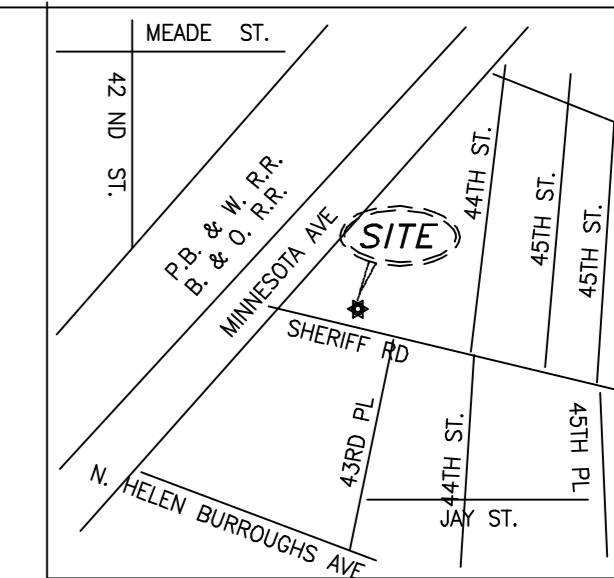


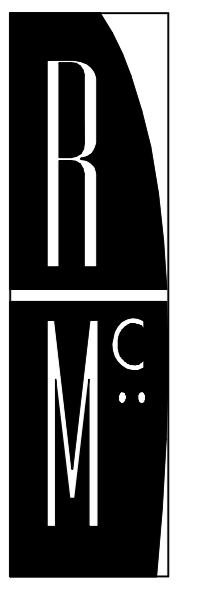
UTILITY DISCLAIMER

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SCALE: 1" = 10'



VICINITY MAP
SCALE: 1"=2000'



R. MCGHEE & ASSOCIATES

740 6TH ST, NW SUITE 302
WASHINGTON, DC 20001
T: 202.626.0690
F: 202.626.0004

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WASHINGTON, DC
(301) 226-1941

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LANHAM, MD 20706
(301) 429-1750

Surveying:
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4200 FORBES BLVD #203
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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number:
2010-4318

Revisions:

No.	Date

CONSTRUCTION DOCUMENTS
75% CD

Issue Date:
07.13.2011

Sheet Title:
SITE & GRADING PLAN

Sheet Number: **C-3**

UTILITY COMPANIES

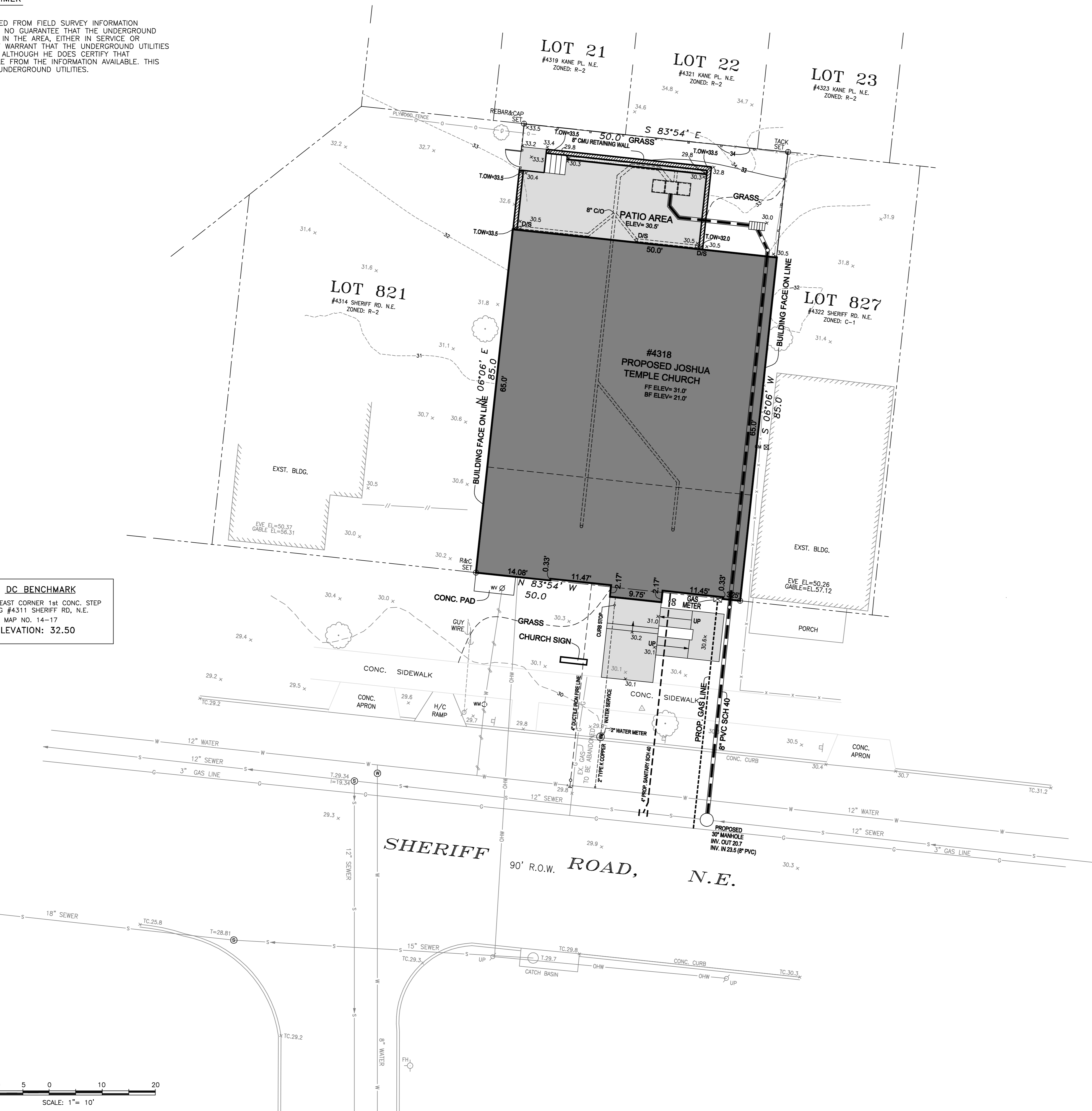
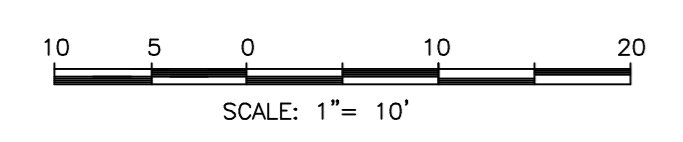
- POTOMAC ELECTRIC POWER CO.
701 9th STREET, N.W.
WASHINGTON D.C. 20068
202-331-6237
- GAS SERVICE
WASHINGTON GAS COMPANY
6801 INDUSTRIAL RD
SPRINGFIELD VA. 22151
703-750-1000
- TELEPHONE SERVICE
VERIZON
3301 CALVERTON BOULEVARD
BELTSVILLE, MD. 20705
301-595-6052
- SEWER & WATER SERVICE
D.C. WATER & SEWER AUTHORITY
5000 OVERLOOK AVE, S.W.
WASHINGTON, D.C. 20032
202-645-7651

DC BENCHMARK
NORTH EAST CORNER 1st CONC. STEP
OF BLDG #4311 SHERIFF RD, N.E.
MAP NO. 14-17
ELEVATION: 32.50

UTILITIES LEGEND

- ⊙ STORM DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- ⊙ PEPCO MANHOLE
- ⊙ WATER MANHOLE
- F/HYD FIRE HYDRANT
- WM WATER METER
- WV WATER VALVE
- GV GAS VALVE
- GM GAS METER
- EM ELECTRIC METER
- CO CLEAN OUT
- E— ELECTRIC POWER LINE
- OH— OVERHEAD WIRE
- T— TELEPHONE LINE
- G— GAS LINE
- S— SEWER LINE
- SD— STORM DRAIN
- W— WATER LINE
- PP PEPCO POWER POLE
- UP UTILITY POLE
- TP TELEPHONE POLE
- PL PEPCO LIGHT POLE
- PS PARKING SIGN
- TS TRAFFIC SIGN
- ST STOP SIGN

- LEGEND**
- WOOD FENCE
 - CHAINLINK FENCE
 - IRON RAIL FENCE
 - GATE



GENERAL NOTES:

- TOTAL AREA OF PROPERTY BY RECORD 4,250 S.F.
- APPROXIMATE AREA OF PROPOSED BUILDING FOOTPRINT 3,268.0 S.F.
- APPROXIMATE AREA OF PROPOSED IMPERVIOUSNESS 4,055.0 S.F.
- FLOOD ZONE DESIGNATION "C" MINIMAL HAZARD
FEMA INSURANCE MAP PANEL No. 110001 0005B
- PROPERTY IS ZONED C-1, A COMMERCIAL ZONE AS PER CURRENT AVAILABLE ZONING MAP OF THE DISTRICT OF COLUMBIA.
- TOTAL NUMBER OF PARKING SPACES ON SITE = 0
- PROPERTY MEASURED DIMENSIONS ARE SUBJECT TO THE MODIFICATIONS AND/ OR VERIFICATION BY THE OFFICE OF THE SURVEYOR OF THE DISTRICT OF COLUMBIA.
- PROPOSED BUILDING HEIGHT 21.20 FEET

ZONING REQUIREMENT:

- | | |
|-------------------------------------|--------------------------------------|
| HEIGHT OF BUILDING ALLOWED | 40 FEET/ 3 STORIES |
| FLOOR AREA RATIO MAXIMUM ALLOWED | 1.0 |
| PERCENTAGE OF LOT OCCUPANCY ALLOWED | 60% |
| REAR YARD MINIMUM DEPTH | 20 FEET |
| SIDE YARD MINIMUM | NOT REQUIRED BUT IF PROVIDED 8' FEET |
| FRONT YARD MINIMUM | NONE REQUIRED |
- CHECK WITH CURRENT ZONING REQUIREMENT OF DISTRICT OF COLUMBIA.

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STORMWATER NARRATIVE

THE PROJECT SITE IS LOCATED AT 4318 SHERIFF ROAD NE IN THE DISTRICT OF COLUMBIA MORE PRECISELY IN SQUARE 5097 AND LOT 51. THE PROPERTY IS A 4,250 SQUARE FEET PREVIOUSLY DEVELOPED TRACT OF LAND WHICH IS PROPOSED TO CONSTRUCT A CHURCH IN C-1 ZONING.

FOR THIS SITE, THE STORMWATER MANAGEMENT PLAN IS REQUIRED TO ADDRESS THE WATER QUALITY VOLUME IN ACCORDANCE WITH THE 2003 D.C. STORMWATER MANAGEMENT GUIDEBOOK. THIS SITE STORMWATER MANAGEMENT REQUIREMENTS WILL BE MET USING A CONTECH CATCH BASIN STORMFILTER TO FILTER AND TREAT ALL RUNOFF FROM ROOF AND IMPERVIOUS AREA.

UTILITY COMPANIES

POTOMAC ELECTRIC POWER CO.
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301-595-6052

SEWER & WATER SERVICE
D.C. WATER & SEWER AUTHORITY
5000 OVERLOOK AVE, S.W.
WASHINGTON, D.C. 20032
202-645-7651

UTILITIES LEGEND

- ⊙ STORM DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- ⊙ PEPCO MANHOLE
- ⊙ WATER MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ GAS VALVE
- ⊙ GAS METER
- ⊙ ELECTRIC METER
- ⊙ CLEAN OUT
- E — ELECTRIC POWER LINE
- OHW — OVERHEAD WIRE
- T — TELEPHONE LINE
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- PP — PEPCO POWER POLE
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- LP — PEPCO LIGHT POLE
- PS — PARKING SIGN
- TS — TRAFFIC SIGN
- ST — STOP SIGN

LEGEND

- WOOD FENCE
- CHAINLINK FENCE
- IRON RAIL FENCE
- GATE

SCALE: 1" = 10'

DC BENCHMARK
NORTH EAST CORNER 1st CONC. STEP
OF BLDG #4311 SHERIFF RD, N.E.
MAP NO. 14-17
ELEVATION: 32.50



GENERAL NOTES

TOTAL AREA OF PROPERTY = 4,250.0 SF (0.098 AC)
EXISTING IMPERVIOUS AREA = 2,038.15 SF (0.047 AC)
PROPOSED IMPERVIOUS AREA = 4,055.0 SF (0.093 AC)
TOTAL IMPERVIOUS AREA = 4,055.0 SF (0.093 AC)
DRAINAGE AREA = 5,104.2 SF (0.117 AC)

WATER QUANTITY VOLUME COMPUTATIONS
RUNOFF COMPUTATIONS - RATIONAL METHOD

PRE-DEVELOPED CONDITIONS: Q2=CIA
Q2 = 2 YEAR STORM FREQUENCY
C = RUNOFF COEFFICIENT 0.57 (COMPOSITE)
I = INTENSITY (5.28 IN/HR)
A = 0.117 ACRES
Q2 = 0.35 CFS
Tc = TIME OF CONCENTRATION 5 MIN (300 SEC)

POST DEVELOPED CONDITIONS Q15=CIA
Q15 = 15 YEAR STORM FREQUENCY
C = RUNOFF COEFFICIENT 0.79 (WEIGHTED COEFFICIENT)
I = INTENSITY 7.56 IN/HR
A = 0.117 ACRES
Q15 = 0.70 CFS
Tc = TIME OF CONCENTRATION 5 MIN. (300 SEC)

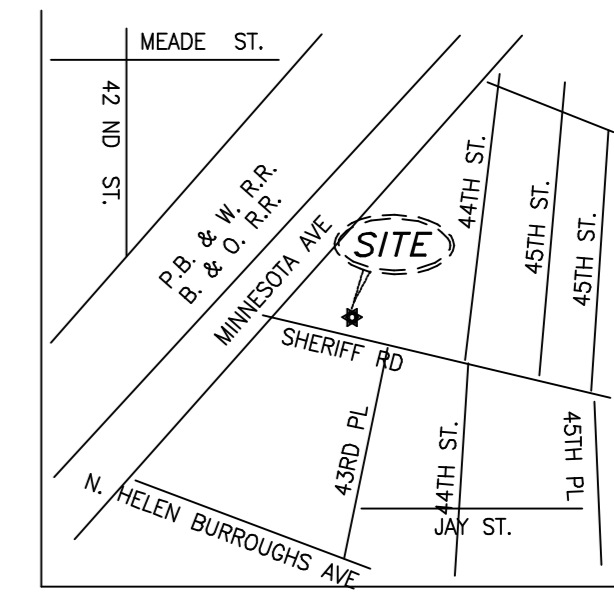
WATER QUANTITY VOLUME
VQ = 1.25 * Tc * (Q15post - Q2pre)
VQ = 1.25 * 300 * (0.70 - 0.35) = 131.25 C.F.

WATER QUALITY VOLUME
AREA OF IMPERVIOUS = 4,055.0 SF.
Vw = 0.083(0.3*4055) = 101.4 CF.
WATER QUALITY VOLUME TO BE TREATED IS 101.4 CF.
NOTE: VQ > Vw, THEREFORE THE CONTROLLING STORAGE VOLUME IS VQ.

FOR WATER QUALITY VOLUME REQUIREMENT USE:
TWO CARTRIDGE STEEL CATCHBASIN STORMFILTER AS SHOWN ON PLAN.

STORM DRAIN PIPE SIZING

Q = VA
Q = 0.70 CFS FLOW RATE
n = 0.013 MANNING ROUGHNESS COEFFICIENT
S = 0.005 PIPE BED SLOPE.
V = 2.3 FPS
USE 8" PVC PIPE SCHEDULE 40
CAPACITY OF 8" HDPE PIPE IS 0.79 CFS > Q = 0.70 CFS.



VICINITY MAP
SCALE: 1" = 2000'

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 526 THROUGH 535 OF THE DCMR-21, CHAPTER 5, RESPONSIBILITY MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE WATERSHED PROTECTION DIVISION OF THE DEPT. OF HEALTH FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY, CERTIFYING THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5 HAS BEEN ACCEPTED.

SIGNATURE OF THE PERSON RESPONSIBLE FOR MAINTENANCE
(IT MAY BE THE APPLICANT)

NAME AND TITLE (PLEASE TYPE)

ADDRESS:

DATE: TELEPHONE NO.:

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER SECTION 526 THROUGH 535 OF THE DCMR-21, CHAPTER 5. IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR THE MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

AFFIX SEAL

NAME AND TITLE:

A.A.H., LLC
ADDRESS: 4200 FORBES BLVD SUITE 203
LANHAM, MARYLAND 20706

DATE: TELEPHONE NO.: 301-429-1750

WITHIN 21 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE STORMWATER DISCHARGE FACILITY, PLEASE SEND THIS PAGE TO THE WATERSHED PROTECTION DIVISION DEPARTMENT OF HEALTH.

1. STORMWATER DISCHARGE FACILITY INFORMATION

SOURCE NAME: _____
SOURCE LOCATION: STREET: _____
CITY: _____
DCRA PERMIT NO.: _____
DATE ISSUED: _____

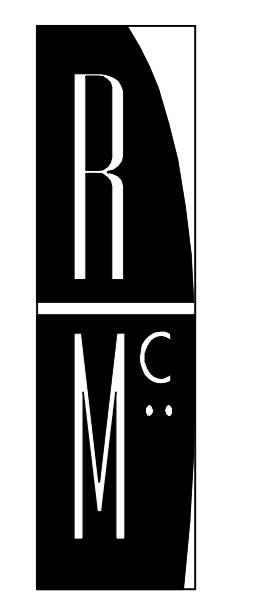
2. AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THIS STORMWATER DISCHARGE FACILITY HAS BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THAT ANY SUBSTANTIAL DEVIATIONS (NOTED BELOW) WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF SECTION 526 THROUGH 535 OF D.C. LAW 5-188 WHEN PROPERLY MAINTAINED AND OPERATED. THESE DETERMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF CONSTRUCTION, SCHEDULED AND CONDUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT ENGINEERING DRAWINGS.

SIGNATURE OF ENGINEER.
AFFIX SEAL

NAME (PLEASE TYPE) D.C. REG. NO.
A.A.H., LLC
COMPANY NAME
4200 FORBES BLVD SUITE 203
LANHAM, MARYLAND 20706
COMPANY ADDRESS

DATE: TELEPHONE NO. 301-429-1750



R. MCGHEE & ASSOCIATES

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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number:

2010-4318

Revisions:

No.	Date

CONSTRUCTION DOCUMENTS
75% CD

Issue Date:

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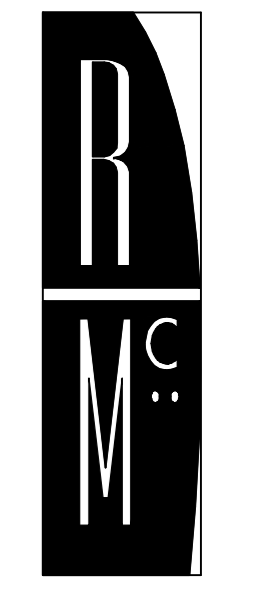
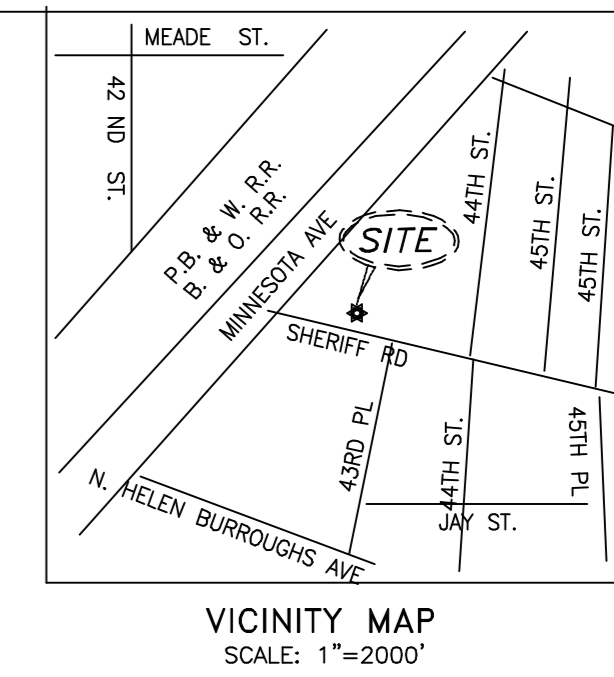
Sheet Title:

DRAINAGE PLAN

Sheet Number: C-4

UTILITY DISCLAIMER

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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number:
2010-4318

Revisions:

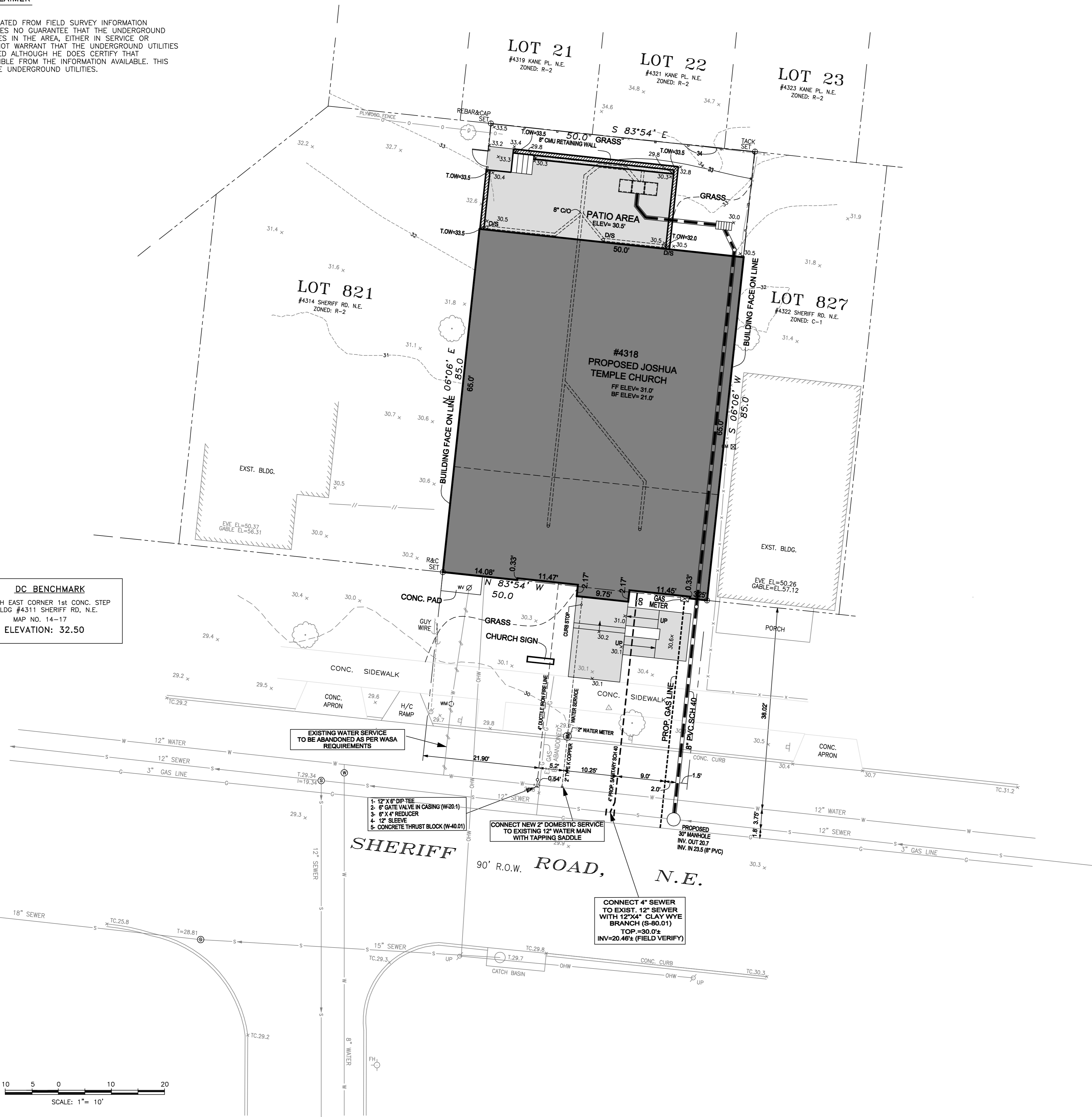
No.	Date

CONSTRUCTION DOCUMENTS
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Issue Date:
07.13.2011

Sheet Title:
UTILITY CONNECTION PLAN

Sheet Number: **C-6**

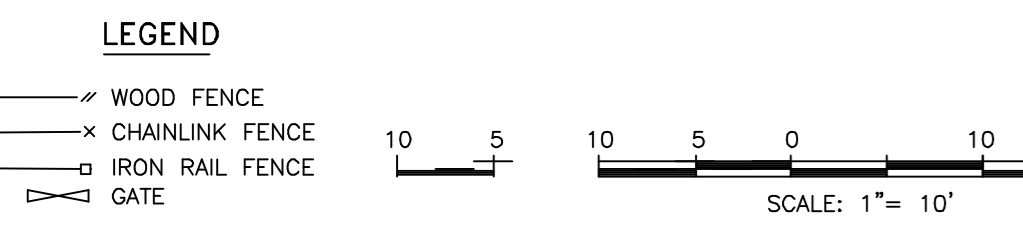


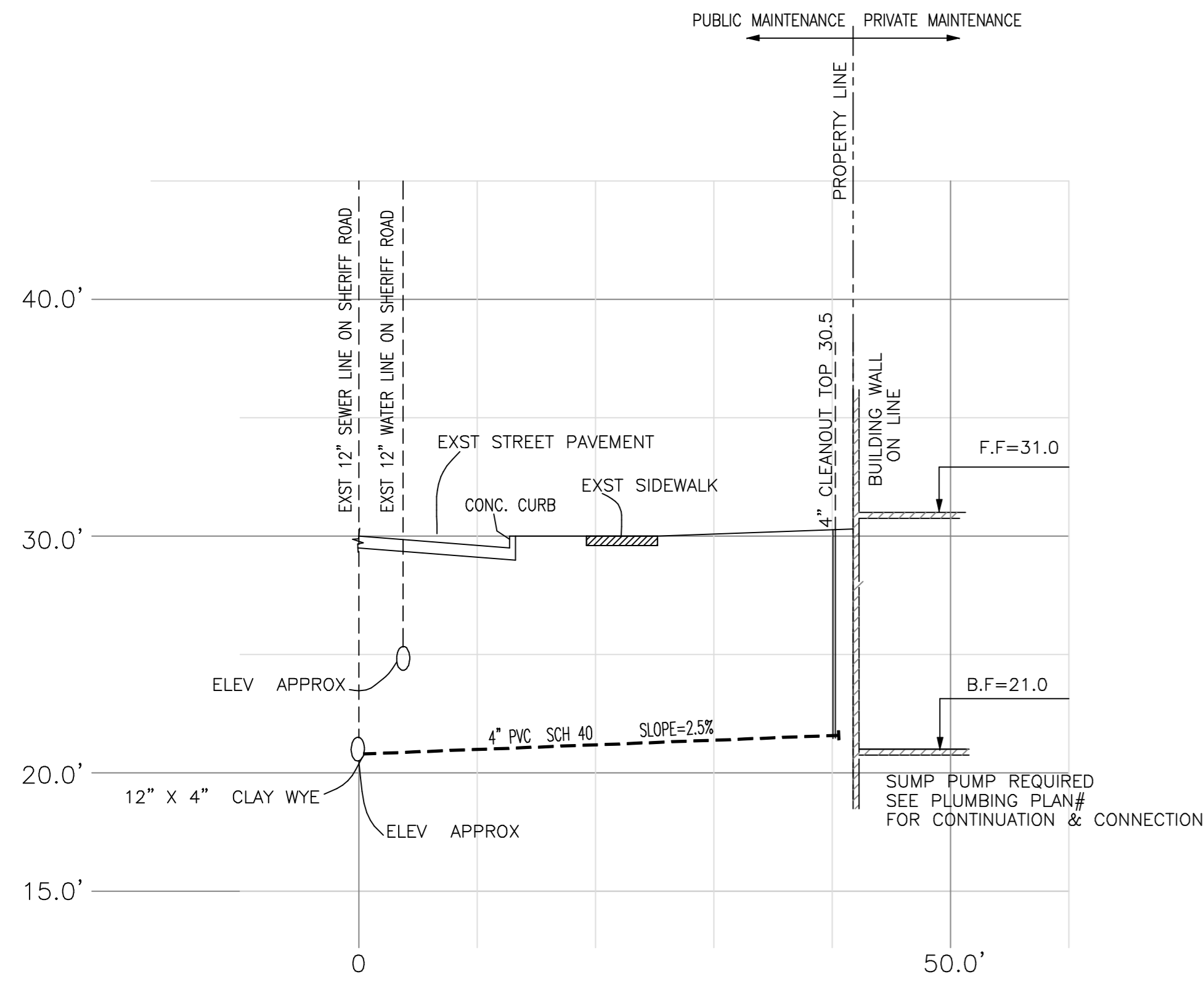
NOTES:

- THE CONTRACTOR OR OWNER REPRESENTATIVE SHALL OBTAIN NECESSARY PERMIT AND LICENSES AS REQUIRED FOR CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF CROSSING UTILITIES BY EXPLORATORY EXCAVATION PRIOR TO THE START OF CONSTRUCTION OF THE WATER LINE. THE CONTRACTOR SHALL PROVIDE FIELD MEASURED LOCATIONS AND ELEVATIONS TO THE OWNERS REPRESENTATIVE. IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND THE PROPOSED WATER LINE, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL INSTALL TEMPORARY OR PERMANENT PAVEMENT REPLACEMENT AS NECESSARY TO MINIMIZE THE DISRUPTION OF TRAFFIC. NO TRENCH SHALL BE LEFT OPEN OR UNCOVERED DURING NON-WORKING HOURS.
- CONSTRUCTION METHODS, MATERIALS AND SPECIFICATIONS SHALL COMPLY WITH THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE STATED.
- CALL MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
 - A.) NOTIFY DCWASA ONE WEEK PRIOR TO START OF CONSTRUCTION, UTILITY INSPECTION SECTION AT 202-787-4299, WATER SERVICES 202-612-3400 OR 3460 AND SEWER SERVICES AT 202-264-3824 OR 3829.
 - B.) DEVELOPERS, CONTRACTORS AND PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO THE APPROPRIATE DCWASA INSPECTOR(S) FOR REVIEW AND APPROVAL. UPON COMPLETION OF NEW AND EXISTING UTILITIES TO BE ABANDONED IN PUBLIC SPACE, APPLICANT MUST SUBMIT THESE DRAWINGS. AS-BUILT DRAWINGS MUST SHOW DIMENSION, ELEVATION, RELOCATION OF ANY WASA UTILITIES AND PERTINENT INFORMATION.
 - C.) ONCE THE WASA INSPECTOR APPROVES THE AS-BUILT, A COPY MUST BE SUBMITTED TO THE DOCUMENTS AND PERMITS OFFICE AT ROOM 203 AND THE WATER AND SEWER DESIGN SECTION AT 5000 OVERLOOK AVENUE, S.W., WASHINGTON, D.C..
- UNDER DCWASA CUSTOMER FEES AND CHARGERS, CONTRACTORS, PLUMBERS, OWNERS ARE RESPONSIBLE FOR EXCAVATION, BACKFILLING, REPAVING AND RESTORATION OF PUBLIC SPACE FOR STREET AND SIDEWALKS CUTS, FOR NEW UTILITIES, CONNECTIONS AND TAPS. REMOVALS, ABANDONMENTS OF SERVICES MUST BE PERFORMED BY THE CONTRACTOR, AT THE WATER OR SEWER LINE WITHIN PUBLIC SPACE AND REPAIRED UNDER DCWASA INSPECTION. DCWASA IS NOT RESPONSIBLE FOR FINAL RESTORATION OF STREET AND SIDEWALK CUTS PERFORMED BY THE CONTRACTOR OR DEVELOPERS.
- UTILITIES INFORMATION SHOWN HEREON HAVE BEEN OBTAINED FROM PUBLIC RECORDS AND ARE APPROXIMATE. EXACT LOCATIONS. ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED.
- VERTICAL DATUM REFERENCE IS OBTAINED FROM PUBLIC RECORDS.
- EXISTING WATER METER AND VALVE WILL BE REMOVED AS PER WASA REQUIREMENTS.
- CURB WIDTH IS 6" UNLESS OTHERWISE NOTED.
- THE FIRE LINE WILL BE ALARMED.
- ALL WATER METERS FOR THIS PROJECT WILL BE LOCATED OUTSIDE.

UTILITY COMPANIES
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WASHINGTON D.C. 20068
202-331-6237
GAS SERVICE
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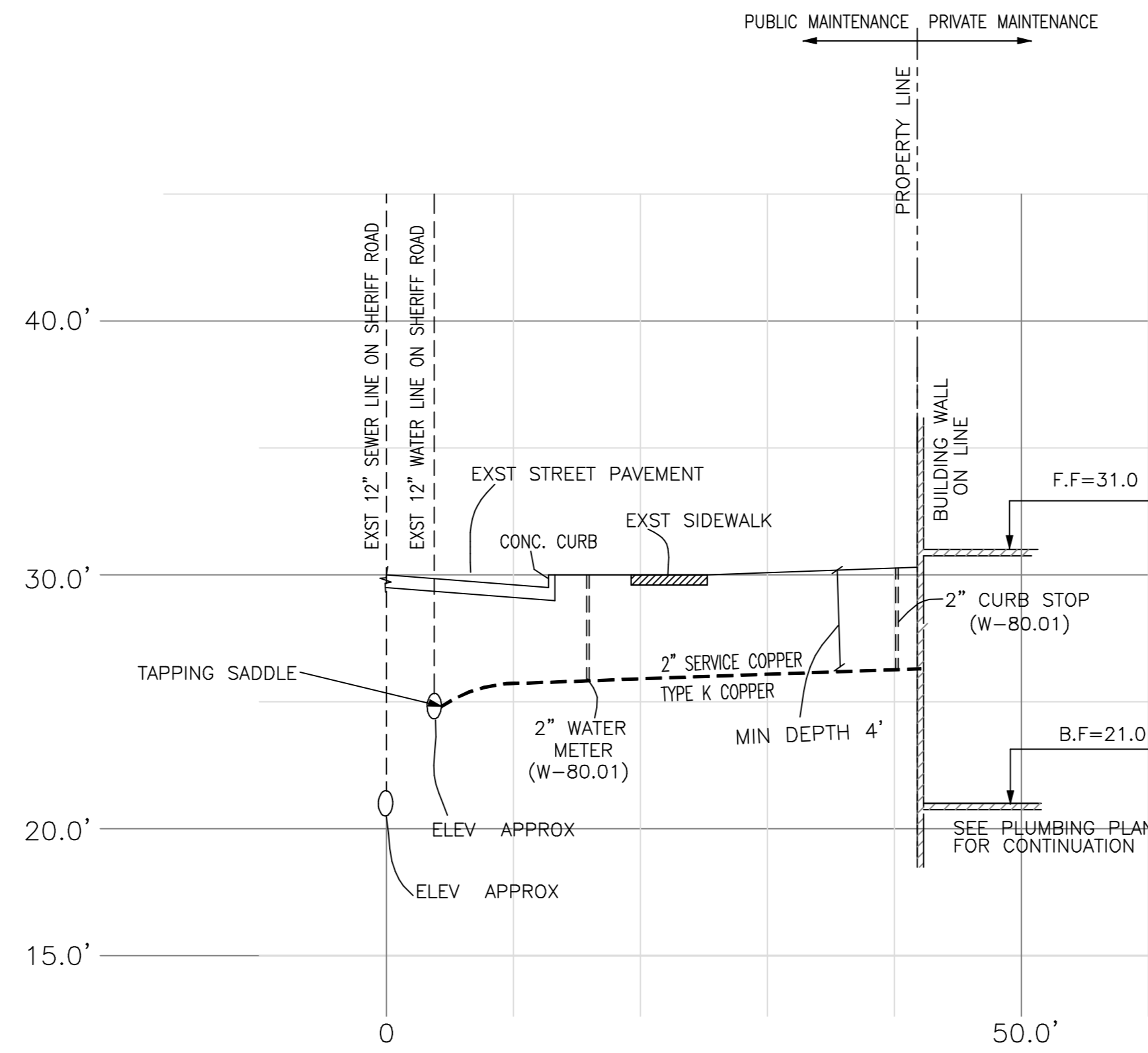
- DC BENCHMARK**
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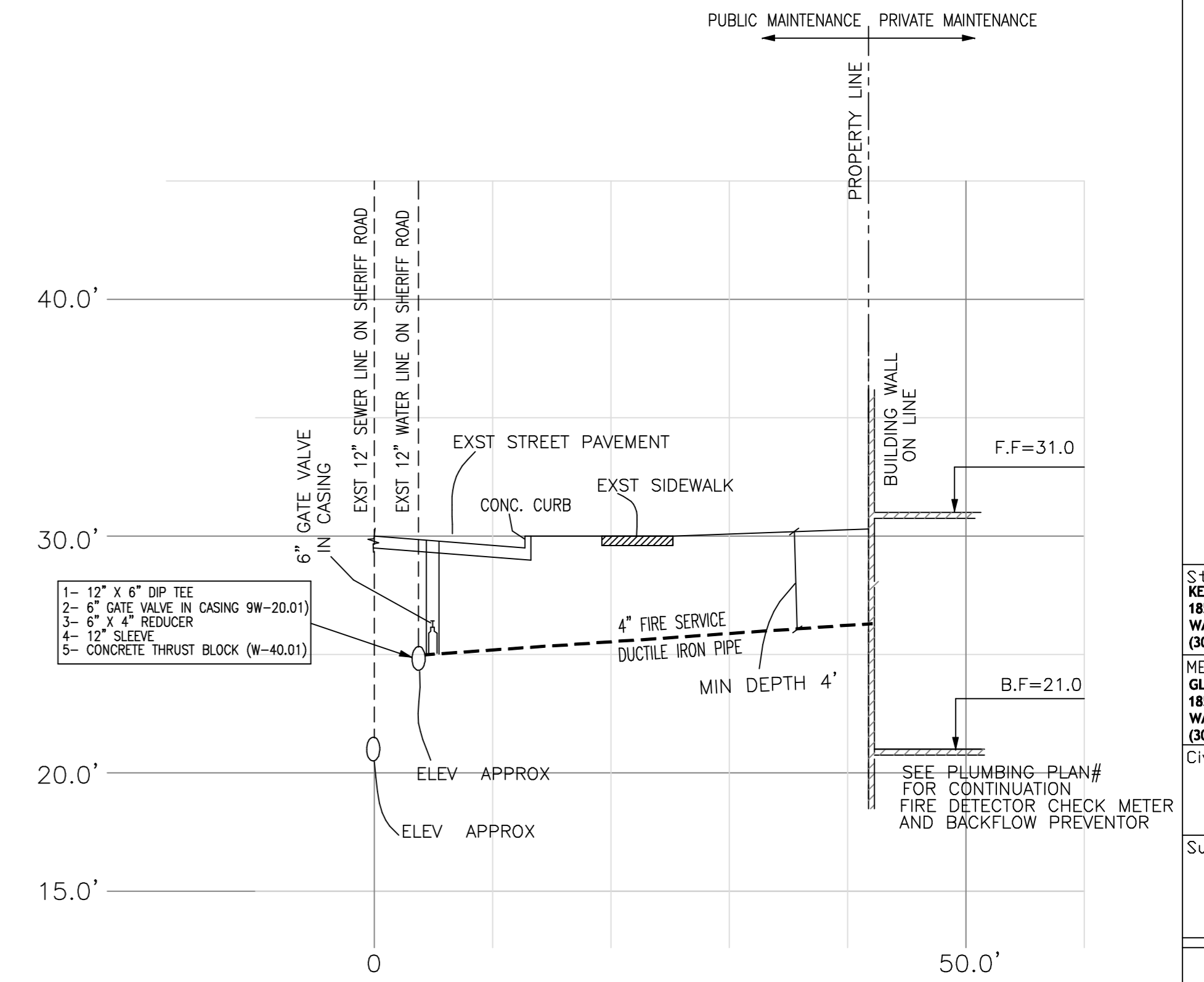
PROFILE OF SANITARY LINE

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'



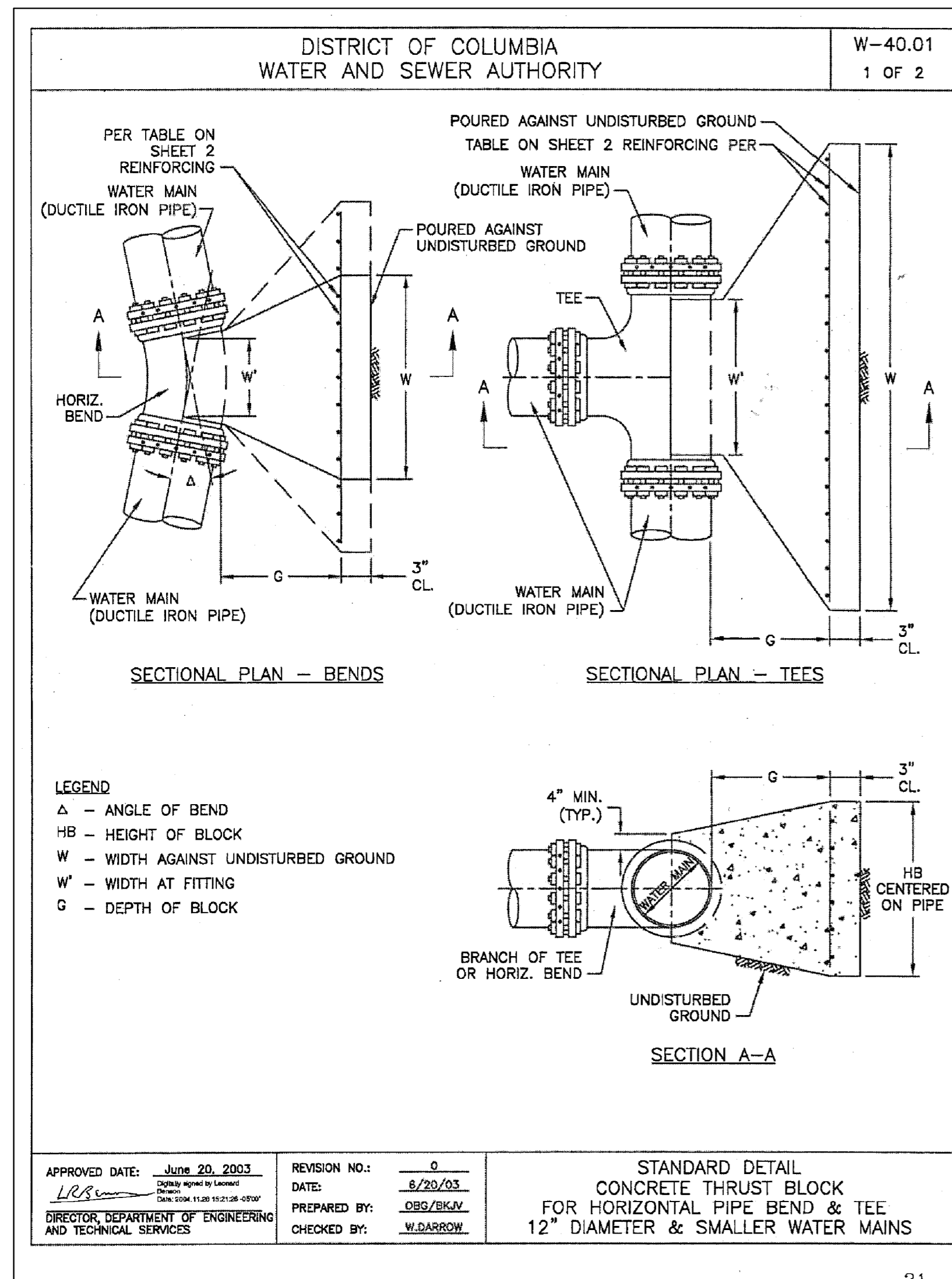
PROFILE OF DOMESTIC SERVICE

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'



PROFILE OF FIRE SERVICE

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'



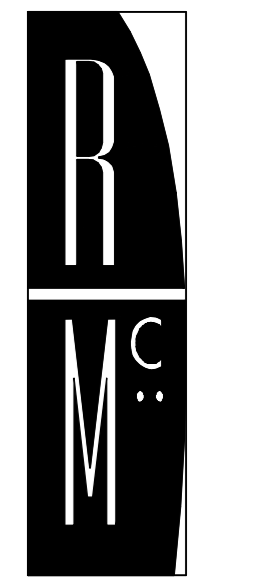
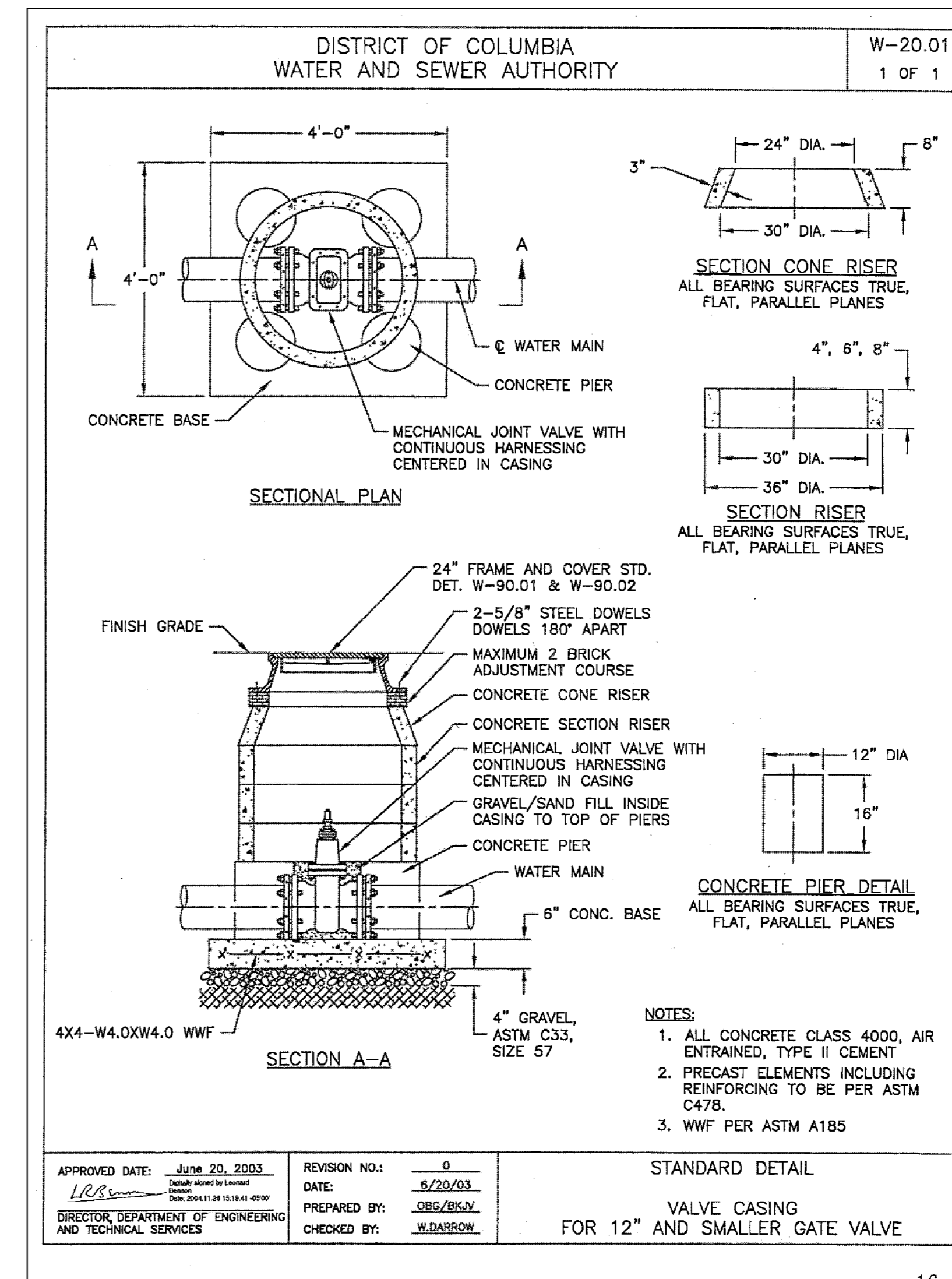
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY W-40.01 2 OF 2

BRANCH OF TEE OR PIPE DIA	BEND TYPE	W	HB	W'	G	REINF. (E.W.)
6"	11.25°	1'-6"	1'-6"	0'-8"	1'-0"	#4 @12"
	22.5°	1'-9"	1'-6"	0'-8"	1'-0"	#4 @12"
	45°	2'-8"	2'-0"	0'-8"	1'-0"	#4 @12"
	90°	4'-8"	2'-3"	0'-10"	1'-0"	#5 @12"
8"	TEE	3'-0"	3'-0"	0'-10"	1'-0"	#5 @12"
	11.25°	1'-6"	1'-6"	0'-8"	1'-0"	#4 @12"
	22.5°	1'-9"	1'-6"	0'-8"	1'-0"	#4 @12"
	45°	2'-8"	2'-0"	0'-8"	1'-0"	#4 @12"
12"	90°	5'-0"	3'-9"	1'-0"	1'-6"	#6 @12"
	TEE	4'-0"	3'-5"	1'-4"	1'-0"	#5 @12"
	11.25°	2'-8"	2'-6"	1'-0"	1'-0"	#4 @12"
	22.5°	3'-5"	2'-6"	1'-0"	1'-3"	#4 @12"
12"	45°	7'-0"	4'-6"	1'-4"	1'-6"	#6 @12"
	90°	10'-0"	4'-8"	1'-4"	1'-6"	#6 @12"
12"	TEE	8'-6"	5'-0"	1'-4"	1'-6"	#6 @12"

NOTES:
1. ALL CONCRETE TO BE CLASS 4000, AIR ENTRAINED, TYPE II CEMENT
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60
3. NOMINAL DEPTH OF COVER ON WATER MAIN IS FOUR FEET
4. UNIT WEIGHT OF SOIL, 120 PCF
5. DESIGN BASED ON $\phi = 30^\circ$ AND TEST PRESSURE = 195 PSI
6. HB - HEIGHT OF BLOCK, W'-WIDTH AT FITTING AND W-WIDTH AGAINST UNDISTURBED GROUND SHOULD BE CENTERED ON PIPE AND FITTING.
7. FOR PIPE SIZE GREATER THAN 12", BLOCKS BEDDED IN SOILS WEAKER THAN $\phi = 30^\circ$, OR FOR MAINS WITH A TEST PRESSURE GREATER THAN 195 PSI, THE THRUST BLOCK MUST BE SPECIFICALLY DESIGNED FOR EACH APPLICATION.

APPROVED DATE: June 20, 2003
REVISION NO.: 0
DATE: 8/20/03
PREPARED BY: OSG/BC/L
CHECKED BY: W.DARROW

STANDARD DETAIL
CONCRETE THRUST BLOCK
FOR HORIZONTAL PIPE BEND & TEE
12" DIAMETER & SMALLER WATER MAINS



R. McGHEE & ASSOCIATES

740 6TH ST, NW SUITE 302
WASHINGTON, DC 20001
T: 202.626.0690
F: 202.626.0004

Structural:
KEAST & HOOD CO.
1850 M STREET NW #610
WASHINGTON, DC
(301) 226-1941

MEP:
GLOBAL ENGINEER SOLUTIONS (GES)
1850 M STREET NW #610
WASHINGTON, DC
(301) 216-2871

Civil:
AAH CONSULTING
4200 FORBES BLVD #203
LANHAM, MD 20706
(301) 429-1750

Surveying:
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4200 FORBES BLVD #203
LANHAM, MD 20706
(301) 429-1750

JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number:
2010-4318

Revisions:

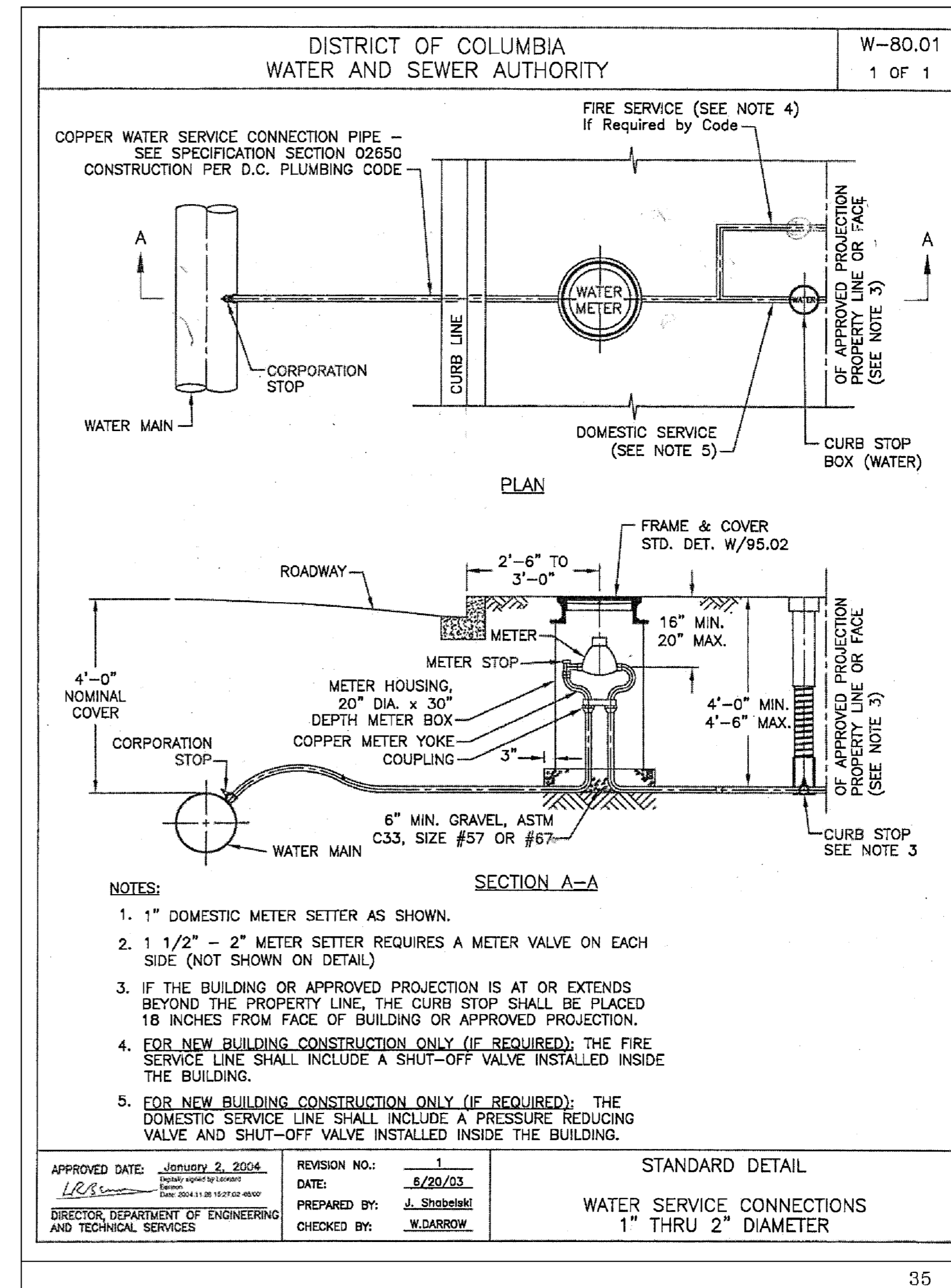
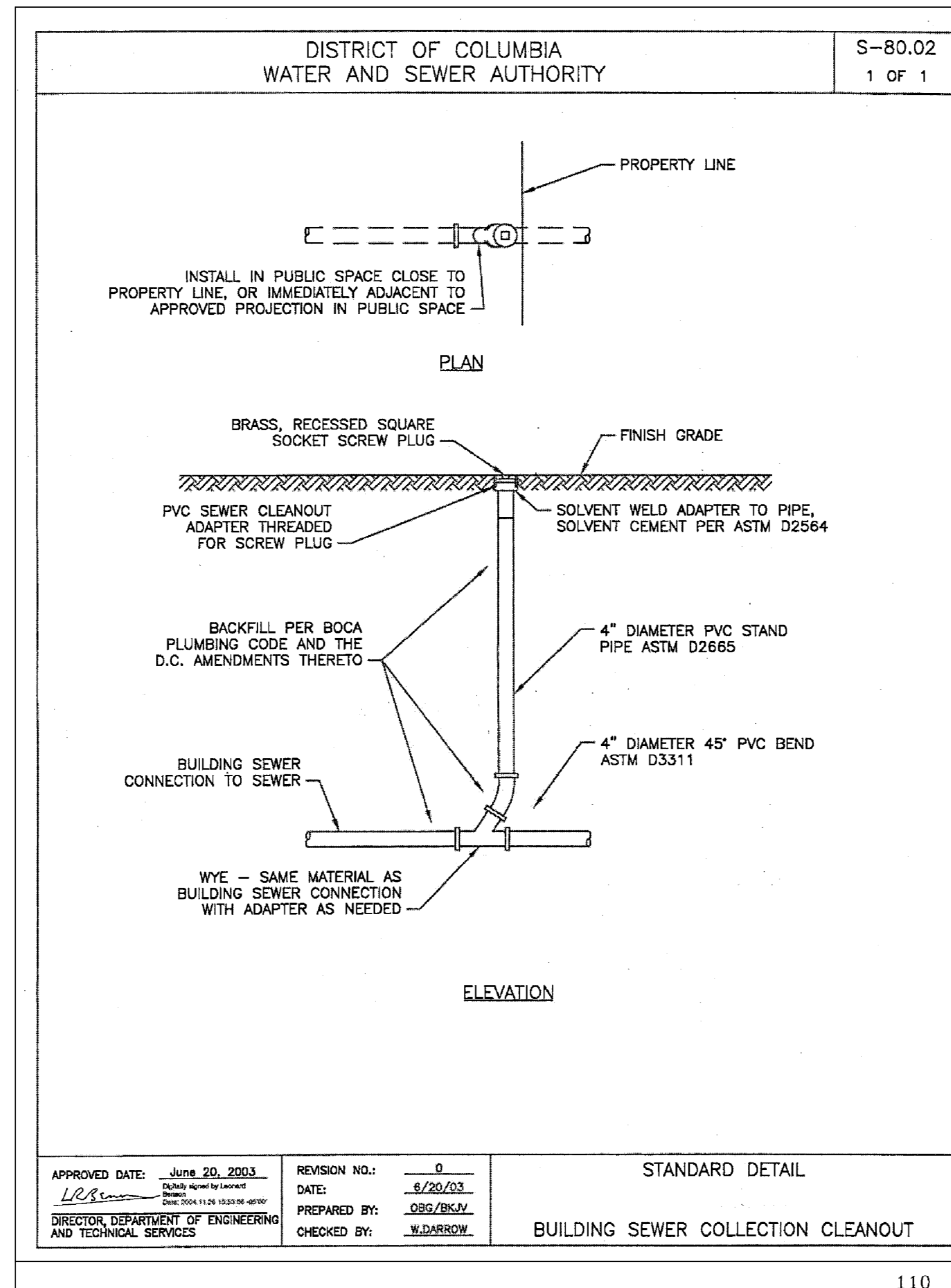
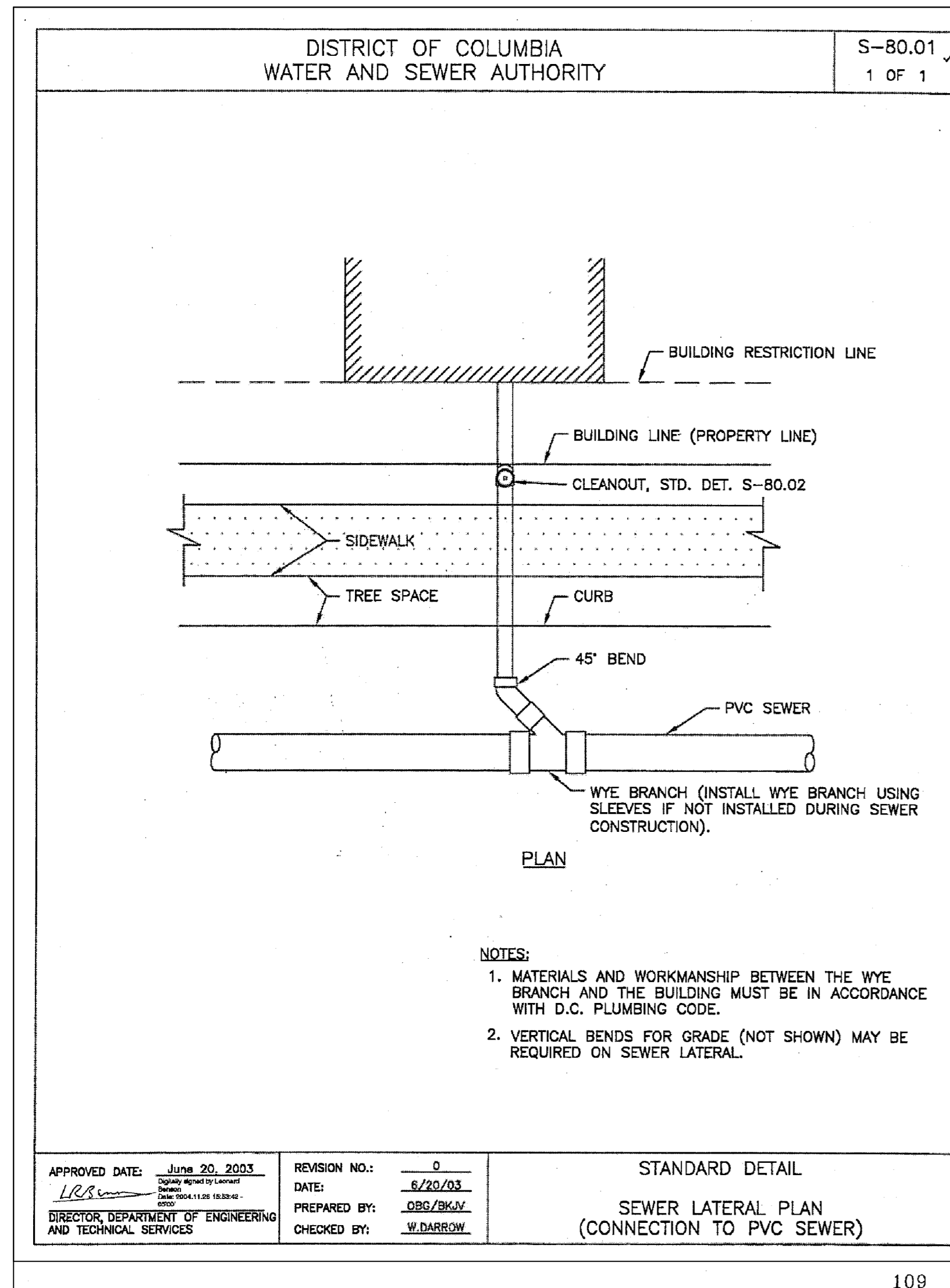
No.	Date

CONSTRUCTION DOCUMENTS
75% CD

Issue Date:
07.13.2011

Sheet Title:
PROFILE & DETAILS

Sheet Number: C-7



DCWASA
Backflow Prevention Form

Information Requirement For Approval of Backflow Preventers for Water Services

Project Location:

A. Street Address: 4318 Sheriff Rd. N.E. Washington, D.C.
Quadrant:

B. Lot(s): 51 Square: 5097

C. Number of water services: 1 Size of water service(s): 2"

D. Closest cross street to the project: Minnesota Ave.

E. Backflow Preventer Information:

	Domestic Service	Fire Service
Backflow Preventer Type	Double Check	Double Check Detector
Manufacturer	Ames	Ames
Size	2"	4"
Model	709DC	3000SS w/ Wassa compliant AMR
ASSE #	1015	1048

Design Firm: Global Engineering Solutions
Address: 1355 Piccard Drive, Suite 260
City: Rockville State: MD Zip Code: 20850
Tel: (301) 216-2871 Fax: (301) 216-9671 Date Requested: 07/19/11

Design Engineer (print) Tiffany Dinsmore Signature: *Tiffany Dinsmore*

Tel: () Fax: () Date:

Notes:

WASA Approval: (Name) signature:

BIRT Report Viewer Page 1 of 1

Department of Water Services
Flow Test Report

Application Location: 4318 SHERIFF RD NE Job No:
Reason for Application: Hydrant Flow Test for Developer Application Received: 10/22/10
Pressure Zone/Reservoir Elev: Low Serv/Brentwd Res/161'-168' SO #: 11-14728

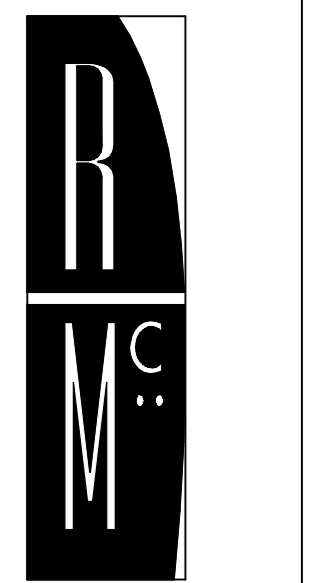
Discharge Hydrant #	Residual Hydrant
Discharge Hydrant # 1 Location: 43RD PL INT SHERIFF RD NE SEC Asset #: H03695 Outlet Dia. (in.): 2.5 Velocity Pressure: 15 Rate (gpm): 578	Residual Hydrant Location: MINNESOTA AVE INT SHERIFF RD NE NorthSide Asset #: H01450 FH Elevation (ft.): 31 Static Pressure (psi): 60 Residual Pressure (psi): 56 Pressure Loss (psi): 4
Discharge Hydrant # 2 Location: MINNESOTA AVE INT NANNIE HELEN BURROUGHS AVE NE SEC Asset #: H06497 Outlet Dia. (in.): 2.5 Velocity Pressure: 45 Rate (gpm): 1000	Calculations Reservoir Elevation (ft): 165 Minus FH Elevation (ft): 31 FH Water Level (ft.): 134 Divide By: 2.31 Theoretical FH Pressure (psi): 58
Discharge Hydrant # 3	Total Flow (gpm): 1578

THEORETICAL HYDRANT PRESSURE = 58 psi. FLOW AVAILABLE AT 20 psi RESIDUAL = 5,472 gpm

Flow at 20psi is an APPROXIMATION only. Distribution system capacity in the future depends on: Demands / Pump Operation / Valve Positions / Water Main Deterioration / Water Main Breaks / Power Outages. WASA does not guarantee the availability of the above calculated flow at 20psi.

Test Performed By: William Anderson Date of Test: 11/6/10 Time of Test: 12:00
Test Checked By: Richard L. Penn Test Approved By: *[Signature]*
December 8, 2010 Report #: R044 1 / 1

- NOTES:
1. THE CONTRACTOR OR OWNER REPRESENTATIVE SHALL OBTAIN NECESSARY PERMIT AND LICENSES AS REQUIRED FOR CONSTRUCTION.
 2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF CROSSING UTILITIES BY EXPLORATORY EXCAVATION PRIOR TO THE START OF CONSTRUCTION OF THE WATER LINE. THE CONTRACTOR SHALL PROVIDE FIELD MEASURED LOCATIONS AND ELEVATIONS TO THE OWNERS REPRESENTATIVE. IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND THE PROPOSED WATER LINE, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE.
 3. THE CONTRACTOR SHALL INSTALL TEMPORARY OR PERMANENT PAVEMENT REPLACEMENT AS NECESSARY TO MINIMIZE THE DISRUPTION OF TRAFFIC. NO TRENCH SHALL BE LEFT OPEN OR UNCOVERED DURING NON-WORKING HOURS.
 4. CONSTRUCTION METHODS, MATERIALS AND SPECIFICATIONS SHALL COMPLY WITH THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE STATED.
 5. CALL MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
- A.) NOTIFY DCWASA ONE WEEK PRIOR TO START OF CONSTRUCTION, UTILITY INSPECTION SECTION AT 202-787-4299, WATER SERVICES 202-612-3400 OR 3460 AND SEWER SERVICES AT 202-264-3824 OR 3829.
- B.) DEVELOPERS, CONTRACTORS AND PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO THE APPROPRIATE DCWASA INSPECTOR(S) FOR REVIEW AND APPROVAL. UPON COMPLETION OF NEW AND EXISTING UTILITIES TO BE ABANDONED IN PUBLIC SPACE, APPLICANT MUST SUBMIT THESE DRAWINGS. AS-BUILT DRAWINGS MUST SHOW DIMENSION, ELEVATION, RELOCATION OF ANY WASA UTILITIES AND PERTINENT INFORMATION.
- C.) ONCE THE WASA INSPECTOR APPROVES THE AS-BUILT, A COPY MUST BE SUBMITTED TO THE DOCUMENTS AND PERMITS OFFICE AT ROOM 203 AND THE WATER AND SEWER DESIGN SECTION AT 5000 OVERLOOK AVENUE, S.W., WASHINGTON, D.C..
6. UNDER DCWASA CUSTOMER FEES AND CHARGES, CONTRACTORS, PLUMBERS, OWNERS ARE RESPONSIBLE FOR EXCAVATION, BACKFILLING, REPAVING AND RESTORATION OF PUBLIC SPACE FOR STREET AND SIDEWALKS CUTS, FOR NEW UTILITIES, CONNECTIONS AND TAPS. REMOVALS, ABANDONMENTS OF SERVICES MUST BE PERFORMED BY THE CONTRACTOR, AT THE WATER OR SEWER LINE WITHIN PUBLIC SPACE AND REPAIRED UNDER DCWASA INSPECTION. DCWASA IS NOT RESPONSIBLE FOR FINAL RESTORATION OF STREET AND SIDEWALK CUTS PERFORMED BY THE CONTRACTOR OR DEVELOPERS.



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& ASSOCIATES

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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
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Project Number:
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Revisions:

No.	Date

CONSTRUCTION
DOCUMENTS
75% CD

Issue Date:
07.13.2011

Sheet Title:
UTILITY CONNECTION
DETAILS & NOTES

Sheet Number: C-8

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DC-23.03 1 OF 3

DESIGN GUIDELINE
METER INSTALLATION
DETECTOR CHECK METER

SECTIONAL PLAN
(NOT TO SCALE)

DATE October 24, 2004

REVISION NO. 0

PREPARED BY: ORG/BR/KAY

REVIEWED BY: J. SHABELSKI

APPROVED BY: J. SHABELSKI

129

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DC-23.03 2 OF 3

DESIGN GUIDELINE
METER INSTALLATION
DETECTOR CHECK METER

SECTION A-A
(NOT TO SCALE)

DATE October 24, 2004

REVISION NO. 0

PREPARED BY: ORG/BR/KAY

REVIEWED BY: J. SHABELSKI

APPROVED BY: J. SHABELSKI

130

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DC-23.03 3 OF 3

DESIGN GUIDELINE
METER INSTALLATION
DETECTOR CHECK METER

SIZE	A	B	C	D	E	F	G	H	I	J
3"	72"	72"	72"	16.5"	-	-	10"	12"	-	8"
4"	72"	72"	72"	16.5"	-	-	10.5"	12"	-	9"
6"	72"	72"	72"	22.5"	-	-	11.625"	12"	-	10.5"
8"	72"	72"	72"	26.5"	-	-	12.625"	12"	-	11.5"
10"	96"	72"	72"	36"	-	-	13.75"	12"	-	13"

NOTES:

- SEALED STRUCTURAL COMPUTATIONS AND REINFORCING DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATIONS.
- MANHOLE STEPS TO BE M.A. INDUSTRIES MODEL PS3-PFC OR APPROVED EQUAL. CAST INSERTS IN WALL 12" ON CENTER.
- CONCRETE TO BE CLASS 4000, TYPE II CEMENT.
- DUCTILE IRON PIPE JOINTS WITHIN VAULT SHALL BE FLANGED.
- DETECTOR CHECK METERS MUST MEET ASSE #1048 AND ANSI/AWWA C510-97 FOR DOUBLE CHECK TYPES; AND ASSE#1047 AND ANSI/AWWA C511-97 FOR REDUCED PRESSURE DETECTOR CHECK METERS.
- IF A REDUCED PRESSURE BACKFLOW PREVENTER IS REQUIRED ON THE FIRE SERVICE LINE, THEN A REDUCED PRESSURE DETECTOR CHECK METER MUST BE INSTALLED INSIDE OF THE BUILDING ACCORDING TO THE DCWASA INSIDE DESIGN CRITERIA.
- THIS DRAWING SUPERCEDES DRAWING G-613 DATED 1-09-1964.

DATE October 24, 2004

REVISION NO. 0

PREPARED BY: ORG/BR/KAY

REVIEWED BY: J. SHABELSKI

APPROVED BY: J. SHABELSKI

131

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Meter Sizing Worksheet

Project Name: Joshua Temple Church
Project Address: 4318 Sheriff Rd. N.E. Washington, D.C.
Project Lot & Square: Lot 51 Square 5097
Owner's Name: JOSHUA TEMPLE CHURCH
Owner's Address: 4318 SHERIFF RD. N.E. WASHINGTON DC
Owner's phone or email: 202-899-3499

Designer's Name: Shari Shariff
Designer's Company: Global Engineering Solutions
Designer's Address: 1355 Piccard Dr. Suite 260 Rockville, MD 20850
Designer's phone and/or email: Shariff@ges.com

Type of Occupancy: Hotel Shopping Center Restaurant Public School Public Building Hospital Apartment Condominiums Motels Trailer Parks

Hydrant Flow Test Results
Static Pressure: 60 Residual Pressure: 56

Indoor Fire Detector Check Installation?
No Yes Designer has confirmed that the drainage system has the capacity to handle flow test

Agreement and Signature
The designer is responsible for determining required domestic, irrigation, mechanical, and fire flows in addition to the proper sizing of meters. By submitting this application, I affirm that the information provided is correct.
Designer's Name (printed): Tiffany Densmore
Signature/Date: [Signature] 7/19/11

DCWASA Use Only
The information provided in this application has been reviewed and approved.
Tracking No: Reviewer: Date:

Project Name: Joshua Temple Church

Fixture Type (standardized at 60 psi)	Fixture value (gpm)	Number of Fixtures	Total Fixture Value (gpm)
Bathtub	8	x	= 0
Bedpan Washers	10	x	= 0
Bidet	2	x	= 0
Dental Unit	2	x	= 0
Drinking Fountain (public)	2	x 1	= 2
Faucet (kitchen sink)	2.2	x 1	= 2
Faucet (lavatory)	1.5	x 5	= 8
Shower Head (shower only)	2.5	x 1	= 3
Faucet (utility sink)	4	x 1	= 4
Urinal (flush valve)	35	x 1	= 35
Urinal (wall or stall)	16	x	= 0
Urinal Trough (2 ft. unit)	2	x	= 0
Toilet Flush Valve	35	x 3	= 105
Toilet Tank Type	4	x 1	= 4
Dishwasher	2	x	= 0
Clothes Washer	6	x	= 0
Hose (50 ft length wash down) 1/2" connection	5	x 1	= 5
Hose (50 ft length wash down) 5/8" connection	9	x	= 0
Hose (50 ft length wash down) 3/4" connection	12	x 2	= 24
other	x	=	= 0
Total Fixture Value			= 191
Water Flow Demand per fixture value (Figures 1 & 2 (see page 5 of 5)) gpm			= 60
Pressure adjustment factor (Table 1 (see page 4 of 5))			= 0.90
Water Flow Demand x Pressure Factor gpm			= 54.0
Total Domestic Demand gpm			= 54

Information obtained from the American Water Works Association M22 2nd Ed.

Project Name: Joshua Temple Church

Irrigation Demand (Intermittent)	Factor	Fixture Value (gpm)
Irrigated Area with SPRAY Systems	0 x	= 0
Irrigated Area with ROTARY Systems	0 x	= 0
Number of Hose Bibs	0 x	= 0
Sub-Total Irrigation Demand (Irrigation + Hose Bib) gpm		= 0
Pressure adjustment factor (Table 1 (see page 4 of 5))		= 0
Sub-Total Irrigation Demand x Pressure Factor gpm		= 0
Total Fixed Demands (if any) gpm		= 0
Total Irrigation Demand gpm		= 0

Mechanical Demand (Continuous and/or Intermittent)	Total Continuous Mechanical Demand gpm	Total Intermittent Mechanical Demand gpm
Mechanical Demand (Continuous and/or Intermittent)	= 0	= 0
Total Mechanical Demand gpm	= 0	= 0

Fire Demand, if required by code (Intermittent)

Does the building require a fire pump? Yes No

Actual Fire Flow Demand (Per NFPA requirements) gpm = 475

Pump Test Demand (if required, 150% of actual demand) gpm = n/a

Fire Service Lateral Sizing
Fire Service Lateral Size (in) = 4"

See Table 4 on page 4 of 5. The velocity in the lateral must be ≤ 15 fps.

Meter Selection**

Combined Meter Size (in) Domestic Meter Size (in) 2"

**You will have either a large (3" or more) separate domestic and fire services Or a small (2" or less) combined service

Acceptance Criteria Verification (refer to Tables 2 & 3 on page 4 of 5)

Dedicated Domestic Service Only (for 2" and larger services)

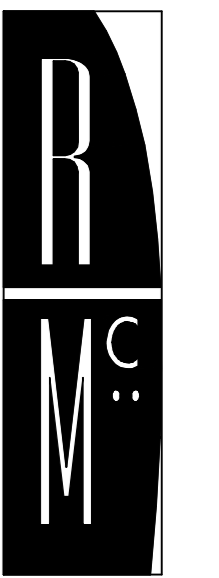
Normal Operating Demand: Domestic + Mechanical (cont.) gpm 54 ≤ _____ gpm Is the flow rate within the Max Rate for Cost Operation?

Total Flow This Meter + Domestic + Irrigation + Mechanical (cont.) gpm 54 ≤ _____ gpm Is the flow rate within Safe Max Operating Capacity?

Total flow through meter = Combined Domestic & Fire Service (for 2" and smaller services)

Domestic + Irrigation + Mechanical (cont.) + Fire 529 ≤ _____ gpm Is the flow rate within Safe Max Operating Capacity?

If your meter is sized smaller or larger than recommended please provide an explanation.



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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number: 2010-4318

Revisions:

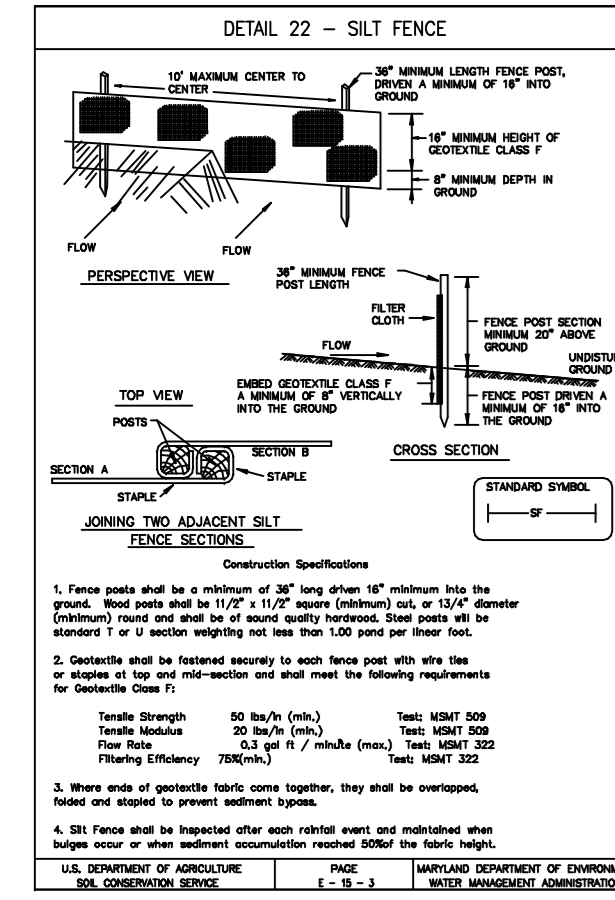
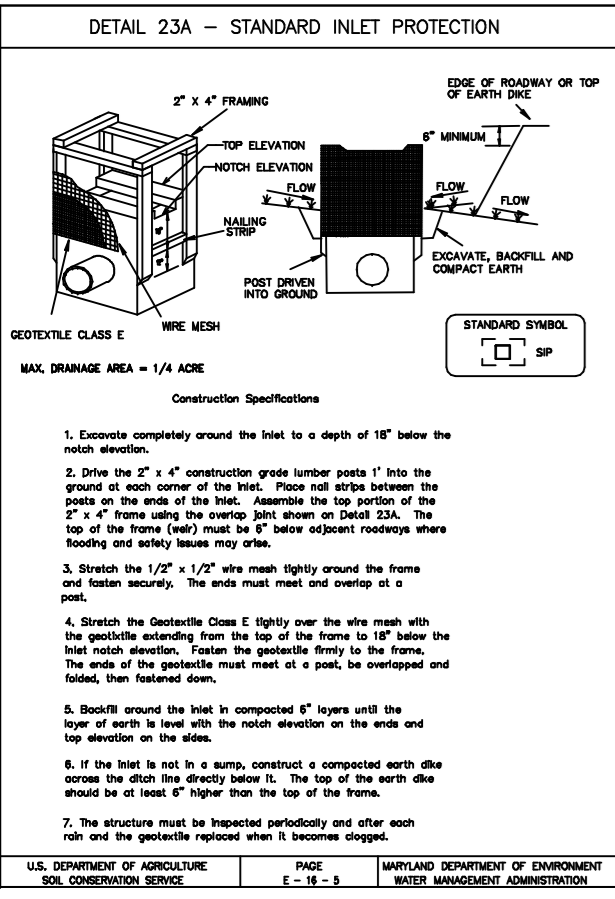
No.	Date

CONSTRUCTION DOCUMENTS
75% CD

Issue Date: 07.13.2011

Sheet Title: UTILITY CONNECTION DETAILS & NOTES

Sheet Number: C-9



UTILITY COMPANIES

POTOMAC ELECTRIC POWER CO.
701 9th STREET, N.W.
WASHINGTON D.C. 20068
202-331-6237

GAS SERVICE
WASHINGTON GAS COMPANY
6801 INDUSTRIAL RD
SPRINGFIELD VA. 22151
703-750-1000

TELEPHONE SERVICE
VERIZON
3901 CALVERTON BOULEVARD
BELTSVILLE, MD. 20705
301-595-6052

SEWER & WATER SERVICE
D.C. WATER & SEWER AUTHORITY
5000 OVERLOOK AVE. S.W.
WASHINGTON, D.C. 20032
202-645-7651

DC BENCHMARK

NORTH EAST CORNER 1st CONC. STEP
OF BLDG #4311 SHERIFF RD, N.E.
MAP NO. 14-17
ELEVATION: 32.50

UTILITIES LEGEND

⊙ STORM DRAIN MANHOLE
⊙ SEWER MANHOLE
⊙ PEPCO MANHOLE
⊙ WATER MANHOLE
F/H/O FIRE HYDRANT
WM WATER METER
WV WATER VALVE
GV GAS VALVE
GM GAS METER
EM ELECTRIC METER
CO CLEAN OUT

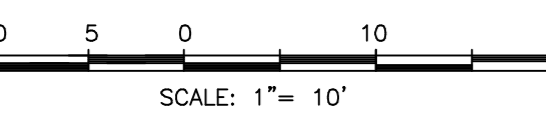
—E— ELECTRIC POWER LINE
—OH— OVERHEAD WIRE
—T— TELEPHONE LINE
—G— GAS LINE
—S— SEWER LINE
—SD— STORM DRAIN
—W— WATER LINE

PP-7 PEPCO POWER POLE
UP-7 UTILITY POLE
TP-7 TELEPHONE POLE
LP-7 PEPCO LIGHT POLE
PS-PARKING SIGN
TS-TRAFFIC SIGN
ST-STOP SIGN

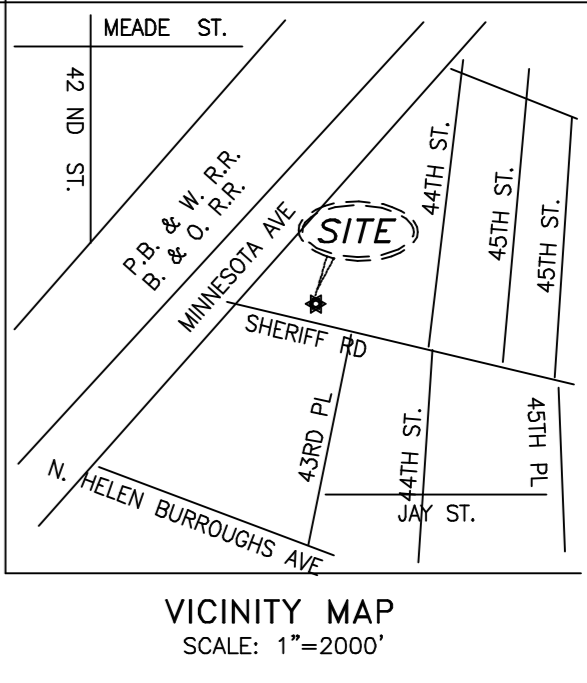
LEGEND

--- WOOD FENCE
--- CHAINLINK FENCE
--- IRON RAIL FENCE
--- GATE

--- LIMITS OF DISTURBANCE
--- SILT FENCE
--- SLOTTED FENCE
--- INLET PROTECTION



SCALE: 1" = 10'



- EROSION AND SEDIMENT CONTROL NOTES**
1. ALL EROSION AND SEDIMENT CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA. IF AN ONSITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY THE SAME SHALL BE PROVIDED.
 2. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
 3. STREETS AND SIDEWALKS SHALL BE SWEEP CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
 4. ALL CATCH BASINS AND STORM DRAINS SHALL BE SWEEP CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
 5. IF ANY CATCH BASINS OR STORM DRAINS SHALL BECOME CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS CLEANING.
 6. ANY STOCKPILING, REGARDLESS OF LOCATION ON THE SIDE, SHALL BE STABILIZED WITHIN 20 DAYS AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
 7. CONSTRUCTION IS NOT TO START ON STORMWATER MANAGEMENT FACILITIES UNTIL CONSTRUCTION HAS BEEN SUBSTANTIALLY COMPLETED AND DISTURBED AREA HAS BEEN STABILIZED.

- CONSTRUCTION NARRATIVE**
1. THIS IS REDEVELOPMENT PROJECT LOCATED AT 4318 SHERIFF ROAD, N.E. IN THE DISTRICT OF COLUMBIA.
 2. THE PROPERTY IS ZONED C-1. TOTAL AREA OF THE PROPERTY IS 4,250 SQUARE FEET.
 3. ALL SEDIMENT CONTROL MEASURE WILL BE IN PLACE PRIOR TO EXCAVATION. A PERMIT WILL BE FOR CONSTRUCTION STREET PARKING.
 4. CONNECTION OF ALL NEW UTILITIES WILL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE WASHINGTON AREA SEWER AUTHORITY.
 5. TOTAL DISTURBED AREA = 5,515.0 SF, VOLUME OF EXCAVATION = 157.0 CY, VOLUME OF FILL = 0 CY

- SEQUENCE OF CONSTRUCTION**
1. PRIOR TO CLEARING OF ANY TREES OR SHRUBS, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON THE SITE WITH DISTRICT OF COLUMBIA SEDIMENT CONTROL INSPECTOR.
 2. THE LIMITS OF DISTURBANCE SHALL BE FIELD MARKED PRIOR TO CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES, BUILDING DEMOLITION OR ANY OTHER LAND DISTURBING
 3. CLEAR AND GRADE THE PROJECT SITE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
 4. INSTALL SEDIMENT CONTROL DEVICES AS PER APPROVED PLAN.
 5. ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITEE MUST OBTAIN APPROVAL FROM THE DISTRICT OF COLUMBIA INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRADING OR DEMOLITION WORK.
 6. BEFORE COMMENCING EXCAVATION, NOTIFY MISS UTILITY AT LEAST 48 HOURS IN ADVANCE.
 7. INSTALL ALL SILT FENCE AND INLET PROTECTION TO NEW YARD INLET.
 8. INSTALL NEW 8" STORM DRAIN PIPE AND STREET MANHOLE.
 9. PROVIDE A STEM PIPE FROM YARD INLET TO CONNECT TO UNDERGROUND STORMFILTER.
 10. CONSTRUCT BUILDING FOUNDATION, WALLS, WALKWAY, ADA RAMP, AND REAR RETAINING WALL.
 11. UPON BUILDING COMPLETION, INSTALL ALL NEW UTILITIES LINES AS PER WASA REQUIREMENTS.
 12. BEGIN TEMPORARY AND PERMANENT STABILIZATION WHERE IT SEEMS NECESSARY.
 13. UPON COMPLETION OF ALL UTILITIES CONNECTION, PROCEED TO FINAL GRADING AND STABILIZATION.
 14. CONSTRUCT ALL UNDERGROUND PERIMETER DRAIN AND INSTALL STORMFILTER DEVICES.
 15. COMPLETE ALL VEGETATIVE MEASURES, LANDSCAPING, SEEDING, AND/OR SODDING.
 16. UPON COMPLETION OF PERMANENT STABILIZATION, OBTAIN APPROVAL FROM SEDIMENT CONTROL INSPECTOR OF THE DISTRICT OF COLUMBIA TO REMOVAL OF REMAINING SEDIMENT CONTROL DEVICES.

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF THE EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 157.0 CUBIC YARDS OF EXCAVATION, 0 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 5,515.0 SQ. FT.

DATE _____ SIGNATURE _____
PRINTED NAME: ANDREW HUSBANDS
REGISTRATION NO. _____

NOTE: THE QUANTITIES SHOWN ON THIS CERTIFICATION ARE FOR PERMITTING PURPOSES AND IS NOT INTENDED FOR USE IN ESTIMATING CONSTRUCTION QUANTITIES.

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JOSHUA TEMPLE CHURCH

4318 SHERIFF ROAD NE
WASHINGTON, D.C.

Project Number:
2010-4318

Revisions:

No.	Date

CONSTRUCTION DOCUMENTS

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Issue Date:
07.13.2011

Sheet Title:
EROSION & SEDIMENT CONTROL PLAN

Sheet Number: C-10

UTILITY DISCLAIMER

THE UNDERGROUND UTILITIES HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



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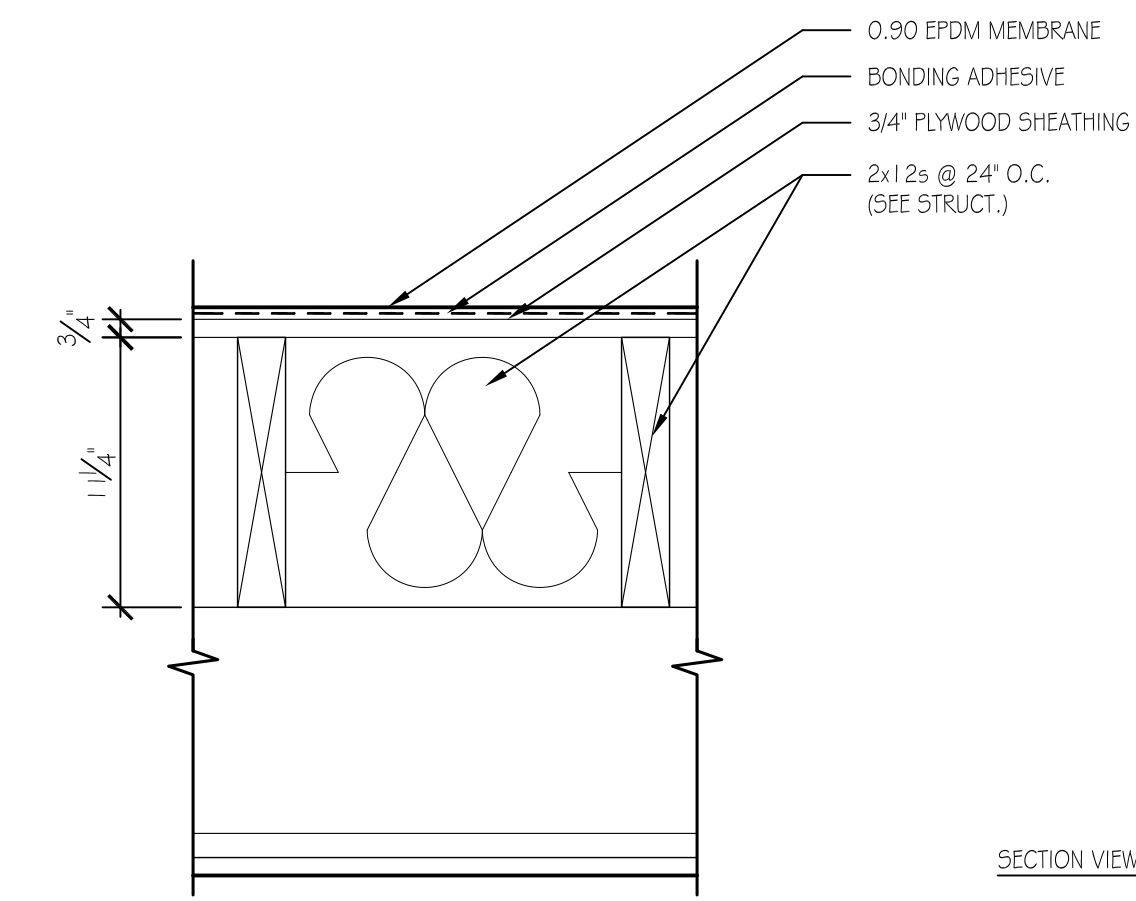
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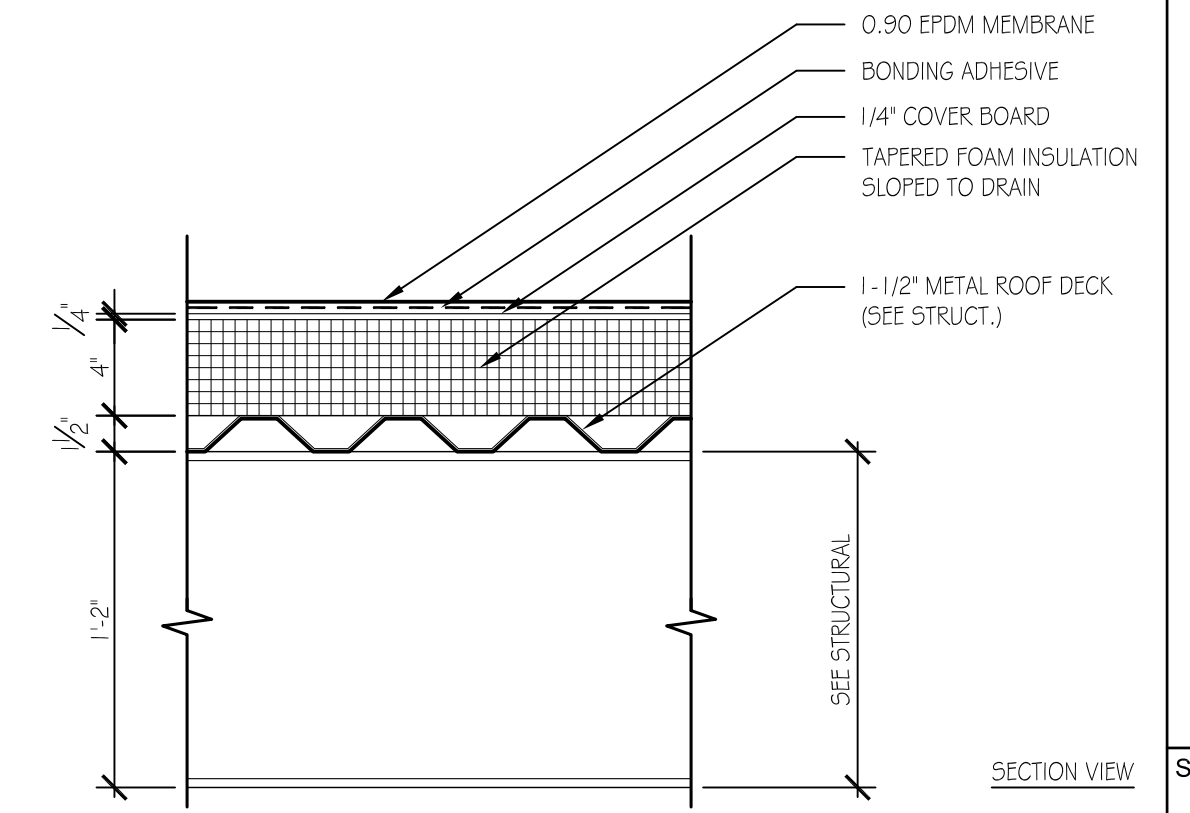
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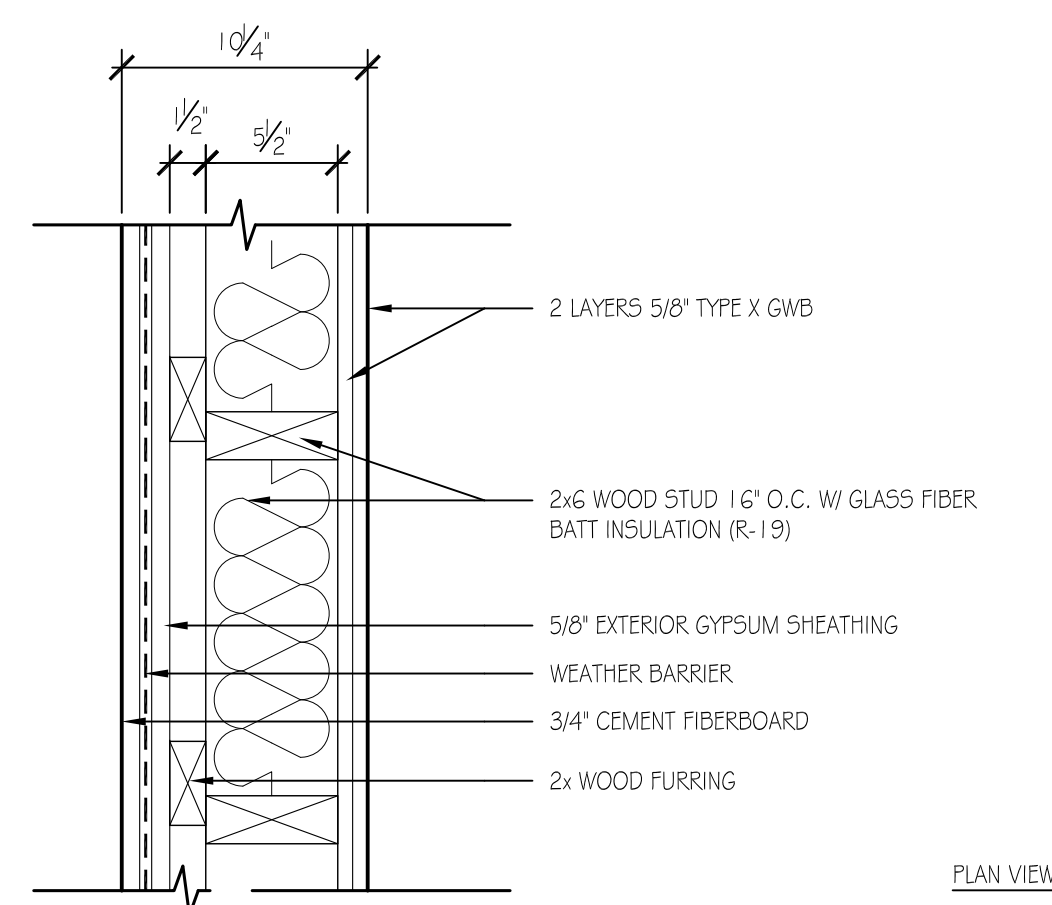
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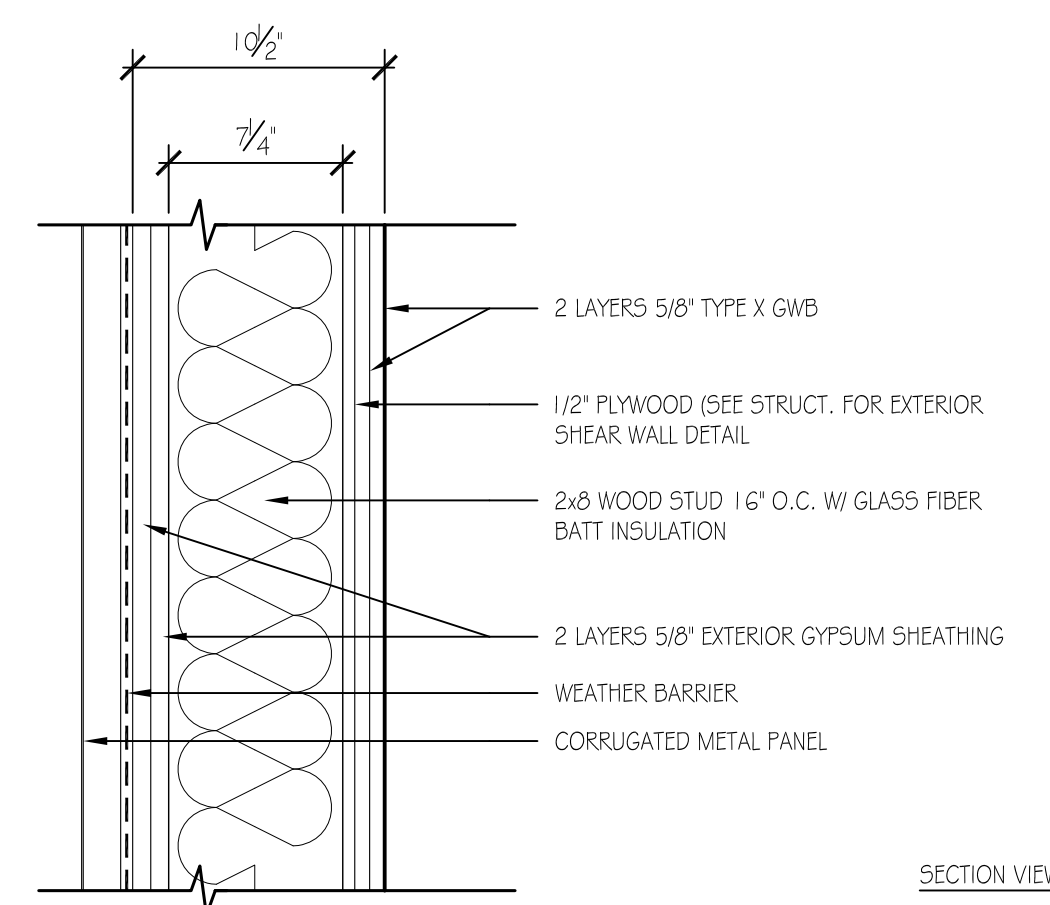
R02
FULLY ADHERED EPDM MEMBRANE ROOF ON PLYWOOD SHEATHING ON WOOD FRAMING
GENERAL NOTES:
R02A- USE DOUBLE 2x12s @ 24' O.C. UNDER MECHANICAL UNITS
SCALE: 1-1/2" = 1'-0"



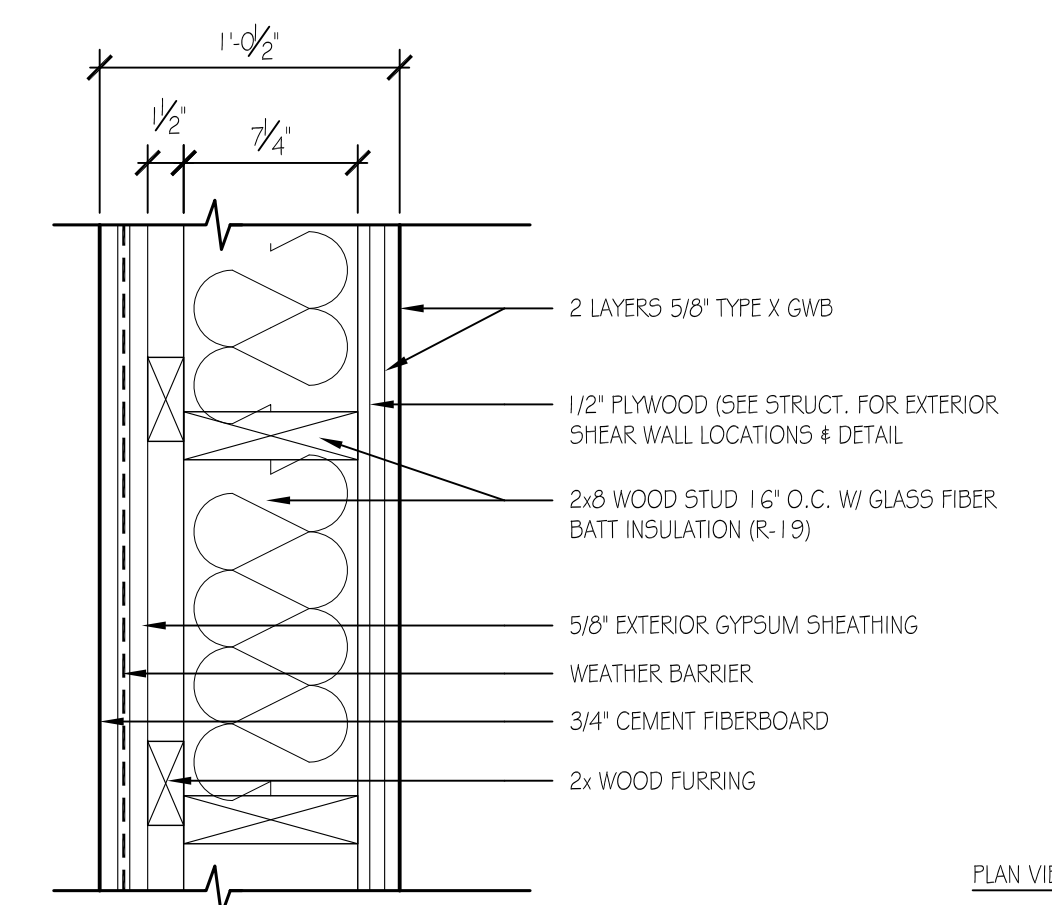
R01
FULLY ADHERED EPDM MEMBRANE ROOF ON SHEATHING ON METAL DECK
GENERAL NOTES:
TBD
SCALE: 1-1/2" = 1'-0"



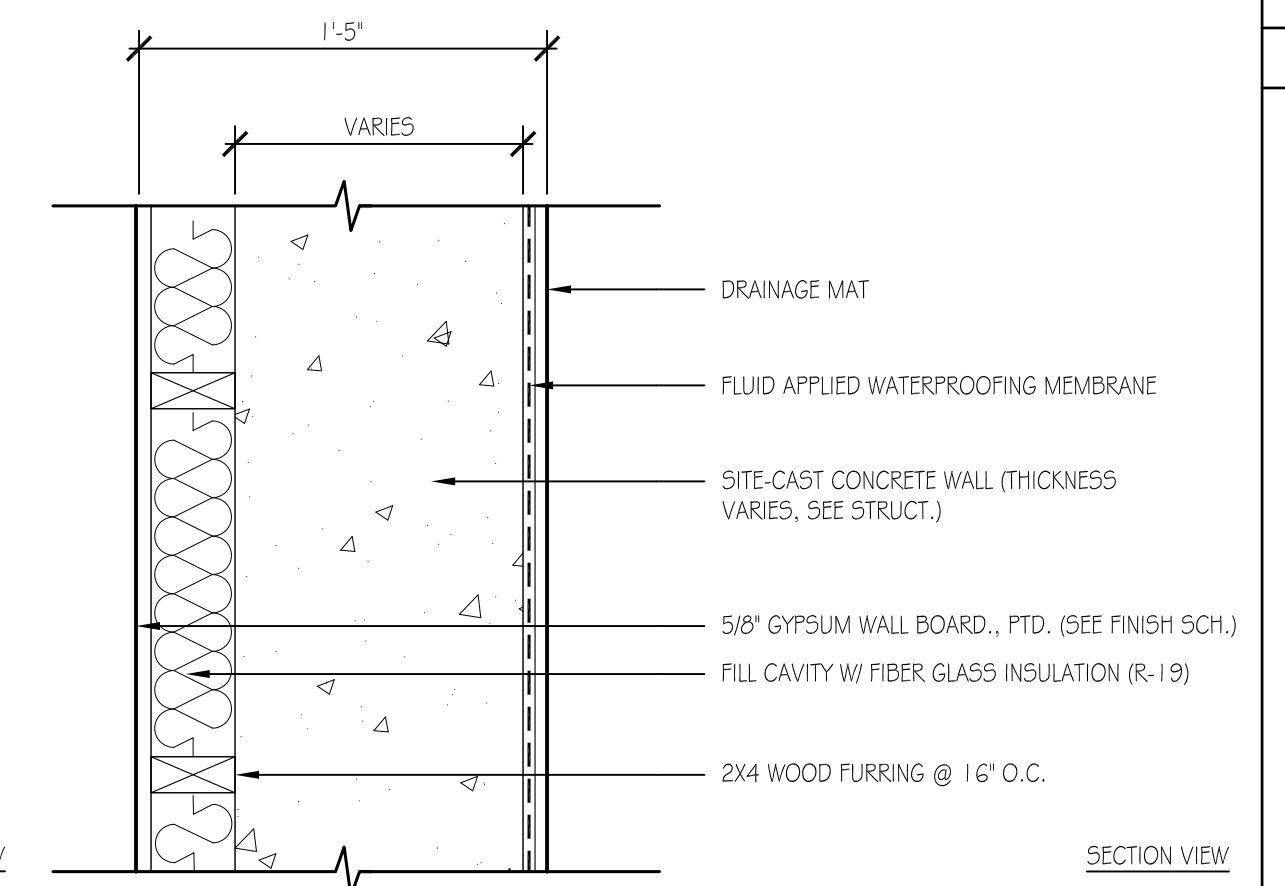
W04
WOOD STUD WALL W/ CEMENT FIBERBOARD
GENERAL NOTES:
PARTITION DESIGN NO.: U317
BEARING WALL RATING: 2 HOURS
SCALE: 1-1/2" = 1'-0"



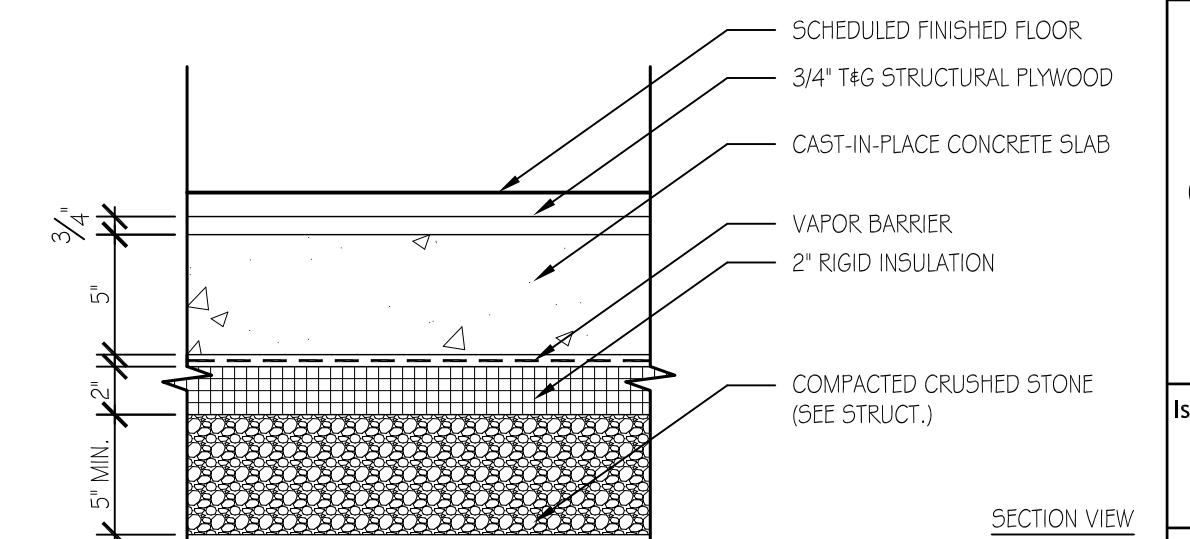
W03
WOOD STUD PLYWOOD SHEAR WALL W/ CORRUGATED METAL PANEL
GENERAL NOTES:
PARTITION DESIGN NO.: U317
BEARING WALL RATING: 2 HOURS
SCALE: 1-1/2" = 1'-0"



W02
WOOD STUD PLYWOOD SHEAR WALL W/ CEMENT FIBERBOARD
GENERAL NOTES:
PARTITION DESIGN NO.: U317
BEARING WALL RATING: 2 HOURS
W02A: USE 2x6 WOOD STUD
SCALE: 1-1/2" = 1'-0"



W01
CAST-IN-PLACE CONCRETE RETAINING/FOUNDATION WALL
GENERAL NOTES:
TBD
SCALE: 1-1/2" = 1'-0"



S01
SLAB ON GRADE
GENERAL NOTES:
TBD
SCALE: 1-1/2" = 1'-0"

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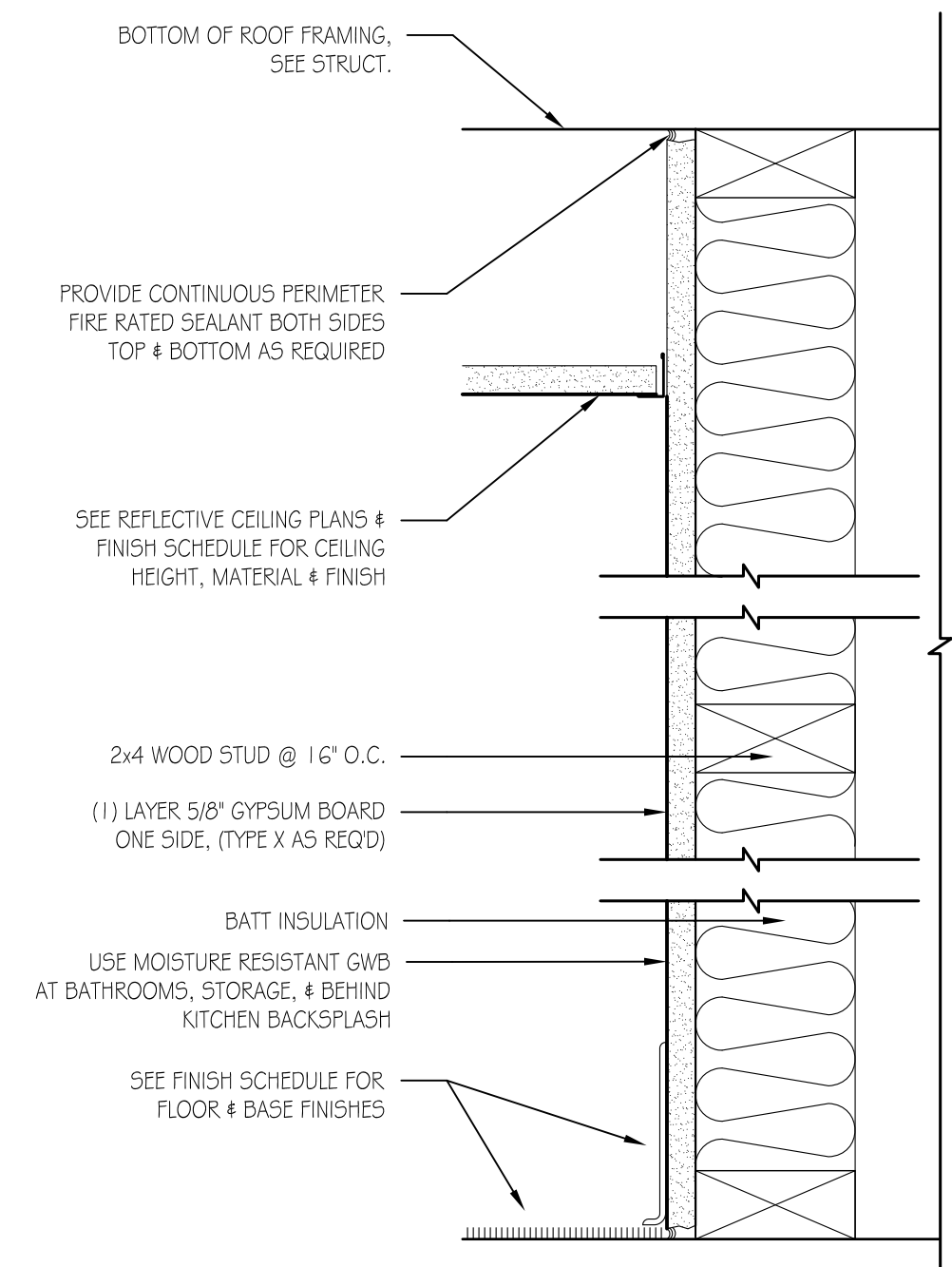
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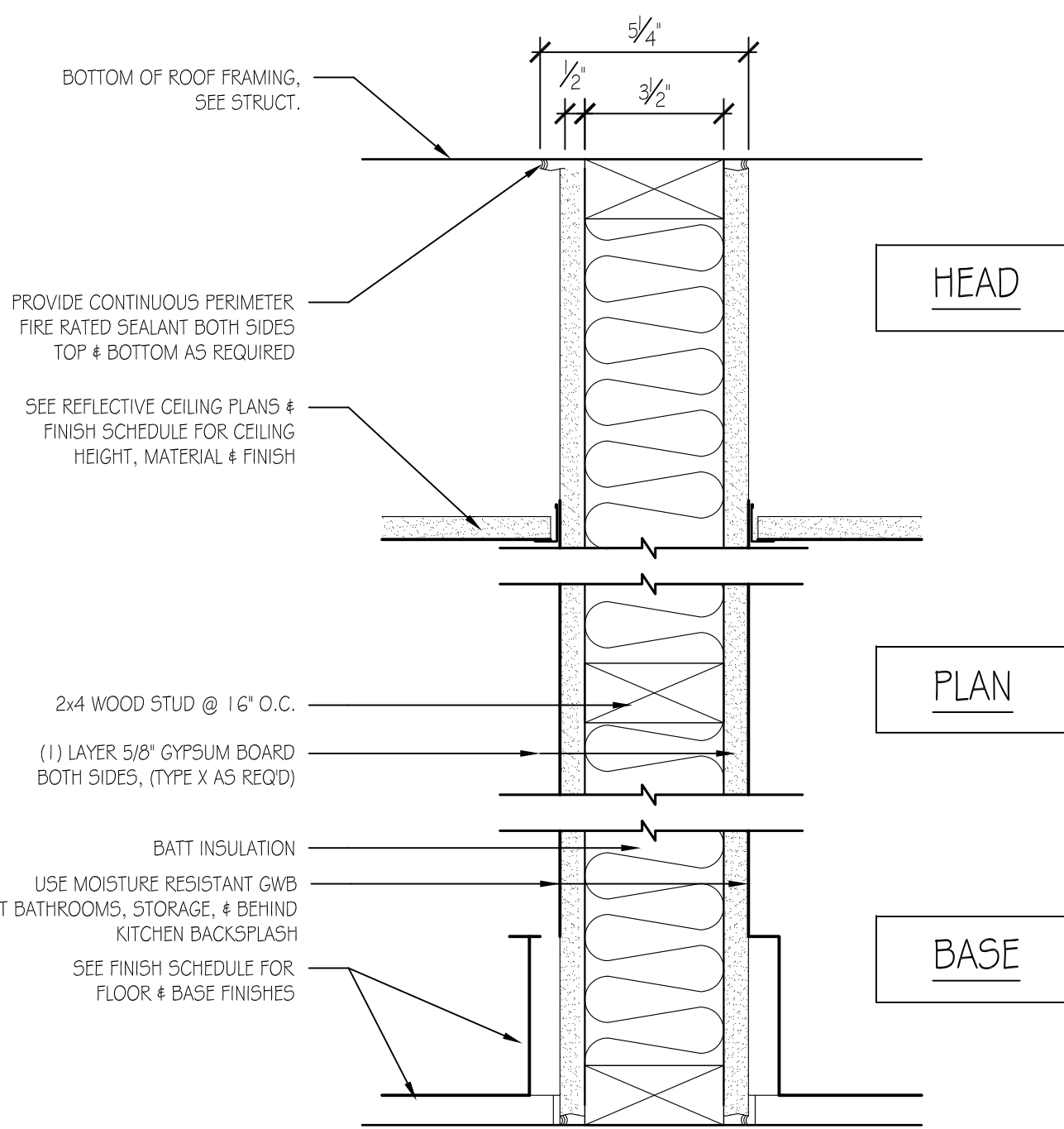
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INTERIOR
PARTITION TYPES

Sheet Number:

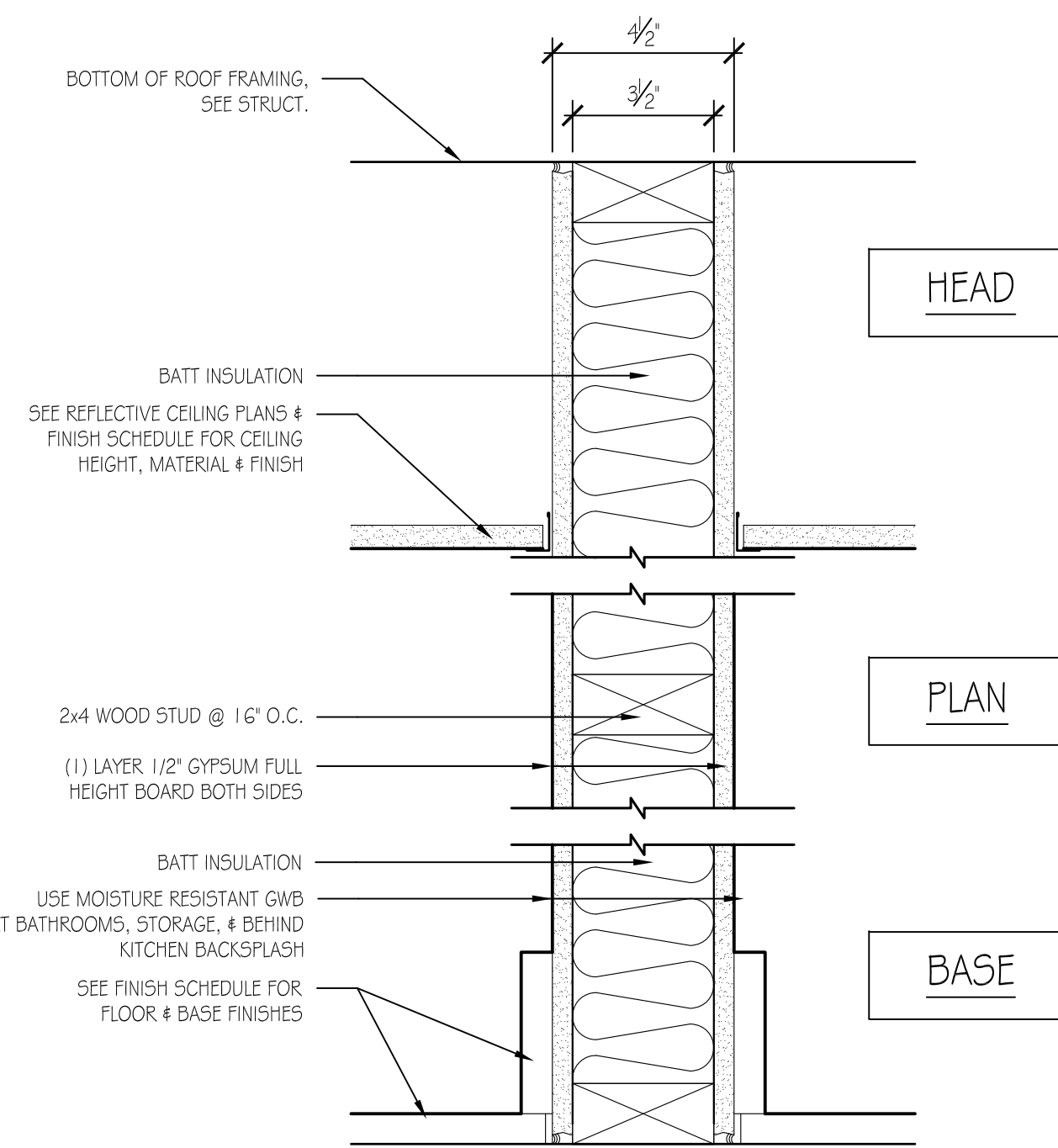
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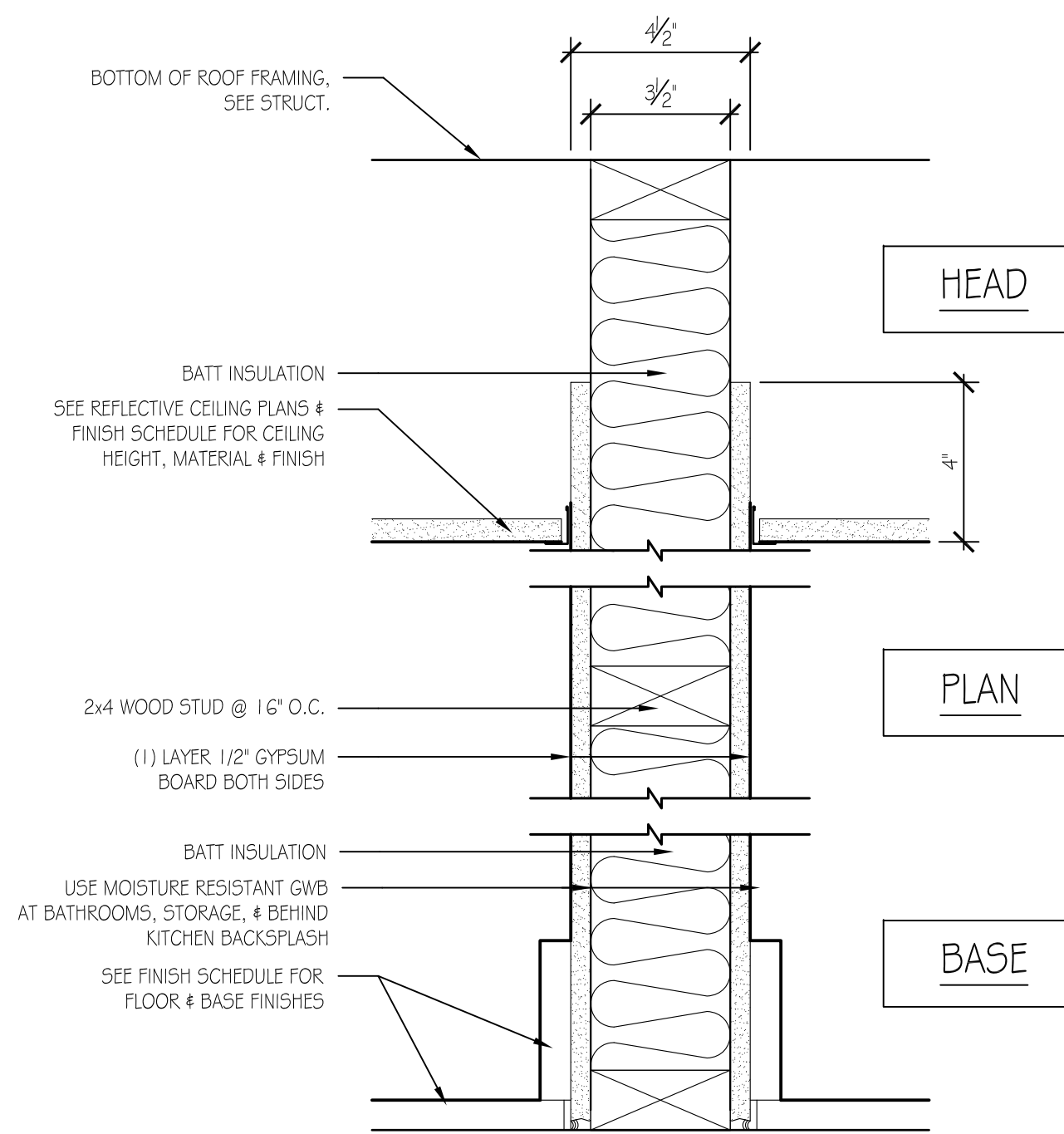
P5 PLUMBING / SHAFT WALL
TBD
DESIGN NO.: U420
WALL RATING: TBD
3"=1'-0"



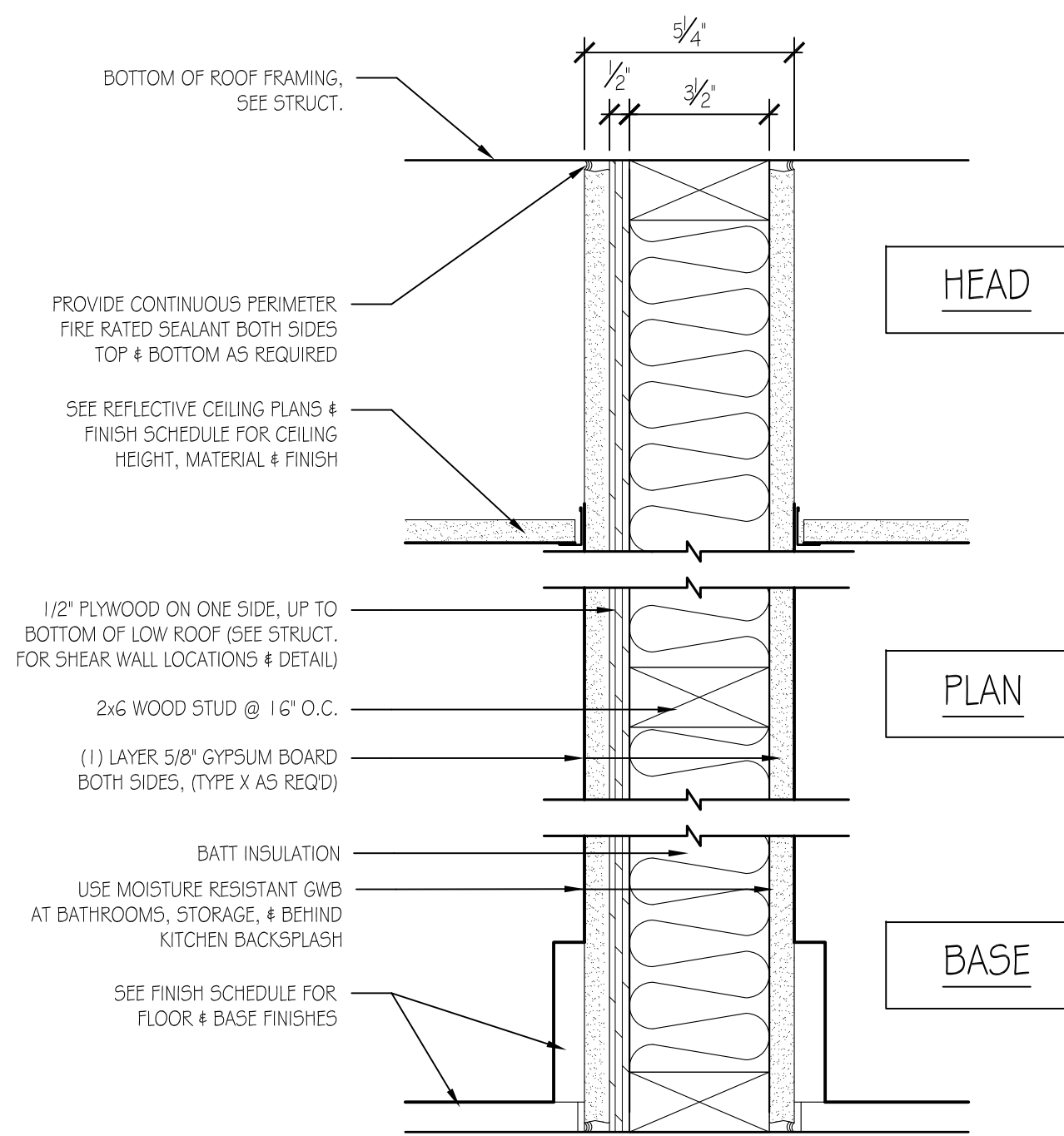
P4 PARTITION TYPE 4
2x4 WOOD STUD W/ GYPSUM FULL HEIGHT
3"=1'-0"



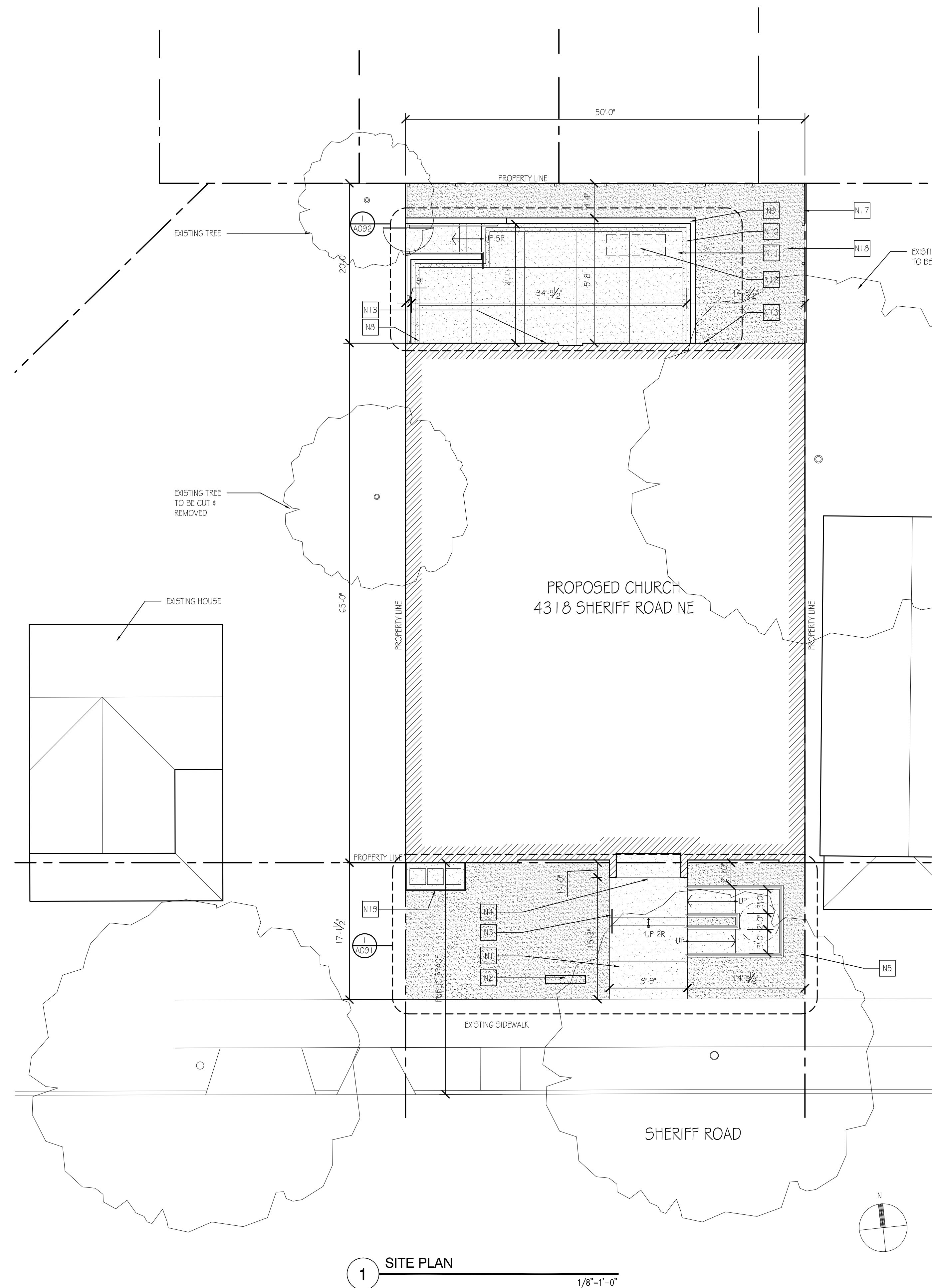
P3 PARTITION TYPE 3
GYPSUM FULL HEIGHT SOUND PARTITION
3"=1'-0"



P2 PARTITION TYPE 2
2x4 WOOD STUD W/ GYPSUM ABOVE CEILING
3"=1'-0"



P1 PARTITION TYPE 1
2x6 WOOD STUD W/ GYPSUM FULL HEIGHT
DESIGN NO.: U337
WALL RATING: 1 HOUR
3"=1'-0"



1 SITE PLAN
1/8"=1'-0"

NEW SITE PLAN KEY NOTES

- E1 EXISTING TREE
- E2 EXISTING TREE TO BE REMOVED
- E3 NOT USED
- E4 NOT USED

NEW SITE PLAN KEY NOTES

- N1 CONCRETE WALKWAY, HEIGHT TO ALIGN WITH TOP OF PUBLIC SIDEWALK
- N2 SIGNAGE
- N3 1-1/2" METAL HANDRAIL
- N4 MAIN ENTRY
- N5 CONCRETE ADA ACCESS RAMP WITH 1-1/2" DIAMETER PIPE RAILS
- N6 EPDM OR MODIFIED BITUMINOUS ROOF LOW FLAT ROOF
- N7 HIGH FLAT ROOF
- N8 METAL DOWNSPOUT LOCATION
- N9 1" CMU RETAINING WALL WITH PRECAST 3" CONCRETE CAP
- N10 4" TRENCH DRAIN AROUND PATIO PERIMETER DRAIN TO CATCH BASIN, SEE CIVIL FOR DETAILS
- N11 CONCRETE PATIO
- N12 SEE CIVIL FOR DETAILS
- N13 EXTERIOR ACCESS
- N14 5'-0" WOOD MECHANICAL SCREEN
- N15 MECHANICAL ROOF TOP UNIT, SEE MEP FOR DETAILS
- N16 MAKE UP AIR UNIT, SEE MEP FOR DETAILS
- N17 6'-0" WOOD OR CHAIN LINK FENCE
- N18 TOPSOIL AND SEED
- N19 PAINTED WOOD TRASH ENCLOSURE WITH OPERABLE GATE

SITE MATERIALS LEGEND

	LIGHT DUTY STANDARD CONCRETE PAVING
	SODGRASS FILL
	EXPANSION JOINT
	SAW-CUT CONTROL JOINT
	LIMITS OF WORK
	TRASH RECEPTACLE
	RECYCLING RECEPTACLE



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SITE PLAN

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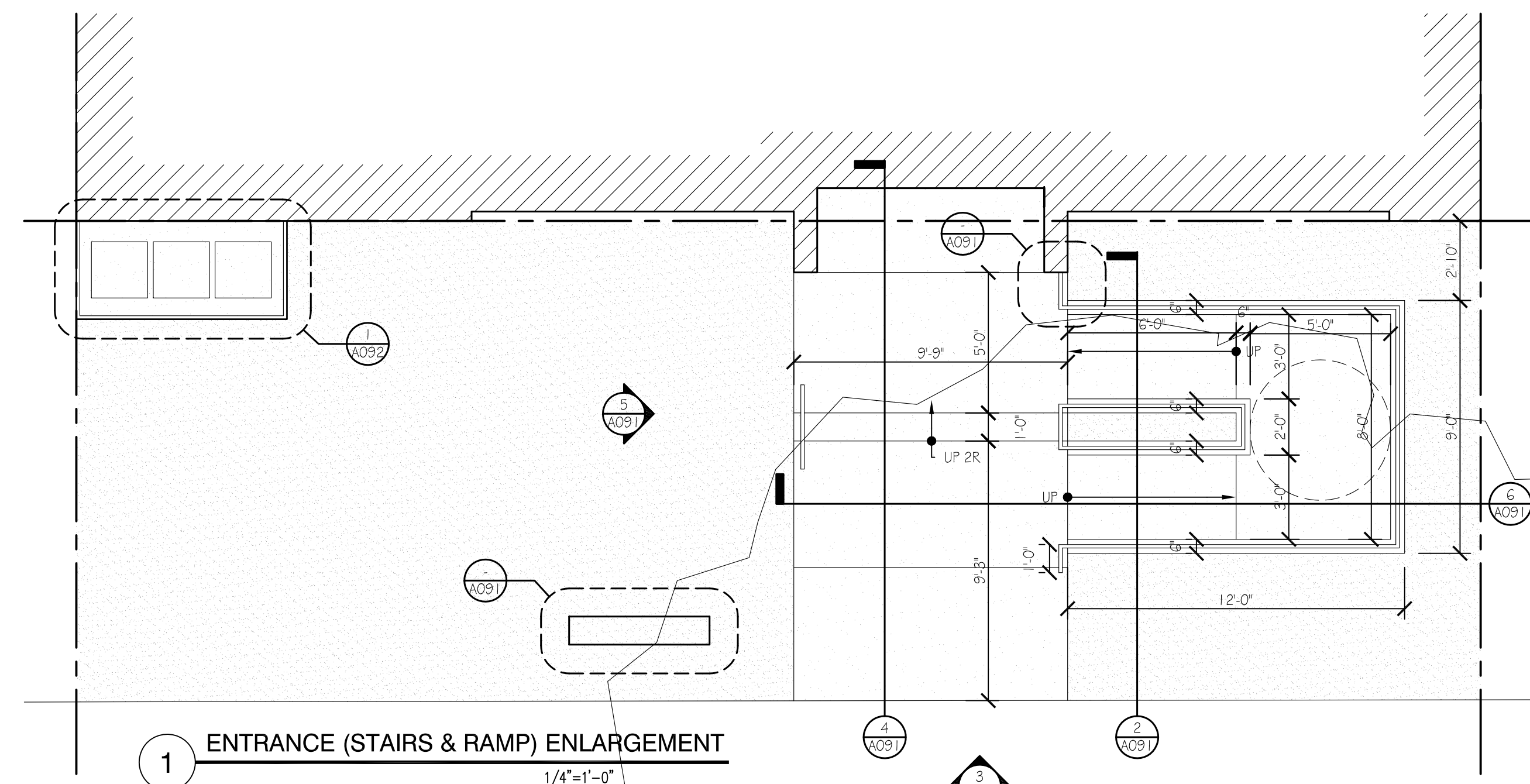
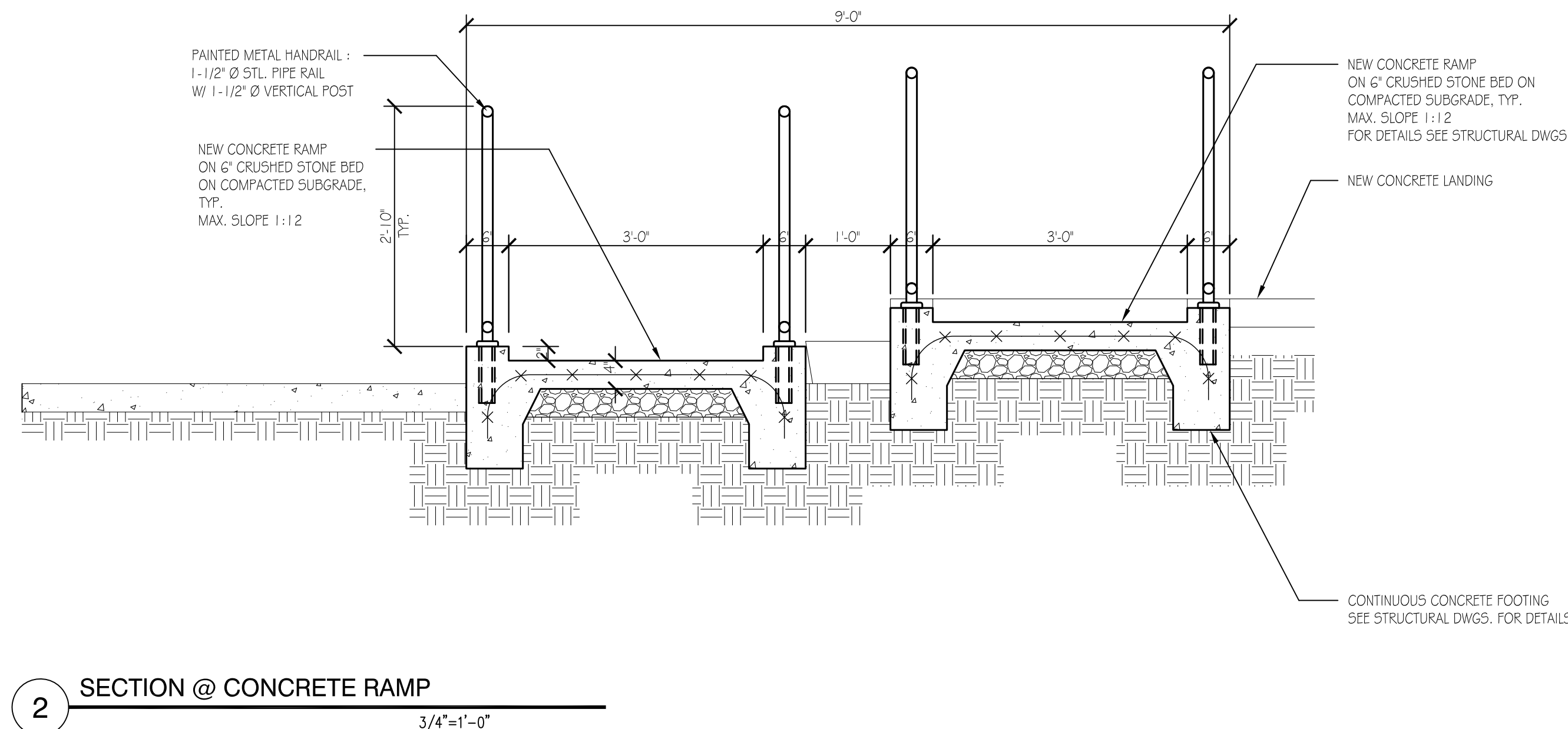
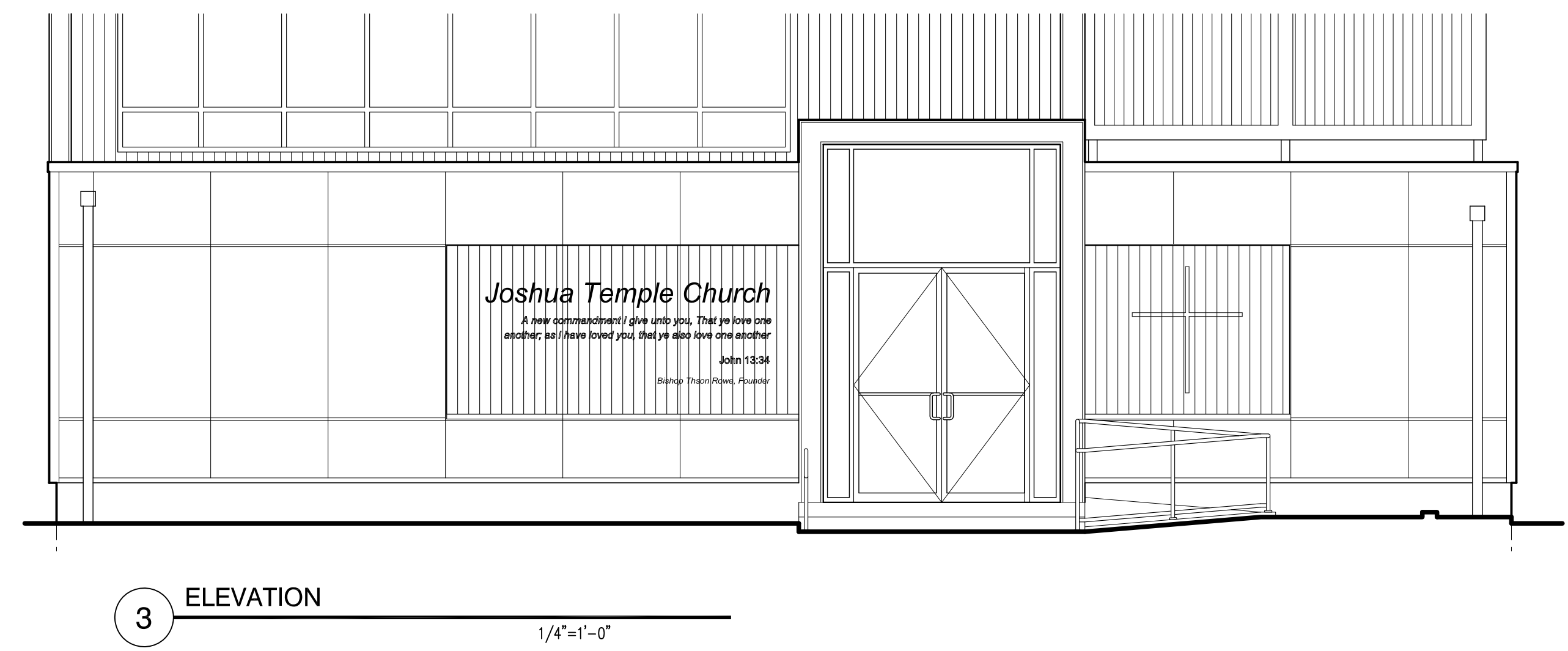
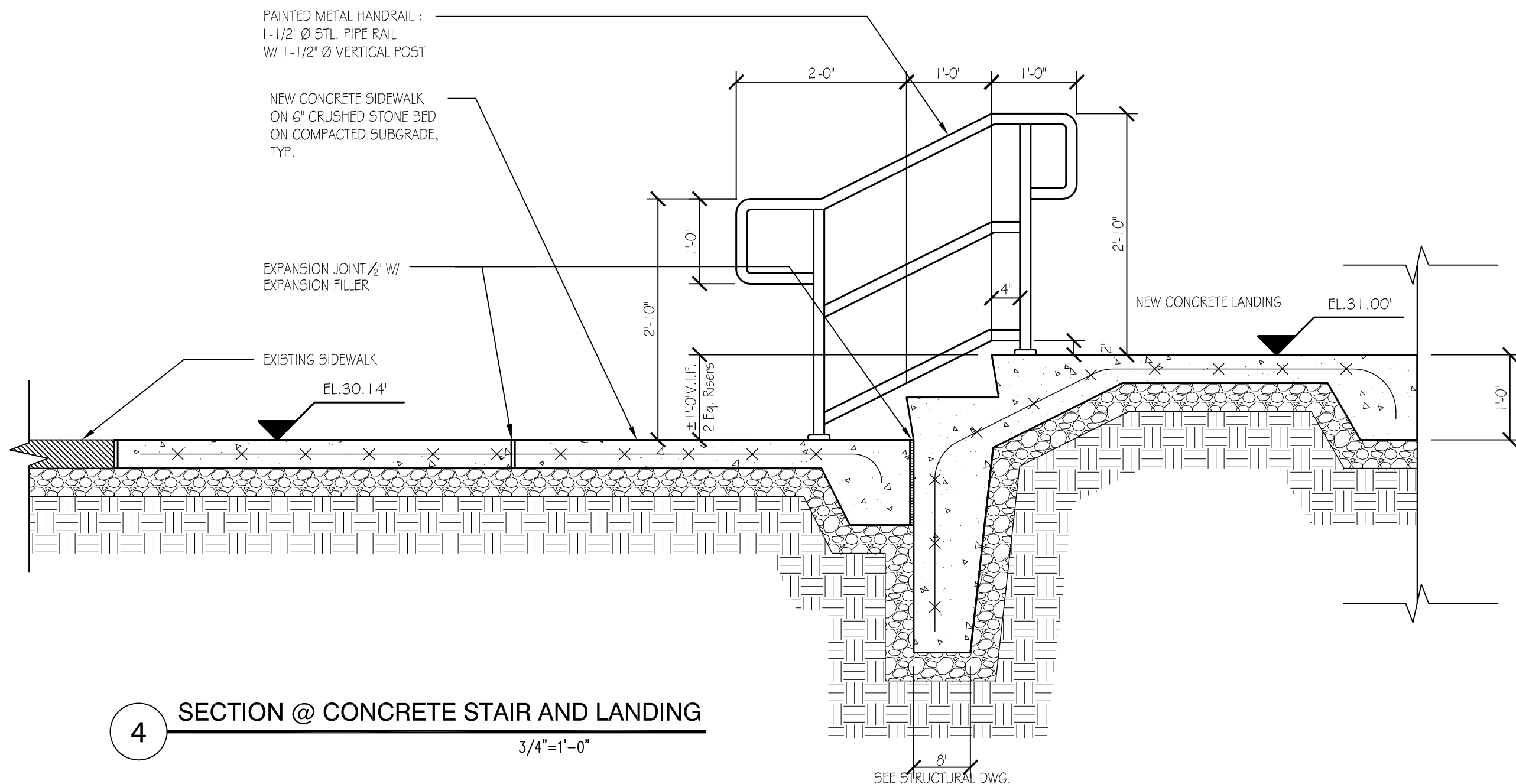
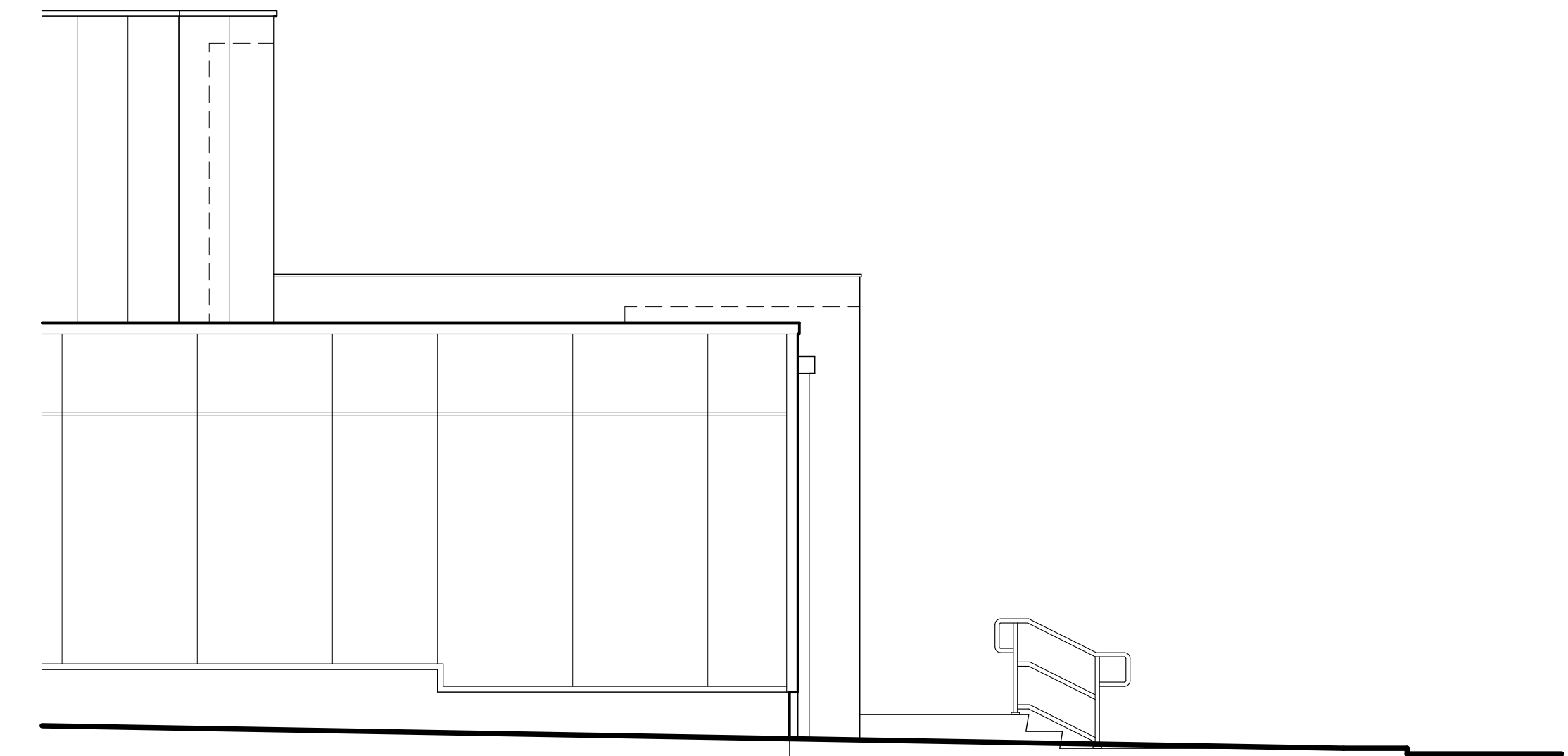
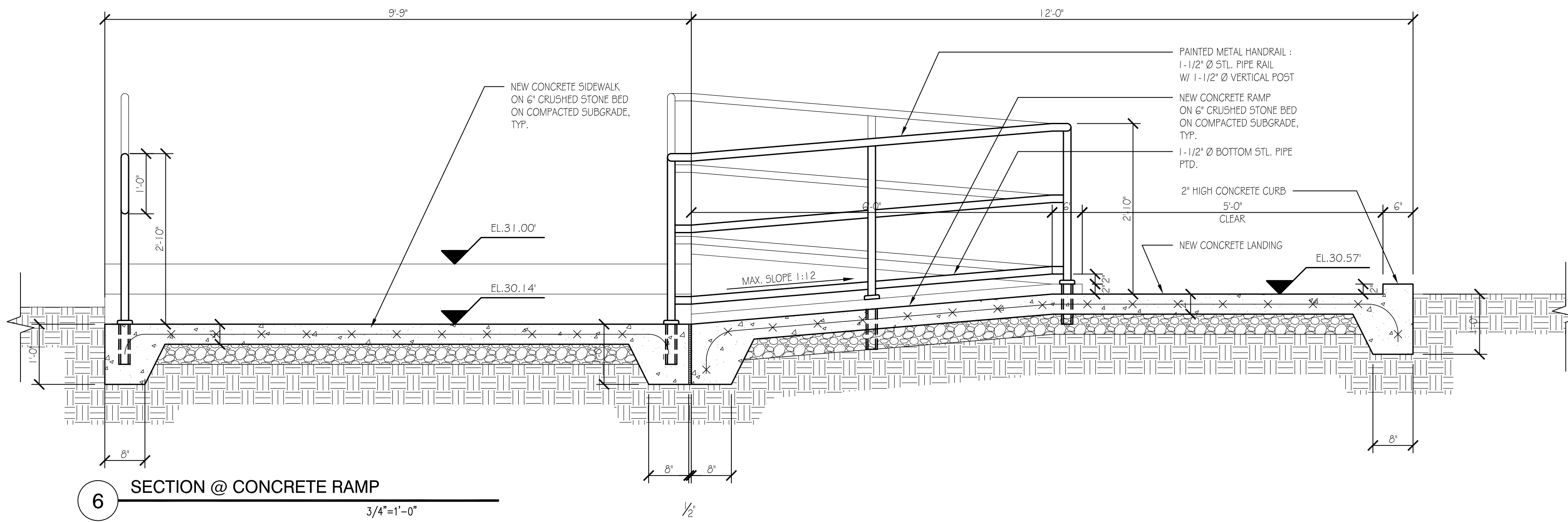
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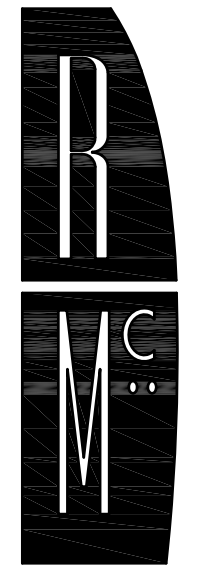
Sheet Title:
SITE PLAN DETAILS

Sheet Number:

A091



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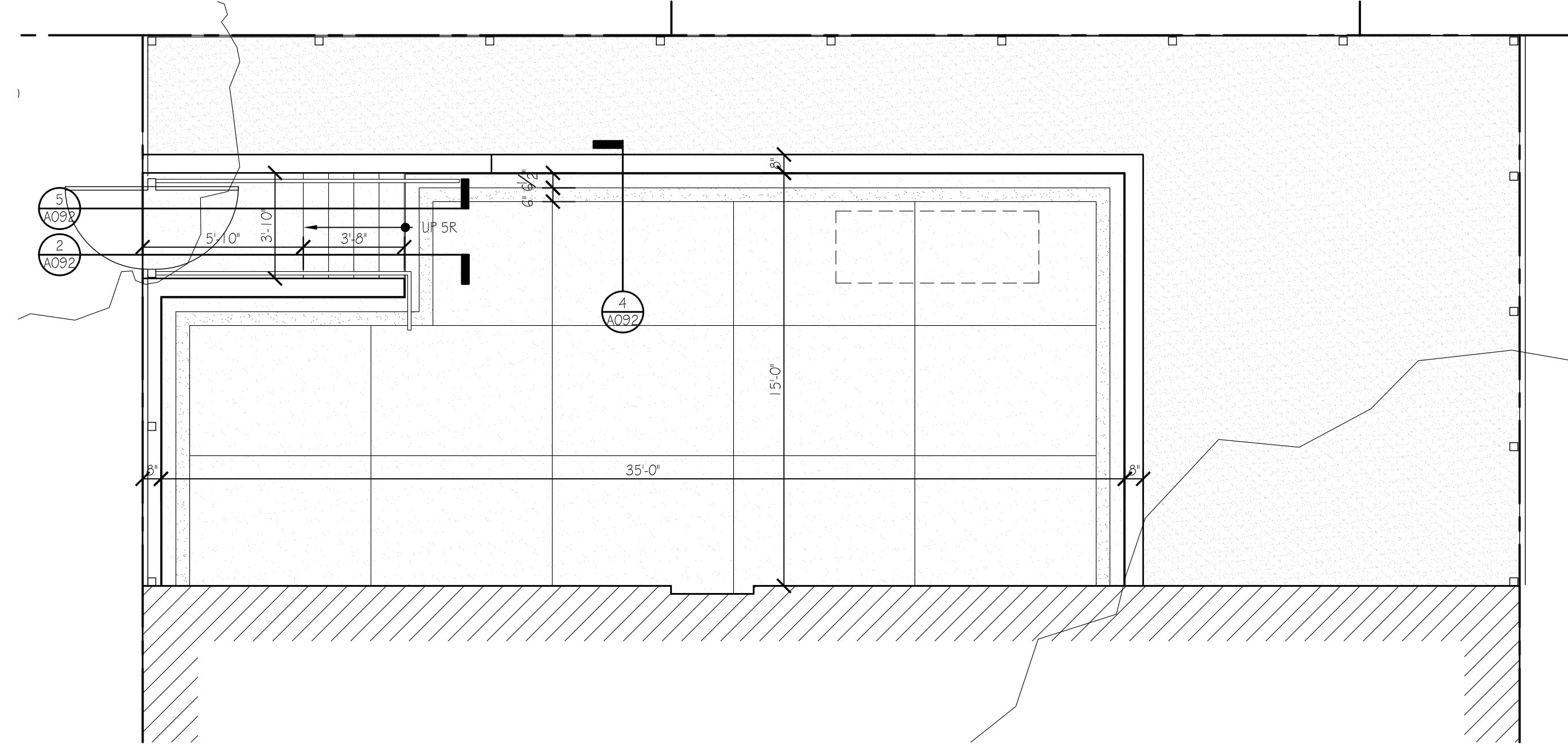
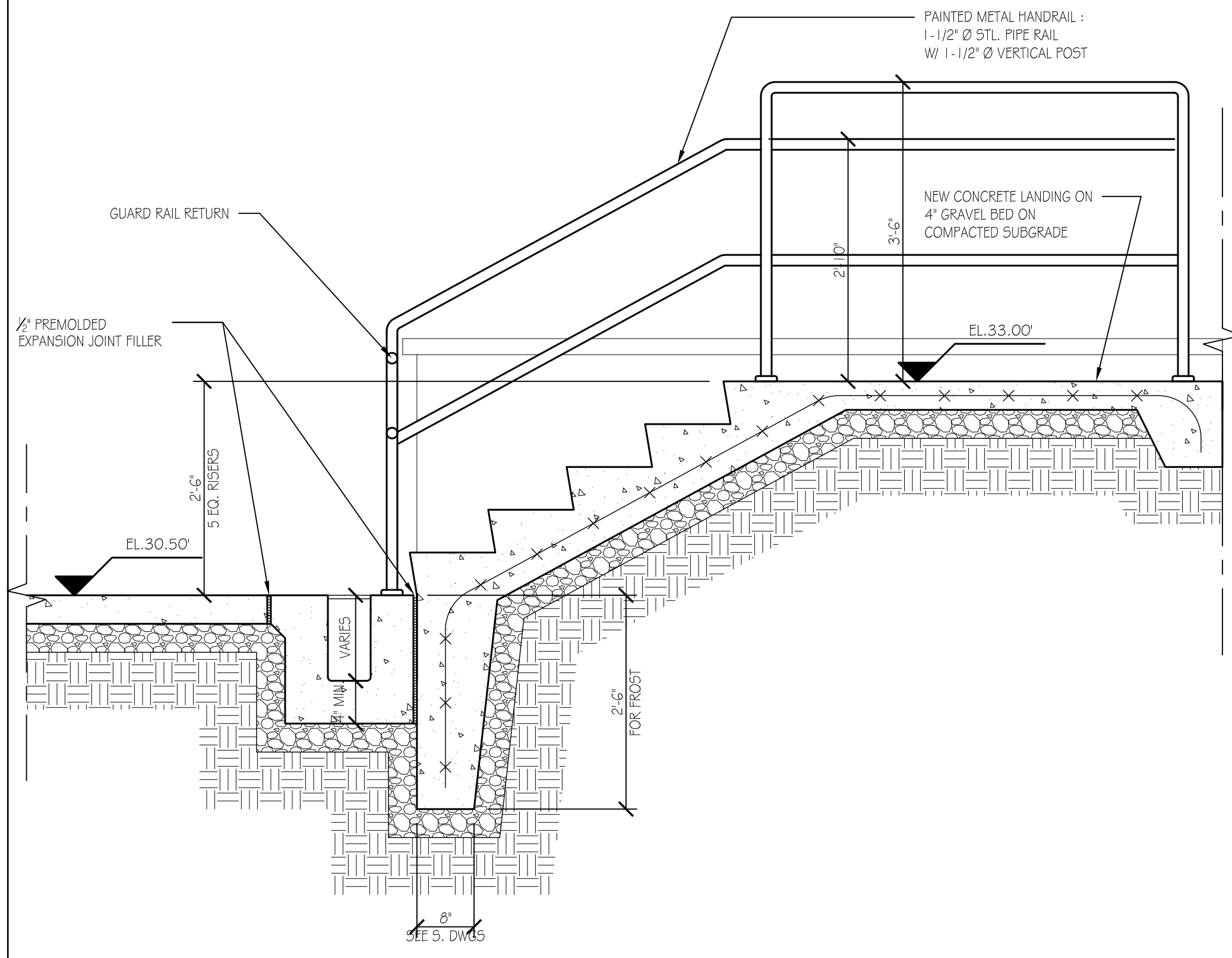
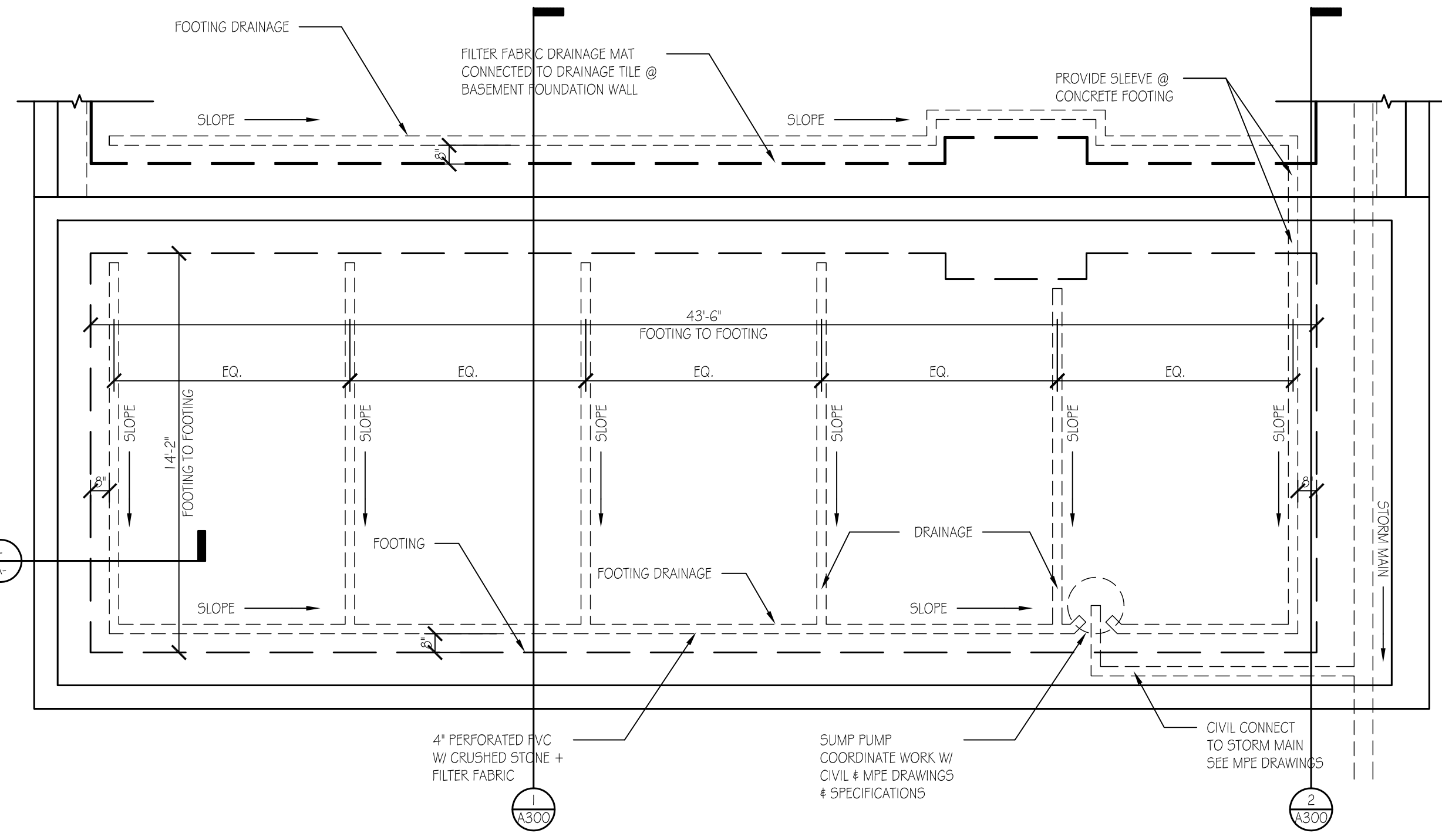
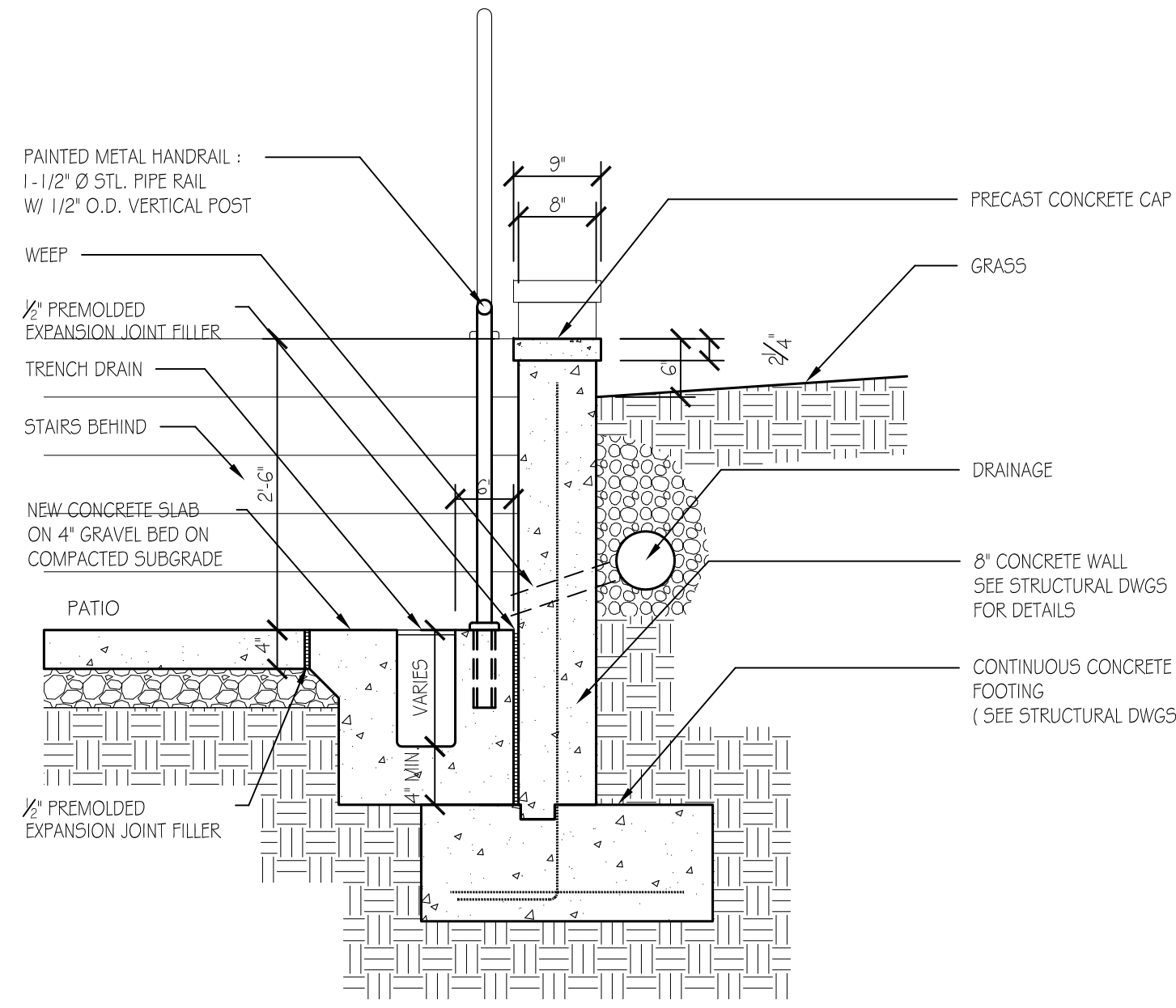
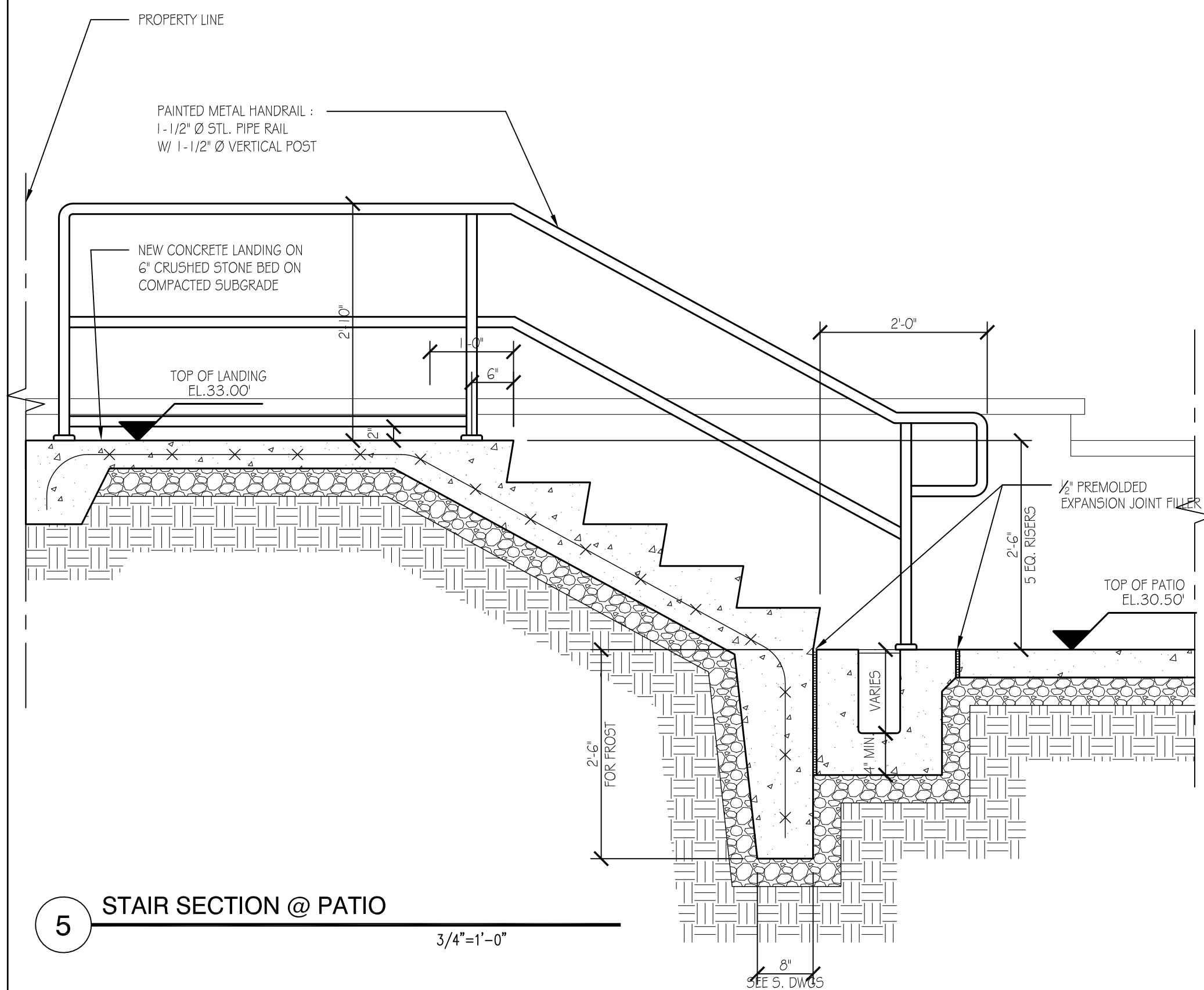
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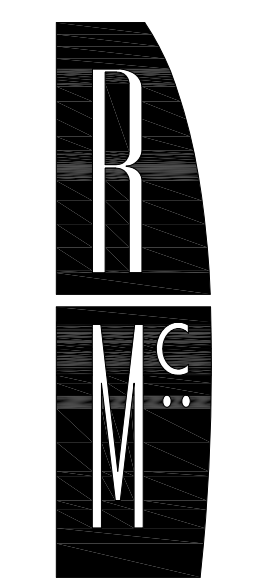
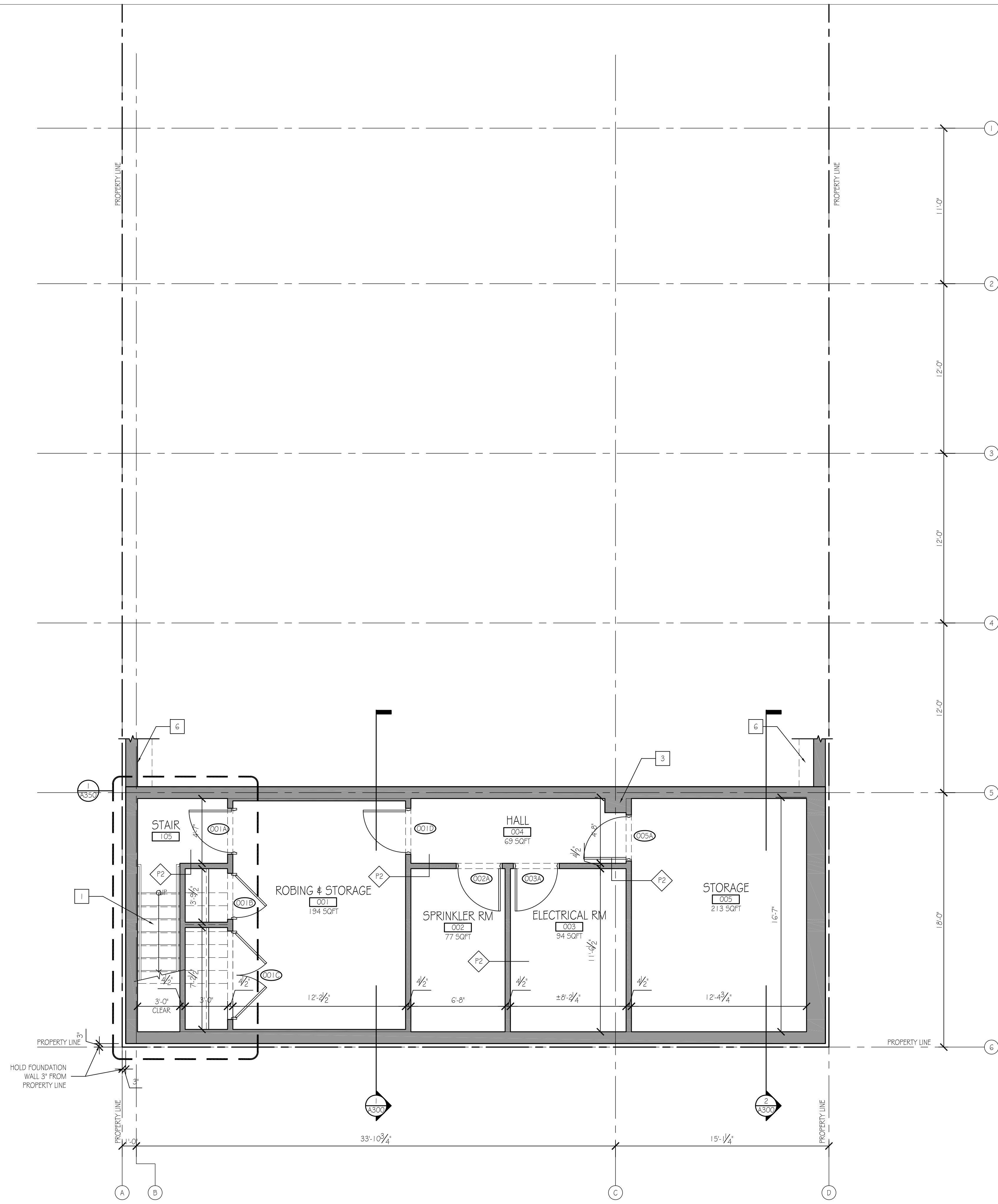
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SITE PLAN DETAILS

Sheet Number:

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Sheet Title:
CELLAR FLOOR PLAN

Sheet Number:

A101



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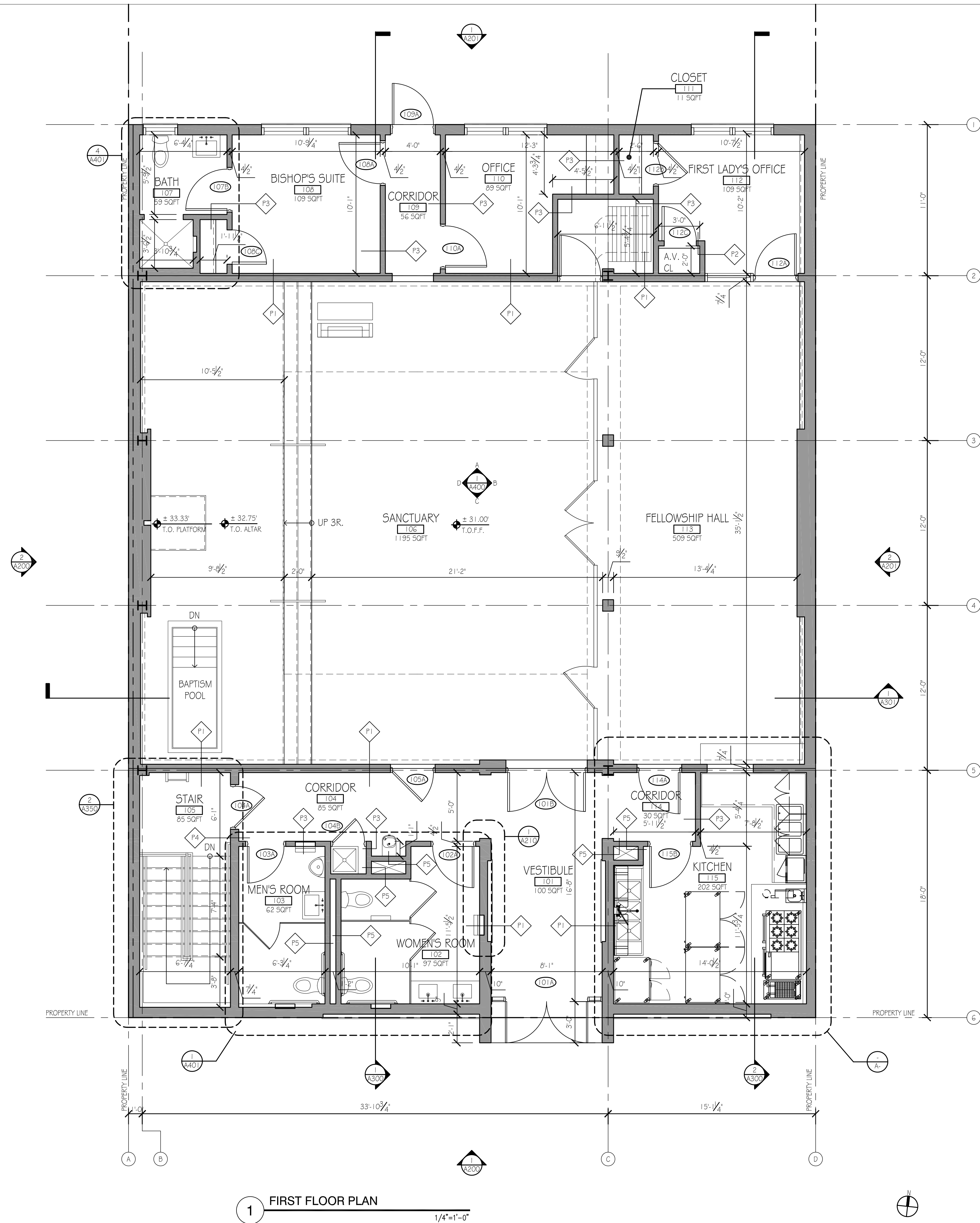
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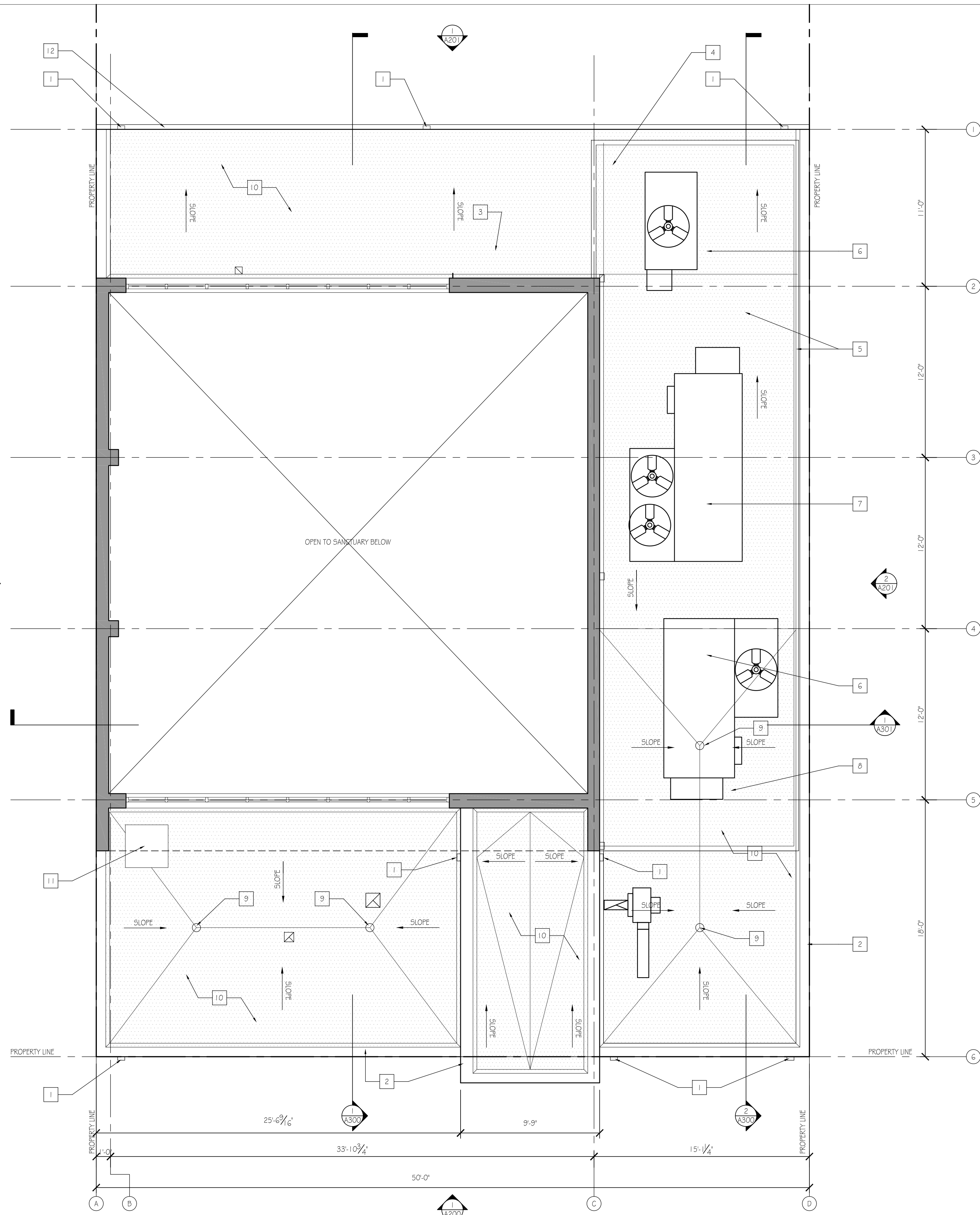
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FIRST FLOOR PLAN

Sheet Number:

A102



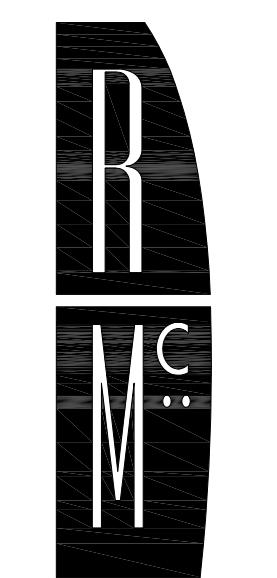
1 FIRST FLOOR PLAN
1/4"=1'-0"



NEW ROOF PLAN KEY NOTES

- 1 DOWNSPOUT
- 2 8' PARAPET WITH METAL CAP
- 3 6x6 EXHAUST
- 4 KITCHEN EXHAUST
- 5 5'-0" MECHANICAL SCREEN
- 6 NEW RTU WITH 18" CURB
- 7 NEW RTU WITH 24" CURB
- 8 MAKE UP AIR UNIT
- 9 ROOF DRAIN
- 10 EPDM ROOF
- 11 ROOF ACCESS HATCH
- 12 GUTTER

1 LOWER ROOF PLAN
1/4"=1'-0"



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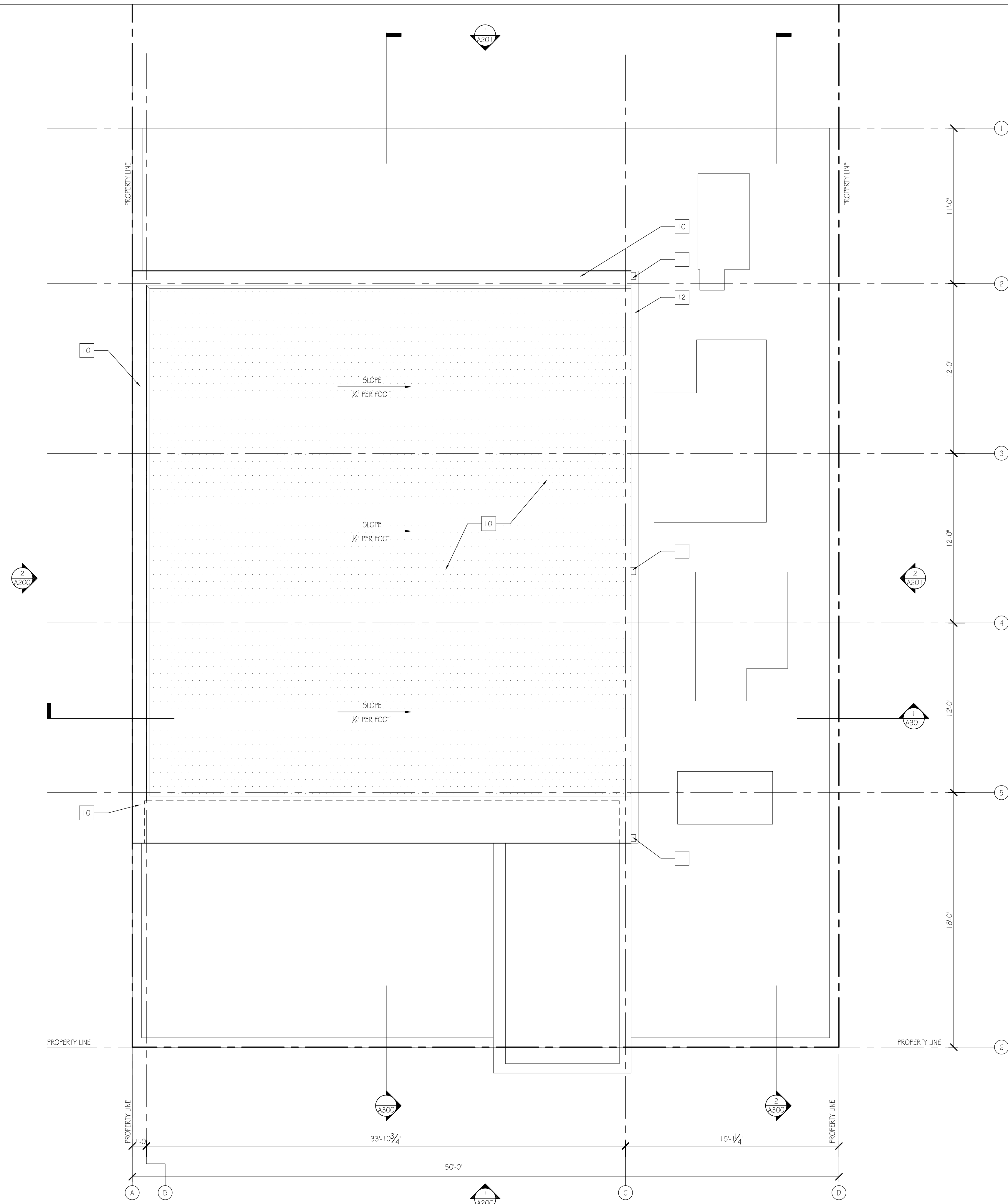
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Sheet Title:
LOWER ROOF PLAN

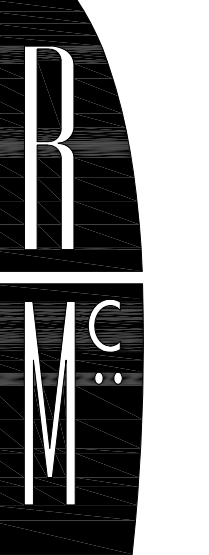
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A103



NEW ROOF PLAN KEY NOTES

- 1 DOWNSPOUT
- 2 8" PARAPET WITH METAL CAP
- 3 6x6 EXHAUST
- 4 KITCHEN EXHAUST
- 5 5'-0" MECHANICAL SCREEN
- 6 NEW RTU WITH 18" CURB
- 7 NEW RTU WITH 24" CURB
- 8 MAKE UP AIR UNIT
- 9 ROOF DRAIN
- 10 EPDM ROOF
- 11 ROOF ACCESS HATCH
- 12 GUTTER



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Sheet Title:
 UPPER ROOF PLAN

Sheet Number:

A104

1 UPPER ROOF PLAN
 1/4"=1'-0"



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JOSHUA TEMPLE CHURCH
4318 SHERIFF ROAD NE
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Sheet Title:
REFLECTED CEILING
PLANS

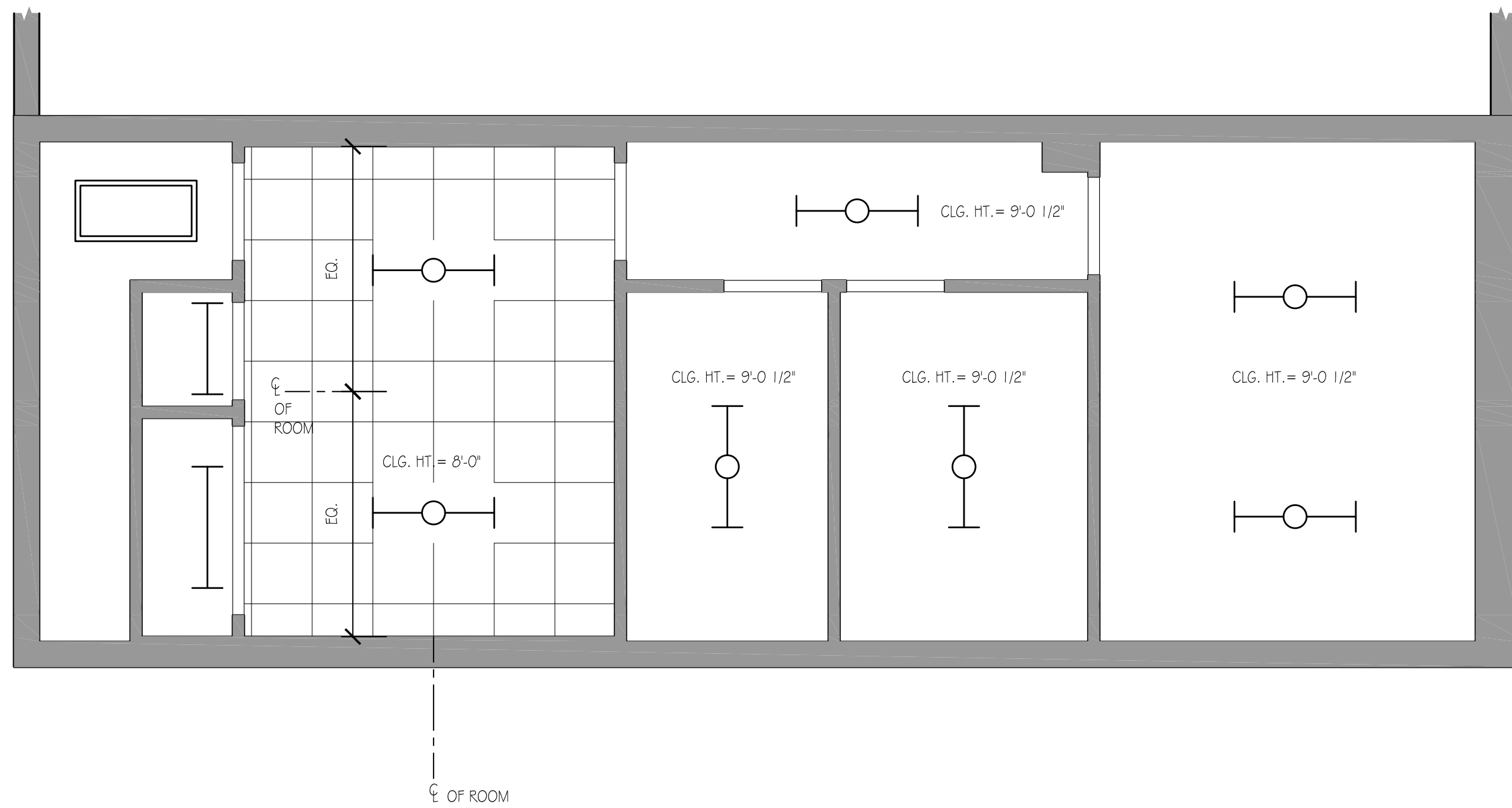
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A120

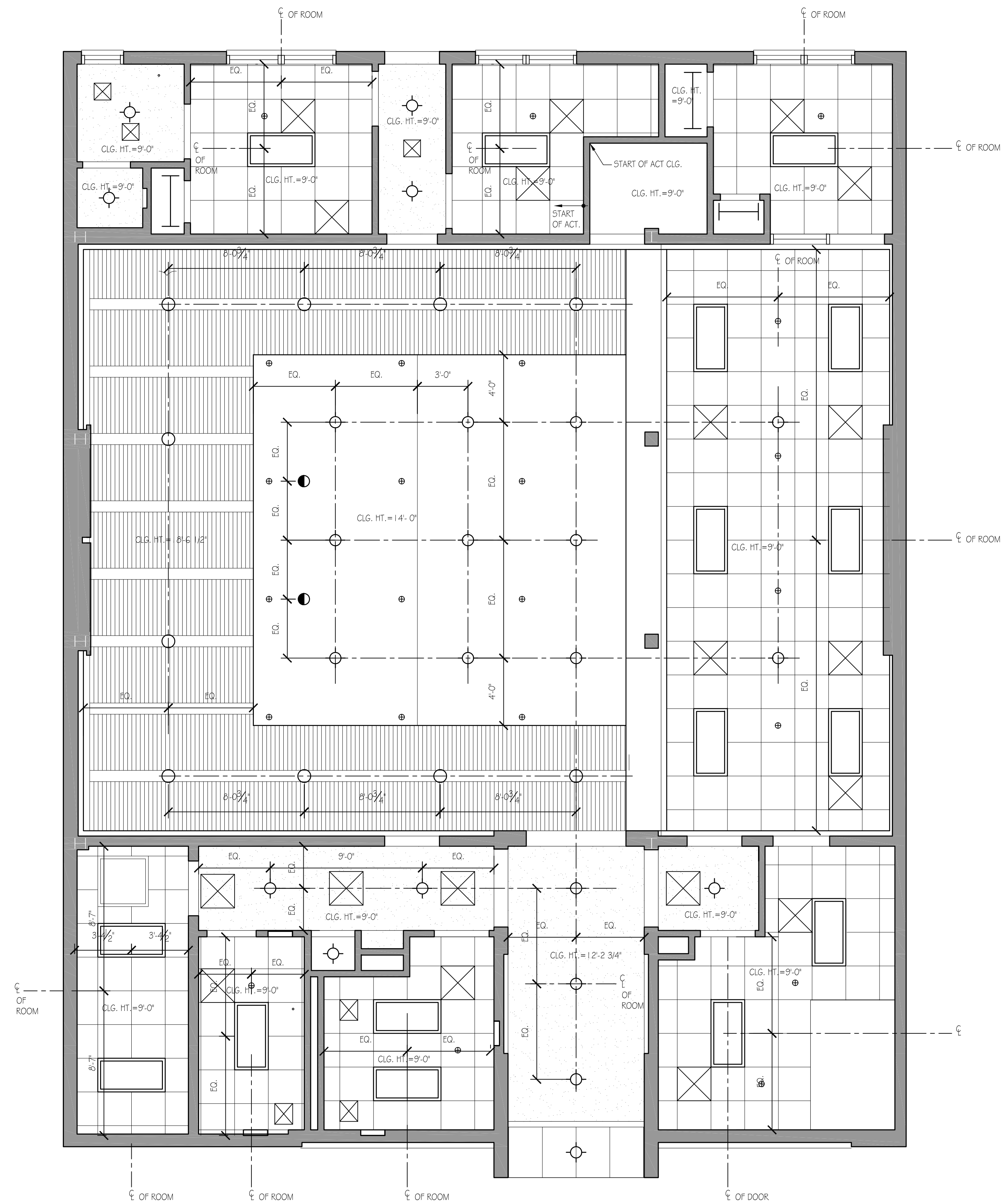
NOT FOR CONSTRUCTION

REFLECTED CEILING PLAN KEY	LIGHT FIXTURE KEY
2X2' ACOUSTICAL PANEL CEILING	2X4 FLUORESCENT
PAINTED GYPSUM BOARD CEILING	PENDANT LIGHT
PAINTED EXPOSED STRUCTURE/PLATED FLOOR DECK	RECESSED LIGHT
PREFINISHED METAL PANEL CEILING	4' LONG FLUORESCENT FIXTURE
UNFINISHED	2' CLOSET FLUORESCENT FIXTURE
AIR DIFFUSER / AIR RETURN	
EXHAUST	
SPRINKLER HEAD (@ PROPOSED LOCATION)	

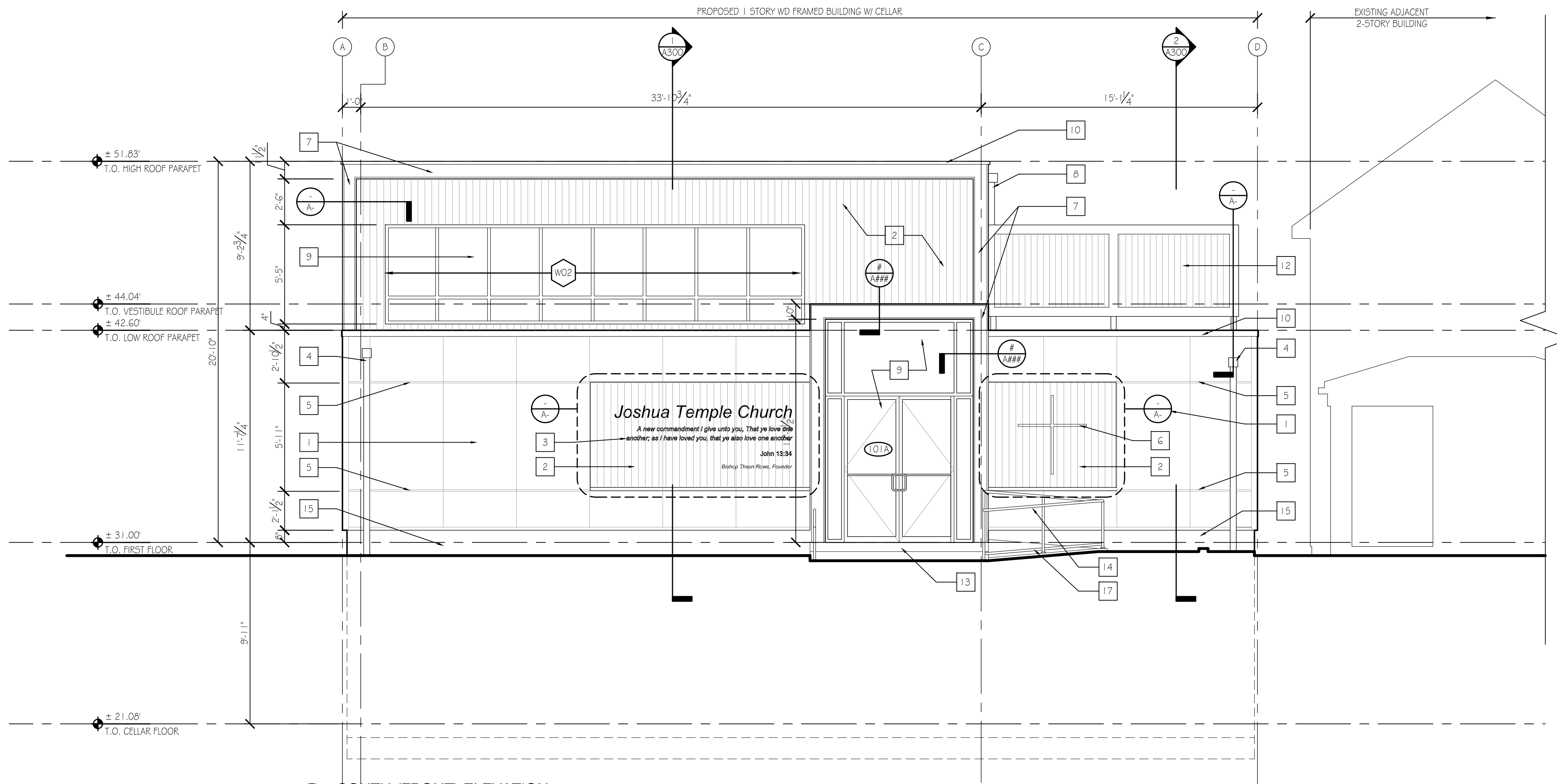
NOTE: PAINT ALL EXPOSED STRUCTURE TO BE COLOR XX



2 CELLAR REFLECTED CEILING PLAN
1/4"=1'-0"

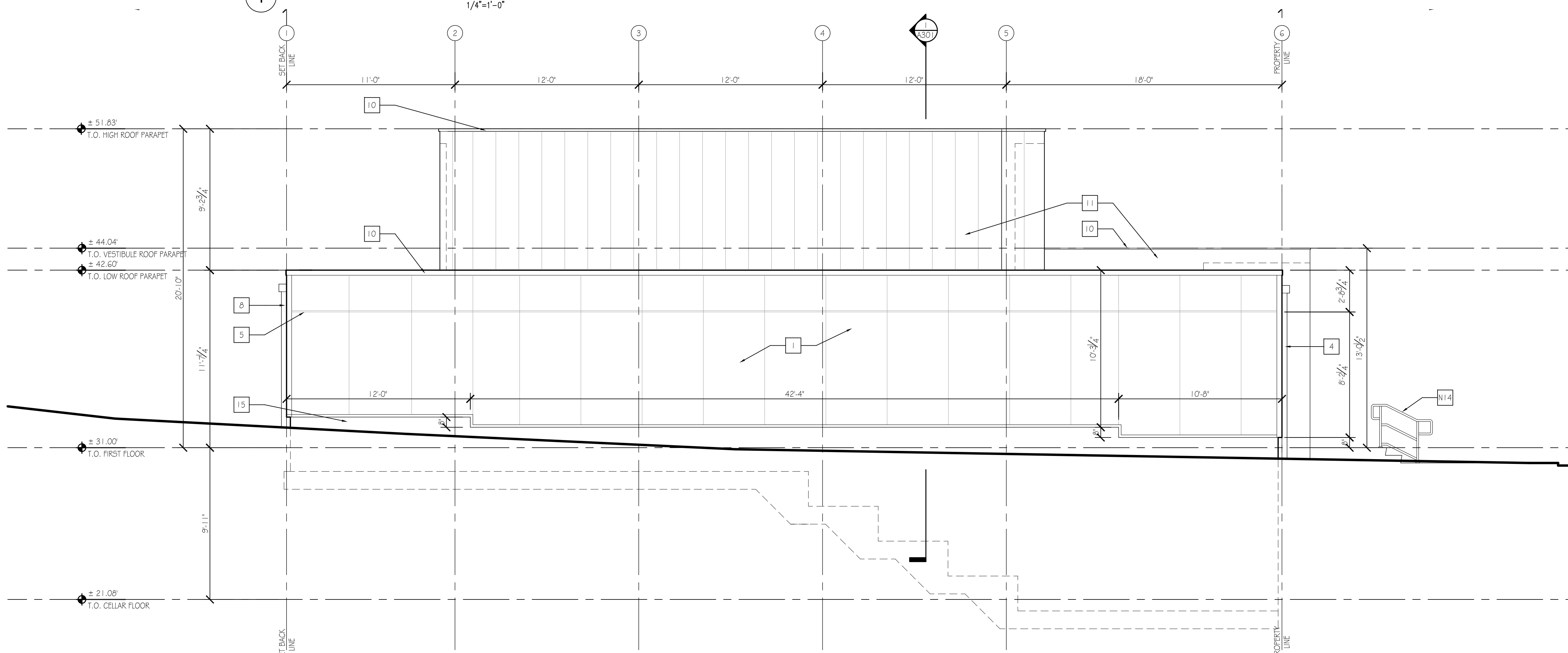


1 FIRST FLOOR REFLECTED CEILING PLAN
1/4"=1'-0"



1 SOUTH (FRONT) ELEVATION

1/4"=1'-0"



2 WEST ELEVATION

1/4"=1'-0"

NEW EXTERIOR ELEVATION KEY NOTES

- 1 PAINTED FIBER CEMENT PANEL (2-HR FIRE RATED AT PARTY LINE)
- 2 STAINED WOOD PANEL TYPE AND COLOR TO TBD
- 3 STAINLESS STEEL STANDOFF LETTERS
- 4 METAL SCUPPER AND DOWNSPOUT
- 5 1/2" REVEAL
- 6 METAL CROSS, FINISH TO MATCH STANDOFFS
- 7 METAL PANEL AT FASCIA
- 8 METAL GUTTER AND DOWNSPOUT
- 9 KAWNEER ALUMINUM TRIFAB 400 SERIES STOREFRONT SYSTEM, SEE DOOR SCHEDULE
- 10 METAL COPING AT PARAPET
- 11 METAL PANEL
- 12 PAINTED WD MECHANICAL SCREEN
- 13 CONCRETE STEPS
- 14 METAL HANDRAIL
- 15 CONCRETE STEM WALL
- 16 2'-6" CONCRETE RETAINING WALL WITH 3" PRECAST CAP
- 17 CONCRETE ACCESS RAMP
- 18 CONCRETE RETAINING WALL
- 19 CONCRETE PATIO



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Sheet Title:
SOUTH AND WEST
ELEVATIONS

Sheet Number:

A200



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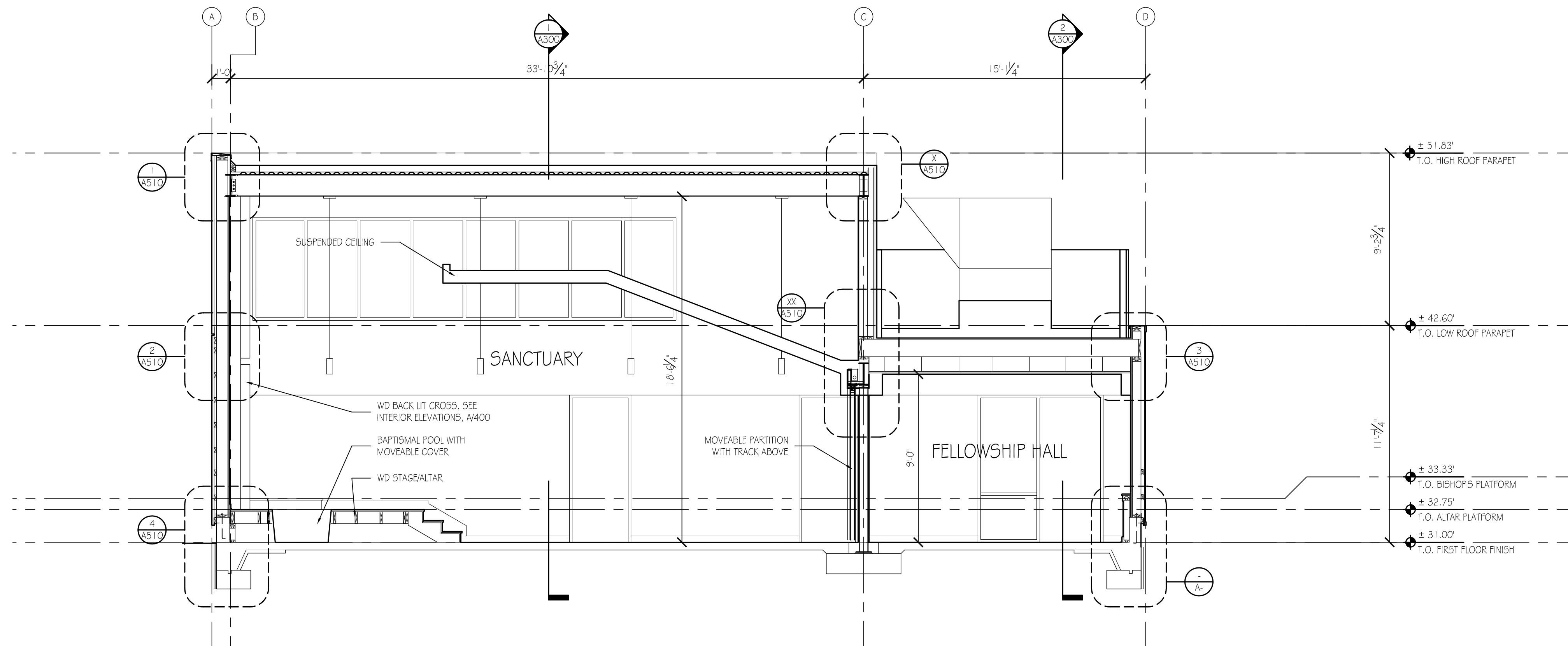
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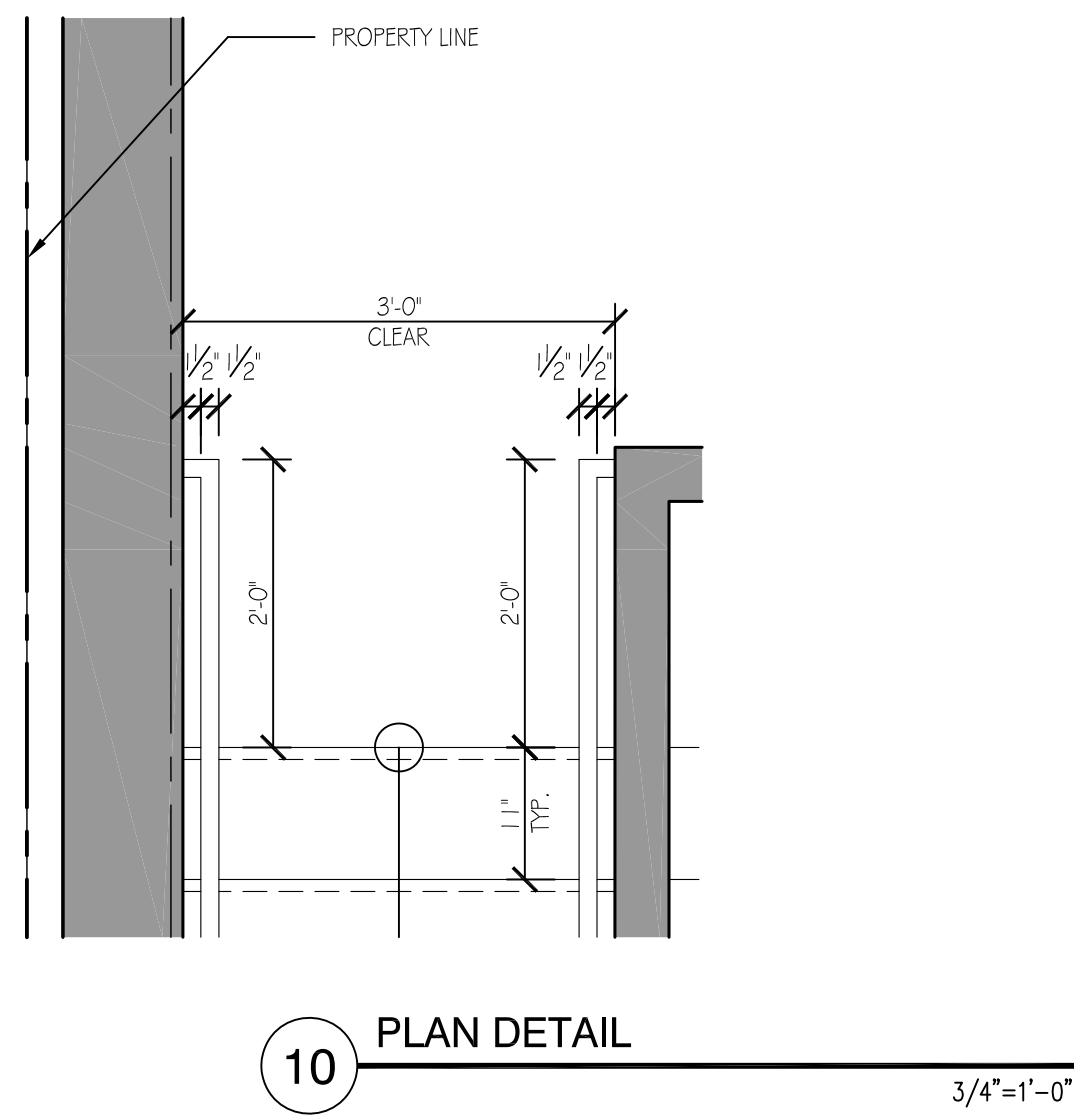
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BUILDING SECTIONS

Sheet Number:

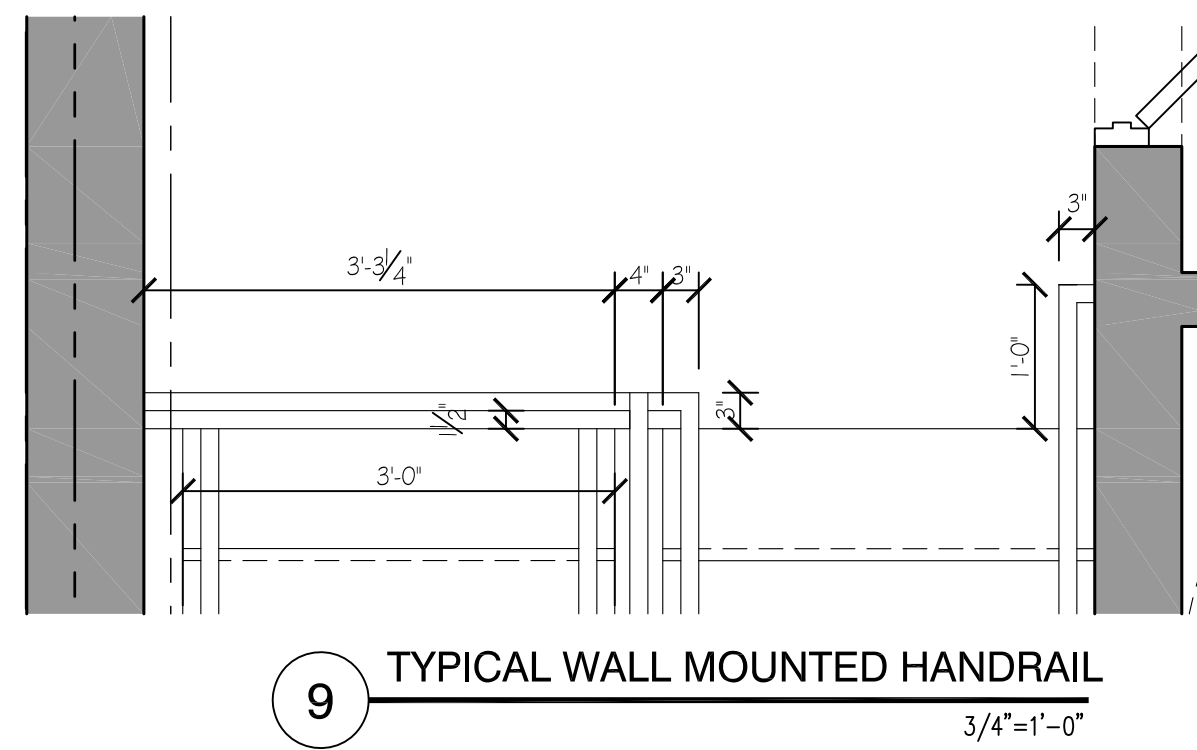
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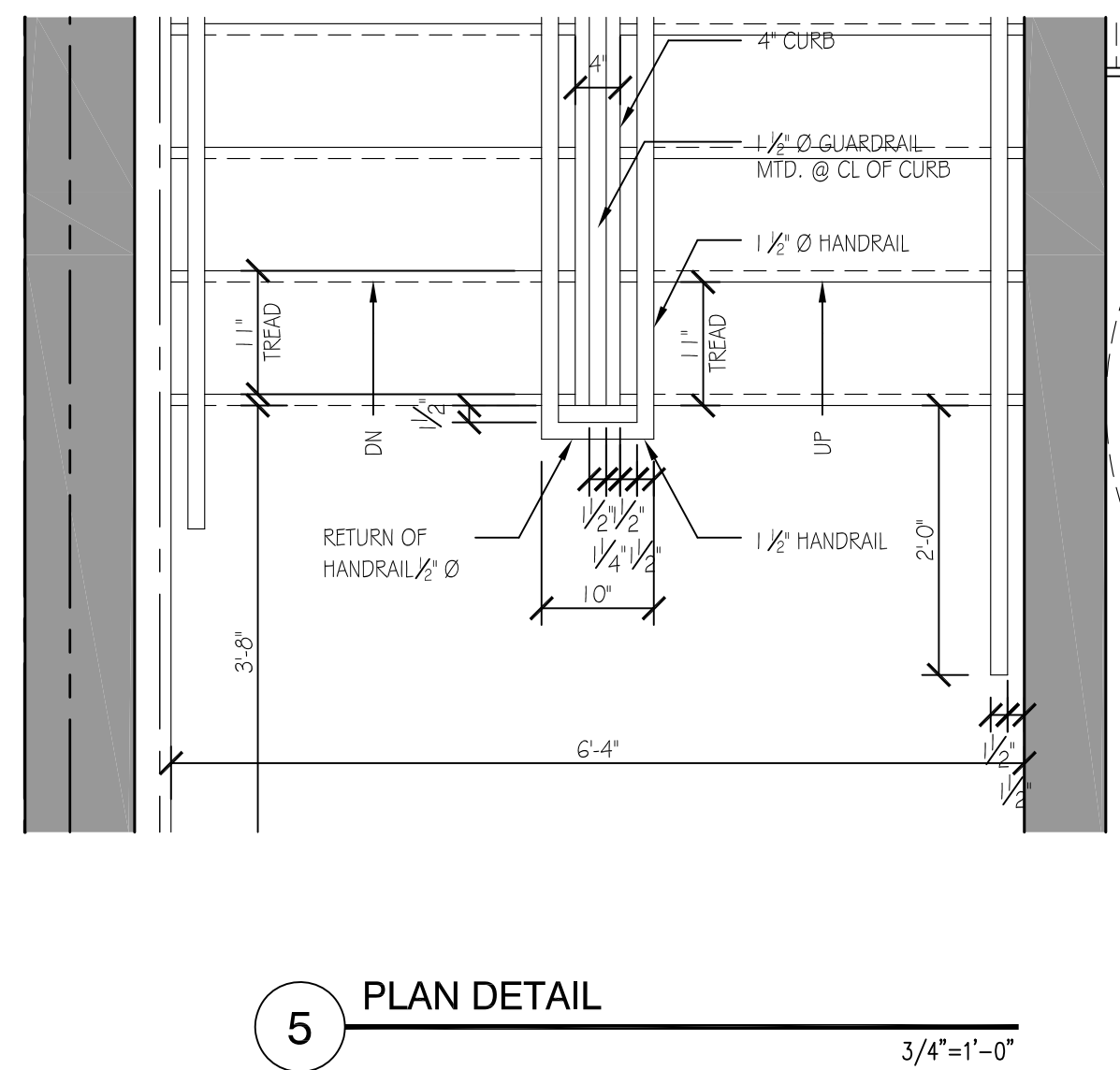
1 BUILDING CROSS SECTION
1/4" = 1'-0"



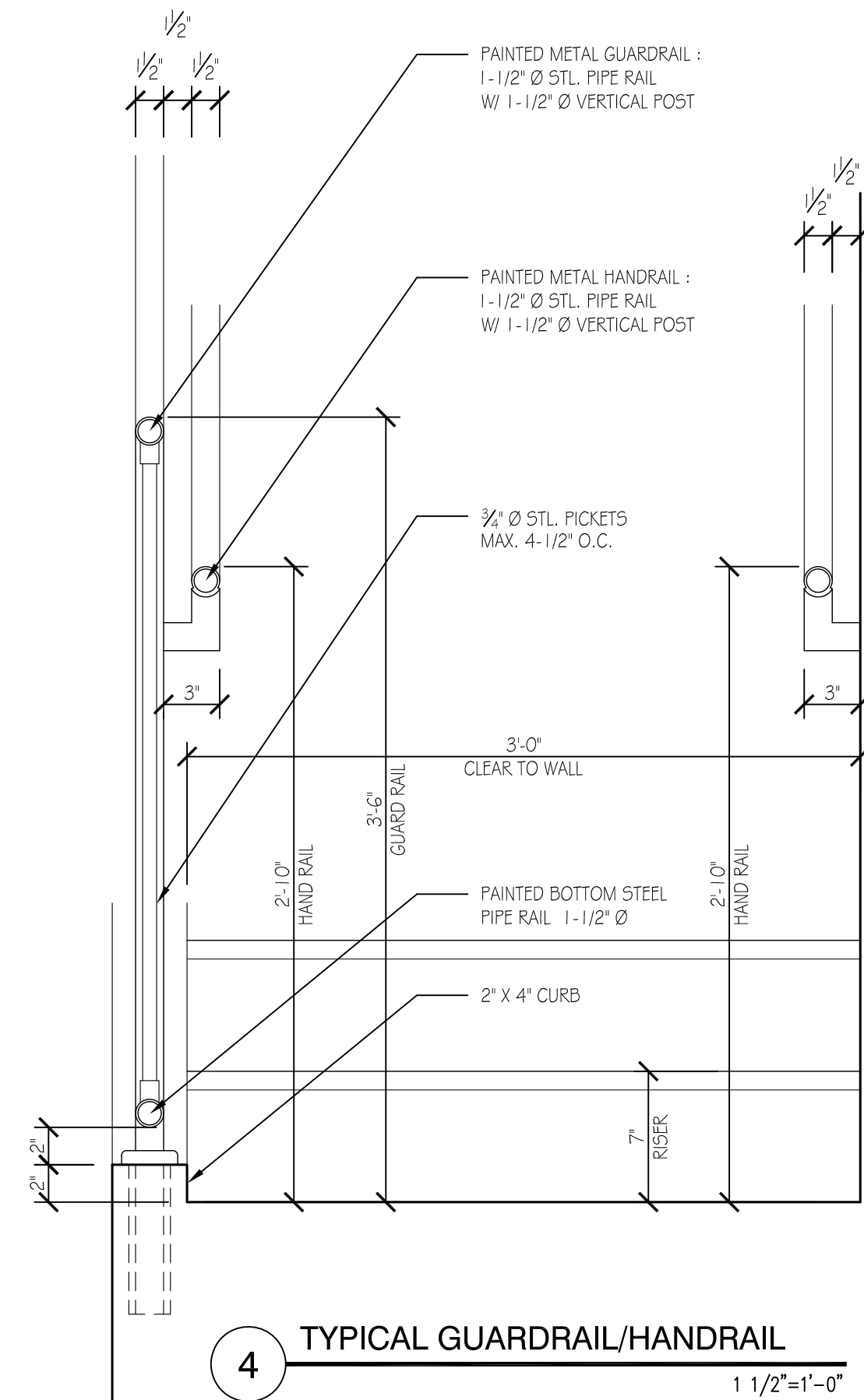
10 PLAN DETAIL
3/4"=1'-0"



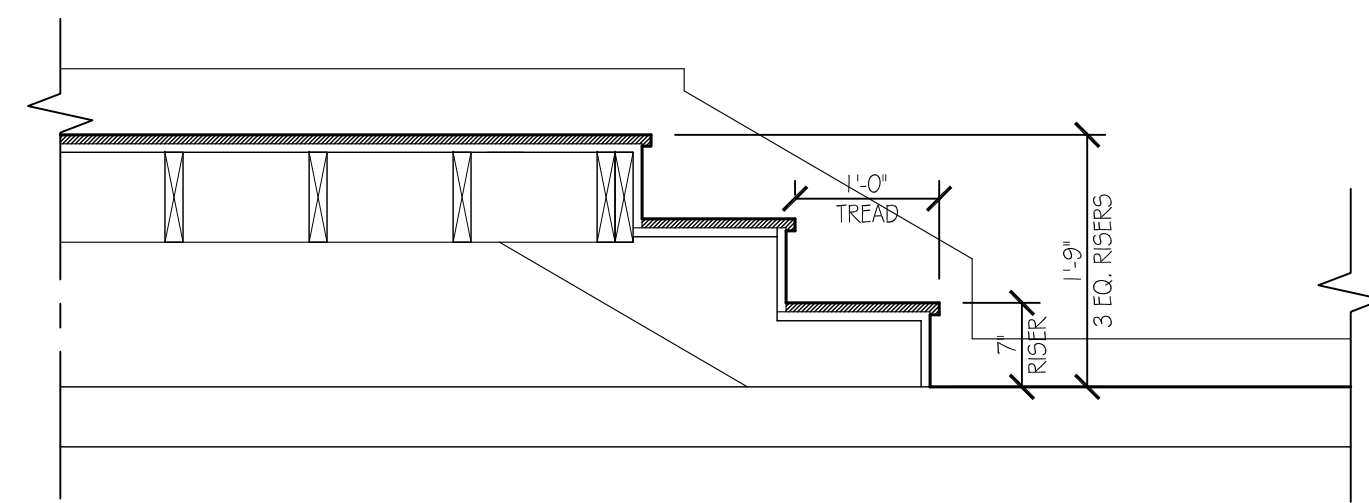
9 TYPICAL WALL MOUNTED HANDRAIL
3/4"=1'-0"



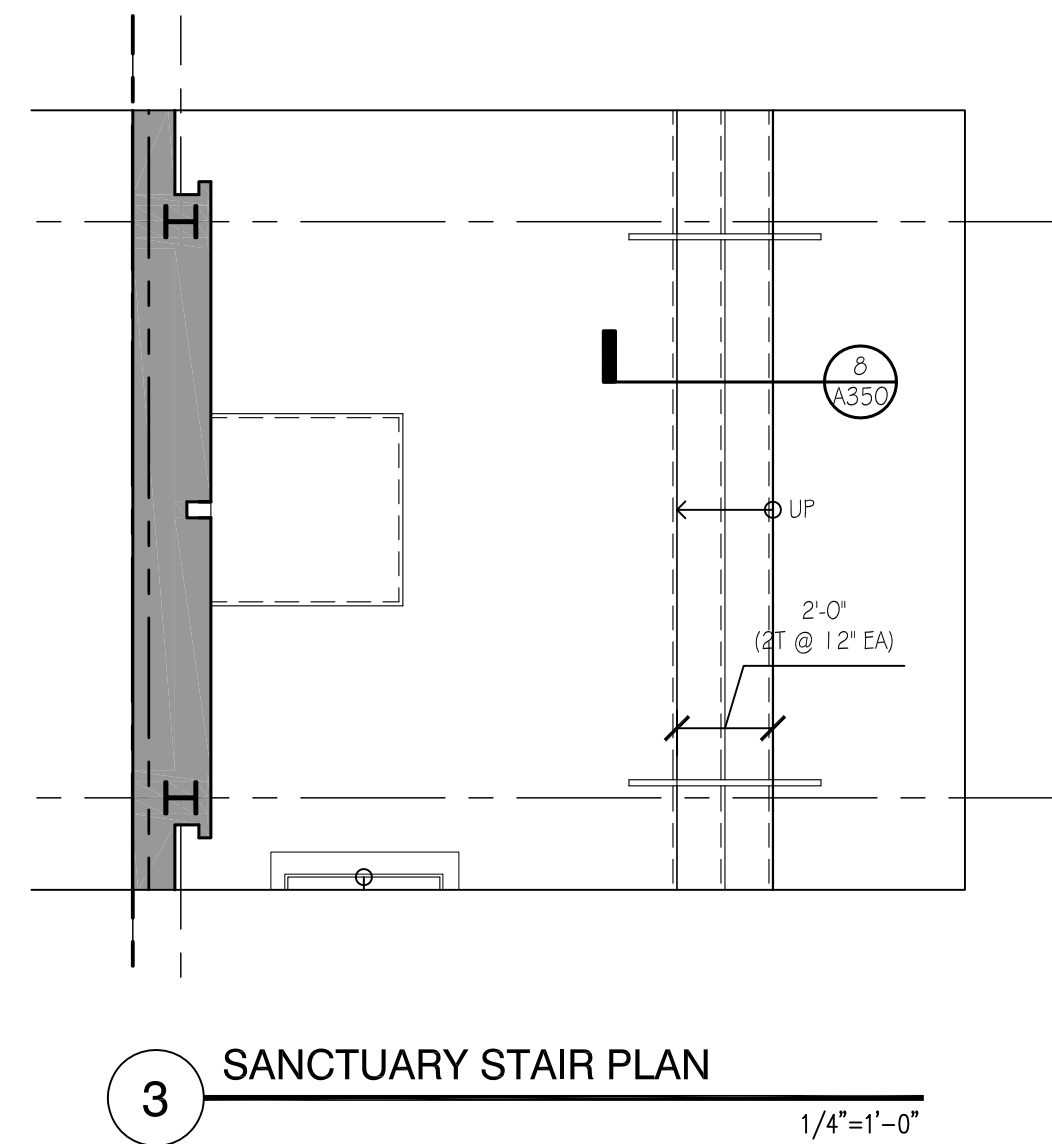
5 PLAN DETAIL
3/4"=1'-0"



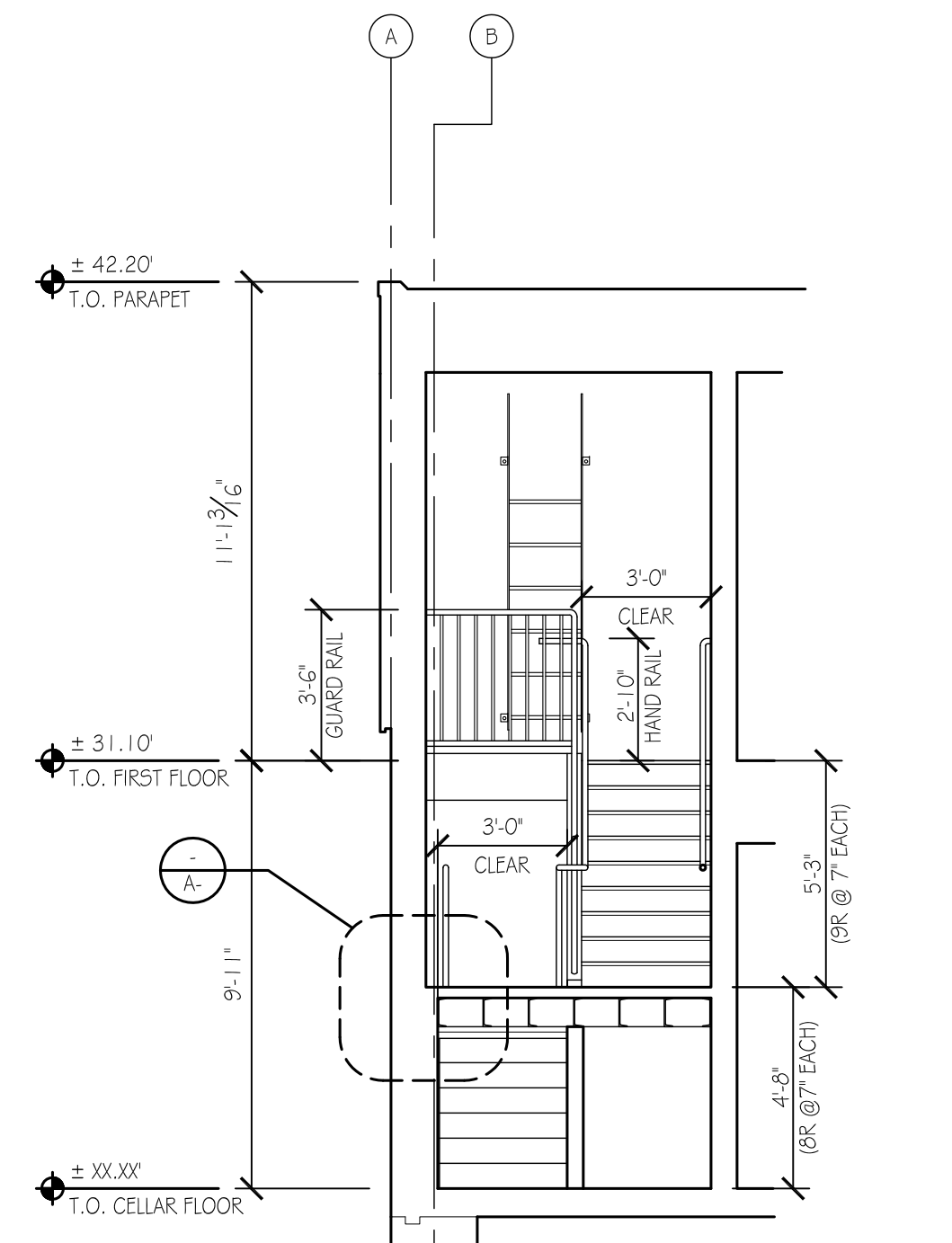
4 TYPICAL GUARDRAIL/HANDRAIL
1 1/2"=1'-0"



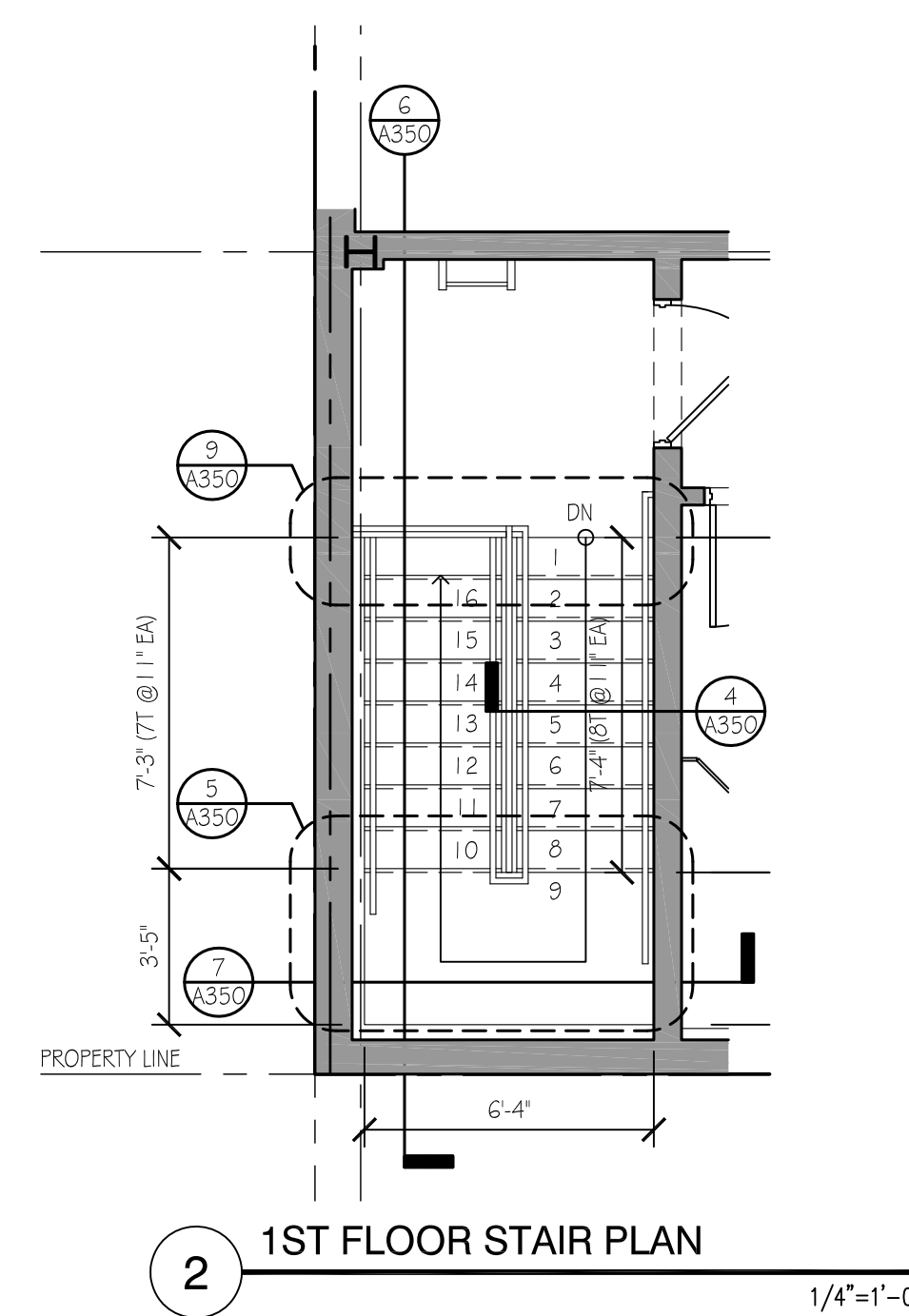
8 STAIR SECTION @ SANCTUARY STAGE
3/4"=1'-0"



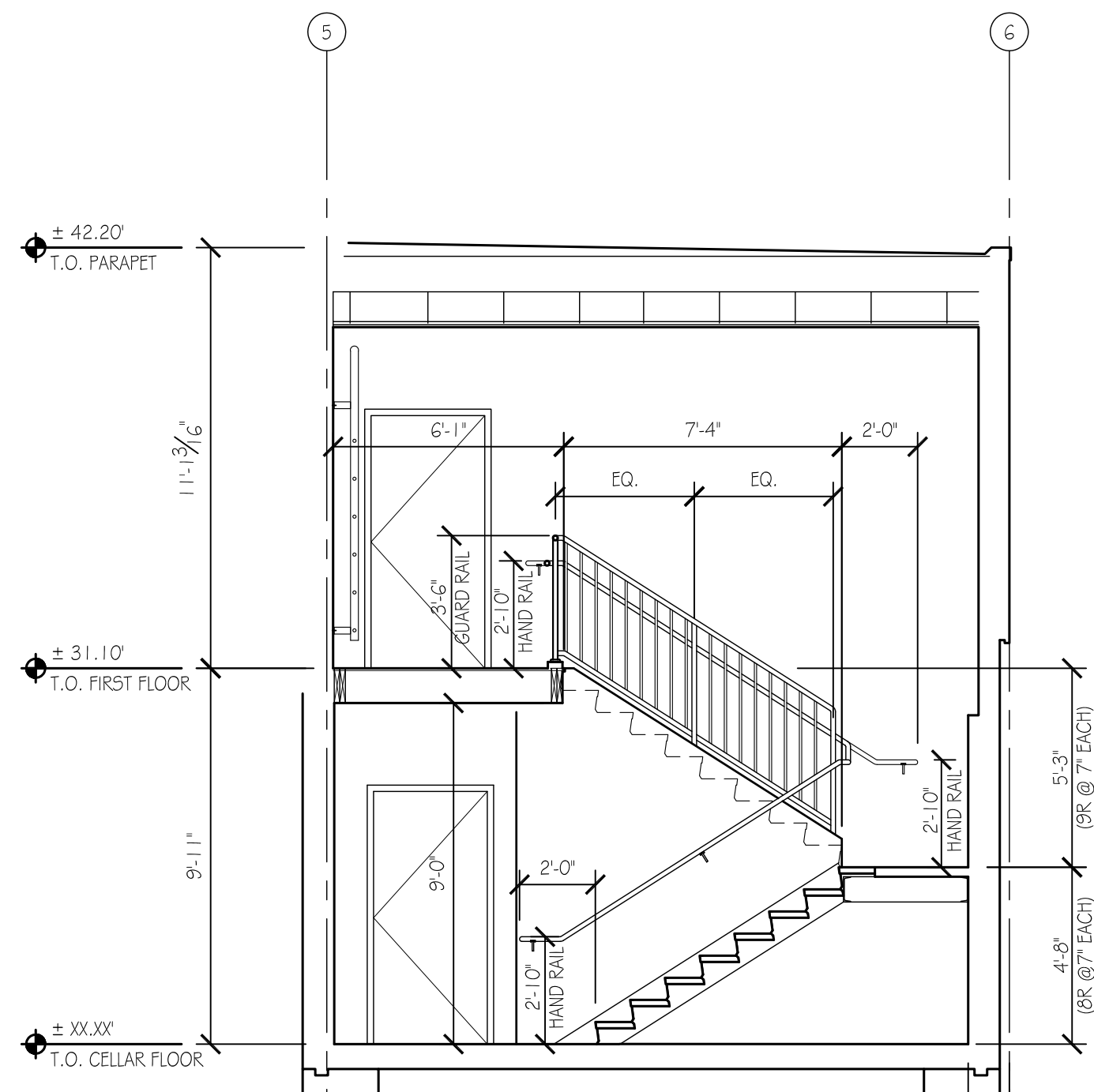
3 SANCTUARY STAIR PLAN
1/4"=1'-0"



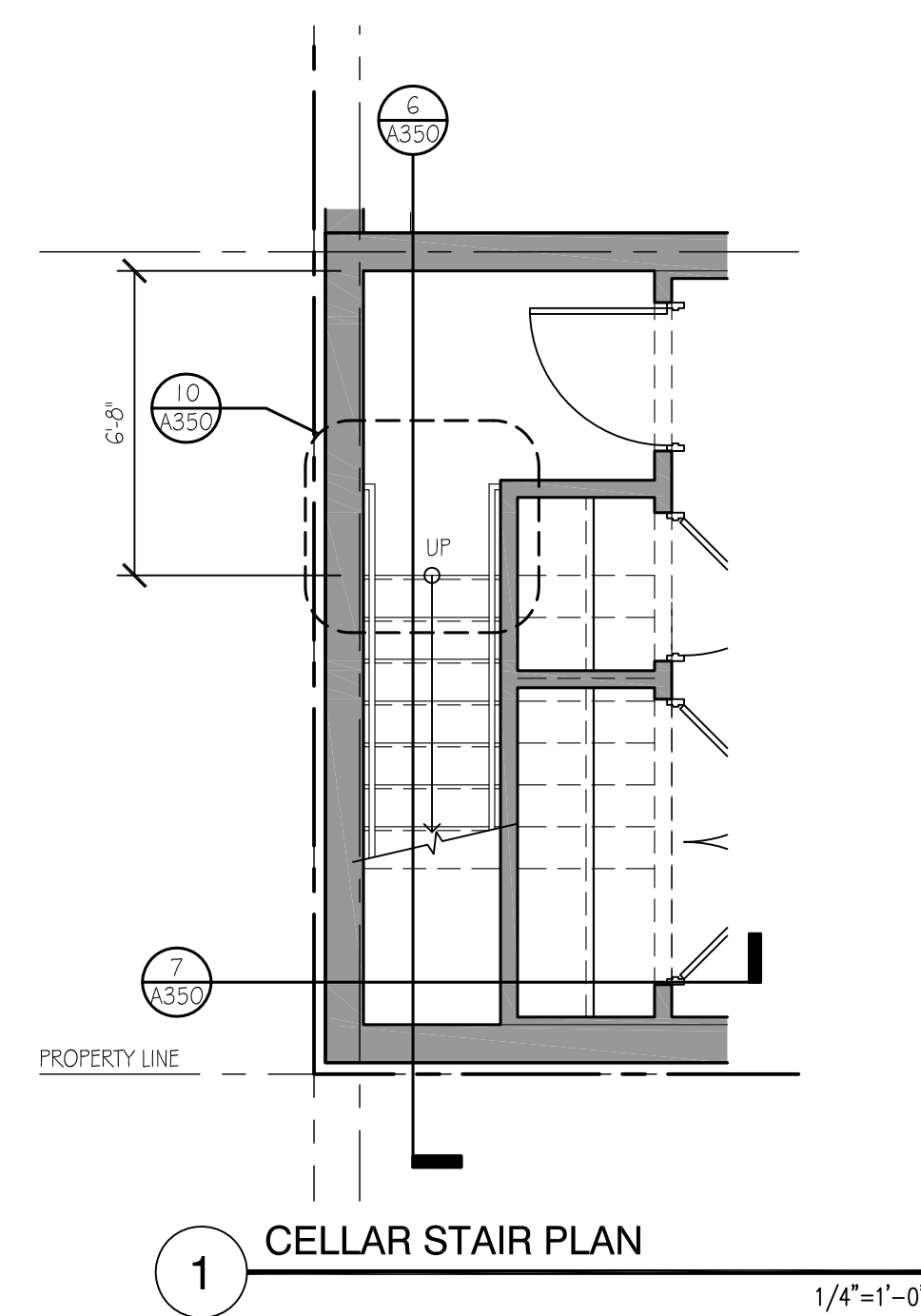
7 STAIR SECTION 2
1/4"=1'-0"



2 1ST FLOOR STAIR PLAN
1/4"=1'-0"



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



1 CELLAR STAIR PLAN
1/4"=1'-0"



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STAIR PLANS,
SECTIONS, & DETAILS

Sheet Number:

A350



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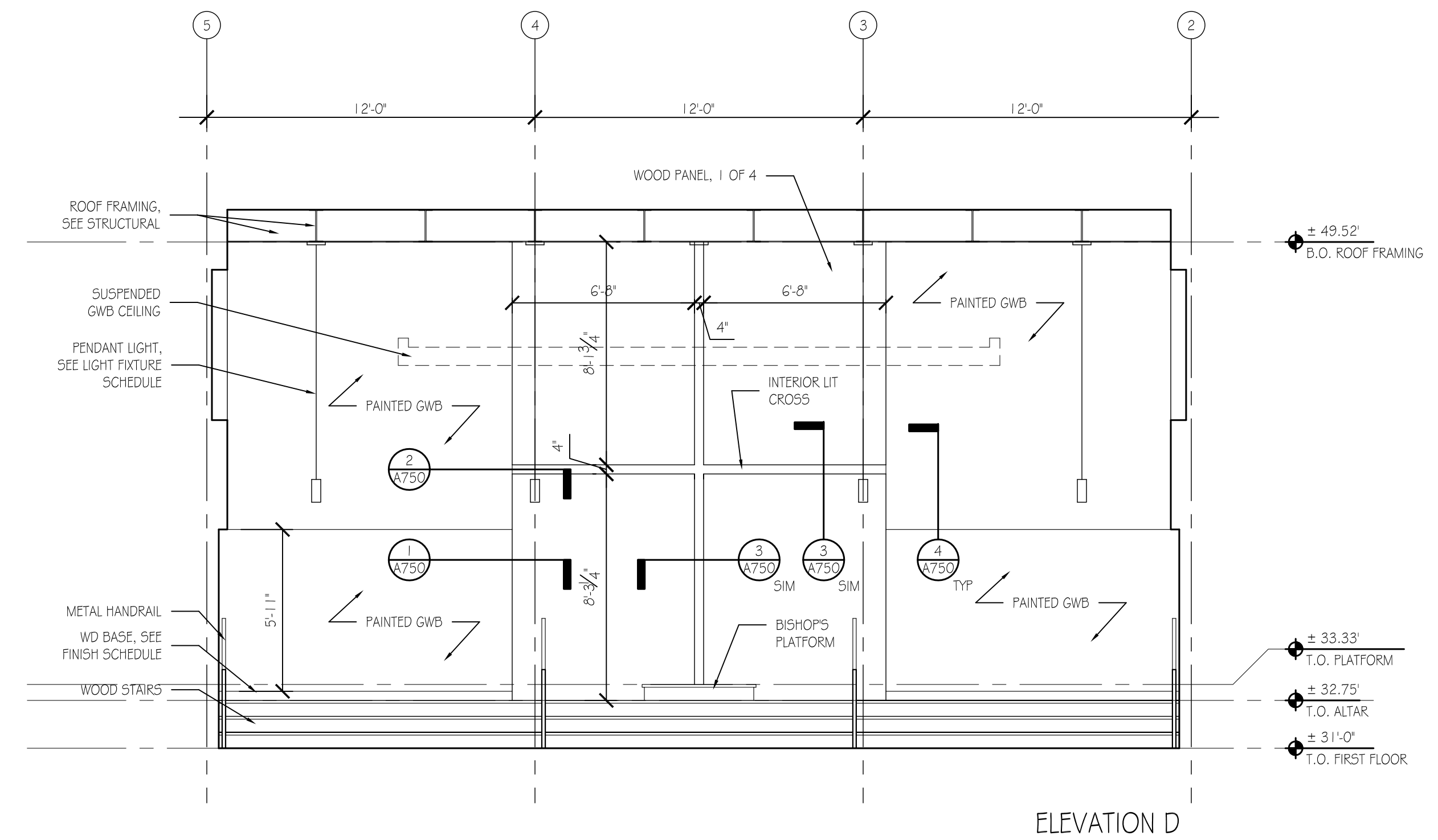
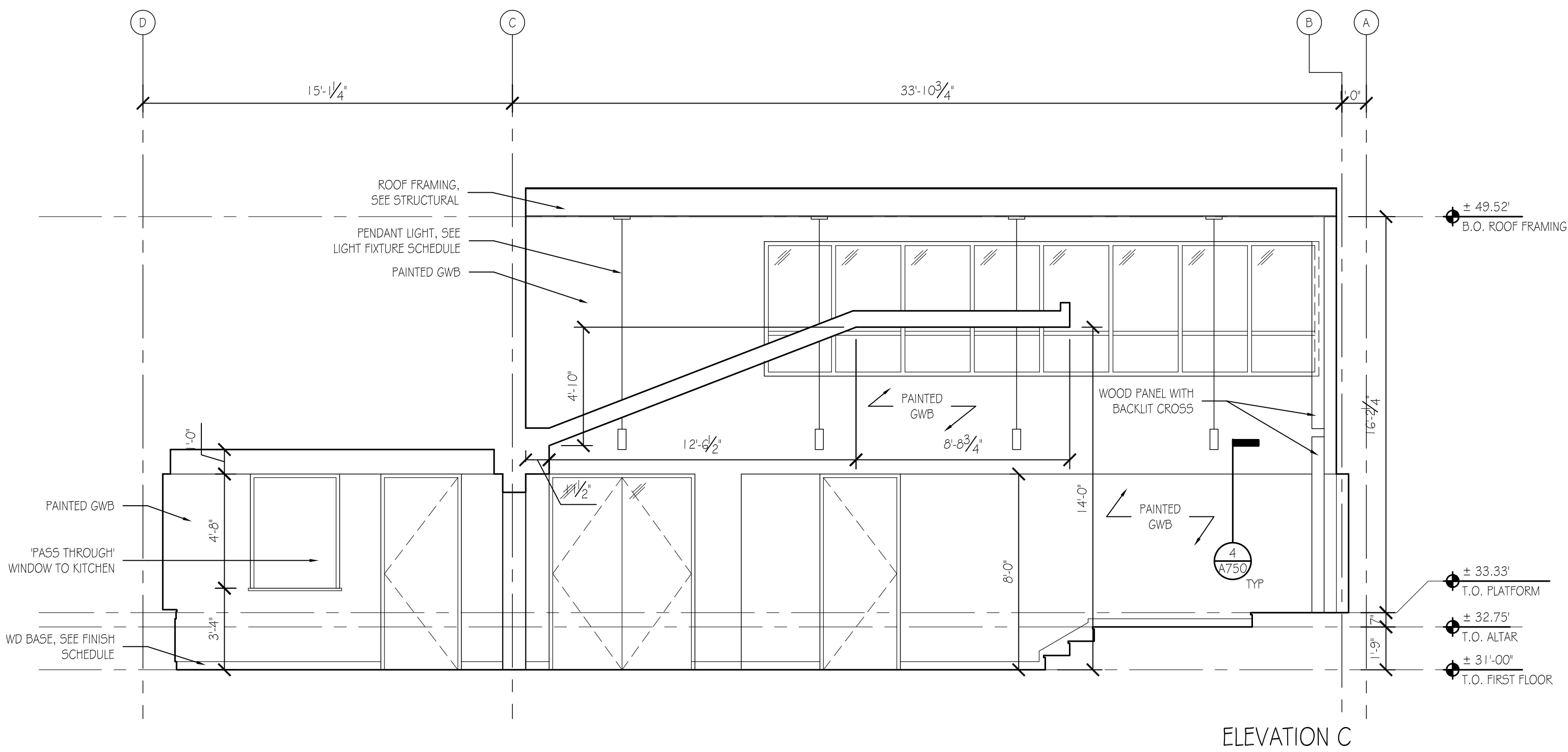
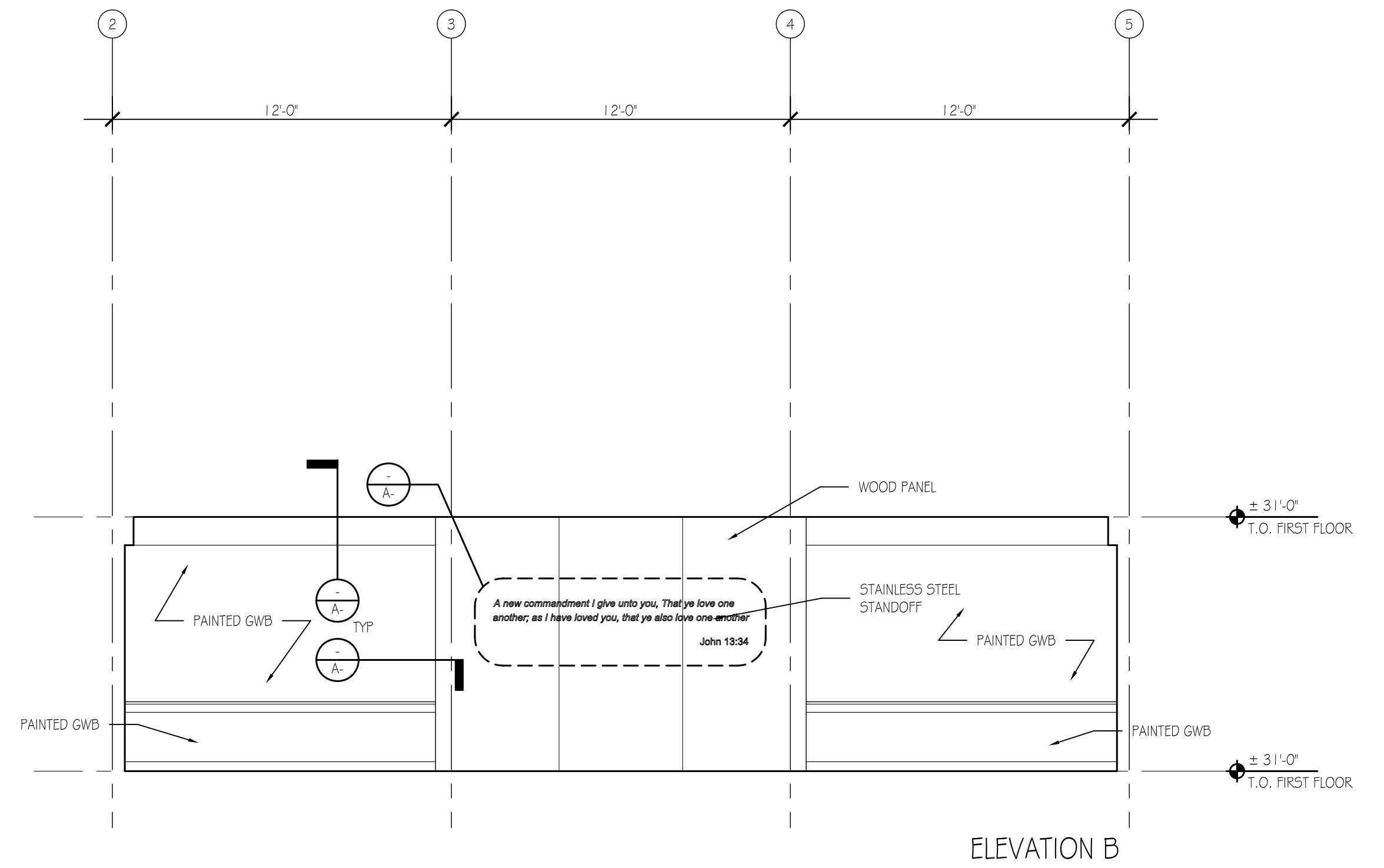
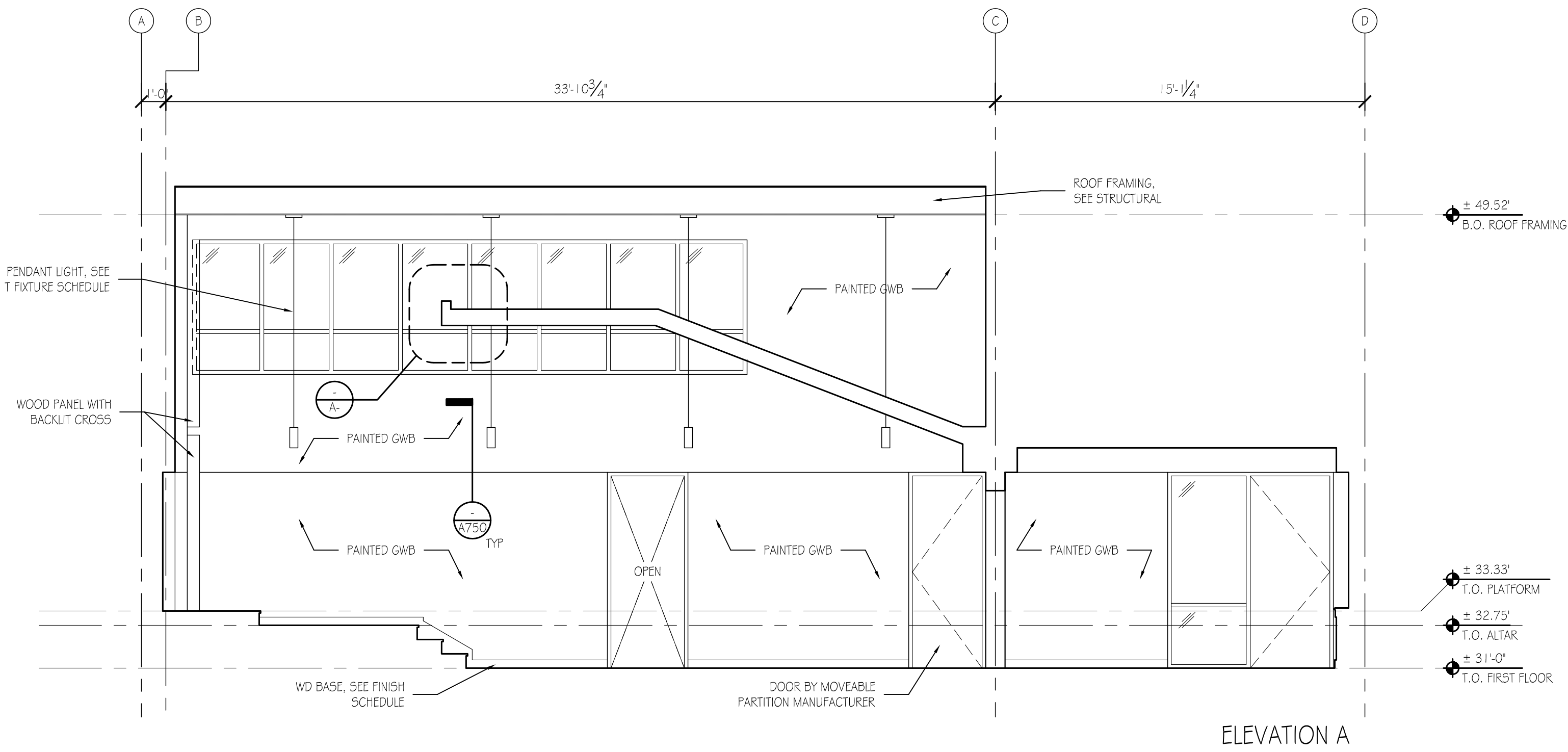
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Sheet Title:
INTERIOR ELEVATIONS

Sheet Number:

A400

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1 SANCTUARY & FELLOWSHIP HALL INTERIOR ELEVATIONS
1/4"=1'-0"



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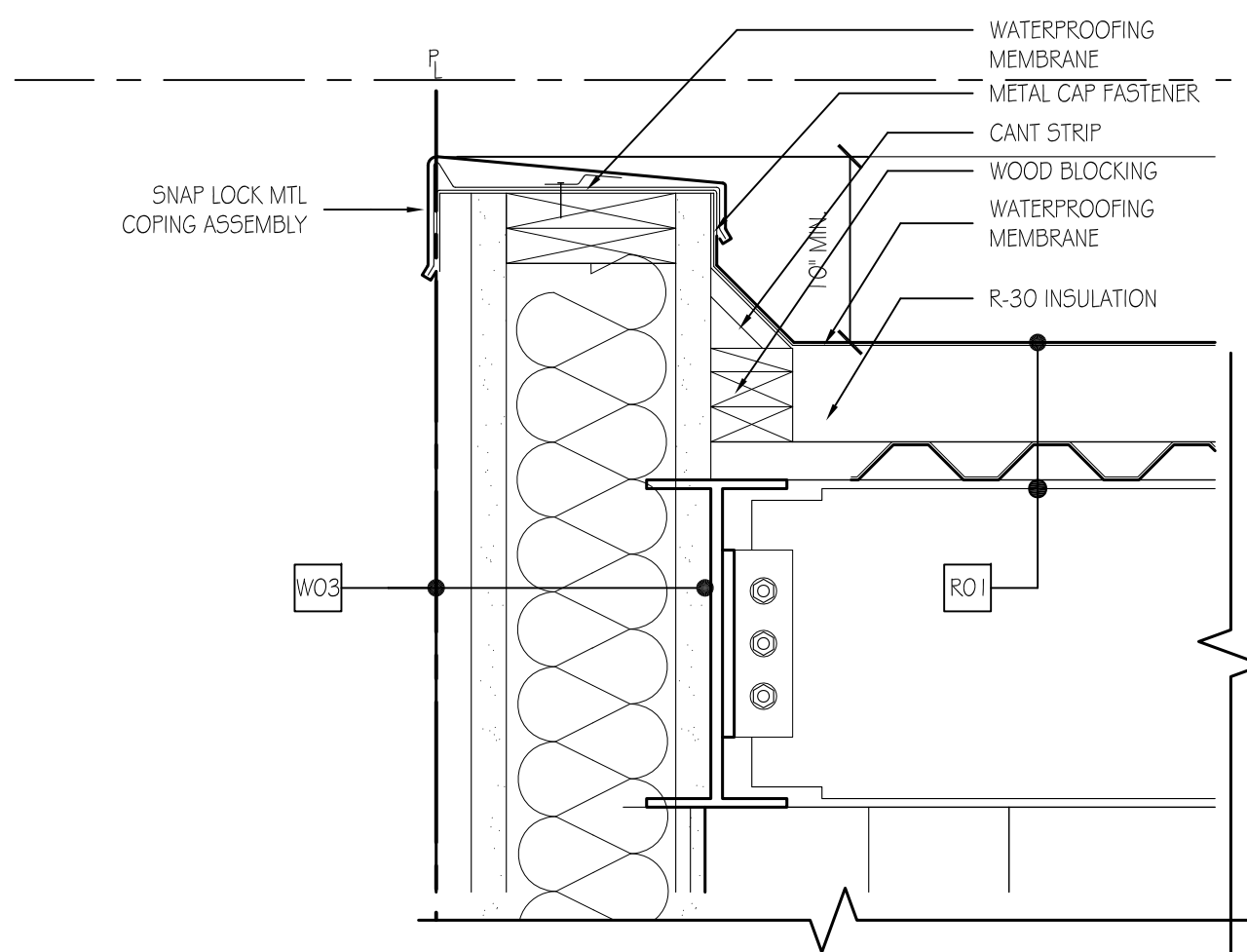
Issue Date:
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Sheet Title:
DETAIL SECTIONS

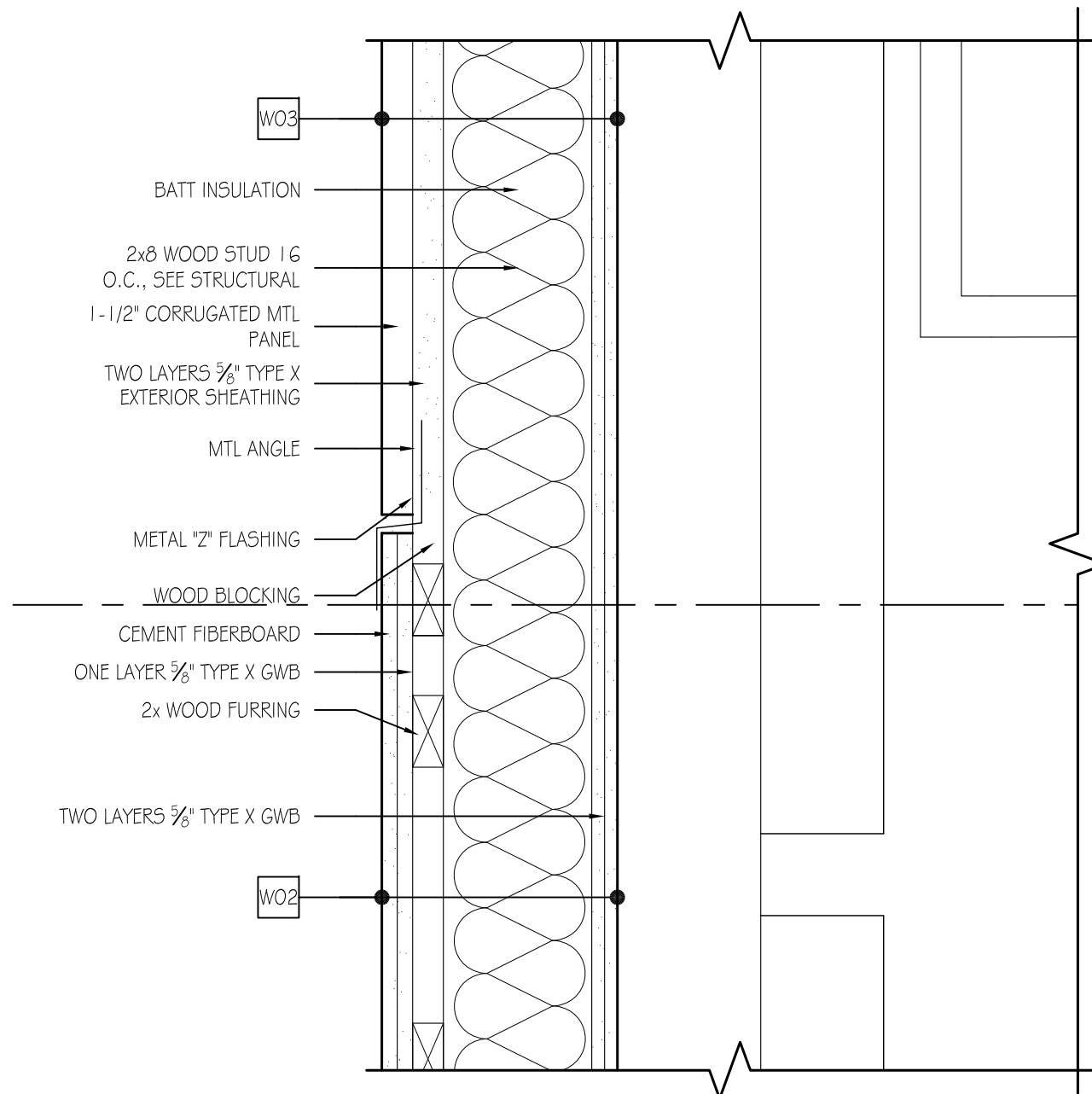
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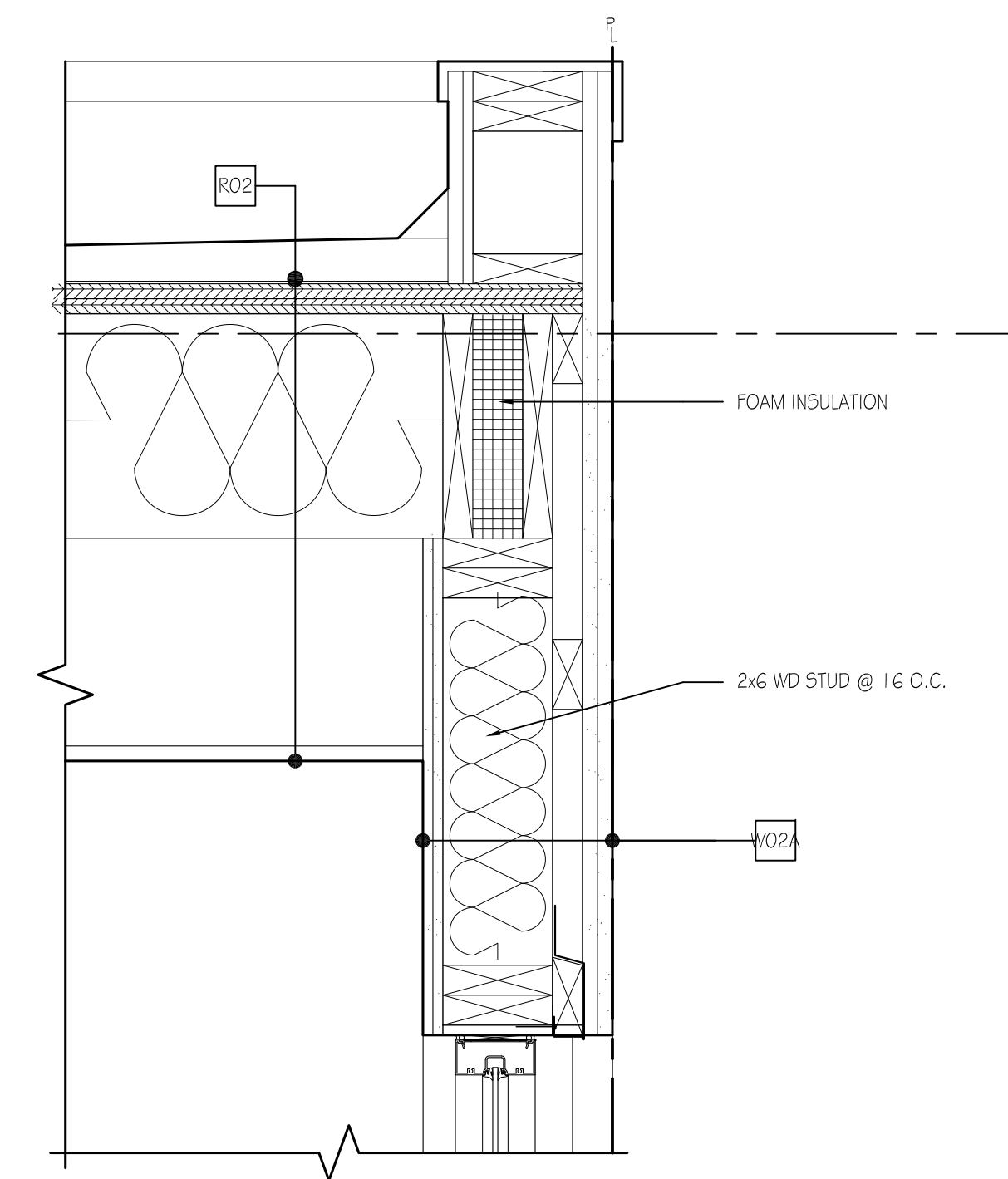
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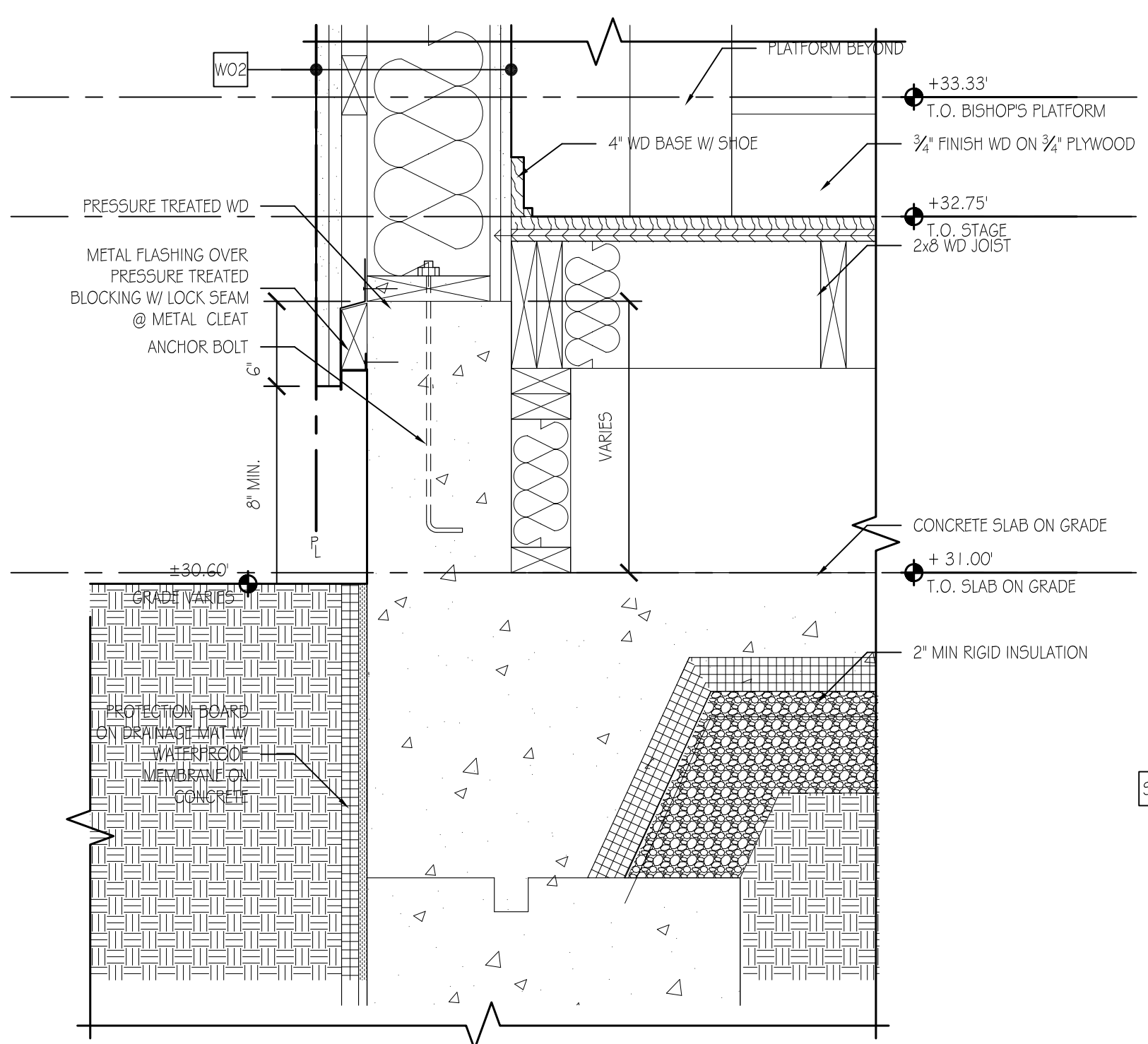
1 DETAIL SECTION
1-1/2"=1'-0"



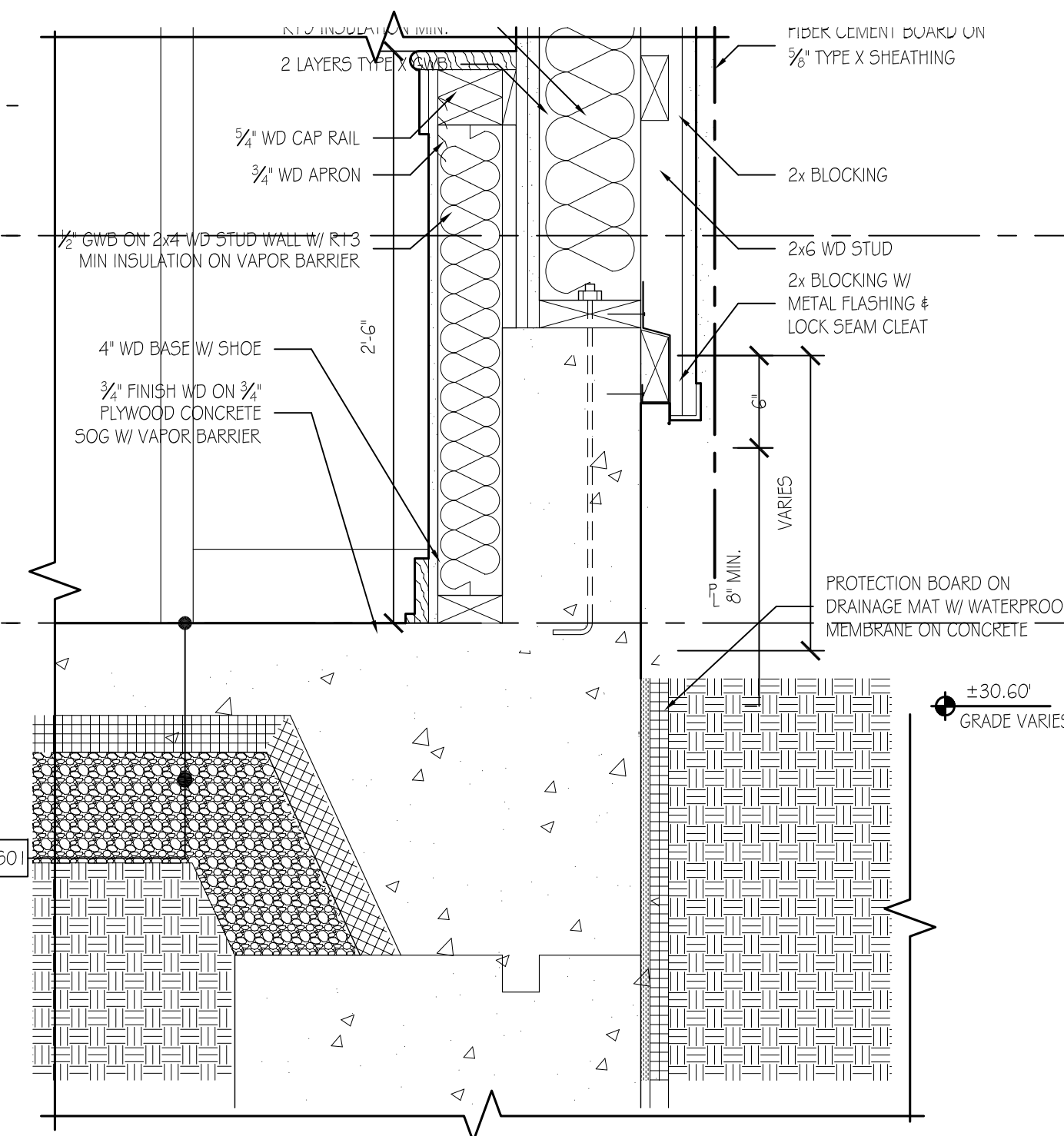
2 DETAIL SECTION
1-1/2"=1'-0"



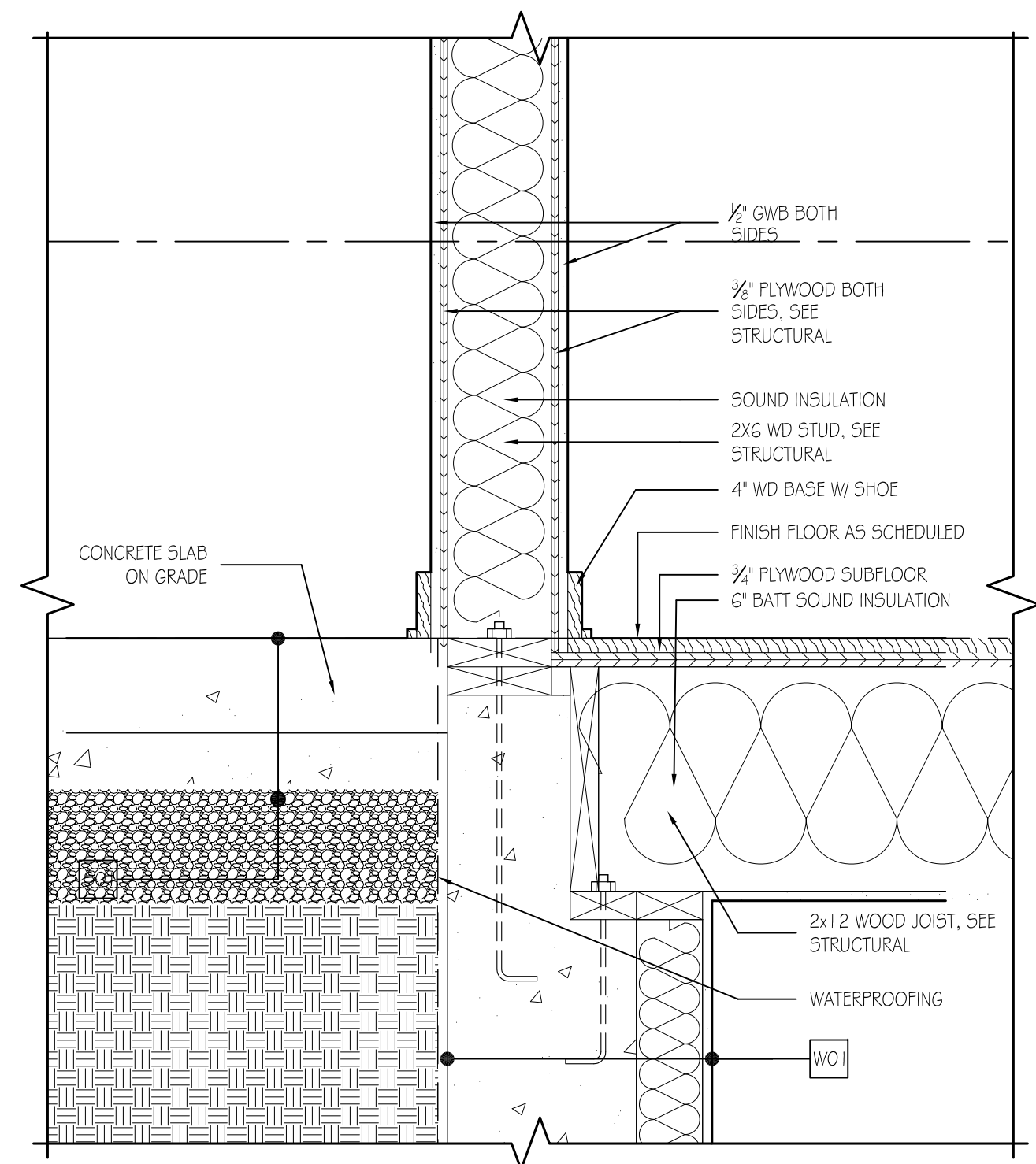
3 DETAIL SECTION
1-1/2"=1'-0"



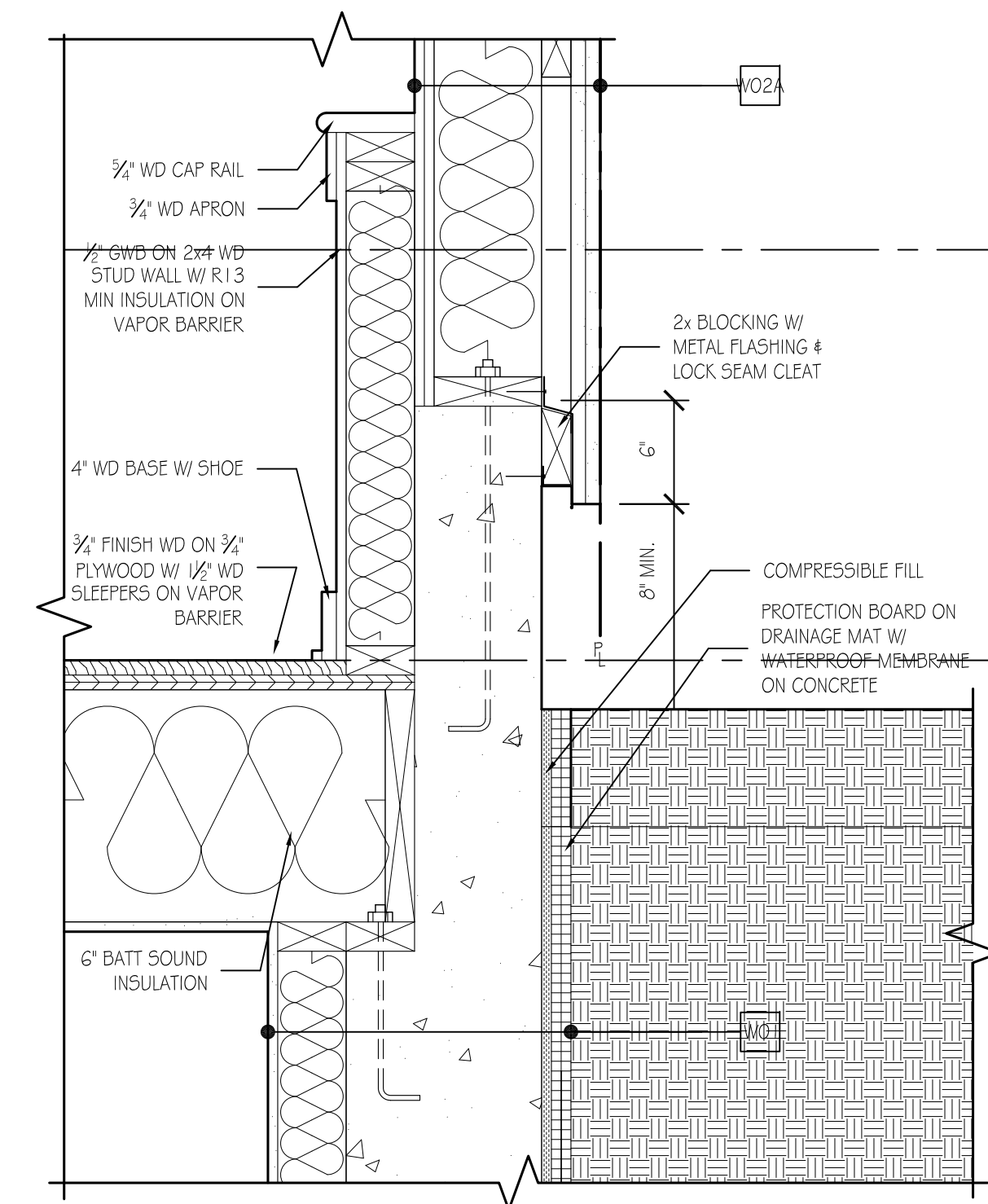
4 DETAIL SECTION
1-1/2"=1'-0"



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



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



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



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FINISH FLOOR PLANS

Sheet Number:

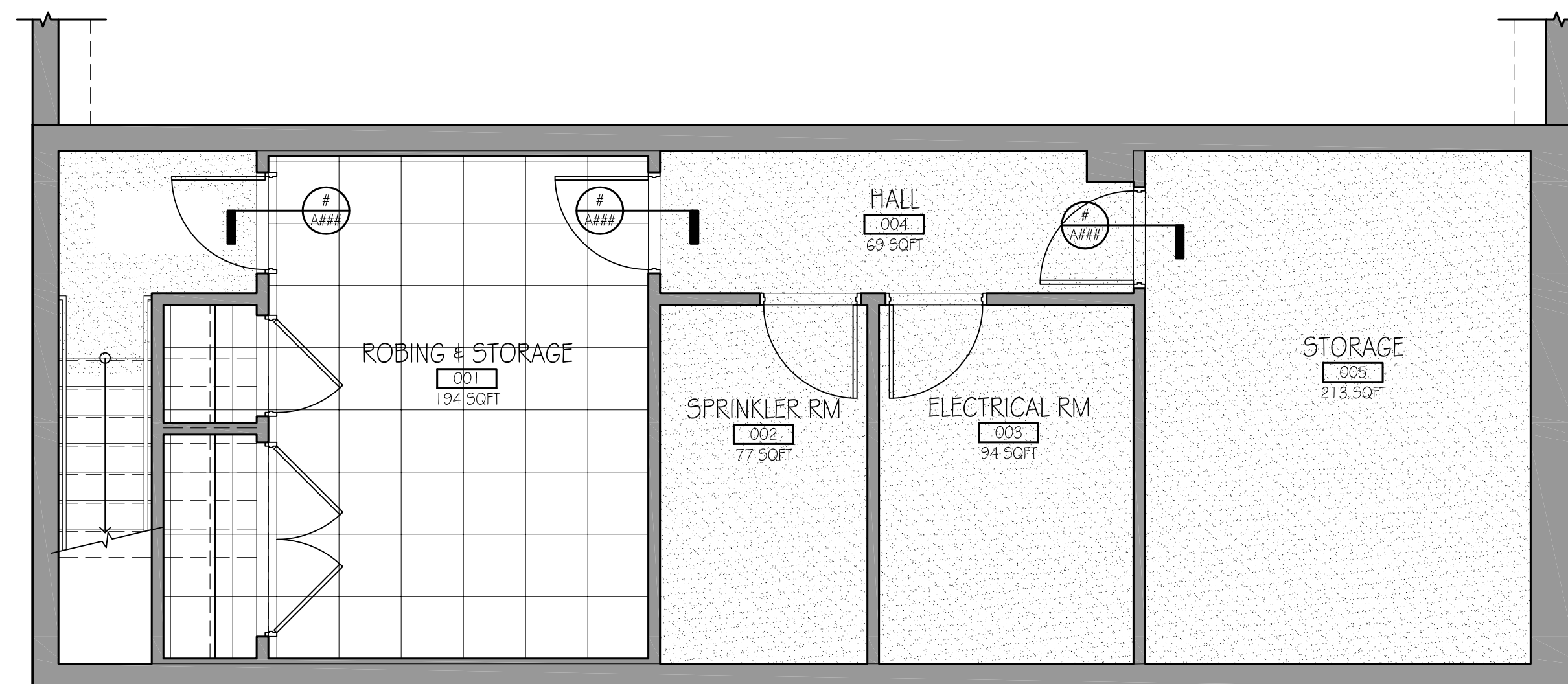
A700

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FINISH FLOOR PLAN KEY

	2X2' CARPET TILE
	QUARRY TILE
	SEALED CONCRETE
	WOOD
	CERAMIC TILE
	STONE/MARBLE

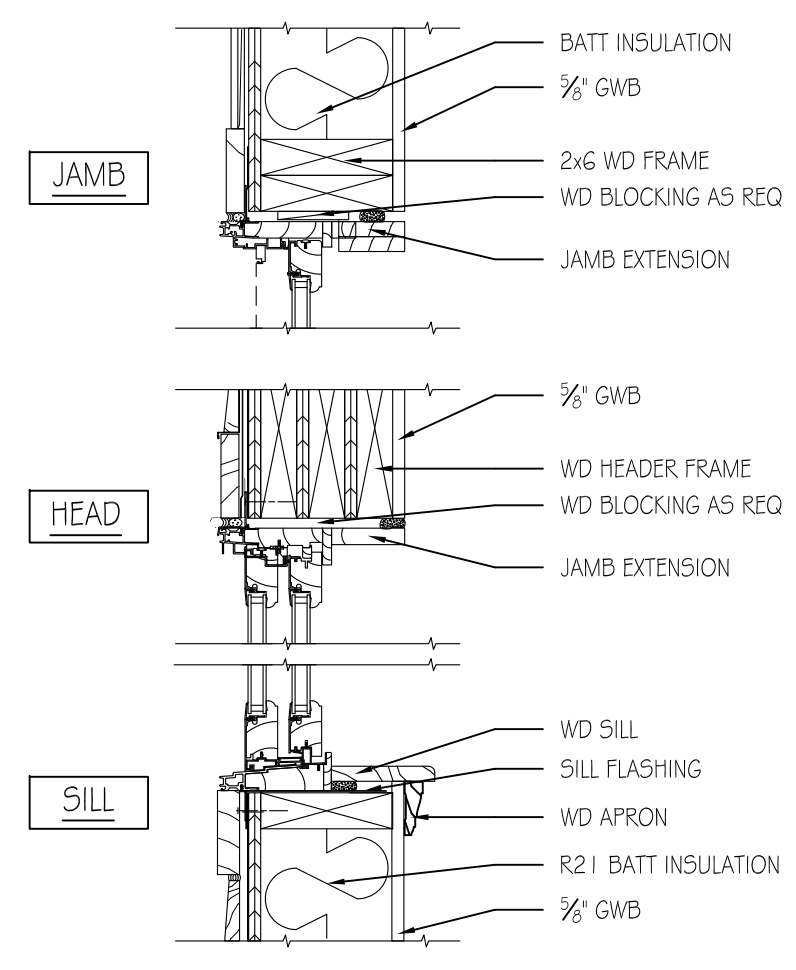
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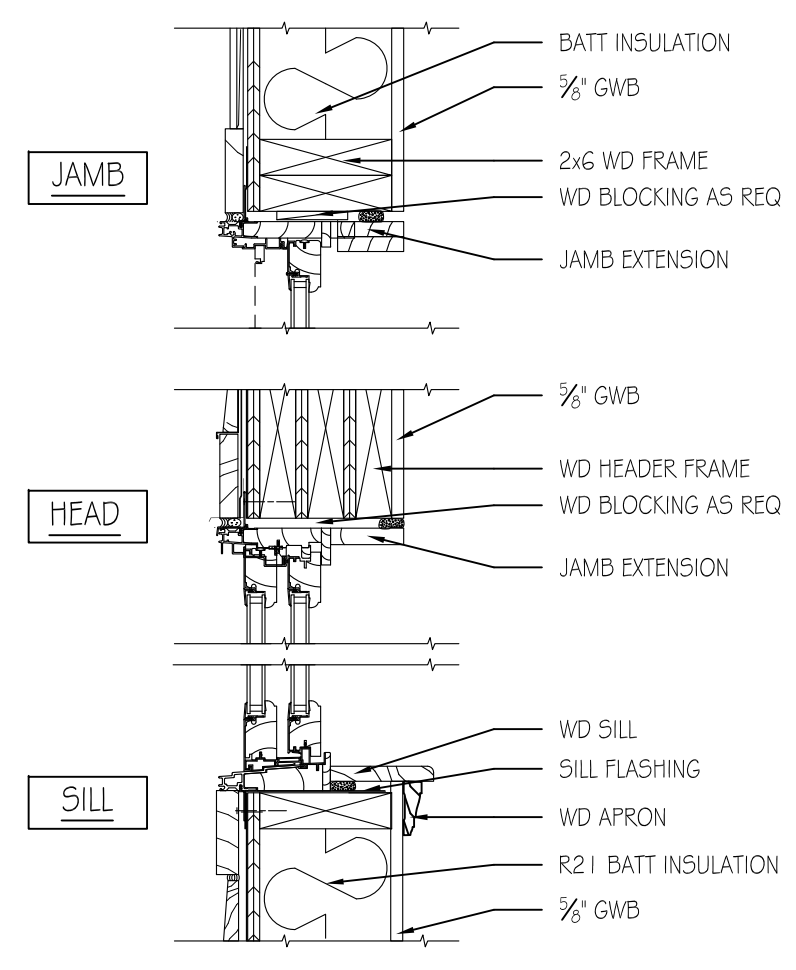
1 CELLAR FINISH PLAN
1/4"=1'-0"



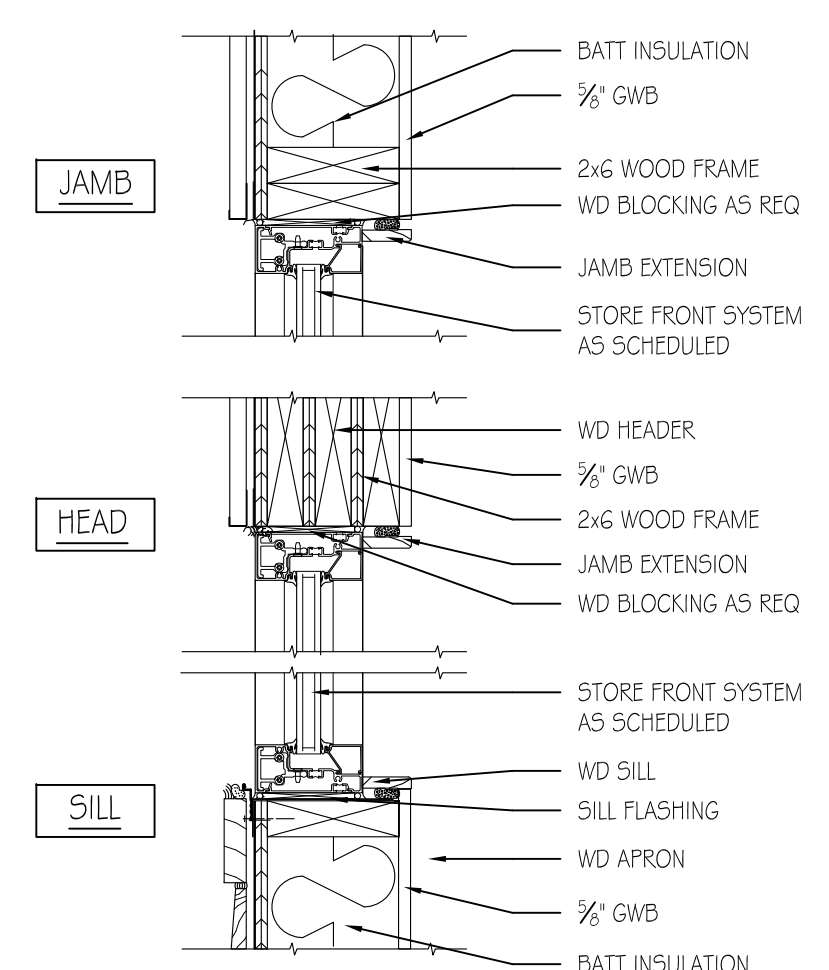
1 FIRST FLOOR FINISH PLAN
1/4"=1'-0"



10 CLADWD CASEMENT WINDOW DTLs 1/12"=1'-0"

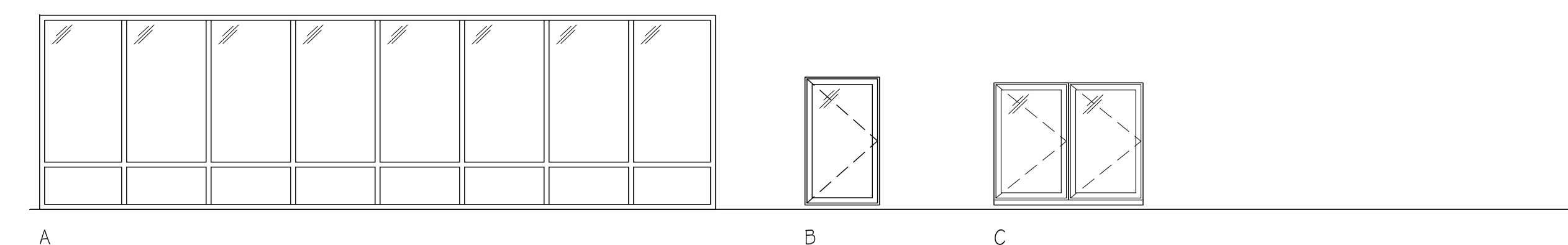


9 CLAD/WD GLIDER WINDOW DTLs 1/12"=1'-0"



8 STOREFRONT WINDOW DTLs 1/4"=1'-0"

WINDOW TAG	WINDOW SIZE (R.O.)		WINDOW TYPE				EXTERNAL FRAME		INTERIOR FRAME			WINDOW DETAILS	NOTES
	WIDTH	HEIGHT	TYPE	MATERIAL	ELEVATION	MATERIAL	ELEVATION	MATERIAL	HEAD	SILL	JAMB		
W02	22'-8"	5'-5"	STOREFRONT	WOOD	A	ALUM		ALUM	8/A710	8/A710	8/A710	BOD - KAWNEER	
W03	2'-6"	3'-11"	OPERABLE CASEMENT	WOOD	B	ALUM		ALUM	9/A710	9/A710	9/A710	BOD - MARVIN	
W04	5'-3"	3'-11"	OPERABLE CASEMENT	WOOD	C	ALUM		ALUM	10/A710	10/A710	10/A710	BOD - MARVIN	

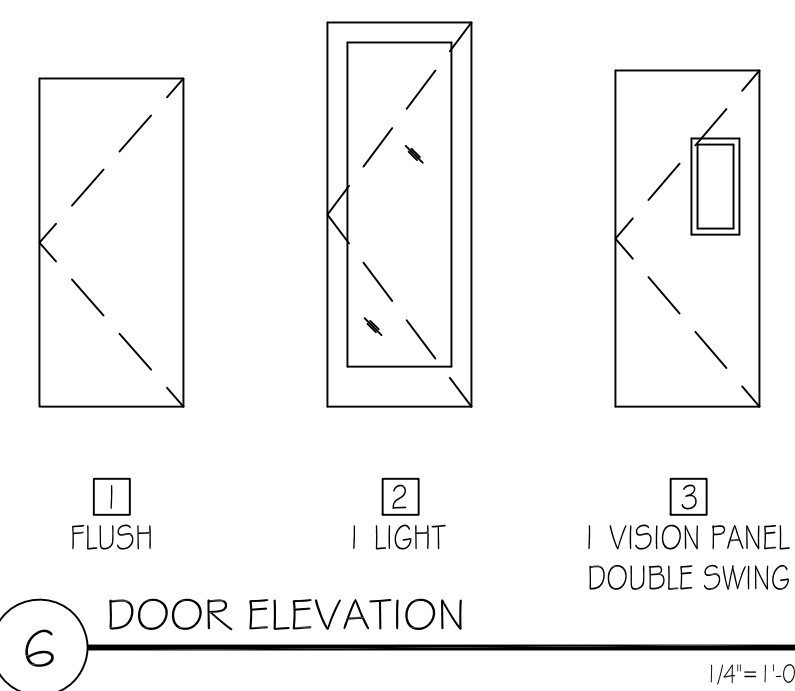


7 WINDOW ELEVATION 1/12"=1'-0"

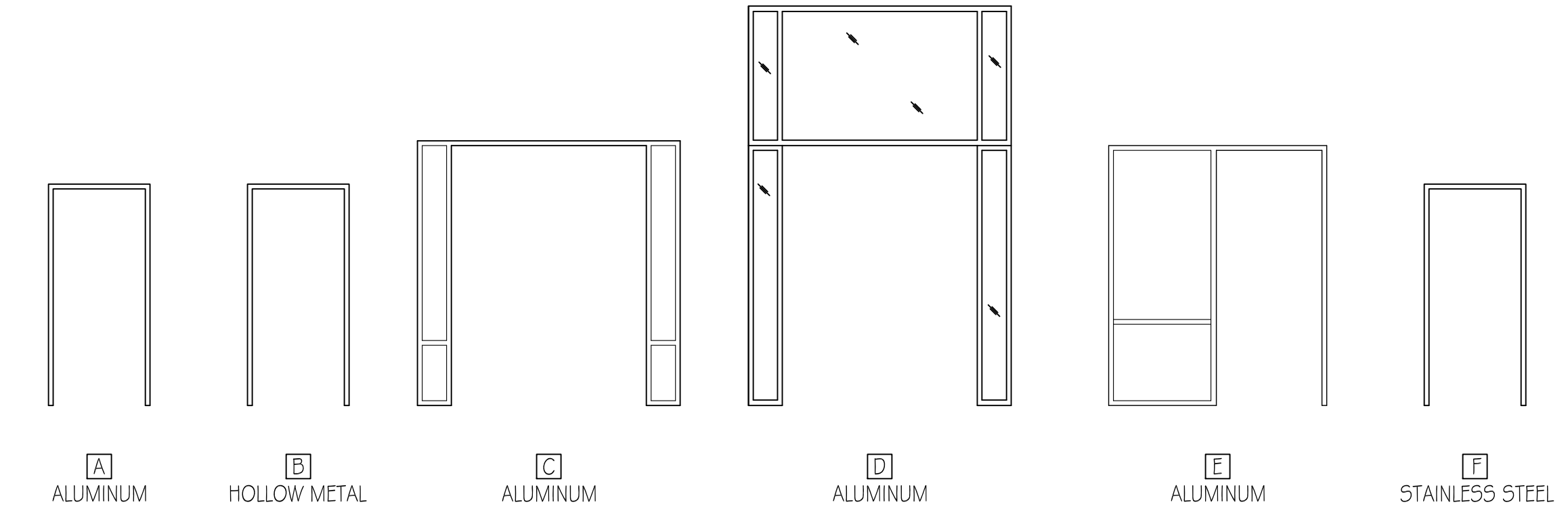
HARDWARE SCHEDULE				
SET	HARDWARE SET DESCRIPTION	MODEL	NOTES	MANUFACTURER
01	HINGE			
	FLUSH BOLTS			
	CLASSROOM LOCK			
	ASTRAGAL BY OTHERS			
	SURFACE CLOSER			
	BY ALUM SUPPLIER			
02	HINGE			
	PASSAGE SET			
	SURFACE CLOSER			
	KICK PLATE			
	ROLLER BUMPER			
	THRESHOLD			
	SILENCER			
03	HINGE			
	STOREROOM LOCK			
	KICK PLATE			
	WALL STOP			
	THRESHOLD			
	SILENCER			
04	HINGE			
	PASSAGE SET			
	FLOOR STOP			
	THRESHOLD			
04A	HINGE			
	MANUAL FLUSH BOLT			
	DUST PROOF STRIKE			
	PASSAGE SET			
	ROLLER BUMPER			
	WALL STOP			
	THRESHOLD			
04B	HINGE			
	PASSAGE SET			
	WALL STOP			
	THRESHOLD			
04C	HINGE			
	PASSAGE SET			
	WALL STOP			
	THRESHOLD			
04D	HINGE			
	PASSAGE SET			
	WALL STOP			
	THRESHOLD			
05	HINGE			
	PRIVACY SET			
	KICK PLATE			
	WALL STOP			
	THRESHOLD			

HARDWARE SCHEDULE				
SET	HARDWARE SET DESCRIPTION	MODEL	NOTES	MANUFACTURER
06	HINGE			
	ENTRANCE LOCK			
	SURFACE CLOSER			
	WALL STOP			
	THRESHOLD			
06A	HINGE			
	ENTRANCE LOCK			
	SURFACE CLOSER			
	WALL STOP			
	THRESHOLD			
06B	HINGE			
	ENTRANCE LOCK			
	SURFACE CLOSER			
	WALL STOP			
	THRESHOLD			
07	HINGE			
	PANIC DEVICE			
	MORTISE CYLINDER			
	SURFACE CLOSER			
	KICK PLATE			
	WEATHERSTRIPPING			
	DOOR SWEEP			
	THRESHOLD			
	SILENCER			
08	HINGE			
	PANIC DEVICE			
	PANIC DEVICE			
	MORTISE CYLINDER			
	SURFACE CLOSER			
	BY ALUM SUPPLIER			
09	HINGE			
	CLASSROOM LOCK			
	SURFACE CLOSER			
	KICK PLATE			
	THRESHOLD			
	SILENCER			
10	HINGE			
	INTERCONNECT LOCK			
	SURFACE CLOSER			
	KICK PLATE			
	WALL STOP			
	UL GASKETING			
	THRESHOLD			
	SILENCER			

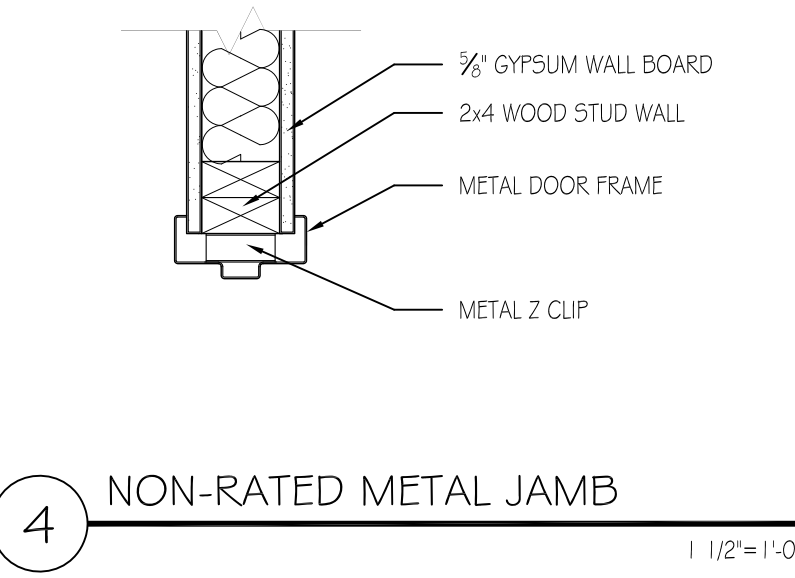
DOOR SCHEDULE															
LOCATION	DOOR SIZE	THK.	DOOR TYPE			FRAME TYPE			FRAME DETAIL			DOOR NOTES			
			WIDTH	HEIGHT	FINISH	ELEVATION	MATERIAL	FINISH	ELEVATION	HEAD	JAMB	SILL	FIRE RATED	HARDWARE	NOTES
001A	EGRESS STAIR	3'-0"	6'-8"	WOOD	STAINED	1	HOLLOW MTL.	PAINTED	B				1 HR.	10	
001B	CLOSET (ROBING + STORAGE)	3'-0"	6'-8"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	04	
001C	CLOSET (ROBING + STORAGE)	PAIR @ 3'-0" EA.	6'-8"	WOOD	STAINED	1 1	ALUM.	ALUM.	A				NOT RATED		
001D	CLOSET (ROBING + STORAGE)	3'-0"	6'-8"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	06	
002A	BASEMENT BACK OF THE HOUSE	3'-0"	6'-8"	WOOD	PAINTED	1	HOLLOW MTL.	PAINTED	B				NOT RATED	03	
003A	BASEMENT BACK OF THE HOUSE	3'-0"	6'-8"	WOOD	PAINTED	1	HOLLOW MTL.	PAINTED	B				NOT RATED	03	
005A	BASEMENT BACK OF THE HOUSE	3'-0"	6'-8"	WOOD	PAINTED	1	HOLLOW MTL.	PAINTED	B				NOTE RATED	03	
101A	FRONT ENTRANCE / MEANS OF EGRESS	PAIR @ 3'-0" EA.	8'-0"	ALUM. / GLASS	ALUM. / GLASS	22	ALUM.	ALUM.	D				NOT RATED	08	
101B	MEANS OF EGRESS / FROSTED GLAZING	PAIR @ 3'-0" EA.	8'-0"	ALUM. / GLASS	ALUM. / GLASS	22	ALUM.	ALUM.	C				NOT RATED	01	
102A	RESTROOM (WOMEN)	3'-0"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	05	
103A	RESTROOM (MEN)	2'-8"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	05	
104A	EGRESS STAIR	3'-0"	7'-0"	WOOD	STAINED	1	HOLLOW MTL.	PAINTED	B				1 HR.	02	
104B	JANITORS CLOSET	2'-4"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	03	
105A	SINGLE DOOR TO SANCTUARY	3'-0"	8'-0"	WOOD	PAINTED	1	ALUM.	ALUM.	A				NOT RATED	04B	
107B	BATHROOM	3'-0"	6'-8"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	05	
108A	OFFICE	3'-0"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	06	
108C	CLOSET	2'-6"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	04	
108A	EXTERIOR DOOR / MEANS OF EGRESS	3'-0"	7'-0"	HOLLOW MTL.	PAINTED	1	HOLLOW MTL.	PAINTED	B				NOT RATED	07	
110A	OFFICE	3'-0"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	06	
112A	OFFICE	3'-0"	8'-0"	ALUM. / GLASS	ALUM. / GLASS	1	ALUM.	ALUM.	E				NOT RATED	06B	
112B	CLOSET	3'-0"	7'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	04C	
112C	AUDIO VISUAL CLOSET					4									
114A	FELLOWSHIP HALL	3'-0"	8'-0"	WOOD	STAINED	1	ALUM.	ALUM.	A				NOT RATED	04D	
115B	COMMERCIAL KITCHEN	3'-0"	7'-0"	S.STL. / GLASS	S.STL. / GLASS	3	S.STL.	S.STL.	F				NOT RATED	09	



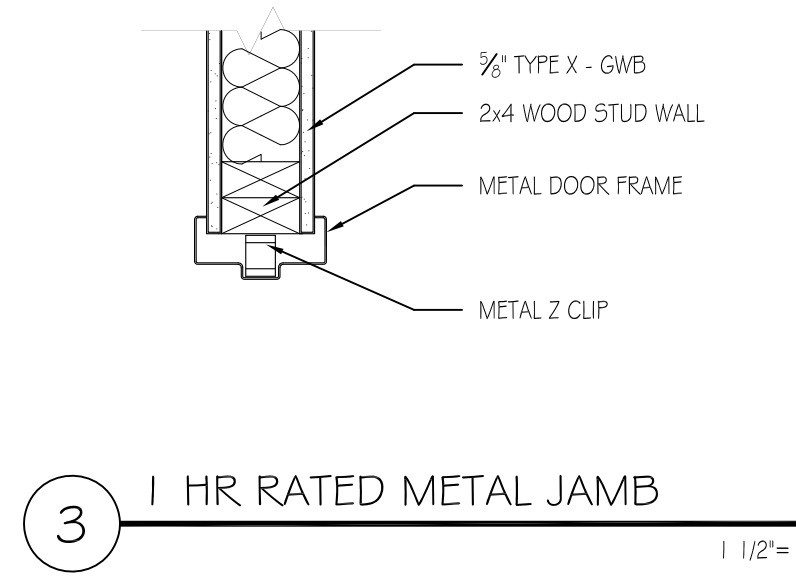
6 DOOR ELEVATION 1/4"=1'-0"



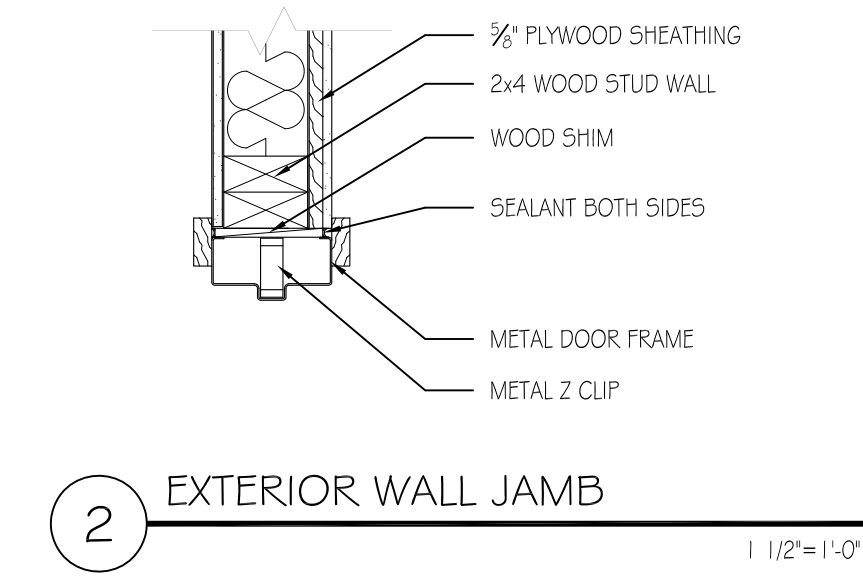
5 FRAME ELEVATION 1/4"=1'-0"



4 NON-RATED METAL JAMB 1/12"=1'-0"



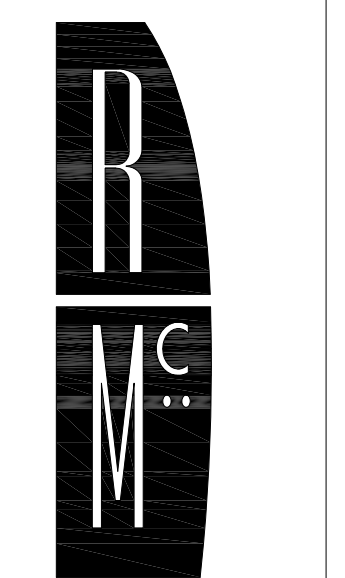
3 1 HR RATED METAL JAMB 1/12"=1'-0"



2 EXTERIOR WALL JAMB 1/12"=1'-0"



1 EXTERIOR STOREFRONT JAMB 1/12"=1'-0"



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Project Number:
 2010-4318

Revisions:
 No. Date

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 CONSTRUCTION
 DOCUMENTS

Issue Date:
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NOT FOR CONSTRUCTION



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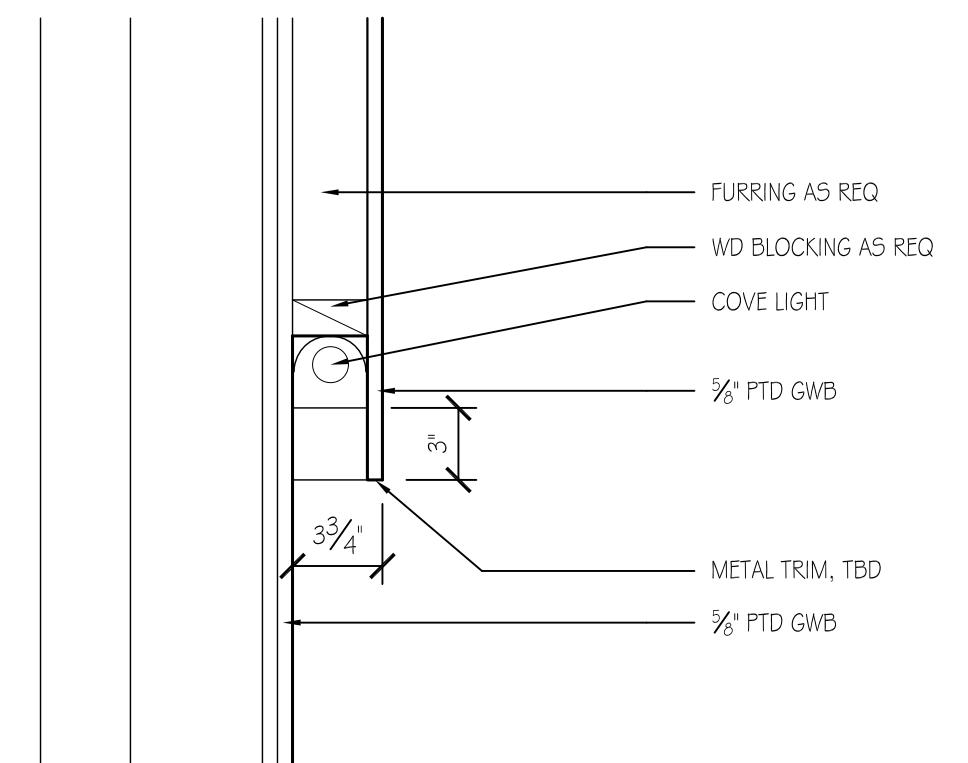
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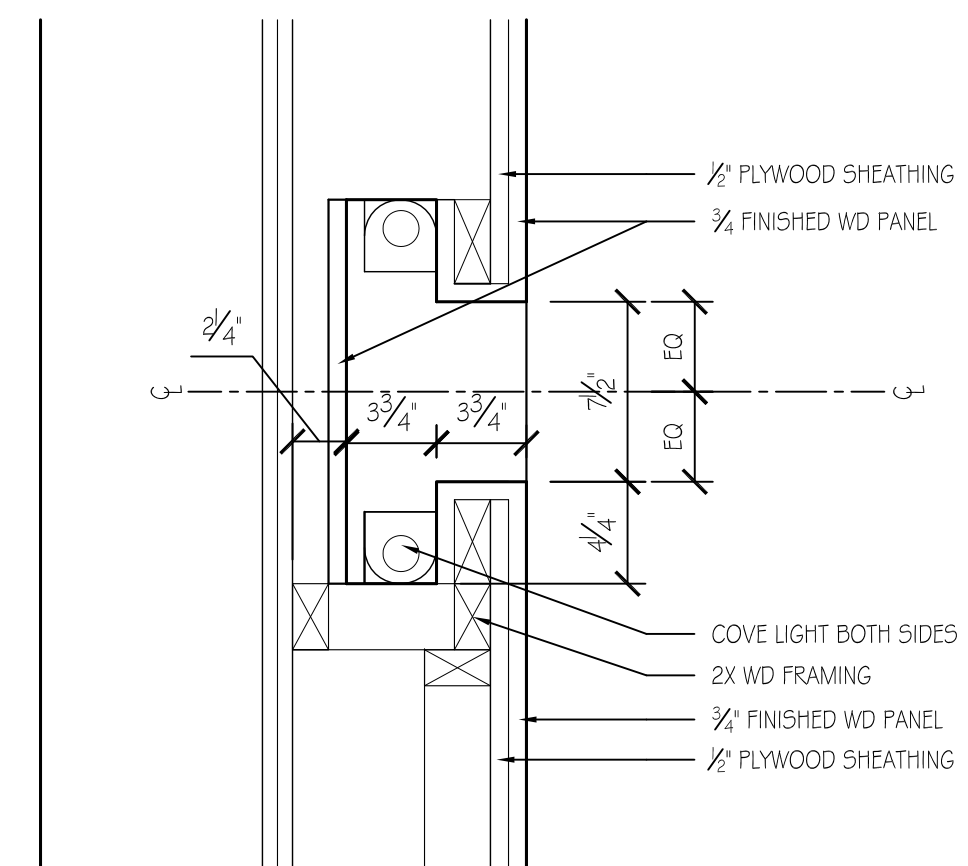
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INTERIOR DETAILS

Sheet Number:

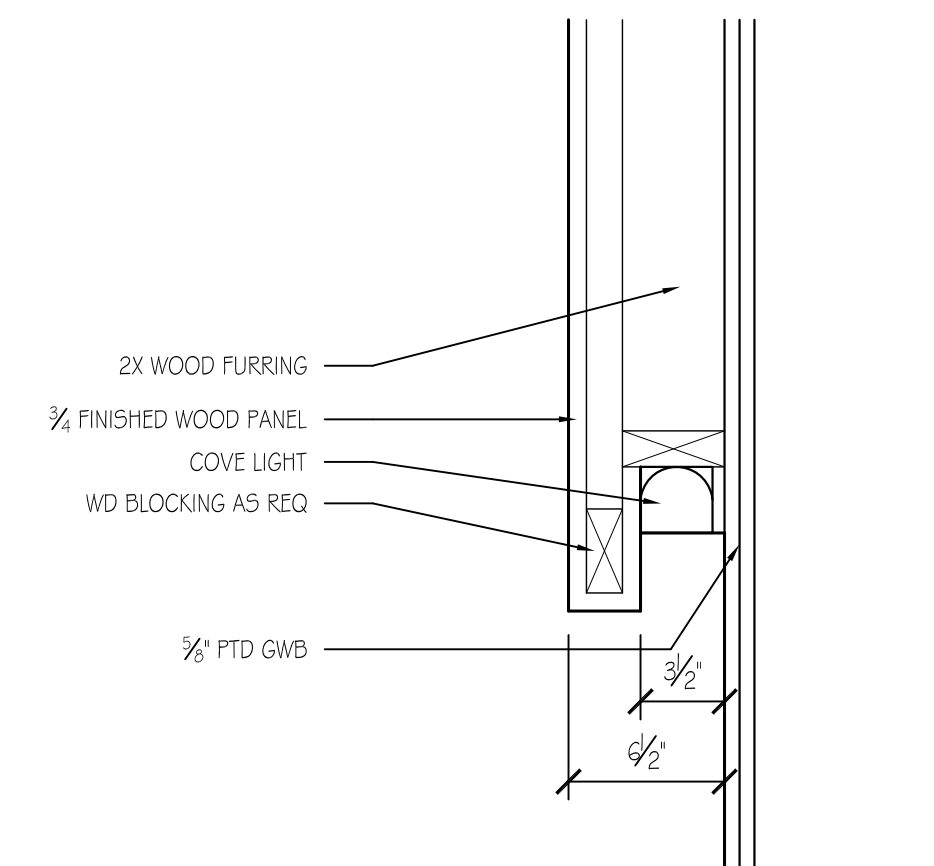
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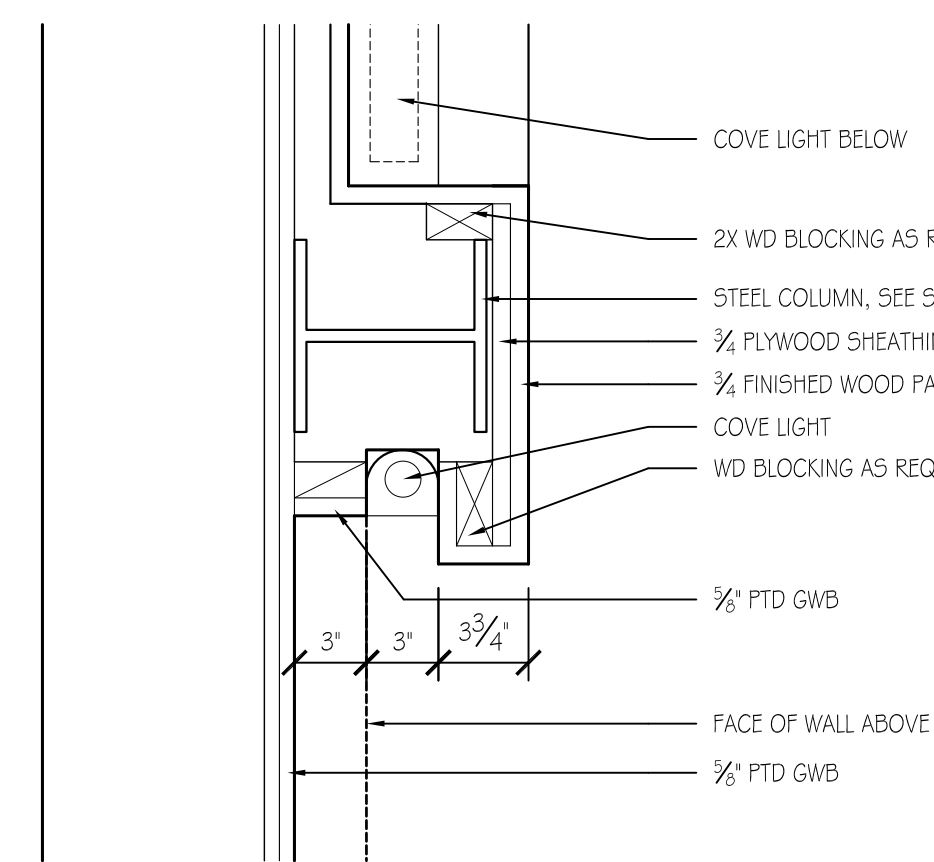
5 SECTION THROUGH COVE LIGHT
1 1/2"=1'-0"



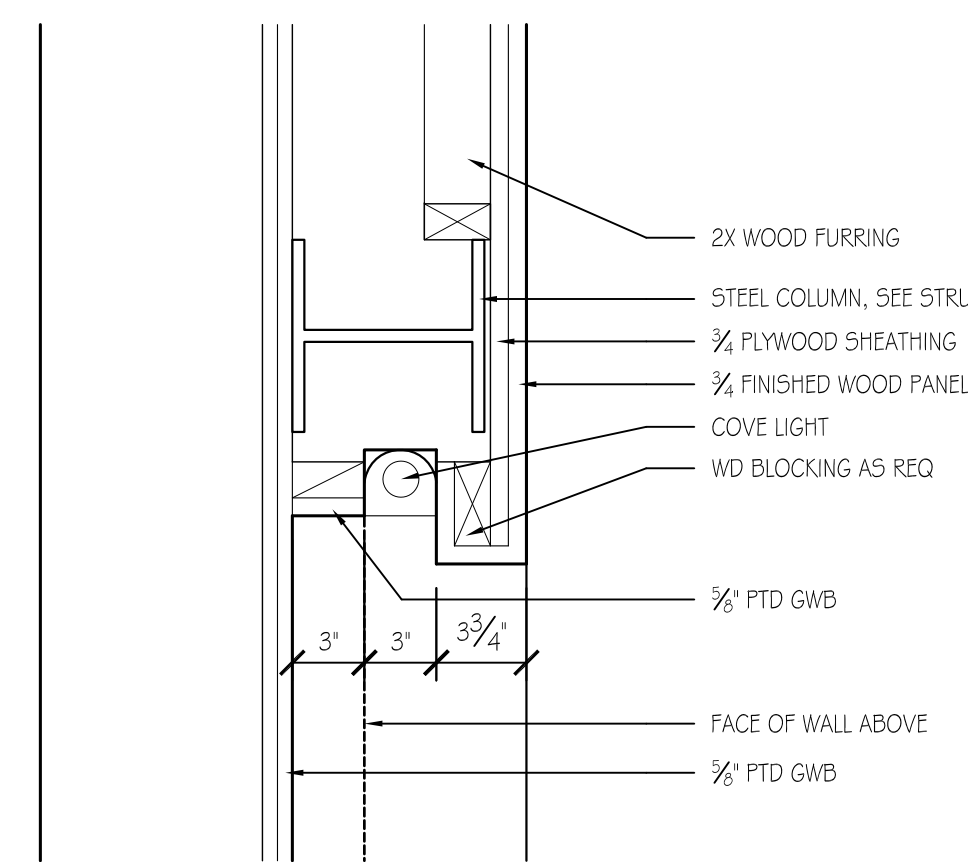
3 ALTAR PANEL DETAIL
1 1/2"=1'-0"



4 FELLOWSHIP HALL PANEL PLAN DETAIL
1 1/2"=1'-0"



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



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

MAJOR CODES & STANDARDS

- 1. INTERNATIONAL BUILDING CODE (IBC) 2006 AND LOCAL PROJECT JURISDICTION DESIGN CRITERIA.
- 2. ASCE ASCE 7-05
- 3. AISC AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION
- 4. ACI 318 CURRENT EDITION
- 5. AWS CURRENT EDITION
- 6. ASTM CURRENT EDITION
- 7. UL CURRENT EDITION
- 8. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2005

GENERAL

- 1. THESE NOTES SERVE AS THE SPECIFICATIONS FOR THE WORK.
- 2. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES.
- 3. REFER TO THE TABLE ON SHEET S-003 FOR DESIGN LOADS AND FACTORS AND SPECIAL INSPECTIONS REQUIRED FOR THE PROJECT.
- 4. FIELD DIMENSIONS: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ACCURATELY LOCATE STRUCTURAL ELEMENTS TO COORDINATE RELATED WORK.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MATERIALS, SCHEDULE AND DIMENSIONS BETWEEN TRADES.
- 6. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY DIMENSIONAL DISCREPANCIES IN THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- 7. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BULKHEADS AS NECESSARY TO SUPPORT AND PROTECT THE EXISTING STRUCTURE DURING THE COURSE OF THE WORK.
- 8. CONTRACTOR SHALL SUBMIT SCHEDULE AND PLAN OF OPERATION TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- 9. FOR LOCATIONS AND SIZE OF SLEEVES, CONDUITS, AND OTHER MINOR OPENINGS, SEE OTHER DESIGN DISCIPLINE DRAWINGS IN THIS PROJECT.
- 10. SECTIONS AND DETAILS SHOWN, WHILE DRAWN FOR SPECIFIC LOCATIONS, ARE INTENDED TO ESTABLISH THE GENERAL TYPES OF DETAILS TO BE USED THROUGHOUT, AND INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR.
- 11. THE ENGINEER'S REVIEW OF A SHOP DRAWING SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO FOLLOW THE INTENT OF THE CONTRACT DRAWINGS, UNLESS A WRITTEN REQUEST FOR THE CHANGE HAS BEEN SUBMITTED AND APPROVED.
- 12. CONTRACTOR SHALL USE ARCHITECTURAL AND MECHANICAL DRAWINGS IN CONJUNCTION WITH THE STRUCTURAL SET TO PROPERLY PERFORM THE WORK.
- 13. STRUCTURAL STABILITY IS ACHIEVED IN THE FINISHED CONSTRUCTION INSTALLED IN ENTIRETY. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINISHED STATE.
- 14. LOADINGS OF MECHANICAL ROOMS AND EQUIPMENT ARE BASED ON WEIGHTS OF ASSUMED EQUIPMENT, IN ADDITION TO WEIGHTS OF CONCRETE PADS WHERE INDICATED ON STRUCTURAL DRAWINGS, BUT NOT LESS THAN THE LOADS LISTED IN LIVE LOADS. CONTRACTOR SHALL REPORT ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT TO ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO ANY ACTION.
- 15. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATORY EQUIPMENT, U.O.N. PLACE VIBRATORY EQUIPMENT ON VIBRATION ISOLATORS.
- 16. TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. TYP DETAILS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTOR SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS. DETAILS THAT CONVEY SPECIFIC COMPONENT INFORMATION ESTABLISH MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO CONVEY COMPLETED DESIGN.

CONTRACTOR RESPONSIBILITIES AND COORDINATION:

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
- 2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UON. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
- 3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS, STRUCTURES AND ASSEMBLIES, AS NECESSARY TO COMPLETE THE PROJECT. ANY DESIGN TEAM REVIEW IS STRICTLY FOR LOADS IMPARTED ON THE STRUCTURE. NO PORTION OF THE PROJECT, WHILE UNDER CONSTRUCTION, IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY BRACES AND SUPPORTS. CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION TO DESIGN ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.
- 9. CONTRACTOR SHALL PROVIDE AN ENGINEERED SHEETING AND SHORING DESIGN FOR EXCAVATION ADJACENT TO EXISTING STRUCTURES, AND SHALL PROVIDE MONITORING TO VERIFY THAT THE ADJACENT STRUCTURE DOES NOT MOVE DURING THIS PROCESS.
- 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BY MEASUREMENTS AND SURVEYS AT THE JOB SITE, PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION OF STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY CONFORMANCE WITH THE DRAWINGS AND TO PERFORM THE WORK PROPERLY.
- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK, DURING CONSTRUCTION, WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS, AS WELL AS ANY OTHER DISCIPLINES AND APPLICABLE TRADES. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL WORK AND WORK RELATED TO OTHER TRADES, THE CONTRACTOR SHALL MAKE ALLOWANCES IN HIS BID FOR THE MORE SEVERE REQUIREMENTS.
- 12. ALL FIELDWORK SHALL BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.

- 13. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
- 8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS OR ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. DO NOT ASSUME THAT EITHER THE DRAWINGS OR SPECIFICATIONS TAKE PRECEDENCE, UNLESS NOTED WITHIN THE PROVISIONS OF THE GENERAL CONDITIONS.
- 9. ALL WORK NECESSARY TO SUPPORT ELEMENTS OF THE PERMANENT CONSTRUCTION THAT ARE NOT SELF-SUPPORTING AND ARE NOT PART OF THE BASE BUILDING STRUCTURE SHALL BE PROVIDED BY THE CONTRACTOR. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO: ALL FINISHES, GLAZING, CEILINGS, PARTITIONS, EQUIPMENT, PIPING, DUCTWORK, CONDUITS, ETC. SUPPORT WILL INCLUDE, BUT NOT LIMITED TO: MISCELLANEOUS FRAMING, HANGERS, BRACES, ANCHORS, CONNECTIONS, AND THE SUPPRT THEREOF ATTACHED TO STRUCTURAL ELEMENTS, UNLESS SPECIFICALLY INDICATED OTHERWISE. DESIGN OF SUPPORTING MEMBERS, INCLUDING ALL ANCHORS, SHALL BE PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION, AND SHALL BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER ALONG WITH THE ELEMENTS BEING SUPPORTED.

- 10. PRINCIPAL OPENING SIZES AND LOCATIONS ARE INDICATED ON THE DRAWINGS. ADDITIONAL SMALLER OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE CRITERIA INDICATED IN THE STRUCTURAL DOCUMENTS.

PERFORMANCE ITEMS:

- 1. EMPLOY OR RETAIN A LICENSED STRUCTURAL ENGINEER IN THE STATE OF MARYLAND TO DESIGN AND DETAIL THE FOLLOWING PERFORMANCE SPECIFIED STRUCTURAL COMPONENTS: CONCRETE MIX DESIGN STRUCTURAL STEEL CONNECTIONS
- 2. TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. TYPICAL DETAILS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTOR SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SOURCES OF SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGN OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS. DETAILS THAT CONVEY SPECIFIC COMPONENT INFORMATION ESTABLISH MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO CONVEY COMPLETED DESIGN.

SUBMITTALS

- 1. PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR ARCHITECT AND STRUCTURAL ENGINEER REVIEW A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR PRIOR TO FINALIZING SCHEDULE. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE STRUCTURAL ENGINEER. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE STRUCTURAL ENGINEER WILL HAVE TEN WORK DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWING AND WILL INTEND ON RETURNING THE SHOP DRAWINGS WITHIN TO TEN DAYS.
- 2. THE CONTRACTOR IS TO REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR IS TO STAMP EACH SUBMITTAL VERIFYING THE FOLLOWING IS ADDRESSED:
 - A. THE SHOP DRAWING IS BASED ON THE LATEST DESIGN DOCUMENTS AND CONFORMS TO THE REQUIREMENTS OF THE DOCUMENTS.
 - B. DESIGN TEAM COMMENTS FROM ANY PREVIOUS SUBMITTALS MARK UPS ARE ADDRESSED.
 - C. THE WORK IS COORDINATED AMONG CONSTRUCTION TRADES.
 - D. REVISED SUBMISSION OF PREVIOUS SUBMITTALS ARE CLEARLY MARKED BY CLOUDING MODIFICATIONS.
 - E. WHERE ITEMS ARE PERFORMANCE SPECIFIED AND REQUIRED TO BE DESIGNED BY CONTRACTOR, ACCOMPANYING CALCULATIONS ARE INCLUDED WITH SHOP DRAWINGS AND ARE SIGNED AND SEALED BY THE CONTRACTOR'S PROFESSIONAL STRUCTURAL ENGINEER.
 - F. SUBMITTAL IS COMPLETE OR IF INCOMPLETE DOCUMENTS ARE NOTED WITH WHAT ADDITIONAL INFORMATION WILL BE FORTHCOMING.

THE STRUCTURAL ENGINEER SHALL RETURN SUBMITTALS MARKED AS REVISE AND RESUBMIT, WHICH THE CONTRACTOR HAS NOT MET THE ABOVE REQUIREMENTS. THE STRUCTURAL ENGINEER'S REVIEW OF SUBMITTALS ARE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW.

- 3. FOR COMPONENTS THAT REQUIRE ENGINEERING BY THE SUPPLIER, PROVIDE A NOTE ON EACH SHOP DRAWING, WRITTEN AND SIGNED BY THE SUPPLIER'S ENGINEER, INDICATING THAT THE SHOP DRAWING IS IN CONFORMANCE WITH THE CALCULATIONS OF THE SUPPLIER'S ENGINEER. SUBMITTAL TO BE SIGNED AND SEALED BY SUPPLIER'S ENGINEER. CALCULATIONS SHALL BE PROVIDED AS REQUESTED BY ENGINEER OF RECORD.
- 4. FOR ALL PRODUCTS SUBMITTED AS "EQUIVALENT" TO SPECIFIED PRODUCT, CONTRACTOR SHALL PROVIDE ALL NECESSARY DOCUMENTATION INDICATING SUPPLIED PRODUCT IS EQUIVALENT OR BETTER AND MEETS THE DESIGN INTENT.
- 5. THE FOLLOWING ITEMS REQUIRE SUBMITTALS FOR STRUCTURAL REVIEW AS OUTLINED IN THE PROJECT DOCUMENTS:
 - CONCRETE REINFORCING LAYOUT
 - CONCRETE MIX DESIGNS
 - STRUCTURAL STEEL
 - STRUCTURAL STEEL CONNECTIONS

TESTING AND INSPECTION

- 1. THE FOLLOWING STRUCTURAL ITEMS REQUIRE TESTING AND/OR INSPECTIONS AS OUTLINED IN THE NOTES AND SPECIAL INSPECTION PROGRAM:
 - CONCRETE REINFORCEMENT
 - EXPANSION AND ADHESIVE ANCHORS
 - CAST-IN-PLACE CONCRETE
 - STRUCTURAL STEEL MATERIALS, WELDS, AND CONNECTIONS
- 2. CONTRACTOR SHALL HIRE INDEPENDENT TESTING AGENCY, IF NOT PROVIDED BY OWNER, TO PERFORM QUALITY CONTROL INSPECTION AND REVIEW OF STRUCTURAL COMPONENTS. CONTRACTOR TO COORDINATE WORK WITH TESTING AGENCY. TESTING AGENCY SHALL PROVIDE WRITTEN REPORTS FOR DESIGN TEAM REVIEW AND STRUCTURAL DEFICIENCIES SHALL BE REPORTED IMMEDIATELY TO THE DESIGN TEAM.

FOUNDATIONS:

- 1. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3,000 PSF BASED ON A SUBSURFACE EXPLORATION PROGRAM CONDUCTED BY KIM ENGINEERING, INC. AND DESCRIBED IN A REPORT DATED DECEMBER 21, 2010, BEARING ON FIRM, APPROVED SILT OF STRATUM B. CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN FOOTINGS ARE OPENED BEFORE PLACING ANY NEW FOUNDATIONS.
- 2. GEOTECHNICAL ENGINEER SHALL INSPECT AND REPORT ON ADEQUACY OF BEARING MATERIAL; VERIFY EXISTING BEARING CAPACITIES MEET OR EXCEED THE DESIGN VALUES; ENGINEERED FILL IS INSTALLED PER RECOMMENDATIONS; AND INSTALLATION OF FOUNDATIONS AND SLAB ON GRADE IS AS RECOMMENDED IN THE REPORT.
- 3. FOOTINGS SHOULD BE CAST ON THE SAME DAY IN WHICH THE EXCAVATION FOR THEM IS COMPLETED. IF PLACING CONCRETE IS DELAYED, FOOTING BOTTOM SHALL BE TRIMMED TO FIRM MATERIAL IMMEDIATELY BEFORE CASTING.
- 4. WHERE PIPES PASS UNDER WALL FOOTINGS, EXCAVATION BELOW BOTTOM OF FOOTING SHALL BE TEMPORARILY SHORED AND BACKFILLED WITH CONCRETE AND DRY-PACKED TIGHT.
- 5. FOOTINGS SHALL BE FORMED UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
- 6. REFER TO SPECIFICATIONS AND ARCHITECTURAL DWGS FOR WATERPROOFING DETAILS AND PROCEDURES.
- 7. BACKFILLING:
 - A. BEFORE BACKFILLING WALLS, GROUT AND/OR CONCRETE SHALL HAVE ATTAINED DESIGN STRENGTH.
 - B. BACKFILL SHALL BE CARRIED UP EVENLY ON BOTH SIDES OF WALL TO LOWER GRADE.
 - C. BACKFILL SHALL BE PLACED IN MAXIMUM OF 12" LOOSE LIFT THICKNESS AND COMPACTED TO 95% OF STANDARD PROCTOR.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND SAFE DESIGN AND INSTALLATION OF ALL SHEETING AND SHORING EXCAVATION SUPPORT SYSTEMS.
- 9. CONTRACTOR SHALL PROVIDE AN ENGINEERED SHEETING AND SHORING DESIGN FOR EXCAVATION ADJACENT TO EXISTING STRUCTURES, AND SHALL PROVIDE MONITORING TO VERIFY THAT THE ADJACENT STRUCTURE DOES NOT MOVE DURING THIS PROCESS.

WATER CONTROL DURING CONSTRUCTION:

- 1. CONCRETE SHALL BE PLACED IN DRY EXCAVATIONS. CONTRACTOR SHALL NOTE SOIL AND WATER CONDITIONS AS SHOWN BY TEST PITS AND FOOTING DEPTHS AS SHOWN ON FOUNDATION PLANS.
- 2. CONTRACTOR SHALL SUBMIT PLAN FOR DEWATERING TO THE ARCHITECT FOR REVIEW. IF REQUIRED, CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A SERIES OF DITCHES AND SUMPS TO REMOVE GROUND WATER FROM THE WORKING AREA.
- 3. PUMPED WATER SHALL BE DISCHARGED WHERE SHOWN ON PLANS.
- 4. GRADING SHALL BE SUCH THAT THE SURFACE WATER IS DIVERTED AWAY FROM EXCAVATIONS.

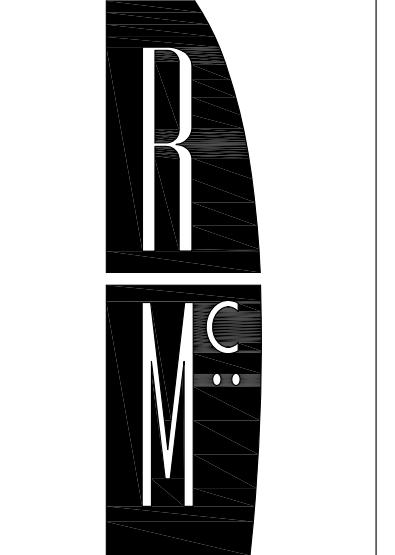
REINFORCED CONCRETE

- 1. CONCRETE CONSTRUCTION SHALL FOLLOW REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE". CONCRETE MATERIALS, REINFORCING, PLACEMENT, FORM WORK, ETC. SHALL BE INSPECTED IN ACCORDANCE WITH IBC.
- 2. REINFORCING FOR CONCRETE SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE PROVISIONS SET FORTH BY THE AMERICAN CONCRETE INSTITUTE AND THE CRSI "MANUAL OF STANDARD PRACTICE."
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 4. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED WITH CURED DENSITY OF 145 PCF AND AGGREGATE CONFORMING TO ASTM C33, COMPRESSIVE STRENGTH (f'c) 3,000 PSI AT 28 DAYS.
- 5. CONCRETE SHALL CONTAIN A MINIMUM OF 5 1/2 BAGS OF CEMENT PER CUBIC YARD. PORTLAND CEMENT TO BE MINIMUM OF 75% OF TOTAL WEIGHT OF CEMENTIOUS MATERIAL.
- 6. ALL CONCRETE SHALL BE PLACES WITH A SLUMP OF 4" ±1/2" EXCEPT THAT CONCRETE CONTAINING HRWR (SUPER PLASTICIZER) SHALL NOT EXCEED 7". ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE 6% AIR ENTRAINMENT AND A MAXIMUM WATER TO CEMENT RATIO OF 0.40.
- 7. CLEAR COVER FOR REINFORCING TO BE PER ACI 318 UON.
- 8. REINFORCEMENT NOT SHOWN ON SECTIONS AND PLANS IS THE SAME AS THAT SHOWN IN SIMILAR SECTIONS AT SIMILAR LOCATIONS, THAT ARE SIMILAR CIRCUMSTANCES.
- 9. BETWEEN ALL SEPARATE CONCRETE POURS, PROVIDE DOWELS EQUAL IN SIZE AND NUMBER TO BARS IN THE DOWELED MEMBER.
- 10. WALL INTERSECTIONS: PROVIDE CORNER BARS EQUAL IN SIZE AND SPACING TO NORMAL WALL STEEL.
- 11. PROVIDE SHOP DRAWINGS SHOWING FULL INFORMATION FOR STEEL PLACEMENT. REINFORCING STEEL DETAILER SHALL DEVELOP ALL WALL ELEVATIONS AND SECTIONS WITH PERTINENT ELEVATIONS GIVEN, TO CLEARLY INDICATE THE POSITION OF THE REINFORCEMENT AND CONSTRUCTION JOINTS, WITHOUT REPRODUCING SECTIONS, PLANS, OR ELEVATIONS FROM THE DESIGN DRAWINGS.
- 12. SLAB ON GRADE:
 - A. UNLESS OTHERWISE NOTED, SLAB ON GRADE SHALL BE REINFORCED WITH 6X6, W2.0 X W2.0, LAPPED 6" ON ALL SIDES, SET 2" BELOW TOP OF SLAB, UNLESS NOTED OTHERWISE ON PLANS.
 - B. UNLESS OTHERWISE NOTED, CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE KEYS AND MESH OR DOWELS SHALL PASS THROUGH THE JOINT.
- 13. ADHESIVE ANCHORS IN CONCRETE SHALL BE ¾" DIA, UON. DRILL AND SET ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 14. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATION OF EQUIPMENT PADS, CURBS, AND OTHER CONCRETE INFORMATION NOT SHOWN.
- 15. REFER TO ACI301 FOR TESTING REQUIREMENTS.
- 16. NO CONDUITS, UTILITIES, OR FLOOR BOXES ARE TO BE CAST/EMBEDDED IN REINFORCED CONCRETE SLABS, INCLUDING CONCRETE ON METAL DECKING, UNLESS REVIEWED AND APPROVED BY STRUCTURAL ENGINEER OR SHOWN IN STRUCTURAL DRAWINGS. CONDUIT AND CONCRETE IS PROHIBITED.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. MATERIALS, ERECTION, CONNECTIONS, ETC. SHALL BE INSPECTED IN ACCORDANCE WITH IBC.
- 2. STRUCTURAL STEEL DESIGN IS BASED ON ALLOWABLE STRESS DESIGN (ASD) METHODOLOGY, ALL LOADS SHOWN ON DRAWINGS ARE UNFACTORED (SERVICE) LOADS, U.N.O.
- 3. THE STRUCTURAL STEEL DETAILER SHALL DEVELOP ALL ELEVATIONS, PLANS, AND SECTIONS WITHOUT REPRODUCING SAME FROM THE DESIGN DRAWINGS. DETAILER SHALL USE THE SAME SECTIONS AND MARKS AS SHOWN ON THE DESIGN DRAWINGS OR ADEQUATELY CROSS REFERENCE TO THE SATISFACTION OF THE ENGINEER.
- 4. MATERIALS SHALL CONFORM TO THE FOLLOWING:

BARS, RODS AND PLATES	ASTM A36
W-SHAPES	ASTM A992
ALL OTHER STRUCTURAL SHAPES	ASTM A36
PIPES	ASTM A53, GRADE B
HOLLOW STRUCTURAL SECTIONS	ASTM A500, GRADE B
HIGH STRENGTH BOLTS	ASTM A325
ANCHOR RODS	ASTM A1554
WELDING ELECTRODES	AWS A5.1 E70XX
ALL OTHER STRUCTURAL SHAPES	ASTM A36
- 5. CONNECTIONS
 - A. ALL CONNECTIONS FOR NEW STEEL WORK TO BE STANDARD A.I.S.C. CONNECTIONS USING 3/4" DIA. HIGH-STRENGTH BEARING TYPE N BOLTS. PROVIDE SLIP CRITICAL CONNECTIONS WHERE INDICATED ON DRAWINGS.
 - B. MINIMUM SHEAR CONNECTION DEPTH SHALL BE HALF THE BEAM DEPTH, TWO BOLT MINIMUM.
 - C. MIN WELD SIZE SHALL BE IN ACCORDANCE WITH AISC. 1/4" FILLET UNLESS NOTED OTHERWISE.
 - D. STRUCTURAL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
 - E. ALL CONNECTIONS, UNLESS INDICATED AS BEING FULLY DESIGNED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
 - F. SEE PLANS AND DETAILS FOR CONNECTION DESIGN FORCES. UNLESS NOTED OR DETAILED ALL BEAM CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS. WHERE NO REACTION IS PROVIDED THE BEAM SHALL BE ASSUMED TO CARRY A MINIMUM OF 120% OF ALLOWABLE UNIFORM LOAD IN KIPS FOR BEAMS LATERALLY SUPPORTED AS GIVEN IN THE AISC STEEL CONSTRUCTION MANUAL.
 - G. ALL WELDED OR BOLTED CONNECTIONS SHALL HAVE A MINIMUM UNFACTORED SHEAR CAPACITY OF 10 KIPS MIN UON.
 - H. ALL BOLTS SHALL BE SNUG TIGHT UNLESS SPECIFICALLY NOTED OTHERWISE. BOLTING FOR STRUCTURAL STEEL SHALL CONFORM TO THE PROVISIONS OF THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
 - I. ALL BOLTS, NUTS, WASHERS AND RELATED HARDWARE FOR EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
- 6. STEEL FRAMING SHALL BE PROPERLY BRACED UNTIL AFTER FINAL CONNECTIONS ARE MADE.
- 7. STEEL FRAME SHALL BE PROPERLY ALIGNED AND PLUMBED WITHIN AISC TOLERANCES BEFORE PROCEEDING WITH FINAL CONNECTIONS.
- 8. ANCHOR BOLTS SHALL BE FURNISHED COMPLETE WITH NUTS AND WASHERS.
- 9. PROVIDE 1/4" LEVELING PLATES UNDER ALL STEEL COLUMNS, UNLESS OTHERWISE NOTED.
- 10. BASE PLATES SHALL BE SHOP WELDED TO COLUMNS AND POSTS.
- 11. ALL CAP PLATES SHALL MATCH THICKNESS OF BEAM FLANGE ABOVE (1/2" MINIMUM) FOR BEAMS BEARING ON COLUMNS AND POSTS.
- 12. UNLESS OTHERWISE NOTED, ALL TUBULAR (PIPE) COLUMNS SHALL BE CAPPED W 1/4" PLATE.
- 13. FIELD CUTTING OR BURNING AND FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED EXCEPT WITH THE EXPRESS APPROVAL OF THE ENGINEER.
- 14. GALVANIZING FOR EXTERIOR EXPOSED STEEL SHALL CONFORM TO ASTM A-123. REPAIR SCRATCHED OR ABRADED GALVANIZED METAL SURFACES WITH ZINC-RICH COATING. AFTER GALVANIZING, STRAIGHTEN MEMBERS TO MEET AISC STANDARD MILL TOLERANCES.



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General Notes

Sheet Number:

S001

STRUCTURAL DRAWING LIST	
SHEET NO.	DRAWING TITLE
S001	General Notes
S002	General Notes, Symbols and Abbreviations
S003	Special Inspections
S200	Foundation / Cellar Plan
S201	First Floor Framing / Foundation Plan
S201A	Site Plans and Details
S202	Roof Framing Plan
S300	Foundation Sections & Details
S301	Foundation Sections & Details
S302	Steel Framing Details
S303	Metal Deck & Wood Framing Details

SPECIAL INSPECTIONS PROGRAM

SECTION	ITEM	CONTINUOUS	PERIODIC	2006 IBC REFERENCE SECTION	REFERENCE STANDARD	COMMENTS
GENERAL	INSPECTIONS OF FABRICATORS		X	1704.1		SEE EXCEPTIONS (1704.2.2)
SOILS	VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	1704.1, 1802.3 1802.4, 1804		OBTAIN SOILS REPORT IF APPLICABLE
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	1805.2		do.
	CONTROLLED FILL		X	1802.3, 1803.5		do.
	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X		1704.7, 1803.5		do.
CONCRETE	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	1704.7, 1803.5		do.
	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	1704.7, 1803.5		do.
	PILE OR PIER FOUNDATION INSTALLATION	X		1704.8, 1704.9		do.
	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, & PLACEMENT		X	1913.4	ACI 318: 3.5, 7.1-7.7	
STEEL	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE w/ REQUIREMENTS BELOW				AWS D1.4 ACI 318: 3.5.2	
	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	X		1911.5		
	VERIFYING USE OF REQUIRED DESIGN MIX		X	1904.2.2, 1913.2, 1913.3	ACI 318: Ch. 4, 5.2-5.4	
	SAMPLING FRESH CONCRETE & PERFORMING SLUMP, AIR CONTENT & DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS	X		1913.1	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	
	INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		1913.6, 1913.7, 1913.8	ACI 318: 5.9, 5.10	
	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES		X	1913.9	ACI 318: 5.11-5.13	
	ERECTION OF PRECAST CONCRETE MEMBERS		X		ACI 318: Ch. 16	
	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS		X		ACI 318: 6.2	
	INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 6.1.1	
	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, & WASHERS		X		AISC 360, SECT A3.3	
	HIGH-STRENGTH BOLTING	BEARING-TYPE CONNECTION		X	1704.3.3	AISC 360, SECT M2.5
SLIP-CRITICAL CONNECTION		X	X	1704.3.3	AISC 360, SECT M2.5	
MATERIAL VERIFICATION OF STRUCTURAL STEEL	ID MARKINGS TO CONFORM TO ASTM STANDARDS			1708.4	ASTM A 6, OR ASTM A 568	
	MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED			1708.4	ASTM A 6, OR ASTM A 568	
MATERIAL VERIFICATION OF WELD FILLER	ID MARKINGS TO CONFORM TO AWS STANDARDS				AISC 360 SECT A3.5	
	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED					
SHOP WELDING	SHOP WELDER CERTIFICATION(S)					INSPECTOR TO OBTAIN COPY PRIOR TO START OF WORK
	SINGLE PASS FILLET < OR = 5/16"		X	1704.3.1	AWS D1.1	NOT REQUIRED IF APPROVED FABRICATOR
	FILLET WELDS > 5/16"	X		1704.3.1	AWS D1.1	
FIELD WELDING	PARTIAL/COMPLETE PENETRATION	X		1704.3.1	AWS D1.1	
	WELDER CERTIFICATION(S)					INSPECTOR TO OBTAIN COPY
	SINGLE PASS FILLET < OR = 5/16"		X	1704.3.1	AWS D1.1	ERECTION WELDER CERTIFICATION DOCUMENTS REQUIRED PRIOR TO START OF WORK ELSE CONTINUOUS INSPECTION
MOMENT RESISTING AND/OR BRACED FRAMES	FILLET WELDS > 5/16"	X		1704.3.1	AWS D1.1	do
	PARTIAL/COMPLETE PENETRATION	X		1704.3.1	AWS D1.1	
	REQUIRED 100% OF ALL WELDS TO BE ULTRASONIC OR RADIOGRAPHY TESTED	X		1704.2		
REBAR WELDING	VERIFICATION OF WELDABILITY OTHER THAN ASTM A 706		X		AWS D1.4 ACI 318: 3.5.2	
	REBAR RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE & SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, & SHEAR REINFORCEMENT	X			AWS D1.4 ACI 318: 3.5.2	
	SHEAR REINFORCEMENT	X			AWS D1.4, ACI 318: 3.5.2	
	OTHER REINFORCING STEEL		X		AWS D1.4, ACI 318: 3.5.2	
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE w/ CONSTRUCTION DOCUMENTS	DETAILS SUCH AS BRACING & STIFFENING		X	1704.3.2		
	MEMBER LOCATIONS		X	1704.3.2		
	APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X	1704.3.2		
FIREPROOFING	FIREPROOFING SPRAY APPLIED	X		1704.10		
WOOD	FABRICATION PROCESS OF PRE-FABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES		X	1704.6 1704.2	NDS	SEE EXCEPTIONS (1704.2.2)
	FABRICATION OF HIGH-LOAD DIAPHRAGMS		X	1704.6.1		SEE TABLE 2306.3.2
	VERIFY SHEATHING		X	1704.6.1		SEE TABLE 2306.3.2
	VERIFY NOMINAL SIZE OF FRAMING		X	1704.6.1		SEE TABLE 2306.3.2
	VERIFY NAIL OR STAPLE DIAMETER OR LENGTH		X	1704.6.1		SEE TABLE 2306.3.2
	VERIFY FASTENER SPACING		X	1704.6.1		SEE TABLE 2306.3.2

DESIGN LOADS AND FACTORS DESIGN CODE: IBC 2006

LIVE LOAD DATA		SNOW LOAD DATA		WIND LOAD DATA		EARTHQUAKE DESIGN DATA	
FLOOR OR ROOF AREA	LOAD (psf)	ROOF AREA	LOAD (psf)	FACTOR	VALUE	FACTOR	VALUE
FLOOR	100	SNOW LOAD (PF)	30	BASIC WIND SPEED (MPH, 3-5 GUST)	90	OCCUPANCY CATEGORY	III
				BASIC WIND EXPOSURE CATEGORY	B	SEISMIC SITE CLASS	D
				WIND IMPORTANCE (I)	1.15	ACCELERATION, SHORT PERIOD, S _s	0.160
ROOF LIVE	NOTE A					ACCELERATION, 1 SECOND, S ₁	0.051
						SITE COEFF., SHORT PERIOD, F _a	1.6
						SITE COEFF., 1 SECOND, F _v	2.4
						SEISMIC DESIGN CATEGORY	B
PARTITIONS							
LIVE LOAD REDUCTION APPLIED TO:		FACTOR	VALUE	SPECIAL WIND CONSIDERATIONS:		BASIC STRUCTURAL SYSTEM/SEISMIC RESISTING SYSTEM: MOMENT FRAME (R=3) OR PLYWOOD SHEAR WALL	
<input type="checkbox"/> COLUMNS		GROUND SNOW LD (P _g)	30	1. WIND COMP. & CLADDING SHALL BE CALCULATED PER CODE.		ANALYSIS PROCEDURE: 83 EQUIVALENT LATERAL FORCE	
<input type="checkbox"/> GIRDERS		SNOW EXPOSURE (C _e)	1.0	2. WIND UPLIFT ON ROOF SHALL BE CALCULATED PER CODE.		<input type="checkbox"/> MODAL ANALYSIS	
<input type="checkbox"/> BEAMS		SNOW IMPORTANCE (I)	1.1				
<input type="checkbox"/> 2-WAY SLABS							
SPECIAL LOADING: NOTE A: ROOF LIVE LOAD SHALL BE 30psf + SNOW DRIFT.		SPECIAL SNOW CONSIDERATIONS:					
<input type="checkbox"/> LIVE LOAD GOVERNS ROOF DESIGN		<input type="checkbox"/> GOVERNS ROOF DESIGN		<input checked="" type="checkbox"/> GOVERNS LATERAL DESIGN		<input type="checkbox"/> GOVERNS LATERAL DESIGN	

STRUCTURAL TESTING & INSPECTION PROGRAM NOTES:

- THE INTENTION OF THIS TABLE IS TO IDENTIFY THE CONSTRUCTION REQUIRING SPECIAL INSPECTION AS REQUIRED BY THE 2006 INTERNATIONAL BUILDING CODE (IBC). EACH SPECIAL INSPECTOR IS RESPONSIBLE FOR JOB SPECIFIC ITEMS AS DEFINED IN CHAPTER 17 OF THE IBC (AND IN ACCORDANCE WITH THE SPECIFICATIONS).
- THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION OF THE PROJECT SPECIFICATIONS AND THE GENERAL NOTES. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY CONSTRUCTION WHICH FAILS TO MEET THE PROJECT SPECIFICATIONS AND IBC REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND THE ENGINEER IF UNCORRECTED. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR SHALL BE ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT THE TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTIONS IS IN COMPLIANCE.
- ALL WELDS SHALL BE VISUALLY INSPECTED BY AN AWS CERTIFIED WELDING INSPECTOR.
- FABRICATOR, SUPPLIER, READY-MIXED PLANT OF OTHER PRODUCTION PLAN SHALL PROVIDE CERTIFICATES FROM AN APPROVED INDEPENDENT INSPECTION, TESTING OR QUALITY ASSURANCE AGENCY ATTESTING THAT THE PLAN MEETS AT LEAST ONE OF THE FOLLOWING CRITERIA:
 - THE PLANT IS A CERTIFIED PRODUCTION PLANT MEETING THE QUALITY ASSURANCE STANDARDS OF A RECOGNIZED NATIONAL STANDARDS ORGANIZATION FOR THAT PRODUCT.
 - THE PLANT MAINTAINS AN AGREEMENT WITH AN INDEPENDENT INSPECTION OR QUALITY ASSURANCE AGENCY TO CONDUCT PERIODIC IN-PLANT QUALITY ASSURANCE INSPECTIONS. THE FREQUENCY OF THESE INSPECTIONS SHALL NOT BE LESS THAN ONE EVERY SIX MONTHS.
 - THE PLANT HAS AN IN-SHOP QUALITY ASSURANCE INSPECTION PROGRAM BY AN INDEPENDENT TESTING OR QUALITY ASSURANCE AGENCY FOR THE WORK/PRODUCT TO BE PROVIDED ON THE PROJECT.
- THE A/E SHALL REVIEW FABRICATOR/SUPPLIER/PRODUCER CERTIFICATES FOR CONFORMANCE WITH APPROPRIATE STANDARDS OF PRACTICE AND QUALITY.
- CONTRACTOR/SUPPLIER SHALL SUBMIT MANUFACTURER'S CERTIFICATES FOR CONFORMANCE WITH APPROPRIATE STANDARDS OF PRACTICE AND QUALITY ASSURANCE.
- REVIEW RECORDS AND TEST RESULTS FOR CONFORMANCE WITH REQUIREMENTS.
- OBSERVES PLACEMENT AND ERECTION OF MATERIALS DURING JOBSITE VISITS.

REINFORCING DEVELOPMENT LENGTHS (INCHES)

BEAMS, FOOTINGS, & SLABS < 13" DEEP AND VERTICAL BARS IN WALLS

BAR SIZE	CONDITION	3000 psi CONCRETE	4000 psi CONCRETE
#3	DEV. LENGTH	17	15
	CLASS B SPLICE	22	19
#4	DEV. LENGTH	22	19
	CLASS B SPLICE	29	25
#5	DEV. LENGTH	28	24
	CLASS B SPLICE	36	31
#6	DEV. LENGTH	33	29
	CLASS B SPLICE	43	37
#7	DEV. LENGTH	48	42
	CLASS B SPLICE	63	54
#8	DEV. LENGTH	55	48
	CLASS B SPLICE	72	62
#9	DEV. LENGTH	62	54
	CLASS B SPLICE	81	70
#10	DEV. LENGTH	70	61
	CLASS B SPLICE	91	79
#11	DEV. LENGTH	78	67
	CLASS B SPLICE	101	87

BEAMS, FOOTINGS, & SLABS > 13" DEEP AND HORIZONTAL BARS IN WALLS

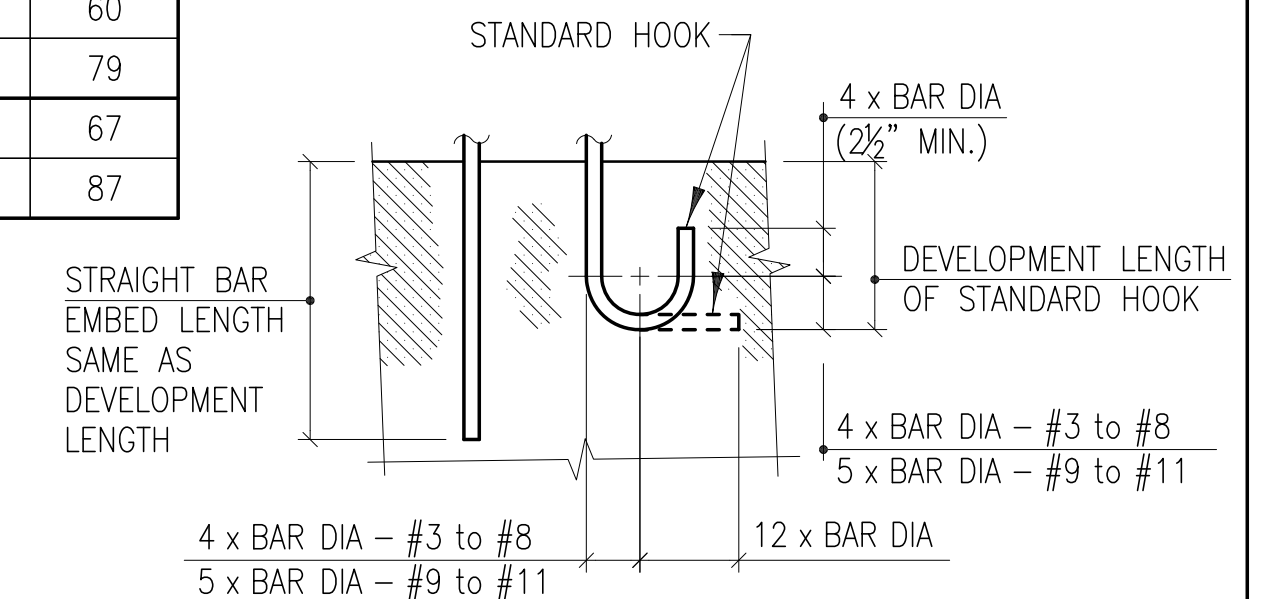
BAR SIZE	CONDITION	3000 psi CONCRETE		4000 psi CONCRETE	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	DEV. LENGTH	22	17	19	15
	CLASS B SPLICE	28	22	24	19
#4	DEV. LENGTH	29	22	25	19
	CLASS B SPLICE	37	29	32	25
#5	DEV. LENGTH	36	28	31	24
	CLASS B SPLICE	47	36	40	31
#6	DEV. LENGTH	43	33	37	29
	CLASS B SPLICE	56	43	48	37
#7	DEV. LENGTH	63	48	54	42
	CLASS B SPLICE	81	63	70	54
#8	DEV. LENGTH	72	55	62	47
	CLASS B SPLICE	93	72	80	62
#9	DEV. LENGTH	81	62	70	54
	CLASS B SPLICE	105	81	91	70
#10	DEV. LENGTH	91	70	79	60
	CLASS B SPLICE	118	91	102	79
#11	DEV. LENGTH	101	77	87	67
	CLASS B SPLICE	131	101	113	87

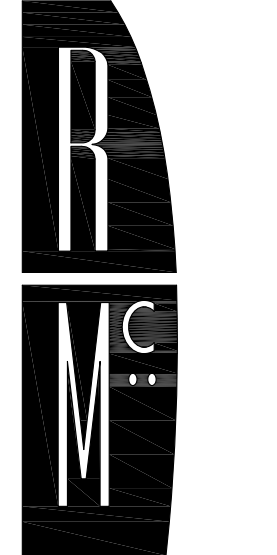
DEVELOPMENT LENGTH OF STANDARD HOOK

BAR SIZE	CONCRETE STRENGTH	
	3000 psi	4000 psi
#3	9	7
#4	11	10
#5	14	12
#6	17	15
#7	20	17
#8	22	19
#9	25	22
#10	28	24
#11	31	27

DEVELOPMENT LENGTH NOTES:

- SCHEDULE IS BASED ON GRADE 60, UNCOATED REINFORCING IN NORMAL WEIGHT CONCRETE.
- CONCRETE STRENGTH INDICATED IS 28-DAY COMPRESSIVE STRENGTH.
- ALL LAP SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE.
- CLASS A SPLICE IS THE SAME AS DEVELOPMENT LENGTH.
- WHEN BARS OF DIFFERENT SIZE ARE SPLICED, SPLICE LENGTH SHALL BE THE LARGER OF EITHER DEVELOPMENT LENGTH OF THE LARGER BAR OR SPLICE LENGTH OF THE SMALLER BAR.
- FOR HOOKED DOWELS IN FOOTINGS MEETING REQUIREMENTS OF ACI 318 12.5.3.a, THE HOOK LENGTH CAN BE 0.7 x TABLE VALUE.
- TOP BAR DESIGNATES HORIZONTAL BAR PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE BAR.





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**CAST-IN-PLACE CONCRETE
CLEAR COVER FOR REINFORCING**

TYPE	COVER
Footings	3"
Walls:	
Interior face	3/4"
Face permanently exposed to earth or weather	2"
Exterior Slab	1 1/2"
Interior Slab	3/4"
Interior Beams & Columns	1 1/2"

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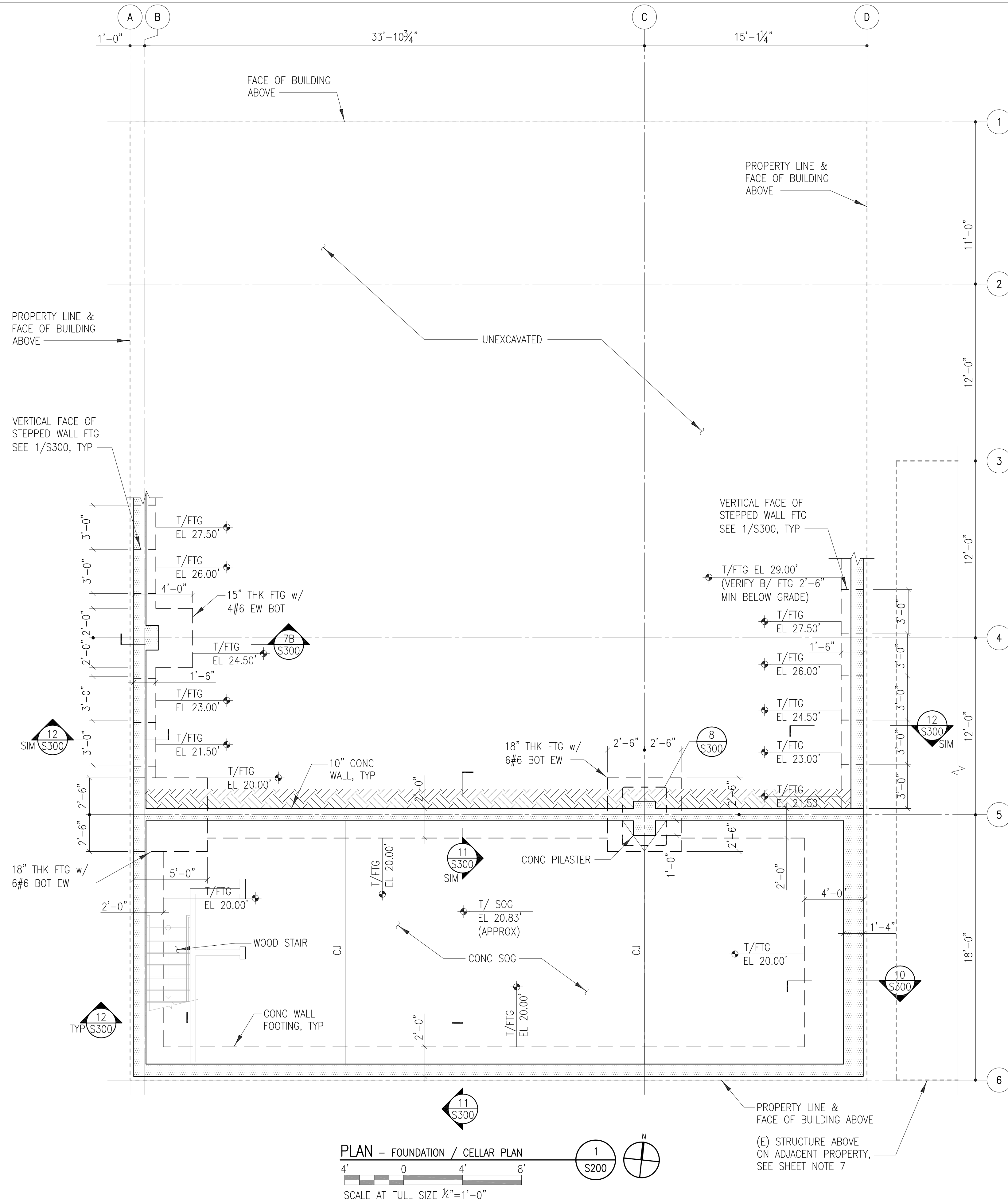
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Sheet Title:
Foundation / Cellar Plan

Sheet Number:

S200



PLAN - FOUNDATION / CELLAR PLAN
SCALE AT FULL SIZE 1/4"=1'-0"

- SHEET NOTES:
- SLAB ON GRADE SHALL BE 5" THICK (MIN) NORMAL WEIGHT CONCRETE WITH 6x6-W2.9xW2X9 WWM ON 6 MIL POLYETHYLENE VAPOR BARRIER OVER 6" CRUSHED STONE PER GEOTECH REPORT.
 - FOOTING EXCAVATIONS SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER TO BE CAPABLE OF SUPPORTING BEARING VALUES SPECIFIED IN GEOTECHNICAL REPORT.
 - BOTTOM OF EXTERIOR FOOTINGS SHALL BE PLACED AT ELEVATIONS NOTED OR SUCH THAT BOTTOM OF FOOTING IS 2'-6" MINIMUM BELOW FINISH GRADE, WHICHEVER IS DEEPER. FOOTING ELEVATIONS SHOWN AS (XX.XX') ARE BASED ON PROJECT ELEVATIONS, REFER TO ARCHITECTURAL DRAWINGS.
 - REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL DIMENSIONS, INFORMATION NOW SHOWN, AND TO COORDINATE STRUCTURE WORK.
 - SLAB ELEVATIONS ARE ESTIMATED BASED ON ARCHITECTURAL FINISHES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE CONTROL JOINT LAYOUT. INSTALL EXPANSION JOINT AT ALL SLAB ON GRADE TRANSITIONS BETWEEN INTERIOR AND EXTERIOR SPACE.
 - CONTRACTOR SHALL PROVIDE AN ENGINEERED SHEETING AND SHORING DESIGN FOR EXCAVATION ADJACENT TO EXISTING STRUCTURES, AND SHALL PROVIDE MONITORING TO VERIFY THAT THE ADJACENT STRUCTURE DOES NOT MOVE DURING THIS PROCESS. REFER TO GENERAL NOTES.



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No. Date

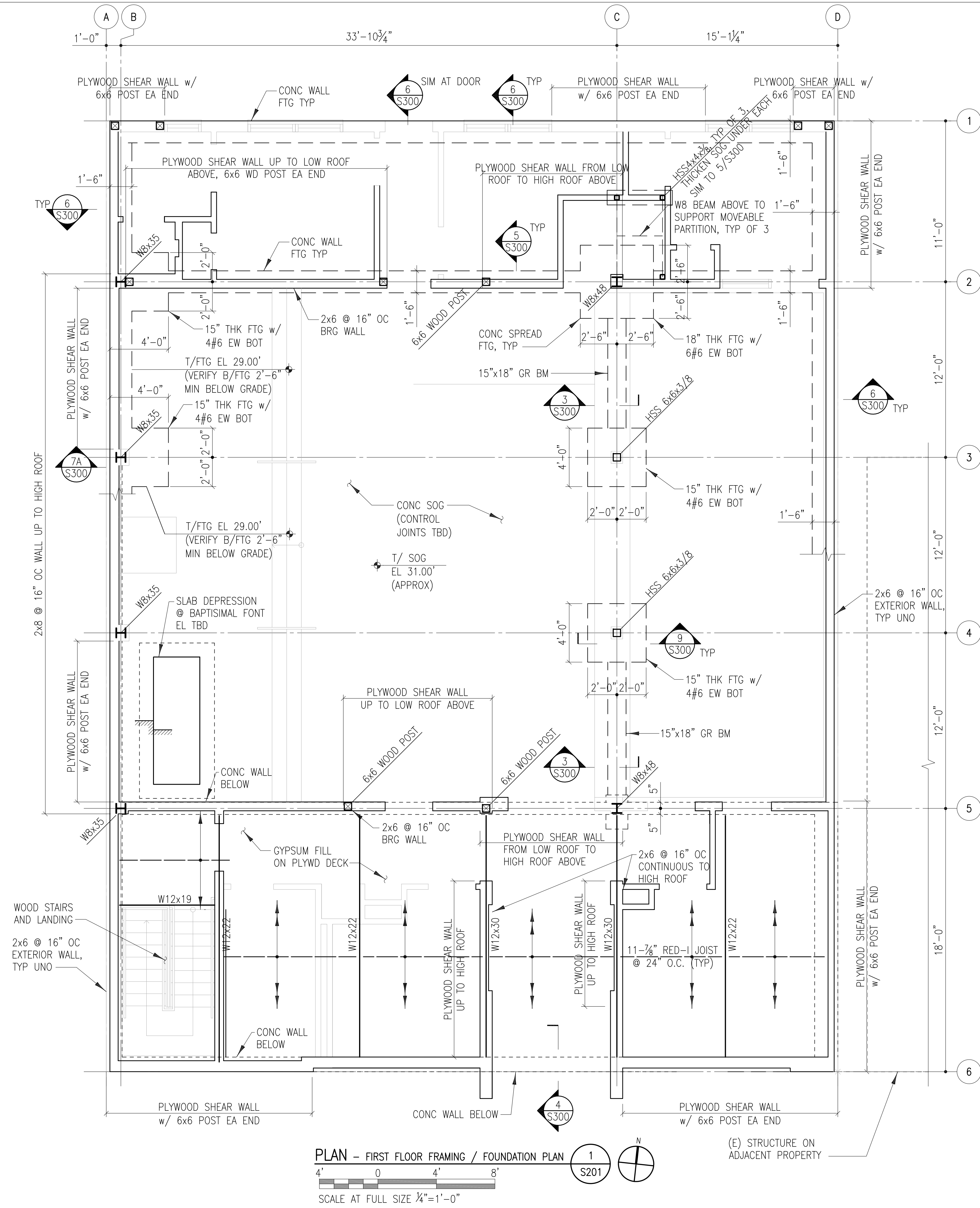
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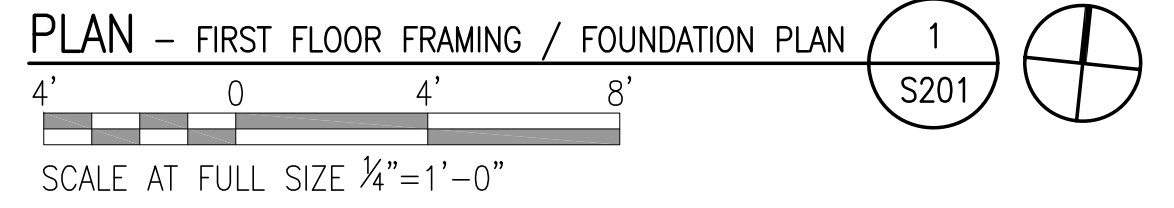
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First Floor Framing /
Foundation Plan

Sheet Number:

S201

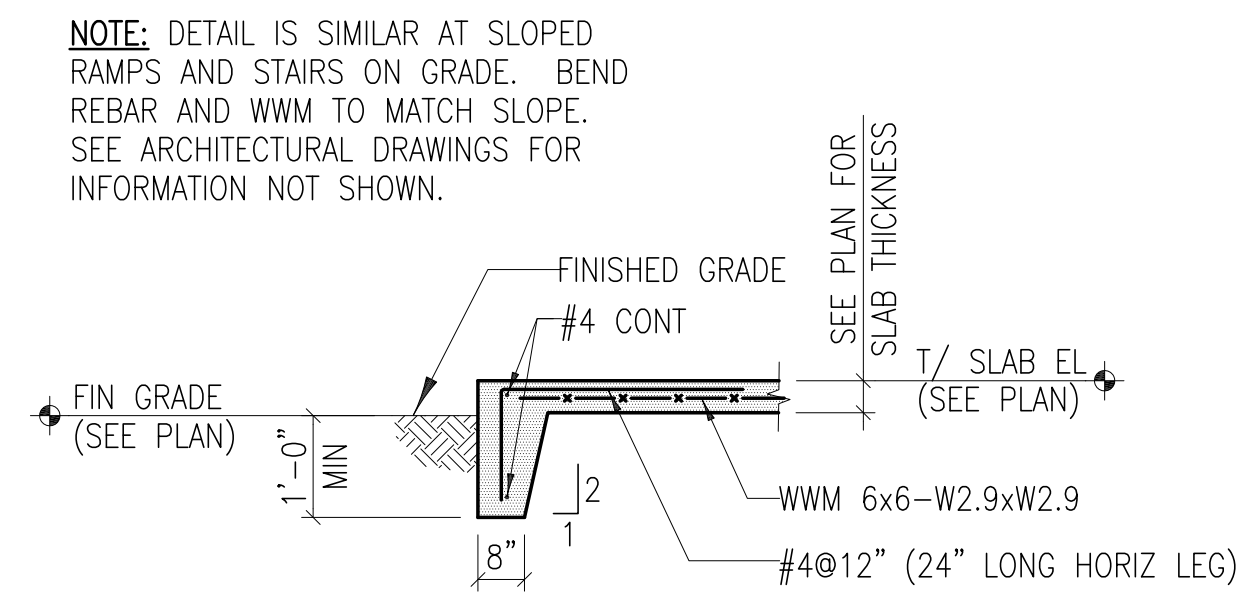
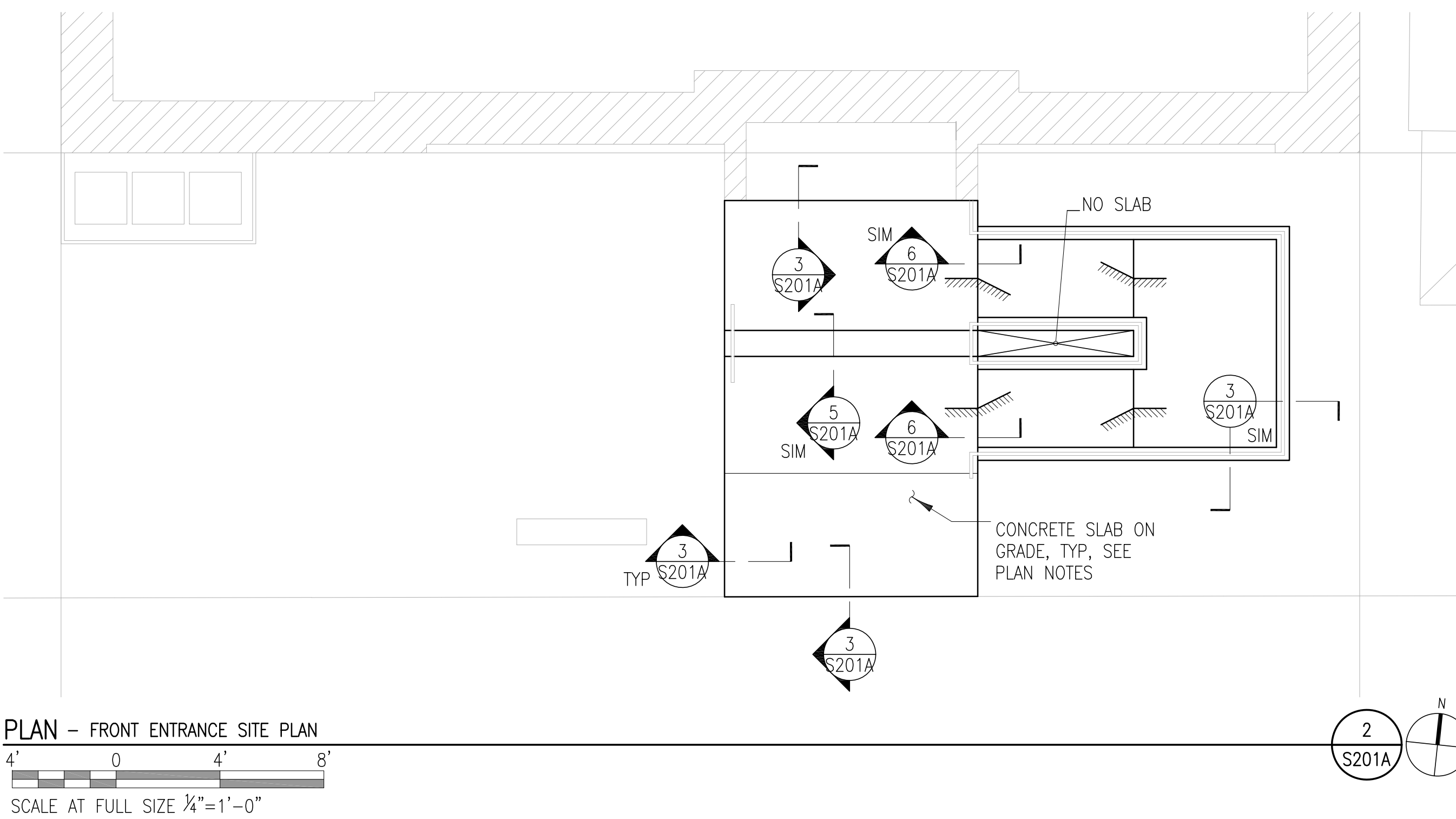
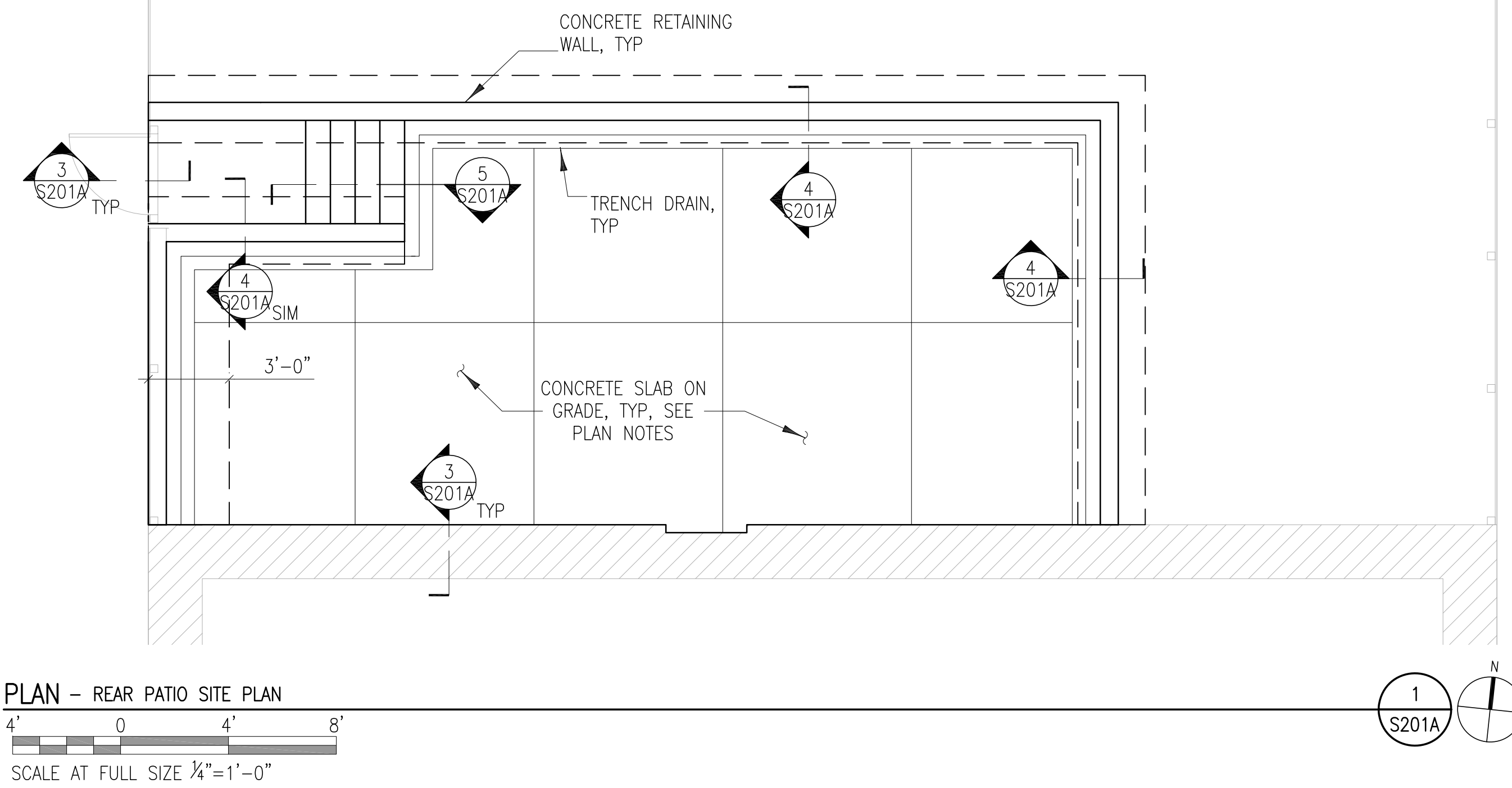


- SHEET NOTES:**
1. SLAB ON GRADE SHALL BE 5" THICK (MIN) NORMAL WEIGHT CONCRETE WITH 6x6-W2.9xW2X9 WWM ON 6 MIL POLYETHYLENE VAPOR BARRIER OVER 6" CRUSHED STONE PER GEOTECH REPORT.
 2. FOOTING EXCAVATIONS SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER TO BE CAPABLE OF SUPPORTING BEARING VALUES SPECIFIED IN GEOTECHNICAL REPORT.
 3. BOTTOM OF EXTERIOR FOOTINGS SHALL BE PLACED AT ELEVATIONS NOTED OR SUCH THAT BOTTOM OF FOOTING IS 2'-6" MINIMUM BELOW FINISH GRADE, WHICHEVER IS DEEPER. FOOTING ELEVATIONS SHOWN AS (XX.XX') ARE BASED ON PROJECT ELEVATIONS, REFER TO ARCHITECTURAL DRAWINGS.
 4. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL DIMENSIONS, INFORMATION NOW SHOWN, AND TO COORDINATE STRUCTURE WORK.
 5. SLAB ELEVATIONS ARE ESTIMATED BASED ON ARCHITECTURAL FINISHES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 6. SEE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE CONTROL JOINT LAYOUT. INSTALL EXPANSION JOINT AT ALL SLAB ON GRADE TRANSITIONS BETWEEN INTERIOR AND EXTERIOR SPACE.

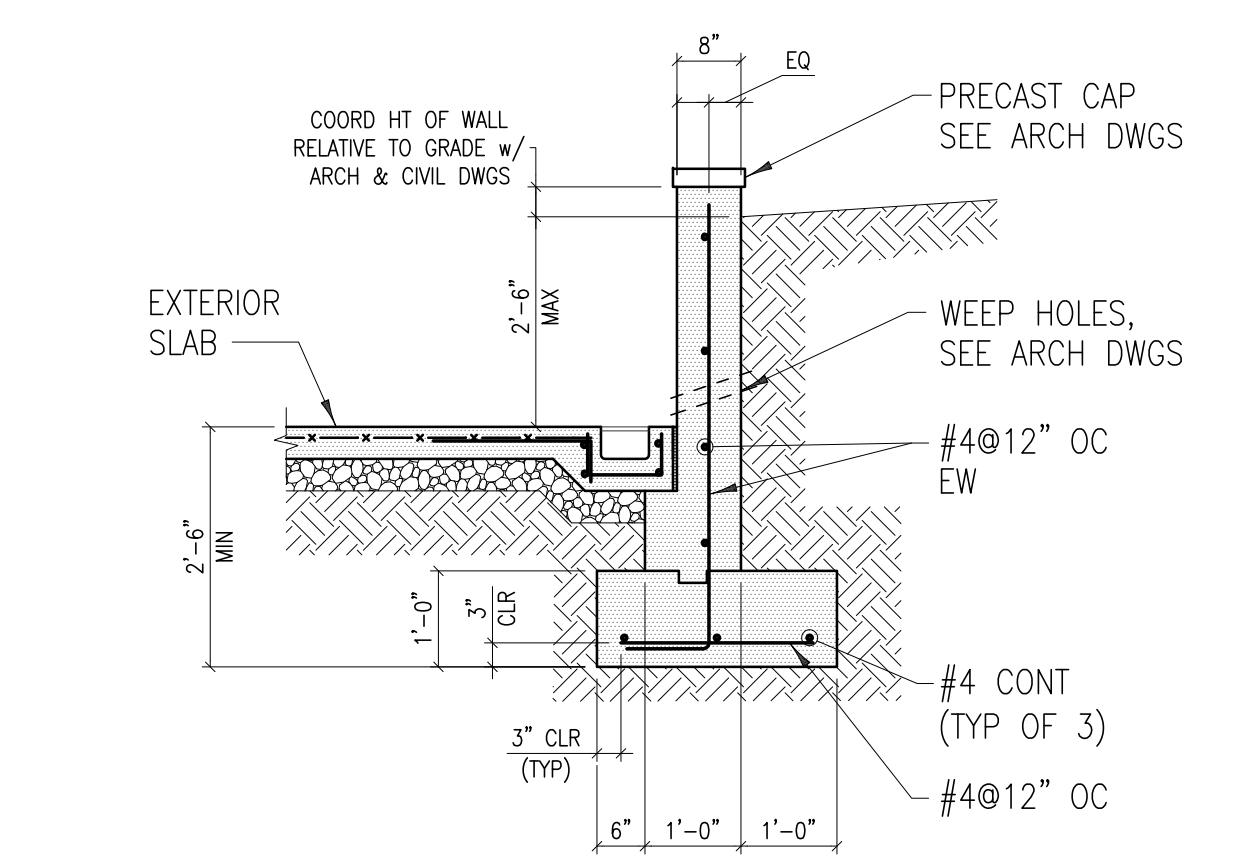


PLAN NOTES:

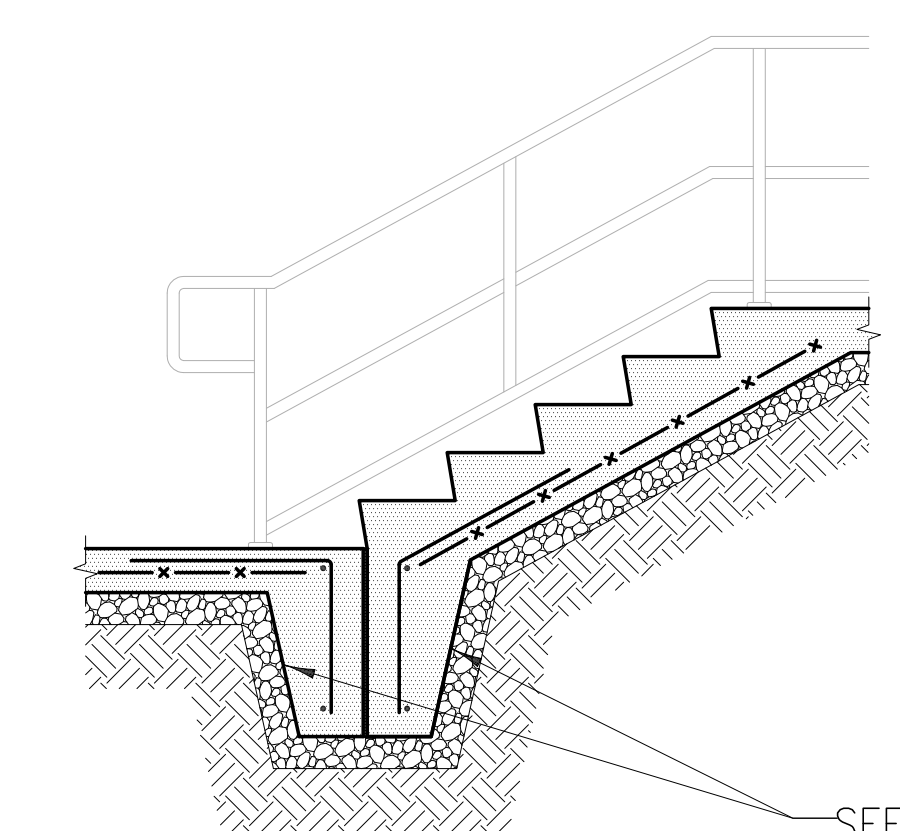
1. SLAB ON GRADE SHALL BE 5" THICK (MIN) NORMAL WEIGHT CONCRETE WITH 6x6-W2.9xW2X9 WWM ON 6 MIL POLYETHYLENE VAPOR BARRIER OVER 6" CRUSHED STONE PER GEOTECH REPORT.
2. REFERENCE ARCHITECTURAL AND CIVIL DRAWINGS FOR ADDITIONAL DIMENSIONS, INFORMATION NOT SHOWN, AND TO COORDINATE STRUCTURE WORK.
3. SLAB ELEVATIONS ARE ESTIMATED BASED ON ARCHITECTURAL FINISHES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
4. SEE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE CONTROL JOINT LAYOUT. INSTALL EXPANSION JOINT AT ALL SLAB ON GRADE TRANSITIONS BETWEEN INTERIOR AND EXTERIOR SPACE.



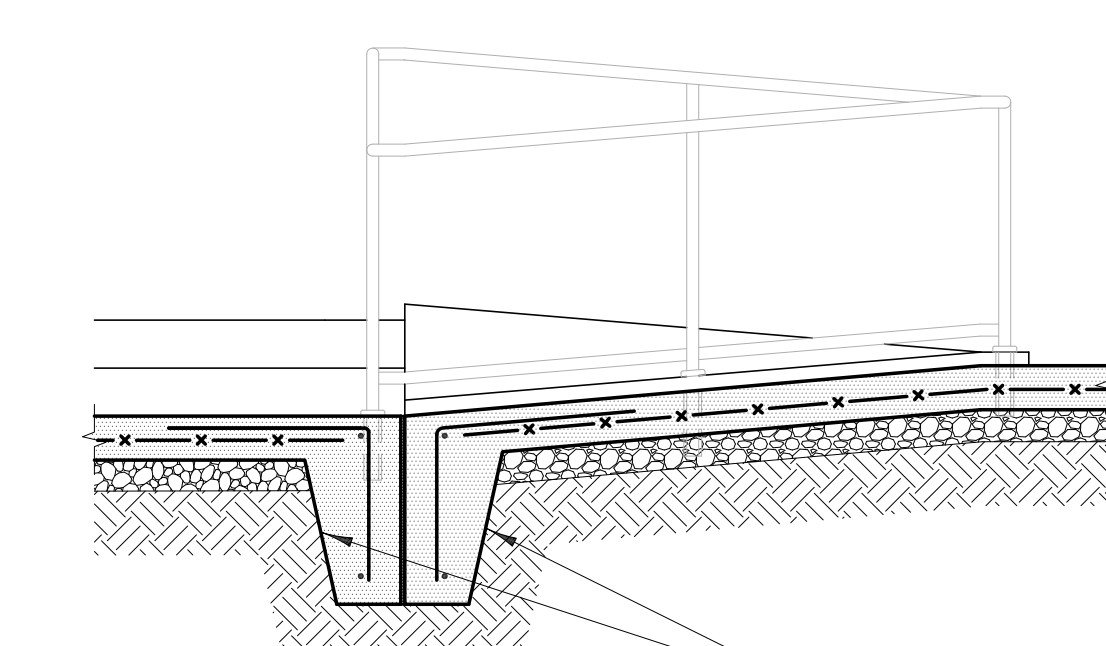
DETAIL - TYPICAL EXTERIOR SLAB
NTS



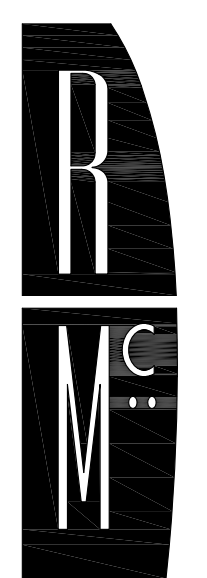
SECTION - SITE RETAINING WALL



ELEVATION - STAIR AT PATIO
SCALE AT FULL SIZE 1/2"=1'-0"



SECTION - CONCRETE RAMP
SCALE AT FULL SIZE 1/2"=1'-0"



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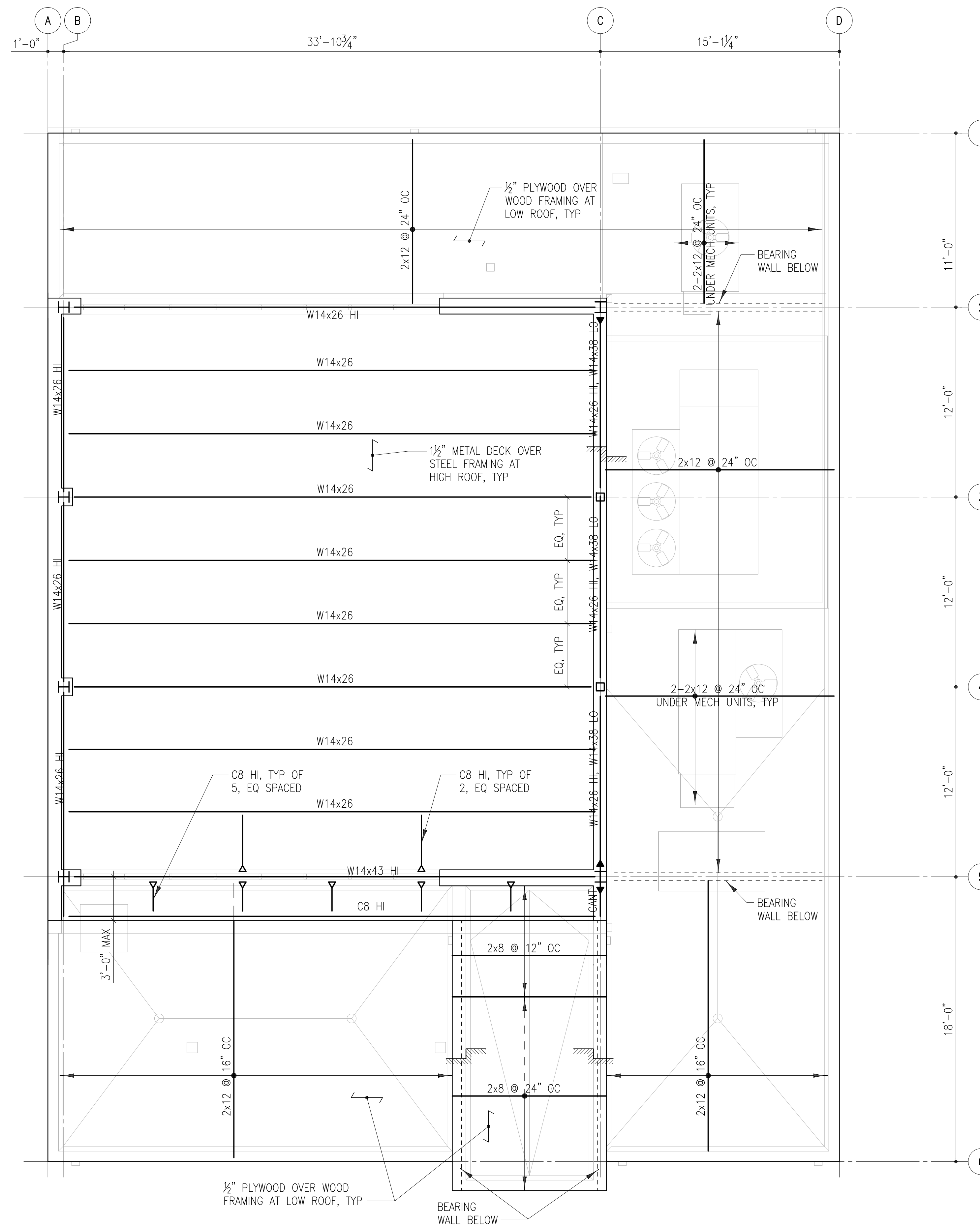
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Issue Date:
07.13.2011

Sheet Title:
Site Plans and Details

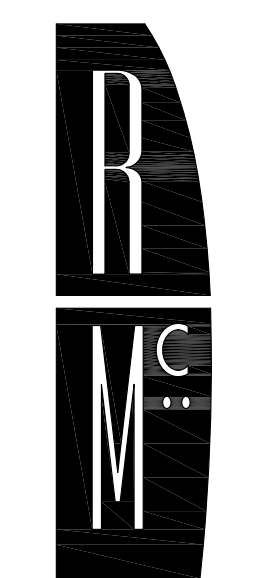
Sheet Number:

S201A



PLAN - ROOF FRAMING PLAN
 4' 0 4' 8'
 SCALE AT FULL SIZE 1/4"=1'-0"
 1 S202

NOTES:
 1.



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Sheet Title:
 Roof Framing Plan

Sheet Number:

S202



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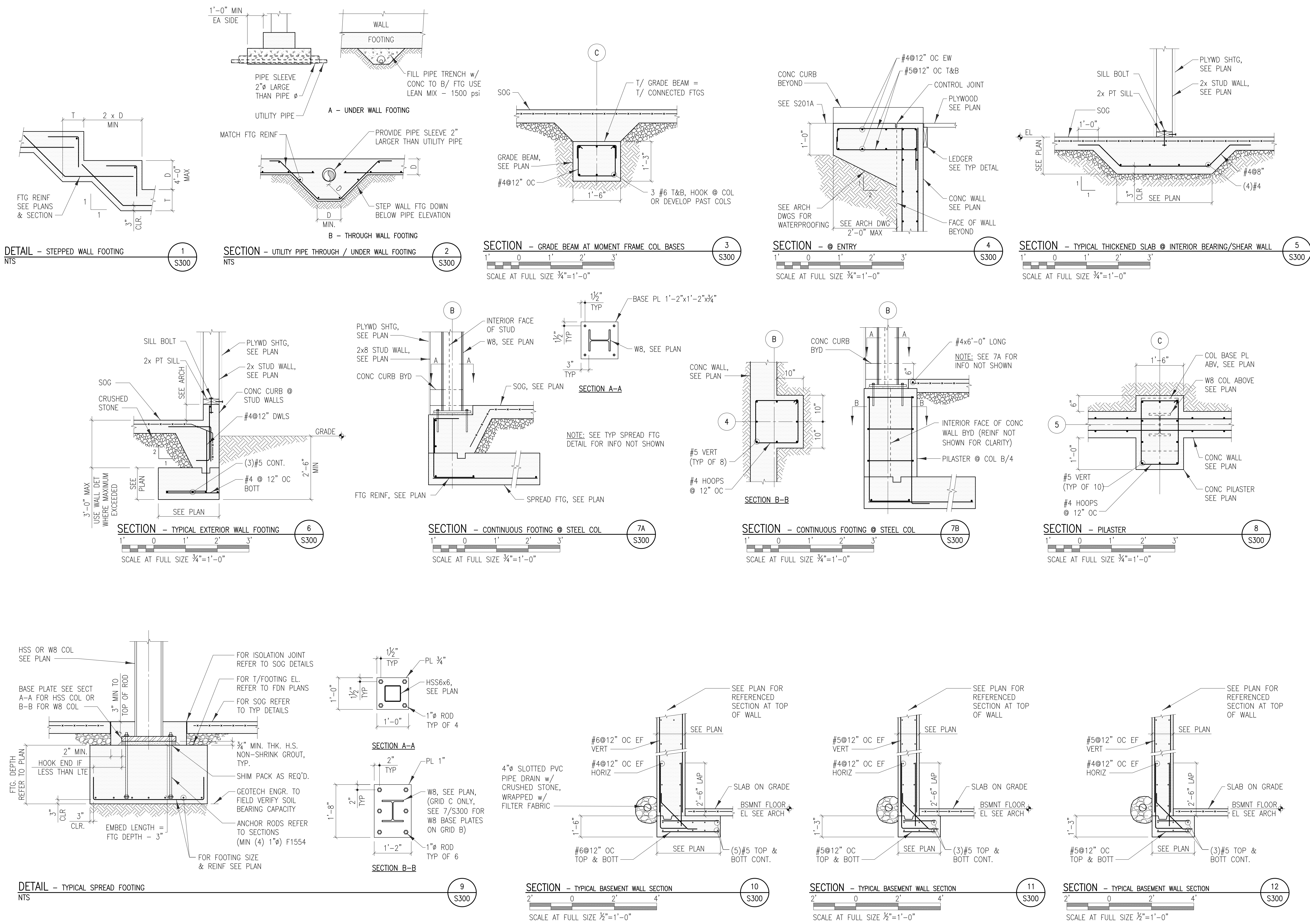
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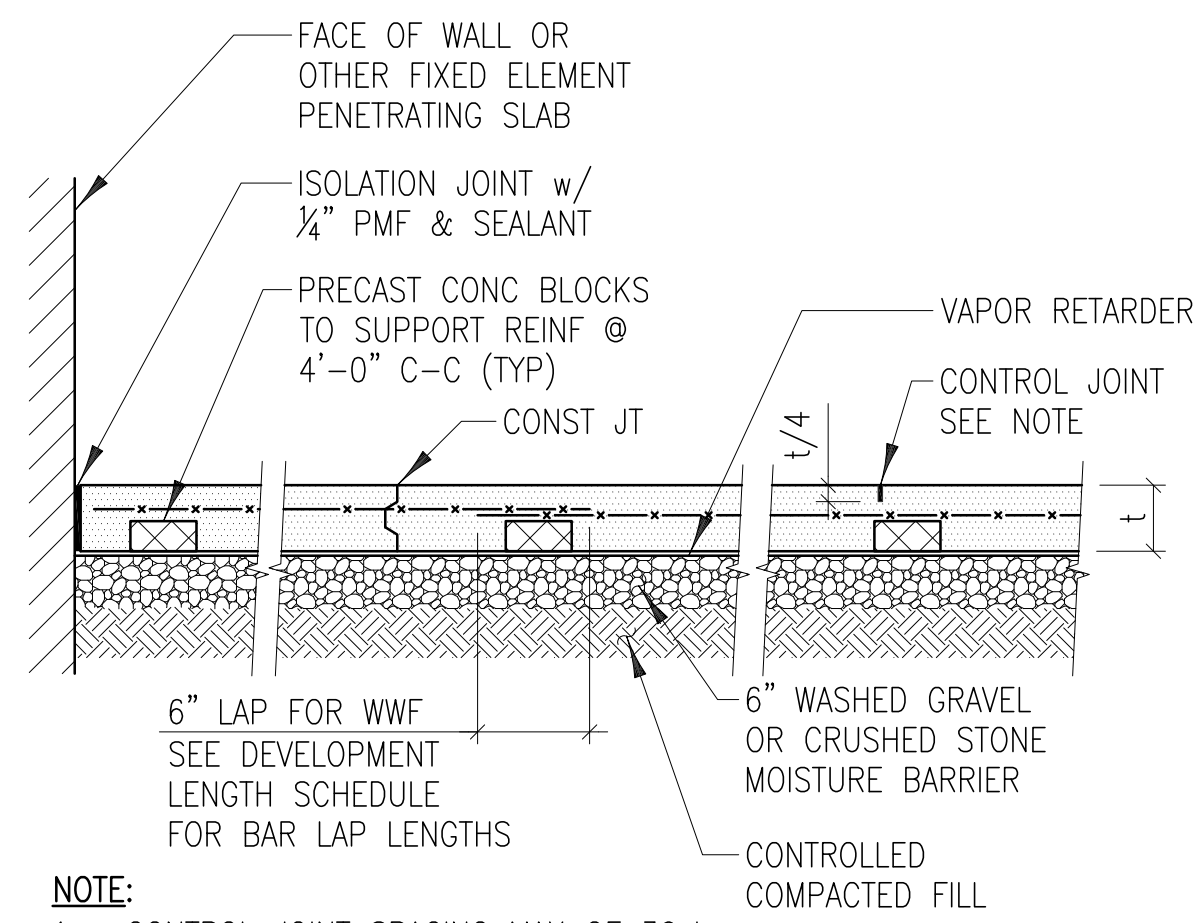
Issue Date:
07.13.2011

Sheet Title:
Foundation
Sections & Details

Sheet Number:

S300

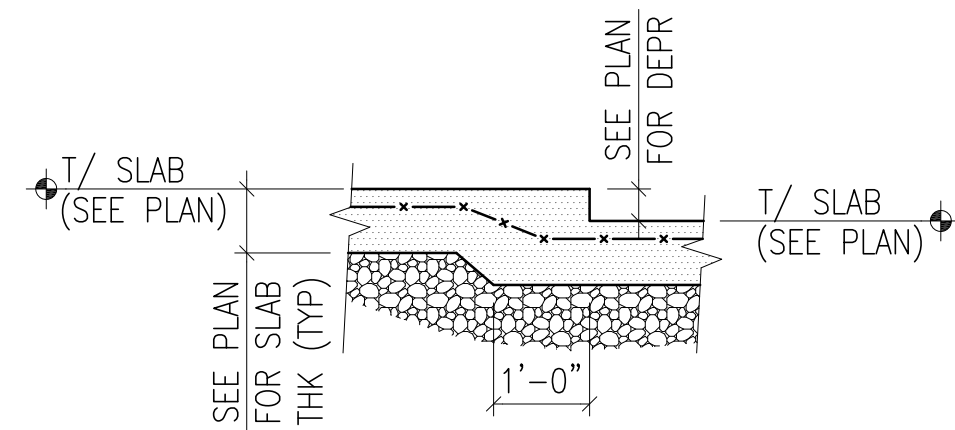




- NOTE:**
 1. CONTROL JOINT SPACING MAX OF 36t
 2. t = SLAB THICKNESS - SEE PLAN

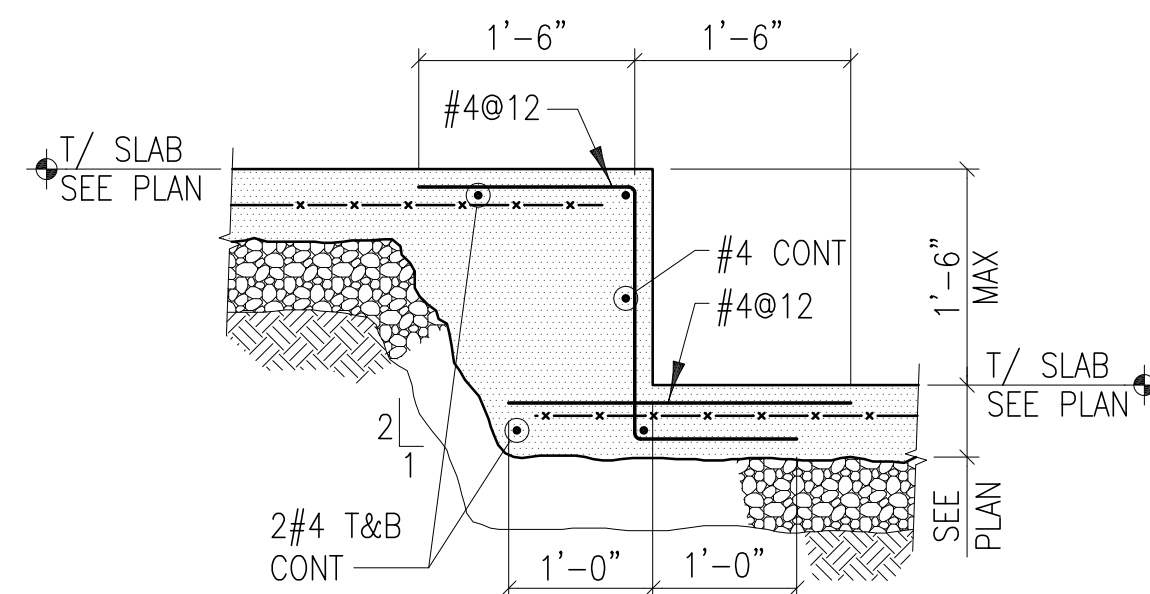
DETAIL - TYPICAL SLAB ON GRADE DETAIL
 NTS

1
 S301



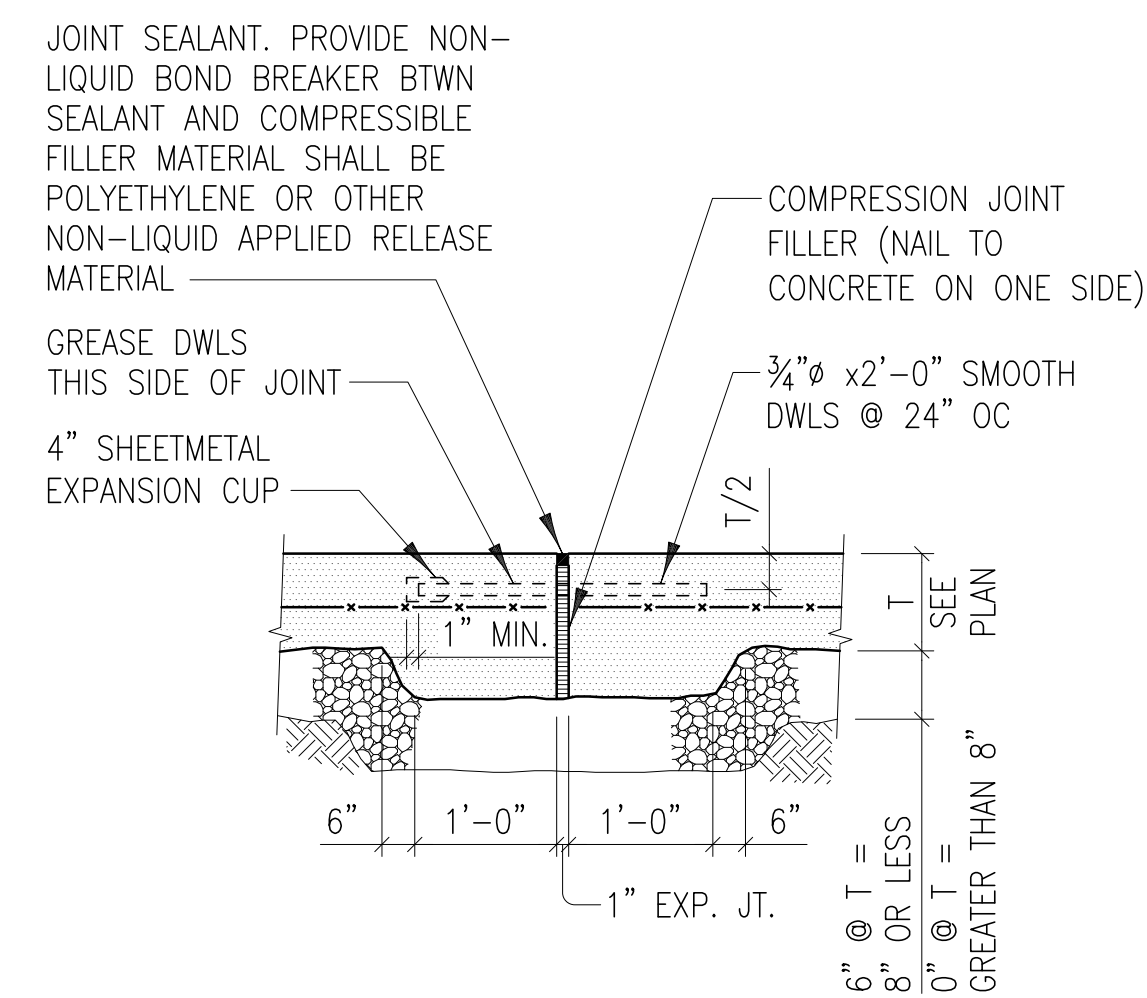
DETAIL - DEPRESSION IN SLAB LESS THAN OR EQUAL TO SLAB THICKNESS
 NTS

2
 S301



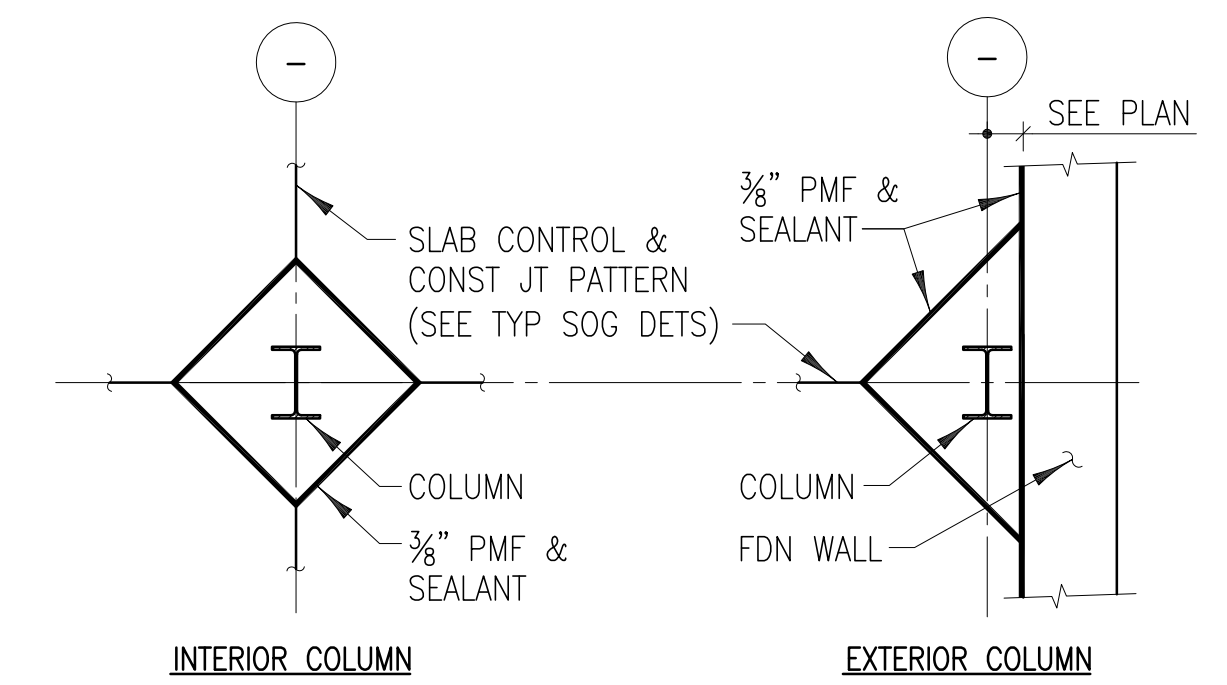
DETAIL - DEPRESSION IN SLAB GREATER THAN SLAB THICKNESS
 NTS

3
 S301



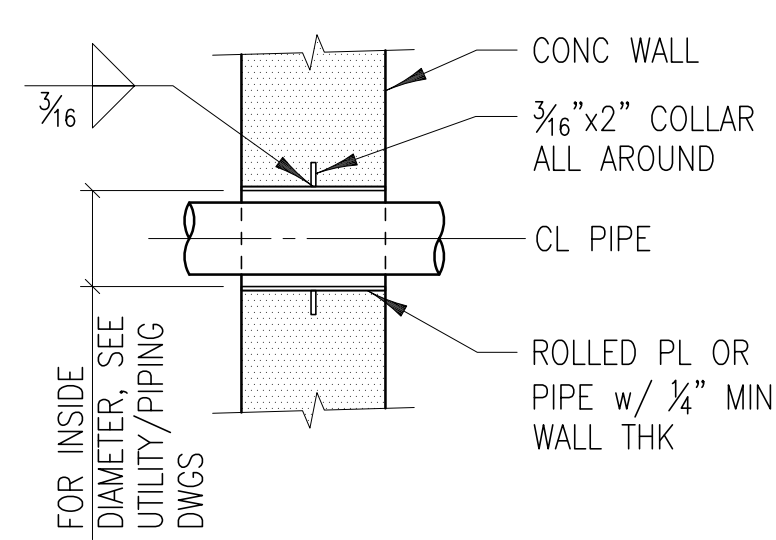
DETAIL - EXPANSION JOINT @ SLAB ON GRADE
 NTS

4
 S301



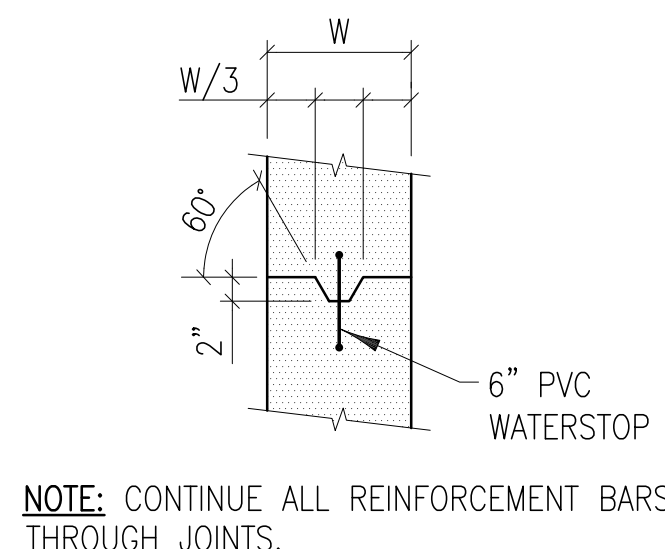
DETAIL - ISOLATION JOINTS @ COLUMN BASE
 NTS

5
 S301



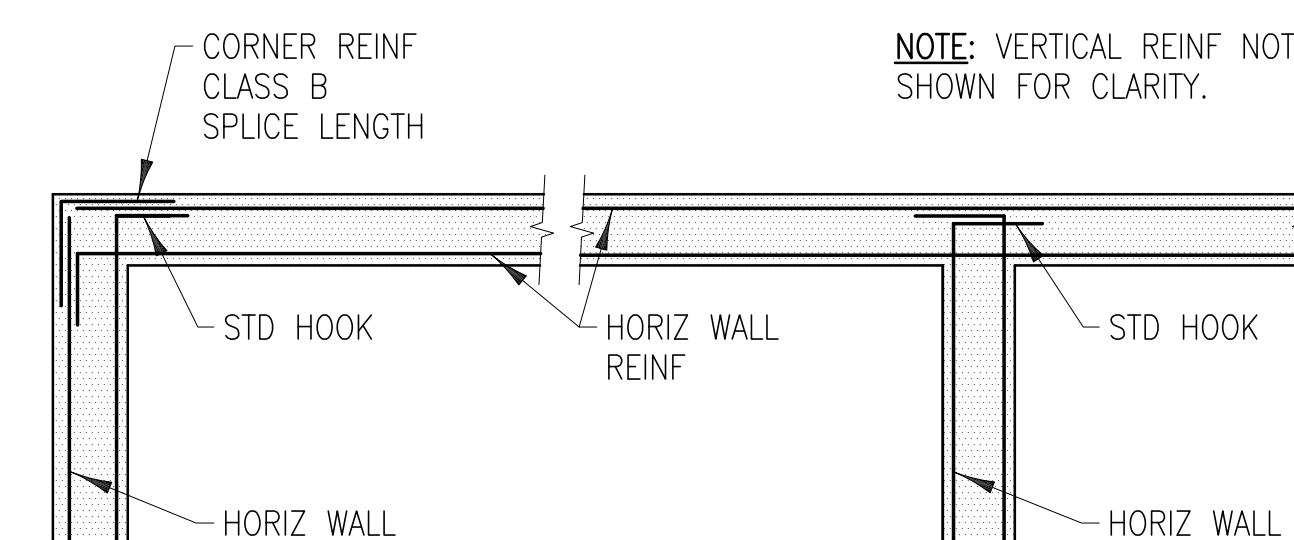
DETAIL - TYPICAL PIPE SLEEVE
 NTS

6
 S301



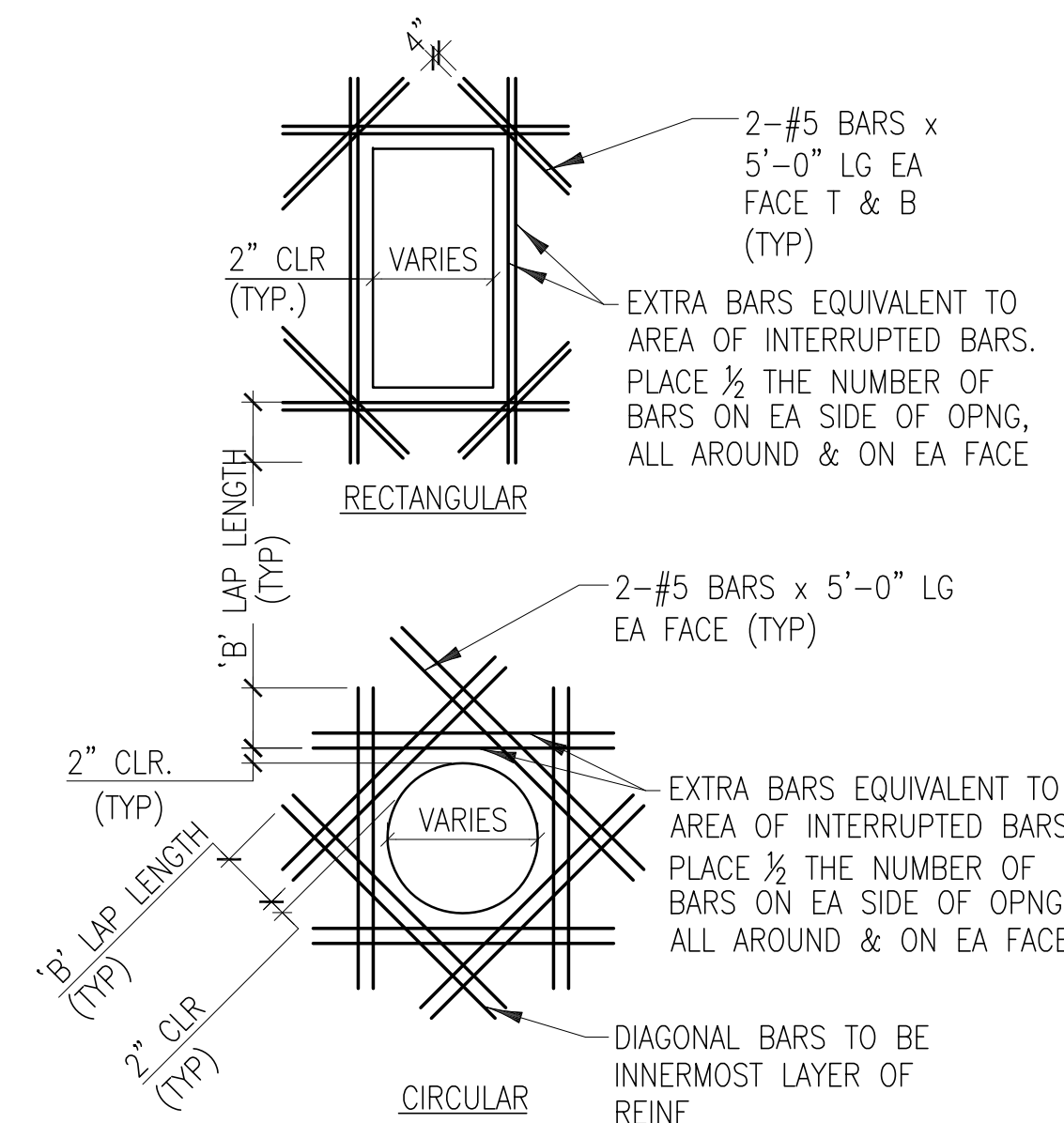
DETAIL - VERTICAL CONSTRUCTION JOINT
 NTS

7
 S301



DETAIL - TYPICAL REINFORCEMENT AT WALL INTERSECTIONS
 N.T.S.

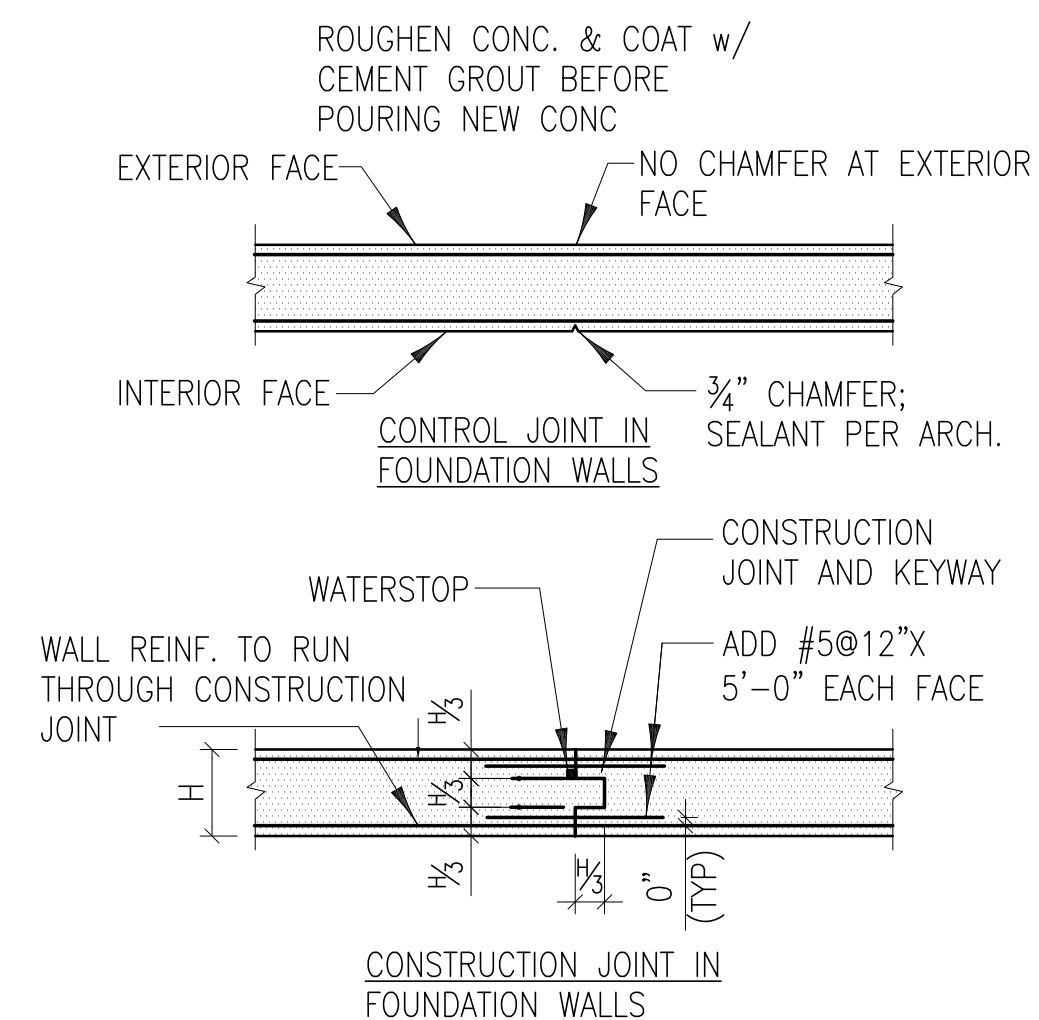
8
 S301



- NOTES:**
 1. PROVIDE ADDITIONAL REINFORCING AT ALL OPENINGS AS SHOWN ABOVE, U.N.O..
 2. DIMENSION BETWEEN ADJACENT OPENINGS SHALL BE GREATER THAN OR EQUAL TO WALL THICKNESS.

DETAIL - ADDITIONAL REINFORCING @ WALL OPENINGS
 NTS

9
 S301



- NOTES:**
 1. WHEN FDN. WALL SPANS HORIZONTALLY, STAGGER KEY VERTICALLY
 2. VERTICAL CONTROL JOINTS SHALL BE LOCATED 20'-0" o.c. MAXIMUM (10'-0" MAXIMUM FROM CORNERS).
 3. VERTICAL CONSTRUCTION JOINTS SHALL BE LOCATED 60'-0" o.c. MAXIMUM.

DETAIL - TYPICAL WALL JOINT DETAILS
 NTS

10
 S301



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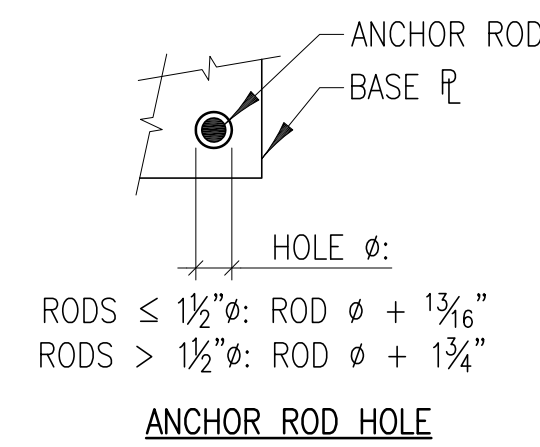
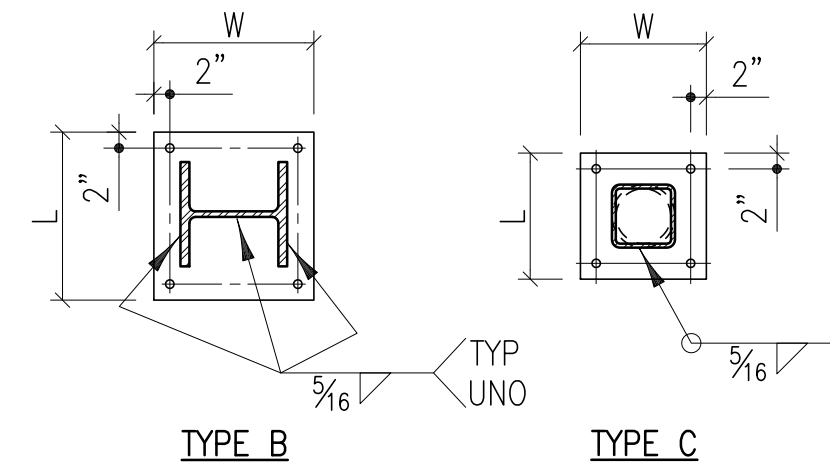
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 Foundation Sections & Details

Sheet Number:

S301

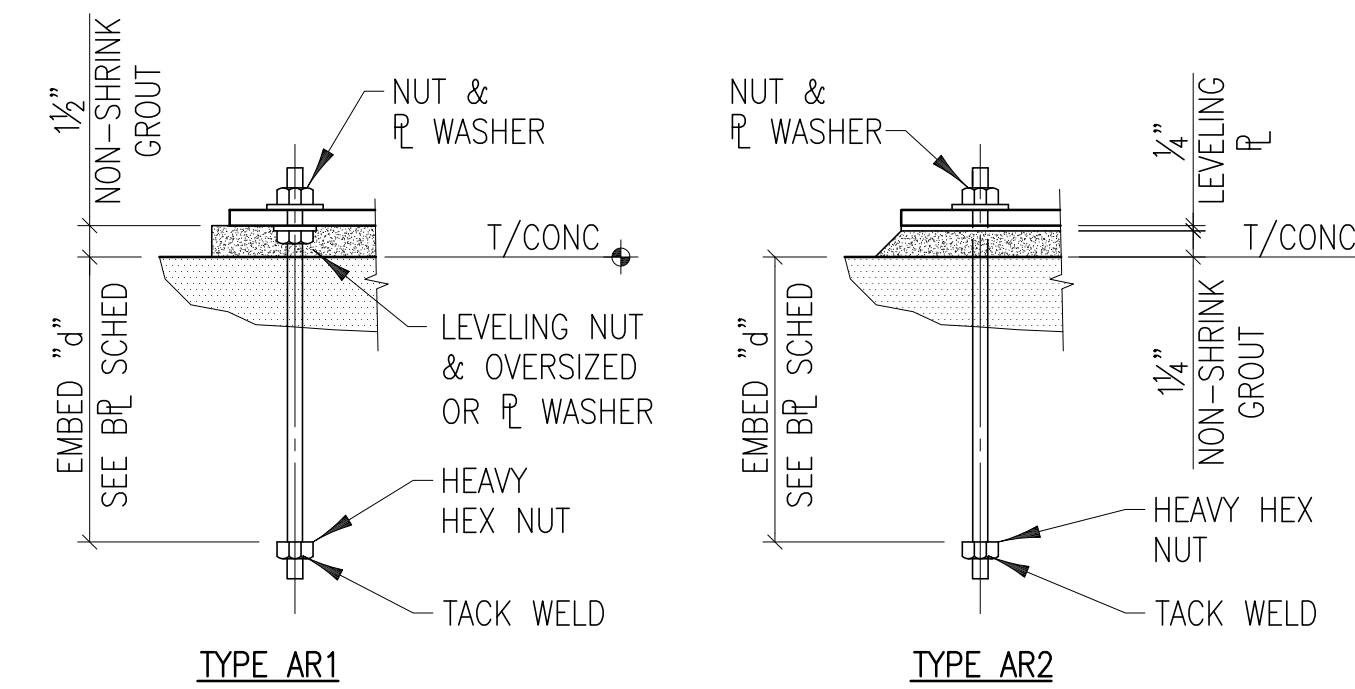
BASE PLATE SCHEDULE					
MARK	BASE PLATES		ANCHOR RODS		REMARKS
	TYPE	SIZE (t x W x L)	TYPE	SIZE x EMBED "d"	

PLATE WASHER SCHEDULE			
ANCHOR ROD	WASHER SIZE	ANCHOR ROD	WASHER SIZE
3/4"Ø	2"x2"x3/8"	1 1/2"Ø	3 1/2"x3 1/2"x1/2"
7/8"Ø	2 1/2"x2 1/2"x3/8"	1 3/4"Ø	4"x4"x3/8"
1"Ø	3"x3"x3/8"	2"Ø	5"x5"x3/4"
1 1/4"Ø	3"x3"x1/2"	2 1/2"Ø	5 1/2"x5 1/2"x7/8"



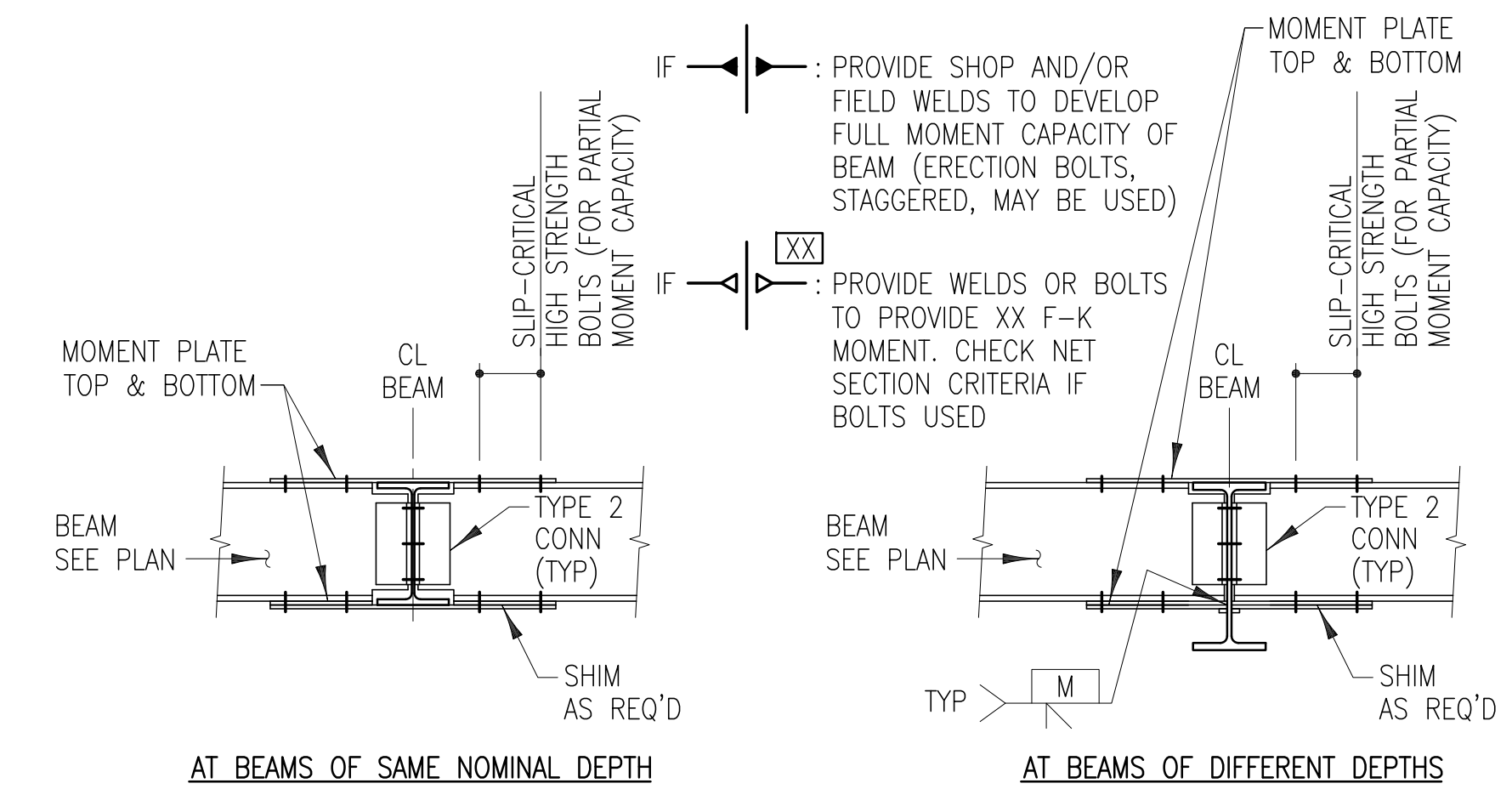
DETAILS - BASE PLATE AND ANCHOR RODS
NTS

1
S302



DETAILS - ANCHOR ROD TYPES
NTS

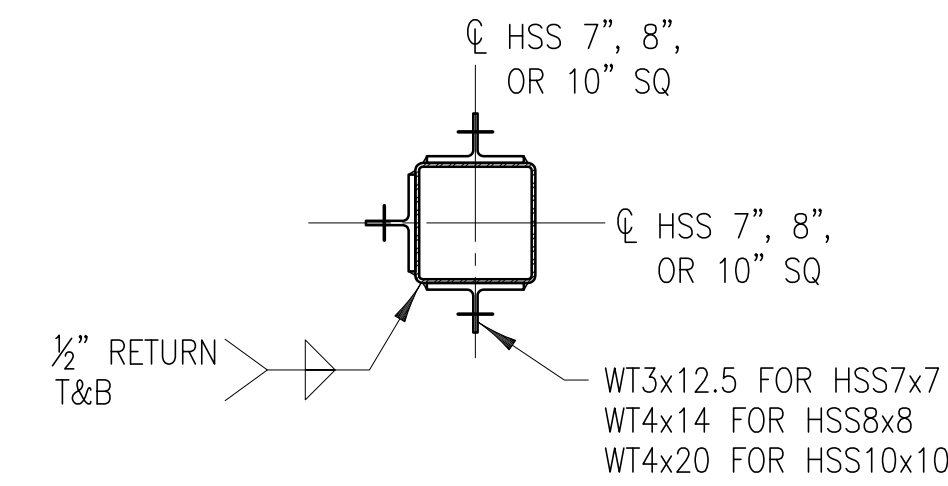
2
S302



DETAIL - TYPICAL BEAM TO BEAM MOMENT CONNECTION (U.N.O.)
NTS

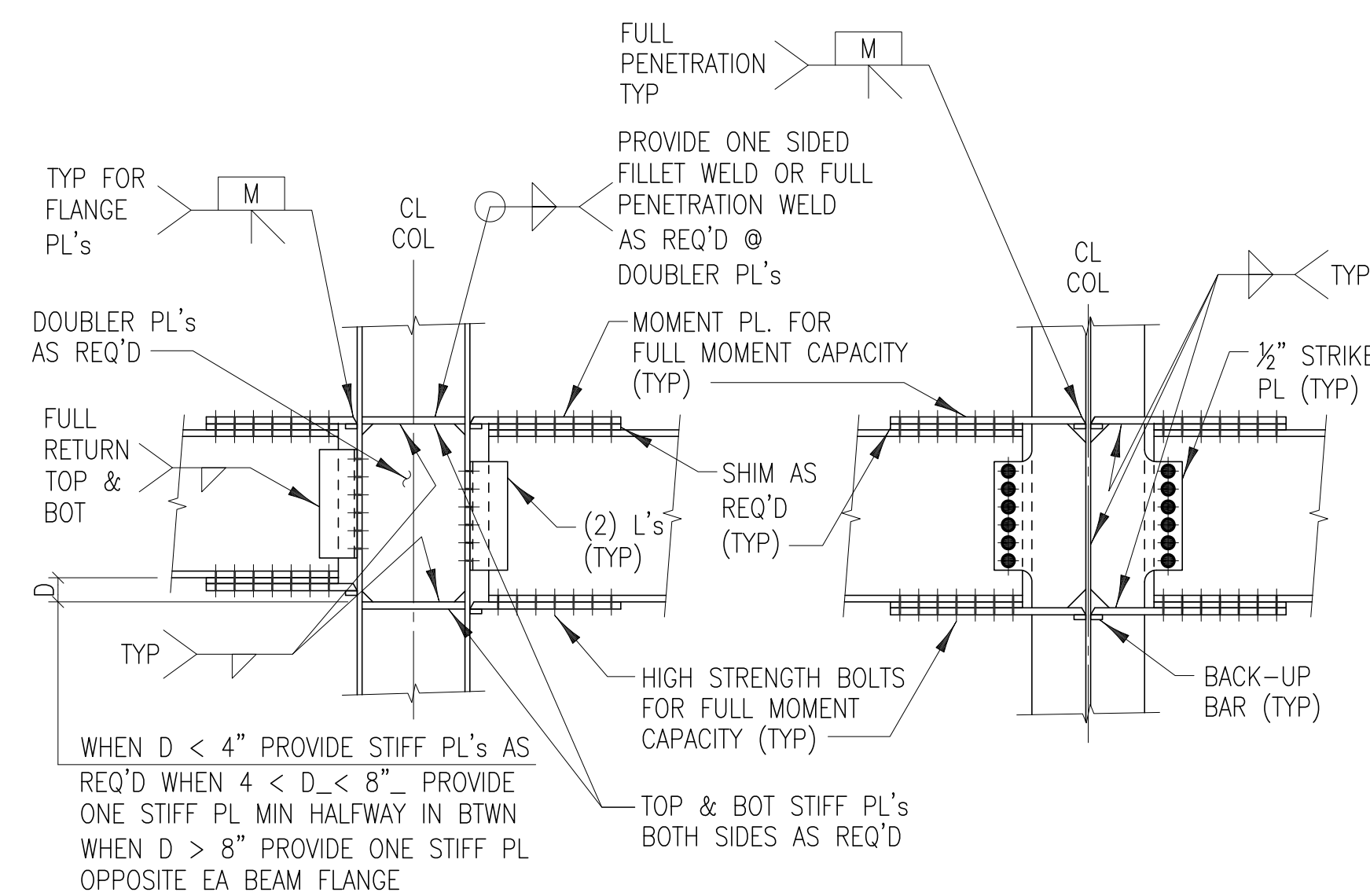
3
S302

INDICATED ON PLAN FOR FULL MOMENT CONNECTIONS
OR
INDICATED ON PLAN FOR PARTIAL MOMENT CONNECTIONS



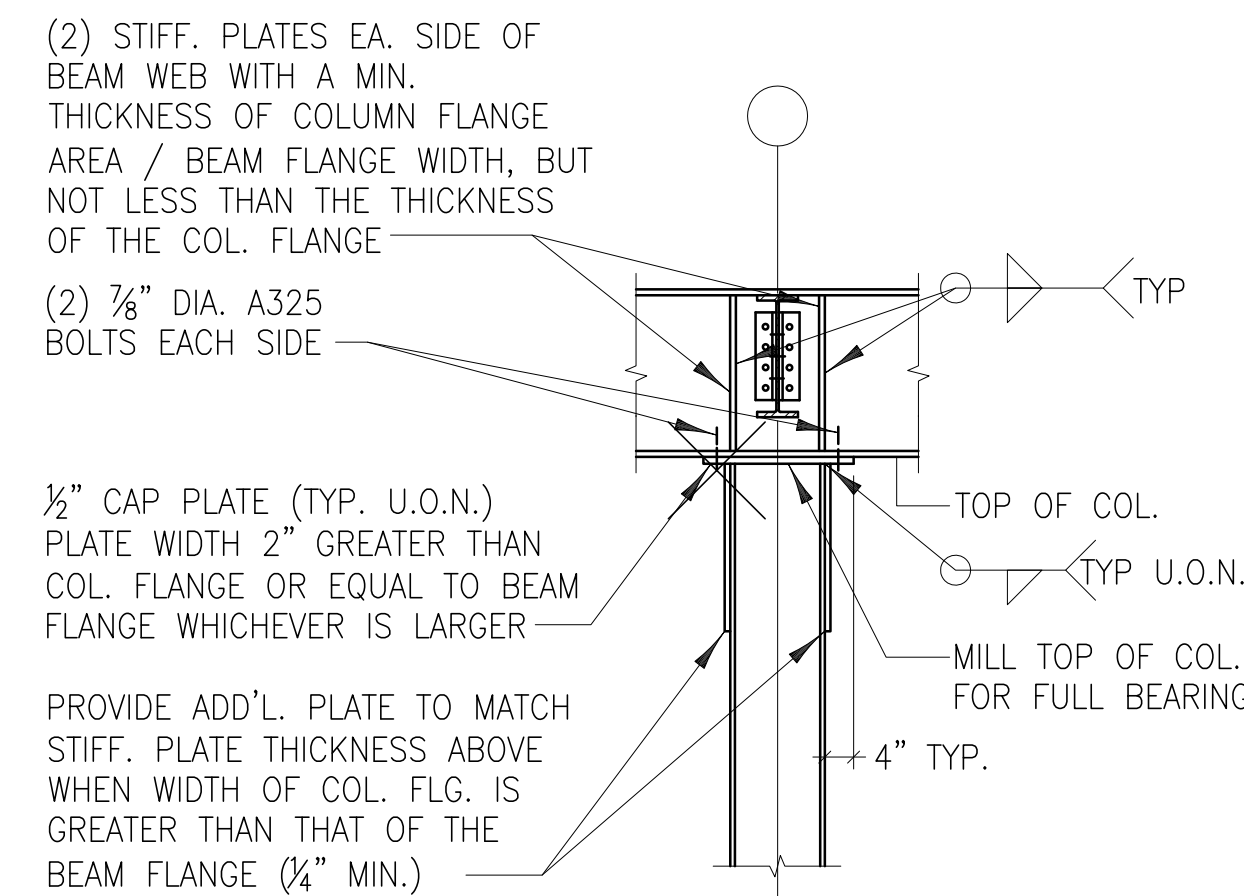
DETAIL - BEAM TO HSS COLUMN CONNECTION
NTS

4
S302



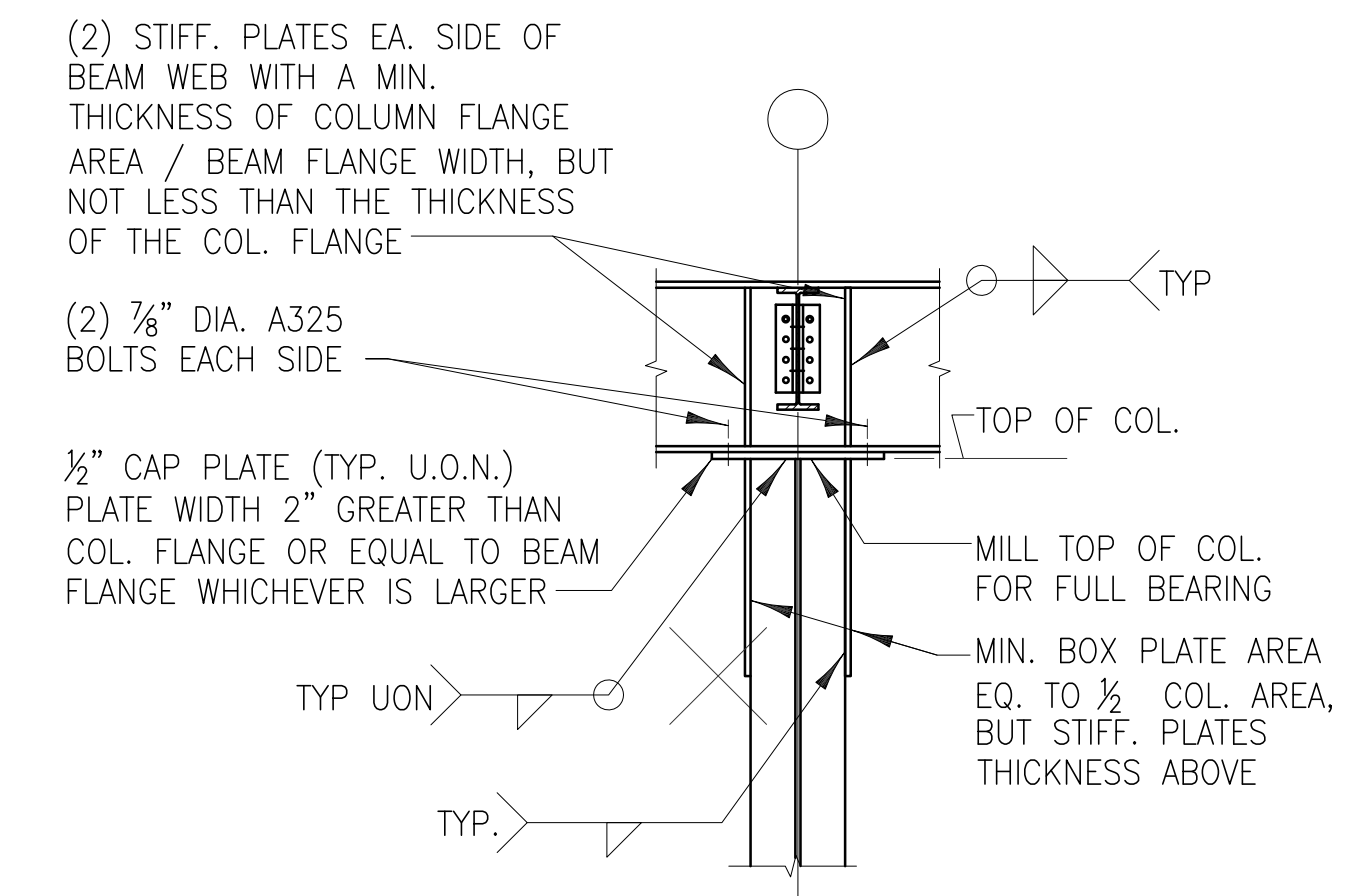
DETAIL - TYPICAL BEAM TO COLUMN MOMENT CONNECTION
NTS

6
S302



DETAIL - TYP. DETAIL OF BEAM BEARING ON COL
NTS

7
S302



DETAIL - TYP. DETAIL OF BEAM BEARING ON COL
NTS

8
S302



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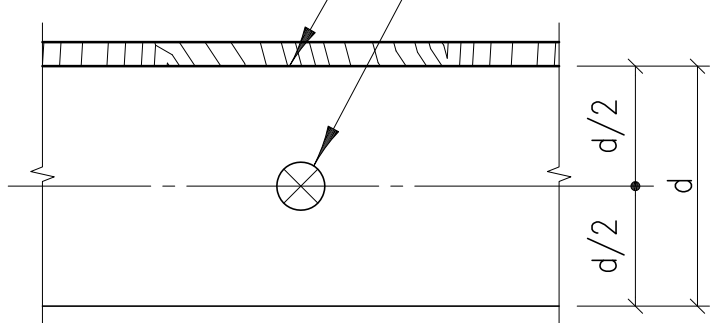
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Steel Framing Details

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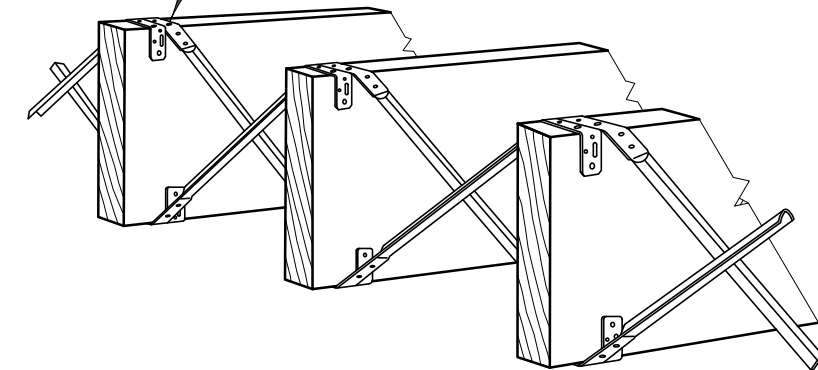
NOTE:
BOTTOM NOTCHING OF
JOISTS IS NOT ALLOWED.
NEW OR EXIST JOIST
RUNNING PERPENDICULAR
TO PIPING
CORE HOLE 2"Ø MAX
FOR PIPE PENETRATION



SECTION - TYP JOIST PENETRATION
NTS

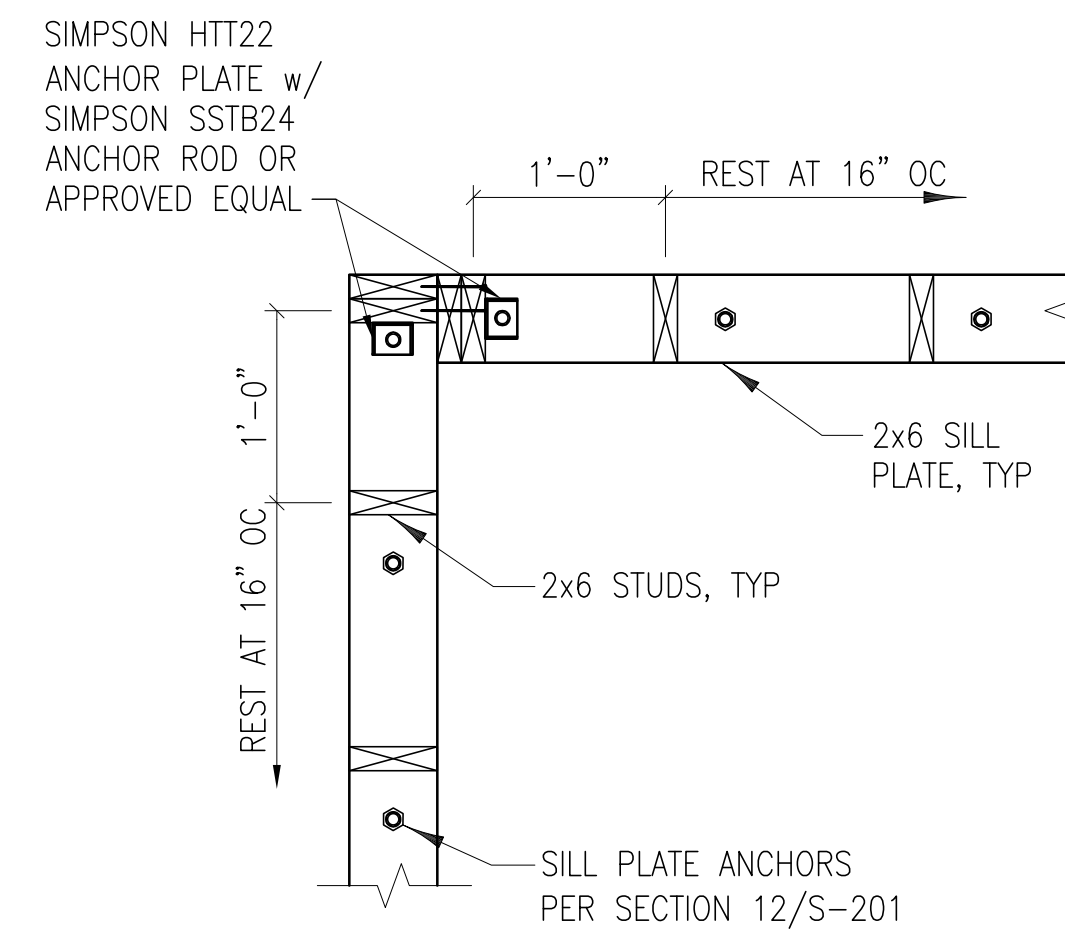
1
S303

INSTALL BRIDGING @ INTERVALS
NOT EXCEEDING 8'-0" OC



SECTION
NTS

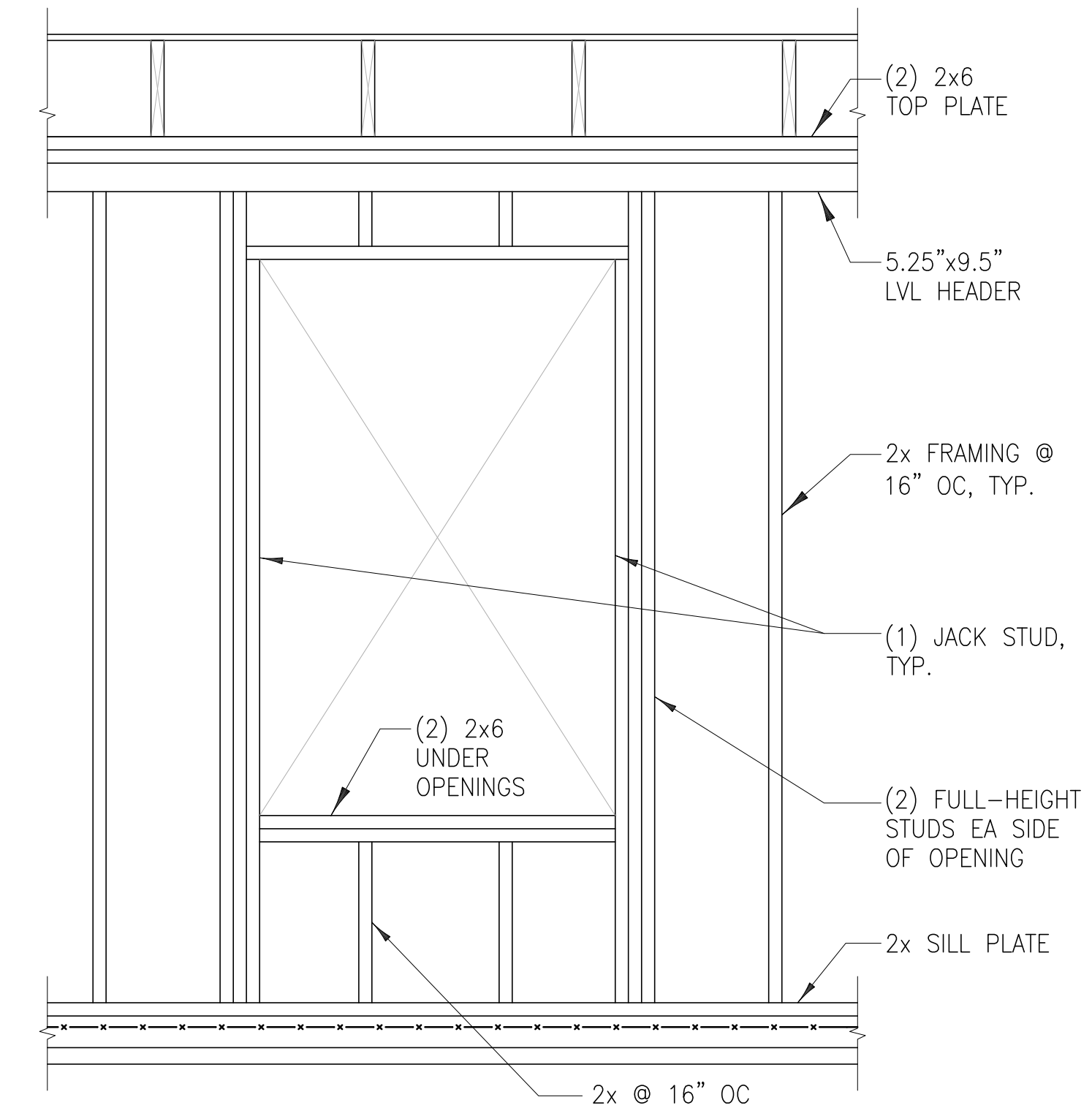
2
S303



DETAIL - CORNER DETAIL AT TYPICAL STUD WALL

SCALE AT FULL SIZE 1"=1'-0"

3
S303

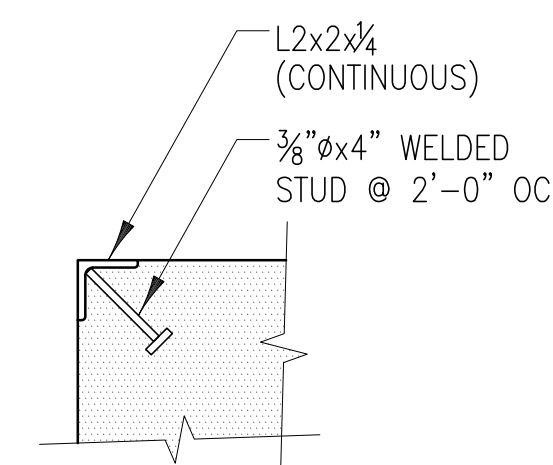


NOTE: ALL FRAMING TO BE 2x6 U.O.N.

SECT/DET - TYPICAL DETAIL AT EXTERIOR WALL

SCALE AT FULL SIZE 3/4"=1'-0"

4
S303



DETAIL - TYPICAL CORNER GUARD
NTS

7
S303

DECK SCHEDULE					
MARK	LOCATION	d (IN)	COMPOSITION	DESIGN LL	REMARKS
B	ROOF	1 1/2"	1 1/2" ROOF DECK	30 PSF	SNOW

NOTES:

1. ALL DECK TYPES REINFORCED WITH WELDED WIRE FABRIC WWF 6x6-W2.0xW2.0.
2. SEE PLANS FOR ADDITIONAL SLAB REINFORCING BARS.
3. SHORING MAY BE REQUIRED DURING CONCRETE PLACEMENT, DEPENDING ON MFR MAX ALLOWABLE SPAN. SHORING IS NOT SHOWN ON DWGS.



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Metal Deck &
Wood Framing Details

Sheet Number:

S303

MECHANICAL GENERAL NOTES

GENERAL:

1. THE INTENT OF THESE DRAWINGS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEMS. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR IS OBLIGATED TO EXAMINE PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THESE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED.
2. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
3. THESE DRAWINGS ARE SCHEMATIC AND INTENDED TO DEPICT THE GENERAL LOCATION OF HVAC SYSTEM COMPONENTS. CONSULT THE ARCHITECTURAL PLANS FOR PROPER DIMENSIONS AND LOCATION OF EQUIPMENT.
4. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE ARCHITECT SHALL BE ADVISED IMMEDIATELY, AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
5. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
6. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER. VERIFY SLAB PENETRATION LOCATIONS PRIOR TO PROCEEDING WITH WORK IN ORDER TO LOCATE OBSTRUCTIONS EMBEDDED IN SLAB. SUBMIT DRAWING OF ALL SLAB PENETRATIONS FOR LANDLORD/ARCHITECT/ENGINEER APPROVAL PRIOR TO PROCEEDING WITH WORK.
7. PROVIDE FIRE DAMPERS AT ALL PENETRATIONS INTO FIRE RATED STRUCTURE, SUCH AS FIRE RATED PARTITIONS, ETC. ALL FIRE DAMPERS SHALL BEAR THE U.L. LABEL.
8. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THIS CONTRACTOR FOR BEAMS, COLUMNS OR OTHER OBSTRUCTIONS OF THE BUILDING OR THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SAME IS INDICATED. WHERE NECESSARY TO AVOID OBSTRUCTIONS THE DUCTS SHALL BE TRANSFORMED, DIVIDED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED WHILE MAINTAINING DESIGNED CEILING HEIGHTS.
9. ALL ROTATING MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
11. CONTROLS AND ACCESSORIES FOR EQUIPMENT SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.
12. PROVIDE MOTOR STARTERS, ELECTRICAL DISCONNECTS, TRANSFORMERS, CONTROL WIRING AND ALL OTHER REQUIRED ACCESSORIES NECESSARY FOR AUTOMATIC OPERATION OF MECHANICAL EQUIPMENT.
13. THERMOSTAT SHALL BE INSTALLED ON THE WALL 48" ABOVE FINISHED FLOOR WHERE SHOWN ON THE FLOOR PLANS, COORDINATE W/ ARCHITECT.
14. MECHANICAL CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. MECHANICAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH AFTER WORK COMPLETION.
15. THE WORK DETAILED ON THESE PLANS IS BASED ON PREVIOUSLY PREPARED BASE BUILDING DRAWINGS. WHERE EXISTING FIELD CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF DISCREPANCIES WHICH WILL AFFECT THE PROPOSED WORK PRIOR TO BEGINNING WORK.

16. SYMBOLS SHOWN ON SCHEDULES DEFINE TYPE OF EQUIPMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR RESEARCHING DRAWINGS FOR EXACT QUANTITIES REQUIRED OF EACH TYPE.
17. PRIOR TO INSTALLATION OF NEW WORK, CONTRACTOR SHALL VERIFY THAT ALL DUCTWORK, EQUIPMENT, PIPING, ETC., SHALL BE FREE FROM INTERFERENCE WITH EXISTING CONDITIONS. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
18. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, DRAIN POINTS, ETC. IF REQUIRED FOR ACCESSIBILITY, FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE. ALLOW FOR BETTER ACCESSIBILITY, AND ANY CHANGE FOR THAT PURPOSE SHALL BE APPROVED.
19. ALL EQUIPMENT WHICH REQUIRES INTERFACE WITH THE ELECTRICAL TRADE, SUCH AS CONTROLLING DEVICES, DISCONNECT SWITCHES, MOTORS, ETC., SHALL BE FULLY COORDINATED BETWEEN ALL TRADES.
20. LOCATION OF SWITCHES FOR EXHAUST FANS SHALL BE COORDINATED WITH LIGHT SWITCHES AND THERMOSTATS AND ALL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT. BATHROOM EXHAUST FAN SWITCHES SHALL BE INTERLOCKED WITH BATHROOM LIGHT SWITCHES. "PROVIDE" – "FURNISH" AND "INSTALL". "NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
21. ALL WORK TO BE GUARANTEED FOR ONE YEAR AGAINST LABOR AND MATERIALS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF THE GUARANTEE PERIOD. TIME FOR THIS GUARANTEE SHALL BEGIN FROM THE DATE OF ACCEPTANCE OF THE COMPLETE WORK BY THE OWNER OR HIS APPOINTED REPRESENTATIVE. NOTE: THESE GUARANTEES SHALL BE SUBMITTED TO THE TENANT AND/OR BUILDING OWNER FOR RECORD PURPOSES.
22. AS USED IN THE DRAWINGS AND SPECIFICATIONS FOR MECHANICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITION OR OTHER DOCUMENTS GOVERNING THE MECHANICAL WORK.

"FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK. PURCHASING SHALL INCLUDE PAYMENT OF ALL SALES TAXES AND OTHER SURCHARGES AS MAY BE REQUIRED TO ASSURE THAT PURCHASED ITEMS ARE FREE OF ALL LIENS, CLAIMS OR ENCUMBRANCES.

"INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.

"PROVIDE" – "FURNISH" AND "INSTALL".

"NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
23. ALL MATERIAL, EQUIPMENT AND ACCESSORIES, FURNISHED AND INSTALLED SHALL BE NEW AND EQUAL TO OR SURPASS THE QUALITY OF SIMILAR MATERIALS AS SCHEDULES. ALL MATERIALS, EQUIPMENT AND METHODS SHALL BE AS SPECIFIED IN THE BASE BUILDING CONTRACT DOCUMENTS UNLESS NOTED OTHERWISE.

DUCTWORK:

1. PROVIDE SPIN-IN BRANCH DUCT CONNECTIONS.
2. DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL IN ACCORDANCE WITH THE LATEST SMACNA DUCT CONSTRUCTION STANDARDS FOR MEDIUM & LOW PRESSURE DUCTWORK. ALL NEW SUPPLY, RETURN AIR AND EXHAUST AIR DUCTS MUST BE SEALED.
3. ALL DUCTWORK SHALL BE CONNECTED TO MECHANICAL EQUIPMENT USING RUBBERIZED-CANVAS FLEXIBLE CONNECTIONS.
4. ALL DUCTWORK SHOWN ARE INSIDE DIMENSIONS.
5. ALL BRANCH DUCTWORK CONNECTIONS TO MAIN AND DIFFUSER SHALL INCLUDE VOLUME DAMPER.
6. ALL GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE PRODUCTS OF THE SAME MANUFACTURER AND SHALL BE COORDINATED WITH THE CEILINGS TO ENSURE THAT PROPER FRAME TYPES ARE FURNISHED.
7. ALL DUCTWORK AND PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. CONTRACTOR TO PROVIDE SUPPORT/HANGER AS DEEMED APPROPRIATE IN ACCORDANCE WITH DESIGN INTENT.

TEST & BALANCE:

1. IT SHALL BE THE OBLIGATION OF THIS CONTRACTOR TO INCLUDE IN HIS BALANCING PROCEDURE A COMPLETE TEST OF ALL BUILDING A.C. UNITS AND HEAT PUMPS. BALANCING CONTRACTOR SHALL BE CERTIFIED BY NEBB OR AABC.

THIS SHALL INCLUDE:

 - A. CFM QUANTITIES FOR MAXIMUM AND MINIMUM SETTINGS.
 - B. DISCHARGE TEMPERATURE.

MALFUNCTIONS WILL BE REPORTED TO THE OWNERS REPRESENTATIVE. AND ENGINEER/ARCHITECT.

ALL DATA RECORDED SHALL BE ENTERED INTO THE BALANCING REPORT.
2. PROVIDE ALL NECESSARY ACCESSORIES FOR DUCTWORK TO ALLOW PROPER AIR BALANCE. BALANCE AIR SYSTEMS IN ACCORDANCE WITH AABC OR NEBB STANDARDS AND METHODS TO QUANTITIES INDICATED. SUBMIT BALANCING REPORTS FOR REVIEW AND APPROVAL.

INSULATION:

1. ALL INSULATION JACKETS, ADHESIVE, ETC., SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 AND A SMOKE DEVELOPED RATING NOT OVER 50.
2. INSULATION SHALL BE PROTECTED AT HANGERS BY A SECTION OF CALCIUM SILICATE PIPE INSULATION AND A TOTAL SHIELD ON THE OUTSIDE OF THE INSULATION. ALL HOLLOW STEEL PROTECTION SADDLES SHALL BE FILLED WITH LOOSE GLASS FIBER INSULATION.
3. ASBESTOS SHALL NOT BE USED IN THE MANUFACTURE OF INSULATION PRODUCTS.
4. ALL SUPPLY AIR DUCTWORK SHALL BE INSULATED WITH 1" GLASS FIBER INSULATION WITH CONTINUOUS EXTERNAL VINYL REINFORCED FOIL VAPOR BARRIER. ALL JOINTS SHALL BE ATTACHED WITH A 2" SEALING LAP.

SYMBOLS

- | | |
|--|--------------------------------|
| | DUCTWORK |
| | ELBOW WITH TURNING VANES |
| | FLEXIBLE DUCTWORK |
| | FIRE DAMPER |
| | THERMOSTAT |
| | SUPPLY DIFFUSER |
| | RETURN/EXHAUST GRILLE |
| | LINEAR SUPPLY DIFFUSER |
| | NEW DUCTWORK |
| | EQUIPMENT TAG |
| | NEW DUCTWORK WITH SOUND LINING |
| | DUCT SMOKE DETECTOR |
| | MOTORIZED DAMPER |
| | CO2 SENSOR |
| | HAND RAIL |

ABBREVIATIONS

- | | |
|------|--------------------------------|
| AHU | AIR HANDLING UNIT |
| BDD | BACK DRAFT DAMPER |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| CD | CONDENSATE DRAIN |
| CU | CONDENSING UNIT |
| CFM | CUBIC FEET PER MINUTE |
| CLG. | CEILING |
| CONN | CONNECTION |
| CONT | CONTINUATION |
| DIA. | DIAMETER |
| DN. | DOWN |
| DWG | DRAWING |
| EAT | ENTERING AIR TEMP |
| ESP | EXHAUST FAN |
| ESP | EXTERNAL STATIC PRESSURE |
| EF-# | EXHAUST FAN |
| F | FROM |
| FD | FIRE DAMPER |
| FLEX | FLEXIBLE |
| FRO | FOR REFERENCE ONLY |
| GPH | GALLON PER HOUR |
| GAL | GALLON |
| HP | HORSE POWER/HEAT PUMP |
| KW | KILOWATTS |
| LF | LINEAR FEET |
| LAT | LEAVING AIR TEMP |
| MAHU | MULTI-ZONE AIR HANDLING UNIT |
| MER | MECHANICAL/ELECTRICAL ROOM |
| MNFR | MANUFACTURER |
| OA | OUTSIDE AIR |
| OED | OPEN ENDED DUCT |
| PH | PHASE |
| RPM | REVOLUTION PER MINUTE |
| RL | REFRIGERANT LIQUID |
| RS | REFRIGERANT SUCTION |
| RA | RETURN AIR |
| RAF | RETURN AIR FAN |
| RG | RETURN GRILLE SHOWING |
| CFM | SR SUPPLY REGISTER SHOWING |
| CFM | SA SUPPLY AIR TEMP TEMPERATURE |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UD | UNDER DOOR CUT |
| V | VOLT |
| WG | WATER GAUGE |
| WH | WALL HEATER |
| WMS | WIRE MESH SCREEN |



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Project Number:
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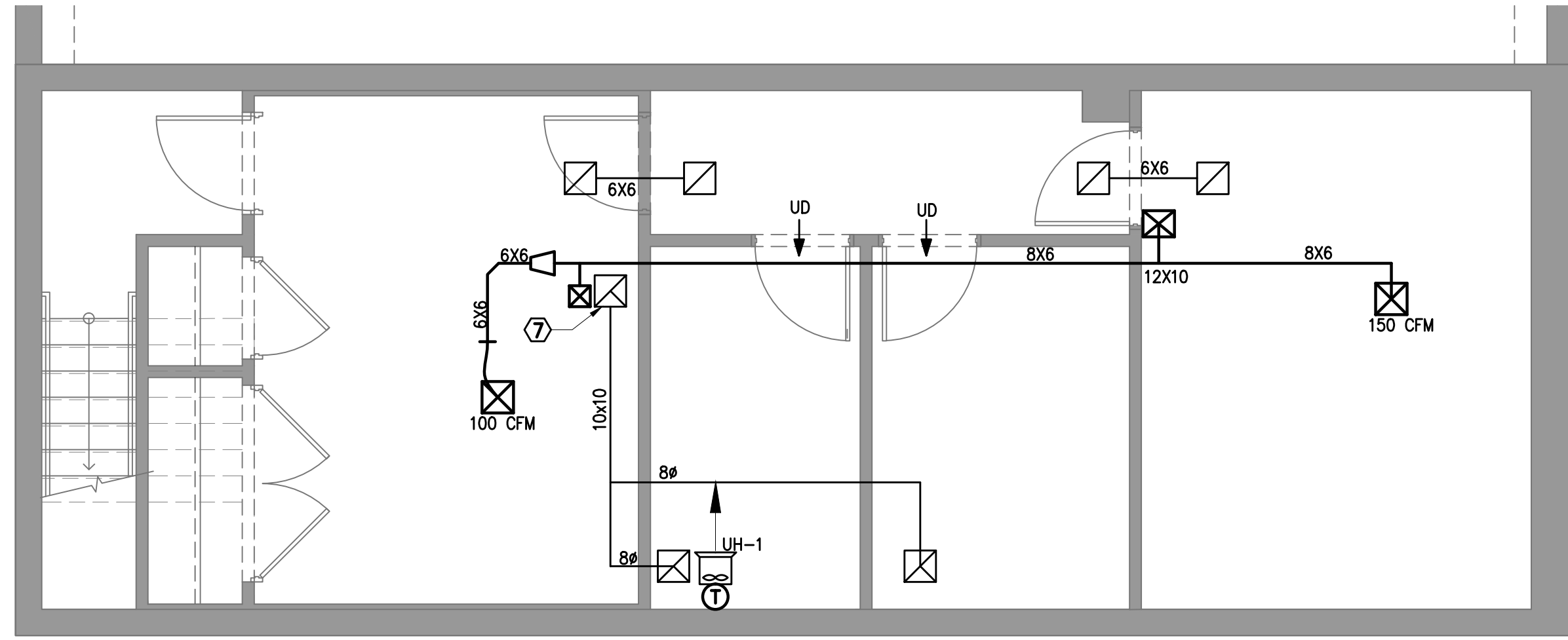
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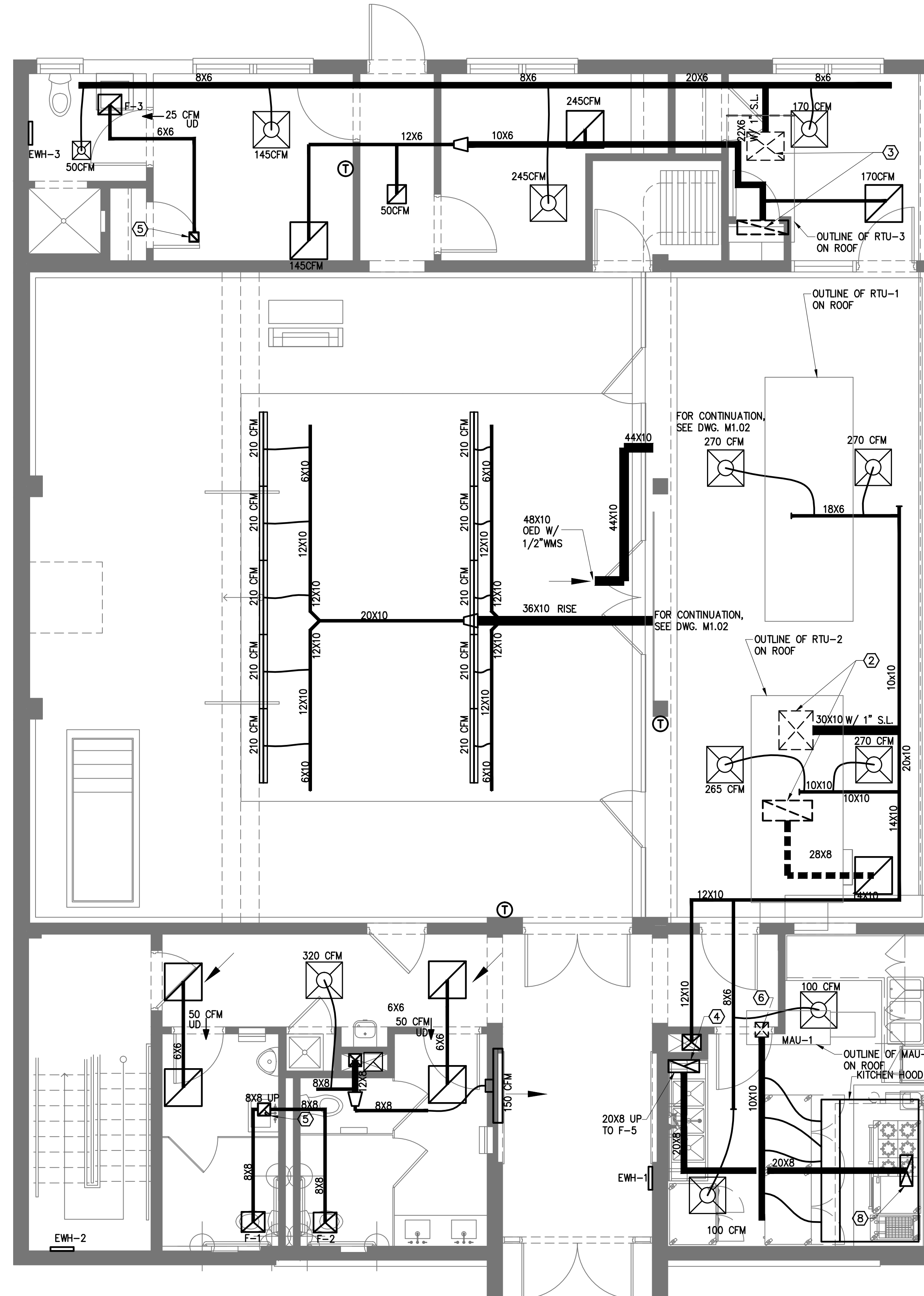
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MECHANICAL
COVER SHEET

Sheet Number:
M0.01



1 MECHANICAL BASEMENT FLOOR PLAN
1/4"=1'-0"



2 MECHANICAL FIRST FLOOR PLAN
1/4"=1'-0"

GENERAL NOTES

- SEE DRAWING M0.01 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SPECIFIC NOTES

- SUPPLY AND RETURN AIR DUCT OPENINGS ABOVE ROOF.
- 26X14 SUPPLY AND RETURN AIR DUCT WITH 1" SOUND LINING UP TO RTU-2 ON THE ROOF. PROVIDE TRANSITION RISE TO UNIT OUTLETS.
- 16X12 SUPPLY AND RETURN AIR DUCT WITH 1" SOUND LINING UP TO RTU-3 ON THE ROOF. PROVIDE TRANSITION RISE TO UNIT OUTLETS.
- F-5 KITCHEN EXHAUST FAN.
- 8X8 TOILETTE EXHAUST DUCT UP TO THE GOOSE NECK ON ROOF.
- 10X10 DUCT UP TO MAKE UP AIR UNIT.
- 8ø EXHAUST GOOSE NECK.
- 600 CFM KITCHEN HOOD.



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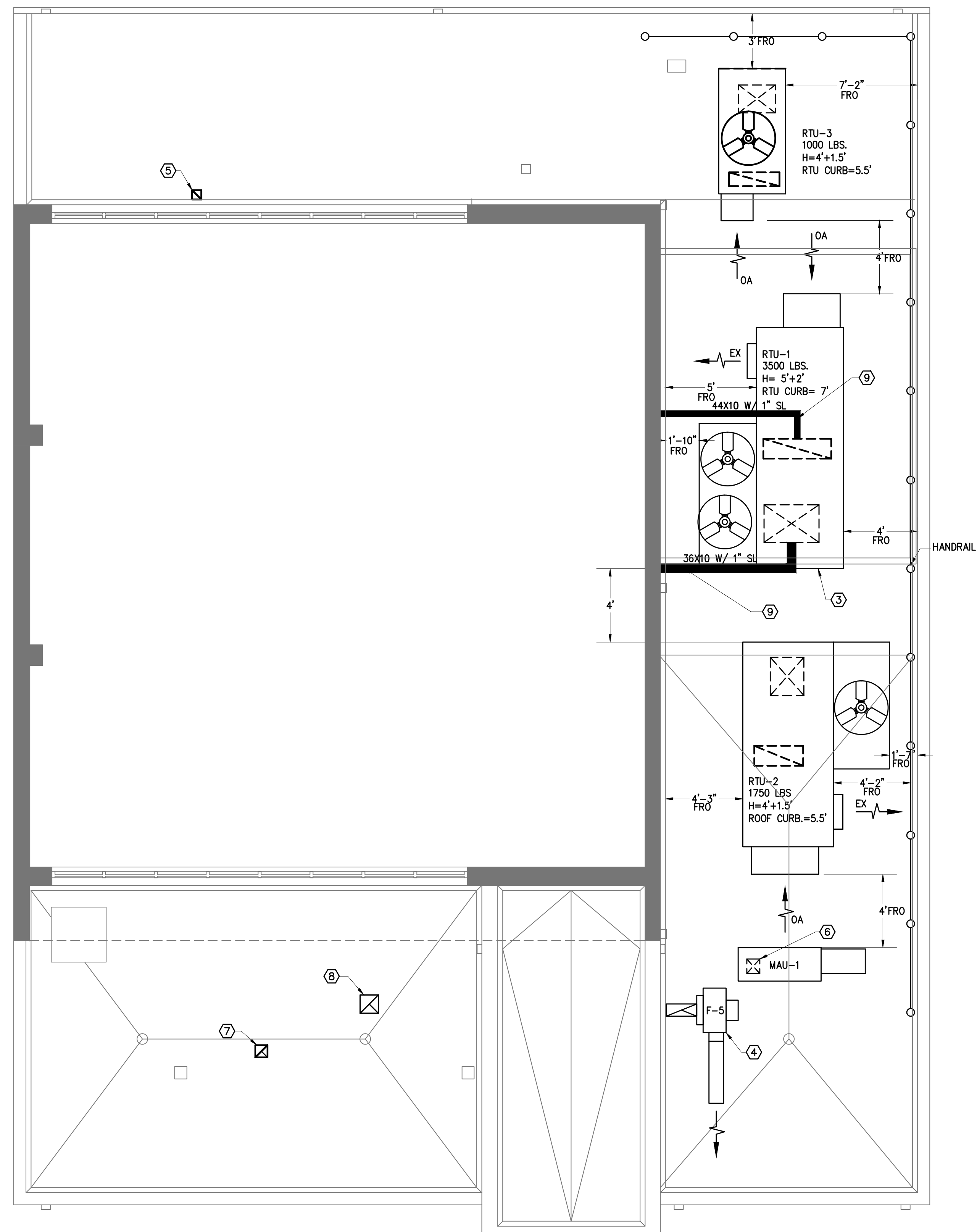
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MECHANICAL
BASEMENT AND FIRST
FLOOR PLAN

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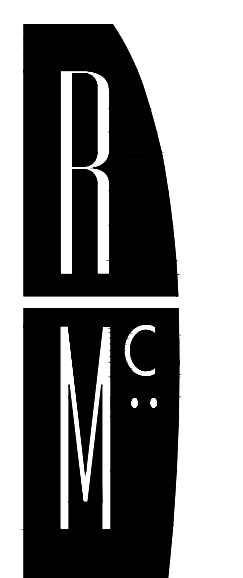
1 MECHANICAL ROOF PLAN
1/4"=1'-0"

GENERAL NOTES

- SEE DRAWING M0.01 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SPECIFIC NOTES

- NOT USED.
- NOT USED.
- RTU WITH 24" ROOF INSULATED HORIZONTAL DISCHARGE ROOF CURB.
- F-5 KITCHEN EXHAUST FAN, EXHAUST DISCHARGE WITH A MIN OF 3' ABOVE ROOF.
- 6X6 EXHAUST GOOSE NECK.
- 24X12 DUCT UP TO MAKE UP AIR UNIT.
- 8X8 EXHAUST GOOSE NECK.
- 8x8 EXHAUST GOOSE NECK.
- DUCTS ABOVE ROOF.



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ROOF PLAN

Sheet Number:
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ROOFTOP UNIT SCHEDULE

UNIT DESIG.	AREA SERVED	TOTAL CFM	MIN. OA CFM	COOLING DATA					GAS HEATING			SUPPLY FAN			EXHAUST FAN				COMBUSTION FANS		CONDENSER FANS		COMPRESSORS				ELECTRICAL DATA				MIN SEER	WEIGHT (LBS)	BASIS OF DESIGN AAOB
				TMBH	SMBH	EAT 'FDB/'FWB	LAT UNIT 'FDB/'FWB	OUT SIDE AIR 'FDB/'FWB	MBH INPUT	MBH OUTPUT	STAGES HEAT	E.S.P. "H ₂ O	NO.OF FAN	HP	E.S.P. "H ₂ O	NO.OF FAN	HP	V/PH	QTY	HP (EA.)	QTY	HP (EA.)	QTY	RLA	LRA	FLA	MCA	MOC	V/PH				
RTU-1	SANCTUARY	2485	1545	166.7	83.1	78.6/70.3	49.6/48.1	95/75	195.0	156.0	1	2.0	1	3.0	2.0	1	2	208/3	1	0.09	2	0.75	2	(1) @24 (1) @25	-	78	85	100	208/3	11.1	2497	RN-015-8	
RTU-2	FELLOWSHIP HALL	2055	1310	86.7	55.9	80.5/67.6	53.2/51.5	95/78	90.0	72.9	2	2.0	1	2.0	0.5	1	1	208/3	1	0.09	1	0.75	1	24	-	42	48	70	208/3	11.4	1453	RN-008-8	
RTU-3	OFFICE/BISHOP	730	300	39.1	22.5	85.2/72.0	54.3/53.0	95/78	60.0	48.6	1	1.5	1	1.0	-	-	-	-	1	0.09	1	0.33	1	11.7	-	21	24	35	208/3	15	773	RQ-008-8	

- NOTES:
- PROVIDE BUILT IN DISCONNECT SWITCH.
 - PROVIDE 30% EFFICIENCY PREFILTERS & 85% FINAL FILTER.
 - PROVIDE SINGLE PHASING PROTECTION.
 - PROVIDE 18" HIGH FULLY INSULATED ROOF CURB.
 - PROVIDE UNITS WITH 100% OUTSIDE AIR ECONOMIZER.
 - PROVIDE LOW AMBIENT KIT TO O.F.
 - PROVIDE DIGITAL SCROLL COMPRESSORS.
 - PROVIDE UNIT WITH THERMOSTATIC EXPANSION VALVE.
 - PROVIDE SERVICE OUTLET FOR ROOFTOP UNITS WITH SEPARATE POWER SOURCE.
 - PROVIDE STAINLESS STEEL HEAT EXCHANGER AND DRAIN PAN.
 - NOT USED.
 - PROVIDE ONE COMPRESSOR PER CIRCUIT PIGGY BACK COMPRESSORS ARE NOT ACCEPTABLE.
 - PROVIDE AGA APPROVED GAS TRAIN.
 - RUN CONDENSATE DRAIN LINE TO NEAREST ROOF DRAIN.
 - UNITS SHALL BE CONSTRUCTED AT DOUBLE WALL 18 GAGE EXTERNAL AND 26 GAGE INTERNAL.
 - UNITS TO BE PROVIDED WITH FULL PIANOHINGES AT ALL ACCESS DOORS.
 - PROVIDE TAMPER PROOF LATCHES.
 - COMPRESSOR 5 YEARS STANDARD WARRANTY.
 - PROVIDE R 410 AIR REFRIGERANT.
 - RTU-1&2 PROVIDE DUCT SMOKE DETECTORS IN SUPPLY AND RETURN PLENUMS ATTACHED TO THE UNIT. UPON ACTIVATION OF DUCT SMOKE DETECTOR, RTU SHALL SHUT DOWN AND DETECTOR SHALL SEND AN ALARM SIGNAL TO THE UNIT'S ALARM SYSTEM.
 - THE MANUFACTURER SHALL HAVE MINIMUM OF 10 YEARS EXPERIENCE, AND THE MODEL TYPE OF THE ROOFTOP UNIT SHALL HAVE MINIMUM OF 10 YEARS OF PRODUCTION.
 - PROVIDE RTU-1 WITH ENTHALPY WHEEL.

DIFFUSER AND GRILLE SCHEDULE

TYPE	SERVICE	NECK/ INLET SIZE (IN.)	OVERALL SIZE OR LENGTH (IN.)	SLOT NO.-WIDTH	CFM RANGE	NC LEVEL	BASIS OF DESIGN TITUS
LOUVER FACE	SUPPLY AIR	6"	24"x24"	N/A	0-110	20	MODEL TMS
LOUVER FACE	SUPPLY AIR	8"	24"x24"	N/A	111-230	20	MODEL TMS
LOUVER FACE	SUPPLY AIR	10"	24"x24"	N/A	231-410	20	MODEL TMS
PERFORATED FACE	RETURN AIR	22"x22"	24"x24"	N/A	0-1500	20	MODEL PAR
WALL/CLG. REGISTER	SUPPLY AIR	-	6"x6"	N/A	0-100	20	MODEL 350 RL
WALL/CLG. REGISTER	SUPPLY AIR	-	12"x6"	N/A	101-200	20	MODEL 350 RL
WALL/CLG. REGISTER	RETURN/EXHAUST	-	6"x6"	N/A	0-100	20	MODEL 350 RL
WALL/CLG. REGISTER	RETURN/EXHAUST	-	12"x6"	N/A	101-200	20	MODEL 350 RL
LINEAR SUPPLY	SUPPLY AIR	8"	4'L x 6"W	4-1"	0-200	20	MODEL ML-39 W/1" S.L.&4'LX8"WX10"H PLENUM
LINEAR SUPPLY	SUPPLY AIR	10"	4'L x 6"W	4-1"	201-300	20	MODEL ML-39 W/1" S.L.&4'LX8"WX12"H PLENUM
LINEAR SUPPLY	SUPPLY AIR	12"	6'L x 6"W	4-1"	301-450	20	MODEL ML-39 W/1" S.L.&6'LX8"WX14"H PLENUM
LINEAR SUPPLY	RETURN AIR	-	15'L x 6"W	3-1"	0-1200	23	MODEL ML-39 (NO PLENUM)

NOTES:
1. PROVIDE OPPOSED BLADE VOLUME DAMPERS FOR ALL SUPPLY DIFFUSERS.

ELECTRIC WALL HEATER SCHEDULE

TAG#	AREA SERVED	CAPACITY		ELECTRICAL V/PH/HZ	BASIS OF DESIGN Q-Mark MODEL #	REMARK
		BTU/H	KW			
EWH-1	VESTIBULE	-	3.0	208/1/60	-	-
EWH-2	STAIR	5010	1.5	208/1/60	AWH-4000 RECESSED	SEE NOTE 1
UH-1	SPRINKLER ROOM	-	1.5	208/1/60	- CEILING HUNG	SEE NOTE 1,3
EWH-3	BATHROOM	5010	1.5	208/1/60	AWH-4000 SURFACE	SEE NOTE 1

1. PROVIDE WITH BUILT-IN THERMOSTAT, DISCONNECT SWITCH AND THERMAL OVERHEAT PROTECTION.
2. PROVIDE UNITS WITH 1" THROWAWAY FILTERS.
3. PROVIDE CEILING BRACKET.

EXHAUST FAN SCHEDULE

TAG#	AREA SERVED	TYPE	DRIVE	CFM	RPM	WATTS (HP)	E.S.P. (IN. WG)	HP	ELECTRICAL (V/PH/HZ)	FLA	SONES	BASIS OF DESIGN COOK	REMARK
F-1,2,3	TOILET ROOMS	CEILING IN-LINE	DIRECT	75	1000	98	0.375	-	120/1/60	-	1.1	COOK GEMENI-GC-144	SEE NOTE 1, 2
F-4	MECH/ELEC. ROOM	PRV	DIRECT	200	1000	(1/10)	0.5	-	120/1/60	-	3.0	COOK VCR-150VH4B	SEE NOTE 1,4
F-5	KITCHEN	-	-	1483	1335	-	1.250	0.750	208/3/60	13.0	-	CAPTIVEAIRE DUBSHFA	-

NOTE:
1. PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATORS AND BACK DRAFT DAMPER.
2. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH.
3. PROVIDE FAN WITH HEAT RESISTANCE BEARING FOR HOOD EXHAUST FAN AND SHALL BE UL LISTED FOR HOOD APPLICATION.
4. INTERLOCK EXHAUST FAN WITH RTU-2.

MAKE UP AIR UNIT SCHEDULE

UNIT DESIG	CFM	GAS HEATING			SUPPLY FAN			ELECTRICAL DATA				MIN SEER	WEIGHT (LBS)	BASIS OF DESIGN CAPTIVE-AIRE	
		MBH INPUT	MBH OUTPUT	STAGES HEAT	E.S.P. "H ₂ O	NO.OF FAN	HP	V/PH	FLA	MCA	MOP				V/PH
MAU-1	1186	9.2	8.4	-	0.4	1	2.0	208/3	?	-	-	208/3	-	332	D76

NOTES:
1. PROVIDE BUILT IN DISCONNECT SWITCH.
2. PROVIDE 30% EFFICIENCY PRE-FILTERS & 85% FINAL FILTER.
3. PROVIDE 18" HIGH FULLY INSULATED ROOF CURB.
4. PROVIDE UNITS WITH 100% OUTSIDE AIR ECONOMIZER.
5. PROVIDE STAINLESS STEEL HEAT EXCHANGER.
6. PROVIDE AGA APPROVED GAS TRAIN.
7. UNIT SHALL BE CONSTRUCTED AT DOUBLE WALL 18 GAGE EXTERNAL AND 26 GAGE INTERNAL.
8. UNITS TO BE PROVIDED WITH FULL PIANOHINGES ALL ACCESS DOOR.
9. PROVIDE TAMPER PROOF LATCHES.
10. NOT USED.
11. THE MANUFACTURER SHALL HAVE MINIMUM OF 10 YEARS EXPERIENCE, AND THE MODEL TYPE OF THE ROOFTOP UNIT SHALL HAVE MINIMUM OF 10 YEARS OF PRODUCTION.



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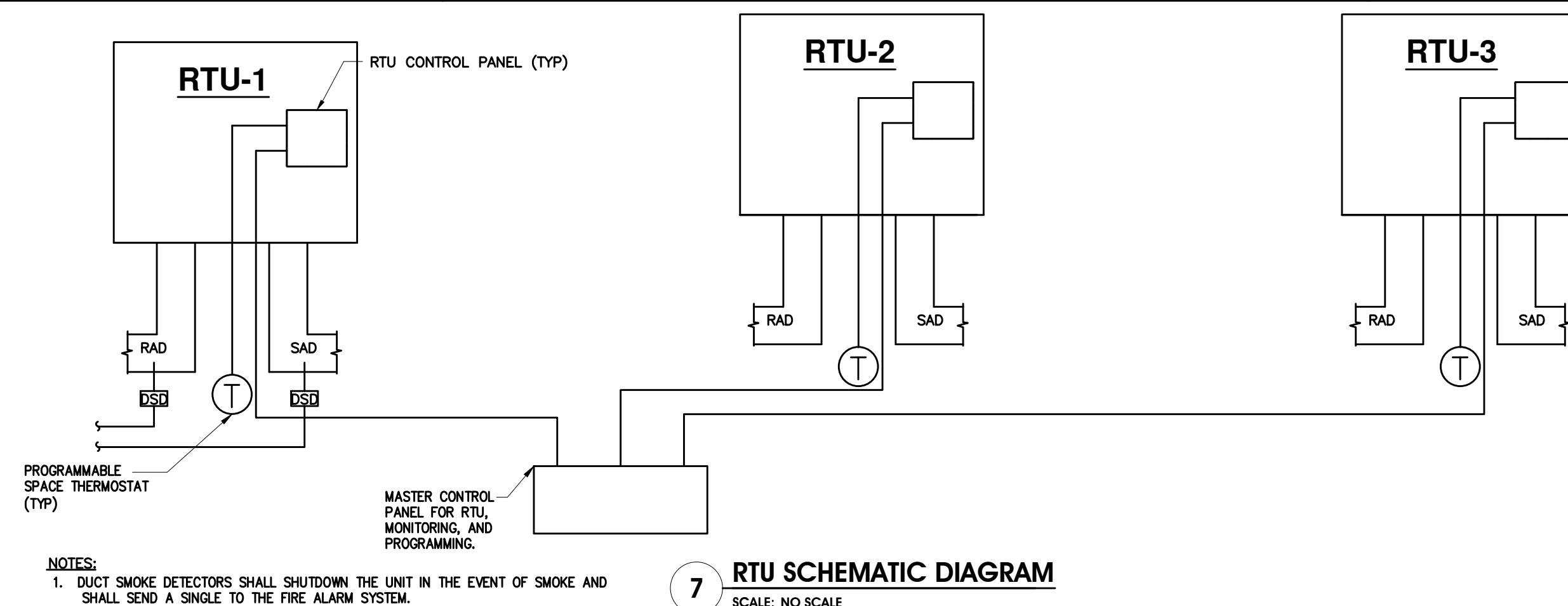
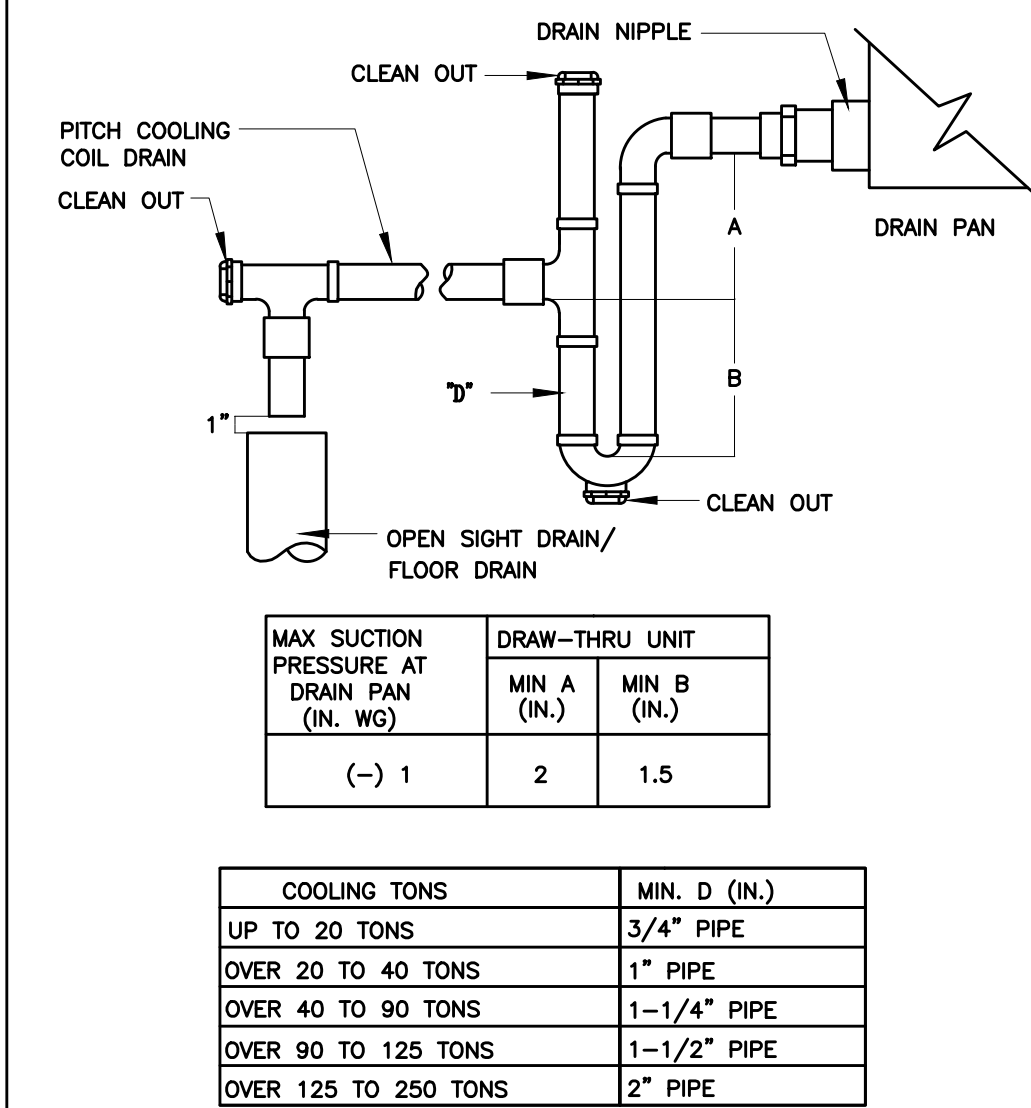
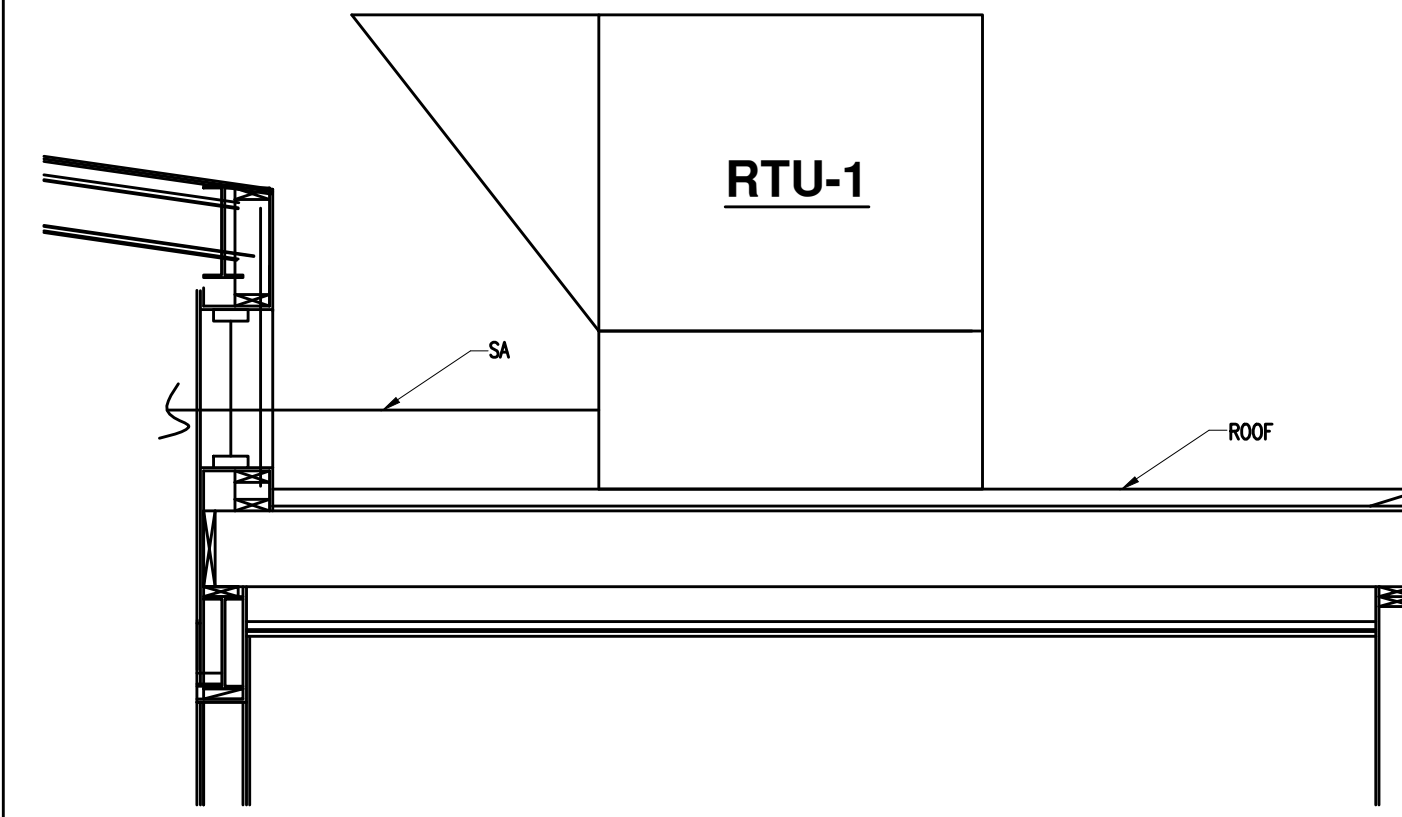
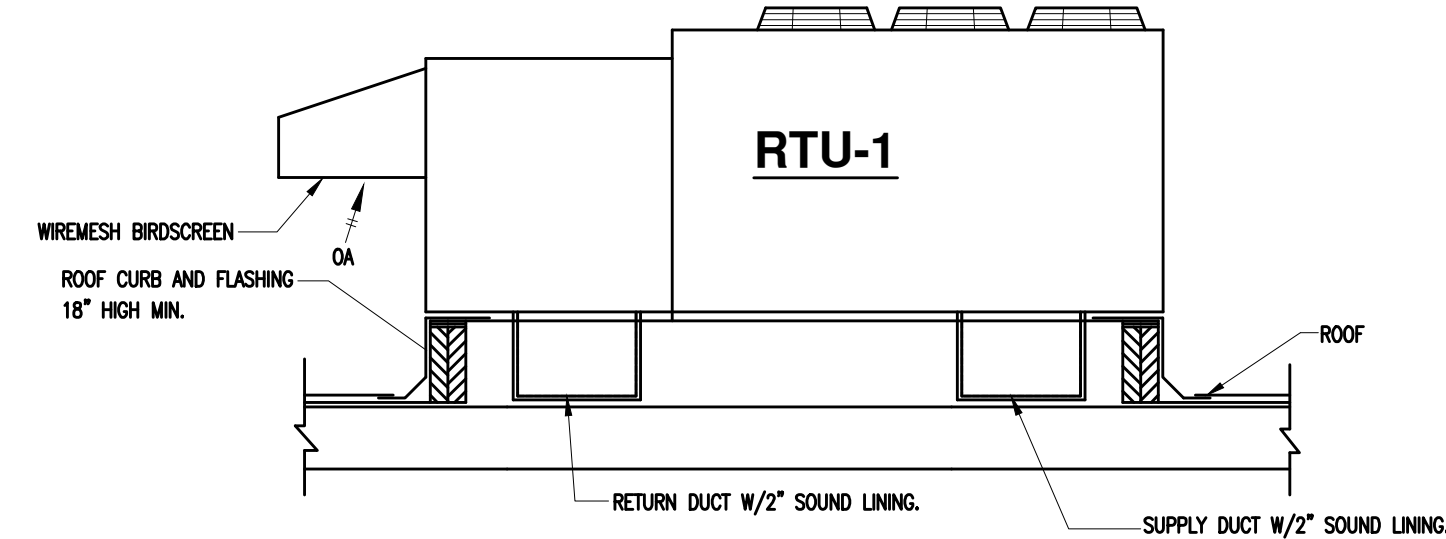
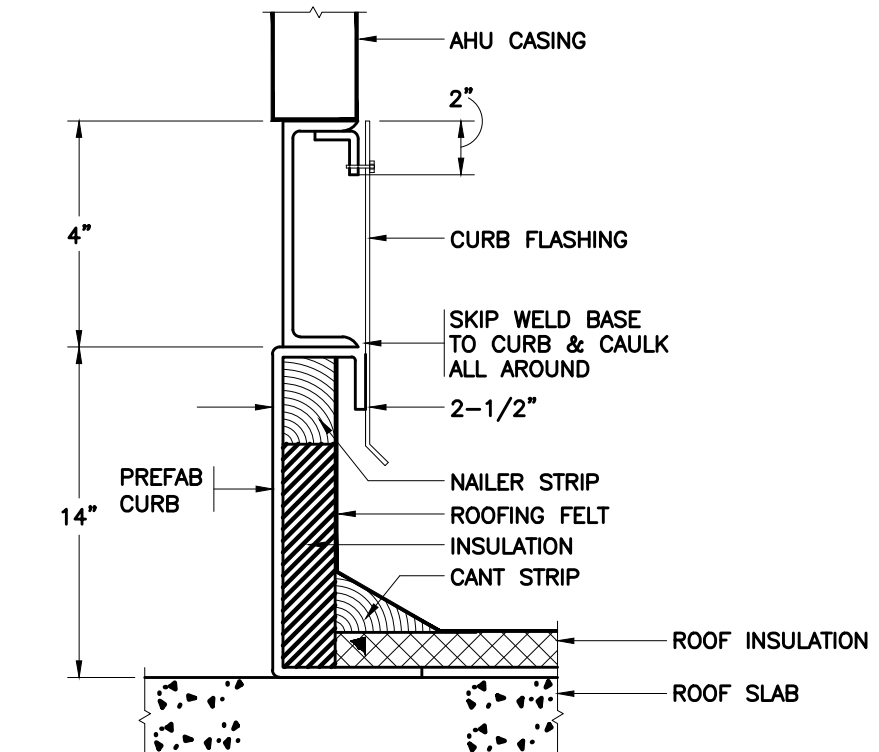
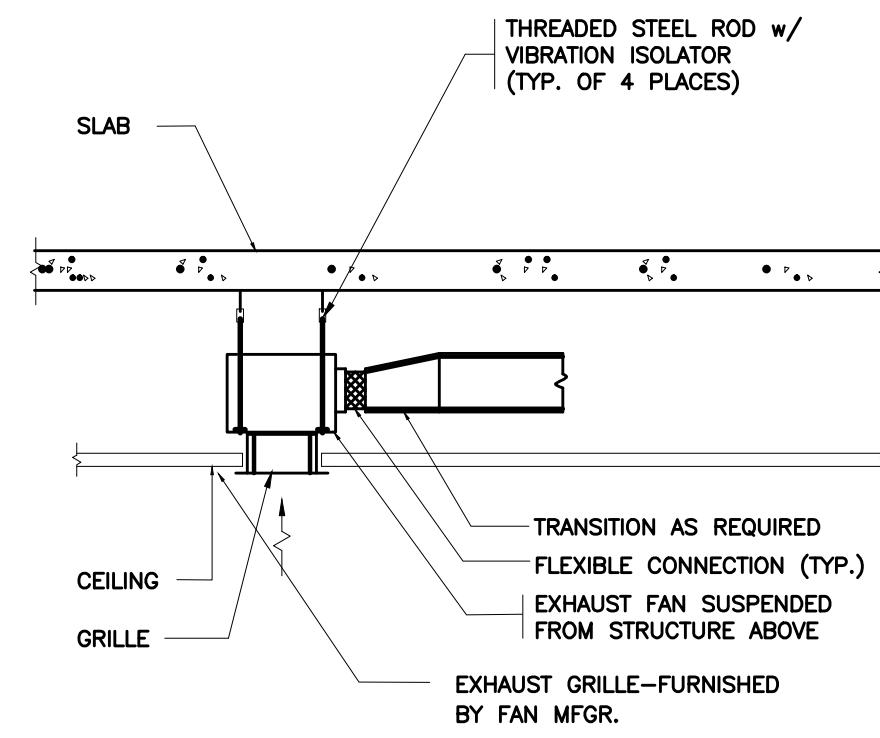
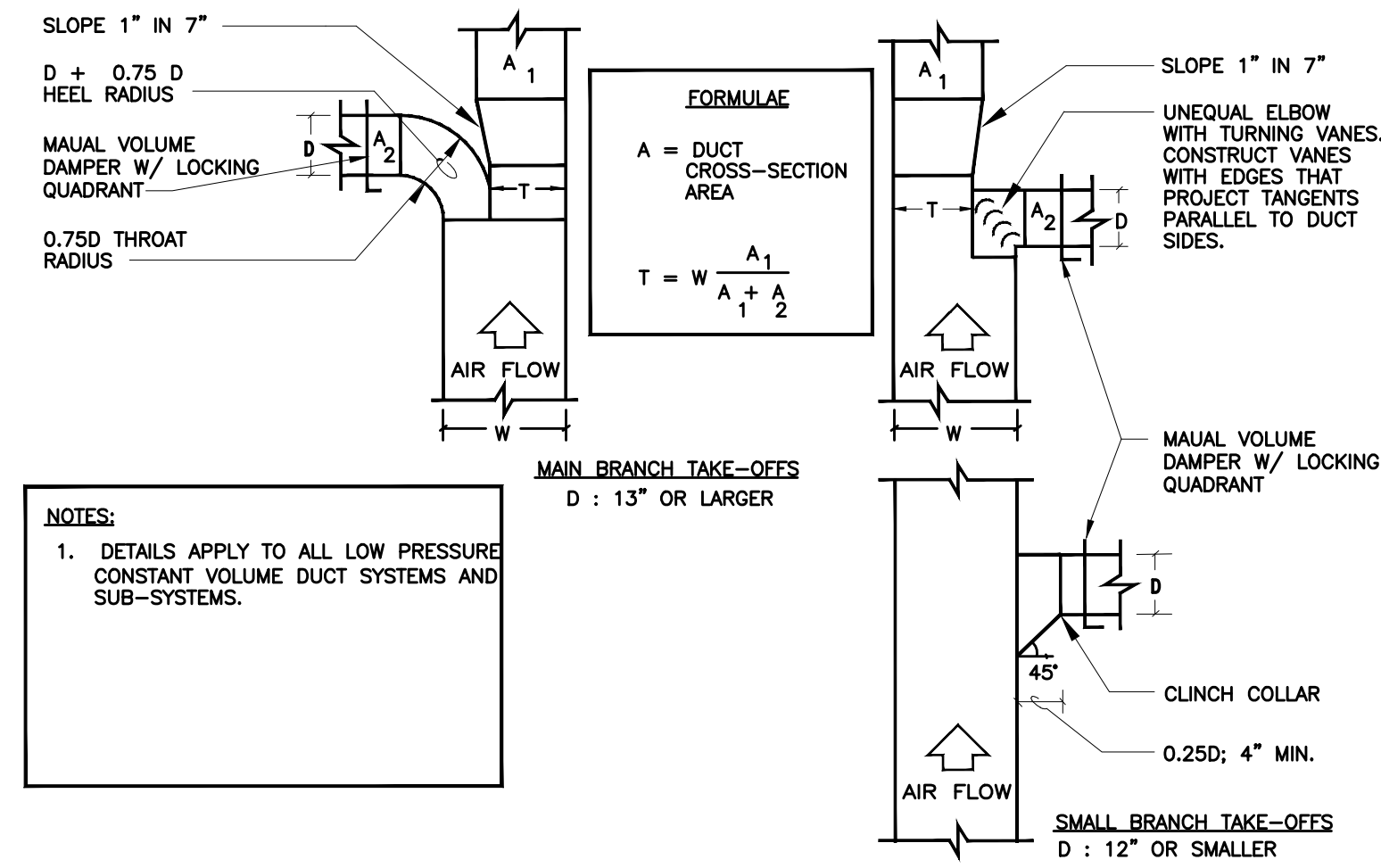
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PLUMBING NOTES

- THE INTENT OF THESE DRAWINGS IS FOR CONTRACTOR TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR IS OBLIGATED TO EXAMINE PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THESE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED.
- BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH WASHINGTON GAS COMPANY FOR NEW NATURAL GAS SERVICE ENTRY TO THE STRUCTURE. WASHINGTON GAS CO. SHALL FURNISH AND INSTALLED GAS METER/REGULATOR. EXTERIOR RELOCATION AND ALL OTHER ASPECTS REQUIRED FOR THE REQUIRED NATURAL GAS SERVICE REVISIONS.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
- ALL VENT AND FLUE OUTLETS SHALL BE 10'-0" MINIMUM HORIZONTALLY AND 2'-0" MINIMUM VERTICALLY FROM ANY FRESH AIR INTAKES.
- INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL CODES, RULES AND REGULATIONS GOVERNING THESE PROJECTS.
- DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND NAMES), MATERIALS, SIZES, LOCATING AND HOOK-UP POINTS AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
- UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKING AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW TO REMAIN.
- INSTALL PDI WATER HAMMER ARRESTORS AT SINK. ALL FIXTURES SHALL HAVE STOP COCKS.
- PIPING LAYOUT IS DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES AND WALL/CEILING ACCESS PANELS.
- COMPLY WITH 2003 IPC PLUMBING CODE AND APPLICABLE LOCAL CODES.
- PROVIDE VALVES AND UNIONS WHEN CONNECTING PIPING TO EQUIPMENT. LOCATE VALVES FOR EASY ACCESS AND SERVICING OF EQUIPMENT. PROVIDE ACCESS PANELS TO ALL SHUT-OFF VALVES.
- PRESSURE TEST ALL NEW WATER PIPES, MINIMUM OF 24 HOURS BEFORE APPLYING PIPE INSULATION. ALL TESTS SHALL BE IN COMPLIANCE WITH REQUIREMENTS OF THE LOCAL WATER AUTHORITY.
- IN THE EVENT OF CONFLICT BETWEEN VARIOUS SECTIONS OF CONSTRUCTION DOCUMENTS, THE MOST STRINGENT OF THE OPTIONS SHALL APPLY FOR BIDDING PURPOSE. AFTER AWARD OF CONTRACT BUT BEFORE STARTING DESIGN/CONSTRUCTION, CONTRACTOR SHALL REQUEST CLARIFICATIONS WITH BID ON ANY CONFLICTING INFORMATION FROM THE OWNER.
- PROVIDE DIELECTRIC FITTINGS OTHER THAN DIELECTRIC UNIONS WHEN CONNECTING DISSIMILAR MATERIAL PIPING. DIELECTRIC UNIONS NOT PERMITTED.
- ALL CONCRETE FLOORS, SLABS, BRICK AND BLOCK WALL PENETRATIONS SHALL BE SLEEVED AND FIRE STOPPED.
- PROVIDE GATE VALVE OR BALL VALVE FOR ALL CW AND HW BRANCH TAKE-OFFS.

SYMBOLS & ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATIONS
	SOIL OR WASTE PIPING		PRESSURE GAGE	ABV ABOVE
	VENT PIPING		THERMOMETER	AD AREA DRAIN
	COLD WATER PIPING		TEMPERATURE & PRESSURE RELIEF VALVE	AFF ABOVE FINISH FLOOR
	HOT WATER PIPING		VACUUM BREAKER	AFG ABOVE FINISH GRADE
	HOT WATER RECIRCULATING PIPING		WATER HAMMER ARRESTER	AP ACCESS PANEL
	GAS PIPING		LETTER INDICATES PDI SIZE	ARV ACID RESISTANT VENT
	PIPE DOWN OR DROP		HOSE BIBB, WALL HYDRANT	ARW ACID RESISTANT WASTE
	PIPE UP OR RISE		FLOOR DRAIN	BFF BELOW FINISH FLOOR
	CAPPED OR PLUGGED PIPE		KEY NOTE	BFP BACKFLOW PREVENTER
	UNION		METER (GAS/WATER/FIRE)	CLG CEILING
	WALL CLEANOUT		PUMP	CO. CLEANOUT
	SHUT-OFF VALVE		BACKWATER VALVE	DCW DOMESTIC COLD WATER
	SHUTOFF VALVE IN RISE OR DROP		RISER/DETAIL DESIGNATION	DHW DOMESTIC HOT WATER
	CHECK VALVE SHUTOFF VALVE IN RISE OR DROP		SD=STORM DRAIN	DFW DRAINAGE FIXTURE UNITS
	BALANCING VALVE		G=NATURAL GAS	CW COLD WATER
	FLOOR CLEANOUT		S=SANITARY WASTE/VENT	DN DOWN

MINIMUM DRAINAGE PIPE SLOPE	
WASTE PIPE SIZE (INSIDE DIAMETER IN INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2 1/2 OR LESS	1/4 UNLESS NOTED OTHERWISE
3 OR LARGER	1/8 UNLESS NOTED OTHERWISE

BACKFLOW PREVENTERS

- DOMESTIC WATER SERVICE, DOUBLE CHECK TYPE, 2" DIAMETER, ASSE 1015 COMPLIANT
- FIRE SERVICE, DOUBLE CHECK DETECTOR METER TYPE, W/WASA COMPLIANT AMR, 4" DIAMETER, ASSE 1048 COMPLIANT

PLUMBING FIXTURE SCHEDULE

FIXTURE	TAG	HW	CW	TRAP	SAN	VENT	REMARKS
WATER CLOSET	P-1	-	1"	INTEGRATED	4"	2"	WALL MOUNTED, A/C SENSOR TYPE FLUSH VALVE TYPE W/BOX MOUNT (HARD WIRE) REMOTE TRANSFORMER, 1.28 GAL. PER FLUSH
WATER CLOSET	P-1A	-	1"	INTEGRATED	3"	1 1/2"	ADA - WALL MOUNTED, A/C SENSOR TYPE FLUSH VALVE TYPE W/BOX MOUNT (HARD WIRE) REMOTE TRANSFORMER, 1.28 GAL. PER FLUSH
WATER CLOSET	P-1B	-	1/2"	INTEGRATED	3"	1 1/2"	ADA - FLOOR MOUNTED, TANK TYPE, 1.28 GAL. PER FLUSH
LAVATORY	P-2	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	COUNTER MOUNT TYPE A/C SENSOR TYPE FAUCET TYPE W/HARD WIRE REMOTE TRANSFORMER, 0.5 GPM
LAVATORY	P-2A	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	WALL MOUNT TYPE A/C SENSOR TYPE FAUCET TYPE W/HARD WIRE REMOTE TRANSFORMER, 0.5 GPM
URINAL	P-3	-	1/2"	INTEGRATED	3"	1 1/2"	ADA - WALL MOUNTED, A/C SENSOR TYPE FLUSH VALVE
HANDSINK	P-4	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	FIXTURE BY KITCHEN CONTRACTOR, PLUMBER TO PROVIDE ROUGH-INS AND FINAL CONNECTIONS
3-COMP. SINK	P-5	3/4"	3/4"	-	2", INDIRECT	1 1/2"	FIXTURE BY KITCHEN CONTRACTOR, PLUMBER TO PROVIDE ROUGH-INS AND FINAL CONNECTIONS
DRINKING FOUNTAIN	P-6	-	1/2"	1 1/2"	1 1/2"	1 1/2"	BARRIER FREE
MOP RECEPTOR	P-7	1/2"	1/2"	3"	3"	1 1/2"	FIXTURE BY KITCHEN CONTRACTOR, PLUMBER TO PROVIDE ROUGH-INS AND FINAL CONNECTIONS
WALL HYDRANT	P-8	-	3/4"	-	-	-	NON-FREEZE WALL MOUNTED WITH VACUUM BREAKER
SHOWER	P-9	-	1/2"	2"	2"	1 1/2"	PROVIDE WITH ANTI-SCALD THERMOSTATIC MIXING VALVE.(ADA), SEE ARCHITECTURAL FOR ENCLOSURE
BAPTISMAL TUB	P-10	INTEGRAL HEATER	1/2"	2"	2"	1 1/2"	FIXTURE NOT BY PLUMBER, PLUMBER TO PROVIDE ROUGH-INS AND FINAL CONNECTIONS. PROVIDE WITH ANTI-SCALD THERMOSTATIC MIXING VALVE.(ADA). WITH INTEGRAL INSTANTANEOUS WATER HEATER AND LITTLE GIANT #5000 AUTO FILL, AUTO DRAIN, AUTO HEAT.
FLOOR DRAIN	FD-1	-	-	3"	3"	1 1/2"	FLOOR DRAIN WITH TRAP PRIMER CONNECTION
FLOOR DRAIN	FD-2	-	-	4"	4"	2"	FLOOR DRAIN WITH TRAP PRIMER CONNECTION

1. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.

WATER HEATER SCHEDULE

UNIT NO.	TYPE	STORAGE	HEATING	FLOW AT TEMPERATURE RISE (°F)	REMARKS
WH-1	NATURAL GAS	60 GALLONS	120 MBH	138 GPH AT 100°F	A.O. SMITH MODEL CYCLONE BTH-120, 95% EFFICIENCY WITH 3" FLUE SIZE.
WH-2	ELECTRIC	NONE-INSTANTANEOUS	9 KW, 208 VOLT, 1 PH	0.75 GPM @ 66°F RISE	STIEBEL ELTRON TEMPRA 12

NOTES:
1. PROVIDE PRESSURE RELIEF VALVE AND GAS SHUT-OFF VALVE.

INTERCEPTOR SCHEDULE

ABBREV.	DESCRIPTION	GPM	INLET AND OUTLET SIZE	H	L	W	DRAW-OFF	
GS-1	GREASE INTERCEPTOR	50	3	24 1/4"	35 1/2"	20 3/4"	-	J.R. SMITH MODEL 8050 GREASE SEPERATOR.

PUMP SCHEDULE

ABBREV.	DESCRIPTION	GPM	HEAD IN FEET	H.P	VOLT	PHASE	RPM	REMARK
SP-1	SUMP PUMP	50	37	0.5	120	1	3600	STANCOR MODEL SE-50 WITH AUXILIARY PUMP AND BATTERY BACK-UP
SP-2	SUMP PUMP	50	37	0.5	120	1	3600	STANCOR MODEL SE-50 WITH AUXILIARY PUMP AND BATTERY BACK-UP



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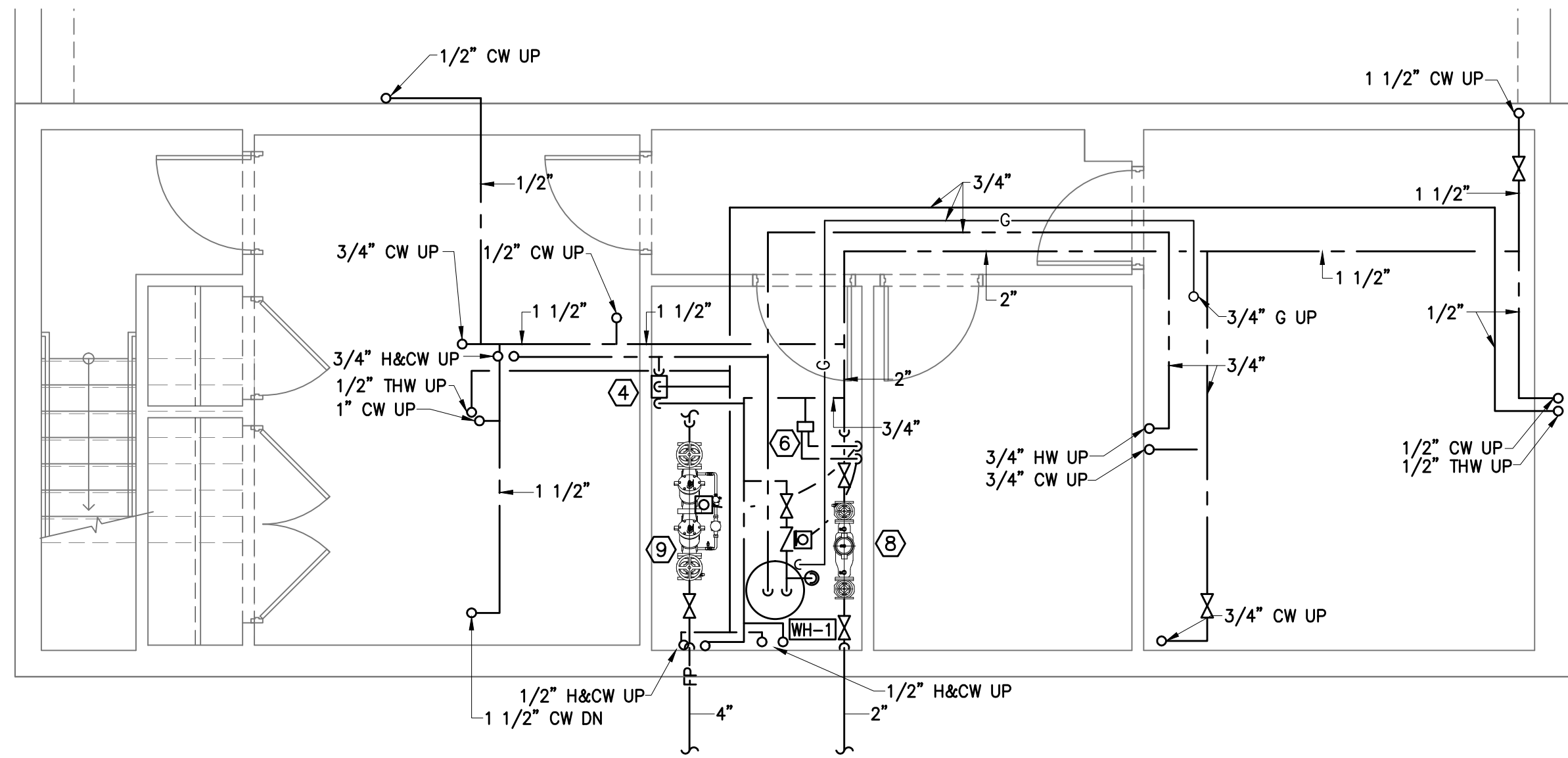
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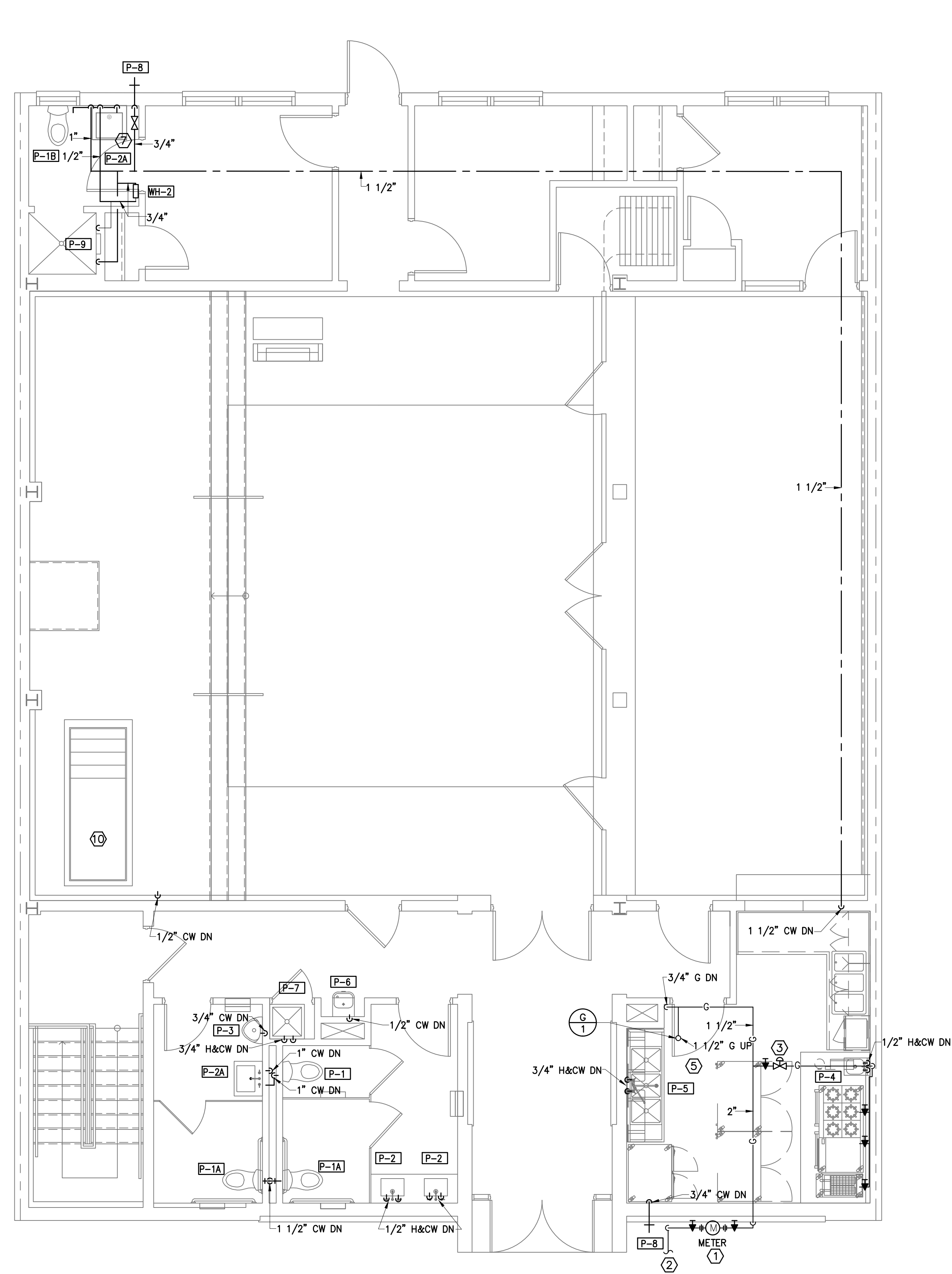
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PLUMBING COVER SHEET

Sheet Number:

P0.01



1 PLUMBING BASEMENT FLOOR - SUPPLY AND GAS PLAN
1/4"=1'-0"



2 PLUMBING FIRST FLOOR - SUPPLY AND GAS PLAN
1/4"=1'-0"

GENERAL NOTES

- REFER TO DRAWING P0.01 FOR GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
- COORDINATE ALL FLOOR PENETRATIONS AND BELOW SLAB PIPING WITH STRUCTURAL BEAMS.

SPECIFIC NOTES

- GAS METER AND PRESSURE REGULATOR SHALL BE PROVIDED AND INSTALLED BY WASHINGTON GAS CO.
- GAS METER AND SERVICE. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
- EMERGENCY GAS SHUT OFF SOLENOID VALVE. VALVE SHALL BE EMERGENCY SHUT OFF INTERLOCKED WITH FIRE SUPPRESSION SYSTEM.
- PROVIDE MIXING VALVE SET TO 110 DEGREES.
- FOR KITCHEN EQUIPMENT AND PLUMBING FIXTURES, REFER TO KITCHEN CONSULTANT DRAWINGS.
- PROVIDE TRAP PRIMER VALVE AND EXTEND TO FLOOR DRAINS.
- PROVIDE TRAP PRIMER VALVE FROM WATER CLOSET.
- DOMESTIC BACKFLOW PREVENTER. FOR INSTALLATION REFER TO DRAWING P3.01.
- FIRE PROT. DOUBLE CHECK DETECTOR ASSEMBLY. REFER TO DETAIL ON DRAWING P3.01.
- BAPTISMAL UNIT. NOT BY DIVISION 15. UNIT SHALL HAVE INTEGRAL LITTLE GIANT 5000 HEATERING, FILLING, AND DRAINING UNIT.



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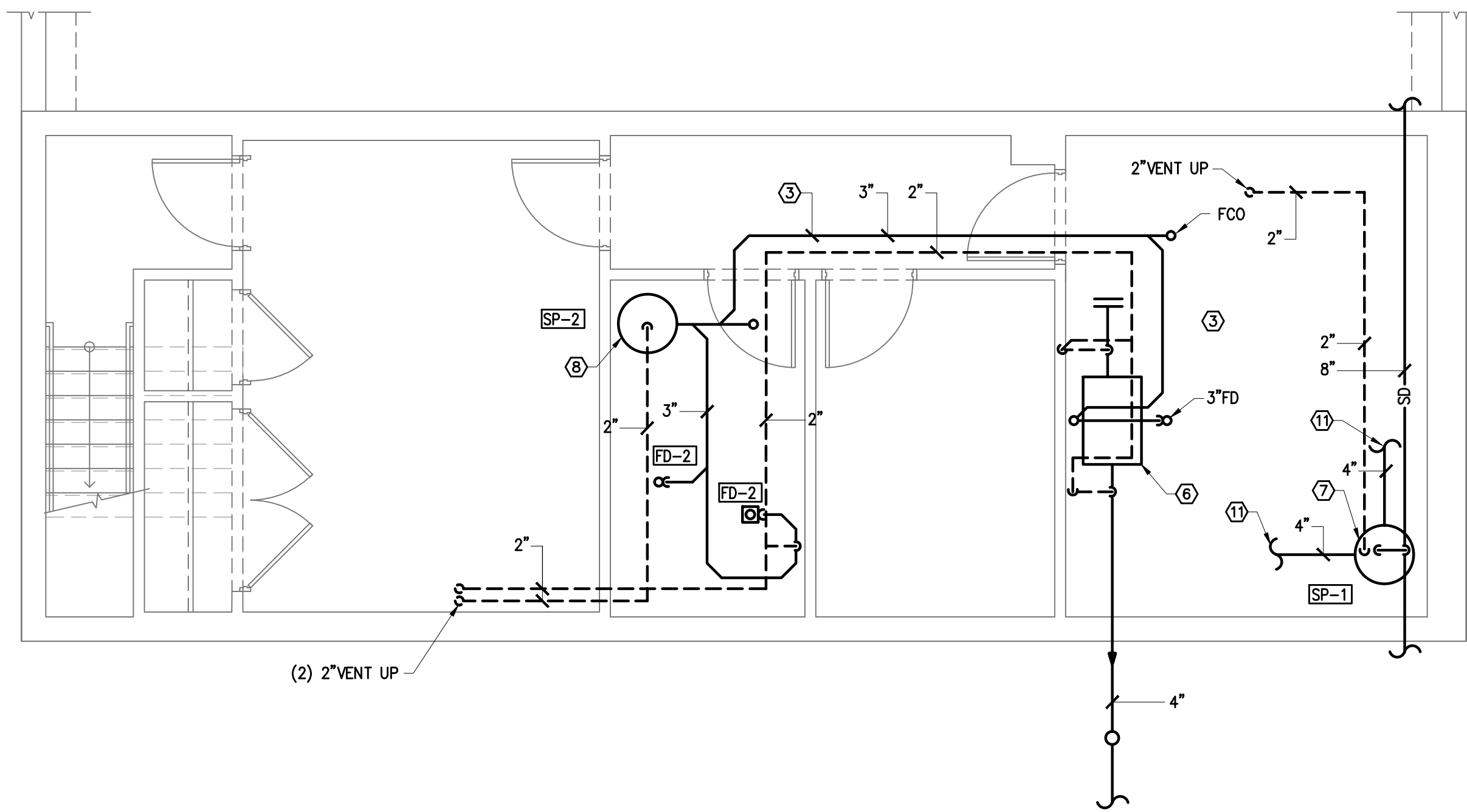
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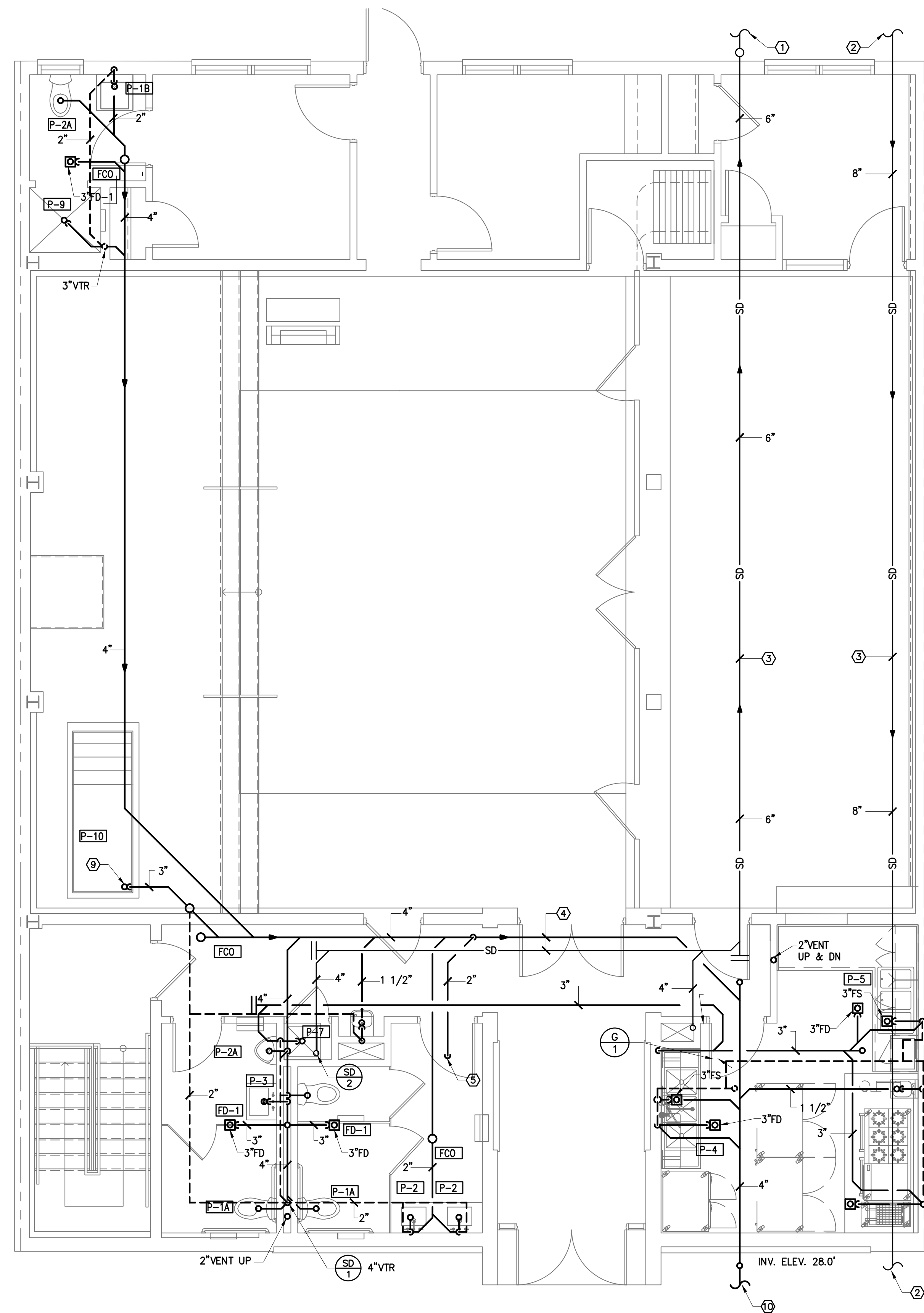
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PLUMBING
BASEMENT AND FIRST
FLOOR - SUPPLY AND GAS
PLAN

Sheet Number:

P1.01



1 PLUMBING BASEMENT FLOOR - DWV PLAN
1/4"=1'-0"



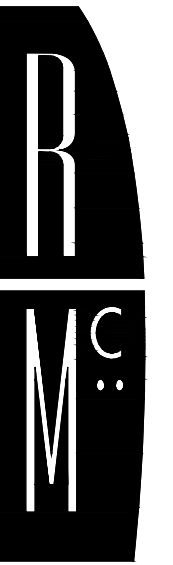
2 PLUMBING FIRST FLOOR - DWV PLAN
1/4"=1'-0"

GENERAL NOTES

1. REFER TO DRAWING P0.01 FOR GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. ALL SANITARY WASTE PIPING SHOWN IS BELOW FLOOR UON.
3. COORDINATE ALL FLOOR PENETRATIONS AND BELOW SLAB PIPING WITH STRUCTURAL BEAMS.

SPECIFIC NOTES

- ① EXTEND 6" STORM TO SAND FILTER. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
- ② 8" STORM MAIN FOR CONTINUATION REFER TO CIVIL DRAWINGS.
- ③ BELOW SLAB PIPING.
- ④ SANITARY AND STORM PIPING AT CEILING OF BASEMENT LEVEL.
- ⑤ 2" SUMP PUMP DISCHARGE FOR CONTINUATION REFER TO BASEMENT FLOOR PLAN.
- ⑥ PROVIDE INSTALL GREASE INTERCEPTOR. UNIT SHALL BE ELEVATED 3" ABOVE FINISH FLOOR.
- ⑦ FOUNDATION SUMP PUMP EXTEND 2 DISCHARGE AND CONNECT TO 8" STORM MAIN.
- ⑧ SUMP PUMPS EXTEND 2" DISCHARGE AND CONNECT TO SANITARY MAIN.
- ⑨ PROVIDE 3" FLOOR DRAIN TO BAPTISMAL POOL. BAPTISMAL UNIT. NOT BY DIVISION 15. UNIT SHALL HAVE INTEGRAL LITTLE GIANT 5000 HEATERING, FILLING, AND DRAINING UNIT.
- ⑩ 4" SANITARY LINE. FOR CONT. REFER TO CIVIL DRAWINGS.
- ⑪ 4" FOUNDATION PIPING FOR CONTINUATION REFER TO ARCH. DRAWINGS



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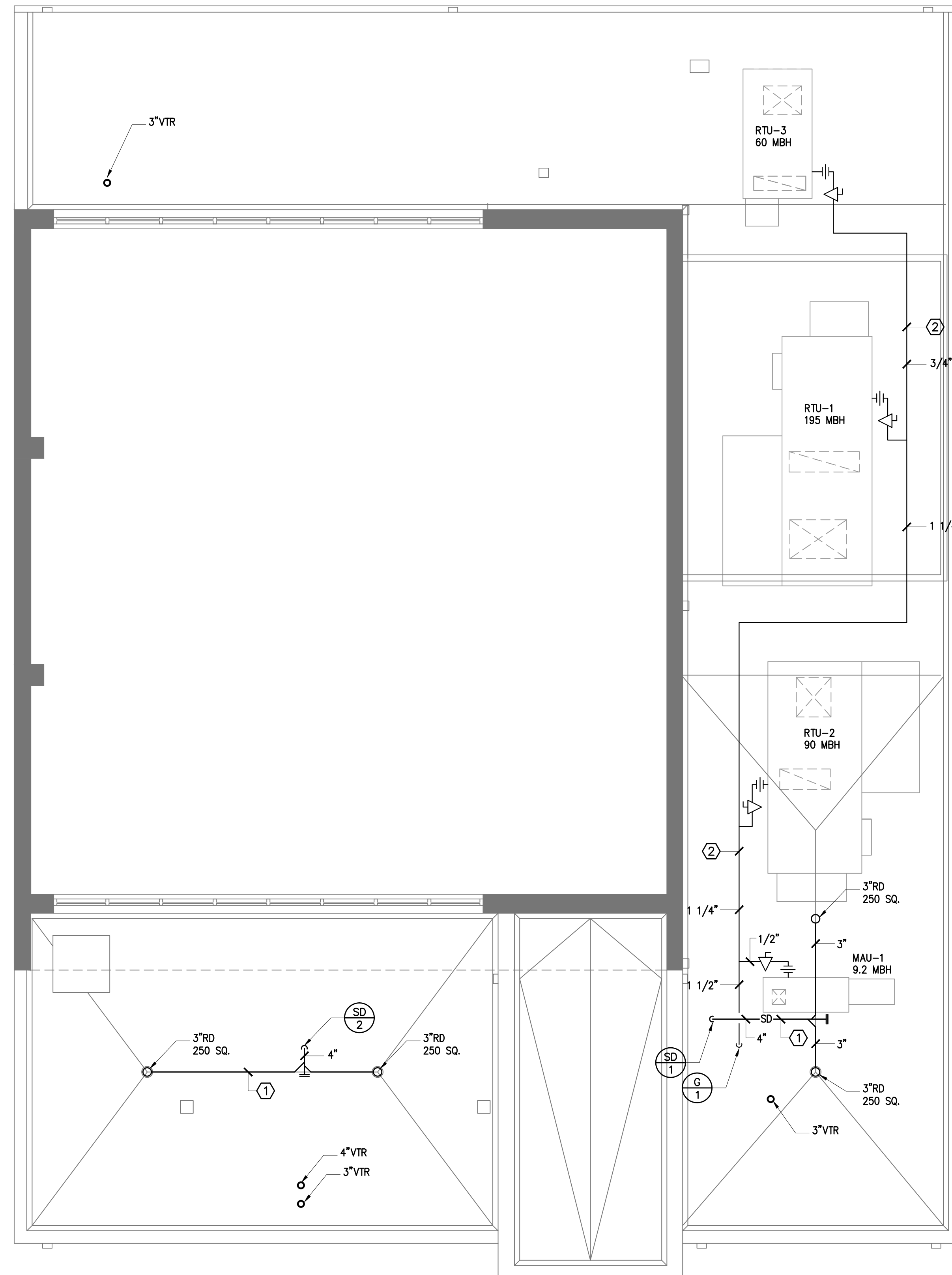
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PLUMBING
BASEMENT AND FIRST
FLOOR PLAN-DWV PLAN

Sheet Number:

P1.02



1 PLUMBING ROOF PLAN
1/4"=1'-0"

GENERAL NOTES

- SEE DRAWING P0.01 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SPECIFIC NOTES

- STORM PIPING AT FIRST FLOOR CEILING.
- RUN OUT GAS PIPING ON ROOF.



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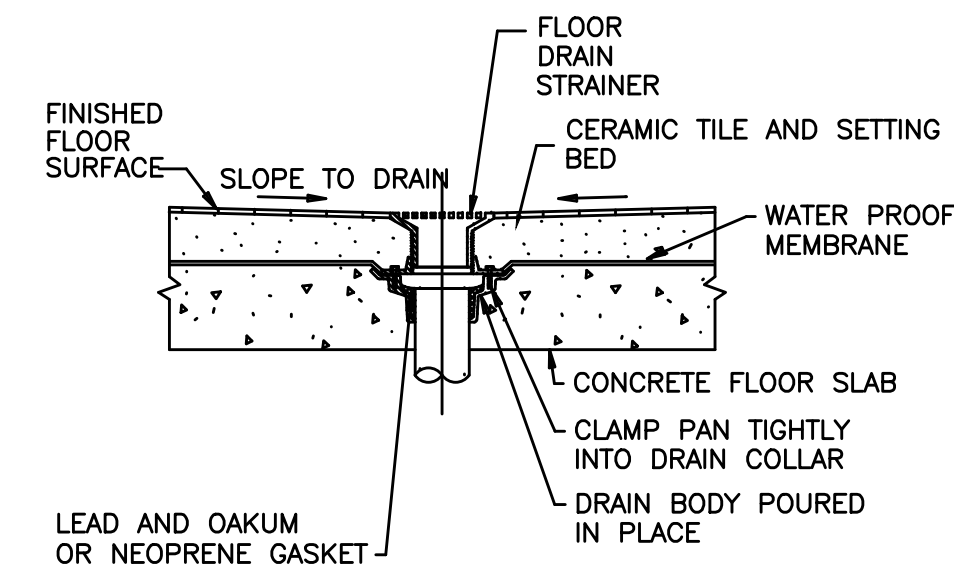
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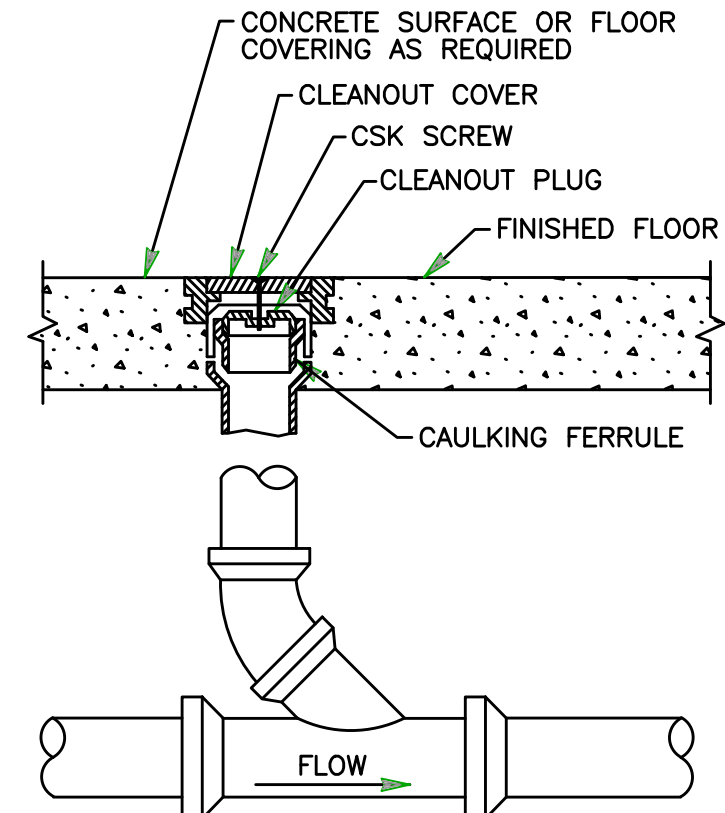
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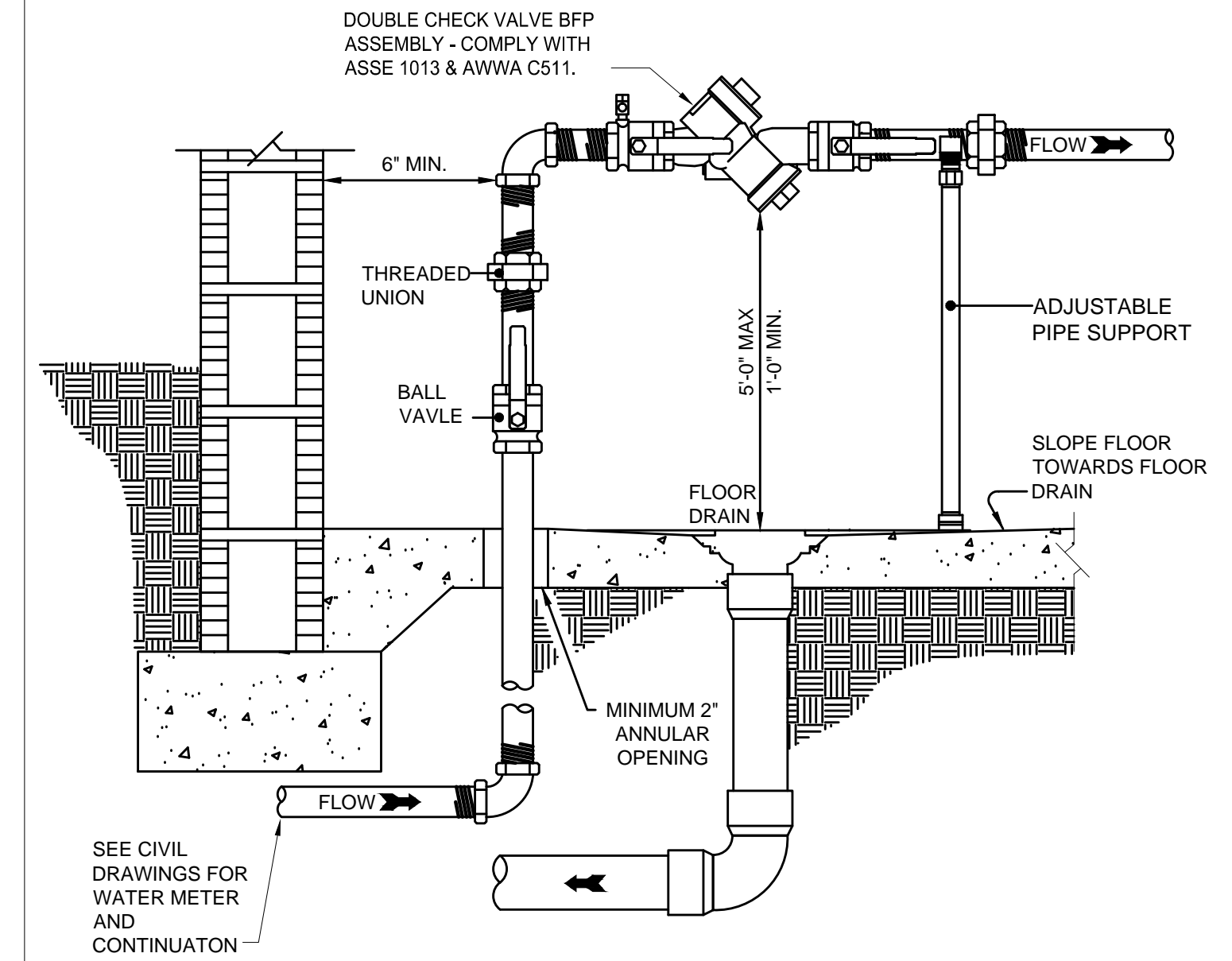
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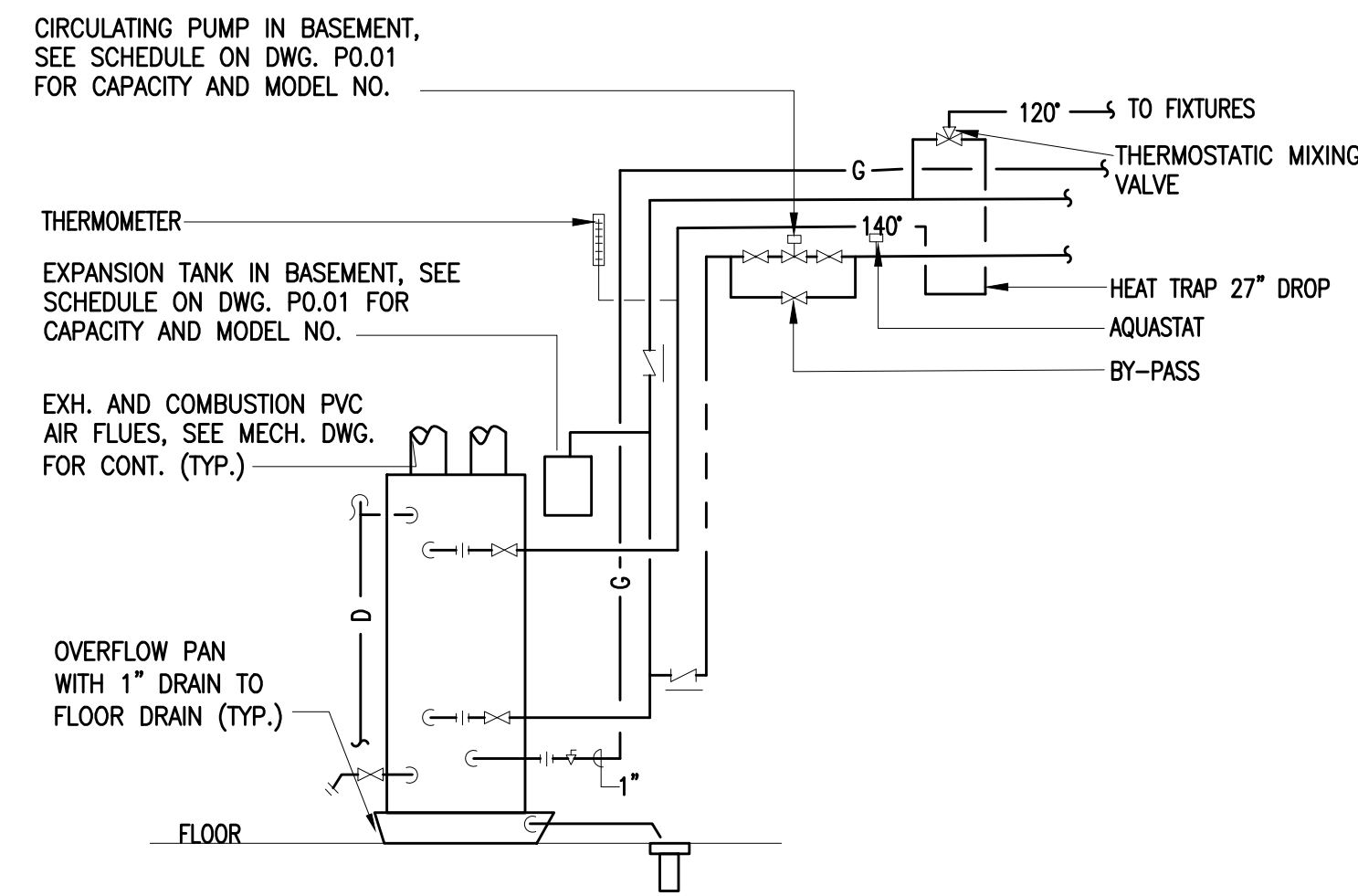
7 FLOOR DRAIN DETAIL
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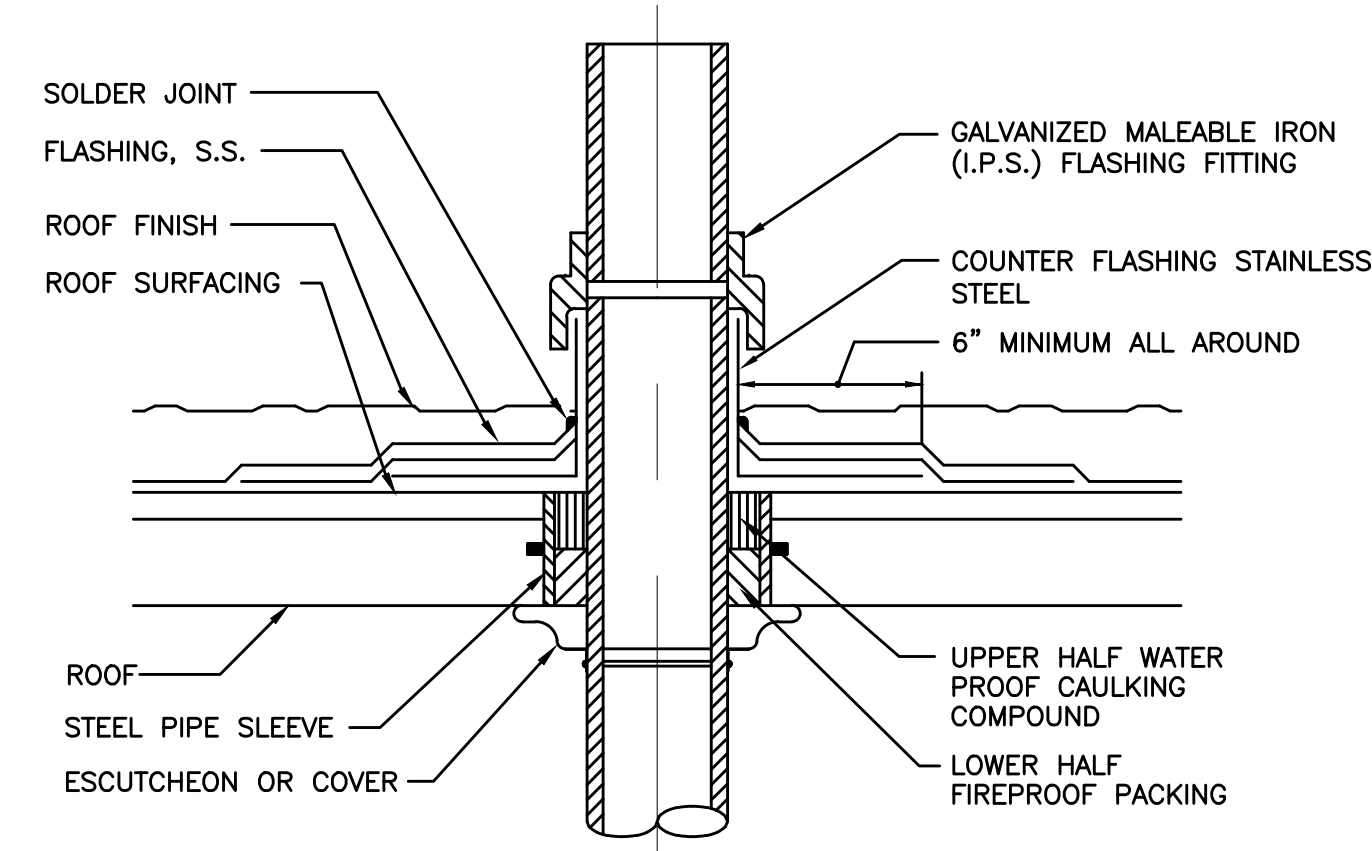
4 FLOOR CLEANOUT DETAIL
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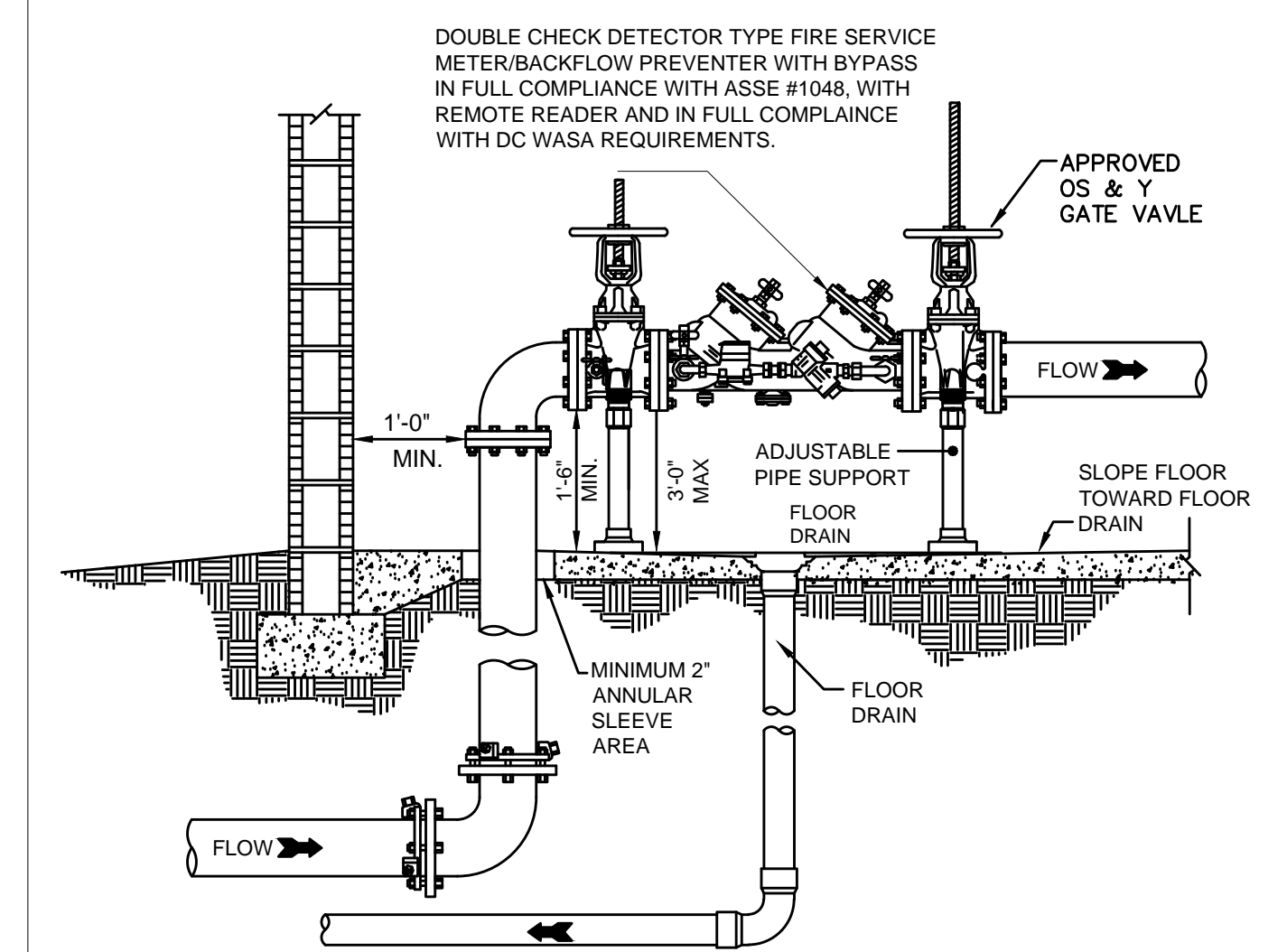
1 INCOMING WATER SERVICE DETAIL
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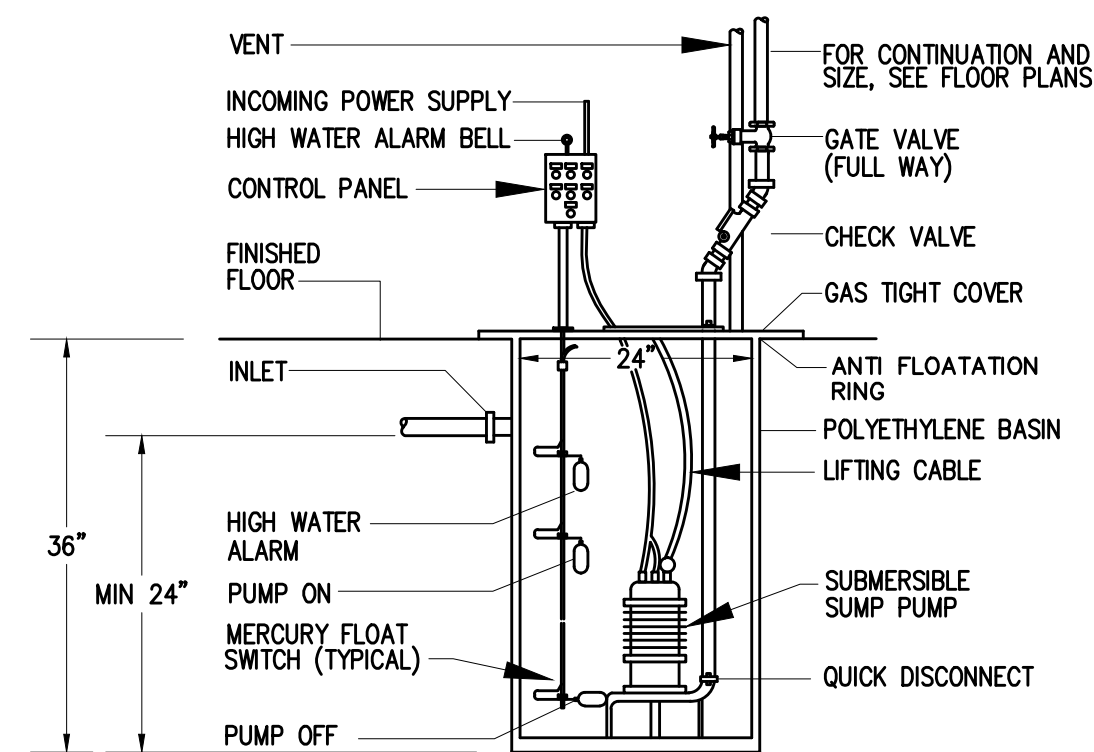
8 GAS WATER HEATER DETAIL
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5 VENT THROUGH ROOF DETAIL
SCALE: NOT TO SCALE



2 INCOMING FIRE PROTECTION SERVICE DETAIL
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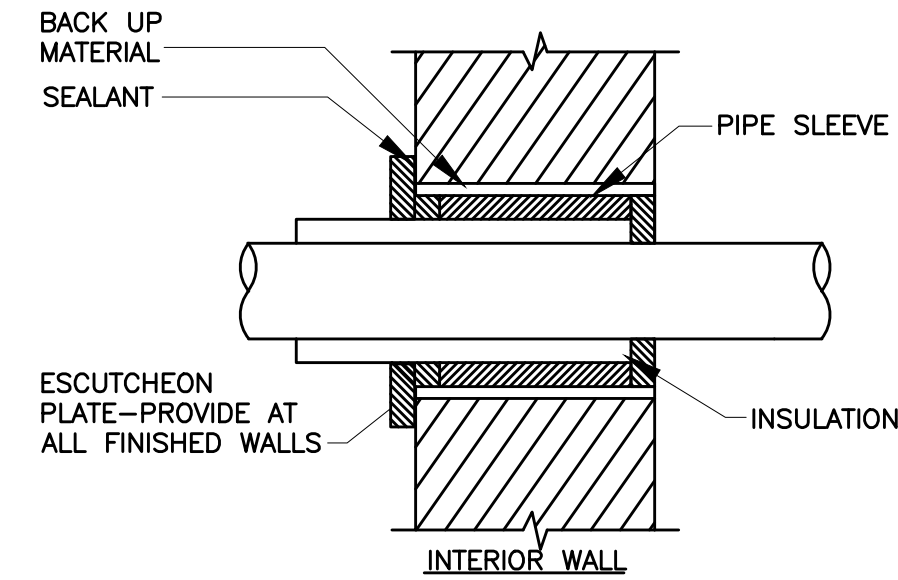


9 SIMPLEX SUMP PUMP DETAIL
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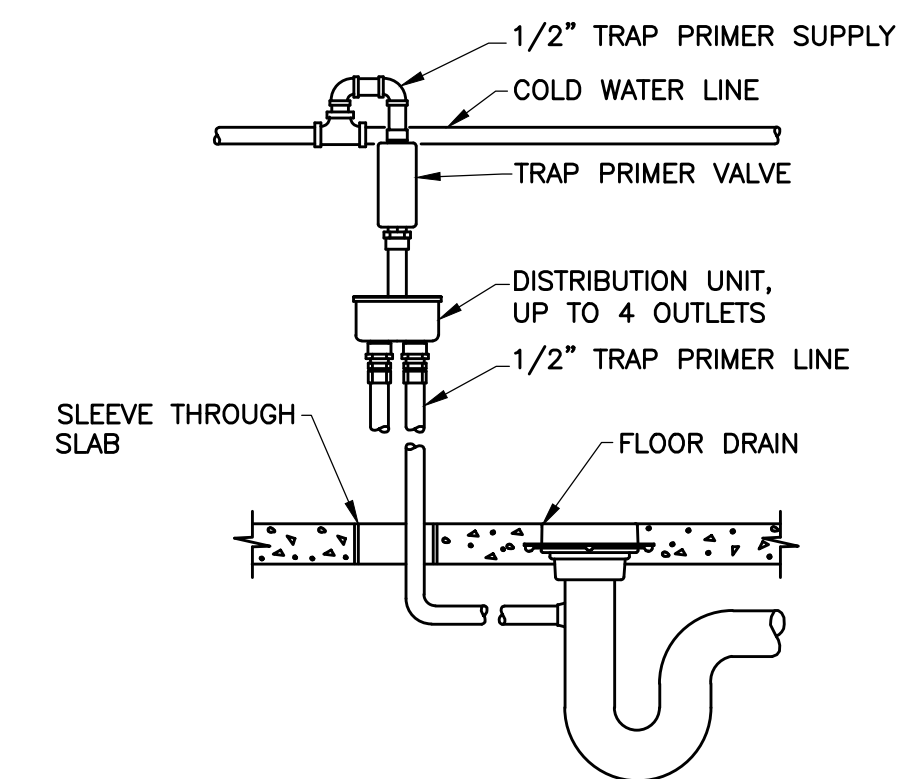
NOTE: CONTRACTOR TO PROVIDE AUXILIARY PUMP WITH BATTERY BACK UP POWER.

SIMPLEX SUMP PUMP:

SIMPLEX SUMP SYSTEM SHALL INCLUDE ONE WEIL PUMP PRE-PIPED AND WIRED, INCLUDING INDEPENDENT GATE AND CHECK VALVE FOR PUMP; HEAVY DUTY TOP, WITH HINGED RECESSED COVER; NEMA 4 JUNCTION BOX; 2-MERCURY TYPE SWITCHES MOUNTED ON A GALVANIZED PIPE; SIMPLEX CONTROL PANEL CONSISTING OF (1) TEST-OFF-AUTOMATIC SELECTOR SWITCH; (1) MOTOR RUNNING LIGHTS, (1) ALARM LIGHT, (1) ALARM BELL, (1) ALARM SILENCE SWITCH AND (1) TERMINAL BLOCK. THE PUMP SHALL HAVE A CAPACITY OF 50 GPM AT 20' T.D.H. MOTOR SHALL BE 0.5 HP, 60 HZ, 120 VOLTS, 1750 RPM.



6 WALL PENETRATION DETAIL
SCALE: NOT TO SCALE



3 TRAP PRIMER DETAIL
SCALE: NOT TO SCALE

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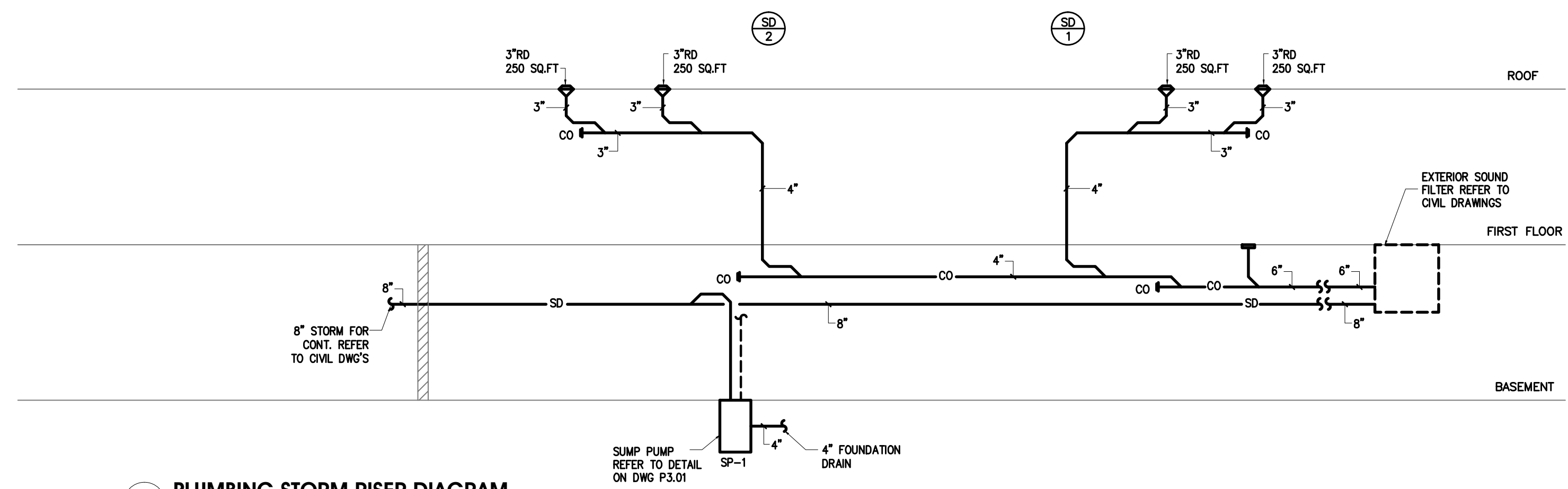
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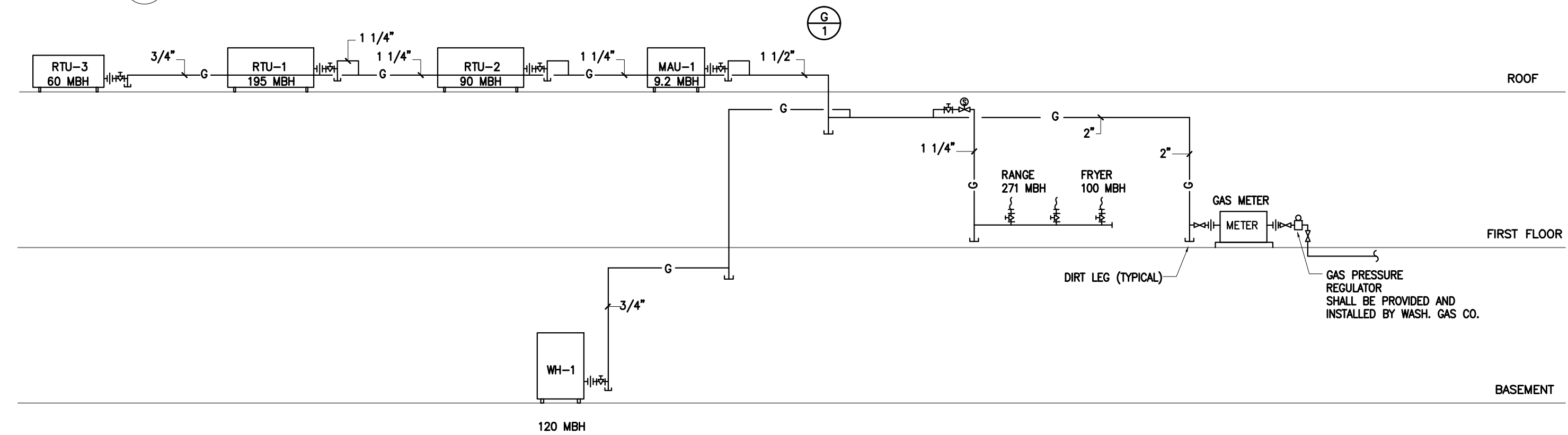
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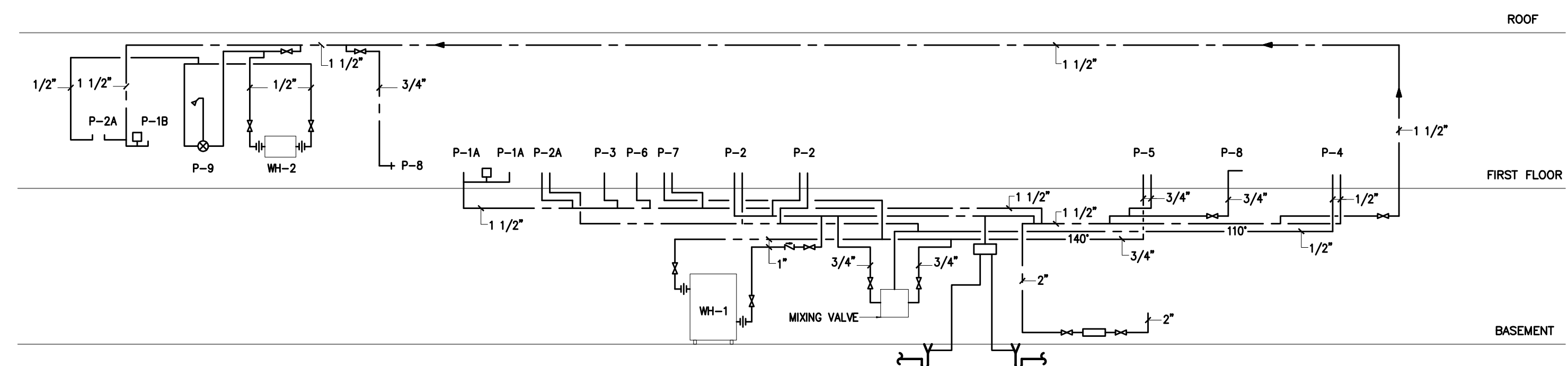
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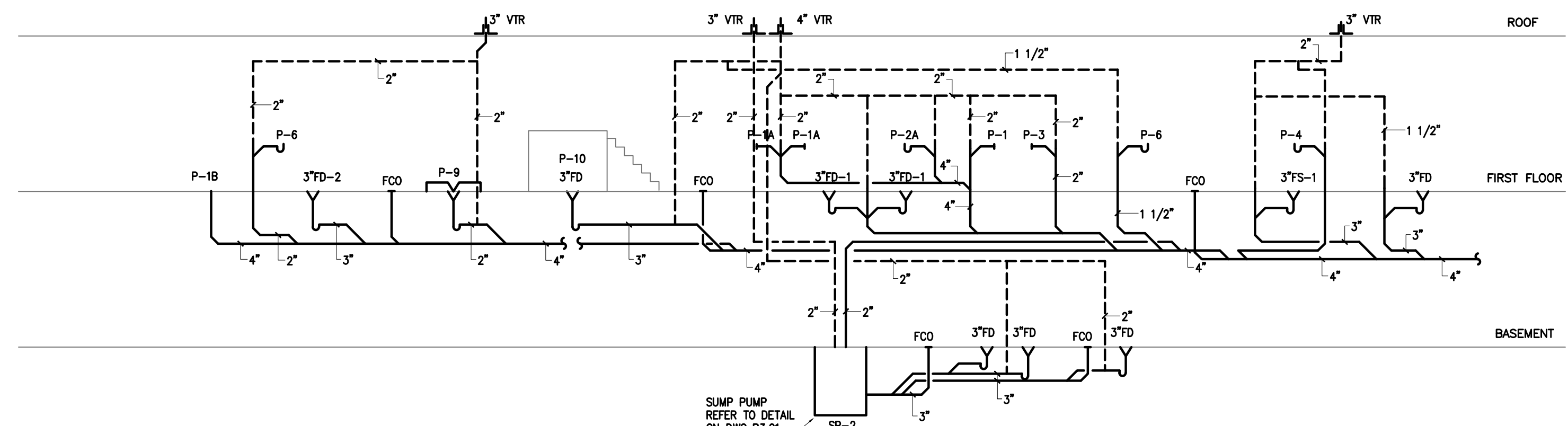
1 PLUMBING STORM RISER DIAGRAM
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2 PLUMBING GAS RISER DIAGRAM
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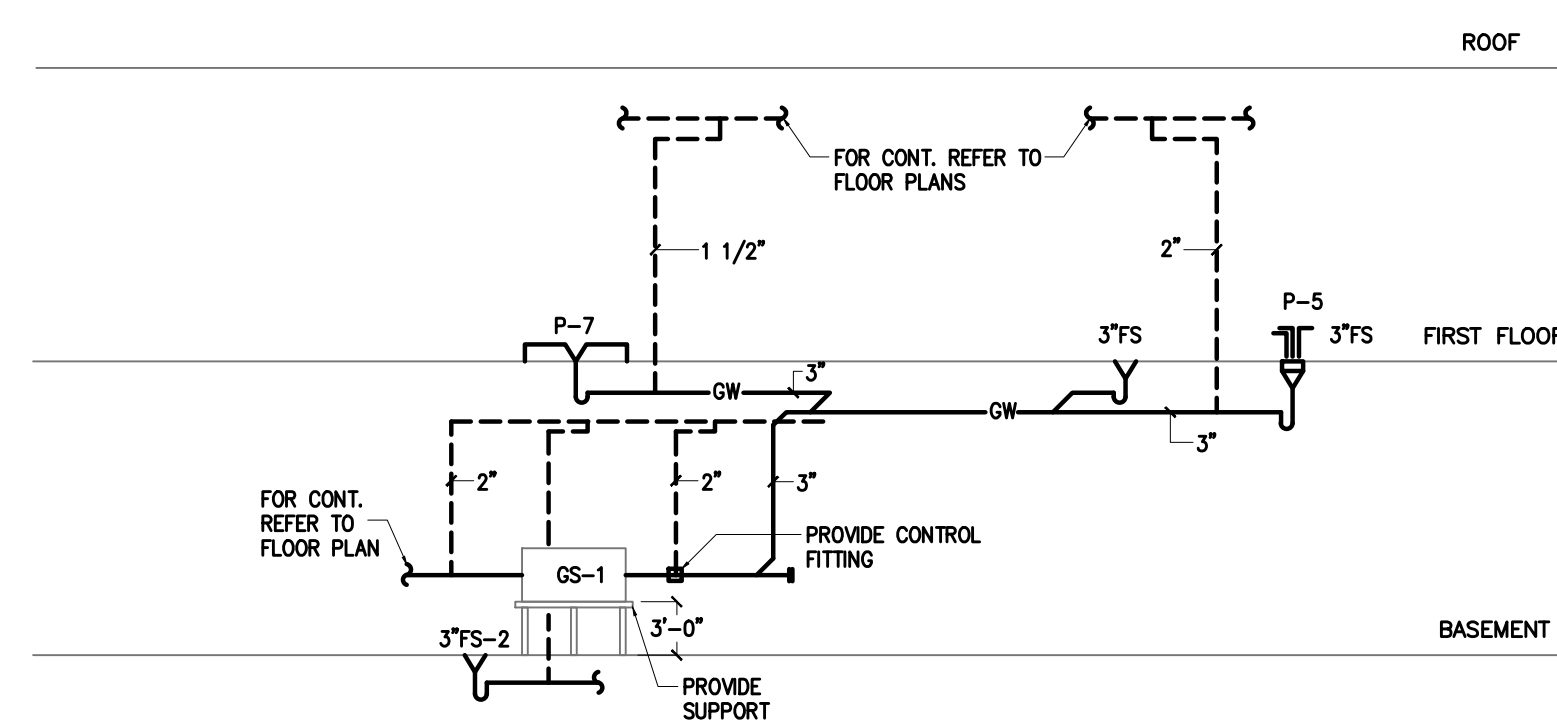


3 PLUMBING WATER RISER DIAGRAM
SCALE: NOT TO SCALE



4 PLUMBING SANITARY RISER DIAGRAM
SCALE: NOT TO SCALE

RTU-1=195 MBH	NATURAL GAS PRESSURE OF 7" WC W/ PRESSURE DROP OF 0.3 WATER COLUMN & SPECIFIC GRAVITY OF .60 60' RUN
RTU-2= 90 MBH	1/2" = 50 MBH
RTU-3= 60 MBH	3/4" = 104 MBH
MAU-1= 10 MBH	1" = 195 MBH
DOM.HOT HTR=120 MBH	1 1/4" = 400 MBH
KITCHEN=271 MBH	1 1/2" = 600 MBH
TOTAL 746 MBH	2" = 1,160 MBH



5 PLUMBING GREAS WASTE RISER DIAGRAM
SCALE: NOT TO SCALE

ABBREVIATIONS

&	AND	FLR	FLOOR	PLAM	PLASTIC LAMINATE
C	CENTERLINE	FT	FOOT, FEET	PLYWD	PLYWOOD
O 2	OXYGEN	G	GAS	PNL(S)	PANEL(S)
A	AIR	GA	GAUGE	PW	PURIFIED WATER
AFF	ABOVE FINISHED FLOOR	GFCI	GOV FURNISHED, CONTRA INSTALLED	PWR	POWER
AP	ACCESS PANEL	GFGI	GOV FURNISHED, GOV INSTALLED	RCP	REFLECTED CEILING PLAN
APPROX	APPROXIMATE	GH	GROMMET HOLE	REFRIG	REFRIGERATOR
ARCH	ARCHITECTURAL	GOV	GOVERNMENT	REQ	REQUIRED
ATC	ACOUSTIC TILE CEILING	GWB	GYPSTUM WALL BOARD	RM	ROOM
BD	BOARD	GYP BD	GYPSTUM WALL BOARD	S	SOUTH
BLDG	BUILDING	HDW	HARDWARE	SAL	SALVAGE
BP	BACK PANEL	HR	HOUR	SECT	SECTION
CLG	CEILING	HT	HEIGHT	SF	SQUARE FOOT
CFCI	CONTRA FURNISHED, CONTRA INSTALL	HORIZ	HORIZONTAL	SG	SPLASH GUARD
CLR	CLEAR	HW	HOT WATER	SIM	SIMILAR
COL	COLUMN	INST	INSTALL(ATION)	SHT	SHEET
CONC	CONCRETE	INT	INTERIOR	SPEC	SPECIFICATION(S)
CONST	CONSTRUCTION	KBT	KEYBOARD TRAY	SQ	SQUARE
CONTRA	CONTRACTOR	L	LENGTH	SS	STAINLESS STEEL
CTR	CENTER	LB	POUND	STL	STEEL
CW	COLD WATER	LN2	LIQUID NITROGEN	STAND	STANDARD
D	DATA RECEPTACLE	LU	LEG UNIT	SUSP	SUSPENDED
DI	DEIONIZED WATER	MAT	MATERIAL	SVF	SEAMLESS VINYL FLOORING
DIA	DIAMETER	MAX	MAXIMUM	TEMP	TEMPORARY
DIM	DIMENSION	MET	METAL	THK	THICK
DN	DOWN	MTL	METAL	TYP	TYPICAL
DTL	DETAIL	MFG	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
DR	DOOR	MIN	MINIMUM	UTY	UTILITY
DWG	DRAWING(S)	MISC	MISCELLANEOUS	V	VACUUM
E	EAST	MOA	MULTI OUTLET ASSEMBLY	VCT	VINYL COMPOSITION TILE
EA	EACH	MON	MONITOR	VIN	VINYL
ELEC	ELECTRICAL	MTD	MOUNTED	W	WEST
EL	ELEVATION	N	NORTH	W/	WITH
EP	ELECTRICAL PANEL	N/A	NOT APPLICABLE	W/O	WITHOUT
EQ	EQUAL	NIC	NOT IN CONTRACT	WD	WOOD
ETR	EXISTING TO REMAIN	NO.	NUMBER		
EW	EYE WASH	NTS	NOT TO SCALE		
EXIST	EXISTING	OC	ON CENTER		
EXST	EXISTING	OH	OPPOSITE HAND		
FF	FINISHED FLOOR	ORIG	ORIGINAL		
FAPS	FIRE ALARM PULL STATION	P	POWER RECEPTACLE		
FEC	FIRE EXTINGUISHER	PB	PARTICAL BOARD		

DEMOLITION GENERAL NOTES

- SEE ARCHITECTURAL DOCUMENTS FOR GENERAL DEMOLITION NOTES. NOTES WHICH ARE NOT SPECIFIC TO THE ARCHITECTURAL TRADE APPLY TO ALL CONSTRUCTION DISCIPLINES INCLUDING FIRE PROTECTION.
- IN ADDITION TO DEMOLITION OF SPRINKLERS, PIPING, VALVES AND ALL RELATED FIRE PROTECTION APPURTENANCES, PERFORM SELECTIVE DEMOLITION AS REQUIRED WHICH MAY INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
 - CORE DRILLING, CONC CUTTING AND PARTIAL REMOVAL OF WALLS AND SLABS.
 - REMOVE & REINSTALL SUSPENDED ATC CEILING AS REQUIRED. COORDINATE WITH ARCHITECTURAL DOCUMENTS.
- PHASE DEMOLITION AND PROVIDE TEMPORARY FACILITIES AS REQUIRED TO MAINTAIN LIFE SAFETY SYSTEMS SERVING OCCUPIED SPACES IN FULL OPERATING CONDITION. COORDINATE PLAN FOR MAINTENANCE OF THESE SYSTEMS WITH UMMC FACILITIES STAFF. COMPLY WITH OSHA REGULATIONS AND ALL UMMC ILSM (INTERIM LIFE SAFETY MEASURES) REQUIREMENTS.
- PROVIDE TEMPORARY BARRIERS TO PROTECT PERSONS FROM DEMOLITION SITE HAZARDS AND INJURY. MAINTAIN GOOD INDUSTRY PRACTICE, AND COMPLY WITH OSHA REGULATIONS AND ALL UMMC ILSM (INTERIM LIFE SAFETY MEASURES) REQUIREMENTS.
- RECYCLE DEMOLISHED MATERIALS OFF-SITE TO GREATEST EXTENT POSSIBLE. SUBMIT RECYCLING PLAN TO PROJECT OFFICER FOR APPROVAL PRIOR TO DEMOLITION. DO NOT USE DEMOLISHED (RECYCLED) MATERIALS FOR NEW WORK UNLESS NOTED OTHERWISE.
- DISPOSE OF ALL NON-RECYCLABLE ITEMS OFF-SITE UNLESS INDICATED TO BE SALVAGED OR REUSED IN NEW WORK.
- CONTRACTOR SHALL DETERMINE WHICH PIPING IS REQUIRED TO REMAIN FOR THE RENOVATION AND REMOVE ALL PIPING WHICH IS NO LONGER NEEDED. CAP REMAINING PIPING AS REQUIRED. EXISTING SPRINKLERS WHICH HAVE BEEN REMOVED MUST NOT BE RE-USED FOR THE RENOVATION NEW-WORK.

FIRE PROTECTION GENERAL NOTES

- PROVIDE A NEW HYDRAULICALLY CALCULATED AND DESIGNED SPRINKLER LAYOUT AND INSTALLATION FOR THE PHARMACY RENOVATION AREA BASED ON IFC, STATE AND LOCAL REQUIREMENTS, AS WELL AS NFPA 13 AND 14 REQUIREMENTS. NEW SPRINKLER LOCATIONS HAVE NOT BEEN SHOWN, FORMAL LAYOUT MUST BE SUBMITTED BY SPRINKLER CONTRACTOR FOR REVIEW BY THE ARCHITECT/ENGINEER AFTER APPROVAL BY THE AUTHORITY HAVING JURISDICTION. PROVIDE COMPLETE NEW WET AND DRY SYSTEMS INCLUDING, BUT NOT LIMITED TO SPRINKLERS, PIPING, VALVES, AND ALL NFPA/FM/UL REQUIRED APPURTENANCES. DRY PIPE SYSTEM SHALL BE INSTALLED IN ATTIC LEVEL. WET PIPE SYSTEM SHALL BE INSTALLED IN REMAINDER OF STRUCTURE.
- PROVIDE NEW QUICK RESPONSE SPRINKLERS AS REQUIRED AND SPECIFIED. ORDINARY TEMPERATURE TYPE (RED BULB) THROUGHOUT EXCEPT PROVIDE INTERMEDIATE TEMPERATURE TYPE (YELLOW OR GREEN BULB) WITH FM/UL APPROVED GUARD IN ELECTRIC ROOMS, MECHANICAL ROOMS, APPARATUS BAY AND ATTIC SPACE.
- THE SPRINKLER PIPE SHALL BE SCHEDULE 40 BLACK STEEL, AMERICAN STEEL ONLY. PIPING 4" AND OVER MAY BE SCHEDULE 10 IF MECHANICAL JOINTS (VICTAULIC) ARE USED. PIPING WITH WALL THICKNESS LESS THAN SCHEDULE 40 SHALL NOT BE THREADED.
- SCHEDULE 5, "LIGHTWALL" DESIGNATED, OR PLASTIC SPRINKLER PIPE ARE NOT PERMITTED.
- ANY SPRINKLER TYPES WHICH HAVE BEEN THE SUBJECT OF A RECALL SHALL NOT BE USED.
- COMPLETE SPRINKLER SYSTEM SHOP DRAWINGS INCLUDING DRAWINGS AND HYDRAULIC CALCULATIONS MUST BE PREPARED AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON AHJ APPROVAL SUBMIT SPRINKLER SYSTEM SHOP DRAWINGS INCLUDING DRAWINGS AND HYDRAULIC CALCULATIONS TO ARCHITECT/ENGINEER FOR REVIEW
- IN AREAS WITH CEILING SPRINKLER PIPING SHALL NOT BE ROUTED EXPOSED.
- FOR AREAS WITH OPEN CEILING, UPRIGHT SPRINKLERS SHALL BE INSTALLED.
- CLOSELY COORDINATE SPRINKLER LAYOUT WITH STRUCTURE, AIR DEVICES AND ANY SHELVING OR HIGH STANDING CASES TO MAINTAIN MINIMUM REQUIRED DISTANCES.
- ALL SPRINKLERS SHALL BE A LOCATED A MINIMUM OF 18 INCHES FROM ANY SUPPLY AIR DEVICES.
- FOR PENINSULAR AND ISLAND SHELVING PROVIDE 30 INCH MINIMUM FROM TOP SHELF TO SPRINKLER DEFLECTOR AND 18" FROM TOP OF STORAGE TO SPRINKLER DEFLECTOR.
- FOR PERIMETER SHELVING TIGHT TO WALL PROVIDE 18 INCH MINIMUM FROM TOP SHELF TO SPRINKLER DEFLECTOR. SPRINKLER SHALL NOT BE LOCATED ABOVE PERIMETER SHELF.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONSTRUCTION AND RELATED CONDITIONS PRIOR TO STARTING NEW CONSTRUCTION. ANY DISCREPANCIES FROM THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATIONS OF EXISTING WORK BEFORE PURCHASING OR FABRICATING NEW WORK FOR CONNECTION TO OR INSTALLATION IN EXISTING WORK.
- WHEREVER THE WORK REQUIRES PARTIAL DEMOLITION OF WALLS OR FLOORS, THE CONTRACTOR SHALL REPAIR AND RESTORE ANY DAMAGE IN SUCH A WAY TO PATCH AND MATCH THE EXISTING MATERIALS.
- COORDINATE ALL WORK TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO THROUGH PIPING PERMITTED OVER ELECTRICAL ROOMS OR ELECTRICAL PANELS.
- UPON PROJECT COMPLETION, CONTRACTOR SHALL INSPECT ALL PORTIONS OF THE WORK AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKING AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY CODE OR LAW. CONTRACTOR SHALL THEN COORDINATE FINAL WALK-THRU AND INSPECTION WITH UMMC REPRESENTATIVES AND FIX ANY ITEMS FOUND TO REQUIRE CORRECTION.
- ALL MATERIALS USED FOR THIS PROJECT SHALL BE NEW, CURRENT MODELS MANUFACTURED WITHIN THE PAST 2 YEARS, AND SHALL MATCH BUILDING STANDARDS. CONTRACTOR TO COORDINATE BUILDING STANDARD MATERIALS WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING ANY MATERIALS.
- THE CONTRACTOR SHALL COORDINATE THE LAYOUT AND INSTALLATION OF THE SPRINKLER SYSTEM WITH THE WORK OF OTHER TRADES.
- ALL FIRE PROTECTION WORK INCLUDING DESIGN SHALL BE PERFORMED BY AN ACCREDITED FIRE PROTECTION CONTRACTOR REGULARLY ENGAGED IN THE BUSINESS FOR AT LEAST THE PAST FIVE YEARS AND FAMILIAR WITH THIS WORK AND THE REQUIREMENTS OF THE APPROVING JURISDICTION.
- THE ENTIRE TENANT RENOVATION SHALL BE FULLY SPRINKLERED WITH AUTOMATIC QUICK RESPONSE WET-PIPE SPRINKLER SYSTEM MATCHING CURRENT ANNAPOLIS TOWNE CENTRE STANDARD.
- INSTALL SPRINKLERS UTILIZING RETURN BEND CONNECTIONS TO BRANCHES AND MAINS THROUGHOUT. WHERE ACCOUSTICAL TILES ARE INSTALLED INSTALL SPRINKLERS IN CENTER OF TILE/ALIGN WITH CEILING MOUNTED LIGHTS.
- PIPE, FITTINGS, SPRINKLERS, HANGERS, AND ALL APPURTENANCES SHALL BE IN ACCORDANCE WITH THE NFPA#13,14,ALL APPLICABLE CODES AND BUILDING STANDARD.
- THE CONTRACTOR SHALL PRODUCE COMPLETE SHOP DRAWINGS AND CALCULATIONS, PREPARED IN ACCORDANCE WITH THE APPROPRIATE NFPA STANDARDS. THEY SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE APPROPRIATE JURISDICTION.
- REFER TO ELECTRICAL DOCUMENTS FOR FIRE ALARM.
- ALL NEW SPRINKLER SYSTEM PIPING THAT IS REGULARLY IN VIEW SUCH AS IN STAIRWELLS SHALL BE PAINTED RED. CONCEALED PIPING SHALL BE PROVIDED WITH RED LABELS AT A MINIMUM OF 20 FOOT INTERVALS AND ON BOTH SIDES OF WALLS WITHIN THREE FEET OF THE PENETRATION.

ABBREVIATIONS

ABV	ABOVE
AD	AREA DRAIN
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
CLG	CEILING
CO.	COMPANY, CLEANOUT
DFU	DRAINAGE FIXTURE UNITS
CW	COLD WATER
DN	DOWN
DW	DISHWASHER
EA	EACH
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FLR.	FLOOR
FIXT.	FIXTURE
G	NATURAL GAS
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSER
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
IM	ICE MAKER
INV. EL.	INVERT ELEVATION
IPC	INTERNATIONAL PLUMBING CODE
MB	MOP BASIN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
RD	ROOF DRAIN
REF	REFRIGERATOR
SAN.	SANITARY
SFU	SUPPLY FIXTURE UNIT
SP	SPRINKLER
DT	DRY TYPE SRINKLER HEAD

FIRE PROTECTION SYMBOLS

	EXISTING CONTROL VALVE WITH TAMPER SWITCH
	PIPE UP
	PIPE DOWN
	WATERFLOW SWITCH
	EXISTING STANDPIPE WITH HOSE OUTLET
	NEW CONCEALED PENDANT QUICK RESPONSE SPRINKLER SUGGESTED LOCATION
	NEW PENDANT QUICK RESPONSE SPRINKLER SUGGESTED LOCATION
	NEW UPRIGHT QUICK RESPONSE SPRINKLER SUGGESTED LOCATION
	NEW SIDEWALL QUICK RESPONSE SPRINKLER SUGGESTED LOCATION
	EXISTING WORK SHOWN FOR REFERENCE ONLY
	POINT OF CONNECTION NEW TO EXISTING
	DETECTOR CHECK BACKFLOW PREVENTER



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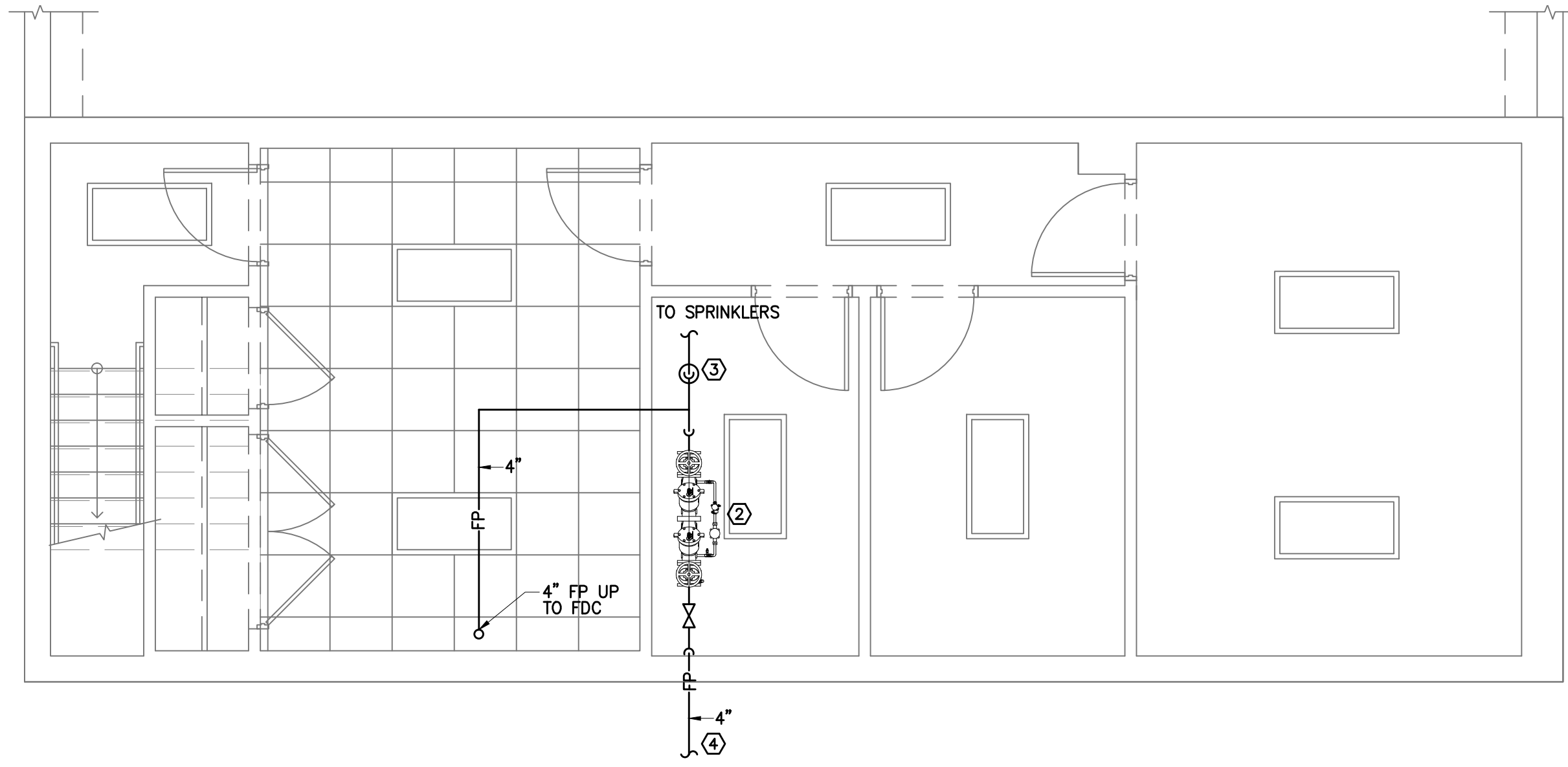
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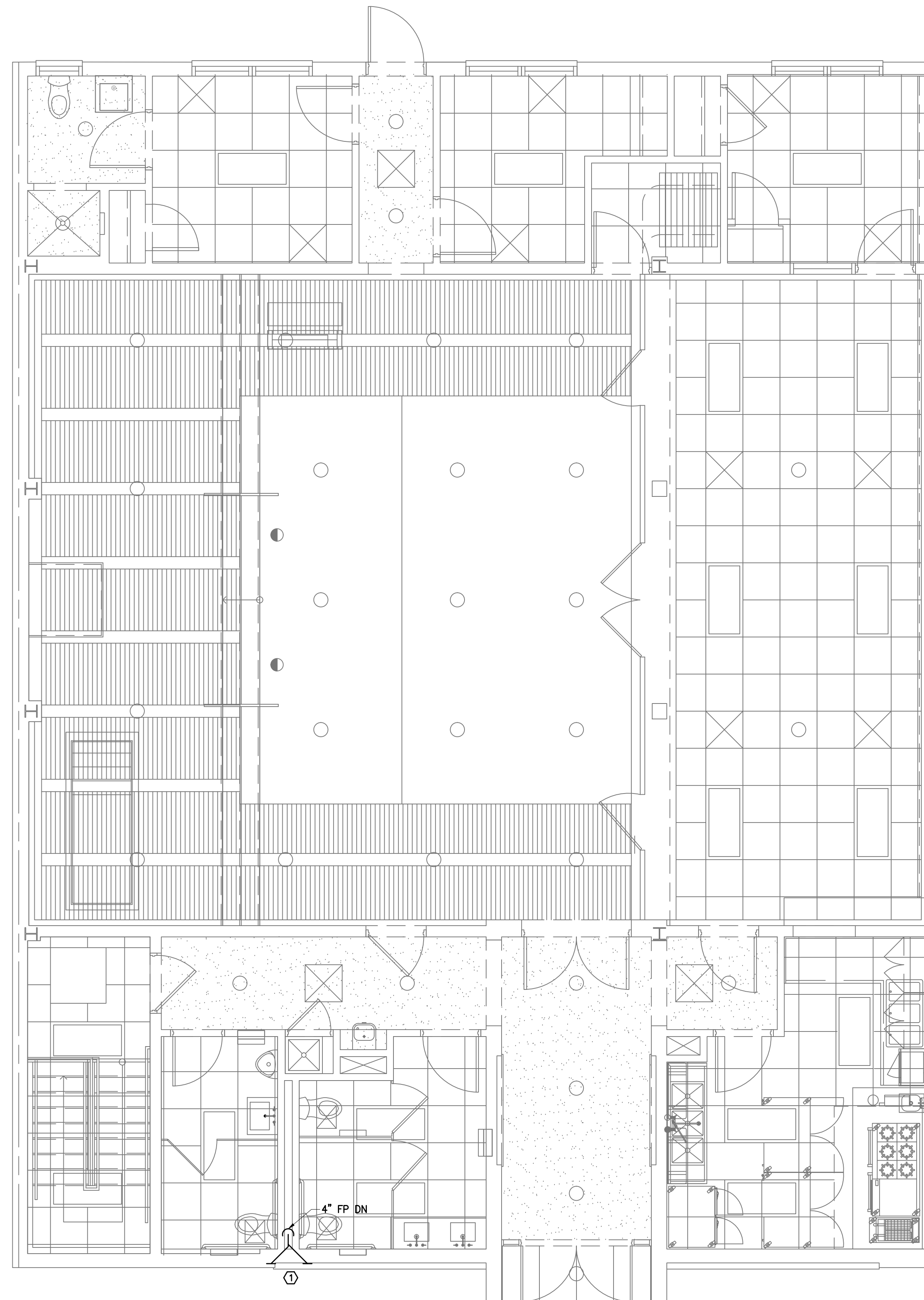
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Sheet Title:
FIRE PROTECTION COVER SHEET

Sheet Number:
FP0.01



1 FIRE PROTECTION BASEMENT FLOOR PLAN
1/4"=1'-0"



2 FIRE PROTECTION FIRST FLOOR PLAN
1/4"=1'-0"

GENERAL NOTES

1. REFER TO DRAWING FP0.01 FOR GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.

SPECIFIC NOTES

- ① 2 1/2" x 2 1/2" x 4" FIRE DEPARTMENT CONNECTION LABELED SPRINKLER.
- ② DOUBLE DETECTOR CHECK VALVE ASSEMBLY. REFER TO DETAIL ON DRAWING FP3.01.
- ③ WET SPRINKLER CHECK VALVE ASSEMBLY. REFER TO DETAIL ON DRAWING FP3.01.
- ④ 4" FIRE SERVICE FOR CONSTRUCTION REFER TO CIVIL DRAWINGS.



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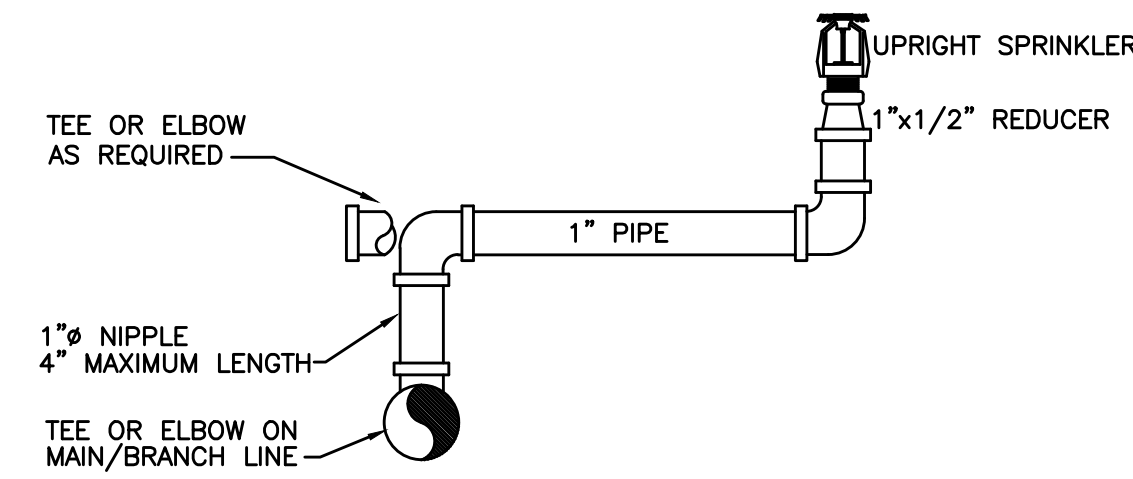
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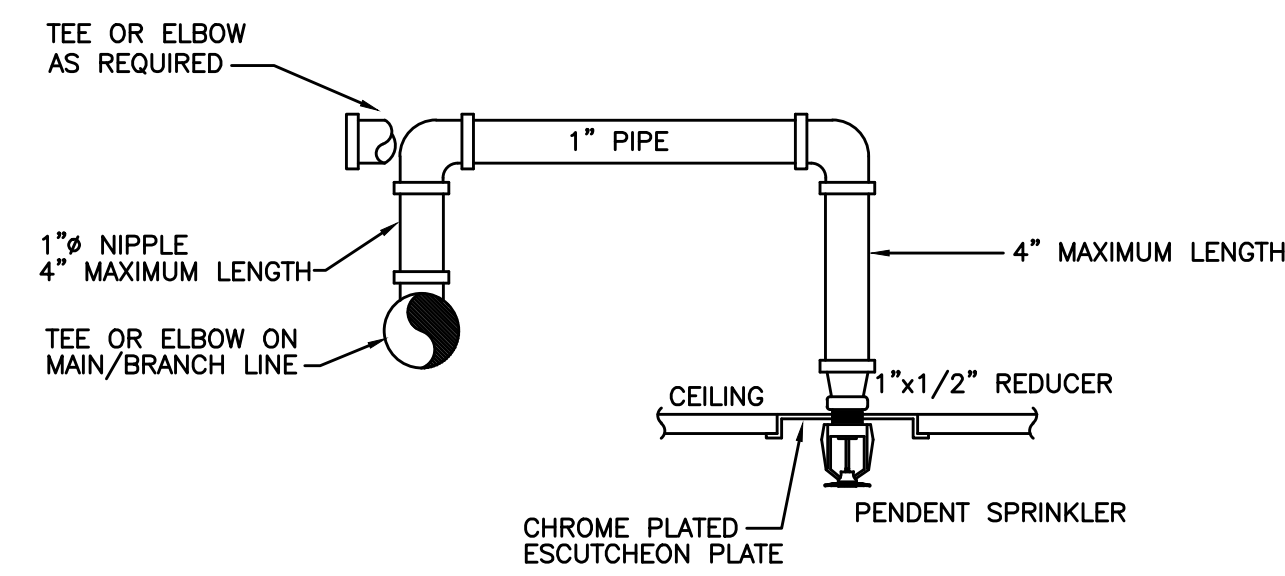
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BASEMENT AND FIRST
FLOOR PLAN

Sheet Number:

FP1.01

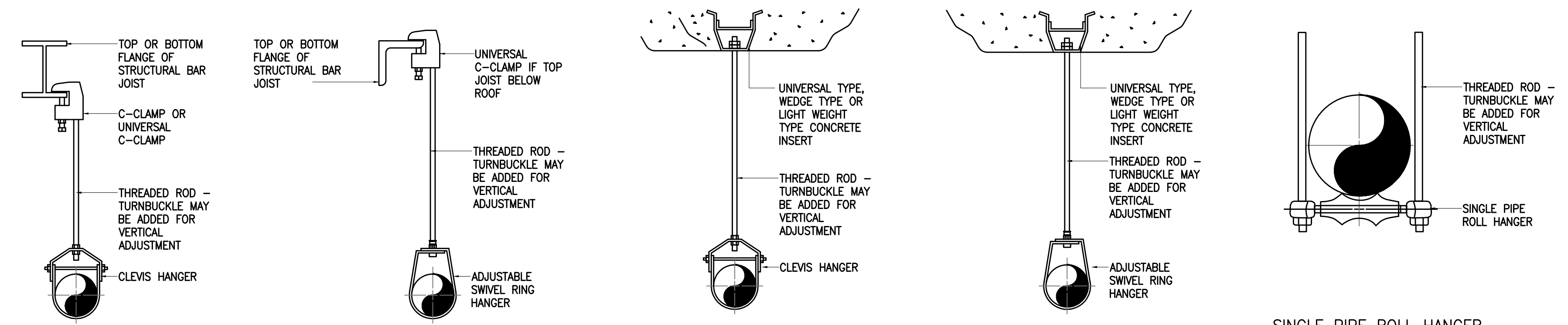


UPRIGHT SPRINKLER



PENDENT SPRINKLER

4 **ARMOVER DETAIL**
NOT TO SCALE



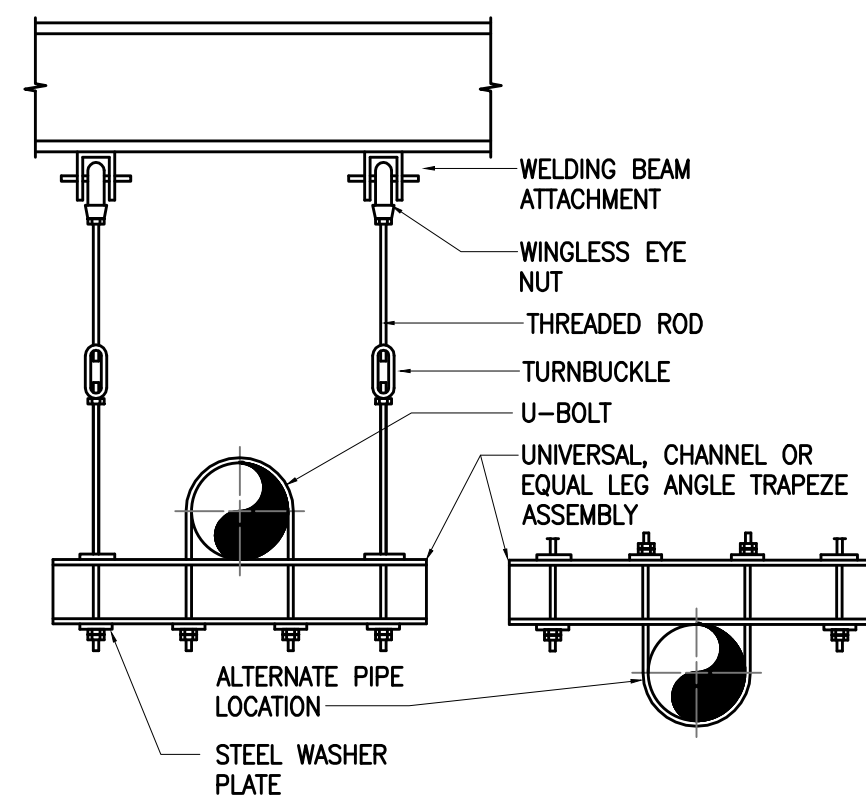
CLEVIS HANGER SUPPORTED FROM STRUCTURAL BAR JOIST WITH C-CLAMP

SWIVEL RING HANGER SUPPORTED FROM STRUCTURAL BAR JOIST WITH C-CLAMP

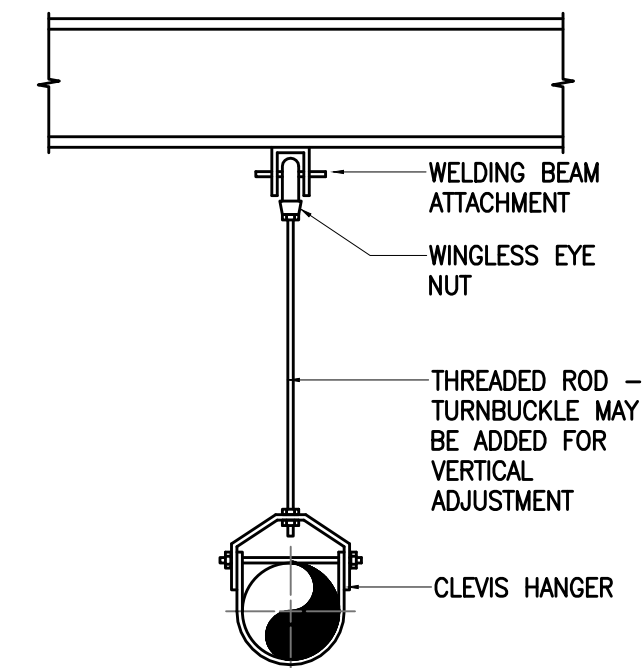
CLEVIS HANGER SUPPORTED FROM CONCRETE STRUCTURE WITH SUPPORT INSERT

SWIVEL RING HANGER SUPPORTED FROM CONCRETE STRUCTURE WITH SUPPORT INSERT

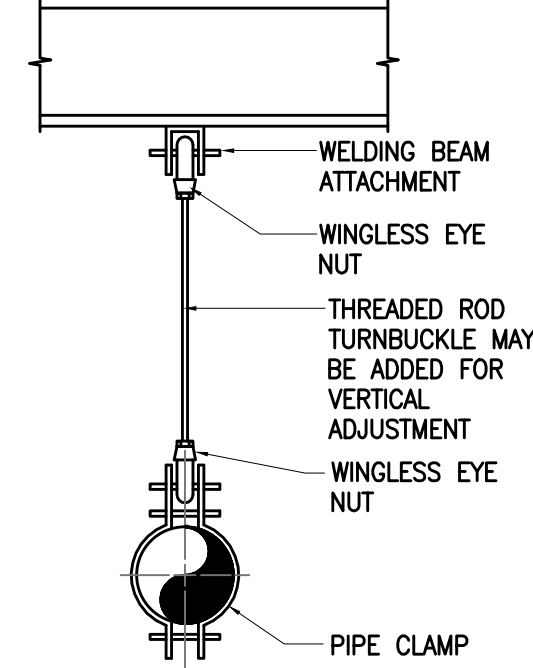
SINGLE PIPE ROLL HANGER



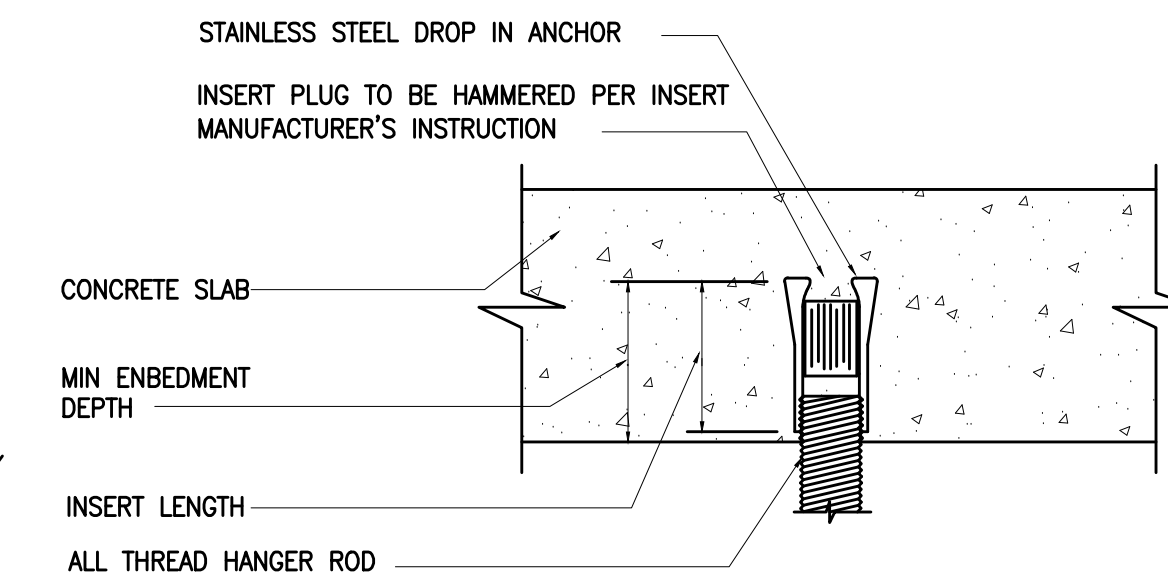
TRAPEZE HANGER WITH WELDED SUPPORT FROM STRUCTURE



CLEVIS HANGER WITH WELDED SUPPORT FROM STRUCTURE



PIPE CLAMP HANGER WITH WELDED SUPPORT FROM STRUCTURE



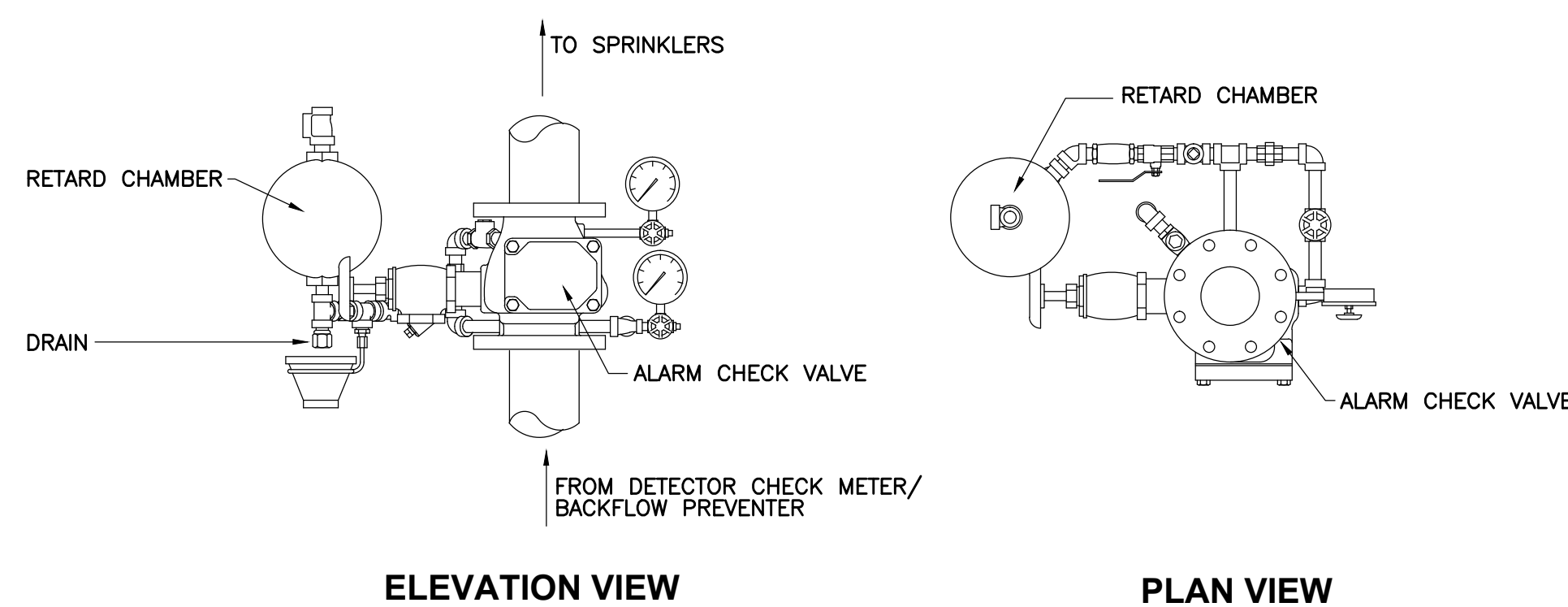
CONCRETE EXPANSION SHIELD INSERT ANCHOR BASIS OF DESIGN: "HILT"			
ANCHOR SIZE	INSERT LENGTH	MINIMUM EMBEDMENT DEPTH	MAXIMUM HOLE DEPTH
1/4"	1"	1 1/4"	2"
3/8"	1 9/16"	2"	2 1/2"
1/2"	2"	2 1/2"	3"
5/8"	2 9/16"	3"	3 1/2"
3/4"	3 3/16"	3 1/2"	4"

TYPICAL UPPER ANCHOR ATTACHMENT FOR HANGERS IN CONCRETE

NOTES:

1. SPRINKLER HANGERS, BRACING AND RESTRAINTS ARE NOT LIMITED TO THESE EXAMPLES, ALL MUST COMPLY WITH NFPA 13 REQUIREMENTS.
2. ALL HANGERS, BRACING, AND RESTRAINTS SHALL BE IN COMPLIANCE WITH NFPA 13, CHAPTER 9, EDITION AS APPROVED BY LOCAL AHJ.
3. ALL COMPONENTS OF HANGER ASSEMBLIES THAT DIRECTLY ATTACH TO THE BUILDING STRUCTURE OR THE PIPE SHALL BE LISTED.
4. HANGERS AND THEIR COMPONENTS SHALL BE FERROUS UNLESS SPECIFICALLY EXEMPTED PER NFPA 13, CHAPTER 9.
5. ALL TRAPEZE HANGERS SHALL CONFORM TO SECTIONAL MODULUS REQUIREMENTS AS NOTED IN NFPA 13, CHAPTER 9.
6. SPRINKLER PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT NON-SYSTEM COMPONENTS.
7. HANGER RODS SHALL MEET MINIMUM DIAMETER REQUIREMENTS PER NFPA 13, CHAPTER 9.
8. UNSUPPORTED ARMOVER LENGTHS SHALL NOT EXCEED THOSE LISTED IN NFPA 13, CHAPTER 9.

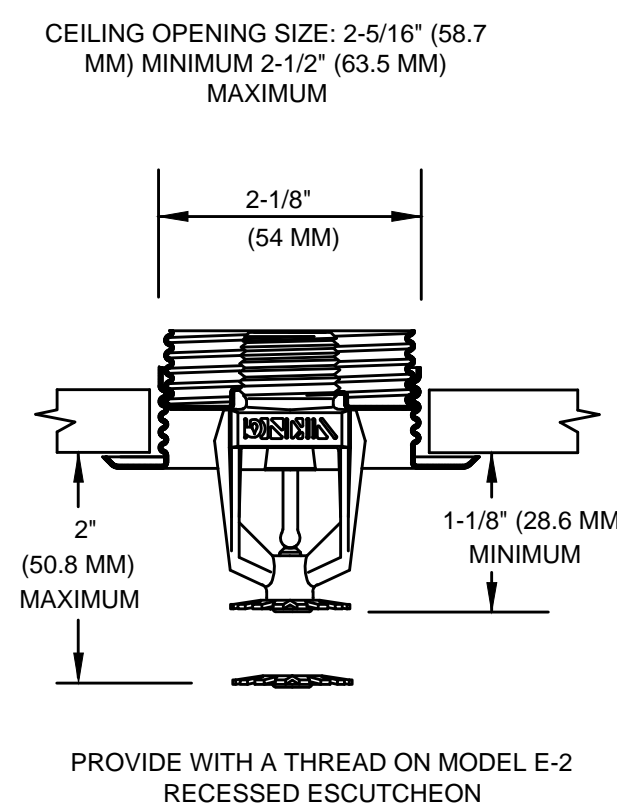
1 **FIRE PROTECTION HANGER DETAIL**
NONE



ELEVATION VIEW

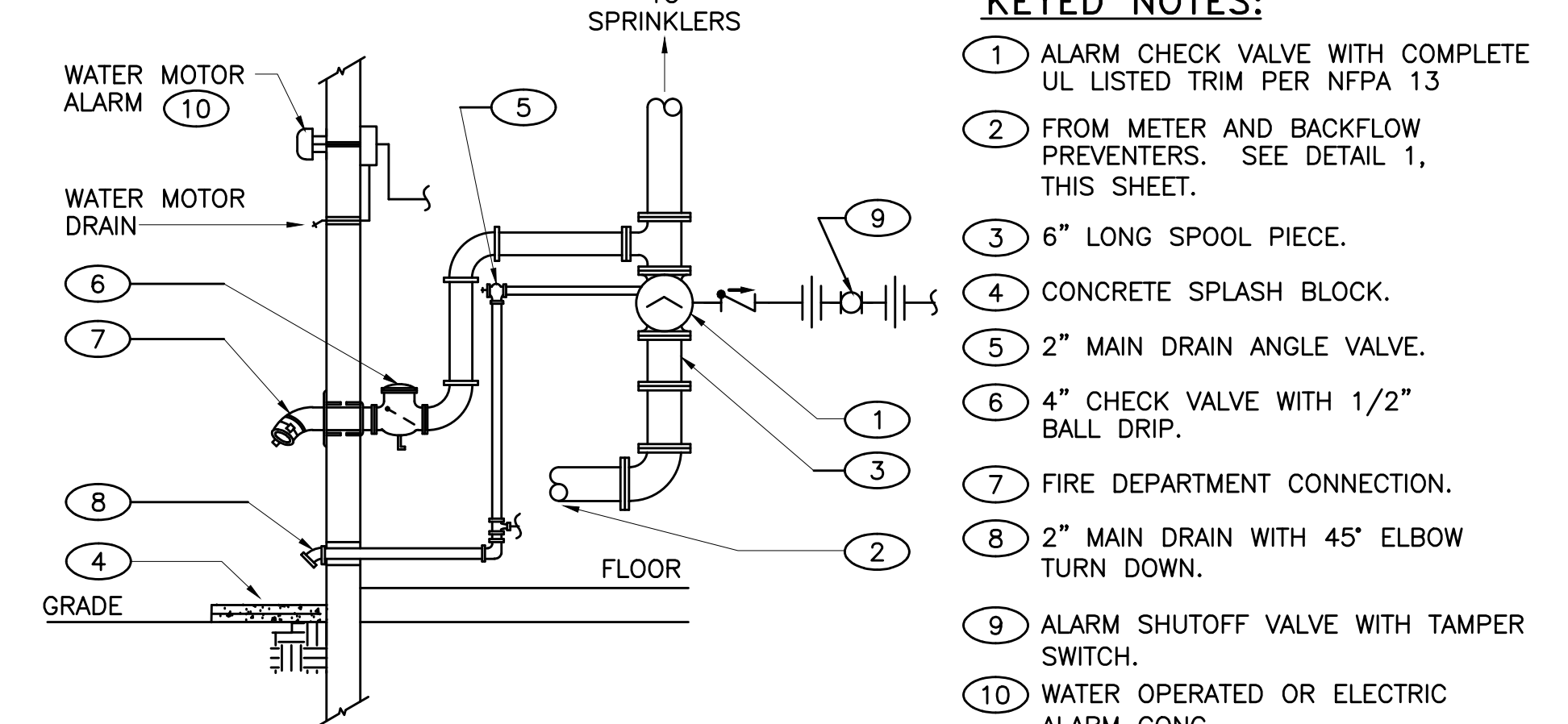
PLAN VIEW

5 **ALARM CHECK ASSEMBLY DETAIL**
NOT TO SCALE



NOTE:
SIZES INDICATED ARE FOR VIKING QUICK RESPONSE PENDENT SPRINKLER. COORDINATE EXACT SIZES WITH MANUFACTURER SELECTED FOR THIS PROJECT.

3 **PENDENT SPRINKLER DETAIL**
NOT TO SCALE



KEYED NOTES:

- 1 ALARM CHECK VALVE WITH COMPLETE UL LISTED TRIM PER NFPA 13
- 2 FROM METER AND BACKFLOW PREVENTERS. SEE DETAIL 1, THIS SHEET.
- 3 6" LONG SPOOL PIECE.
- 4 CONCRETE SPLASH BLOCK.
- 5 2" MAIN DRAIN ANGLE VALVE.
- 6 4" CHECK VALVE WITH 1/2" BALL DRIP.
- 7 FIRE DEPARTMENT CONNECTION.
- 8 2" MAIN DRAIN WITH 45° ELBOW TURN DOWN.
- 9 ALARM SHUTOFF VALVE WITH TAMPER SWITCH.
- 10 WATER OPERATED OR ELECTRIC ALARM GONG.

2 **SPRINKLER ALARM RISER DETAIL**
NOT TO SCALE



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FIRE PROTECTION
DETAILS

Sheet Number:

FP3.01

ELECTRICAL NOTES

GENERAL NOTES

- THE WORK TO BE DONE SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENTS AND SERVICES REQUIRED TO CONSTRUCT, INSTALL AND TO MODIFY THE ELECTRICAL SYSTEMS AS HEREIN SPECIFIED AND SHOWN ON THESE DRAWINGS FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING THE ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND LOCATIONS OF OUTLETS, SWITCHES, PANELBOARDS, CONDUIT AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE ACCESSORY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AT NO EXTRA COST.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE AND TO COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES IN ORDER TO BECOME FAMILIAR WITH ALL ASPECTS OF THE DESIGN AFFECTING THE ELECTRICAL WORK.
- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. DEVICES INCLUDE BUT ARE NOT LIMITED TO RECEPTACLES, SWITCHES, FIXTURES AND TELE/DATA OUTLETS.
- ALL ELECTRICAL MATERIALS SHALL BE NEW EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING TO BE REUSED. ALL MATERIAL SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. (UL). DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION AND/OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND THE ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS.
- ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- INSTALL A FIRE STOP OF ROCKWOOL FIBER OR SILICON FOAM SEALANT TO PROVIDE AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE WHERE CONDUITS, WIREWAYS, AND OTHER ELECTRICAL RACEWAYS PASS THROUGH FIRE RATED PARTITIONS AND/OR SLABS.
- ALL CERTIFICATES OF APPROVAL SHALL BE IN TRIPPLICATE, DELIVERED TO THE ENGINEER, AND BECOME THE PROPERTY OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS BEFORE INSTALLING CONDUIT OR CONDUCTORS FROM POWER SOURCE TO EQUIPMENT TERMINATION.
- THE CONTRACTOR SHALL X-RAY SLAB IN AREA OF PENETRATION PRIOR TO CORE DRILLING AND COORDINATE WITH EQUIPMENT IN CEILING SPACE BELOW TO CHECK FOR OBSTRUCTIONS.
- CONDUCTOR INSTALLATION HOMERUNS TO THE PANELBOARD MAY BE RUN TOGETHER IN ONE CONDUIT.
- PROVIDED ALL CONNECTIONS ARE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE REQUIREMENTS AND THE MAXIMUM UNBALANCED CURRENT IN NEUTRAL DOES NOT EXCEED THE CAPACITY OF THE WIRE. NO MORE THAN 3 SINGLE PHASE CIRCUIT SHALL BE INSTALLED IN ONE RACEWAY. ELIMINATE SPLICES WHEREVER POSSIBLE, AND WHERE NECESSARY, SPLICE IN READILY ACCESSIBLE PULL, JUNCTION OR OUTLET BOX.
- MODIFICATIONS TO EXISTING PANELBOARDS THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT A. BREAKERS AND/OR FUSED SWITCHES AS REQUIRED. NEW EQUIPMENT SHALL MATCH EXISTING INSTALLED EQUIPMENT AND SHALL BE OF THE SAME MANUFACTURER AND TYPE AS SIMILAR EXISTING EQUIPMENT. INTERRUPT RATING OF EQUIPMENT SHALL BE THE SAME AS OF THE EXISTING EQUIPMENT.
- INTERRUPTION OF ELECTRICAL POWER THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER WITH THE BUILDING OWNER AND SHALL OBTAIN WRITTEN PERMISSION FROM THE BUILDING OWNER PRIOR TO SHUTTING DOWN POWER TO ANY SWITCHBOARD, THE CONTRACTOR SHALL ALSO PROVIDE NOTICE TO ALL OTHER TRADES OF ALL SCHEDULED INTERRUPTIONS OF POWER.
- SITE VISIT PRIOR TO SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER IN ADVANCE OF ANY CONDITIONS THAT EXIST THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF THE EXISTING CONDITIONS.
- GUARANTEE THE ELECTRICAL CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE. THE ELECTRICAL CONTRACTOR SHALL, DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC. INSTALLED BY HIM, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING. PRIOR TO THE EXPIRATION OF THE GUARANTEE PERIOD, APPROXIMATELY 11 MONTHS AFTER FINAL ACCEPTANCE OF THIS PROJECT, A POST CONSTRUCTION REVIEW OF THE PROJECT WILL BE MADE.
- THE CONTRACTOR SHALL FURNISH PERSONNEL TO ASSIST THE OWNER IN THIS REVIEW. ANY ADJUSTMENTS, REPAIRS OR REPLACEMENTS FOUND NECESSARY DURING REVIEW SHALL BE DONE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER AND ONE COPY GIVEN TO THE ENGINEER UPON COMPLETION OF WORK.

ELECTRICAL LEGEND

ABBREVIATIONS

A, AMP AMPERES	G, GND GROUND
AB ABOVE	GC GENERAL CONTRACTOR
AC ALTERNATE CURRENT	GFI GROUND FAULT INTERRUPTER
AFF ABOVE FINISHED FLOOR	IG ISOLATED GROUND
ARCH ARCHITECTURAL, ARCHITECT	INCAND INCANDESCENT
BEL BELOW	KAIC KILOAMP INTERRUPTING CURRENT
BKR BREAKER	KVA KILOVOLT AMPERES
C CONDUIT	KW KILOWATTS
CEIL CEILING	LT(S) LIGHT(S)
CKT CIRCUIT	M METER
CM CENTIMETER	MECH MECHANICAL
DC DIRECT CURRENT	MH MOUNTING HEIGHT
D/S DISCONNECT SWITCH	MLO MAIN LUGS ONLY
DISC DISCONNECT SWITCH	MM MILLIMETER
DWG DRAWING	MTD MOUNTED
EC ELECTRICAL CONTRACTOR	NEC NATIONAL ELECTRICAL CODE
EF EXHAUST FAN	NO.# NUMBER
ELEC ELECTRICAL	NTS NOT TO SCALE
EM EMERGENCY	P POLE
EQUIP EQUIPMENT	PH, Ø PHASE
EXIST EXISTING	PNL PANEL
FA FIRE ALARM	RECEP RECEPTACLE
FACP FIRE ALARM CONTROL PANEL	RM ROOM
FAAP FIRE ALARM ANNUNCIATOR PANEL	TELE TELEPHONE
FIXT FIXTURE	TYP TYPICAL
FLA FULL LOAD AMPERES	UON UNLESS OTHERWISE NOTED
FLUOR FLUORESCENT	V VOLTS
EPO EMERGENCY POWER OFF	W WATTS
	W/ WITH
	WP WEATHERPROOF

GENERAL

	INDICATES PLAN NOTE.
	INDICATES REVISION. CLOUDED AREA CONTAINS THE REVISION.
	INDICATES ROOM NUMBER.
	BRANCH CIRCUIT HOMERUN
	CONDUIT UP
	CONDUIT DOWN
	GROUND

ELECTRICAL LEGEND

POWER

NOTES: REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.

WP:	WEATHER PROOF (NEMA 3R)
IG:	ISOLATED GROUND.
GFI:	GROUND FAULT INTERRUPTER.
	WALL MOUNTED 20A DUPLEX RECEPTACLE. (18" AFF UON).
	WALL 20A QUADRUPLEX RECEPTACLE. (18" AFF UON).
	WALL MTD. SPECIAL RECEPTACLE. NEMA TYPE PER PLANS.
	CEILING MOUNTED JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX.
	DISCONNECT SWITCH - NON-FUSED.
	FUSED DISCONNECT SWITCH. FUSE SIZE PER PLANS.
	COMBINATION STARTER/DISCONNECT SWITCH.
	MOTOR. REFER TO MECHANICAL PLANS FOR HORSEPOWER.
	SURFACE MOUNTED PANEL.
	POWER/DATA POKE THRU WIRE MOLE RC4 SERIES OR EGML.
	PHOTCELL

ELECTRICAL LEGEND

LIGHTING

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES.

A:	CAPITAL LETTER ADJACENT TO FIXTURE INDICATES TYPE.
a:	LOWER CASE LETTER INDICATES SWITCHING.
NL:	INDICATES NIGHT LIGHTING - UNSWITCHED FIXTURE.
●	SHADED CIRCLE INDICATES FIXTURE ON EMERGENCY CIRCUIT.
	2'X4' FLUORESCENT FIXTURE - SURFACE OR RECESSED.
	4' LONG FLUORESCENT STRIP FIXTURE.
○	CEILING MOUNTED DOWN LIGHT FIXTURE.
○	WALL MOUNTED FIXTURE.
	CEILING/WALL MOUNTED EXIT SIGN - SINGLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.
	CEILING/WALL MOUNTED EXIT SIGN - DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.
S	20A, 1P, 120/277V TOGGLE TYPE LIGHT SWITCH.
S3	20A, 3-WAY, 120/277V TOGGLE TYPE LIGHT SWITCH.
St	TIMER SWITCH.
SM	TOGGLE TYPE MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION.
	WALL MOUNTED OCCUPANCY SENSOR. WATTSTOPPER DW-100 OR APPROVED EQUAL.

ELECTRICAL LEGEND

SPECIAL SYSTEMS

NOTE: UNLESS OTHERWISE NOTED, FOR ALL DEVICES IN THIS COLUMN PROVIDE BACK BOX AND 1" EMPTY CONDUIT STUBBED 6" INTO ACCESSIBLE CEILING SPACE. FOR FLOOR MOUNTED BOXES, PROVIDE CONDUIT EITHER IN SLAB OR VIA FLOOR BELOW TO ACCESSIBLE CEILING SPACE OF DEVICE LOCATION.

▼	TELEPHONE OUTLET.
▼	COMBINATION DATA/TELEPHONE OUTLET.
Ⓢ	CEILING MOUNTED INTERCOM OR MUSIC SPEAKER.
CR	CARD READER.
RP	KEY PAD.
TV	FLOOR OR WALL MOUNTED TV OUTLET.
MC	MICROPHONE OUTLET.

LIGHTING FIXTURE SCHEDULE

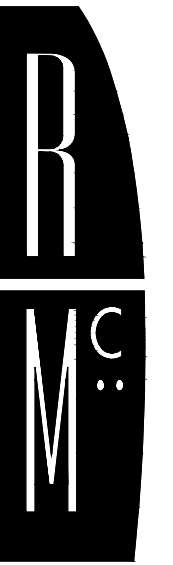
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMP DATA			VOLTS	NOTES
				NO.	WATTS	TYPE		
A		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
B		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
C		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
D		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
E		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
F		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
G		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
H		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
I		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
J		xxx xxx xxx	xxx xxx xxx	2	32	T8	120	xxx xxx xxx
X		LED EXIT SIGN.	LITHONIA LIGHTING	2	32	T8	120	NOTE 1

GENERAL NOTES:

- EQUAL LIGHTING FIXTURE MANUFACTURERS WILL BE CONSIDERED.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES.
- ALL NEW FLUORESCENT FIXTURES SHALL BE PROVIDED WITH ENERGY SAVINGS LAMPS AND ELECTRONIC BALLASTS. ALL NEW FLUORESCENT LAMPS SHALL BE 3500K COLOR TEMPERATURE WITH MINIMUM 80 CRI.
- SUPPORT RECESSED FIXTURES FROM BUILDING STRUCTURE WITH MINIMUM #12 HANGER WIRE FROM DIAGONAL CORNERS OF FIXTURE.

SPECIFIC NOTES:

- FOR EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS PER PLANS.
- ...



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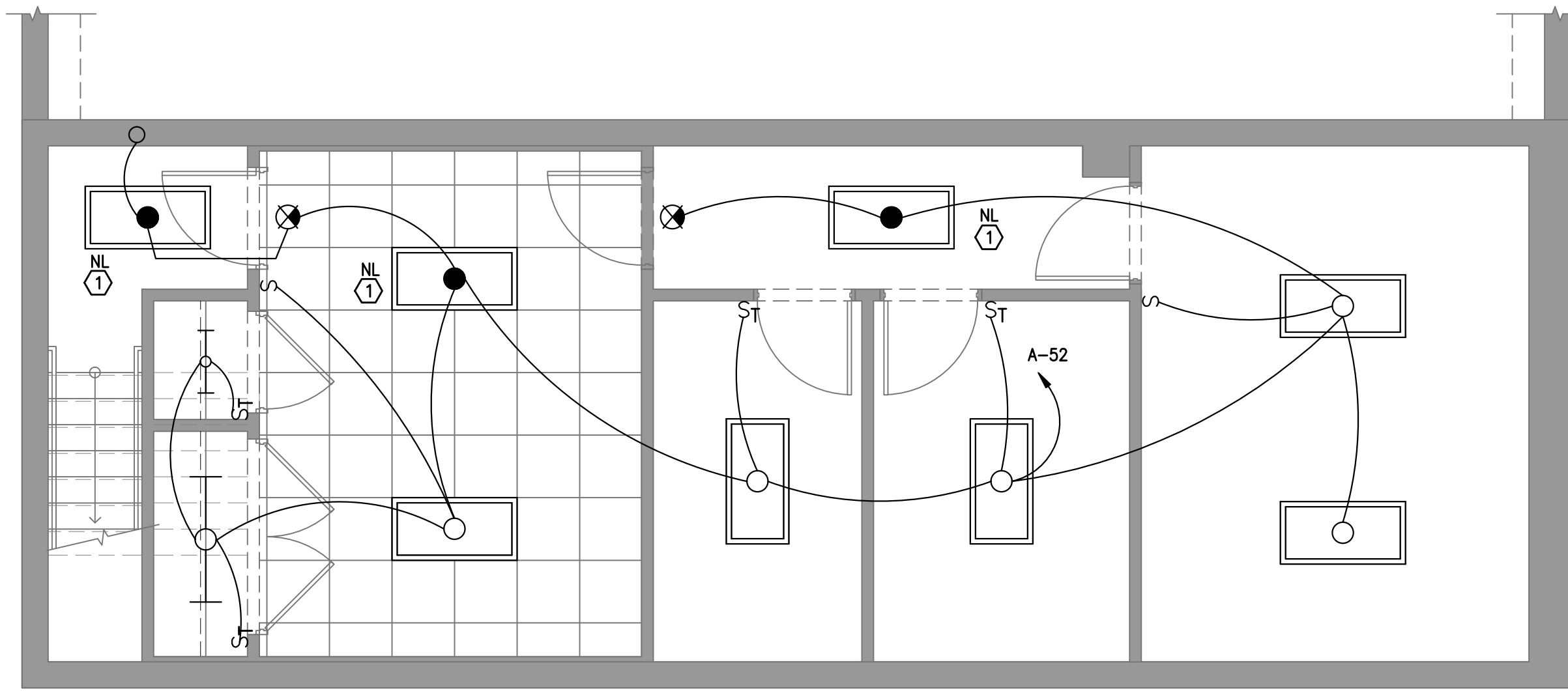
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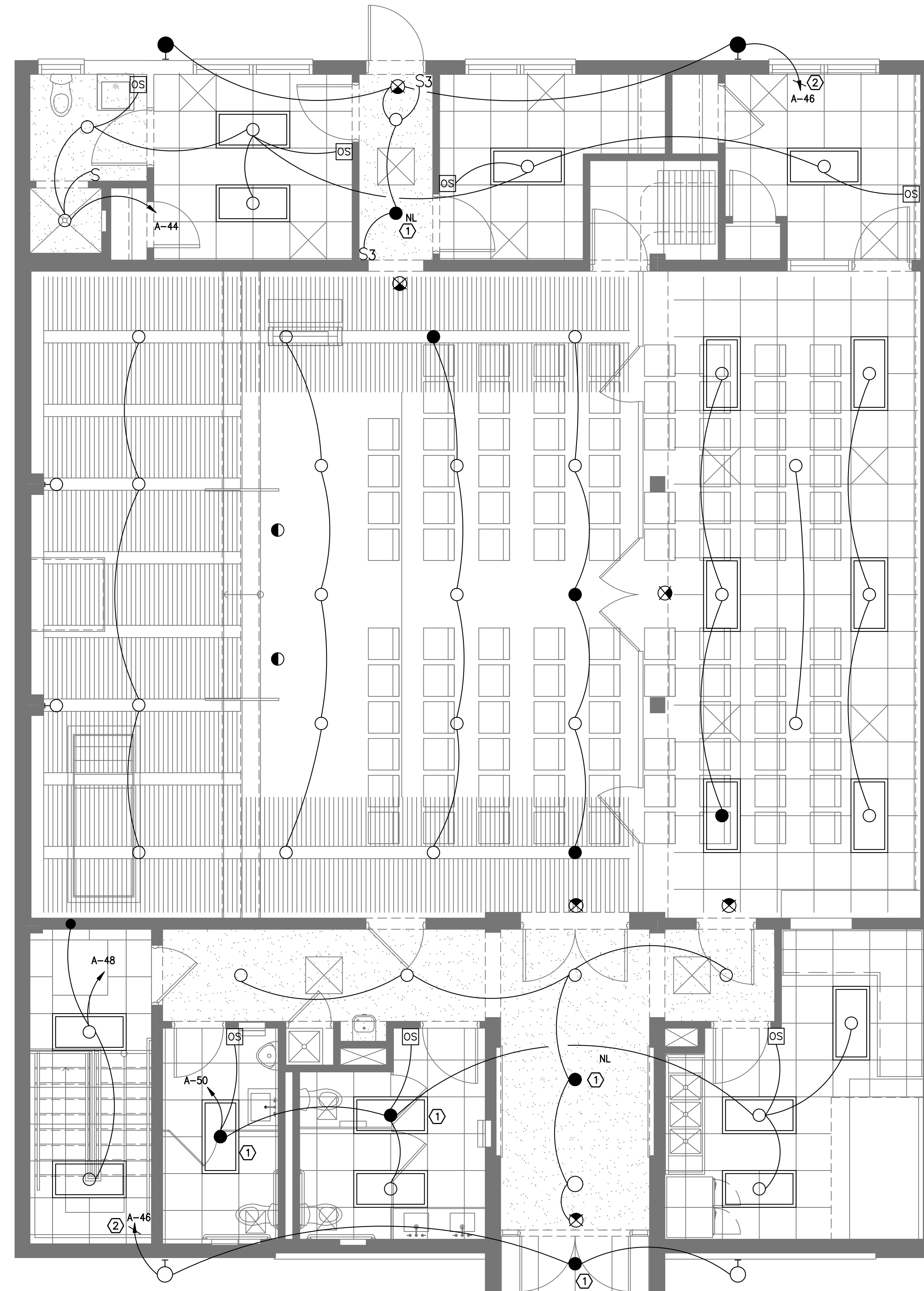
ELECTRICAL
COVER SHEET

Sheet Number:

E0.01



1 ELECTRICAL BASEMENT FLOOR PLAN LIGHTING
1/4"=1'-0"



2 ELECTRICAL FIRST FLOOR PLAN LIGHTING
1/4"=1'-0"

GENERAL NOTES

- SEE DRAWING E0.01 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND FIXTURE TYPES FOR ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL PROVIDE UPDATED, TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL AFFECTED PANELBOARDS, AT THE COMPLETION OF CONSTRUCTION. ONE COPY OF THESE SCHEDULES SHALL BE INSTALLED IN THE RESPECTIVE PANELBOARDS. ONE COPY SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND ONE COPY PROVIDED TO THE BUILDING ENGINEER.
- CONNECT EXIT NIGHT LIGHTS AND NIGHT LIGHT AHEAD OF SWITCH OR MOTION SENSOR.

SPECIFIC NOTES

- WIRE EMERGENCY LIGHTS SUCH THAT DURING POWER OUTAGE EMERGENCY LIGHT WILL BE LIT.(PROVIDE UNSWITCHED PHASE CONDUCTOR).
- VIA ASTRONOMIC TIME CLOCK. LOCATE TIME CLOCK BESIDE PANEL A.



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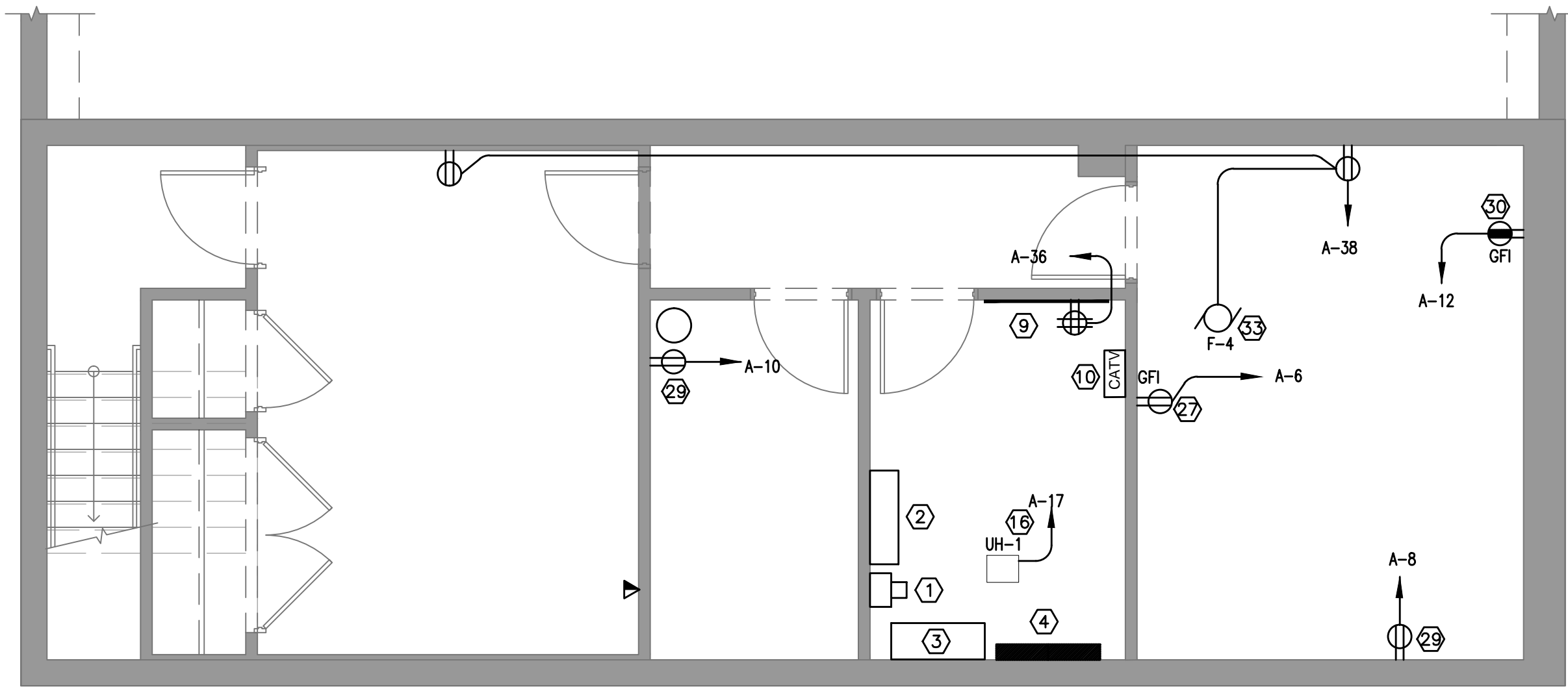
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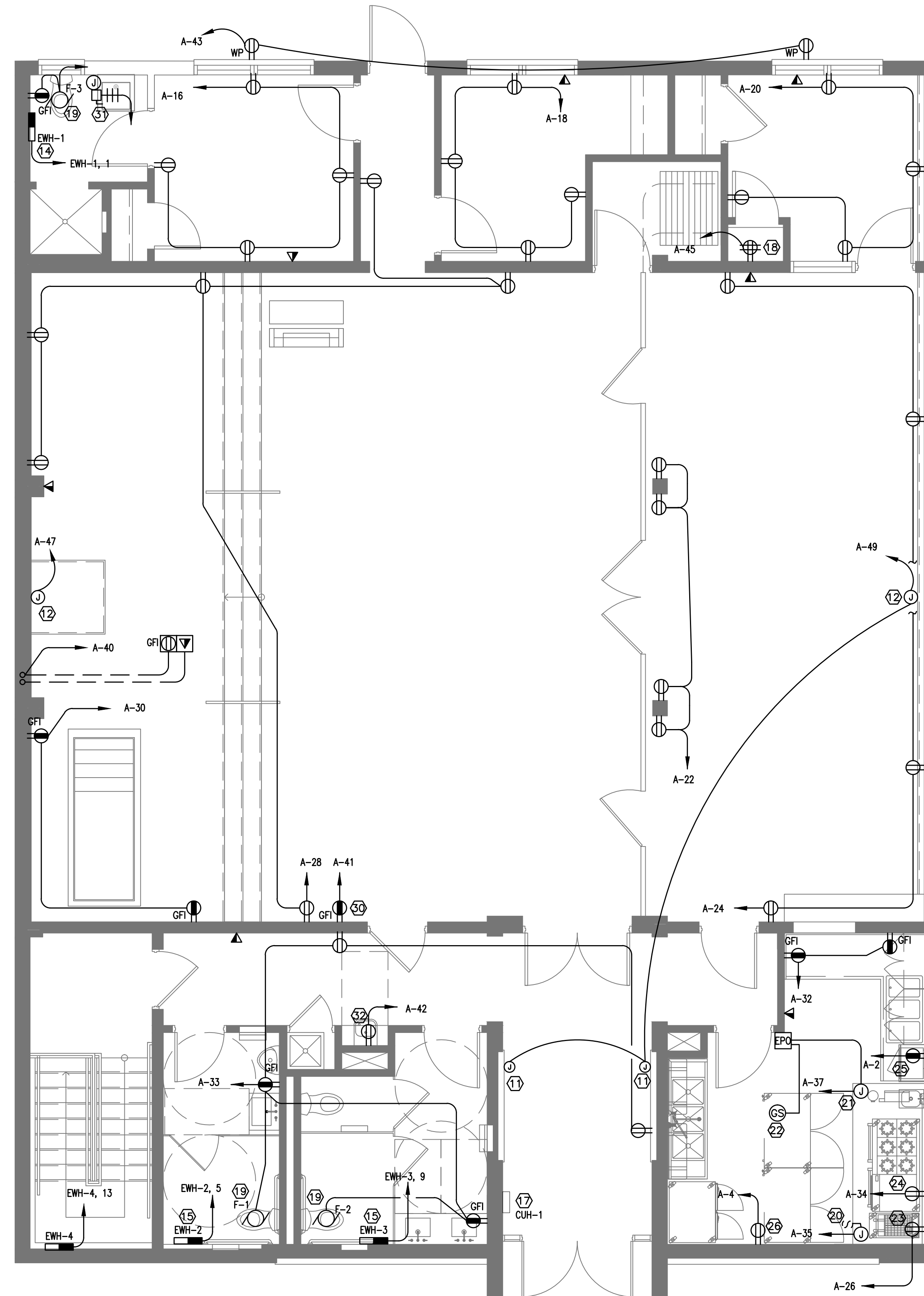
Sheet Title:
ELECTRICAL
BASEMENT AND FIRST
FLOOR PLAN LIGHTING

Sheet Number:

E1.01



1 ELECTRICAL BASEMENT FLOOR PLAN POWER
1/4"=1'-0"



2 ELECTRICAL FIRST FLOOR PLAN POWER
1/4"=1'-0"

GENERAL NOTES

1. SEE DRAWING E0.01 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANELBOARD SCHEDULES FOR ALL PANELBOARDS, AT THE COMPLETION OF CONSTRUCTION. ONE COPY OF THESE SCHEDULES SHALL BE INSTALLED IN THE RESPECTIVE PANELBOARDS, ONE COPY SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND ONE COPY PROVIDED TO THE BUILDING ENGINEER.
3. CLEARLY AND LEGIBLY LABEL EACH NEW RECEPTACLE WITH SOURCE PANEL AND CIRCUIT NUMBER.
4. EACH MECHANICAL OR PLUMBING EQUIPMENT TO BE FURNISHED WITH INTERNAL DISCONNECT UNO. SEE MECHANICAL AND PLUMBING DRAWINGS.
5. PROVIDE MOTOR STARTER, SIZE 1, FOR ALL EXHAUST FANS.

SPECIFIC NOTES

- 1 METER.
- 2 600 AMP - 120/208 VOLT C/T CABINET PER PEPCO STANDARDS AND REQUIREMENTS.
- 3 600 AMP MAIN DISTRIBUTION PANEL MDP 120/208 VOLT, 3 PHASE, 4 WIRE.
- 4 PANEL A (SECT. 1 & SECT. 2)
- 5 NOT USED.
- 6 NOT USED.
- 7 NOT USED.
- 8 SECURITY SYSTEM PANEL, COORDINATE LOCATION WITH ARCHITECT AND SECURITY SYSTEM VENDOR PRIOR TO COMMENCEMENT OF WORK.
- 9 TELEPHONE BACKBOARD. 8'-0"H X 3'-0"W X 3/4" THICK FIRE RETARDANT PLYWOOD PAINTED WITH TWO COATS OF MATTE BLACK ENAMEL.
- 10 CABLE TV BOX FURNISHED BY LOCAL CATV COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 11 JUNCTION BOX FOR DISPLAY CASE. FIELD COORDINATE EXACT LOCATION.
- 12 JUNCTION BOX FOR BACK LIGHT. FIELD COORDINATE EXACT LOCATION.
- 13 RECIRCULATION PUMP: 120/1. COORDINATE EXACT LOCATION WITH PLUMBER.
- 14 EWH-1: EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- 15 EWH-2 & 3: 1.5KW -208/1. EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- 16 UH-1: 1.5KW -208/1. EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- 17 CUH-1: xxkW -208/1. EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- 18 QUAD RECEPTACLE FOR AUDIO VISUAL.
- 19 F-1,2 & 3: 90W -120/1. EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.
- 20 EXHAUST HOOD LIGHTS: 120/1.
- 21 EXHAUST HOOD ANSUL FIRE PROTECTION: 120/1.
- 22 GAS SOLENOID INTERCONNECT TO ANSUL FIRE PROTECTION SYSTEM: 120/1.
- 23 RECEPTACLE FOR GAS FRYER: 7 AMPS -120/1.
- 24 RECEPTACLE FOR GAS RANGE: 120/1.
- 25 RECEPTACLE FOR MICROWAVE: 13.4 AMPS -120/1.
- 26 RECEPTACLE FOR REACH-IN REFRIGERATOR: 9.0 AMPS -120/1.
- 27 RECEPTACLE FOR REACH-IN FREEZER: 10.5 AMPS -120/1.
- 28 RECEPTACLE FOR GAS WATER HEATER WH-1: 120/1.
- 29 RECEPTACLE FOR SUMP PUMP: 120/1.
- 30 RECEPTACLE FOR POOL.
- 31 JUNCTION BOX FOR INSTANT HOT: 7.5KW - 208/3. PROVIDE A 3P -240V -30AMP DISCONNECT SWITCH FUSED AT 30 AMP.
- 32 RECEPTACLE FOR ELECTRIC WATER COOLER: 120/1.
- 33 F-4 (PRY ON ROOF): HP -120/1. EQUIPMENT PROVIDED WITH BUILT-IN DISCONNECT SWITCH.



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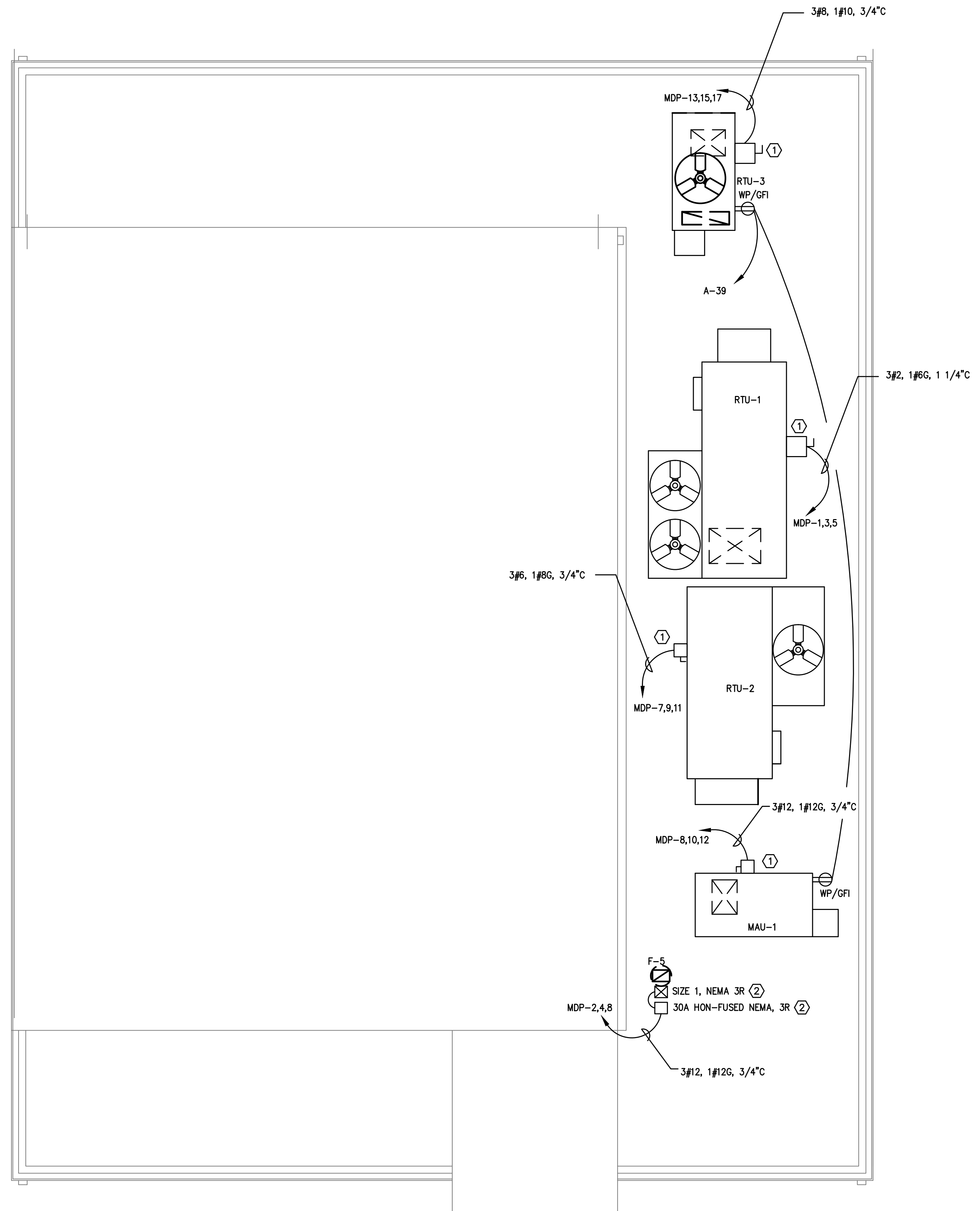
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Sheet Title:
ELECTRICAL BASEMENT AND FIRST FLOOR PLAN POWER

Sheet Number:

E1.02

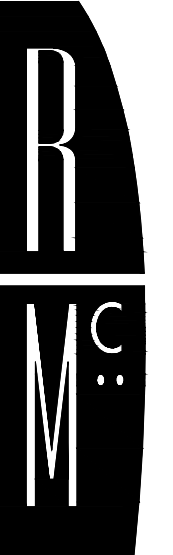


1 ELECTRICAL ROOF PLAN POWER
1/4"=1'-0"

GENERAL NOTES

SPECIFIC NOTES

- ① PROVIDED WITH THE UNIT.
- ② FIELD COORDINATE EXACT LOCATION.



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Sheet Title:
ELECTRICAL ROOF PLAN POWER

Sheet Number:
E1.03

PANELBOARD NAME: MDP (NEW)

VOLTAGE: 208Y/120V BUS RATING: 400A POLES: 42 MINIMUM A.I.C. RATING (A): 10,000

PHASE WIRE: 3 PHASE, 4 WIRE + GROUND MAIN: 400A MCB MOUNTING: SURFACE SERVICE: NORMAL

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P TRIP	LOAD (VA)	PHASE LOAD (VA)			LOAD (VA)	BKR P TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
					A	B	C					
1	M	RTU-1	3 100	9300	10860			1560	3 30	F-5	M	2
3				9300		10860		1560				4
5				9300			10860	1560				6
7	M	RTU-2	3 70	5040	5943			903	3 20	MAU-1	M	8
9				5040		5943		903				10
11				5040		5943		903				12
13	M	RTU-3	3 35	2520	2520			2520	3 30	HOT WATER	M	14
15				2520		2520		2520				16
17				2520			2520					18
19		SPACE	3 20						3 225	PANEL A		20
21			--									22
23			--									24
25		SPACE	3 20									26
27									3	SPACE		28
29												30
31												32
33												34
35												36
37												38
39												40
41												42

TOTAL CONNECTED LOAD (A): 160.9 53.6 53.6 53.6 (AMPS/PHASE)
 TOTAL CONNECTED LOAD (VA): 57,969 19,323 19,323 19,323 (VA/PHASE)

#BOLD INDICATES NEW

LOAD TYPE	CONNECTED		DEMAND	
	VA	AMPS	VA	AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)		C		
RECEPTACLES (1st 10kVA @100% + REST @ 50%)		R		
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	57,969	M	161	64,944
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)		K		
NON-CONTINUOUS LOADS (@100%)		N		
STANDBY LOADS		S		
TOTAL CONNECTED & DEMAND LOAD (kVA):	63.9		79.9	
TOTAL CONNECTED & DEMAND LOAD (A):	160.9		180.3	

PROVIDE ITEMS MARKED BELOW:

DOOR-IN-DOOR CONSTRUCTION

SHUNT-TRIP ON MAIN DEVICE

FEED-THRU LUGS

SERVICE NEUTRAL (S/N)

ISOLATED GROUND BUS

200% NEUTRAL

NEMA 3R

OTHER: _____

PANELBOARD NAME: A (NEW)

VOLTAGE: 208Y/120V BUS RATING: 225A POLES: 42 MINIMUM A.I.C. RATING (A): Match PEPCO

PHASE WIRE: 3 PHASE, 4 WIRE + GROUND MAIN: MLO MOUNTING: SURFACE SERVICE: NORMAL

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P TRIP	LOAD (VA)	PHASE LOAD (VA)			LOAD (VA)	BKR P TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
					A	B	C					
1	C	EWV-1	2 20	1608			1608	1 20		MICROWAVE	C	2
3	C			1080		1080		1080	1 20	REFRIGERATOR	C	4
5	C	EWV-2	2 60	7500			8760	1260	1 20	FREEZER	C	6
7	C			7500	8676			1176	1 20	WATER HEATER	C	8
9	C	EWV-3	2 60	7500		8676		1176	1 20	SUMP PUMP	C	10
11				7500			7620	120	1 20	FOUNDATION SUMP PUMP	C	12
13	C	EWV-4	2 20	120				120	1 20	UJ-1 (WATER METER)	C	14
15								720	1 20	RECEPTACLE	C	16
17	C	UH-1	2 60	7500		720		8220	1 20	RECEPTACLE	C	18
19				7500	8220			720	1 20	RECEPTACLE	C	20
21	C	CJH-1	2 20			720		720	1 20	RECEPTACLE	C	22
23							720	720	1 20	RECEPTACLE	C	24
25	C	F-1	1 20		100			100	1 20	RECEPTACLE FOR GAS RFRY	C	26
27	C	F-2	1 20			1080		1080	1 20	RECEPTACLE	C	28
29	C	F-3	1 20			360		360	1 20	RECEPTACLE	C	30
31	C	F-4	1 20			360		360	1 20	RECEPTACLE	C	32
33	C	RECEPTACLE	1 20	640		760		120	1 20	RECEPTACLE	C	34
35	C	EXHAUST HOOD LIGHTS	1 20	300			660	360	1 20	RECEPTACLE	C	36
37	C	EXHAUST HOOD ANSUL	1 20	100	660			560	1 20	RECEPTACLE	C	38
39	C	RECEPTACLE	1 20	360		720		360	1 20	RECEPTACLE	C	40
41	C	RECEPTACLE	1 20	528			648	120	1 20	WATER COOLER	C	42

TOTAL CONNECTED LOAD (A): 167.9 164.4 114.5 224.7 (AMPS/PHASE)
 TOTAL CONNECTED LOAD (VA): 60,488 19,744 13,756 26,988 (VA/PHASE)
 TOTAL CONNECTED LOAD_SEC 2 (VA): 2,036 360 1,676 (VA/PHASE)

#BOLD INDICATES NEW

LOAD TYPE	CONNECTED		DEMAND	
	VA	AMPS	VA	AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)		C	61,864	515
RECEPTACLES (1st 10kVA @100% + REST @ 50%)		R	77,330	644
MECH. LOADS (LARGEST @ 125% + REST @ 100%)		M		
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)		K		
NON-CONTINUOUS LOADS (@100%)		N		
STANDBY LOADS		S		
TOTAL CONNECTED & DEMAND LOAD (kVA):			63.9	79.9
TOTAL CONNECTED & DEMAND LOAD (A):			177.4	221.7

PROVIDE ITEMS MARKED BELOW:

DOOR-IN-DOOR CONSTRUCTION

SHUNT-TRIP ON MAIN DEVICE

FEED-THRU LUGS

SERVICE NEUTRAL (S/N)

ISOLATED GROUND BUS

200% NEUTRAL

NEMA 3R

OTHER: _____

PANELBOARD NAME: SECTION 2 (NEW)

BUS RATING: 225A POLES: +42 MAIN: MLO

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P TRIP	LOAD (VA)	PHASE LOAD (VA)			LOAD (VA)	BKR P TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
					A	B	C					
43	C	RECEPTACLE	1 20	360			360	1 20		LIGHTS	C	43
45	C	RECEPTACLE	1 20	500		500		500	1 20	LIGHTS	C	45
47	C	JUNCTION BOX	1 20						1 20	LIGHTS	C	48
49	C	JUNCTION BOX	1 20						1 20	LIGHTS	C	50
51	C	RECEPTACLE	1 20	1176		1176		1176	1 20	LIGHTS	C	52
53			1 20						1 20			54
55			1 20						1 20			56
57			1 20						1 20			58
59			1 20						1 20			60
61			1 20						1 20			62
63			1 20						1 20			64
65			1 20						1 20			66
67			1 20						1 20			68
69			1 20						1 20			70
71			1 20						1 20			72
73			1 20						1 20			74
75			1 20						1 20			76
77			1 20						1 20			78
79			--						--			80
81			--						--			82
83			--						--			84

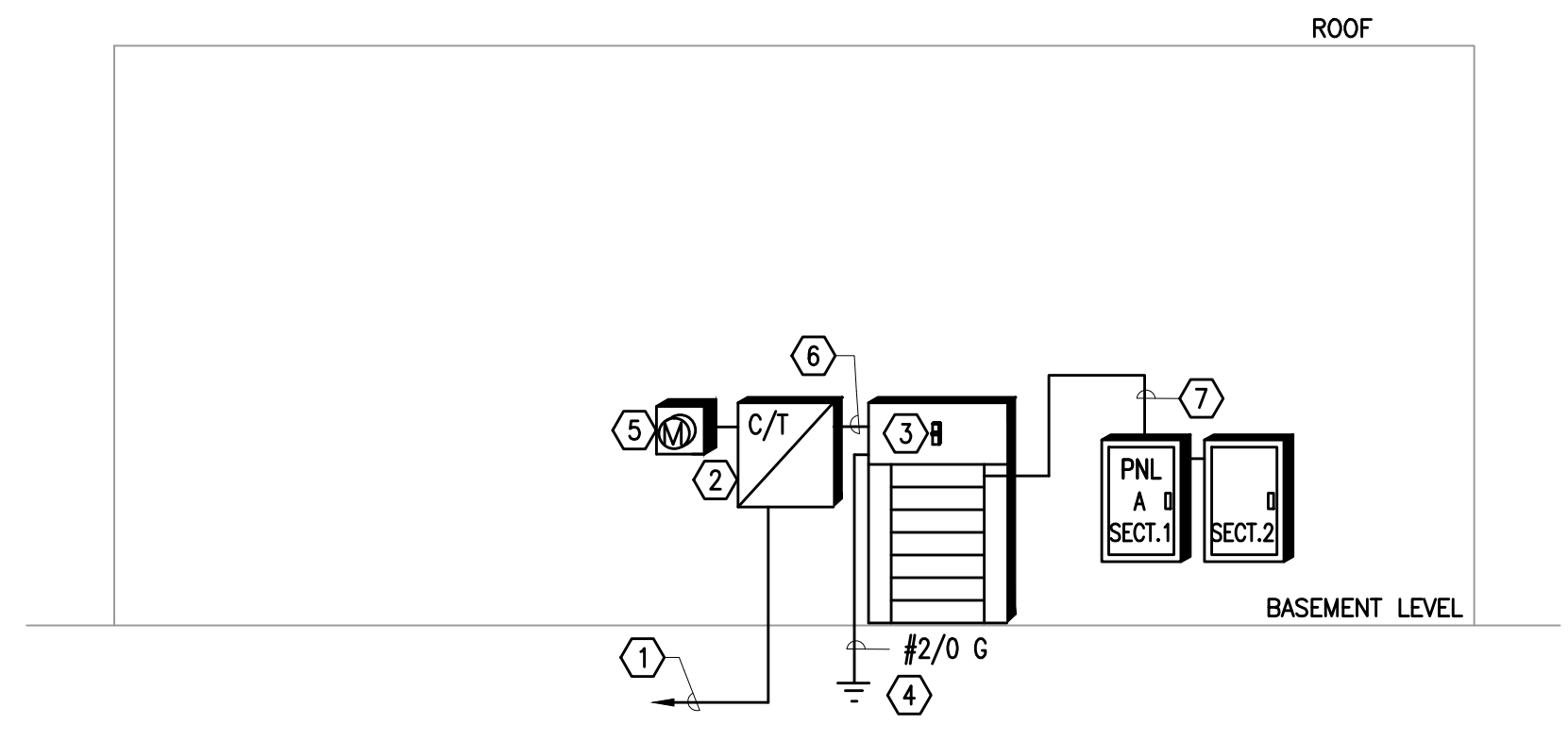
TOTAL CONNECTED LOAD (A): 5.7 3.0 14.0 (AMPS/PHASE)
 TOTAL CONNECTED LOAD (VA): 2,036 360 1,676 (VA/PHASE)

#BOLD INDICATES NEW

LOAD TYPE	CONNECTED	
	VA	AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	2,036	17
RECEPTACLES (1st 10kVA @100% + REST @ 50%)		R
MECH. LOADS (LARGEST @ 125% + REST @ 100%)		M
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)		K
NON-CONTINUOUS LOADS (@100%)		N
STANDBY LOADS		S
TOTAL CONNECTED & DEMAND LOAD (kVA):	2.0	8
TOTAL CONNECTED & DEMAND LOAD (A):	5.7	24

NOTES:

3 ELECTRICAL PANEL SCHEDULE
NOT TO SCALE



- ELECTRICAL RISER NOTES:**
- 1 INCOMING SECONDARY ELECTRICAL SERVICE BY PEPCO CO., PROVIDE CONDUIT OR DUCTBANK PER PEPCO REQUIREMENTS W/PULL WIRES FOR POWER CO. USE FROM TRANSFORMER TO C/T CABINET. COORDINATE ALL REQUIREMENTS W/PEPCO PRIOR TO PERFORMING ANY WORK.
 - 2 400 AMP - 120/208 VOLT PEPCO C/T CABINET.
 - 3 400 AMP - 120/208 VOLT MAIN DISTRIBUTION PANEL MDP
 - 4 GROUND TO BUILDING STEEL, GROUND RODS, AND COLD WATER INCOMING SERVICE.
 - 5 METER PER PEPCO STANDARDS AND REQUIREMENTS.
 - 6 4#500 KCML + 1#36, 4"CONDUIT.
 - 7 4#4/0 + 1#4G IN 2-1/2" CONDUIT.

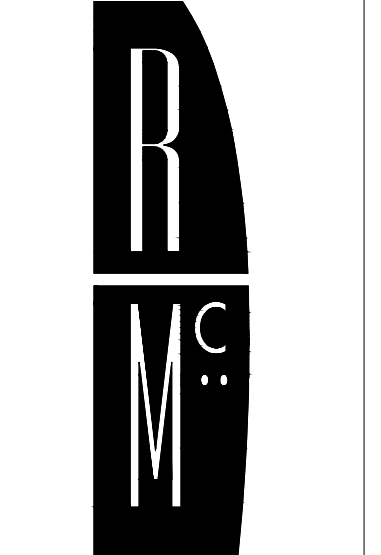
1 ELECTRICAL POWER RISER DIAGRAM
NOT TO SCALE

LOAD ANALYSIS CALCULATIONS

LOAD	VA	AMPS
LIGHTING, 4524 SF @ 1VA/SF	4524	37
CONVENIENCE OUTLET, 4524 SF @ 1 VA/SF	4524	37
OFFICE TECHNOLOGY, 4524 SF @ 1 VA/SF	4524	37
KITCHEN APPLIANCES GAS	6000	50
WATER HEATER,	7500	62.5
HVAC, GAS HEAT	51000	425
ELECTRIC HEATER	7500	62.5
FAN	7926	66
LARGEST MOTOR X 0.25 (RTU-1,78FLA)	7025	58.5
TOTAL:	100,523	837.5

OR 279A @ 208Y/120V, 3PH, 4W USE 400A SERVICE.

2 LOAD ANALYSIS CALCULATIONS
NOT TO SCALE



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Project Number:
2010-4318

Revisions:

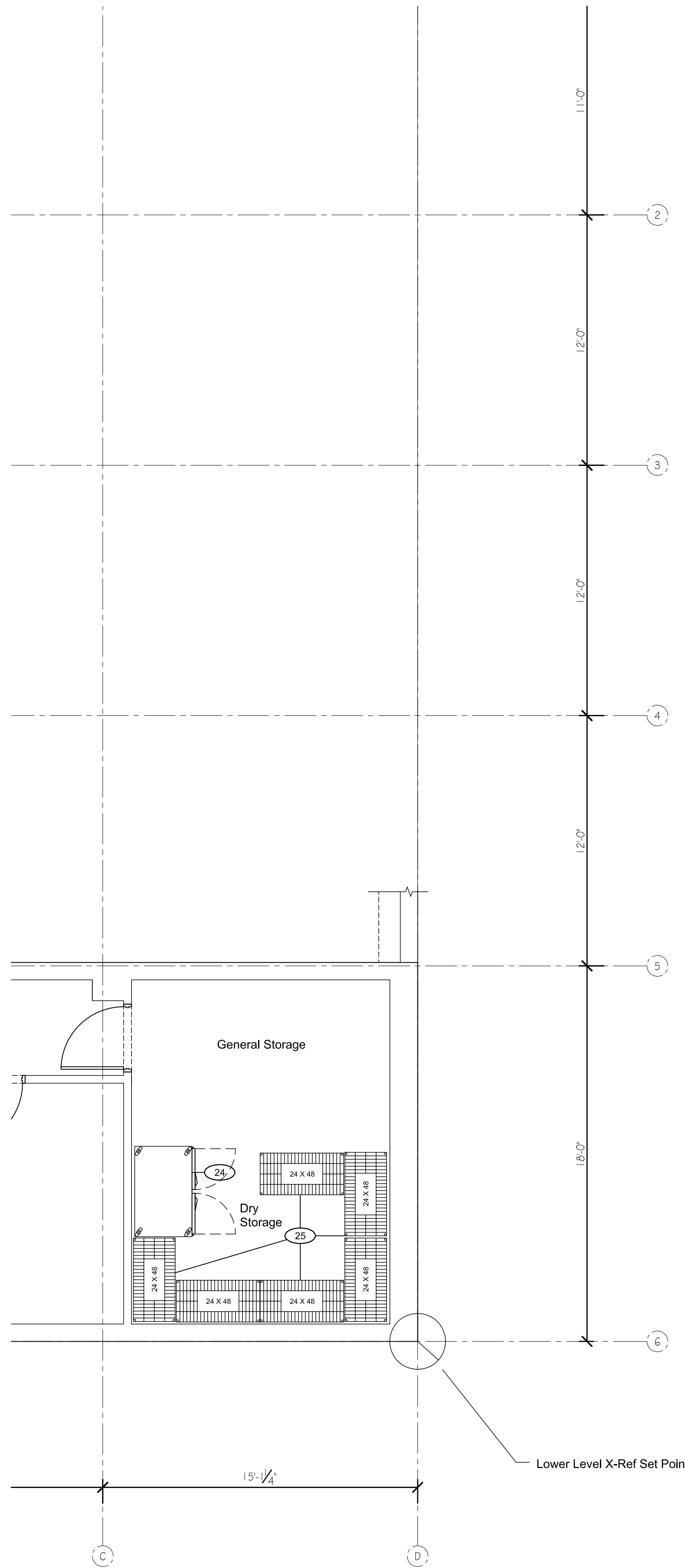
No.	Date

75%
CONSTRUCTION DOCUMENTS

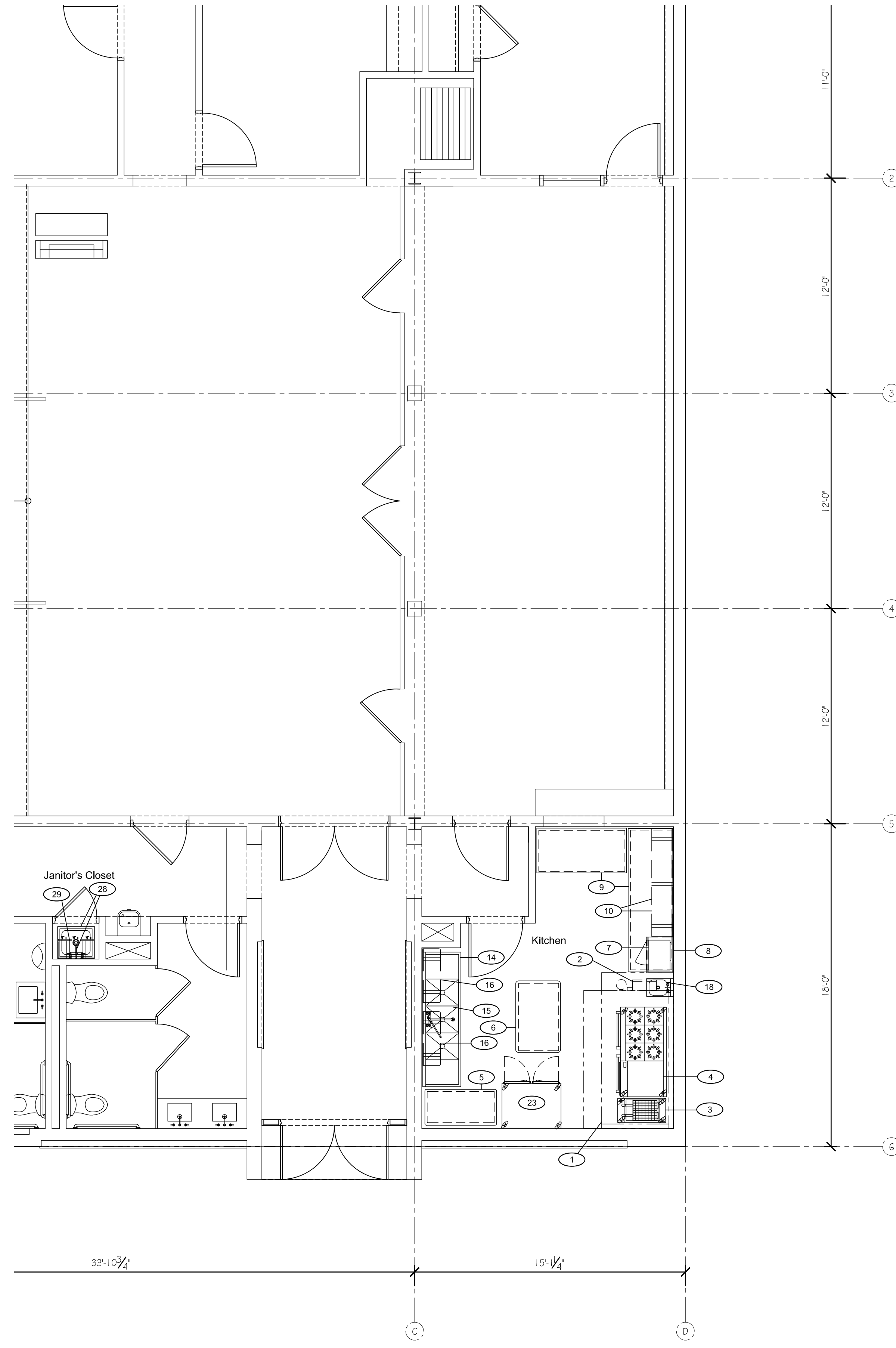
Issue Date:
07-08-2011

Sheet Title:
ELECTRICAL POWER RISER, PANEL SCHEDULES AND DETAILS

Sheet Number:
E3.01



LOWER LEVEL FOOD SERVICE EQUIPMENT PLAN



MAIN FLOOR FOOD SERVICE EQUIPMENT PLAN

EQUIPMENT SCHEDULE			
Item	Qty.	Description	Remarks
1	1	Exhaust Hood with Exhaust & HMUA Fans	
2	1	Fire Suppression System	
3	1	Split Tank Fryer, Gas Fired, Mobile	
4	1	Six Burner Range with Raised Griddle & Oven	Gas Fired, Mobile
5	1	Work Table	
6	1	Work Table	
7	1	Microwave Oven	
8	1	Wall Shelf for Microwave Oven	
9	2	Work Tables	
10	2	Wall Shelves	
11	-	Spare Number	
12	-	Spare Number	
13	-	Spare Number	
14	1	Three Compartment Utensil Wash Sink	
15	1	Pre-Rinse Spray Faucet with Add-On Nozzle	
16	2	Wall Shelf	
17	-	Spare Number	
18	1	Hand Sink with Soap & Towel Dispenser	
19	-	Spare Number	
20	-	Spare Number	
21	-	Spare Number	
22	-	Spare Number	
23	1	Reach-In Upright Refrigerator, Two Door, Mobile	
24	1	Reach-In Upright Freezer, Two Door, Mobile	
25	6	Dry Storage Shelving Units, Five Tier High	NIKEC - Future
26	-	Spare Number	
27	-	Spare Number	
28	1	Mop Sink with Service Faucet	NIKEC - By Owner
29	1	Utility Wall Shelf with Mop Hangers	NIKEC - By Owner
30	-	Spare Number	

NIKEC - Not In Kitchen Equipment Contract

PRELIMINARY
NOT FOR CONSTRUCTION
PROGRESS SET

THESE ARE PROGRESS DOCUMENTS INTENDED TO PROVIDE COORDINATION INFORMATION AND ARE SUBJECT TO CHANGE WITH THE DESIGN PROGRESS. ALL ENTITIES ARE RESPONSIBLE FOR FINAL COORDINATION OF THEIR WORK WITH THE FOOD SERVICE EQUIPMENT AS REPRESENTED BY THESE DOCUMENTS AS IT IMPACTS THEIR RESPECTIVE SECTIONS OF THE CONSTRUCTION. FINAL COORDINATION MAY BE NECESSARY WHEN THE FINAL DOCUMENTS ARE COMPLETED AND ISSUED. IT IS THE RESPONSIBILITY OF ALL ENTITIES TO REVIEW AND UPDATE THEIR DOCUMENTS AS REQUIRED UPON THE FINAL DOCUMENTS ARE ISSUED.

No.	Revision	Date

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Sheet Title
 Preliminary
 Food Service Equipment
 Plan & Schedule

Drawn by: BOH
 Date: 07.05.2011
 Scale: 1/4" = 1'-0"

Sheet
FS-1