

SITE DATA		
NAME:	LAKE MYRA COUNTY PARK	
OWNER:	WAKE COUNTY	
DEVELOPER:	WAKE COUNTY	
CONTACT:	ERIC STAEHLE PLA, ASLA, SENIOR FACILITIES PROJECT MANAGER	
ADDRESS:	WAKE COUNTY OFFICE BUILDING, 11th FLOOR, RALEIGH, NC 27602	
PHONE NUMBER:	919.856.6369	
PROPERTY ADDRESS: PARCEL ID NUMBER (PIN): DEED BOOK AND PAGE: ZONING DISTRICT:	<u>WESTERN PARCEL:</u> 0 S SMITHFIELD ROAD 1763-51-9788 DB: 12448, PG: 2075 WAKE COUNTY, ZONED R-40	<u>EASTERN PARCEL:</u> 10505 POOLE ROAD 1763-84-1077 DB: 12590, PG: 1251 WENDELL, ZONED R3
TOTAL LAND AREA:	91.81 ACRES	125.76 ACRES
PROPOSED DISTURBED AREA:	6.5 ACRES	12 ACRES
CURRENT USE:	UNDEVELOPED	UNDEVELOPED
PROPOSED USE:	PARK/RECREATION FACILITY	PARK/RECREATION FACILITY
EXISTING IMPERVIOUS AREA:		
PROPOSED IMPERVIOUS AREA:		
PROPOSED BUILDING:		
FLOOD INFORMATION:		
WATER AND SEWER SERVICE:		
ELECTRICAL SERVICE:		

Landscape Architect / Prime Consultant:
Susan Hatchell Landscape Architecture, PLLC
711 W. North Street
Raleigh, NC 27603
T: (919) 838-9600

Civil Engineer, Site Structural, and Surveyor:
NV5
3300 Regency Parkway, Suite 100
Cary, NC 27518

Architect:
Esse Architects
632 Pershing Road
Raleigh, NC 27608

Building Structural Engineer:
Lynch Mykins Structural Engineers, PC
301 N. West Street, Suite 105
Raleigh, NC 27603

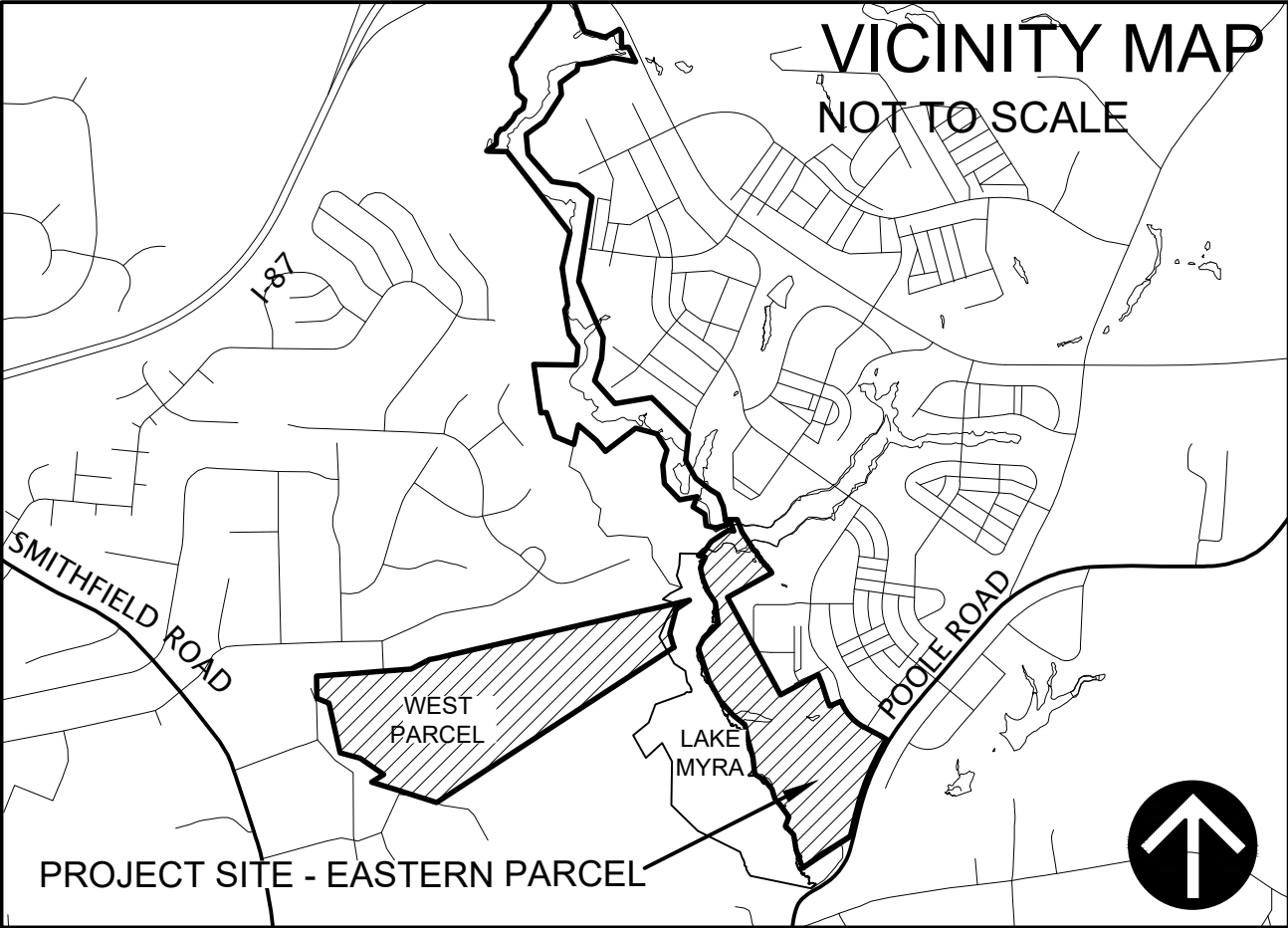
MEP Engineer:
The Wooten Company
120 N Boylan Avenue
Raleigh, NC 27603

LAKE MYRA COUNTY PARK

WEST PARCEL SHELTER AND WELL HOUSE

Wake County, North Carolina

JULY 27, 2026 – CONSTRUCTION DOCUMENT SET



SHEET INDEX

COVER SHEET

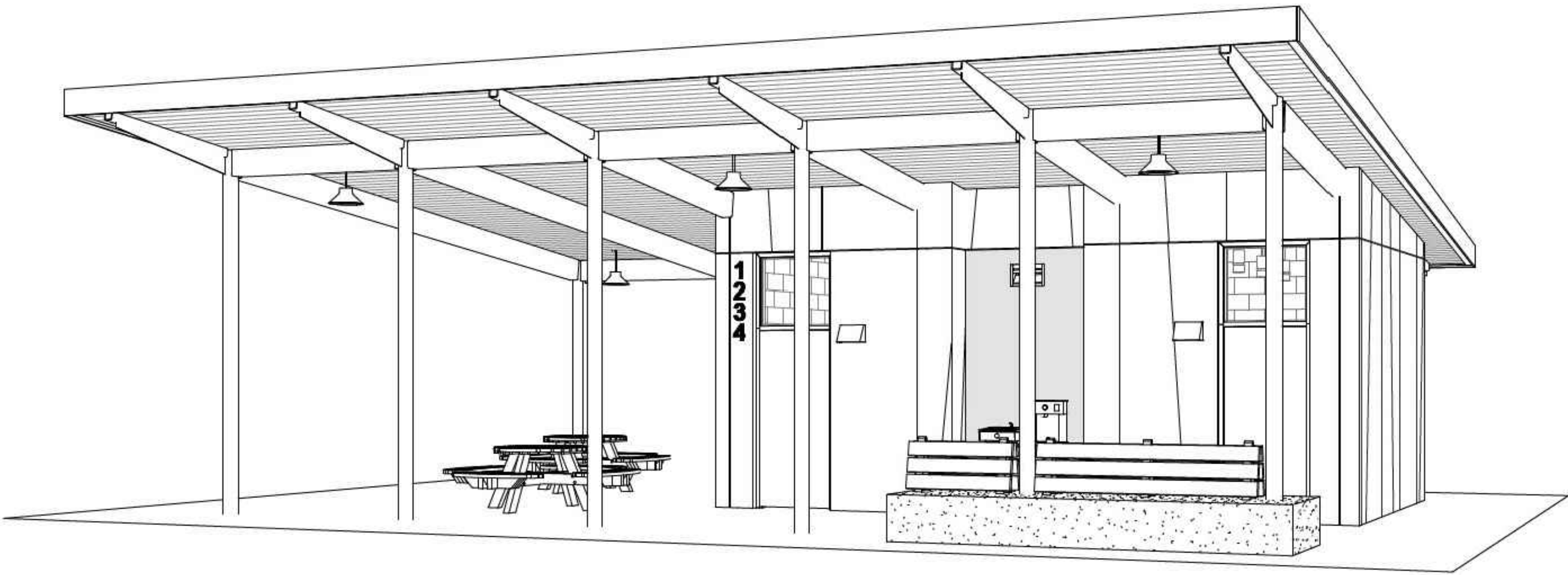
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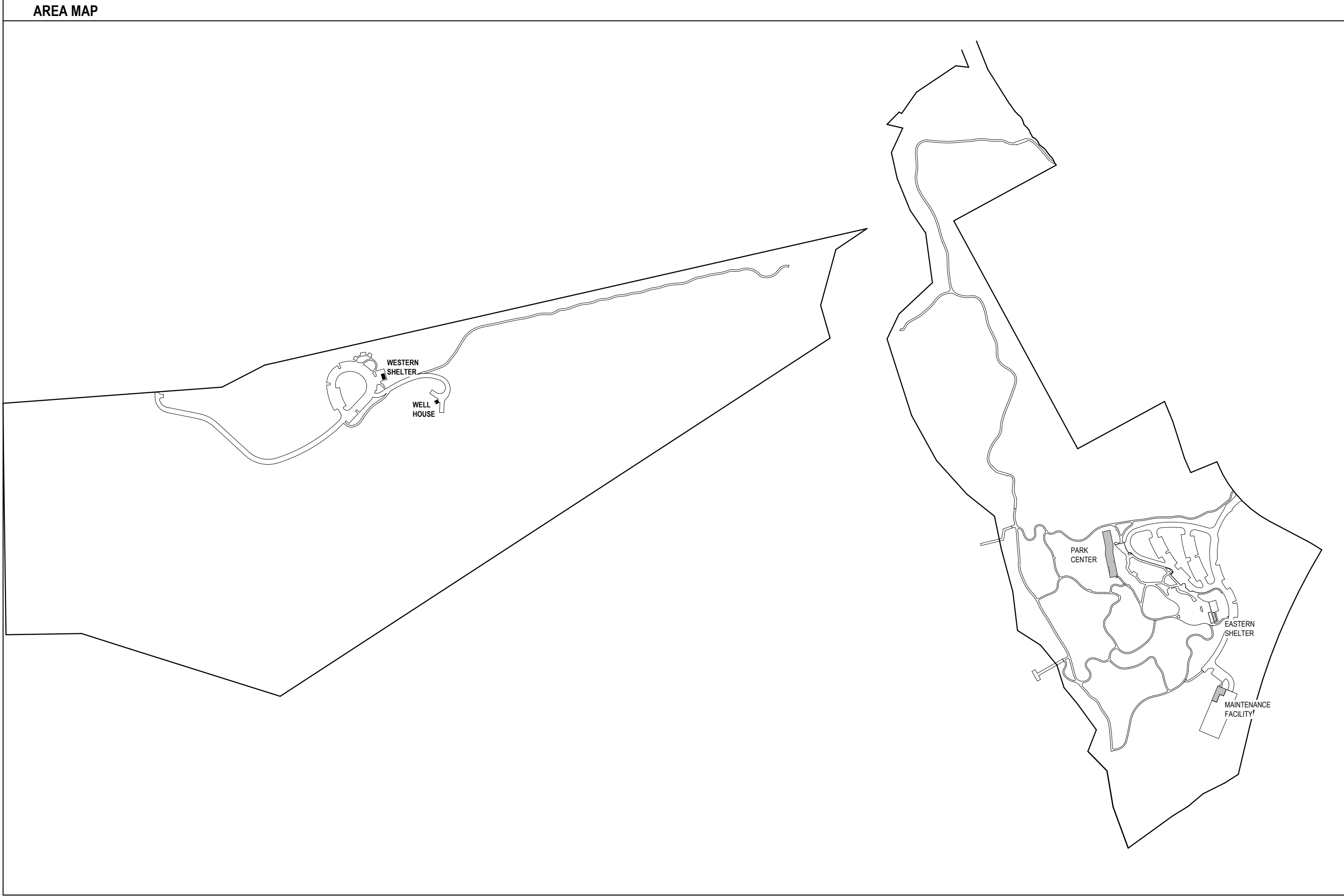
Susan Hatchell
Landscape Architecture, PLLC

Esse Architects

lynchmykins
MEG

N|V|5 Delivering Solutions
Improving Lives

Wooten



ABBREVIATIONS	
ABBR.	FULL DESCRIPTION
@	AT
A/C	AIR CONDITION(ER)(ING)
AB	AIR BARRIER
ACC	ACCESSIBLE
ACM	ALUMINUM COMPOSITE MATERIAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BLKG	BLOCKING
BOS	BOTTOM OF STEEL
BRG	BEARING
CG	CORNERGUARD
CJ	CONTROL JOINT
CL	CENTERLINE
CLB	CEILING
CLR	CLEAR/CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CW	CURTAIN WALL
DEMO	DEMOLISH(ITION)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC	ELECTRICAL
EOD	EDGE OF DECK
EOS	EDGE OF STEEL
EQ	EQUAL
EW	ELECTRIC WATER COOLER
EXST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH

ABBREVIATIONS	
ABBR.	FULL DESCRIPTION
FLR	FLOOR
FPRF	FIREPROOFING
FRT	FIRE RETARDANT TREATED
FT	FOOT/FEET
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GW	GYPSUM WALLBOARD
GYP	GYPSUM
HGT	HEIGHT
HM	HOLLOW METAL
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
INFO	INFORMATION
INT	INTERIOR
JT	JOINT
LAV	LAVATORY
LB	POUND
LH	LEFT HAND
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NC	NON-COMBUSTIBLE
NCSBC	NORTH CAROLINA STATE BUILDING CODE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OM	ORNAMENTAL METAL
OPP	OPPOSITE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PME	PLUMBING/MECHANICAL/ELECTRICAL
PT	PRESSURE-TREATED
PVC	POLYVINYL CHLORIDE
PWD	PLYWOOD
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER

ABBREVIATIONS	
ABBR.	FULL DESCRIPTION
REF	REFRIGERATOR
REINF	REINFORCE(D)(ING)(MENT)
REQ	REQUIRED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCW	SOLID CORE WOOD
SF	SQUARE FOOT/FEET
SFT	STOREFRONT
SIM	SIMILAR
SPEC	SPECIFICATION
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SUSP	SUSPENDED
T&G	TONGUE AND GROOVE
THRU	THROUGH
TLT	TOILET
TOBB	TOP OF BOND BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TSTAT	THERMOSTAT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
W/	WITH
WI/	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WT	WEIGHT
WWF	WELDED WIRE FABRIC

MATERIAL LEGEND	
CMU	
BATT INSULATION	
WOOD	
BRICK	
STEEL	
GROUT, MORTAR, SAND, OR PRECAST	
ALUMINUM	
CONCRETE	
CARPET	
SOIL FILL	
ROCK FILL	
GYPSUM BOARD	
RIGID INSULATION	
PLYWOOD	
WOOD BLOCKING (CONTINUOUS)	
WOOD BLOCKING (INTERRUPTED)	

SYMBOL LEGEND	
ROOM NAME AND NUMBER	
DOOR NUMBER	
WALL TYPE	
WINDOW TYPE	
BUILDING ELEVATION	
INTERIOR ELEVATION	
BUILDING SECTION	
WALL SECTION	
EGRESS ARROW	
COLUMN BUBBLE	
PLAN OR SECTION DETAIL	
NORTH ARROW	

GENERAL NOTES	
1.	GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
2.	REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
3.	CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS AND SHALL OBTAIN WRITTEN CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
4.	SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION.
5.	OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION, UNLESS OTHERWISE DIRECTED. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES WITH NIC ITEMS.
6.	COORDINATE TELECOMMUNICATIONS, DATA, AND SECURITY SYSTEM INSTALLATIONS.
7.	DO NOT SCALE DRAWINGS; WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
8.	PROVIDE A PORTABLE FIRE EXTINGUISHER WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL FIRE EXTINGUISHERS AS REQUIRED BY FIRE OR BUILDING FIELD INSPECTORS.
9.	PROVIDE ILLUMINATED EXIT SIGN OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY FIRE OR BUILDING FIELD INSPECTORS. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. SEE ELECTRICAL DRAWINGS.
10.	PRIOR TO CORING SLAB FOR FLOOR POWER OR DATA, OR POURING AROUND POWER/DATA LOCATIONS, REVIEW LOCATIONS WITH ARCHITECT AND OWNER.
11.	GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
12.	MAINTAIN INTEGRITY OF FIRE RESISTANCE RATING OF ALL RATED SHAFT ENCLOSURES AND RATED PARTITIONS BEHIND RECESSED WALL ACCESSORIES, SUCH AS FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, AND ELECTRICAL BOXES.
13.	NO EXPOSED CONDUIT, WIRING, PIPING, OR BOXES ARE PERMITTED WITHOUT ARCHITECT AND OWNER APPROVAL, UNLESS SPECIFICALLY NOTED OTHERWISE.
14.	GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION BETWEEN THE TRADES PROVIDING SYSTEMS IN OPEN CEILING CONDITIONS. COORDINATION DRAWINGS AND ANY CONFLICTS ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
15.	REFER TO THE PROJECT MANUAL FOR COMPLETE GENERAL REQUIREMENTS AND CONDITIONS OF THE CONTRACT. THE PROJECT MANUAL SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE EVENT OF A CONFLICT.
16.	IF PROVIDED, REFER TO ENLARGED PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
17.	TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED AT ALL APPROPRIATE LOCATIONS WHETHER OR NOT SPECIFICALLY REFERENCED AT EACH LOCATION.
18.	IN AREAS OF HARD CEILING, BUILDING SYSTEMS SHALL BE CONFIGURED TO AVOID OR MINIMIZE ABOVE-CEILING ACCESS. THE LOCATION OF ALL ACCESS DOORS MUST BE COORDINATED WITH AND APPROVED BY ARCHITECT PRIOR TO THE INSTALLATION OF ANY ABOVE-CEILING EQUIPMENT, DAMPERS, VALVES, JUNCTION BOXES, ETC. ANY ACCESS DOORS OR PANELS REQUIRED IN WALLS MUST ALSO BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF THE EQUIPMENT REQUIRING ACCESS.
19.	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS AND TAKE-OFFS FOR MATERIAL ORDERS.
20.	VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/8" FOR EVERY 10'-0" (U.O.N.) SHALL BE LEVELED BY CONTRACTOR.

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ABBREVIATIONS,
SYMBOLS, AND
GENERAL NOTES

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26

WS-G001

2018 APPENDIX B - WESTERN SHELTER
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: LAKE MYRA COUNTY PARK
ADDRESS: WESTERN PARCEL - 0 S MITHFIELD ROAD, KNIGHTDALE, NC 27545

OWNER: ERIC STAEHLE PHONE #: (919)856-6369 E-MAIL: eric.staehle@wake.gov
AUTHORIZED AGENT: JENNIFER STEED PHONE #: (919)845-8397 E-MAIL: jennifer@susanhatchell.com

OWNED BY: ☐ COUNTY ☐ PRIVATE ☐ STATE
CITY: RALEIGH, NC COUNTY: WAKE STATE

CONTACT: JENNIFER STEED, SUSAN HATCHELL LANDSCAPE ARCHITECTURE

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	EMAIL
ARCHITECTURAL	ESSE ARCHITECTS	MIRANDA POTTHOFF	11663	(919)270-6455	miranda@esse-architects.com
LANDSCAPE	SUSAN HATCHELL LANDSCAPE ARCH.	SUSAN HATCHELL	528	(919)845-8397	susan@susanhatchell.com
CIVIL	NVS	MICHAEL ALLEN	22514	(919)858-1888	michael.allen@nvs.com
ELECTRICAL	THE WOOTEN COMPANY	ROBERT EGAN	16765	(919)828-0531	began@thewootencompany.com
FIRE ALARM	THE WOOTEN COMPANY	ROBERT EGAN	16765	(919)828-0531	began@thewootencompany.com
PLUMBING	THE WOOTEN COMPANY	SCOTT ENNIS	029728	(919)828-0531	sennis@sigmaes.com
MECHANICAL	THE WOOTEN COMPANY	SCOTT ENNIS	029728	(919)828-0531	sennis@sigmaes.com
SPRINKLER	N/A				
STRUCTURAL	LYNCH MYKINS / IMEG	SCOTT FRANCIS	044986	(757) 502-8527	scott.m.francis@imegcorp.com
RETAINING WALLS	N/A				

2018 NC BUILDING CODE: ☐ NEW CONSTRUCTION ☐ PHASED CONSTRUCTION
☐ 1ST TIME INTERIOR COMPLETION ☐ RENOVATION
☐ SHELL/CORE ☐ ADDITION

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

CONSTRUCTED N/A CURRENT OCCUPANCY (CHAPTER 3) N/A
RENOVATED N/A PROPOSED OCCUPANCY (CHAPTER 3) N/A
OCCUPANCY CATEGORY: (TABLE 1604.5) CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA

CONSTRUCTION TYPE: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☐ II-B ☐ III-B

SPRINKLERS: ☐ N/A ☐ YES ☐ NO ☐ PARTIAL
☐ N/A ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13 D

STANDPIPES: ☐ NO ☐ CLASS 1 WET ☐ CLASS 1 DRY ☐ CLASS II WET ☐ CLASS II DRY
☐ CLASS III WET ☐ CLASS III DRY

FIRE DISTRICT: ☐ NO ☐ YES FLOOD HAZARD AREA: ☐ NO ☐ YES

SPECIAL INSPECTIONS REQUIRED: ☐ NO ☐ YES

GROSS BUILDING AREA TABLE:			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6TH FLOOR	N/A	N/A	N/A
5TH FLOOR	N/A	N/A	N/A
4TH FLOOR	N/A	N/A	N/A
3RD FLOOR	N/A	N/A	N/A
2ND FLOOR	N/A	N/A	N/A
MEZZANINE	N/A	N/A	N/A
1ST FLOOR	N/A	1,584	1,584
BASEMENT	N/A	N/A	N/A
TOTAL			1,584

ALLOWABLE AREA

PRIMARY OCCUPANCY: 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 ☐ I-1 CONDITION 2 ☐ I-2 CONDITION 1 ☐ I-2 CONDITION 2
I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ I-4

MERCANTILE ☐ RESIDENTIAL ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE ☐ S-1 ☐ S-1 HIGH PILED ☐ S-2 ☐ S-2 HIGH-PILED ☐ STORAGE GARAGE OPEN
☐ UTILITY AND MISCELLANEOUS ☐ REPAIR GARAGE ☐ PARKING GARAGE ENCLOSED

ACCESSORY OCCUPANCY CLASSIFICATION: N/A
INCIDENTAL USES: TABLE 509 N/A
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): N/A
SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS): N/A
MIXED OCCUPANCY: ☐ NO ☐ YES SEPARATION: 0 EXCEPTION

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B <= 1
ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE	(D) AREA FOR SPRINKLER INCREASE	(E) ALLOWABLE AREA OR UNLIMITED	(F) MAXIMUM BUILDING AREA ¹
1	ASSEMBLY A-3	1,584	9,500	75%	0%	16,625	33,250

OCCUPANCY A-3 IS THE MOST RESTRICTIVE AND CONTROLS.

- FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = 298 FT
B. TOTAL BUILDING PERIMETER = 160 FT (P)
C. RATIO (FP) = 160 / 160 = 1 (FP)
D. W = MINIMUM WIDTH OF PUBLIC WAY = 30 FT (W)
E. PERCENT OF FRONTAGE INCREASE 1 = 100 [160 / 160 - 0.25] x 30/30 = 75 (%)
- UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
- MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN BUILDING X D (MAXIMUM 2 STORIES) (504.4)
- THE MAXIMUM AREA OF PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.
- FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
BLDG HEIGHT IN FEET	TABLE 504.3 ²	55	16' TABLE 504.3
BLDG HEIGHT IN STORIES	TABLE 504.4 ³	2	1 TABLE 504.4

¹ PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
² THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
³ THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCL. COLUMNS, GIRDERS, TRUSSES	OVER 30'	0	0				
BEARING WALLS							
EXTERIOR							
NORTH	OVER 30'	0	0				
EAST	OVER 30'	0	0				
WEST	OVER 30'	0	0				
SOUTH	OVER 30'	0	0				
INTERIOR							
NON-BEARING WALLS & PARTITIONS							
EXTERIOR		N/A	N/A				
NORTH	OVER 30'	N/A	N/A				
EAST	OVER 30'	N/A	N/A				
WEST	OVER 30'	N/A	N/A				
SOUTH	OVER 30'	N/A	N/A				
INTERIOR WALLS & PARTITIONS	N/A	N/A	N/A				
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		N/A	0				
FLOOR CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING FLOORS		0	0				
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		N/A	0				
ROOF CEILING ASSEMBLY		N/A	0				
COLUMNS SUPPORTING ROOF		N/A	0				
SHAFT ENCLOSURES - EXIT		N/A	0				
SHAFT ENCLOSURES - OTHER		N/A	0				
CORRIDOR SEPARATION		N/A	0				
OCCUPANCY/FIRE BARRIER SEPARATION		N/A	0				
PARTY/FIRE WALL SEPARATION		N/A	0				
SMOKE BARRIER SEPARATION		N/A	0				
SMOKE PARTITION		N/A	0				
TENANT/DWELLING UNITS/SLEEPING UNIT SEPARATION		N/A	0				
INCIDENTAL USE SEPARATION		N/A	0				

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEP DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
OVER 30'	NO LIMIT		

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 # NONE PROVIDED - ALL DOORS OPEN DIRECTLY TO THE EXTERIOR - SEE WS-A101

☐ FIRE AND/OR SMOKE WALL LOCATIONS (CHAPTER 7) N/A

☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN) N/A

☐ 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 CALCULATIONS (TABLE 1004.1.2) N/A

☐ OCCUPANT LOADS FOR EACH AREA N/A

☐ EXIT ACCESS TRAVEL DISTANCES (1017) N/A

☐ COMMON PATH OF TRAVEL DISTANCES (TABLES 1006.2.1 & 1006.3.2(1)) N/A

☐ DEAD END LENGTHS (1020.4) N/A

☐ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR N/A

☐ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3) N/A

☐ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR N/A

☐ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND /OR ROOF STRUCTURE IS PROVIDED FOR OCCUPANCY SEPARATION N/A

☐ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) N/A

☐ 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 NONE

ACCESSIBLE/DWELLING UNITS (SECTION 1107) <u>N/A</u>						
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) - SEE COVER SHEET OF WESTERN PARCEL SITE DRAWING SET.					
LOT OR PARKING AREA	TOTAL # PARKING REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE UNITS PROVIDED	
SHELTER	21	68	REGULAR W/ 5' ACCESS AISLE		
PLAYGROUND	3	STANDARD SPACES	132" ACC. AISLE	8' ACC. AISLE	1
OPEN PLAY	5				3 ACCESSIBLE SPACES
TOTAL	29	68	2	1	3

PARKING SPACES LISTED HERE INCLUDES ALL STANDARD VEHICLE SPACES REQUIRED AND PROVIDED FOR THE WESTERN PARCEL. SEE SHEET COVERSHEET OF WESTERN PARCEL SITE DRAWING SET FOR ADDITIONAL PARKING INFO.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) WESTERN SHELTER ONLY											
USE	WATER CLOSETS			URINALS	LAVATORIES			SHOWERS & TUBS		DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	MALE	FEMALE	REGULAR	ACCESSIBLE
PICNIC AREA	27	52			.17	.17					
REQUIRED	1	1	0	0	1	1	0	0	0	1	1
PROVIDED	1	1	2*	0	1	1	2*	0	0	2	1

*2 UNISEX TOILET ROOMS ARE PROVIDED IN LIEU OF SEPARATE FACILITIES. BOTH ARE FULLY ACCESSIBLE.

SPECIAL APPROVALS
LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ETC., DESCRIBE BELOW.

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 FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ YES (REMAINDER OF THIS SECTION IS NOT APPLICABLE) ☐ NO
EXEMPT BUILDING: ☐ YES ☐ NO PROVIDE CODE OR STATUTORY REFERENCE:
CLIMATE ZONE: ☐ N/A ☐ 3A ☐ 4A ☐ 5A
METHOD COMPLIANCE: ☐ ENERGY CODE PERFORMANCE ☐ ENERGY CODE PRESCRIPTIVE ☐ OTHER - PERFORMANCE
☐ ASHRAE 90.1 PERFORMANCE ☐ ASHRAE 90.1 PRESCRIPTIVE ☐

IF OTHER SPECIFY SOURCE HERE)

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY - STANDING SEAM SEE WS-A421 THROUGH WS-A422: STANDING SEAM ROOF / MIN. R-30
DESCRIPTION OF ASSEMBLY: CONTINUOUS RIGID INSULATION / NOMINAL 2" WOOD DECK
U-VALUE OF TOTAL ASSEMBLY: U-0.02
R-VALUE OF INSULATION: MIN. R-30 CONTINUOUS INSULATION, R-43 SHOWN IN DETAILS
SKYLIGHTS IN EACH ASSEMBLY: N/A
U-VALUE OF SKYLIGHT: N/A
SKYLIGHTS AREA IN EACH ASSEMBLY: N/A

EXTERIOR WALLS - FIBER CEMENT CLADDING SEE WS-A421 THROUGH WS-A422: 8" CMU / AIR-WEATHER BARRIER / MIN. R-10 CONT. RIGID INSULATION / AIRSPACE / FIBER CEMENT CLADDING
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY: U-0.05
R-VALUE OF INSULATION: R-10 CONTINUOUS INSULATION, R-15 SHOWN IN DETAILS
OPENINGS (WINDOWS & DOORS):
U-VALUE OF ASSEMBLY: U-0.45
SOLAR HEAT GAIN COEF: 0.25
PROJECTION FACTOR: 0.00
DOOR R-VALUES: HOLLOW METAL - R-2.0

WALLS ADJACENT TO UNCONDITIONED SPACE (EACH ASSEMBLY):
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
OPENINGS (WINDOWS & DOORS):
U-VALUE OF ASSEMBLY: N/A
SOLAR HEAT GAIN COEF:
PROJECTION FACTOR:
DOOR R-VALUES:
WALLS BELOW GRADE:
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
FLOORS - UNCONDITIONED:
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
FLOOR SLAB ON GRADE:
DESCRIPTION OF ASSEMBLY: SEE WS-A421 THROUGH WS-A422: 4" OR 6" CONCRETE ON A VAPOR BARRIER ON DRAINAGE STONE ON GRADE
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION: R-15 CONTINUOUS INSULATION
HORIZONTAL/VERTICAL REQMT: VERTICAL TO TOP OF FOOTING AT WALLS / 2'-0" HORIZONTAL AT ENTRANCES AND DOORS
SLAB HEATED: N/A

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (Is): ☐ 0.8 ☐ 1.0 ☐ 1.1 ☐ 1.2
SEISMIC (Is): ☐ 1.0 ☐ 1.25 ☐ 1.5
LIVE LOADS: ROOF 20 _PSF
MEZZANINE N/A _PSF
FLOOR 100 _PSF
GROUND SNOW LOAD: 15 _PSF
WIND LOAD: ULTIMATE WIND SPEED 116 MPH (ASCE-7)
EXPOSURE CATEGORY ☐ N/A ☐ B ☐ C ☐ D
SEISMIC DESIGN CATEGORY: ☐ N/A ☐ A ☐ B ☐ C ☐ D
PROVIDE THE FOLLOWING SEISMIC PARAMETERS:
RISK FACTOR (TABLE 1604.5): ☐ N/A ☐ I ☐ II ☐ III ☐ IV
SPECIAL RESPONSE ACCELERATION: Ss 14.9 %g S1 7.5 %g
SITE CLASSIFICATION (ASCE 7): ☐ N/A ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
DATA SOURCE: ☐ N/A ☐ FIELD TEST ☐ PRESUMPTIVE ☐ HISTORICAL DATA
BASIC STRUCTURAL SYSTEM: ☐ N/A ☐ BEARING WALL ☐ BLDG FRAME ☐ MOMENT FRAME
☐ DUAL W/ SPECIAL MOMENT FRAME ☐ INVERTED PENDULUM
☐ DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
☐ N/A ☐ SIMPLIFIED ☐ EQUIVALENT LATERAL FORCE ☐ DYNAMIC
ANALYSIS PROCEDURE: ☐ N/A ☐ YES ☐ NO
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: ☐ N/A ☐ EARTHQUAKE ☐ WIND
SOIL BEARING CAPACITIES: 2,500 PSF
PILE SIZE, TYPE & CAPACITY N/A

MECHANICAL DESIGN SEE MECHANICAL DRAWINGS
MECHANICAL SUMMARY: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: ☐ PERSPECTIVE ☐ ENERGY COST BUDGET
THERMAL ZONE: 4A WINTER DRY BULB: 19.7 DEGREES F
SUMMER DRY BULB: 95 DEGREES F
INTERIOR DESIGN COND: WINTER DRY BULB: 68 DEGREES F
SUMMER DRY BULB: 75 DEGREES F
RELATIVE HUMIDITY: 50 DEGREES F
BUILDING HEATING LOAD: 4.1 MBH
BUILDING COOLING LOAD: 0.49 TONS
MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY: DUCTLESS SPLIT SYSTEM FOR COOLING, FREEZE PROTECTION W/ ELECTRIC UNIT HEATERS
DESCRIPTION OF UNIT: SEE SCHEDULES ON M SHEETS
HEATING EFFICIENCY: SEE SCHEDULES ON M SHEETS
COOLING EFFICIENCY: SEE SCHEDULES ON M SHEETS
SIZE CATEGORY OF UNIT: SEE SCHEDULES ON M SHEETS
BOILER: SIZE CATEGORY: N/A IF OVERSIZED STATE REASON
CHILLER: SIZE CATEGORY: N/A IF OVERSIZED STATE REASON
LIST EQUIPMENT EFFICIENCIES: SEE M SHEETS

ELECTRICAL DESIGN SEE ELECTRICAL DRAWINGS
ELECTRICAL SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: ☐ ENERGY CODE PERFORMANCE ☐ ENERGY CODE PRESCRIPTIVE ☐ N/A
☐ ASHRAE 90.1 PERFORMANCE ☐ ASHRAE 90.1 PRESCRIPTIVE
LIGHTING SCHEDULE:
LAMP TYPE REQUIRED IN FIXTURE SEE FIXTURE SCHEDULE ON E SHEETS
NUMBER OF LAMPS IN FIXTURE SEE FIXTURE SCHEDULE ON E SHEETS
BALLAST TYPE USED IN THE FIXTURE SEE SPECIFICATIONS
NUMBER OF BALLASTS IN THE FIXTURE SEE SPECIFICATIONS
TOTAL WATTAGE PER FIXTURE VARIES - SEE FIXTURE SCHEDULE ON E SHEETS
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) 160 WATTS VS. 262 WATTS (WHOLE BUILDING)
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 197 WATTS VS 1060 WATTS
ADDITIONAL EFFICIENCY PACKAGE OPTIONS: (WHEN USING 2018 NCECC, NOT REQUIRED FOR ASHRAE 90.1)
☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
☐ C406.3 REDUCED LIGHTING POWER DENSITY
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ C406.5 ON-SITE RENEWABLE ENERGY
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

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CODE SUMMARY - SHELTER

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26
WS-G101

2018 APPENDIX B - WELL HOUSE
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: LAKE MYRA COUNTY PARK
ADDRESS: WESTERN PARCEL - 0 S SMITHFIELD ROAD, KNIGHTDALE, NC 27545

OWNER: ERIC STAEHLE PHONE #: (919)856-6369 E-MAIL: eric.staehle@wake.gov
ARCHITECTURAL AGENT: JENNIFER STEED PHONE #: (919)845-8397 E-MAIL: jennifer@susanhatchell.com

OWNED BY: ☐ COUNTY ☐ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ☐ CITY: RALEIGH, NC ☒ COUNTY: WAKE ☐ STATE

CONTACT: JENNIFER STEED, SUSAN HATCHELL LANDSCAPE ARCHITECTURE

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	EMAIL
ARCHITECTURAL	ESSE ARCHITECTS	MIRANDA POTTHOFF	11663	(919)270-6455	miranda@esse-architects.com
LANDSCAPE	SUSAN HATCHELL LANDSCAPE ARCH.	SUSAN HATCHELL	528	(919)845-8397	susan@susanhatchell.com
CIVIL	NV5	MICHAEL ALLEN	22514	(919)858-1888	michael.allen@nv5.com
ELECTRICAL	THE WOOTEN COMPANY	ROBERT EGAN	16765	(919)828-0531	began@thewootencompany.com
FIRE ALARM	THE WOOTEN COMPANY	ROBERT EGAN	16765	(919)828-0531	began@thewootencompany.com
PLUMBING	THE WOOTEN COMPANY	SCOTT ENNIS	029728	(919)828-0531	sennis@sigmaes.com
MECHANICAL	THE WOOTEN COMPANY	SCOTT ENNIS	029728	(919)828-0531	sennis@sigmaes.com
SPRINKLER	N/A				
STRUCTURAL	LYNCH MYKINS / IMEG	SCOTT FRANCIS	044996	(757) 502-8527	scott.m.francis@imegcorp.com
RETAINING WALLS	N/A				

2018 NC BUILDING CODE: ☒ NEW CONSTRUCTION ☐ PHASED CONSTRUCTION
☐ 1ST TIME INTERIOR COMPLETION ☐ RENOVATION
☐ SHELL/CORE ☐ ADDITION

2018 NC EXISTING BUILDING CODE: ☐ PRESCRIPTIVE ☐ REPAIR ☐ CHAPTER 14

ALTERATION: ☐ LEVEL I ☐ LEVEL II ☐ LEVEL III
☐ HISTORIC ☐ CHANGE OF USE

CONSTRUCTED N/A CURRENT OCCUPANCY (CHAPTER 3) N/A
RENOVATED N/A PROPOSED OCCUPANCY (CHAPTER 3) N/A
OCCUPANCY CATEGORY: (TABLE 1604.5) CURRENT: ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA

CONSTRUCTION TYPE: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☒ II-B ☐ III-B ☐ Y-B

SPRINKLERS: ☐ N/A ☒ YES ☒ NO ☐ PARTIAL
☒ N/A ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13 D

STANDPIPES: ☒ NO ☐ CLASS 1 WET ☐ CLASS 1 DRY ☐ CLASS II WET ☐ CLASS II DRY
☐ CLASS III WET ☐ CLASS III DRY

FIRE DISTRICT: ☒ NO ☐ YES FLOOD HAZARD AREA: ☒ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED: ☐ NO ☒ YES

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6TH FLOOR	N/A	N/A	N/A
5TH FLOOR	N/A	N/A	N/A
4TH FLOOR	N/A	N/A	N/A
3RD FLOOR	N/A	N/A	N/A
2ND FLOOR	N/A	N/A	N/A
MEZZANINE	N/A	N/A	N/A
1ST FLOOR	N/A	128	136
BASEMENT	N/A	N/A	N/A
TOTAL			136

ALLOWABLE AREA

PRIMARY OCCUPANCY: 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 ☐ I-1 CONDITION 2 ☐ I-2 CONDITION 1 ☐ I-2 CONDITION 2
I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ I-4

MERCANTILE ☐ RESIDENTIAL ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE ☐ S-1 ☐ S-1 HIGH PILED ☐ S-2 ☐ S-2 HIGH-PILED ☐ STORAGE GARAGE OPEN
☒ UTILITY AND MISCELLANEOUS ☐ REPAIR GARAGE ☐ PARKING GARAGE ENCLOSED

ACCESSORY OCCUPANCY CLASSIFICATION: N/A
INCIDENTAL USES: TABLE 509 N/A
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): N/A
SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS): N/A
MIXED OCCUPANCY: ☒ NO ☐ YES SEPARATION: 0 EXCEPTION

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B < .1
ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE	(D) AREA FOR SPRINKLER INCREASE	(E) ALLOWABLE AREA OR UNLIMITED	(F) MAXIMUM BUILDING AREA ¹
1	UTILITY	136	9,500	75%	0%	16,625	33,250

1. FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = 298 FT
B. TOTAL BUILDING PERIMETER = 68 FT (P)
C. RATIO (F/P) = 68 / 68 = 1 (F/P)
D. W = MINIMUM WIDTH OF PUBLIC WAY = 30 FT (W)
E. PERCENT OF FRONTAGE INCREASE $1 = 100 [68 / 68 - 0.25] \times 30 / 30 = 75 \%$
2. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
3. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN BUILDING X D (MAXIMUM 2 STORIES) (504.4)
4. THE MAXIMUM AREA OF PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.
5. FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

ALLOWABLE HEIGHT				
		ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
BLDG HEIGHT IN FEET	TABLE 504.3 ²	55	14'	TABLE 504.3
BLDG HEIGHT IN STORIES	TABLE 504.4 ³	2	1	TABLE 504.4

¹ PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
² THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
³ THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCL. COLUMNS, GIRDERS, TRUSSES	OVER 30'	0	0				
BEARING WALLS							
EXTERIOR							
NORTH	OVER 30'	0	0				
EAST	OVER 30'	0	0				
WEST	OVER 30'	0	0				
SOUTH	OVER 30'	0	0				
INTERIOR							
NON-BEARING WALLS & PARTITIONS							
EXTERIOR	N/A						
NORTH	OVER 30'	N/A					
EAST	OVER 30'	N/A					
WEST	OVER 30'	N/A					
SOUTH	OVER 30'	N/A					
INTERIOR WALLS & PARTITIONS	N/A	N/A	N/A				
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	N/A	0					
FLOOR CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING FLOORS		0	0				
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	N/A	0					
ROOF CEILING ASSEMBLY	N/A	0					
COLUMNS SUPPORTING ROOF	N/A	0					
SHAFT ENCLOSURES - EXIT	N/A	0					
SHAFT ENCLOSURES - OTHER	N/A	0					
CORRIDOR SEPARATION	N/A	0					
OCCUPANCY/FIRE BARRIER SEPARATION	N/A	0					
PARTY/FIRE WALL SEPARATION	N/A	0					
SMOKE BARRIER SEPARATION	N/A	0					
SMOKE PARTITION	N/A	0					
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION	N/A	0					
INCIDENTAL USE SEPARATION	N/A	0					

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEP DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
OVER 30'	NO LIMIT		

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 # NONE PROVIDED - ALL DOORS OPEN DIRECTLY TO THE EXTERIOR - SEE WS-A101

☐ FIRE AND/OR SMOKE WALL LOCATIONS (CHAPTER 7) N/A

☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN) N/A

☐ 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 CALCULATIONS (TABLE 1004.1.2) N/A

☐ OCCUPANT LOADS FOR EACH AREA N/A

☐ EXIT ACCESS TRAVEL DISTANCES (1017) N/A

☐ COMMON PATH OF TRAVEL DISTANCES (TABLES 1006.2.1 & 1006.3.2(1)) N/A

☐ DEAD END LENGTHS (1020.4) N/A

☐ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR N/A

☐ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3) N/A

☐ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR N/A

☐ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND /OR ROOF STRUCTURE IS PROVIDED FOR OCCUPANCY SEPARATION N/A

☐ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) N/A

☐ 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 NONE

ACCESSIBLE DWELLING UNITS (SECTION 1107) <u>N/A</u>						
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) - SEE COVER SHEET OF WESTERN PARCEL SITE DRAWING SET.					
LOT OR PARKING AREA	TOTAL # PARKING REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR W/ 8' ACCESS AISLE	VAN SPACE WITH 132" ACC. AISLE	TOTAL # ACCESSIBLE UNITS PROVIDED
SHELTER	21				
PLAYGROUND	3				
OPEN PLAY	5	68 STANDARD SPACES	2 ACCESSIBLE SPACES		1
TOTAL	29	68	2		3

PARKING SPACES LISTED HERE INCLUDES ALL STANDARD VEHICLE SPACES REQUIRED AND PROVIDED FOR THE WESTERN PARCEL. SEE SHEET COVERSHEET OF WESTERN PARCEL SITE DRAWING SET FOR ADDITIONAL PARKING INFO.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)				WELL HOUSE IS SERVED BY TOILETS AT THE WESTERN SHELTER. SEE WS-G101.			
USE	WATER CLOSETS	URINALS	LAVATORIES	SHOWERS & TUBS	DRINKING FOUNTAINS		
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE
REQUIRED							
PROVIDED							

SPECIAL APPROVALS
LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ETC., DESCRIBE BELOW.

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 FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ YES (REMAINDER OF THIS SECTION IS NOT APPLICABLE) ☐ NO
EXEMPT BUILDING: ☒ YES ☐ NO PROVIDE CODE OR STATUTORY REFERENCE: NC ENERGY CODE C402.1.1
CLIMATE ZONE: ☐ N/A ☐ 3A ☒ 4A ☐ 5A
METHOD COMPLIANCE: ☐ ENERGY CODE PERFORMANCE ☒ ENERGY CODE PRESCRIPTIVE ☐ OTHER - PERFORMANCE
☐ ASHRAE 90.1 PERFORMANCE ☐ ASHRAE 90.1 PRESCRIPTIVE ☐

(IF OTHER SPECIFY SOURCE HERE)

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 FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ YES (REMAINDER OF THIS SECTION IS NOT APPLICABLE) ☐ NO
EXEMPT BUILDING: ☒ YES ☐ NO PROVIDE CODE OR STATUTORY REFERENCE: NC ENERGY CODE C402.1.1
CLIMATE ZONE: ☐ N/A ☐ 3A ☒ 4A ☐ 5A
METHOD COMPLIANCE: ☐ ENERGY CODE PERFORMANCE ☒ ENERGY CODE PRESCRIPTIVE ☐ OTHER - PERFORMANCE
☐ ASHRAE 90.1 PERFORMANCE ☐ ASHRAE 90.1 PRESCRIPTIVE ☐

(IF OTHER SPECIFY SOURCE HERE)

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 FOR THE PROPOSED DESIGN.

WALLS ADJACENT TO UNCONDITIONED SPACE (EACH ASSEMBLY):
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: _____
OPENINGS (WINDOWS & DOORS):
U-VALUE OF ASSEMBLY: N/A
SOLAR HEAT GAIN COEF: _____
PROJECTION FACTOR: _____
DOOR R-VALUES: HOLLOW METAL - R-2.0

WALLS BELOW GRADE:
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: _____

FLOORS - UNCONDITIONED:
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: _____

FLOOR SLAB ON GRADE:
DESCRIPTION OF ASSEMBLY: SEE WS-A423: 4" OR 6" CONCRETE ON A VAPOR BARRIER ON DRAINAGE STONE ON GRADE
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: N/A
HORIZONTAL/VERTICAL REQMT: N/A
SLAB HEATED: N/A

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (Is): ☐ 0.8 ☒ 1.0 ☐ 1.1 ☐ 1.2
SEISMIC (Is): ☒ 1.0 ☐ 1.25 ☐ 1.5

LIVE LOADS:
ROOF 20 _PSF
MEZZANINE N/A _PSF
FLOOR 100 _PSF
GROUND SNOW LOAD: 15 _PSF

WIND LOAD: ULTIMATE WIND SPEED 116 MPH (ASCE-7)
EXPOSURE CATEGORY ☐ N/A ☒ B ☐ C ☐ D

SEISMIC DESIGN CATEGORY: ☐ N/A ☒ A ☐ B ☐ C ☐ D

PROVIDE THE FOLLOWING SEISMIC PARAMETERS:
RISK FACTOR (TABLE 1604.5): ☐ N/A ☐ I ☒ II ☐ III ☐ IV
SPECIAL RESPONSE ACCELERATION: S_s 11.2 % S_1 5.7 %

SITE CLASSIFICATION (ASCE 7): ☐ N/A ☐ A ☐ B ☒ C ☐ D ☐ E ☐ F

DATA SOURCE: ☐ N/A ☒ FIELD TEST ☐ PRESUMPTIVE ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM: ☐ N/A ☒ BEARING WALL ☐ BLDG FRAME ☒ MOMENT FRAME
☐ DUAL W/ SPECIAL MOMENT FRAME ☐ INVERTED PENDULUM
☐ DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
☐ N/A ☐ SIMPLIFIED ☒ EQUIVALENT LATERAL FORCE ☐ DYNAMIC

ANALYSIS PROCEDURE: ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: ☐ N/A ☐ YES ☒ NO
LATERAL DESIGN CONTROL: ☐ N/A ☐ EARTHQUAKE ☒ WIND
SOIL BEARING CAPACITIES: 2,500 PSF

PILE SIZE, TYPE & CAPACITY N/A

MECHANICAL DESIGN SEE MECHANICAL DRAWINGS

MECHANICAL SUMMARY: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: ☒ PRESCRIPTIVE ☐ ENERGY COST BUDGET

THERMAL ZONE: 4A
WINTER DRY BULB: 19.7 DEGREES F
SUMMER DRY BULB: 95 DEGREES F

INTERIOR DESIGN COND: WINTER DRY BULB: 40 DEGREES F
SUMMER DRY BULB: N/A
RELATIVE HUMIDITY: N/A

BUILDING HEATING LOAD: 1.5 MBH
BUILDING COOLING LOAD: N/A

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY: DESCRIPTION OF UNIT: FREEZE PROTECTION ONLY W/ ELECTRIC UNIT HEATERS
HEATING EFFICIENCY: SEE SCHEDULES ON M SHEETS
COOLING EFFICIENCY: SEE SCHEDULES ON M SHEETS
SIZE CATEGORY OF UNIT: SEE SCHEDULES ON M SHEETS

BOILER: SIZE CATEGORY: N/A
IF OVERSIZED STATE REASON

CHILLER: SIZE CATEGORY: N/A
IF OVERSIZED STATE REASON

LIST EQUIPMENT EFFICIENCIES: SEE M SHEETS

ELECTRICAL DESIGN SEE ELECTRICAL DRAWINGS

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: ☐ ENERGY CODE PERFORMANCE ☒ ENERGY CODE PRESCRIPTIVE ☐ N/A
☐ ASHRAE 90.1 PERFORMANCE ☐ ASHRAE 90.1 PRESCRIPTIVE

LIGHTING SCHEDULE:
LAMP TYPE REQUIRED IN FIXTURE SEE FIXTURE SCHEDULE ON E SHEETS
NUMBER OF LAMPS IN FIXTURE SEE FIXTURE SCHEDULE ON E SHEETS
BALLAST TYPE USED IN THE FIXTURE SEE SPECIFICATIONS
NUMBER OF BALLASTS IN THE FIXTURE SEE SPECIFICATIONS
TOTAL WATTAGE PER FIXTURE VARIES - SEE FIXTURE SCHEDULE ON E SHEETS
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) 75 WATTS VS. 115 WATTS (WHOLE BUILDING)
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 33 WATTS VS 620 WATTS

ADDITIONAL EFFICIENCY PACKAGE OPTIONS: (WHEN USING 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)
☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
☒ C406.3 REDUCED LIGHTING POWER DENSITY
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ C406.5 ON-SITE RENEWABLE ENERGY
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

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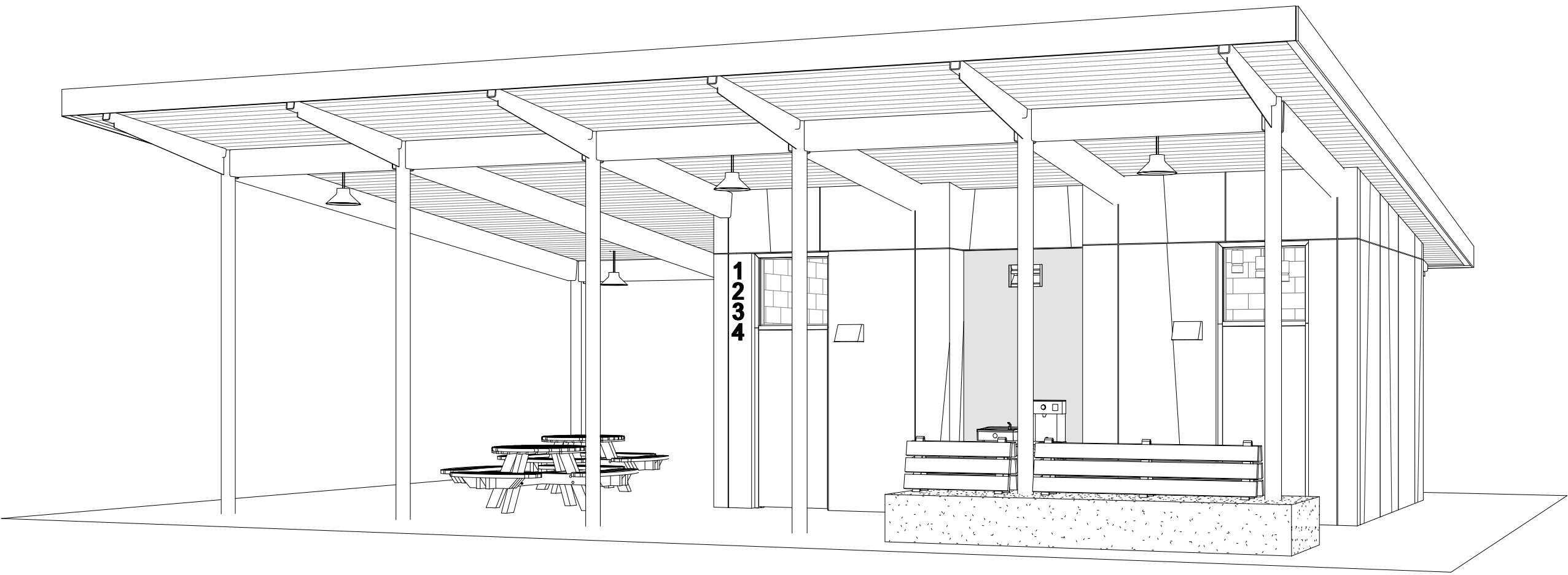
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CODE SUMMARY - WELL HOUSE

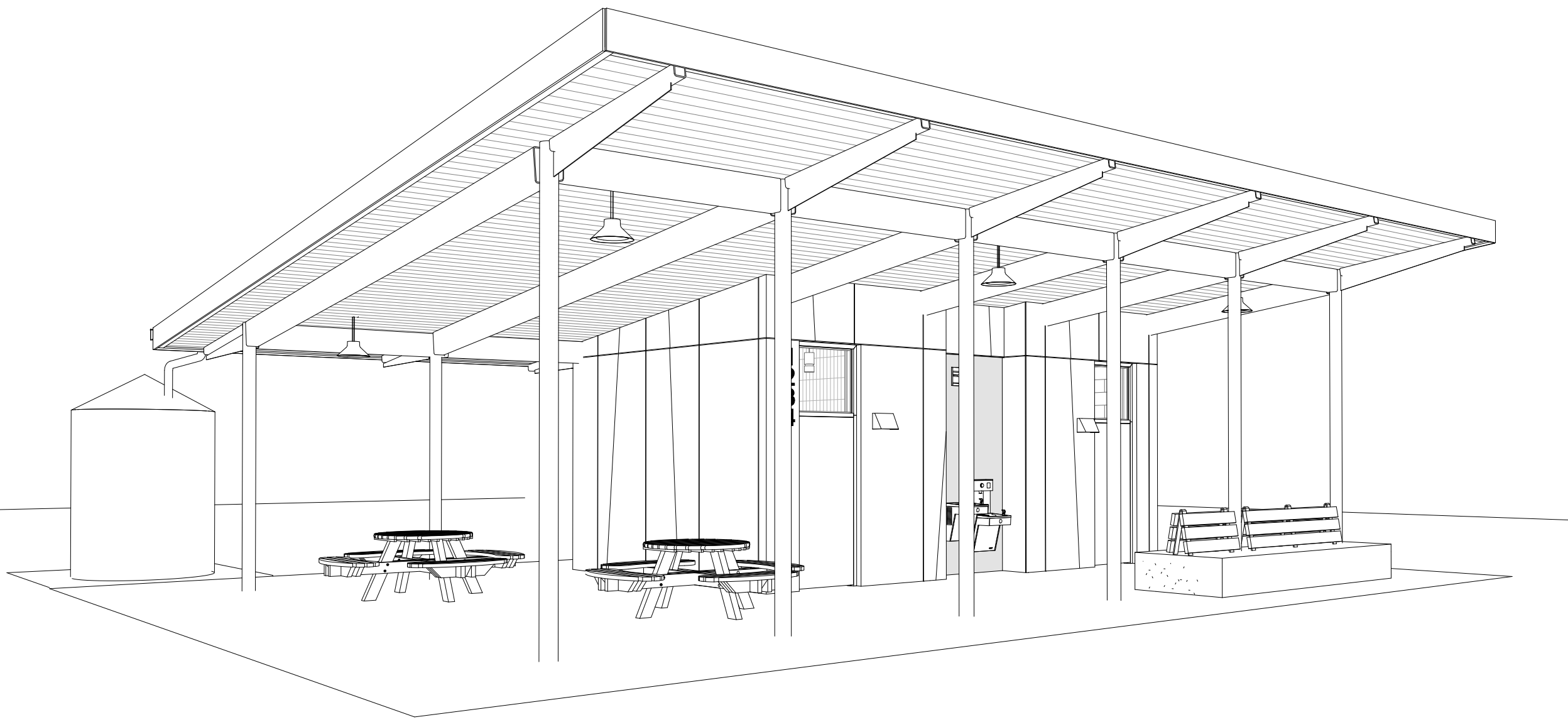
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

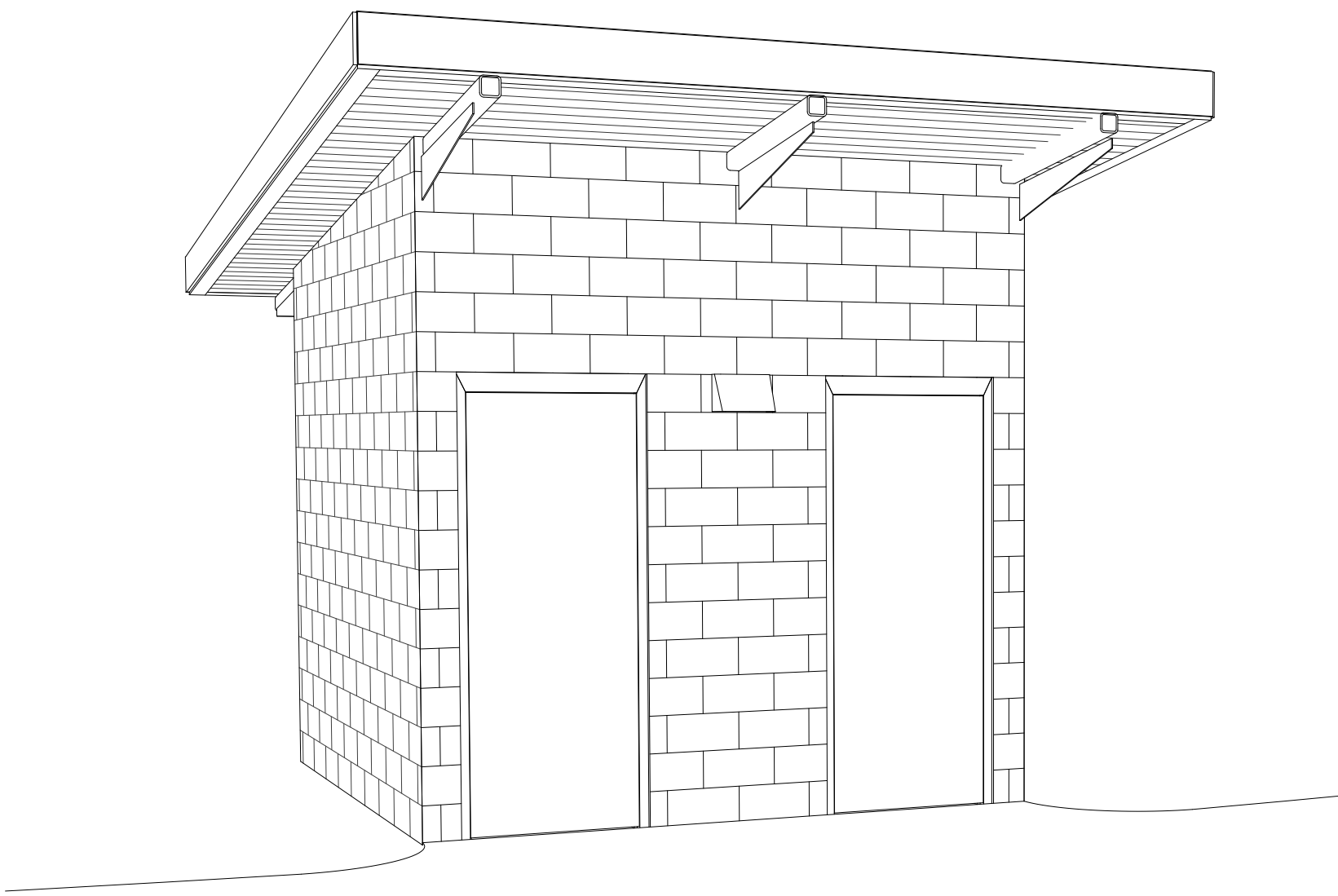
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WS-G102



1 WESTERN SHELTER FRONT



2 WESTERN SHELTER PICNIC VIEW



3 WELLHOUSE

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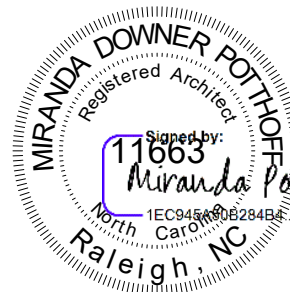


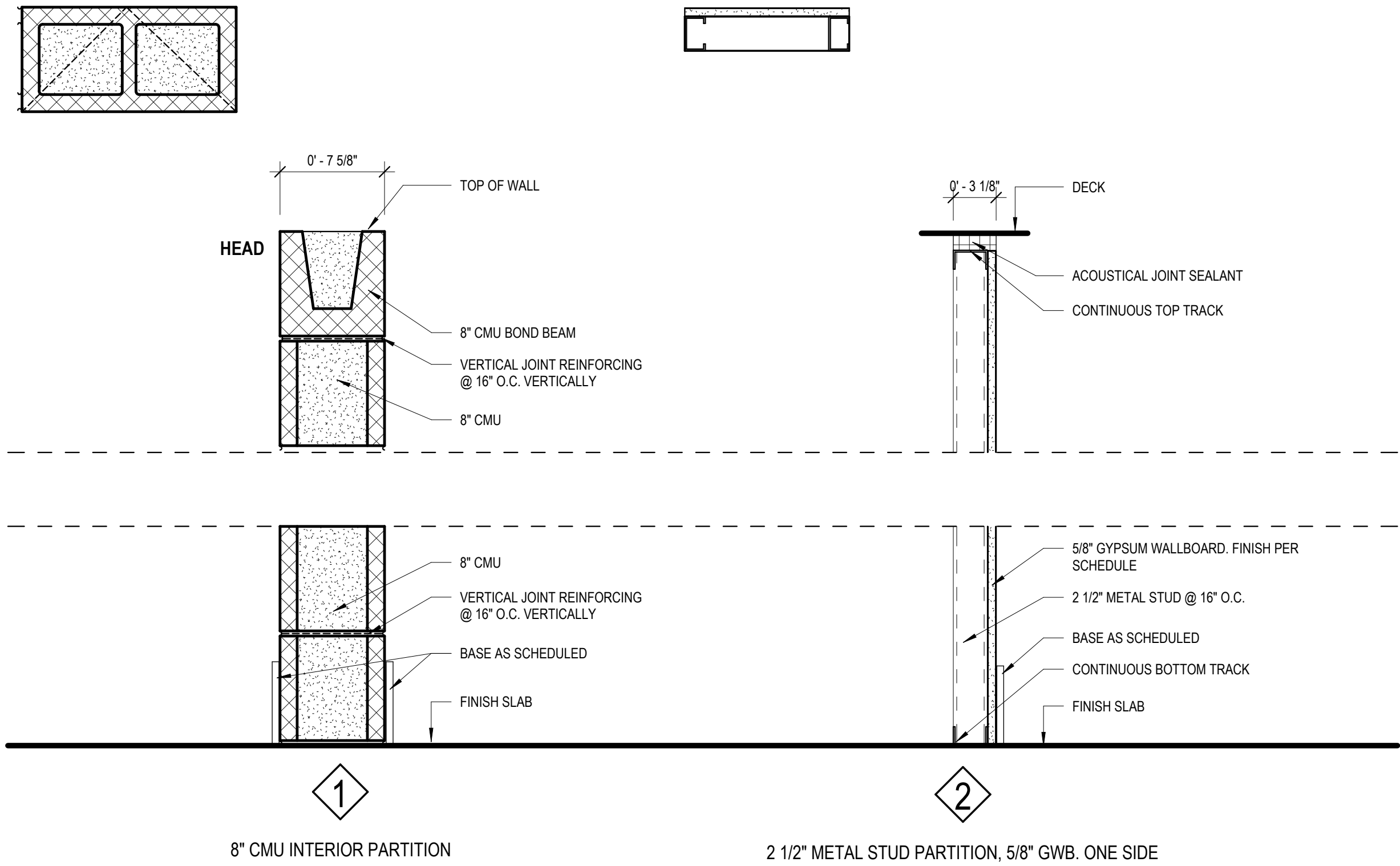
3D VIEWS

LAKE MYRA COUNTY PARK
Wake County, NC

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WS-A000





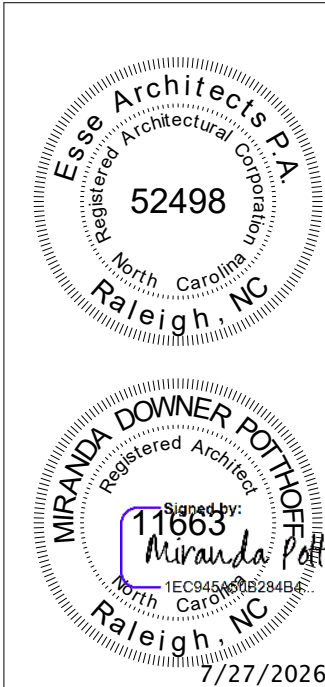
SYMBOL LEGEND	
	PARTITION TAG
GENERAL PARTITION NOTES	
1. COORDINATE ADJACENT WALLS OF DIFFERENT TYPES SO THAT GYP. BOARD WALL FACES ALIGN. RESILIENT CHANNELS TO BE ON THE SAME SIDE OF THE WALL. TYP.	
2. SEAL PERIMETER OF ALL WALLS. TYP. USE 5/8" CEMENTITIOUS TILE BACKING SHEETS IN LIEU OF 5/8" GWB BEHIND ALL WALL TILE. TYP.	
3. SEE FINISH SCHEDULE AND FINISH PLANS FOR WALL TILE AND WALL FINISHES.	

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PARTITIONS

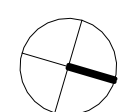
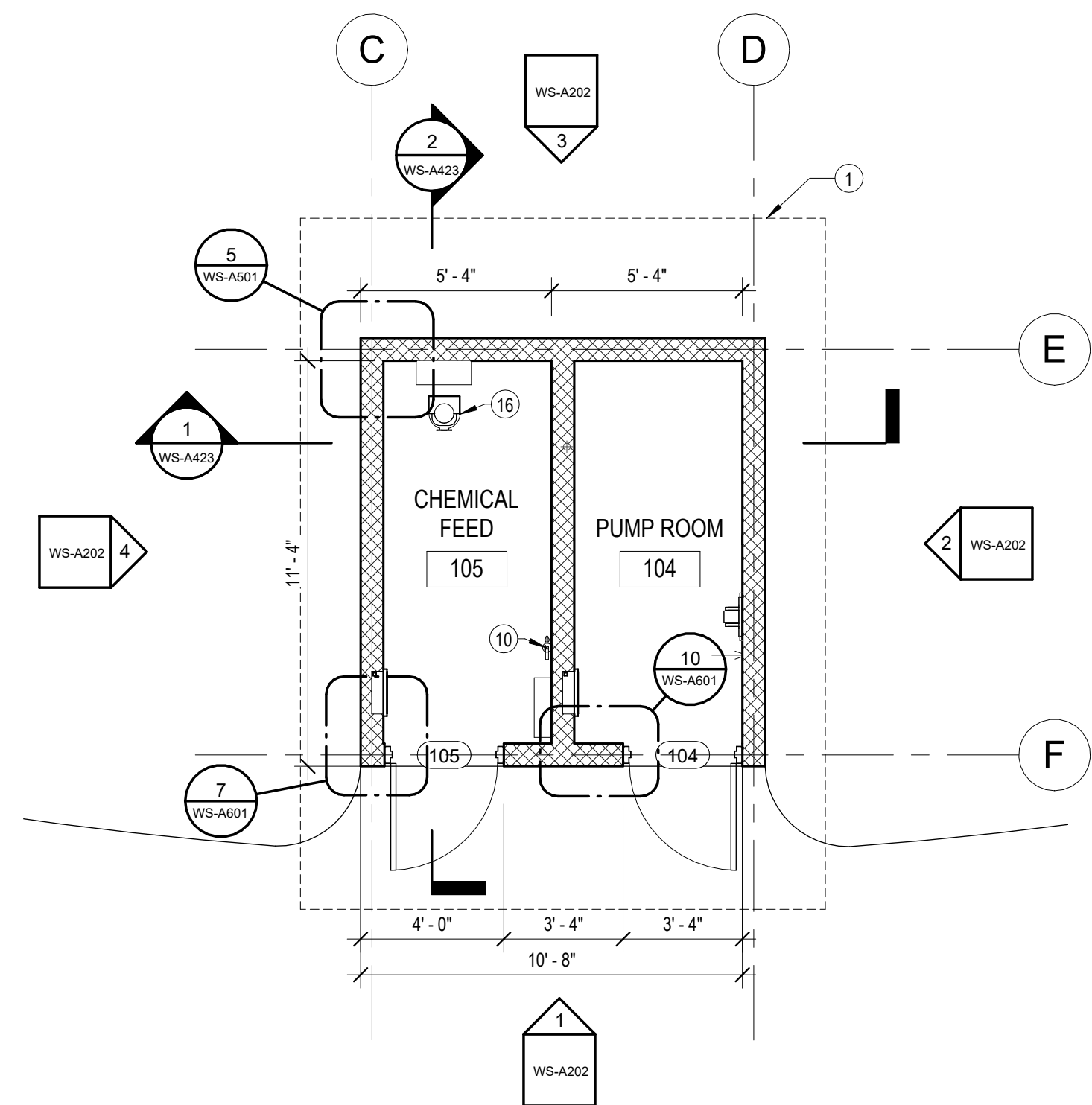
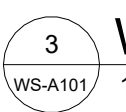
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WS-A001


$$1/8'' = 1'-0''$$

$$1/8'' = 1'-0''$$

$$1/4'' = 1'-0$$


WALL LEGEND	
	UNRATED CMU CONSTRUCTION
	PARTITION TAG

NOTES

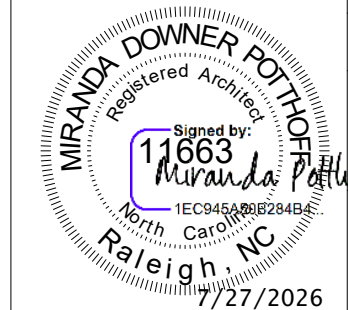
1. ALL MASONRY WALL DIMENSIONS ARE TO FACE OF BLOCK.
2. SEE DIMENSION PLAN FOR BUILDING SLAB CONTROL JOINT LOCATIONS DEPICTED BY HALFTONE LINES AND CJ.
3. SEE DIMENSION PLAN FOR WALL CONTROL JOINT LOCATIONS DEPICTED BY DARK LINES AND CJ.
4. FINISH WALL TO FLOOR FOR BASE ADHESION.
5. SEE ENLARGED PLANS FOR ADDITIONAL DETAIL LOCATIONS.

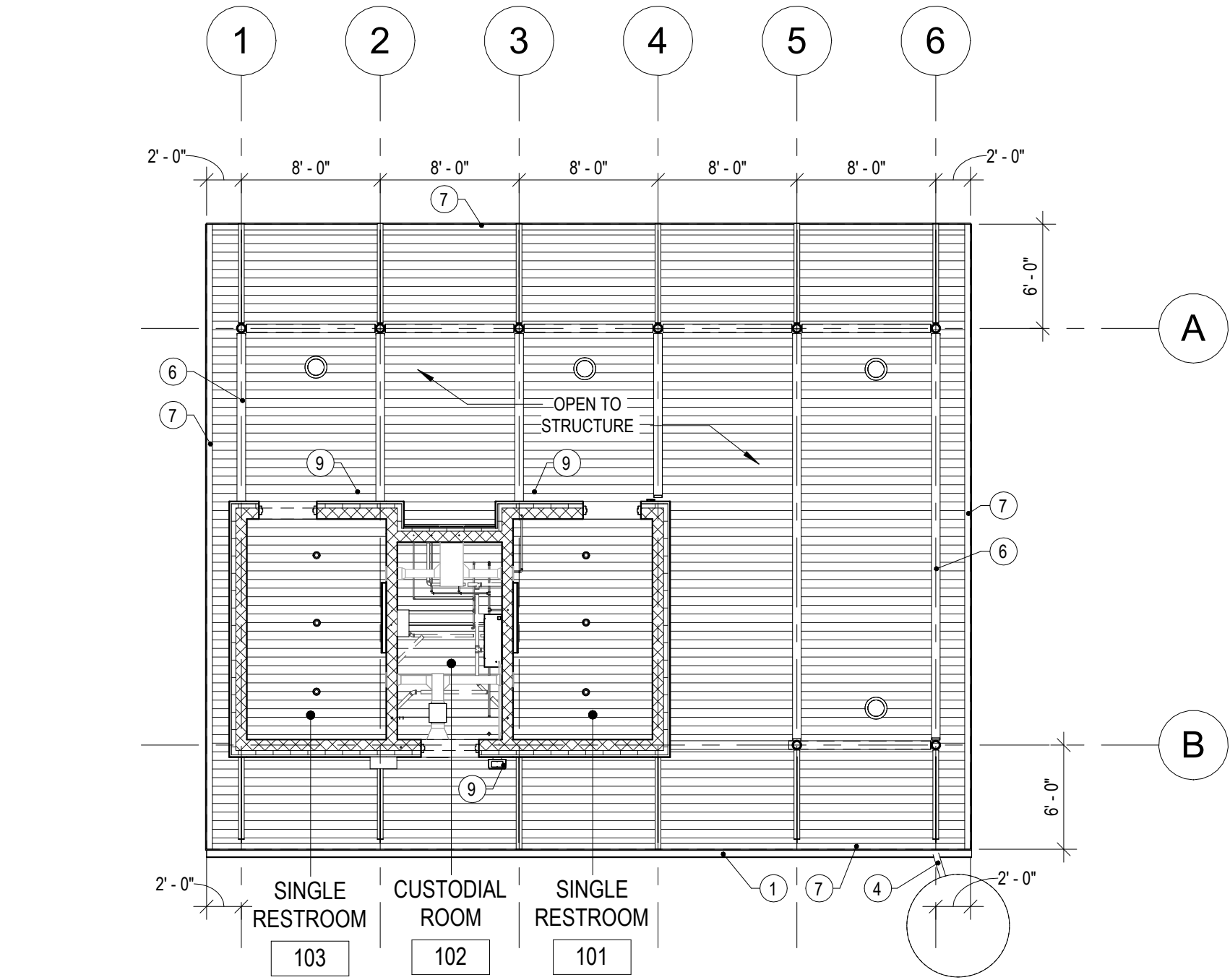
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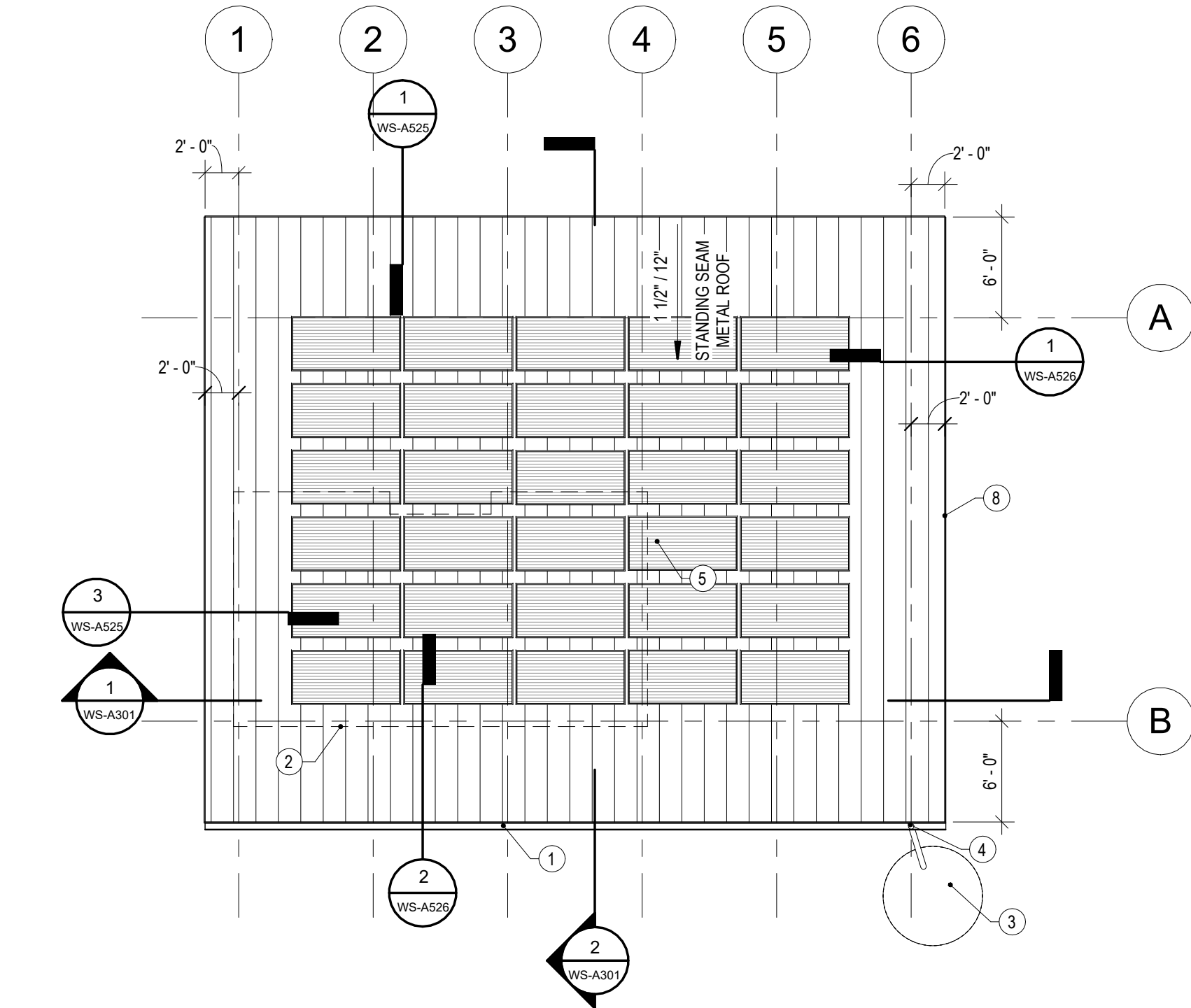
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WS-A101

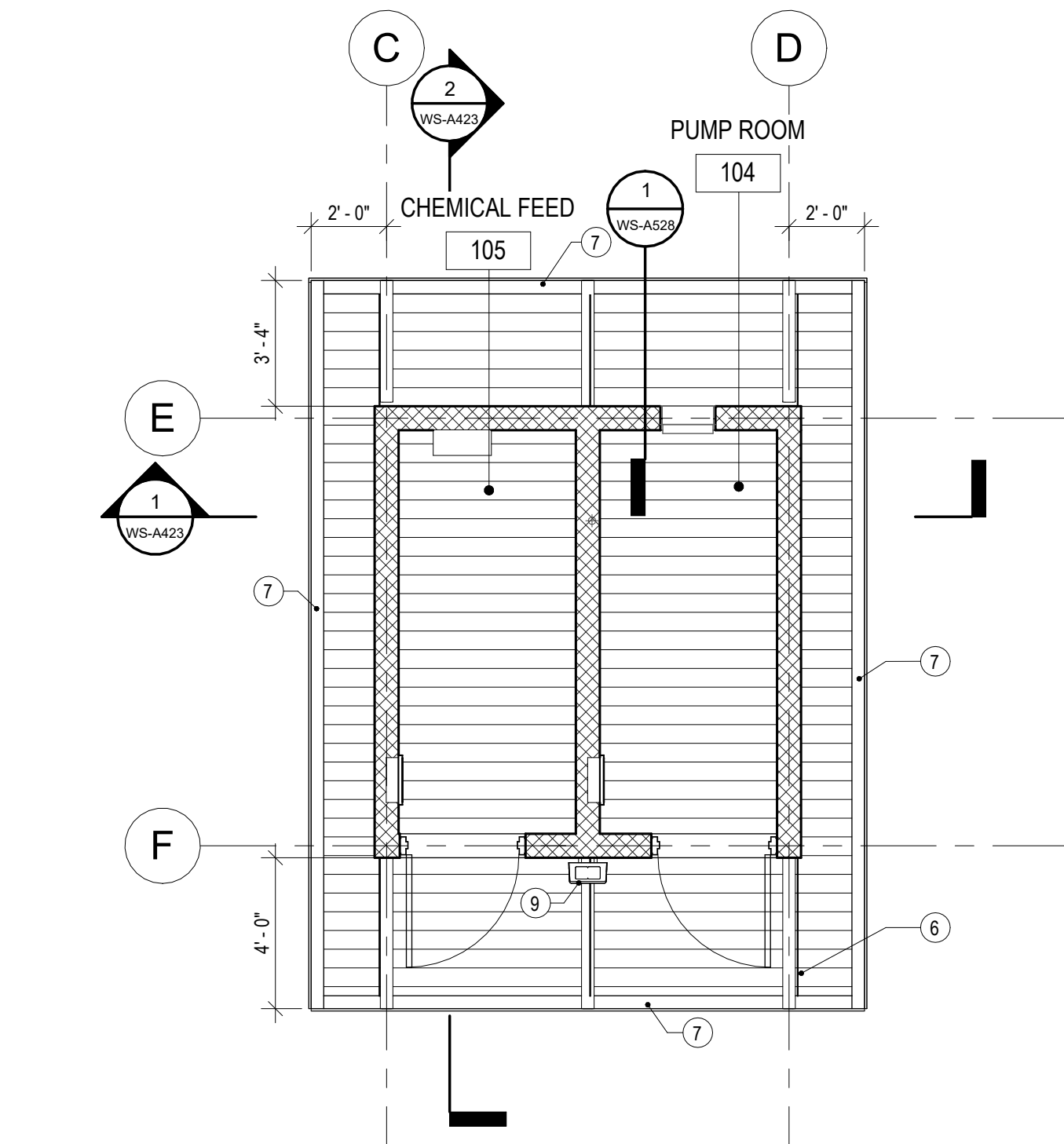




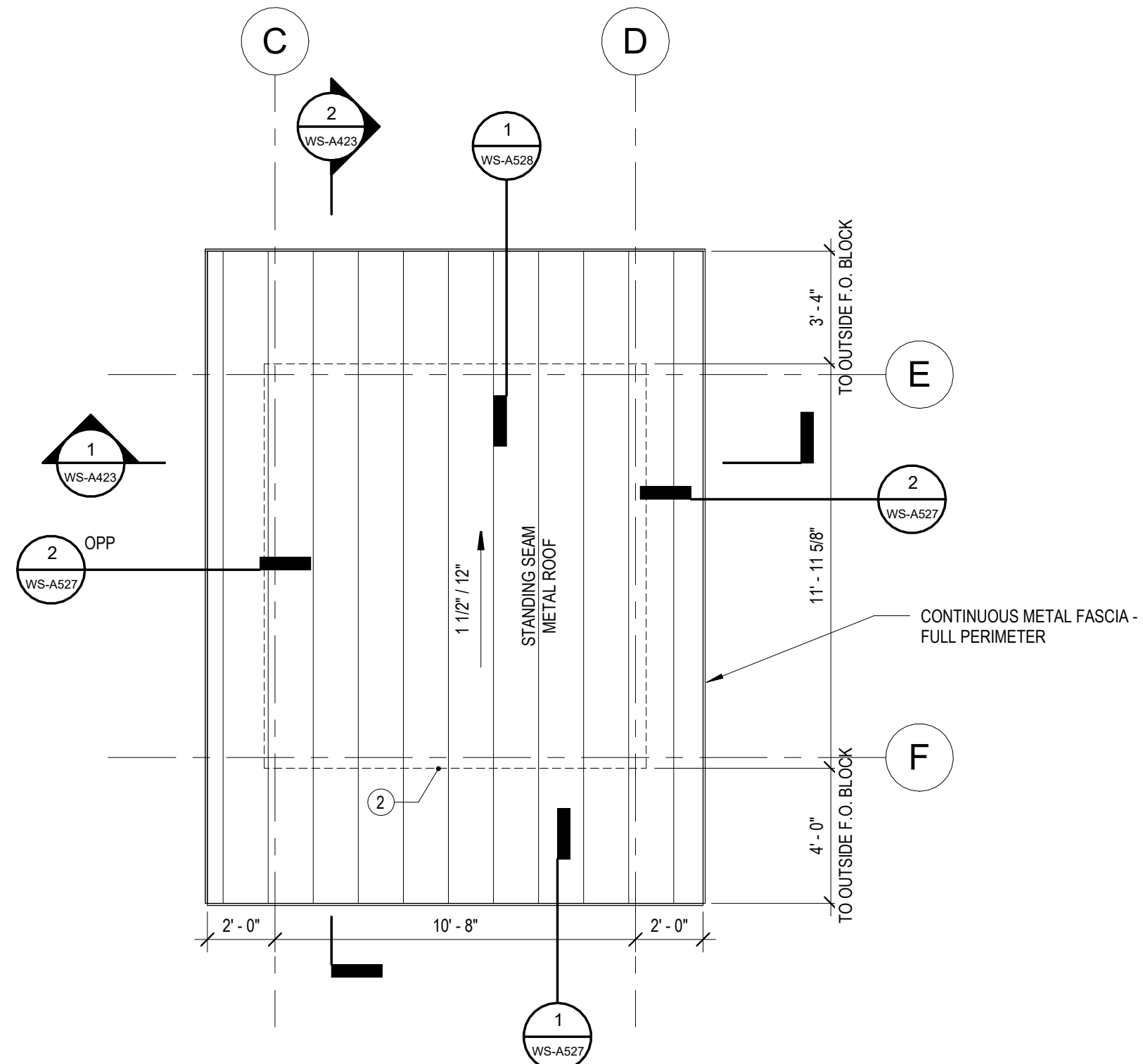
WEST PARCEL SHELTER - REFLECTED CEILING PLAN
1/8" = 1'-0"



WEST PARCEL SHELTER - ROOF PLAN
1/8" = 1'-0"



WELL HOUSE - REFLECTED CEILING PLAN
1/4" = 1'-0"



WELL HOUSE - ROOF PLAN
1/4" = 1'-0"

CEILING LEGEND		
CEILING TYPE		CEILING HEIGHT
PATTERN	KEY	CEILING MATERIAL
	A	EXPOSED 2x WOOD DECKING W/ THREE COATS OF CLEAR SEALER
SYMBOL	DESCRIPTION	
	SUSPENDED LIGHT FIXTURE	
	SUSPENDED LINEAR FIXTURE	
	SUSPENDED LIGHT FIXTURE	
	WALL RECTANGULAR LIGHT	
CEILING NOTES:		
1. SEE ELECTRICAL AND MECHANICAL PLANS FOR MORE INFORMATION.		
2. WHERE CEILING KEYNOTE IS NOT NOTED, ROOM HAS EXPOSED STRUCTURE.		
3. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.		
4. ALL EXTERIOR SUSPENDED LIGHTS TO BE MOUNTED W/ EQUAL CORD LENGTH - SEE ELECTRICAL DRAWINGS		

ROOF PLAN LEGEND	
	2" TALL STANDING SEAM METAL ROOF WITH 16" WIDE PANELS W/ PENCIL RIBS AND ICE AND WATER SHIELD UNDER FULL ROOF AREA
	1 1/2' / 12" SLOPE
	SOLAR PANELS - SEE ELECTRICAL DRAWINGS
ROOF PLAN NOTES	
1. STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED CEILING - NO FASTENERS SHALL PENETRATE DECKING	
2. NO EXPOSED CONDUIT SHALL BE RUN ACROSS UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND COORDINATION WITH THE ARCHITECT. COORDINATE FOR LIGHTING, SECURITY, ETC.	

#	GENERAL ROOF NOTES
KEY	DESCRIPTION
1	5'X5' ALUMINUM GUTTER
2	OUTSIDE FACE OF BLOCK BELOW
3	CISTERN - SEE SITE DRAWINGS
4	4" DIAMETER DOWNSPOUT TO CISTERN - SEE SITE DRAWINGS
5	PHOTO-VOLTAIC PANELS - SEE ELECTRICAL DRAWINGS
6	STEEL BEAMS WITH HIGH PERFORMANCE COATINGS PER SPEC SECTION 09 9600
7	STEEL BENT PLATE AROUND PERIMETER OF ROOF - SEE STRUCTURAL - PAINT PER SPEC 09 9600
8	CONTINUOUS METAL FASCIA - FULL PERIMETER
9	EXTERIOR WALL MOUNTED LIGHT - SEE ELECTRICAL DRAWINGS

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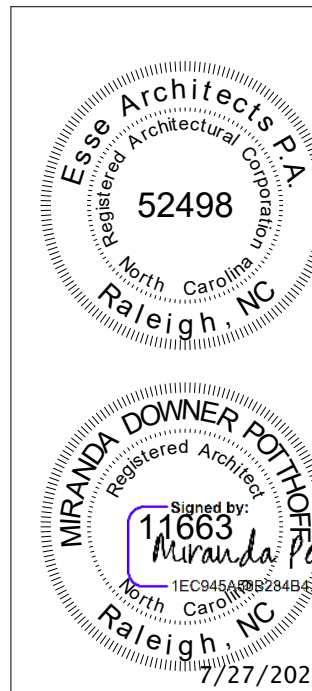
CEILING AND ROOF PLANS

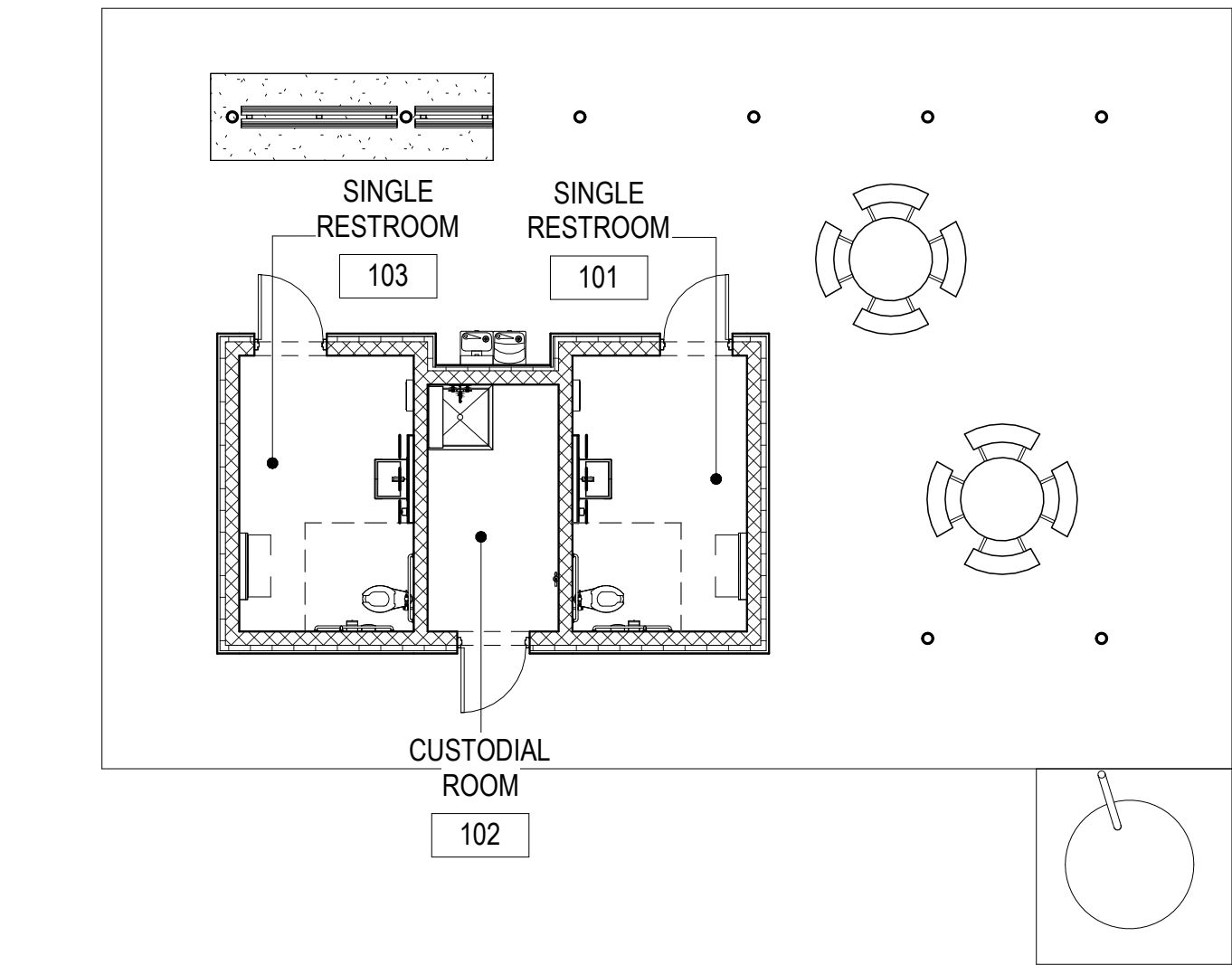
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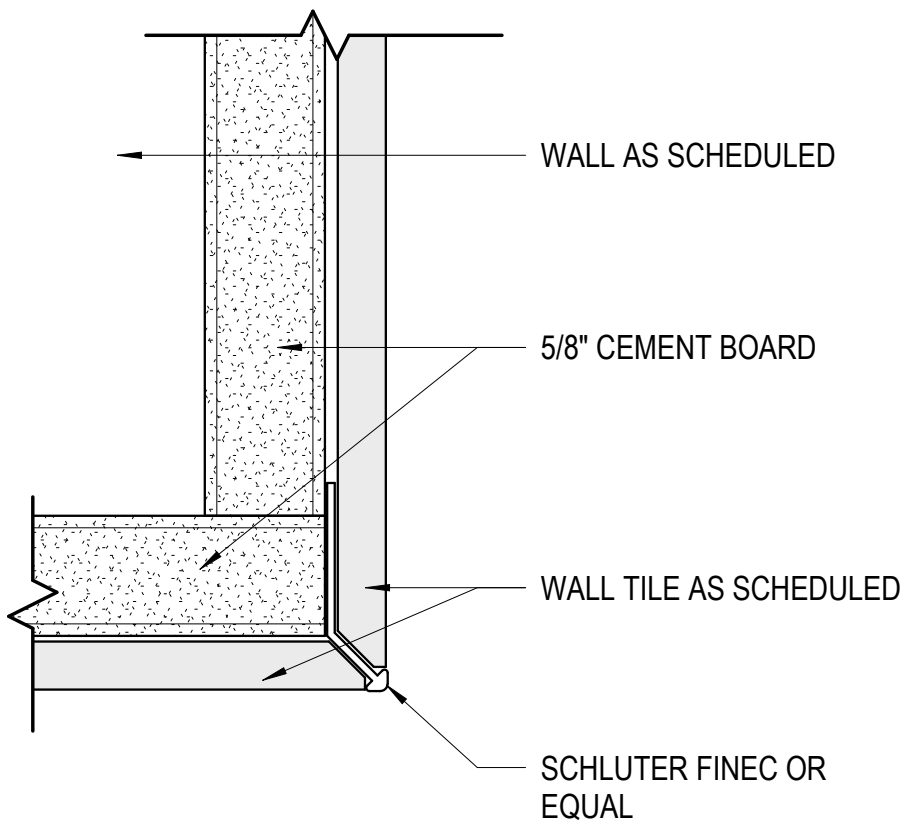




01
WS-A131
WEST PARCEL SHELTER - FINISH PLAN
1/8" = 1'-0"

NOTE: WALL FINISH LOCATIONS NOTED IN THE SCHEDULE ARE ORIENTED USING PLAN NORTH AS THE REFERENCE DIRECTION.

FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR		WALLS				CEILING	MILLWORK	
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST		CABINETRY	COUNTERTOP
101	SINGLE RESTROOM	EPX-1	EPX-1	PT-1	PT-1	PT-1	PT-1, WT-5	A	--	--
102	CUSTODIAL ROOM	EPX-1	EPX-1	PT-1	PT-1	PT-1	PT-1	A	--	--
103	SINGLE RESTROOM	EPX-1	EPX-1	PT-1	PT-1, WT-5	PT-1	PT-1	A	--	--



02
WS-A131
TYP. WALL TILE OUTSIDE CORNER
12" = 1'-0"

FINISH LEGEND

BASIS OF DESIGN:

FLOORING

096723.01	MANUFACTURER:	SHERWIN WILLIAMS
EPX-1	COLLECTION:	DECO QUARTZ
RESINOUS FLOORING	COLOR:	GRASSLAND
	INSTALL METHOD:	POURED; 6" INTEGRAL COVE BASE

WALLS

093013.07	MANUFACTURER:	MOSAIC
WT-5	COLLECTION:	EARTHEN
WALL TILE	COLOR:	JADE; MATTE
	TYPE/SIZE:	3" X 12"
	GROUT:	LATICRETE SPECTRALOCK: TBD
	INSTALL METHOD:	VARIES; SEE ELEVATIONS

PAINTS

099123.01	MANUFACTURER:	SHERWIN WILLIAMS
PT-1	COLOR:	SW 6203 SPARE WHITE
FIELD	SHEEN:	EGGSHELL

099123.03	MANUFACTURER:	SHERWIN WILLIAMS
PT-3	COLOR:	SW 7048 URBANE BRONZE
FIELD	SHEEN:	EGGSHELL

099123.05	MANUFACTURER:	SHERWIN WILLIAMS
PT-5	COLOR:	SW 6438 DILL
GREEN HM DOORS & TRIM	SHEEN:	SEMI-GLOSS

EQUAL 1:

AMERICAN HI-TECH FLOORING COMPANY
MATCH BOD
MATCH BOD
POURED; 6" INTEGRAL COVE BASE

SPECIALTY TILE PRODUCTS
EARTH
LEAF
2" X 8"
LATICRETE SPECTRALOCK: TBD
VARIES; SEE ELEVATIONS

BENJAMIN MOORE
MATCH BOD
EGGSHELL

BENJAMIN MOORE
MATCH BOD
EGGSHELL

BENJAMIN MOORE
MATCH BOD
SEMI-GLOSS

EQUAL 2:

EPOXY SYSTEMS, INC.
MATCH BOD
MATCH BOD
POURED; 6" INTEGRAL COVE BASE

STONE SOURCE
FIRENZE BEPAINT
MOSS
3" X 10"
LATICRETE SPECTRALOCK: TBD
VARIES; SEE ELEVATIONS

PPG
MATCH BOD
EGGSHELL

PPG
MATCH BOD
EGGSHELL

PPG
MATCH BOD
SEMI-GLOSS

SYMBOL LEGEND

X-X

FINISH TAG

TXT

ROLLER SHADE TAG

TILED WALL

GENERAL FINISH NOTES

- ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ORDERING. DO NOT SCALE FROM DRAWINGS.
- ALL MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS WITH APPROVED ADHESIVES OR OTHER FASTENERS.
- IF THERE ARE QUESTIONS ABOUT THE DESIGN INTENT OF ANY PATTERN OR MATERIAL TO BE INSTALLED, THE G.C. SHALL SUBMIT A REQUEST FOR INFORMATION TO THE DESIGNER FOR CLARIFICATION PRIOR TO ORDERING THE MATERIALS.
- THE G.C. SHALL PROVIDE ALL FINISHING PIECES AND TRANSITIONS WHERE DIFFERENT FLOORING THICKNESSES MEET, U.N.O. THE G.C. SHALL SUBMIT A SAMPLE OF THE COLOR/FINISH TO THE DESIGNER FOR APPROVAL.
- ALL WALLS TO BE FIELD PAINT, PT-1, U.N.O. ALL GYP. BD. PARTITIONS TO RECEIVE A LEVEL 4 FINISH.
- EXPOSED ADA THERMAL INSULATED KITS AT SINKS TO BE PAINTED TO MATCH ADJACENT WALL.
- IN INTERIOR CONDITIONS, FLOORING TO TRANSITION UNDER CLOSED DOOR. FLOORING TO TRANSITION IN CENTER OF CASED OPENING WHEN NO DOOR IS SCHEDULED.
- ALL COVER PLATES (DATA, LIGHTS, TELEPHONE, ETC.) AND ALL DEVICES TO COORDINATE WITH WAKE COUNTY STANDARDS.

FINISH PLAN,
LEGEND, &
SCHEDULE

LAKE MYRA COUNTY PARK
Wake County, NC

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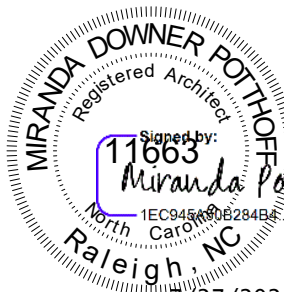
WS-A131

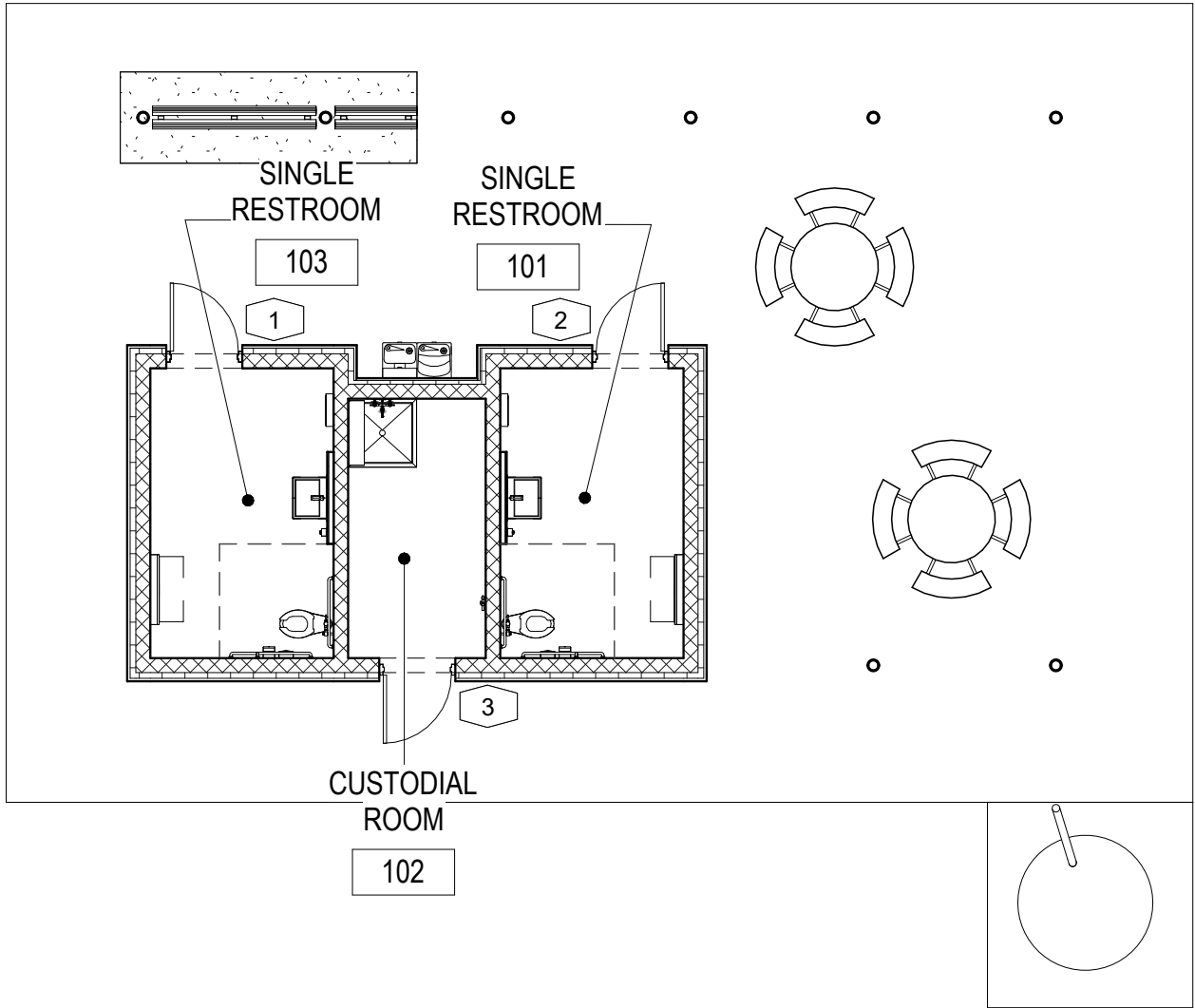
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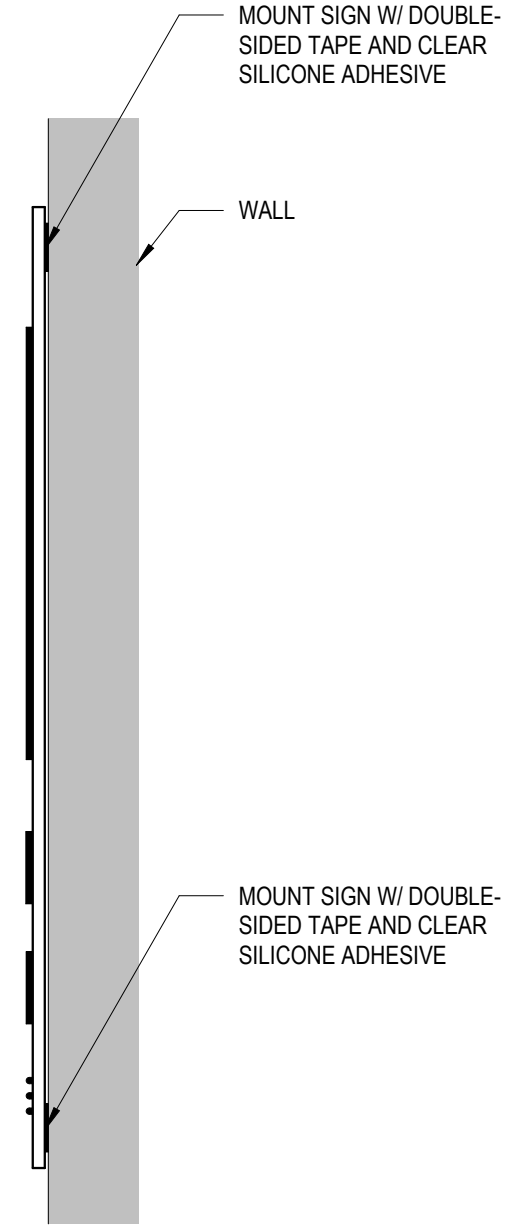
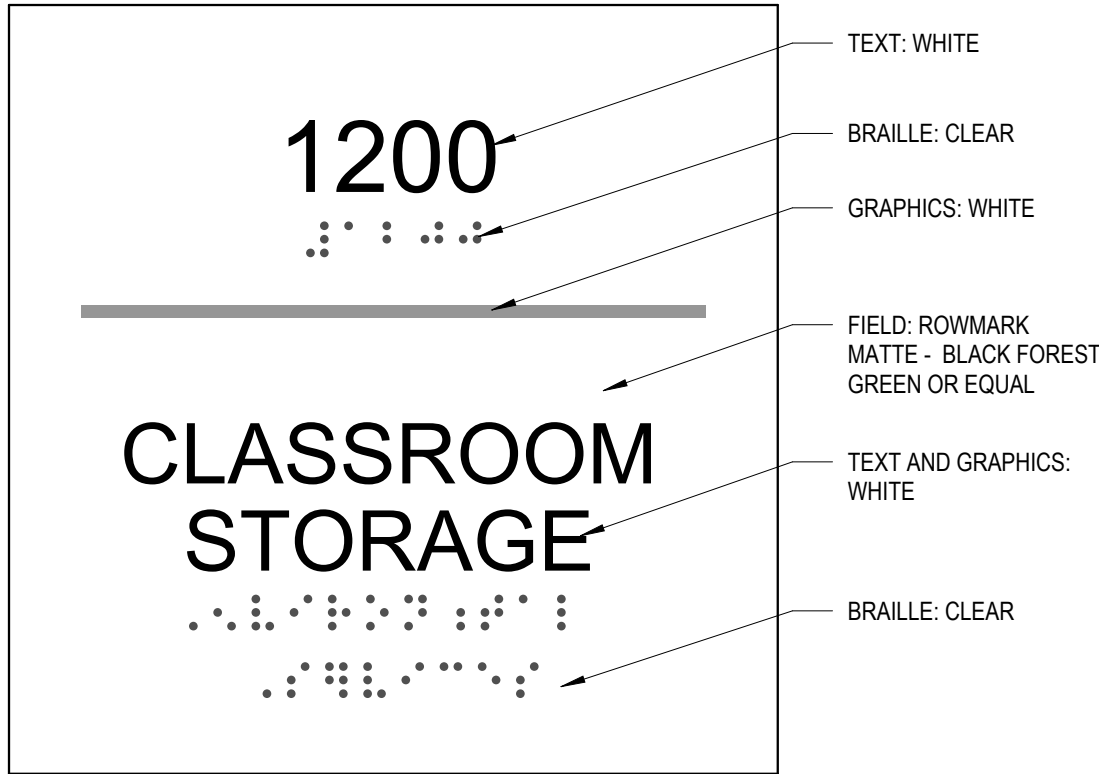
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#	SIGNAGE SCHEDULE			
SIGN NO.	ROOM NO.	SIGNAGE TEXT	SIGN TYPE	COMMENTS
1	103	RESTROOM	R.5	
2	101	RESTROOM	R.5	
3	102	CUSTODIAL	ID.3	



ALL BUILDING SIGNAGE TO BE PROVIDED BY THE OWNER UNLESS OTHERWISE NOTED.

SPECIFICATIONS

GENERAL SIGNAGE NOTES

BRAILLE CHARACTERS ARE FOR GRAPHIC REPRESENTATION ONLY - ACTUAL BRAILLE CHARACTERS TO BE DETERMINED BY SIGN FABRICATOR

ADA COMPLIANT 1/8" THERMOFORM SIGN CONSISTING OF INTEGRAL RAISED COPY, GRADE II BRAILLE WITH SUBSURFACE COPY AND PAINT. SIGN TO BE CLEARCOATED AFTER PAINT AND FOIL STAMP HAS BEEN APPLIED.

ROOM NUMBER, BRAILLE, AND ACCENTS ARE RAISED.

WHERE SIGN IS MOUNTED TO GLASS, PLACE A THERMOFORM BLANK SIGN MOUNTED ON OPPOSITE SIDE OF GLASS. BACK PANEL TO MATCH BACKGROUND COLOR.

COPY STYLE: OPTIMA MEDIUM

COPY COLOR: BLACK; ARCHITECT TO SELECT FROM MANUFACTURERS FULL LINE OF COLORS.

BACKGROUND COLOR: ROWMARK BLACK FOREST GREEN OR EQUAL; ARCHITECT TO SELECT FROM MANUFACTURERS FULL RANGE OF COLORS.

BRAILLE COLOR: CLEAR

SYMBOL COLOR: WHITE ; ARCHITECT TO SELECT FROM MANUFACTURERS FULL RANGE OF COLORS.

NOTE: ALL SIGN TYPES TO MEET ADA REQUIREMENTS FOR COLOR CONTRAST RATIO

CORNERS: SQUARE

SIGN MOUNTING: 3M #4910 CLEAR VHB DOUBLE-SIDED TAPE AND CLEAR SILICONE ADHESIVE

DIMENSIONAL SIGNAGE NOTES

FABRICATED METAL SIGNS

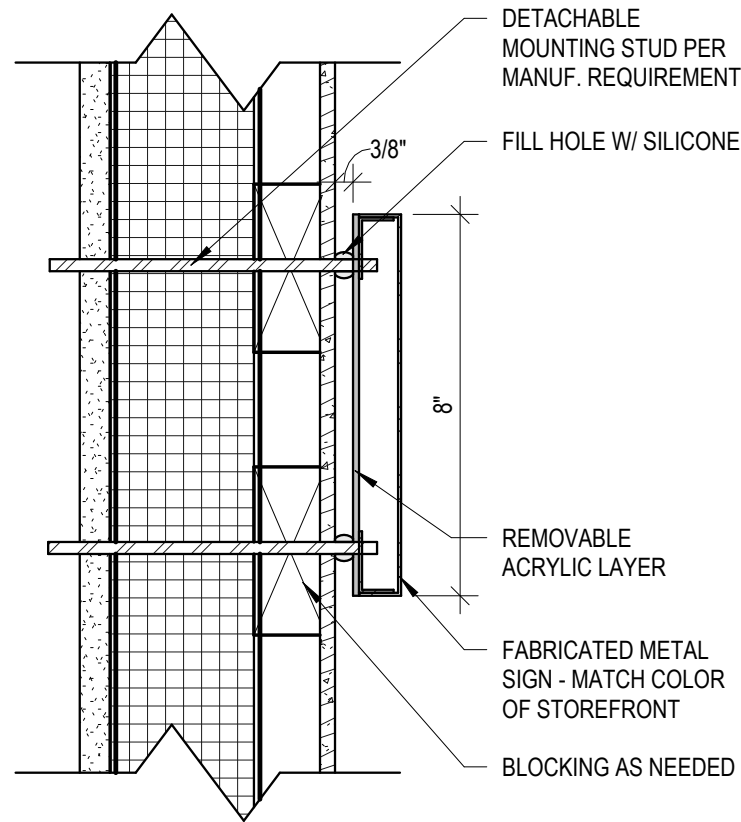
TYPEFACE: ARIAL

COLOR: SW 6438 DILL

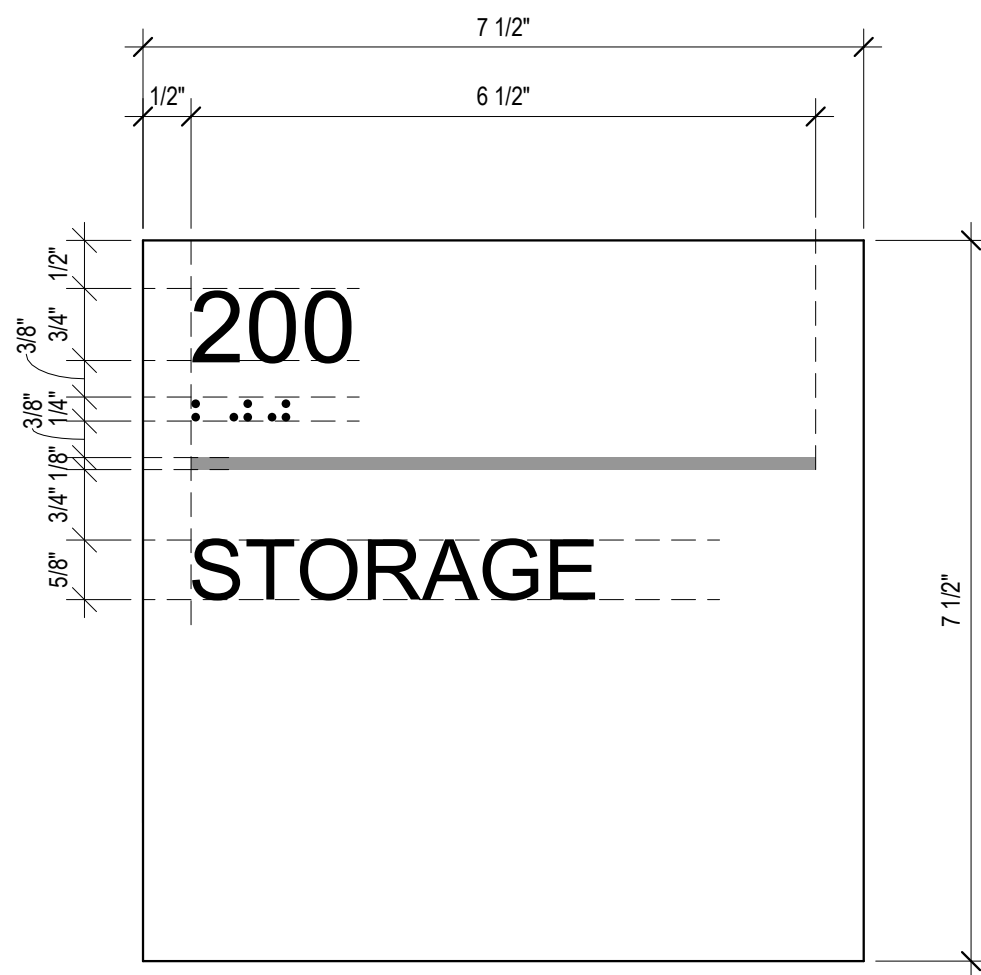
MOUNTING: DETACHABLE MOUNTING STUDS

SIGN TO BE PROVIDED BY THE GC

BUILDING NUMBER TO BE CONFIRMED WITH OWNER PRIOR TO SUBMITTALS



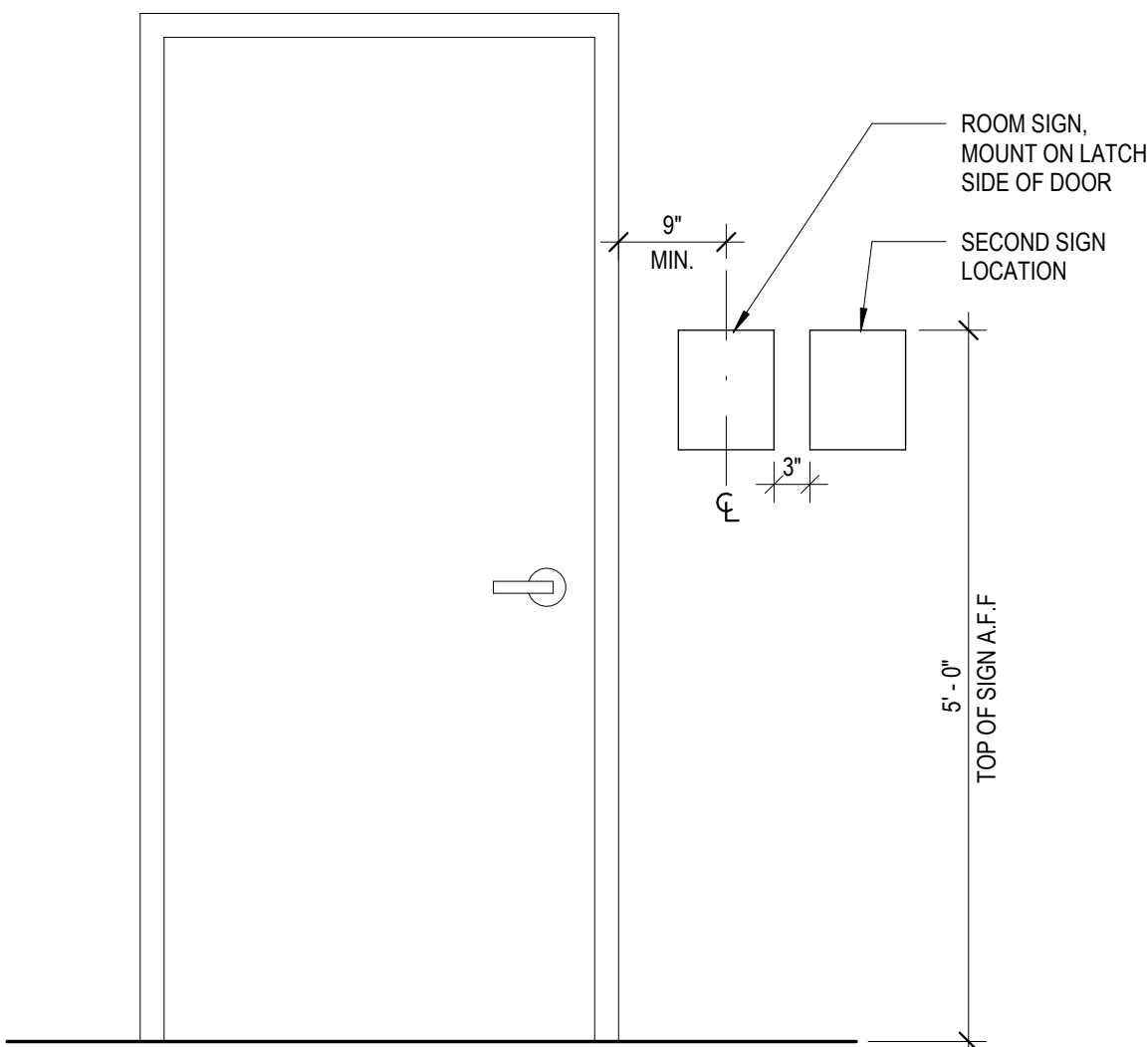
WEST PARCEL SHELTER - SIGNAGE PLAN
1/8" = 1'-0"



SIGNAGE TYPE ID.3 - ROOM INDICATOR VINYL TEXT

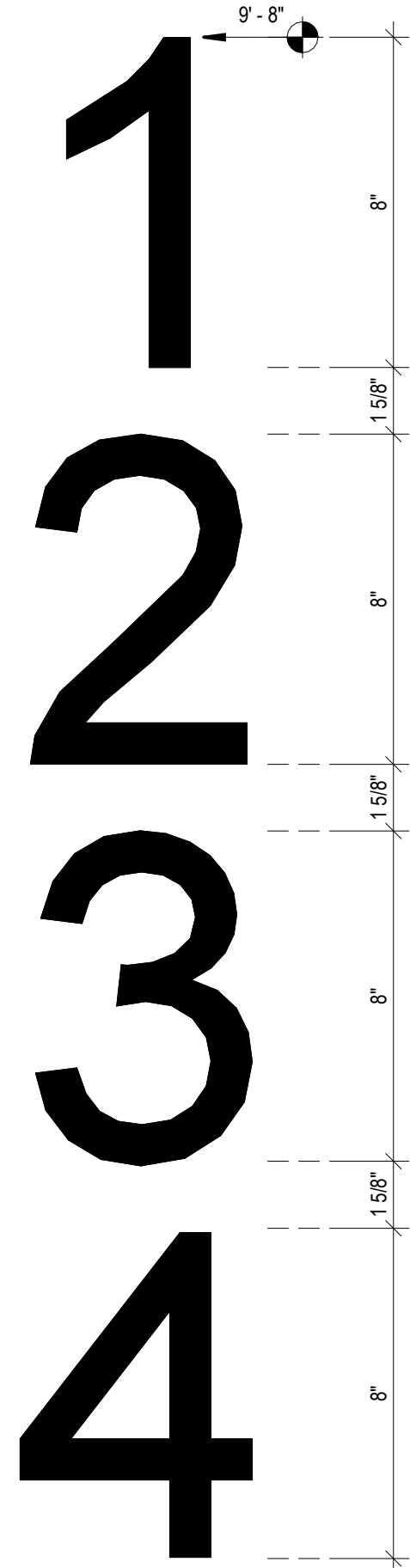


SIGNAGE TYPE R.3 - UNISEX ADA



TYPICAL SIGNAGE (COORD. WITH PLANS)

SIGNAGE MOUNTING HEIGHTS



SIGNAGE TYPE D.1 - EXTERIOR BUILDING ADDRESS - GC PROVIDED

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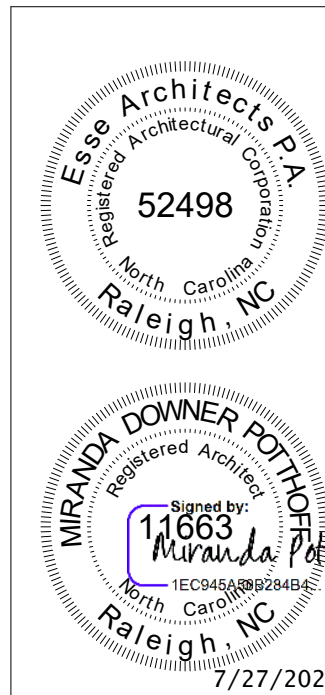
SIGNAGE PLAN & DETAILS

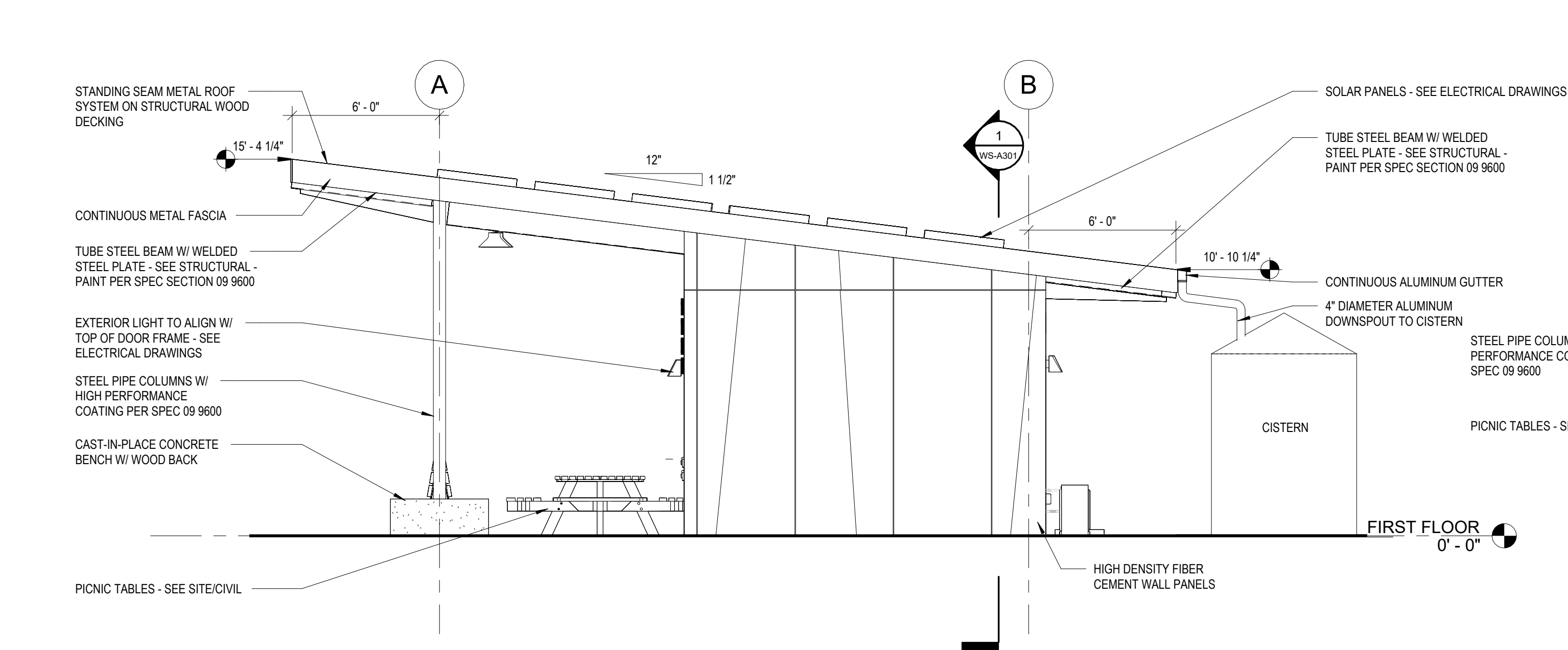
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Wake County, NC

REVISIONS

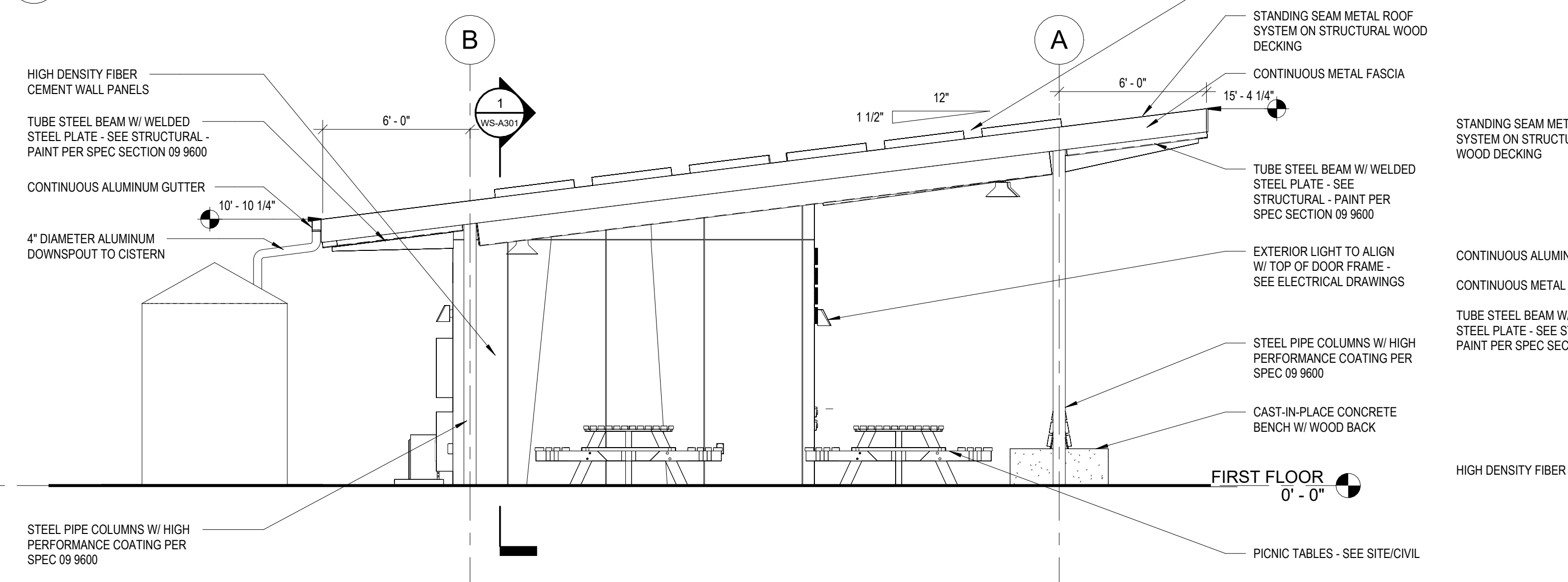
Date: 07/27/26

WS-A132

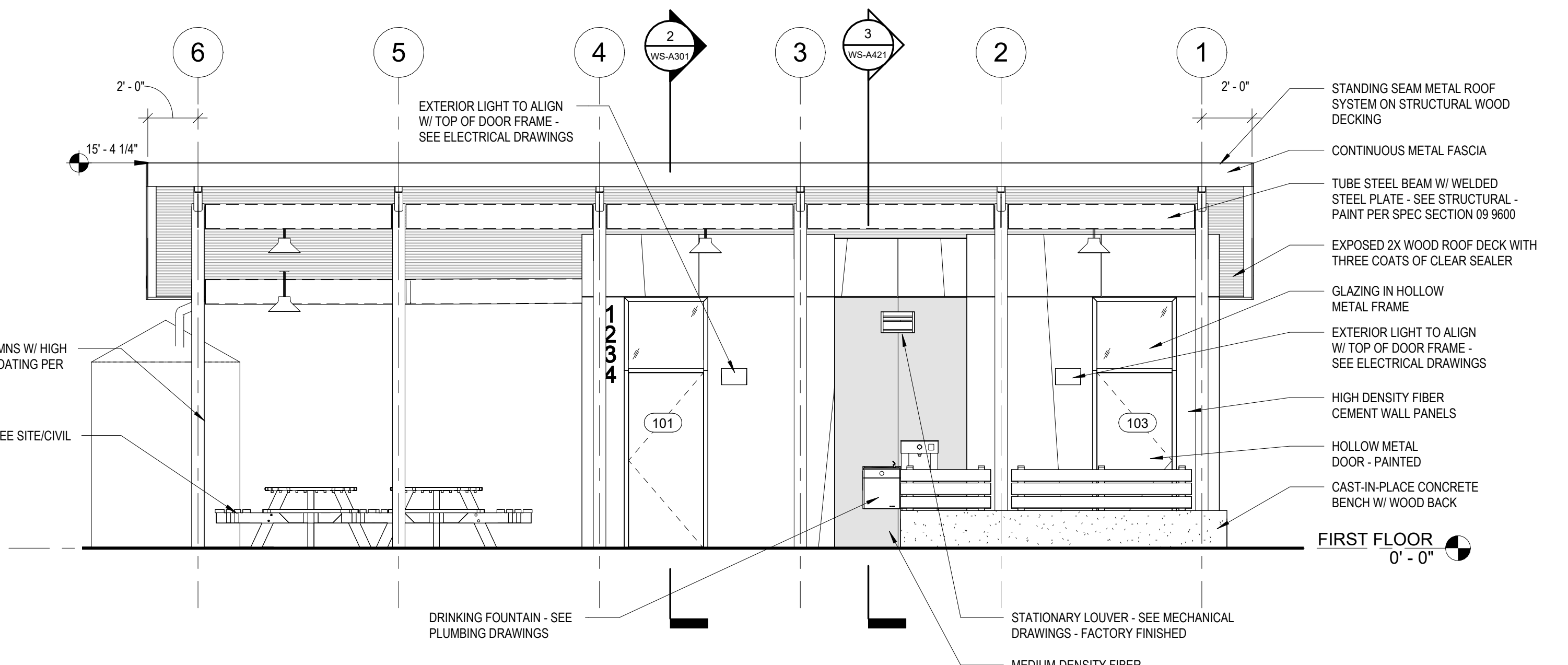




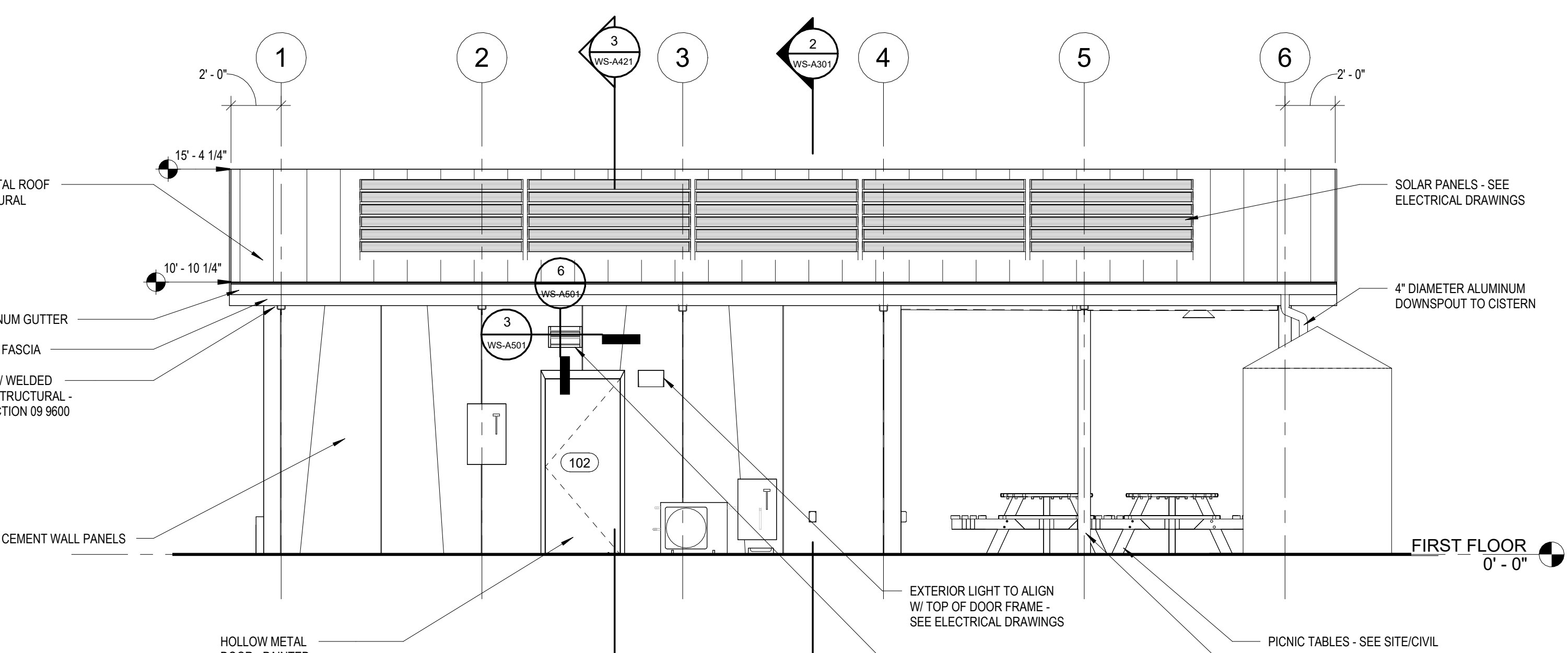
1 WEST PARCEL SHELTER - NORTH ELEVATION
WS-A201 / 1/4" = 1'-0"



3 WEST PARCEL SHELTER - SOUTH ELEVATION
WS-A201 / 1/4" = 1'-0"

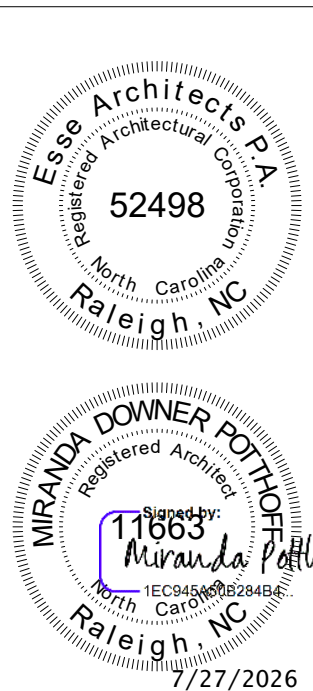


2 WEST PARCEL SHELTER - EAST ELEVATION
WS-A201 / 1/4" = 1'-0"



4 WEST PARCEL SHELTER - WEST ELEVATION
WS-A201 / 1/4" = 1'-0"

EXTERIOR MATERIAL SCHEDULE - WEST PARCEL SHELTER			
WALLS		STEEL	
FIBER CEMENT PANELS	SWISSPEARL - AVERA - AV100-AV060	EXPOSED STRUCTURE	HIGH PERFORMANCE COATING - SW 7048 - URBANE BRONZE
MEDIUM DENSITY FIBER CEMENT PANELS	HIGH PERFORMANCE COATING - SW 7048 - URBANE BRONZE	HM DOORS AND FRAMES	HIGH PERFORMANCE COATING - SEE DOOR SCHEDULE FOR FINISH
ROOF		GLAZING	
STANDING SEAM METAL PANELS	PAC-CLAD - TITE-LOCK - GRANITE	VISION GLASS	LOW-E CLEAR GLASS
SOFFITS	EXPOSED WOOD DECKING WITH THREE COATS CLEAR SEAL		
GUTTERS, DOWNSPOUTS, AND TRIM			
GUTTERS AND DOWNSPOUTS	HIGH PERFORMANCE COATING - SW 7048 - URBANE BRONZE		
NOTES:			
1. ALL FINISHES NOTED HERE REPRESENT THE BASIS OF DESIGN - SEE SPECIFICATIONS FOR THREE EQUALS			
2. ALL EXTERIOR PAINTS TO BE HIGH-PERFORMANCE COATINGS PER SPEC SECTION 09 9600.			



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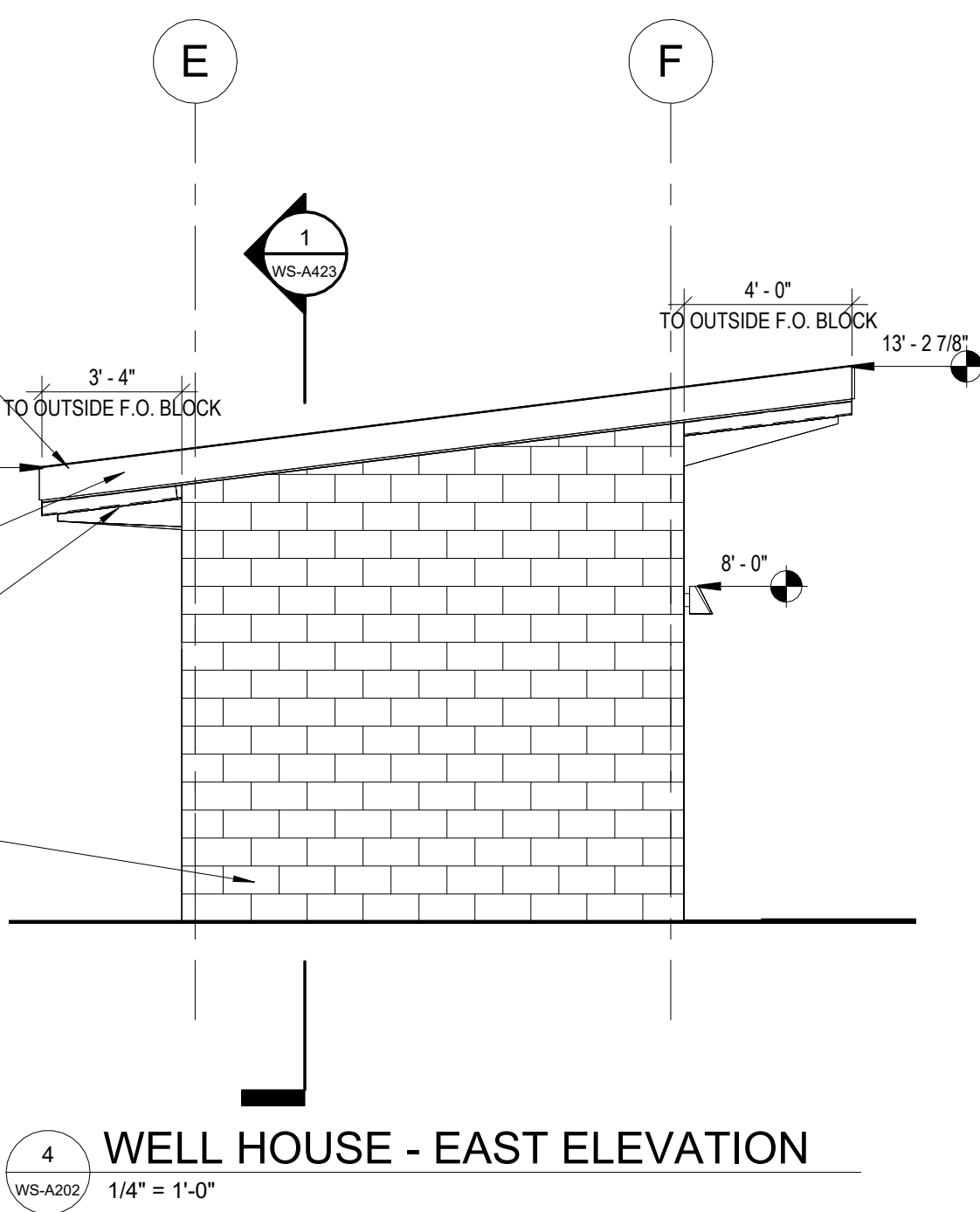
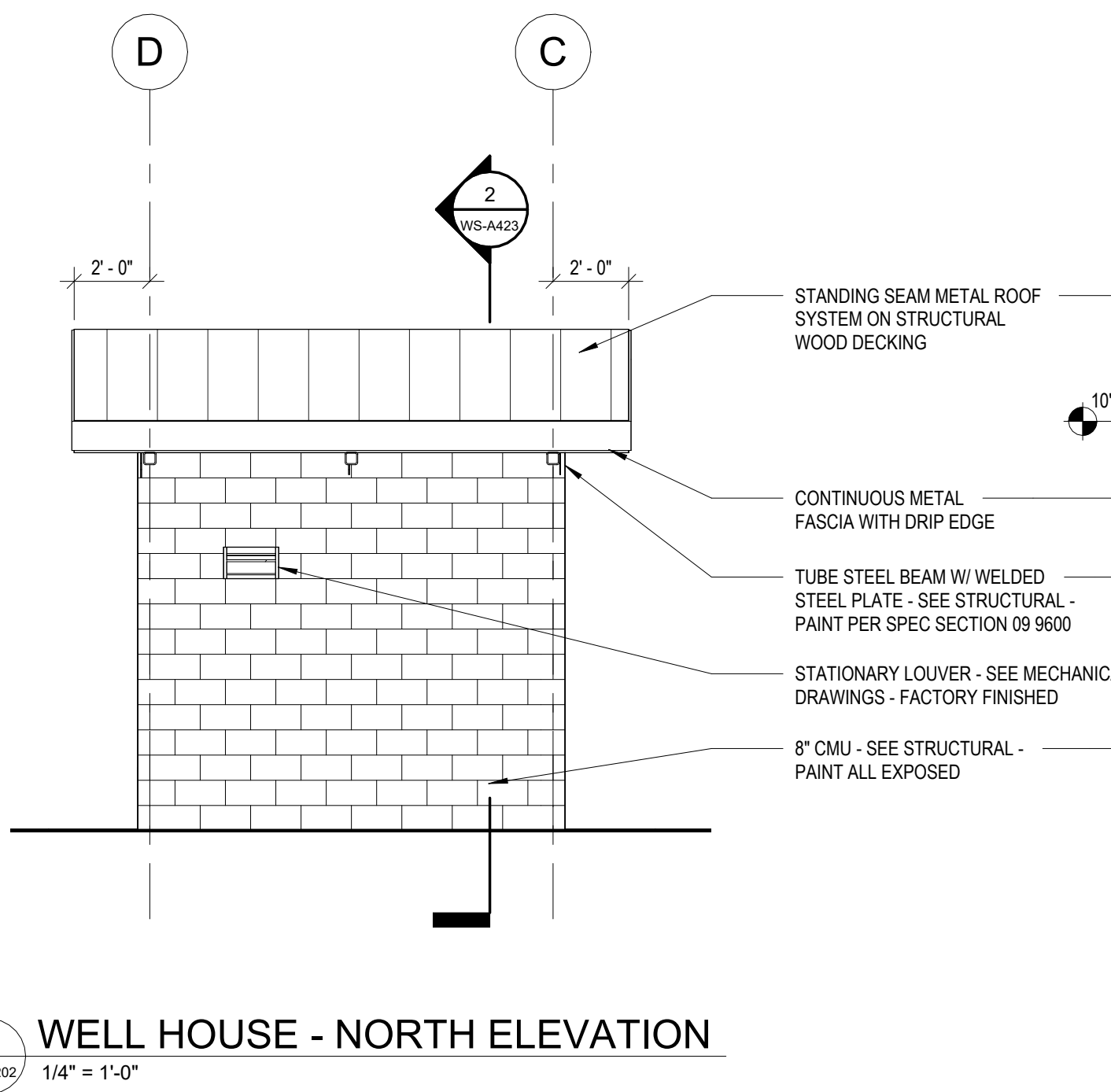
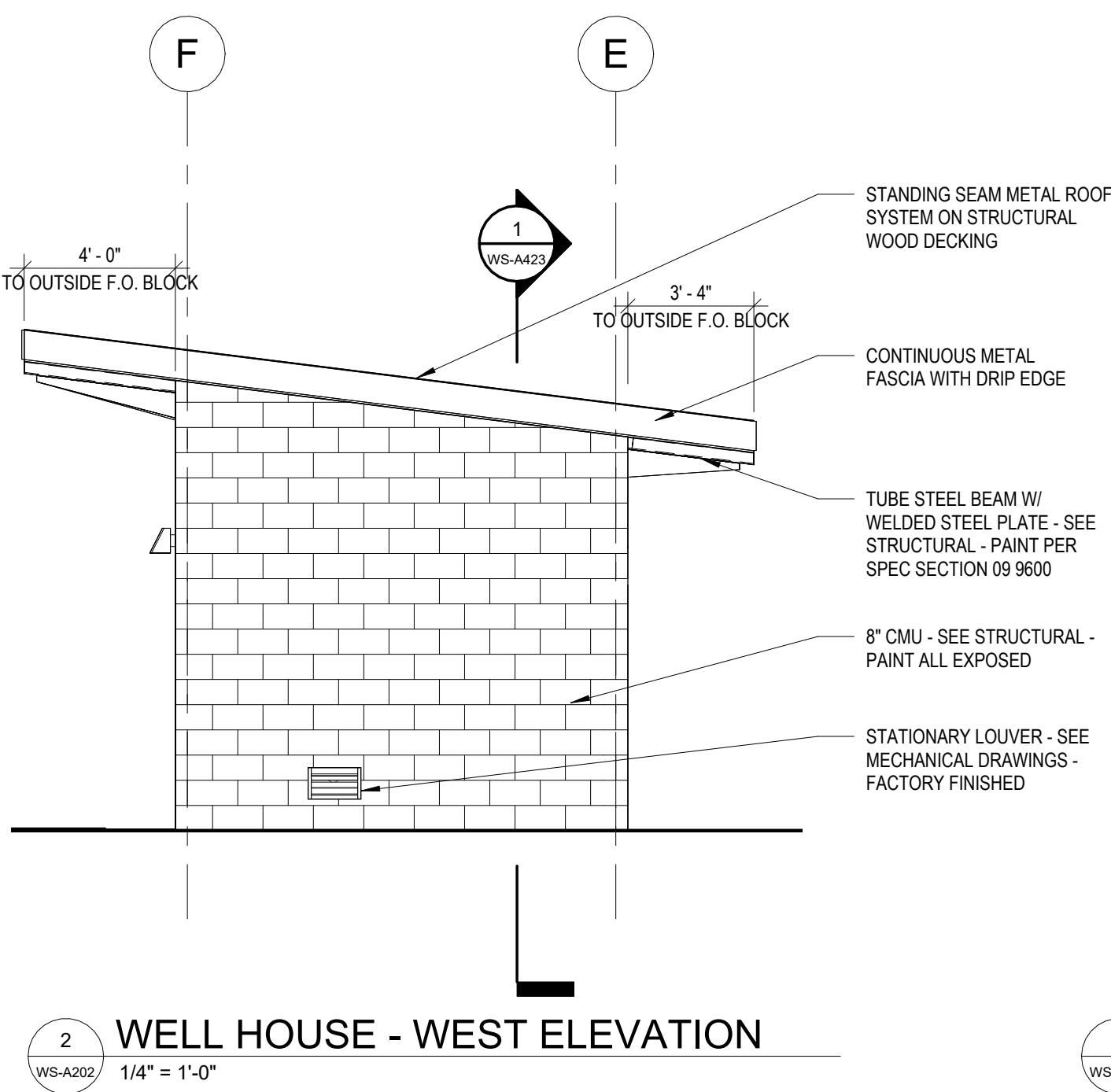
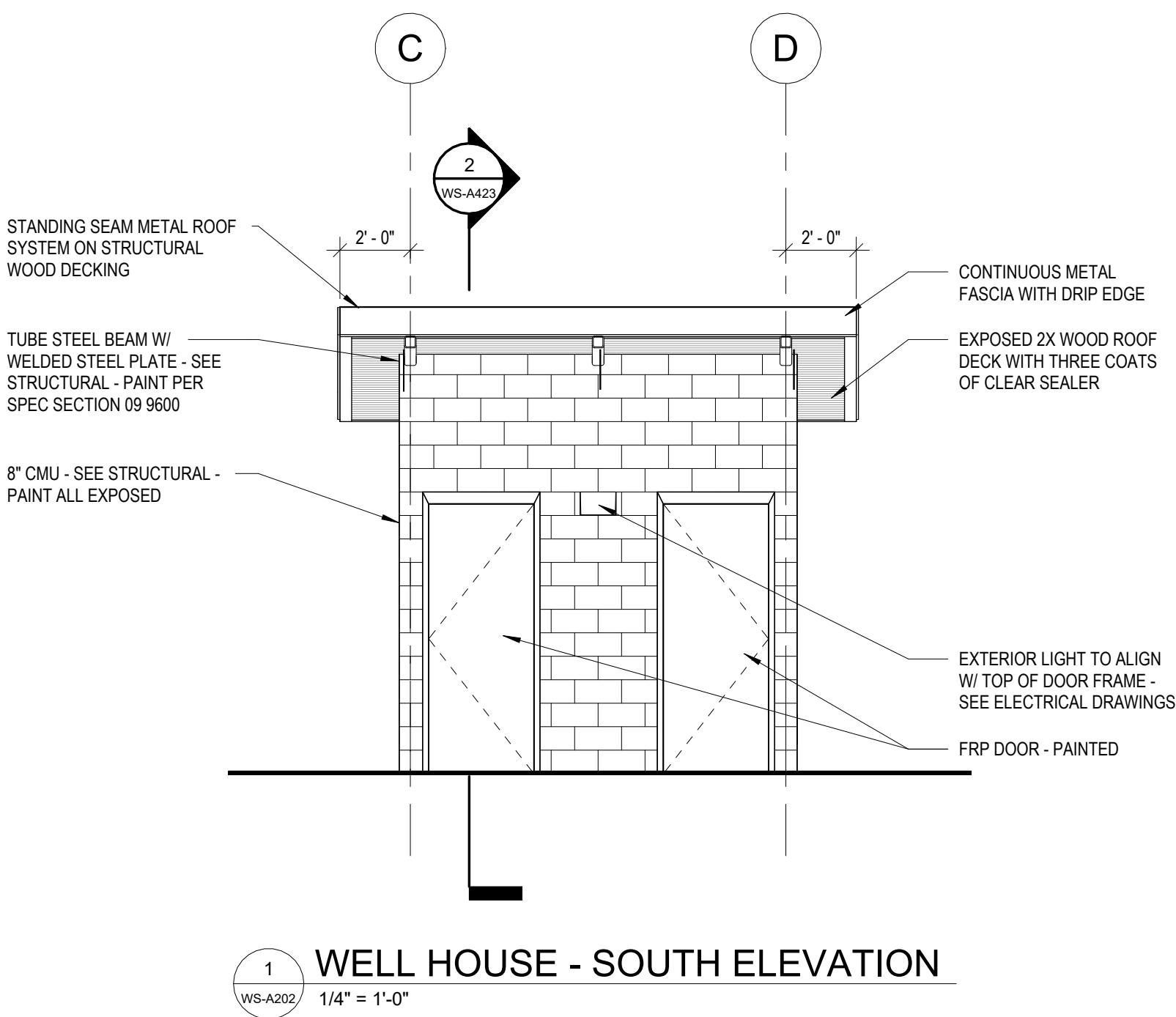
SHELTER -
EXTERIOR
ELEVATIONS

LAKE MYRA COUNTY PARK
Wake County, NC

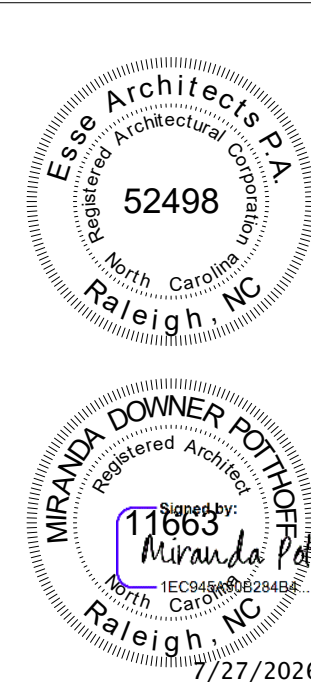
REVISIONS

Date: 07/27/26

WS-A201



EXTERIOR MATERIAL SCHEDULE - WEST PARCEL WELL HOUSE	
WALLS	
8\"X8\"X16 NOMINAL CMU BLOCK	HIGH PERFORMANCE COATING - SW 7060 - ATTITUDE GRAY
ROOF	
STANDING SEAM METAL PANELS	PAC-CLAD - TITE-LOCK - GRANITE
SOFFITS	EXPOSED WOOD DECKING WITH THREE COATS CLEAR SEAL
STEEL	
EXPOSED STRUCTURE	HIGH PERFORMANCE COATING - SW 7048 - URBANE BRONZE
DOORS AND FRAMES	HIGH PERFORMANCE COATING - SEE DOOR SCHEDULE FOR FINISH
NOTES:	
1. ALL FINISHES NOTED HERE REPRESENT THE BASIS OF DESIGN - SEE SPECIFICATIONS FOR THREE EQUALS.	
2. ALL EXTERIOR PAINTS TO BE HIGH-PERFORMANCE COATINGS PER SPEC SECTION 09 9600.	



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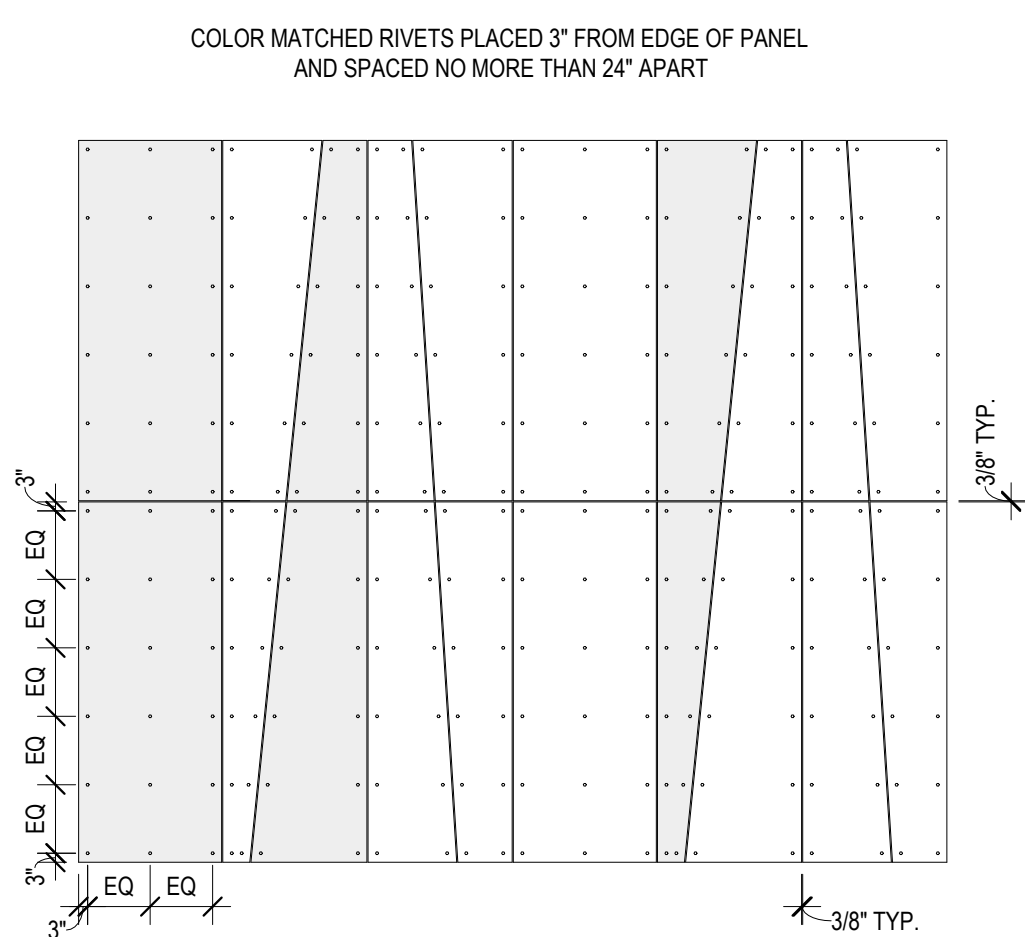
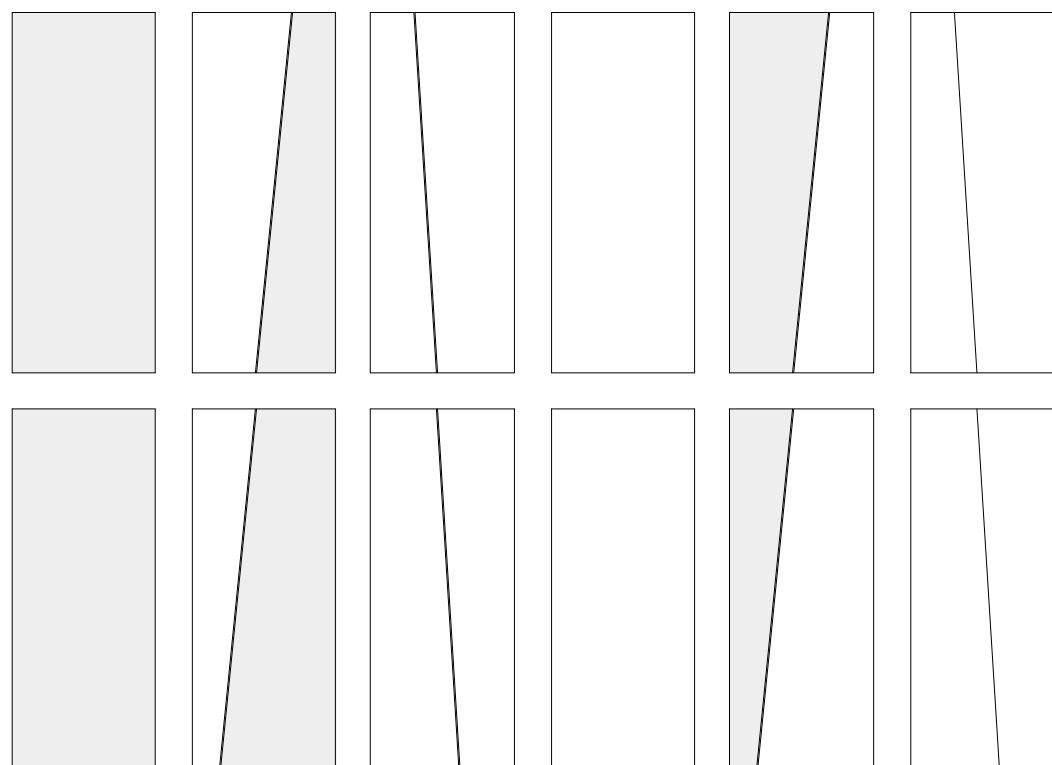
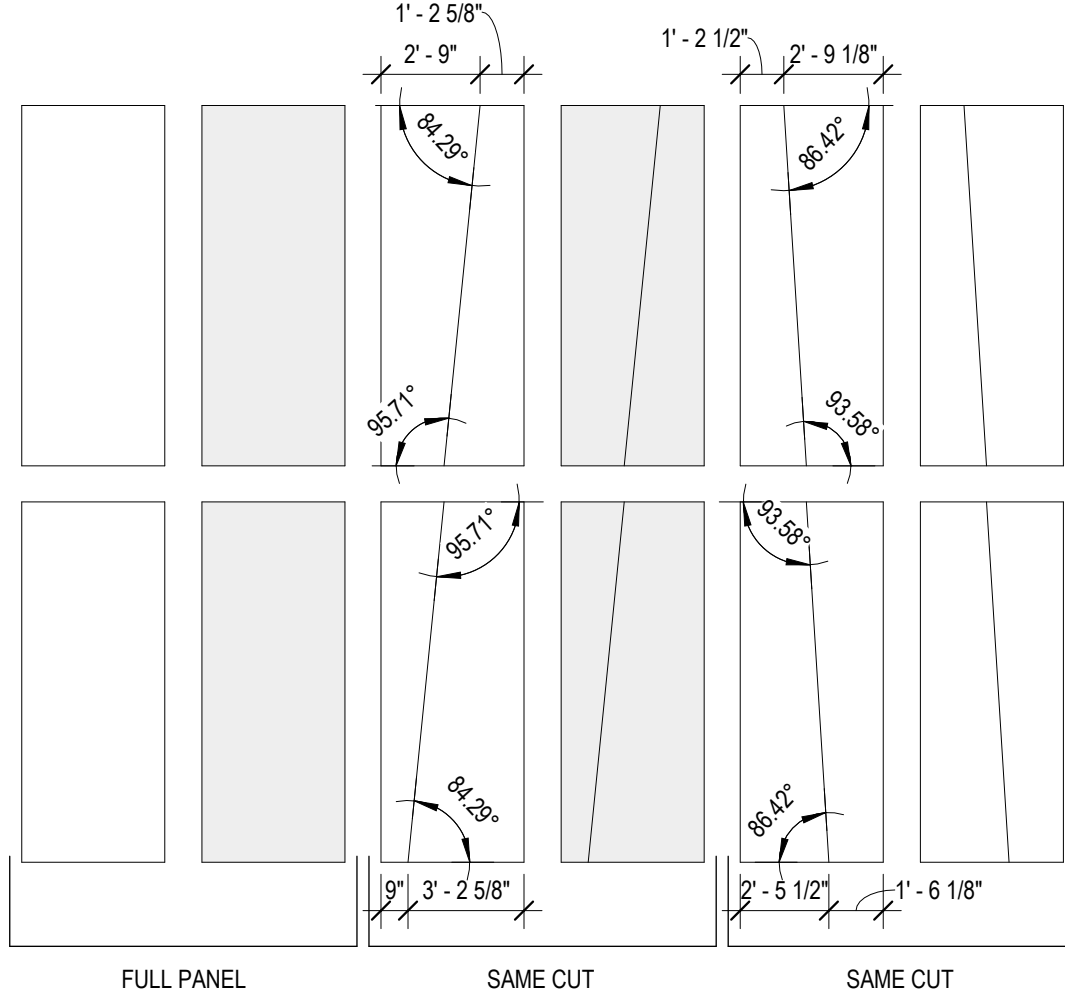
WELL HOUSE -
EXTERIOR
ELEVATIONS

LAKE MYRA COUNTY PARK
Wake County, NC

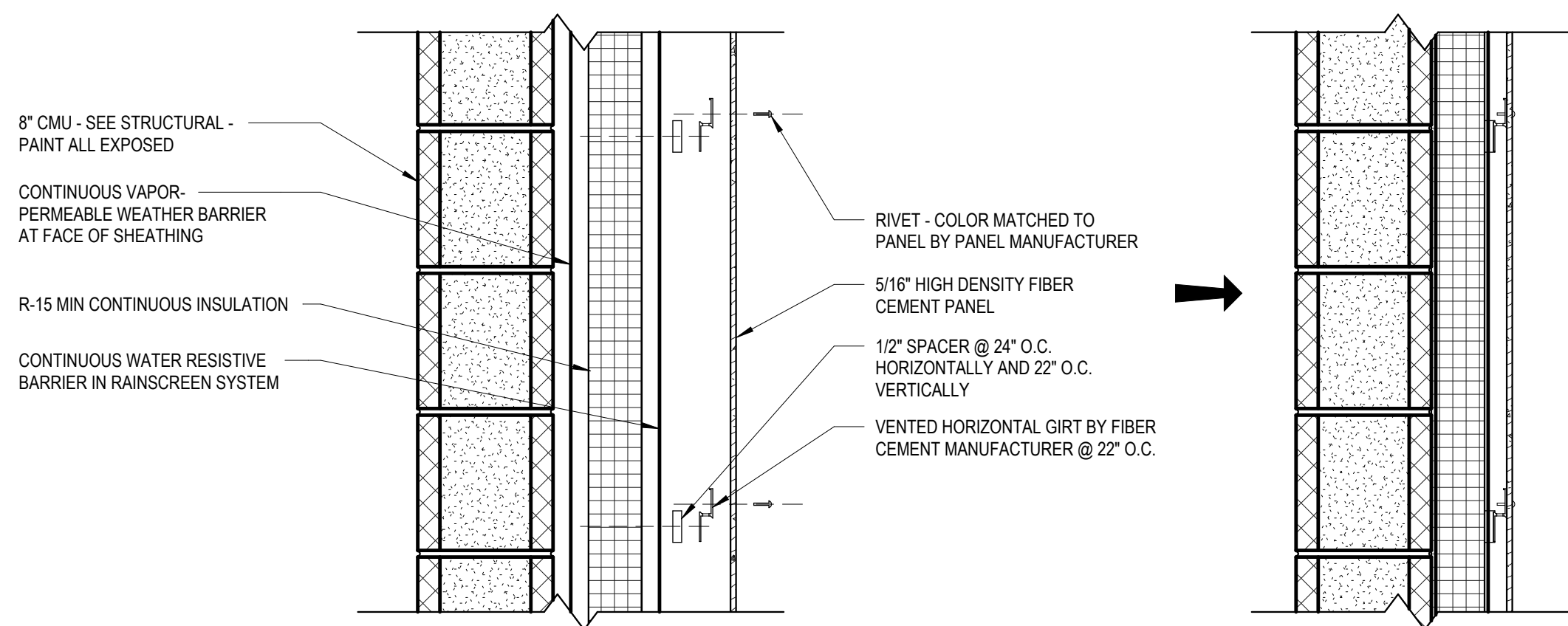
REVISIONS

Date: 07/27/26
WS-A202

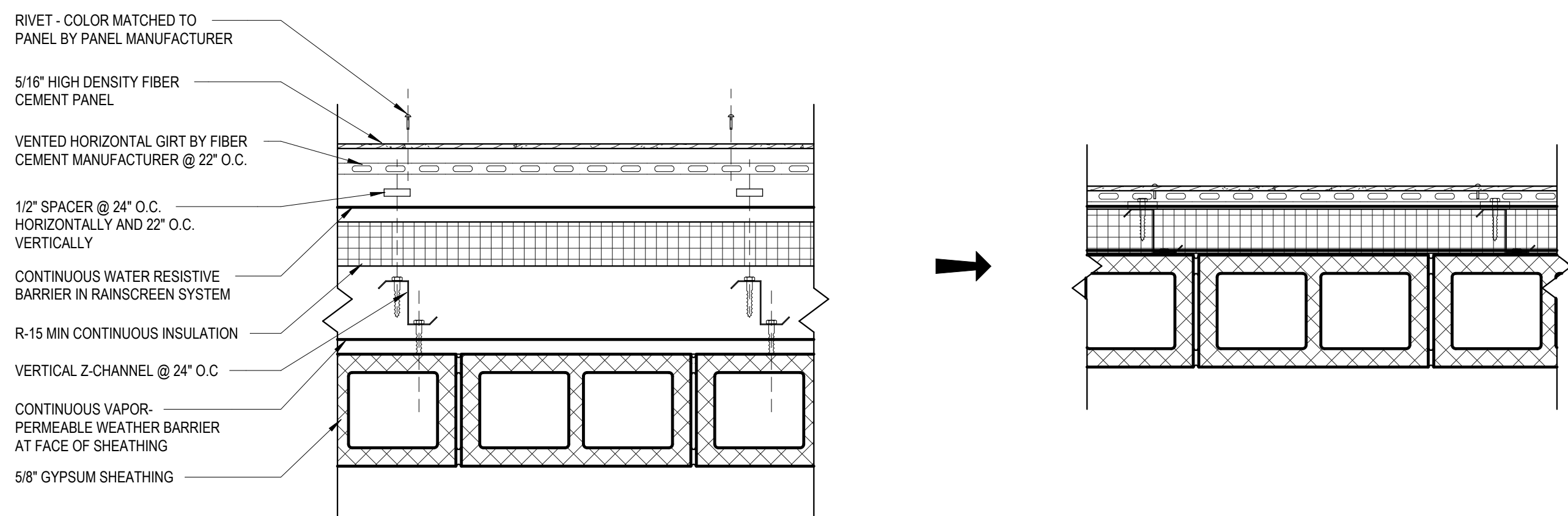
PLACED TOGETHER AND REPEATED AROUND THE BUILDING
WITH GAPS OF 3/8" BETWEEN PANEL SLICES



1 WESTERN PARCEL SHELTER EXTERIOR WALL PATTERN - EXPLODED
WS-A203 3/16" = 1'-0"

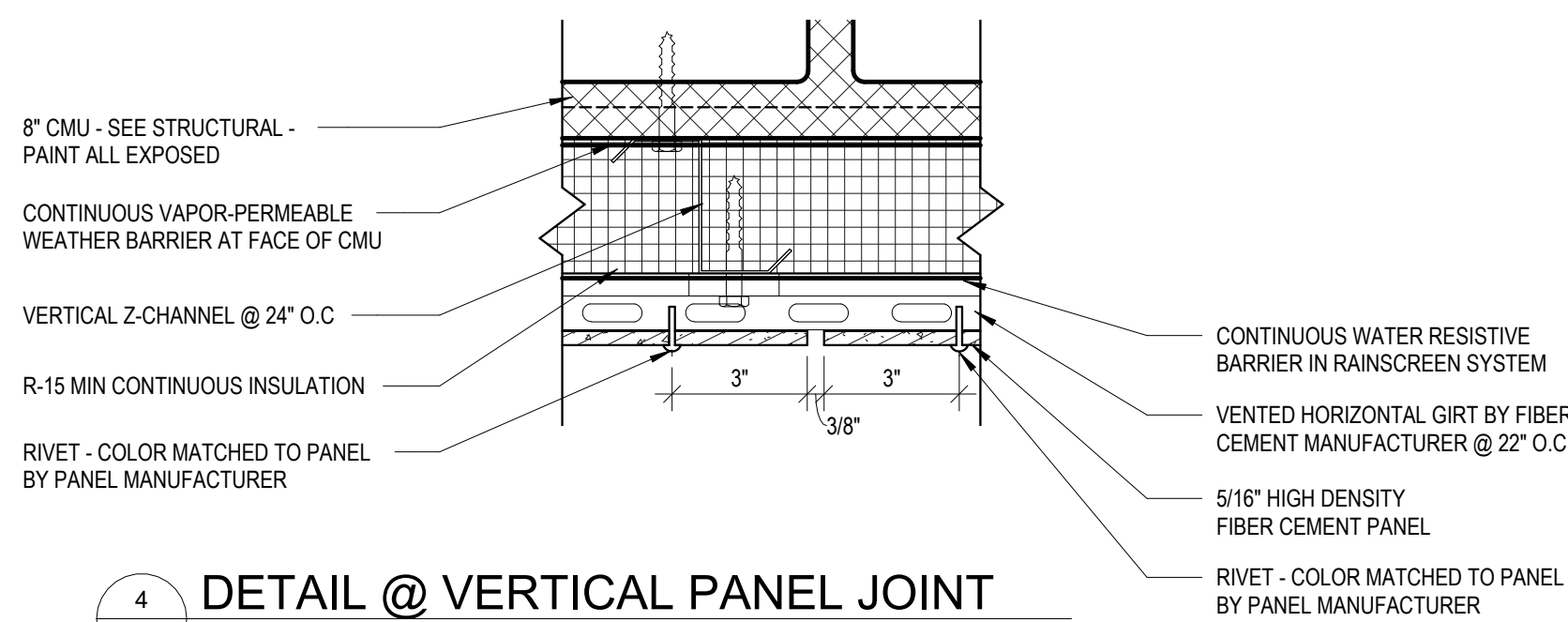


SECTION VIEW

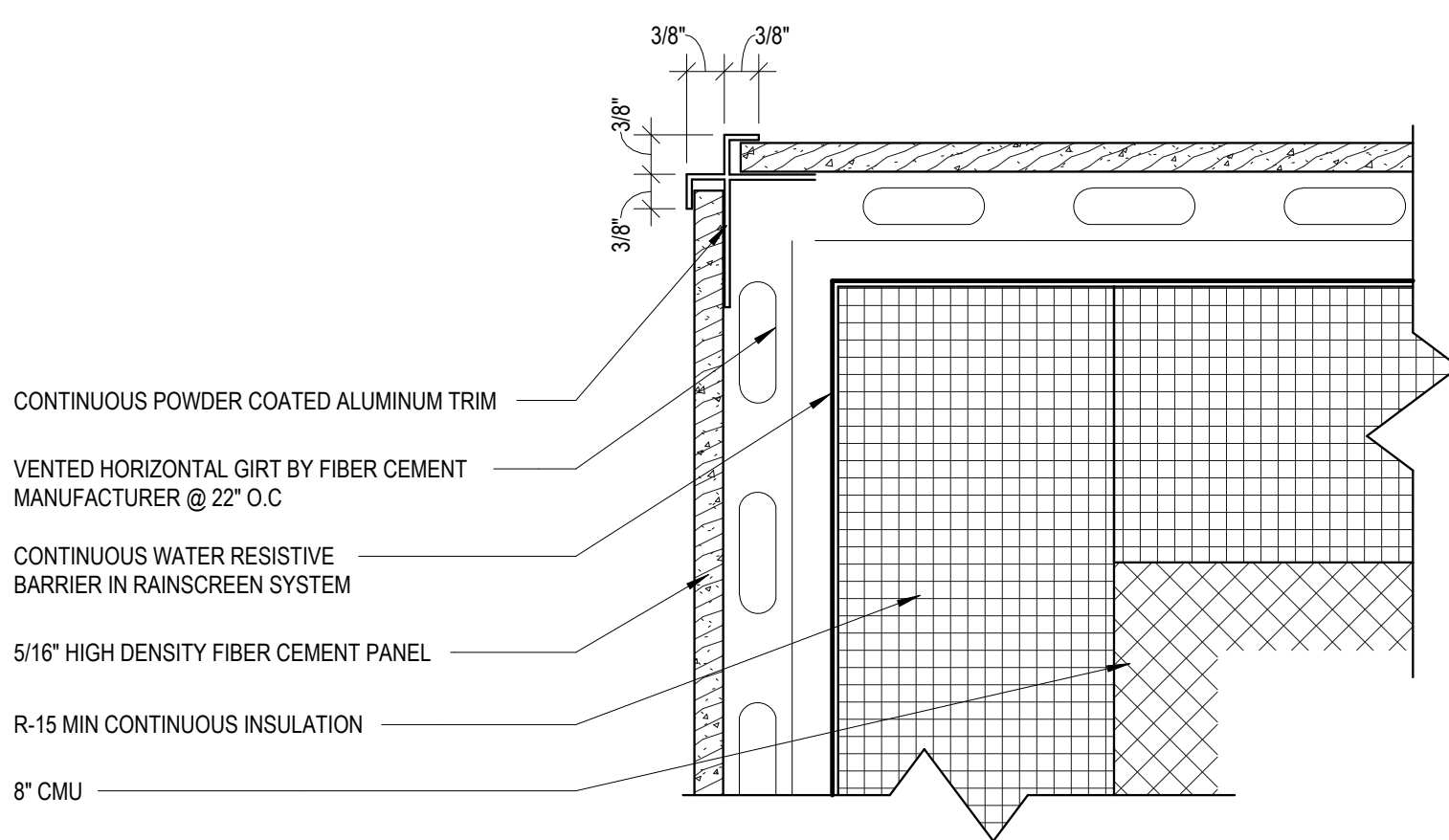


PLAN VIEW

EXPLODED PANEL ATTACHMENT

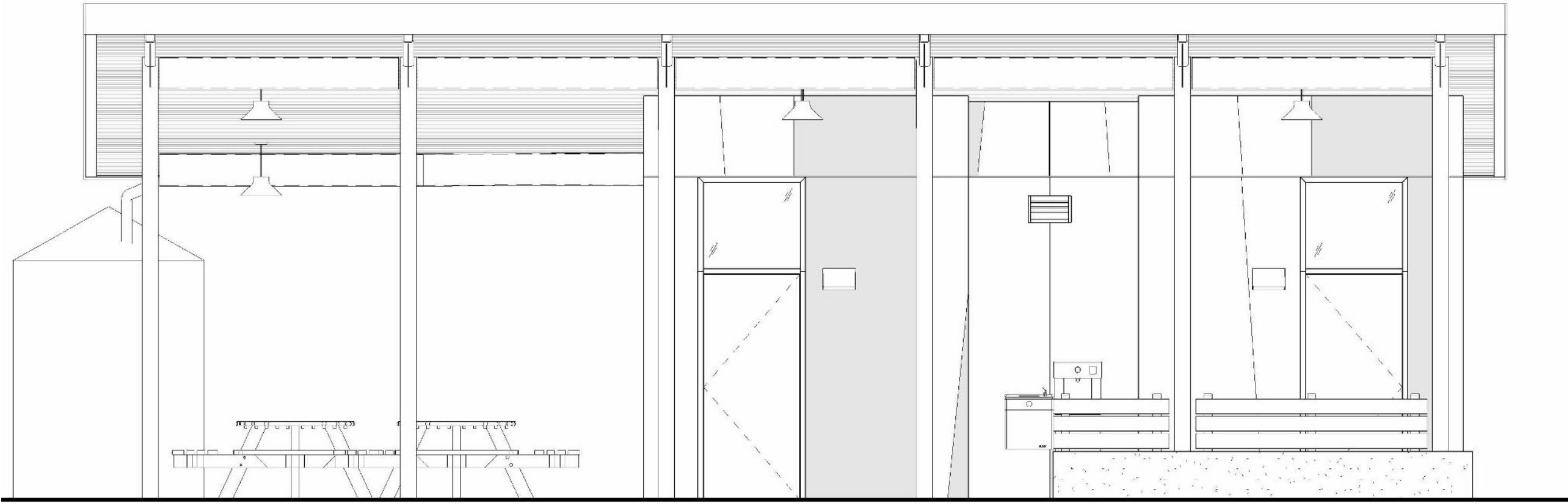


4 DETAIL @ VERTICAL PANEL JOINT
WS-A203 3" = 1'-0"

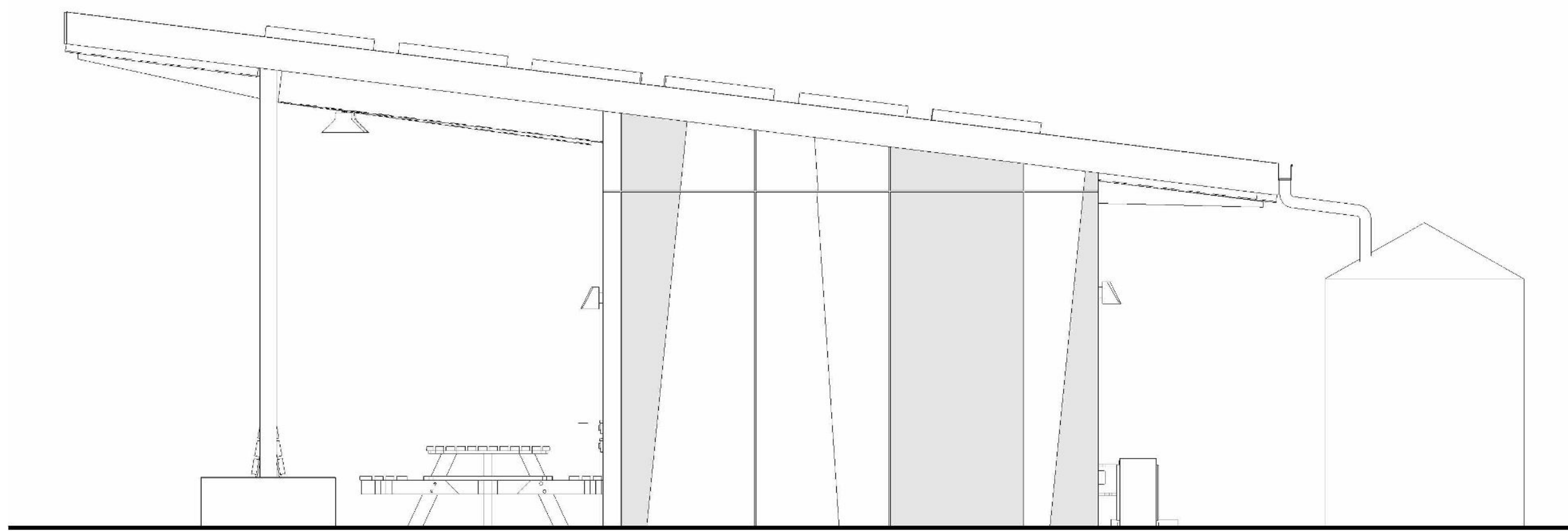
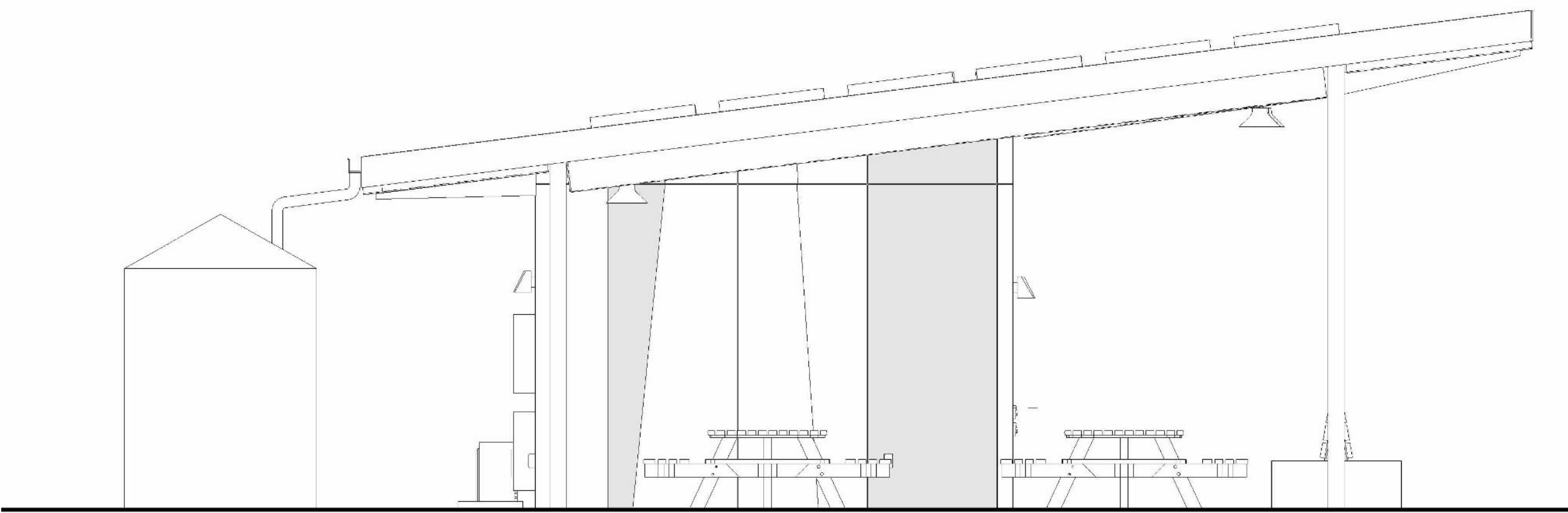
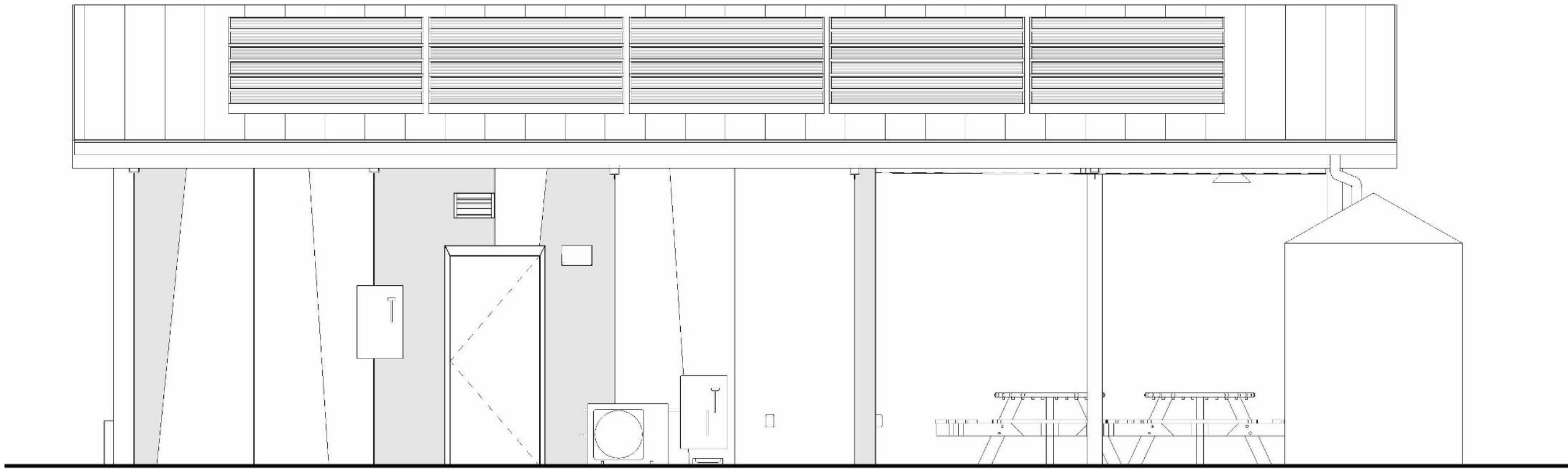


2 CORNER TRIM DETAIL
WS-A203 6" = 1'-0"

NOTE: PROVIDE CONTINUOUS POWDER COATED ALUMINUM TRIM ON ALL OUTSIDE CORNERS. SEE FLOOR PLAN AND DETAILS FOR LOCATION CALLOUTS.



- NOTES:
1. IMAGE IS FOR REFERENCE, CONFIRM LAYOUT THROUGH SHOP DRAWINGS
 2. CENTER VERTICAL PANEL JOINTS WITH THE CENTER OF STEEL BEAMS ABOVE
 3. SEE WS-203 FOR HIGH DENSITY FIBER CEMENT PANEL PATTERN AND PLACEMENT

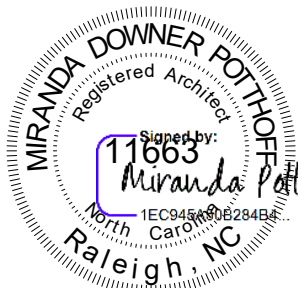


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EXTERIOR PANEL
LAYOUT

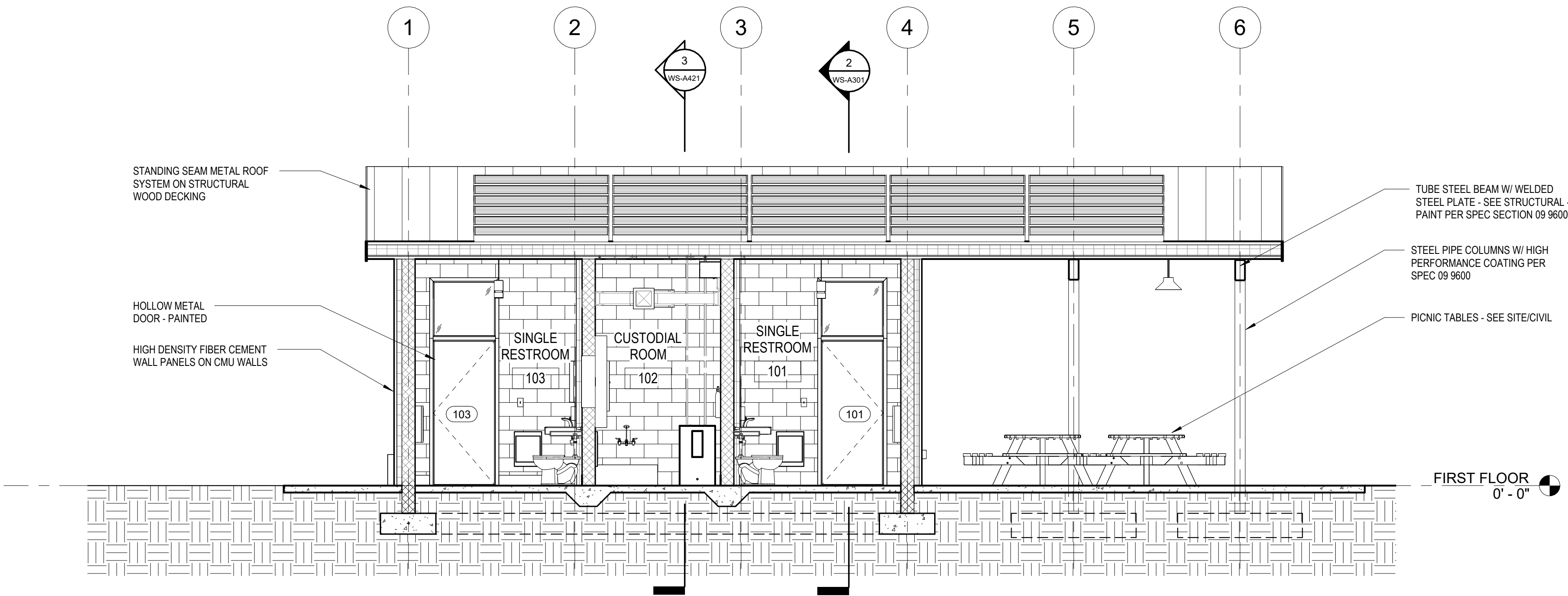
LAKE MYRA COUNTY PARK
Wake County, NC



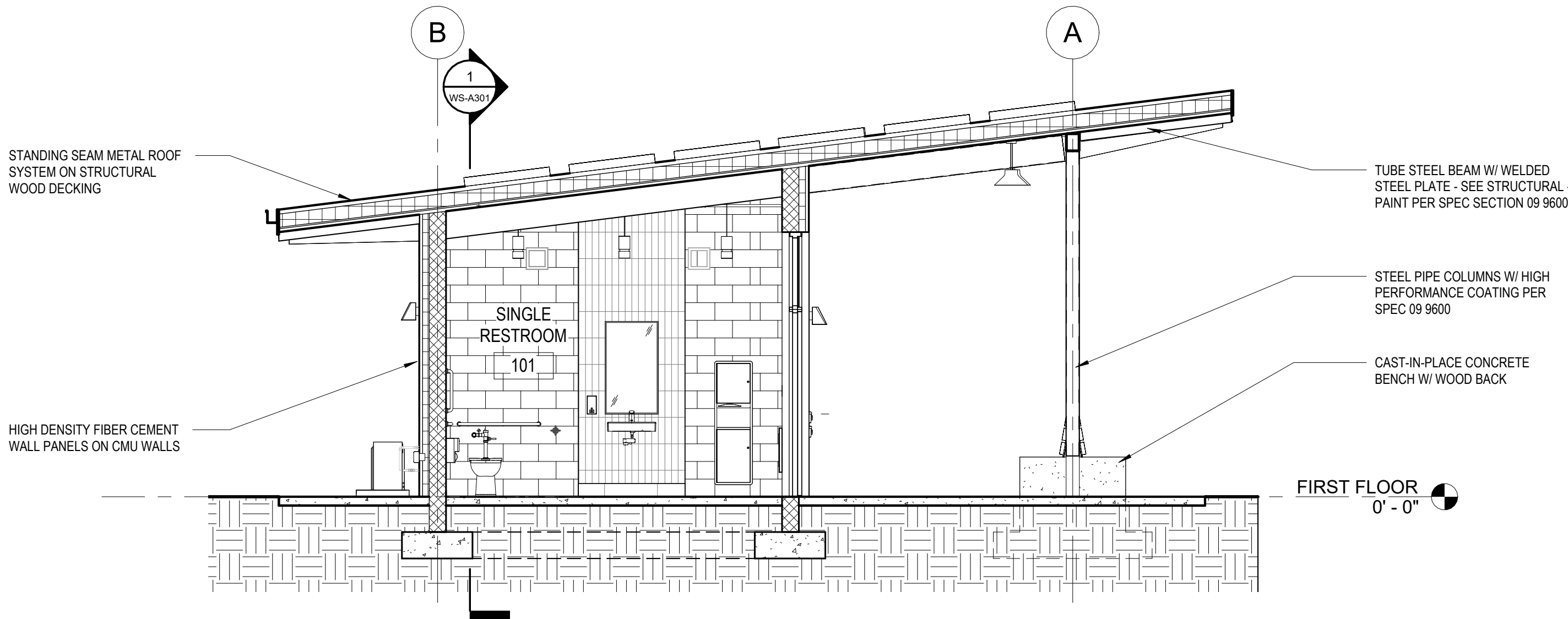
REVISIONS

Date: 07/27/26

WS-A204



1 WEST PARCEL SHELTER - RESTROOM LONGITUDINAL SECTION
1/4" = 1'-0"



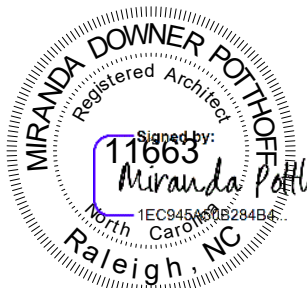
2 WEST PARCEL SHELTER - RESTROOM SECTION
1/4" = 1'-0"

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SHELTER - BUILDING
SECTIONS

LAKE MYRA COUNTY PARK
Wake County, NC

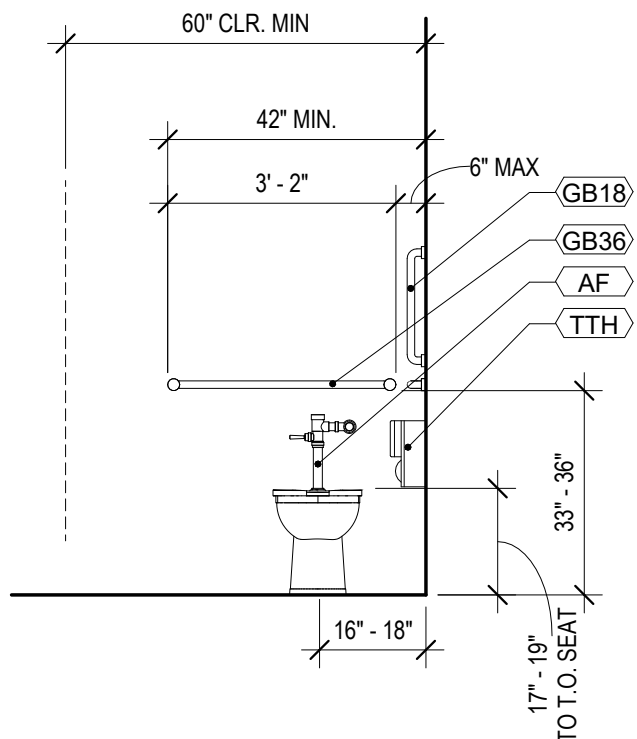


REVISIONS

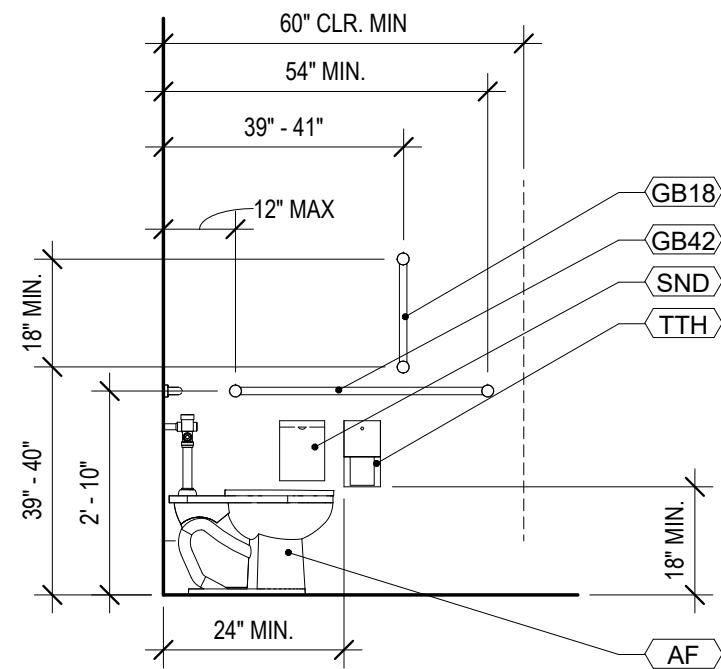
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WS-A301

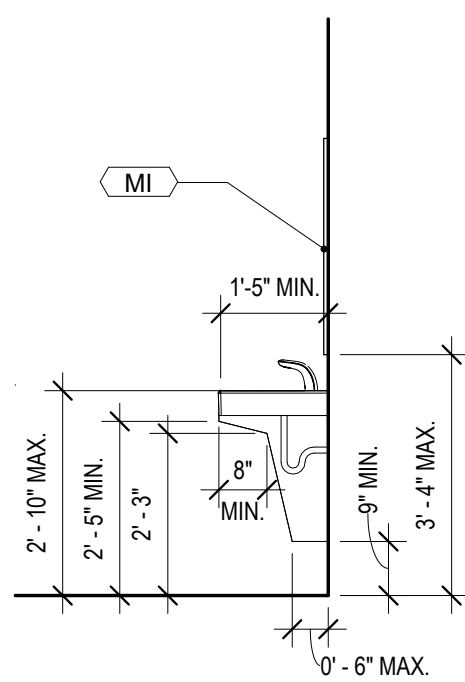
NOTE: FLUSH VALVE
MUST BE MOUNTED
TO THE WIDE SIDE
OF THE STALL.



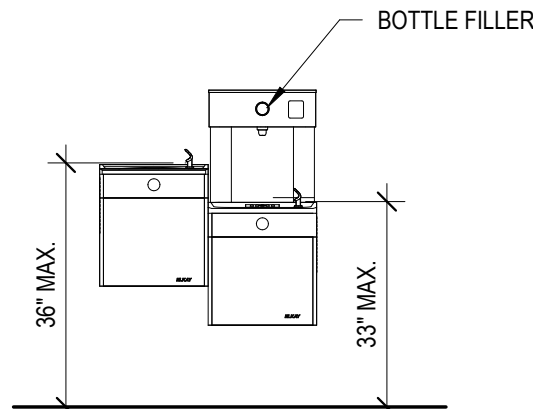
A
ADA TOILET STALL,
FRONT ELEVATION



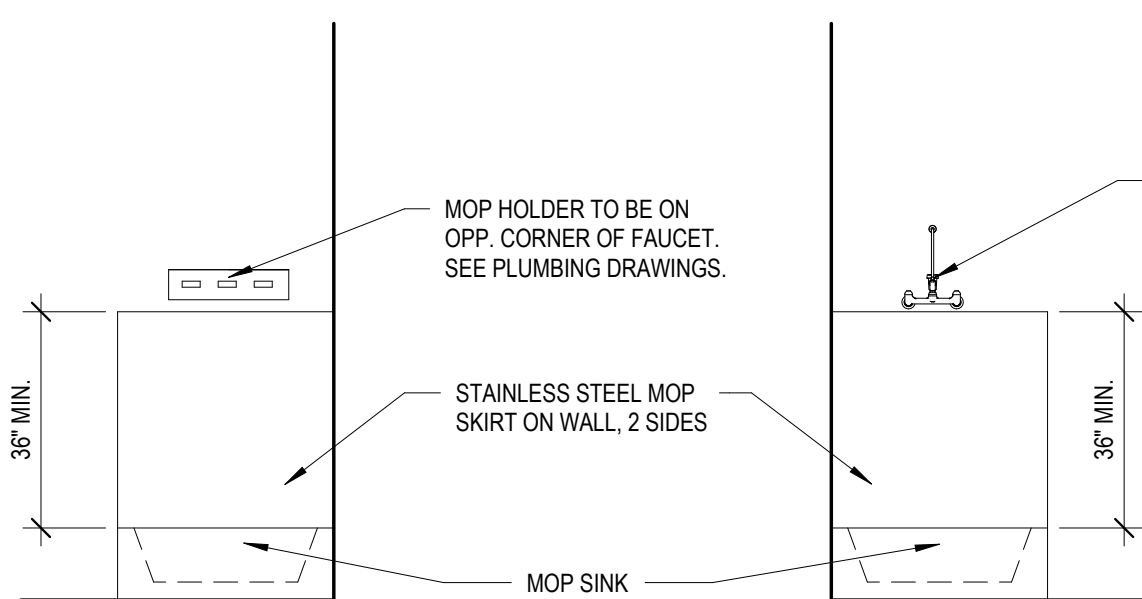
A
ADA TOILET STALL,
SIDE ELEVATION



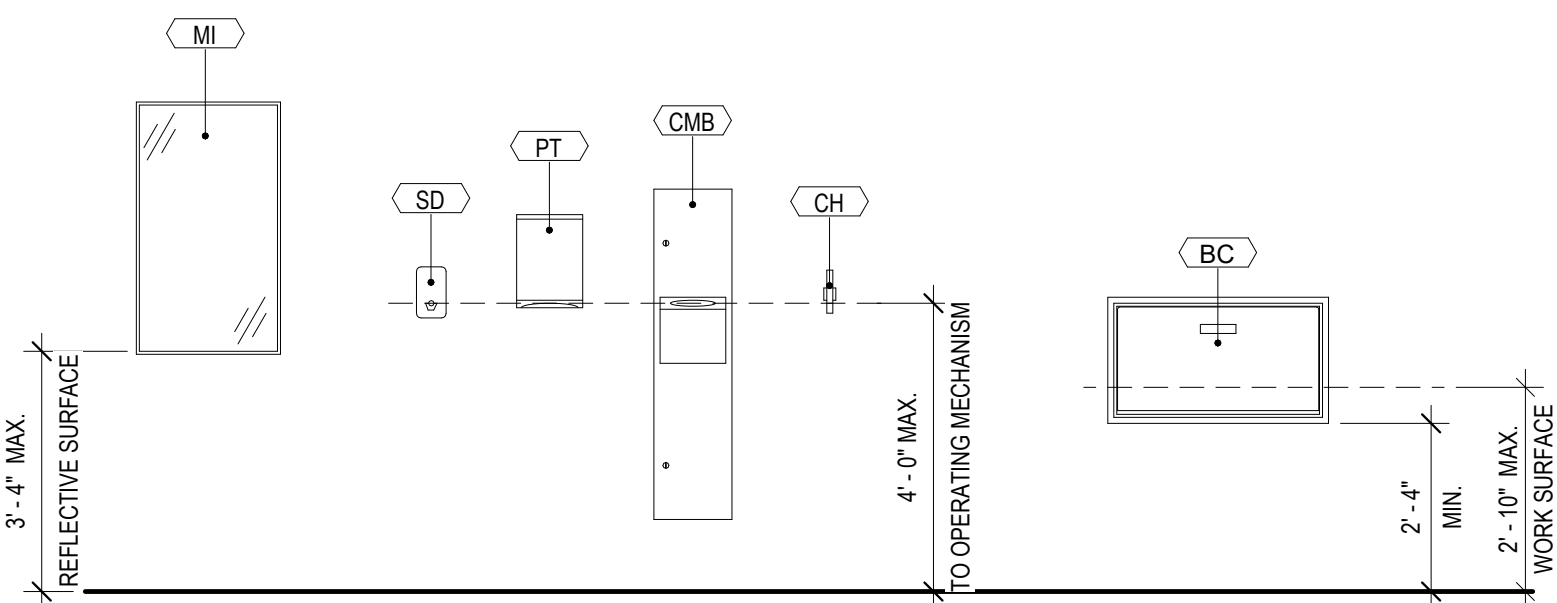
E
ADA WALL - MOUNTED SINK,
SIDE ELEVATION



J
ADA WATER FOUNTAIN,
FRONT ELEVATION



K
MOP SINK,
TYPICAL SIDE ELEVATIONS



TOILET ACCESSORY MOUNTING HEIGHTS

SYMBOL LEGEND	
X-X	FINISH TAG
X	TOILET ASSEMBLY TAG. SEE A400 FOR ADDITIONAL INFORMATION
#	TOILET ACCESSORIES LEGEND
AF	ACCESSIBLE FIXTURE
BC	BABY CHANGING STATION - SURFACE MOUNTED
CF	CLEAR FLOOR SPACE 30" x 52"
CH	COAT HOOK
CMB	COMBINED PAPER TOWEL/TRASH
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
GB18	GRAB BAR 18" LONG (VERTICAL)
GB32	GRAB BAR 32" LONG (REAR WALLS)
GB36	GRAB BAR 36" LONG (REAR WALLS)
GB42	GRAB BAR 42" LONG (SIDE WALLS)
MI	MIRROR 24" X 36"
PT	PAPER TOWEL DISPENSER
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
TD	67" ACCESSIBLE TURNING DIAMETER
TR	TRASH RECEPTACLE
TTH	TOILET TISSUE HOLDER
NOTES: 1. PLUMBING CONTRACTOR TO PROVIDE PROTECTIVE INSULATION AT HOT PIPES BELOW LAVATORY PER ACCESSIBILITY CODE. 2. FLUSH CONTROL VALVES AT ACCESSIBLE TOILETS TO BE MOUNTED ON THE WIDE SIDE OF TOILET STALL OR ROOM. 3. SEE SPECIFICATIONS FOR DETAILS OF TOILET ACCESSORIES. 4. ALL TOILET PARTITIONS ARE FLOOR MOUNTED AND OVERHEAD BRACED. 5. SLOPE SLAB TO DRAIN INTO FLOOR DRAINS. THRESHOLDS SLOPE IN DOOR OPENINGS SHALL NOT EXCEED 1/8 SLOPE OR 1/2" IN HEIGHT PER ACCESSIBILITY CODE.	

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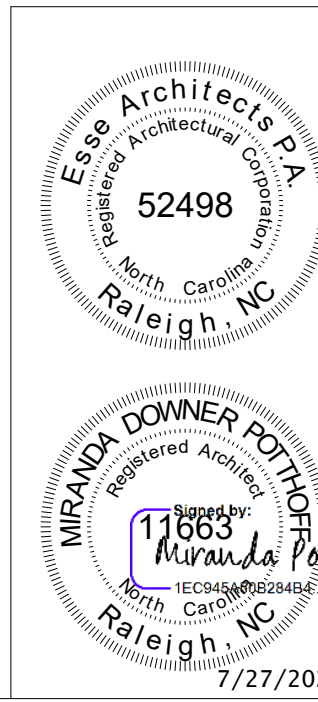
TYPICAL TOILET AND
BATH ACCESSORIES

LAKE MYRA COUNTY PARK
Wake County, NC

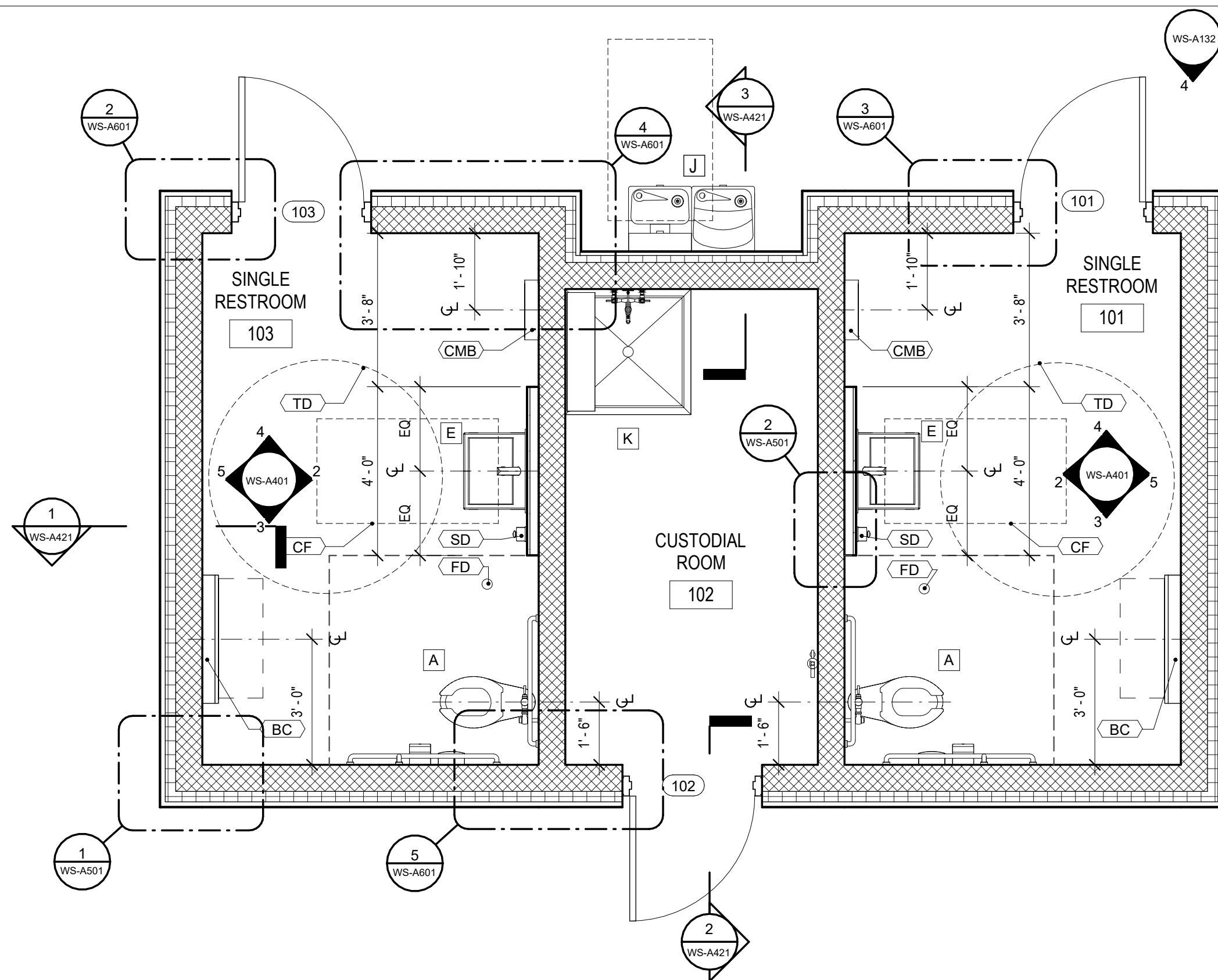
REVISIONS

Date: 07/27/26

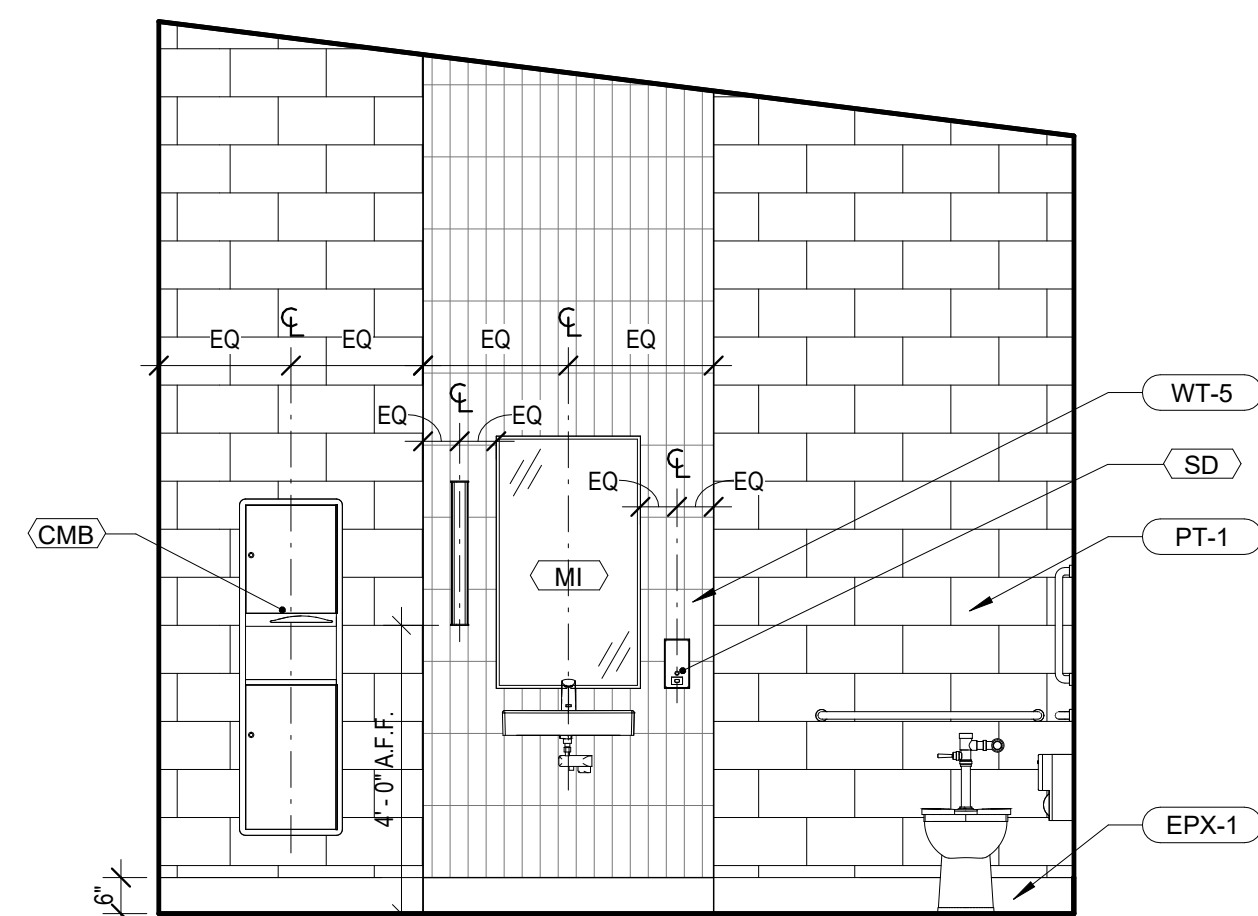
WS-A400



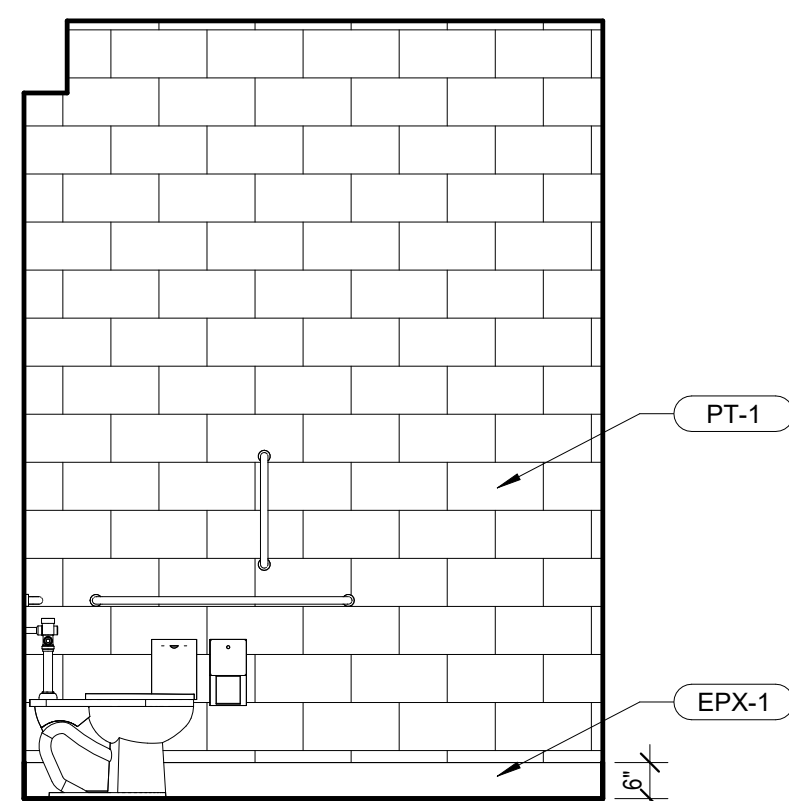
7/27/2026



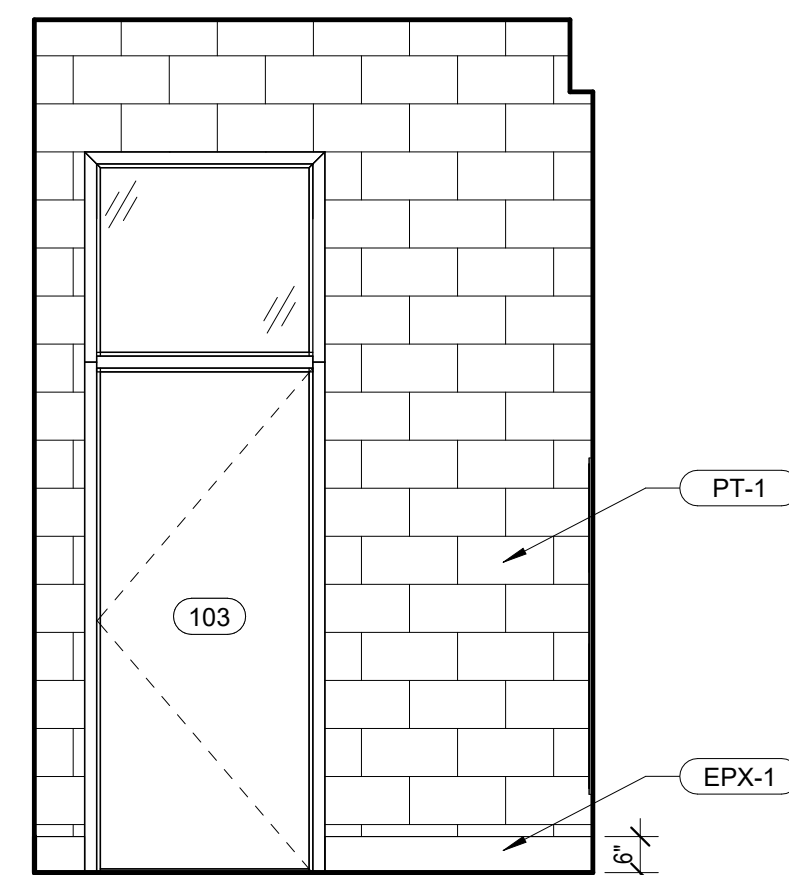
SYMBOL LEGEND	
	FINISH TAG
	TOILET ASSEMBLY TAG. SEE A400 FOR ADDITIONAL INFORMATION
TOILET ACCESSORIES LEGEND	
AF	ACCESSIBLE FIXTURE
BC	BABY CHANGING STATION - SURFACE MOUNTED
CF	CLEAR FLOOR SPACE 30" x 52"
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TD	67" ACCESSIBLE TURNING DIAMETER
TR	TRASH RECEPTACLE
TTT	TOILET TISSUE HOLDER
NOTES:	
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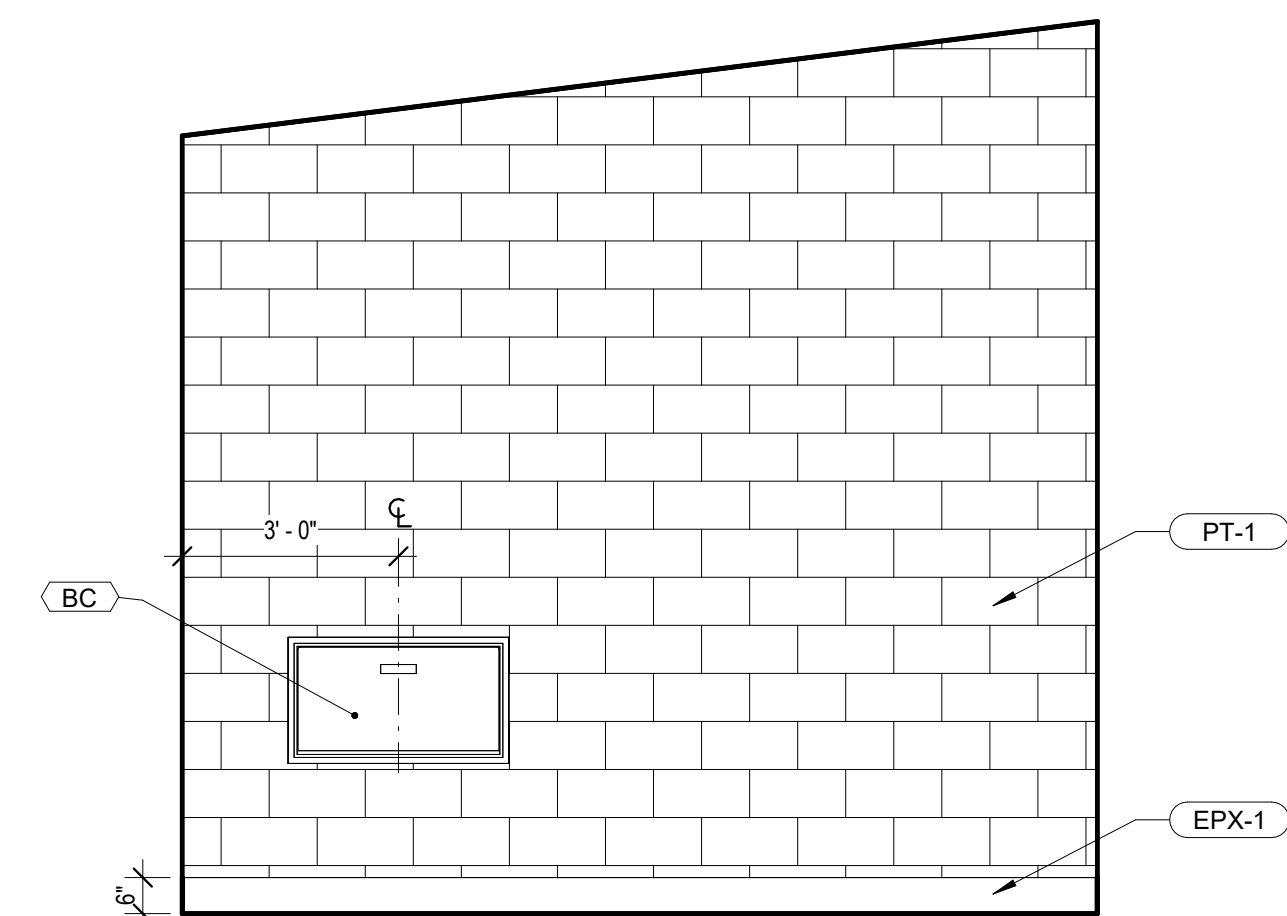
2 SINGLE RESTROOM (101 & 103) - WET WALL
WS-A401 3/8" = 1'-0"



3 SINGLE RESTROOM (101 & 103) - BACK WALL
WS-A401 3/8" = 1'-0"



4 SINGLE RESTROOM (101 & 103) - ENTRY WALL
WS-A401 3/8" = 1'-0"



5 SINGLE RESTROOM (101 & 103) - CHANGING STATION
WS-A401 3/8" = 1'-0"

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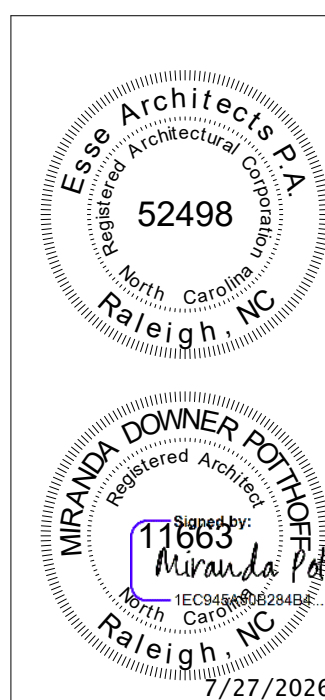
SHELTER - ENLARGED PLANS AND ELEVATIONS

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26

WS-A401

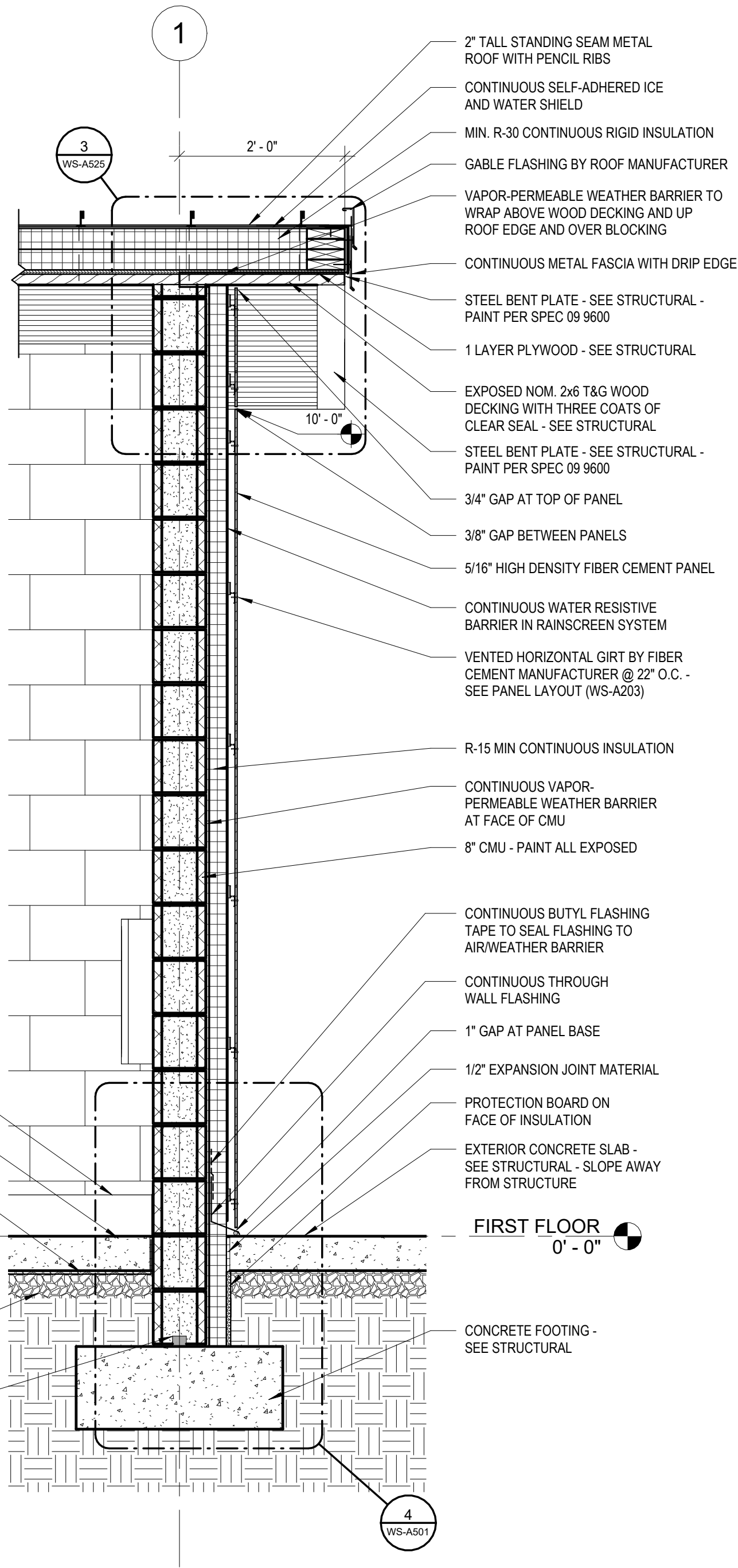


ROOF DECKING NOTES

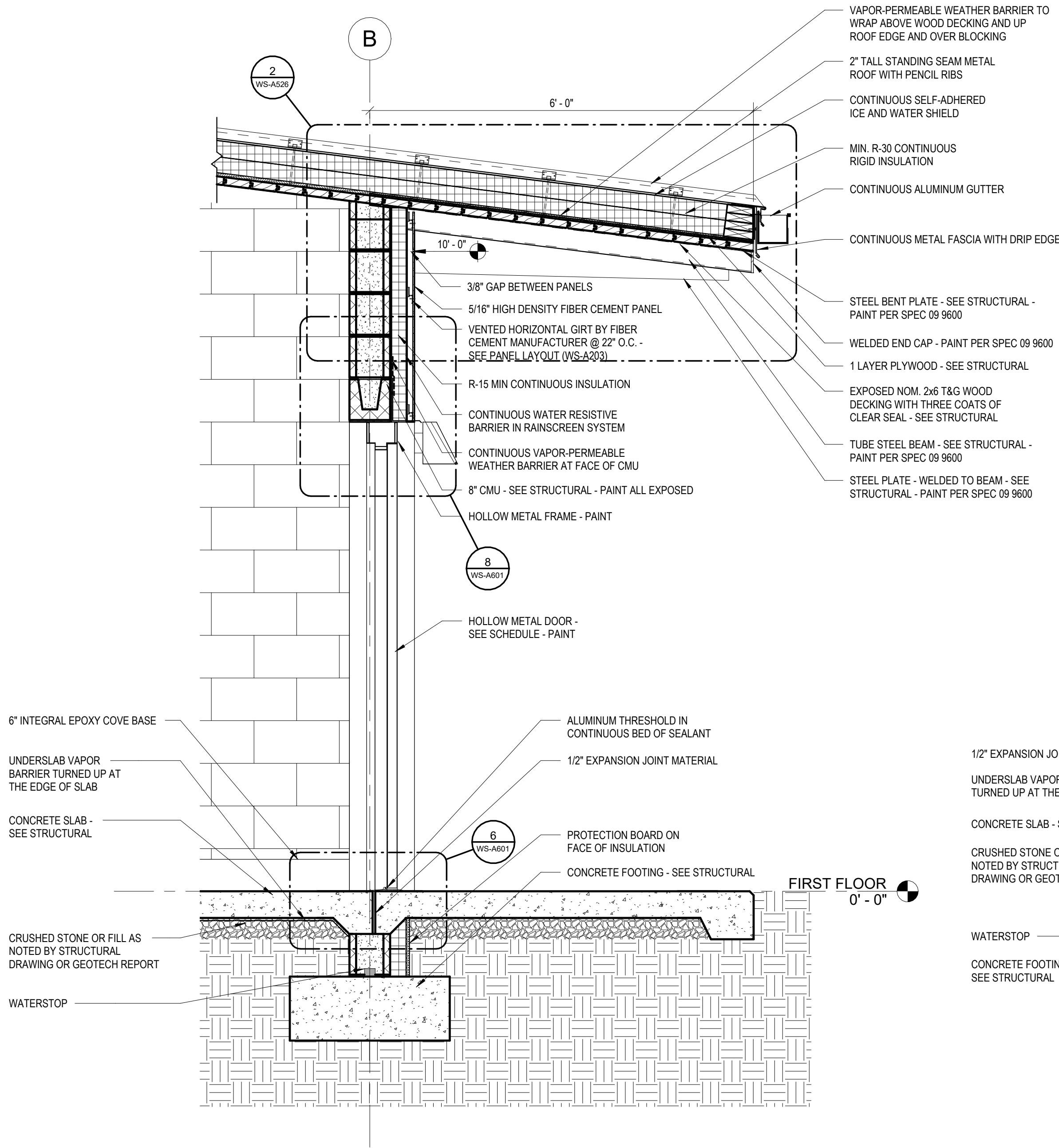
- STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED CEILING - **NO FASTENERS SHALL PENETRATE DECKING**
- NO EXPOSED CONDUIT SHALL BE RUN ACROSS UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND COORDINATION WITH THE ARCHITECT. COORDINATE FOR LIGHTING, SECURITY, ETC.

R-VALUE CALCULATION	
STANDING SEAM ROOF ON METAL DECK	
INTERIOR AIR FILM	R-0.68
2" WOOD ROOF DECK	R-1.88
1 LAYER PLYWOOD	R-0.62
POLYISO INSULATION	R-43.2
ICE AND WATER SHIELD	N/A
0.040 ALUMINUM PANELS	R-0.61
EXTERIOR AIR FILM	R-0.17
TOTAL R-VALUE R _T =	R-47.16
TOTAL U-VALUE 1/R _T =	U-0.02
REQUIRED U-VALUE =	U-0.032

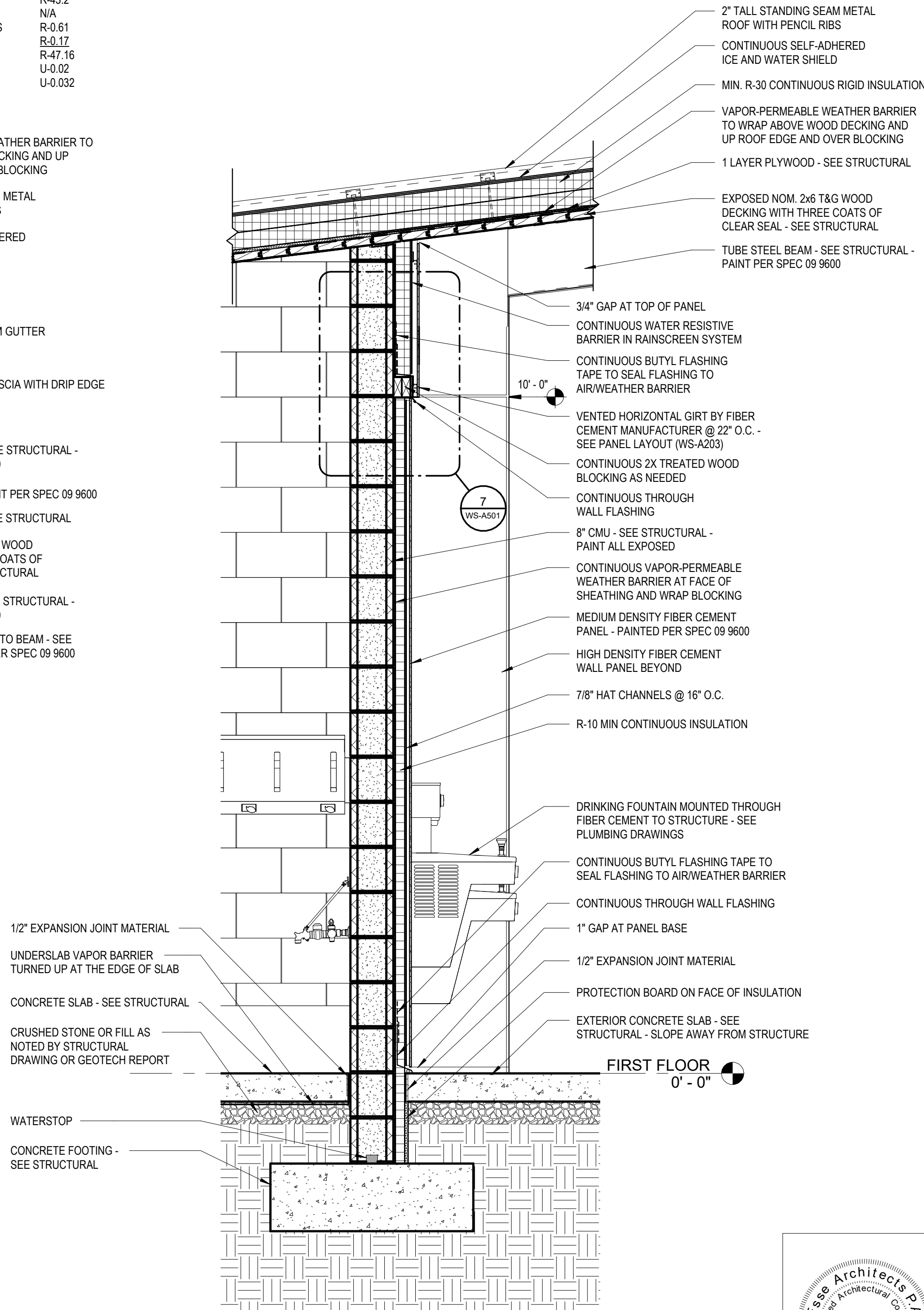
R-VALUE CALCULATION	
CMU WALL WITH FIBER CEMENT PANELS	
INTERIOR AIR FILM	R-0.68
8" CMU BLOCK	R-1.11
CONTINUOUS INSULATION	R-15
AIRSPACE	R-1.0
FIBER CEMENT PANELS	R-0.50
EXTERIOR AIRFILM	R-0.17
TOTAL R-VALUE R _T =	R-18.46
TOTAL U-VALUE 1/R _T =	U-0.05
REQUIRED U-VALUE =	U-0.104



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



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



3 WALL SECTION @ DRINKING FOUNTAIN
3/4" = 1'-0"

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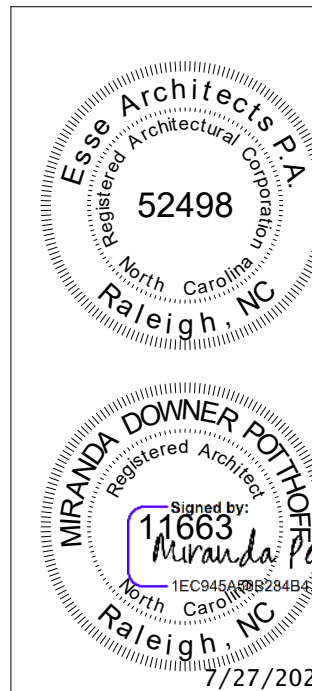
SHELTER - WALL SECTIONS

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26

WS-A421



SHELTER - WALL SECTIONS

LAKE MYRA COUNTY PARK
Wake County, NC

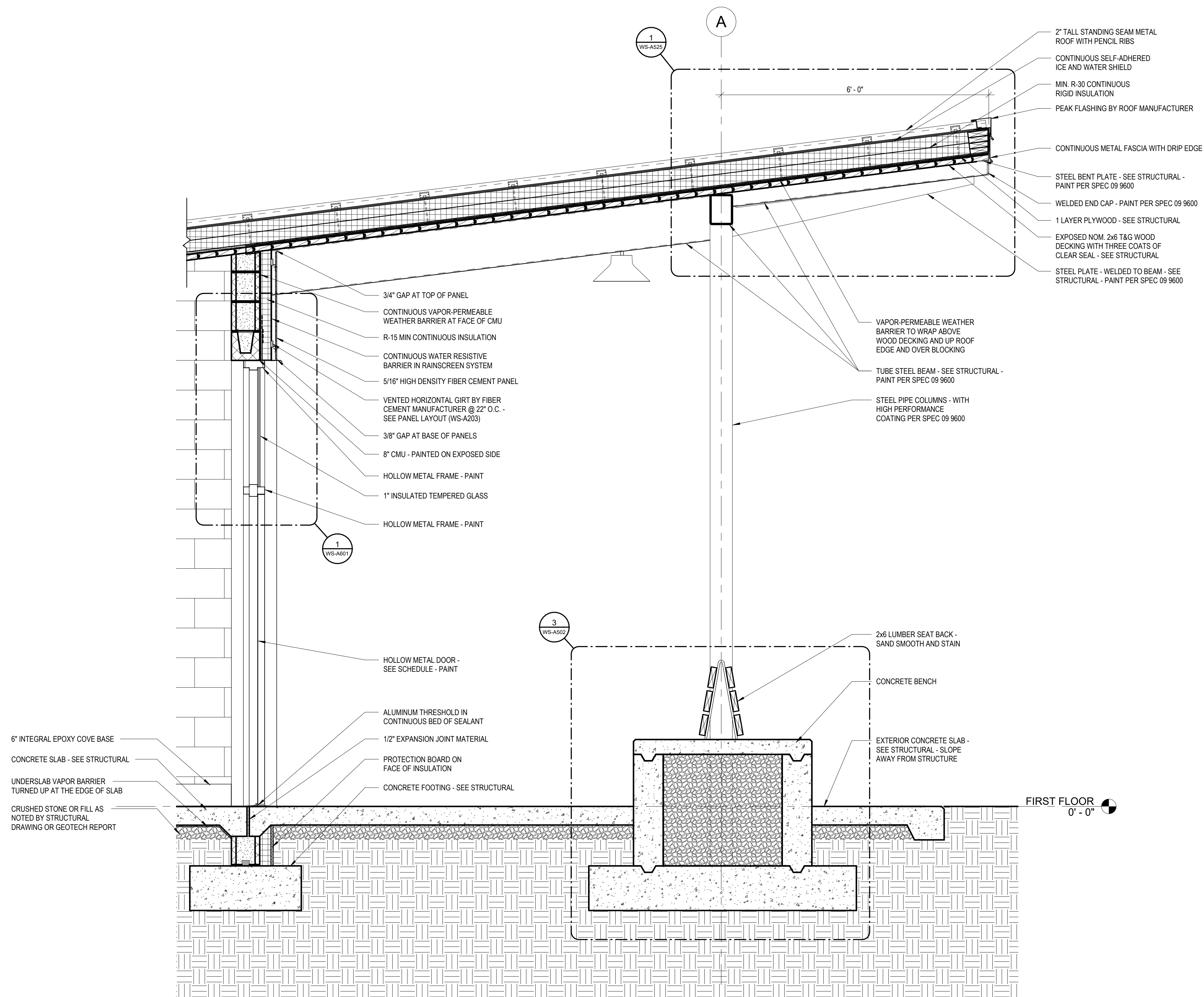
REVISIONS

Date: 07/27/26

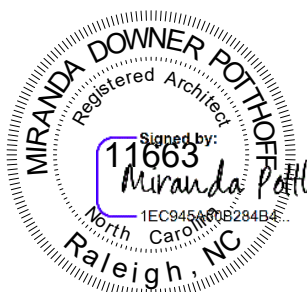
WS-A422

ROOF DECKING NOTES

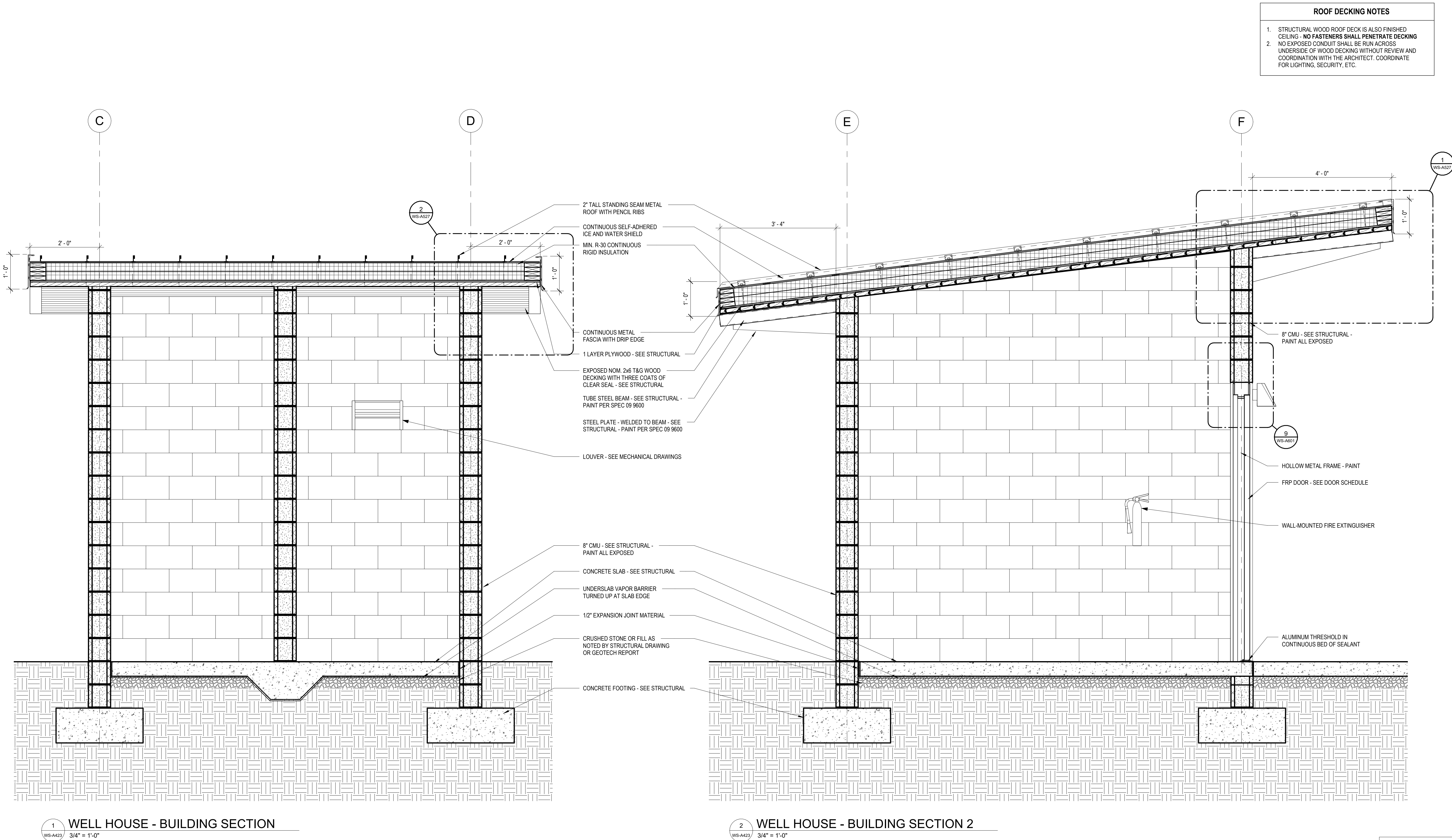
1. STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED
CEILING - **NO FASTENERS SHALL PENETRATE DECKING**
2. NO EXPOSED CONDUIT SHALL BE RUN ACROSS
UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND
COORDINATION WITH THE ARCHITECT. COORDINATE
FOR LIGHTING, SECURITY, ETC.



1 WALL SECTION @ RESTROOM ENTRIES
W/S-A422 3/4" = 1'-0"

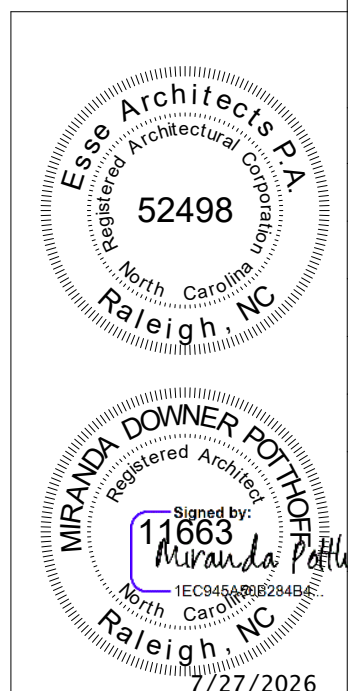


7/27/2026



1 WELL HOUSE - BUILDING SECTION
WS-A423 3/4" = 1'-0"

2 WELL HOUSE - BUILDING SECTION 2
WS-A423 3/4" = 1'-0"



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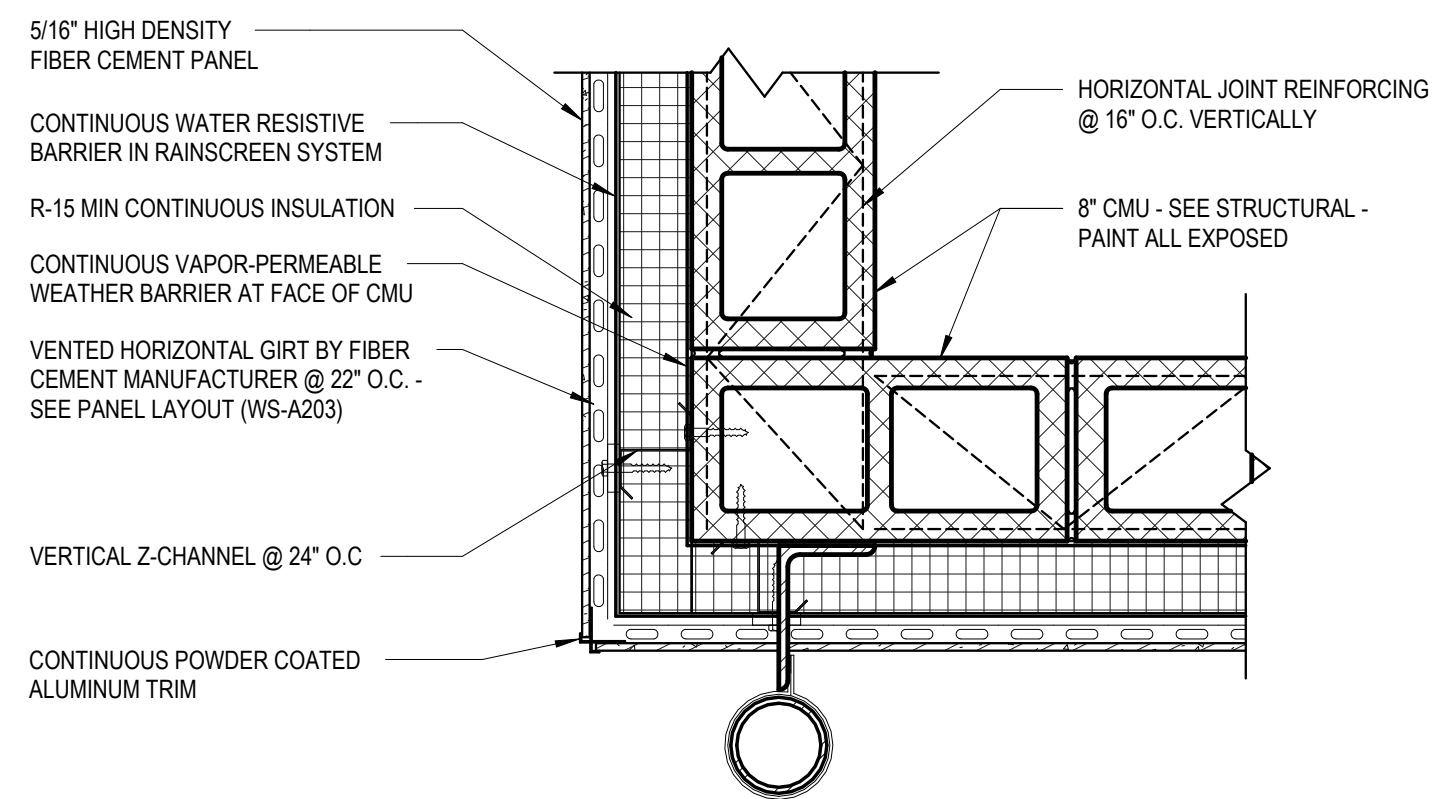


WELL HOUSE - WALL
SECTIONS

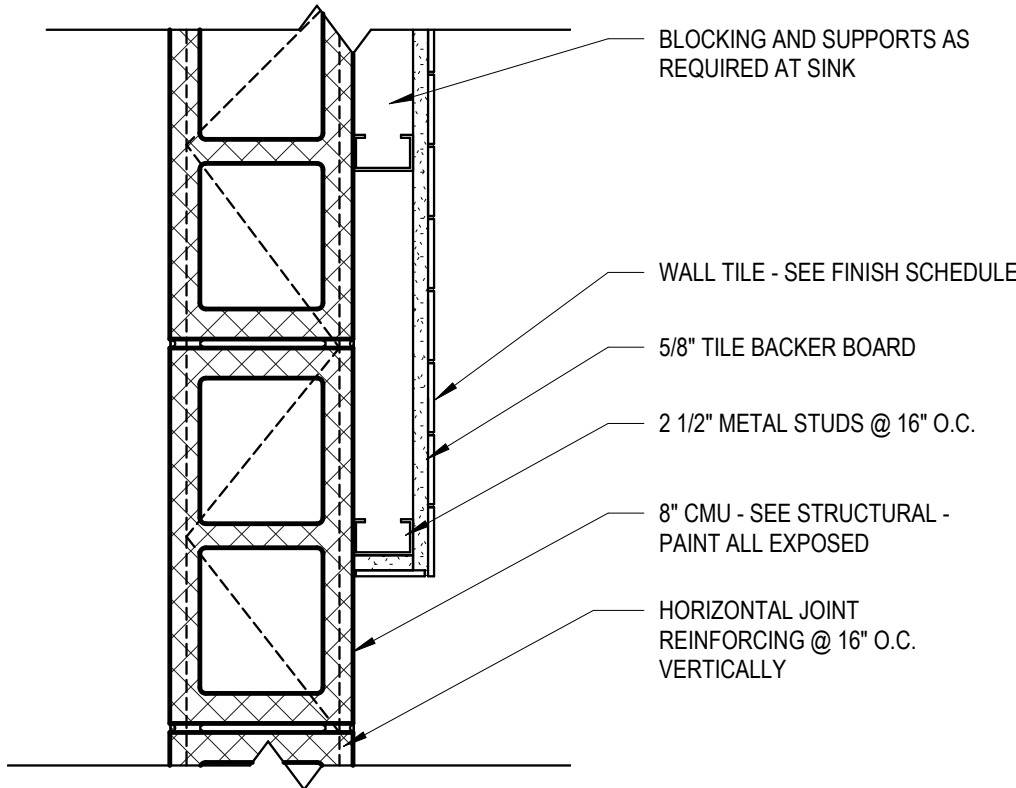
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

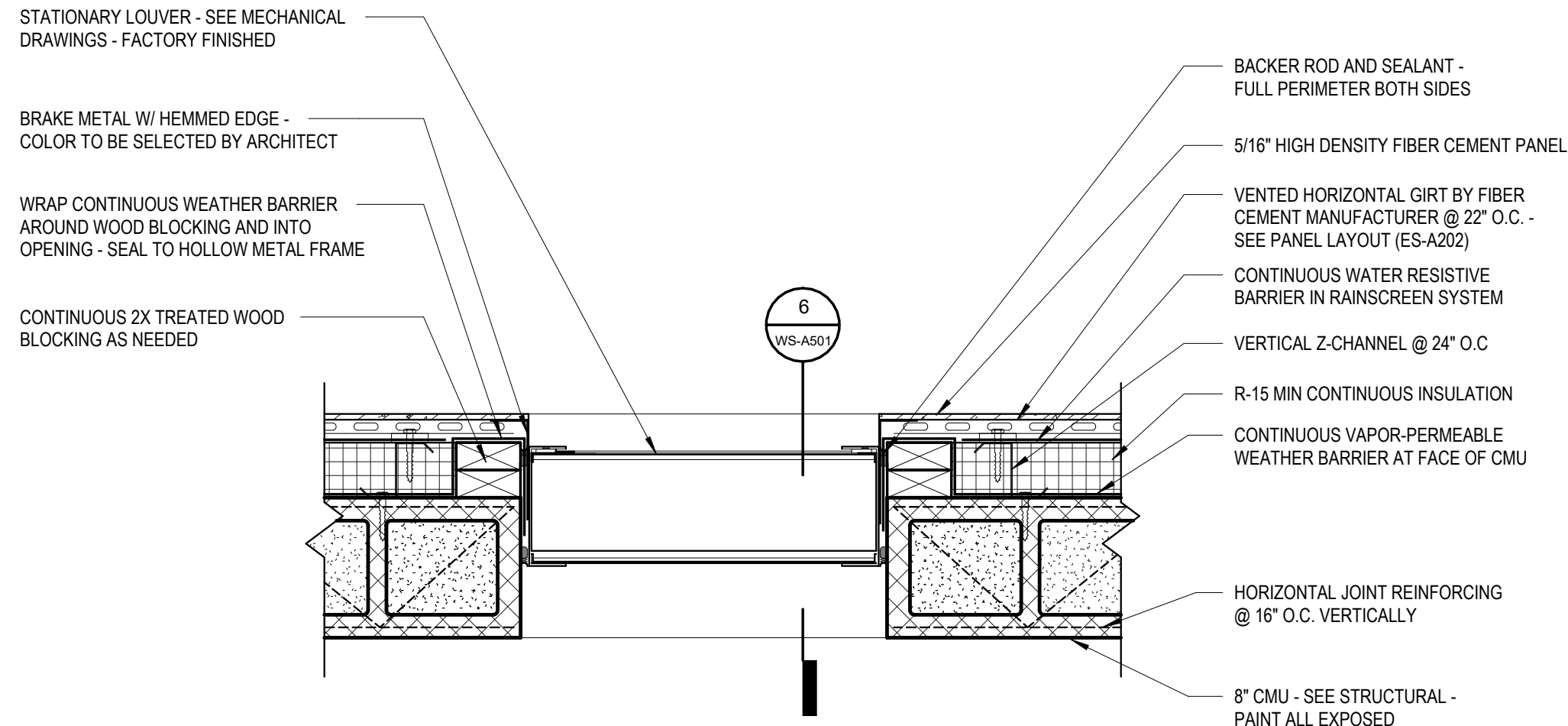
Date: 07/27/26
WS-A423



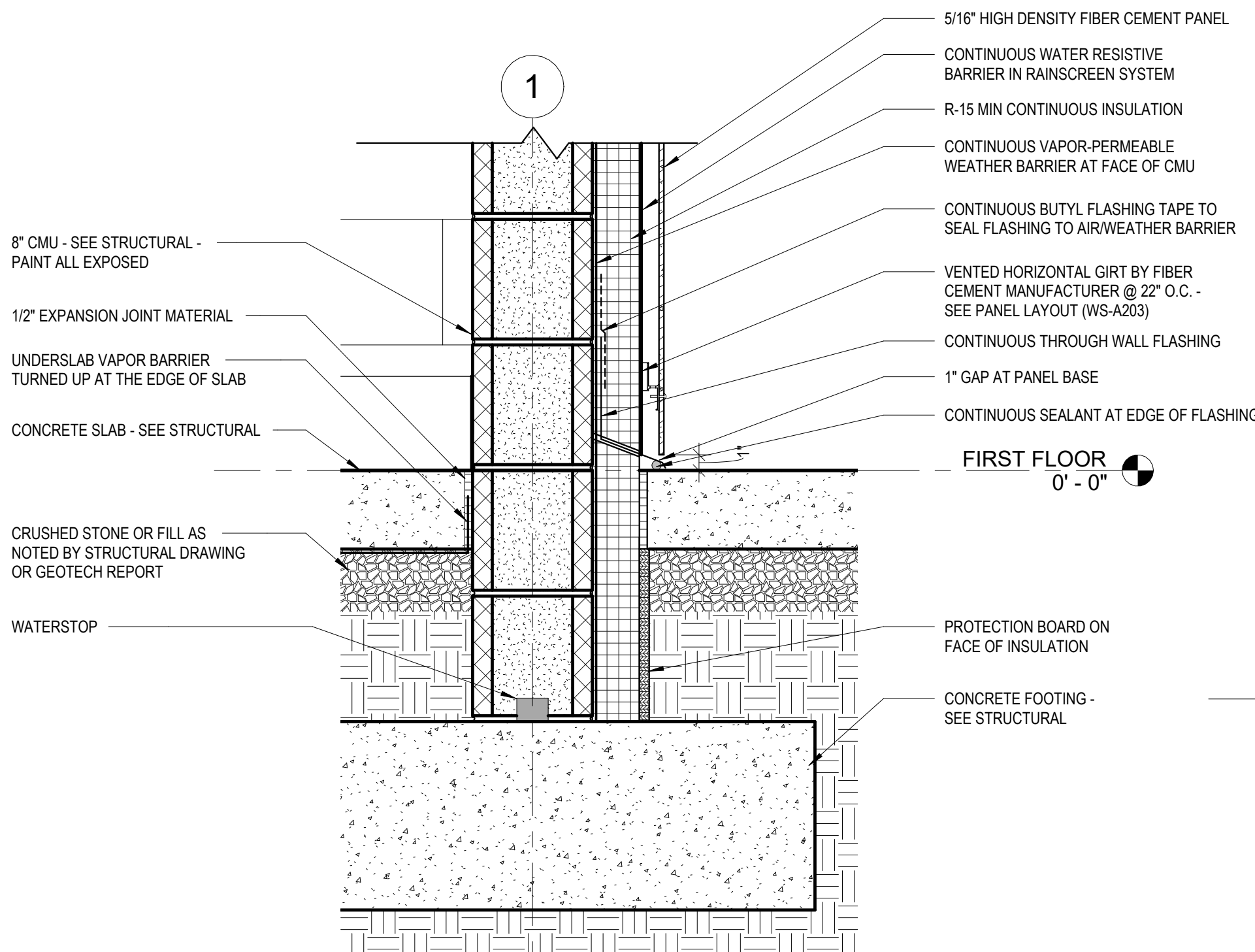
1 PLAN DETAIL @ OUTSIDE CORNER
WS-A501 1 1/2" = 1'-0"



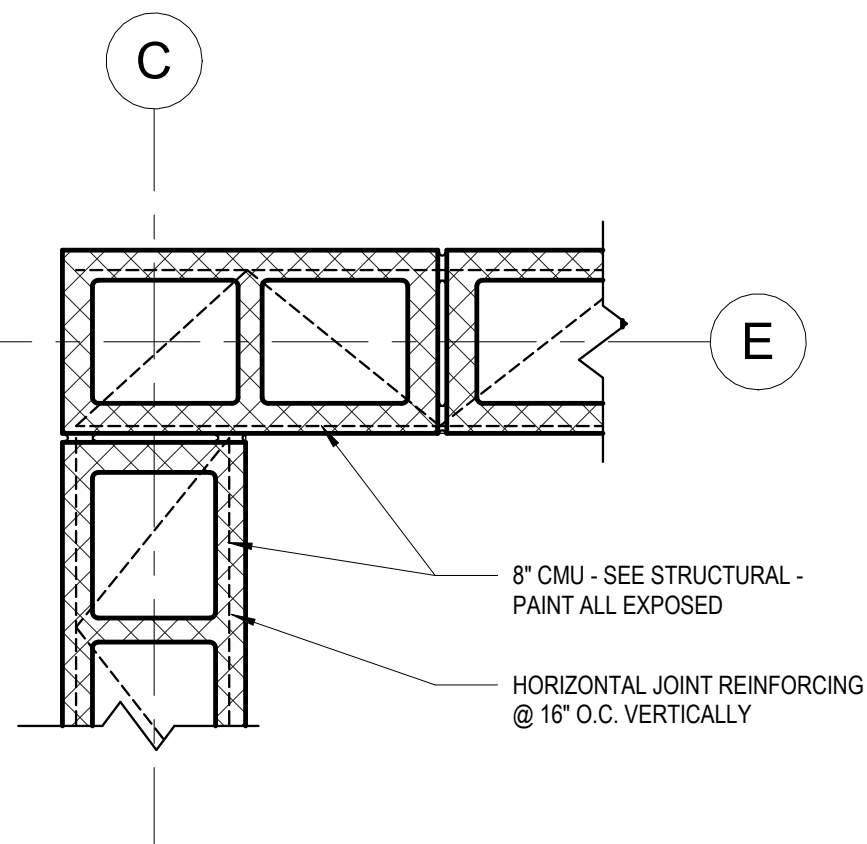
2 PLAN DETAIL @ FURRING
WS-A501 1 1/2" = 1'-0"



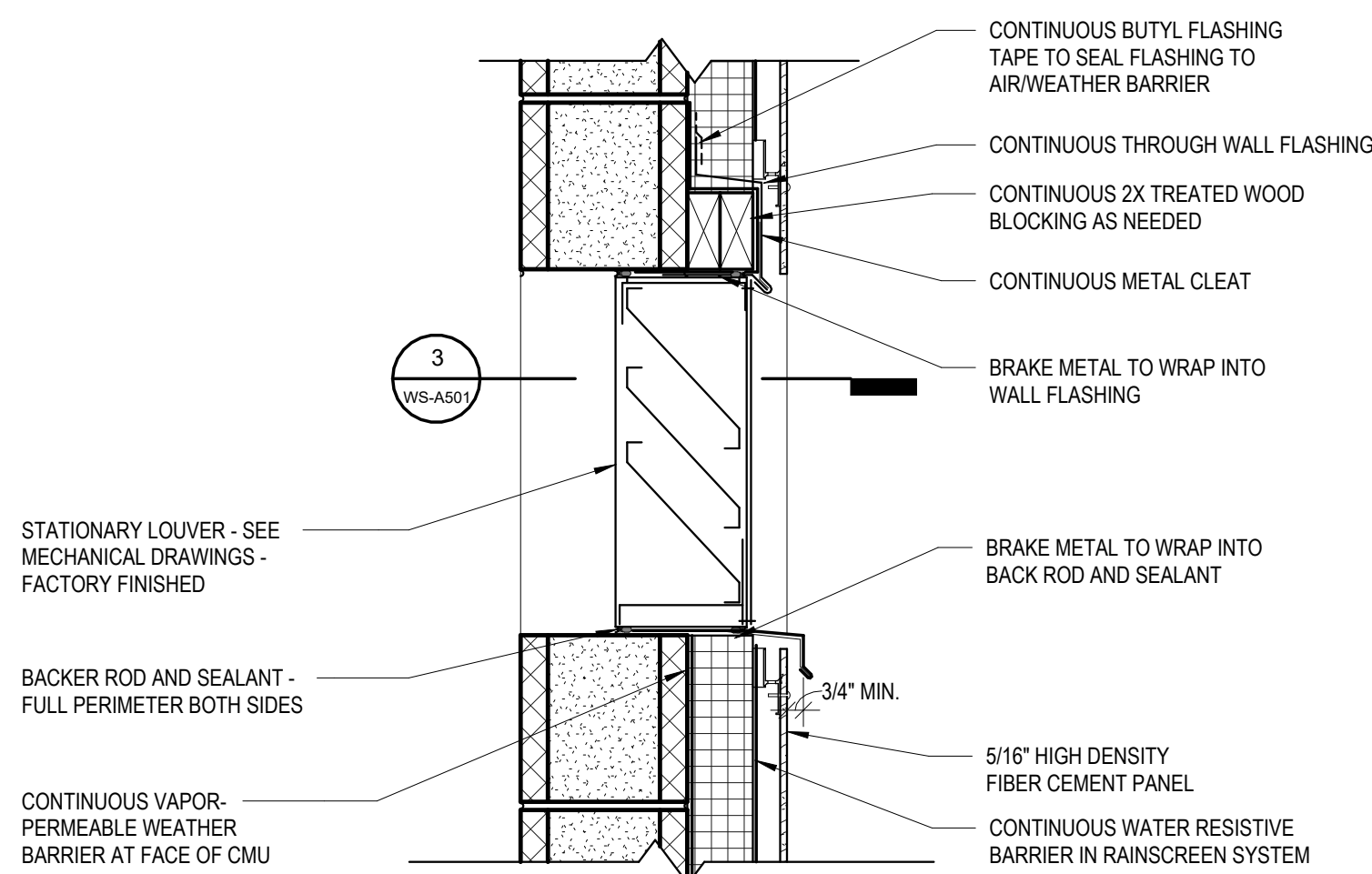
3 LOUVER PLAN DETAIL
WS-A501 1 1/2" = 1'-0"



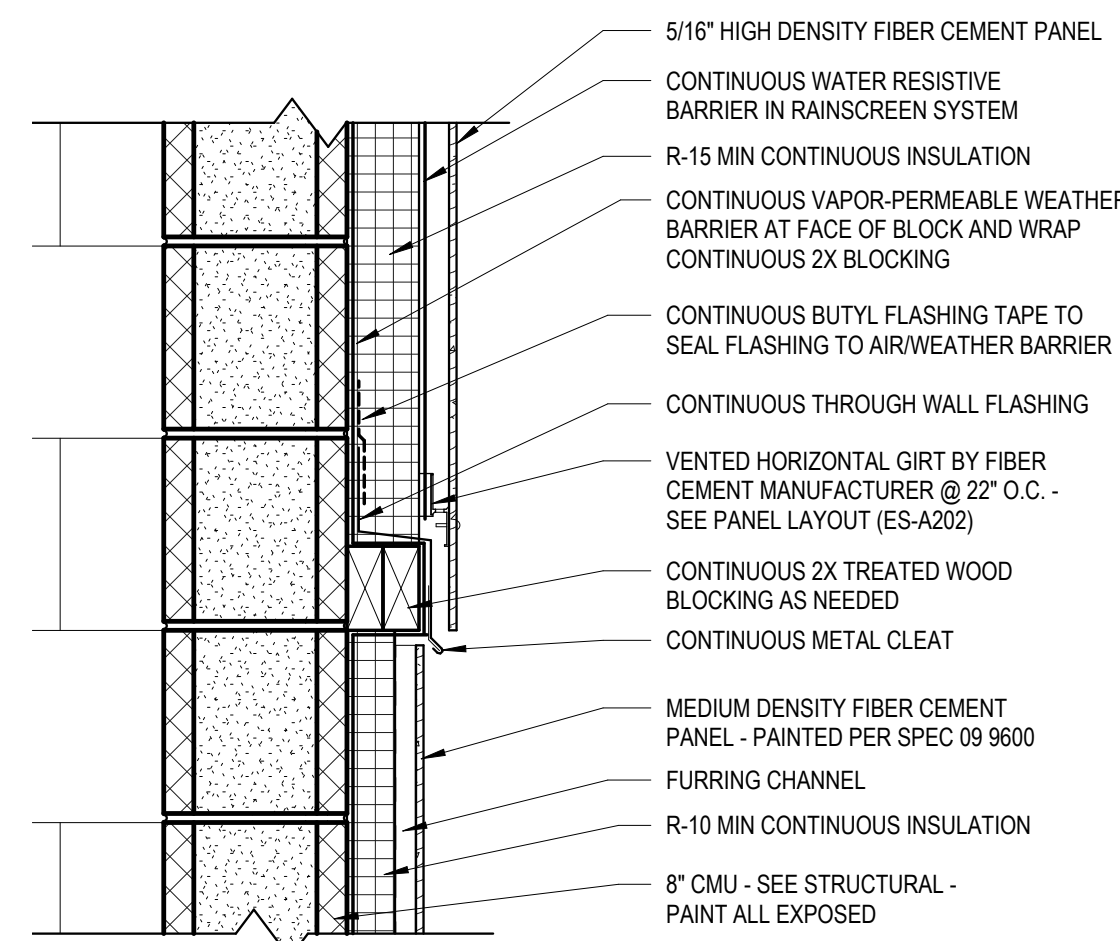
4 DETAIL @ PANEL BASE
WS-A501 1 1/2" = 1'-0"



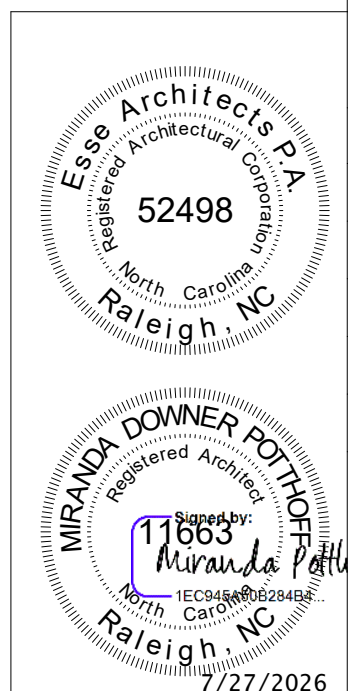
5 PLAN DETAIL @ WELL HOUSE OUTSIDE CORNER
WS-A501 1 1/2" = 1'-0"



6 LOUVER DETAIL
WS-A501 1 1/2" = 1'-0"



7 HEAD DETAIL @ DRINKING FOUNTAIN WALL
WS-A501 1 1/2" = 1'-0"



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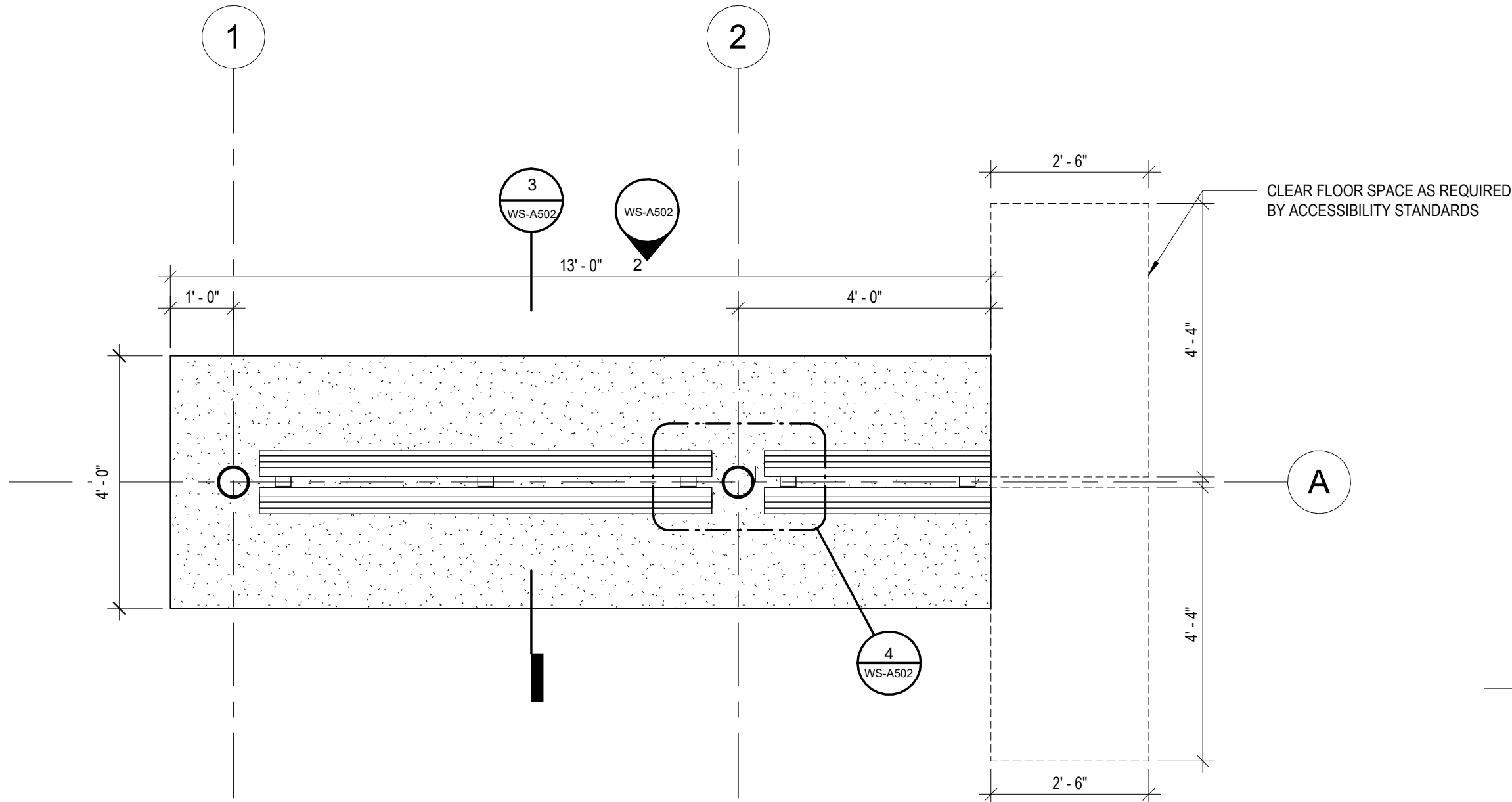
DETAILS

LAKE MYRA COUNTY PARK
Wake County, NC

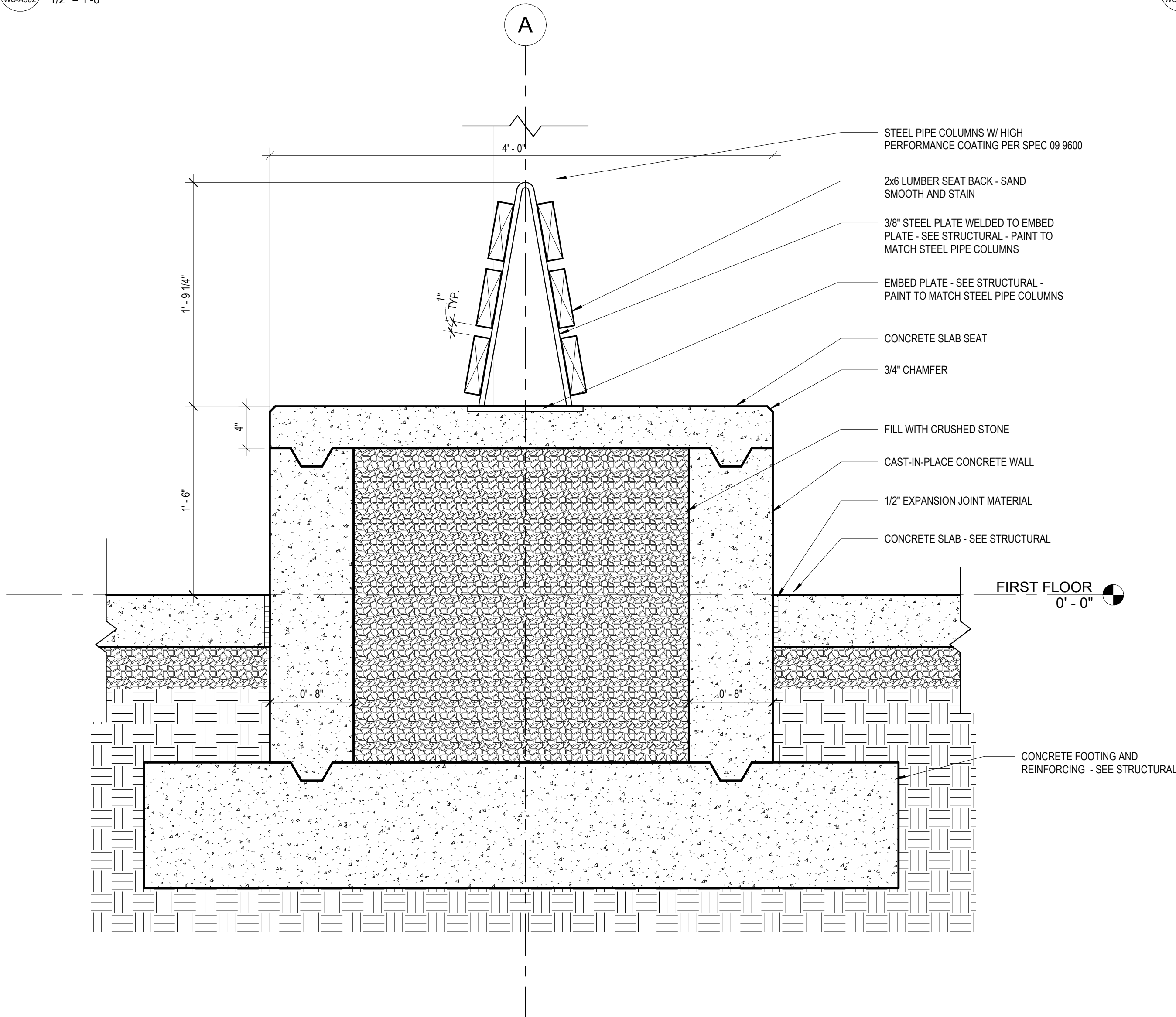
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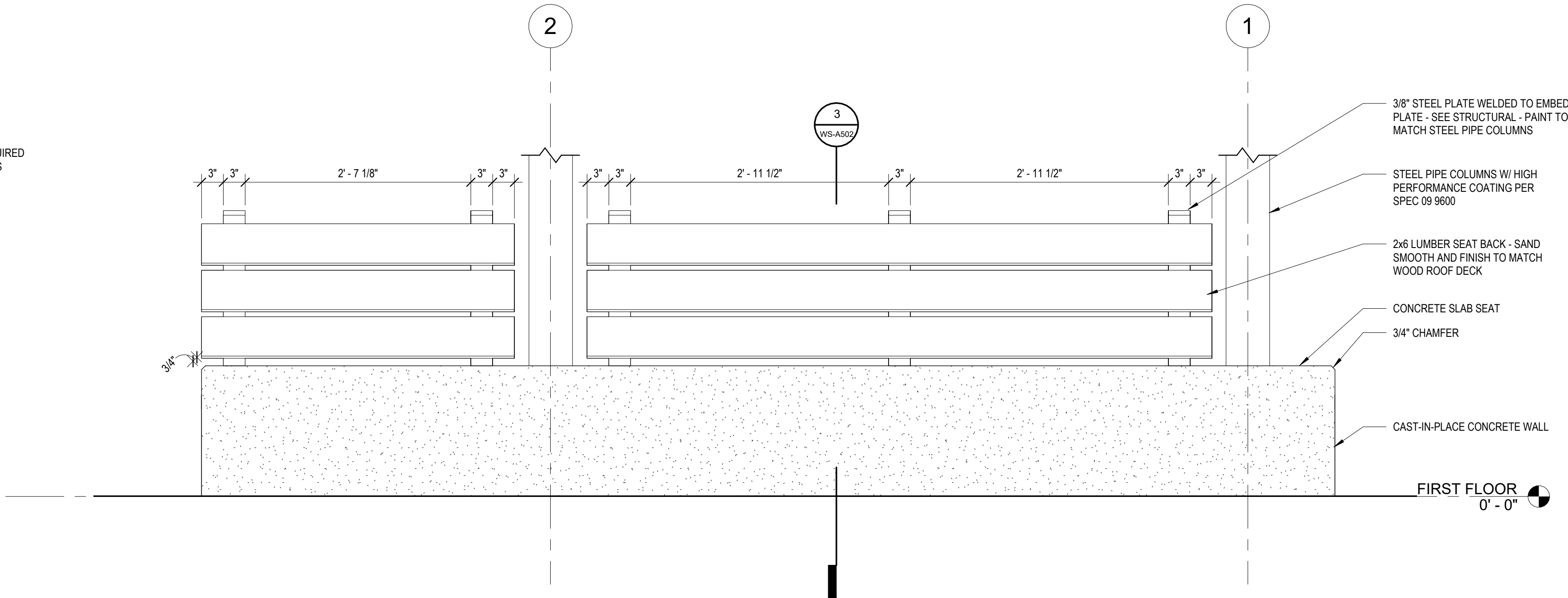
WS-A501



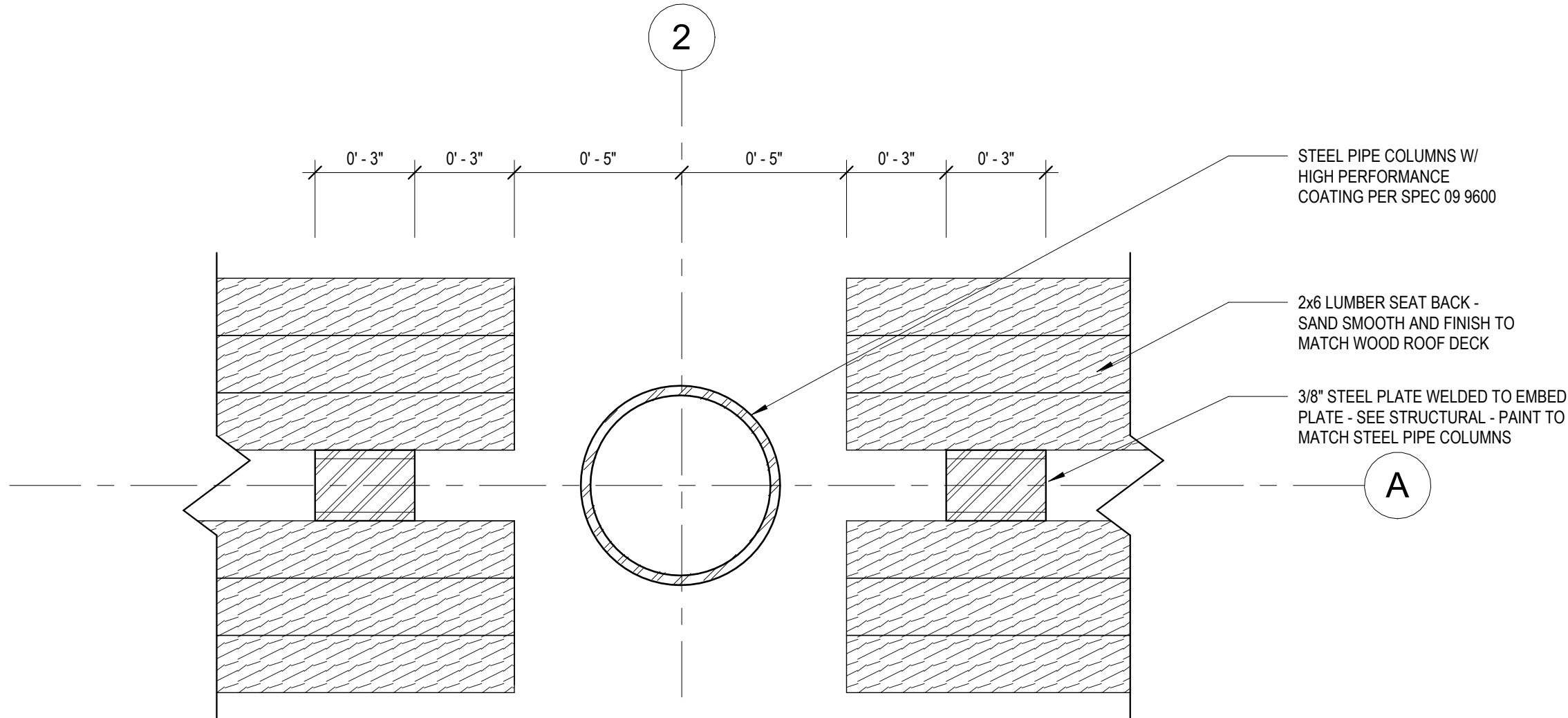
1 ENLARGED BENCH PLAN
1/2" = 1'-0"



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



2 BENCH ELEVATION
1" = 1'-0"



4 BENCH BACK DETAIL
3" = 1'-0"

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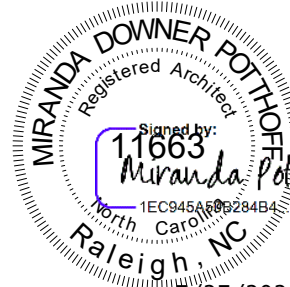
BENCH DETAILS

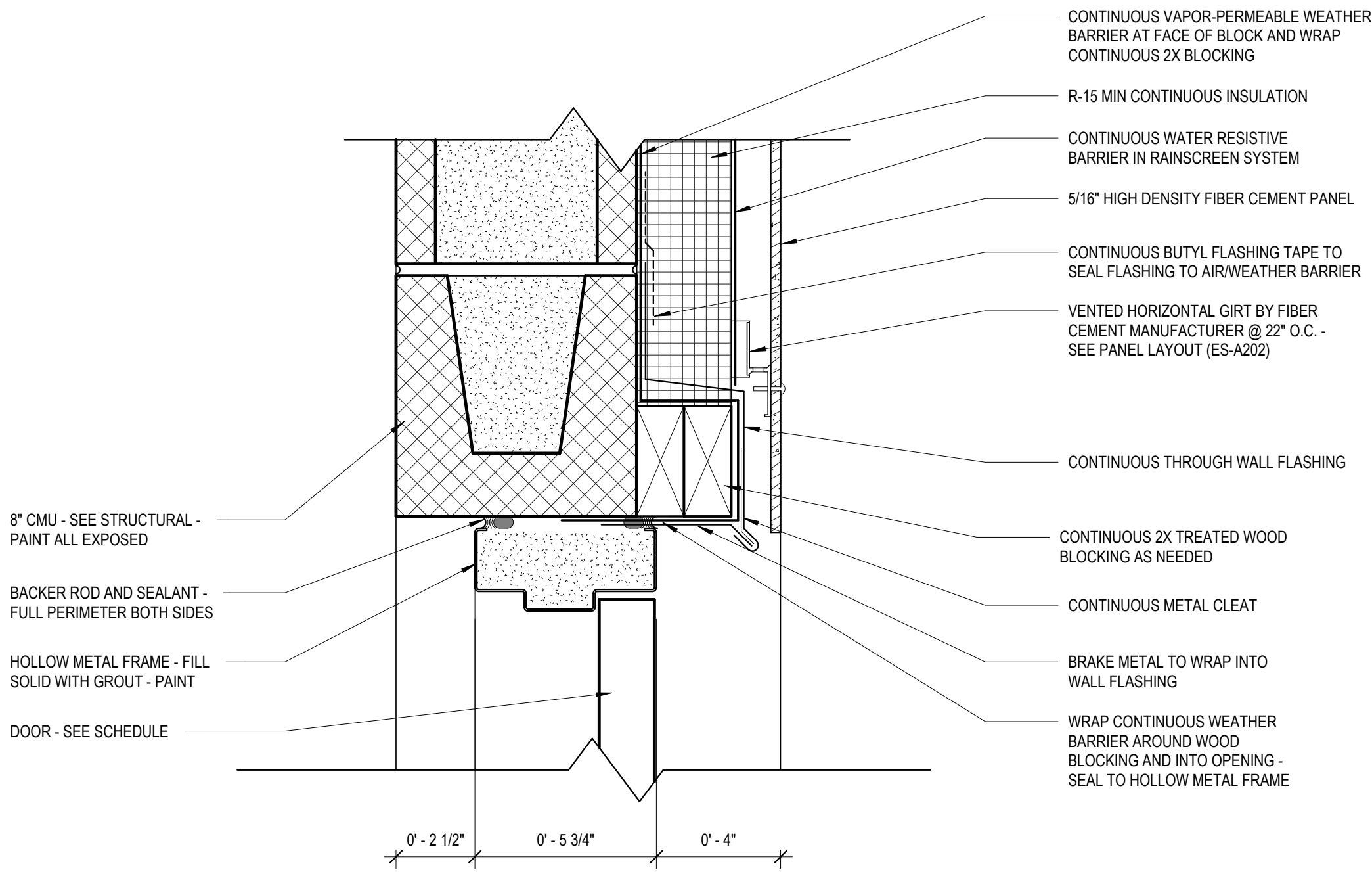
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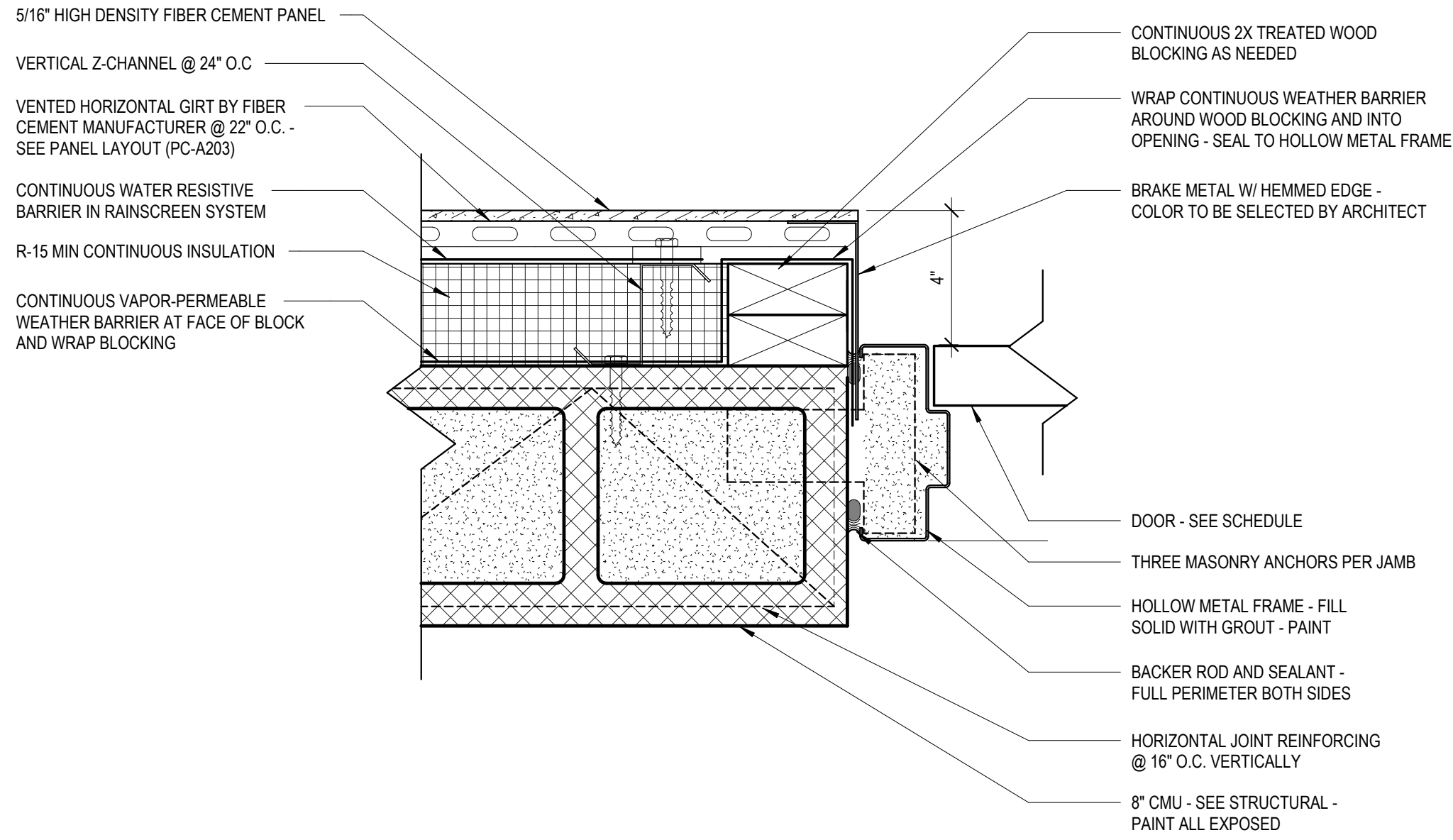
Date: 07/27/26

WS-A502





1 AIR BARRIER DETAIL @ HM DOOR HEAD
3" = 1'-0"



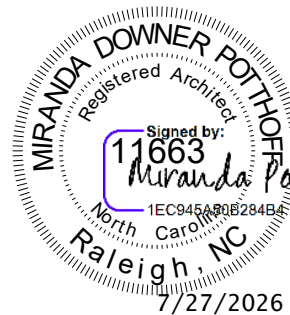
2 AIR BARRIER DETAIL @ HM DOOR JAMB
3" = 1'-0"

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AIR BARRIER DETAILS

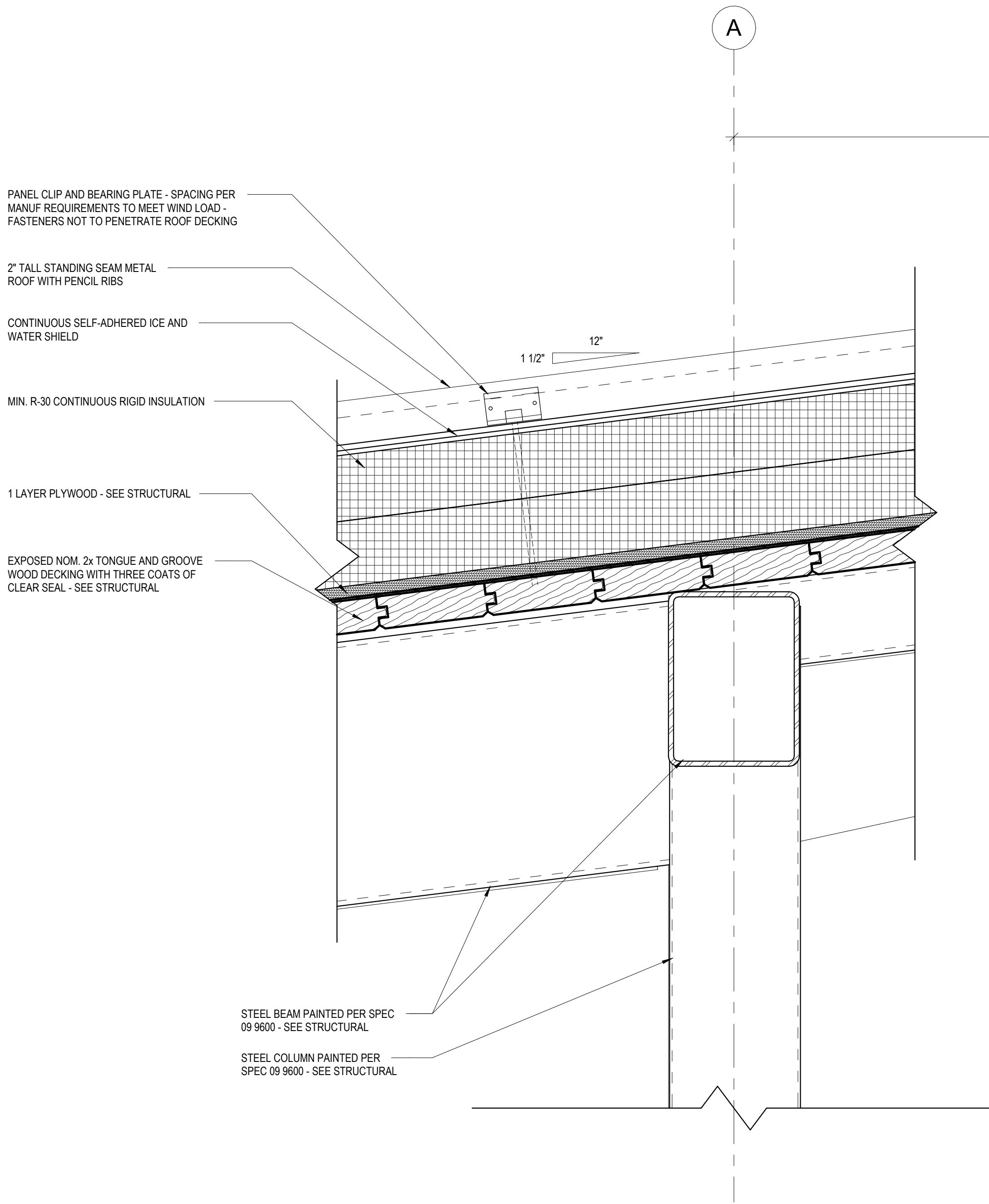
LAKE MYRA COUNTY PARK
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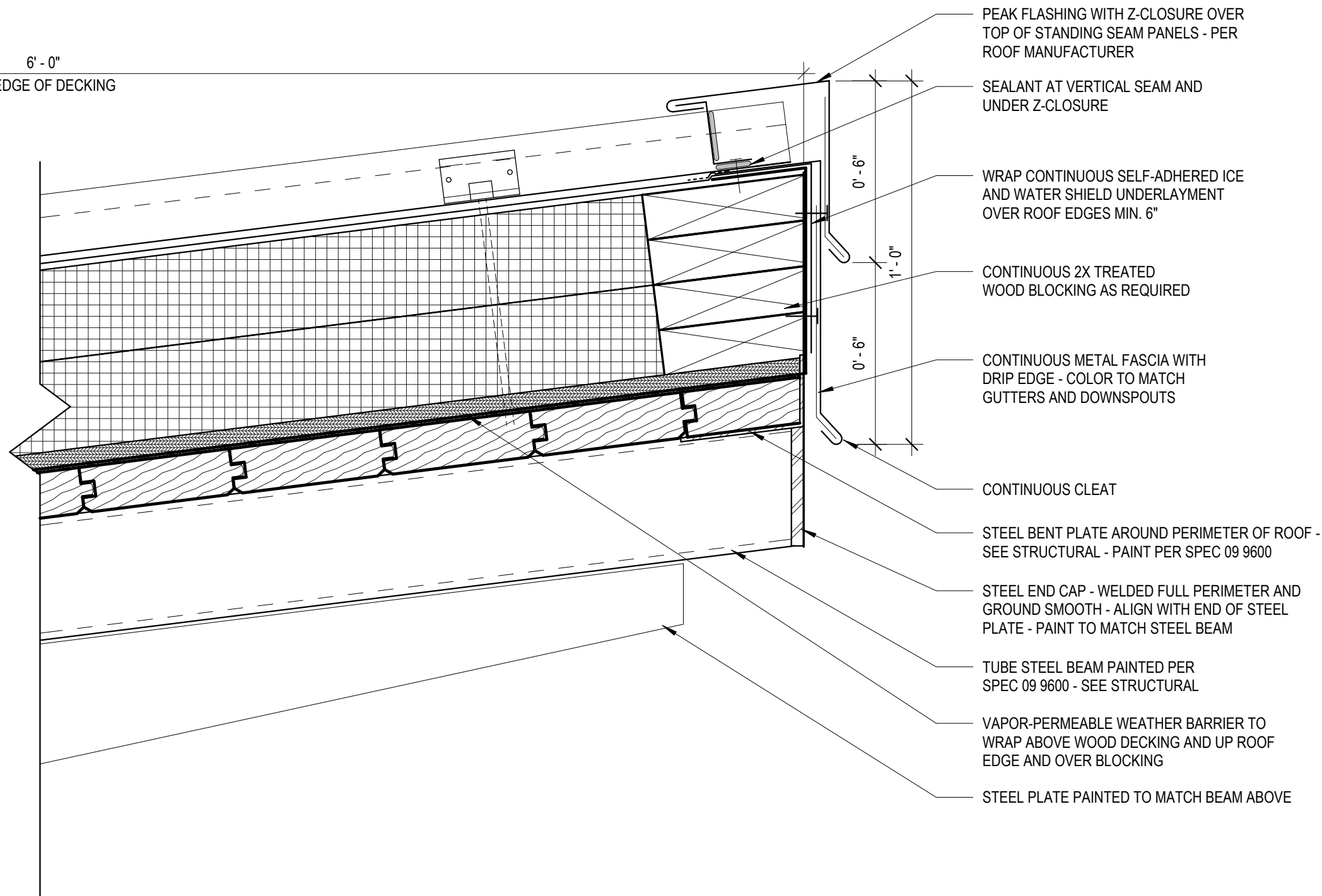
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WS-A505



1 ROOF DETAIL @ HIGH SIDE
WS-A525 3" = 1'-0"



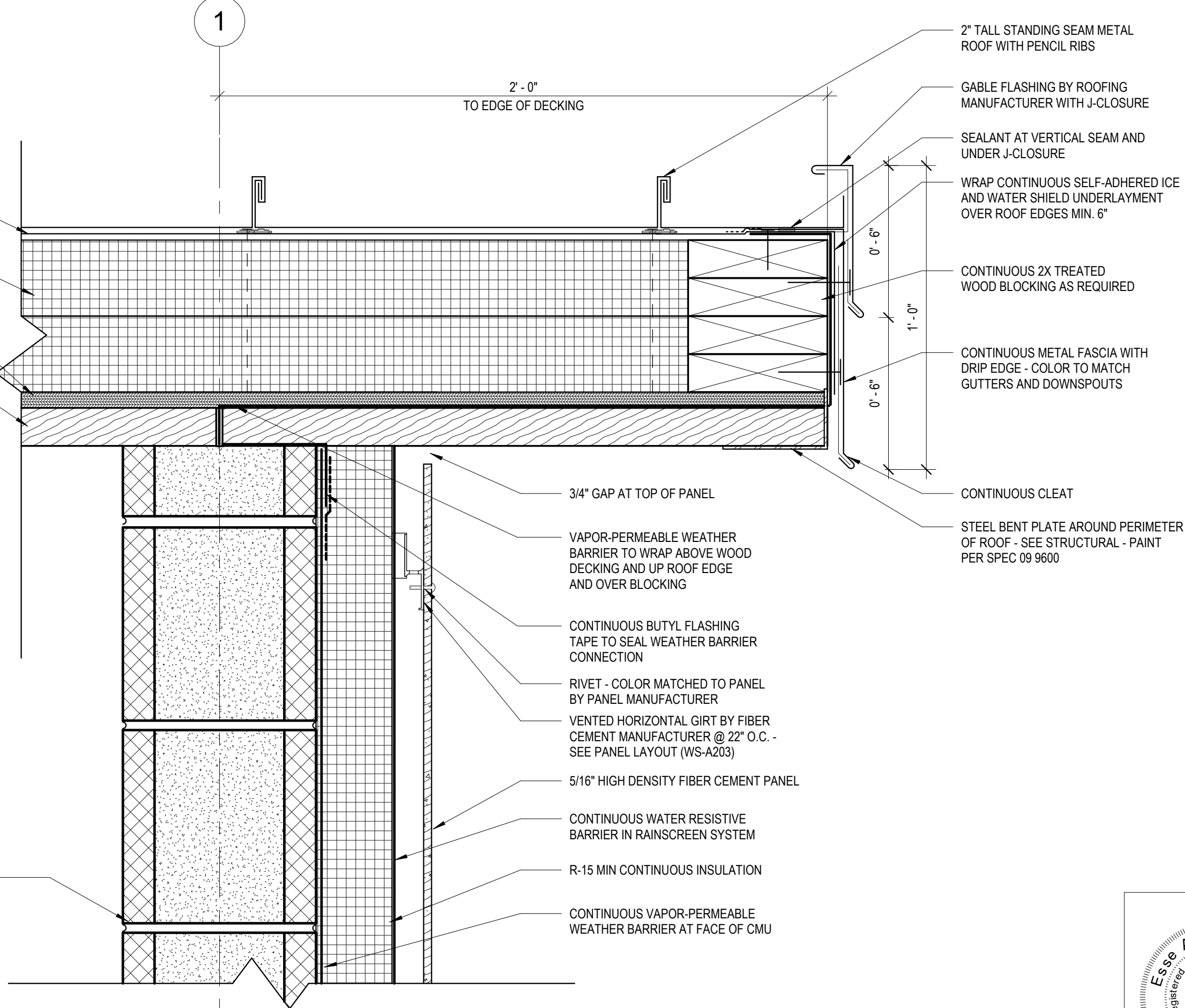
CONTINUOUS SELF-ADHERED ICE AND WATER SHIELD

MIN. R-30 CONTINUOUS RIGID INSULATION

1 LAYER PLYWOOD - SEE STRUCTURAL

EXPOSED NOM. 2x TONGUE AND GROOVE WOOD DECKING WITH THREE COATS OF CLEAR SEAL - SEE STRUCTURAL

8" CMU - SEE STRUCTURAL - PAINT ALL EXPOSED



3 ROOF DETAIL @ SINGLE RESTROOM
WS-A525 3" = 1'-0"

ROOF DECKING NOTES

- STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED CEILING - **NO FASTENERS SHALL PENETRATE DECKING**
- NO EXPOSED CONDUIT SHALL BE RUN ACROSS UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND COORDINATION WITH THE ARCHITECT. COORDINATE FOR LIGHTING, SECURITY, ETC.

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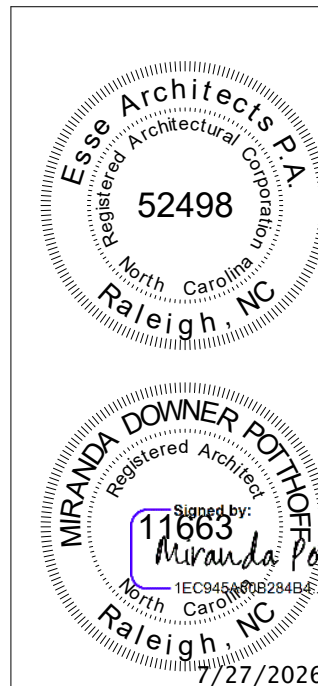
SHELTER - ROOF
DETAILS

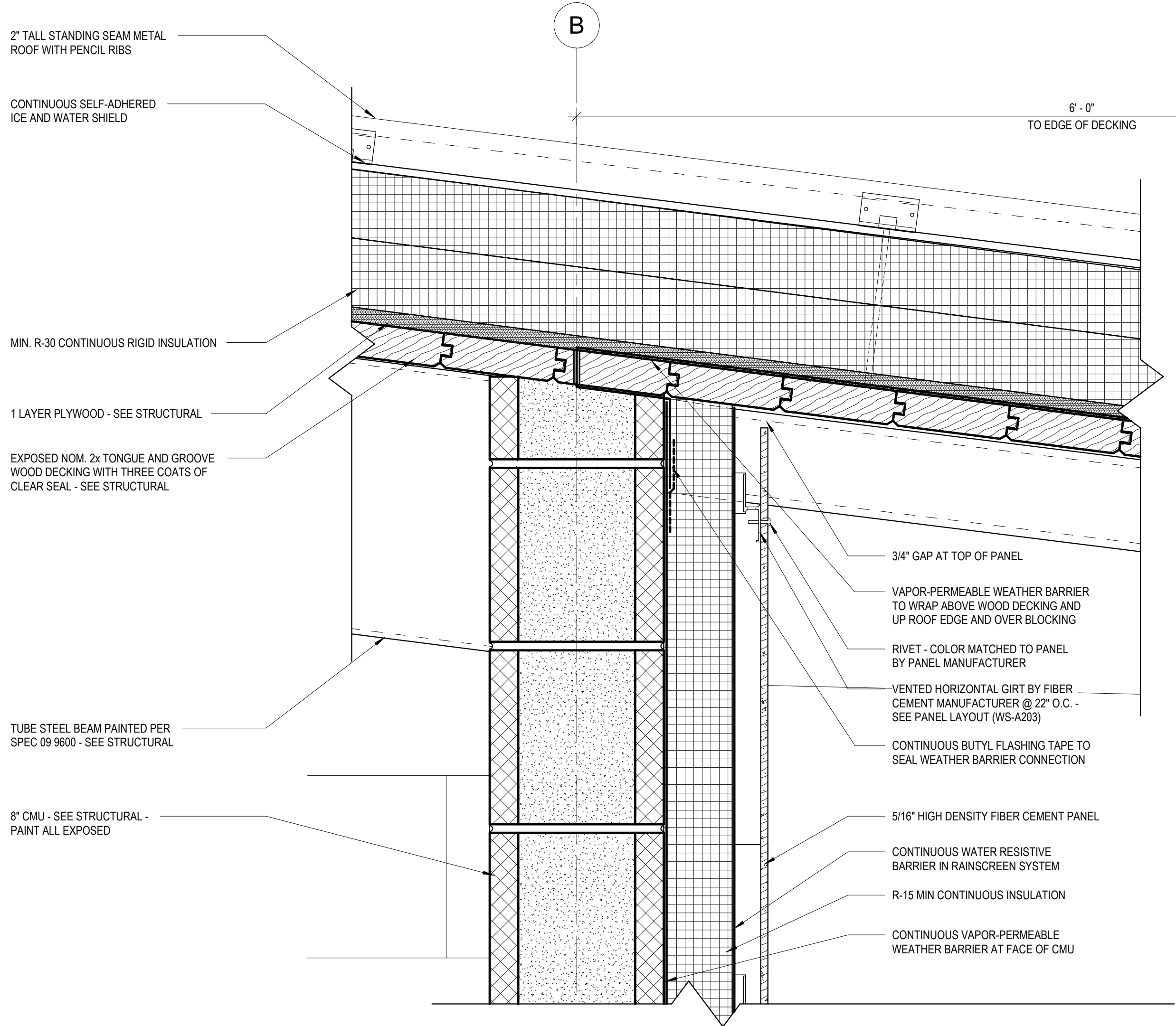
LAKE MYRA COUNTY PARK
Wake County, NC

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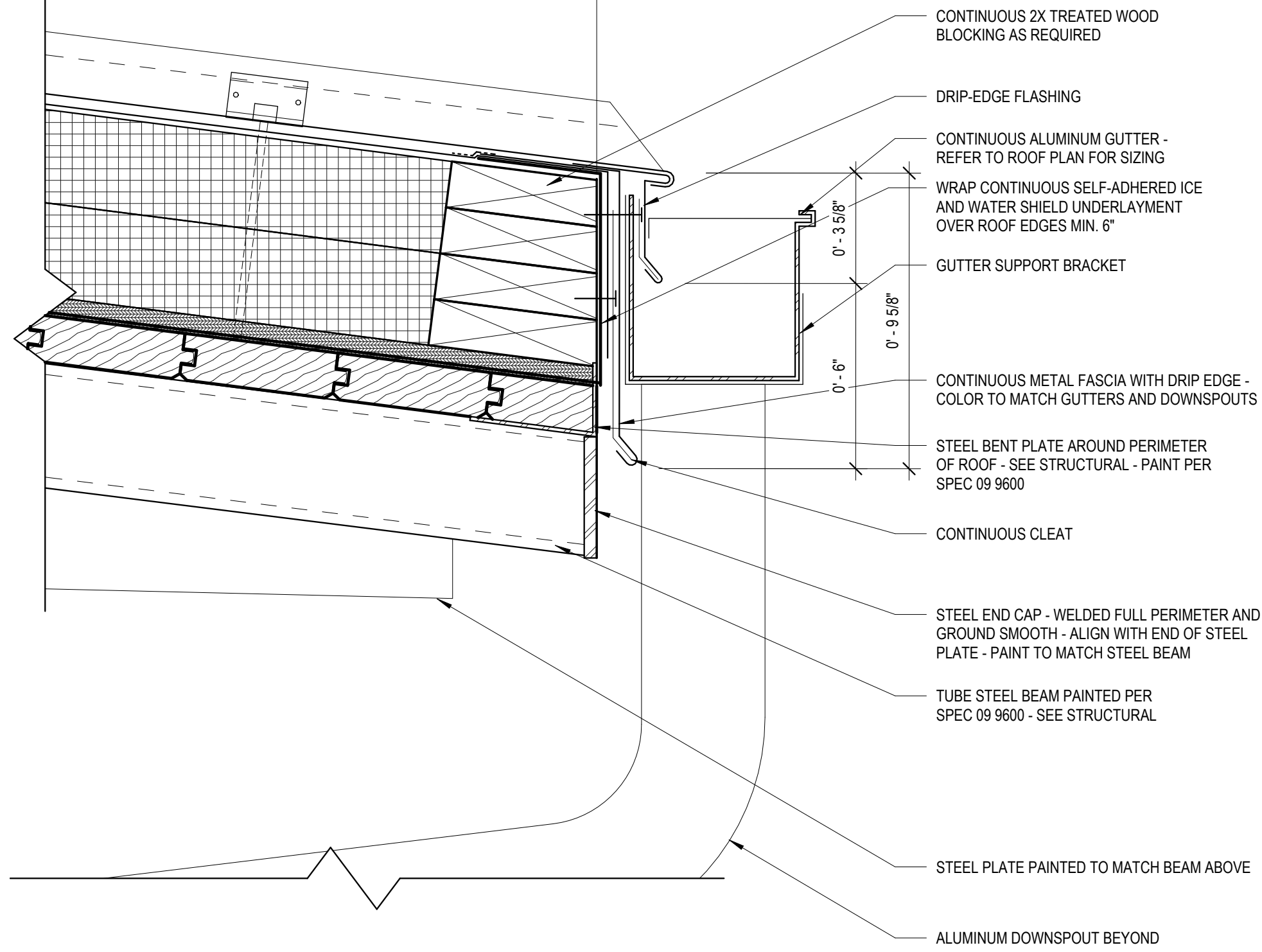
Date: 07/27/26

WS-A525

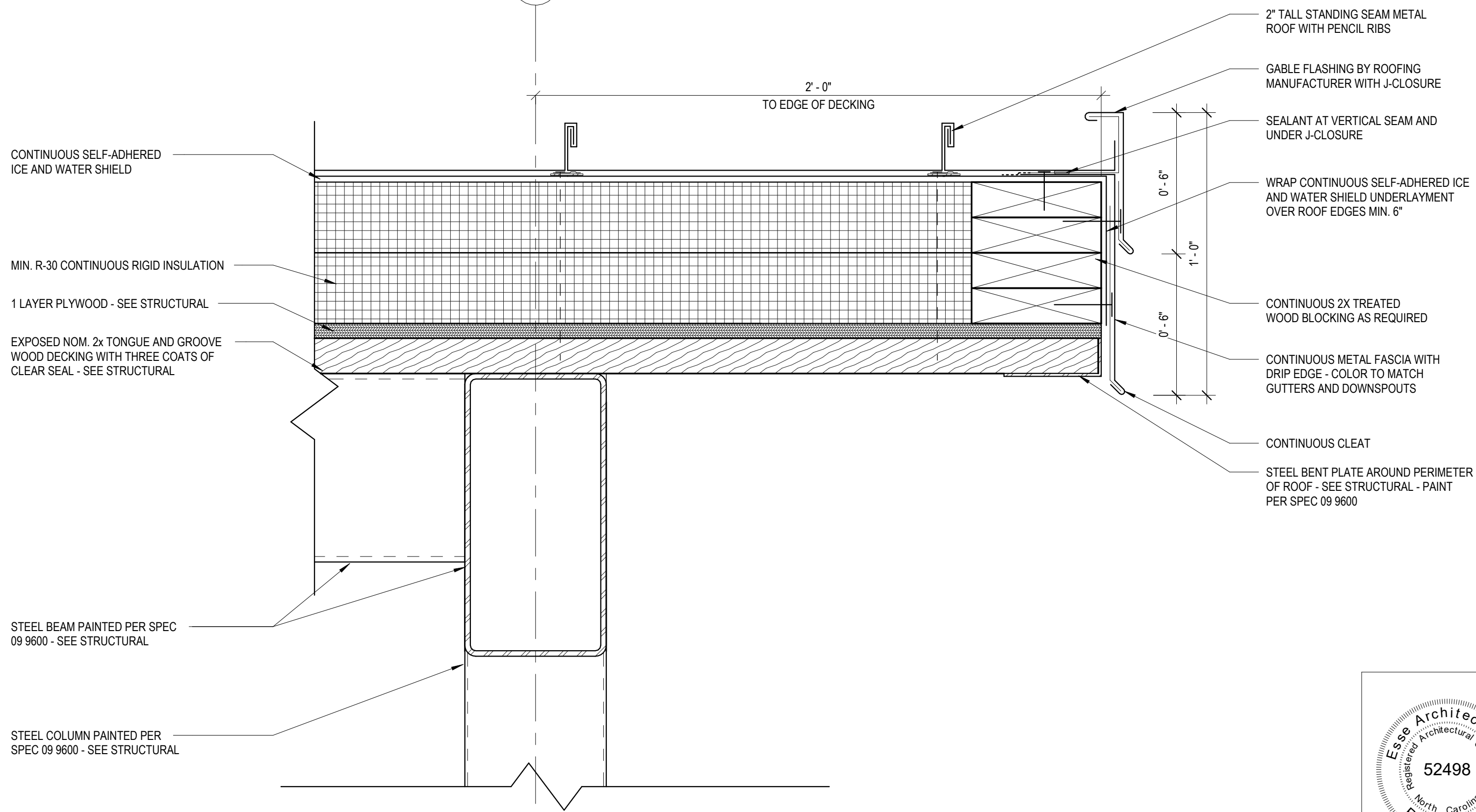




2 ROOF DETAIL @ LOW SIDE
3" = 1'-0"



6



1 ROOF DETAIL @ PICNIC SIDE
3" = 1'-0"

ROOF DECKING NOTES

1. STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED CEILING - **NO FASTENERS SHALL PENETRATE DECKING**
2. NO EXPOSED CONDUIT SHALL BE RUN ACROSS UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND COORDINATION WITH THE ARCHITECT. COORDINATE FOR LIGHTING, SECURITY, ETC.

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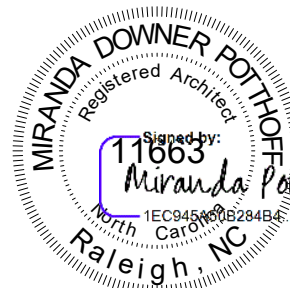
SHELTER - ROOF
DETAILS

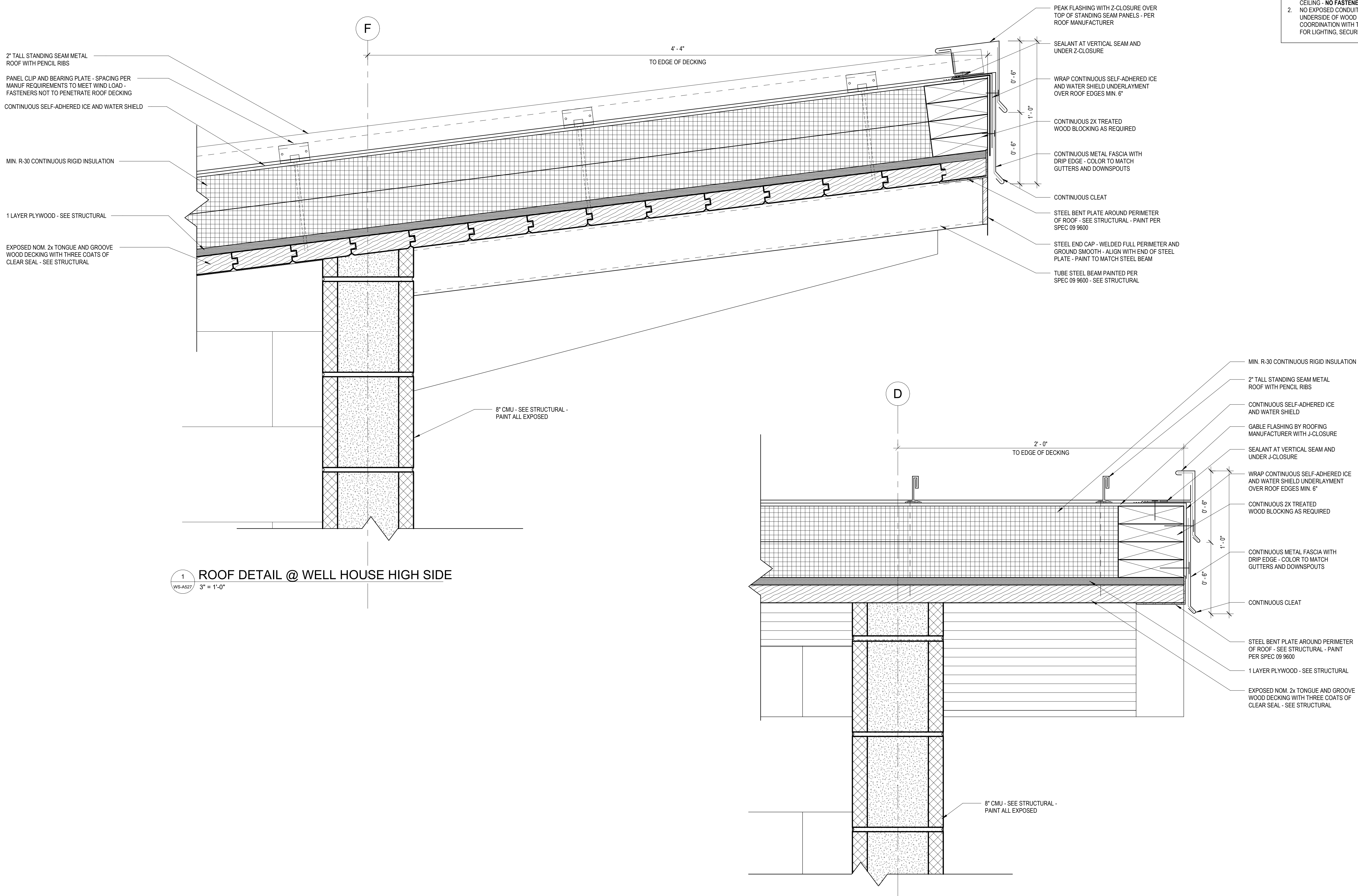
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WS-A526





1 ROOF DETAIL @ WELL HOUSE HIGH SIDE
3" = 1'-0"

2 ROOF DETAIL @ WELL HOUSE SIDE
3" = 1'-0"

ROOF DECKING NOTES

1. STRUCTURAL WOOD ROOF DECK IS ALSO FINISHED CEILING - **NO FASTENERS SHALL PENETRATE DECKING**
2. NO EXPOSED CONDUIT SHALL BE RUN ACROSS UNDERSIDE OF WOOD DECKING WITHOUT REVIEW AND COORDINATION WITH THE ARCHITECT. COORDINATE FOR LIGHTING, SECURITY, ETC.

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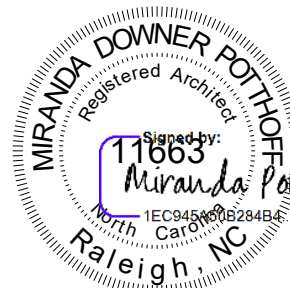
WELL HOUSE - ROOF
DETAILS

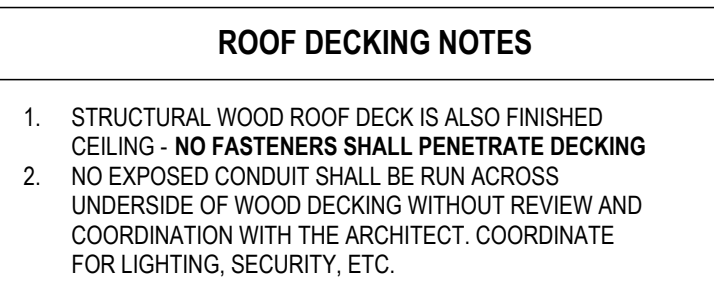
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WS-A527





1 ROOF DETAIL @ WELL HOUSE LOW SIDE
WS-A528 3" = 1'-0"



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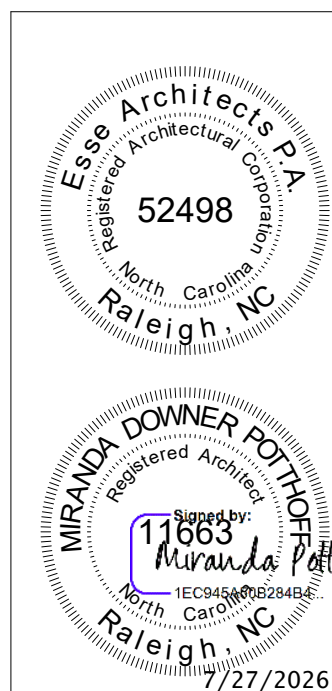
WELL HOUSE - ROOF DETAILS

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WS-A528



7/27/2026

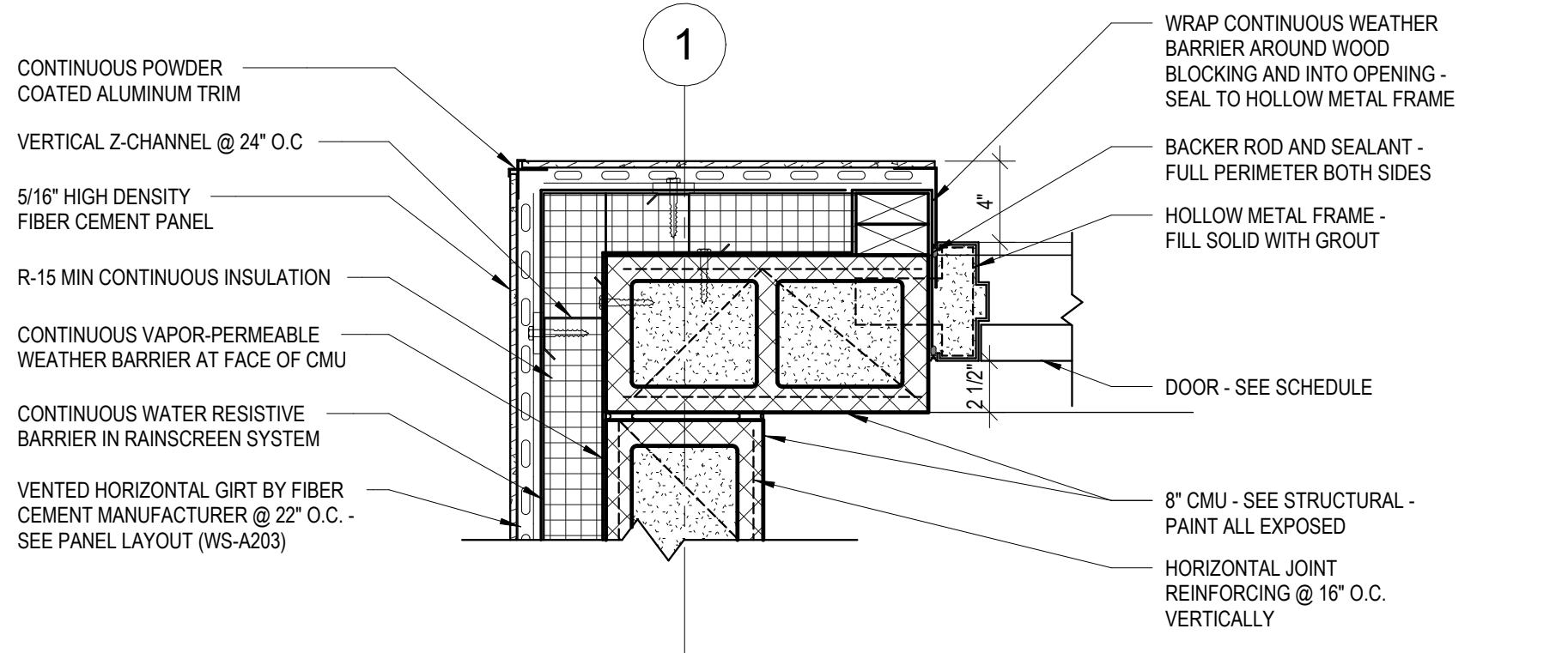
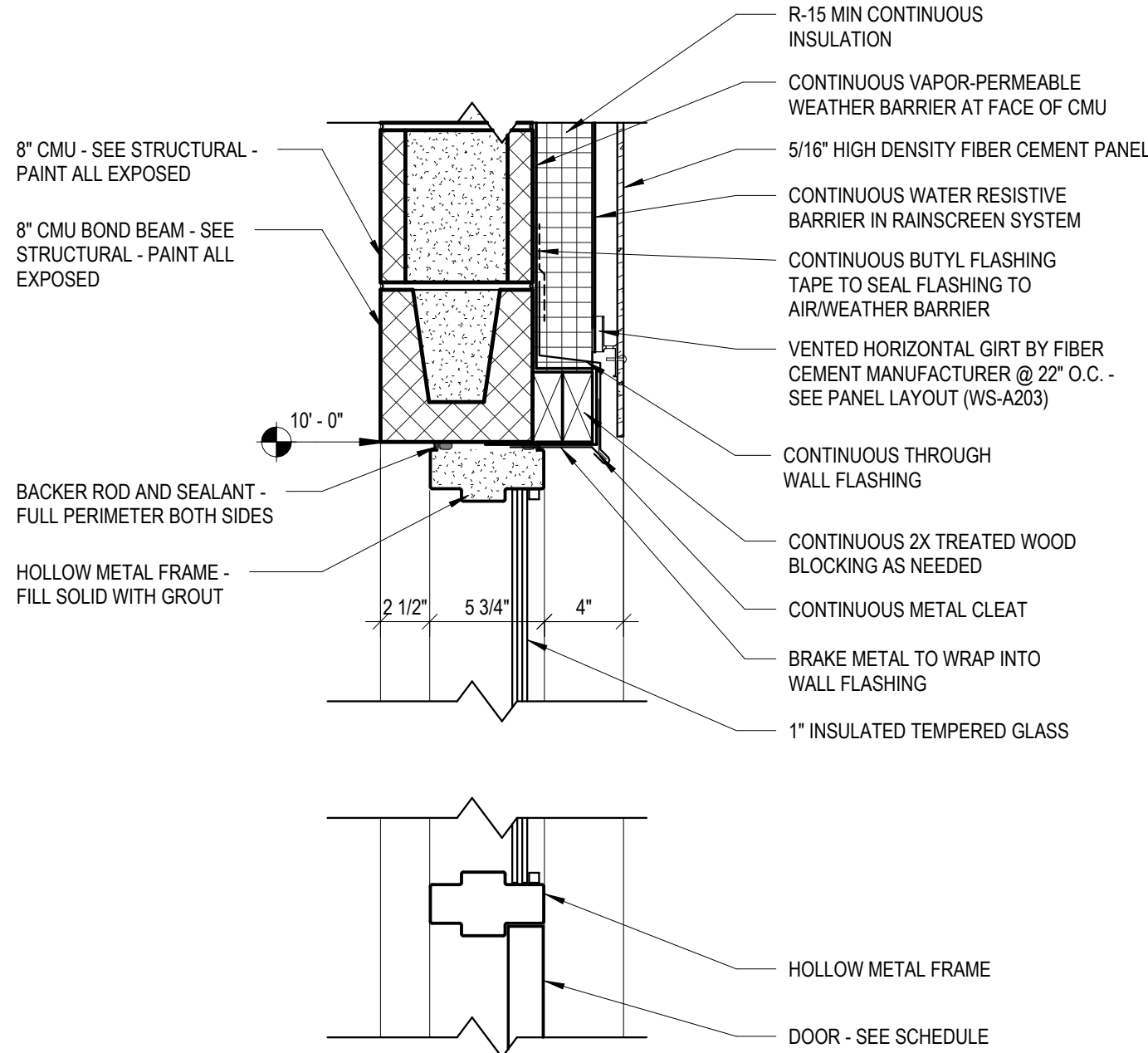
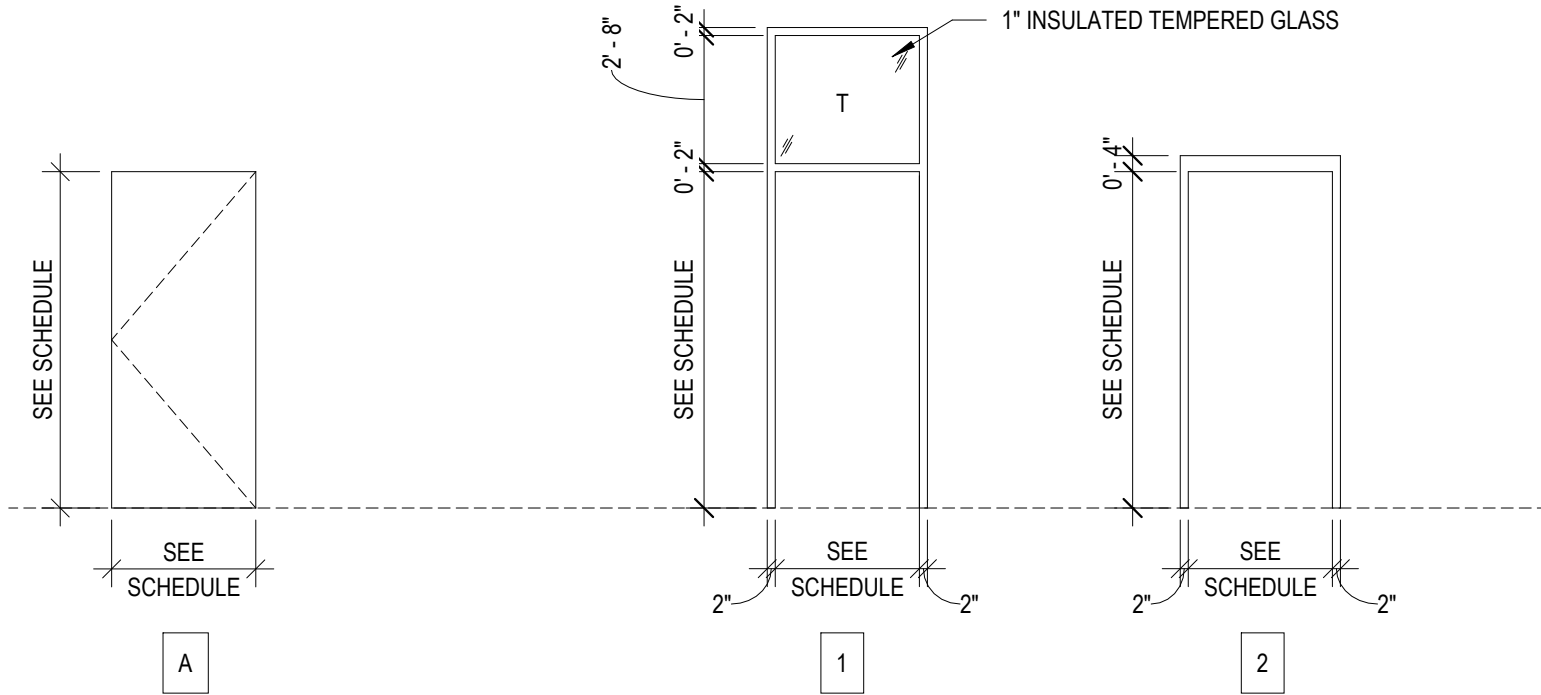
SHELTERS DOOR SCHEDULE														
NUMBER	DOOR					FRAME			DETAIL			HW Set	RATING	COMMENTS
	HEIGHT	WIDTH	MATERIAL	FINISH	ELEVATION	MATERIAL	FINISH	ELEVATION	HEAD	JAMB	SILL			
101	7'- 0"	3'- 0"	HM	PT-5	A	HM	PT-5	1	1WS-A601	2WS-A601 3WS-A601	6WS-A601	WP - 1.0		EXTERIOR DOOR, DOOR CONTACT, ELECTRIC MORTISE TIMER LOCK
102	7'- 0"	3'- 0"	HM	PT-3	A	HM	PT-3	2	8WS-A601	5WS-A601	6WS-A601	WP - 3.0		EXTERIOR DOOR, DOOR CONTACT, PAINT TO BE SEMI-GLOSS FINISH
103	7'- 0"	3'- 0"	HM	PT-5	A	HM	PT-5	1	1WS-A601	2WS-A601 3WS-A601	6WS-A601	WP - 1.0		EXTERIOR DOOR, DOOR CONTACT, ELECTRIC MORTISE TIMER LOCK
104	7'- 8"	3'- 0"	FRP	MANUF.	A	HM	PT-3	2	9WS-A601	7WS-A601 10WS-A601	6WS-A601	WP - 2.0		EXTERIOR DOOR, PAINT TO BE SEMI-GLOSS FINISH
105	7'- 8"	3'- 0"	FRP	MANUF.	A	HM	PT-3	2	9WS-A601	7WS-A601 10WS-A601	6WS-A601	WP - 2.0		EXTERIOR DOOR, PAINT TO BE SEMI-GLOSS FINISH

- DOOR HARDWARE NOTES:
- CARD READERS, DOOR CONTACTS, AND POWER SUPPLIES TO BE BY THE OWNER'S SECURITY VENDOR.
 - THE BALANCE OF DOOR HARDWARE IS IN THE GENERAL CONTRACTOR'S SCOPE.
 - THE OWNER WILL CONTROL THE LOCKED/UNLOCKED TIMING OF RESTROOM DOORS THROUGH THEIR SECURITY SYSTEM. (PREP AS THOUGH RECEIVING CARD READER, BUT NO CARD READER)

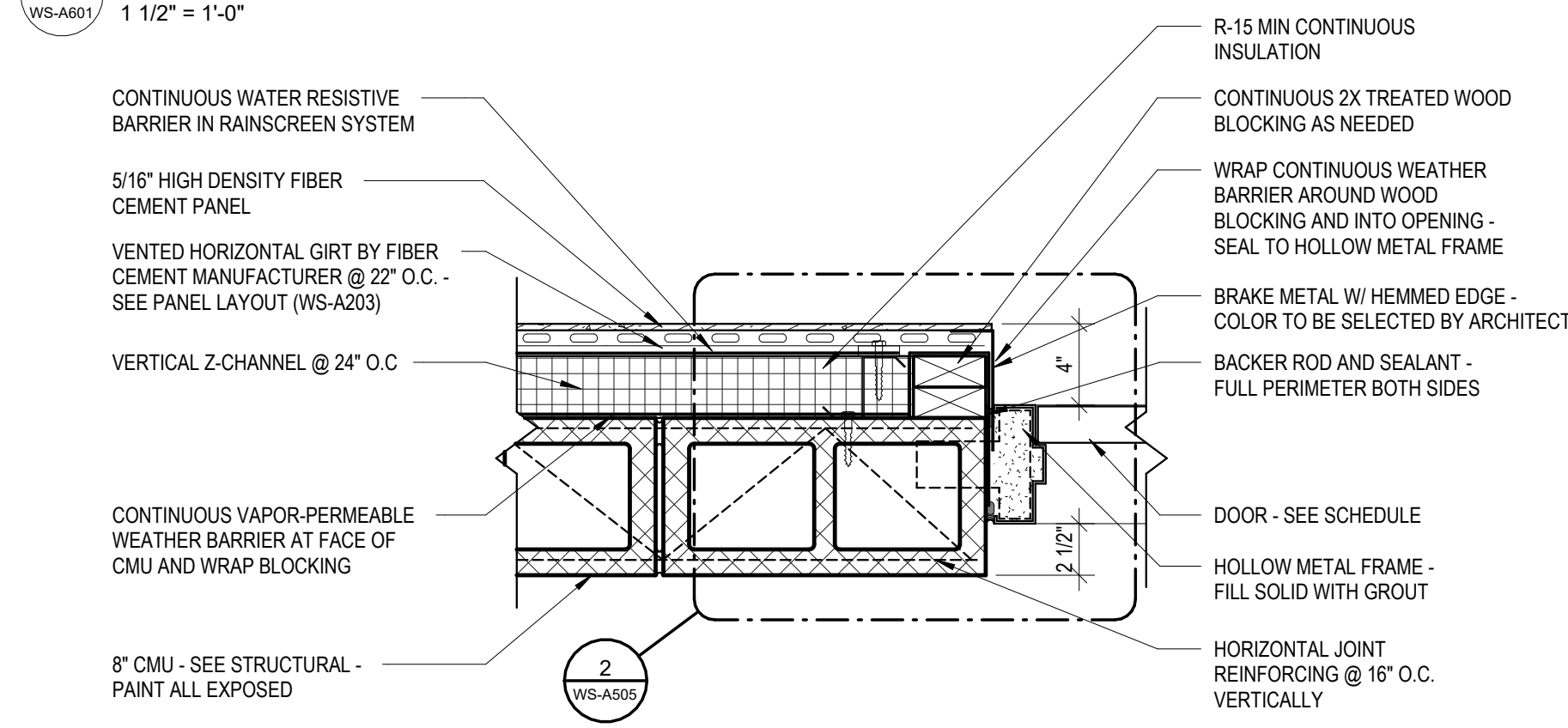
- DOOR AND GLAZING NOTES:
- ALL EXTERIOR GLAZING TO BE 1" INSULATED GLASS W/ LOW-E AND ARGON FILL.
 - ALL HOLLOW METAL FRAMES TO BE FIELD PAINTED
 - ALL GLASS TO BE FULLY TEMPERED.

DOOR ELEVATIONS

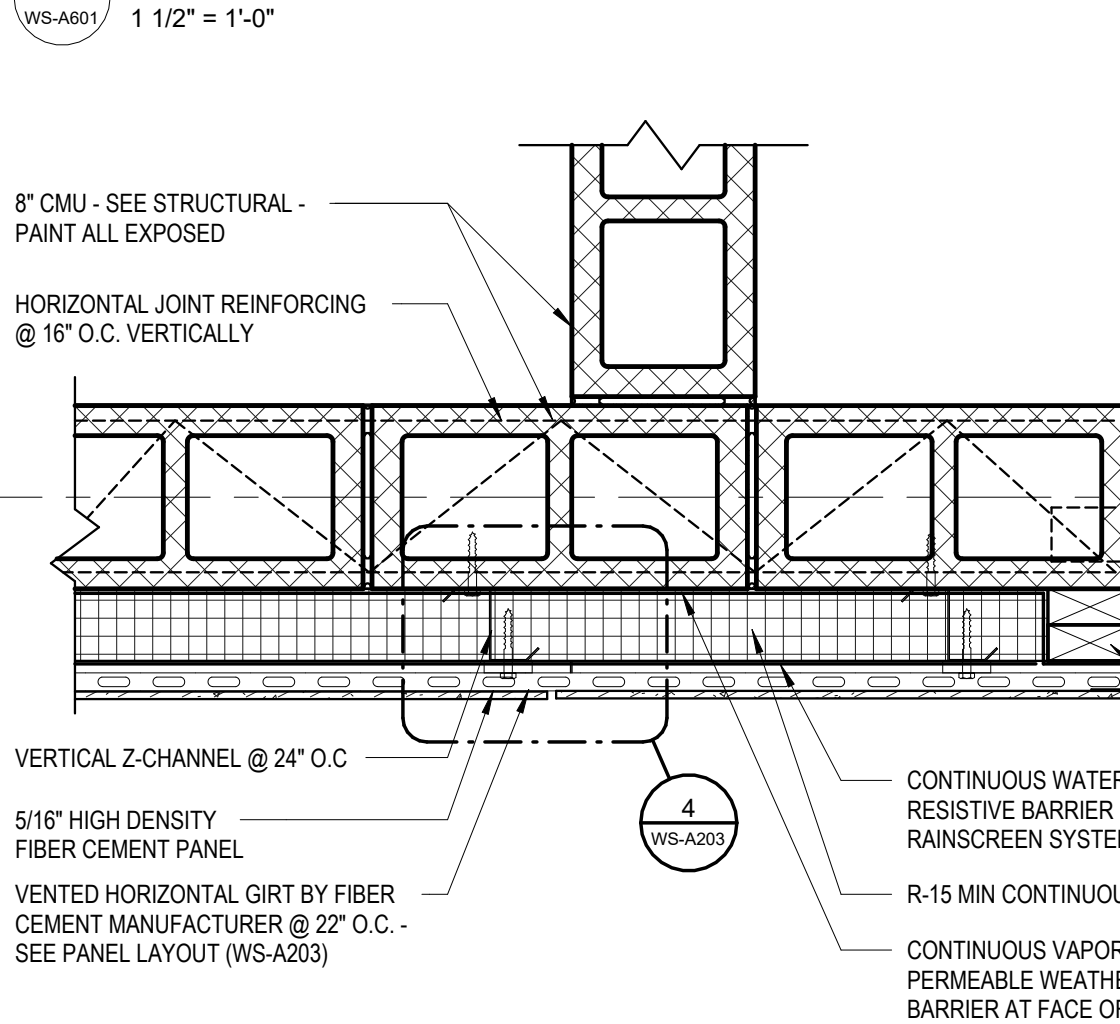
FRAME ELEVATIONS



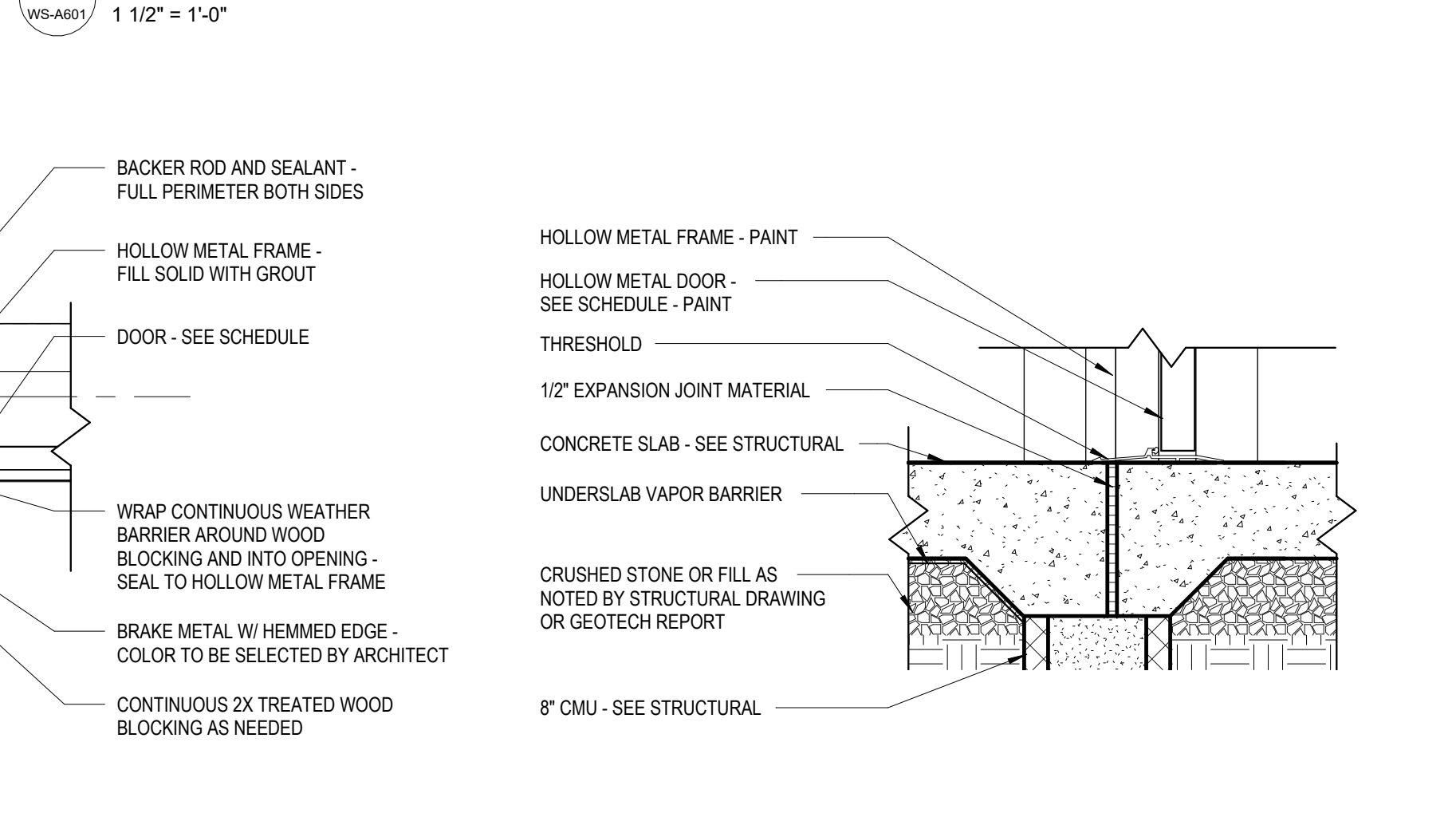
JAMB DETAIL @ OUTSIDE CORNER



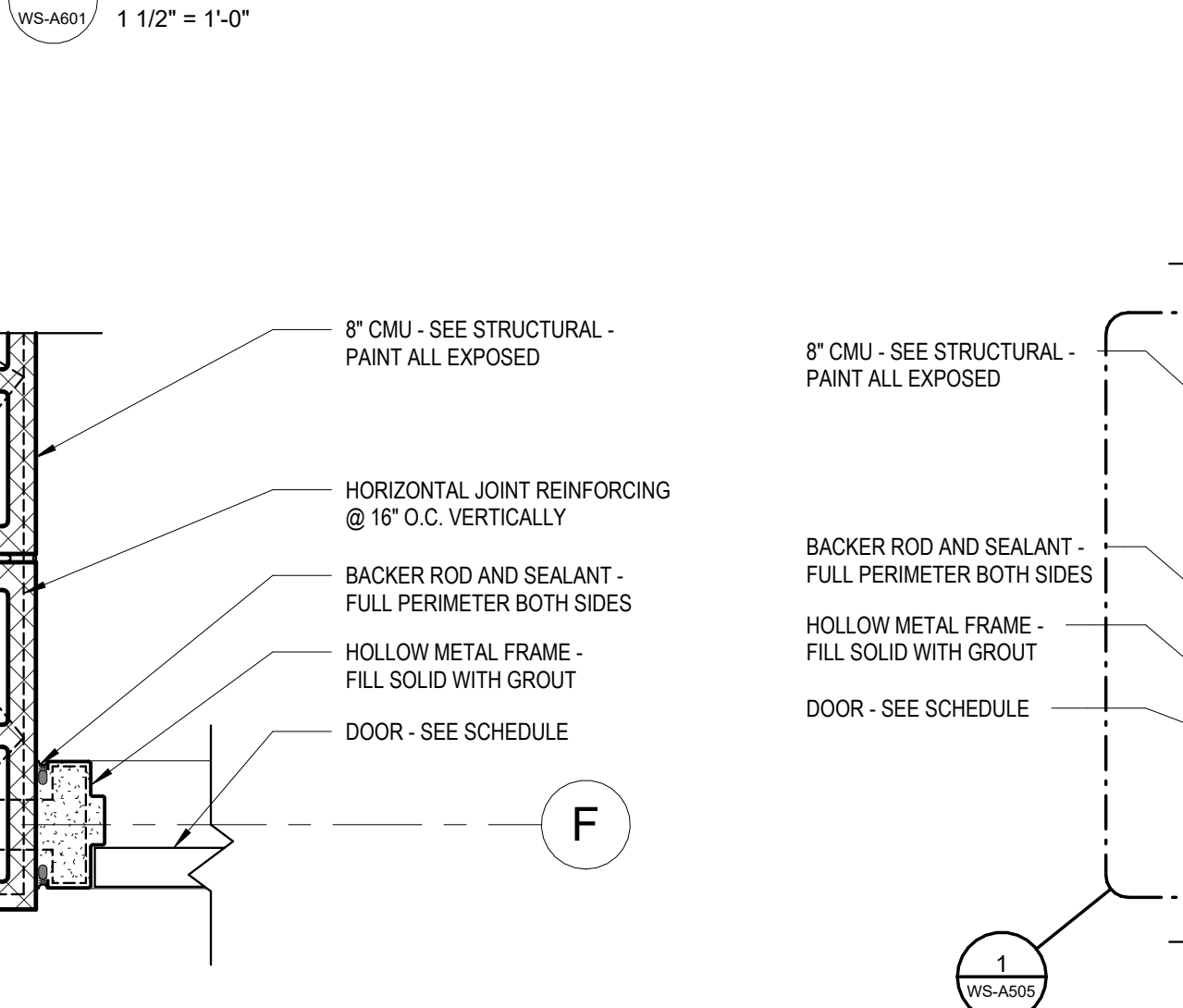
HEAD DETAIL @ TYP. RESTROOM DOOR



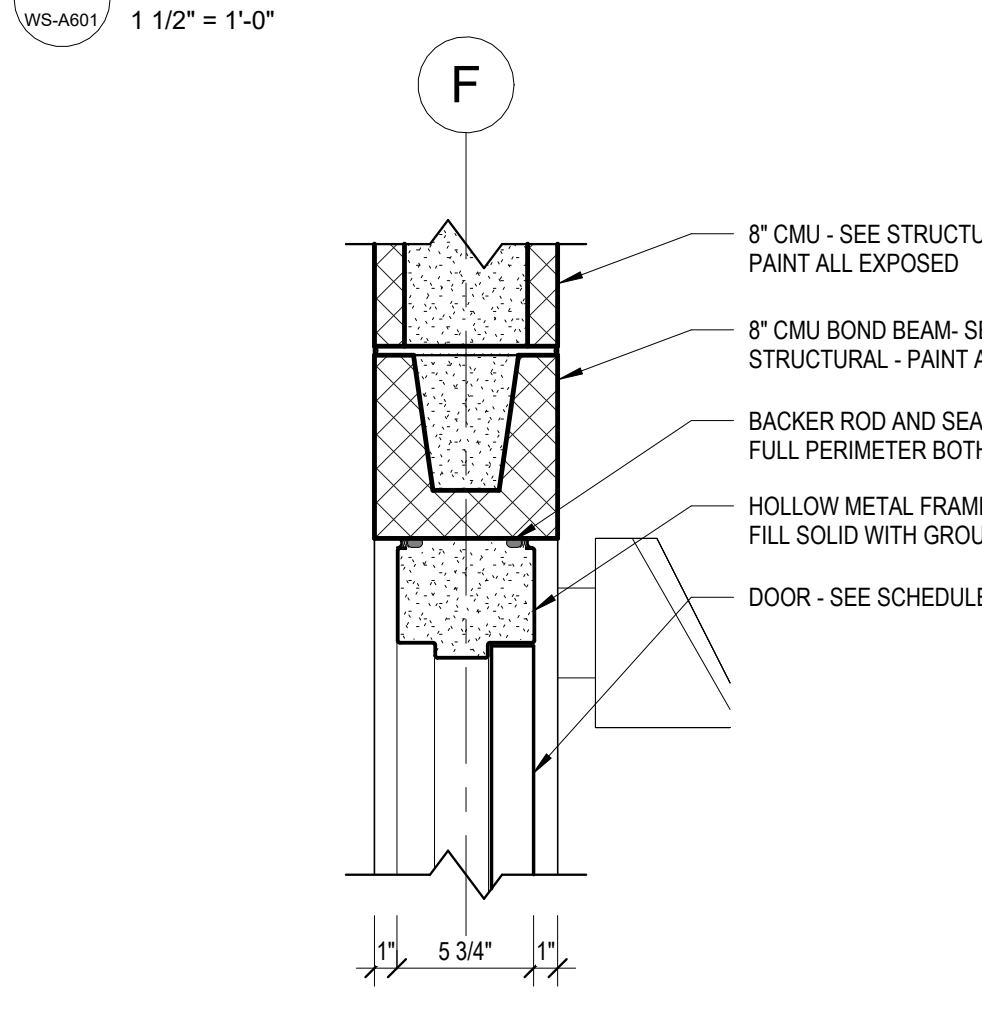
JAMB DETAIL @ TYP. WESTERN PARCEL DOOR



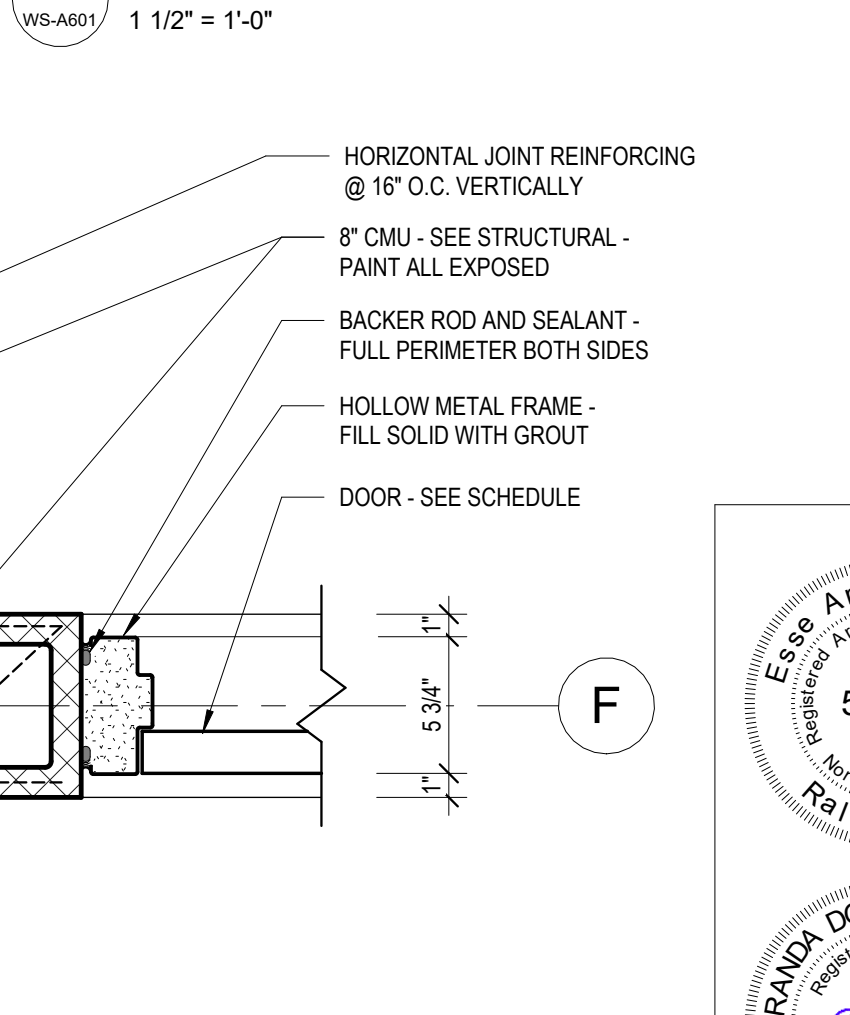
PLAN DETAIL @ DRINKING FOUNTAIN CORNER



JAMB DETAIL @ CUSTODIAL DOOR



TYPICAL THRESHOLD DETAIL



JAMB DETAIL @ WELLHOUSE DOOR



HEAD DETAIL @ CUSTODIAL DOOR



HEAD DETAIL @ WELLHOUSE DOOR



JAMB DETAIL @ WELLHOUSE DOOR 2



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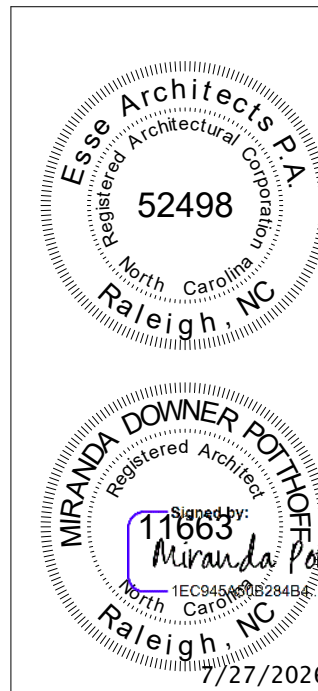
DOOR SCHEDULE

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26

WS-A601



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 WITHIN DRAWINGS, BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, 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. THESE STRUCTURAL DRAWINGS ARE ISSUED ON THE DATE INDICATED FOR THE PURPOSE DESIGNATED. THESE DRAWINGS MUST NOT BE ISSUED OR RELEASED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER OF RECORD.
6. DETAILS LABELED "TYPICAL DETAIL" WITHIN THE DOCUMENTS APPLY TO SITUATIONS ON THE PROJECT THAT MAY OCCUR THROUGHOUT THE PROJECT. SUCH DETAILS APPLY WHETHER OR NOT THE DETAIL IS SPECIFICALLY REFERENCED AT EACH INSTANCE. NOTIFY ENGINEER IF CLARIFICATIONS ARE REQUIRED REGARDING THE APPLICABILITY OF THE "TYPICAL DETAIL."
7. DESIGN CRITERIA:

CLASSIFICATION OF BUILDING
RISK CATEGORY..... II

SUPERIMPOSED ROOF DEAD LOADS - UNIFORM:
INSULATION AND ROOF MEMBRANE..... 3 PSF
CEILING..... 2 PSF
DUCTS, LIGHTS, MISC. MECHANICAL..... 3 PSF

LIVE LOADS - UNIFORM:
SLAB ON GRADE..... 100 PSF

ROOF..... 20 PSF
PARTITION ALLOWANCE..... 15 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR
LIVE LOADS HAS BEEN UTILIZED WHERE PERMITTED BY CODE.

LIVE LOADS - CONCENTRATED:
ROOFS..... 300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED
UNIFORMLY OVER 2'-6" x 2'-6" AREA.

RAIN LOADS:
RAIN INTENSITY (15 MINUTE)..... 6.25 IN/HR

SNOW LOADS:
GROUND SNOW LOAD (Pg)..... 15 PSF
SLOPED ROOF LOAD (Pf)..... 11 PSF
IMPORTANCE FACTOR (Is)..... 1.0
THERMAL FACTOR (Ct)..... 1.0
EXPOSURE FACTOR (Ce)..... 1.0
DRIFT SURCHARGE (Pd)..... NA

GENERAL NOTES (CONT):

WIND LOADS:
BASIC WIND SPEED (Vult)..... 116 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd)..... 90 MPH
EXPOSURE CATEGORY..... B
INTERNAL PRESSURE COEFFICIENT..... ±0.18
COMPONENT AND CLADDING PRESSURES:
WALLS, ZONE 5 (10 SF)..... 29 PSF
ROOF, ZONE 3 (10 SF)..... 56 PSF
ULTIMATE WIND BASE SHEARS (FOR MWFRS):
Vx..... 9 KIPS
Vy..... 11 KIPS

SEISMIC LOADS:
SITE CLASSIFICATION..... C
SEISMIC DESIGN CATEGORY..... B
IMPORTANCE FACTOR (IE)..... 1.0
SPECTRAL RESPONSE ACCELERATIONS:
Ss..... 0.112 S1..... 0.057
Sms..... 0.146 Sm1..... 0.085
Sds..... 0.097 Sd1..... 0.057
ANALYSIS PROCEDURE..... EQUIVALENT LATERAL FORCE

LATERAL FORCE RESISITNG SYSTEM
ORDINARY REINFORCED MASONRY SHEAR WALLS..... ?

RESPONSE MODIFICATION COEFFICIENT (R)..... 2.0
SEISMIC RESPONSE COEFFICIENT (Cs)..... 0.05
ULTIMATE SEISMIC BASE SHEAR (V)..... 3 KIPS

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

SHOP DRAWINGS AND SUBMITTALS:

1. SHOP DRAWINGS AND SUBMITTALS MUST BEAR THE CONTRACTOR'S REVIEW STAMP WITH CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
2. WHEN THE CONTRACTOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT'S AND / OR ENGINEER'S DRAWINGS AS SHOP DRAWINGS, THE CONTRACTOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS, AND ANY OTHER REFERENCE TO THE ARCHITECT AND / OR ENGINEER FROM THAT SHOP DRAWING.

SITE PREPARATION, CONTROLLED FILL AND SURCHARGE NOTES:

1. OBTAIN AND BECOME THOROUGHLY FAMILIAR WITH THE CONDITIONS AND RECOMMENDATIONS DESCRIBED IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT. THIS REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS, AND MAY NOT BE REPRESENTATIVE OF ALL SITE CONDITIONS WHICH MAY BE ENCOUNTERED.
2. SITE PREPARATION AND CONTROLLED FILL MUST INCLUDE THE AREA ENCLOSED BY A LINE DRAWN 5 FEET OUTSIDE THE BUILDING FOOTPRINT.
3. REMOVE ALL VEGETATION, ROOT MAT, TOPSOIL, ASPHALT PAVING AND AGGREGATE BASE MATERIAL. BASE BID ON 10 INCHES AVERAGE DEPTH.
4. THE EXPOSED SUBGRADE MUST BE PROOF ROLLED WITH A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK; PERFORM AT LEAST TWO PASSES IN EACH OF TWO PERPENDICULAR DIRECTIONS.
5. EXCAVATE SOFT SPOTS REVEALED BY PROOF ROLLING AS DIRECTED.
6. PRIOR TO PLACEMENT OF ANY FILL MATERIAL, SETTLEMENT PLATES MUST BE INSTALLED ON THE PREPARED SUBGRADE. SEE PLAN FOR LOCATIONS AND DETAILS.
7. FILL WITH SATISFACTORY STRUCTURAL FILL MATERIALS TO THE SPECIFIED ELEVATIONS.
8. FILL MUST BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES, WHEN MECHANICAL COMPACTION EQUIPMENT IS USED OR 4 INCHES WHEN HAND COMPACTION EQUIPMENT IS USED AND MUST BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
9. PLACE SURCHARGE FILL IN ONE FOOT LOOSE LIFTS, UP TO THE SPECIFIED ELEVATION. THE DEPTH OF SURCHARGE IS BASED ON A SOIL UNIT WEIGHT OF 120 POUNDS PER CUBIC FOOT. FOR LESS DENSE MATERIALS, PROVIDE ADDITIONAL SURCHARGE OR PROVIDE COMPACTION AS REQUIRED TO YIELD THE EQUIVALENT TOTAL WEIGHT OF SURCHARGE.
10. THE CONTRACTOR MUST SECURE AND PAY FOR THE SERVICES OF A LICENSED LAND SURVEYOR TO MONITOR THE SETTLEMENT PLATES. ELEVATION READINGS MUST BE TAKEN ON THE SURFACE OF THE PLATE AND THE TOP OF THE BAR AT THE TIME OF INSTALLATION. SUBSEQUENT READINGS MUST BE OBTAINED ON TOP OF THE BAR A MINIMUM OF THREE TIMES PER WEEK DURING THE PLACEMENT OF ANY FILL, TWO TIMES PER WEEK FOR A PERIOD OF TWO WEEKS AFTER COMPLETION OF FILL, AND ONE TIME PER WEEK THEREAFTER.
11. DURATION OF THE READINGS MUST BE ASSUMED TO BE 90 DAYS AFTER COMPLETION OF THE FILL. SUBMIT ELEVATION READINGS TO THE [ARCHITECT] [ENGINEER] [CONTRACTING OFFICER] ON A WEEKLY BASIS.

FOUNDATION NOTES:

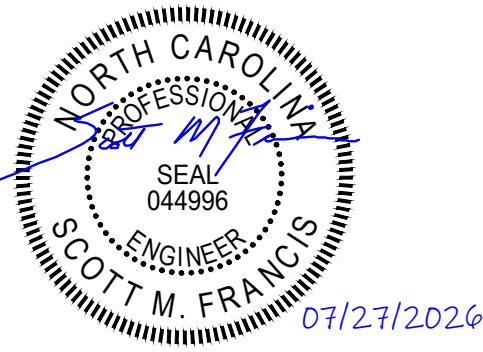
1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE [SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY ESP ASSOCIATES, INC., DATED AUGUST 29, 2025.
2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF.
3. TOP OF FOOTING ELEVATIONS MUST BE A MINIMUM DEPTH OF 1'-0" BELOW LOWEST ADJACENT SOIL GRADE.
4. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY [SPECIAL INSPECTOR] 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 [SPECIAL INSPECTOR] WHERE UNSATISFACTORY SOILS ARE PRESENT.
5. NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.
6. CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

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 UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT) AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
A. SLAB-ON-GRADE..... 3,500 PSI
B. COLUMNS AND WALLS..... 4,000 PSI
C. CONCRETE NOT OTHERWISE NOTED..... 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 EQUAL THE FOLLOWING, UNLESS OTHERWISE NOTED:
A. SURFACES AGAINST EARTH..... 3"
B. SURFACES NOT CAST AGAINST EARTH, BUT EXPOSED TO EARTH OR WEATHER IN THE FINAL CONDITION
 #5 AND SMALLER..... 1 1/2"
 #6 AND LARGER..... 2"
C. BEAMS, GIRDERS, COLUMNS, AND WALLS ABOVE FINISHED FIRST FLOOR..... 1 1/2"
D. ELEVATED SLABS..... 3/4"
6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.
7. LAP CONTINUOUS REINFORCING STEEL PER SCHEDULES AND TYPICAL DETAILS.
8. DO NOT EMBED CONDUIT AND PIPING IN OR PENETRATE THROUGH CAST-IN-PLACE CONCRETE ELEMENTS UNLESS OTHER NOTED.

CONCRETE MIX DESIGN NOTES:

1. MIX DESIGNS COMPRESSIVE STRENGTHS (fc) BASED ON 28 DAY DESIGN STRENGTH, UNLESS OTHERWISE NOTED.
2. CONCRETE NOT OTHERWISE NOTED:
A. MINIMUM COMPRESSIVE STRENGTH (fc) = 4000 PSI
3. FOUNDATIONS (SPREAD FOOTINGS, MAT FOOTINGS):
A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C1
B. MINIMUM COMPRESSIVE STRENGTH (fc) = 3,000PSI
C. MAXIMUM W/CM = 0.5
D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXTURE
F. AIR CONTENT = NO REQUIREMENTS
G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.1 PERCENT BY WEIGHT OF CEMENT
4. INTERIOR FLOOR SLAB-ON-GRADE:
A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
B. MINIMUM COMPRESSIVE STRENGTH (fc) = 3,500PSI
C. MAXIMUM W/CM = 0.5
D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXTURE
F. AIR CONTENT = DO NOT ALLOW AIR CONTENT IN TROWEL FINISHED FLOORS TO EXCEED 3%
G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.3 PERCENT BY WEIGHT OF CEMENT



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GENERAL NOTES

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date07/27/2026

WS-S001

CONCRETE MASONRY NOTES:

1.

CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402 / ACI 530 / ASCE 5) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602 / ACI 530.1 / ASCE 6).
2.

CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH NORMAL WEIGHT AGGREGATE.
3.

COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, f_m, MUST BE 2,000 PSI AT 28 DAYS.
4.

MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
5.

GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:

A.

PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.

B.

PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI, WITH 3/8" MAX AGGREGATE AND AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
6.

REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
7.

ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.
8.

ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."
9.

LAP ALL REINFORCING PER SCHEDULE BELOW, TYPICAL UNLESS OTHERWISE NOTED:

MASONRY LAP SCHEDULE		
REINF SIZE	52 x BAR DIAMETER	72 x BAR DIAMETER
#4	26"	36"
#5	33"	45"
#6	39"	54"
#7	46"	63"
#8	52"	72"

10.

PROVIDE MECHANICAL SPLICES FOR ALL #9 BARS AND LARGER AND FOR ALL BARS AT CONTRACTOR'S OPTION.
11.

PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS.
12.

PROVIDE STANDARD 9 GAGE TRUSS TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON-CENTER VERTICALLY AND AT 8 INCHES ON-CENTER VERTICALLY AT PARAPETS. ADDITIONALLY PROVIDE IN THE TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
13.

PROVIDE VERTICAL CONTROL JOINTS AT 25 FEET ON-CENTER MAXIMUM, OR NOT MORE THAN 1.5 TIMES THE HEIGHT OF THE WALL AT CONTROL JOINTS. PROVIDE CONTINUOUS HORIZONTAL BOND BEAM REINFORCEMENT AS SHOWN IN THE SECTIONS AND DETAILS CONTINUOUS THROUGH CONTROL JOINTS. DO NOT PLACE GROUT CONTINUOUSLY AT CONTROL JOINTS.
14.

DO NOT LOCATE CONTROL JOINTS WITHIN TWO FEET OF STEEL BEAM BEARING LOCATIONS.
15.

PLACE GROUT WITH POUR HEIGHT NOT EXCEEDING 5 FEET. CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT OCCUR.

CONCRETE MASONRY NOTES (CONT):

19.

GROUT POUR HEIGHT MAY BE INCREASED WHERE THE FOLLOWING CONDITIONS ARE MET:

A.

LIMIT POUR HEIGHT BASED ON A MINIMUM WIDTH OF GROUT SPACE IN ACCORDANCE WITH TABLE 7 OF ACI 530.1 / ASCE 6 / TMS 602.

B.

PLACE GROUT IN LIFTS NOT EXCEEDING THE LIMITATIONS SPECIFIED IN ACE 530.1/ASCE 6/TMS 602.

C.

CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

D.

FORM A GROUT KEY BETWEEN POURS ACCORDING TO ACI 530.1 / ASCE 6 / TMS 602.

E.

PROVIDE AN INSPECTION PORT (CLEANOUT) AT EACH CELL TO BE GROUTED AT THE BASE OF EACH POUR.

F.

SUBMIT SHOP DRAWINGS DETAILING THE PROPOSED GROUTING PROCEDURE ALONG WITH (3) REFERENCES OF PREVIOUS SUCCESSFUL PROJECTS.
20.

MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND PATTERN AND ALL CORNERS TO BE TIED BY MASONRY BOND.
21.

SUBMITTALS FOR CONCRETE MASONRY MUST INCLUDE THE FOLLOWING:

A.

PRODUCT DATA/MATERIAL CERTIFICATES: SUBMIT DATA AND CERTIFICATES FOR MASONRY UNITS, CEMENTITIOUS MATERIALS, MORTAR ADMIXTURES, PRE-BLENDED DRY MORTAR MIXES, REINFORCING BARS, JOINT REINFORCEMENT, ANCHORS, TIES, AND METAL ACCESSORIES.

B.

REINFORCEMENT SHOP DRAWINGS: SHOW ELEVATIONS OF REINFORCED WALLS. MUST COMPLY WITH ACI DETAILING MANUAL: DETAIL BENDING, LAP LENGTHS, AND PLACEMENT OF UNIT MASONRY REINFORCING BARS.

C.

MIX DESIGNS: SUBMIT MIX DESIGNS FOR EACH TYPE OF MORTAR AND GROUT AND INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS. INCLUDE TEST REPORTS FOR GROUT MIXES ACCORDING TO ASTM C1019

D.

SHOP DRAWINGS MUST INDICATE THE DATE OF THE STRUCTURAL DRAWINGS THAT WERE USED IN PREPARATION.

STRUCTURAL STEEL NOTES:

1.

STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
2.

STRUCTURAL STEEL FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED PLANT.
3.

STRUCTURAL STEEL INSTALLER MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED ERECTOR.
4.

STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:

A.

STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A572, Fy = 50 KSI

B.

STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI

C.

HOLLOW STRUCTURAL SECTIONS (HSS):

a.

SQUARE & RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI

b.

ROUND - ASTM A500, GRADE C, Fy = 46 KSI

D.

ANCHOR RODS - ASTM F1554, GRADE [36] [55]

E.

HIGH STRENGTH BOLTS - ASTM F3125, TYPE A325 (TYPICAL UON)

F.

FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)

G.

WASHERS - ASTM F436

H.

NUTS - ASTM A563

I.

HEADED STUDS - ASTM A29, GRADE 1010 THROUGH 1020
5.

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.
6.

STRUCTURAL STEEL FRAME IS CONSIDERED AS UNRESTRAINED FOR FIRE PROTECTION PURPOSES.
7.

ALL STEEL CONNECTIONS AND MEMBER REINFORCEMENT MUST BE DESIGNED BY FABRICATOR'S QUALIFIED PROFESSIONAL ENGINEER FOR LOADS INDICATED ON THE DRAWINGS, PER OPTION 3B OF ANSI/AISC 303 AND COMPLETE THE FOLLOWING:

A.

SUBMIT STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION.

B.

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.

C.

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.
8.

HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
9.

BOLTED CONNECTIONS MAY USE NON-STANDARD HOLES, EXCEPT IN THE FOLLOWING LOCATIONS:

A.

AXIAL CONNECTIONS IDENTIFIED ON PLAN.

B.

ALL FRAMING CONNECTIONS AT BRACED FRAMES AND MOMENT FRAMES.

C.

CONNECTIONS IDENTIFIED ON PLAN WITH FULL DEPTH STIFFENER PLATES.

STRUCTURAL STEEL NOTES (CONT):

10.

PROVIDE ANGLE FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK. REFERENCE PLANS AND TYPICAL DETAILS FOR SIZING REQUIREMENTS.
11.

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.
12.

INSTALLATION OF HEADED COMPOSITE STUDS MUST CONFORM TO THE REQUIREMENTS OF AWS D1.1, SECTIONS 9.4 AND 9.5. HEADED COMPOSITE STUDS MUST BE TESTED IN ACCORDANCE WITH AWS D1.1, SECTIONS 9.6, 9.7, AND 9.8 BY A QUALIFIED TESTING AGENCY.
13.

COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
14.

SHOP PRIME STEEL SURFACES, EXCEPT THE FOLLOWING:

A.

SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.

B.

SURFACES TO BE WELDED.

C.

SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.

D.

GALVANIZED SURFACES.

E.

SURFACES ENCLOSED IN INTERIOR CONSTRUCTION.
15.

CLEAN ALL STEEL SURFACES TO BE PAINTED. REMOVE LOOSE RUST, MILL SCALE, SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3 SPECIFICATION AND STANDARD.
16.

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.

E.

STEEL IN CONTACT WITH PT WOOD.
17.

STEEL MEMBERS MUST BE SPLICED ONLY WHERE INDICATED.
18.

LOCATE CONSTRUCTION JOINTS FOR SLABS ON METAL DECK MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. LOCATE JOINTS WITHIN THE MIDDLE THIRD SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. REINFORCING TO BE CONTINUOUS THROUGH JOINTS.
19.

ALL STAIR LANDINGS, STAIRS, AND STAIR SUPPORTS TO BE DESIGNED BY STAIR MANUFACTURER. LAYOUT OF STAIRS, LANDINGS, HANDRAILS, ETC. SHALL COMPLY WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DESIGN CALCULATIONS AND DRAWINGS STAMPED BY A REGISTERED ENGINEER SHALL BE SUBMITTED TO THE STRUCTURAL EOR FOR REVIEW OF LOADING. ARCHITECT AND STAIR MANUFACTURER ARE RESPONSIBLE TO REVIEW FOR CODE AND ADA COMPLIANCE. STAIR MANUFACTURER SHALL PROVIDE ALL POSTS AND CONNECTIONS TO SUPPORT STAIRS. POSTS AND HANGERS MUST BE LOCATED IN PARTITION WALLS AND LOAD THE STRUCTURE CONCENTRICALLY.

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 UNDER NLGA RULES] [SPRUCE-PINE-FIR (SOUTH) UNDER WWPA RULES] [SOUTHERN PINE GRADED UNDER SPIB RULES].
4.

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: [7/16"] INCH, APA RATED SHEATHING, [EXTERIOR EXPOSURE] [EXPOSURE 1] DURABILITY CLASSIFICATION.

B.

FLOOR SHEATHING: [23/32"] INCH, TONGUE-AND-GROOVE, APA RATED SHEATHING, [EXTERIOR EXPOSURE] [EXPOSURE 1] DURABILITY CLASSIFICATION.

C.

ROOF SHEATHING: [9/16"] INCH, APA RATED SHEATHING, [EXTERIOR EXPOSURE] [EXPOSURE 1] DURABILITY CLASSIFICATION. PROVIDE TONGUE-AND-GROOVE EDGES OR USE "PLY-CLIPS" AT MID-SPAN BETWEEN EACH SUPPORT.
5.

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.
6.

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.
7.

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.
8.

PROVIDE BRIDGING FOR ALL FLOOR JOISTS AND ROOF RAFTERS. MAXIMUM SPACING MUST BE 8'-0", UNLESS OTHERWISE NOTED.
9.

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.
10.

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.
11.

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.
12.

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.
13.

ALL CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT-DIP GALVANIZED COATED.
14.

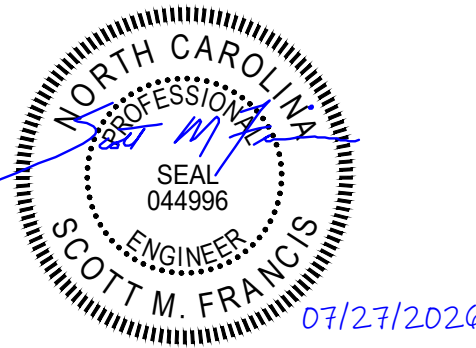
POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:

A.

STEEL: SHEAR = 600 LBS
TENSION = 250 LBS

B.

CONCRETE: SHEAR = 260 LBS
TENSION = 255 LBS



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GENERAL NOTES

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

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WS-S002

WOOD DECK NOTES:

1. ROOF DECKING SHALL BE AS NOTED ON PLANS, TONGUE AND GROOVE CONTINUOUS LAY UP (NO LAPS).
2. ALL EXTERIOR EXPOSED STRUCTURAL WOOD DECKING AND BLOCKING, AND SHEATHING IS TO BE EXTERIOR GRADE PRESSURE PRESERVATIVE TREATED, MIN. RETENTION 0.25 PCF.
3. WOOD DECKING TO BE STRESS RATED DOUG FIR OR SPRUCE-PINE-FIR #1 OR BETTER.
4. SCREW LENGTH TO FIT APPLICATION. ALL SCREWS SHALL PENETRATE A MINIMUM OF 1 3/4" BUT NOT MORE THAN THE FULL THICKNESS OF THE MEMBER. INSTALL PER MANUFACTURER'S INSTRUCTIONS. NOTE: SIMPSON STRONG DRIVE SCREWS ARE DEFINED AS SELF-TAPPING. OTHER SCREWS TYPES MAY REQUIRE PRE-DRILLING. MINIMUM SCREW/BOLT SIZE #12, U.O.N.
5. STRUCTURAL MEMBERS WHOSE STRENGTH IS IMPAIRED BY IMPROPER CUTTING, DRILLING, OR EXCESSIVE DEFECTS SHALL BE REPLACED OR REINFORCED IN A MANNER ACCEPTABLE TO THE ARCHITECT.
6. FASTEN WOOD DECKING TO SUPPORTS WITH NOT LESS THAN #14 SCREWS AT 4" O.C.
7. 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 SHEATHING, SIZE INDICATED ON THE DRAWINGS APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION.
8. FIELD TREAT ALL CUTS AND ABRASIONS IN TREATED TIMBERS IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD M4. TRIM ALL CUTS AND ABRASIONS BEFORE FIELD TREATMENT. COAT ALL DEPRESSIONS OR OPENINGS AROUND BOLT HOLES, JOINTS OR GAPS INCLUDING RECESSES FORMED BY COUNTER BORING, WITH PRESERVATIVE TREATMENT USED FOR TIMBER
9. UNLESS OTHERWISE NOTED, ATTACHED BLOCKING AND NAILERS TO THE STEEL FRAMING USING 3/16 INCH DIAMETER POWDER ACTUATED FASTENERS AT 24 INCHES ON CENTER, STAGGER FASTENERS AT ALTERNATE SIDES OF BEAM WEB.
10. 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.

STRUCTURAL DELEGATED DESIGN ELEMENT NOTES:

1. THE FOLLOWING BUILDING ELEMENTS REQUIRE DELEGATED DESIGN AND ENGINEERING BY A SPECIALTY STRUCTURAL ENGINEER:

A. GLAZING ASSEMBLY CONNECTIONS TO THE STRUCTURE

B. COLD-FORMED METAL FRAMING (CMF)

C. STRUCTURAL STEEL CONNECTIONS

D. MECHANICAL, ELECTRICAL, AND PLUMBING SUPPORTS AND DISTRIBUTIONS SYSTEMS, INCLUDING BRACING AND ATTACHMENTS

REFERENCE SPECIFICATIONS FOR COMPLETE REQUIREMENTS
2. SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF THE CONTROLLING LOAD CASES FOR EACH LOCATION.
3. IN ADDITION TO THEIR OWN DEAD WEIGHT AND THE DEAD LOADS SHOWN OR INDICATED IN THE DRAWINGS, MEMBERS MUST BE DESIGNED TO SUPPORT THE LOADS INDICATED IN THE GENERAL NOTES.
4. CONNECTION DETAILS SHOWN ARE SCHEMATIC ONLY. ALL CONNECTIONS MUST BE DESIGNED AND DETAILED BY THE MANUFACTURER TO SUIT THE SPECIFIED LOADS. CONNECTIONS MUST ACCOUNT FOR THERMAL MOVEMENT, DEFLECTION, CREEP, MANUFACTURING TOLERANCES, AND ERECTION TOLERANCES. DETAIL ALL CONNECTIONS ON SHOP DRAWINGS.
5. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION OF ALL SPECIALTY STRUCTURAL ELEMENTS AND COST ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING STRUCTURE, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.

POST-INSTALLED ANCHOR NOTES:

1. ANCHORS TO BE POST-INSTALLED ONLY WHERE INDICATED ON CONSTRUCTION DOCUMENTS. ANY SUBSTITUTE OF CAST-IN ANCHOR TO POST-INSTALLED ANCHORS MUST BE SUBMITTED AS A REQUEST FOR DEVIATION TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
2. 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 PER ICCESR-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.

3. 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.

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

5. 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.

6. 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.

7. 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.

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

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GENERAL NOTES

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date07/27/2026

WS-S003



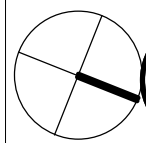
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See Note 1 of 107

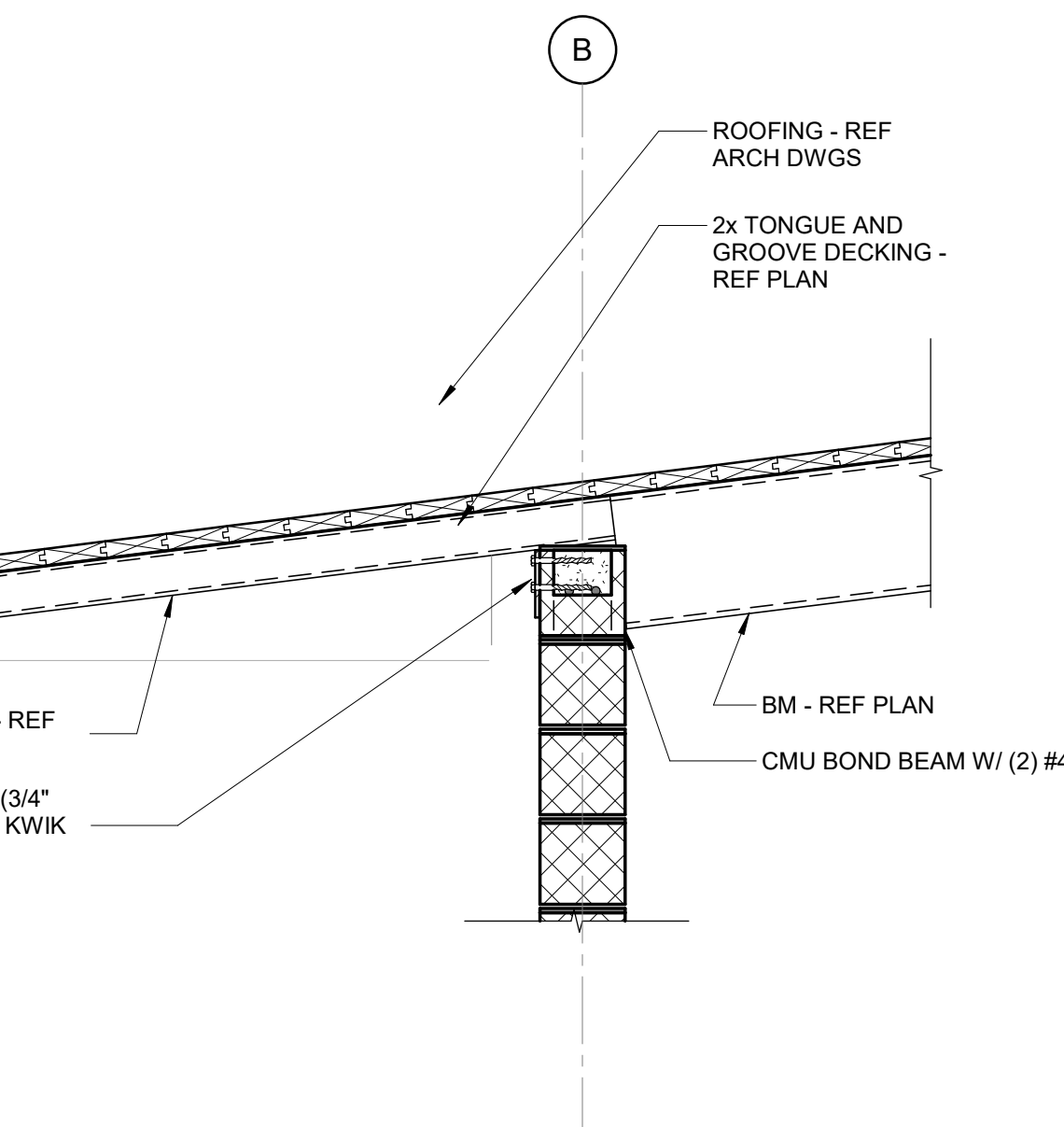
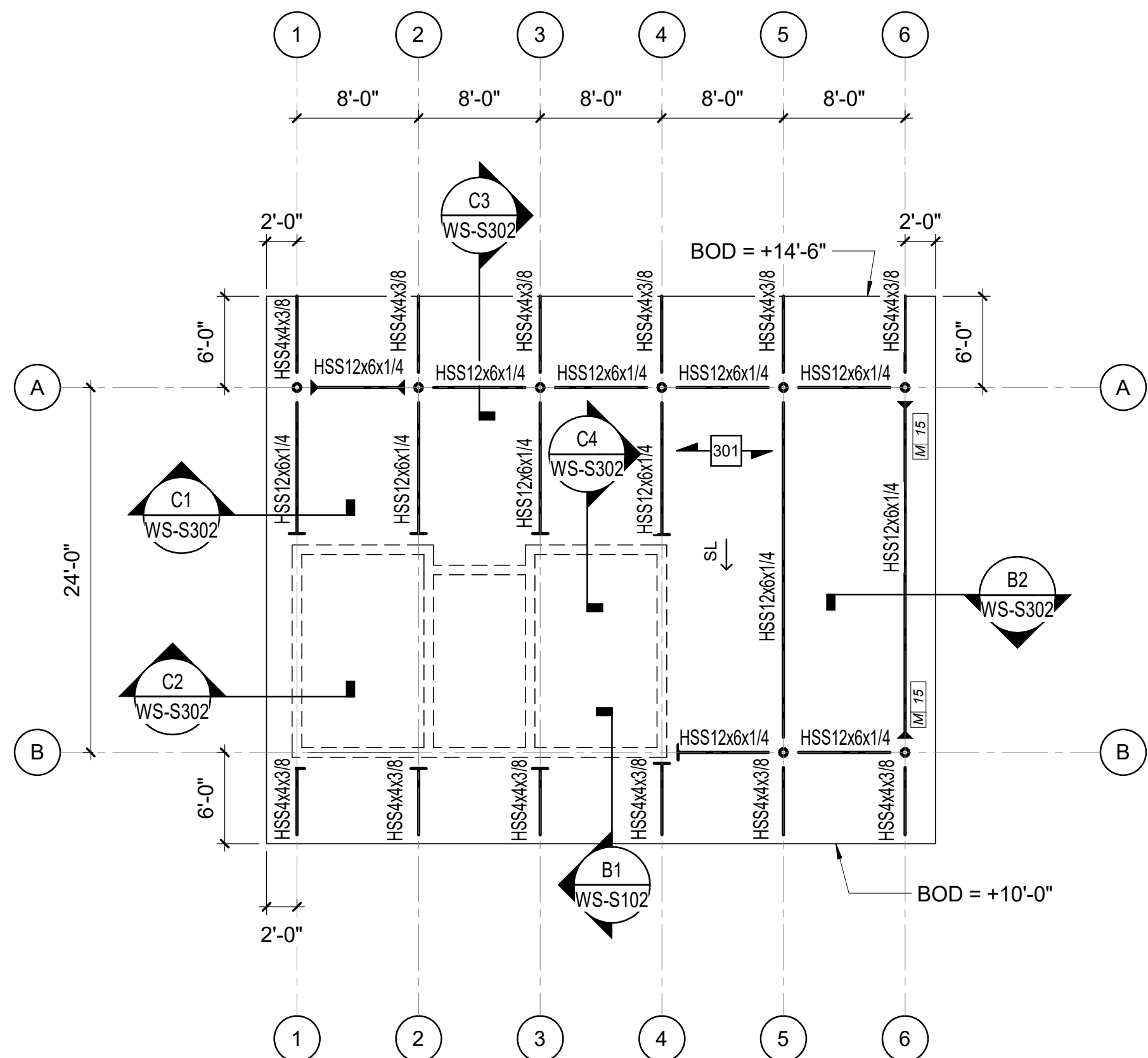
WS-S101



A1

WESTERN SHELTER ROOF FRAMING PLAN

1/8" = 1'-0"



B1

SECTION

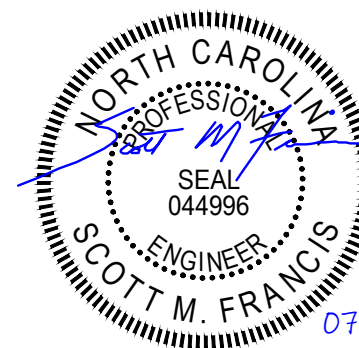
3/4" = 1'-0"

KEY NOTES

- 301 2x6 TONGUE AND GROOVE WOOD DECKING WITH 9/16" PLYWOOD.

FRAMING PLAN NOTES

- A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.
- C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED [10'-0"] ON-CENTER).
- D. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- E. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS MUST 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.



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WESTERN SHELTER
ROOF FRAMING
PLAN

LAKE MYRA COUNTY PARK
Wake County, NC

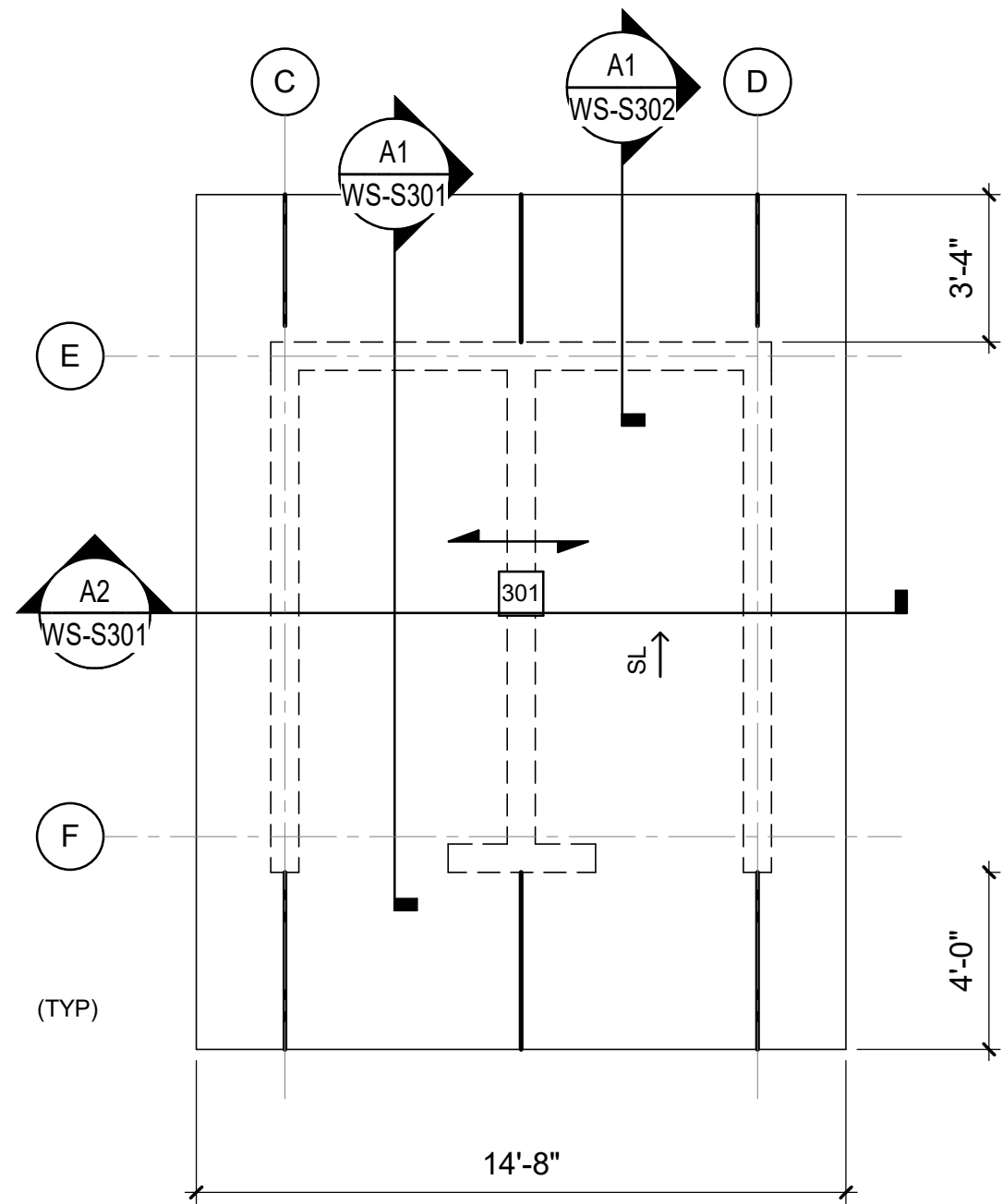
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Date 07/27/2026

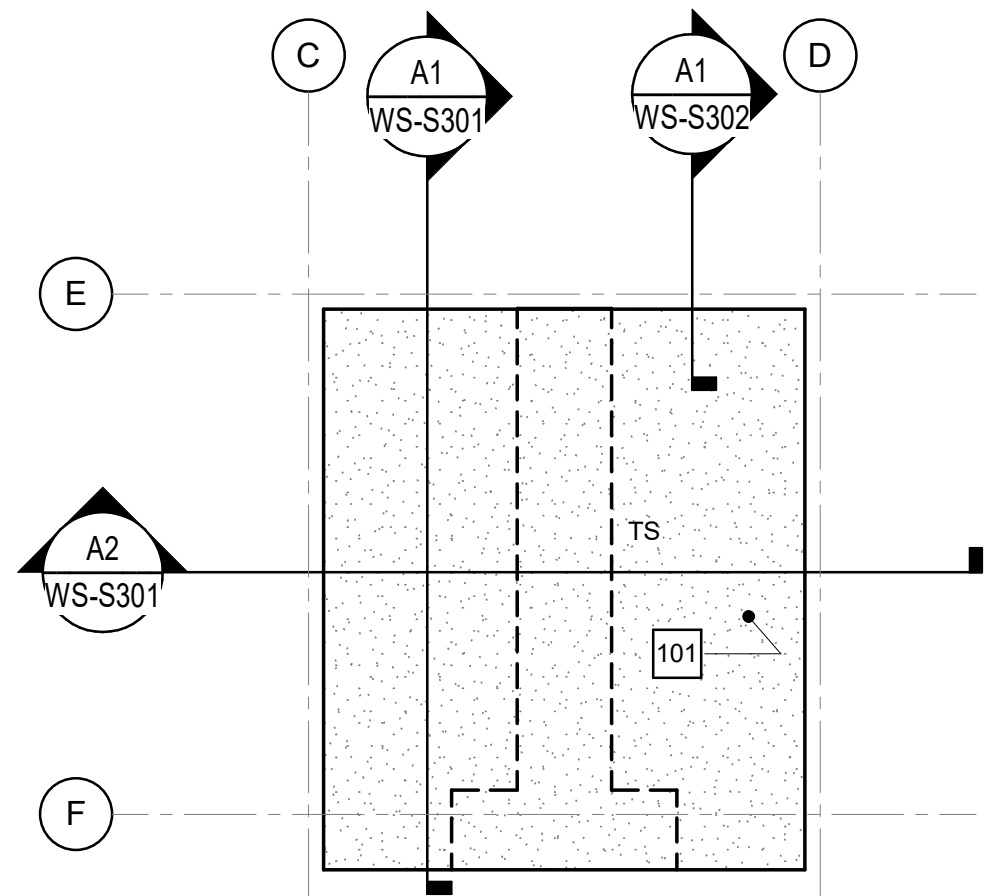
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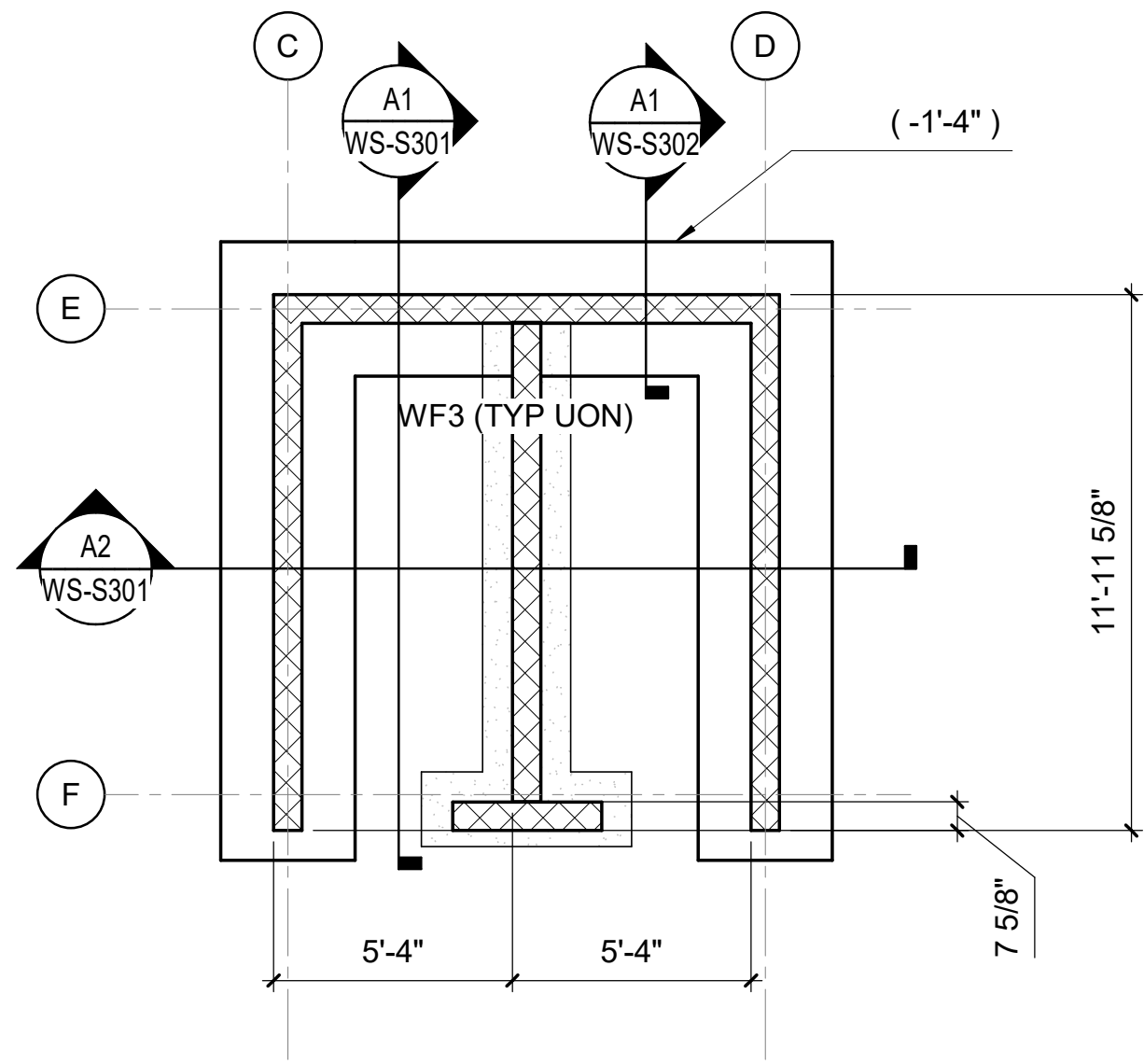




C1 WELL HOUSE ROOF FRAMING PLAN
1/4" = 1'-0"



B1 WELL HOUSE SLAB PLAN
1/4" = 1'-0"



A1 WELL HOUSE FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION 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 XX.XX'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL COLUMN AND WALL FOOTINGS MUST BE AT THE FOLLOWING ELEVATIONS UNLESS OTHERWISE NOTED ON PLAN. EXTERIOR WALL AND COLUMN FOOTINGS -1'-4". INTERIOR WALL FOOTINGS -0'-8".
- 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 "TYPICAL STEPPED 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 "TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS."
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.
- F. NOT ALL SITE WALLS ARE SHOWN ON PLAN. CONTRACTOR MUST COORDINATE CIVIL AND LANDSCAPE DRAWINGS FOR SITE WALL INFORMATION.
- G. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.
- B. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.
- C. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.
- D. 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.
- E. PLACE (1) #4 x 3'-0" IN MIDDEPTH OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.

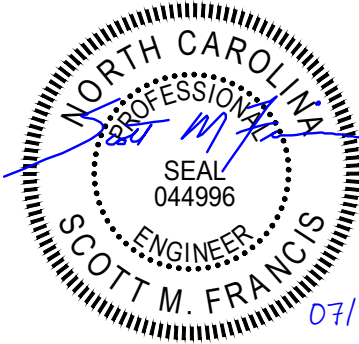
FRAMING PLAN NOTES

- A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.
- C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED [10'-0"] ON-CENTER).
- D. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- E. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS MUST 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.

KEY NOTES

- 101 5" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL. REINFORCE WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING.
- 301 2x6 TONGUE AND GROOVE WOOD DECKING WITH 9/16" PLYWOOD.

WALL FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF2.5	2' - 6"	1'-0"	(3) #5 BOT	# _ AT _ " OC BOT	-
WF3	3' - 0"	1'-0"	(4) #5 BOT	# _ AT _ " OC BOT	-
WF4	4' - 0"	1'-0"	(5) #5 BOT	# _ AT _ " OC BOT	-
WF6	6' - 0"	1'-0"	(7) #5 BOT	# _ AT _ " OC BOT	-



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WELL HOUSE PLANS

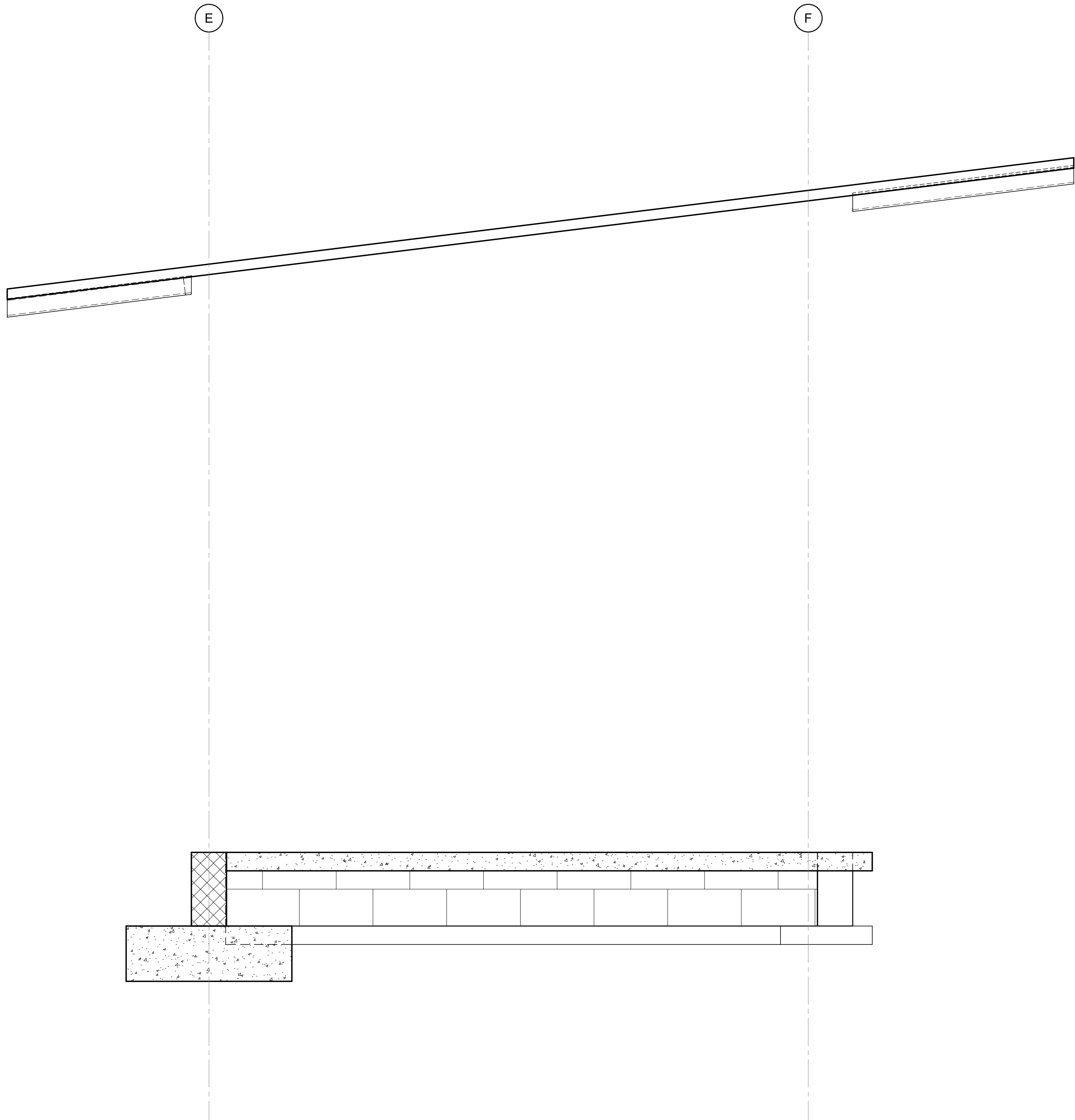
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

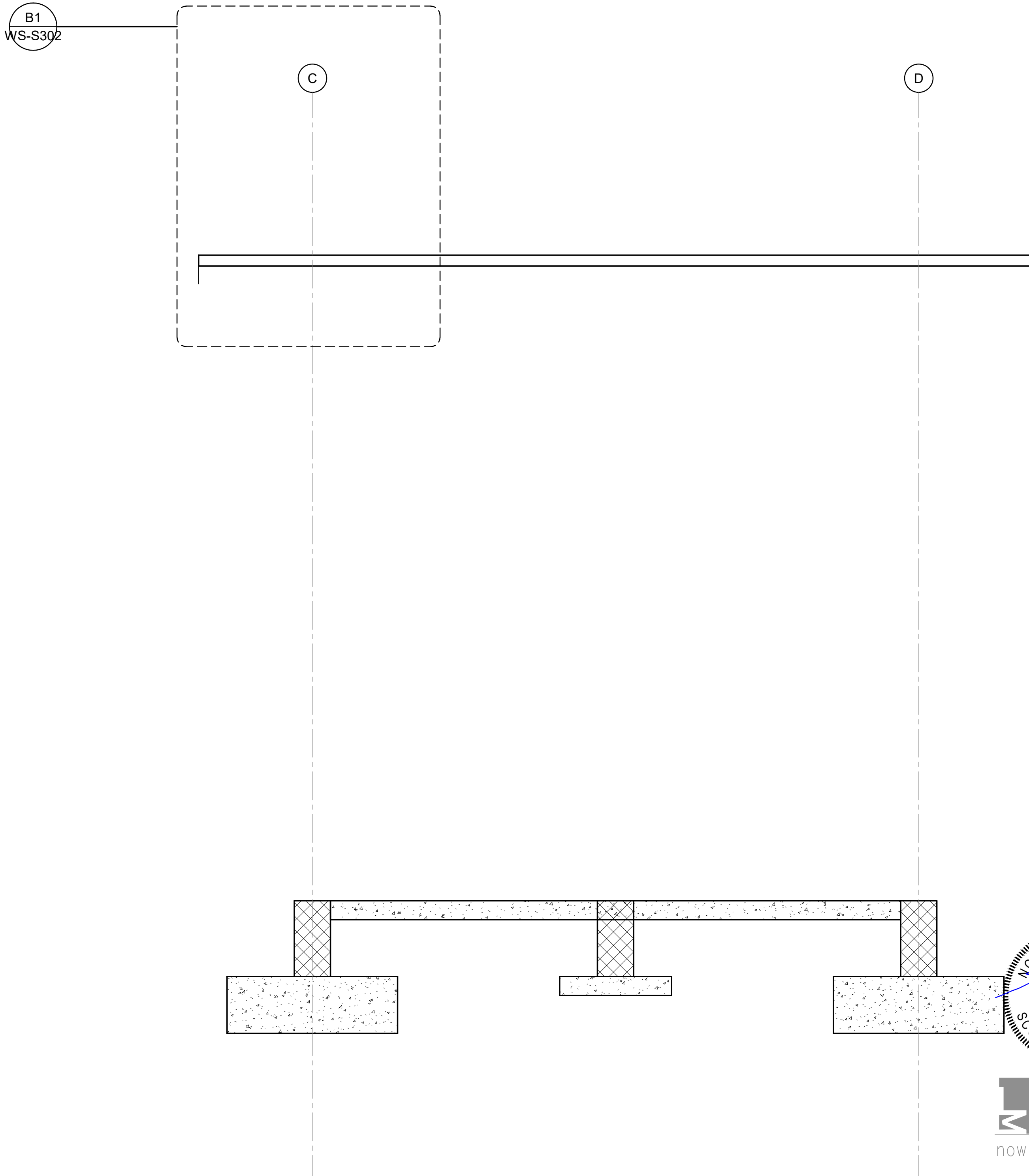
Date07/27/2026

WS-S103

A1 SECTION
3/4" = 1'-0"

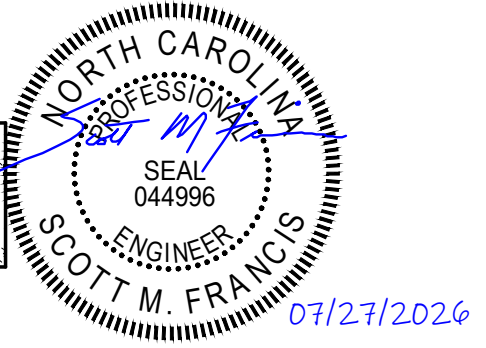


A2 SECTION
3/4" = 1'-0"



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WELL HOUSE
SECTIONS

LAKE MYRA COUNTY PARK
Wake County, NC

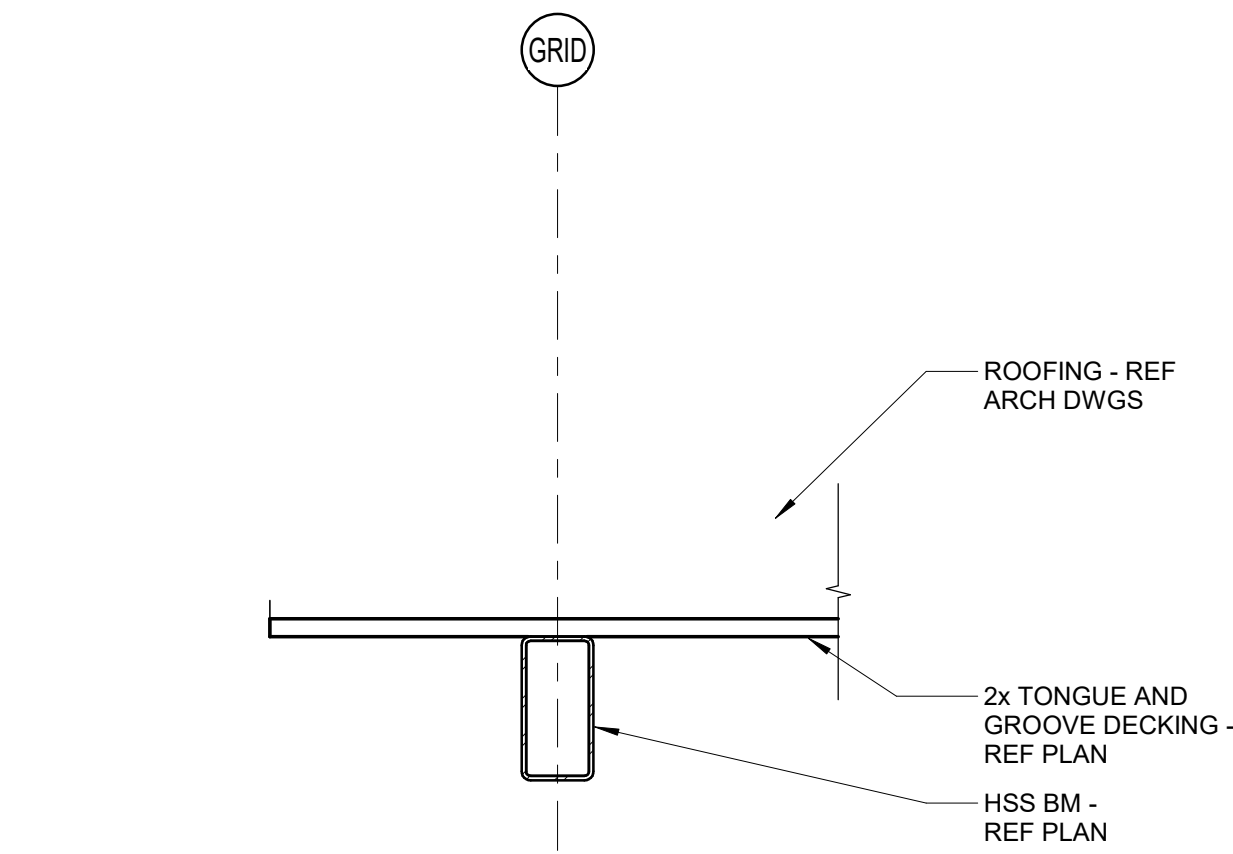
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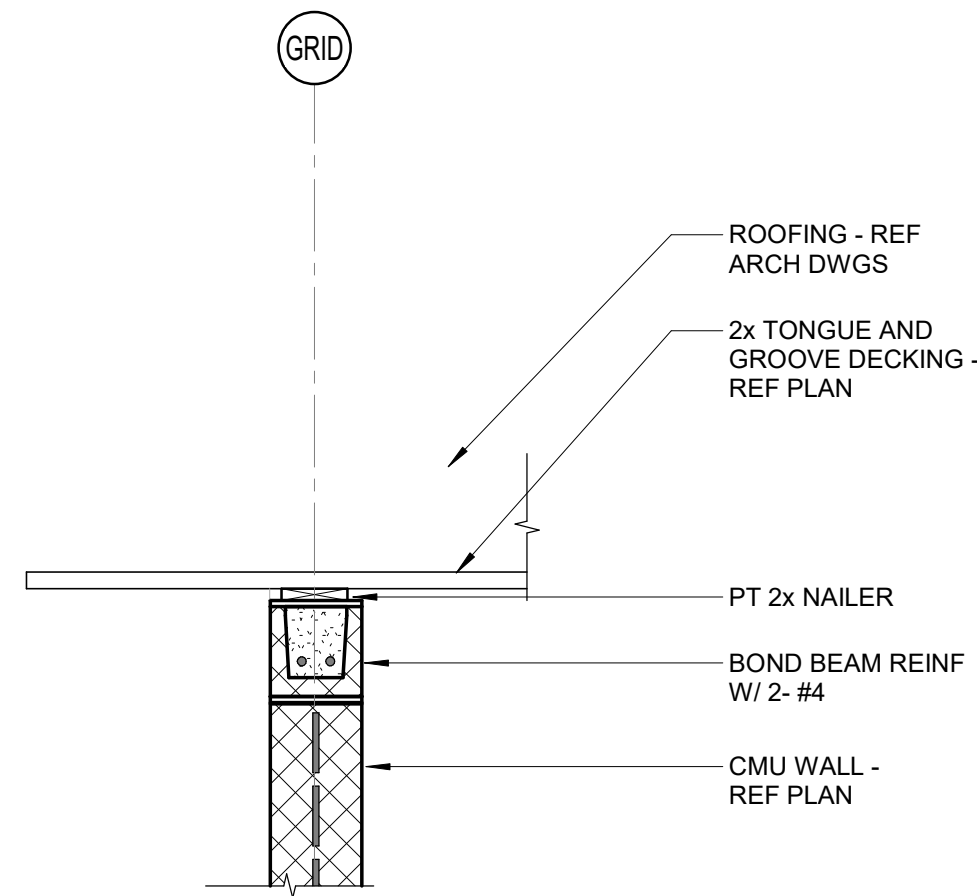
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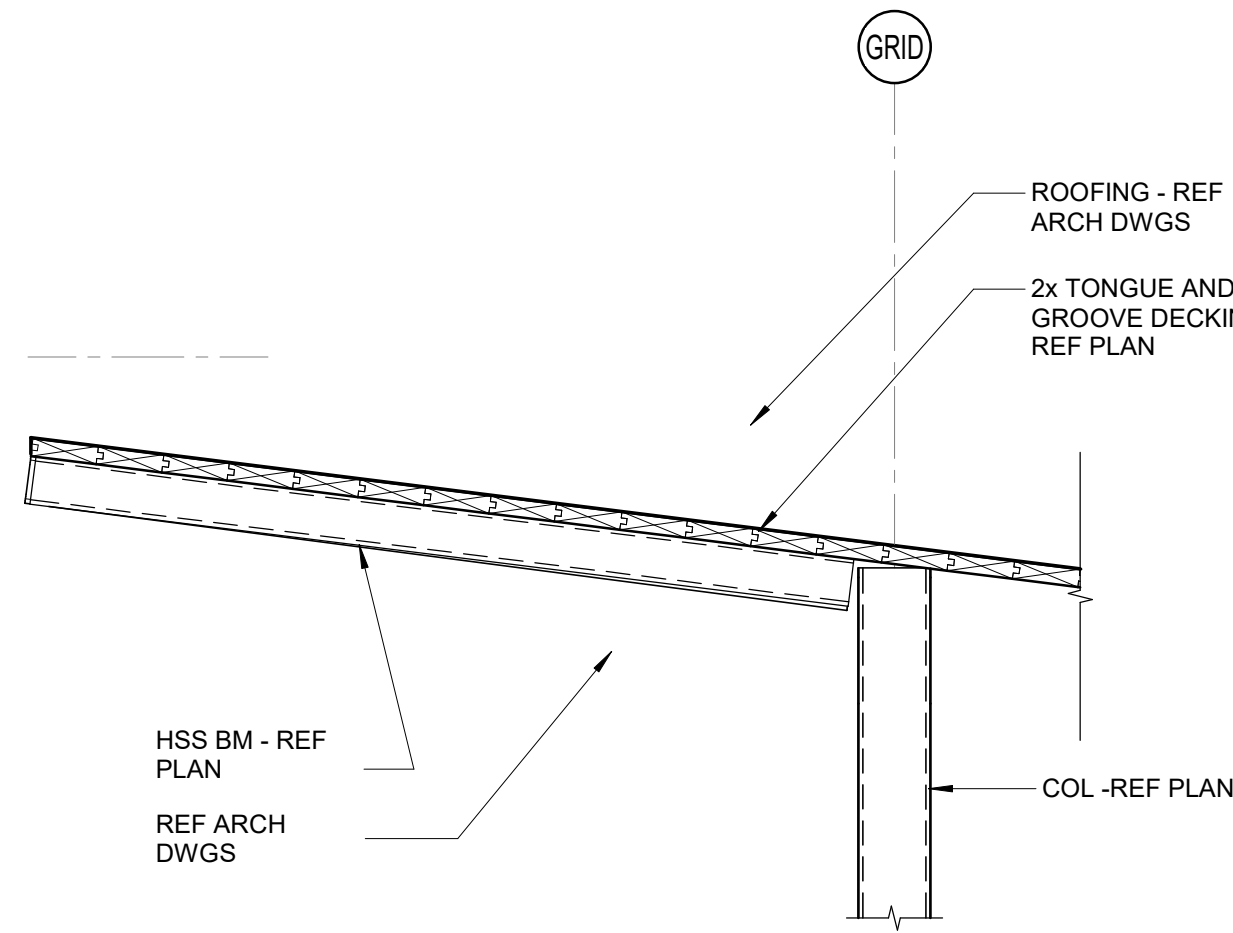
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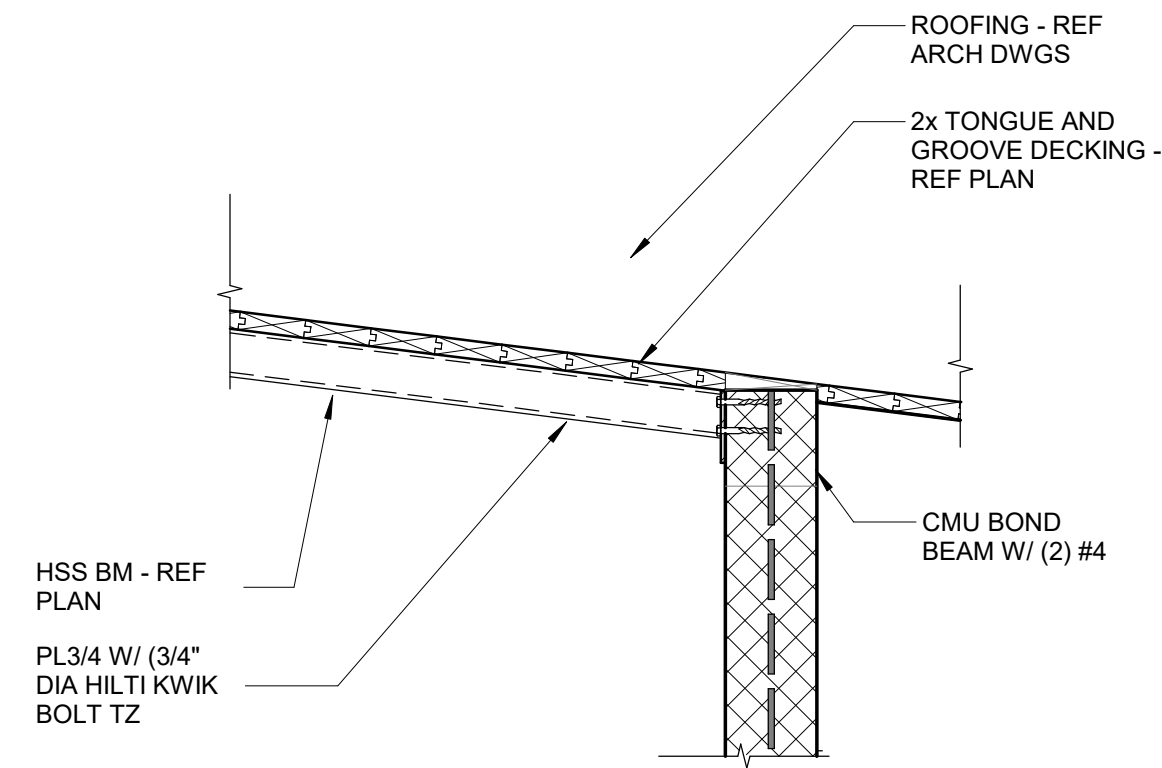
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3/4" = 1'-0"



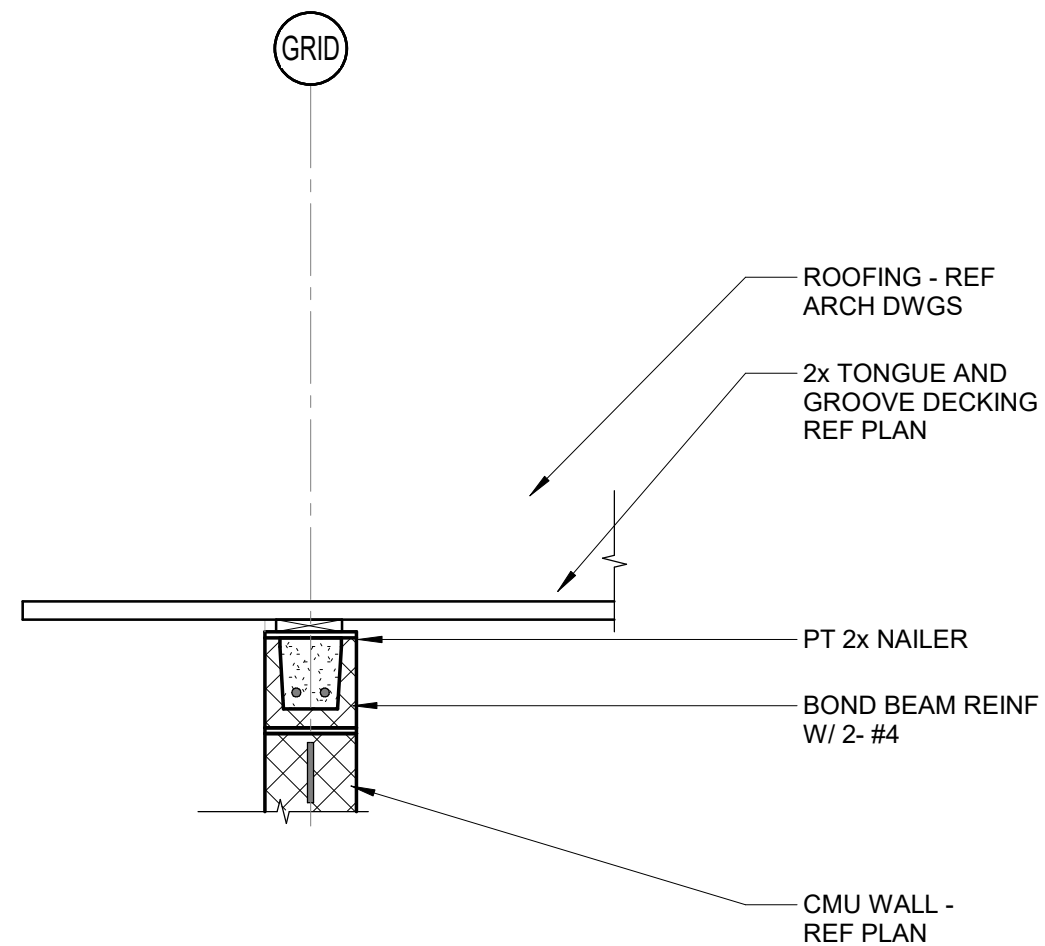
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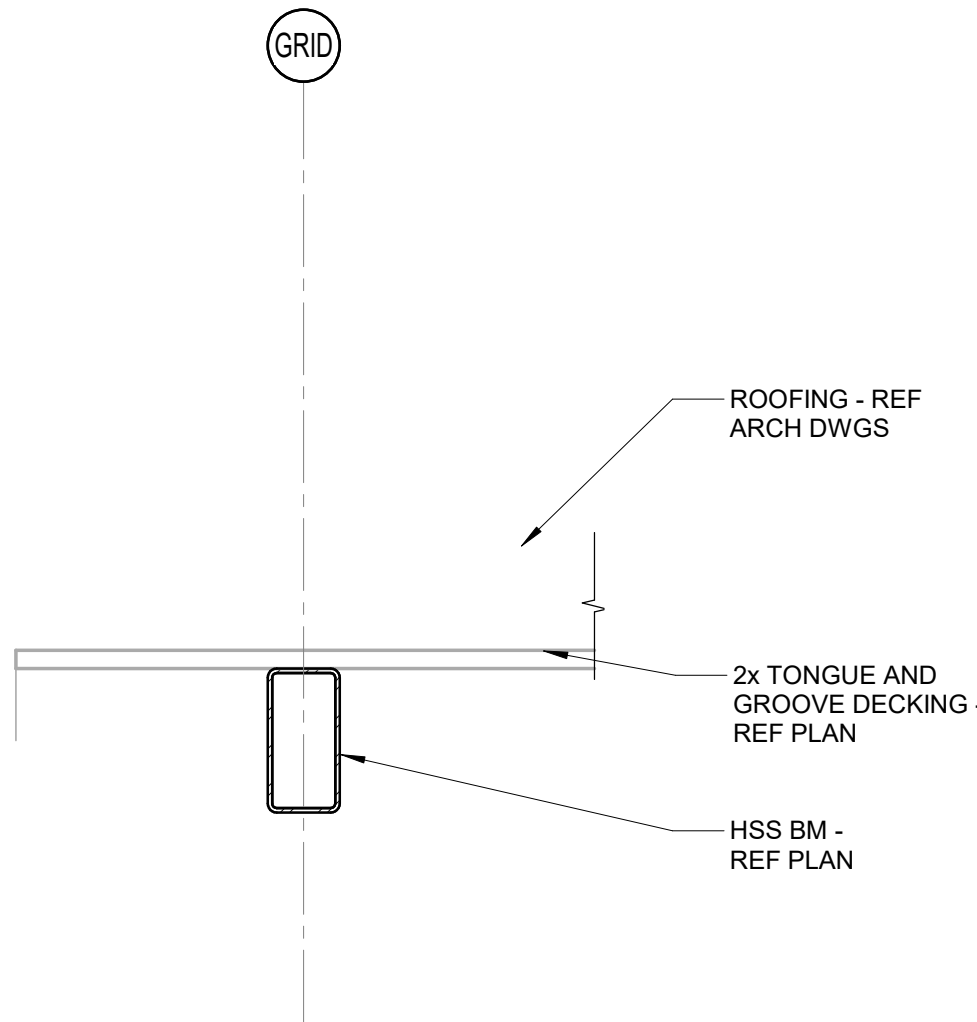
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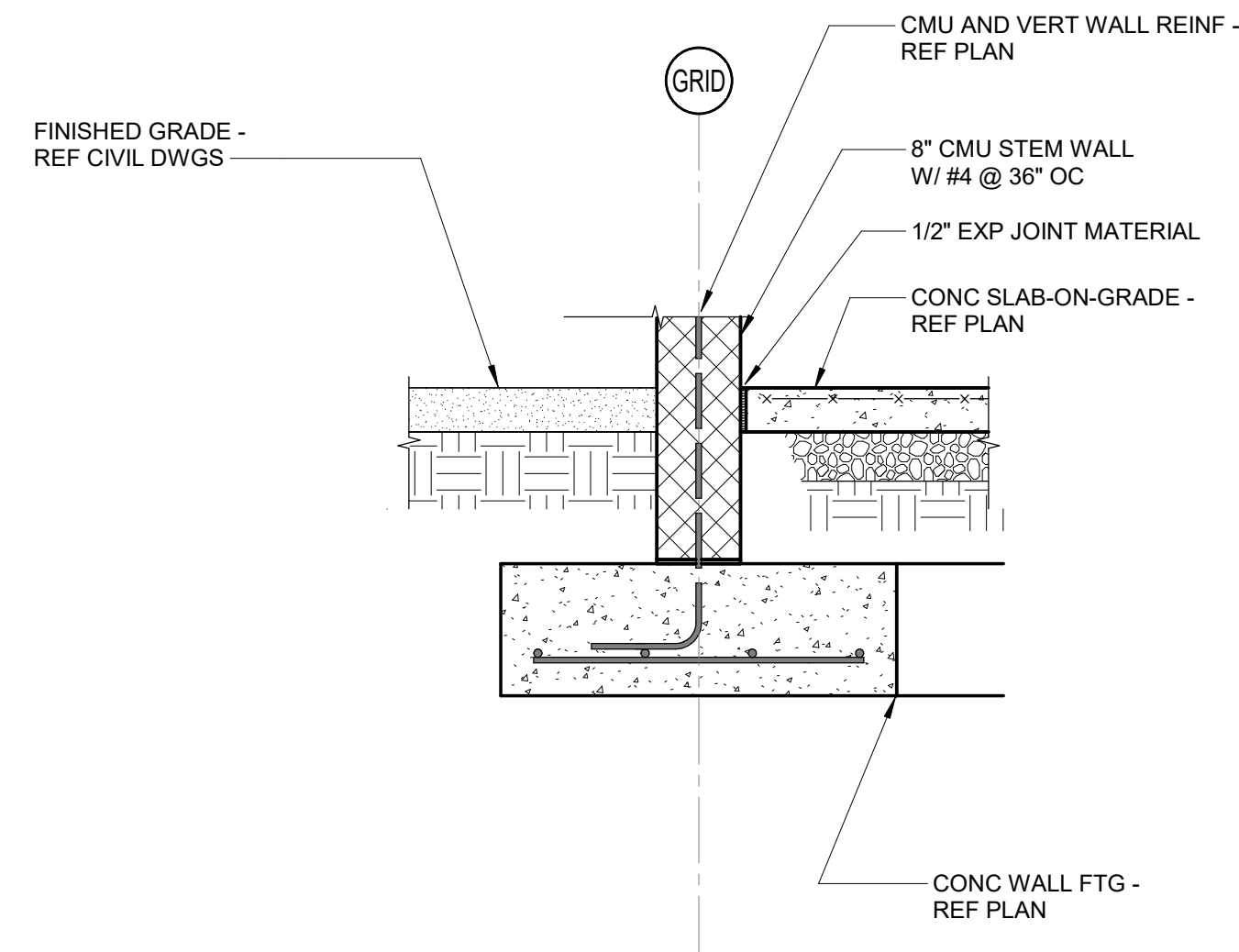
C4 SECTION
3/4" = 1'-0"



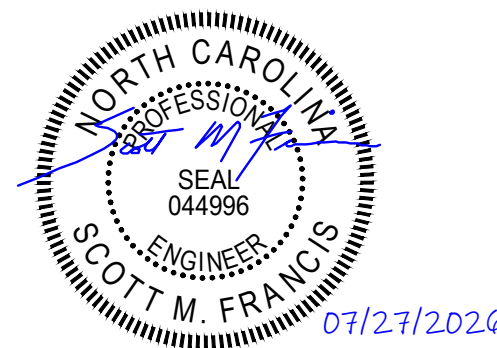
B1 SECTION
3/4" = 1'-0"



B2 SECTION
3/4" = 1'-0"



A1 SECTION
3/4" = 1'-0"



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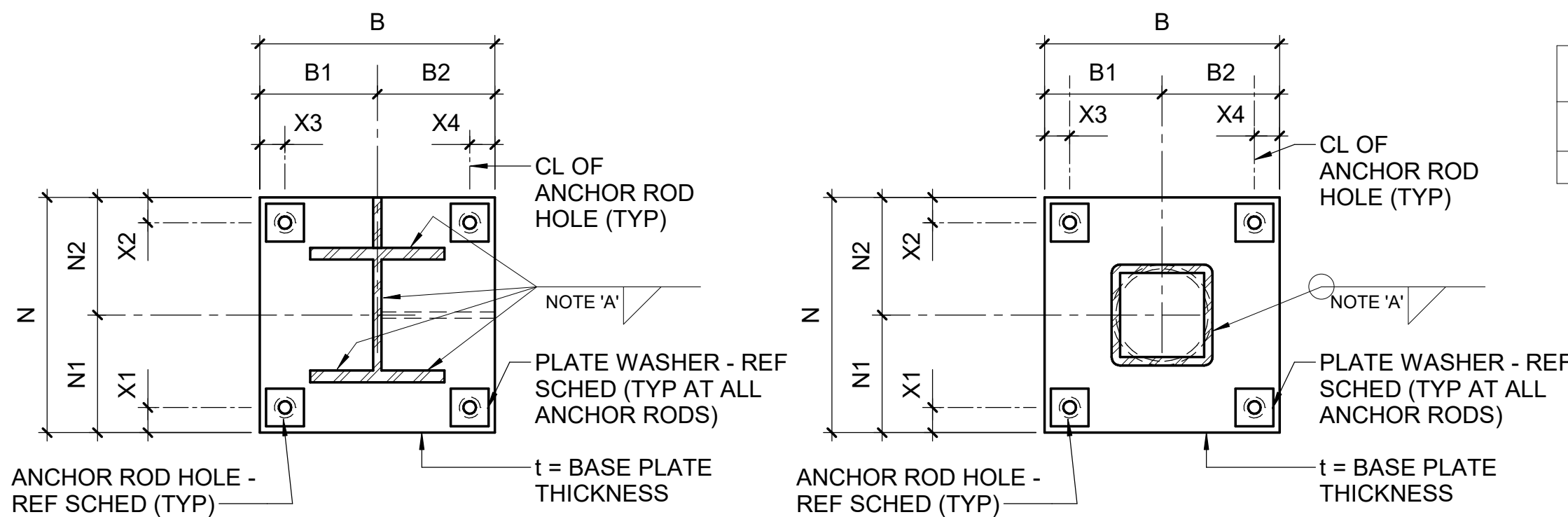


WELL HOUSE
SECTIONS

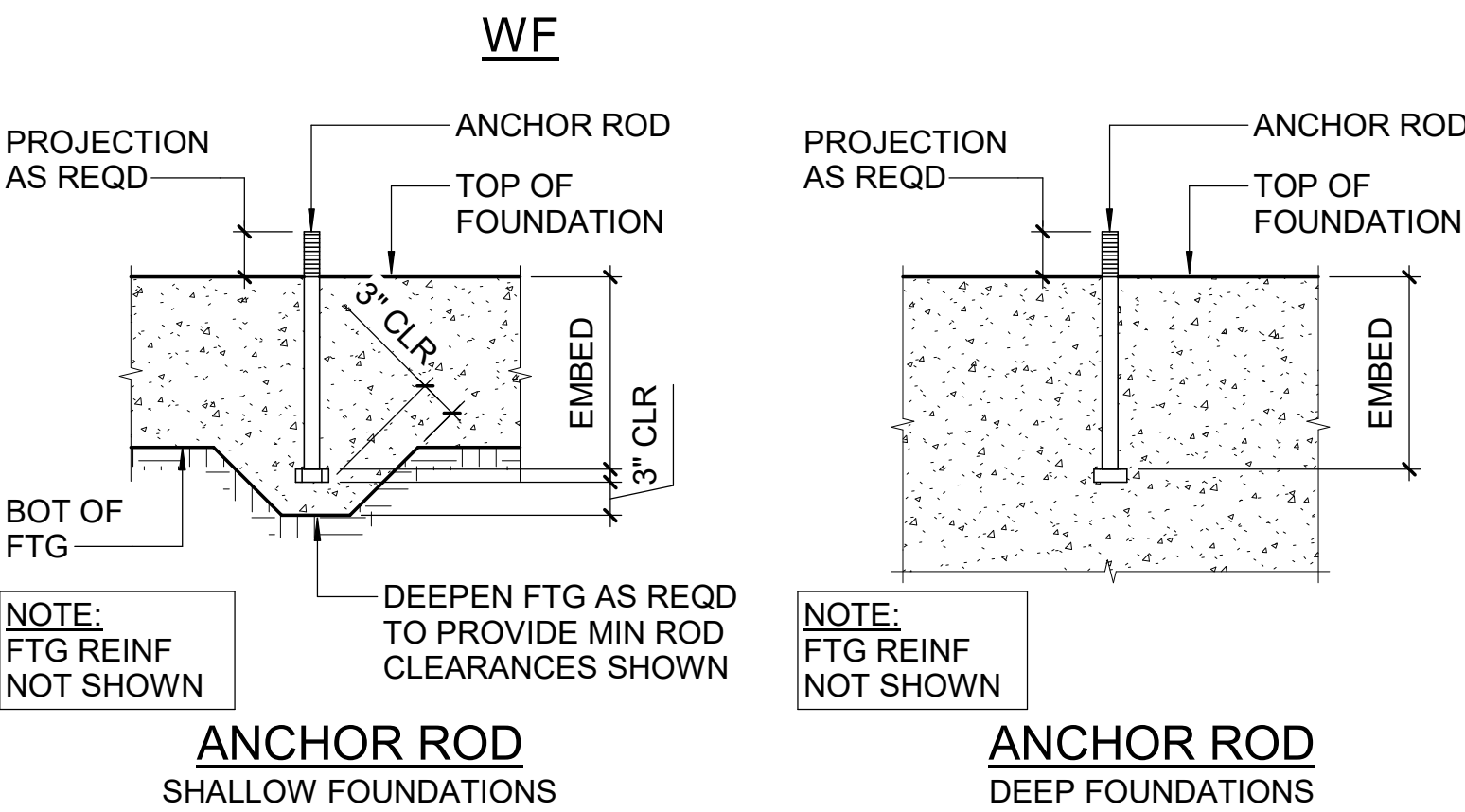
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date 07/27/2026
WS-S302



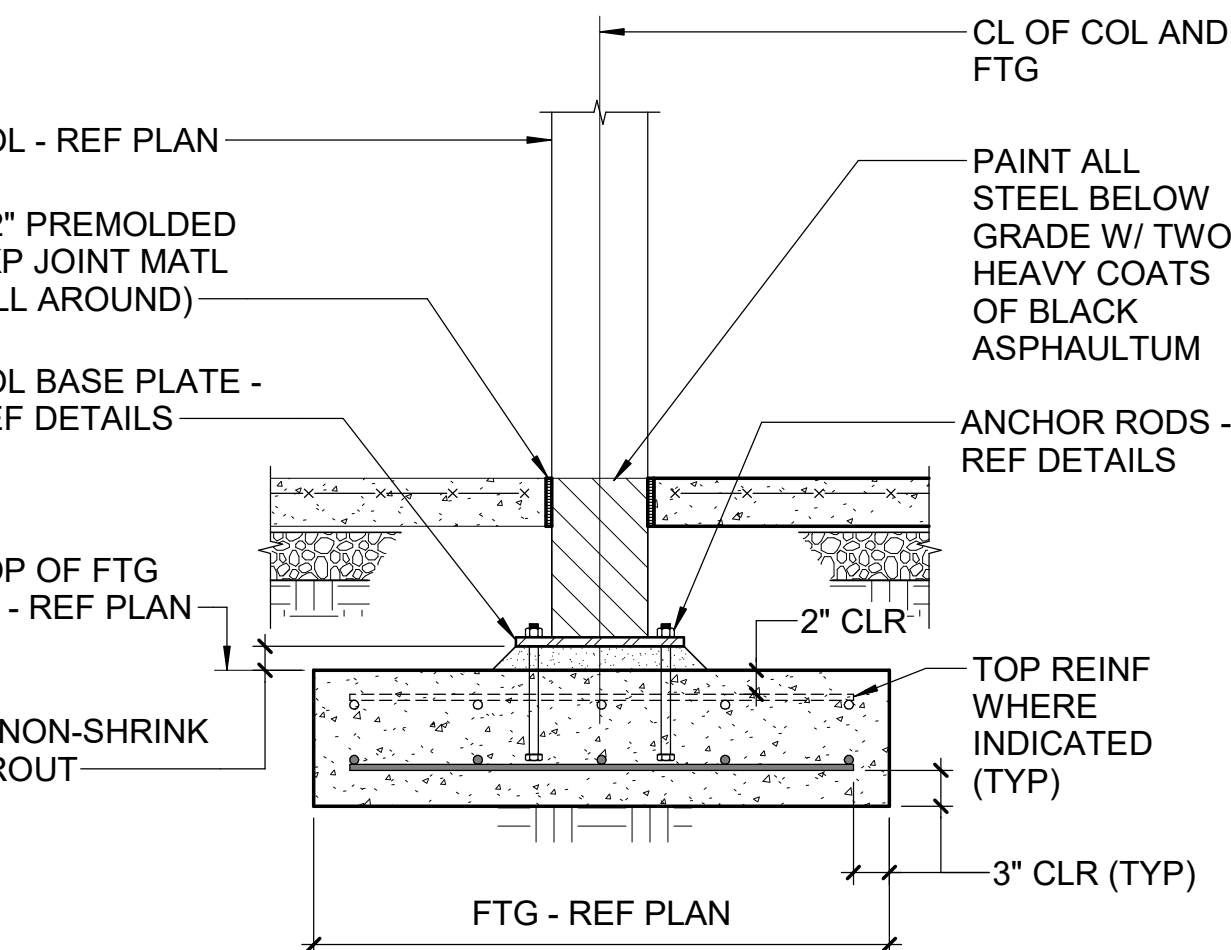
COLUMN BASE PLATE SCHEDULE - GRAVITY COLUMNS															
MARK	BASE PLATE DIMENSIONS										ANCHOR RODS			REMARKS	
	B	N	t	B1	B2	N1	N2	X1	X2	X3	X4	DIAMETER	QUANTITY		EMBED
BPG-1	16"	16"	3/4"	8"	8"	8"	8"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	3/4"	4	9"	



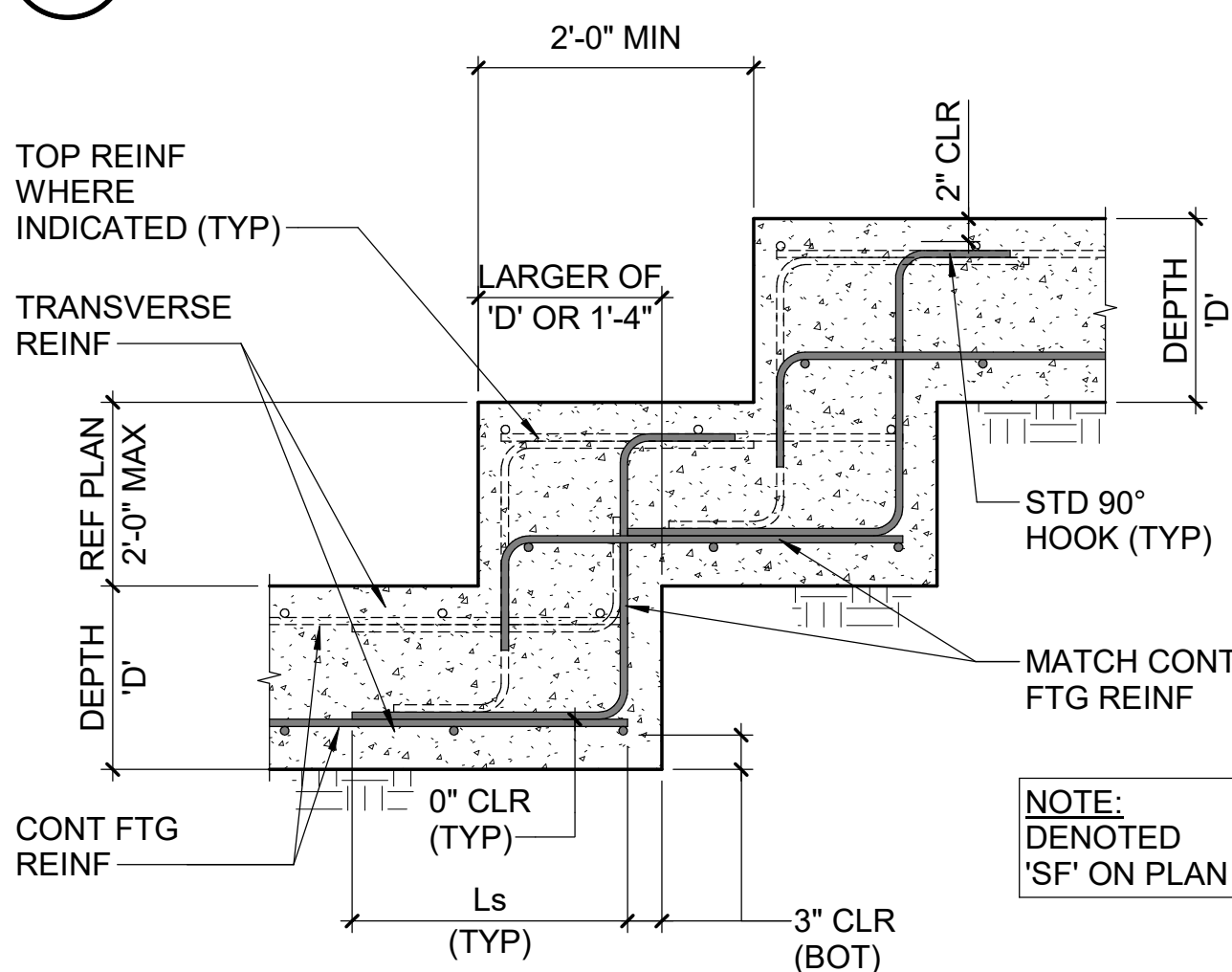
ANCHOR ROD HOLES AND WASHER SCHEDULE						
ANCHOR ROD	OVERSIZED HOLE WITH PLATE WASHER				STANDARD HOLE	
	BASE PLATE HOLE	WASHER SIZE	WASHER HOLE	WASHER THICKNESS	BASE PLATE HOLE	WASHER
3/4"Ø	1 5/16"Ø	2" SQ	13/16"Ø	1/4"	1 1/16"Ø	ASTM F844
7/8"Ø	1 9/16"Ø	2 1/2" SQ	15/16"Ø	5/16"	1 3/16"Ø	ASTM F844
1"Ø	1 13/16"Ø	3" SQ	1 1/16"Ø	3/8"	1 1/2"Ø	ASTM F844
1 1/4"Ø	2 1/16"Ø	3 1/2" SQ	1 5/16"Ø	1/2"	1 3/4"Ø	ASTM F844
1 1/2"Ø	2 5/16"Ø	4" SQ	1 9/16"Ø	1/2"	2"Ø	ASTM F844

NOTE:
A. PROVIDE MINIMUM SIZE WELD PER AISC TABLE J2.4.
B. GENERAL CONTRACTOR'S OPTION TO USE STANDARD OR OVERSIZED HOLES IN GRAVITY COLUMN BASE PLATES. NO WELDING REQUIRED AT PLATE WASHERS USED WITH OVERSIZED HOLES.

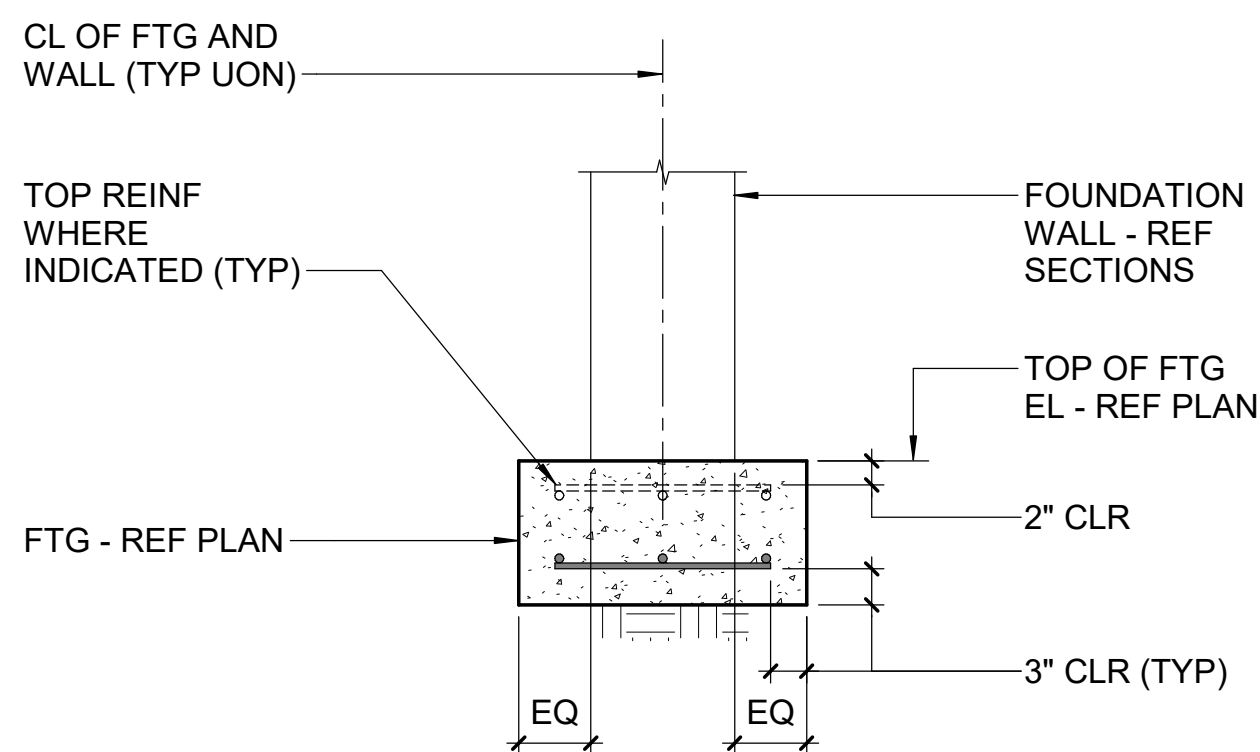
C1 GRAVITY COLUMN BASE PLATE AND ANCHOR ROD DETAILS



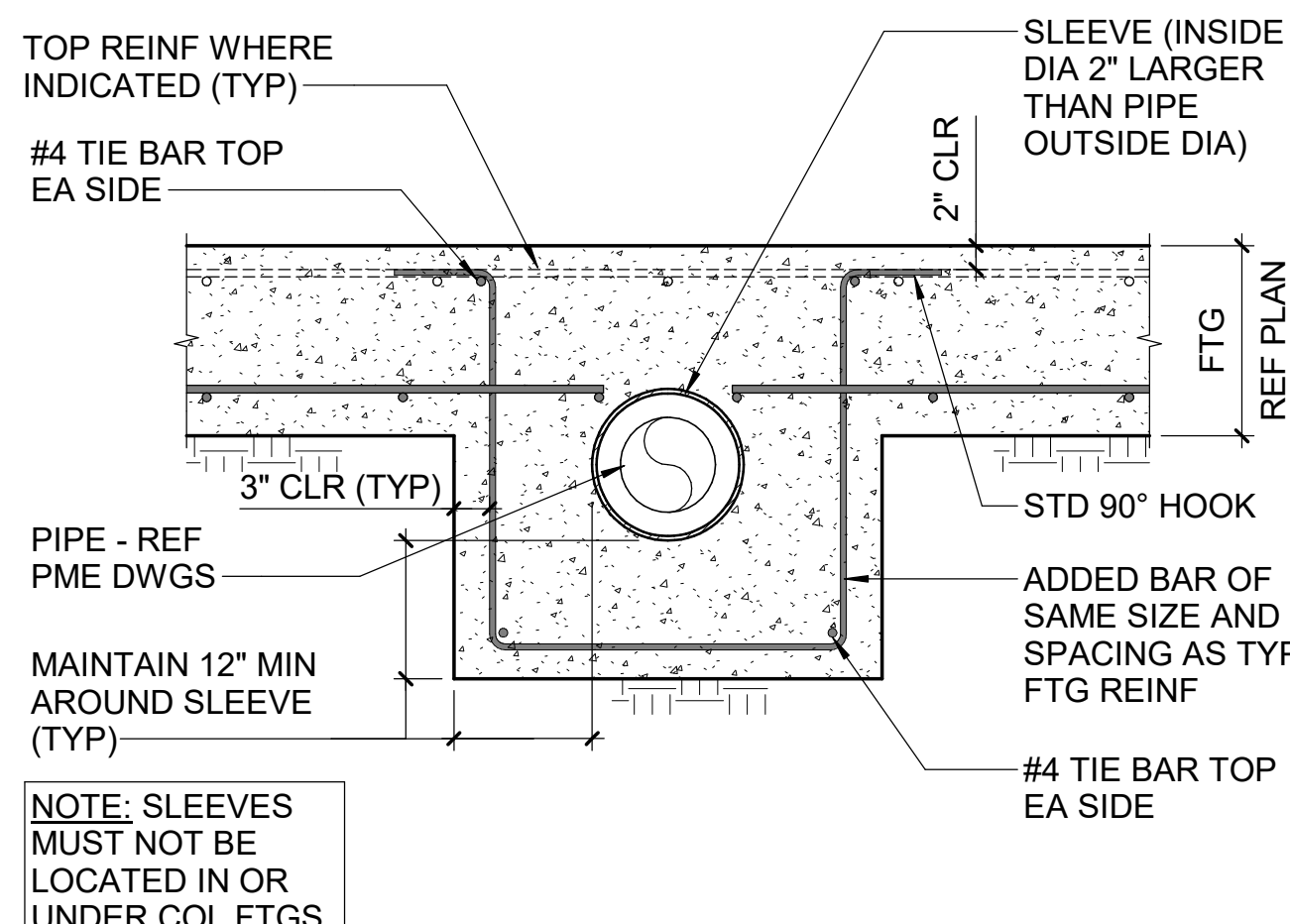
B1 TYPICAL COLUMN & FOOTING DETAIL



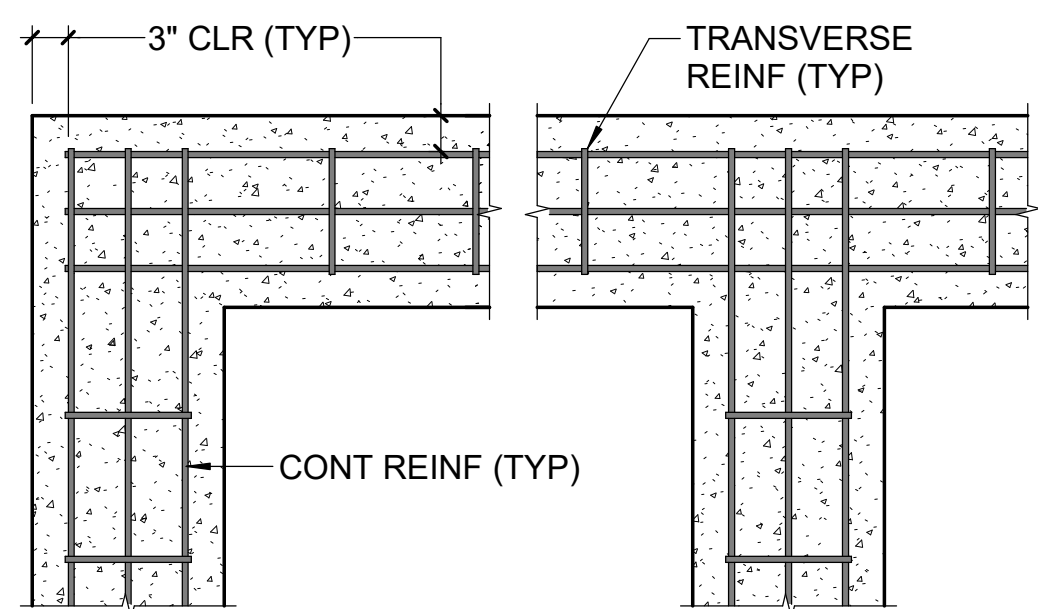
A1 TYPICAL STEPPED WALL FOOTING DETAIL



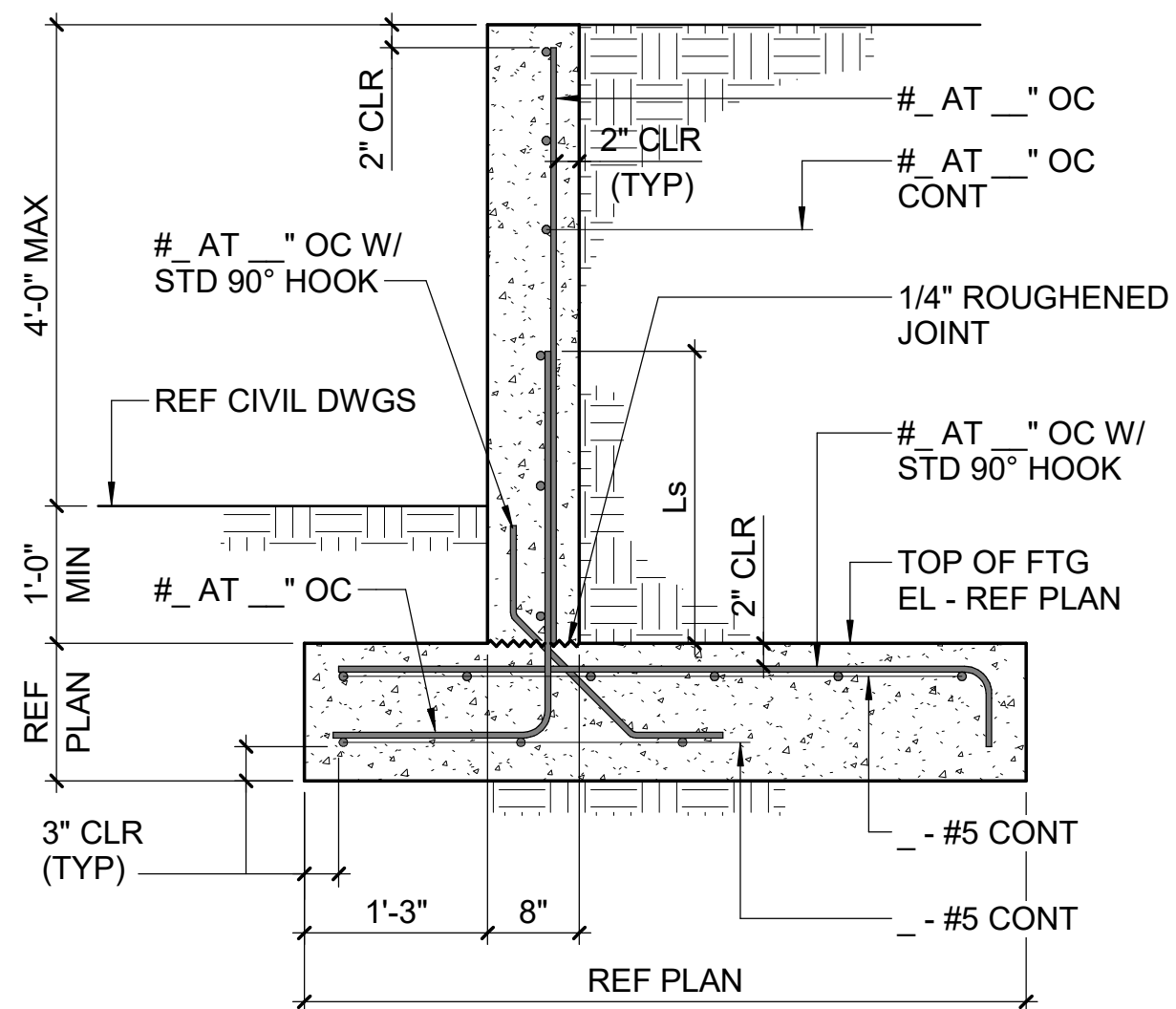
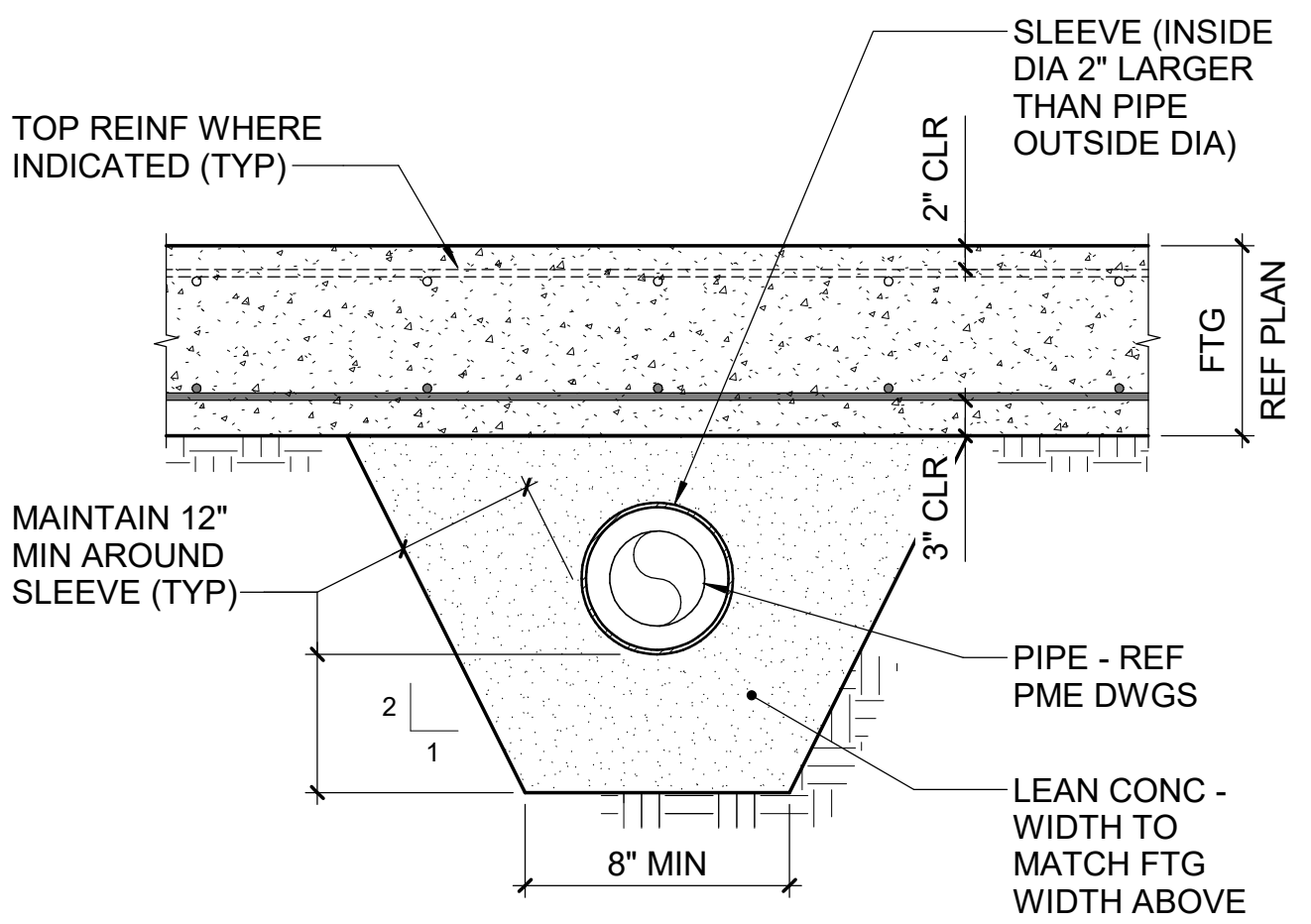
B2 TYPICAL WALL FOOTING DETAIL



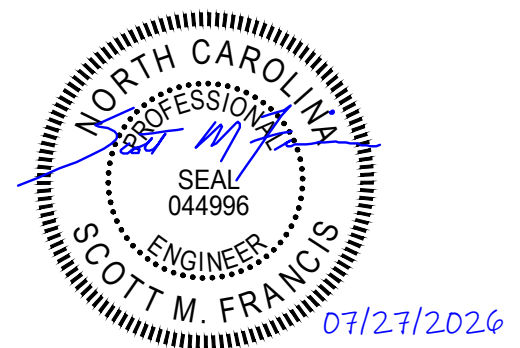
A2 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS



B3 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS



B4 TYPICAL RETAINING WALL FOOTING DETAIL



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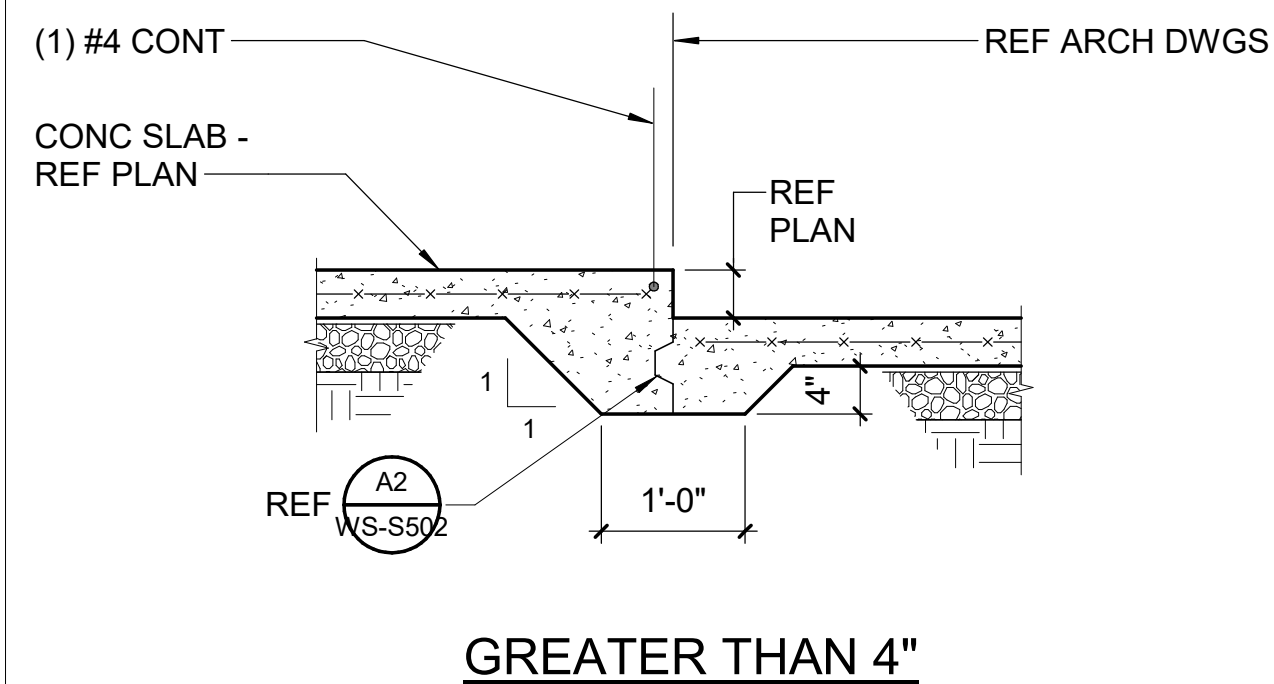


TYPICAL DETAILS

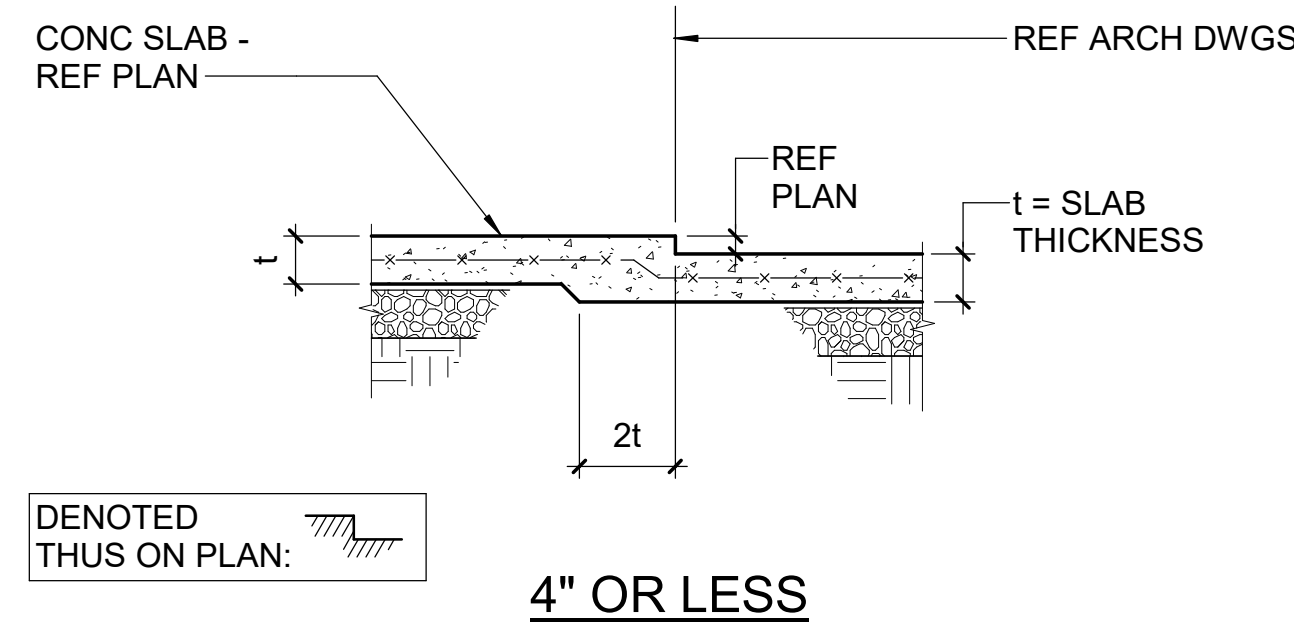
LAKE MYRA COUNTY PARK Wake County, NC

REVISIONS

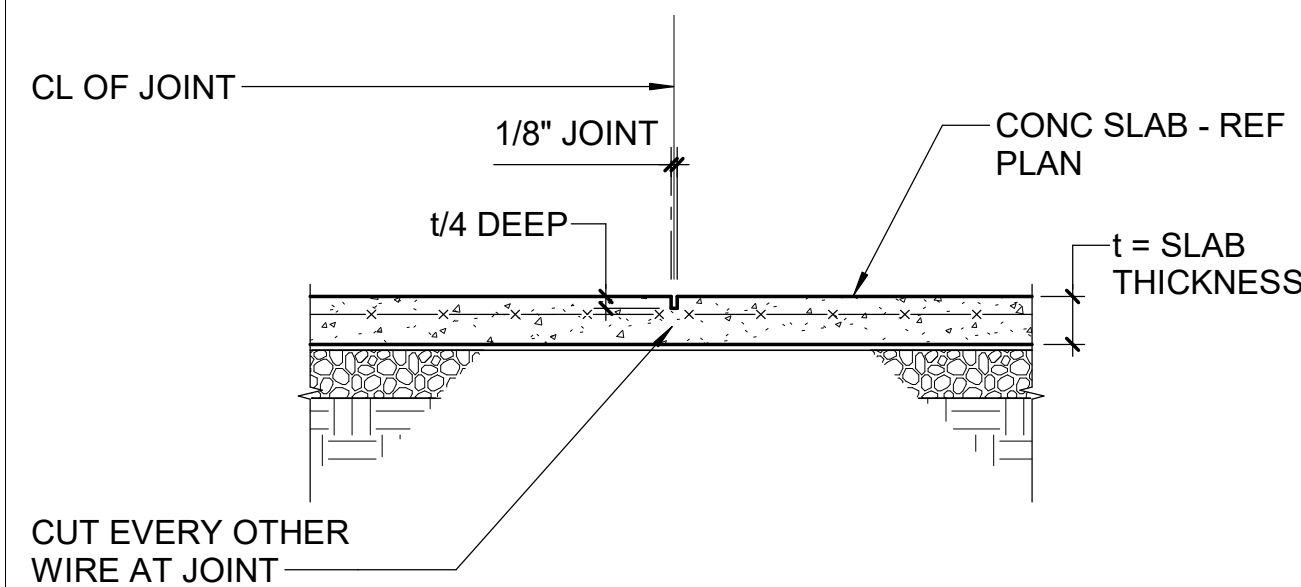
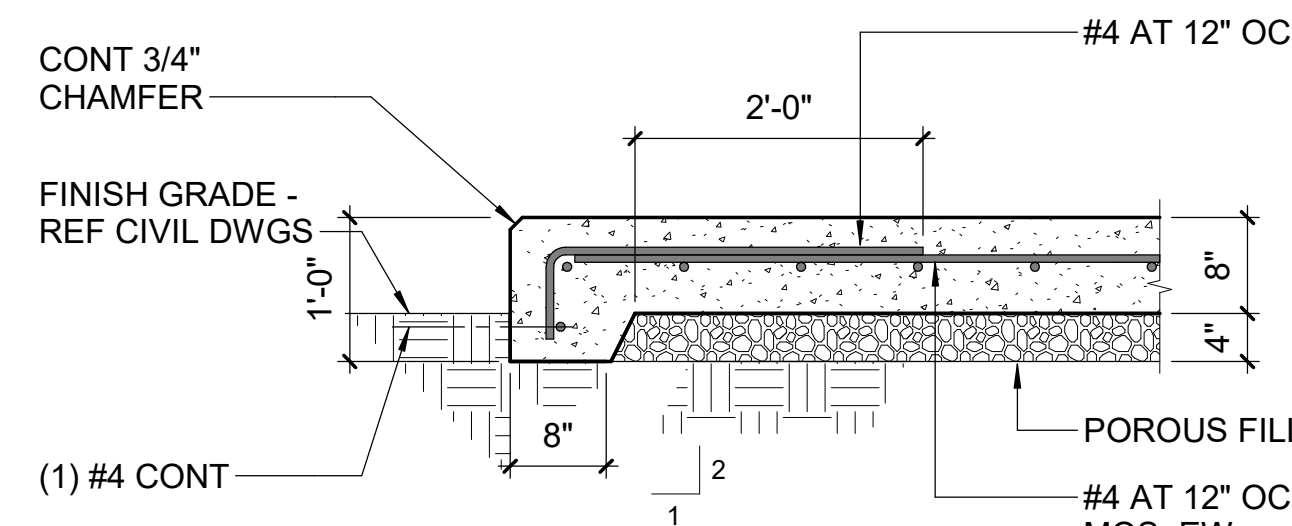
Date 07/27/2026
WS-S501



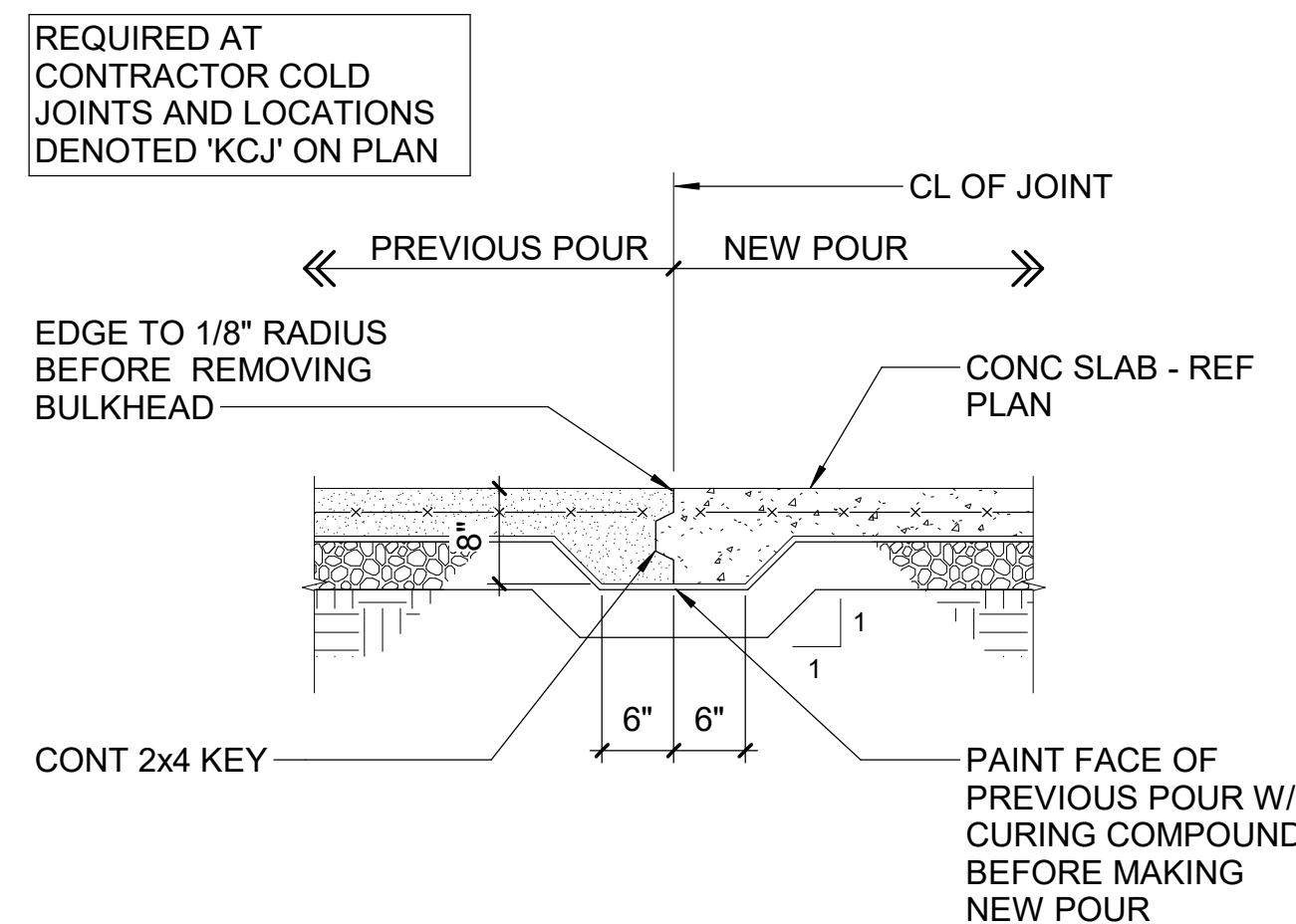
B1 TYPICAL DEPRESSED SLAB DETAILS
NTS



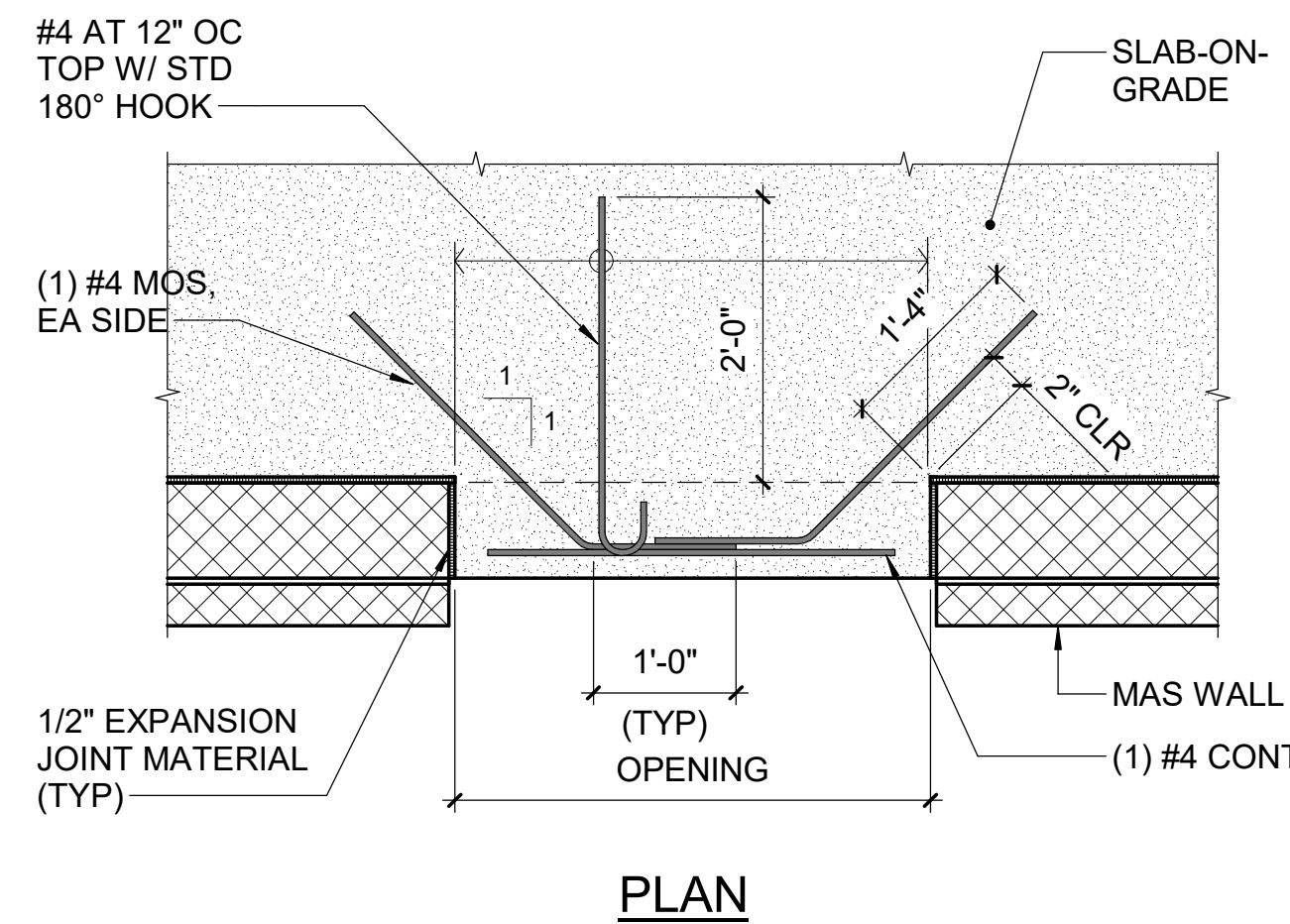
B2 TYPICAL EDGE OF SLAB DETAIL
NTS



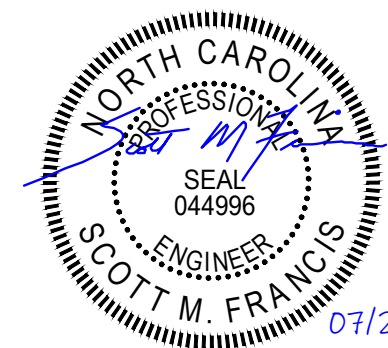
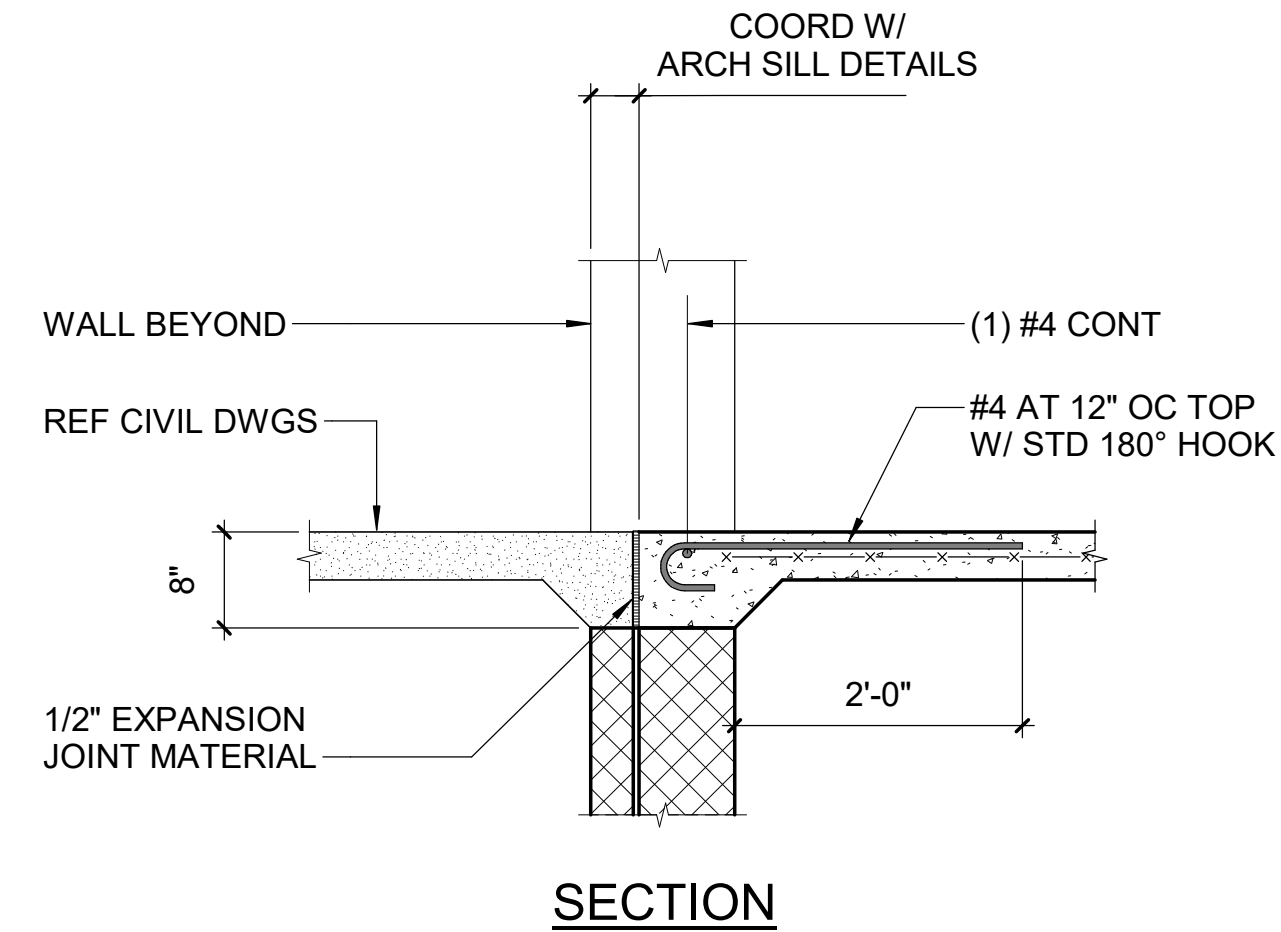
A1 TYPICAL SAWED JOINT DETAIL
NTS



A2 TYPICAL KEYED CONSTRUCTION JOINT DETAIL
NTS



A3 TYPICAL EXTERIOR DOORS / OPENINGS DETAIL
NTS



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TYPICAL DETAILS

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date 07/27/2026

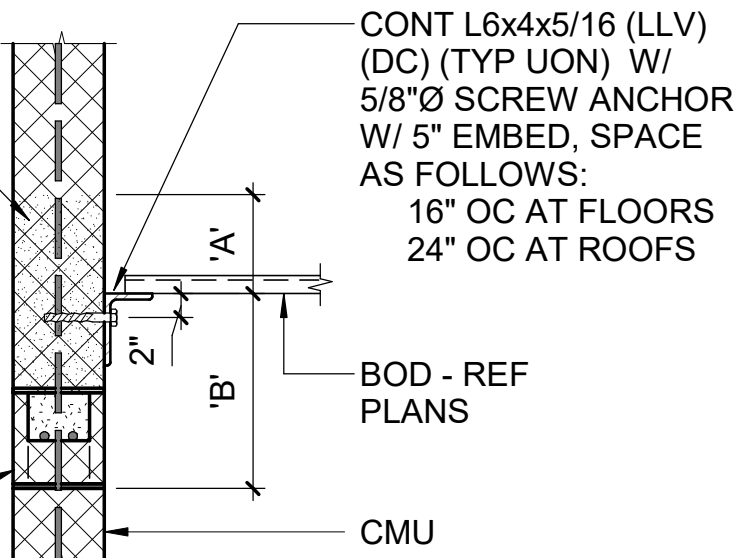
WS-S502

GROUT DIMENSION SCHEDULE		
DIM	FLOOR	ROOF
'A'	14" MIN	8" MIN
'B'	18" MIN	12" MIN

GROUT ALL CELLS SOLID FROM BB TO DIMENSION 'A' ABOVE BOD

8" DEEP CMU BOND BEAM, REINF AS FOLLOWS:
(2) #4 AT 8" CMU
(2) #5 AT 12" CMU
CONTRACTOR MUST BE PERMITTED TO STEP BB WITH ROOF SLOPE - MAINTAIN MIN DIMENSIONS SHOWN

DETAIL APPLIES AT ALL FLOOR AND ROOF EDGE ANGLES PARALLEL TO JOIST/BEAM SPAN



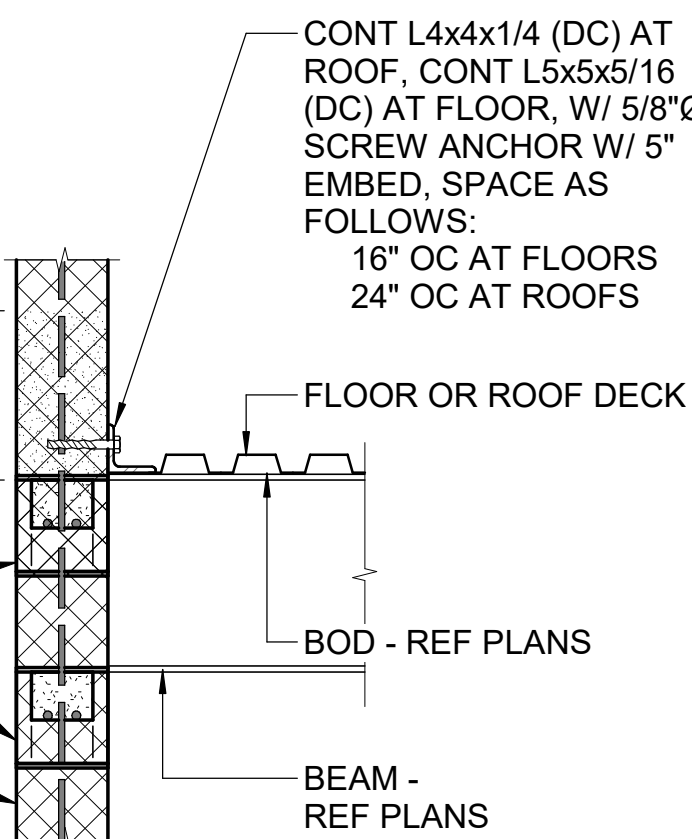
CONT ANGLE (PERP TO DECK)

GROUT ALL CELLS SOLID FROM BOND BEAM TO 16\"/>

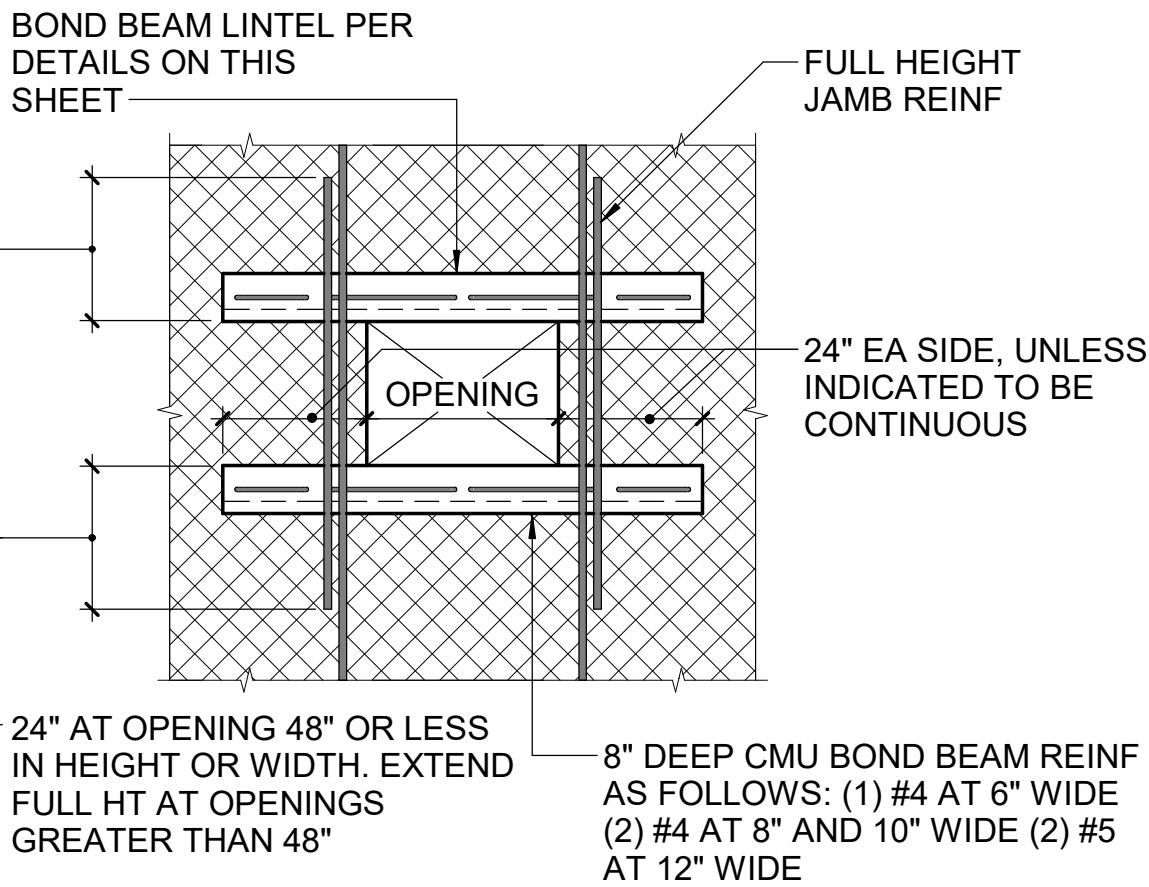
BOND BEAM - REF TYP JOIST / BEAM BRG ON MAS WALL DETAILS

CMU

DETAIL APPLIES AT ALL FLOOR AND ROOF EDGE ANGLES PERPENDICULAR TO JOIST/BEAM SPAN

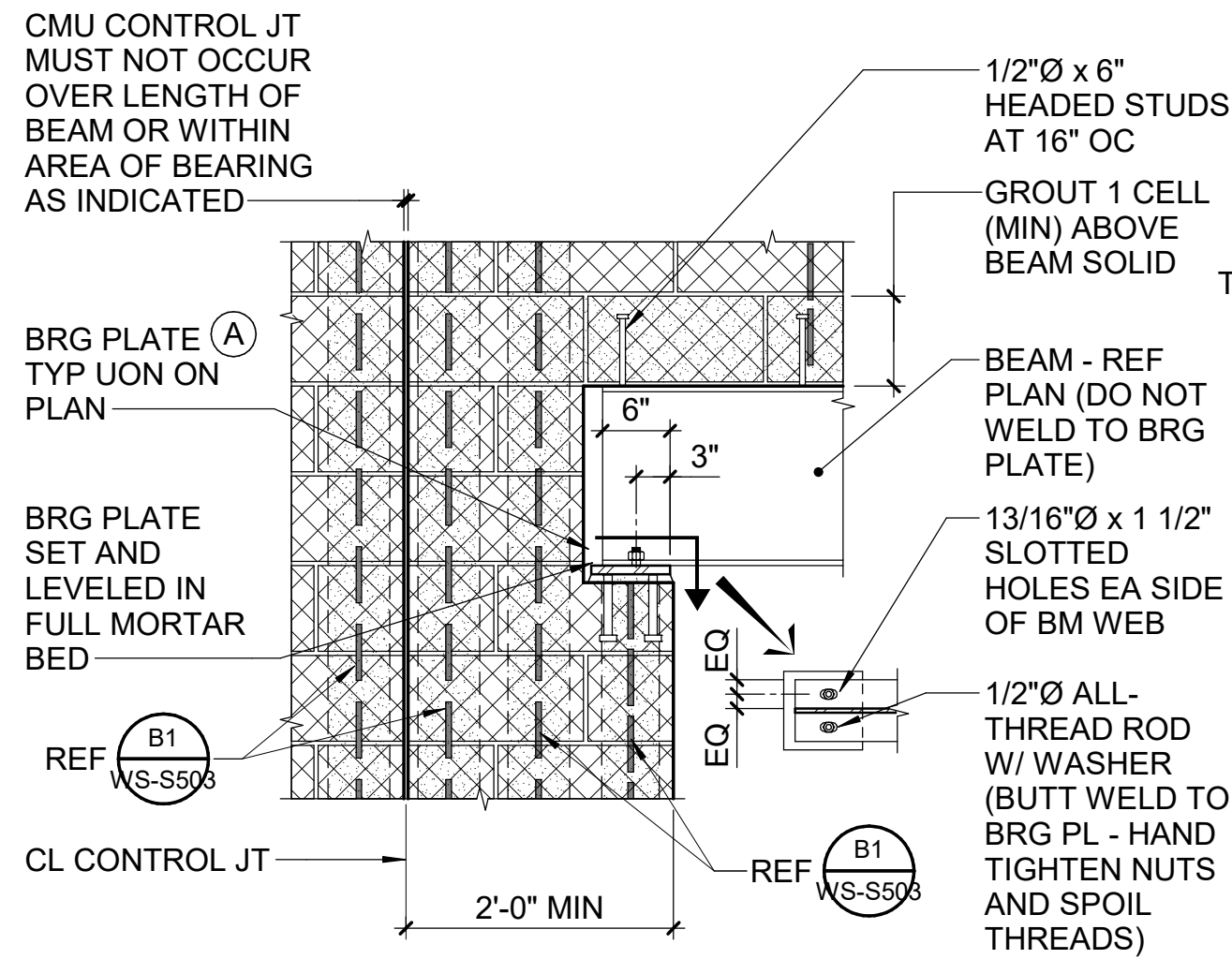


CONT ANGLE (PARALLEL TO DECK)

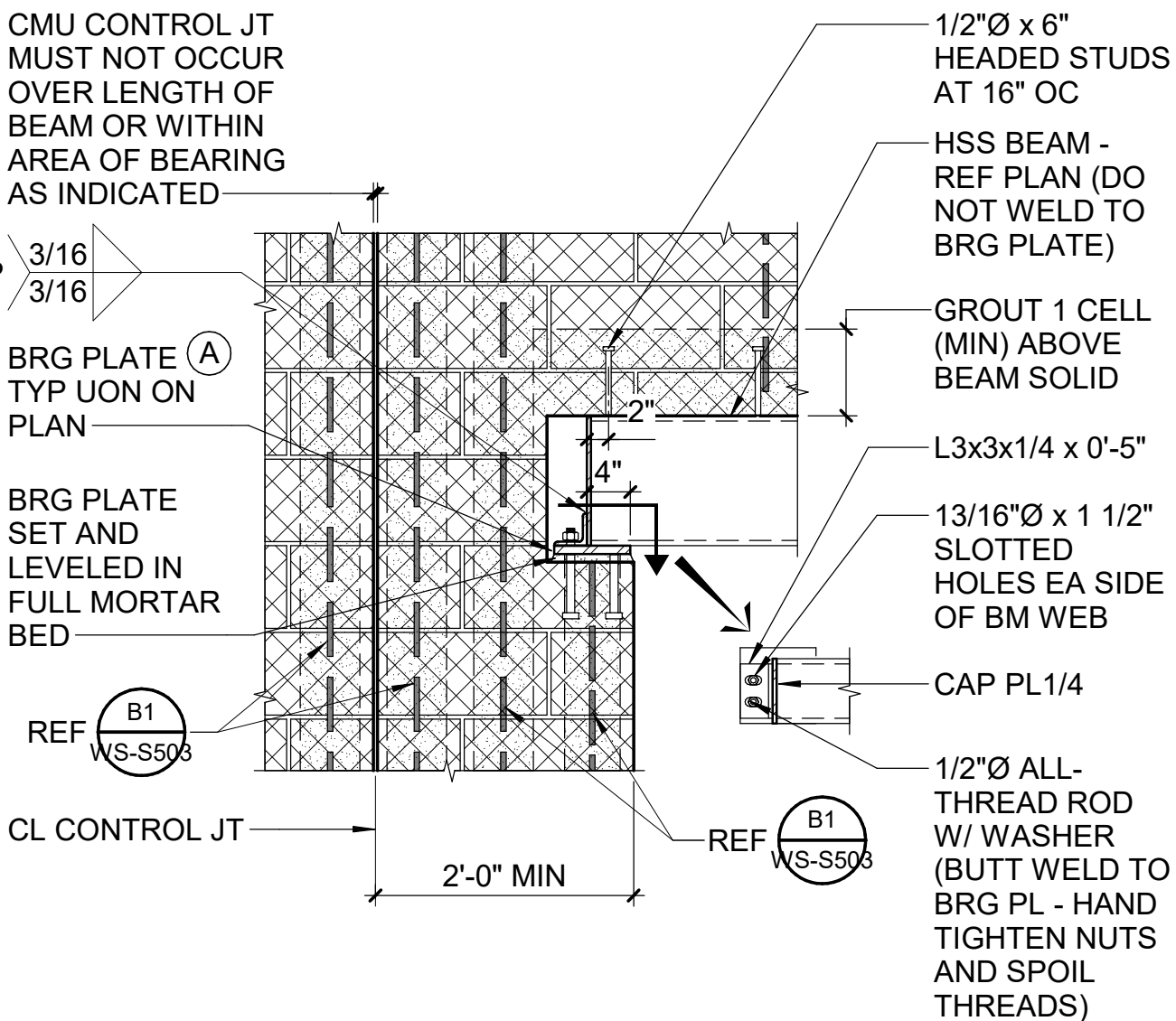


TYPICAL MASONRY REINFORCING AT WALL OPENING DETAIL

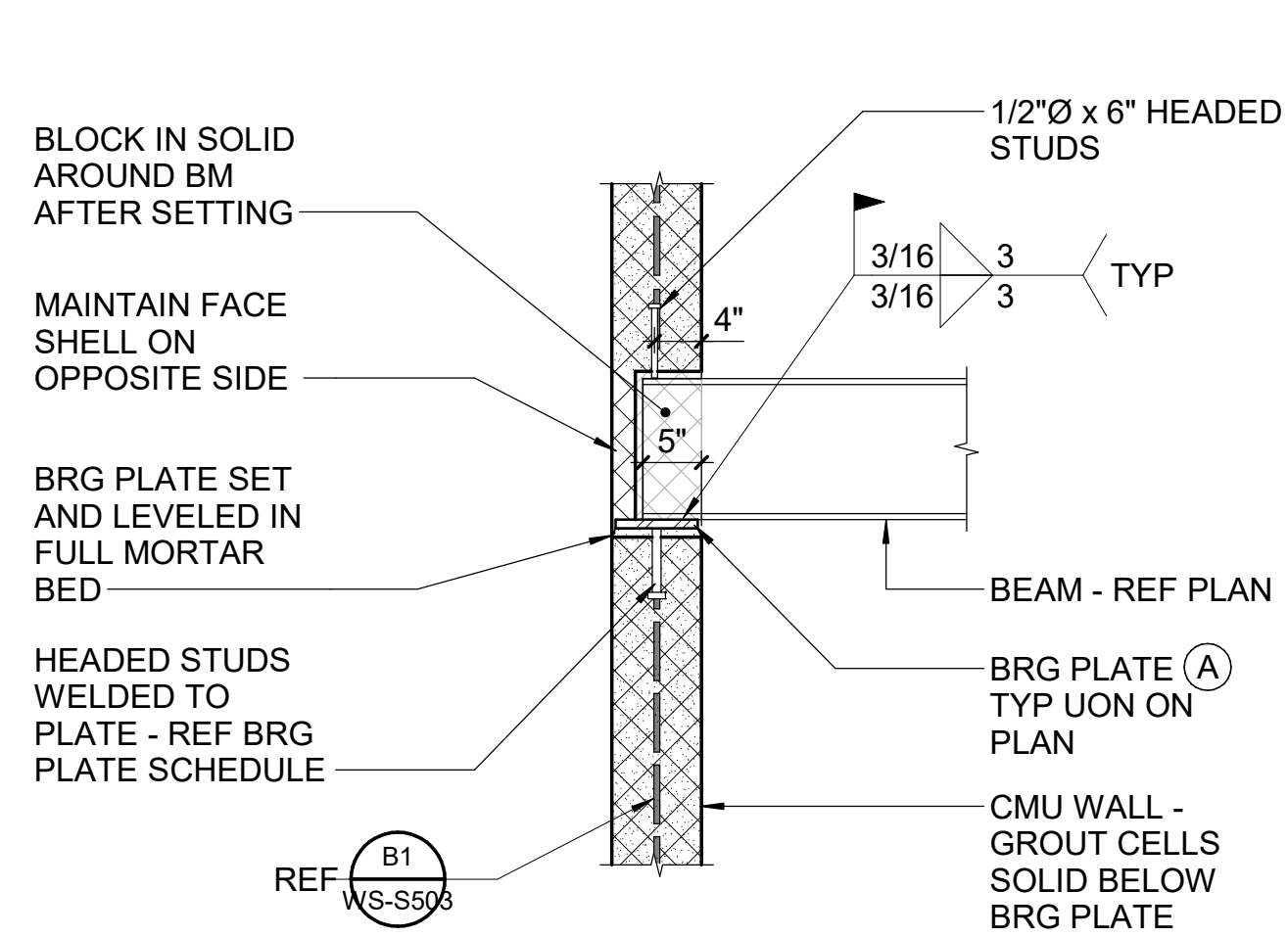
C1 TYPICAL MASONRY ANCHORAGE DETAILS



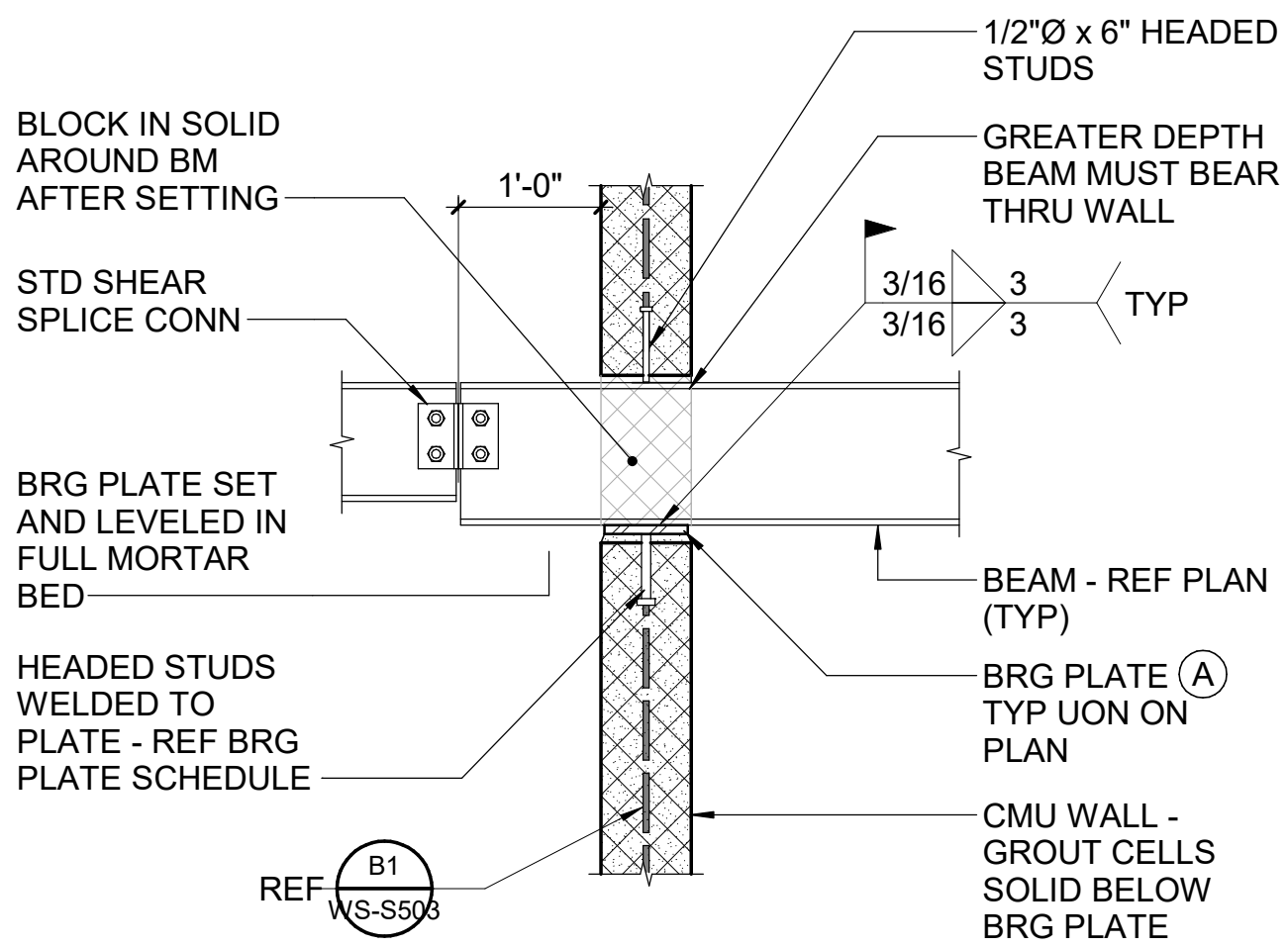
PARALLEL TO WALL ELEVATION (TYPICAL WF)



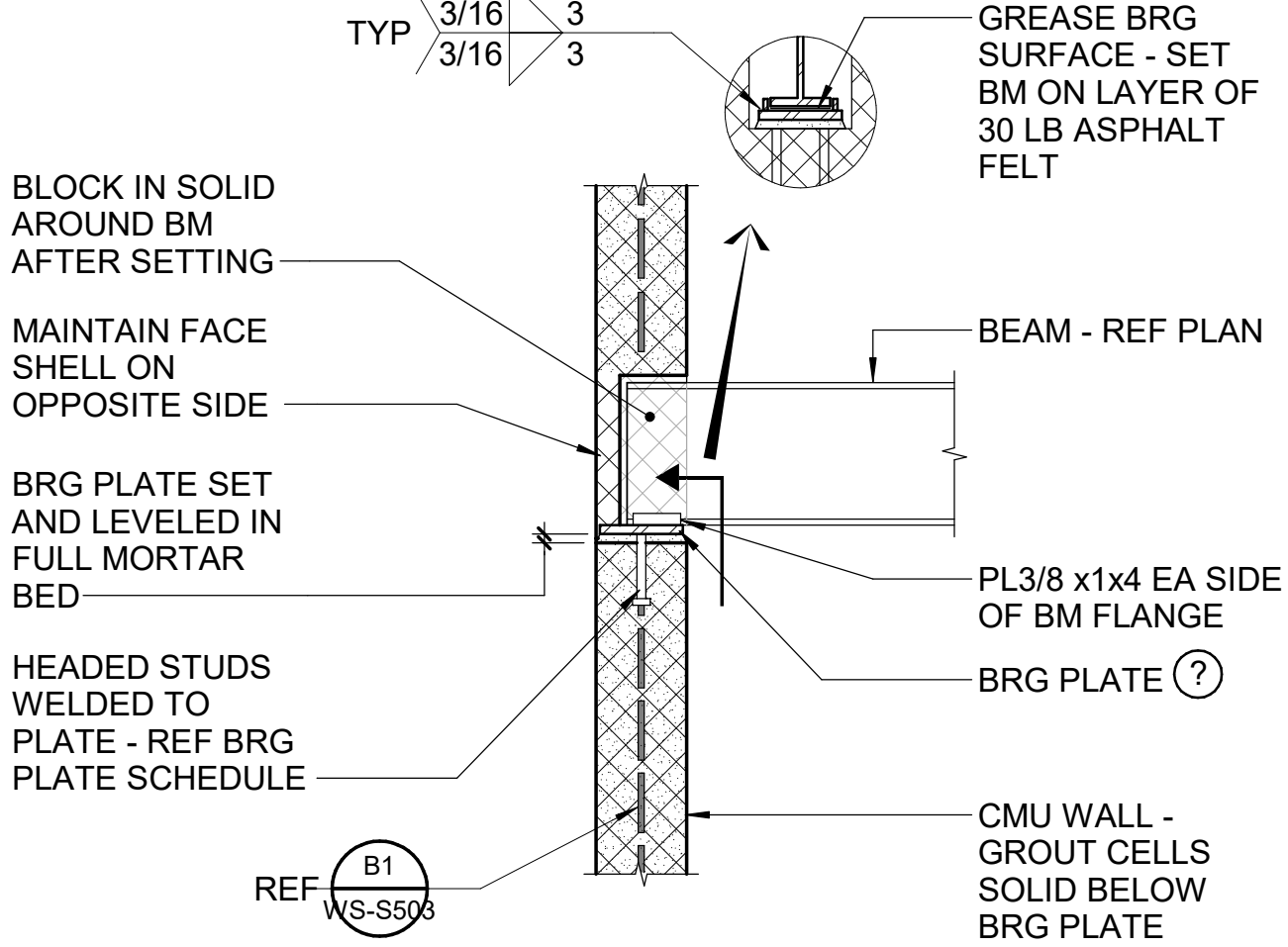
PARALLEL TO WALL ELEVATION (TYPICAL HSS)



PERPENDICULAR TO WALL SECTION (TYPICAL)

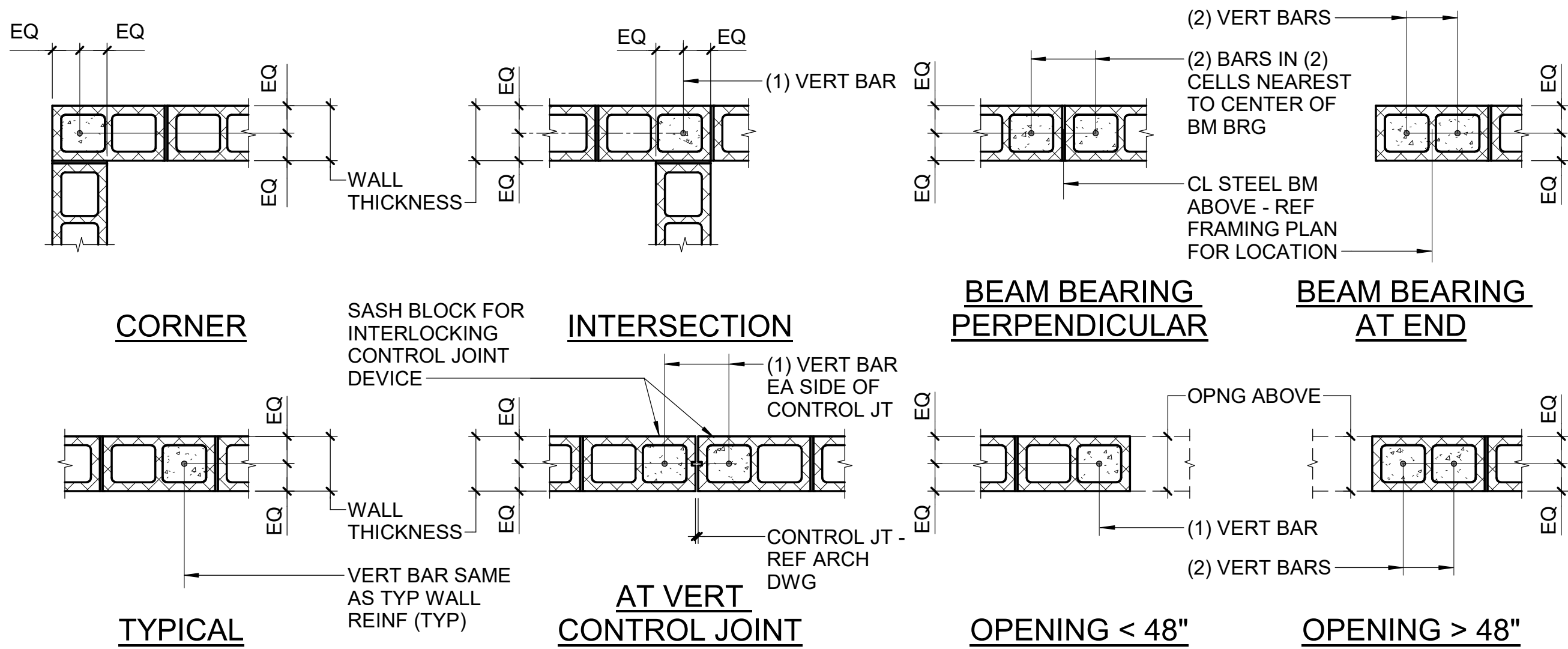


PERPENDICULAR TO WALL SECTION (COMMON BEARING)

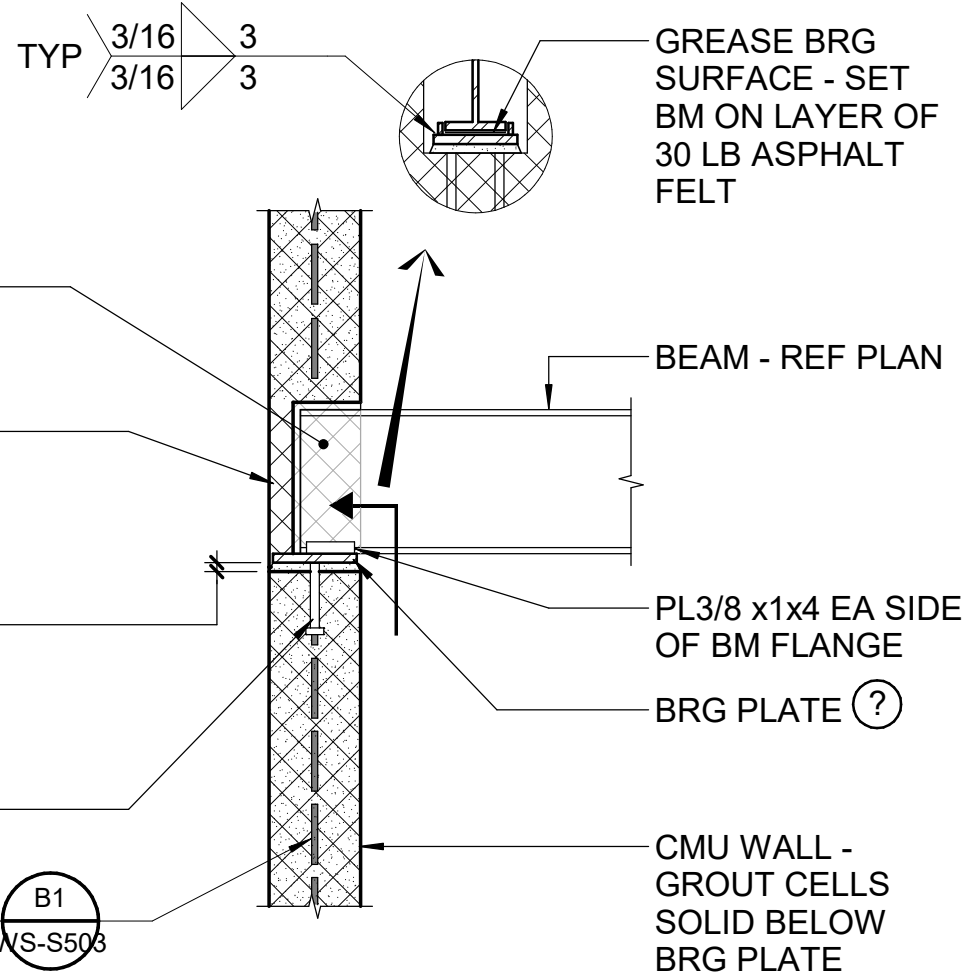


PERPENDICULAR TO WALL SECTION (SLIP CONNECTION)

B1 TYPICAL CONCRETE MASONRY REINFORCING DETAILS

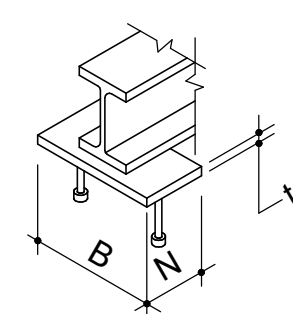


B1 TYPICAL CONCRETE MASONRY REINFORCING DETAILS

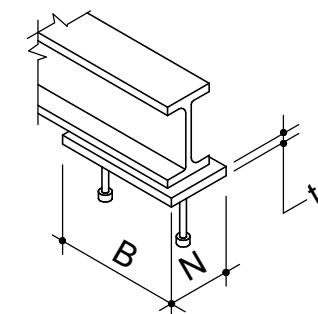


(A) (B) (C) (D) (E) (F)

STEEL BEAM BEARING PLATE SCHEDULE				
MARK	LENGTH (B)	WIDTH (N)	THICKNESS (t)	HEADED STUDS
A	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG
B	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG
C	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG
D	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG
E	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG
F	7"	7"	3/4"	(2) 3/4"Ø x 6" LONG



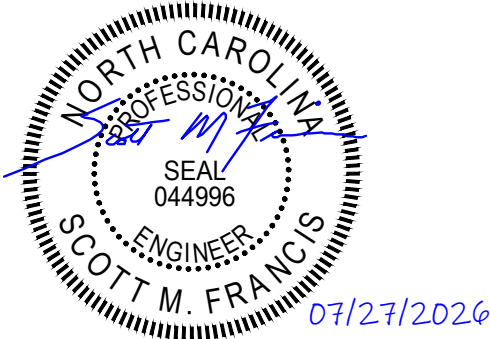
PERP TO WALL

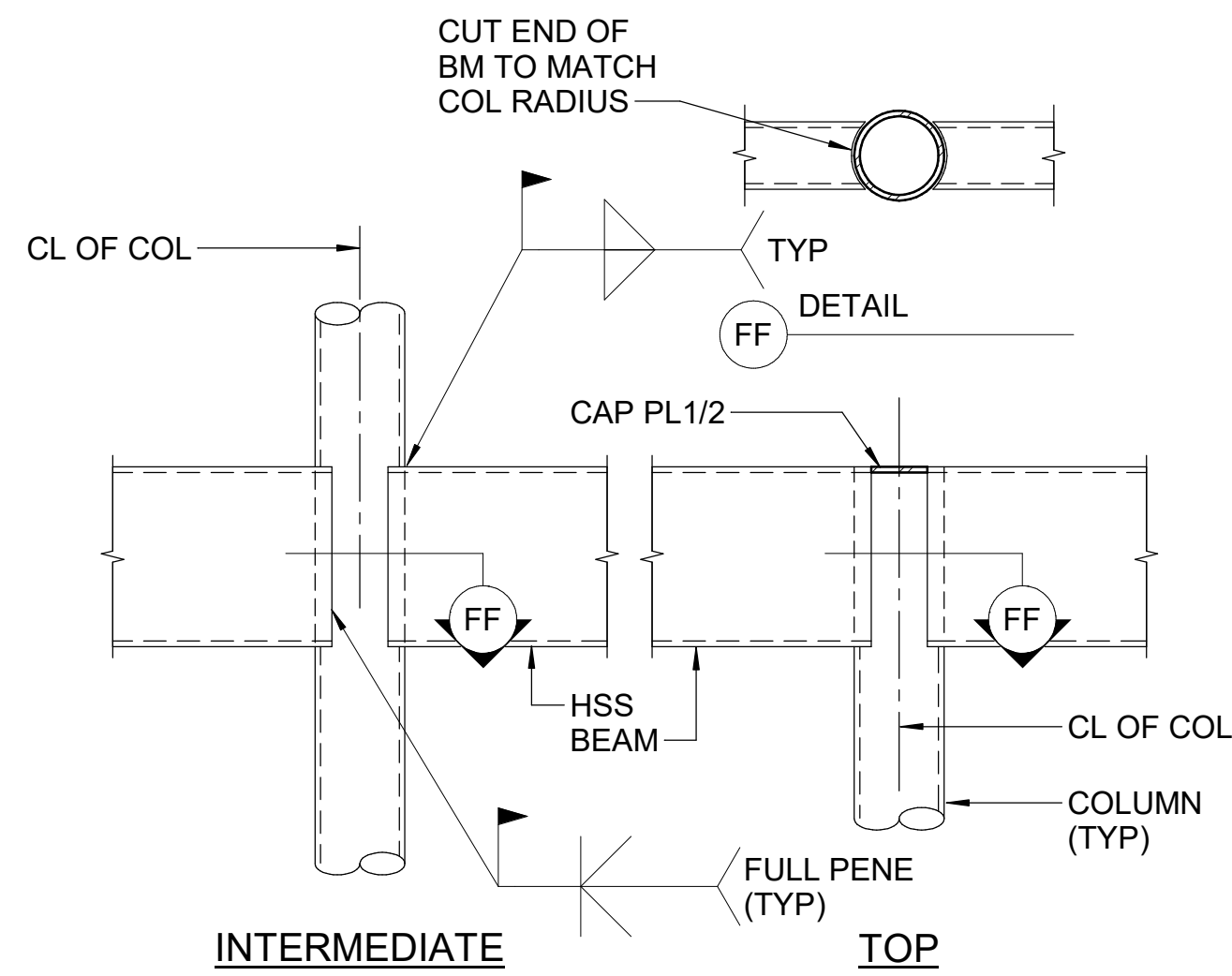


PARALLEL TO WALL

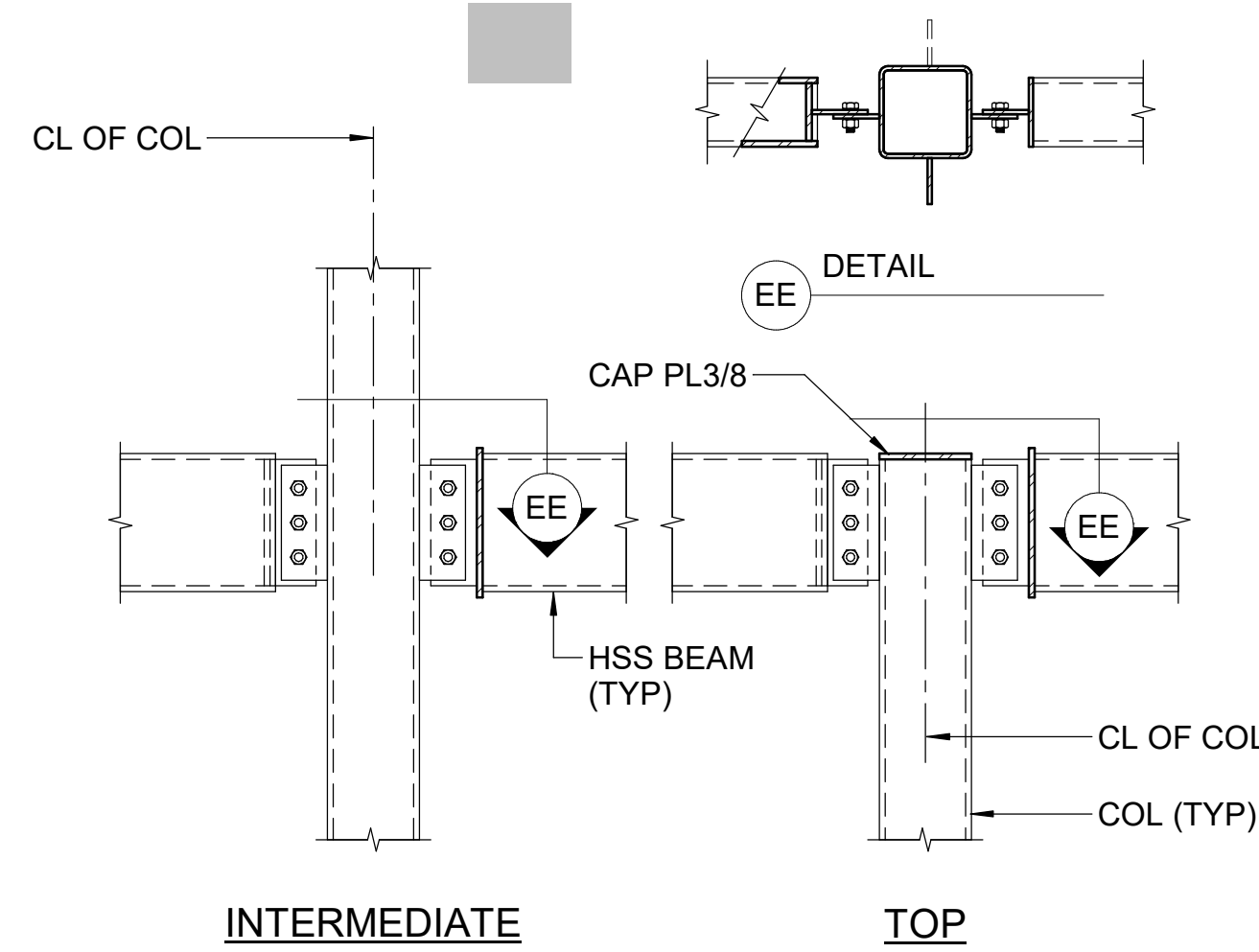
ISOMETRIC VIEW BEARING PLATES

A1 TYPICAL STEEL BEAM BEARING ON MASONRY DETAILS

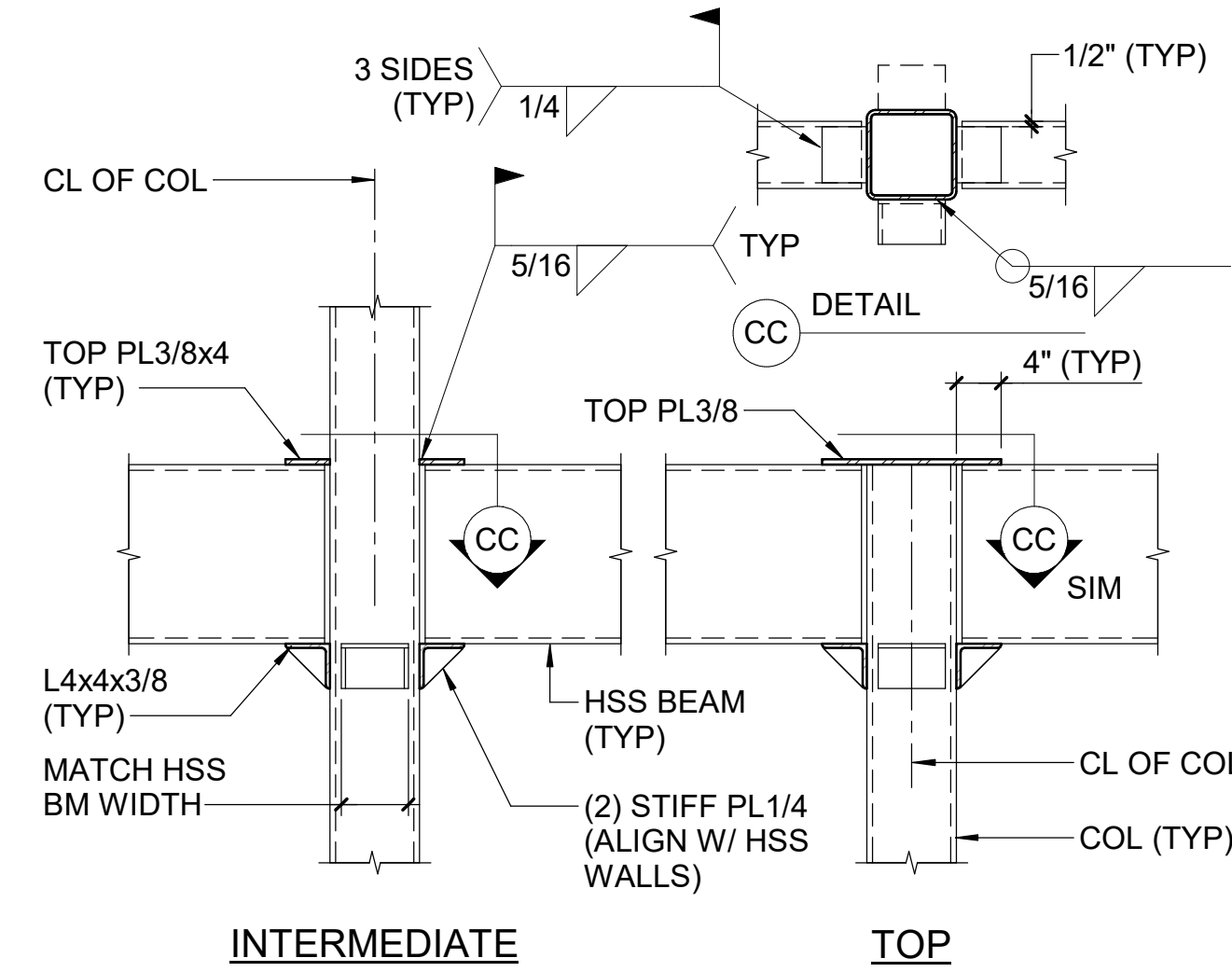




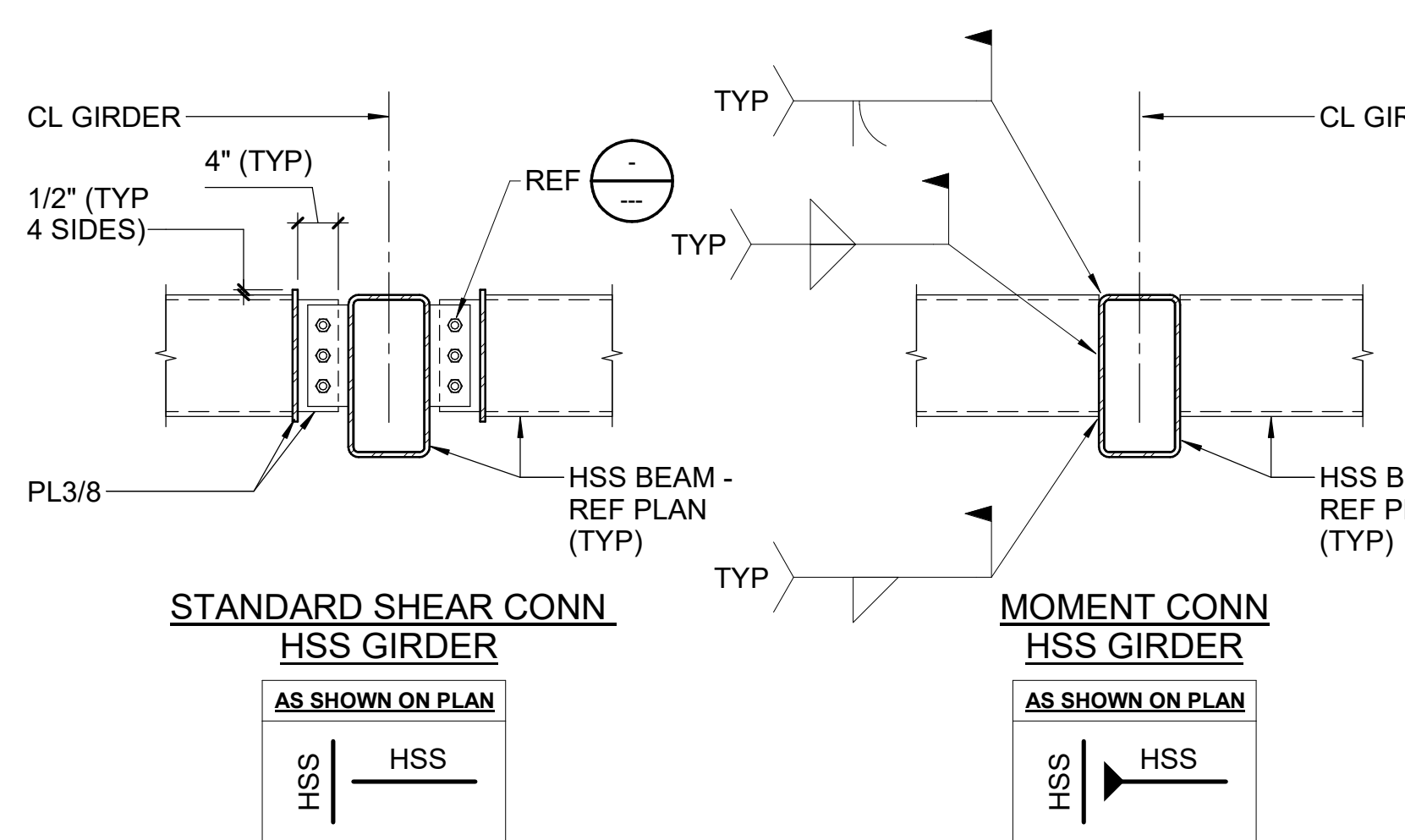
C1 TYPICAL HSS BEAM TO HSS ROUND COLUMN MOMENT CONNECTION DETAILS
NTS



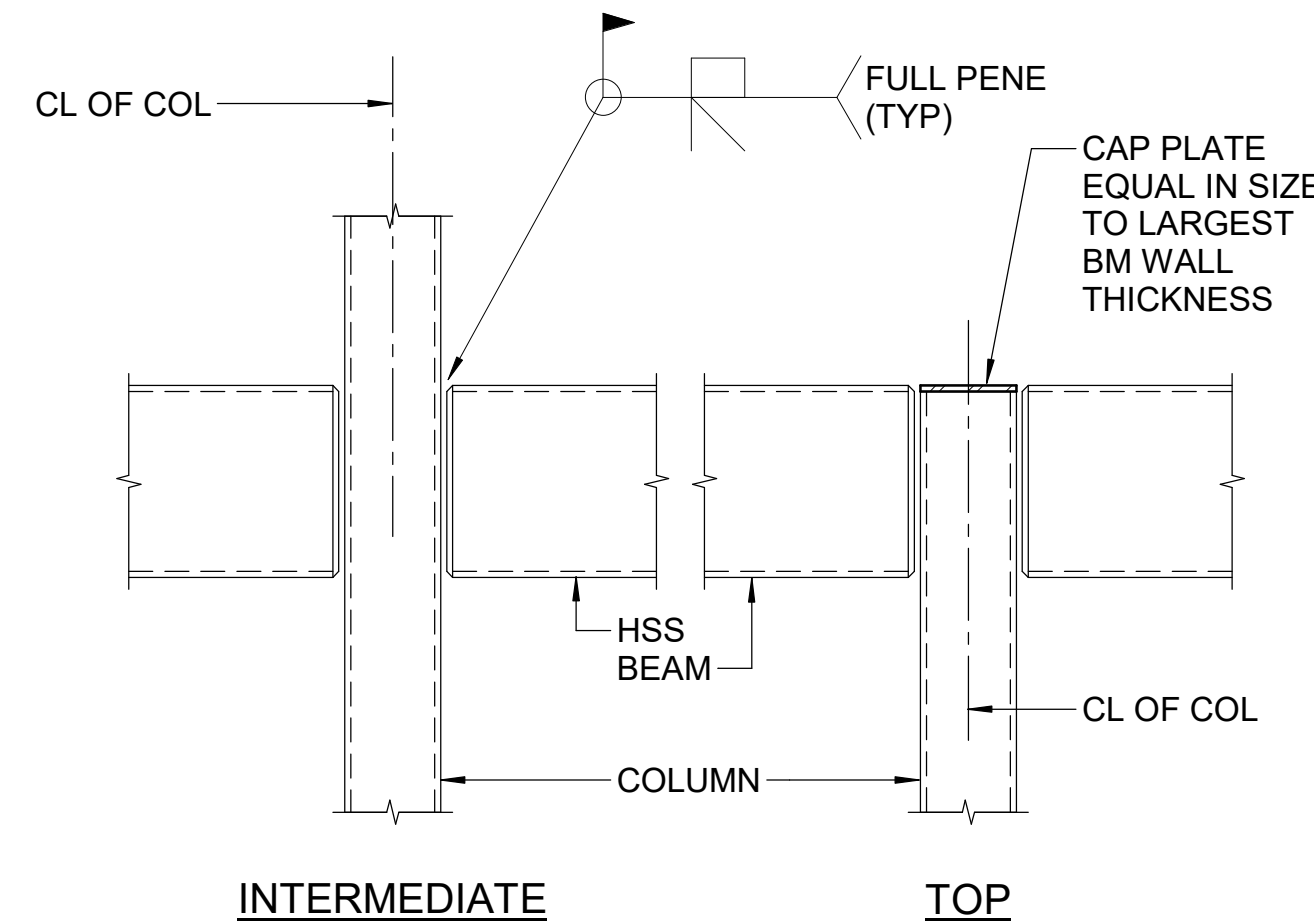
C2 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION DETAILS
NTS



C3 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION DETAILS
NTS



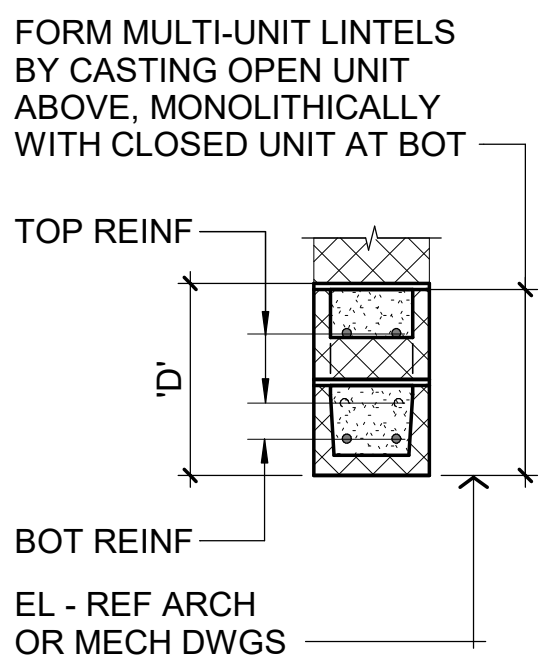
B1 TYPICAL HSS BEAM TO GIRDER CONNECTION DETAILS
NTS



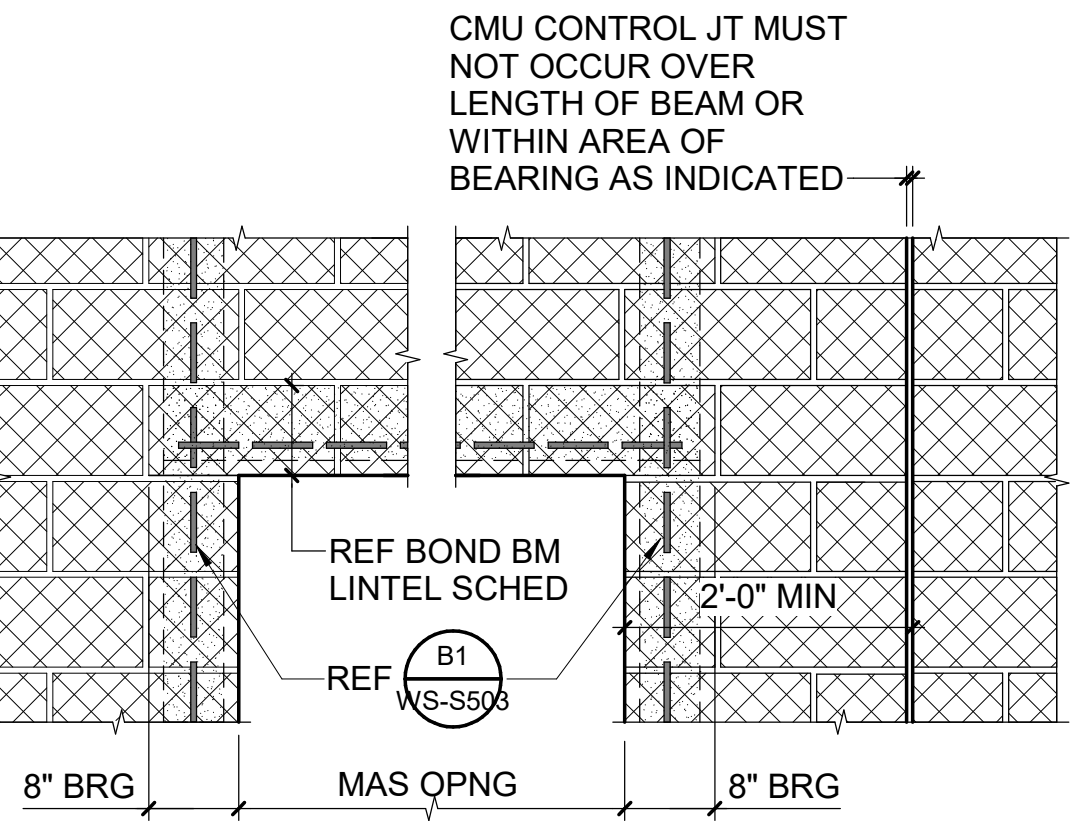
B2 TYPICAL HSS BEAM TO HSS COLUMN MOMENT CONNECTION DETAILS
NTS

BOND BEAM LINTEL SCHEDULE				
CLEAR SPAN	DEPTH 'D'	REINFORCING		
		6" CMU	8" & 10" CMU	12" CMU
0" TO 3'-4"	8"	(1) #4 BOT	(2) #4 BOT	(2) #5 BOT
3'-5" TO 5'-4"	8"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
5'-5" TO 6'-8"	16"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
6'-9" TO 8'-0"	16"	(1) #5 T&B	(2) #5 T&B	(2) #5 T&B

- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
 - SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.

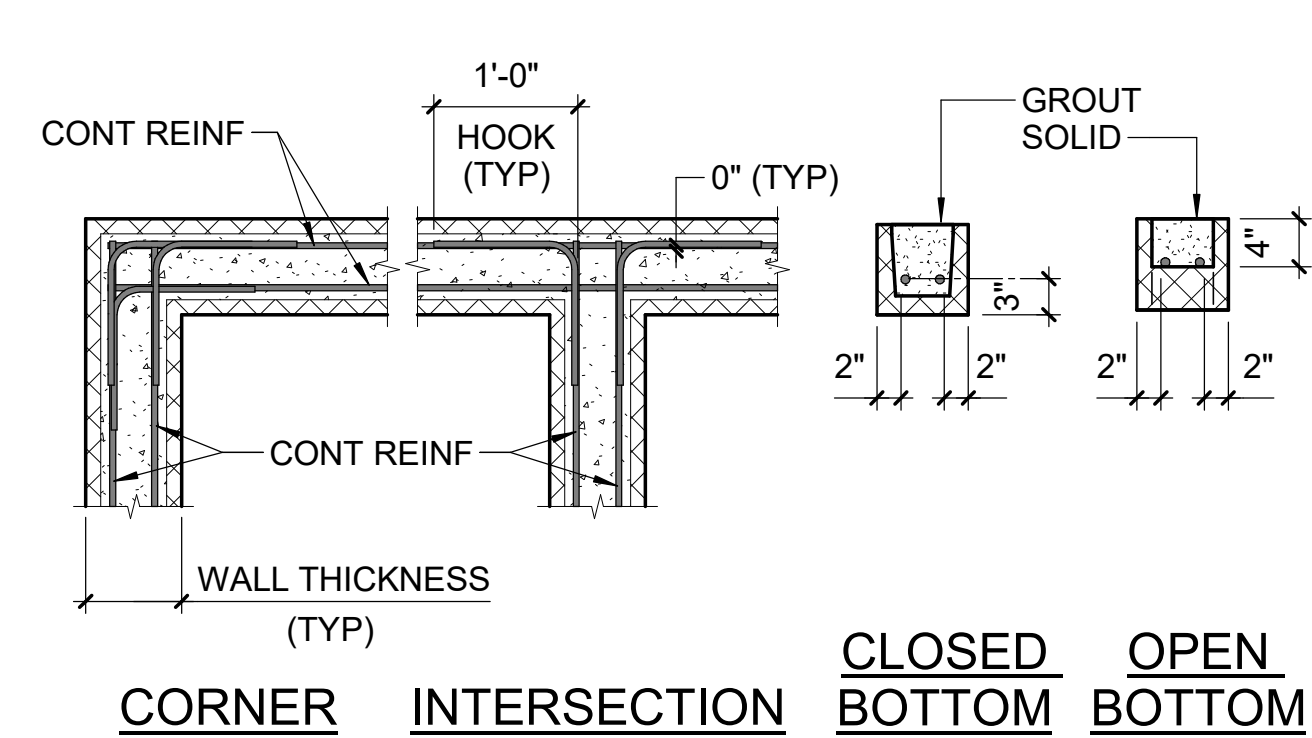


TYPICAL SECTION

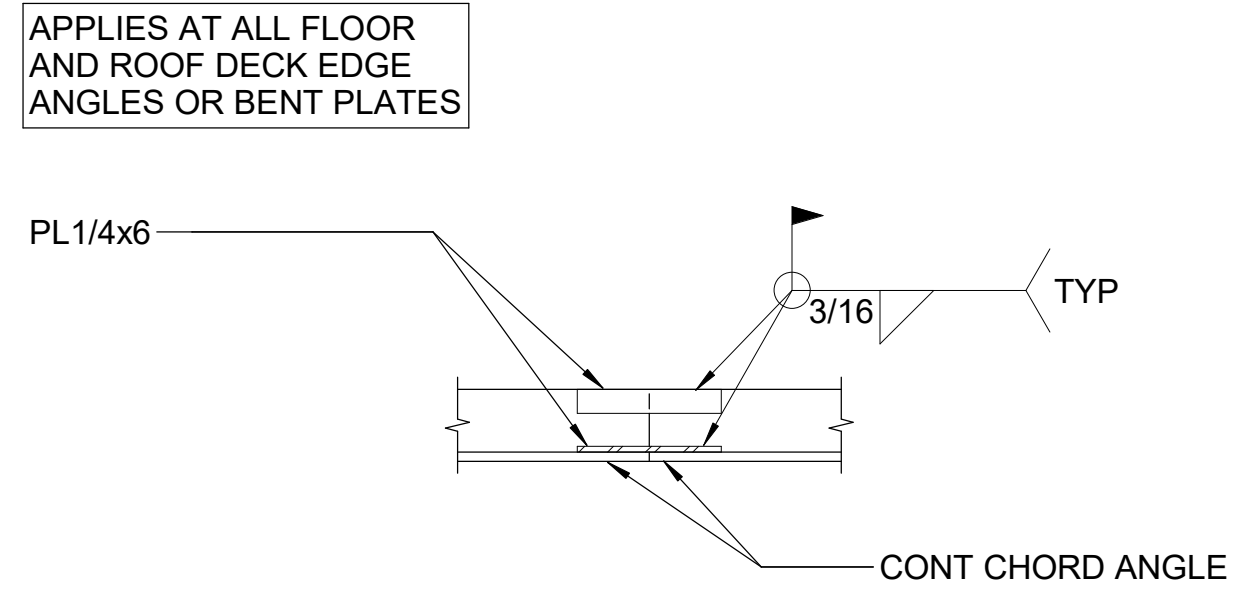


TYPICAL JAMB

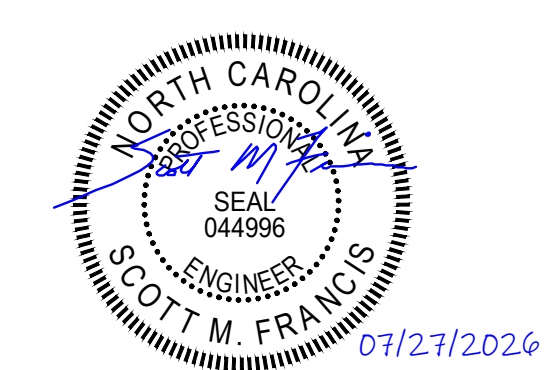
JAMB AT CONTROL JOINT



A2 TYPICAL BOND BEAM REINFORCING DETAILS
NTS



A3 TYPICAL ANGLE DIAPHRAGM CHORD SPLICE DETAIL
NTS



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TYPICAL DETAILS

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date 07/27/2026
WS-S504

General Plan Symbols		
	Plan Revision Number	
	Detail Number on Sheet	
	Sheet Number Where Detail is Placed	
	Keynote Symbol	
	Continuation Symbol	
	Point Where New Connects To Existing	
	Room Name / Number	
	Area Being Demolished	
	Area Not In Contract	

Abbreviations		
Ø	ROUND	LVR LOUVER
ABV	ABOVE	LWT LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A MIXED AIR
AD	AREA DRAIN	MAX MAXIMUM
ADD	ADDENDUM	MBH ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD MOTORIZED DAMPER
ALT	ALTERNATE	MECH MECHANICAL
AP	ACCESS PANEL	MFR MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN MINIMUM
BFF	BELOW FINISHED FLOOR	MISC MISCELLANEOUS
BLW	BELOW	MTR MOTOR
BTU	BRITISH THERMAL UNITS	MU/A MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC NOISE CRITERIA
CAP	CAPACITY	NC NORMALLY CLOSED
CB	CATCH BASIN	NIC NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO NUMBER
CLG	CEILING	NO NORMALLY OPEN
CO	CLEAN OUT	NTS NOT TO SCALE
CW	COLD WATER	O OXYGEN
D	DEGREE	O/A OUTSIDE AIR
DB	DRY BULB	ORD OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD PRESSURE DROP
DN	DOWN	PIV POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG PLUMBING
EA	EACH	PRESS PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG POUNDS PER SQUARE INCH GAUGE
EW	ELECTRIC WATER COOLER	PWR POWER
EWI	ENTERING WATER TEMPERATURE	R DUCT RISER
E/A	EXHAUST AIR	R/A RETURN AIR
EXIST	EXISTING	RCP RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD ROOF DRAIN
FCC	FLOOR CLEAN OUT	REC RECESSED
FD	FLOOR DRAIN	RED REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH RELATIVE HUMIDITY
FL	FLOOR	RLA RELIEF AIR
FO	FUEL OIL	RM ROOM
FOV	FUEL OIL VENT	RPM REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW RAIN WATER
FOS	FUEL OIL SUPPLY	SF SQUARE FOOT
FPM	FEET PER MINUTE	S/A SUPPLY AIR
FS	FLOOR SINK	SAN SANITARY
FT	FOOT/FEET	SF SQUARE FOOT
FTR	FIN TUBE RADIATION	SD SMOKE DAMPER
GAL	GALLON	SM SURFACE MOUNT
GF	GAS-FIRED	SP STANDPIPE
GC	GENERAL CONTRACTOR	SP STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM STEAM
GW	GREASE WASTE	T THERMOSTAT
HB	HOSE BIB	TD TEMPERATURE DROP
HP	HORSE POWER	TDR TRENCH DRAIN
HTG	HEATING	TEMP TEMPERATURE
HTR	HEATER	TYP TYPICAL
HW	HOT WATER	UG UNDERGROUND
HYD	HYDRANT	VAC VACUUM
ID	INDIRECT	V VENT
IN	INCH	VAV VARIABLE AIR VOLUME
INV	INVERT	VENT VENTILATION
LB	POUND	VTR VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W WASTE
LAT	LEAVING AIR TEMPERATURE	WB WET BULB
LP	LOW PRESSURE	WCO WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH WALL HYDRANT

Equipment Abbreviations			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EW	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FAN	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols	
	Nominal Pipe Size
	Above Ground Piping
	Below Ground Piping
	Pipe Slope (When Applicable)
	Existing Pipe To Remain
	Pipe To Be Demolished
	Domestic Cold-Water
	Non-Potable Water
	Soft Cold-Water
	Filtered Cold-Water
	Reverse Osmosis Water
	Domestic Hot-Water
	Domestic Hot-Water 140°
	Hot-Water Recirculation
	Hot-Water Recirculation 140°
	Sanitary Drain
	Sanitary Vent
	Sanitary Wet Vent
	Combination DWV
	Condensate Drain
	Indirect Drain
	Grease Waste
	Grease Vent
	Oil Waste
	Oil Vent
	Pump Discharge
	Solar Water Return
	Solar Water Supply
	Storm Drain
	Storm Overflow
	Compressed Air
	Natural Gas
	Liquid Propane
	Pipe Rise / Drop

	4" FCO
	2" BACKWATER
	2" CHECK
	2" CHECK
	2" BALANCE
	2" CIRC
	2" GATE
	2" QUICK
	2" S/O
	2" STRAIN
	1" GAS-CNTRL
	1" PLUG
	1" GAS COCK
	1" REG
	1" T/V
	PRIMER
	2" M-CNTRL
	TMV-XTP
	TMVEM
	2" PRV
	2" METER
	1 1/2" METER
	Double Check Valve
	Reduced Pressure Zone

Plumbing Fixture Notes	
	Floor Drain
	Design Size
	Identity Type
	Drainage Fixture Units
	Floor Drain w/ Deep Seal Trap
	Floor Drain w/ Trap Primer
	"P" Indicates Primer Connection
	Floor Drain w/ Integral Cleanout
	Area Drain (No Trap)
	Deck Drain
	Hub Drain (Funnel Type)
	Floor Sink
	Roof Drain
	Combination Drain
	Rainfall Surface Area

- Plumbing General Notes**
- A PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE.
- B PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- C FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
- D ROUTE DOMESTIC WATER, SANITARY SEWER AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
- E WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
- F PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

- Plumbing Notes**
- 1 BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
- 2 THESE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- 3 THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
- 4 ALL VENTS THRU ROOF SHALL BE MINIMUM OF TEN FEET FROM ANY FRESH AIR INTAKES. CLEANOUTS SHALL BE INSTALLED PER CODE REQUIREMENTS.
- 5 PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN STATE. FIRE MARSHALL STANDARD 43-1, AND SHALL BE U.L. LISTED.
- 7 COORDINATE WITH ELECTRICAL SECTION PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGE AT EQUIPMENT LOCATIONS.
- 8 ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- 9 HANDICAPPED USE PLUMBING FIXTURES SHALL BE MOUNTED AT REQUIRED HEIGHTS AND WITH ALL RELATED ACCESSORIES AS REQUIRED BY THE ADMINISTRATIVE AUTHORITIES.
- 10 ALL HOSE BIBBS SHALL HAVE AN APPROVED VACUUM BREAKER.
- 11 PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.
- 12 UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOTCHED OR WELDED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- 13 WATER SUPPLY PIPING BELOW GRADE UNDER CONCRETE SLABS SHALL BE INSTALLED SUCH THAT NO JOINTS ARE LOCATED BENEATH THE SLAB. WHERE NECESSARY, PROVIDE OFFSETS UP IN FINISHED WALL OR SIMILAR TO ACCOMMODATE JOINTS. PROVIDE LOCKING ACCESS PANEL UNLESS DIRECTED OTHERWISE. COORDINATE FINISH WITH ARCHITECT.
- 14.1 WATER CLOSET = 1.28 GPF MAX
- 14.2 URINAL = 0.125 GPF MAX
- 14.3 SHOWERHEAD = 1.8 GPM MAX
- 14.4 LAVATORY FAUCETS = 0.5 GPM MAX
- 14.5 SINK FAUCETS = 1.8 GPM MAX
- 15 HANGERS, CLAMPS AND GUIDES FURNISHED FOR SUPPORT OF NON-METALLIC PIPES SHALL BE PADDED WITH 1/8" THICK RUBBER, NEOPRENE, OR SOFT RESILIENT CLOTH.
- 16 COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS TO ENSURE PROPER CLEARANCE ABOVE ELECTRICAL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, AND MOTOR CONTROL CENTERS WHERE REQUIRED BY CALIFORNIA ELECTRICAL CODE SECTION 110.26(E)(1) AND TO PROVIDE DRIP PANS OVER ELECTRICAL SERVICE EQUIPMENT, SWITCH GEAR, AND INDUSTRIAL CONTROL ASSEMBLIES WHERE REQUIRED BY CALIFORNIA ELECTRICAL CODE SECTION 110.34(F).

- Project Requirements**
- A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
- B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
- C LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- D PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
- E PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- F MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
- G REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
- H PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- I FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
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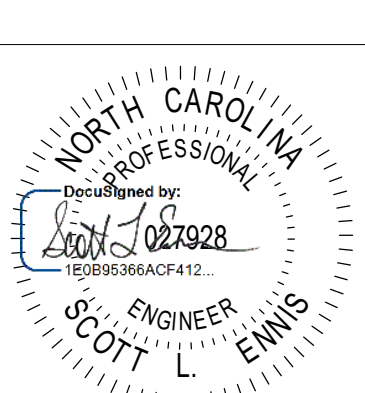
PLUMBING FIXTURE SCHEDULE							
MARK	ITEM	DESCRIPTION	C.W.	H.W.	WASTE	VENT	REMARKS
CO-1	FLOOR CLEANOUT	CAST IRON FLOOR CLEANOUT WITH ANCHOR FLANGE, STAINLESS STEEL ACCESS COVER AND PLUG ASSEMBLY WITH PRIMARY GASKET SEAL.	-	-	-	-	
EW-1	ELECTRIC WATER COOLER	WALL MOUNTED, 8 GPH CAPACITY WITH BOTTLE FILLER, FILTERED, REFRIGERATED AND FREEZE RESISTANT, STAINLESS STEEL TOP, ADA COMPLIANT.	1/2"		1 1/2"	1 1/2"	
EW-2	ELECTRIC WATER COOLER	COMBINED BOTTLE FILLER AND SINGLE UNIT DRINKING FOUNTAIN, WALL MOUNTED, VANDAL RESISTANT BUBBLER, FREEZE RESISTANT, STAINLESS STEEL, FILTERLESS, NON-REFRIGERATED, ADA COMPLIANT. SINK SHALL BE WINTERIZED BY DRAINING SUPPLY LINES. COVER SINK TO PROTECT FROM ELEMENT DUE TO COLD CONDITIONS. WASTE PIPING SHALL BE DRAINED.	1/2"	-	1 1/2"	1 1/2"	WATER SUPPLY PIPING TO BE HEAT TRACED PROVIDE WITH DRAIN VALVE FOR WINTERIZING
EW-1	ELECTRIC WATER HEATER	ELECTRIC WATER HEATER, 30 GAL. STORAGE CAPACITY, 4.5 KW, 208V / 3 PHASE, 25 GPH @ 100 DEGREES RISE. MAXIMUM SET POINT IS 110 DEGREES.	3/4"	3/4"	-	-	WATER SOURCE HEAT PUMP
EXP-1	EXPANSION TANK	EXPANSION TANK, IN-LINE DESIGN WITH 3/4" CONNECTION, DRAWN-STEEL TANK, BUTYL DIAPHRAGM, FIELD ADJUSTABLE 40 PSI AIR CHARGE, 1.96 GAL. CAPACITY.	3/4"	-	-	-	
FD-1	FLOOR DRAIN	CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, HEAVY DUTY STAINLESS STEEL STRAINER, AND MEMBRANE CLAMP.	-	-	4"	2"	
HB-1	HOSE BIBB	AUTOMATIC DRAINING WITHIN TAMPER RESISTANT BRASS BOX, WALL CLAMP, AND BACKFLOW PROTECTED.	3/4"		-	-	
LAV-1	LAVATORY (ADA)	WALL MOUNTED, VITREOUS CHINA, FRONT OVERFLOW, PROVIDE P-TRAP, SUPPLIES, GRID STRAINER AND SEAMLESS PIPING INSULATORS. PROVIDE & INSTALL SENSOR ACTIVATED BATTERY OPERATED FAUCET, 0.5 GPM, ADA COMPLIANT.	1/2"	1/2"	1 1/2"	1 1/2"	MOUNT 34" TO RIM.
MS-1	MOP SINK	TERRAZZO FLOOR MOUNTED MOP RECEPTOR, 24" X 24" X 12", INSTALL WITH SUPPLIES, HOSE CLAMP, MOP HANGER, CHROME STRAINER AND FAUCET WITH INTEGRAL VACUUM BREAKER, DOUBLE STOPS AND BUCKET HOOK WITH WALL BRACE, 2.2 GPM.	1/2"	1/2"	3"	2"	
WC-1	WATER CLOSET (ADA)	FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, GRAVITY FED, PROVIDE WITH SENSOR ACTIVATED BATTERY OPERATED FLUSH VALVE, SUPPLIES AND OPEN SEAT, 1.28 GPF, ADA COMPLIANT.	1"	-	4"	2"	
WH-1	WALL HYDRANT	CAST BRASS BOXED WALL MOUNTED HYDRANT, NON FREEZE, AUTOMATIC DRAINING, DUAL CHECK BACK FLOW PROTECTED AND SUPPLIED WITH OPERATING KEY.	3/4"	-	-	-	

WEST PARCEL PLUMBING SHEET INDEX	
WS-P001	COVER SHEET
WS-P101	PLANS
WS-P701	DETAILS

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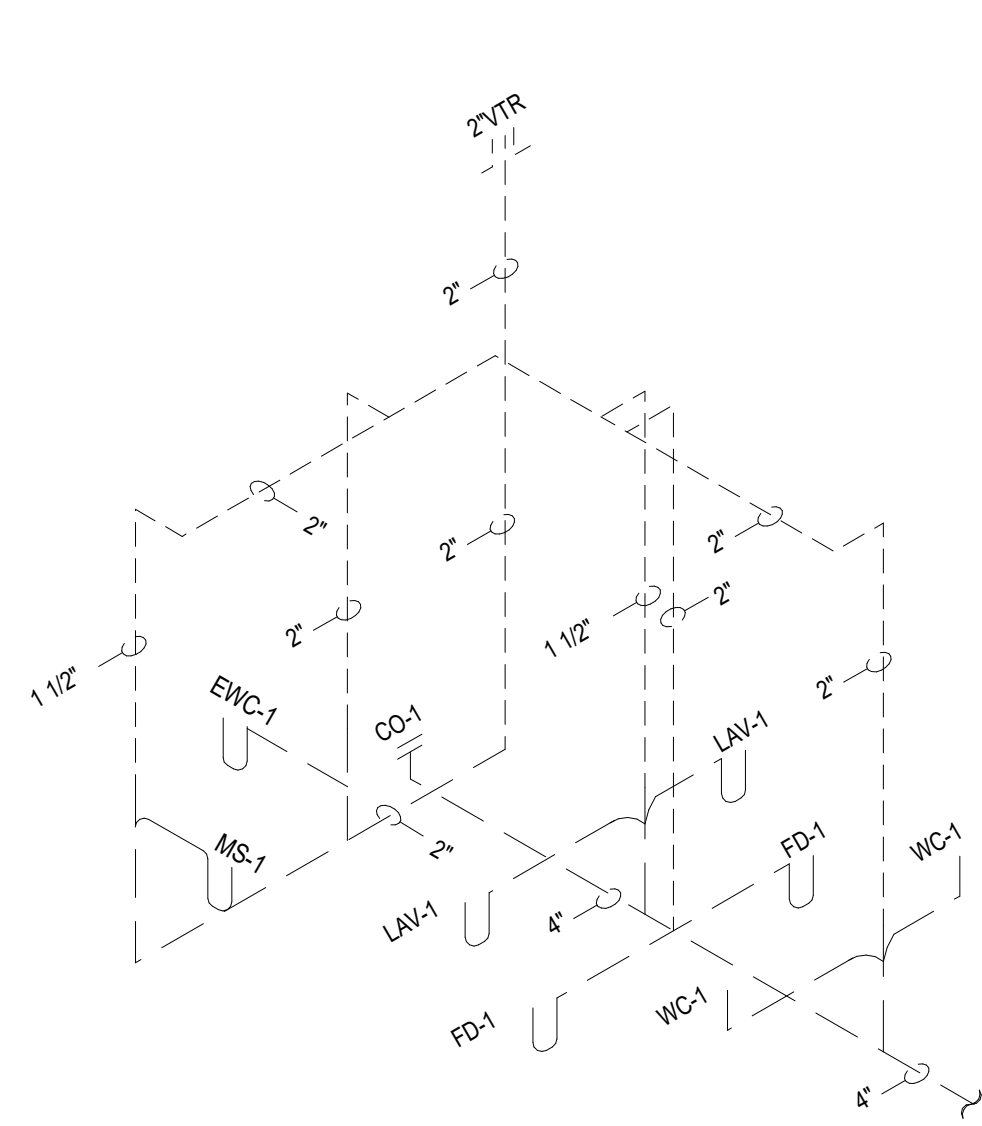
COVER SHEET



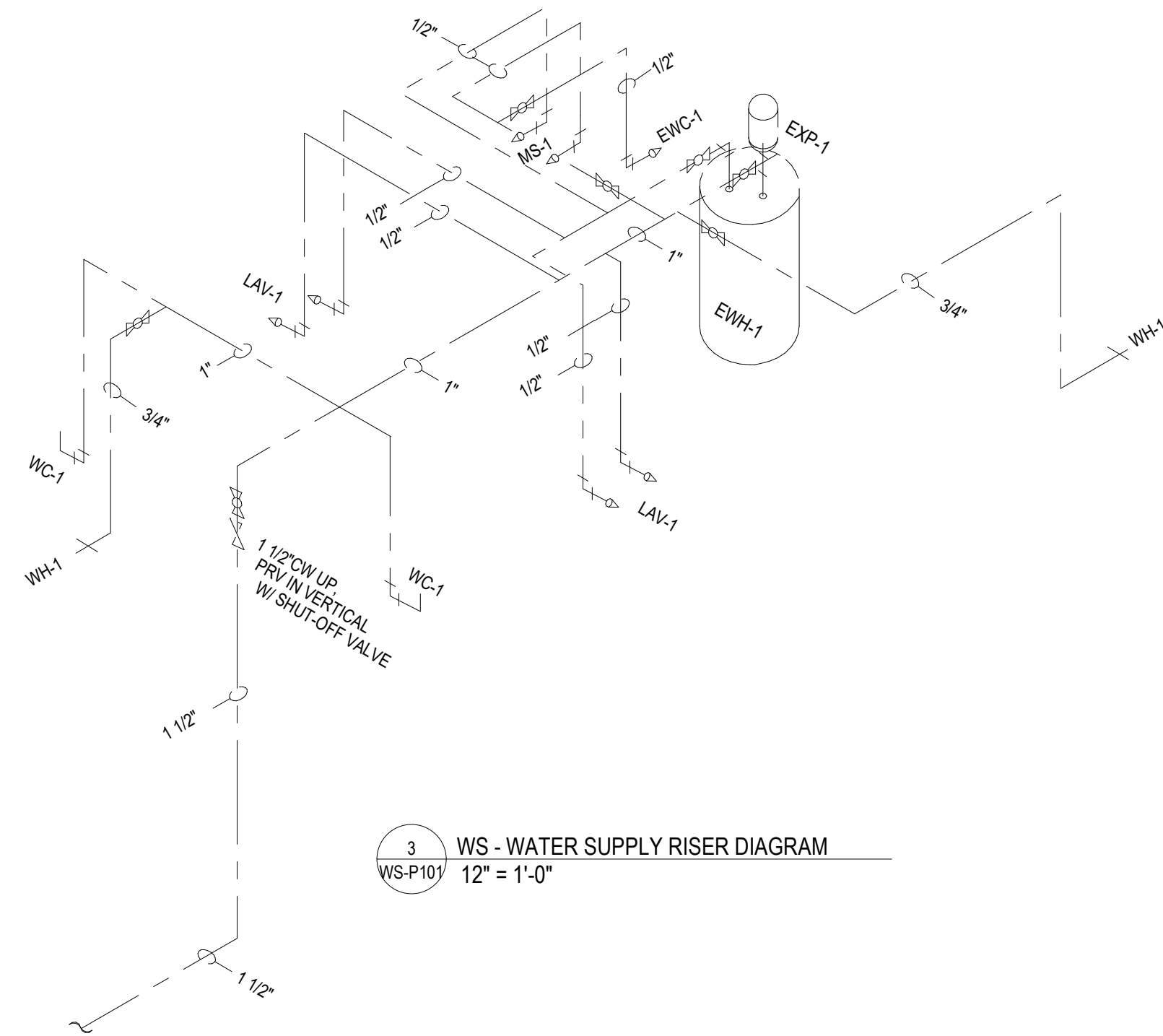
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS	

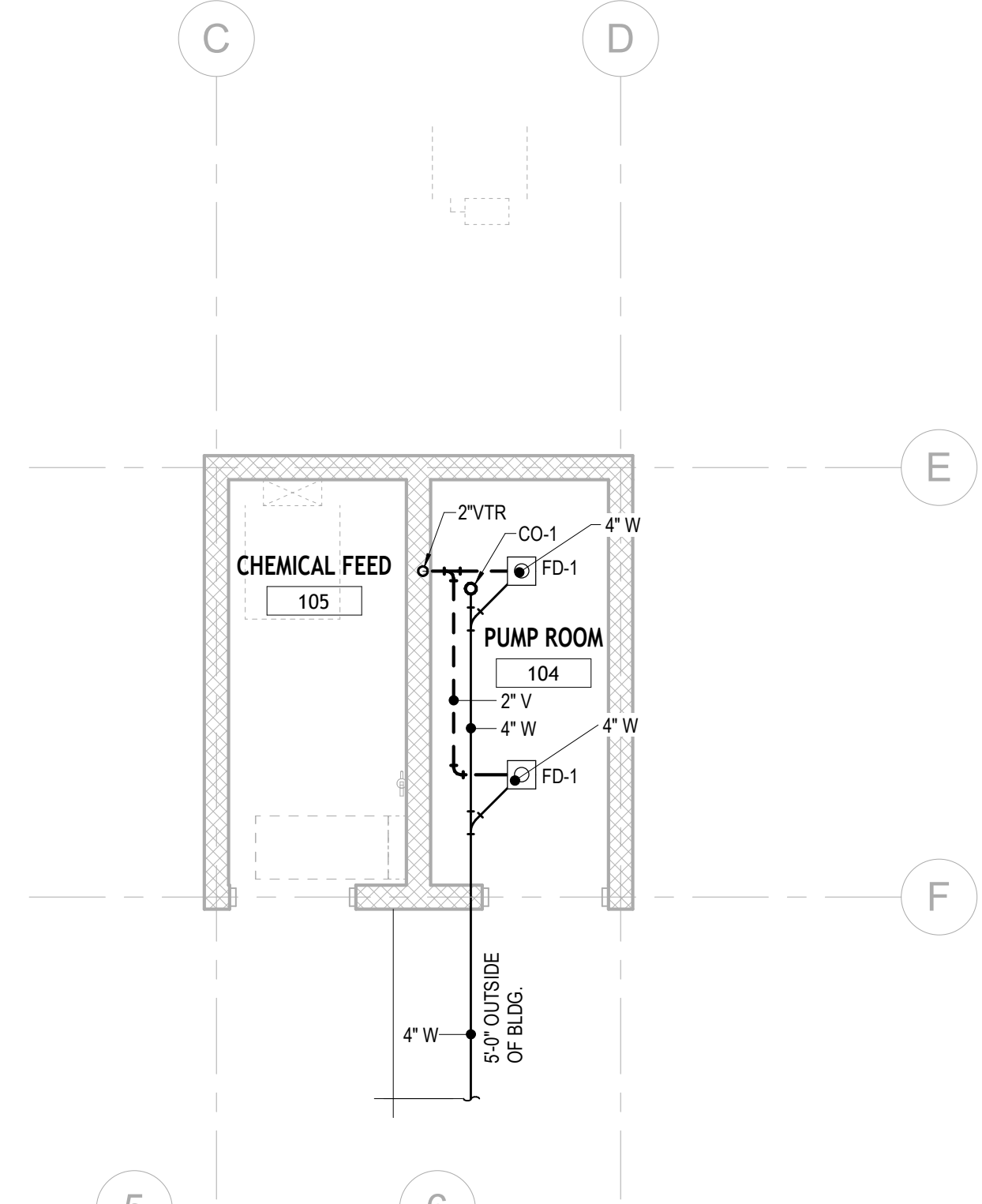
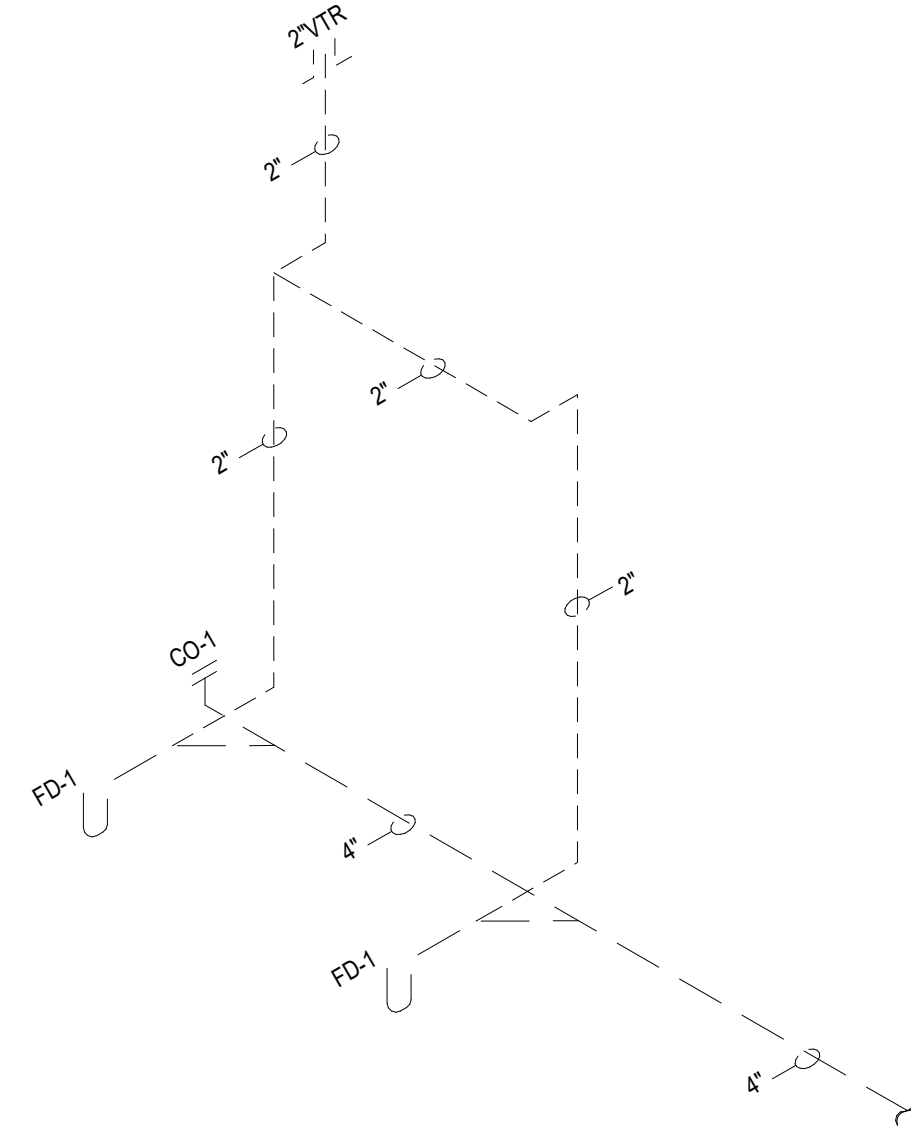
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WS-P001



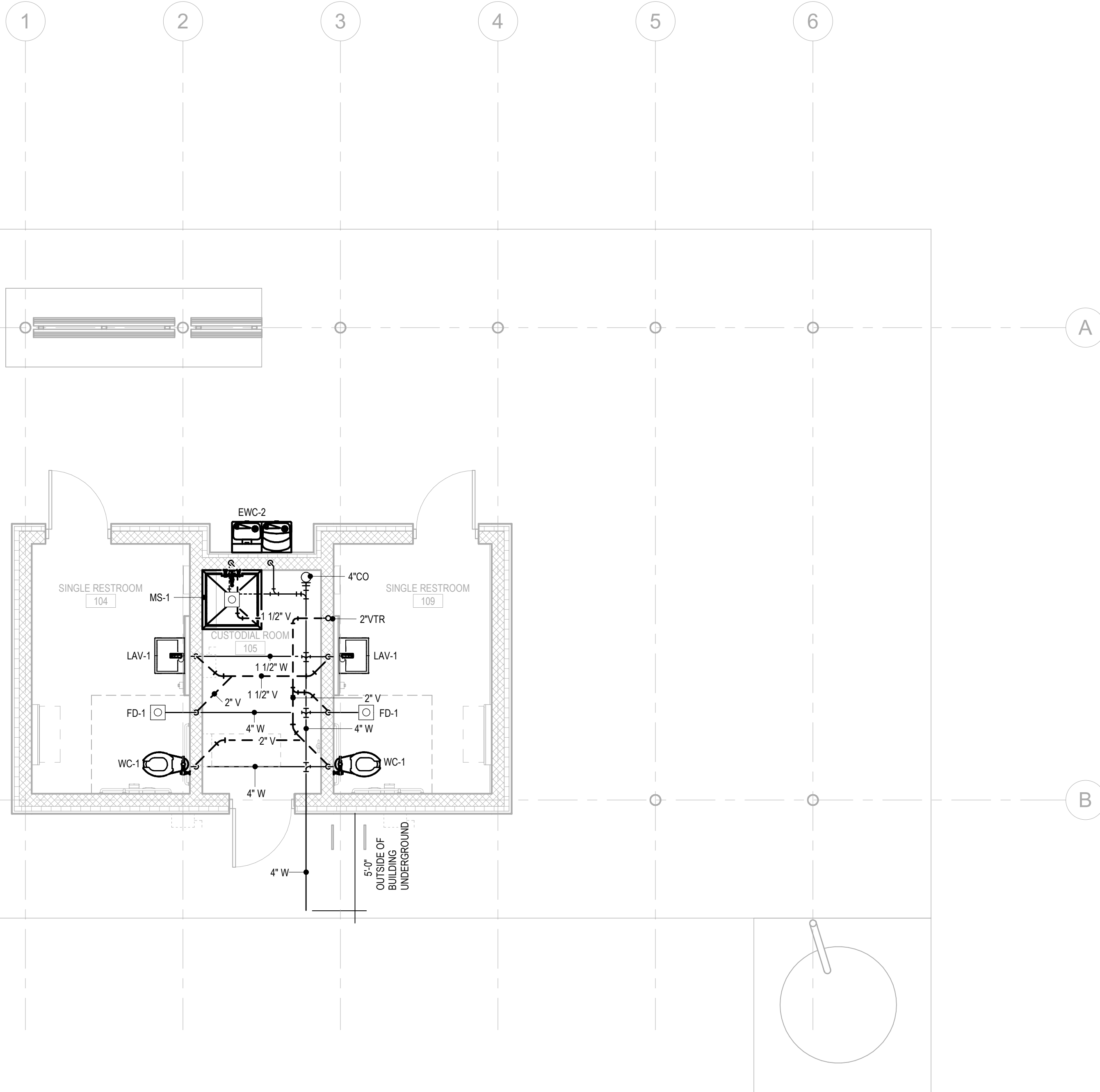
4 WS - WASTE AND VENT RISER DIAGRAM
WS-P101 NOT TO SCALE



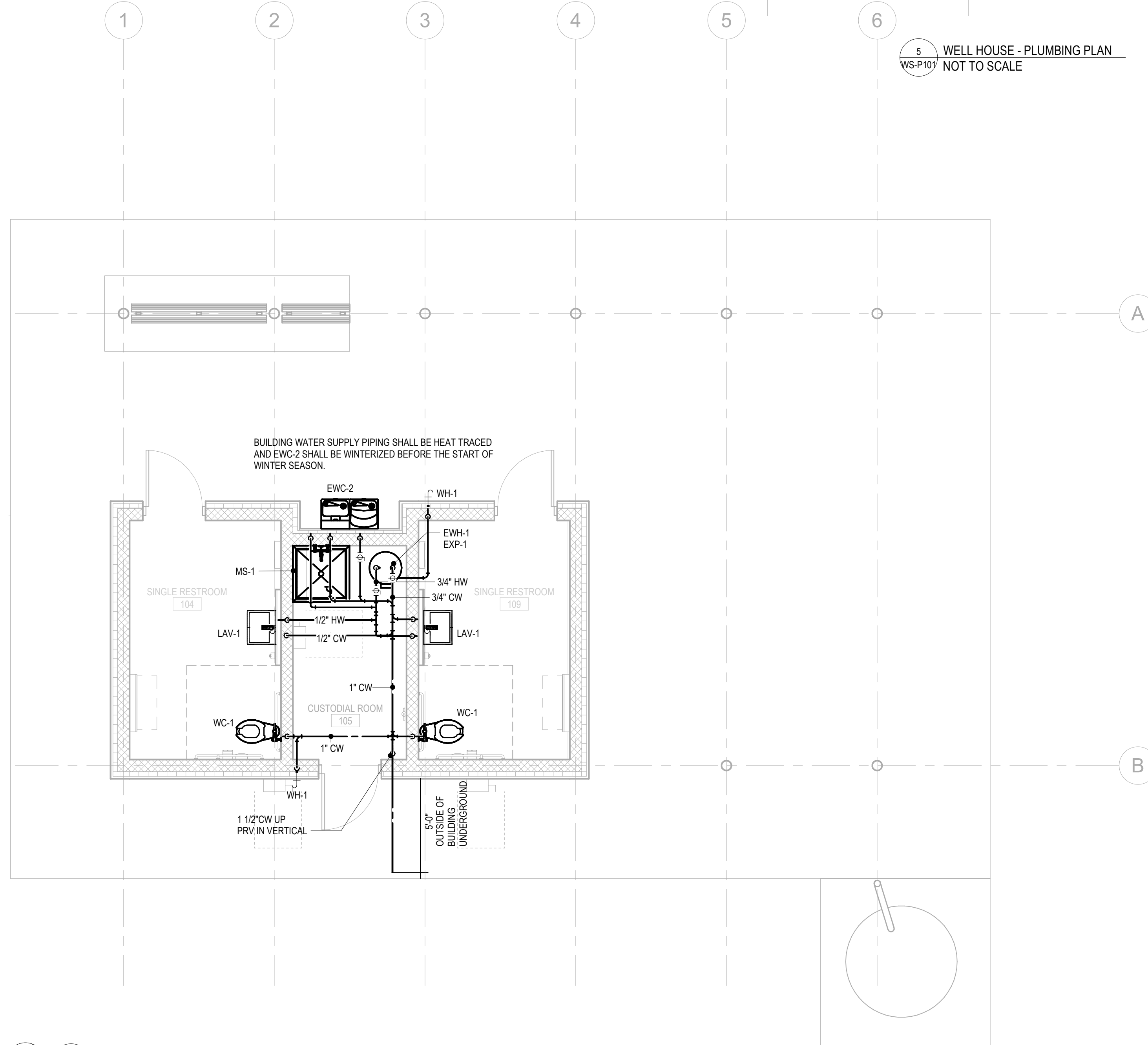
3 WS - WATER SUPPLY RISER DIAGRAM
WS-P101 12" = 1'-0"



5 WELL HOUSE - PLUMBING PLAN
WS-P101 NOT TO SCALE



2 SHELTER - DWV PIPING PLAN
WS-P101 1/4" = 1'-0"

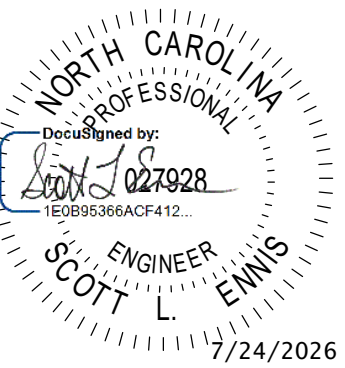


1 SHELTER - DOMESTIC WATER PLAN
WS-P101 1/4" = 1'-0"

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PLANS

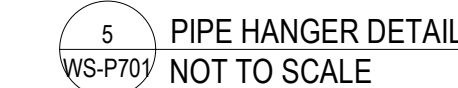
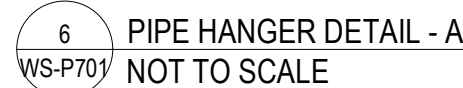
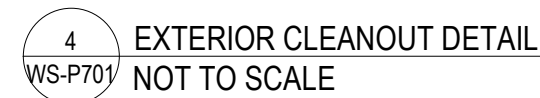


LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

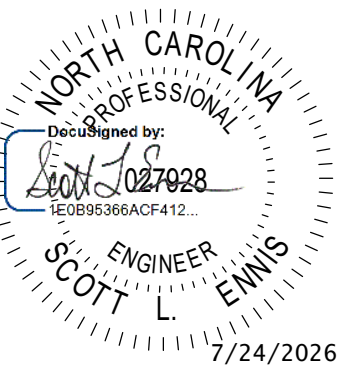
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WS-P101



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DETAILS



LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS

Date: 07/27/26

WS-P701

General Plan Symbols		
	Plan Revision Number	
	Detail Number on Sheet	
	Sheet Number Where Detail is Placed	
	Keynote Symbol	
	Continuation Symbol	
	Point Where New Connects to Existing	
	Room Name / Number	
	Area Being Demolished	
	Area Not In Contract	
Abbreviations		

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MC	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CATCH	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DNW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PLBS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EW	ELECTRIC WATER COOLER	PWR	POWER
EW	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELIEF HUMIDITY
FL	FLOOR	RLA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
IN	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/Hr	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EW	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC Symbols	
	Sq. Duct Size (Width x Height)
	Oval Duct Size (Width / Height)
	Round Duct Size (Diameter)
	Existing Duct To Remain
	Duct To Be Demolished
	Supply Air
	Ventilation Air
	Outdoor Air
	Return Air
	Transfer Air
	Building Relief Air
	General Exhaust Air
	Kitchen Exhaust Duct
	Laboratory Hood
	Env. Tobacco Smoke

	Flue Gas Vent
	Combustion Air
	Rect. Supply Duct Rise / Drop
	Round Supply Duct Rise / Drop
	Rect. Return Duct Rise / Drop
	Round Return Duct Rise / Drop
	Rect. Exhaust Duct Rise / Drop
	Round Exhaust Duct Rise / Drop
	Grille, Register, Diffusers Type (See Schedule) Airflow: 500 Neck Size / Module Size: 10"Ø/24"x24" Catalog Throw Performance: 29 Hb/817 Throw Pattern: Max NC Rating
	Round Ceiling Diffuser Airflow: 100 Neck Size: 6"Ø Type Count for Space: TYP. X 4
	Sidewall Supply Grille Airflow: 500 Nominal Duct Size: 18"x10" Mounting Elevation (Centerline): AFF. 9'-0"
	Supply Airflow: 200 Neck Size/ Slot(s) Active Length
	Sidewall Return Grille Airflow: 800 Nominal Duct Size: 16"x10" Mounting Elevation (Centerline): AFF. 9'-0"
	Ceiling Return Airflow: 500 Neck Size / Module Size: 12"x10"/24"x24" Max NC Rating: 25

Mechanical Equipment	
	Unit Identity 10.0 ton Nominal Cooling Capacity
	Heating Capacity 180000 Btu/h Gas Supply Input Rate
	Operating Weight 379 lb
	Design Airflow Rate 500 CFM
	Design Water Flow 3.7 GPM
	Bottom of Equipment Height AFF. 7'-0"
	Existing to Remain Equipment
	Existing Relocated Equipment
	Equipment By Others (Refer To Other Disciplines)
Damper Types	
	Manual Damper
	Motorized Damper
	Backdraft Damper
	Smoke Damper
	Fire Damper
	Comb. Fire/Smoke Damper

Mechanical Piping Symbols	
	Nominal Pipe Size
	Above Ground Piping
	Below Ground Piping
	Pipe Slope (When Applicable)
	Existing Pipe To Remain
	Pipe To Be Demolished
	Chilled-Water Return
	Chilled-Water Supply
	Condensate Drain
	Condenser-Water Return
	Condenser-Water Supply
	Geothermal-Water Return
	Geothermal-Water Supply
	Hot-Water Return
	Hot-Water Supply
	Natural Gas
	Liquid Propane
	Refrigerant Liquid
	Refrigerant Gas
	Refrigerant Discharge
	Steam Supply
	Steam Condensate Return
	Pipe Rise / Drop

Valve Types	
	2" SHUTOFF
	2" BAL
	2" BFV
	2" CHECK
	Alternate Check Valve
	Circuit Setter
	Gate Valve
	Globe Valve
	Locked Shield Valve
	Pressure Reducing Valve
	Quick Opening Valve
	Fluid Strainer
	Elec. Control Valve
	3-Way Elec. Valve
	Emergency Gas Shutoff
	Plug Valve
	Gas Shutoff Cock
	Gas Regulator

Mechanical Devices	
	Unit Identity
	Temperature Sensor
	Temp/ Humidity Sensor
	Temp/ CO2 Sensor
	Thermostat
	Humidistat
	Humidity Sensor
	Carbon Dioxide Detector
	Carbon Monoxide Detector
	Hydrogen Gas Detector
	Hazardous Gas Detector
	Nitrogen Dioxide Detector
	Oxygen Gas Detector

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MECHANICAL GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES PRIOR TO INSTALLATION OF ANY DUCTWORK AND EQUIPMENT.
2. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
3. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT ITEMS TO BE FURNISHED UNDER THE CONTRACT WILL FIT THE SPACE AVAILABLE. THE CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT AS NECESSARY.
4. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE.
5. ALL POWER WIRING AND ASSOCIATED CONDUIT SHALL BE PROVIDED TO HVAC EQUIPMENT BY THE ELECTRICAL CONTRACTOR. THE HVAC CONTRACTOR SHALL FURNISH ALL MOTOR STARTERS, DISCONNECT SWITCHES, AND COMBINATION STARTERS FOR HVAC EQUIPMENT AND TURN THEM OVER TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION. ALL FINAL POWER WIRING CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE BY THE HVAC CONTRACTOR FROM SLACK WIRE LEFT BY THE ELECTRICAL CONTRACTOR. REFER TO STANDARD ELECTRICAL CONNECTION DETAIL FOR DIVISION RESPONSIBILITY REGARDING ELECTRICAL REQUIREMENTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING, IN CONDUIT, REQUIRED TO SATISFACTORY CONTROL ALL EQUIPMENT INCLUDED IN THIS SECTION. FURNISH AND WIRE ALL CONTROL DEVICES SUCH AS THERMOSTATS, SWITCHES, RELAYS AND ANY OTHER DEVICES NECESSARY TO CONTROL THE EQUIPMENT FURNISHED IN THIS SECTION UNLESS NOTED OTHERWISE.
6. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION.
7. THE MECHANICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
8. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PENETRATIONS (PERTAINING TO HVAC WORK) THROUGH THE ROOF. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ROOFING CONTRACTOR FOR WATER PROOFING AROUND THESE OPENINGS. ROOF CURBS FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH THE GENERAL CONTRACTOR AND ROOFING SUB-CONTRACTOR.
10. ALL FIRE WALL DUCT PENETRATIONS SHALL BE FIRE SEALED IN ACCORDANCE WITH THE LATEST UL STANDARDS.
11. PROVIDE SHEET METAL COLLARS AT ALL LOCATIONS WHERE CUTS PENETRATE WALLS. COLLARS SHALL BE 14 GAUGE MINIMUM OR EQUIVALENT TO THE DUCTWORK IF DUCTWORK IS OF A HEAVIER GAUGE METAL.
12. INSTALL BALANCING DAMPERS IN ALL DUCTS SO AS THE LOCATION IS VISIBLE FROM THE FLOOR.
13. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS OTHERWISE NOTED.
14. INSTALL TEMPERATURE SENSORS AND THERMOSTATS 48" ABOVE FINISHED FLOOR. COORDINATE WITH INSTALLATION OF LIGHT SWITCHES.
15. ALL DUCTWORK, PIPING, AND EQUIPMENT LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND COORDINATE THE DUCT LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION. THIS CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST TO THE OWNER, ALL DUCT OFFSETS REQUIRED FOR THE SYSTEMS TO FIT THE SPACE PROVIDED WHETHER OR NOT THOSE OFFSETS ARE INDICATED ON THE PLANS.
16. ALL DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING SUPPORT STRUCTURE AND NOT STRUCTURAL BRIDGING OR THE ROOF DECK. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF DUCTWORK WITH THE GENERAL CONTRACTOR. ALL DUCT PENETRATIONS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
17. ALL HYDRONIC PIPING SHALL BE PERMANENTLY IDENTIFIED BY THEIR CONTENT, FUNCTION, AND DIRECTION OF FLOW. ALL IDENTIFICATION MARKERS SHALL BE PERMANENTLY STENCILED ON THE PIPING IN A LEGIBLE MANNER AT NO GREATER DISTANCE THAN 10'-0" ON CENTER. ALL PIPING IN THE MECHANICAL ROOMS AND FINISHED AREAS ARE TO BE PAINTED AS FOLLOWS: CHILLED WATER- BLUE, HOT HEATING WATER- RED, DHW MAKEUP- GREEN.
18. A MANUAL AIR VENT SHALL BE INSTALLED AT EVERY HIGH POINT OF THE ENTIRE HYDRONIC PIPING SYSTEM.
19. DO NOT INSTALL HYDRONIC PIPING OR DUCTWORK OVER AND ELECTRICAL SWITCHGEAR OR PANEL BOARDS.
20. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESS DOORS AS REQUIRED FOR CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION OF HIS WORK THAT WILL REQUIRE FUTURE MAINTENANCE. THESE DOORS SHALL BE 20"x20". THE DRYWALL CONTRACTOR WILL PROVIDE THE REQUIRED FRAMED OPENINGS. AND INSTALL THE ACCESS DOORS. DOORS SHALL MATCH CEILING RATINGS.
21. FLEXIBLE PIPE CONNECTIONS SHALL BE PROVIDED AT ALL HYDRONIC PIPING CONNECTIONS AT CHILLERS.
22. ALL BELT DRIVEN EQUIPMENT SHALL BE PROVIDED WITH A NEW BELT AT FINAL COMPLETION AND A NEW SPARE BELT SHALL BE TURNED OVER TO MAINTENANCE STAFF.
23. PIPING SHALL BE COLOR CODED AS FOLLOWS WITH FLOW ARROWS AND LABELS AT 10' FOOT INTERVALS AND AT ALL TURNS AND EACH FLOOR AND WALL PENETRATIONS: SEE SPECIFICATIONS FOR COLORS.
24. ALL DETAILS CONTAINED IN SECTION 600 ARE APPLICABLE TO THE INSTALLATION OF THE MECHANICAL SYSTEMS ON THIS PROJECT

WEST PARCEL MECHANICAL SHEET INDEX	
WS-M001	COVER SHEET
WS-A101	PLANS
WS-M601	DETAILS & SCHEDULES

ENERGY CODE COMPLIANCE STATEMENT WESTERN SHELTERS	
MECHANICAL SYSTEM, SERVICE SYSTEM, AND EQUIPMENT METHOD OF COMPLIANCE	
PREScriptive ☒ ENERGY COST BUDGET ☐	
THERMAL ZONE: 4A	
EXTERIOR DESIGN CONDITIONS:	
WINTER DRY BULB: 19.7°F SUMMER DRY BULB: 95.0°F	
INTERIOR DESIGN CONDITIONS:	
WINTER DRY BULB: 40°F SUMMER DRY BULB: 75°F RELATIVE HUMIDITY: 50%	
BUILDING HEATING LOAD: 4.1 MBH BUILDING COOLING LOAD: 0.49 TONS	
MECHANICAL SPACING CONDITIONS SYSTEM: UNITARY - COOLING PROVIDED BY DUCTLESS SPLIT SYSTEM. FREEZE PROTECTION PROVIDED BY ELECTRIC CABINET WALL HEATERS. BOILER - N/A CHILLER - N/A	
EQUIPMENT EFFICIENCIES: SEE SCHEDULES	
EQUIPMENT SCHEDULES WITH MOTORS: SEE SCHEDULES	
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE CURRENT INTERNATIONAL MECHANICAL CODE SCOTT L. ENNIS, P.E.	
AN ONSITE SYSTEM INSTALLATION COMPLIANCE REVIEW SHALL BE CONDUCTED BY A DESIGN PROFESSIONAL PRIOR TO FINAL INSPECTION AND ISSUANCE OF CERTIFICATION OR OCCUPANCY. THE MECHANICAL CONTRACTOR SHALL MAKE APPROPRIATE PERSONNEL AVAILABLE DURING DESIGN PROFESSIONAL'S ONSITE INSPECTION TO ASSIST WITH REVIEW AND ADDITIONAL EQUIPMENT AND CONTROLS TESTING. CONTRACTOR SHALL SCHEDULE ONSITE INSPECTION WITH DESIGN PROFESSIONAL A MINIMUM ONE WEEK PRIOR TO VISIT. AT THE TIME OF THE VISIT THE MECHANICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING FOR REVIEW BY THE LOCAL AHJ AND DESIGN PROFESSIONAL:	
- A COMPLETED TEST AND BALANCE REPORT - A COPY OF ALL OPERATION AND MAINTENANCE MANUALS - DOCUMENTATION THAT EQUIPMENT INSTALLER HAS FOLLOWED THE MANUFACTURER'S RECOMMENDATIONS FOR STARTUP AND TESTING OF ALL EQUIPMENT.	

ENERGY CODE COMPLIANCE STATEMENT WELL HOUSE	
MECHANICAL SYSTEM, SERVICE SYSTEM, AND EQUIPMENT METHOD OF COMPLIANCE	
PREScriptive ☒ ENERGY COST BUDGET ☐	
THERMAL ZONE: 4A	
EXTERIOR DESIGN CONDITIONS:	
WINTER DRY BULB: 19.7°F SUMMER DRY BULB: 95.0°F	
INTERIOR DESIGN CONDITIONS:	
WINTER DRY BULB: 40°F SUMMER DRY BULB: 75°F RELATIVE HUMIDITY: N/A	
BUILDING HEATING LOAD: 1.5 MBH BUILDING COOLING LOAD: N/A	
MECHANICAL SPACING CONDITIONS SYSTEM: UNITARY - FREEZE PROTECTION HEATING ONLY PROVIDED BY ELECTRIC CABINET WALL HEATERS. BOILER - N/A CHILLER - N/A	
EQUIPMENT EFFICIENCIES: SEE SCHEDULES	
EQUIPMENT SCHEDULES WITH MOTORS: SEE SCHEDULES	
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE CURRENT INTERNATIONAL MECHANICAL CODE SCOTT L. ENNIS, P.E.	
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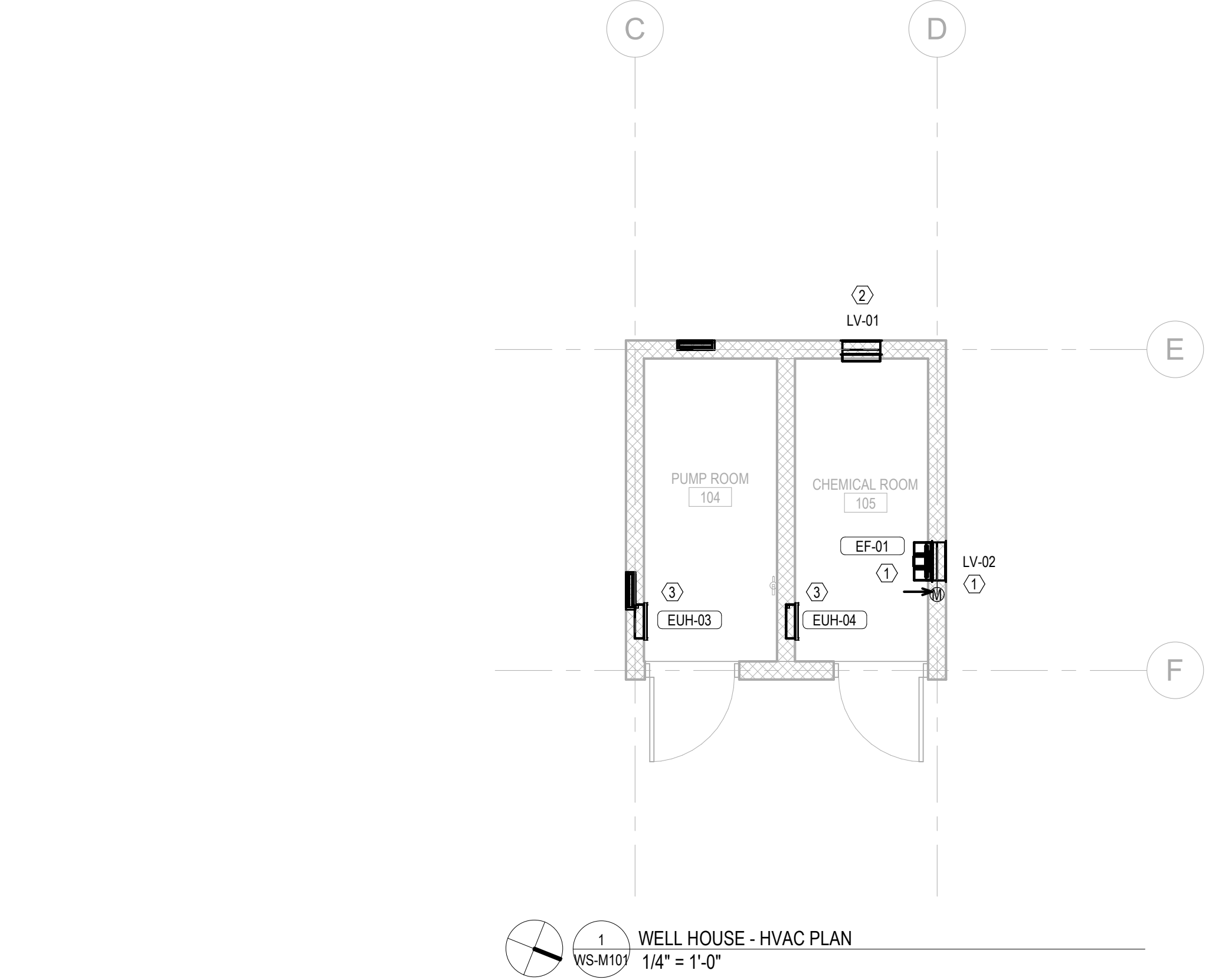
COVER SHEET

NORTH CAROLINA PROFESSIONAL ENGINEER
DESIGNED BY: Scott L. Ennis
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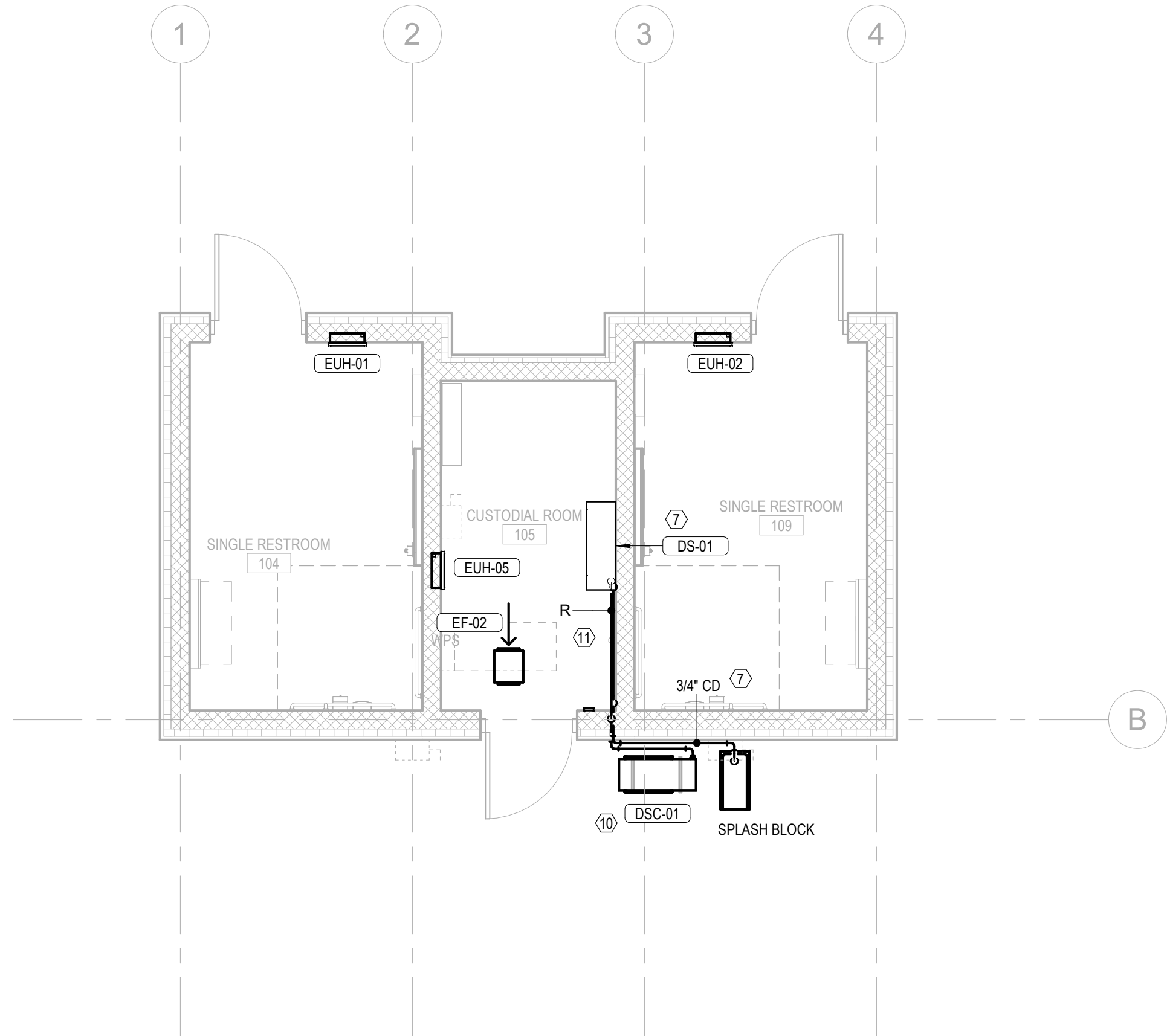
LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS	

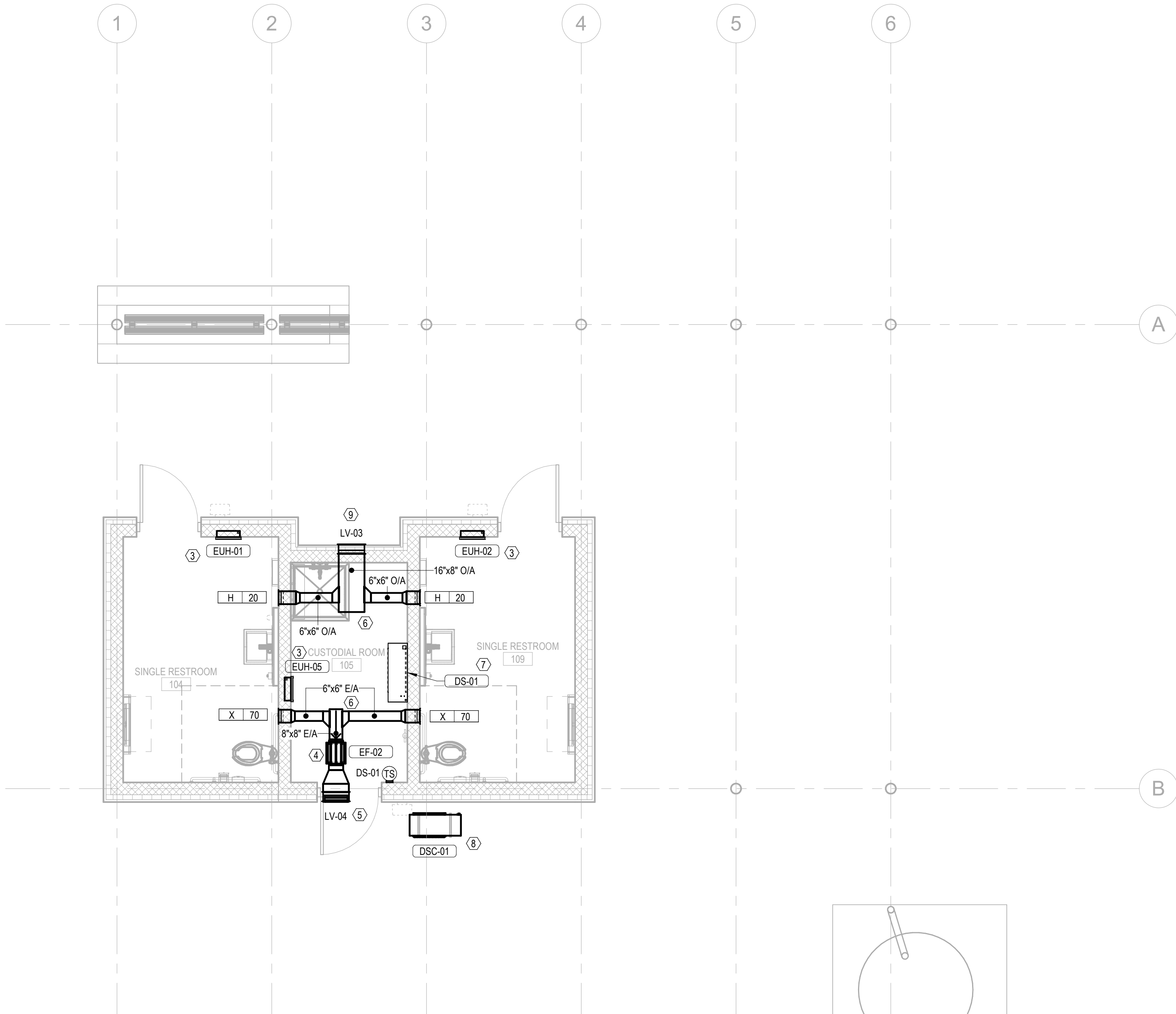
Date: 07/27/26
WS-M001



1 WELL HOUSE - HVAC PLAN
WS-M101 1/4" = 1'-0"



3 SHELTER - MECHANICAL PIPING PLAN
WS-M101 1/4" = 1'-0"



2 SHELTER - HVAC PLAN
WS-M101 1/4" = 1'-0"

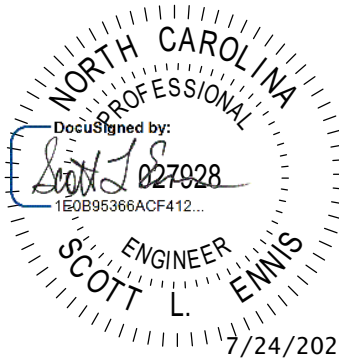
KEY NOTES

1. INSTALL EXHAUST FAN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CLEARANCES. INSTALL LOUVER FOR EXHAUST DISCHARGE. LOUVER TO BE MOUNTED LOW AT 12" A.F.F. AS MEASURED TO BOTTOM OF LOUVER.
2. LOUVER TO BE MOUNTED AT 6'-7" A.F.F. AS MEASURED TO BOTTOM OF LOUVER.
3. INSTALL WALL HEATER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CLEARANCES. HEATER SHALL BE INSTALLED AT 1'-6" A.F.F. AS MEASURED FROM BOTTOM OF UNIT.
4. INSTALL EXHAUST FAN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CLEARANCES.
5. INSTALL LOUVER FOR EXHAUST DISCHARGE. LOUVER TO BE MOUNTED AT 8'-8" A.F.F. AS MEASURED TO BOTTOM OF LOUVER. MAINTAIN 10' BETWEEN EXHAUST DISCHARGE AND ANY OUTSIDE AIR INTAKE.
6. EXPOSED DUCTWORK IN MECHANICAL ROOM SHALL BE SINGLE-WALL RECTANGULAR CONSTRUCTION. WRAP OUTSIDE AIR DUCT WITH WRAP INSULATION. ROUTE HIGH THROUGH SPACE. MAINTAIN MINIMUM 6'-8" CLEAR BELOW DUCTWORK.
7. INSTALL DUCTLESS AHU HIGH ON WALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CLEARANCES. MOUNT AT 9'-0" A.F.F. AS MEASURED TO BOTTOM OF UNIT. PROVIDE REFRIGERANT PIPING FROM HEAT PUMP AT EXTERIOR. PROVIDE CONDENSATE DRAIN PIPING.
8. INSTALL HEAT PUMP ON CONCRETE HOUSEKEEPING PAD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CLEARANCES.
9. INSTALL LOUVER FOR OUTSIDE AIR INTAKE. LOUVER TO BE MOUNTED AT 8'-8" A.F.F. AS MEASURED TO BOTTOM OF LOUVER. MAINTAIN 10' BETWEEN OUTSIDE AIR INTAKE AND ANY EXHAUST DISCHARGE.
10. ROUTE CONDENSATE DRAIN FROM AHU TO EXTERIOR AS INDICATED. DISCHARGE ONTO SPLASH BLOCK SLOPING AWAY FROM BUILDING.
11. ROUTE REFRIGERANT PIPING HIGH FROM AHU ALONG WALL TO EXTERIOR. TURN DOWN EXTERIOR WALL AND TURN OUT OF BUILDING. ROUTE TO HEAT PUMP AT EXTERIOR.

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PLANS



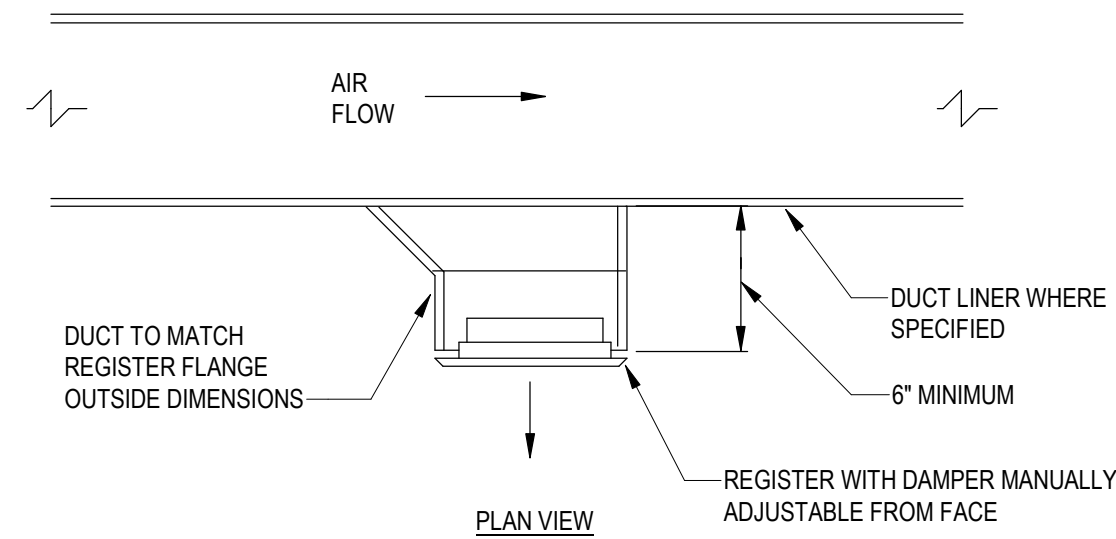
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Wake County, NC

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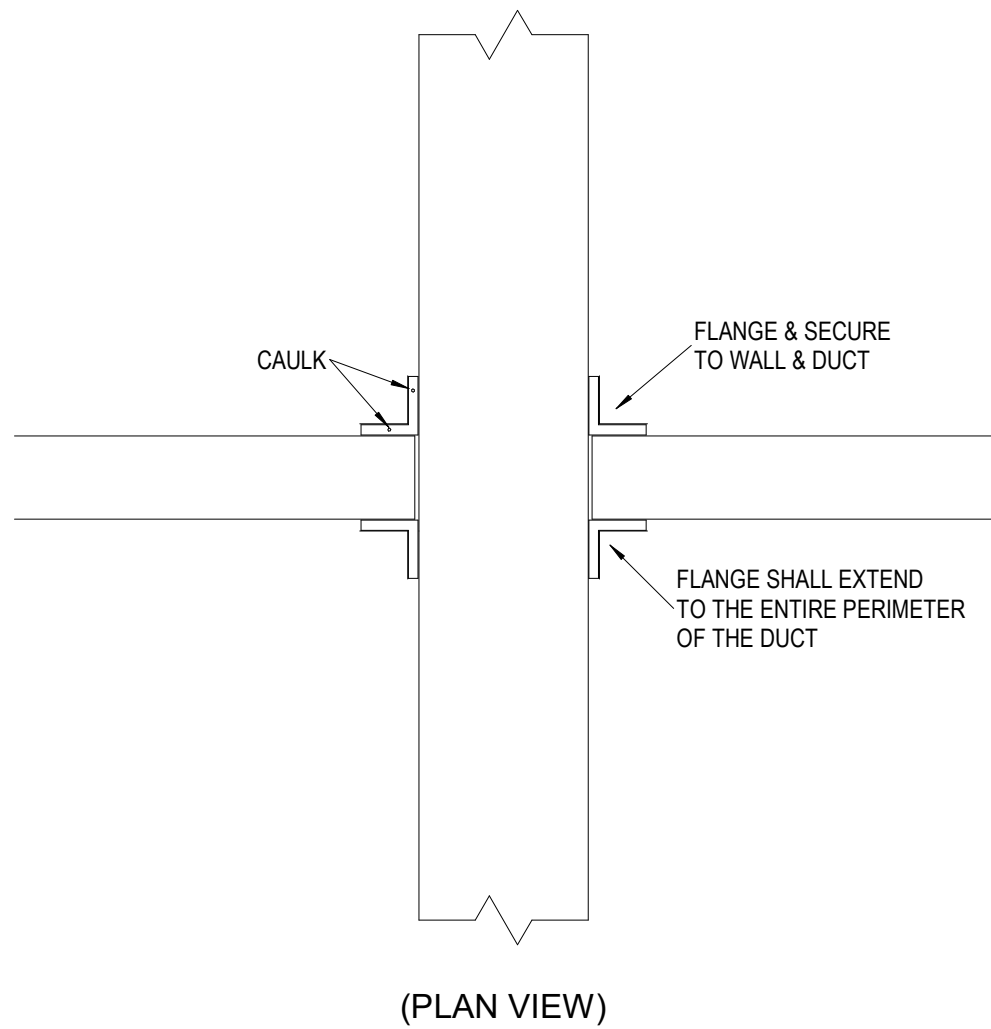
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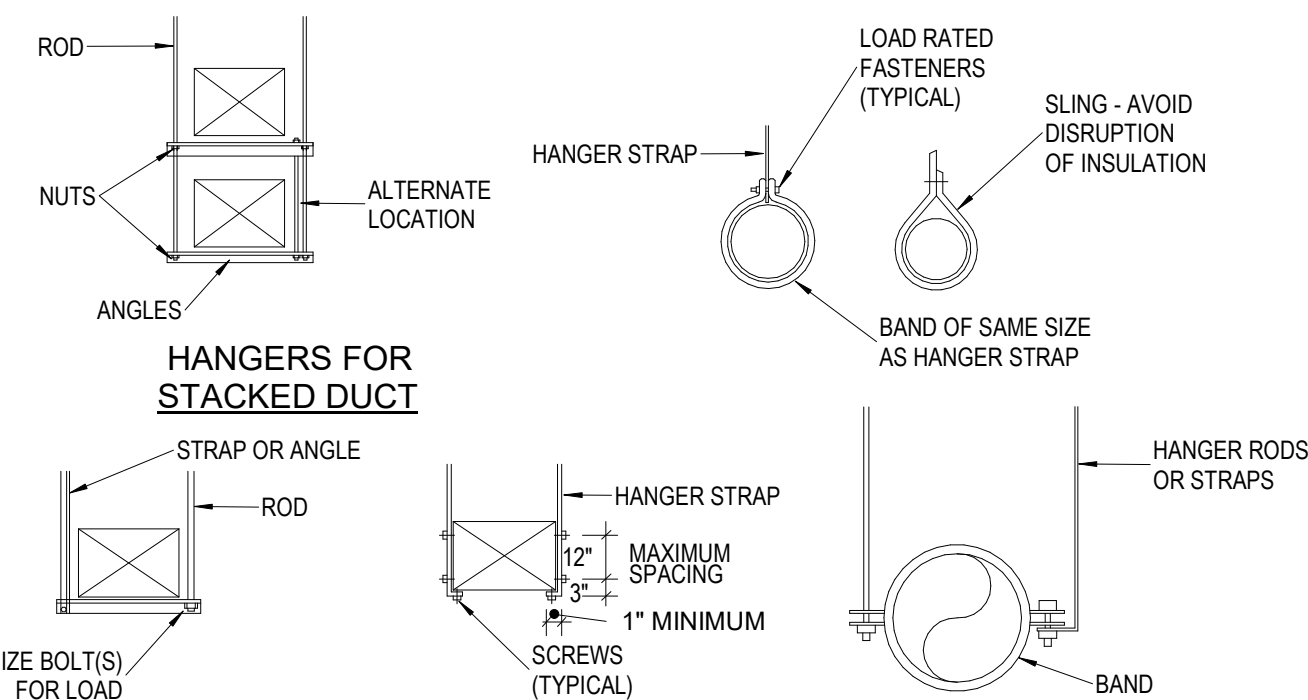
WS-M101



1 TYPICAL DUCT MOUNTED REGISTER (RECTANGULAR DUCT)
WS-M601 NOT TO SCALE



2 DETAIL - NON-RATED DUCT PENETRATION
WS-M601 1/8" = 1'-0"



- NOTES:**
1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.
 2. DO NOT EXCEED LOAD RATINGS FOR METHOD USED. FROM SMACNA DUCT STANDARDS

3 DETAIL - TYPICAL DUCT HANGERS
WS-M601 NOT TO SCALE

Western Parcel Mini-Split System Indoor Unit Schedule									
Mark	Manufacturer	Model	Product Type	Nominal Capacity	Design Airflow Rate	Electrical Voltage	Phase	Product Weight	Notes
DS-01	Mitsubishi	PKA-AL18NL	Cooling Only	1.5 ton	215 CFM	208 V	1	28 lb	1

GENERAL NOTES:

- A. BASIS OF DESIGN IS MITSUBISHI EQUIPMENT. EQUIVALENTS BY DAIKIN, LG, OR AS LISTED IN THE SPECIFICATIONS
- B. PROVIDE CONDENSATE PUMP, POWERED DIRECTLY FROM INDOOR UNIT TERMINALS, WITH EACH UNIT. 1 GPH AT 33 FT OF HEAD
- C. PROVIDE PAR-42MAUB WIRED CONTROLLER FOR ALL UNITS UNLESS OTHERWISE SPECIFIED.
- D. UNITS SHALL BE TESTED PER AHRI 1230
- E. PROVIDE BACnet INTERFACE

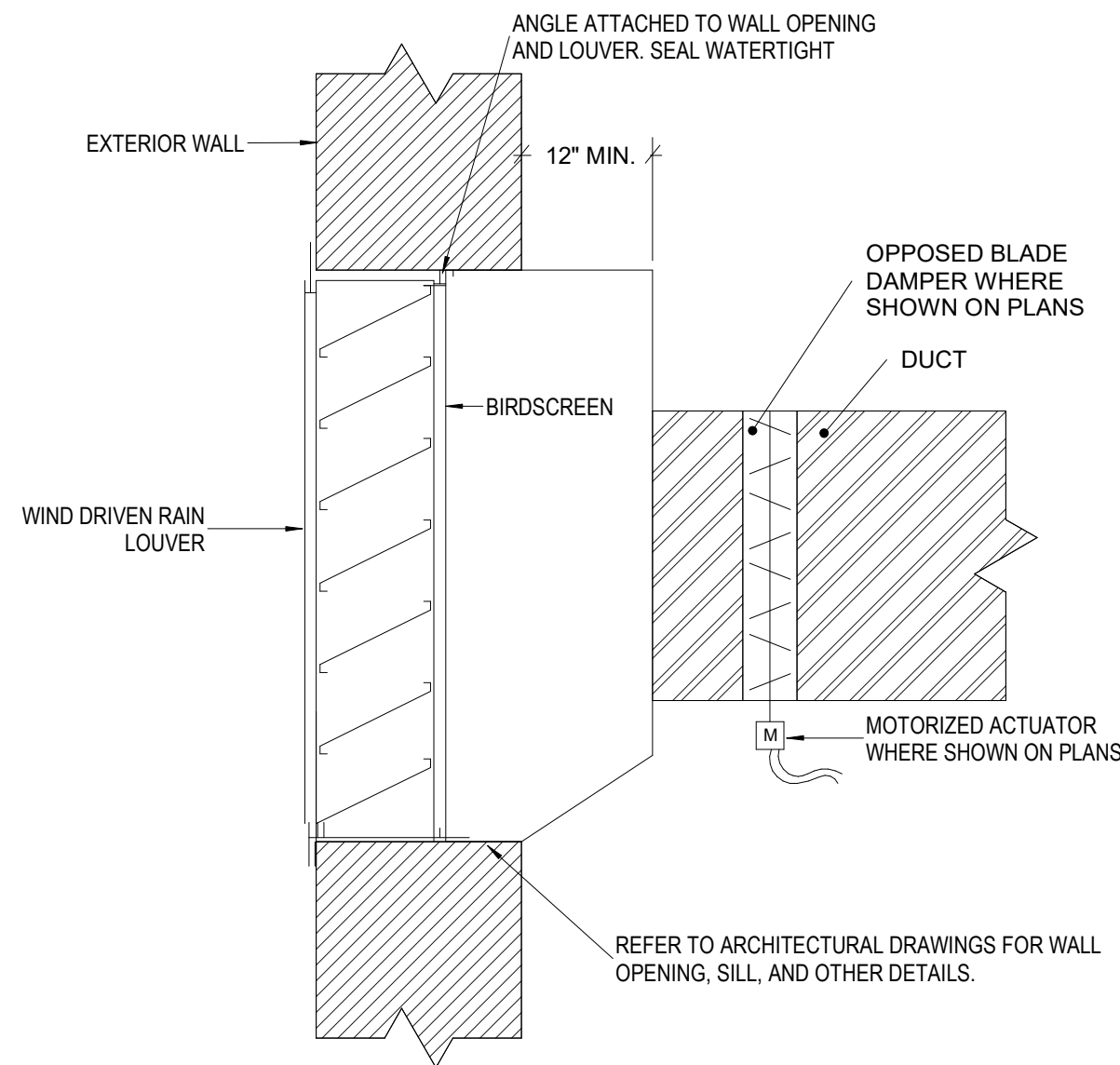
REMARKS:

1. POWER AND LOW VOLTAGE WIRING AND CONDUIT INTERCONNECTING INDOOR AND OUTDOOR UNITS SHALL BE PROVIDED BY DIVISION 23

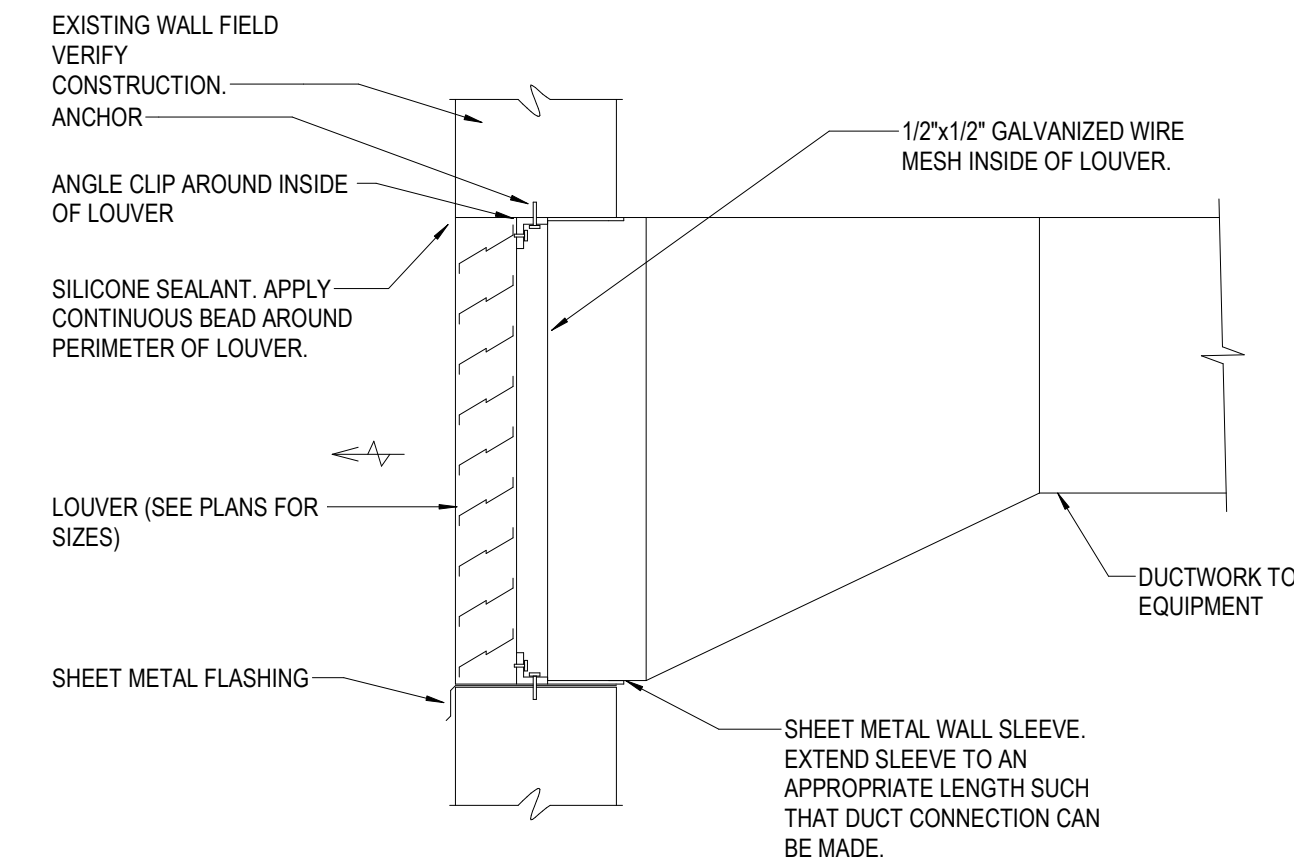
Western Parcel Mini-Split Outdoor Split System Schedule												
Mark	Manufacturer	Model	Product Type	Rated Cooling Capacity	SEER2	Refrigerant Type	Refrigerant Est. Charge	Electrical Voltage	Phase	MCA	MOCP	Product Weight
DSC-01	Mitsubishi	PUY-A18NKA7	Cooling Only	18,000 Btu/h	19.5	R-454B	4.4 lbm	208 V	1	16.0 A	27.0 A	99 lb

GENERAL NOTES:

- A. BASIS OF DESIGN IS MITSUBISHI EQUIPMENT. EQUIVALENTS BY DAIKIN, LG, OR AS LISTED IN THE SPECIFICATIONS.
- B. UNITS SHALL BE TESTED PER AHRI 1230
- C. PROVIDE OPTIONAL WIND BAFFLE FOR ALL UNITS FOR LOW AMBIENT COOLING DOWN TO 0 DEG. F
- D. ALL ROOF CURBS/RAILS AND ATTACHMENTS THERETO SHALL BE THIRD PARTY LISTED FOR THE PROJECT WIND ZONE. ANCHORING DETAILS FOR THE UNIT TO THE RAILS, AND RAILS TO THE STRUCTURE, SHALL BE INCLUDED WITH THE SUBMITTAL



4 DETAIL - OUTSIDE AIR/EXHAUST LOUVER
WS-M601 1/8" = 1'-0"



5 LOUVER ASSEMBLY DETAIL
WS-M601 NOT TO SCALE

Western Parcel Shelters Grilles, Registers & Diffusers Schedule								
Mark	Description	Manf.	Type	Model	Installation	Border Application	Size	Remarks
H	Supply Grille	PRICE	Sidewall	620	Wall Mount	Surface Mount	8"x8"	1, 2, 3
X	Exhaust	PRICE	Sidewall	530	Wall Mount	Surface Mount	8"x8"	1, 5, 6

GENERAL NOTES:

- A. BASIS OF DESIGN IS PRICE. EQUIVALENTS BY TITUS, KRUEGER, TUTTLE AND BAILEY, NAILOR, OR AS LISTED IN SPECIFICATIONS
- B. PROVIDE VOLUME DAMPERS AT TAKE-OFF FOR EACH GRILLE
- C. ALL AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM
- D. THE PRICE MODELS SCHEDULED HERE ARE BASIS OF DESIGN, INCLUDING GENERATED NOISE. PROPOSED SUBSTITUTIONS WILL BE JUDGED BY THOSE CRITERIA ALSO
- E. WHERE LOCATED IN HARD CEILINGS, PROVIDE ALUMINUM MOUNT FRAME/PLASTER FRAME FOR HARD CEILING THAT ALLOWS DIFFUSER/GRILLE WITH FLEX CONNECTION TO BE LIFTED OUT OF FRAME TO ACCESS CEILING SPACE. TYPICAL OF ALL HARD CEILING LOCATIONS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN
- F. FOR SIDE WALL GRILLES, PROVIDE REMOTE CABLE OPERATED, GEAR DRIVEN BALANCING DAMPER OPERABLE FROM FACE OF DIFFUSER

REMARKS:

1. COLOR SHALL BE SELECTED BY THE ARCHITECT AT THE TIME OF SUBMITTAL REVIEW.
2. PROVIDE OPPOSED BLADE ALUMINUM DAMPER
3. WHERE MOUNTED ON A WALL OR OTHER FINISHED ARCHITECTURAL SURFACE, PROVIDE CONCEALED MOUNTING BRACKET OPTION IN LIEU OF COUNTERSUNK SCREW TYPE.

Western Parcel Fan Schedule												
Mark	Manufacturer	Model	Fan Design				Fan Arrangement	Fan Drive Type	Weight	Electrical		Remarks
			Capacity	TSP	bhp	RPM				Voltage	Phase	
EF-01	COOK	10XW28D17	100 CFM	0.10 in-wg	0.13 hp	770	WALL MOUNTED	DIRECT	42 lb	120 V	1	2, 3, 4, 5, 6
EF-02	GREENHECK	SQ-70-VG	140 CFM	0.27 in-wg	0.02 hp	1450	INLINE	DIRECT	27 lb	120 V	1	1, 2

GENERAL NOTES:

- A. PROVIDE ALL DUCT TRANSITIONS FOR FANS.
- B. THE UNIT HOUSING SHALL BE CONSTRUCTED OF ALUMINUM.
- C. ALL FANS TO BE U.L. LISTED.
- D. PROVIDE WITH INTEGRAL DISCONNECT.
- E. EXTERNALLY OR INTERNALLY MOUNTED DISCONNECT SWITCH FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- F. EXTERNALLY MOUNTED STARTER FURNISHED BY DIVISION 23 INSTALLED BY DIVISION 26.
- G. PROVIDE 24V MOTORIZED DAMPER(S) UNLESS OTHERWISE DIRECTED.
- H. PROVIDE OVERLOAD PROTECTION FOR ALL FANS, COORDINATE WITH DIVISION 26.
- I. PROVIDE SPEED CONTROLLERS FOR ALL DIRECT DRIVE FANS.
- J. ESP DOES NOT INCLUDE FACTORY BACKDRAFT DAMPER. THIS PRESSURE DROP SHALL BE ADDED BY THE MANUFACTURER TO THE ESP LISTED WHEN SELECTING FANS.

REMARKS:

1. PROVIDE HANGING VIBRATION ISOLATION KIT WITH NEOPRENE ISOLATORS.
2. PROVIDE DISCONNECT SWITCH, NEMA-1 INDOORS, NEMA 3R OUTDOORS OR FOR CORROSION RESISTANCE, TOGGLE, MOUNTED AND WIRED.
3. PROVIDE OSHA MOTOR SIDE GUARD, WALL HOUSING, AND CAST ALUMINUM CONSTRUCTION.
4. PROVIDE CORROSION RESISTANT WALL COLLAR.
5. PROVIDE CORROSION RESISTANT FASTENERS.
6. PROVIDE PHENOLIC EPOXY POWDER COATING FOR CORROSION RESISTANCE.

Western Parcel Louver Schedule								
Mark	Manf.	Model	Purpose	CFM	Size	Minimum Free Area (Sq.ft.)	Max FPM	Remarks
LV-01	GREENHECK	EHH-601	INTAKE	100	16X8	0.16	600	1
LV-02	GREENHECK	EHH-601	EXHAUST	100	16X16	0.54	750	1
LV-03	GREENHECK	EHH-601	INTAKE	40	16X8	0.16	600	1
LV-04	GREENHECK	EHH-601	EXHAUST	140	16X8	0.16	750	1

GENERAL NOTES:

- A. PROVIDE FRAMED 1/2" x 1/2" ALUMINUM BIRD SCREEN FOR ALL LOUVERS
- B. ALL LOUVERS SHALL BE RATED FOR THE PROJECT WIND ZONE. REFER TO STRUCTRAL DRAWINGS.
- C. LOUVERS SHALL HAVE 3-COAT 70% PVDF FINISH (AAMA 2605) WITH A DRY FILM THICKNESS OF 2.0 mil MINIMUM. PROVIDE STANDARD AND CUSTOM COLOR CHARTS WITH SUBMITTAL. COLOR SHALL BE SELECTED BY ARCHITECT FROM THE FULL RANGE.
- D. ALL LOUVERS SHALL BE AMCA 500-L CERTIFIED FOR AIR PERFORMANCE, WATER PENETRATION, AND WIND DRIVEN RAIN AND BEAR APPROPRIATE SEAL. ALL LOUVERS SHALL BE RATED AS RAIN PENETRATION CLASS A FOR THE FACE VELOCITY AT THE CFM SCHEDULED.
- E. EQUIVALENTS BY RUSKIN, ARROW, AIROLITE, NAILOR, RELIABLE, POTTORFF, OR AS LISTED IN THE SPECIFICATIONS

REMARKS:

1. PROVIDE MOTORIZED DAMPER TO OPEN WHEN ASSOCIATED FAN RUNS

Western Parcel Electric Cabinet Heater Schedule										
Mark	Manufacturer	Model	Product Type	Fan Capacity	Heating Airflow Design			Electrical		Notes
					Output	Airflow	EAT	Voltage	Phase	
EUH-01	Berko	FRC	Cabinet	100 CFM	3,412 Btu/h	100 CFM	60 °F	120 V	1	1, 2, 3
EUH-02	Berko	FRC	Cabinet	100 CFM	3,412 Btu/h	100 CFM	60 °F	120 V	1	1, 2, 3
EUH-03	Berko	FRC	Cabinet	100 CFM	3,412 Btu/h	100 CFM	60 °F	120 V	1	1, 2, 3
EUH-04	Berko	FRC	Cabinet	100 CFM	3,412 Btu/h	100 CFM	60 °F	120 V	1	1, 2, 3
EUH-05	Berko	FRC	Cabinet	100 CFM	3,412 Btu/h	100 CFM	60 °F	120 V	1	1, 2, 3

GENERAL NOTES:

- A. UNITS BASED ON MARKEL 5100 AND 3420 SERIES.
- B. EQUIVALENTS: REZNOR, BERKO, INDEECO OR AS LISTED IN SPECIFICATIONS.
- C. WHERE A REMOTE WALL MOUNTED THERMOSTAT IS INDICATED, PROVIDE 24V THERMOSTAT AND CONTROLS TRANSFORMER.
- D. MOUNTING HEIGHTS ARE TO BOTTOM OF UNIT.

REMARKS:

1. PROVIDE SEMI-RECESSED SLEEVE.
2. PROVIDE FACTORY CIRCUIT BREAKER.
3. PROVIDE BUILT-IN TAMPERPROOF THERMOSTAT.
4. PROVIDE WALL-MOUNTED 24V THERMOSTAT.
5. PROVIDE HANGING BRACKET.
6. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
7. BAS CONTRACTOR TO PROVIDE T-STAT.

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DETAILS &
SCHEDULES

DESIGNED BY
SCOTT L. EWING
Professional Engineer
1027328
12/23/2023
1/24/2026

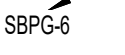
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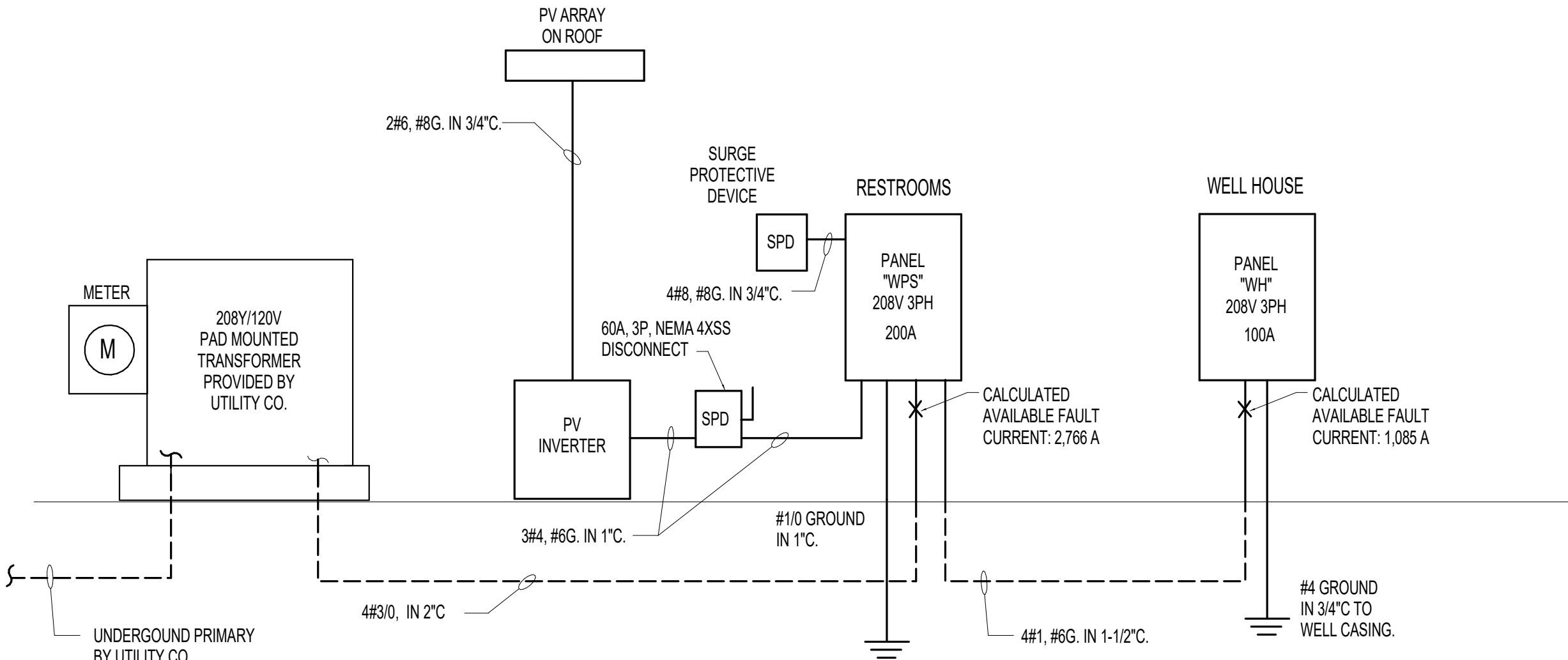
WS-M601

Electrical Abbreviations			ELECTRICAL SYMBOL LEGEND		
1P	1 Pole (2P, 3P, 4P, ETC.)				
A	Amp	MCB	Main Circuit Breaker		
AC	Above Counter	MCC	Motor Control Center		
ACLG	Above Ceiling	MDC	Main Distribution Center		
ADO	Automatic Door Opener	MDP	Main Distribution Panel		
AF	Amp Frame	MFR	Manufacturer		
AFF	Above Finished Floor	MFS	Main Fused Disconnect Switch		
AFS	Above Finished Grade	MH	Manhole		
AFI	Arc Fault Circuit Interrupter	MIC	Microphone		
AHU	Air Handling Unit	MIN	Minimum		
AL	Aluminum	MISC	Miscellaneous		
ALT	Alternate	MLO	Main Lugs Only		
AMP	Amps	MMS	Manual Motor Starter		
AMPL	Amplifier	MOA	Multioilet Assembly		
ANNUN	Annunciator	MSP	Motor Starter Panelboard		
APPROX	Approximately	MSBD	Main Switchboard		
AQ-STAT	Aquaestat	MSS	Motor Starter Switch		
ARCH	Architect, Architectural	MT	Mount		
AS	Amp Switch	MTT	Empty Conduit		
AT	Amp Trip	MTS	Manual Transfer Switch		
ATS	Automatic Transfer Switch	N.C.	Normally Closed		
AUTO	Automatic	NEC	National Electrical Code		
AUX	Auxiliary	NEMA	National Electrical Manufacturer's Association		
AV	Audio Visual	NFDS	Non-Fused Safety Disconnect Switch		
AWG	American Wire Gauge	NIC	Not In Contract		
BATT	Battery	NL	Night Light		
BD	Board	N.O.	Normally Open		
BLDG	Building	NPF	Normal Power Factor		
BMS	Building Management System	NTS	Not To Scale		
C	Conduit	OC	On Center		
CAB	Cabinet	OH	Overhead		
CAT	Catalog	OL	Overloads		
CATV	Cable Television	OA	Overhead		
CBT	Circuit Breaker	OL	Overloads		
CCTV	Closed Circuit Television	OC	On Center		
CKT	Circuit	OC	On Center		
CLG	Ceiling	OC	On Center		
COMB	Combination	OC	On Center		
CHPR	Compressor	OC	On Center		
CONN	Connection	OC	On Center		
CONST	Construction	OC	On Center		
CONT	Continuation Or Continuous	OC	On Center		
CONTR	Contractor	OC	On Center		
CONV	Convactor	OC	On Center		
CP	Circulating Pump	OC	On Center		
CR	Cathode-Ray Tube	OC	On Center		
CT	Current Transformer	OC	On Center		
CTR	Center	OC	On Center		
CU	Copper	OC	On Center		
DOP	Domestic Water Circulating Pump	OC	On Center		
DEPT	Department	OC	On Center		
DET	Detail	OC	On Center		
DIA	Diameter	OC	On Center		
DISC	Disconnect	OC	On Center		
DIST	Distribution	OC	On Center		
DN	Down	OC	On Center		
DPR	Damper	OC	On Center		
DS	Safety Disconnect Switch	OC	On Center		
DT	Double Throw	OC	On Center		
DWG	Drawing	OC	On Center		
EG	Electrical Contractor	OC	On Center		
ELEC	Electric, Electrical	OC	On Center		
ELEV	Elevator	OC	On Center		
ELU	Emergency Lighting Unit	OC	On Center		
EM	Emergency	OC	On Center		
EMS	Energy Management System	OC	On Center		
EMT	Electrical Metallic Tubing	OC	On Center		
EP	Electric Pneumatic	OC	On Center		
EQUIP	Equipment	OC	On Center		
EWC	Electric Water Cooler	OC	On Center		
EXIST	Existing	OC	On Center		
EXH	Exhaust	OC	On Center		
EXP	Explosion Proof	OC	On Center		
FA	Fire Alarm	OC	On Center		
FABP	Fire Alarm Booster Power Supply Panel	OC	On Center		
FACP	Fire Alarm Control Panel	OC	On Center		
FCU	Fan Coil Unit	OC	On Center		
FXT	Fixture	OC	On Center		
FLR	Floor	OC	On Center		
FLUOR	Fluorescent	OC	On Center		
FU	Fuse	OC	On Center		
FUDS	Fused Safety Disconnect Switch	OC	On Center		
GA	Gauge	OC	On Center		
GAL	Gallon	OC	On Center		
GALV	Galvanized	OC	On Center		
GC	General Contractor	OC	On Center		
GEN	Generator	OC	On Center		
GFI	Ground Fault Circuit Interrupter	OC	On Center		
GFP	Ground Fault Protector	OC	On Center		
GND	Ground	OC	On Center		
GRS	Galvanized Rigid Steel (Conduit)	OC	On Center		
GYP BD	Gypsum Board	OC	On Center		
HOA	Hands-Off-Automatic Switch	OC	On Center		
HORIZ	Horizontal	OC	On Center		
HP	Horsepower	OC	On Center		
HPF	High Power Factor	OC	On Center		
HT	Height	OC	On Center		
HTG	Heating	OC	On Center		
HTR	Heater	OC	On Center		
HV	High Voltage	OC	On Center		
HVAC	Heating, Ventilating And Air Conditioning	OC	On Center		
IC	Interrupting Capacity	OC	On Center		
IG	Isolated Ground	OC	On Center		
IMC	Intermediate Metal Conduit	OC	On Center		
INCAND	Incandescent	OC	On Center		
IR	Infrared	OC	On Center		
IW	Interlock With	OC	On Center		
J-BOX	Junction Box	OC	On Center		
KV	Kilovolt	OC	On Center		
KVA	Kilovolt-Ampere	OC	On Center		
KVAR	Kilovolt-Ampere Reactive	OC	On Center		
KW	Kilowatt	OC	On Center		
KWH	Kilowatt Hour	OC	On Center		
LOC	Locate Or Location	OC	On Center		
LT	Light	OC	On Center		
LTG	Lighting	OC	On Center		
LTNG	Lightning	OC	On Center		
LV	Low Voltage	OC	On Center		
MAX	Maximum	OC	On Center		
MAG S	Magnetic Starter	OC	On Center		
MC	Momentary Contact	OC	On Center		
MC	Mechanical Contractor	OC	On Center		

	TYPICAL FIXTURE DESIGNATIONS
	"X" INDICATES FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION.
	"E" INDICATES EMERGENCY BATTERY W/ LIGHT FIXTURE
	LIGHT FIXTURES, WITH FIXTURE DESIGNATION
	WALL MOUNTED EXIT SIGN. SHADED AREAS INDICATE NUMBER OF FACES, DIRECTION ARROWS AS INDICATED.
	CEILING MOUNTED EXIT SIGN. SHADED AREAS INDICATE NUMBER OF FACES, DIRECTION ARROWS AS INDICATED.
	WALL MOUNTED EMERGENCY BATTERY UNIT.
	TOGGLE SWITCH, MOUNT CENTER AT 48" AFF.
	THREE-WAY SWITCH, MOUNT CENTER AT 48" AFF.
	DIMMING SWITCH 0-10V, MOUNT CENTER AT 48" AFF.
	OCCUPANCY SENSOR WALL SWITCH, MOUNT CENTER AT 48" AFF.
	CEILING MOUNTED OCCUPANCY SENSOR
	HOME RUN TO PANEL WITH PANEL DESIGNATION (SBPG) & CIRCUIT NUMBER (6). 3/4" UNLESS NOTED OTHERWISE, SEE RISER DIAGRAM & PANELBOARD SCHEDULES FOR WIRE & CONDUIT SIZES.
	WIRING IN CONDUIT CONCEALED IN WALLS AND ABOVE CEILING.
	10'-0" DRIVEN GROUND ROD
	DUPLEX RECEPTACLE, MOUNT CENTER AT 18" AFF UNLESS NOTED OTHERWISE
	SINGLE RECEPTACLE, RATING SHALL MATCH BREAKER SIZE
	PANELBOARD, SEE SCHEDULES & DETAILS.
	DISCONNECT SWITCH
	JUNCTION BOX
	CONCEALED SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE
	CONCEALED SERVICE FLOOR BOX WITH DUPLEX RJ45
	DATA/DATA JACK, DATA JACK, CENTER AT 18" AFF.

15cd

SEE LIGHT FIXTURE SCHEDULE SHEET 'ES-E001'



Electrical General Notes

- Conductors operating at 50 volts or greater shall be in raceway. Raceway within the structure above the floor slab shall be metal. Raceway below the floor slab and underground raceway outside the structure shall be PVC.
- Low voltage cables or conductors operating at less than 50 volts shall be in metal raceway where installed within walls or inaccessible spaces. Low voltage cables may be run in cable tray where noted. Low voltage cables may be run in cable support hooks above accessible ceilings where noted. Low voltage cable shall be plenum rated in plenum spaces.
- Low voltage cables or conductors operating at less than 50 volts shall be in metal raceway. Low voltage cables may be run in cable tray where noted. Low voltage cable shall be plenum rated in plenum spaces.
- Coordinate locations of devices with architectural elevations and details. Architectural elevations and details take precedence over locations shown on electrical drawings.
- Provide cable or conduit and wire as required to achieve circuiting shown. Size conductors per NEC ampacity and wire fill criteria. Provide dedicated neutral and ground conductors for circuiting, unless noted otherwise. Increase branch circuit and/or feeder conductors including equipment grounding conductors proportionally for no more than 3% voltage drop on branch circuits and 2% on feeders per energy code.
- It is the responsibility of this contractor to coordinate installation of electrical systems and those requiring electrical connections to maintain NEC required clearances, included but not limited to areas above accessible ceilings.
- Coordinate with other trades for proper installation of equipment. Consult the drawings of other trades or crafts to avoid conflicts with equipment, etc. Conflicts shall be resolved prior to rough-in and at no additional cost to the owner.
- Leave the site clean and ready for occupancy. Remove dirt, debris, empty cartons, tools, conduit and wire scraps, and miscellaneous spare equipment and materials used in this division of the work during construction. Components shall be free of dust, grit, and foreign materials and left as new before final acceptance of work.
- The symbols and abbreviations shown on this sheet may or may not be used in this set of drawings.
- Perform work to comply with the standard practices for good workmanship published by National Electrical Contractors Association (NECA). Comply with the latest enforced edition of the National Electrical Code (NEC), local codes, amendments, and ordinances.
- Field coordinate final mechanical and equipment locations along with connection requirements and control wiring prior to rough-in. Adjust corresponding circuit breaker ratings and branch circuiting accordingly.
- Electrical work shall be performed under the supervision of a licensed master electrician. Procure permits and licenses and pay fees associated with this work.
- Materials furnished for this project shall be new, commercial grade, free of defects, and listed by a nationally recognized testing laboratory unless noted otherwise.
- Provide complete operation & maintenance manual including approved submittal drawings, warranty information for product supplied, and manufactures operation and maintenance instructions.
- The contractor is responsible for making final wiring terminations to pre-installed receptacles in office furniture. Contractor is responsible for wiring and installing voice/data devices in office furniture. Coordinate placement of devices with furniture lay-out.
- Security system to be provided under separate contract. It is the responsibility of this contractor to provide conduit provisions, back boxes, rough-ins, sleeves and power to head end equipment for exact requirements prior to start of work.
- Conduit and wire shall not be installed below floor slab unless indicated on plan by dashed conduit.
- Contractor shall be responsible for wiring electrical items shown on drawings except for items listed in note 'R' below.
- TV outlets, volume controls, nurse call dome lights, nurse call devices, telephone outlets, data outlets, and fire alarm devices shall consist of a back box with conduit stubbed above the accessible ceiling, see stub up detail. Verify size of back box required with device to be installed. Locate back boxes 6" from adjacent power receptacle intended for computer use.
- Furnish and install conduit from back boxes for the following devices into the accessible ceiling space in the corridor, unless noted otherwise:
 - 1/2" TV outlets
 - 1/2" Volume controls
 - 1/2" Door security devices (card readers, door strikes etc.)
 - 1/2" Nurse call dome lights
 - 3/4" Nurse call devices
 - 3/4" Telephone outlets
 - 3/4" Information outlets
 - 3/4" Fire alarm devices

WEST PARCEL ELECTRICAL SHEET INDEX

WS-E001	COVER SHEET
WS-E101	POWER AND LIGHTING PLANS
WS-E102	PV ROOF PLAN AND SCHEMATIC
WS-E401	SCHEDULES AND COMM RISER
WS-E501	DETAILS

WEST SHELTER

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE:	PREScriptive__X__	PERFORMANCE__
ASHRAE 90.1:	PREScriptive__	PERFORMANCE__

LIGHTING SCHEDULE

Lamp type required in fixture - See Fixture Schedule.
Number of lamps in fixture - See Fixture Schedule.
Ballast type used in the fixture - See Specifications.
Number of ballasts in fixture - See Specifications.
Total wattage per fixture - Varies - See Fixture Schedule

Total interior wattage specified versus allowed: 160 watts versus 262 watts (whole building)
Total exterior wattage specified versus allowed: 197 watts versus 1060 watts

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 406.2 More Efficient HVAC Performance
- X 406.3 Reduced Lighting Power Density
- 406.4 Enhanced Lighting Controls
- 406.5 On-Site Supply of Renewable Energy
- 406.6 Provision of Dedicated Outdoor HVAC Air System
- 406.7 High Efficiency Service Water Heating

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the 2018 North Carolina State Building Code, Energy Conservation Code.

PUMP HOUSE

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE:	PREScriptive__X__	PERFORMANCE__
ASHRAE 90.1:	PREScriptive__	PERFORMANCE__

LIGHTING SCHEDULE

Lamp type required in fixture - See Fixture Schedule.
Number of lamps in fixture - See Fixture Schedule.
Ballast type used in the fixture - See Specifications.
Number of ballasts in fixture - See Specifications.
Total wattage per fixture - Varies - See Fixture Schedule

Total interior wattage specified versus allowed: 75 watts versus 115 watts (whole building)
Total exterior wattage specified versus allowed: 33 watts versus 620 watts

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 406.2 More Efficient HVAC Performance
- X 406.3 Reduced Lighting Power Density
- 406.4 Enhanced Lighting Controls
- 406.5 On-Site Supply of Renewable Energy
- 406.6 Provision of Dedicated Outdoor HVAC Air System
- 406.7 High Efficiency Service Water Heating

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the 2018 North Carolina State Building Code, Energy Conservation Code.

Susan

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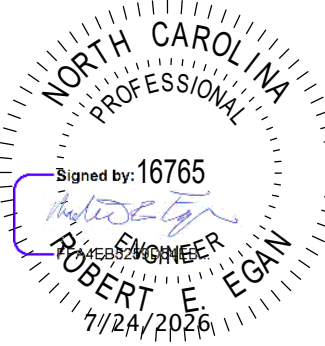
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COVER SHEET



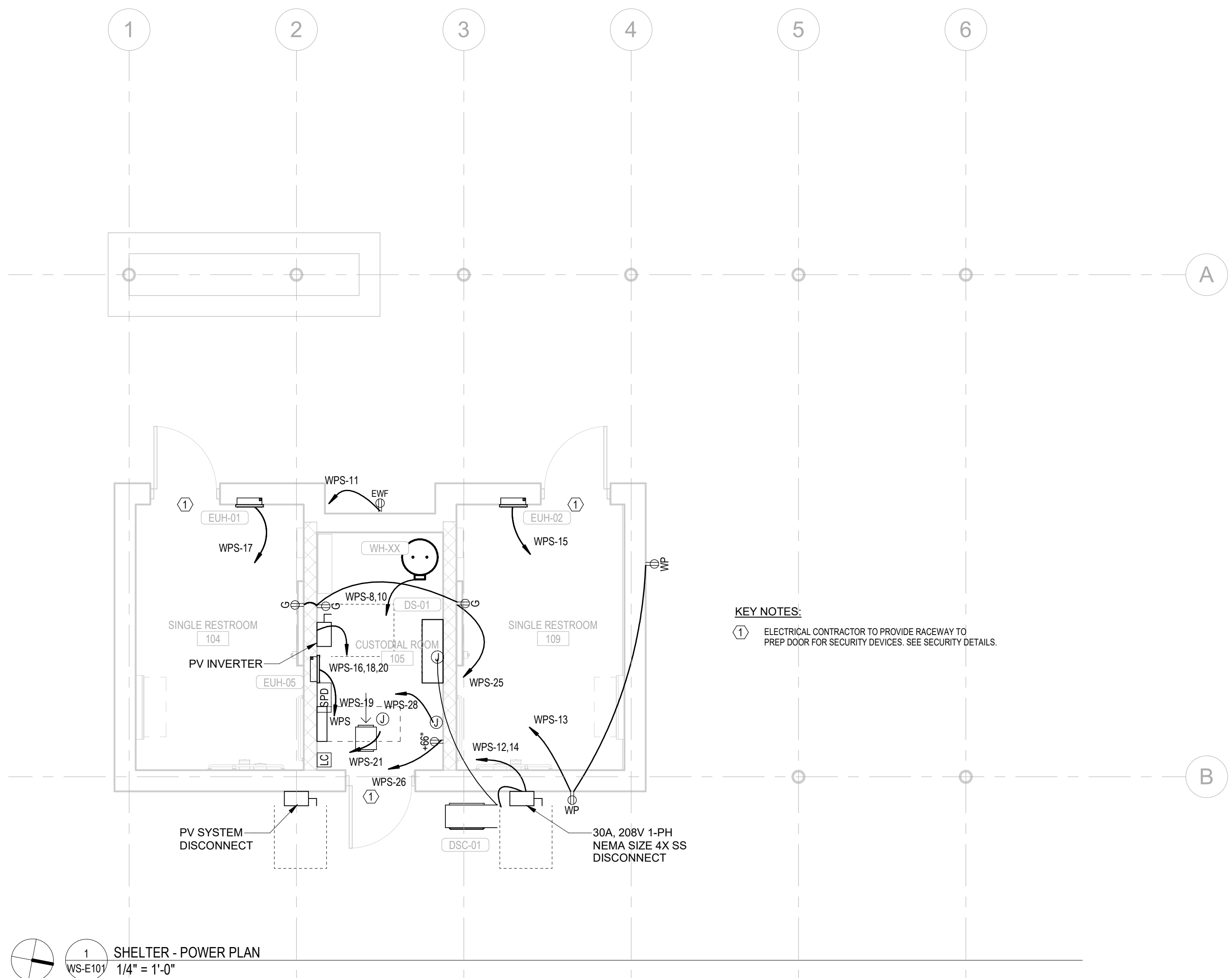
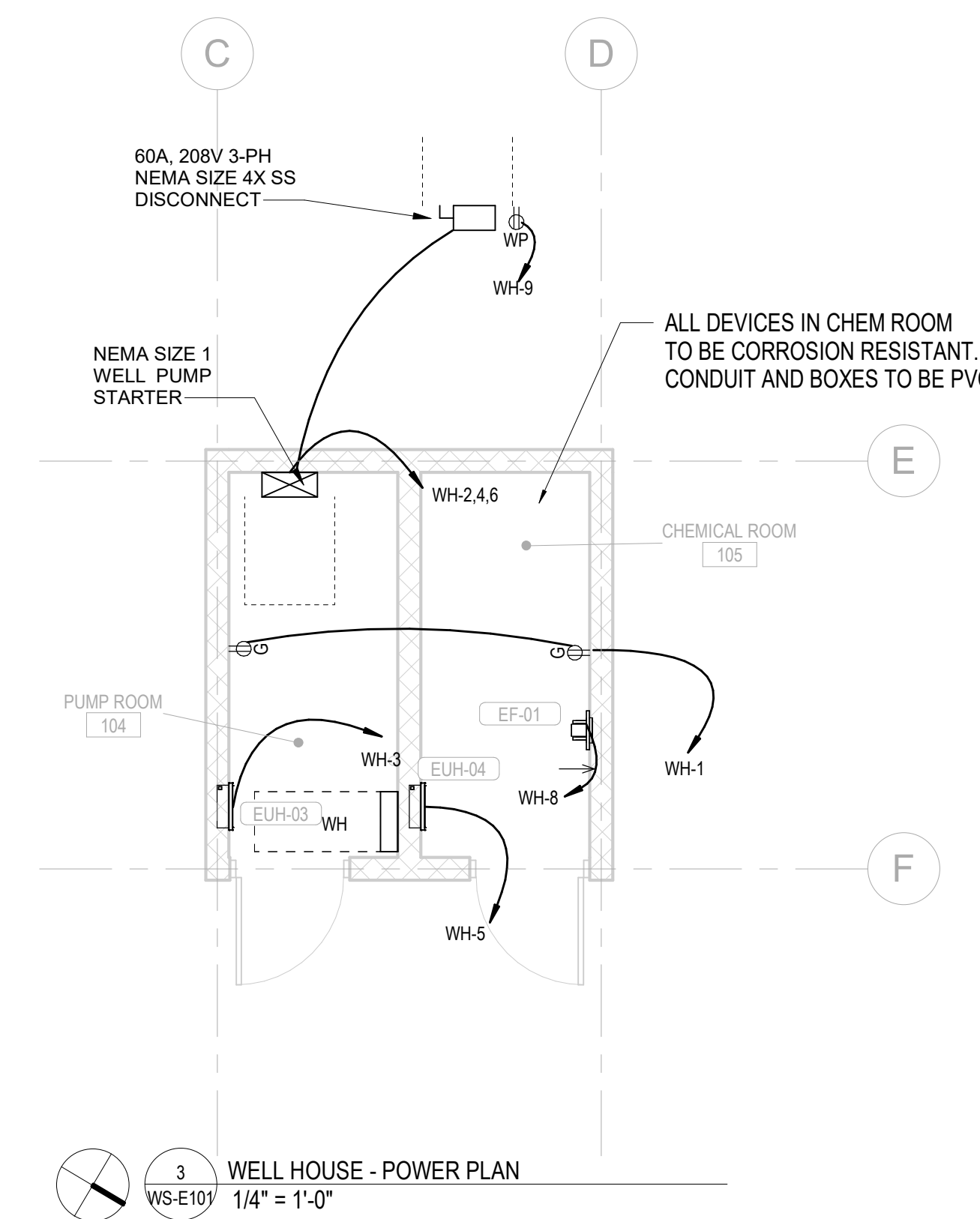
LAKE MYRA COUNTY PARK

Wake County, NC

REVISIONS

Date: 07/27/26

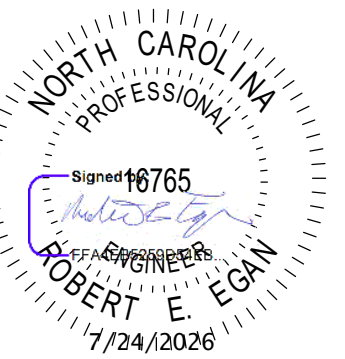
WS-E001



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POWER AND LIGHTING PLANS

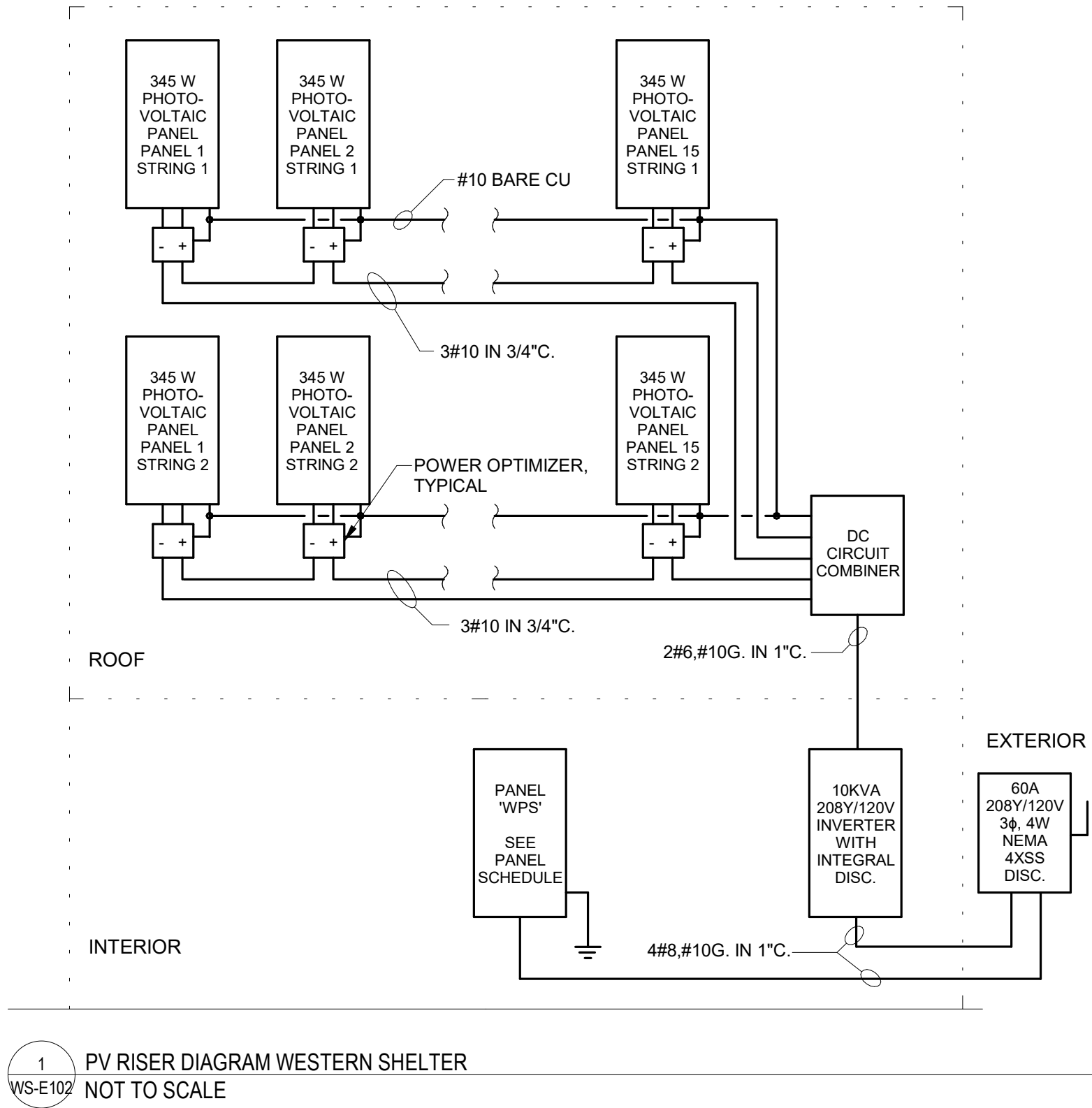


LAKE MYRA COUNTY PARK
Wake County, NC

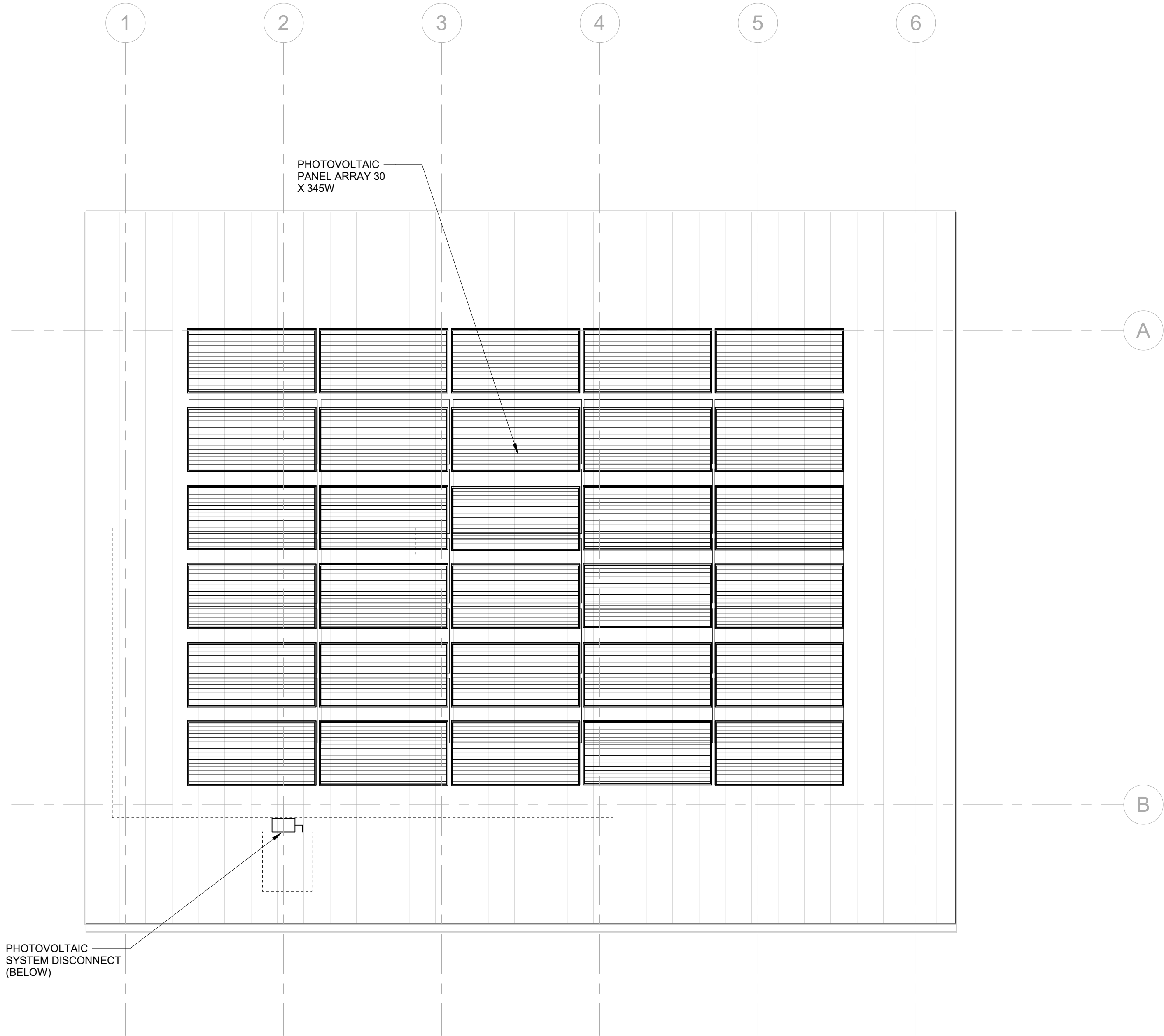
REVISIONS

Date: 07/27/26

WS-E101



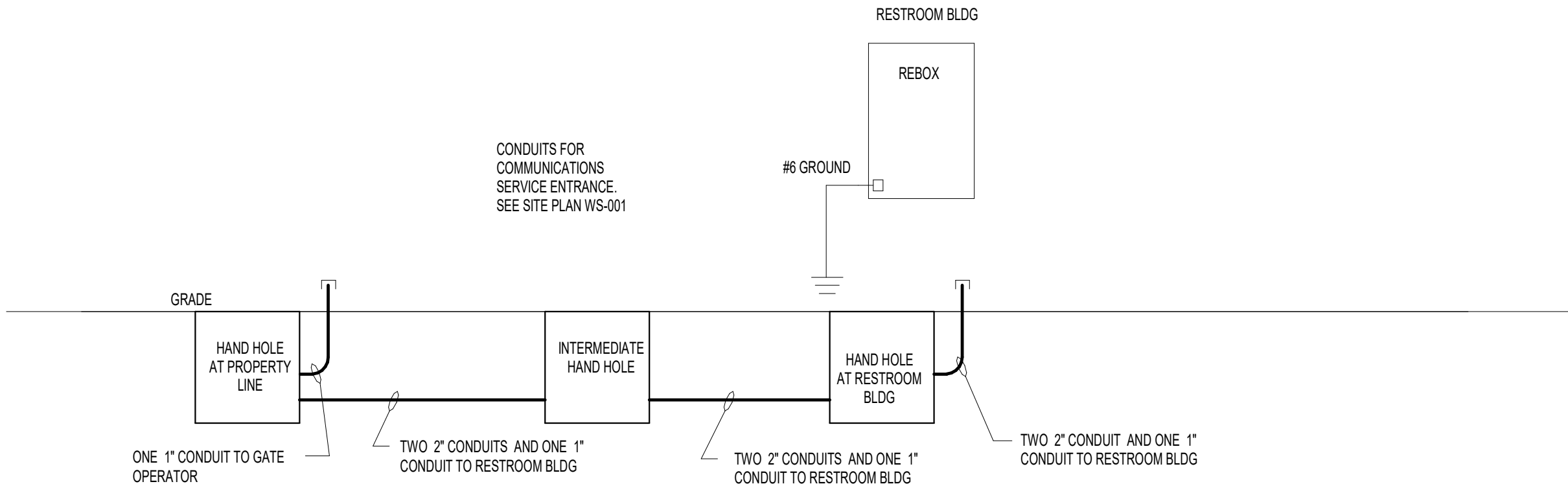
2 POWER PLAN-ROOF-WESTERN SHELTER
WS-E102 NOT TO SCALE



NOTE:
All photovoltaic system components shall bear UL or other North Carolina recognized third party testing agency labels. UL 1703 for flat plate photovoltaic panels and UL 1741 for inverters and interconnection system equipment.

Panel Name: WH												Voltage: 208Y/120/3Ø, 4W				Mains Type: MLO									
Location: PUMP ROOM 104												Mains Rating: 100 A													
Supply: WPS																SCCR:									
Mounting Surface																									
Enclosure: Type 1																									
Ckt	Description	Rating	Poles	Wire Size	A		B		C		Wire Size	Poles	Rating	Description	Ckt										
1	RECEPTACLES	20	1	2#12, #12G, 3/4"C	360	3200									2										
3	ELECTRIC HEATER 104	20	1	2#12, #12G, 3/4"C			1000	3200			4#4, #4G, 1-1/4"C	3	60	WELL PUMP	4										
5	ELECTRIC HEATER 105	20	1	2#12, #12G, 3/4"C					1000	3200					6										
7	LIGHTS	20	1	2#12, #12G, 3/4"C	108	360					2#12, #12G, 3/4"C	1	20	EF CHEMICAL ROOM 105	8										
9	HEAT TRACE	20	1	2#12, #12G, 3/4"C			400	0			--	1	20	SPARE	10										
11	SPACE	--	1	--					--	0	--	1	20	SPARE	12										
13	SPACE	--	1	--	--	--					--	1	--	SPACE	14										
15	SPACE	--	1	--			--	--			--	1	--	SPACE	16										
Connected Load:					4 kVA		5 kVA		4 kVA		(Includes load connected via feed-thru lugs.)														
Connected Current:					34 A		39 A		35 A																
Load Classification				Connected		Factor		Demand		<table><tr><td colspan="2">Panel Totals</td></tr><tr><td>Connected Load:</td><td>13 kVA</td></tr><tr><td>Connected Current:</td><td>36 A</td></tr><tr><td>Demand Load:</td><td>16 kVA</td></tr><tr><td>Demand Current:</td><td>44 A</td></tr></table>						Panel Totals		Connected Load:	13 kVA	Connected Current:	36 A	Demand Load:	16 kVA	Demand Current:	44 A
Panel Totals																									
Connected Load:	13 kVA																								
Connected Current:	36 A																								
Demand Load:	16 kVA																								
Demand Current:	44 A																								
Motor				9600 VA		125.00%		12000 VA																	
Other				360 VA		100.00%		360 VA																	
Lighting - Interior				46 VA		125.00%		57 VA																	
Receptacle - General				760 VA		100.00%		760 VA																	
Electric Heat				2000 VA		125.00%		2500 VA																	
Lighting				62 VA		100.00%		62 VA																	
Notes:																									

Panel Name: WPS												Voltage: 208Y/120/3Ø, 4W				Mains Type: MCB				Mains Rating: 200 A			
Location: CUSTODIAL ROOM 105												SCCR: 10000											
Supply:																							
Mounting Surface																							
Enclosure: Type 1																							
Ckt	Description	Rating	Poles	Wire Size	A		B		C		Wire Size	Poles	Rating	Description	Ckt								
1	INTERIOR LIGHTS	20	1	2#12, #12G, 3/4"C	112	4028									2								
3	EXTERIOR LIGHTS	20	1	2#12, #12G, 3/4"C			272	4600			4#1, #8G, 1-1/2"C	3	100	WELL HOUSE PANEL "WH"	4								
5									639	4200					6								
7	SITE LIGHTS	20	2	5#10, #12G, 3/4"C	639	1500					2#12, #12G, 3/4"C	2	20	WATER HEATER 105-2	8								
9	POLE CAMERAS	20	1	WITH CIRCUIT ABOVE			400	1500							10								
11	EWC	20	1	2#12, #12G, 3/4"C					180	1200					12								
13	REC EXTERIOR	20	1	2#12, #12G, 3/4"C	360	1200					3#10, #10G, 3/4"C	2	30	MINI SPLIT	14								
15	HEATER RESTROOM 109	40	1	2#8, #10G, 3/4"C			1000	0							16								
17	HEATER RESTROOM 104	40	1	2#8, #10G, 3/4"C					1000	0	4#8, #10G, 3/4"C	3	40	PV INVERTER	18								
19	HEATER CUSTODIAL 105	40	1	2#8, #10G, 3/4"C	1000	0									20								
21	EXHAUST FAN	20	1	2#12, #12G, 3/4"C			210	2250			3#6, #10G, 1"C	2	50	FOOD TRUCK PEDESTAL	22								
23	ENTRANCE GATE	20	1	2#8, #12G, 3/4"C					400	2250					24								
25	REC INTERIOR	20	1	2#12, #12G, 3/4"C	540	180					2#12, #12G, 3/4"C	1	20	DATA CABINET	26								
27							0	360			2#12, #12G, 3/4"C	1	20	CONTACTOR/ TIME CLOCK	28								
29	SURGE PROTECTIVE DEVICE	40	3	4#8, #10G, 3/4"C					0	1640	SEE CIRCUIT ABOVE	1	25	SEPTIC PUMP #1	30								
31					0	1640					SEE CIRCUIT ABOVE	1	25	SEPTIC PUMP #2	32								
33	SPARE	20	1	--				0	200		6#12, #12G, 3/4"C	1	15	SEPTIC CONTROL PANEL	34								
35	SPARE	20	1	--						0	--	1	20	SPARE	36								
37	SPARE	20	1	--	0	0					--	1	20	SPARE	38								
39	SPACE	--	1	--			--	--			--	1	--	SPACE	40								
41	SPACE	--	1	--					--	--	--	1	--	SPACE	42								
Connected Load:					11 kVA		11 kVA		12 kVA		(Includes load connected via feed-thru lugs.)												
Connected Current:					94 A		90 A		96 A														
Load Classification				Connected	Factor		Demand		Panel Totals														
Motor				12000 VA	120.00%		14400 VA		Connected Load: 34 kVA														
Other				10988 VA	100.00%		10988 VA		Connected Current: 93 A														
Lighting - Interior				430 VA	125.00%		538 VA		Demand Load: 38 kVA														
Receptacle - General				2020 VA	100.00%		2020 VA		Demand Current: 105 A														
Electric Water Heating				3000 VA	125.00%		3750 VA																
Electric Heat				5000 VA	125.00%		6250 VA																
Lighting				62 VA	100.00%		62 VA																
Notes:																							
Service Entrance Rated. Provide GFI breaker for circuits 11 and 22.																							

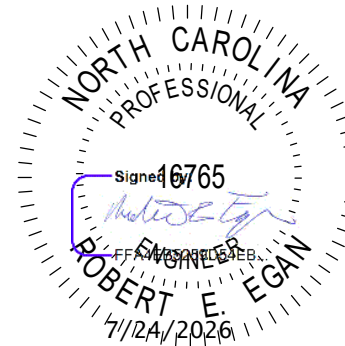


2 COMMUNICATION RACEWAY RISER WEST
WS-E401 NOT TO SCALE

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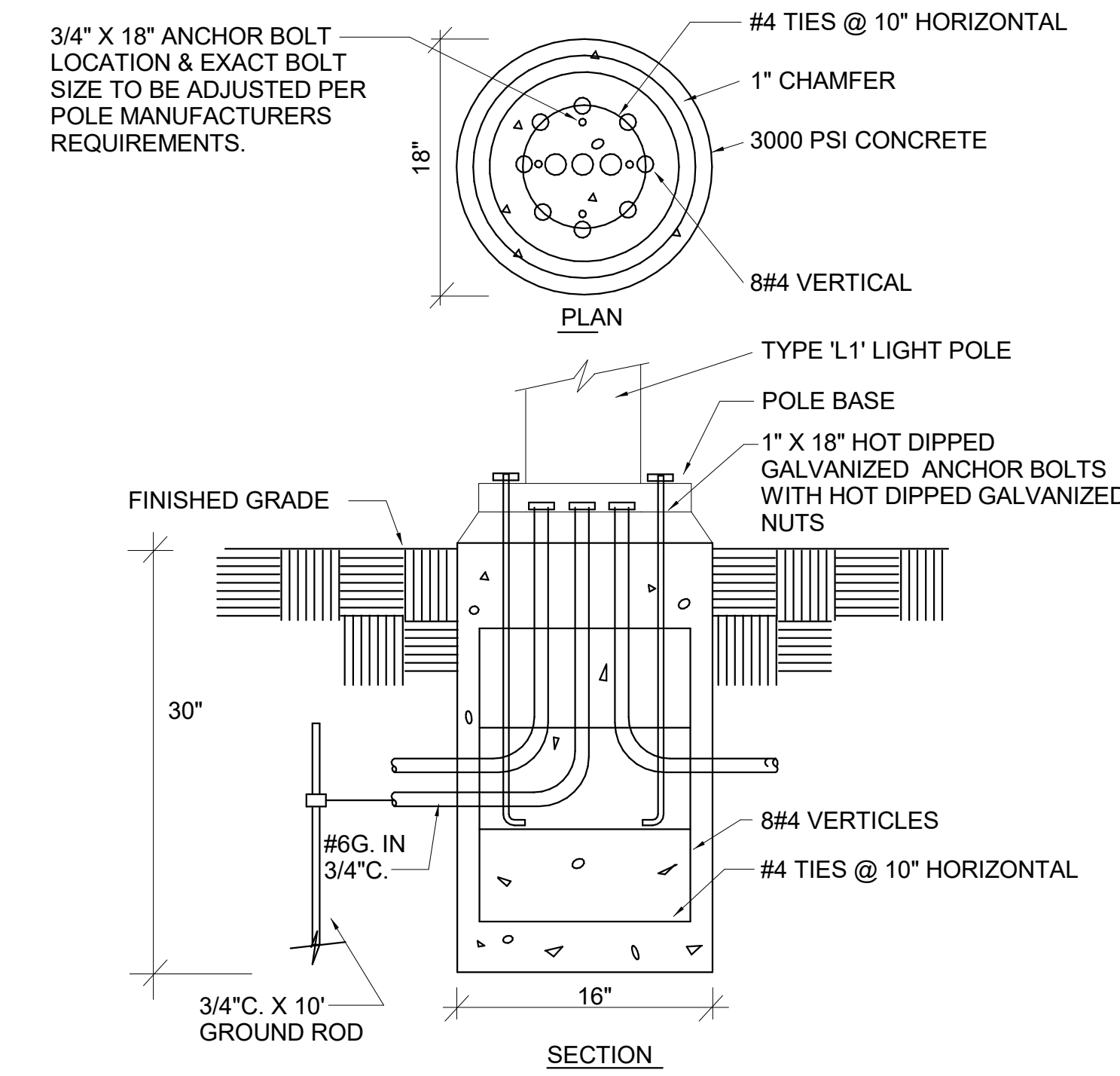
SCHEDULES
AND COMM
RISER



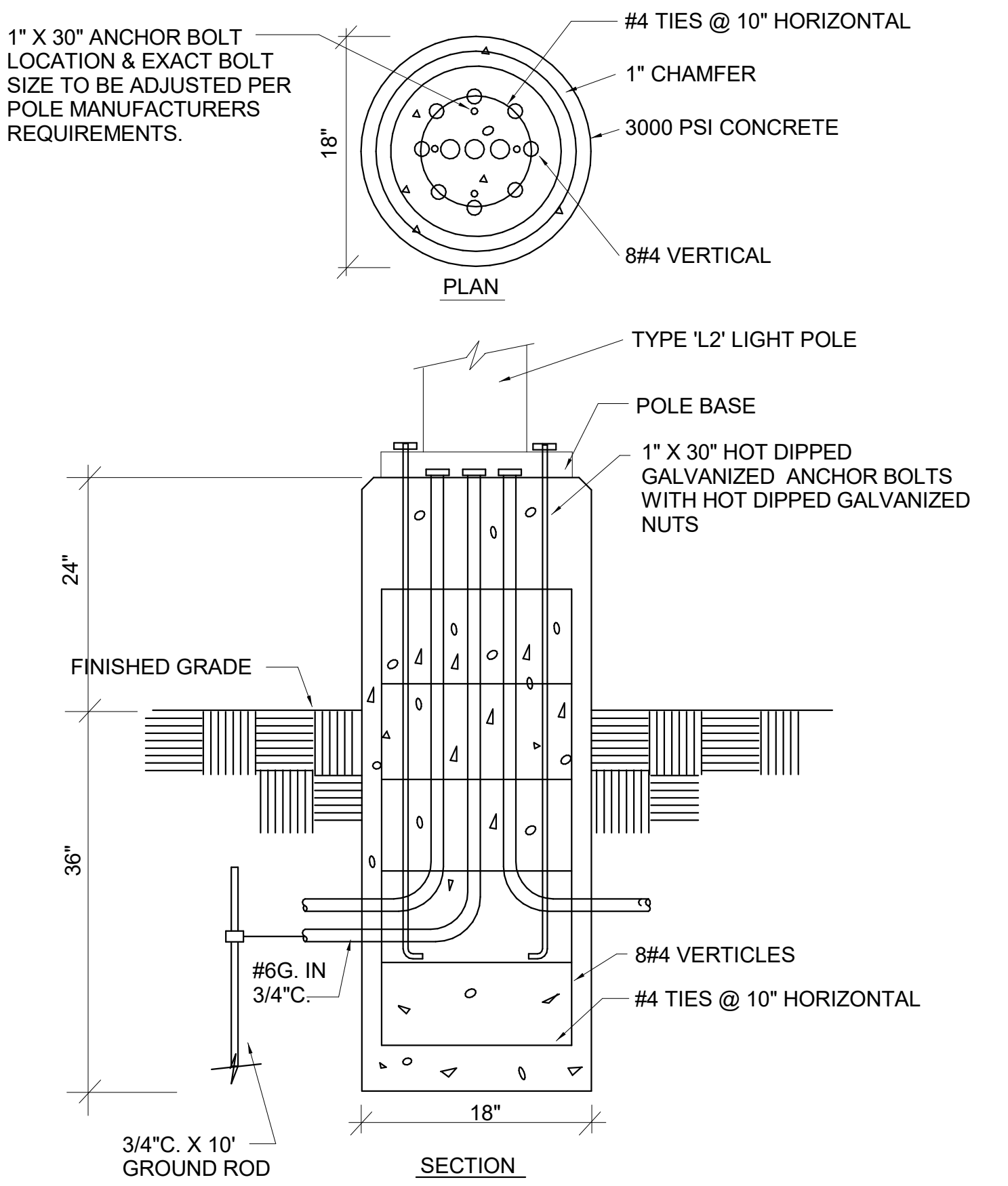
LAKE MYRA COUNTY PARK
Wake County, NC

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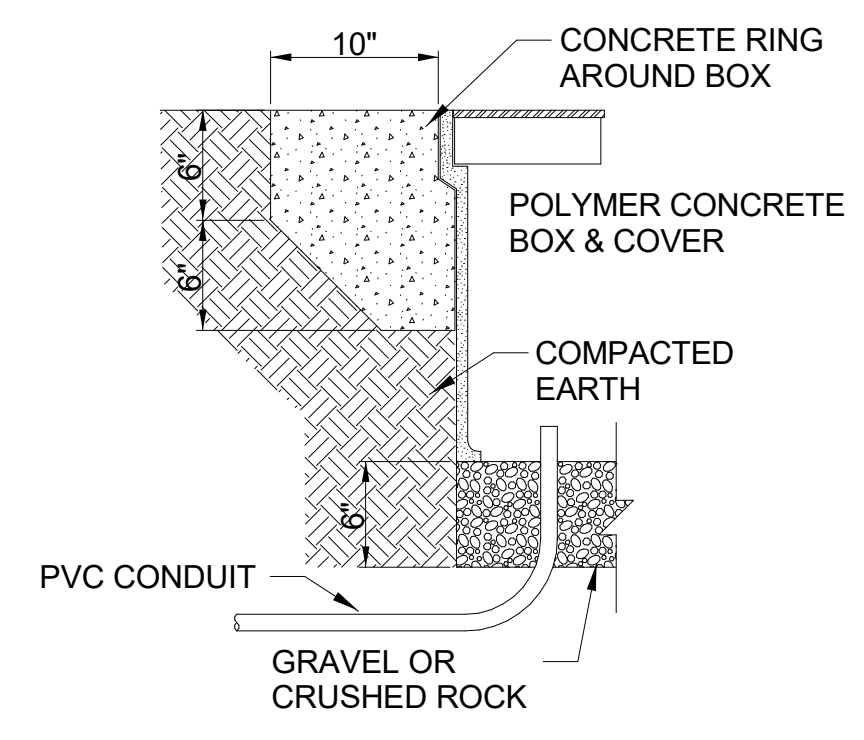
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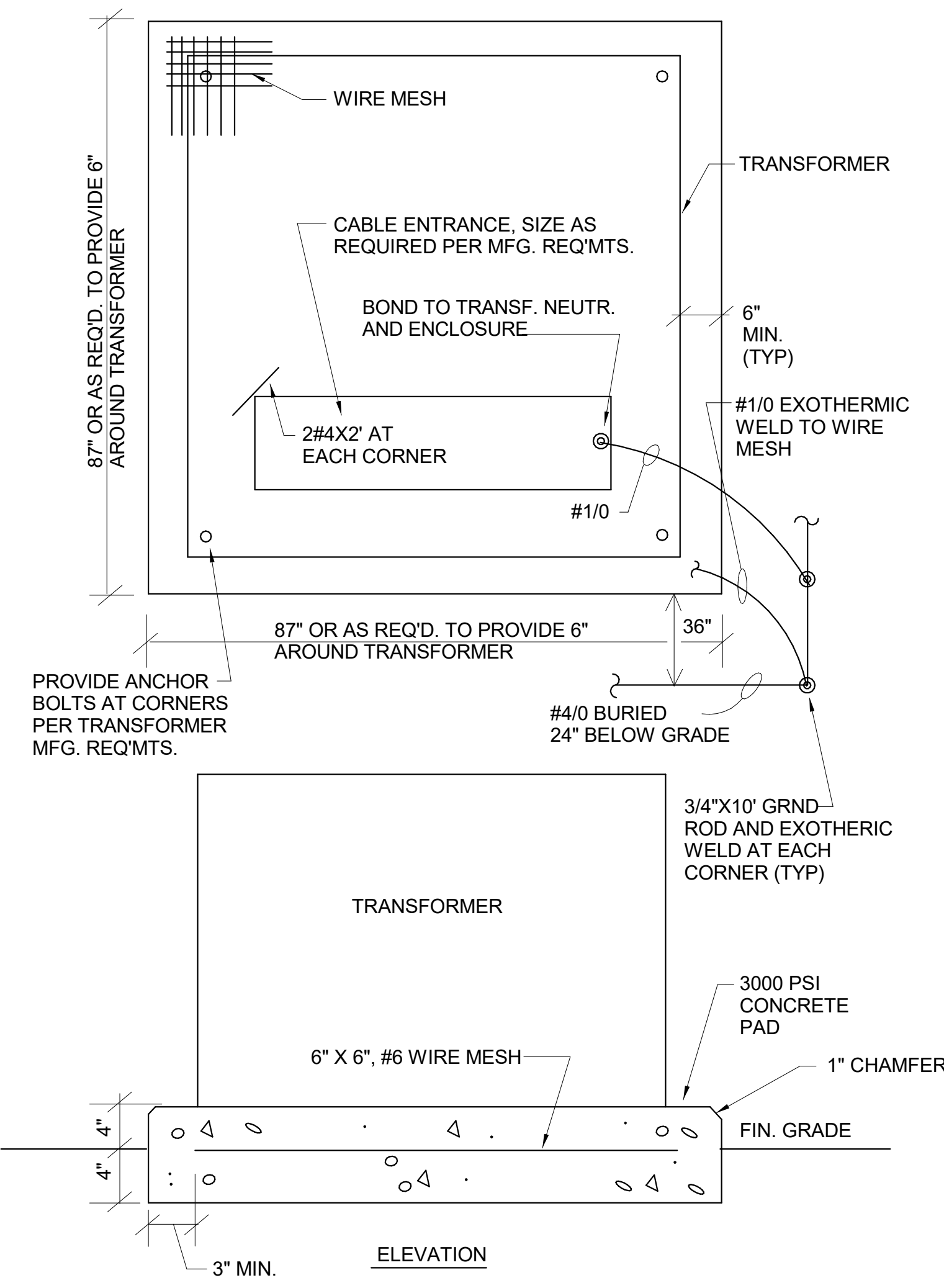
1 FLUSH POLE BASE DETAIL
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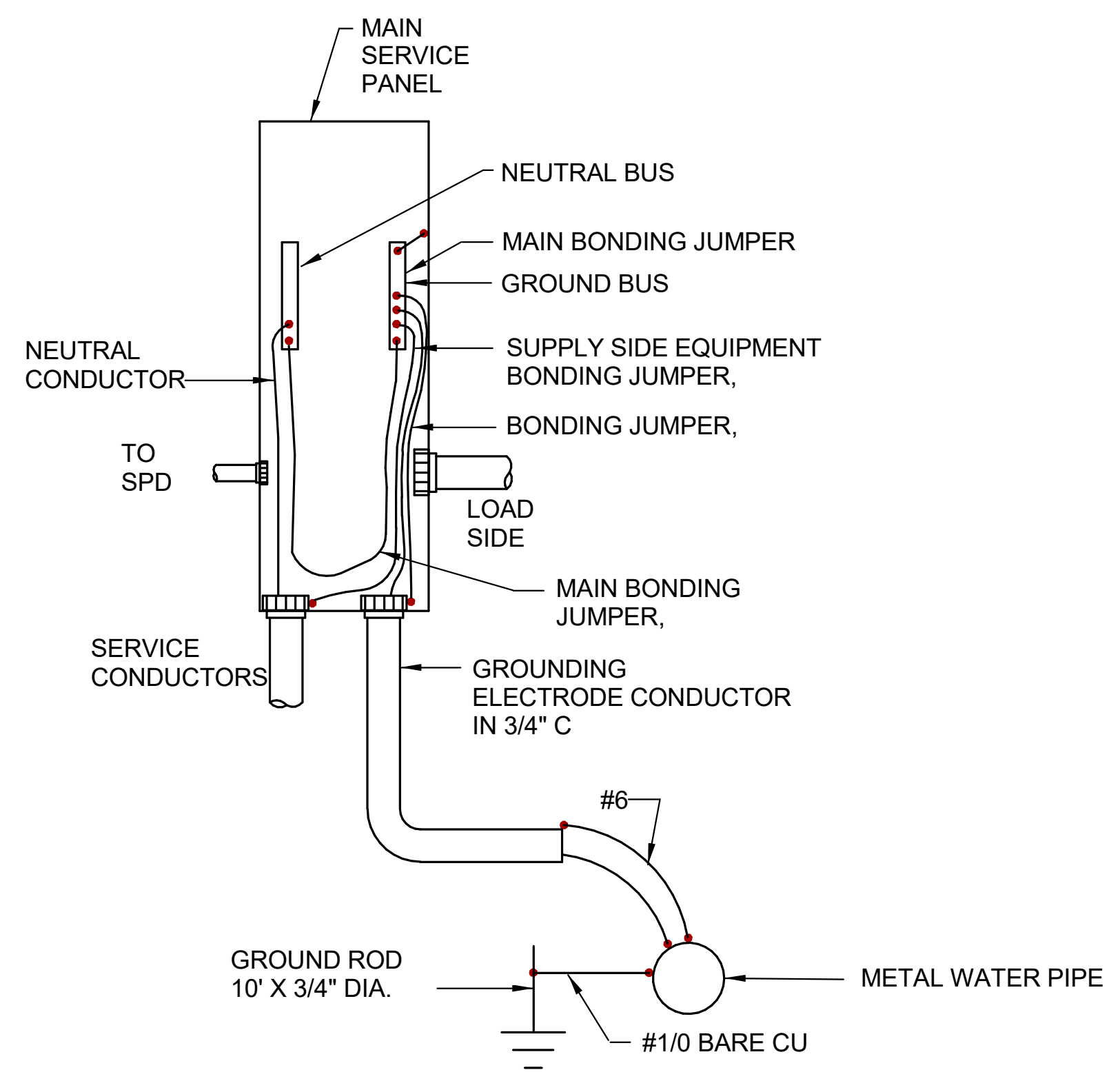
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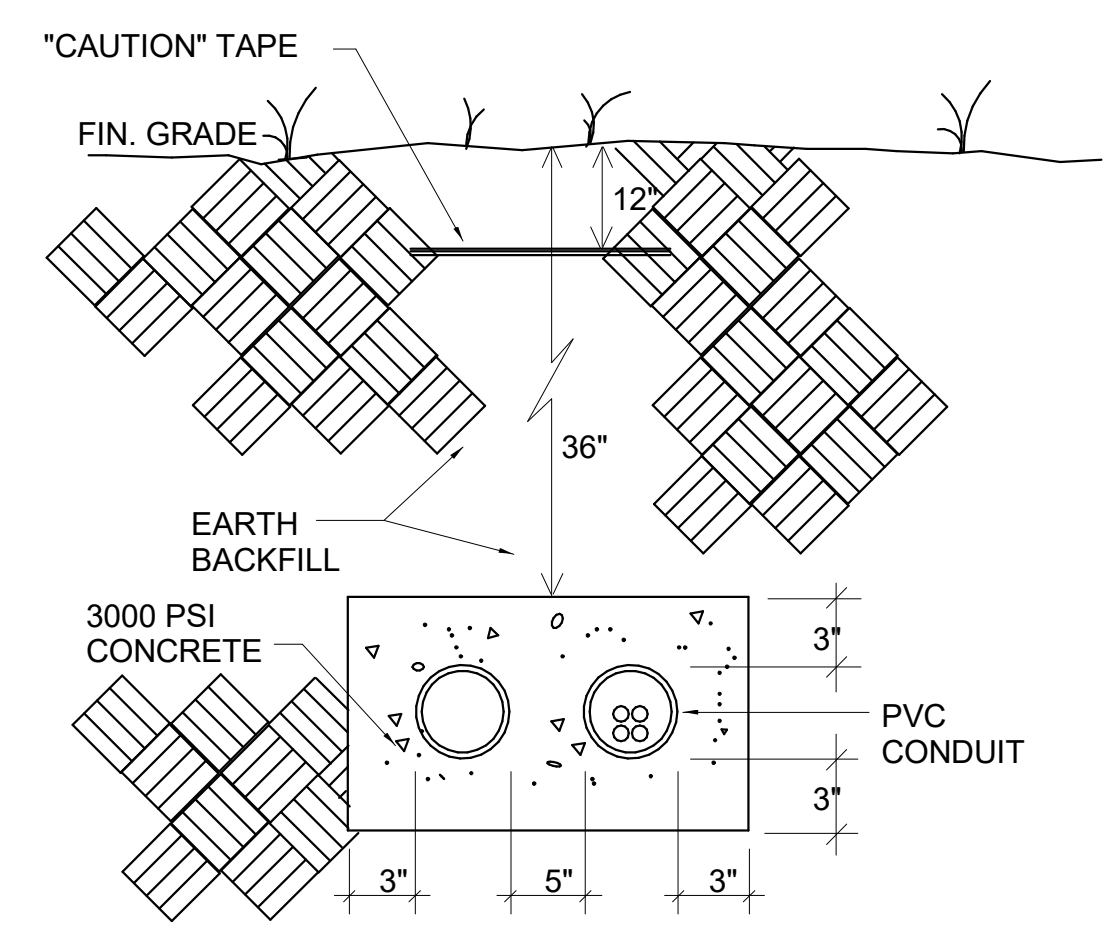
3 HANDHOLE INSTALLATION DETAIL
NOT TO SCALE.



4 TRANSFORMER PAD DETAIL
NOT TO SCALE.



5 SERVICE GROUNDING DETAIL
NOT TO SCALE.



6 DUCT BANK SECTION
NOT TO SCALE.

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DETAILS

NORTH CAROLINA
PROFESSIONAL
Signed: 11/24/2026
ROBERT E. EGAN
1/24/2026

LAKE MYRA COUNTY PARK
Wake County, NC

REVISIONS	

Date: 07/27/26
WS-E501