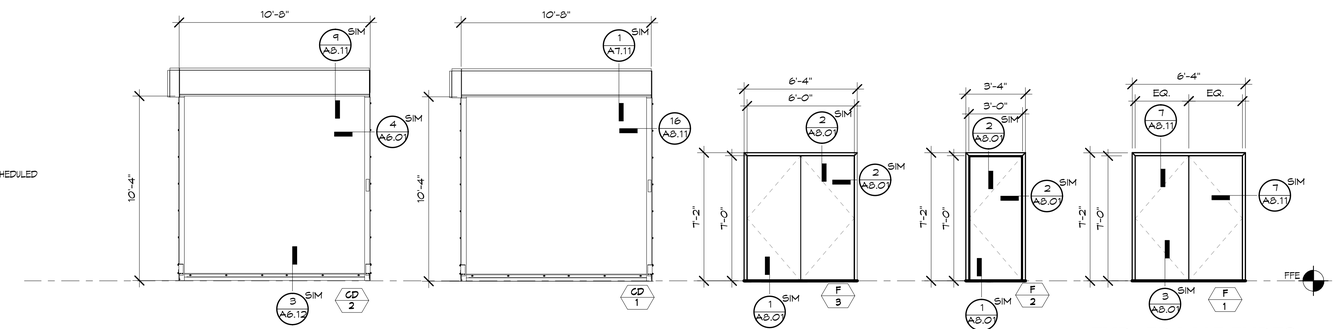
1. ALL SF FRAMES TO BE ANODIZED ALUMINUM, UNO
2. ALL GLASS TYPES ARE NOTED ON ELEVATIONS
3. REFER TO FLOOR PLAN FOR TAGGED LOCATIONS OF FRAMES.





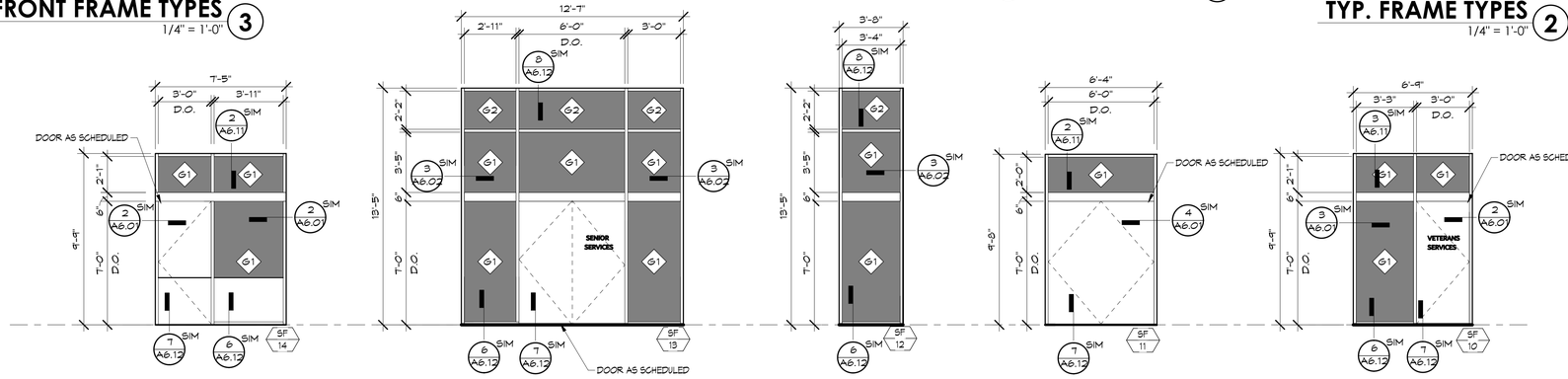
INT. STOREFRONT FRAME TYPES 3

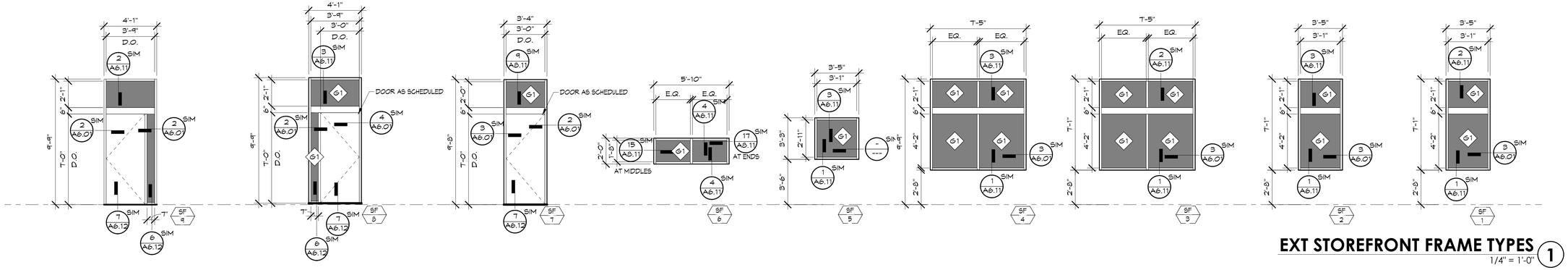
1/4" = 1'-0"



TYP. FRAME TYPES 2

1/4" = 1'-0"





EXT STOREFRONT FRAME TYPES 1

1/4" = 1'-0"

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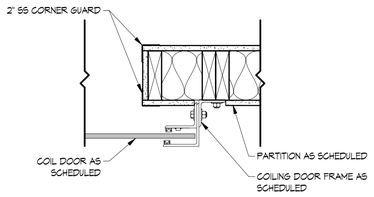
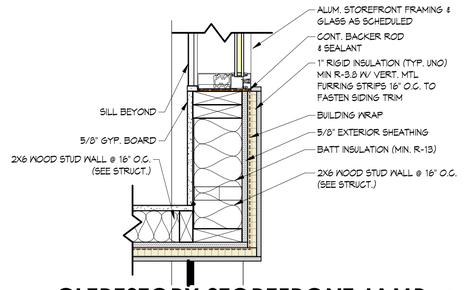
DOOR TYPES & FRAME ELEVATION

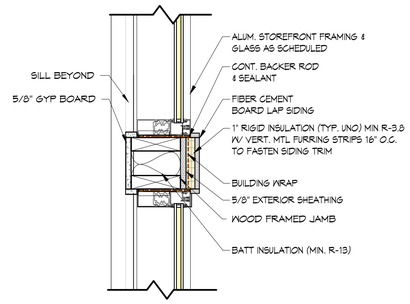
A8.02



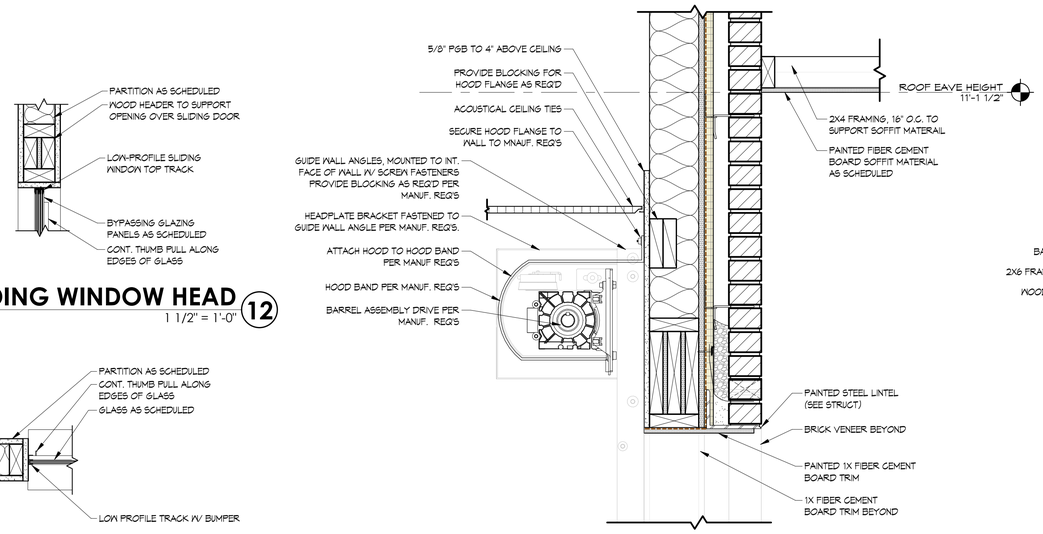
INT. COIL DOOR FRAME DETAIL 16
1 1/2" = 1'-0"



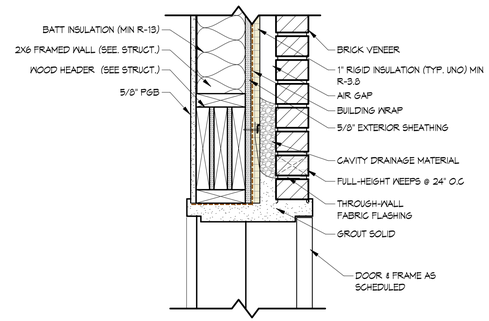
CLERESTORY STOREFRONT JAMB 17
1 1/2" = 1'-0"



CLERESTORY STOREFRONT JAMB DETAIL 15
1 1/2" = 1'-0"

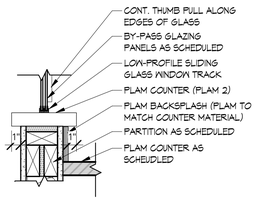


EXTERIOR COIL DOOR HEAD DETAIL 9
1 1/2" = 1'-0"

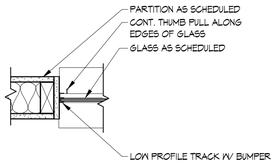


TYP. EXT. HEAD/JAMB DETAIL 7
1 1/2" = 1'-0"

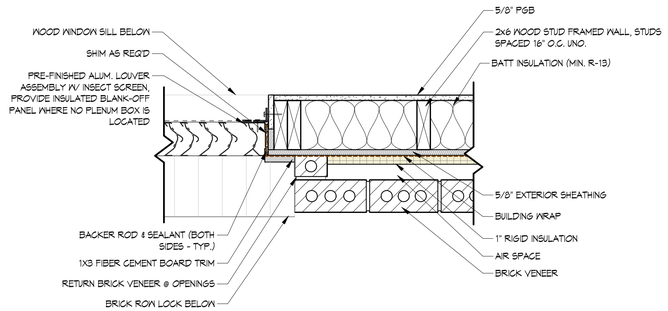
SLIDING WINDOW HEAD 12
1 1/2" = 1'-0"



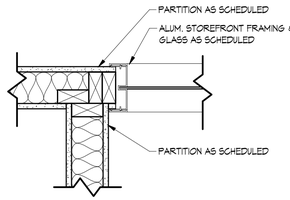
SLIDING WINDOW SILL 11
1 1/2" = 1'-0"



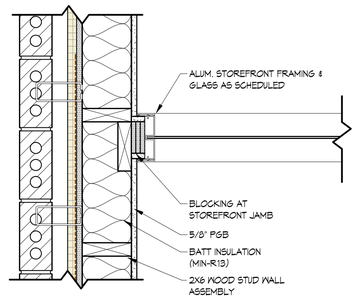
SLIDING WINDOW JAMB 10
1 1/2" = 1'-0"



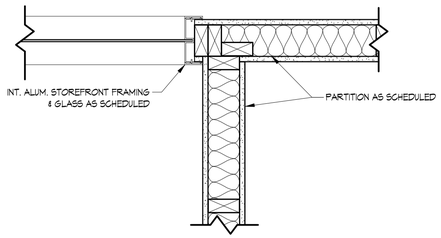
LOUVER JAMB DETAIL 5
1 1/2" = 1'-0"



INT. STOREFRONT DETAIL 4
1 1/2" = 1'-0"



INT. STOREFRONT DETAIL 3
1 1/2" = 1'-0"



INT. STOREFRONT DETAIL 2
1 1/2" = 1'-0"

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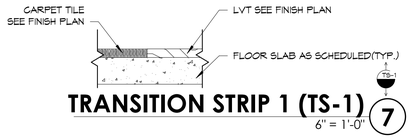
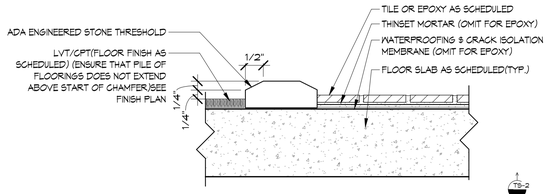
FRAME DETAILS

A8.11



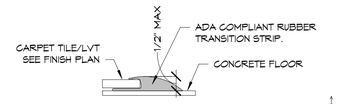
TRANSITION STRIP 1 (TS-1) 7

6" = 1'-0"



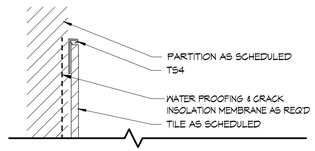
TRANSITION STRIP 2 (TS-2) 1

6" = 1'-0"



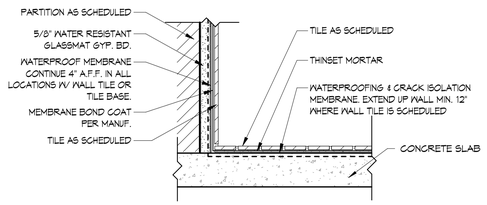
TRANSITION STRIP3 (TS-3) 2

6" = 1'-0"



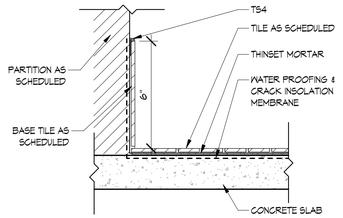
TRANSITION STRIP 4 (TS-4) 8

6" = 1'-0"



FULL WALL TILE DETAIL 5

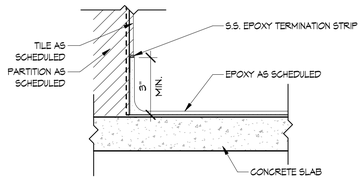
3" = 1'-0"



TILE BASE DETAIL 4

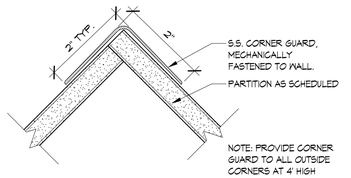
3" = 1'-0"

FINISH SCHEDULE								
	TAG	FINISH TYPE	BOD MANUFACTURER	BOD STYLE/COLOR	ALT. MANUFACTURER 1	ALT. MANUFACTURER 2	REMARKS
FLOOR	CPT1	CARPET TILE	SHAW CONTRACT	COLLECTION: SUBTEXT TILE COLOR: QUIP 05485 SIZE: 9"X36"	MANUFACTURER: MOHAWK STYLE/COLOR: SHIFTED FOCUS, INDIGO 585	MANUFACTURER: MANNINGTON STYLE/COLOR: INNER SHARE, VISION 34164	STAGGERED
	CPT2	CARPET TILE	SHAW CONTRACT	COLLECTION: SUBTEXT TILE COLOR: VERSE05375 SIZE: 9"X36"	MANUFACTURER: MOHAWK STYLE/COLOR: SHIFTED FOCUS, 696	MANUFACTURER: MANNINGTON STYLE/COLOR: INNER SHARE, SYNTHESIS 431-68	STAGGERED
	WCP1	WALK OFF CARPET TILE	SHAW CONTRACT	COLLECTION: WELCOME II TILE COLOR: CHARCOAL 31549 SIZE: 24"X24"	MANUFACTURER: MOHAWK STYLE/COLOR: STEP UP II, COBALT 955	MANUFACTURER: MANNINGTON STYLE/COLOR: RUFFIAN II, TERRACOTTA TERRAIN 6502	QUARTER TURN
	LVT	LUXURY VINYL TILE	SHAW CONTRACT	COLLECTION: INLET II, 5MM COLOR: VALLEY 72103 SIZE: 9"X48"	MANUFACTURER: MOHAWK STYLE/COLOR: LARGE AND LOCAL WOOD, BLY 855	MANUFACTURER: MANNINGTON STYLE/COLOR: UPWARD 20, NATURAL OAK UPW203021	ASHLAR
	T1	FLOOR TILE	DALTILE	COLLECTION: SLATE ATTACHE COLOR: META DARK GREY SA07 SIZE: 12"X24"	MANUFACTURER: TILEBAR STYLE/COLOR: BASIC CEMENT ASH MATTE PORCELAIN TILE	MANUFACTURER: FLORDIATILE STYLE/COLOR: NATURAL SLATE DEEP TAUPE FTIHRG40	RUNNING BOND GROUT: MAPEI, 5047 CHARCOAL
	EP	EPOXY	TRI SOLUTIONS	COLLECTION: SOY STEP COLOR: CUSTOM, 421 SHORELINE	MANUFACTURER: LIQUIDELEMENTS STYLE/COLOR: CRUSH, CHIARO EPOXY FLOORING SOLUTION	MANUFACTURER: PEBBLESTONE STYLE/COLOR: FLAKE EPOXY FLOORING, SHORELINE FB-421	BUILT-UP EXPOXY FLOOR SYSTEM, SLOPE EPOXY TO FLOOR DRAIN 1/8"/1'0". PROVIDE INTEGRAL TURNED-UP BASE W/ S.S. TERMINATION AT WALL
WALL	T2	WALL TILE	DALTILE	COLLECTION: SLATE ATTACHE COLOR: META WHITE SIZE: 12"X24"	MANUFACTURER: TILEBAR STYLE/COLOR: BASIC CEMENT SILVER MATTE PORCELAIN TILE	MANUFACTURER: FLORDIATILE STYLE/COLOR: NATURAL SLATE STARDUST WHITE FTIHRG10	FOR NON WET WALLS WALL TILE AS SHOWN IN ELEVATIONS INCLUDE AS ALT #2. BASE BID TO INCLUDE TILE AS SHOWN IN ELEVATIONS ON WET WALLS AND TILE BASE ON NON WET WALLS REFER TO ELEVATIONS FOR LOCATIONS; GROUT: MAPEI, 107 IRON
	T3	WALL TILE	DALTILE	COLLECTION: REVALIA REMIX COLOR: MUSTARD STRUCTURAL RV24 SIZE: 3"X4"	MANUFACTURER: TILEBAR STYLE/COLOR: SIMILAR TO BOD MANUFACTURER	MANUFACTURER: FLORDIATILE STYLE/COLOR: SIMILAR TO BOD MANUFACTURER	MUST BE HEAT TOLERABLE WITH GROUT, MORTER AND PREP
		SHOE MOLDING	LOWES	ITEM #373522 MODEL #126-PFMDF12			REFERS TO BASE OF ALT#1 WAINCOTTING, SEE WAINSCOTING DETAIL FOR REF. ON A7.11 FOR LOCATION
	PT1	PAINT	SHERWIN WILLIAMS	DOVER WHITE 6385 EGGSHELL	BENJAMIN MOORE	VALSPAR	PRIMARY PAINT IN ALL LOCATIONS, UNO
	PT2	PAINT	SHERWIN WILLIAMS	GEORGIAN BAY 6509	BENJAMIN MOORE	VALSPAR	ACCENT PAINT AS SHOWN IN FINISH PLAN
	PT 3	PAINT	SHERWIN WILLIAMS	AFTERGLOW 6667	BENJAMIN MOORE	VALSPAR	ACCENT PAINT AS SHOWN IN FINISH PLAN.
	PT 4	PAINT	SHERWIN WILLIAMS	BLUEBIRD FEATHER 9062	BENJAMIN MOORE	VALSPAR	ACCENT PAINT AS SHOWN IN FINISH PLAN.
	PT 5	PAINT	SHERWIN WILLIAMS	PARISIAN PATINA 9041	BENJAMIN MOORE	VALSPAR	ACCENT PAINT AS SHOWN IN FINISH PLAN.
	PT 6	PAINT	SHERWIN WILLIAMS	DOVER WHITE 6385 EGGSHELL	BENJAMIN MOORE	VALSPAR	ACCENT PAINT AS SHOWN IN FINISH PLAN
	PT 7	PAINT	SHERWIN WILLIAMS	DOVER WHITE 6385 SEMI GLOSS	BENJAMIN MOORE	VALSPAR	FRAME AND ALT #1 WAINSCOTTING PAINT AS SHOWN IN FINISH PLAN.
BASE	RB1	RUBBER BASE	JOHNSONITE	63 BURNT UMBER	ALT1: WAINSCOTTING	MANUFACTURER: ROPPE COLOR: 193 BLACK BROWN	INSTALLED THROUGHOUT SCOPE AREA, UNO PAINT GRADE WOOD WAINSCOTTING AS SHOWN IN ELEVATIONS ON ALL WALLS IN IDENTIFIED ROOMS (SOCIAL ROOM 100, LOUNGE 1008; PROGRAM ROOM 102) *INCLUDE IN ALT. #1, BASE BID: RUBBER BASE
	EP	EPOXY BASE	TRI SOLUTIONS	CUSTOM COLOR: SHORELINE	MANUFACTURER: LIQUIDELEMENTS STYLE/COLOR: CRUSH, CHIARO EPOXY FLOORING SOLUTION	MANUFACTURER: PEBBLESTONE STYLE/COLOR: FLAKE EPOXY FLOORING, SHORELINE FB-421	HEIGHT VARIES, MIN. 3" DUE TO SLOPED FLOOR. COORDINATE W/ WALL HUNG TOILETS BASE TO TERMINATE UNDER TOILETS IN MAIN BATHROOMS
CASEWORK	SS1	QUARTZ	CORIAN	VENETIA CREAM LEATHERED	MANUFACTURER: HANSTONE STYLE/COLOR: QUARTZ, RIDGE	MANUFACTURER: CAESARSTONE STYLE/COLOR: 5222 ADAMINA QUARTZ	RECEPTION COUNTER, KITCHEN COUNTERS, BATHROOM COUNTERS
	PLAM1	PLASTIC LAMINATE	FORMICA	NATURAL TEAK 8994-58 MATTE FINISH	MANUFACTURER: WILSONART STYLE/COLOR: WALNUT HEIGHTS 7965 MATTE FINISH	MANUFACTURER: PIONITE STYLE/COLOR: CINDER GRAY CONCRETE AG471	CASEWORK LAMINATE
	PLAM2	PLASTIC LAMINATE	FORMICA	ELEMENTAL CONCRETE(08830-58) MATTE TEXTURE	MANUFACTURER: WILSONART STYLE/COLOR: PEARL SOAPSTONE 4886 MATTE FINISH	MANUFACTURER: PIONITE STYLE/COLOR: KINGSLEY WW011	BREAK ROOM, CRAFT ROOM, WORK ROOM, LOUNGE ROOM, SOCIAL ROOM, RECEPTION IN VET. CENTER AND MEETING ROOM COUNTERS
	PLAM3	PLASTIC LAMINATE	FORMICA	TRAVERTINE(3526-58) MATTE FINISH	MANUFACTURER: WILSONART STYLE/COLOR: NATURAL TIGRIS 4669-80 MATTE FINISH	MANUFACTURER: PIONITE STYLE/COLOR: CORIANDER FIBER AT981	SINK APRON
CEILING	ACT1	ACOUSTICAL CEILING TILE	USG	STYLE: RADAR SIZE: 2'X2', EDGE SQ COLOR: WHITE	MANUFACTURER: ARMSTRONG	MANUFACTURER: CERTAINTEED	USE COORDINATING GRID DONN 15/16 SUSPENSION. INSTALL SOUND BATTS OVER CEILING
	PG8	PAINTED GYPSUM BOARD	SHERWIN WILLIAMS	HIGH REFLECTIVE WHITE SW 7757	BENJAMIN MOORE	VALSPAR	FOR USE ON HORIZONTAL SURFACES OF GYP. BD. CEILINGS AND BULKHEADS, UNO
OTHER	TP	TOILET PARTITIONS	SCRANTON PRODUCTS	COLLECTION: HINY HIDERS STYLE: FLAT DOOR COLOR: DOOR HAMMERED BRONZE PILASTER ROTARY BRUSHED BRONZE	MANUFACTURER: BRADLEY CORP. COLLECTION: BRADMAR COLOR: CANYON GRANITE M244	MANUFACTURER: COLUMBIA COLLECTION: POLYLITE COLOR: PL-200 CEMENT	FULL HEIGHT BRACKETS, HINGES, GUARDS, CONNECTIONS, ETC. ALL HARDWARE TO BE ALUMINUM.
	D	DOOR	FIVE LAKES MANUFACTURING	SERIES: ST, CLAIR SERIES STAIN COLOR: CHESTNUT			
	TS-2	TRANSITION THRESHOLD		ADA ENGINEERED STONE THRESHOLD WHITE			
	TS-3	TRANSITION STRIP	TARKETT	SLT-XX-H			
	TS-4	TRANSITION SYSTEM	SCHLUTER SYSTEM	Q100TSLA COLOR: LIGHT ANTHRACITE			



EPOXY DETAIL 6

3" = 1'-0"



CORNER GUARD DETAIL 3

6" = 1'-0"

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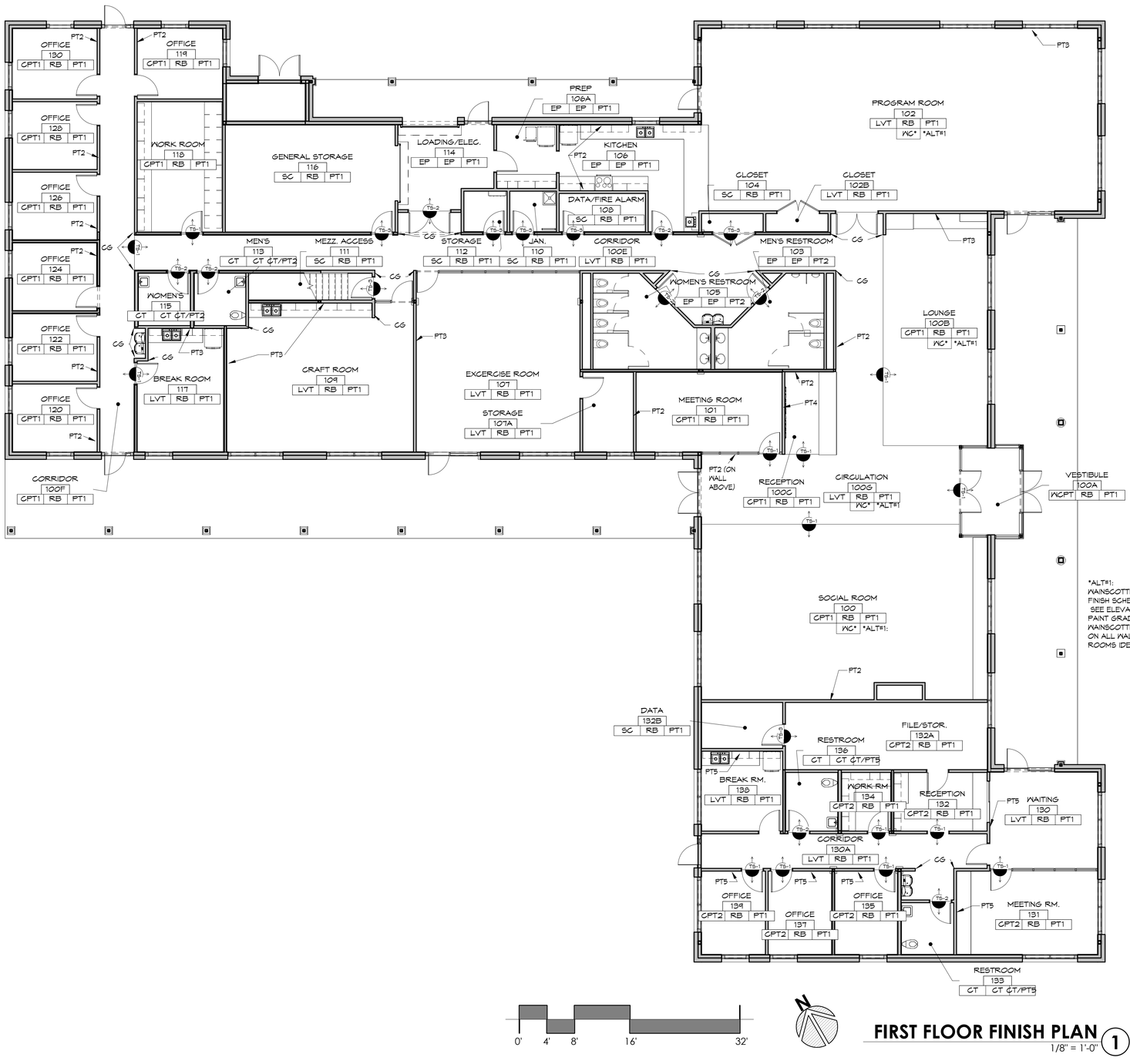
FINISH SCHEDULE & DETAILS

A9.00



FIRST FLOOR FINISH PLAN 1

1/8" = 1'-0"

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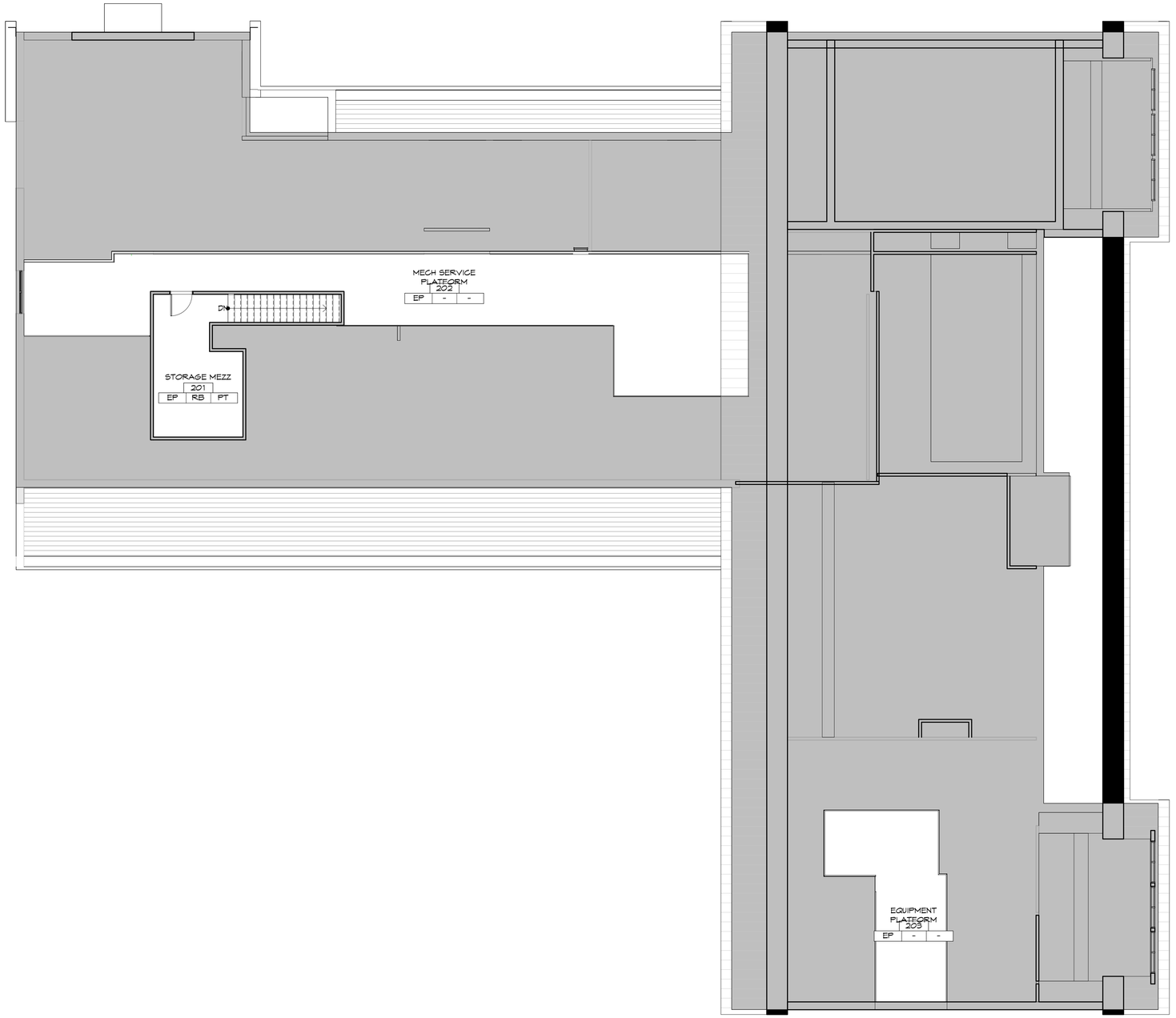
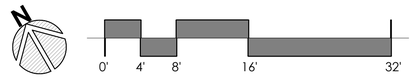
FINISH PLAN FIRST FLOOR

A9.01





FINISH PLAN MEZZANINE 1

1/8" = 1'-0"

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FINISH PLAN MEZZANINE

A9.02

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

3. THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

4. DISCREPANCIES BETWEEN DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.

5. DESIGN CRITERIA:

CLASSIFICATION OF BUILDING
- RISK OCCUPANCY CATEGORY II

SUPER IMPOSED DEAD LOADS - UNIFORM:
- ROOF . . . . . 20 PSF

LIVE LOADS - UNIFORM:
- SLAB ON GRADE . . . . . 100 PSF
- MEZZANINE . . . . . 80 PSF
- ROOF . . . . . 20 PSF
- STORAGE . . . . . 100 PSF

SNOW LOADS:
- GROUND SNOW LOAD . . . . . 10 PSF
- FLAT ROOF LOAD . . . . . 7 PSF
- IMPORTANCE FACTOR (Is) 1.0
- THERMAL FACTOR (Ct) 1.0
- EXPOSURE FACTOR (Ce) 1.0

WIND LOADS:
- ULTIMATE DESIGN WIND SPEED (VULT) . . . . . 121 MPH
- EXPOSURE CATEGORY . . . . . B
- INTERNAL PRESSURE COEFFICIENT . . . . . ±0.18
- COMPONENT AND CLADDING PRESSURES:
  - WALLS, ZONE 5 (10 SF) . . . . . 36 PSF
  - ROOF, ZONE 3 (10 SF) . . . . . 25 PSF
- ULTIMATE WIND BASE SHEARS (FOR MWFRS):
  - VE-W . . . . . 88 KIPS
  - VN-S . . . . . 75 KIPS

SEISMIC LOADS:
- SITE CLASSIFICATION . . . . . D
- SEISMIC DESIGN CATEGORY . . . . . B
- IMPORTANCE FACTOR (IE) 1.0
- SPECTRAL RESPONSE ACCELERATIONS:
  - S_S . . . . . 0.124 S_1 . . . . . 0.062
  - S_{MS} . . . . . 0.198 S_{M1} 0.15
  - S_{DS} . . . . . 0.132 S_{D1} 0.10
- ANALYSIS PROCEDURE . . . . . EQUIVALENT LATERAL FORCE
- LATERAL FORCE RESISTING SYSTEM . . . . . LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
- RESPONSE MODIFICATION COEFFICIENT (R) 6.5
- SEISMIC RESPONSE COEFFICIENT (Cs) 0.0203
- ULTIMATE SEISMIC BASE SHEAR (V) . . . . . 17 KIPS

LATERAL DESIGN CONTROL
- CONTROLLING LATERAL LOADS . . . . . WIND

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED JUNE 28, 2023.

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

3. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY WHERE UNSATISFACTORY SOILS ARE PRESENT.

4. CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARINF MUST BE PRVENTED.

CAST-IN-PLACE CONCRETE NOTES:

1. CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.

2. CONCRETE MUST BE NORMAL WEIGHT AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
   A. SLAB-ON-GRADE ..... 3,500 PSI
   B. FOOTINGS ..... 3,000 PSI

3. REINFORCING MATERIALS MUST BE AS FOLLOWS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
   B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
   C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.

6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

7. THE OWNER WILL ENGAGE AN APPROVED TESTING AGENCY TO PROVIDE SERVICES BELOW. SUBMIT REPORTS TO THE STRUCTURAL ENGINEER OF RECORD.
   A. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. MOLD TEST CYLINDERS IN ACCORDANCE WITH ASTM C31.
   B. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF CONCRETE OR EACH 150 CU. YDS. WHICHEVER RESULTS IN MORE TEST CYLINDERS.
   C. SLUMP: ASTM C143, ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE.
   D. SLUMP FLOW: ASTM C1611, ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE.
   E. AIR CONTENT: ASTM C231, ONE TEST FOR EACH COMPOSITE SAMPLE.
   F. TEMPERATURE: ASTM C1064, ONE TEST HOURLY WHEN AIR TEMP IS 40 DEG AND BELOW OR 80 DEG AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
   G. COMPRESSION TEST SPECIMENS: ASTM C31, CAST AND LABORATORY CURE (2) 6"x12" STD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. CAST, INITIAL CURE AND FIELD CURE (1) SETS OF (2) 6"x12" STD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
   H. COMPRESSIVE-STRENGTH TEST: ASTM C39, TEST ONE SET OF (2) LABORATORY-CURED SPECIMENS AT SEVEN DAYS AND ONE SET OF (3) SPECIMENS AT 28 DAYS. MAINTAIN ONE SPECIMEN IN RESERVE FOR LATER TESTING IF REQUIRED. TEST ONE SET OF (3) FIELD-CURED SPECIMENS AT SEVEN DAYS AND ONE SET OF (3) SPECIMENS AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM THE SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.

2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A36, Fy = 36 KSI
   B. HOLLOW STRUCTURAL SECTIONS (HSS):
      a. SQUARE & RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI
   C. ANCHOR RODS - ASTM F1554, GRADE 36
   D. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)
   E. WASHERS - ASTM F436
   F. NUTS - ASTM A563

3. UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.

4. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH MUST BE FULLY PRETENSIONED:

5. FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.

6. DELEGATED DESIGN CONNECTIONS ARE AS FOLLOWS:
   A. TRUSS CONNECTIONS.
   B. WOOD TRUSSES
   C. STEEL TRUSSES
   D. CANOPY

7. HIGH STRENGTH BOLTS MUST BE FULLY PRETENSIONED USING LOAD INDICATOR WASHERS OR TENSION CONTROL "TWIST OFF" BOLTS.

STRUCTURAL STEEL NOTES CONT:

8. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.

9. COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.

10. THE OWNER WILL ENGAGE AN APPROVED TESTING AGENCY TO PROVIDE SERVICES BELOW. SUBMIT REPORTS TO THE STRUCTURAL ENGINEER OF RECORD.
    A. AGENCY MUST
       a. VISUALLY INSPECT ALL FILLET WELDS. BOLTED CONNECTIONS AND SHEAR STUDS.
       b. PERFORM WELDING INSPECTION AND TESTING PROCEDURES IN ACCORDANCE WITH THE AWS CODE.
       c. TEST 10% OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS AND MULT-PASS WELDS BY THE MAGNETIC PARTICLE METHOD ASTM E709.

13. HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
    A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
    B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
    C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
    D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

14. THE FABRICATION OF STRUCTURAL STEEL FRAMING SHOWN TO BE CURVED MUST BE ACCOMPLISHED BY ROLLING IF FEASIBLE. WHERE ROLLING IS NOT FEASIBLE SUBMIT AN ALTERNATE METHOD FOR REVIEW AND APPROVAL.

STEEL JOIST NOTES:

1. STEEL JOISTS AND JOIST GIRDERS MUST BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.

2. STEEL JOISTS AND JOIST GIRDERS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS AND JOIST GIRDERS WHICH MUST BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED.

3. JOIST BRIDGING MUST CONFORM TO SJI SPECIFICATIONS, INCLUDING BRIDGING REQUIRED FOR JOISTS SUBJECTED TO UPLIFT LOADS. PROVIDE CROSS-BRIDGING AT ENDS OF BRIDGING LINES AND CHANGES IN JOIST DEPTHS AND AT ROLLED STEEL SHAPES RUNNING PARALLEL TO JOISTS. BRIDGING SHOWN MUST BE PROVIDED, IN ADDITION TO THE REQUIRED STANDARD BRIDGING. ENDS OF ALL BRIDGING LINES MUST BE ANCHORED TO WALLS OR BEAMS.

4. ROOF JOISTS MUST BE DESIGNED FOR A NET UPLIFT LOAD (LRFD) OR (ULTIMATE) OF 50 PSF.

5. ALL JOISTS MUST BE DESIGNED FOR A CONCENTRATED LOAD OF 300 LBS. HUNG FROM THE JOIST TOP OR BOTTOM CHORD AT ANY POINT ALONG THE SPAN.

6. STEEL JOISTS SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.

7. COMPLY WITH OSHA SAFETY STANDARDS FOR THE ERECTION OF STEEL JOISTS.

8. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA FOR THE DESIGN OF SPECIAL JOISTS OR JOISTS INDICATED TO COMPLY WITH SPECIFIC LOADING REQUIREMENTS.

STEEL DECK NOTES:

1. STEEL DECK MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."

2. STEEL DECK INSTALLATION MUST COMPLY WITH THE FOLLOWING:
   A. ROOF DECK: 1 1/2" x 22 GAGE TYPE 'B' GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS IN ALL RIBS WHERE END LAPS OCCUR AND AT 12 INCHES ON CENTER ALONG SUPPORTS WITH A 36/4 PATTERN. FASTEN SIDE LAPS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/5 POINTS BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.

3. STEEL DECK MUST BE INSTALLED PERPENDICULAR TO SUPPORTS AND MUST HAVE A MINIMUM OF THREE CONTINUOUS SPANS. ENDLAPS MUST ONLY OCCUR AT SUPPORTS.

4. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".

5. PERMANENT SUSPENDED LOADS MUST NOT BE SUPPORTED BY STEEL ROOF DECK.

ROUGH CARPENTRY NOTES:

1. ROUGH CARPENTRY MUST BE IN ACCORDANCE WITH THE AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

2. UNLESS OTHERWISE NOTED, USE 'COMMON' NAILS AND ALL NAILING MUST CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.10.1 OF THE BUILDING CODE.

3. WOOD FRAMING MEMBERS MUST COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
   A. MOISTURE CONTENT - SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.
   B. GRADE - NO. 2, OR BETTER UNLESS OTHERWISE NOTED.
   C. SPECIES - SPRUCE-PINE-FIR (SOUTH).

4. LAMINATED VENEER LUMBER (LVL) MUST BE WEYERHAUSER OR EQUAL AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS:
   A. Fb = 2,600 psi
   B. Fc, PERP = 750 psi
   C. Fv = 285 psi
   D. E = 2.0E6 psi

5. PARRALLEL STRAND LUMBER (PSL) MUST BE WEYERHAUSER OR EQUAL AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS:
   A. Fb = 2,400 psi
   B. Fc, PERP = 545 psi
   C. Fv = 190 psi
   D. E = 1.8E6 psi

6. WOOD STRUCTURAL PANELS (WSP) MUST COMPLY WITH PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" FOR PLYWOOD CONSTRUCTION PANELS AND THE FOLLOWING REQUIREMENTS:
   A. EXTERIOR WALL AND SHEAR WALL SHEATHING: 15/32" INCH, APA RATED SHEATHING, EXTERIOR EXPOSURE DURABILITY CLASSIFICATION.
   B. FLOOR SHEATHING: 3/4" INCH,APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION.
   C. ROOF SHEATHING: 5/8" INCH, APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION. PROVIDE TONGUE-AND-GROOVE EDGES OR USE "PLY-CLIPS" AT MID-SPAN BETWEEN EACH SUPPORT.

7. ALL WOOD FRAMING MEMBERS PERMANENTLY EXPOSED TO THE WEATHER AND ALL SILL PLATES IN CONTACT WITH CONCRETE MUST BE PRESERVATIVE-TREATED. REFER TO THE SPECIFICATIONS.

8. STEEL PLATE CONNECTORS MUST COMPLY WITH ASTM A 36 SPECIFICATIONS (Fy= 36 KSI). BOLTS CONNECTING WOOD MEMBERS MUST COMPLY WITH ASTM A307 COMMON STEEL BOLTS, AND MUST BE 1/2 INCH DIAMETER, UNLESS OTHERWISE NOTED.

9. METAL FRAMING ANCHORS, HOLD DOWNS, HURRICANE TIES, HANGERS, ETC. MUST COMPLY WITH ASTM A653 AND BE CAPABLE OF SUPPORTING THE REACTIONS SHOWN. WHERE PRODUCTS OF A SPECIFIC MANUFACTURER ARE SHOWN, EQUAL PRODUCTS OF ANOTHER MANUFACTURER MAY BE USED IF APPROVED.

10. PROVIDE BRIDGING FOR ALL FLOOR JOISTS AND ROOF RAFTERS. MAXIMUM SPACING MUST BE 8'-0", UNLESS OTHERWISE NOTED.

11. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS, AND UNDER ALL CONCENTRATED LOADS FROM FLOORS ABOVE UNLESS OTHERWISE INDICATED. PROVIDE MULTIPLE STUDS WHERE INDICATED ON THE PLANS.

12. PROVIDE HEADERS OF THE SAME CROSS SECTION AS JOISTS OR RAFTERS TO FRAME AROUND ALL OPENINGS TO SUPPORT SHEATHING, UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS.

13. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16 INCH DIAMETER POWDER ACTUATED FASTENERS AT 24 INCHES ON CENTER OR 1/2 INCH DIAMETER BOLTS AT 48 INCHES ON CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

14. WHERE MULTIPLE FRAMING MEMBERS ARE INDICATED, SCAB CONTINGENT MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER, ALTERNATING AT 2 INCHES FROM EACH EDGE.

15. ALL CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT-DIP GALVANIZED COATED.

16. POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:
    A. STEEL: SHEAR = 600 LBS
       TENSION = 250 LBS
    B. CONCRETE: SHEAR = 260 LBS
       TENSION = 255 LBS

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NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL C-4360 LYNCH MYKINS STRUCTURAL ENGINEERS, PC

NORTH CAROLINA PROFESSIONAL SEAL 030253 ENGINEER CHRISTINE M. BENDITCH
07/21/23

REVISIONS:

#	DESC:	DATE

DRAWN BY:
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
GENERAL NOTES

S0.01

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Corporation No. C-4360

PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSS NOTES:

1. PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES MUST BE IN ACCORDANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE TRUSS PLATE INSTITUTE (TPI) "NATIONAL DESIGN STANDARDS FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION".

2. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE ALL TRUSS SPLICE DETAILS AND TRUSS-TO-TRUSS CONNECTION DETAILS. SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO MEMBER LOADS MUST BE CONSIDERED IN THE DESIGN.

3. WOOD TRUSS FRAMING MEMBERS MUST COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND MUST BE SIZED BY THE MANUFACTURER FOR THE LOADS INDICATED.

4. METAL CONNECTOR PLATES MUST COMPLY WITH ASTM A653, GRADE A WITH COATING AS SPECIFIED.

5. WOOD TRUSS DESIGN LOADS MUST BE AS INDICATED IN "GENERAL NOTES" AND AS FOLLOWS:
   A. TOP CHORD DEAD LOAD: 10 PSF (PLUS ADDITIONAL 5 PSF AT SUPERIMPOSED ROOF FRAMING AREAS).
   B. WIND LOAD: WHEN CALCULATING NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 7 PSF ON TOP CHORD AND 0 PSF ON BOTTOM CHORD.
   C. BOTTOM CHORD DEAD LOAD: 10 PSF.

6. WHERE MULTIPLE TRUSSES ARE INDICATED, SCAB CONTINGENT TRUSS MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER.

7. IN ADDITION TO THE TRUSS BRACING SHOWN, THE CONTRACTOR MUST PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER. THE GUIDELINES SET FORTH IN THE TRUSS PLATE INSTITUTE PUBLICATION "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS" MUST BE CONSIDERED AS MINIMUM REQUIREMENTS.

8. TRUSSES MUST BE DESIGNED ASSUMING THAT THE BOTTOM CHORD IS NOT BRACED BY THE CEILING. PROVIDE ALL ADDITIONAL BRACING OF BOTH WEB AND CHORD MEMBERS REQUIRED BY THE TRUSS SHOP DRAWINGS.

9. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL OF THE ENGINEER.

10. ALL CONNECTION HARDWARE FOR TRUSS-TO-TRUSS CONNECTIONS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS MUST BE SUPPLIED BY THE MANUFACTURER.

11. FOR ADJACENT TRUSSES WHERE THE WEB CONFIGURATION IS CAPABLE OF CONTAINING A RECTANGLE 42 INCHES HIGH BY 24 INCHES WIDE OR GREATER BETWEEN TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER, SUCH AREAS MUST HAVE THE BOTTOM CHORD DESIGNED FOR A LIVE LOAD OF 20 PSF IN ADDITION TO ANY OTHER LOADS SHOWN.

POST-INSTALLED ANCHOR NOTES:

1. ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC, AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
   A. ANCHORAGE TO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40U) WITH STEEL THREADED ROD PER ICC ESR-3187.
      2. SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
   B. REBAR DOWELING INTO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
   C. ANCHORAGE TO SOLID GROUTED MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
      2. MECHANICAL ANCHORS USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
   D. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PERICCESR-3342.
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
         c. THE APPROPRIATE SIZE SCREEN TUBE MUST BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

2. ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.

3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4. THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.

7. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

8. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS INSPECTIONS BY THE OWNER'S MATERIALS TESTING AGENCY TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	HSA	HEADED STUD ANCHOR
ARCH	ARCHITECT	HT	HEIGHT
BD	BAR DIAMETER	HVY	HEAVY
BF	BRACED FRAME	INT	INTERIOR
BEJ	BUILDING EXPANSION JOINT	JBE	JOIST BEARING ELEVATION
BLDG	BUILDING	JT	JOINT
BM	BEAM	KCJ	KEYED CONSTRUCTION JOINT
BOD	BOTTOM OF DECK	L	LOW
BOT, B	BOTTOM	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LSH	LONG SIDE HORIZONTAL
C TO C	CENTER TO CENTER	LSV	LONG SIDE VERTICAL
CFMF	COLD-FORMED METAL FRAMING	LTWT	LIGHTWEIGHT
		LWC	LIGHTWEIGHT CONCRETE
CJ	CONTROL JOINT	MAS	MASONRY
CL	CENTERLINE	MATL	MATERIAL
CLR	CLEAR	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL
COL	COLUMN	MF	MOMENT FRAME
CONC	CONCRETE	MFR	MANUFACTURER
CONN	CONNECTION	MID	MIDDLE
CONSTR	CONSTRUCTION	MIN	MINIMUM
CONT	CONTINUOUS	MOD	MODIFY
COORD	COORDINATE	MOS	MIDDEPTH OF SLAB
CTR	CENTER	NOM	NOMINAL
CTRD	CENTERED	NTS	NOT TO SCALE
CW	CURTAIN WALL	OC	ON CENTER
DBA	DEFORMED BAR ANCHOR	OPH	OPPOSITE HAND
DBL	DOUBLE	OPNG	OPENING
DC	DIAPHRAGM CHORD	PAF	POWDER ACTUATED FASTENER
DCJ	DOWELED CONSTRUCTION JOINT	PAR	PARALLEL
DIA, Ø	DIAMETER	PC	PIECE
DJ	DOUBLE JOIST	PEMB	PRE-ENGINEERED METAL BUILDING
DWGS	DRAWINGS		
EA	EACH	PEN	PENETRATE, PENETRATION
EF	EACH FACE	PERP	PERPENDICULAR
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	R	RADIUS
ELEV	ELEVATOR	REF	REFERENCE, REFER TO
EMBED	EMBEDMENT	REINF	REINFORCE, REINFORCED, REINFORCING
EOD	EDGE OF DECK		
EOS	EDGE OF SLAB	REQD	REQUIRED
EQ	EQUAL	REQMTS	REQUIREMENTS
EW	EACH WAY	SCHED	SCHEDULE
EXIST	EXISTING	SGB	STEPPED GRADE BEAM
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SJ	SAWED JOINT
FD	FLOOR DRAIN	SL	SLOPE
FDN	FOUNDATION	SOG	SLAB-ON-GRADE
FO	FACE OF	STD	STANDARD
FF EL	FINISHED FLOOR ELEVATION	TBE	TRUSS BEARING ELEVATION
		T&B	TOP & BOTTOM
FIN	FINISH	T&G	TONGUE AND GROOVE
FIN FLR	FINISHED FLOOR	THK	THICKNESS
FOB	FACE OF BUILDING	TOC	TOP OF CONCRETE
FOC	FACE OF CONCRETE	TOF	TOP OF FOOTING
FOM	FACE OF MASONRY	TOCP	TOP OF CONCRETE PEDESTAL
FOS	FACE OF SLAB/ STUD	TOS	TOP OF STEEL
FRMG	FRAMING	TS	THICKENED SLAB
FTG	FOOTING	TYP	TYPICAL
FV, ±	FIELD VERIFY	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	VERT	VERTICAL
GEN	GENERAL	W/	WITH
GR BM	GRADE BEAM	WP	WORKING POINT
H	HIGH	WSP	WOOD STRUCTURAL PANEL(S)
HK	HOOK	WWR	WELDED WIRE REINFORCING
HORIZ	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SECTION		

PLAN LEGEND:

TOS = +X'-X" = TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

BOS = +X'-X" = BOTTOM OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

TBE = +X'-X" = TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

JBE = +X'-X" = JOIST BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

BOD = +X'-X" = BOTTOM OF DECK ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

RTU-X XXXX# = MECHANICAL UNIT SUPPORTED ABOVE FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS

RTU-X XXXX# = MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS

= FLOOR / ROOF OPENING

X'-X" = TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

= CHANGE IN ELEVATION

= CHANGE IN SLOPE

SL = DIRECTION OF SLOPE

= SLAB-ON-GRADE JOINT

SF SF PIPE = PIPE CROSSING FOOTING

X = COLUMN GRID MARK

X = PLAN KEY NOTE MARK

W1 = STRUCTURAL WALL MARK

INDICATES SIDE OF WALL TO BE SHEATHED
LENGTH OF SHEATHING
SW1 | X'-X" = SHEARWALL MARK
SHEARWALL TYPE - REFERENCE SCHEDULE

SW1 X'-X" = NEAR SIDE SHEATHED

SW1 X'-X" = FAR SIDE SHEATHED

SW1 X'-X" = BOTH SIDES SHEATHED

= BEARING WALL

= BEARING WALL (FLOOR BELOW)

= WOOD SHEARWALL

= HOLD-DOWN ANCHOR

MSP-A = MULTIPLE STUD PACK

X / SX = SECTION/DETAIL MARK
SECTION/DETAIL NUMBER/LETTER
SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN

= MOMENT CONNECTION

= AXIAL CONNECTION

= JOIST BOTTOM CHORD EXTENSION

= HORIZONTAL BRIDGING

= CROSS BRIDGING

WFX = WALL FOOTING MARK

CFX = COLUMN FOOTING MARK

BPX = BASE PLATE MARK

BBPX = BEAM BEARING PLATE MARK

L-X = CONCRETE / STEEL LINTEL MARK

T-X = TRUSS MARK

GT = GIRDER TRUSS MARK

DT = DRAG TRUSS MARK

= JOIST GIRDER MOMENT MARK

± = FIELD VERIFY

RT# = FRAMING SPAN

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NORTH CAROLINA PROFESSIONAL 030253 ENGINEER CHRISTINE M. BENDIXEN
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S0.02

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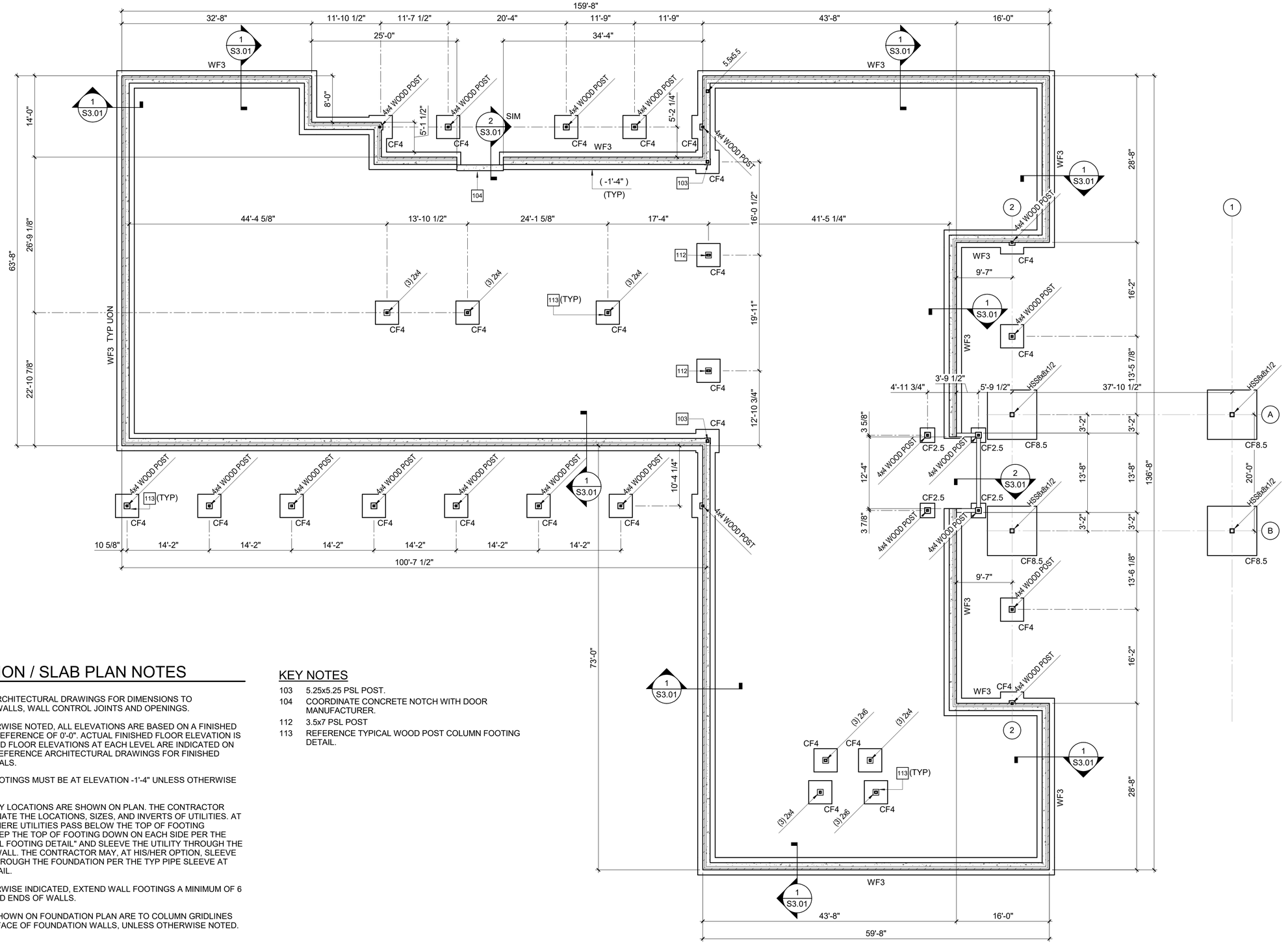
COLUMN FOOTING SCHEDULE

MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF2.5	2' - 6"	2' - 6"	1'-0"	(3) #5 EW	-	
CF4	4' - 0"	4' - 0"	1'-0"	(4) #5 EW	(4) #5 EW	-
CF8.5	8' - 6"	8' - 6"	2'-0"	(8) #7 EW	(8) #7 EW	-

WALL FOOTING SCHEDULE

MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF3	3' - 0"	1'-0"	(4) #5 BOT	#5 AT 12" OC BOT	-



FOUNDATION / SLAB PLAN NOTES

A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.

B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 124'-6". FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.

C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.

D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED WALL FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE TYP PIPE SLEEVE AT WALL FTG DETAIL.

E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.

F. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

KEY NOTES

103 5.25x5.25 PSL POST.

104 COORDINATE CONCRETE NOTCH WITH DOOR MANUFACTURER.

112 3.5x7 PSL POST

113 REFERENCE TYPICAL WOOD POST COLUMN FOOTING DETAIL.

1 FOUNDATION PLAN

1/8" = 1'-0"

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FOUNDATION PLAN

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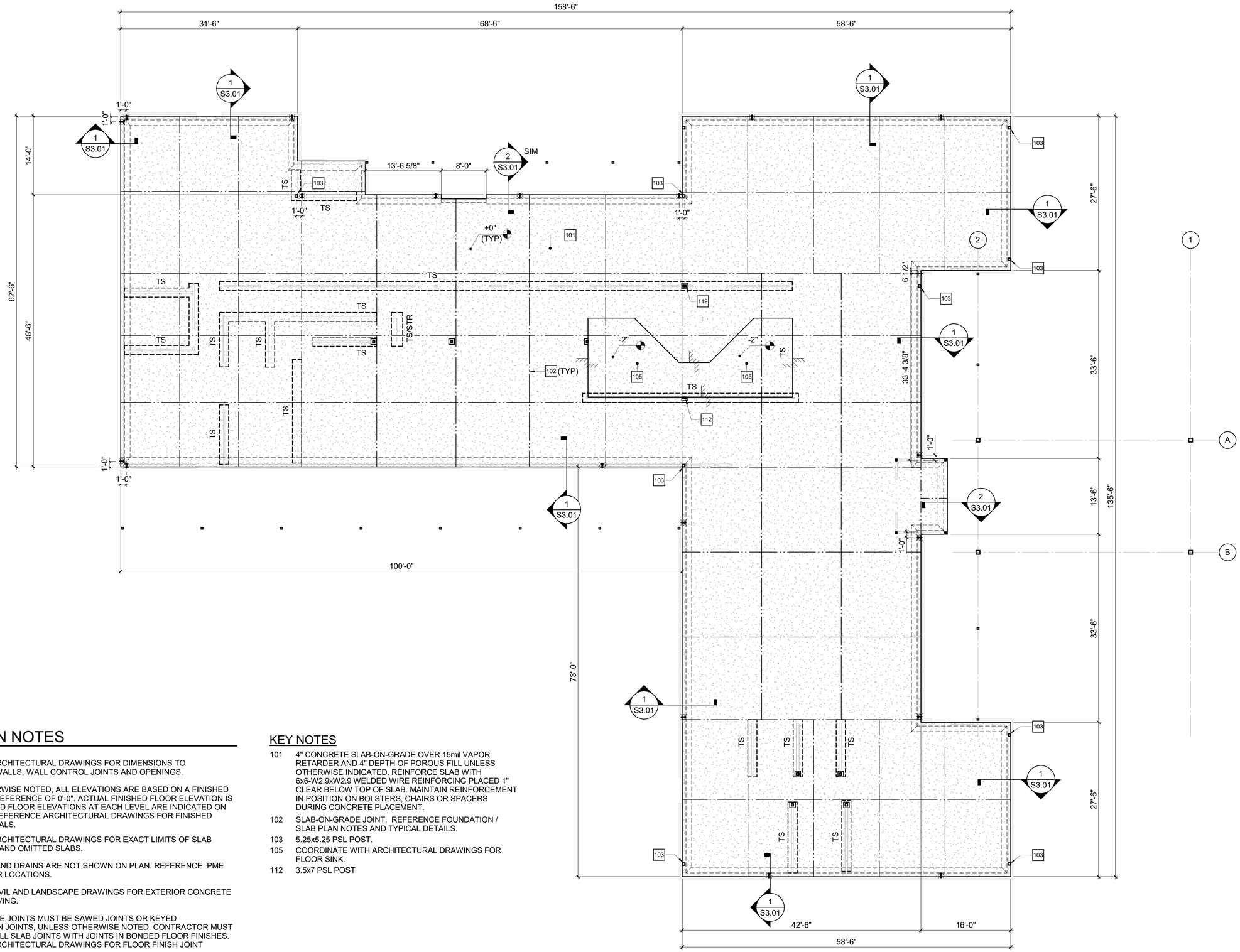

SLAB PLAN NOTES

A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.

B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 124'-6". FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.

C. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.

D. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.

E. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.

F. SLAB-ON-GRADE JOINTS MUST BE SAWED JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.

G. PLACE (1) #4 x 3'-0" IN MIDDLE OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.

KEY NOTES

101 4" CONCRETE SLAB-ON-GRADE OVER 15mil VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING PLACED 1" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.

102 SLAB-ON-GRADE JOINT. REFERENCE FOUNDATION / SLAB PLAN NOTES AND TYPICAL DETAILS.

103 5.25x5.25 PSL POST.

105 COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FLOOR SINK.

112 3.5x7 PSL POST

1 SLAB PLAN

1/8" = 1'-0"

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SLAB PLAN

S1.12

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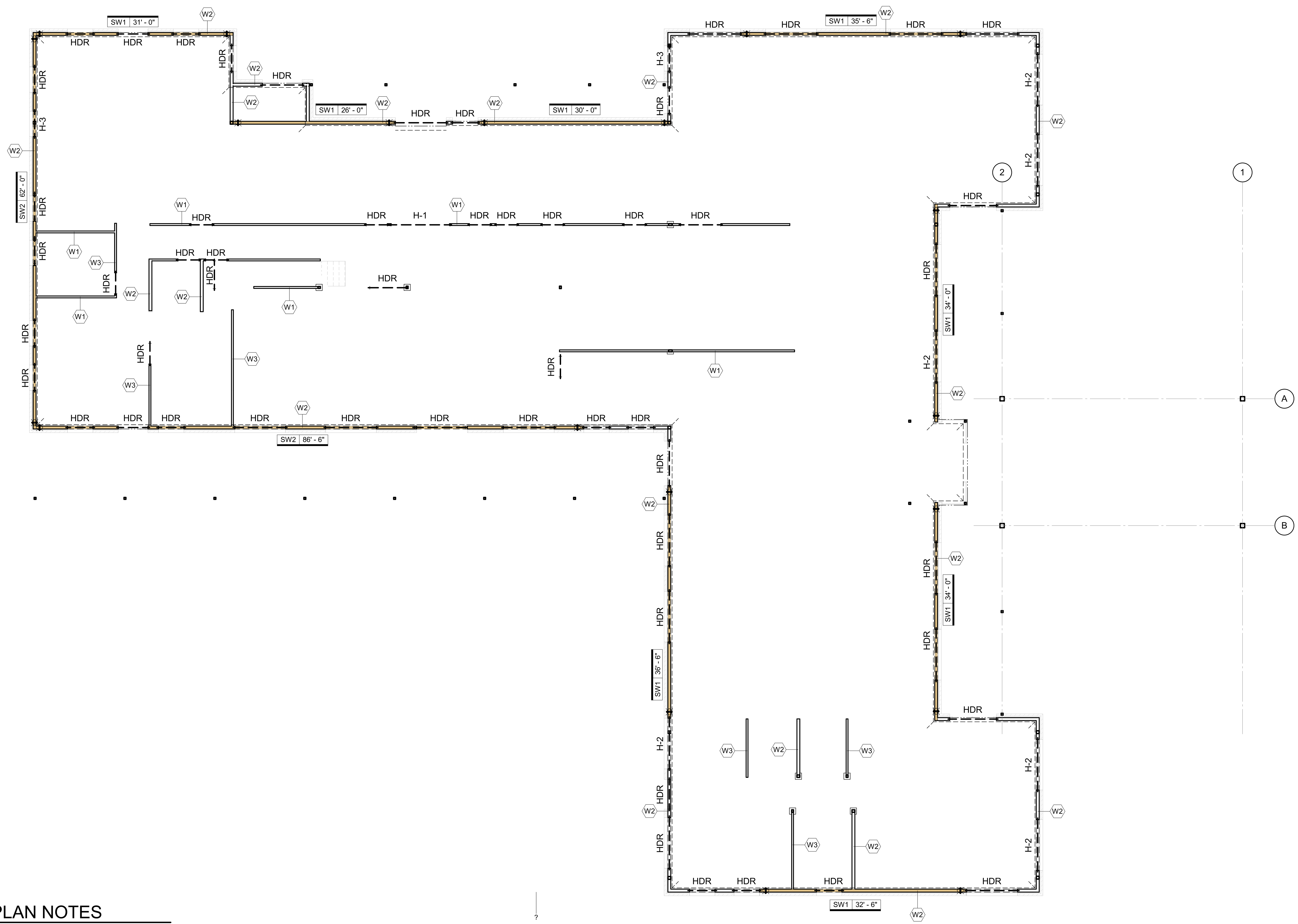
SHEARWALL SCHEDULE			
MARK	SILL ANCHOR AND SPACING	LEVEL 1	
		SHEATHING	CHORD
SW1	5/8"Ø x 6 1/2 SCREW ANCHOR AT 16"OC	SH-B	HD-B
SW2	5/8"Ø x 6 1/2 SCREW ANCHOR AT 16"OC	SH-C	HD-E

WALL STUD SCHEDULE			
MARK	STUD SIZE	STUD SPACING	REMARKS
W1	(2) 2x4	12" OC	BEARING
W2	2x6	16" OC	BEARING
W3	2x4	12" OC	BEARING



STRUCTURAL WALL PLAN NOTES

A. WALL DIMENSIONS ARE TO OUTSIDE FACE OF WALL STUD.

B. REFERENCE SHEAR WALL SCHEDULE ON S5.04.

1 FIRST FLOOR BEARING WALL PLAN
1/8" = 1'-0"

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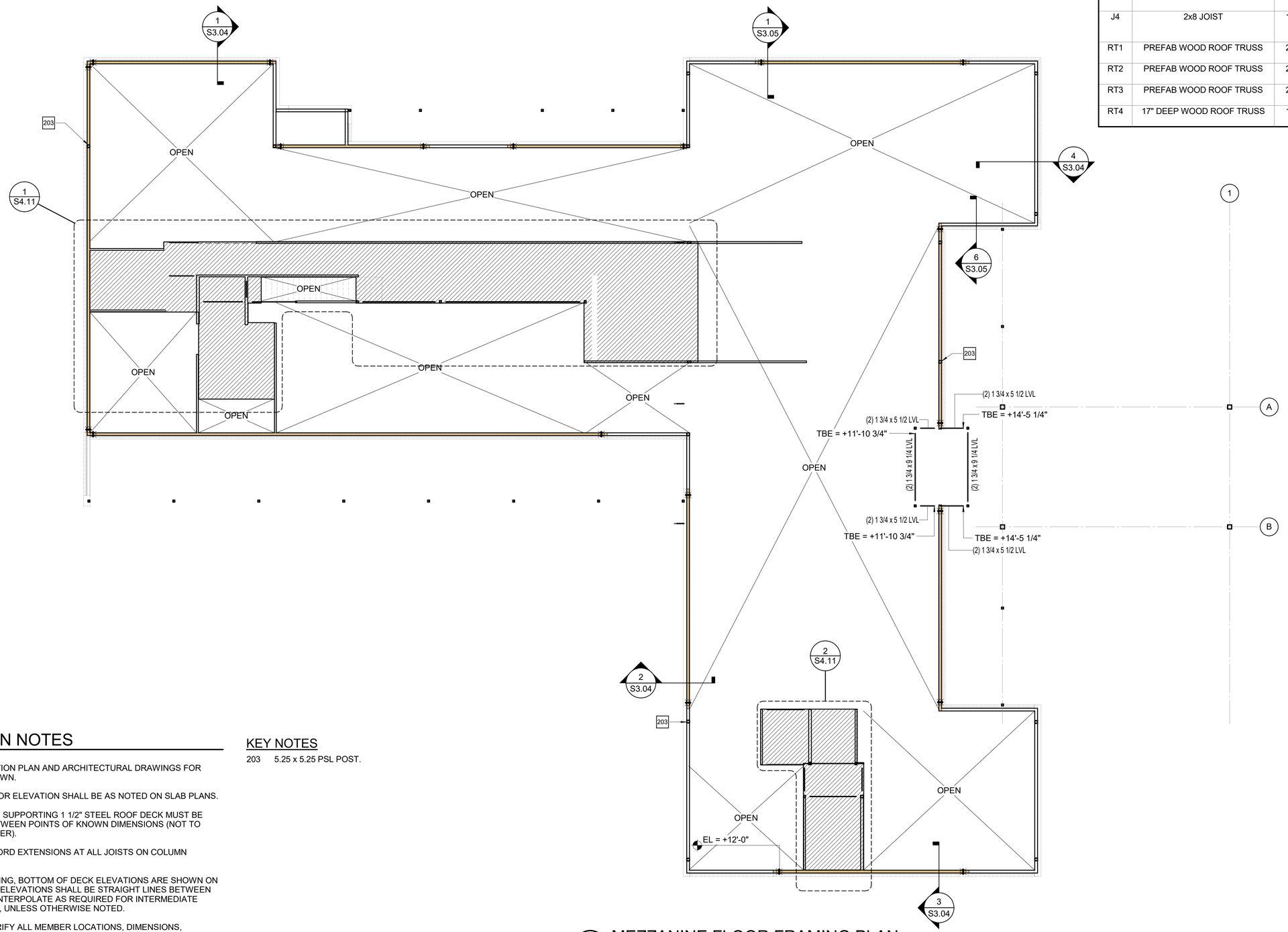
FIRST FLOOR STRUCTURAL WALL PLAN

S1.13

TRUSS / JOIST FRAMING SCHEDULE

MARK	DESCRIPTION	SPACING	REMARKS
FT1	16" DEEP WOOD FLOOR TRUSS	16" OC	CONN BY TRUSS MFR
J1	2x12 JOIST	12" OC	LUS210 JOIST HANGER EACH END
J2	2x12 JOIST	16" OC	LUS210 JOIST HANGER EACH END
J4	2x8 JOIST	12" OC	LU26 JOIST HANGER EACH END
RT1	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT2	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT3	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT4	17" DEEP WOOD ROOF TRUSS	12" OC	CONN BY TRUSS MFR



1 MEZZANINE FLOOR FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

B. TOP OF FINISHED FLOOR ELEVATION SHALL BE AS NOTED ON SLAB PLANS.

C. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-0" ON-CENTER).

D. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.

E. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.

F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

G. PREFABRICATED WOOD TRUSSES AT 24" ON-CENTER UNLESS OTHERWISE NOTED.

H. ALL GIRDER TRUSSES SHOULD BE ATTACHED WITH 2H2.5A HURRICANE TIES AT ANCHOR AT EACH TRUSS.

KEY NOTES

203 5.25 x 5.25 PSL POST.

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MEZZANINE FLOOR FRAMING PLAN

S1.21

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TRUSS / JOIST FRAMING SCHEDULE

MARK	DESCRIPTION	SPACING	REMARKS
FT1	16" DEEP WOOD FLOOR TRUSS	16" OC	CONN BY TRUSS MFR
J1	2x12 JOIST	12" OC	LUS210 JOIST HANGER EACH END
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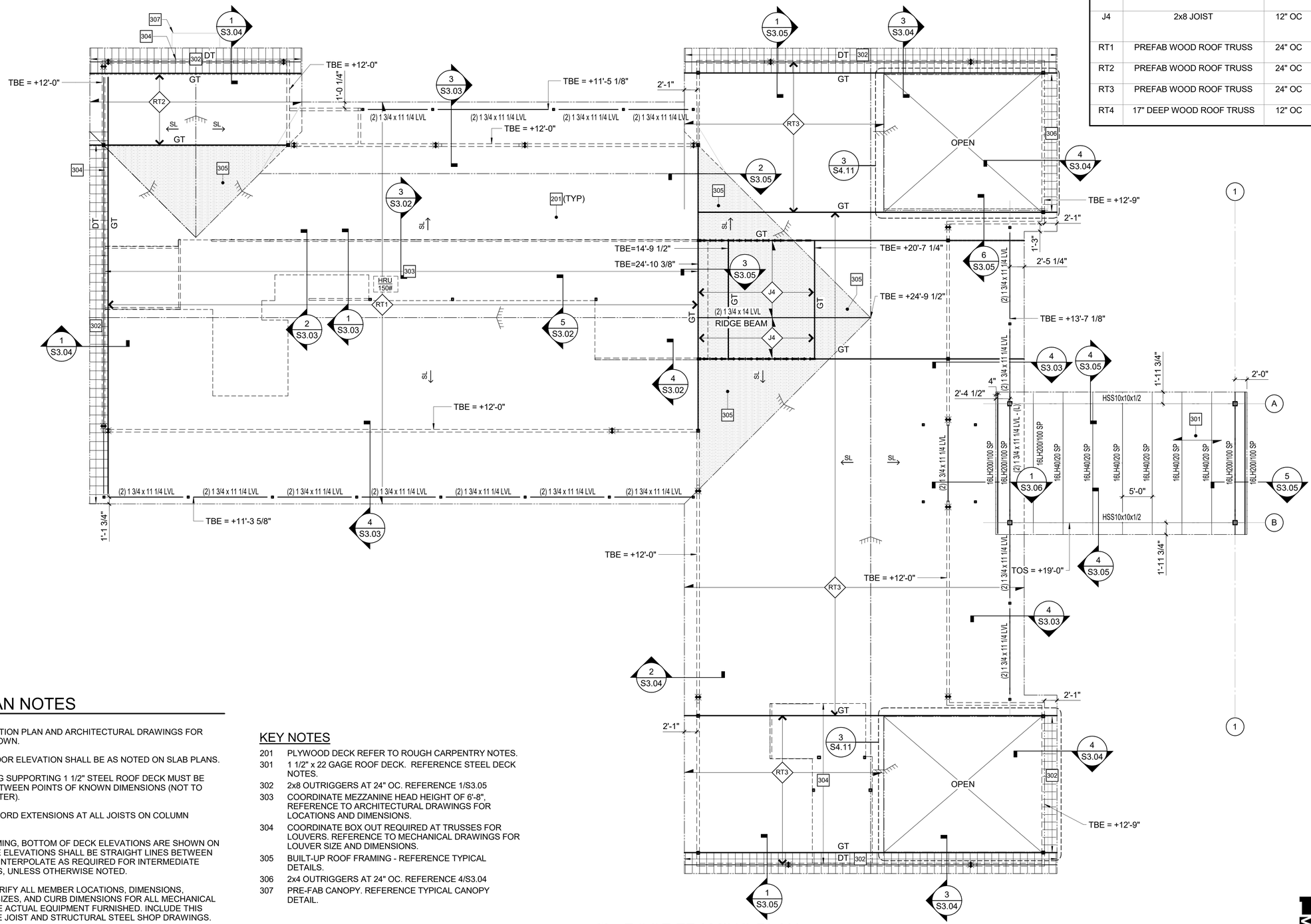
J4	2x8 JOIST	12" OC	LU26 JOIST HANGER EACH END
RT1	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT2	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT3	PREFAB WOOD ROOF TRUSS	24" OC	CONN BY TRUSS MFR
RT4	17" DEEP WOOD ROOF TRUSS	12" OC	CONN BY TRUSS MFR



1 ROOF FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

B. TOP OF FINISHED FLOOR ELEVATION SHALL BE AS NOTED ON SLAB PLANS.

C. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-0" ON-CENTER).

D. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.

E. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.

F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

G. PREFABRICATED WOOD TRUSSES AT 24" ON-CENTER UNLESS OTHERWISE NOTED.

H. ALL GIRDER TRUSSES SHOULD BE ATTACHED WITH 2H2.5A HURRICANE TIES AT ANCHOR AT EACH TRUSS.

I. BOX OUT REQUIRED AT TRUSSES, REFER TO MECHANICAL DRAWINGS FOR OPENING SIZE AND DIMENSION.

KEY NOTES

201 PLYWOOD DECK REFER TO ROUGH CARPENTRY NOTES.
301 1 1/2" x 22 GAGE ROOF DECK. REFERENCE STEEL DECK NOTES.
302 2x8 OUTRIGGERS AT 24" OC. REFERENCE 1/S3.05
303 COORDINATE MEZZANINE HEAD HEIGHT OF 6'-8", REFERENCE TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS.
304 COORDINATE BOX OUT REQUIRED AT TRUSSES FOR LOUVERS. REFERENCE TO MECHANICAL DRAWINGS FOR LOUVER SIZE AND DIMENSIONS.
305 BUILT-UP ROOF FRAMING - REFERENCE TYPICAL DETAILS.
306 2x4 OUTRIGGERS AT 24" OC. REFERENCE 4/S3.04
307 PRE-FAB CANOPY. REFERENCE TYPICAL CANOPY DETAIL.

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ROOF FRAMING PLAN

S1.31

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Corporation No. C-4360

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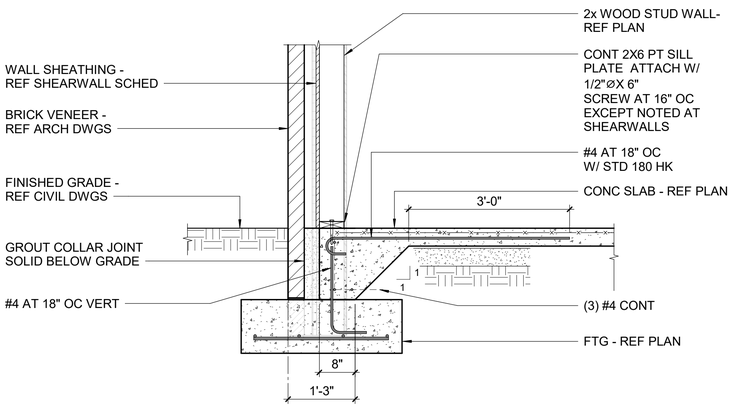

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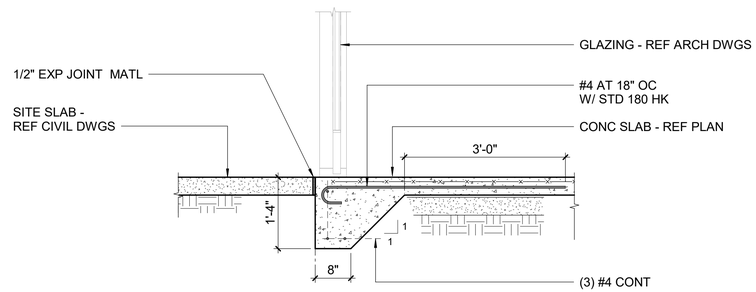

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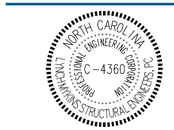

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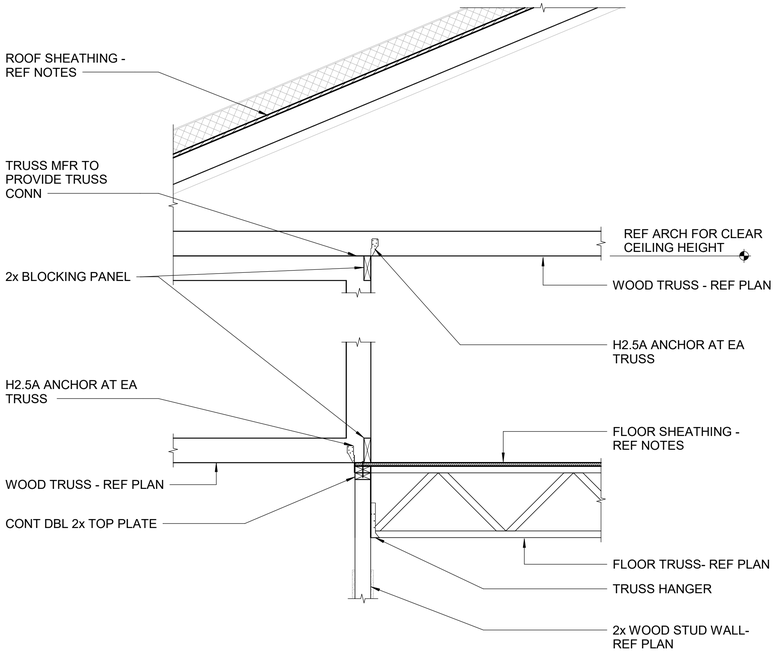
S3.01



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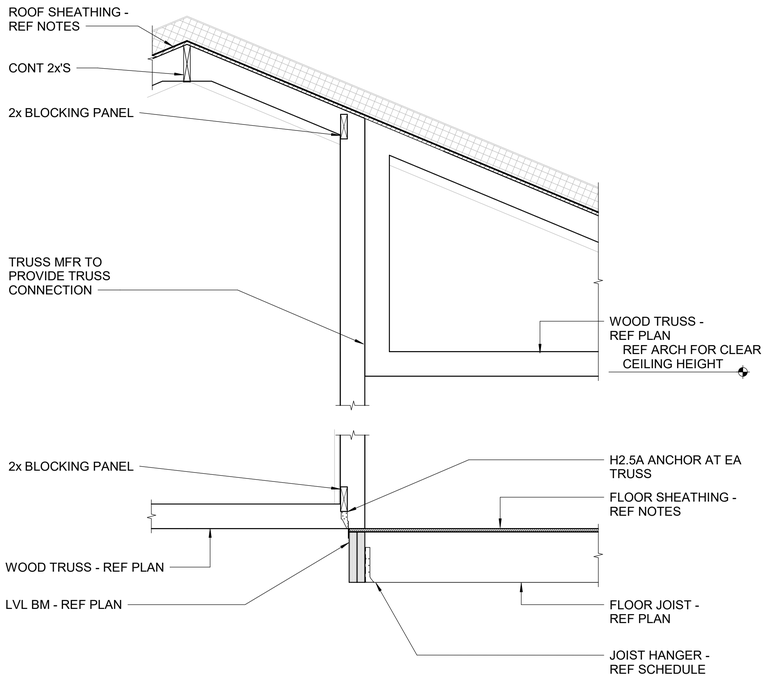

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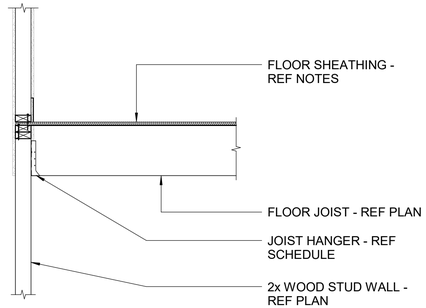

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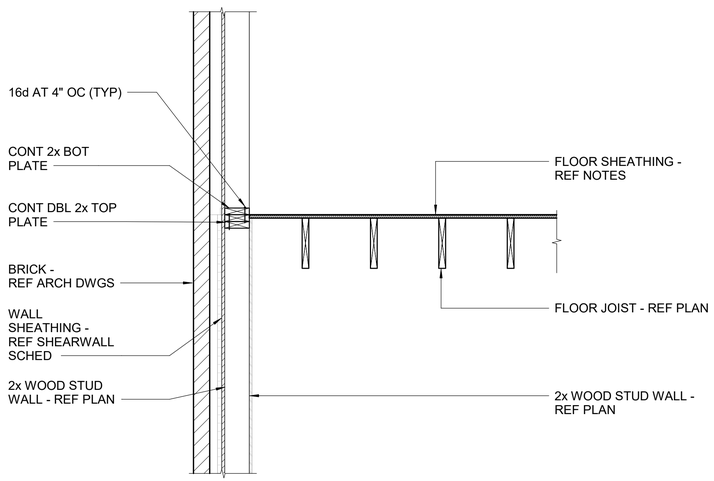

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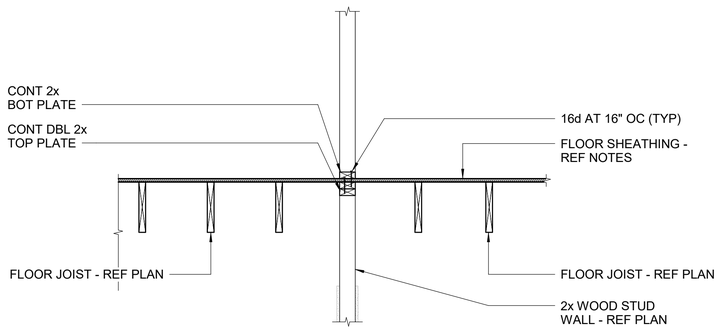

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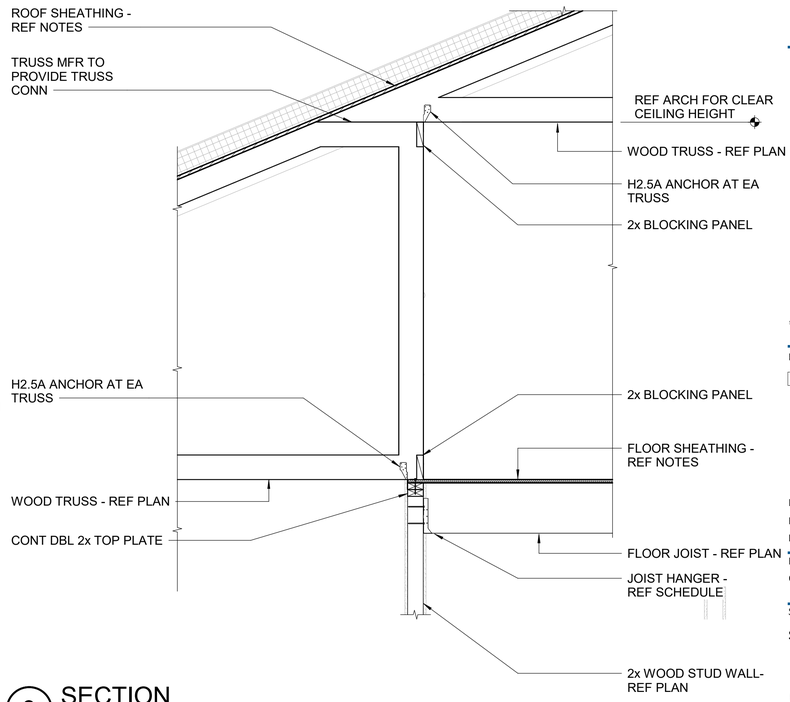

3 SECTION
3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 030253 ENGINEER CHRISTINE M. BENDITCH
07/21/23

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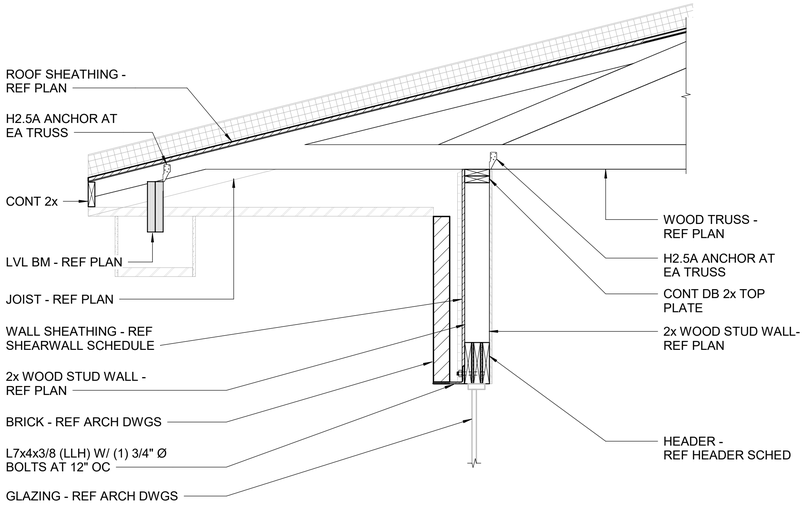
S3.02



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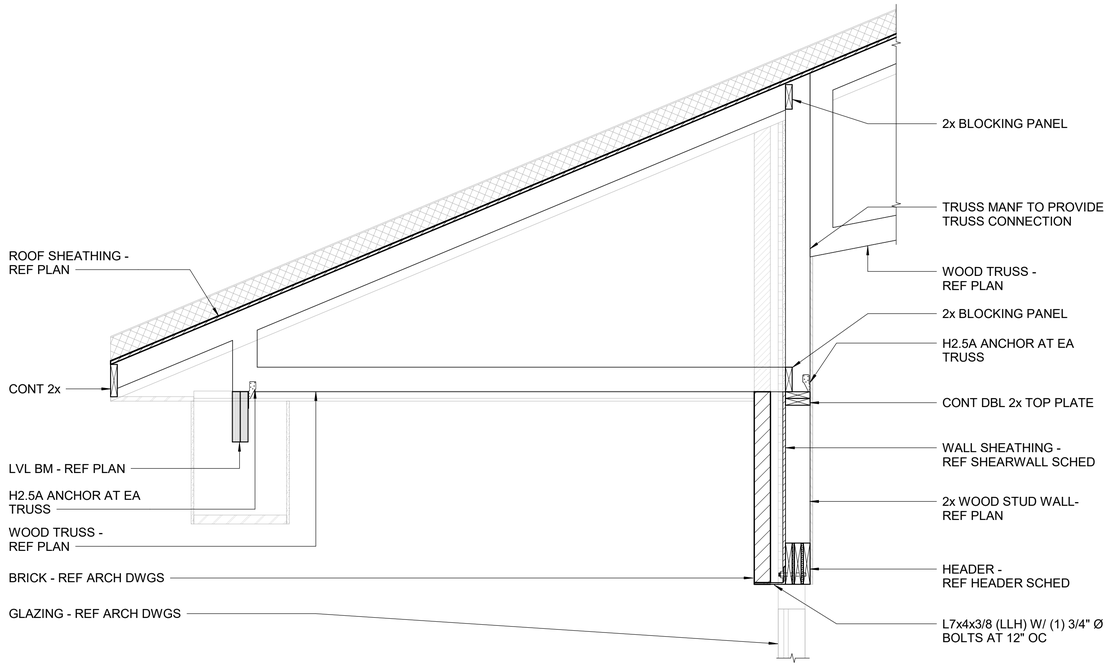

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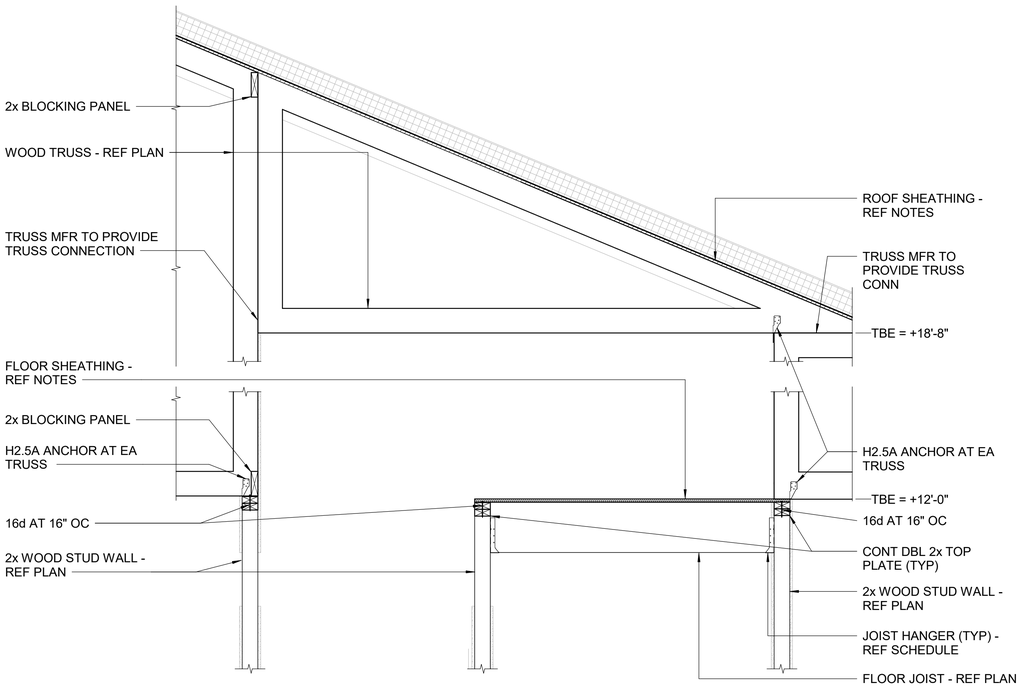

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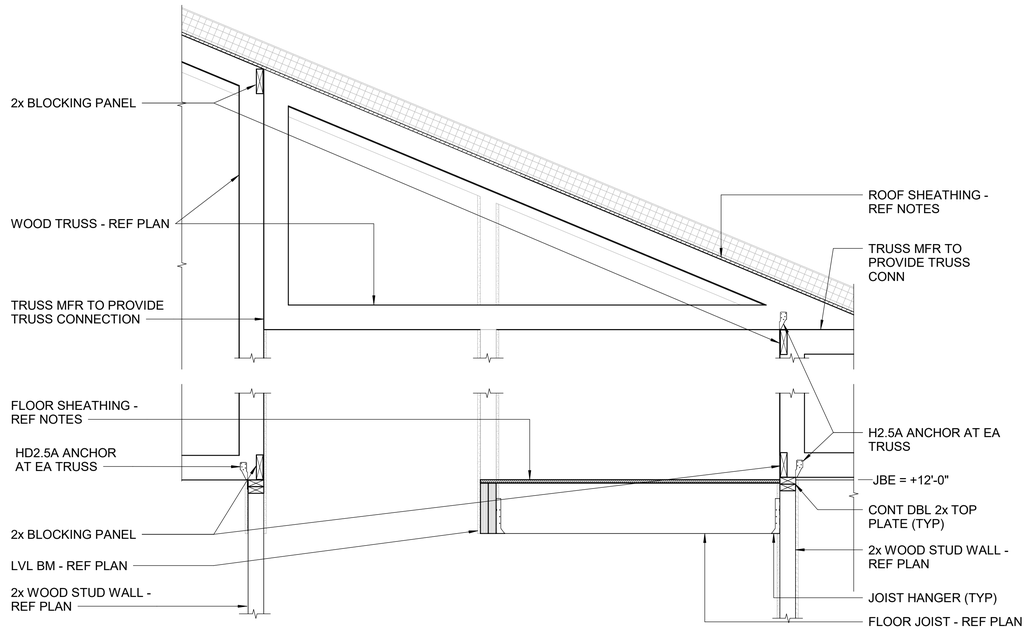

2 SECTION
3/4" = 1'-0"

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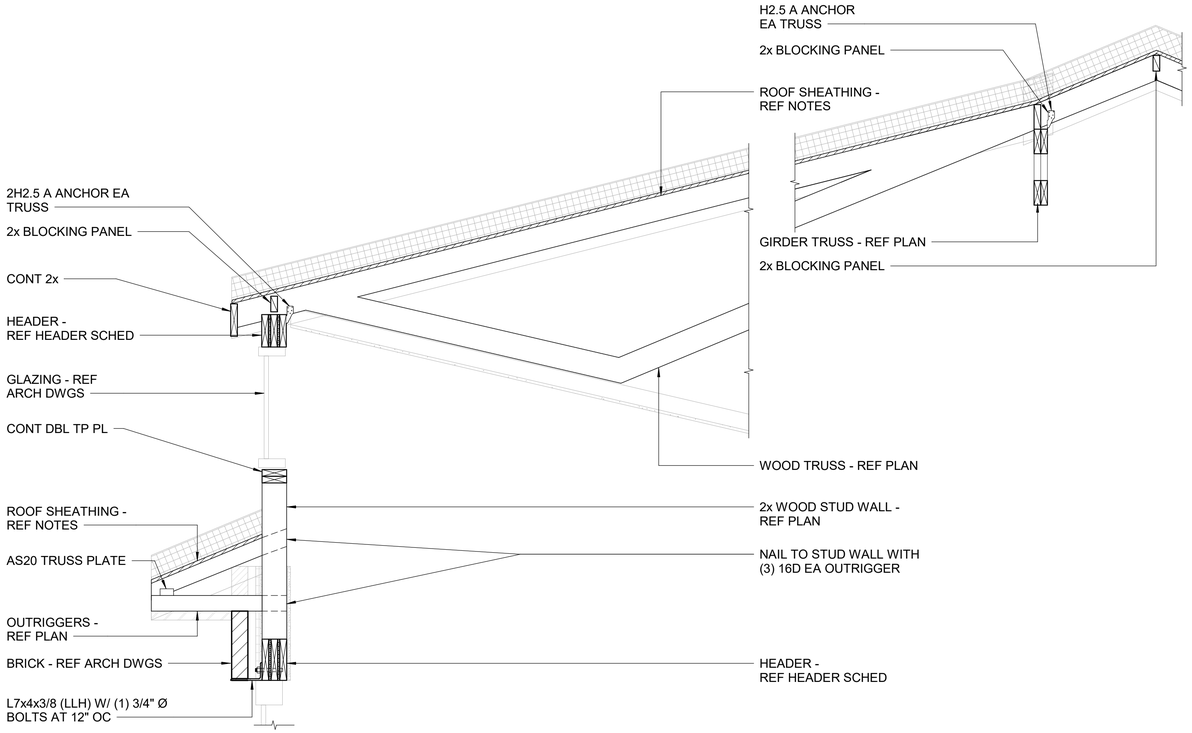
S3.03



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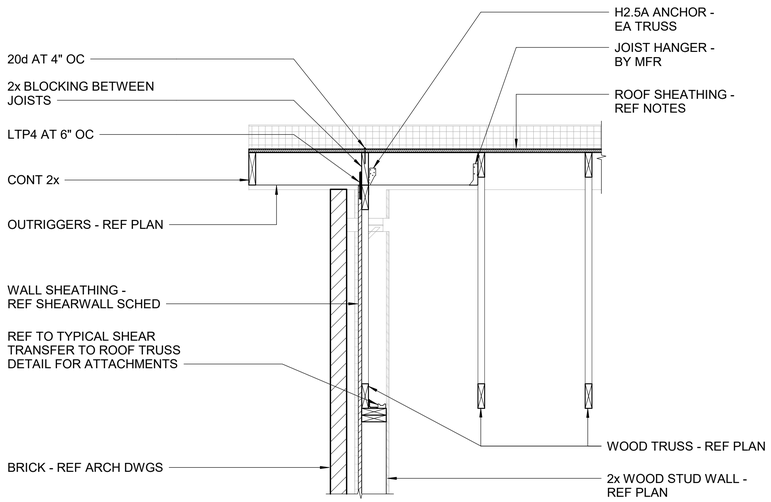

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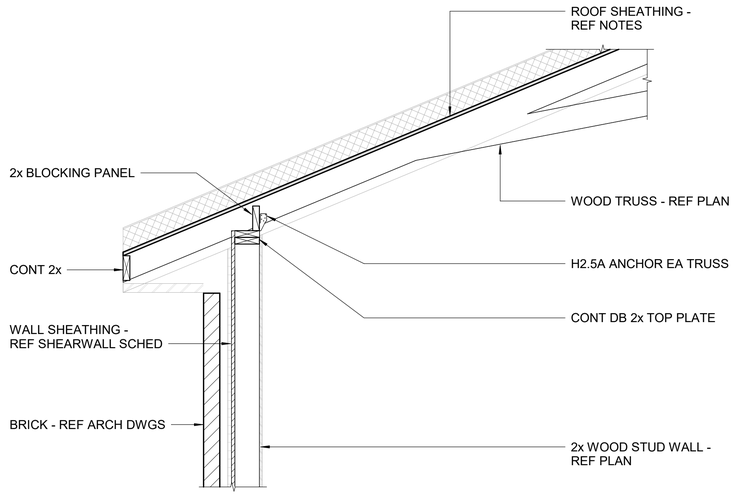

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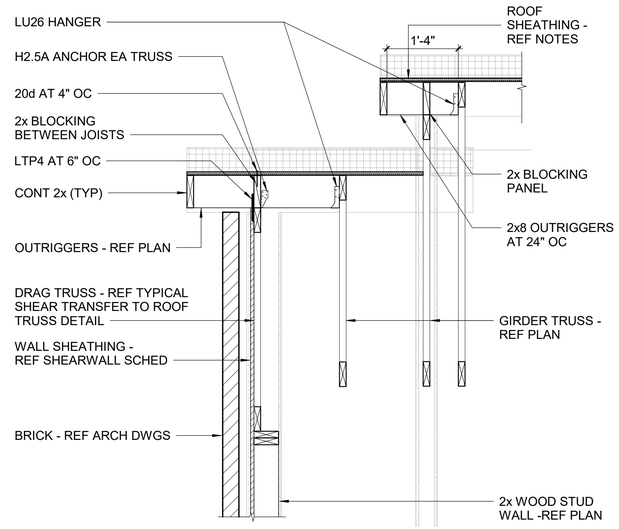

3 SECTION
3/4" = 1'-0"

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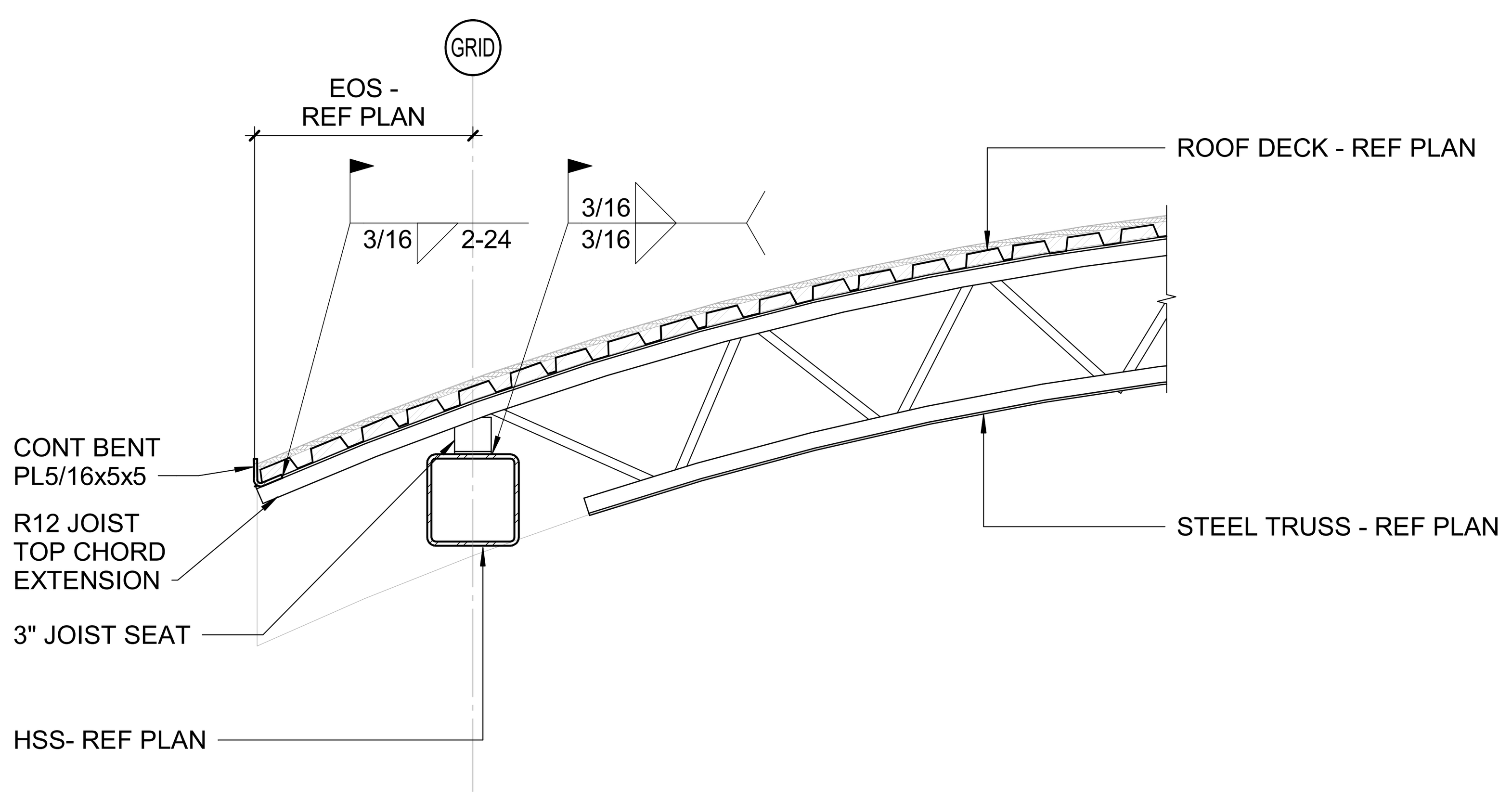
S3.04



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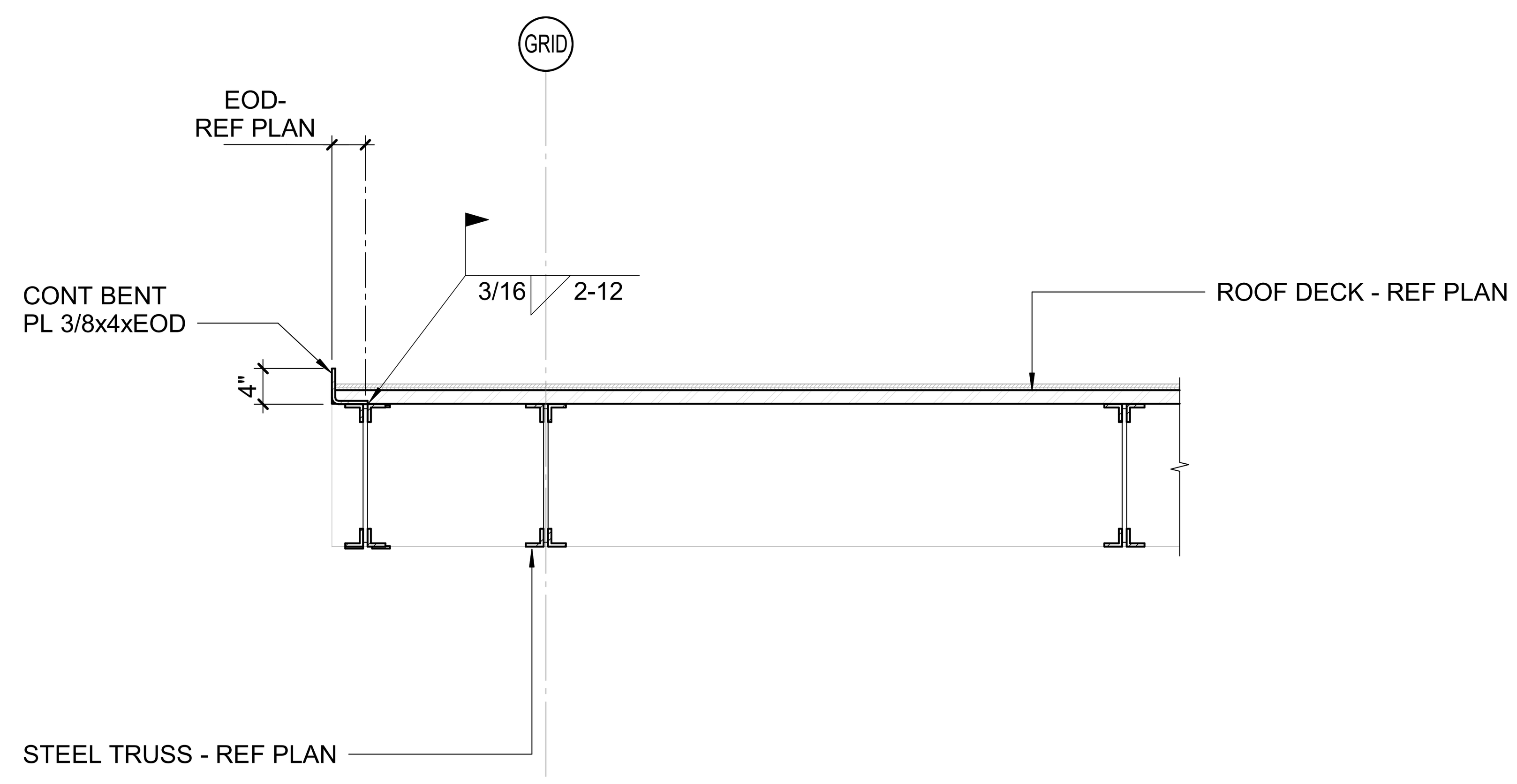

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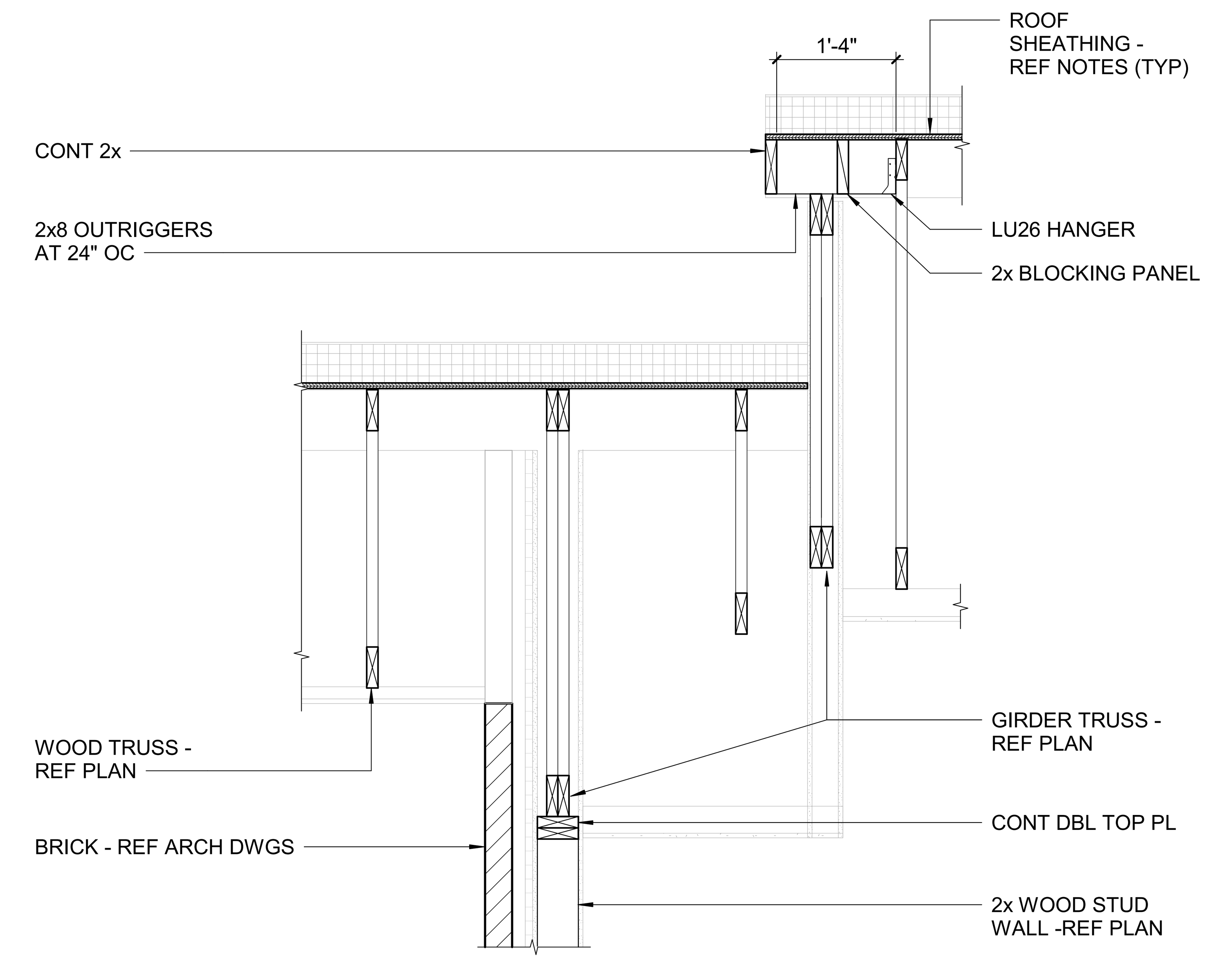

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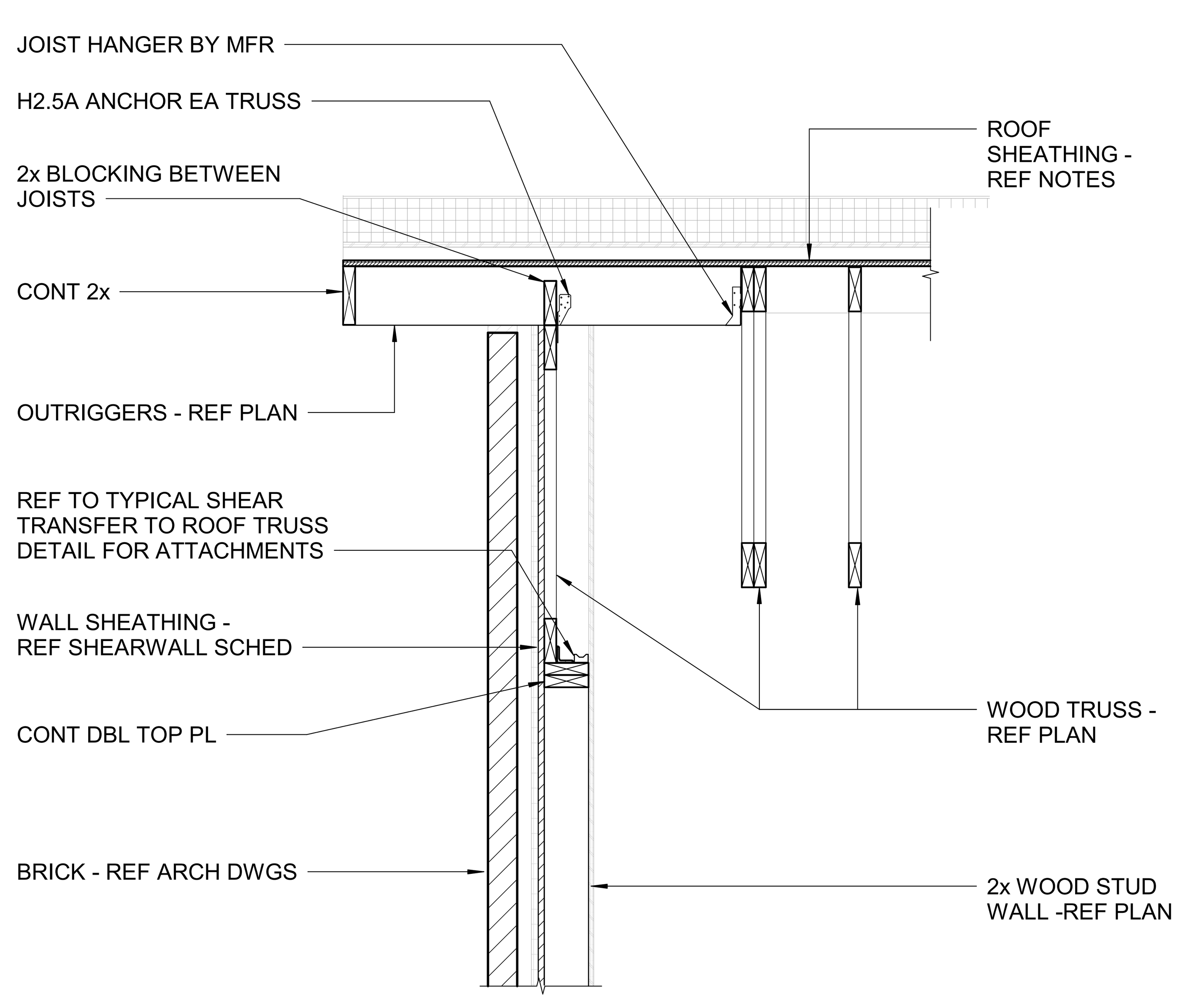

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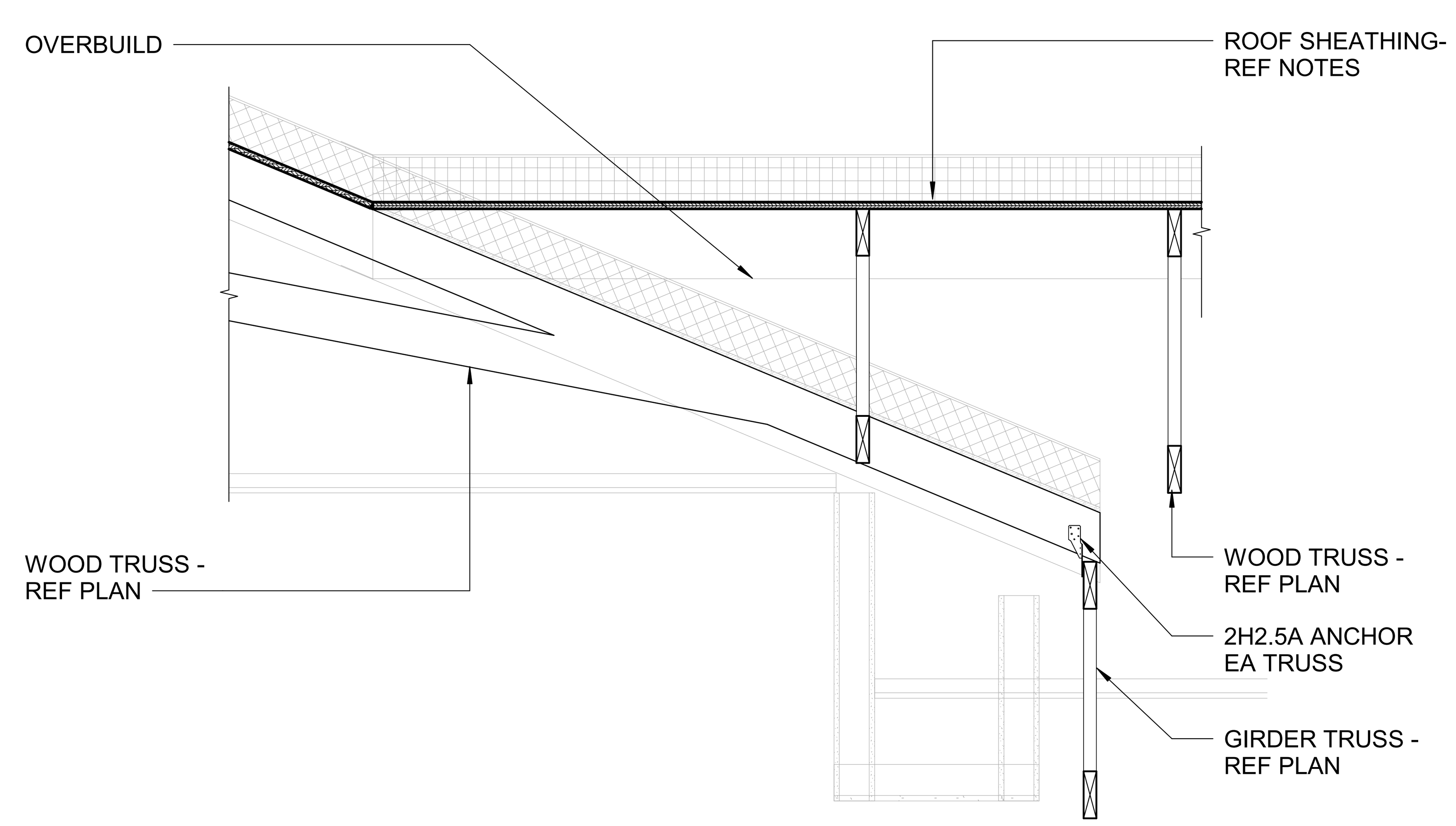

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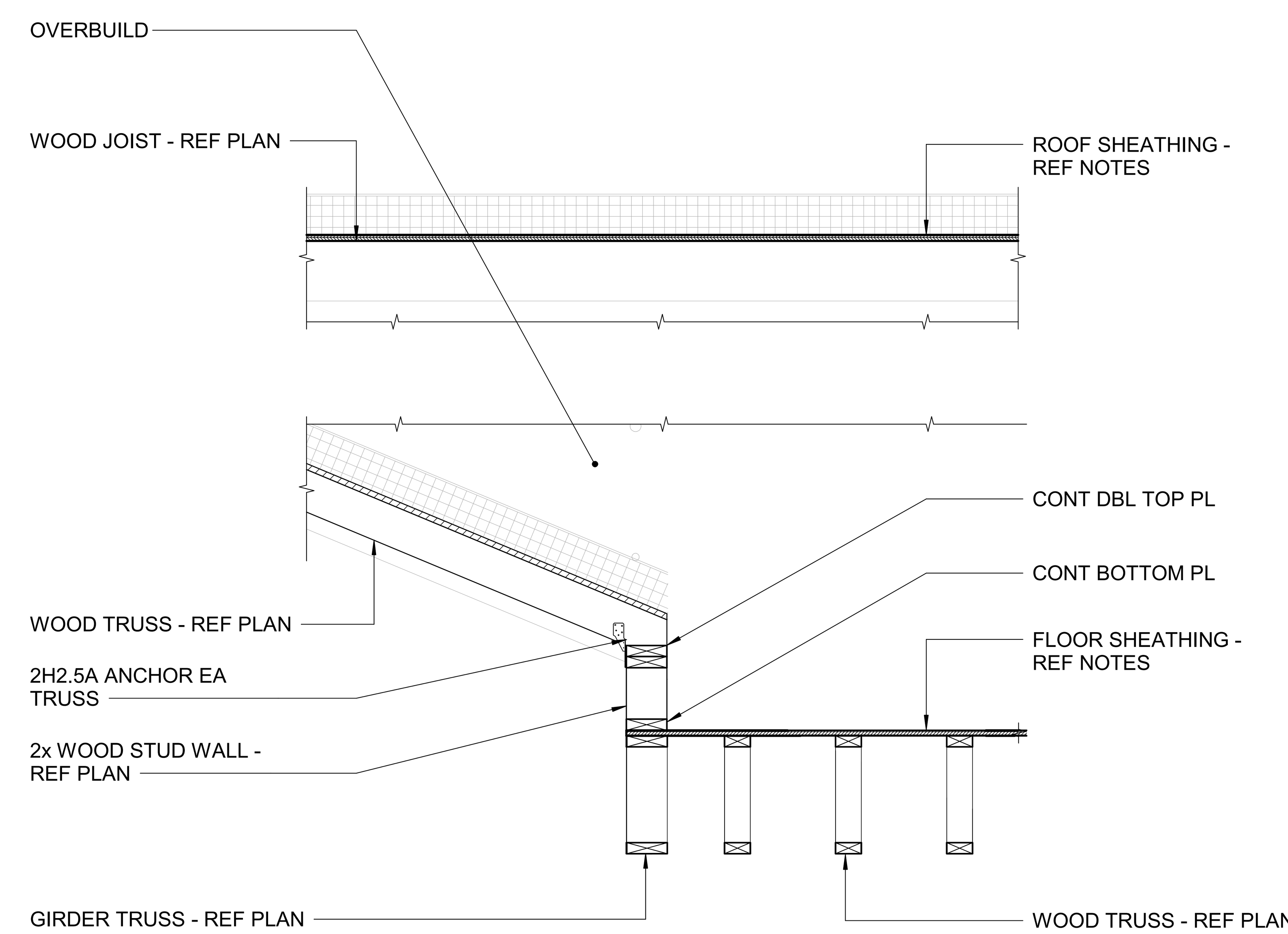

3 SECTION
3/4" = 1'-0"

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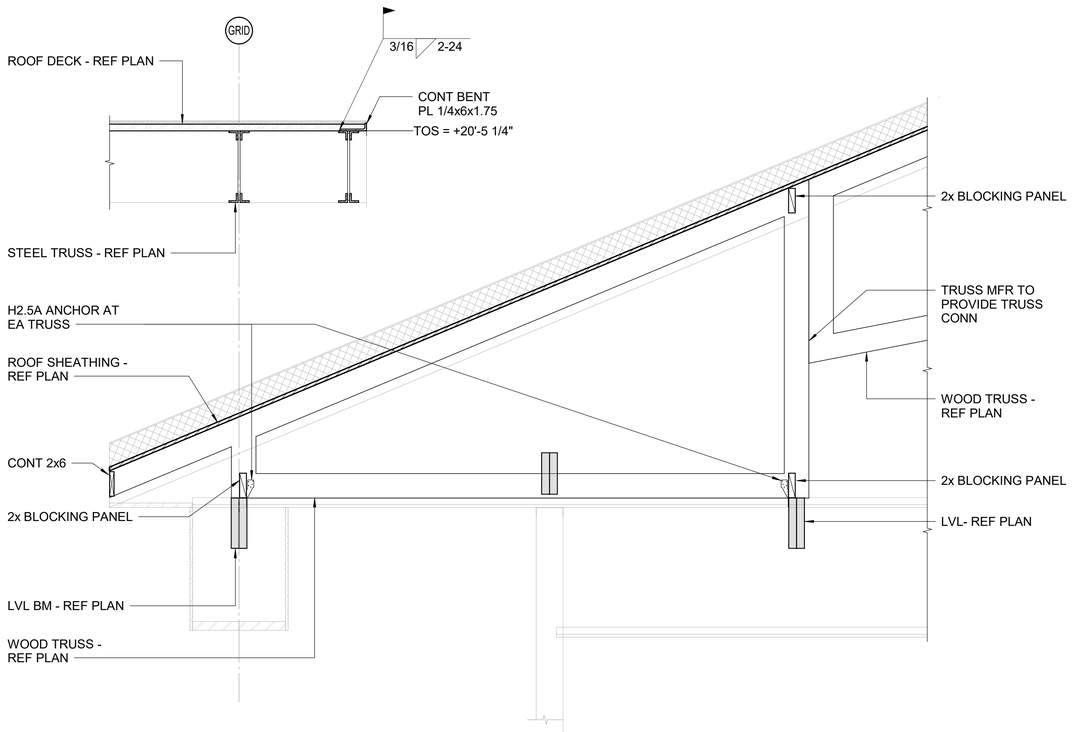
S3.05



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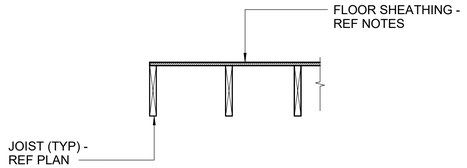

2 SECTION
3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030253 CHRISTINE M. BEDDOW
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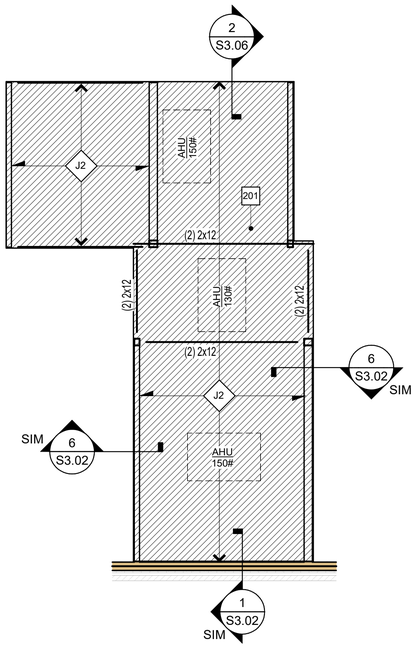
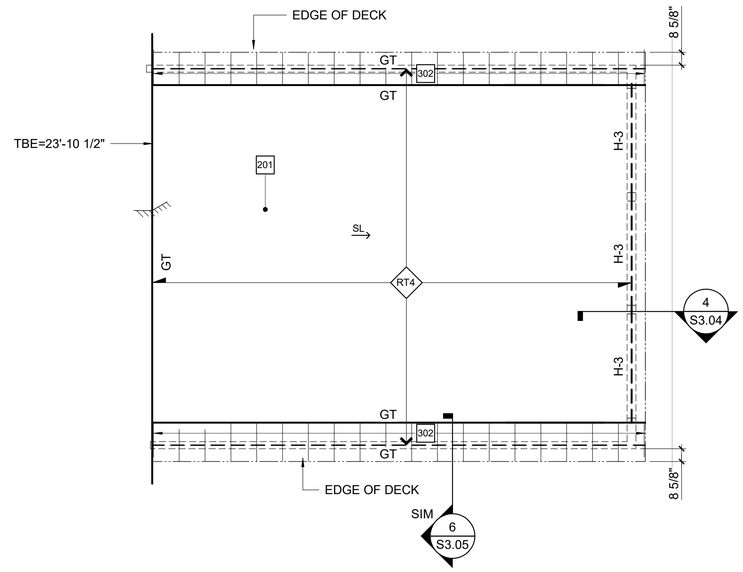
S3.06



2 ENLARGED MEZZANINE FRAMING PLAN

1/4" = 1'-0"



3 ENLARGED ROOF FRAMING PLAN

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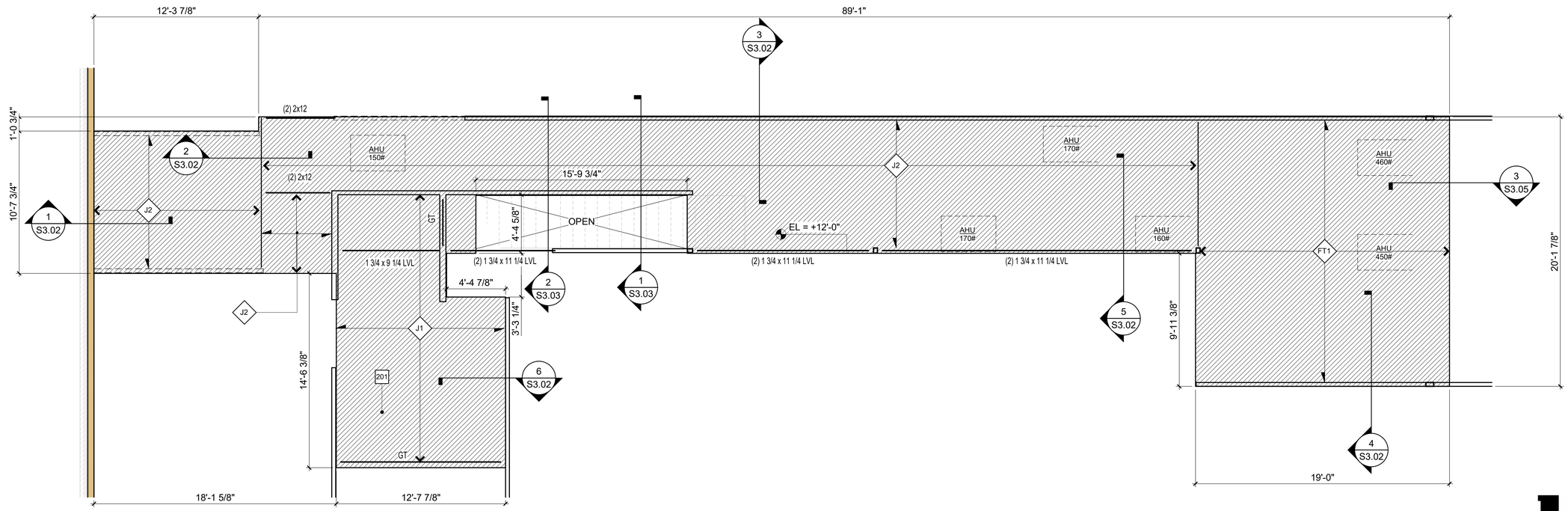

1 ENLARGED MEZZANINE FRAMING PLAN

1/4" = 1'-0"

KEY NOTES

201 PLYWOOD DECK REFER TO ROUGH CARPENTRY NOTES.
302 2x8 OUTRIGGERS AT 24" OC. REFERENCE 1/S3.05

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S4.11

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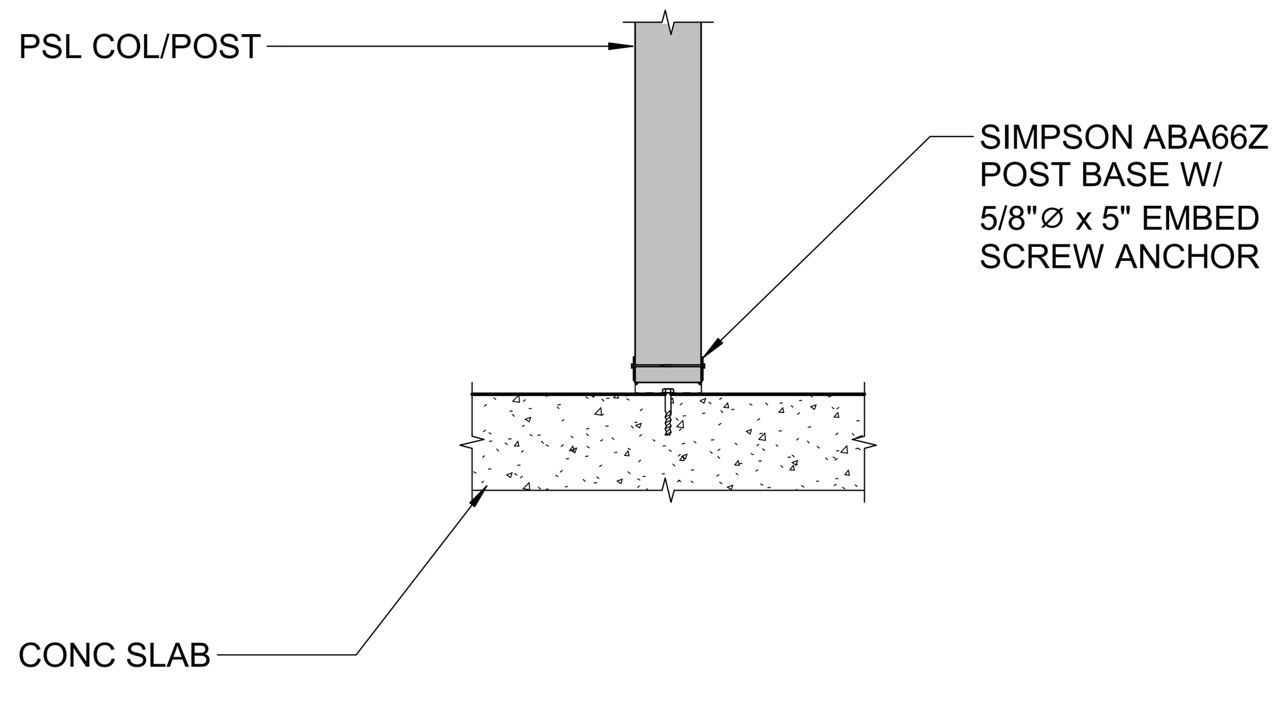
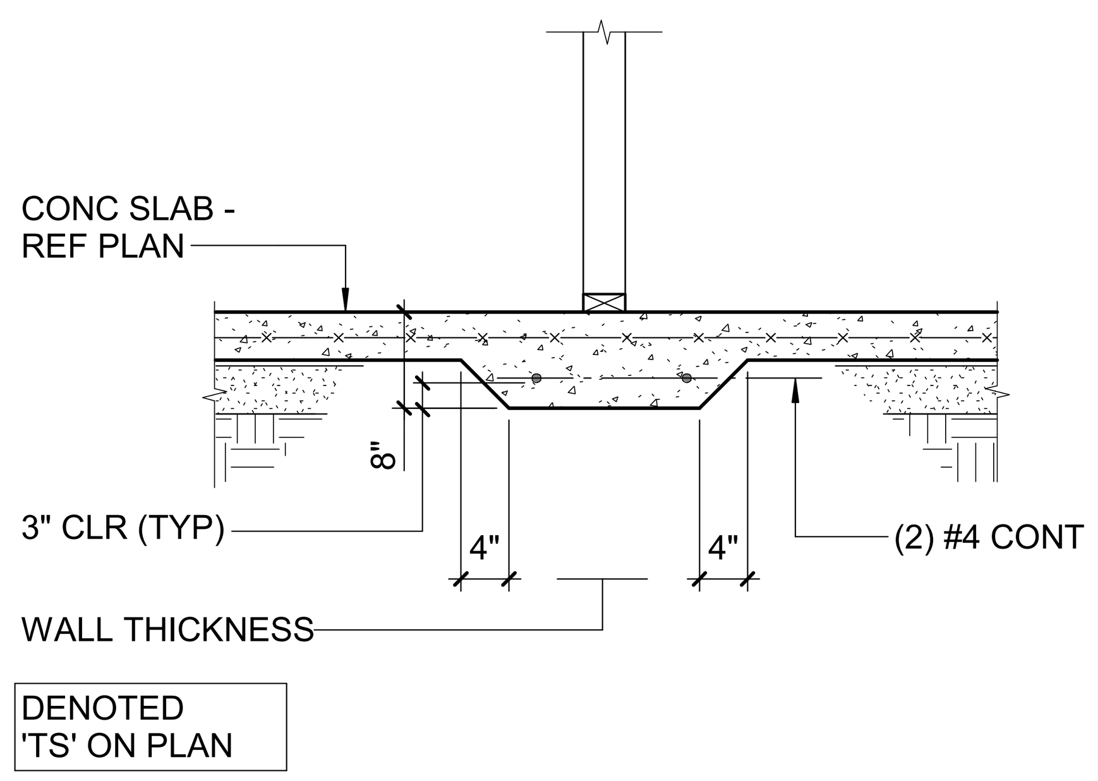
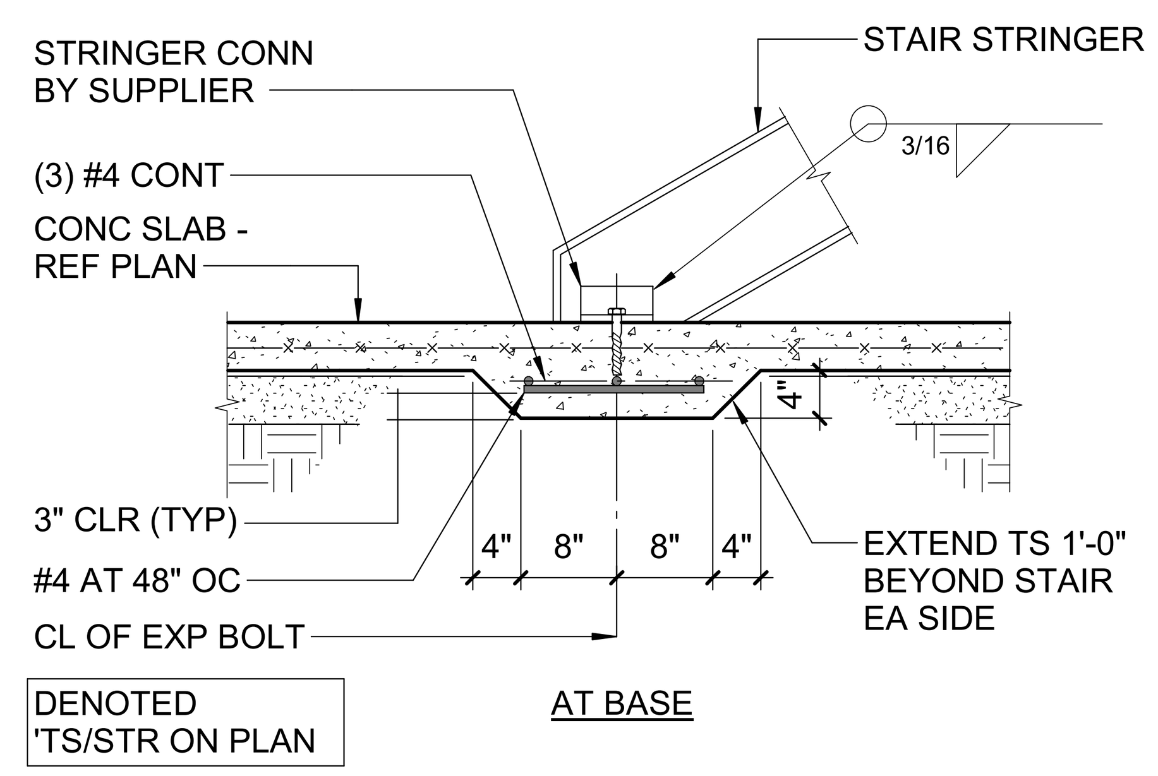


FREE STANDING

12 TYPICAL PSL COLUMN/POST BASE DETAIL
3/4" = 1'-0"



8 TYPICAL THICKENED SLAB DETAIL
NTS



9 TYPICAL THICKENED SLAB AT STAIR LANDING DETAIL
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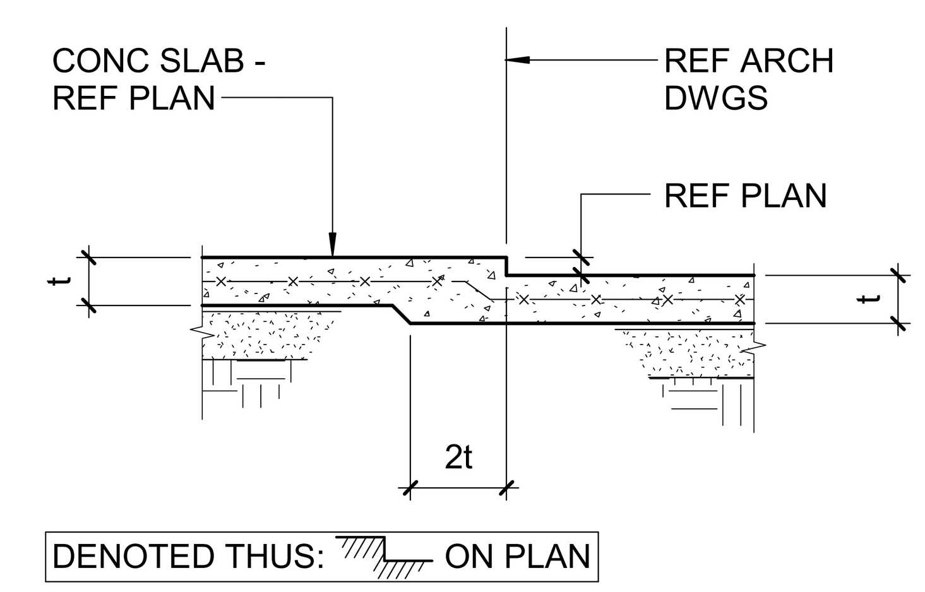

10 TYPICAL DEPRESSED SLAB DETAIL
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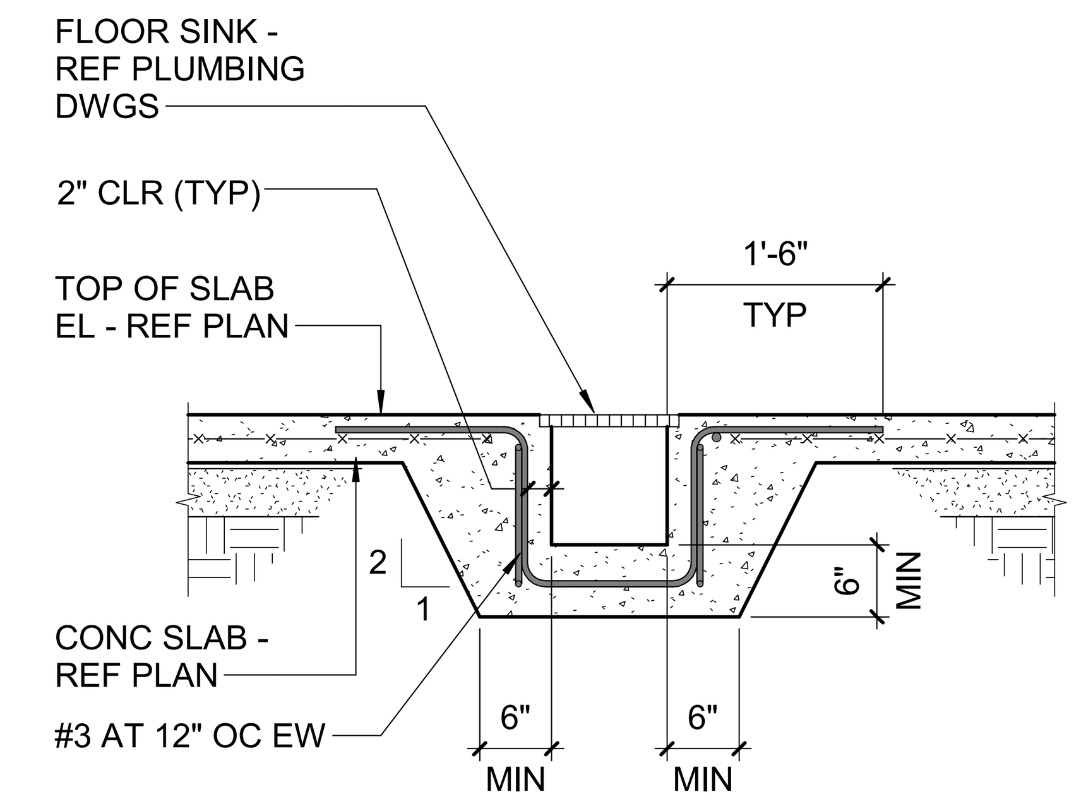

11 TYPICAL FLOOR SINK DETAIL
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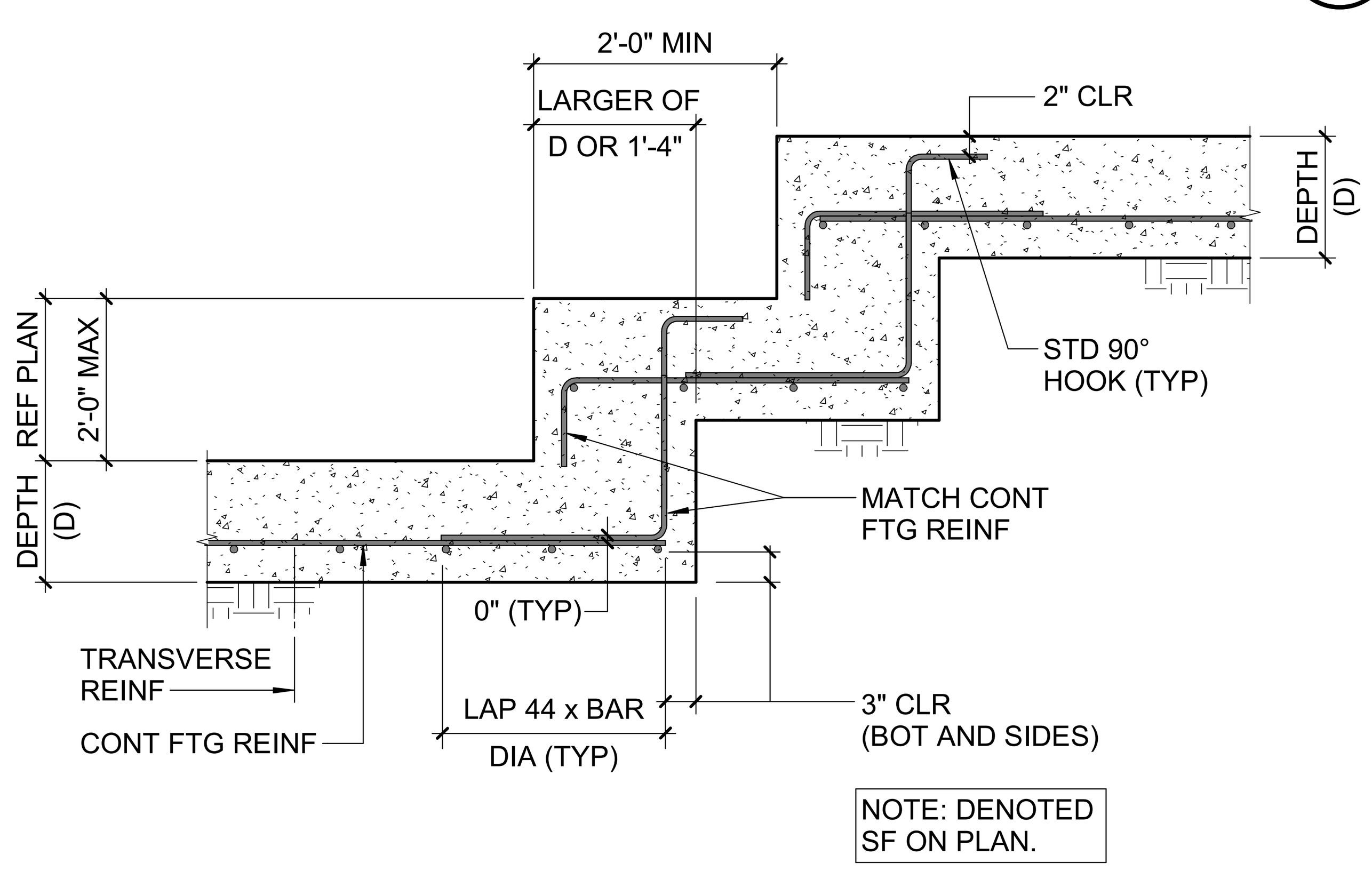
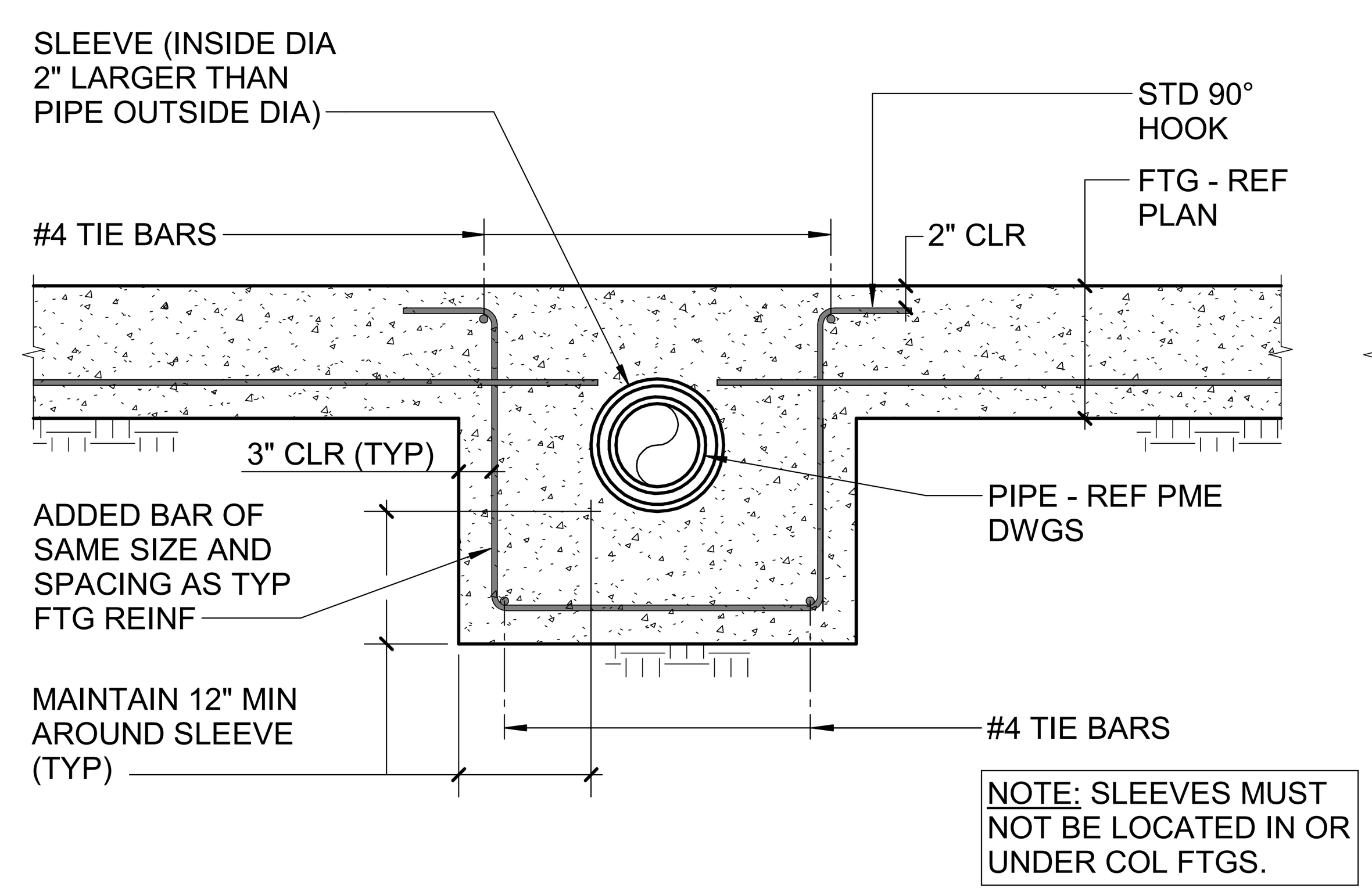
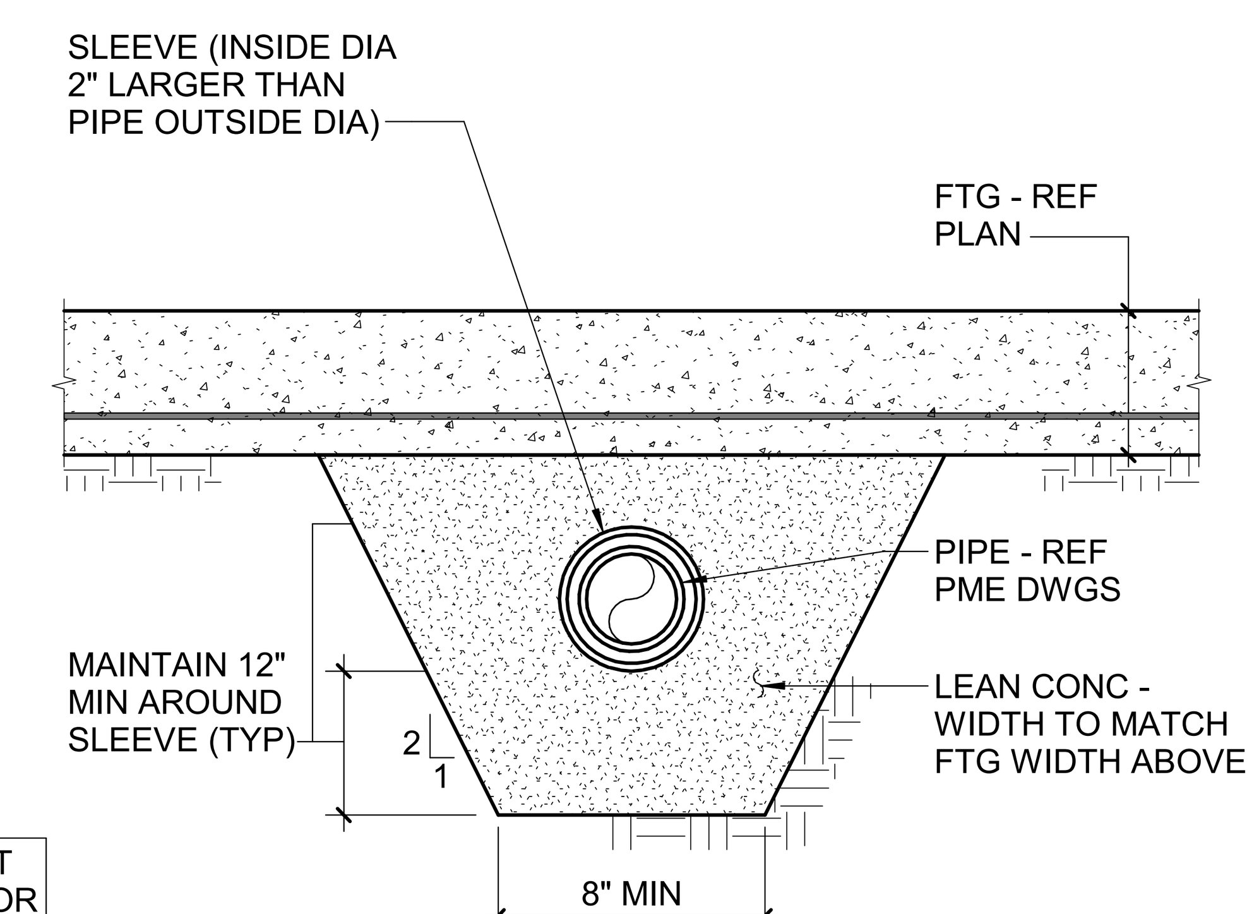


5 TYPICAL STEPPED WALL FOOTING DETAIL
NTS

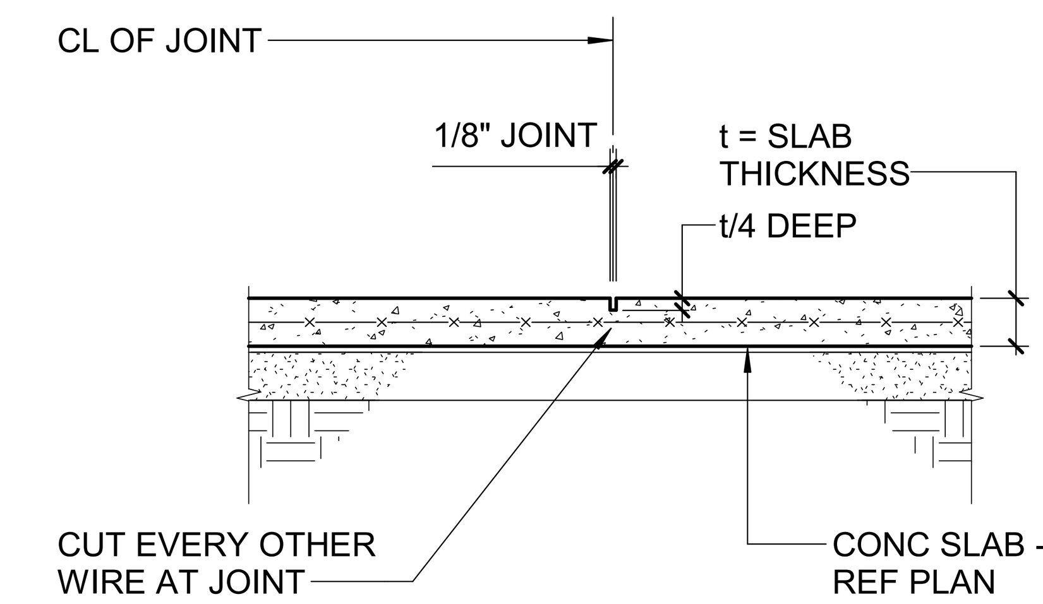


THROUGH FOOTING

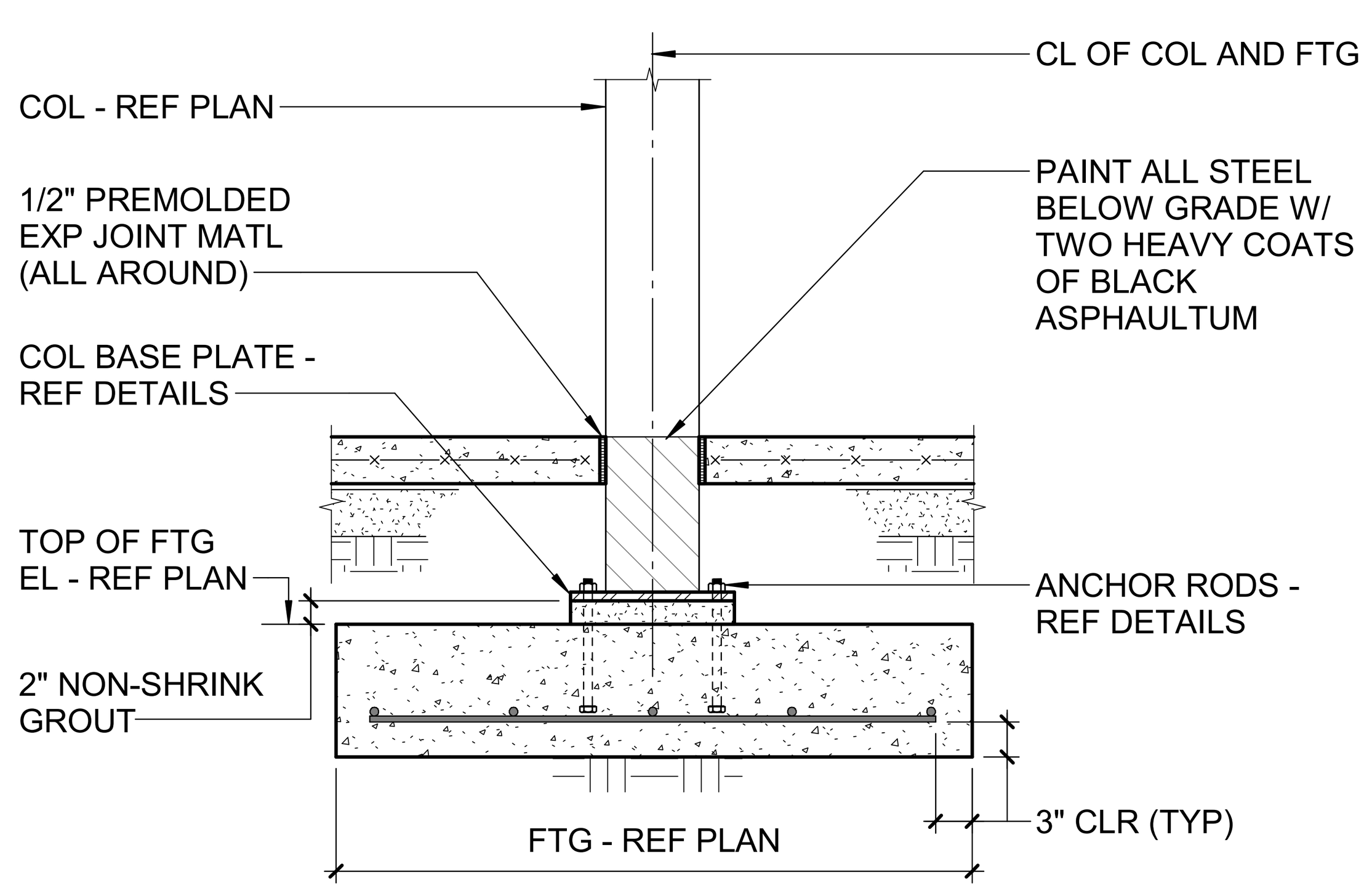


BELOW FOOTING

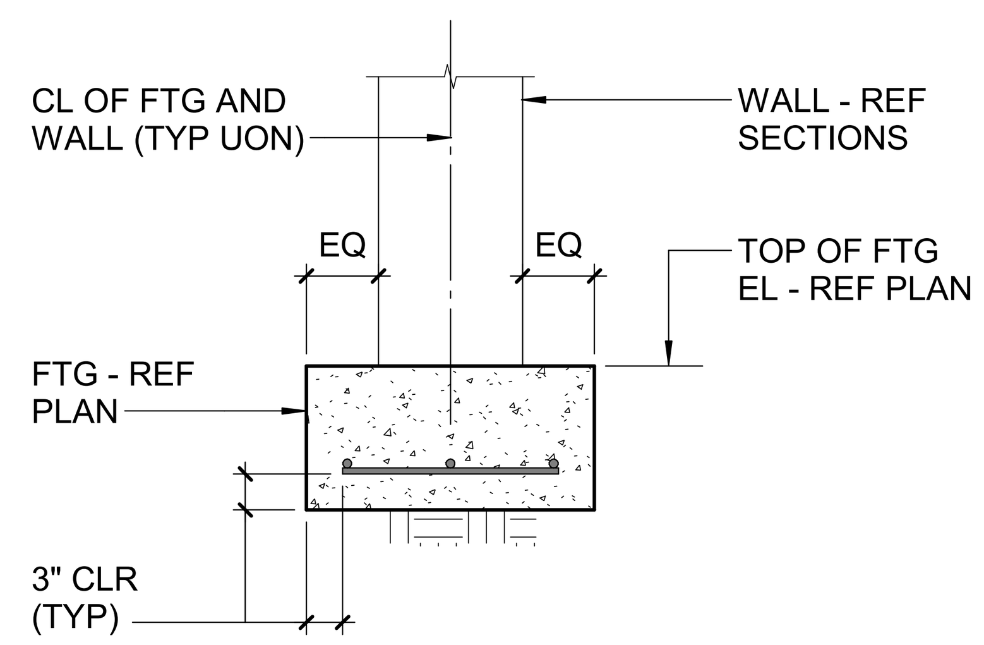
6 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS
NTS



7 TYPICAL SAWED JOINT DETAIL
NTS



1 TYPICAL COLUMN & FOOTING DETAIL
NTS



2 TYPICAL WALL FOOTING DETAIL
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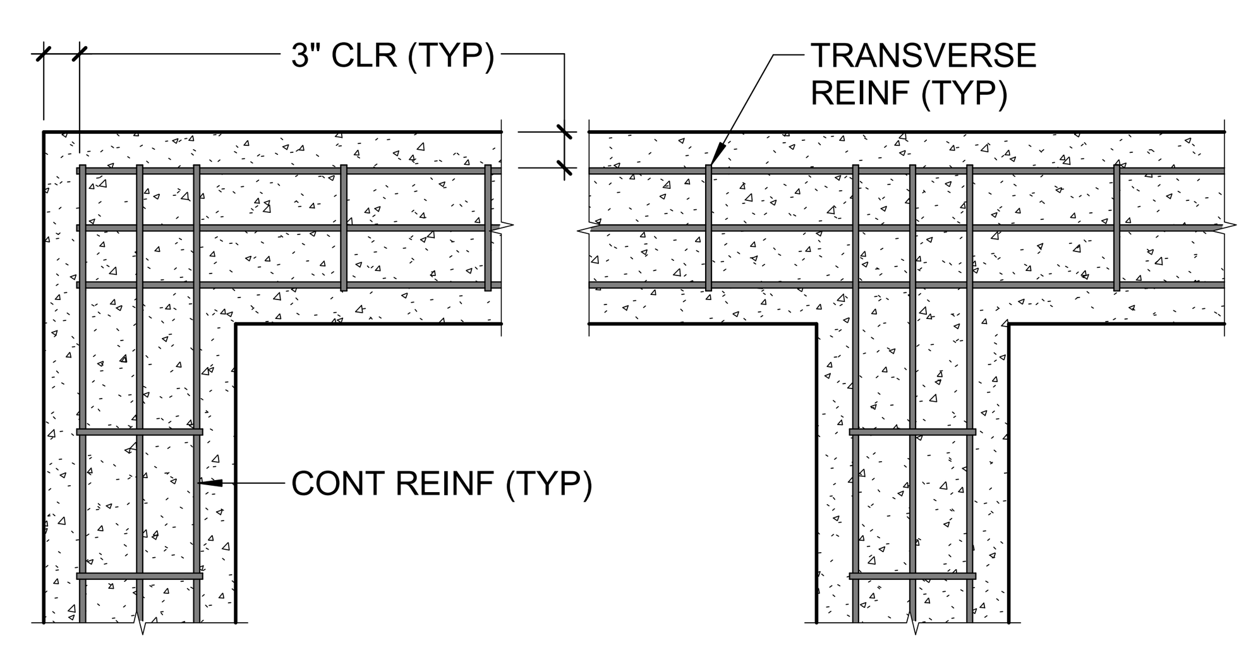
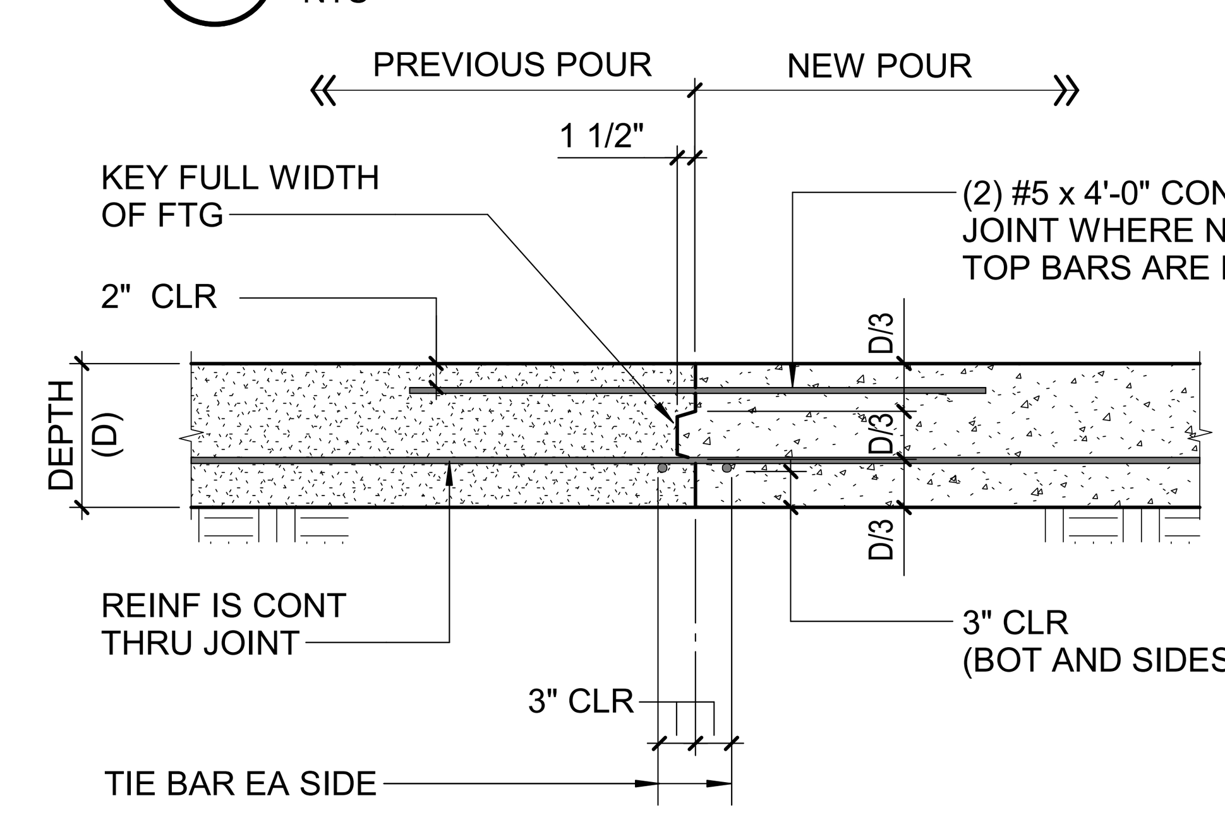


3 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
NTS



4 TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL
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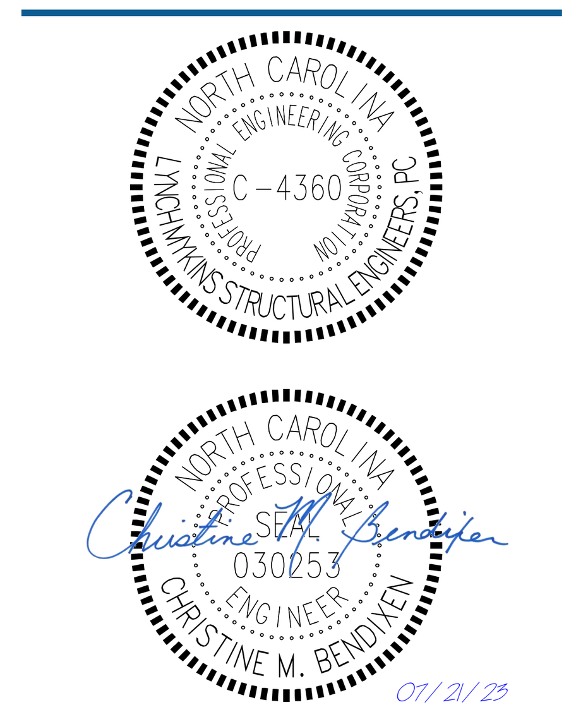

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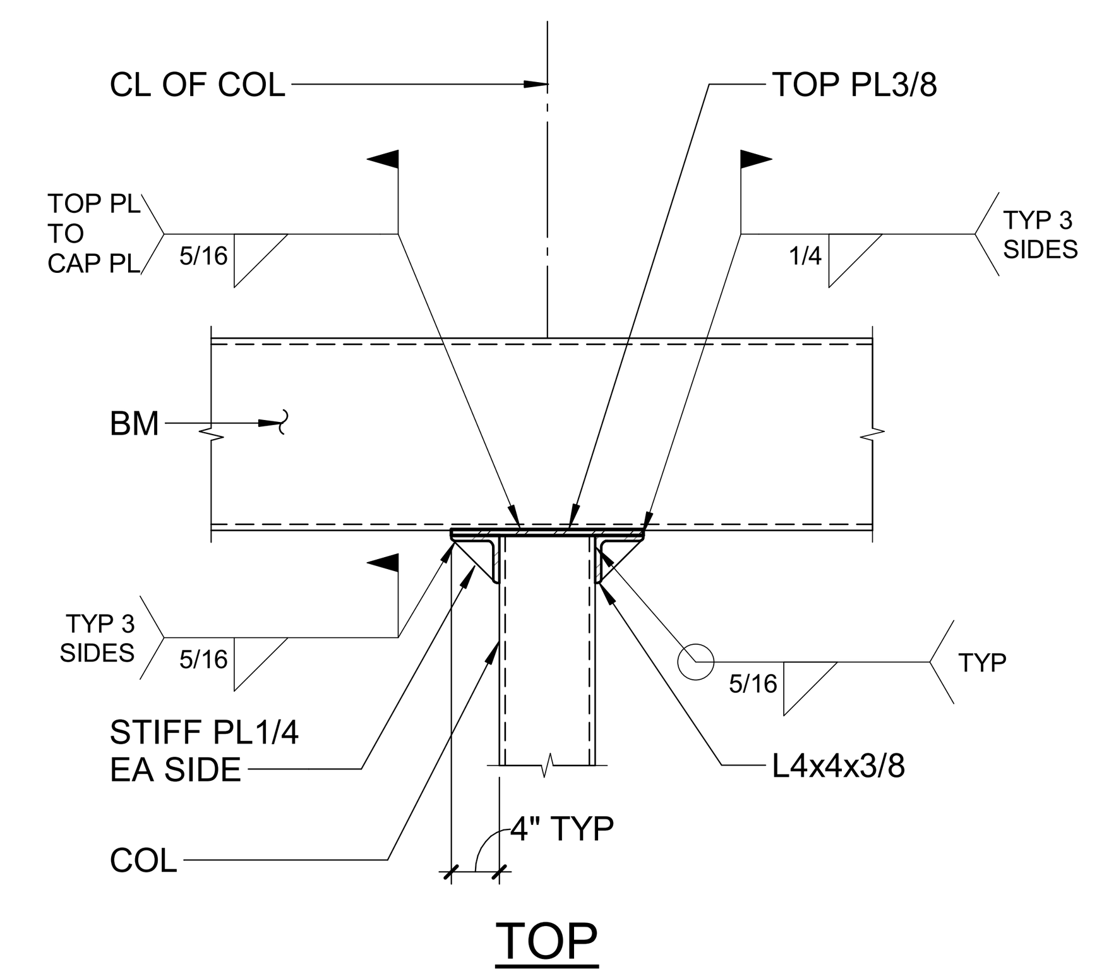
S5.01



3 TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS

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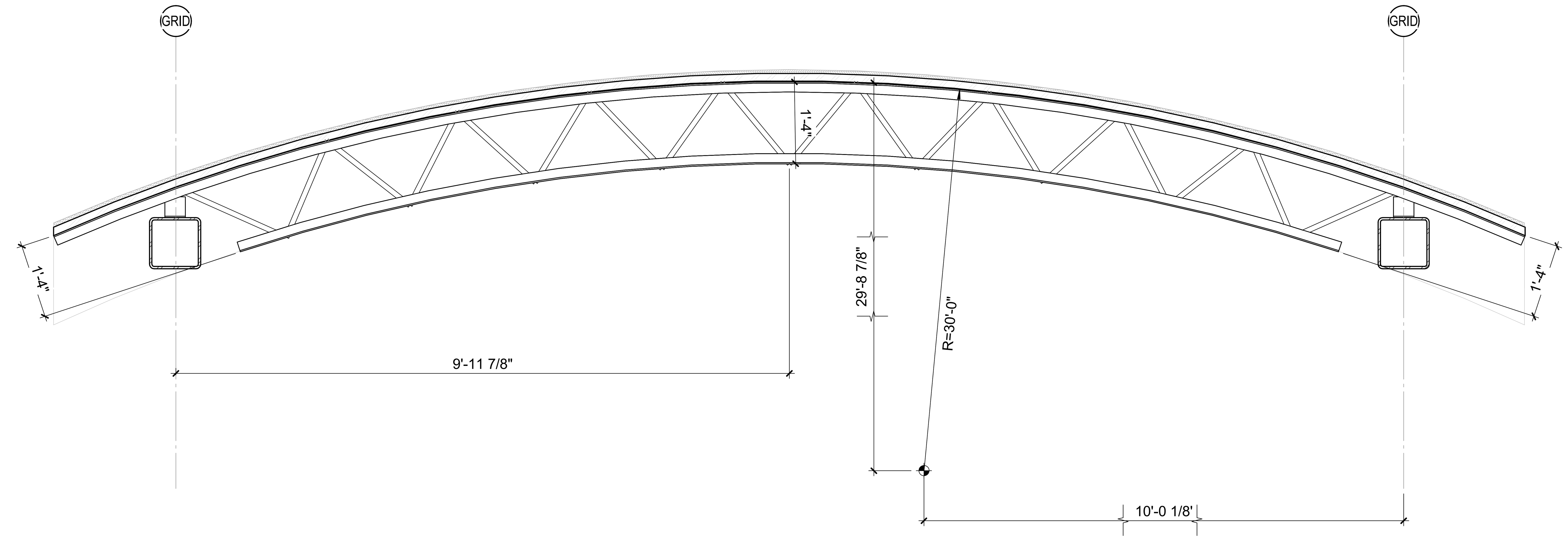

4 TYPICAL 16LH200/100SP AND 16LH40/20SP DETAILS

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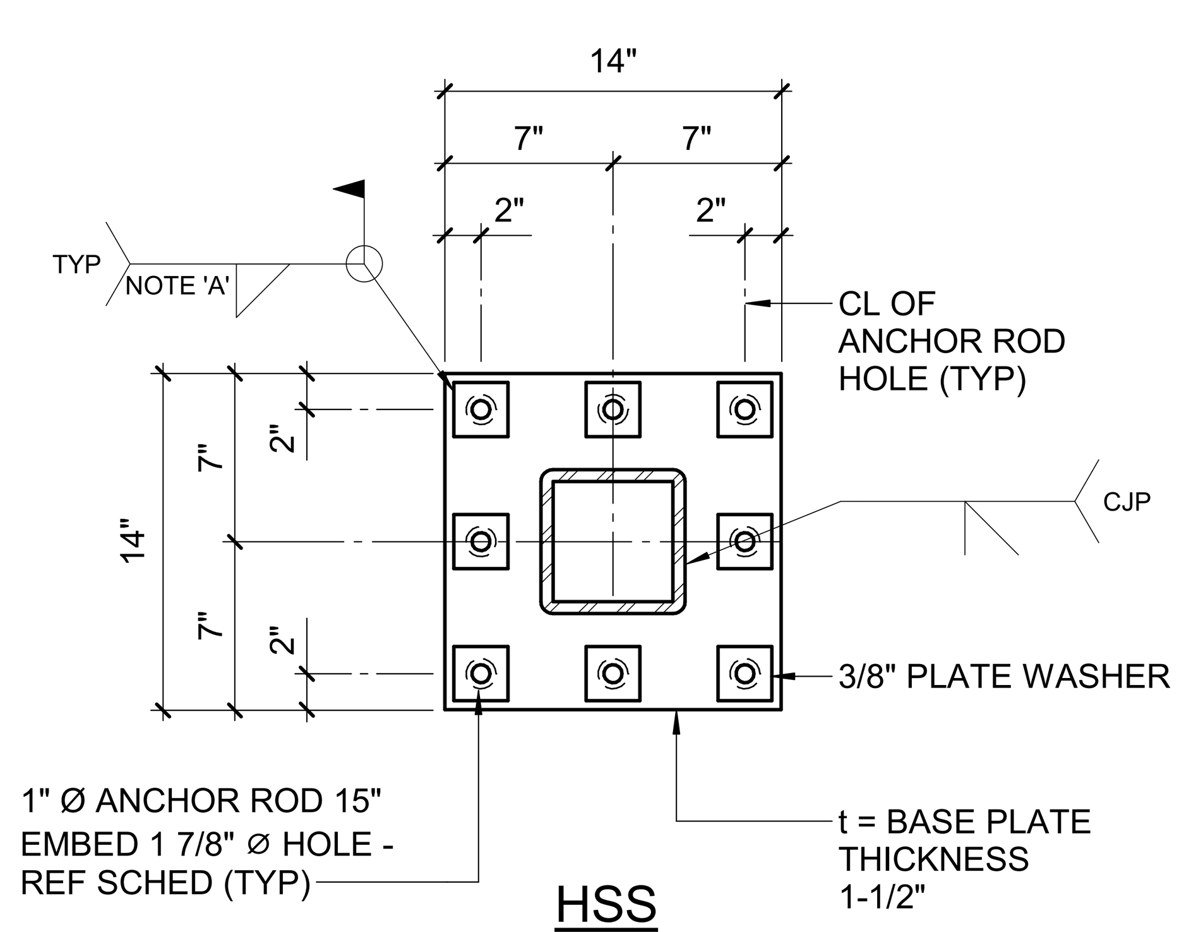

1 BASE PLATE & ANCHOR ROD DETAILS

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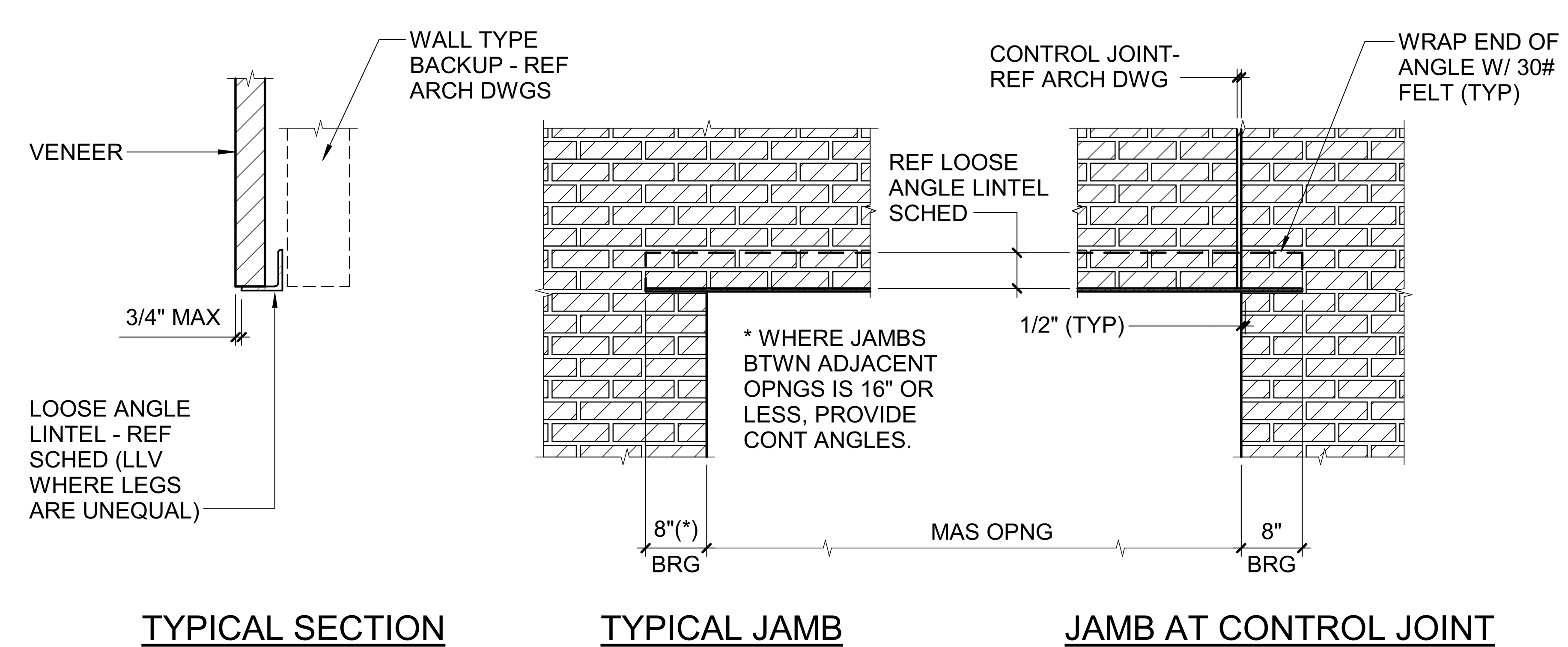
LOOSE ANGLE LINTEL SCHEDULE

CLEAR SPAN	SIZE
0 TO 3'-4"	L4x4x3/4
3'-5" TO 6'-4"	L7x4x3/8 (LLV)

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. LINTEL SCHEDULE APPLIES ONLY TO LINTEL ANGLES NOT OTHERWISE DETAILED.



2 TYPICAL LOOSE ANGLE LINTELS IN BRICK WALLS

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KENANSVILLE, NC 28349

NORTH CAROLINA PROFESSIONAL ENGINEERING C-4360 LYNCH MIKUS STRUCTURAL ENGINEERS
NORTH CAROLINA PROFESSIONAL ENGINEER 030253 CHRISTINE M. BENDIXEN 07/21/23

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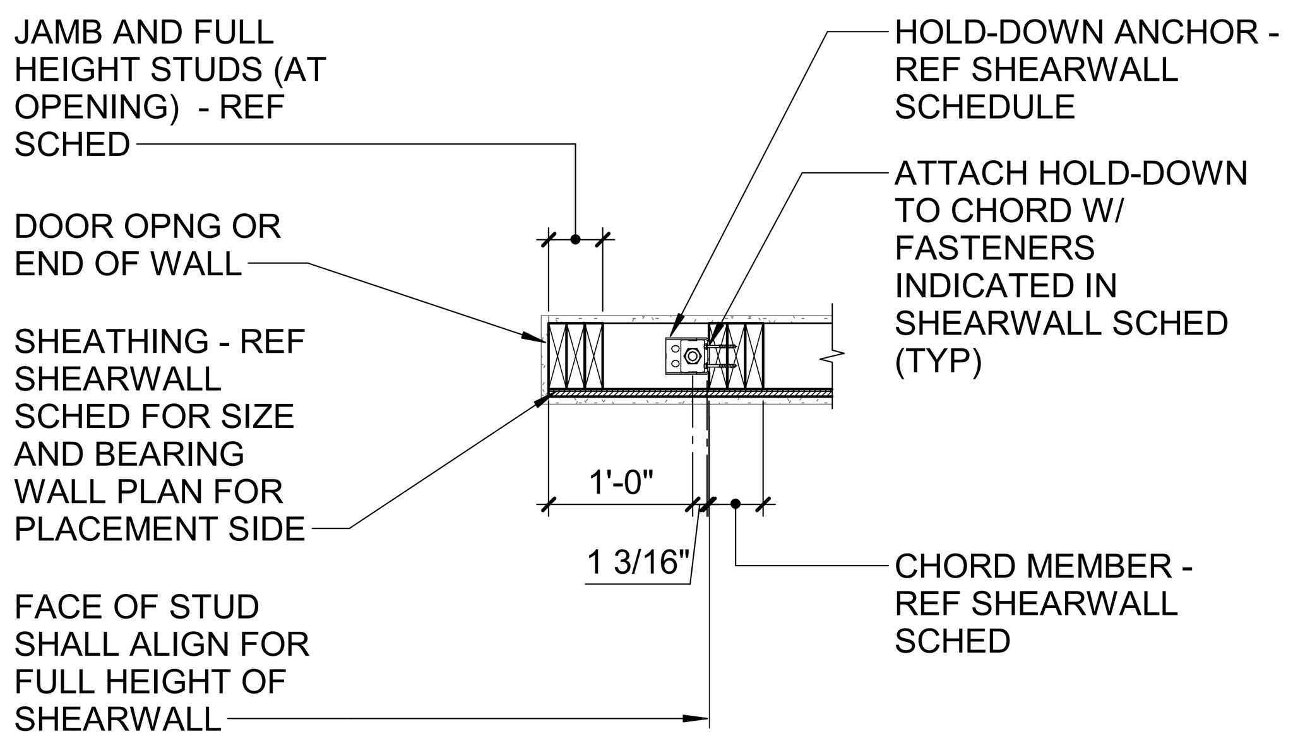
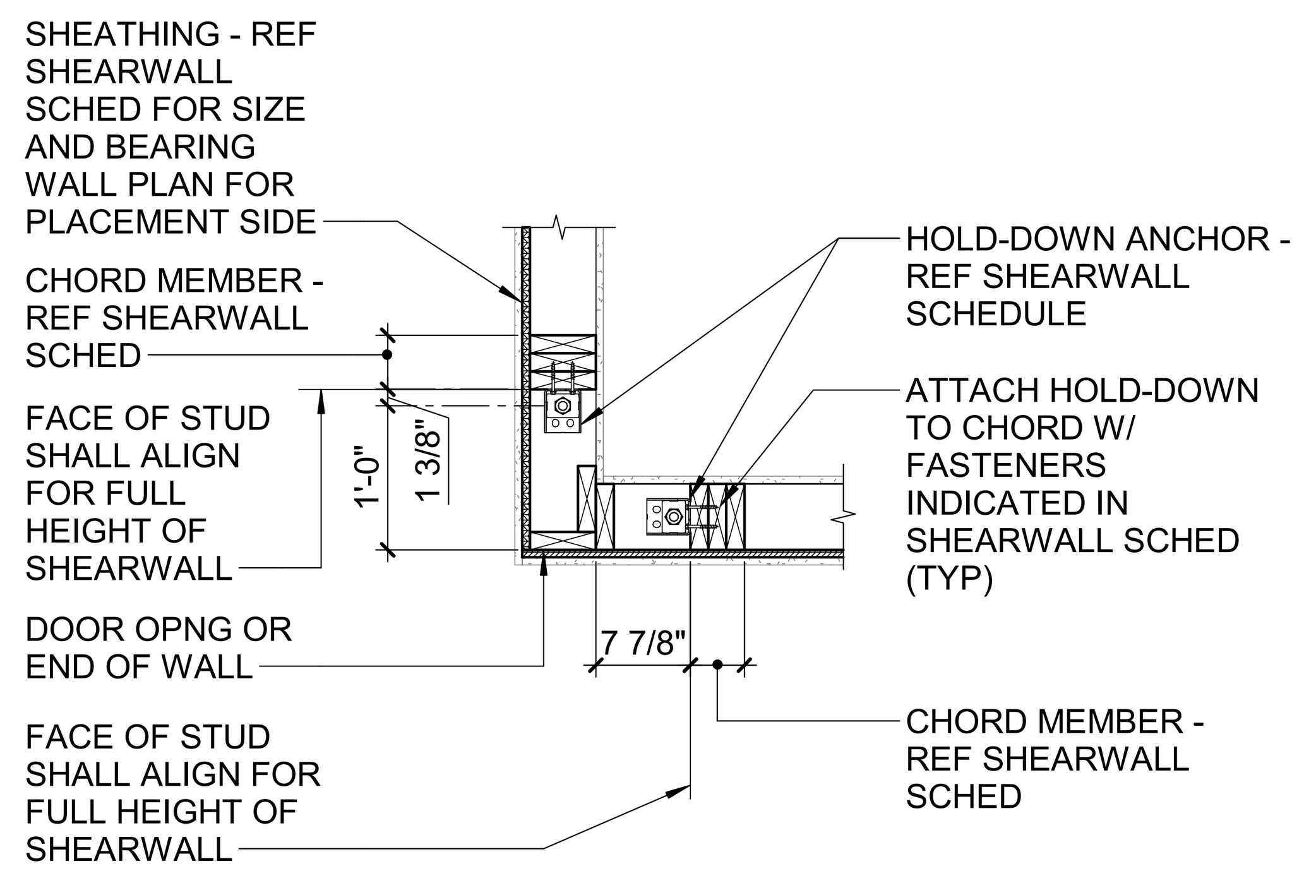
SHEET NAME & NUMBER
TYPICAL DETAILS

S5.02



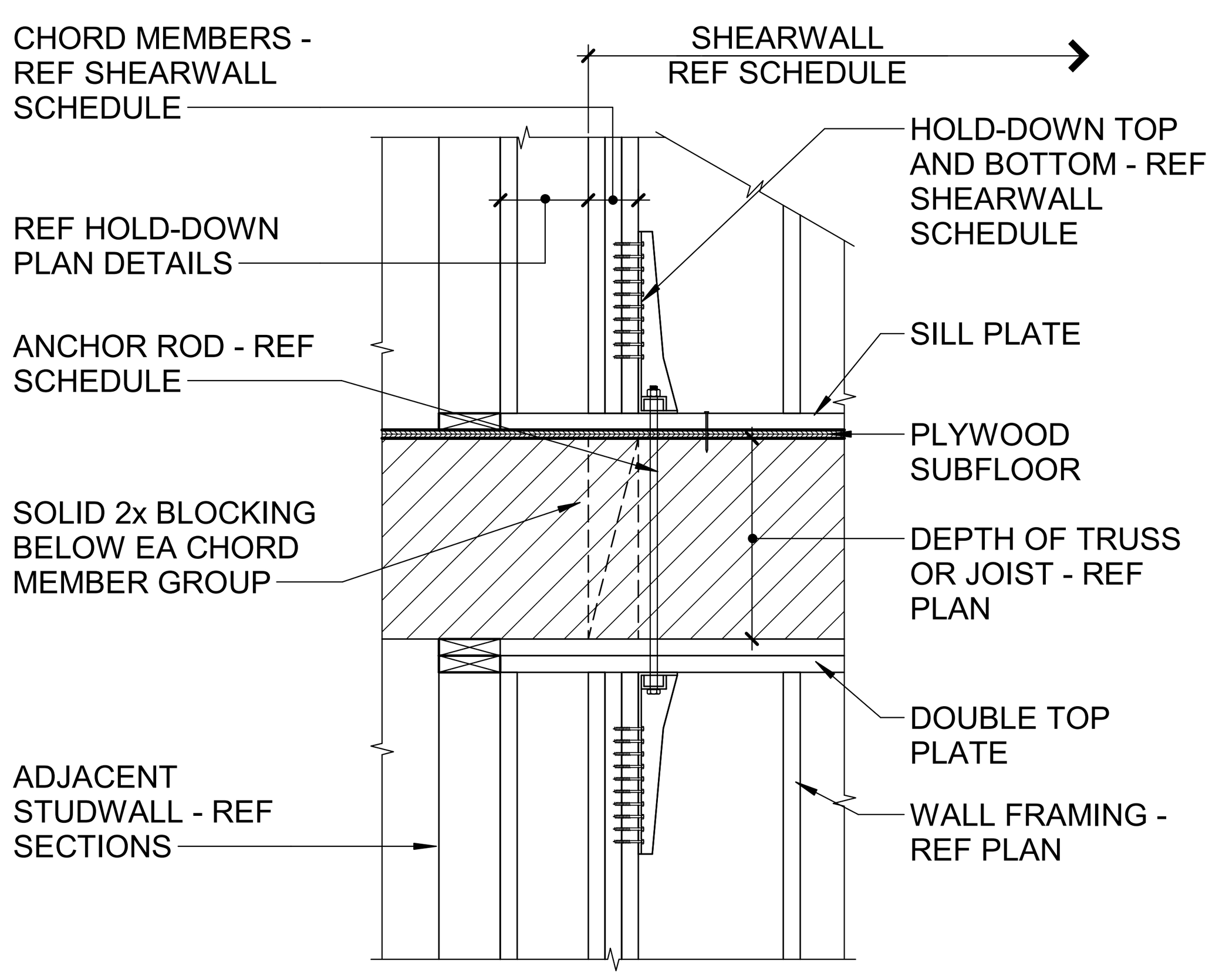
AT BEARING OR END OF WALL



AT CORNERS

2 TYPICAL PLAN DETAILS AT SINGLE HOLD-DOWNS

NTS

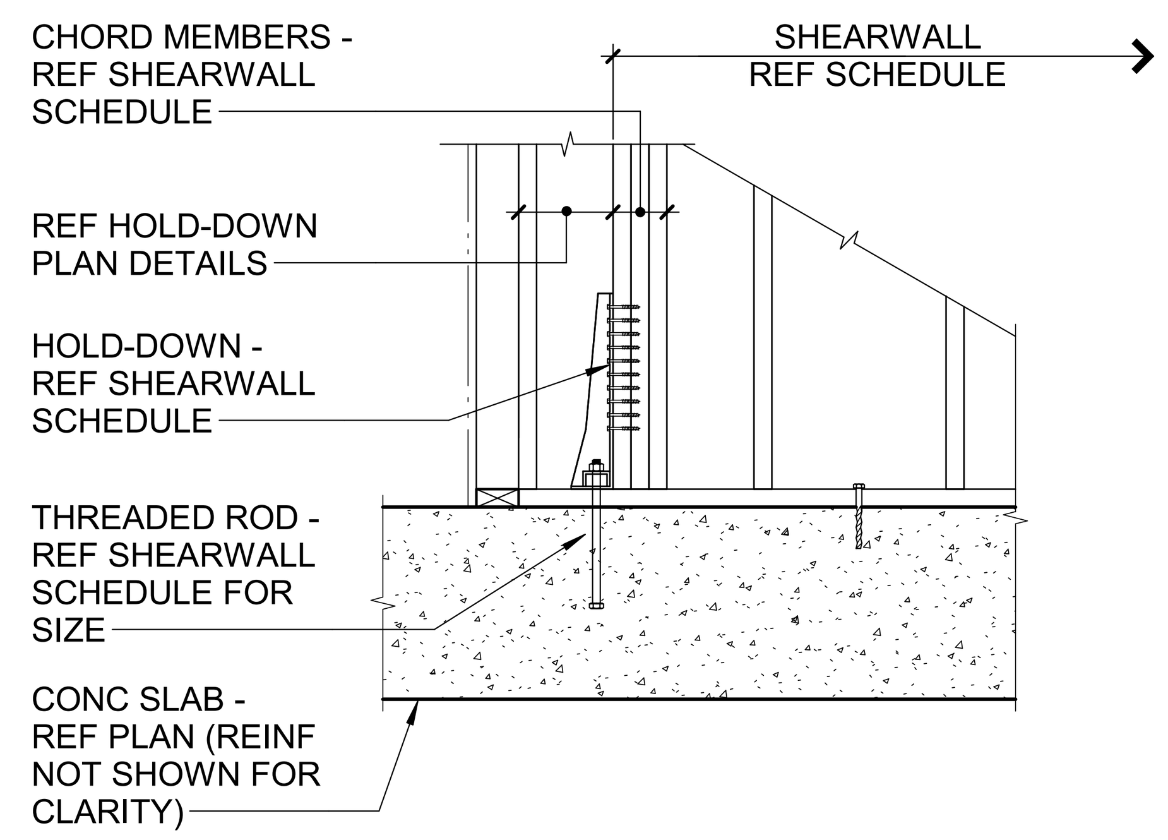


HOLD-DOWN ANCHORAGE TO WOOD FLOOR (SINGLE ANCHOR)

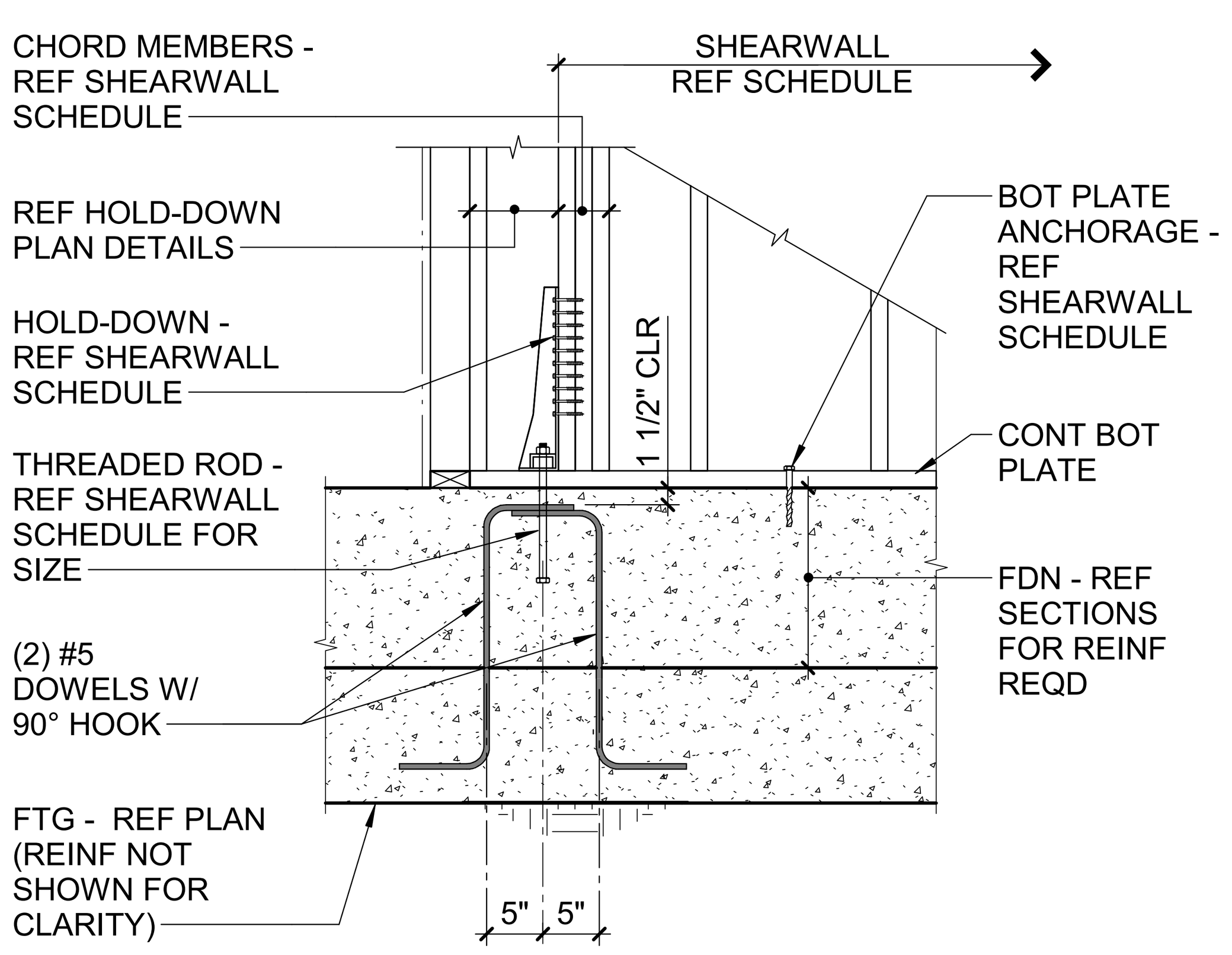
SHEARWALL CHORD HOLD-DOWN SCHEDULE

MARK	HOLD-DOWN (EACH END OF SHEARWALL)	ROD SIZE	NUMBER OF CHORD STUDS 2x4	NUMBER OF CHORD STUDS 2x6	HOLD-DOWN CAPACITY (LBS)
HD-A	HDU2-SDS2.5	5/8"Ø	2	2	2210
HD-B	HDU5-SDS2.5	5/8"Ø	3	2	4060
HD-C	HDU8-SDS2.5	7/8"Ø	4	2	4870
HD-D	HDU11-SDS2.5	1"Ø	5	3	6865
HD-E	HDU14-SDS2.5	1"Ø	8	4	10350

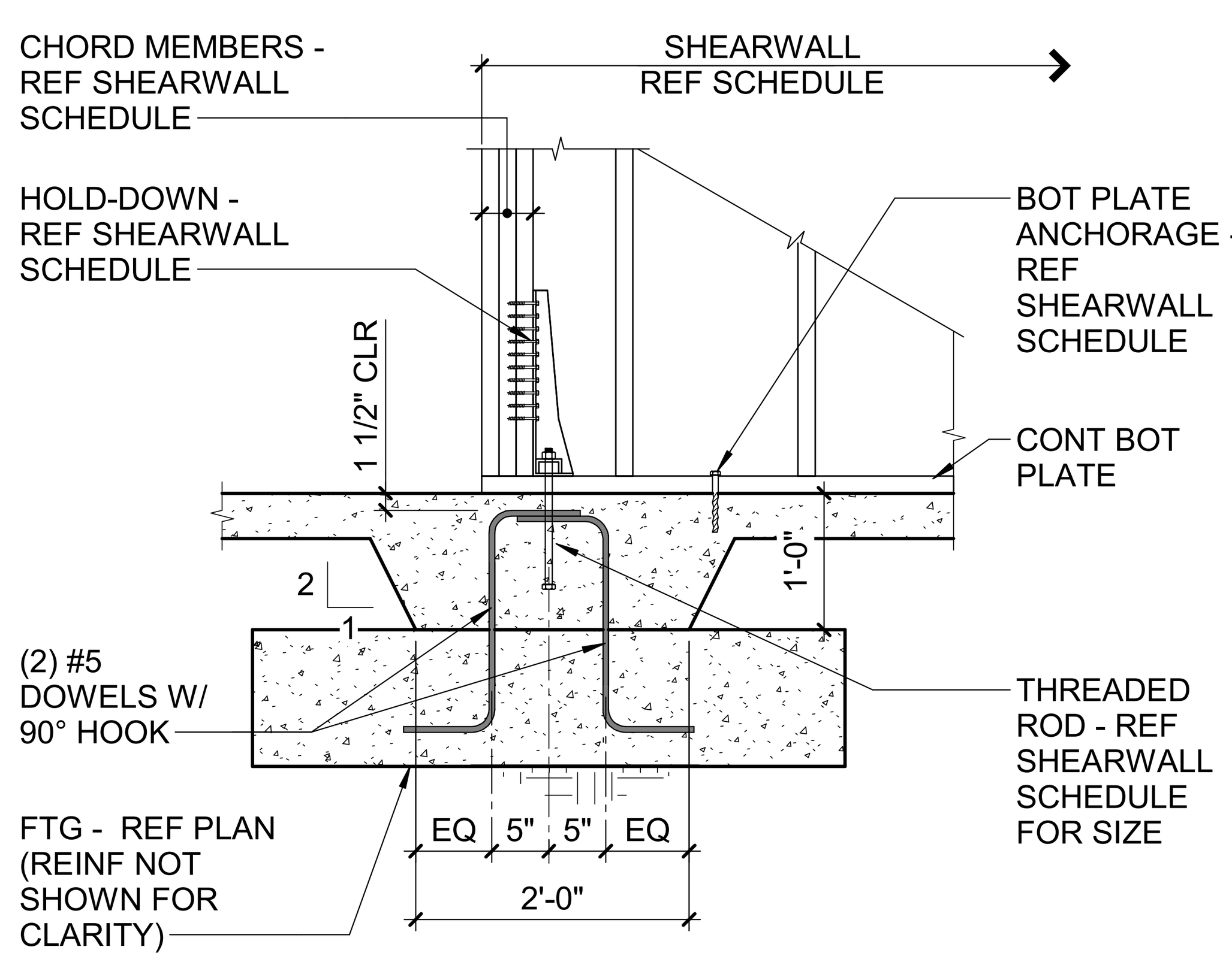
NOTES:
- HOLD-DOWNS INDICATED BY SIMPSON STRONG-TIE, INC OR APPROVED EQUIVALENT.
- HOLD-DOWNS MUST BE INSTALLED ON BOTH ENDS OF SHEARWALL.
- INSTALL SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER CHORD STUDS. REFERENCE TYPICAL DETAILS.
- HOLD-DOWNS MUST BE INSTALLED WITH 1/4"Ø x 2 1/2" SDS SCREWS BY SIMPSON OR APPROVED EQUIVALENT. NUMBER REQUIRED PER MANUFACTURER'S SPECIFICATIONS.



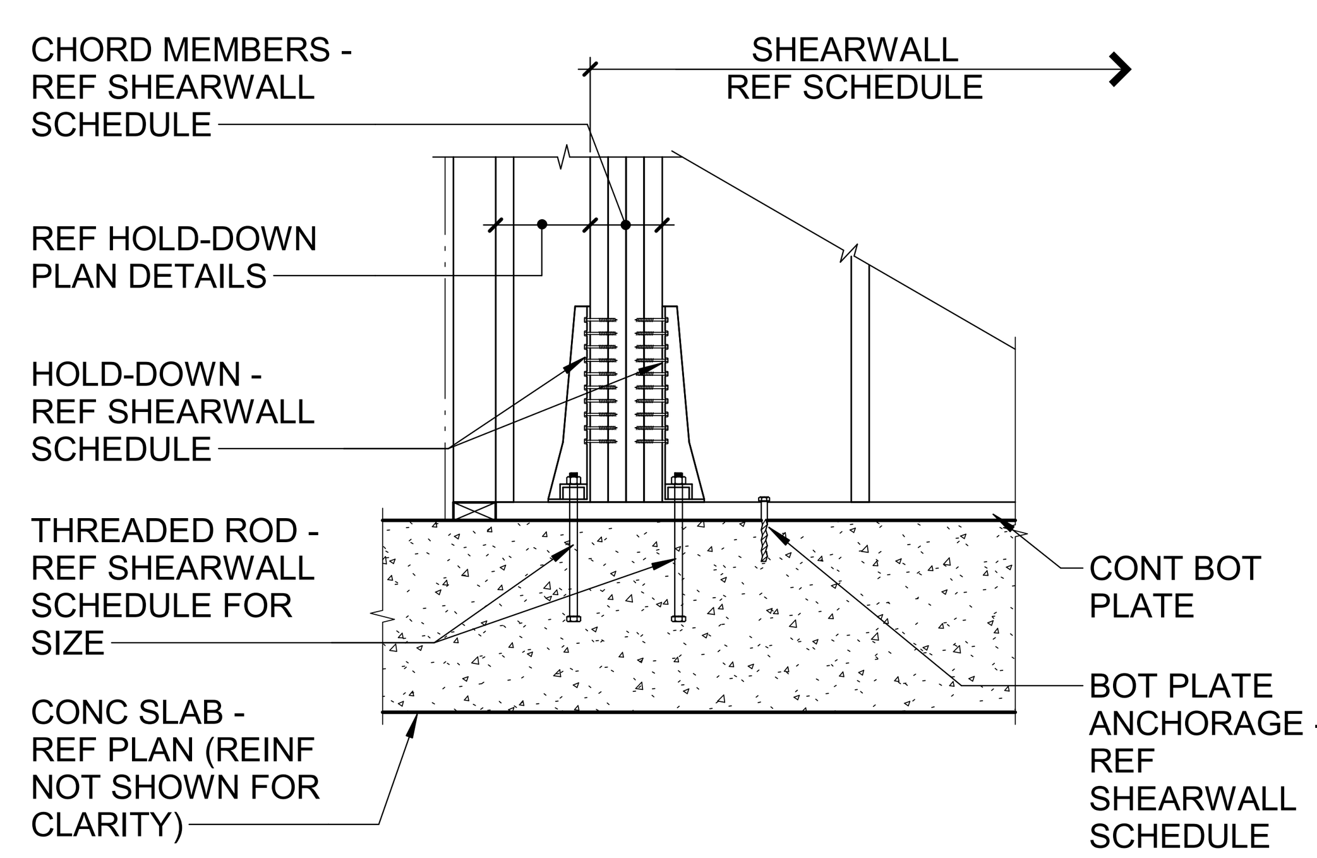
HOLD-DOWN ANCHORAGE TO CAST-IN PLACE CONCRETE SLAB (SINGLE ANCHOR)



HOLD-DOWN ANCHORAGE TO FOUNDATION (SINGLE ANCHOR)



HOLD-DOWN ANCHORAGE TO FOUNDATION AT INTERIOR SHEARWALL



HOLD-DOWN ANCHORAGE TO CAST-IN PLACE CONCRETE SLAB (DOUBLE ANCHOR)

1 TYPICAL HOLD-DOWN DETAILS

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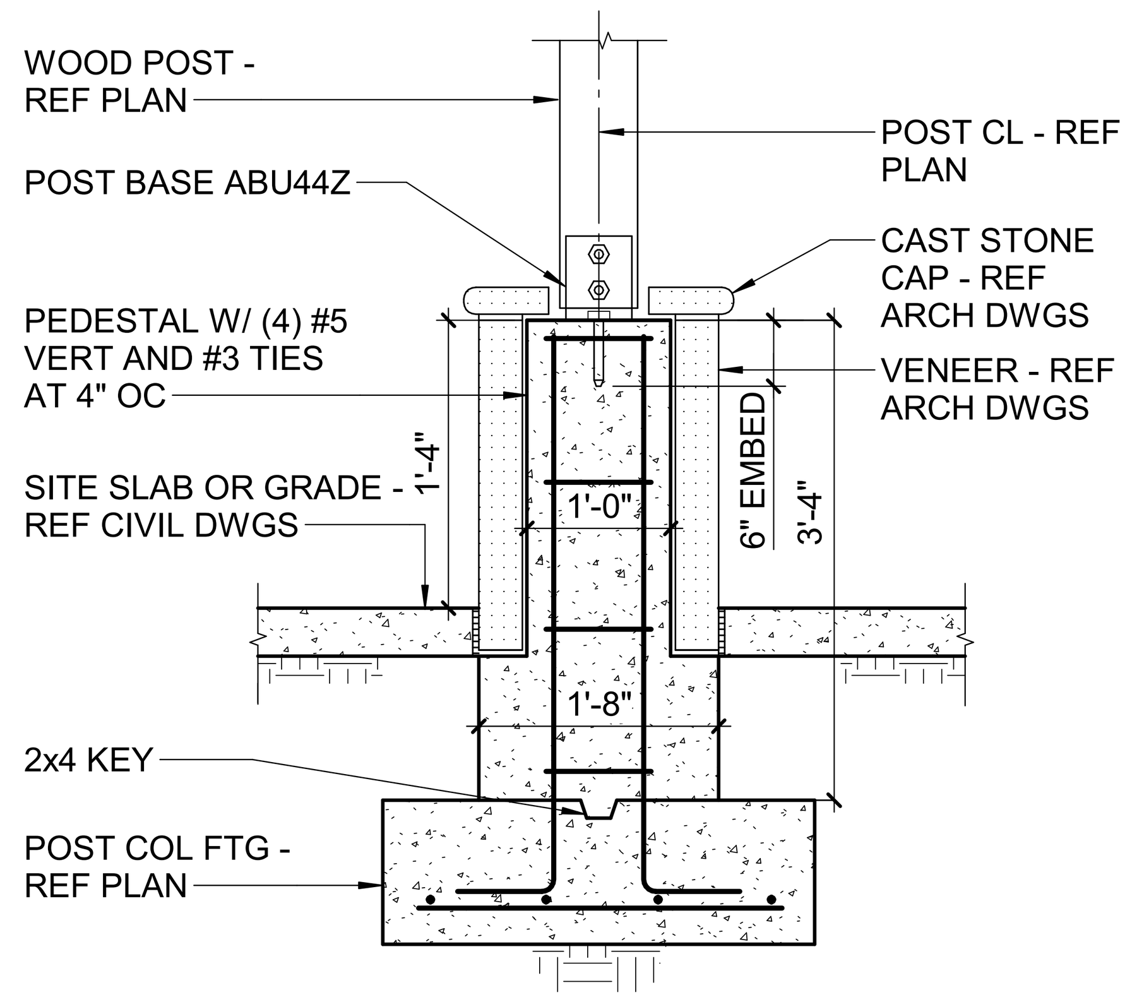
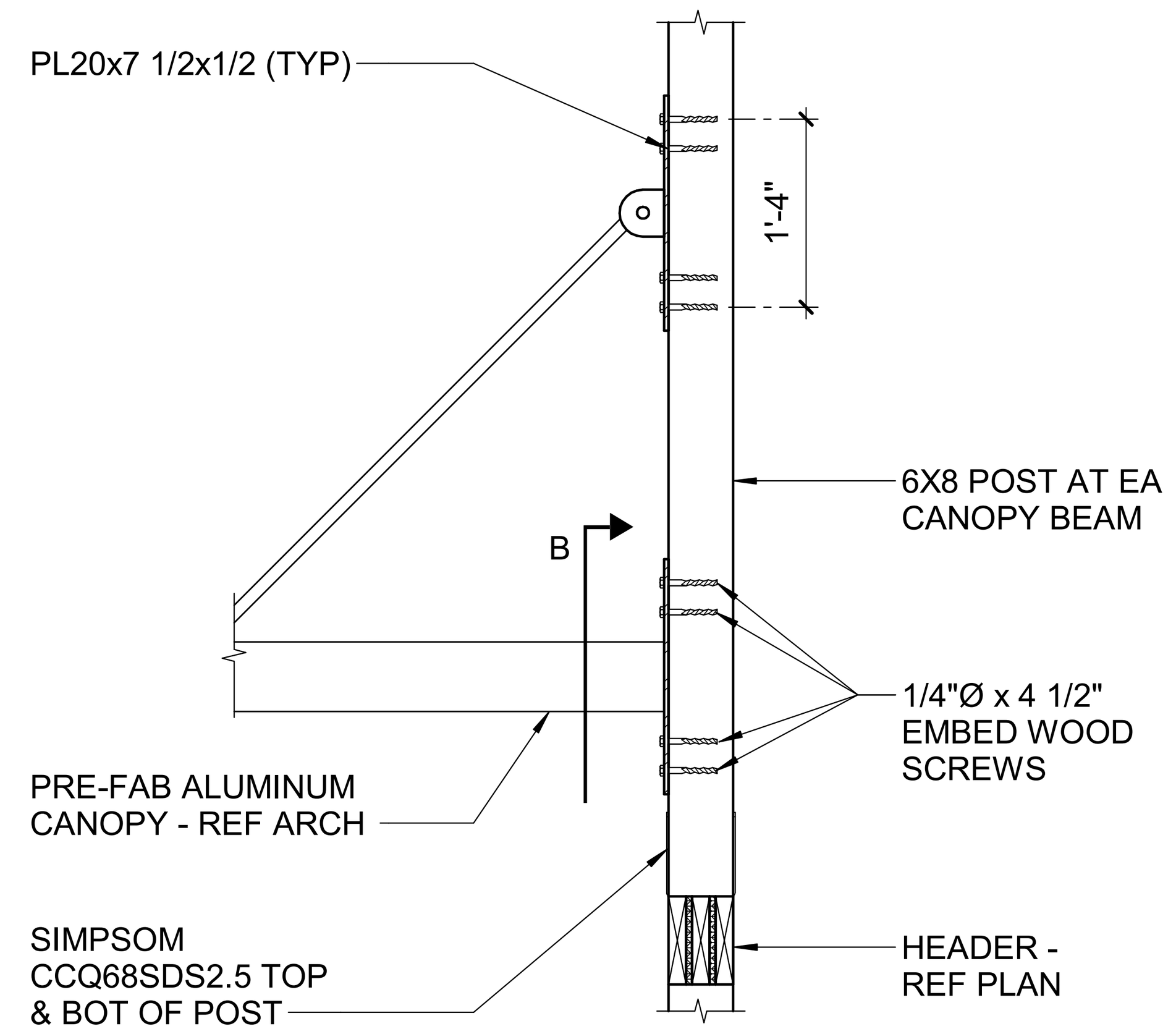
S5.03

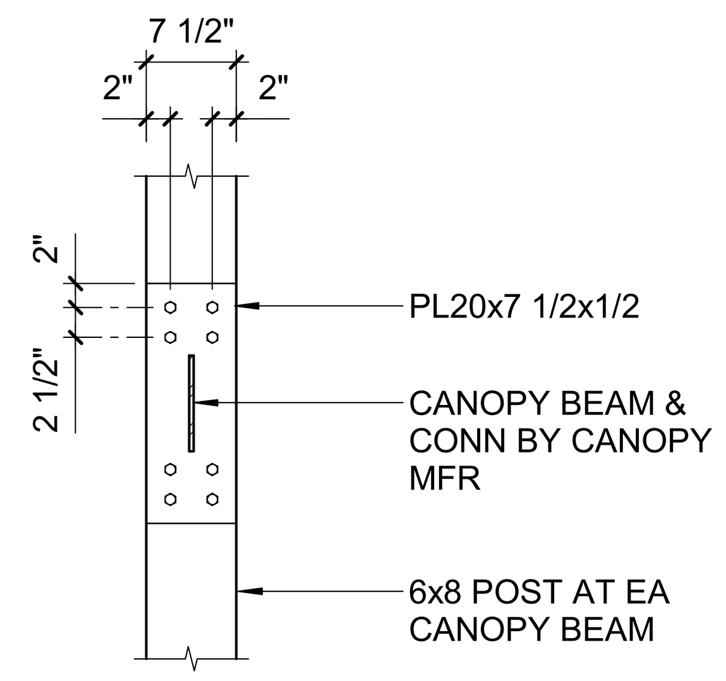


AT CONCRETE PEDESTAL

5 TYPICAL WOOD POST COLUMN FOOTING DETAILS
NTS

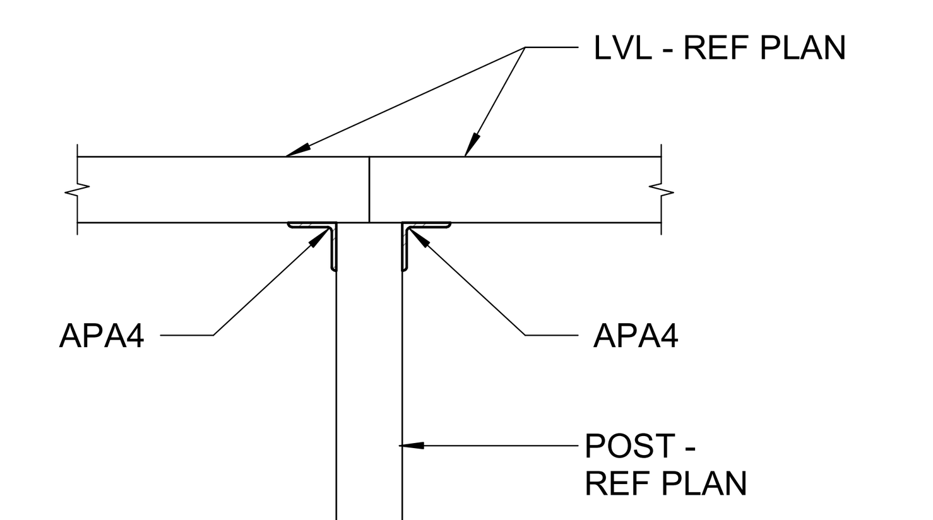


AT WOOD

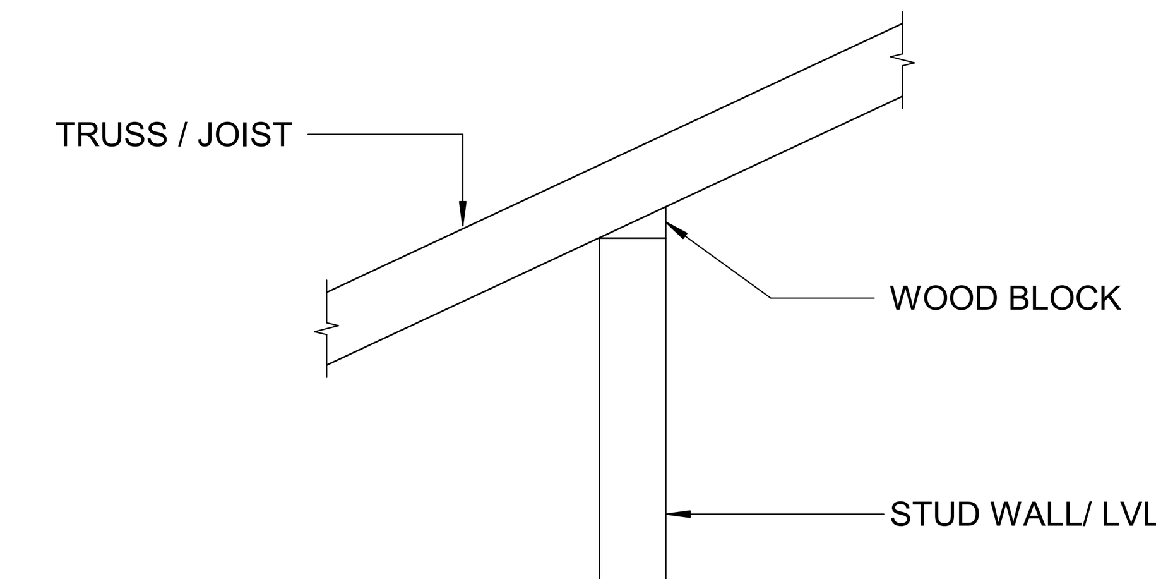


SECTION B

6 TYPICAL CANOPY ATTACHMENT DETAILS
NTS



8 TYPICAL LVL TO POST DETAIL
NTS



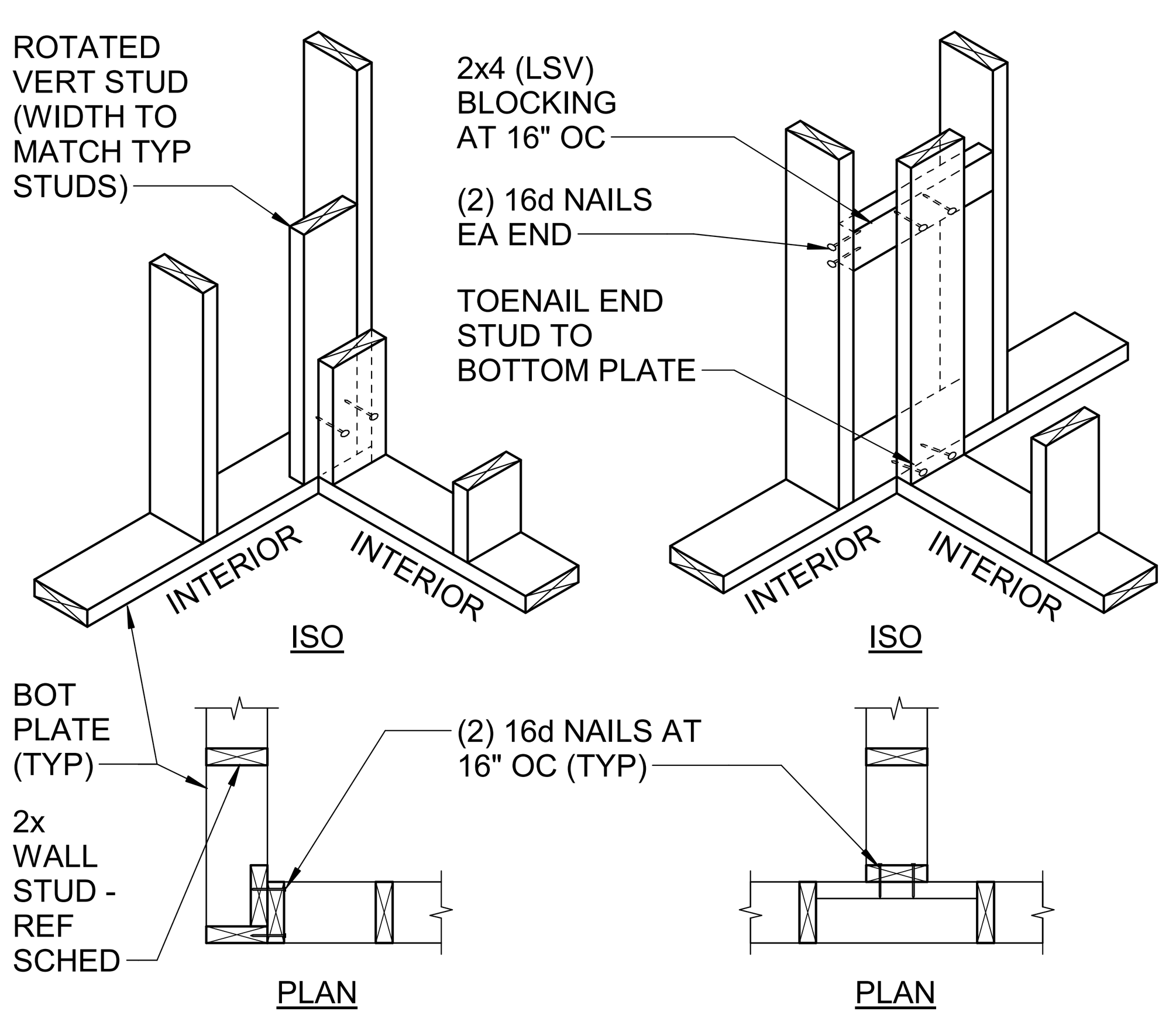
7 TYPICAL BEARING CONDITION DETAIL
NTS

STANDARD JACK AND KING STUD SCHEDULE

HEADER SIZE	JACK STUDS (EACH SIDE - EACH LEVEL)	KING STUDS (EACH SIDE - EACH LEVEL)
(2)1.75x5.5 OR (2) 1.75x9.25	(2) 2x4	(2) 2x4
(2) 1.75x7.25 OR (2) 1.75x9.25	(2) 1 3/4x11 1/4 LVL	(2) 2x4
(2) 2x8	(1) 2x4	(1) 2x4
(3) 1.75x7.25 OR (3) 1.75x5.5	(1) 2x6	(1) 2x6
(3) 1.75x7.25 OR (3) 1.75x9.25 OR (3) 1 3/4 x 11 1/4 LVL	(2) 2x6	(2) 2x6
(3) 2x8	(1) 2x6	(1) 2x6

STANDARD HEADER SCHEDULE

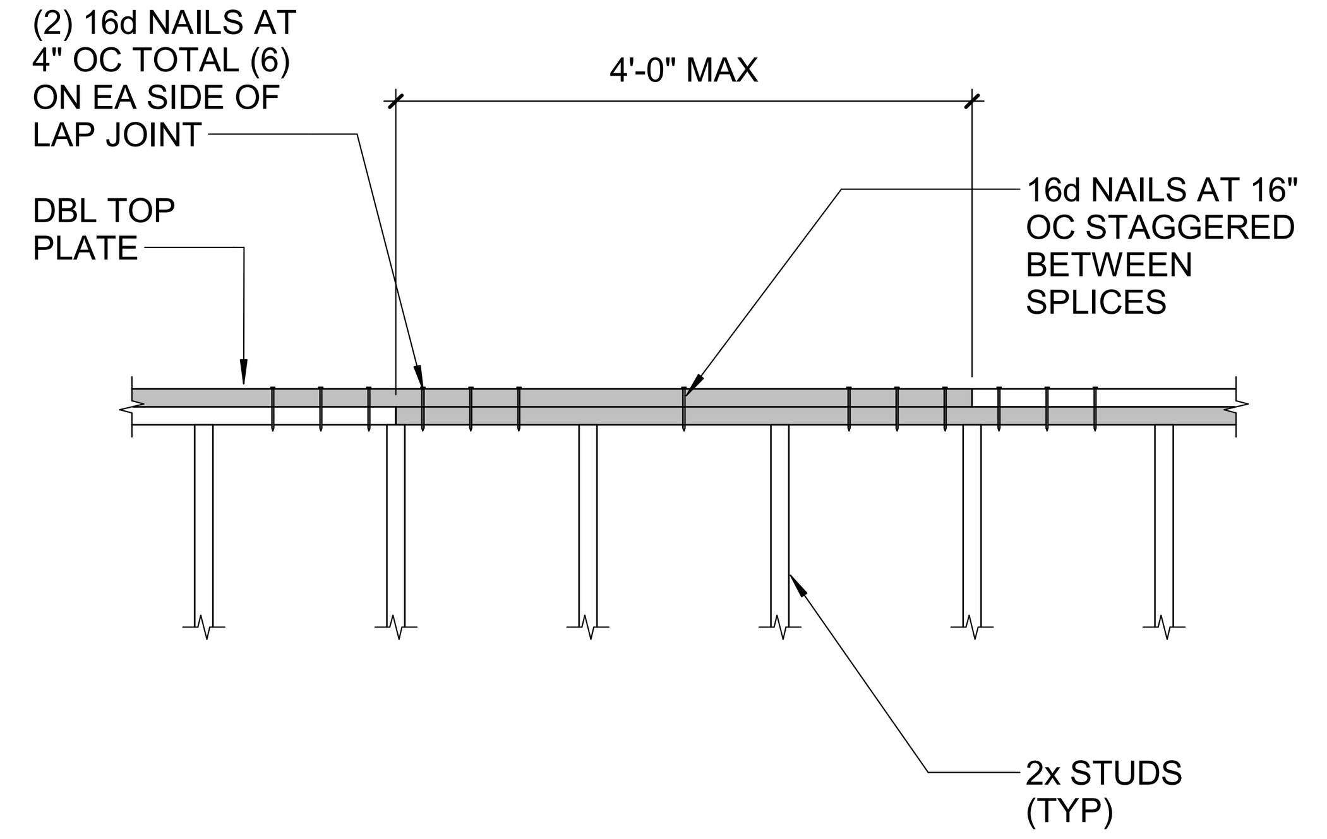
MARK	MAXIMUM OPENING SPAN	2x4 WALL HEADER TYPE	2x6 WALL HEADER TYPE
H-1	-	(2) 1 3/4x11.25 LVL	(3) 1 3/4x11.25 LVL
H-2	-	(2) 1 3/4x9.25 LVL	(3) 1 3/4x9.25 LVL
H-3	-	(2) 1 3/4x5.5 LVL	(3) 1 3/4x5.5 LVL
HDR	4'-0"	(2) 2x6	(3) 2x6
HDR	5'-6"	(2) 2x8	(3) 2x8
HDR	6'-0"	(2) 1.75x5.5 LVL	(3) 1.75x5.5 LVL
HDR	6'-6"	(2) 1.75x7.25 LVL	(3) 1.75x7.25 LVL
HDR	8'-0"	(2) 1.75x9.25 LVL	(3) 1.75x9.25 LVL



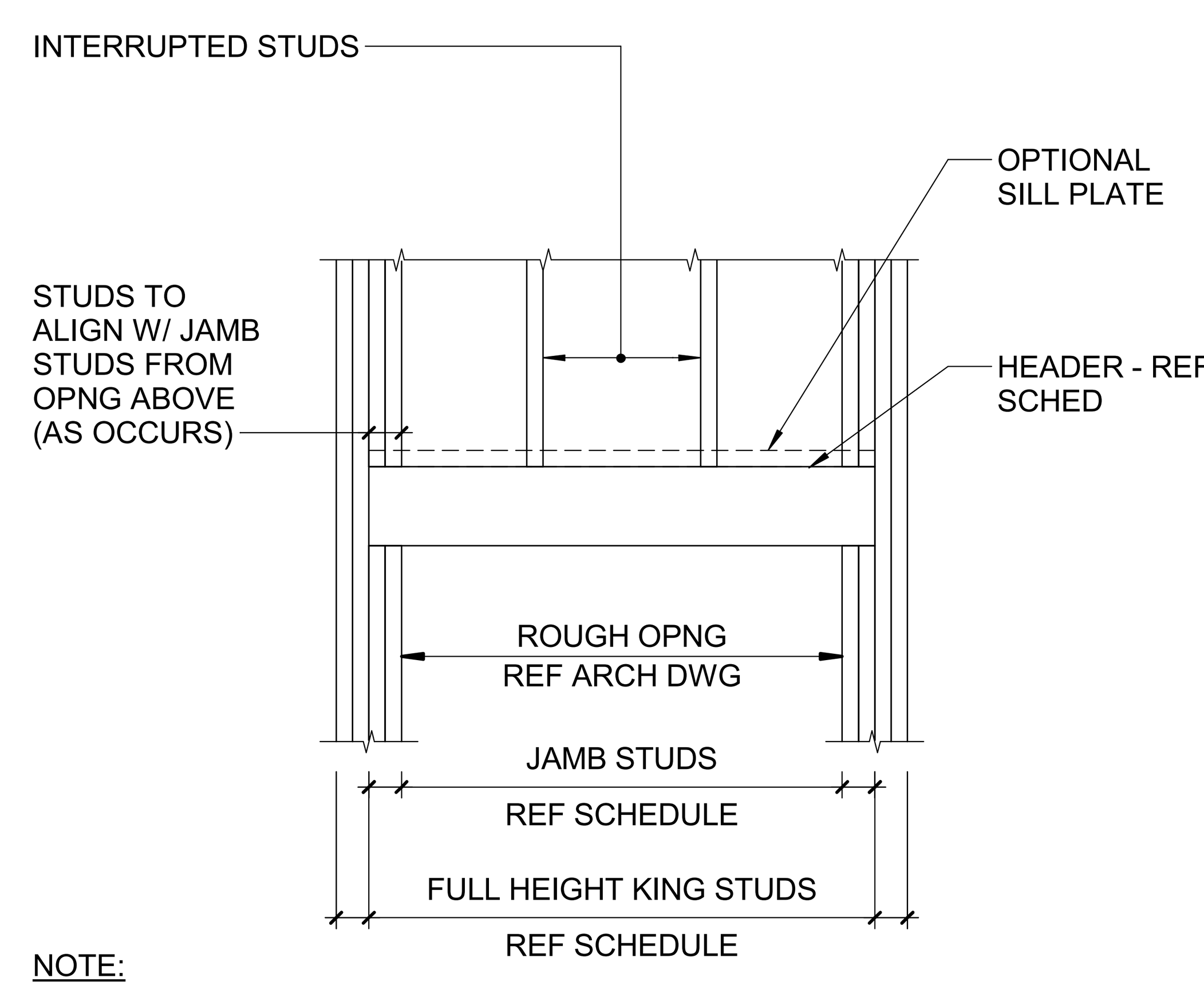
CORNER

INTERSECTIONS

2 TYPICAL STUD WALL CORNERS AND INTERSECTIONS DETAIL
NTS

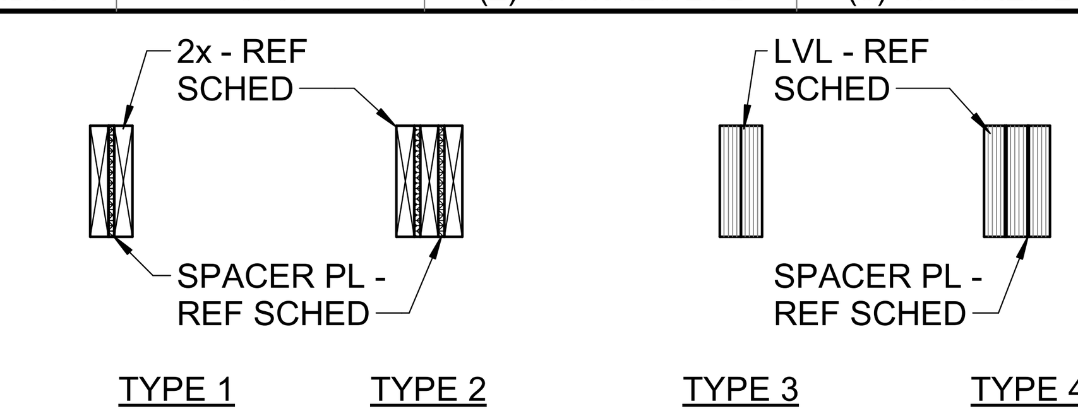


3 TYPICAL DOUBLE TOP PLATE LAP DETAIL
NTS



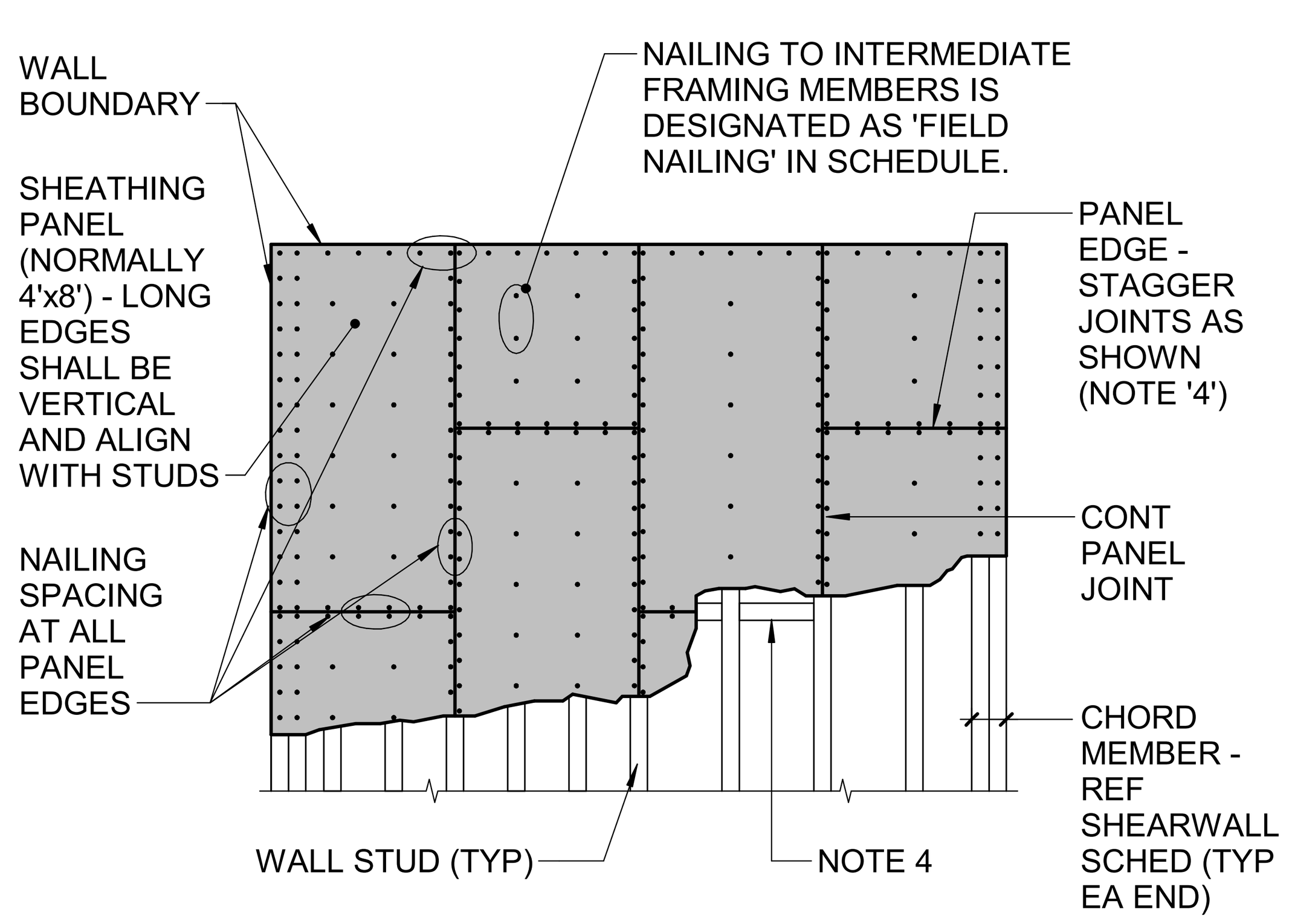
NOTE:
1. JACK STUDS AT HEADER BEARING SHALL BE CONTINUOUS TO FOUNDATION.

4 TYPICAL FRAMED OPENING DETAIL
NTS



HEADER TYPES

DEFINITION OF TERMS:



SHEATHING NOTES:

1. THE LATERAL LOADS ON THIS BUILDING ARE RESISTED BY A COMBINATION OF "DIAPHRAGM" ACTION OF THE FLOOR AND ROOF TO TRANSMIT LOADS IN THE HORIZONTAL PLANES, AND THE SHEARWALLS TO TRANSMIT LOADS IN THE VERTICAL PLANES
2. REFERENCE SHEARWALL SCHEDULE FOR SHEATHING TYPE REQUIREMENTS AT EACH LEVEL.
3. REFERENCE BEARING WALL PLANS FOR FACE OF WALL TO BE SHEATHED.
4. AT EXTERIOR SHEARWALLS, ALL NON-SUPPORTED PANEL EDGES MUST BE BLOCKED WITH 2x NOMINAL FRAMING. WIDTH SHALL MATCH ADJACENT STUDS. BLOCKING REQUIREMENT AT INTERIOR SHEARWALLS SHALL BE PER SCHEDULE.
5. LAP ALL EXTERIOR SHEARWALL SHEATHING 12" (MIN) ABOVE AND BELOW FLOOR SYSTEMS. REFERENCE DETAIL IN "TYPICAL EXTERIOR WALL SHEATHING DETAIL".

SHEARWALL SHEATHING SCHEDULE

MARK	SHEATHING	FACE	FASTENER TYPE	BLOCKING	PANEL EDGE FASTENER SPACING	PANEL FIELD FASTENER SPACING	BOTTOM PLATE CONNECTIONS: NAILING	BOTTOM PLATE CONNECTIONS: 1/4" Ø SDS²	A35/LTP4 SPACING
SH-A	15/32" APA SHEATHING	ONE	8d	NO	6" OC	12" OC			
SH-B	15/32" APA SHEATHING	ONE	8d	YES	6" OC	12" OC	16d AT 4" OC	12" OC	24" OC
SH-C	15/32" APA SHEATHING	ONE	8d	YES	4" OC	12" OC	16d AT 3" OC	9" OC	16" OC
SH-D	15/32" APA SHEATHING	ONE	8d	YES	3" OC	12" OC	20d AT 3" OC	6" OC	12" OC
SH-E	15/32" APA SHEATHING	BOTH	8d	YES	6" OC	12" OC	20d AT 3" OC	6" OC	12" OC
SH-F	15/32" APA SHEATHING	ONE	10d	YES	6" OC	12" OC	20d AT 4" OC	9" OC	16" OC
SH-G	15/32" APA SHEATHING	ONE	10d	YES	4" OC	12" OC	20d AT 3" OC	6" OC	12" OC
SH-H	15/32" APA SHEATHING	ONE	10d	YES	3" OC	12" OC	20d AT 3" OC	4" OC	8" OC
SH-J	15/32" APA SHEATHING	BOTH	10d	YES	6" OC	12" OC	40d AT 3" OC	4" OC	8" OC
SH-K	19/32" APA SHEATHING	ONE	10d	YES	6" OC	12" OC	16d AT 3" OC	10" OC	16" OC
SH-L	19/32" APA SHEATHING	ONE	10d	YES	4" OC	12" OC	20d AT 3" OC	6" OC	12" OC
SH-M	19/32" APA SHEATHING	ONE	10d	YES	3" OC	12" OC	40d AT 3" OC	4" OC	8" OC
SH-N	19/32" APA SHEATHING	BOTH	10d	YES	6" OC	12" OC	40d AT 3" OC	4" OC	8" OC
SH-P	5/8" GYP BOARD	ONE	10d	NO	6" OC	12" OC	16d AT 10" OC	12" OC	24" OC
SH-Q	5/8" GYP BOARD	ONE	10d	YES	6" OC	12" OC	16d AT 6" OC	12" OC	24" OC
SH-R	7/16" APA SHEATHING	ONE	8d	NO	6" OC	12" OC	16d AT 8" OC	12" OC	24" OC
SH-S	7/16" APA SHEATHING	ONE	8d	YES	6" OC	12" OC	16d AT 4" OC	12" OC	24" OC
SH-T	7/16" APA SHEATHING	ONE	8d	YES	4" OC	12" OC	16d AT 3" OC	9" OC	16" OC
SH-U	7/16" APA SHEATHING	ONE	8d	YES	3" OC	12" OC	20d AT 3" OC	6" OC	12" OC
SH-V	7/16" APA SHEATHING	BOTH	8d	YES	6" OC	12" OC	20d AT 3" OC	6" OC	12" OC

NOTE:
1. ALL NAILING MUST PENETRATE INTO MAIN MEMBER A MINIMUM OF 1 1/4" FOR 16d, 1 3/4" FOR 20d, 2 3/4" FOR 40d
2. 2" MIN PENETRATION INTO MEMBER BELOW. CENTER SDS ON MEMBER BELOW.

1 TYPICAL SHEARWALL SHEATHING DETAIL
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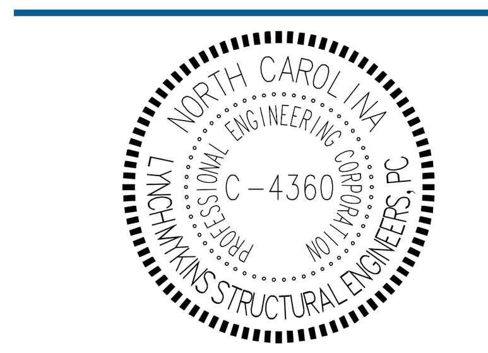

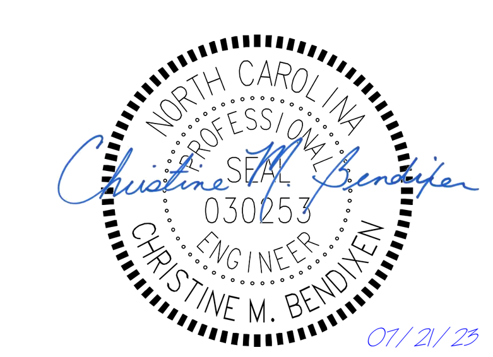

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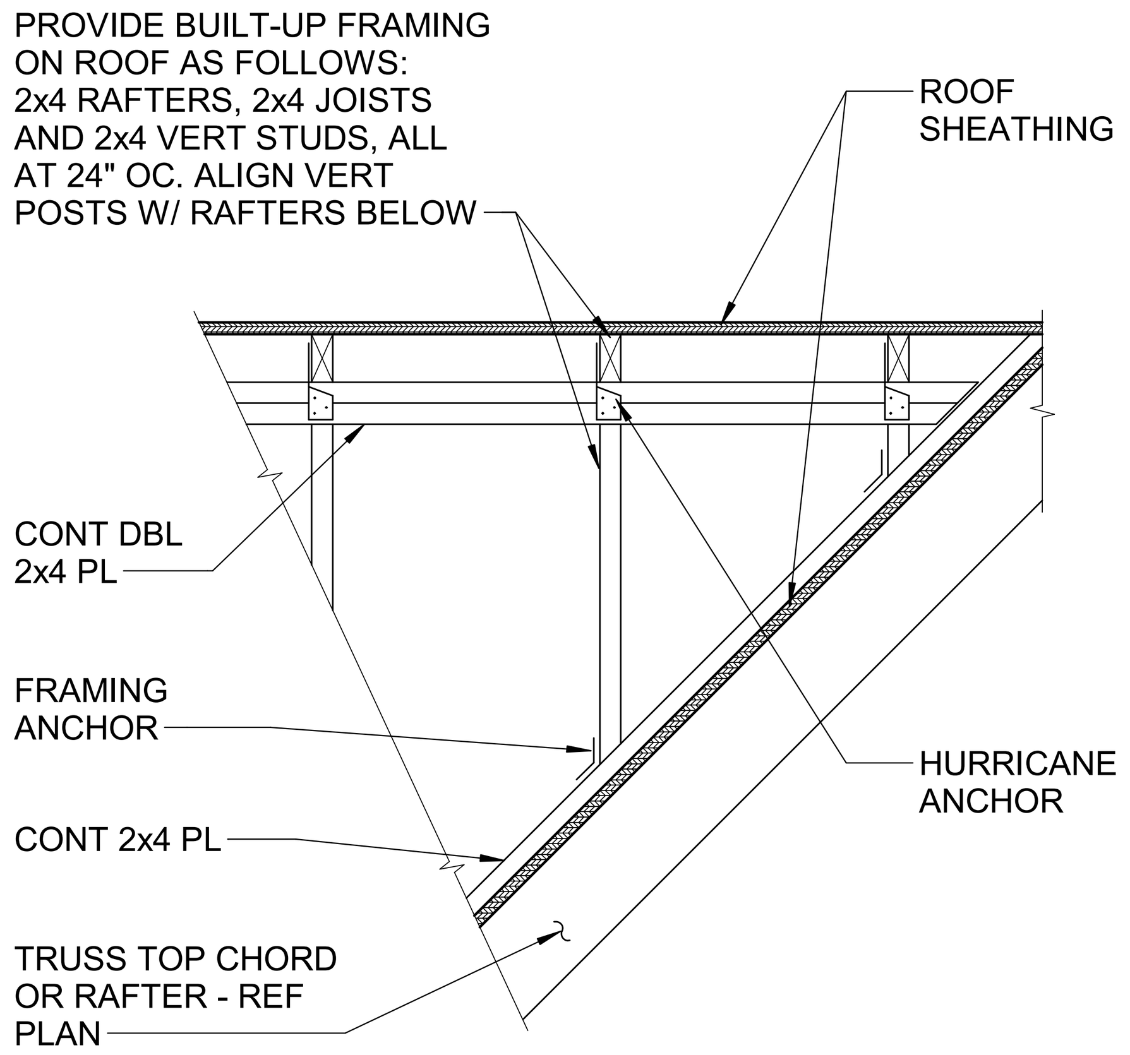
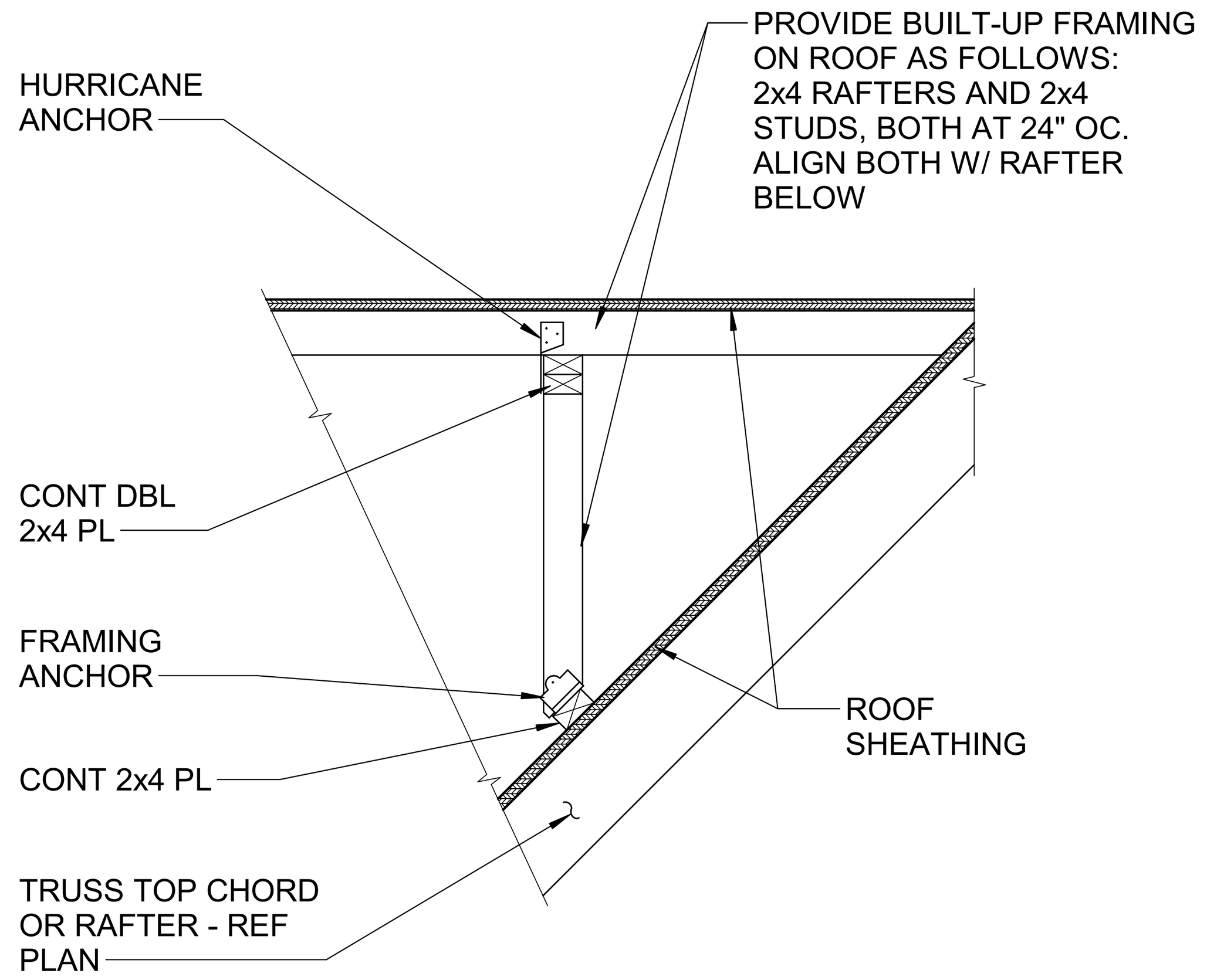


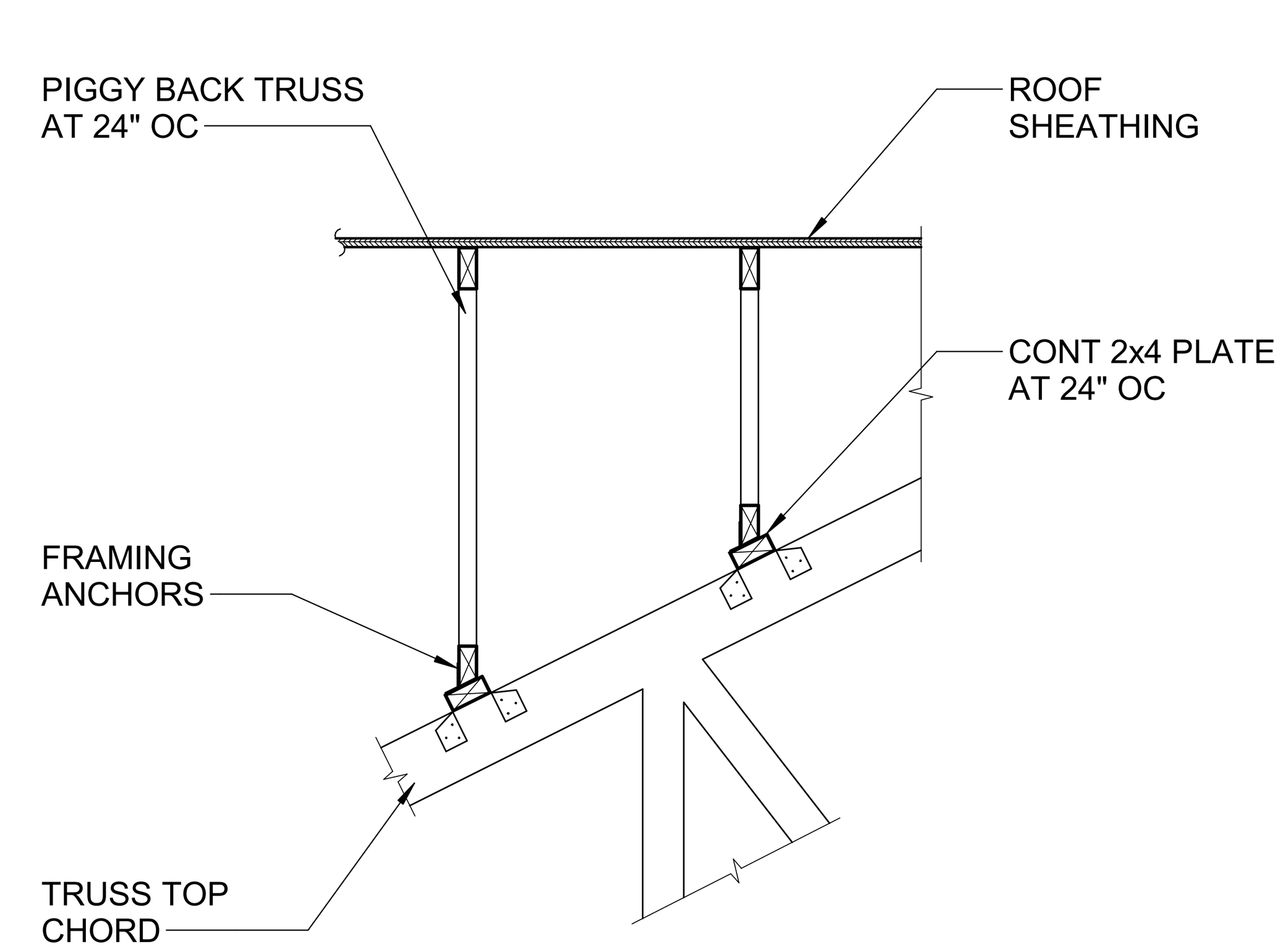
PERPENDICULAR TO RAFTERS



PARALLEL TO RAFTERS

8 TYPICAL BUILT-UP ROOF FRAMING DETAILS

NTS



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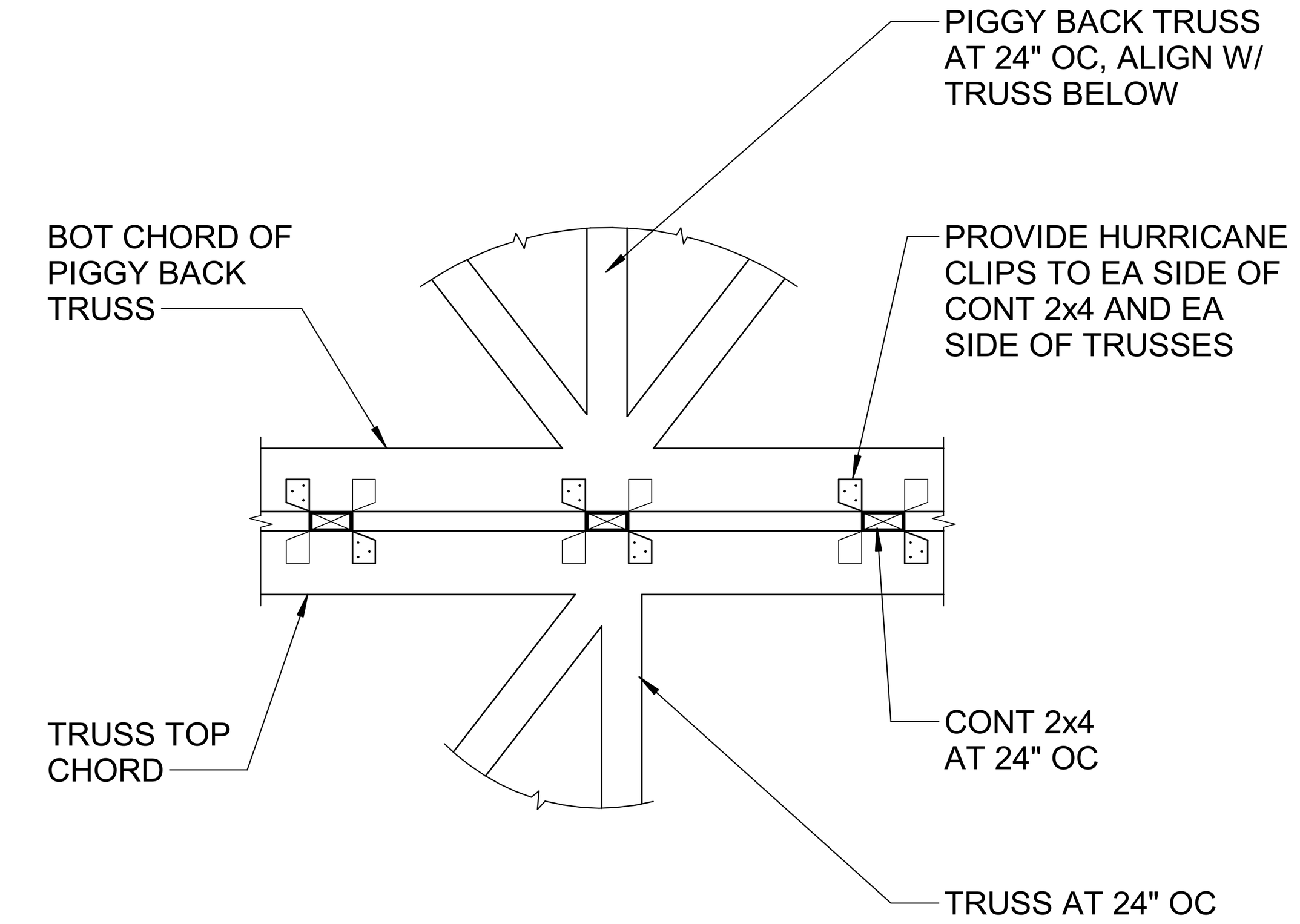
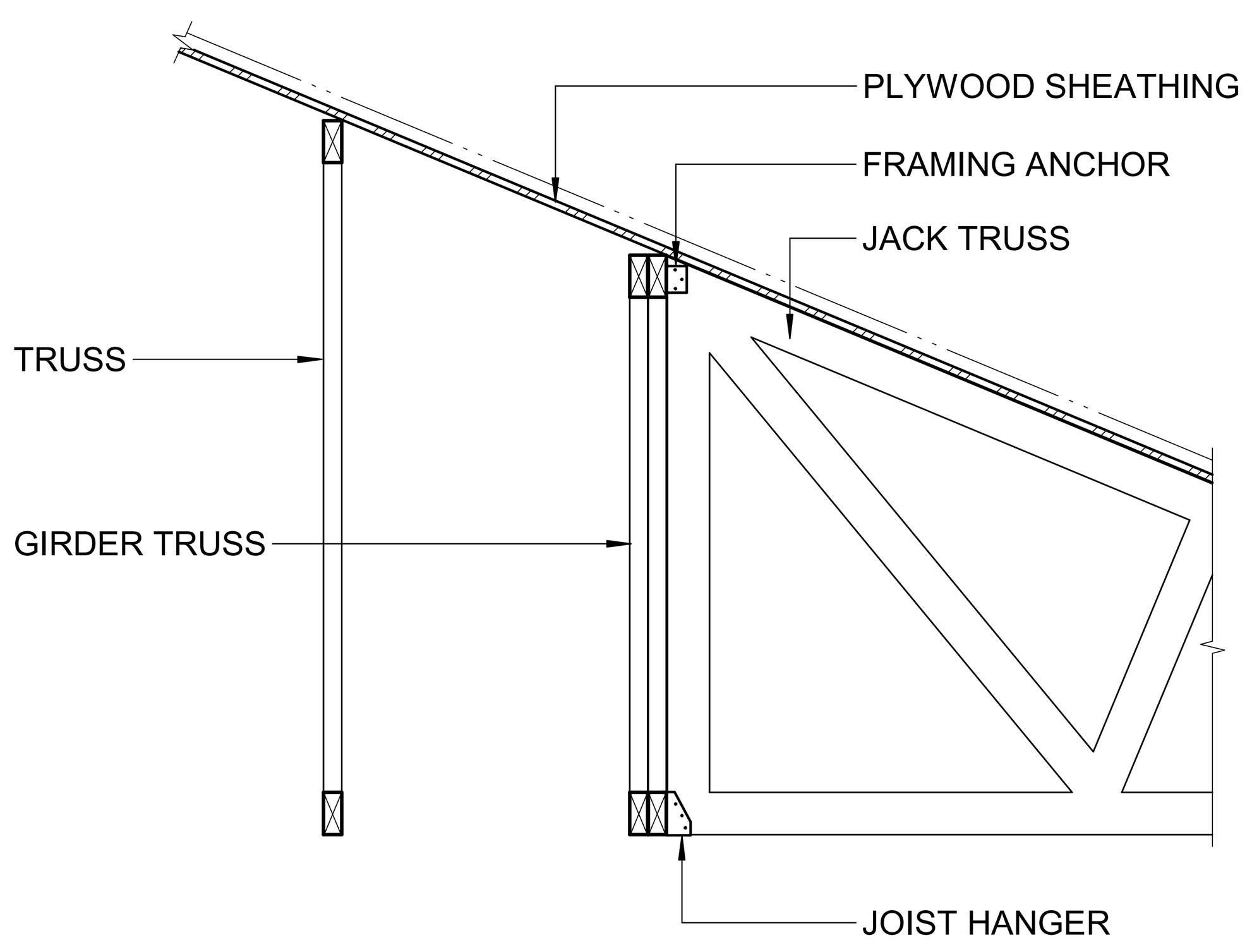


PARALLEL TO TRUSSES

9 TYPICAL BUILT-UP ROOF FRAMING DETAILS

3/4" = 1'-0"



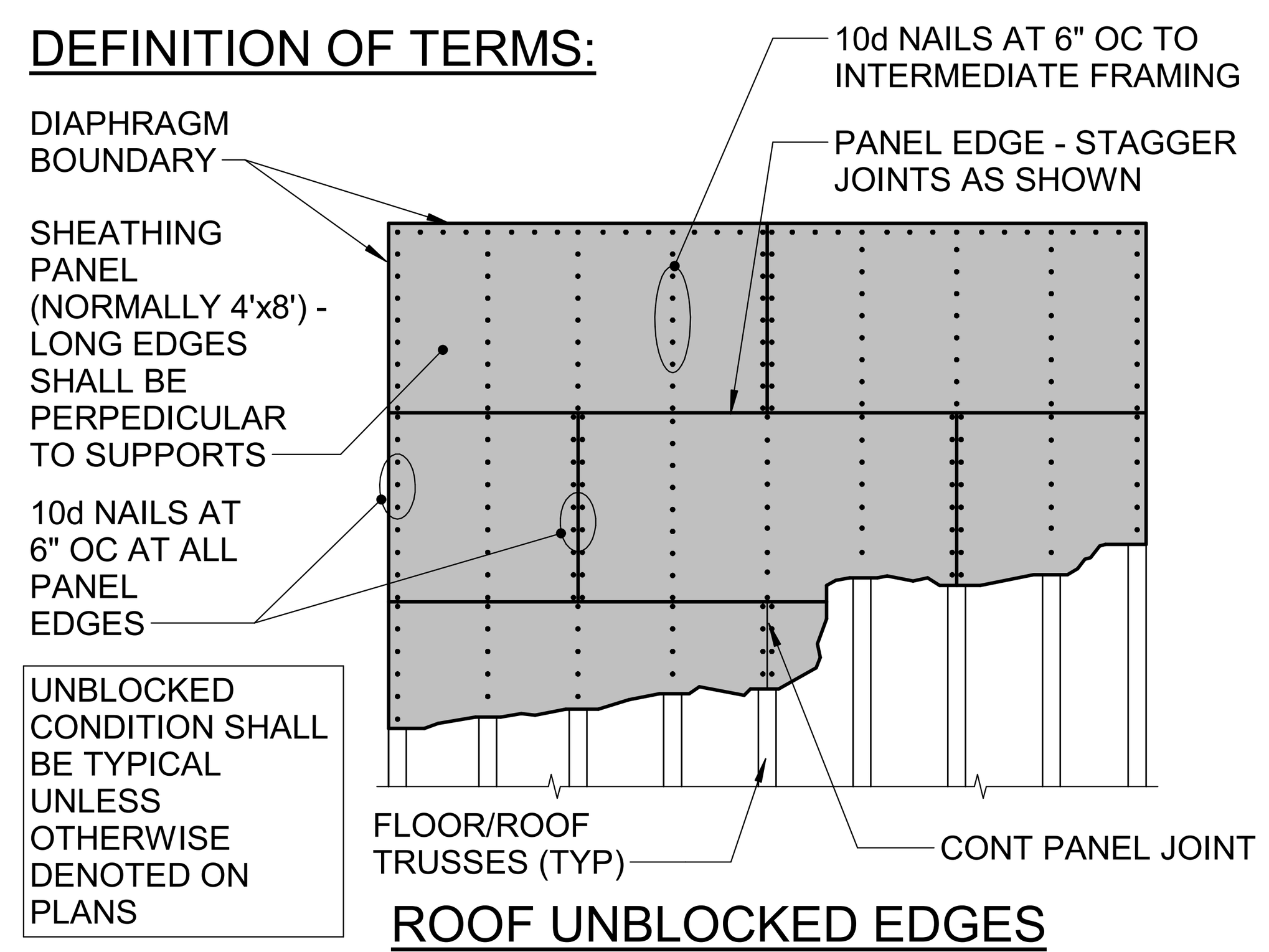
5 TYPICAL GIRDER TRUSS CONNECTION DETAIL

NTS

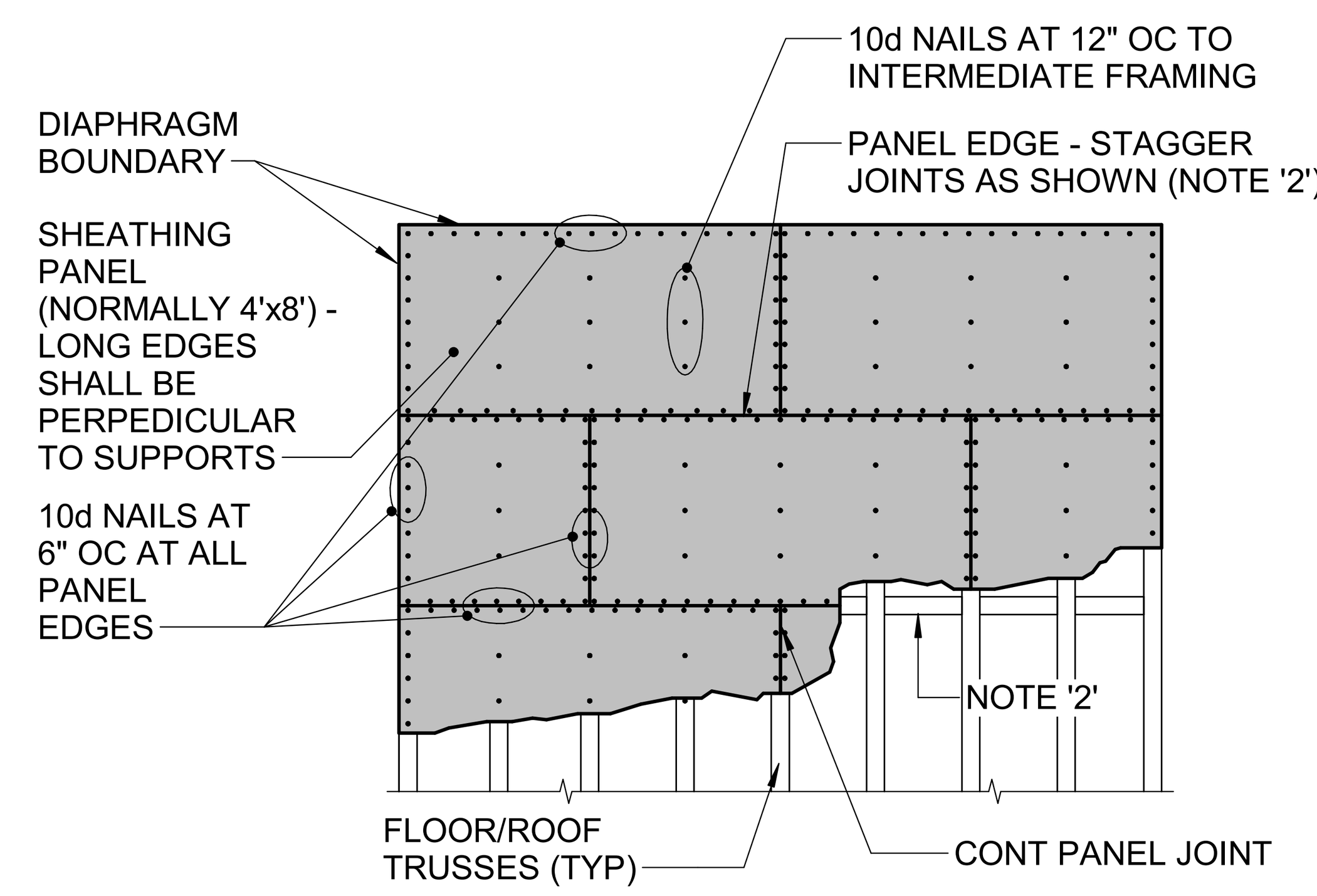
SHEATHING NOTES:

1. THE LATERAL LOADS ON THIS BUILDING ARE RESISTED BY A COMBINATION OF "DIAPHRAGM" ACTION OF THE FLOOR AND ROOF TO TRANSMITT LOADS IN THE HORIZONTAL PLANES, AND THE SHEARWALLS TO TRANSMIT LOADS IN THE VERTICAL PLANES.
2. ALL NON-SUPPORTED PANEL EDGES MUST BE BLOCKED WITH 2" NOMINAL OR WIDER FRAMING.

DEFINITION OF TERMS:



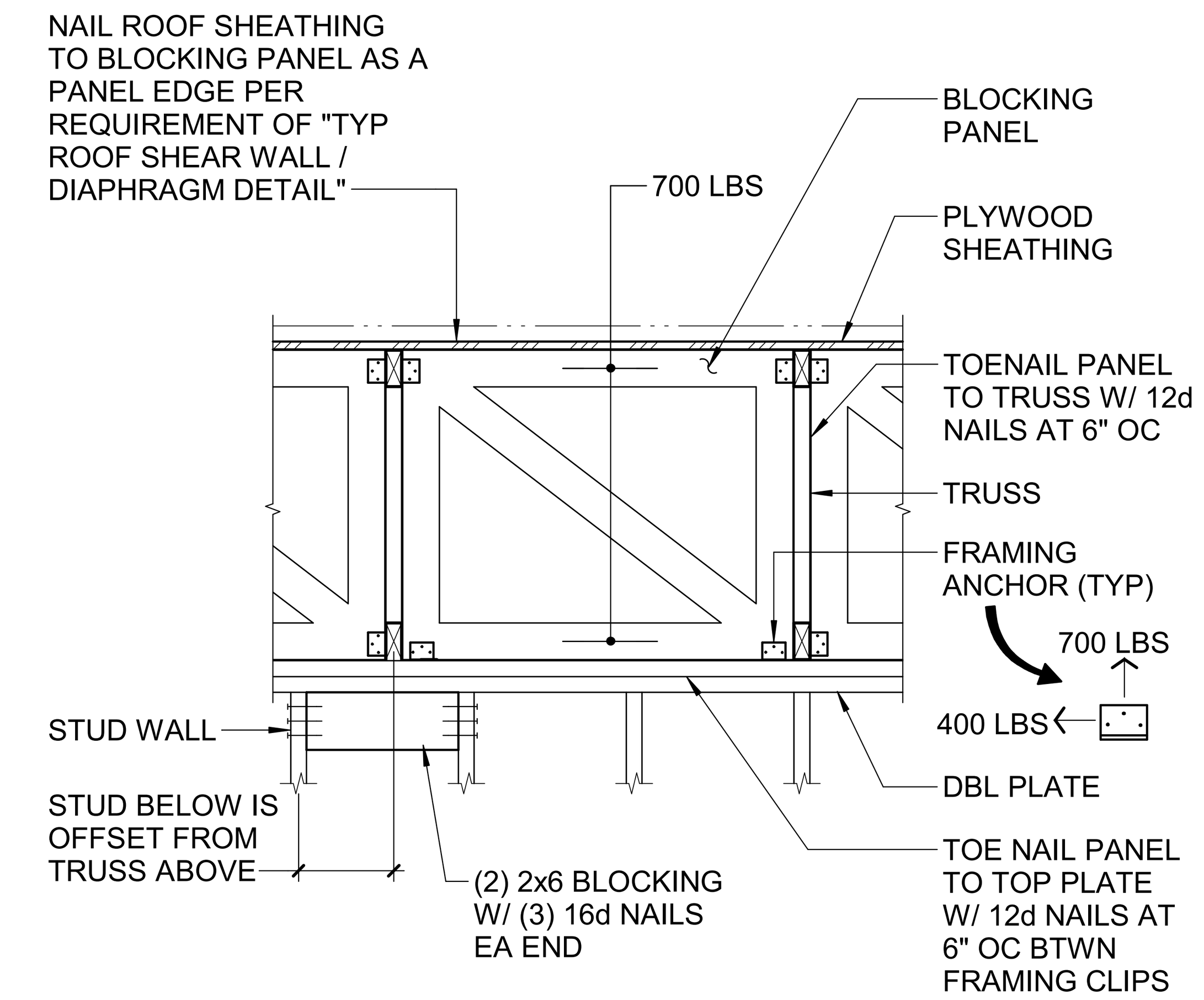
ROOF UNBLOCKED EDGES



FLOOR BLOCKED EDGES

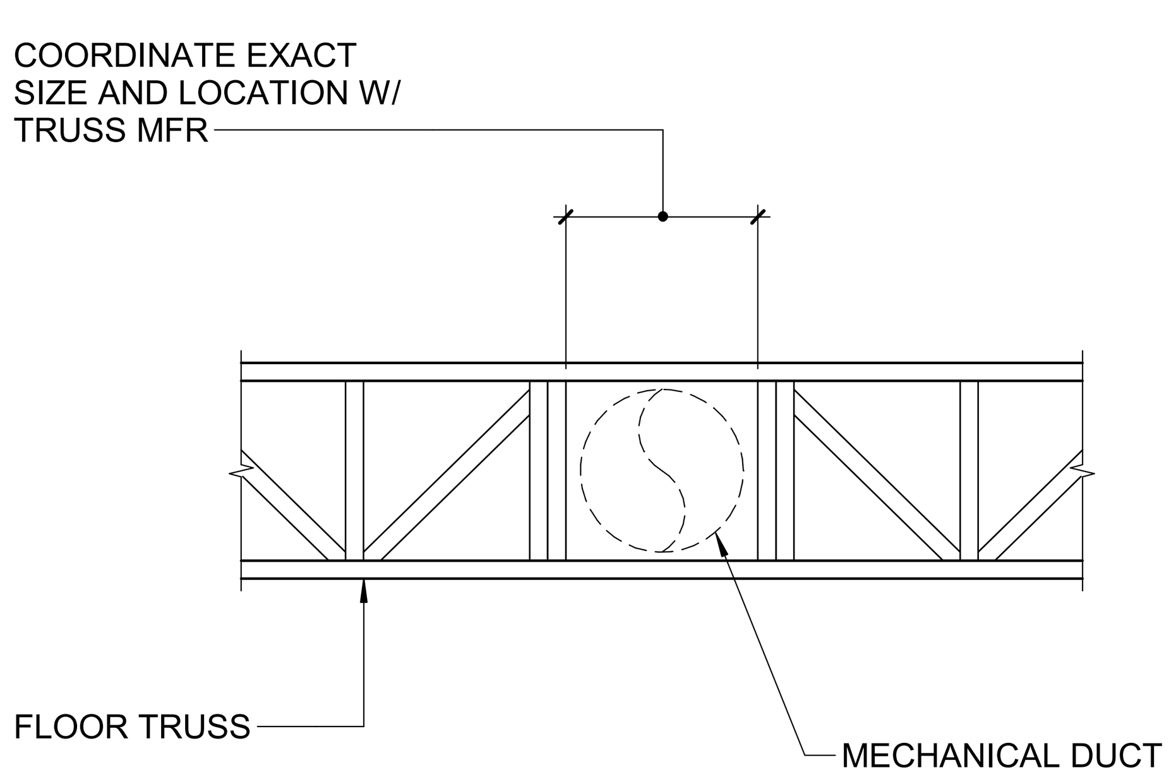
6 TYPICAL FLOOR/ROOF SHEATHING DETAILS

NTS



7 TYPICAL BLOCKING PANEL DETAIL

NTS



1 TYPICAL MECHANICAL OPENING IN FLOOR TRUSS DETAIL

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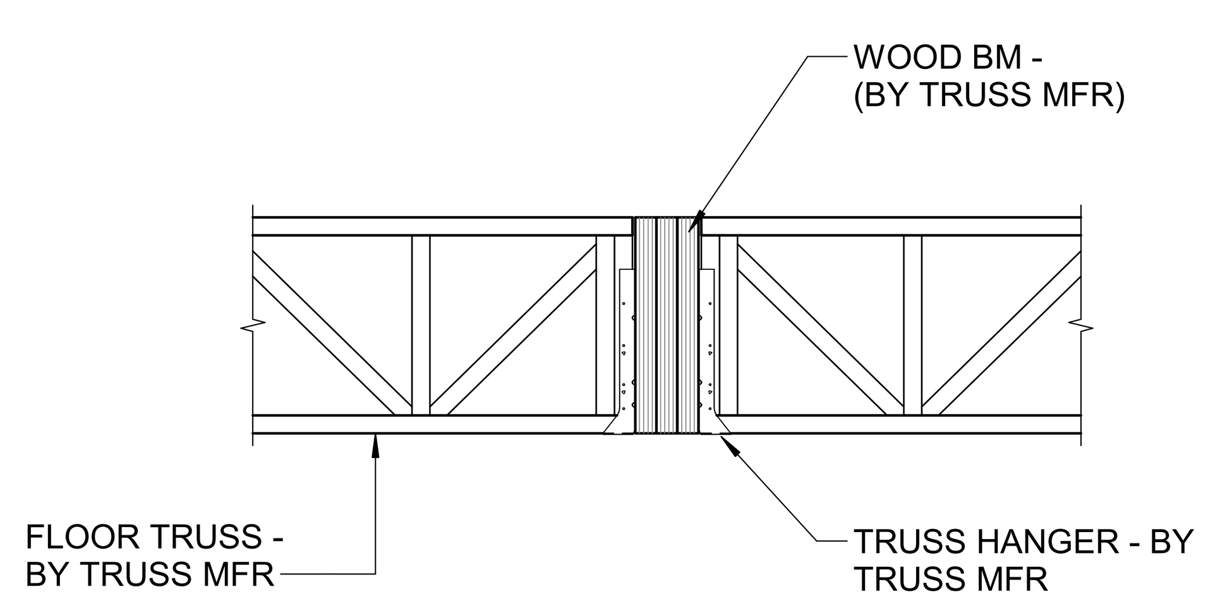
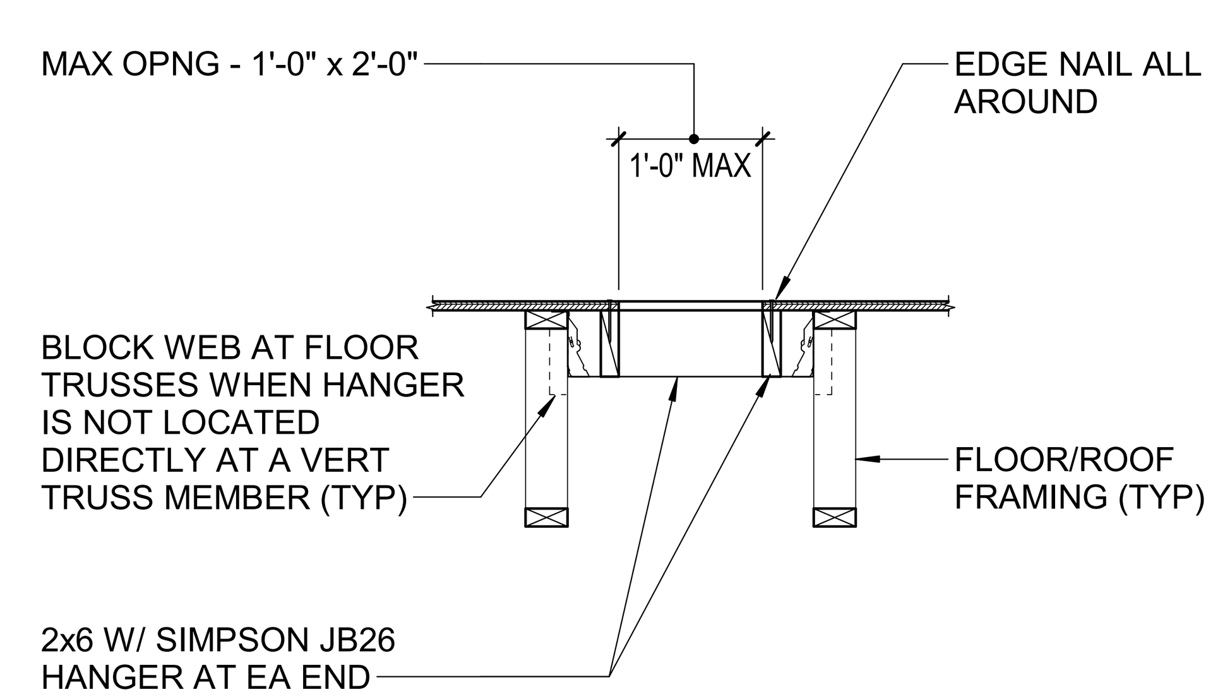


2 TYPICAL FLOOR TRUSS TO WOOD BEAM CONNECTION DETAIL

NTS



3 TYPICAL OPENINGS BETWEEN TRUSSES DETAIL

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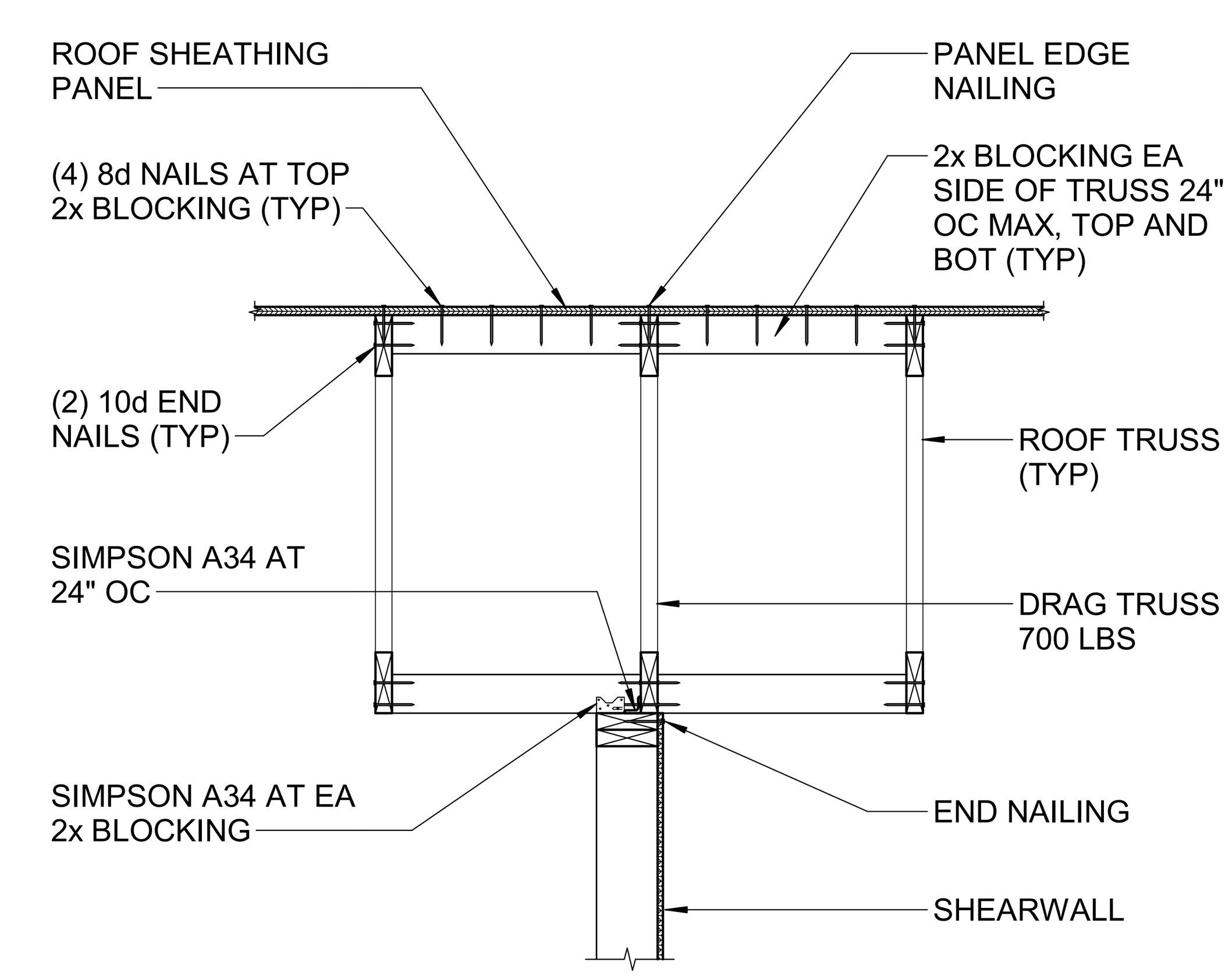

AT PARALLEL WALLS

4 TYPICAL SHEAR TRANSFER TO ROOF TRUSS DETAIL

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NORTH CAROLINA PROFESSIONAL ENGINEERING C-4360 LYNCH MASON STRUCTURAL ENGINEERS

NORTH CAROLINA PROFESSIONAL ENGINEER 030253 CHRISTINE M. BENDIXEN
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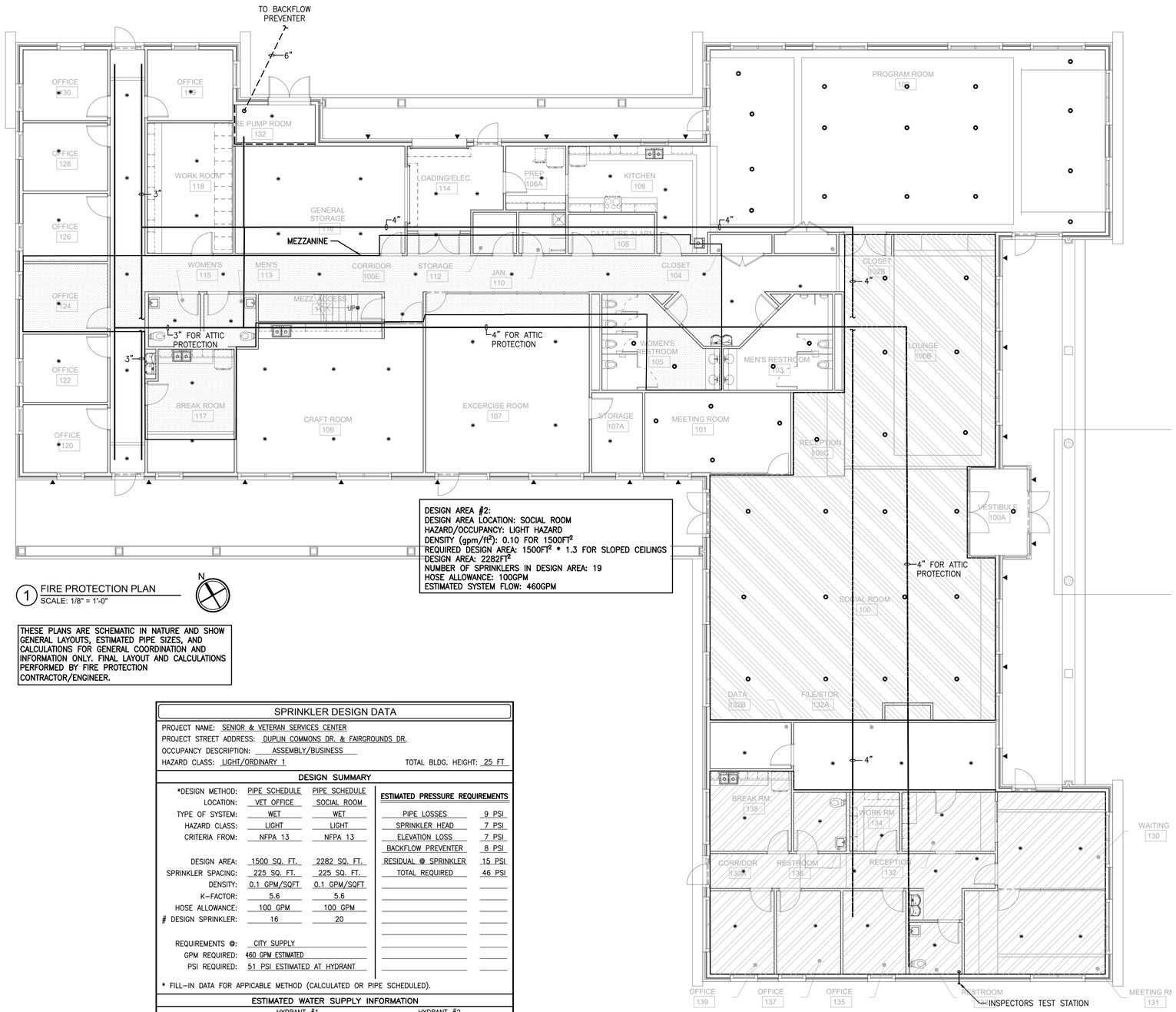
ENTIRE ATTIC SPACE SHALL BE PROTECTED.
EXTERIOR OVERHANGS (PORCHES) OVER 4 FEET IN WIDTH SHALL BE PROTECTED.
MEZZANINE IS ORDINARY HAZARD – EXPOSED PENDANTS
ALL 1ST FLOOR SPACE IS LIGHT HAZARD – CONCEALED HEADS

4" SCHEDULE 10 PIPE WEIGHT WITH WATER: 12LB/FT
3" SCHEDULE 10 PIPE WEIGHT WITH WATER: 8LB/FT



1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

N

THESE PLANS ARE SCHEMATIC IN NATURE AND SHOW GENERAL LAYOUTS, ESTIMATED PIPE SIZES, AND CALCULATIONS FOR GENERAL COORDINATION AND INFORMATION ONLY. FINAL LAYOUT AND CALCULATIONS PERFORMED BY FIRE PROTECTION CONTRACTOR/ENGINEER.

DESIGN AREA #2:
DESIGN AREA LOCATION: SOCIAL ROOM
HAZARD/OCCUPANCY: LIGHT HAZARD
DENSITY (gpm/ft²): 0.10 FOR 1500FT²
REQUIRED DESIGN AREA: 1500FT² * 1.3 FOR SLOPED CEILINGS
DESIGN AREA: 2282FT²
NUMBER OF SPRINKLERS IN DESIGN AREA: 19
HOSE ALLOWANCE: 100GPM
ESTIMATED SYSTEM FLOW: 460GPM

DESIGN AREA #1:
DESIGN AREA LOCATION: SOUTHEAST OFFICES
HAZARD/OCCUPANCY: LIGHT HAZARD
DENSITY (GPM/FT²): 0.10 FOR 1500FT²
ACTUAL DESIGN AREA: 1560FT²
NUMBER OF SPRINKLERS IN DESIGN AREA: 16
HOSE ALLOWANCE: 100GPM
ESTIMATED SYSTEM FLOW: 370GPM

KEY TO SYMBOLS

- DIRECTION OF FLOW
- BUTTERFLY VALVE WITH TAMPER SWITCH
- RELIEF/SAFETY VALVE
- CHECK VALVE
- PIPE CAP
- PIPE DROPPING DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION – SCREWED OR FLANGED
- SPRINKLER WITH GUARD
- SPRINKLER HEAD
- CONCEALED PENDANT HEAD
- SIDEWALL SPRINKLER
- SPRINKLER RISER
- ALARM CHECK VALVE
- FM — FLOW METER
- FS — FLOW SWITCH
- BFP — BACKFLOW PREVENTER
- WATER MOTOR GONG
- P.I.V. — POST INDICATOR VALVE
- PS — PRESSURE SWITCH
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (SIAMESE)
- FLUSH MOUNTED FIRE DEPT CONNECTION (SIAMESE)

ABBREVIATIONS

NOTE: NOT ALL SYMBOLS INDICATED MAY APPEAR ON THESE CONTRACT DRAWINGS

ABV	ABOVE	FIN	FINISHED	RAC	RUN ABOVE CEILING
AFF	ABOVE FINISHED FLOOR	FP	FIRE PROTECTION	RACBJ	RUN ABOVE CEILING BETWEEN JOISTS
ALT	ALTERNATE	FT	FEET		
APPROX	APPROXIMATE	GA	GAUGE	RAF	RUN ABOVE FLOOR
ARRG	ARRANGEMENT	GAL	GALLON	RATC	RUN AT CEILING
BLDG	BUILDING	GALV	GALVANIZED	RBC	RUN BELOW CEILING
BLW	BELOW	GC	GENERAL CONTRACTOR	RBF	RUN BELOW FLOOR
BV	BUTTERFLY VALVE (DOUBLE LINE PIPING ONLY)	GPD	GALLONS PER DAY	RBG	RUN BELOW GRADE
		GPH	GALLONS PER HOUR	RBJ	RUN BETWEEN JOIST
C	COMMON	GPM	GALLONS PER MINUTE	REQ	REQUIRED
CAB	CABINET	H2O	WATER	ROH	RUN OVERHEAD
CAP	CAPACITY	HP	HORSEPOWER	SCH	SCHEDULE
CI	CAST IRON	HZ	HERTZ	SCHEM	SCHEMATIC
℄	CENTER LINE	KW	KILOWATT	SP	STATIC PRESSURE
CLG	CEILING	L	LENGTH	SPEC	SPECIFICATION
COL	COLUMN	LAT	LEAVING AIR TEMPERATURE	SS	STAINLESS STEEL
COMP	COMPRESSOR	LB	POUND	SST	SUPPORT STEEL
CONN	CONNECTION	MC	MECHANICAL CONTRACTOR	STD	STANDARD
CONTR	CONTRACTOR	MIN	MINIMUM	STL	STEEL
DEPT	DEPARTMENT	MISC	MISCELLANEOUS	SUCT	SUCTION
DET	DETAIL	MTD	MOUNTED	SUP	SUPPLY
DIA	DIAMETER	NIC	NOT IN CONTRACT	SYS	SYSTEM
DIAG	DIAGRAM	No	NUMBER	TDH	TOTAL DYNAMIC HEAD
DIFF	DIFFERENTIAL	NOM	NOMINAL	TEMP	TEMPERATURE
DIV	DIVISION	NTS	NOT TO SCALE	TP	TOTAL PRESSURE
DWG	DRAWING	OC	ON CENTER	TYP	TYPICAL
EA	EACH	OCC	OCCUPIED	UNOCC	UNOCCUPIED
EC	ELECTRICAL CONTRACTOR	OGH	OUTSIDE GROUND HYDRANT	VA	VALVE
ETC	AND SO FORTH	PART	PARTIAL	W	WIDTH
°F	DEGREES FAHRENHEIT	PRESS	PRESSURE	W/	WITH
FA	FROM ABOVE	PSI	POUNDS PER INCH	W/O	WITHOUT
FB	FROM BELOW	PSIG	POUNDS PER INCH GAUGE	WC	WATER COLUMN
FE	FIRE EXTINGUISHER			WG	WATER GAUGE
FEC	FIRE EXTINGUISHER CABINET			WIS	WIRE IN SERIES
FG	FILTER GRILLE				
FHRL	FIRE HOSE REEL W/HOSE VALVE				

SPRINKLER DESIGN DATA

PROJECT NAME: SENIOR & VETERAN SERVICES CENTER
PROJECT STREET ADDRESS: DUPLIN COMMONS DR. & FAIRGROUNDS DR.
OCCUPANCY DESCRIPTION: ASSEMBLY/BUSINESS
HAZARD CLASS: LIGHT/ORDINARY 1 TOTAL BLDG. HEIGHT: 25 FT

DESIGN SUMMARY

*DESIGN METHOD:	PIPE SCHEDULE	PIPE SCHEDULE
LOCATION:	VET OFFICE	SOCIAL ROOM
TYPE OF SYSTEM:	WET	WET
HAZARD CLASS:	LIGHT	LIGHT
CRITERIA FROM:	NFPA 13	NFPA 13
DESIGN AREA:	1500 SQ. FT.	2282 SQ. FT.
SPRINKLER SPACING:	225 SQ. FT.	225 SQ. FT.
DENSITY:	0.1 GPM/SQFT	0.1 GPM/SQFT
K-FACTOR:	5.6	5.6
HOSE ALLOWANCE:	100 GPM	100 GPM
# DESIGN SPRINKLER:	16	20
REQUIREMENTS @:	CITY SUPPLY	
GPM REQUIRED:	460 GPM ESTIMATED	
PSI REQUIRED:	51 PSI ESTIMATED AT HYDRANT	

ESTIMATED PRESSURE REQUIREMENTS	
PIPE LOSSES	9 PSI
SPRINKLER HEAD	7 PSI
ELEVATION LOSS	7 PSI
BACKFLOW PREVENTER	8 PSI
RESIDUAL @ SPRINKLER	15 PSI
TOTAL REQUIRED	46 PSI

* FILL-IN DATA FOR APPICABLE METHOD (CALCULATED OR PIPE SCHEDULED).

ESTIMATED WATER SUPPLY INFORMATION

	HYDRANT #1	HYDRANT #2
GPS LOCATION:	34°57'03.3"N 77°58'56.1"W	34°57'05.0"N 77°58'55.3"W
ELEVATION:	122FT	120FT
STATIC (PSI):	50 PSIG	
RESIDUAL (PSI):	30 PSIG	
FLOW (GPM):		765 GPM

NOTES:

1. COORDINATE SPRINKLER INSTALLATION WITH ALARM INSTALLATION SHOWN ON ELECTRICAL SHEETS.
2. SEE SPECIFICATIONS FOR PIPE, SPRINKLER AND SPECIALITY REQUIREMENTS.
3. K-VALUE AND QUANITY MAY VARY WITH FINAL DESIGN AND LAYOUT AND IS LISTED HERE FOR REFERENCE ONLY.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES T. HILL 07/21/23

PROJECT NO. 223009 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
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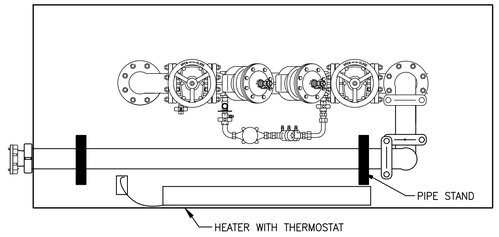
PHASE:
CONSTRUCTION DOCUMENTS

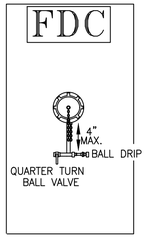
SHEET NAME & NUMBER
FIRE PROTECTION PLANS

FP1.01

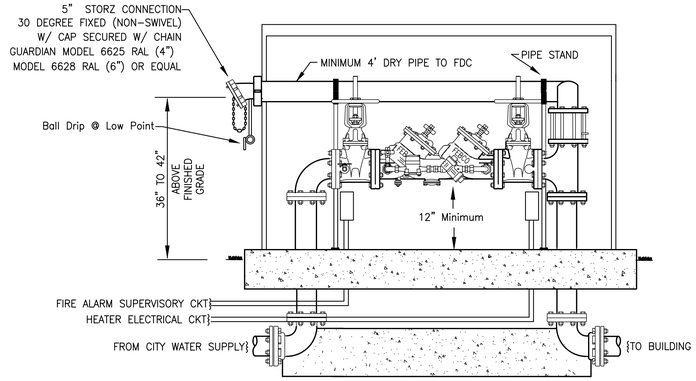


TYPICAL NOTES:

1)–ALL PIPING AND FITTINGS TO BE DUCTILE IORN, GALVANIZED BRASS, STAINLESS STEEL, OR ALUMINIUM
2)–40' MAX. FROM FDC TO APPARATUS ACCESS LOCATION
3)–FDC TO FACE FIRE APPARATUS ACCESS LOCATION (DRIVEWAY)
4)–DO NOT BLOCK APPARATUS ACCESS TO BUILDING WITH HOSE LAY FROM HYDRANT TO FDC
5)–MINIMUM DISTANCE 3 FEET BEHIND CURB, PROTECT FROM VEHICLES
6)–PROVIDE HEAT AND ALARM SUPERVISION TO HOT BOX (2 CONDUITS)
7)–COMPLY WITH PUBLIC UTILITIES HANDBOOK REQUIREMENTS



1 BACKFLOW PREVENTOR AND FDC CONNECTION
SCALE: NTS



2 BACKFLOW PREVENTOR AND FDC CONNECTION
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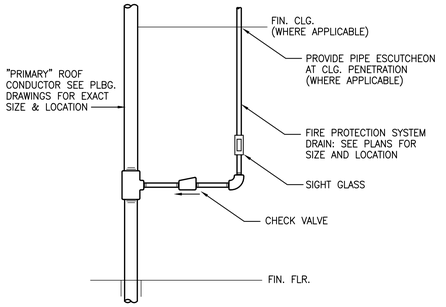
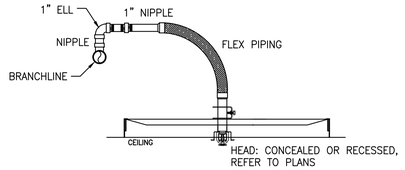
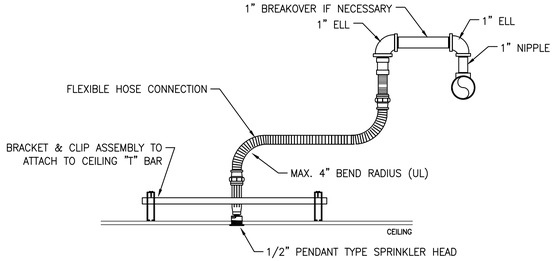


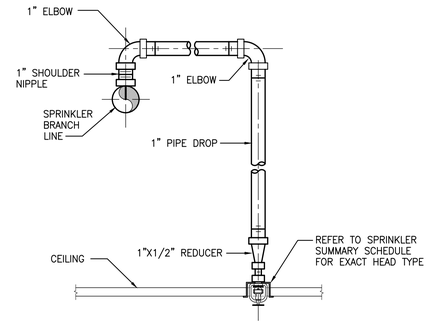
3 TYPICAL DRAIN DETAIL
SCALE: N.T.S.



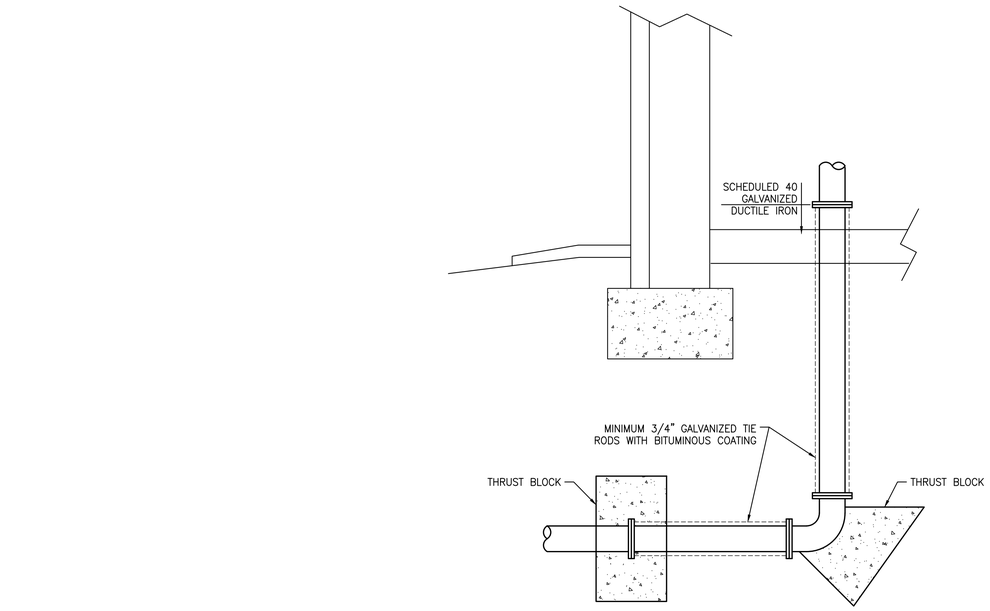
HEAD: CONCEALED OR RECESSED,
REFER TO PLANS



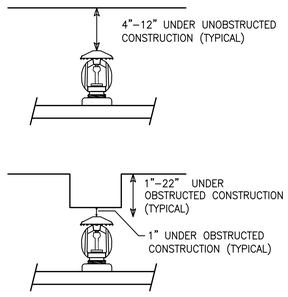
5 FLEXIBLE PIPING
SCALE: N.T.S.



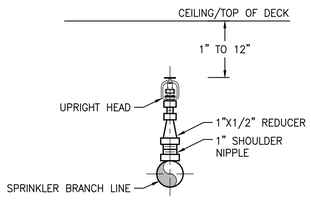
8 TYPICAL SPRINKLER DROP DETAIL
SCALE: N.T.S.



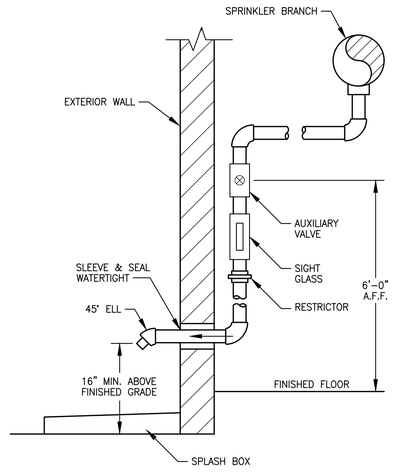
4 UG PIPE FLOOR PENETRATION
SCALE: N.T.S.



6 SPRINKLER CLEARANCES OBSTRUCTIONS
SCALE: N.T.S.



7 TYPICAL SPRINKLER HEAD UPRIGHT DETAIL
SCALE: N.T.S.



9 INSPECTORS TEST STATION DETAIL
SCALE: N.T.S.

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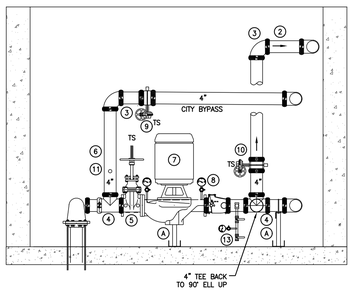
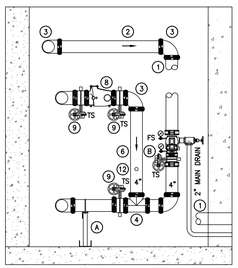
FP2.01



1 FIRE PUMP ELEVATION
SCALE: 1/2" = 1'-0"

NOTE: FIRE PUMP PLAN AND ELEVATION ARE PROVIDED TO SHOW ONE POSSIBLE ARRANGEMENT AND COORDINATE OVERALL SPACE REQUIREMENTS. FIRE SUPPRESSION DESIGNER SHALL PROVIDE FINAL LAYOUT IN COORDINATION WITH OTHER EQUIPMENT IN THE ROOM.

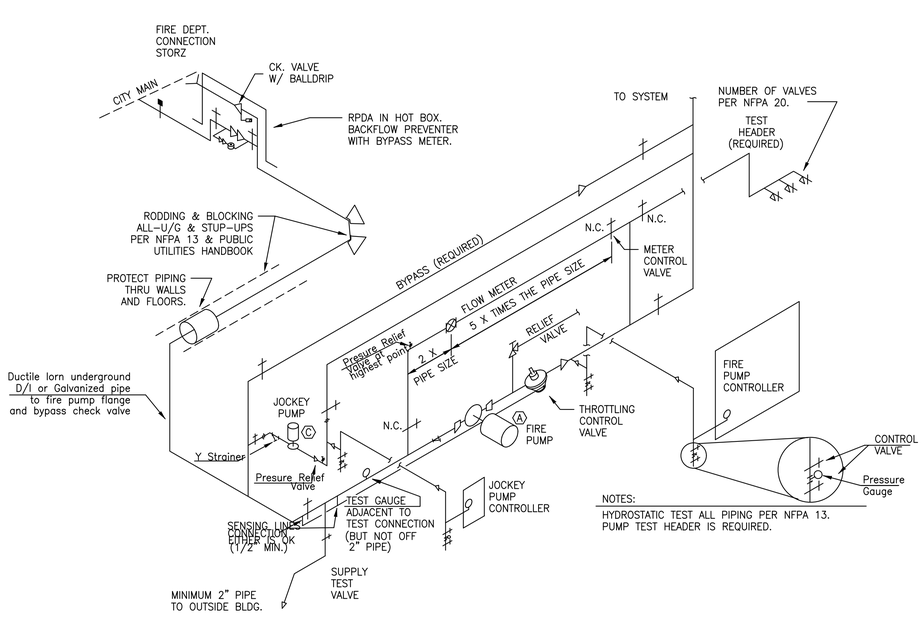


2 RISER AND TEST HEADER ELEVATION (SHORT WALL)
SCALE: 1/2" = 1'-0"

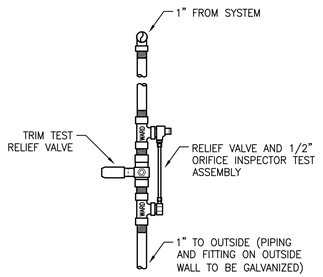
NOTE: 6" FIRE LINE STUB–IN TERMINATING AT 12" A.F.F. (BY U.C.)
USE 6x4 FLANGED ELL WITH GRV x FLG ADAPTER TO TRANSITION FORM 6" TO 4" PIPING

1. TEST HEADER ROUTED BEHIND RISER CHECK VALVE
2. 4" FIRE PUMP TEST HEADER PIPE
3. 4" GROOVED 90° ELBOW
4. 4" GROOVED TEE
5. 4" GROOVED OS&Y GATE VALVE WITH TAMPERS
6. 4" MAIN CITY BY–PASS
7. VERTICAL INLINE ELECTRIC FIRE PUMP 75–PSI @ 750 GPM
8. 4" GROOVED CHECK VALVE
9. 4" BUTTERFLY VALVE WITH TAMPER, NORMALLY OPEN
10. 4" BUTTERFLY VALVE WITH TAMPERS NORMALLY CLOSED
11. JOCKEY PUMP SUCTION – 1"ø
12. JOCKEY PUMP DISCHARGE – 1"ø
13. TO FIRE PUMP CONTROLLER – 1/2"ø

A. PIPE STAND
B. 4" GLOBE UMC SHOTGUN RISER CHECK VALVE WITH INTEGRATED BUTTERFLY VALVE, FLOW SWITCH, GAUGES & SYSTEM MAIN DRAIN TAMPER & FLOW SWITCHES



3 FIRE PUMP ISOMETRIC
SCALE: NTS



4 INSPECTOR TEST STATION DETAIL
SCALE: NTS

GENERAL NOTES:

1. THE SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING. THE DESIGN AND INSTALLATION OF A WET TYPE SPRINKLER SYSTEM FOR THE MAIN BUILDING INFORMATION PROVIDED ON THESE PLANS ARE A GENERAL GUIDE TO THE LAYOUT AND ARRANGEMENT DESIRED IN THE FINAL DESIGN. SIZES AND LAYOUTS ARE FOR ESTIMATING PURPOSES ONLY AND SHALL BE VALIDATED AND ADJUSTED AS NEEDED IN THE FINAL DESIGN. COMPONENTS SHOWN ARE A MINIMUM. ANY ADDITIONAL DEVICES, ETC. REQUIRED SHALL BE INCLUDED.
2. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY ALL BUILDING CONDITIONS AND NECESSARY INFORMATION AT THE JOB SITE TO PERFORM AND EXECUTE THE REQUIRED WORK. COORDINATE EXACT PIPE LOCATIONS AND ROUTING WITH OBSTRUCTIONS AND PROVIDE ADDITIONAL PIPING, OFFSETS, FITTINGS, TO FACILITATE PROPER INSTALLATION.
3. WORK SHALL COMPLY WITH ALL APPLICABLE NFPA STANDARDS.
4. WORK SHALL COMPLY WITH ALL REQUIREMENTS OF NC DOI AUTOMATIC SPRINKLER SYSTEMS.
5. PRIOR TO STARTING SHOP DRAWINGS, OBTAIN A FLOW TEST WITHIN 12 MONTHS ON WATER SUPPLY INDICATING STATIC PRESSURE AND INSTANTANEOUS GALLONS PER MINUTE (GPM) WITH RESULTANT RESIDUAL PRESSURE. SPRINKLER DESIGN DATA IS BASED ON RESULTS OF RECENT NEARBY TESTS. HOWEVER UPGRADES TO THE MUNICIPAL WATER SYSTEM ARE EXPECTED AND MAY BE IN PLACE PRIOR TO THE COMPLETION OF THIS PROJECT THAT MAY AFFECT FIRE PUMP SIZING. **A SAFETY FACTOR TO ACCOUNT FOR FLUCTUATIONS IN WATER SUPPLY, THE DESIGN CALCULATIONS SHALL BE BASED ON AN AVAILABLE WATER SUPPLY OF 10 PSI LESS STATIC PRESSURE, 10 PSI LESS RESIDUAL PRESSURE AND 10% LESS RESIDUAL FLOW THAN MEASURED.**
6. CONTRACTOR SHALL COORDINATE THE SPRINKLER SYSTEM DESIGN WITH ALL OTHER TRADES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING AND ELECTRICAL ETC.) AND ASSIST IN DEVELOPMENT OF DESIGN COORDINATION DRAWINGS. INCLUDE MODIFICATIONS REQUIRED TO RESOLVE CONFLICTS WITH OTHER SYSTEMS.
7. CONTRACTOR SHALL DESIGN SPRINKLER SYSTEM ON A HYDRAULICALLY CALCULATED BASIS. REFER TO SPRINKLER SUMMARY SCHEDULE IN THE SPECIFICATIONS FOR DESIGN CRITERIA AND SPRINKLER HEAD COVERAGE.
8. CONTRACTOR (MINIMUM NICET III CERTIFICATION) SHALL SUBMIT TO THE ENGINEER ALL SIGNED HYDRAULIC CALCULATIONS, SPRINKLER PLANS, AND ANY ADDITIONAL INFORMATION REQUIRED FOR APPROVAL. A LICENSED PROFESSIONAL ENGINEER MAY ALSO PROVIDE SHOP DRAWINGS. THE CONSTRUCTION DOCUMENTS ARE A PERFORMANCE DESIGN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFYING ENGINEER (PE).
9. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH 2013 NFPA 13 SECTION 9.1 & 9.2 FOR SEISMIC DESIGN CATEGORY A & B. FOR SEISMIC CATEGORY C, THE SPRINKLER DRAWINGS SHALL STATE THAT "SEISMIC REQUIREMENTS APPLY TO THIS PROJECT. HANGING, BRACING, AND RESTRAINT OF FIRE SPRINKLER PIPING SHALL BE IN ACCORDANCE WITH SECTION 9.3 OF NFPA 13. SHOP DRAWINGS MUST INCLUDE DETAILS AND SIGNIFY APPROXIMATE LOCATIONS OF ALL SEISMIC BRACING. CALCULATIONS AND LAYOUT OF RESTRAINTS SHALL BE SUBMITTED.
10. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "U.L." AND "FM" WITH 175 P.S.I. WORKING PRESSURE.
11. A HYDRAULIC DATA PLATE SHALL BE PLACED ON THE SYSTEM RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
12. ALL SPRINKLER HEADS MOUNTED IN THE CEILING SHALL BE A MINIMUM OF 4" AWAY FROM WALLS, CEILING HEIGHT CHANGES, OR ANY VERTICAL INTERSECTING SURFACE. SPRINKLER HEADS SHALL BE LOCATED CENTER ONE WAY AND AT QUARTER POINTS OF TILE.
13. FLEXIBLE HOSE CONNECTORS SHALL MEET FM 1637 OR BE UL 2443 LISTED. FLEXIBLE CONNECTIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER WRITTEN INSTALLATION INSTRUCTIONS. ONLY 304 STAINLESS STEEL, CORRUGATED HOSE WITH FULLY BRAIDED COVER SHALL BE USED. HOSE ASSEMBLY SHALL BE LIMITED TO 5 FEET MAXIMUM. HEAD SHALL BE PERMANENTLY ATTACHED TO THE CEILING USING TAMPER RESISTANT SCREWS. HYDRAULIC CALCULATIONS SHALL BE BASED ON ACTUAL PRESSURE LOSS PBULISHED BY THE MANUFACTURER. HOSE SHALL HAVE TRUE 1" INTERNAL BORE CORRUGATED HOSE DIAMETER. PLANS SHALL CLEARLY INDICATE MAXIMUM BENDS ALLOWED TO MATCH HYDRAULIC CALCULATIONS.
14. MAINTAIN A MINIMUM OF 18" FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE/FILE STORAGE.
15. PROVIDE SPRINKLER HEADS OVER AND UNDER ALL EXPOSED DUCTWORK AND EQUIPMENT 48" AND GREATER IN WIDTH (SEE MECHANICAL PLANS).
16. ALL PENETRATIONS THRU RATED WALL/FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE WALL OR FLOOR BEING PENETRATED.
17. CONTRACTOR SHALL TEST SYSTEM WITH PRESSURIZED AIR PRIOR TO FINAL TESTING. FINAL TESTING SHALL BE IN ACCORDANCE WITH NFPA 13 AND STATE CONSTRUCTION OFFICE REQUIREMENTS.
18. NECESSARY SPARE SPRINKLERS TO BE SUPPLIED AND INSTALLED IN SPARE SPRINKLER HEAD CABINET AS PER NFPA STANDARDS.
19. SMALL ROOM RULE – NFPA 13 (2013) 8.6.3.2.4 – THE REQUIREMENTS OF 8.6.3.2.1 SHALL NOT APPLY WITH SMALL ROOMS AS DEFINED IN 3.3.21. 3.3.21 – SMALL ROOMS: A COMPARTMENT OF LIGHT HAZARD OCCUPANCY CLASSIFICATION HAVING UNOBSTRUCTED CONSTRUCTION AND A FLOOR AREA NOT EXCEEDING 800 SQ FT.
20. MAINTAIN SUCTION LINE LENGTH PER NFPA 20 AND PUMP MANUFACTURER.

TABLE 17.4.2.1(a) MAXIMUM DISTANCE BETWEEN HANGERS (FT. IN.)

NOMINAL PIPE SIZE (IN.)	3/4"	1"	1–1/4"	1–1/2"	2"	2–1/2"	3"	3–1/2"	4"	5"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12–0	12–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0	15–0
THREADED LIGHTWALL STEEL PIPE	N/A	12–0	12–0	12–0	12–0	12–0	12–0	N/A	N/A	N/A	N/A	N/A
COPPER TUBE	8–0	8–0	10–0	10–0	12–0	12–0	12–0	15–0	15–0	15–0	15–0	15–0
CPVC	5–6	6–0	6–6	7–0	8–0	9–0	10–0	N/A	N/A	N/A	N/A	N/A
POLYBUYLENE (IPS)	N/A	3–9	4–7	5–0	5–11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POLYBUTYLENE (CTS)	2–11	3–4	3–11	4–5	5–5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DUCTILE IRON PIPE	N/A	N/A	N/A	N/A	N/A	N/A	15–0	N/A	15–0	N/A	15–0	15–0

100 PSI STATIC PRESSURE ON SSYTEM REQUIRES UP–LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM–OVERS AND END OF BRANCH LINE

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ONT HE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE, AND 60" FOR 1 1/2" PIPE OR LARGER.

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DRIP, OR SPRIG–UP SHALL NOT EXCEED 24"

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PROJECT NO. 223009

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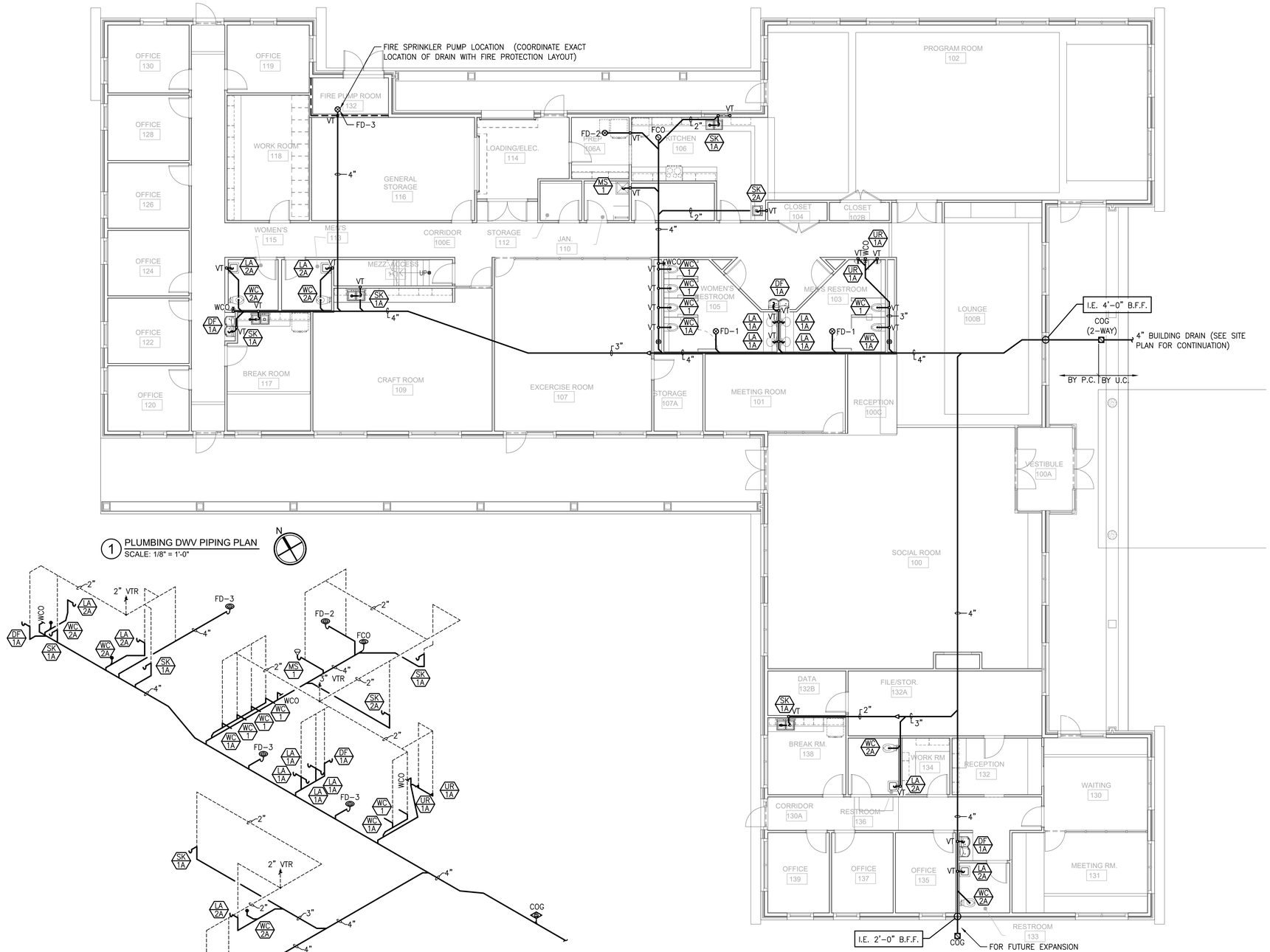
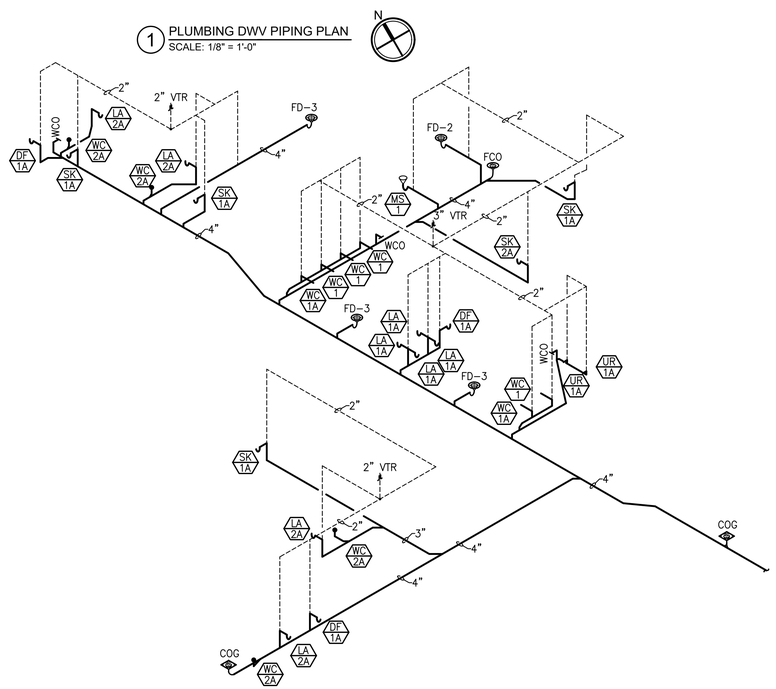
FP2.02



1 PLUMBING DWV PIPING PLAN
SCALE: 1/8" = 1'-0"



PLUMBING DWV PIPING RISER
SCALE: N.T.S.

FIRE RATING LEGEND
1 - HR FIRE PARTITION

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31486 JAMES T. HAM 7/21/23

PROJECT NO. 223009
PROJECT MGR. D. HAM
DRAWN BY D. HILL

REVISIONS:

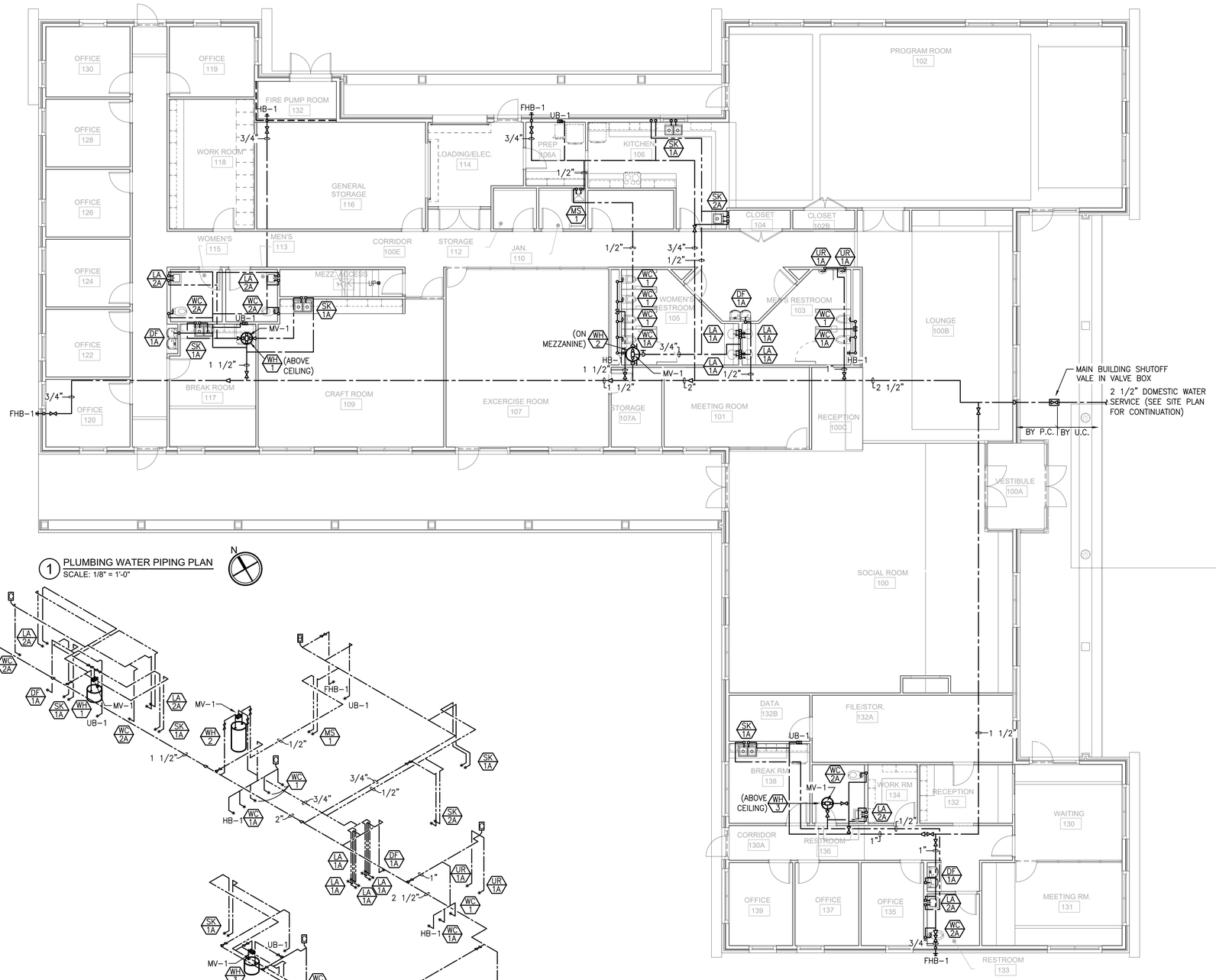
#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

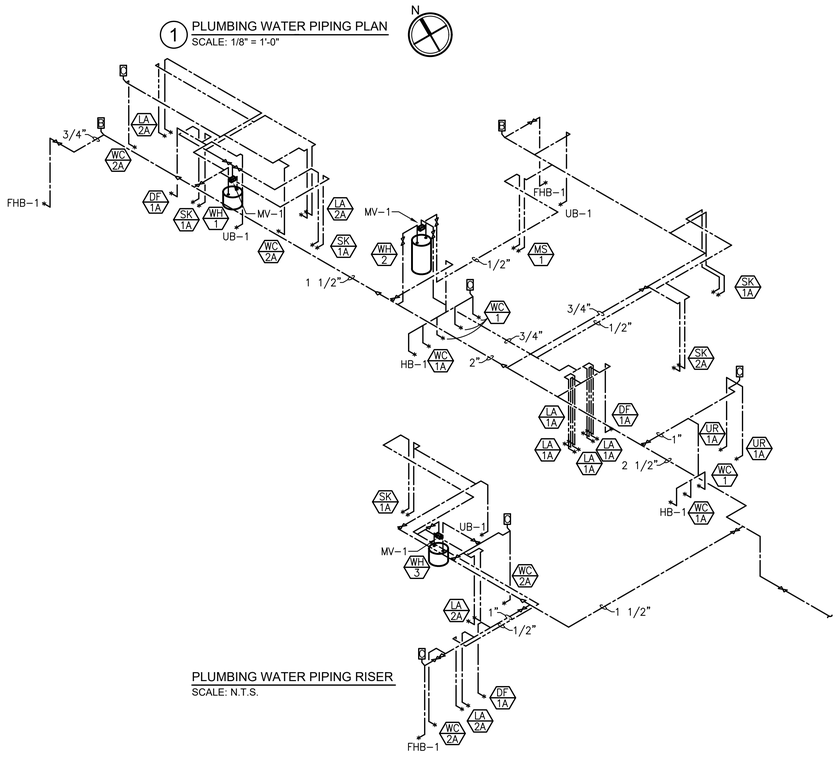
PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
PLUMBING DWV PLANS

P1.01



1 PLUMBING WATER PIPING PLAN
SCALE: 1/8" = 1'-0"



PLUMBING WATER PIPING RISER
SCALE: N.T.S.

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PROJECT MGR. D. HAM
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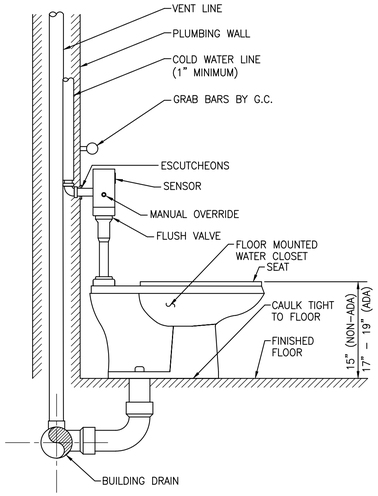
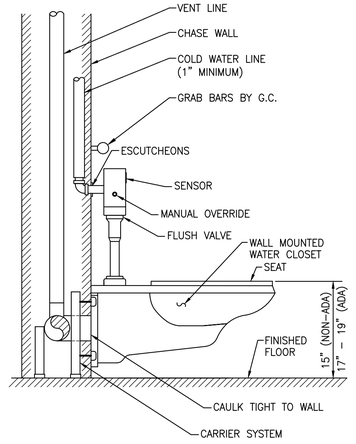
PLUMBING WATER PLANS

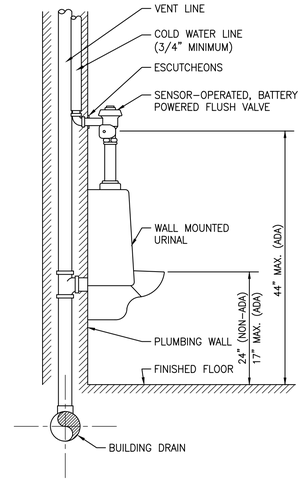
P1.02



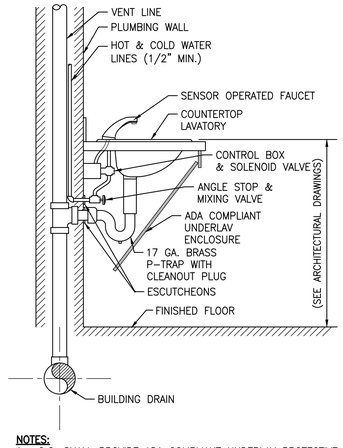
1 FLOOR MOUNTED WC WITH SENSOR OPERATED FLUSH DETAIL
SCALE: N.T.S.



2 WALL MOUNTED WC W/SENSOR OPERATED FLUSH VALVE DETAIL
SCALE: N.T.S.

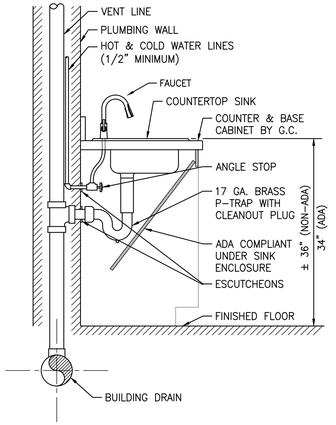


3 WALL MOUNTED URINAL W/SENSOR OPERATED FLUSH VALVE DETAIL
SCALE: N.T.S.



NOTES:
1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERLAV PROTECTIVE ENCLOSURES FOR ALL ADA LAVATORIES.
2. LAVATORY SUPPLY KIT SHALL INCLUDE 2-CHROME PLATED BRASS ANGLE STOPS, 2-CHROME PLATED COPPER RISERS AND 2-CHROME PLATED STEEL FLANGES (McGUIRE #2165CC OR EQUAL)

4 COUNTERTOP MOUNTED LAVATORY DETAIL
SCALE: N.T.S.



NOTES:
1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERSPACE SINK PROTECTIVE ENCLOSURES FOR ALL ADA SINKS.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW.)

5 COUNTERTOP MOUNTED SINK DETAIL
SCALE: N.T.S.

NOTES:
1. PROVIDE ADA LAVATORIES WITH PRE-WRAPPED ANTI-MICROBIAL MOLDED CLOSED CELL VINYL ON EXPOSED HOT & COLD WATER AND DRAIN LINES. (McGUIRE PROWRAP OR EQUAL).
2. LAVATORY SUPPLY KIT SHALL INCLUDE 2-CHROME PLATED BRASS ANGLE STOPS, 2-CHROME PLATED COPPER RISERS AND 2-CHROME PLATED STEEL FLANGES (McGUIRE #2165CC OR EQUAL)

6 WALL MOUNTED LAVATORY DETAIL
SCALE: N.T.S.

NOTES:
GROUT BOTTOM AND CAULK ALL EDGES FOR COMPLETE SEAL TO FLOOR AND WALLS.

7 FLOOR MOUNTED MOP SINK DETAIL
SCALE: N.T.S.

NOTES:
1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS
2. COORDINATE SOLID SUPPORT WOOD BLOCKING REQUIREMENTS WITH G.C.
3. COORDINATE RECEPTACLE MOUNTING LOCATION WITH E.C. PER INSTALLATION INSTRUCTIONS.

8 WALL MOUNTED ELECTRIC WATER COOLER DETAIL
N.T.S.

9 CLEANOUT ON GRADE WITH LONG SWEEP BEND OR 2-WAY TEE DETAIL
SCALE: N.T.S.

10 FLOOR CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.

NOTES:
1. FINISHED FLOOR SHALL BE SLOPED TO DRAIN FLUSH WITH STRAINER WHERE REQUIRED, COORDINATE WITH G.C.

11 FLOOR DRAIN DETAIL
SCALE: N.T.S.

NOTE:
1. COORDINATE INSTALLATION OF W.P. MEMBRANE WITH G.C..

12 ICE MACHINE DRAIN
SCALE: N.T.S.

13 WALL CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.

14 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.

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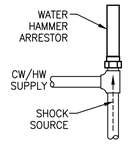
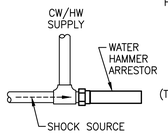
P2.01



VERTICAL INSTALLATION



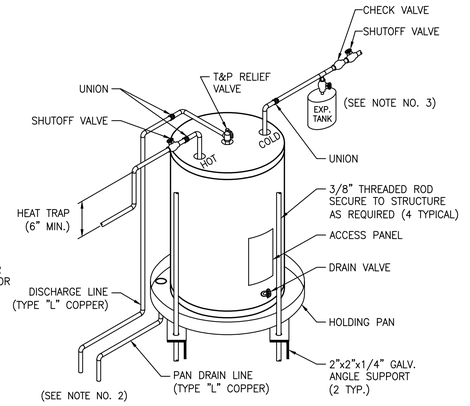
HORIZONTAL INSTALLATION

WATER HAMMER SIZING TABLE		
SIZE	FIXTURE UNITS	*PDI UNITS
1/2"	1–11	A
3/4"	12–32	B
1"	33–60	C
1 1/4"	61–113	D
1 1/2"	114–154	E
2"	155–330	F

*PLUMBING & DRAINAGE INSTITUTE STANDARD PDI–WH201.

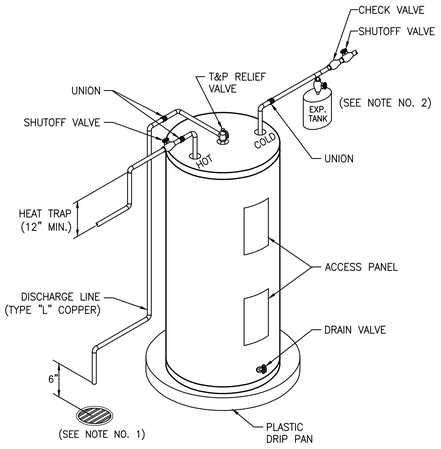
NOTE: SEE PLANS FOR LOCATIONS OF WATER HAMMER ARRESTORS.

1 WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



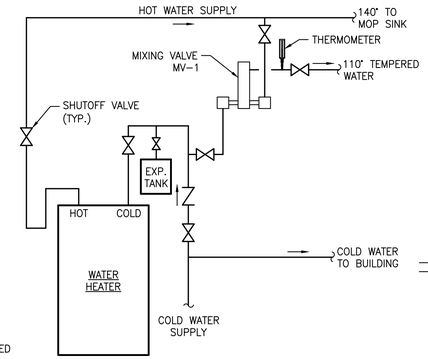
NOTES:
1. PAN SHALL BE CONSTRUCTED OF A MIN. OF 24 GA. GALV. METAL OR 1/16 INCH HIGH IMPACT PLASTIC AND SUFFICIENT SIZE & SHAPE TO RECEIVE ALL DRIPPINGS.
2. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NCPC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE.
3. DISCHARGE & PAN DRAIN SHALL BE FULL–SIZE OF RELIEF VALVE BUT NOT LESS THAN 1 INCH, TERMINATING OVER A SUITABLY LOCATED DRAIN OR EXTERIOR OF BUILDING 6 INCHES ABOVE DRAIN/GRADE.
4. PROVIDE PRE–CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 2 GALLON CAPACITY U.N.O. AND APPROVED FOR POTABLE WATER SYSTEMS.

2 CEILING MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.

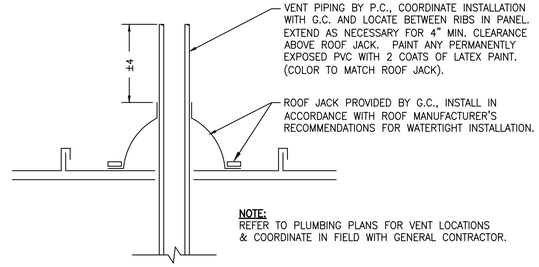


NOTES:
1. DISCHARGE LINE FROM RELIEF VALVE SHALL BE PIPED FULL–SIZE TO OUTSIDE OF BUILDING OR DRAIN – TERMINATE 6 INCHES ABOVE GRADE/DRAIN.
2. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NCPC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE.
3. PROVIDE PRE–CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 5 GALLON CAPACITY U.N.O. IN SPECIALTIES SCHEDULE AND APPROVED FOR POTABLE WATER SYSTEMS.

3 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.

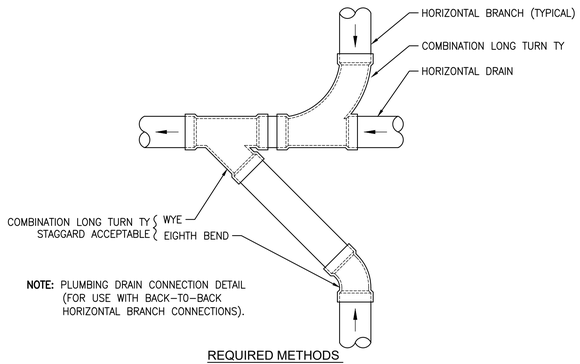


4 WATER HEATER CONNECTION DETAIL
SCALE: N.T.S.



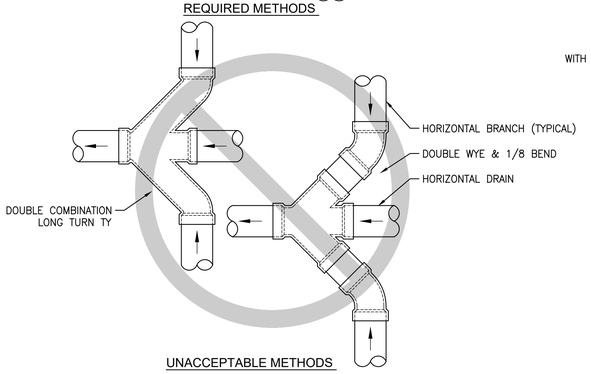
NOTE:
REFER TO PLUMBING PLANS FOR VENT LOCATIONS & COORDINATE IN FIELD WITH GENERAL CONTRACTOR.

5 VENT THRU ROOF (METAL STANDING SEAM) DETAIL
SCALE: N.T.S.



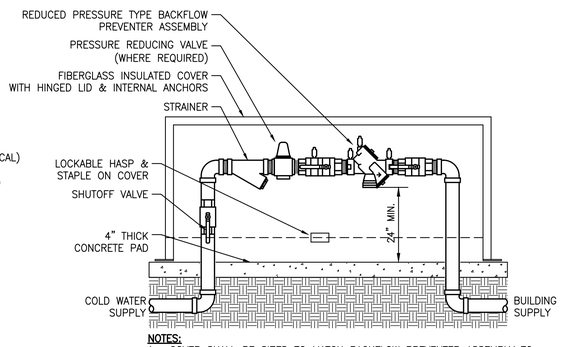
NOTE: PLUMBING DRAIN CONNECTION DETAIL (FOR USE WITH BACK–TO–BACK HORIZONTAL BRANCH CONNECTIONS).

REQUIRED METHODS



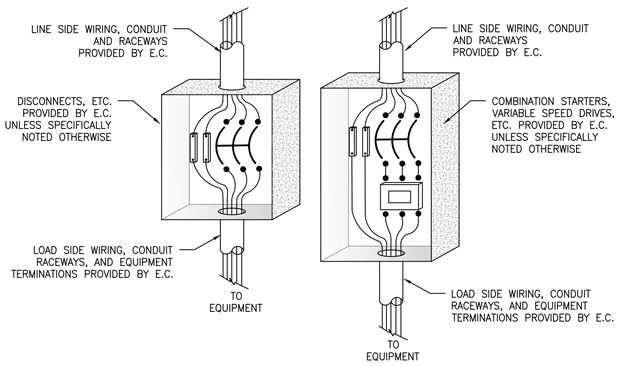
UNACCEPTABLE METHODS

6 HORIZONTAL DRAIN CONNECTION DETAIL
SCALE: N.T.S.



NOTES:
1. COVER SHALL BE SIZED TO MATCH BACKFLOW PREVENTER ASSEMBLY TO ALLOW ADEQUATE CLEARANCE FOR TESTING AND MAINTENANCE.
2. PROTECT PIPING & ASSEMBLY FROM FREEZING WITH HEATER OPTION.
3. SET PRV INITIAL PRESSURE AT 60 PSI.

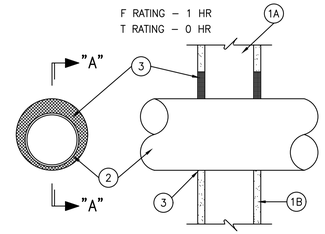
7 RPZ BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



8 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.

UL SYSTEM NO. W–L–1108

F RATING – 1 HR
T RATING – 0 HR



SECTION "A–A"

1. WALL ASSEMBLY – THE FIRE–RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED16 IN. O.C. STEEL STUDS TO BE MIN 2–1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
   B. WALLBOARD, GYPSUM* – ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11–3/4 IN.
2. THROUGH PENETRANTS – ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
   A. STEEL PIPE – NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   B. IRON PIPE – NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   C. CONDUIT – NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   D. COPPER TUBING – NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   E. COPPER PIPE – NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
3. FILL, VOID OR CAVITY MATERIAL*–CAULK– MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.–METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

9 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.

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P2.02

PLUMBING LEGEND

SYMBOL	ABBR	DESCRIPTION
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	W	SOIL OR WASTE LINE
	VT	VENT LINE
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	COG	CLEANOUT ON GRADE
	FD	ROUND FLOOR DRAIN
	HB	HOSE BIB/HYDRANT
	FHB	FROSTPROOF HOSE BIB/HYDRANT
	WA	WATER ARRESTOR (PDI SIZE "A")
	–	SHUTOFF VALVE
	BFP	BACKFLOW PREVENTER
	–	UNION
	–	THERMOMETER
	PG	PRESSURE GAUGE WITH COCK
FS	FS	FLOW SWITCH
	RP	RECIRCULATION PUMP
	–	CONCENTRIC REDUCER
	–	FLOW DIRECTION ARROW
	–	FIXTURE MARK (SEE SCHEDULE)
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	M.C.	MECHANICAL CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	BFG	BELOW FINISHED GRADE

PLUMBING NOTES:

1. PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC.
3. ALL WORK SHALL COMPLY WITH LOCAL, STATE & ADA CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE OF ANY DEVIATIONS.
5. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
6. COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5–FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10–FEET OUTSIDE OF BUILDING & PROVIDE 2–WAY CLEANOUT.
7. COORDINATE VENT THRU ROOF (VTR) LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 20 FEET. VTR SHALL BE LOCATED ON REAR OF PITCHED ROOF BUILDINGS.
8. CONTRACTOR SHALL COORDINATE LOCATION & TYPE OF VTR BOOTS WITH G.C.. CONTRACTOR SHALL FURNISH & INSTALL THE REQUIRED BOOTS. G.C. SHALL ENGAGE ROOFING CONTRACTOR TO ASSURE WEATHER–TIGHTNESS OF INSTALLATION. ANY EXPOSED PVC PIPING SHALL BE PAINTED WITH 2–COATS OF LATEX PAINT – COLOR SELECTED BY ARCHITECT.
9. COORDINATE INSTALLATION OF PLUMBING LINES WITHWALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
10. DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 2665, SOLID–WALL, SCHEDULE 40 PVC WITH SOLVENT–WELDED SOCKET TYPE FITTINGS (FOAM CORE PIPING IS NOT ACCEPTABLE). INSTALL PVC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 AND FOR BURIED PIPE ASTM D2321. SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.
11. ABOVE GRADE/SLAB WATER PIPING SHALL BE ASTM B 88, HARD DRAWN, TYPE L COPPER WITH SOLDERED, BRAZED WROUGHT–COPPER FITTINGS OR VIEGA PROPRESS FITTINGS.
12. BELOW GRADE/SLAB WATER PIPING (INSIDE OF BUILDING) SHALL BE ASTM B 88, SOFT ANNEALED, TYPE K COPPER WITH SOLDERED OR BRAZED WROUGHT–COPPER FITTINGS. MINIMIZE JOINTS BELOW SLAB.
13. DOMESTIC WATER SERVICE PIPING: (SEE SITE PLANS).
14. PC SHALL PROVIDE WATER SERVICE PRESSURE REDUCING VALVE (PRV) IF SERVICE PRESSURE IS FOUND TO BE GREATER THAN 60 PSI. PRV SHALL BE HIGH CAPACITY TYPE. SEE DETAIL FOR LOCATION. (SET INITIAL PRESSURE AT 60 PSI).
15. WATER PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX SHALL BE IN ACCORDANCE WITH NC PLUMBING CODE SECTION 605.
16. INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
17. WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
18. PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICEABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
19. UNLESS NOTED OTHERWISE ALL VALVES SHALL BE FULL PORT BRONZE OR BRASS BALL VALVES WITH THREADED OR SWEAT CONNECTIONS AS APPLICABLE TO THE CONNECTING PIPING.
20. PROTECT COPPER PIPING FROM DIRECT CONTACT WITH MASONRY OR DISSIMILAR METAL.
21. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER PLATED OR PROVIDED WITH ELECTROLYTIC ISOLATION MATERIAL ON COPPER PIPING. ALL OTHER HANGERS AND SUPPORTS SHALL BE PAINTED OR GALVANIZED.
22. PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
23. INSTALL SCHEDULE 80 PVC OR DUCTILE IRON PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
24. PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS OR WATER RISER.
25. PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P–TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
26. VERIFY FINAL LOCATIONS FOR ROUGH–INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
27. INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
28. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
29. ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
30. DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE SECTION 312.
31. POTABLE WATER PIPING SHALL BE PURGED AND DISINFECTED. FLUSH SYSTEM WITH CLEAN, POTABLE WATER. ISOLATE AND FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ALLOW TO STAND FOR THREE HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE SOLUTION IS REMOVED. SUBMIT WATER SAMPLE REPORT TO AUTHORITY HAVING JURISDICTION.
32. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.
33. COORDINATE LOCATIONS AND CONNECTION SIZES OF WASTE AND WATER LINES WITH KITCHEN EQUIPMENT SUPPLIER. P.C. SHALL MAKE ALL FINAL CONNECTIONS.

LOAD/DEMAND TABLE

FIXTURE TYPE	QTY.	DRAIN FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS				
		DRAIN	TOTAL	COLD	HOT	CW & HW	HOT TOTAL	SUPPLY TOTAL
WATER CLOSET (VALVE)	10	4.0	40.0	10.0		10.0		100.0
FUTURE WATER CLOSET	2	4.0	8.0	10.0		10.0		20.0
URINAL (3/4" INLET)	2	2.0	4.0	5.0		5.0		10.0
LAVATORY (SMALL P.O.)	8	1.0	8.0	1.5	1.5	2.0	12.00	16.00
FUTURE LAVATORY	2	1.0	2.0	1.5	1.5	2.0	3.00	4.00
DRINKING FOUNTAIN	6	0.5	3.0	0.25		0.25		1.50
MOP SINK	1	3.0	3.0	2.25	2.25	3.0	2.25	3.00
KITCHEN SINK	1	2.0	2.0	1.5	1.5	2.0	1.50	2.00
COMBINATION SINK	4	2.0	8.0	2.25	2.25	3.0	9.00	12.00
TOTAL LOAD (FIXTURE UNITS)			78.00	TOTAL LOAD (FIXTURE UNITS)			27.75	168.50
				TOTAL DEMAND (GPM)			36	83
MINIMUM LINE SIZE			4"	MINIMUM LINE SIZE			1 1/2"	2 1/2"
APPLIED LINE SIZE			4"	APPLIED LINE SIZE			1 1/2"	2 1/2"

NOTES:
1. LINE SIZES SHOWN FOR TYPE "L" COPPER. PEX SIZES WILL INCREASE FROM PLAN SIZES.
2. SIZE INCLUDES 2 FUTURE WATER CLOSETS (VALVE TYPE) AND 2 LAVATORIES.

PLUMBING FIXTURE SCHEDULE

FIX. NO.	DESCRIPTION	CW	HW	DRAIN	FAUCETS, VALVES & ACCESSORIES	NOTES
WC–1	WATER CLOSET FLUSH VALVE TYPE, WALL MOUNTED, ELONGATED EXPOSED, SENSOR OPERATED, BATTERY POWERED LOW–CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8" MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M NON–ADA (+/–14" RIM HEIGHT)	1"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SENSOR FLUSH VALVE: EQUAL TO SLOAN OPTIMA 8111–1.6 CLOSET SUPPORTS: EQUAL TO JR SMITH FIGURE 200–Y SERIES SEAT: SELF–SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	
WC–1A	WATER CLOSET FLUSH VALVE TYPE, WALL MOUNTED, ELONGATED EXPOSED, SENSOR OPERATED, BATTERY POWERED LOW–CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8" MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/–17" RIM HEIGHT)	1"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SENSOR FLUSH VALVE: EQUAL TO SLOAN 113 SMOOTH–1.6 CLOSET SUPPORTS: EQUAL TO JR SMITH FIGURE 200Y SERIES SEAT: SELF–SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	PROVIDE WITH TRUE MECHANICAL OVERRIDE BUTTON
WC–2A	WATER CLOSET FLUSH VALVE TYPE, FLOOR MOUNTED, ELONGATED EXPOSED, SENSOR OPERATED, BATTERY POWERED LOW–CONSUMPTION (1.6 GPF) FULLY GLAZED 2" MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/–17" RIM HEIGHT)	1"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SENSOR FLUSH VALVE: EQUAL TO SLOAN OPTIMA 8111–1.6 SEAT: SELF–SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	FLUSH HANDLE OPENING SHALL BE ON RIGHT HAND OR LEFT HAND AS REQUIRED TO MEET ADA (SEE DETAIL)
UR–1A	URINAL MANUAL FLUSH VALVE TYPE, WALL MOUNTED, WASHOUT ULTRA LOW–CONSUMPTION (0.5 GPF) MEETS ASME A112.19.2M & 19.6M ADA & NON–ADA APPLICATIONS	3/4"		1 1/2"	FIXTURE BY: AMERICAN STANDARD, SLOAN, KOHLER MANUAL FLUSH VALVE: EQUAL TO SLOAN REGAL 186–0.5–SF SUPPORT: EQUAL TO ZURN Z1222 MATERIAL: VITREOUS CHINA COLOR: WHITE	REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS
LA–1A	UNDER COUNTERTOP LAVATORY 19"X16" OVAL WITH SIX MOUNTING CLIPS BATTERY SENSOR OPERATED FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON–ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER FAUCET: EQUAL TO SLOAN EAF–350–ISM (CHROME) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA COLOR: WHITE	– REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS – PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
LA–2A	WALL HUNG LAVATORY WHITE 20"X18" WITH BACK & SIDE SPLASH SHIELDS BATTERY SENSOR OPERATED FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON–ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD MURRO 0955.001EC CENTER HOLE, SLOAN OR KOHLER FAUCET: EQUAL TO SLOAN EAF–350–ISM (CHROME) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA SINK AND KNEE SHROUD WALL CARRIER: ZURN Z1231 OR Z1231–D SHROUD: AMERICAN STANDARD 0059.020EC (VITREOUS CHINA)	– REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS – PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
SK–1A	DOUBLE BOWL SINK (33" X 22" X 8") 18 GAUGE TYPE 304, 18–8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM DUAL LEVER FAUCET WITH SPRAYER (1.5 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 27C1934 STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH
SK–2A	SINGLE BOWL EXTRA DEEP SINK (22" X 22" X 12") 18 GAUGE TYPE 304, 18–8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM DUAL WRIST BLADE WITH WALL FORM SWING SPOUT FAUCET (2.2 GPM AERATOR)	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 27C2125 (3–HOLE) STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH
DF–1A	ELECTRIC WATER COOLER WITH BOTTLE FILLER (FILTERED) DUAL LEVEL, WALL MOUNT WITH STAINLESS STEEL FINISH ADA COMPLIANT	3/8"		1 1/4"	EQUAL TO ELKAY LZSTL8WSSP BUBBLER: FLEXI–GUARD ANTI–MICROBIAL SAFETY TYPE CABINET FINISH: STAINLESS STEEL OPTION ELECTRICAL: 4 AMPS @ 120V/1PH	PROVIDE WITH CANE APRON OPTION IN NON–RECESSED APPLICATIONS.
MS–1	MOP SINK SERVICE BASIN (24"Wx24"Lx10"D) WHITE MOLDED–STONE	1/2"	1/2"	3"	EQUAL TO FIAT MSB–2424 FAUCET: 830–AA PROVIDE WITH STAINLESS STEEL BUMPER GUARDS, MOP BRACKET, HOSE & HOSE BRACKET AND STAINLESS STEEL WALL GUARDS	

PLUMBING SPECIALTIES SCHEDULE

MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.	NOTES
FCO	ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220–1–34B–P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
COG	WHEEL TRAFFIC CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220–4–34B–P–XR	SEE PLANS FOR SIZES, HEAVY DUTY TOP
WCO	WALL CLEANOUT WITH BRONZE PLUG & S.S. COVER	MIFAB	C1430–RD	SEE PLANS FOR SIZES
WHA	WATER HAMMER ARRESTOR	PPP	SWA (PDI SIZE)	
FD–1	AREA FLOOR DRAIN	MIFAB	F1100–C–5"–1–6–P (5" ROUND STRAINER)	
FD–2	ICE MACHINE DRAIN WITH SS RAISED LIP	MIFAB	F1100–C–ER–7"–28 (7" ROUND STRAINER)	
FD–3	AREA FLOOR DRAIN	MIFAB	F1100–C–1–6–P–4" (8" ROUND STRAINER)	
UB–1	UTILITY BOX – ICE MAKER	OATEY	39152	INCLUDES WATER HAMMER ARRESTOR
PMV–1	POINT–OF–USE MIXING VALVE (SETPOINT: 110°F)	BRADLEY	S59–4000BY (ASSE 1070 & COLD SIDE BYPASS)	3 GPM @ 15 PSI PRESSURE DROP
MV–2	THERMOSTATIC MIXING VALVE (SETPOINT: 110°F)	LEONARD	370–LF–SW–DT (3/4" INLET/OUTLET)	8.0 GPM @ 20 PSI PRESSURE DROP
EXP	WATER HEATER EXPANSION TANK	A.O. SMITH	PMC–2 (2 GALLON)	
BFP–1	BACKFLOW PREVENTER (RPZ) – DOMESTIC WATER	WATTS	LF009M2QT–S–2.5	PROVIDED WITH HEATED ENCLOSURE
BFP–2	BACKFLOW PREVENTER – ICE MACHINE	WATTS	SD2–MF–3/8	
FHB–1	FREEZELESS WALL FAUCET WITH BACKFLOW PROTECTION	WOODFORD	27	PROVIDE WITH TEE KEY
HB–1	WALL FAUCET WITH ANTI–SIPHON PROTECTION	WOODFORD	21 (CHROME)	PROVIDE WITH TEE KEY

PLUMBING PIPING INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
DOMESTIC WATER	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	COLD 1/2" OR LESS COLD 3/4" – 3" HOT 1 1/2" OR LESS HOT > 1 1/2"	1/2" 1" 1" 1.5"	–
FLOOR DRAINS, TRAPS & WASTE PIPING 10' FROM DRAIN RECEPTOR	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	ALL	1"	USE ONLY ON DRAINS RECEIVING CONDENSATE SUBJECT TO SWEAT

NOTES:
1. ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

ELECTRIC WATER HEATER SCHEDULE

MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING WEIGHT	SIZE HTxDIA
WH–1	20 GAL	8.0	80°F	1.5	120V/1Ø	13.0	3/4"	3/4"	A.O. SMITH	DEL–20	240 LBS	22"x22"Ø
WH–2	40 GAL	23.0	80°F	4.5	208V/1Ø	22.0	3/4"	3/4"	A.O. SMITH	DEN–40	510 LBS	59"x21"Ø
WH–3	20 GAL	8.0	80°F	1.5	120V/1Ø	13.0	3/4"	3/4"	A.O. SMITH	DEL–20	240 LBS	22"x22"Ø

NOTES:
1. SET OUTLET WATER TEMPERATURE AT 110°F.
2. SET OUTLET WATER TEMPERATURE AT 140°F.
3. PROVIDE WITH 3–YEAR TANK WARRANTY AND 1–YEAR PARTS WARRANTY.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES D. HILL 07/21/23

DRAWN BY: D. HILL
PROJECT MGR.: D. HAM
PROJECT NO.: 223009

REVISIONS:

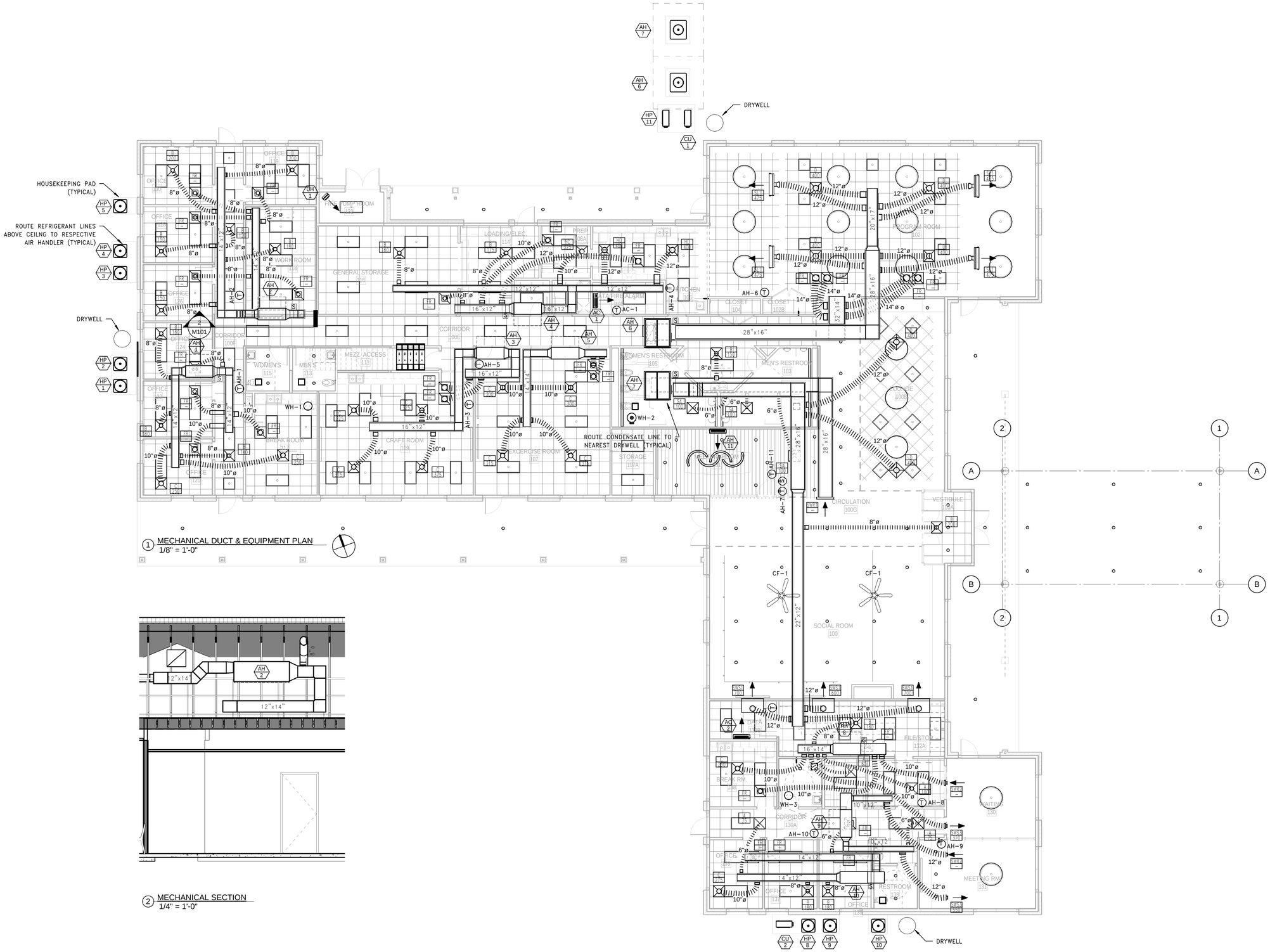
#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
PLUMBING NOTES & SCHEDULES

P3.01



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PHASE:
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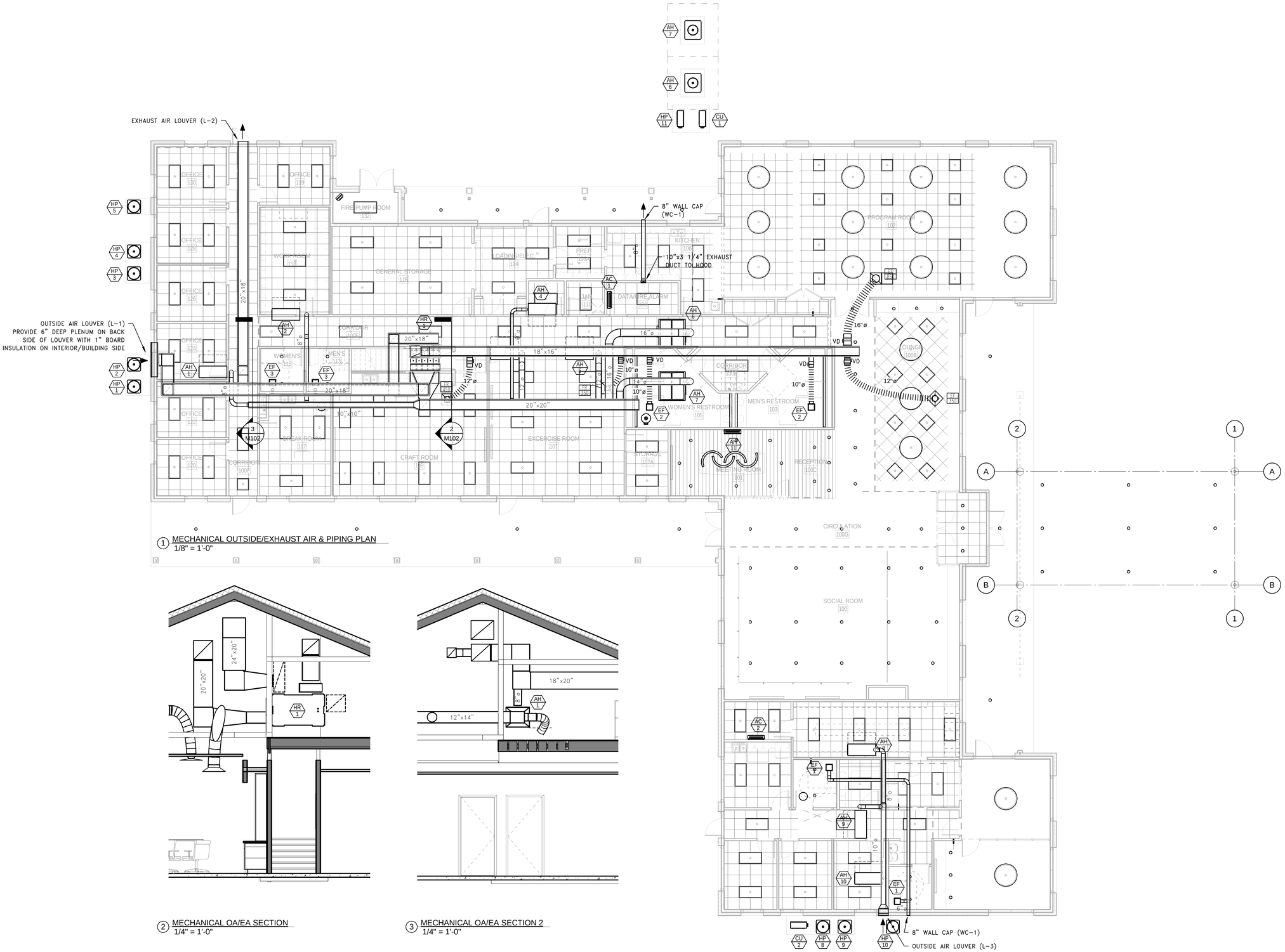
SHEET NAME & NUMBER

MECHANICAL SUPPLY & RETURN AIR PLAN

M1.01



1 MECHANICAL OUTSIDE/EXHAUST AIR & PIPING PLAN
1/8" = 1'-0"

2 MECHANICAL OA/EA SECTION
1/4" = 1'-0"

3 MECHANICAL OA/EA SECTION 2
1/4" = 1'-0"

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REVISIONS:

#	DESC:	DATE

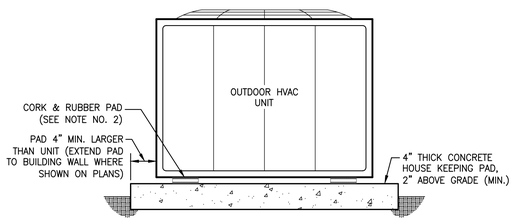
DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

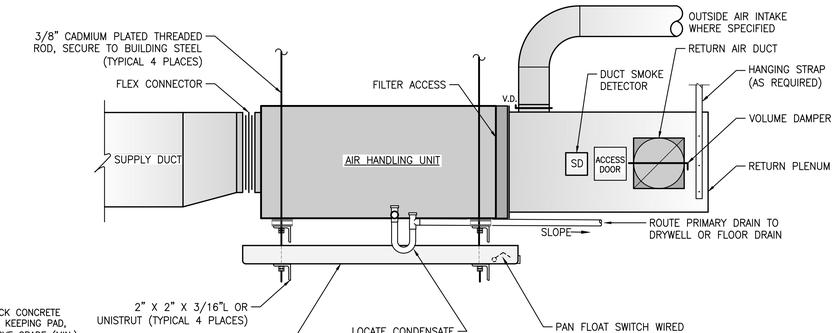
MECHANICAL
OUTSIDE &
EXHAUST AIR PLAN

M1.02



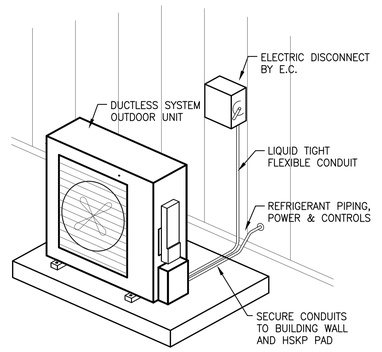
NOTES:
1. MAINTAIN EQUIPMENT MFG'S. RECOMMENDED CLEARANCES AND A MINIMUM OF 6" BEYOND SPLASH LINE OF ROOF OVERHANG.
2. CORK & RUBBER PADS ARE NOT REQUIRED WHEN UNITS HAVE INTEGRAL PLASTIC BASES.

1 OUTDOOR HVAC UNIT DETAIL
SCALE: N.T.S.



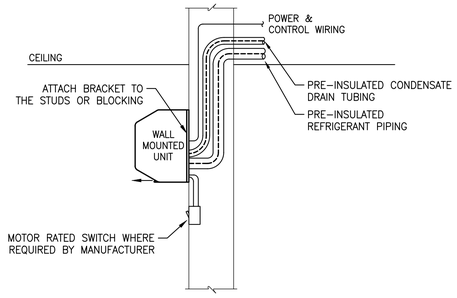
NOTES:
1. DRAIN PIPING SHALL BE 3/4" SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON PLANS.
2. CONDENSATE TRAP KIT SHALL BE EQUAL TO EZ-TRAP EZT-113B AS MANUFACTURED BY RECTORSEAL.

2 ABOVE CEILING AIR HANDLING UNIT DETAIL
SCALE: N.T.S.

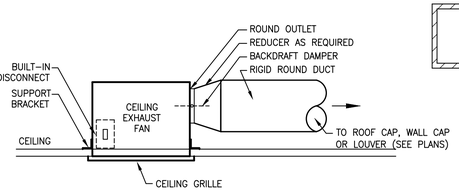


NOTE: MAINTAIN EQUIPMENT MANUFACTURER'S RECOMMENDED CLEARANCES FOR AIR FLOW AND SERVICE.

3 PAD MOUNTED CONDENSING UNIT DETAIL (DUCTLESS UNIT)
SCALE: N.T.S.

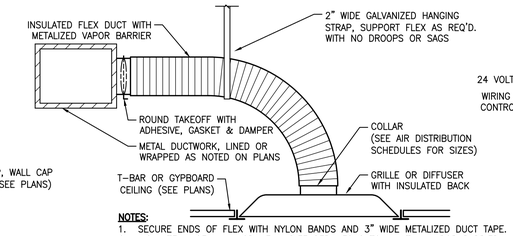


4 WALL MOUNTED UNIT (DUCTLESS UNIT) DETAIL
SCALE: N.T.S.



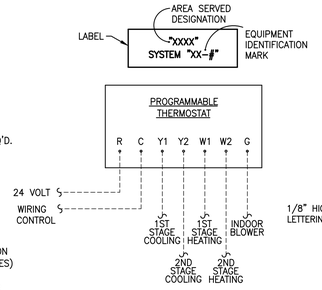
NOTE: E.C. SHALL PROVIDE GFCI BRANCH PROTECTED CIRCUIT WHEN LOCATED ABOVE TUB/SHOWER.

5 CEILING MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.



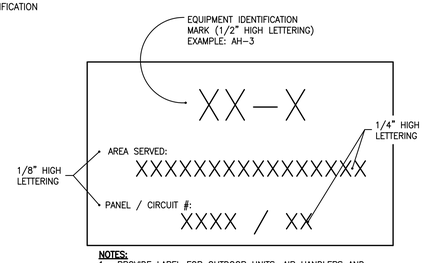
NOTES:
1. SECURE ENDS OF FLEX WITH NYLON BANDS AND 3" WIDE METALIZED DUCT TAPE.
2. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATE.

6 AIR DISTRIBUTION DETAIL
SCALE: N.T.S.



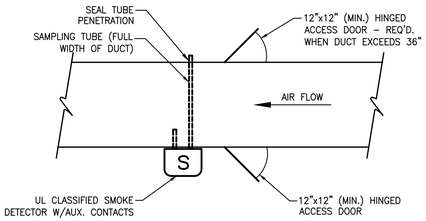
NOTE: LABEL T-STAT WITH PHENOLIC ENGRAVING STOCK WITH WHITE SURFACE AND BLACK 1/4" HIGH LETTERING.

7 THERMOSTAT DETAIL
SCALE: N.T.S.



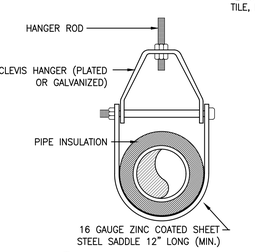
NOTES:
1. PROVIDE LABEL FOR OUTDOOR UNITS, AIR HANDLERS AND WALL FANS.
2. EQUIPMENT LABELS SHALL BE 3"x5" PHENOLIC ENGRAVING STOCK WITH WHITE SURFACE AND BLACK LETTERING.
3. LAY-IN CEILING TILES BELOW AIR HANDLER SHALL HAVE AIR HANDLER ID'S. LABELS SHALL BE PRINTED IN BLACK WITH LABEL MAKER.

8 EQUIPMENT IDENTIFICATION LABELS DETAIL
SCALE: N.T.S.

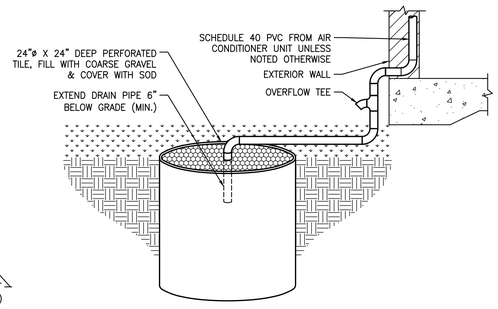


NOTES:
1. EXTEND SAMPLING TUBE SUCH THAT IT PENETRATES FAR SIDE OF DUCT USE INTERMEDIATE SUPPORT IF DUCT EXCEEDS 36". PENETRATION SHALL BE SEALED AIRTIGHT.
2. LOCATE SMOKE DETECTOR IN RETURN DUCT UPSTREAM OF OUTSIDE AIR INTAKE IN NON-TURBULANT AIRSTREAM. INSTALL PER MFG'S. DETAILED INSTALLATION INSTRUCTIONS.
3. SAMPLING TUBE SHALL BE LEVEL OR SLOPING DOWN AWAY FROM DETECTOR.
4. PROVIDE WITH REMOTE ALARM HORN, ALARM LED, TROUBLE LED, AND TEST/RESET SWITCH. LOCATE 84" AFF OVER SYSTEM THERMOSTAT OR WHERE SHOWN ON PLANS. PROVIDE ENGRAVED LABEL "AIR DUCT DETECTOR REMOTE STATION". INSTALLATION SHALL BE IN ACCORDANCE WITH N.C. MECHANICAL CODE SECTION 606.4.1 AND NFPA 90A.

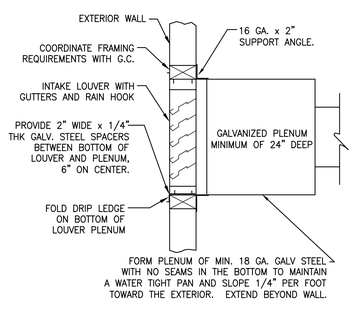
9 DUCT SMOKE DETECTOR CONNECTED TO CENTRAL FIRE ALARM PANEL DETAIL
SCALE: N.T.S.



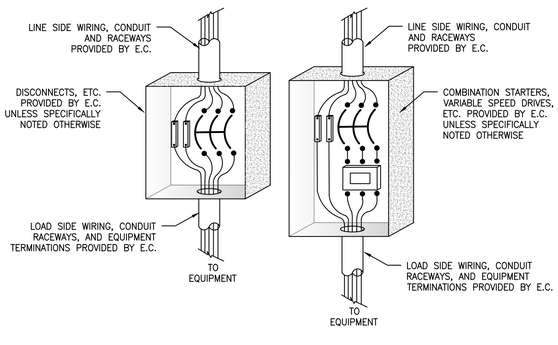
10 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.



11 DRYWELL (FRENCH DRAIN) DETAIL
SCALE: N.T.S.



12 MAKEUP AIR LOUVER DETAIL
SCALE: N.T.S.



13 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.

INTREPID ARCHITECTURE
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D AND

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SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KENANSVILLE, NC 28349

PROJECT MGR. D. HAM
DRAWN BY D. HILL
PROJECT NO. 223009

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
MECHANICAL DETAILS

M2.01

HVAC LEGEND

24x12	RIGID RECTANGULAR DUCT
8"ø	RIGID ROUND DUCT
6"ø	FLEXIBLE DUCT
	90° ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
VD	MANUAL VOLUME DAMPER
M	MOTOR OPERATED DAMPER
	SMOKE DETECTOR WITH ACCESS DOOR
AD 8x8	ACCESS DOOR VERTICAL OR HORIZONTAL
FD	VERTICAL FIRE DAMPER (1.5-HR. RATING)
FD	HORIZONTAL FIRE DAMPER (1.5-HR. RATING)
	BRANCH DUCT WITH 45° TAP
	LAY-IN SUPPLY DIFFUSER
	LAY-IN RETURN/EXHAUST GRILLE
	ROOF CAP, INTAKE
	ROOF CAP, EXHAUST
	PITCHED ROOF JACK, EXHAUST
	POWERED ROOF EXHAUSTER
	CEILING EXHAUST FAN
T3	WALL T-STAT/SENSOR FOR SYSTEM NO. 3
S	WALL SPEED CONTROLLER FOR FAN
B 200	AIR DISTRIBUTION MARK "B", 200 CFM
	EQUIPMENT MARK (SEE SCHEDULES)
	FLOW DIRECTION ARROW
----C----	CONDENSATE PIPING
	REFRIGERANT PIPING
	GATE VALVE
	GAS COCK
	UNION
	REDUCER

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
ECM	ELECTRONICALLY COMMUTATED MICROPROCESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
BOD	BOTTOM OF DUCT
TOD	TOP OF DUCT

MECHANICAL ENERGY SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

NC ENERGY CODE (2018) PRESCRIPTIVE ☒ PERFORMANCE ☐

ASHRAE 90.1 (2016) PRESCRIPTIVE ☐ PERFORMANCE ☐

THERMAL ZONE 4A

EXTERIOR DESIGN CONDITIONS
WINTER DRY BULB 18°F
SUMMER DRY BULB 95°F

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB 72°F
SUMMER DRY BULB 74°F
RELATIVE HUMIDITY 50%

BUILDING HEATING LOAD 280 MBH

BUILDING COOLING LOAD 45 TONS

MECHANICAL CONDITIONING SYSTEM

UNITARY
DESCRIPTION OF UNIT SPLIT SYSTEMS
HEATING EFFICIENCY 7.5 HSPF
COOLING EFFICIENCY 14 SEER
HEAT OUTPUT OF UNIT 647 MBH
COOLING OUTPUT OF UNIT 50 TONS

LIST EQUIPMENT EFFICIENCIES SEE MECHANICAL SCHEDULES

MECHANICAL DUCT INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
RIGID METAL SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	EXPOSED	FIBERGLASS DUCT LINER	–	R-4.0	1"	SUPPLY DUCTS INDICATED AS LINED
RIGID METAL RETURN DUCT	CONDITIONED SPACE	(NONE REQUIRED)				
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL OUTSIDE AIR DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
EXHAUST DUCT	ALL	(NONE REQUIRED)				
SPIRAL SUPPLY DUCT (DOUBLE WALL)	CONDITIONED SPACE	RIGID FIBERGLASS		R-3.8	1"	PROVIDE WITH PERFORATED GALV. STEEL INNER SHELL
FLEXIBLE SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
FLEXIBLE RETURN DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
ACOUSTICAL LINER (NOISE ATTENUATION)	AT EACH UNIT	FIBERGLASS DUCT LINER			1/2"	TERMINATE 10' FROM UNIT OR AFTER 1st ELBOW

MECHANICAL PIPING INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
REFRIGERATION SUCTION PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	UNCONDITIONED SPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	EXTERIOR	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	PROVIDE WITH WHITE UV PROTECTIVE COATING
A/C CONDENSATE PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	–
	VENTILATED ATTIC OR CRAWLSPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	(NONE REQUIRED FOR EXTERIOR)

NOTES: ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

ROOF CAP SCHEDULE

MARK	USAGE	CFM RANGE	SP DROP	SIZE	MATERIAL	REF. MANF.	REF. MODEL	NOTES
RC-1	EXHAUST	0-500	0.12"	10"ø	ALUMINUM	GREENHECK	GRSE-10	1

NOTES:
1. PROVIDE WITH BIRDSCREEN & ROOF CURB FOR STANDING SEAM METAL ROOF.

WALL CAP SCHEDULE

MARK	USAGE	CFM RANGE	SP DROP	SIZE	MATERIAL	REF. MANF.	REF. MODEL	NOTES
WC-1	EXHAUST	0-150	0.02"	8"ø	ALUMINUM	GREENHECK	WC-8	1

NOTES:
1. PROVIDE WITH BIRDSCREEN & BUILT IN DAMPER

ELECTRIC HEATER SCHEDULE

MARK	CFM	EAT(DB)	INPUT CAP.	VOLT/PH	HP	FLA	REF. MANF.	REF. MODEL
UH-1	400	60°	3.3 KW	208/1ø	–	15.9	MARKEL	FIF510N

NOTES:
1. PROVIDE WITH MOUNTING BRACKET AND INTEGRAL THERMOSTAT.

CIRCULATION FAN SCHEDULE

MARK	BLADES			CFM	VOLT/PH	MAXIMUM LOAD	MTG HEIGHT	SOUND dBA	MANF.	MODEL	WEIGHT
	QTY.	DIAMETER	TYPE								
CF-1	5	6'	AF	12,000	120/1ø	1.5 AMPS	11'	39	GREENHECK	DC-5-6	26 LBS

NOTES:
1. PROVIDE WITH THE FOLLOWING:
- DIRECT DRIVE VFD WITH OVER-SPEED AND TEMP DETECTION, FACTORY PROGRAMMED
- FIRE RELAY TO SHUT FAN OFF DURING SPRINKLER FLOW
- CAT-5e CONTROL CABLE TO WALL CONTROLLER
- WALL MOUNTED CONTROLLER FOR EACH FAN (DIRECTION, SPEED, AND FAULT NOTIFICATION)
- EXTRUDED ALUMINUM AIR FOIL BLADES WITH WINGLETS
- FACTORY WIRING
- UNIVERSAL MOUNTING KIT WITH PIVOT BALL TO BE INSTALLED TO FAN-RATED JUNCTION BOX
- HUB RETENTION SYSTEM, AND AIRFOIL RETENTION
- FINISHES SELECTED BY ARCHITECT
- 10-YEAR MECHANICAL WARRANTY

AIR DISTRIBUTION SCHEDULE

MARK	CFM RANGE	TYPE	CLG	SIZE	NECK	THROW	MAX NC	PATTERN	DIRECTION	MAT'L	FINISH	REMARKS
A	0-100	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	6"x6"x6"ø	9'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
B	100-200	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	9"x9"x8"ø	13'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
C	200-400	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x10"ø	18'	20	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
D	400-600	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x12"ø	22'	30	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL
HC	300-400	MIXING VANE LOUVER FACE DIFFUSER	LAY-IN	24"x24"	12"x12"x10ø	12'-15'	20	4-WAY	HORZ	ALUM.	WHITE	HIGH DIFFUSION SHORT THROW
HD	400-500	MIXING VANE LOUVER FACE DIFFUSER	LAY-IN	24"x24"	12"x12"x12ø	12'-15'	20	4-WAY	HORZ	ALUM.	WHITE	HIGH DIFFUSION SHORT THROW
EA	0-100	RETURN PERFORATED FACE	LAY-IN	24"x24"	6"x6"x6"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
EB	100-200	RETURN PERFORATED FACE	LAY-IN	24"x24"	9"x9"x8"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
EC	200-400	RETURN PERFORATED FACE	LAY-IN	24"x24"	12"x12"x10"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
ED	400-600	RETURN PERFORATED FACE	LAY-IN	24"x24"	12"x12"x12"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
EE	600-800	RETURN PERFORATED FACE	LAY-IN	24"x24"	14"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
EF	800-1000	RETURN PERFORATED FACE	LAY-IN	24"x24"	16"ø	–	–	–		ALUM.	WHITE	BLACK BACK PAN
R	0-600	RETURN 1/2" CUBE FACE	LAY-IN	24"x24"	6"ø TO 12"ø	–	–	–		ALUM.	MILL	
FR	0-600	FILTERED RETURN 1/2" CUBE FACE	LAY-IN	24"x24"	6"ø TO 14"ø	–	–	–		ALUM.	WHITE	HINGED FACE WITH KNURLED KNOBS 1" PLEATED FILTER
SL1	200-500	HIGH CAPACITY PLENUM SLOT	LAY-IN	6"x48"	12"ø	–	–	–		ALUM.	WHITE	THREE 1" SLOTS, 180 DEG AIR PATTERN ADJ.
SL2	200-500	HIGH CAPACITY PLENUM SLOT	SURF	6"x48"	12"ø	–	–	–		ALUM.	WHITE	THREE 1" SLOTS, 180 DEG AIR PATTERN ADJ.
SWR1	3500	SIDE WALL RETURN GRILLE	WALL	48"x20"	–	–	32	45 DEG	HORZ	ALUM.	WHITE	FIXED 45 DEG LOUVERS, 3/4" SPACING
SWR2	300-600	SIDE WALL RETURN GRILLE	WALL	16"x8"	12"ø	–	33	45 DEG	HORZ	ALUM.	WHITE	FIXED 45 DEG LOUVERS, 3/4" SPACING
SWS1	600-700	LINEAR BAR GRILLE	WALL	48"x5"	12"ø	28'	25	0 DEG	HORZ	ALUM.	WHITE	1/8" BAR, 1/4" SPACING, 0 DEG DEFLECTION
SWS2	200	SIDE WALL SUPPLY GRILLE	WALL	10"x6"	10"x6"	14'	18	DBL DEFL	HORZ	ALUM.	WHITE	3/4" BLADE SPACING, VERTICAL FACE BARS, OB DAMPER
SWS3	300-600	SIDE WALL SUPPLY GRILLE	WALL	16"x8"	16"x8"	21'	32	DBL DEFL	HORZ	ALUM.	WHITE	3/4" BLADE SPACING, VERTICAL FACE BARS, OB DAMPER

NOTES:
1. VERIFY AIR DISTRIBUTION TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. AIR THROWS BASED ON 50 FPM WITH ISOTHERMAL CONDITIONS. COOLING WILL SHORTEN THROW DISTANCES BY APPROXIMATELY 75% OF VALUE SHOWN. SIDEWALL GRILLS SET AT 45 DEG.

HEAT PUMP (INDOOR UNIT) SCHEDULE

MARK	SUPPLY FAN				REQUIRED COOLING CAPACITY			AUX. HEAT	VOLT/PH	FLA	MCA	MOCP	REF. MANF.	REF. MODEL	WEIGHT
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT CAP	SEN CAP	@ 208V							
AH-1	1050	115	0.5"	1/2	77°/65°	32 MBH	24 MBH	5.8 KW	208/1ø	32	38	40A	TRANE	TEM4A0B36	145 LBS.
AH-2	1000	100	0.5"	1/2	77°/64°	33 MBH	26 MBH	5.8 KW	208/1ø	32	38	40A	TRANE	TEM4A0B36	145 LBS.
AH-3	1400	520	0.5"	1/2	79°/70°	37 MBH	25 MBH	7.2 KW	208/1ø	41	51	60A	TRANE	TEM4A0C48	170 LBS.
AH-4	1400	115	0.5"	3/4	76°/61°	48 MBH	36 MBH	7.2 KW	208/1ø	41	51	60A	TRANE	TEM4A0C48	170 LBS.
AH-5	1230	390	0.5"	1/2	81°/70°	42 MBH	26.7 MBH	5.8 KW	208/1ø	32	40	40A	TRANE	TEM4A0C42	155 LBS.
AH-6	3500	1050	0.5"	2	78°/68°	105 MBH	70 MBH	18.7 KW	208/3ø	60	74	80A	TRANE	TWE12043B	500 LBS.
AH-7	3500	650	0.5"	2	77°/66°	120 MBH	83 MBH	18.7 KW	208/3ø	60	74	80A	TRANE	TWE12043B	500 LBS.
AH-8	910	100	0.5"	1/3	77°/64°	30 MBH	23 MBH	5.8 KW	208/1ø	31	40	40A	TRANE	TEM4A0B30	120 LBS.
AH-9	550	65	0.5"	1/3	77°/64°	18.4 MBH	14.2 MBH	3.6 KW	208/1ø	20	25	25A	TRANE	TEM4A0B18	120 LBS.
AH-10	875	65	0.5"	1/3	76°/62°	29 MBH	23 MBH	5.8 KW	208/1ø	31	40	40A	TRANE	TEM4A0B30	120 LBS.

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - SINGLE POINT WIRING CONNECTION
   - TXV MATCHING CONDENSER CAPACITY
   - 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
   - ECM FAN MOTORS
   - SINGLE ZONE VAV CONTROLS WITH FULLY VARIABLE FAN SPEED & DISCHARGE AIR TEMP SENSOR (AH-6 & 7)
   - DUAL COMPRESSORS (AH-6 & 7)
   - TWO STAGE ELECTRIC HEAT (AH-6 & 7)
   - RUBBER ISOLATORS

HEAT PUMP (OUTDOOR UNIT) SCHEDULE

MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	MOCP	MIN. SEER	HSPF	REF. MANF.	REF. MODEL	WEIGHT
HP-1	95°	3.0 TONS	208/1ø	14	18	30A	14.0 SEER	7.5	TRANE	4TWR4036	230 LBS.
HP-2	95°	3.0 TONS	208/1ø	14	18	30A	14.0 SEER	7.5	TRANE	4TWR4036	230 LBS.
HP-3	95°	4.0 TONS	208/1ø	23	26	40A	14.0 SEER	7.5	TRANE	4TWR4048	300 LBS.
HP-4	95°	4.0 TONS	208/1ø	23	26	40A	14.0 SEER	7.5	TRANE	4TWR4048	300 LBS.
HP-5	95°	3.5 TONS	208/1ø	21	24	40A	14.0 SEER	7.5	TRANE	4TWR4042	280 LBS.
HP-6	95°	10 TONS	208/3ø	37	42	50A	14.1 IEER	7.5	TRANE	TWA12043D	440 LBS.
HP-7	95°	10 TONS	208/3ø	37	42	50A	14.1 IEER	7.5	TRANE	TWA12043D	440 LBS.
HP-8	95°	2.5 TONS	208/1ø	12	15	25A	14.0 SEER	7.5	TRANE	4TWR4030	240 LBS.
HP-9	95°	1.5 TONS	208/1ø	7	15	25A	14.0 SEER	7.5	TRANE	4TWR4018	180 LBS.
HP-10	95°	2.5 TONS	208/1ø	12	15	25A	14.0 SEER	7.5	TRANE	4TWR4030	240 LBS.

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - 5 YEAR COMPRESSOR WARRANTY
   - COMPRESSOR ANTI SHORT CYCLE DELAY
   - CRANKCASE HEATERS
   - HIGH AND LOW PRESSURE SWITCHES
   - OUTDOOR THERMOSTAT
   - LOW AMBIENT COOLING TO 45°
   - SPECIALTIES FOR LONG-LINE APPLICATION AS REQUIRED
   - EXTREME CONDITION MOUNT KIT
2. M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..

DUCTLESS MINI-SPLIT SCHEDULE

INDOOR UNIT

MARK	SUPPLY FAN	REQ'D. COOLING CAPACITY			REQ'D. HTG CAPACITY		VOLT/PH	FLA	MCA	MOCP	REF. MANF.	REF. MODEL	WEIGHT
	SA CFM	EAT(DB)	TOT CAP	SEN CAP	EAT(DB)	TOT CAP							
AH-11	350	78°/69°	16 MBH	12 MBH	70°	5.3 MBH	208/1ø	–	–	–	DAIKEN	FTXR18WVJUS	27 LBS
AC-1	700	78°/64°	17.5 MBH	13 MBH			208/1ø	1	2	15	DAIKEN	FTK18BXVJU	36 LBS
AC-2	700	78°/64°	17.5 MBH	13 MBH			208/1ø	1	2	15	DAIKEN	FTK18BXVJU	36 LBS

DUCTLESS MINI-SPLIT SCHEDULE

OUTDOOR UNIT

MARK	EAT(DB) SUM/WTR	TOT CAP CLG/HTG	VOLT/PH	FLA	MCA	MOCP	MIN. RATING	REF. MANF.	REF. MODEL	WEIGHT
HP-11	95°/24°	18 MBH / 20 MBH	208/1ø	9	11	15	14.5 SEER/10 HSPF	DAIKEN	RX18WMVJU	175 LBS.
CU-1	95°/24°	24 MBH	208/1ø	9	14	20	20 SEER	DAIKEN	RK18BXVJU	110 LBS.
CU-2	95°/24°	24 MBH	208/1ø	9	14	20	20 SEER	DAIKEN	RK18BXVJU	110 LBS.

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES FOR THE INDOOR SECTION:
   - SINGLE POINT WIRING CONNECTION
   - TXV MATCHING CONDENSER CAPACITY
   - WIRED REMOTE CONTROLLER
   - DRAIN PUMP
2. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES FOR THE OUTDOOR SECTION:
   - 5 YEAR COMPRESSOR WARRANTY
   - COMPRESSOR ANTI SHORT CYCLE DELAY
   - CRANKCASE HEATERS
   - HIGH AND LOW PRESSURE SWITCHES
   - LOW AMBIENT CONTROL TO 10°
   - COIL GUARD

PACKAGED ENERGY RECOVERY SYSTEM SCHEDULE

MARK	SUPPLY SIDE					EXHAUST SIDE				VOLT/PH	FLA	MCA	MOCP	REF. MANF.	REF. MODEL	WEIGHT
	CFM	SEASON	EAT (DB/WB)	LAT (DB/WB)	ESP	CFM	EAT (DB/WB)	LAT (DB/WB)	ESP							
HR-1	3400	SUMMER	93°/76°	82°/68°	2.0	2600	74°/61°	90°/73°	2.0	208/3ø	26	27	30	ENERGY WALL	U-ERV-3000	490
		WINTER	20°	49°/37°			70°	26°/21°								

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - MERV 13 FILTERS.
   - AIR TEMP SENSORS, ENTERING AND LEAVING, OUTDOOR AND EXHAUST (4 TOTAL)
   - REMOTE PANEL WITH HOA AND TIME OF DAY START/STOP CAPABILITY
   - 2 SETS OF SPARE FILTERS (2" PLEATED) FOR OUTDOOR AND EXHAUST
   - ECM FAN MOTORS

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	ESP	WATTS	VOLT/PH	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES	CONTROL
EF-1	CEILING	70	0.25"	17	120/1ø	GREENHECK	SP-A90	0.4	12 LBS	1,2	A
EF-2	CEILING	300	0.1"	81	120/1ø	GREENHECK	SP-A290	2.5	24 LBS	2	A
EF-3	CEILING	85	0.75"	125	120/1ø	GREENHECK	SP-B110	3.5	10 LBS	1,2	A

NOTES:
1. PROVIDE WITH WALL CAP AS SHOWN ON PLANS.
2. PROVIDE WITH BACKDRAFT DAMPER.
* SONE LEVELS SHALL NOT EXCEED LEVELS LISTED IN SCHEDULE.
ESP – STATIC PRESSURE EXTERNAL TO THE FAN ASSEMBLY
TSP – TOTAL STATIC PRESSURE INCLUDING FAN ACCESSORIES

CONTROL TYPE DESCRIPTION:
A. INTERLOCK WITH ROOM LIGHTING CONTROL BY EC.
B. SEPARATE WALL MOUNTED FAN SWITCH BY EC.

LOUVER SCHEDULE

MARK	SERVICE	CFM	SIZE	DEPTH	FREE AREA	MATERIAL	REF. MANF.	REF. MODEL	NOTES
L-1	INTAKE	3400	60"Wx60"H	4"D	11 SQ FT	ALUMINUM	GREENHECK	EHH-401	1,2
L-2	EXHAUST	2600	118"Wx24"H	4"D	4.3 SQ FT	ALUMINUM	GREENHECK	ESD-403	1,2,3
L-3	INTAKE	250	20"Wx20"H	4"D	1 SQ FT	ALUMINUM	GREENHECK	EHH-401	1,2

NOTES:
1. PROVIDE WITH BIRD SCREEN, EXTENDED SILL & KYNAR FINISH.
2. SUBMIT LOUVER TYPE & COLOR PALLET TO ARCHITECT FOR COLOR SELECTION.
3. LOUVER IS TRIANGULAR WITH APPROXIMATELY 22 DEGREE SIDES

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PROJECT NO. 223009
PROJECT MGR. D. HAM
DRAWN BY D. HILL

REVISIONS:

#	DESC:	DATE

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PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
MECHANICAL SCHEDULES

M3.01

MECHANICAL NOTES:

1. MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.

2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC.

3. ALL WORK SHALL COMPLY WITH LOCAL, STATE & NATIONAL CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.

4. PROVIDE PRODUCT SUBMITTALS FOR ALL EQUIPMENT INCLUDING EFFICIENCY, PERFORMANCE DATA, DIMENSIONAL DATA, FINISHES, ELECTRICAL REQUIREMENTS ETC. EQUIPMENT SHALL MEET THE PERFORMANCE, QUALITY AND INTENT OF SCHEDULED EQUIPMENT AND INCLUDE ALL OPTIONS AS LISTED IN SCHEDULES.

5. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE OF ANY DEVIATIONS.

6. COORDINATE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH THE ELECTRICAL SUBCONTRACTOR. WHERE ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED DIFFERS FROM THE SCHEDULED EQUIPMENT THAT REQUIRE COST RELATED CHANGES IN THE ELECTRICAL, CONTACT THE ENGINEER.

7. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.

8. POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.

9. CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.

10. UL LISTED DUCT SMOKE DETECTORS & RAIL SWITCHES SHALL BE FURNISHED & WIRED BY THE FIRE ALARM CONTRACTOR AND DUCT SMOKE DETECTORS INSTALLED BY THE M.C.. RAIL SWITCHES SHALL BE REQUIRED WHERE DETECTORS ARE NOT READILY ACCESSIBLE. FIRE ALARM AHU SHUT DOWN CIRCUITS SHALL BE WIRED FROM THE FACP TO A TERMINATION POINT, ADJACENT TO THE FACP BY THE FIRE ALARM CONTRACTOR. AHU CONTROL WIRING FROM THE TERMINATION POINT TO THE EQUIPMENT SHALL BE BY THE M.C.. THE FIRE ALARM CONTRACTOR SHALL TEST ALL SMOKE DETECTORS.

11. UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED & TESTED BY THE M.C.. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATION FOR EACH DUCT SMOKE DETECTOR.

12. TEMPERATURE CONTROLS FOR EACH HEATING–COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING–COOLING THERMOSTAT WITH HEAT–OFF–COOL–AUTO SYSTEM SWITCH & AUTO–ON FAN SWITCH. MOUNT THERMOSTATS 48–INCHES A.F.F.

13. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE CLEARANCE AS RECOMMENDED BY THE MANUFACTURER

14. PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.

15. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND & FLOOR MOUNTED EQUIPMENT. UNLESS NOTED OTHERWISE ALL PADS SHALL BE 4" THICK & 4" LARGER THAN EQUIPMENT ON ALL SIDES. PADS SHALL BE 3000 PSI CONCRETE WITH #4 REBAR 6" ON CENTER BOTH DIRECTIONS.

16. EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEATING AND COOLING AND SHALL NOT BE RUN EXCEPT FOR TESTING AND BALANCING UNTIL THE BUILDING IS DRIED IN, CLEAN AND ALL FINISHING WITHIN THE SPACE IS COMPLETE. OPERATING THE SYSTEM PRIOR TO HAVING A CLEAN BUILDING WILL REQUIRE THE SYSTEMS TO BE CLEANED TO LIKE NEW CONDITION.

17. CONTRACTOR SHALL BALANCE AIR SYSTEM TO QUANTITIES INDICATED ON PLANS AND PROVIDE TYPE WRITTEN REPORT WITH O&M MANUALS. TEST AND BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH SMACNA, NEBB OR AABC STANDARDS. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS.

18. ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. ENTIRE SYSTEMS INCLUDING DUCTWORK THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE ADDITIONAL CLEANING AT THE END OF THE PROJECT.

19. CONTRACTOR SHALL COVER EACH RETURN OPENING LOCATION & EACH AIR HANDLER FILTER RACK WITH MERV 8 PLEATED FILTER MEDIA BEFORE STARTUP OF MECHANICAL SYSTEMS. CONTRACTOR SHALL ALSO INSTALL A NEW SET OF MERV 8 PLEATED FILTERS AT EACH PERMANENT FILTER LOCATION BEFORE TURNING BUILDING OVER TO OWNER.

20. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 503.2.9.2 INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.

21. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

DUCT SYSTEMS:

1. FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 2–INCH WC WITH GALVANIZED METAL (26 GAUGE MINIMUM). ALL RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. ALL SQUARE ELBOWS & TEES SHALL HAVE TURNING VANES. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.

2. FOR INTERIOR LOCATIONS, USE GALVANIZED METAL MINIMUM G–60 (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS FOR MINIMUM OF WC INDICATED ABOVE

3. WHERE RECTANGULAR DUCT IS INDICATED, RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. SQUARE ELBOWS SHALL INCLUDE TURNING VANES. ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR–TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON–GRIP. ROLLED FORM FLANGE TYPE JOINTS WITH GASKETS BOLTED CORNERS AND CLIPS MAY BE USED PROVIDING AN AIR TIGHT SEAL AND RE–INFORCING.

4. WHERE ROUND OR FLAT OVAL DUCT IS INDICATED, DUCT SHALL BE SPIRAL LOCKSEAM WITH EPDM GASKETED FITTINGS. LARGE FLAT OVAL SIZES MAY USE BOLTED AND GASKETED ROLLED FLANGE TYPE JOINTS.

5. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.

6. ROUND RUNOUTS ON RECTANGULAR DUCTS SHALL HAVE SIDE TAKEOFFS WITH GASKET & DAMPER, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTOR AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.

7. FLEX DUCT SHALL BE FACTORY INSULATED, HAVE ACOUSTICAL INNER CORE AND HAVE METALIZED VAPOR BARRIER. SEAL FLEX TO HARD CONNECTIONS WITH MASTIC. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B.

8. RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER. STAPLE AND SEAL ALL JOINTS WITH 3–INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF–683.

9. PROVIDE 1/2–INCH, 1.5 LB. DENSITY ACOUSTICAL LINER AT EACH A/C UNIT SUPPLY AND RETURN CONNECTION FOR SOUND ATTENUATION. TERMINATE LINER AT 10–FT. FROM UNIT, AT FIRST ELBOW OR AS NOTED ON PLANS. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER. DUCT SHALL BE WRAPPED WITH INSULATION IN ADDITION TO ACOUSTICAL LINER.

10. RECTANGULAR DUCT INDICATED AS BEING BE INTERNALLY LINED SHALL USE 1–INCH THICK, 1.5 LB. DENSITY LINER EQUAL TO CERTAINTEED TOUGHGARD. LINER SHALL MEET REQUIREMENTS OF ASTM C 665 AND ASTM G 21 & G 22 FOR RESISTANCE TO FUNGAL AND BACTERIAL ATTACK. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER.

11. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION.

PIPE SYSTEMS:

1. PROVIDE SUBMITTALS FOR ALL PIPING SYSTEMS INCLUDING PIPE, FITTINGS, VALVES, HANGERS, BUILDING ATTACHMENTS, ETC. INCLUDE WELDING CERTIFICATES WHERE PIPE BEING PROVIDED IS WELDED OR WELDED SUPPORTS ARE BEING PROVIDED.

2. ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.

3. CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MANUFACTURER'S. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE WITH FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION.

4. REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION. PROTECT EXTERIOR INSULATION FROM SOLAR DETERIORATION WITH UV COATING.

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PROJECT NO. 223009

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#	DESC:	DATE

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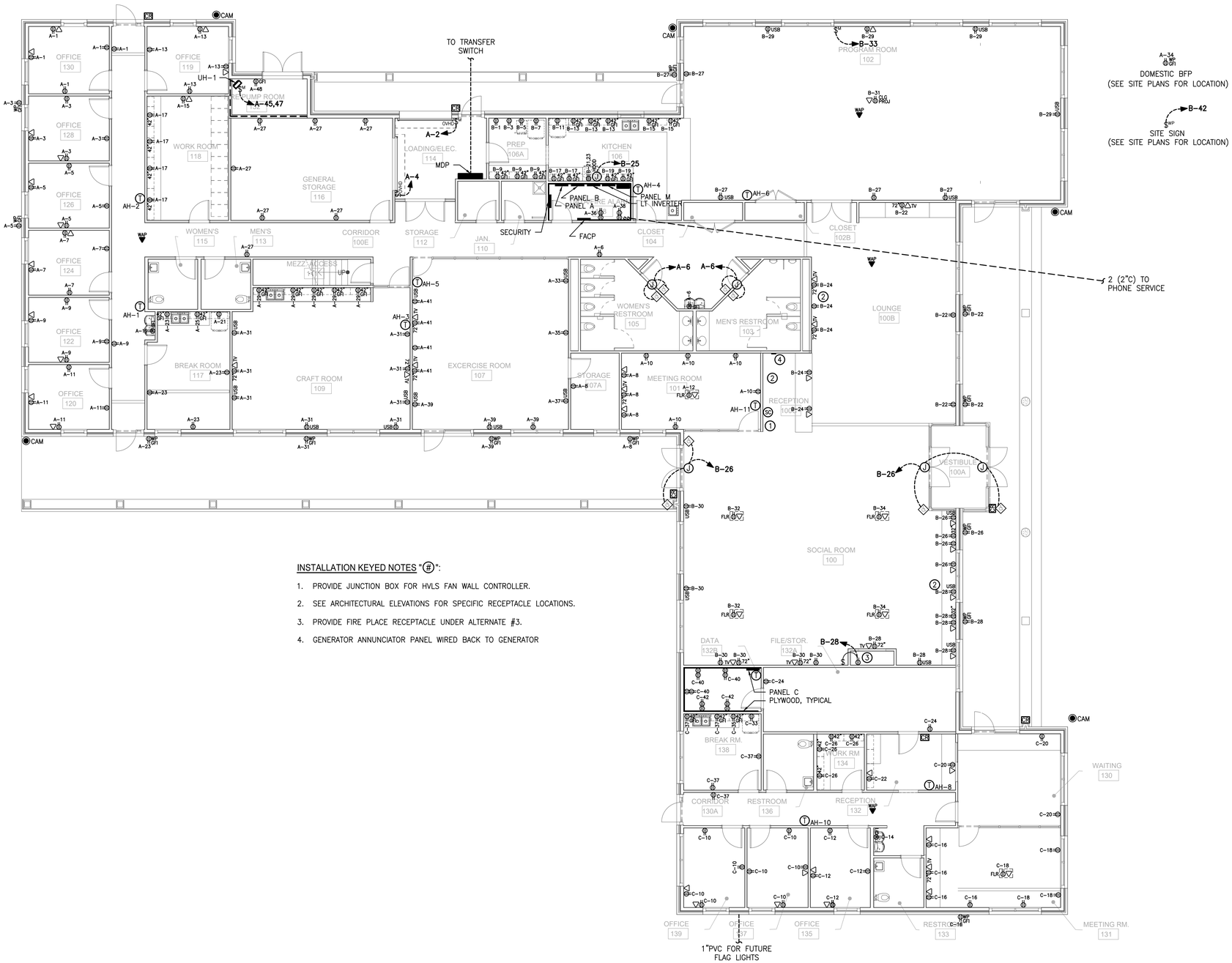
PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

MECHANICAL SCHEDULES

M3.02



INSTALLATION KEYED NOTES "(#)":

1. PROVIDE JUNCTION BOX FOR HVLS FAN WALL CONTROLLER.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIFIC RECEPTACLE LOCATIONS.
3. PROVIDE FIRE PLACE RECEPTACLE UNDER ALTERNATE #3.
4. GENERATOR ANNUNCIATOR PANEL WIRED BACK TO GENERATOR

1 ELECTRICAL POWER & RECEPTACLE PLAN
SCALE: 1/8" = 1'-0"

N

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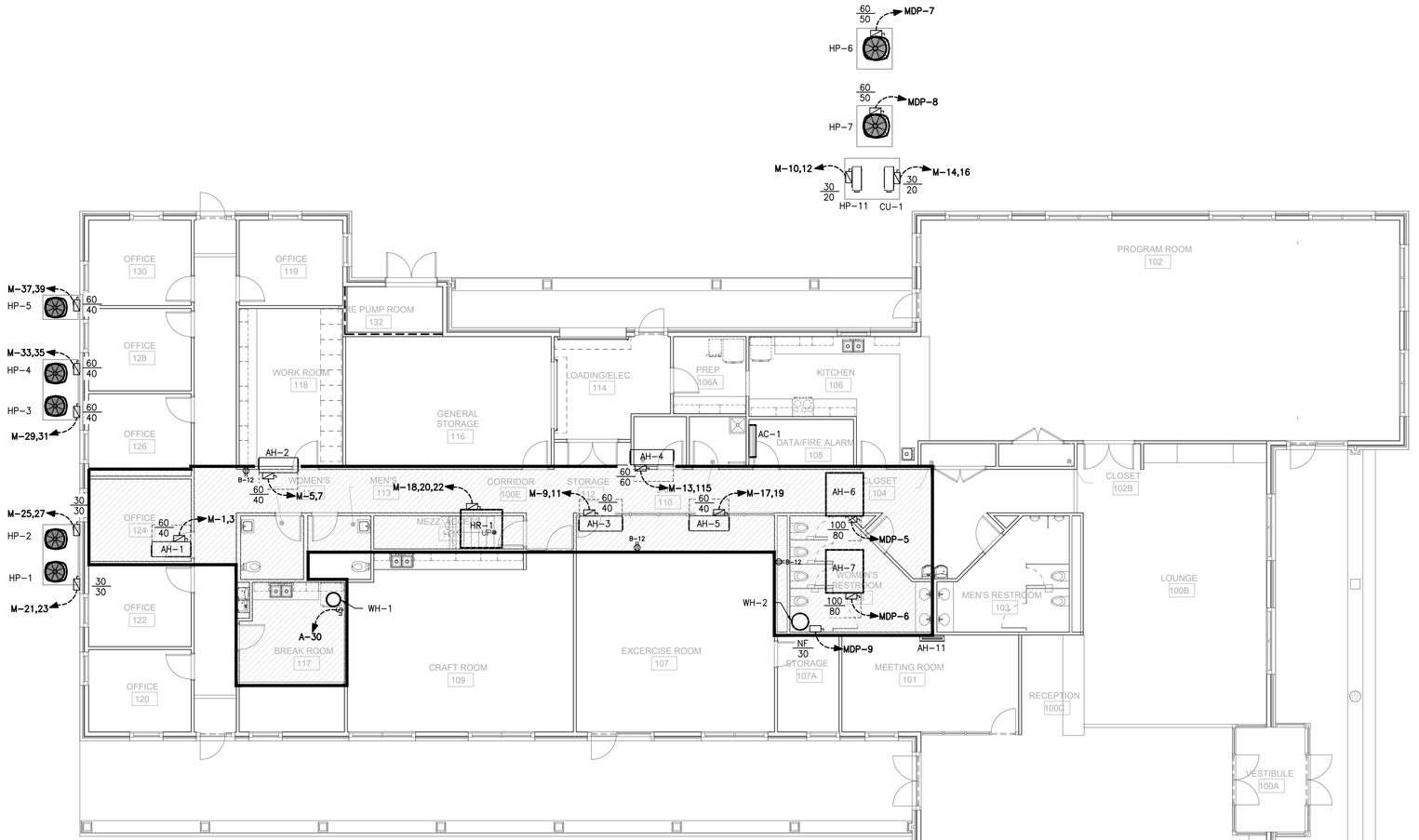
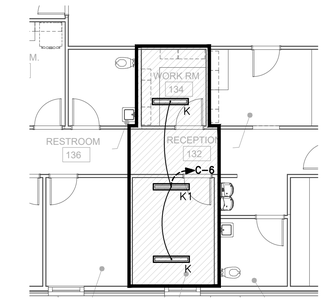
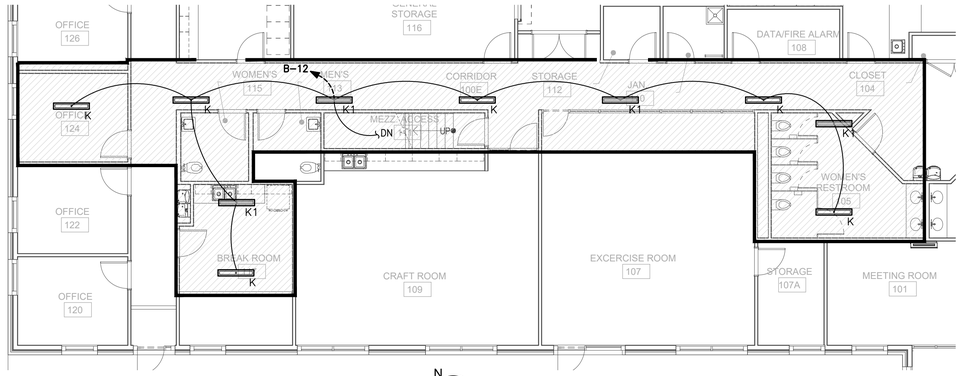
SHEET NAME & NUMBER
ELECTRICAL POWER PLANS

E1.01

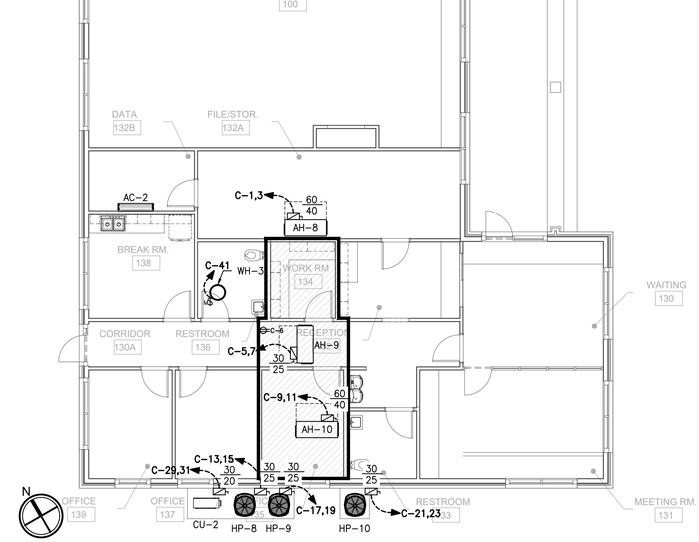


3 ELECTRICAL MEZZANINE LIGHTING PLAN
SCALE: 1/8" = 1'-0"





2 ELECTRICAL MEZZANINE LIGHTING PLAN
SCALE: 1/8" = 1'-0"



1 ELECTRICAL MECHANICAL EQUIPMENT & MEZZANINE POWER PLAN
SCALE: 1/8" = 1'-0"

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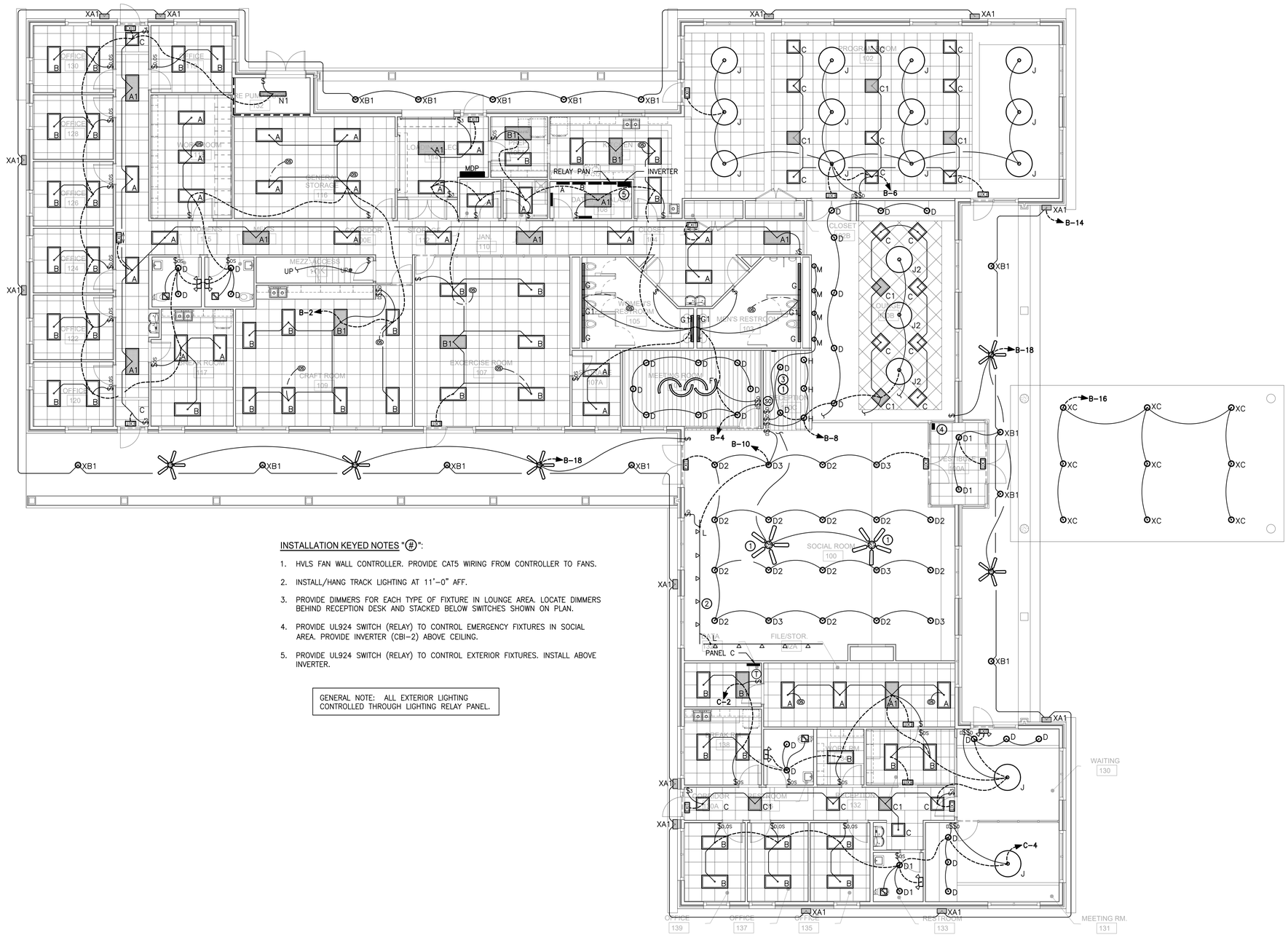
ELECTRICAL POWER MEZZANINE PLANS

E1.02



INSTALLATION KEYED NOTES "(#)":

1. HVLS FAN WALL CONTROLLER. PROVIDE CAT5 WIRING FROM CONTROLLER TO FANS.
2. INSTALL/HANG TRACK LIGHTING AT 11'-0" AFF.
3. PROVIDE DIMMERS FOR EACH TYPE OF FIXTURE IN LOUNGE AREA. LOCATE DIMMERS BEHIND RECEPTION DESK AND STACKED BELOW SWITCHES SHOWN ON PLAN.
4. PROVIDE UL924 SWITCH (RELAY) TO CONTROL EMERGENCY FIXTURES IN SOCIAL AREA. PROVIDE INVERTER (CBI-2) ABOVE CEILING.
5. PROVIDE UL924 SWITCH (RELAY) TO CONTROL EXTERIOR FIXTURES. INSTALL ABOVE INVERTER.

GENERAL NOTE: ALL EXTERIOR LIGHTING CONTROLLED THROUGH LIGHTING RELAY PANEL.

1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 ENGINEER JAMES D. HILL 07/21/23

PROJECT NO. 223009
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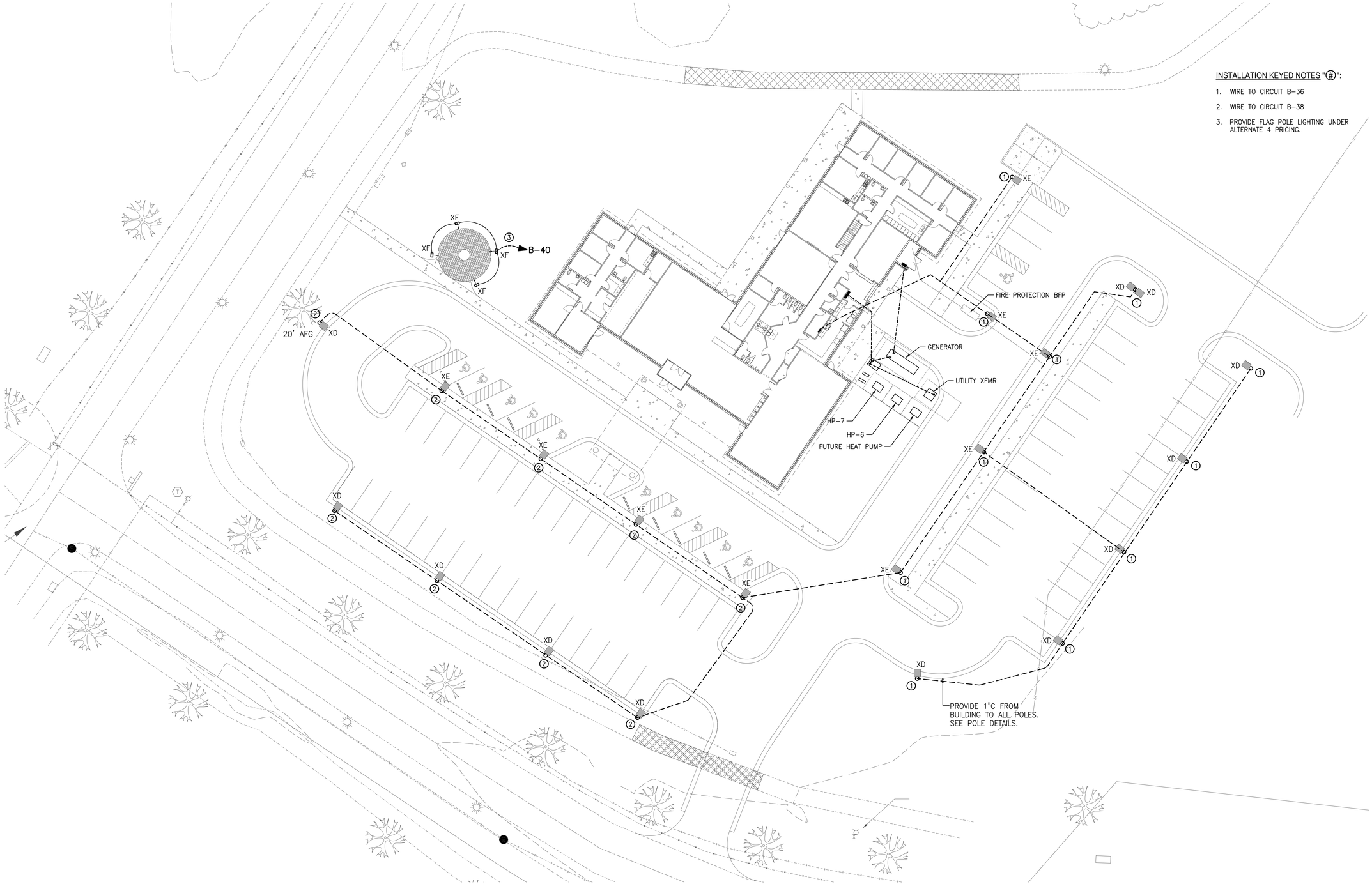
SHEET NAME & NUMBER
ELECTRICAL LIGHTING PLAN

E1.03



1 ELECTRICAL SITE PLAN
SCALE: 1"=20'

N

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ELECTRICAL SITE PLAN

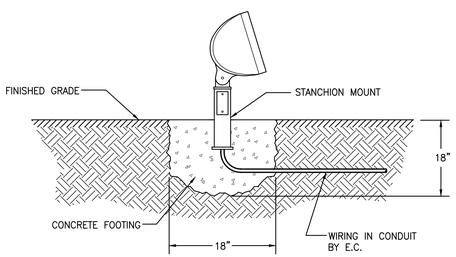
ES1.01

LIGHT FIXTURE SCHEDULE

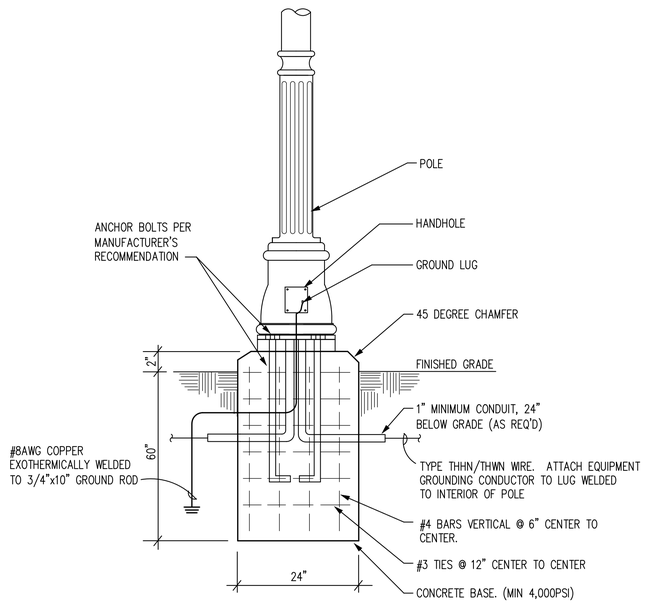
MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	COLOR	MULTI-VOLT INPUT	BATTERY BACK-UP	BATTERY BACK-UP – 1400 LUMENS	STANDARD COLOR SELECTED BY ARCH.	CUSTOM COLOR SELECTED BY ARCH.	REMARKS
XD	ROADWAY TYPE 3	ANP	LA604 3 FR CMP90 T3 40K SP 44	LED	11,400	40K	70	29	120	WHITE	●			●		–
XE	ROADWAY TYPE 5	ANP	LA604 3 FR CMP90 T5 40K SP 44	LED	11,400	40K	70	65	120	WHITE	●			●		–
ARM	TUBE ARM	ANP	PA333-1-N-5-S-44							WHITE				●		–
PA	20' ROUND ALUMINUM POLE	ANP	BD5S20.188 – CCS0702							WHITE				●		–
XF	FLAG POLE LIGHTS	LITHONIA	DSX1 LED P2 40K MSP MVOLT IS DDBXD AFTM	LED	5,200	40K	80	42	120	–				●		

NOTES:

1. PRODUCTS LISTED MATCH OWNERS EXISTING EQUIPMENT THROUGH THE CAMPUS. SUBSTITUTIONS WILL BE REVIEWED BY THE OWNER FOR ACCEPTANCE.
2. CONTRACTOR SHALL SUBMIT LIGHTING PLAN SHEET WITH SCHEDULE TO SUPPLIER FOR FIXTURE SELECTION.



1 GROUND MOUNTED LIGHT DETAIL
SCALE: N.T.S.



NOTES:

1. POLE SHALL BE RATED FOR 110MPH PER ASCE 7-05 "3-SEC PEAK GUST" MAP.
2. POLES SHOWN OUTSIDE PARKING LOT, INSTALL EDGE OF POLE BASE 30" FROM EDGE OF CURB.
3. FOR POLES SUBJECT TO VEHICULAR TRAFFIC, WITHIN PARKING AREAS, OR CLOSER THAN 30" FROM CURB, EXTEND CONCRETE BASE 36" ABOVE GRADE.
4. CONCRETE BASE SHALL HAVE FULL 30 DAY CURE BEFORE INSTALLING POLE.
5. DO NOT GROUT UNDER POLE BASE UNLESS SPECIFIED BY MANUFACTURER.
6. PROVIDE POLE WITH 1ST MODE DAMPENER.
7. GROUND ROD MAY BE INSTALLED IN THE CENTER OF THE CONCRETE BASE. TOP SHALL EXTEND 4" ABOVE TOP OF CONCRETE BASE.
8. PROVIDE 6" THICK FOUNDATION WITH MATERIAL CONSISTING OF CLEAN, 1-INCH MINUS, CRUSHED STONE OR CRUSHED GRAVEL.
9. MINIMUM CONCRETE COVER OVER STEEL REINFORCING BARS SHALL BE 3 INCHES.

2 POLE BASE DETAIL
SCALE: N.T.S.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES D. HAM REGISTERED 07/21/23

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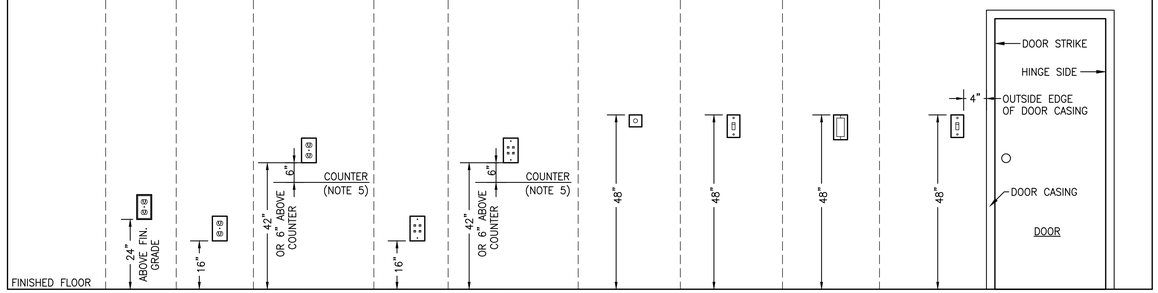
ELECTRICAL SITE DETAILS

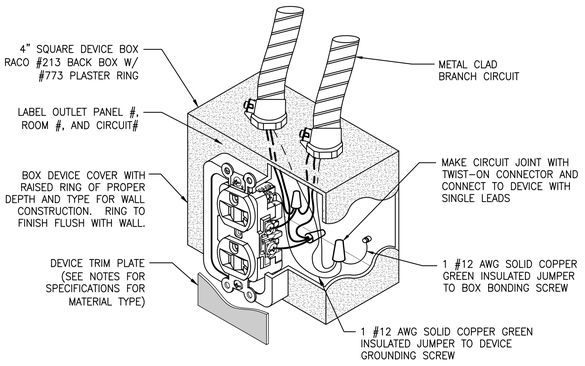
ES2.01

DEVICE DESCRIPTION	EXTERIOR RECEPTACLE	DUPLEX RECEPTACLE	ABOVE COUNTER RECEPTACLE	PHONE/DATA	ABOVE COUNTER PHONE/DATA	ALL OTHER WALL MOUNTED CONTROL DEVICES	EXHAUST FAN WALL SWITCH/SPEED CONTROL	HVAC THERMOSTAT OR SENSOR	LIGHT SWITCH OR OTHER LIGHTING CONTROL DEVICE	LIGHT SWITCHES AND OTHER LIGHTING CONTROL DEVICES SHALL ALWAYS BE LOCATED ON THE STRIKE SIDE OF THE DOORWAY. (VERIFY DOOR SWINGS PRIOR TO ROUGH-IN)
EXAMPLES OF DEVICE SYMBOLS	WP GFI						$ / $_{SC}$	(T) OR (S)	$	

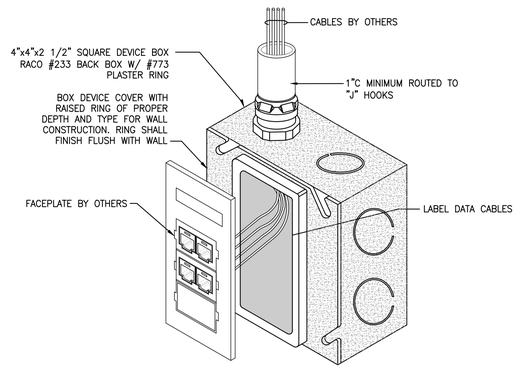


NOTES:
1. **THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.**
2. **ALL DEVICES MAY NOT APPLY TO THIS PROJECT.**
3. **ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.**
4. **REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES.**
5. **VERIFY COUNTER AND BACKSPLASH HEIGHTS PRIOR TO ROUGH-IN.**

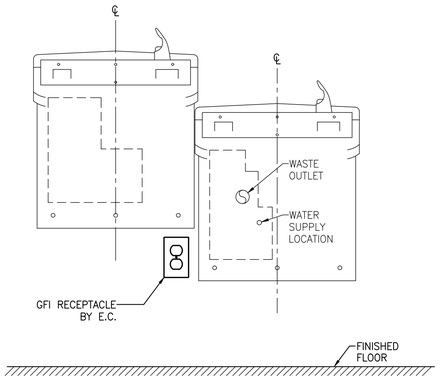
1 DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.



3 RECEPTACLE GROUNDING DIAGRAM
SCALE: N.T.S.

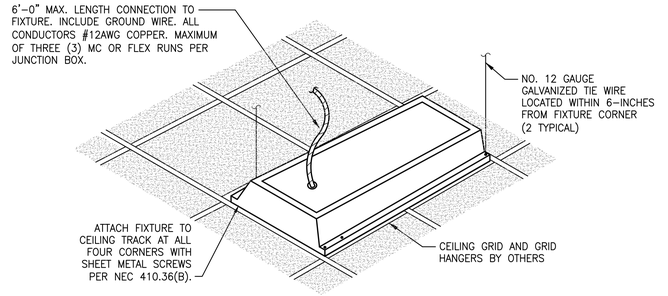


4 QUAD DATA OUTLET
SCALE: N.T.S.



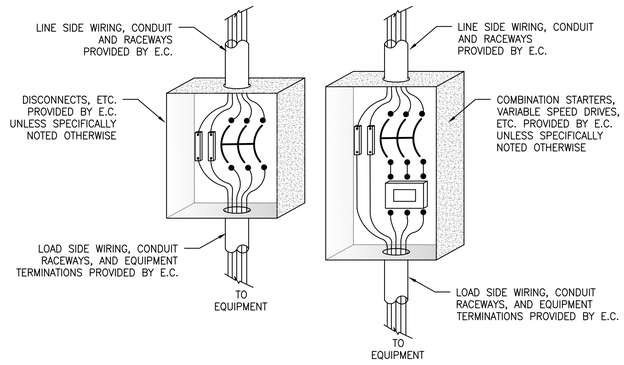
NOTE: COORDINATE SPECIFIC RECEPTACLE MOUNTING LOCATION WITH P.C. PER SHOP DRAWING INSTALLATION INSTRUCTIONS.

5 SPLIT LEVEL ELECTRIC WATER COOLER INSTALLATION
SCALE: N.T.S.

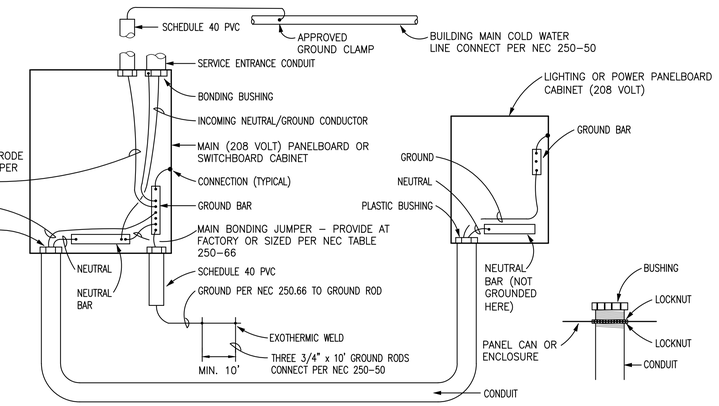


NOTES: 1. SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THE CEILING GRID SUPPORTS.

2 TYPICAL RECESSED FIXTURE SUPPORT
SCALE: N.T.S.



6 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



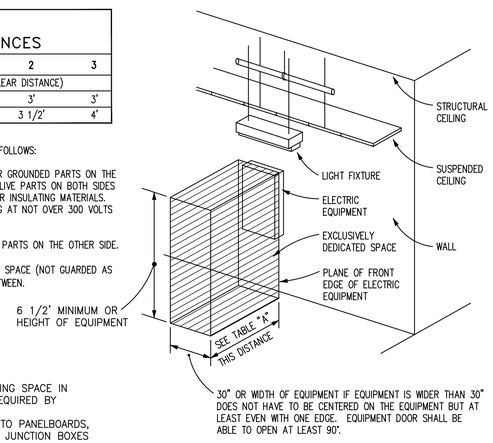
NOTES: 1. GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM COLD WATER LINE AND/OR BUILDING STEEL AND GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.

7 TYPICAL BONDING & GROUNDING DIAGRAM
SCALE: N.T.S.

TABLE "A" WORKING CLEARANCES			
VOLTAGE TO GROUND	CONDITION: 1	2	3
(NOMINAL)	(MINIMUM CLEAR DISTANCE)		
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

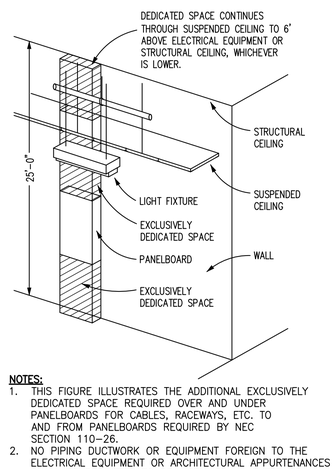
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIFE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



NOTES:
1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.
2. THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.

ALL ELECTRIC EQUIPMENT



NOTES:
1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY NEC SECTION 110-26.
2. NO PIPING DUCTWORK OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN. FOR EXCEPTIONS SEE NEC SECTION 110-26f.

PANELBOARDS

8 DEDICATED WORKING SPACE REQUIREMENTS
SCALE: N.T.S.

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PROJECT MGR. D. HAM
DRAWN BY D. HILL
PROJECT NO. 223009

REVISIONS:

#	DESC:	DATE

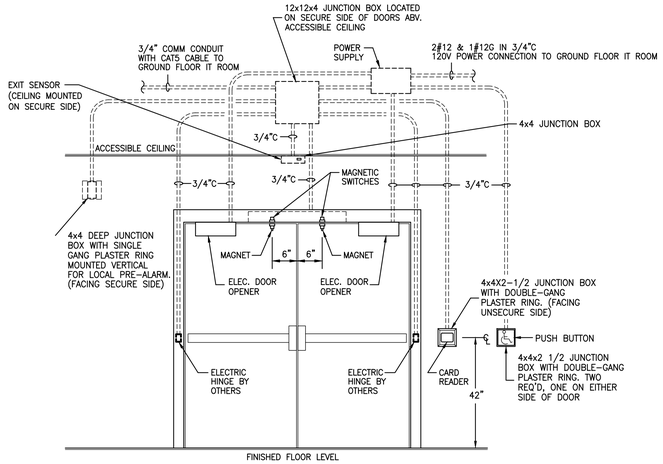
DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ELECTRICAL DETAILS

E2.01

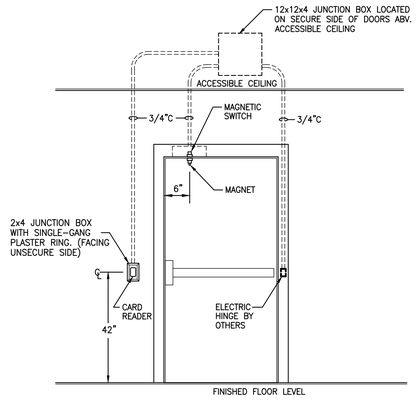
SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KEANANSVILLE, NC 28349



NOTES:

1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES WITH ARCHITECT, AND SECURITY VENDOR.
2. EC SHALL PROVIDE ALL JUNCTION BOXES AND CONDUITS AS SHOWN INCLUDING APPROPRIATE EXTENSION RINGS, COVERS, ETC. EC SHALL INCLUDE PULL STRINGS IN ALL CONDUITS. COORDINATE ACTUAL LOCATION OF ALL DEVICES AND JUNCTION BOX SIZES WITH HARDWARE VENDOR PRIOR TO INSTALLATION. HARDWARE VENDOR SHALL PROVIDE ALL DEVICES AND ALL WIRING OTHER THAN 120 VOLT POWER WIRING.
3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.
4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

1 DOOR DETAIL
SCALE: N.T.S.



NOTES:

1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES WITH ARCHITECT, AND SECURITY VENDOR.
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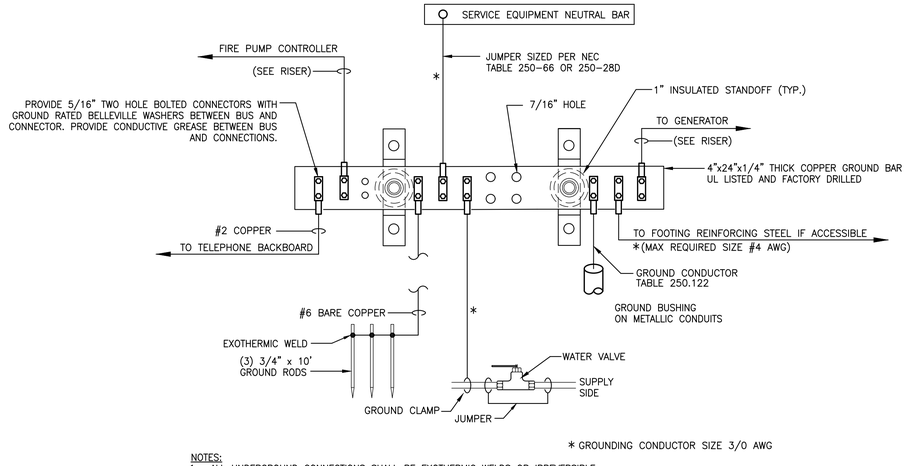
3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.
4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

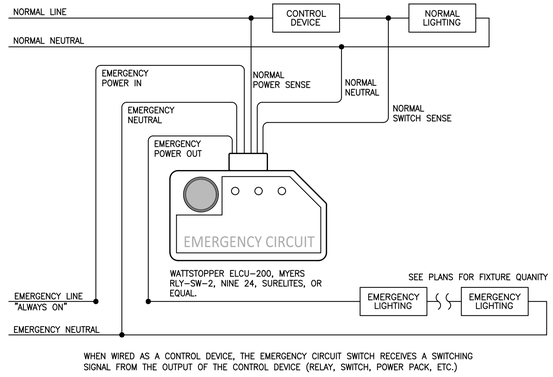
2 DOOR DETAIL
SCALE: N.T.S.



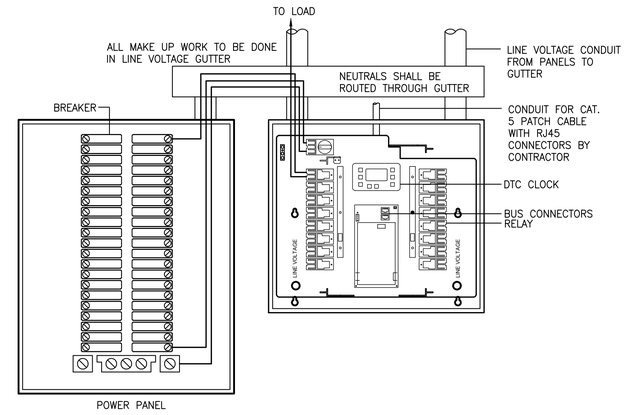
NOTES:

1. ALL UNDERGROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION CONNECTIONS, EXCEPT MECHANICAL CONNECTIONS IN TEST WELLS.
2. LABEL RACEWAYS OR CONDUCTORS AT GROUND BUS WITH PHENOLIC TAGS TO IDENTIFY CONNECTION LOCATION SUCH AS: "GAS PIPING", "GROUND RODS" OR "BUILDING STEEL".

3 SERVICE EQUIPMENT GROUNDING DIAGRAM
SCALE: N.T.S.



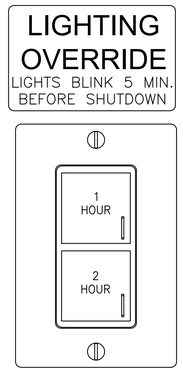
4 EMERGENCY CONTROL DEVICE WIRING
SCALE: N.T.S.



NOTES:

1. PROVIDE CAT5e OR CAT6 TO MATCH PROJECT REQUIREMENTS FROM RELAY PANEL TO IT DATA RACK.
2. PROGRAM ON/OFF TIMES PER OWNER'S INSTRUCTIONS
3. PROGRAM FOR 2 HOUR OVERRIDE FOR ALL INTERIOR LIGHTING UPON INPUT FROM OVERRIDE SWITCHES. SYSTEM SHALL BLINK LIGHTS 5 MINUTES AND 1 MINUTE BEFORE END OF OVERRIDE SCHEDULE.
4. MAIN CONTROL UNIT SHALL HAVE INTERNAL WEB SERVER AND INTERFACE TO ALLOW CONNECTION TO NETWORK.
5. PROVIDE DIGITAL INPUT FROM FIRE ALARM PANEL WHICH TURNS ON ALL ZONES UPON INITIATION FROM FACP.
6. PROVIDE CONSTANT HOT WIRE WHICH BYPASSES THE RELAY FOR EMERGENCY BATTERY POWER. DO NOT WIRE BATTERIES TO SWITCHED OR RELAY CONTROLLED OUTPUT WIRE.
7. **SEE PANEL SCHEDULES FOR REQUIRED LOADS WIRED THROUGH RELAY PANEL.**

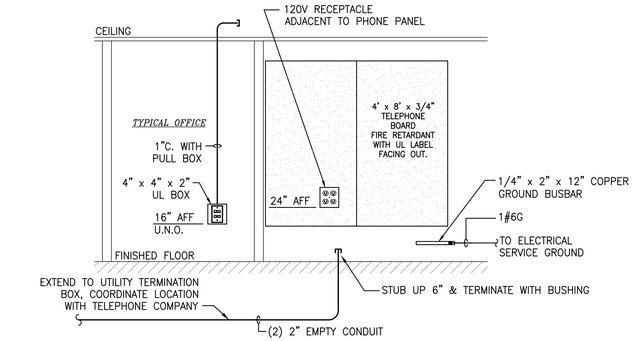
5 LIGHTING & RECEPTACLE CONTROL DETAIL
SCALE: N.T.S.



NOTE:

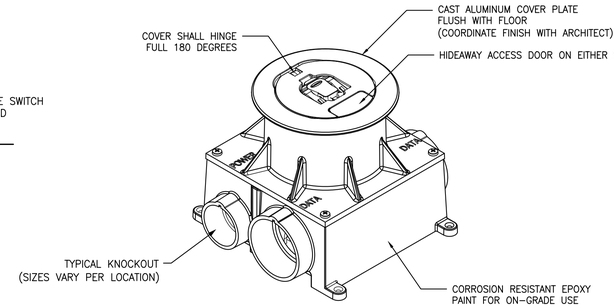
1. PROVIDE 4" WIDE x 3" TALL SIGNAGE ABOVE SWITCH WITH RED LETTERING ON WHITE BACKGROUND

6 2 BUTTON TIMED OVERRIDE SWITCH (S_R)
SCALE: N.T.S.



NOTES: 1. PROVIDE QUANTITY OF PLYWOOD SHEETS TO COVER WALLS AS SHOWN ON PLAN SHEET.
2. IF PROVIDING FIRE RETARDANT PLYWOOD, SHEETING DOES NOT REQUIRE PAINTING. INSTALL SHEETING SUCH THAT FIRE LABEL FACES OUT.

7 TELEPHONE SYSTEM DIAGRAM
SCALE: N.T.S.



NOTES:

1. BOX SHALL BE PROVIDED WITH DIVIDER FOR POWER AND DATA COMPARTMENTS. COORDINATE LID TYPE AND COLOR WITH ARCHITECT.
2. PROVIDE (1) 1"C. FOR DATA AND (1) 2"C. FOR A/V TO ABOVE CEILING. A/V CONDUIT ONLY REQUIRED IN MEETING ROOMS.
3. PROVIDE WITH 2-INCH THREADED CONDUIT HUB.
4. PRODUCT SHALL BE UL LISTED AND COMPLY WITH UL 514A FOR SCRUB WATER REQUIREMENTS.
5. BOX SHALL BE RATED FOR "ON-GRADE" USE

8 MULTISERVICE FLUSH CONCRETE FLOOR BOX
SCALE: N.T.S.

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PROJECT MGR. D. HAM
DRAWN BY D. HILL
PROJECT NO. 223009

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

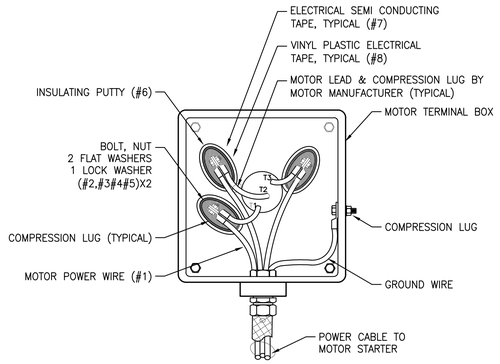
PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ELECTRICAL DETAILS

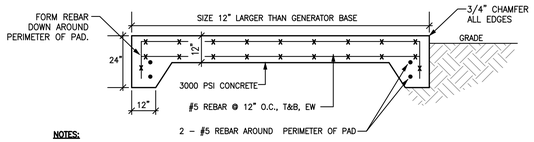
E2.02

ITEM #	QTY	DESCRIPTION
1	4	LUG, COMPRESSION
2	3	BOLT, HEXHD, SILICON BRONZE
3	6	WASHER, SILICON BRONZE
4	3	WASHER, LOCK, SILICON BRONZE
5	3	NUT HEX, SILICON BRONZE
6	A/R	ELECTRICAL INSULATION PUTTY, 3M SCOTCHFIL OR EQUAL
7	A/R	ELECTRICAL SEMI-CONDUCTION TAPE, 3M SCOTCH 13 OR EQUAL
8	A/R	VINAL ELECTRICAL TAPE, 3M SUPER 33+ OR EQUAL

NOTES:
1. ALL ELECTRICAL INSTALLATIONS TO BE IN ACCORDANCE WITH INSPEC CONSTRUCTION SPECIFICATIONS FOR ELECTRICAL WORK.
2. I & E CONTRACTOR IS RESPONSIBLE FOR PURCHASE OF MISC. CONDUIT FITTINGS, SUPPORTS, BOLTING HARDWARE, ETC.
3. EACH PHASE OF ALL POWER CABLES SHALL BE IDENTIFIED BY COLORED PVC TAPE.

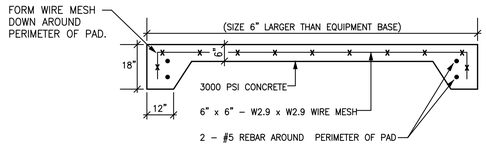


1 MOTOR TERMINAL BOX CONNECTION 600V & BELOW
SCALE: N.T.S.



NOTES:
1. CONFIRM FINAL LOCATION OF POWER AND CONTROL CONDUITS WITH MANUFACTURER DATA PRIOR TO INSTALLATION.
2. MAINTAIN MINIMUM 48" SPACING AROUND GENERATOR ENCLOSURE AREA FOR REFUELING AND FUTURE SERVICE REQUIREMENTS.
3. PROVIDE 4/0 AWG BARE COPPER GROUND RING 24" FROM EDGE OF GENERATOR PAD BURIED 30" BELOW GRADE. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD AT EACH CORNER OF GENERATOR PAD AND EXOTHERMICALLY WELDED TO THE COPPER RING. PROVIDE MINIMUM 36" PIGTAIL THROUGH PAD FOR CONNECTION TO THE GENERATOR FRAME. PROVIDE 4/0 BARE COPPER CONDUCTOR FROM THE COPPER RING TO EITHER THE BUILDING GROUND OR MAIN ELECTRICAL SERVICE GROUND BUS.
4. PROVIDE MINIMUM 2" CONCRETE COVER FOR TOP REBAR AND 3" COVER TO EARTH FOR LOWER LEVEL OF REBAR.
5. IF UNSUITABLE MATERIAL IS ENCOUNTERED, REMOVE ALL UNSUITABLE MATERIAL FROM BELOW THE PROPOSED SLAB AND BASE, AND PLACE COMPACTED STRUCTURAL FILL MATERIAL TO THE BOTTOM OF GRAVEL BASE LAYER. ALTERNATELY, REMOVE ALL UNSUITABLE MATERIAL AND REPLACE WITH COMPACTED GRAVEL

2 GENERATOR CONCRETE PAD INSTALLATION DETAIL
N.T.S.



NOTES:
1. CONFIRM FINAL LOCATION OF POWER AND CONTROL CONDUITS WITH MANUFACTURER DATA PRIOR TO INSTALLATION.
2. MAINTAIN MINIMUM 48" SPACING AROUND GENERATOR ENCLOSURE AREA FOR REFUELING AND FUTURE SERVICE REQUIREMENTS.
3. PROVIDE 4/0 AWG BARE COPPER GROUND RING 24" FROM EDGE OF SWITCH PAD BURIED 30" BELOW GRADE. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD AT EACH CORNER OF PAD AND EXOTHERMICALLY WELDED TO THE COPPER RING. PROVIDE MINIMUM 36" PIGTAIL THROUGH PAD FOR CONNECTION TO THE SWITCH GROUND. PROVIDE 4/0 BARE COPPER CONDUCTOR FROM THE COPPER RING TO EITHER THE BUILDING GROUND OR MAIN ELECTRICAL SERVICE GROUND BUS. TIE THE SWITCH GROUND RING TO THE GENERATOR RING WITH 4/0 AWG BARE COPPER

3 TRANSFER SWITCH CONCRETE PAD INSTALLATION
SCALE: N.T.S.

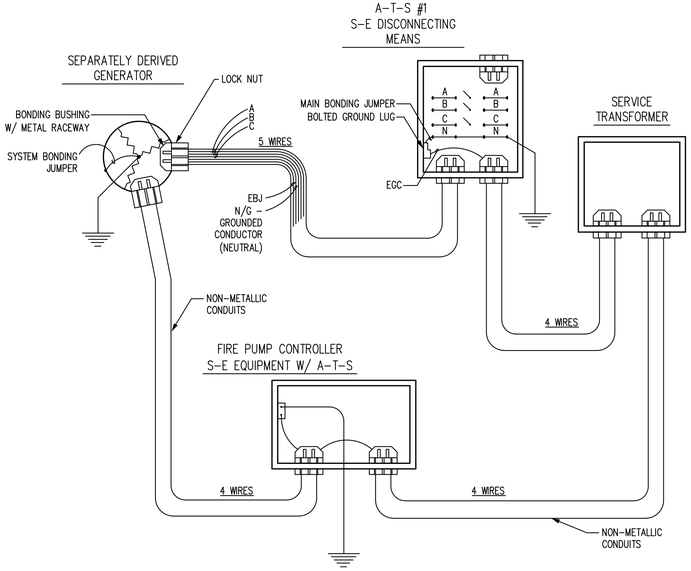
PACKAGE GENERATOR SYSTEM SCHEDULE						
MARK	VOLTS/PH	RUNNING KW RATING	RATING	FUEL TYPE	TANK SIZE	NFPA 110 RATING
MG-1	120/208 3ø	300 KW	STANDBY	DIESEL	18 HOUR	LEVEL 1 - TYPE 10 - CLASS 8

NOTES:

1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - STARTING kW CALCULATED WITH 25% VOLTAGE DROP AT SINGLE STEP CONNECTED FULL LOAD
   - THE AIR TEMP IN THE OUTDOOR ENCLOSURE SHALL NOT BE LESS THAN 40°F WHEN THE EQUIPMENT IS NOT OPERATING (NFPA 110-5.3.5)
   - THE GENERATOR SET SHALL PICK UP A BLOCK LOAD EQUAL TO THE SPECIFIED KW AT 0.8 POWER FACTOR AT RATED SITE CONDITIONS AND RECOVER TO RATED VOLTAGE AND FREQUENCY
   - MIN. 10 AMP BATTERY CHARGER, AUTOMATIC FLOAT CHARGE
   - BATTERY CHARGER WITH 4-STATE CHARGING ALGORITHM
   - CLASS H INSULATION (150 DEG C.)
   - SYNCHRONOUS, FOUR POLE, WITH 2/3 PITCH WINDING.
   - DUAL WALL SUB-BASE FUEL TANK, UL142 LISTED AND LABELED WITH LOW-FUEL SENSOR SET FOR 8 HOURS AND ALARM AT THE REMOTE ANNUNCIATOR PANEL (NFPA 110-5.5.2)
   - MICROPROCESSOR-BASED CONTROL FOR AUTOMATIC STARTING, MONITORING, AND CONTROL FUNCTIONS
   - CONTROL SHALL ALLOW FOR REMOTE MONITORING OVER INTERNET
   - PROVIDE REMOTE ANNUNCIATOR PANEL AT MAIN SOUTH ENTRANCE LOBBY 1ST FLOOR.
   - PROVIDE REMOTE SHUTDOWN BUTTON LOCATED ON EXTERIOR OF BUILDING OR ENCLOSURE,
   - DIGITAL METERING SET, 100% ACCURACY, TO INDICATE RMS VOLTAGE AND CURRENT, FREQUENCY, OUTPUT KW, OUTPUT KVA, AND POWER FACTOR
   - MOUNTED 1000 AMP MAIN LINE CIRCUIT BREAKER, SIZED TO CARRY RATED OUTPUT OF GENERATOR SET.
   - SECONDARY FIRE PUMP CIRCUIT BREAKER IN SEPARATE ENCLOSURE FROM OTHER GENERATOR DISCONNECTING MEANS AND LOCKABLE IN THE CLOSED POSITION PER NEC 695.4(B)(3)(B). LABEL DISCONNECT PER NEC 695.4(B)(3)(C). COORDINATE FIRE PUMP BREAKER WITH PUMP SUBMITTAL. BREAKER SHALL BE SIZED NO GREATER THAN 250% OF MOTOR FULL LOAD AMPS. GENERATOR VOLTAGE SHALL NOT DROP BELOW 15 PERCENT BELOW NORMAL UNDER MOTOR-STARTING CONDITIONS (NFPA 20-9.4.1)
   - OUTDOOR WEATHER-PROTECTIVE AND LEVEL 2 SOUND ATTENUATED ENCLOSURE NOT TO EXCEED 75dB @ 23 FEET FROM ENCLOSURE. PROVIDE CRITICAL GRADE SILENCER.
   - 120 VAC GFCI DUPLEX RECEPTACLE AND INTERIOR LED LIGHTING
   - ISO 8528 RATED
   - 5 YEAR COMPREHENSIVE WARRANTY
   - UL2200 LISTED FOR STATIONARY ENGINE GENERATOR ASSEMBLY

AUTOMATIC TRANSFER SWITCH SCHEDULE							
MARK	TRANSITION TYPE	VOLTS/PH/WIRES	RATING	ENCLOSURE	S.C. WITHSTAND	NO. POLES	S.E. RATED
ATS-1	CLOSED TRANSITION	120/208 3ø 4W	1000A	NEMA 3R	50 kAIC	3	YES

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - MICROPROCESSOR BASED CONTROLLER
   - UL1008 LISTED
   - GENERATOR AND UTILITY UNDER VOLTAGE CONTROL SETPOINT
   - UTILITY RETURN TIMER
   - ENGINE START CONTACT
   - SHORT CIRCUIT RATING BASED ON ANY UPSTREAM BREAKER
   - UL 891 - SUITALBE FOR USE AS SERVICE EQUIPMENT (80% RATED BREAKER)
   - ANSI 61 GRAY POLYESTER SIMI-GLOSS ELECTROSTATIC POWER
   - STAINLESS STEEL, PADLOCKABLE HANDLE
   - BUS SHALL BE SILVER-PLATED COPPER
   - 5 YEAR WARRANTY

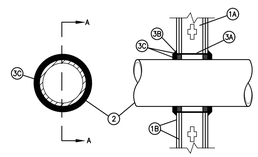


NOTES:
1. GENERATOR NEUTRAL MUST BE BONDED AND GROUNDED
2. GENERATOR SHALL BE PROVIDED WITH CIRCUIT BREAKERS
3. (EBJ) EQUIPMENT BONDING JUMPER PER 250-102C.
4. ⏚ DENOTES GROUNDING ELECTRODE TO THE STEEL FRAME OF THE BLDG. WHERE PROVEN TO BE SUITABLE GROUNDED, THE METALLIC WATER MAIN AND THE GROUND RODS.
5. EQUIPMENT SHALL BE GROUNDED PER 250-32B.
6. THE EMERGENCY S-E DISCONNECT AT THE BUILDING CAN BE ELIMINATED IF THE CIRCUIT BREAKER AT THE GENERATOR MEETS REQUIREMENTS OF NEC 700.12.B.6 AND NEC 225.36 AND THE CIRCUIT BREAKER'S ENCLOSURE IS THIRD PARTY LISTED AS SERVICE ENTRANCE EQUIPMENT.

4 TYPICAL BONDING & GROUNDING DIAGRAM
SCALE: N.T.S.

UL SYSTEM NO. W-L-1003

F RATING - 1 AND 2 HR (SEE ITEM 1)
T RATING - 0 HR



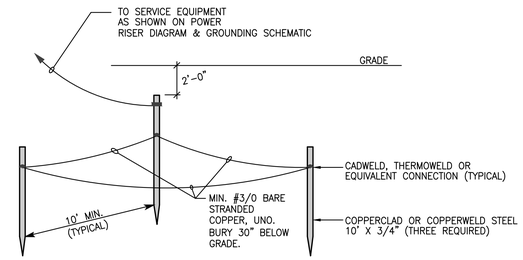
SECTION A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
B. GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 15 IN. (381 MM). THE HOURLY F 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 METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND THE STEEL SLEEVE (ITEM 3A) SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2-3/8 IN. (60 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
A. STEEL PIPE - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
A. STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019 IN. THICK (0.48 MM) GALV SHEET STEEL AND HAVING A MIN 2 IN. (51 MM) LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1 TO 4 IN. (25 TO 102 MM) SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROX 1/2 TO 2 IN. (13 TO 51 MM) BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM BOARD LAYERS.
B. PACKING MATERIAL - MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN 1/2 IN. (13 MM) FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM BOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.
B1. PACKING MATERIAL - (NOT SHOWN) - AS AN ALTERNATE TO ITEM B, NOM 1 IN. (25 MM) THICK POLYETHYLENE BACKER ROD MAY BE USED. THE BACKER ROD IS TO BE RECESSED WITHIN THE STEEL SLEEVE A MIN OF 1 IN. (25 MM) FROM EACH SURFACE OF WALL.
C. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - WHEN MINERAL WOOL BATT INSULATION IS USED, CAULK OR SEALANT APPLIED TO FILL THE STEEL SLEEVE TO A MIN DEPTH OF 1/2 IN. (13 MM) ON BOTH SIDES OF WALL ASSEMBLY. WHEN BACKER ROD IS USED, A MIN THICKNESS OF 1 IN. (25 MM) OF CAULK OR SEALANT IS REQUIRED FLUSH WITH BOTH SIDES OF WALL. A NOM 1/4 IN. (6 MM) DIAM CONTINUOUS BEAD OF CAULK OR SEALANT SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM BOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.
3M COMPANY - CP 25WB+, IC 15WB+ OR FB-3000 WT
*BEARING THE UL CLASSIFICATION MARK

5 UL 1 & 2 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.



6 TYPICAL MADE GROUNDING ELECTRODE
SCALE: N.T.S.

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D AND

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PROJECT NO. 223009 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

SENIOR & VETERAN SERVICES CENTER
Duplin County
DUPLIN COMMONS DR. & FAIRGROUNDS DR.
KENANSVILLE, NC 28349

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES D. JOHNSON 07/21/23

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ELECTRICAL DETAILS

E2.03

SERVICE LOAD SUMMARY					
OCCUPANCY TYPE – BUSINESS & ASSEMBLY			TOTAL BUILDING AREA – 12,370 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING (1.4W/SF)	17.3	TABLE 220.12	100%	TABLE 220.42	17.3
FUTURE INDOOR LIGHTING	4.2	--	100%	--	4.2
OUTDOOR LIGHTING	1.5	--	100%	--	1.5
SIGN LIGHTING	1.2	220.14 F	100%	--	1.2
AIR HANDLER FANS	13.0	ARTICLE 440	100%	--	13.0
AIR HANDLER ELECTRIC HEAT	83.0	422.12	100%	--	83.0
HVAC OUTDOOR UNIT	53.2	ARTICLE 440	100%	--	53.2
DUCTLESS OUTDOOR UNITS	6.8	ARTICLE 440	100%	--	6.8
FUTURE AIR HANDLER UNITS (HEAT & FAN)	26.0	ARTICLE 440	100%	--	26.0
FUTURE HVAC OUTDOOR UNITS	20.0	ARTICLE 440	100%	--	20.0
HEAT RECOVERY UNIT	9.4	ARTICLE 440	100%	--	9.4
WATER HEATERS	7.5	422.13	100%	--	7.5
SUBTOTAL CONTINUOUS LOADS					243.1
				230.42 A 1	x 125%
				CONT. LOAD TOTAL	303.9
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	10.0	220.14 1	100% OF 1st 10 KVA		10.0
RECEPTACLES OVER 10 KVA	18.0	220.14 1	50% ABOVE 10 KVA		9.0
FUTURE RECEPTACLES OVER 10 KVA	7.0	220.14 1	50% ABOVE 10 KVA		3.5
DEDICATED CIRCUITS (HAND DRYERS, ETC)	37.0	--	NONCONTINUOUS LOAD x 50% DEMAND		18.5
MISC. LOADS	2.0	--	NONCONTINUOUS LOAD x 100%		2.0
SUBTOTAL NON-CONUOUS LOADS					43.0
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					346.9
FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS			SERVICE LOAD		
$\frac{500\ KVA\ (X\text{-}FORMER)}{0.208 \times \sqrt{3} \times 2.8\%Z}$ = 49,570 AMPS			$\frac{347\ KVA}{0.208 \times \sqrt{3}}$ = **964** AMPS		

NOTES:
1. VALUES ABOVE INCLUDE FUTURE PHASE OF BUILDING.

CENTRAL BATTERY INVERTERS (EMERGENCY LIGHTING)									
MARK	LOCATION OF LIGHTS	INPUT VOLTS/PH	OUTPUT VOLTS/PH	LOAD TYPE	POWER RATING LED LIGHTING	OUTPUT CIRCUITS	MOUNTING	REF MANUF (IOTA)	REF MODEL #
CBI-1	EXTERIOR LIGHTING	120/1ø	120V/1ø	LED	750W/830VA	3 @ 120V	WALL	IIS 750	IIS 750
CBI-2	SOCIAL ROOM	120/1ø	120V/1ø	LED	300W/270VA	1 @ 120V	WALL	IIS 350	IIS 350

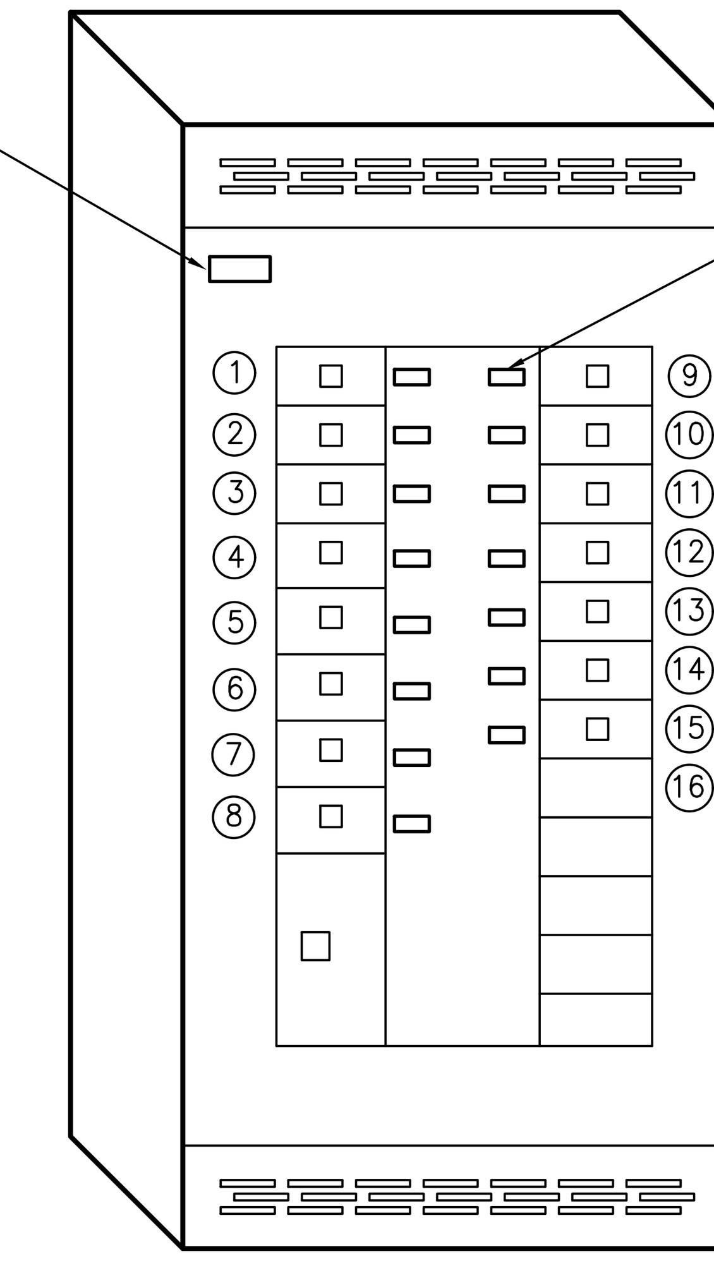
NOTES:
1. INVERTER SHALL BE RATED FOR LED INRUSH CURRENT.
2. UNIT SHALL BE RATED TO OPERATE IN TEMPERATURES FROM 50°F TO 95°F. IT IS ACCEPTABLE TO HAVE OPTIMUM OPERATION BETWEEN 68F TO 86F WITH REDUCED BATTERY PERFORMANCE OUTSIDE OF THIS RANGE.

CENTRAL EMERGENCY LIGHTING INVERTER SPECIFICATIONS:

1. SYSTEM SHALL WORK WITH ANY TYPE OF LIGHTING LOAD, INCLUDING LED, TO PROVIDE UNINTERRUPTED, FULL LIGHT OUTPUT FOR A MINIMUM OF 90 MINUTES.
2. BATTERY CHARGER: SOLID STATE, VARIABLE RATE, TEMPERATURE COMPENSATED; AUTOMATICALLY MAINTAINS BATTERIES IN FULLY CHARGED CONDITION WHEN NORMAL POWER IS AVAILABLE. MAXIMUM BATTERY RECHARGE TIME FROM A FULLY DISCHARGED STATE SHALL BE 24 HOURS.
3. UL LISTED TO UL924 AND SAFELY OPERATE FROM 32 TO 104 DEG FAHRENHEIT. UNIT SHALL CONDUCT REQUIRED MONTHLY AND ANNUAL OPERATIONAL TEST OF THE CONNECTED LOAD.
4. HOUSING SHALL BE DESIGNED FOR SURFACE MOUNT INSTALLATION.
5. WARRANTY – 3 FULL YEAR AND 7 YEARS PRO-RATA ON BATTERIES.

PROVIDE ENGRAVED ACRYLIC LABEL. LABEL TO READ: (SWITCHBOARD NAME) (VOLTAGE AND AMPERAGE)

LABELS SHALL BE 4" HIGH MINIMUM WITH 5/8" LETTERING



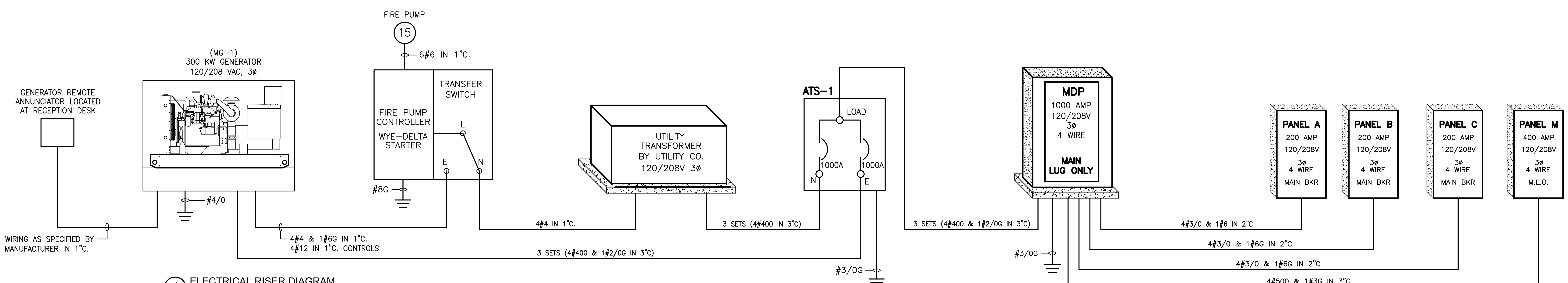
PROVIDE ENGRAVED ACRYLIC LABEL. LABEL TO READ: (PANEL OR LOAD) (VOLTAGE AND AMPERAGE)

LABELS SHALL BE 1 1/2" HIGH MINIMUM WITH 5/8" LETTERING. CENTER TO LEFT, RIGHT OR UNDER BREAKER AS REQUIRED.

SURGE PROTECTION NOTES:
1. SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
   - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449 SPD TYPE 2
   - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 150KA. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVS IN A GIVEN MODE.
   - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 700V NEUTRAL TO GROUND, & 1200V LINE TO LINE.
   - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
   - INOMINAL RATING OF 20KA.

NOTES:
1. PROVIDE MAIN BREAKER WITH ENERGY-REDUCING MAINTENANCE SWITCH

SWITCHBOARD SCHEDULE				
PANEL MDP	SURFACE MOUNTED	*SERVICE ENTRANCE RATED*	1000 AMP (FEEDER SIZE)	3ø, 4 WIRE
MAIN LUG ONLY	BOTTOM FEED	65K AIC	120/208 VOLT	
NEMA 1	COPPER BUS		1200 AMP (BUS RATING)	SURGE PROTECTION
LOCATION	LOAD	BREAKER SIZE	WIRE SIZE	CONDUIT SIZE
1	PANEL "A"	200 AMP – 3 POLE	4#3/0 & 1#6G	2"
2	PANEL "B"	200 AMP – 3 POLE	4#3/0 & 1#6G	2"
3	PANEL "C"	200 AMP – 3 POLE	4#3/0 & 1#6G	2"
4	PANEL "M"	400 AMP – 3 POLE	4#500 & 1#3G	3"
5	AH-6	80 AMP – 3 POLE	3#4 & 1#8G	1"
6	AH-7	80 AMP – 3 POLE	3#4 & 1#8G	1"
7	HP-6	50 AMP – 3 POLE	3#8 & 1#10G	3/4"
8	HP-7	50 AMP – 3 POLE	3#8 & 1#10G	3/4"
9	WH-2	30 AMP – 2 POLE	2#10 & 1#10G	3/4"
10	FUTURE PANEL	200 AMP – 3 POLE	–	–
11	FUTURE PANEL	200 AMP – 3 POLE	–	–
12	–	–	–	–



1 ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

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DRAWN BY D. HILL

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DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ELECTRICAL SCHEDULES

E3.01

PANELBOARD SCHEDULE

PANEL A	SURFACE MOUNTED						22K AIC						200 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED												120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS												200 AMP (BUS RATING)						—	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
OFFICE 130 REC	2#12 & 1#12G	3/4"	7			1	20			20	2	10			3/4"	2#12 & 1#12G	OVRHD DOOR	
OFFICE 128 REC	2#12 & 1#12G	3/4"		7		3		20		20	4		10		3/4"	2#12 & 1#12G	OVRHD DOOR	
OFFICE 126 REC	2#12 & 1#12G	3/4"			6	5	20			20	6			10	3/4"	2#12 & 1#12G	WATER COOLER	
OFFICE 124 REC	2#12 & 1#12G	3/4"	6			7		20		20	8	8			3/4"	2#12 & 1#12G	MEETING RM REC	
OFFICE 122 REC	2#12 & 1#12G	3/4"		7		9	20			20	10		8		3/4"	2#12 & 1#12G	MEETING RM REC	
OFFICE 120 REC	2#12 & 1#12G	3/4"			6	11		20		20	12			3	3/4"	2#12 & 1#12G	MEETING RM REC	
OFFICE 119 REC	2#12 & 1#12G	3/4"	6			13	20			20	14	–			–	–	SPARE	
COPIER	2#12 & 1#12G	3/4"		8		15		20		20	16		–		–	–	SPARE	
WORK RM 118 REC	2#12 & 1#12G	3/4"			6	17	20			20	18			–	–	–	SPARE	
WATER COOLER	2#12 & 1#12G	3/4"	8			19		20		20	20	–			–	–	SPARE	
1. REFRIGERATOR	2#12 & 1#12G	3/4"		4		21	20			20	22		–		–	–	SPARE	
BRK RM RECEP	2#12 & 1#12G	3/4"			5	23		20		20	24			–	–	–	SPARE	
MICROWAVE	2#12 & 1#12G	3/4"	12			25	20			20	26	–			–	–	SPARE	
GEN STORAGE REC	2#12 & 1#12G	3/4"		9		27		20		20	28		–		–	–	SPARE	
CRAFT RM REC	2#12 & 1#12G	3/4"			6	29	20			20	30			13	3/4"	2#12 & 1#12G	WH–1	
CRAFT RM REC	2#12 & 1#12G	3/4"	12			31		20		20	32	12			1"	2#12 & 1#12G	FIRE PROT BFP	2.
EXERCISE RM REC	2#12 & 1#12G	3/4"		12		33	20			20	34		12		1"	2#12 & 1#12G	DOMESTIC BFP	2.
EXERCISE RM REC	2#12 & 1#12G	3/4"			12	35		20		20	36			3	3/4"	2#12 & 1#12G	SECURITY PANEL	
EXERCISE RM REC	2#12 & 1#12G	3/4"	12			37	20			20	38	5			3/4"	2#12 & 1#12G	IT ROOM	
EXERCISE RM REC	2#12 & 1#12G	3/4"		6		39		20		20	40		3		3/4"	2#12 & 1#12G	PHONE BOARD	
EXERCISE RM REC	2#12 & 1#12G	3/4"			6	41	20			20	42			3	3/4"	2#12 & 1#12G	FACP	4.
SPARE	–	–	–			43		20		20	44	–			–	–	SPARE	
UH–1	2#12 & 1#12G	3/4"			16	45	20			20	46		–		–	–	SPARE	
						47		20		20	48			2	3/4"	2#12 & 1#12G	FIRE PUMP RM RECP	
FIRE JOCKEY PUMP	3#12 & 1#12G	3/4"	8			49	20			20	50	2			1"	2#12 & 1#12G	GEN BATTERY	
				8		51		20		20	52		14		1"	2#12 & 1#12G	GEN HEATER	
					8	53	20			20	54			14				

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489
2. PROVIDE 30mA GFPE BREAKER FOR EQUIPMENT PROTECTION
3. WIRE THROUGH RELAY CONTROL PANEL
4. PROVIDE WITH LOCKING BREAKER & IDENTIFY WITH A RED MARKING PER NFPA 72–10.6.5.2 (2013).

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
RECEPTACLES (1ST 10 KVA)	= 9.4	100%	= 9.4
RECEPTACLES (ABV 10 KVA)	= —	50%	= —
WATER HEATERS	= 1.5	100%	= 1.5
DEDICATED RECP/EQUIP	= 21.3	100%	= 21.3
TOTALS:	= 32 KVA		= 32 KVA

MINIMUM PANEL SIZE: 32 KVA X 125% = 40 KVA (112 AMPS)

GROSS PHASE TOTALS (AMPS) A = 108 B = 124 C = 119

PANELBOARD SCHEDULE

PANEL B	SURFACE MOUNTED						22K AIC						200 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED												120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS												200 AMP (BUS RATING)						—	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
FOOD WARMER	2#12 & 1#12G	3/4"	10			1	20			20	2	10			3/4"	2#12 & 1#12G	LIGHTING	
FOOD WARMER	2#12 & 1#12G	3/4"		10		3		20		20	4		8		3/4"	2#12 & 1#12G	LIGHTING	
1. ICE MACHINE	2#12 & 1#12G	3/4"			5	5	20			20	6			12	3/4"	2#12 & 1#12G	LIGHTING	
1. REFRIGERATOR	2#12 & 1#12G	3/4"	5			7		20		20	8	10			3/4"	2#12 & 1#12G	LIGHTING	
PREP REC	2#12 & 1#12G	3/4"		5		9	20			20	10		12		3/4"	2#12 & 1#12G	LIGHTING	
1. REFRIGERATOR	2#12 & 1#12G	3/4"			5	11		20		20	12			4	3/4"	2#12 & 1#12G	MEZZANINE LTG	
KITCHEN REC	2#12 & 1#12G	3/4"	6			13	20			20	14	3			3/4"	2#12 & 1#12G	EXT LIGHTING	3.
KITCHEN REC	2#12 & 1#12G	3/4"		6		15		20		20	16		3		3/4"	2#12 & 1#12G	EXT LIGHTING	3.
KITCHEN REC	2#12 & 1#12G	3/4"			6	17	20			20	18			–	3/4"	2#12 & 1#12G	OUTDOOR FANS	3.
KITCHEN REC	2#12 & 1#12G	3/4"	6			19		20		20	20	–			–	–	SPARE	
STOVE	2#8 & 1#10G	3/4"			38	21	20			20	22		8		3/4"	2#12 & 1#12G	LOUNGE REC	
					38	23		20		20	24			8	3/4"	2#12 & 1#12G	RECEPTION REC	
HOOD	2#12 & 1#12G	3/4"	3			25	20			20	26	11			3/4"	2#12 & 1#12G	SOCIAL RM REC	
PROG RM REC	2#12 & 1#12G	3/4"		8		27		20		20	28		12		3/4"	2#12 & 1#12G	FIRE PLACE	
PROG RM REC	2#12 & 1#12G	3/4"			7	29	20			20	30			10	3/4"	2#12 & 1#12G	SOCIAL RM REC	
CLG PROJECTOR	2#12 & 1#12G	3/4"	6			31		20		20	32	5			3/4"	2#12 & 1#12G	SOCIAL RM REC	
SCREEN	2#12 & 1#12G	3/4"		3		33	20			20	34		5		3/4"	2#12 & 1#12G	SOCIAL RM REC	
SPARE	–	–			–	35		20		20	36			8	1"	2#10 & 1#10G	SITE LIGHTING	3.
SPARE	–	–	–			37	20			20	38	8			1"	2#10 & 1#10G	SITE LIGHTING	3.
SPARE	–	–		–		39		20		20	40		3		1"	2#12 & 1#12G	FLAG LIGHTS	3.
SPARE	–	–			–	41	20			20	42			12	1"	2#12 & 1#12G	SITE SIGN	3.

COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489
2. PROVIDE 30mA GFPE BREAKER FOR EQUIPMENT PROTECTION
3. WIRE THROUGH RELAY CONTROL PANEL

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 6.7	100%	= 6.7
EXTERIOR LIGHTING	= 3.7	100%	= 3.7
RECEPTACLES (1ST 10 KVA)	= 10	100%	= 10
RECEPTACLES (ABV 10 KVA)	= 2.2	50%	= 1.1
KITCHEN EQUIPMENT **	= —	—%	= —
DEDICATED RECP/EQUIP	= 13.3	100%	= 13.3
TOTALS:	= 36 KVA		= 35 KVA

MINIMUM PANEL SIZE: 35 KVA X 125% = 44 KVA (122 AMPS)

GROSS PHASE TOTALS (AMPS) A = 77 B = 114 C = 115

** — % DIVERSITY FOR — PCS OF EQUIPMENT

PANELBOARD SCHEDULE

PANEL C	SURFACE MOUNTED						22K AIC						200 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED												120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS												200 AMP (BUS RATING)						—	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
AH–8	2#8 & 1#10G	3/4"	31			1	40			20	2	9			3/4"	2#12 & 1#12G	LIGHTS	
				31		3		25		20	4		5		3/4"	2#12 & 1#12G	LIGHTS	
AH–9	2#10 & 1#10G	3/4"			20	5	20			20	6			–	–	–	SPARE	
			20			7		40		20	8	–			–	–	SPARE	
AH–10	2#8 & 1#10G	3/4"		31		9	40			20	10		12		3/4"	2#12 & 1#12G	OFF 137/139 REC	
					31	11		25		20	12			6	3/4"	2#12 & 1#12G	OFFICE 135 REC	
HP–8	2#12 & 1#10G	3/4"	12			13	20			20	14	8			3/4"	2#12 & 1#12G	WATER COOLER	
				12		15		25		20	16		8		3/4"	2#12 & 1#12G	MEETING RM REC	
HP–9	2#12 & 1#10G	3/4"			7	17	20			20	18			6	3/4"	2#12 & 1#12G	MEETING RM REC	
			7			19		25		20	20	6			3/4"	2#12 & 1#12G	RECEP/WATING REC	
HP–10	2#12 & 1#10G	3/4"		12		21	20			20	22		6		3/4"	2#12 & 1#12G	WORK RM REC	
					12	23		15		20	24			3	3/4"	2#12 & 1#12G	STORAGE	
AC–2	2#12 & 1#12G	3/4"	1			25	20			20	26	–			–	–	SPARE	
				1		27		20		20	28		–		–	–	SPARE	
CU–2	2#12 & 1#12G	3/4"			9	29	20			20	30			–	–	–	SPARE	
			9			31		20		20	32	–			–	–	SPARE	
REFRIGERATOR	2#12 & 1#12G	3/4"		6		33	20			20	34		–		–	–	SPARE	
MICROWAVE	2#12 & 1#12G	3/4"			12	35		20		20	36			–	–	–	SPARE	
BRK RM REC	2#12 & 1#12G	3/4"	6			37	20			20	38	–			–	–	SPARE	
SPARE	–	–		–		39		20		20	40		3		3/4"	2#12 & 1#12G	IT ROOM	
WH–3	2#12 & 1#12G	3/4"			13	41	20			20	42			3	3/4"	2#12 & 1#12G	IT ROOM	

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 1.2	100%	= 1.2
RECEPTACLES (1ST 10 KVA)	= 6.8	100%	= 6.8
RECEPTACLES (ABV 10 KVA)	= —	50%	= —
HVAC	= 25.4	100%	= 25.4
HVAC (NON–COINCIDENTAL)	= —	0%	= —
WATER HEATERS	= 1.5	100%	= 1.5
DEDICATED RECP/EQUIP	= 3.3	100%	= 3.3
TOTALS:	= 38 KVA		= 38 KVA

MINIMUM PANEL SIZE: 38 KVA X 125% = 48 KVA (133 AMPS)

GROSS PHASE TOTALS (AMPS) A = 109 B = 116 C = 122

PANELBOARD SCHEDULE

PANEL M	SURFACE MOUNTED						22K AIC						400 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN LUG ONLY	BOTTOM FEED												120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS												400 AMP (BUS RATING)						—	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
AH–1	2#8 & 1#10G	3/4"	32			1	40			15	2	1			3/4"	2#12 & 1#12G	AH–11	
				32		3		40		15	4		1					
AH–2	2#8 & 1#10G	3/4"	32			7					6			1	3/4"	2#12 & 1#12G	AC–1	
											8	1						
AH–3	2#8 & 1#10G	3/4"		32		9	40			20	10		15		3/4"	2#12 & 1#12G	HP–11	
					32	11		60		20	12			15				
AH–4	2#8 & 1#10G	3/4"	41			13					14	9			3/4"	2#12 & 1#12G	CU–1	
				41		15	40			30	16		9					
AH–5	2#8 & 1#10G	3/4"			32	17					18			26				
			32			19	30				20	26			3/4"	3#10 & 1#10G	HR–1	
HP–1	2#12 & 1#10G	3/4"		14		21					22		26					
					14	23	30				24			–				
HP–2	2#12 & 1#10G	3/4"	14			25					26	–			–	–	–	
				14		27	40				28	–			–	–	–	
HP–3	2#10 & 1#10G	3/4"			23	29					30		–		–	–	–	
			23			31	40				32	–			–	–	–	
HP–4	2#10 & 1#10G	3/4"		23		33					34		–		–	–	–	
					23	35	40				36			–	–	–	–	
HP–5	2#10 & 1#10G	3/4"	21			37					38	–			–	–	–	
				21		39	40				40		–		–	–	–	
—	—	—			–	41					42			–	–	–	–	

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
HVAC	= 69	100%	= 69
HVAC (NON–COINCIDENTAL)	= —	0%	= —
DEDICATED RECP/EQUIP	= —	—%	= —
TOTALS:	= 69 KVA		= 69 KVA

MINIMUM PANEL SIZE: 69 KVA X 125% = 86 KVA (240 AMPS)

GROSS PHASE TOTALS (AMPS) A = 232 B = 228 C = 198

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PROJECT MGR. D. HAM
DRAWN BY D. HILL
PROJECT NO. 223009

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO

PROJECT #: 22015

ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ELECTRICAL SCHEDULES

E3.02

ELECTRICAL NOTES:

1. ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.

2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.

3. ALL WORK SHALL COMPLY WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.

4. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.

5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. COORDINATE LOCATION AND WIRING OF DEVICES WITH OTHER TRADES OR SUPPLIERS SUCH AS: ELEVATOR, FIRE PUMP AND FIRE PROTECTION PLANS, KITCHEN HOOD, KITCHEN COOLER, ETC. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WIRING OF SPECIALTY ITEMS UNLESS NOTED OTHERWISE.

6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.

7. **WIRING OF TWO OR MORE EMERGENCY CIRCUITS SUPPLIED FROM THE SAME SOURCE SHALL BE PERMITTED IN THE SAME RACEWAY, CABLE, BOX, OR CABINET. WIRING FROM AN EMERGENCY SOURCE DISTRIBUTION OVERCURRENT PROTECTION TO EMERGENCY LOADS SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT, UNLESS OTHERWISE PERMITTED IN NEC 700.10(B) (1) THROUGH (5). ALL BOXES, ENCLOSURES AND EQUIPMENT FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM. EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM. ALL BOXES AND ENCLOSURES FOR EMERGENCY CIRCUITS SHALL BE MARKED. ALL EXPOSED RACEWAYS SHALL BE MARKED EVERY 25 FEET. WIRING FOR TWO OR MORE EMERGENCY CIRCUITS FROM THE SAME EMERGENCY POWER SOURCE ARE PERMITTED IN THE SAME RACEWAY, CABLE, BOX OR CABINET. WIRING FROM TWO DIFFERENT EMERGENCY SOURCES OR FROM NORMAL POWER CANNOT BE MIXED IN RACEWAYS, CABLES, BOXES OR CABINETS. THIS ENSURES THAT EMERGENCY POWER IS ISOLATED FROM OTHER CIRCUITS AND NOT AFFECTED BY A SHORT OR A MALFUNCTION FROM ANOTHER SOURCE. EMERGENCY CIRCUIT WIRING AND IDENTIFICATION PER NEC 700.10.**

8. ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.

9. PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310.15(B)(16) 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. #10 AWG SHALL BE USED FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 100 FEET. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120 VOLT CIRCUIT EXCEEDS 50 FEET, THE CONDUCTOR TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG.

10. COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

208/120V	PHASE A	BLACK
	PHASE B	RED
	PHASE C	BLUE
	NEUTRAL	WHITE
	EQ. GROUND	GREEN

11. PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W X 0.375"H OR PANDUIT EQUAL, WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING WITH PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER.

12. PROVIDE MC CABLE FOR ALL SINGLE PHASE BRANCH CIRCUITS CONCEALED ABOVE CEILING OR INSIDE WALL 30 AMPS AND SMALLER. MC CABLE SHALL BE SUPPORTED AT INTERNALS NO GREATER THAN 6 FEET AND SECURED WITHIN 12 INCHES OF EVERY BOX, FITTING OR CABLE TERMINATION. PROVIDE MINIMUM 3/4" CONDUIT FOR ALL OTHER WIRING. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, EXTERIOR LOCATIONS, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIQUID TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. EXPOSED CONDUIT IN FINISHED ROOMS SHALL BE MOUNTED ADJACENT TO WALL SURFACE. FEEDER CONDUITS SHALL BE INSTALLED WITH LIMITED EXPOSURE. STAND-OFF TYPE SUPPORTS ARE NOT ALLOWED. PROVIDE COOPER "DURA-BLOCK" SUPPORTS FOR CONDUITS INSTALLED OUTDOORS AND ROUTED ACROSS ROOF OR CONCRETE. SEAL SERVICE RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND SYSTEM PER NEC 230.8 AND 300.5(G). ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRING.

13. **ALL WIRING IN AREAS CLASSIFIED AS ASSEMBLY OCCUPANCIES SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 518.**

14. **FIRE PUMP SUPPLY CONDUITS ON LOAD SIDE OF DISCONNECT OR UTILITY TRANSFORMER ROUTED THROUGH THE BUILDING TO THE FIRE PUMP CONTROLLER SHALL BE ENCASED IN A MINIMUM 2 IN. OF CONCRETE. ALL WIRING FROM THE CONTROLLERS TO THE PUMP MOTORS SHALL BE IN RGS, IMC, EMT, OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT. ELECTRICAL CONNECTIONS AT MOTOR TERMINAL BOXES SHALL BE MADE WITH A LISTED MEANS OF CONNECTION.**

15. PROVIDE ONE-INCH EMPTY CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. ALL CABLING IS PROVIDED BY OTHERS.

16. PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.

17. PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE COPPER NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE (ALUMINUM IS NOT ALLOWED). GROUND ALL SERVICE ENTRANCE PANELS AND RACEWAYS (BONDING BUSHINGS) IN ACCORDANCE WITH THE NEC. PROVIDE BOLT-IN BREAKERS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF THREE SPARE 3/4" CONDUITS TO ABOVE CEILING FOR ALL FLUSH MOUNTED PANELBOARDS. PANELS SHALL BE FULLY RATED FOR SHORT CIRCUIT CURRENT, SERIES RATINGS ARE NOT ALLOWED.

18. PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, SWITCHBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16,

19. PROVIDE A MINIMUM OF THREE (3) GROUND RODS. GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD.

20. PROVIDE HEAVY DUTY FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.

21. PROVIDE HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED TO MATCH MOTOR RATINGS.

22. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS.

23. PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9, EXIT SIGNS SHALL BE LOCATED AT A VERTICAL DISTANCE OF NOT MORE THAN 6 FT 8 IN. ABOVE THE TOP EDGE OF THE EGRESS OPENING AND A HORIZONTAL DISTANCE OF NOT MORE THAN THE REQUIRED WIDTH OF THE EGRESS OPENING. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).

24. OCCUPANCY SENSORS IN RESTROOMS, CORRIDORS AND OPEN OFFICE AREAS SHALL BE ULTRASONIC ONLY. NO SENSOR SHALL BE INSTALLED MORE THAN 12 FEET A.F.F., UNLESS NOTED OTHERWISE OR ALLOWED BY MANUFACTURER'S RECOMMENDATIONS.

25. RECEPTACLES SHALL BE 20 AMP, 120V UNLESS NOTED OTHERWISE.

26. RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT-INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION.

27. RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER-RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION. PROVIDE WITH "IN USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).

28. **THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLETS. COORDINATE WITH OWNER FOR SIGN-OFF OF JUNCTION BOX ROUGH-IN FOR RECEPTACLES AND DATA OUTLETS. SHEETROCK SHALL NOT BE INSTALLED BEFORE OWNER SIGN-OFF IS COMPLETED.**

29. **OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.**

30. WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.

31. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.

32. MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA, INSTALLED ON OPPOSITE SIDES OF THE WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR PROTECTED WITH LISTED PUTTY PADS. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8". THE USE OF LISTED ELECTRICAL BOXES WHICH HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS.

33. PROVIDE 4" HIGH REINFORCED CONCRETE EQUIPMENT PADS WITH CHAMFERED EDGES FOR ALL FREE STANDING ELECTRICAL EQUIPMENT LOCATED ON FLOORS OR SLABS. PROVIDE ALL NECESSARY ANCHOR BOLTS, CHANNEL IRON SILLS, ETC. PADS SHALL BE REINFORCED WITH 6X6 W1.4/W1.4 WELDED WIRE MESH.

34. ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.

35. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

LIGHT FIXTURE SCHEDULE

EnTech ENGINEERING

MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	LAMP-NON LED TYPE	LAMP-NON LED NO.	LAMP-NON LED WATTS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	MULTI-VOLT INPUT	DIMMING TO 10%	STEP LEVEL DIMMING	BATTERY BACK-UP	BATTERY BACK-UP - 1400 LUMENS	DAMP LOCATION LISTED	WET LOCATION LISTED	STANDARD COLOR SELECTED BY ARCH.	CUSTOM COLOR SELECTED BY ARCH.	REMARKS
A	2x4 LED LENSED TROFFER	LITHONIA	2GTL 4' 40L GZ10 LP840	LED	4000	–	–	–	40K	80	30	120	●	●								–
A1	2x4 LED LENSED TROFFER (EMERGENCY)	LITHONIA	2GTL 4' 40L GZ10 LP840 EL14L	LED	4000	–	–	–	40K	80	30	120	●	●			●					
B	2x4 LED LENSED TROFFER	LITHONIA	2GTL 4' 48L GZ10 LP840	LED	4800	–	–	–	40K	80	36	120	●	●								
B1	2x4 LED LENSED TROFFER (EMERGENCY)	LITHONIA	2GTL 4' 48L GZ10 LP840 EL14L	LED	4800	–	–	–	40K	80	36	120	●	●			●					
C	2x2 LED LENSED TROFFER	LITHONIA	2GTL 2' 40L GZ10 LP840	LED	4000	–	–	–	40K	80	28	120	●	●								
C1	2x2 LED LENSED TROFFER (EMERGENCY)	LITHONIA	2GTL 2' 40L GZ10 LP840 EL14L	LED	4000	–	–	–	40K	80	28	120	●	●								
D	6" RECESSED DOWNLIGHT	LITHONIA	LDN6 40/15 L06 AR LSS MVOLT GZ10	LED	1500	–	–	–	40K	80	18	120	●	●								
D1	6" RECESSED DOWNLIGHT (EMERGENCY)	LITHONIA	LDN6 40/15 L06 AR LSS MVOLT GZ10	LED	5000	–	–	–	40K	80	58	120	●	●								WIRED THROUGH INTERIOR EM INVERTER
D2	6" RECESSED DOWNLIGHT	LITHONIA	LDN6 40/50 L06 AR LSS MVOLT GZ10	LED	5000	–	–	–	40K	80	58	120	●	●								
D3	6" RECESSED DOWNLIGHT (EMERGENCY)	LITHONIA	LDN6 40/50 L06 AR LSS MVOLT GZ10	LED	1500	–	–	–	40K	80	18	120	●	●								WIRED THROUGH INTERIOR EM INVERTER
F	LED SUSPENDED LINEAR	FINELITE	HP-4-D-F-96-120-SC-FE	LED	2000	–	–	–	40K	80	100	120	●	●							●	
G	4' COVE FIXTURE	LITHONIA	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI SPD	LED	3000	–	–	–	40K	80	22	120	●	●								
G1	4' COVE FIXTURE (EMERGENCY)	LITHONIA	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI E10WLCP SPD	LED	3000	–	–	–	40K	80	22	120	●	●			●					
G2	2' COVE FIXTURE	LITHONIA	CLX L24 2000LM SEF FDL MVOLT GZ10 40K 80CRI SPD	LED	2000	–	–	–	40K	80	16	120	●	●								
H	DECORATIVE PENDANT BRASS RING	Yii	MODERN STYLE 1 LIGHT BRASS RING – CIRCLE – SIZE SMALL	LED	–	–	–	–	–	–	40	120	●	●							●	
J	4'ø PENDANT	DECO	ROND-LED 4 135 40 UNV W Cxx DM	LED	17145	–	–	–	40K	80	135	120	●	●							●	
J2	4'ø PENDANT LOUNGE	BROWNLEE	2612-48-H63-CC3-40K-DTR	LED	7429	–	–	–	40K	80	63	120	●	●							●	
K	LED STRIPLIGHT	LITHONIA	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI SPD ZACVH M100	LED	5000	–	–	–	40K	80	37	120	●	●								
K1	LED STRIPLIGHT (EMERGENCY)	LITHONIA	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI E10WLCP SPD ZACVH M100	LED	5000	–	–	–	40K	80	37	120	●	●			●					
L	TRACK LIGHTS	JUNO	R6 10L 40K 90CRI PDIM NFL	LED	1900	–	–	–	40K	90	21	120	●	●						●		PROVIDE 1 CIRCUIT TACK WITH CABLE SUSPENSION KIT FOR HARD CLGS (144" CA)
M	3" LED DOWNLIGHT	LITHONIA	LDN3 40/10 L03 AR LSS MVOLT UGZ10 NCH	LED	1000	–	–	–	40K	80	10	120	●	●								
N1	LED ENCLOSED STRIP (EMERGENCY)	LITHONIA	FEM L48 6000LM IMAFD MD MVOLT 40K 80CRI E10WMCP	LED	6000	–	–	–	40K	80	38	120	●	●			●					
	OUTDOOR FAN/LIGHT		SELECTED BY OWNER																			
EXIT	EXIT LIGHT	LITHONIA	LQM S R 120/277 EL N	LED	–	–	–	–	–	–	4	120				●						
EXIT	EXIT/EMER. LIGHT	LITHONIA	LHQM LED R	LED	–	–	–	–	–	–	6	120				●						
	EMERGENCY LIGHT	LITHONIA	ELM618 N	LED	–	–	–	–	–	–	5	120				●						
XA	EXTERIOR WALL PACK	LITHONIA	WDGE2LED P2 40K 80CRI T3M MVOLT	LED	2000	–	–	–	40K	–	19	120	●						●			
XA1	EXTERIOR WALL PACK (EMERGENCY)	LITHONIA	WDGE2LED P2 40K 80CRI T3M MVOLT E20WC	LED	2000	–	–	–	40K	–	19	120	●			●			●			WIRED THROUGH INTERIOR EM INVERTER
XB	EXTERIOR 6" DOWNLIGHT	LITHONIA	LDN6 40/15 L06 AR LSS MVOLT GZ10	LED	1500	–	–	–	40K	–	18	120	●					●				
XB1	EXTERIOR DOWNLIGHT (EMERGENCY)	LITHONIA	LDN6 40/15 L06 AR LSS MVOLT GZ10	LED	1500	–	–	–	40K	–	18	120	●					●				WIRED THROUGH INTERIOR EM INVERTER
XC	EXTERIOR 6" DOWNLIGHT	LITHONIA	LDN6 40/30 L06 AR LSS MVOLT GZ10	LED	3000	–	–	–	40K	–	34	120	●					●				

NOTES:
1. PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE-FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS AND NICKEL CADMIUM BATTERY BACKUP.
2. BATTERIES INSTALLED OUTDOORS SHALL BE RATED -4°F TO 130°F.
3. BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES PER NC FIRE CODE SECTION 1006.3 & 1011.5.3. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
4. PRODUCTS LISTED ARE DESIGN BASIS. EQUAL SUBSTITUTION SUBMITTALS WILL BE EVALUATED.

ELECTRICAL ENERGY SUMMARY ELECTRICAL SYSTEMS AND EQUIPMENT:

EnTech ENGINEERING

METHOD OF COMPLIANCE:

NC ENERGY CODE 2018: ☒ PRESCRIPTIVE ☐ PERFORMANCE

ASHRAE 90.1 2016: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF LAMPS IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
BALLAST TYPE USED IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF BALLASTS IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL WATTAGE PER FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL INTERIOR WATTAGE SPEC. VS ALLOWED	9,587 WATTS SPEC. VS 11,909 WATTS ALLOWED

☒ **WHOLE BLDG** ☐ **SPACE BY SPACE**

TOTAL EXTERIOR WATTAGE SPEC. VS ALLOWED 628 WATTS SPEC. VS. 1,470 WATTS ALLOWED

ZONE: 3 ALLOWANCE: 750 WATTS

ADDITIONAL PRESCRIPTIVE COMPLIANCE (WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- ☒ C406.2.2 REDUCED LIGHTING POWER DENSITY
- ☐ C406.2.3 ENHANCED LIGHTING CONTROLS
- ☐ C406.2.4 ON-SITE SUPPLY OF RENEWABLE ENERGY
- ☐ C406.2.5 PROVISION OF A DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.2.6 HIGH-EFFICIENCY SERVICE WATER HEATING

ELECTRICAL LEGEND

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SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
J	JUNCTION BOX	–	DOUBLE GANG UNO
T S	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
SC	SPEED CONTROL FOR CEILING FANS	–	MOUNT 48" TOD AFF UNO
	NON-FUSED DISCONNECT	–	–
	FUSED DISCONNECT	–	–
OS DT	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY	WATTSTOPPER DT-305	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
OS US	CEILING OCCUPANCY SENSOR	WATTSTOPPER WT-1105 OR 2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
$ OS	WALL SWITCH WITH OCCUPANCY SENSOR	WATTSTOPPER PW-100LA, OR EQUAL	–
$	SWITCH	HUBBELL CSB120x	–
$ D	DIMMER SWITCH	–	COORDINATE WITH DRIVER
$ 3	3 WAY SWITCH	HUBBELL CS320xLA	–
$ 4	4 WAY SWITCH	HUBBELL CS420xLA	–
$ SC	SPEED CONTROL SWITCH	–	PROVIDED BY M.C., INSTALLED BY E.C.
$ M	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
	EMERGENCY LIGHT	–	–
NL	EMERGENCY/NIGHT LIGHT	–	–
	RECEPTACLE	HUBBELL HBL5352x	–
DED	DEDICATED CIRCUIT RECEPTACLE	HUBBELL HBL5352x	–
GFI	GROUND FAULT RECEPTACLE	HUBBELL GFRST20X	SELF TESTING PER UL 943
WP GFI	GROUND FAULT, WEATHERPROOF RECEPT.	HUBBELL GFTWRST20x W/"IN USE" COVER	SELF TESTING PER UL 943
CLG	CEILING RECEPTACLE	–	–
USB	RECEPTACLE WITH USB PORTS	HUBBELL USB20AC5L	USB TYPE "A" AND "C" PORTS
S	SPECIAL RECEPTACLE	–	–
	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352xLA	–
XX-YY	XX=PANEL YY=CIRCUIT IDENTIFIER	–	–
▽	DATA/PHONE OUTLET	–	DOUBLE GANG UNO
▼ WAP	WIRELESS ACCESS POINT ANTENNA	–	REF LOCATION FOR OWNER E.C. NO WORK
CR	CARD READER	–	–
CAM	CAMERA	–	–

NOTES:
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	℄	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

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PROJECT NO. 223009 PROJECT MGR. D. HAM DRAWN BY D. HILL

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO

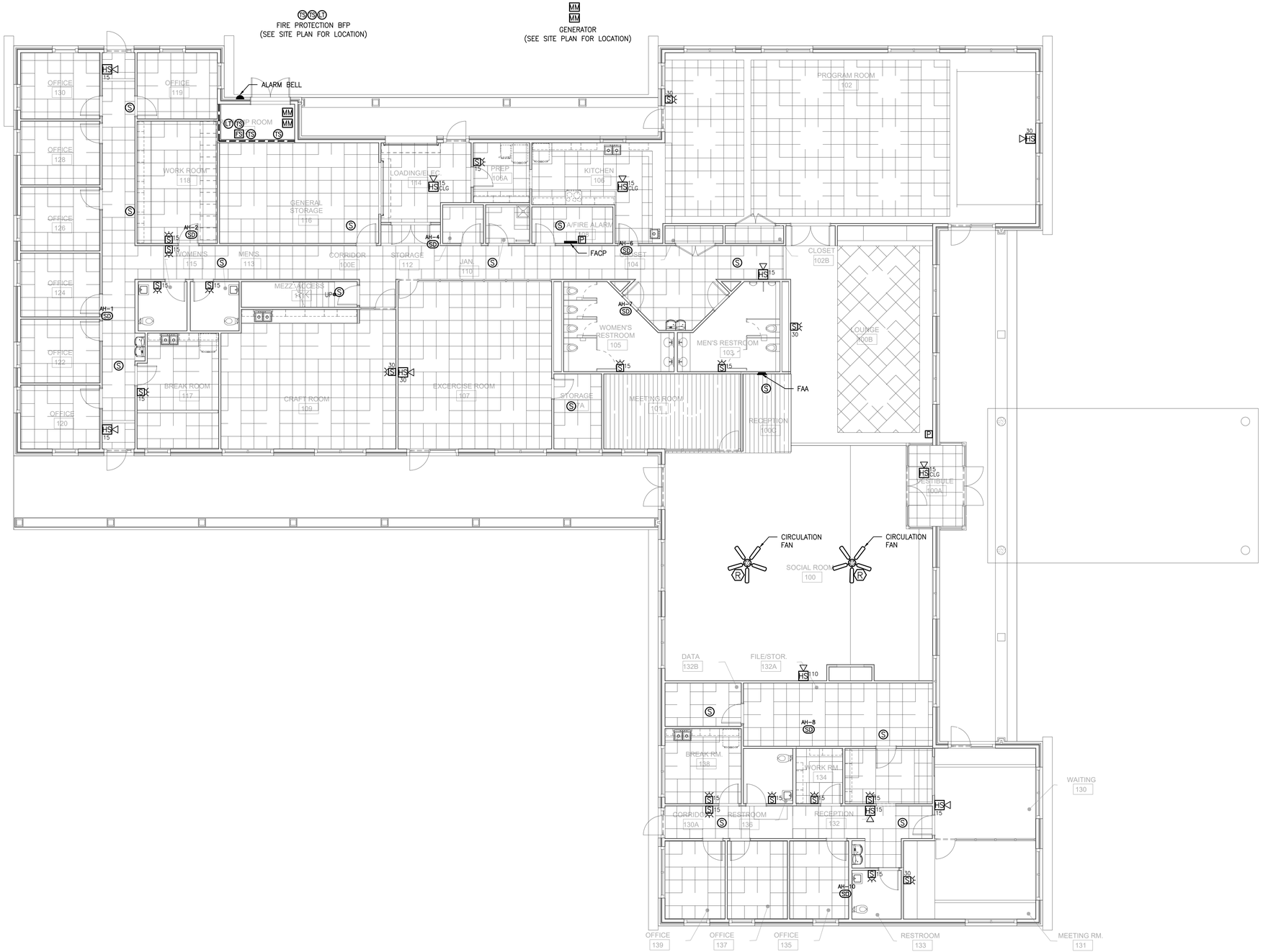
PROJECT #: 22015

ISSUE DATE: 07/21/23

PHASE: CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER: ELECTRICAL SCHEDULES

E4.01



1 FIRE ALARM DEVICE LAYOUT
SCALE: 1/8" = 1'-0"

N

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PROJECT MGR. D. HAM
DRAWN BY D. HILL

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PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

FIRE ALARM PLANS

FA1.01

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

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SYSTEM OUTPUTS: FACP ANNUNCIATION (A–I) | NOTIFICATION (J–L) | REQUIRED FIRE SAFETY CONTROL (M–V)

- A – ACTUATE COMMON ALARM SIGNAL INDICATOR
- B – ACTUATE AUDIBLE ALARM SIGNAL
- C – ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR
- D – ACTUATE AUDIBLE SUPERVISORY SIGNAL
- E – ACTUATE COMMON TROUBLE SIGNAL INDICATOR
- F – ACTUATE AUDIBLE TROUBLE SIGNAL
- G – ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR
- H – ACTUATE GENERAL EVACUATION SIGNAL
- I – DISPLAY CHANGE OF STATUS
- J – TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION
- K – TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
- L – TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
- M – UNLOCK EXITS AND CONTROL DOORS
- N – SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT
- O – TURN ON BUILDING LIGHTS (RELAY CONTROL PANEL)
- P – CIRCULATION FAN SHUT DOWN

#	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	#
1	FIRE ALARM SYSTEM AC POWER FAILURE			●	●					●		●												1
2	FIRE ALARM SYSTEM LOW BATTERY					●	●			●			●											2
3	BATTERIES DISCONNECTED			●	●					●		●												3
4	OPEN CIRCUIT					●	●						●											4
5	GROUND FAULT					●	●						●											5
6	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●						●											6
7	LOSS OF AMPLIFIER			●	●					●		●												7
8	BUILDING MANUAL PULL STATIONS	●	●					●	●	●	●			●	●	●								8
9	CORRIDOR SMOKE DETECTORS	●	●					●	●	●	●			●	●	●								9
10	AREA SMOKE DETECTORS	●	●					●	●	●	●			●	●	●								10
11	HVAC AIR DUCT SMOKE DETECTORS			●	●					●		●		●	●	●								11
12	AREA HEAT DETECTORS	●	●					●	●	●	●			●		●								12
13	TAMPER SWITCH – ZONE CONTROL ASSEMBLY			●	●					●		●												13
14	TAMPER SWITCH – BACK FLOW PREVENTER			●	●					●		●												14
15	TAMPER SWITCH – POST INDICATOR VALVE (EXT.)			●	●					●		●												15
16	SPRINKLER WATER FLOW IN BUILDING	●	●					●	●	●	●			●		●	●							16
17	FIRE PUMP POWER FAILURE/PHASE REVERSAL			●	●			●				●												17
18	FIRE PUMP RUNNING	●	●					●	●	●	●			●		●								18
19	FIRE PUMP SYSTEM NOT IN AUTOMATIC			●	●			●				●												19
20	FIRE PUMP CONNECTED TO ALTERNATE SOURCE			●	●			●				●												20
21	LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL			●	●			●				●												21
22	LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC			●	●			●				●												22
22	LEGALLY REQUIRED GENERATOR ALARM			●	●			●				●												22
24	AHU SHUTDOWN OVERRIDE SWITCH			●	●					●		●												24
25	TEMPERATURE SWITCH					●	●			●			●											25

CODE DATA SUMMARY SHEET FOR FIRE ALARM

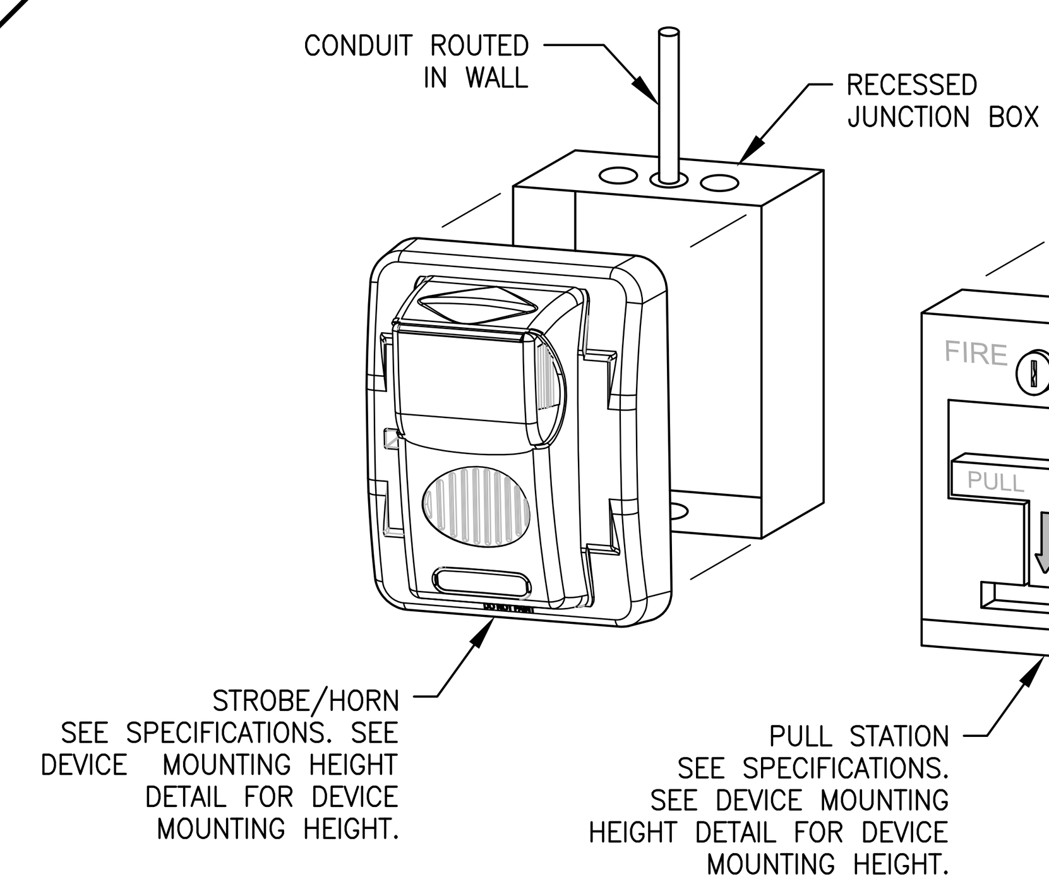
GENERAL REQUIREMENTS: ☐ GENERAL ALARM ONLY ☐ SPRINKLER SYSTEM SUPERVISION ONLY ☒ SPRINKLER AND GENERAL ALARM

SECONDARY POWER REQUIREMENTS:
- VOICE ALARM: ☐ 15 MINUTE ALARM/24 HOUR STANDBY
- REMOTE: ☒ 5 MINUTE ALARM/24 HOUR STANDBY
- CENTRAL: ☐ 5 MINUTE ALARM/24 HOUR STANDBY
- PROPRIETARY: ☐ 5 MINUTE ALARM/24 HOUR STANDBY

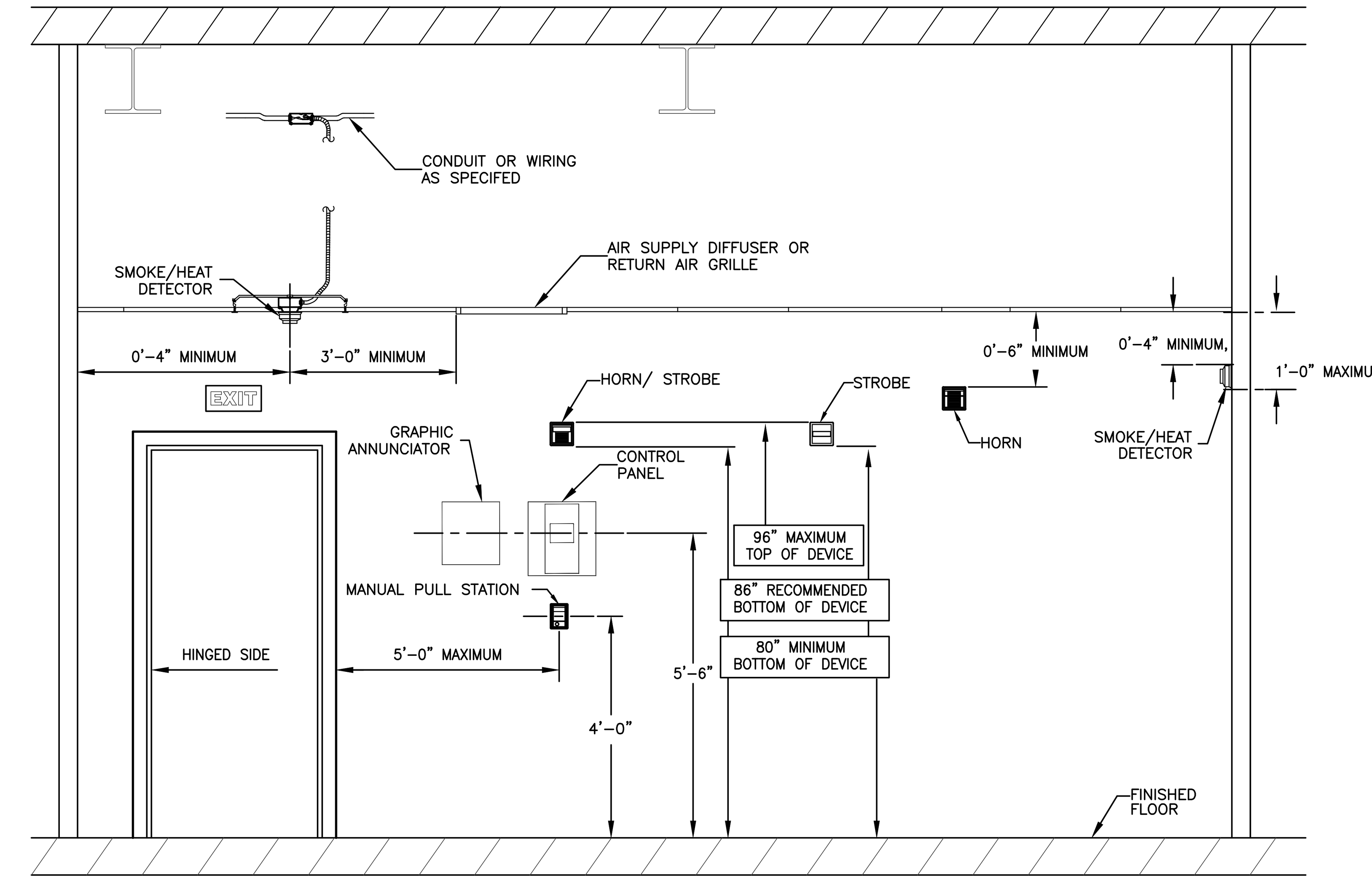
PRIMARY SUPPLY: ☒ LIGHT & POWER ☐ GENERATOR

WIRING: ☐ ELEVATOR NEC 725 ☐ DUCT OR PLENUM NEC 300-22 ☒ POWER LIMITED ☒ NON-POWER LIMITED

LIFE SAFETY CONTROLS:		
SMOKE DOOR:	☐ YES	☒ N/A
SHAFT PRESSURIZATION:	☐ YES	☒ N/A
DUCT DETECTOR:	☒ YES	☐ N/A
DOOR RELEASE:	☐ YES	☒ N/A
ELEVATOR CAPTURE:	☐ YES	☒ N/A
DAMPERS/CONTROLS:	☐ YES	☒ N/A
VOICE ALARM SYSTEM:		
PRE-RECORDED:	☐ YES	☒ N/A
LIVE:	☐ YES	☒ N/A
ENTIRE BUILDING:	☐ YES	☒ N/A
SELECTED SECTION OF BLDG:	☐ YES	☒ N/A
SURVIVABILITY REQUIREMENTS:	☐ YES	☒ N/A
2-WAY COMMUNICATION:	☐ YES	☒ N/A
SMOKE DETECTOR SYSTEM:		
CROSS-ZONED:	☐ YES	☒ N/A
ALARM VERIFICATION:	☐ YES	☒ N/A
APPROVED EQUIVALENT:	☐ YES	☒ N/A
WIRING CLASS:		
CLASS A SYSTEM:	☐ YES	☒ N/A
CLASS B SYSTEM:	☒ YES	☐ N/A
CLASS N SYSTEM:	☐ YES	☒ N/A
CLASS X SYSTEM:	☐ YES	☒ N/A
SPECIAL SYSTEMS:		
FM 200:	☐ YES	☒ N/A
HOOD SYSTEMS:	☐ YES	☒ N/A
PRE-ACTION:	☐ YES	☒ N/A
SPRAY BOOTH:	☐ YES	☒ N/A
OTHER:	–	



1 FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N.T.S.

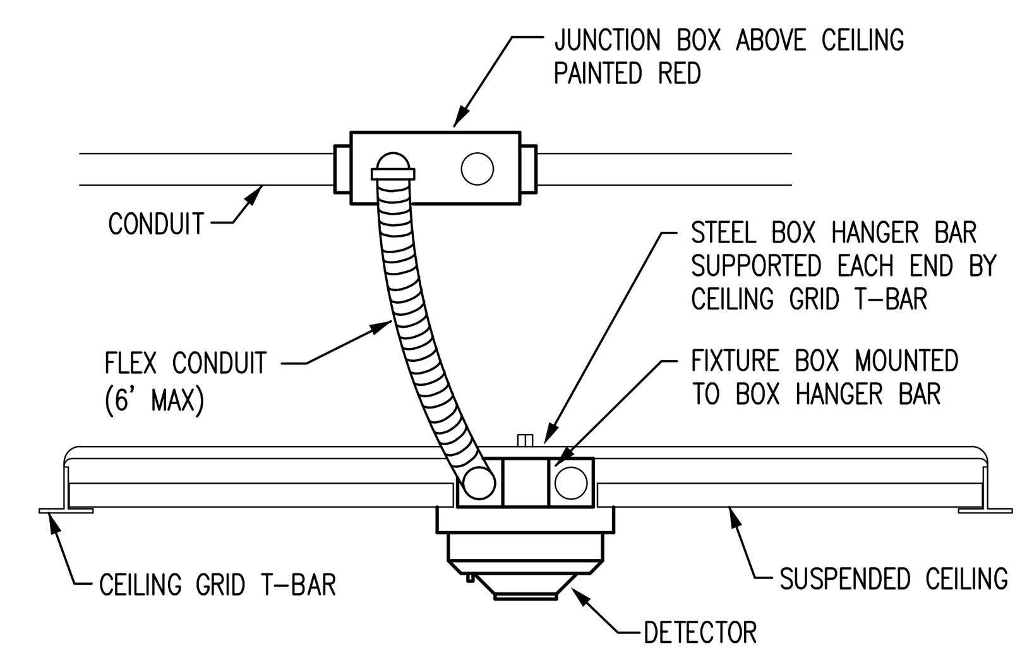


2 FIRE ALARM DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.

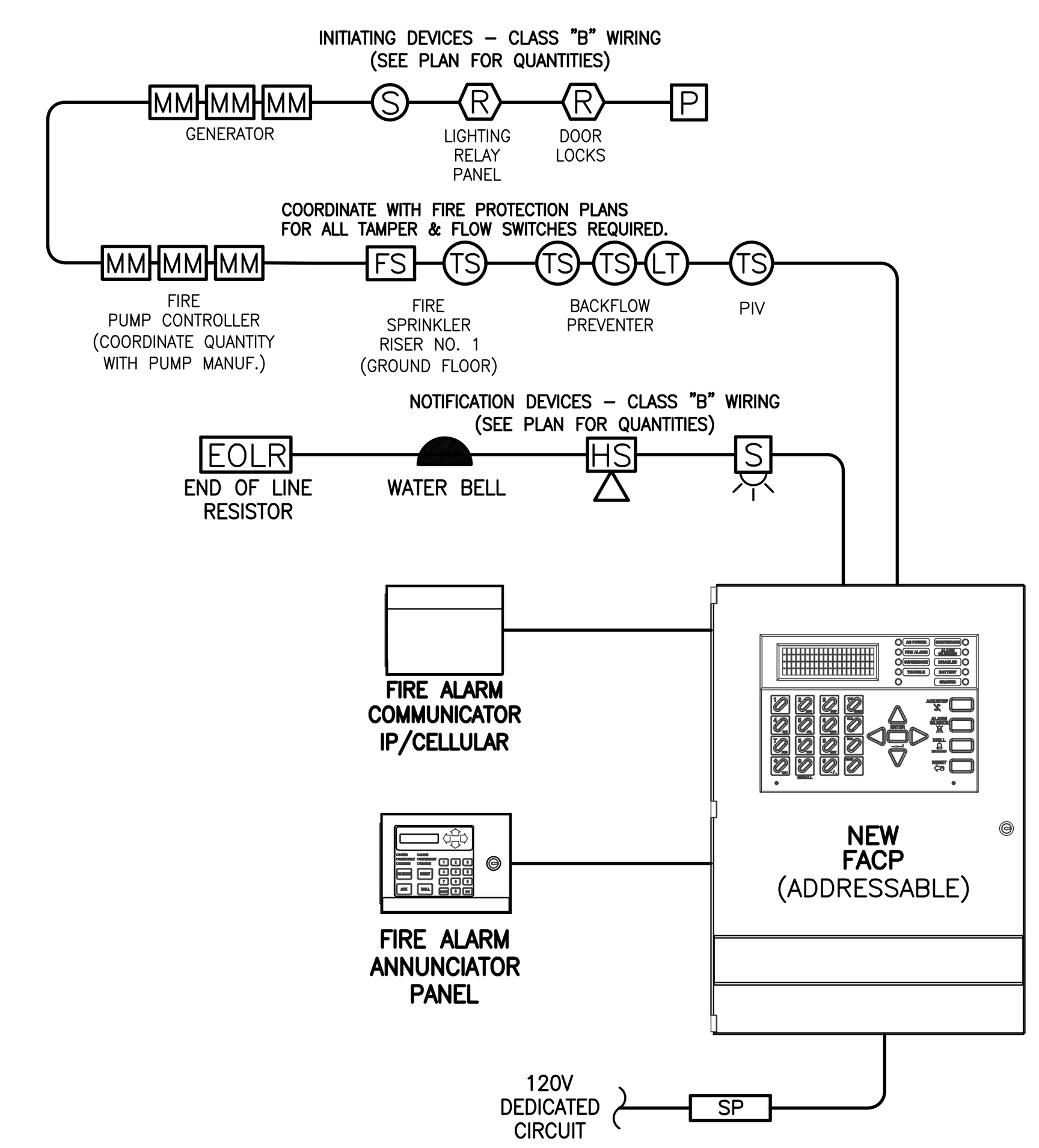
FIRE ALARM PANEL
FED BY PANEL "X"
CIRCUIT NO. "XX"

NOTES:
1. PHENOLIC LABEL, 4" WIDE x 2" IN HEIGHT, SUPPLIED BY THE ELECTRICAL CONTRACTOR, RED IN COLOR WITH WHITE LETTERING (1/2" HIGH).
2. INSERT PANEL DESIGNATION AT "X" LOCATION. AND BLACK LETTERING (1/4" HIGH).
3. INSERT CIRCUIT DESIGNATION AT "XX" LOCATION. AND BLACK LETTERING (1/4" HIGH).

3 FIRE ALARM PANEL LABEL DETAIL
SCALE: N.T.S.



4 TYPICAL CEILING MOUNTED SMOKE DETECTOR DETAIL
SCALE: N.T.S.



5 FIRE ALARM RISER
SCALE: N.T.S.

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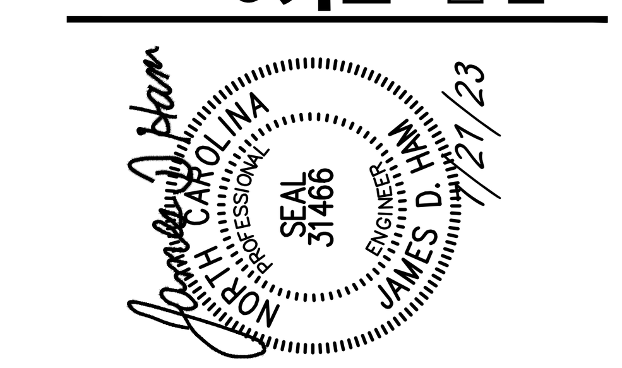

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PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
FIRE ALARM DETAILS & RISER

FA2.01

FIRE ALARM LEGEND

SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
HS 15	AUDIBLE/VISUAL NOTIFICATION APPLIANCE "HORN STROBE" (120 dBA MAX. & 15 CANDELA)	–	MOUNT BOD 90" AFF
HS 30	AUDIBLE/VISUAL NOTIFICATION APPLIANCE "HORN STROBE" (120 dBA MAX. & 30 CANDELA)	–	MOUNT BOD 90" AFF
HS 75	AUDIBLE/VISUAL NOTIFICATION APPLIANCE "HORN STROBE" (120 dBA MAX. & 75 CANDELA)	–	MOUNT BOD 90" AFF
HS 110	AUDIBLE/VISUAL NOTIFICATION APPLIANCE "HORN STROBE" (120 dBA MAX. & 110 CANDELA)	–	MOUNT BOD 90" AFF
S 15	VISUAL NOTIFICATION APPLIANCE "STROBE" (15 CANDELA)	–	MOUNT BOD 90" AFF
S 30	VISUAL NOTIFICATION APPLIANCE "STROBE" (30 CANDELA)	–	MOUNT BOD 90" AFF
S 75	VISUAL NOTIFICATION APPLIANCE "STROBE" (75 CANDELA)	–	MOUNT BOD 90" AFF
S 110	VISUAL NOTIFICATION APPLIANCE "STROBE" (110 CANDELA)	–	MOUNT BOD 90" AFF
S CLG	CEILING MOUNTED FIRE ALARM STROBE	–	CEILING MOUNTED
HS CLG	CEILING MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE. "HORN STROBE"	–	CEILING MOUNTED
P	MANUAL ALARM PULL STATION	–	MOUNT TOD 48" AFF
R/F	HEAT DETECTOR COMBINATION RATE OF RISE/FIXED TEMP	–	CEILING MOUNTED UNO
S	AREA SMOKE DETECTOR	–	CEILING MOUNTED UNO
R	INDIVIDUAL ADDRESSABLE RELAY MODULE –		(2) FORM "C" CONTACTS
SD	DUCT SMOKE DETECTOR –		PHOTOELECTRIC TYPE, COORDINATE TUBE LENGTH W/M.C.
LT	LOW TEMPERATURE SWITCH	–	–
TS	FIRE SPRINKLER VALVE TAMPER SWITCH	–	(VERIFY QUANTITIES WITH FIRE SPRINKLER DRAWINGS)
FS	FIRE SPRINKLER WATER FLOW SWITCH	–	(VERIFY QUANTITIES WITH FIRE SPRINKLER DRAWINGS)
MM	MONITORING MODULE	–	–
FACP	FIRE ALARM CONTROL PANEL	–	(SEE PLANS FOR LOCATION)
FAA	FIRE ALARM ANNUNCIATOR	–	(SEE PLANS FOR LOCATION)
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	–	(SEE DETAIL)
FATC	FIRE ALARM TERMINAL CABINET	–	–
SNAC	SUPPLEMENTARY NOTIFICATION APPLIANCE CIRCUIT PANEL	–	–
~~AHU~~	"AHU SHUTDOWN DEFEAT" SWITCH	–	LOCATE IN OR ADJACENT TO FACP
◗	OUTDOOR ALARM BELL	–	24VDC BELL POWERED FROM FACP
○ PIV	POST INDICATOR VALVE	–	(SEE PLANS FOR LOCATION)
○ RISER	FIRE SPRINKLER RISER	–	(SEE PLANS FOR LOCATION)
SP	SURGE PROTECTION	–	–

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	℄	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

SPRINKLER MONITORING SPECIFICATIONS:

PART 1 – GENERAL

1.1 SUMMARY

A. PROVIDE A COMPLETE AND FUNCTIONAL SPRINKLER MONITORING SYSTEM INCLUDING BUT NOT LIMITED TO, MAIN FIRE ALARM PANEL, MANUAL STATIONS, DETECTORS, SIGNAL EQUIPMENT, CONTROLS, DEVICES, FIRE SPRINKLER INTERFACE DEVICES, WIRING, CONDUIT, SERVICE COMPONENTS AND DATA.

1.2 DEFINITIONS

A. FACP: FIRE ALARM CONTROL PANEL.

B. LED: LIGHT–EMITTING DIODE.

C. DEFINITIONS IN NFPA 72 APPLY TO FIRE ALARM TERMS.

1.3 SYSTEM DESCRIPTION

A. GENERAL: NON–CODED, SYSTEM WITH MANUAL & AUTOMATIC ALARM INDICATION; AND HARD–WIRED FOR SIGNAL TRANSMISSION, USING SEPARATE INDIVIDUAL CIRCUITS FOR EACH ZONE OF ALARM INITIATION & NOTIFICATION APPLIANCES.

PART 2 – PRODUCTS

2.1 FUNCTIONAL SYSTEM DESCRIPTION

A. CONTROL OF SYSTEM: BY SPRINKLER MONITORING SYSTEM (FACP).

B. ALL EQUIPMENT SHALL BE UL LISTED. FACP SHALL BE UL 862 9th ED. LISTED.

C. SYSTEM SUPERVISION: AUTOMATICALLY DETECT AND REPORT OPEN CIRCUITS, SHORTS, AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION APPLIANCE CIRCUITS.

D. PRIORITY OF SIGNALS: AUTOMATIC ALARM RESPONSE FUNCTIONS RESULTING FROM AN ALARM SIGNAL FROM ONE ZONE OR DEVICE ARE NOT ALTERED BY SUBSEQUENT ALARM, SUPERVISORY, OR TROUBLE SIGNALS. AN ALARM SIGNAL IS THE HIGHEST PRIORITY. SUPERVISORY AND TROUBLE SIGNALS HAVE SECOND AND THIRD LEVEL PRIORITY. HIGHER PRIORITY SIGNALS TAKE PRECEDENCE OVER SIGNALS OF LOWER PRIORITY, EVEN WHEN THE LOWER PRIORITY CONDITION OCCURS FIRST. ANNUNCIATE AND DISPLAY ALL ALARM, SUPERVISORY, AND TROUBLE SIGNALS REGARDLESS OF PRIORITY OF ORDER RECEIVED.

E. HISTORY LOGS: THE SYSTEM SHALL PROVIDE A MEANS TO RECALL ALARMS AND TROUBLE CONDITIONS IN CHRONOLOGICAL ORDER FOR THE PURPOSE OF RECREATING AN EVENT HISTORY. SEPARATE ALARM, SUPERVISORY AND TROUBLE LOGS SHALL BE PROVIDED.

F. THE "SYSTEM RESET" BUTTON SHALL BE USED TO RETURN THE SYSTEM TO ITS NORMAL STATE. DISPLAY MESSAGES SHALL PROVIDE OPERATOR ASSURANCE OF THE SEQUENTIAL STEPS ("IN PROGRESS", "RESET COMPLETED") AS THEY OCCUR. THE SYSTEM SHALL VERIFY ALL CIRCUITS OR DEVICES ARE RESTORED PRIOR TO RESETTING THE SYSTEM TO AVOID THE POTENTIAL FOR RE–ALARMING THE SYSTEM. THE DISPLAY MESSAGE SHALL INDICATE "ALARM PRESENT, SYSTEM RESET ABORTED."

G. TRANSMISSION TO REMOTE ALARM RECEIVING STATION: AUTOMATICALLY ROUTE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION BY MEANS OF A CELLULAR NETWORK PER NFPA 72 SECTION 26.3.

H. SYSTEM ALARM CAPABILITY DURING CIRCUIT FAULT CONDITIONS: SYSTEM WIRING AND CIRCUIT ARRANGEMENT PREVENT ALARM CAPABILITY REDUCTION WHEN AND OPEN CIRCUIT, GROUND OR WIRE TO WIRE SHORT OCCURS, OF AND OPEN CIRCUIT AND A GROUND OCCUR AT THE SAME TIME IN AN INITIATING DEVICE CIRCUIT, SIGNAL LINE CIRCUIT, OR NOTIFICATION APPLIANCE CIRCUIT.

I. LOSS OF PRIMARY POWER AND THE FACP INITIATES A TROUBLE SIGNAL AT THE FACP. AN EMERGENCY POWER LIGHT IS ILLUMINATED AT BOTH LOCATIONS WHEN THE SYSTEM IS OPERATING ON THE SECONDARY POWER SUPPLY.

K. ALARM SILENCING, SYSTEM RESET & INDICATION: CONTROLLED BY SWITCHES AT THE FACP.

L. BASIC ALARM PERFORMANCE REQUIREMENTS: UNLESS OTHERWISE INDICATED, OPERATION OF A MANUAL STATION, AUTOMATIC ALARM OPERATION OF A SMOKE OR FLAME OR HEAT DETECTOR INITIATES THE FOLLOWING,

1. NOTIFICATION APPLIANCE OPERATION.
2. IDENTIFICATION AT THE FACP AND THE REMOTE ANNUNCIATOR OF THE DEVICE ORIGINATING THE ALARM.
3. TRANSMISSION OF AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
4. SHUTDOWN OF FANS AND OTHER AIR–HANDLING EQUIPMENT SERVING ZONES WHERE ALARMS INITIATED.

M. RECORDING OF EVENT IN SYSTEM MEMORY.

N. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:

1. OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION–APPLIANCE CIRCUITS.
2. OPENING, TAMPERING, OR REMOVAL OF ALARM INITIATING AND SUPERVISORY SIGNAL–INITIATING DEVICES.
3. LOSS OF PRIMARY POWER AT THE FACP.
4. GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS.
5. ABNORMAL AC VOLTAGE AT THE FACP.
6. A BREAK IN STAND–BY BATTERY CIRCUITRY.
7. FAILURE OF BATTERY CHARGING.
8. ABNORMAL POSITION OF ANY SWITCH AT THE FACP.
9. FIRE–PUMP POWER FAILURE, INCLUDING A DEAD PHASE OR PHASE–REVERSAL CONDITION.

O. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS:

1. RING TROUBLE BELL AND ANNUNCIATE AT THE FACP.
2. RECORD THE EVENT ON THE SYSTEM PRINTER.
3. TRANSMISSION OF TROUBLE SIGNAL TO REMOTE ALARM RECEIVING STATION.

P. PRIMARY POWER

1. CONNECTION TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". THE LOCATION OF CIRCUITING DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
2. INSTALL SURGE PROTECTION ON NORMAL AC POWER FOR THE FACP. PROVIDE SURGE PROTECTORS RECOMMENDED BY FACP MANUFACTURER.

Q. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:

1. OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION–APPLIANCE CIRCUITS.
2. OPENING, TAMPERING, OR REMOVAL OF ALARM INITIATING AND SUPERVISORY SIGNAL–INITIATING DEVICES.
3. LOSS OF PRIMARY POWER AT THE FACP.
4. GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS.
5. ABNORMAL AC VOLTAGE AT THE FACP.
6. A BREAK IN STAND–BY BATTERY CIRCUITRY.
7. FAILURE OF BATTERY CHARGING.
8. ABNORMAL POSITION OF ANY SWITCH AT THE FACP.
9. FIRE–PUMP POWER FAILURE, INCLUDING A DEAD PHASE OR PHASE–REVERSAL CONDITION.

R. SECONDARY (STAND–BY) POWER

1. THE SECONDARY SUPPLY SHALL AUTOMATICALLY SUPPLY THE ENERGY TO THE SYSTEM WITHIN 30 SECONDS.
2. THE SECONDARY SUPPLY SHALL HAVE SUFFICIENT CAPACITY TO OPERATE FOR 24 HOURS WHEN SYSTEM IS FUNCTIONING IN A NON–ALARM CONDITION. AT THE END OF THAT PERIOD, THE SECONDARY SUPPLY SHALL BE CAPABLE OF OPERATING IN ALARM MODE FOR 5 MINUTES.
3. FIRE ALARM SYSTEM INSTALLER SHALL CERTIFY CALCULATED CAPACITY TO DRIVE THE SYSTEM PER NFPA 72 ON FORM FOR RECORD OF COMPLETION.

S. SHOP DRAWINGS:

1. SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WITH THE FOLLOWING QUALIFICATIONS:
   - 1.A. TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE ALARM SYSTEM DESIGN.
   - 1.B. FIRE ALARM CERTIFIED BY NICET, MINIMUM LEVEL III.
2. SYSTEM OPERATION DESCRIPTION: DETAILED DESCRIPTION FOR THIS PROJECT, INCLUDING METHOD OF OPERATION AND SUPERVISION OF EACH TYPE OF CIRCUIT AND SEQUENCE OF OPERATIONS FOR MANUALLY AND AUTOMATICALLY INIATIED SYSTEM INPUTS AND OUTPUTS. MANUFACTURER'S STANDARD DESCRIPTION FOR GENERIC SYSTEMS ARE NOT ACCEPTABLE.
3. DEVICE ADDRESS LIST: COORDINATE WITH FINAL SYSTEM PROGRAMMING.
4. SYSTEM RISER DIAGRAM WITH DEVICE ADDRESSES, CONDUIT SIZES, AND CABLE AND WIRE TYPES AND SIZES.
5. WIRING DIAGRAMS: POWER, SIGNAL, AND CONDUIT WIRING. INCLUDE DIAGRAMS FOR EQUIPMENT AND FOR SYSTEM WITH ALL TERMINALS AND INTERCONNECTIONS IDENTIFIED. SHOW WIRING COLOR CODE.
6. BATTERIES: SIZE CALCULATIONS.

2.2 MANUAL PULL STATIONS

K. DESCRIPTION: FABRICATED OF METAL OR PLASTIC AND FINISHED IN RED WITH MOLDED, RAISED LETTER OPERATING INSTRUCTIONS OF CONTRASTING COLOR.

2.3 SMOKE DETECTORS

A. GENERAL: SHALL INCLUDE THE FOLLOWING FEATURES.

1. OPERATING VOLTAGE: 24 VDC, NOMINAL.
2. SELF–RESTORING: DETECTORS DO NOT REQUIRE RESETTING OR READJUSTMENT AFTER ACTUATION TO RESTORE THEM TO NORMAL OPERATION.
3. PLUG–IN ARRANGEMENT: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS ARE MOUNTED IN A MODULE THAT CONNECTS IN A TAMPER–RESISTANT MANNER TO A FIXED BASE WITH A TWIST–LOCKING PLUG CONNECTION. SCREW TERMINALS ARE LOCATED IN THE FIXED BASE FOR SYSTEM CONNECTIONS.
4. INTEGRAL VISUAL INDICATING LIGHT: LED BLINKS WHEN UNIT IS ADDRESSED AND LATCHES ON ALARM.

B. PHOTO ELECTRIC DETECTOR: INCLUDE THE FOLLOWING FEATURES:

1. SELF–COMPENSATING FOR VARIATIONS IN ENVIRONMENTAL CONDITIONS.
2. MAINTENANCE ALERT WARNING WHEN SMOKE DETECTOR DUST ACCUMULATION IS EXCESSIVE AND WHEN SENSITIVITY IS OUTSIDE ITS LISTED SENSITIVITY RANGE.
3. DETECTOR SENSITIVITY TEST CAPABILITY AT THE FACP (NFPA 72)

2.4 SURGE ARRESTORS

A. THE FOLLOWING PROTECTION AGAINST VOLTAGE TRANSIENTS AND SURGES MUST BE PROVIDED BY THE FIRE ALARM EQUIPMENT SUPPLIER, AND INSTALLED BY THE ELECTRICAL CONTRACTOR:

1. ON AC INPUT: A FEED–THROUGH (NOT A SHUNT–TYPE) BRANCH CIRCUIT TRANSIENT ARRESTOR SUCH AS THE EFI HWM–120, LEVITON OEM–120EFT, NORTHERN TECHNOLOGIES TCS–HW, TRANSTECTOR ACP100BWN3, OR ANY EQUIVALENT UL LISTED DEVICE SUBMITTED TO AND APPROVED BY THE ELECTRICAL DESIGN ENGINEER. INSTALL SUPPRESSOR IN A LISTED ENCLOSURE NEAR THE ELECTRICAL PANELBOARD, AND TRIM EXCESS LEAD LENGTHS. WIND SMALL COIL IN THE BRANCH CIRCUIT CONDUCTOR JUST DOWNSTREAM OF THE SUPPRESSOR CONNECTION. COIL SHALL BE 5 TO 10 TURNS, ABOUT 1" DIAMETER, AND SECURELY TIE–WRAPPED.
2. ON DC CIRCUITS EXTENDING BEYOND BUILDING: PROVIDE ADJACENT TO FACP, AND ALSO NEAR POINT OF EXIT FROM MAIN BUILDING AND ENTRY TO OUTLYING BUILDING, PROVIDE "PI" TYPE FILTER ON EACH LEG CONSISTING OF A PRIMARY ARRESTOR, SERIES IMPEDANCE, AND A FAST ACTING SECONDARY ARRESTOR THAT CLAMPS AT 30–40VDC. ACCEPTABLE MODELS INCLUDE: INNOVATIVE TECHNOLOGY D2S33–2ML, SIMPLEX 2081–9027, DITEK DTKXLVL, OR LEVITON 3824–OWM. DEVICES USING ONLY MOV ACTIVE ELEMENTS ARE NOT ACCEPTABLE

2.5 WIRE

A. NON–POWER–LIMITED CIRCUITS: SOLID COPPER CONDUCTORS WITH 600V RATED, 75 DEG C, COLOR CODED INSULATION PER NFPA 72

1. LOW VOLTAGE CIRCUITS: #16 AWG, MINIMUM.
2. LINE VOLTAGE CIRCUITS: #12 AWG, MINIMUM.

B. POWER–LIMITED CIRCUITS: NFPA 70, TYPES FPL, FPLR OR FPLP AS RECOMMENDED BY MANUFACTURER.

PART 3 – EXECUTION

3.1 EQUIPMENT INSTALLATION

A. CONNECT THE FACP FROM A DEDICATED BREAKER WITH LOCKING PROVISIONS TO PREVENT ACCIDENTAL DE–ENERGIZING OF CIRCUIT.

B. MANUAL PULL STATIONS: MOUNT SEMI FLUSH IN RECESSED BACK BOXES.

C. CEILING MOUNTED SMOKE DETECTORS: NOT LESS THAN 4 INCHES FROM A SIDEWALL TO THE NEAR EDGE. FOR EXPOSED SOLID JOIST CONSTRUCTION, MOUNT DETECTORS ON THE BOTTOM OF JOISTS.

D. FACP: FIRE ALARM CONTROL PANEL SHALL BE SURFACE MOUNTED WITH TOP OF CABINET NOT MORE THAN 72 INCHES FROM FINISHED FLOOR.

E. TO MINIMIZE WIRING FAULT IMPACT, ISOLATION MODULES SHALL BE PROVIDED IN ALL THE LOCATIONS LISTED BELOW. IF CEILING HEIGHT ≤ 10 FEET, ISOLATOR BASE TYPE INITIATING DEVICES ARE PERMITTED TO BE USED TO SATISFY ANY OR ALL OF THE FOLLOWING:

1. IN OR IMMEDIATELY ADJACENT TO THE FACU, AT EACH END OF THE LOOP. THESE TWO ISOLATORS MUST BE IN THE SAME ROOM AS THE FACU AND WITHIN 15 FEET.
2. AFTER EACH 25 INITIATING DEVICES AND CONTROL POINTS ON THE LOOP.
3. FOR LOOPS WITH LESS THAN 25 DEVICES AND CONTROL POINTS, INSTALL AN ISOLATOR AT THE APPROXIMATE MIDDLE OF THE LOOP.
4. NEAR THE POINT ANY CIRCUIT EXTENDS OUTSIDE THE BUILDING, EXCEPT FOR THSOE ATTACHED TO THE BUILDING EXTERIOR WALLS.

3.2 WIRING INSTALLATION

A. WIRING METHOD: INSTALL NON–POWER–LIMITED WIRING IN METAL RACEWAY AND PER NFPA 72, LATEST EDITION. CONCEAL RACEWAY EXCEPT IN UNFINISHED SPACES AND AS INDICATED. INSTALL POWER–LIMITED WIRING IN METAL RACEWAY AS REQUIRED BY AUTHORITY HAVING LOCAL JURISDICTION, OTHERWISE PROVIDE PLENUM OR NON–PLENUM RATED CABLE AS REQUIRED BY CONDITIONS OF INSTALLATION, CONCEALED IN FINISHED SPACES.

B. WIRING WITHIN ENCLOSURES: SEPARATE POWER LIMITED AND NON–POWER LIMITED CONDUCTORS AS RECOMMENDED BY THE MANUFACTURER. INSTALL CONDUCTORS PARALLEL WITH AND AT RIGHT ANGLES TO SIDES AND BACK OF ENCLOSURE. BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS. CONNECT CONDUCTORS THAT ARE TERMINATED, SPICED OR INTERRUPTED IN ANY ENCLOSURE ASSOCIATED WITH THE FIRE ALARM SYSTEM TO TERMINAL BLOCKS. MARK EACH TERMINAL ACCORDING TO THE SYSTEMS WIRING DIAGRAMS. MAKE ALL CONNECTIONS WITH APPROVED CRIMP–ON TERMINAL SPADE LUGS, PRESSURE TYPE TERMINAL BLOCKS, OR PLUG CONNECTORS.

C. CABLE TAPS: USE NUMBERED STRIPS IN JUNCTION, PULL AND OUTLET BOXES, CABINETS, OR EQUIPMENT ENCLOSURES WHERE CIRCUIT CONNECTIONS ARE MADE. CLASS "A" SIGNALING LINE CIRCUITS SHALL NOT CONTAIN "T–TAPS".

D. THERE SHALL BE NO SPLICES IN THE SYSTEM OTHER THAN AT DEVICE TERMINAL BLOCKS, OR ON TERMINAL BLOCKS IN CABINETS. "WIRE NUTS" AND CRIMP SPLICES WILL NOT BE PERMITTED. PERMANENT WIRE MARKERS SHALL BE USED TO IDENTIFY ALL CONNECTIONS AT THE FACU AND OTHER CONTROL EQUIPMENT, AT POWER SUPPLIES, AND IN TERMINAL CABINETS.

E. COLOR CODING: INITIATING CIRCUITS, GENERAL RED(+)/WHITE(–) INITIATING CIRCUITS, SMOKE ONLY VIOLET(+)/GRAY(–), ALARM INDICATING APPLIANCE CIRCUITS BLUE(+)/BLACK(–), AHU SHUTDOWN CIRCUITS YELLOW(+)/BROWN(–)

3.3 IDENTIFICATION

A. IDENTIFY SYSTEM COMPONENTS, WIRING, CABLING AND TERMINALS ACCORDING TO REQUIREMENTS OF NFPA 72, LATEST EDITION.

B. INSTALL INSTRUCTIONS, FRAMED, IN A LOCATION ADJACENT TO AND VISIBLE FROM THE FACP.

C. PAINT POWER SUPPLIES DISCONNECT SWITCH OR BREAKER RED AND LABEL "FIRE ALARM".

D. ALL JUNCTION BOX COVERS SHALL BE PAINTED RED.

E. PROVIDE AN ENGRAVED LABEL AT EACH FIRE ALARM SYSTEM CONTROL UNIT, SYSTEM SUB–PANEL, SUPPLEMENTARY NOTIFICATION APPLIANCE PANEL, ETC., IDENTIFYING ITS 120VAC POWER SOURCE AS FOLLOWS: PANELBOARD LOCATION, PANELBOARD IDENTIFICATION, AND BRANCH CIRCUIT NUMBER.

3.4 GROUNDING

A. GROUND CABLE SHIELDS AND EQUIPMENT ACCORDING TO SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS TO ELIMINATE SHOCK HAZARD AND TO MINIMIZE, GROUND LOOPS, COMMON MODE RETURNS, NOISE TRANSMISSION, CROSS TALK AND OTHER IMPAIRMENTS. PROVIDE MAXIMUM 5– OHM GROUND AT FACP LOCATION. MEASURE RECORD AND REPORT GROUND RESISTANCE.

B. SIGNAL GROUND TERMINAL: LOCATE AT MAIN EQUIPMENT RACK OR ISOLATE FROM POWER SYSTEM AND EQUIPMENT GROUNDING.

C. INSTALL GROUNDING ELECTRODES OF TYPE, SIZE, LOCATION, & QUANTITY AS INDICATED. COMPLY WITH INSTALLATION REQUIREMENTS FROM MANUFACTURER & AS REQUIRED BY NFPA 70 & NFPA 72 LATEST EDITION.

3.5 FIELD QUALITY CONTROL

A. MANUFACTURER FIELD SERVICE: ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT FIELD ASSEMBLED COMPONENTS & CONNECTIONS AND TO SUPERVISE PRE–TESTING, TESTING AND ADJUSTMENT OF THE SYSTEM. REPORT RESULTS IN WRITING.

B. PRE–TESTING: AFTER INSTALLATION, ALIGN, ADJUST, AND BALANCE THE SYSTEM AND PERFORM COMPLETE PRE–TESTING. DETERMINE THROUGH PRE–TESTING, THE COMPLIANCE OF THE SYSTEM WITH REQUIREMENTS OF CONTRACT DOCUMENTS. CORRECT DEFICIENCIES OBSERVED IN PRE–TESTING. REPLACE MALFUNCTIONING OR DAMAGED ITEMS WITH NEW DEVICES, AND RETEST UNTIL SATISFACTORY PERFORMANCE IS ACHIEVED. PREPARE FORMS FOR SYSTEMATIC RECORDING OF ACCEPTANCE TEST

C. REPORT OF PRE–TESTING: AFTER PRE–TESTING IS COMPLETE, PROVIDE A LETTER CERTIFYING THE INSTALLATION IS COMPLETE AND FULLY OPERABLE, INCLUDING NAMES AND TITLES OF WITNESSES TO PRELIMINARY TESTS.

D. FINAL TEST NOTICE: PROVIDE MINIMUM OF 10 DAY'S NOTICE IN WRITING WHEN THE SYSTEM IS READY FOR FINAL ACCEPTANCE TESTING.

E. MINIMUM SYSTEM TESTS: TEST THE SYSTEM ACCORDING TO PROCEDURES OUTLINED IN NFPA 72, LATEST EDITION. MINIMUM REQUIRED TESTS ARE AS FOLLOWS:

1. VERIFY ABSENCE OF UNWANTED VOLTAGES BETWEEN CIRCUIT CONDUCTORS AND GROUND.
2. TEST ALL CONDUCTORS FOR SHORT CIRCUITS USING AND INSULATION TESTING DEVICE.
3. WITH EACH CIRCUIT PAIR, SHORT AT THE FAR END OF THE CIRCUIT AND MEASURE THE CIRCUIT RESISTANCE WITH AN OHMMETER. RECORD THE CIRCUIT RESISTANCE OF EACH CIRCUIT ON THE RECORD DRAWINGS.
4. VERIFY THAT THE CONTROL UNIT IS IN THE NORMAL CONDITION AS DETAILED IN THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL.
5. TEST INITIATING AND INDICATING CIRCUITS FOR PROPER SIGNAL TRANSMISSION UNDER OPEN CIRCUIT CONDITIONS. ONE CONNECTION EACH SHOULD BE OPENED AT NOT LESS THAN 10 PERCENT OF INITIATING AND INDICATING DEVICES. OBSERVE PROPER SIGNAL TRANSMISSION ACCORDING TO CLASS OF WIRING USED.
6. TEST EACH INITIATING AND INDICATING DEVICE FOR ALARM OPERATION AND PROPER RESPONSE AT THE CONTROL UNIT. TEST SMOKE DETECTORS WITH ACTUAL PRODUCTS OF COMBUSTION.
7. TEST THE SYSTEM FOR ALL SPECIFIED FUNCTIONS ACCORDING TO THE APPROVED OPERATION AND MAINTENANCE MANUAL. SYSTEMATICALLY INITIATE SPECIFIED FUNCTIONAL PERFORMANCE ITEMS AT EACH STATION, INCLUDING MAKING ALL POSSIBLE ALARM AND MONITORING INDICATIONS AND USING ALL COMMUNICATIONS OPTIONS. FOR EACH ITEM, OBSERVE RELATED PERFORMANCE AT ALL DEVICES REQUIRED TO BE AFFECTED BY THE ITEM UNDER ALL SYSTEM SEQUENCES. OBSERVE INDICATING LIGHTS, DISPLAYS AND SIGNAL TONES. OBSERVE ALL VOICE AUDIO FOR ROUTING, CLARITY, QUALITY, FREEDOM FROM NOISE AND DISTORTION, AND PROPER VOLUME LEVEL.
8. TEST BOTH PRIMARY AND SECONDARY POWER: VERIFY BY TEST THAT THE SECONDARY POWER SYSTEM IS CAPABLE OF OPERATING THE SYSTEM FOR THE PERIOD AND THE MANNER SPECIFIED.

F. RETESTING: CORRECT DEFICIENCIES INDICATED BY TESTS AND COMPLETELY RETEST WORK AFFECTED BY SUCH DEFICIENCIES. VERIFY BY THE SYSTEM TEST THAT THE TOTAL SYSTEM MEETS SPECIFICATIONS AND COMPLIES WITH APPLICABLE STANDARDS.

G. REPORT OF TESTS AND INSPECTIONS: PROVIDE A WRITTEN RECORD OF INSPECTIONS, TESTS, AND DETAILED TEST RESULTS IN THE FORM OF A TEST. SUBMIT LOG ON SATISFACTORY COMPLETION OF TESTS.

H. TAG ALL EQUIPMENT, STATIONS AND OTHER COMPONENTS AT WHICH TESTS HAVE BEEN SATISFACTORILY COMPLETED.

I. BEFORE REQUESTING FINAL APPROVAL OF INSTALLATION, SUBMIT A WRITTEN STATEMENT USING FORM FOR RECORD OF COMPLETION IN NFPA 72.

3.6 CLEANING AND ADJUSTING

A. CLEANING: REMOVE PAINT SPLATTERS AND OTHER SPOTS, DIRT, AND DEBRIS. TOUCH UP SCRATCHES AND MARRED FINISH TO MATCH ORIGINAL FINISH. CLEAN UNIT INTERNALLY USING METHODS AND MATERIALS RECOMMENDED BY MANUFACTURER.

FIRE ALARM NOTES:

1. FIRE ALARM PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
2. FIRE ALARM CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF FIRE ALARM INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
3. ALL WORK SHALL COMPLY WITH THE LOCAL FIRE CODE, THE 2020 NATIONAL ELECTRICAL CODE (NEC) AND 2013 NFPA 72. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
5. FIRE ALARM CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS VERIFYING THAT SECONDARY SUPPLY HAS SUFFICIENT CAPACITY TO OPERATE FOR 24 HOURS WHEN SYSTEM IS FUNCTIONING IN A NON–ALARM CONDITION. AT THE END OF THAT PERIOD, THE SECONDARY SUPPLY SHALL BE CAPABLE OF OPERATING IN ALARM MODE FOR 5 MINUTES. FIRE ALARM INSTALLER SHALL CERTIFY CALCULATED CAPACITY TO DRIVE THE SYSTEM PER NFPA 72 ON FORM FOR RECORD OF COMPLETION.
6. ALL WIRING, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED.
7. PER NFPA 72 – 10.6.5.2.1, THE LOCATION OF THE DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED ON THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE SUCH AS "FIRE ALARM CIRCUIT" OR "EMERGENCY COMMUNICATIONS" PER 10.6.5.2.2. THE DISCONNECT SHALL HAVE A RED MARKING AND PROVIDED WITH A LISTED BREAKER LOCKING DEVICE PER 10.6.5.2.3.
8. CONDUIT SHALL BE **RED** EMT WITH COMPRESSION TYPE FITTINGS WHERE EXPOSED OR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. ALL JUNCTION BOX COVERS SHALL BE PAINTED RED. ALL RACEWAYS TERMINATING AT SHEET METAL BOXES OR CABINETS SHALL UTILIZE INSULATING BUSHINGS. IMC OR RGS SHALL BE USED IN ANY OUTDOOR LOCATION.
9. FIRE ALARM CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC RISER DIAGRAM WITH DEVICE ADDRESSES AT ANNUNICATOR AND MAIN FACP LOCATIONS. PROVIDE FRAMED OPERATING INSTRUCTIONS AT MAIN FACP. INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE–ALARM CONTROL UNIT. PROVIDE FLOOR PLANS WITH DEVICE NUMBERS WITH A SEPARATE SHEET PROVIDED FOR EACH FLOOR. PLANS SHALL BE REDUCED IN SIZE FROM ENGINEERING PLANS IN ORDER TO FIT ON 11 X 14 SHEETS PER FLOOR. ALL DEVICE ADDRESSES SHALL BE CLEARLY LABELED ON PLANS. INDICATE LOCATIONS OF ALL CABINETS, MODULES AND END OF LINE DEVICES. SHEETS SHALL BE LAMINATED. PROVIDE LEGEND FOR SYMBOLS. PLANS SHALL INCLUDE THE FOLLOWING: NAME OF BUILDING OR BUSINESS, ADDRESS OF BUILDING OR BUSINESS, NORTH ARROW, FIRE ALARM SYMBOL LEGEND, AND DATE WHEN PLANS WERE INSTALLED.
10. SPRINKLER VALVE SUPERVISORY SWITCH: SUPERVISORY SWITCH MECHANISMS SHALL BE CONTAINED IN A WEATHERPROOF HOUSING THAT SHALL PROVIDE A 3/4 INCH TAPPED CONDUIT ENTRANCE AND SHALL INCORPORATE THE NECESSARY FACILITY FOR ATTACHMENT TO THE VALVES. SWITCH HOUSING SHALL BE FINISHED IN RED BAKED ENAMEL. MOUNTING: MOUNT SWITCH SO AS NOT TO INTERFERE WITH THE NORMAL OPERATION OF THE VALVE AND ADJUST TO OPERATE WITHIN TO REVOLUTIONS TOWARD THE CLOSED POSITION OF THE VALVE CONTROL, OR WHEN THE STEM HAS MOVED NO MORE THAN ONE–FIFTH THE DISTANCE FROM ITS NORMAL POSITION.
11. SPRINKLER SUPERVISORY MONITORING OF FLOW SWITCHES, TAMPER SWITCHES, AND SIMILAR FUNCTIONS SHALL BE ACCOMPLISHED WITH A SEPARATE SYSTEM ADDRESS FOR EACH ACTIVITY MONITORED.
12. ALL AUDIBLE AND VISUAL NOTIFICATION APPLIANCES SHALL BE OFF–WHITE IN COLOR.
13. VISUAL NOTIFICATION APPLIANCES MUST BE SYNCHRONIZED WHERE MORE THAN TWO APPLIANCES CAN BE VIEWED AT THE SAME TIME.
14. INITIATING DEVICES SHALL HAVE A LABEL INDICATING THE DEVICE ADDRESS. THE LABEL SHALL BE READABLE FROM THE FLOOR LEVEL. ADDRESS MUST MATCH THE AS–BUILT PLANS.
15. NOTIFICATION CIRCUIT BOOSTER POWER SUPPLIES OR 24VDC POWER CIRCUITS SERVING ADDRESSABLE CONTROL RELAYS SHALL BE INDIVIDUALLY MONITORED FOR INTEGRITY.
16. AUDIBLE NOTIFICATION APPLIANCE SOUND LEVELS SHALL BE FIELD–TESTED. SOUND LEVEL SHALL BE 15 dBA MINIMUM ABOVE AMBIENT SOUND LEVEL IN ROOM OR SPACE; OR 5 dBA ABOVE ANY MAXIMUM SOUND LEVEL HAVING A 60 SECOND MINIMUM DURATION – WHICHEVER IS LOUDER. SOUND PATTERN SHALL BE OF THREE BEAT TEMPORAL PATTERN.
17. AREA HEAT AND SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3–FT. FROM SUPPLY AIR DIFFUSERS. ADJUST LOCATIONS IN FIELD AS REQUIRED AND MAINTAIN MAXIMUM SPACING LIMITATIONS PER NFPA 72.
18. ACCEPTANCE TEST OF THE FIRE ALARM SYSTEM SHALL BE WITNESSED PRIOR TO OCCUPANCY OF BUILDING. PROVIDE A SMOKE MACHINE FOR TESTING DUCT SMOKE DETECTORS AND AREA SMOKE DETECTORS. THE USE OF SMOKE BOMBS AND MAGNETS IS NOT ACCEPTABLE. PROVIDE LADDERS, TWO–WAY RADIOS AND SUFFICIENT PERSONNEL TO CONDUCT ALL TEST WITH MINIMAL AMOUNT OF TIME.
19. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.
20. THE TECHNICIANS WHO MAKE CONNECTIONS TO (OR PERFORM ANY PROGRAMMING FOR) THE FIRE ALARM SYSTEM ARE REQUIRED TO BE TRAINED AND INDIVIDUALLY CERTIFIED BY THE MANUFACTURER, FOR THE FACU MODEL & SERIES BEING INSTALLED. THIS TRAINING AND CERTIFICATION MUST HAVE OCCURRED WITHIN THE MOST RECENT 24 MONTHS.
21. AT THE CONCLUSION OF THIS PROJECT, THE FIRE ALARM SYSTEM WILL BE TESTED AND RE–CERTIFIED IN ACCORDANCE WITH THE 2013 EDITION OF NFPA 72 SECTION 14.4.2.

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PROJECT NO. 223009
PROJECT MGR. D. HAM
DRAWN BY D. HILL

REVISIONS:

#	DESC:	DATE

DRAWN BY: JO
PROJECT #: 22015
ISSUE DATE: 07/21/23

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
FIRE ALARM NOTES

FA2.02