



TECHNICAL REVIEW COMMITTEE (TRC)

Town of Angier, North Carolina
Planning Department
55 N. Broad Street West / PO Box 278, Angier, NC 27501
Phone: (919) 331-6702 / Fax: (919) 639-6130

Development Name:

Phase (If applicable):

Development Type:

- | | |
|---|--|
| <input type="checkbox"/> Major Subdivision Preliminary Plat | <input checked="" type="checkbox"/> Commercial Site Plan |
| <input type="checkbox"/> Major Subdivision Final Plat | <input type="checkbox"/> Multi-Family Site Plan |
| <input type="checkbox"/> Minor Subdivision Plat | <input type="checkbox"/> Partial Site Plan / Site Revision |
| <input type="checkbox"/> Planned Development (PUD) | |

Planning Staff only

File Number:

Applicant Information

1101 Slater Rd.

Owner of Record:

Name: DRB Group North Carolina, LLC
Address: 1101 Slater Rd.
City/State/Zip: Durham, N.C. 27703
E-mail: Jashaugh@DRBgroup.com
Phone: 919-796-5956
Fax: _____
Mobile: 919-796-5956

Developer:

Name: DRB Group North Carolina, LLC
Address: 1101 Slater Rd.
City/State/Zip: Durham, N.C. 27703
E-mail: Jashaugh@DRBgroup.com
Phone: 919-796-5956
Fax: _____
Mobile: 919-796-5956

Representative:

Name: Bass, Nixon & Kennedy, Inc.
Address: 6310 Chapel Hill Rd Ste. 250
City/State/Zip: Raleigh, N.C. 27607
E-mail: Robbie.Bell@BNKInc.com
Phone: 919-851-4422
Fax: 919-851-8968
Mobile: _____

Engineer/Surveyor:

Name: Kirby R. Bell Jr.
Address: 6310 Chapel Hill Rd Ste. 250
City/State/Zip: Raleigh, N.C. 27607
E-mail: Robbie.Bell@BNKInc.com
Phone: 919-851-4422
Fax: 919-851-8968
Mobile: _____

Property Description

PIN(s): _____ Acres: _____

Deed Book:	Page:
Current Zoning:	
<input type="checkbox"/> Open Space & Recreation (OSR)	
<input type="checkbox"/> RA-30	
<input type="checkbox"/> R-15	
<input type="checkbox"/> R-10	
<input checked="" type="checkbox"/> R-6	
<input type="checkbox"/> Office & Institutional (O&I)	
<input type="checkbox"/> Central Business (CB)	
<input type="checkbox"/> General Commercial (GC)	
<input type="checkbox"/> Commerce Park (CP)	
<input type="checkbox"/> Conditional Zoning :	
Future Land Use:	
<input type="checkbox"/> Open Space & Recreation (OSR)	
<input type="checkbox"/> Low Density Residential (LDR)	
<input type="checkbox"/> Medium Density Residential (MDR)	
<input type="checkbox"/> High Density Residential (HDR)	
<input type="checkbox"/> Residential Mixed Use (RMU)	
<input type="checkbox"/> Office Institutional (O&I)	
<input type="checkbox"/> Commercial Mixed Use (CMU)	
<input type="checkbox"/> Central Business (CB)	
<input type="checkbox"/> Commercial (COM)	
<input type="checkbox"/> Light Industrial (LI)	

Environmental Description

Does this site contain any perennial, intermittent streams or rivers? ☐ Yes ☒ No

Stream name(s): _____

Does this site contain any Flood Zone areas? ☐ Yes ☒ No

If YES, approximate acreage: _____ Acres

Does this site lie within a Watershed? ☐ Yes ☒ No

If applicable, what is the total amount of impervious surfaces? _____

Were any wetlands observed on the site? ☐ Yes ☒ No

Unique Features (Cemeteries, etc...): _____

Adjoining Agricultural Uses:

- ☐ Cattle
- ☐ Crops (Nursery or Row Crops)
- ☐ Equestrian
- ☐ Hog
- ☐ Poultry
- ☐ Voluntary Agricultural District
- ☐ Other: _____

Project Description

SINGLE FAMILY SUBDIVISIONS

- ☐ Site Built
- ☐ Modular Homes
- ☐ Doublewide Manufactured Homes

COMMERCIAL/MULTIFAMILY

- ☐ Masonry Structure
- ☐ Aluminum Structure
- ☒ Frame Structure
- ☐ Single Story Structure
- ☐ Multiple Story Structure

Total number of lots/units: 1

Total acreage of proposed open space: _____

0.9094 acres

COMMERCIAL DEVELOPMENTS

Business Type/Description: Pool and pool house

Hours & Days of Operation: _____

Hazardous Materials on Site: _____

Utilities Impact

Water: ☒ Public
☐ Private (Well)

Sewer: ☒ Public
☐ Private (Septic System)

Electrical: ☐ Above Ground
☒ Underground

Distance (in feet) to nearest water line: 20 ft.

Distance (in feet) to nearest sewer line: 30 ft.

Distance (in feet) to the nearest fire hydrant: 30 ft. to pool house

Final Plats: _____

Have all Town of Angier Public Works requirements been completed? ☐ Yes ☐ No } In process

Have inspections been completed by Public Works and Fire Marshal? ☐ Yes ☐ No

Traffic Analysis Impact

Has a Traffic Impact Analysis (TIP) been required by NC DOT for this development? ☐ Yes ☒ No

Please list any anticipated circulation improvements that will accompany the development: _____

Characteristics of road(s) within development:

☐ Private Roads ☒ Town of Angier ☐ NC DOT

Have you received Street Name Pre-Approval? ☒ Yes ☐ No

Commercial/Multifamily:

Total Number of Proposed Parking Spaces: 8 spaces

Parking Area Surface Material: Asphalt

Attachments (Must be submitted with application)

	MAJOR SUB. PRELIMINARY PLAT	MAJOR SUB. FINAL PLAT	MINOR SUB. PLAT	COMMERCIAL SITE PLAN	MULTIFAMILY SITE PLAN	PARTIAL SITE PLAN
PLEASE PROVIDE 3 PAPER COPIES OF:						
Master Plan (Planned Developments)	•	•				
Plat Of Survey	•	•	•	•	•	•
As-Built Drawings		•	•	•	•	•
PLEASE PROVIDE 1 COPY OF: All items are required if applicable						
Street Name Pre-Approval Letter		•	•		•	
Preliminary Soils Report	•		•			
HOA/POA Documents & Restrict Covenants		•	•	•	•	
Land Use Application				•	•	•
Final Soils Report		•				
Traffic Impact Analysis (if required)	•			•		
Stormwater Management Permit & Plan		•	•	•	•	•
Erosion Control Plan		•	•	•	•	•

Item	Fee	Subtotal	Total Due
PLANNED DEVELOPMENT MASTER PLAN			
Master Plan Review Fee	\$300.00		
Additional Per Unit Fee	\$1.00		
MAJOR SUBDIVISION PRELIMINARY PLAT			
Plat Review Fee	\$300.00		
Additional Per Lot Fee	\$5.00		
MAJOR SUBDIVISION FINAL PLAT			
Planning Review Fee	\$200.00		
MINOR SUBDIVISION PLAT			
Planning Review Fee	\$200.00		
COMMERCIAL SITE PLAN			
Site Plan Review Fee	\$400.00	500.00	500.00
Partial/Revised Site Plan Review Fee	\$100.00		
Construction Review Fee	\$400.00		
Storm Drainage Review Fee	\$350.00		
Land Use Application Fee	\$35.00		

Signatures

The undersigned applicant hereby certifies that, to the best of his or her knowledge and belief, all information supplied with this application is true and accurate:


Property Owner Signature

7-16-25
Date


Authorized Agent Signature

7/16/25
Date

This document must be signed by the property owner and/or the authorized agent, or a letter of authorization must be provided. All questions provided herein must be addressed to prevent the application from being considered incomplete. All documents required must be submitted. If any of these items are not addressed the TRC will not review the application.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT TOWN OF ANGIER STANDARDS AND SPECIFICATIONS

SYMBOLS AND ABBREVIATIONS

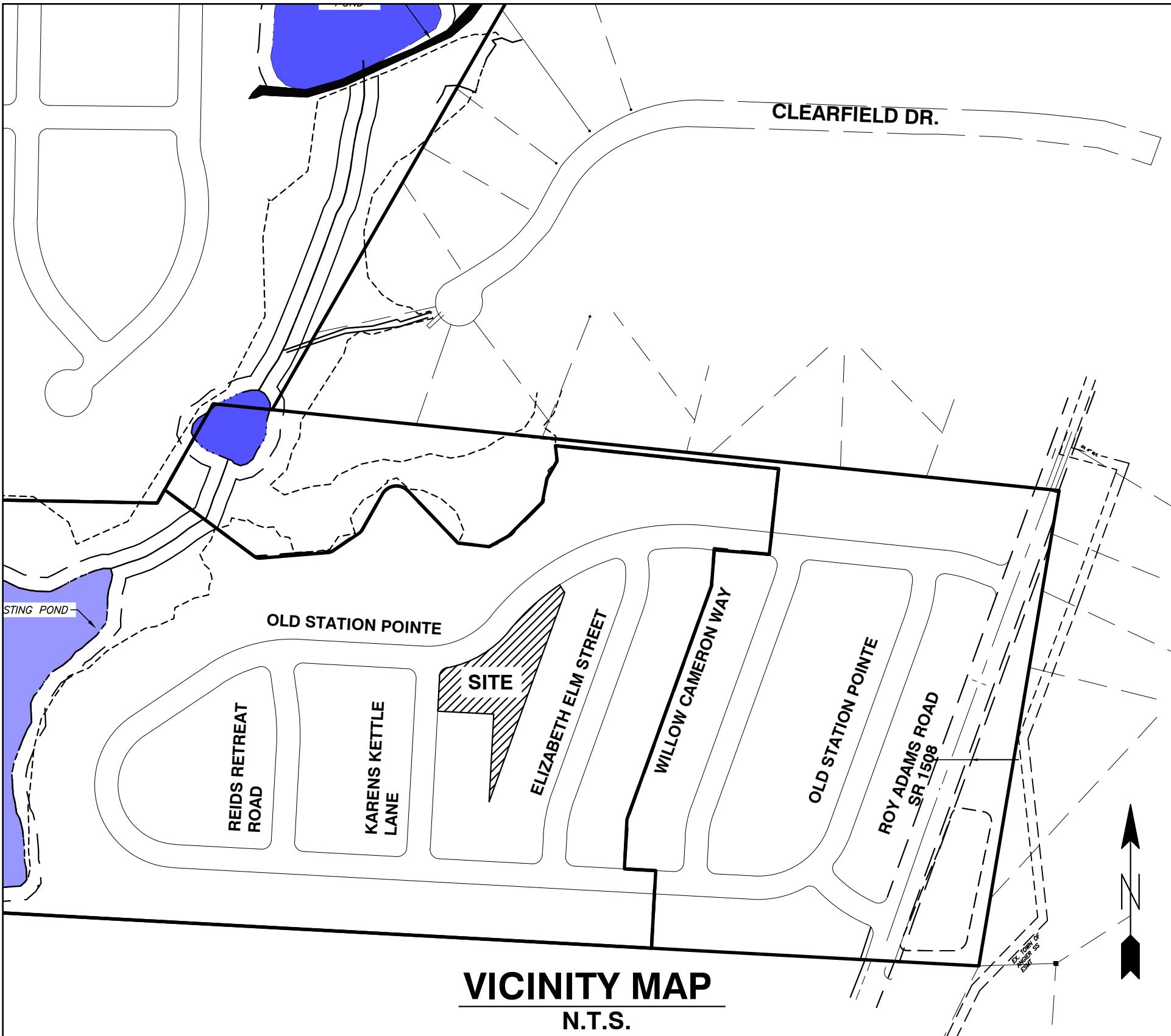
ABC	AGGREGATE BASE COURSE		EXISTING CURB INLET
ALUM	ALUMINUM		EXISTING GRATE INLET/YARD INLET
AST2	ALUMINIZED STEEL – TYPE 2		EXISTING FLARED END SECTION
B-B	BACK TO BACK		EXISTING FIRE HYDRANT
BOA	BLOW-OFF ASSEMBLY		EXISTING BLOW-OFF ASSEMBLY
C&G	CURB AND GUTTER		EXISTING GATE VALVE
CFS	CUBIC FEET PER SECOND		EXISTING REDUCER
CI	CURB INLET		EXISTING WATER METER
CL	CENTER LINE		EXISTING SAN SEWER MANHOLE
CMP	CORRUGATED METAL PIPE		EXISTING CLEAN OUT
CO	CLEAN OUT		EXISTING POWER POLE
COM	COMMUNICATION		EXISTING TELEPHONE PEDESTAL
CONC	CONCRETE		EXISTING AREA LIGHT
DCV	DOUBLE CHECK VALVE		EXISTING SIGN
DDCV	DOUBLE DETECTOR CHECK VALVE		NEW CURB INLET
DI	DROP INLET		NEW GRATE INLET/YARD INLET
DIP	DUCTILE IRON PIPE		NEW FLARED END SECTION
EASE	EASEMENT		NEW FIRE HYDRANT
ELEC	ELECTRIC		NEW BLOW-OFF ASSEMBLY
EX	EXISTING		NEW GATE VALVE
FES	FLARED END SECTION		NEW REDUCER
FH	FIRE HYDRANT		NEW WATER METER
FM	FORCE MAIN		NEW TEE
FT	FEET		NEW PLUG
FT/SEC	FEET PER SEC		NEW MANHOLE
GALV	GALVANIZED		NEW CLEAN OUT
GV	GATE VALVE		NEW SIGN
HDPE	HIGH DENSITY POLYETHYLENE		IRON PIPE
L	LENGTH		BENCHMARK
LF	LINEAR FEET		TEMP SILT FENCE
MH	MANHOLE		TEMP TREE PROTECTION FENCE
PAVE	PAVEMENT		TEMP COMBINATION SILT/TREE PROTECTION FENCE
PE	FINISHED PAD ELEVATION		TEMP DIVERSION DITCH
PP	POWER POLE		DISTURBED LIMITS
PVC	POLYVINYL CHLORIDE		STREAM
R	RADIUS		EXISTING GAS LINE
R/W	RIGHT-OF-WAY		EXISTING COMMUNICATIONS LINE
RED	REDUCER		EXISTING UNDERGROUND TELEPHONE
RCP	REINFORCED CONCRETE PIPE		EXISTING UNDERGROUND ELECTRIC
RPZ	REDUCED PRESSURE ZONE		EXISTING OVERHEAD ELECTRIC
SS	SANITARY SEWER		EXISTING WATER LINE
STA	STATION		EXISTING SANITARY SEWER FORCE MAIN
TDD	TEMPORARY DIVERSION DITCH		EXISTING SANITARY SEWER
TELE	TELEPHONE		EXISTING STORM DRAINAGE
TSB	TEMPORARY SEDIMENT BASIN		NEW STORM DRAINAGE
UG	UNDERGROUND		NEW WATER LINE
WCR	WHEELCHAIR RAMP		NEW SANITARY SEWER
W/L	WATER LINE		NEW SANITARY SEWER FORCE MAIN
WM	WATER METER		NEW GAS MAIN
YI	YARD INLET		HANDICAPPED ACCESSIBLE ROUTE

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ANGIER

STATION POINTE SUBDIVISION
AMENITY

TOWN OF ANGIER, HARNETT COUNTY, NORTH CAROLINA

TOWN OF ANGIER PROJECT NO.



VICINITY MAP
N.T.S.

SHEET INDEX

	COVER
C1.0	AMENITY AREA - EXISTING CONDITIONS PLAN
C1.1	AMENITY AREA - SITE PLAN
C2.1	AMENITY AREA - UTILITY / GRADING / EC PLAN
C5.1	DETAILS
C5.2	DETAILS
L1.1	AMENITY AREA - LANDSCAPE PLAN
	STATION POINTE POOL HOUSE PLANS

OWNER:

DRB GROUP - NC, LLC
1101 SLATER ROAD, STE 300
DURHAM, NC 27703-5427

CONTACT: J. ADAM ASHBAUGH,
DIR OF LAND ENTITLEMENTS
PHONE: (919) 786-5956
EMAIL: jashbaugh@drbgroup.com

DEVELOPER:

DRB GROUP - NC, LLC
1101 SLATER ROAD, STE 300
DURHAM, NC 27703-5427

CONTACT: J. ADAM ASHBAUGH,
DIR OF LAND ENTITLEMENTS
PHONE: (919) 786-5956
EMAIL: jashbaugh@drbgroup.com

THESE PROPERTIES DO NOT LIE
WITHIN A FEMA FLOOD HAZARD AREA
PER FIRM NUMBER 3720066200J
DATED OCTOBER 10, 2006.

CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPALITY STANDARDS, SPECIFICATIONS, AND DETAILS. WORK IN THIS PROJECT SHALL ALSO CONFORM TO THESE PLANS, THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS, THE ROAD AND BRIDGE STANDARDS, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS, IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION.
- THE LOCATION AND SIZE OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE (ULOCOS) AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- TRAFFIC CONTROL ON PUBLIC STREETS SHALL BE IN CONFORMANCE WITH THE TRAFFIC CONTROL PLAN, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND AS FURTHER DIRECTED BY CITY AND STATE INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY ENGINEERING DIVISION.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND APPLICABLE MUNICIPALITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D698. STONE BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST AS SET OUT IN ASTM STANDARD D1557. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
- PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
- THE CONTRACTOR SHALL REVIEW, VERIFY AND COORDINATE ALL DIMENSIONS SHOWN ON PLANS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER PRIOR TO STARTING PROJECT.
- ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- ALL HANDICAP RAMPING, STRIPPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA REQUIREMENTS AND THE NORTH CAROLINA STATE BUILDING CODE, VOL. 1-C ACCESSIBILITY CODE.
- OWNER SHALL PROVIDE FENCING AND OTHER SAFETY MEASURES NECESSARY IN AND AROUND ANY PROPOSED STORMWATER MANAGEMENT MEASURES (PONDS, WETLANDS, ETC.) OBTAINING PROPER PERMITS SHALL BE THE RESPONSIBILITY OF THE OWNER.
- RETAINING WALLS EXCEEDING 30 INCHES IN HEIGHT SHALL INCLUDE FALL PROTECTION IN THE FORM OF A HANDRAIL OR FENCING ON THE HIGH SIDE OF THE RETAINING WALL.
- PROPER COMPACTION OF ALL FILL SOILS PLACED ON SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COMPACTION SHALL BE ADEQUATE TO SUPPORT THE PROPOSED USE OF AREAS IN WHICH FILL SOILS ARE PLACED. THE CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO TEST AND VERIFY THAT COMPACTION IS ADEQUATE FOR THE PROPOSED USE OF IN THE AREA OF FILL PLACEMENT.
- ALL ASPECTS OF THIS PROJECT SHALL BE IN FULL COMPLIANCE WITH CURRENT ADA STANDARDS. IF THE CONTRACTOR NOTES ANY ASPECTS OF THE PROJECT WHICH ARE NOT IN COMPLIANCE, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY FURTHER WORK BEING PERFORMED. ANY WORK PERFORMED AFTER THE CONTRACTOR NOTES SUCH A NON COMPLIANCE IS SUBJECT TO REMOVAL AND REPAIR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR OR OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT. EMBANKMENTS FOR PONDS SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF 4% OR TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE MATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL BE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.
- RETAINING WALLS SHOWN HEREIN SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER WITH EXPERIENCE DESIGNING RETAINING WALLS. AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION OF RETAINING WALLS, THE CONTRACTOR SHALL CONTACT THE OWNER'S GEOTECHNICAL ENGINEER TO SCHEDULE AND COORDINATE ALL APPROPRIATE INSPECTIONS, TESTING, AND VERIFICATION NECESSARY DURING RETAINING WALL CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS INSPECTION, TESTING AND VERIFICATION FOR THE DURATION OF RETAINING WALL CONSTRUCTION. PROPER SCHEDULING, EXECUTION, AND RECORD KEEPING FOR ALL REQUIRED INSPECTIONS, TESTING, AND VERIFICATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH RECORDS SHALL BE RETAINED AND SHALL BE PROVIDED TO THE OWNER AND BASS, NIXON & KENNEDY, INC. ALL MONITORING, TESTING, AND VERIFICATION SHALL CONFORM TO THE MOST RECENT VERSION OF THE NC BUILDING CODE CHAPTER 18, SECTION 1806 OR THE WALL DESIGN ENGINEER'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.



ENGINEER:

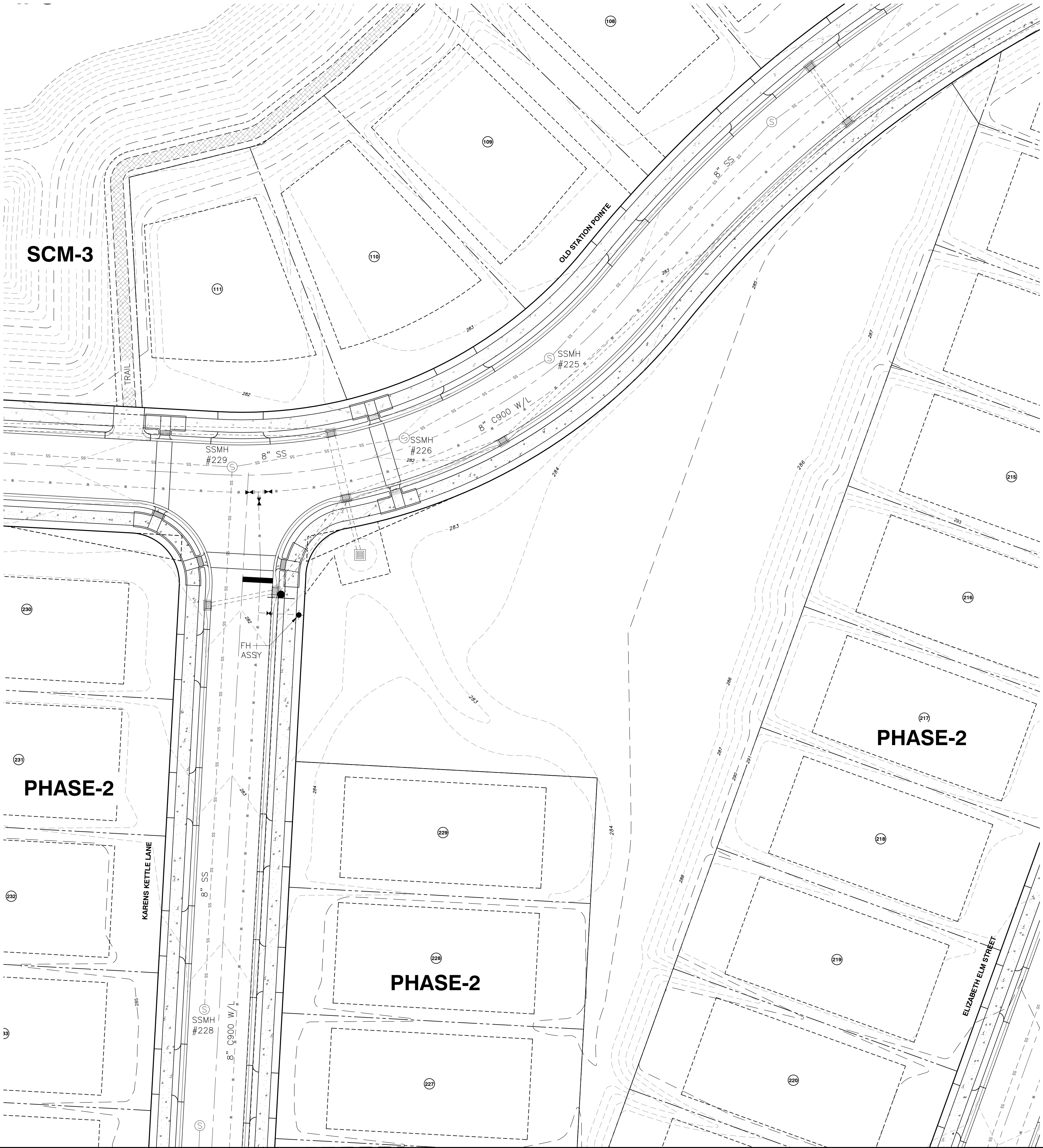
BNK
BASS | NIXON | KENNEDY
CONSULTING ENGINEERS

6310 CHAPEL HILL ROAD, SUITE 250
RALEIGH, NORTH CAROLINA 27607
TELEPHONE: (919) 851-4422
FAX: (919) 851-8968

CERTIFICATION NUMBERS: NCBELS (C-0110)
NCBOLA (C-0267)

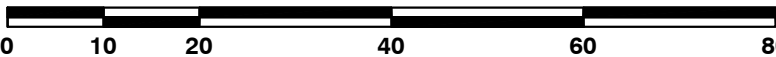

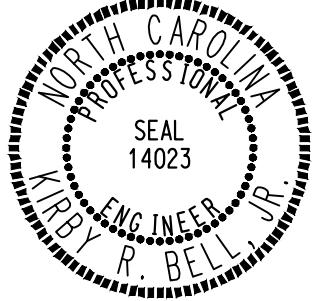
CONTACT: KIRBY R. BELL, JR., PE CPESC
EMAIL: Robbie.Bell@BNKinc.com






NOTES

1. PHASE 2 INFRASTRUCTURE CURRENTLY UNDER CONSTRUCTION.
2. EXISTING CONDITIONS SHOWN ON THIS PLAN SUBJECT TO CHANGE.





BEFORE YOU DIG!
CONTACT ONE-CALL CENTER
1-800-632-4949

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ANGIER

STATION POINTE SUBDIVISION
AMENITY

TOWN OF ANGIER, HARNETT COUNTY, NORTH CAROLINA

SHEET C1.0

PROGRESS	IP
03-22069	DATE
JOB NO.	DRAWN BY

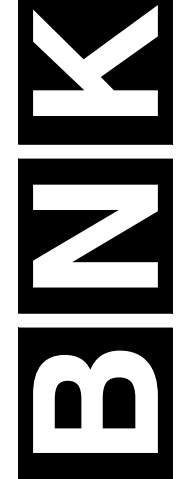
AMENITY EXISTING CONDITIONS PLAN

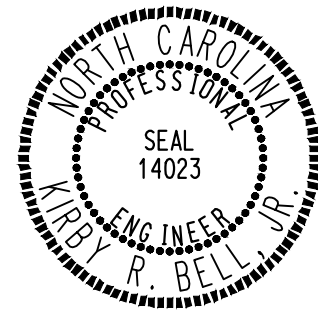
NO.	DATE	DESCRIPTION	BY

SCALE: 1" = 20'

CHK BY: KRB

BASS, NIXON & KENNEDY, INC.
CONSULTING ENGINEERS
6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607
TELEPHONE: (919) 851-4422 OR (800) 334-1879 • FAX: (919) 851-9868
CERTIFICATION NUMBERS: NCBELS (C-0110), NCBOLA (C-0267)



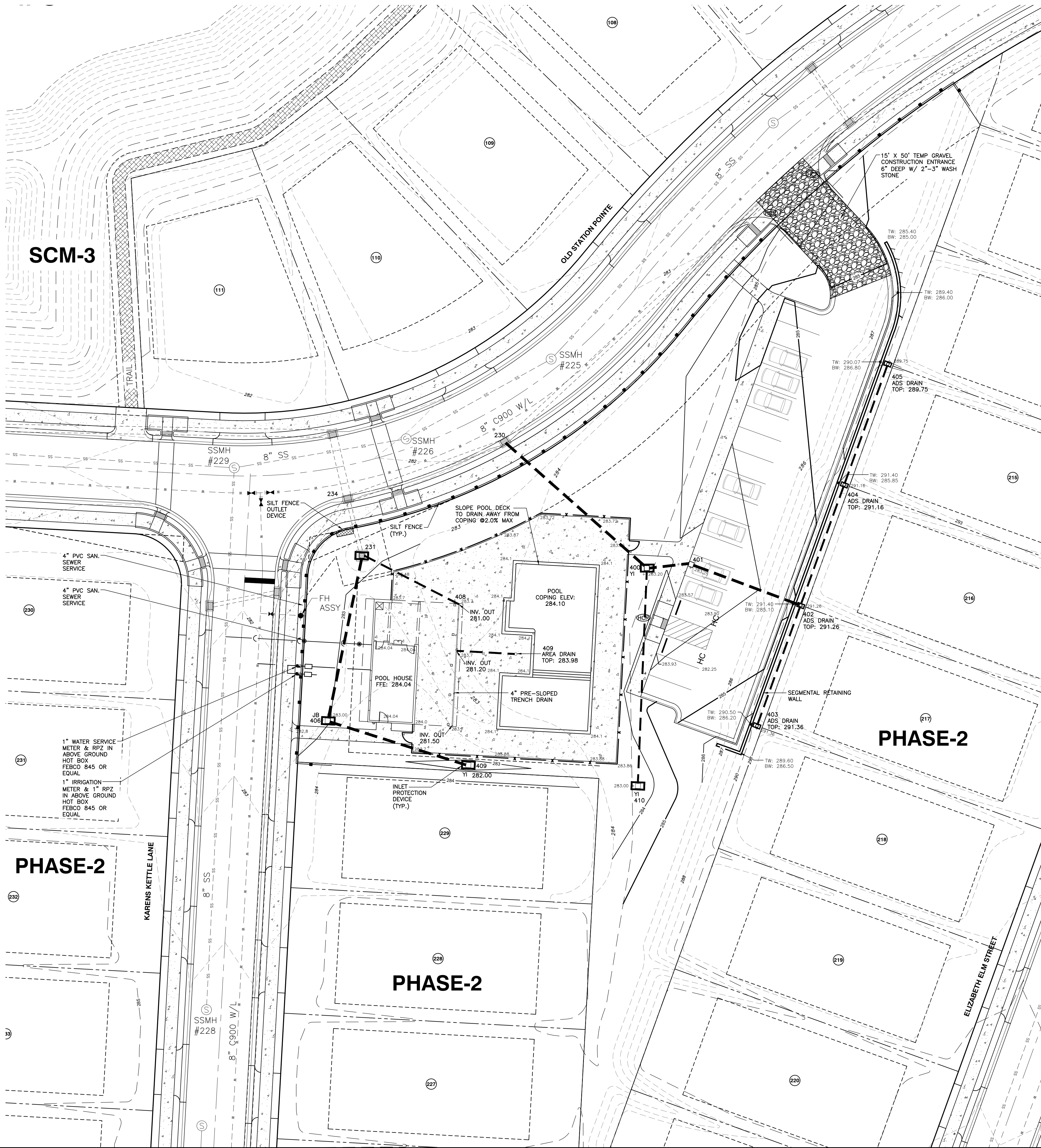


BASS, NIXON & KENNEDY, INC.
CONSULTING ENGINEERS

6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607
TELEPHONE: (919)851-4422 FAX: (919)851-8968
CERTIFICATION NUMBERS: NCBELS (C-0110); NCBOLA (C-0210)

TOWN OF ANGIER, HARNETT COUNTY, NORTH CAROLINA

SHEET
C1.1



LEGEND

INLET PROTECTION DEVICE

TEMP SILT FENCE

SILT FENCE OUTLET DEVICE

SECURITY FENCE

TEMP CONSTRUCTION ENTRANCE

NOTES

1. MAXIMUM POOL DISCHARGE RATE = 50 GAL / MIN

NOTE: ALL CONSTRUCTION ACTIVITY MUST BE IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF ANGIER

BNK

BASS, NIXON & KENNEDY, INC.
CONSULTING ENGINEERS
6310 CHAPEL HILL ROAD, SUITE 250, RALEIGH, NC 27607
TELEPHONE: (919)851-4422 OR (800)354-1879 FAX: (919)851-8968
CERTIFICATION NUMBERS: NCBELS (C-0110); NCBOLA (C-0267)

STATION POINTE SUBDIVISION
AMENITY PLAN

03-22069
JOB NO.
DATE
PROGRESS
IP
DRAWN BY
AMENITY AREA
UTILITY/ GRADING/
EC PLAN
CHK BY: KRB
SCALE: 1" = 20'

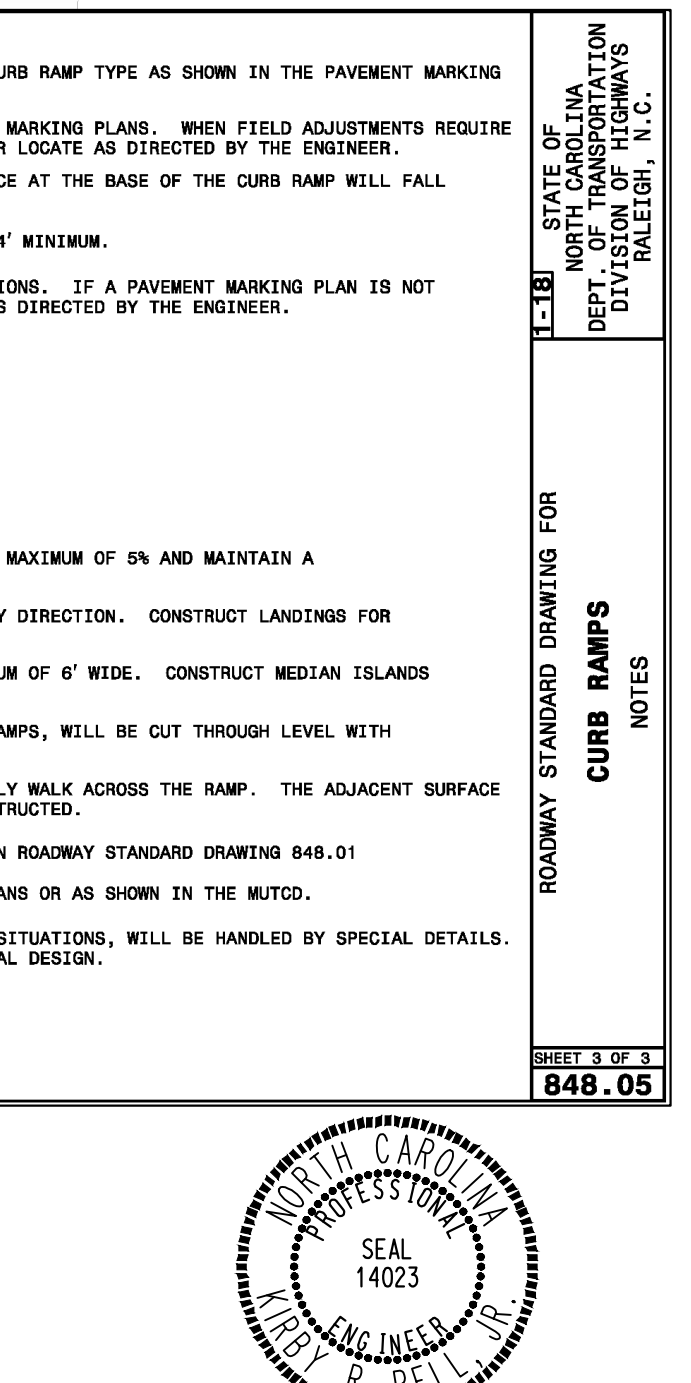
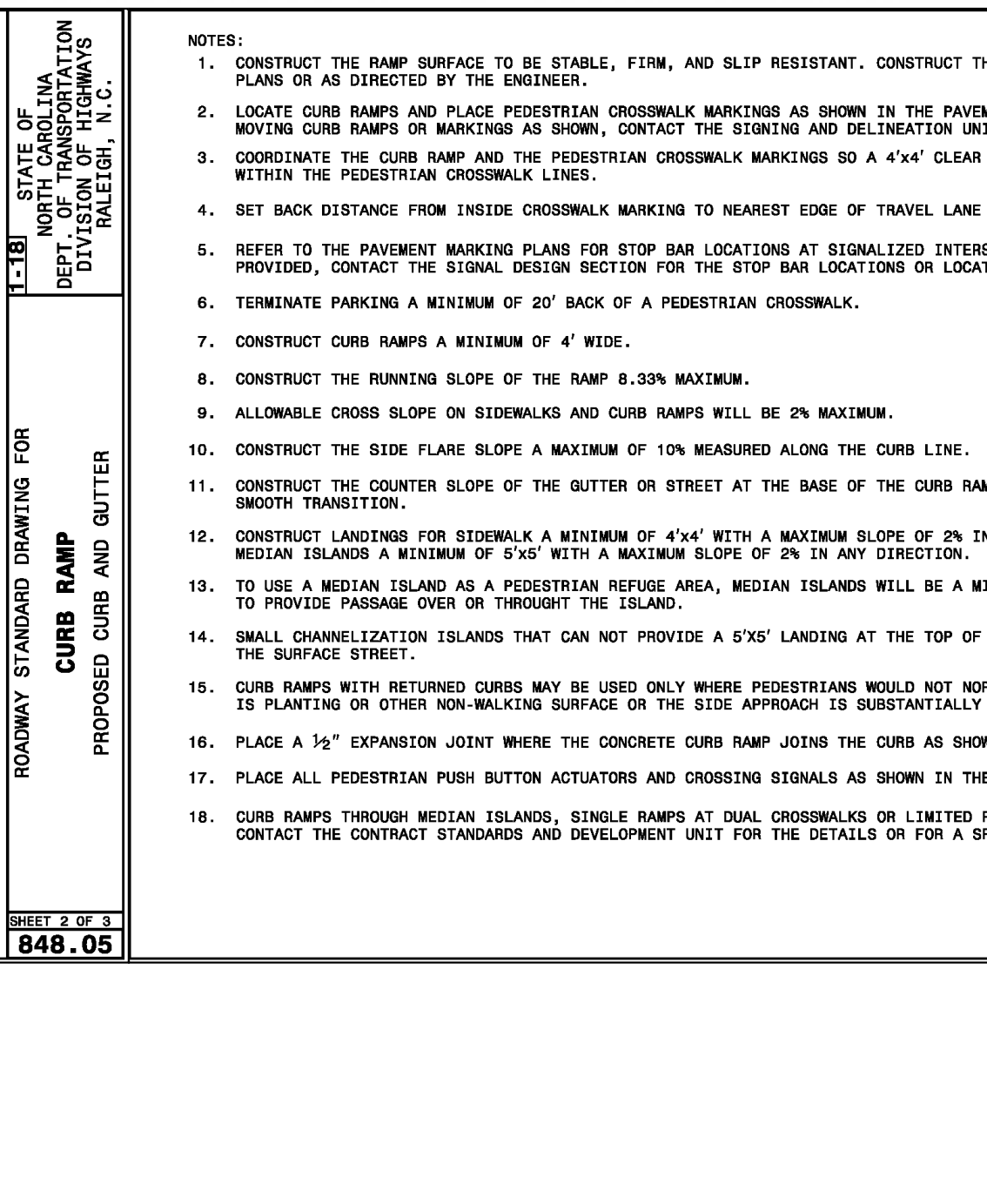
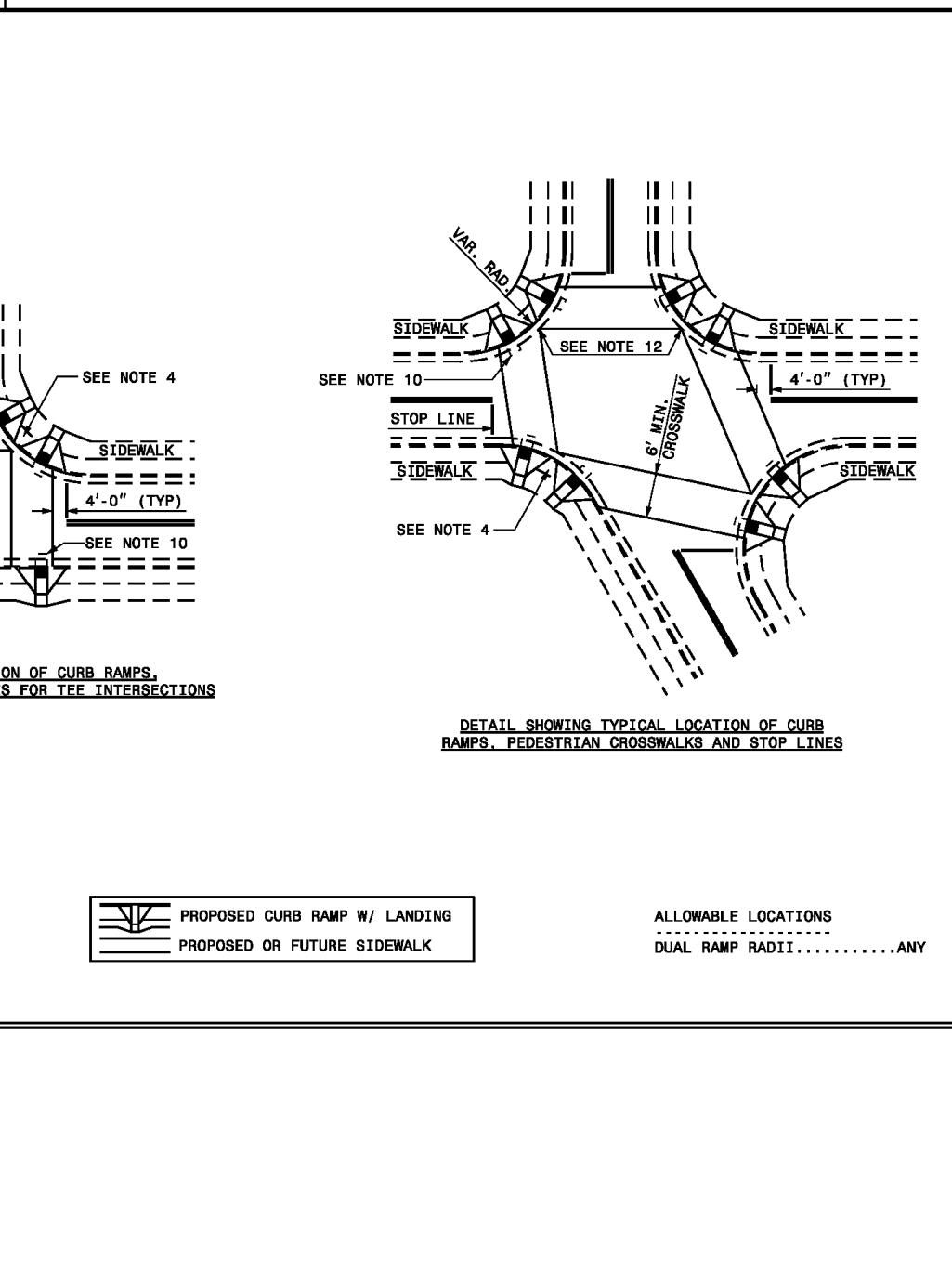
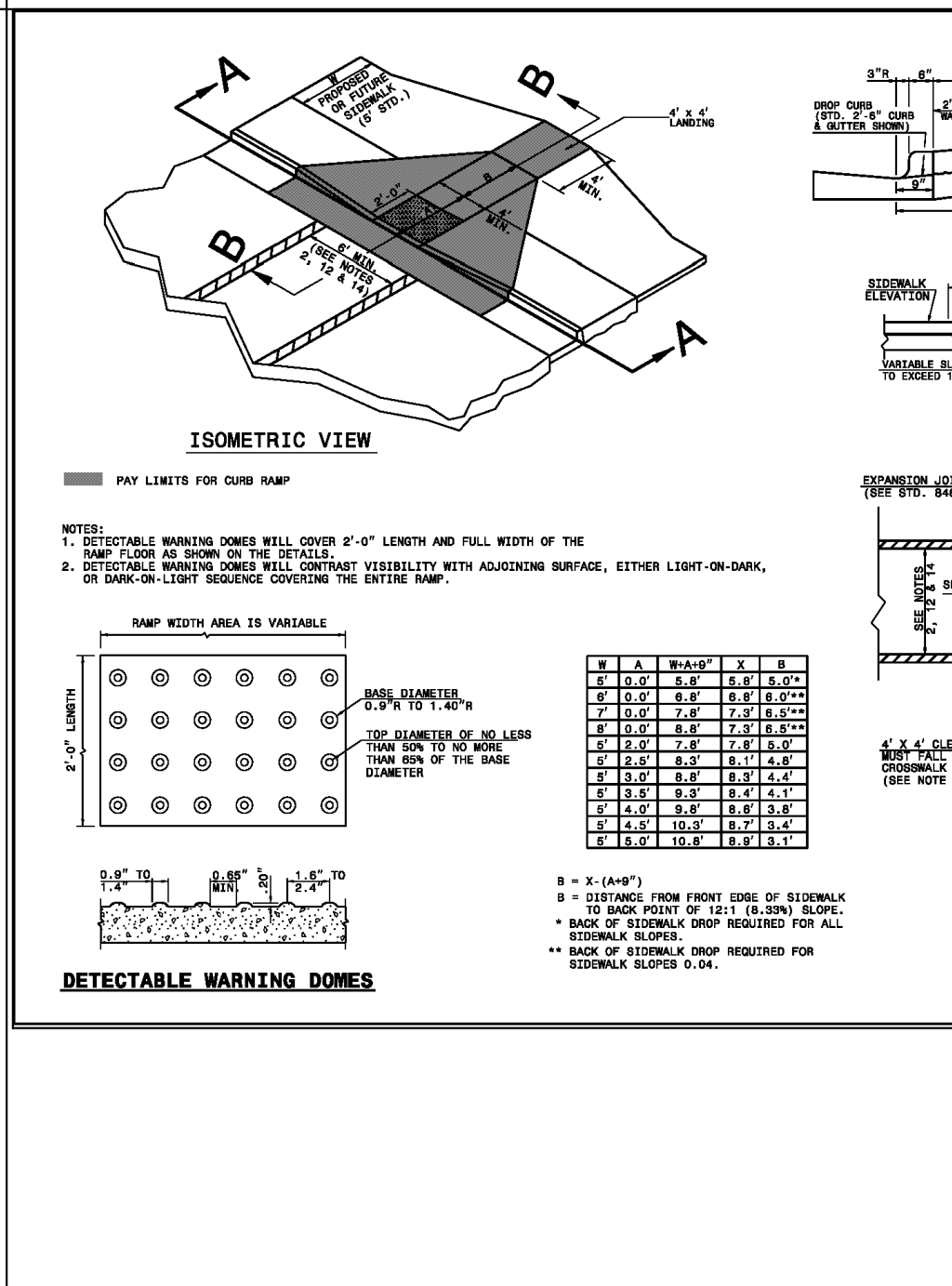
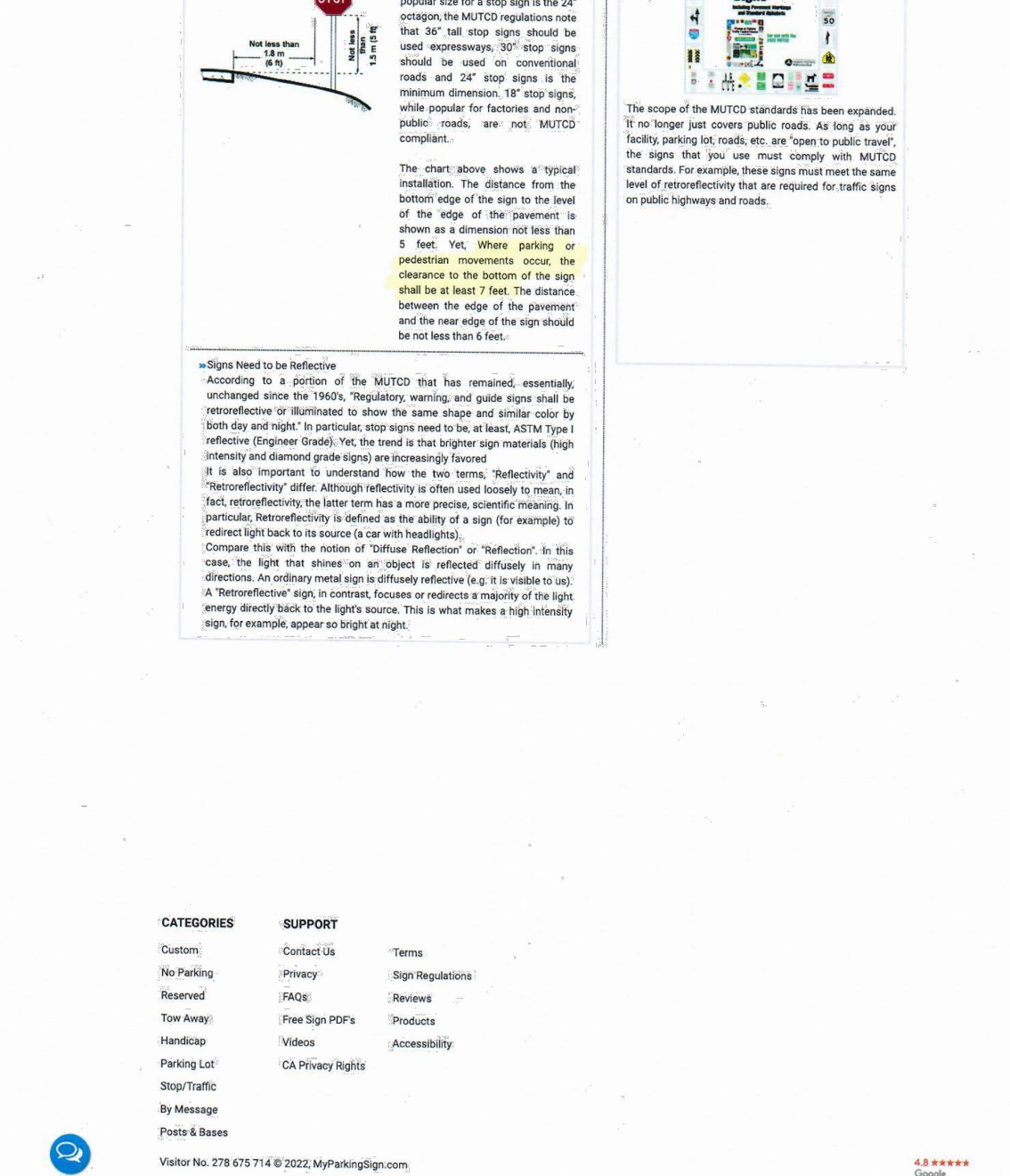
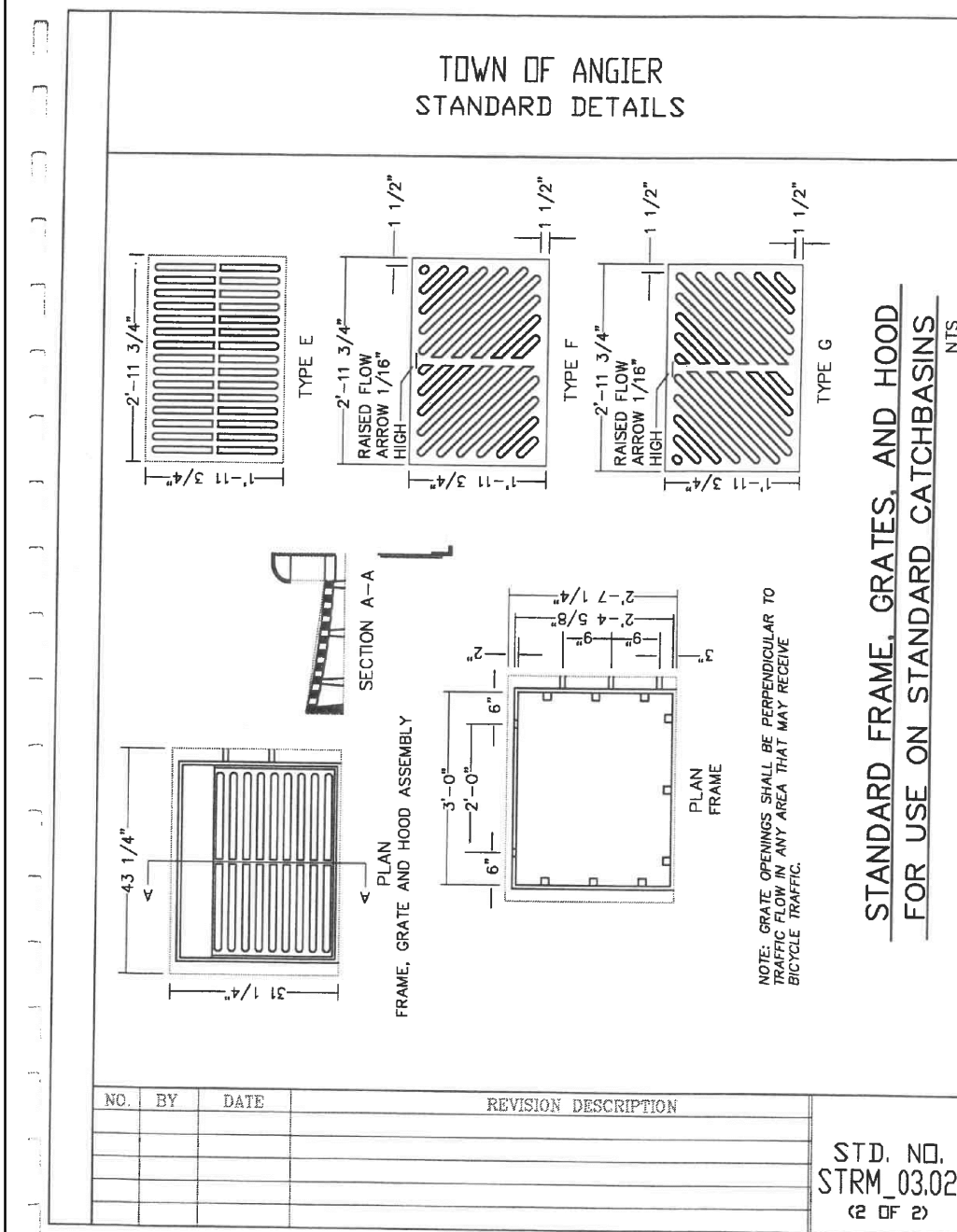
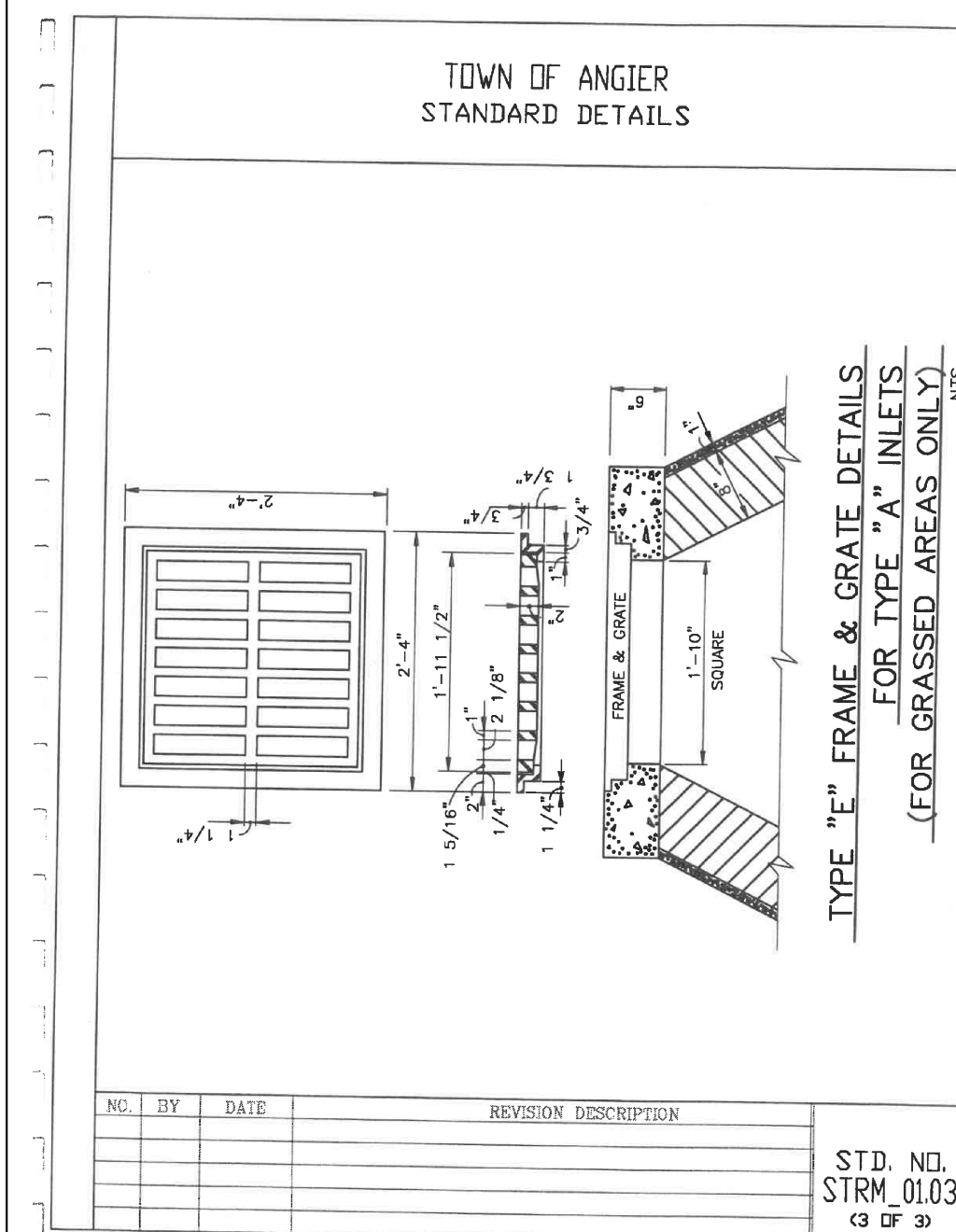
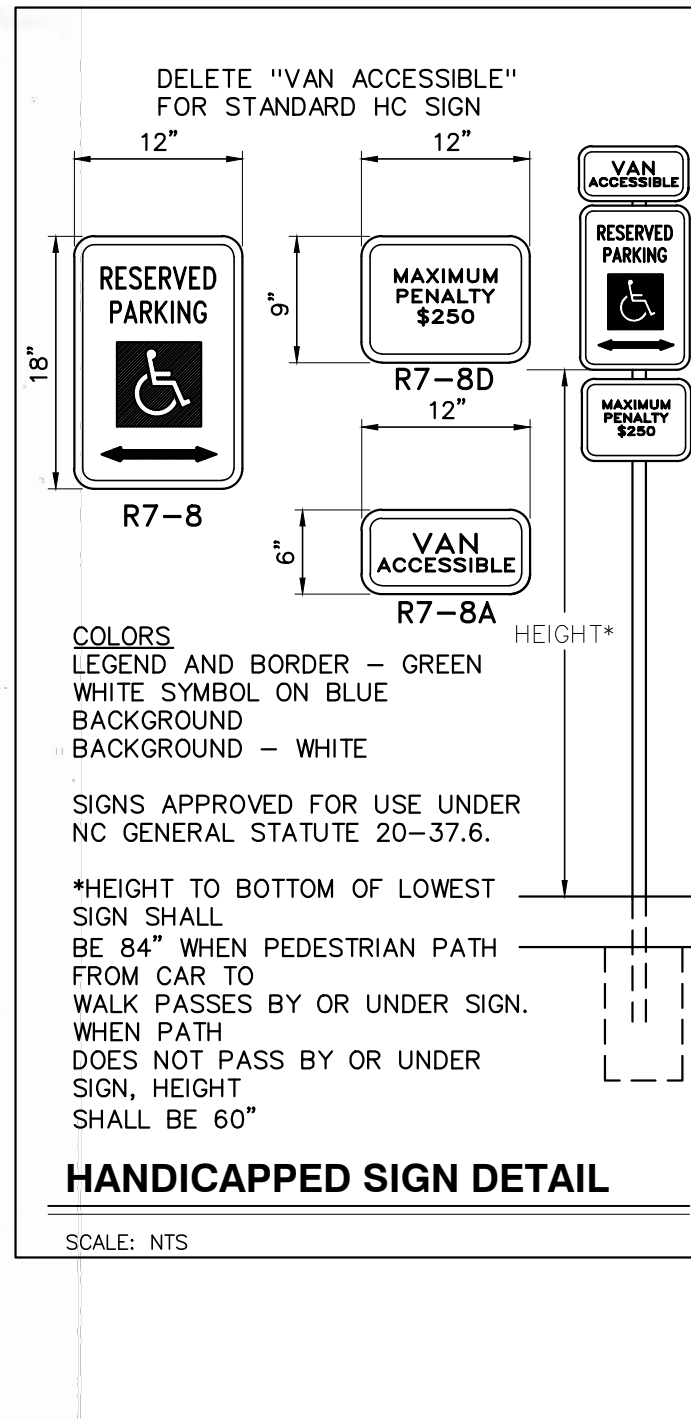
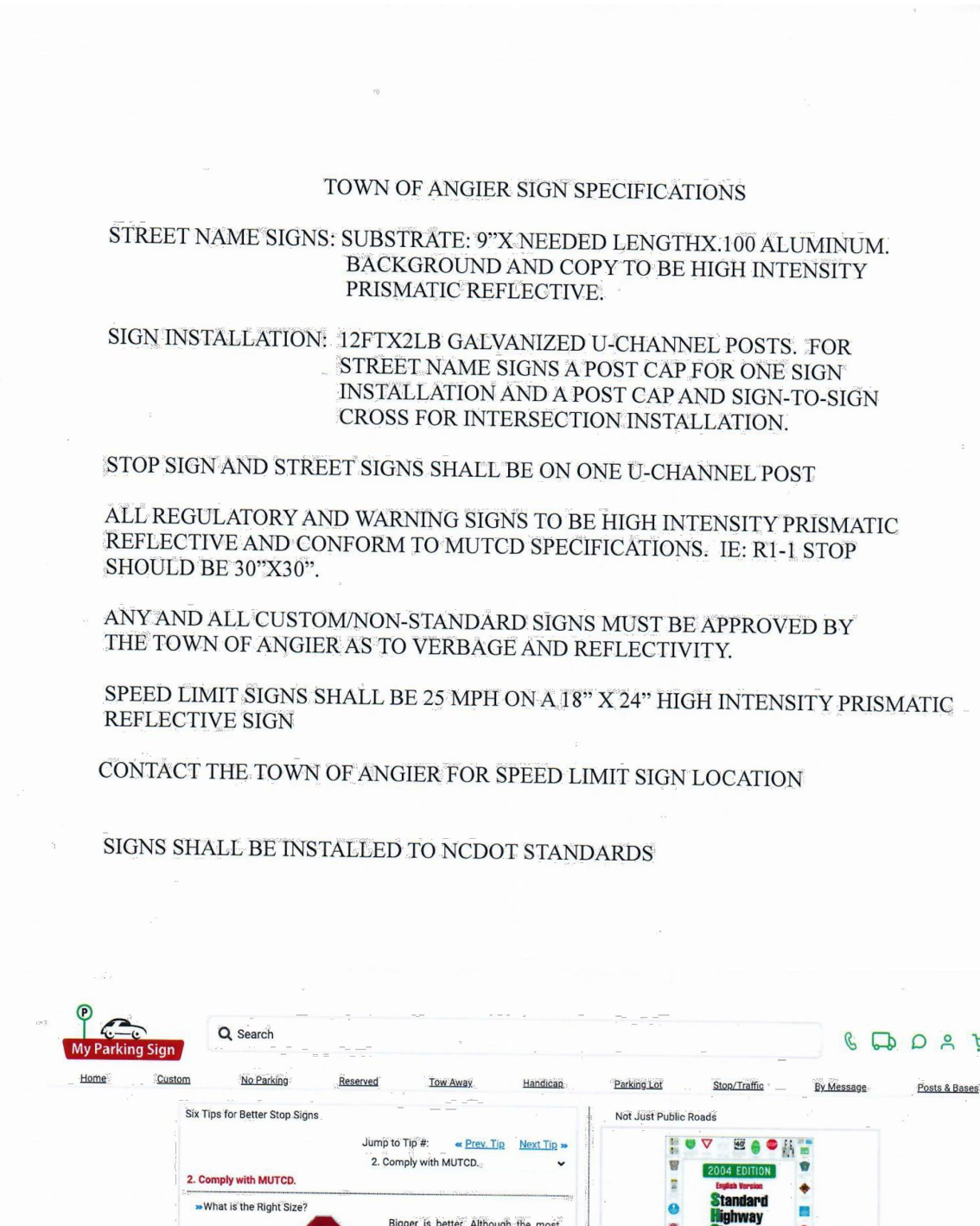
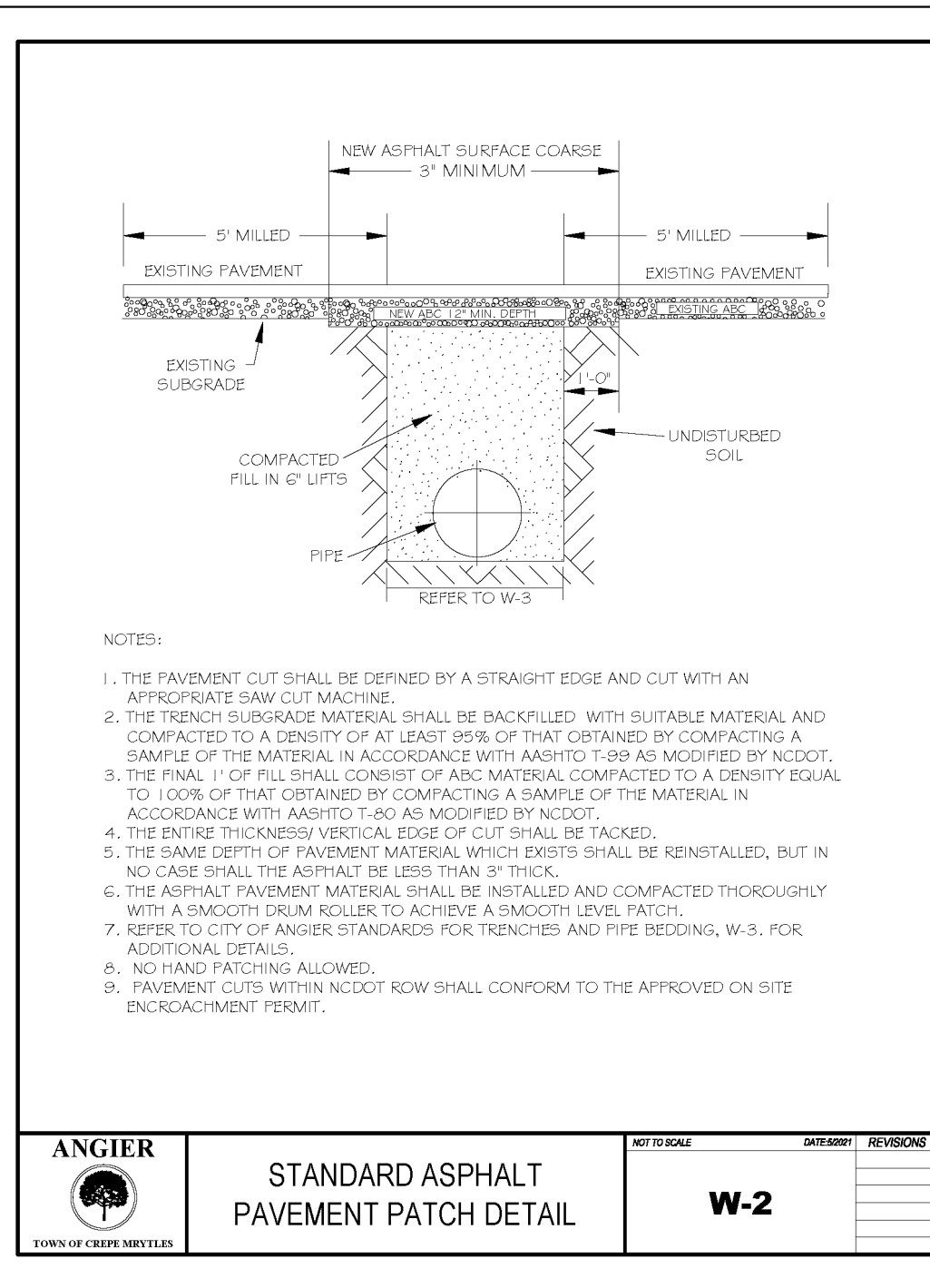
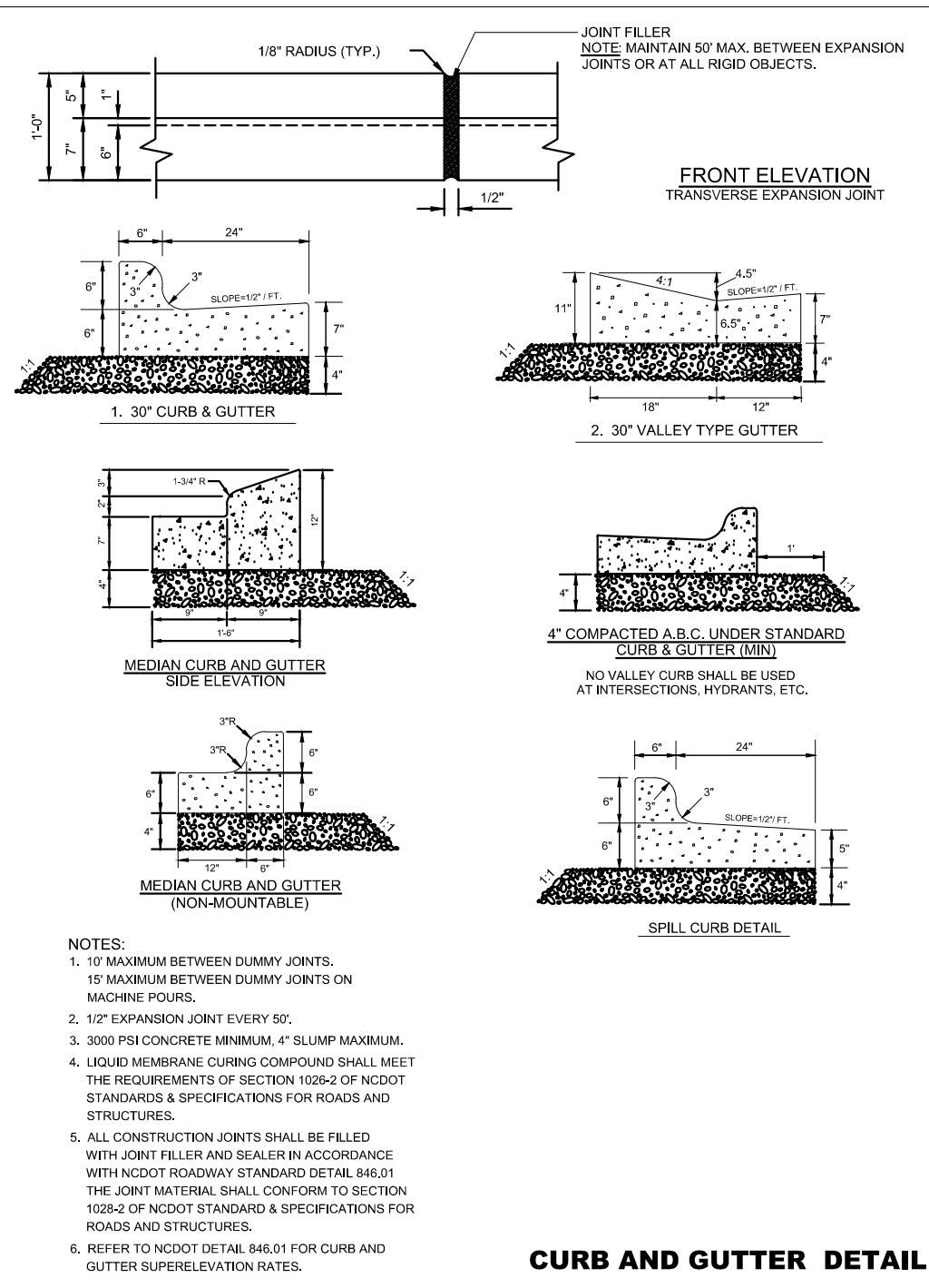
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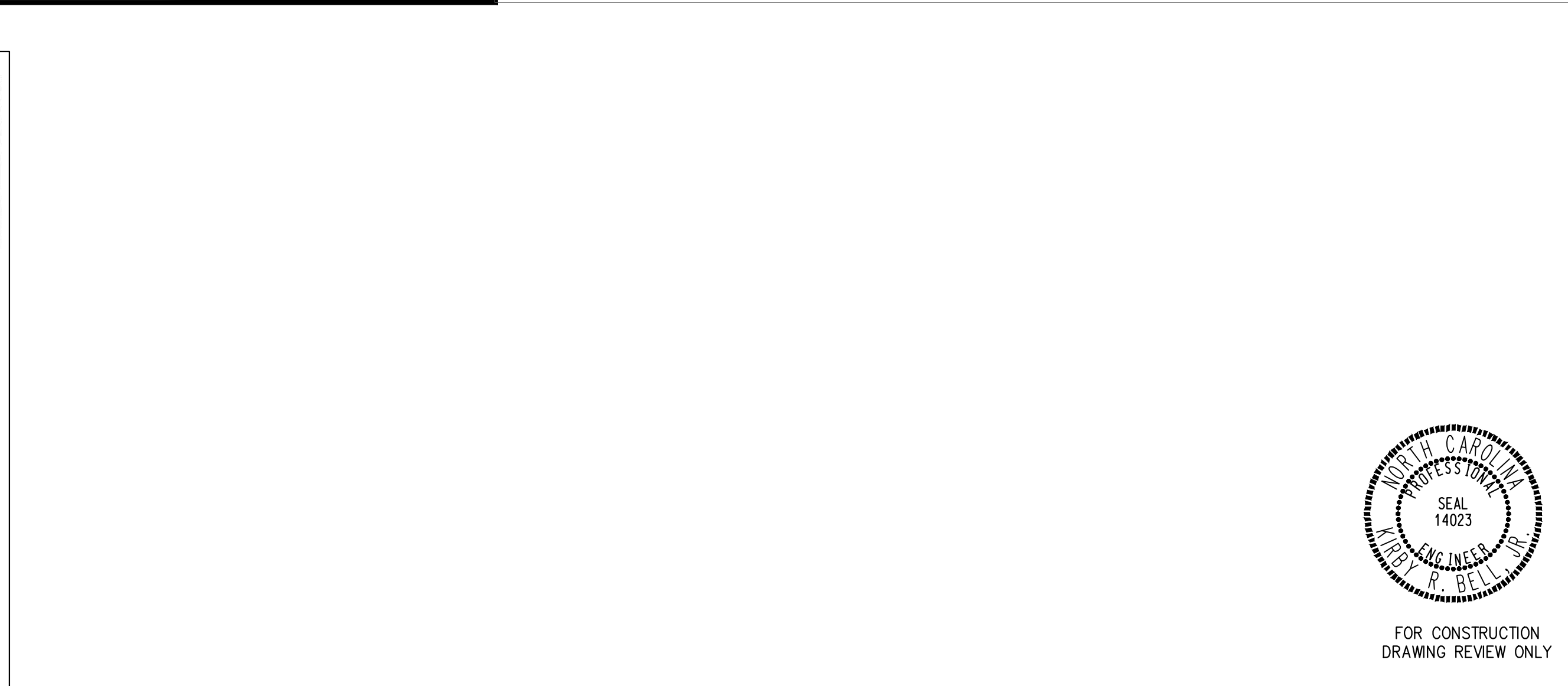
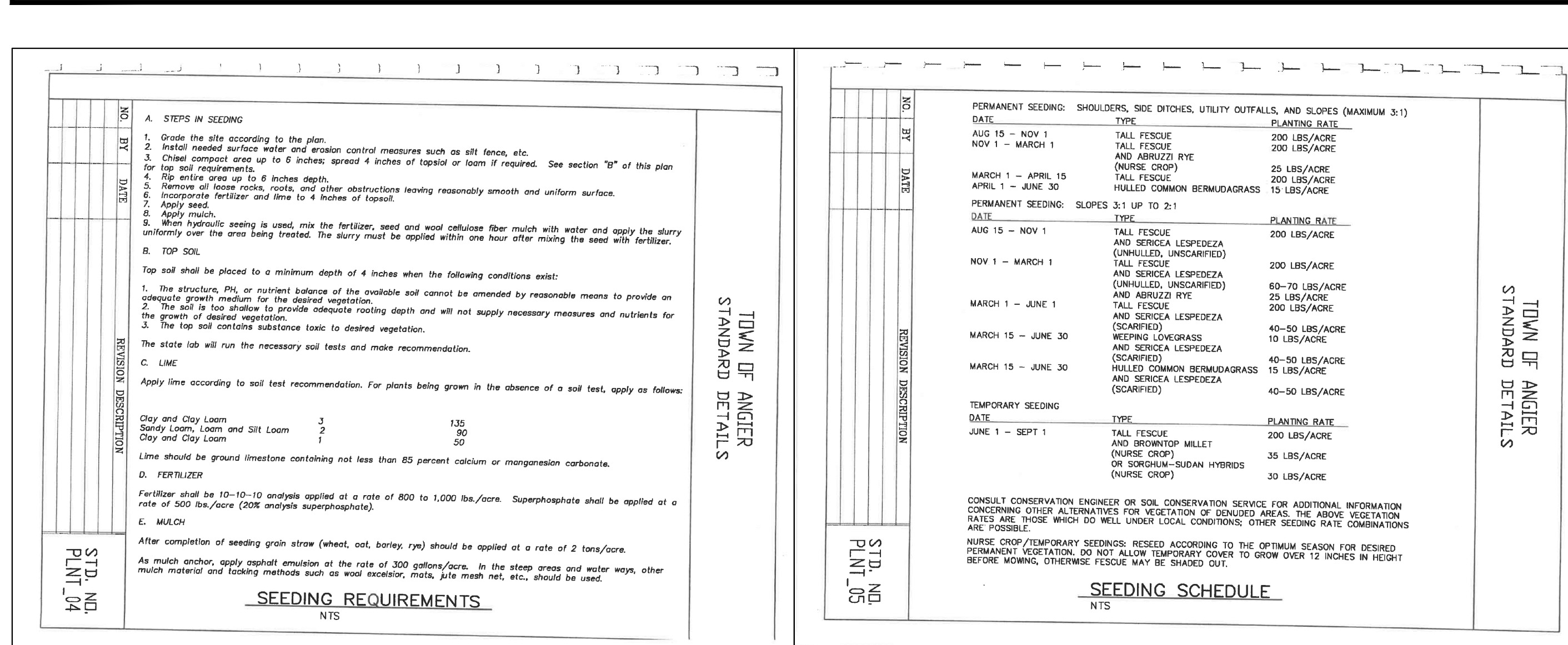
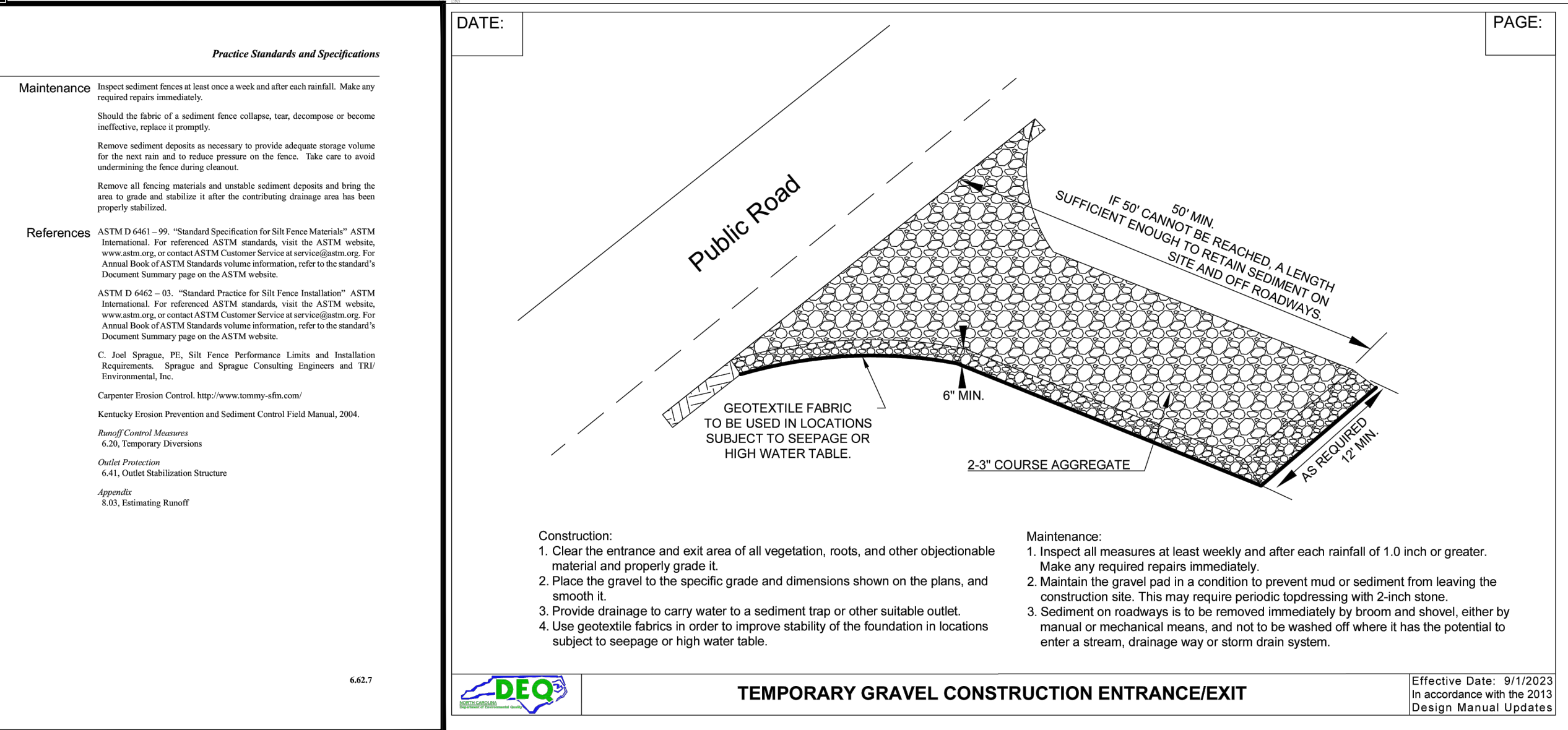
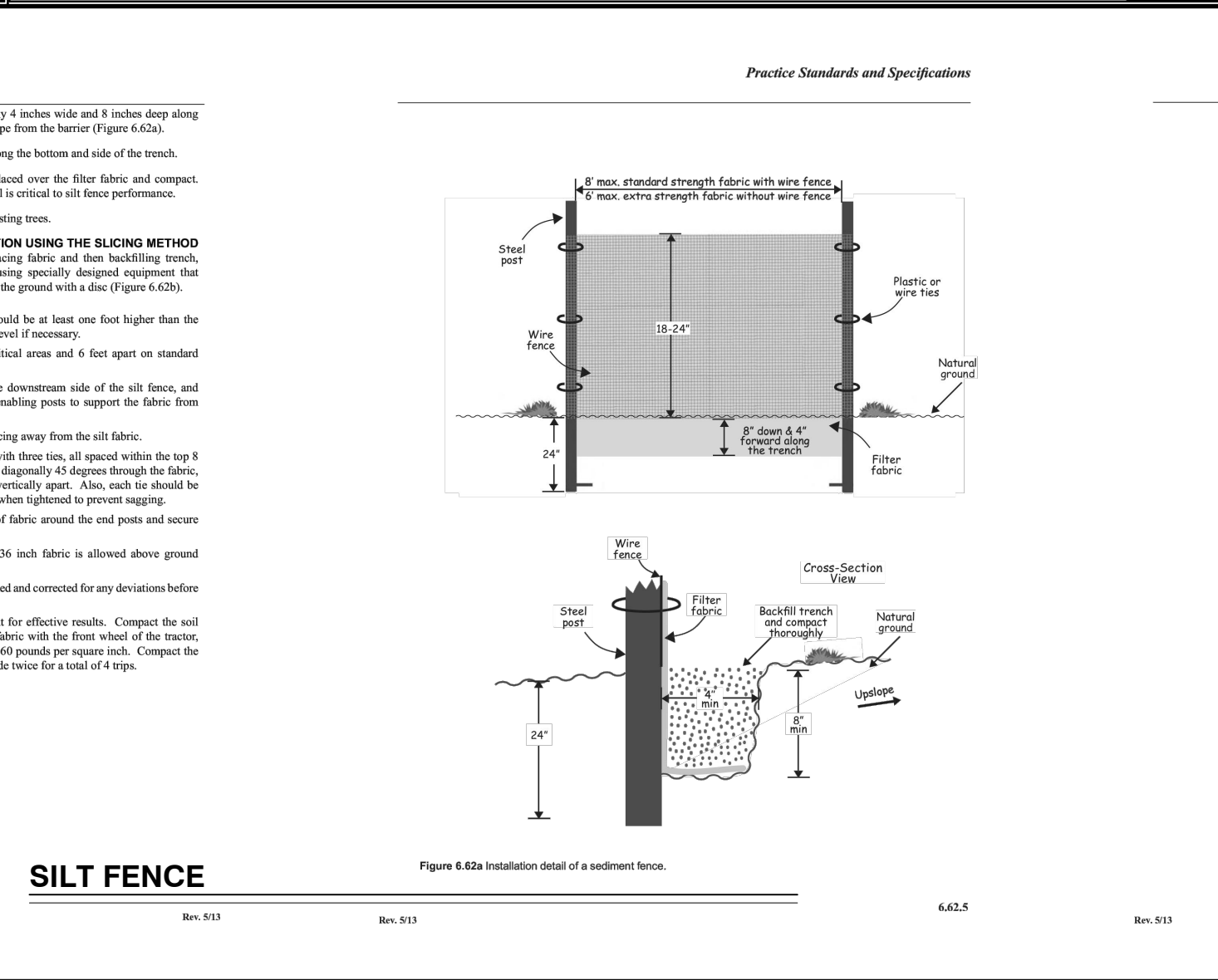
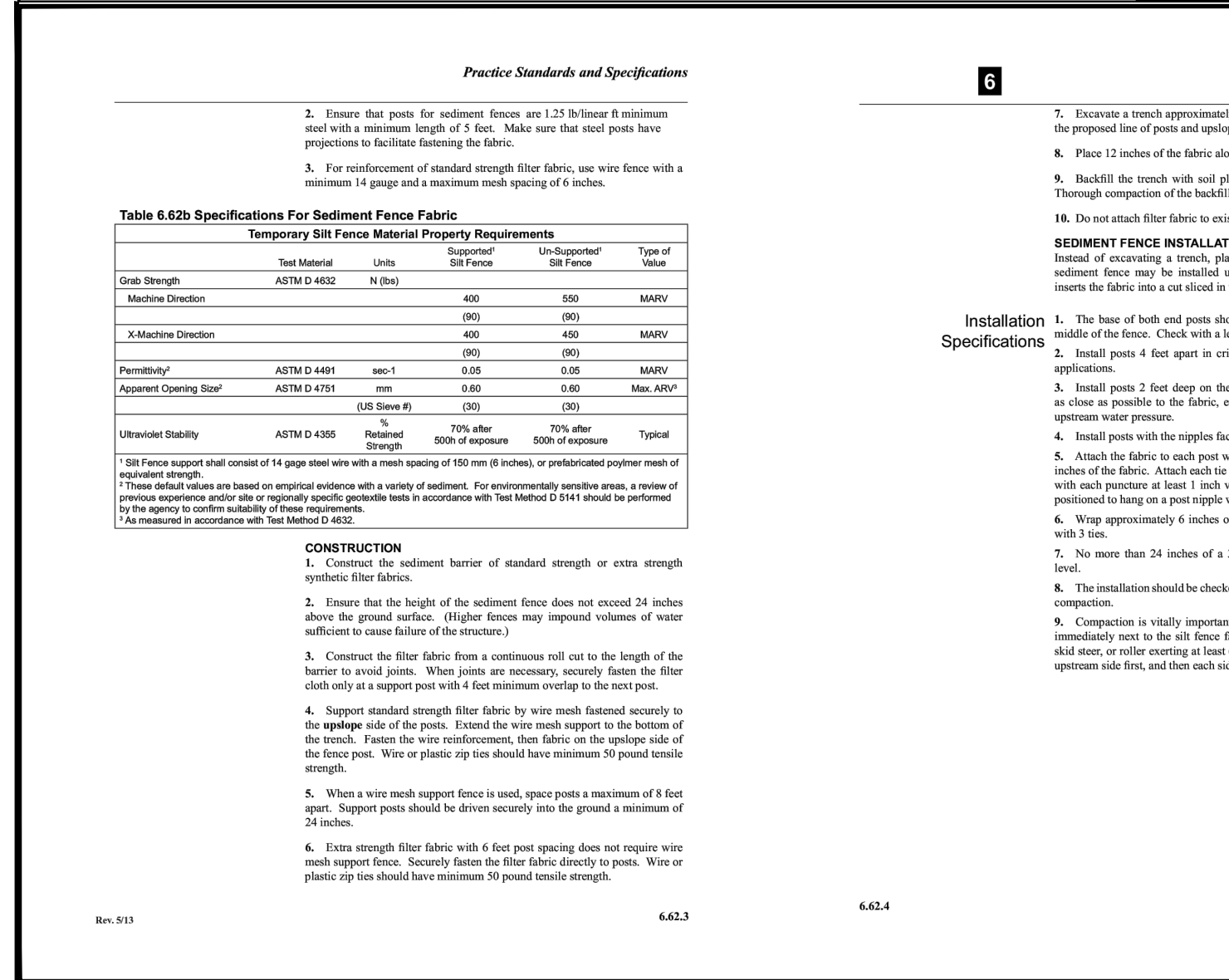
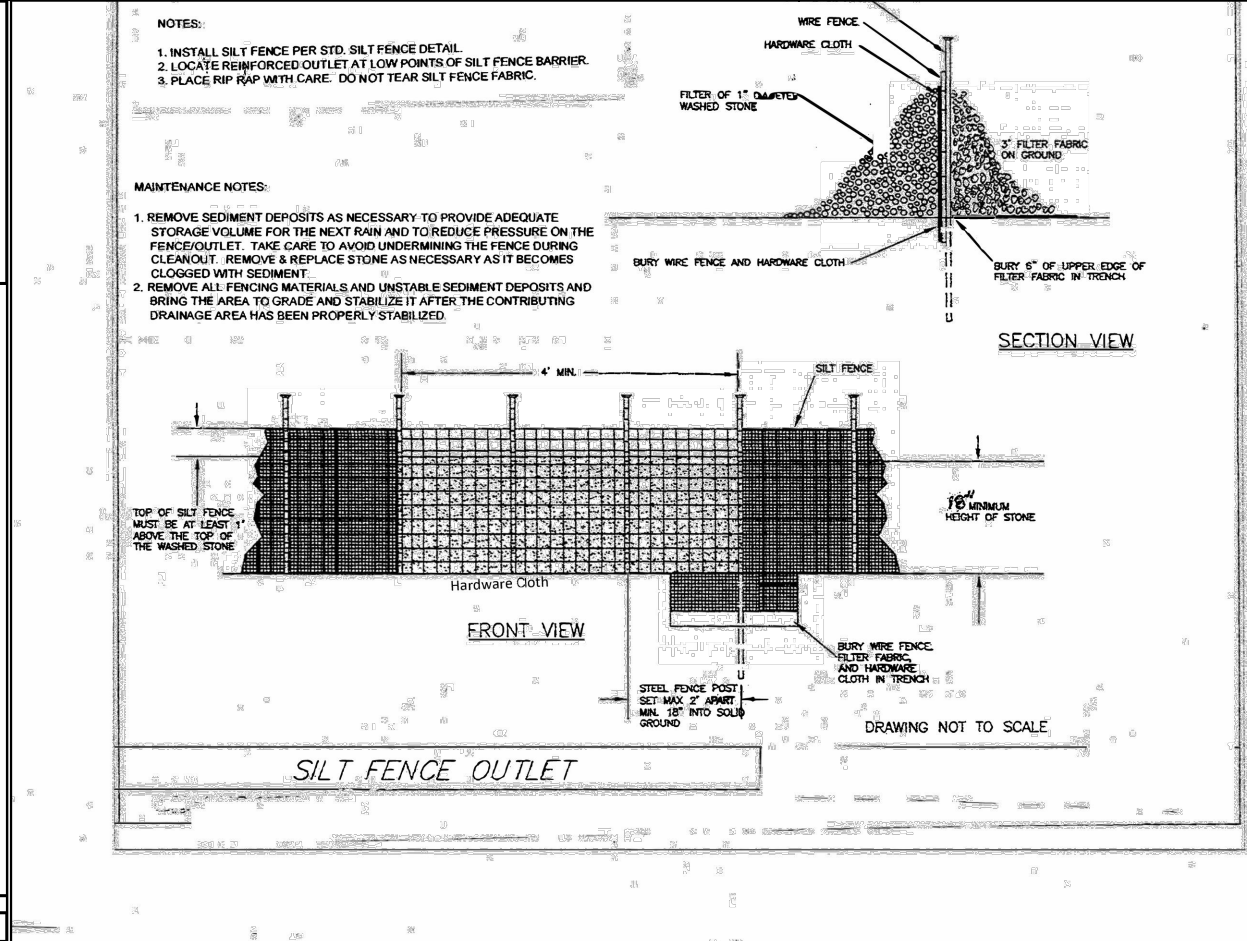
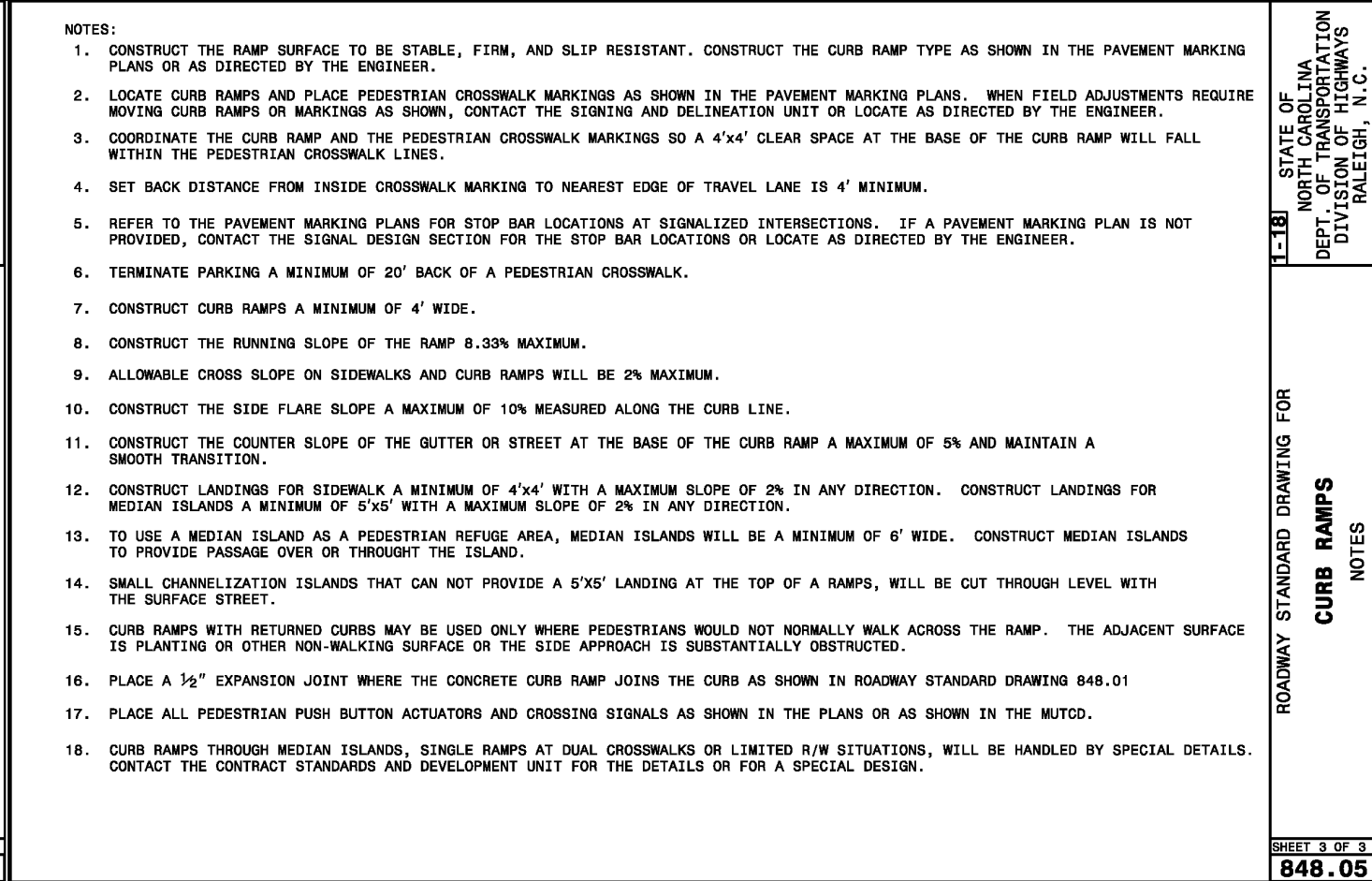
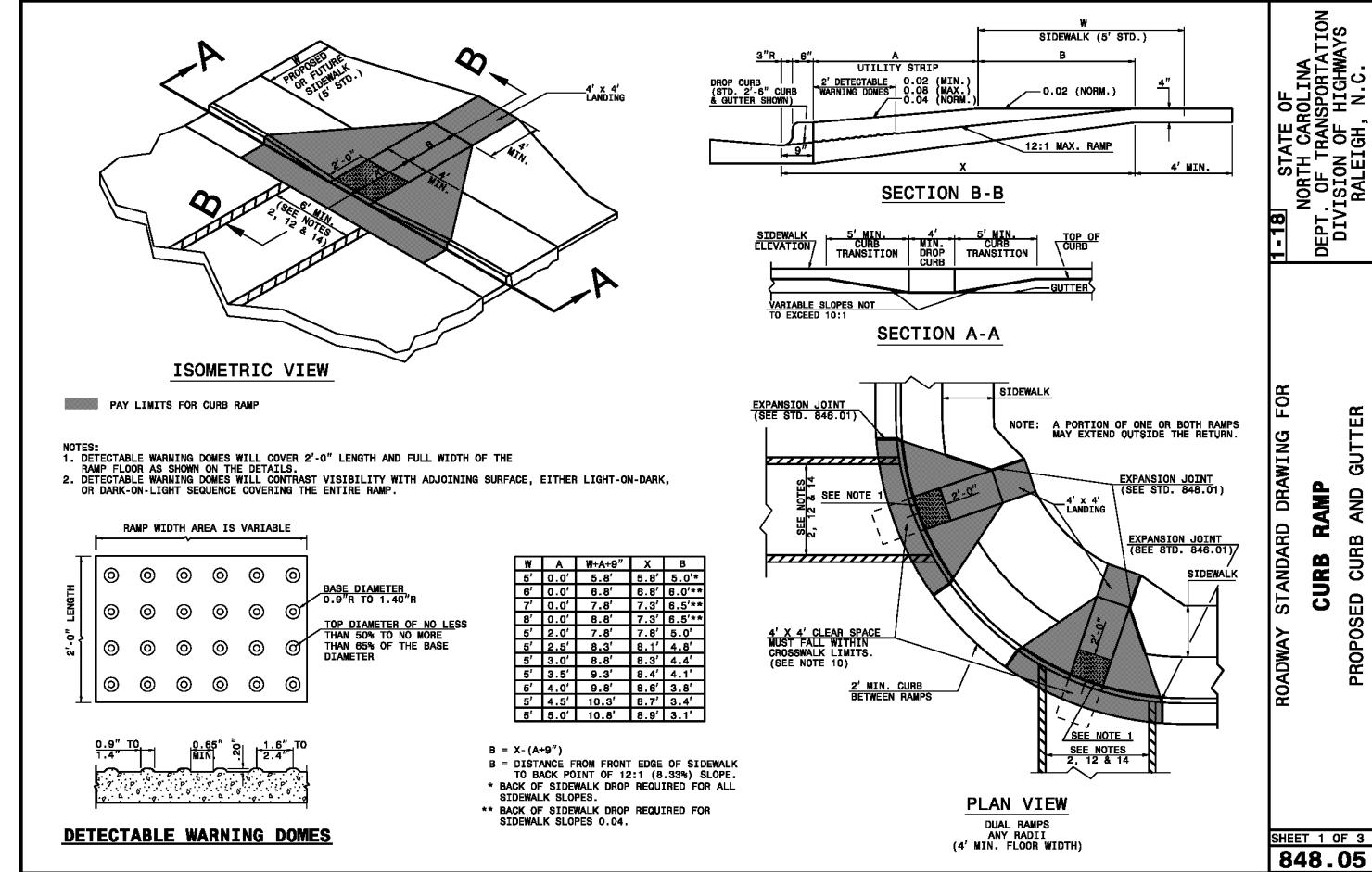
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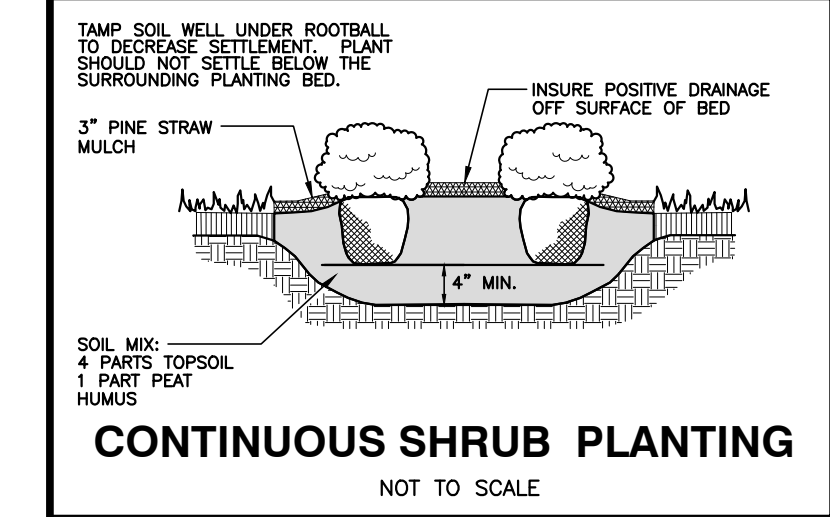
SHEET
C2.1

TOWN OF ANGIER PROJECT NO.

NOT RELEASED FOR CONSTRUCTION OR BID SOLICITATION







GENERAL NOTES

1. A/C UTILITY, TRANSFORMERS AND OTHER MECHANICAL OR UTILITY EQUIPMENT, NOT SHOWN ON THE PLAN, SHALL BE SCREENED FROM VIEW EITHER BY ADJUSTING PLANTING OR BY THE INSTALLATION OF A SCREENING WALL. PLANTING SHALL BE SHOWN IN CLOSE PROXIMITY TO EQUIPMENT OR BY THE ADDITION OF WAX MYRTLES @ 24" HT, 5' OC (SEE GENERAL NOTES) FOR EQUIPMENT ACCESSIBILITY AND PLANTING PROXIMITY, ETC.). DUMPSTER IS SCREENED FROM OFF-SITE VIEWS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO PLANTING.
3. MULCH SHALL BE 3" DEEP PINE STRAW UNLESS OTHERWISE NOTED.
4. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLAN LIST AND ON THE PLAN SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES BETWEEN PLAN LIST AND PLANTING PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
5. ALL TREES, SHRUBS, GROUNDCOVER, ETC. SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.
6. ALL ROOTBALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO PLANTING.
7. B&B AS LISTED UNDER "ROOT" IN THE PLAN LIST INDICATES BALLED & BURLAPPED.
8. ALL PLANTS/PLANTINGS SHALL BE MULCHED IMMEDIATELY AFTER PLANTING AND WATERED.
9. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO PREVIOUS EXISTING GRADE (UNLESS OTHERWISE NOTED).
10. ALL TREES AND SHRUBS SHALL REQUIRE MULCH RINGS AT THEIR BASE IF LEFT WITHIN LAWN AREAS.
11. MULCH EDGES AND PROPOSED PLANTINGS SHALL NOT DISTURB ANY EXISTING GROUPS OF TREES TO REMAIN. EDGES ARE SHOWN FOR APPROXIMATION ONLY, BUT ARE TO INDICATE SMOOTH, CLEAN CURVES.
12. CULVERTS, RIP-RAP STRUCTURES, AND OTHER STORMWATER DEVICES SHALL BE SCREENED WITH EVERGREEN SHRUBS. IF STRUCTURES ARE NOT SHOWN ON THE PLAN, PLANTING WAX MYRTLES @ 24" HT, - 5' OC.
13. A 2' MOUND OVERHANG, FROM THE BACK OF CURB, SHALL BE ALLOWED FOR MATURE SHRUBS.
14. TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL BE REMOVED PRIOR TO THE FINAL SITE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY (C.O.). THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A (C.O.).
15. ALL TREES SHALL BE LOCATED A MINIMUM OF 6' FROM SIDEWALKS.

PLANTING NOTES:
LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC.
ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR THE TREE STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.
SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER, O.C. = ON-CENTER

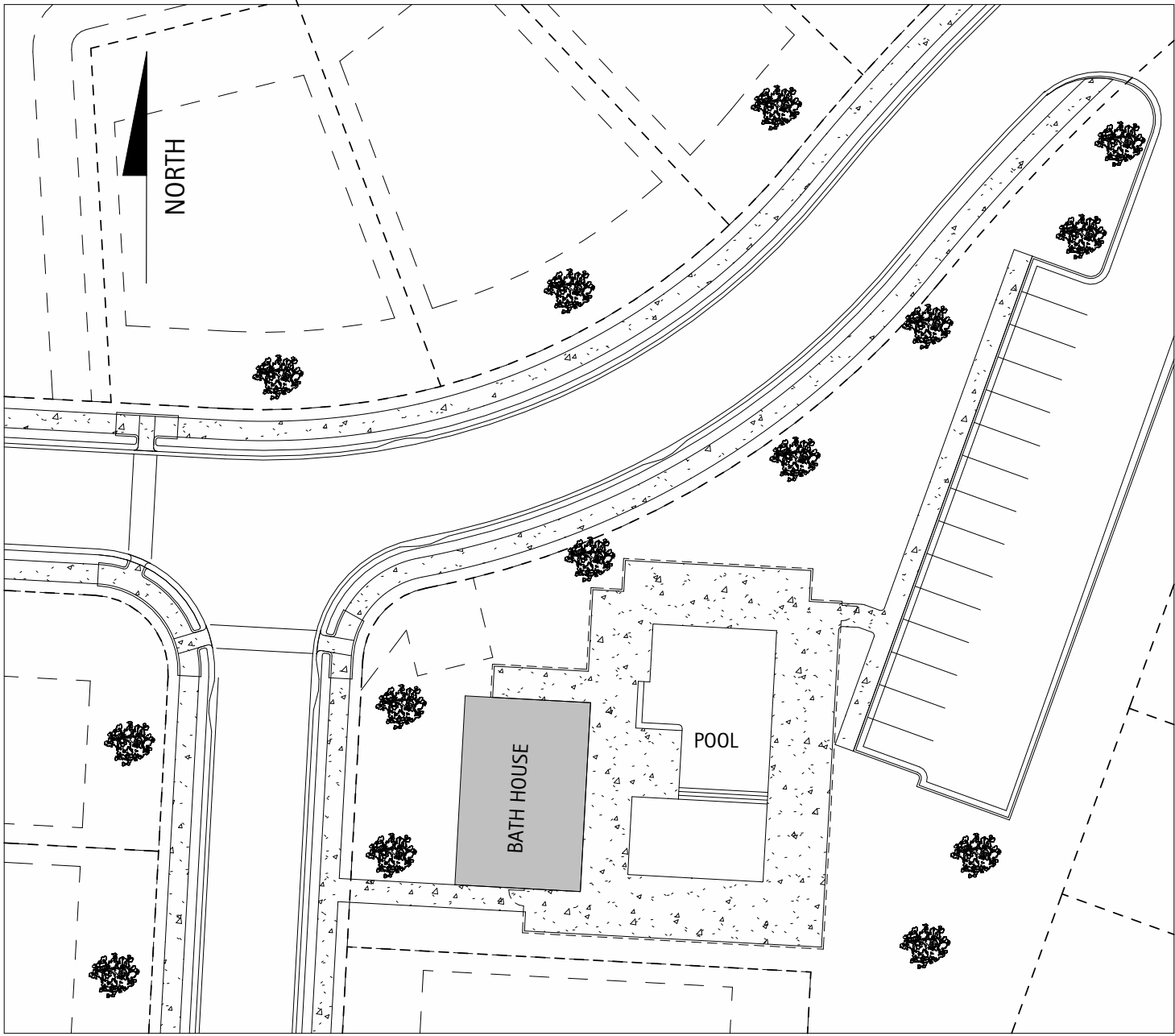




VICINITY MAP

STATION POINTE BATHHOUSE & POOL

ANGIER, NORTH CAROLINA



SITE MAP






DRAWING INDEX						
SHEET NUMBER	SHEET NAME	REV 01	REV 02	REV 03	REV 04	REV 05
0-GENERAL						
G0.1	COVER SHEET					
G0.2	BUILDING CODE SUMMARY					
G0.3	LIFE SAFETY PLAN					
G0.4	GENERAL NOTES					
1-ARCHITECTURAL						
A1.0	FOUNDATION & FLOOR PLANS					
A1.1	RCP & ROOF PLANS					
A2.0	EXTERIOR ELEVATIONS					
A2.1	EXTERIOR ELEVATIONS					
A3.1	SECTIONS AND DETAILS					
A4.0	ENLARGED PLANS & DETAILS					
A5.0	GENERAL BUILDING DETAILS					
A5.1	GENERAL SIDING DETAILS					
A6.0	SCHEDULES & DETAILS					
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S1	SLAB & FOUNDATION PLAN					
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13-PLUMBING PLANS						
P1	PLUMBING NOTES & SCHEDULES					
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15-MECHANICAL						
M1	MECHANICAL NOTES, PLANS, & SCHEDULES					
16-ELECTRICAL						
E1	ELECTRICAL NOTES & SCHEDULES					
E2	LIGHTING & POWER PLANS					
E3	POWER RISER & PANEL SCHEDULE					
17-POOL						
SP1.0	CONTROL JOINT & DIMENSION PLAN					
SP2.0	OVERALL POOL LAYOUT PLAN					
SP2.1	POOL ELECTRICAL & PIPING PLAN					
SP3.0	POOL SECTIONS & DETAILS					
SP3.1	POOL SECTIONS & DETAILS					
SP4.0	SPECIFICATIONS					
SP4.1	SPECIFICATIONS					
SP4.2	SPECIFICATIONS					

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ENGINEERS P C
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INFO@ROSSLINDEN.COM

Perry Cox architect, p.a.
207 Hudson Avenue, Apex, NC 27502
P: 919.363.5411
www.pcoxdesign.com



STATION POINTE AMENITY

DRB GROUP

ANGIER, NORTH CAROLINA

DATE	
REVISION	
NO.	

PROJECT #:

2024020

DATE ISSUED:

11/11/2024

DRAWING BY:

JGM

CHECKED BY:

DSC/PGC

100% I.F.P.

COVER SHEET

G0.1

APPENDIX B BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS

Name of Project: Station Pointe Amenity

Address: Angier, NC

Owner or Authorized Agent: John Moxley

Email: john@clugston.com

Owned By: ☒ Privately

Code Enforcement Jurisdiction: ☐ City ☐ County

Name of Jurisdiction: Town of Angier / Harnett County

Zip Code: 27501

Phone #: 919-691-1170

Fax #:

☐ City/County ☐ State

☐ City ☐ County ☐ City/County

PROJECT SUMMARY: A-3 New Building

Building Description: A-3, Seasonal Drain Down bath house Pool Amenity

Scope of Work: New Building full scope of architectural, structural, plumbing, mechanical,electrical, and pool plans

Lead Design Professional/Project Coordinator: John Moxley 919-691-1170

DESIGNER FIRM NAME LICENSE # TELEPHONE #

Architectural: Perry Cox Architect, PA Perry Cox, AIA 9630 919-393-5411

Civil: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Electrical: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Fire Alarm: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Plumbing: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Mechanical: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Sprinkler-Standpipe: Ross Linden Engineers Brian Ross, PE 25539 919-832-5680

Structural: Eric A Gilbert, PE 036322 919-467-9988

Precast: Truss Builders Eric A Gilbert, PE 036322 919-467-9988

Retaining Walls >5' High: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Other: Pool: Kilian Engineering Jacob L. Hamilton 048012 252-438-8778

Note:

Building Code: ☒ 2018 North Carolina State Building Code (NCSBC) ☐ 2009 North Carolina State Building Code

Architectural: ☐ 2009 NC Rehab ☐ 2006 NC Rehab ☐ 2006 Chapter 34 ☐ 1995 Existing Building Code

New Building: ☒ New Building ☐ Shell Building ☐ First Time Interior Completion

Existing Building: ☐ Renovation ☐ Reconstruction ☐ Change of Use Tenant ☐ Interior Completion ☐ Repair ☐ Change of Occupancy ☐ Tenant Alteration ☐ Alteration to Shell

Note: Zoning Review May Be Required for Change of Use or Occupancy

Original Occupancy: (A-3) Assembly

OCCUPANCY INFORMATION

Primary Occupancies:

Assembly: ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5

Hazardous: ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5

Institutional: ☐ I-1 Condition ☐ 1 ☐ 2 ☐ I-2 Condition ☐ 1 ☐ 2 ☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ I-4

Mercantile: ☐

Residential: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

Storage: ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled ☐ Parking Garage: ☐ Open ☐ Enclosed ☐ Repair Garage

Utility and Miscellaneous: ☐

Special Occupancies: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____

☐ Non-Separated Mixed Occupancy (508.3)- The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Mixed Occupancy (508.3.3)- See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A

Allowable Area of Occupancy A

Actual Area of Occupancy B

Allowable Area of Occupancy B

+

+

=

< 1

ALLOWABLE AREA AND HEIGHT CALCULATIONS

THIS SECTION FOR NEW, ADDITION, CHANGE OF USE, AND INTERIOR COMPLETIONS

Exterior Wall	Actual Length	Open Length	lic Way or	Open Space 30'
North				
South				
East				
West				
Total	P	F		W

INCREASE FRONTAGE _____ %
SPRINKLERS _____ %
FRONTAGE INCREASE FORMULA ALLOWABLE AREA FORMULA
 $I_s = 100[(F - 0.25) / W]$

BOTH BUILDING AND TENANT MUST BE INDICATED ON CHART BELOW

Story No.	DISCRIP- t USE	BLDG AREA (ACTUAL SF)	TABLE 506.2 STORY ALLOWABLE AREA (SF)	AREA FOR INCREASE FRONTAGE	SPRINKLER FLOOR AREA	ALLOWABLE AREA	RATE OF ACTUAL/ ALLOWABLE	MAXIMUM BUILDING AREA	SEPARATION AREA REQUIRED
Main Level	A-3	1,568	6000	N/A	N/A	N/A	0.261	6000 SF	N/A

1. Frontage 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) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I = 100 [(F/P - 0.25) \times W/30]$ (%)
2. Unlimited area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
4. The maximum area of open parking garages must comply with Table 406.5.4
5. Frontage increase is based on the unsprinklered area value in Table 506.2

ALLOWABLE HEIGHT				
MOST RESTRICTIVE (GROUP)	ALLOWABLE BUILDING HEIGHT (TABLE 504.3)	INCREASE FOR SPRINKLERS	ACTUAL BUILDING HEIGHT AS SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type_VB	Type_VB	Type_VB	403.3.1
Building Height in Feet	H = 40'-0"	N/A	H = 18'-0"	403.3.1
Building Height in Stories	S = 1	N/A	S = 1	403.3.1

BUILDING DATA

THIS SECTION REQUIRED FOR ALL PROJECTS

Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV-HT ☐ V-A ☒ V-B

Mixed construction: ☐ Yes ☒ No Types ☐ NFPA 13R ☐ Partially Sprinklered ☐ Special Suppression

Sprinklers: ☐ Yes ☒ No Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry (Appendix D) ☐ Floor Hazard

Standpipes: ☐ Yes ☒ No

Fire District: ☐ Yes ☒ No

Building Height: 18' Feet 1 Story

Basement: ☐ Yes ☒ No

Mezzanine: ☐ Yes ☒ No

High Rise: ☐ Yes ☒ No Life Safety Plan Sheet # (if provided): G0.3

Gross Building Area:

FLOOR	EXISTING (SQFT)	NEW (SQFT)	SUB-TOTAL
First Floor	0	1,568	1,568

Area of Project Tenant/Alteration/Renovation: _____

Area of Construction: _____

FIRE PROTECTION REQUIREMENTS

THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided G0.3

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	PROVIDED (W/REDUCTION)	DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Bearing Walls Exterior							
North	0	0					
East	0	0					
West	0	0					
South	0	0					
Interior Bering walls	0	0					
Nonbearing Walls Exterior							
North	0	0					
East	0	0					
West	0	0					
South	0	0					
Interior Bering walls	0	0					
Structural Frame, including columns, girders, trusses							
Floor construction, including supporting beams and joists. List construction type.	0	0					
Floor Ceiling Assembly	0	0					
Columns Supporting Floors	0	0					
Roof construction, including supporting beams and joists**							
Roof Ceiling Assembly	0	0					
Columns Supporting Roof							
Shafts- Exit Enclosures	N/A	N/A					
Shafts- Other (describe)	N/A	N/A					
Corridor Separation	N/A	N/A					
Occupancy Separation	N/A	N/A					
Party/ Fire Wall Separation	N/A	N/A					
Incidental Use Separation	N/A	N/A					
Dwelling/ sleeping unit Separation	N/A	N/A					
Smoke Barrier Separation	N/A	N/A					
Tenant Separation							

* Indicate section number permitting reduction

** Indicated if using Table 601 Note C exception

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES/PROTECTION	DEGREE OF OPENINGS	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
N/A			

THIS SECTION REQUIRED FOR ALL PROJECTS

CHECK IF THE FOLLOWING ARE PRESENT AND INDICATE BY A WALL LEGEND ON ALL PLANS

☐ Fire Partitions 708 ☐ Fire Walls 705 ☐ Fire Barriers 706 ☐ Smoke Partitions 710 ☐ Smoke Barriers 709 ☐ Shaft Enclosure 707

LIFE SAFETY SYSTEMS REQUIREMENTS

THIS SECTION IS REQUIRED FOR ALL PROJECTS

Emergency Lighting: ☒ Yes ☐ No

Exit Signs: ☒ Yes ☐ No

Fire Alarm: ☒ Yes ☐ No

Smoke Detection Systems: ☒ Yes ☐ No

Panic Hardware: ☒ Yes ☐ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # _____ G0.3

☐ 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 loads for each area

☐ Exit access travel distance (1017)

☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))

☐ Dead end lengths (1020.4)

☐ Clear exit widths for each exit door

☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

☐ Actual occupant load for each exit door

☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

☐ 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

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

THIS SECTION IS REQUIRED FOR ALL PROJECTS

1. Corridor dead ends (Section 1017.3)

2. Single exits (Section 1015.1; Section 1019.2)

3. Common Path of Egress Travel (Section 1014.3)

FLOOR, ROOM AND/OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS REQUIRED	SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS REQUIRED BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
POOL DECK	2	2	200'-0"	110'-2"	59'-6"	110'-6"

OCCUPANT LOAD AND EXIT WIDTH									
Room Name	Area	Occupancy		Egress Width per Occupant(1005.3)		Required Width		Actual Width Shown	
		Load Factor	Load Count	Level	Stair	Level	Stair	Level	Stair
PUMP ROOM	220 SF	300 SF	1	0.2		0.2			
CHEM ROOM	31 SF	300 SF	1	0.2		0.2			
MENS	153 SF	0 SF		0.2					
WOMENS	152 SF	0 SF		0.2					
COVERED PORCH	924 SF	15 SF	62	0.2		12.4			
POOL	2017 SF	50 SF	41	0.2		8.2			
6' CLEAR AREA	2011 SF	15 SF	135	0.2		27			
POOL DECK	2335 SF	15 SF	156	0.2		31.2		92	
Grand total	7842 SF		396	1.6		79.2		92	0

- See Table 1004.1.1 to determine whether net or gross area is applicable
- Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1.1)
- Minimum width of exit passageway (Section 1021.2)
- The loss of 1 means of egress shall not reduce the available capacity to less than 50% of the total required (Section 1005.1)
- Assembly occupancies (Section 1025)

ASSEMBLY OCCUPANCY INFORMATION						
Name	Type	Area	Occupancy Load Factor	Load Count	Exit Width (inches)	Exit Quantity
COVERED PORCH	Assembly - Unconcentrated (tables and chairs)	924 SF	15 SF	62	12.4	
POOL	Swimming Pool water surface	2017 SF	50 SF	41	8.2	
6' CLEAR AREA	Swimming Pool Deck	2011 SF	15 SF	135	27	
POOL DECK	Swimming Pool Deck	2335 SF	15 SF	156	31.2	
Grand total				394	78.8	

PLUMBING FIXTURE REQUIREMENTS								
THIS SECTION IS REQUIRED FOR ALL PROJECTS								
USE	WATERCLOSETS		URINALS	LAVATORIES		RINSE SHOWERS	DRINKING FOUNTAINS	
	Male	Female		Male	Female		REGULAR	ACCESSIBLE
SPACE	EXIST'G							
	NEW							
Total Required	2	3	0	1	2	1	1	1
Total Provided	1	3	1	1	2	1	1	1
384 PERSONS / 2 = 192 M / 192 F								
WATERCLOSETS: 192 MALE / 126 = 2 WC = 1 WC & 1 URINAL								
192 FEMALE / 65 = 3 WC = 3 WC								
LAVATORY: 192 MALE / 200 = 1 LAV. = 1 LAV								
192 FEMALE / 200 = 2 LAV = 2 LAV								

STRUCTURAL DESIGN LOADS

THIS SECTION IS REQUIRED FOR ALL PROJECTS

DESIGN LOADS:

Importance Factors: Snow (I_s) _____ Seismic (I_s) _____

Live Loads: Roof _____ psf Mezzanine _____ psf Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Ultimate Wind Speed _____ mph (ASCE Exposure Category _____)

SEISMIC DESIGN CATEGORY: A B

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) _____

Spectral Response Acceleration _____ %g

Site Classification _____

Basic S_s _____

Field Test _____ Presumptive _____ Historical Data _____

Bearing Wall _____ Dual w/ Special Moment Frame _____

Building Frame _____ Dual w/ Intermediate R/C or Special Steel _____

Moment Frame _____ Inverted Pendulum _____

Analysis Procedure: Simplified _____ Equivalent Lateral Force _____ Dynamic _____

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake _____ Wind _____

SOIL BEARING CAPACITIES: Field Test (provide copy of test report) _____ psf Presumptive Bearing Capacity _____ psf Pile size, type, and capacity _____

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THIS SECTION FOR NEW, ADDITION, CHANGE OF USE, AND INTERIOR COMPLETION

Thermal Zone: Winter Dry Bulb: _____ Summer Dry Bulb: _____

Interior Design Conditions: Winter Dry Bulb: _____ Summer Dry Bulb: _____ Relative Humidity: _____

Building Heating Load: Unitary _____ Description of Unit: _____ Heating Efficiency: _____ Cooling Efficiency: _____ Size of Unit: _____

Boiler _____ Size Category, If oversized, state reason: _____

Chiller _____ Size Category, If oversized, state reason: _____

List equipment efficiencies: _____

ACCESSIBLE PARKING					
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	ACCESSIBLE SPACES PROVIDED	ACCESSIBLE SPACES WITH 132" ACCESS	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

ELECTRICAL SUMMARY

THIS SECTION FOR NEW, ADDITION, CHANGE OF USE, AND INTERIOR COMPLETION

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ASHRAE 90.1 Performance Prescriptive

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. a11
Total exterior wattage specified vs. a11

Additional Efficiency Packs (When using the 2009 ASHRAE 90.1)
C406.1 Lighting Power Density
C406.2 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

ENERGY SUMMARY

THIS SECTION FOR NEW, ADDITION, CHANGE OF USE, AND INTERIOR COMPLETION

SEASONAL DRAIN DOWN BUILDING

SPECIAL APPROVALS

(Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

TOWN OF ANGIER, HARNETT COUNTY HEALTH DEPARTMENT

STATION POINTE AMENITY

DRB GROUP
ANGIER, NORTH CAROLINA

DATE	
REVISION	
NO.	

PROJECT #: 2024020
DATE ISSUED: 11/11/2024
DRAWING BY: JGM
CHECKED BY: DSC/PGC

100% I.F.P.

BUILDING
CODE
SUMMARY

G0.2

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OCCUPANCY SCHEDULE CLUBHOUSE					
Room Number	Room Name	Type	Occupancy		
			Area	Load Factor	Load Count
101	PUMP ROOM	Accessory Storage Areas, Mechanical Equipment Room	220 SF	300 SF	1
102	CHEM ROOM	Accessory Storage Areas, Mechanical Equipment Room	31 SF	300 SF	1
103	COVERED PORCH	Assembly - Unconcentrated (tables and chairs)	924 SF	15 SF	62
104	WOMENS	N/A	152 SF	0 SF	
105	MENS	N/A	153 SF	0 SF	
Grand total			1480 SF		64

OCCUPANCY SCHEDULE POOL					
Room Number	Room Name	Type	Occupancy		
			Area	Load Factor	Load Count
PL100	POOL	Swimming Pool water surface	2017 SF	50 SF	41
PL101	6' CLEAR AREA	Swiming Pool Deck	2011 SF	15 SF	135
PL102	POOL DECK	Swiming Pool Deck	2335 SF	15 SF	156
Grand total			6362 SF		332

GENERAL LIFE SAFETY NOTES:

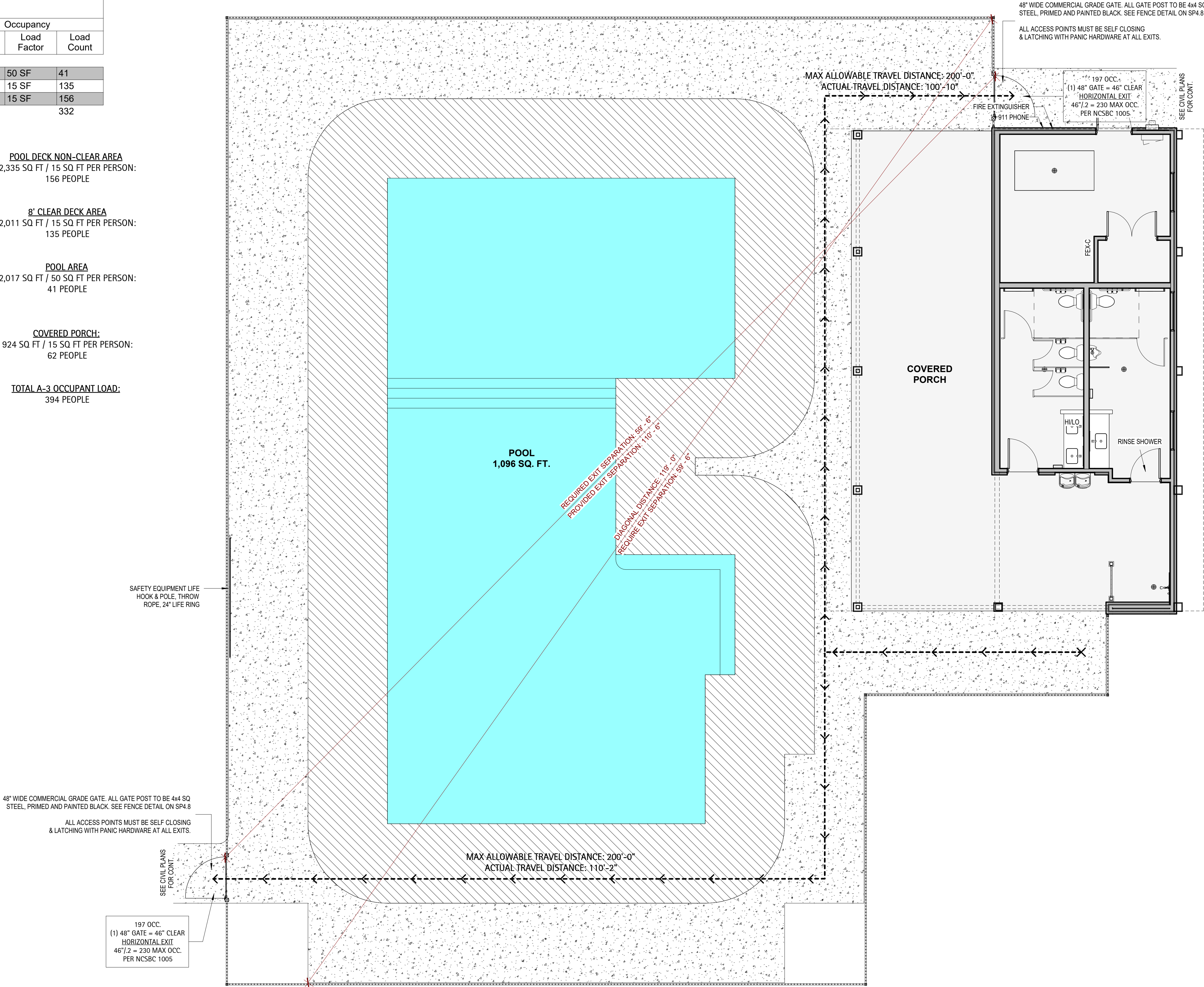
USE:	A-3 (ASSEMBLY)
PRIMARY LOAD FACTOR:	UNCONCENTRATED TABLES & CHAIRS (15 SF)
OCCUPANT LOAD:	394 PPL
CONSTRUCTION TYPE:	V-B
SPRINKLERS:	NO
REQUIRED EXITS:	2
PROVIDED EXITS:	2
DIAGONAL DISTANCE:	119'-0"
REQUIRED EXIT SEPARATION:	119'-0"/2 = 59'-6"
PROVIDED EXIT SEPARATION:	110'-6"
REQUIRED EGRESS WIDTH:	78.8"
PROVIDED EGRESS WIDTH:	92"
MAXIMUM COMMON PATH OF TRAVEL:	75'-0"
MAXIMUM ALLOWABLE TRAVEL DISTANCE:	200'-0"
ACTUAL MAX TRAVEL DISTANCE:	110'-2"

GENERAL PLUMBING NOTES:

USE:	A-3 (ASSEMBLY)
OCCUPANT LOAD:	394 PPL / 2 = 197 PPL
REQUIRED MALE WATER CLOSETS:	2 (1 PER 125 PPL)
REQUIRED FEMALE WATER CLOSETS:	3 (1 PER 65 PPL)
PROVIDED MALE WATER CLOSETS:	1 WC & 1 URINAL
PROVIDED FEMALE WATER CLOSETS:	3
REQUIRED MALE LAVATORIES:	1 (1 PER 200)
REQUIRED FEMALE LAVATORIES:	1 (1 PER 200)
PROVIDED MALE LAVATORIES:	1
PROVIDED FEMALE LAVATORIES:	2
REQUIRED WATERCOOLERS:	2 (1 PER 500)
PROVIDED WATERCOOLERS:	2
REQUIRED SERVICE SINKS:	1
PROVIDED SERVICE SINKS:	1(HOSE BIB & FLOOR DRAIN)

LIFE SAFETY SYMBOL LEGEND	
	EMERGENCY EXIT
FEX	SEMI-RECESSED 'ABC' TYPE FIRE EXTINGUISHER TO MEET NFPA-10 STANDARDS. MOUNT @ 15" MIN. - 48" MAX A.F.F.
FEX-C	BRACKET MOUNTED WATER TYPE FIRE EXTINGUISHER TO MEET NFPA-10 STANDARDS. MOUNT @ 15" MIN. - 48" MAX A.F.F.
	INDICATES TRAVEL DIRECTION

	POOL DECK NON-CLEAR AREA 2,335 SQ. FT / 15 SQ. FT PER PERSON: 156 PEOPLE
	8' CLEAR DECK AREA 2,011 SQ. FT / 15 SQ. FT PER PERSON: 135 PEOPLE
	POOL AREA 2,017 SQ. FT / 50 SQ. FT PER PERSON: 41 PEOPLE
	COVERED PORCH: 924 SQ. FT / 15 SQ. FT PER PERSON: 62 PEOPLE
	TOTAL A-3 OCCUPANT LOAD: 394 PEOPLE



STATION POINTE AMENITY

DRB GROUP

ANGIER, NORTH CAROLINA

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100% I.F.P.	

LIFE SAFETY PLAN

G0.3

GENERAL NOTES

- The General Contractor shall be both licensed and bonded in North Carolina and shall provide documents upon the Architect's request.
- The Work shall be done in accordance with all rules and regulations of the North Carolina State Building Code 2018 along with city, county, and state regulations. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections during the course of the Work.
- General Contractor shall be responsible for the provisions for job safety. These drawings do not contain provisions for job safety.
- Dimensions are to face of framing unless otherwise noted.
- Do not scale drawings. Stated & written dimensions govern. The General Contractor shall verify all dimensions in the field and shall be responsible for their accuracy. No extra charge or compensation shall be allowed because of difference between actual dimensions and those indicated on the drawings, unless they contribute to a change in the scope of the Work. Any difference which may be found shall be submitted to the Architect for decision prior to ordering, manufacturing, or proceeding with the Work. Horizontal dimensions indicated are to/from face of finish, unless noted otherwise. Vertical dimensions are from top of floor slab except where noted to be above finished floor (AFF). Dimensions are not adjustable without approval of Architect unless noted +/-.
- General Contractor shall be responsible for comparing all dimensions in the construction documents and existing conditions in the field.
- Framing Subcontractor shall coordinated framing with locations of HVAC vents, plumbing and light fixtures so as to avoid conflict.
- The General Contractor shall provide protection and be responsible for any existing finishes to remain and shall repair or replace any damaged areas as a result of the work. All existing finishes to remain shall be cleaned at the completion of construction.
- All materials and systems shall be installed as per manufacturer's specifications and all construction shall be of industry standard or better. The Architect shall be ultimate judge of quality.
- Only new items of recent manufacture, of standard quality, free from defects, will be permitted in the Work, unless otherwise noted. Rejected items shall be removed immediately from the Work and replaced with items of the quality specified. Failure to remove rejected materials and equipment shall not relieve the General Contractor from the responsibility for quality of items used nor from any other obligation imposed on him by the Contract.
- General Contractor shall be responsible for notifying the Architect immediately of construction deviating from depicted or implied information here-in. In the event of conflict between data shown on drawings and data shown in the specification, the specification shall govern. Detail drawings take precedence over drawings of larger scope. Should the General Contractor at any time discover an error in a drawing or specification, or any discrepancy, or variation between dimensions on the drawings and measurements at site, or lack of dimensions or other information, the Contractor shall not proceed with the work affected until clarification has been made by the Architect. In case of an inconsistency between Drawings and Specifications or within either Document, not clarified by addendum, the more specific provision will take precedence over less specific; more specific will take precedence over less stringent; more expensive item will take precedence over less expensive. Better quality or greater quantity of Work shall be provided in accordance with Architect's interpretation. On Drawings, figures take precedence over scaled dimensions. Scaling of dimensions, if done, is done at the Contractor's own risk.
- General Contractor shall verify that no conflicts exist in locations of any and all mechanical, telephone, electrical, plumbing and sprinkler equipment (to include all piping, duct work, sprinklers structural members and conduit) and that clearances for installation and maintenance of above equipment is provided. Elements in conflict shall be determined and reviewed with the Architect prior to work proceeding. Contractor to coordinate new work with existing conditions.
- The General Contractor shall provide shop drawings for the Architect's review and approval for the following: All shop fabricated millwork, carpet layout, flooring, light fixtures, doors, misc. steel, metal fabrication, glass/glazing, sprinkler layouts, hardware. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, fasteners, acrylic, carpet, tile, base, paint, laminate and any other materials indicated in the shop drawing.
- The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, plumbing equipment, electrical equipment, fans, supplemental heating and cooling elements, all hardware and security equipment. General contractor shall be responsible for verifying all field dimensions prior to ordering equipment and/or casework.
- The General Contractor shall not proceed with work for which he expects additional compensation beyond the contract amount with out written authorization from the Architect and Owner. Failure to obtain such authorization shall invalidate a claim for extra compensation. The Contractor shall not proceed with work which, if completed in strict conformance with the Construction Documents, will result in additional work beyond the scope of the Contract without written authorization from the Architect and Owner. Any field conditions that significantly vary from the Contract Documents or will result in additional work, shall be brought to the attention of the Architect prior to proceeding with work.
- Contractor shall include all x-ray and core drill costs. All core drilling of the slab shall be approved by the Landlord's Structural Engineer prior to proceeding with the Work. Contractor shall submit proposed locations to Architect and Structural Engineer for review prior to proceeding with the work.
- Patch, repair and install all fireproofing as required by code. Fireproof any new penetrations required by the work.
- General Contractor to coordinate and review size and location of all slab penetrations. All required penetrations shall be made in accordance with the Owner's standard approval procedures and methods. All penetrations shall be properly sealed according to the Architect and the Owner's requirements and applicable codes.
- The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems. No allowances of any kind will be made for the General Contractor's negligence to foresee means of installing equipment into position.
- The finished work shall be firm, well-anchored, in true alignment, plumb, level, with smooth, clean, uniform, appearance without waves, distortions, holes, marks cracks, stains, or discoloration. Joining shall be close fitting, neat and well scribed. The finished work shall have no exposed unsightly anchors or fasteners and shall not present hazardous, unsafe corners. All work shall have the provision for expansion, contraction and shrinkage as necessary to prevent cracks, buckling, and warping due to temperature and humidity conditions.
- Attachments, connections or fasteners of any nature are to properly and permanently be secured in conformance with best practice and the General Contractor is responsible for improving them accordingly. The drawings highlight special conditions only and by no means illustrate every connection. The Contractor is responsible for improving connection accordingly.
- General Contractor shall waive "Common Practice" and "Common Usage" as construction criteria wherever details and Contract Documents of governing codes, ordinances, etc. require quantity or better quality than common practice or common usage would require.

GENERAL NOTES

- The General Contractor shall submit shop drawings and submittals order and schedule delivery of materials in ample time to avoid delays in construction. If an item is found to be unavailable or to have a long lead time, the General Contractor shall notify Architect immediately with a proposed alternative.
- The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies, errors, conflicts or omissions found in the construction documents and specifications prior to the commencement of the work in this area. Any unreported deficiencies will become the responsibility of the General Contractor to correct.
- The General Contractor shall exercise extreme care and precaution during the construction of the Work, and schedule work, to minimize disturbances to adjacent spaces and /or structures and their occupants, property, public thoroughfares, etc. The General Contractor shall take precautions and be responsible for the safety of all building occupants from construction procedures. The General Contractor shall be responsible for any overtime costs incurred thereby.
- All debris shall be removed from the site on a daily basis when possible. Upon completion of the work, remove all debris from the building created by the work provided under this Contract and leave all areas clean. Trash is not permitted to be burned on site.
- All abandoned miscellaneous nails, hangers, staples, wires, conduits and debris shall be removed from the walls and areas of exposed ceilings. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as req. to maintain UL fire rating of floor slab where pipes and conduits have been removed.
- Slab penetrations less than 2" around new and existing piping, conduit, ductwork, etc. shall be filled with acoustic foam and/or sealant to ensure acoustical separation between floor slabs. Slab penetrations greater than 2" around new and existing piping, conduit, ductwork, etc. shall be filled with concrete. All piping, conduit, ductwork, etc. shall be wrapped with expansion material prior to filling with concrete. Expansion material shall be approved by the MEP Engineer.
- Contractor shall provide the Team with a construction schedule showing the proposed phasing. Any long lead items that will affect the Substantial Completion date shall be brought to the Architect's attention immediately.
- Provide protection for existing finishes to remain, including restrooms, lobbies and corridors and repair damages as a result of construction. Document any existing conditions or damages prior to the start of construction
- General Contractor shall be responsible for providing exhaust for dryers, bathrooms, and ranges to exterior with proper terminus (not to be located on street side elevation). Verify terminus type and laction with owner prior to installation.
- The Architect shall not be responsible for constructed variations from the information contained here-in unless reviewed and approved by Architect.
- Do not scale drawings, but rather inquire of Architect. Reproduction of these drawings is prohibited unless written permission is obtained from the Architect.
- All Trades to caulk with Manicapality Approved "Fire Caulk" at all top plate penetrations.

FLOOR FINISH NOTES

- Refer to Finish Plan & Schedule for extent and type of all floor finishes.
- GC to flashpatch floor to provide a level surface that shall not exceed 1/4" over 10 feet cumulative. At floor finish transitions flash patch to smooth transition of finished material to maintain level finished floor surface.
- All floors to slope to floor drains - 1/4" per 1'-0" U.N.O
- All exterior floor slabs to receive a light broom concrete finish. U.N.O.
- SEE STRUCTURAL DRAWINGS FOR ALL FOUNDATION SPECIFICATIONS.

INTERIOR FINISH NOTES

- Refer to Finish Schedule and Finish Plan for extent and type. All wall surfaces, metal frames, and trim shall be painted, UON. All surfaces to be painted shall be prepared for priming in accordance with the manufacturer's specifications.
- All painted surfaces shall receive 1 prime and 2 finish coats as follows:
GWB surfaces - Interior eggshell latex paint
GWB ceiling surfaces - Interior flat latex paint
Hollow Metal/Wood - Odorless interior semi-gloss alkyd latex
- Paint is to be applied by a roller or brush on all surfaces. Only the prime coat may be spray applied. Provide a 12"x12" GWB sample for each color for Owner's approval prior to the start of the Work.
- Toilet and bathing room floors shall have a smooth, hard, non-absorbant surface that extends upward onto the walls at least 6"
- Walls within 2' of urinals and waterclosets shall have a smooth, hard, non-absorbant surface to the height of 4' above the finish floor. Verify material with room schedule and/or Architect

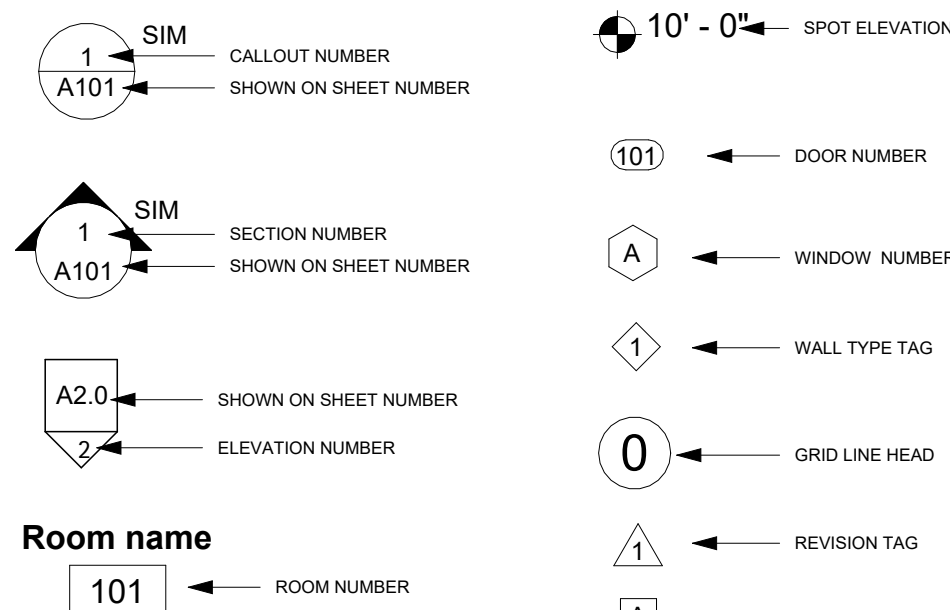
WALL SECTION NOTES

- Bituminous Damp Proofing shall be applied to exterior foundations of all habitable spaces.
- All treated lumber shall bear the designation AWPA C22. Pressure treated lumber shall be used in the following locations:
a. Wood in contact with concrete or masonry;
b. Siding within 6" of the ground;
c. Wood exposed to weather.
- Install 5/8" Densglass sheathing behind all tub and shower walls, use water-resistant GWB for all bathroom ceilings UNO.

ABBREVIATIONS

AC	ACOUSTIC	EG	EGG SHELL	KIT	KITCHEN	PBD	PARTICLE BOARD	TB	TACK BOARD
ACPL	ACOUSTICAL PLASTER	EXP	EXPOSED	KPL	KICKPLATE	PC	PRECAST CONCRETE	T&G	TONGUE AND GROOVE
ACT	ACOUSTICAL CEILING TILE	EXN	EXPANSION	LAM	LAMINATE	PG	PLATE GLASS	THK	THICK(NED)
ADH	ADHESIVE	EXT	EXTERIOR	LOQ	LACQUER	PGL-L	PATTERNED GLASS - LAMINATED	THR	THRESHOLD (SADDLE)
ADUT	ADJUSTABLE			LT	LIGHT	PLAM	PLASTIC LAMINATE	TM	TRAVERTINE MARBLE
ALT	ALTERNATE	F	FIXED	LTG	LIGHTING	PNL	PANEL	TPO	THERMOPLASTIC POLYEFIN
AL	ALUMINUM	FIN	FINISH	LVR	LOUVER	PT	POINT/ PAINT	TPTN	TOILET PARTITION
AP	ACOUSTIC PANEL	FL	FRAMELESS	LT WT	LIGHT WEIGHT	PTD	PAPER TOWL DISPENSER	TYP	TYPICAL
APC	ACOUSTIC PANEL CEILING	FLR	FLOOR	M	MILLWORK (TYPE)	PTN	PARTITION	TZ	TERRAZZO
ASPH	ASPHALT	FR	FRAME	MAS	MASONRY	PTR	PAPER TOWEL RECEPTOR	TZB	TERRAZZO BASE
AT	ASPHALT TILE	FRP	FIBRE REINFORCED PLASTIC	MAT	MATERIAL	PVC	POLYVINYL CHLORIDE	UNF	UNFINISHED
		FRT	FIRE RESISTANT TREATMENT	MH	MANHOLE	PWD	PLYWOOD	UON	UNLESS OTHERWISE NOTED
B	BASE	FWP	FABRIC WALL PANEL/PAPER	MIN	MINIMUM	PWT	PORCELIN WALL TILE	UNO	UNLESS NOTED OTHERWISE
BD	BOARD	FXD	FIXED (INOPERABLE)	MIR	MIRROR	QT	QUARRY TILE	V	veneer
BIT	BITUMINOUS			MISC	MISCELLANEOUS			VAR	VARIES
BR	BRICK	GA	GAUGE, GAGE	ML	METAL LATH	RB	RUBBER BASE	VEST	VESTIBULE
BRZ	BRONZE	GALV	GALVANIZED	MDG	MOULDING	RC	RECESS-MOUNTED CABINET	VPLAS	veneer PLASTER
CAB	CABINET	GLS	GLASS (GLAZING)	MP	MILLWORK-PLASTIC LAMINATE	REFR	REFLECTED CEILING PLAN		
CB	CERAMIC TILE BASE	GL-L	GLASS-LAMINATED	MT	MARBLE TILE	RES	RESILIENT	WA	WALL ART
CEM	CEMENT	GL-PS	GLASS PANEL SYSTEM	MTL	METAL	RFG	ROOFING	WB	WOOD BASE
CER	CERAMIC	GL-SS	GLASS STOREFRONT SYSTEM	MV	MILLWORK-WOOD VENEER	RM	ROOM	WC	WALL COVERING
CG	CORNER GAURD	GL-T	GLASS TEMPERED	MWK	MILLWORK	RVL	REVEAL	WD	WOOD
CI	CAST IRON	GRG	GRANITE	N/A	NOT APPLICABLE	SC	SEALED CONCRETE	WD-PS	WOOD PANEL SYSTE,
CLG	CEILING	GRG	GLASS/FIBRE REINFORCED GYPSUM	NF	NO FINISH	SF	SEAMLESS FLOORING /	WDV	WOOD VENEER
CLR	CLEAR	GRT	GLAZED TILE	NOM	NOMINAL	SS	SPORT FLOORING	WDW	WINDOW
CLR	CLEAR	GT	GLAZED TILE	NR	NOT RATED	SMC	SURFACE-MOUNTED CABINET	WG	WIRE GLASS
C-MAR	COMPOSITE MARBLE	GWB	GYPSUM WALLBOARD	NTS	NOT TO SCALE	SPEC	SPECIFICATION(S)	WH	WALL HUNG
CONC	CONCRETE	GYP	GYPSUM CEILING PANEL	OPNG	OPENING	SS	STAINLESS STEEL	WMB	WALL-MOUNTED BRACKET
COR	CORRIDOR	HD	HEAVY DUTY	OPS	OFFICE PARTITION SYSTEM	SSK	SERVICE SINK	WSC	WAINSCOT
CPT	CARPET	HW	HARDWARE (SET)			SSM	SOLID SURFACE MATERIAL	WT	WINDOW TREATMENT
CR	CROWN	HM	HOLLOW METAL			STL	STEEL		
CS	CONCRETE SEALER	IGU	INSULATED GLASS UNIT			STN	STONE		
CT	CERAMIC TILE	INSUL	INSULATING/ INSULATION			SUSP	SUSPENDED		
DR	DOOR	INT	INTERIOR						
DS	DOORSTOP/ DOWNSPOUT								

SYMBOLS



REFERENCED BUILDNG CODES

BUILDING: 2018 NORTH CAROLINA STATE BUILDING CODE
ENERGY: 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
FIRE: 2018 NORTH CAROLINA FIRE PREVENTION CODE
PLUMBING: 2018 NORTH CAROLINA STATE PLUMBING CODE
MECHANICAL: 2018 NORTH CAROLINA STATE MECHANICAL CODE
ELECTRICAL: 2020 NATIONAL ELECTRICAL CODE
ACCESSIBILITY: 2009 ANSI A117.1
POOL: 2015 INTERNATIONAL SWIMMING POOL AND SPA CODE
NCDENR - 15A NCAC 18A.2500

STATION POINTE AMENITY

DRB GROUP

ANGIER, NORTH CAROLINA

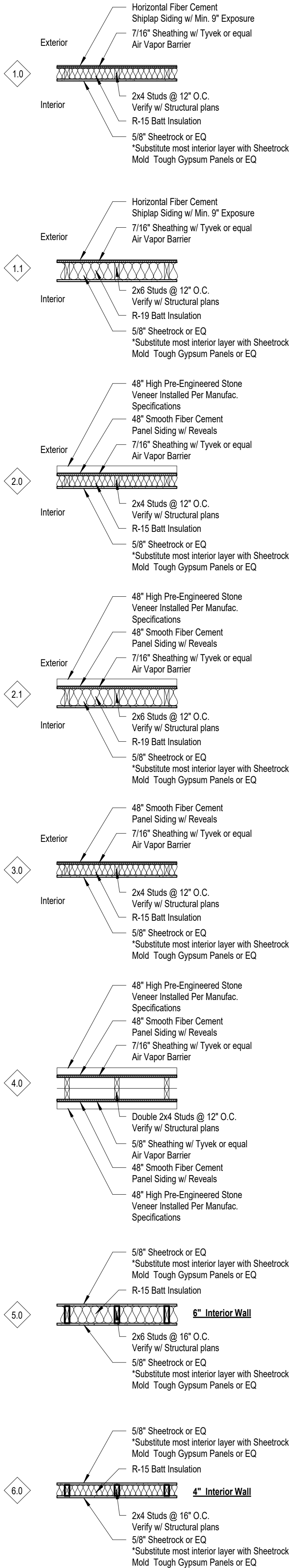


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GENERAL NOTES

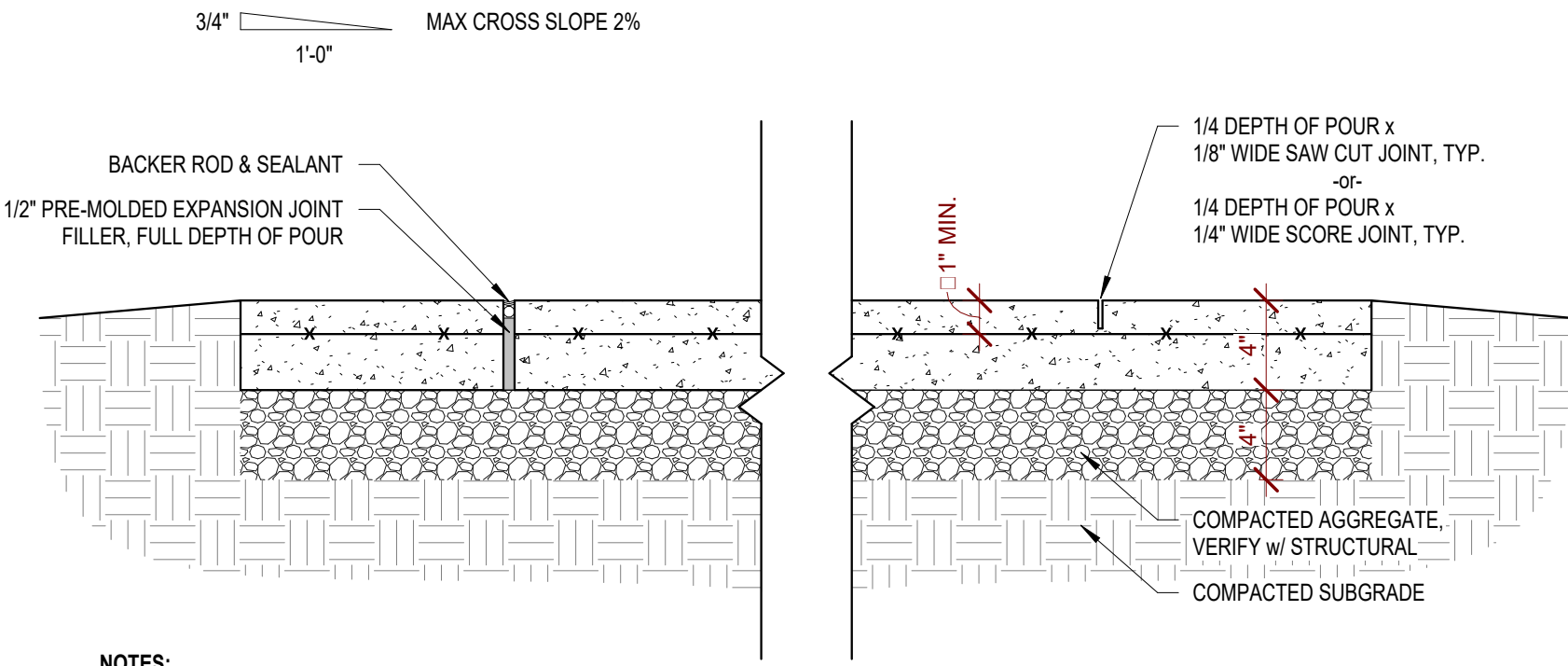
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WALL TYPE DETAILS



KEYNOTES

TAG	DISCRPTION	PROVIDED BY
A	HIGH / LOW WATER COOLER. SEE PLUMBING PLANS FOR SELECTIONS. SEE TYPICAL MOUNTING HEIGHT DETAILS.	C.P.C.I
B	ELECTRICAL METER w/ BACK TO BACK PANEL. SEE ELEC. DWGS. GC TO VERIFY LOCATION TO BE OUTSIDE OF POOL FENCING	C.P.C.I
C	10"X10" FAUX FRAMED COLUMN TO MATCH STRUCTURAL COLUMNS, WRAPPED W/ FINISH GRADE WOOD, STAINED.	C.P.C.I
D	STRUCT. STEEL PIPE COLUMNS, SEE STRUCT. DWGS FOR SIZE & INSTALLATION REQUIREMENTS. WRAP W/ FINISH GRADE WOOD, STAINED.	C.P.C.I
E	WATER HEATER TO BE INSTALLED IN ATTIC ABOVE WOMENS RESTROOM. SEE PLUMBING DWGS FOR SPECIFICATIONS & CLEARANCES.	C.P.C.I
F	4X4 TOJA GRID FRAME W/ 2X6 SLAT WALL @ RINSE SHOWER. STAIN ALL WOOD COMPONENTS TO MATCH COLUMNS	C.P.C.I
G	ATTIC ACCESS TO BE MIN. 22"x36" OR TO ALLOW THE PASSAGE OF THE LARGEST EQUIPMENT IN ATTIC SPACE. COORDINATE LOCATION W/ STRUCTURAL FRAMING PLANS.	C.P.C.I



NOTES:

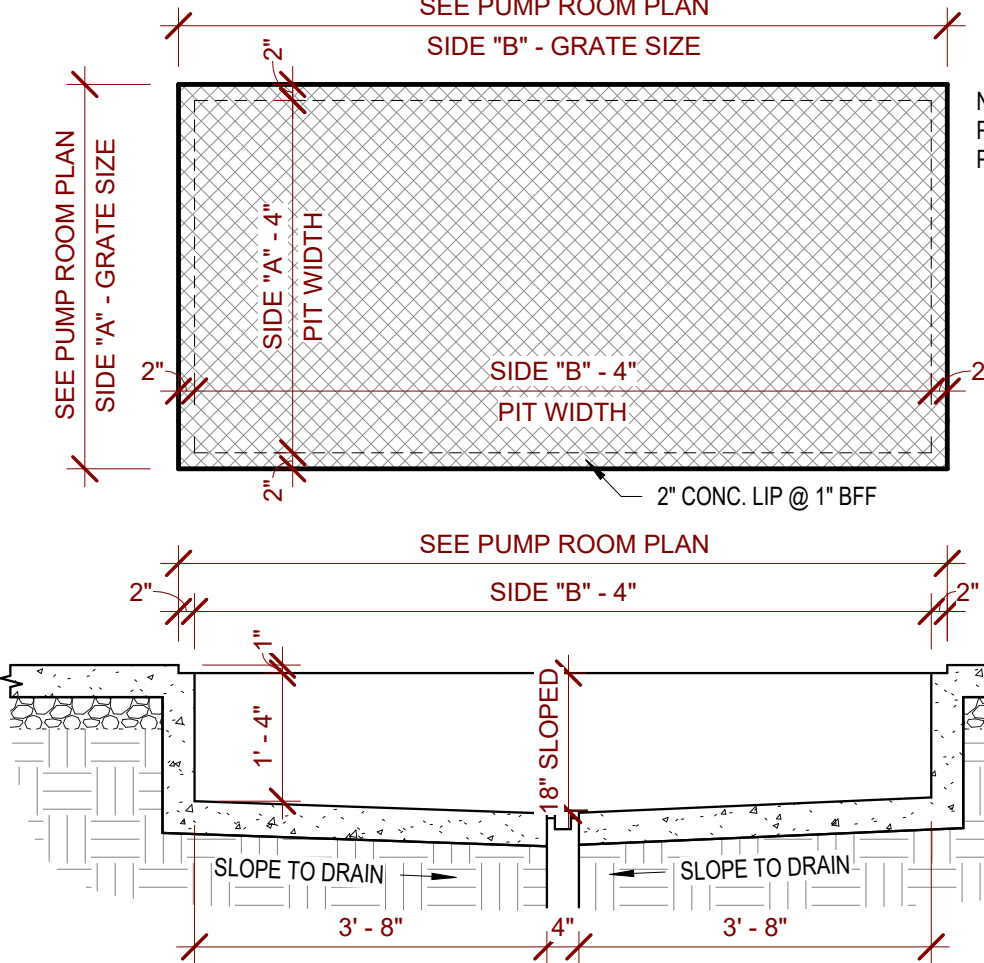
- ALL JOINTS TO BE CUT W/ WET WALK BEHIND SAW TO ENSURE ALL CUTS ARE PERPENDICULAR W/ FACE OF CONCRETE
- MAXIMUM CONTROL JOINT SPACING SHALL BE 10 FT. IN EACH DIRECTION UNLESS SHOWN OTHERWISE ON PLAN, SEE STRUCT.
- PROVIDE EXPANSION JOINT WHERE SLABS ARE POURED AGAINST VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS AND AS SPECIFIED ON PLANS OR 25'-0\"/>

Detail - Typ. Concrete Joints

1 1/2" = 1'-0"

SEE PUMP ROOM PLAN

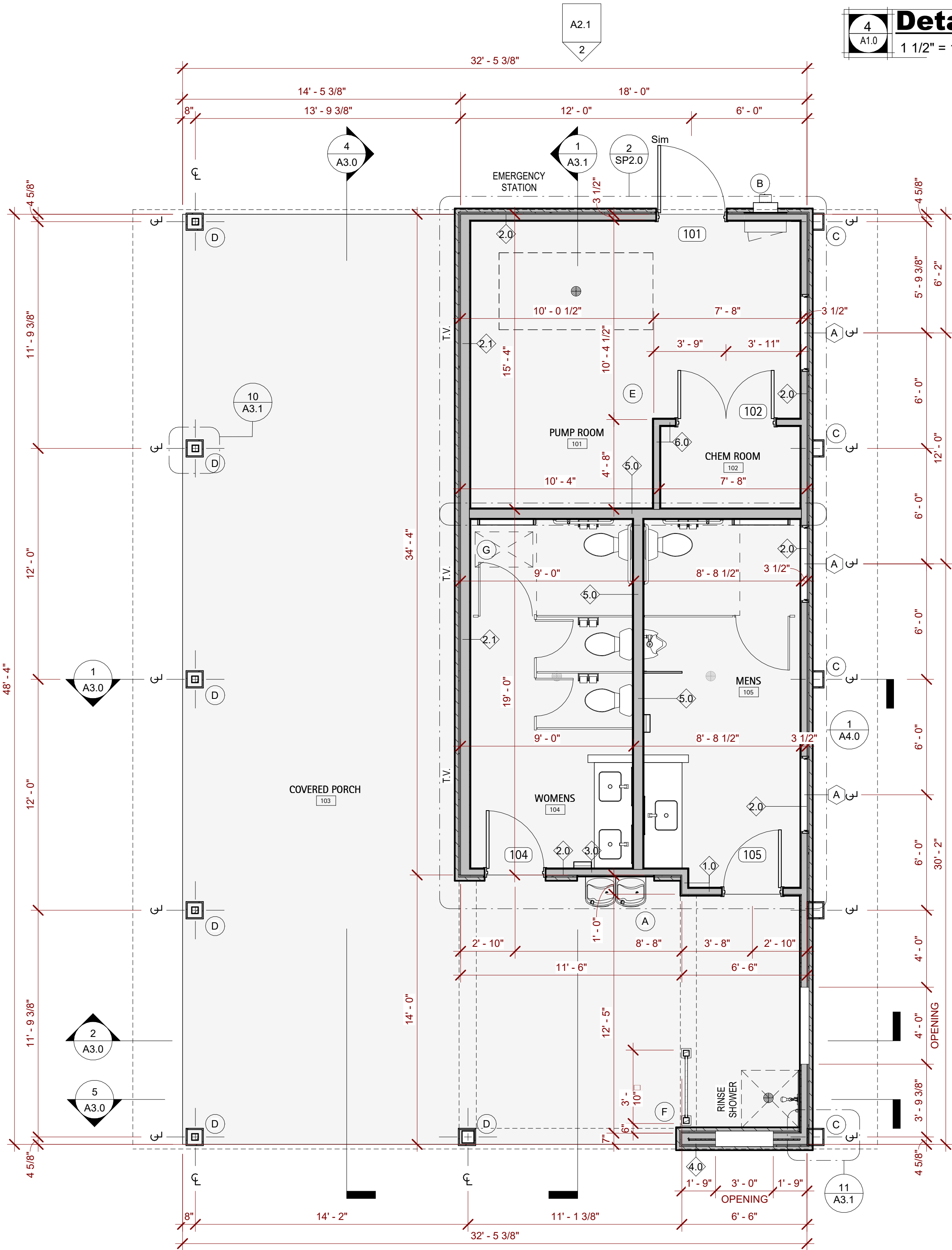
SIDE "B" - GRATE SIZE



NOTE: SEE POOL PLANS FOR SUMP PIT MIN. SIZE

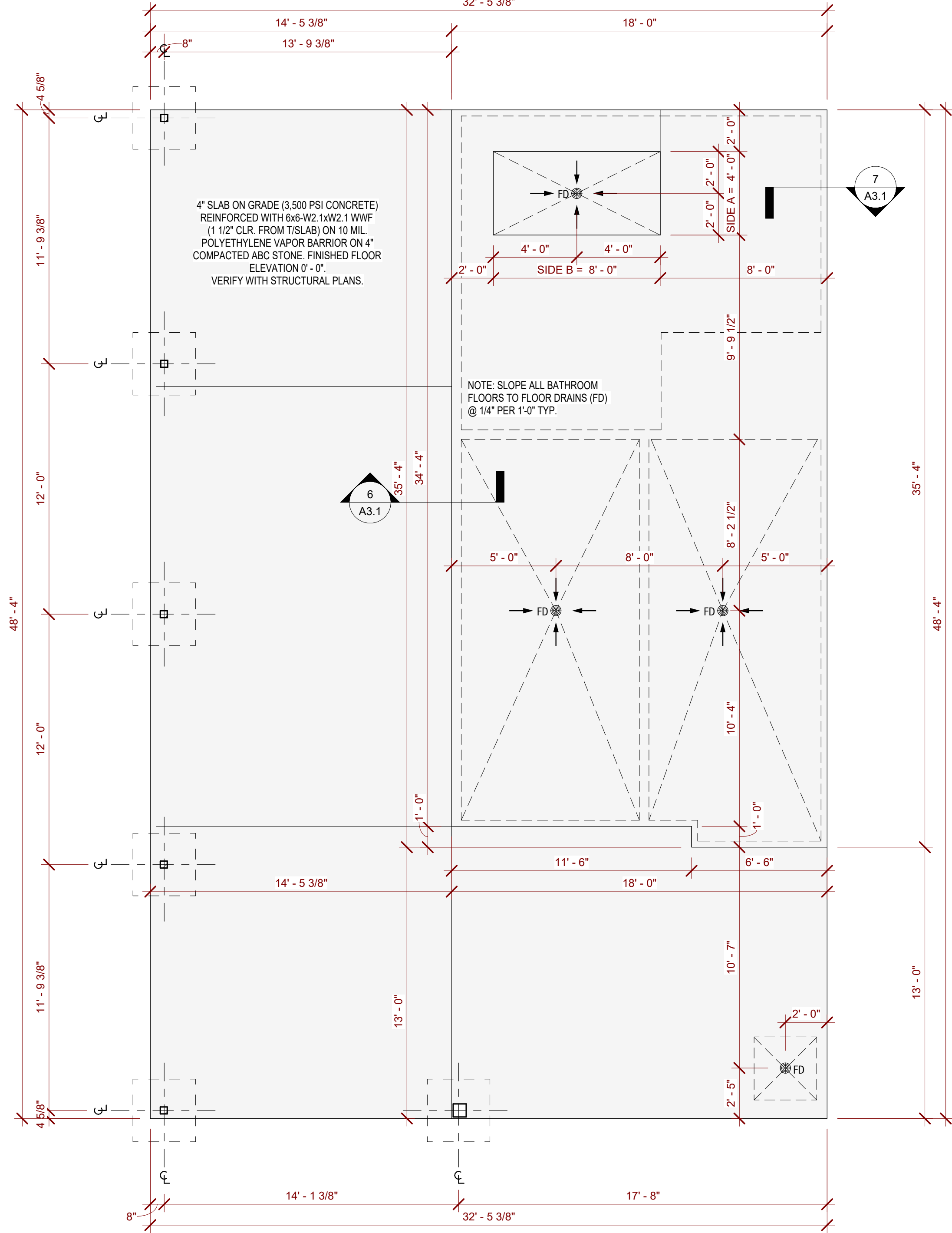
Detail - Sump Pit

1/2" = 1'-0"



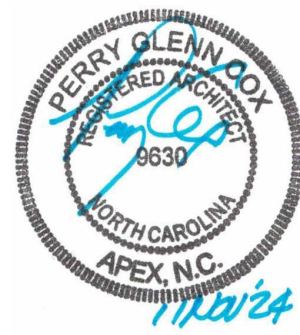
First Floor Plan

1/4" = 1'-0"



Foundation Plan

1/4" = 1'-0"

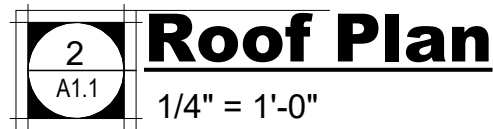


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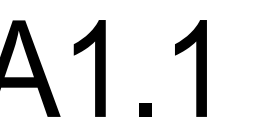
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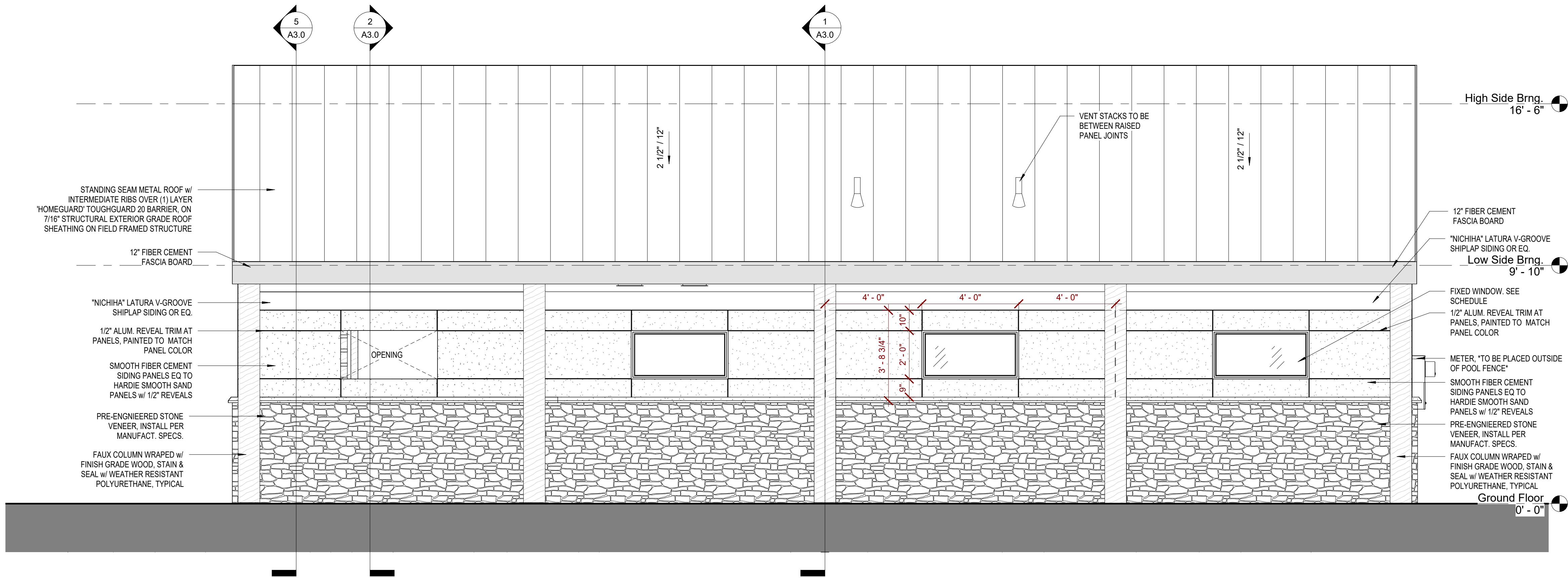
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1. Roof decks shall be covered with approved roof coverings secured to the building or structure in accordance with the NCSBC. Roof coverings shall be designed and installed in accordance with the building code and the approved manufacturer's instructions.
2. Crickets or saddles shall be installed on the ridge side of any chimney or penetration greater than 30 inches wide as measured perpendicular to the slope. Cricket or saddle coverings shall be sheet metal or of the same material as the roof covering.
3. Asphalt shingles shall only be used on roof slopes of 2:12 or greater.
4. Roof slopes from 2:12 to 4:12, underlayment shall be two layers applied in the following manner. Apply a minimum 19" wide strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide sheets of underlayment overlapping successive sheets 19 inches minimum and fasten in place.
5. Roof slopes from 4:12 or greater, underlayment shall be a minimum of one layer.
6. Flashing shall be installed at the wall and roof intersections, at gutters, and wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019g (No. 26 galvanized sheet)
7. Areas prone to ice formation along eaves causing a backup of water shall have an ice barrier that consists of at least (2) two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet. Extend ice barrier min. 18" each side of valleys and other ice prone areas.

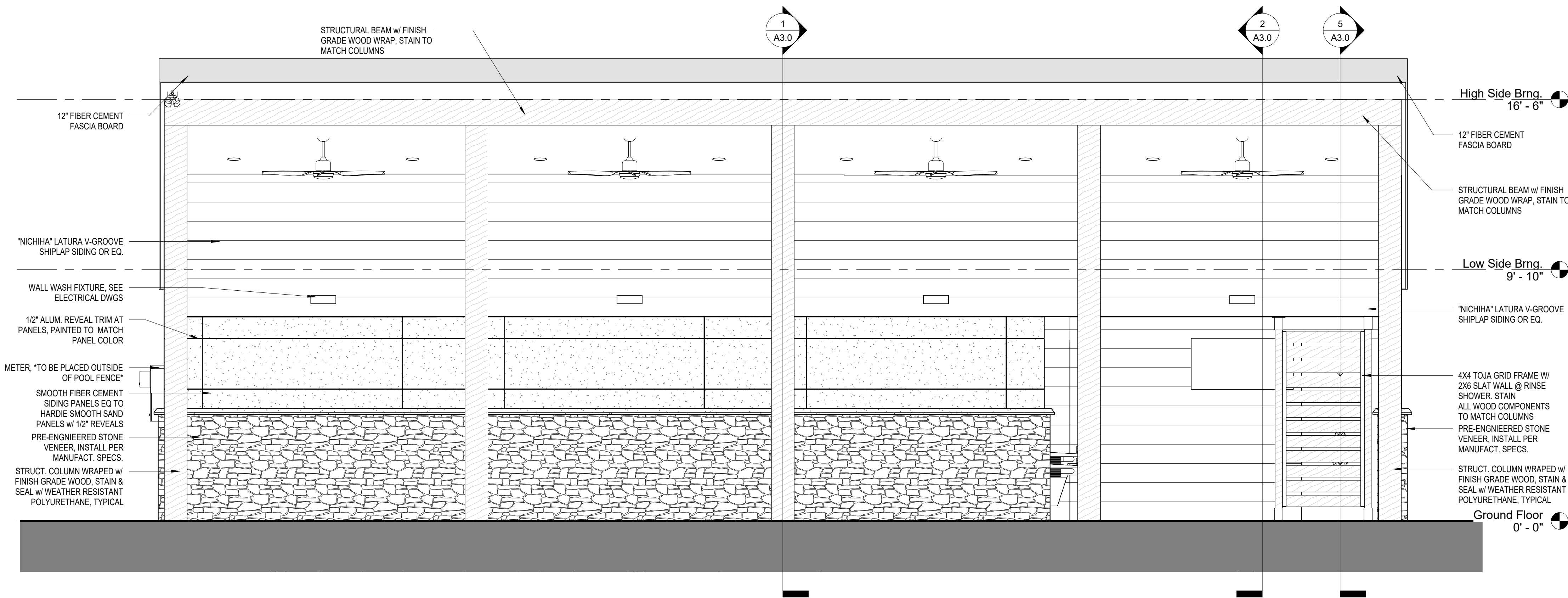


1. 5/8" GWB typical - U.N.O. - Mold tough in Wet areas
2. Height of ceilings shall be measured from top of slab to finish face of GWB or face of ceiling grid as indicated on the Reflected Ceiling Plan, UON.
3. All light fixtures are to be installed according to the Electrical Plans.
4. Light fixture types, quantities and locations only are noted on Architectural Reflected Ceiling Plans. Specifications, switching, exit lights, emergency lighting, life safety equipment, and circuiting are noted on Engineering documents.
5. Dimensioned light fixtures are from finished face of partitions to centerline of fixture and from centerline of fixture to centerline of fixture. All fixtures shall be installed in center of ceiling the unless noted otherwise. Any discrepancies with light fixtures, switches, thermostats, or diffusers as to location between architectural and engineering drawings or between the drawings and existing field conditions shall be clarified with the Architect before proceeding with installation.

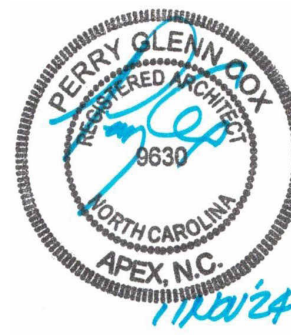




Elevation - Front
3/8" = 1'-0"



Elevation - Rear
3/8" = 1'-0"



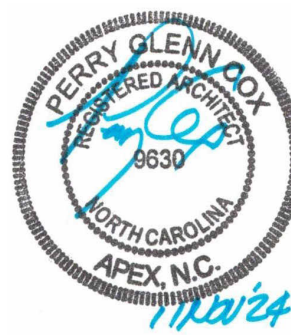
STATION POINTE AMENITY

DRB GROUP
ANGIER, NORTH CAROLINA

DATE	
REVISION	
NO.	

EXTERIOR
ELEVATIONS

A2.0



STATION POINTE AMENITY

DRB GROUP
ANGIER, NORTH CAROLINA

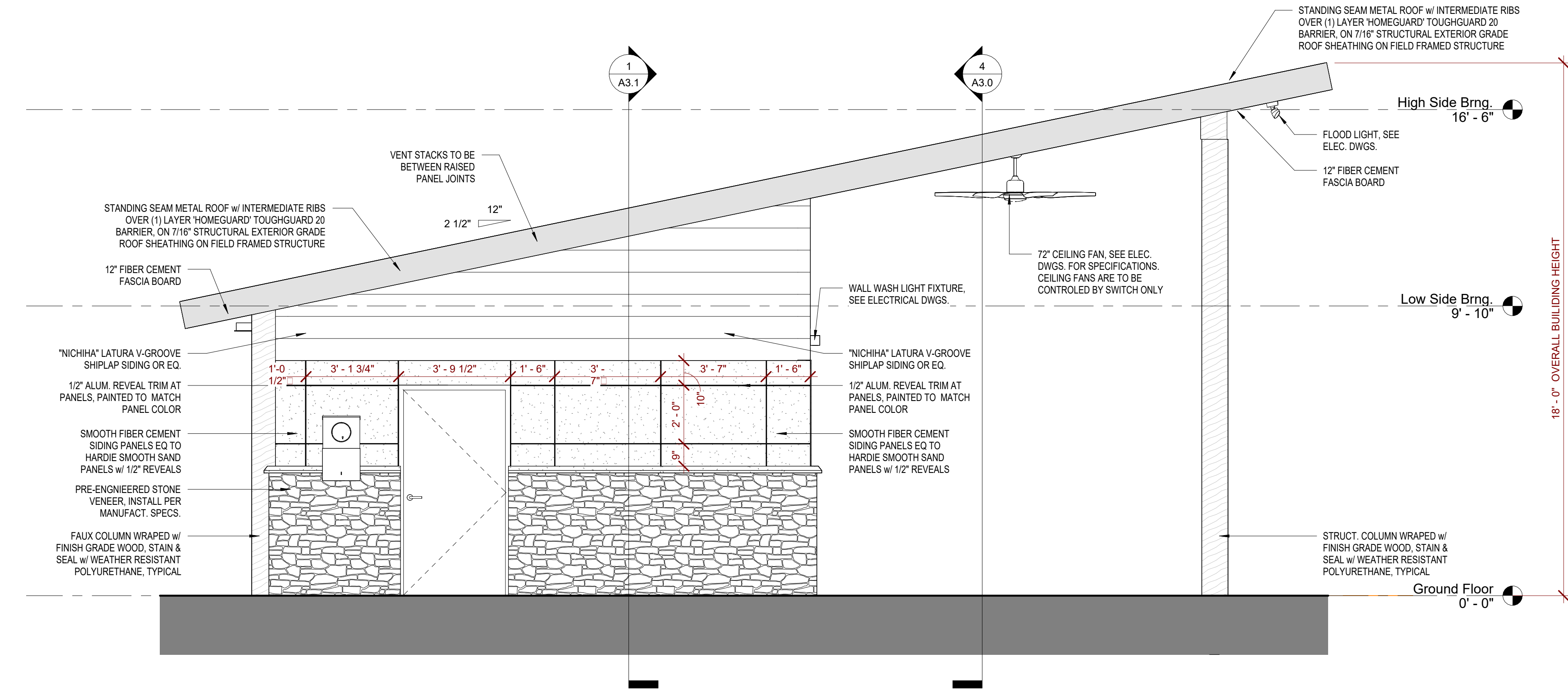
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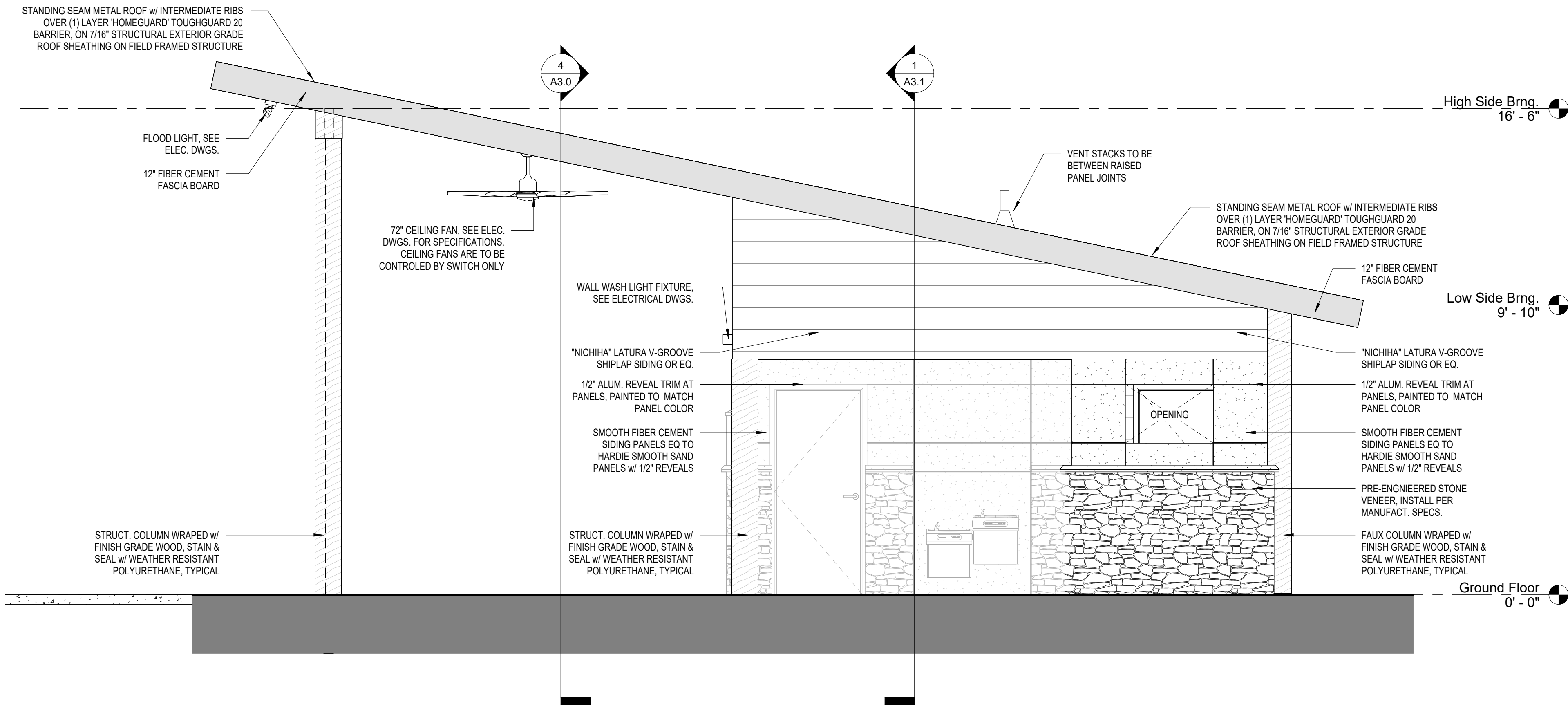
100% I.F.P.

EXTERIOR
ELEVATIONS

A2.1



2
A2.1
Elevation - Right
3/8" = 1'-0"

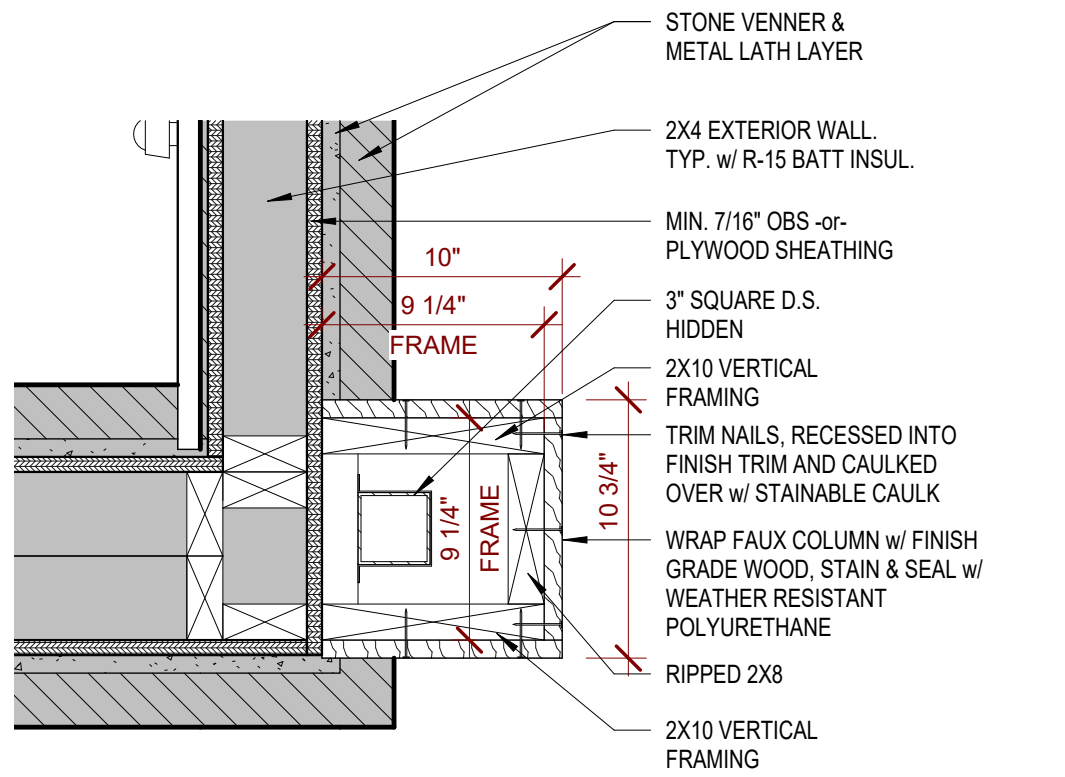


1
A2.1
Elevation - Left
3/8" = 1'-0"

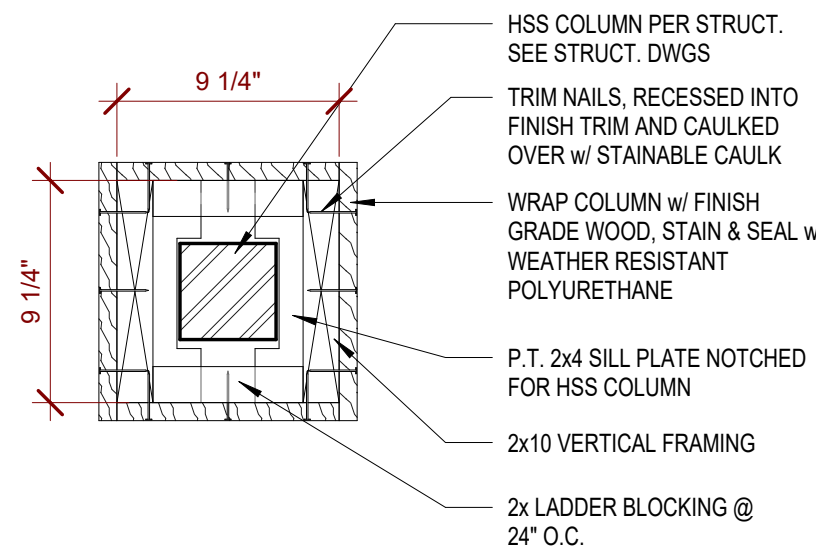


NO.	REVISION	DATE

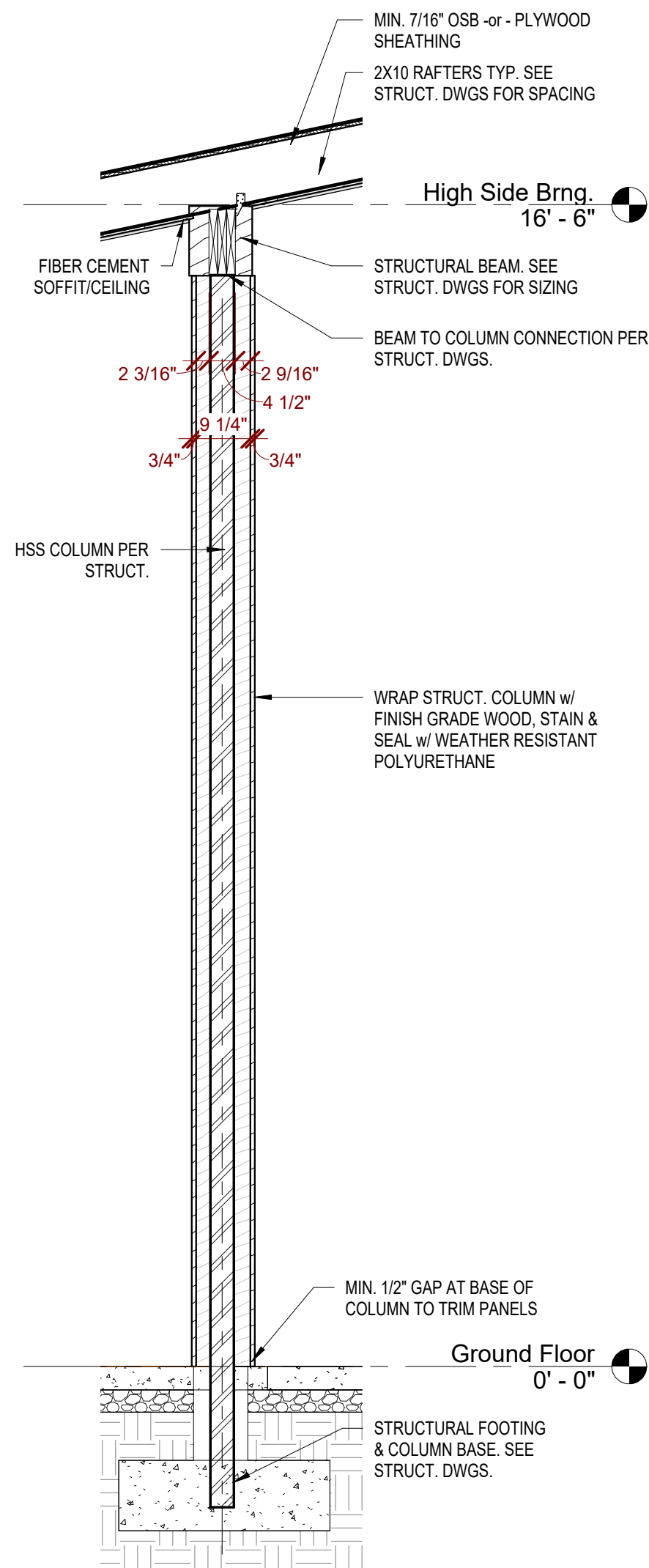
PROJECT #:	2024020
DATE ISSUED:	11/11/2024
DRAWING BY:	JGM
CHECKED BY:	BSJ



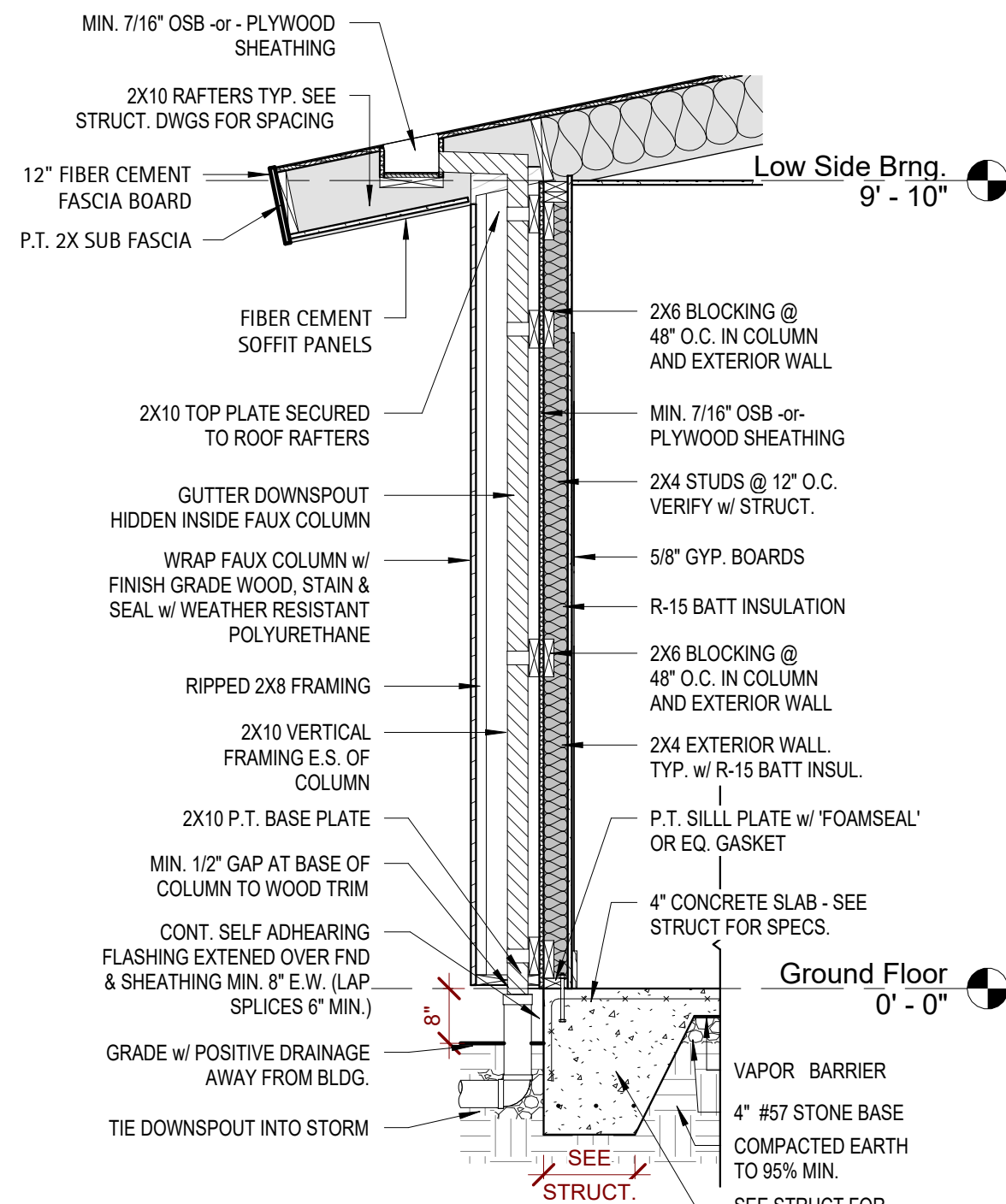
Detail - Faux Column Frame
1 1/2" = 1'-0"



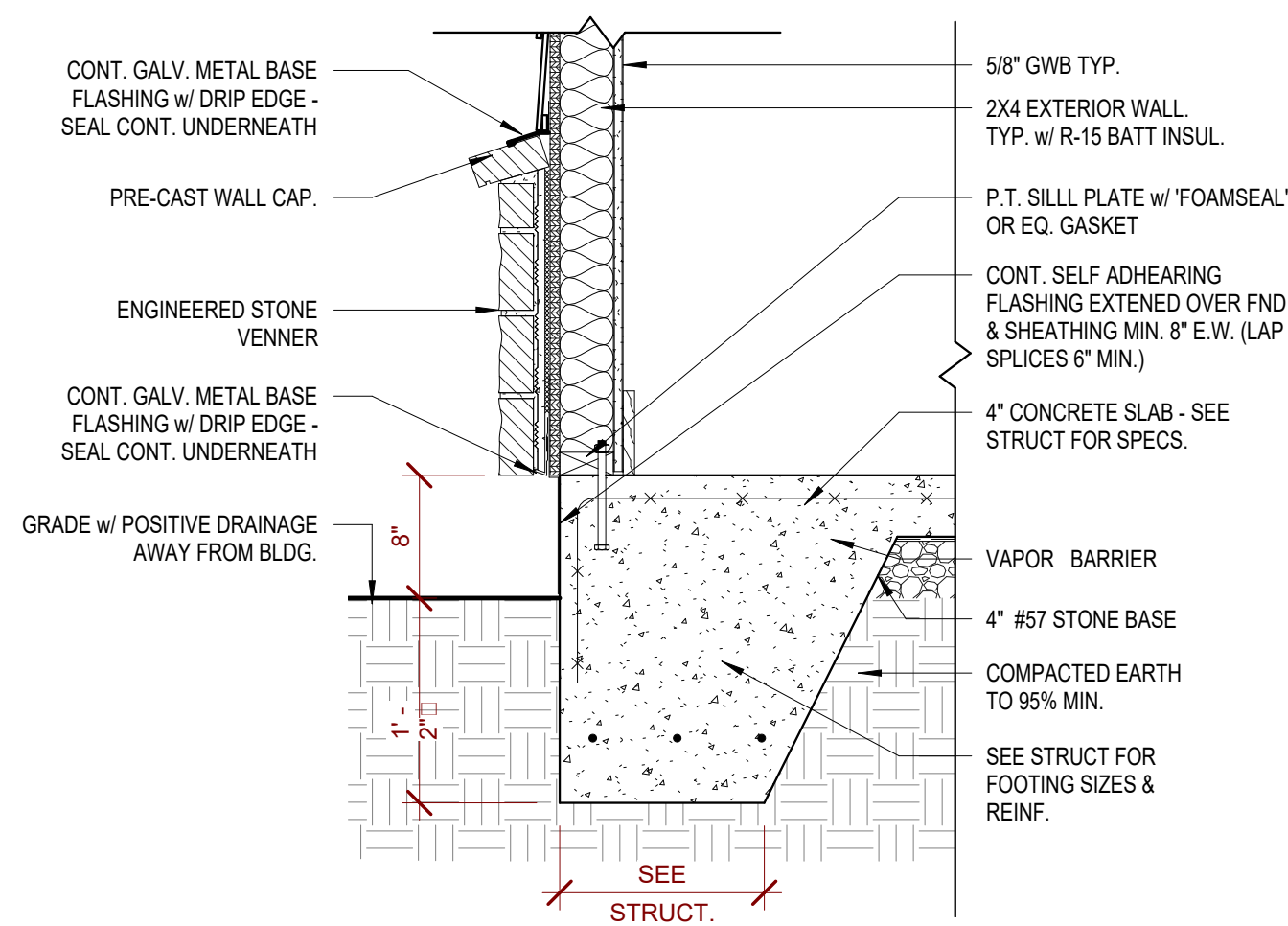
Detail - Structural Column
1 1/2" = 1'-0"



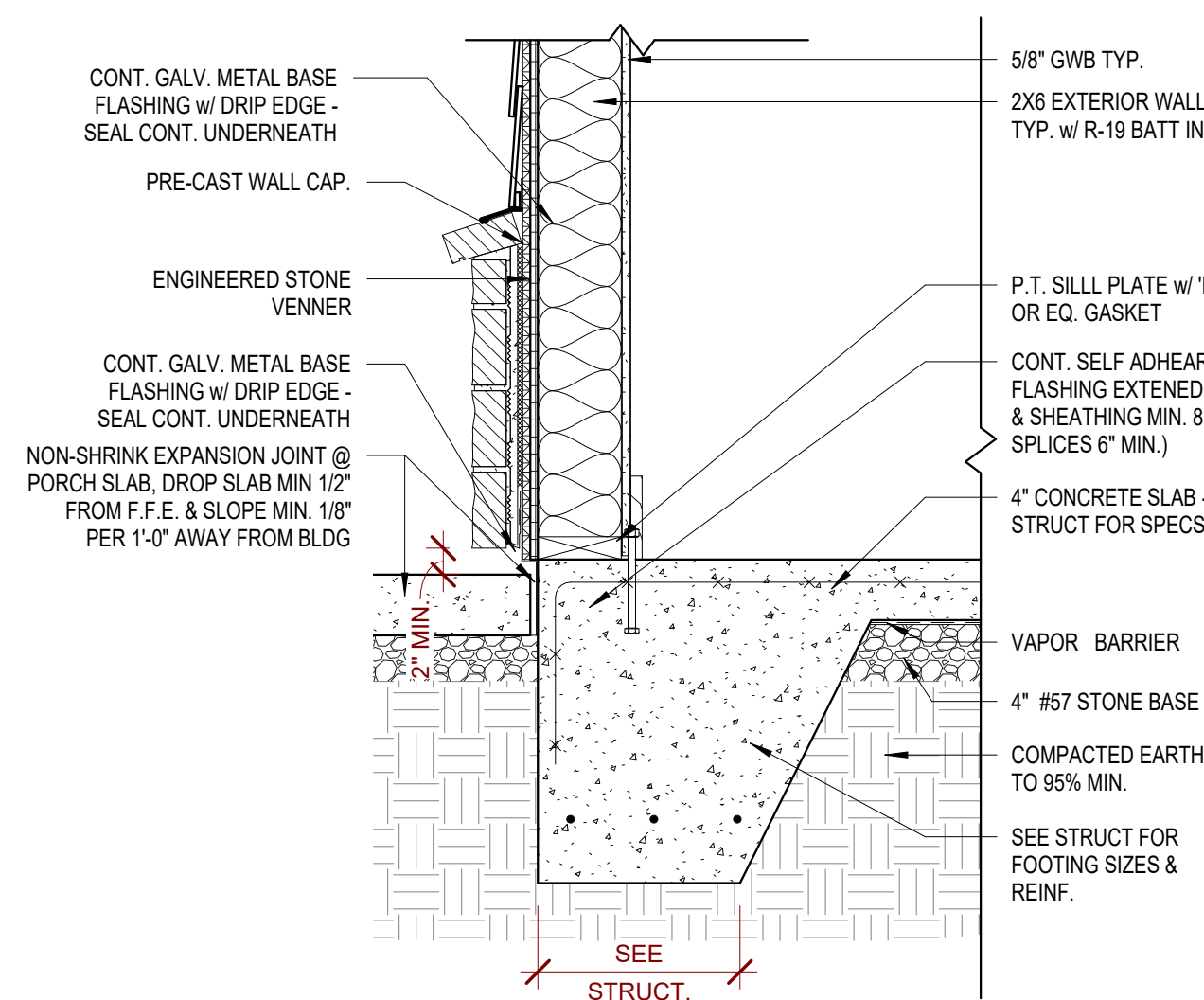
Detail - Structural Column
1/2" = 1'-0"



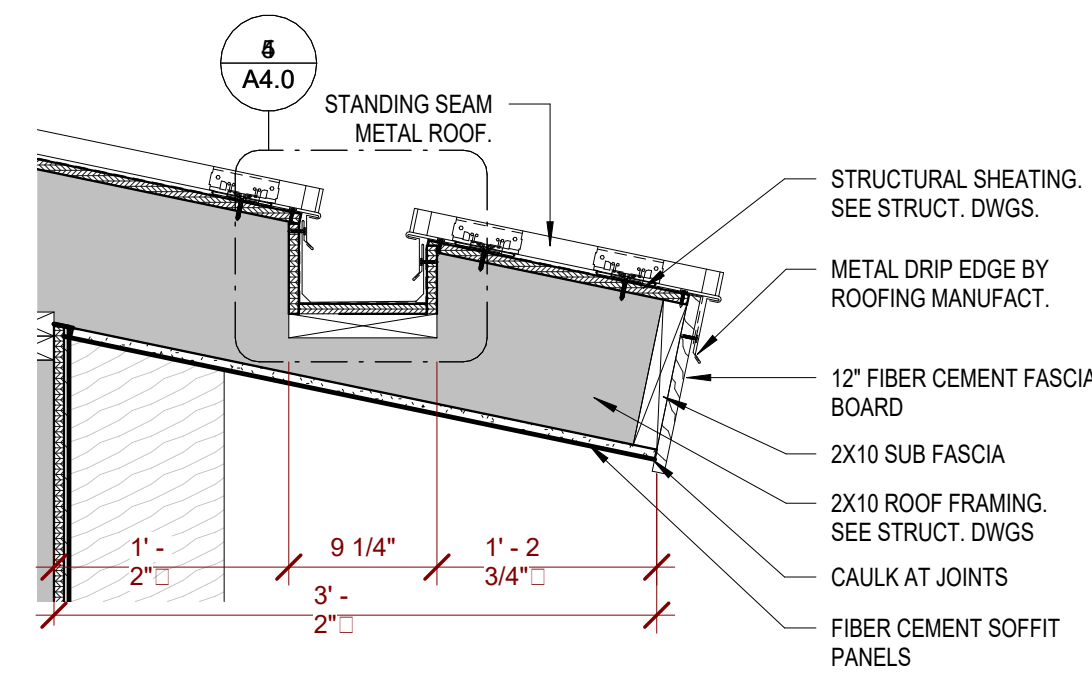
Section - Faux Column
1/2" = 1'-0"



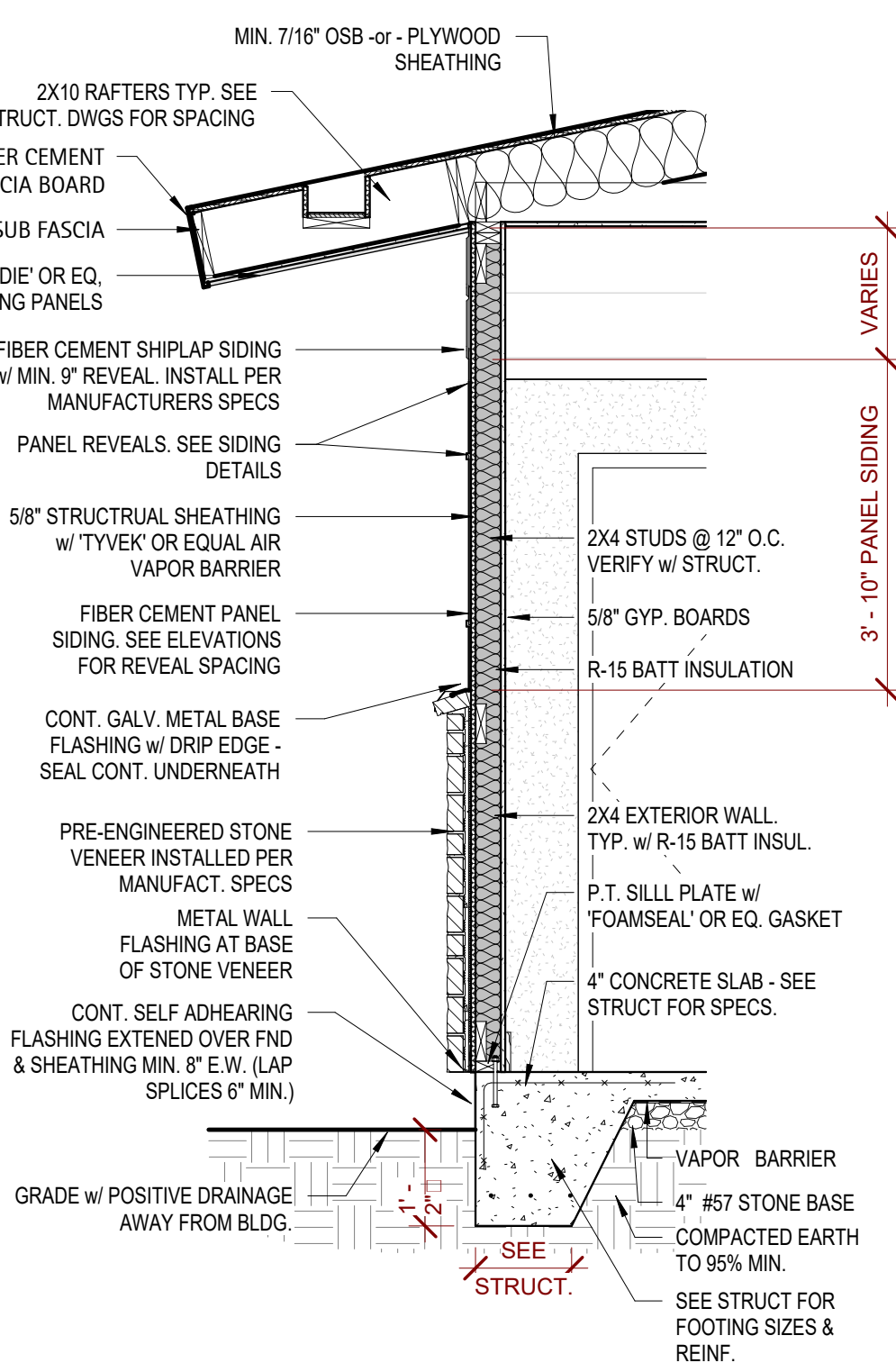
Detail - Turn Down Slab @ Grade
1" = 1'-0"



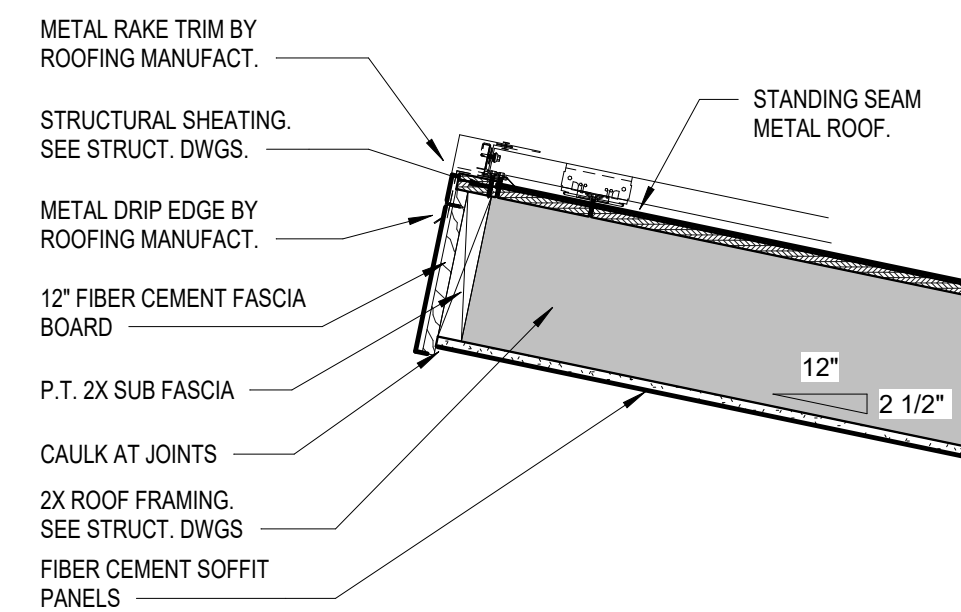
Detail - Turn Down Slab @ Hardscapes
1" = 1'-0"



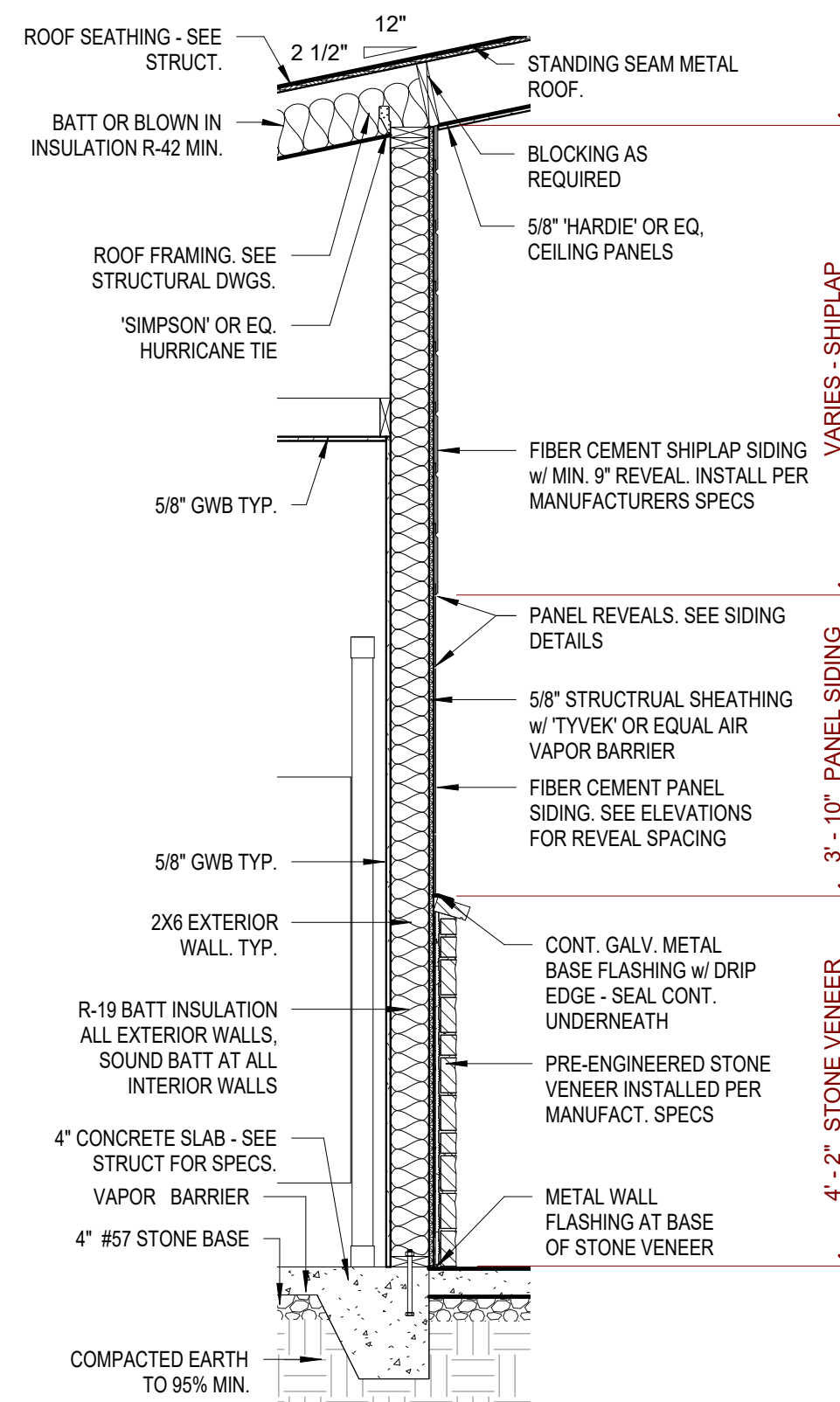
Detail - Low Side Fascia
1" = 1'-0"



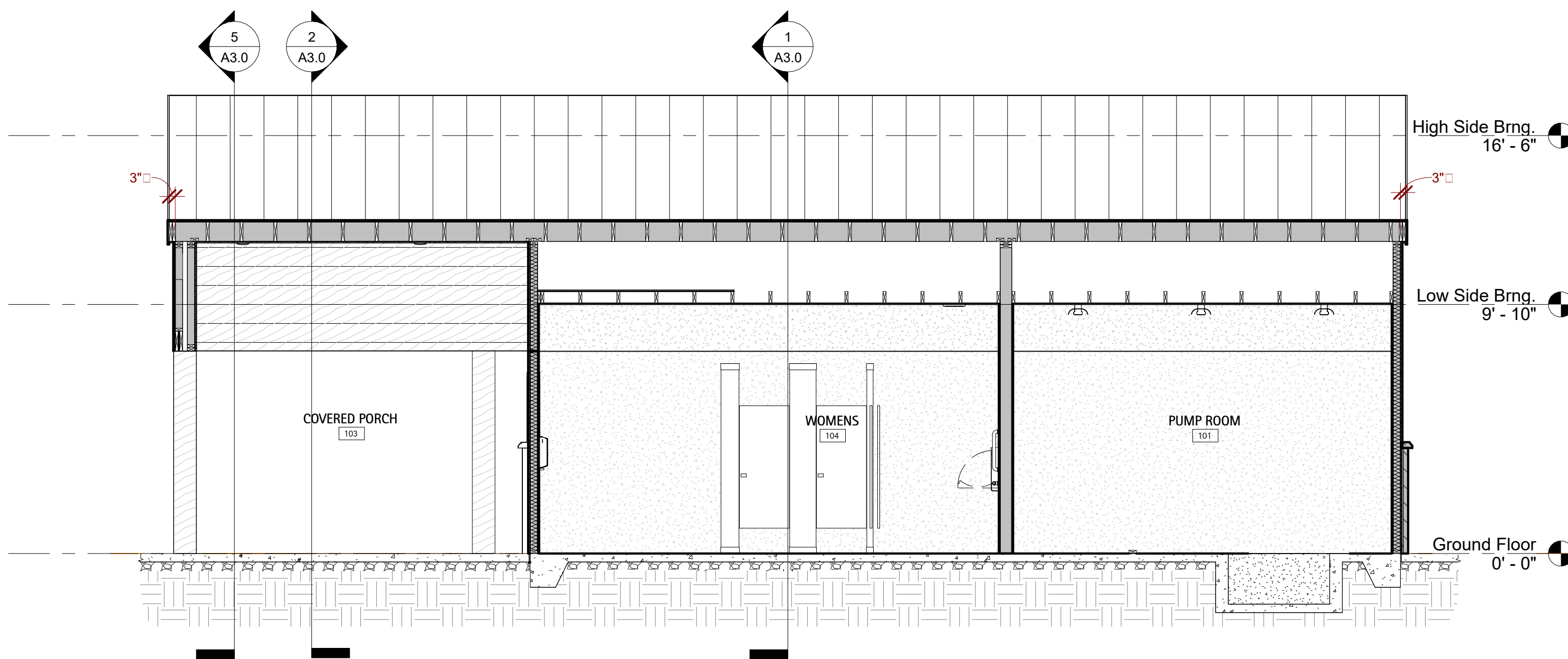
Section - Low Bearing Wall
1/2" = 1'-0"



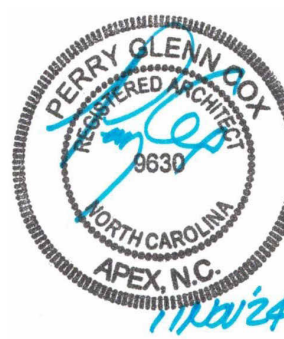
Detail - High Side Fascia
1" = 1'-0"



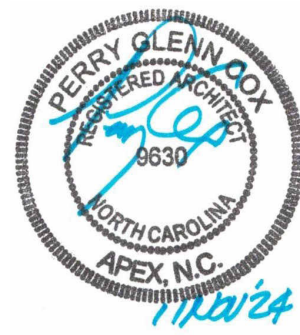
Section - High Bearing Wall
1/2" = 1'-0"



Section - Facing Rear
1/4" = 1'-0"



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STATION POINTE AMENITY

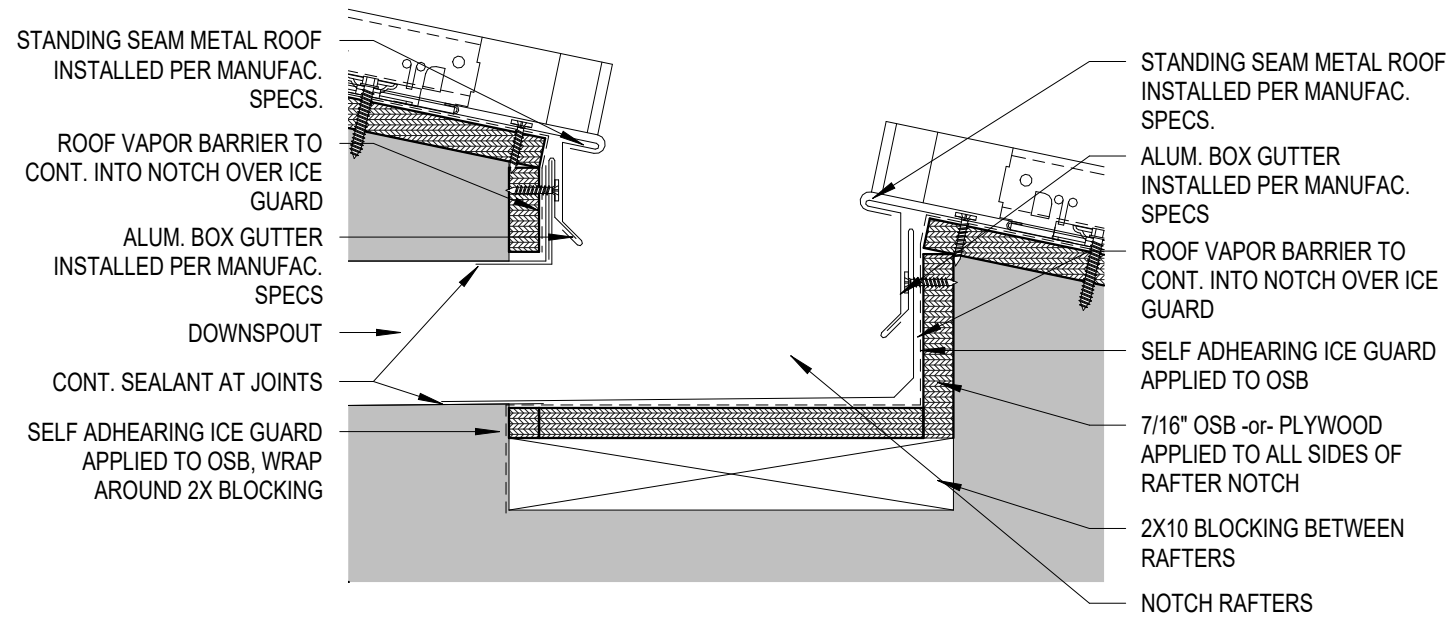
DRB GROUP
ANGIER, NORTH CAROLINA

NO.	REVISION	DATE

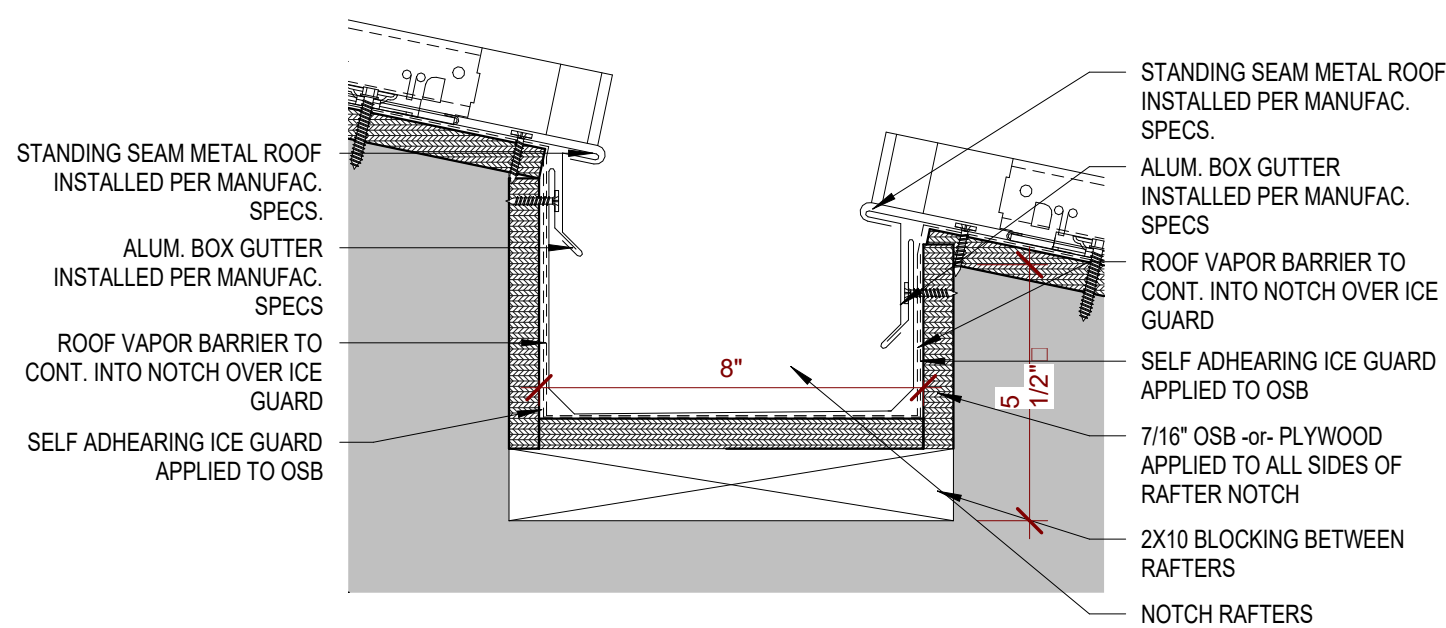
PROJECT #: 2024020
DATE ISSUED: 11/11/2024
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CHECKED BY: DSC/PGC
100% I.F.P.

ENLARGED
PLANS &
DETAILS

A4.0

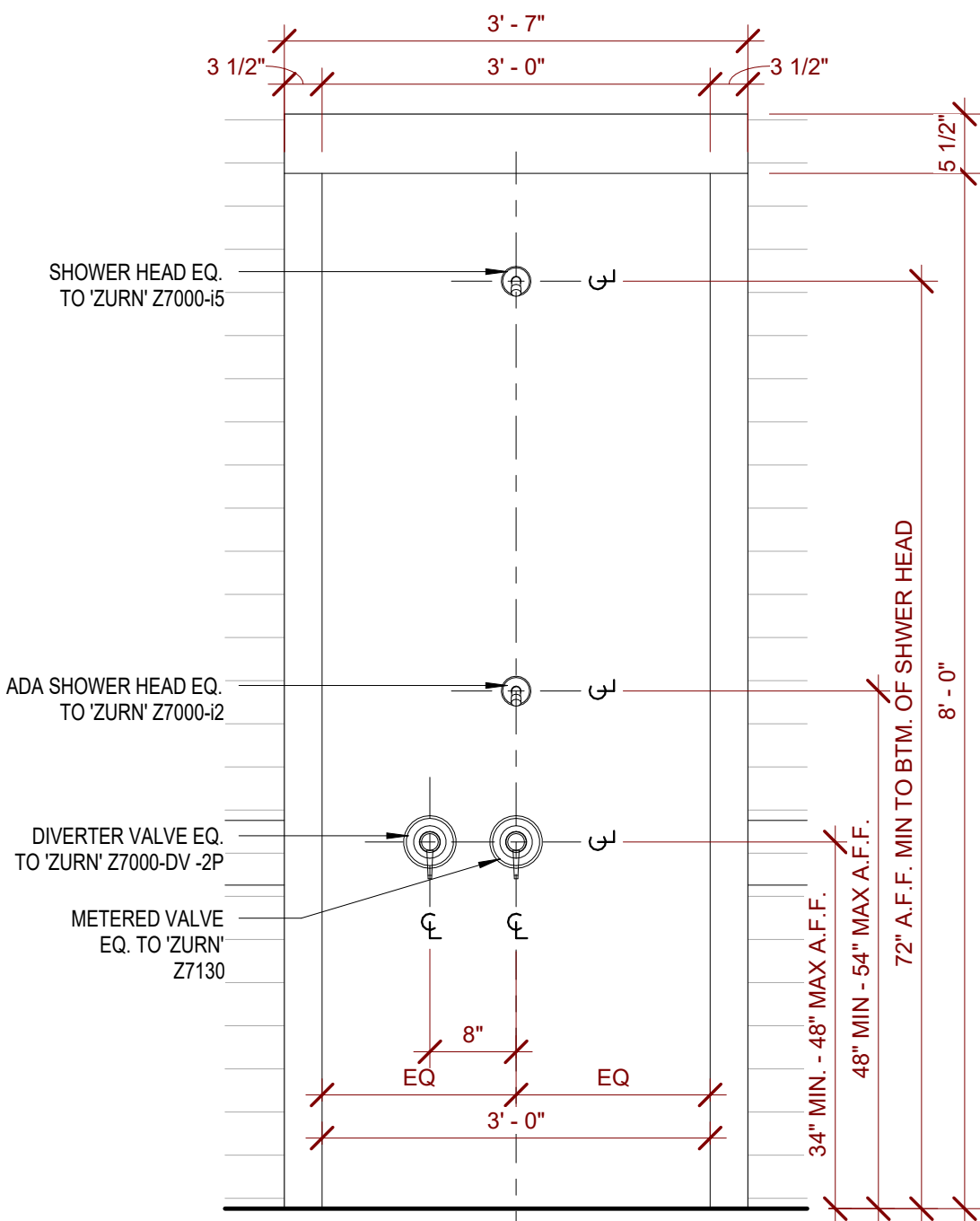


5
A4.0
Detail - Downspout @ Gutter
3" = 1'-0"



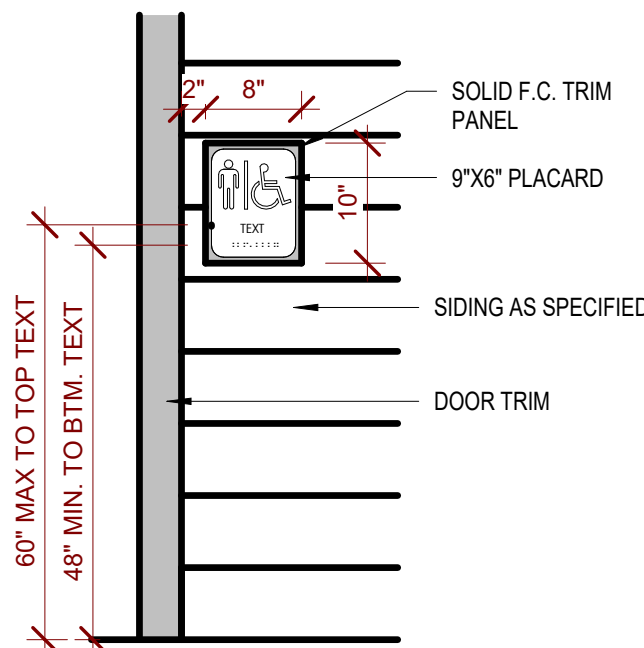
4
A4.0
Detail - Recessed Box Gutter
3" = 1'-0"

TOILET ACCESSORIES			
MARK	ITEM	MANUFACTURER	MODEL NUMBER
TTD	SURFACE MOUNTED DUAL ROLL TOILET TISSUE HOLDER	AMERICAN SPECIALTIES, INC	0715
GB	GRAB BAR - 1 1/2" DIA., S/S, PREENED GRIP, SNAP FLANGE 36", 42" & 18"	AMERICAN SPECIALTIES, INC	3800 TYPE-01
MIR	INTERLOK S.S. FRAMED MIRROR W/ SHATTER RESISTANT GLASS	AMERICAN SPECIALTIES, INC	0600
CH	SURFACE MOUNTED COAT HOOK	AMERICAN SPECIALTIES, INC	0714
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER	AMERICAN SPECIALTIES, INC	0210
CS	SURFACE MOUNTED BABY CHANGING STATION	AMERICAN SPECIALTIES, INC	9012
TP	TOILET PARTITION - FLOOR SUPPORTED W/ HEADRAIL, POWDER COATED STEEL FINISH	GENERAL PARTITIONS	SERIES 40-5

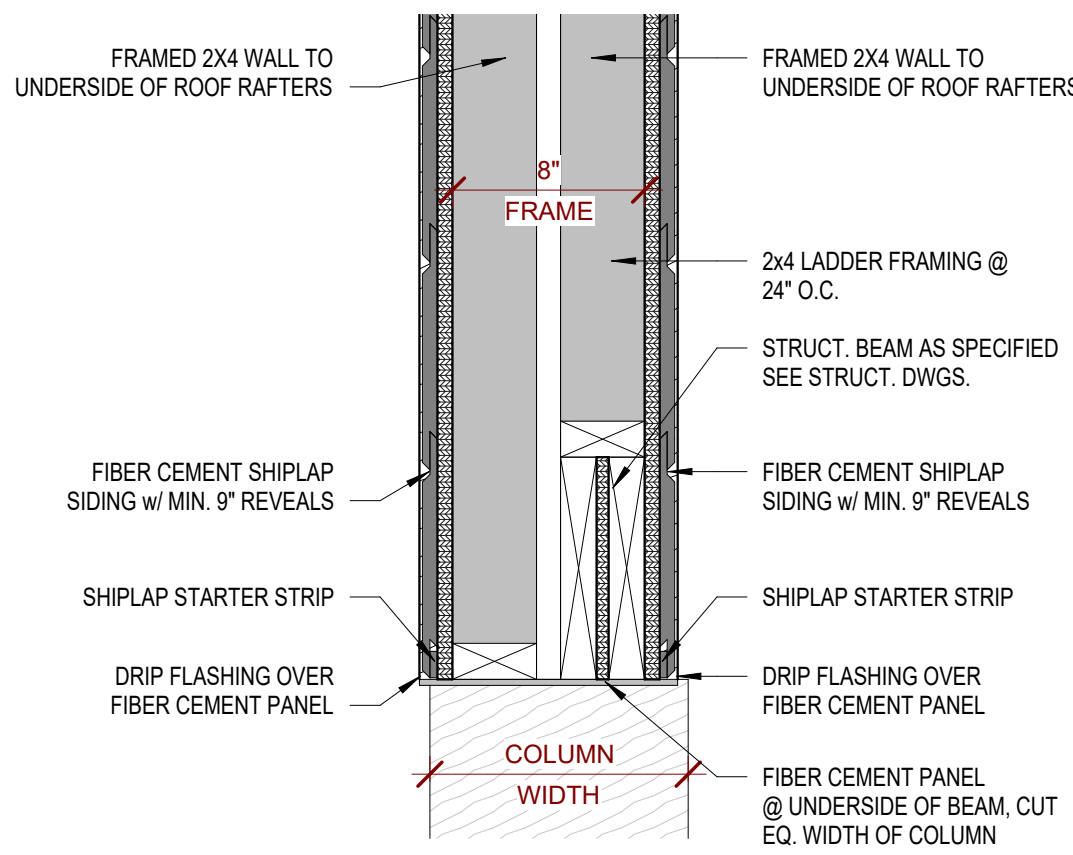


1011.7 OUTDOOR RINSE SHOWERS. OUTDOOR RINSING SHOWERS SHALL PROVIDE AT LEAST TWO FIXED SHOWER HEADS. ONE FIXED SHOWER HEAD SHALL BE 48 INCHES (1220 MM) MINIMUM AND 54 INCHES (1370 MM) MAXIMUM ABOVE THE GROUND SURFACE, AND ONE FIXED SHOWER HEAD SHALL BE 72 INCHES (1830 MM) MINIMUM ABOVE THE GROUND SURFACE. **EXCEPTION:** A HAND HELD SHOWER SPRAY UNIT COMPLYING WITH 608.6 SHALL BE PERMITTED INSTEAD OF THE FIXED SHOWER HEAD 48 INCHES (1220 MM) MINIMUM AND 54 INCHES (1370 MM) MAXIMUM ABOVE GROUND SURFACE

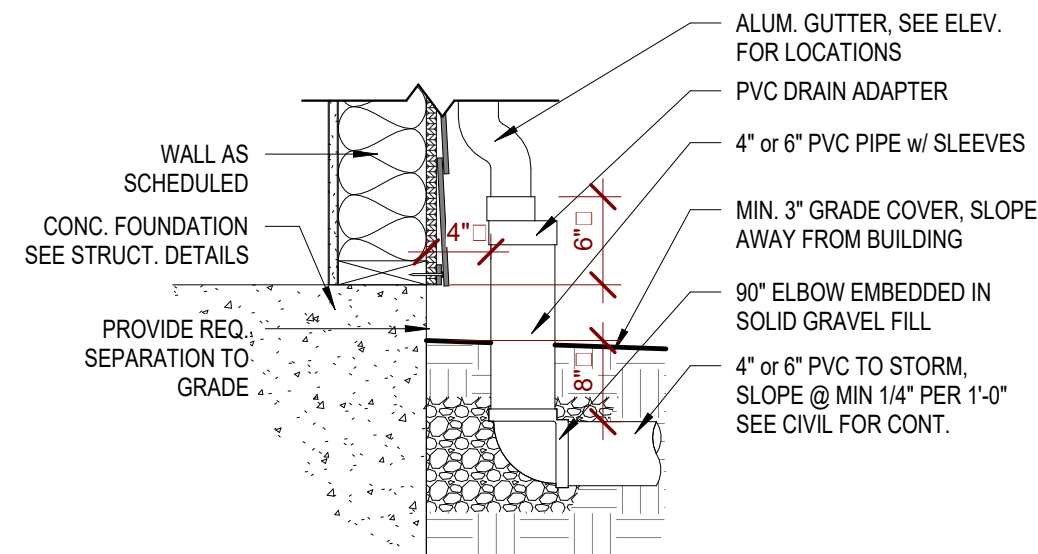
8
A4.0
Detail - Rinse Shower
3/4" = 1'-0"



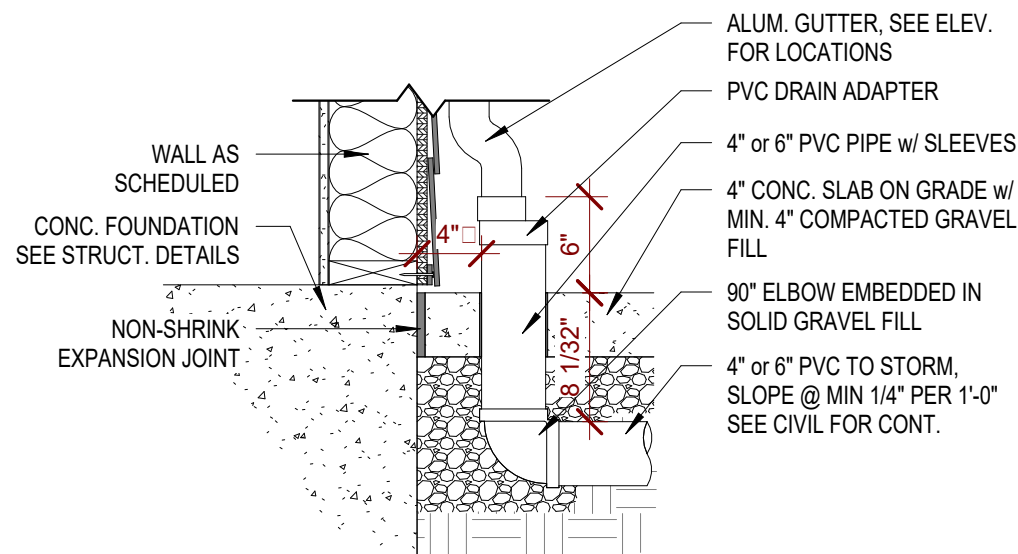
7
A4.0
Detail - Exterior Sign Trim
3/4" = 1'-0"



3
A4.0
Detail - Drop Beam
1 1/2" = 1'-0"

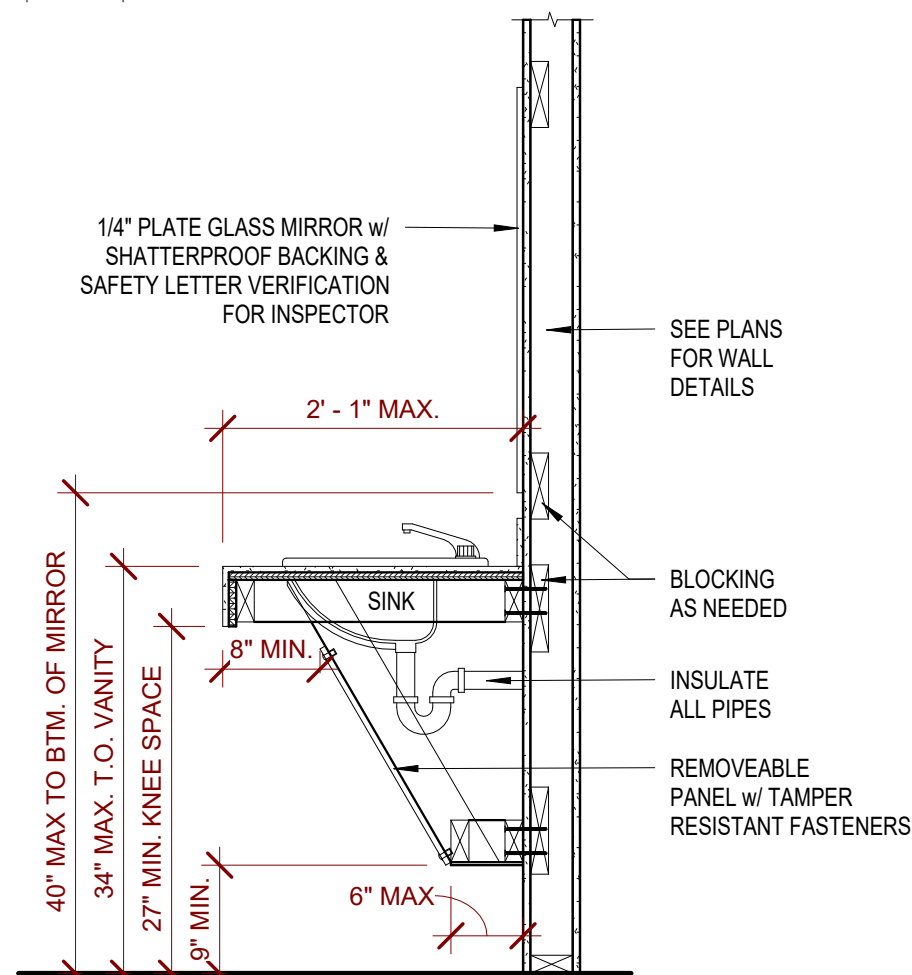


CONNECTION @ GRADE

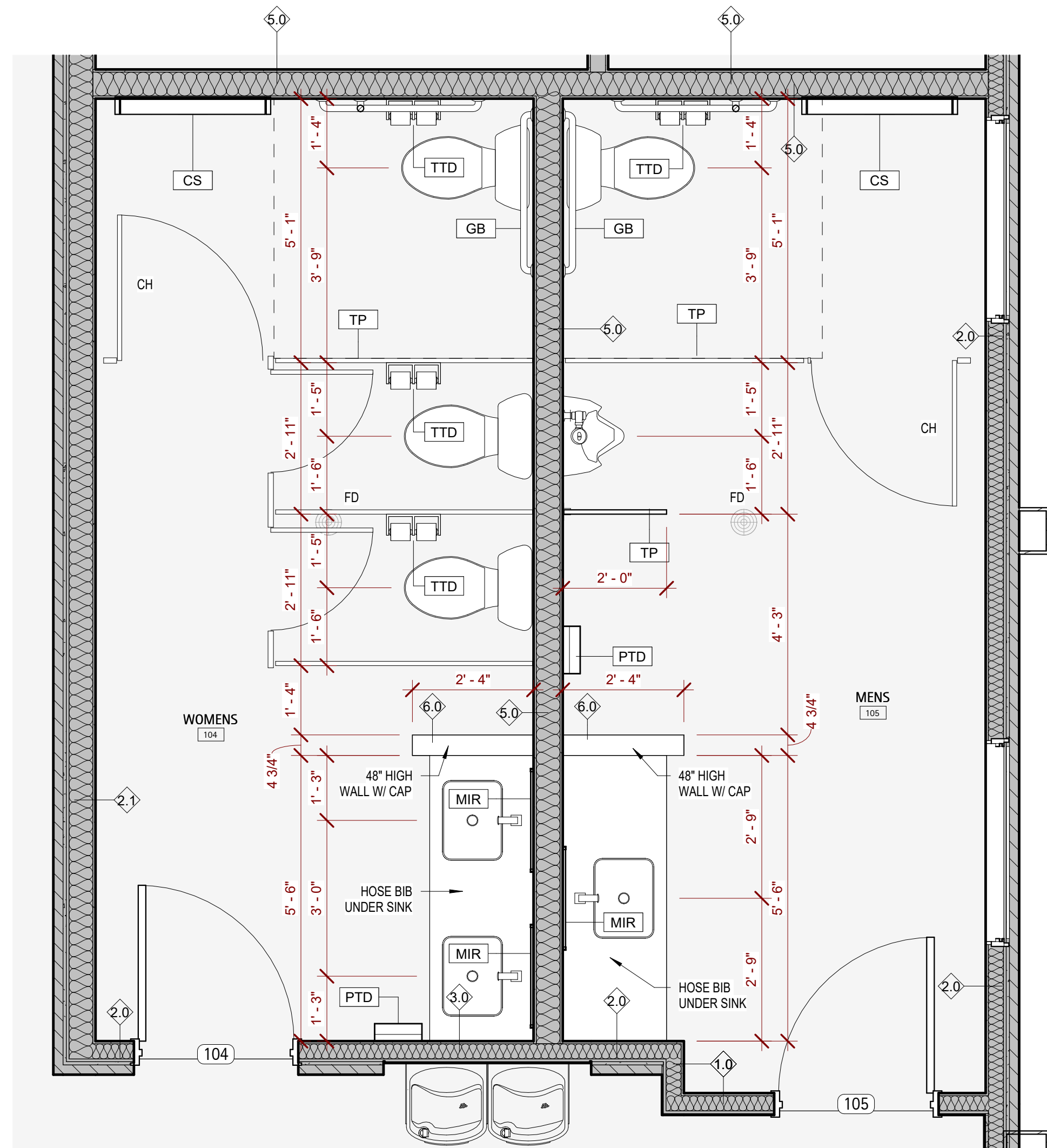


CONNECTION @ SLABS

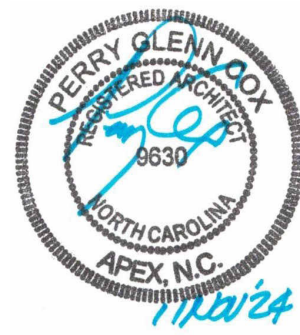
6
A4.0
Detail - Downspout to Storm
1" = 1'-0"



2
A4.0
Detail - Typical Vanity Section
3/4" = 1'-0"



1
A4.0
Enlarged Restroom Plan
1/2" = 1'-0"



STATION POINTE AMENITY
DRB GROUP
ANGIER, NORTH CAROLINA

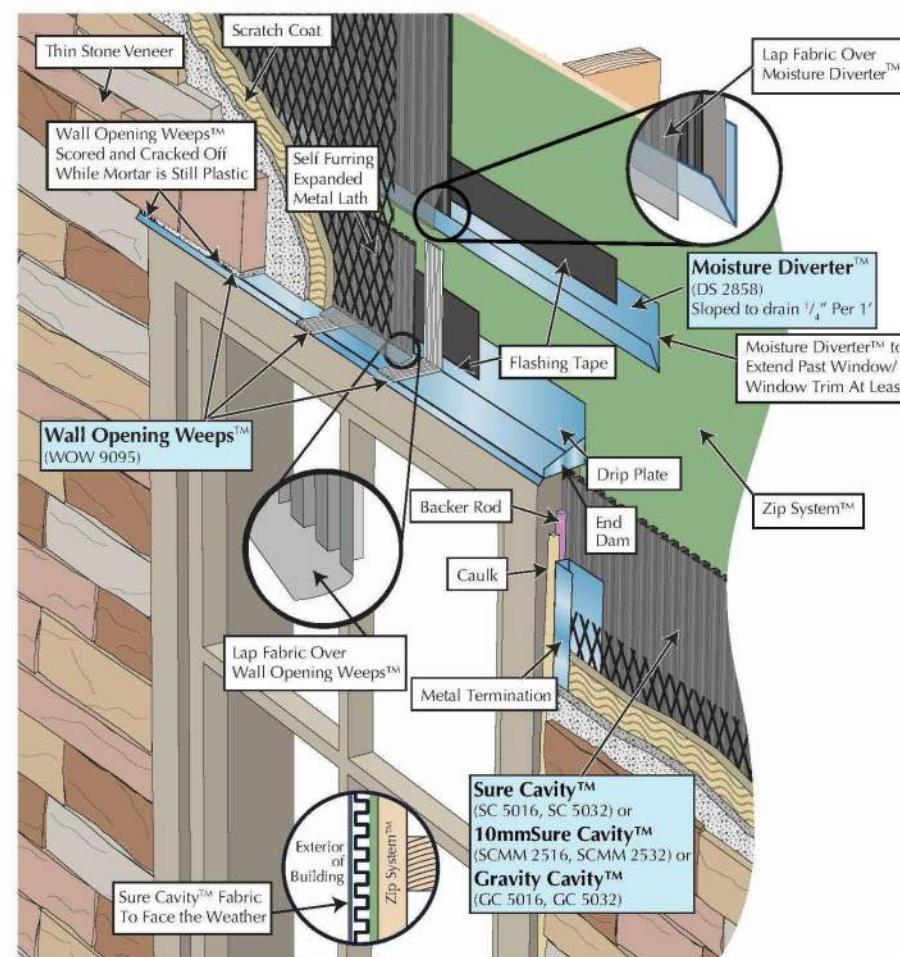
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DRAWING BY:	JGM
CHECKED BY:	DSC/PBC
	100% I.F.P.

GENERAL
BUILDING
DETAILS

A5.0

Thin Stone Veneer with Drainage Plane and Weeps on Zip System™
with Moisture Diverter™ at Top of Window

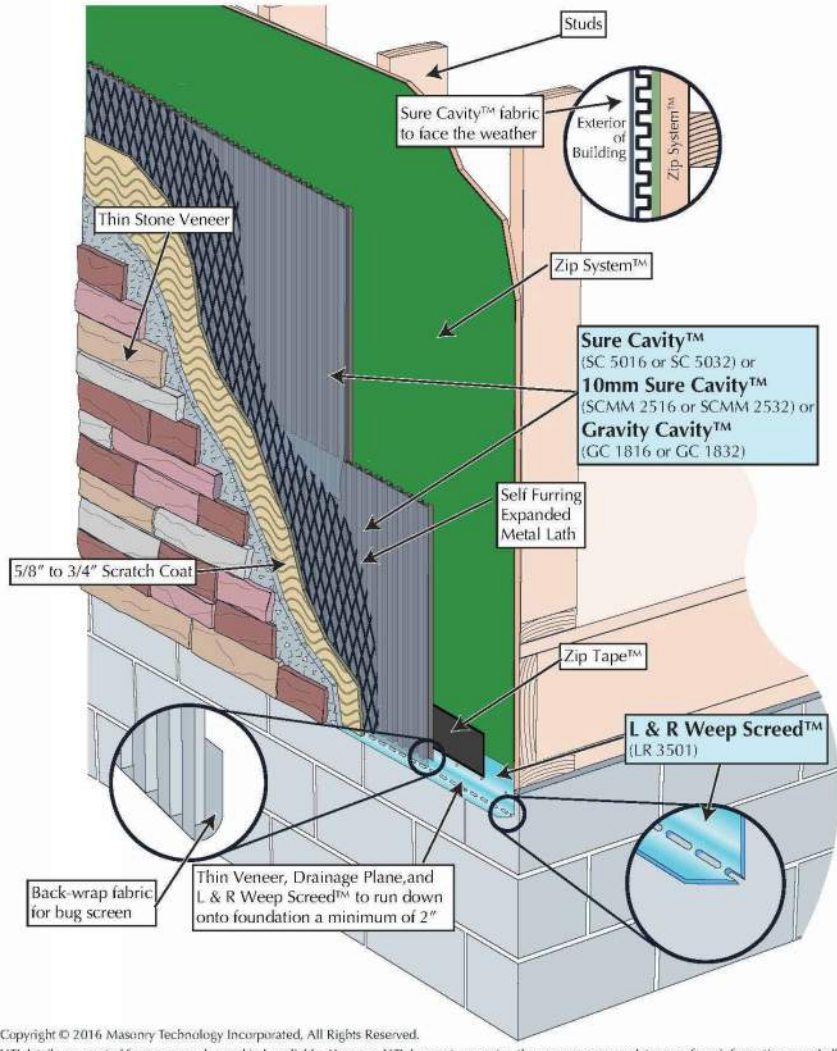
Sure Cavity™ (SC 5016 or SC 5032) or 10mm Sure Cavity™ (SCMM 2516 or SCMM 2532) or Gravity Cavity™ (GC 1816 or GC 1832) and Wall Opening Weeps™ (WOW 9095) and Moisture Diverter™ (WSD 2858)



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L&R Weep Screed at Bottom of Thin Stone Veneer
Wall With Zip System™

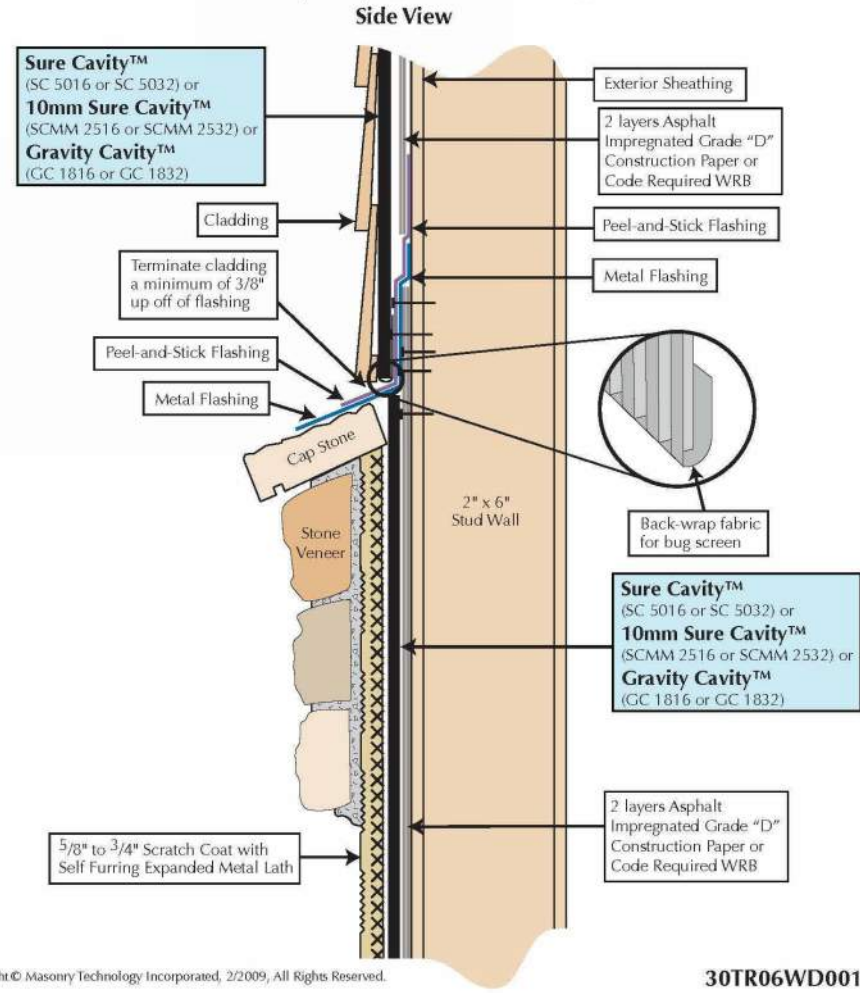
Sure Cavity™ (SC 5016 or SC 5032) or 10mm Sure Cavity™ (SCMM 2516 or SCMM 2532) or Gravity Cavity™ (GC 1816 or GC 1832) and L&R Weep Screed™ (LR 3501)



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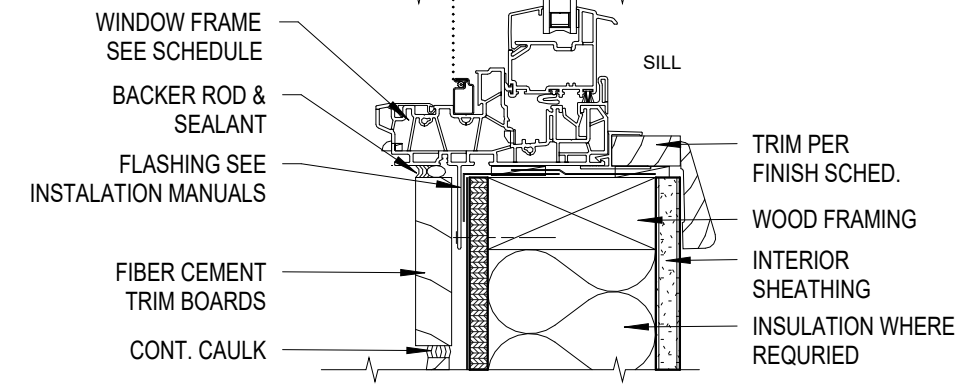
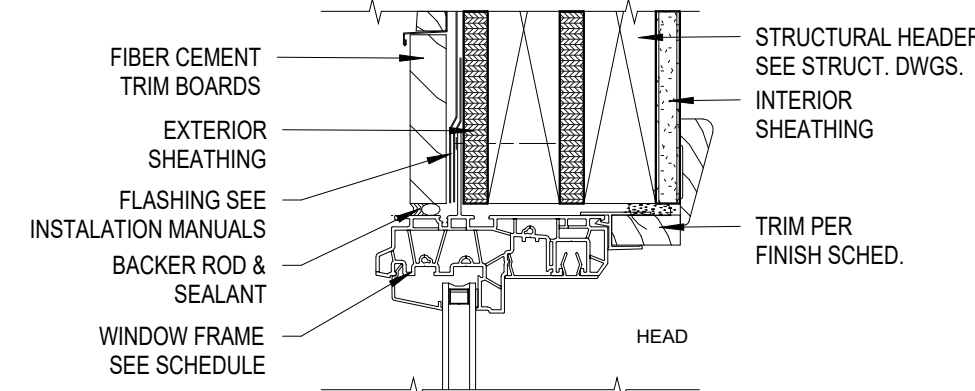
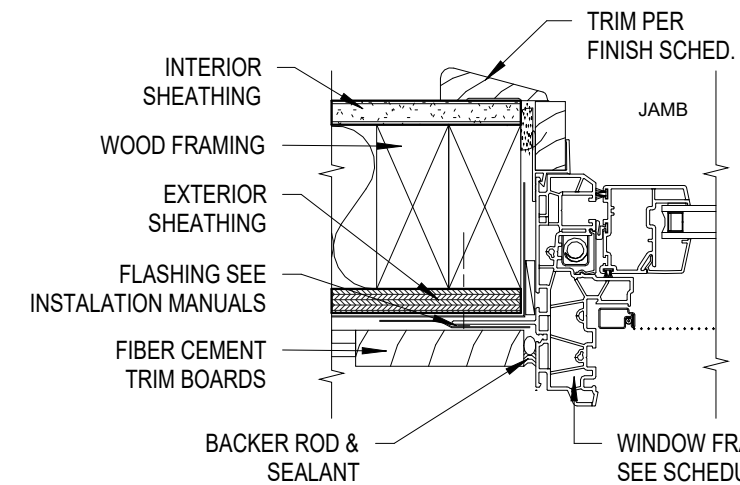
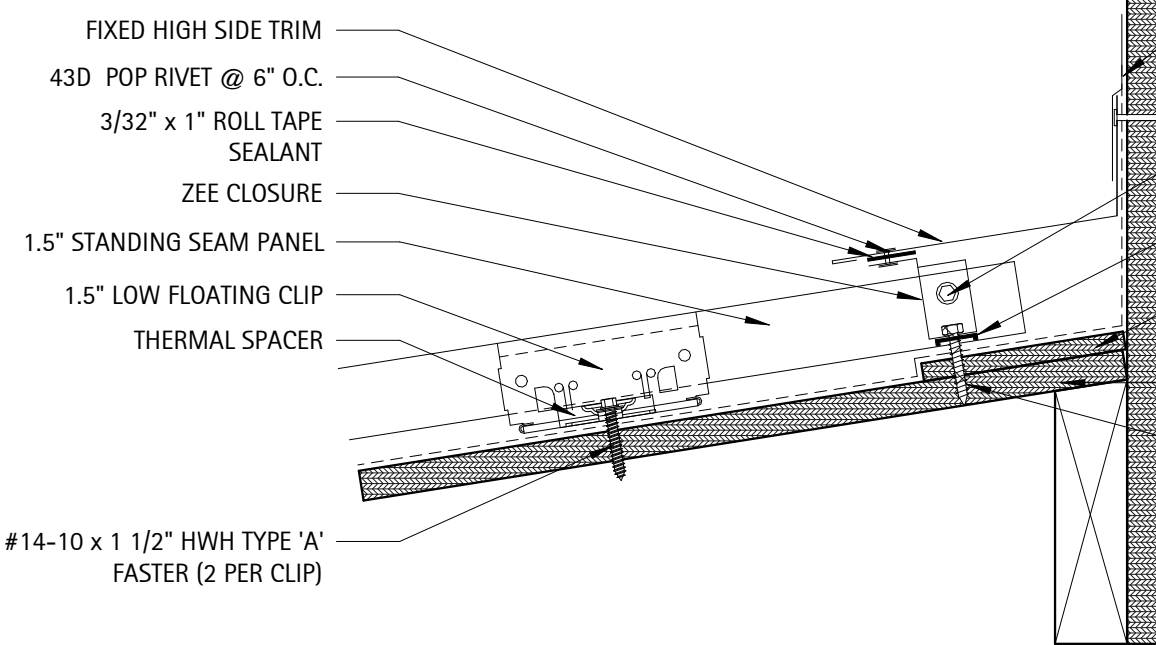
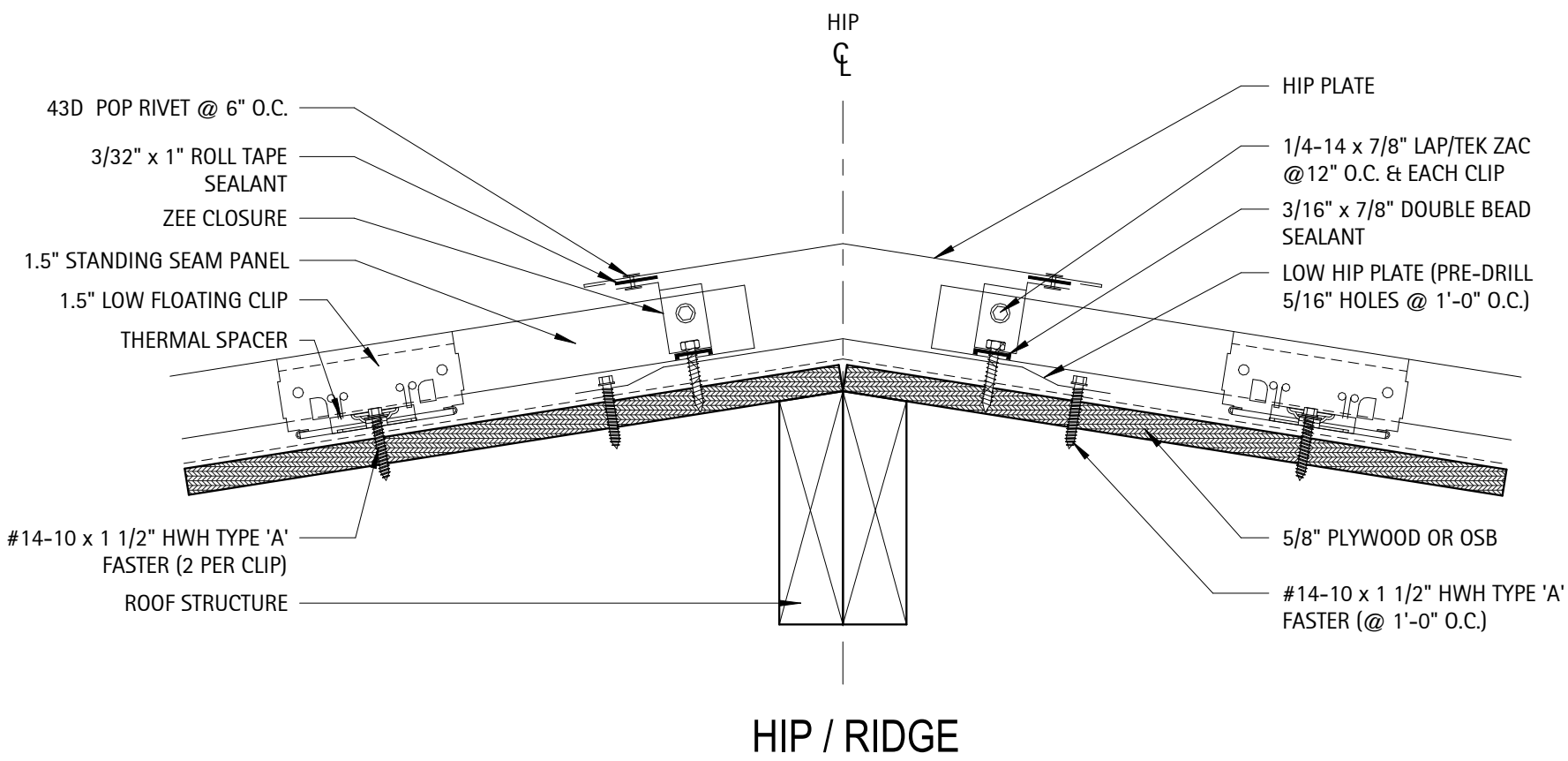
Cladding Systems to Thin Stone Veneer Installation

Sure Cavity™ (SC 5016 or SC 5032) or 10mm Sure Cavity™ (SCMM 2516 or SCMM 2532) or Gravity Cavity™ (GC 1816 or GC 1832)

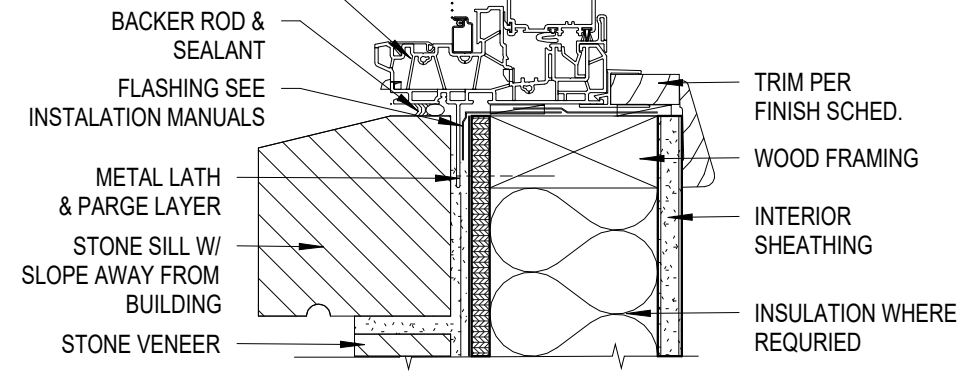
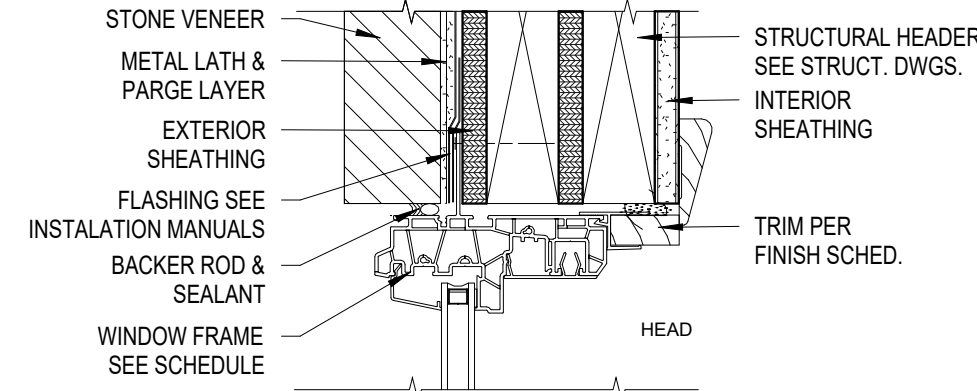
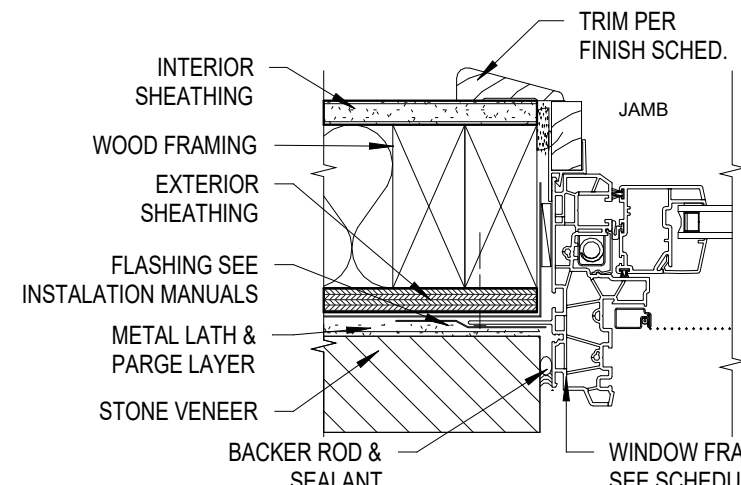


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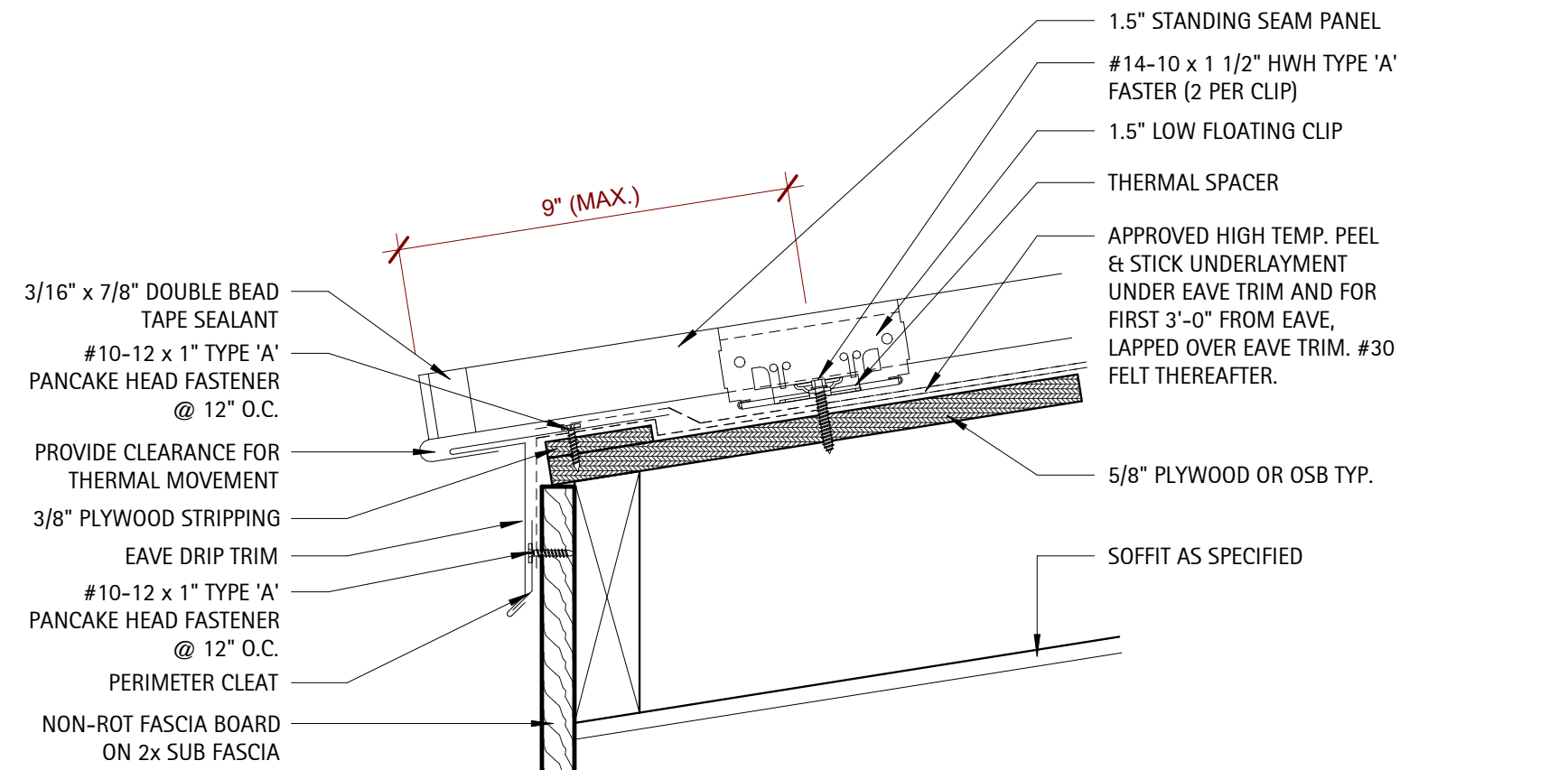
Detail - Stone Veneer
12" = 1'-0"



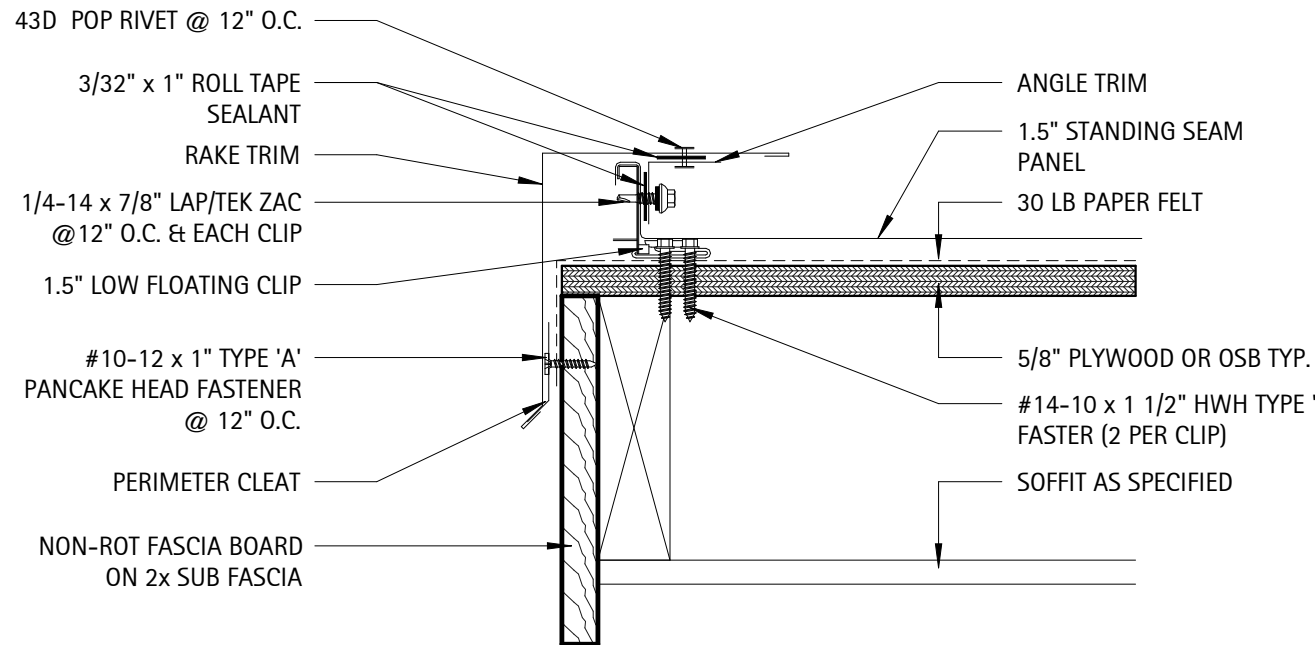
WINDOW TREATMENT
@ SIDING



WINDOW TREATMENT
@ STONE



EAVE WITHOUT GUTTER



TYPICAL RAKE TRIM

Detail - Standing Seam Roof
3" = 1'-0"

Detail - Window Treatments
3" = 1'-0"

Diagram illustrating the construction details of a corner joint in exterior wall sheathing. The components shown are:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- FIBER CEMENT PANEL SIDING
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- #1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- OUTSIDE CORNER TRIM

WOOD FRAMING

INSULATION WHERE REQUIRED

INTERIOR SHEATHING

EXTERIOR SHEATHING

WATER RESISTIVE BARRIER

FIBER CEMENT PANEL SIDING

#8 1/8" COUNTERSUNK S.S. SCREW w/ FILLER

VERTICAL TRIM

1/2"

Diagram illustrating the cross-section of a foundation wall assembly, showing the interior and exterior layers and the connection to the concrete slab/masonry footing.

Interior Side (Left):

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- BOTTOM PLATE
- MOISTURE BARRIER
- CONC. SLAB/ MASONRY FOOTING

Exterior Side (Right):

- FIBER CEMENT PANEL SIDING
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- #8 1/8" COUNTERSUNK S.S. SCREW w/ FILLER
- DRAINAGE FLASHING
- MIN. 1" - 2" CLEARANCE @ SOLID SURFACE
- MIN. 6" CLEARANCE @ GRADE
- PATH/ DRIVEWAY/SLAB

Diagram illustrating the cross-section of a window installation, showing the assembly from the interior sheathing to the exterior siding. The components and their assembly are labeled as follows:

- WINDOW FRAME. SEE WINDOW SILL DETAILS
- PROVIDE FLASHING AS REQUIRED PER WINDOW MANUFACTURER
- SEALANT w/ BACKER ROD
- HORIZONTAL EDGE TRIM w/ MIN. 1/4" REVEAL
- #8 1 5/8" COUNTERSUNK S.S. SCREW w FILLER
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- FIBER CEMENT PANEL SIDING
- WOOD STUD WALL
- INSULATION WHERE REQUIRED
- INTERIOR SHEATHING
- WOOD FRAMING
- WRAP WATER RESISTIVE BARRIER OVER TOP OF FRAMING

Diagram illustrating the cross-section of a window header assembly, showing the relationship between various components and their installation details:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- WINDOW HEADER
- MOSITURE BARRIER
- SHIMS AS NEEDED
- FIBER CEMENT PANEL
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- #8 1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- DO NOT CAULK
- 1/2" MIN.
- DRAINAGE FLASHING
- WINDOW FRAME. SEE WINDOW HEADER DETAILS

Diagram illustrating the cross-section of a window installation, showing the relationship between various components and their fasteners:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- BLOCKING AS REQUIRED
- EXTERIOR SHEATHING
- WATER RESISTIVE BARRIER
- FIBER CEMENT PANEL SIDING
- #8 1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- DO NOT CAULK
- 1 1/2" MIN.
- DRAINAGE FLASHING
- FIXTURE PENETRATION
- BLOCKING AS REQUIRED
- FIBER CEMENT TRIM BOARDS
- LEAVE MIN. 1/8" GAP & CONT. CAULK
- #8 1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING

Diagram illustrating the cross-section of a wall assembly, showing the integration of a fiber cement panel siding system with traditional sheathing and insulation.

Interior Side (Left):

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- BLOCKING AS REQUIRED

Exterior Side (Right):

- EXTERIOR SHEATHING
- WATER RESISTIVE BARRIER
- FIBER CEMENT PANEL SIDING
- #8 1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- 1/2" SPACING
- DRAINAGE FLASHING
- #8 1 5/8" COUNTERSUNK S.S. SCREW w/ FILLER
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING

Detail - Reveal Panel Siding
3" = 1'-0"

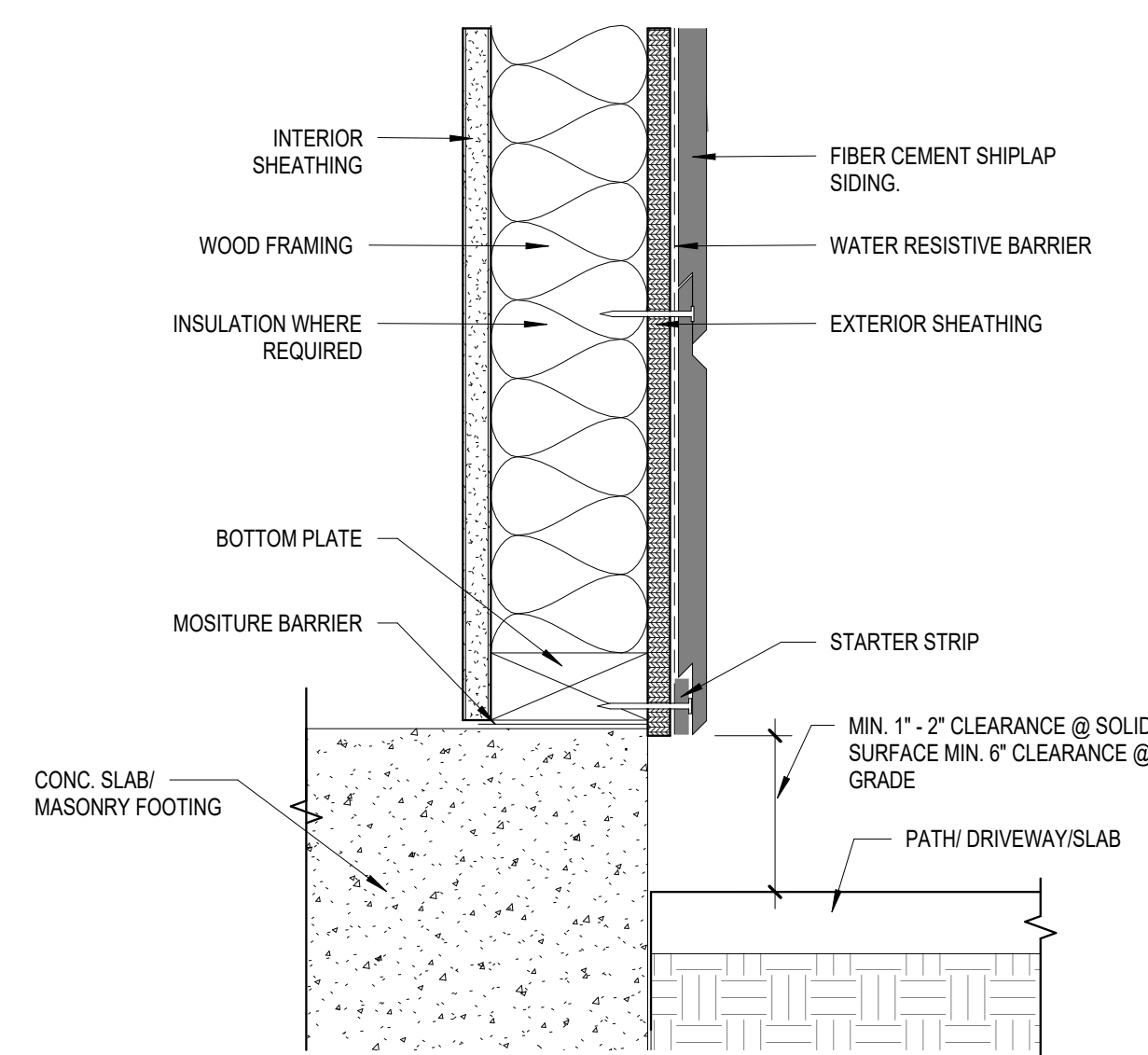


Diagram illustrating the cross-section of a window installation, showing the assembly from the interior sheathing to the exterior siding. The components and their assembly are labeled as follows:

- WINDOW FRAME. SEE WINDOW SILL DETAILS
- WRAP WATER RESISTIVE BARRIER OVER TOP OF FRAMING
- WOOD FRAMING
- PROVIDE FLASHING AS REQUIRED PER WINDOW MANUFACTURER
- FIBER CEMENT TRIM BOARDS
- LEAVE APPROPRIATE GAP & CONT. CAULK
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- FIBER CEMENT SHIPLAP SIDING
- WOOD STUD WALL
- INSULATION WHERE REQUIRED
- INTERIOR SHEATHING

Diagram illustrating the cross-section of a window header assembly, showing the relationship between various components:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- WINDOW HEADER
- MOISTURE BARRIER
- SHIMS AS NEEDED
- FIBER CEMENT SIPLAP SIDING
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- STARTER STRIP
- 1/4" GAP. DO NOT CAULK
- Z-FLASHING
- FIBER CEMENT TRIM BOARDS
- PROVIDE FLASHING AS REQUIRED BY WINDOW MANUFACTURER
- WINDOW FRAME. SEE WINDOW HEADER DETAILS

Diagram illustrating the installation of fiber cement siding and trim boards, showing the relationship between various components and the required gap for caulking.

Labels and Components:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- BLOCKING AS REQUIRED
- EXTERIOR SHEATHING
- WATER RESISTIVE BARRIER
- FIBER CEMENT SHIPLAP SIDING
- STARTER STRIP
- 1/4" GAP. DO NOT CAULK
- Z-FLASHING
- FIBER CEMENT TRIM BOARD
- FIXTURE PENETRATION
- BLOCKING AS REQUIRED
- FIBER CEMENT TRIM BOARDS
- LEAVE APPROPRIATE GAP & CONT. CAULK
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING

Diagram illustrating the cross-section of a stone veneer wall assembly, showing the layers from the interior to the exterior:

- INTERIOR SHEATHING
- WOOD FRAMING
- INSULATION WHERE REQUIRED
- FIBER CEMENT SHIPLAP SIDING
- WATER RESISTIVE BARRIER
- EXTERIOR SHEATHING
- STARTER STRIP
- 1/4" GAP. DO NOT CAULK
- CONT. FLASHING MIN. 6" OVERLAP @ JOINTS
- STONE WATERTABLE SLOPED TO MOVE WATER AWAY FROM BUILDING
- METAL LATH & PARGE LAYER PER MANUFACTURERS SPECIFICATIONS
- STONE VENEER, INSTALL PER MANUFACTURERS SPECIFICATIONS

Detail - Shiplap Siding

DOORS, FRAMES, HARDWARE NOTES

- 1
- Refer to Door and Hardware Schedule for extent, type and additional notes. Acceptable wood door manufacturers to be Weyerhaeuser, Eggers, Mohawk or Architect approved equal. General Contractor shall provide a hardware schedule and catalogue cuts for all finish hardware for approval by the Architect indicating location of hardware set, cross-referenced to indications on Drawings, manufacturer's name and product number, finish, and other similar information describing hardware to be provided. Items of hardware not definitely specified, but needed for satisfactory installation of hardware shall be provided. Such items shall be of type and quality suitable for service needed and comparable to adjacent hardware.
- 2
- All doors shall be set 6" off adjacent perpendicular wall, UON. Doors shall not be undercut, UON. All levers, pulls, and locks are to be provided per the schedule. All hinges and other miscellaneous exposed hardware shall be in similar and compatible finishes as indicated on Hardware Schedule.
- 3
- General Contractor shall coordinate keying system with Owner (Building Management), Landlord, and Architect. General Contractor shall coordinate security system with system vendor and scheduled hardware and the submittal of all security hardware specifications and cut sheets to the proper authorities for review and approval during building permit process
- 4
- Provide hardware, door pulls, hinges, closers, electromagnetic devices, etc. needed to provide a full and complete installation. Provide silencers at metal frame doors. Provide floor mounted door stops unless existing conditions require wall mounted. Ensure adequate blocking for wall mounted stops. Submit to Architect for approval.
- 5
- Provide 4 1/2 x 4 1/2, full mortise, template, 5-knuckle, heavy duty, button tip hinges with non-rising loose pins and anti-friction, ball type bearing. Doors with locksets shall be furnished with non-removable pins hinges. Provide 1-1/2" pair hinges for doors up to 90" in height. Add 1 hinge for every additional 30" in height.
- 6
- Heavy duty cylindrical locksets and latches shall conform to ANSI A156.2, Series 4000, Grade 1. Functions as listed in schedule. Heavy duty mortise locksets and latches, levers shall conform to ANSI A156.13 Series, 1000, Grade 1. Overhead Closers shall be surface mounted or concealed overhead as noted in the hardware schedule and shall be heavy duty, fully hydraulic, rack and pinion action and sized to be in compliance with requirements for accessibility for handicapped and recommendations of manufacturer. Furnish complete with all necessary hardware. Furnish 2 keys per lock with a maximum of 8 keys per keyed alike set. Before final completion, adjust hardware so that doors operate in perfect order. Test and adjust hardware for quiet, smooth operation and adjust closers for proper operation. At final completion, properly tag and identify keys and deliver to Owner.
- 7
- All Hardware shall be medium grade commercial if not otherwise noted or specified. See allowance per door.
- 8
- All interior egress doors and a minimum of one exterior egress door shall be readable openalbe from the egress side without use of a key or special knowledge.
- 9
- All Glazing within 24" of either side of a door in a closed position, and on the same wall plane shall be tempered. Tempered glass shall be installed by code in the following locations:

a. Door Glazing;

b. Glazingfor bathroom fixture enclosures(showers, etc)

c. Glazing less than 60" above tub and shower drains;

d. Glazing within24" of an adjacent door w/ sill less than 60 degrees;

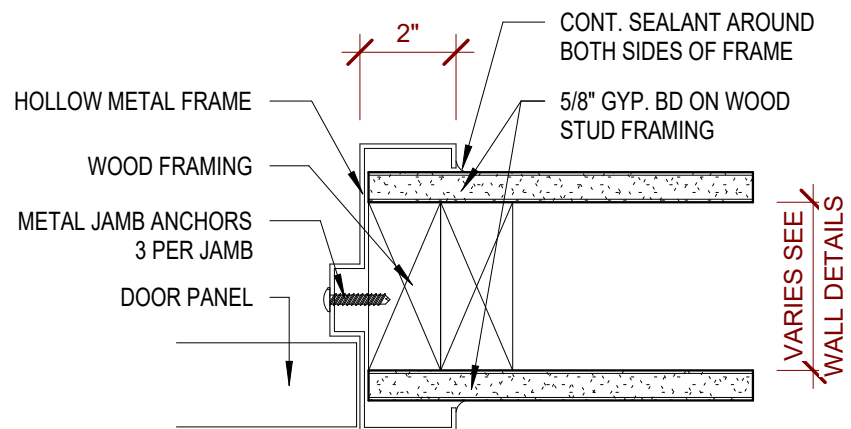
e. Individual panels of Glazing greater than 9 sqft and sill less than 18" above floor and top edge greater than 36".
- 10
- Provide an interior door signage allowance of \$25.00 per door.
- 11
- Fire Extinusisher cabinets shall be similar to J.L Industries Mod. Clear VU 1525F26 with a clear bubble and A#10 S/S Finish. ADA approved and mounted. Place where shown on plans (FX)
- 12
- Door closers shall be LCN series 4040 or equivalent

CLUBHOUSE ROOM SCHEDULE								
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Crown	Comments
100	ELEC.	Concrete - Light Broom	1x8 Fiber Cement - Painted	MR GWB - Painted	MR GWB - Painted	Varies - Sloped	No	
101	PUMP ROOM	Concrete - Light Broom	1x8 Fiber Cement - Painted	MR GWB - Painted	MR GWB - Painted	Varies - Sloped	No	See plans for sump pit layout - Slope all floors to drain.
102	CHEM ROOM	Concrete - Light Broom	1x8 Fiber Cement - Painted	MR GWB - Painted	MR GWB - Painted	Varies - Sloped	No	Provide non -rot chemical shelf @ 16" A.F.F.
103	COVERED PORCH	Concrete - Light Broom	N/A	N/	Hardie Panels or EQ - Painted	Varies - Sloped	No	Slope all floors away from building walls @ Min. 1/8" per 1'-0"
104	WOMENS	Acrylic Chip FLooring	1x8 Fiber Cement - Painted	MR GWB - Painted	MR GWB - Painted	Varies - Sloped	No	Slope floor to drain.
105	MENS	Acrylic Chip FLooring	1x8 Fiber Cement - Painted	MR GWB - Epoxy Paint at Urinals	MR GWB - Painted	Varies - Sloped	No	Slope floor to drain.

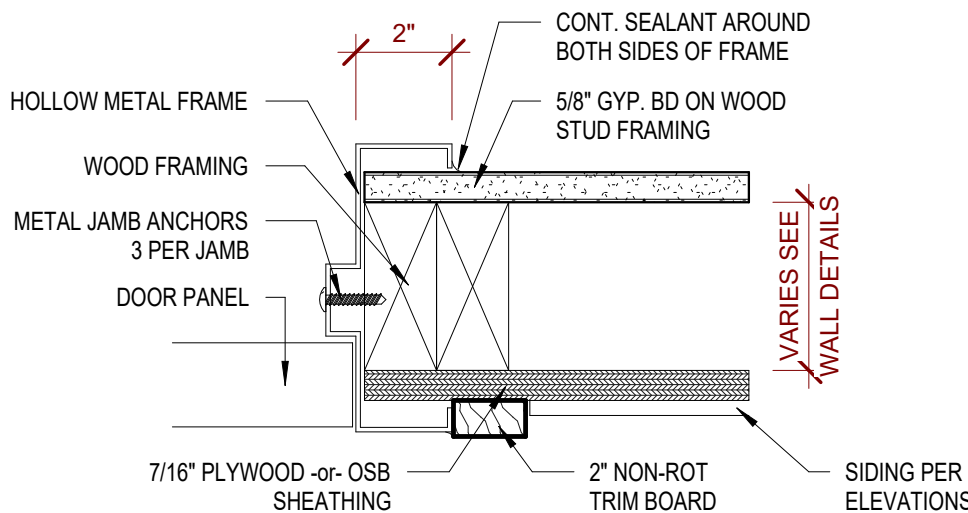
CLUBHOUSE DOOR SCHEDULE																							
Door Number	Style	Door			Rough Width	Rough Height	Door		Frame	Fire Rating	Hardware												Comments
		Width	Height	Thickness			Material	Finish	Material		Push / Pull	Passage Set	Privacy Set	Office Set	Storage Set	Deadbolt	Panic Hardware	Closer	Weather strip	Threshold	FOB Access	Time Lock	
101	TYPE B	3' - 6"	7' - 0"	0' - 1 3/4"	3' - 8"	7' - 1"	HM	PAINT	METAL	N/A	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No	
102	TYPE B	5' - 0"	7' - 0"	0' - 1 3/4"	5' - 2 1/2"	7' - 1 1/4"	HM	PAINT	METAL		No	Yes	No	No	No	No	No	Yes	No	No	No	No	PROVIDE T-ASTRIGAL
104	TYPE A	3' - 0"	7' - 0"	0' - 1 3/4"	3' - 2"	7' - 1 1/4"	HM	PAINT	METAL	N/A	No	Yes	No	No	No	Yes	No	Yes	Yes	Yes	No	No	
105	TYPE A	3' - 0"	7' - 0"	0' - 1 3/4"	3' - 2"	7' - 1"	HM	PAINT	METAL	N/A	No	Yes	No	No	No	Yes	No	Yes	Yes	Yes	No	No	
G001		6' - 0"	6' - 0"				Alum.	PAINT	METAL	N/A	Yes	No	No	No	No	No	Yes	Yes	No	No	Yes	Yes	GATE
G002		6' - 0"	6' - 0"				Alum.	PAINT	METAL	N/A	Yes	No	No	No	No	No	Yes	Yes	No	No	Yes	Yes	GATE

Grand total: 6

CLUBHOUSE WINDOW SCHEDULE										
Mark	Count	Size		Rough Width	Rough Height	Type	Finish		Head Height	Comments
		Width	Height							
A	3	4' - 0"	2' - 0"	4' - 0 1/2"	2' - 0 1/2"	FIXED	VINYL - PLYGEM 1500 SERIES		7' 0" AFF	

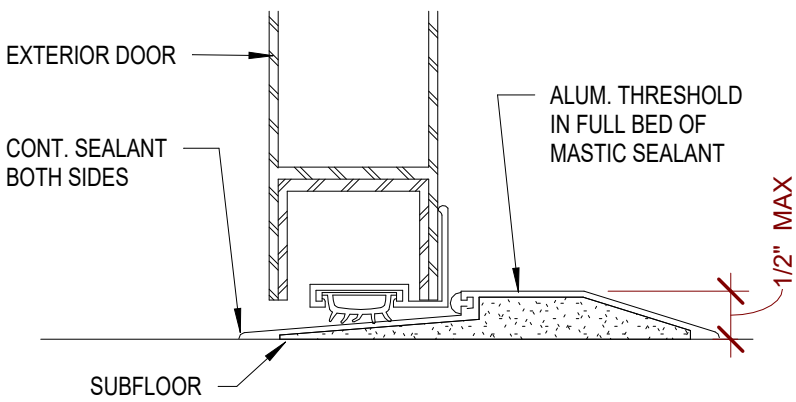


INTERIOR DOOR JAMB

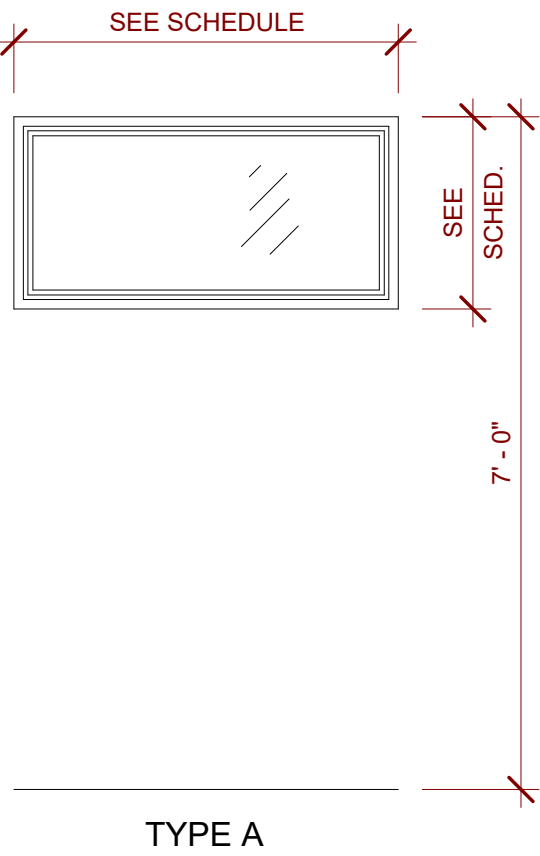


EXTERIOR DOOR JAMB

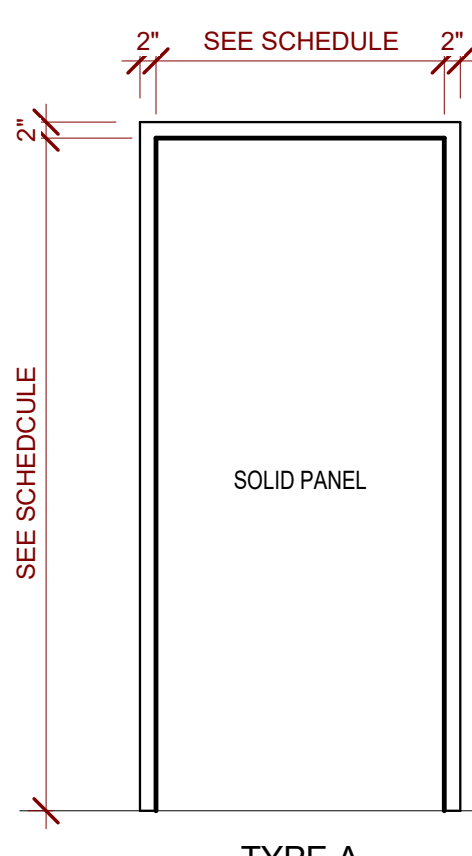
4
A6.0
Detail - Typ. Door Jambs
3" = 1'-0"



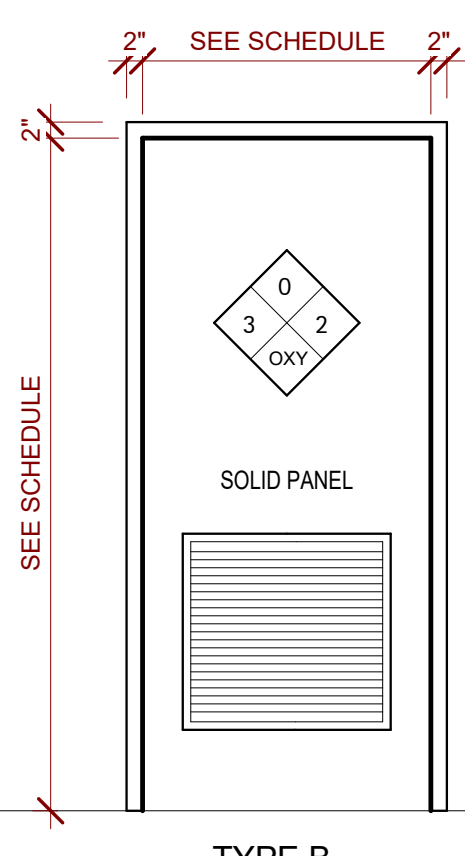
EXTERIOR DOORS THRESHOLD



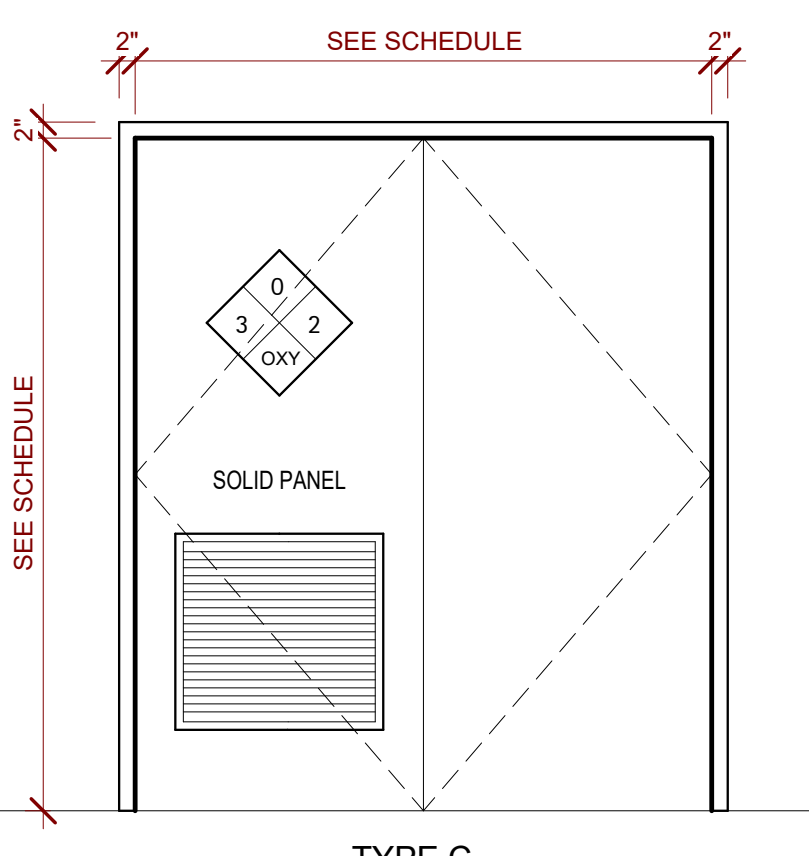
TYPE A



TYPE A



TYPE B

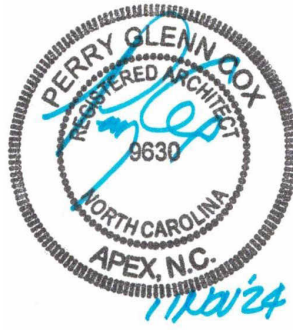


TYPE C

3
A6.0
Detail - Typ. Threshold
6" = 1'-0"

2
A6.0
Detail - Window Types
1/2" = 1'-0"

1
A6.0
Detail - Door Frames
1/2" = 1'-0"



DATE	
REVISION	
NO.	
PROJECT #: 2024020	
DATE ISSUED: 11/11/2024	
DRAWING BY: JGM	
CHECKED BY: DSC/PGC	
100% I.F.P.	

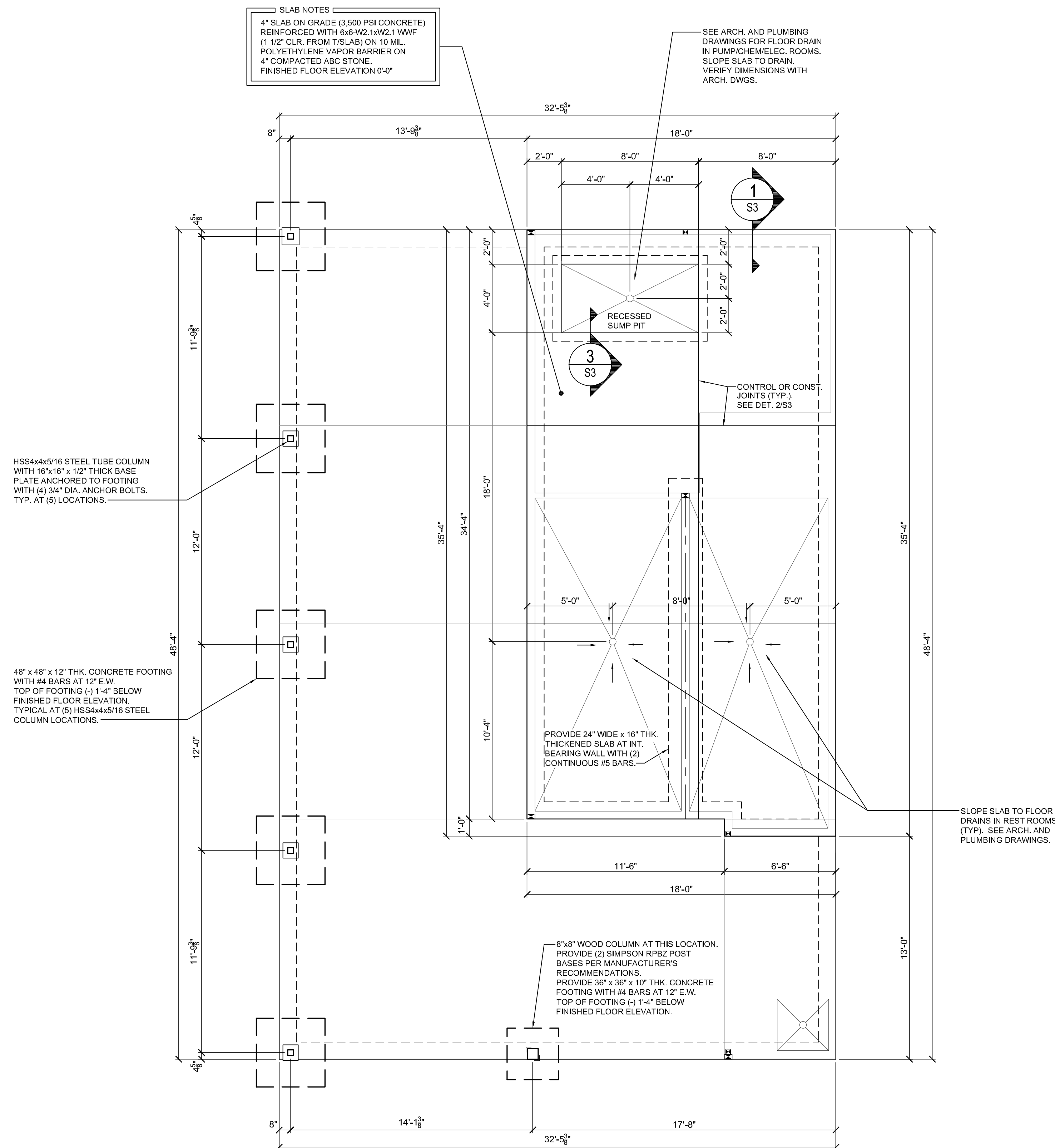
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PROJECT #:	C24080
DATE ISSUED:	10/21/2024
DRAWING BY:	BR
CHECKED BY:	BR/JM

100% I.F.C.

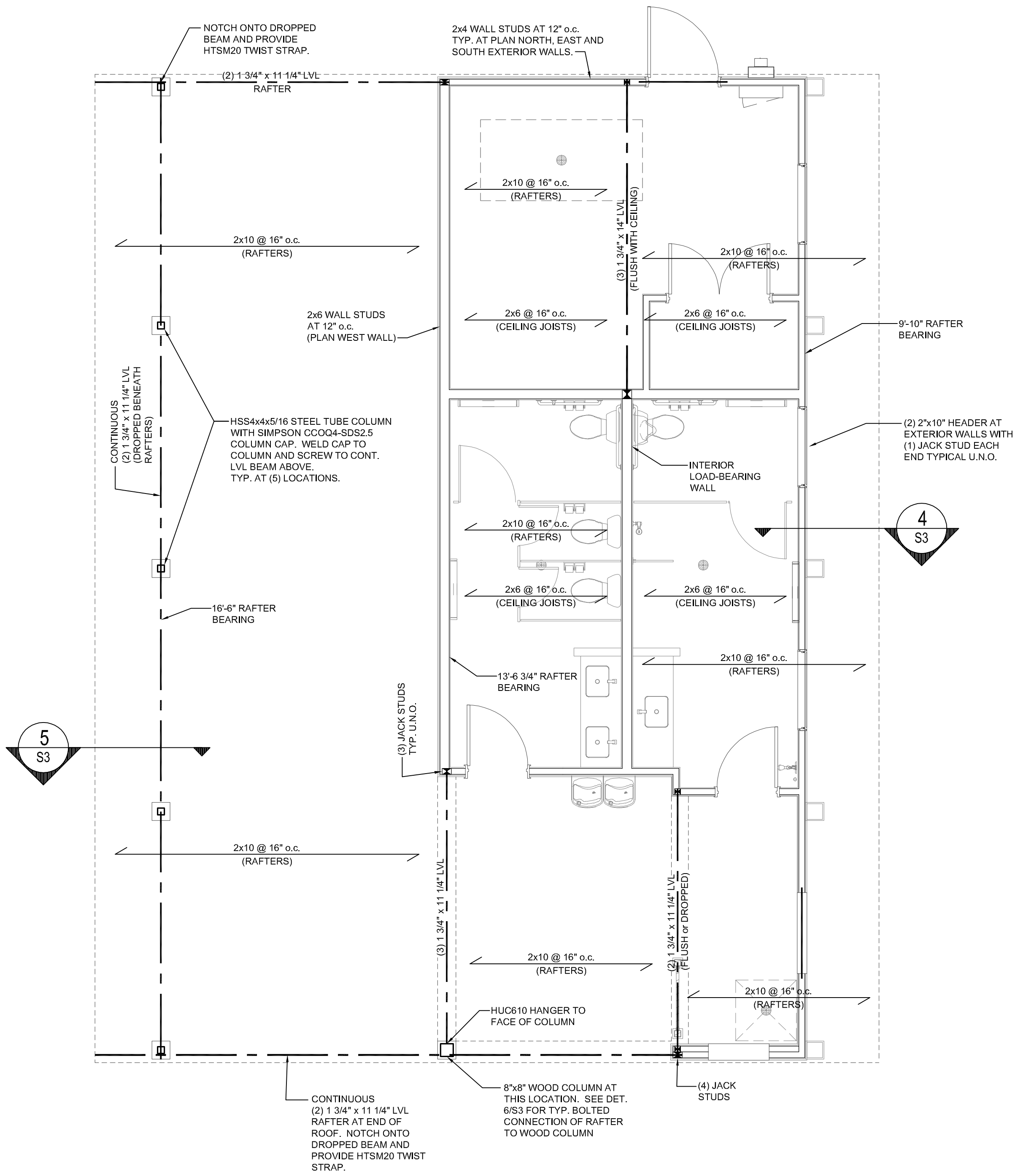
Slab and Foundation Plan

S1

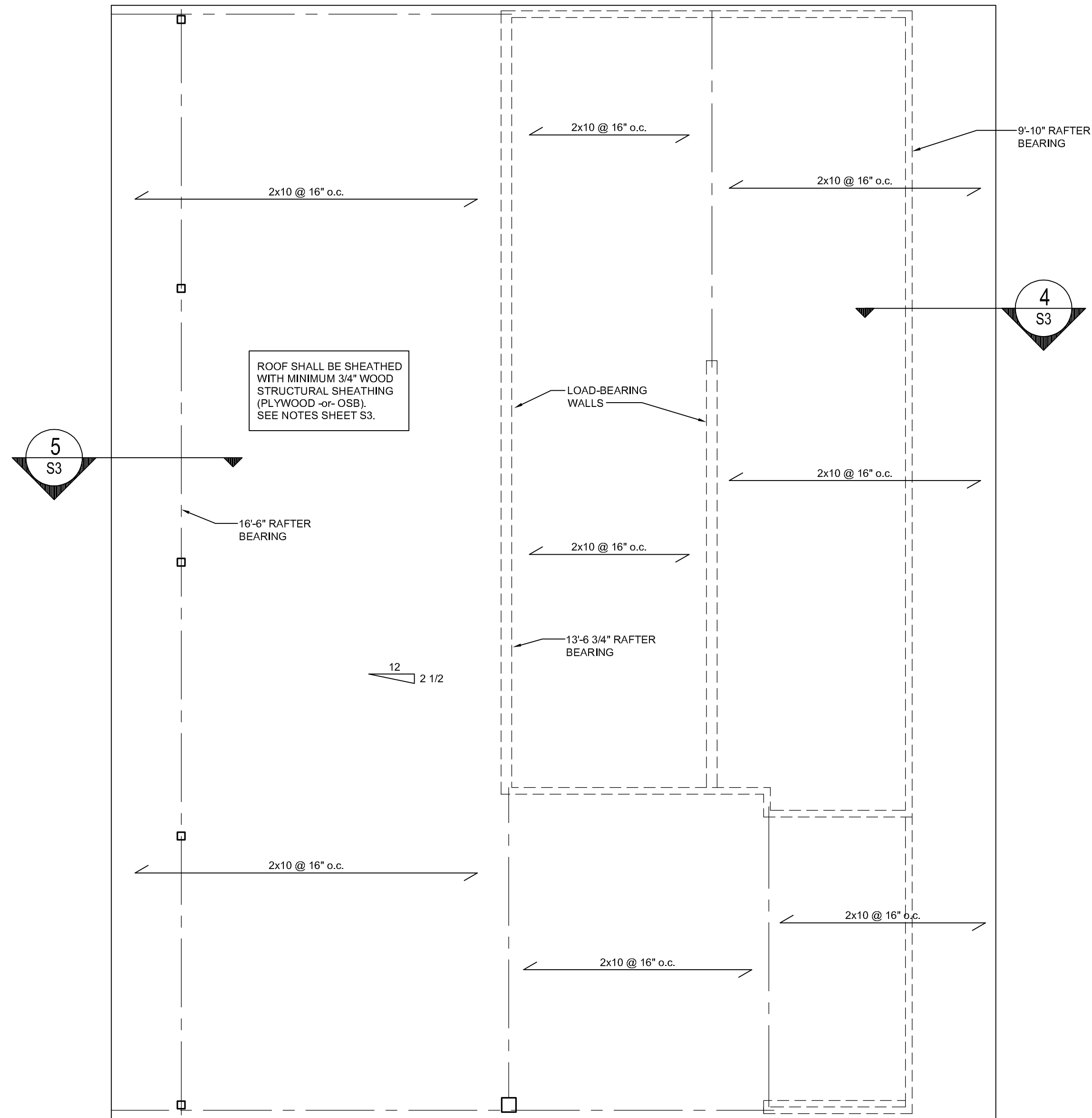


 1 SLAB AND FOUNDATION PLAN
S1 1/4" = 1'-0"





1 WALL AND CEILING FRAMING PLAN
1/4" = 1'-0"



2 ROOF FRAMING PLAN
1/4" = 1'-0"



NO.	REVISION	DATE

PROJECT #: C240801
DATE ISSUED: 10/21/2024
DRAWING BY: BR
CHECKED BY: BR/JM

100% I.F.C.

Framing
Plans

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, FASC - 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 AN APPROVED LOCATION. PC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, 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 DIAGRAMMATIC, THE PC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC. TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCE. 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, COMPACTATION, 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 SPECIFIC 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 AS 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 GRADIENT. 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 RISER AS POSSIBLE. PROVIDE A PRESSURE 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, COMMERCIALY 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, GABLES, 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 308.5 OF THE NC PLUMBING CODE. HANGERS AND ACCESSORIES SHALL BE GRINNEL, MASON, OR 8-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 SHALL BE SCHEDULE 40 STEEL PIPE. CONCRETE CUT. SLEEVES IN GYPSUM 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 CEILINGS. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER. SLEEVES IN WALLS SHALL BE INSTALLED FLUSH WITH 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. ANNULAR 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 WHICHEVER 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 HANDI-LAV GUARD INSULATION KIT BY TRUEBRO OR EQUAL.
- POTABLE WATER OUTLETS SHALL BE PROTECTED FROM BACKFLOW IN ACCORDANCE WITH 606.15. PRESSURE TYPE VACUUM BREAKERS SHALL CONFORM TO ASSE 1020 AND SPILLPROOF VACUUM BREAKERS SHALL COMPLY 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.

MATERIALS:

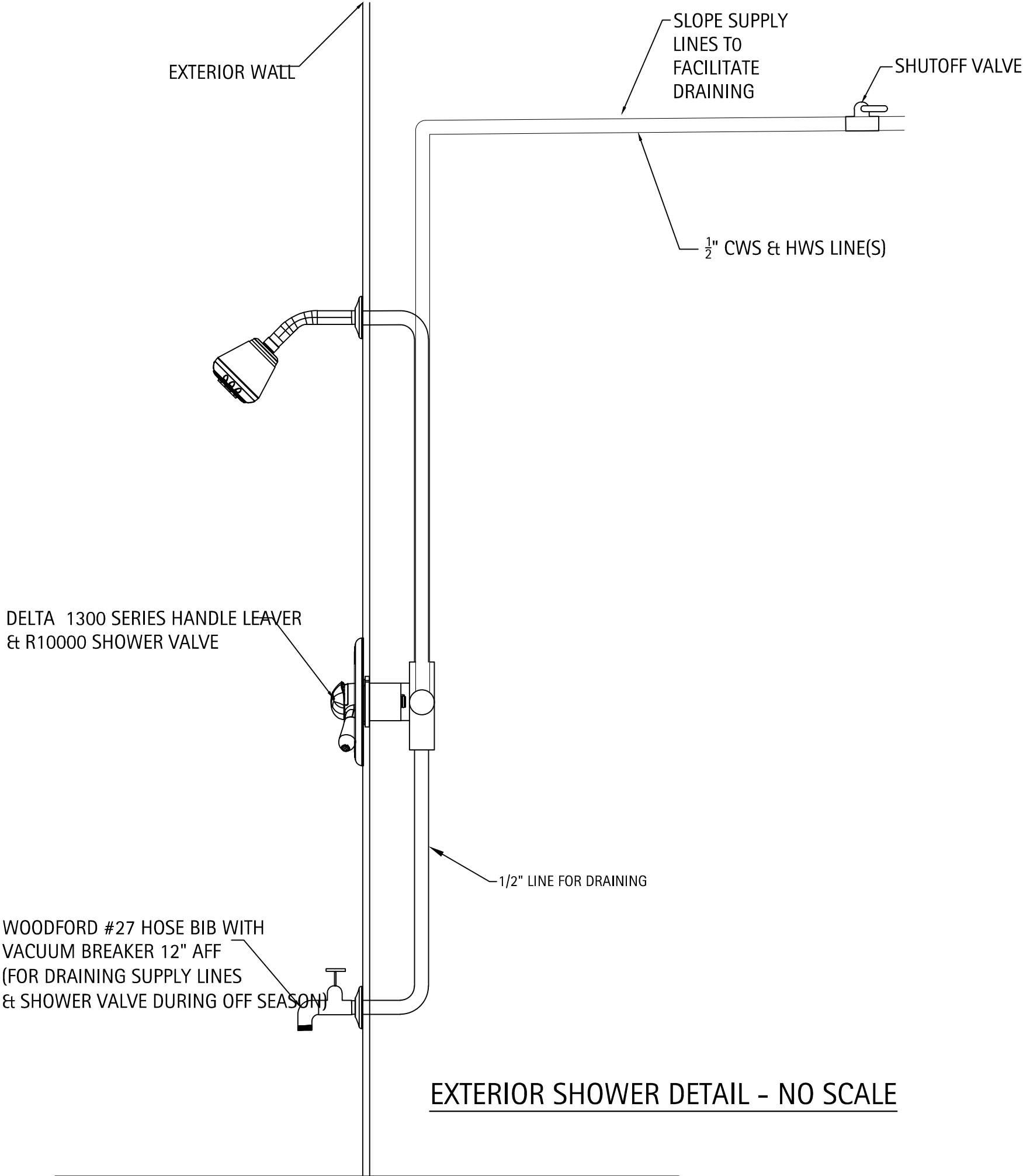
- ALL OVERHEAD DOMESTIC WATER PIPING SHALL HAVE 95/5 LEAD FREE SOLDER, AND ALL BELOW GRADE WATER PIPING SHALL BE TYPE K COPPER WITH NO JOINTS. ALL PIPING SHALL HAVE MANUFACTURER'S NAME AND THE APPLICABLE STANDARD TO WHICH IT WAS MANUFACTURED CLEARLY MARKED ON EACH LENGTH. PIPING SHALL COMPLY WITH ASTM B-88. USE BRAZED 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 PENUMAS. 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 PENUMAS.
- BALL VALVES SHALL HAVE BRASS BODY, FULL PORT, CHROME PLATED BALL, WITH TEFLON SEATS, 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-SILICON BRONZE 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 NIBCO, WATTS, OR STOCKHAM.
- 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, THE BUTT 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 FIRESEALING MATERIALS ARE REQUIRED. INSULATION SHALL HAVE A FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP. WHITE-KRAFT 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 KNAUF, ARMACELL, JOHNS-MANVILLE, OR OWENS-CORNING.
- 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.
- FAUCETS AND FIXTURE FITTINGS SHALL CONFORM TO ASME A112.18.1. FAUCETS AND FIXTURE FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF NSF 61, SECTION 9. FIXTURE FITTINGS, FAUCETS, AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT HAND SIDE OF THE FIXTURE FITTING. BACKFLOW PREVENTION SHALL BE IN ACCORDANCE WITH SECTION 606.13 OF THE NC PLUMBING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS SHALL CONFORM TO ASSE 1013 OR AWWA C511. THE RELIEF OPENING SHALL DISCHARGE BY AIR GAP. AIR GAPS SHALL COMPLY WITH ASME A112.1.1 AND AIR GAP FITTINGS WITH ASME A112.1.3. DOUBLE CHECK VALVE ASSEMBLIES SHALL CONFORM TO ASSE 1010 OR AWWA C510. ACCESS TO BACKFLOW PREVENTERS SHALL BE PROVIDED AS SPECIFIED BY THE INSTALLATION INSTRUCTIONS OF THE APPROVED MANUFACTURER.
- FOR BELOW GRADE SANITARY WASTE PIPING, PC SHALL USE SERVICE WEIGHT CAST IRON PIPE WITH COMPRESSION JOINTS (ASTM A 74). USE MINIMUM 2 INCH SIZE UNDERGROUND. SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE PIPE FITTINGS (ASTM D 3311) MAY ALSO BE USED. DO NOT USE PVC PIPE FOR APPLICATIONS WHERE THE WASTE WATER TEMPERATURE EQUALS OR EXCEEDS 140°F OR IF THE BUILDING HEIGHT EXCEEDS 75 FEET.
- FOR ABOVE GRADE SANITARY WASTE AND VENT PIPING, USE SERVICE WEIGHT CAST IRON NO-HUB TYPE WITH COUPLINGS (CISPI 301). SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE FITTINGS (ASTM D 3311) MAY BE USED IF PERMITTED BY LOCAL CODE, EXCEPT IN BUILDINGS EXCEEDING 75 FEET IN HEIGHT. DO NOT INSTALL PVC IN RETURN AIR PENUMAS. ALL VENT AND BRANCH VENT PIPES SHALL BE SO GRADED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH SHALL BE INCREASED BY ONE NOMINAL SIZE FOR THE ENTIRE DEVELOPED LENGTH OF THE PIPE.
- PC SHALL PROVIDE ALL WATER HEATERS (WATTAGE/INPUT AND CAPACITY AS NOTED IN SCHEDULE), ALL WATER HEATERS SHALL BE THIRD PARTY CERTIFIED. PROVIDE PANS FOR WATER HEATERS IN ACCORDANCE WITH 504.7 OF THE NC PLUMBING CODE. ELECTRICAL CONNECTIONS SHALL BE BY ELECTRICAL CONTRACTOR, PC SHALL COORDINATE WITH EC ON ELECTRICAL CHARACTERISTICS OF THE EQUIPMENT PROVIDED.
- ALL PUMPS SHALL BE RATED FOR TRANSPORT OF POTABLE WATER. PUMPS IN AN INDIVIDUAL WATER SUPPLY SYSTEM SHALL BE CONSTRUCTED AND INSTALLED SO AS TO PREVENT CONTAMINATION FROM ENTERING THE WATER SUPPLY SYSTEM.

- 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 AS 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 GRADIENT. 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 RISER AS POSSIBLE. PROVIDE A PRESSURE 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, COMMERCIALY 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, GABLES, 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 308.5 OF THE NC PLUMBING CODE. HANGERS AND ACCESSORIES SHALL BE GRINNEL, MASON, OR 8-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 SHALL BE SCHEDULE 40 STEEL PIPE. CONCRETE CUT. SLEEVES IN GYPSUM 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 CEILINGS. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER. SLEEVES IN WALLS SHALL BE INSTALLED FLUSH WITH 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. ANNULAR 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 WHICHEVER 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 HANDI-LAV GUARD INSULATION KIT BY TRUEBRO OR EQUAL.
- POTABLE WATER OUTLETS SHALL BE PROTECTED FROM BACKFLOW IN ACCORDANCE WITH 606.15. PRESSURE TYPE VACUUM BREAKERS SHALL CONFORM TO ASSE 1020 AND SPILLPROOF VACUUM BREAKERS SHALL COMPLY 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, EXISTANT SANITARY SEWER PIPING TO 5 FEET OUTSIDE THE BUILDING AND INSTALL ALL DRAINS, STACKS, VENTS, FLOOR DRAINS, AND CLEANOUTS 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 3 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. BRACES, BLOCKS, RODDING, BACKFILL AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING 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 CLEANOUTS IN ACCORDANCE WITH 708.10. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH A MIXTURE OF GRAPHITE AND UNSEED OIL. ENSURE CLEARANCE AT ALL CLEANOUTS FOR RODDING OF DRAINAGE SYSTEM. INSTALL FLOOR CLEANOUTS AT AN ELEVATION TO ACCOMMODATE FINISHED FLOOR. EVERY CLEANOUT SHALL BE INSTALLED TO ALLOW CLEANING IN THE DIRECTION OF FLOW OF THE DRAINAGE PIPE OR AT RIGHT ANGLES THERETO. CLEANOUTS ON 6 INCH AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 INCHES FOR RODDING.
- DRAINAGE PIPING FOR FUTURE FIXTURES SHALL TERMINATE WITH AN APPROVED CAP OR PLUG.
- AIR ADMITTANCE 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 FLOOD LEVEL RIM 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 SEAT. PROVIDE INSULATING UNIONS AT EACH JUNCTION OF DISSIMILAR MATERIALS.
- 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 LAG SCREWS. SEAL ALL SELF-RIMMING LAVATORIES AND SINKS (VITREOUS CHINA AND STAINLESS STEEL) WITH A COMMERCIAL GRADE PLUMBER'S PUTTY OR ACRYLIC LATEX CAULK APPLIED TO THE UNDERSIDE OF THE FIXTURE RIM IN A GENEROUS AMOUNT SO THAT WHEN FIXTURE IS SET, SEALANT SHALL OOOZE OUT.
- ALL VENT THRU THE ROOF (VTR) PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PC SHALL PROVIDE FLASHING MATERIAL REQUIRED FOR VTRS. JOINTS AT THE ROOF AND AROUND VENT PIPES SHALL BE MADE WATER TIGHT BY THE USE OF LEAD, COPPER, GALVANIZED STEEL, ALUMINUM, OR OTHER APPROVED FLASHINGS OR FLASHING MATERIAL. MAINTAIN MINIMUM 10 FEET FROM ALL OUTSIDE AIR INTAKES.
- INSTALL FULL OPEN VALVES PER NC PLUMBING CODE 606.1 ON THE MAIN WATER LINE INTO THE BUILDING. INSTALL CUT OFF VALVES PER NC PC 269.

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	MANUFACTURER	FITTING	HW	CW	WASTE
P1	TWO PIECE TANK TYPE WATER CLOSET	KOHLER 4369 OR EQUAL BY AMERICAN STANDARD OR TOTO	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, KOHLER K-5309 ELONGATED FRONT BOWL AND CHROME TRIP LEVER, 1.28 GPF. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE.	-	1/2"	3"
P1H	TWO PIECE TANK TYPE ADA WATER CLOSET	KOHLER 4369 OR EQUAL BY AMERICAN STANDARD OR TOTO	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, KOHLER K-5309 ELONGATED FRONT BOWL AND CHROME TRIP LEVER, 1.28 GPF. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE. TOP OF SEAT SHALL BE 17-19 INCHES AFF FOR ADA. LEVER MOUNTED ON WIDE SIDE FOR ADA.	-	1/2"	3"
P2	WALL MOUNT LAVATORY	KOHLER K-2005 OR EQUAL BY AMERICAN STANDARD OR TOTO	VITREOUS CHINA LAVATORY WITH BACKSPASH COMPLYING WITH ASME 112.19.2. TOP OF RIM SHALL BE 34 INCHES AFF FOR ADA. PROVIDE WITH LAV-GUARD PROTECTORS FOR SUPPLY AND DRAIN LINES. PROVIDE JR SMITH 0700 (CONCEALED ARMS) WITH 19" ARMS 0800 (WALL SUPPORT PLATE). USE A METERING TYPE FAUCET SIMILAR TO CHICAGO 3300-E28054N (VERIFY EXACT FAUCET WITH OWNER).	1/2"	1/2"	2"
P2A	UNDER MOUNT LAVATORY	KOHLER K-20000 OR EQUAL BY AMERICAN STANDARD OR TOTO	VITREOUS CHINA SELF-RIMMING LAVATORY COMPLYING WITH ASME 112.19.2. MOUNT 50 RIM IS 34 INCHES AFF AND 2 INCHES FROM FRONT EDGE FOR ADA. PROVIDE WITH LAV-GUARD PROTECTORS. SUPPLY AND DRAIN LINES. USE A KOHLER K-103177-SANL FAUCET (COORDINATE WITH EC FOR FAUCET POWER).	1/2"	1/2"	2"
P3	URINAL	KOHLER K-4991-ET OR EQUAL BY AMERICAN STANDARD OR TOTO	VITREOUS CHINA, WALL-MOUNTED, ADA COMPLIANT, LOW CONSUMPTION WASHOUT URINAL COMPLYING WITH ASME 112.19.2. 1 GPF. KOHLER K-76319 FLUSHOMETER VALVE OR EQUAL BY ZURN OR TOTO. TOP OF RIM SHALL BE 17 INCHES AFF FOR ADA.	-	3/4"	2"
P4	HAND SHOWER	AMERICAN STANDARD 1660,766 OR EQUAL	1.5 GPM 3-FUNCTION SHOWER W/ PAUSE FEATURE MEETING ADA AND ANSI 117.1, 90" WALL SUPPLY (AMERICAN STANDARD 8888.068), METERED SHOWER VALVE (SYMMONS 4-420), WALL SHOWER HEAD & DIVERTER (ZURN 720000-12)(Z7000-DV-2P), AND ADJUSTABLE VERTICAL VALVE ROD. COORDINATE FINISH WITH OWNERS.	1/2"	1/2"	-
P5	DRINKING FOUNTAIN	ELKAY VRCLFRDSSC	ADA COMPLIANT FOR ADULT AND CHILD. 8.0 GPH OF 50°F WATER AT 90°F AMBIENT. PROVIDE ACCESSORY APRON FOR ADA COMPLIANCE AS NECESSARY. VANDAL AND FROST RESISTANT.	-	3/8"	2"
P6	FLOOR DRAIN	WATTS FD-200-A OR EQUAL BY ZURN OR JR SMITH	ON GRADE EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEP HOLES, ADJUSTABLE ROUND NICKEL BRONZE STRAINER, AND NO HUB OUTLET. PROVIDE WITH A RUBBER GASKET. PROVIDE TRAP PRIMER CONNECTION OPTION IF NOTED.	-	-	3"
P7	SUMP PIT FLOOR DRAIN	ZURN FD1 OR EQUAL BY WATTS OR JR SMITH	ON GRADE ADJUSTABLE FLOOR DRAIN, ABS OR CAST IRON BODY, AND HUB OUTLET. PROVIDE WITH A RUBBER GASKET. PROVIDE TRAP PRIMER CONNECTION OPTION IF NOTED.	-	-	SEE PLAN
P8	FLOOR DRAIN TRAP SEAL	JAY R. SMITH OR EQUAL	RUBBER TRAP SEAL INSTALLED PRIOR TO P-TRAP, CAN BE INTEGRAL TO FLOOR DRAIN.	-	-	MATCH DRAIN
P9	FREEZEPROOF HOSE BIBB	ZURN Z1346 OR EQUAL BY WOODFORD OR MIFAB	EXPOSED NON-FREEZE ANTI-SIPHON AUTOMATIC DRAINING WALL FAUCET COMPLETE WITH EXTERIOR CHROME FINISH, BRASS CASING, ALL BRONZE INTERIOR PARTS, Z1399-VB ANTI-SIPHON INTEGRAL VACUUM BREAKER, OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE. REPLACEABLE SEAT WASHER.COMBINATION 1/2 FEMALE SOLDER INLET AND 1/2 MALE IP INLET CONNECTION STANDARD, AND 3/4 MALE HOSE CONNECTION.	-	1/2	-
P10	INTERIOR HOSE BIBB	ZURN Z1341-BFP OR EQUAL BY MIFAB OR WOODFORD	PROVIDE CHECK VALVE AND ANTI-SIPHON PROTECTION IF NOT INTEGRAL TO UNIT	-	1/2"	-
P11	EXPANSION TANK	AMTROL ST-5 OR EQUAL BY WATTS OR BELL & GOSSETT	INSTALL ON COLD WATER LINE BETWEEN WATER HEATER AND RPZ	-	3/4"	-
P12	3/4" RPZ BACKFLOW PREVENTER	WATTS LF909 QT OR EQUAL BY CONBRACO OR 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 AWWA C511	-	3/4"	-
P13	1" RPZ BACKFLOW PREVENTER	WATTS LF909 QT OR EQUAL BY CONBRACO OR 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 AWWA C511	-	1"	-
YHD	YARD HYDRANT	WOODFORD MODEL S4H OR APPROVED EQUAL	AUTO DRAIN W. BACKFLOW PREVENTION. BURY DEPTH TO BE BELOW FROST LINE. COORDINATE WITH SITE CONDITIONS.	-	-	-
FCO	FLOOR CLEANOUT	ZURN, WATTS, JR SMITH	EPOXY COATED CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB INLET.	-	-	4"
WCO	WALL CLEANOUT	ZURN, WATTS, JR SMITH	CAST IRON CLEANOUT FERFULE WITH THREADED BRASS COUNTERSUNK CLEANOUT PLUG, STAINLESS STEEL ACCESS COVER, AND VANDAL PROOF STAINLESS STEEL SCREW	-	-	4"
AAV	AIR ADMITTANCE VALVE	STUDOR REDIVENT OR APPROVED EQUAL	ANSI/ASSE 1051 LISTED. NSF STANDARD 14. PROVIDE PVC OR 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"

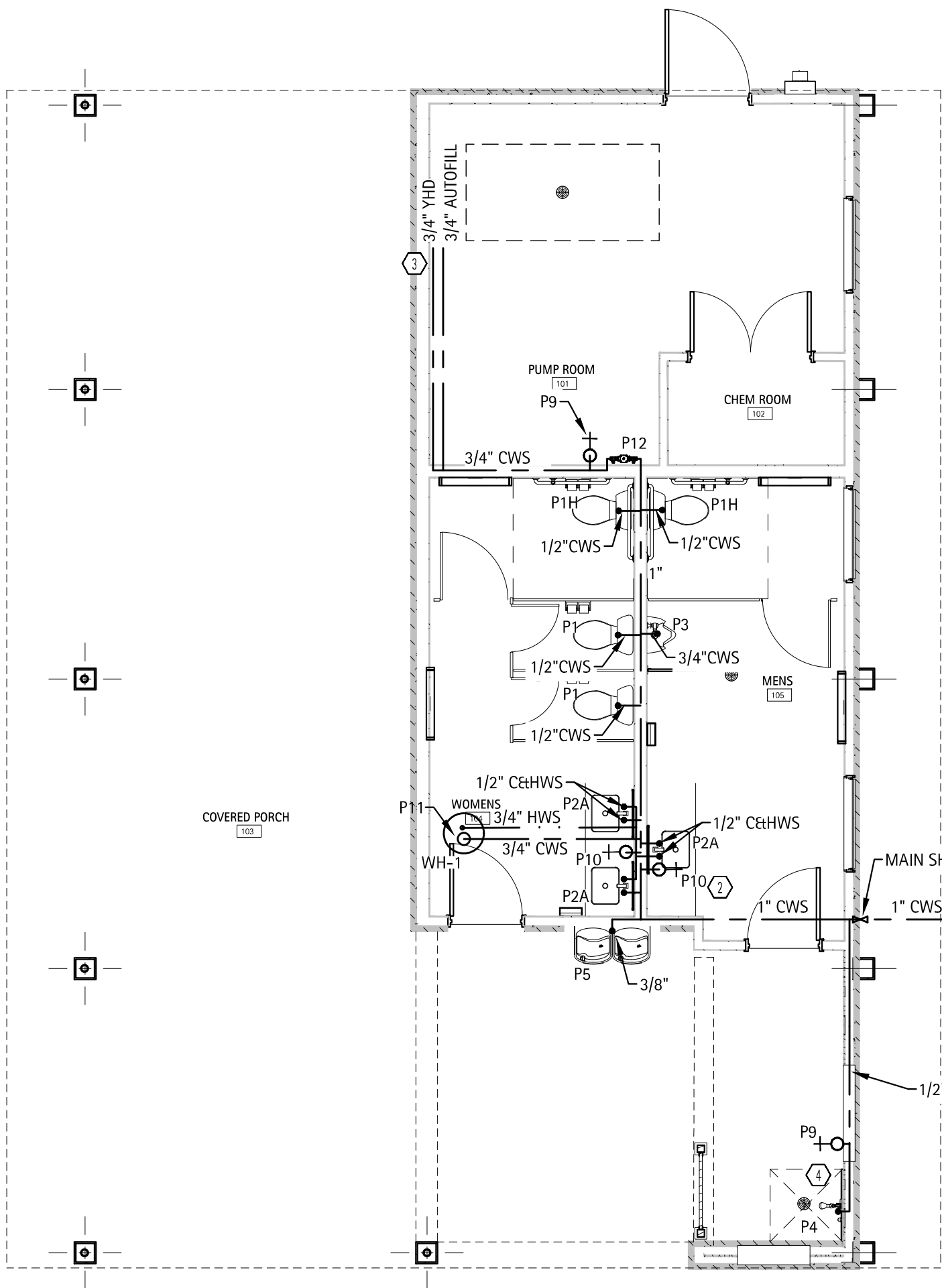


NOTE:
PC TO VERIFY ALL FIXTURES WITH ARCHITECT AND OWNER PRIOR TO PURCHASING

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

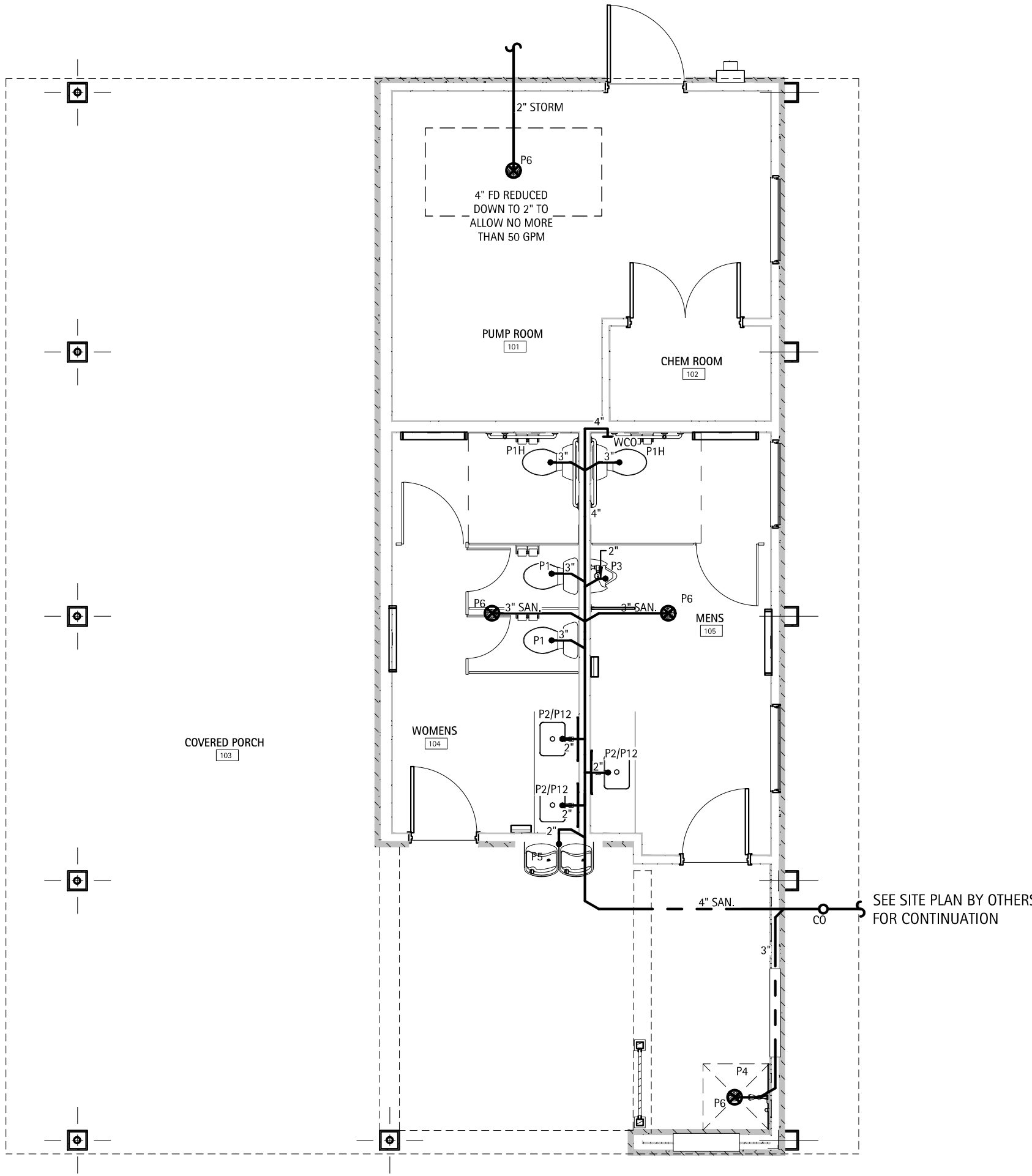
DO NOT TAP WATER LINE AHEAD OF RPZ.

PLUMBING LINES SIZING TABLE										
FIXTURE TYPE	OCCUPANCY	QTY	DRAINAGE FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS					
			EACH	TOTAL	CW	HW	CW & HW	HW TOTAL	TOTAL	
WATER CLOSET (FLUSH TANK)	PUBLIC	4	4.00	16.00	5.00	0.00	5.00	0.00	20.00	
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 (¾" FLUSH VALVE)	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	
DEMAND FIXTURE	GPM	QTY	TOTAL GPM	TOTAL DFU					23.5	
HOSE BIBBS	5	4	20.00	TOTAL WFSUs					7.5	35.3
				GPM					12.00	26.00
				OTHER FIXTURES' GPM					0.00	20.00
				TOTAL GPM					12.00	46.00
MINIMUM BUILDING DRAIN SIZE	4"	ONE HOSE BIB IN OPERATION AT A TIME								
MINIMUM WATER LINE SIZE	1"									

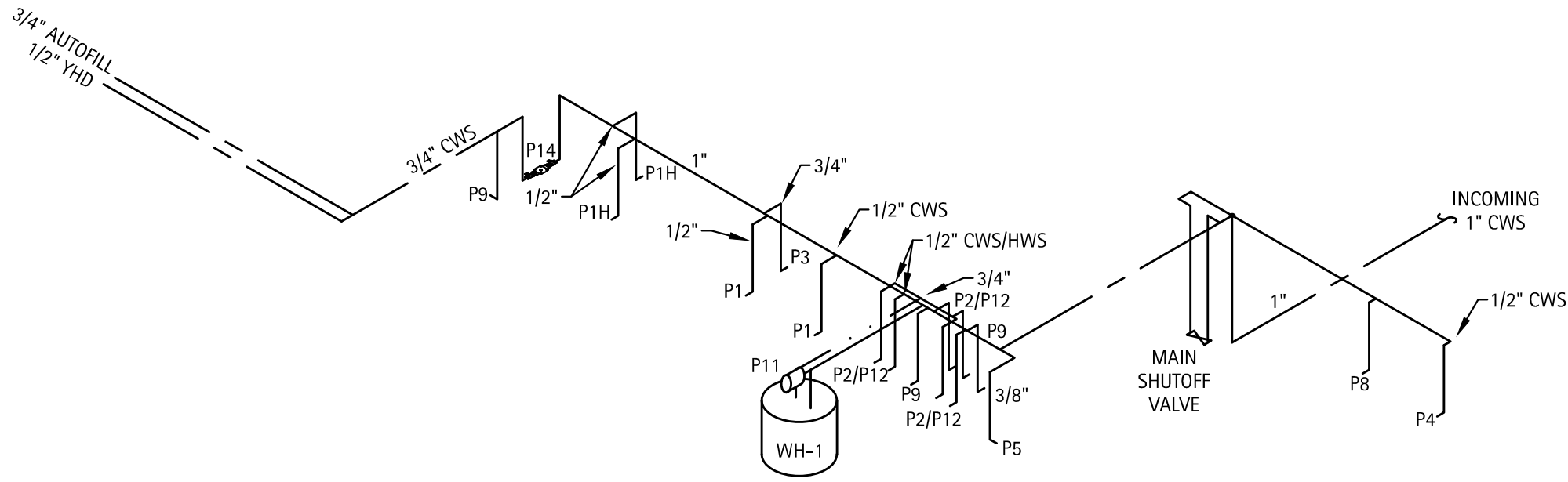


- SUPPLY PLAN HEX NOTES**
1. CONTINUE 1" DOMESTIC WATER LINE TO BACKFLOW PREVENTION IN HOTBOX. PC TO PROVIDE 1" RPZ (P13) IN HOTBOX. SEE SITE PLAN BY OTHERS FOR HOTBOX AND METER LOCATIONS.
 2. WATER HEATER MOUNTED ABOVE CEILING.
 3. VERIFY EXACT LOCATION OF YARD HYDRANT WITH ARCHITECT/GC.
 4. PC TO COORDINATE WITH EC TO PROVIDE HEAT TRACE FOR FIXTURES WITH THIS NOTE.

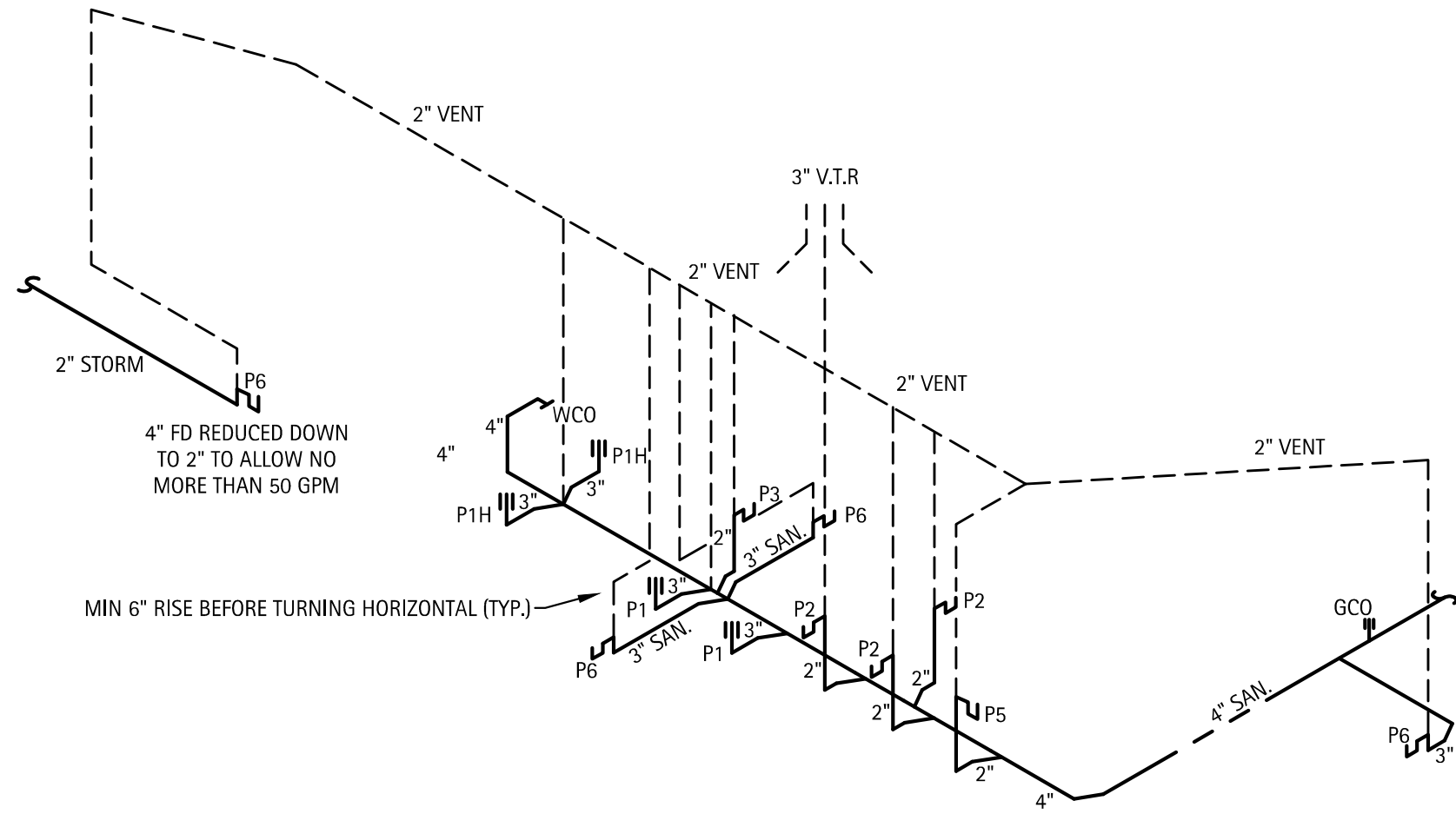
WATER SUPPLY PLAN - SCALE: 3/16" = 1'-0" | 1



SANITARY WASTE PLAN - SCALE: 3/16" = 1'-0" | 2



WATER SUPPLY RISER - NO SCALE | 3



SANITARY WASTE RISER - NO SCALE | 4



STATION POINTE
DAN RYAN BUILDERS
ANGIER, NORTH CAROLINA

NO.	REVISION	DATE

PROJECT #: 240664
DATE ISSUED: 2024 11 12
DRAWING BY: SLT
CHECKED BY: JLH

00% I.F.B.

**PLUMBING
PLANS**

P2



GENERAL ELECTRICAL NOTES

ADMINISTRATIVE

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
FAC - FIRE ALARM SYSTEM CONTRACTOR, AHJ - AUTHORITY HAVING JURISDICTION.
"PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
- EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. MINOR ITEMS, ACCESSORIES, AND DEVICES REASONABLY INFERRABLE AS NECESSARY FOR THE COMPLETION AND PROPER OPERATION OF ANY ELECTRICAL SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING.
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLADDER BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- THE ELECTRICAL CONTRACTOR 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.
- TRADE NAMES AND MANUFACTURERS ARE SPECIFIED TO ESTABLISH A QUALITY STANDARD. SUBSTITUTIONS SHALL BE PERMITTED IF APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL LISTED MODEL NUMBERS SHALL BE VERIFIED WITH THE MANUFACTURER FOR PROPER APPLICATION OF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BEGINNING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE RELIED UPON FOR GROUNDING CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250-122, SHALL BE RUN IN ALL POWER RACEWAYS. FOR NON-ISOLATED GROUND CIRCUITS PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CIRCUIT RAIL. FOR ISOLATED GROUND CIRCUITS, PROVIDE ONE NEUTRAL AND ONE ISOLATED GROUND WIRE FOR EACH CIRCUIT. IN ADDITION, PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CIRCUIT RUN. MAIN BONDING JUMPERS AND SYSTEM BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 250.28 OF THE NEC FOR BUILDINGS OR STRUCTURES SUPPLIED BY FEEDERS OR BRANCH CIRCUITS. GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 250.32. SEPARATELY DERIVED AC SYSTEMS SHALL BE GROUNDING IN ACCORDANCE WITH 250.30. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED PER 250.54 AS NECESSARY.
- THE ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE WITH THE GENERAL CONTRACTOR REGARDING THE BONDING OF THE FOOTING REBAR, SO THAT IT WILL BE IN PLACE AND READY AT TIME OF FOOTING INSPECTION.
- ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE UNDERWRITERS LABORATORIES, INC. STANDARDS OR HAVE UL APPROVAL OR BEAR UL RE-EXAMINATION LISTING WHERE SUCH APPROVAL HAS BEEN ESTABLISHED FOR THE TYPE OF DEVICE IN QUESTION.
- CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE BEEN SEED FOR THE SPECIFIED EQUIPMENT. BEFORE ORDERING ELECTRICAL EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON THE SITE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES SHOULD CONDUCTOR, CIRCUIT BREAKER, OR FUSE SIZES REQUIRE CHANGE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THE FOLLOWING MATERIALS ARE RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT: LIGHT FIXTURES, INCLUDING PROPER DISPOSAL OF BALLASTS, FLUORESCENT LIGHT BULBS, AND TRANSFORMERS, WIRING AND ELECTRICAL EQUIPMENT, AND INSULATION. WASTE MATERIALS CONTAINING LEAD, ASBESTOS, PCBs, POLYURETHANE LAMP BALLASTS, OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.
- ALL WORK SHALL CONFORM TO 2020 NATIONAL ELECTRIC CODE, 2018 STATE BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.

MATERIALS

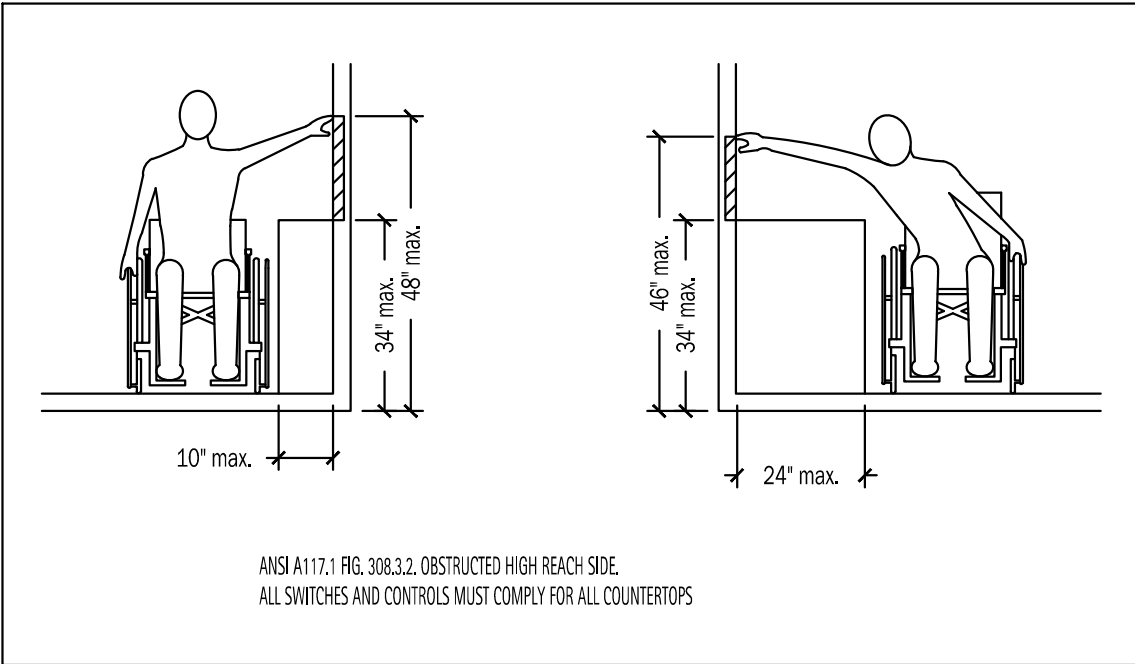
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC. UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCREPANCIES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY REENGINEERING SERVICES AND METEERING DETAILS PRIOR TO ORDERING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT OR TRANSFORMER SIZE AND IMPEDANCE FROM THE UTILITY AND CONTACT THE ENGINEER IF THE VALUE EXCEEDS THE EQUIPMENT SPECIFIED. PANEL, BOARD, AND SWITCH BOARDS SHALL BE SQUARE D, CUTLER-HAMMER, SEWIS, OR GE. BUSSES SHALL BE COPPER UNLESS OTHERWISE APPROVED BY THE ENGINEER. RECESSED PANEL BOARDS SHALL BE INSTALLED FLUSH WITH THE WALL FINISH. METER BASES SHALL COMPLY WITH THE UTILITY'S SPECIFICATIONS AND SHALL BE MOUNTED AT A HEIGHT APPROVED BY THE UTILITY. ALL EQUIPMENT IDENTIFIED FOR SERVICE ENTRANCE USE SHALL BE SO LABELED AND UL LISTED FOR SUCH USE. ELECTRICAL CONTRACTOR SHALL INCLUDE ELECTRICAL EQUIPMENT WITH CLEARANCES PER NEC 110.26. ELECTRICIAN SHALL PERMANENTLY LABEL EQUIPMENT PER NEC 110.24.
- ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, Eaton, OR GE. ENCLOSED SWITCHES SHALL HAVE A HANDLE LOCKABLE IN THE OFF POSITION AND SHALL HAVE A HANDLE INTERLOCKED TO PREVENT OPENING THE FRONT COVER WHILE IN THE ON POSITION. ENCLOSED SWITCHES OF THE FUSIBLE TYPE SHALL BE FUSED IN ACCORDANCE WITH NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY Bussman, ULTAFUSE, OR MERSON. OCCUPANCY SENSORS SHALL BE BY WATTSTOPPER, LUXEON, SENSORS SWITCH, LOGEL, OR APPROVED EQUAL. CIRCUIT BREAKERS SHALL BE MOLDEX-250E, THOMSON, MAGNETIC TYPE WITH 1/2" QUARTER, QUICK-BREAK MECHANISM, COMMON TRIP ON MULTI-POLE BREAKERS, AND UL LISTED FOR BOTH COPPER AND ALUMINUM CONDUCTORS. CIRCUIT BREAKERS IN PANELS SHALL BE SERIES RATED WITH THE MAIN BREAKER, FULLY RATED FOR THE SYSTEM, OR SERIES RATED WITH THE BREAKER FEEDING THE PANEL FROM THE FACTORY.
- ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUCTORS ARE RUN IN PARALLEL, LUGS SHALL BE LISTED FOR PARALLEL CONDUCTORS. PUSH WIRE CONNECTORS ARE NOT ALLOWED FOR BUILDING WIRE. PUSH CONNECTORS ARE ONLY ALLOWED, WHEN APPROVED, AS PART OF MANUFACTURED LISTED PRODUCTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED THHN/THWN OR XHHW-1. ALL WIRING INSTALLED BELOW GRADE OR IN MOST OR WET LOCATIONS SHALL HAVE TYPE THHN OR XHHW INSULATION. INSULATION VOLTAGE RATING SHALL BE 600 VOLTS AND A MINIMUM TEMPERATURE RATING OF 75°. CONDUCTORS SHALL BE SOLID OR STRANDED COPPER FOR 4/0 AWG AND 4/0 AWG, AND STRANDED COPPER FOR 4/0 AWG AND SMALLER SIZES. ALL WIRING AND CABLE SHALL BE UL LISTED. ALL TERMINATIONS AND JOINTS SHALL BE RATED FOR USE WITH 75°C CONDUCTORS. RIVAL CONNECTIONS TO ALL MOTORS AND EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH STRANDED COPPER CONDUCTORS. CONDUCTORS SHALL BE BY CERRO WIRE, INC. INDUSTRIAL WIRE & CABLE, INC. ENCORE WIRE CORPORATION, OR SOUTHWIRE COMPANY.
- JOINTS IN SOLID CONDUCTORS SHALL BE SPLICED USING IDEAL "WIRE NUTS," 3M "SCOTCH LOCK," OR THE "PB" TRIGG CONNECTORS IN JUNCTION BOXES, OUTLET BOXES, AND LIGHTING FIXTURES. JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY APPROVED MECHANICAL CONNECTORS AND GUN BURETS TYPE OR FRICTION TYPE. DISCONNECT MECHANICAL CONNECTORS FOR SPLICES AND TAPS, PROVIDED WITH APPROVED INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE. IN ALL CASES, CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUSERS, OR GUTTERS. WHERE CONCENTRIC, ECCENTRIC, OR OVERSIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING TYPE INSULATED BUSHING SHALL BE PROVIDED.
- ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN NET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. RIVAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS MEETING ANSI C82.11 FOR ELECTRONIC BALLAST PERFORMANCE. ALL BALLASTS SHALL BE UL LISTED AND MEET FEDERAL AND STATE EFFICIENCY REQUIREMENTS.
- ALL CONDUIT, FITTINGS, COUPLINGS, AND SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUIT FITTINGS AND COUPLINGS SHALL BE BY AMPHENOL, RACO, OR O-200000. COUPLINGS SHALL BE THREADED, SET-SCREW, OR COMPRESSION TYPE. INSERTION OR CLAMP TYPE ARE NOT PERMITTED. CONDUIT FITTINGS AT ALL ELECTRICAL BOXES INCLUDING PULL, JUNCTION, AND OUTLET BOXES, SHALL HAVE INSULATED THROATS TO PREVENT INSULATION SCORING. DIE CAST FITTINGS ARE NOT PERMITTED.
- EMT SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE-AMERICAN NATIONAL STANDARD FOR STEEL ELECTRICAL METALLIC TUBING (EMT), ANSI C83.3 AND UL 793. RIBBED METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSA-AMERICAN NATIONAL STANDARD FOR ELECTRICAL RIBBED STEEL CONDUIT (RSC), ANSI C83.1 AND UL 6. INTERMEDIATE METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSA-AMERICAN NATIONAL STANDARD FOR INTERMEDIATE METAL CONDUIT (IMC), ANSI C83.6 AND UL 1249. METAL CONDUIT SHALL BE BY ALUES TUBING & CONDUIT, BECKY MANUFACTURING, INC. OR WHEATLAND TUBE COMPANY. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, AND NONMETALLIC CONDUIT SHALL BE BY APC CABLE SYSTEMS, INC. ELECTRICAL-FILED COMPANY, OR INTERNATIONAL METAL HOSE.

METHODS

- EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONTRACT.
- ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR BREAKERS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4" IN CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP ALL CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT PER 210.4(D) WITH WIRE TIES OR SIMILAR MEANS. DO NOT EXCEED THREE HOMERUNS PER CONDUIT. DO NOT INSTALL ISOLATED GROUND AND NON-ISOLATED GROUND CIRCUITS IN THE SAME CONDUIT. INSTALL CONDUCTORS OF DIFFERENT VOLTAGES IN SEPARATE CONDUITS.
- COLOR CODE CONDUCTORS PER NEC. FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK AND RED FOR PHASES A AND B RESPECTIVELY ON 120/240 VOLT SINGLE-PHASE SYSTEMS AND WHITE FOR THE NEUTRAL. COLORS SHALL BE FACTORY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING RETURN PLenums.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING. COORDINATE LIGHTING LAYOUT

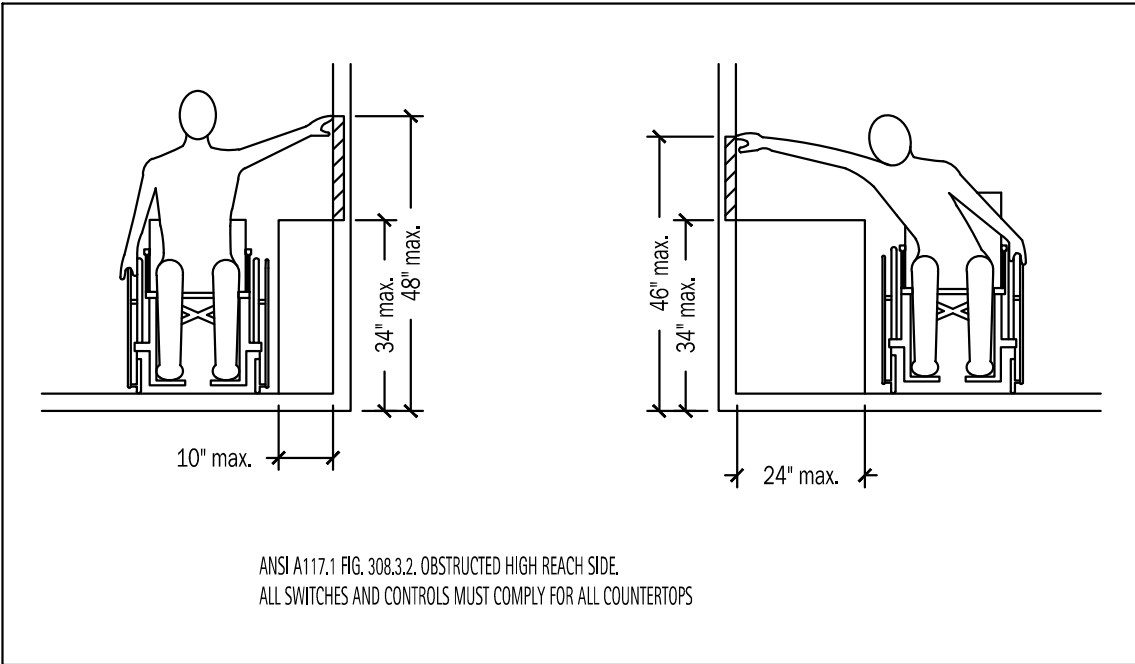
WITH CEILING GRID. MECHANICAL EQUIPMENT, DUCTWORK AND SPRAWLER HEADS AS NECESSARY. SEE REFLECTED CEILING PLAN FOR DETAILS. FLUORESCENT FIXTURES UTILIZING DOUBLE-ENDED LAMPS MUST HAVE A DISCONNECTING MEANS COMPLYING WITH NEC 410.130(D).

- MOUNT LIGHT SWITCHES AT 48" H AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE. VERIFY WALL PLATE COLOR AND MATERIAL WITH THE ARCHITECT/OWNER. INSTALL SWITCHES WITH #6 POSITION DOWN. ALL SWITCHES SHALL BE HEAVY DUTY, IVORY PLASTIC WITH TOGGLE HANDLE, RATED 120-277V AC, AND COMPLYING WITH NEMA WD 6 AND WD 1. SWITCHES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS 6 SEMINOR, OR HUBBELL. PROVIDE BOX DEVE PARTITION/COVERS FOR MULTI-GANG BOXES FOR COMPLIANCE WITH NEC 404(B).
- ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE-STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESERVE OR RESTORE THE FIRE-RESISTANCE RATING. SEAL 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 SPECIFIC TO THIS PROJECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI RECEPTACLES IN KITCHENS, RESTROOMS, OUTDOORS, AND IN SHOP AREAS AS REQUIRED BY NEC. REFRIGERATORS AND WATER COOLERS MUST HAVE A DEDICATED GFCI BREAKER. EACH OUTDOOR HVAC UNIT MUST HAVE A GFCI RECEPTACLE WITHIN 25 FEET FOR SERVING. GFCI RECEPTACLES SHALL CONFORM TO UL 943 CLASS A AND UL 488 STANDARDS. RECEPTACLES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS 6 SEMINOR, OR HUBBELL. ALL RECEPTACLES SHALL BE 125V RATED, HEAVY DUTY, AND COMPLY WITH NEMA WD 6 AND WD 1.
- LOCATIONS AND HEIGHTS OF ALL WALL-MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS OR UNFINISHED AREAS AS NOTED. USE EMT CONDUIT FOR ALL BRANCH CIRCUITS AND FEEDERS INSIDE THE BUILDING. TYPE MC CABLE AND TYPE AC CABLE MAY BE INSTALLED WITHIN WALLS IF ALL NEUTRAL WIRES, ISOLATED GROUND WIRES, AND EQUIPMENT GROUND WIRES AS LISTED ABOVE ARE CONTAINED IN THE CABLE. *** TYPE NM CABLE MAY BE USED FOR INTERIOR BRANCH CIRCUITS IN NORMALLY DRY LOCATIONS SUBJECT TO THE RESTRICTIONS OF NEC 314.10 AND 314.12. TYPE NM CABLE CONDUCTORS SHALL BE DERATED PER NEC 314.8(A). ** FLEXIBLE CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SHALL BE MADE USING WEATHERPROOF FLEXIBLE CONDUIT. FOR 4/0 AWG LIGHT FIXTURES, USE MAXIMUM OF 50' (6 FEET OF FLEXIBLE MC CABLE OR THE FLEXIBLE CONDUIT PROVIDED BY THE FIXTURE MANUFACTURER). SCHEDULE 40 PVC CONDUIT MAY BE USED FOR THE SECONDARY UNDERGROUND SERVICE, UNDERGROUND TELEPHONE SERVICE, AND BRANCH AND FEEDER CIRCUITS UNDER SLAB OR EXTERIOR TO THE BUILDING. EXPOSED EXTERIOR CONDUIT SHALL BE SCHEDULE 80 PVC. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED WITH UNDERGROUND LINE MARKING TAPE 4-8" BELOW GRADE DIRECTLY ABOVE THE RACEWAY. PROVIDE PULL WIRE IN EMPTY CONDUITS. UPSIZE CONDUIT FROM MINIMUM SIZE AS NECESSARY FOR LONGER PULLS. UNDERGROUND RACEWAYS THAT STOP INTO THE BOTTOM OF SWITCHBOARDS, OUTDOOR TRANSFORMERS, GENERATORS, ETC., SHALL RUN AT LEAST 1" ABOVE THE FINISHED SLAB TO PREVENT WATER FROM DRAINING INTO THE RACEWAYS. RACEWAYS THAT PENETRATE EXTERIOR WALLS OR INTERIOR PARTITIONS, SEPARATING SPACES THAT WILL BE AT SIGNIFICANTLY DIFFERENT TEMPERATURES SHALL BE SEALED IN ACCORDANCE WITH 300.5(B), 300.7(A), AND 300.5(E) OF THE NEC. ROUTE CONDUIT IN AND UNDER SLAB FROM POINT-TO-POINT. ROUTE EXPOSED CONDUIT AND CONDUIT INSTALLED ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS, COMPLETELY AND THOROUGHLY SEAL ALL RACEWAYS BEFORE INSTALLING WIRE. PULL ALL CONDUCTORS INTO EACH RACEWAY AT ONE TIME. USE A SURFABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE 4/0 AWG AND LARGER. CABLES, RACEWAYS, OR BOXES INSTALLED IN EXPOSED OR CONCEALED UNDER FLOOR, CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2" H MINUSDED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX. A CABLE, RACEWAY, OR BOX SHALL NOT BE INSTALLED IN CONCEALED LOCATIONS IN METAL-CORRUGATED SHEET DECKING-TYPE ROOF. SEE NEC 300.4(E).
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS. ALL OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED STEEL TYPE BY AMPHENOL, STEEL CITY, OR RACO. EXTERIOR BOXES SHALL BE TYPE CS. WATERTIGHT BOXES SHALL BE TYPE CS. WATERTIGHT SURFACE MOUNTED BOXES ARE USED. THESE BOXES AND THEIR FACEPLATES SHALL HAVE ROUNDED CORNERS. BOXES INSTALLED IN FLOORS SHALL BE RATED FOR THE APPLICATION. MOUNT JUNCTION AND OUTLET BOXES FLUSH WITH FINISH SURFACES UNLESS OTHERWISE NOTED. WHERE MOUNTING HEIGHTS ARE GIVEN, THEY SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX. ALL BOXES SHALL BE SIZED PER NEC ARTICLE 314.4. ALL OUTLET AND JUNCTION BOXES SHALL HAVE A COVER PLATE. PROVIDED BY THE ELECTRICAL CONTRACTOR. OUTLET BOXES IN RATED WALLS SHALL BE INSTALLED IN ACCORDANCE WITH NORTH CAROLINA BUILDING CODE 14-2.2. HANGBOARD BOX SIZES: 16 SQUARE IN AND MAXIMUM OF 50 IN (6) BOXES PER 100 SQUARE FEET. INSTALL OUTLET BOXES IN RATED WALLS SUCH THAT OPENINGS OCCUR IN ONE SIDE ONLY WITHIN ANY GIVEN STUD SPACE. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE EPSIUM BOARD SHALL BE FILLED WITH JOINT COMPOUND OR OTHER APPROVED FIRE STOP MATERIAL. FLUSH MOUNTED JUNCTION BOXES IN ADJACENT ROOMS SHALL NOT BE MOUNTED BACK-TO-BACK. SURFACE MOUNTED FIXTURES SHALL BE FED THROUGH FLUSH MOUNTED 4x4 OCTAGONAL OR SQUARE BOXES.
- ALL CONDUIT, BOXES, AND ELECTRICAL EQUIPMENT SHALL BE PRIMARILY AND SECURELY FASTENED TO OR SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS OR DIMENSIONED IN CONCRETE OR MASONRY. ELECTRICAL SUPPORTS SHALL NOT BE ATTACHED TO DUCTWORK, PIPING, OR OTHER SUPPORTS. HANGERS SHALL BE CATALOG ITEMS COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. FOR METAL ROOF DECK INSTALLATIONS, 1" H EMT CONDUIT MAXIMUM AND 1" H JUNCTION BOXES MAXIMUM MAY BE SUPPORTED BY DECKING. THE SUSPENDED SYSTEM SHALL NOT BE USED FOR THE SUPPORT OF ELECTRICAL RACEWAY SYSTEMS OR SUPPORT OF COMMUNICATIONS OR DATA SYSTEMS WIRING. CONTRACTOR SHALL COMPLY WITH 1613 OF THE NORTH CAROLINA GENERAL CONSTRUCTION BUILDING CODE. WHERE CONDUCTORS ARE RUN IN PARALLEL, THE EC SHALL COMPLY WITH NEC 310.10(B).
- ISOLATED-GROUND TYPE RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH 250.14(D). ISOLATED GROUND RECEPTACLES SHALL BE ORANGE IN COLOR.
- TRANSFER EQUIPMENT SHALL BE LISTED FOR THE PARTICULAR USE (I.E., "EMERGENCY" OR "STANDBY") AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- PROVIDE AN UNDERGROUND PVC CONDUIT SYSTEM FOR TELEPHONE SERVICE WITH PULL WIRES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE UTILITY REGARDING ADDITIONAL FACILITIES REQUIRED FOR THE SERVICE INSTALLATION.
- INSTALL ONE (1) 3/4" H FIRE RETARDANT TREATED PLYWOOD BACKBOARD WHERE INDICATED ON THE DRAWINGS FOR THE USE BY THE TELEPHONE SYSTEM. PROVIDE A 120 VOLT RECEPTACLE ADJACENT TO THE TELEPHONE BOARD. GROUND ALL TELEPHONE AND COMMUNICATIONS CIRCUITS PER NEC 800.
- ALL TELEPHONE AND COMMUNICATIONS OUTLETS AND RACEWAYS ARE ROUGH-IN ONLY. EACH TELEPHONE AND COMMUNICATIONS OUTLET SHALL BE 4 x 4" H DEEP BOX WITH 3/4" H KNOCK-OUTS AND A 3/4" H CONDUIT STUBBED FROM THE OUTLET BOX TO ABOVE THE CEILING. PROVIDE A NON-METALLIC INSULATING BUSHING ON ALL CONDUITS STUBBED ABOVE THE CEILING. PROVIDE A BLANK COVER PLATE ON ALL OUTLET BOXES.
- ELECTRICAL CONTRACTOR SHALL INSTALL DISCONNECT SWITCHES IN SIGHT OF ALL HARDWARE EQUIPMENT AND APPLIANCES OR PROVIDE BREAKERS CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 422.31. FOR MOTOR DRIVEN APPLIANCES, PROVIDE A DISCONNECTING MEANS PER NEC 422.31 AND 430 PART IX, WHERE AN INDIVIDUAL DISCONNECT SWITCH, CIRCUIT BREAKER, STARTER, ETC. IS SHOWN ON THE PLANS ADJACENT TO ITS LOAD AND NOT LOCATED ON A WALL. PROVIDE NECESSARY MATERIALS AND LABOR TO SUPPORT THE DEVICE.
- ELECTRICAL CONTRACTOR SHALL FIELD IDENTIFY ALL SWITCH BOARD, PANEL BOARDS, CONTROL PANELS, WATER SOCKETS, ETC., TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER 1613.6 OF NEC. ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT, AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4" H MINIMUM) ETCHED INTO THE WHITE CORE. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD THAT ACCURATELY IDENTIFIES CIRCUITS INSIDE EACH PANEL. HANDWRITTEN LABELS ARE NOT ACCEPTABLE.
- IN ACCORDANCE WITH SECTION F(1) OF THE NC FIRE PREVENTION CODE, TESTING WILL BE REQUIRED TO DETERMINE SATISFACTORY FIRST RESPONDER RADIO SIGNAL STRENGTH INSIDE EACH BUILDING ON SITE. TESTING WILL NEED TO EITHER BE COMPLETED BY A COUNTY FIRE INSPECTOR (OBTAIN BY REQUESTING A COURTESY INSPECTION) OR A CERTIFIED 3RD PARTY. TESTING SHALL TAKE PLACE AT BOTH 80% PROJECT COMPLETION AND AGAIN AT 100% COMPLETION. IF UNACCEPTABLE SIGNAL DEGRADATION IS PRESENT AT EITHER 80% OR 100% INSPECTION, THEN AN ACCEPTABLE BOOSTER SYSTEM SHALL BE ADDED TO THE BUILDING DESIGN AT THAT TIME.



ANSI A117.1 FIG. 308.3.2, OBSTRUCTED HIGH-REACH SIZE. ALL SWITCHES AND CONTROLS MUST COMPLY FOR ALL COUNTERTOPS

POWER DEVICE LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	DATA AND TELEPHONE JACK	PHONE/DATA OUTLET. EC TO INSTALL 3/4" C WITH PULL-STRING FROM OUTLET BOX TO ABOVE CEILING FOR FUTURE USE. JACKS AND COMMUNICATION CABBING BY OTHERS.
	DUPLEX RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1. GFCI OR AFCI IF NOTED. "WP" DENOTES WEATHERPROOF COVER. "CH" DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596.
	QUAD RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS DUPLEX TYPE ABOVE.
	DEDICATED RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1 UNLESS OTHERWISE NOTED ON PLANS. VERIFY PLUG TYPE PRIOR TO PURCHASE & INSTALLATION. GFCI OR AFCI IF NOTED. "WP" DENOTES WEATHERPROOF COVER. "CH" DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596. MAY BE EITHER SIMPLEX, DUPLEX, OR QUAD.
	DUPLEX FLOOR RECEPTACLE	DUPLEX RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
	QUAD FLOOR RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
	FUSIBLE DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS. FUSE ACCORDING TO NAMEPLATE DATA.
	DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS.
	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 OF THE NEC.



ANSI A117.1 FIG. 308.3.2, OBSTRUCTED HIGH-REACH SIZE. ALL SWITCHES AND CONTROLS MUST COMPLY FOR ALL COUNTERTOPS

LIGHT FIXTURE SCHEDULE										
MARK	DESCRIPTION	LOUVER/LENS	LAMPS		VOLTAGE	MAX INPUT WATTAGE	MOUNTING	REMARKS	MFG	MODEL
			TYPE	CCT						
A	4" 2" LAMP VAPOR PROOF STRIP LIGHT	-	LED	-	120	64	SURFACE	2	EPCO	G-4-LED-FX-S-41-34
B	6" CAN LIGHT	-	LED	-	120	12	RECESSED	2	JUNO	IC22LED-G4-09LM-35K-90CRI-MVOLT
C	CEILING FAN W/O LIGHT KIT	-	LED	-	120	67	SURFACE	2	KICHLER	3102755BK
D	WALL MOUNTED DOWN & UP LIGHT	-	LED	300K	120	40	WALL	2	PROGRESS LIGHTING	P5644-31-30K
FL	FLOOD LIGHT	-	LED	-	120	17	SURFACE	2	COOPER	MSS-15-3T-18
EM	DUAL HEAD EMERGENCY FIXTURE	ACRYLIC	LED	N/A	120	2	VARIES	1,2	LITHONIA	ELM2-LED-SD
EX	EXIT SIGN	ACRYLIC	LED	N/A	120	5	VARIES	1,2	EXIT LIGHT COMPANY	ELSM-RM-R-A-BB-ST-5
EXH	LED EXIT/COMBO W/ BATTERY BACKUP	ACRYLIC	LED	N/A	120	4	VARIES	1,2	EMERGI-LITE	LSNX42NGC
OE	EXTERIOR OVAL LED EMERGENCY LIGHT	POLYCARBONATE	LED	-	120	17	SURFACE	1,2	NICOR	EO1M3W35

- FIXTURE SHALL HAVE BATTERY BACKUP FOR 90 MINUTE ILLUMINATION.
- OR EQUAL BY COOPER, PHILIPS, DAY-BRITE LIGHTING, GE, LITHONIA, OR OWNER APPROVED SELECTION

LIGHTING DEVICE LEGEND		
SYMBOL	DESCRIPTION	REMARKS
⌚	SINGLE POLE WALL SWITCH	HEAVY DUTY, AC ONLY, COMMERCIAL GRADE GENERAL USE SNAP SWITCH COMPLYING WITH NEMA WD 6 AND WD 1. IVORY PLASTIC BODY WITH TOGGLE HANDLE. 120-277V, 20A, MEET FEDERAL SPECIFICATION W-5-896.
⌚	DIMMER SWITCH	COMMERCIAL GRADE, 120V, 1500W
⌚	WALL MOUNTED OCCUPANCY SENSOR	WATTSTOPPER DW-100 LINE VOLTAGE OCCUPANCY SENSOR. ULTRA SONIC AND INFRARED.
⌚	LOW VOLTAGE SWITCH	WATTSTOPPER LVS-1 LOW VOLTAGE MOMENTARY CONTROL SWITCH.
⌚	3 WAY SWITCH	3-WAY TYPE SWITCH WITH SAME CHARACTERISTICS AS SINGLE POLE SWITCH ABOVE.
⌚	CEILING OCCUPANCY SENSOR	WATTSTOPPER, DT-300 LOW VOLTAGE OCCUPANCY SENSOR. 360° ULTRA SONIC AND INFRARED.
⌚	CEILING OCCUPANCY SENSOR	WATTSTOPPER, WT-2255 LOW VOLTAGE OCCUPANCY SENSOR. ULTRA SONIC, 90 LINEAR FT COVERAGE.
⌚	SWITCHING PHOTOSENSOR	WATTSTOPPER, LS-102, CONSULT OWNER FOR FOOT-CANDLE SET POINT.
⌚	POWER PACK	WATTSTOPPER, BZ-150 LOW VOLTAGE POWER PACK FOR CEILING PACK SENSORS.
⌚	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 OF THE NEC.
⌚	EXHAUST FAN	VENT FAN, 120V, CFM AS NOTED MC TO PROVIDE AND VENT, EC TO WIRE.

POWER DEVICE LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	DATA AND TELEPHONE JACK	PHONE/DATA OUTLET. EC TO INSTALL 3/4" C WITH PULL-STRING FROM OUTLET BOX TO ABOVE CEILING FOR FUTURE USE. JACKS AND COMMUNICATION CABBING BY OTHERS.
	DUPLEX RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1. GFCI OR AFCI IF NOTED. "WP" DENOTES WEATHERPROOF COVER. "CH" DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596.
	QUAD RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS DUPLEX TYPE ABOVE.
	DEDICATED RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1 UNLESS OTHERWISE NOTED ON PLANS. VERIFY PLUG TYPE PRIOR TO PURCHASE & INSTALLATION. GFCI OR AFCI IF NOTED. "WP" DENOTES WEATHERPROOF COVER. "CH" DENOTES COUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596. MAY BE EITHER SIMPLEX, DUPLEX, OR QUAD.
	DUPLEX FLOOR RECEPTACLE	DUPLEX RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
	QUAD FLOOR RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
	FUSIBLE DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS. FUSE ACCORDING TO NAMEPLATE DATA.
	DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS.
	JUNCTION BOX	GALVANIZED METAL BOX CONSTRUCTED IN ACCORDANCE WITH 314.40 OF THE NEC.

ELECTRICAL DESIGNER'S STATEMENT			
ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE PRESCRIPTIVE <u>X</u> PERFORMANCE <u> </u> ENERGY COST BUDGET <u> </u>			
LIGHTING SCHEDULE:			
LAMP TYPE REQUIRED IN FIXTURE:	SEE LIGHTING LEGEND		
NUMBER OF LAMPS PER FIXTURE:	SEE LIGHTING LEGEND		
BALLAST TYPE USED IN FIXTURE:	SEE LIGHTING LEGEND		
NUMBER OF BALLASTS IN FIXTURE:	SEE LIGHTING LEGEND		
TOTAL WATTAGE PER FIXTURE:	SEE LIGHTING LEGEND		
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED:	WATTS SPECIFIED	WATTS ALLOWED	
	897.0	1525.10	
OCCUPANCY	AREA (sf)	ALLOWANCE (W/sf)	WATTAGE ALLOWED
LEISURE	1510	1.01	1525.10
TOTAL	1510		1525.10
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS) MOTOR HORSEPOWER: N/A NUMBER OF PHASES: N/A MINIMUM EFFICIENCY: N/A MOTOR TYPE: N/A NUMBER OF POLES: N/A			
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.			
FOR THE ADDITIONAL PRESCRIPTIVE REQUIREMENT REQUIRED BY C406 OF 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WE ARE CHOOSING C406.3 - REDUCED LIGHTING POWER DENSITY.			
897 W SPECIFIED <= 1372 W (1525 W ALLOWED X 90%)			



STATION POINTE

DAN RYAN BUILDERS

ANGIER, NORTH CAROLINA

NO.	REVISION	DATE	
PROJECT #:			240664
DATE ISSUED:			2024 11 12
DRAWING BY:			SLT
CHECKED BY:			JLH

00% I.F.B.

ELECTRICAL
NOTES &



STATION POINTE
DAN RYAN BUILDERS
ANGIER, NORTH CAROLINA

NO.	REVISION	DATE

PROJECT #: 240664
DATE ISSUED: 2024 11 12
DRAWING BY: SLT
CHECKED BY: JLH

00% I.F.B.

POWER &
LIGHTING
PLANS

E2

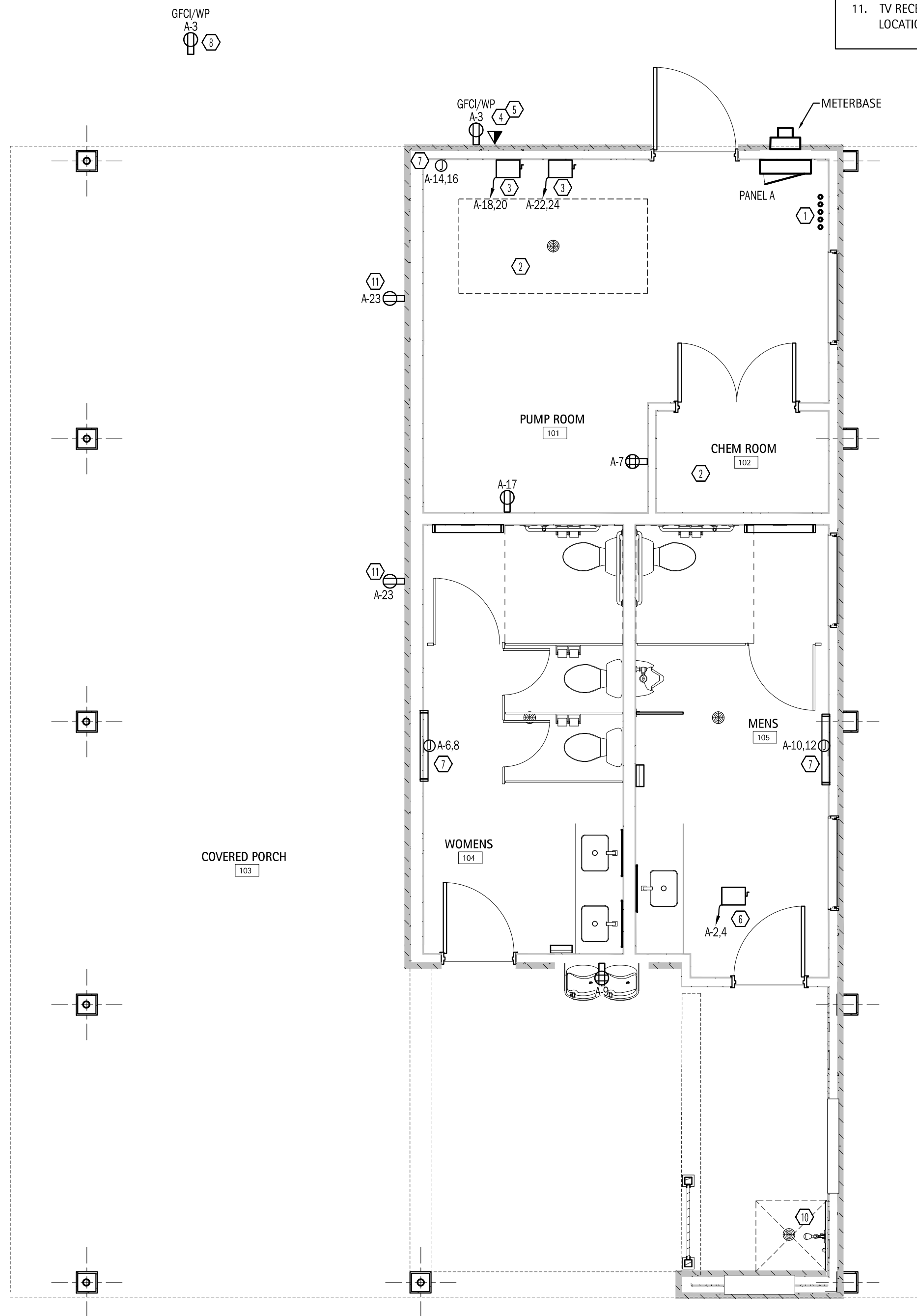
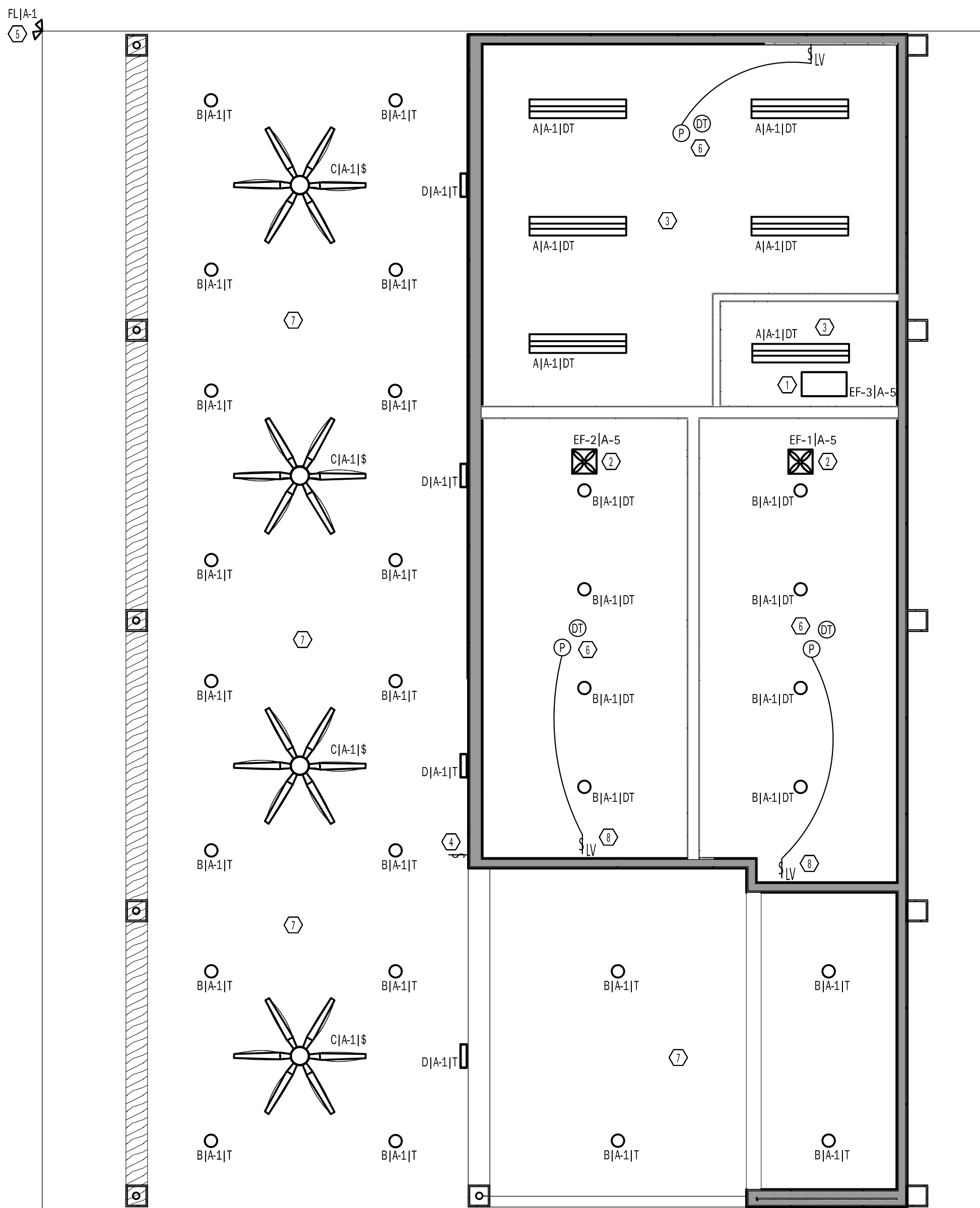
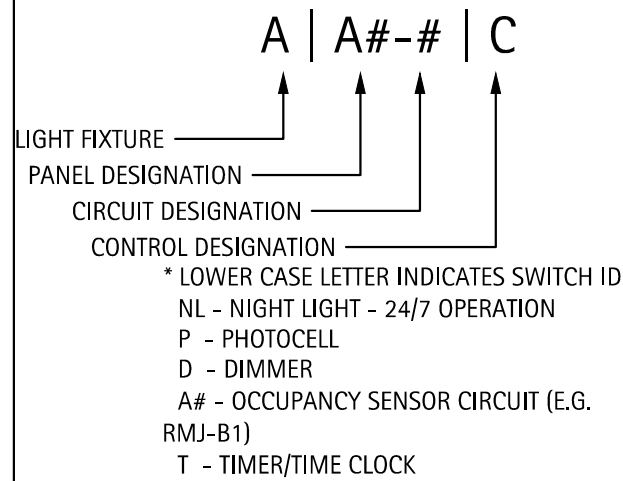
POWER PLAN HEX NOTES

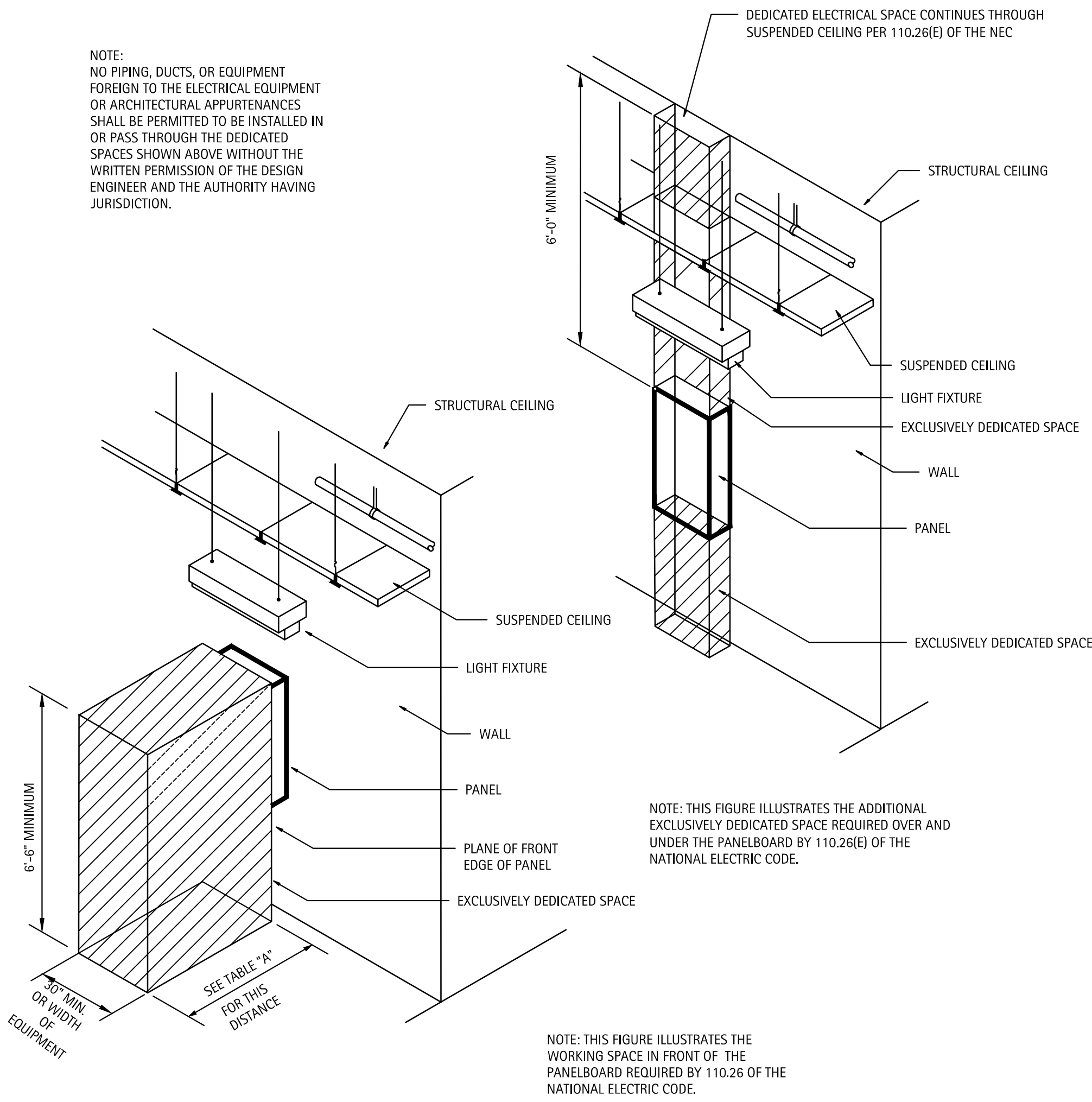
- PROVIDE (2) 1" CONDUITS WITH CIRCUITS AS SHOWN TO POOL FOR POOL LIGHTS AND OTHER POOLSIDE EQUIPMENT. PROVIDE (3) 1" CONDUITS FROM SPARE POOL CIRCUITS AS SHOWN AND CAP RIGHT OUTSIDE ELECTRICAL ROOM. COORDINATE EXACT LOCATIONS WITH G.C. AND POOL CONTRACTOR. CIRCUIT TO BE CONTROLLED VIA TIME CLOCK AT PANEL. POOL LIGHTS TO BE WIRED VIA INTERMATIC JUNCTION BOX TRANSFORMER (MODEL PJBX52100). REFER TO PANEL SCHEDULE FOR CIRCUIT DESIGNATIONS.
- AREA IS CORROSIVE ENVIRONMENT PER NEC 680.14.
- PROVIDE POWER TO NON-FUSED DISCONNECT FOR POOL AND FEATURE PUMPS. PUMPS MUST HAVE GFCI PROTECTION. PROVIDE GFCI BREAKER IN PANEL. DISCONNECT MUST HAVE NEMA 4X RATED ENCLOSURE. COORDINATE EXACT LOCATION AND SPEC WITH G.C. AND POOL CONTRACTOR BEFORE BEGINNING WORK. FINAL CONNECTIONS BY E.C.
- PROVIDE POWER TO EMERGENCY PHONE RECEPTACLE. FIELD VERIFY LOCATION WITH LOCAL AHJ.
- PROVIDE EMERGENCY "PUSH IN" POWER OFF SWITCH FOR POOL PUMPS. VERIFY LOCATION WITH LOCAL AHJ. WIRE TO SHUNT TRIP BREAKERS IN PANEL. SEE PANEL SCHEDULE.
- WATER HEATER DISCONNECT LOCATED ABOVE CEILING.
- FLUSH MOUNT JUNCTION BOX FOR UNIT HEATER.
- E.C. TO COORDINATE WITH POOL CONTRACTOR TO ENSURE A GFCI/WEATHER PROOF RECEPTACLE IS WITHIN 20' OF EDGE OF POOL (BUT NO CLOSER THAN 6') AS REQUIRE BY NEC 680.22(A)(1). PROVIDE ON CIRCUIT 3 IN PANEL A.
- RECEPTACLE IN HOTBOX FOR FREEZE PROTECTION. VERIFY EXACT LOCATION OF HOTBOX WITH UTILITY PLANS BY OTHERS.
- EC TO COORDINATE WITH PC FOR HEAT TRACE ON COLD WATER SUPPLY LINES. USE FREE CIRCUITS IN PANEL A.
- TV RECEPTACLE MOUNTED @ 72" A.F.F. VERIFY EXACT LOCATION/MOUNTING HEIGHT WITH OWNER/ARCHITECT.

LIGHTING PLAN HEX NOTES

- EXHAUST FAN SUSPENDED IN ATTIC TO BE WIRED FOR CONTINUOUS OPERATION. COORDINATE WITH M.C. PROVIDE LOCKABLE BREAKER AT PANEL.
- EC TO TIE EXHAUST FAN AND LIGHTING FIXTURES TO SAME MOTION SENSOR.
- PUMP ROOM AND CHEM. ROOM LIGHTS TO BE TIED TO SAME MOTION SENSOR.
- PROVIDE 60 MINUTE SWITCH FOR FAN. PROVIDE IN WEATHERPROOF ENCLOSURE.
- FLOOD LIGHT HAS BUILT IN MOTION DETECTION. AIM TOWARD POOL DECK.
- MOTION SENSOR TO BE SET ON 20 MINUTE TIMER.
- EC TO LOCATE TIME CLOCK FOR EXTERIOR LIGHTING BESIDE PANEL. VERIFY WITH OWNER FOR SETTINGS.
- BATHROOM SWITCHES TO BE KEYED

LIGHTING CIRCUIT DESIGNATIONS





NOTE: WHERE THE CONDITIONS ARE AS FOLLOWS:

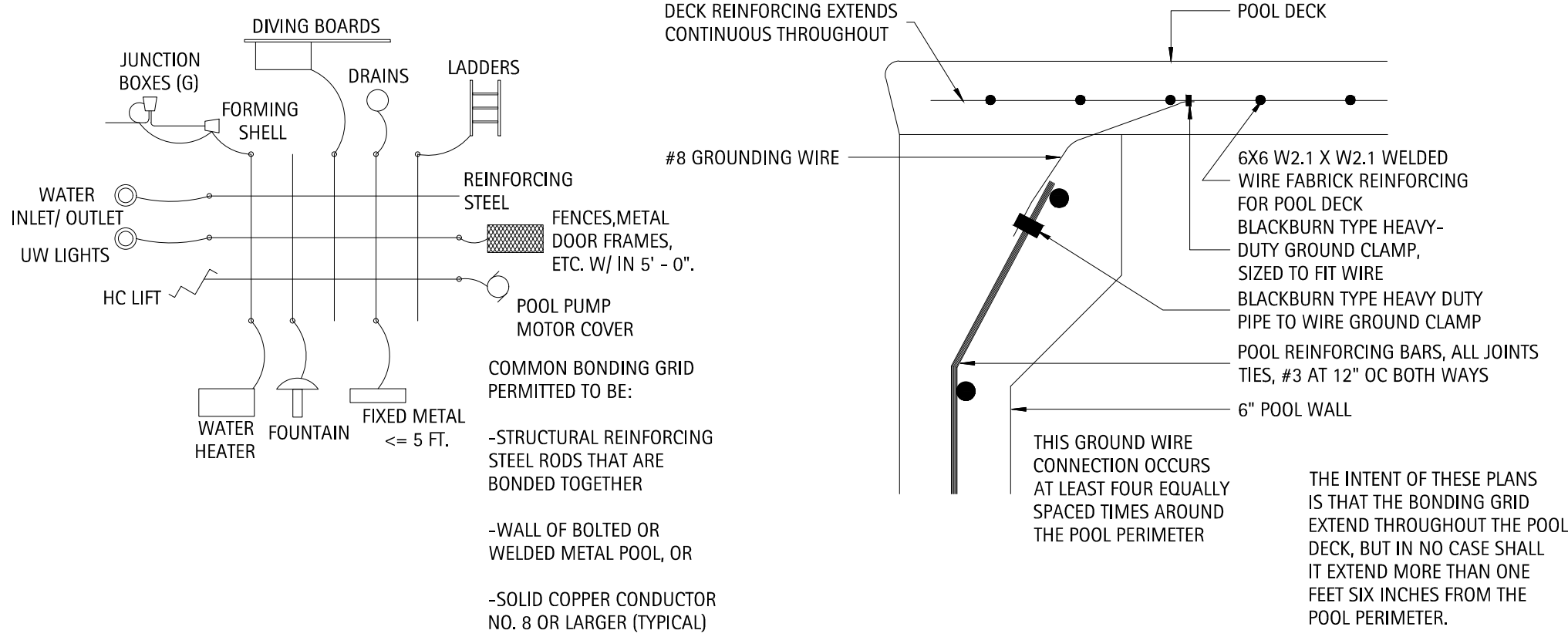
CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.

CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

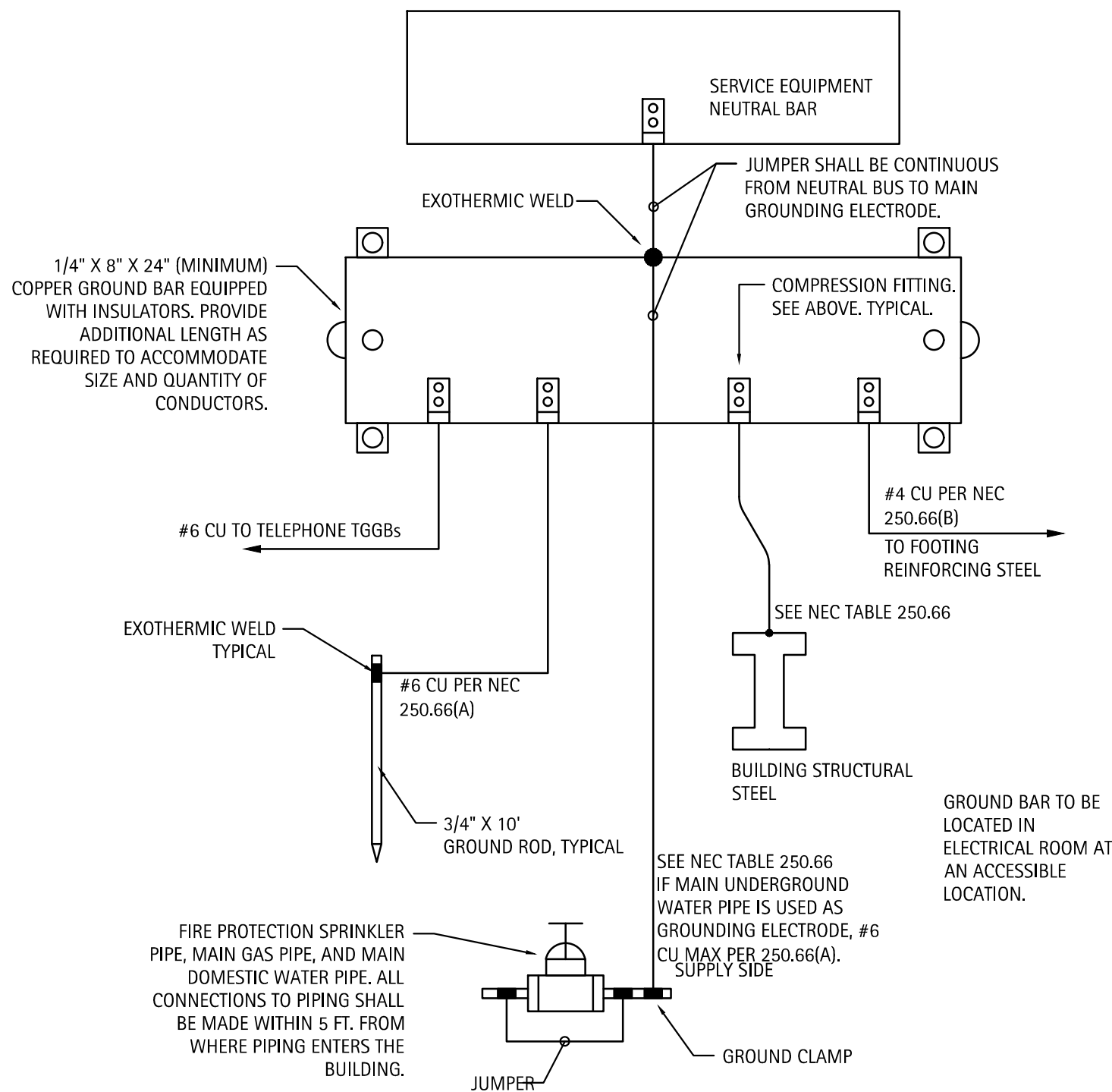
TABLE 110.26(A)(1) WORKING SPACE			
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET)		
	CONDITION 1	2	3
0-150	3	3	3
151-600	3	3-1/2	4

REQUIRED CLEARANCES - NO SCALE

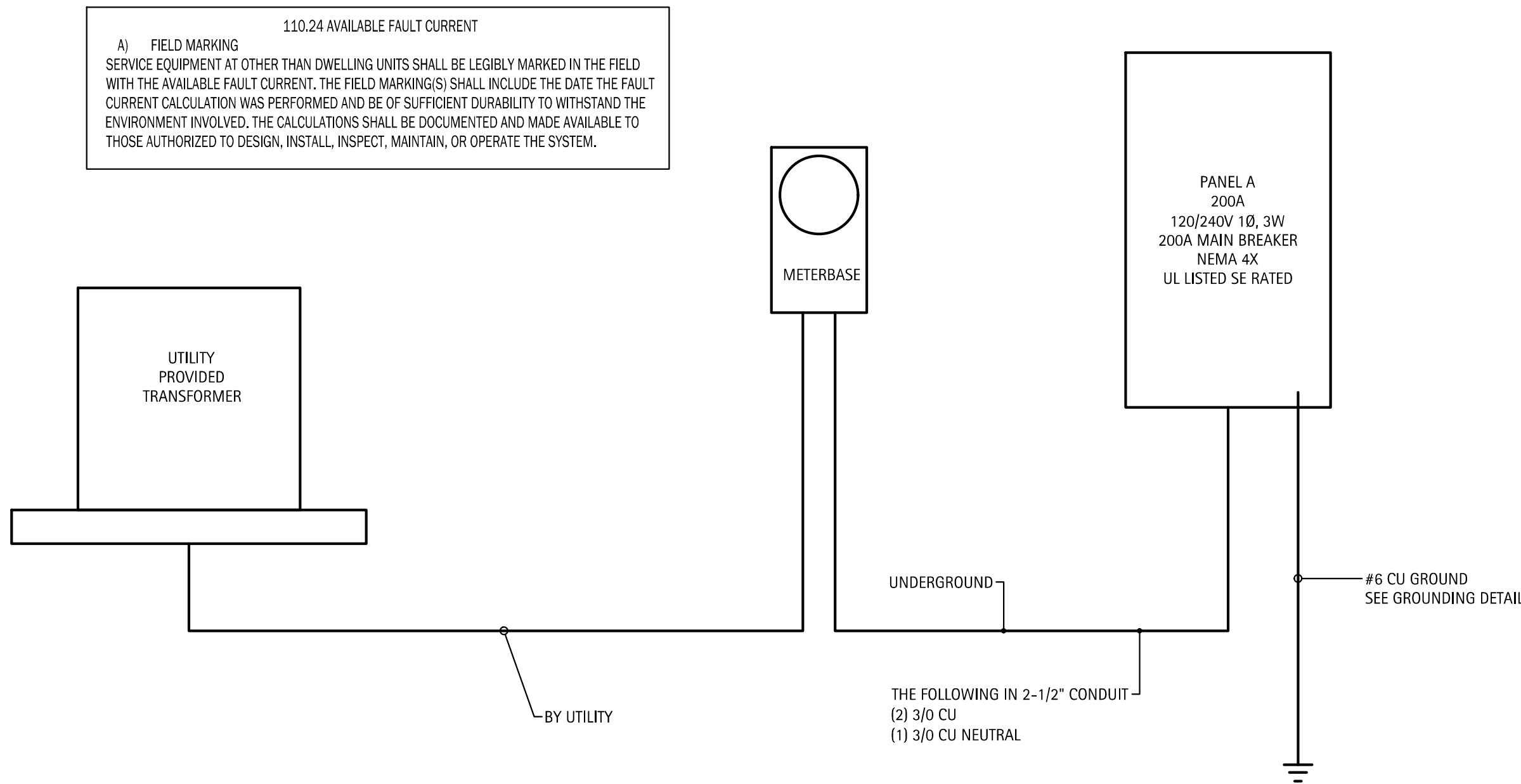


SWIMMING BONDING RISER DETAIL - NO SCALE

EQUIPOTENTIAL BONDING GRID DETAIL - NO SCALE



GROUNDING DETAIL - NO SCALE



POWER RISER - NO SCALE

PANEL A									
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD	CKT	
1	LIGHTING	20/1	1.17	A	2.25	30/2	WH-1	2	
3	EM PHONE/POOL DECK RECEPT.	20/1	0.36	B	2.25			4	
5	EXHAUST FANS	20/1	0.47	A	1.50			6	
7	PUMP RM RECEPTACLE	20/1	0.36	B	1.50	20/2	UH-1	8	
9	WATER FOUNTAIN	20/1	0.48	A	1.50	20/2	UH-2	10	
11	HOTBOX RECEPTACLE	20/1	0.18	B	1.50			12	
13	POOL LIGHTS & ACCESSORIES	20/1	1.20	A	1.65			14	
15	POOL LIGHTS & ACCESSORIES	20/1	1.20	B	1.65	30/2	UH-3	16	
17	SALT CHLORINATOR	20/1	0.36	A	2.04	35/2	3 HP POOL PUMP	18	
19	POOL SPARE	20/1	0.00	B	2.04			20	
21	POOL SPARE	20/1	0.00	A	2.04			22	
23	TV RECEPTACLES	20/1	0.36	B	2.04	35/2	3 HP POOL PUMP	24	
25	SPACE	20/1	0.00	A	0.00	20/1	POOL SPARE	26	
27	SPACE	--	0.00	B	0.00	--	SPACE	28	
29	SPACE	--	0.00	A	0.00	--	SPACE	30	
31	SPACE	--	0.00	B	0.00	--	SPACE	32	
33	SPACE	--	0.00	A	0.00	--	SPACE	34	
35	SPACE	--	0.00	B	0.00	--	SPACE	36	
37	SPACE	--	0.00	A	0.00	--	SPACE	38	
39	SPACE	--	0.00	B	0.00	--	SPACE	40	
41	SPACE	--	0.00	A	0.00	--	SPACE	42	
			kVA	PH	AMP S				
			14.7	A	122				
			13.4	B	112				
VOLTAGE/PHASE					120/240,1P,3W				
BUS RATING					200A				
MAIN CIRCUIT BREAKER RATING					200A MAIN BREAKER				
AIC RATING					22K - EC TO VERIFY				
SERVICE ENTRANCE RATED					YES				
ENCLOSURE					NEMA 4X				
MOUNTING					SURFACE				

○ DENOTES GFCI BREAKER

NEC ELECTRIC DEMAND SUMMARY 120/240V,1P,3W					
EQUIPMENT	DEMAND FACTOR	kVA		LOAD kVA	NOTES/CALCULATIONS
		A	B		
LIGHTING	125%	1.30	1.30	2.60	220.12 1510 SF X 1.4 VA/SF X 1.25
RECEPTACLES < 10 kVA	100%	0.80	1.30	2.10	220.44
HVAC	100%	5.12	4.65	9.77	-- BASED ON MCA
WATER HEATER	125%	2.25	2.25	4.50	422.13 STORAGE TANK <120 GAL @ 125%
POOL EQUIPMENT	100%	5.28	5.28	10.56	430.24 LARGEST MOTOR @ 125%
DEMAND kVA PER PHASE		14.75	14.78		
DEMAND AMPS PER PHASE		123	123		

THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.



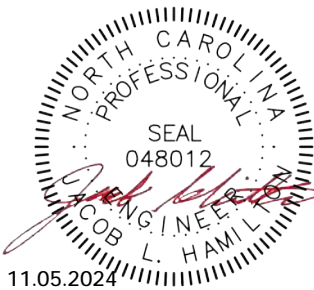
DATE	
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NO.	

PROJECT #: 240664
DATE ISSUED: 2024 11 12
DRAWING BY: SLT
CHECKED BY: JLH

00% I.F.B.

POWER RISER
& PANEL
SCHEDULES

E3



STATION POINTE AMENITY

DAN RYAN BUILDERS
ANGIER, NORTH CAROLINA

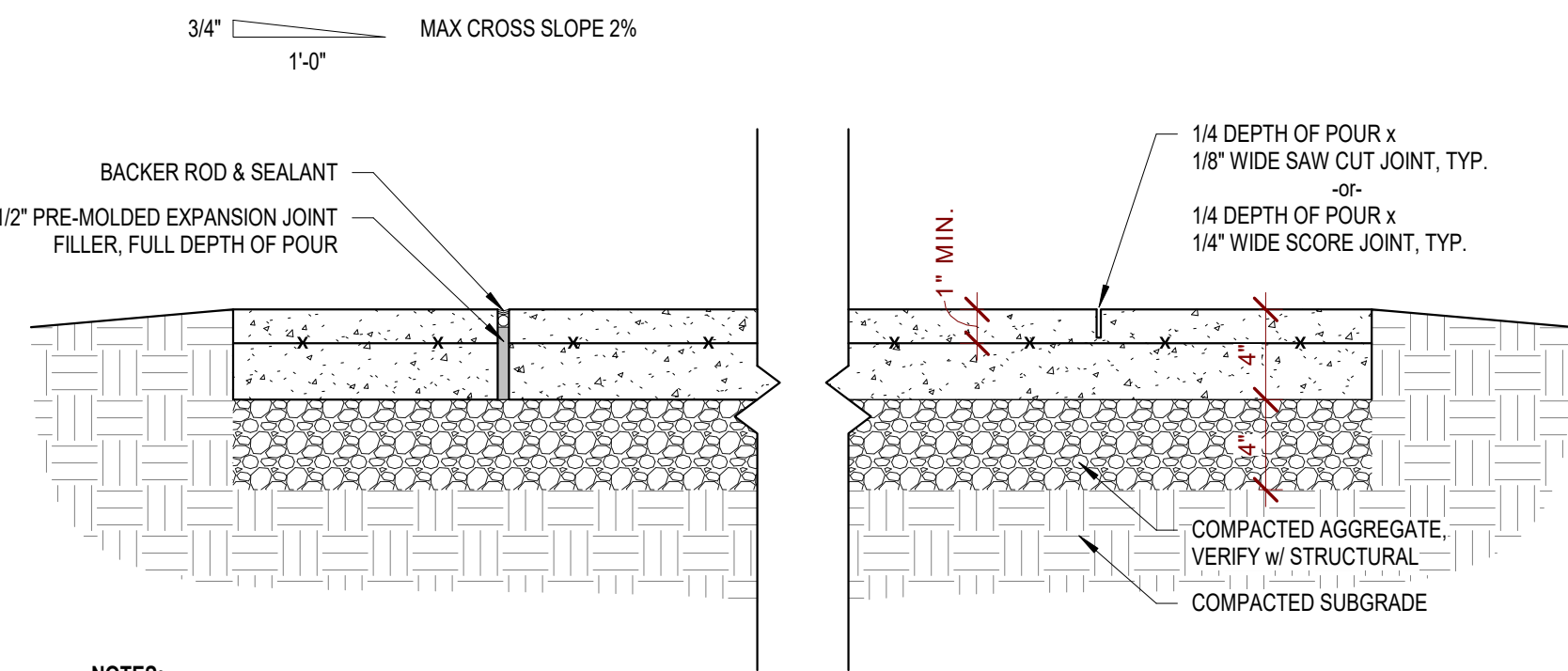
NO.	REVISION	DATE

PROJECT #:	2024020
DATE ISSUED:	11/01/2024
DRAWING BY:	JVD
CHECKED BY:	DSC/JLH

BATHHOUSE F.B.

CONTROL JOINT
& DIMENSION
PLAN

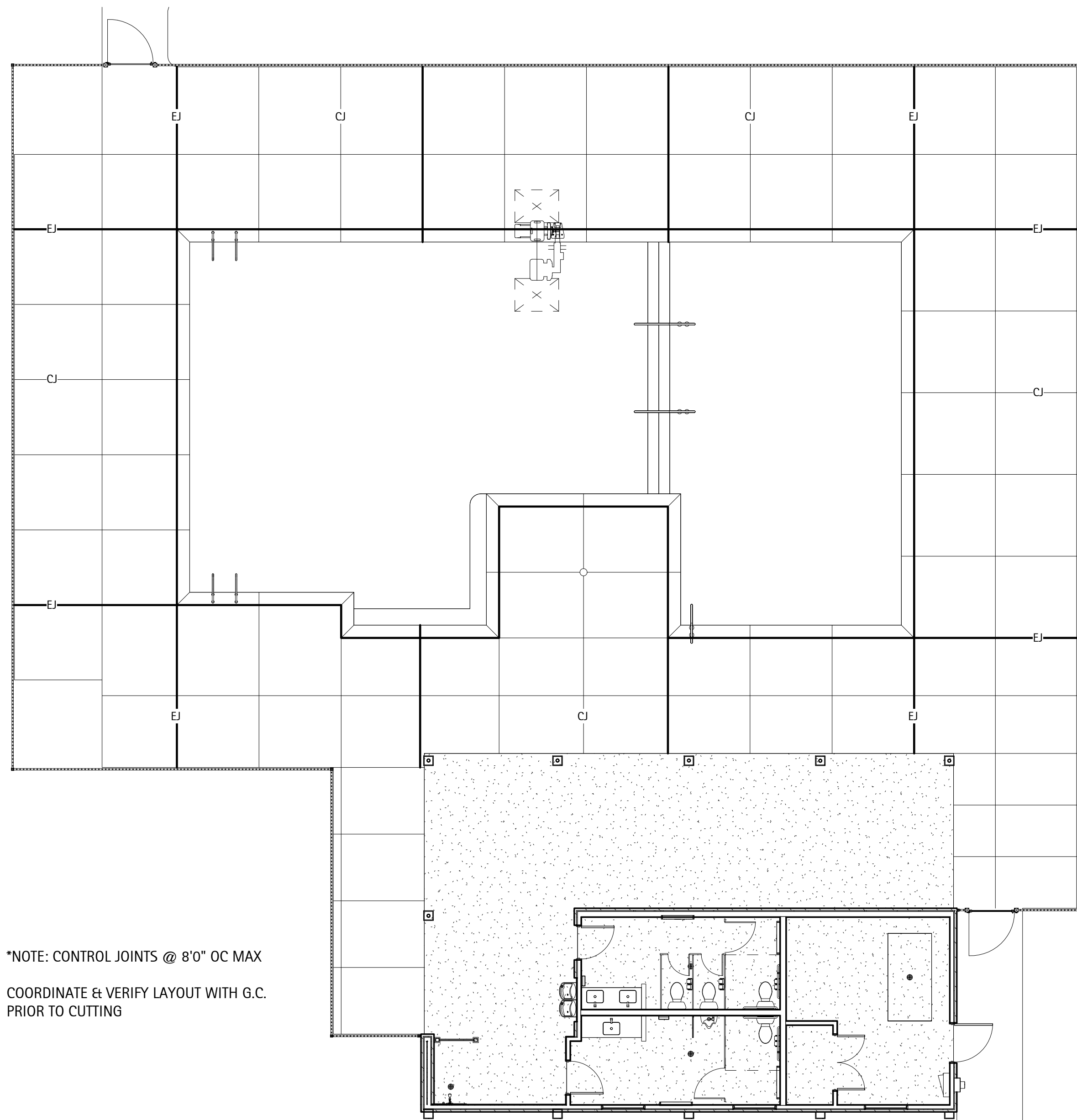
SP1.0



NOTES:

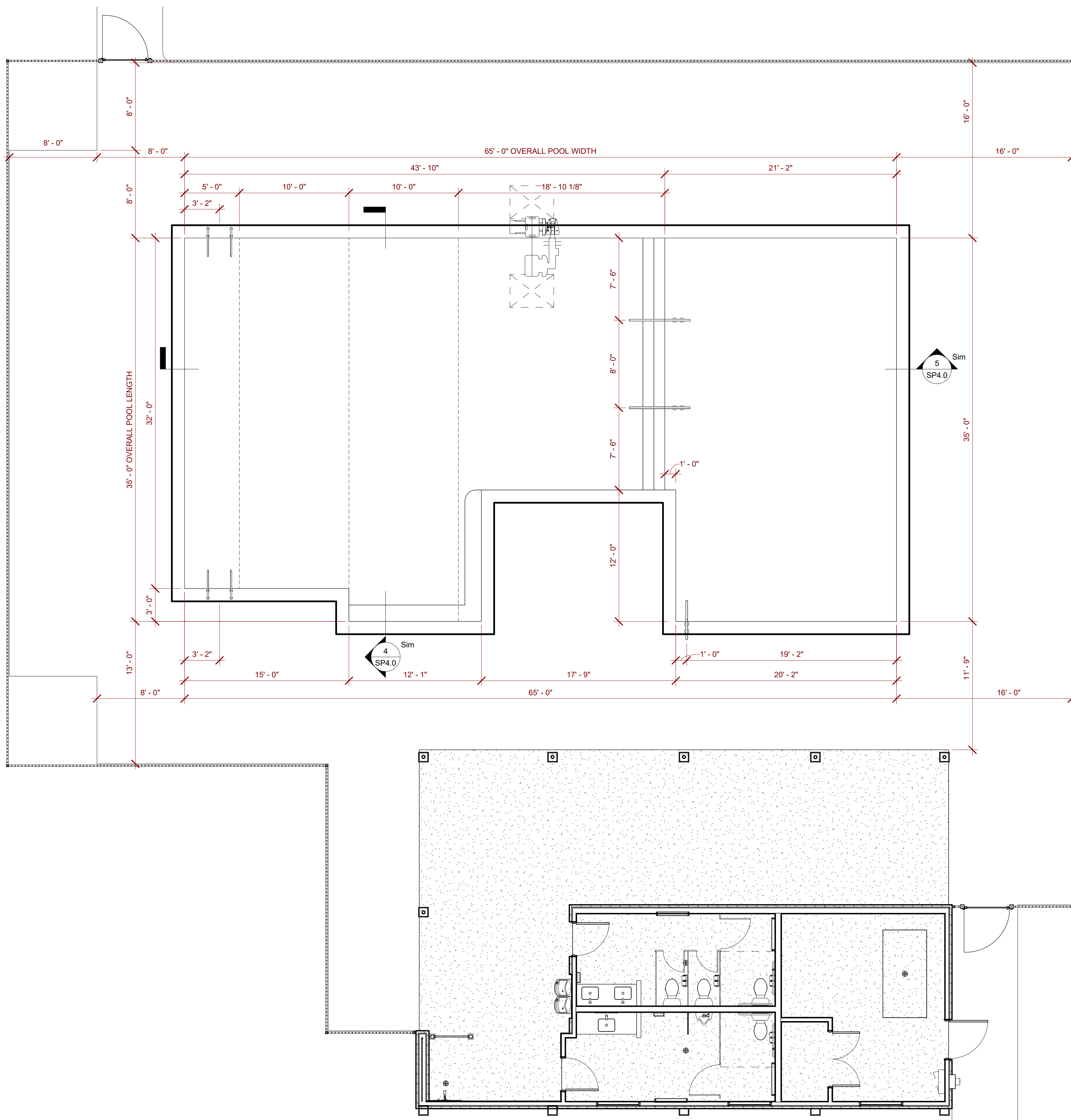
- ALL JOINTS TO BE CUT W/ WET WALK BEHIND SAW TO ENSURE ALL CUTS ARE PERPENDICULAR W/ FACE OF CONCRETE
- MAXIMUM CONTROL JOINT SPACING SHALL BE 10 FT. IN EACH DIRECTION UNLESS SHOWN OTHERWISE ON PLAN. SEE STRUCT.
- PROVIDE EXPANSION JOINT WHERE SLABS ARE POURED AGAINST VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS AND AS SPECIFIED ON PLANS OR 25'-0" MAX O.C.

2 Detail - Typ. Pool Concrete Joints
1 1/2" = 1'-0"

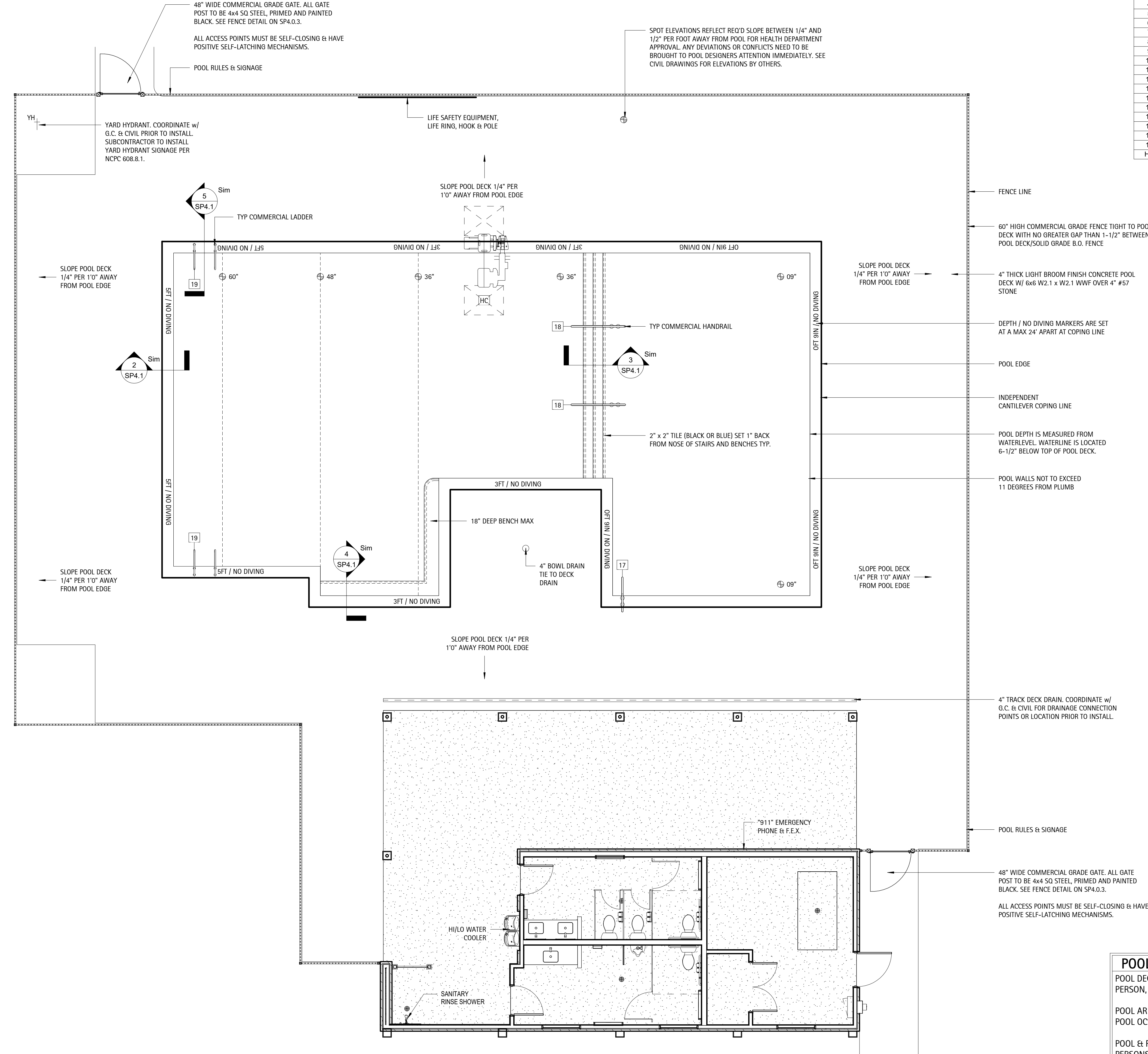


*NOTE: CONTROL JOINTS @ 8'0" OC MAX
COORDINATE & VERIFY LAYOUT WITH G.C.
PRIOR TO CUTTING

3 Pool Control Joint Plan
1/8" = 1'-0"



1 Pool Dimension Plan
3/16" = 1'-0"



Overall Pool Layout Plan
1 SP2.0
3/16" = 1'-0"

POOL EQUIPMENT SCHEDULE				
TAG	COUNT	MANUFACTURER	MODEL	COMMENTS
1	1	PENTAIR	WHISPERFLOXF VS (22035)	5 HP SELF-PRIMING PUMP W/ STRAINER BASKET + EXTRA BASKET
2	1	PENTAIR	147400	TANDEM FILTER PIPING KITS FOR 2 & 3 IN FILTERS
3	2	PENTAIR	TR-140-C3	36" DIA HIGH RATE SAND FILTER W/ 7.61 SQ FT OF MEDIA
4	1	PENTAIR	HC-3315	HIGH CAPACITY CHLORINE/BROMINE FEEDER
5	1	FLO-VIS	FV-3-40	3" INLINE COMMERCIAL FLOW METER
6	2	AQUASTAR	WA99WR101 W/ FBS-50-809-3	99"x9" VGB SUCTION OUTLET COVER W/ A.S.A. MFG FIBERGLASS SUMP
7	1	AQUASTAR	HVC101	SELF-CONTAINED HYDROSTATIC RELIEF VALVE
8	6	PENTAIR	BERMUDA	WHITE COMMERCIAL GRADE SKIMMER
9	1	AQUASTAR	ES1022SI2001 W/ VLK15T01	VACUUM LINE FITTING W/ LOCK CAP
10	1	AQUASTAR	GDD101	COMMERCIAL OVERFLOW DRAIN
11	9	AQUASTAR	ES1022SI2001 W/ 8101	WALL RETURN INLET - DIRECTIONAL
12	3	AQUASTAR	ES1022SI2001 W/ BP101	FLOOR RETURN INLET W/ BUBBLER PLATE
13	1	AQUASTAR	AFB101	FILLSTAR - AUTOFILL LINE - WHITE
14	2	PENTAIR	620428	12W EQUIVALENT MICROBRITE WHITE LED LIGHT
15	2	PENTAIR	602141	500W EQUIVALENT INTELLIBRITE WHITE LED LIGHT
16	2	INTERMATIC	PJB4175	4 LIGHT CONNECTION POOL & SPA JUNCTION BOX
17	1	SR SMITH	DMS-101B - MG	MARINE GRADE DECK MOUNTED HANDRAILS - SHORT
18	2	SR SMITH	DMS-102B - MG	MARINE GRADE DECK MOUNTED HANDRAILS - STANDARD
19	2	SR SMITH	10054-MG	MARINE GRADE DECK MOUNTED COMMERCIAL LADDER
HC	1	SR SMITH	MULTI-LIFT	ADA COMPLIANT MULTI-LIFT

POOL SAFETY REQUIREMENTS

PROVIDE SAFETY PROVISIONS PER SECTION .2530. THE MINIMUM BEING: MINIMUM BEING:

A. (2) 12' LONG, MIN., METAL POLES AND BODY HOOKS SECURELY ATTACHED. THE POLE SHALL BE NON-TELESCOPING, NON-ADJUSTABLE & NON-COLLAPSIBLE.

B. (2) U.S. COAST GUARD APPROVED RING BUOYS WITH 50'-0" OF 1/4" DIAMETER THROWING ROPE.

EMERGENCY TELEPHONE SERVICE:

A. TELEPHONE CAPABLE OF DIRECTLY DIALING 911 OR OTHER EMERGENCY NOTIFICATION SYSTEM SHALL BE PROVIDED.

B. THE TELEPHONE SHALL BE PERMANENTLY AFFIXED TO A LOCATION INSIDE THE POOL ENCLOSURE OR OUTSIDE THE ENCLOSURE WITHIN 75' OF THE BATHER ENTRANCE.

C. THE TELEPHONE SHALL BE VISIBLE FROM WITH THE POOL ENCLOSURE OR A VISIBLE SIGN SHALL BE POSTED INDICATING THE LOCATION OF THE EMERGENCY PHONE.

D. AT THE TELEPHONE - PROVIDE A SIGN WITH LEGIBLE LETTERS PROVIDING THE FOLLOWING INFORMATION.

- a. - DIALING INSTRUCTIONS
- b. - ADDRESS OF THE POOL LOCATION
- c. - TELEPHONE NUMBER OF THE POOL LOCATION.

SEE POOL HOUSE PLANS BY OTHERS FOR EXACT LOCATION OF THE TELEPHONE SERVICE.

POOL DECK SIGNAGE REQUIREMENTS

POOL SIGNAGE TO BE POSTED IN THE MAIN POOL AREA:

SIGN "A" - 4" TALL LETTERS WARNING - NO LIFE GUARD ON DUTY

SIGN "B" - 1" TALL LETTERS - A MIN. OF (2) THIS PROJECT

POOL SAFETY RULES

- CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION.
- ADULTS SHOULD NOT SWIM ALONE.
- PETS ARE PROHIBITED IN THE POOL AREA.
- GLASS CONTAINERS ARE PROHIBITED IN THE POOL AREA.
- NO DIVING IS ALLOWED IN POOL AREA

SIGN "C" - PROVIDE A SIGN VISIBLE UPON ENTERING THE POOL ENCLOSURE DIRECTING POOL USERS TO SHOWER BEFORE ENTERING THE POOL.

SIGN "D" - PROVIDE A SIGN STATING "POOL CLOSED" FOR EVERY POOL ENTRANCE. VERIFY WITH FINAL POOL ENCLOSURE DESIGN FOR FINAL NUMBER OF ENTRANCES.

POOL CONSTRUCTION NOTES

- SUBMISSION OF GROUNDING AND BONDING REPORT BY CONTRACTOR TO ENGINEER OF RECORD FOR REVIEW IS REQUIRED.
- SUBSTITUTIONS MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.
- ANY COSTS INCURRED DUE TO DEVIATIONS FROM THE PLANS NECESSITATING DRAWING REVISIONS SHALL BE BORNE BY THE CONTRACTOR/OWNER.
- THE CONTRACTOR IS REQUIRED TO COMPREHENSIVELY DOCUMENT THE POOL CONSTRUCTION PROCESS, ENSURING THAT PICTURES ACCURATELY DEPICT THE LOCATION ON THE SITE BY INCLUDING IDENTIFIABLE BACKGROUND FEATURES. THIS DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO, PHOTOGRAPHING THE GROUNDING/BONDING OF ALL EQUIPMENT BEFORE THE SHOTCRETE IS POURED, RETAINING CUT SHEETS FOR ALL EQUIPMENT, AND COMPLETING ALL INSPECTION REPORTS, AMONG OTHER TASKS.
- PRIOR TO THE CONSTRUCTION OF THE POOL, THE CONTRACTOR IS REQUIRED TO CONSULT WITH THE ENGINEER OF RECORD OR A DESIGNATED ENGINEER TO COORDINATE THE NECESSARY SITE INSPECTIONS IN COMPLIANCE WITH NC 15A NCAC 18A .2500.
- SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR DEVIATE FROM THE APPROVED DESIGN PLANS, THEY SHALL INDEMNIFY AND HOLD HARMLESS THE ARCHITECT, ENGINEER OF RECORD AND DESIGNER TO THE FULLEST EXTENT PERMITTED BY LAW.

POOL DECK MARKINGS

DEPTH MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:

- LOCATED ON TOP OF POOL DECK AND AT OR ABOVE THE WATER SURFACE ON THE VERTICAL WALL.
- SHALL BE IN ARABIC NUMERALS AT LEAST 4" HIGH AND OF A COLOR CONTRASTING W/ THE BACKGROUND.
- MARKINGS SHALL INDICATE THE DEPTH OF THE POOL IN FEET AND SHALL INCLUDE THE WORD "FEET" OR THE SYMBOL "FT" TO INDICATE THE UNIT OF MEASUREMENT.
- MARKINGS IN POOL DECK SHALL PROVIDE A SLIP RESISTANT WALKING SURFACE.
- NOT TO EXCEED 25'-0" IN SPACING ALONG THE PERIMETER OF THE POOL.

"NO DIVING" MARKINGS: IN LOCATIONS AS SHOWN ON THE DRAWINGS AND ADHERING TO THE FOLLOWING:

- NOT TO EXCEED 25'-0" IN SPACING. ALONG COPING EDGE.
- DENOTED IN ONE OF THE FOLLOWING MANNERS:
 - A. CONSISTING OF THE WORDS "NO DIVING" IN LETTERS AT LEAST 4" HIGH AND OF A COLOR CONTRASTING WITH THE BACKGROUND.
 - B. AT LEAST A 6"x6" IN SIZE INTERNATIONAL SYMBOL FOR NO DIVING IN RED AND BLACK ON A WHITE BACKGROUND. (VERIFY WITH MUNICIPALITY)

MAIN POOL DATA

POOL DIMENSIONS:	65' 0" X 35' 0" IREGULAR SHAPE
POOL DEPTHS:	9" SHELF w/ 3' - 5' DEPTH
POOL VOLUME:	39,459 GALLONS
SURFACE AREA:	2,018 SQFT.
PERIMETER:	225' 0" LF
COPING:	225' 0" LF
REQUIRED FLOW:	110 GPM @ 65 TDH
TOTAL DESIGN FLOW:	128 GPM @ 65 TDH
SHELL MATERIAL:	4000 PSI SHOTCRETE
INTERIOR FINISH:	PLASTER
BATHER LOAD:	135 PERSONS
BACKWASH TO:	SANITARY SEWER
WATER SOURCE:	IN-LINE AUTOFILL
PIPE SIZING:	
MAIN DRAINS:	(2) 3" SCH 40 PVC
SKIMMERS:	(6) 3" SCH 40 PVC
VACUUM LINE:	(1) 2" SCH 40 PVC
RETURN INLETS:	(12) 2" SCH 40 PVC
FILTER TYPE:	HIGH RATE SAND
SIZE PROVIDED:	2 @ 7.06 SF (EA) = 14.12
SIZE REQUIRED:	8.54 SF TOTAL
MEDIA CIRC. RATE:	15 GPM/SF
BACKWASH RATE:	15 GPM/SF
TURNOVER RATE:	6 HOURS

BUILDING FIXTURE DATA

TOTAL BATHER LOAD = 2,018/15 = 135
(50% - 50% SPLIT) = 68
CLUBHOUSE & PUMP HOUSE REQUIREMENTS:
MINIMUM FIXTURE REQUIREMENTS ARE:
68 MEN

- 1 LAVATORIES
- 1 WATER CLOSET(S)
- 1 URINAL(S)

68 WOMEN

- 2 LAVATORIES
- 2 WATER CLOSET(S)

1 SHOWERS ARE REQUIRED

SEE ARCHITECTURAL PLANS BY OTHERS FOR RESTROOM LOCATION & LAYOUTS

POOL DECK EXIT REQUIREMENTS

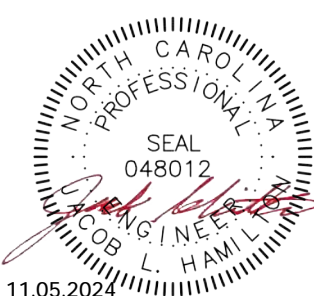
POOL DECK AREA IS 4,348 SF. @ 15 SF PER PERSON, DECK OCCUPANT LOAD IS 290.

POOL AREA IS 2,018 SF. @ 50 SF PER PERSON, POOL OCCUPANT LOAD IS 41.

POOL & POOL DECK OCCUPANT LOAD IS 331 PERSONS.

SEE LIFE SAFETY PLAN FOR BUILDING OCCUPANT LOAD AND EXIT SEPARATION REQUIREMENTS.





STATION POINTE AMENITY

DAN RYAN BUILDERS

ANGIER, NORTH CAROLINA

DATE

REVISION

NO.

PROJECT #: 2024020

DATE ISSUED: 11/01/2024

DRAWING BY: JVD

CHECKED BY: DSC/JLH

BATHHOUSE.F.B.

POOL
ELECTRICAL &
PIPING PLAN

SP3.0

POOL EQUIPMENT SCHEDULE

TAG	COUNT	MANUFACTURER	MODEL	COMMENTS
1	1	PENTAIR	WHISPERFLOXF VS (22035)	5 HP SELF-PRIMING PUMP W/ STRAINER BASKET + EXTRA BASKET
2	1	PENTAIR	147400	TANDEM FILTER PIPING KITS FOR 2 & 3 IN FILTERS
3	2	PENTAIR	TR-140-C3	36" DIA HIGH RATE SAND FILTER W/ 7.61 SQ FT OF MEDIA
4	1	PENTAIR	HC-3315	HIGH CAPACITY CHLORINE/BROMINE FEEDER
5	1	FLO-VIS	FV-3-40	3" INLINE COMMERCIAL FLOW METER
6	2	AQUASTAR	WAV9WR101 W/ FBS-50-809-3	9"x9" VGB SUCTION OUTLET COVER W/ A.S.A. MFG FIBERGLASS SUMP
7	1	AQUASTAR	HVC101	SELF-CONTAINED HYDROSTATIC RELIEF VALVE
8	6	PENTAIR	BERMUDA	WHITE COMMERCIAL GRADE SKIMMER
9	1	AQUASTAR	ES1022SI2001 W/ VLK15T01	VACUUM LINE FITTING W/ LOCK CAP
10	1	AQUASTAR	GDD101	COMMERCIAL OVERFLOW DRAIN
11	9	AQUASTAR	ES1022SI2001 W/ 8101	WALL RETURN INLET - DIRECTIONAL
12	3	AQUASTAR	ES1022SI2001 W/ BP101	FLOOR RETURN INLET W/ BUBBLER PLATE
13	1	AQUASTAR	AFB101	FILLSTAR - AUTOFILL LINE - WHITE
14	2	PENTAIR	620428	12W EQUIVALENT MICROBRITE WHITE LED LIGHT
15	2	PENTAIR	602141	500W EQUIVALENT INTELLIBRITE WHITE LED LIGHT
16	2	INTERMATIC	PJB4175	4 LIGHT CONNECTION POOL & SPA JUNCTION BOX
17	1	SR SMITH	DMS-101B - MG	MARINE GRADE DECK MOUNTED HANDRAILS - SHORT
18	2	SR SMITH	DMS-102B - MG	MARINE GRADE DECK MOUNTED HANDRAILS - STANDARD
19	2	SR SMITH	10054-MG	MARINE GRADE DECK MOUNTED COMMERCIAL LADDER
HC	1	SR SMITH	MULTI-LIFT	ADA COMPLIANT MULTI-LIFT

CHEMICAL STORAGE DATA

CHEMICAL STORAGE REQUIREMENTS FOR A 39,459 GALLON POOL ARE:
5 SF FOR FIRST 10,000 GALLONS OF WATER +
+ 1 SF FOR EACH ADDITIONAL 3,000 GALLONS OF POOL UP TO
100 SF OF STORAGE
+ 10 29,459 / 3,000 SF = 9.82

POOL REQUIRES A MIN OF 15 SF FOR CHEMICAL STORAGE.
-SEE BUILDING PLANS BY OTHERS FOR EXACT LAYOUT. 31 SF PROV.
-SEE DETAIL SP4.0.1 FOR TYP CHEMICAL ROOM SHELVING w/ QUANTITIES

PUMP ROOM & CHEMICAL ROOM NOTES

- ALL PUMPS, CHEMICAL FEEDING APPARATUS AND OTHER MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ENCLOSED IN A WEATHERPROOF STRUCTURE WITH A MINIMUM CEILING HEIGHT OF SEVEN FEET.
- THE EQUIPMENT ROOM SHALL BE PROVIDED WITH A DOOR WITH A PERMANENT LOCK THAT MUST BE KEPT LOCKED WHEN NOT IN USE BY THE POOL OPERATOR.
- VALVES AND CONTROL DEVICES SHALL BE ACCESSIBLE AND VISIBLE TO THE POOL OPERATOR. AT LEAST THREE FEET OF CLEAR WALKWAY SHALL BE PROVIDED TO ALLOW ACCESS TO EQUIPMENT.
- DRAINAGE IN AND AROUND THE EQUIPMENT ROOM SHALL PRECLUDE THE POSSIBILITY OF WATER ENTERING OR ACCUMULATING ON ANY INTERIOR SURFACE OF THE ENCLOSURE. EQUIPMENT ROOM FLOORS SHALL BE SLOPED NOT LESS THAN 1/4" PER FOOT TOWARD THE DRAINS.
- NATURAL CROSS DRAFT OR CONTINUOUS FORCED VENTILATION IS REQUIRED.
- A PERMANENT MEANS OF ACCESS SHALL BE PROVIDED TO ALL EQUIPMENT ROOMS.
- A HOSE BIB WITH AN APPROVED BACKFLOW PREVENTION DEVICE SHALL BE PROVIDED WITHIN 50 FEET OF THE EQUIPMENT ROOM.

UNDERWATER LIGHTING DATA

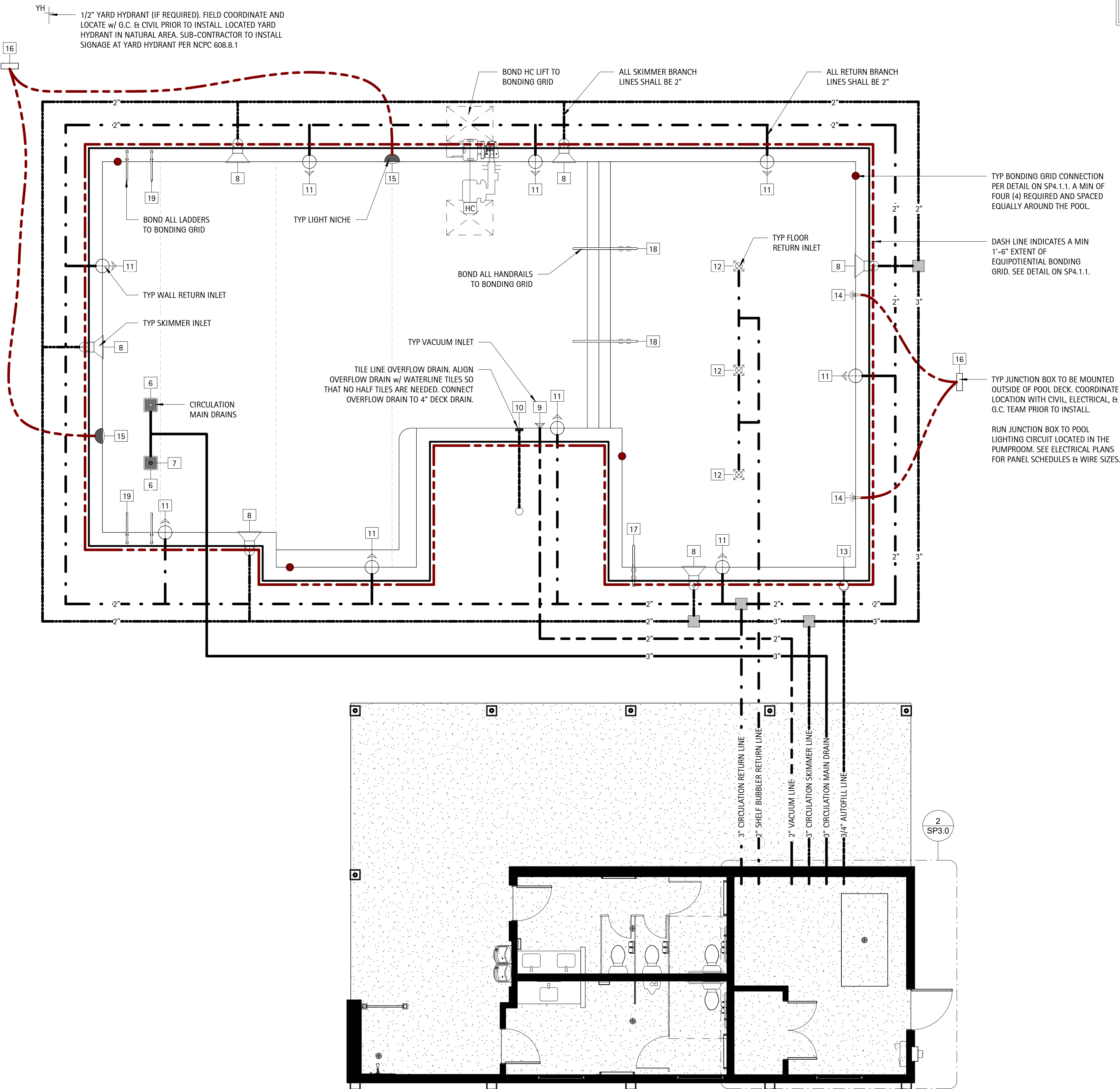
MAIN POOL AREA: 2,018 SQFT.
2,018 SF X 0.5 WATTS = 1,009 WATTS

LIGHTING PROVIDED (12V LED EQ.)
2 MICROBRITE @ 12 WATTS
2 INTELLIBRITE @ 500 WATTS

TOTAL LIGHTING PROVIDED:
1,024 WATTS

PUMP FLOW PIPE SIZING

CIRCULATION:
INTELLIFLO VSF PUMP FLOW AT 65 FT OF WATER IS 128 GPM, WITH SPECIFIED:
3" MAIN DRAIN PIPING VELOCITY IS 5.56 FPS.
3" SKIMMER PIPING VELOCITY IS 5.56 FPS.
3" RETURN PIPING VELOCITY IS 5.56 FPS.

1
SP3.0

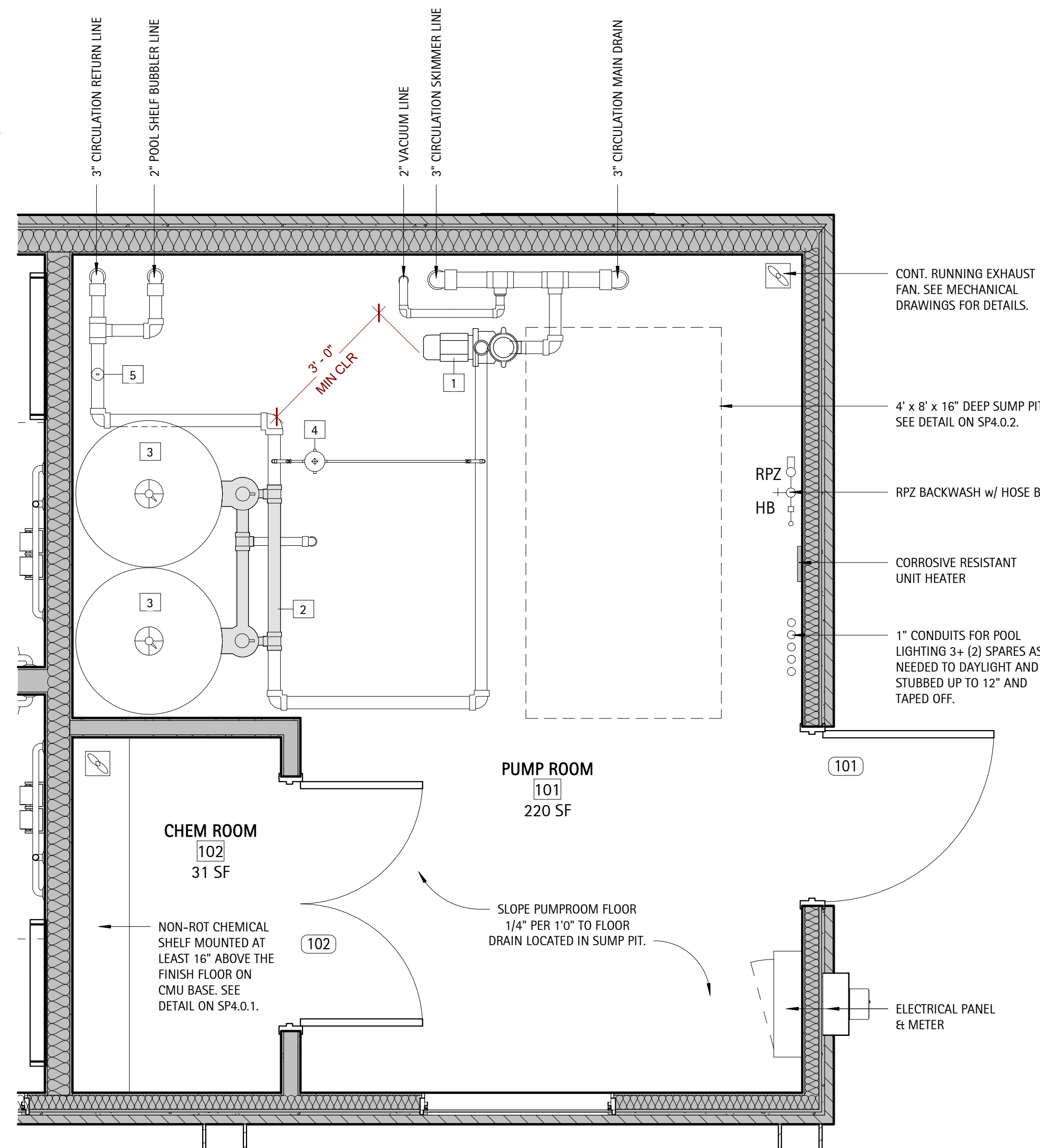
Electrical & Piping Plan

3/16" = 1'-0"

2
SP3.0

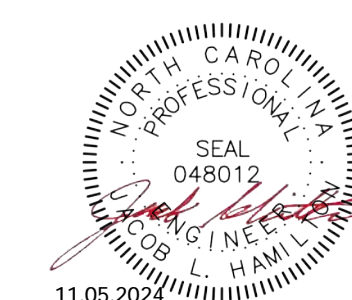
Enlarged Pump Room Plan

1/2" = 1'-0"



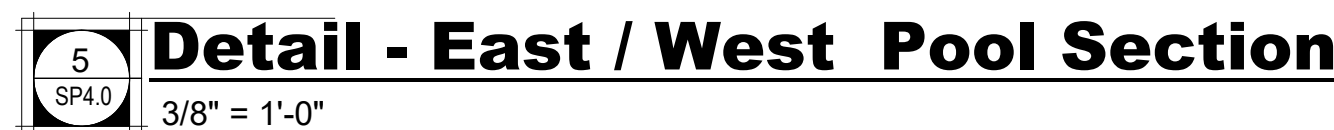
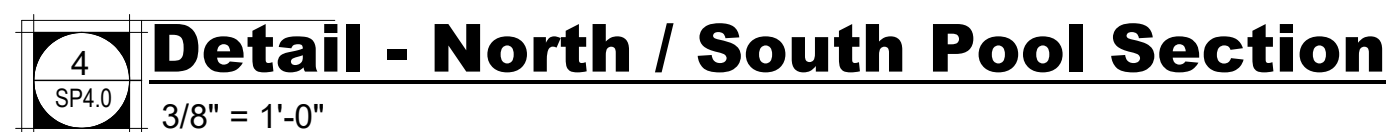
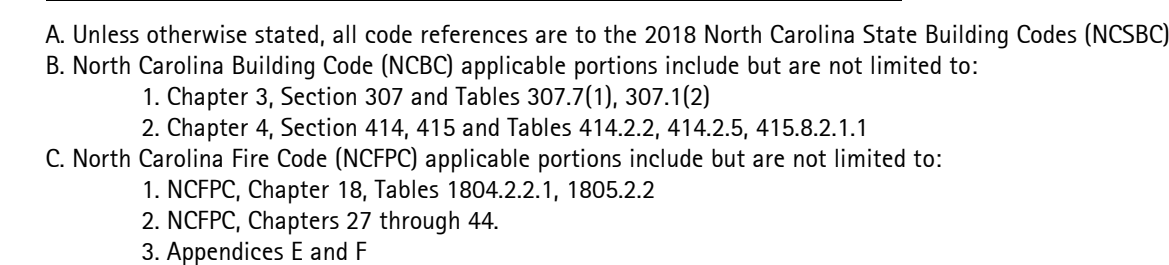
MAIN POOL DATA

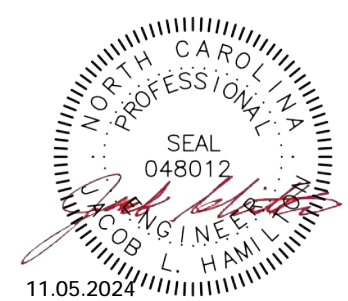
POOL DIMENSIONS:	65' 0" X 35' 0" IRREGULAR SHAPE
POOL DEPTHS:	9" SHELF w/ 3' - 5' DEPTH
POOL VOLUME:	39,459 GALLONS
SURFACE AREA:	2,018 SQFT.
PERIMETER:	225' 0" LF
COPING:	225' 0" LF
REQUIRED FLOW:	110 GPM @ 65 TDH
TOTAL DESIGN FLOW:	128 GPM @ 65 TDH
SHELL MATERIAL:	4000 PSI SHOTCRETE
INTERIOR FINISH:	PLASTER
BATHER LOAD:	135 PERSONS
BACKWASH TO:	SANITARY SEWER
WATER SOURCE:	IN-LINE AUTOFILL
PIPE SIZING:	
MAIN DRAINS:	(2) 3" SCH 40 PVC
SKIMMERS:	(6) 3" SCH 40 PVC
VACUUM LINE:	(1) 2" SCH 40 PVC
RETURN INLETS:	(12) 2" SCH 40 PVC
FILTER TYPE:	HIGH RATE SAND
SIZE PROVIDED:	2 @ 7.06 SF (EA) = 14.12
SIZE REQUIRED:	8.54 SF TOTAL
MEDIA CIRC. RATE:	15 GPM/SF
BACKWASH RATE:	15 GPM/SF
TURNOVER RATE:	6 HOURS



ANGIER NORTH CAROLINA

SP4.0





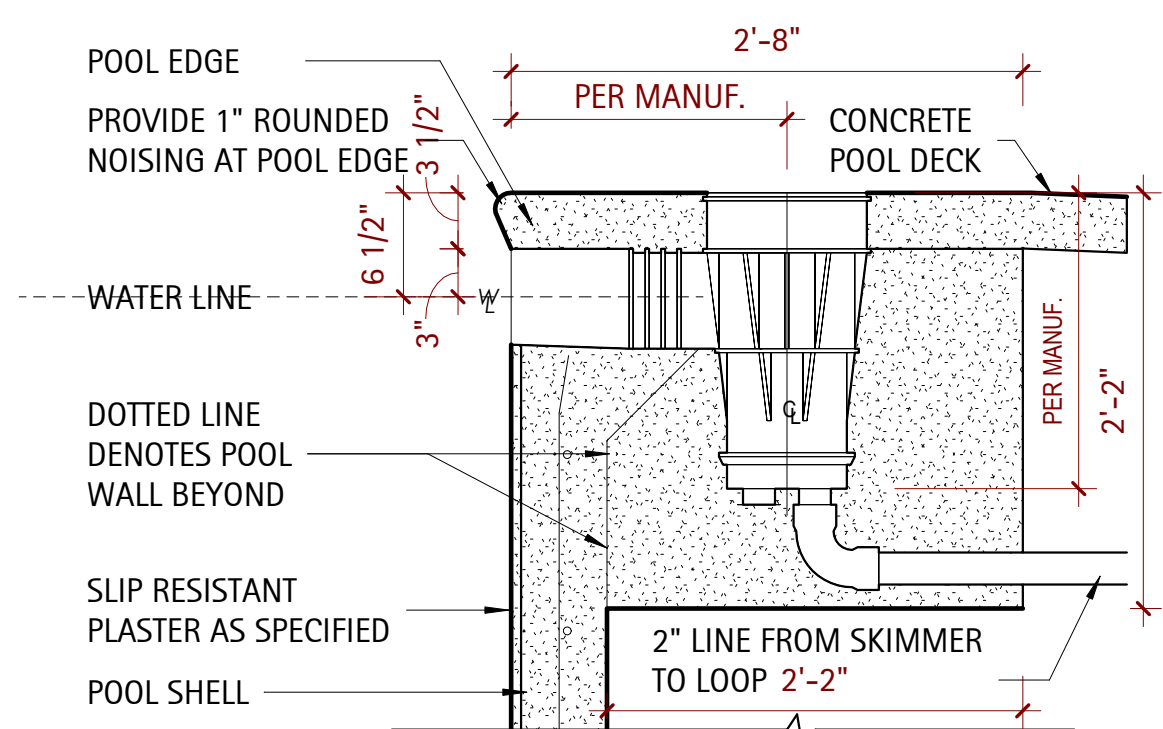
STATION POINTE AMENITY

DAN RYAN BUILDERS
ANGIER, NORTH CAROLINA

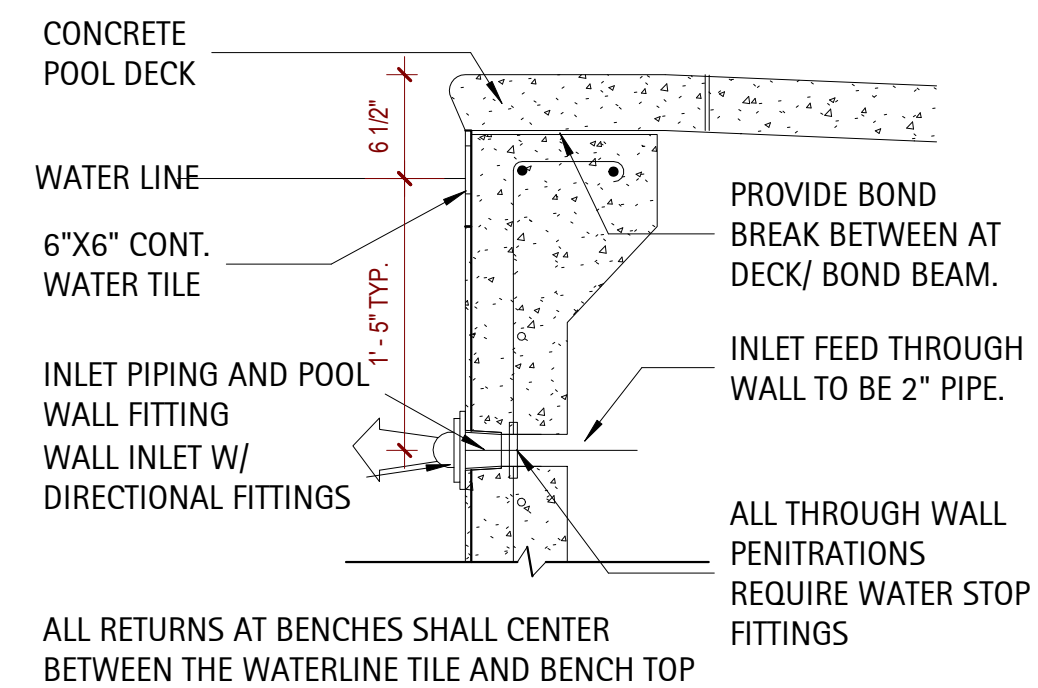
DATE	
REVISION	
NO.	
PROJECT #:	2024020
DATE ISSUED:	11/01/2024
DRAWING BY:	JVD
CHECKED BY:	DSC/ JIH
BATHHOUSE F.B.	

POOL SECTIONS
& DETAILS

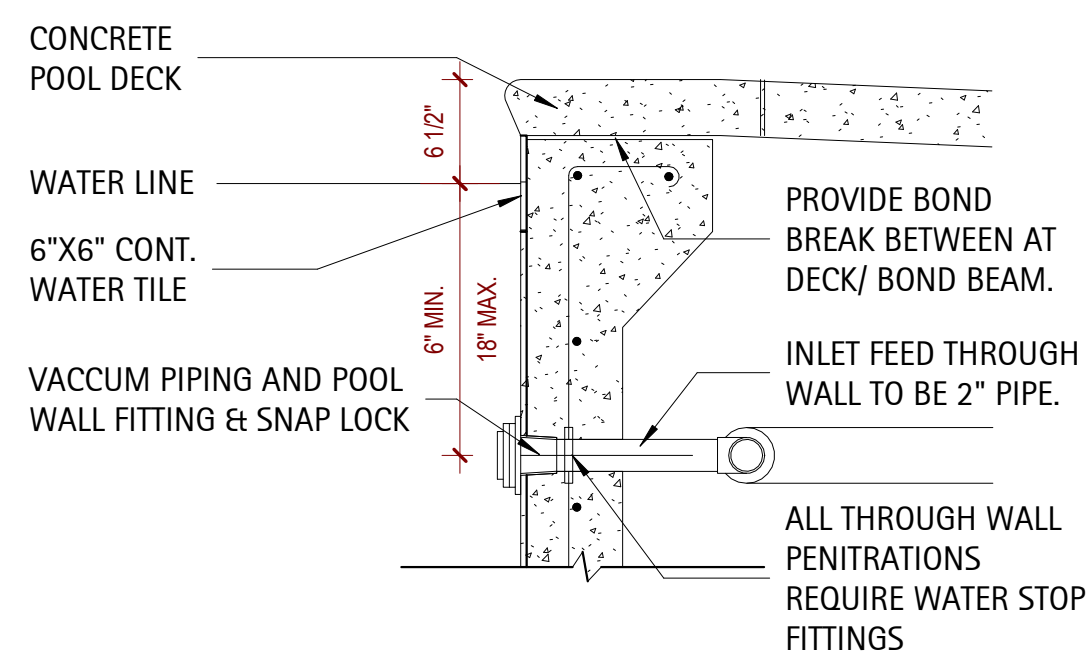
SP4.1



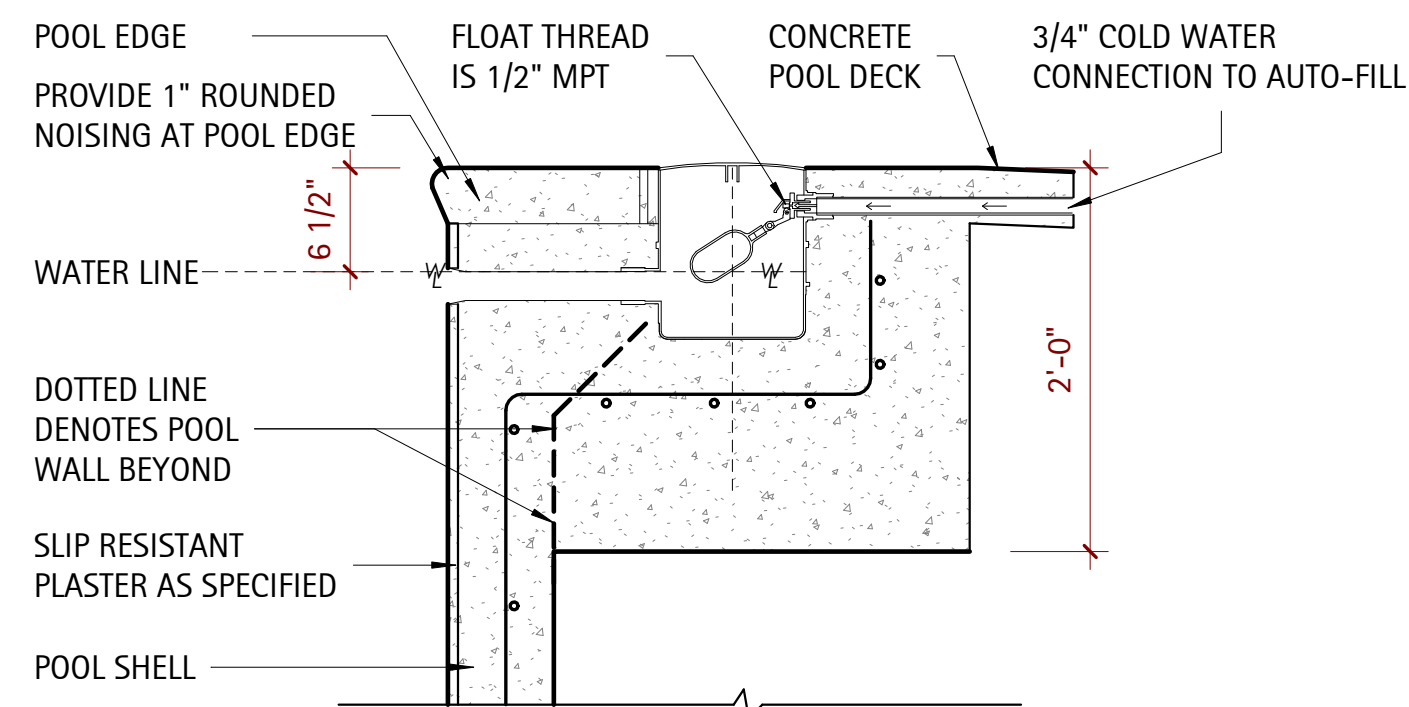
7
SP4.1
Detail - Pool Skimmer
1" = 1'-0"



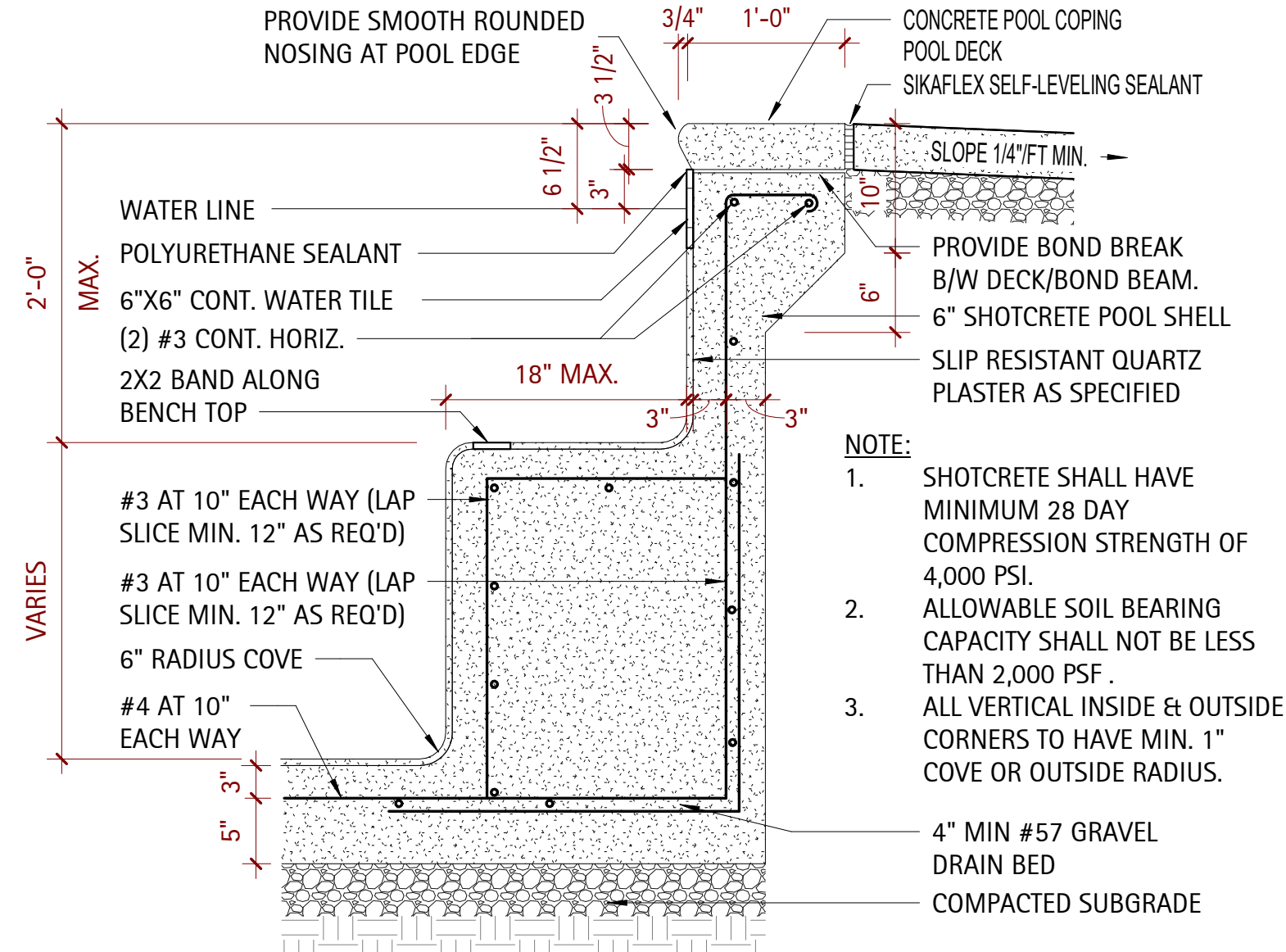
8
SP4.1
Detail - Wall Return Inlet
1" = 1'-0"



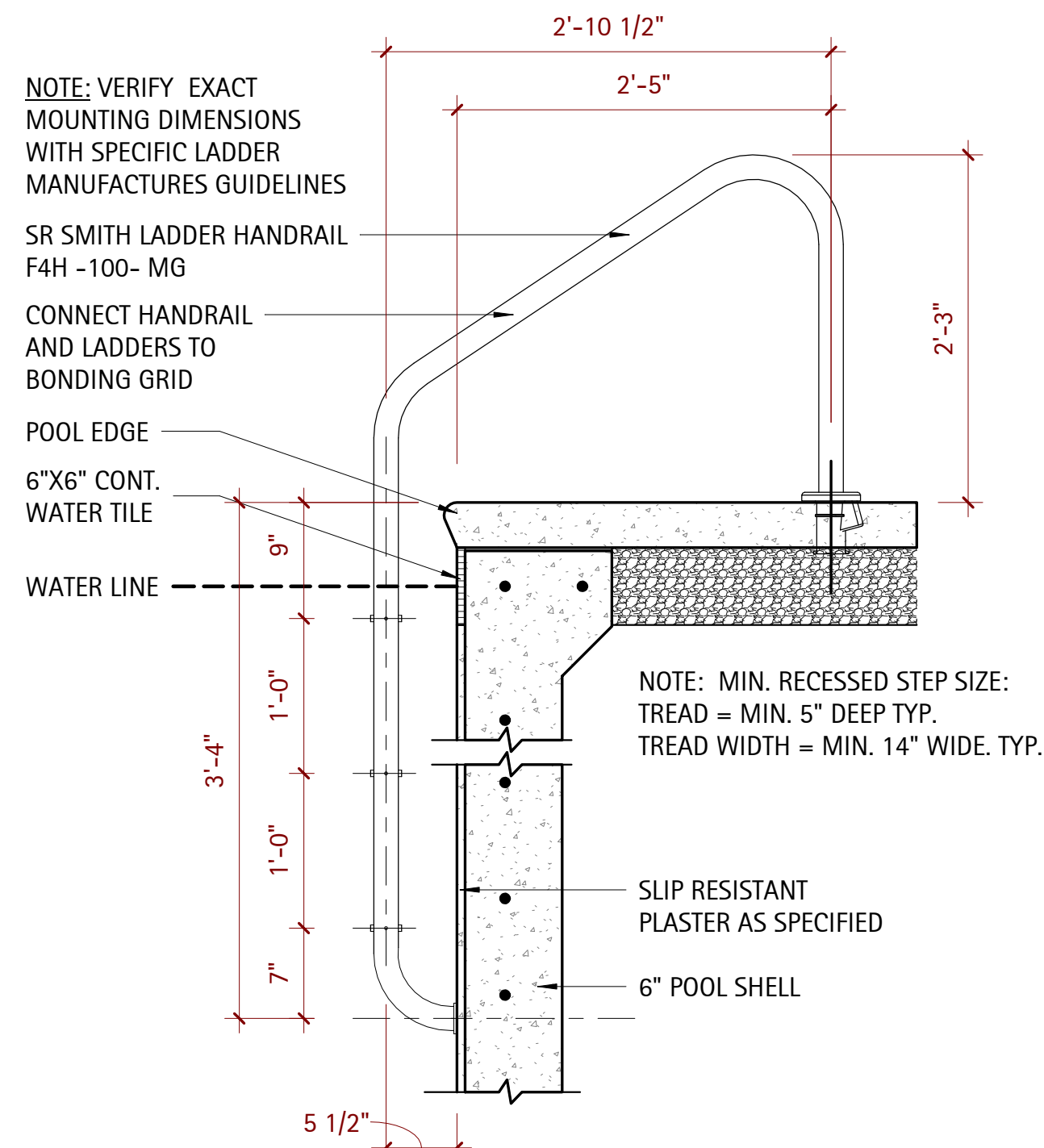
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SP4.1
Detail - Vacuum Inlet w/ Lock Cap
1" = 1'-0"



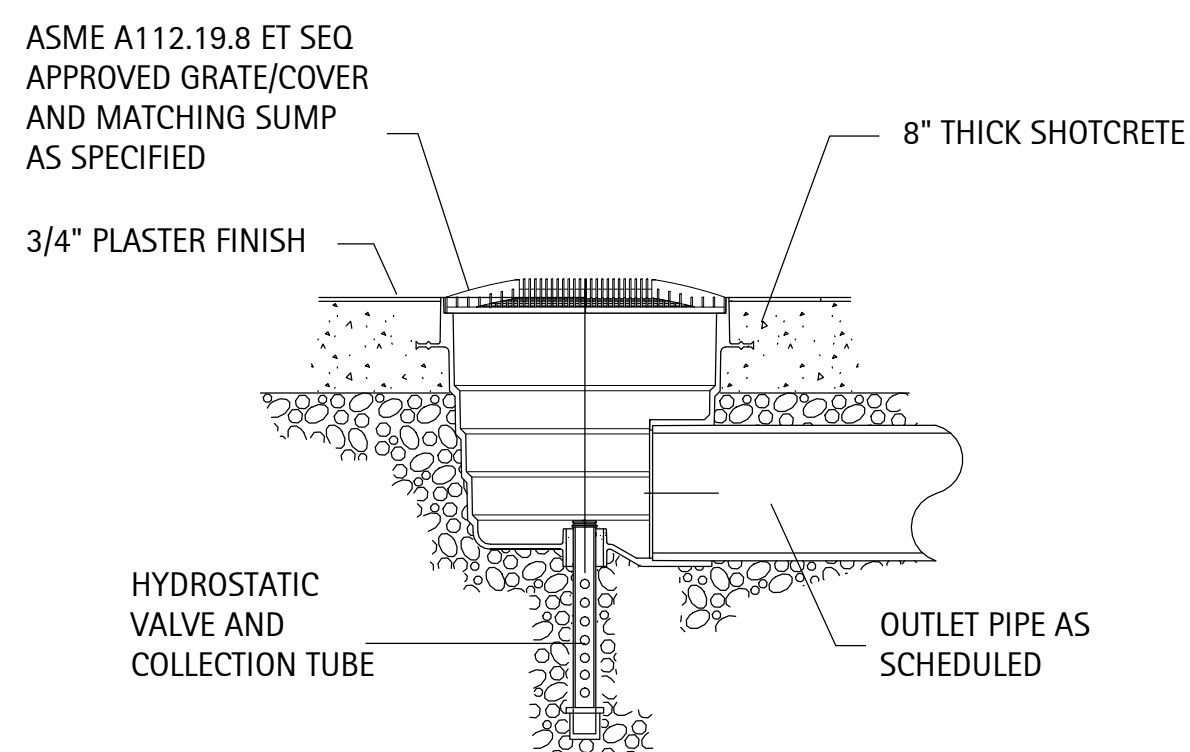
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SP4.1
Detail - Pool Autofill
1" = 1'-0"



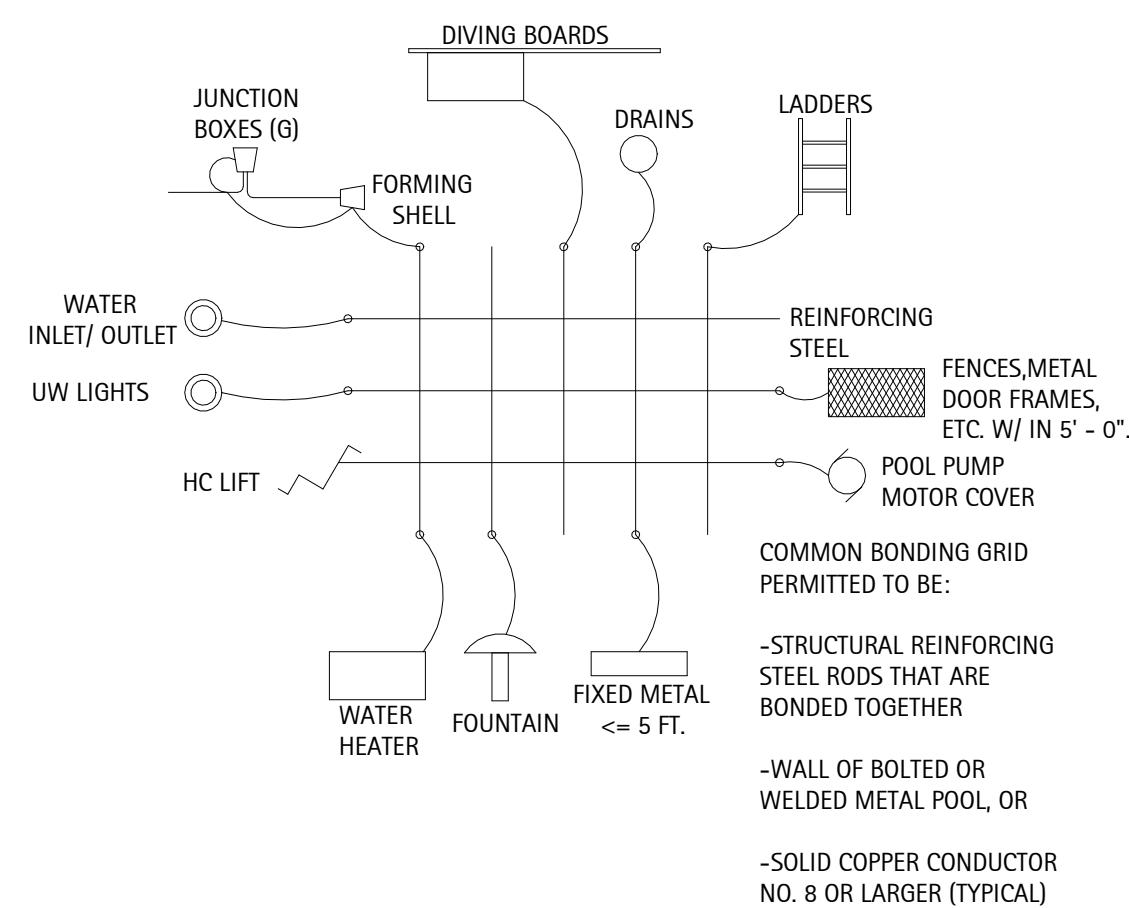
4
SP4.1
Detail - Pool Bench
1" = 1'-0"



5
SP4.1
Detail - Ladder Steps
1" = 1'-0"

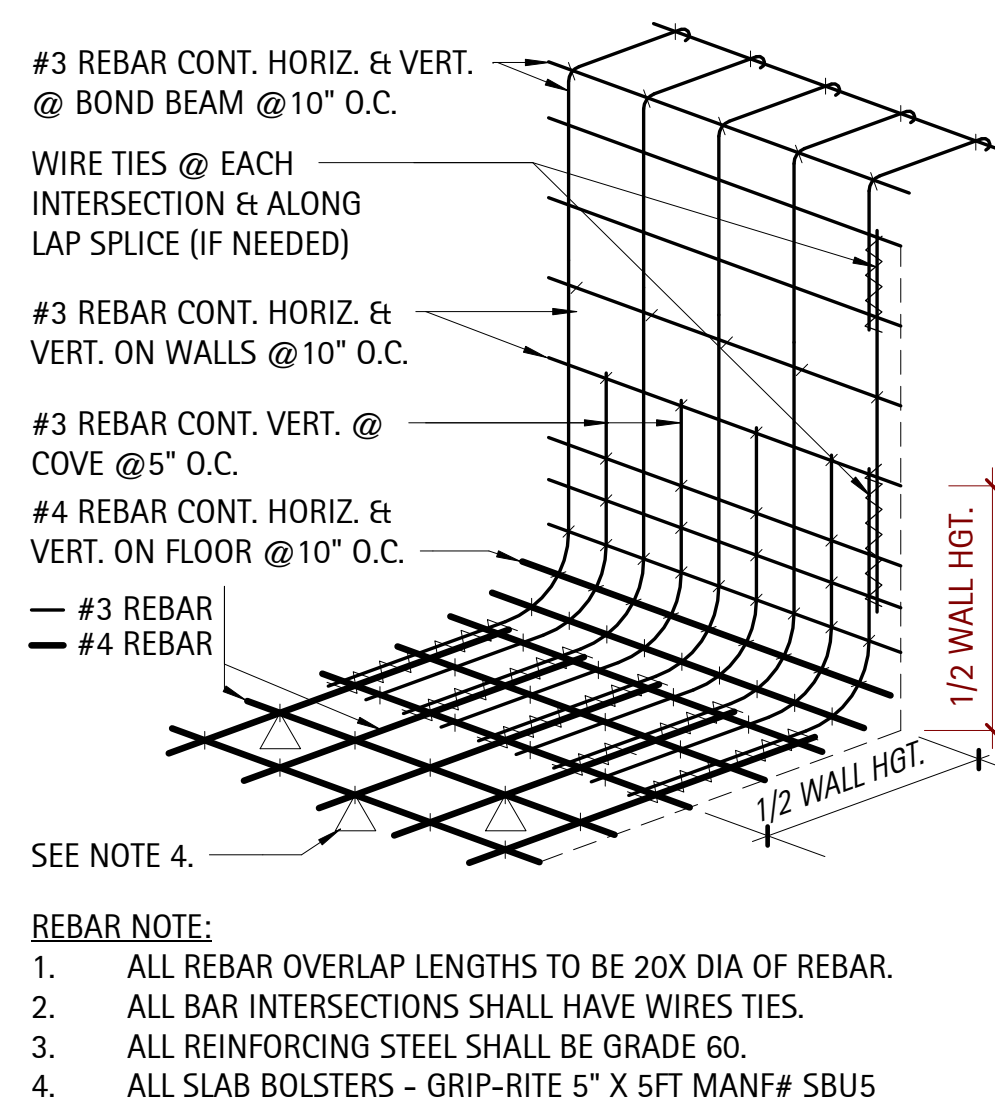


6
SP4.1
Detail - Main Drain
1" = 1'-0"

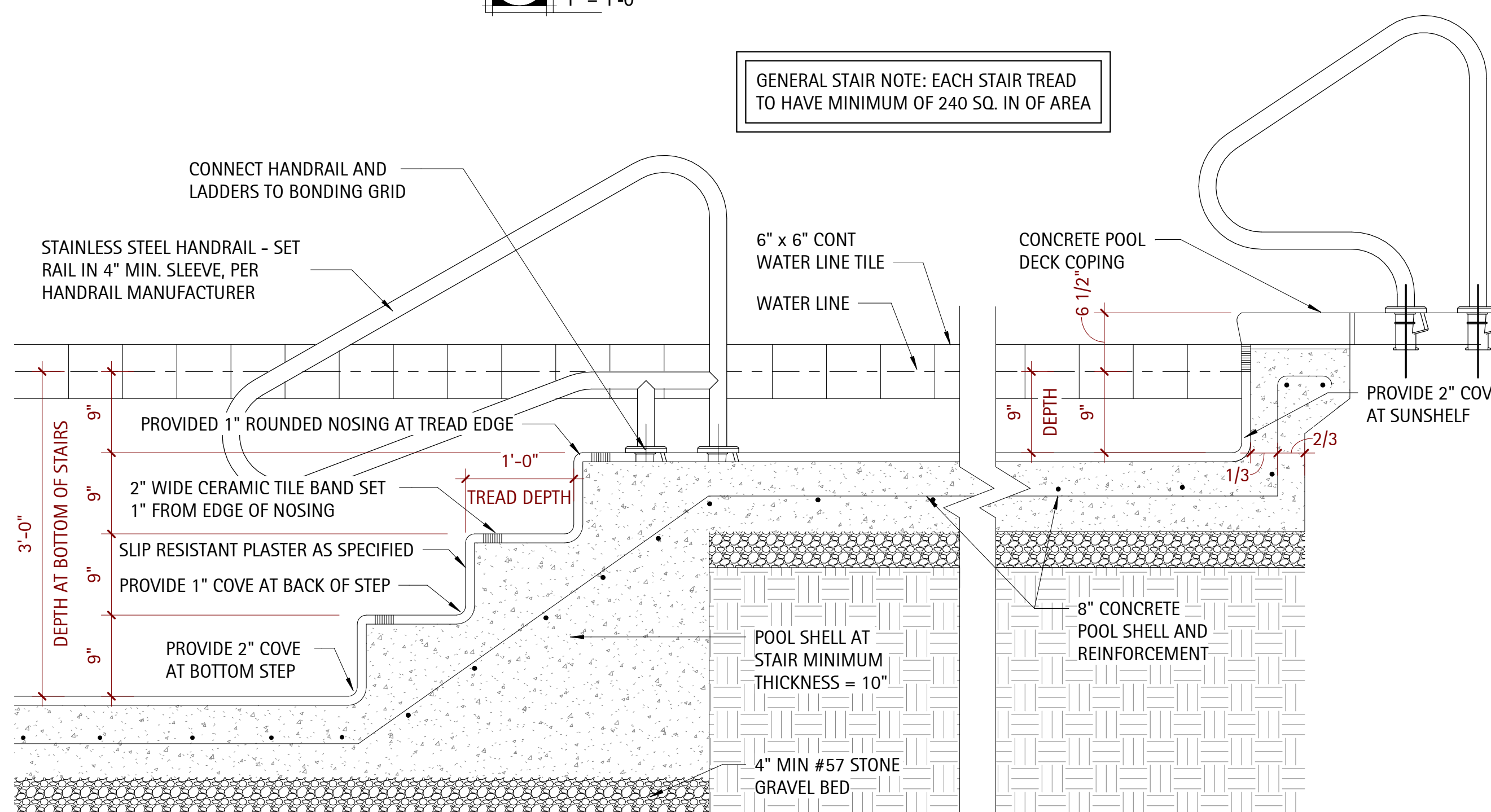
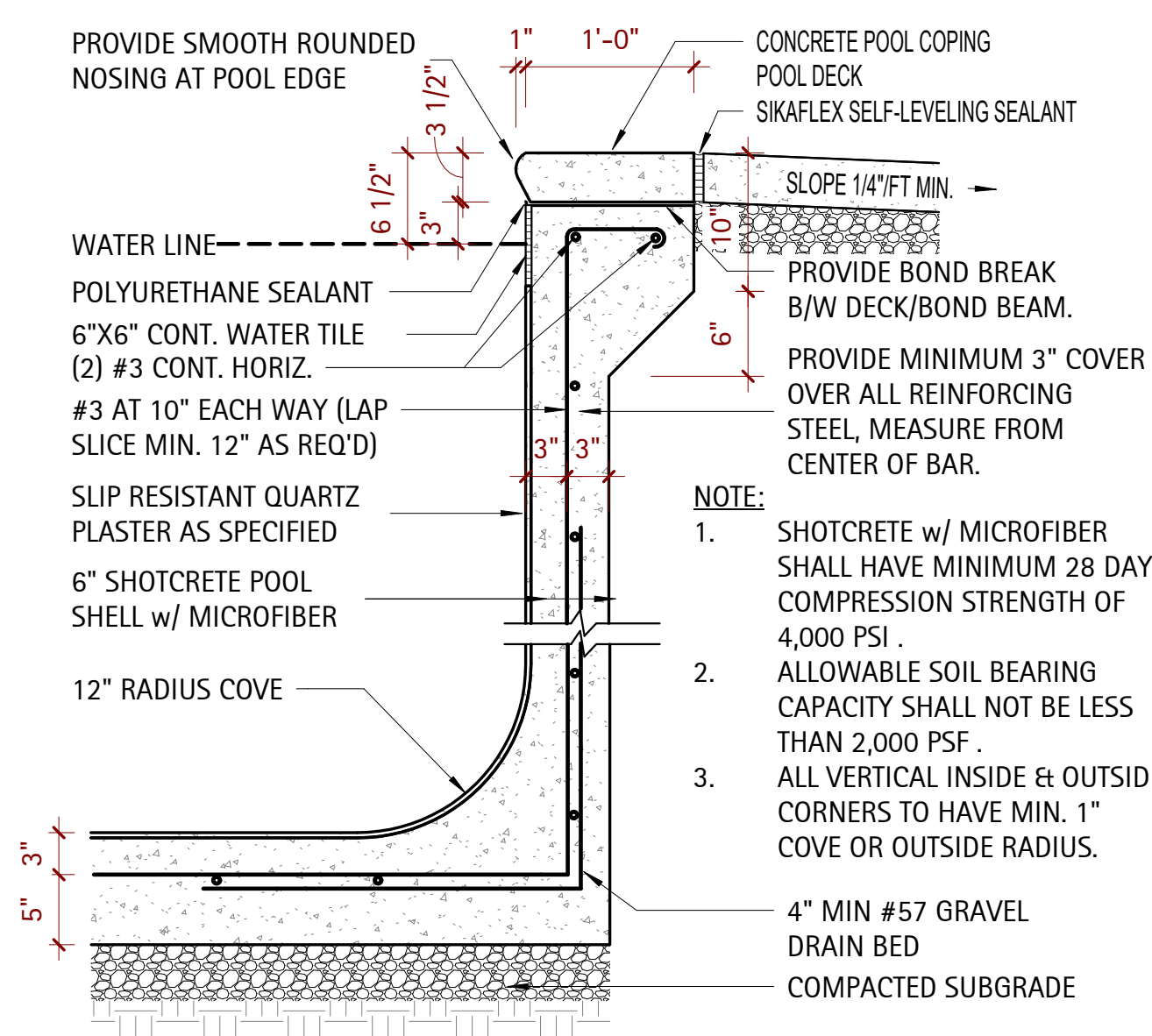


SWIMMING POOL
BONDING RISER

1
SP4.1
Detail - Pool Bonding
1" = 1'-0"

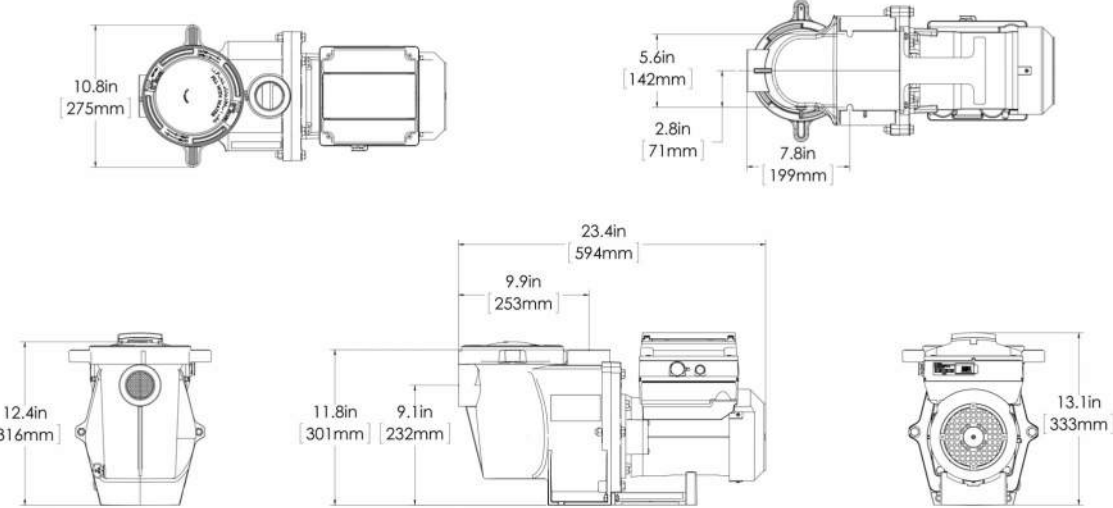
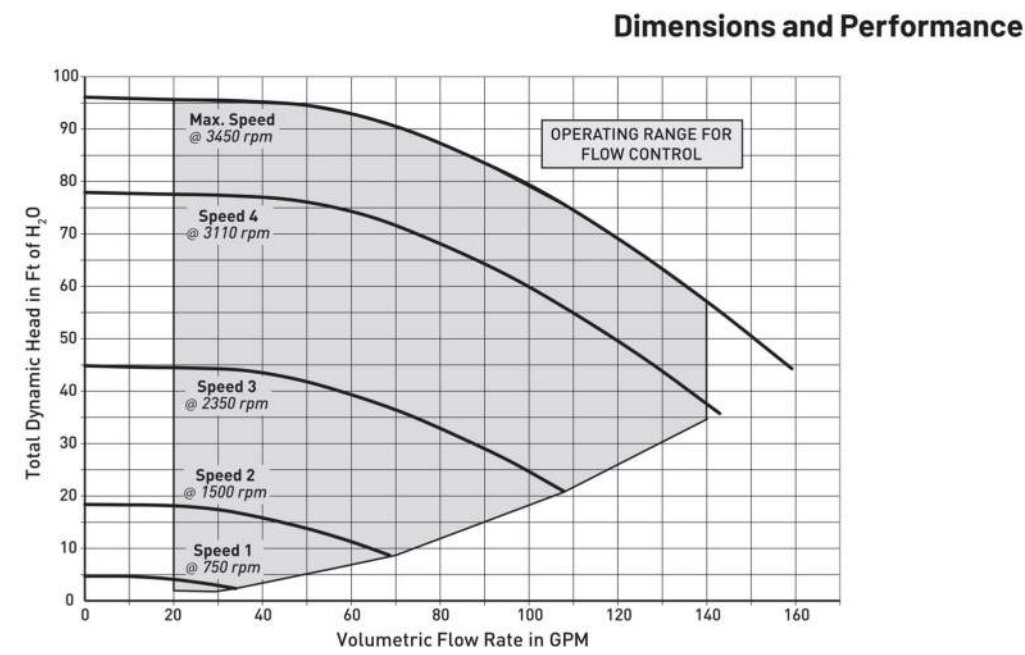


2
SP4.1
Detail - Pool Wall
1" = 1'-0"



3
SP4.1
Detail - Pool Shelf w/ Step
1" = 1'-0"

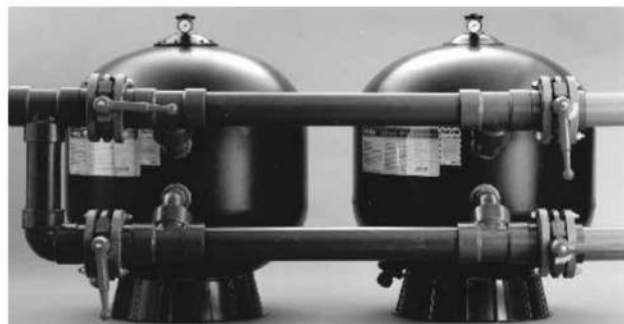
INTELLIFLO® VSF
VARIABLE SPEED AND FLOW PUMP (CONT'D)



See page 494 for replacement parts.

PUMPS - INGROUND

SCH 40 & 80 FOR TR100C, TR140C, TR100C-3 & TR140C-3
TANDEM FILTER PIPING KITS FOR 2 & 3 IN. FILTERS



These Tandem Filter Piping Kits are designed specifically for use with the Triton® TR100C, TR140C, Triton TR100C-3 and TR140C-3 Sand Filters to make the best even better.

We are providing this additional service for your convenient one-stop shopping. Pipe and filters are all you need.

Pipe is not included in kits.

Tandem Filter Piping Kits for Triton TR100C, TR140C, TR100C-3 and TR140C-3 Sand Filters

CALIFORNIA PROPOSITION 65 WARNING
▲WARNING: Cancer and Reproductive Harm.
▲AVERTISSEMENT: Peut Causer le Cancer.
▲ADVERTENCIA: Cáncer y Daño Reproductor.
www.cdph.ca.gov

Ordering Information

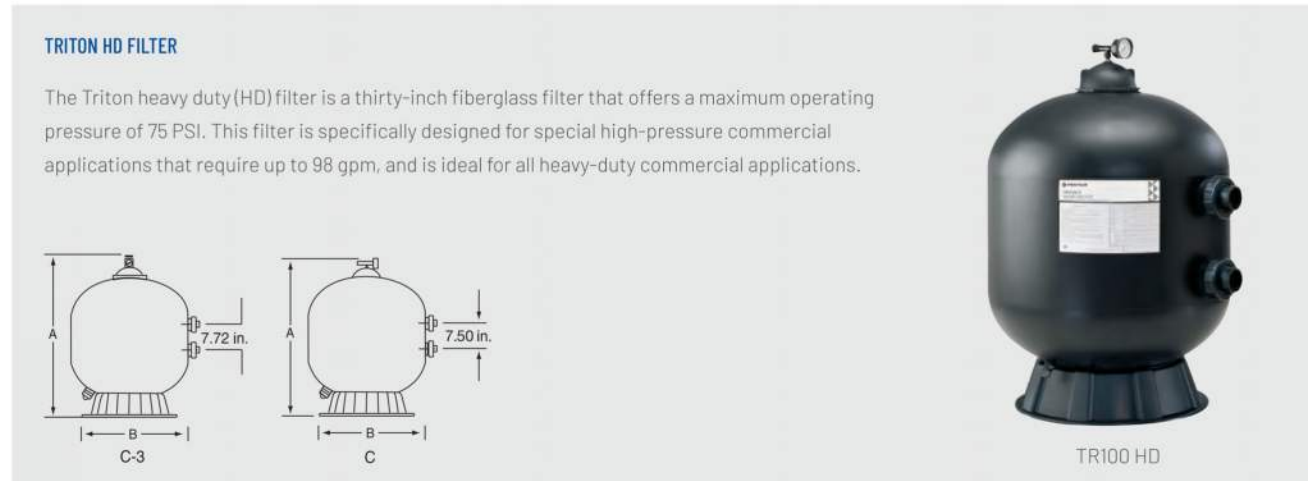
Product	Model	Product	Model
For Plumbing Two TR100C or TR140C Filters		Adder Kits for TR100C and TR140C Filters 1	
146400	3 in. Two filter kit, SCH 40 (200 GPM)	146406	4 in. Single filter kit, SCH 40
146402	4 in. Two filter kit, SCH 40 (300 GPM)	146408	6 in. Single filter kit, SCH 40
146404	6 in. Two filter kit, SCH 40 (700 GPM)	146407	4 in. Single filter kit, SCH 80
146403	4 in. Two filter kit, SCH 80 (300 GPM)	146409	6 in. Single filter kit, SCH 80
146405	6 in. Two filter kit, SCH 80 (700 GPM)	Adder Kits for TR100C-3 and TR140C-3 Filters	
For Plumbing Two TR100C-3 or TR140C-3 Filters		147406	4 in. Single filter kit, SCH 40
147400	3 in. Two filter kit, SCH 40 (200 GPM)	147408	6 in. Single filter kit, SCH 40
147402	4 in. Two filter kit, SCH 40 (300 GPM)	147407	4 in. Single filter kit, SCH 80
147404	6 in. Two filter kit, SCH 40 (700 GPM)	147409	6 in. Single filter kit, SCH 80
147401	3 in. Two filter kit, SCH 80 (200 GPM)	Note: All kits include hardware, fittings, gaskets.	
147403	4 in. Two filter kit, SCH 80 (300 GPM)		
147405	6 in. Two filter kit, SCH 80 (700 GPM)		

Note: All kits include hardware, fittings, gaskets and butterfly valves.

Filters	Filter Area Sq. Ft.	Manifold Pipe Dia.	Filter Rate Sq. Ft.		Turnover Capacity		
			15 GPM	20 GPM	6 Hours	8 Hours	10 Hours
TANDEM TRITON 140C FILTER INSTALLATION							
6 TR 140's	42.36	6 in.	635	—	228,600	304,800	381,000
		8 in.	—	847	304,920	406,560	508,200
7 TR 140's	49.42	6 in.	741	—	266,760	355,680	444,600
		8 in.	—	988	355,680	474,240	592,800
8 TR 140's	56.48	8 in.	847	—	304,920	406,560	508,200
		—	—	1130	406,800	542,400	678,000

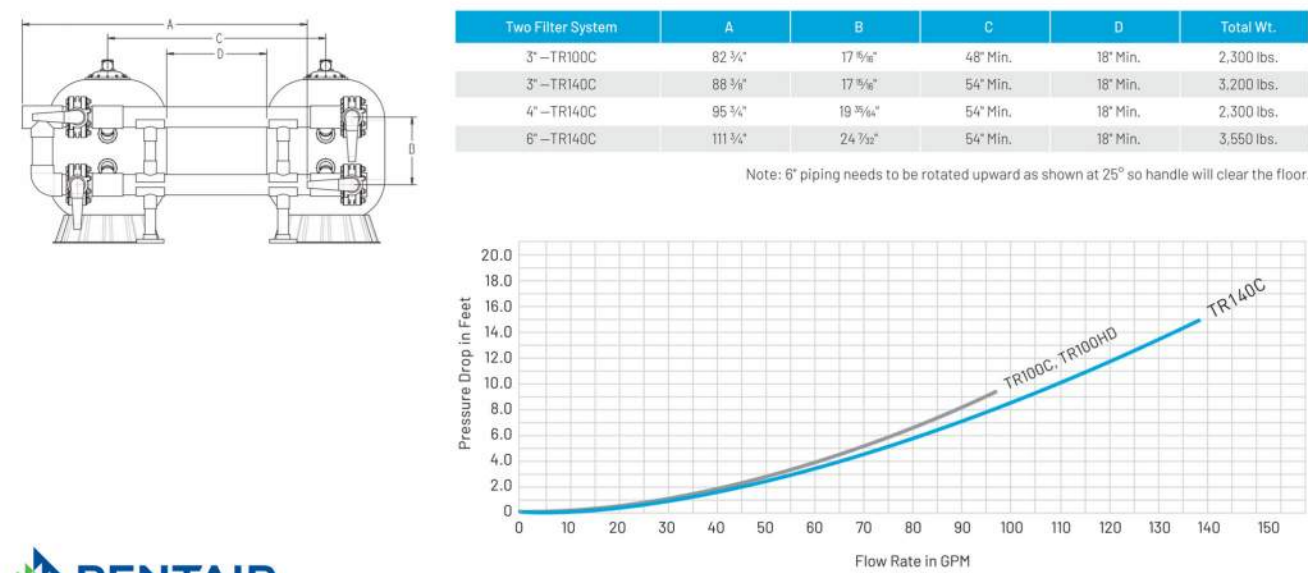
93

TRITON® C SERIES
COMMERCIAL SAND FILTERS



Triton Commercial Series Sand Filter Specifications		Flow Rate		Turnover Capacity Gallons		Dimension		Media Required	
Model Number	Filter Area Sq. Ft.	15 GPM/sq. ft.*	20 GPM/sq. ft.*	6 Hours	8 Hours	A	B	Sand	Sand/Drain
TR100C	4.36	74	38,360	35,520	39 1/2"	36 1/2"	80 1/2"	600 lbs./275 lbs.	600 lbs./275 lbs.
TR140C	7.06	108	38,360	50,880	45 1/2"	36 1/2"	85 1/2"	650 lbs./275 lbs.	650 lbs./275 lbs.
TR100C-3	4.36	74	26,640	35,520	39 1/2"	30 1/2"	80 1/2"	450 lbs./150 lbs.	450 lbs./150 lbs.
TR140C-3	7.06	108	38,360	50,880	45 1/2"	36 1/2"	85 1/2"	650 lbs./275 lbs.	650 lbs./275 lbs.

*15 GPM/sq. ft. typical commercial flow rate. Triton C Filters are approved for 5-20 GPM/sq. ft.



PENTAIR

1620 HAWKINS AVE | SANFORD, NC 27330 | UNITED STATES | 800.831.7133 | pentair.com

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HIGH CAPACITY CHLORINE/BROMINE FEEDERS

The performance leader in automatic sanitation for large residential and commercial pools.

The INLET control valve side of the feeder connects to the plumbing on the discharge side of the pump, before the filter. The OUTLET side of the feeder connects to the pool return line after the filter and/or heater, pool cleaner, diverter valves or any other installed equipment. Installation of a corrosion-resistant check valve, such as RIT72288 by Pentair, between the feeder inlet and outlet and the equipment is strongly recommended to check backflow of chemicals. This helps ensure equipment longevity.

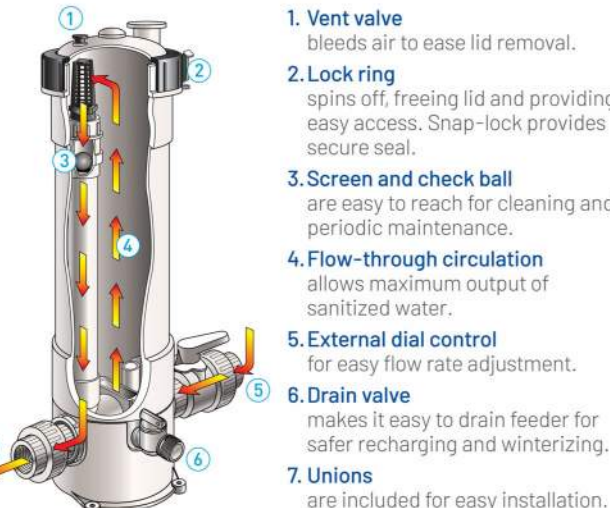
KEY FEATURES

Heavy-duty control valve
For accurate feed rate adjustment.

Completely enclosed system
Prevents fumes from escaping—no special venting required.

Easy access design
For easy recharging, servicing and simple maintenance.

Threaded fittings included
Standard threaded inlet and outlet fittings included for easy installation.



CALCULATED HYPOCHLORITE IS NOT TO BE USED IN ANY FORM. Use of chemicals other than those recommended by manufacturer may be hazardous.

MODELS & SPECIFICATIONS

Model	HC-3315	HC-3330	HC-3340
Part Number	RIT7215	RIT7230	RIT7240
Height	21.5"	30.05"	48.75"
Width	8"	8"	8"
Depth	15"	15"	15"
Maintenance Clearance	22.75"	40.75"	57"
Capacity (lbs.)	15	30	40
Flow Rate (GPM)	34	34	34
Maximum Output Rate, Chlorine* (lbs./hr.)—Pool at Listed Flow Rate	3.65	5.2	6.54
Maximum Output Rate, Chlorine* (lbs./hr.)—Spa at Listed Flow Rate	3.67	6.59	6.89
Maximum Output Rate, Bromine* (lbs./hr.)—Pool at Listed Flow Rate	1.58	2.63	2.57
Flow Rate (GPM)	17.0	17.0	17.0
Output Rate, Chlorine* (lbs./hr.)—Pool at Listed Flow Rate	1.28	2.81	3.19
Output Rate, Chlorine* (lbs./hr.)—Spa at Listed Flow Rate	1.19	2.54	3.88
Output Rate, Bromine* (lbs./hr.)—Pool at Listed Flow Rate	0.68	1.26	1.50
Maximum Pool Size @ 34 GPM (Chlorine-Dial)	224,000	369,000	658,500
Maximum Pool Size @ 34 GPM (Bromine-Dial)	99,200	164,000	292,600
Maximum working pressure—60 psi *Results based on use of 7" Chlorinator.	Maximum operating flow—34 GPM		

PENTAIR

1620 Hawkins Ave | Sanford, NC 27330 | United States | 800.831.7133 | pentair.com

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TAG 1 - CIRCULATION PUMP - INTELLIFLO VSF - 3 HP HIGH EFFICIENCY PUMP

TAG 2 - BACKWASH - 147400 - TANDEM FILTER PIPING KIT FOR 2 & 3 IN FILTERS

TAG 3 - SAND FILTER - TR-140 C3 - 36" DIA HIGH RATE SAND FILTER W/ 7.06 SF OF MEDIA

TAG 4 - CHLORINATOR - HC-3315 - COMMERCIAL HIGH COMPACT CHLORINE FEEDER

WHEN ACCURACY IS CRITICAL, DON'T JUST
TAKE OUR WORD FOR IT!

FlowVis® was the first - and is now the most - NSF 50 certified flow meter in the world. Because when accuracy matters, you should put your trust in the experts.

NSF 50 CERTIFIED
L1

FLOWVIS® MODELS

Feature	FV-15	FV-15-U	FV-2	FV-2-U	FV-25	FV-3	FV-3-40	FV-4	FV-6	FV-8
NSF 50 Certified	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pipe Size	1.5"	1.5"	2"	2"	2.5"	3"	3"	4"	6"	8"
Operating Range (GPM)	10-80	10-90	10-110	10-110	10-110	70-240	70-240	150-460	300-1000	600-1800
Average Accuracy	98.7%	98.7%	99.4%	99.0%	99.2%	98.9%	99.2%	99.6%	98.1%	N/A*
NSF 50 Level	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1

*FlowVis® model FV-8 is available only with FlowVis® Digital upgrade included. For accuracy of this model, refer to the FV-8 information in the FlowVis® Digital table below.

FLOWVIS® DIGITAL MODELS

Feature	FV-15	FV-15-U	FV-2	FV-2-U	FV-25	FV-3	FV-3-40	FV-4	FV-6	FV-8
NSF 50 Certified	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pipe Size	1.5"	1.5"	2"	2"	2.5"	3"	3"	4"	6"	8"
Operating Range (GPM)	10-80	10-90	10-110	10-110	10-110	70-240	70-240	150-460	300-1000	600-1800
Average Accuracy	98.6%	99.0%	98.8%	98.5%	98.3%	98.4%	98.0%	98.3%	98.9%	98.9%
NSF 50 Level	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1

NOTE: FlowVis is the only NSF 50 certified Level 1 flow meter in the world today.

Guide for NSF 50 Accuracy Levels

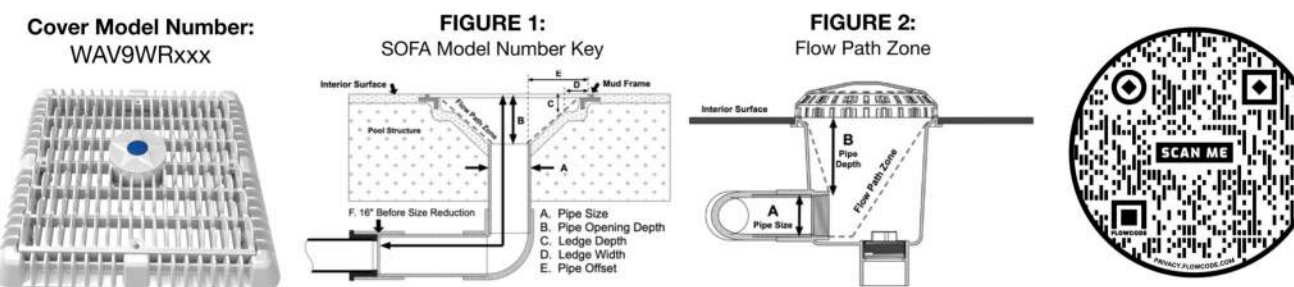
Level 1 (L1): Average of absolute values of all single point deviations must be ≤2%. Single point deviations shall not exceed ±4%.
Level 2 (L2): Average of absolute values of all single point deviations must be ≤5%. Single point deviations shall not exceed ±7.5%.
Level 3 (L3): Average of absolute values of all single point deviations must be ≤10%. Single point deviations shall not exceed ±12.5%.
Level 4 (L4): Average of absolute values of all single point deviations must be ≤12.5%. Single point deviations shall not exceed ±15%.
Level 5 (L5): Average of absolute values of all single point deviations must be ≤15%. Single point deviations shall not exceed ±20%.

4 FlowVis

VGBA-2017 PRODUCT SPECIFICATIONS
Suction Outlet Fitting Assembly (SOFA)
VGBA-2017 Flow Ratings, Sump Dimensions,
and Sump Flow Path Zone

NSF
Certified to
NSF/ANSI/CAN 50
ANSI/APSP/ICC 16-2017

DIRECTIONS: Read and follow the instructions provided with the product. Never exceed a SOFA Model flow rating when the pool is in use. SOFA Covers shall only be installed over sumps that meet or exceed the minimum flow path zone defined by: minimum pipe size and sump exit orientation, and the minimum pipe depth. Please see page 2 of 2 for help determining the proper flow rating for any pipe size changes within 16 inches of the pool interior finish. AquaStar SOFA covers are authorized for use over any compatible manufactured or field-built sump (§ 3.5.1). Scan the QR code or visit: www.aquastarpoolproducts.com/flowcode for the most current version of these specifications, instructions, and product information.



SOFA Model No.	(A) Pipe Size (Nominal)	(B) Pipe Depth (Minimum)	Orientation (Wall / Floor)	Flow Rating (GPM)	Head Loss Curve
WAV9WR-9F-A-2b, B3, C1.6, D0.5, E2.8, F16	2" (b)	3"	Floor (f)	140	A
WAV9WR-9F-A-2.5b, B3, C1.6, D0.5, E2.8, F16	2.5" (b)	3"	Floor (f)	226	B
WAV9WR-9F-A-3b, B3, C1.6, D0.5, E2.8, F16	3" (b)	3"	Floor (f)	200	C
WAV9WR-9F-A-4b, B5.6, C1.6, D0.5, E1.7, F16	4" (a)	5.6"	Floor (f)	224	D
WAV9WR-9F-A-4b, B9.8, C1.6, D0.5, E1.8, F16	4" (b)	9.8"	Floor (f)	280	E
WAV9WR-9w-A-1.5b, B3, C1.6, D0.5, E1.6, F16	1.5" (b)	3"	Wall (w)	126	F
WAV9WR-9w-A-2b, B3, C1.6, D0.5, E2.8, F16	2" (b)	3"	Wall (w)	140	G
WAV9WR-9w-A-2.5b, B3, C1.6, D0.5, E2.8, F16	2.5" (b)	3"	Wall (w)	226	H
WAV9WR-9w-A-3b, B3, C1.6, D0.5, E2.8, F16	3" (b)	3"	Wall (w)	200	I
WAV9WR-9w-A-4b, B9.8, C1.6, D0.5, E1.8, F16	4" (b)	9.8"	Wall (w)	280	J

Note 1: "SOFA Model No" nomenclature, bottom pipe = (b), side pipe = (s). See Fig 1 for capital letters A through E.

Note 2: Head loss inH₂O is measured 16 to 24 inches from the finish surface of the pool. Reference Fig 1 dimension F.

Revision Date: 04/02/2024 Sump specifications defined in conformance with ANSI/APSP/ICC-16 2017 (§ 3.5.1.1)
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Page 1 of 2

Fiberglass Field Built Sumps

- Premium fiberglass & resin for maximum structural strength
 - Durable smooth gelcoat interior
 - Exterior perimeter FRP watertop flange
 - Non-Metallic- No grounding
 - Rough sand exterior finish
- 2" Bottom fpt.x fpt for hydro relief valve
 - Threaded PVC SCH 40 pressure test plug for outlet (up to 8")
 - All PVC connections are ASTM 2466 compliant
 - Designed to ANSI/APSP/ICC-16 2017 for use only with approved SOFA (Suction Outlet Fitting Assembly) Covers.

Field Built Sump Product Dimensions (Inches)							SCH40 Outlet fpt x sch
Size (Inches)	ASA Part #	A	B	C	D	E	
9 x 9 x 12	FBS-50-809-3	11"	9"	12"	4.5"	6.5"	3"
12 x 12 x 12	FBS-50-812-4	14"	12"	12"	4.5"	7"	4"
12 x 12 x 18	FBS-50-812-18-4	14"	12"	18"	4.5"	8"	4"
12 x 12 x 18	FBS-50-812-18-6	14"	12"	18"	4.5"	10"	6"
18 x 18 x 20	FBS-50-818-6	20"	18"	20"	4.5"	10"	6"
18 x 18 x 24	FBS-50-818-24-6	20"	18"	24"	4.5"	13"	6"
18 x 18 x 24	FBS-50-818-24-8	20"	18"	24"	4.5"	13.5"	8"
24 x 24 x 30	FBS-50-824-30-10	26"	24"	30"	4.5"	17"	10" sch x sch

- SOFA COVER NOTES:**
(SOFA = Suction Outlet Fitting Assembly)
- Please see the Manufacturer's (AquaStar, Hayward, Waterway) SOFA Cover (Grate) Installation Instructions for a Field Fabricated Sump to confirm minimum Sump dimensions and tested outlet sizes before installing.
 - All SOFA Cover Manufacturer's require different minimum Sump depth dimensions, outlet placement (bottom or side), and suction outlet size (diameter in inches). Please confirm the SOFA Cover you are using is designed for this Fiberglass Field Fabricated Sump.
 - Please refer to the SOFA Cover (Grate) specification data sheet for VGBA tested flow rates. Every SOFA Cover has different an open area and flow path. Do not install a SOFA Cover over a Field Fabricated Sump that does not meet the minimum specifications determined by the SOFA Manufacturer.
 - A.S.A. MFG. Inc. Fiberglass Sumps have been fabricated to the original ASME 112.19.8 Standard - Suction Fittings for Pools & Spas (1.5x (Figure 2) since 1992.
 - All Field Built Sumps shall be installed in accordance with the manufacturer's installation instructions.
 - All SOFA covers shall be installed in accordance with the manufacturer's installation instructions.
 - The A.S.A. MFG Inc. Fiberglass Field Built Sump is intended only to be installed in a reinforced concrete pool structure.
 - Any field modifications made to the SOFA and not authorized by the manufacturer's installation instructions shall void the SOFA certification. No modification shall be made to the SOFA structure or flow path unless a new configuration has been certified as a new SOFA
 - Fiberglass Field Built Sump Life = Life of the Aquatic Center.

A.S.A. MFG Inc. 14879 SW 111th St. Dunnellon, FL 34432 352-465-0236 Fax 352-465-0239 email: info@asamfg.com

TAG 6 - MAIN DRAIN SUMPS - FBS-50-809-3 - A.S.A FIBERGLASS SUMP

TAG 5 - FLOW METER - FV-3-40 - 3 INCH COMMERCIAL INLINE FLOW METER

TAG 6 - MAIN DRAIN COVER - WAV9WR101 - 9" x 9" VGB SUCTION OUTLET COVER

TAG 7 - HYDROSTATIC RELIEF VALVE - HVC101 - SELF-CONTAINED HYDROSTATIC RELIEF VALVE

STATION POINTE AMENITY

DAN RYAN BUILDERS

ANGIER, NORTH CAROLINA

DATE

REVISION

NO.

PROJECT #: 2024020

DATE ISSUED: 11/01/2024

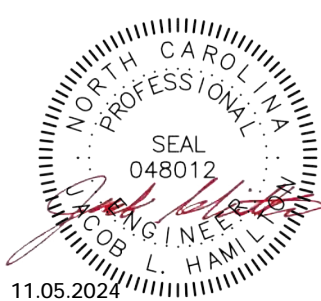
DRAWING BY: JVD

CHECKED BY: DSC/JLH

BATHHOUSE.F.B.

SPECIFICATIONS

SP5.0



ANGIER, NORTH CAROLINA

BATHHOUSE F.B.

SP5.2

TAG 17 - HANDRAIL - DMS-101B-MG - MARINE GRADE DECK MOUNTED HANDRAILS - SHORT

TAG 16 - JUNCTION BOX - PJB4175 - 4 LIGHT CONNECTION POOL & SPA LIGHT JUNCTION BOX

TAG HC - MULTI-LIFT - ADA COMPLIANT MULTI-LIFT W/ FOLDING SEAT

POOL PLASTER COLOR & LVR VALUE

TAG 19 - LADDER - 10054 - MG - MARINE GRADE DECK COMMERCIAL LADDER

TAG 18 - HANDRAIL - DMS-102B-MG - MARINE GRADE DECK MOUNTED HANDRAILS - STANDARD