

# CAPE OVERLOOK POOL HOUSE

LILLINGTON, NORTH CAROLINA



## ABBREVIATIONS LIST

ATOS	ABOVE TOP OF SLAB
AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
BM	BEAM
BET	BETWEEN
BLK	BLOCKING
BD	BOARD
BLDG	BUILDING
BHD	BULKHEAD
BTS	BELOW TOP OF SLAB
CAB	CABINET
CLG	CEILING
CT	CERAMIC TILE
CTR	CENTER
CLR	CLEAR(ANCE)
CLS	CLOSET
CL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CONST	CONSTRUCTION
CJ	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLITION
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COLLER
ELEV	ELEVATION
ENCL	ENCLOSE(URE)
EQ	EQUAL
EX	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FF	FINISHED FLOOR
FIN	FINISH(ED)
FA	FIRE ALARM
FC	FLOORING CHANGE
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
FR	FIRE RATED(ING)
FL	FLOOR(ING)
FD	FLOOR DRAIN
FT	FULLY TEMPERED
FUR	FURRING
GA	GAUGE
GWB	GYPSUM WALL BOARD
HORZ	HORIZONTAL
H&V	HORIZONTAL AND VERTICAL
HR	HOUR
INCL	INCLUDE(D)ING
ID	INSIDE DIAMETER
INSUL	INSULATE(D)ION
INT	INTERIOR
ISG	INSULATED SAFETY GLAZING
JC	JANITORS CLOSET
KD	KNOCK DOWN
JT	JOINT
KIT	KITCHEN
LBL	LABEL
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LT	LIGHT
LG	LONG LENGTH
MFR	MANUFACTURER
MO	MASONRY OPENING
MTL	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MOV	MOVABLE
MUL	MULLION
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OA	OVERALL
AH	OVERHEAD
PTD	PAINTED
JPR	PAIR
PBD	PARTICLE BOARD
PTN	PARTITION
PERF	PERFORATED
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PWD	PLYWOOD
PT	PAPER TOWEL DISPENSER/DISPOSAL
PT	PRESSURE TREATED
PT	POST TENSIONED
PROJ	PROJECTED(ION)
QT	QUARRY TILE
RAD, R	RADIUS
REF	REFERENCE
REINF	REINFORCE(D)ING
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
R	RISER
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
SND	SANITARY NAPKIN DISPENSER
SR	SANITARY NAPKIN RECEPTACLE
SCHED	SCHEDULE
SD	SOAP DISPENSER
SG	SAFETY GLAZING
SH	SHELF, SHELVING
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION, SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
THK	THICKENS
THRES	THRESHOLD
TP	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
T	TREAD
TOS	TOP OF SLAB
TYP	TYPICAL
UC	UNDERCUT
UNF	UNFINISHED
UNOT	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VB	VINYL BASE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
WC	WALL COVERING
WP	WATERPROOFING
W	WITH
W/O	WITHOUT
WD	WOOD

### CAPE OVERLOOK POOL HOUSE SHEET INDEX

ARCHITECTURAL						STRUCTURAL					
SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE
G000			COVER SHEET, SHEET INDEX & BUILDING TABULATIONS	A100			POOL HOUSE FLOOR PLAN & ROOF PLAN	S101			FOUNDATION & RAMING PLANS
G001			GENERAL PROJECT NOTES	A200			POOL HOUSE ELEVATIONS AND WALL SECTIONS	S201			FOUNDATION DETAILS
G002			GENERAL PROJECT NOTES	A400			POOL HOUSE ENLARGED PLANS & INTERIOR ELEVATIONS	S301			FRAMING DETAILS
G003			ACCESSIBILITY REQUIREMENTS	A600			ENLARGED DOOR & WINDOW DETAILS	S401			GENERAL NOTES
G004			ARCHITECTURAL SITE PLAN								
G010			POOL HOUSE CODE SUMMARY & LIFE SAFETY PLAN								
G015			UL DETAILS								
G016			UL DETAILS								
G020			ASSEMBLY TYPES								

### CAPE OVERLOOK POOL HOUSE SHEET INDEX

PME - PLUMBING				PME - MECHANICAL				PME - ELECTRICAL			
SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE
P1			PLUMBING NOTES	M1			MECHANICAL PLAN	E1			ELECTRICAL NOTES
P2			SANITARY & DOMESTIC SUPPLY PLAN					E2			LIGHTING AND POWER PLAN
P3			PLUMBING RISERS								

### CAPE OVERLOOK - BUILDING TABULATION

BUILDING TYPE	BUILDING DESCRIPTION	UNITS PER BLDG	UNIT MIX	TOTAL HEATED SQFT. (PER BUILDING CODE)	GROSS SQFT (PER BUILDING CODE, TOTAL AREA UNDER ROOF)	# OF BLDGS ON SITE	TOTAL NET SQFT	TOTAL GROSS SQFT
*POOL HOUSE	1-STORY BLDG	N/A	N/A	413	637	1	413	637

\* = WINTERIZED/FREEZE PROTECTION BUILDING

## PROJECT SCOPE

- SITE AMENITY BUILDINGS INCLUDE A POOL HOUSE

## STATE OF NORTH CAROLINA ADOPTED CODES

- 2018 NORTH CAROLINA STATE BUILDING CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: FIRE PREVENTION CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2009 ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

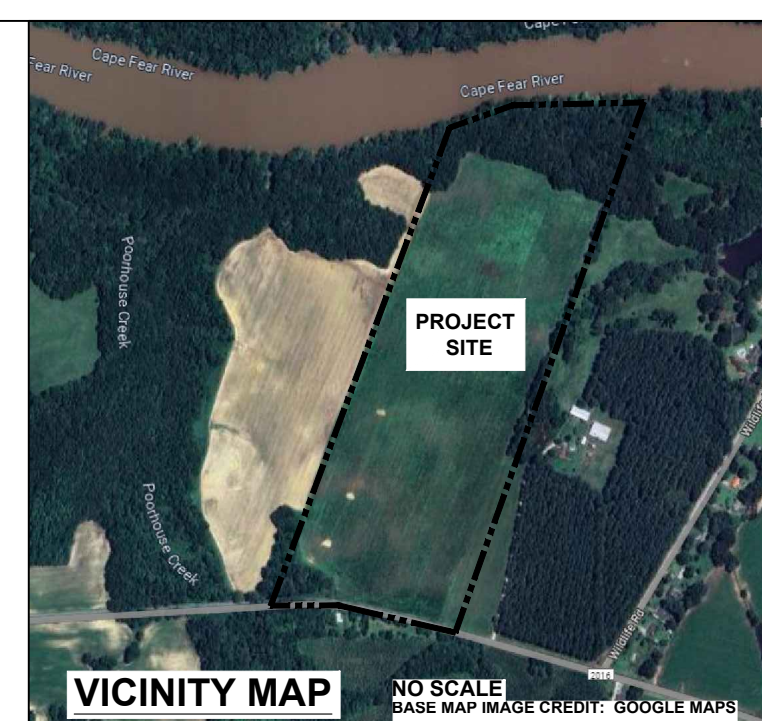
## PROJECT TEAM

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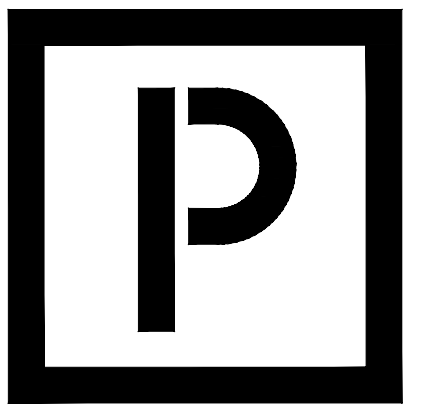


## MATERIAL GRAPHICS

	WOOD BLOCKING
	FINISH WOOD
	PLYWOOD
	ACOUSTIC TILE CEILING
	GYPSUM WALL BOARD
	BATT INSULATION
	RIGID OR SEMI RIGID INSULATION
	STEEL
	CONCRETE
	CMU
	STONE / GRAVEL
	EARTH
	ALUMINUM

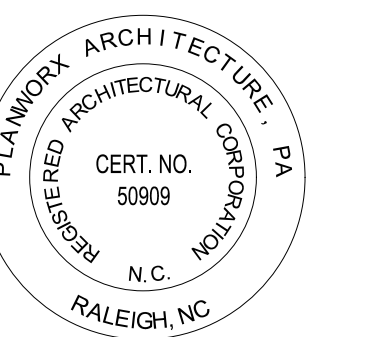
## ARCHITECTURAL SYMBOLS

	BUILDING ELEVATION
	WALL SECTION
	BUILDING SECTION
	ENLARGED DETAIL REFERENCE
	INTERIOR ELEVATION
	DOOR MARK
	WINDOW MARK
	FLOOR ELEVATION REFERENCE OR SPOT ELEVATION
	REVISION NUMBER
	DIMENSION TO EDGE



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Cape Overlook Pool House

Triangle Land Partners

Lillington, NC

Issued for Permit (10-25-24)



10-25-2024

PROGRESS DATE: 10-25-2024

PROJECT NO: 002824

DRAWN BY: BB

CHECKED BY: DS

SHEET TITLE: Project Cover Sheet Sheet Index & Tabulations

SHEET NUMBER: G000

AIR SEALING NOTES - NORTH CAROLINA

NOTE: THIS LIST DOES NOT COVER ALL AIR SEALING LOCATIONS NOR DOES IT ADDRESS TECHNIQUES. SEE NC STATE BUILDING CODE: ENERGY CONSERVATION CODE, 2018 EDITION FOR ADDITIONAL INFORMATION. OTHER CODE PROVISIONS MAY BE APPLICABLE AS WELL.

1. PLATE AND WALL PENETRATIONS BY PLUMBING, ELECTRICAL, PHONE, CATV, ETC.
2. TUB/SHOWER ON OUTSIDE OR ATTIC WALL.
3. WINDOW AND DOOR ROUGH OPENINGS.
4. AIRTIGHT, IC-RATED RECESSED LIGHTS AND ELECTRICAL FIXTURES EXPOSED TO ATTIC.
5. EXTERIOR WALL EXHAUST FAN TERMINATIONS.
6. CEILING MOUNTED BATH FANS, SPEAKERS, ETC.
7. BOTTOM PLATE AND TOP PLATE.
8. SEAMS BETWEEN RIGID EXTERIOR SHEATHING.
9. BAND AREA BETWEEN FLOORS, CONDITIONED SPACE AND ATTIC.
10. MECHANICAL EQUIPMENT AND DUCTWORK CHASES IN ATTICS, CRAWLSPACES.
11. CEILING/CRAWLSPACE ELECTRICAL BOXES.
12. CEILING/CRAWLSPACE HVAC BOOTS.
13. SHOWER AND TUB DRAIN LINE.
14. FIREPLACE INSERTS.
15. ATTIC KNEEWALL DOORS.
16. JOIST CAVITIES UNDER ATTIC KNEEWALLS.
17. TRANSITION BETWEEN CEILING HEIGHTS.
18. ATTIC SCUTTLE HATCH.
19. WALL PENETRATIONS OF MECHANICAL COMBUSTION CLOSETS.
20. THRESHOLDS AT MECHANICAL COMBUSTION CLOSETS.
21. BAND JOIST EXPOSED TO EXTERIOR.
22. EXTERIOR WALL PENETRATIONS FOR REFRIGERATION LINES, CONDENSATE LINE, ETC.
23. DOORS AND WINDOWS BETWEEN UNHEATED AND HEATED SPACE SHALL BE WEATHER-STRIPPED AROUND THEIR PERIMETER TO LIMIT AIR LEAKAGE WHEN CLOSED.
24. FOAM GASKETS SHALL BE USED ON ALL RECEPTACLES, SWITCHES, AND OTHER UTILITY BOXES ON EXTERIOR WALLS.
25. CAULK AND SEAL OPENINGS IN ELECTRICAL BOXES AND WHERE BOX MEETS DRYWALL WITH AN APPROVED SEALANT.

ACCESSIBILITY NOTES - NORTH CAROLINA

THE FOLLOWING ARE GENERAL NOTES FOR ACCESSIBILITY REQUIREMENTS, IT IS NOT AN ALL-ENCOMPASSING LIST NOR DOES IT ADDRESS SPECIFIC TECHNIQUES. THESE NOTES ARE

INTENDED AS A GENERAL OUTLINE. ENTIRETY OF BUILDING, SPACES, RESIDENTIAL UNITS, ETC. SHALL MEET THE 2018 NORTH CAROLINA STATE BUILDING CODE, ACCESSIBILITY CODE, MOST CURRENT VERSION, INCLUDING AMENDMENTS, IN ADDITION, ANY AND ALL APPLICABLE LOCAL, STATE, FEDERAL, ETC. CODES SHALL APPLY IN JURISDICTION OF THE PROJECT.

1. ACCESSIBLE ENTRANCES TO BE PROVIDED WITH SIGNS WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. ALL HORIZONTAL WALKING SURFACES TO BE CONTINUOUS AND WITHOUT ABRUPT VERTICAL CHANGES EXCEEDING 1/4" MINIMUM. ALL HORIZONTAL WALKING SURFACES WILL BE MAINTAINED SLIP RESISTANT.
3. DOOR OPENING REQUIREMENTS SHALL COMPLY WITH ICC/ANSI 117.1 - 2009 SECTION 404.
4. THE FLOOR OR LANDING ON EACH SIDE OF AN EXIT DOOR WILL BE LEVEL AND CLEAR. THE LEVEL AREA WILL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 44" AND A LENGTH OPPOSITE OF 44", AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN A CLOSED POSITION.
5. MAXIMUM EFFORT TO OPERATE DOORS AND BLDG ENTRY GATES WILL NOT EXCEED 8.5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED/REQUIRED TO MEET THE ABOVE STANDARDS.
6. THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, WILL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALL THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL WILL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. THRESHOLDS WILL NOT EXCEED 1/2" IN TOTAL HEIGHT. VERTICAL FACES WILL NOT EXCEED 1/4". CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" WILL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGE IN LEVEL GREATER THAN 1/2" WILL BE ACCOMPLISHED BY MEANS OF A RAMP.
8. STAIRWAY TREADS MUST BE SLIP RESISTANT WITH, ROUNDED OR BEVELED EDGES AND NO ABRUPT EDGES AT THE NOSE.
9. THE FLOOR OR LANDING IMMEDIATELY OUTSIDE THE ENTRY MAY BE SLOPED UP TO 1/8" PER FOOT IN THE DIRECTION AWAY FROM THE BUILDING FOR DRAINAGE.
10. PET WASTE STATIONS SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND LOCATED PER ICC/ANSI A117.1 - 2009 SECTION 308.
11. ALL MAILBOXES/PARCEL BOXES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND MEET/LOCATED PER ICC/ANSI 117.1 -2009 SECTION 308 AND U.S. POSTAL SERVICE STD-4C. CONFIRM WITH THE LOCAL USPS RESPONSIBLE FOR MAIL SERVICE TO/FROM THE SITE.
12. ACCESSIBLE RAMP CROSS SLOPES SHALL NOT EXCEED A MAXIMUM 2% CROSS SLOPE.
13. ACCESSIBLE RAMP SLOPES SHALL NOT EXCEED A MAXIMUM 8.33% SLOPE AND PROVIDE A LEVEL LANDING AT THE TOP AND BOTTOM OF THE RAMP, AT A MINIMUM THE LANDING SHALL BE 60" X WIDTH OF RAMP RUN.
14. ACCESSIBLE WALKING SURFACE SLOPES SHALL NOT EXCEED A MAXIMUM 5% SLOPE.

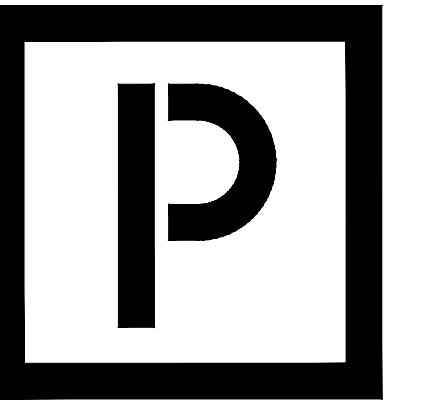
ACOUSTICAL NOTES - NORTH CAROLINA

THE FOLLOWING IS A GENERAL LISTING OF MINIMUM ACOUSTICAL RECOMMENDATIONS, IT IS NOT AN ALL-ENCOMPASSING LIST NOR DOES IT ADDRESS SPECIFIC TECHNIQUES. SEE DRAWINGS, AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. AT A MINIMUM, PROVIDE SOUND TRANSMISSION CONTROL PER NCSBC SECTION 1207 AND ANY AND ALL OTHER APPLICABLE CODES/REGULATIONS.

1. FIREPROOFING AT PENETRATIONS OF CONCRETE FLOORS MAY BE PROVIDED WITH LATEX OR SILICONE BASED INTUMESCENT SEALANT THAT CURES TO A 'RUBBER-LIKE' STATE, OR IF PERMITTED BY CODE, BY USING MINERAL WOOL SAFING. MATERIALS THAT SET-UP HARD ARE NOT PERMITTED.
2. WHERE BATHROOMS ARE ADJACENT TO SHARED WALLS BETWEEN DIFFERING UNITS, THE SHARED WALL CONSTRUCTION MUST EXTEND BEHIND BATHTUBS AND SHOWERS, SUBSTITUTING APPROPRIATE WATER-RESISTANT MATERIALS FOR THE GYPSUM BOARD AS PERMITTED AND APPLICABLE.
3. BATHTUBS, JACUZZI/AIR-JET TUBS, SHOWERS, TOILETS, DISHWASHERS, GARBAGE DISPOSALS, TRASH COMPACTORS, AND CLOTHES WASHERS AND DRYERS MUST BE ISOLATED FROM THE STRUCTURE:
  - A. THESE ITEMS, WHERE PRACTICAL, SHOULD NORMALLY REST ON TOP OF ISOLATED FLOOR SURFACES. IF THIS IS NOT PRACTICAL, NEOPRENE OR RUBBER MUST BE USED TO ISOLATE THEM.
  - B. IT MAY BE NECESSARY TO HAVE THE PORTION OF THE BATHROOM FLOORS UNDER TUBS AND SHOWERS INSTALLED PRIOR TO THE REST OF THE FLOOR SUCH THAT THE TUB AND SHOWER BASES CAN BE INSPECTED BEFORE THE REST OF THE FLOOR IS INSTALLED.
  - C. BATHTUBS, JACUZZI/AIR-JET (INCLUDING ANY ASSOCIATED MOTOR) AND SHOWER BASES NOT RESTING ON ISOLATED FLOORS MUST REST ON MINIMUM 10mm OR 3/8 INCH THICK 40 DUROMETER NEOPRENE OR RUBBER. SUCH MATERIAL MUST ALSO BE PLACED BETWEEN BATHTUBS AND WALLS UNLESS THE BATH TUB CAN BE KEPT AWAY FROM THE WALL (1/4 INCH GAP- NO DIRECT CONTACT). THIS MAY BE A SHEET OF REGUPOL 40 DUROMETER OR INDIVIDUAL PADS AT SUPPORT POINTS. EDGES MUST BE SEALED WITH SILICONE SEALANT RATHER THAN GROUT.

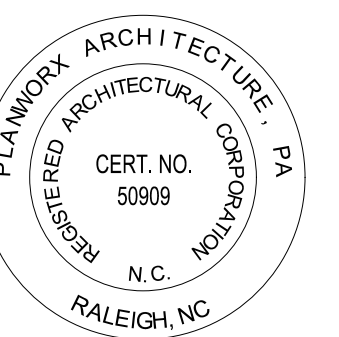
NOTE: IF 1/2 INCH CORK IS INSTALLED EVERYWHERE ELSE, IT IS ACCEPTABLE TO USE THE 1/2 INCH CORK INSTEAD OF THE 10mm 40 DUROMETER REGUPOL. HOWEVER, THINNER MATERIAL IS UNACCEPTABLE.

- D. IF THE SPECIFIED JACUZZI/AIR-JET TUB REQUIRES RIGID ATTACHMENT TO THE WALLS; HE WALLS MUST BE ATTACHED TO THE MAIN FLOOR THROUGH THE REGUPOL OR CORK WITH A RUBBER BUSHING - SUCH AS THE KINETICS KAI. THE TOP OF THE WALL MUST BE SUPPORTED FROM ABOVE WITH A SLIP TRACK; THIS ATTACHMENT TO THE FLOOR ABOVE MUST BE DONE WITH A RUBBER BUSHING -SUCH AS THE KINETICS KAI.
- E. NEOPRENE ISOLATION CUPS (MODEL BM FROM MASON INDUSTRIES) SHOULD BE USED UNDER THE FEET OF APPLIANCES THAT ARE NOT ON ISOLATED FLOORS.
- F. GARBAGE DISPOSALS MUST HAVE A FLEXIBLE CONNECTION TO THE SINK AND MUST DISCHARGE THROUGH A FLEXIBLE PIPE TO THE DRAIN.
- G. TOILETS MUST REST ON AN ISOLATED FLOOR AND SHOULD BE BOLTED TO A FLANGE ON THE WASTE PIPING SUCH THAT THE BOLTS AND PIPING DO NOT CONTACT THE FLOOR STRUCTURE. THIS MAY REQUIRE OVERSIZED HOLES IN THE FLOOR OR GROMMETS IN THE FLOOR. IF IT IS NECESSARY TO BOLT THE TOILET TO THE STRUCTURAL FLOOR, SOFT GROMMETS SHALL BE USED TO ISOLATE THE BOLTS FROM THE TOILET.
4. HORIZONTAL WASTE PIPE TO BE SUPPORTED ON HALF-INCH COMPRESSED FELT OR NEOPRENE, OR NEOPRENE HANGERS CAN BE USED. VERTICAL SUPPORTS TO BE MADE FROM WAFFLE-PATTERN OR RIBBED 40 DUROMETER NEOPRENE PADS APPROPRIATELY SIZED FOR THE LOAD AND PLACED UNDER BRACKETS ATTACHED TO THE PIPE AT FLOORS.
5. ALL PIPING SHALL BE CAREFULLY CENTERED IN HOLES SO THAT IT DOES NOT CONTACT FRAMING OR CONCRETE. DO NOT ATTEMPT TO PLACE ISOLATION MATERIAL (OTHER THAN AS NEEDED FOR FIREPROOFING) AROUND PIPES WHERE THEY PASS THROUGH STRUCTURE.
6. ANY BEDROOM, DINING, OR LIVING ROOM CEILING OR WALL CONTAINING SUPPLY PIPING SHALL HAVE THE PIPES FULLY COVERED WITH CLOSED-CELL FOAM PIPE INSULATION. INSULATION TO BE ARMAFLEX AS MANUFACTURED BY ARMACELL. PIPE INSULATION SIZE TO BE THE SAME SIZE AS INDICATED FOR THE PIPE ISOLATION.
7. WALL CAVITIES CONTAINING WASTE PIPES SHALL HAVE THE SPACE BETWEEN THE PIPE AND GYPSUM BOARD FILLED WITH FIBERGLASS BATT INSULATION ON EACH SIDE. BATT TO BE 1 INCH THICK OR 2 1/2 INCH THICK, SLIGHTLY COMPRESSED (NOT OVERLY COMPRESSED), ON EACH SIDE OF PIPE. ALTERNATIVELY, THE PIPING IS TO BE FULLY COVERED WITH CLOSED-CELL FOAM PIPE INSULATION TO BE ARMAFLEX AS MANUFACTURED BY ARMACELL. PIPE INSULATION TO BE THE SAME SIZE AS INDICATED FOR PIPE ISOLATION. THERE SHALL BE A MINIMUM OF ONE (1) INCH SPACE BETWEEN PIPING AND GYPSUM WALL BOARD.
8. CEILING CAVITIES CONTAINING WASTE PIPES SHALL PROVIDE A REASONABLE CAVITY SPACE, ISOLATE THE PIPING FROM THE STRUCTURE, AND HAVE INSULATION BATTS IN THE CAVITY. THERE SHALL BE A MINIMUM OF ONE (1) INCH SPACE BETWEEN PIPING AND GYPSUM WALL BOARD.
9. ROOF DRAIN PIPING SHALL BE PROPERLY ISOLATED FORM THE STRUCTURE. PIPING SHALL BE ATTACHED, VIA APPROPRIATE ISOLATION BRACKETS AT EACH FLOOR/ROOF LEVEL. SIZE ISOLATION BRACKETS PER THE LOAD(S) TO ALLOW FOR ONE TO TWO TENTHS OF AN INCH DEFLECTION.
10. ALL REFRIGERANT PIPING SHOULD BE ROUTED WHEREVER POSSIBLE SO IT DOES NOT PASS-THROUGH BEDROOM WALLS OR OVER THE CEILING OF BEDROOMS, ESPECIALLY IF IT IS THE REFRIGERANT PIPING FOR ANOTHER UNIT. IDEALLY, THE PIPING SHALL BE IN A WALL OF THE MECHANICAL EQUIPMENT CLOSET BUTTING ANOTHER CLOSET. A BATHROOM OR KITCHEN WALL IS A BETTER LOCATION THAN A BEDROOM WALL. CONTRACTOR TO PROVIDE OWNER AND ARCHITECT WITH PROPOSED ROUTING OF PIPING FOR REVIEW PRIOR TO FABRICATION/INSTALLATION.
11. ALL ABOVE GROUND WASTE PIPING- SERVICING UNITS AND BUILDING- SHALL BE CAST IRON.
12. WATER HAMMER ARRESTERS MUST BE INSTALLED AT THE ENDS OF LONG RUNS AND AT DISHWASHERS AND CLOTHES WASHERS.
13. PERIMETER OF SHARED PARTY WALL IS CRITICAL. ACOUSTICAL SEALANT SHALL BE INSTALLED ACCORDING TO THE DETAIL(S) PROVIDED TO ENSURE AN AIRTIGHT SEAL. SEAL AROUND ALL ELECTRICAL, PLUMBING AND MECHANICAL PENETRATIONS.
14. WALL PANELS TO BE STAGGERED TO AVOID BACK-TO-BACK BUTT JOINTS. SPECIFICALLY FOR PARTY WALLS.
15. LIGHT SWITCHES AND RECEPTACLES SHOULD NOT BE CONSTRUCTED BACK-TO-BACK. WHEREVER POSSIBLE STAGGER 'BOXES' SUCH THAT THEY ARE NOT LOCATED IN THE SAME STUD BAY. SPECIFICALLY FOR APARTMENT UNIT PARTY WALLS.
16. KEEP AIR CAVITY OF PARTY WALLS CLEAN AND FREE OF CONSTRUCTION DEBRIS.
17. ALL RECESSED LIGHTING TO HAVE SEALED BACKS. NO RECESSED LIGHTING TO BE 'OPEN' TO PLENUM SPACE.
18. MINIMIZE THE NUMBER OF PIPE TRANSITIONS AND LATERAL RUNS IN DROPPED CEILINGS.
19. IF KITCHEN OR BATHROOM CABINETS ARE LOCATED ON TENANT SEPARATION WALLS, SOFT BUMPERS ON ALL THE CABINETS DRAWERS AND DOORS ARE TO BE INSTALLED.
20. CONTACT BETWEEN MEPPF COMPONENTS



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ARCHITECTURE

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Cape Overlook Pool House

Triangle Land Partners

Lillington, NC

Issued for Permit (10-25-24)



10-25-2024

PROGRESS DATE:	ISSUE DATE:	REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
10-25-2024					

PROJECT NO: 002824

DRAWN BY: BB

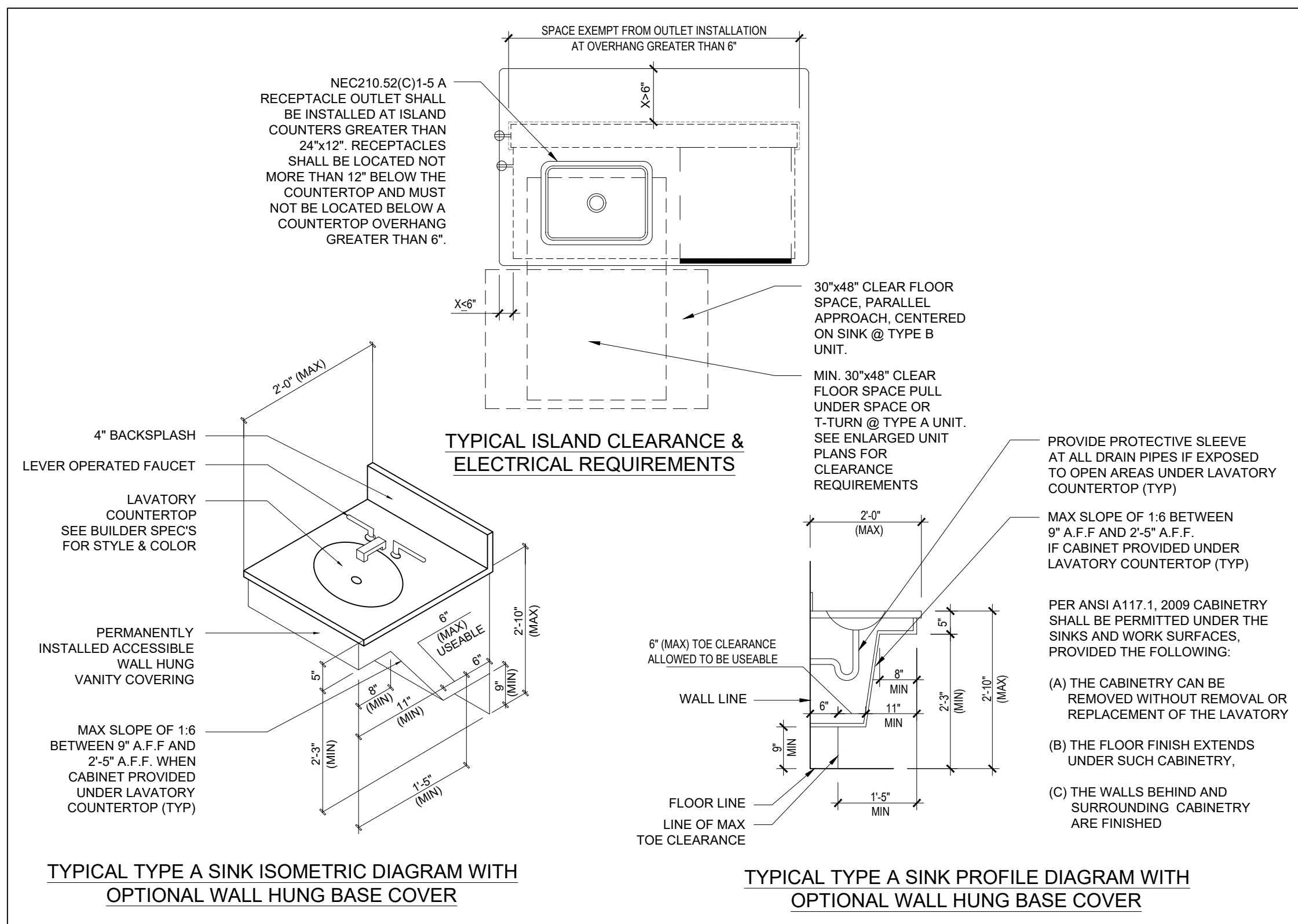
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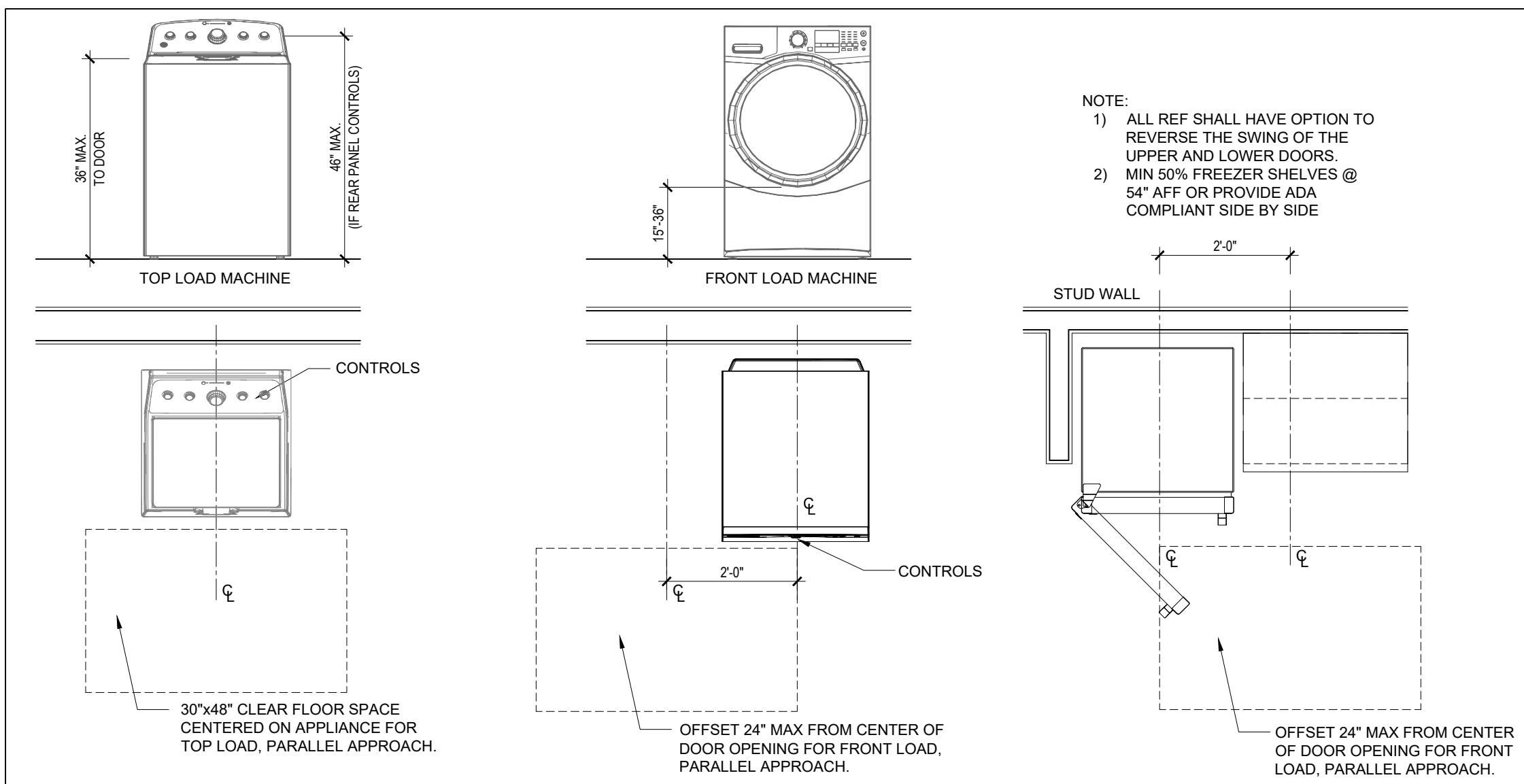
SHEET NUMBER: G001

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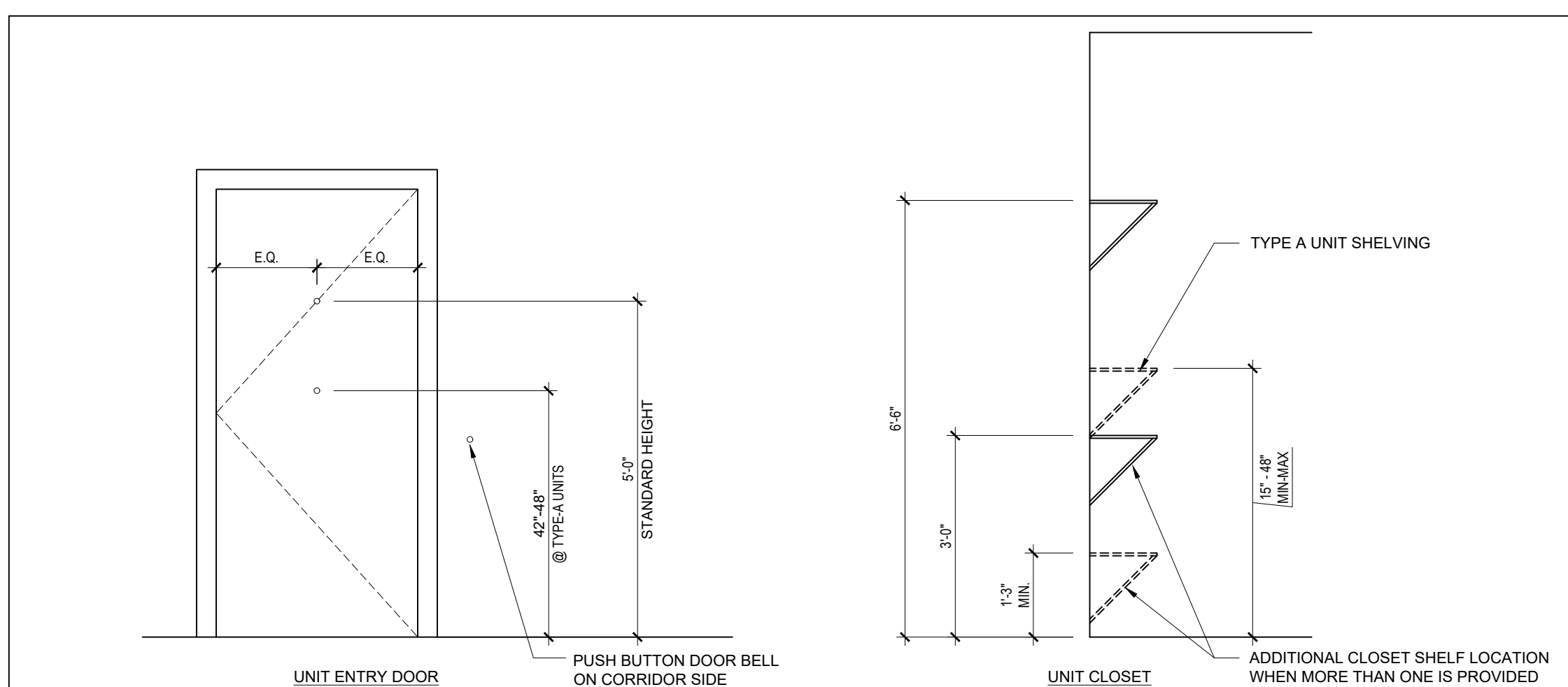




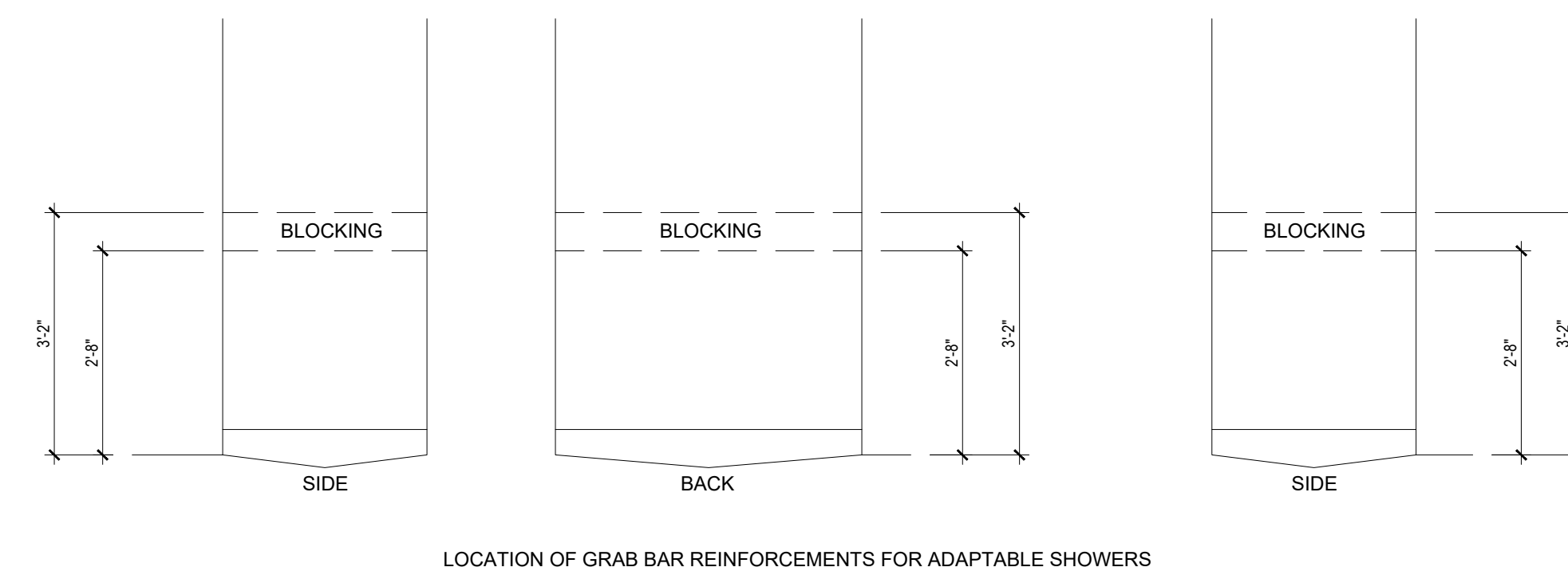
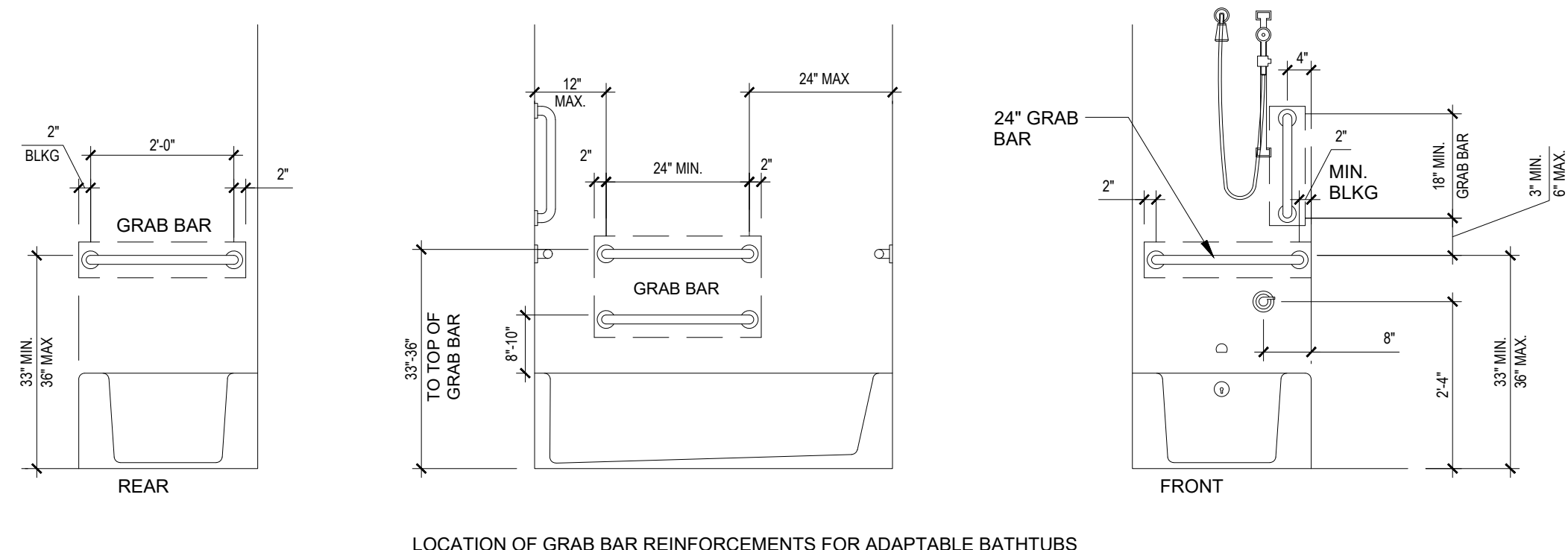
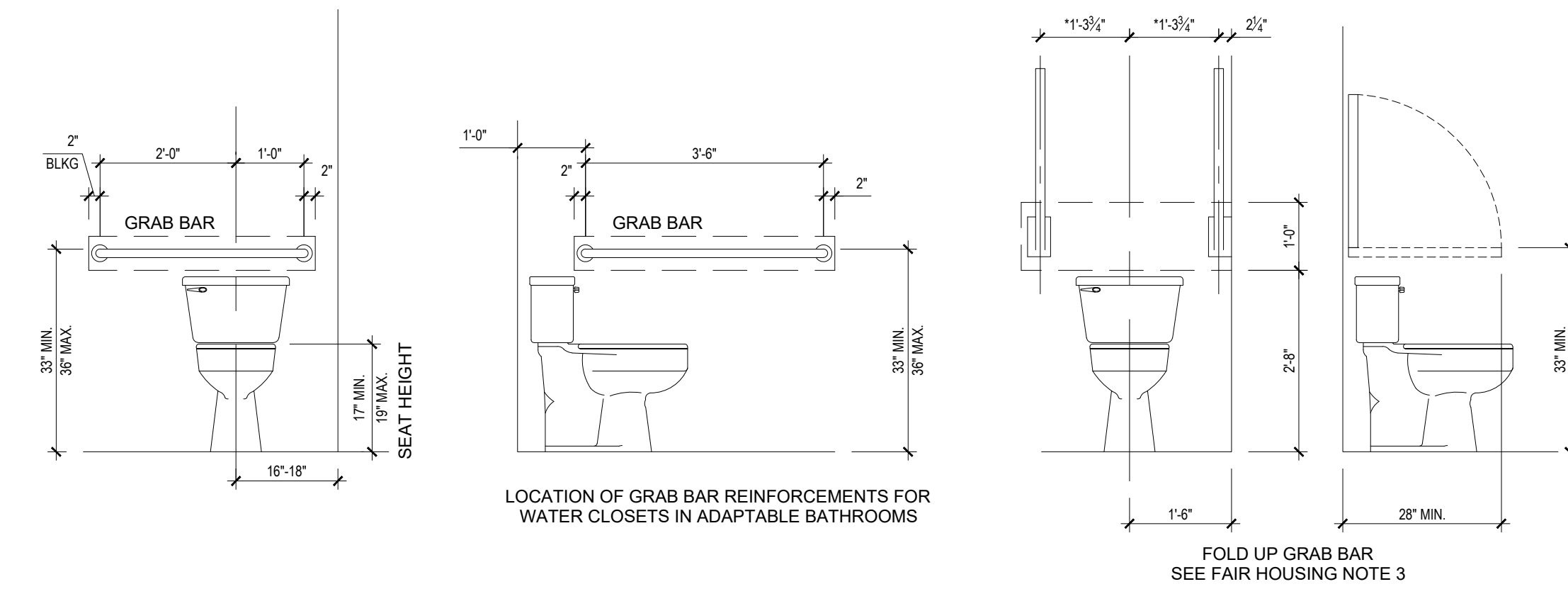
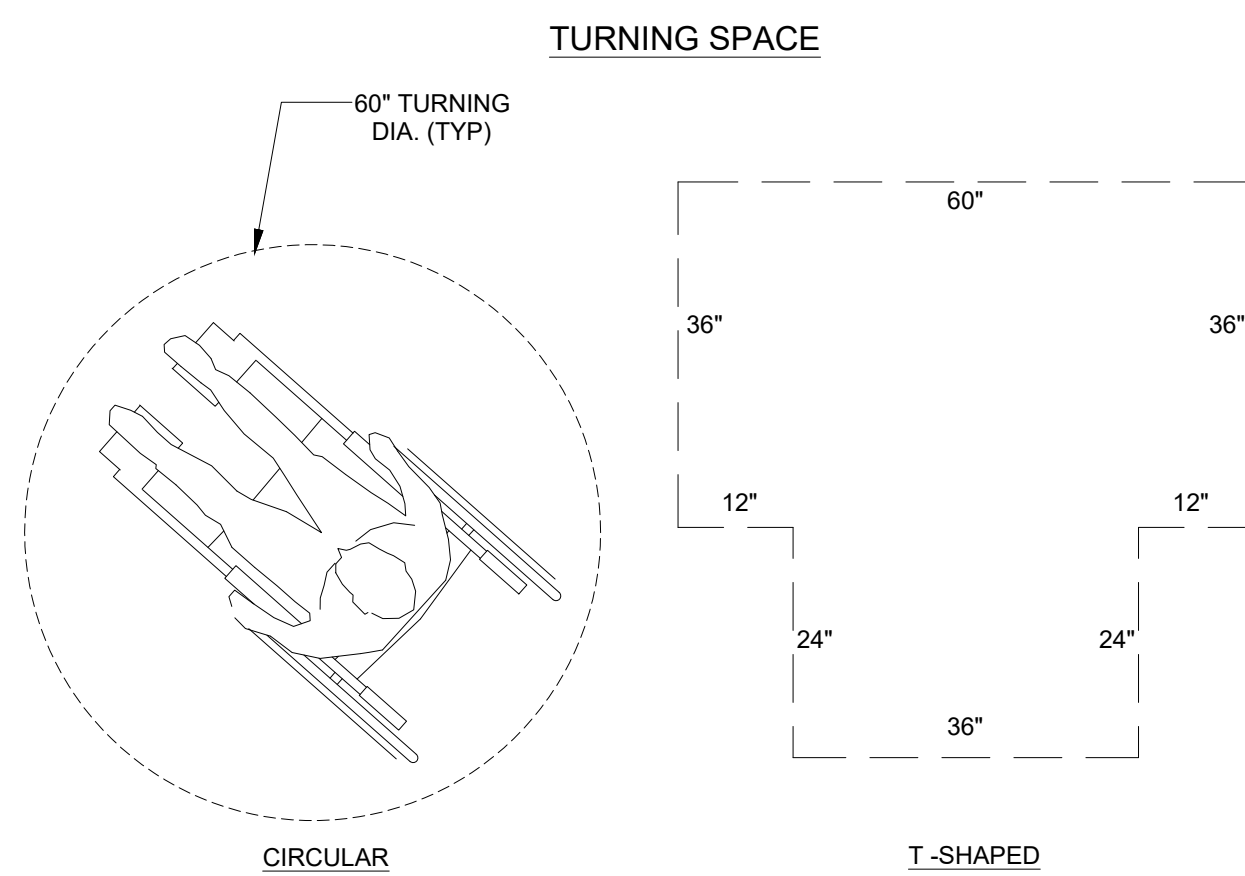
**SINK & ISLAND REQUIREMENTS**



**ACCESSIBLE APPLIANCE REQUIREMENTS**



**SHELVING & DOOR PEEP HOLE MOUNTING REQUIREMENTS**



NOTE: THE AREAS OUTLINED IN DASHED LINES REPRESENT LOCATIONS OF BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS.

BLOCKING SHALL ACCOMMODATE GRAB BARS WHICH WILL BE MOUNTED AT 33"-36" AFF

**TYPICAL BLOCKING REQUIREMENTS AND ACCESSIBILITY NOTES**

**ACCESSIBILITY REQUIREMENTS**

- ALL GROUND FLOOR UNITS SHALL MEET THE REQUIREMENTS OF TYPE B UNITS PER THE NORTH CAROLINA STATE BUILDING CODE.
- ALL UNITS ON FLOORS SERVED BY AN ELEVATOR SHALL MEET THE REQUIREMENTS OF TYPE B UNITS PER THE NORTH CAROLINA STATE BUILDING CODE.
- SEE CIVIL DRAWINGS FOR ACCESSIBLE ROUTES WITHIN THE SITE AND ROUTE TO THE BUILDING.
- PROVIDE 12" MIN. CLEARANCE ON PUSH SIDE OF ALL UNIT ENTRY DOORS.
- PROVIDE "FINGER PULL-U-SHAPED" HARDWARE ON ALL KITCHEN AND BATHROOM CABINETS PER ANSI 117.1 SECTION 404.2.6.
- GC RESPONSIBLE FOR ACCESSIBILITY COMPLIANCE ON ANY TEMPORARY LEASING TRAILERS ON SITE.
- CABINET SHOP DRAWINGS SHALL INCLUDE ACCESSIBLE CLEARANCE AREAS SUBMITTED TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS SHALL BE APPROVED BY THE GC AND REVIEWED BY THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF KITCHEN AND BATHROOM CABINETS IN BOTH TYPE A AND TYPE B UNITS.
- MAXIMUM DOOR THRESHOLD HEIGHT ON ALL TYPE A OR TYPE B HINGED DOORS SHALL BE 1/2". SLIDING DOORS TO BE 3/4".

**REQUIREMENTS FOR ALL TYPE "A" & TYPE "B" DWELLING UNITS**

- THE FOLLOWING SHALL BE INSTALLED IN TYPE A AND TYPE B UNITS PRIOR TO CERTIFICATE OF OCCUPANCY.
- PERPENDICULAR WALL BLOCKING FOR GRAB BARS & SHOWER SEAT CAPABLE OF SUPPORTING 250 LBS. LOCATE BLOCKING AT 2-9" TO C.L. TO CENTERLINE ABOVE TUB AND AT WATER CLOSET.
  - MOUNT TOILET PAPER HOLDER BETWEEN 18" & 19" A.F.F. TO BOTTOM OF HOLDER.
  - TOWEL BARS MOUNTED AT 48" A.F.F. (MAX.)
  - LIGHT AND FAN SWITCHES, DRAPERY MECHANISMS, THERMOSTATS AND FIRE ALARMS SHALL BE LOCATED NO HIGHER THAN 48" A.F.F.
  - ELECTRICAL OUTLETS SHALL NOT BE LOCATED LOWER THAN 15" MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF LOWEST RECEPTACLE PLUG IN THE BOX.
  - ELECTRICAL PANELS MUST BE MOUNTED A MINIMUM OF 24" FROM THE ADJACENT PERPENDICULAR WALL TO CENTER OF THE PANEL. ALL OPERABLE BREAKERS ARE REQUIRED TO BE LOCATED BETWEEN 15" AFF MIN. 48" AFF MAX.
  - PROVIDE LEVER STYLE DOOR HANDLE ON ALL DOORS WITHIN TYPE A AND TYPE B UNITS. ALL OPERABLE PARTS SHALL BE LOCATED 34"-48" MAX AFF

**GENERAL REQUIREMENTS FOR TYPE "A" DWELLING UNITS**

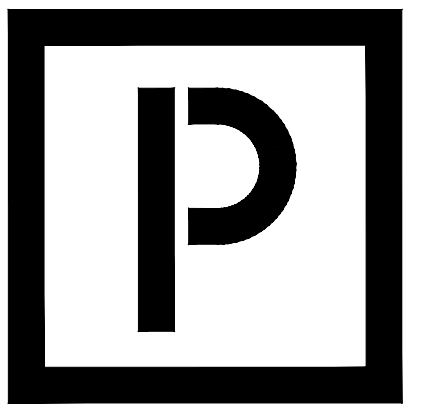
- THE FOLLOWING SHALL BE INSTALLED IN TYPE A UNIT PRIOR TO CERTIFICATE OF OCCUPANCY.
- WATER SUPPLY AND DRAIN LINES UNDER KITCHEN SINK AND AT THE ACCESSIBLE BATHROOM LAVATORY SHALL BE INSULATED OR SHIELDED TO PROTECT AGAINST KNEE CONTACT. PROVIDE REAR DRAIN SINKS AT ALL TYPE A UNITS AND LAVATORIES.
  - CABINET FRONT AT KITCHEN SINK AND AT THE ACCESSIBLE BATHROOM LAVATORY SHALL BE REMOVABLE WITHOUT THE REMOVAL OR REPLACEMENT OF THE SINK/LAV.
  - FLOOR FINISH AT KITCHEN SINK AND AT THE ACCESSIBLE BATHROOM LAVATORY SHALL EXTEND UNDER THE CABINETRY.
  - THE WALL BEHIND AND THE CABINETRY SURROUNDING THE KNEE SPACE AT KITCHEN SINK AND AT THE ACCESSIBLE BATHROOM LAVATORY SHALL BE FINISHED.
  - PROVIDE A MIN. 30" W X 19" L X 27" H CLEAR FLOOR AREA BELOW KITCHEN SINK AND AT THE ACCESSIBLE BATHROOM LAVATORY.
  - INSTALL SHELVES IN CLOSETS AT 48" A.F.F. MAX.
  - INSTALL RANGE W/ FRONT MOUNTED CONTROLS.
  - INSTALL DISHWASHER WITH FRONT MOUNTED PUSH-BUTTON CONTROLS. DISHWASHER DOOR SHALL LOCK EITHER BY BUTTON OR LEVER.
  - PROVIDE ACCESSIBLE WASHER AND DRYER WITH FRONT CONTROLS. TOP LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENTS 36 INCHES MAXIMUM ABOVE THE FLOOR. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT 15 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FLOOR.
  - PROVIDE KITCHEN SINK W/ AT LEAST ONE BOWL DEPTH THAT ALLOWS KNEE CLEARANCE DEPTH OF 8 INCHES AT 27 INCHES AFF AND 11 INCHES DEPTH AT 9 INCHES AFF.
  - PROVIDE ACCESSIBLE LAVATORY THAT ALLOWS KNEE CLEARANCE DEPTH OF 8 INCHES AT 27 INCHES AFF AND 11 INCHES DEPTH AT 9 INCHES AFF.
  - PROVIDE ADJUSTABLE SHOWER HEAD W/ 60" FLEXIBLE HOSE AT 76" A.F.F. AND SINGLE LEVER WATER CONTROL AT 6" MAX. ABOVE AND 8" TUB RIM AND 8" CENTERLINE FROM TUB EDGE.
  - BOTTOM EDGE OF MIRROR REFLECTIVE SURFACE MOUNTED AT 40" A.F.F. (MAX.)
  - PROVIDE KITCHEN COUNTER WORK SURFACE AT 34 INCHES AFF. PROVIDE PULL UNDER KNEE SPACE AT A SECTION OF WORK SURFACE OF MINIMUM WIDTH 30 INCHES 15. PROVIDE PUSH BUTTON DOOR BELL ON CORRIDOR SIDE OF EACH TYPE A UNIT ON LATCH/STRIKE SIDE OF UNIT ENTRY DOOR.
  - INSTALL TWO PEEP HOLES ON ALL TYPE A UNIT ENTRY DOORS. INSTALL LOWER ACCESSIBLE PEEP HOLE BETWEEN 42"-48" AFF
  - PROVIDE 18" CLEAR BETWEEN DOOR EDGE AND ADJACENT WALL ON PULL SIDE OF ALL PASSAGE DOORS LOCATED WITHIN TYPE A UNITS.
  - WATER CLOSET FLUSH CONTROLS ON OPEN SIDE OF ALL TOILETS IN TYPE A BATHROOMS.
  - PROVIDE RANGE WITH FRONT CONTROLS IN ALL TYPE A UNITS.
  - PROVIDE WALL SWITCH FOR ALL RANGE HOODS IN TYPE A KITCHENS.

**ADAPTABLE OPTIONS FOR TYPE "A" DWELLING UNITS AFTER CERTIFICATE OF OCCUPANCY**

- THE FOLLOWING ADAPTABLE FEATURES ARE ALLOWED TO BE INSTALLED AFTER CERTIFICATE OF OCCUPANCY BUT BEFORE OCCUPATION BY A HANDICAPPED TENANT.
- INSTALL GRAB BARS IN BATHROOMS. (BLOCKING SHALL BE PROVIDED BEFORE C OF O PER ABOVE NOTES)
  - INSTALL TUB SEAT IN ACCESSIBLE BATHTUB(S).
  - INSTALL SHOWER SEAT IN ACCESSIBLE SHOWER(S).

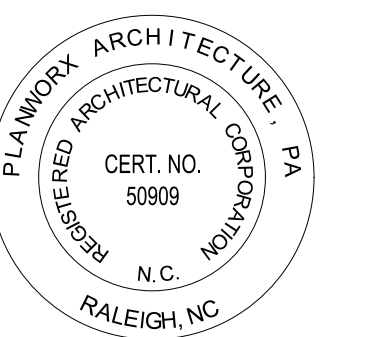
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**PLANWORX ARCHITECTURE**

5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
website www.planworx.com



Cape Overlook Pool House

Triangle Land Partners

Lillington, NC

Issued for Permit (10-25-24)



10-25-2024

PROJECT NO:	002824
DRAWN BY:	BB
CHECKED BY:	DS
SHEET TITLE:	Accessibility Requirements
SHEET NUMBER:	G003

PROGRESS DATE: 10-25-2024

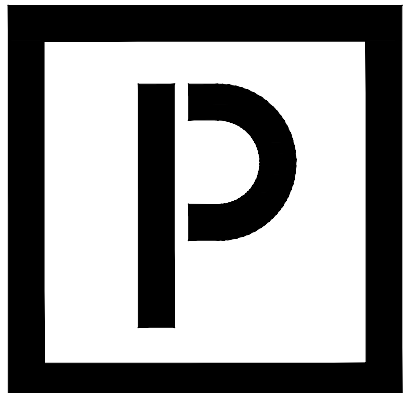
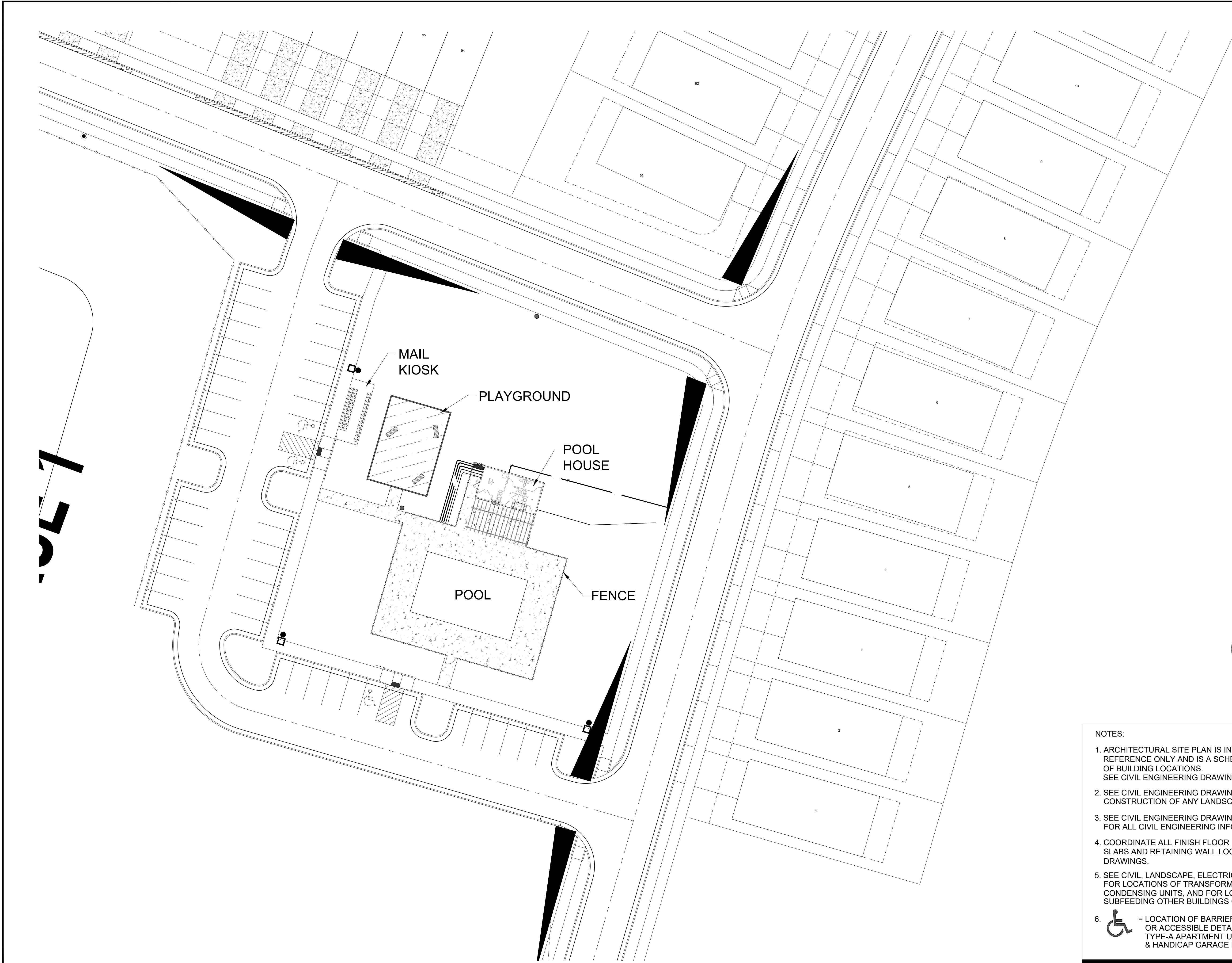
ISSUE DATE: 10-25-2024

REVISIONS: NUMBER DATE INITIALS DESCRIPTION

PROGRESS DATE: 10-25-2024

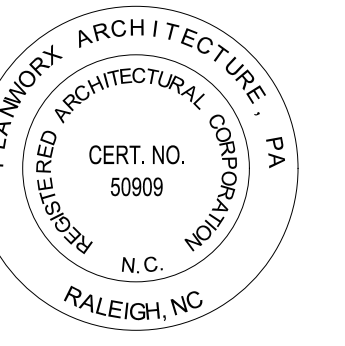
ISSUE DATE: 10-25-2024

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**PLANWORX**  
ARCHITECTURE

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10-25-2024

- NOTES:
1. ARCHITECTURAL SITE PLAN IS INTENDED TO BE FOR REFERENCE ONLY AND IS A SCHEMATIC REPRESENTATION OF BUILDING LOCATIONS. SEE CIVIL ENGINEERING DRAWINGS FOR SITE SCOPE
  2. SEE CIVIL ENGINEERING DRAWINGS FOR CONSTRUCTION OF ANY LANDSCAPE & RETAINING WALLS
  3. SEE CIVIL ENGINEERING DRAWINGS FOR ALL CIVIL ENGINEERING INFORMATION.
  4. COORDINATE ALL FINISH FLOOR ELEVATIONS, ACCESSORY BUILDING SLABS AND RETAINING WALL LOCATIONS WITH CIVIL ENGINEERING DRAWINGS.
  5. SEE CIVIL, LANDSCAPE, ELECTRICAL, AND MECHANICAL DRAWINGS FOR LOCATIONS OF TRANSFORMERS, METER CENTERS, CONDENSING UNITS, AND FOR LOCATIONS OF METERS SUBFEEDING OTHER BUILDINGS OR SITE FEATURES.
  6. = LOCATION OF BARRIER-FREE PARKING SPACE OR ACCESSIBLE DETACHED GARAGE BAY. TYPE-A APARTMENT UNIT ON GROUND LEVEL & HANDICAP GARAGE BAY AS NOTED.

PROGRESS DATE:	ISSUE DATE:	REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
-	10-25-2024				

PROJECT NO: 002824

DRAWN BY: BB

CHECKED BY: DS

SHEET TITLE: Architectural Site Plan

SHEET NUMBER: G004

1 ARCHITECTURAL SITE PLAN  
NTS

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### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Cape Overlook (Pool House) Location: Lillington, North Carolina Zip Code: 27546  
 Address: Near 1938 Ross Road Owner/Author/Agent: David Cushing Phone: (919) 478-7872 E-Mail: dc.greystock@gmail.com  
 Owned By: Private Code Enforcement Jurisdiction: City

DESIGNER: FIRM: Planworx Architecture NAME: David R. Schmidt LICENSE # 13142 TELEPHONE # 919.478.7872 E-MAIL: dschmidt@planworx.com  
 Architectural: David R. Schmidt 13142 919.478.7872 dschmidt@planworx.com  
 Civil: David Whittington 052187 919.367.8790 dswhittington@planworx.com  
 Electrical: Kilian Engineering, Inc. Michael Kilian 17304 252.438.8778 mkilian@kilianengineering.com  
 Fire Alarm: Kilian Engineering, Inc. Michael Kilian 17304 252.438.8778 mkilian@kilianengineering.com  
 Plumbing: Kilian Engineering, Inc. Michael Kilian 17304 252.438.8778 mkilian@kilianengineering.com  
 Mechanical: Kilian Engineering, Inc. Michael Kilian 17304 252.438.8778 mkilian@kilianengineering.com  
 Sprinkler Standpipe: \_\_\_\_\_  
 Structural: Harvest-Cress Michael Gabriel Harner 035814 919.817.7579 mharner@harvest-cress.com  
 Retaining Walls > 3' High: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 (\*Other\* should include firms and individuals such as, but not limited to, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building  
 2018 NC EXISTING BUILDING CODE: N/A N/A N/A  
 CONSTRUCTED: (date) \_\_\_\_\_ CURRENT OCCUPANCY(S) (Ch. 3): \_\_\_\_\_  
 RENOVATED: (date) \_\_\_\_\_ PROPOSED OCCUPANCY(S) (Ch. 3): A-3  
 RISK CATEGORY (Table 1604.5): Current: N/A Proposed: II

BASIC BUILDING DATA  
 Construction Type: 3-B  
 Sprinklers: No Select one  
 Standpipes: N/A  
 Primary Fire District: No Flood Hazard Area: No  
 Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
2nd Floor			
1st Floor		637	637
TOTAL		637	637

ALLOWABLE AREA  
 Primary Occupancy Classification(s): Assembly - A-3 Select one Select one Select one Select one  
 Secondary Occupancy Classification(s): \_\_\_\_\_  
 Incidental Uses (Table 509): \_\_\_\_\_  
 Special Uses (Chapter 4 - List Code Sections): \_\_\_\_\_  
 Special Provisions (Chapter 4 - List Code Sections): \_\_\_\_\_  
 Mixed Occupancy: No Separation: Select one Exception: \_\_\_\_\_  
 No Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1  
 Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 100

STORY NO.	DESCRIPTION AND USE	(A) AREA PER STORY (ACTUAL)	(B) AREA PER STORY (ALLOWABLE)	(C) PERCENT OF FLOOR AREA INCREASE (%)	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2</sup>
1	A-3	637	6,000	NOT TAKEN	6,000

1. Footnote area increases from Section 506.3 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)  
 b. Total Building Perimeter = \_\_\_\_\_ (P)  
 c. Ratio (F/P) = \_\_\_\_\_ (R)  
 d. W = Minimum width of public way = \_\_\_\_\_ (W)  
 e. Percent of floor area increase =  $1 - 100(F/P - 0.25)(W/P)$  (%)  
 2. Unlimited area applicable under conditions of Section 507.  
 3. Maximum Building Area - total number of stories in the building > 4 (maximum 3 stories) (506.2)  
 4. The maximum area of open parking garages must comply with Table 406.3.4.  
 5. Footnote increase is based on the unshaded area value in Table 506.2.

ALLOWABLE HEIGHT			
Building Height in Feet (Table 504.3) <sup>1</sup>	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE <sup>2</sup>
Building Height in Stories (Table 504.4) <sup>3</sup>	3	1	

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 an traffic control tower must comply with Table 4.2.1.1.  
 3. The maximum height of open parking garages must comply with Table 406.3.4.

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RETOB	RATING (OR) PROTECTION METHOD (TOP)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOISTS
Structural Frame, including columns, girders, trusses							
Bearing Walls		0	0	N/A	N/A		
Exterior	>30'	0	0	N/A	N/A		
North	>30'	0	0	N/A	N/A		
East	>30'	0	0	N/A	N/A		
West	>30'	0	0	N/A	N/A		
South	>30'	0	0	N/A	N/A		
Nonbearing Walls and Partitions							
Exterior walls							
North	>30'	0	0	N/A	N/A		
East	>30'	0	0	N/A	N/A		
West	>30'	0	0	N/A	N/A		
South	>30'	0	0	N/A	N/A		
Interior walls and partitions (Pool Equipment)		1	1	U305	U305		
Pool Enclosure		N/A	N/A	N/A	N/A		
Including supporting beams and joists							
Floor Ceiling Assembly		0	0	N/A	N/A		
Column Supporting Floor		N/A	N/A	N/A	N/A		
Roof Construction, including supporting beams and joists		N/A	N/A	N/A	N/A		
Roof Ceiling Assembly (Pool Equipment)		1	1	U3016	P522		
Column Supporting Roof		N/A	N/A	N/A	N/A		
Shaft Enclosure - Exit		N/A	N/A	N/A	N/A		
Shaft Enclosure - Other		N/A	N/A	N/A	N/A		
Consider Separation		0	0	N/A	N/A		
Occupancy Fire Barrier Separation		N/A	N/A	N/A	N/A		
Party Fire Wall Separation		N/A	N/A	N/A	N/A		
Smoke Barrier Separation		N/A	N/A	N/A	N/A		
Smoke Partition		N/A	N/A	N/A	N/A		
Interior Driveway Unit		N/A	N/A	N/A	N/A		
Shelving Unit Separation		N/A	N/A	N/A	N/A		
Incidental Use Separation		N/A	N/A	N/A	N/A		

\* Indicate section number permitting reduction

### PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DIRECTION OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
All Sides > 30'	UNPROTECTED, NON SPREADER (0.1, 0.3)	NO LIMIT PER 705.8.1 EXCEPTION 2)	N/A

\* Per 705.8.1 exception 2.

### LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes  
 Exit Signs: No  
 Fire Alarm: No  
 Smoke Detection Systems: No  
 Carbon Monoxide Detection: No

### LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G010  
 Fire and/or smoke rated wall locations (Chapter 7)  
 Assumed and real property line locations (if not on the site plan)  
 Exterior wall opening area with respect to distance to assumed property lines (705.8)  
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)  
 Occupant load for each area  
 Exit sign locations (1013)  
 Exit access travel distances (1017)  
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2.1)  
 Dead end lengths (1020.4)  
 Clear exit widths for each exit door  
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.5)  
 Actual occupant load for each exit door  
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation  
 Location of doors with panic hardware (1010.1.10)  
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)  
 Location of doors with electromagnetic egress locks (1010.1.9.9)  
 Location of doors equipped with hold-open devices  
 Location of emergency escape windows (1030)  
 The square footage of each fire area (202)  
 The square footage of each smoke compartment for Occupancy Classification I-2(407.5)  
 Note any code exceptions or table notes that may have been utilized regarding the items above

### ACCESSIBLE DWELLING UNITS (SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS (ON SITE)	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
	****	****	****	****	****	****	****	****

\* Numbers above note total accessible dwelling units required for entire project phase.

### ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	# OF SPACES 500+ SPACES	# OF SPACES 132+ SPACES	TOTAL # ACCESSIBLE SPACES PROVIDED

\*SEE CIVIL DRAWINGS\*

### PLUMBING FIXTURE REQUIREMENTS (TABLE 2002.1)

SPACE	EVENT 'G'	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS		DRINKING FOUNTAINS	
		MALE	FEMALE	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	
SPACE	0	0	0	0	0	0	0	0	0	0	0
NEW	1	2	0	1	1	2	0	1	1	1	1
REQ'D	1	2	0	1	1	2	0	0	1	1	1

### SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHS, etc., describe below)  
 DHSIS - Pool Submission

### ENERGY SUMMARY

ENERGY REQUIREMENTS:  
 The following data shall be considered minimum, and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No  
 Exempt Building: No Provide code or statutory reference:  
 Climate Zone: 4A  
 Method of Compliance: Energy Code - Prescriptive (If "Other" specify source here.)

### THERMAL ENVELOPE (Prescriptive method only)

Roofing/ceiling Assembly (each assembly)  
 Description of assembly: Pre-engineered wood roof trusses w/ roof sheathing, roofing felt and asphalt shingles  
 U-Value of total assembly: 1.38 - 0.026  
 R-Value of insulation: 42 (AT CONDITIONED SPACES ONLY)  
 Skylights in each assembly: N/A  
 U-Value of skylight: N/A  
 total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)  
 Description of assembly: 2x6 stud wall u.o.w. 5/8" gyp. bd, batt insulation, exterior sheathing and exterior cladding per elevations  
 U-Value of total assembly: 0.15  
 R-Value of insulation: 20  
 Openings (windows or doors with glazing)  
 U-Value of assembly: 0.32 max  
 Solar heat gain coefficient: 0.25 max  
 projection factor: < 0.25  
 Door R-Value: 3.0 min.

Walls below grade (each assembly)  
 Description of assembly: N/A  
 U-Value of total assembly: N/A  
 R-Value of insulation: N/A

Floors over unconditioned space (each assembly)  
 Description of assembly: \_\_\_\_\_  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

Floors slab on grade  
 Description of assembly: 4" Concrete slab on vapor barrier w/ #57 stone over 95% compacted fill  
 U-Value of total assembly: 1.15 - 0.066  
 R-Value of insulation: 15 for 24" (AT CONDITIONED SPACES ONLY)  
 Horizontal/vertical requirement: applied downward to the bottom of the footing  
 slab heated: N/A

### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (SEE STRUCTURAL DRAWINGS)

DESIGN LOADS:  
 Importance Factors: Snow (I<sub>s</sub>) Select one  
 Seismic (I<sub>s</sub>) Select one  
 Live Loads: Roof \_\_\_\_\_ psf  
 Mezzanine \_\_\_\_\_ psf  
 Floor \_\_\_\_\_ psf  
 Ground Snow Load: \_\_\_\_\_ psf  
 Wind Load: Ultimate Wind Speed \_\_\_\_\_ mph (ASCE-7)  
 Exposure Category Select one

SEISMIC DESIGN CATEGORY: Select one  
 Provide the following Seismic Design Parameters:  
 Risk Category (Table 1604.5) Select one  
 Spectral Response Acceleration S<sub>1</sub> \_\_\_\_\_ %g S<sub>s</sub> \_\_\_\_\_ %g  
 Site Classification (ASCE 7) Select one  
 Data Source: Select one  
 Basic structural system Select one  
 Analysis Procedure Select one  
 Architectural, Mechanical, Components anchored? Select one

LATERAL DESIGN CONTROL: Select one

### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)

### MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone: winter dry bulb: \_\_\_\_\_  
 summer dry bulb: \_\_\_\_\_  
 Interior design conditions: winter dry bulb: \_\_\_\_\_  
 summer dry bulb: \_\_\_\_\_  
 relative humidity: \_\_\_\_\_  
 Building heating load: \_\_\_\_\_  
 Building cooling load: \_\_\_\_\_  
 Mechanical Spacing Conditioning System  
 Unitary: \_\_\_\_\_  
 Description of unit: \_\_\_\_\_  
 heating efficiency: \_\_\_\_\_  
 cooling efficiency: \_\_\_\_\_  
 size category of unit: \_\_\_\_\_  
 Boiler: \_\_\_\_\_  
 Size category: If oversized, state reason: \_\_\_\_\_  
 Chiller: \_\_\_\_\_  
 Size category: If oversized, state reason: \_\_\_\_\_  
 List equipment efficiencies: \_\_\_\_\_

### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (SEE ELECTRICAL DRAWINGS)

### ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one  
 Lighting schedule (each fixture type)  
 lamp type required in fixture \_\_\_\_\_  
 number of lamps in fixture \_\_\_\_\_  
 ballast type used in the fixture \_\_\_\_\_  
 number of ballasts in fixture \_\_\_\_\_  
 total wattage per fixture \_\_\_\_\_  
 total interior wattage specified vs. allowed (whole building or space by space) \_\_\_\_\_  
 total exterior wattage specified vs. allowed \_\_\_\_\_

Additional Efficiency Package Options  
 (When using the 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

### SIGNAGE NOTES

- PROVIDE ROOM SIGNS AT ALL PUBLIC ROOM DOORS.
- SIGNS SHALL COMPLY WITH ANSI 703.
- PROVIDE POSTED OCCUPANT LOAD SIGN IN EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE PER IBC 1004.3. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.
- PROVIDE "EXIT" SIGNS IN VISUAL CHARACTERS, RAISED CHARACTERS AND BRAILLE COMPLYING WITH ICC A117.1 ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY OR RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGNS SHALL BE PLACED ON THE WALL, ON THE LATCH SIDE OF THE DOOR, 48-60 INCHES OFF THE FLOOR.
- PROVIDE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.
- PROVIDE 5/8" TALL RAISED CHARACTERS AND TYPE 2 BRAILLE ON ALL SIGNS.
- MOUNT SIGNS AT 48" AFF TO BOTTOM OF SIGN. MOUNT SIGNS ON WALL, NOT ON DOORS. LOCATE SIGN ADJACENT TO THE LATCH SIDE OF DOOR. SEE LOCATION NOTES BELOW FOR ADDITIONAL INFORMATION.
- SIGNS SHALL COMPLY WITH 1009.9, 1013.4, 1111 & E107 OF THE NCSCB AND 703 OF ICC A117.1.

### LOCATION NOTES

- WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE.
- WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
- WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR.
- WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL.
- SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MIN. BY 18" MIN. CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

### WALL LEGEND

SEE SHEET G020 FOR ALL ASSOCIATED WALL TYPES.

MARK	UL WALL TYPE	DESCRIPTION
1	U305	SINGLE 1 HOUR RATED WALL
2	NOT USED	NOT USED
3	P522	1 HOUR RATED CEILING / ROOF SEPARATION

### GENERAL NOTES

EXAMPLE OF OCCUPANT LOAD LIMIT SIGN PER 2018 NCSCB 1004.3 (SEE SIGNAGE NOTES NOTE #3 ABOVE)

**NOTICE**  
FOR YOUR SAFETY  
**OCCUPANCY**  
IS LIMITED TO:  
**XXX**  
PERSONS  
BY ORDER OF  
THE CODE OFFICIAL  
Keep Posted Under Penalty of Law

### 2 SIGN REQUIREMENT

Project name: Cape Overlook  
 Date: 9/4/2024

### 1 POOL HOUSE - LIFE SAFETY PLAN

Scale: 1/4" = 1'-0"

Minimum Plumbing Fixture Calculations for Pools  
**HEALTH DEPARTMENT RULES FOR POOLS - 15A NCAC 18A .2500**

Pool Area	1,500	Deck Area	3,900	Deck Occupants (Deck Area/15)	260
Pool Occ Load (Pool Area/15):	100	Pool Area	1,500	Pool Occupants (Pool Area/50)	30
Male: (1 wc/lav: 1st 100)	50	Male WC:	1	Male Lav:	1
Female: (2 wc/lav: 1st 100)	50	Female WC:	2	Female Lav:	2
		D. Fount:	1 (1 min.)		

POOL HOUSE OCCUPANT LOAD			
Space	Area (sqft.)	Load Factor	Occupant Load
Gather	0	15 (net)	0

**FINAL NUMBER BASED ON WORST CASE OF THE TWO DESIGN CASES**  
 See Plumbing Fixture Requirements Chart on Appendix B Code Summary for Total Fixtures Required.

**NC Pool Rules (MALE):** One water closet, one lavatory, and one urinal shall be provided for the first 100 male users. One additional water closet, lavatory, and urinal shall be provided for each additional 200 male users up to a total of 500 users. Where user load exceeds 500 male users, two additional water closets or urinals and one lavatory shall be provided for each additional 250 male users. Where the maximum bather load includes less than 50 users, one water closet and one lavatory will be sufficient.

Note: Urinals may be substituted for water closets; however, substitution rule of section 419 of the NC plumbing code shall be used in which up to 67 percent of the required water closets may be urinals in assembly occupancies

**NC Pool Rules (FEMALE):** Two water closets and two lavatories shall be provided for the first 100 female users. One additional water closet and lavatory shall be provided for each additional 100 female users up to a total of 500 users. Where user load exceeds 500 female users, two additional water closets and one lavatory shall be provided for each additional 250 female users. Where the maximum bather load includes less than 50 users, one water closet and one lavatory will be sufficient.

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**DANIEL R. SCHMIDT**  
 REGISTERED ARCHITECT  
 LICENSE NO. 13142  
 RALEIGH, NC

**Cape Overlook Pool House**  
 Triangle Land Partners  
 Lillington, NC  
 Issued for Permit (10-25-24)

PROGRESS DATE:	ISSUE DATE:	REVISIONS NUMBER:	INITIALS	DESCRIPTION
10-25-2024	10-25-2024			

PROJECT NO: **002824**

DRAWN BY: **BB**  
 CHECKED BY: **DS**

SHEET TITLE: **Pool House Code Summary & Life Safety Plan**

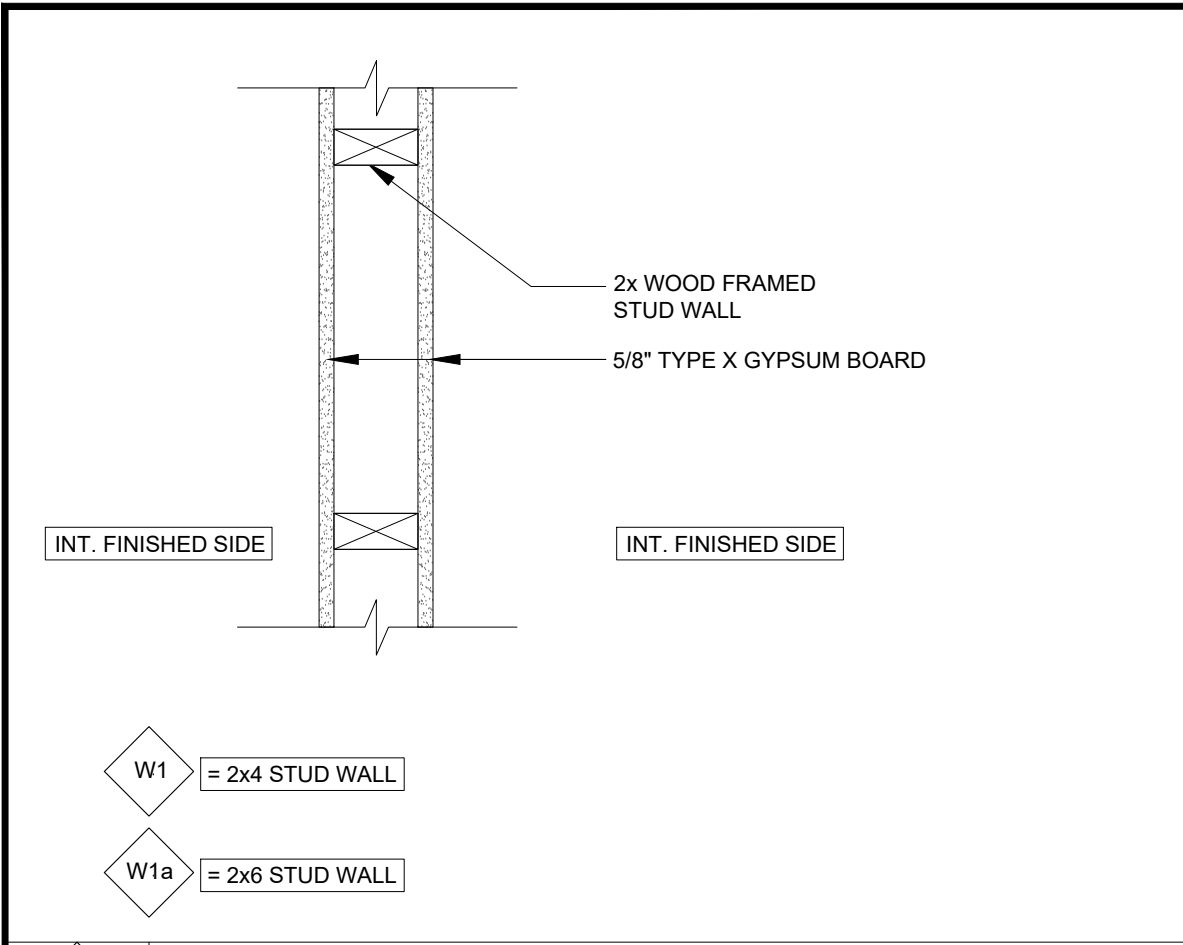
SHEET NUMBER: **G010**

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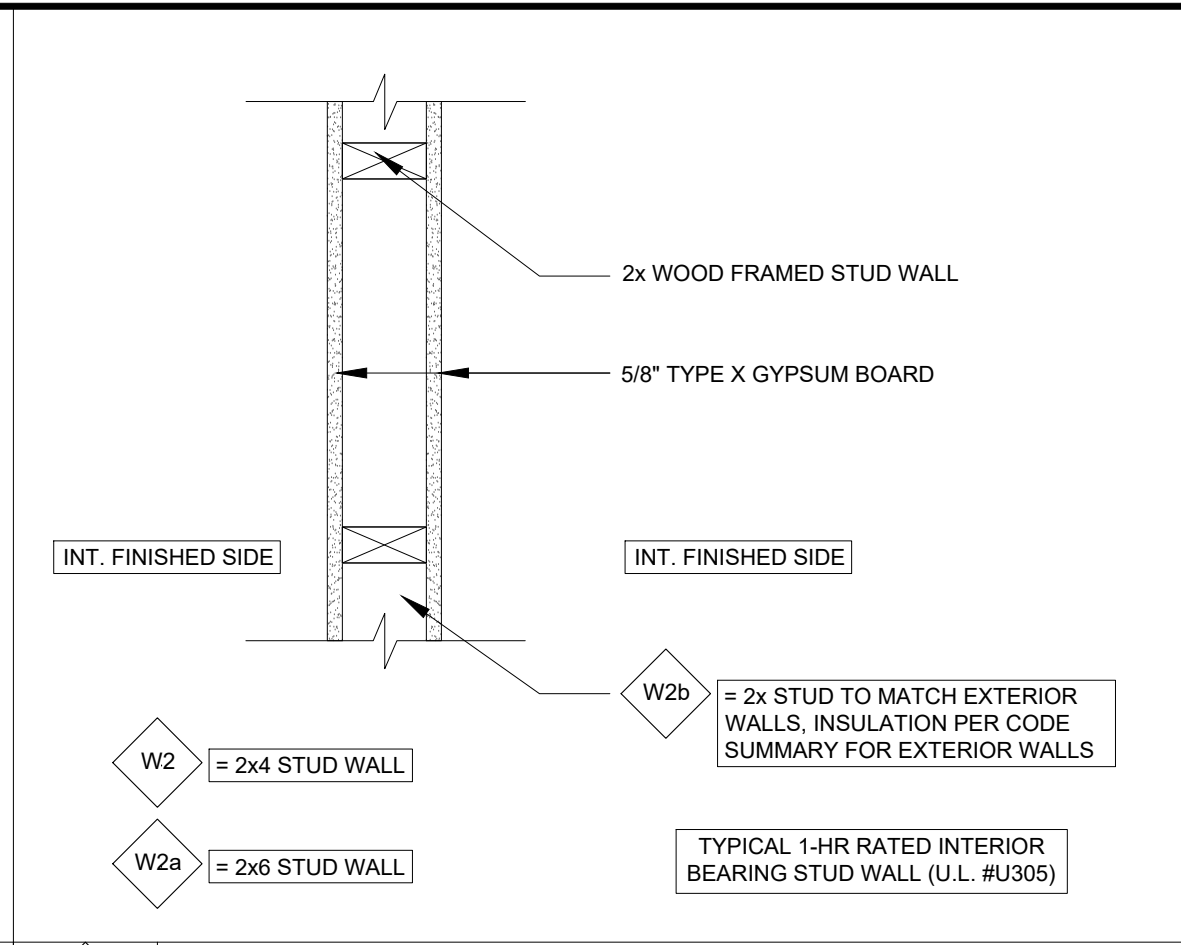








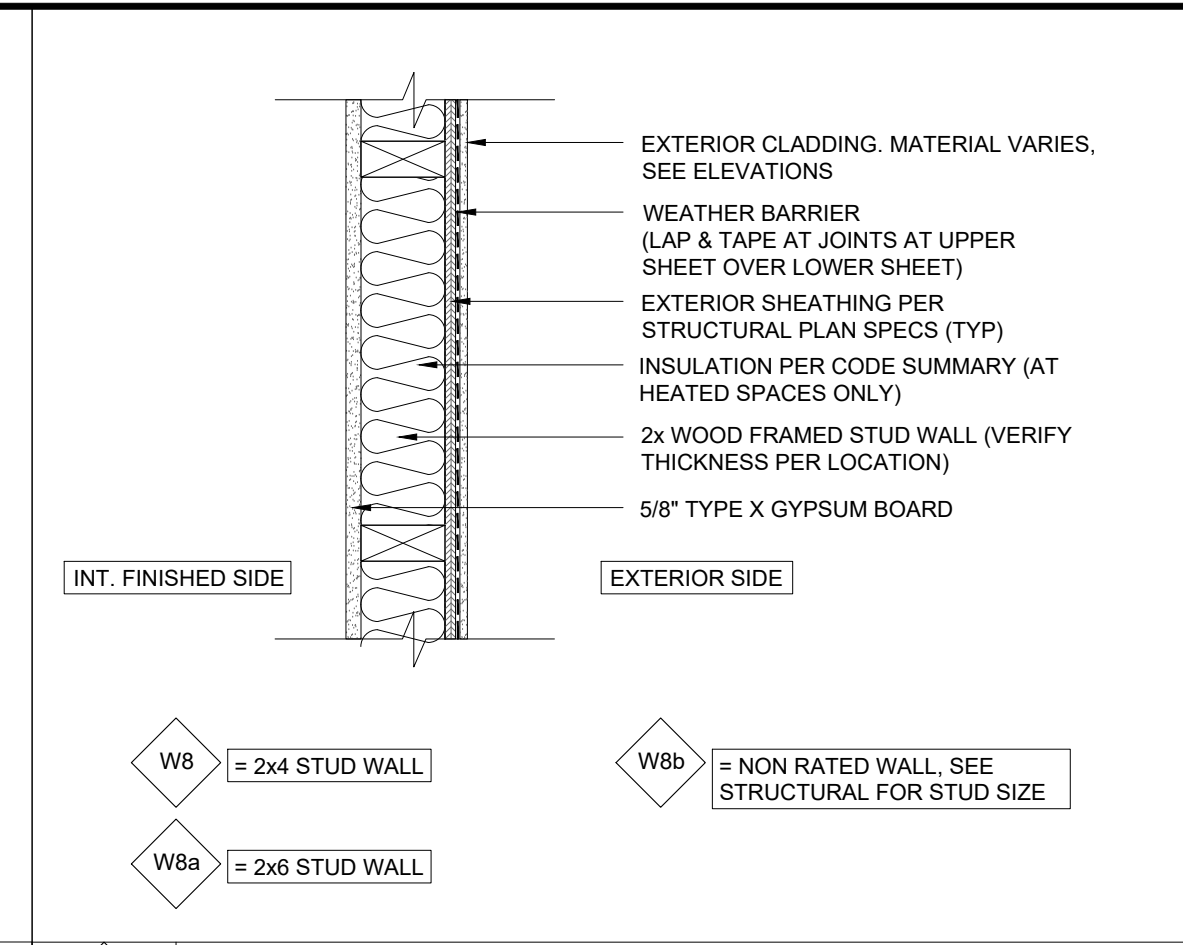
**W1** TYPICAL INTERIOR STUD WALL  
SCALE: 1 1/2" = 1'-0"



**W2** 1-HR RATED INTERIOR BEARING WALL  
SCALE: 1 1/2" = 1'-0"



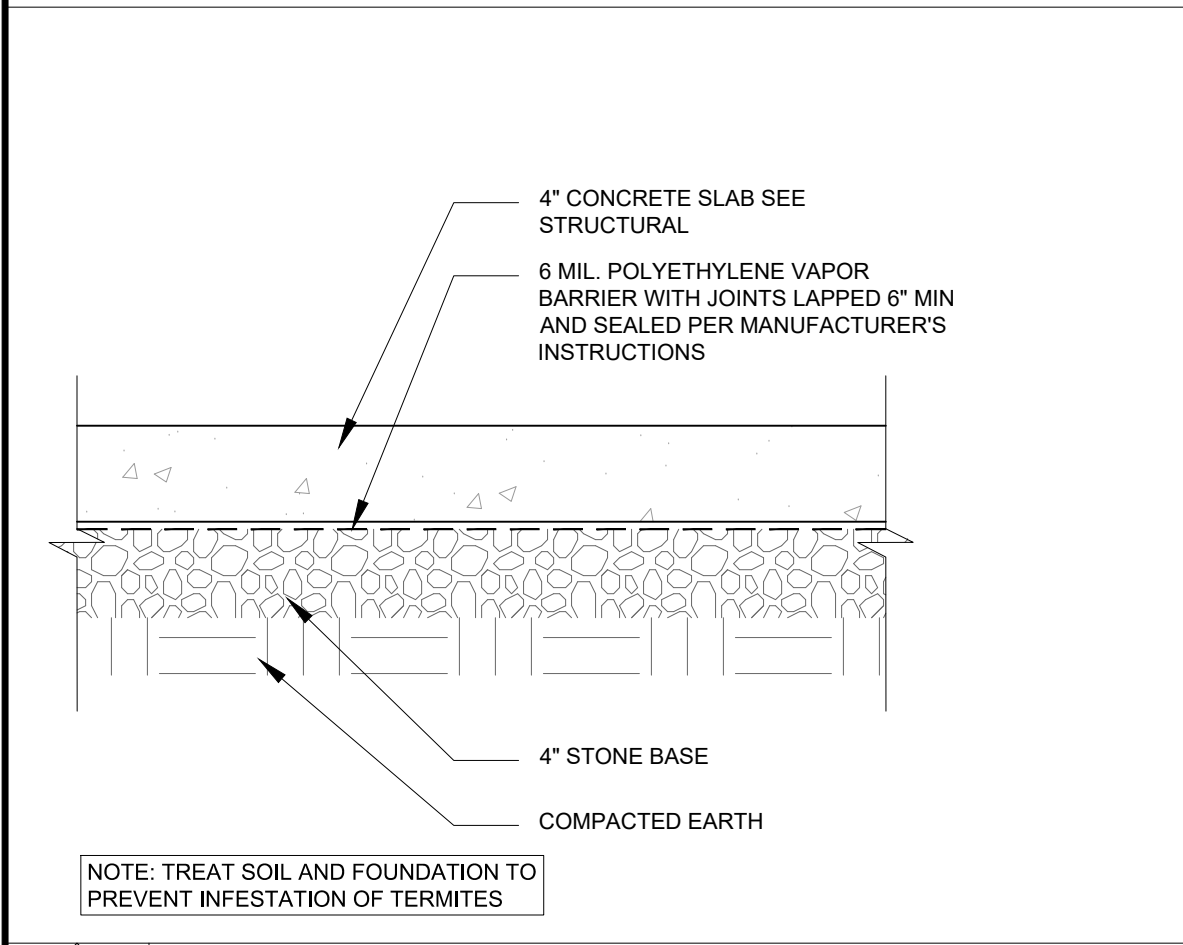
**W3** NOT USED



**W8** TYP. EXT. BEARING WALL - CLADDING  
SCALE: 1 1/2" = 1'-0"

- GENERAL ASSEMBLY NOTES:
- REFER TO STRUCTURAL DRAWINGS FOR ALL SHEAR WALL LOCATIONS AND TYPES. STUD SIZES LISTED IN STRUCTURAL DRAWINGS SUPERSEDE ARCHITECTURAL NOTES. INFORM ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION.
  - SEE STRUCTURAL FOR STUD SPACING. NON-LOAD BEARING WALLS 16" OC UNO.
  - SEE UL DETAILS FOR SPECIFIC REQUIREMENTS OF RATED ASSEMBLIES.
  - MINIMUM STC VALUE OF 50 BETWEEN TENANT DEMISING WALLS AND UNIT/CORRIDOR WALLS PER SECTION 1207.2 OF THE 2018 NCSBC. MINIMUM IIC VALUE OF 50 BETWEEN UNIT FLOOR/CEILING.
  - SEE SCHEDULE SHEETS FOR INTERIOR AND EXTERIOR MATERIAL SPECIFICATIONS.
  - PROVIDE NON-RATED 5/8" GYPSUM BOARD AT EXTERIOR WALLS OF ALL AMENITY BUILDINGS
  - ALL WALL, FLOOR, CEILING AND ROOF ASSEMBLIES, AND INTERSECTIONS OF WALL/CEILING ASSEMBLIES, TO BE FIREBLOCKED AND DRAFTSTOPPED PER SECTION 718 OF THE 2018 NCSBC.

GENERAL ASSEMBLY NOTES  
NTS



**F4** TYP. FLOOR SLAB ASSEMBLY  
SCALE: 1 1/2" = 1'-0"



**R1** 1-HR. ROOF/CLG. ASSEMBLY - SHINGLE  
SCALE: 1 1/2" = 1'-0"



**R5** NON-RATED ROOF/CLG. ASSEM.-SHINGLE  
SCALE: 1 1/2" = 1'-0"

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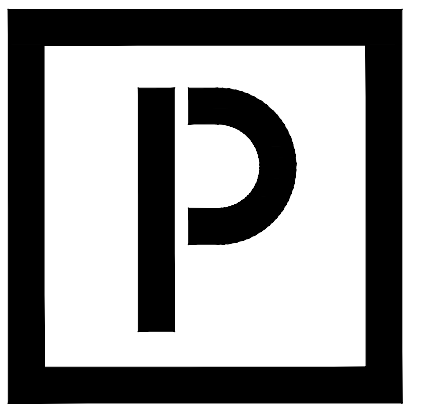
Cape Overlook Pool House  
Triangle Land Partners  
Lillington, NC  
Issued for Permit (10-25-24)

10-25-2024

PROGRESS DATE:	ISSUE DATE:	REVISIONS:	INITIALS	DESCRIPTION
-	10-25-2024			

PROJECT NO: 002824  
DRAWN BY: BB  
CHECKED BY: DS  
SHEET TITLE: Assembly Types  
SHEET NUMBER: G020

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Cape Overlook Pool House

Triangle Land Partners

Lillington, NC

Issued for Permit (10-25-24)



10-25-2024

PROGRESS DATE:  
10-25-2024

ISSUE DATE:  
10-25-2024

PROJECT NO: 002824

DRAWN BY: BB

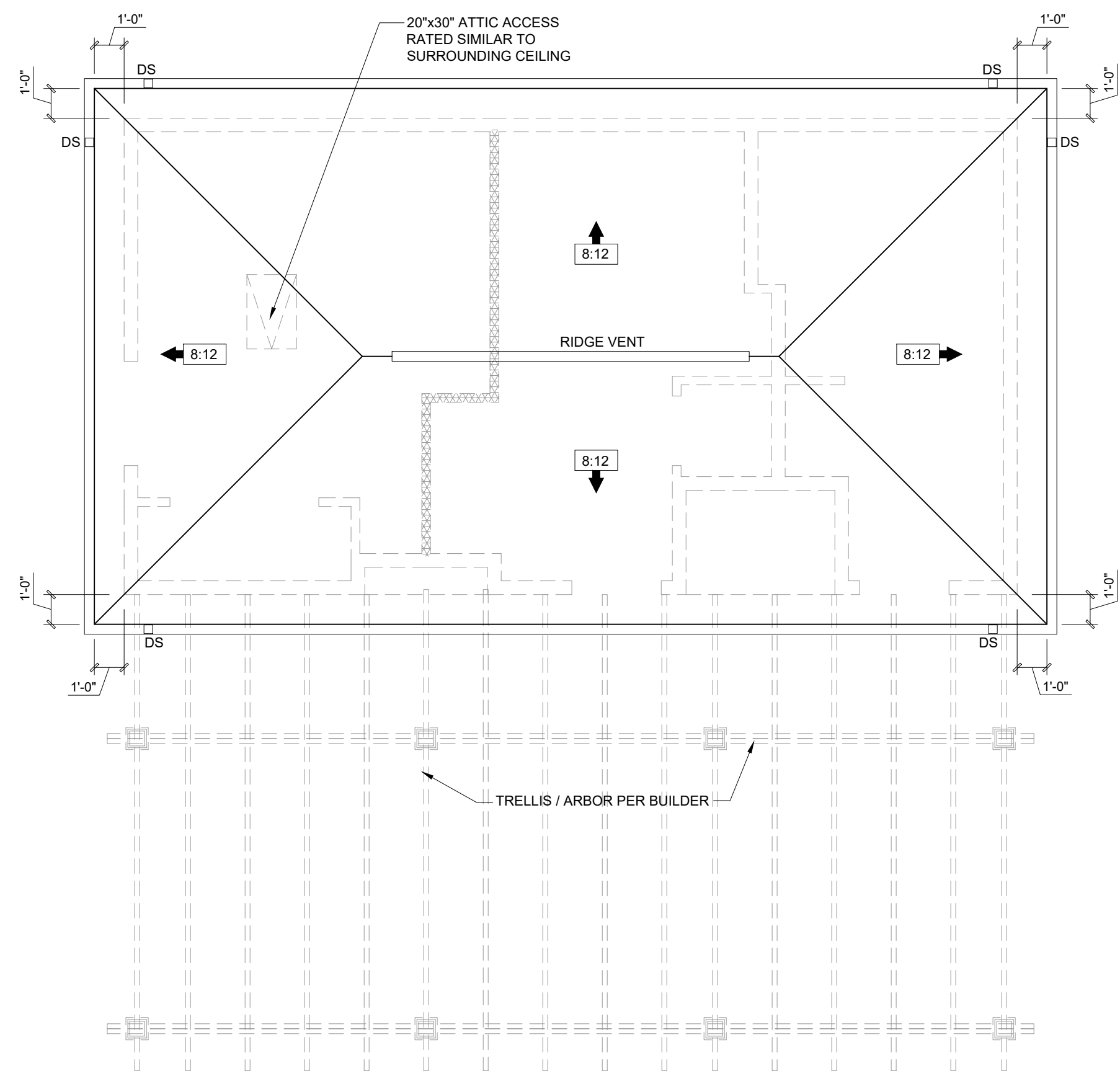
CHECKED BY: DS

SHEET TITLE:

Pool House  
Floor Plan & Roof Plan

SHEET NUMBER:

**A100**



**ROOF PLAN GENERAL NOTES**

- ALL DOWNSPOUTS ARE 6" AND TO TIE INTO STORM. SEE CIVIL
- APPLY ICE+WATER SHIELD TO ALL AREAS OF ROOF NOTED BELOW:
  - VALLEYS, MIN. 18" EACH SURFACE
  - ROOF SLOPES BELOW 4:12
  - ROOF/WALL INTERSECTIONS

D.S. = DOWNSPOUT  
T.R.B. = TO ROOF BELOW

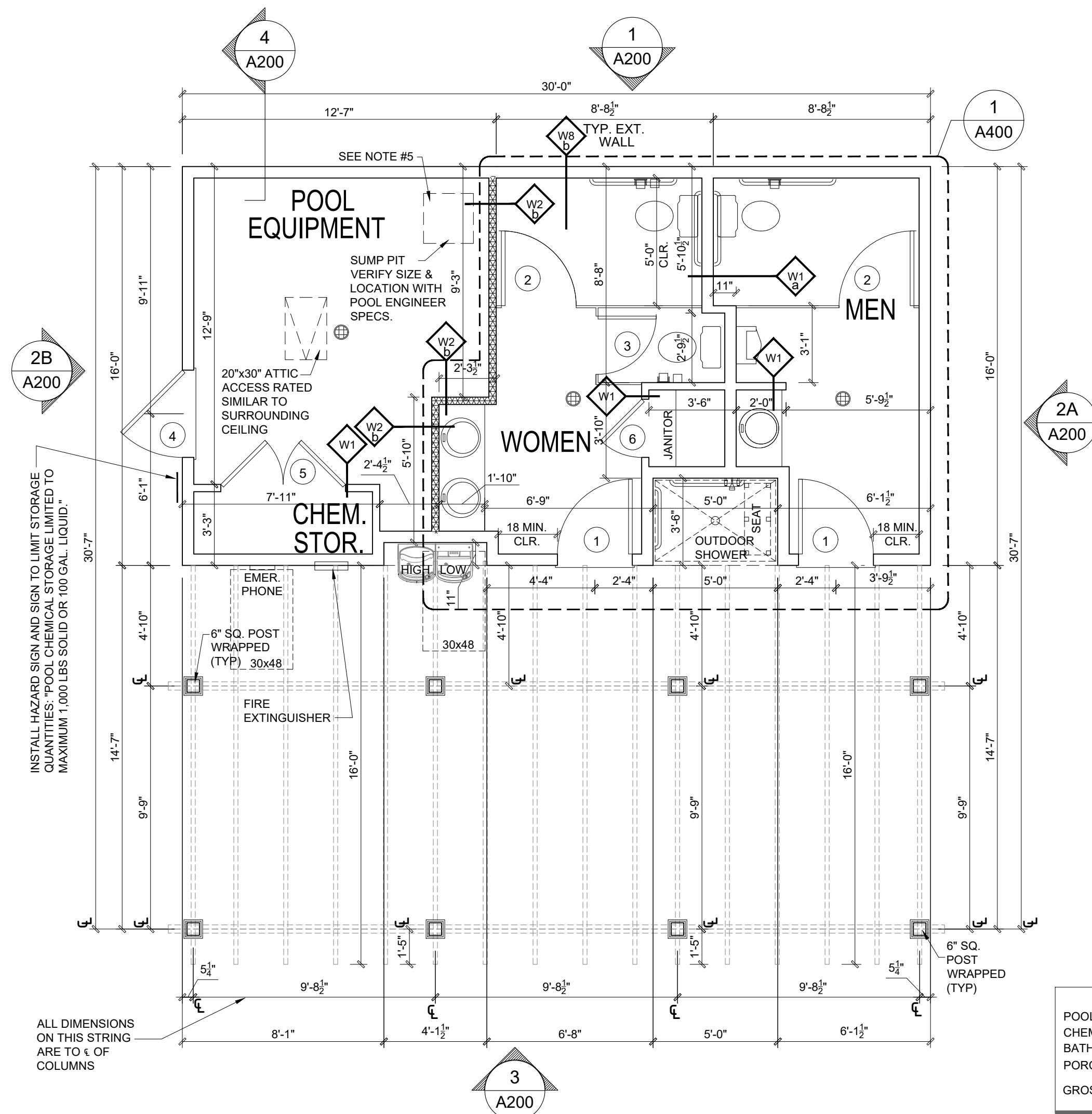
**Pool House - Roof Ventilation**

A	Ceiling area (square footage)	576
B	Sqft. of ventilation required	1.9

Formulas: B = A / 300

Notes:  
Builder to calculate quantities and types of vents to make up the minimum requirement. Attic ventilation shall be approximately 50% soffit, and 50% high (gable end or ridge vents).

**2 POOL HOUSE - ROOF PLAN**  
SCALE: 1/4" = 1'-0"



**ARCHITECTURAL PLANS WALL LEGEND**

- STANDARD STUD WALL INT OR EXT  
IF EXT SEE ELEVATIONS FOR SIDING  
STYLE THICKNESS OF WALL NOTED IN PLAN NOTES OR AT WALL LOCATIONS
- HALF WALL WITH 1x CAP  
(42" HEIGHT UNLESS NOTED OTHERWISE ON PLANS)
- 1 HOUR RATED WALL DESIGNATION  
SEE LIFE SAFETY SHEET G010

**POOL HOUSE FLOOR PLAN GENERAL NOTES**

**WALLS**

- ALL EXTERIOR WALLS ARE ASSEMBLY TYPE W8a AT EXTERIOR LOCATIONS INDICATED ON THE EXTERIOR ELEVATIONS (U.N.O). SEE G SERIES SHEETS FOR DETAILS.
- ALL EXTERIOR WALLS ARE 2x6 STUDS U.N.O AND DIMENSIONED TO EXTERIOR STUD EDGE. ALL INTERIOR WALLS ARE ASSEMBLY TYPE W1 (U.N.O)
- ALL GYPSUM BOARD TO BE MOISTURE RESISTANT

**ATTIC ACCESS**  
ATTIC ACCESS SHALL BE PROVIDED BY BUILDER ACCORDING TO LOCAL CODE.

**WALL/CEILING HEIGHTS**

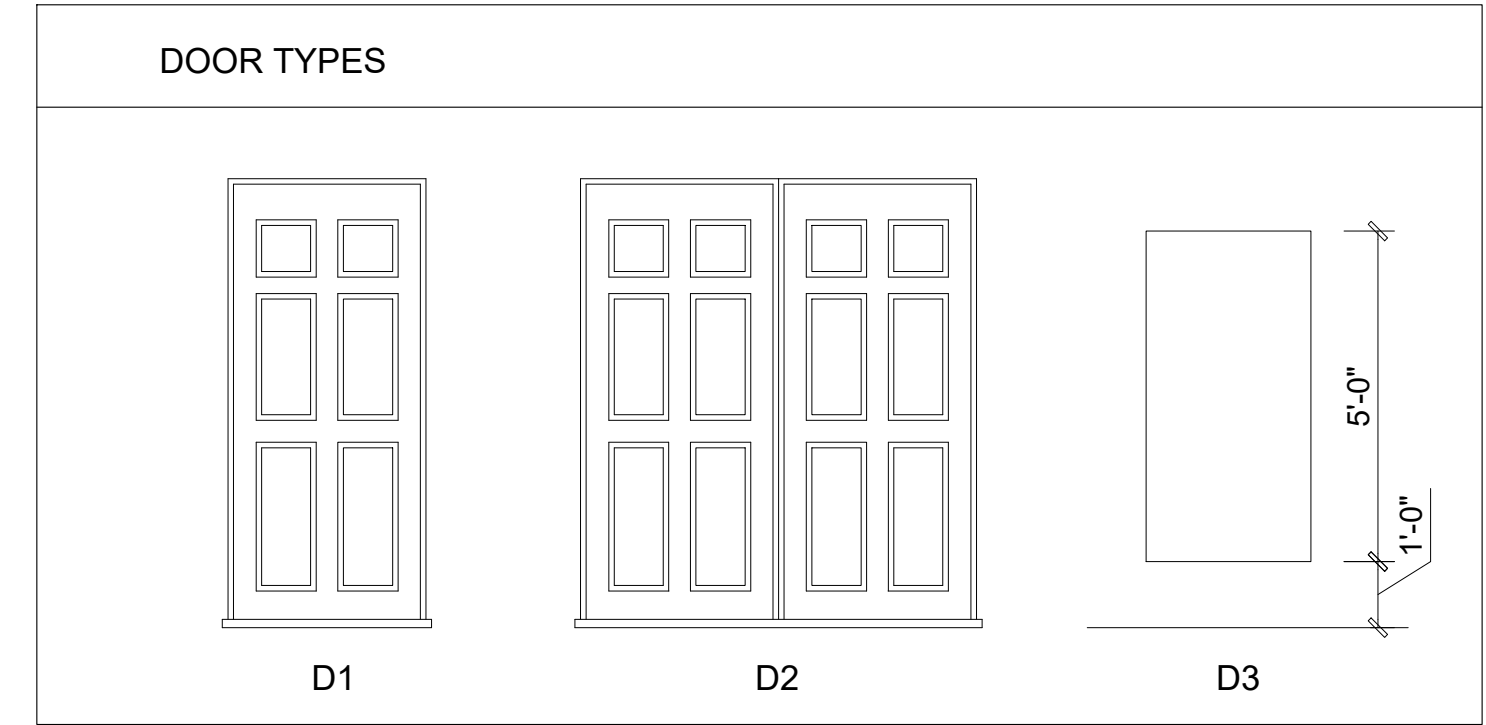
- WALL AND CEILING HEIGHTS NOTES ARE BASED ON NOMINAL WALL SIZE (I.E. A 10'-1 1/8" ACTUAL WALL HEIGHT IS LABELED 10/0 ON THE PLANS).
- PROVIDE FULL HEIGHT FRP FINISH AT POOL EQUIPMENT AND CHEM. STORAGE ROOMS GENERAL

- ALL EXTERIOR THRESHOLDS TO BE BARRIER FREE DESIGN.
- SUMP PIT, POOL EQUIPMENT ROOM SIZE / LAYOUT, FLOOR DRAINS & HOSE BIBS TO BE VERIFIED BEFORE CONSTRUCTION BEGINS TO COORDINATE WITH POOL MANUFACTURERS SPECS & DRAWINGS BY OTHERS. IF NOT SUPPLIED PRIOR TO PERMITTING DRAWING RELEASE ARCHITECT HOLDS NO LIABILITY FOR FUTURE COORDINATION (TYP).
- ANY STRUCTURAL INFORMATION SHOWN IS FOR REFERENCE ONLY & TO BE CONFIRMED ON THE APPROPRIATE STRUCTURAL SHEETS. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL SHEETS, THE INFORMATION SHOWN ON THE STRUCTURAL SHEETS WILL OVERRIDE ANY ARCHITECTURAL INFORMATION SHOWN AND SHOULD BE REPORTED TO PLANWORX ARCHITECTURE, P.A., FOR CONFIRMATION BEFORE CONSTRUCTION.
- MATERIALS STORED ARE CORROSIVE, IRRITANT, APPROX. 200 LBS. SOLID.
- SUMP PIT W/ 6" TO S.S. VERIFY FINAL SIZE AND LOCATION WITH POOL ENGINEERS DRAWINGS.
- CHEMICAL STORAGE SPACE BASED ON MIN. OF FIVE SQFT. FOR THE FIRST 10,000 GALLONS OF POOL WATER PLUS ONE ADDITIONAL SQFT. FOR EACH ADDITIONAL 3,000 GALLONS OR PORTION THEREOF UP TO A TOTAL AREA OF 100 SQFT. STORAGE SIZE TO BE FIELD VERIFIED.

**SQUARE FOOTAGE**

POOL EQUIPMENT ROOM =	154
CHEM. STORAGE =	26
BATHROOMS =	279
PORCH / SHOWER =	501
GROSS BLDG. SQ. FT. =	637

**1 POOL HOUSE - FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



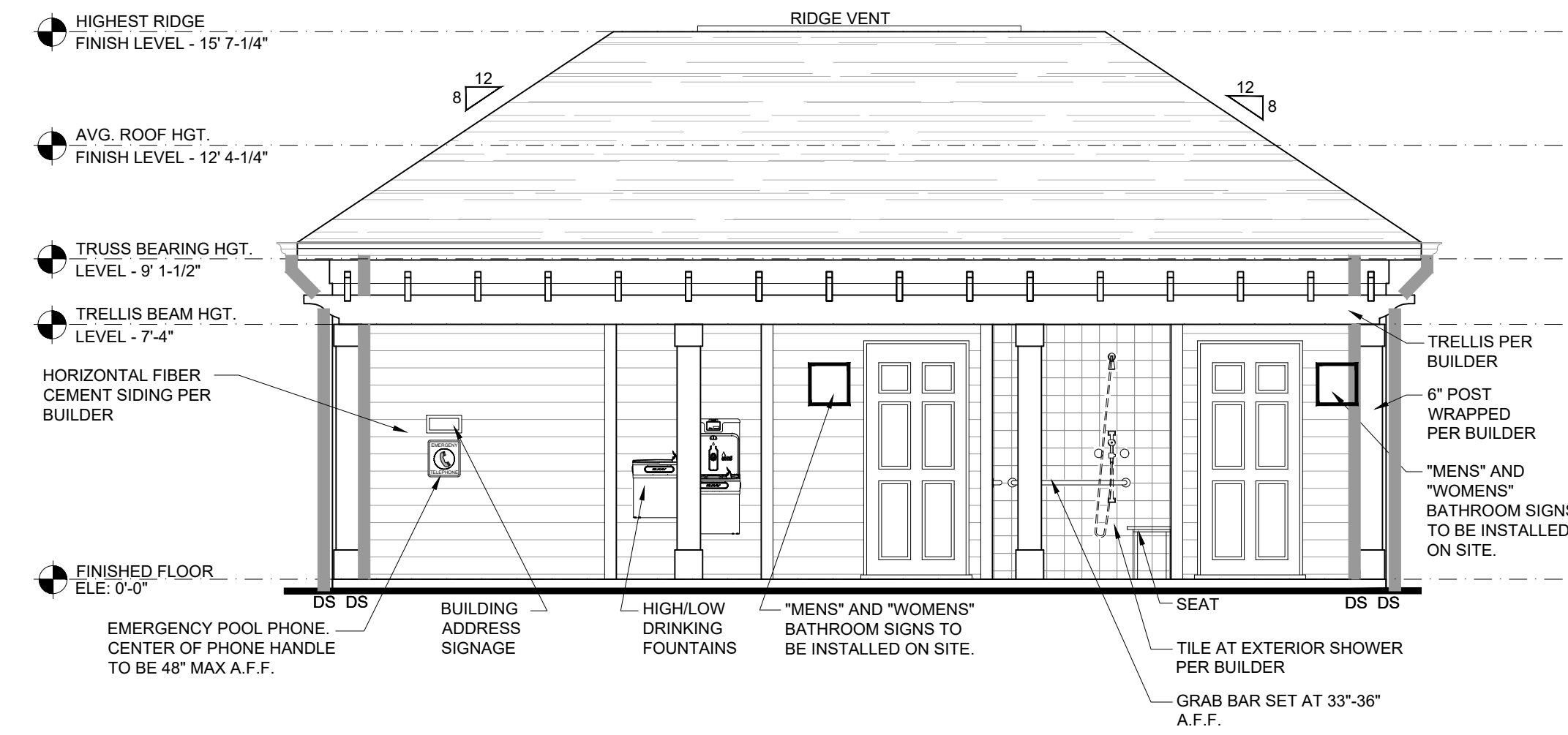
**4 POOL HOUSE - DOOR ELEVATIONS**  
SCALE: NOT TO SCALE

**DOOR SCHEDULE**

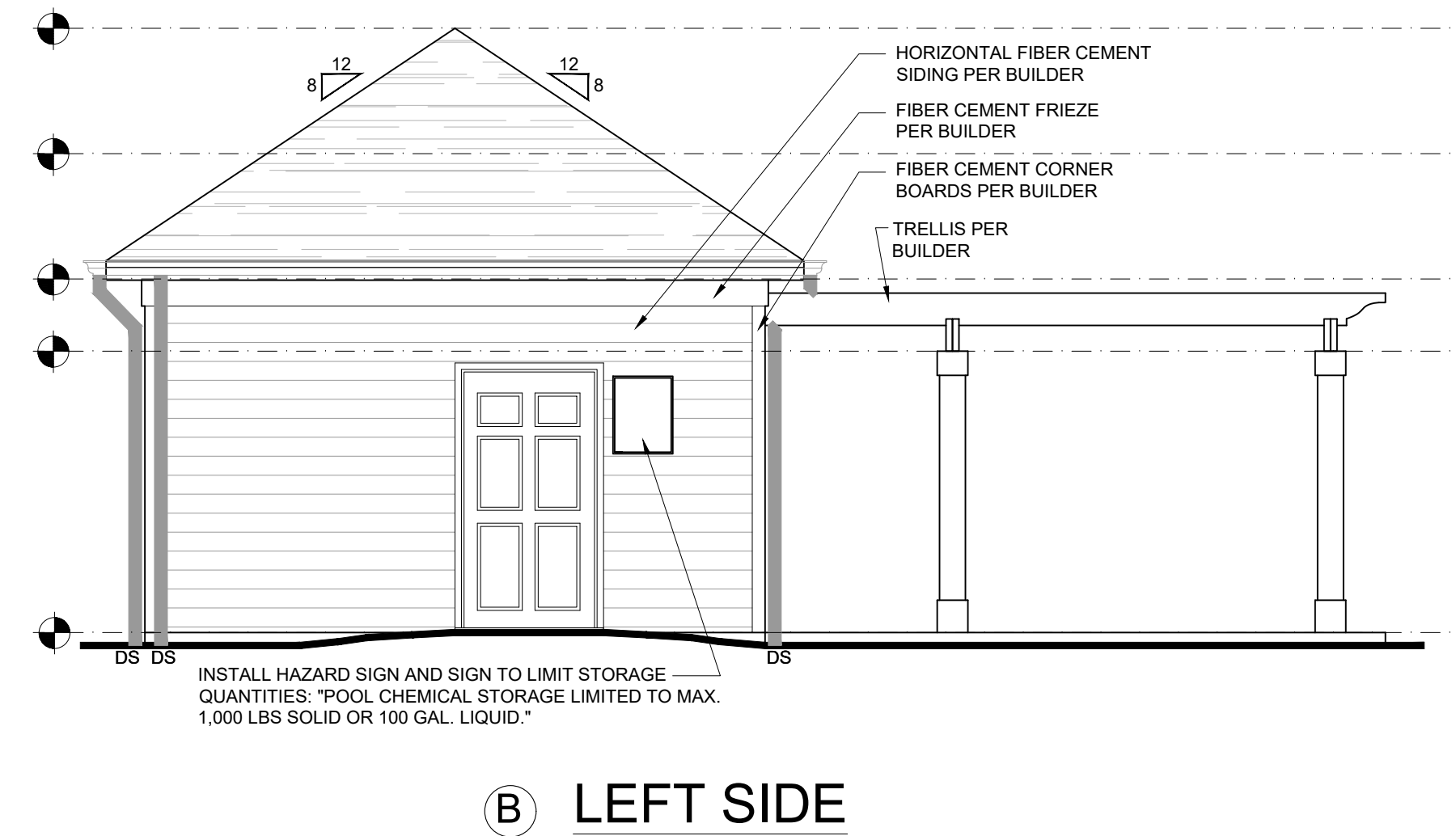
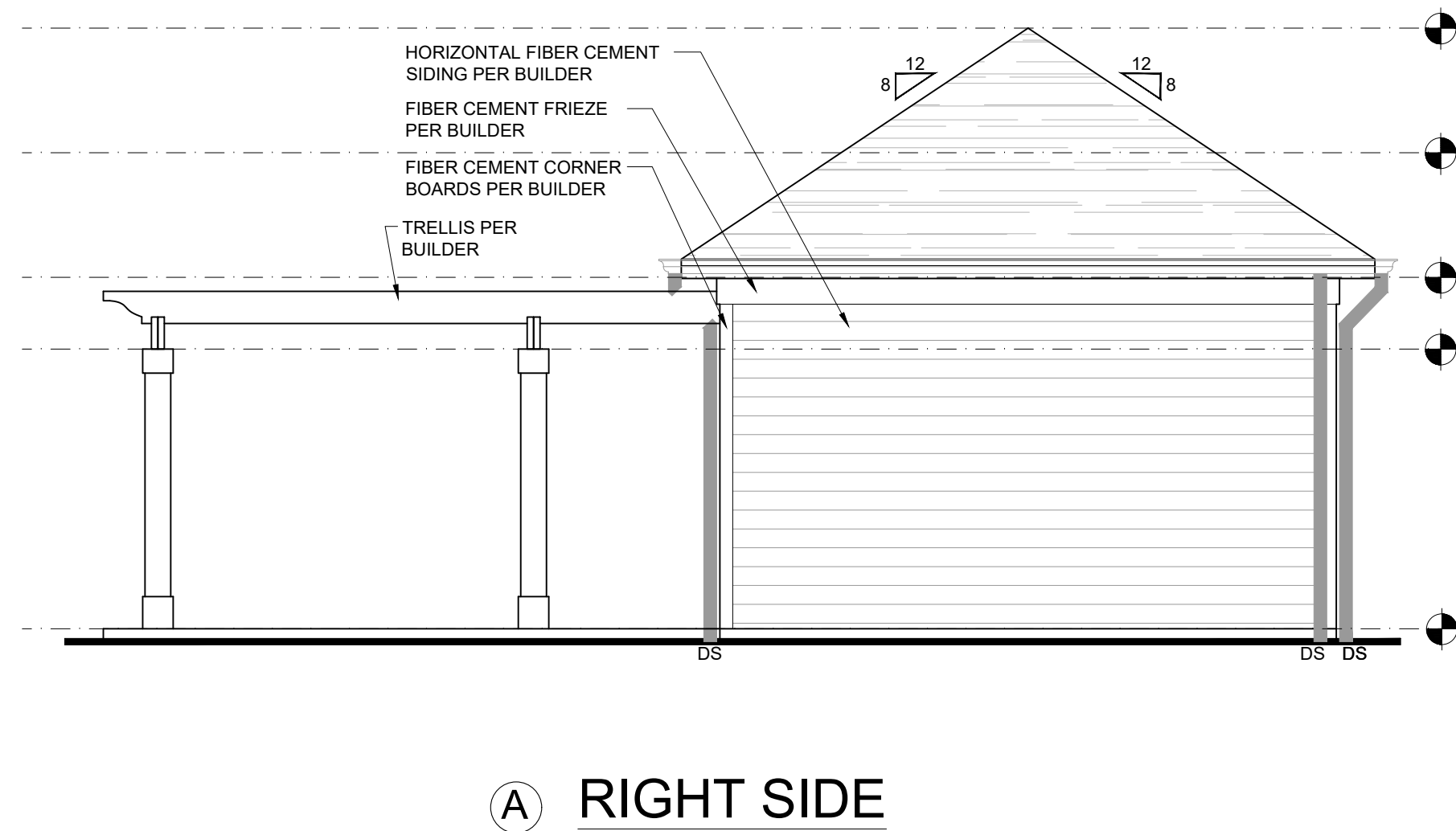
DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	CONSTRUCTION	REMARKS	INSTRUCTIONS
1	3'-0"	6'-8"	1 1/2"	D1	INSUL. MET. & PANEL METAL STALL DOOR FOAM-FILL HOLLOW METAL	TEMPERED GLASS INSTALL @ ACCESSIBLE LEVEL ONLY. ACCESSIBLE THRESHOLD @ 1/2" LEVEL WEATHER STRIPPING	PROVIDE CLOSER AND PUSH/PULL PLATES
2	3'-0"	6'-8"	1 1/2"	D3			DOOR HEIGHT PER MANF. SPECS.
3	2'-4"	6'-8"	1 1/2"	D3			DOOR HEIGHT PER MANF. SPECS.
4	3'-6"	6'-8"	1 1/2"	D1			
5	2'-2-6"	6'-8"	1 1/2"	D2			
6	2'-4"	6'-8"	1 1/2"	D1			PROVIDE STOREFRONT LOCKSET

**3 POOL HOUSE - DOOR SCHEDULE**  
SCALE: NOT TO SCALE

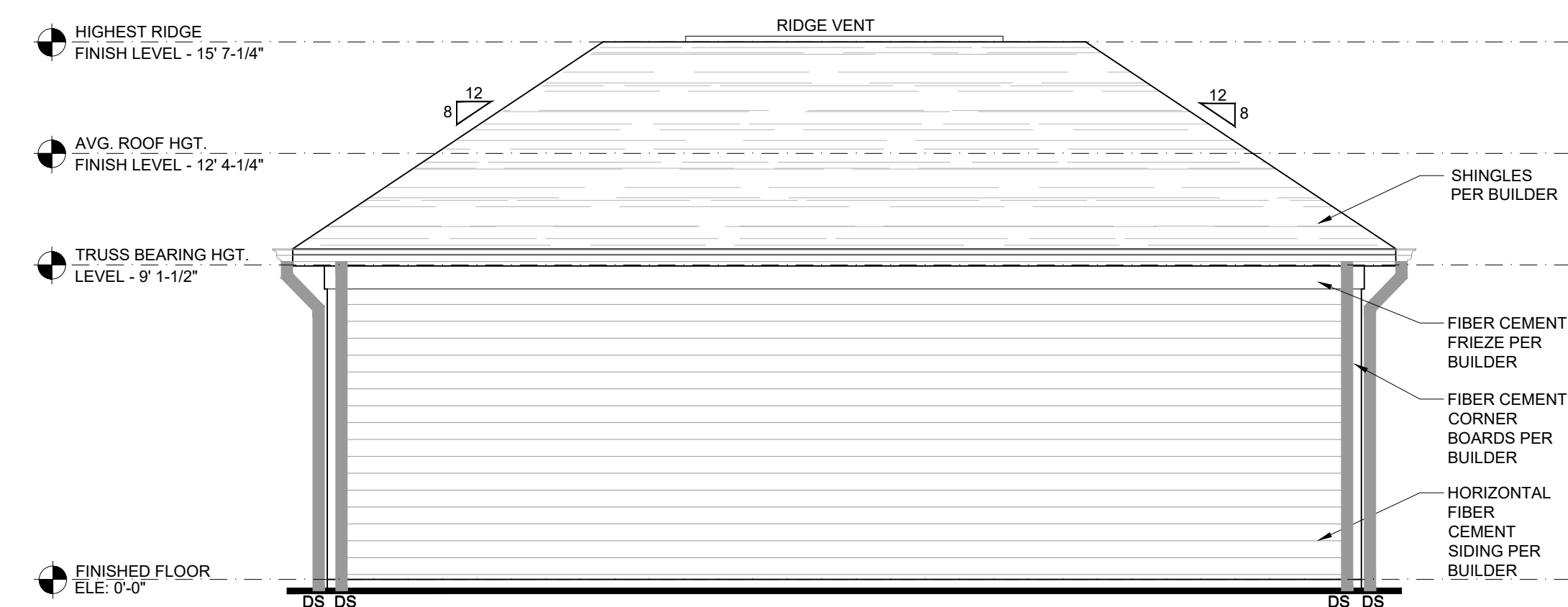
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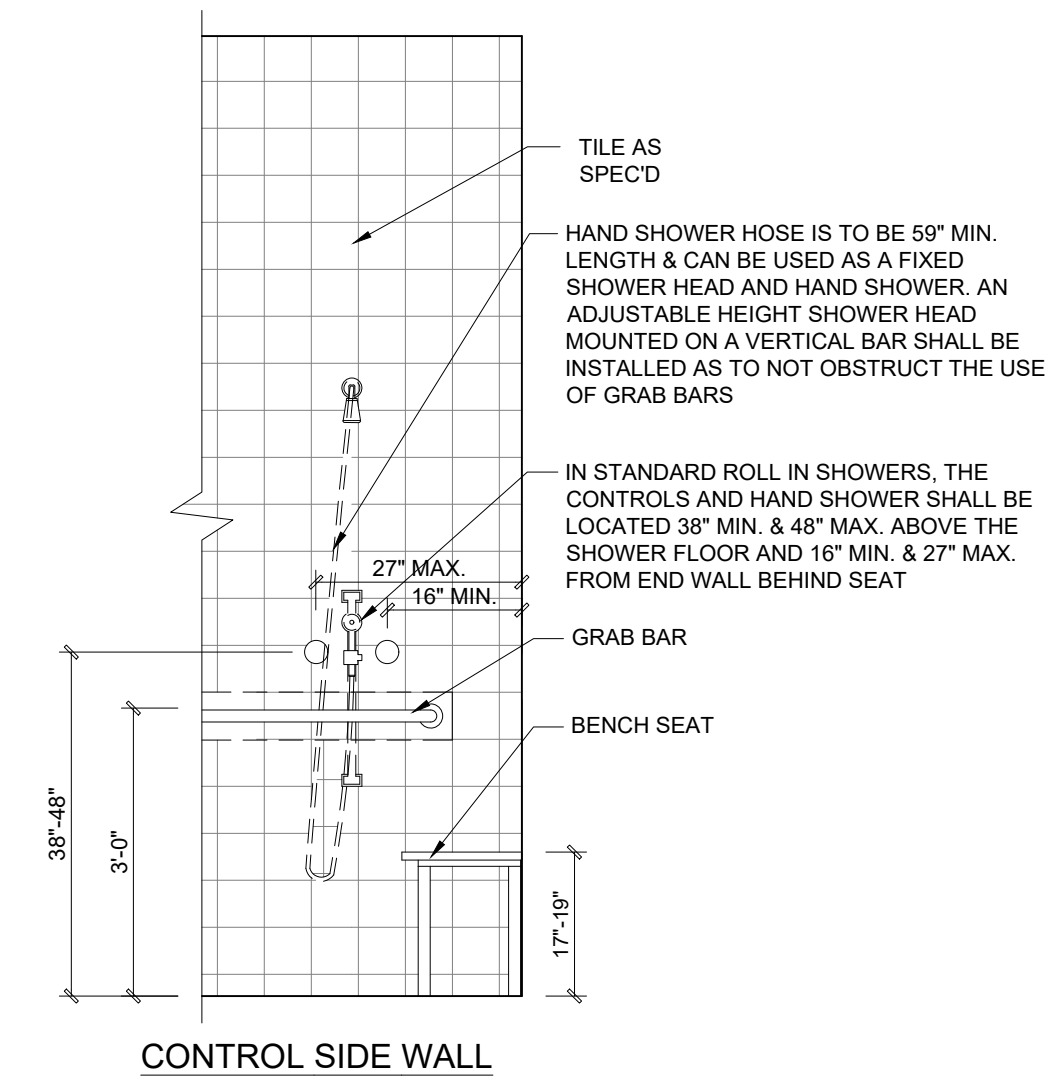
3 POOL HOUSE - FRONT ELEVATIONS  
 SCALE: 1/4" = 1'-0"



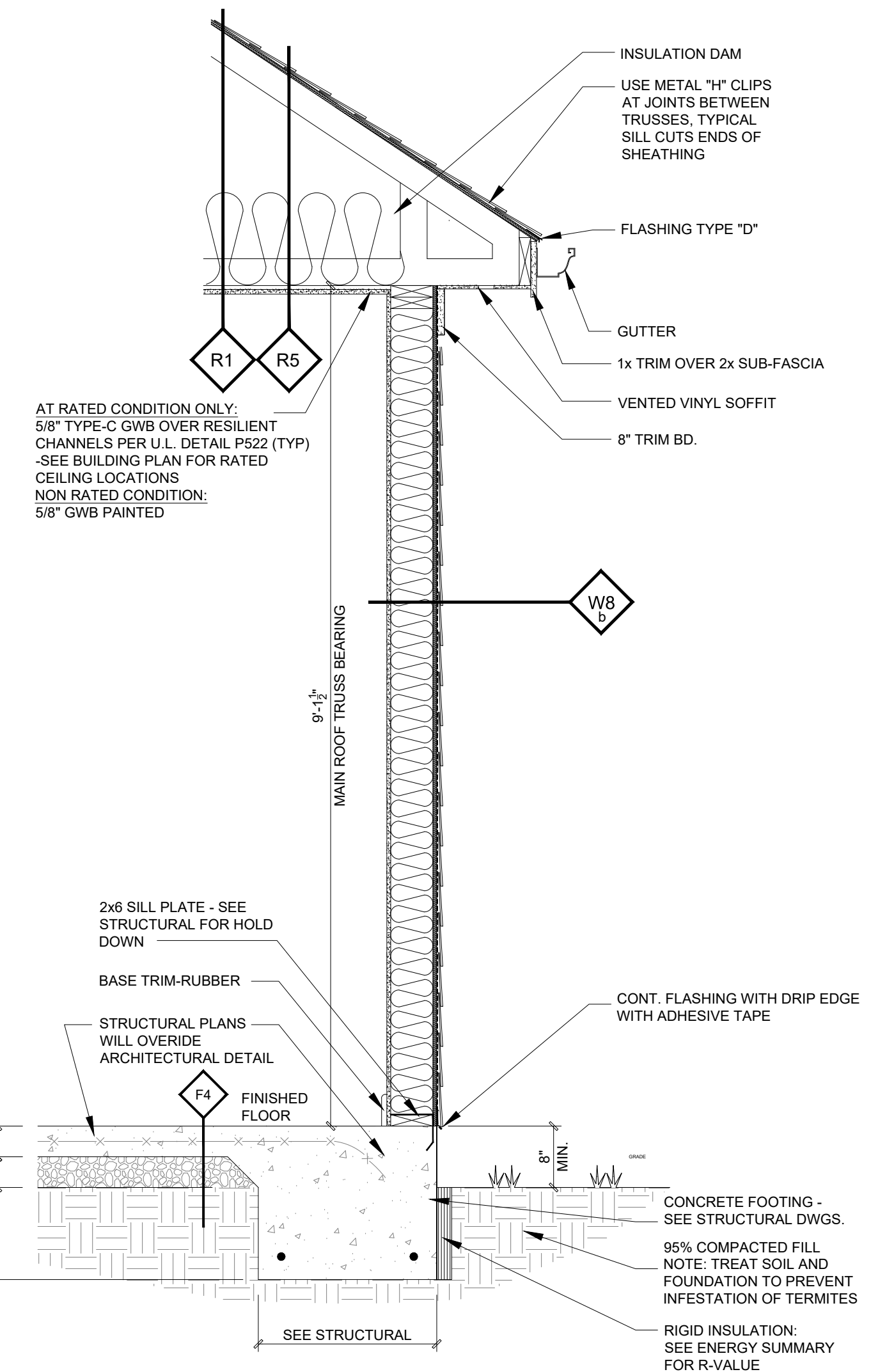
2 POOL HOUSE - SIDE ELEVATIONS  
 SCALE: 1/4" = 1'-0"



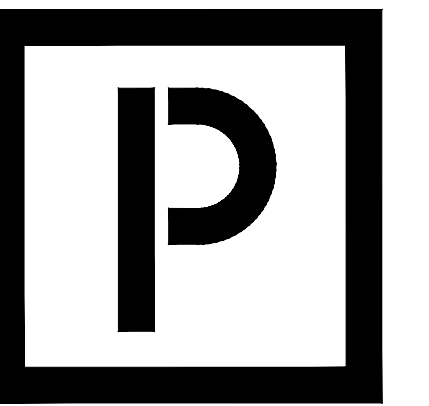
1 POOL HOUSE - REAR ELEVATION  
 SCALE: 1/4" = 1'-0"



5 POOL HOUSE - SHOWER ELEVATION  
 SCALE: 1/2" = 1'-0"

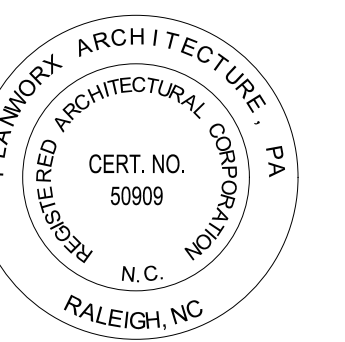


4 POOL HOUSE - WALL SECTION  
 SCALE: 3/4" = 1'-0"



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Cape Overlook Pool House  
 Triangle Land Partners  
 Lillington, NC  
 Issued for Permit (10-25-24)



10-25-2024

PROGRESS DATE:	ISSUE DATE:	REVISIONS:	INITIALS	DESCRIPTION
10-25-2024	10-25-2024			

PROJECT NO: 002824

DRAWN BY: BB

CHECKED BY: DS

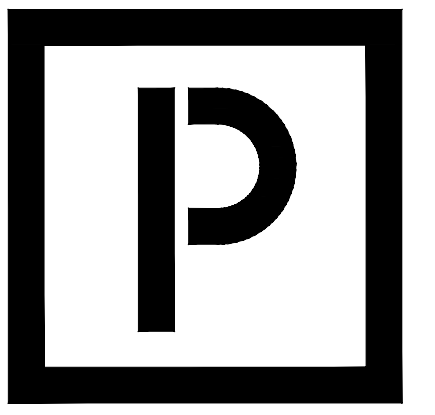
SHEET TITLE:

Pool House Elevations & Wall Sections

SHEET NUMBER:

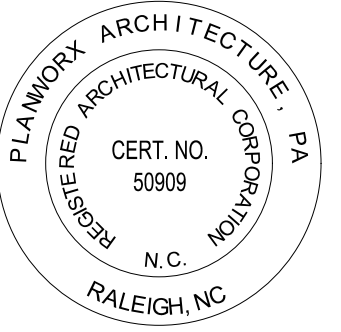
**A200**

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Issued for Permit (10-25-24)



10-25-2024

PROGRESS DATE:	ISSUE DATE:	REVISIONS NUMBER:	INITIALS	DESCRIPTION
10-25-2024				

PROJECT NO: **002824**

DRAWN BY: BB

CHECKED BY: DS

SHEET TITLE:

Pool House Enlarged Plans & Interior Elevations

SHEET NUMBER:

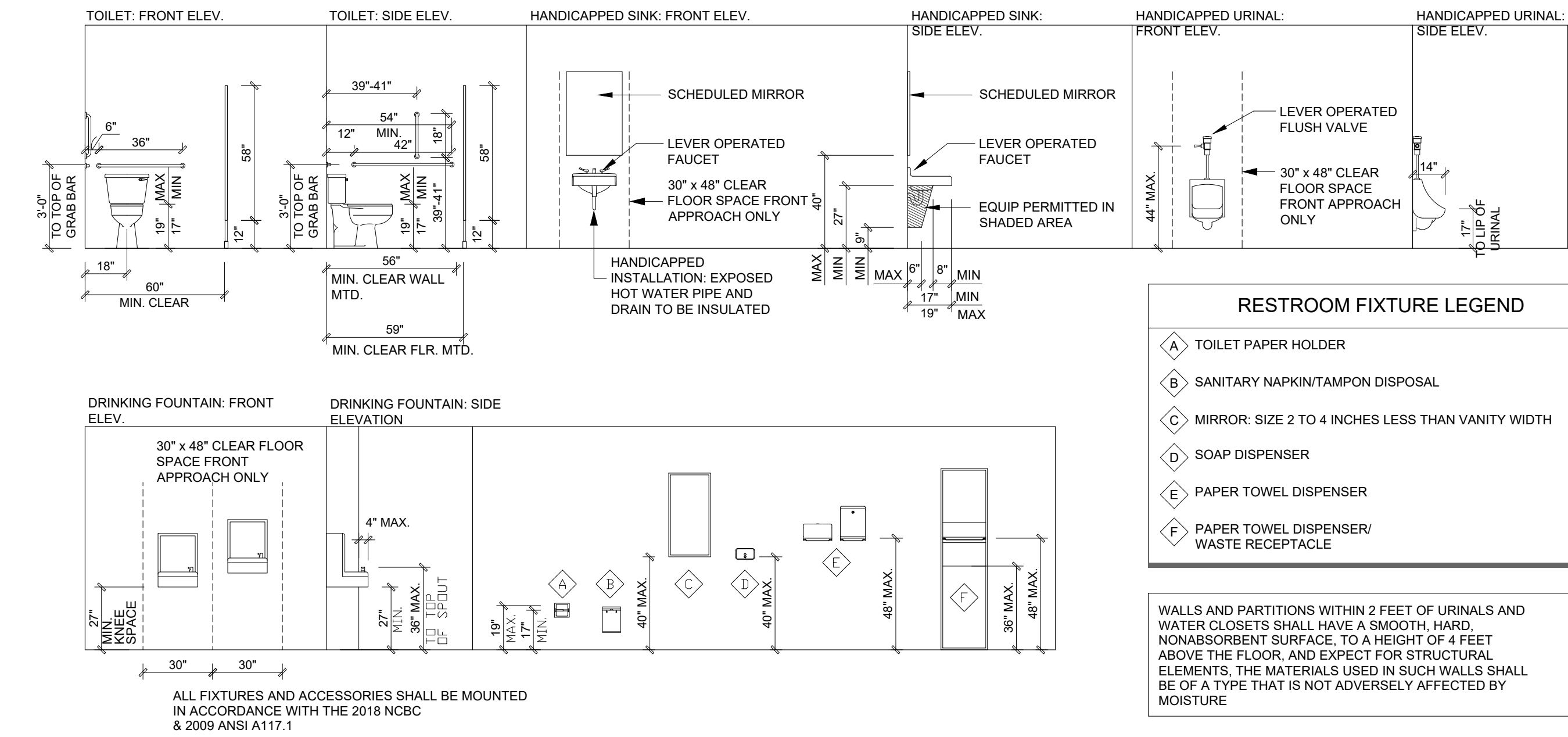
**A400**

**FLOOR CLEARANCES**

1	CLEAR FLOOR SPACE 30" X 48"
2	LAVATORY CLEAR FLOOR SPACE 30" X 48"
3	WATER CLOSET CLEAR FLOOR SPACE 60" X 59"
4	60° TURNING RADIUS

**RESTROOM FIXTURE LEGEND**

A	TOILET PAPER HOLDER
B	SANITARY NAPKIN/TAMPON DISPOSAL
C	MIRROR: SIZE 2 TO 4 INCHES LESS THAN VANITY WIDTH
D	SOAP DISPENSER
E	PAPER TOWEL DISPENSER
F	PAPER TOWEL DISPENSER/WASTE RECEPTACLE

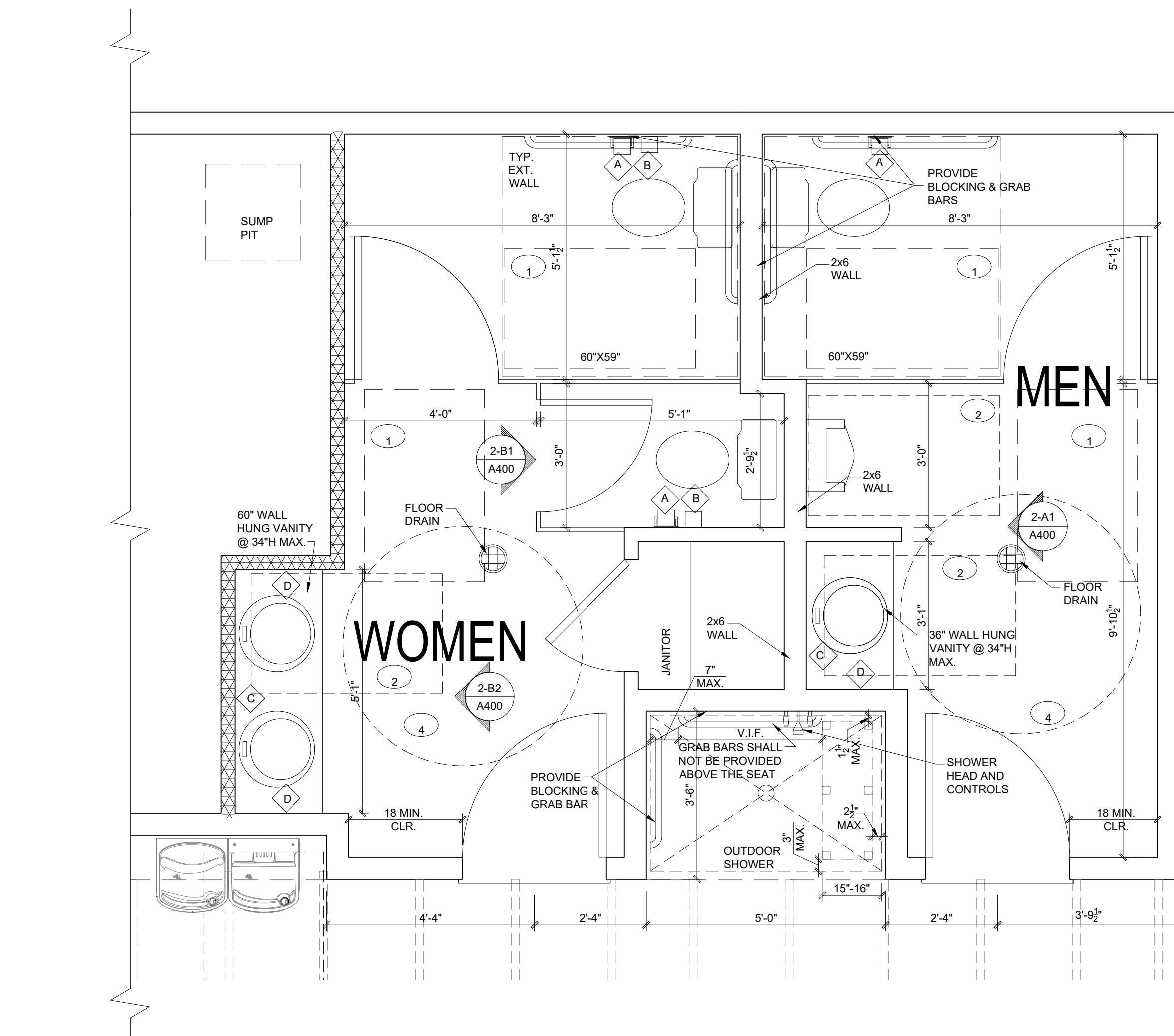
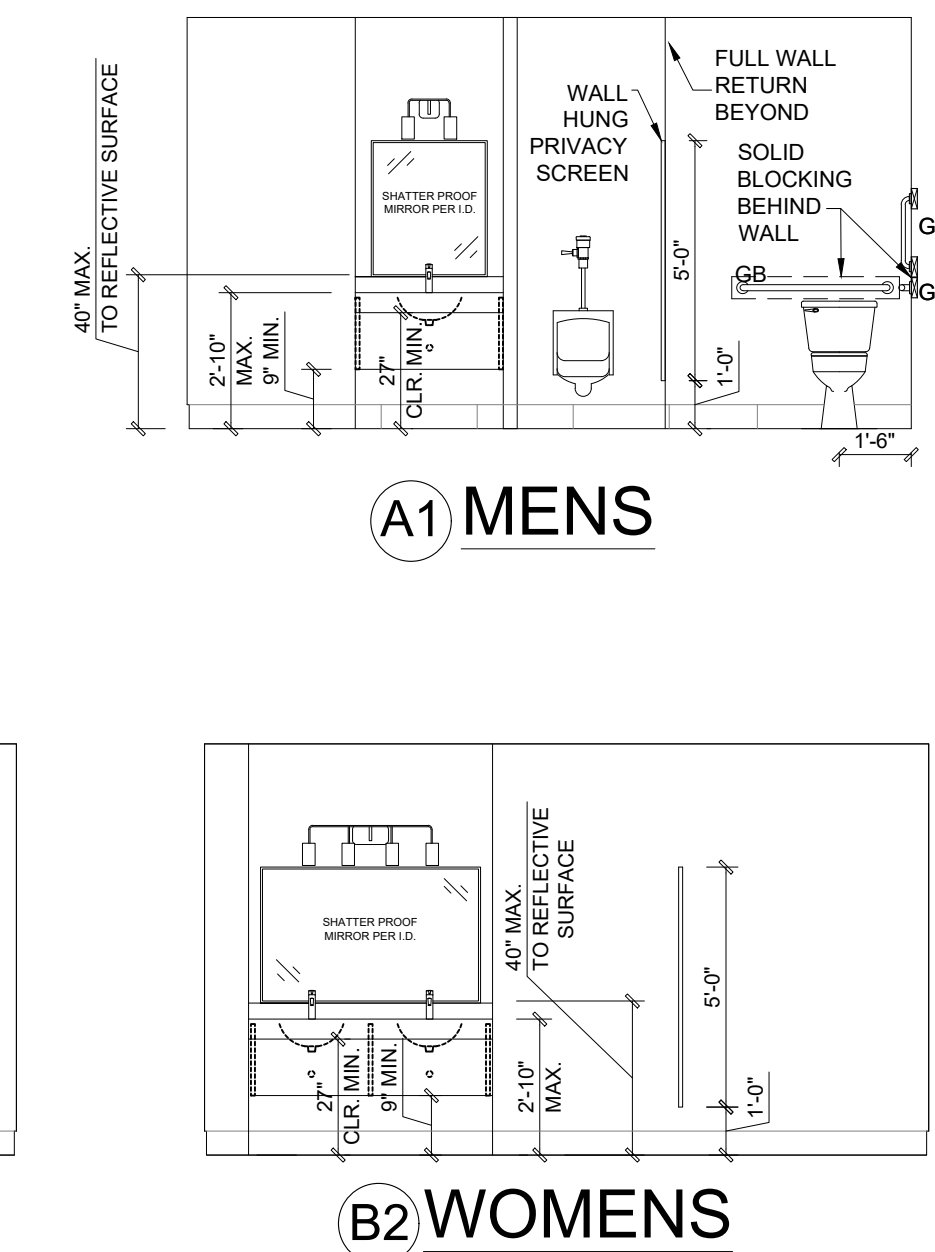


**3 POOL HOUSE - FIXTURES & ACCESSORY ELEVATIONS**

SCALE: 1/4" = 1'-0"

**2 POOL HOUSE - BATH ELEVATIONS**

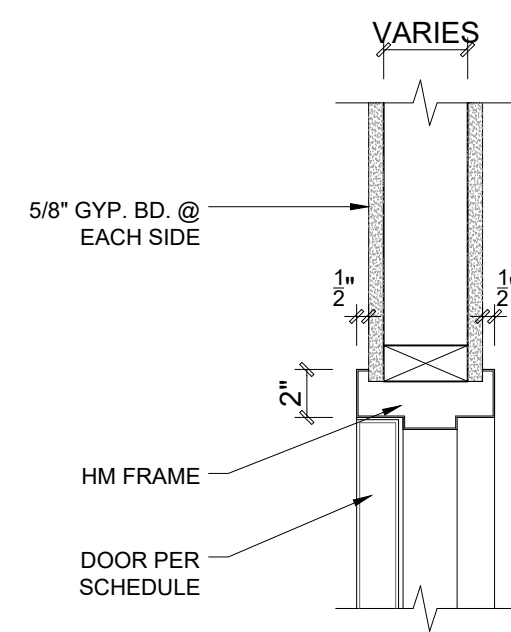
SCALE: 1/4" = 1'-0"



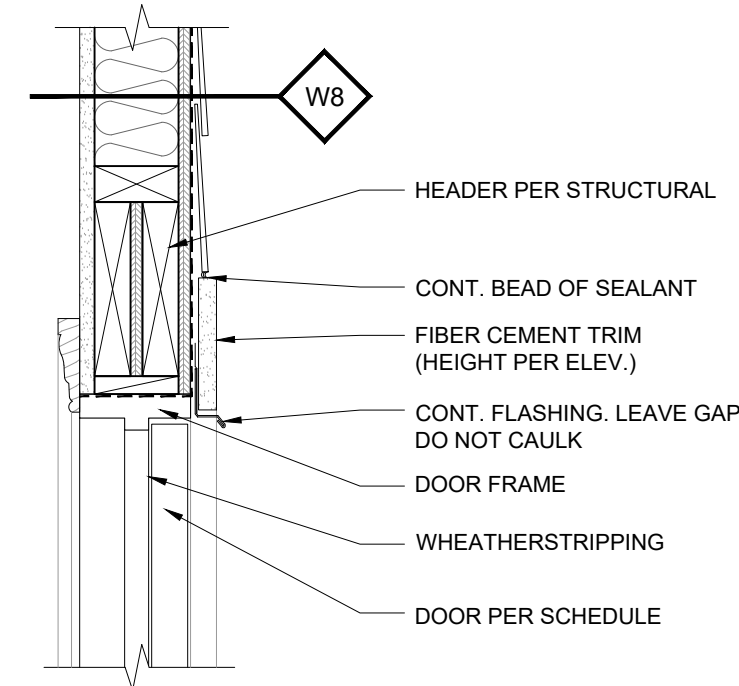
**1 POOL HOUSE - ENLARGED BATH & SHOWER PLANS**

SCALE: 1/2" = 1'-0"

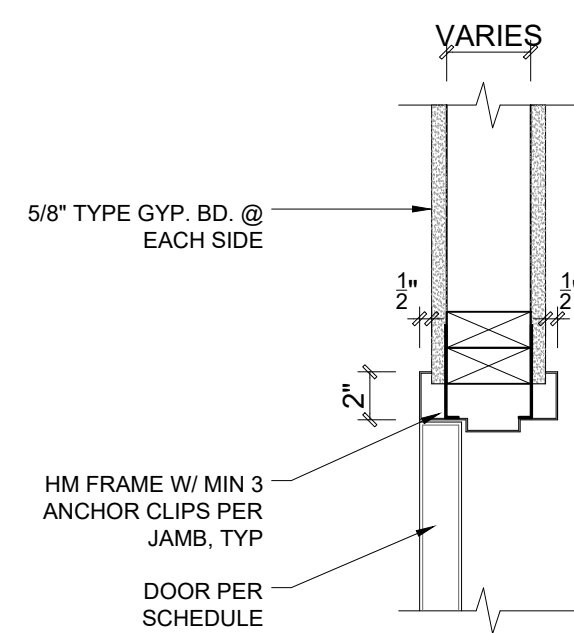
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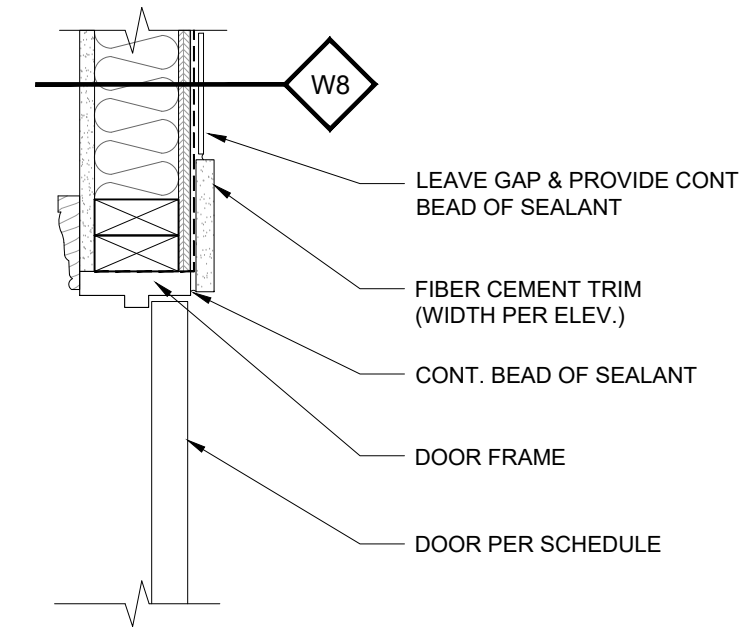
1 INTERIOR HM DOOR HEADER  
SCALE: 1-1/2" = 1'-0"



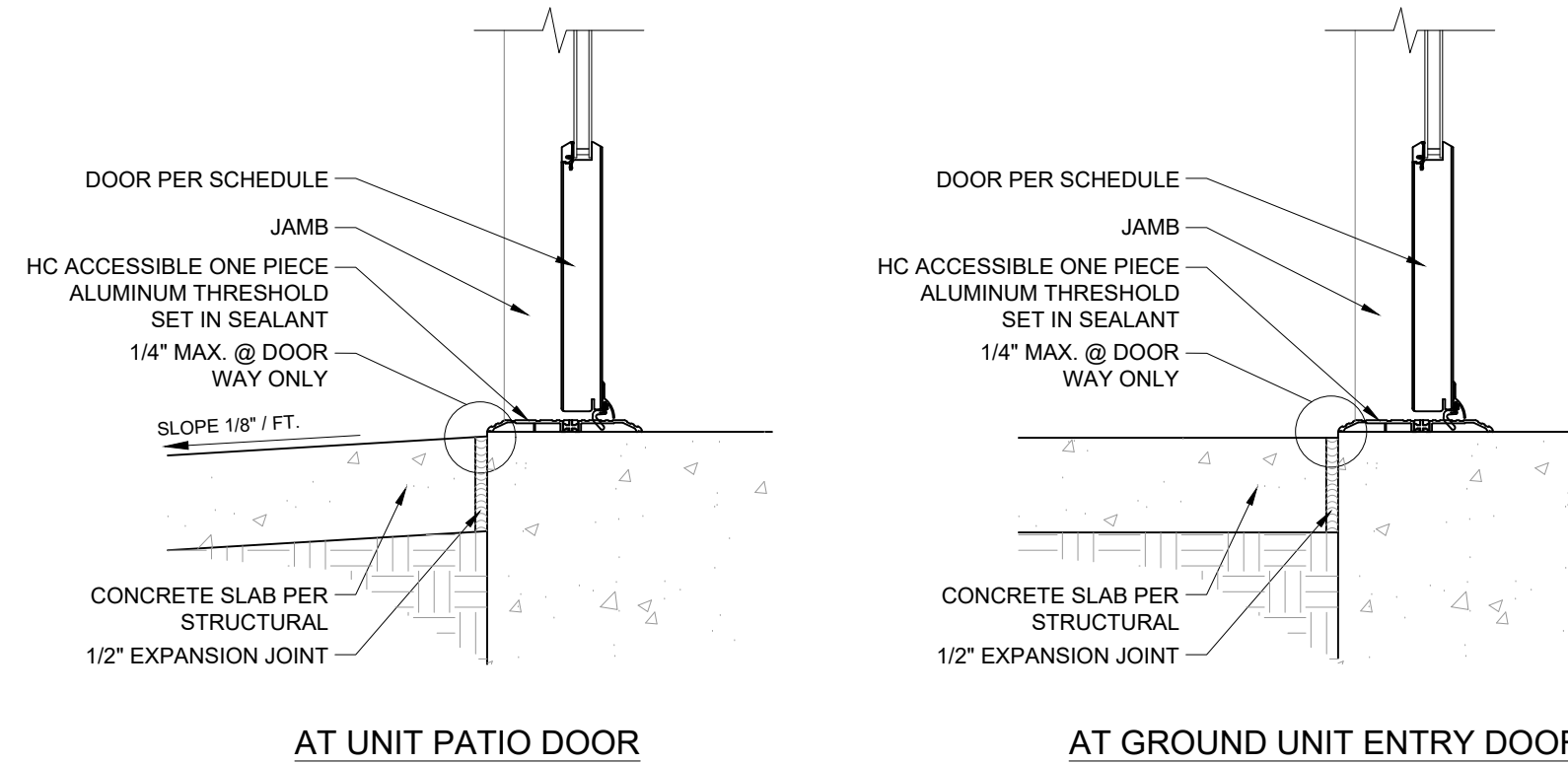
3 EXTERIOR DOOR HEADER  
SCALE: 1-1/2" = 1'-0"



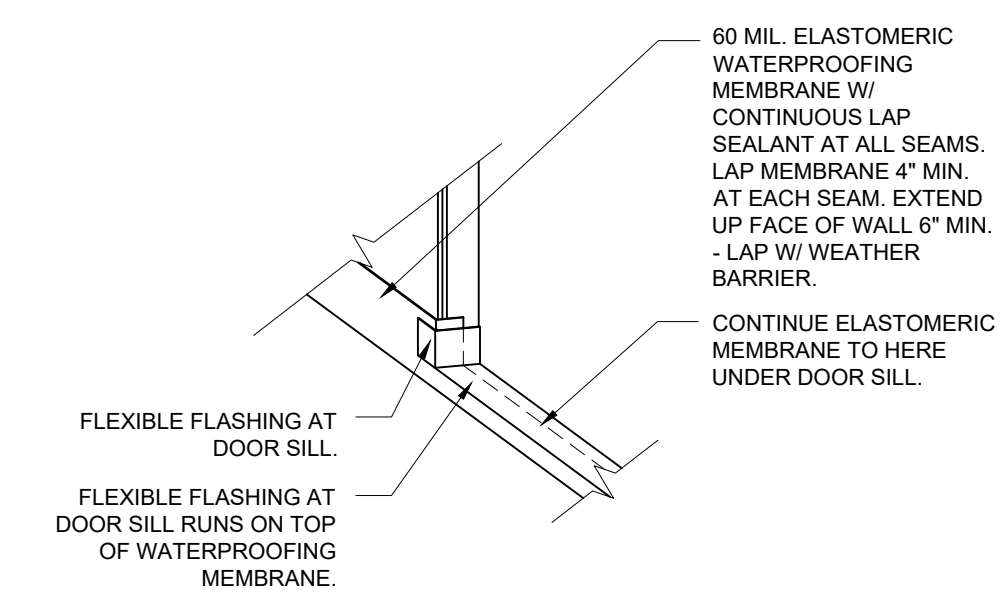
2 INTERIOR HM DOOR JAMB  
SCALE: 1-1/2" = 1'-0"



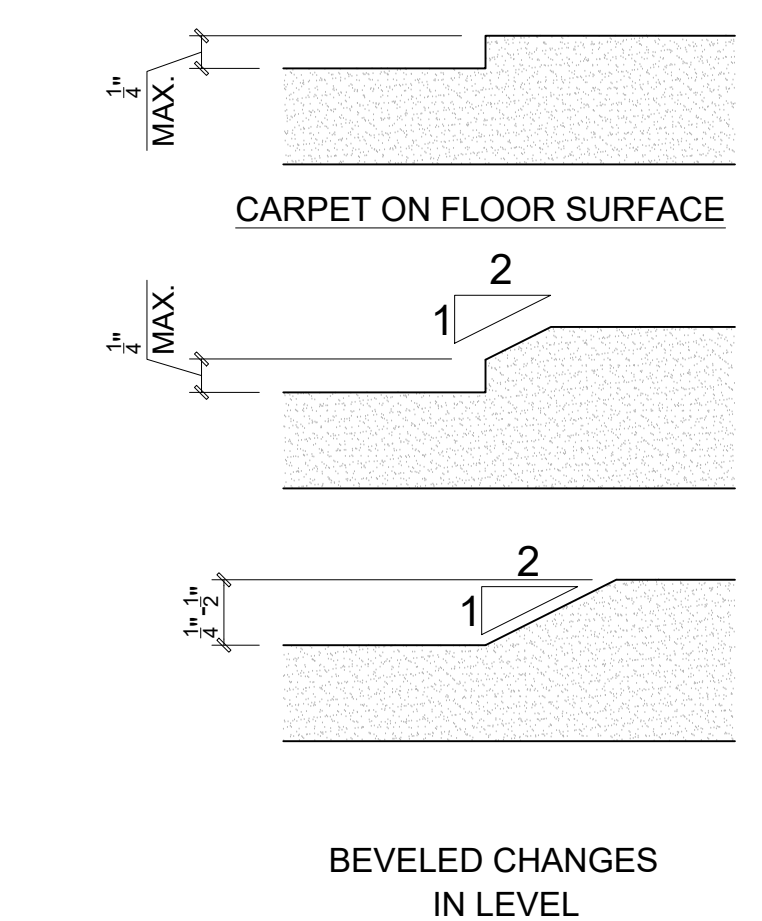
4 EXTERIOR DOOR JAMB  
SCALE: 1-1/2" = 1'-0"



5 EXTERIOR DOOR SILL  
SCALE: 1-1/2" = 1'-0"



6 EXT. DOOR SILL FLASHING  
SCALE: 1-1/2" = 1'-0"



**FLASHING REQUIRED AT THE FOLLOWING LOCATIONS (AT MIN)**

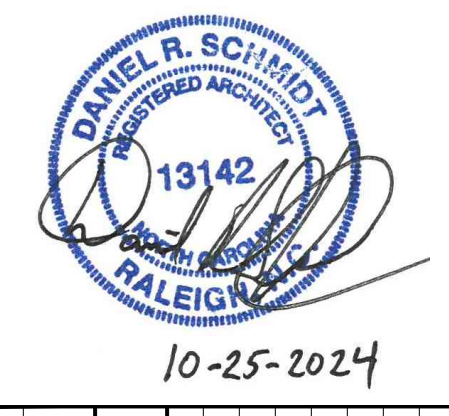
- VALLEY FLASH MIN. 12" UP EACH SLOPE, AND INSTALL SPLASH DIVERTER RIB.
- STEP FLASH AT ROOF/WALL INTERSECTIONS, MIN. 8" VERTICALLY.
- COLLAR OR STEP FLASH AT ALL ROOF PENETRATIONS.
- UNDER BRICK INSTALLED ON TOP OF ROOF SURFACE.
- UNDER EXTERIOR FINISH MATERIAL AT ADJOINING DECK SURFACE.
- ALL WINDOW / DOOR HEADS & JAMBS.
- ALL WINDOW SILLS AND DOOR THRESHOLDS
- MASONRY / FRAME WALL INTERSECTIONS
- OTHER AREAS AS PER PROPER CONSTRUCTION PRACTICE



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Cape Overlook Pool House  
 Triangle Land Partners  
 Lillington, NC  
 Issued for Permit (10-25-24)

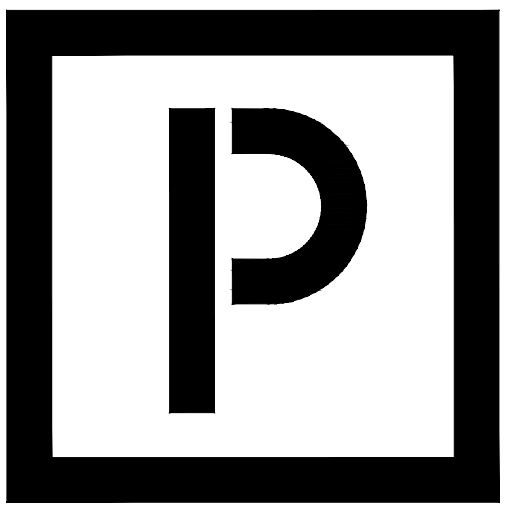


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PROJECT NO: 002824  
 DRAWN BY: BB  
 CHECKED BY: DS  
 SHEET TITLE: Enlarged Door & Window Details

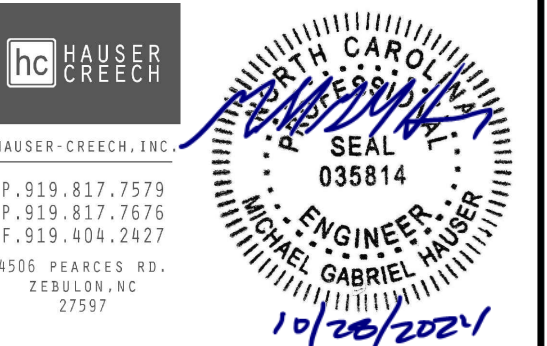
SHEET NUMBER: **A600**

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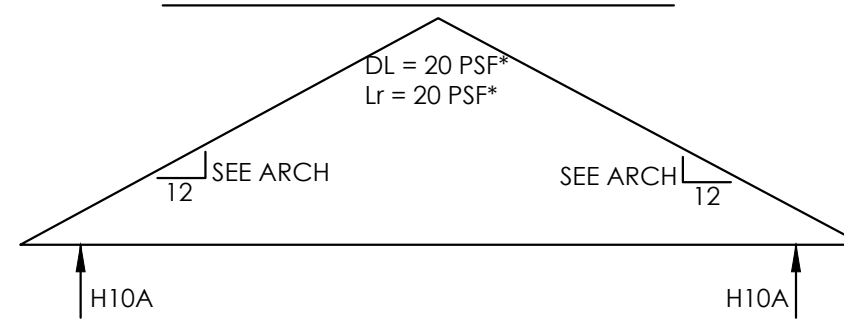


**ROOF FRAMING NOTES:**

- ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION.
- TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
- THE CONTRACTOR MUST VERIFY THAT ALL LATERAL BRACING REQUIRED FOR TRUSS WEBS IS INSTALLED PER THE TRUSS SHOP DRAWINGS.
- REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
- ALL TRUSS TO TRUSS CONNECTIONS SHALL BE SPECIFIED BY THE TRUSS DESIGNER AND SHALL BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS.
- ROOF SHEATHING SHALL BE 7/16" OSB APA RATED, EXPOSURE 1 WITH "H" CLIPS AT UNSUPPORTED EDGES BETWEEN TRUSSES. SEE DETAIL 2/S301 FOR ROOF DECK NAILING PATTERN.
- VERIFY LOCATION AND AMOUNTS OF ALL HEADERS.
- SEE DETAIL 6/S301 FOR TOP PLATE SPLICE DETAIL.
- SEE DETAILS 3/S301 AND 4/S301 FOR PERMANENT ROOF TRUSS BRACING. REFER TO TRUSS SHOP DRAWINGS FOR TRUSS BRACING REQUIREMENTS. SUBMIT ROOF TRUSS SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- VERIFY MIN. (2) 2X STUDS BELOW ALL GIRDER TRUSS BEARING POINTS PROVIDE LGT TIE DOWN (U.N.O.).
- ANY TRUSS TIE DOWN SUBSTITUTIONS MUST BE APPROVED BY THE EOR.

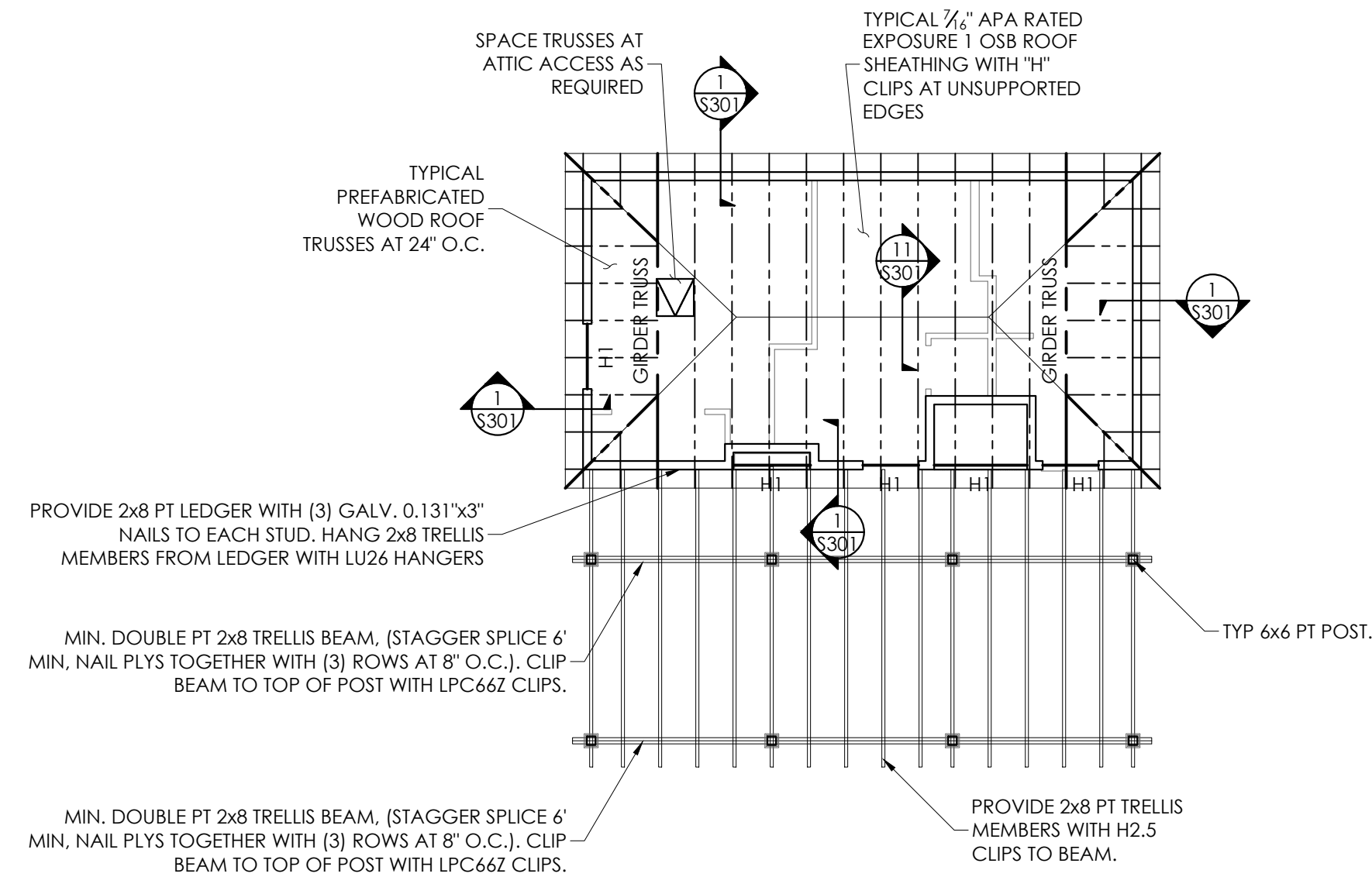
HEADER SCHEDULE			
TYPE	SIZE	NOTES	SUPPORT
H1	(3) 2x8 DROPPED	W/ (2) 1/2" PLYWOOD SPACER.	(1) JACK + (1) KING
INTERIOR NON-BEARING HEADERS ARE NOT LABELED ON THE FRAMING PLANS. FOR OPENINGS IN INTERIOR NON-BEARING WALLS PROVIDE THE FOLLOWING HEADERS:			
SPAN	SIZE	NOTES	
3'-2" MAX	2x4 FLAT	FACE NAIL TO FULL HT. JAMB STUD W/ (2) 1x4s	
4'-2" MAX	(2) 2x4	W/ (1) 1/2" PLYWOOD SPACER, (1) JACK + (1) KING	
8'-2" MAX	(2) 2x8	W/ (1) 1/2" PLYWOOD SPACER, (1) JACK + (1) KING	

**ROOF TRUSS PROFILES**



**TYP. ROOF TRUSS**

\* ALL TRUSS PROFILES ARE NOT SHOWN.  
 \* SEE S501 FOR TRUSS DESIGN CRITERIA  
 \* SEE DETAILS FOR TIE DOWNS  
 \* REFER TO STRUCTURAL DETAILS FOR TRUSS TIE DOWN REQUIREMENTS AND ADDITIONAL CONNECTION INFO.



**POOL HOUSE ROOF FRAMING**

SCALE: 1/8"=1'-0"

**ABBREVIATIONS:**

COL.	COLUMN
EX.	EXISTING
S.O.G.	SLAB ON GRADE
T.O.S.	TOP OF STEEL
T.O.P.	TOP OF PARAPET
T.O.M.	TOP OF MASONRY
O.C.	ON CENTERS SPACING
T+B	TOP AND BOTTOM
F.F.E.	FINISH FLOOR ELEVATION
TYP.	TYPICAL
DEMO.	DEMOLITION
CONT.	CONTINUOUS
CMU	CONCRETE MASONRY UNIT
STD.	STANDARD
XS.	EXTRA STRONG
XXS.	DOUBLE EXTRA STRING
GALV.	GALVANIZED
HD	HOLD/DOWN
WWF	WIRE WELDED FABRIC
RT	ROOF TRUSS
GT	GIRDER TRUSS
FLRT	FLOOR TRUSS

**FOUNDATION NOTES:**

- PROVIDE 4" THICK CONCRETE SLAB ON GRADE REINFORCED WITH WWF 6x6 W1.4-W1.4, OVER MINIMUM 6 MIL POLY VAPOR BARRIER. SLAB MAY BE PLACED DIRECTLY OVER COMPACTED SUBGRADE OR OVER 4" POROUS BASE. REFER TO GEOTECHNICAL REPORT RECOMMENDATIONS. IT IS STRUCTURALLY ACCEPTABLE TO USE FIBER MESH AT A DOSING RATE OF 1.5 LBS/CUY IN LIEU OF WELDED WIRE FABRIC.
- ALL DIMENSIONS REFERENCED TO EDGE OF SLAB. VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
- SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
- REFER TO ARCH. DWGS. FOR LOCATIONS OF RECESSED OR SLOPED SLAB AREAS. PROVIDE POSITIVE DRAINAGE.
- SEE DETAIL 4/S201 FOR SLAB CONTROL JOINTS (C.J.). ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
- SEE FOOTING SCHEDULE/SECTIONS FOR SIZES AND REINFORCING.
- PROVIDE (1) 5'-0" LONG #5 BARS AT RE-ENTRANT CORNERS. PLACE AT MID-DEPTH OF SLAB.
- SEE STUD SCHEDULE FOR MEMBER SIZES
- "HD" INDICATED LOCATIONS OF HOLD/DOWNS. REFER TO HOLD/DOWN SCHEDULE FOR MORE INFORMATION. HOLD/DOWNS HAVE BEEN DESIGNED TO RESIST OVERTURNING MOMENTS FROM SEISMIC AND WIND LOADS. ANY SUBSTITUTIONS MUST BE APPROVED BY THE EOR.
- FOUNDATIONS ARE DESIGNED TO BEAR ON COMPETENT SOIL CAPABLE OF SUPPORTING 2000 PSF. SUBGRADE TO BE VERIFIED BY A GEOTECHNICAL ENGINEER.

**STUD SCHEDULE**

- PROVIDE 2x6 STUDS AT 16" O.C. AT EXTERIOR WALLS.
- PROVIDE MINIMUM 2x4 STUDS AT 16" O.C. AT INTERIOR WALLS, UNLESS ARCHITECTURAL PLANS INDICATE 2x6 STUDS.
- ALL STUDS AND PLATES ARE SYP No. 2

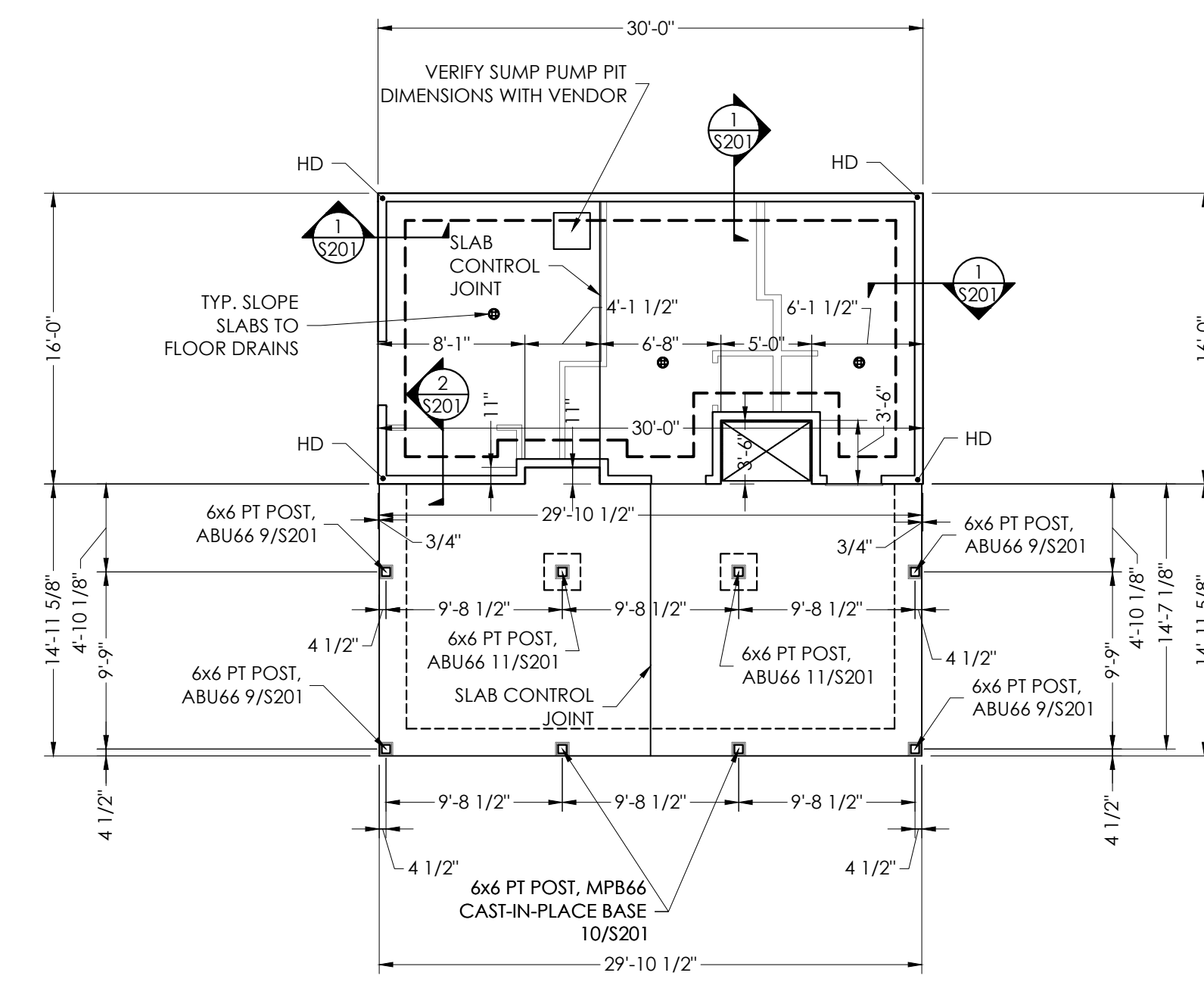
**SHEAR WALL SCHEDULE**

**EXTERIOR WALLS**  
 7/16" APA RATED OSB SHEATHING. **BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS.** PROVIDE MIN 8dS AT 4" O.C. AT ALL EDGES AND 12" O.C. AT FIELD

**HOLD/DOWN SCHEDULE (HD)**

LOCATION	TIE DOWN
FOUNDATION	(1) LIT20B TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (5' EMBED)

1. HOLD/DOWNS INDICATED IN TABLE SHALL BE USED AT ALL "HD" LOCATIONS.



**POOL HOUSE FOUNDATION PLAN**

SCALE: 1/8"=1'-0"



Cape Overlook Pool House

Triangle Land Partners

Lillington, North Carolina

PROGRESS DATE: 10.28.2024

PROJECT NO: 002824

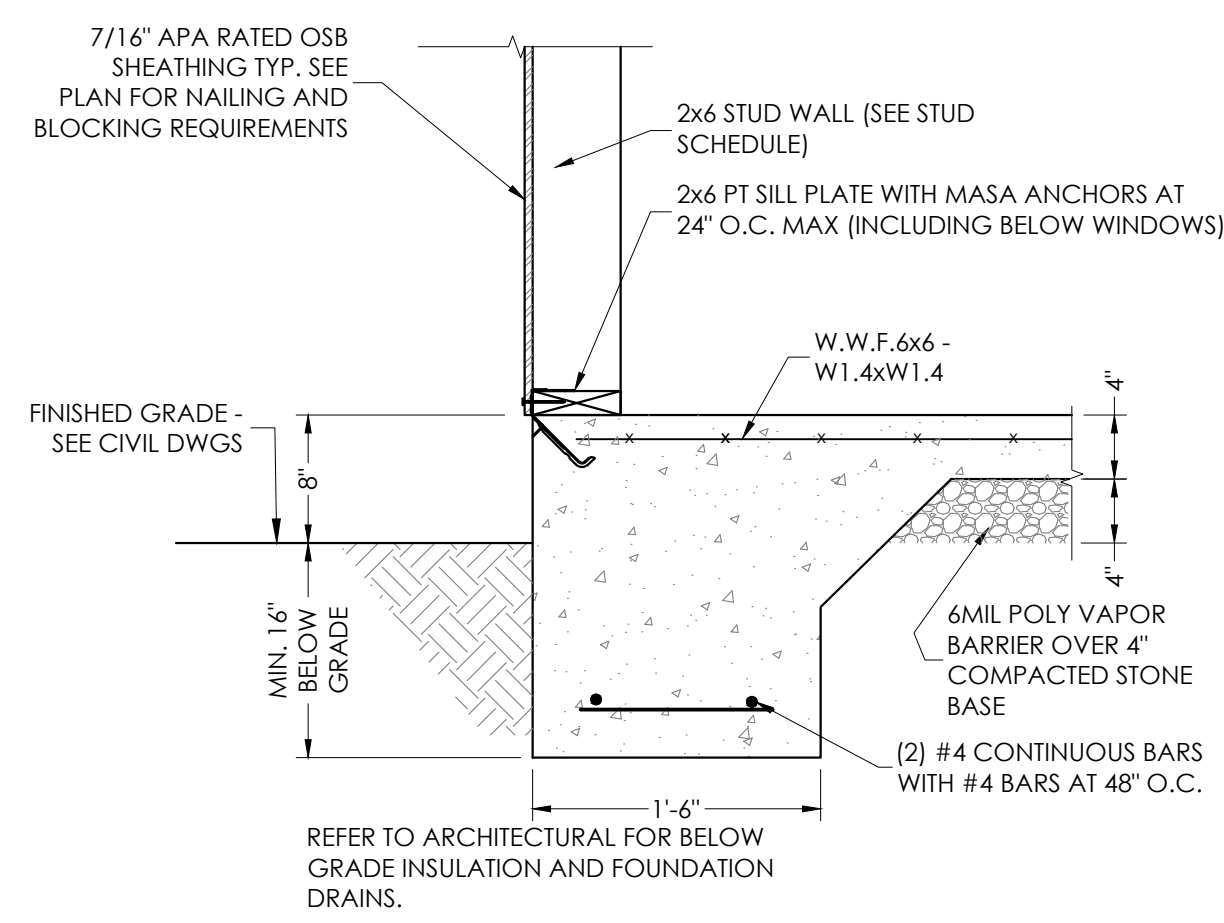
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CHECKED BY: MGH

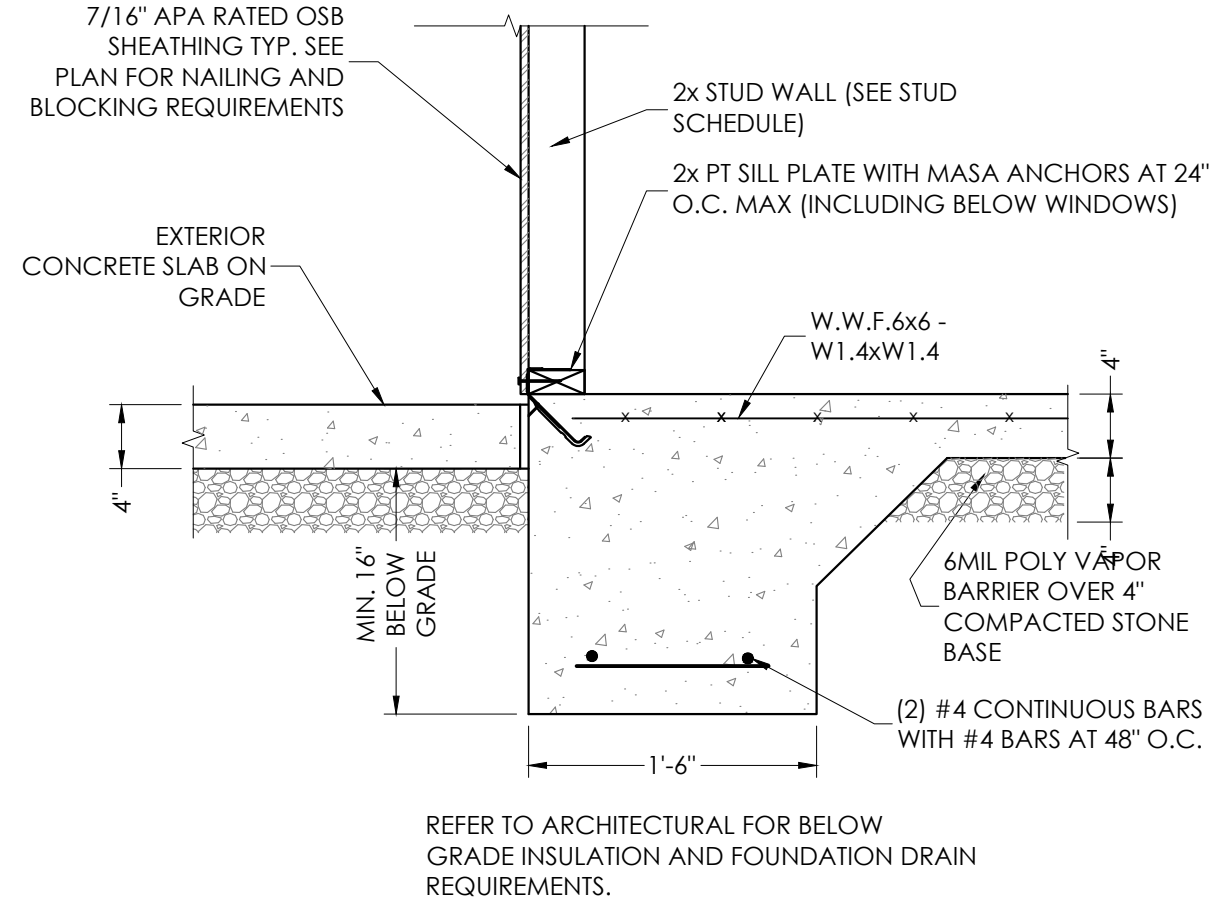
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SHEET NUMBER:

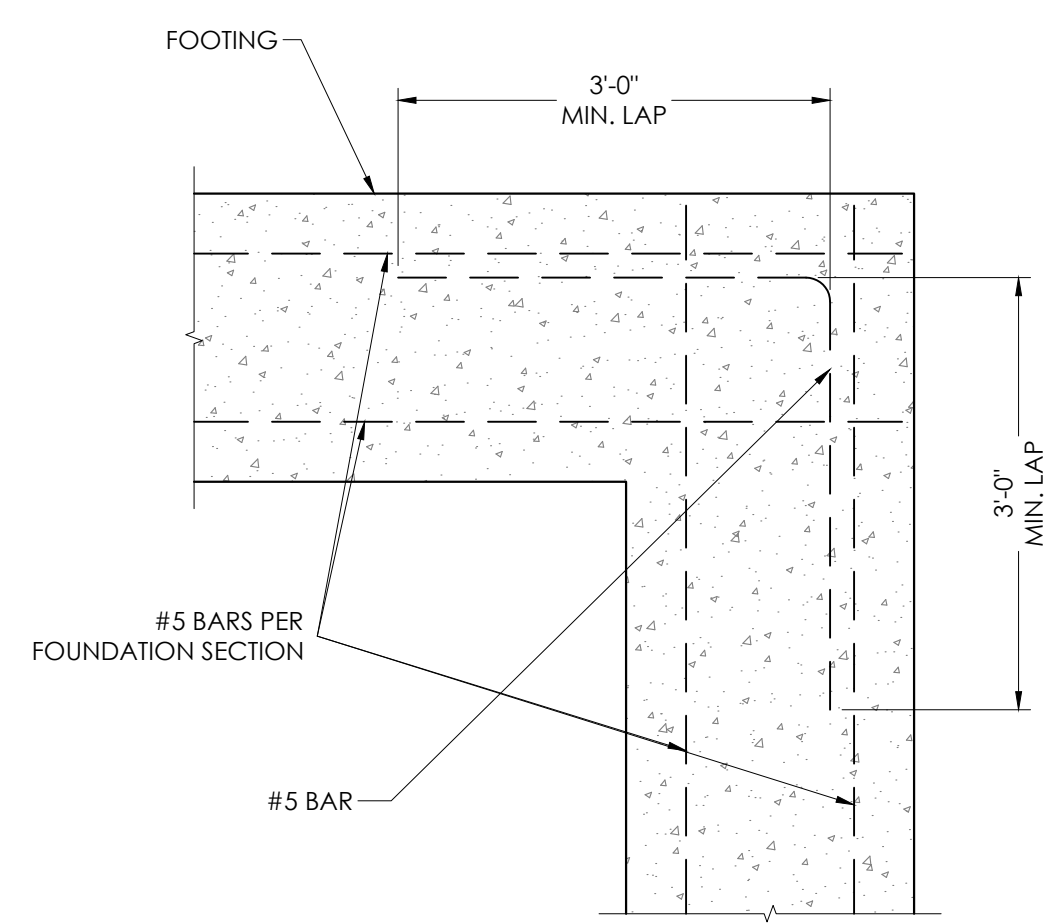
**S101**



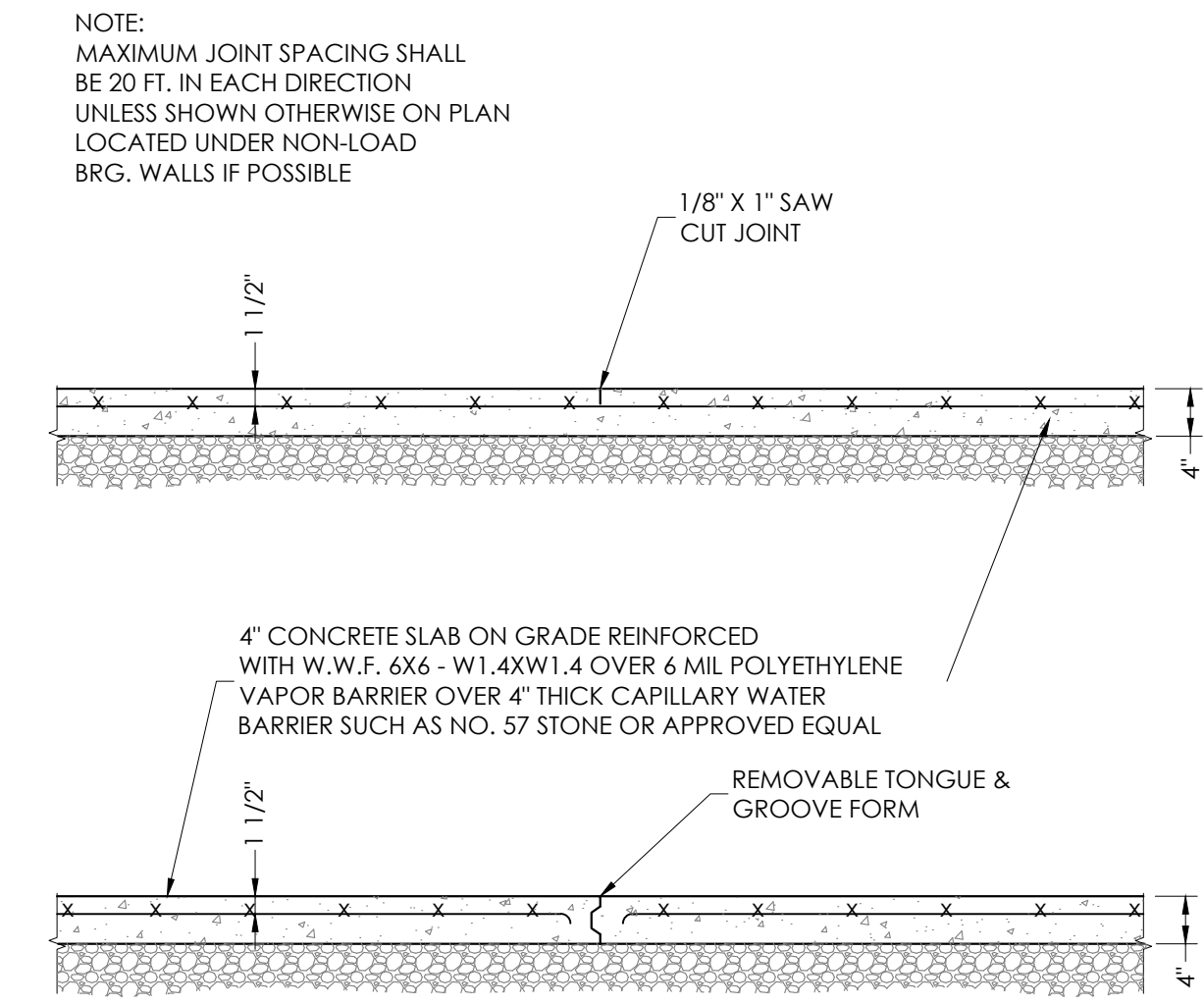
**1 EXTERIOR WALL SECTION**  
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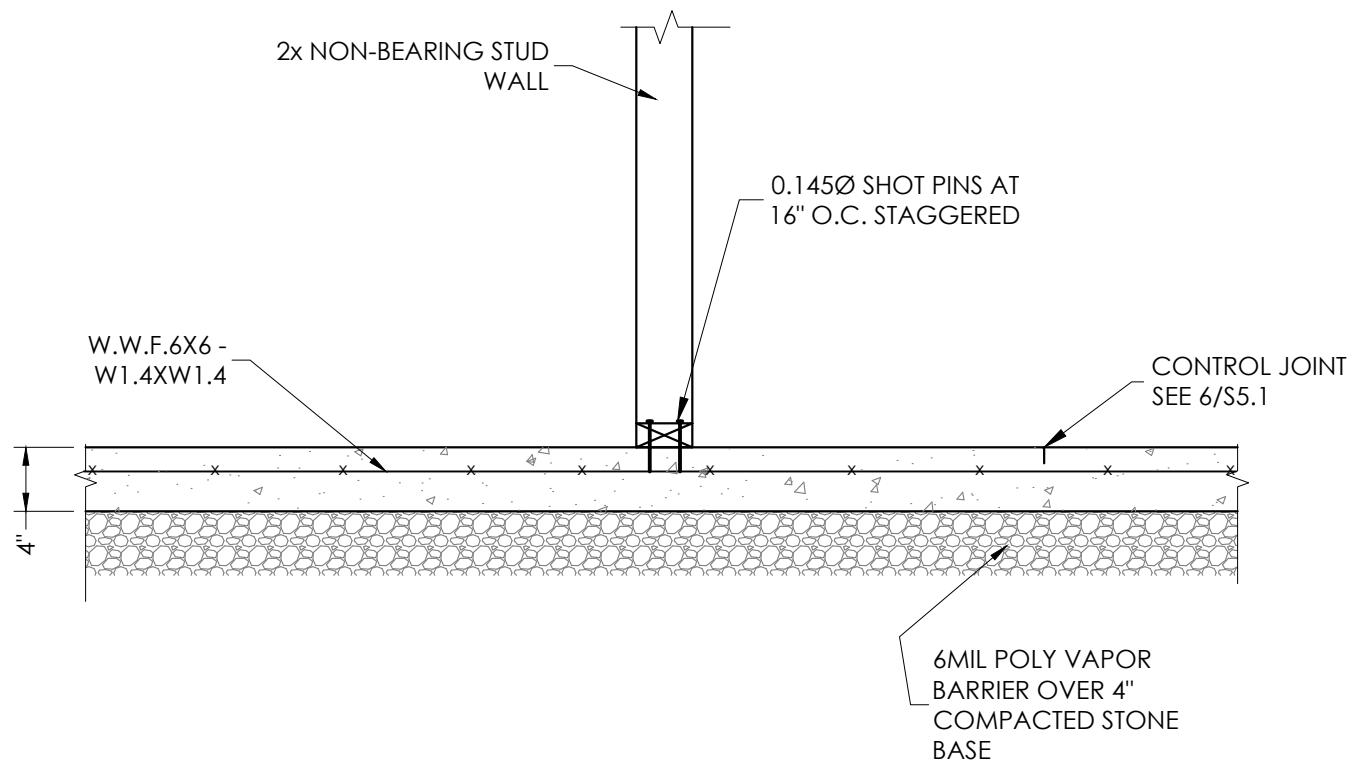
**2 WALL SECTION AT EXTERIOR CONCRETE SLAB**  
SCALE: NONE



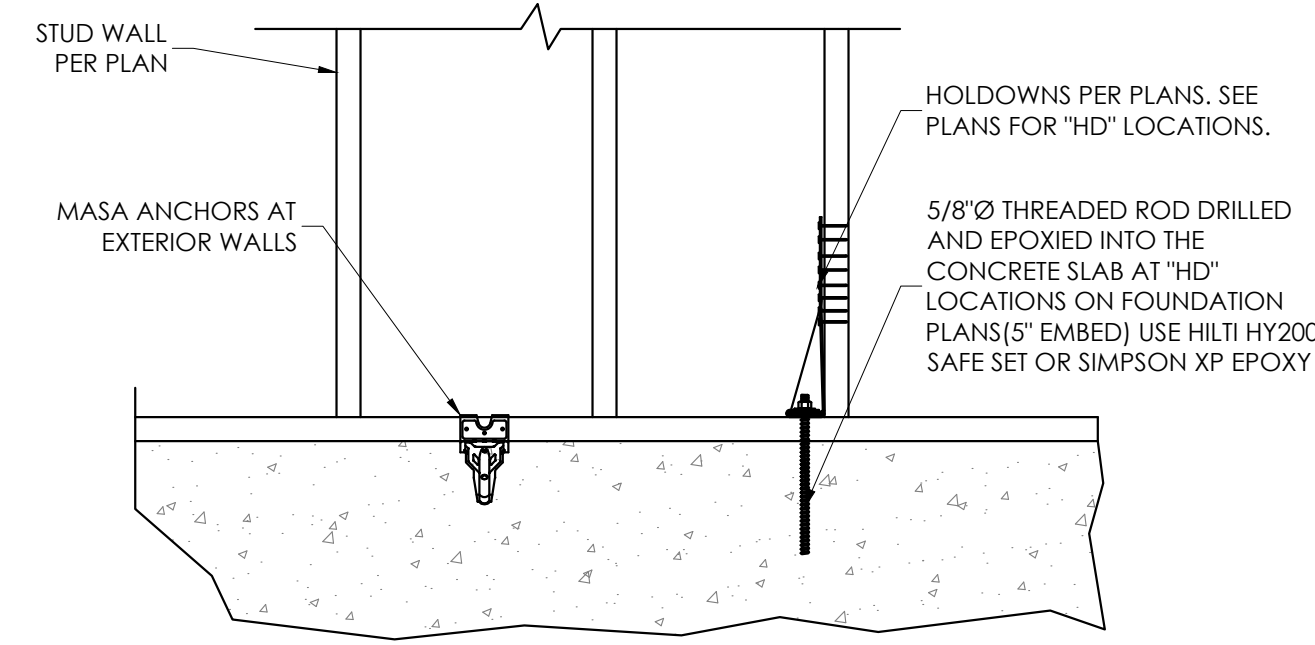
**3 FOOTING REBAR AT CORNER CONDITION**  
SCALE: NONE



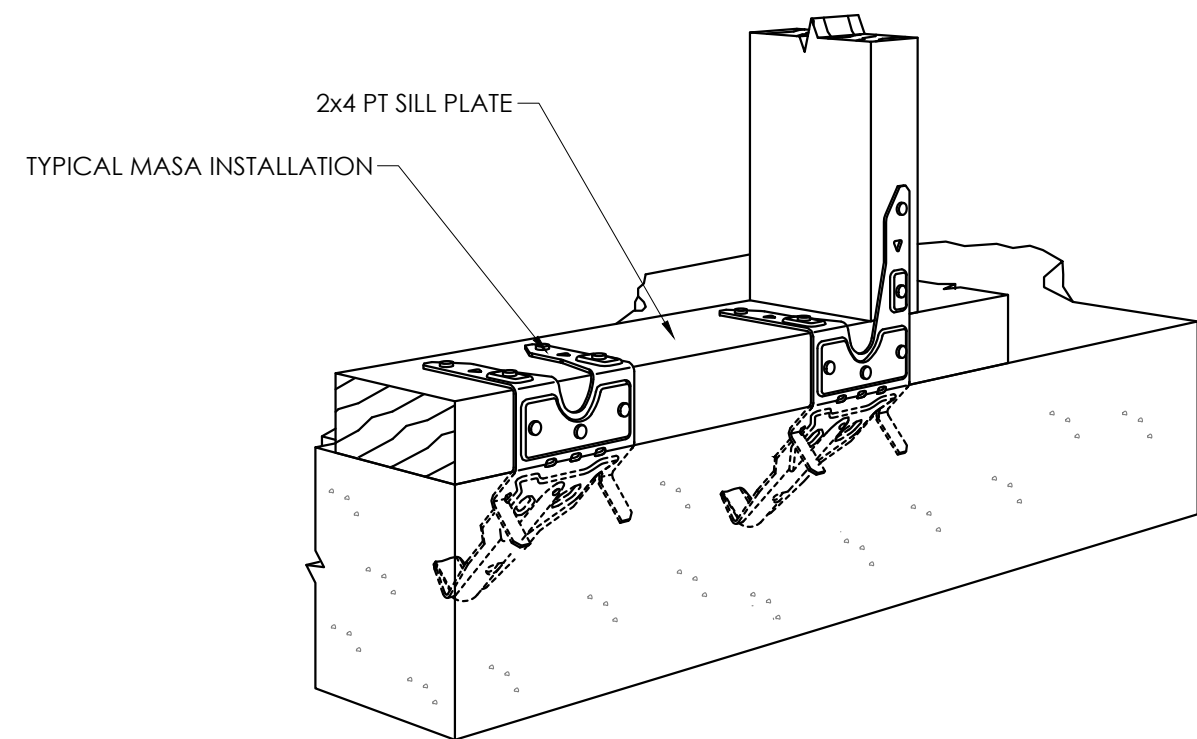
**4 SLAB CONTROL JOINT**  
SCALE: NONE



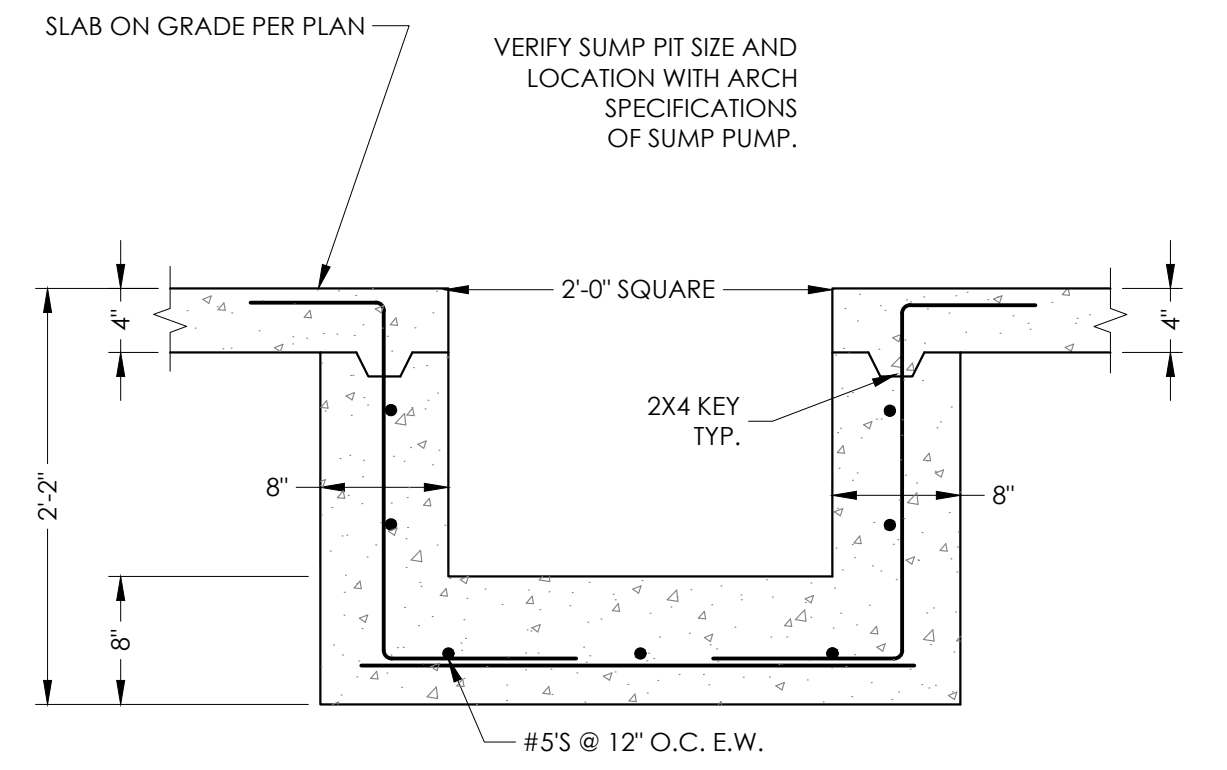
**5 NON-BEARING WALL ATTACHMENT**  
SCALE: NONE



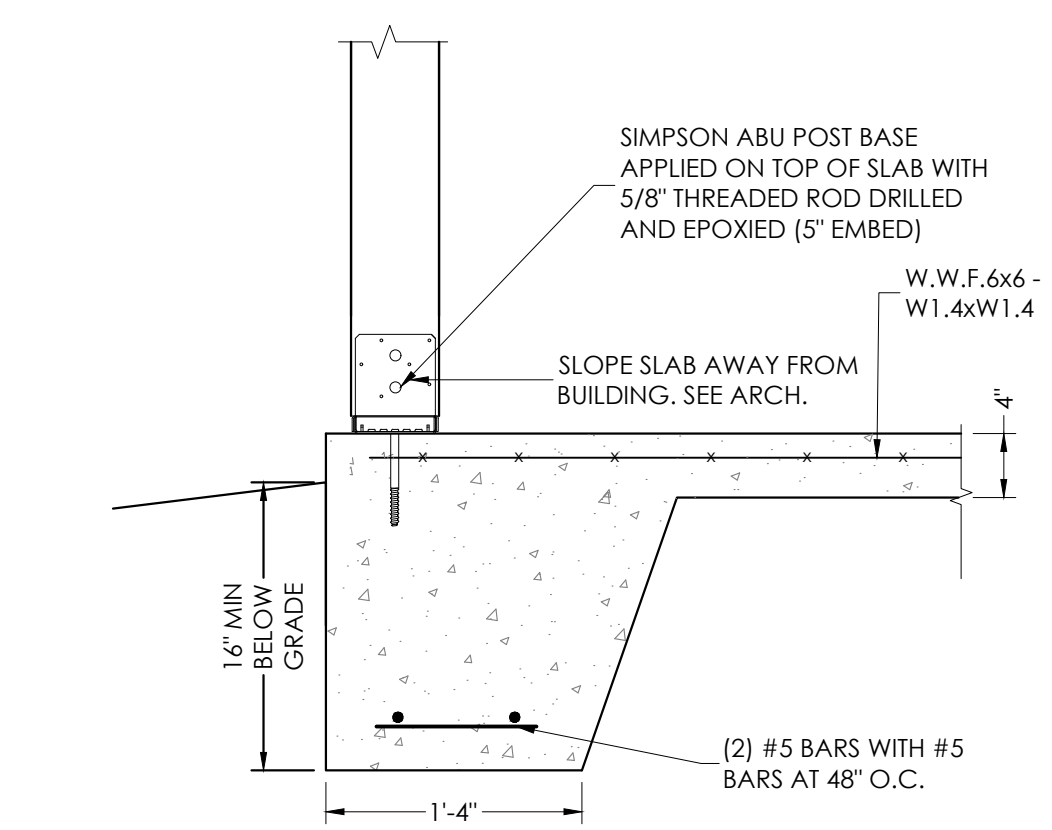
**6 SILL PLATE ANCHORAGE**  
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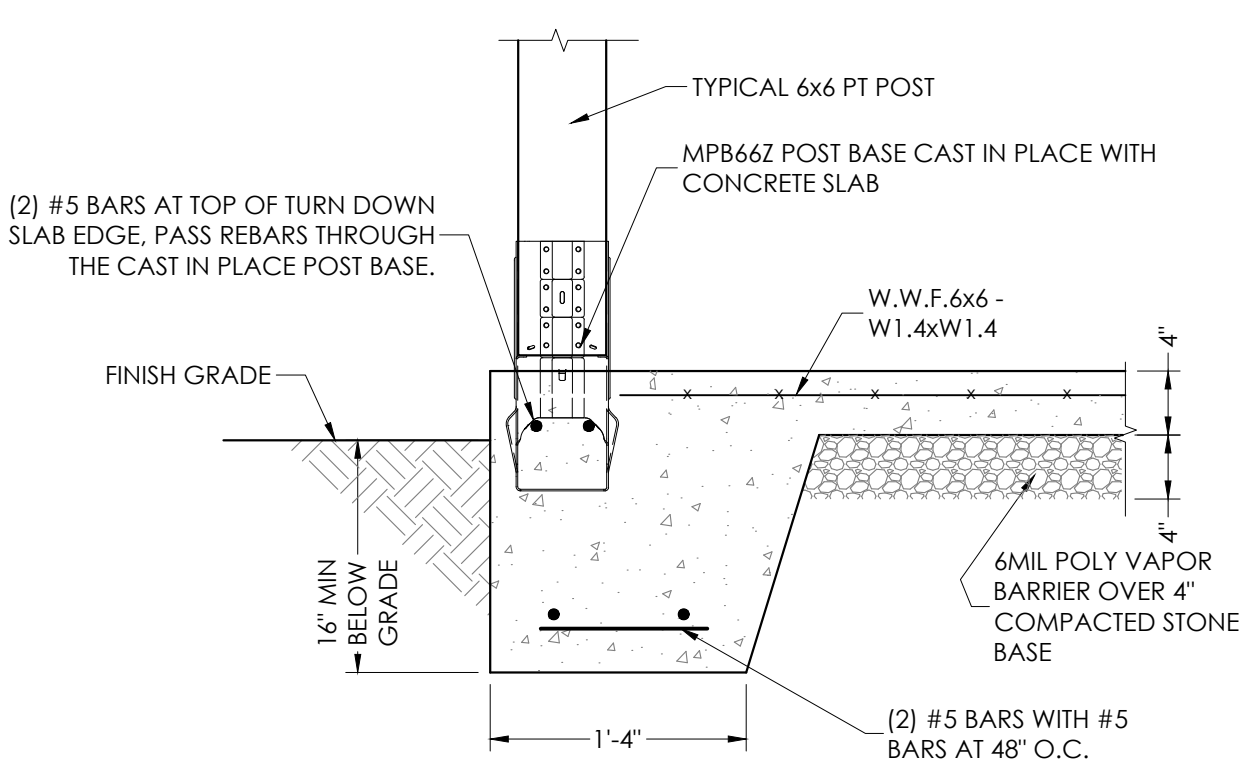
**7 MASA SILL PLATE ANCHOR ISOMETRIC**  
SCALE: NONE



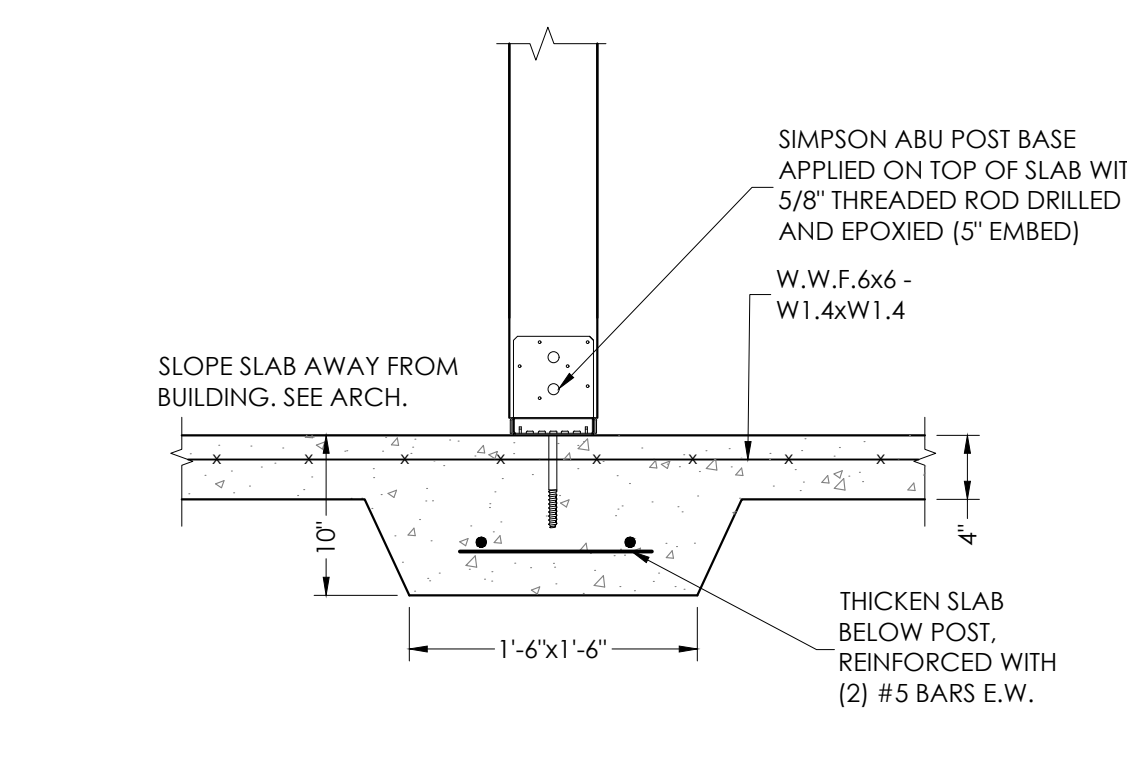
**8 SUMP PUMP PIT**  
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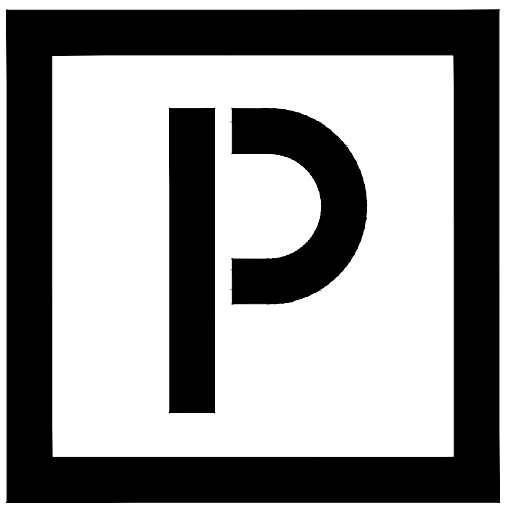
**9 ABU66 POST BASE AT EDGE OF SLAB**  
SCALE: NONE



**10 MPB66 POST BASE (CAST IN PLACE)**  
SCALE: NONE



**11 ABU66 POST BASE OVER SLAB ON GRADE**  
SCALE: NONE



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27587



Cape Overlook Pool House  
Triangle Land Partners  
Lillington, North Carolina

PROGRESS DATE:	10.28.2024
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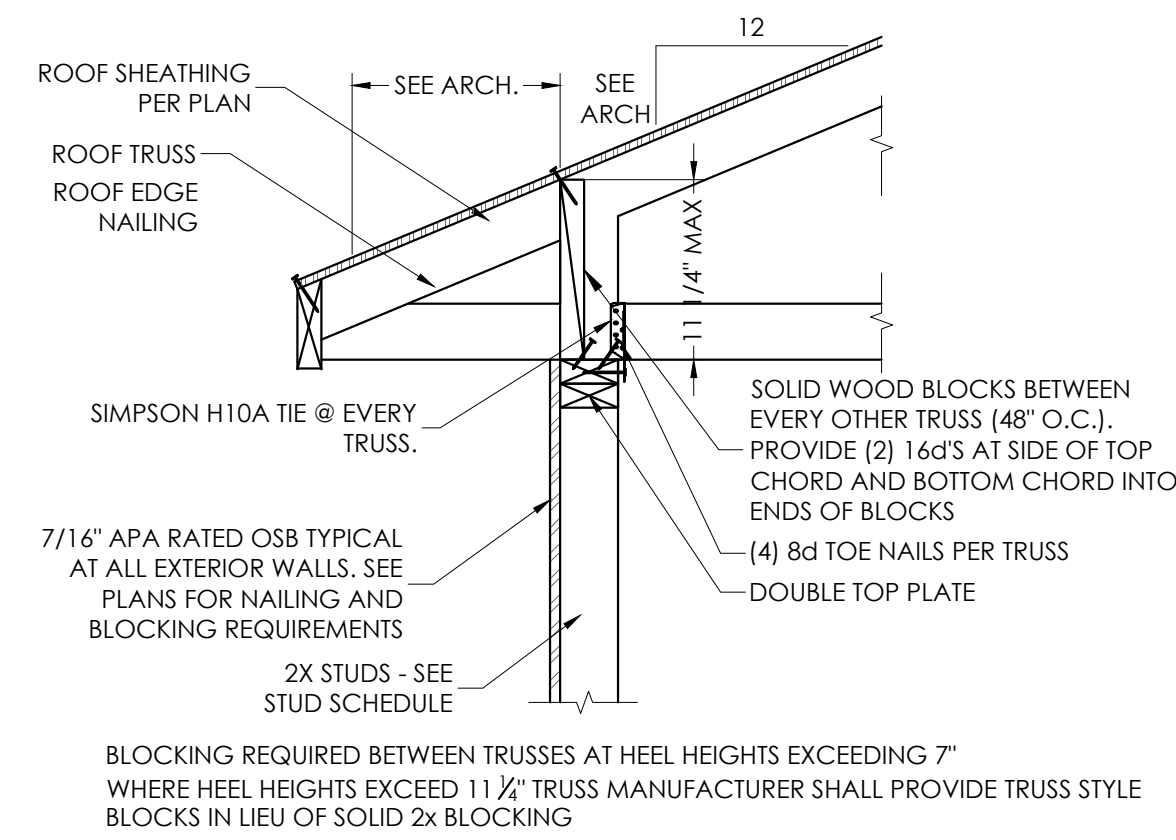
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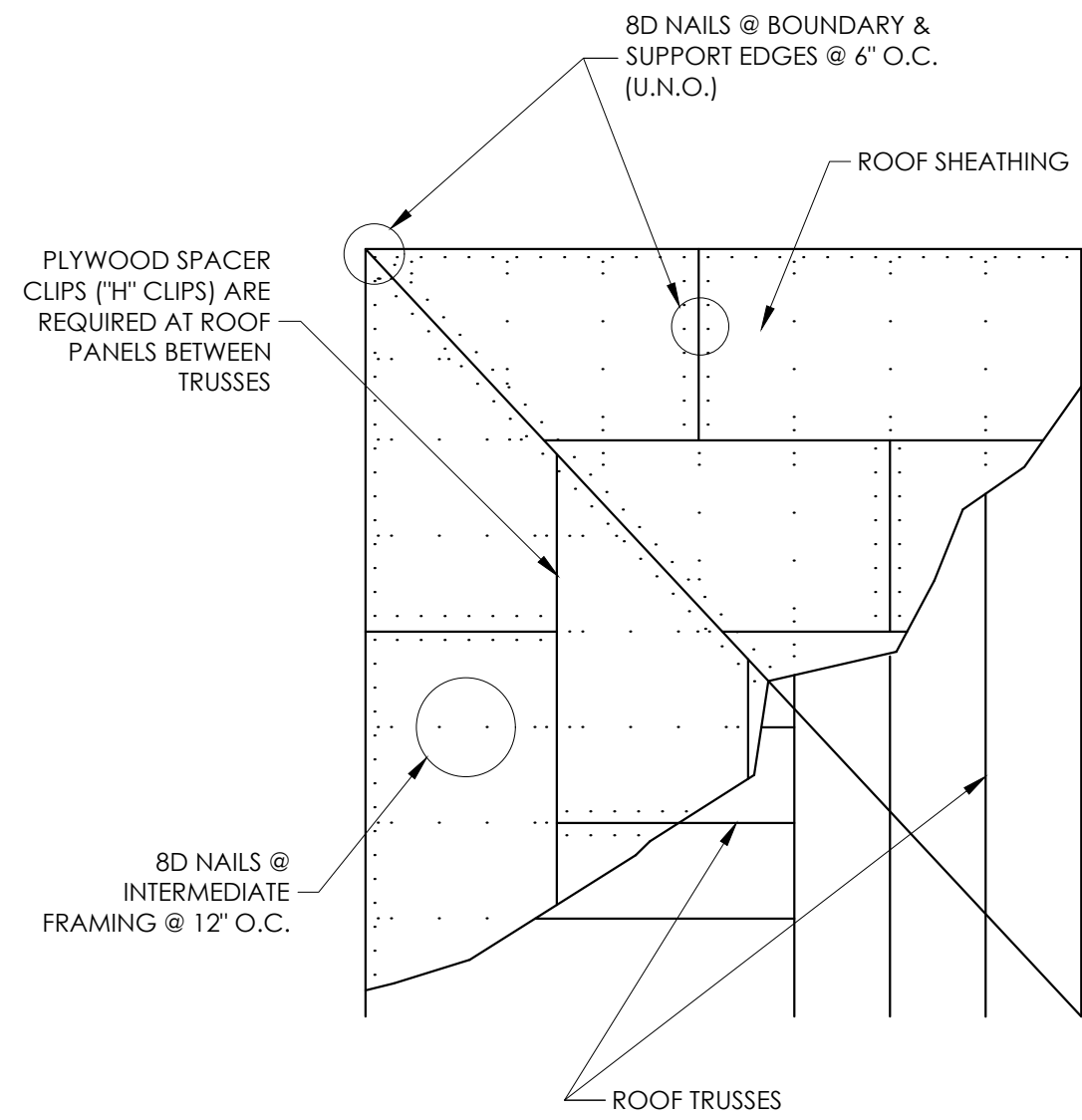
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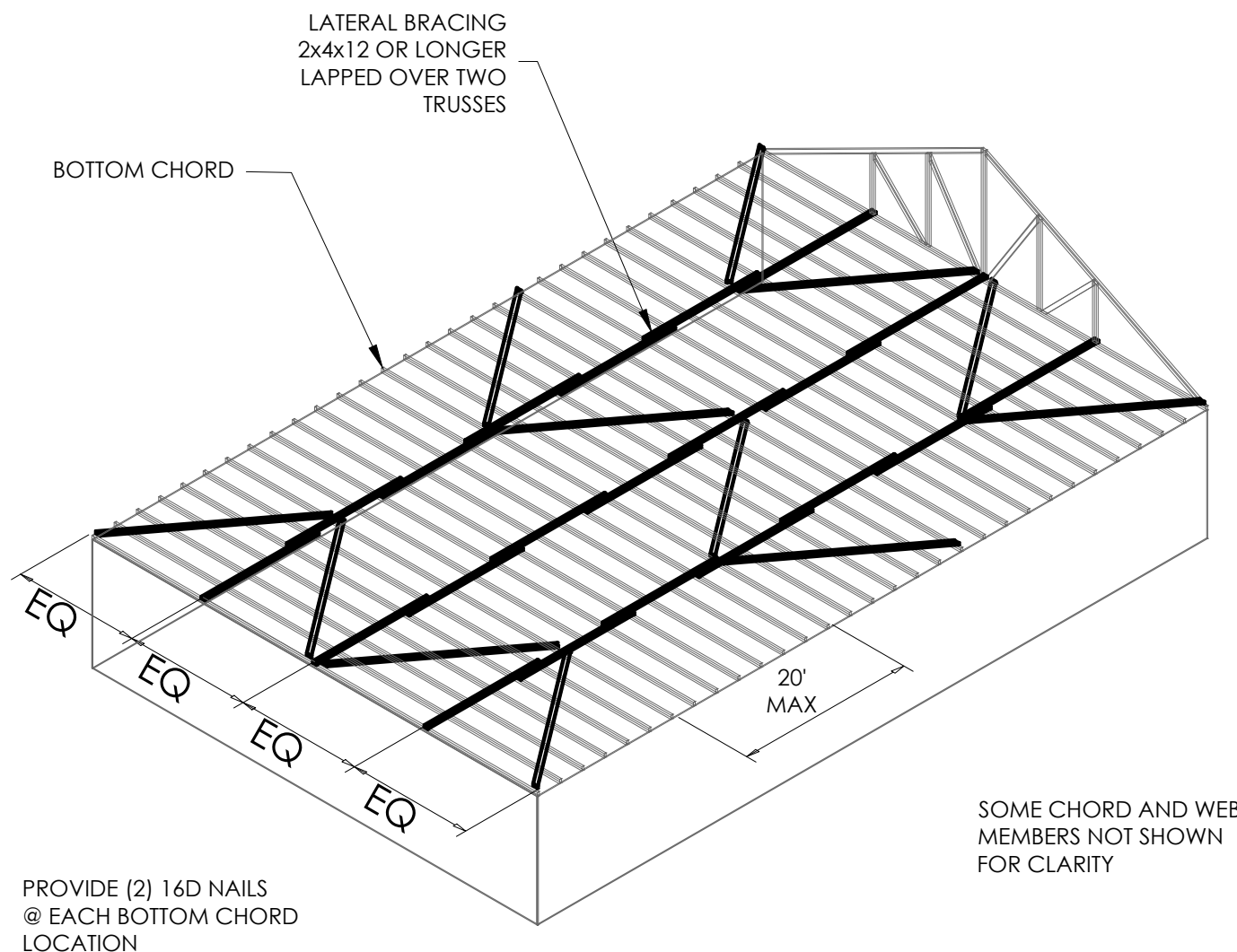
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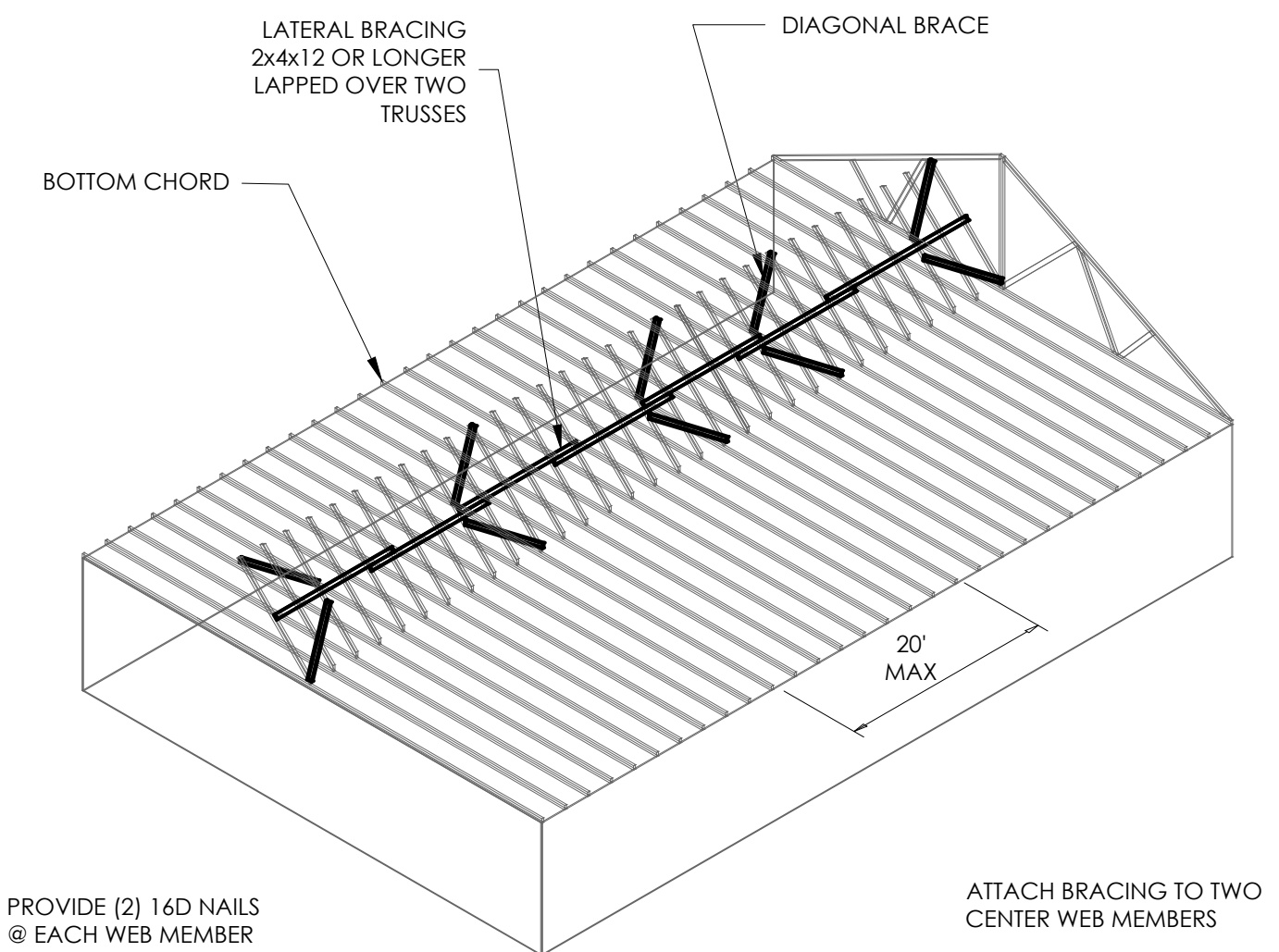
**1** **TYPICAL ROOF TRUSS BEARING AT EXTERIOR WALL**  
SCALE: NONE



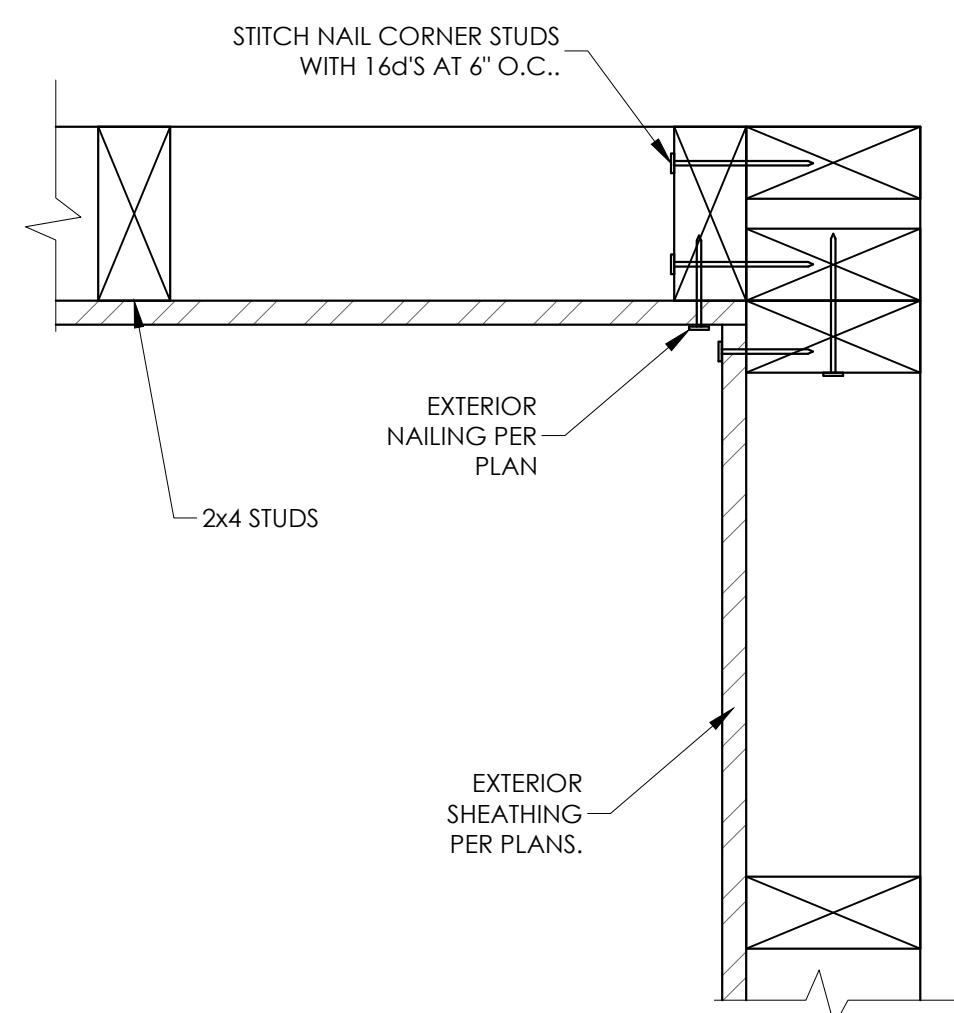
**2** **HIP ROOF NAILING PATTERN**  
SCALE: NONE



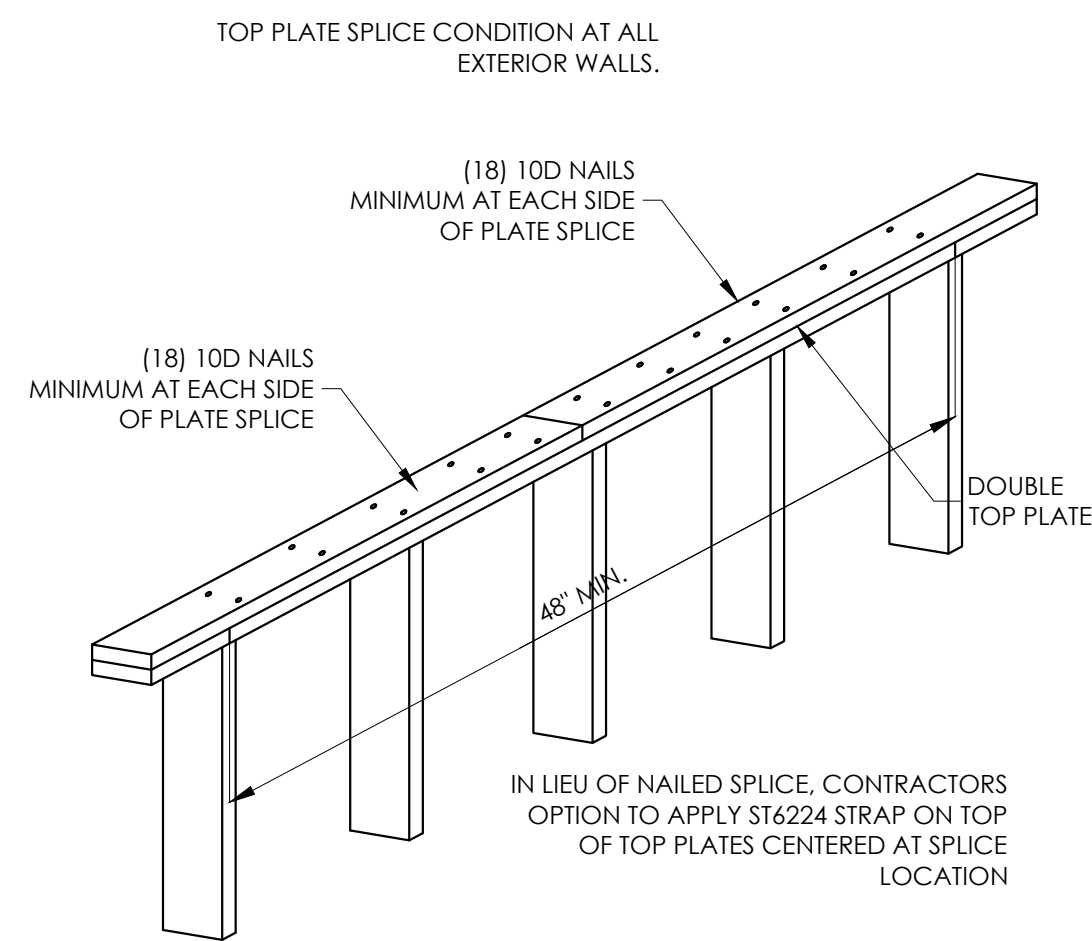
**3** **PERMANENT TRUSS BRACING**  
SCALE: NONE



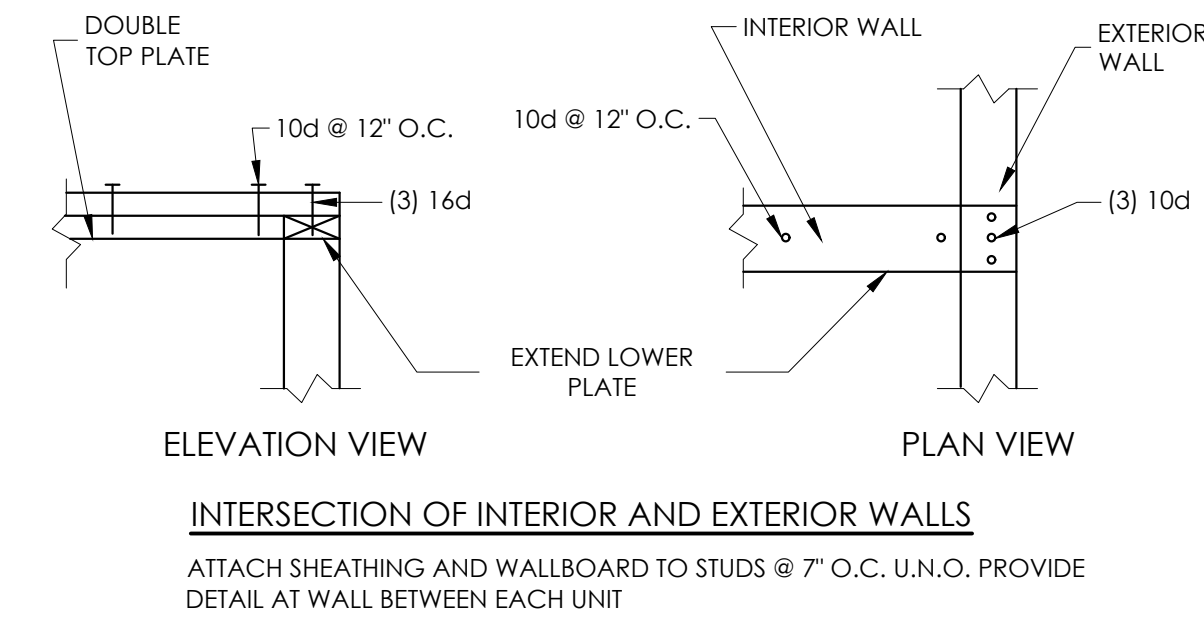
**4** **PERMANENT TRUSS BRACING**  
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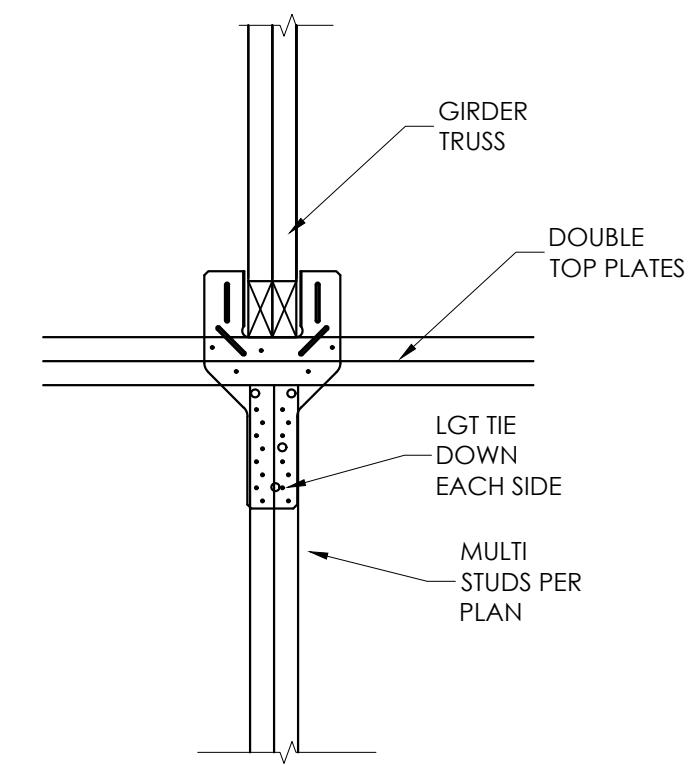
**5** **CORNER FRAMING DETAIL**  
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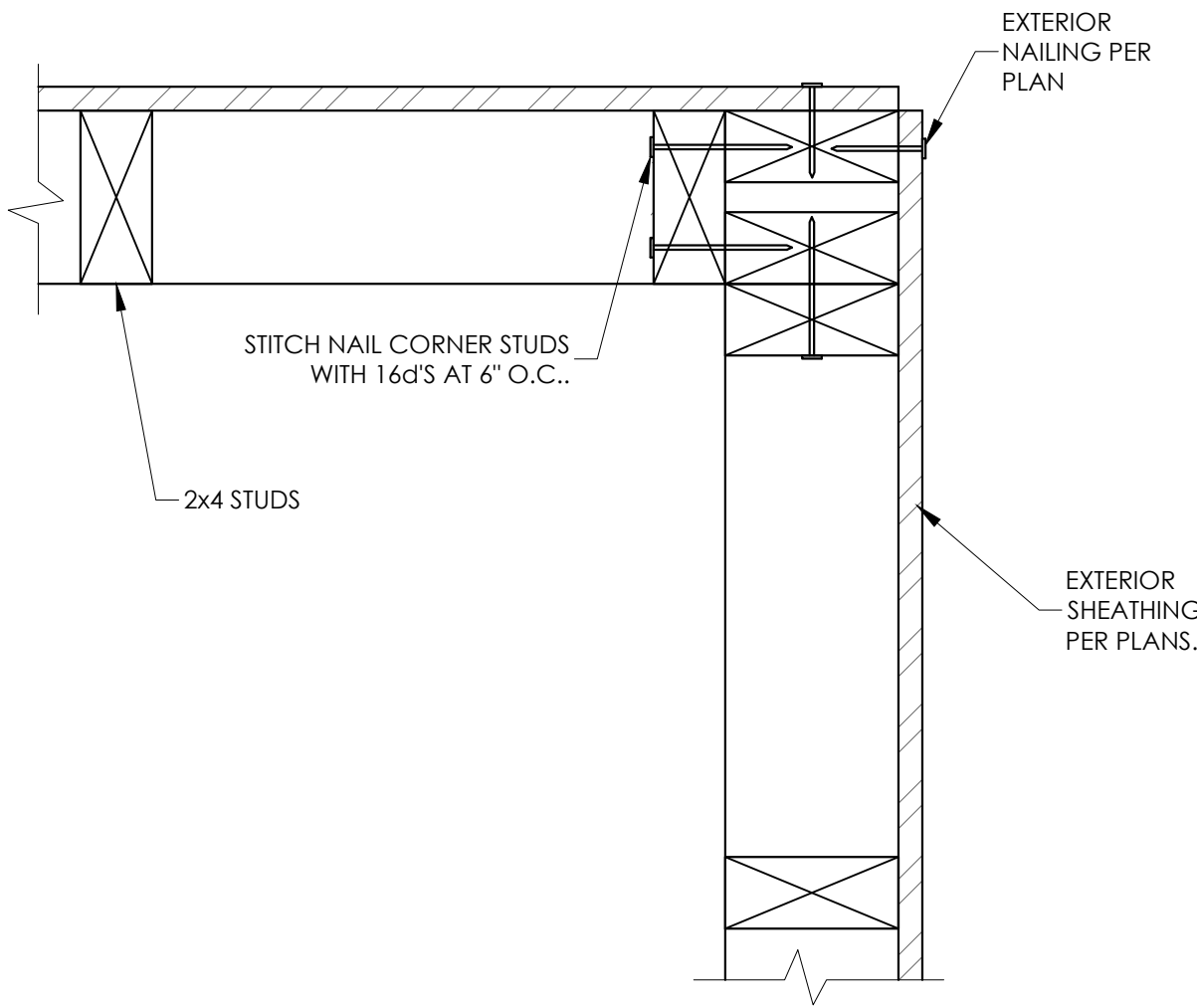
**6** **TYPICAL DOUBLE TOP PLATE SPLICE**  
SCALE: NONE



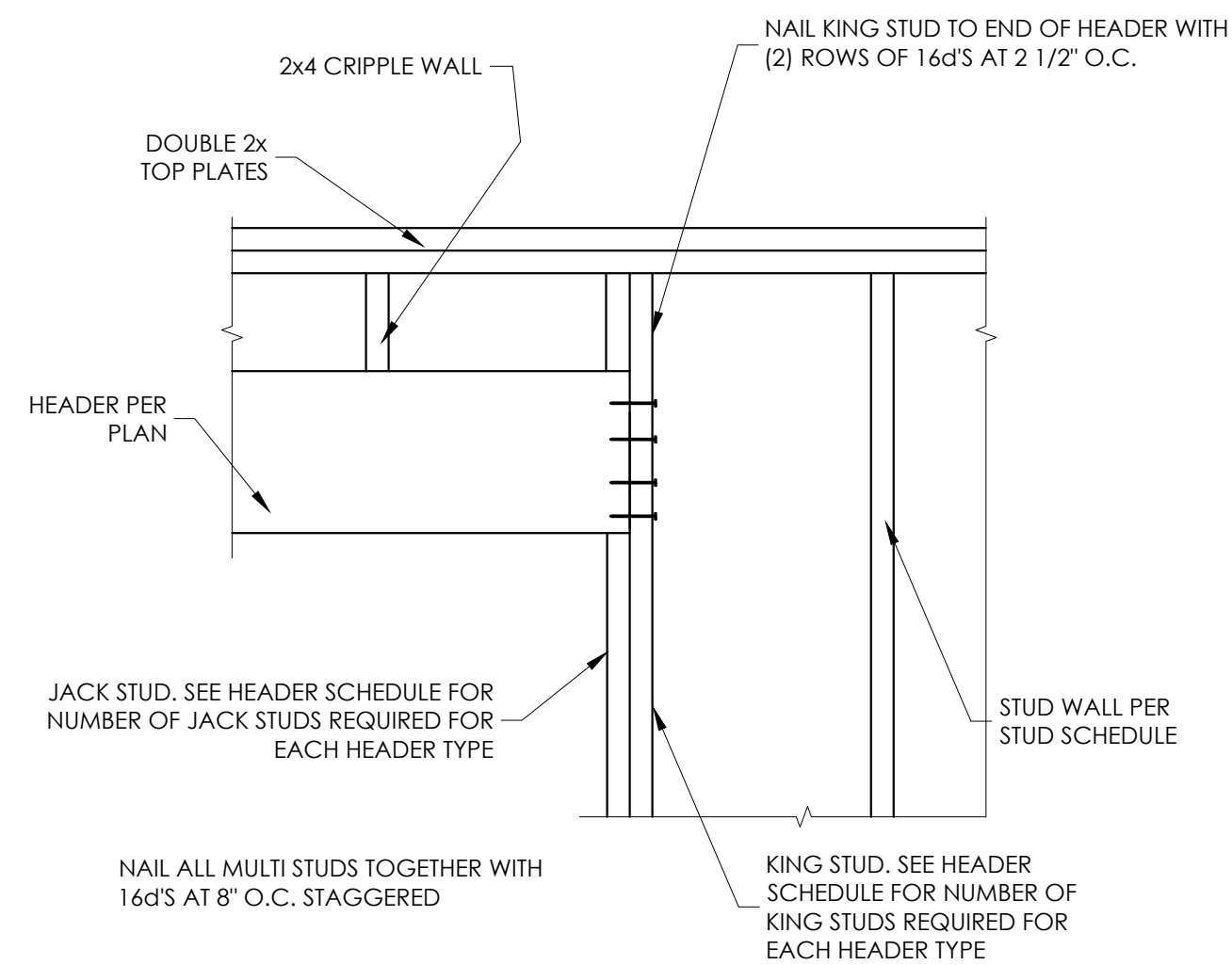
**7** **HEADER SECTION**  
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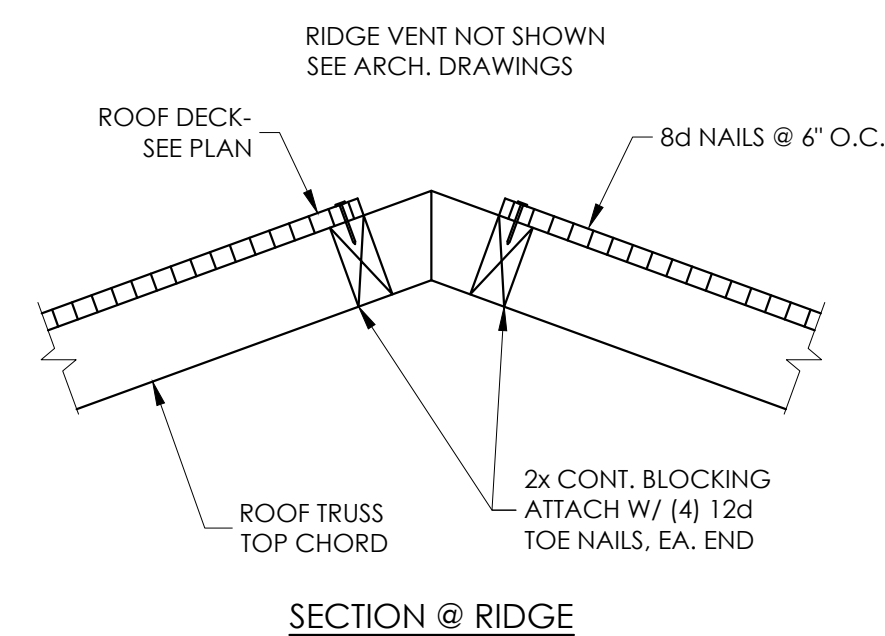
**8** **FLUSH ROOF BEAM**  
SCALE: NONE



**9** **CORNER FRAMING DETAIL**  
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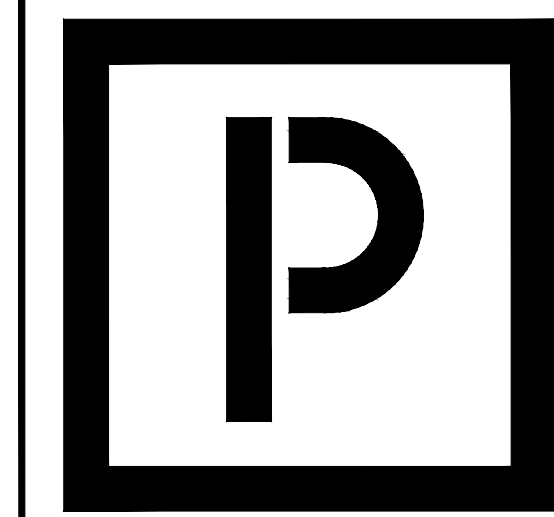


**10** **HEADER BEARING DETAIL**  
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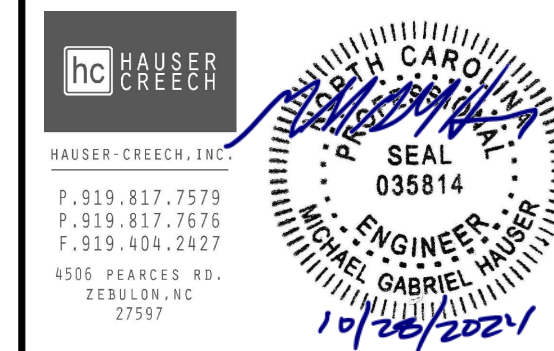


**11** **RIDGE VENT**  
SCALE: NONE

**12** **SCALE: NONE**



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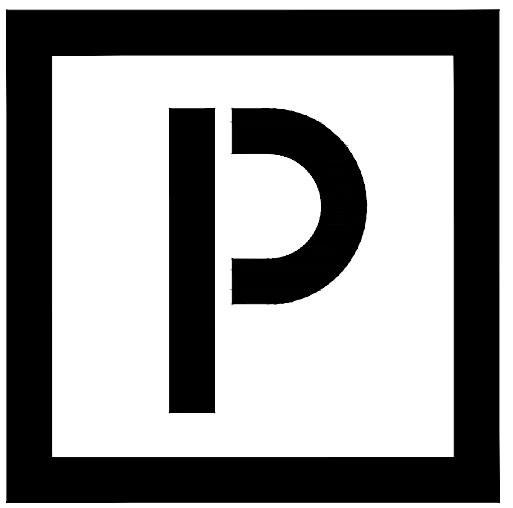
PROGRESS DATE:	10.28.2024
ISSUE DATE:	
REVISIONS NUMBER:	
INITIALS:	
DESCRIPTION:	

PROJECT NO: 002824  
DRAWN BY: RA  
CHECKED BY: MGH  
SHEET TITLE: Framing Details

SHEET NUMBER: S301

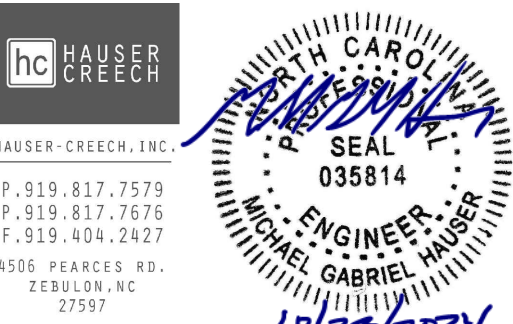
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**PLANWORX ARCHITECTURE**

5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
website www.planworx.com



**FOUNDATION NOTES:**

- FOUNDATION DESIGN IS BASED UPON ASSUMED SOIL BEARING VALUE OF 2000 PSF.
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEO-TECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE BELOW THE FROST LINE OR 16" BELOW GRADE, WHICHEVER IS GREATER. (U.N.O.)
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED OR CLEAN GRAVEL SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

**REINFORCED CONCRETE:**

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318, 09)
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
- FOUNDATIONS AND SLAB-ON-GRADE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES.
- WALL COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES
- LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 36" MIN., AND #6 REINFORCING BARS SHALL BE 43" MIN., UNLESS SUBMITTED AND APPROVED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL:  
WALLS: 3" CAST AGAINST GROUND  
2" FORMED EDGES  
FOOTINGS: 2" FORMED EDGES  
3" CAST AGAINST GROUND  
SLAB ON GRADE: MID-HEIGHT OF SLAB
- THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- SLUMP LIMIT IS 5 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1 INCH
- AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION TROWEL-FINISHED FLOOR SHALL NOT EXCEED 3 PERCENT.
- MAXIMUM COARSE-AGGREGATE SIZE: 3/4 INCH NOMINAL.
- PORTLAND CEMENT: ASTM C 150/C 150M, TYPE I.
- COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1.
- HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.
- DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS. PLACE FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE
- BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE IS PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DEPOSIT CONCRETE TO AVOID SEGREGATION, CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.
- ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

**DESIGN INFORMATION:**

1. ALL CONSTRUCTION SHALL CONFORM TO THE NORTH CAROLINA BUILDING CODE 2018 AND ASCE 7-10

2. DESIGN LOADS:  
DEAD AND LIVE LOADS  
ROOF LOADS  
TOP CHORD DEAD \_\_\_\_\_ 10 psf  
BOTTOM CHORD DEAD \_\_\_\_\_ 10 psf  
TOP CHORD LIVE \_\_\_\_\_ 20 psf  
BOTTOM CHORD LIVE \_\_\_\_\_ 10 psf  
CATWALK (or mechanical platform) 40 psf

RISK CATEGORY \_\_\_\_\_ II

IMPORTANCE FACTORS  
I seismic \_\_\_\_\_ 1.0  
I snow \_\_\_\_\_ 1.0  
GROUND SNOW LOAD (pg) \_\_\_\_\_ 1.5 psf

DESIGN WIND SPEED \_\_\_\_\_ Risk Cat II = 120 mph (ASCE 7-10)

SEISMIC DESIGN PARAMETERS  
S1 \_\_\_\_\_ 0.086  
Ss \_\_\_\_\_ 0.183  
SITE CLASS \_\_\_\_\_ D  
Sds \_\_\_\_\_ 0.195  
Sd1 \_\_\_\_\_ 0.136  
SEISMIC DESIGN CATEGORY \_\_\_\_\_ C

- ADDITIONAL LIVE LOADS PRESCRIBED IN ASCE7-10 RELATED TO ROOF ATTICS AND ROOF TRUSSES, INCLUDING LIMITED ACCESS STORAGE IN ATTICS SHALL APPLY TO PRE-FABRICATED TRUSSES, AND SHALL BE CLEARLY IDENTIFIED ON THE TRUSS SHOP DRAWINGS..
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- THIS PROJECT CONTAINS A SERIES OF DETAILS CONSIDERED "TYPICAL DETAILS". THESE SHALL APPLY AT ALL SITUATIONS THAT ARE THE SAME OR SIMILAR AS THESE DETAILS. THESE "TYPICAL DETAILS" SHALL APPLY WHETHER OR NOT THEY ARE INDICATED OR CUT AT EACH LOCATION.
- VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE WORKED WITH ARCHITECTURAL DRAWINGS.
- USE OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS ACCORDINGLY PRIOR TO SUBMITTING TO THE ENGINEER. THE OMISSION OF ITEMS FROM SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND INSTALLING ITEMS REGARDLESS OF WHETHER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

**WOOD FRAMING (NOT INCLUDING PRE-FABRICATED TRUSSES):**

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA BUILDING CODE AND TO THE NDS.
- ALL NAILING (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE 2018 NORTH CAROLINA BUILDING CODE
- ALL STUDS, TOP PLATES AND SILL PLATES IN BEARING WALLS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL STUDS, TOP PLATES AND SILL PLATES IN NON-BEARING WALLS SHALL BE SPF STUD GRADE OR BETTER.
- ALL 2x NOMINAL HEADERS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL EXPOSED LUMBER SHALL BE PRESERVATIVE TREATED.
- FINGER JOINTED STUDS MAY BE USED IN INTERIOR APPLICATIONS PROVIDED THE STRUCTURAL PROPERTIES EQUAL OR EXCEED THAT OF THE SOLID SAWN LUMBER. FINGER JOINTED LUMBER SHALL NOT BE USED IN EXPOSED CONDITIONS.
- ALL CONNECTIONS IN EXPOSED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED.
- ALL MANUFACTURED LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MODULUS OF ELASTICITY OF 264 psi AND A MINIMUM BENDING STRENGTH OF 2800 psi.
- UNDER NO CIRCUMSTANCE SHALL LAMINATED VENEER LUMBER BE USED IN AN EXPOSED CONDITION, WHERE MANUFACTURER LUMBER IS REQUIRED IN AN EXPOSED CONDITION THE CONTRACTOR MUST USED PRESERVATIVE TREATED GLU-LAMINATED LUMBER (GLB).

**WOOD TRUSSES:**

- IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR M, P&E EQUIPMENT OR MATERIALS AND BY SPRINKLER LOADS IN THE TRUSS DESIGN.
- TRUSSES SHALL BE DESIGNED BY A REGISTERED ENGINEER IN THE STATE OF NORTH CAROLINA AND SHOP DRAWINGS BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL.
- TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
- LIMIT LIVE LOAD DEFLECTION TO L/360. LIMIT TOTAL LOAD DEFLECTION TO L/240 OR 1" MAX.

Cape Overlook Pool House

Triangle Land Partners

Lillington, North Carolina

PROGRESS DATE:	10.28.2024	INITIALS	DESCRIPTION
ISSUE DATE:		DATE	
REVISIONS NUMBER:	1		

PROJECT NO: 002824

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE: General Notes

SHEET NUMBER: S401

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PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	MANUFACTURER	FITTING	HW	CV	WASTE
P1	TWO PIECE TANK TYPE ADA WATER CLOSET	TOTO CS744EL DR. OR EQUAL BY AMERICAN STANDARD DR. KIDLER	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, ELONGATED FRONT BOWL, AND CHROME TRIP LEVER. 1.28 GPF. PROVIDE SCS34 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE.	-	1/2"	3"
PH	TWO PIECE TANK TYPE ADA WATER CLOSET	TOTO CS744EL DR. OR EQUAL BY AMERICAN STANDARD DR. KIDLER	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, ELONGATED FRONT BOWL, AND CHROME TRIP LEVER. 1.28 GPF. PROVIDE SCS34 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE. TOP OF SEAT SHALL BE 15-19 INCHES AFF FOR ADA. LEVER MOUNTED ON WIDE SIDE FOR ADA.	-	1/2"	3"
P2	COUNTER MOUNT LAVATORY	TOTO LT511.4 DR. OR EQUAL BY AMERICAN STANDARD DR. KIDLER	VITREOUS CHINA SELF-RIMMING LAVATORY COMPLYING WITH ASME 112.19.2. MOUNT 30 RIM IS 34 INCHES AFF AND 2 INCHES FROM FRONT EDGE FOR ADA. PROVIDE WITH LOW-GRADE PROTECTORS SUPPLY AND DRAIN LINES. USE A METERING TYPE FAUCET SIMILAR TO CHICAGO 3300-CF.	1/2"	1/2"	2"
P3	URINAL	TOTO UT44TE DR. OR EQUAL BY AMERICAN STANDARD DR. KIDLER	VITREOUS CHINA, WALL-MOUNTED, ADA COMPLIANT, LOW CONSUMPTION WASHOUT URINAL COMPLYING WITH ASME 112.19.2. 0.5 GPF. SLOW CROWN 186-0.5 FLUSHMETER VALVE DR. EQUAL BY ZURN DR. TOTO. TOP OF RIM SHALL BE 17 INCHES AFF FOR ADA.	-	3/4"	2"
P4	SHOWER	TILED SHOWER	PROVIDE SUBMITTALS TO OWNER ADD HAND SHOWER ATTACHMENT. (DELTA 1300 SERIES, R1000 SHOWER VALVE)	-	1/2"	2"
P5	DRINKING FOUNTAIN	DAVIS PRA3SL DR. OR EQUAL BY ELKAY DR. STERN WILLIAMS	ADA COMPLIANT FOR ADULT AND CHILD. 8.0 GPH OF 50°F WATER AT 90°F AMBIENT. PROVIDE ACCESSORY AFORN FOR ADA COMPLIANCE AS NECESSARY	-	3/8"	2"
P6	FLOOR DRAIN	WATTS FD-200-A DR. OR EQUAL BY ZURN DR. JR. SMITH	DN GRADE EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEAP HOLES, ADJUSTABLE ROUND NICKEL BRONZE STRAINER, AND NO HUB OUTLET. PROVIDE TRAP PRIMER CONNECTION OPTION IF NOTED.	-	-	3"
P7	EXPANSION TANK	ANTROL ST-5 DR. OR EQUAL BY WATTS DR. BELL & GOSSETT	INSTALL IN COLD WATER LINE BETWEEN WATER HEATER AND RPZ	-	3/4"	-
P8	THERMOSTATIC MIXING VALVE	WATTS LFMW DR. OR EQUAL BY LAWLOR DR. LEONARD VALVE	ASSE STANDARD 1069 OR 1070 APPROVED WITH 1/2 INCH FEMALE NPT INLET AND OUTLET CONNECTIONS, BRASS BODY, AND INTEGRAL MOUNTING HOLES. TAMPER RESISTANT THERMOSTATIC LAWSURE. SINGLE REPLACEABLE CARTRIDGE DESIGN.	1/2"	1/2"	-
P9	AUTOMATIC TRAP PRIMER	ZURN 1022 DR. OR EQUAL BY ZURN DR. JR. SMITH	COMPLIANT WITH ASSE 1018. INSTALL IN SUPPLY LINE TO LAVATORY 12 IN DR MORE ABOVE FINISHED FLOOR. PROVIDE ACCESS PANEL FOR MAINTENANCE AND VISUAL INSPECTION.	-	1/2"	-
P10	1 1/4" RPZ BACKFLOW PREVENTER	WATTS LF9091-QT 1 1/4 DR. OR EQUAL BY CONBRAD DR. WILKINS	RPZ ASSEMBLY CONSISTING OF A PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES. THE ASSEMBLY SHALL INCLUDE TWO TIGHTLY CLOSING SHUTOFF VALVES BEFORE AND AFTER THE ASSEMBLY, TEST COCKS AND A PROTECTIVE STRAINER UPSTREAM OF THE FIRST SHUTOFF VALVE. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE 1013 AND ANNA C511.	-	1 1/4"	-
FCI	FLOOR CLEANDUT	ZURN, WATTS, JR. SMITH	EPOXY COATED CAST IRON FLOOR CLEANDUT WITH ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANDUT PLUG, AND NO HUB INLET.	-	-	4"
WCI	WALL CLEANDUT	ZURN, WATTS, DR. JR. SMITH	CAST IRON CLEANDUT FERROUS WITH THREADED BRASS COUNTERSINK CLEANDUT PLUG, STAINLESS STEEL ACCESS COVER, AND HANDL PRUOF STAINLESS STEEL SCREW	-	-	4"
AAV	AIR ADMITTANCE VALVE	STUDDER REDIVENT DR. APPROVED EQUAL	ANSI/ASSE 1051 LISTED. NSF STANDARD 14. PROVIDE PVC DR. ABS CONNECTOR AS NECESSARY. CONNECT VALVE TO PIPING PER MANUFACTURER. INSTALL IN THE VERTICAL, UPRIGHT POSITION AFTER ROUGH-IN AND PRESSURE TESTING OF THE SYSTEM. PROVIDE WALL BOX IF NOT ABOVE CEILING OR OTHERWISE CONCEALED.	-	-	2"

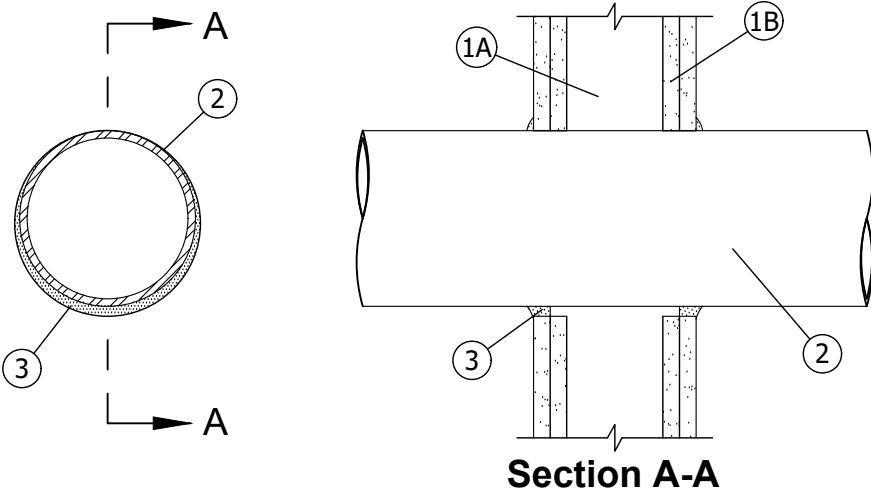
ELECTRIC WATER HEATER SCHEDULE											
MARK	MFG	MODEL	TANK VOL.		RECOVERY	SET POINT	POWER		CONNECTIONS		OPTIONS
			GALS	KW			VOLTA	PHASE	HOT	COLD	
WH-1	RHEEM	ELD540	38	4.5	30	110	240	1	3/4	3/4	1-5

- PROVIDE GALVANIZED STEEL SAFETY PAN
- UL 174 LISTED
- PROVIDE ASME LISTED TEMPERATURE AND PRESSURE RELIEF VALVE
- MEET OR EXCEED ENERGY FACTOR REQUIREMENTS OF ASHRAE 90.1-2007
- OR EQUAL BY A.O. SMITH, BRADFORD WHITE, OR STATE

LINETYPE LEGEND	
COLD WATER SUPPLY	----
HOT WATER SUPPLY	----
SANITARY SEWER LINE	----
VENT LINE	----

DO NOT TAP WATER LINE AHEAD OF RPZ.

**System No. W-L-1088**  
F Ratings - 1 & 2 Hr. (See Item 1)  
T Rating - 0 Hr.



- Wall Assembly** - The 1 or 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) O.C. with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min. 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) O.C.
  - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6-3/4 in. (171 mm).

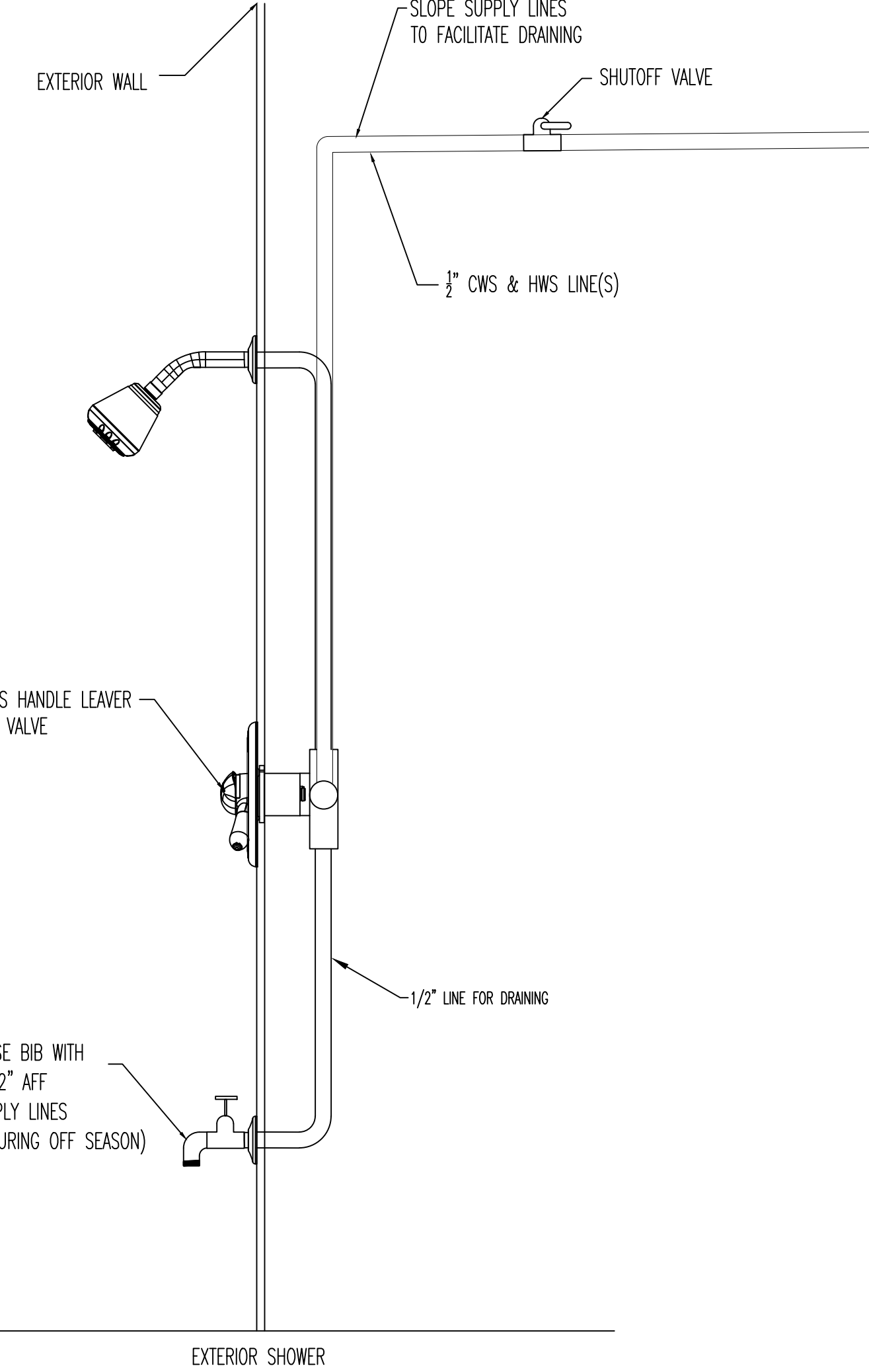
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant** - One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, tubing or conduits and periphery of opening shall be min 0 in. (point contact) to max 5/8 in. (16 mm). Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - Steel Pipe** - Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe** - Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
  - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type M (or heavier) copper tubing.
  - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
  - Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 4 in. (102 mm) diam (or smaller) galv steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material within annulus, flush with both surfaces of wall. Additional fill material installed such that a min 1/4 in. (6 mm) thick crown is formed around the penetrating item lapping 1/2 in. (13 mm) beyond the periphery of the opening.

**SPECIFIED TECHNOLOGIES INC. - SpecSeal LC 150 Sealant, SpecSeal LE600 Sealant**  
\*Bearing the UL Classification Mark

**Specified Technologies Inc. 200 Evans Way Somerville, NJ 08876**  
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**UL** W-L-1088  
PAGE 1 OF 1



DELTA 1300 SERIES HANDLE LEAVER & R10000 SHOWER VALVE

WOODFORD #27 HOSE BIB WITH VACUUM BREAKER 12" AFF (FOR DRAINING SUPPLY LINES & SHOWER VALVE DURING OFF SEASON)

EXTERIOR SHOWER

PLUMBING LINES SIZING TABLE										
FIXTURE TYPE	OCCUPANCY	QTY	DRAINAGE FIXTURE UNITS			WATER SUPPLY FIXTURE UNITS				
			EACH	TOTAL	CV	HW	CV & HW	HW TOTAL	TOTAL	
WATER CLOSET (FLUSH TANK)	PUBLIC	3	4.00	12.00	5.00	0.00	5.00	0.00	15.00	
SHOWER	PUBLIC	1	2.00	2.00	3.00	3.00	4.00	3.00	4.00	
LAVATORY	PUBLIC	3	1.00	3.00	1.50	1.50	2.00	4.50	6.00	
URINAL (3/2 FLUSH VALVED)	PUBLIC	1	2.00	2.00	5.00	0.00	5.00	0.00	5.00	
DRINKING FOUNTAIN	PUBLIC	1	0.50	0.50	0.25	0.00	0.25	0.00	0.25	
EMERGENCY FLOOR DRAIN	PUBLIC	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEMAND FIXTURE										19.5
										30.3
										12.80
										23.50
										0.00
										0.00
										12.80
										23.50
MINIMUM BUILDING DRAIN SIZE		4"								
MINIMUM WATER LINE SIZE		1 1/4"								

GENERAL PLUMBING NOTES:

ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:  
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR, FAS - FIRE ALARM SYSTEM CONTRACTOR.
- "PROVIDE" MEANS TO FURNISH AND INSTALL THE PLUMBING CONTRACTOR SHALL ALSO INSTALL MATERIALS FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR.
- THE PC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED AT THE APPROVED LOCATION. THE PC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE PC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. ALL MATERIALS AND EQUIPMENT SHALL BEAR APPROVAL FROM UL OR AN APPROVED THIRD PARTY AGENCY, WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, IT IS TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.
- THE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
- THE PC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- THESE PLANS ARE DIAGRAMATIC. THE PC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC. TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE PC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCIES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER. THE PC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. TO AVOID POTENTIAL CONFLICTS, COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO ANY DIGGING. TRENCHING, COMPACTON, AND BACKFILL SHALL BE BY PC AND SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE NC PLUMBING CODE. UNDERGROUND LINES SHALL BE LOCATED SUCH THAT THEY DO NOT ENDANGER FOOTINGS OR FOUNDATION WALLS.
- THE PC SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS OF RATED FLOOR/CEILING ASSEMBLIES AND RATED WALL ASSEMBLIES TO PRESERVE OR RESTORE THE FIRE RESISTANCE RATING. SEAL ALL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES TO THE PROJECT.
- SYSTEM TESTING SHALL BE PERFORMED BY PLUMBING CONTRACTOR IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE, SECTIONS 312.2, 312.3, AND 312.5.
- PC SHALL DISINFECT THE ENTIRE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- AT THE COMPLETION OF WORK AND PRIOR TO ACCEPTANCE BY OWNER, THE PC SHALL CLEAN ALL EXPOSED FIXTURES, MATERIALS, AND EQUIPMENT UNDER THIS CONTRACT.
- PC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

MATERIALS:

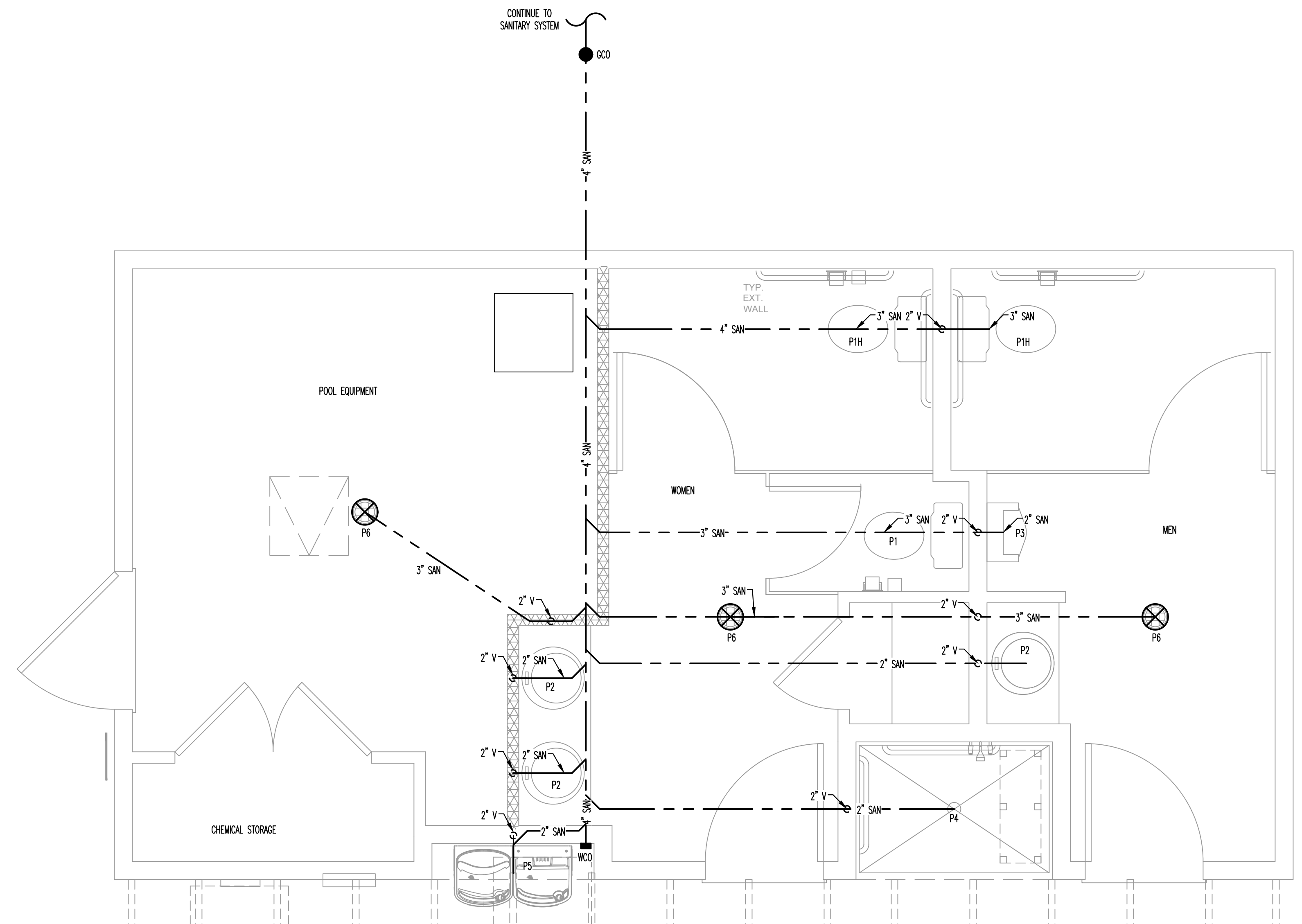
- ALL OVERHEAD DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH 95/5 LEAD FREE SOLDER, AND ALL BELOW GRADE WATER PIPING SHALL BE TYPE K COPPER WITH NO JOINTS. ALL PIPING SHALL HAVE MANUFACTURER'S NAME AND THE APPLICABLE STANDARD TO WHICH IT WAS MANUFACTURED CLEARLY MARKED ON EACH LENGTH. PIPING SHALL COMPLY WITH ASTM B-88. USE BRASS JOINTS ON ALL COPPER PIPING 1-1/2 INCH AND LARGER. \*\*\* PC MAY USE PEX (ASTM F 877) WITH APPROVED FITTINGS (ASTM F 1807) WITH OWNER'S APPROVAL. \*\*\* CPVC PIPING (ASTM D 2846 OR ASTM F 441) WITH APPROVED FITTINGS (ASTM D 2846, ASTM F 438, OR ASTM F 439) MAY ALSO BE USED WHERE NOT LOCATED IN PLENUMS. ALL PLASTIC PIPE, FITTINGS, AND COMPONENTS SHALL BE THIRD PARTY CERTIFIED AS CONFORMING TO NSF 14. ALL PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, USED IN THE WATER DISTRIBUTION SYSTEM SHALL HAVE A MAXIMUM LEAD CONTENT OF 25-PERCENT AND SHALL CONFORM TO NSF 61. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180°F. COLD WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 160 PSI AT 73.4°F. DO NOT INSTALL PEX OR CPVC PIPING IN RETURN AIR FLEUNGES.
- WALL VALVES SHALL HAVE BRASS BODY, FULL PORT, CHROME PLATED BALL WITH TEFLON SEALS, 150 PSI WSP, AND COMPLY WITH MSS SP-110. GATE VALVES SHALL HAVE BRONZE BODY, CLASS 150, AND COMPLY WITH MSS SP-80, TYPE 2 STANDARD. VALVE BODY SHALL BE ASTM B 62, BRONZE WITH INTEGRAL SEAT AND UNION RING BONNET. ENDS SHALL BE THREADED OR SOLDER WITH COPPER-SOLDER. COPPER STEM AND SOLID-WEDGE BRONZE DISC. INSTALL VALVES IN LOCATIONS THAT PERMIT EASY ACCESS WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS; PROVIDE ACCESS DOORS IF REQUIRED. VALVES SHALL BE BY INCO, WATTS, OR STOOHMANN.
- COLD WATER LINES SHALL BE INSULATED WITH 1/2 INCH THICK FIBROUS GLASS INSULATION WITH A FLAME DENSITY RATING LESS THAN 25 AND A SMOKE DENSITY RATING LESS THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. HOT WATER LINES UP TO 2 INCHES DIAMETER SHALL HAVE 1 INCH THICK INSULATION CONFORMING TO THE SAME STANDARD. PIPING LARGER THAN 2 INCHES SHALL RECEIVE 1-1/2 INCH THICK INSULATION. CLOSED CELL RUBBER INSULATION MEETING THE SMOKE AND FLAME RATINGS ABOVE MAY BE SUBSTITUTED FOR FIBROUS GLASS TYPE IF SO DESIRED. INSULATION INSTALLED ON PIPING OPERATING BELOW AMBIENT TEMPERATURES MUST HAVE A CONTINUOUS VAPOR RETARDER. ALL JOINTS, SEAMS AND FITTINGS MUST BE SEALED ON SYSTEMS OPERATING ABOVE AMBIENT, BUT JOINTS SHOULD NOT BE SEALED ON COLD SURFACES WHERE A VAPOR SEAL MUST BE MAINTAINED. INSULATION SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN MOISTURE AND VAPOR RETARDER. ALL HANGERS, SUPPORTS, ANCHORS, OR OTHER PROJECTIONS SECURED TO COLD SURFACES SHALL BE INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION. ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS, OR SLEEVES EXCEPT WHERE FIRESTOP OR FIRE-RATING MATERIALS ARE REQUIRED. INSULATION SHALL HAVE A FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP, WHITE-KHART PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS; CONFORMING TO ASTM C 1136 TYPE 1; VAPOR RETARDER; WITH A SELF-SEALING ADHESIVE. VERIFY THAT PIPING HAS BEEN TESTED, SURFACES ARE CLEAN AND DRY, AND ALL FOREIGN MATERIALS ARE REMOVED BEFORE APPLYING INSULATION MATERIALS. INSULATION SHALL BE BY MANUF, ARWALL, JOHNS-MANVILLE, OR CHEMICAL-BONDING.
- ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578 91. ALL INSULATION SHALL BE LOW-EMITTING WITH NOT

- GREATER THAN 0.05 PPM FORMALDEHYDE EMISSIONS. THE MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.
- THE PC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED AT THE APPROVED LOCATION. THE PC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE PC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. ALL MATERIALS AND EQUIPMENT SHALL BEAR APPROVAL FROM UL OR AN APPROVED THIRD PARTY AGENCY, WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, IT IS TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.
- THE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
- THE PC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- THESE PLANS ARE DIAGRAMATIC. THE PC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC. TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE PC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCIES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER. THE PC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. TO AVOID POTENTIAL CONFLICTS, COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO ANY DIGGING. TRENCHING, COMPACTON, AND BACKFILL SHALL BE BY PC AND SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE NC PLUMBING CODE. UNDERGROUND LINES SHALL BE LOCATED SUCH THAT THEY DO NOT ENDANGER FOOTINGS OR FOUNDATION WALLS.
- THE PC SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS OF RATED FLOOR/CEILING ASSEMBLIES AND RATED WALL ASSEMBLIES TO PRESERVE OR RESTORE THE FIRE RESISTANCE RATING. SEAL ALL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES TO THE PROJECT.
- SYSTEM TESTING SHALL BE PERFORMED BY PLUMBING CONTRACTOR IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE, SECTIONS 312.2, 312.3, AND 312.5.
- PC SHALL DISINFECT THE ENTIRE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- AT THE COMPLETION OF WORK AND PRIOR TO ACCEPTANCE BY OWNER, THE PC SHALL CLEAN ALL EXPOSED FIXTURES, MATERIALS, AND EQUIPMENT UNDER THIS CONTRACT.
- PC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

METHODS:

- EXTEND DOMESTIC WATER PIPE FROM FIVE (5) FEET OUTSIDE THE BUILDING INTO THE BUILDING AS INDICATED ON THE PLANS AND INSTALL DOMESTIC WATER DISTRIBUTION PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRING THE SAME. WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH IN ACCORDANCE WITH 603.2. PROVIDE ALL FITTINGS, VALVES, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. ALL DOMESTIC WATER PIPING SHALL BE CONCEALED IN FINISHED AREAS. ANY OPEN ENDS SHALL BE PROTECTED UNTIL FINAL CONNECTIONS ARE MADE.
- ABOVE GRADE DOMESTIC WATER PIPING SHALL BE SLOPED AT A MINIMUM OF 1/32 INCH PER FOOT AND ARRANGED TO DRAIN AT LOW POINTS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE JOINTS OR CONNECTED EQUIPMENT. ROUTE PIPING IN AN ORDERLY MANNER-PARALLEL OR PERPENDICULAR TO WALLS WHEN POSSIBLE-AND MAINTAIN GRAFIENT. EACH SUPPLY BRANCH LINE SERVING MORE THAN ONE FIXTURE SHALL HAVE A SHUTOFF VALVE INSTALLED TO ISOLATE ALL FIXTURES AND PIECES OF EQUIPMENT SUPPLIED BY THE BRANCH LINE. THE SHUTOFF VALVE SHALL BE LABELED AND LOCATED AS CLOSE TO THE CONNECTION TO THE SUPPLY MAIN AND ASER AS POSSIBLE. PROVIDE A FULL-OPEN VALVE ON THE BASE OF EVERY WATER RISER PIPE AND ON THE TOP OF EVERY WATER DOWN-FEED PIPE. PROVIDE VALVE HANDLE EXTENSIONS AS NECESSARY FOR INSULATION.
- IT SHALL BE THE RESPONSIBILITY OF THE PC TO SUSPEND AND SUPPORT ALL PIPING SYSTEMS FOLLOWING RECOGNIZED ENGINEERING PRACTICES AND USING STANDARD, COMMERCIAELY ACCEPTED PIPE HANGERS AND SUSPENSION EQUIPMENT. ALL FIXTURES, DEVICES, AND EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT RELY ON CEILING OR WALL SURFACES FOR SUPPORT. THE SUPPORT ATTACHMENT SHALL SUPPORT THE WEIGHT OF THE FIXTURE OR EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT ITSELF. SUPPORT FROM THE TOP CHORD OF THE ROOF JOISTS, GIRDERS, AND BEAMS. THE BOTTOM CHORD IS NOT TO BE USED FOR EQUIPMENT AND PIPING SUPPORT. HANGERS SHALL NOT BE ATTACHED TO CORRUGATED STEEL DECKING. USE STEEL HANGERS FOR STEEL AND PLASTIC PIPE AND COPPER OR COPPER-PLATED HANGERS FOR COPPER PIPE. PROVIDE PROTECTION FOR COPPER PIPING IN CONTACT WITH DISSIMILAR METALS. WHERE COPPER PIPING IS SUPPORTED ON HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS. IN GENERAL, HANGERS SHALL BE CLEVIS TYPE, STANDARD WEIGHT, FOR PIPING; HANGER SPACING SHALL BE IN ACCORDANCE WITH TABLE 3308.3 OF THE NC PLUMBING CODE. HANGERS AND ACCESSORIES SHALL BE GRNELL, WATSON, OR B-LINE.
- SLEEVE ALL PIPES PASSING THROUGH PARTITIONS, WALLS, AND FLOORS. SLEEVES IN FLOORS AND INTERIOR WALLS OF POURED IN PLACE CONCRETE, BRICK, TILE, OR MASONRY WALLS SHALL BE SCHEDULE 40 STEEL PIPE, MACHINE CUT. SLEEVES IN GYPSON BOARD WALLS SHALL BE 22 GAUGE, ROLLED GALVANIZED SHEET METAL. TACK WELD ON THE LONGITUDINAL SEAM. PROVIDE SLEEVES WHERE PIPES PASS THROUGH FLOORS AND WALLS ABOVE AND BELOW CEILING. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELDED SPLIT SLEEVES TOGETHER. SLEEVES IN WALLS SHALL BE INSTALLED INSIDE THE WALL. SLEEVES IN FLOORS SHALL EXTEND 3/4 INCH ABOVE THE FLOOR EXCEPT THEY SHALL BE FLUSH FOR 2 HOUR RATED FLOORS-AND SHALL BE FLUSH WITH THE STRUCTURE BELOW. EACH SLEEVE SHALL HAVE AN INSIDE DIAMETER 1 INCH LARGER THAN THE OUTSIDE DIAMETER OF THE COVERING OF EACH COVERED PIPE TO ALLOW CONTINUOUS INSULATION-BUT NOT LESS THAN TWO PIPE SIZES LARGER THAN EACH UNCOVERED. ANNUAL SPACES BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR CAULKED IN AN APPROVED MANNER.
- THE TOP OF WATER PIPES INSTALLED BELOW GRADE OUTSIDE THE BUILDING SHALL BE BELOW THE FROST LINE OR A MINIMUM OF 12 INCHES BELOW FINISHED GRADE WHOEVER IS GREATER. WATER PIPING INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL. INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED UTILITY ROOM OR UNCONDITIONED ATTIC SHALL BE INSULATED TO A MINIMUM OF R6.5 DETERMINED IN ACCORDANCE WITH ASTM C 177.
- HOT WATER PROVIDED TO PUBLIC HAND-WASHING FACILITIES/LAVATORIES SHALL BE TEMPERED WATER DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.
- INSULATE ALL EXPOSED WASTE AND SUPPLY PIPING UNDER LAVATORIES, SINKS, AND ELECTRIC WATER COOLERS WITH THE HAND-LAY GUARD INSULATION KIT BY TRUEBRO OR EQUAL.
- POTABLE WATER OUTLETS SHALL BE PROTECTED FROM BACKFLOW IN ACCORDANCE WITH 608.15. PRESSURE TYPE VACUUM BREAKERS SHALL CONFORM TO ASSE 1020 AND SPROUFGO VACUUM BREAKERS SHALL CONFORM WITH ASSE 1056. HOSE-CONNECTION VACUUM BREAKERS SHALL CONFORM TO ASSE 1011, ASSE 1019, ASSE 1035, OR ASSE 1052. CONNECTIONS TO BEVERAGE DISPENSERS, COFFEE MACHINES, AND NON-CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED BY A BACKFLOW PREVENTER IN ACCORDANCE WITH ASSE 1022.

- THE PC SHALL INSTALL WATER HAMMER ARRESTORS ON BRANCH LINES WITH QUICK CLOSING VALVES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- THE PC SHALL PROVIDE CHECK VALVES AT ALL FIXTURES WITH THREADED OUTLETS AS REQUIRED BY CODE. TRAP PRIMERS SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS REQUIRED.
- ADJUST STOPS AND VALVES FOR INTENDED FLOW RATE TO FIXTURES WITHOUT SPLASHING, NOISE, OR OVERFLOW.
- BEFORE COMMENCING WORK, CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS, AND VERIFY THESE CAN BE PROPERLY CONNECTED TO WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING, ONCE INVERTS AND FALL HAVE BEEN ESTABLISHED. EXTEND SANITARY SEWER PIPING 10 FEET OUTSIDE THE BUILDING AND INSTALL ALL DRAINS, STACKS, VENTS, FLOOR DRAINS, AND CLEANDUTS NECESSARY FOR A COMPLETE INSTALLATION.
- ALL SANITARY SEWER PIPING IS BELOW GRADE OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING IS ABOVE THE CEILING OR WITHIN WALLS UNLESS OTHERWISE NOTED. SOIL AND WASTE PIPING SHALL BE INSTALLED TO PROVIDE PROTECTION AGAINST FREEZING PER 305.4.1. WASTE AND SOIL LINES LEAVING THE BUILDING MUST HAVE A MINIMUM COVER OF 3 INCHES.
- SOIL AND WASTE LINES 2-1/2 INCHES AND SMALLER SHALL BE SLOPED AT 1/4 INCH PER FOOT MINIMUM. SOIL AND WASTE LINES 3 INCHES TO 6 INCHES IN DIAMETER SHALL BE SLOPED AT 1/8 INCH PER FOOT MINIMUM.
- FOR WATER CLOSET WASTE CONNECTIONS, A 4 INCH BY 3 INCH CLOSET BEND SHALL BE ACCEPTABLE. WHERE A 4 INCH BEND IS UTILIZED ON WATER CLOSETS, A 4 INCH BY 3 INCH FLANGE SHALL BE INSTALLED TO RECEIVE THE FIXTURE HORN.
- FOR PLASTIC PIPE SIZES GREATER THAN 6 INCHES, AND OTHER PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACKES, BLOKS, RODDING, BACKFILL AND OTHER SUITABLE METHODS AS SPECIFIED BY THE MANUFACTURER SHALL BE UTILIZED.
- BASES OF STACKS SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, VIRGIN OR COMPACTED EARTH, OR OTHER SUITABLE MATERIAL TO SUPPORT THE WEIGHT OF THE PIPING.
- HORIZONTAL DRAIN PIPES SHALL HAVE CLEANDUTS IN ACCORDANCE WITH 708.10. EXTEND CLEANDUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANDUTS WITH A MATURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT ALL CLEANDUTS FOR ROODING OF DRAINAGE SYSTEM. INSTALL FLOOR CLEANDUTS AT AN ELEVATION TO ACCOMMODATE FINISHED FLOOR. EVERY CLEANDUT SHALL BE INSTALLED TO ALLOW CLEANING IN THE DIRECTION OF FLOW OF THE DRAINAGE PIPE OR AT RIGHT ANGLES THERETO. CLEANDUTS ON 6 INCH AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 INCHES FOR ROODING.
- DRAINAGE PIPING FOR FUTURE FIXTURES SHALL TERMINATE WITH AN APPROVED CAP OR PLUG.
- AMITTANCE VALVES SHALL BE INSTALLED AFTER THE DWV TESTING REQUIRED BY SECTIONS 312.2 AND 312.3. PROVIDE ACCESS TO ALL AIR ADMITTANCE VALVES PER CODE. INSTALLATION OF ALL AIR ADMITTANCE VALVES SHALL CONFORM TO SECTION 918 OF THE NC PLUMBING CODE. AIR ADMITTANCE VALVES SHALL CONFORM TO ASSE 1050 OR 1051.
- INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOR LEVEL, RM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
- THE PC SHALL PROVIDE UNIONS FOR DISASSEMBLY AND SERVICE OF ALL FIXTURES AND OTHER RELEVANT PLUMBING EQUIPMENT. UNIONS SHALL BE GROUND-JOINT WITH BRASS SEAL. PROVIDE INSULATING UNIONS AT EACH JOINTION OF DISSIMILAR METALS.
- THE PC SHALL ACCURATELY ROUGH-IN ALL FIXTURES ACCORDING TO MANUFACTURER'S INSTALLATION DIMENSIONS AND INSTRUCTIONS. OFFSET ADAPTERS AND FLEXIBLE CONNECTORS ARE NOT ACCEPTABLE. FLUSH HANDLES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS FOR ADA COMPLIANCE. INSTALL EACH FIXTURE WITH TRAP EASILY REMOVABLE FOR SERVICING AND CLEANING. SEAL FIXTURES TO WALL AND FLOOR SURFACES WITH SEALANT. SOLIDLY ATTACH WATER CLOSETS TO FLOOR WITH



XXXXXX - 1 HOUR RATED WALLS

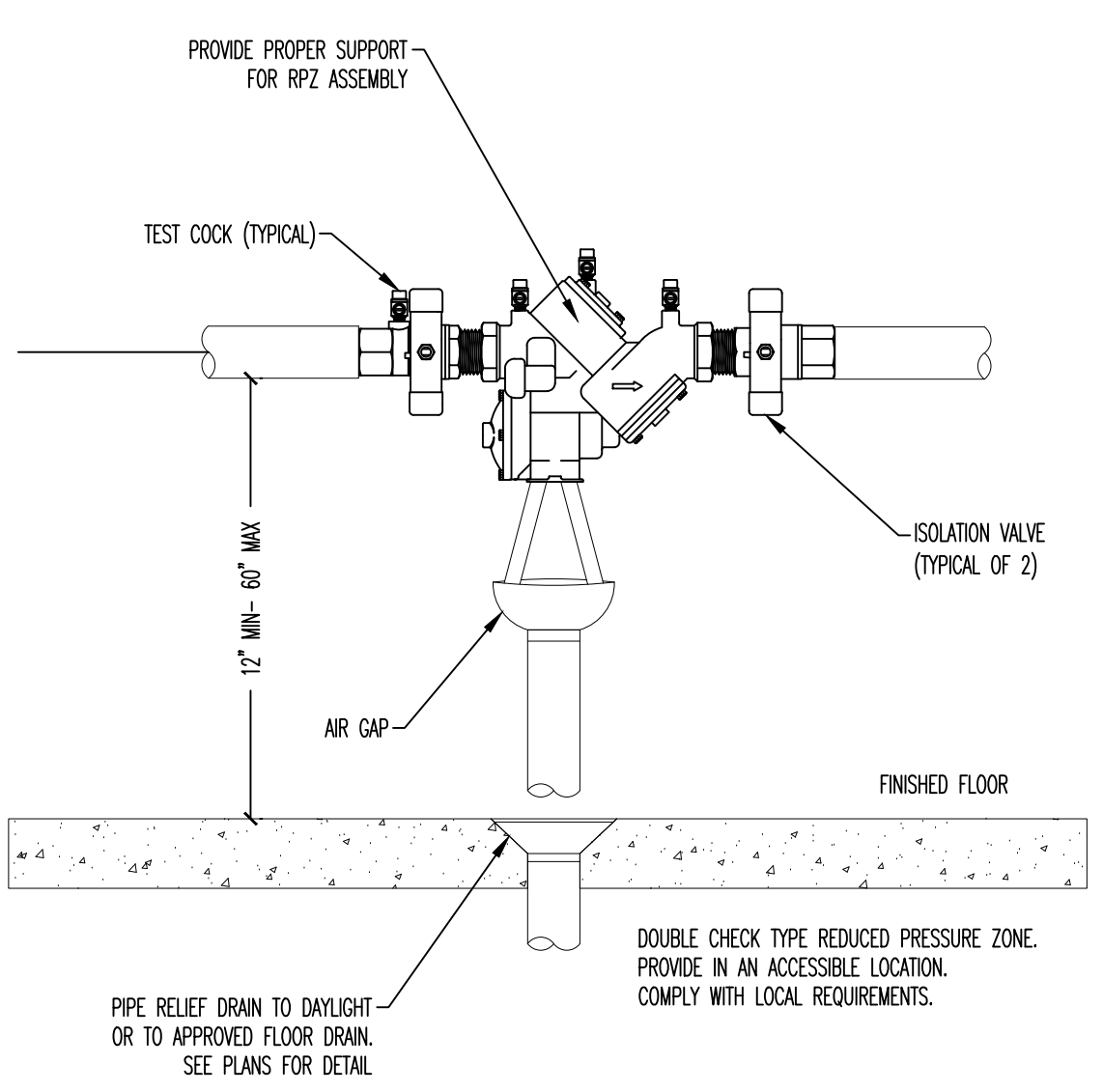
SANITARY PLAN - SCALE: 1/2" = 1' 1

DO NOT TAP WATER LINE AHEAD OF RPZ.

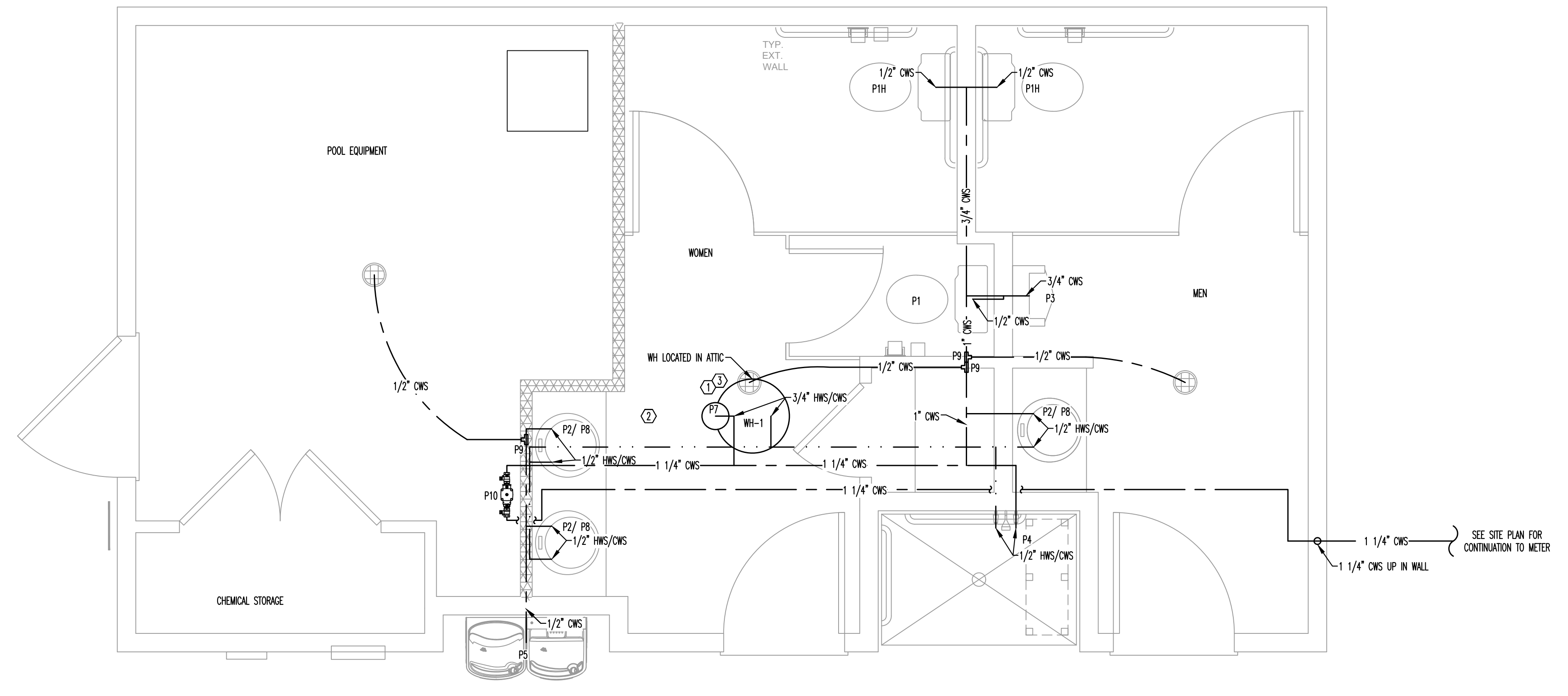
ALL REQUIRED VALVES NOT SHOWN.  
 INSTALL FULL OPEN VALVES PER 2018 PC CODE 606.1.5 AND 606.1.8  
 INSTALL SHUT OFF VALVES PER 2018 NC PLUMBING CODE 606.2 AND 606.2.1

DOMESTIC SUPPLY PLAN HEX NOTES

1. WATER HEATER LOCATED IN UNCONDITIONED AND UN-INSULATED ATTIC SPACE. WATER HEATED TO BE COMPLETELY DRAINED AT END OF POOL SEASON.
2. ALL SUPPLY LINES TO PLUMBING FIXTURES INCLUDING HOSE BIBS TO BE DRAINED AT END OF POOL SEASON. THIS DOES NOT INCLUDE POOL EQUIPMENT.
3. WATER HEATER TO BE WINTERIZED YEARLY, OTHERWISE WATER HEATER TO BE INSTALLED IN POOL EQUIPMENT ROOM WITH JUNIT HEATER.

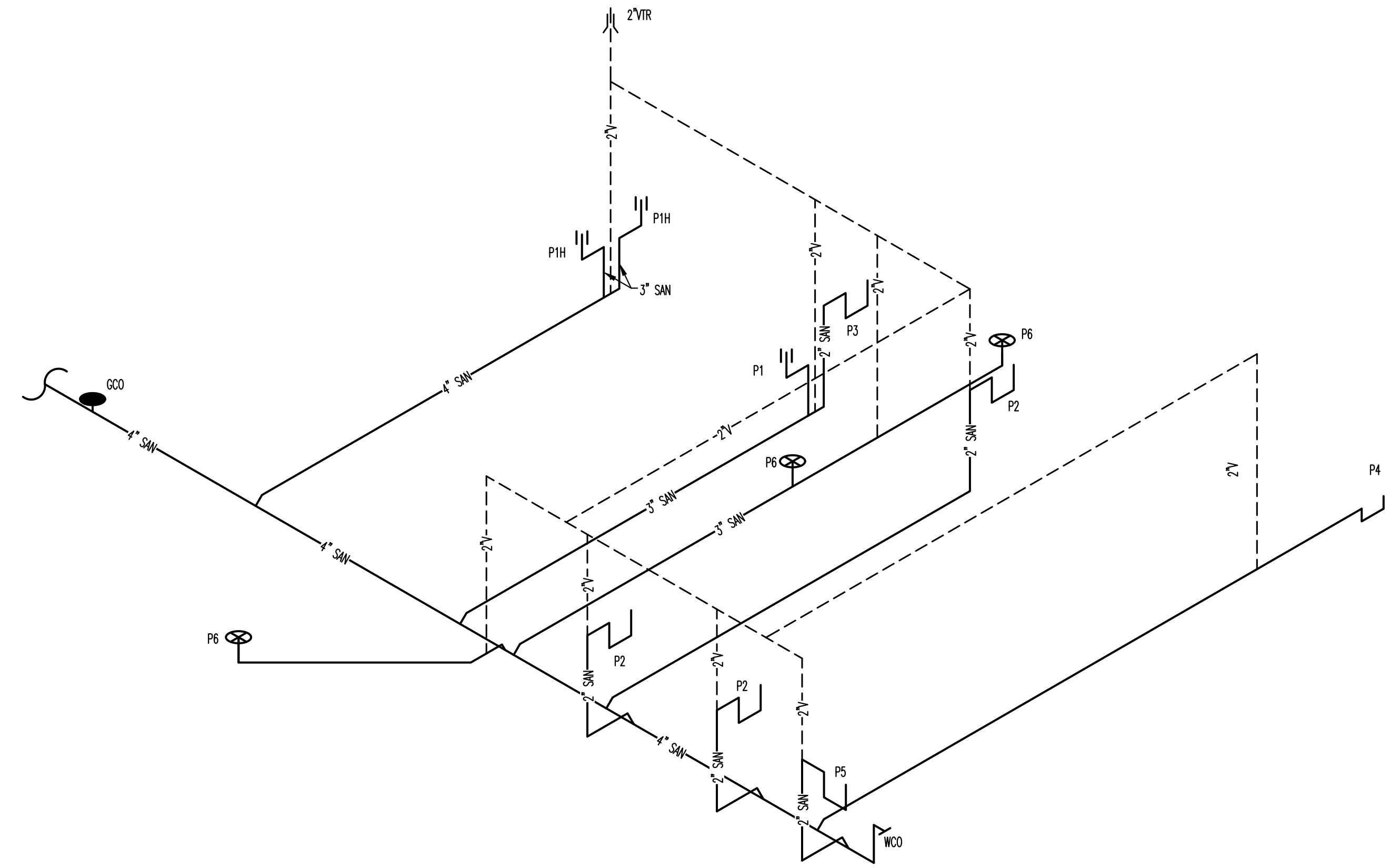


RPZ DETAIL - NO SCALE 2



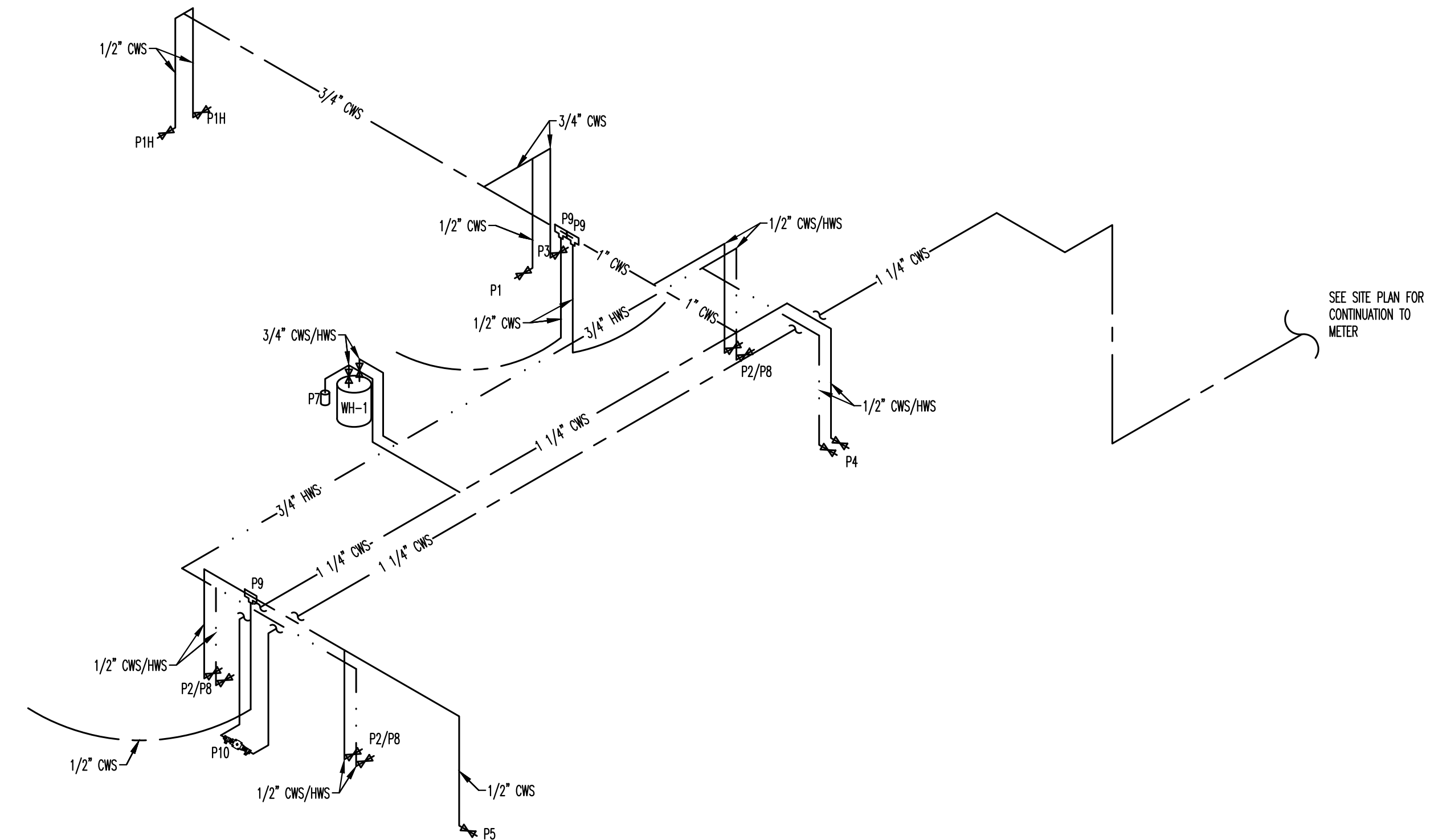
DOMESTIC SUPPLY PLAN - SCALE: 1/2" = 1' 3

REVISION:	
ISSUED:	
DRAWN BY: BSL	
CHECKED BY: MMW/REN	
SANITARY & DOMESTIC SUPPLY PLAN	
SHEET NO.	P2
PROJECT NO:	240602



SANITARY RISER - NO SCALE 1

ALL REQUIRED VALVES NOT SHOWN.  
 INSTALL FULL OPEN VALVES PER 2018 PC CODE 606.1.5 AND 606.1.8  
 INSTALL SHUT OFF VALVES PER 2018 NC PLUMBING CODE 606.2 AND 606.2.1



DOMESTIC SUPPLY RISER - NO SCALE 2

REVISION:


ISSUED:


DRAWN BY: BSL  
 CHECKED BY: MWM/REW  
 PLUMBING RISERS

SHEET NO. **P3**

ELECTRIC UNIT HEATER SCHEDULES

MARK	MFG	MODEL #	LOCATION	TYPE	WATTS	AIRFLOW	VOLTS/PH	WEIGHT	NOTES
UH-1	OMARK	MUR36	POOLHOUSE EQUIPMENT	WALL MOUNTED	5,000	210 CFM	240/1	22	1, 2

- PROVIDE WITH WALL/CLG. MOUNTING BRACKET.
- OR EQUAL BY MARKEL, RAWWALL OR MODINE.

ELECTRIC FAN-FORCED WALL HEATER SCHEDULE

MARK	MFG / MODEL #	AIR FLOW	HEATER	VOLT/PH	FLA	HDCP	NOTES
		CFM	KW		AMPS	AMPS	
CWH-1,2	OMARK / CWH340AF	100	4	240/1R	16.7	20.0	1-4

- BUILT-IN THERMOSTAT.
- BUILT-IN DISCONNECT SWITCH.
- PROVIDE WITH SURFACE MOUNTING SLEEVE KIT.
- PROVIDE WITH 14-GAUGE SECURITY FRONT COVER, WHITE.

REGISTER & GRILLE SCHEDULE

MARK	MFG	MODEL #	SIZE	MOUNTING	DESCRIPTION	NOTES
E	HART & COOLEY	RH90	12X12	SURFACE	HEAVY DUTY ALUMINUM EXHAUST GRILLE. SATIN ANODIZED FINISH.	1

- OR EQUAL BY PRICE, METAL-AIRE, CARNES, TITUS OR NALLOR.

EXHAUST FAN SCHEDULE

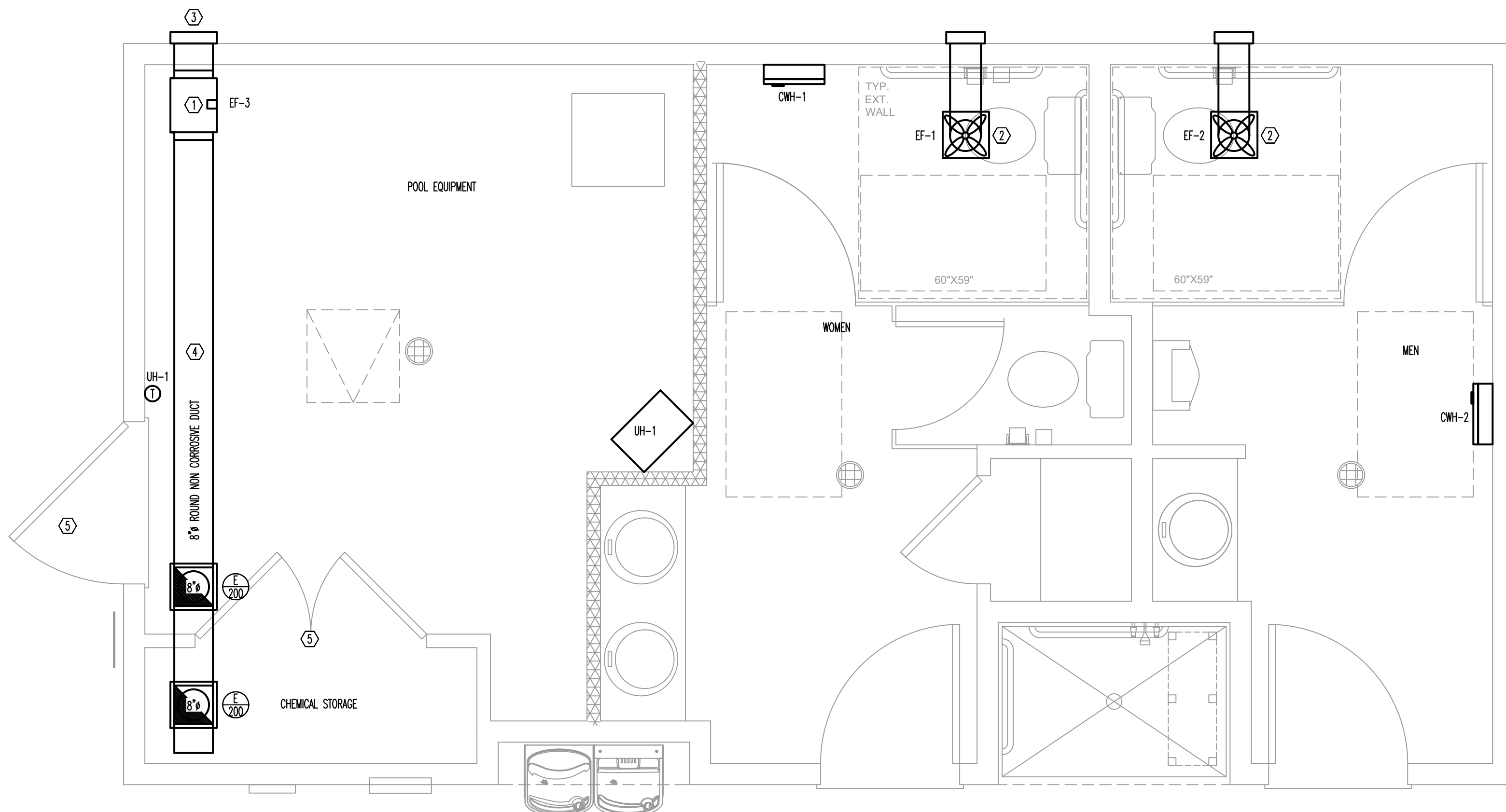
MARK	MFG / MODEL #	TYPE	ESP (1 in. WD)	CFM	VOLT/PH	FLA	SDNES	NOTES
EF-1,2	GREENHECK SP-A200	CEILING	0.40	179	120/1	0.43	3.0	1-3
EF-3	FANTECH PRIDAIR 6 EC	INLINE	0.25	409	120/1	1	-	1-4

- PROVIDE WITH PITCHED ROOF CURB & CAP FOR FLAT OR SLOPED ROOF, OR HOODED WALL WITH BACKDRAFT DAMPER CAP AS APPLICABLE.
- PROVIDE WITH SQUARE TO ROUND DUCT ADAPTER AS NECESSARY.
- OR EQUAL BY LOREN COOK OR PENNBARRY OF TWIN CITY.
- MC TO INSTALL EF-4 ROOF CAP ON FRONT SIDE OF ROOF AWAY FROM POOL DECK AREA.

### MECHANICAL SCHEDULE & DESIGNER'S STATEMENT 1

- HEX PLAN NOTES
- MC TO INSTALL CORROSION RESISTANT INLINE PLASTIC DUCT FAN IN ATTIC SPACE. MC TO CONNECT 8" DUCT FROM EXHAUST GRILLE TO CHEMICAL ROOM AND POOL EQUIPMENT ROOM TO MAIN 10" EXHAUST DUCT TO INLINE FAN. EXHAUST DUCT TO TERMINATE AT ROOF CAP LOCATED ON THE FRONT SIDE OF ROOF, AWAY FROM POOL DECK.
  - 8" FROM RESTROOM EXHAUST FAN TO EXTERIOR WALL. MC TO TERMINATE WITH HOODED WALL CAP. EXHAUST FAN TO BE CONTROLLED BY LIGHT OCCUPANCY SENSOR.
  - TERMINATE WITH HOODED WALL CAP. MC TO VERIFY A MINIMUM OF 3 FT FROM ANY OPERABLE OPENING.
  - DUCT WORK TO BE MADE OUT OF A NON CORROSIVE MATERIAL. DUCTWORK TO BE MOUNTED AT CEILING HEIGHT.
  - 18"x18" LOUVER TO BE INSTALLED IN DOOR. MC TO COORDINATE WITH GC.

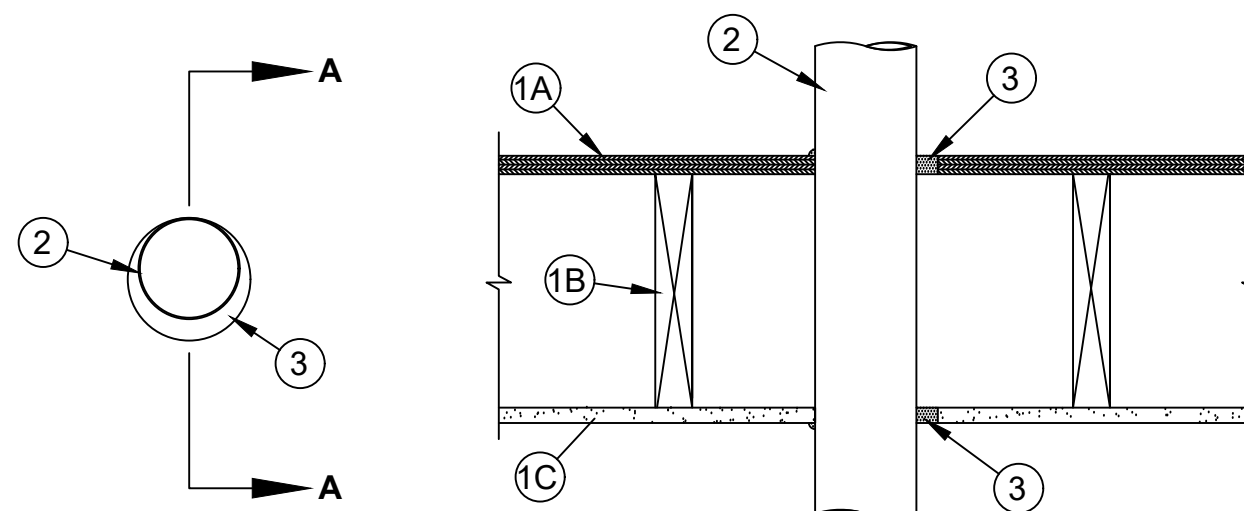
XXXXXXXXXX - 1 HOUR RATED WALLS



### MECHANICAL PLAN - SCALE: 1/2" = 1' 3

Classified by Underwriters Laboratories, Inc. to ANSUIUL 1479 (ASTM E814) and CAN/ULC S115 **System No. F-C-1074**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 Hr and 2 Hr (See Item 1)	F Ratings - 1 Hr and 2 Hr (See Item 1)
T Ratings - 1/4, 1/2 and 1 Hr (See Item 2)	FT Ratings - 1/4, 1/2 and 1 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings - 1 Hr and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Ratings - 1/4, 1/2 and 1 Hr (See Item 2)
	L Rating At Ambient - Less Than 5.1 L/s/m2
	L Rating At 400 F - Less Than 5.1 L/s/m2



- Floor - Ceiling Assembly - The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L536 in the UL Fire Resistance Directory. The F and FH Ratings of the firestop system are equal to the fire rating of the floor-ceiling assembly. The general construction features of the floor assembly are summarized below:
  - A. Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture as specified in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than the diam of the pipe.
  - B. Wood Joists - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
  - C. Gypsum Board\* - Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) greater than diam of pipe.
  - D. Furring Channel - (Not Shown) - In 2 hr fire-rated assemblies, resilient galv steel furring channels installed perpendicular to wood joists between base and face layers of gypsum board (Item C). Furring channels spaced max 24 in. (610 mm) OC with additional short lengths of furring channel installed adjacent to and max 3 in. (76 mm) from two opposing sides of penetrant.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876  
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Created or Revised: June 05, 2015  
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### FIRE RATED WALL DETAIL 2

### GENERAL MECHANICAL NOTES:

### ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
  - PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
  - MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
  - FASC - FIRE ALARM SYSTEM CONTRACTOR, AHJ - AUTHORITY HAVING JURISDICTION.
- "PROVIDE" MEANS TO FURNISH AND INSTALL. MC SHALL ALSO INSTALL MATERIALS FURNISHED BY OTHERS AND GENERAL CONTRACTOR AS SHOWN ON THE PLANS OR NECESSARY FOR A COMPLETE INSTALLATION.
- THE MC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE CONTRACTOR AT AN APPROVED LOCATION. THE MC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE MC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- THE MC SHALL INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL AND BUILDING CODES AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE MC SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
- THE MC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT. DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- THE MC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE MC SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE MC SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- ALL MECHANICAL MATERIALS SHALL BE NEW AND FREE OF DEFECT AND LISTED AND LABELED BY UL OR AN APPROVED THIRD PARTY AGENCY. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE MC WITHOUT ADDITIONAL COST TO THE OWNER. WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, THE CITED EXAMPLE IS INTENDED TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. SUCH EXAMPLES ARE USED TO CONVEY A GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF THE PRODUCT DESIRED; PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.
- THESE PLANS ARE DIAGRAMMATIC. THE MC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, DUCTS, REGISTERS, GRILLES, ETC., TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BEADS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE MC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONTINGENCIES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING.
- IT IS THE MC'S RESPONSIBILITY TO VERIFY THAT ITEMS FURNISHED FOR THIS CONTRACT WILL FIT IN THE SPACE AVAILABLE. THE MC SHALL MAKE FIELD MEASUREMENTS AS NECESSARY TO DETERMINE SPACE REQUIREMENTS. IF THE MC MUST ALTER EQUIPMENT DUE TO SPACE CONSIDERATIONS, THE MC SHALL PROVIDE SIZES AND SHAPES THAT FIT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS.
- MC SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING THE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT BEING PROVIDED.
- MAINTAIN CLEARANCES FOR ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR SERVICEABILITY. ALL ROOFTOP EQUIPMENT MUST BE A MINIMUM OF 10 FEET FROM ROOF EDGE.
- MC SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF THE PROJECT. MC SHALL PROVIDE ALL DOCUMENTATION TO THE OWNER AS NECESSARY TO SUBMIT FOR FACTORY WARRANTIES.
- CONTRACTOR SHALL PROTECT ALL HVAC EQUIPMENT FROM CONSTRUCTION AND SHEET ROCK DUST DURING CONSTRUCTION. ALL FILTERS SHALL BE REPLACED WITH NEW AT THE COMPLETION OF THE PROJECT.
- ALL EQUIPMENT INSTALLED ON ROOF MUST BE WITHIN THE ROOF SCREEN.
- IF A ROOF PENETRATOR IS REQUIRED AND THE ROOF IS UNDER WARRANTY, USE THE AUTHORIZED ROOFER. PROVIDE DOCUMENTATION.
- ALL PIPING, WIRING, CONDUIT, INSULATION, EQUIPMENT, SUPPORTS, ETC. SHALL BE SUITABLE FOR INSTALLATION IN A RETURN PLENUM AS NECESSARY. COORDINATE WITH OTHER TRADES ON LOCATIONS OF ALL PLENUMS.
- MC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

### MATERIALS:

- THE MC SHALL PROVIDE ALL DX UNITARY HEATING AND COOLING EQUIPMENT AS SCHEDULED ON THE DRAWINGS. THE MC SHALL PROVIDE FACTORY AND FIELD INSTALLED ACCESSORIES AS SCHEDULED OR AS NECESSARY FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM.
- THE MC SHALL PROVIDE ALL EXHAUST AND SUPPLY FANS AS SCHEDULED. FANS SHALL BE BY GREENHECK, LOREN COOK, TWIN CITY, OR PENNBARRY. DUCTWORK IS SHOWN WITH FREE AREA DIMENSIONS. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARD, 2 INCH S.P.
- EXTERNAL DUCT INSULATION AND FACTORY-INSULATED FLEXIBLE DUCT SHALL BE LEGIBLY PRINTED OR IDENTIFIED AT INTERVALS NOT GREATER THAN 36 INCHES WITH THE NAME OF THE MANUFACTURER, THE THERMAL RESISTANCE R-VALUE AT THE SPECIFIED THICKNESS AND THE FLAME SPREAD AND SMOKE-DEVELOPED INDEXES OF THE COMPOSITE MATERIALS. ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY, EXCLUDING AIR FILMS, VAPOR RETARDERS OR OTHER DUCT COMPONENTS, AND SHALL BE BASED ON TESTED C-VALUES AT 75°F MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH RECOGNIZED INDUSTRY PROCEDURES. THE INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUES SHALL BE DETERMINED AS FOLLOWS:
  - 4.1. FOR DUCT BOARD, DUCT LINER AND FACTORY-MADE RIGID DUCTS NOT NORMALLY SUBJECTED TO COMPRESSION, THE NOMINAL INSULATION THICKNESS SHALL BE USED.
  - 4.2. FOR DUCT WRAP, THE INSTALLED THICKNESS SHALL BE ASSUMED TO BE 75 PERCENT (25-PERCENT COMPRESSION) OF NOMINAL THICKNESS.
  - 4.3. FOR FACTORY-MADE FLEXIBLE AIR DUCTS, THE INSTALLED THICKNESS SHALL BE DETERMINED BY DIVIDING THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
- DUCT LINER MAY BE SUBSTITUTED FOR EXTERIOR DUCT WRAP. DUCT LINER INSULATION MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM C 1071, AND ASTM G 21. EXTERIOR DUCT R-VALUE SHALL BE R-8 AND INTERIOR R-VALUE SHALL BE R-6 IN ACCORDANCE WITH THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE. NOMINAL DUCT SIZES SHALL BE ADJUSTED AS NECESSARY SO THAT FREE AREA DIMENSIONS ARE PRESERVED AS SHOWN ON THE PLANS. FABRICATION AND INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND TO THE REQUIREMENTS OF THE LATEST EDITION OF THE NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION FIBROUS GLASS DUCT LINER STANDARDS AND/OR SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT LINER SHALL HAVE A BLACK PIGMENTED MAT ON THE AMBSTREAM SIDE TO RESIST DAMPING DURING INSTALLATION AND SERVICE. EDGES SHALL BE FACTORY COATED WITH BLACK PIGMENTED COATING TO COMPLY WITH SMACNA DCS REQUIREMENTS. ALL PORTIONS OF DUCT DESIGNATED TO RECEIVE DUCT LINER SHALL BE COMPLETELY COVERED WITH DUCT LINER. TRANSVERSE JOINTS SHALL BE NEATLY BUTTED AND THERE SHALL BE NO INTERRUPTIONS OR GAPS. THE BLACK PIGMENTED OR MAT FACED SURFACES SHALL FACE THE AMBSTREAM. DUCT LINER SHALL BE ADHERED TO THE SHEET METAL WITH 90 PERCENT COVERAGE OF ADHESIVE COMPLYING WITH REQUIREMENTS OF ASTM C 916. ALL EXPOSED LEADING EDGES AND TRANSVERSE JOINTS SHALL BE FACTORY COATED OR COATED WITH ADHESIVE DURING FABRICATION. DUCT LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS, EITHER WELD-SECURED OR IMPACT DRIVEN, WHICH SHALL COMPRESS THE DUCT LINER SUFFICIENTLY TO HOLD IT FIRMLY IN PLACE. ADHESIVE BONDED PINS ARE NOT PERMITTED DUE TO LONG-TERM ADHESIVE AGING CHARACTERISTICS. LININGS SHALL BE INTERRUPTED AT THE AREA OF OPERATION OF A FIRE DAMPER AND AT A MINIMUM OF 6 INCHES UPSTREAM AND 6 INCHES DOWNSTREAM OF ELECTRIC RESISTANCE AND FUEL-BURNING HEATERS IN A DUCT SYSTEM. METAL NOSINGS

- OR SLEEVES SHALL BE INSTALLED OVER EXPOSED DUCT LINER THAT FACE OPPOSITE THE DIRECTION OF AIRFLOW. UPON COMPLETION OF INSTALLATION OF DUCT LINER AND BEFORE OPERATION IS TO COMMENCE, VISUALLY INSPECT SYSTEM AND VERIFY THAT THE DUCT LINER IS PROPERLY INSTALLED. OPEN ALL SYSTEM DAMPERS AND TURN ON FANS TO BLOW ALL SCRAP AND OTHER LOOSE PIECES OF MATERIAL OUT OF THE DUCT SYSTEM. ALLOW FOR A MEANS OF REMOVAL OF SUCH MATERIAL.
- ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578. ALL INSULATION SHALL HAVE FORMALDEHYDE EMISSIONS NOT GREATER THAN 0.05 PPM. THE MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.
- MASTIC USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A-95 OR UL 181B-96. MAINTAIN AMBIENT TEMPERATURES AND CONDITIONS REQUIRED BY MANUFACTURER OF ADHESIVES, MASTICS, AND INSULATION CEMENTS. DO NOT INSTALL DUCT SEALANT WHEN TEMPERATURES ARE LESS THAN THOSE RECOMMENDED BY THE SEALANT MANUFACTURER.
- ALL ADHESIVES AND SEALANTS SHALL HAVE VOC CONTENT BELOW 20 GRAMS PER LITER AND WHICH MEET THE REQUIREMENTS OF THE MANUFACTURER OF THE PRODUCTS BEING ADHERED OR INVOLVED. ADHESIVES AND SEALANTS SHALL CONTAIN NO HEAVY METALS OR FORMALDEHYDE.
- FACTORY-MADE AIR DUCTS AND CONNECTORS SHALL COMPLY WITH UL 181-96. FLEXIBLE DUCT SHALL BE UL LISTED CLASS O OR CLASS 1, INSULATED, AND COMPLY WITH UL 181. FLEXIBLE DUCT SHALL BE FACTORY FORMED, COMPOSED OF SPIRAL WOUND CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER. DUCT SHALL BE FACTORY INSULATED WITH A FOIL VAPOR BARRIER JACKET. CONNECT TO RIGID DUCT WITH SPIN-IN FITTING AND DAMPER. FLEXIBLE DUCTS AND AIR CONNECTORS SHALL NOT PASS THROUGH ANY FIRE RESISTANCE RATED ASSEMBLY.
- THE MC SHALL PROVIDE ALL DIFFUSERS, GRILLES, LOUVERS, AND OTHER AIR DISTRIBUTION OUTLETS AND INLETS. LOUVERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR LAY-IN CEILING, INSTALL SUPPORT FROM THE STRUCTURE FOR EACH DIFFUSER OR DAMPER. AIR DISTRIBUTION OUTLETS AND INLETS SHALL BE BY HART & COOLEY, PRICE, METAL-AIRE, NALLOR, OR CARNES.
- AIR FILTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 605 OF THE 2018 NC MECHANICAL CODE.

### METHODS:

- INSULATE DUCTWORK WITH FIBERGLASS DUCT WRAP. INSTALLED R-VALUE SHALL BE A MINIMUM R-6. CORNERS AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX MORE THAN 10. SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL NEW DUCTWORK SHALL RECEIVE INSULATION ON THE OUTSIDE. INSTALL DUCT WRAP INSULATION WITH FACTORY OUTSIDE SO THAT TAPE FLAP OVERLAPS INSULATION AND FACING OF ADJACENT PIECE OF DUCT WRAP. INSULATION SHALL BE TIGHTLY BUTTED. FOR RECTANGULAR DUCTS, INSTALL 60 INSULATION IS NOT EXCESSIVELY COMPRESSED AT DUCT CORNERS. STAPLE SEAMS APPROXIMATELY 6 INCHES ON CENTER WITH OUTWARD CLINCHING STAPLES. SEAL SEAMS WITH PRESSURE SENSITIVE TAPE MATCHING THE FACING. FOR RECTANGULAR DUCTS 24 INCHES IN WIDTH OR GREATER, SECURE DUCT WRAP TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SPACED 18 INCHES ON CENTER TO PREVENT SAGGING OF INSULATION. ADJACENT SECTIONS OF DUCT WRAP SHALL BE TIGHTLY BUTTED WITH THE 2 INCH TAPE FLAP OVERLAPPING. ALL BEAMS, PUNCTURES, ETC. OF THE DUCT WRAP INSULATION SHALL BE SEALED WITH TAPE OR MASTIC TO PROVIDE A VAPOR TIGHT SYSTEM. INSULATION SHALL BE BY KNAPP INSULATION, OWENS CORNING CORP, OR CERTAINTEED CORPORATION.
- VERIFY THAT DUCTS HAVE BEEN TESTED BEFORE APPLYING INSULATION MATERIALS. VERIFY THAT DUCT SURFACES ARE CLEAN, DRY AND FREE OF FOREIGN MATERIAL PRIOR TO INSULATING. DUCT CORNERS SHALL NOT PENETRATE A WALL OR FLOOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING OR REQUIRED TO BE FIRE BLOCKED.
- WHERE DUCTS ARE CONNECTED TO EXTERIOR WALL LOUVERS AND DUCT OUTLET IS SMALLER THAN LOUVER FRAME, PROVIDE BLANK-OUT PANELS SEALING LOUVER AREA AROUND DUCT. USE SAME MATERIAL AS DUCT, PAINTED BLACK ON EXTERIOR SIDE. SEAL TO LOUVER FRAME AND DUCT.
- DUCTS CONNECTING TO A FURNACE SHALL HAVE A CLEARANCE TO COMBUSTIBLES IN ACCORDANCE WITH THE FURNACE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR STRUCTURES IN FLOOD HAZARD AREAS, DUCTS SHALL BE LOCATED ABOVE THE DESIGN FLOOD ELEVATION. DUCT SHALL NOT BE INSTALLED IN OR WITHIN 4 INCHES OF THE EARTH.
- PROVIDE DUCT ACCESS DOORS FOR INSPECTION AND CLEANING BEFORE AND AFTER FILTERS, COILS, FANS, AUTOMATIC DAMPERS, AT FIRE DAMPERS, COMBINATION FIRE AND SMOKE DAMPERS.
- CONSTRUCT T's, BENDS, AND ELBOWS WITH RADI OF NOT LESS THAN 1-1/2 TIMES THE WIDTH OF THE DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS MUST BE USED, PROVIDE TURNING VANES.
- INCREASE DUCT SIZES PROGRESSIVELY, NOT EXCEEDING 15 DEGREES CONVERGENCE; MAXIMUM OF 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.
- IT SHALL BE THE RESPONSIBILITY OF THE MC TO SUSPEND AND SUPPORT ALL EQUIPMENT, DUCTWORK, DIFFUSERS, AND OTHER MATERIALS FOLLOWING RECOGNIZED ENGINEERING PRACTICES AND USING STANDARD, COMMERCIALY ACCEPTED HANGERS AND SUSPENSION EQUIPMENT. ALL HVAC EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT RELY ON CEILING OR WALL SURFACES FOR SUPPORT. THE SUPPORT ATTACHMENT SHALL SUPPORT THE WEIGHT OF THE EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT ITSELF. SUPPORT FROM THE TOP CHORD OF THE ROOF JOISTS, GIRDERS, AND BEAMS. THE BOTTOM CHORD IS NOT TO BE USED FOR EQUIPMENT OR PIPING SUPPORT. HANGERS SHALL NOT BE ATTACHED TO CORRUGATED STEEL DECKING.
- DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA AT INTERVALS NOT EXCEEDING 10 FEET. DUCTS 36 INCHES OR LARGER SHALL HAVE TRAPEZE TYPE HANGERS SUSPENDED WITH THREADED ROD. SUPPORT DUCTS FROM BAR JOISTS, GIRDERS, OR BEAMS.
- CHECK LOCATIONS OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENT. COORDINATE WITH SPRINKLER CONTRACTOR IF APPLICABLE.
- PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL MINIMUM 2 DUCT WIDTHS FROM DUCT TAKE-OFF. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFFS TO DIFFUSERS, AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER OR REGISTER ASSEMBLY. ADJUST AIR HANDLING AND DISTRIBUTION SYSTEMS TO PROVIDE DESIGN SUPPLY, RETURN, AND EXHAUST AIR QUANTITIES AT SITE ALTITUDE.
- MC SHALL INSTALL FIRE DAMPERS AT EACH PENETRATION OF A RATED WALL AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FIRE DAMPERS SHALL BE UL LABELED (UL 555), CURTAIN TYPE, WITH INTEGRAL FACTORY SLEEVE AND BLADES LOCATED OUTSIDE THE AIR STREAM. INSTALLATION OF ALL FIRE DAMPERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SECTION 607 OF THE 2018 NC MECHANICAL CODE. PROVIDE ACCESS PANELS FOR TESTING AND SERVICE AS NECESSARY. MC SHALL PROVIDE RETURN DAMPERS AND THERMAL BLANKETS FOR ALL PENETRATIONS OF RATED CEILING ASSEMBLIES. RADIATION DAMPERS SHALL BE UL LABELED (UL 555) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS. FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND CEILING/RADIATION DAMPERS SHALL BE BY RUSKIN, NALLOR, OR LLOYD INDUSTRIES.
- MC SHALL INSTALL PROGRAMMABLE THERMOSTATS AS SHOWN ON THE PLANS. THERMOSTAT SHALL BE MOUNTED AT 48 INCHES AFF. THERMOSTATS SHALL MEET THE REQUIREMENTS OF SECTION C403.2.4 OF THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.
- FRESH AIR INTAKES SHALL BE INSTALLED ON ALL UNITS AS SHOWN ON DRAWINGS. MAINTAIN 10 FEET OF DISTANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST TERMINATIONS AND PLUMBING VENT THRU ROOFS.
- MC SHALL INSTALL ALL EXHAUST FANS AND VENT TO THE BUILDING'S EXTERIOR. EC SHALL SWITCH FANS WITH LIGHTS OR ON SEPARATE SWITCH AS SHOWN. INSTALL BACKDRAFT DAMPERS ON FRESH AIR AND EXHAUST DUCTS WHERE THEY PENETRATE THE THERMAL ENVELOPE PER NORTH CAROLINA ENERGY CONSERVATION CODE C402.5.5.

### MECHANICAL NOTES 4

Kilian Engineering, Inc.  
Professional Engineer License No. 217536  
10/28/2024  
CAPE OVERLOOK POOL HOUSE  
REVISION:  
ISSUED:  
DRAWN BY: BSL  
CHECKED BY: MMW/REW  
MECHANICAL PLAN  
SHEET NO. M1  
PROJECT NO: 240602

Table with columns: MARK, DESCRIPTION, LOWVOLT/LENS, LAMPS, VOLTAGE, INPUT WATTAGE, MOUNTING, REMARKS, MFG, MODEL. Includes items like 4' WRAP LED, EXTERIOR COVER DOOR LED EMERGENCY LIGHT, LED EXIT/EMERGENCY COMBO, and DUAL HEAD EMERGENCY FIXTURE.

- 1. FIXTURE SHALL HAVE BATTERY BACKUP FOR 90 MINUTE ILLUMINATION.
2. OR EQUAL BY COOPER, MOOREN, OR CURRENT BY GE LIGHTING OR HUBBELL LIGHTING

Table with columns: SYMBOL, DESCRIPTION, REMARKS. Includes symbols for single pole wall switch, low voltage switch, ceiling occupancy sensor, power pack, and exhaust fan.

Table with columns: SYMBOL, DESCRIPTION, REMARKS. Includes symbols for data and telephone jack, duplex receptacle, disconnect switch, and junction box.

ELECTRICAL DESIGNER'S STATEMENT

Table with columns: LIGHTING SCHEDULE, OCCUPANCY, AREA, ALLOWANCE, WATTAGE ALLOWED. Includes rows for RESTROOM, STORAGE, and TOTAL.

FOR THE ADDITIONAL PRESCRIPTIVE REQUIREMENT REQUIRED BY CODE OF 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WE ARE CHOOSING C406.3 - REDUCED LIGHTING POWER DENSITY.
22 W SPECIFIED = 265 W (294.8 W ALLOWED X 90%)

ELECTRICAL SCHEDULES 1

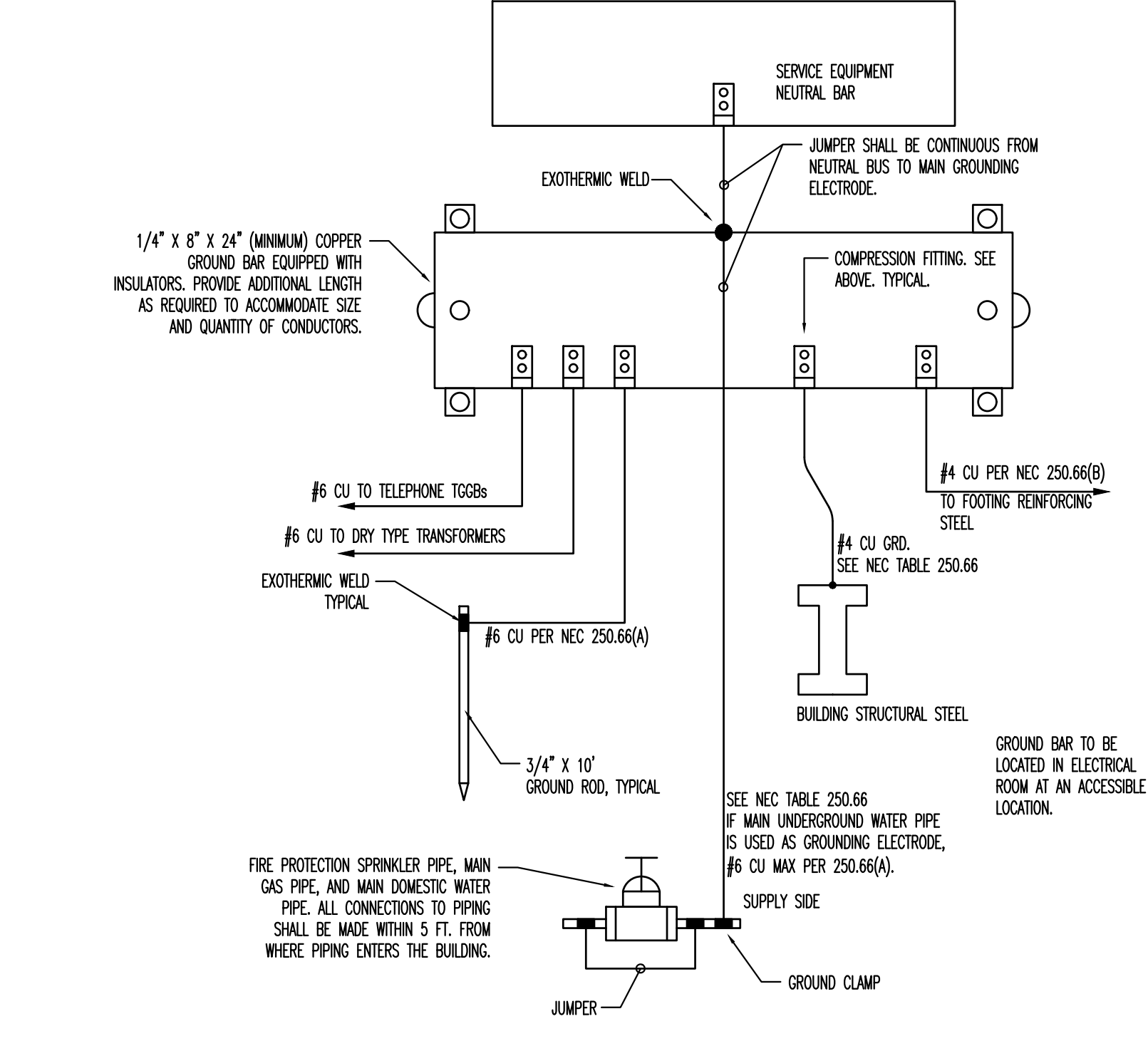
Table with columns: CKT, LOAD, BRK, PH, LOAD, CKT. Lists various loads like RESTROOM LIGHTS, WATER FOUNTAIN, STORAGE UNIT HEATER, and various SPACE loads.

Table with columns: VOLTAGE/PHASE, BUS RATING, MAIN CIRCUIT BREAKER RATING, AIC RATING, SERVICE ENTRANCE RATED, ENCLOSURE, MOUNTING.

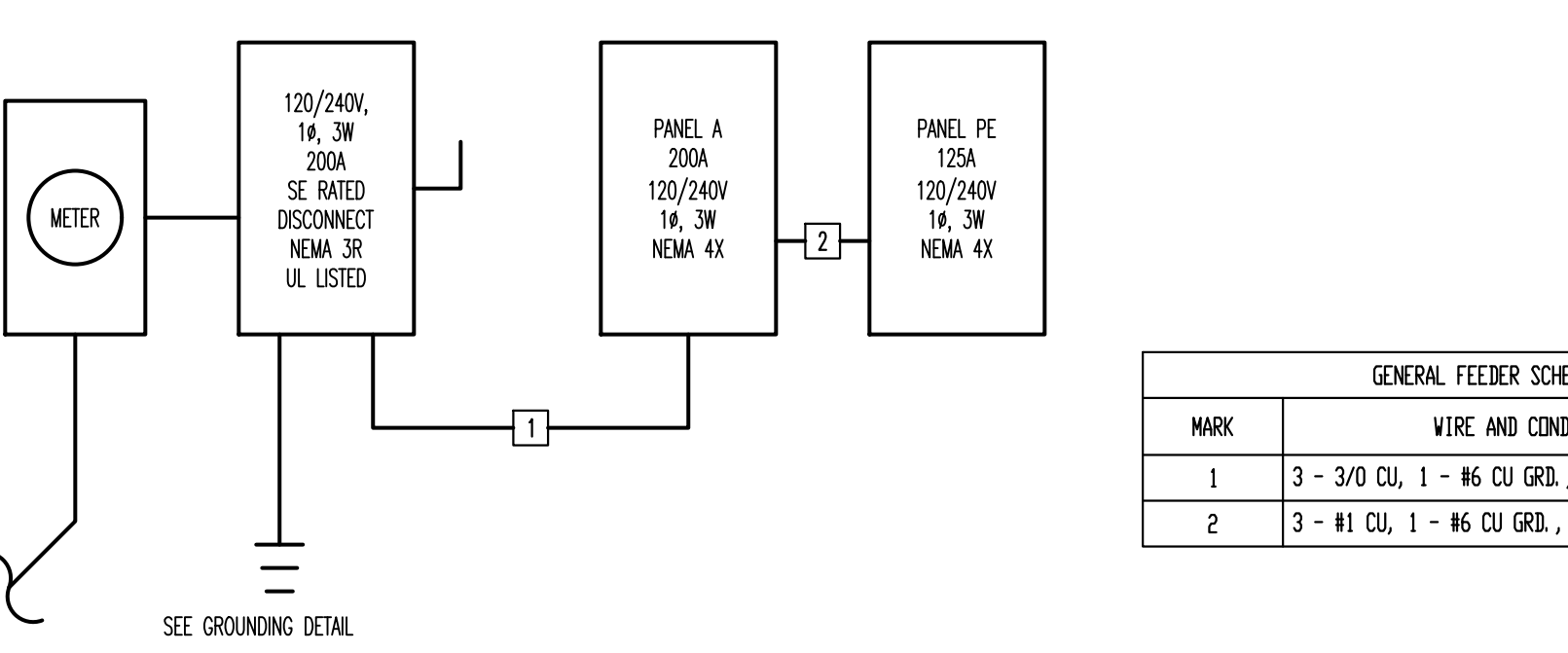
Table with columns: EQUIPMENT, DEMAND FACTOR, A, B, LOAD KVA, NEC REFERENCE, NOTES/CALCULATIONS. Includes rows for LIGHTING, RECEPTACLES, HVAC, WATER HEATER, and POOL EQUIPMENT.

THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.

PANEL SCHEDULES 2



GROUNDING DETAIL-NO SCALE 3



POWER RISER - NOT TO SCALE 4

GENERAL ELECTRICAL NOTES:

ADMINISTRATIVE:

- 1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS: PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR, FASC - FIRE ALARM SYSTEM CONTRACTOR, AHJ - AUTHORITY HAVING JURISDICTION.
2. 'PROVIDE' MEANS TO FURNISH AND INSTALL...
3. EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY NECESSARY TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS...
4. WORKMANSHIP SHALL BE IN ACCORDANCE WITH NEMA 1 'STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING'...

METHODS:

- 1. EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONTRACT.
2. ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR BREAKERS...
3. COLOR CODE CONDUCTORS PER NEC FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12...
4. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING...
5. MOUNT LIGHT SWITCHES AT 48 IN AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE...
6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE-STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESERVE OR RESTORE THE FIRE-RESISTANCE RATING...
7. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI RECEPTACLES IN KITCHENS, RESTROOMS, OUTDOORS, AND IN SHOP AREAS AS REQUIRED BY NEC...
8. LOCATIONS AND HEIGHTS OF ALL WALL-MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION...
9. CONDUIT, ALL CONDUIT EXCEPT IN MECHANICAL ROOMS OR UNFINISHED AREAS AS NOTED, USE EMT CONDUIT FOR ALL BRANCH CIRCUITS AND FEEDERS INSIDE THE BUILDING...
10. CABLES, RACEWAYS, OR BOXES, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2 IN MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX...
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
12. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
13. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
14. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
17. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
18. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
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MATERIALS:

- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC. UNDER THE ELECTRICAL BOARD AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS...
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION...
3. ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, EATON, OR GE...
4. OCCUPANCY SENSORS SHALL BE BY WATTSSTOPPER, LUTRON, LEVITON, SENSOR SWITCH, HUBBELL, OR APPROVED EQUAL...
5. CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC TYPE WITH QUICK-MAKE, QUICK-BREAK MECHANISM...
6. ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR...
7. THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED THHN/THWN OR XHHW...
8. ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR...
9. ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR...
10. CABLES, RACEWAYS, OR BOXES, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2 IN MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX...
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS...
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Table with columns: MARK, WIRE AND CONDUIT, AMPS. Includes rows for 1 - 3-0 CU, 1 - #6 CU GRD., 2" CONDUIT 200 and 2 - 3-#1 CU, 1 - #6 CU GRD., 2" CONDUIT 125.

Right margin area containing project information: PROJECT NO: 240602, E1, and logos for Kilian Engineering, Inc. and North Carolina Professional Engineer Seal.

Classified by Underwriters Laboratories, Inc. to ASTM/UL1479 (ASTM E814)

**System No. W-L-1088**  
 F Ratings - 1 & 2 Hr. (See Item 1)  
 T Rating - 0 Hr.

**Section A-A**

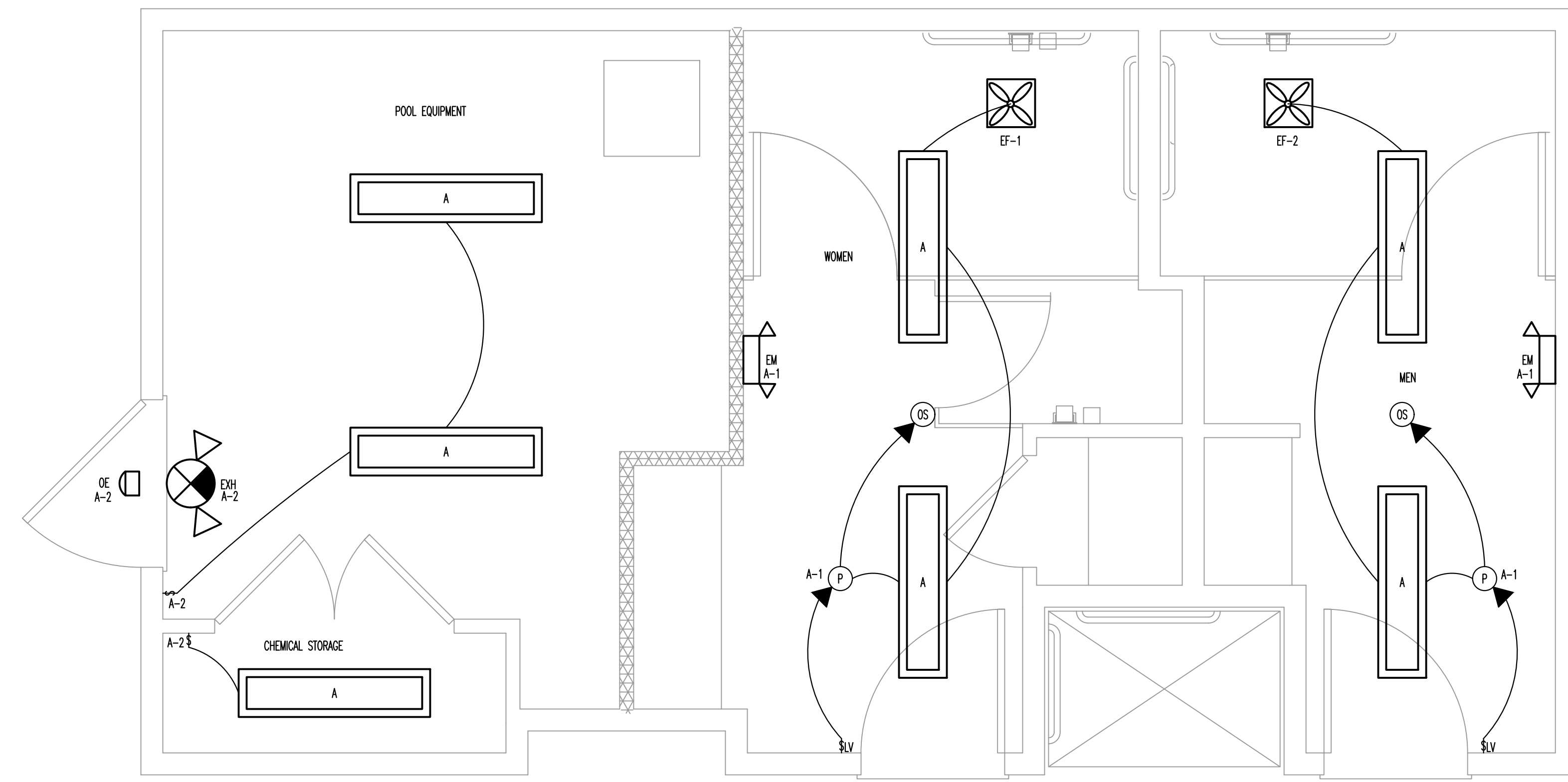
- Wall Assembly** - The 1 or 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) O.C. with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min. 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) O.C.
  - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6-3/4 in. (171 mm).  
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant** - One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, tubing or conduits and periphery of opening shall be min 0 in. (point contact) to max 5/8 in. (16 mm). Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - Steel Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe - Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
  - Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type M (or heavier) copper tubing.
  - Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
  - Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 4 in. (102 mm) diam (or smaller) galv steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material within annulus, flush with both surfaces of wall. Additional fill material installed such that a min 1/4 in. (6 mm) thick crown is formed around the penetrating item lapping 1/2 in. (13 mm) beyond the periphery of the opening.  
 SPECIFIED TECHNOLOGIES INC - SpecSeal LC 150 Sealant, SpecSeal LE600 Sealant  
 \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876  
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 Created or Revised: June 08, 2007

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UL W-L-1088  
 PAGE 1 OF 1

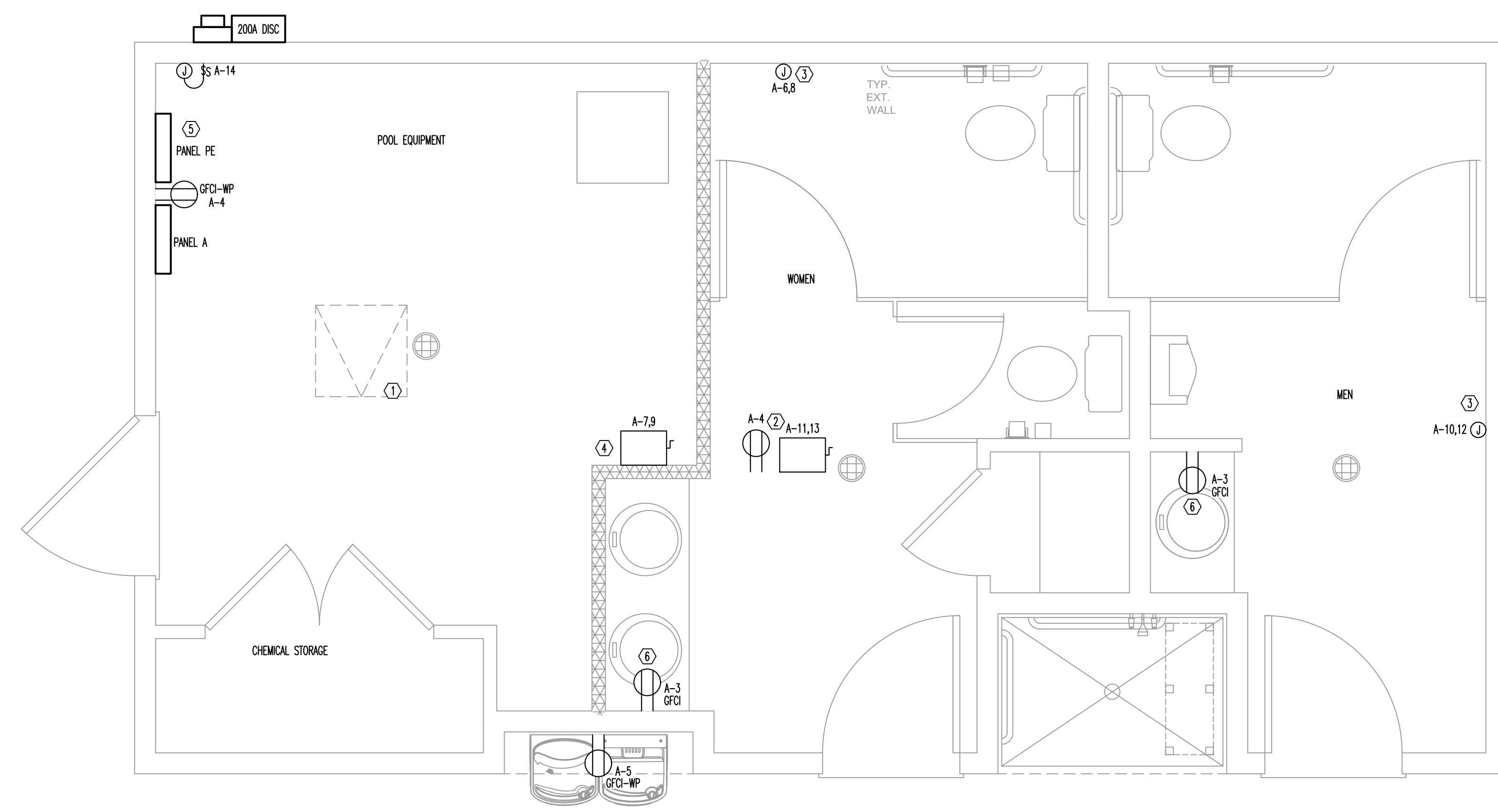
1 HOUR FIRE PENETRATION DETAIL 1



LIGHTING PLAN - SCALE: 1/2" = 1' 2

**POWER PLAN HEX NOTES**

- POOL EQUIPMENT ROOM PANEL AND POWER CONNECTIONS PROVIDED BY POOL CONTRACTOR.
- 30A, 240V, NEMA 1 DISCONNECT AND GFCI SERVICE RECEPT IN ATTIC FOR WH-1
- JUNCTION BOX IN WALL FOR RESTROOM HEATER. EC TO VERIFY MOUNTING HEIGHT WITH DEVICE REQUIREMENTS
- 30A, 240V, NEMA 4X DISCONNECT FOR UH-1 IN POOL EQUIPMENT ROOM. EC TO VERIFY MOUNTING HEIGHT PRIOR TO INSTALLATION.
- PANEL PE PROVIDED BY POOL CONTRACTORS TO BE INSTALLED FOR POOL EQUIPMENT.
- RECEPT TO BE MOUNTED AT COUNTER HEIGHT



POWER PLAN - SCALE: 1/2" = 1' 3

**Kilian Engineering, Inc.**  
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PROFESSIONAL SEAL  
 10/28/2024

PROFESSIONAL SEAL  
 10/28/2024

CONSTRUCTION  
 LILLINGTON, NC

CAPE OVERLOOK POOL HOUSE

REVISION:

ISSUED:

DRAWN BY: BSL  
 CHECKED BY: MWM/REW  
 LIGHTING AND POWER PLAN

SHEET NO. **E2**

PROJECT NO: 240602