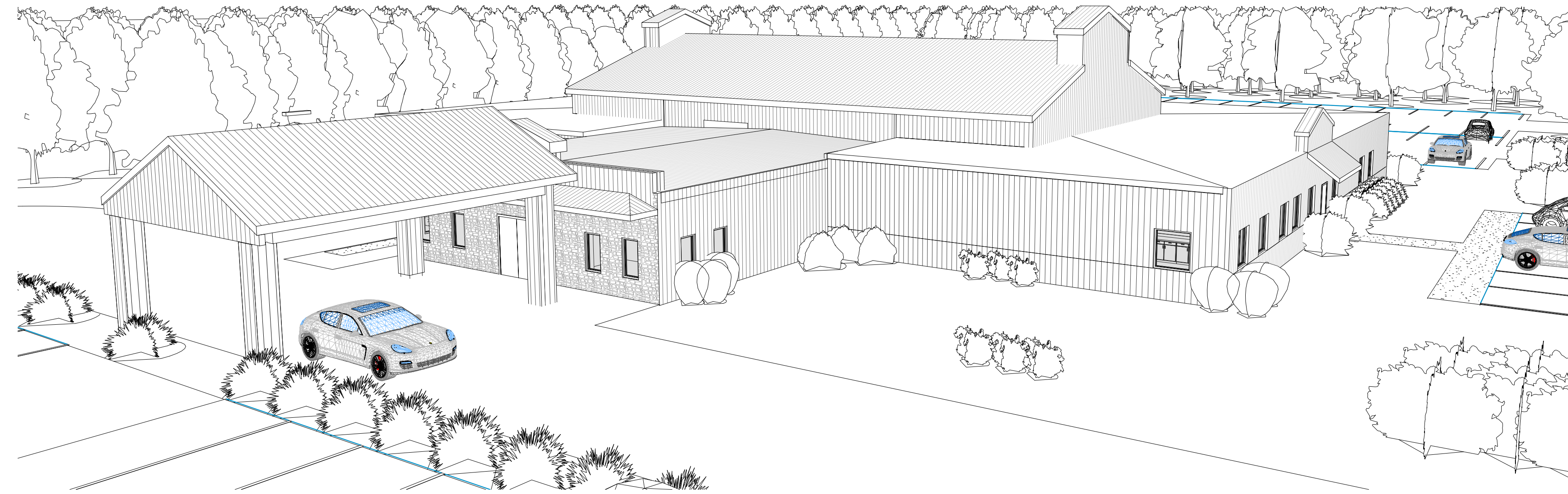


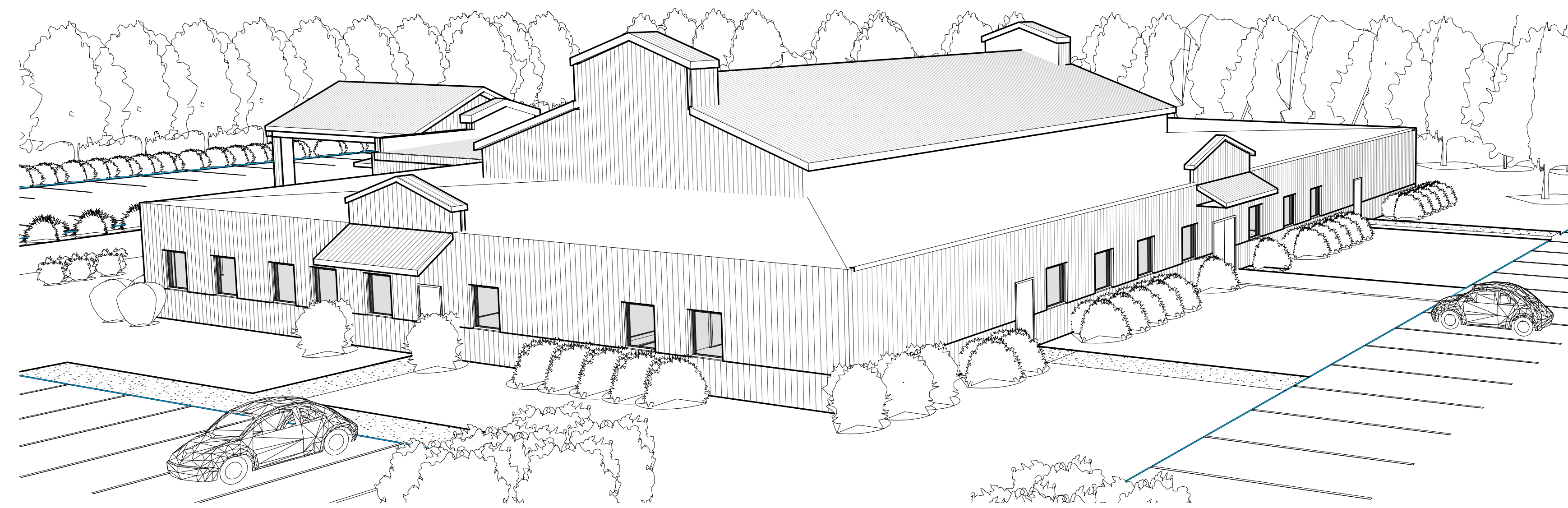
# EAST WINDSOR COMMUNITY CENTER

Alterations & Additions  
Former Scout Hall Youth Center

28 Abbe Road  
East Windsor, CT 06088



② Front View



① Rear View

ISSUE DATE: September 20, 2022

DRAWING LIST				
CURRENT REVISION NO	SHEET NO	SHEET NAME	CURRENT REVISION DATE	ISSUE DATE
G0		TITLE SHEET		
G1		GENERAL INFORMATION		
G2		CODE SHEET AND EGRESS PLANS		
C1		EXISTING CONDITIONS & DEMOLITION PLANS		
C2		SITE PLAN		
C3		DETAIL SHEET		
AD1		DEMOLITION PLAN		
A1		GROUND FLOOR PLAN		
A2		BASEMENT & ENLARGED RM PLANS & FINISH SCHEDULE		
A3		REFLECTED CEILING PLANS		
A4		ROOF PLAN		
A5		STAIR PLANS & SECTIONS		
A6		EXTERIOR ELEVATIONS		
A7		BUILDING & WALL SECTIONS & DETAILS		
A8		SECTIONS THRU PORTE COCHERE & STAIR		
A9		INTERIOR ELEVATIONS		
A10		DOOR SCHEDULE & DETAILS		
S1		GENERAL NOTES & DESIGN CRITERIA & TYPICAL DETAILS		
S2		FOUNDATION AND GROUND LEVEL FRAMING PLAN		
S3		ROOF FRAMING PLAN		
S4		FOUNDATION SECTIONS		
S4.1		FOUNDATION SECTIONS		
S5		PIER TYPES & TYPICAL CONCRETE DETAILS		
S6		TYPICAL STEEL DETAILS		
S7		SECTION DETAILS		
S8		SECTION DETAILS		
S9		ELEVATIONS		
S10		ELEVATIONS		
S11		COLD FORMED METAL FRAMING DETAILS		
FP1		FLOOR PLAN FIRE & PLUMBING		
FP2		FLOOR PLAN FIRE & PLUMBING		
FP3		SPRINKLER LAYOUT FIRE & PLUMBING		
FP4		DETAILS FIRE & PLUMBING		
FP5		FIRE & PLUMBING SPECIFICATIONS		
M4		MECHANICAL SCHEDULES		
M1		MECHANICAL BASEMENT & FLOOR PLAN		
M2		MECHANICAL/ALTERNATE ASSEMBLY ROOF PLAN		
M3		MECHANICAL ROOF PLAN		
E1		ELECTRICAL BASEMENT PLAN		
E2		ELECTRICAL LIGHTING FLOOR PLAN		
E3		ELECTRICAL POWER FLOOR PLAN		
E4		ELECTRICAL ROOF PLAN		
E5		ELECTRICAL DETAILS		
E6		ELECTRICAL POWER RISER		

**PVE-LLC**  
STRUCTURAL ENGINEERS

100 Wells Street, Suite 2K  
Hartford, CT 06103  
860-522-3970

**JR RUSSO & ASSOCIATES**  
Civil Engineers & Land Surveyors

One Shoham Road  
East Windsor, CT 06088  
860-623-0569

**ACORN**  
Consulting Engineers, Inc.

P.O. Box 311  
Farms Village Plaza  
244 Farms Village Road  
West Simsbury, CT 06092  
860-651-1949

**STEPHEN JAGER**  
Associates, LLC  
Consulting Architect

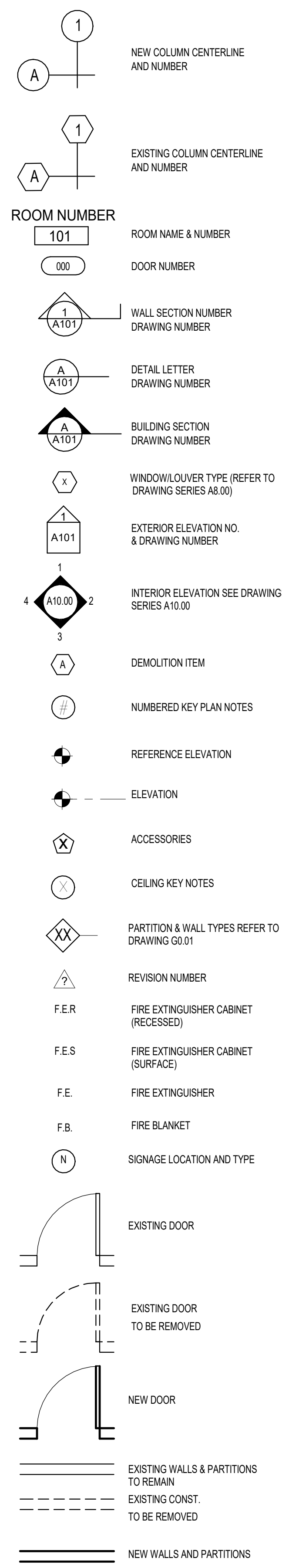
4 Grand View Drive  
Enfield, CT 06082  
860-803-1265  
sjsl@aol.com



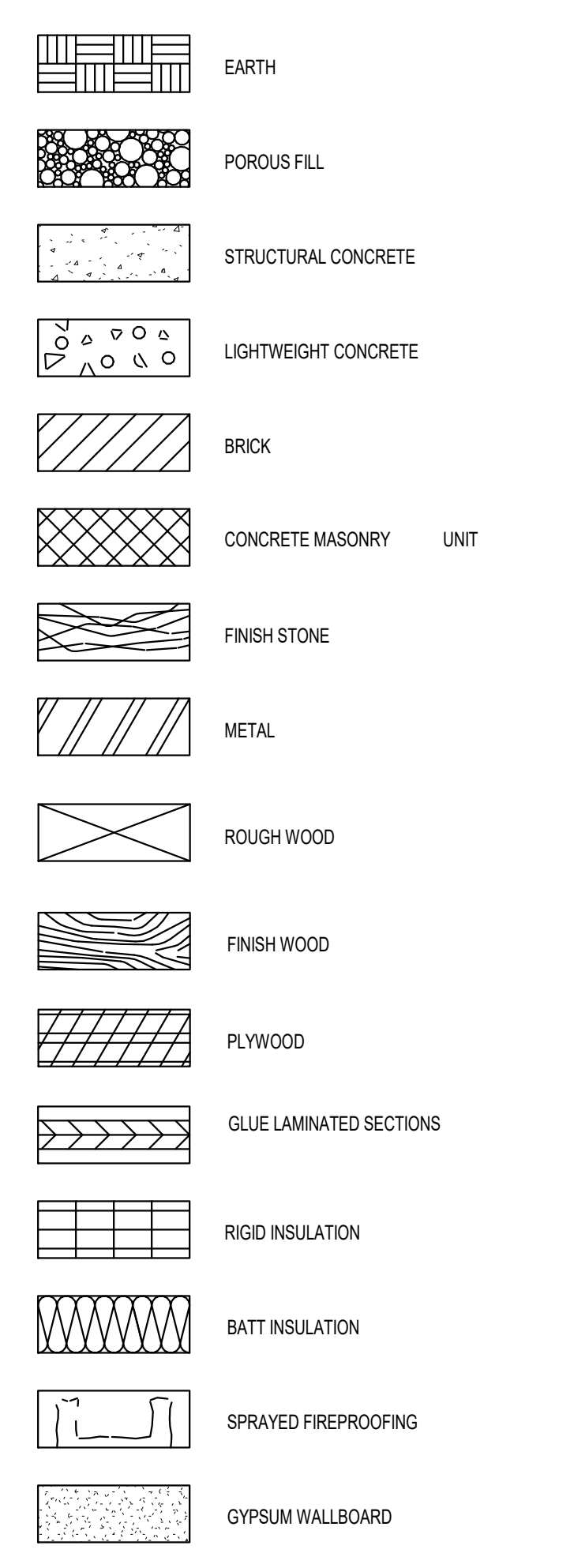
ABBREVIATIONS

Table of abbreviations including ADA, A.F.F., A.P., A.S., A.V., AC, AC.BD, ACT, ADD, ADJ, ALT., ALUM, APPROX, ARCH, B.M., BD, BLDG, BLK, BKG, BM, B.O., BOT, BRK, BUR, C, C TO C, CB, C.J., C.C.L. OR L, CMU, CEM, CMF, CLG, CLO, CNTR, CTR, COMM, CONC, CONF, CONN, CONST, CONTR, CORR, CRT, CTR, CUST, DBL, DEPT, DET, DA, DN, DNSPT, DR, DWG, E, EA, EDUC, EIFS, EL, ELEC, ELEV, ENCL, ENT, EQ, EQUIP, EXXEXIST, E.J, EXP. JT., EXT., F.E, F.E.C, F.H.C, F.SP, F.D, FDN, FNL, FRT, FL, FLUOR, FT, OR, FTG, FURR, FUT, FVC, G.C, GALV, GEN, GL, GR, GUID, GYP, GYP. BD, HC, HM, HDWR, HT, HORIZ, H.V.A.C, IN, OR, INCL, L.P, LAB, LAM, LAV, L.F, LKR, LOC, LT, LTWT, M.O, MACH, MAS, MAX, MATL, MECH, MFR, MN, MISC, MLDG, MTD.

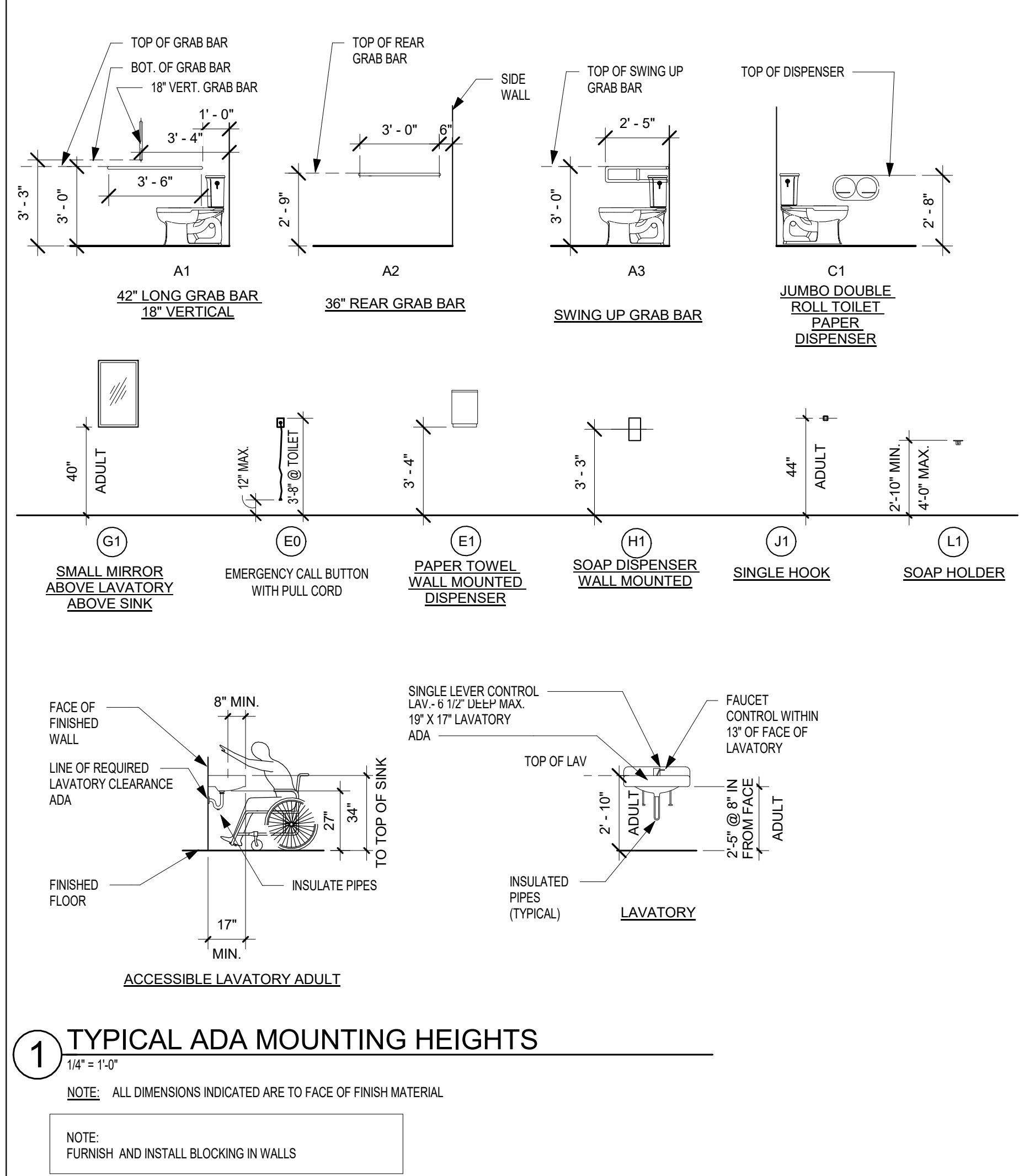
SYMBOLS



MATERIALS LEGEND



FIXTURE & EQUIPMENT MOUNTING HEIGHTS



GENERAL NOTES

- 1. EACH TRADE CONTRACTOR IS RESPONSIBLE FOR THOROUGHLY REVIEWING ALL OF THE CONSTRUCTION DOCUMENTS TO COORDINATE THEIR WORK WITH OTHER TRADE CONTRACTORS.
2. ALL CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND.
3. THE LOCATION OF ALL TRAILERS, STORAGE STRUCTURES, LAY DOWN AREAS AND OTHER TEMPORARY SITE FACILITIES SHALL BE APPROVED BY THE OWNER AND FIRE MARSHAL.
4. SEAL NEW OPENINGS AROUND PIPE, CONDUITS, DUCTS, ETC. WITH FIRESTOPPING/ SMOKE RESISTANT NON-COMBUSTIBLE MATERIALS IN ACCORDANCE WITH WALL SECTIONS, PARTITION NOTES/ SCHEDULE.
5. REFER TO PLUMBING, MECHANICAL HVAC, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF ALL EQUIPMENT. COORDINATE LOCATIONS AND SIZES WITH APPROVED/PURCHASED EQUIPMENT.
6. BLOCKING/SUPPORT REQUIREMENTS IN DRYWALL CONSTRUCTION FOR ALL "NOT IN CONTRACT" (N.I.C.) EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF ALL REQUIRED WORK OUTSIDE OF SCOPE AREA AND GENERAL CIRCULATION AREAS WITH OWNER.
8. CONTRACTOR SHALL COORDINATE CONTAINMENT PROCEDURES OF ALL REQUIRED WORK OUTSIDE OF SCOPE AREA AND GENERAL CIRCULATION AREAS WITH OWNER.
9. ANY PENETRATIONS THROUGH EXISTING WALLS OR NEW CONSTRUCTION SHALL BE PROPERLY SEALED TO MEET THE FIRE RATINGS LISTED IN THE CODE DATA.

OWNER NOTES

- 1. OWNER WILL SUPPLY AND INSTALL SECURITY CAMERAS AND EQUIPMENT.
2. OWNER SHALL SUPPLY AND INSTALL NEW RESOURCE ROOM REFRIGERATOR.
3. OWNER SHALL SUPPLY AND INSTALL ALL WALL MOUNTED TV'S.
4. OWNER SHALL FURNISH AND INSTALL FURNITURE AND EQUIPMENT.

PROJECT NAME:

Alterations & Additions East Windsor Community Center

PROJECT ADDRESS:

28 Abbe Road East Windsor, CT 06088

PROJ NO:

2021.33

ISSUE DATE:

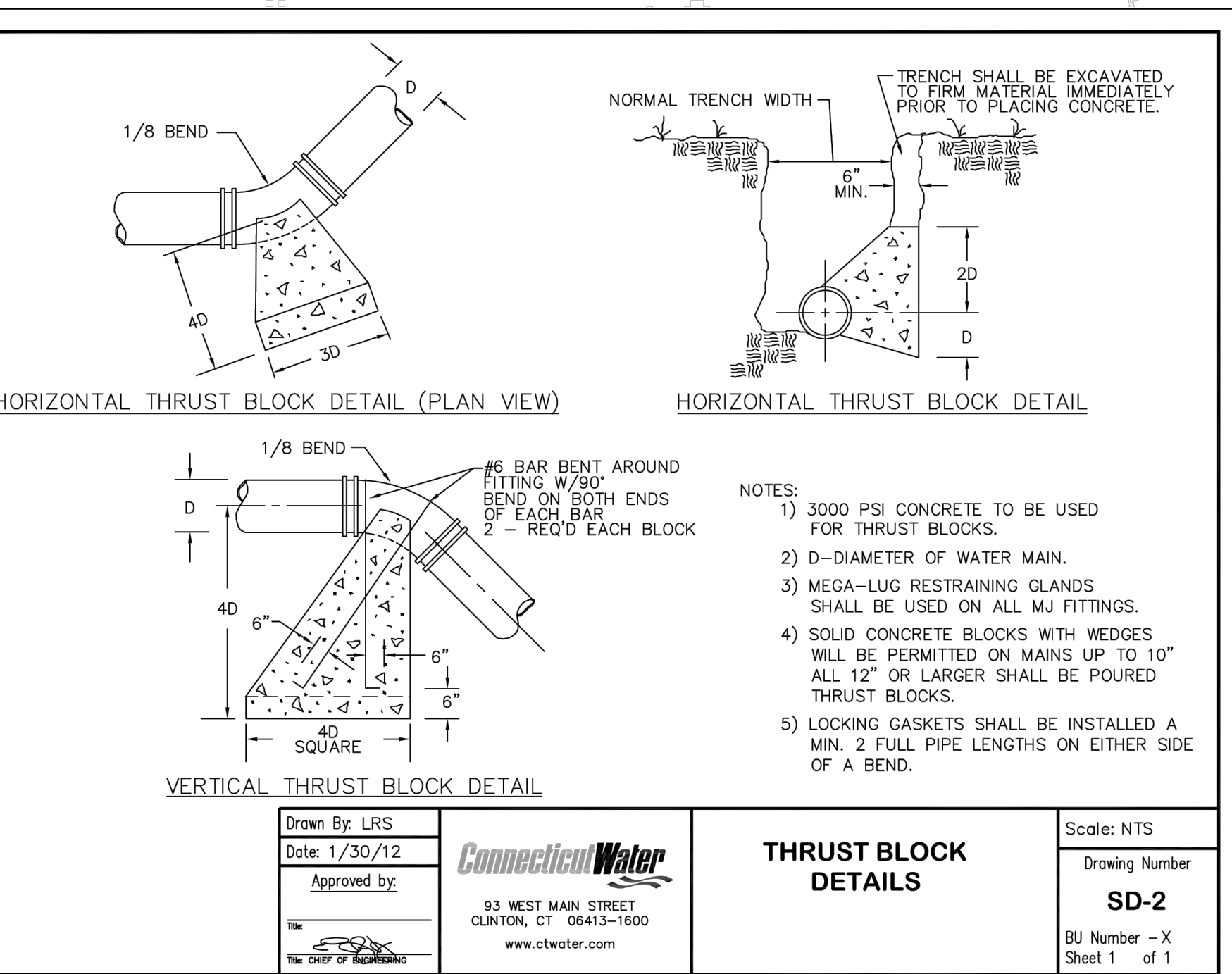
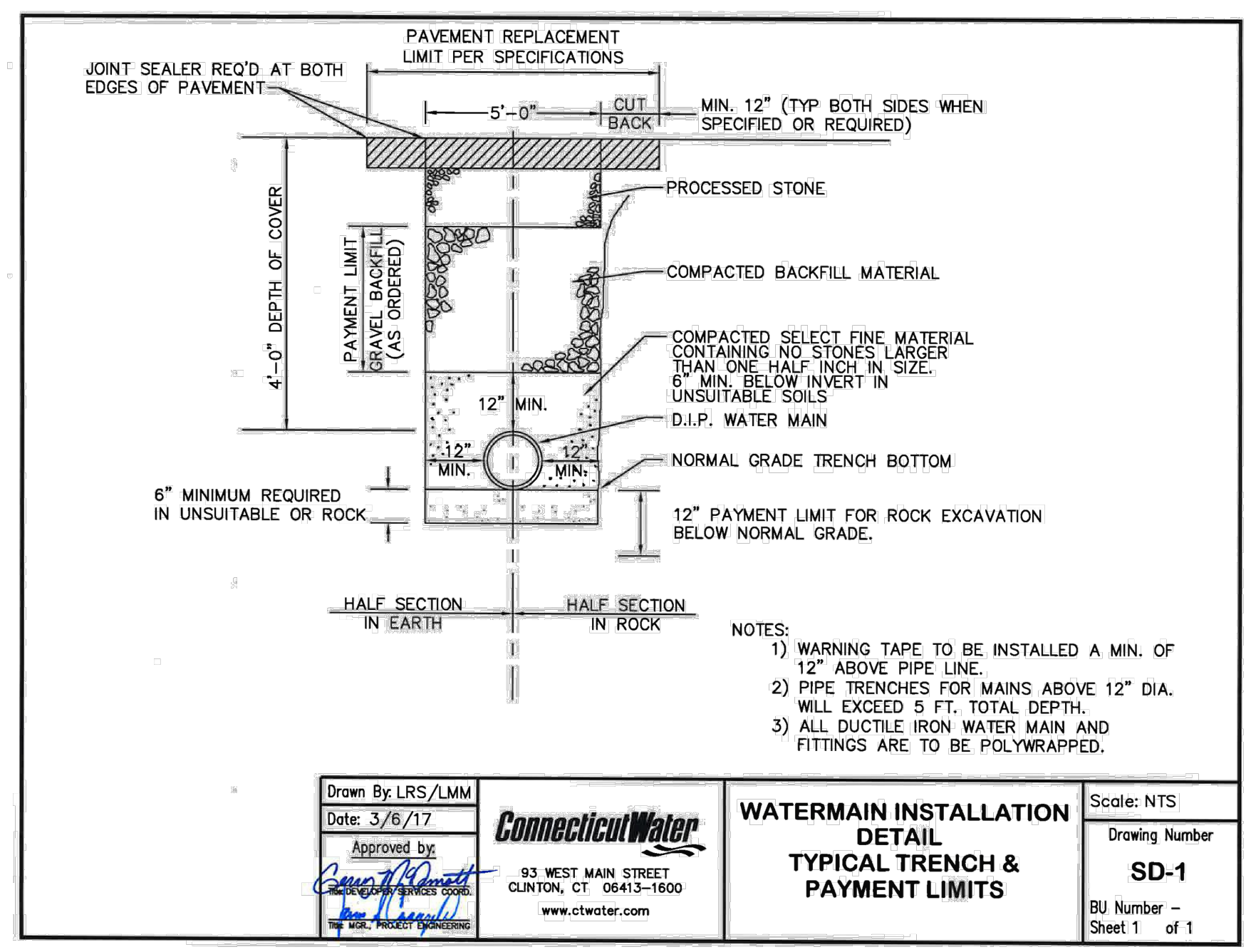
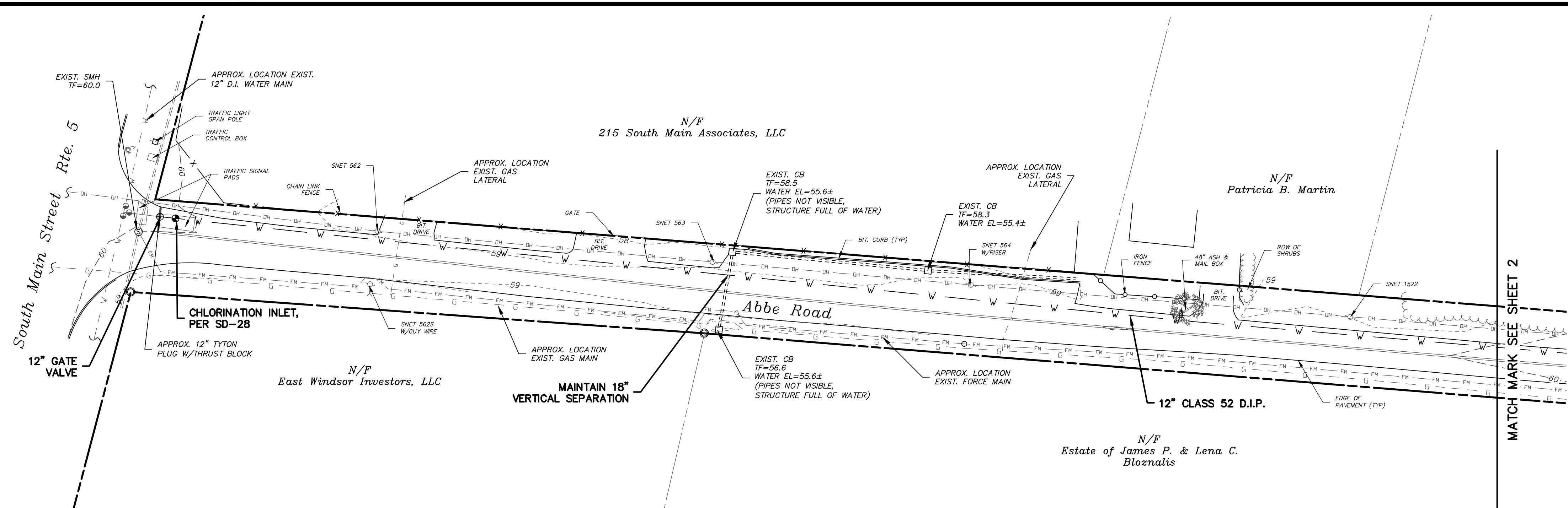
9/20/2022

REVISION DATE:

DRAWING

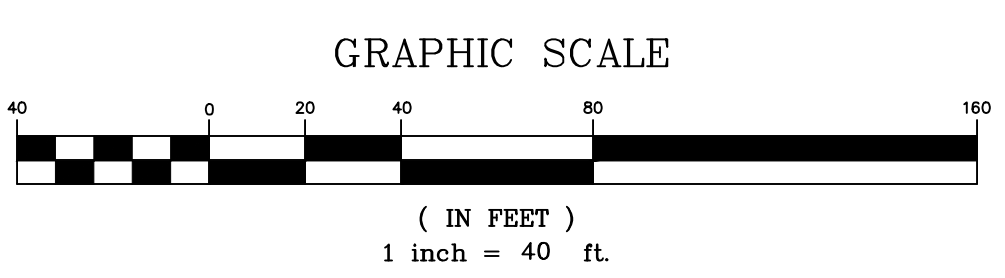
GENERAL INFORMATION





**WATER MAIN INSTALLATION NOTES:**

- PROJECT MUST BE BUILT TO CT WATER COMPANY SPECIFICATIONS.
- CLASS 52 DUCTILE IRON PIPE REQUIRED.
- COPPER AND/OR DUCTILE IRON SERVICE LATERAL MATERIAL REQUIRED.
- GATE VALVES OPEN LEFT.
- FIRE HYDRANTS OPEN LEFT, 5.5' BURY DEPTH. CWC WILL FURNISH MATERIALS INCLUDING TEE, VALVE, PIPE, HYDRANT AND ACCESSORIES. FIRE HYDRANTS TO BE INSTALLED WITH FACE OF HYDRANT 3'-FEET OFF FACE OF CURB. HYDRANTS ARE NOT TO BE INSTALLED IN SIDEWALKS. WHERE 3'-FEET CANNOT BE OBTAINED, INSTALL HYDRANT BEHIND SIDEWALK UNLESS OTHERWISE NOTED OR AS DIRECTED BY A CT WATER COMPANY PROJECT MANAGER. 10'-FEET HORIZONTAL SEPARATION REQUIRED BETWEEN HYDRANTS, SEWER MANHOLES AND STORM DRAINS. \*\*\*FIRE HYDRANTS ARE TO BE INSTALLED WITH FINISH GRADE AT THE BURY LINE CAST INTO THE LOWER BARREL. CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS OF WATER MAIN AND LATERAL ELEVATION TO ACHIEVE PROPER BURY DEPTH. ANY COSTS RELATED TO ADJUSTMENTS REQUIRED BY CT WATER COMPANY WILL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR AND/OR APPLICANT OF RECORD.
- ALL WATER MAIN PIPING AND APPURTENANCES MUST BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA ANSI-AWWA C105/A21.5-99(10). POLYETHYLENE ENCASEMENT SHALL BE V-BIO ENHANCED POLYETHYLENE ENCASEMENT STYLE ONLY AND CONSIST OF THREE (3) CO-EXTRUDED LAYERS OF LINEAR LOW-DENSITY POLYETHYLENE (LLDPE) FILM THAT ARE FUSED INTO ONE.
- MEGALUG RESTRAINTS REQUIRED ON ALL FITTINGS, BENDS, OFFSETS, TEES, GATE VALVES AND HYDRANTS.
- FIELD LOK (U.S. PIPE) OR SURE STOP 350 (MCWANE) RESTRAINING GASKETS ARE REQUIRED 2 PIPE JOINTS BEFORE AND AFTER EACH FITTING AND ON THE LAST 3 PIPE LENGTHS ON DEAD ENDS.
- THRUST BLOCKING IS REQUIRED ON ALL BENDS, TEES, OFFSETS, HYDRANTS AND DEAD ENDS.
- ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4'-FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
- 3'-FT MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER AND ANY OTHER UTILITY/UNDERGROUND STRUCTURE. 10'-FT MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER AND SEWER/SEPTIC ("SEWER") SEWER MUST BE SLEEVED WHERE WATER CROSSES SEWER IF WATER IS BELOW AND/OR WHEN 18" VERTICAL SEPARATION CANNOT BE ACHIEVED WHEN WATER IS ABOVE. 4'-FEET MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER MAIN AND DRAINAGE WHEN AT LIKE ELEVATIONS.
- WATER MAINS TO BE DEFLECTED UNDER ALL STORM DRAINS UNLESS OTHERWISE NOTED OR AS DIRECTED BY A CT WATER COMPANY PROJECT MANAGER. A VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
- ANGLE OF BENDS TO BE FIELD DETERMINED.
- MAXIMUM ALLOWABLE DEFLECTION PER FULL LENGTH PUSH-ON JOINT FOR 4" TO 12" IS FIVE (5) DEGREES AND THREE (3) DEGREES FOR 14" AND GREATER DUCTILE IRON PIPE.
- EXISTING SERVICES TO SITE THAT WILL NO LONGER BE USED MUST BE TERMINATED AT THE WATER MAIN BY EXPOSING AND SHUTTING OFF THE CORPORATION VALVE. THE LINE MUST BE SEVERED IMMEDIATELY AFTER THE CORPORATION VALVE. SAID SERVICES MUST BE SHOWN ON PLANS.
- WHERE A WATER SUPPLY WELL FOR ANY PURPOSE EXISTS OR IS APPROVED WITHIN THE LIMITS OF THIS PROJECT, ALL SERVICE LINES CONNECTED TO THE PUBLIC WATER SUPPLY REQUIRE A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RFP), AND MUST MEET THE REQUIREMENTS OF SEC. 19A-209A OF THE CONNECTICUT GENERAL STATUTES ("CGS"), AND SEC 19-13-B38A OF THE PUBLIC HEALTH CODE.
- WHERE AN AIR RELIEF IS REQUIRED, CWC WILL PERFORM TAP AND INSTALL WHILE THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION AND RESTORATION UNLESS OTHERWISE NOTED. LABOR AND MATERIALS FOR THE INSTALLATION(S) WILL BE CHARGED TO THE PROJECT.
- WHEN THE INSTALLATION OF UNDERGROUND INFRASTRUCTURE DEVIATES FROM THE CT WATER COMPANY APPROVED PLAN(S), THE APPLICANT, AT HIS/HER COST, WILL BE HELD LIABLE FOR THE RELOCATION OF INFRASTRUCTURE AS REQUIRED TO THE SATISFACTION OF THE CT WATER COMPANY. FAILURE TO CORRECT ANY DEVIATION DEEMED UNACCEPTABLE TO THE CT WATER COMPANY WILL RESULT IN LITIGATION.



**Reference Maps:**

- "Property To Be Acquired By Windsor Show Stables, Inc. Abbe Road East Windsor, Connecticut Scale: 1"=100' Date: 9-9-94 Rev. 9-15-94" Class A-2 by J.R. Russo & Associates
- "Connecticut State Highway Department Right of Way Map Town of East Windsor Hartford-Springfield Road-East Side From The South Windsor Town Line Northerly About 6,100.0 Feet U.S. 5 Scale: 1"=40' Date: April 30, 1930"
- "Subdivision Plan Property Owned By Joyce G. & Donald E. Stanton South Main Street & Abbe Road East Windsor, Connecticut Zone B-2 Scale: 1"=40' Date: September 25, 2000 Rev. 11-07-00" Class A-2 by Henry C. Cotton & Associates
- "Property of 215 South Main Associates Limited Partnership 215 South Main Street Town of East Windsor Scale: 1"=50' Date: Oct. 5, 1988 Rev. Nov. 11, 1988" by Malcolm S. Hinckley, L.S.
- "Agricultural Land Division Plan Prepared For WSS Properties, LLC Abbe Road, East Windsor, Connecticut Map 022 Block 22 Lot 050 Scale: 1"=50' Date: September 8, 2014

**Notes:**

- Horizontal datum based on Reference Map #1. Elevations based on N.A.V.D. 1988 Datum.
- All underground utility locations on this plan are approximate and may not be complete. Anyone using this information without verifying the locations does so at their own risk. No construction will be done on this site prior to utility mark out. "Call Before You Dig 1-800-922-4455".

**LEGEND**

□	EXISTING UTILITY HANDHOLE
○	EXISTING UTILITY POLE
⊙	EXISTING LIGHT POLE
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND UTILITIES
---	EXISTING UNDERGROUND ELECTRIC
○	EXISTING WATER GATE
○	EXISTING HYDRANT
○	PROPOSED HYDRANT
---	EXISTING WATER LINE
---	PROPOSED WATER LINE
---	EXISTING GAS GATE
---	EXISTING GAS LINE
□	EXISTING CATCH BASIN
□	EXISTING DRAINAGE MANHOLE
□	EXISTING STORM SEWER
□	EXISTING SANITARY MANHOLE
---	EXISTING SANITARY FORCE MAIN
---	EXISTING SANITARY SEWER
---	EXISTING SANITARY LATERAL
○	EXISTING SIGN
○	EXISTING IRON PIN (FOUND)
□	EXISTING MONUMENT (FOUND)
---	EXISTING SPOT GRADE
---	PROPOSED SPOT GRADE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	EXISTING TREELINE

**RUSSO**  
SURVEYORS • ENGINEERS  
SERVING CT & MA

J.R. Russo & Associates, LLC  
11 Shoham Rd East Windsor CT 06088 • CT 860.653.0599 • MA 403.780.1938  
www.russosurveyors.com • info@russosurveyors.com

**ConnecticutWater**  
**APPROVED**  
BY: S. MILES  
05/17/2023

REVISIONS	
By: LF/TAC	CHK: JEU

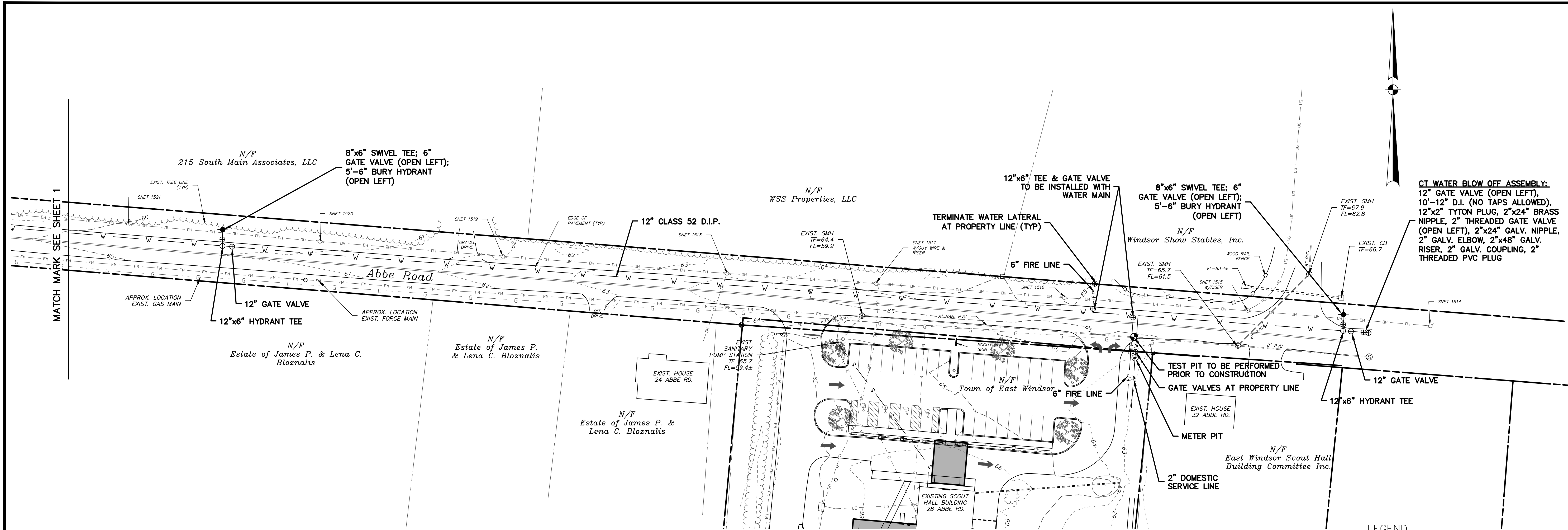
Prepared For  
**Town of East Windsor Public Works**  
Abbe Road  
East Windsor, Connecticut

<b>Water Main Plan</b>	
DATE	3-30-23
SCALE	1"=40'
JOB NUMBER	2022-064
SHEET	1 of 3

This survey and map has been prepared in accordance with Sections 20-300b-1 thru 20-300b-20 of the Regulations of Connecticut State Agencies - "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a Property Survey based on a Resurvey conforming to Horizontal Class A-2 & a Topographic Survey conforming to Class T-2.

This document and copies thereof are valid only if they bear the live signature and embossed seal of the designated professional. Unauthorized alterations render any declaration hereon null and void.





**CT WATER BLOW OFF ASSEMBLY:**  
12" GATE VALVE (OPEN LEFT),  
10"-12" D.I. (NO TAPS ALLOWED),  
12"x2" TYTON PLUG, 2"x24" BRASS  
NIPPLE, 2" THREADED GATE VALVE  
(OPEN LEFT), 2"x24" GALV. NIPPLE,  
2" GALV. ELBOW, 2"x48" GALV.  
RISER, 2" GALV. COUPLING, 2"  
THREADED PVC PLUG

**LEGEND**

- EXISTING UTILITY HANDHOLE
- EXISTING UTILITY POLE
- ☆ EXISTING LIGHT POLE
- OH — EXISTING OVERHEAD WIRES
- UG — EXISTING UNDERGROUND UTILITIES
- E — EXISTING UNDERGROUND ELECTRIC
- W — EXISTING WATER GATE
- H — EXISTING HYDRANT
- P — PROPOSED HYDRANT
- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- G — EXISTING GAS LINE
- C — EXISTING CATCH BASIN
- M — EXISTING DRAINAGE MANHOLE
- S — EXISTING STORM SEWER
- S — EXISTING SANITARY MANHOLE
- FM — EXISTING SANITARY FORCE MAIN
- S — EXISTING SANITARY SEWER
- S — EXISTING SANITARY LATERAL
- S — EXISTING SIGN
- P — EXISTING IRON PIN (FOUND)
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- S — EXISTING SPOT GRADE
- S — PROPOSED SPOT GRADE
- S — EXISTING CONTOUR
- S — PROPOSED CONTOUR
- S — EXISTING TREELINE

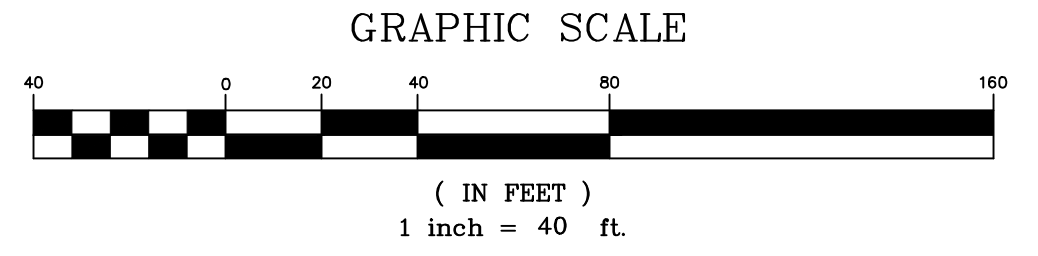
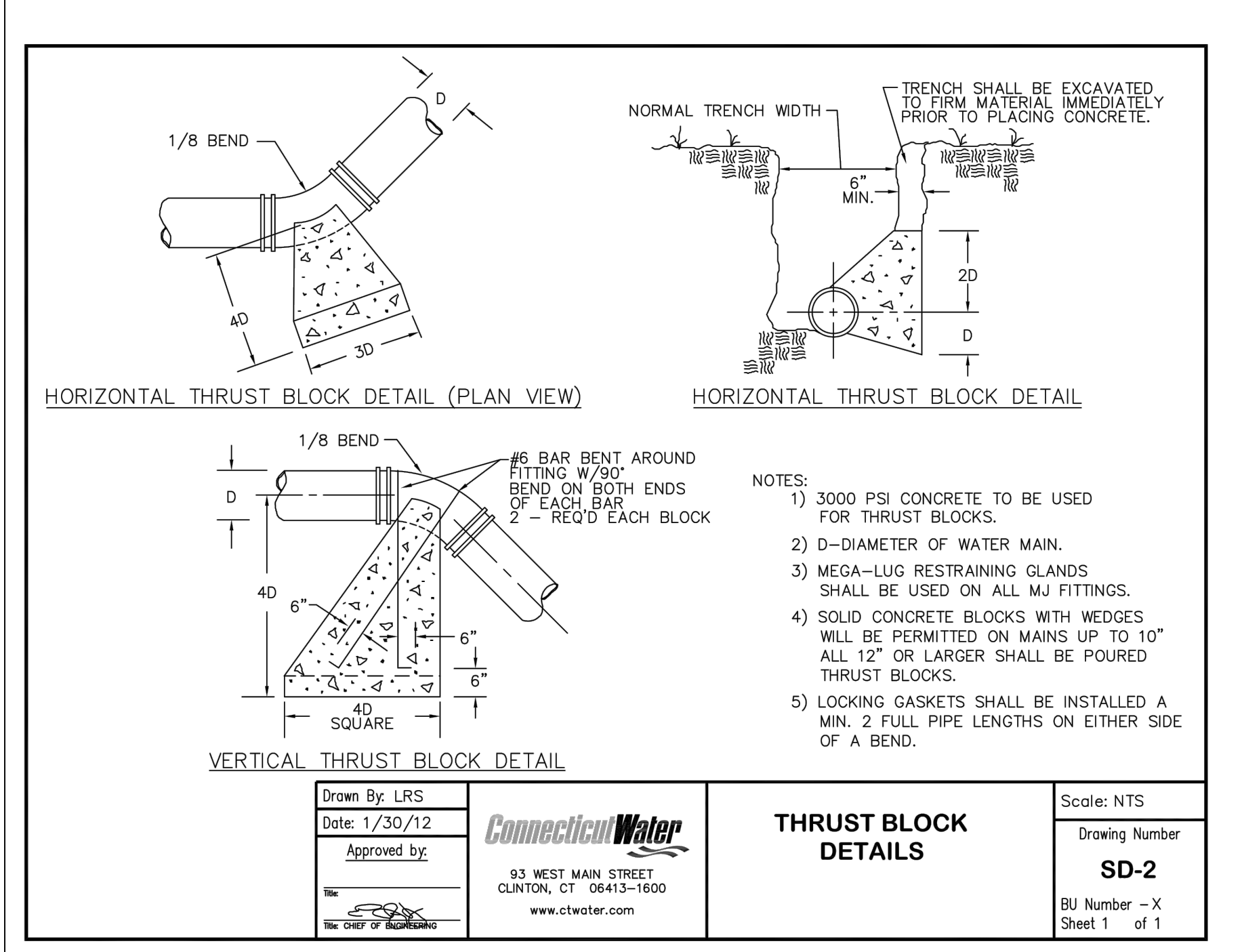
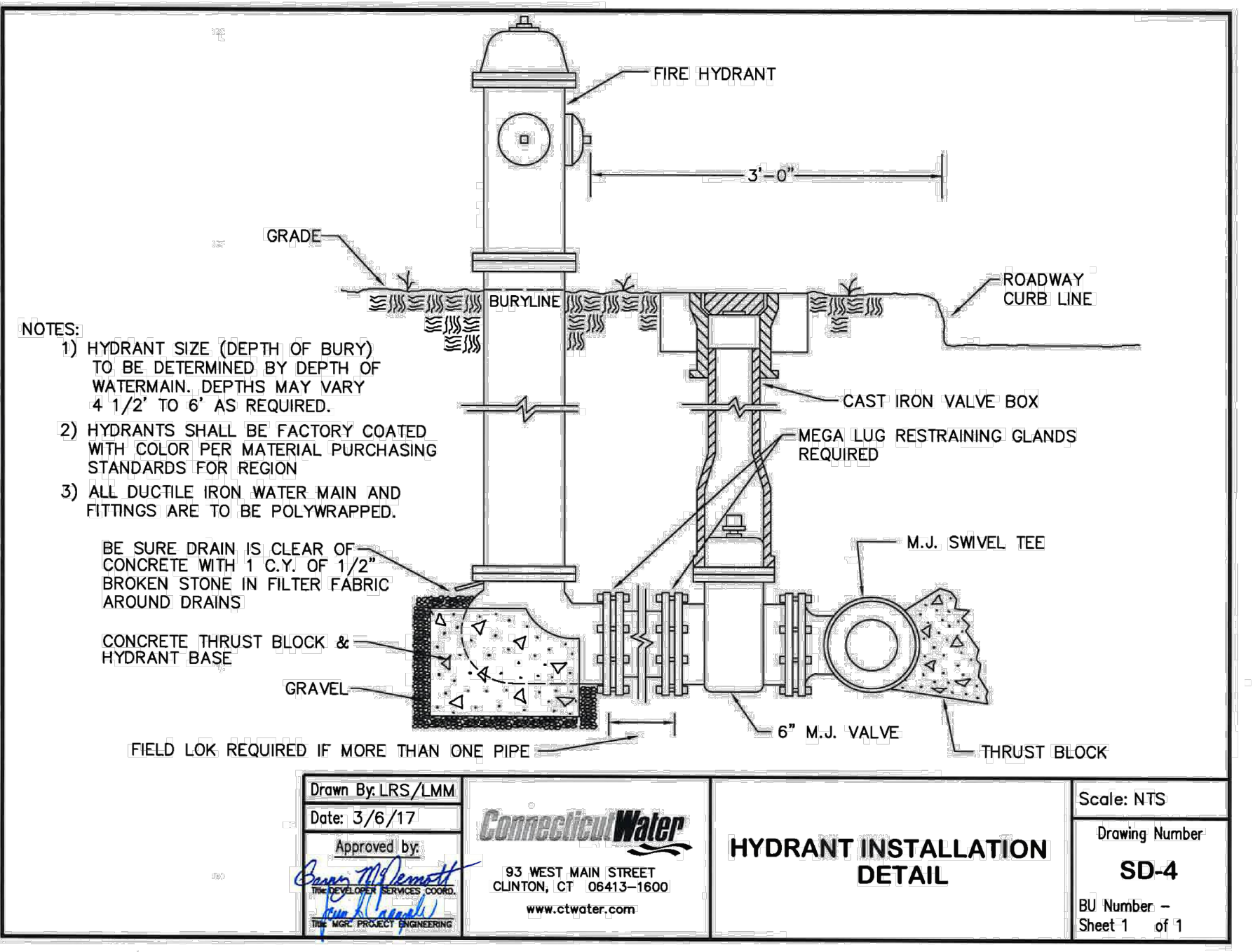
**REVISIONS**

By: LF/TAC	CHK: JEU
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Prepared For  
**Town of East Windsor Public Works**  
 Abbe Road  
 East Windsor, Connecticut

**Water Main Plan**

DATE	3-30-23
SCALE	1"=40'
JOB NUMBER	2022-064
SHEET	2 of 3

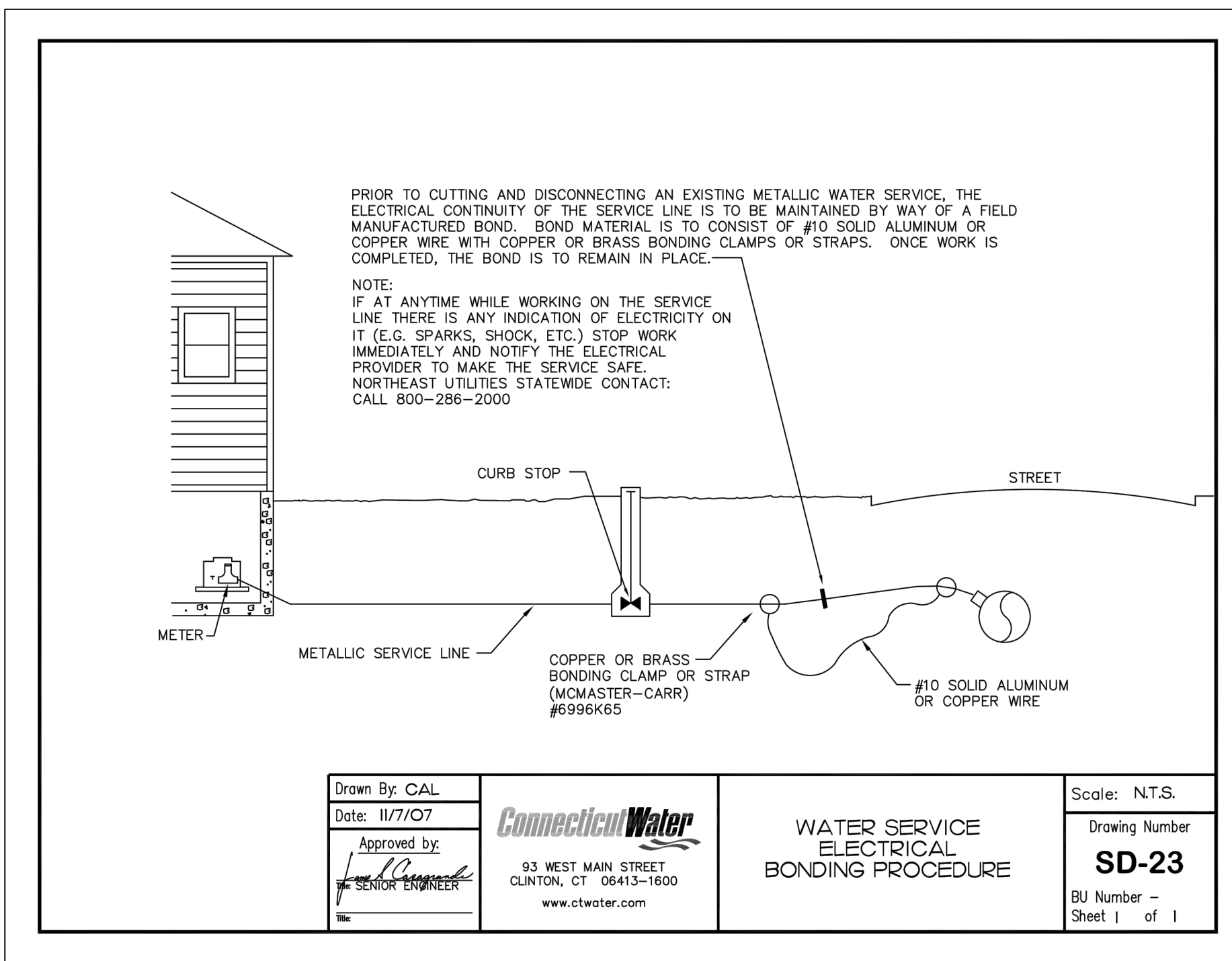
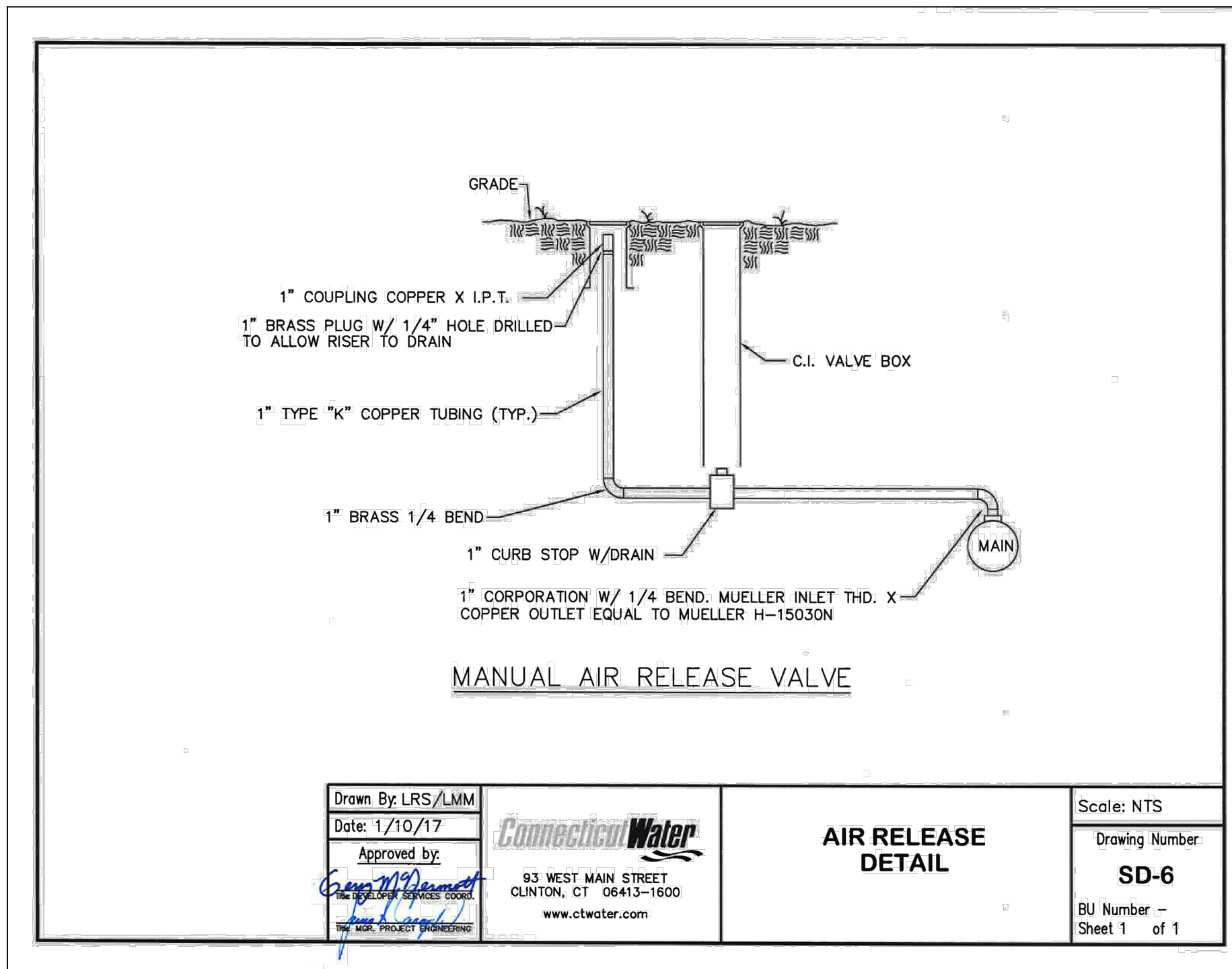
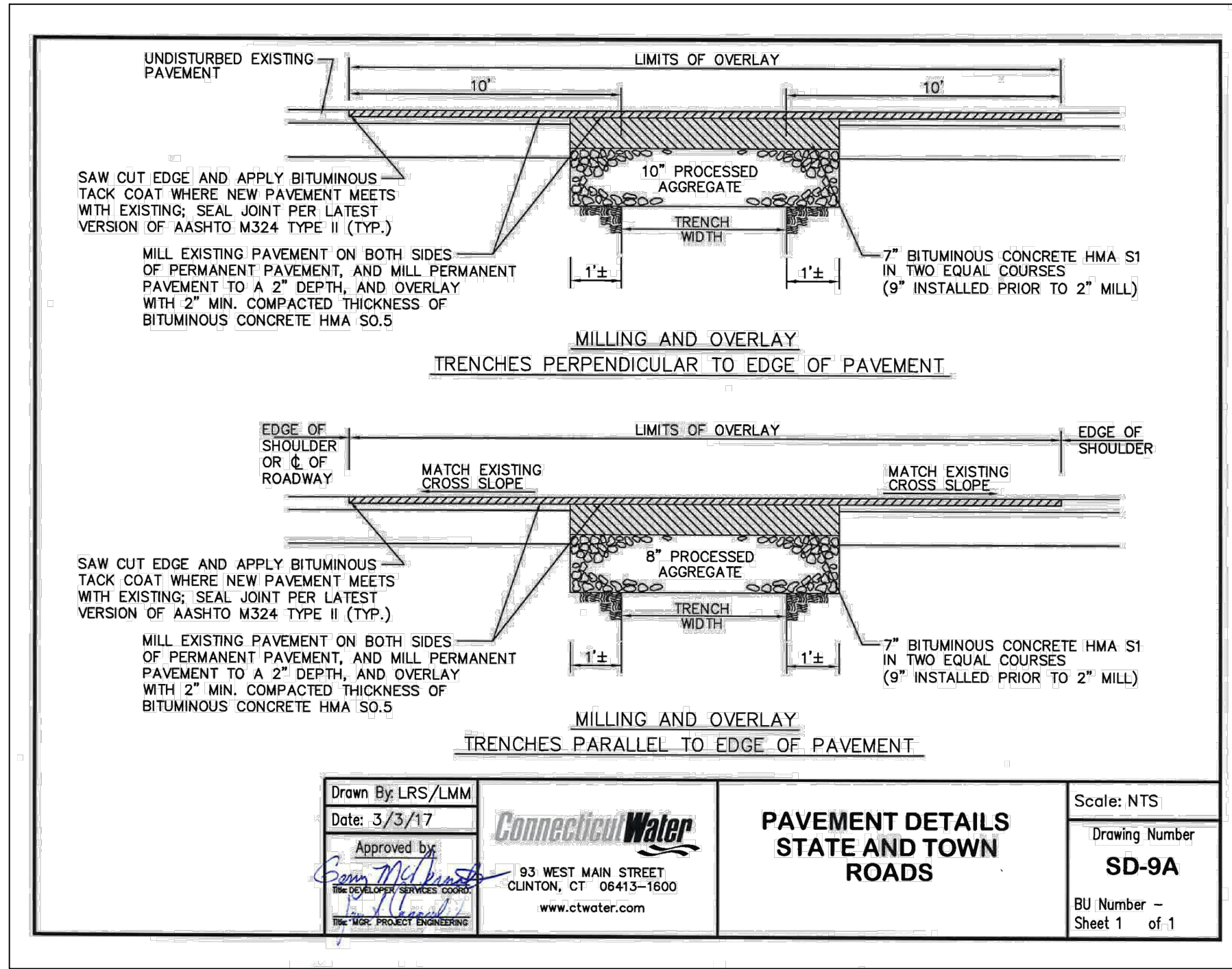
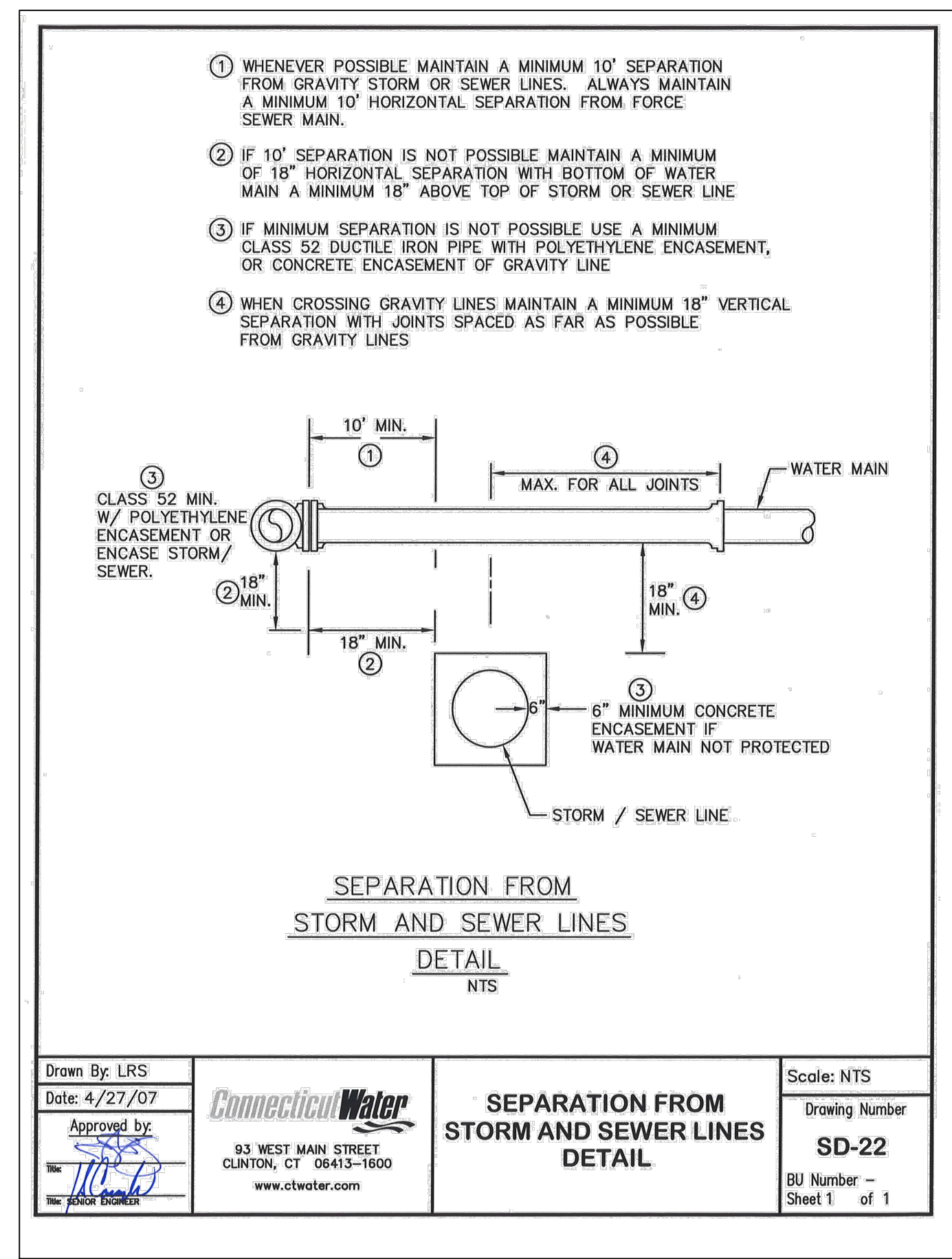
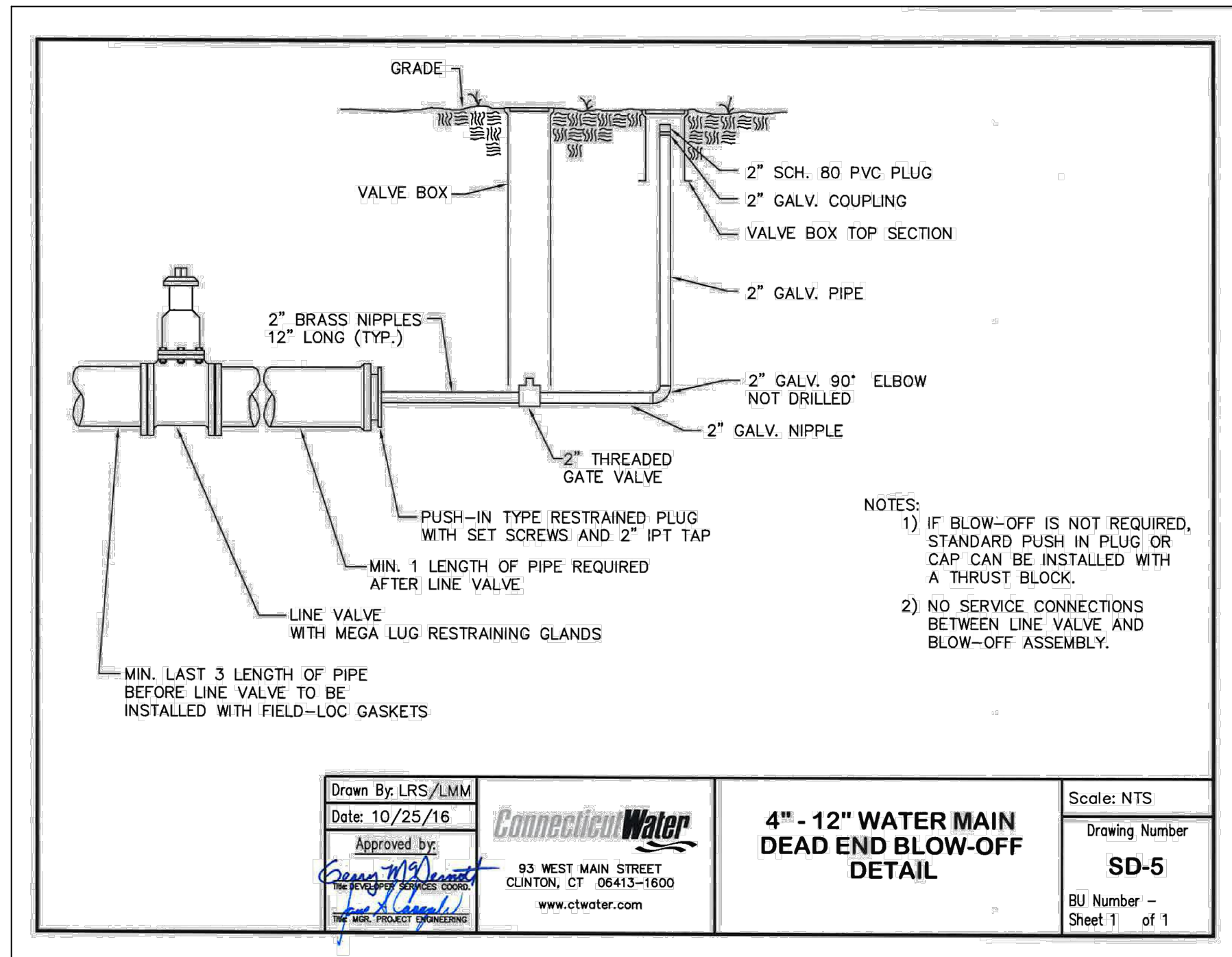


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This document and copies thereof are valid only if they bear the live signature and embossed seal of the designated professional. Unauthorized alterations render any declaration hereon null and void.

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.





REVISIONS	
By: LF/TAC	CHK: JEU

Prepared For  
**Town of East Windsor Public Works**  
Abbe Road  
East Windsor, Connecticut

<b>Detail Sheet</b>
DATE <b>3-30-23</b>
SCALE <b>AS NOTED</b>
JOB NUMBER <b>2022-064</b>
SHEET <b>3 of 3</b>

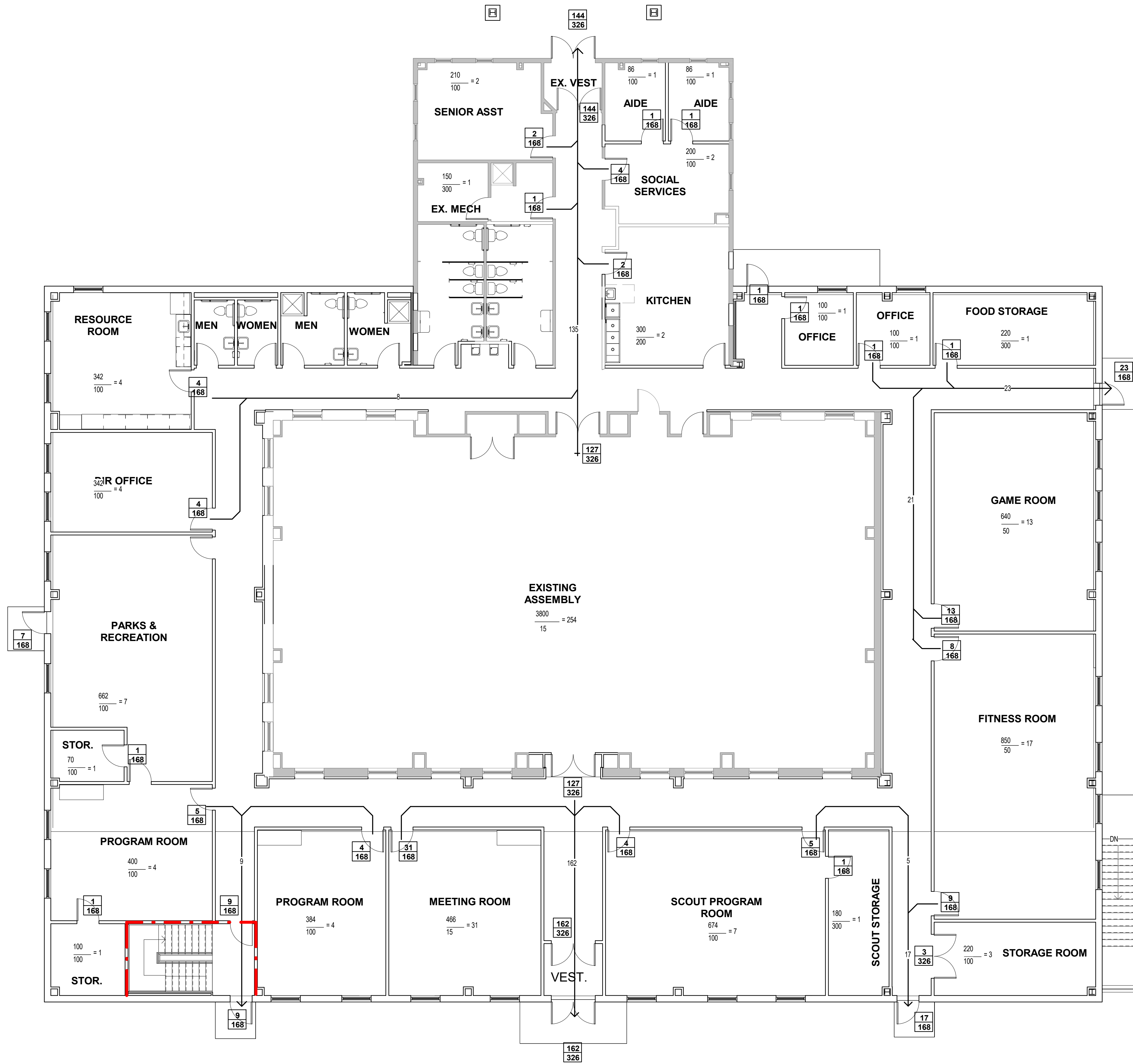


This document contains confidential information, is an instrument of service and the property of the Architect. It shall not be used on other projects or for the extension of this project without the Architect's written approval.

All products, fixtures, and equipment shall be installed in accordance with manufacturers' installation instructions and all applicable codes.

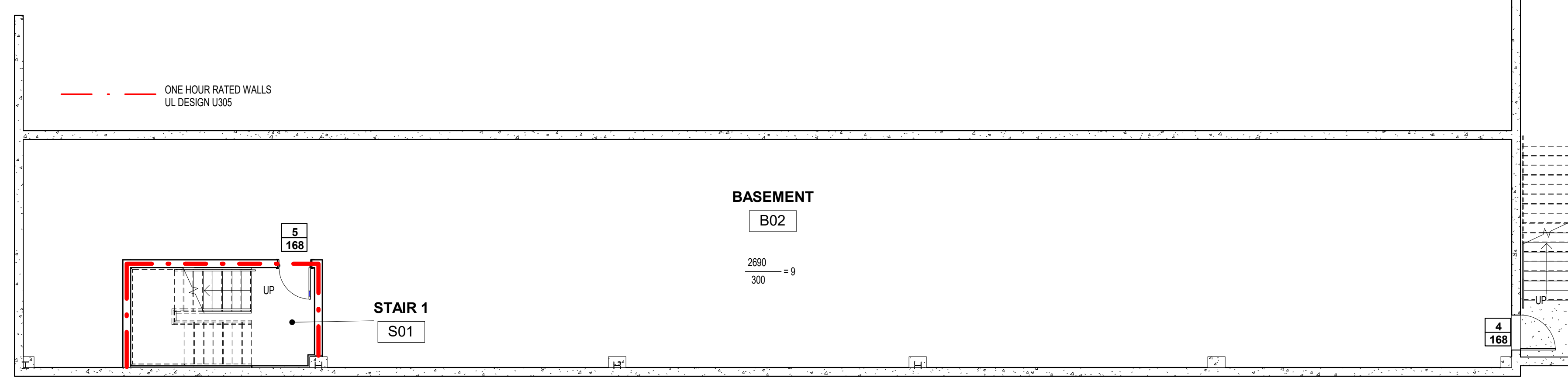
All dimensions, materials, and specifications are to be verified by the Contractor prior to the commencement of work.

The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.



**GROUND FLOOR EGRESS PLAN**

SCALE 3/32" = 1'-0"  
PLAN  
NORTH



**E00 BASEMENT FLOOR EGRESS PLAN**

② 1/8" = 1'-0"

**CODES USED**

- CT 2022 CSBC USES THE FOLLOWING CODES:
- 2021 International Building Code (IBC) by ICC
- 2021 International Existing Building Code (IEBC) by ICC
- 2021 International Energy Conservation Code (IECC) by ICC
- 2021 International Mechanical Code (IMC) by ICC
- 2021 International Plumbing Code (IPC) by ICC
- 2020 NFPA 70 National Electrical Code (NEC) by NFPA
- 2017 ICC A117.1 Accessible and Usable Buildings and Facilities by ICC
- 2021 International Fire Code (IFC) by ICC
- 2021 NFPA 01 - Life Safety Code by the NFPA
- 2021 NFPA 1 - Fire Code by the NFPA

**CODE INFORMATION**

**1. USE GROUP CLASSIFICATION (CHAPTER 3)**

PRIMARY USE GROUP ASSEMBLY - A3  
SECONDARY USE GROUP BUSINESS - B  
NON-SEPARATED USES

**2. CONSTRUCTION TYPE (CHAPTER 6)**

CONSTRUCTION TYPE 2B UNPROTECTED  
NEW ONE STORY ADDITION W/ BASEMENT  
BUILDING IS SPRINKLERED

**3. BUILDING AREA (CHAPTER 5)**

FRONTAGE INCREASE:  $F = [F \cdot (P - 0.25)] / 30$   
 $F = 450$  ft  
 $P = 450$  ft  
 $W = 30$  ft

FRONTAGE INCREASE:  $[450 / 450 \cdot 0.25] / 30 = F = 75\%$   
 SPRINKLER INCREASE:  $I_s = 200\%$

ALLOWABLE BUILDING AREA TABLE T506.2  
 ALLOWABLE ASSEMBLY - A3  $A_a = [A] + [A] \times I_s$   
 $[38,000 + (9,500 \times 75\%)] = A_i$  GSF  
 $[38,000 + 7,125] = 45,125$  GSF  
 $A_i = 45,125$  GSF

ALLOWABLE BUILDING AREA TABLE T506.2  
 ALLOWABLE BUSINESS B  $A_b = [A] + [A] \times I_s$   
 $[92,000 + (23,000 \times 75\%)] = A_i$  GSF  
 $[92,000 + 17,250] = 109,250$  GSF  
 $A_i = 109,250$  GSF

$11,200 + 2,400 = 13,600$  sq ft  
 $109,250 + 45,125 = 154,375$  sq ft  
 $13,600 \times 1.1 = 14,960$  sq ft  
 $154,375 > 14,960$  OK

**4. BUILDING HEIGHT (CHAPTER 5)**

ALLOWABLE HEIGHT (FEET) 2 STORIES  
 ACTUAL HEIGHT 1 STORY / 30 FT.

**5. MEANS OF EGRESS (CHAPTER 10)**

OCCUPANT LOAD (INSIDE EXTERIOR WALLS)

ASSEMBLY A3	115	3,800/15 = 254
BUSINESS B	1/100	11,200/100 = 113

OCCUPANT DESIGN LOAD: 367

REQUIRED NUMBER OF EXITS	REQUIRED	PROVIDED
ASSEMBLY A3	254/168 = 2	2
BUSINESS B	113/168 = 2	4
TOTAL NO. EXITS PROVIDED		6

EXIT CAPACITY 36" W. DOOR = 168 DOOR  
 TOTAL EXIT CAPACITY 36" W. DOOR = 6 DOORS x 168 = 1,008 OCCUPANTS

**6. ACCESSIBILITY (CHAPTER 11)**

ACCESSIBILITY: BUILDING IS ACCESSIBLE

**7. PLUMBING FIXTURES (CHAPTER 29)**

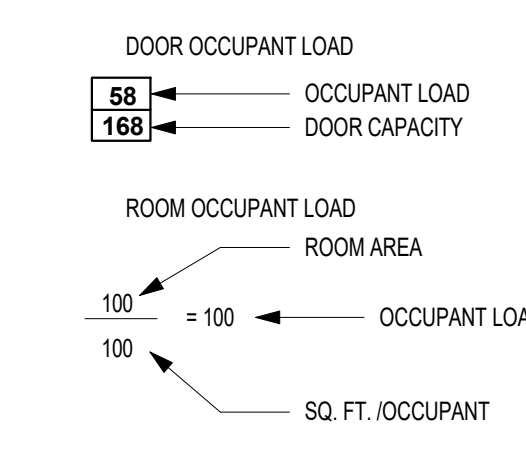
PLUMBING FIXTURE COUNT	WATER CLOSET	LAVATORIES	DF	SS
ASSEMBLY A3	1/125	1/60	1/200	1/500
BUSINESS B	1/25	1/25	1/40	1/40

REQUIRED PLUMBING FIXTURES

USE	WATER CLOSETS	LAVATORIES	DRINKING SERVICE	FOUNTAINS	SINK
ASSEMBLY A3	M 127/125 = 2	W 127/60 = 2	M 127/200 = 2		
BUSINESS B	M 57/25 = 2	W 57/25 = 2	M 57/40 = 2		
			W 57/25 = 3		
			M 57/40 = 2		
TOTAL REQUIRED M&W S	4	1	1		
TOTAL PROVIDED M&W S	4	1	1		

**8. TRAVEL DISTANCE (CHAPTER 10)**

MAXIMUM TRAVEL DISTANCE FOR EACH USE GROUP  
 ASSEMBLY A3: 250 FT WITH SPRINKLERS  
 BUSINESS B: 300 FT WITH SPRINKLERS  
 75FT COMMON PATH OF TRAVEL



**PROJECT NAME:**  
Alterations & Additions  
East Windsor Community  
Center

**PROJECT ADDRESS:**  
28 Abbe Road  
East Windsor, CT 06088

**PROJ NO.:**  
2021.33

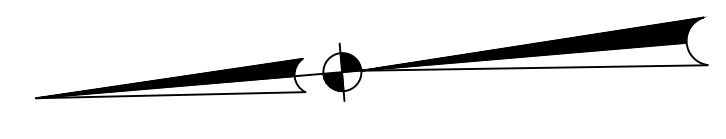
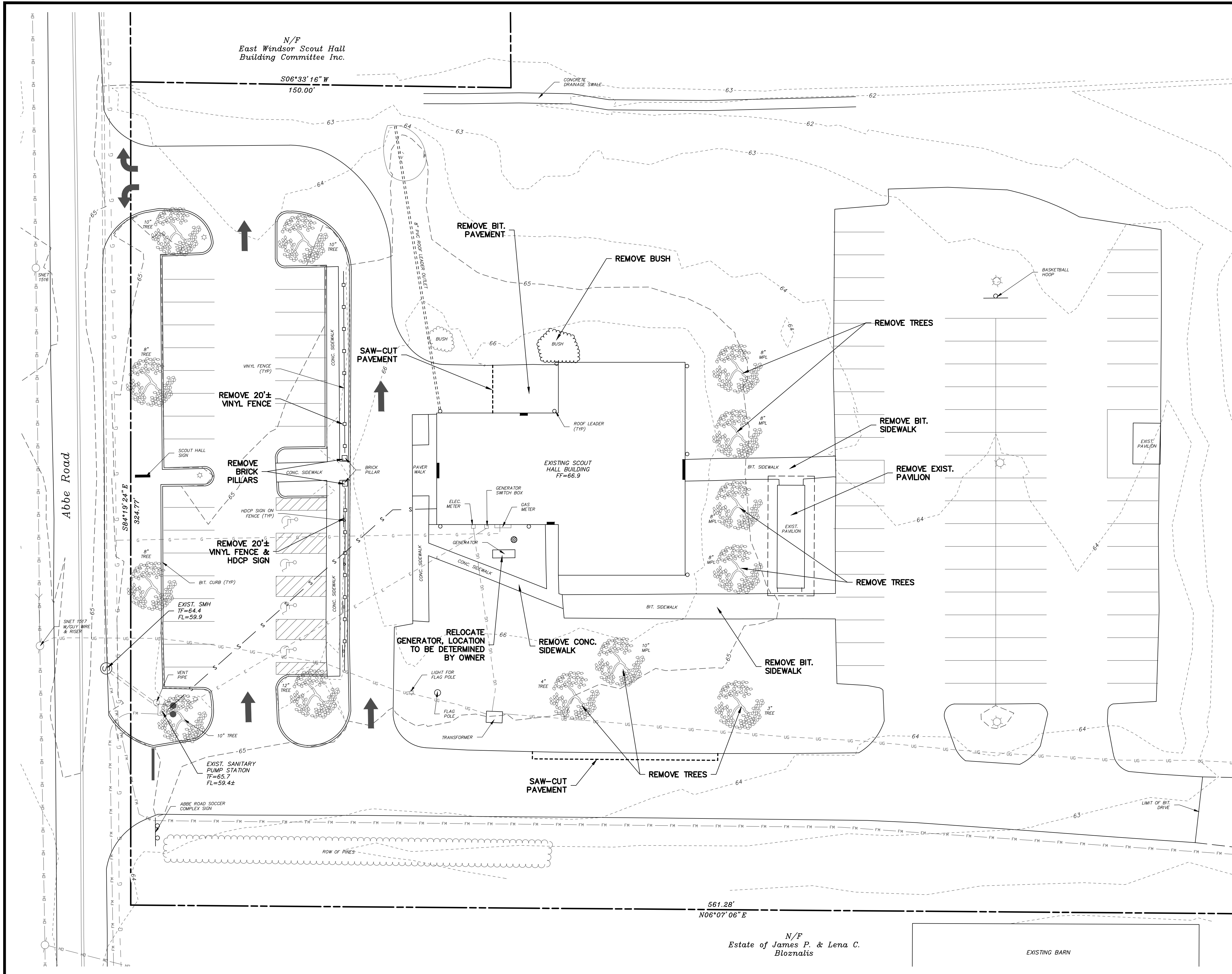
**ISSUE DATE:**  
9/20/2022

**REVISION DATE:**

**DRAWING**  
**CODE SHEET**  
**AND EGRESS**  
**PLAN**



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**Reference Map:**

1. "Property To Be Acquired By Windsor Show Stables, Inc. Abbe Road East Windsor, Connecticut Scale: 1"=100' Date: 9-9-94 Rev. 9-15-94" Class A-2 by J.R. Russo & Associates

**Notes:**

1. Horizontal datum based on Reference Map #1. Elevations based on N.A.V.D. 1988 Datum.
2. All underground utility locations on this plan are approximate and may not be complete. Anyone using this information without verifying the locations does so at their own risk. No construction will be done on this site prior to utility mark out. "Call Before You Dig 1-800-922-4455".
3. Foundation dimensions as shown on this plan are for site design purposes only. Foundation Contractor will use Architectural plans for layout and construction of the building(s) foundation.

**LEGEND**

- EXISTING UTILITY HANDHOLE
- EXISTING UTILITY POLE
- ⊙ EXISTING LIGHT POLE
- UG--- EXISTING UNDERGROUND UTILITIES
- E- EXISTING UNDERGROUND ELECTRIC
- ⊕ EXISTING WATER GATE
- ⊖ EXISTING HYDRANT
- W--- EXISTING WATER LINE
- ⊕ EXISTING GAS GATE
- G--- EXISTING GAS LINE
- EXISTING CATCH BASIN
- ===== EXISTING STORM SEWER
- ⊙ EXISTING SANITARY MANHOLE
- S EXISTING SANITARY LATERAL
- FM EXISTING FORCE MAIN
- 1.35x5--- EXISTING SIGN
- 1.36--- EXISTING SPOT GRADE
- 1.36--- EXISTING CONTOUR



J.R. Russo & Associates, LLC  
SURVEYORS-ENGINEERS  
SERVING CT & MA  
11Shelham Rd East Windsor CT 06088 • CT 860.653.0599 • MA 403.785.1938  
www.russio.com • info@russio.com

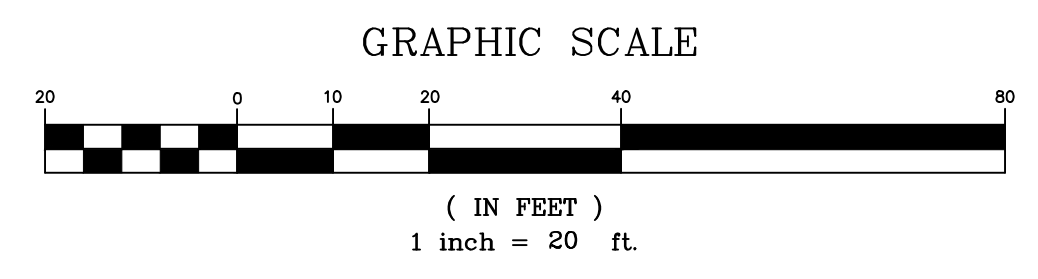
**REVISIONS**

BY: LF/TAC    CHK: JEU

Community Center  
Prepared For  
Town of East Windsor Public Works  
28 Abbe Road  
East Windsor, Connecticut

**Existing Conditions Demolition Plan**

DATE	10-3-22
SCALE	1"=20'
JOB NUMBER	2022-064
SHEET	X of X



This survey and map has been prepared in accordance with Sections 20-300b-1 thru 20-300b-20 of the Regulations of Connecticut State Agencies - "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a Property Survey based on a Resurvey conforming to Horizontal Class A-2 & a Topographic Survey conforming to Class T-2.

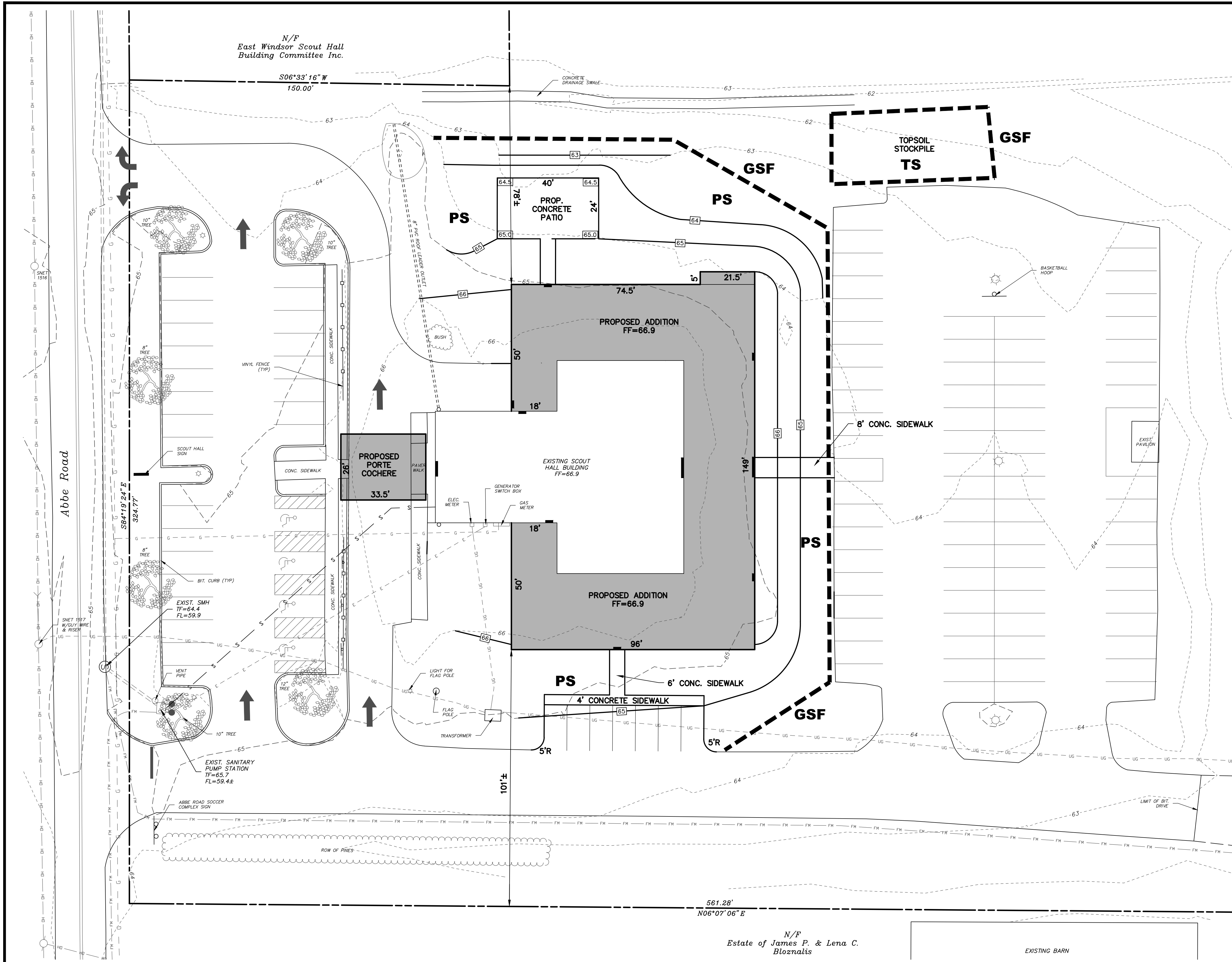
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This document and copies thereof are valid only if they bear the live signature and embossed seal of the designated professional. Unauthorized alterations render any declaration hereon null and void.

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



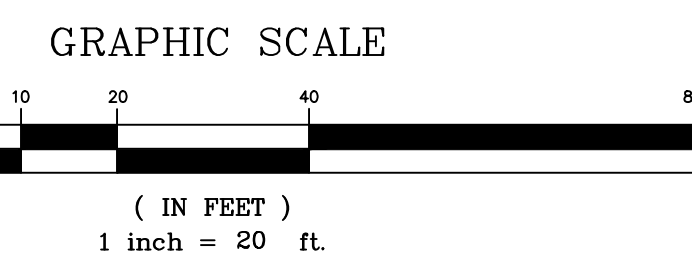
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N/F  
East Windsor Scout Hall  
Building Committee Inc.

S06°33'16" W  
150.00'

Abbe Road



**EROSION & SEDIMENT CONTROL PLAN KEY**

**PS** PERMANENT SEEDING  
**TS** TEMPORARY SEEDING  
**GSF** GEOTEXTILE SILT FENCE

This survey and map has been prepared in accordance with Sections 20-300b-1 thru 20-300b-20 of the Regulations of Connecticut State Agencies - "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a Property Survey based on a Resurvey conforming to Horizontal Class A-2 & a Topographic Survey conforming to Class T-2.

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- Reference Map:**
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- Notes:**
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**LEGEND**

□	EXISTING UTILITY HANDHOLE
○	EXISTING UTILITY POLE
☆	EXISTING LIGHT POLE
---	EXISTING UNDERGROUND UTILITIES
---	EXISTING UNDERGROUND ELECTRIC
○	EXISTING WATER GATE
○	EXISTING HYDRANT
---	EXISTING WATER LINE
○	EXISTING GAS GATE
---	EXISTING GAS LINE
□	EXISTING CATCH BASIN
---	EXISTING STORM SEWER
○	EXISTING SANITARY MANHOLE
---	EXISTING SANITARY LATERAL
---	EXISTING FORCE MAIN
---	EXISTING SIGN
---	EXISTING SPOT GRADE
---	EXISTING CONTOUR
---	PROPOSED SPOT GRADE
---	PROPOSED CONTOUR
---	STAKED HAYBALES OR SILT FENCE



**REVISIONS**

BY: LF/TAC	CHK: JEU
------------	----------

Community Center  
 Prepared For  
 Town of East Windsor Public Works  
 28 Abbe Road  
 East Windsor, Connecticut

**Site Plan**

DATE	10-3-22
SCALE	1"=20'
JOB NUMBER	2022-064
SHEET	X of X

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.





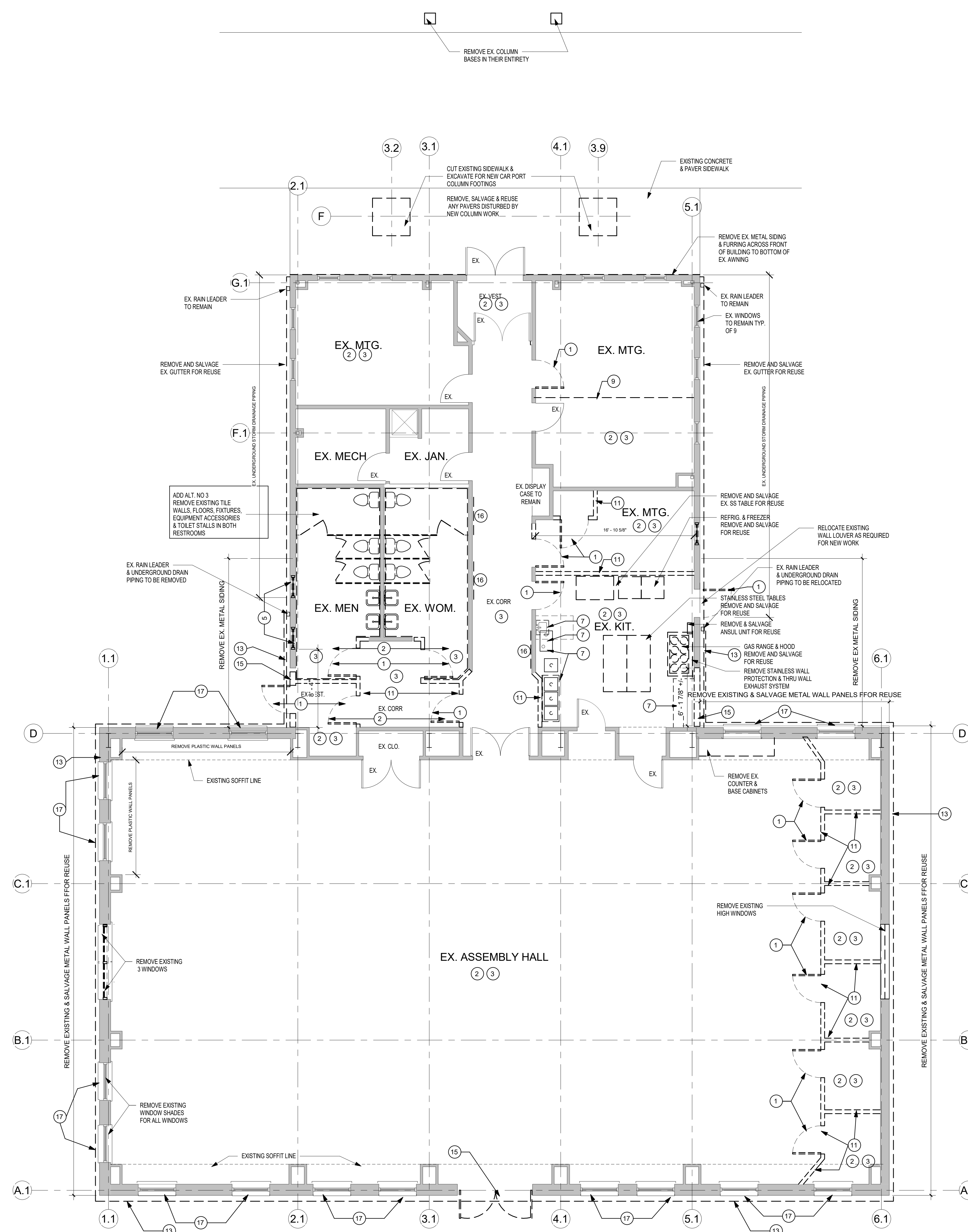


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The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.



**DEMOLITION NOTES**

1. CONTRACTOR TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO START OF DEMOLITION WORK. DOCUMENTS ARE BASED ON FIELD MEASUREMENTS, PHOTOGRAPHS, AND VISUAL INSPECTION. ACTUAL CONDITIONS MAY VARY FROM THOSE SHOWN. DOCUMENT & REPORT ANY VARIATIONS OR DISCREPANCIES TO ARCHITECT & OWNER FOR RESOLUTION PRIOR TO START OF DEMOLITION WORK. FAILURE TO REPORT DISCREPANCIES WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETE COORDINATION OF ALL ASPECTS OF THE WORK.
2. DEMOLITION WORK INDICATED IN DOCUMENTS IS A GENERAL REPRESENTATION OF PROJECT SCOPE, AND IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL SELECTIVE DEMOLITION WORK REQUIRED. ALL INCIDENTAL WORK REQUIRED TO ACCOMPLISH THE WORK IS PART OF THE CONTRACT WORK, REGARDLESS OF WHETHER IT IS SHOWN IN THE DOCUMENTS.
3. NUMBERED DEMOLITION KEYNOTES INDICATE TYPE OF WORK TO BE PERFORMED WITHIN EACH AREA WHERE KEYNOTE SYMBOL APPEARS. CONTRACTOR TO VERIFY EXTENT OF ALL WORK IN FIELD AND BRING ANY QUESTIONS ON SCOPE TO ATTENTION OF ARCHITECT AND OWNER FOR RESOLUTION.
4. PROTECT ALL CONSTRUCTION TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR/REPLACE CONSTRUCTION TO REMAIN DAMAGED DURING DEMOLITION TO MATCH THE QUALITY OF THE NEW WORK.
5. REFER MEP AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES ON MEP AND FIRE PROTECTION EQUIPMENT.
6. ALL EXISTING FIRE-RATED PROTECTION SYSTEMS CURRENTLY IN PLACE AND RELATED TO THE STRUCTURAL FRAME, BEAMS, COLUMNS AND METAL DECKING SYSTEMS ARE TO REMAIN INTACT WHERE POSSIBLE AND THOSE PORTIONS OF THESE PROTECTION SYSTEMS THAT ARE REMOVED SHALL BE QUANTIFIED IN THE FIELD FOR REPLACEMENT.
7. REMOVE & SALVAGE EXISTING VERTICAL METAL SIDING AND RAIN LEADERS FOR REUSE. TYPICAL AROUND BUILDING AT NEW ADDITION.
8. REMOVE EXISTING PAINTED 2X WOOD CHAIRRAILS, PICTURE RAILS & DECORATIVE TRIM THROUGHOUT EXISTING ROOMS.

**NUMBERED DEMOLITION NOTES**

1. REMOVE EXISTING DOOR, FRAME, HARDWARE AND THRESHOLDS WHERE APPLICABLE.
2. REMOVE EXISTING FLOOR FINISH AND WALL BASE.
3. REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY.
4. REMOVE EXISTING PLASTIC WALL PANELS.
5. REMOVE EXISTING WINDOWS IN THEIR ENTIRETY. LEAVE WINDOW SILLS TO REMAIN.
6. REMOVE A PORTION OF THE EXISTING CONCRETE SLAB AS REQUIRED TO RECEIVE NEW WORK. REFER TO MEP & STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. REMOVE & SALVAGE EXISTING KITCHEN PLUMBING FIXTURES, EQUIPMENT, GREASE TRAP, CASEWORK, AND RELATED SYSTEMS. SALVAGE GAS RANGE & HOOD FOR REUSE.
8. REMOVE EXISTING INTERIOR AND EXTERIOR LIGHT FIXTURES AND ALL RELATED WIRING, SWITCHES AND EQUIPMENT. SEE MEP DRAWINGS FOR ADDITIONAL FORMATION.
9. REMOVE EXISTING FOLDING PARTITION IN ITS ENTIRETY.
10. SAW CUT AND REMOVE PORTION OF EXISTING EXTERIOR CONCRETE WALKS TO RECEIVE NEW WORK.
11. REMOVE EXISTING INTERIOR GYPSUM BOARD AND COLD-FORMED METAL STUD PARTITIONS. WALL SYSTEMS UNLESS INDICATED OTHERWISE.
12. NEW MECHANICAL, PLUMBING & ELECTRICAL ROOF PENETRATIONS VERIFY LOCATIONS W/MEP DWGS.
13. REMOVE EXISTING UNDERGROUND STORM DRAIN PIPING INCLUDING RAIN LEADERS AND CONNECTING PIPING.
14. REMOVE PORTION OF EXISTING EXTERIOR WALLS IN AREAS TO RECEIVE NEW WORK.
15. REMOVE EXISTING DOORS, FRAME & TRANSOM.
16. REMOVE EXISTING BULLETIN BOARDS & SALVAGE FOR REUSE.
17. REMOVE EXISTING MASONRY WINDOW SILLS.

**D01 DEMOLITION PLAN**  
3/16" = 1'-0"

- DEMOLITION LEGEND**
- EXISTING WALL AND PARTITION CONSTRUCTION TO REMAIN
  - - - EXISTING CONSTRUCTION TO BE REMOVED

**PROJECT NAME:**  
Alterations & Additions  
East Windsor Community  
Center

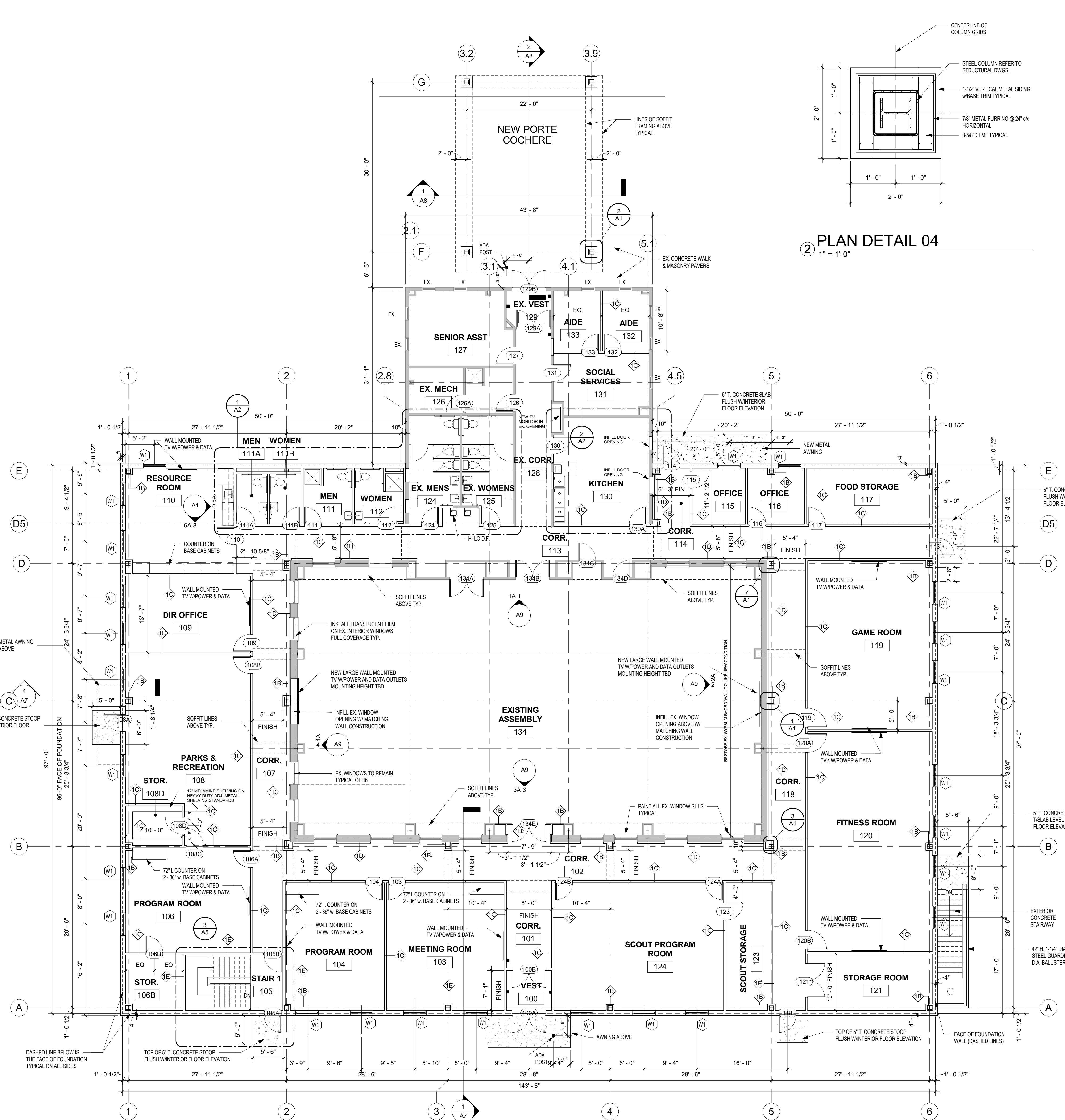
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**PROJ NO:**  
2021.33  
**ISSUE DATE:**  
9/20/2022  
**REVISION DATE:**

**DRAWING**  
**DEMOLITION PLAN**

**AD1**





**1 GROUND FLOOR PLAN**  
 1/8" = 1'-0"

**PLAN LEGEND**

- EXISTING WALL AND PARTITION CONSTRUCTION TO REMAIN
- NEW WALL AND PARTITION CONSTRUCTION
- NEW WIRELESS PUSH BUTTON ADA ACCESS CONTROL

**PARTITION TYPES**

- 1A ONE HOUR PARTITION - U.L. DESIGN NO. U305  
 3/8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE TO UNDERSIDE OF FLOOR/ROOF DECK. FIRE SEAL TOP OF PARTITIONS & ANY OPENINGS.
- 1B 3/8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" GYPSUM BOARD, ONE SIDE FULL HEIGHT.
- 1C 3/8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" MOISTURE RESISTANT GYPSUM BOARD ONE SIDE ON RESTROOM SIDE FULL HEIGHT & ONE LAYER OF REGULAR 5/8" GYPSUM BOARD FULL HEIGHT.
- 1D 3/8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" MOISTURE RESISTANT GYPSUM BOARD ONE SIDE FULL HEIGHT.
- 1E 3/8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" STANDARD GYPSUM BOARD EACH SIDE FULL HEIGHT.
- 1H ONE HOUR PARTITION - U.L. DESIGN NO. U305  
 8" 22 GA. CFMF @ 16" o.c. W/ ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE TO UNDERSIDE OF FLOOR/ROOF DECK. FIRE SEAL TOP OF PARTITIONS & ANY OPENINGS.

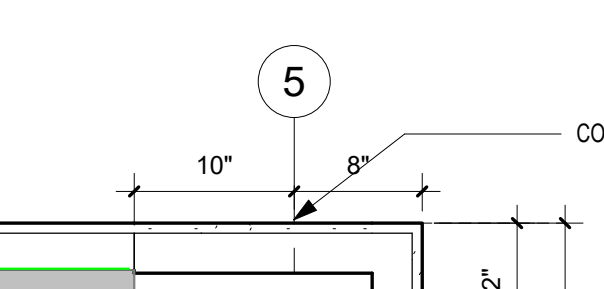
**2 PLAN DETAIL 04**  
 1" = 1'-0"



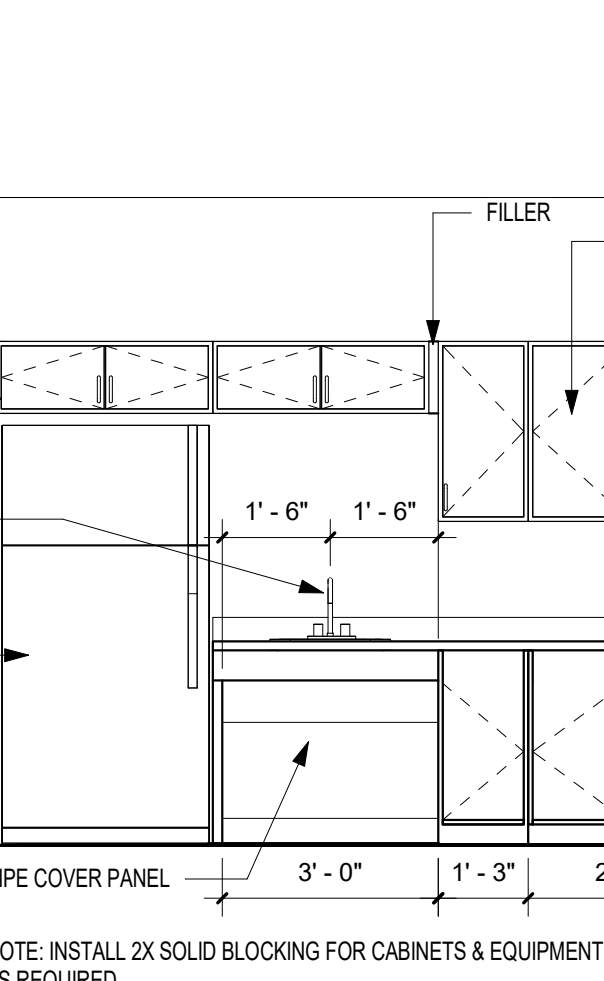
**3 PLAN DETAIL 01**  
 1" = 1'-0"



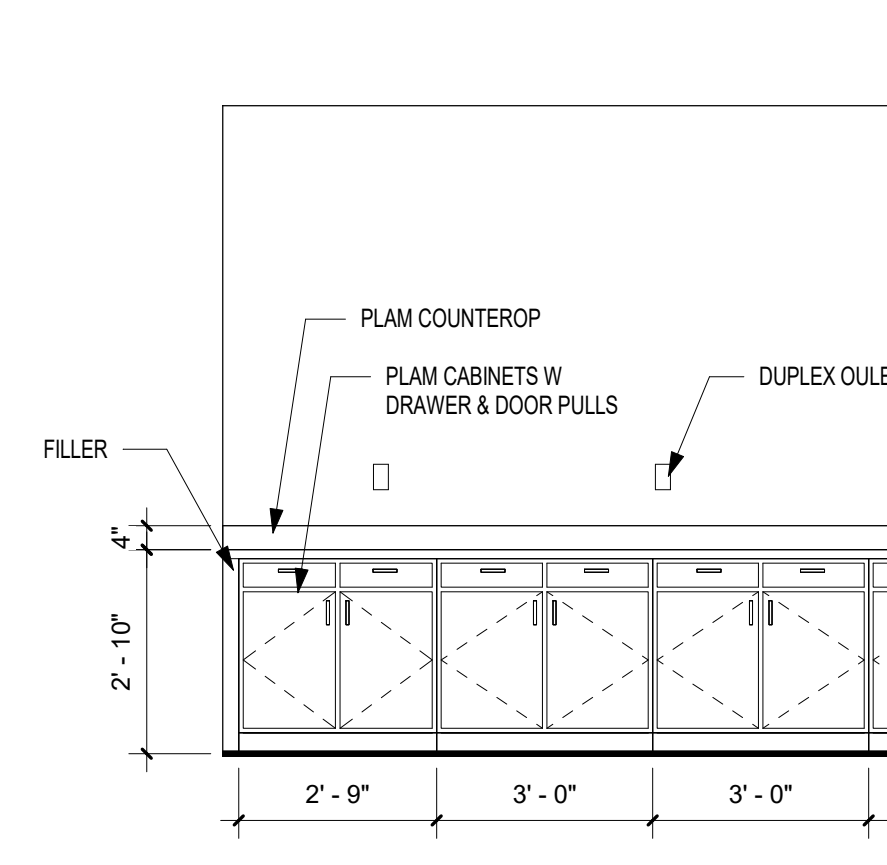
**4 PLAN DETAIL 02**  
 1" = 1'-0"



**7 PLAN DETAIL 03**  
 1" = 1'-0"



**6 RESOURCE ROOM EAST ELEVATION**  
 3/8" = 1'-0"



**8 RESOURCE ROOM SOUTH ELEVATION**  
 3/8" = 1'-0"



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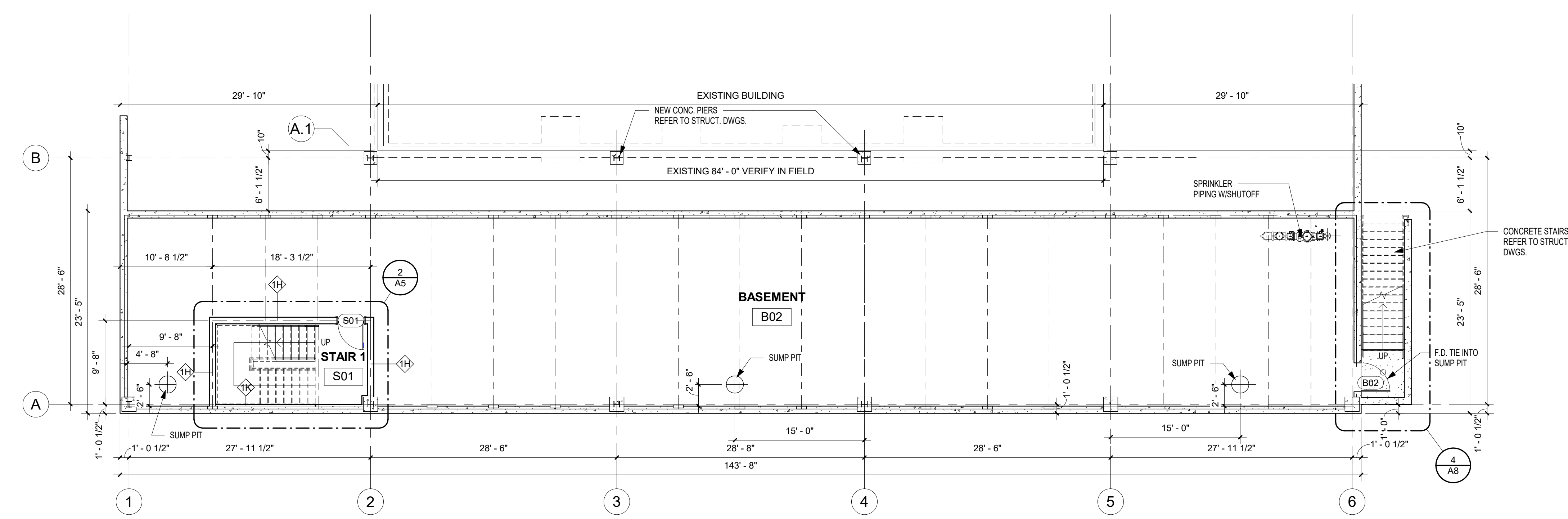


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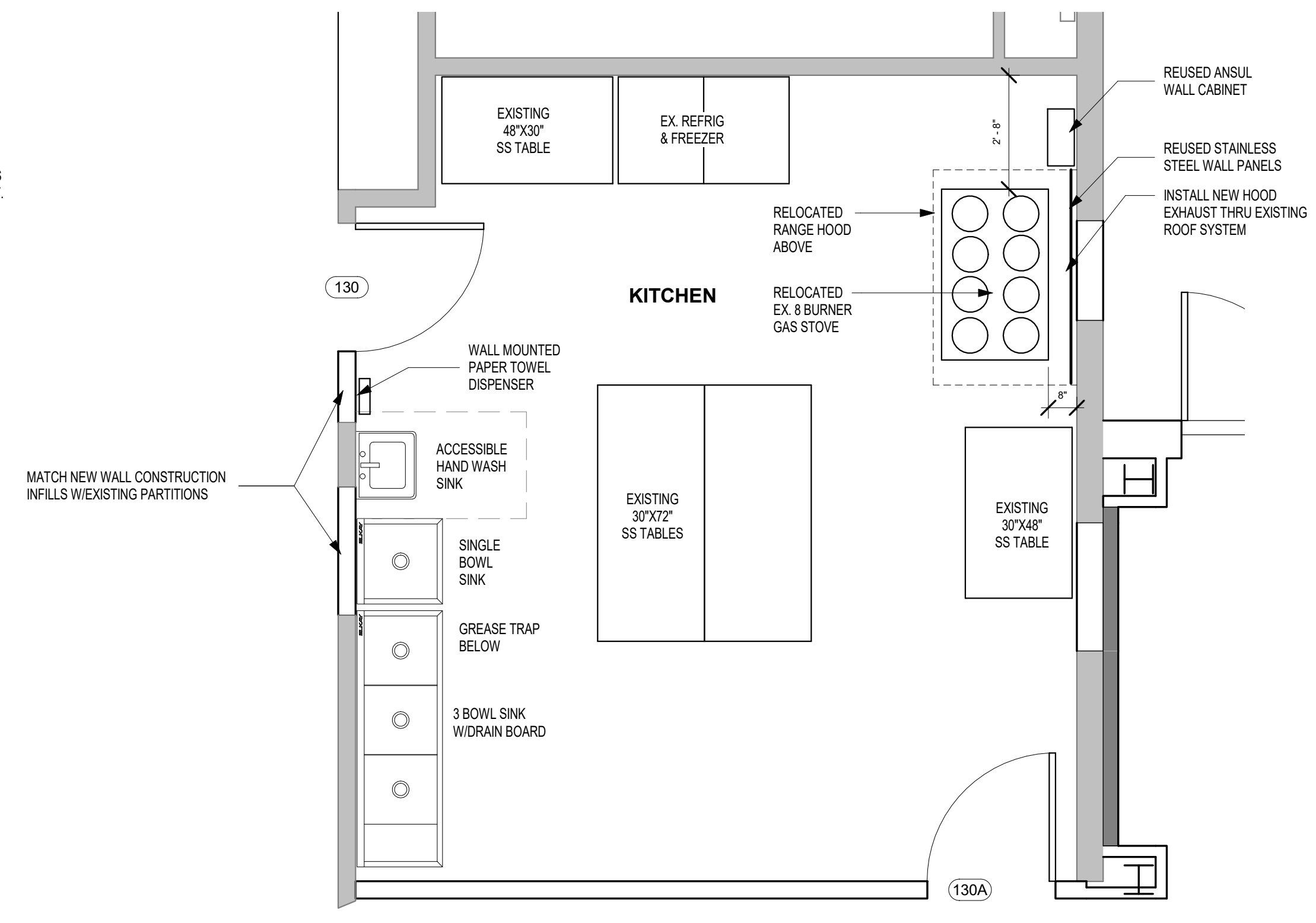
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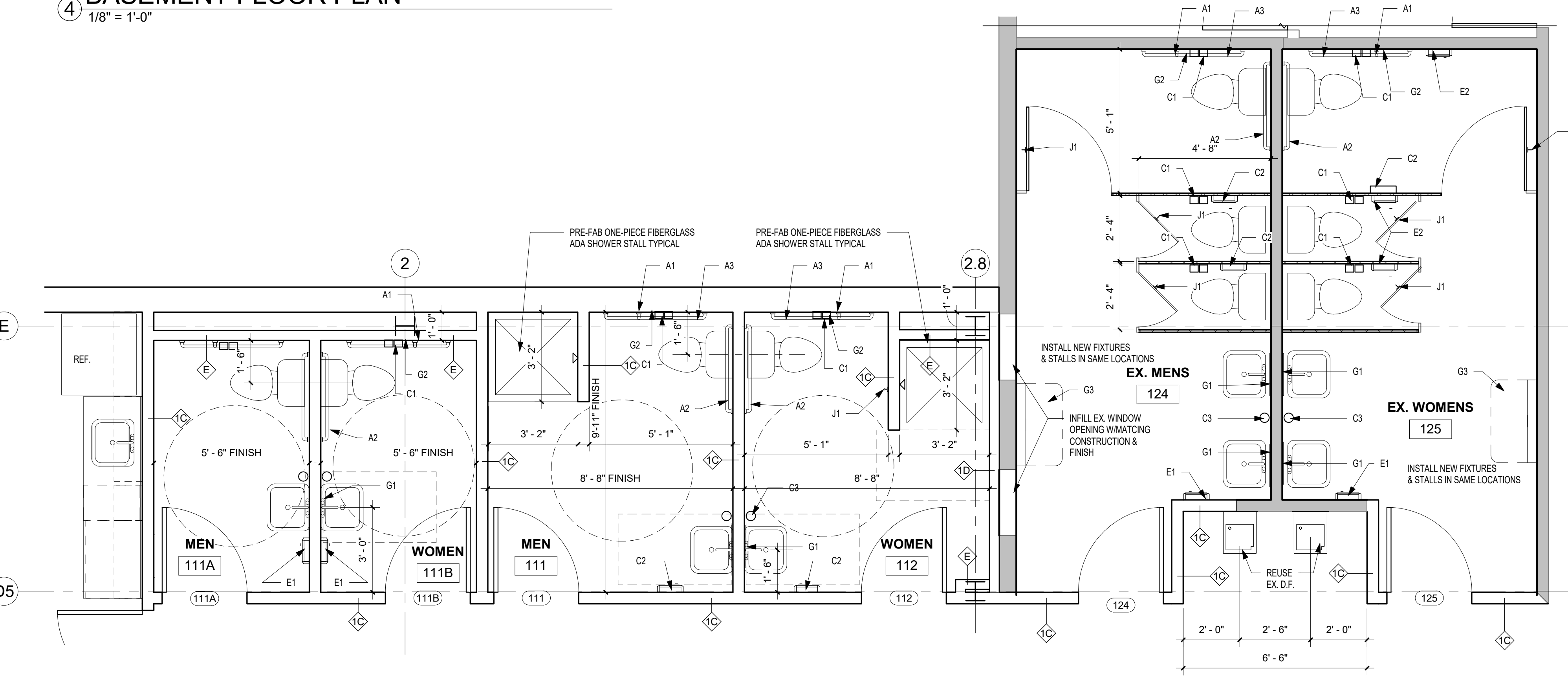
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**1 BASEMENT FLOOR PLAN**  
1/8" = 1'-0"



**2 KITCHEN PLAN**  
3/8" = 1'-0"



**3 TOILET ROOM PLANS**  
3/8" = 1'-0"

**TOILET ACCESSORY LEGEND**  
BOBRICK ACCESSORIES

- A1 B-5806.99 X 18 VERTICAL GRAB BAR
- A2 B-5806.99 X 36 GRAB BAR
- A3 B-5806.99 X 42 GRAB BAR
- A4 SWING UP GRAB BAR
- C1 B-265 - SURFACE MOUNTED 2 ROLL TOILET TISSUE DISPENSER
- C2 B-421 - SURFACE MOUNTED TOILET SEAT COVER DISPENSER
- C3 B4112 - SURFACE MOUNTED SOAP DISPENSER
- E1 B-262 - PAPER TOWEL DISPENSER
- E2 B-4708C - SURFACE MOUNTED SANITARY NAPKIN DISPENSER
- E3 B-5270 - SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
- G1 B-165 1824 - WALL MOUNTED 18X24 FRAMED MIRROR
- G2 CALL FOR AID CHORD LOCATION
- G3 KB-200-SS HORIZONTAL WALL MOUNTED CLOTHES HOOK

**SHOWER STALLS BY FREEDOM**

- Model: FREEDOM ADA TRANSFER SHOWER - APF3838F1PRRFL
- Model: FREEDOM ADA TRANSFER SHOWER - APF3838F1PRRFR
- ACCESSORIES:
  - Folding Shower Seat (factory installed)
  - Grab Bars-Inside corner & straight (factory installed)
  - Shower Roof (factory installed)
  - Call/Kneel Drain
  - Soap dish (factory installed)
  - Pressure Balance Mixing Valve and Hand-held Shower & Slide Bar (factory mounted)
  - Weighted Curtain
  - Collapsible Water Retainer
  - Flange trim kit

**TOILET STALLS BY METPAR**

MODEL: TYPE FP 500 CORINTHIAN COLOR:

Level	ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL BASE FINISH	WALL FINISH				WAINSCOTING	CEILING FINISH	COMMENTS
					NORTH	EAST	SOUTH	WEST			
BASEMENT PLAN	B02	BASEMENT	SEALED CONC.	-	PT-1	PT-1	PT-1	PT-1	-	NO CEILING	
BASEMENT PLAN	S01	STAIR 1	LVT/SC.	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	100	VEST	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	101	CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	102	CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	103	MEETING ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	104	PROGRAM ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	105	STAIR 1	LVT/SC.	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	106	PROGRAM ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	106B	STOR.	VCT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-4		
GROUND LEVEL	107	CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	108	PARKS & RECREATION	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	109	STOR.	VCT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-4		
GROUND LEVEL	109	DIR OFFICE	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	110	RESOURCE ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	111	MEN	CT-1	CT	CT-1	CT-1	CT-1	CT-1	ACT-2		
GROUND LEVEL	111A	MEN									
GROUND LEVEL	111B	MEN									
GROUND LEVEL	112	WOMEN	CT-1	CT	CT-1	CT-1	CT-1	CT-1	ACT-2		
GROUND LEVEL	113	CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	114	CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	115	OFFICE	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	116	OFFICE	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	117	FOOD STORAGE	EPOXY	EPOXY	PT-1	PT-1	PT-1	PT-1	ACT-2		
GROUND LEVEL	118	CORR.	LVT	BV	PT-1	PT-1	PT-1	PT-1	ACT-2		
GROUND LEVEL	119	GAME ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	120	FITNESS ROOM	RUB-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	121	STORAGE ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	123	SCOUT STORAGE	VCT	VB	PT-1	PT-1	PT-1	PT-1	ACT-4		
GROUND LEVEL	124	EX. MENS	CT-2	CT	CT-1	CT-1	CT-1	CT-1	ACT-2		
GROUND LEVEL	124	SCOUT PROGRAM ROOM	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	125	EX. WOMENS	CT-2	CT	CT-1	CT-1	CT-1	CT-1	ACT-2		
GROUND LEVEL	126	EX. MECH.	CT-2	CT	CT-1	CT-1	CT-1	CT-1	ACT-4		
GROUND LEVEL	127	SENIOR ASST	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	128	EX CORR.	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	129	EX VEST	LVT	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	130	KITCHEN	EPOXY	EPOXY	PT-1WS	PT-1WS	PT-1WS	PT-1WS	ACT-2		
GROUND LEVEL	131	SOCIAL SERVICES	CPT-1	BV	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	132	AIDE	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	133	AIDE	CPT-1	VB	PT-1	PT-1	PT-1	PT-1	ACT-1		
GROUND LEVEL	134	EXISTING ASSEMBLY	LVT	VB	PT-1	PT-1	PT-1	PT-1	PT-4	ACT-1/3	

**ROOM FINISH MATERIALS**

**FLOORING**

- CARPET TILES
- CPT-1: OFFICES & PROGRAM ROOMS
- SEALED CONCRETE
- SC-1 CLEAR COAT POLYURETHANE
- CERAMIC TILE
- CT-1 NEW & EXISTING RESTROOM FLOORS
- VINYL COMPOSITION TILE
- VCT-1: STORAGE ROOMS
- LUXURY VINYL TILE
- LVT-1: CORRIDORS
- INTERLOCKING RUBBER
- IR-1
- EPOXY RESIN FLOORING
- EXP-1 KITCHEN FLOOR AND WALL BASE

**WALL BASE**

- WOOD
- WD-1: ASSEMBLY ROOM
- VINYL
- VWB-1: ALL SPACES EXCEPT AS NOTED
- CERAMIC
- CTB-1: RESTROOMS

**WALL FINISHES**

- PAINT
- PT-1 GYPSUM BOARD WALLS
- PT-3 NEW & EXISTING METAL DOORS & FRAMES
- PT-4 NEW & EXISTING BEADBOARD WAINSCOTING
- PT-5 NEW & EXISTING WOOD WINDOW SILLS
- PT-6 NEW & EXISTING WOOD WALL BASE
- CERAMIC
- CT-2 NEW & EXISTING RESTROOM WALLS, FULL HEIGHT
- FRP
- FRP-1 KITCHEN WALLS, FULL HEIGHT
- STAINLESS STEEL
- SS-1 KITCHEN WALL BEHIND EXISTING GAS RANGE

**CEILING FINISHES**

- PAINTED GYPSUM BOARD - SCOFFITS: PT-2
- AKNSTRONG ACOUSTIC PANELS
- ACT-1: ULTIMA HEALTH ZONE #1941, 24X24X7/8, WHITE, BEVELED REGULAR, WHITE 15/16 GRID
- ACT-2: ULTIMA HEALTH ZONE #314, 24X24X1, WHITE, SQUARE LAY-IN, WHITE 15/16 GRID
- ACT-3: ULTIMA HEALTH ZONE #1944, 24X24X7/8, WHITE, BEVELED REGULAR, WHITE 15/16 GRID
- ACT-4: ULTIMA HEALTH ZONE #1940, 24X24X7/8, WHITE, SQUARE LAY-IN, WHITE 15/16 GRID

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**DRAWING**

**BASEMENT & ENLARGED RM PLANS & FINISH SCHEDULE**

**A2**



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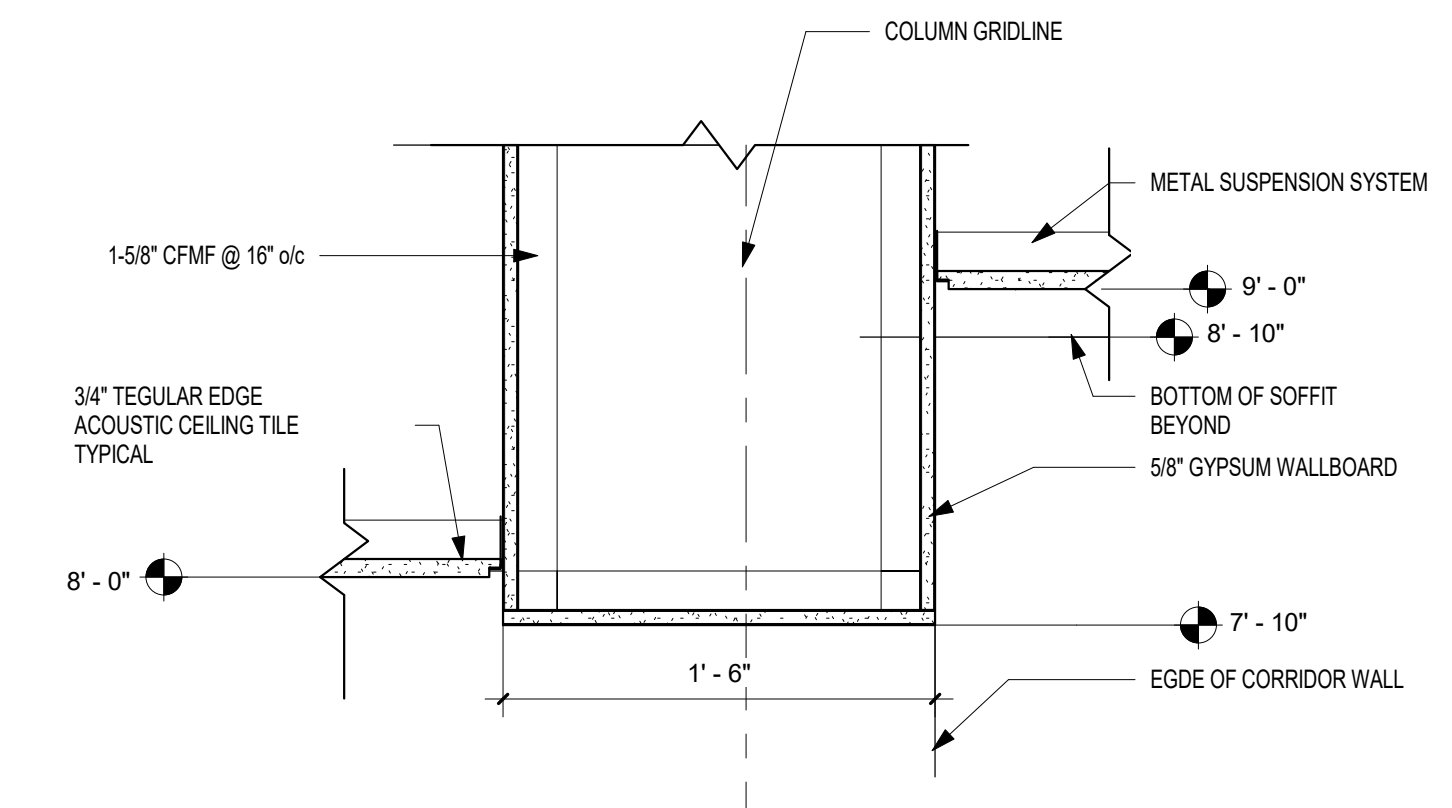
All products, fixtures, and equipment shall be installed in accordance with manufacturers' installation instructions and all applicable codes.

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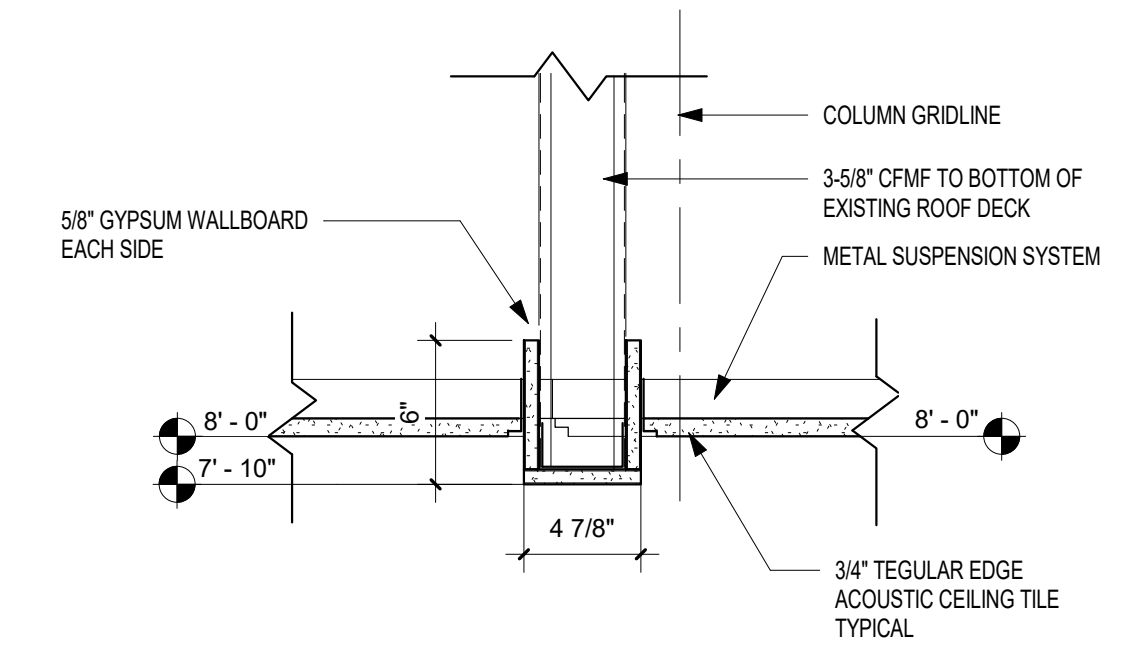
The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.

**REFLECTED CEILING PLAN LEGEND:**

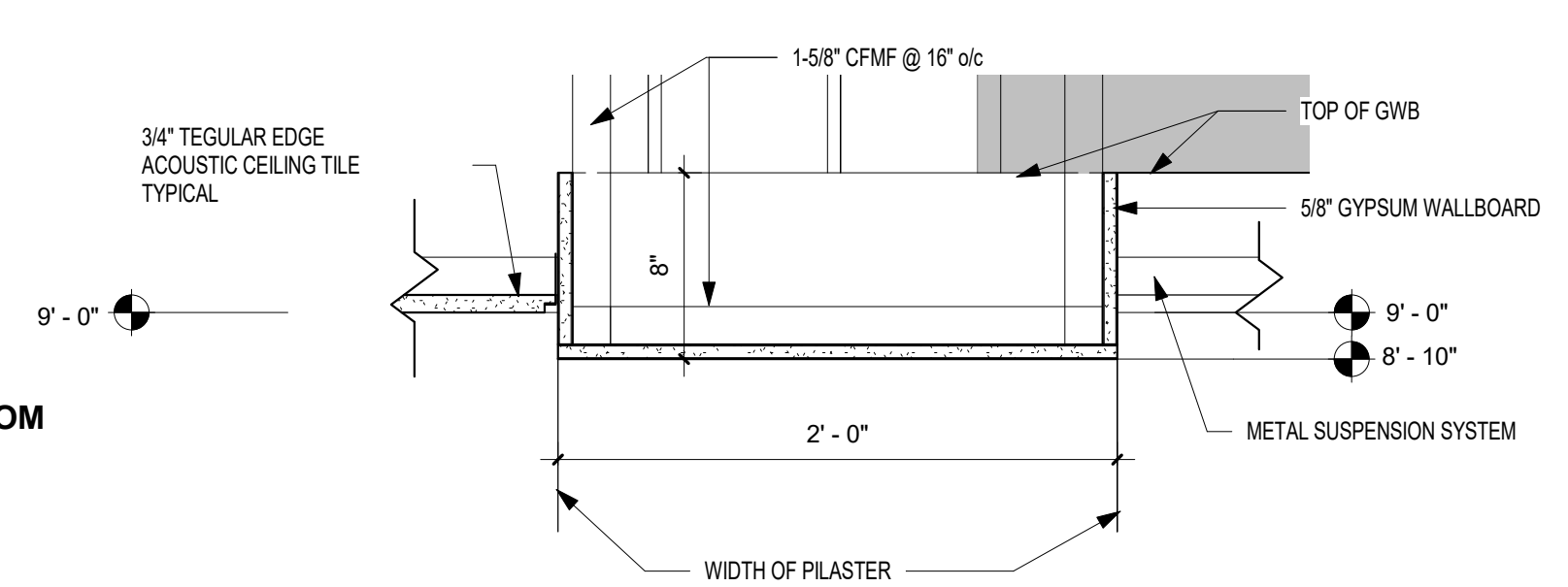
- 1x4 SURFACE MOUNTED LIGHT FIXTURE W/ WRAP AROUND LENSE
- LIGHT FIXTURES (SEE ELECTRICAL DWGS)
- REGISTERS, GRILLES, DIFFUSERS, (SEE HVAC DWGS)
- SEMI-RECESSED TYPE SPRINKLER HEAD
- CONCEALED TYPE SPRINKLER HEAD
- UPRIGHT TYPE SPRINKLER HEAD
- SIDEWALL TYPE SPRINKLER HEAD
- DRY TYPE SPRINKLER HEAD
- SPEAKER
- SMOKE DETECTOR
- OCCUPANCY SENSOR
- EXIT SIGN
- POWER REEL
- HEAT SENSOR
- PROJECTOR LOCATION
- PROJECTOR (N.I.C.), PROVIDE MOUNTING BRACKET. RE: DETAILS ON A711
- SECURITY CAMERA LOCATION (N.I.C.)
- ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING



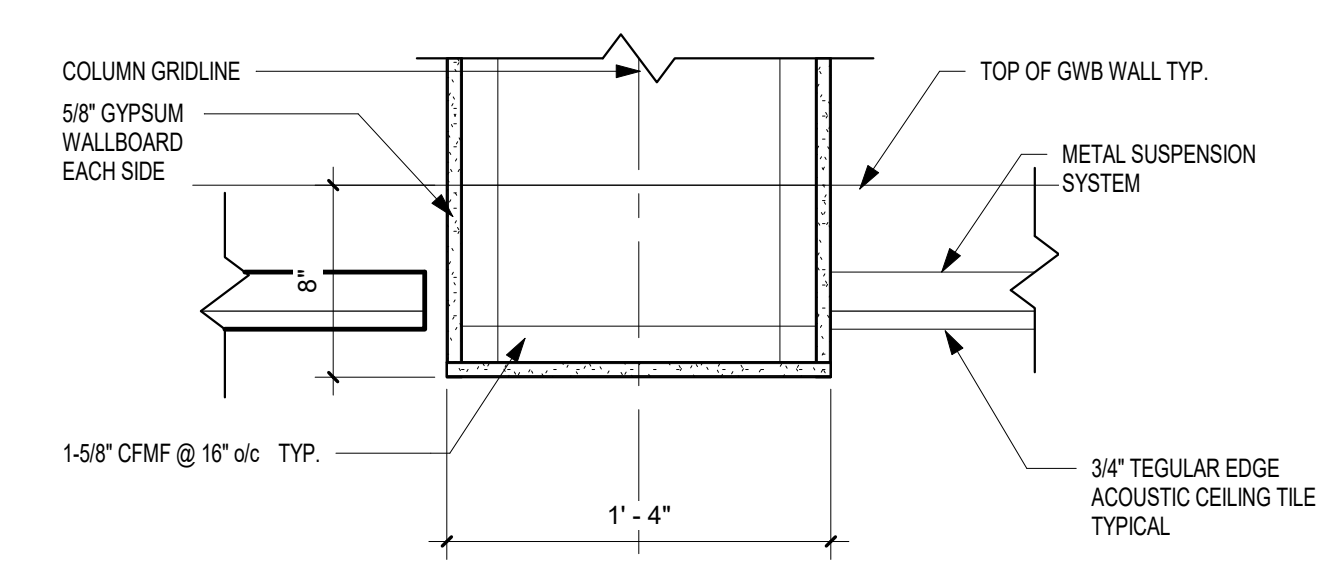
**SOFFIT DETAIL 01**  
1 1/2" = 1'-0"



**SOFFIT DETAIL 02**  
1 1/2" = 1'-0"



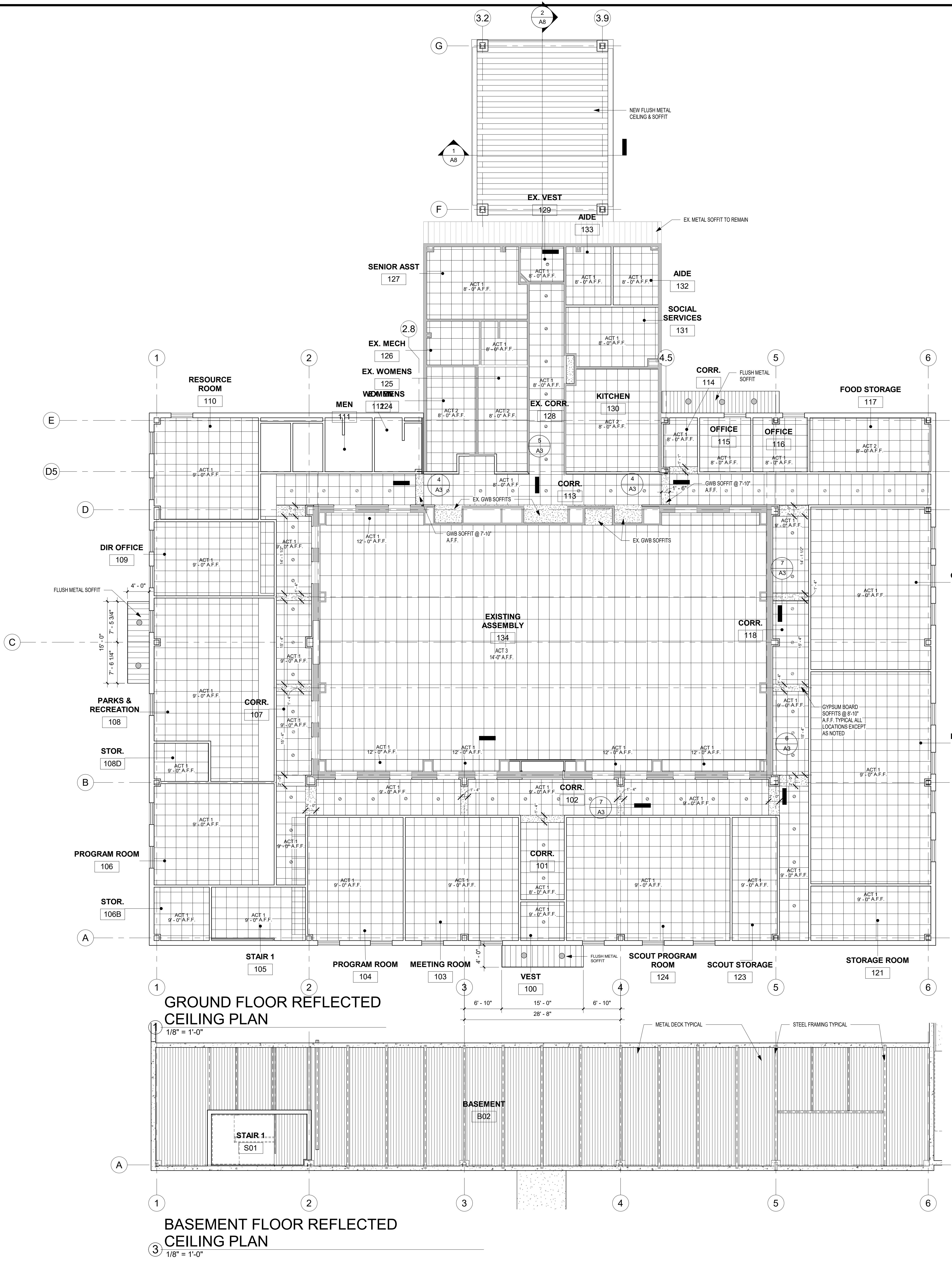
**SOFFIT DETAIL 03**  
1 1/2" = 1'-0"



**SOFFIT DETAIL 04**  
1 1/2" = 1'-0"

**CONSTRUCTION NOTES**

- REFER TO MEP DRAWINGS FOR LOCATIONS OF AIR SUPPLY, RETURN AIR DIFFUSERS, LIGHT FIXTURES, ALARMS, SMOKE DETECTORS, FIRE DETECTORS AND CEILING FANS.
- PAINT GYPSUM BOARD CEILING AND SOFFITS. REFER TO FINISH SCHEDULE.



**GROUND FLOOR REFLECTED CEILING PLAN**  
1/8" = 1'-0"

**BASEMENT FLOOR REFLECTED CEILING PLAN**  
1/8" = 1'-0"

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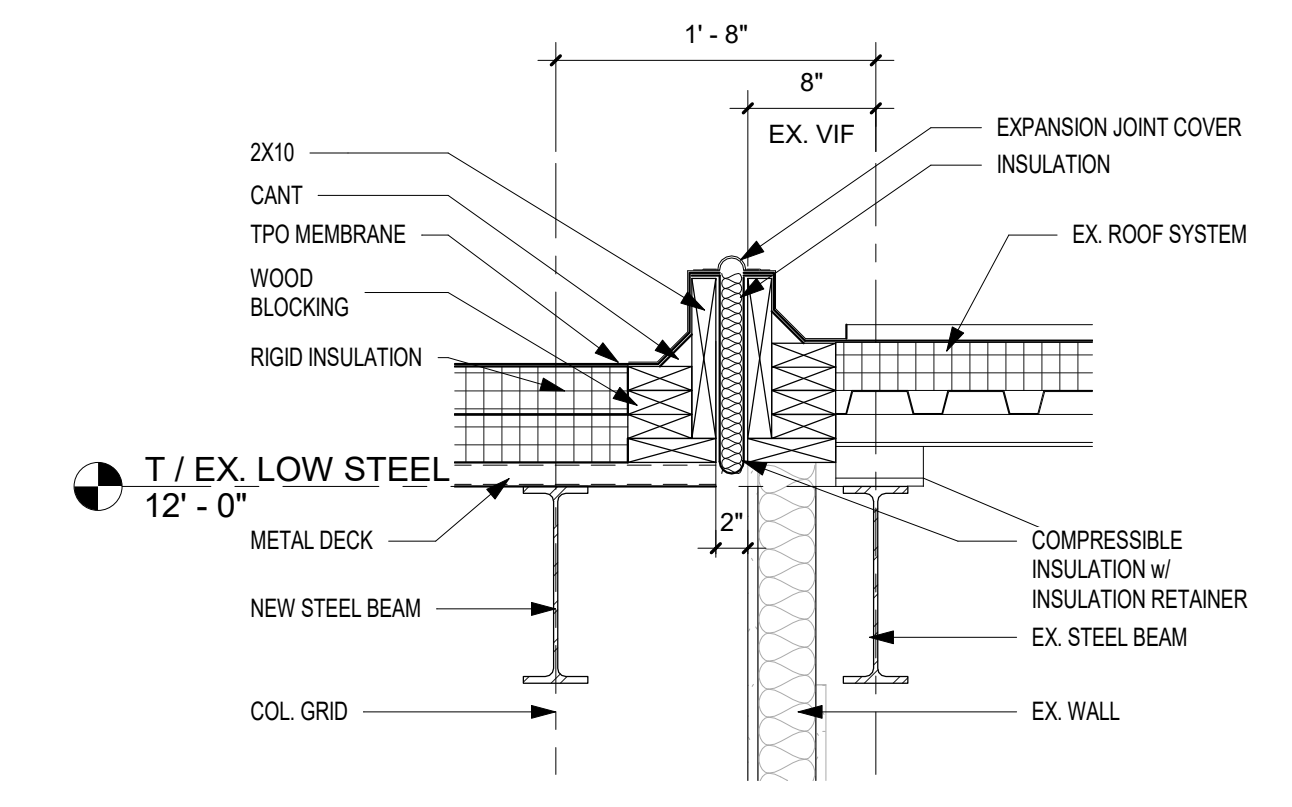
**PROJ NO:**  
2021.33

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9/20/2022

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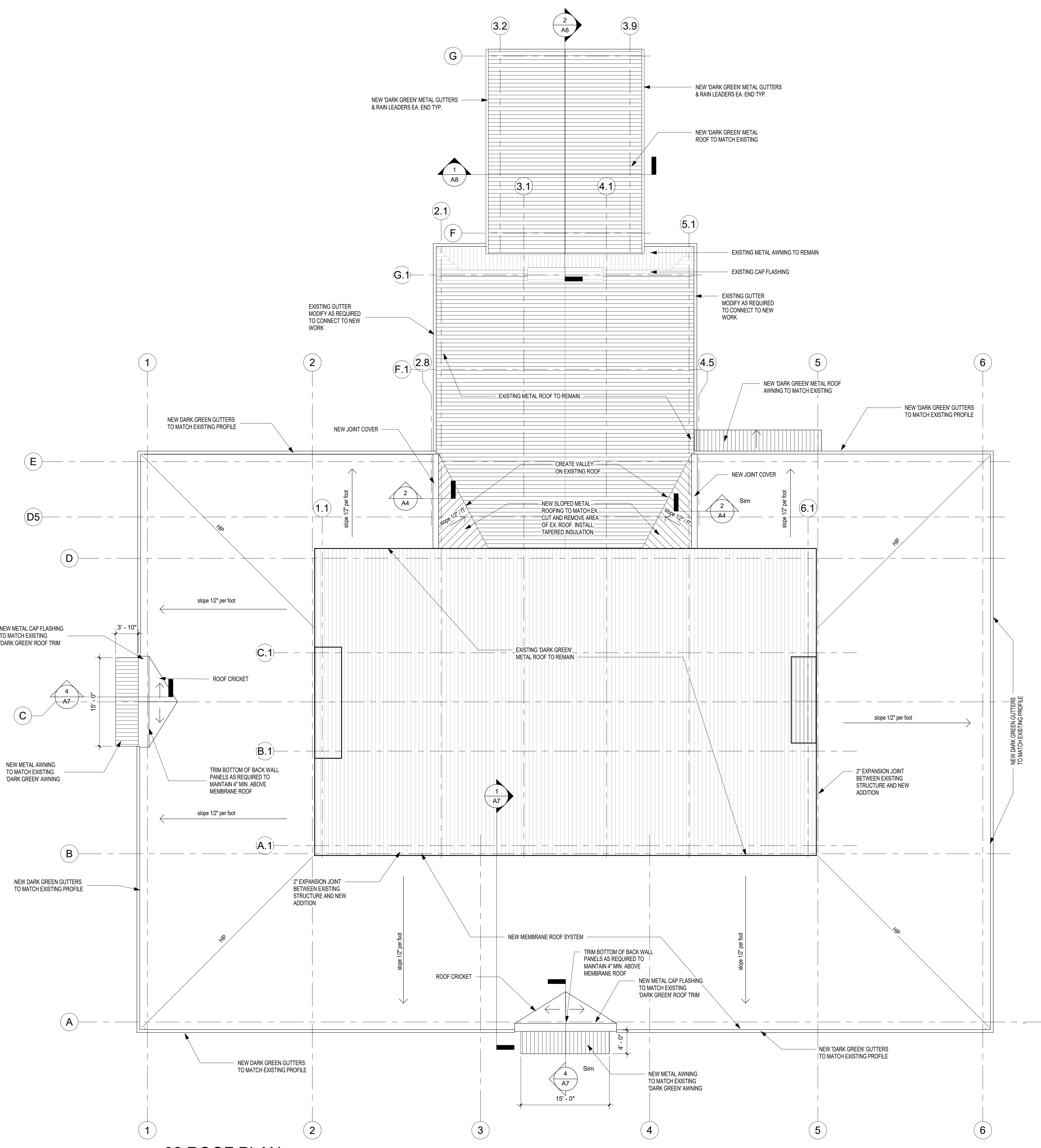
**DRAWING**  
REFLECTED CEILING PLANS





**2 ROOF EXPANSION JOINT**  
 1" = 1'-0"

EXISTING METAL ROOF WILL HAVE TO BE MODIFIED TO IMPROVE ROOF DRAINAGE



**02 ROOF PLAN**  
 1/8" = 1'-0"

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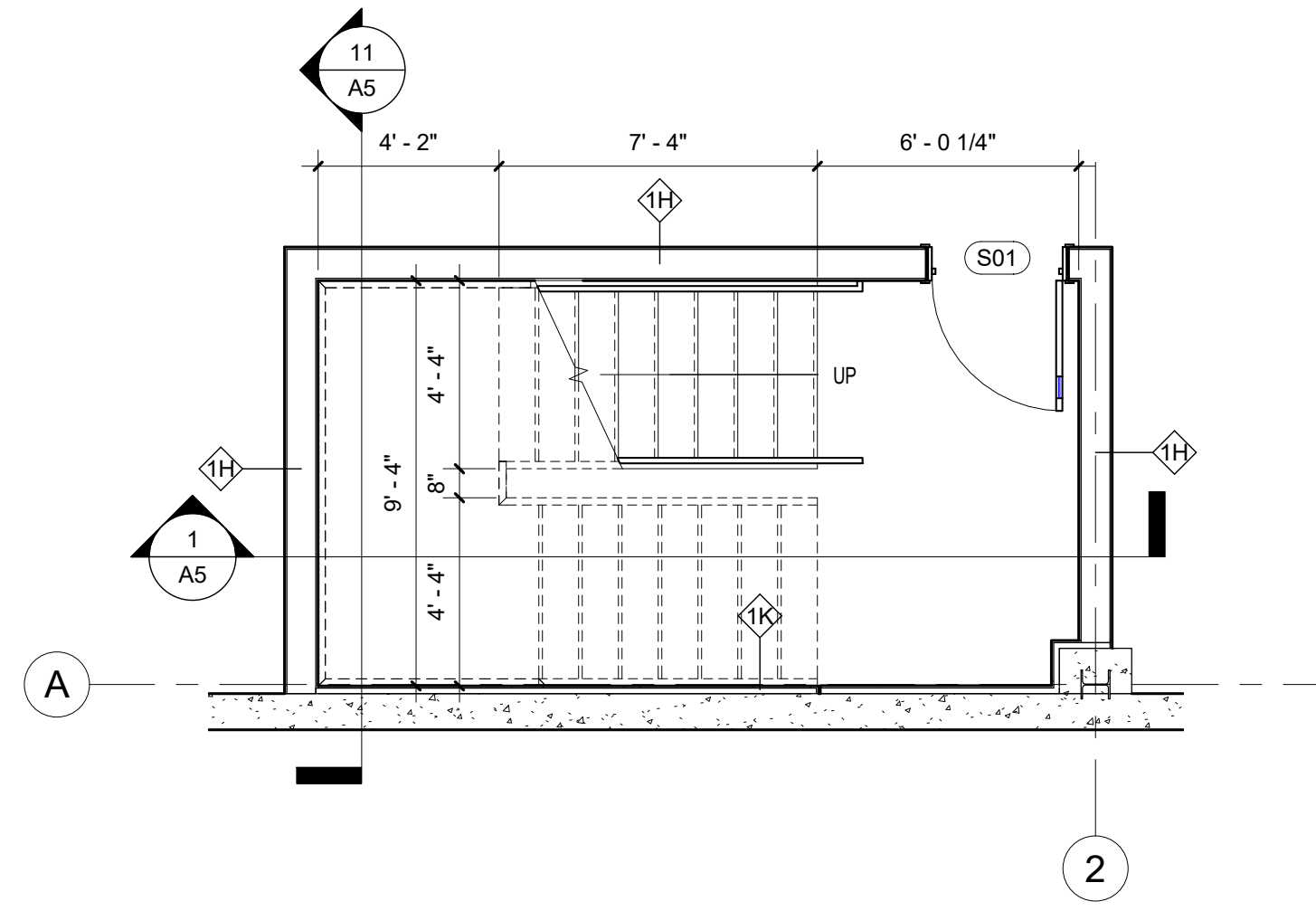
**ISSUE DATE:**  
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**REVISION DATE:**

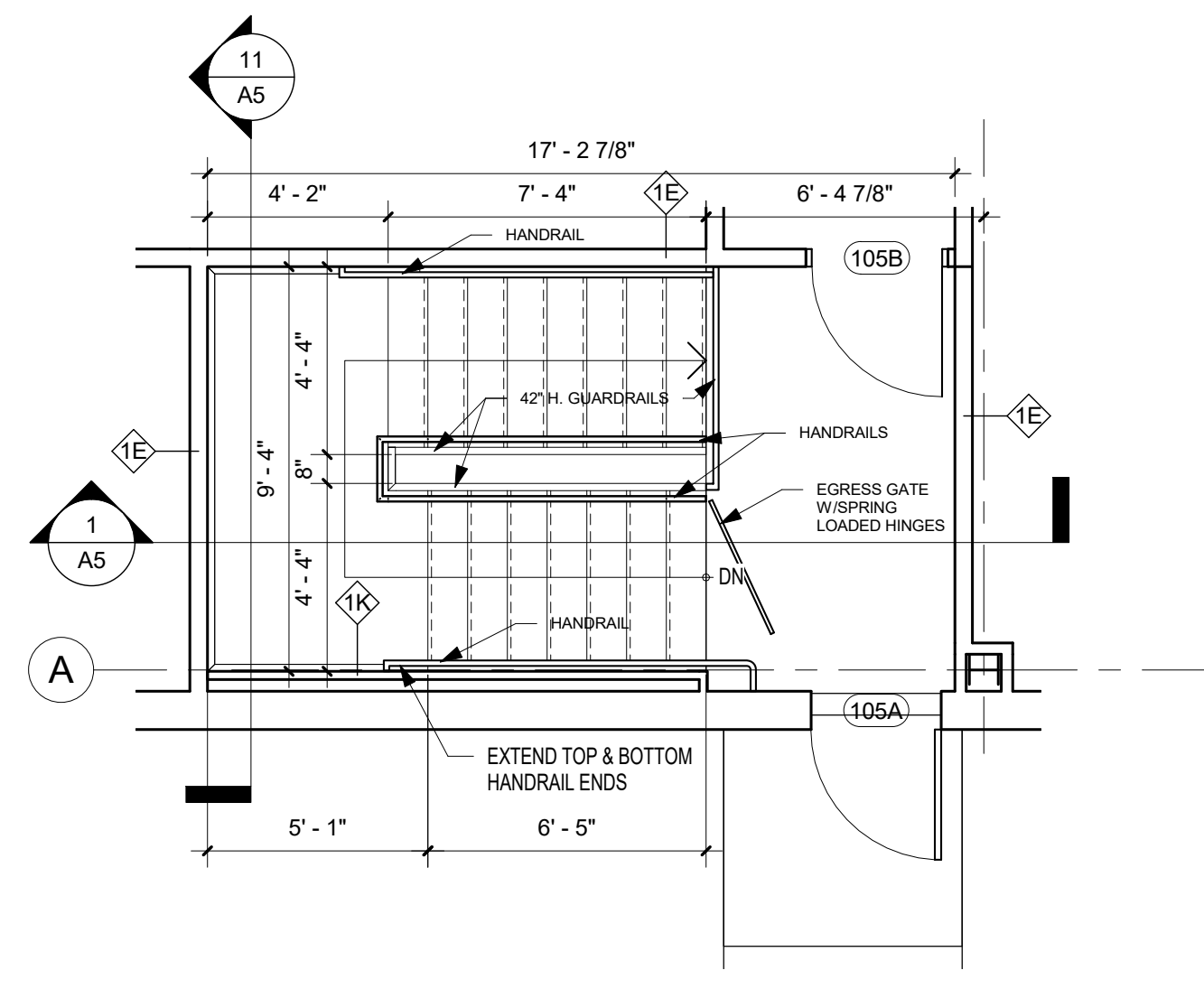
**DRAWING**  
**ROOF PLAN**

**A4**

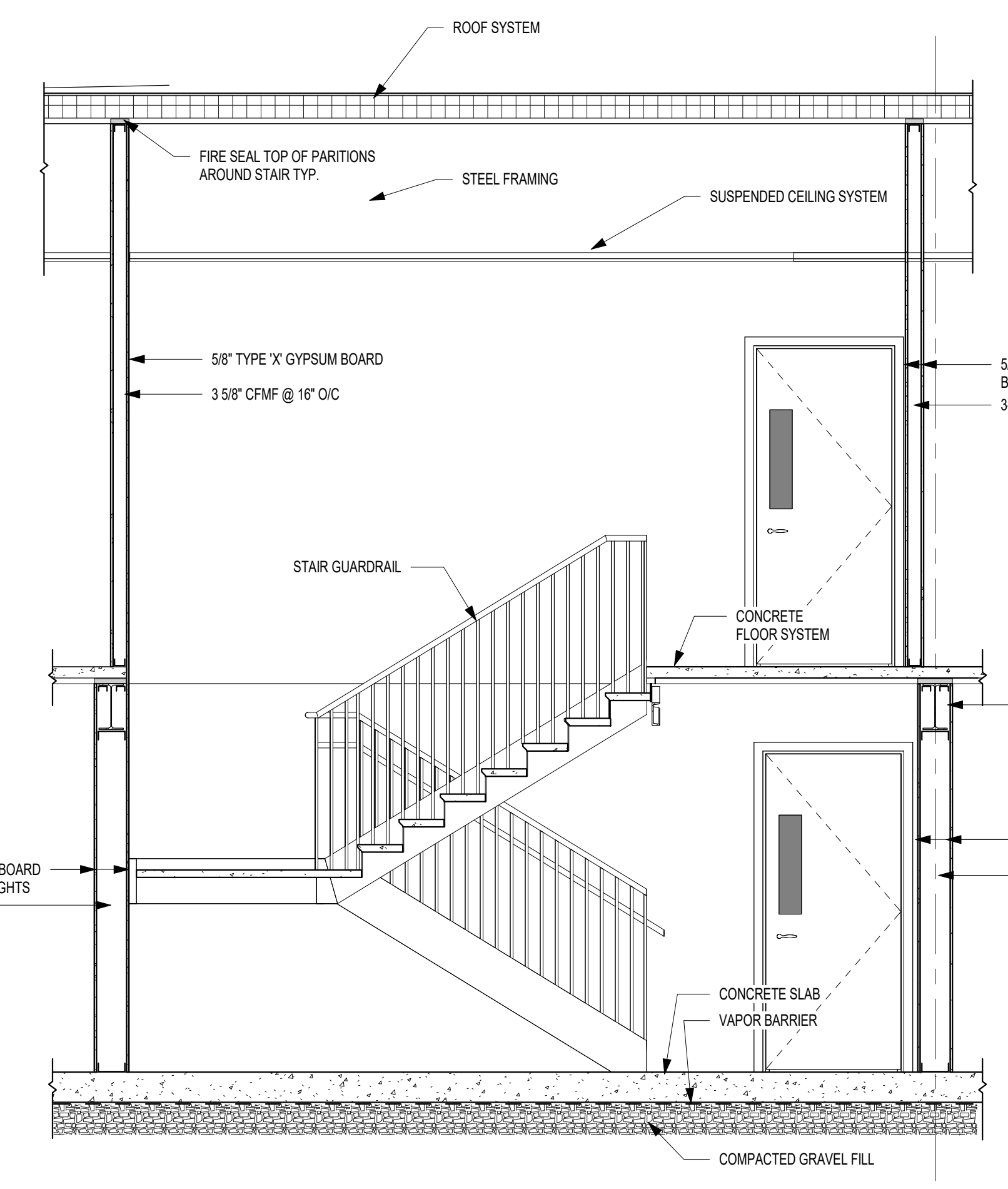




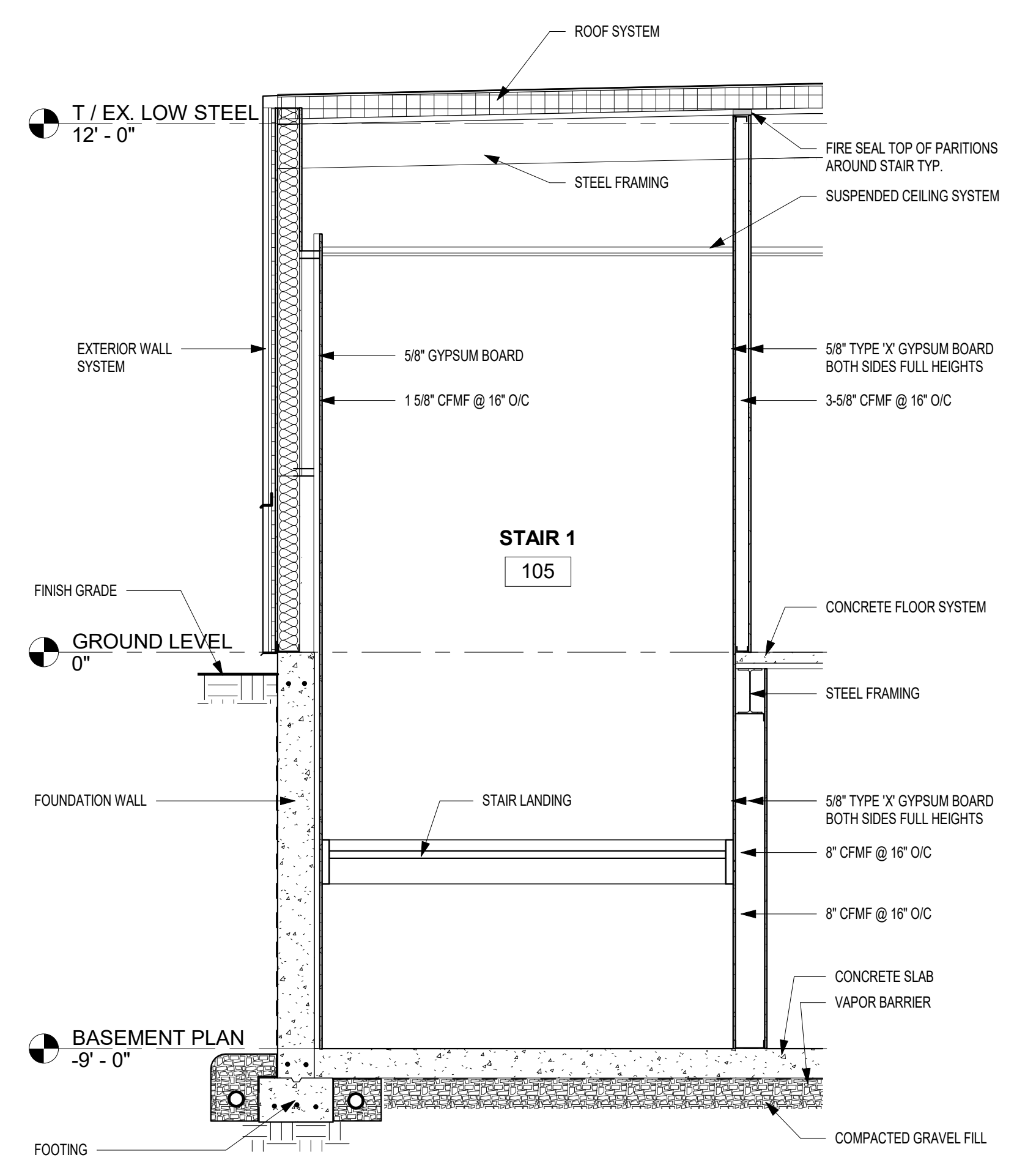
2 STAIR 1 BASEMENT PLAN  
 1/4" = 1'-0"



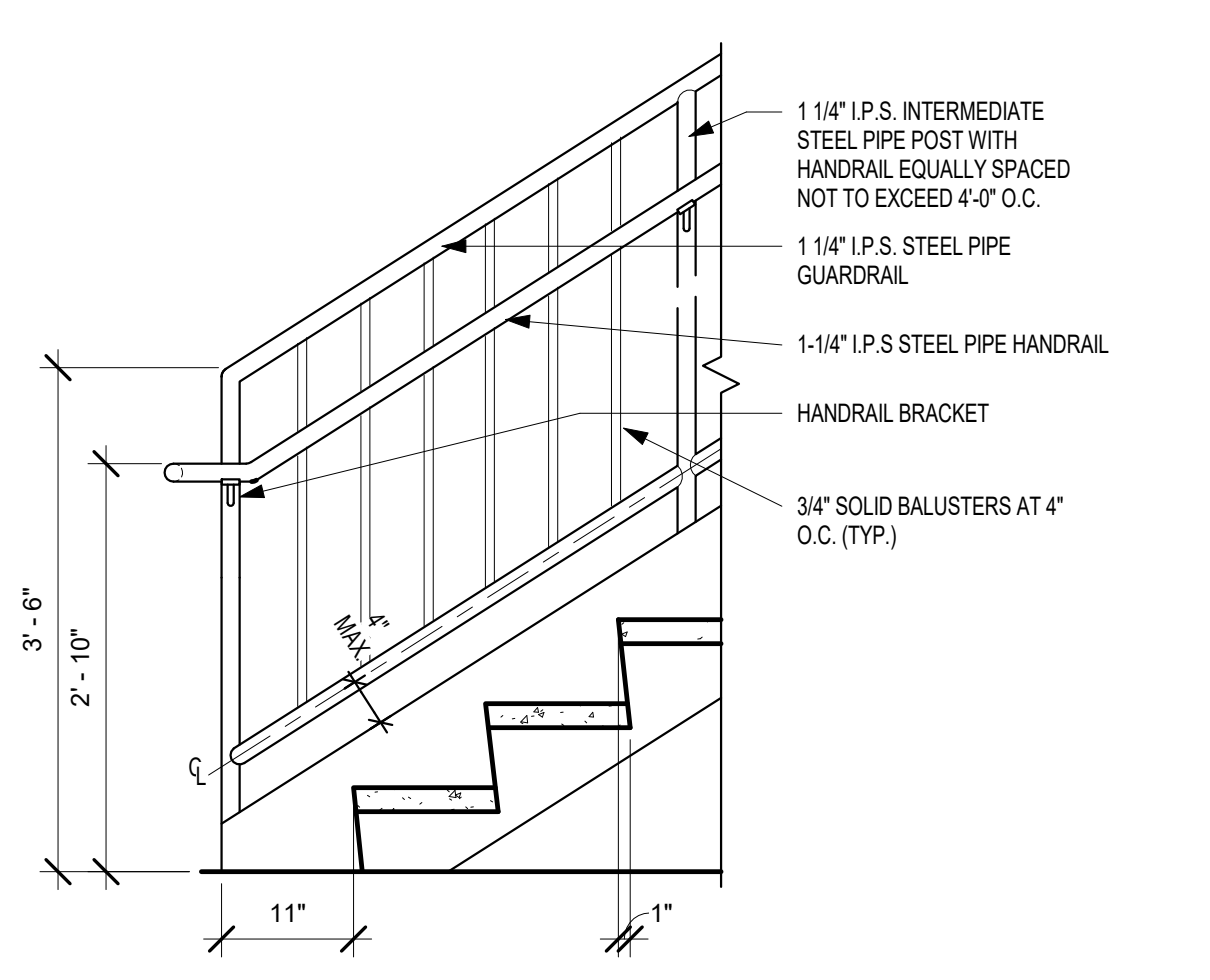
3 STAIR 1 GRADE PLAN  
 1/4" = 1'-0"



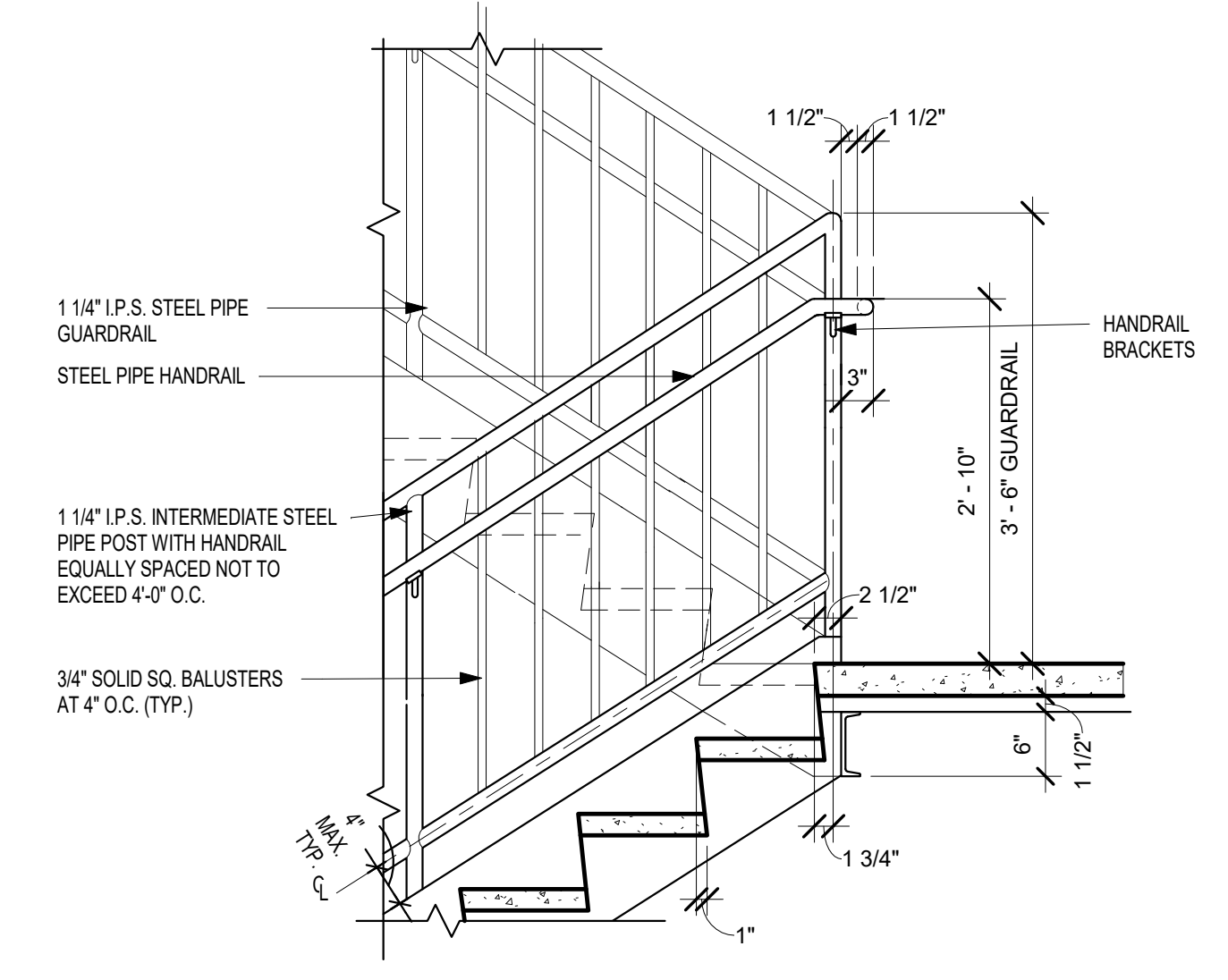
1 SECTION A THRU STAIR 1  
 3/8" = 1'-0"



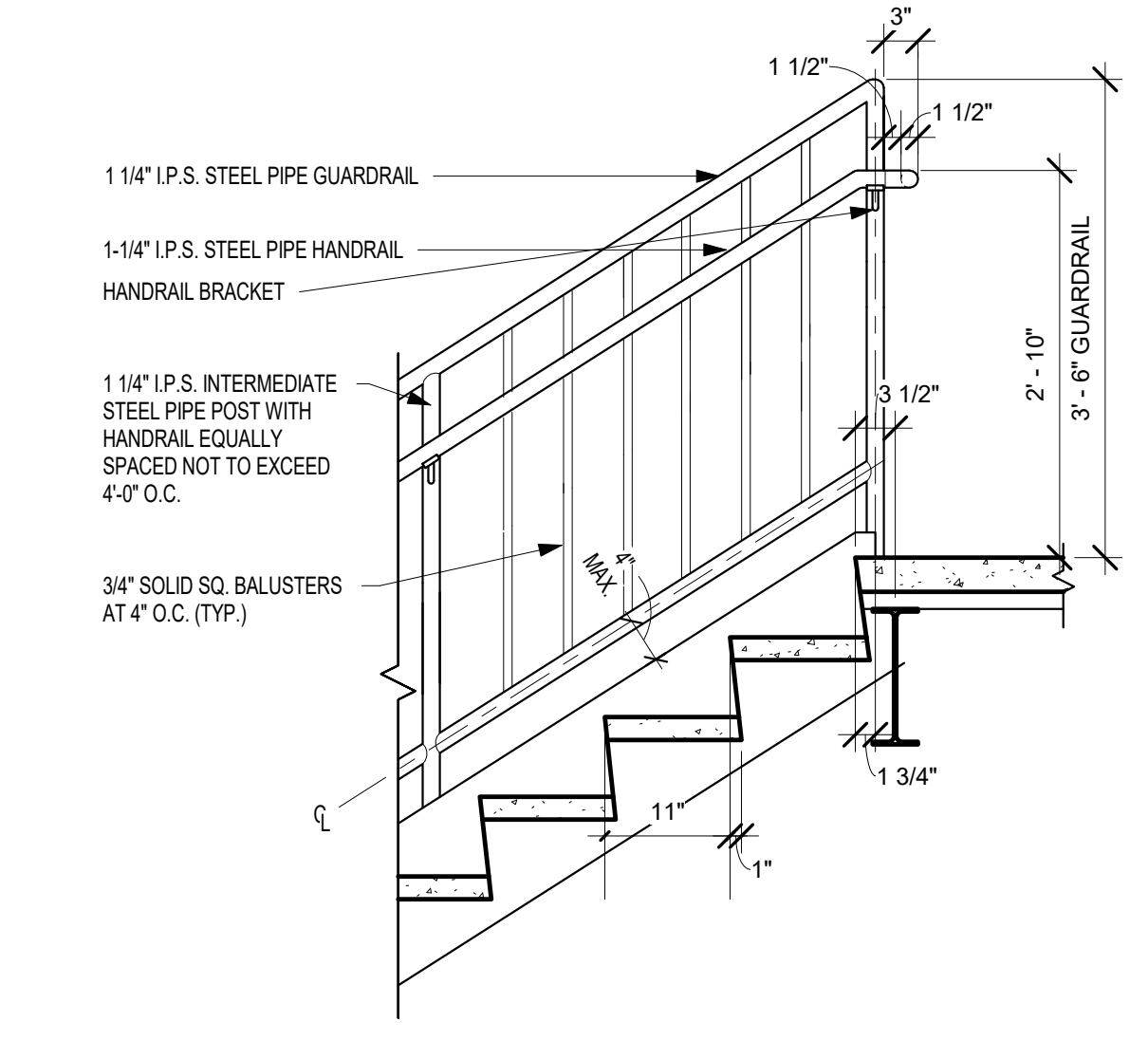
1 SECTION B THRU STAIR 2  
 3/8" = 1'-0"



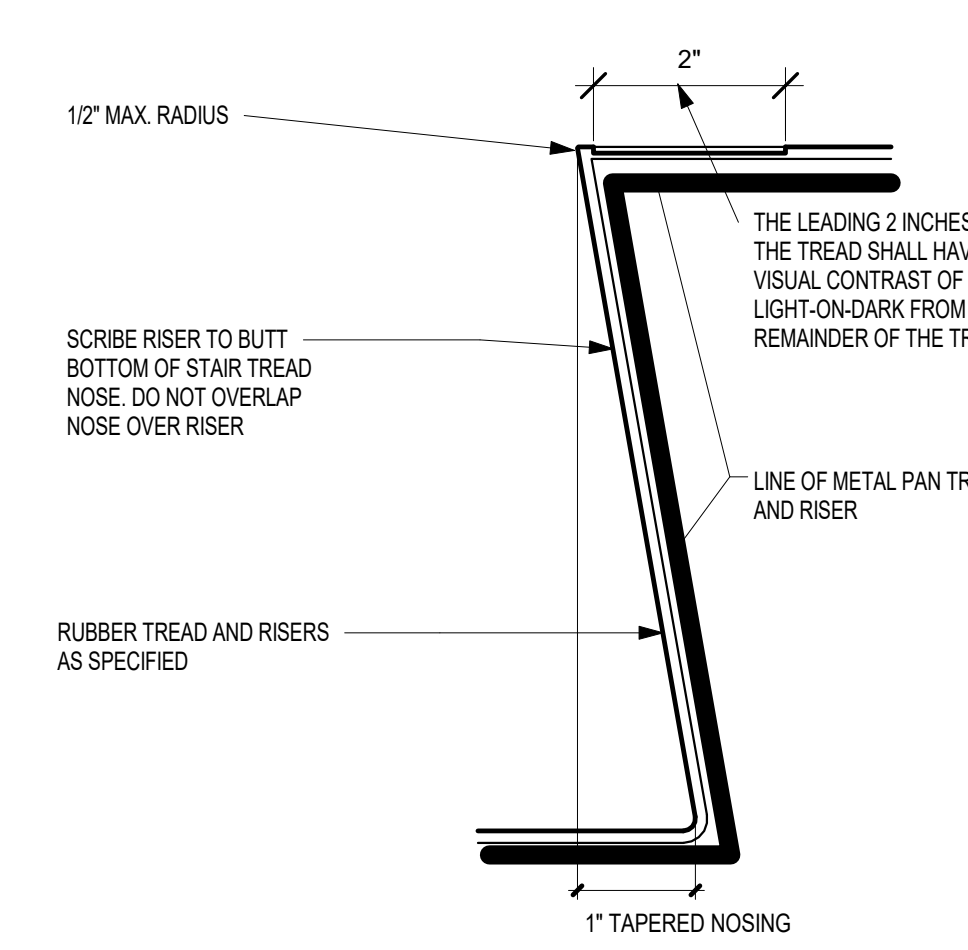
7 HANDRAIL/GUARDRAIL AT BOTTOM OF LANDING  
 3/4" = 1'-0"



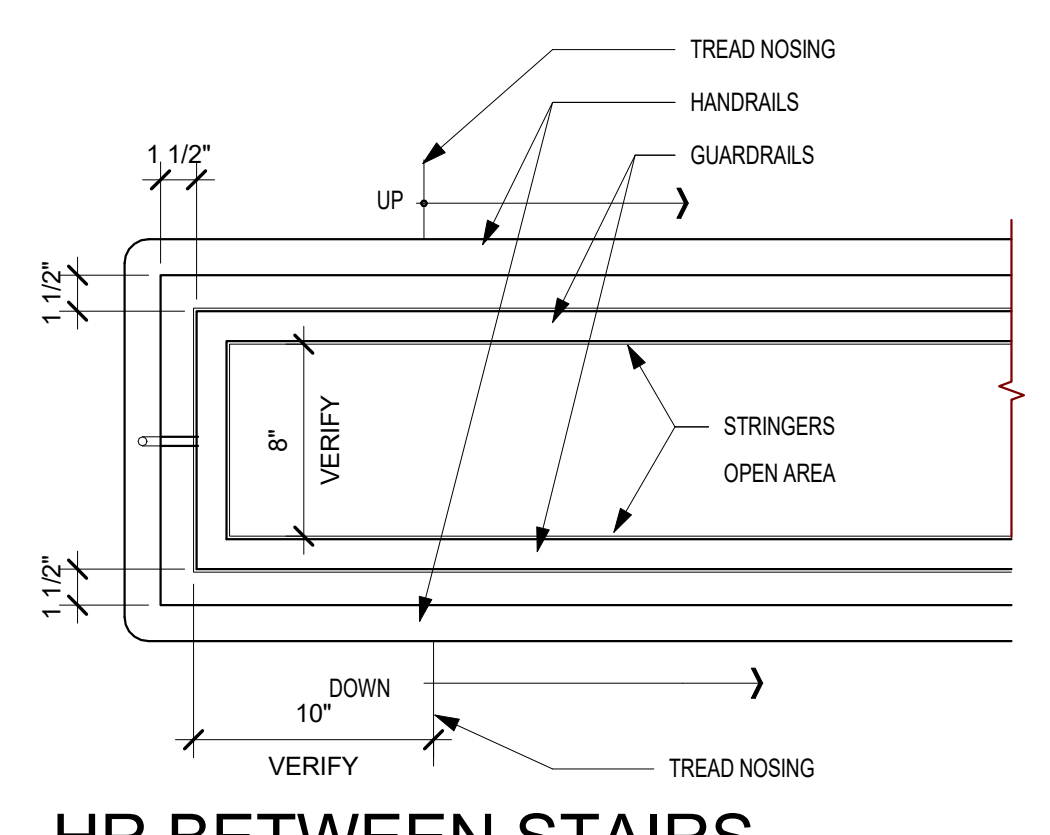
4 HANDRAIL/GUARDRAIL AT LANDING  
 3/4" = 1'-0"



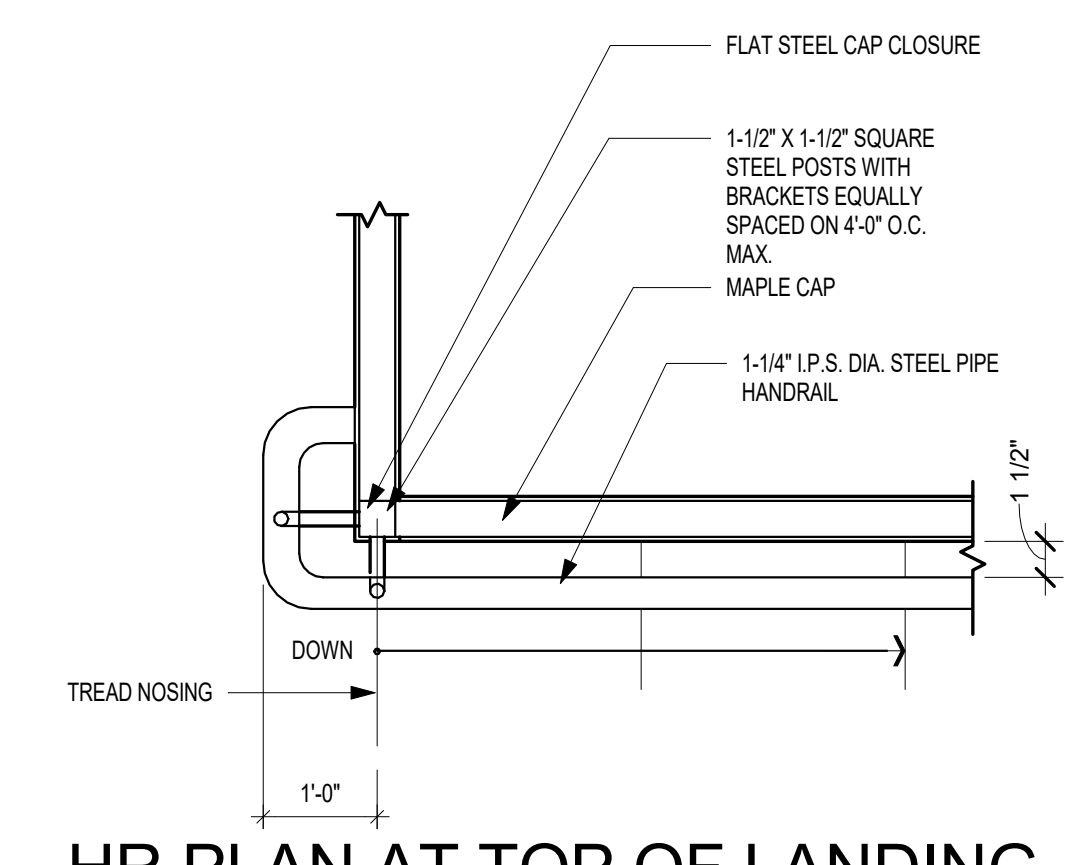
8 GUARDRAIL AT TOP OF LANDING  
 3/4" = 1'-0"



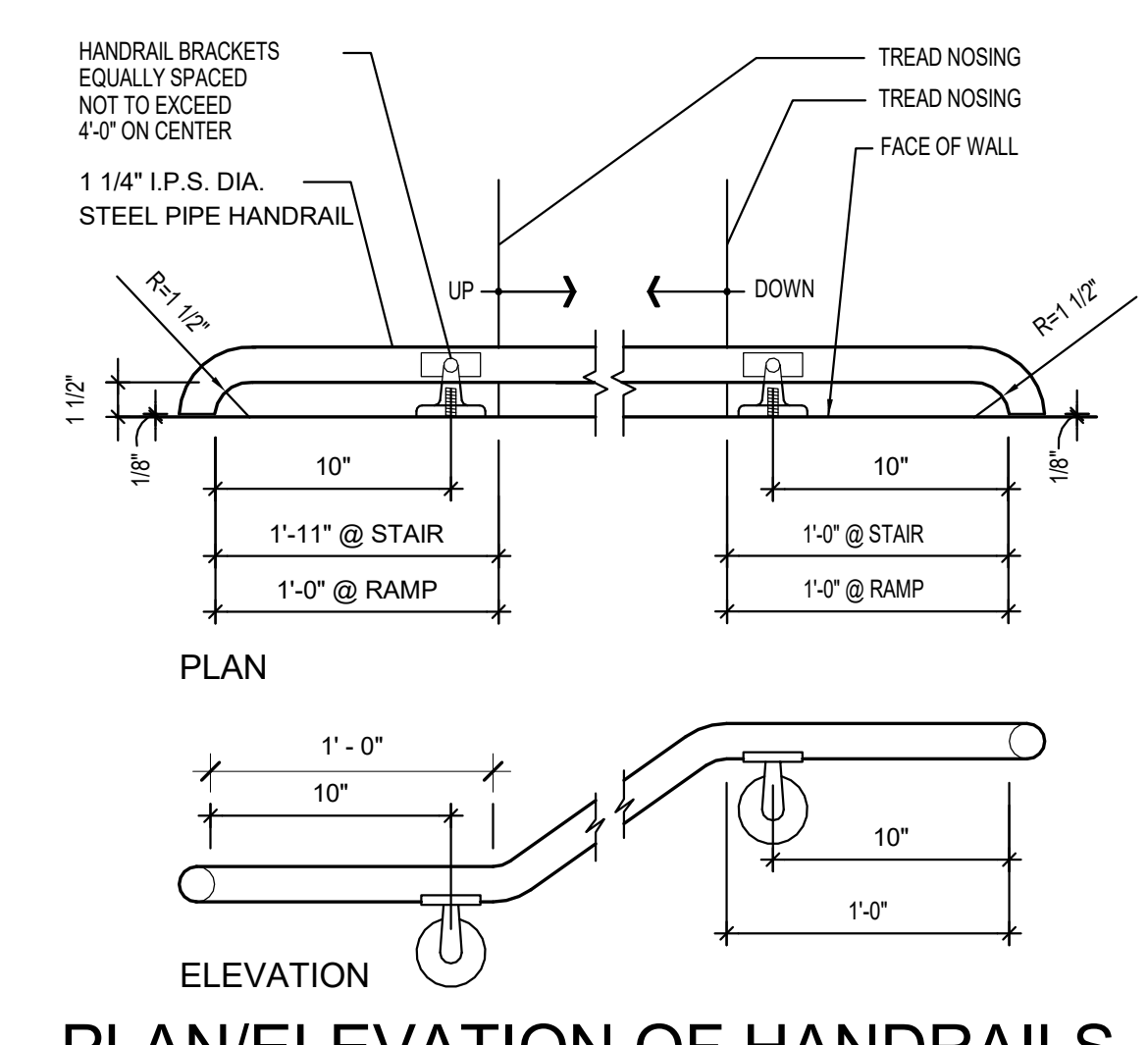
9 STAIR RISER/TREAD  
 8" = 1'-0"



5 HR BETWEEN STAIRS  
 1 1/2" = 1'-0"



6 HR PLAN AT TOP OF LANDING  
 1 1/2" = 1'-0"



10 PLAN/ELEVATION OF HANDRAILS  
 1 1/2" = 1'-0"

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DRAWING  
**STAIR PLANS & SECTIONS**

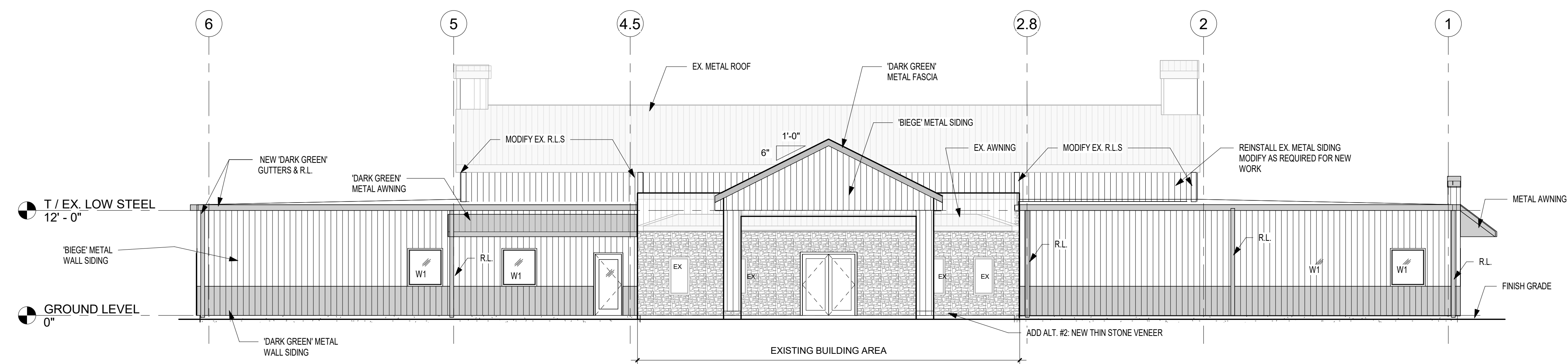


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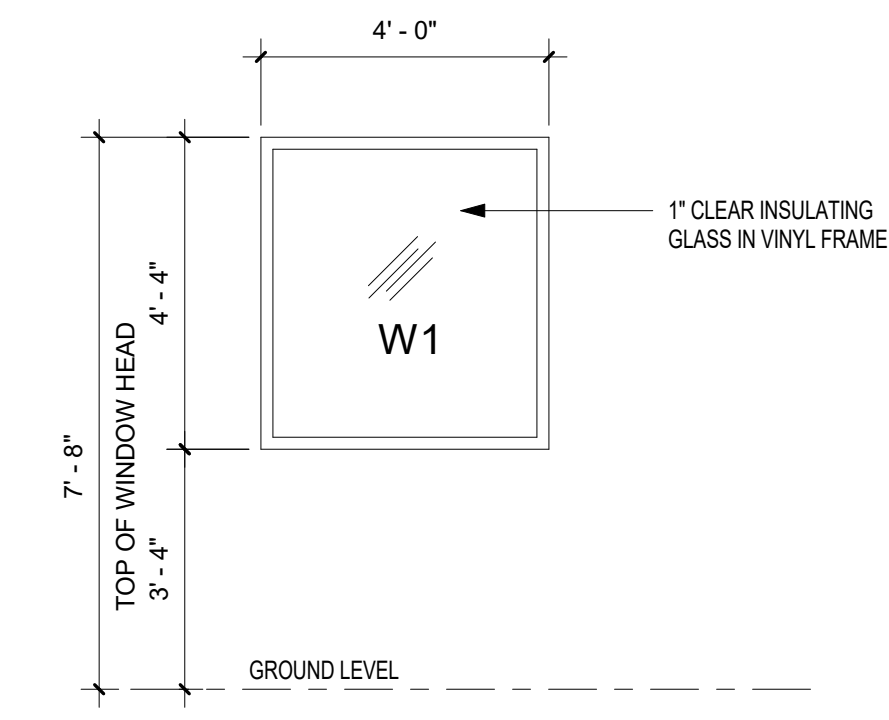
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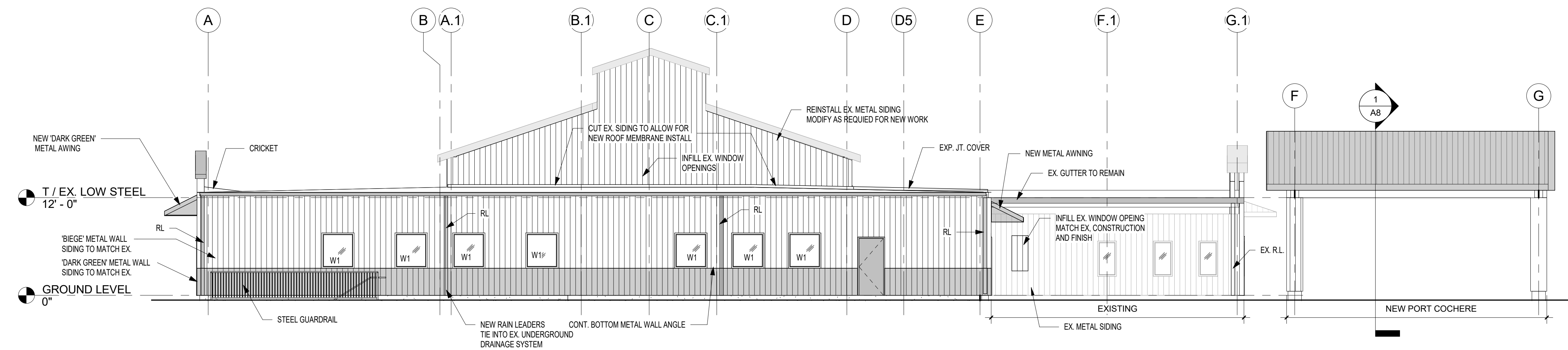
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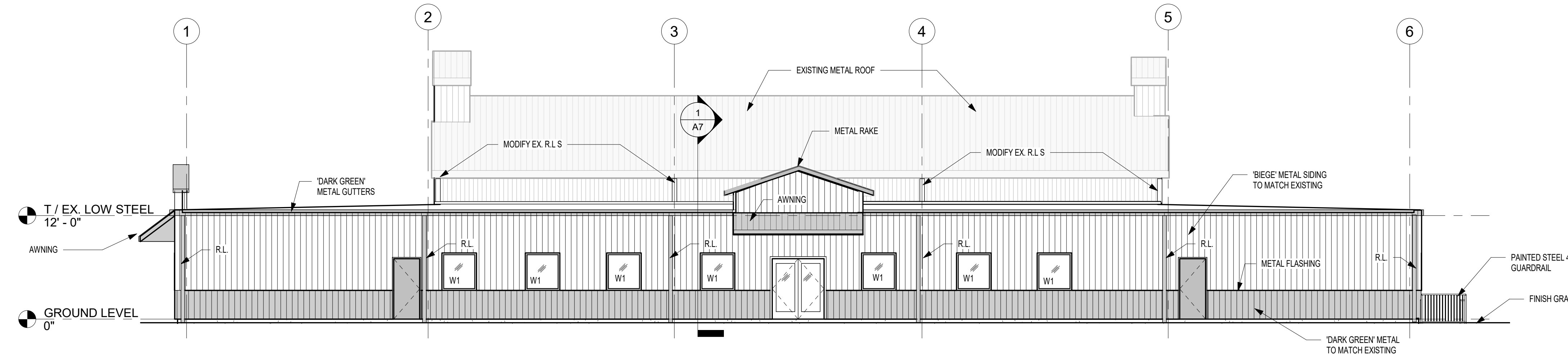
**4 NORTH ELEVATION**  
1/8" = 1'-0"



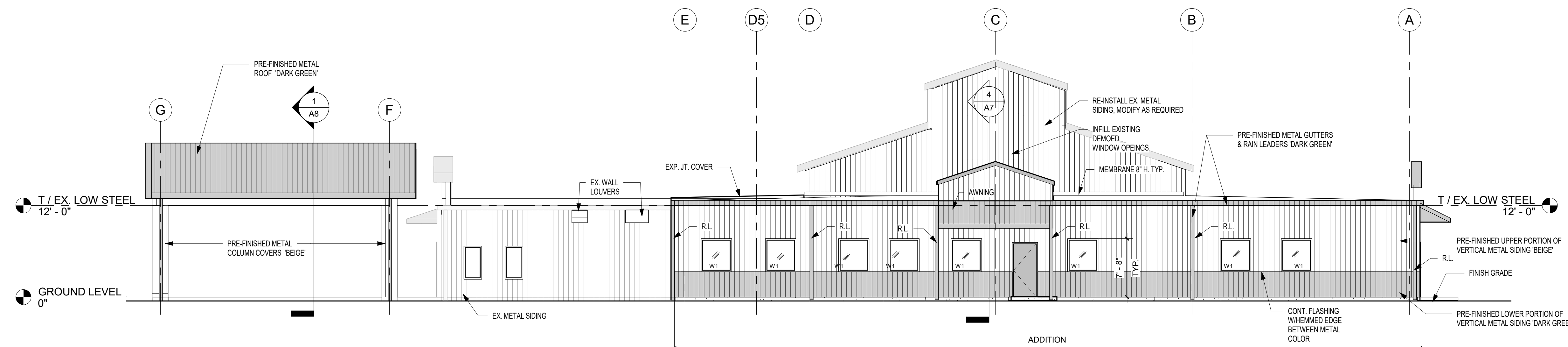
**6 WINDOW ELEVATION**  
3/8" = 1'-0"



**1 EAST ELEVATION**  
1/8" = 1'-0"



**2 SOUTH ELEVATION**  
1/8" = 1'-0"



**3 WEST ELEVATION**  
1/8" = 1'-0"

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**EXTERIOR  
ELEVATIONS**

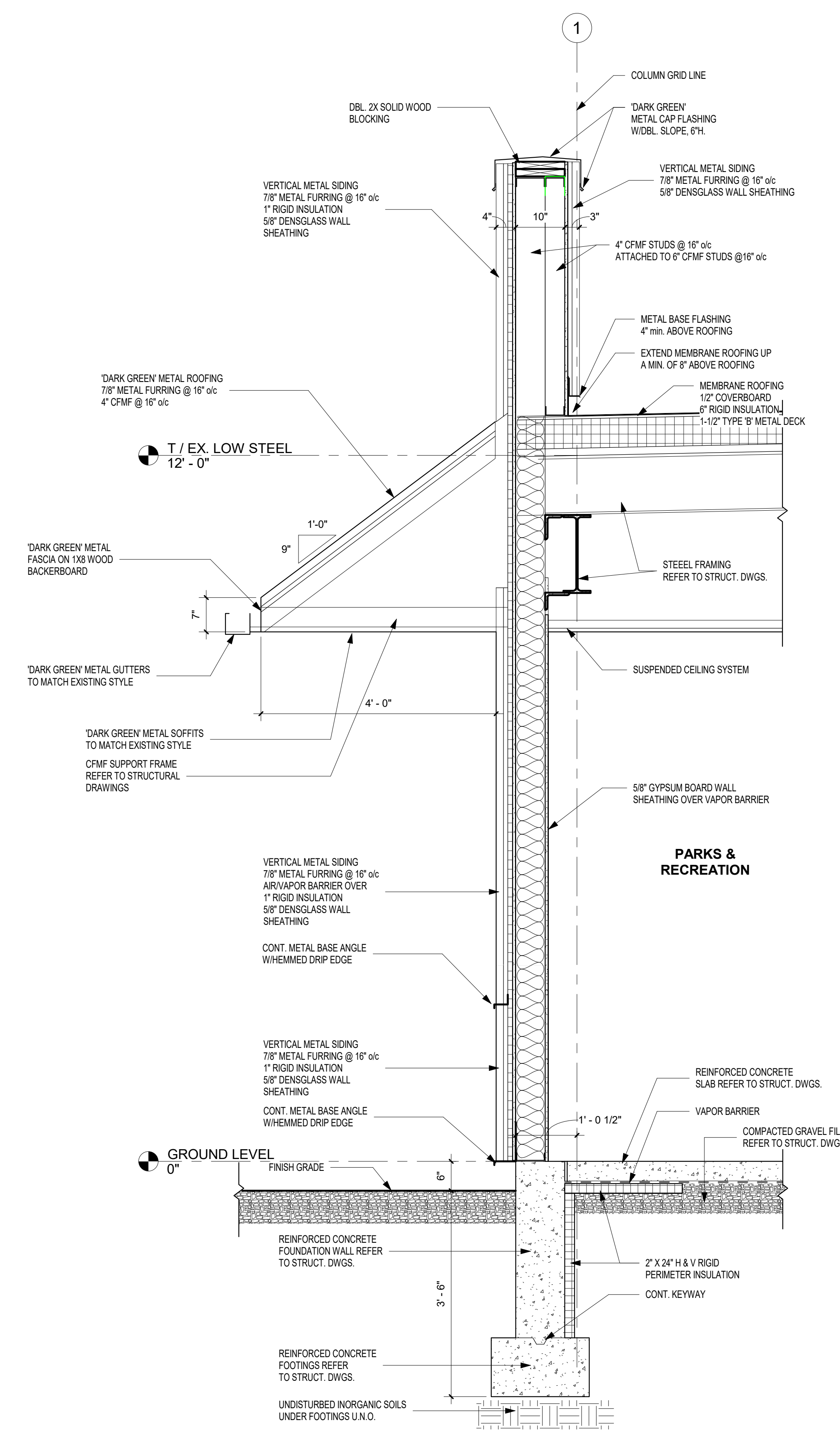
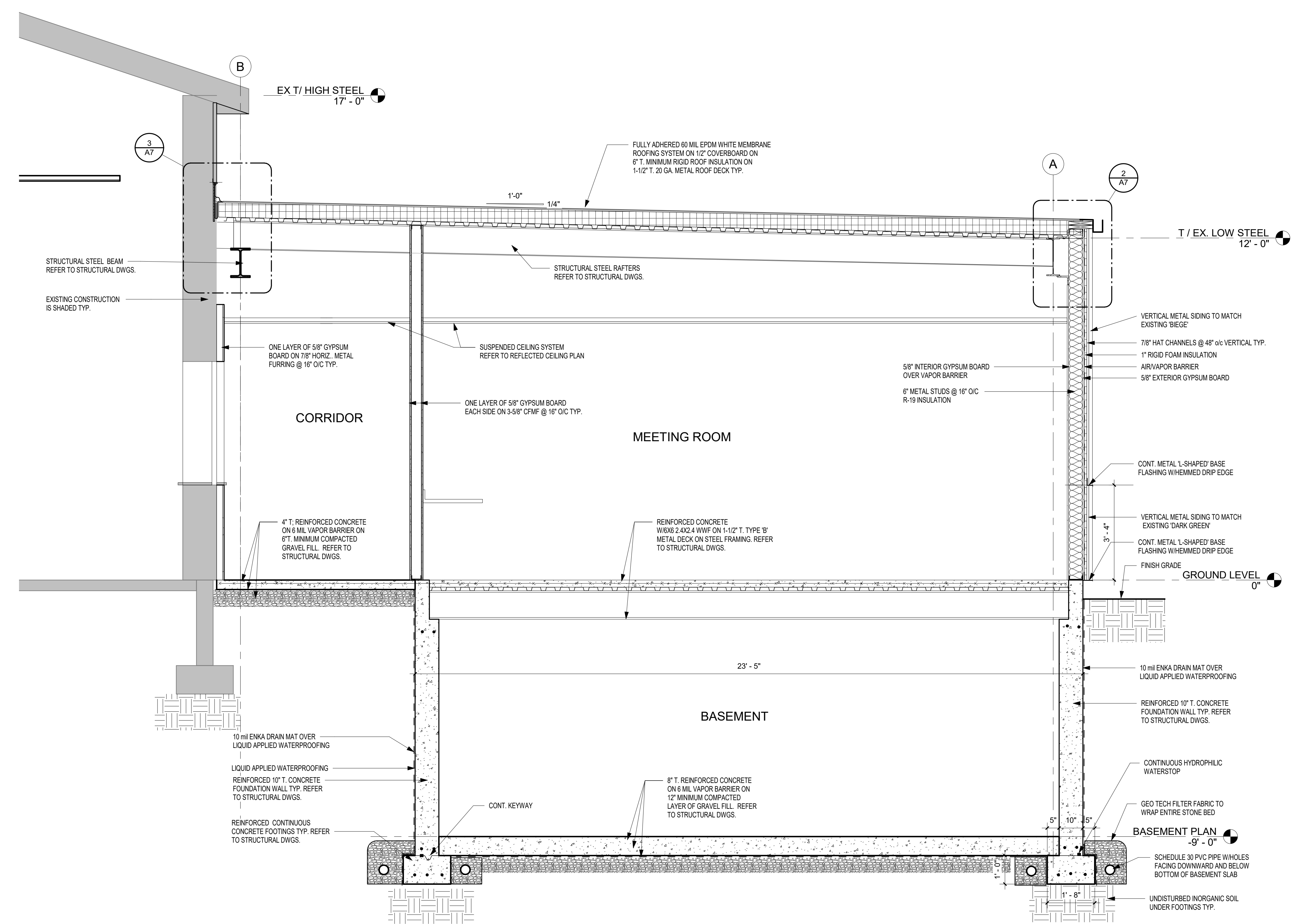


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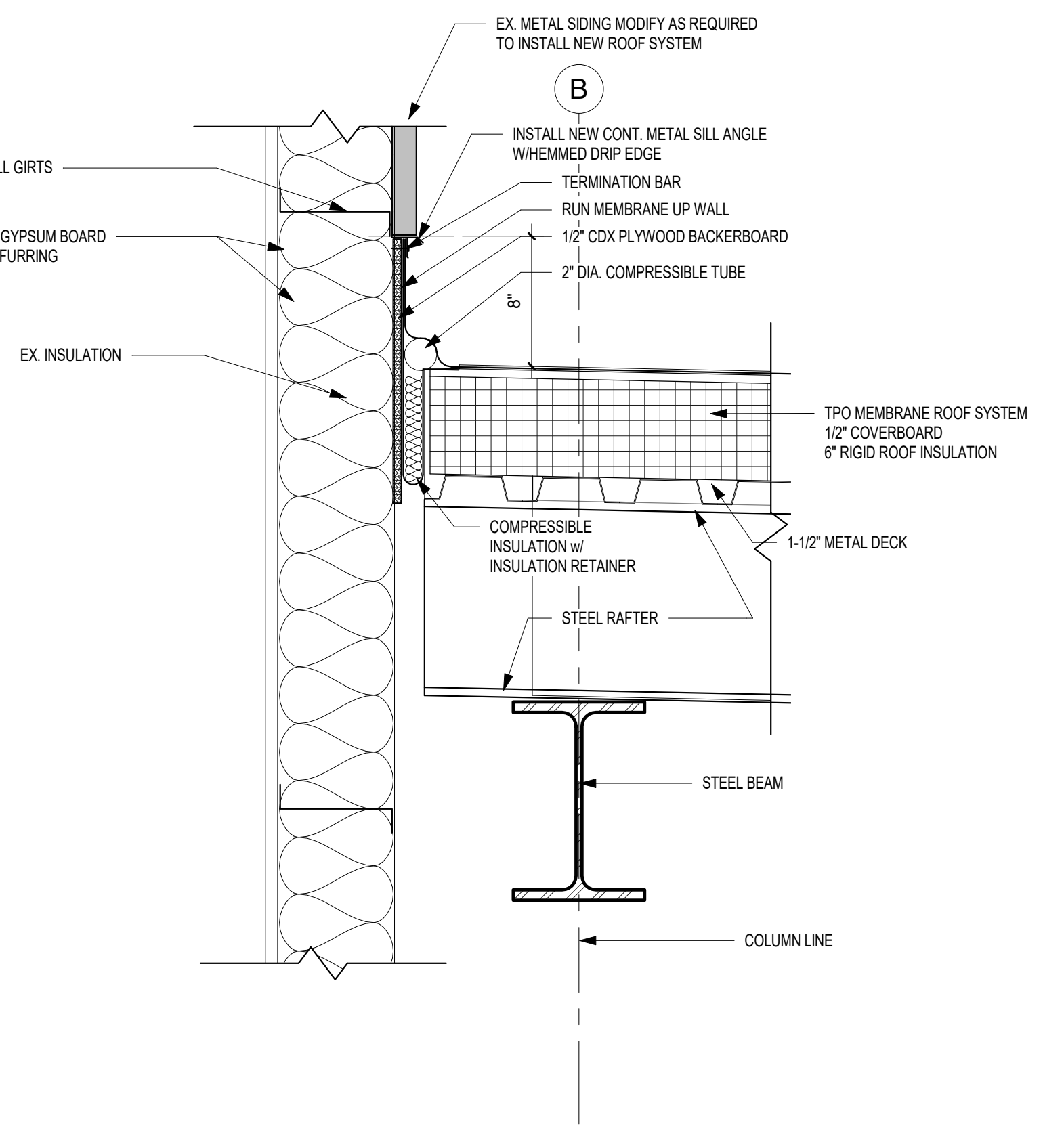
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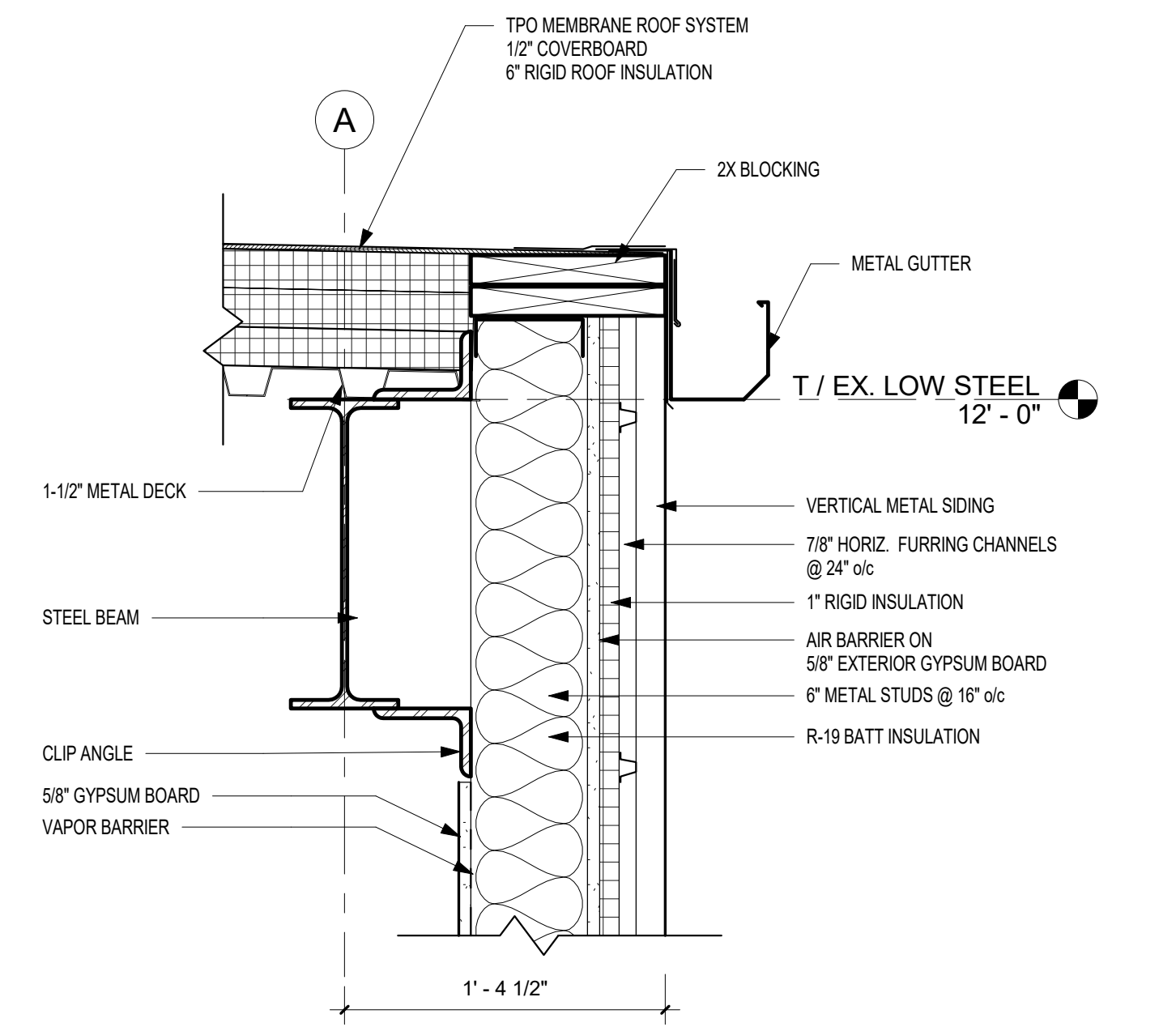


**1** BUILDING SECTION A  
1/2" = 1'-0"

**4** WALL SECTION 01  
3/4" = 1'-0"



**3** WALL/ROOF DETAIL 01  
1 1/2" = 1'-0"



**2** EAVE DETAIL 01  
1 1/2" = 1'-0"

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**BUILDING & WALL SECTIONS & DETAILS**

**A7**

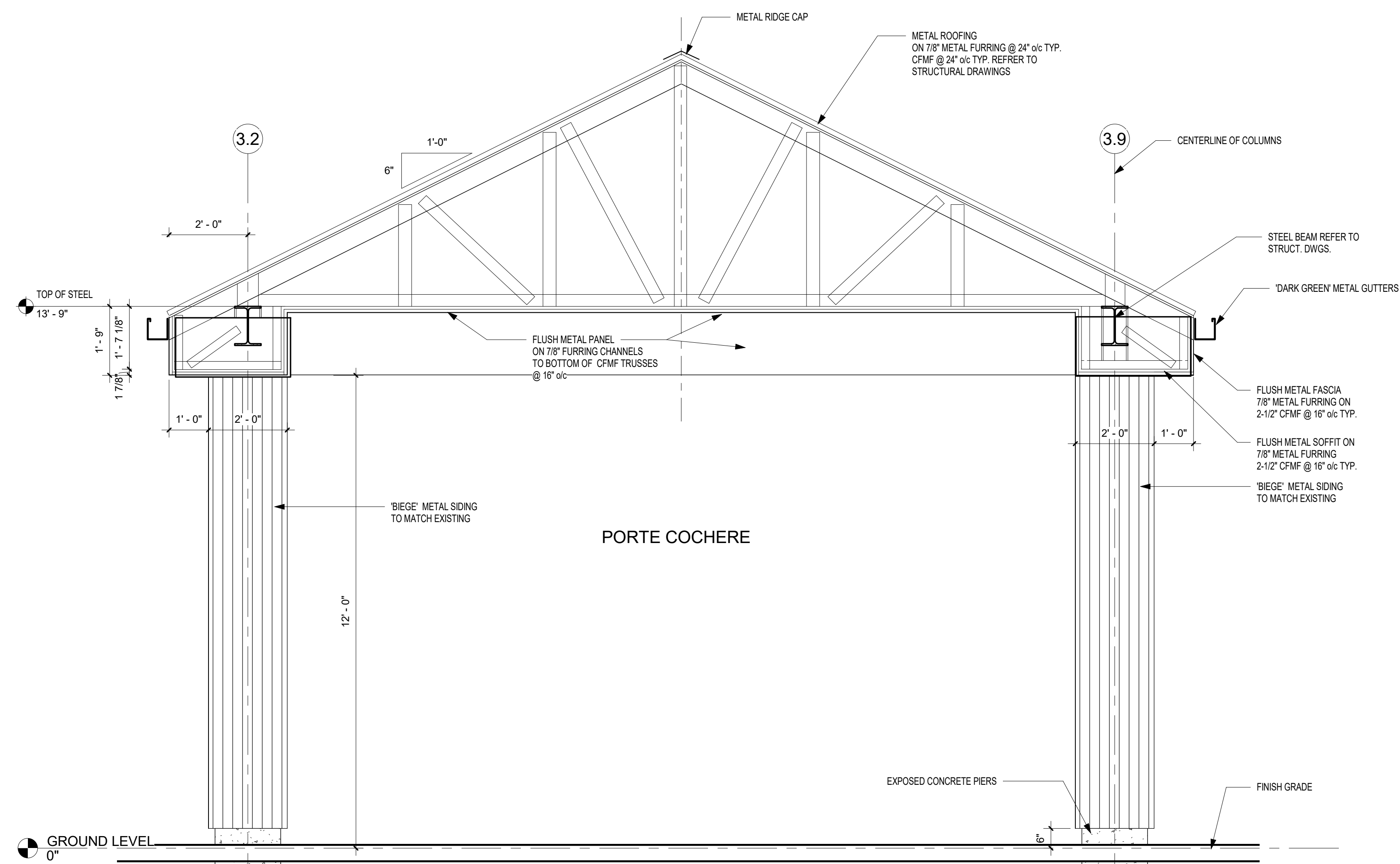


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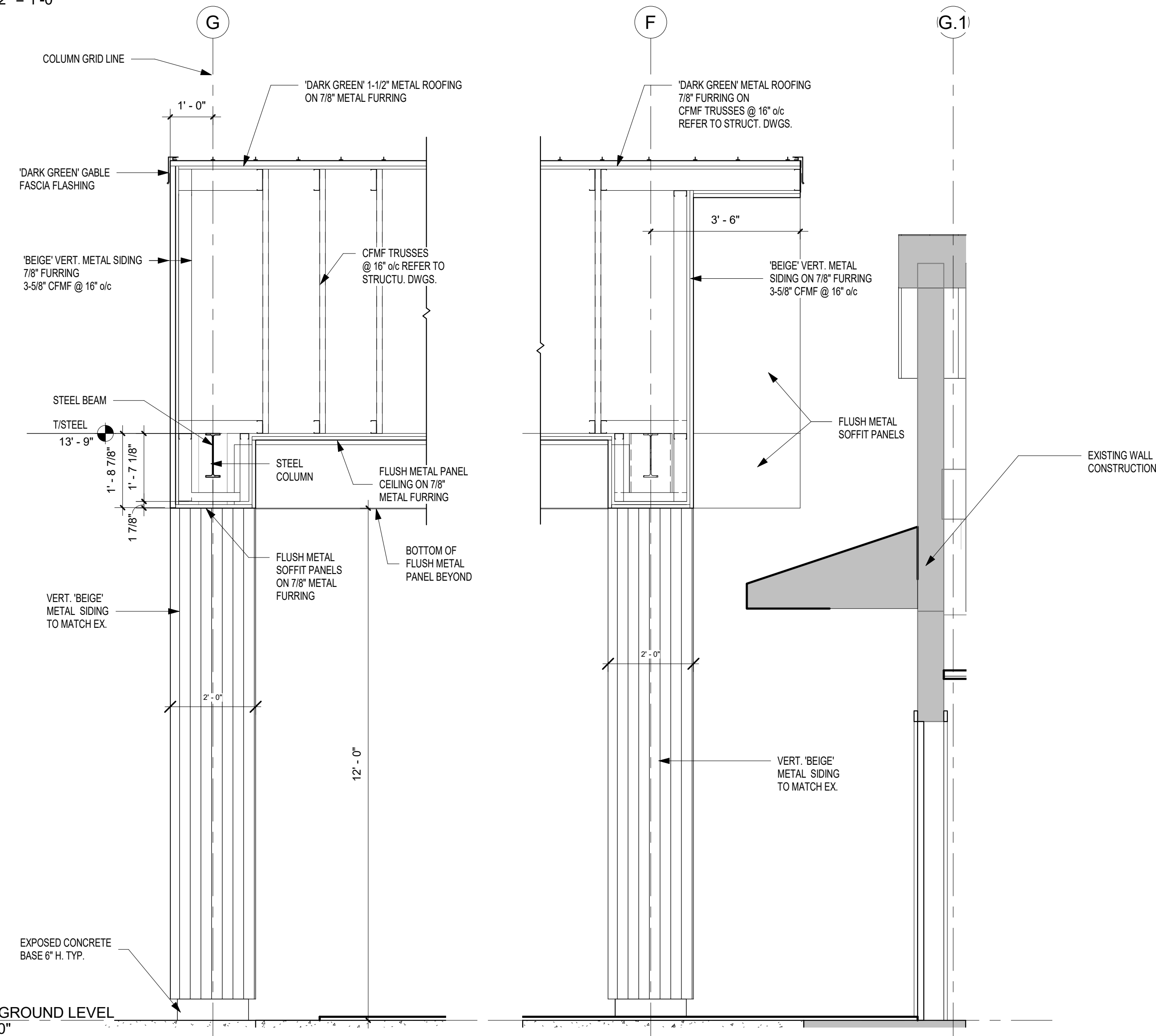
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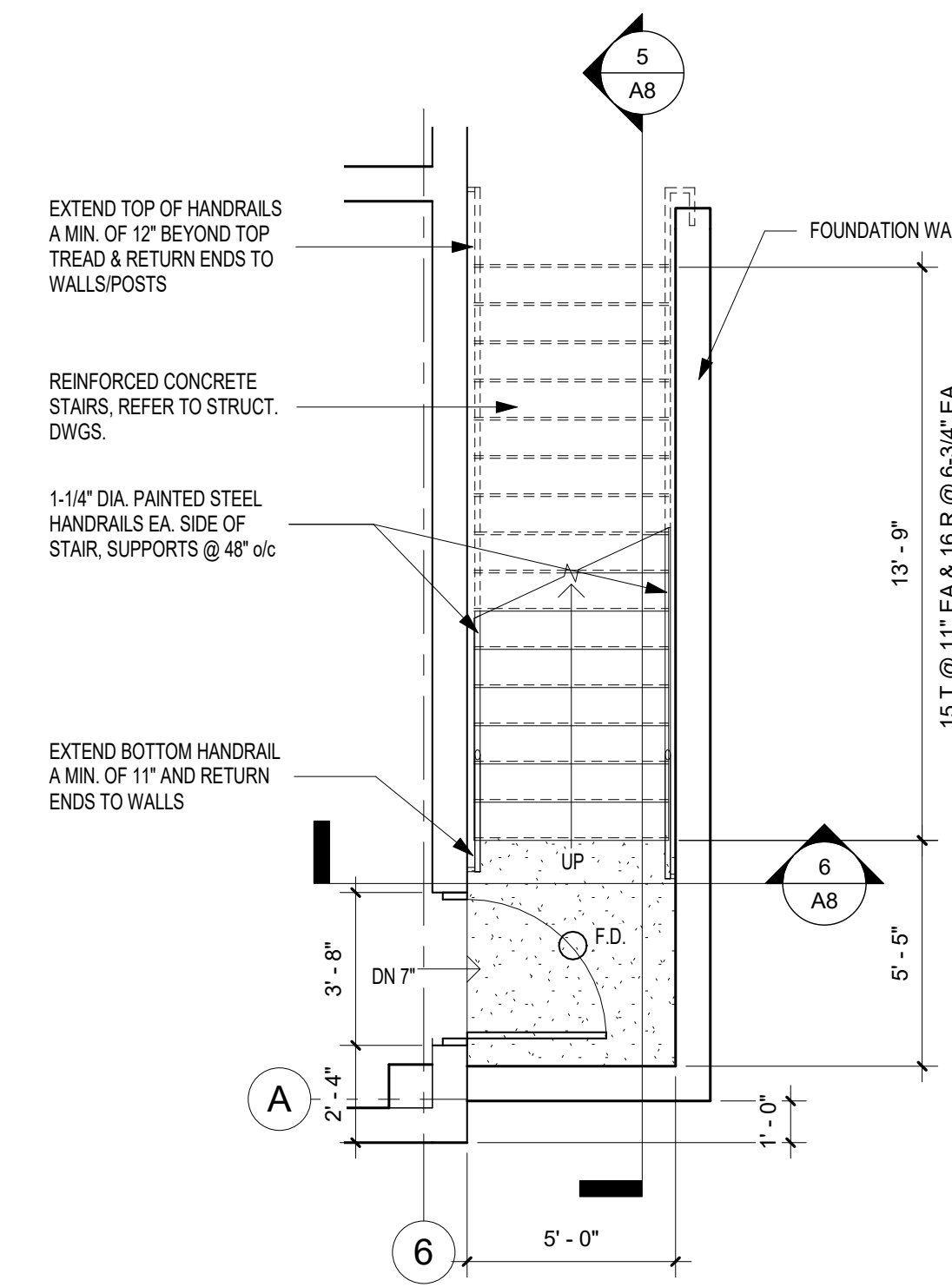
The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.



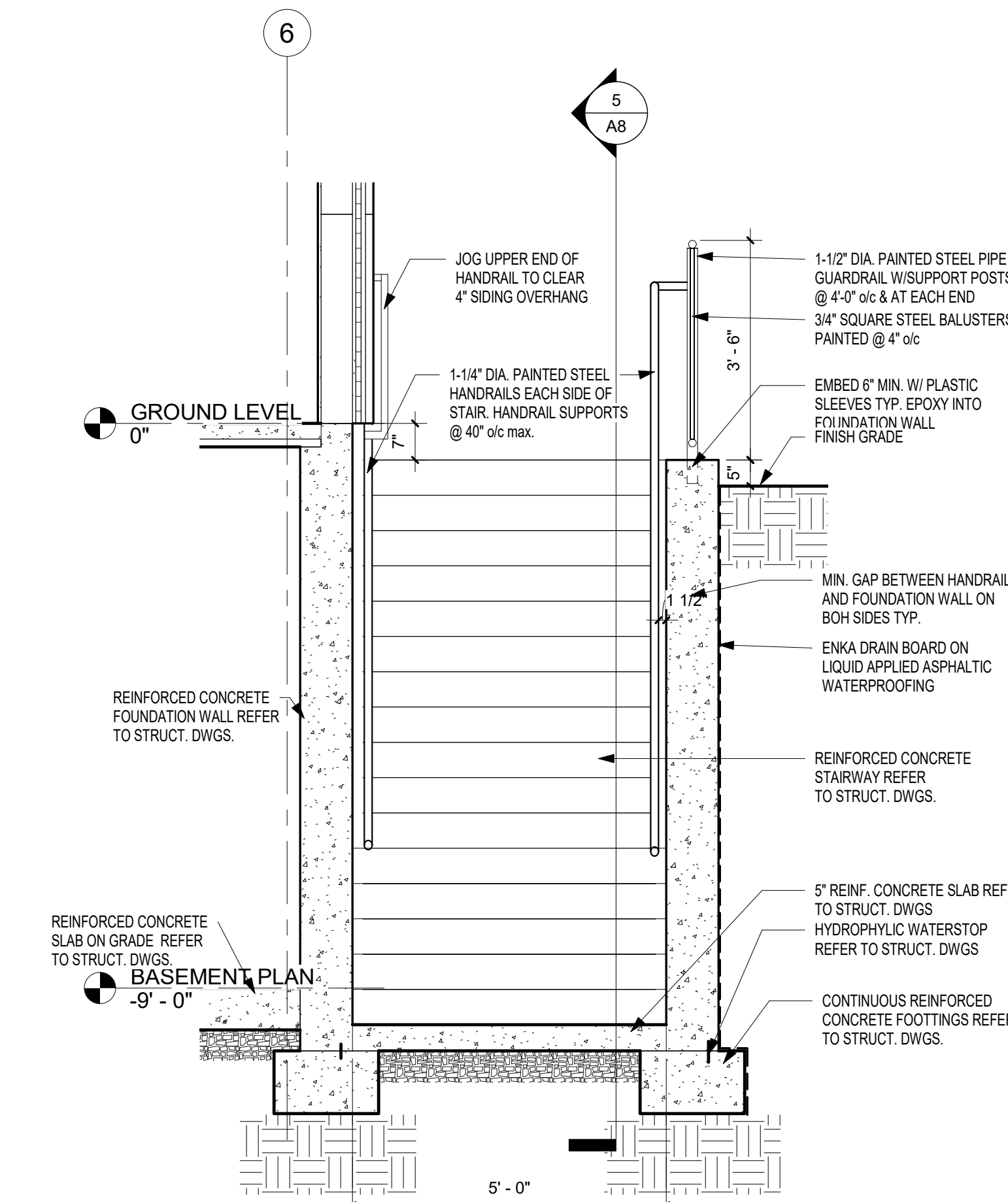
1 SECTION A PORTE COCHERE  
1/2" = 1'-0"



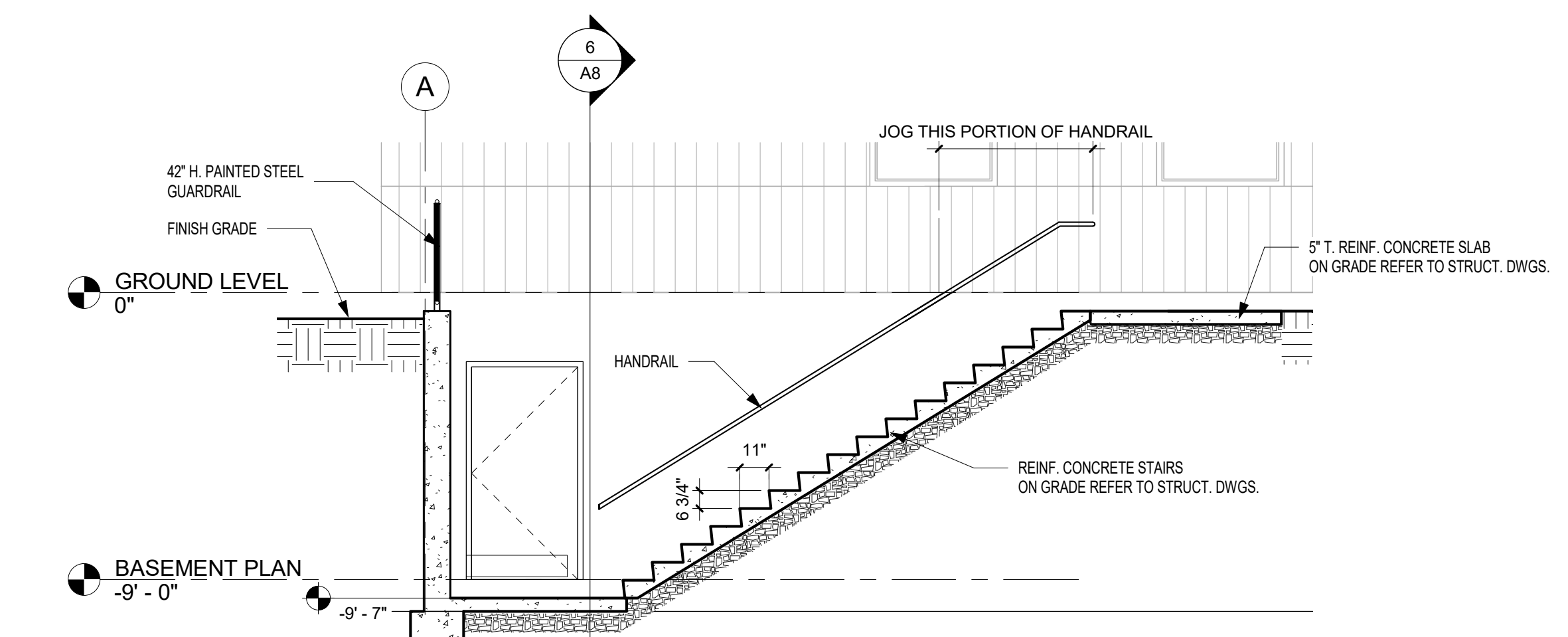
2 SECTION B THRU CAR PORT  
1/2" = 1'-0"



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



6 SECTION THRU EXTERIOR STAIR  
1/2" = 1'-0"



5 SECTION THRU EXTERIOR STAIR  
1/4" = 1'-0"

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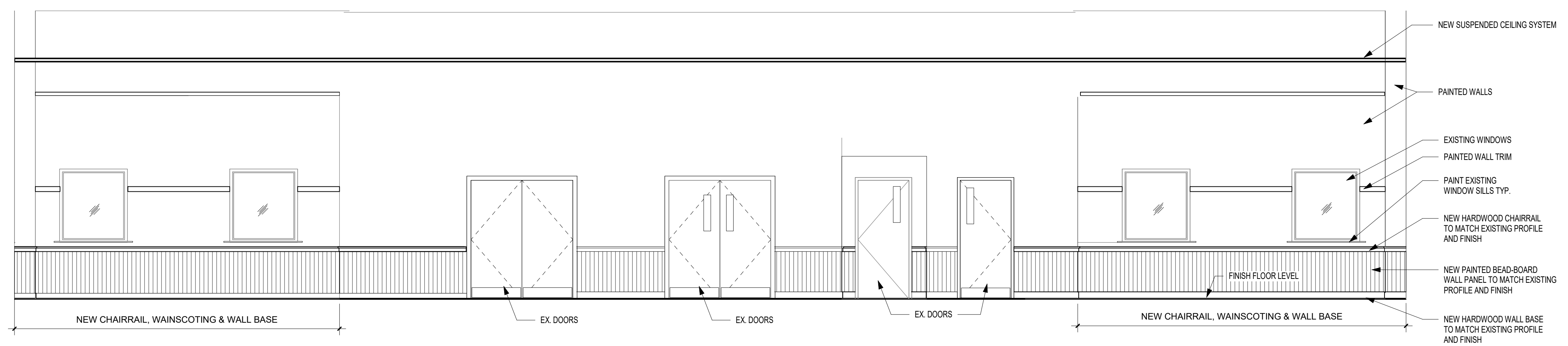
REVISION DATE:

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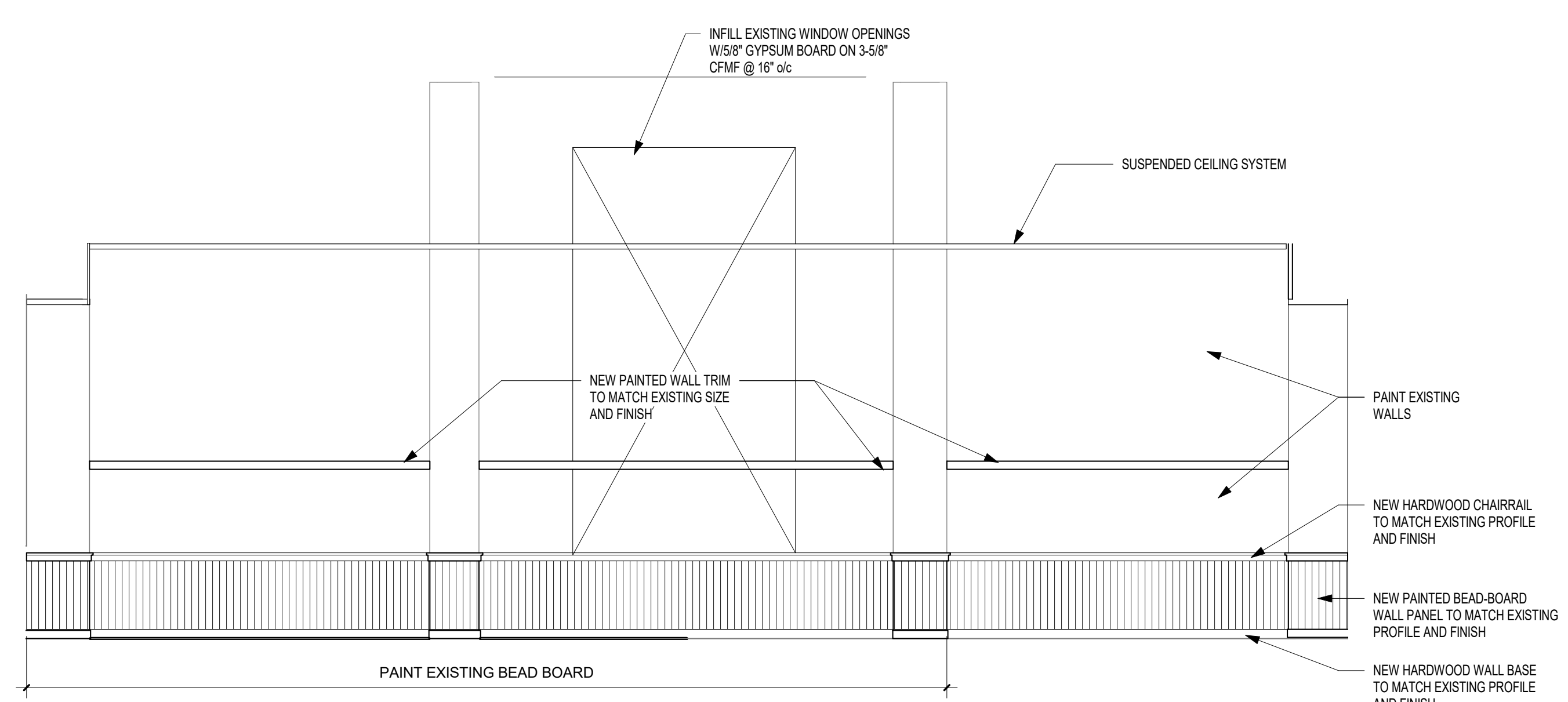
SECTIONS THRU  
PORTE  
COCHERE &  
STAIR

A8

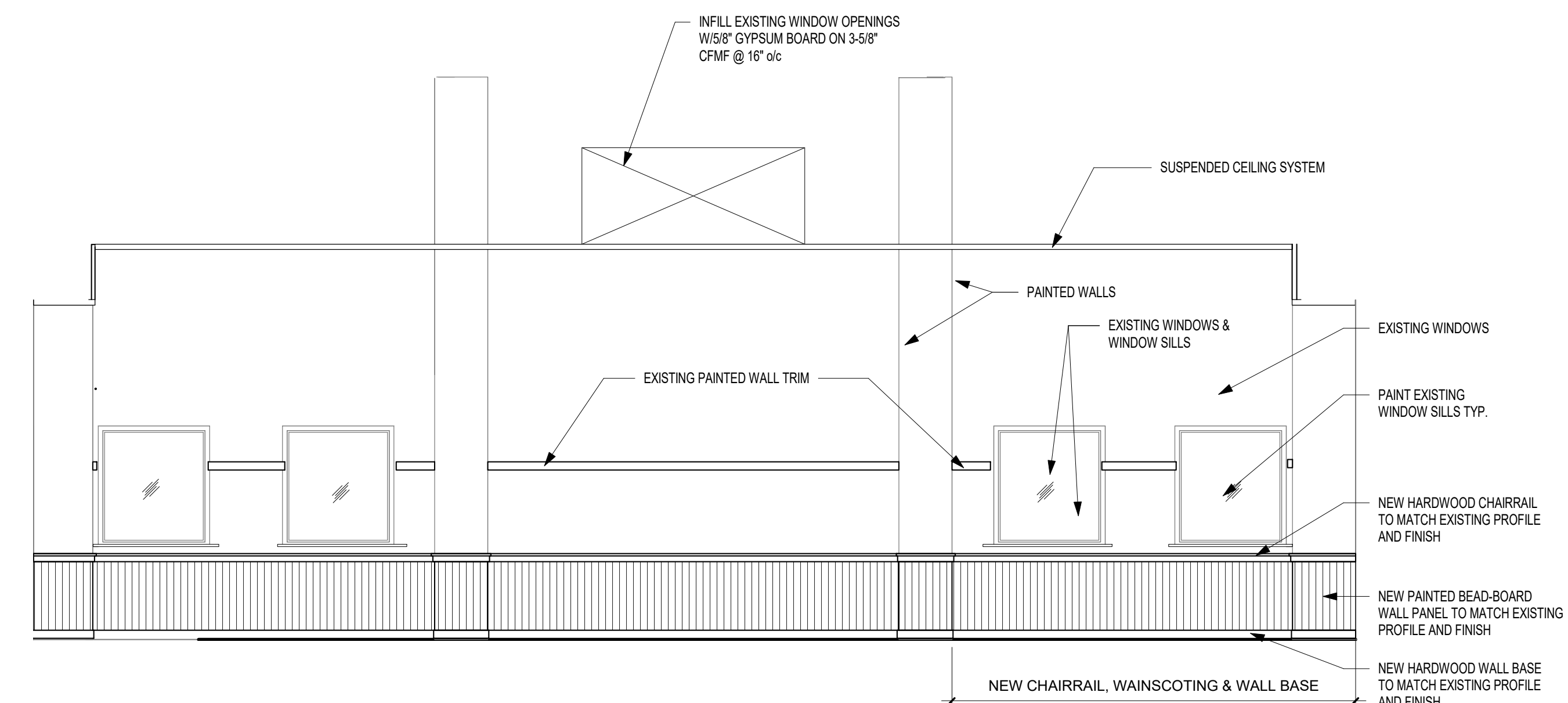




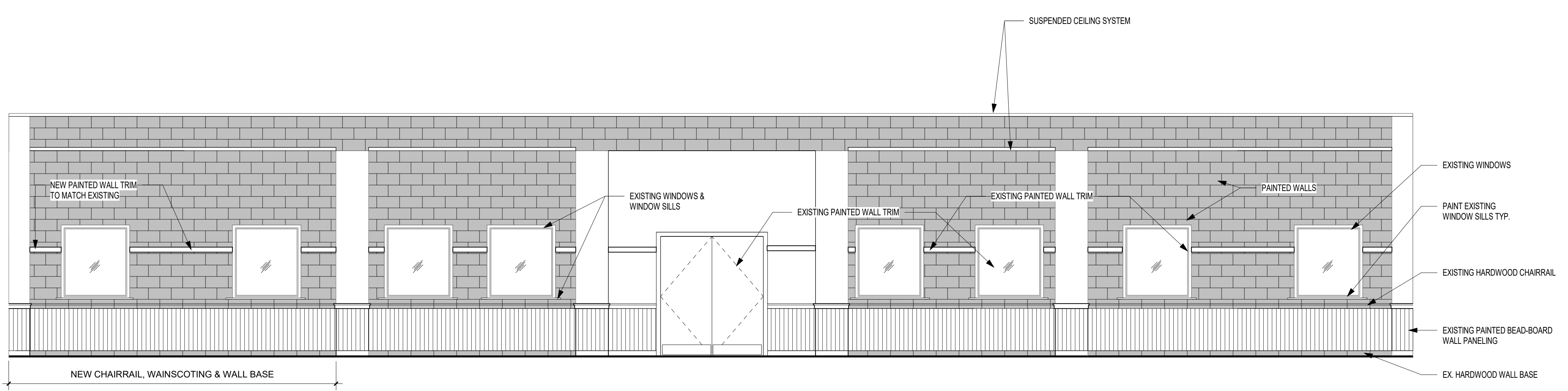
1 ROOM 134 NORTH ELEVATION  
1/4" = 1'-0"



2 ROOM 134 EAST ELEVATION  
1/4" = 1'-0"



4 ROOM 134 WEST ELEVATION  
1/4" = 1'-0"



3 ROOM 134 SOUTH ELEVATION  
1/4" = 1'-0"

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INTERIOR  
ELEVATIONS





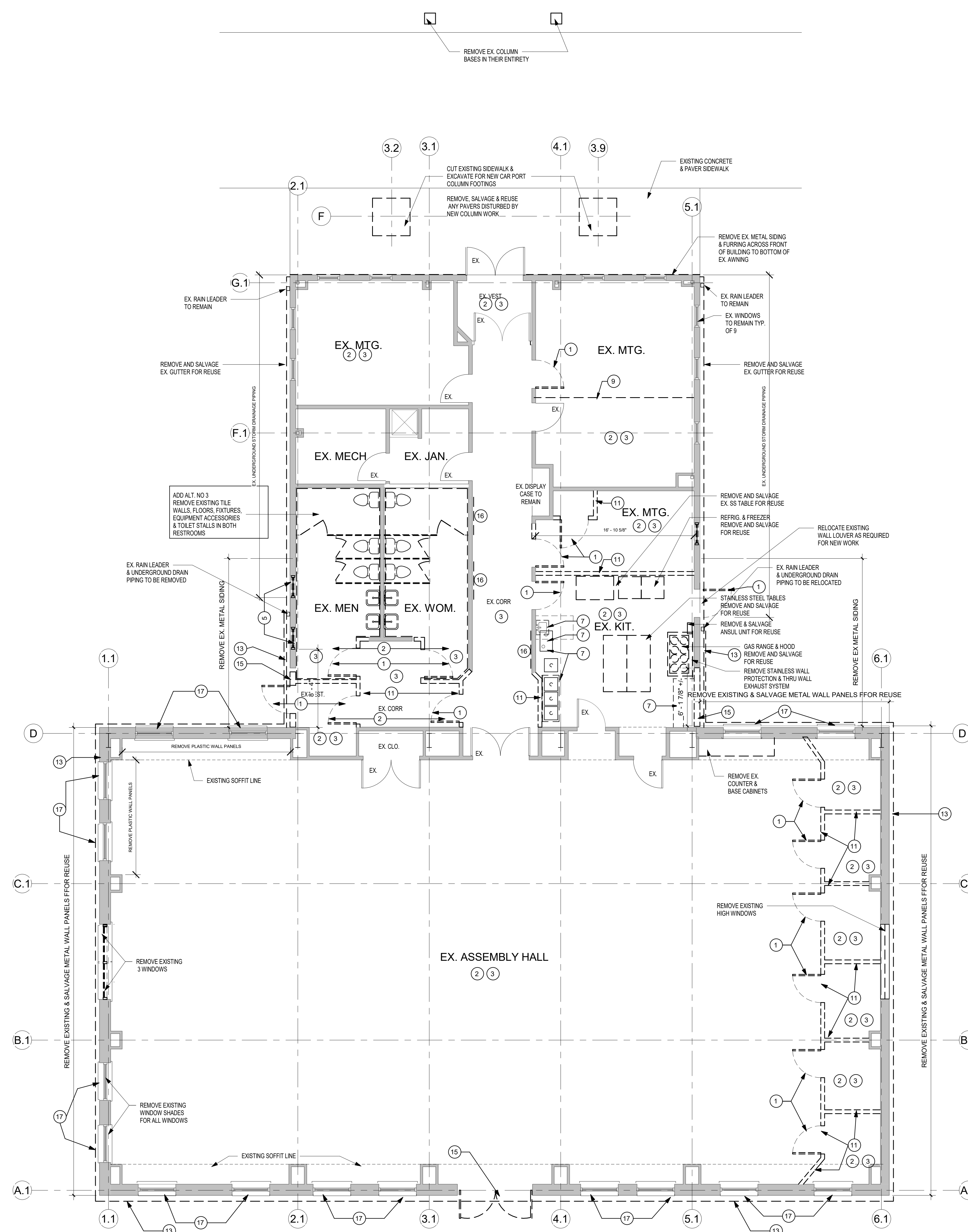


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**DEMOLITION NOTES**

1. CONTRACTOR TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO START OF DEMOLITION WORK. DOCUMENTS ARE BASED ON FIELD MEASUREMENTS, PHOTOGRAPHS, AND VISUAL INSPECTION. ACTUAL CONDITIONS MAY VARY FROM THOSE SHOWN. DOCUMENT & REPORT ANY VARIATIONS OR DISCREPANCIES TO ARCHITECT & OWNER FOR RESOLUTION PRIOR TO START OF DEMOLITION WORK. FAILURE TO REPORT DISCREPANCIES WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETE COORDINATION OF ALL ASPECTS OF THE WORK.
2. DEMOLITION WORK INDICATED IN DOCUMENTS IS A GENERAL REPRESENTATION OF PROJECT SCOPE, AND IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL SELECTIVE DEMOLITION WORK REQUIRED. ALL INCIDENTAL WORK REQUIRED TO ACCOMPLISH THE WORK IS PART OF THE CONTRACT WORK, REGARDLESS OF WHETHER IT IS SHOWN IN THE DOCUMENTS.
3. NUMBERED DEMOLITION KEYNOTES INDICATE TYPE OF WORK TO BE PERFORMED WITHIN EACH AREA WHERE KEYNOTE SYMBOL APPEARS. CONTRACTOR TO VERIFY EXTENT OF ALL WORK IN FIELD AND BRING ANY QUESTIONS ON SCOPE TO ATTENTION OF ARCHITECT AND OWNER FOR RESOLUTION.
4. PROTECT ALL CONSTRUCTION TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR/REPLACE CONSTRUCTION TO REMAIN DAMAGED DURING DEMOLITION TO MATCH THE QUALITY OF THE NEW WORK.
5. REFER MEP AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES ON MEP AND FIRE PROTECTION EQUIPMENT.
6. ALL EXISTING FIRE-RATED PROTECTION SYSTEMS CURRENTLY IN PLACE AND RELATED TO THE STRUCTURAL FRAME, BEAMS, COLUMNS AND METAL DECKING SYSTEMS ARE TO REMAIN INTACT WHERE POSSIBLE AND THOSE PORTIONS OF THESE PROTECTION SYSTEMS THAT ARE REMOVED SHALL BE QUANTIFIED IN THE FIELD FOR REPLACEMENT.
7. REMOVE & SALVAGE EXISTING VERTICAL METAL SIDING AND RAIN LEADERS FOR REUSE. TYPICAL AROUND BUILDING AT NEW ADDITION.
8. REMOVE EXISTING PAINTED 2X WOOD CHAIRRAILS, PICTURE RAILS & DECORATIVE TRIM THROUGHOUT EXISTING ROOMS.

**NUMBERED DEMOLITION NOTES**

1. REMOVE EXISTING DOOR, FRAME, HARDWARE AND THRESHOLDS WHERE APPLICABLE.
2. REMOVE EXISTING FLOOR FINISH AND WALL BASE.
3. REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY.
4. REMOVE EXISTING PLASTIC WALL PANELS.
5. REMOVE EXISTING WINDOWS IN THEIR ENTIRETY. LEAVE WINDOW SILLS TO REMAIN.
6. REMOVE A PORTION OF THE EXISTING CONCRETE SLAB AS REQUIRED TO RECEIVE NEW WORK. REFER TO MEP & STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. REMOVE & SALVAGE EXISTING KITCHEN PLUMBING FIXTURES, EQUIPMENT, GREASE TRAP, CASEWORK, AND RELATED SYSTEMS. SALVAGE GAS RANGE & HOOD FOR REUSE.
8. REMOVE EXISTING INTERIOR AND EXTERIOR LIGHT FIXTURES AND ALL RELATED WIRING, SWITCHES AND EQUIPMENT. SEE MEP DRAWINGS FOR ADDITIONAL FORMATION.
9. REMOVE EXISTING FOLDING PARTITION IN ITS ENTIRETY.
10. SAW CUT AND REMOVE PORTION OF EXISTING EXTERIOR CONCRETE WALKS TO RECEIVE NEW WORK.
11. REMOVE EXISTING INTERIOR GYPSUM BOARD AND COLD-FORMED METAL STUD PARTITIONS. WALL SYSTEMS UNLESS INDICATED OTHERWISE.
12. NEW MECHANICAL, PLUMBING & ELECTRICAL ROOF PENETRATIONS VERIFY LOCATIONS W/MEP DWGS.
13. REMOVE EXISTING UNDERGROUND STORM DRAIN PIPING INCLUDING RAIN LEADERS AND CONNECTING PIPING.
14. REMOVE PORTION OF EXISTING EXTERIOR WALLS IN AREAS TO RECEIVE NEW WORK.
15. REMOVE EXISTING DOORS, FRAME & TRANSOM.
16. REMOVE EXISTING BULLETIN BOARDS & SALVAGE FOR REUSE.
17. REMOVE EXISTING MASONRY WINDOW SILLS.

**D01 DEMOLITION PLAN**  
3/16" = 1'-0"

- DEMOLITION LEGEND**
- EXISTING WALL AND PARTITION CONSTRUCTION TO REMAIN
  - - - EXISTING CONSTRUCTION TO BE REMOVED

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**DRAWING**  
**DEMOLITION PLAN**

**AD1**



## CODES AND STANDARDS

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONNECTICUT STATE BUILDING CODE (2021 INTERNATIONAL BUILDING CODE) EFFECTIVE OCTOBER 1, 2022 ALONG WITH AMENDMENTS.
- THE LATEST EDITION OF THE FOLLOWING CODES SHALL APPLY TO THE WORK:
  - ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
  - ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS"
  - AISC ASD, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN"
  - AWIS D1.1, "STRUCTURAL WELDING CODE"
  - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

## GENERAL NOTES

- THE STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSE WORK, FORM WORK, STAGING, BRACING, SHEETING, SHORING, ETC. LACK OF COMMENT BY THE ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE ASPECTS OF WORK.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND OTHER PROJECT DRAWINGS.
- SOME DETAILS OF THE WORK ARE SHOWN ON THE PREENGINEERING METAL BUILDING DWGS. A CAREFUL REVIEW OF THESE DRAWINGS AND DETAILS WITH THE STRUCTURAL DRAWINGS ARE NECESSARY BEFORE THE FULL SCOPE OF THE WORK CAN BE UNDERSTOOD. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS AND/OR QUANTITIES AND FOR THE COORDINATION OF STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES. REVIEW OF THE CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE CONTRACTOR FROM THESE RESPONSIBILITIES.
- IF FAULTY CONSTRUCTION PROCEDURES OR MATERIALS RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING SERVICES TO REVERSE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE FOR THE ADDITIONAL SERVICES.
- HOLES OF ANY SIZE SHALL NOT BE DRILLED INTO STRUCTURAL MEMBERS, EXCEPT AS SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE ACCEPTANCE OF THE ENGINEER.
- IT IS INTENDED THAT ALL MEMBERS BE FABRICATED AND ERECTED FREE OF SHOP AND FIELD SPLICES UNLESS OTHERWISE SHOWN. IF FIELD CONDITIONS NECESSITATE THE NEED FOR FIELD SPLICING OF MEMBERS, SUBMIT LOCATIONS FOR ENGINEER'S ACCEPTANCE.

## DESIGN LOADS / CRITERIA

- FLOOR LIVE LOADS

LOCATION	LIVE LOAD
ROOF	20 PSF
STAIRS, CORRIDORS, PUBLIC ROOMS	100 PSF

- ROOF SNOW LOAD:

- GROUND SNOW LOAD =  $P_g = 30$  PSF (EAST WINDSOR, CT)
- FLAT ROOF SNOW LOAD =  $P_f = 0.7(C_e)(C_t)(I)(P_g) = 23.1$  PSF - USE 30 PSF MIN.
- SNOW EXPOSURE FACTOR =  $C_e = 1.0$
- SNOW LOAD IMPORTANCE FACTOR =  $I = 1.0$
- THERMAL FACTOR =  $C = 1.1$

- WIND LOAD (ASCE 7 - METHOD 1):

- BASIC WIND SPEED FOR RISK CAT. II =  $V = 130$  MPH (EAST WINDSOR, CT)
- WIND EXPOSURE = B

EFFECTIVE WIND AREA	WALL / ROOF POSITIVE WIND PRESSURE	WALL NEGATIVE WIND PRESSURE (ZONES 4 & 5 - SUCTION)	ROOF NEGATIVE WIND PRESSURE (ZONES 1 / 2 / 3 - SUCTION)
10 SQUARE FEET	30.4 / 12.4 PSF	-33.0 / -40.7 PSF	-30.4 / -51.0 / -76.8 PSF
20 SQUARE FEET	29.0 / 11.6 PSF	-31.6 / -38.0 PSF	-29.6 / -45.6 / -63.6 PSF
50 SQUARE FEET	27.2 / 10.6 PSF	-29.8 / -34.3 PSF	-28.6 / -38.4 / -46.2 PSF
100 SQUARE FEET	25.9 / 9.8 PSF	-28.4 / -31.6 PSF	-27.8 / -33.0 / -33.0 PSF
500 SQUARE FEET	22.7 / - PSF	-25.2 / -25.2 PSF	- / - / -

- SEISMIC LOAD (ASCE 7 - EQUIVALENT LATERAL FORCE PROCEDURE)

- SEISMIC IMPORTANCE FACTOR =  $I_e = 1.0$
- SPECTRAL RESPONSE ACCELERATIONS:  $S_s = 0.177$ ,  $S_1 = 0.055$  (EAST WINDSOR, CT)
- SOIL SITE CLASS = D (ASSUMED)
- SEISMIC DESIGN CATEGORY = B
- BASIC SEISMIC-FORCE-RESISTING-SYSTEMS:
- ORDINARY STRUCTURAL STEEL MOMENT FRAMES - R=3.5

## FOUNDATION NOTES

- THE FOUNDATIONS HAVE BEEN DESIGNED TO REST ON CONTROLLED STRUCTURAL FILL OVER VIRGIN SOILS HAVING AN ALLOWABLE BEARING CAPACITY OF 4000 PSF ASSUMED (FIELD VERIFY). SUCH BEARING STRATA IS ANTICIPATED AT THE BOTTOM OF FOOTING ELEVATIONS NOTED ON THE FOUNDATION PLAN. BOTTOM OF FOOTING PREPARATION SHALL BE ON A 6-INCH LAYER OF 3/8" CRUSHED STONE ATOP A GEOTEXTILE BENEATH ALL FOOTING COMPACTED SELECT-FILL AND SHALL EXTEND OF THE FOOTING A DISTANCE EQUAL TO THE DEPTH BELOW THE FOOTING. NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION.
- CONSTRUCTION OF NEW FOOTINGS SHALL ENSURE NO STANDING WATER IS PRESENT IN THE BOTTOM OF THE FOOTING EXCAVATION DURING CONCRETE PLACEMENT. NO FOOTINGS SHALL BE CONSTRUCTED ON FROZEN GROUND, AND/OR LOOSE/SOFT SOILS. ALL SUCH SOILS SHALL BE REMOVED AND REPLACED WITH CLEAN CRUSHED STONE OR ADDITIONAL CONCRETE.
- THE BOTTOM OF EXTERIOR FOOTINGS AND INTERIOR FOOTINGS IN UNHEATED SPACES SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE FOR FROST PROTECTION.
- ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST HEAVE DURING THE COURSE OF CONSTRUCTION.
- STEP FOOTINGS WHERE ELEVATIONS CHANGE AT A MAXIMUM SLOPE OF ONE VERTICAL PER TWO HORIZONTAL AND PLACE LOWER FOOTINGS FIRST.
- FOUNDATION WALLS SHALL BE TEMPORARILY BRACED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE DURING CONSTRUCTION OPERATIONS. COORDINATE TEMPORARY SHORING, BRACING, AND STRUCTURAL SUPPORT WITH PROPOSED CONSTRUCTION.
- IN AREAS REQUIRING FILL THE FILL MATERIAL SHALL BE A UNIFORMLY GRADED MIXTURE OF SAND AND GRAVEL. BACKFILL SHALL BE PLACED IN MAXIMUM LIFTS OF 9-INCHES BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM OF 95% OF ITS MAXIMUM DENSITY AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). A SOILS TESTING LAB SHALL TEST THE FILL MATERIAL BEFORE AND AFTER COMPACTION FOR CONFORMANCE WITH THIS SPECIFICATION. DO NOT PLACE LIFTS WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE FILL CANNOT BE PROPERLY CONTROLLED.
- DO NOT DAMAGE NOR DISPLACE CONCRETE WORK ALREADY IN PLACE BY CONTACT FROM COMPACTION MACHINERY BY SUBJECTING IT TO OVERTURNING FROM HEAVY COMPACTING LOADINGS OR ANY OTHER CAUSE WHEN PLACING AND COMPACTING FILL AND BACKFILL MATERIAL.
- THE SUB-BASE BELOW SLABS-ON-GRADE SHALL BE AS INDICATED ON DRAWINGS. THE MATERIAL SHALL BE FREE FROM SOFT DISINTEGRATED PIECES, MUD, DIRT, ORGANICS, OR OTHER INJURIOUS MATERIALS.
- PROVIDE A VAPOR BARRIER BENEATH SLABS-ON-GRADE CONFORMING TO ASTM E 1745 (CLASS A) MINIMUM SUCH AS 10-MIL STEGO WRAP BY STEGO INDUSTRIES (www.stegoindustries.com).

## CAST-IN-PLACE CONCRETE NOTES

- PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES IN THE LOCATIONS INDICATED:

LOCATION	STRENGTH (F'c)	AGGREGATE	WATER CONTENT
FOOTINGS AND FOUNDATION WALLS	4000 PSI	NORMAL WEIGHT	0.45 MAX.
PIERS AND PILASTERS	4000 PSI	NORMAL WEIGHT	0.45 MAX.
SLAB-ON-GRADE	5000 PSI	NORMAL WEIGHT	0.45 MAX.
ELEVATED SLABS	4000 PSI	LIGHT WEIGHT	0.45 MAX.

- ALL CONCRETE FOUNDATIONS SHALL BE AIR-ENTRAINED. DO NOT AIR ENTRAIN SLABS-ON-GRADE. MAIN BUILDING LAB SHALL BE TREATED WITH A CONCRETE HARDENER.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH A MINIMUM YIELD STRENGTH OF 75 KSI. LAP WIRE MESH A MINIMUM OF 8-INCHES AND WIRE TOGETHER.
- ALL DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING STEEL SHALL COMPLY WITH THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE PER SECTION 7.7.1 OF ACI 318, UNLESS OTHERWISE INDICATED OR SHOWN.
- UNLESS OTHERWISE INDICATED, REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7-DAYS BY USING A CURING COMPOUND CONFORMING TO ASTM C-309 OR BY WET BURLAP OR A PLASTIC MEMBRANE.
- WELDING OF REINFORCING BARS IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER.
- REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS OF BAR EMBEDMENT LENGTHS AND BAR SPLICE LENGTHS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.
- LOCATION OF CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS, CONFORMANCE WITH ACI 318, AND THE ACCEPTANCE OF THE ENGINEER.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A82.

## METAL DECK NOTES

- STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION OF THE STEEL DECK INSTITUTE.
- FORMED STEEL ROOF DECK (REFER TO PLAN):
  - 1.5 B-DECK, 20 GAGE, GALVANIZED PER ASTM A653-G90 BY VULCRAFT (OR APPROVED EQUIVALENT). FASTEN METAL FLOOR DECK IN A 36/4 PATTERN WITH 3/4" PUDDLE WELDS. FASTEN SIDE LAPS WITH 2 CONNECTORS PER SPAN. PERIMETER OF DECKING SHALL BE FASTENED TO FRAMING AT A MAXIMUM OF 12" o.c.
- FORMED STEEL FLOOR DECK (REFER TO PLAN FOR LOCATION OF EACH TYPE):
  - 1-1/2" INVERTED B-LQK, 20 GAGE, COMPOSITE FLOOR DECK, GALVANIZED PER ASTM A653-G90 BY VULCRAFT (OR APPROVED EQUIVALENT). FASTEN METAL FLOOR DECK IN A 36/4 PATTERN WITH 3/4" PUDDLE WELDS. FASTEN SIDE LAPS WITH 2 CONNECTORS PER SPAN. PERIMETER OF DECKING SHALL BE FASTENED TO FRAMING AT A MAXIMUM OF 12" o.c.
- STEEL DECK SHALL BE SUPPLIED IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A "3-SPAN" CONDITION. END CLOSURES, ROOF SUMPS, CLOSURES AT PENETRATIONS, AND ALL OTHER ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION ARE REQUIRED.
  - METAL CLOSURE STRIPS SHALL BE 18 GAUGE MINIMUM GALVANIZED SHEET STEEL OF THE SAME QUALITY AS THE DECK UNITS. FORM CLOSURE STRIPS TO THE CONFIGURATION REQUIRED TO PROVIDE TIGHT-FITTING CLOSURES AT OPEN ENDS OF FLUTES, BETWEEN DECK AND SUPPORTING BEAMS, AT OPEN DECK ENDS, AND AT SIDES OF DECKING.
- FASTEN DECK TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- STEEL DECKING MUST BE PROTECTED BEFORE AND AFTER ERECTION AND ALL DEBRIS CLEANED FROM ITS SURFACE WHERE CONCRETE WILL BE POURED OR ROOFING IS TO BE PLACED.
- REINFORCEMENT AT OPENINGS: PROVIDE ADDITIONAL METAL REINFORCEMENT AND CLOSURE PIECES AS REQUIRED FOR STRENGTH, CONTINUITY OF DECKING, AND SUPPORT OF OTHER WORK. UNFRAMED OPENINGS LARGER THAN 6-INCHES SHALL BE REINFORCED TO THE EXTENT REQUIRED, BUT NOT LESS THAN:
  - HOLES 6" TO 12" - 16 GAUGE FLAT STEEL SHEET EXTENDING 6" BEYOND HOLE ON ALL SIDES.
  - HOLES 12" TO 18" - 1-3/4" X 3/16" ANGLE EXTENDING 16" BEYOND HOLE IN BOTH DIRECTIONS.
  - WELD ALL REINFORCING TO TOP SIDE OF DECK.

## COLD-FORMED METAL FRAMING NOTES

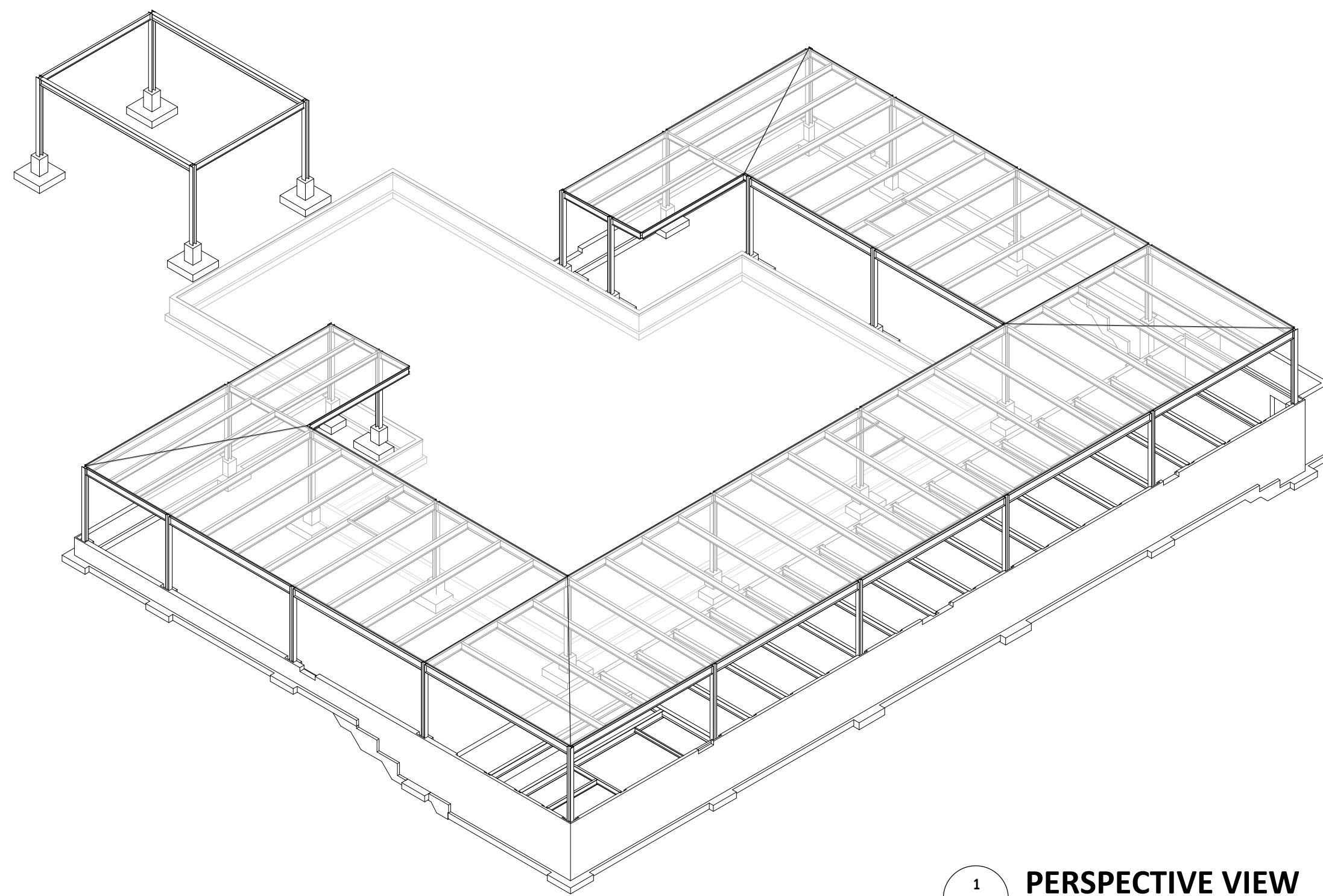
- ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A1003 AND BE GALVANIZED TO G60 COATING. STUDS 18-GAGE AND BELOW HAVE A MINIMUM YIELD STRENGTH OF 33KSI. STUDS 16-GAGE AND ABOVE SHALL HAVE A MINIMUM YIELD STRENGTH OF 50KSI.
- STUD AND TRACK SIZES ARE BASED ON SSMA SIZE DESIGNATIONS.
- ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- NOTCHING OR COPING IS NOT PERMITTED UNLESS STATED OR SHOWN WITHIN SHOP DRAWINGS.
- ENDS OF STUDS SHALL SEAT FIRMLY WITHIN TRACK WITH THE EXCEPTION OF DEFLECTION TRACK. TRACK MUST HAVE FULL BEARING ON STRUCTURE.
- SPLICING OF WALL STUDS IS NOT PERMITTED UNLESS OTHERWISE STATED OR SHOWN WITHIN SHOP DRAWINGS.
- ENSURE PUNCHOUT ALIGNMENT FOR LATERAL BRACING / BRIDGING. LATERAL BRACING / BRIDGING SHALL BE SPACED AT 48-INCHES ON-CENTER MAXIMUM. LATERAL BRACING / BRIDGING SHALL BE INSTALLED AT THE TIME THE WALL IS ERECTED. FAILURE TO INSTALL BRACING MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE FRAMING.
- JOIST OR ROOF MEMBERS MUST BEAR DIRECTLY OVER WALL STUDS. OTHERWISE, A STRUCTURAL MEMBER (BY OTHERS) IS REQUIRED ON TOP OF RUNNER TRACK FOR PROPER BEARING AND ANCHORAGE. NO NOTCHING OR COPING OF JOISTS OR RAFTERS IS ALLOWED.
- STUDS MUST BEAR DIRECTLY OVER SUPPORT FRAMING. OTHERWISE, A STRUCTURAL MEMBER (BY OTHERS) IS REQUIRED TO SUPPORT WALL STUDS.
- ALL HEADERS / BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY. SPLICING OF HEADERS IS NOT PERMITTED.
- ALL METAL TO METAL CONNECTIONS SHALL BE BASED ON SECTION E4 OF THE 2001 AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL FRAMING.
- SCREWS: MAINTAIN A MINIMUM OF 3/4" CLEARANCE FROM ALL EDGES OF STEEL MEMBERS AND 3/4" MINIMUM ON-CENTER SPACING BETWEEN ADJACENT SCREWS.
- POWDER DRIVEN FASTENERS, EXPANSION ANCHORS, ADHESIVE ANCHORING SYSTEMS SPECIFIED ARE BASED ON LITERATURE PUBLISHED BY HILTI, INC. (800-879-8000). APPROVED EQUIVALENT FASTENING SYSTEMS MAY BE PROPOSED FOR SUBSTITUTION. NOTIFY ENGINEER IF WELDED CONNECTIONS ARE PROPOSED.

## STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL MATERIALS (U.O.N.):

W-SHAPES	ASTM A992
ANGLES, PLATES & BARS	ASTM A36
COLUMN BASE PLATES	ASTM A572, GRADE 50
HIGH STRENGTH BOLTS	ASTM A325
ANCHOR BOLTS	ASTM A36
WELDING ELECTRODE	ASTM E70X (LOW HYDROGEN)

- ALL WELDING SHALL BE PERFORMED ONLY BY WELDERS WHO ARE CERTIFIED AS PRESCRIBED IN THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1).
- CONNECTIONS NOT SHOWN ARE TO BE DETAILED BY THE FABRICATOR FOR THE REACTIONS SHOWN OR NOTED IN ACCORDANCE WITH A.I.S.C. STANDARD SPECIFIED UNDER "CODES AND STANDARDS". DETAILS OF ALL CONNECTIONS MUST BE SHOWN ON SHOP DRAWINGS. THE FABRICATOR IS RESPONSIBLE FOR DESIGNING SHEAR & MOMENT CONNECTIONS FOR THE REACTIONS SHOWN OR NOTED AND SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. THE REACTIONS SHOWN OR NOTED ARE "UNFACTORED" LOADS.
- ALL BOLTED CONNECTIONS SHALL BE ASSEMBLED WITH ASTM A325, TENSION CONTROL FASTENERS FOR BEARING TYPE CONNECTIONS AND BE INSTALLED TO A "SNUG TIGHT CONDITION". ALL CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS (3/4" DIA.) UNLESS NOTED OTHERWISE.
- WHERE NO REACTION IS SHOWN OR NOTED IN THE DRAWINGS, DESIGN CONNECTIONS TO CARRY THE VERTICAL REACTION INDICATED IN THE REACTION TABLE SHOWN IN THE TYPICAL STEEL DETAILS IN ACCORDANCE WITH A.I.S.C. REQUIREMENTS.
- A HARDENED WASHER CONFORMING TO ASTM F436 SHALL BE INSTALLED ADJACENT TO THE BEARING FACE OF THE TURNED ELEMENT OF EACH ASTM A325 BOLT ASSEMBLY.
- IF PARTS TO BE JOINED WITH FILLET WELDS CANNOT BE BROUGHT INTO DIRECT CONTACT, THE FILLET WELD SHALL BE INCREASED IN SIZE ABOVE THAT INDICATED IN THE DRAWINGS. THE INCREASED SIZE SHALL BE EQUAL TO OR GREATER THAN THE GAP.
- STEEL FRAME SHALL BE ERECTED TRUE AND PLUMB WITHIN SPECIFIED TOLERANCES. PROVIDE TEMPORARY BRACING IN ADDITION TO MEMBERS SHOWN IN THE DRAWINGS IN ORDER TO SAFELY RESIST ALL IMPOSED LOADS APPLIED DURING CONSTRUCTION AND TO MAINTAIN CORRECT ALIGNMENT. DESIGN OF TEMPORARY SHORING, BRACING AND GUYING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ANCHOR BOLTS AND BASE PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRESET BE TEMPLATES OR SIMILAR METHODS. ALL BASE PLATES SHALL BE GROUTED SOLID FOR FULL BEARING SUBSEQUENT TO COMPLETE ERECTION OF FRAMING WITHIN SPECIFIED TOLERANCES.
- THE USE OF LEVELING PLATES IS PROHIBITED.
- ALL STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-3-82 FOR POWER TOOL CLEANING AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 2 MILS WITH A SHOP COAT OF RUST INHIBITIVE PAINT. FIELD TOUCH-UP SHALL BE PROVIDED TO ALL COMPONENTS AT ALL POINTS OF DAMAGE AS A RESULT OF DELIVERY AND ERECTION, INCLUDING AREAS RECEIVING WELD AFTER COATING. FINISH STEEL IN ACCORDANCE WITH ARCHITECTS SPECIFICATIONS.
- PROVIDE BITUMASTIC PROTECTION COATING FOR ALL STRUCTURAL STEEL BELOW GRADE.
- FOR MISCELLANEOUS STEEL, REFER TO ARCHITECTURAL DRAWINGS.



1  
5-1 PERSPECTIVE VIEW  
NO SCALE

## SUBMITTALS

- SUBMIT SAMPLES, SHOP DRAWINGS, PRODUCT DATA, TEST REPORTS AND DATA, MANUFACTURER'S NAMES, CERTIFICATES, AND PROCEDURES FOR ALL SPECIFIED ITEMS AND AS REQUESTED. SHOP DRAWINGS SHALL CONFORM TO THE BEST STANDARDS OF THE CONSTRUCTION INDUSTRY, AND SHALL BE PREPARED UNDER THE SUPERVISION OF COMPETENT ENGINEERING PERSONNEL.
- CAST-IN-PLACE CONCRETE:
  - SUBMIT REINFORCING STEEL PLACEMENT DRAWINGS INCLUDING APPLICABLE BAR LISTS AND BENDING SCHEDULES. INDICATE ALL LAP LENGTHS, LOCATIONS, AND CLEAR COVER OF REINFORCING STEEL ON THE PLACING PLANS / SHOP DRAWINGS. INCLUDE MILL TEST REPORTS FOR REINFORCING STEEL.
  - SUBMIT CONCRETE MIX DESIGNS WITH MATERIAL CERTIFICATIONS FOR CEMENT AND PRODUCT DATA FOR ADMIXTURES.
- STRUCTURAL STEEL:
  - SUBMIT ERECTION DRAWINGS, INDEX SHEETS, CONNECTION DETAILS, AND PIECE DRAWINGS FOR FABRICATED STEEL. THE STEEL FABRICATOR SHALL BE AISC QUALITY CERTIFIED CATEGORY 1 OR 2 FOR STEEL STRUCTURES. SUBMIT CERTIFICATION WITH SHOP DRAWINGS. CONNECTION DESIGNS AND DETAILS SHALL BEAR THE SEAL OF A LICENSED NY STATE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
  - SUBMIT CERTIFIED COPIES OF MILL TEST REPORTS FOR ALL STEEL FURNISHED AND MANUFACTURER'S CERTIFICATION OF BOLTS, WASHERS, AND FILLER MATERIAL FOR WELDING UPON REQUEST.
- COLD-FORMED METAL FRAMING:
  - SUBMIT COMPLETE ERECTION DRAWINGS FOR COLD-FORMED METAL FRAMING. INDICATE FIELD CONNECTION DATA COMPLETE WITH DETAILS OF CONNECTIONS AND FASTENERS. SHOP DRAWINGS SHALL BEAR THE SEAL OF A CT LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

Stephen Jager, AIA

**JAGER**  
ASSOCIATES LLC

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860-803-1265 sjaj@aol.com

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The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.

**PVE**

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Bushnell on the Park  
100 Wells Street - Suite 2K  
Hartford, CT 06103  
860.522.3970  
860.522.3971 - fax



PROJECT NAME:

**ALTERATIONS & ADDITIONS  
EAST WINDSOR COMMUNITY  
CENTER**

PROJECT ADDRESS:

**28 ABBE ROAD  
EAST WINDSOR, CT 06088**

PROJ NO:

**22051**

ISSUE DATE:

**07/08/2022**

REVISION DATE:

1. **09/20/2022**  
**ISSUED FOR PERMIT**

DRAWING

**GENERAL NOTES &  
DESIGN CRITERIA &  
TYPICAL DETAILS**

**S-1**

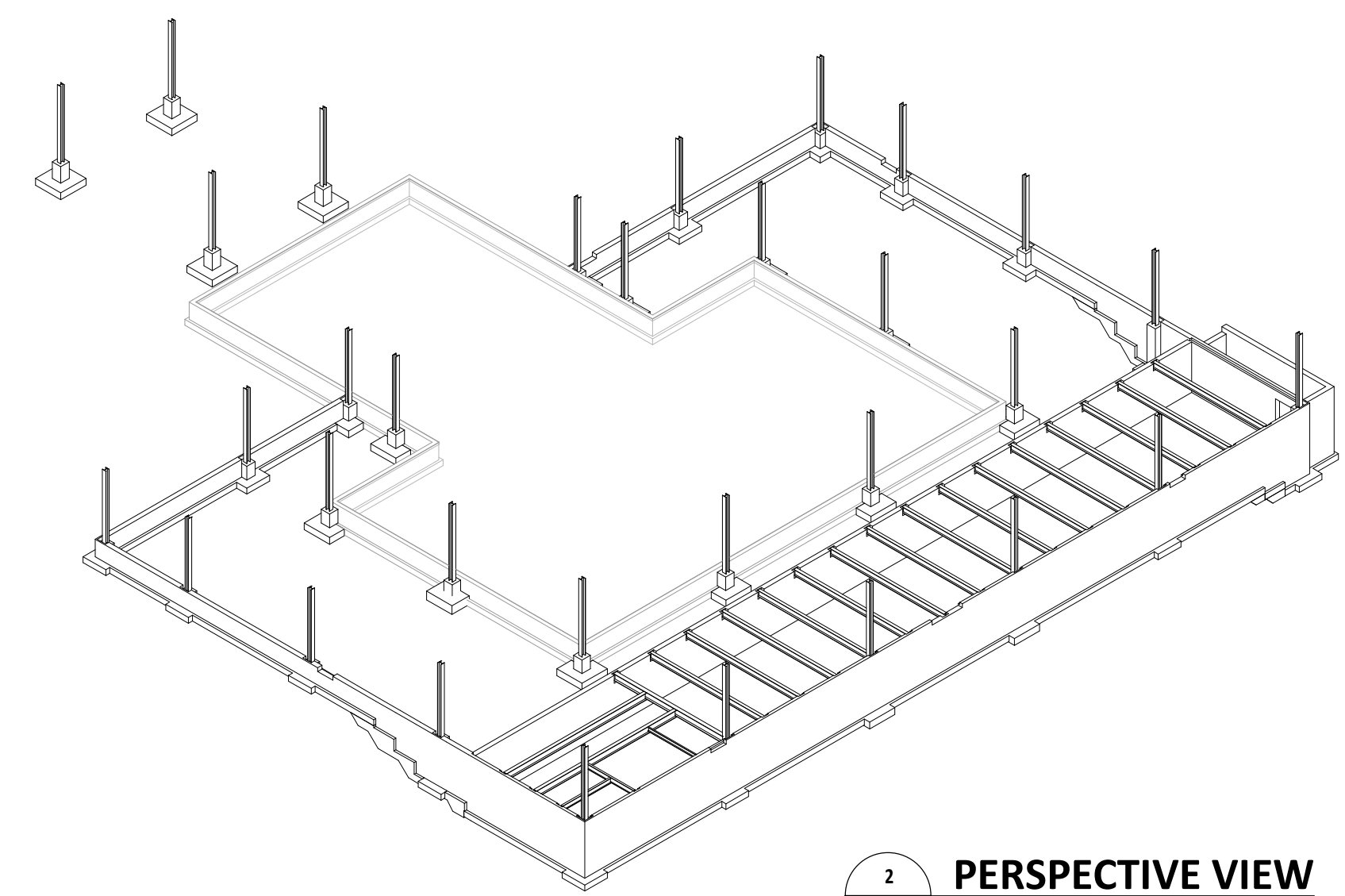


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2 PERSPECTIVE VIEW  
NO SCALE



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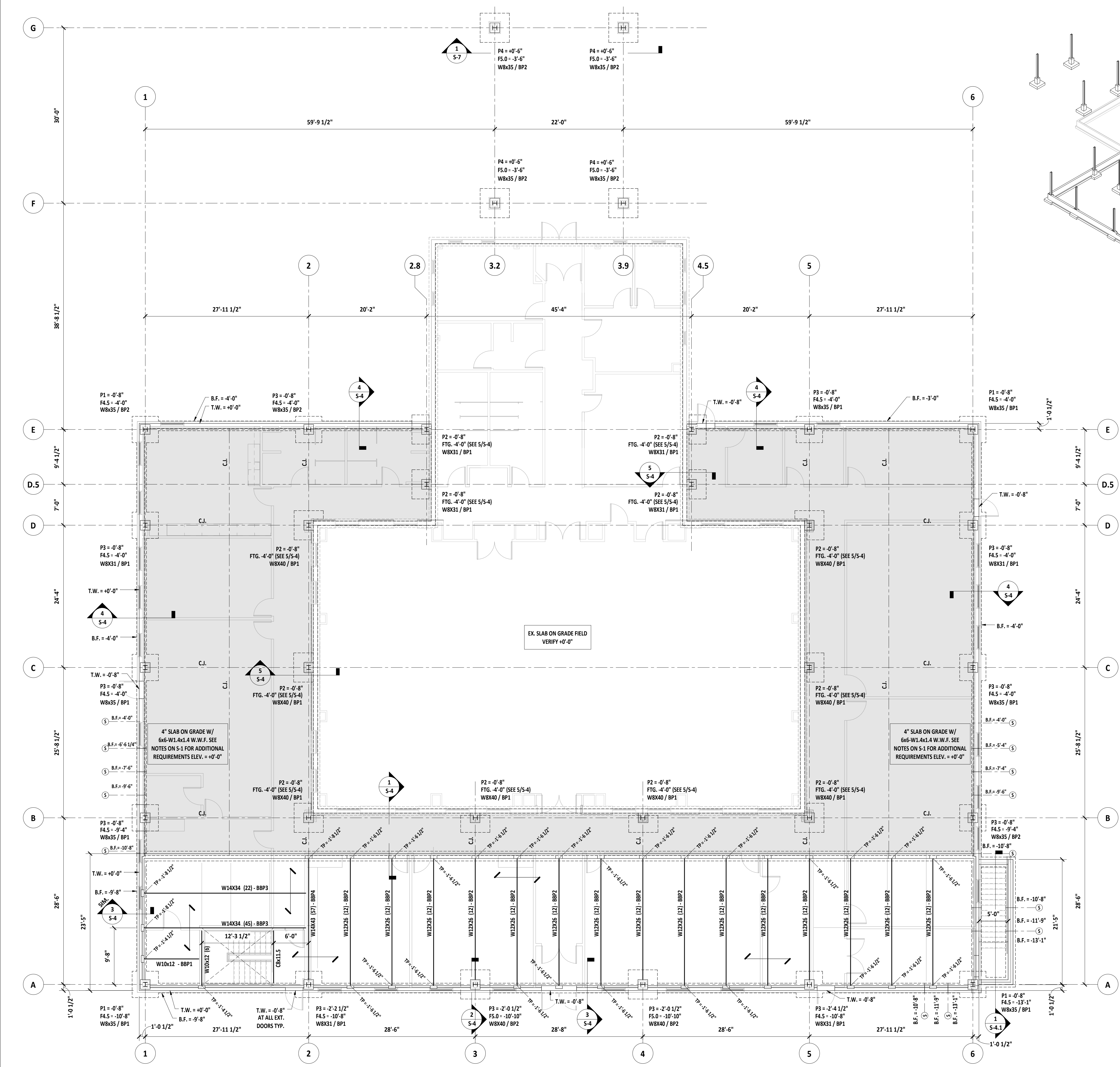
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FOOTING	SIZE			REINFORCEMENT	
	LONG DIMENSION	SHORT DIMENSION	DEPTH	LONG DIRECTION	SHORT DIRECTION
F4.5	4'-6"	4'-6"	1'-0"	6 - #5 BARS	6 - #5 BARS
F5.0	5'-0"	5'-0"	1'-2"	7 - #5 BARS	7 - #5 BARS

1 FOUNDATION / GROUND LEVEL FRAMING PLAN  
SCALE: 1/8" = 1'-0"

- NOTES:
- SEE S-1 FOR ADDITIONAL INFORMATION & REQUIREMENTS
  - FRAMES X-X' INDICATES SPREAD FOOTING SIZE AND BOTTOM OF FOOTING ELEVATION. SEE THIS DRAWING FOR FOOTING SCHEDULE
  - PERX-X' INDICATES PIER TYPE AND TOP OF PIER ELEVATION. SEE DETAILS ON S-5 FOR PIER TYPES.
  - BF INDICATES BOTTOM OF STRIP/WALL FOOTING ELEVATION
  - TW INDICATES TOP OF WALL ELEVATION INDICATED THUS TW = X'-X".
  - TS INDICATES TOP OF SHELF ELEVATION INDICATED THUS TS = X'-X".
  - TP INDICATES TOP OF BEAM POCKET ELEVATION INDICATED THUS TP = X'-X".
  - ALL EXTERIOR FOOTINGS SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE WITH ELEVATIONS INDICATED PRIOR TO POURING CONCRETE. NOTIFY ENGINEER IF OTHERWISE
  - PLACE VAPOR BARRIER BENEATH ENTIRE SLAB-ON-GRADE. SEE NOTES ON S-1.
  - T.O.S. = 0'-4 1/2". FINISHED FLOOR ELEVATION = +0'-0"
  - BBPX INDICATES BEAM BEARING PLATE TYPE. SEE BEAM BEARING PLATE SCHEDULE ON SHEET S-5.
  - INDICATES 1-1/2", 20 GAGE, GALVANIZED, INVERTED B-LOK COMPOSITE FLOOR DECK
  - W/ 3" LIGHT-WEIGHT CONCRETE OVER DECK FLUTES FOR 4-1/2" TOTAL SLAB THICKNESS.
  - REFER TO S-6 FOR COMPOSITE BEAM DETAIL.



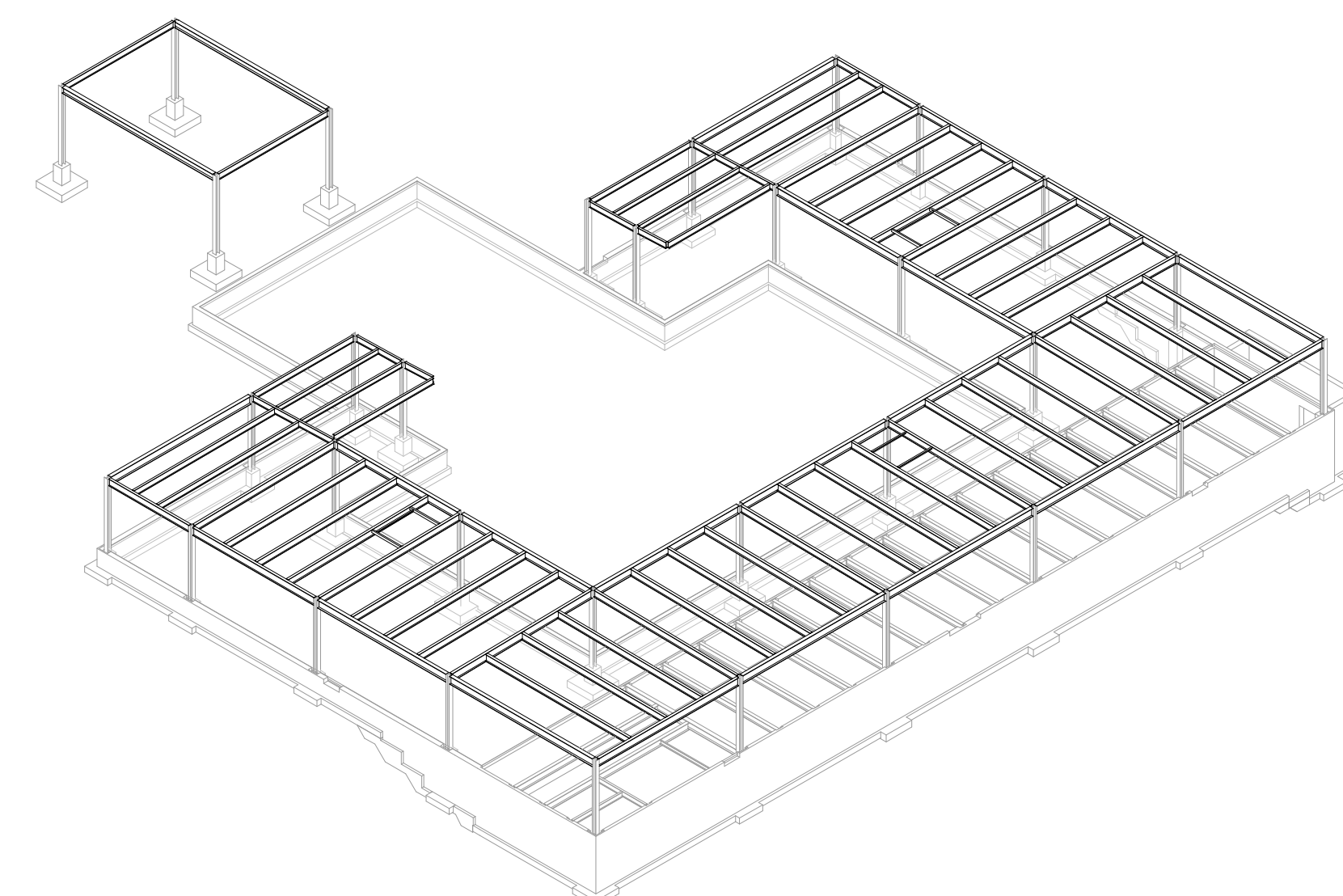


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2 PERSPECTIVE VIEW  
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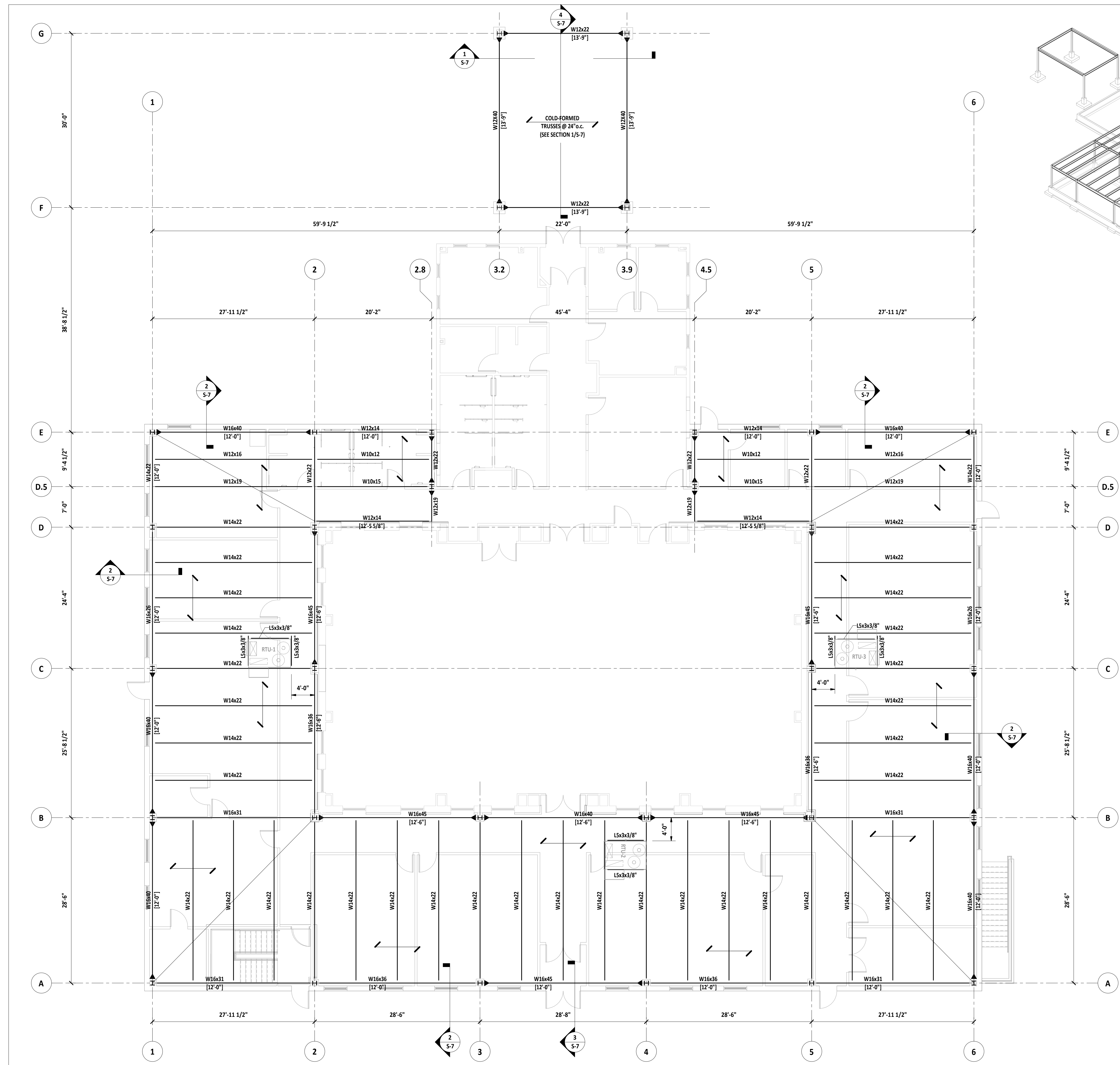
ISSUE DATE:  
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1. 09/20/2022  
ISSUED FOR PERMIT

RTU SCHEDULE	
MARK	MAX WEIGHT W/ CURB
RTU-1	900 LBS.
RTU-2	900 LBS.
RTU-3	900 LBS.

1 ROOF FRAMING PLAN  
S-3 SCALE: 1/8" = 1'-0"

- NOTES:
- TOP OF STEEL ELEVATION INDICATED THUS [+X'-X"] (REFER TO PLAN).
  - INDICATES 1-1/2" x 20 GAGE METAL ROOF DECK.
  - INDICATES MOMENT CONNECTION. SEE 5-6 FOR MOMENT CONNECTION DETAILS.
  - REFER TO TYPICAL ANGLE FRAME DETAIL ON S-401 FOR RTU SUPPORT FRAMING.









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PROJECT NAME:  
**ALTERATIONS & ADDITIONS  
EAST WINDSOR COMMUNITY  
CENTER**

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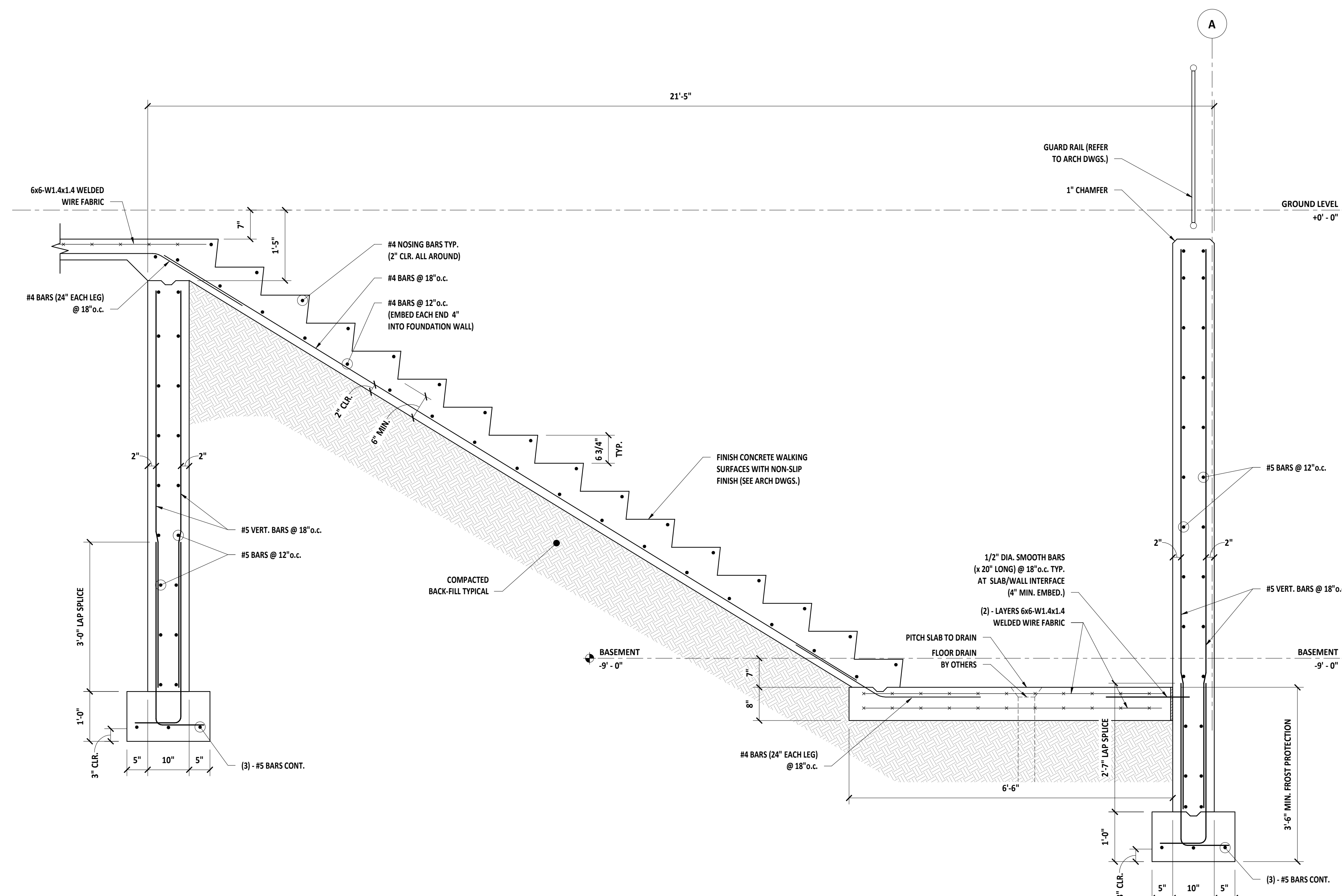
PROJ NO:  
**22051**

ISSUE DATE:  
**07/08/2022**

REVISION DATE:  
**1. 09/20/2022  
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DRAWING  
**FOUNDATION  
SECTIONS**

**S-4.1**



**1 SECTION AT EXTERIOR STAIR WELL**  
SCALE: 3/4" = 1'-0"



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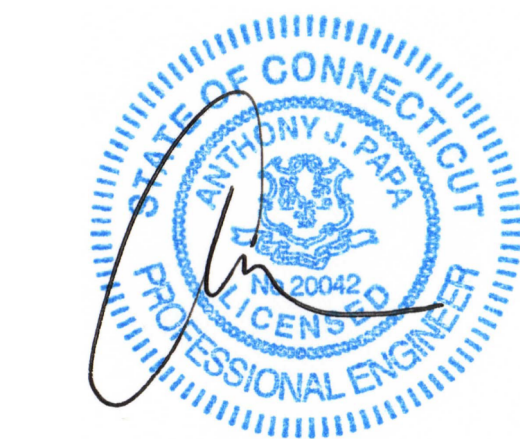
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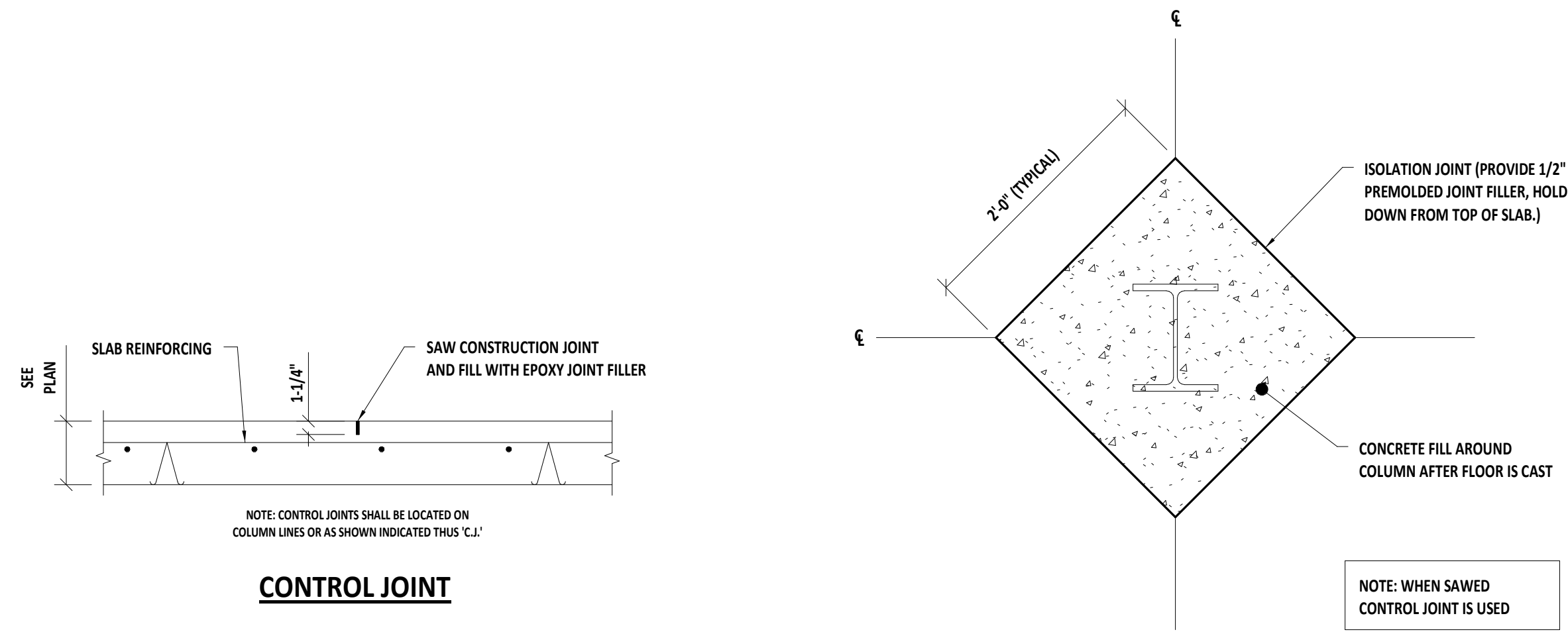
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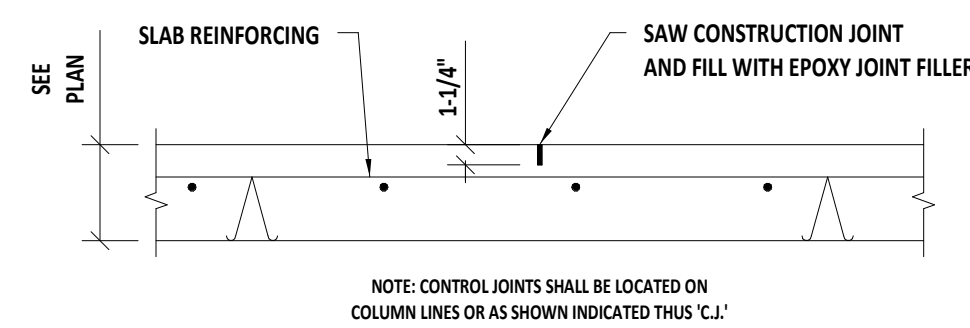
DRAWING

**PIER TYPES &  
TYPICAL CONCRETE  
DETAILS**

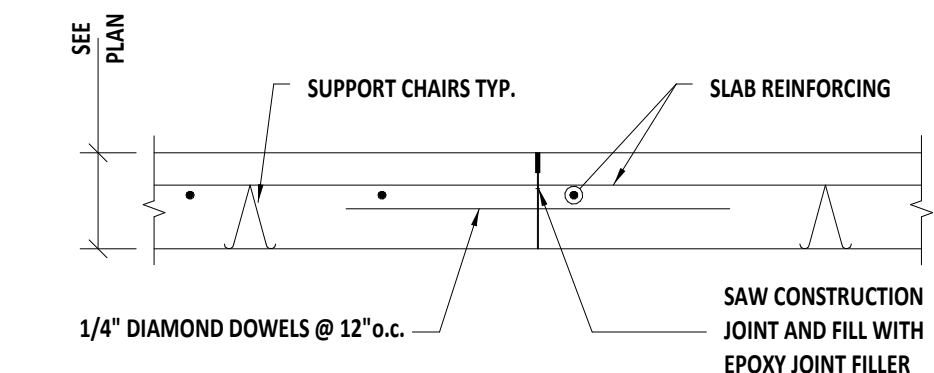
**S-5**



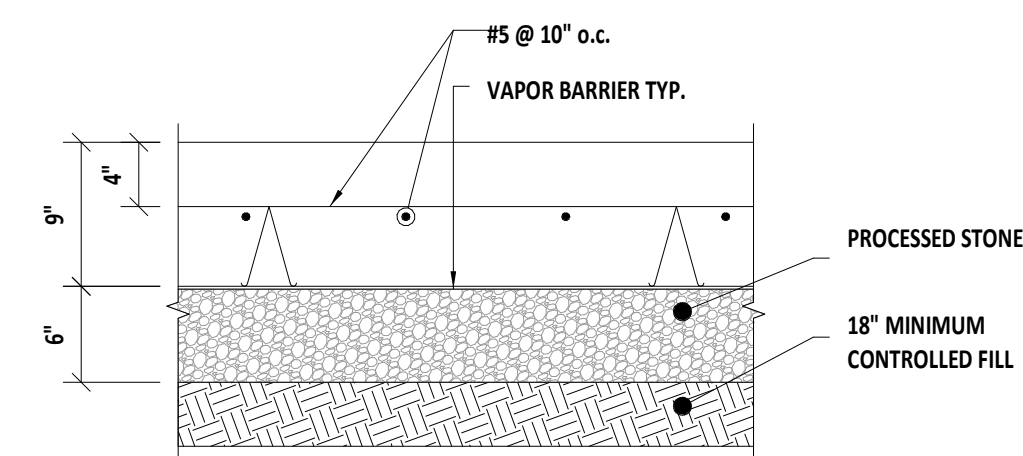
**TYP. ISOLATION JOINT AT COLUMN**



**CONTROL JOINT**



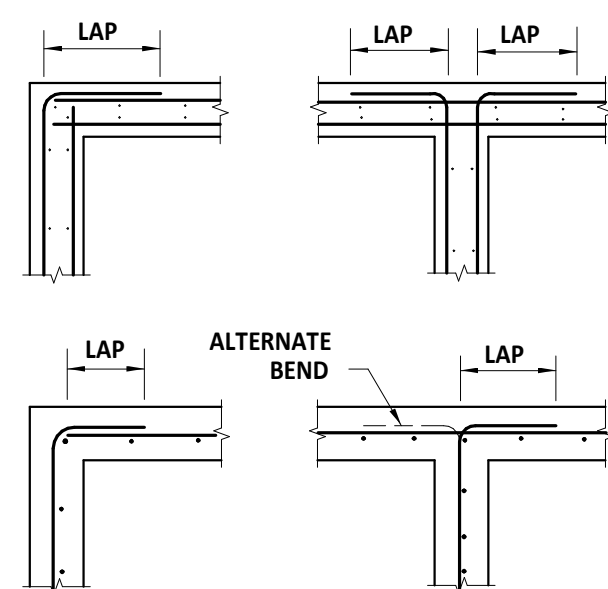
**CONSTRUCTION JOINT**



**TYPICAL SLAB PROFILE**

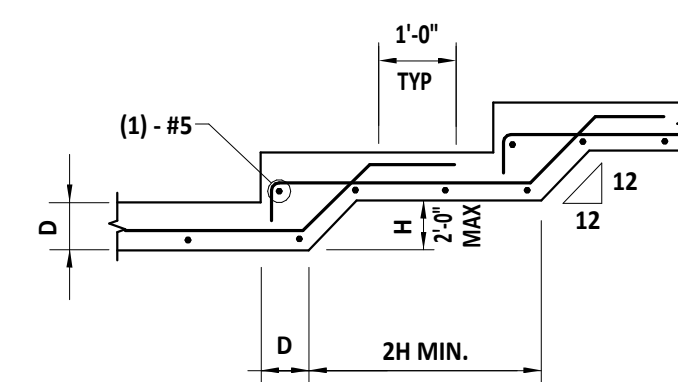
- NOTES:  
1. PROVIDE CHAIRS TO MAINTAIN SLAB REINFORCING AT ELEVATIONS SHOWN.

**TYPICAL SLAB-ON-GRADE SECTIONS**



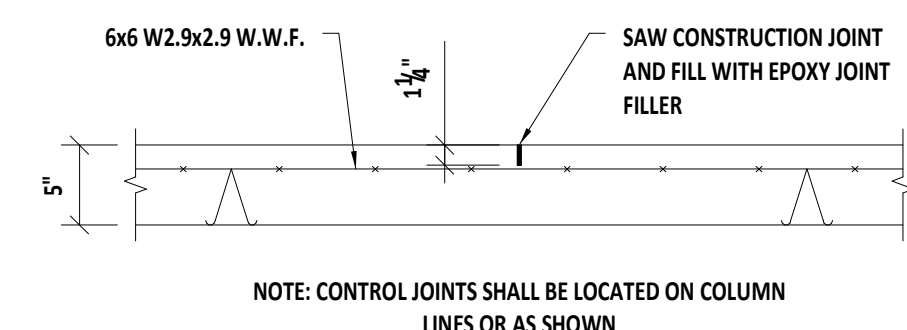
**WALL/FOOTING INTERSECTIONS**

LAP = 40 BAR DIA. (24" MIN.)

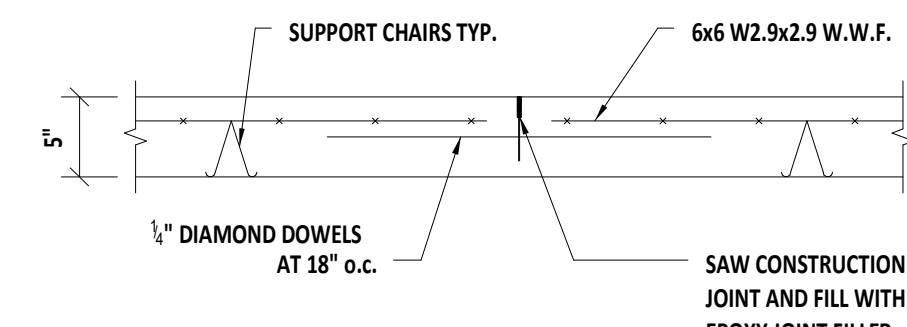


**STEPPED WALL FOOTING**

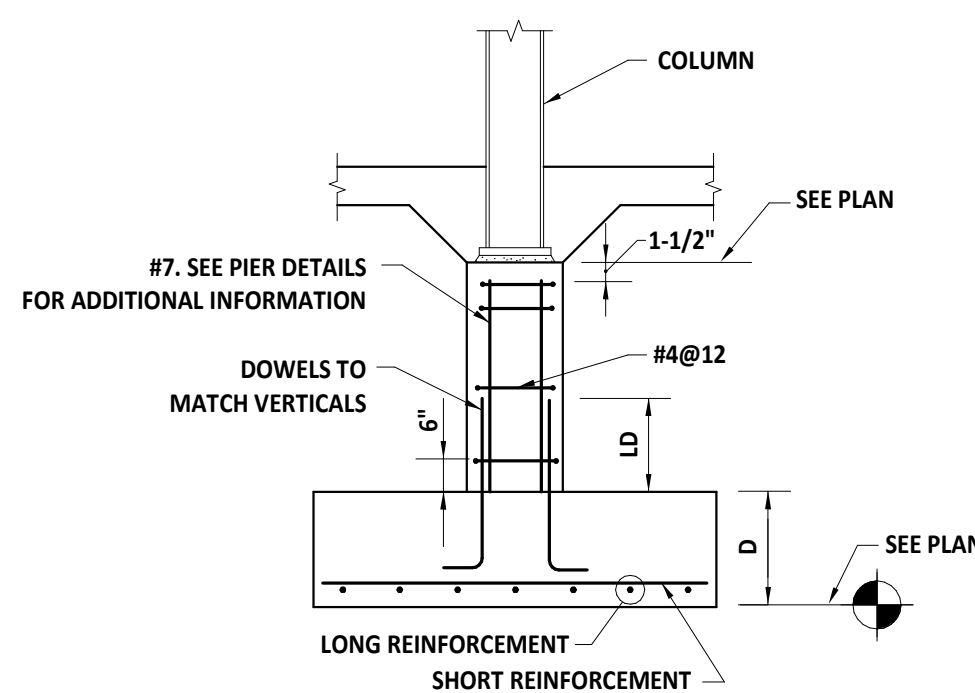
**TYPICAL FOUNDATION DETAILS**



**CONTROL JOINT**



**CONSTRUCTION JOINT**



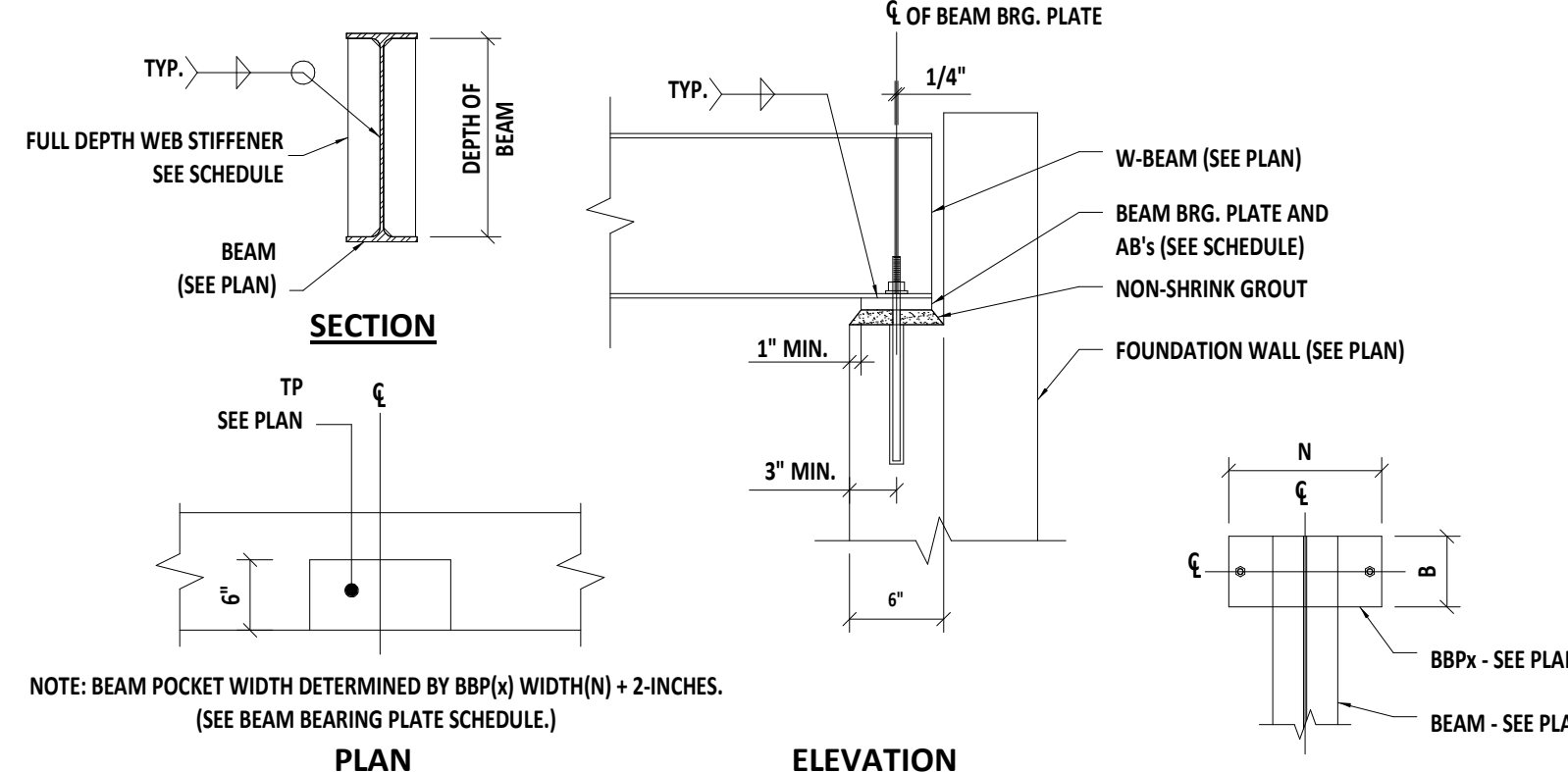
**EXTERIOR SECTION**

- NOTES:  
1. SEE COLUMN FOOTING SCHEDULE FOR DIMENSIONS AND REINFORCEMENT. ELEVATIONS SHOWN IN PLANS AND/OR DETAILS ARE BOTTOM OF FOOTING ELEVATIONS. FOOTINGS SHALL BE LOWERED WHERE ACTUAL SOIL BEARING CAPACITY REQUIRES A LOWER ELEVATION. REFER TO GEOTECHNICAL REPORT.  
2. COLUMN AND FOOTING CENTERLINES SHALL COINCIDE UNLESS OTHERWISE SHOWN.

**COLUMN FOOTING TYPICAL DETAILS**

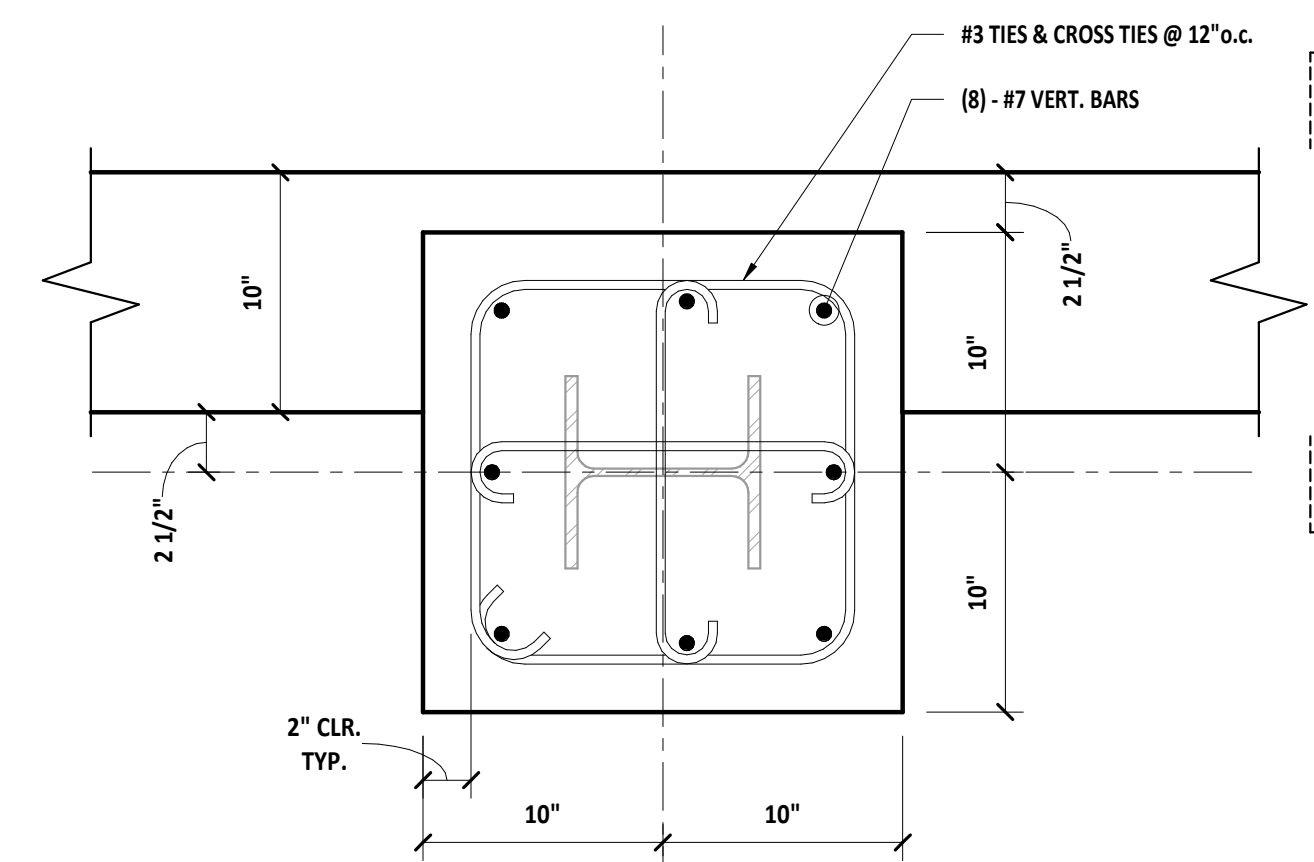
BEAM BEARING PLATE SCHEDULE			
MARK	BEARING PLATE SIZE N x L x B	ANCHOR BOLTS - ASTM A36 THREADED ROD	REMARKS
BBP1	10" x 1/2" x 0'-4"	(2) 3/4" DIA. 12" MIN. EMBED	-
BBP2	13" x 5/8" x 0'-5"	(2) 3/4" DIA. 15" MIN. EMBED	-
BBP3	13" x 3/4" x 0'-5"	(2) 3/4" DIA. 15" MIN. EMBED	-
BBP4	14" x 3/4" x 0'-6"	(2) 3/4" DIA. 15" MIN. EMBED	-

NOTE: INSTALL THREADED RODS INTO CONCRETE WITH HILTI HIT HY 200 INJECTION ADHESIVE ANCHORING SYSTEM (OR APPROVED EQUIVALENT) IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROPER HOLE CLEANING IS ESSENTIAL.

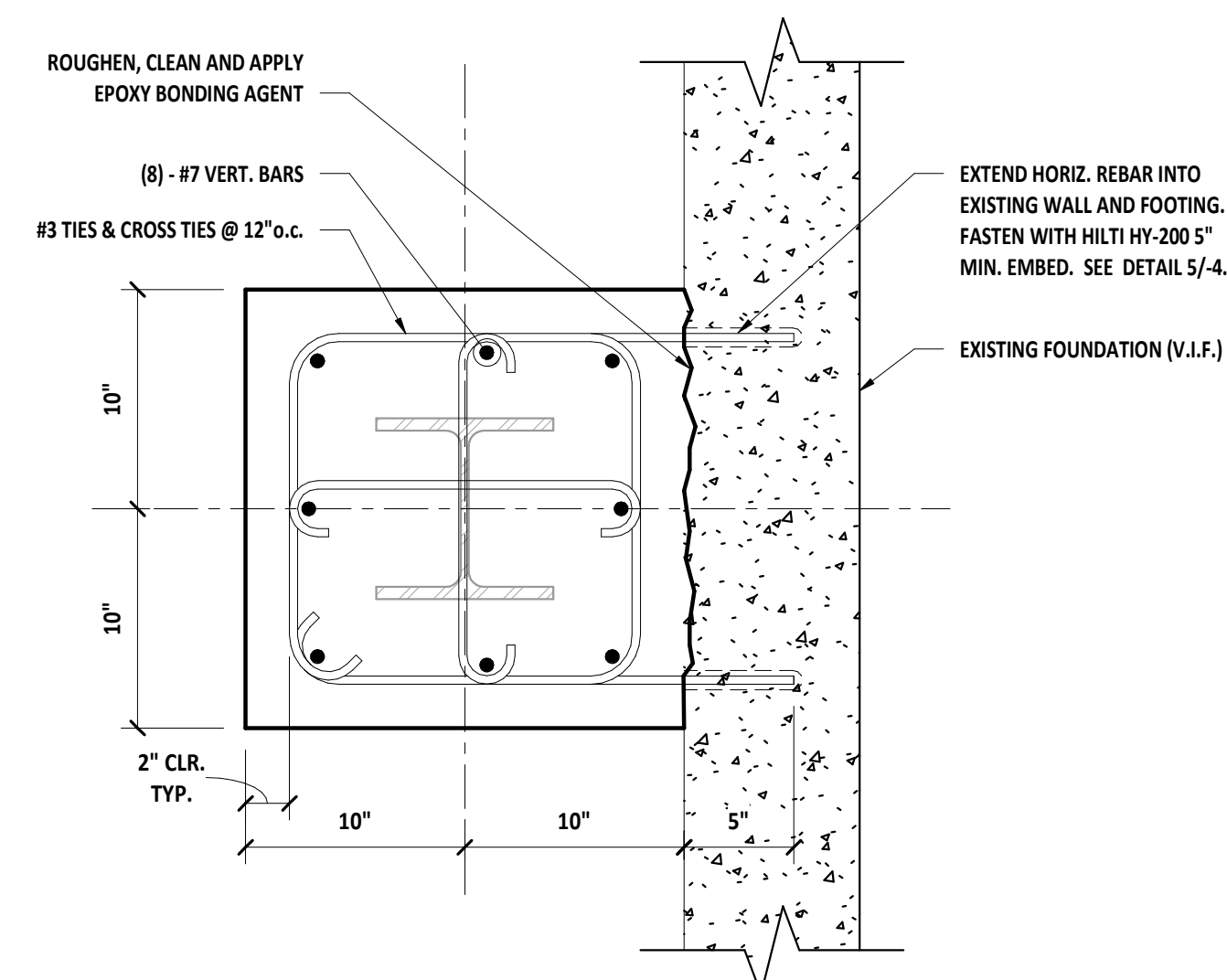


**TYPICAL BEAM POCKET DETAIL**

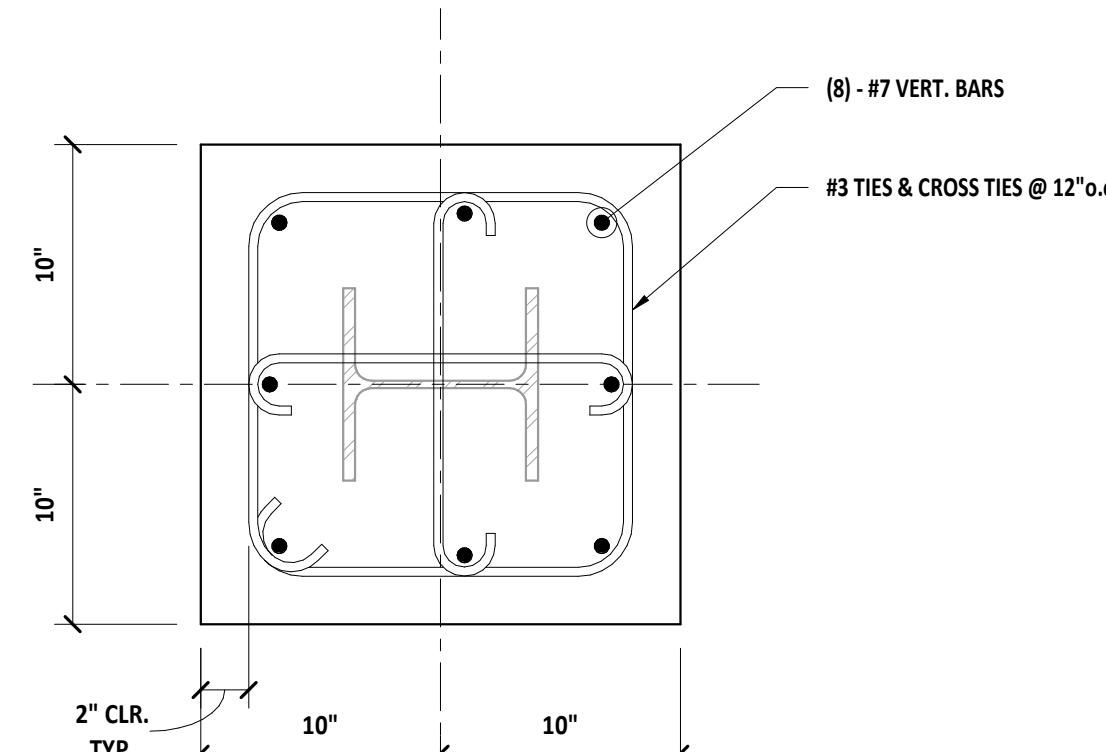
NOTE: BEAM POCKET WIDTH DETERMINED BY BBP(x) WIDTH(N) + 2-INCHES. (SEE BEAM BEARING PLATE SCHEDULE.)



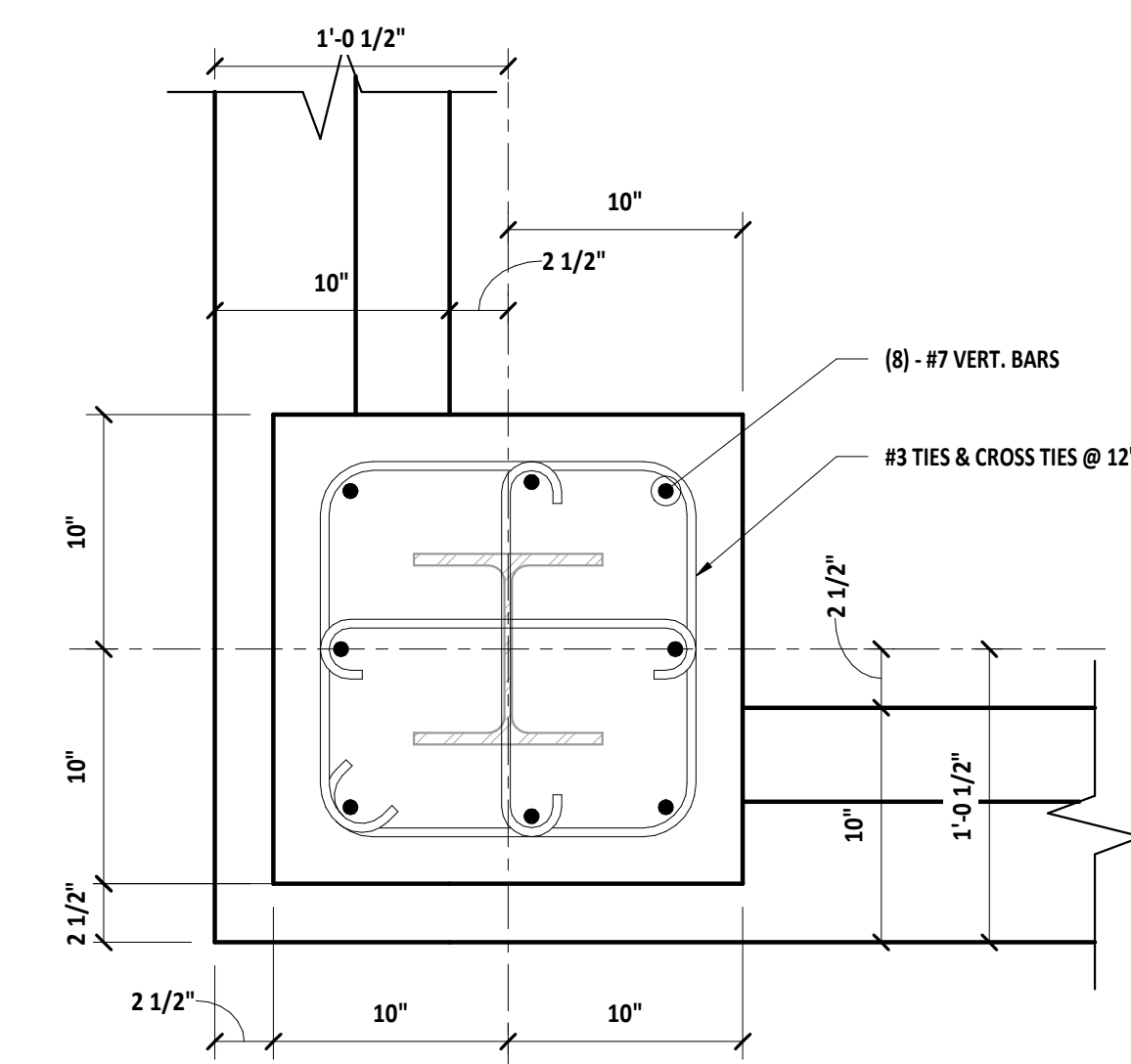
**3 PIER TYPE P3**  
SCALE: 1 1/2" = 1'-0"



**2 PIER TYPE P2**  
SCALE: 1 1/2" = 1'-0"



**4 PIER TYPE P4**  
SCALE: 1 1/2" = 1'-0"



**1 PIER TYPE P1**  
SCALE: 1 1/2" = 1'-0"



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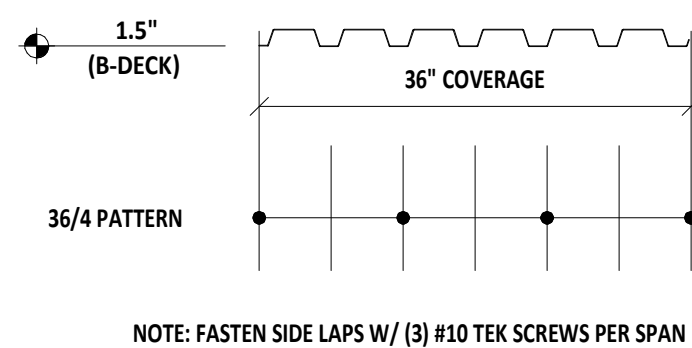
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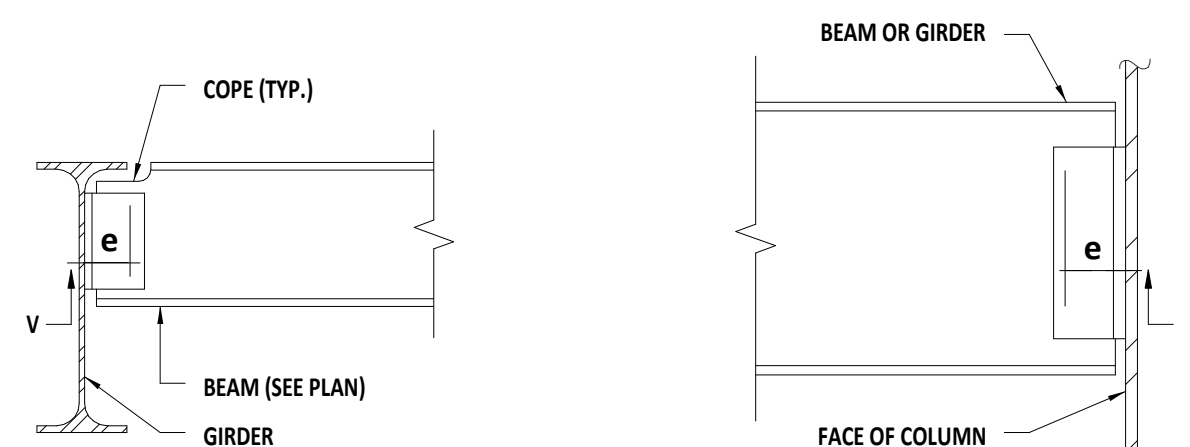
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**DRAWING**  
TYPICAL STEEL  
DETAILS



**TYPICAL DECK FASTENER LAYOUT**



**TYPICAL BEAM TO GIRDER CONNECTION**

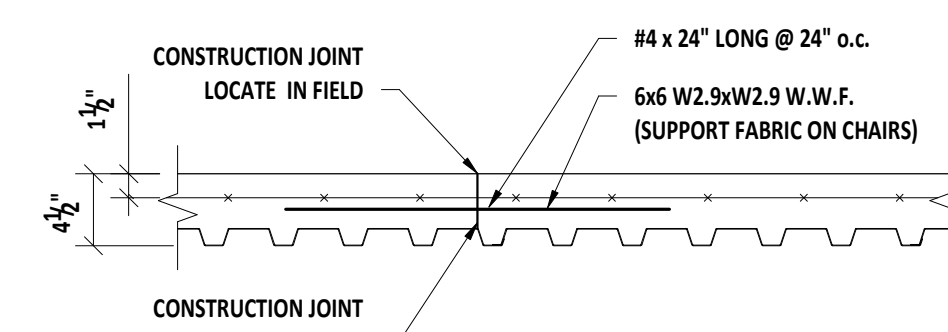
**TYPICAL BEAM OR GIRDER TO COLUMN CONNECTION**

**NOTES:**

- CONNECTIONS MAY BE BOLTED OR WELDED AT CONTRACTORS OPTION.
- CONNECTION FOR BEAMS TO BE PROPORTIONED TO DELIVER THEIR END REACTIONS TO THE CENTER OF GRAVITY OF THE MEMBER TO WHICH THEY FRAME.
- PROPORTION CONNECTION FOR SHEAR, V (SEE TABLE) AND MOMENT, M=Ve, WHERE E IS DEFINED AS DISTANCE TO CENTER OF GRAVITY OF WELD OR BOLT GROUP TO CENTERLINE OF SUPPORTING MEMBER UNLESS OTHERWISE SHOWN OR NOTED.
- WHERE STANDARD AISC DOUBLE ANGLE CONNECTIONS ARE UTILIZED, MOMENT, M=Ve, MAY BE DISREGARDED.

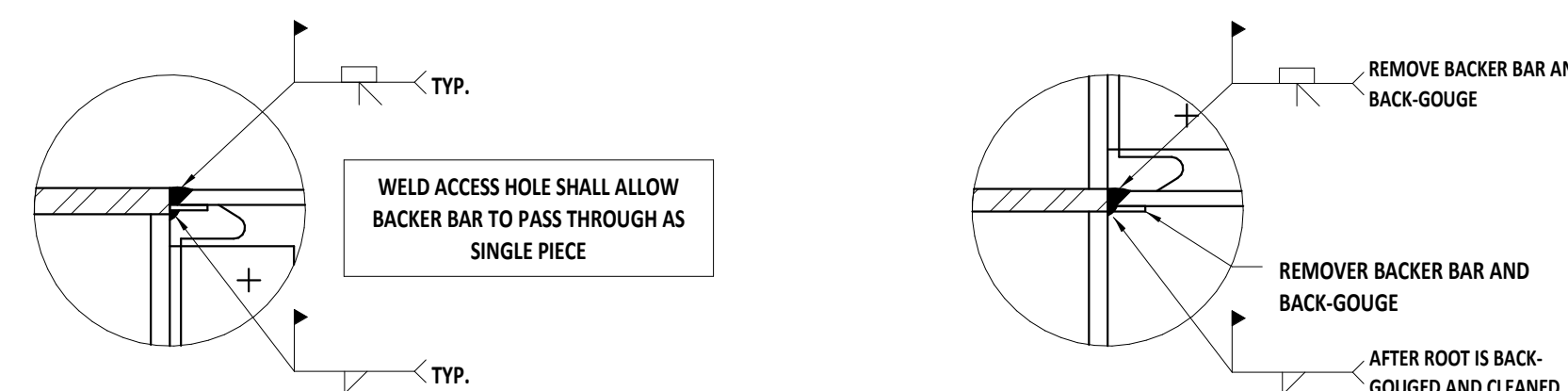
NOMINAL DEPTH OF BEAM OR GIRDER	MIN. NUMBER OF ROWS	MIN. VERTICAL REACTION - V, (KIPS)	
		CONNECTED TO BEAM OR GIRDER	CONNECTED TO COLUMN
8	2	14	24
10	2	18	24
12	3	20	36
14, 15, 16	4	36	50
18	4	50	75
21, 24	5	62	90

**TYPICAL SHEAR CONNECTIONS**



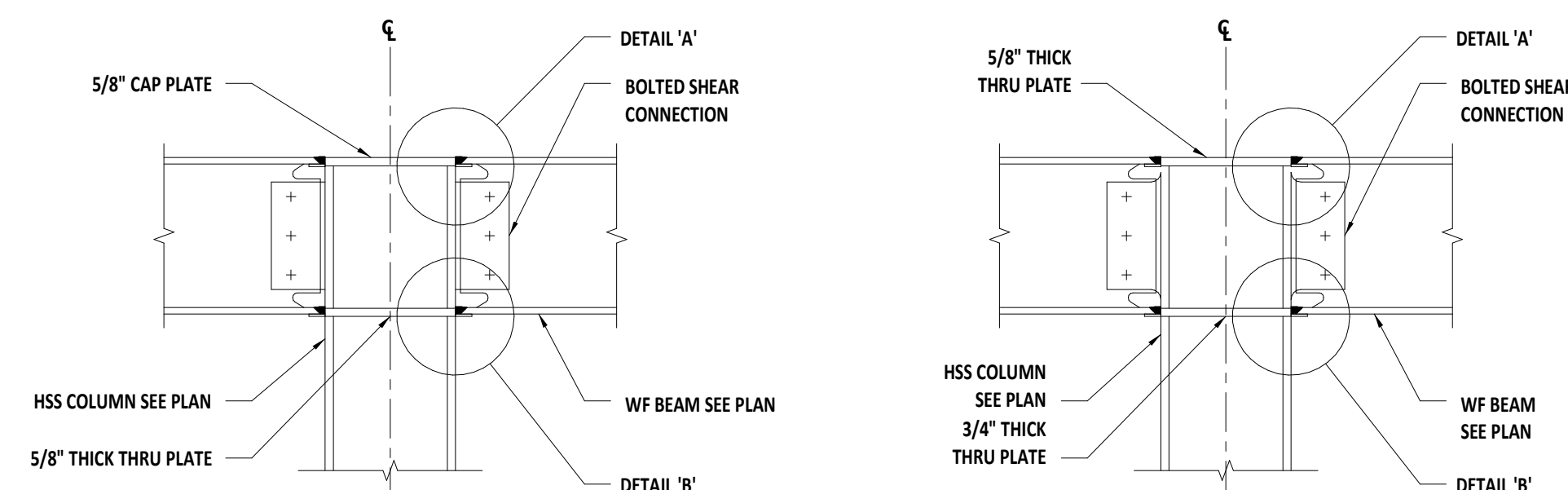
- NOTES:**
- LOCATE CONSTRUCTION JOINTS IN THE MIDDLE THIRD OF SPANS. LOCATE JOINTS SO STRENGTH AND APPEARANCE OF CONCRETE IS NOT IMPAIRED. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS FOR REVIEW.
  - CLEAN AND APPLY BONDING AGENT WHERE FRESH CONCRETE IS POURED AGAINST HARDENED CONCRETE.

**CONCRETE ON METAL DECK TYPICAL DETAILS**



**DETAIL 'A'**

**DETAIL 'B'**



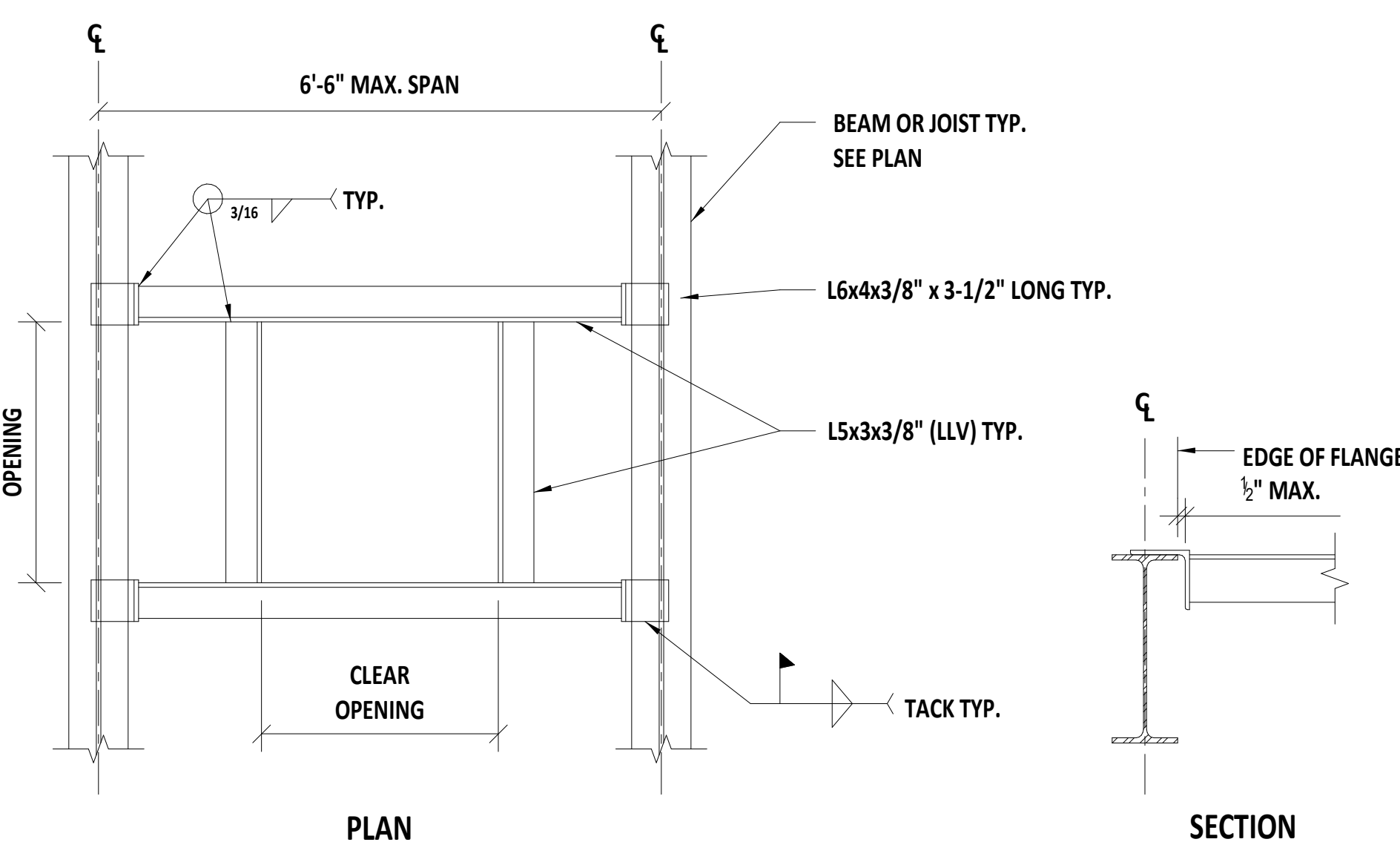
**TOP OF COLUMN**

**TOP OF COLUMN**

**NOTES:**

- MOMENT CONNECTIONS ARE DENOTED ► IN PLAN.
- PROPORTION FLANGE CONNECTIONS FOR FORCE P = M/(BEAM DEPTH)
- M = FULL MOMENT CAPACITY OF BEAM OR GIRDER UNLESS OTHERWISE NOTED OR SHOWN.
- PROPORTION CONNECTIONS AND CONNECTION PLATES WITHOUT AN ALLOWABLE STRESS INCREASE.

**TYPICAL MOMENT CONNECTION DETAIL**



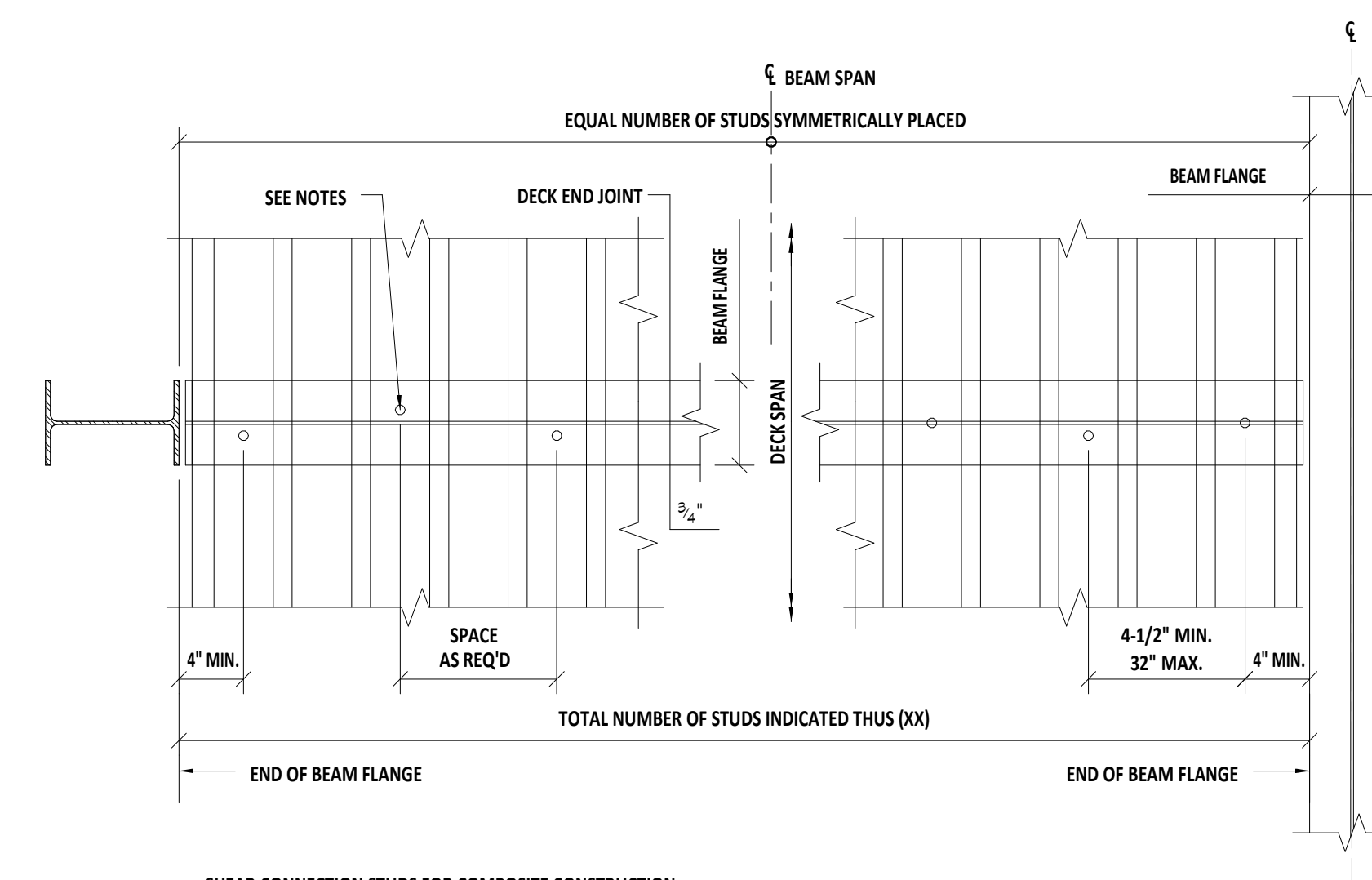
**PLAN**

**SECTION**

**NOTES:**

- PROVIDE FRAME AT ALL ROOF DRAINS AND ROOF PENETRATIONS WHERE FRAMING MEMBERS ARE NOT INDICATED.
- MAXIMUM WEIGHT SUPPORTED BY FRAME INDICATED IN PLAN. NOTIFY ENGINEER IF OTHERWISE.
- COORDINATE FINAL LOCATION AND SIZE OF FRAME WITH APPROPRIATE TRADE.
- PROVIDE 20 GAGE BENT DECK CLOSURE PLATE AROUND OPENING PERIMETER.
- FASTEN DECKING TO ROOF FRAME AT 12" o.c. TYP.

**TYPICAL ANGLE FRAME OPENING**



**SHEAR CONNECTION STUDS FOR COMPOSITE CONSTRUCTION**

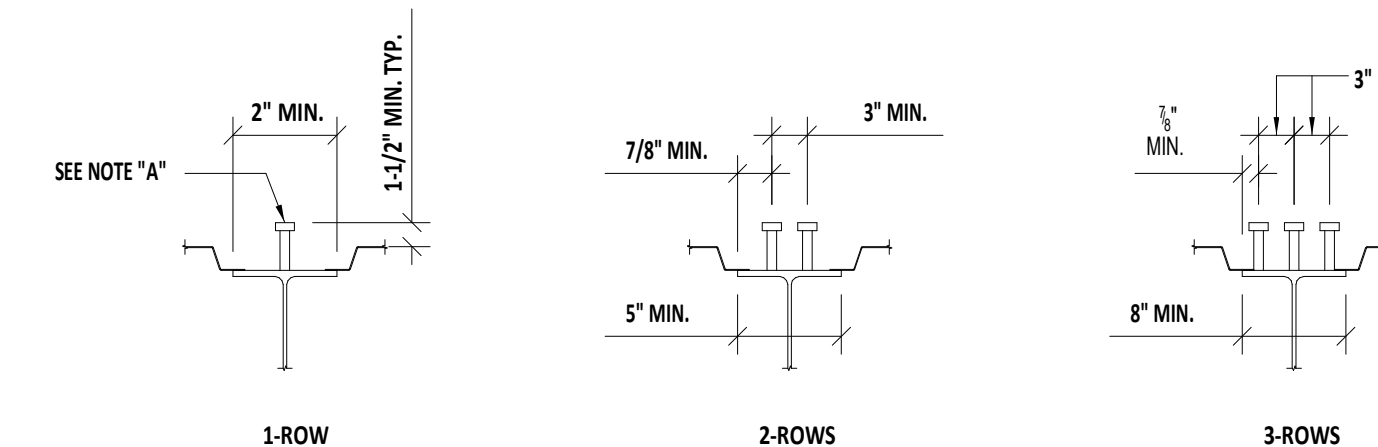
STUDS SHALL BE TYPE S31, 3/4" DIA. AS MANUFACTURED BY NELSON STUD DIVISION, OR APPROVED EQUAL. STUDS SHALL HAVE PROPER FERRULES FOR WELD-THRU DECK APPLICATIONS. STUDS, AFTER WELDING, SHALL PROJECT A MINIMUM OF 1 1/2" ABOVE TOP OF METAL DECK AND THERE SHALL BE A MINIMUM OF 3/4" CONCRETE COVER ABOVE STUDS. STUDS SHALL BE WELDED PER MANUFACTURERS RECOMMENDATIONS.

STUDS SHALL BE PLACED IN THE BOTTOM FLUTE OF THE METAL DECK ACCORDING TO DETAILS SHOWN HERE.

FOR DECK ATTACHMENT TO BEAMS, SEE GENERAL NOTES AND SPECIFICATIONS. WELDED SHEAR STUDS MAY BE CONSIDERED A DECK ATTACHMENT.

THE TOTAL NUMBER OF STUDS SHOWN ON THE FRAMING PLANS AND INDICATED IN PARENTHESIS THUS (XX) SHALL BE UNIFORMLY PLACED ALONG THE LENGTH OF THE BEAM. THERE SHALL BE AN EQUAL NUMBER OF STUDS PLACED EACH SIDE OF THE BEAM CENTERLINE TO THE BEAM ENDS.

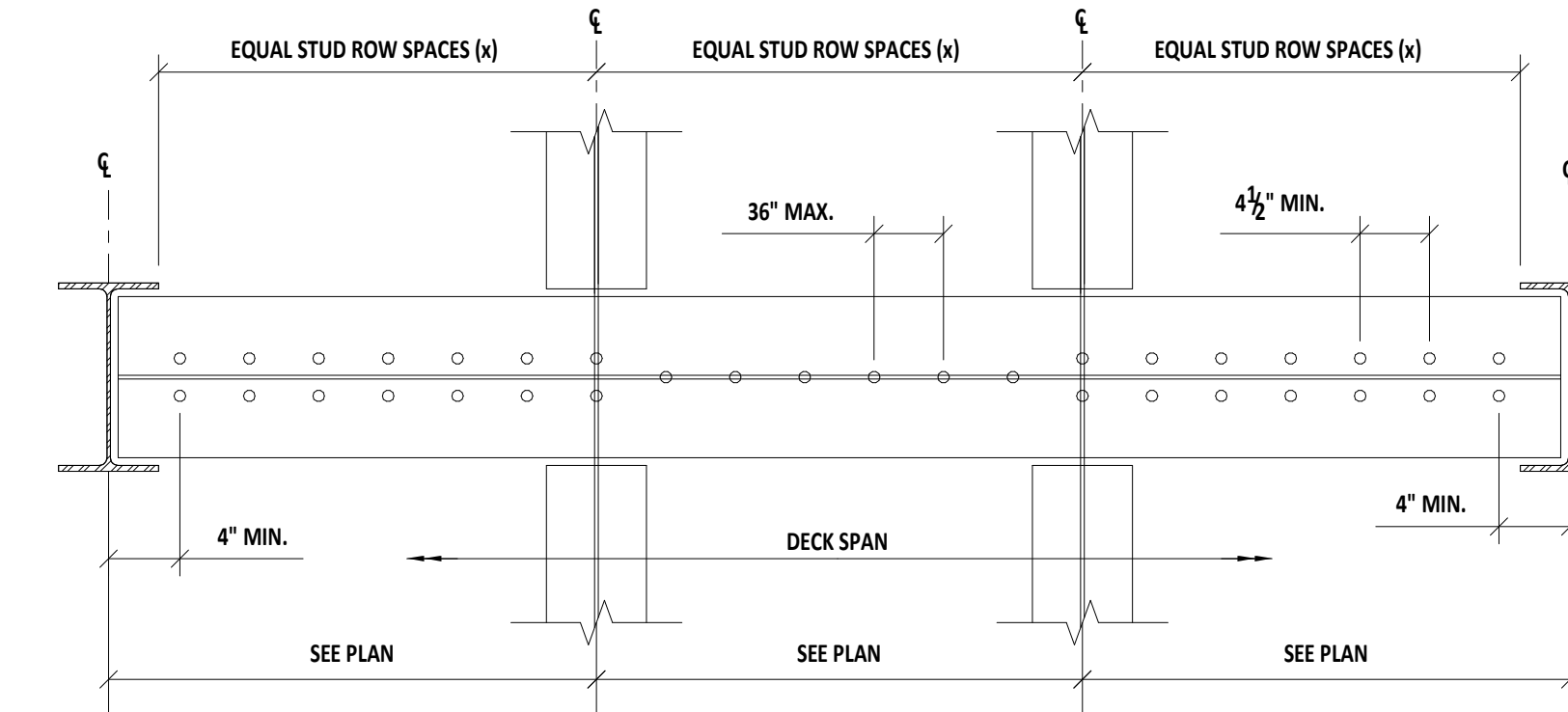
**PLAN STUDS FOR BEAM PERPENDICULAR TO METAL DECK SPANS**



STUDS SHALL NOT BE PLACED CLOSER THAN 7/8" FROM THE EDGE OF BEAM FLANGE, NOR BE CLOSER THAN 3/4" FROM THE EDGE OF THE METAL DECK. ALLOW A MINIMUM OF 3" ON CENTER BETWEEN STUDS IN A STUD ROW. USE SINGLE ROW, 2 ROWS, OR 3 ROWS OF STUDS, OR COMBINATIONS OF THESE IN THE METAL DECK BOTTOM FLUTES TO OBTAIN THE REQUIRED NUMBER OF STUDS.

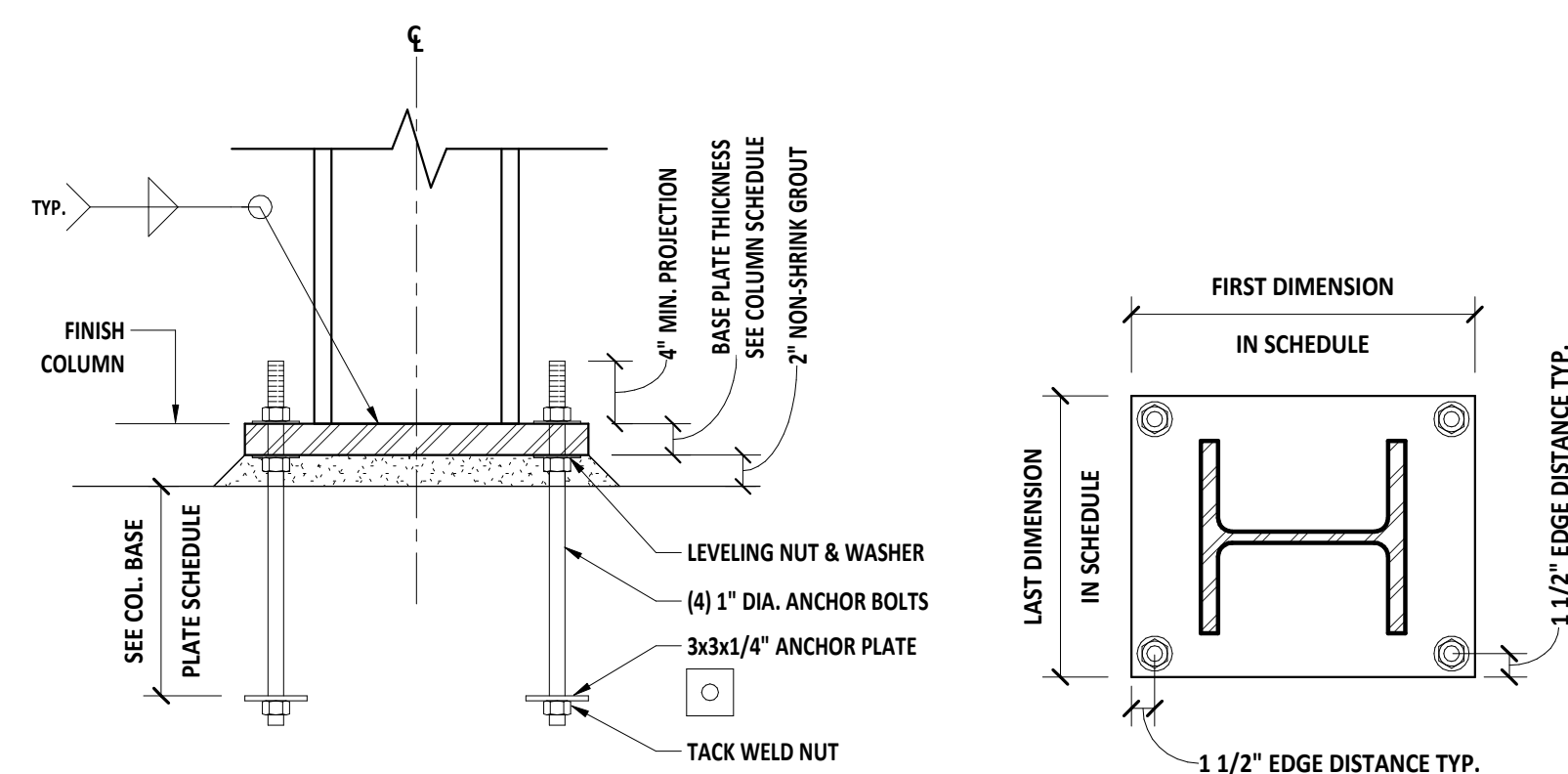
**NOTE "A":** STUDS SHALL BE ATTACHED DIRECTLY OVER THE BEAM WEB UNLESS THE BEAM FLANGE THICKNESS IS 0.30" OR THICKER.

**SHEAR CONNECTOR STUDS FOR COMPOSITE CONSTRUCTION**



THE NUMBER OF STUDS SHOWN ON THE FRAMING PLANS AND INDICATED THUS (X-X-X) SHALL BE PLACED UNIFORMLY BETWEEN EACH PERPENDICULAR FRAMING MEMBER.

**PLAN STUDS FOR BEAMS PARALLEL TO METAL DECK SPANS**



COLUMN BASE PLATE SCHEDULE			
MARK	BASE PLATE SIZE N x L x B	ANCHOR BOLTS - ASTM A36 THREADED ROD	EDGE DISTANCE
BP1	14" x 3/4" x 0'-10"	(4) 3/4" DIA. 15" MIN. EMBED	1-1/2"
BP2	15" x 1" x 0'-10"	(4) 1" DIA. 18" MIN. EMBED	1-1/2"

**NOTES:**

- ALL ANCHOR BOLTS SHALL BE ASTM A36 THREADED ROD.
- SET ANCHOR BOLTS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. ANCHOR BOLT TOLERANCES SHALL BE IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS.
- DIAMETER OF HOLES IN BASE PLATES MAY BE OVERSIZED BY 5/16" MAX. LARGER HOLES WILL REQUIRE 3"x3"x5/16" PLATE WASHERS
- STEEL FABRICATOR SHALL CONFIRM AS-BUILT LOCATION OF ANCHOR BOLTS PRIOR TO FABRICATION OF COLUMN BASE PLATES. NOTIFY ENGINEER OF LOCATIONS EXCEEDING SPECIFIED TOLERANCES.

**TYPICAL COLUMN BASE PLATE DETAILS**



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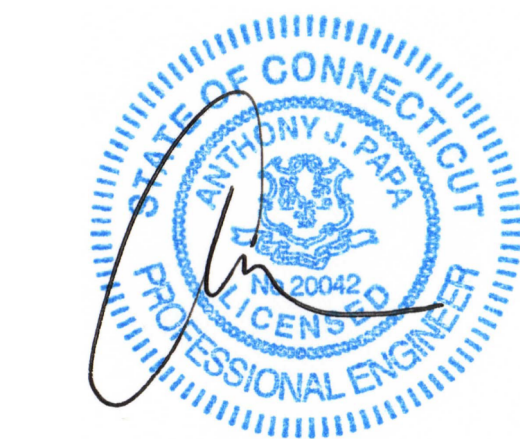
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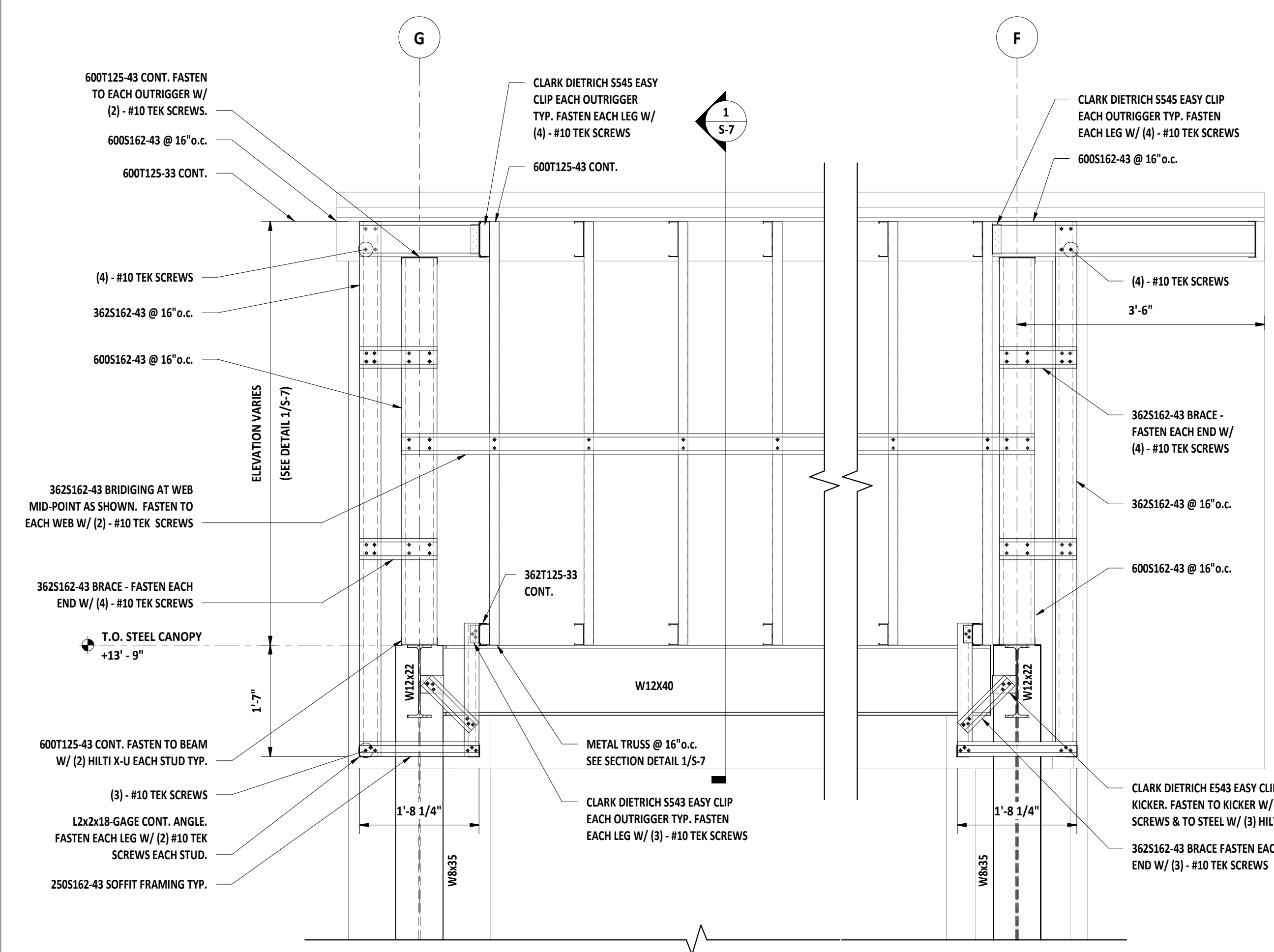
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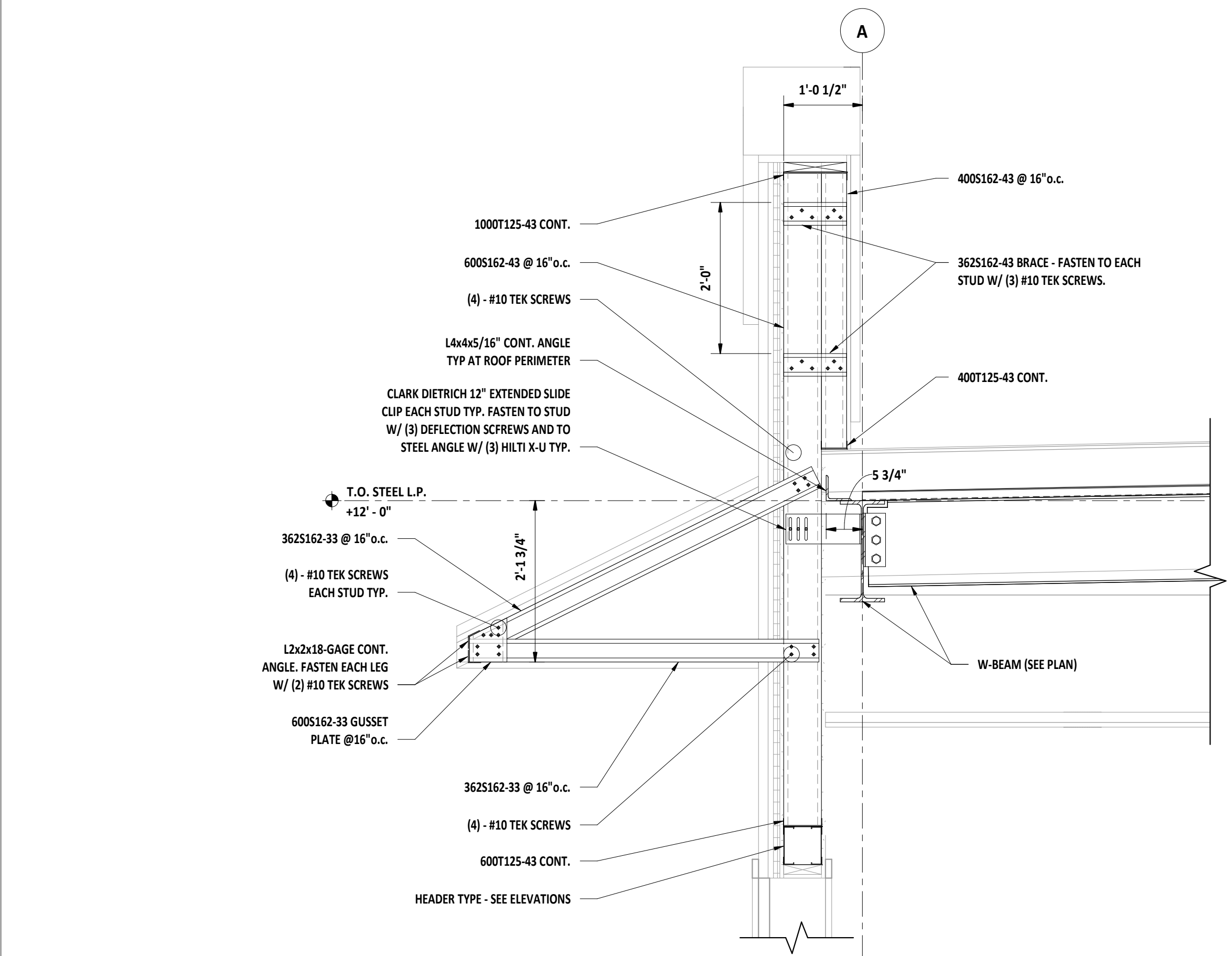
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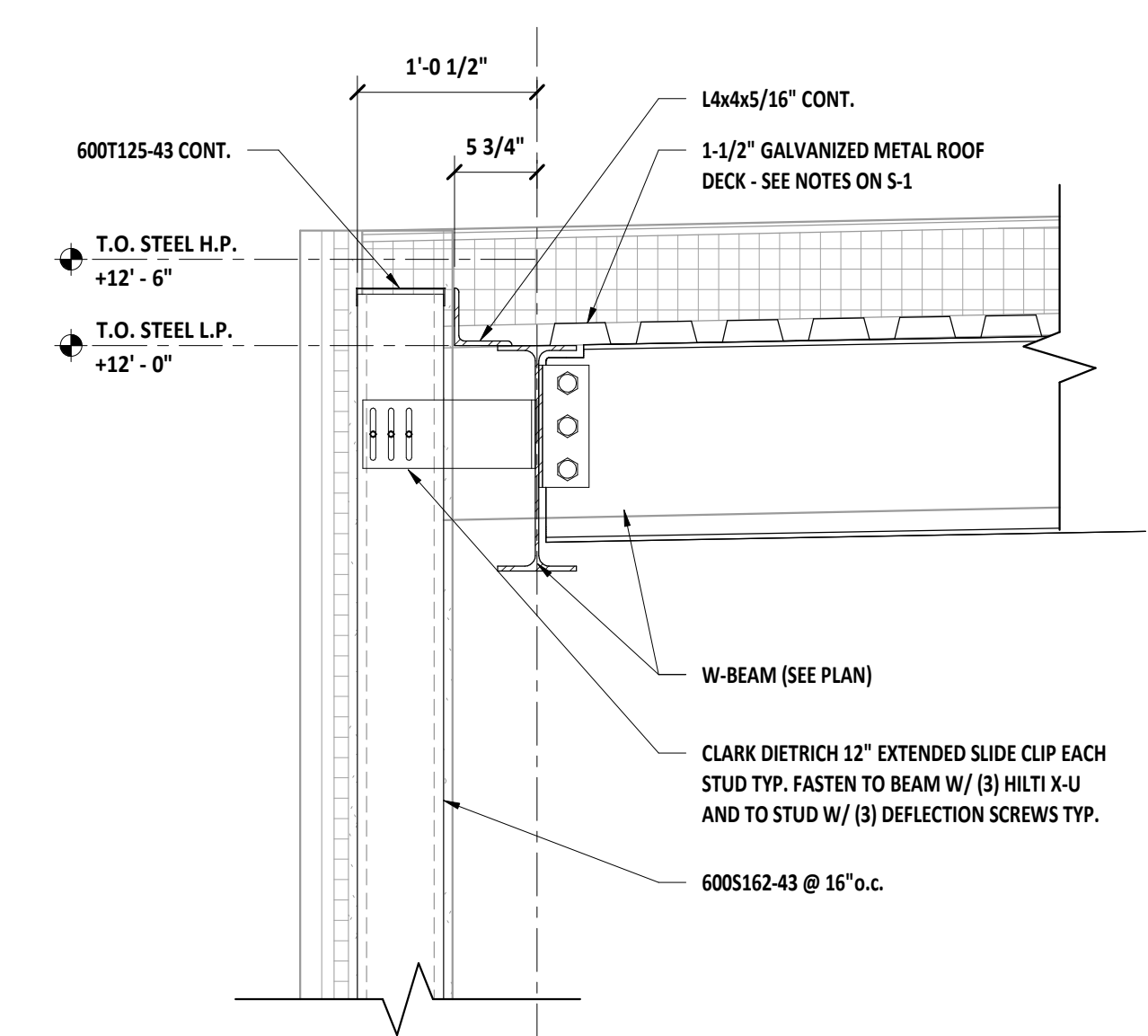
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SECTION DETAILS



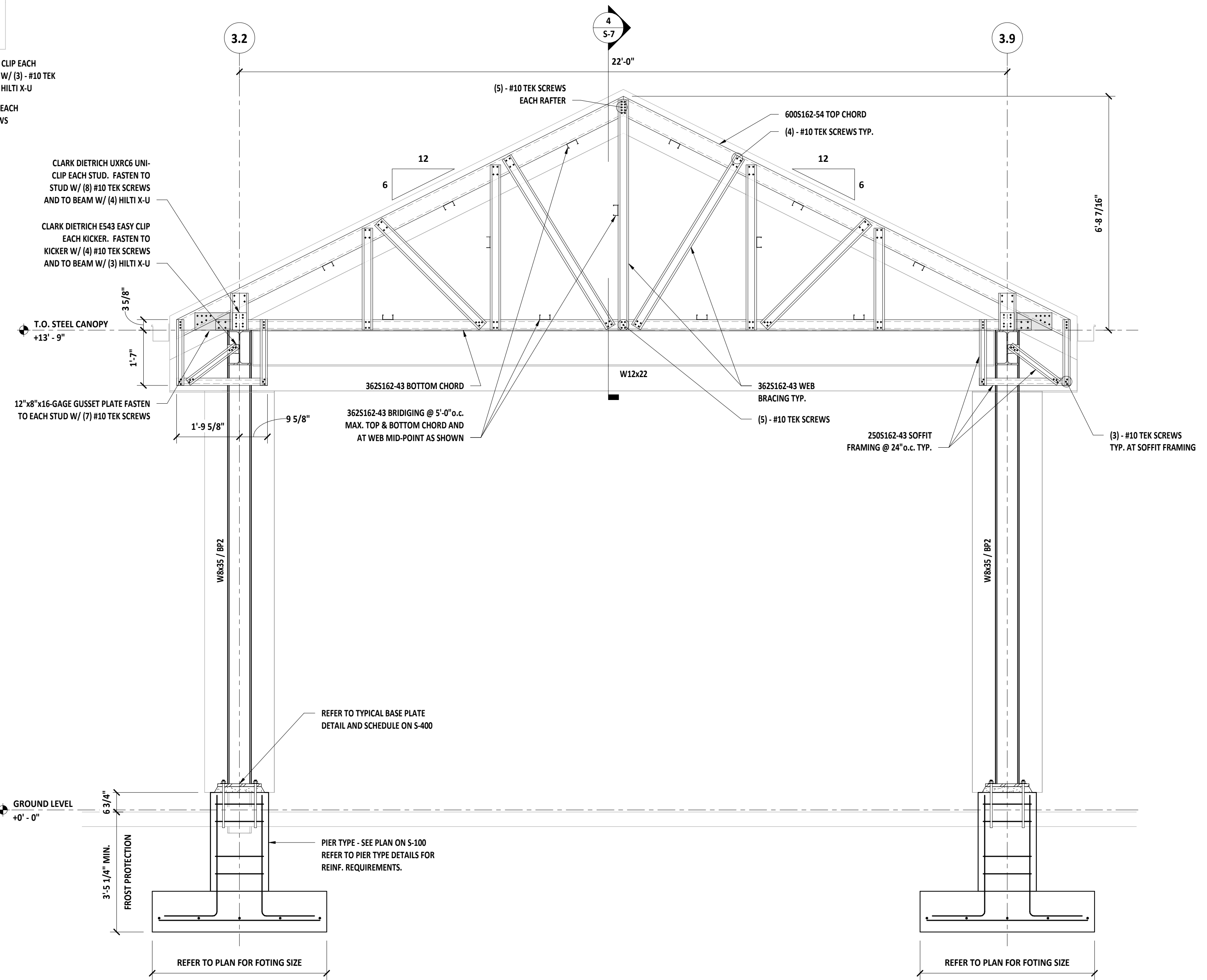
**4 SECTION AT PORT COCHERE**  
SCALE: 3/4" = 1'-0"



**3 SECTION AT PARAPET**  
SCALE: 3/4" = 1'-0"



**2 SECTION AT ROOF FRAMING**  
SCALE: 1" = 1'-0"



**1 SECTION AT PORT COCHERE**  
SCALE: 1/2" = 1'-0"



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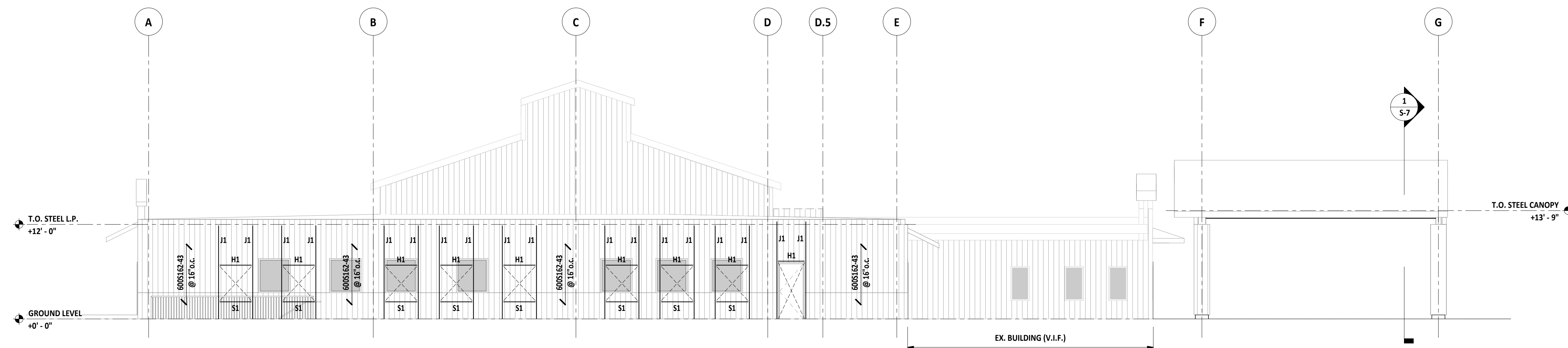
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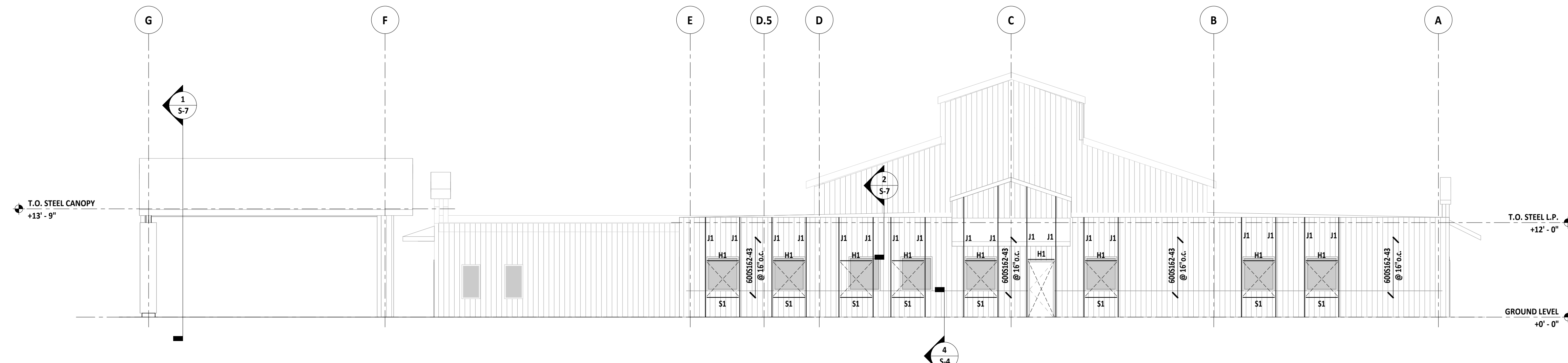
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DRAWING  
**ELEVATIONS**



**2 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"

- NOTES:
1. ALL WALL STUDS SHOULD BE BRACED W/ LATERAL BRACING. SEE DETAILS ON S-10.
  2. Hx INDICATES HEADER TYPE. SEE HEADER TYPE AND DETAILS ON SHEET S-10.
  3. Jx INDICATES JAMB TYPE. SEE JAMB TYPE AND DETAILS ON SHEET S-10.
  4. Sx INDICATES SILL TYPE. SEE SILL TYPE AND DETAILS ON SHEET S-10.



**1 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"

- NOTES:
1. ALL WALL STUDS SHOULD BE BRACED W/ LATERAL BRACING. SEE DETAILS ON S-10.
  2. Hx INDICATES HEADER TYPE. SEE HEADER TYPE AND DETAILS ON SHEET S-10.
  3. Jx INDICATES JAMB TYPE. SEE JAMB TYPE AND DETAILS ON SHEET S-10.
  4. Sx INDICATES SILL TYPE. SEE SILL TYPE AND DETAILS ON SHEET S-10.



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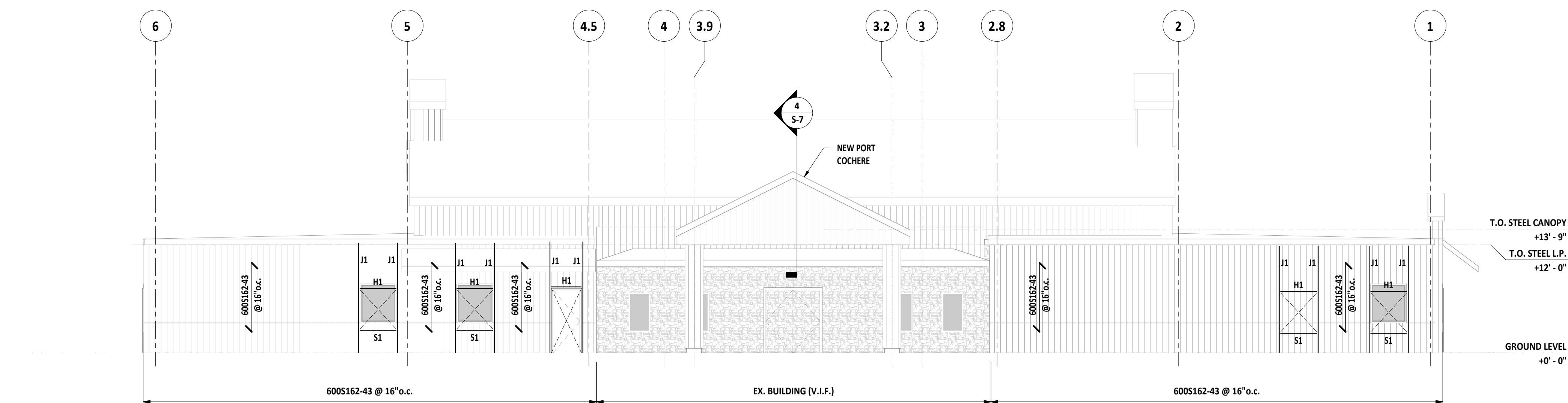
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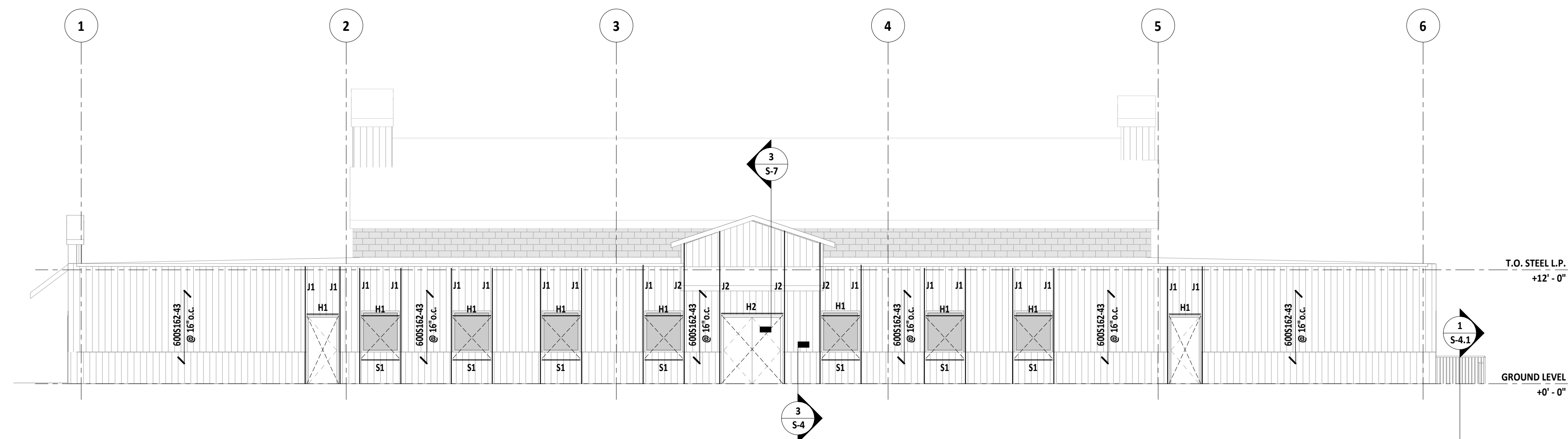
DRAWING  
**ELEVATIONS**



**2 NORTH ELEVATION**

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

- NOTES:
1. ALL WALL STUDS SHOULD BE BRACED W/ LATERAL BRACING. SEE DETAILS ON S-10.
  2. Hx INDICATES HEADER TYPE. SEE HEADER TYPE AND DETAILS ON SHEET S-10.
  3. Jx INDICATES JAMB TYPE. SEE JAMB TYPE AND DETAILS ON SHEET S-10.
  4. Sx INDICATES SILL TYPE. SEE SILL TYPE AND DETAILS ON SHEET S-10.



**1 SOUTH ELEVATION**

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

- NOTES:
1. ALL WALL STUDS SHOULD BE BRACED W/ LATERAL BRACING. SEE DETAILS ON S-10.
  2. Hx INDICATES HEADER TYPE. SEE HEADER TYPE AND DETAILS ON SHEET S-10.
  3. Jx INDICATES JAMB TYPE. SEE JAMB TYPE AND DETAILS ON SHEET S-10.
  4. Sx INDICATES SILL TYPE. SEE SILL TYPE AND DETAILS ON SHEET S-10.



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All products, fixtures, and equipment shall be installed in accordance with manufacturers' installation instructions and all applicable codes.

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The Contractor shall be responsible for construction means, methods, techniques, sequences, and safety precautions in connection with the work.



**PVE Engineering, P.C.**  
Bushnell on the Park  
100 Wells Street - Suite 2K  
Hartford, CT 06103  
860.522.3970  
860.522.3971 - fax



PROJECT NAME:  
**ALTERATIONS & ADDITIONS  
EAST WINDSOR COMMUNITY  
CENTER**

PROJECT ADDRESS:  
**28 ABBE ROAD  
EAST WINDSOR, CT 06088**

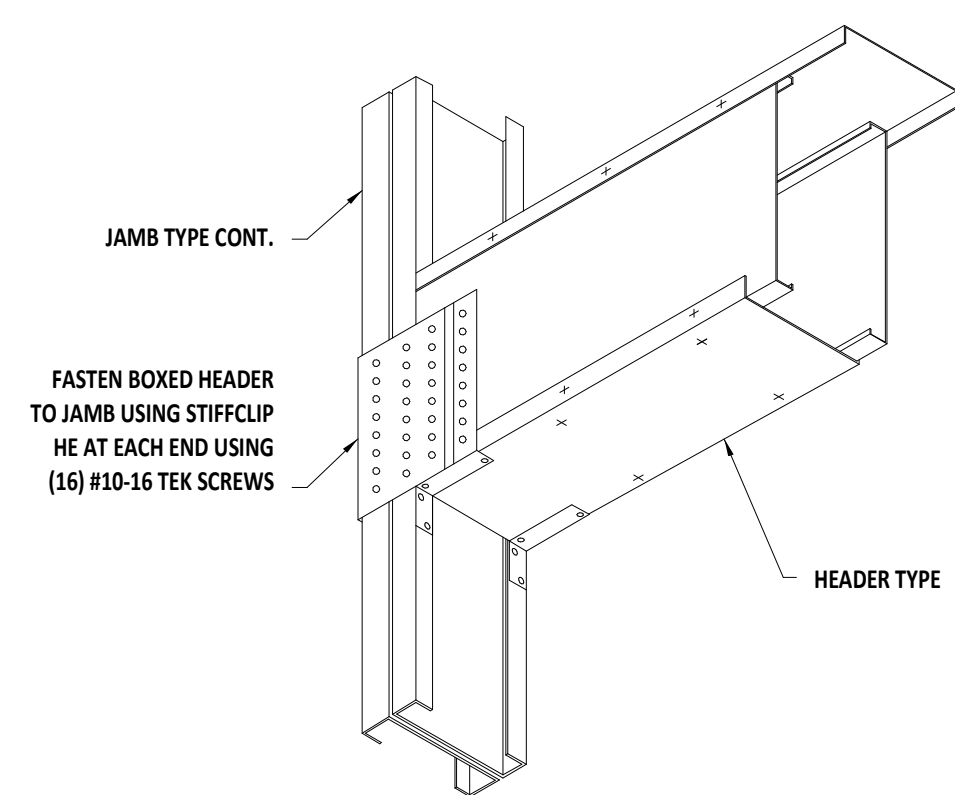
PROJ NO:  
**22051**

ISSUE DATE:  
**07/08/2022**

REVISION DATE:  
**1. 09/20/2022  
ISSUED FOR PERMIT**

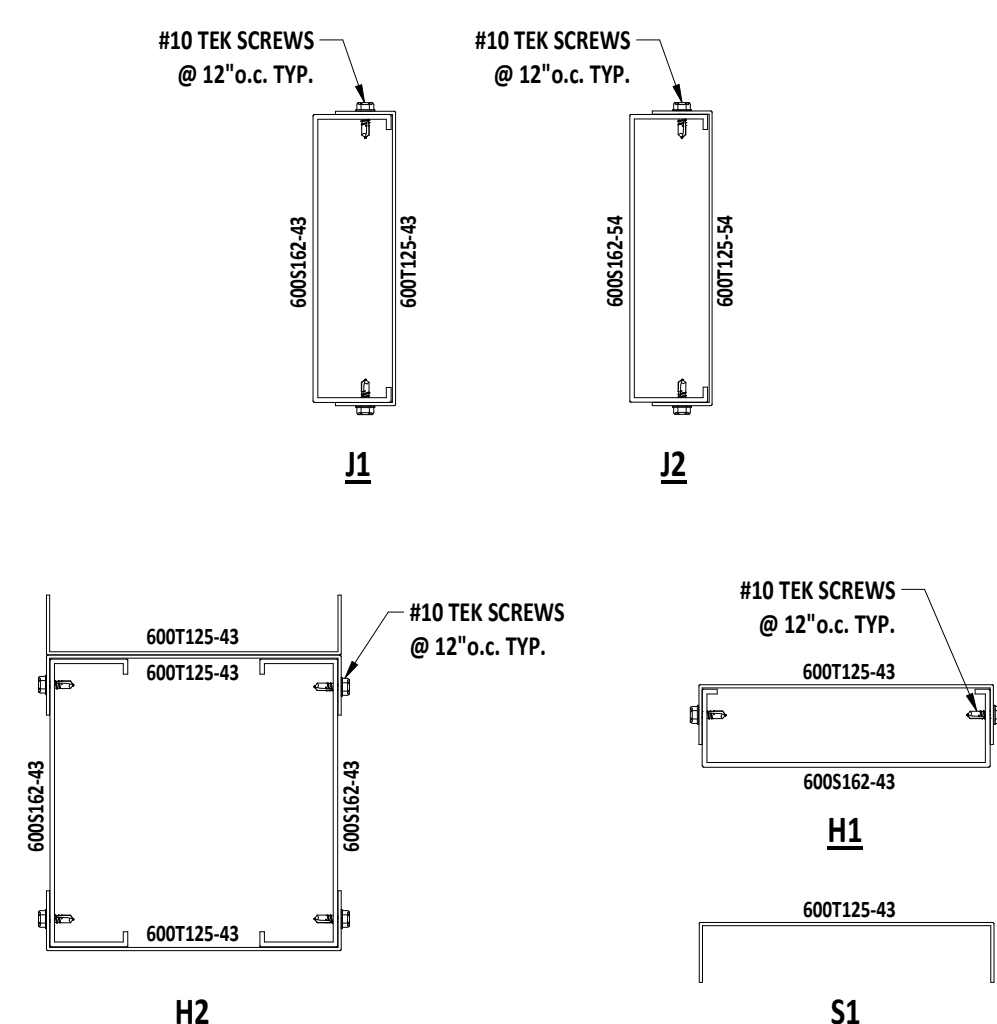
DRAWING  
**COLD-FORMED  
METAL FRMING  
DETAILS**

**S-10**

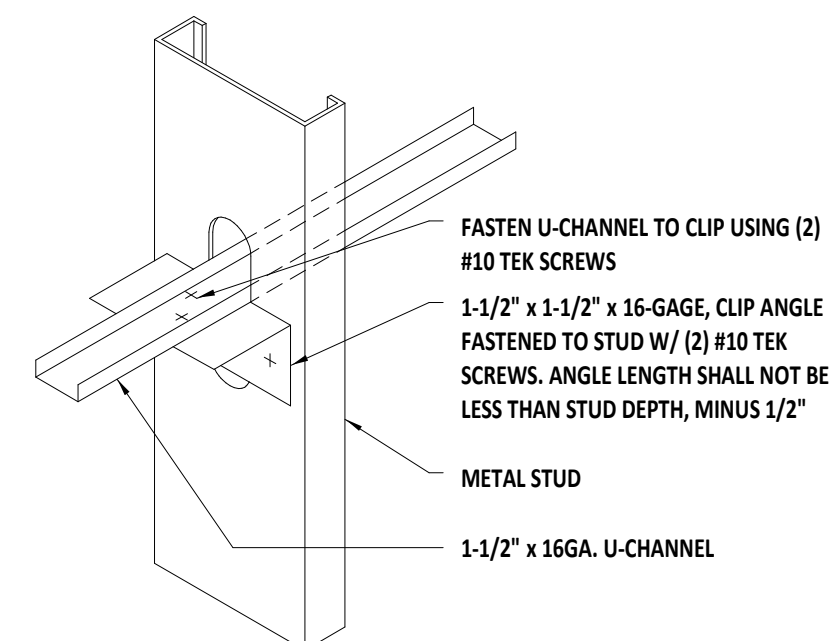


**JAMB AND HEADER DETAIL**

JAMB & HEADER CONNECTION SCHEDULE	
HDR / JAMB TYPE	CONNECTION DETAILS
J1 / J2	FASTEN JAMB TOP W/ DIETRICH FS CLIP ON ONE SIDE. FASTEN TO STEEL W/ (3) HILTI X-U AND TO STUD W/ (3) DEFLECTION SCREWS. FASTEN JAMB BOTTOM W/ A546 BY CLARK DIETRICH - FASTEN TO CONCRETE W/ (3) HILTI X-U (1-1/4" EMBED.) AND TO JAMB W/ (4) #10 TEK SCREWS.
H1	FASTEN EACH END OF HEADER W/ DIETRICH E545 EASYCLIP @ BOTTOM. FASTEN EACH LEG W/ (4) #10 TEK SCREWS. SEE TYP. BOXED HEADER TO JAMB CONNECTION DETAIL ON THIS SHEET.
H2	FASTEN EACH END OF HEADER W/ DIETRICH E545 EASYCLIP TOP & BOTTOM. FASTEN EACH LEG W/ (5) #10 TEK SCREWS. SEE TYP. BOXED HEADER TO JAMB CONNECTION DETAIL ON THIS SHEET.
S1	REFER TO TYP. SILL DETAIL ON THIS SHEET FOR CONNECTION.

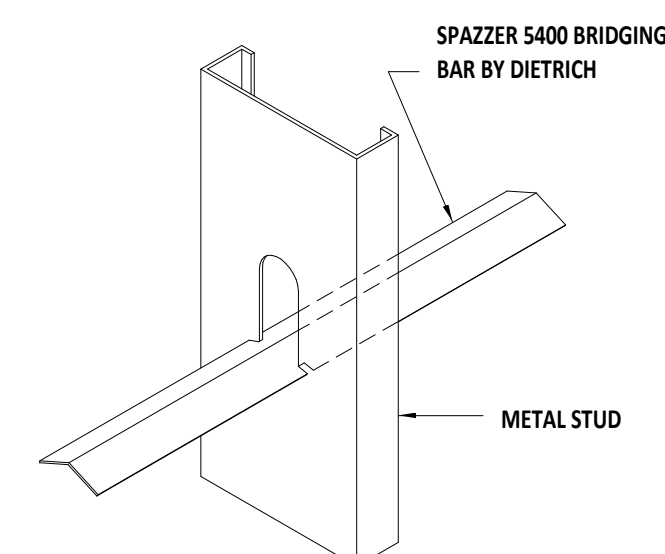


**1**  
5-10  
SCALE: 3" = 1'-0"  
**HEADER / JAMB / SILL TYPES**



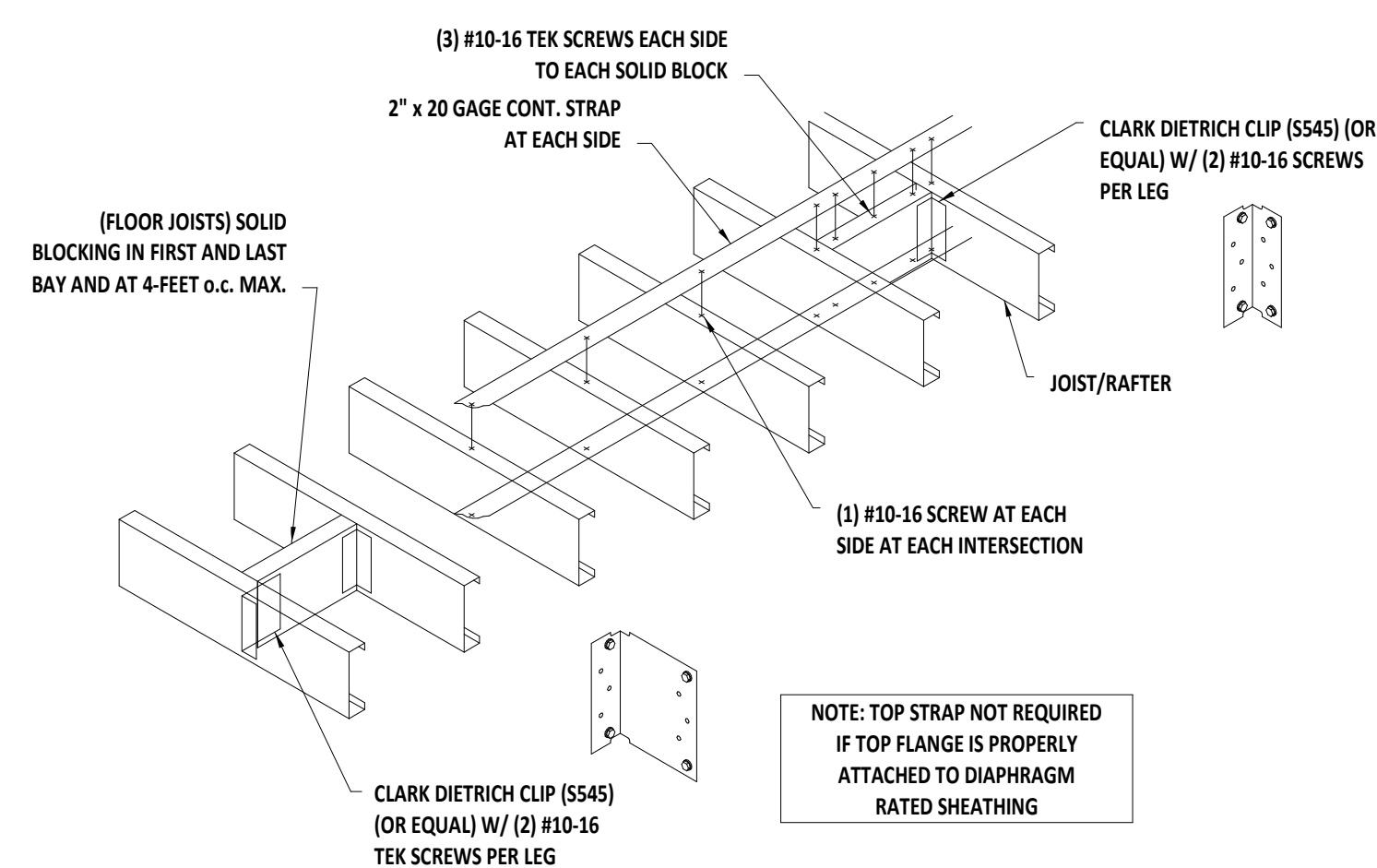
NOTE: ENSURE PUNCHOUT ALIGNMENT FOR LATERAL BRACING / BRIDGING. LATERAL BRACING / BRIDGING SHALL BE SPACED AT 48-INCHES ON-CENTER MAX. FAILURE TO INSTALL BRACING MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE FRAMING.

**COLD-ROLLED BRIDGING W/ CLIP ANGLE (ALTERNATE)**



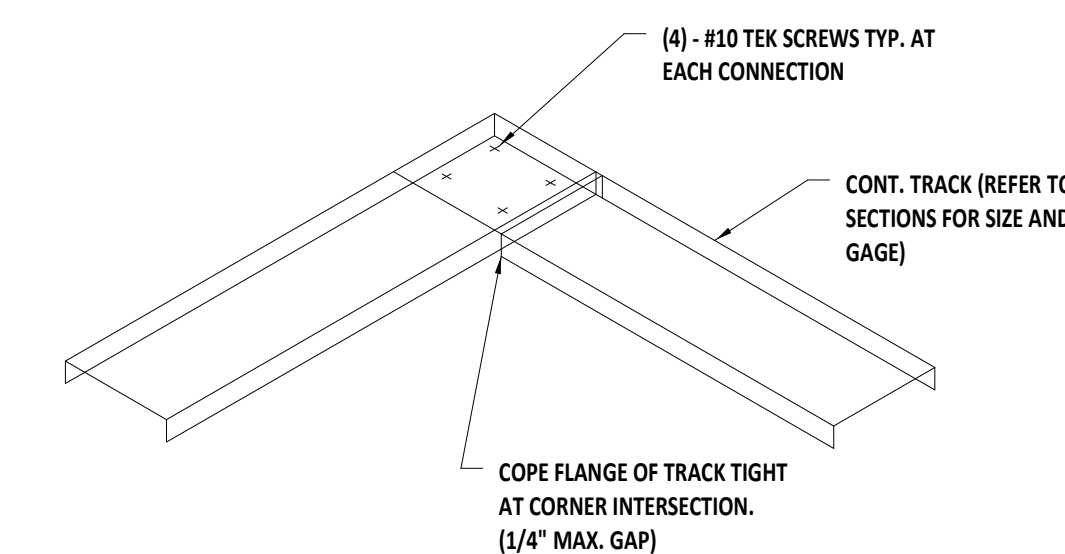
**BRIDGING BAR DETAIL**

**TYP. LATERAL BRIDGING DETAILS (FOR STUDS 8" & LESS)**



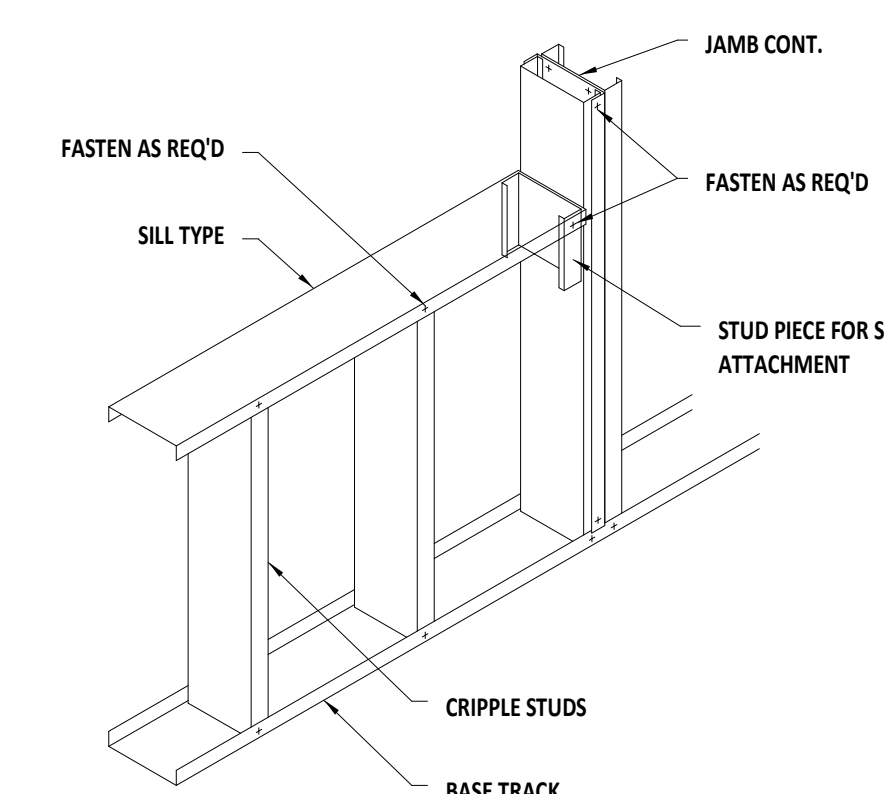
**FLOOR FRAMING (GREATER THAN 6" MEMBER)**

**TYPICAL BLOCK AND STRAP DETAILS @ 8'-0" o.c.**

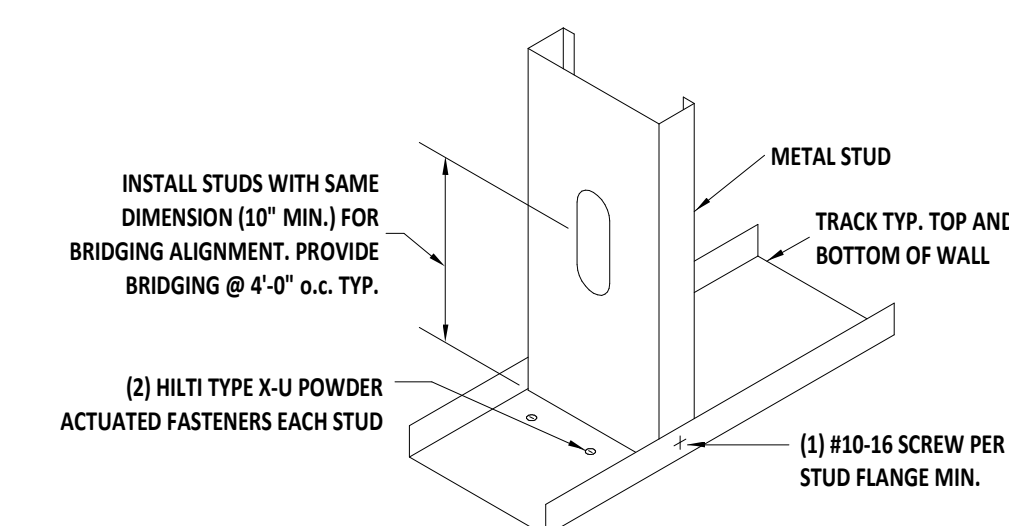


**TYP. TRACK CORNER CONNECTION DETAIL**

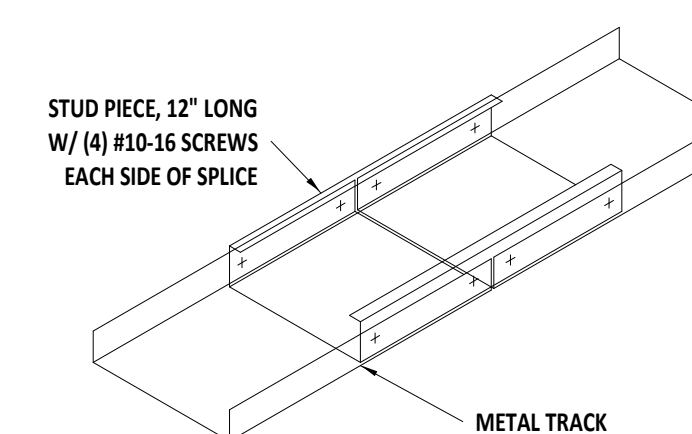
NOTE: WALL STUDS NOT SHOWN FOR CLARITY



**TYP. JAMB AND SILL DETAIL**



**TYP. STUD BASE DETAIL**



**TYP. TRACK SPLICE CONNECTION**



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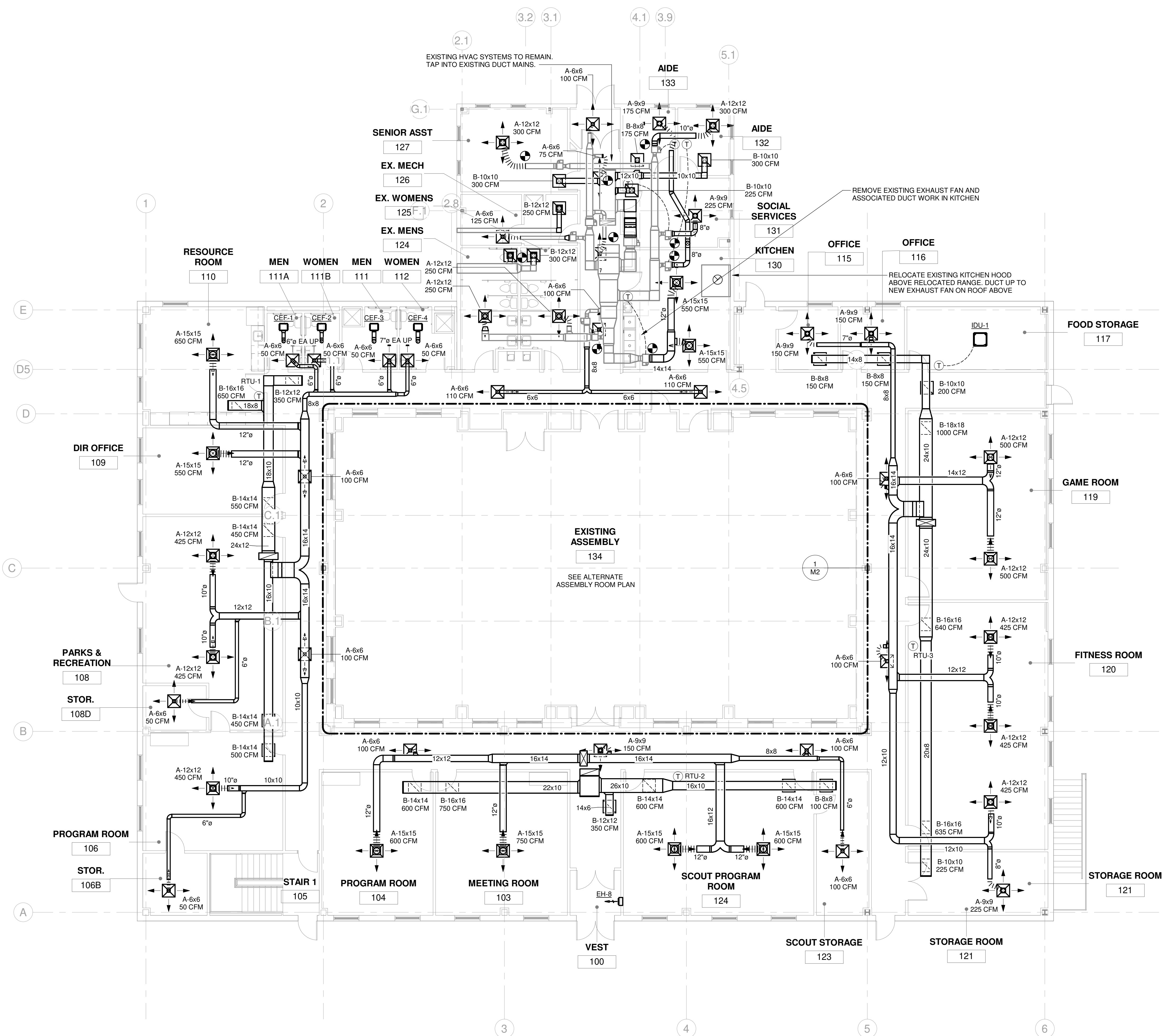
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**Acorn Consulting Engineers Inc.**  
Mechanical • Electrical Engineering for Building Systems  
R.D. Box 311 • FARMS VILLAGE PLAZA • 244 Farms Village Road  
West Simsbury, CT 06092 • (860) 651-1949 • Fax (860) 651-1957  
www.acornengineers.com

2 MECHANICAL BASEMENT PLAN  
1/8" = 1'-0"



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



PROJECT NAME:  
**ADDITION/REMODEL  
SENIOR CENTER**

PROJECT ADDRESS:  
**28 Abbe Road  
East Windsor, CT  
06088**

PROJ. NO:  
**2021.33**

ISSUE DATE:  
**10/11/2022**

REVISION DATE:

DRAWING  
**MECHANICAL  
BASEMENT &  
FLOOR  
PLAN**

**M1**



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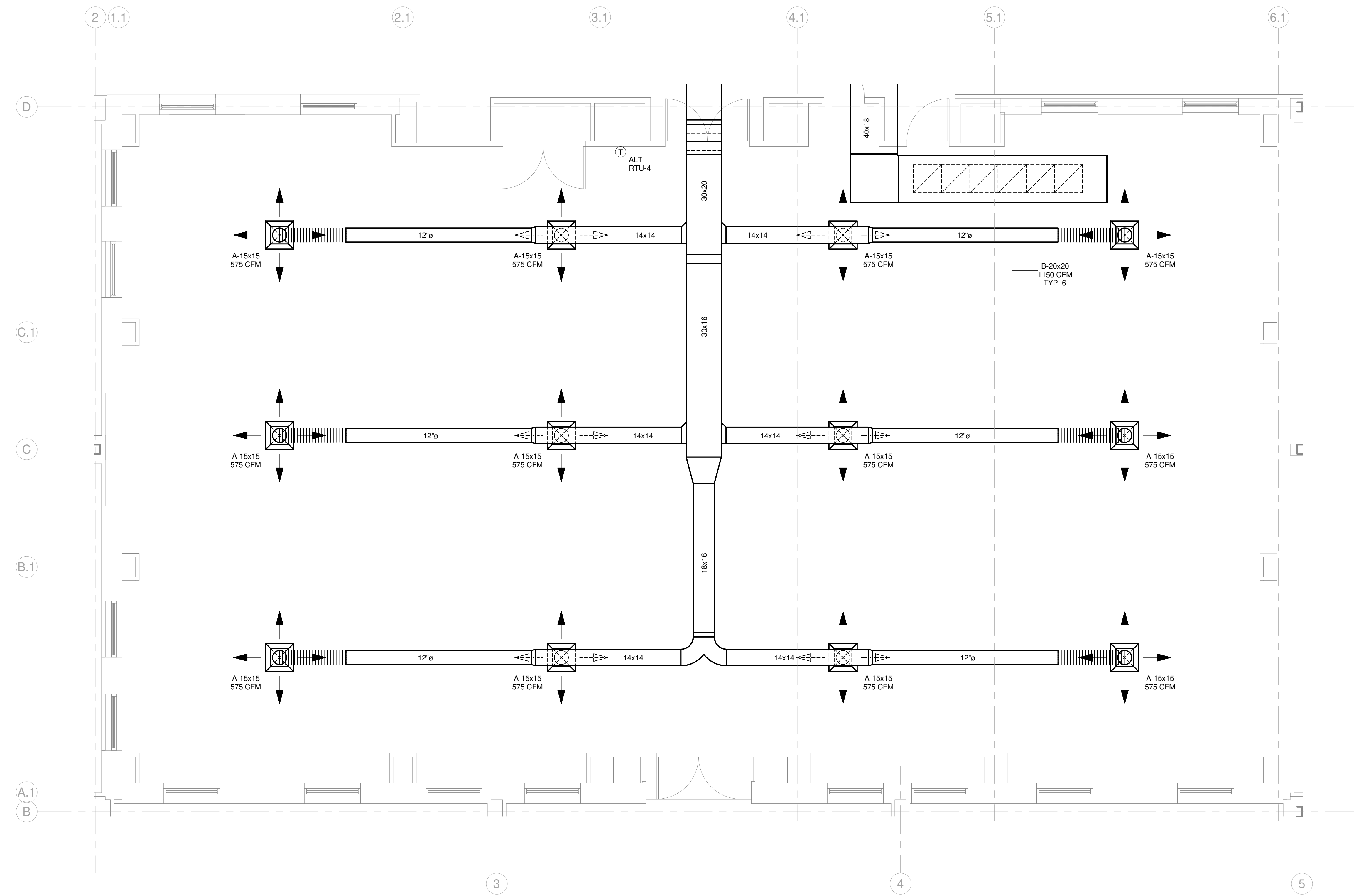
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1 ALTERNATE ASSEMBLY ROOM PLAN  
1/4" = 1'-0"



PROJECT NAME:  
ADDITION/REMODEL  
SENIOR CENTER

PROJECT ADDRESS:  
28 Abbe Road  
East Windsor, CT  
06088

PROJ NO:  
2021.33  
ISSUE DATE:  
10/11/2022  
REVISION DATE:

DRAWING  
MECHANICAL  
ALTERNATE  
ASSEMBLY  
PLAN

M2



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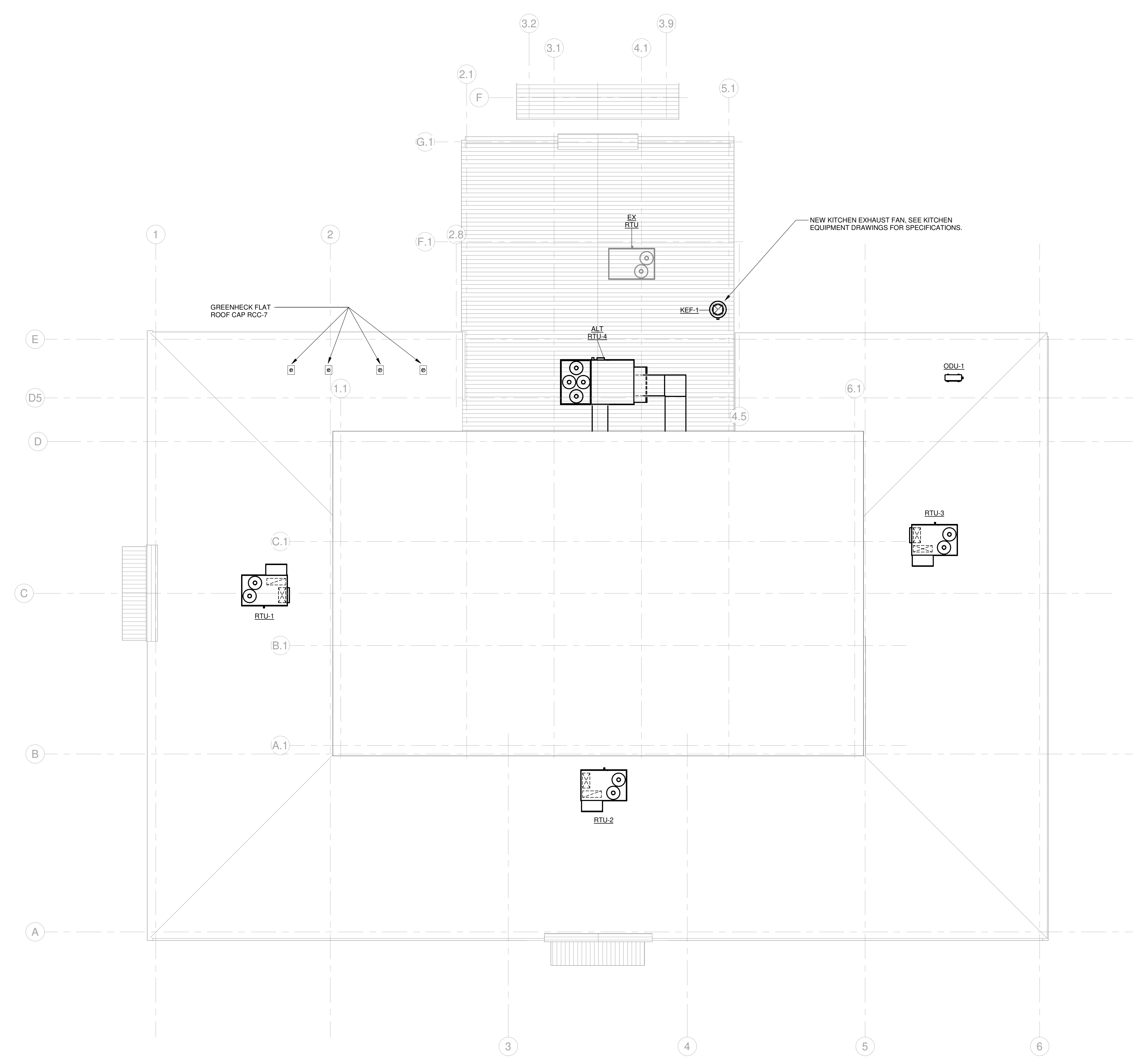
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1 MECHANICAL ROOF PLAN  
1/8" = 1'-0"



PROJECT NAME:  
ADDITION/REMODEL  
SENIOR CENTER

PROJECT ADDRESS:  
28 Abbe Road  
East Windsor, CT  
06088

PROJ NO:  
2021.33

ISSUE DATE:  
10/11/2022

REVISION DATE:

DRAWING  
**MECHANICAL  
ROOF PLAN**

**M3**



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**PACKAGED GAS ROOFTOP UNIT SCHEDULE**

TAG	MANUFACTURER/MODEL	DESIGN CONDITIONS			DX COOLING RATINGS			NATURAL GAS HEATING CAPACITY			ELECTRICAL DATA					WEIGHT LBS	ACCESSORIES							
		OA °F	EAT DB °F	WB °F	TOTAL CAP. MBH	SENSIBLE CAP. MBH	EER	IEER	INPUT MBH	OUTPUT MBH	AFUE	CFM	RPM	ESP in.WC	TSP in.WC			FAN BHP	MIN OA CFM	VOLTS	HZ	PHASE	MCA	MCOCP
RTU-1	CARRIER 48FCM08A2A5-6F5C0	95°F	80°F	67°F	90.5	66.0	11.2	15.0	180	148	80%	3,000	-	1.0	1.11	1.94	425	208	60	3	44	50	743	1-4
RTU-2	CARRIER 48FCM08A2A5-6F5C0	95°F	80°F	67°F	90.5	66.0	11.2	15.0	180	148	80%	3,000	-	1.0	1.11	1.94	375	208	60	3	44	50	743	1-4
RTU-3	CARRIER 48FCM08A2A5-6F5C0	95°F	80°F	67°F	90.5	66.0	11.2	15.0	180	148	80%	3,000	-	1.0	1.11	1.94	500	208	60	3	44	50	743	1-4
ALT RTU-4	CARRIER 48LCTA20E7A5-4N5C0	95°F	80°F	67°F	203.2	160.6	11.2	16.8	400	324	81%	7,000	-	1.0	1.21	8.26	1,600	208	60	3	97.6	125	2,920	2-5

NOTES:  
1. SELECTIONS BASED ON CARRIER, APPROVED EQUIVALENT BY TRANE & YORK.  
2. PREMIUM EFFICIENCY MOTORS ABOVE 1 HP.  
3. R410A REFRIGERANT.  
4. BASED ON 0° WINTER OUTDOOR DESIGN TEMPERATURE.

ACCESSORIES:  
1. 14" ROOF CURB  
2. STD LEAK ENTRY ECONO X WITH BARO RELIEF, W7220 CONTROL, MEETS CALF. TITLE 24 FDD  
3. NON-FUSED DISCONNECT  
4. HINGED PANELS AND POWERED CONVENIENCE OUTLET  
5. ROOF CURB ADAPTER

**GENERAL MECHANICAL NOTES :**

- ALL WORK IS NEW UNLESS NOTED OTHERWISE.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CODE.
- ALL PIPING & DUCT SYSTEMS SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALLS UNLESS SPECIFICALLY NOTED OTHERWISE.
- DUCTWORK DIMENSIONS INDICATED ON PLANS ARE CLEAR INSIDE DIMENSIONS. PROVIDE TURNING VANES IN MITERED FITTINGS.
- COORDINATE DUCTWORK & PIPE ROUTING WITH ALL TRADES. PROVIDE OFFSETS & FITTINGS AS REQUIRED FOR INSTALLATION.
- REFER THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT PLACEMENT OF DIFFUSERS, GRILLES & REGISTERS.
- SOUND LINE RETURN PLENUMS & FIRST 10 FEET OF SUPPLY DUCT.
- REFER TO PLUMBING PLANS FOR CONDENSATE PIPING & TERMINATION
- REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ALL SERVICE/ACCESS CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE PRIOR TO INSTALLATION OF EQUIPMENT, PIPING, AND DUCTWORK
- PROVIDE ACCESS DOORS FOR DAMPERS LOCATED IN NON ACCESSIBLE SPACES, INCLUDING INACCESSIBLE CEILINGS. ACCESS DOORS SHALL MATCH SURROUNDINGS (COLOR BY ARCHITECT) AND SHALL HAVE FIRE RATING TO MATCH WALL OR CEILING SERVING.
- COORDINATE THE WORK OF THIS PROJECT WITH EXISTING BUILDING ELEMENTS AND EQUIPMENT. ALL WORK SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
- COORDINATE THE INSTALLATION OF GRILLES WITH EXISTING CEILING DEVICES.
- VERIFY ALL THERMOSTAT TYPES & LOCATIONS WITH OWNER PRIOR TO ORDERING.
- ALL BATHROOM, KITCHEN & DRYER EXHAUST OUTLETS MUST BE 3' MINIMUM FROM OPERABLE WINDOW OPENINGS.

**SYMBOLS LIST**

AD	ACCESS DOOR
AF	AIR FURNACE
ARU	AIR HANDLING UNIT
BC	BRANCH CONTROLLER
BTU	BRITISH THERMAL UNIT
BTUH or BTUH	BRITISH THERMAL UNIT PER HOUR
CEF	CEILING EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
DB	DRY BULB & DRYER BOX
DBF	DRYER BOOSTER FAN
DN	DOWN
EA	EXHAUST AIR
EDB	ENTERING AIR DRY BULB
EDC	ELECTRIC DUCT COIL
EER	ENERGY EFFICIENCY RATIO
EH	ELECTRIC HEATER
ERV	ENERGY RECOVERY VENTILATOR
E.S.P.	EXTERNAL STATIC PRESSURE
EWB	ENTERING AIR WET BULB
EXH	EXHAUST
FA	FRESH AIR
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER or HEAT PUMP
HRB	HEAT RECOVERY BOX
IDU	INDOOR UNIT
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN.W.G. / IN.W.C.	INCHES WATER GAUGE / INCHES WATER COLUMN
KW	KILOWATTS
LDB	LEAVING AIR DRY BULB
LWD	LEAVING AIR WET BULB
MAU	MAKEUP AIR UNIT
MBH	1,000 BTU/H
MCA	MINIMUM CURRENT AMPS
MOP / MCOCP	MAXIMUM OVER CURRENT PROTECTION
OA	OUTDOOR AIR
ODU	OUTDOOR UNIT
RA	RETURN AIR
REF	ROOF EXHAUST FAN
REFRIG	REFRIGERANT
RET	RETURN
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SEER	SEASON ENERGY EFFICIENCY RATIO
SUP	SUPPLY
T.S.P.	TOTAL STATIC PRESSURE
UH/CH	UNIT HEATER/CABINET UNIT HEATER
MD	MOTORIZED DAMPER
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
T	THERMOSTAT
OR	SUPPLY OR FRESH AIR DUCT (UP/DOWN)
OR	RETURN OR EXHAUST AIR DUCT (UP/DOWN)
OR	ELBOW, TURNED DN
OR	ELBOW, TURNED UP
OR	CONNECT TO EXISTING
OR	NEW EQUIPMENT
OR	NEW DUCT
OR	EXHAUST DUCT
OR	REMOVE
OR	EXISTING TO REMAIN
OR	NEW FLEX DUCT
OR	REFRIGERANT PIPE
OR	DUCT SIZE (WIDTH x HEIGHT) IN INCHES
OR	ROUND DUCT SIZE (DIAMETER) IN INCHES
OR	CEILING EXHAUST FAN
OR	SUPPLY DIFFUSER W/ AIR FLOW DIRECTION & RETURN GRILLE. SEE SCHEDULE FOR INFO.
OR	2-WAY DIFFUSER (BLOCK OFF FLOW IN DIRECTION OF HATCHED AREAS)
OR	DIFFUSER TYPE & SIZE
OR	TOTAL CFM

**EXHAUST FAN SCHEDULE**

TAG	MANUFACTURER/MODEL	CFM	ESP in. WC	HP	WATTS	RPM	VOLTS	SOUND DATA	WEIGHT LBS	CONTROL	SERVICE	ACCESSORIES
CEF-1&2	GREENHECK SP-A90	80	0.25	-	16	900	120/1	0.4 SONES	12	MOTION SENSOR	MENS / WOMENS	NONE
CEF-3&4	GREENHECK SP-A90-130-VG	120	0.25	-	12	1041	120/1	2.0 SONES	12	MOTION SENSOR	MENS / WOMENS	NONE

NOTES:  
1. ALL OTHER SELECTIONS BASED ON GREENHECK, ACCEPTABLE APPROVED EQUIVALENTS BY DELTA BREEZ & COOK.  
2. MOTORS 1 HP AND ABOVE SHALL BE PREMIUM EFFICIENCY.

**ELECTRIC HEATER SCHEDULE**

TAG	MANUFACTURER/MODEL	CFM	VOLTS	PHASE	POWER KW	CAPACITY MBH	AMPS	ACCESSORIES
EH-1	QMARK AWH4083F	100	208	3	4.0	-	11.1	PROVIDE MODEL AWH5 RECESSED FRAME, MOUNTED THERMOSTAT.
EH-2	NOT USED							
EH-3-7	QMARK IUH520	270	208	3	5.0	-	13.8	WALL/CEILING BRACKET, WIRED THERMOSTAT.
EH-8 & 9	QMARK AWH3150F	100	120	1	1.5	-	12.5	PROVIDE MODEL AWH5 RECESSED FRAME, MOUNTED THERMOSTAT.

**HEAT PUMP SYSTEM UNIT SCHEDULE**

TAG	INDOOR UNIT MODEL	OUTDOOR UNIT MODEL	SERVING	TOTAL COOLING MBH	HEATING MBH	FAN CFM	ESP *WC	EER (SEER)	HSPF (COP)	INDOOR UNIT ELECTRICAL VOLTS/PHASE HZ	AMPS	MCOCP	OUTDOOR UNIT ELECTRICAL VOLTS/PHASE HZ	MCA	MCOCP	ACCESSORIES
IDU/ODU-1	40MBCQ12--3	38MARBQ12AA3	FOOD STOR	16.1	11.7	400	-	12.5	10.6	POWERED BY OUTDOOR UNIT	208	1	60	15	20	ALL

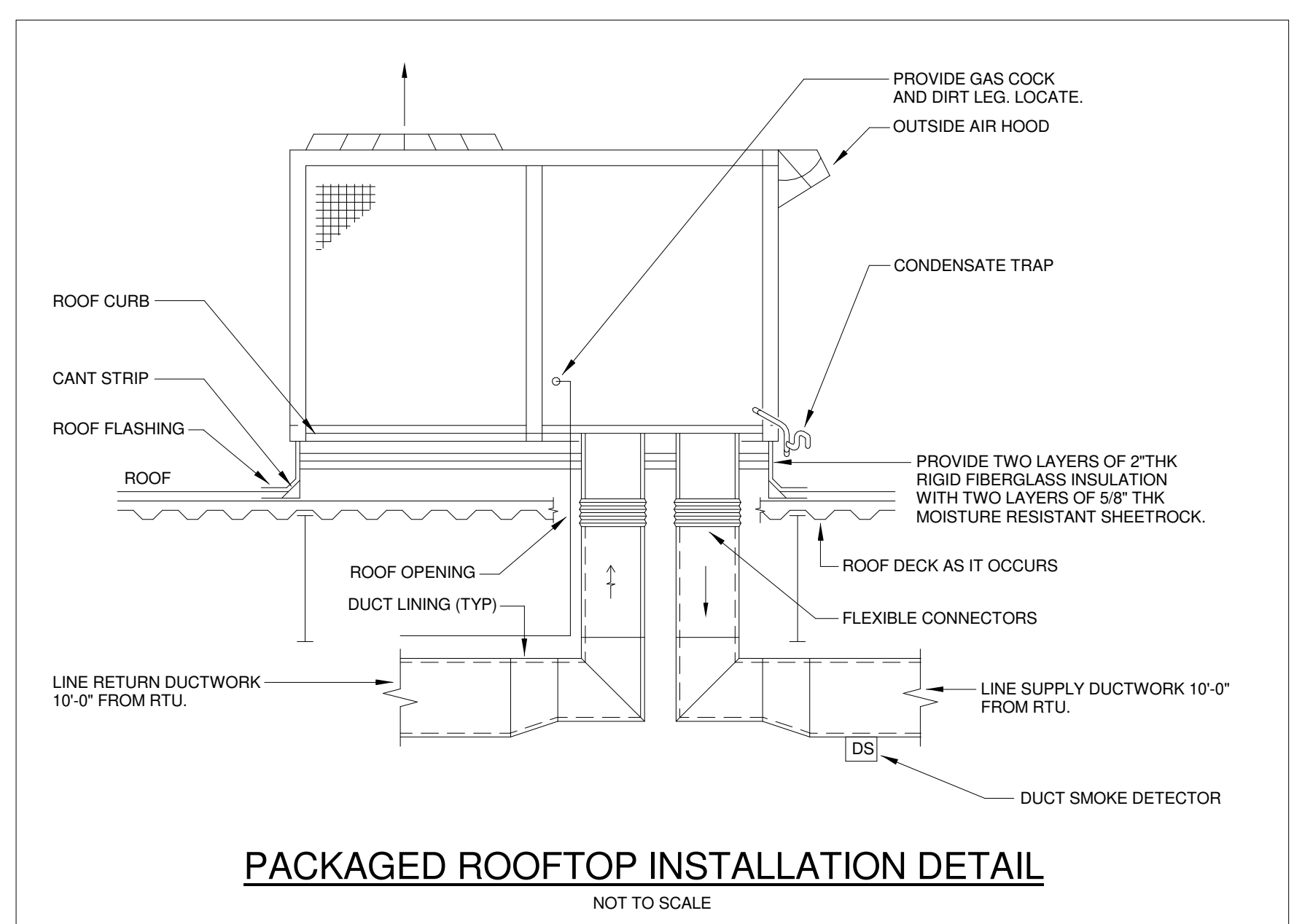
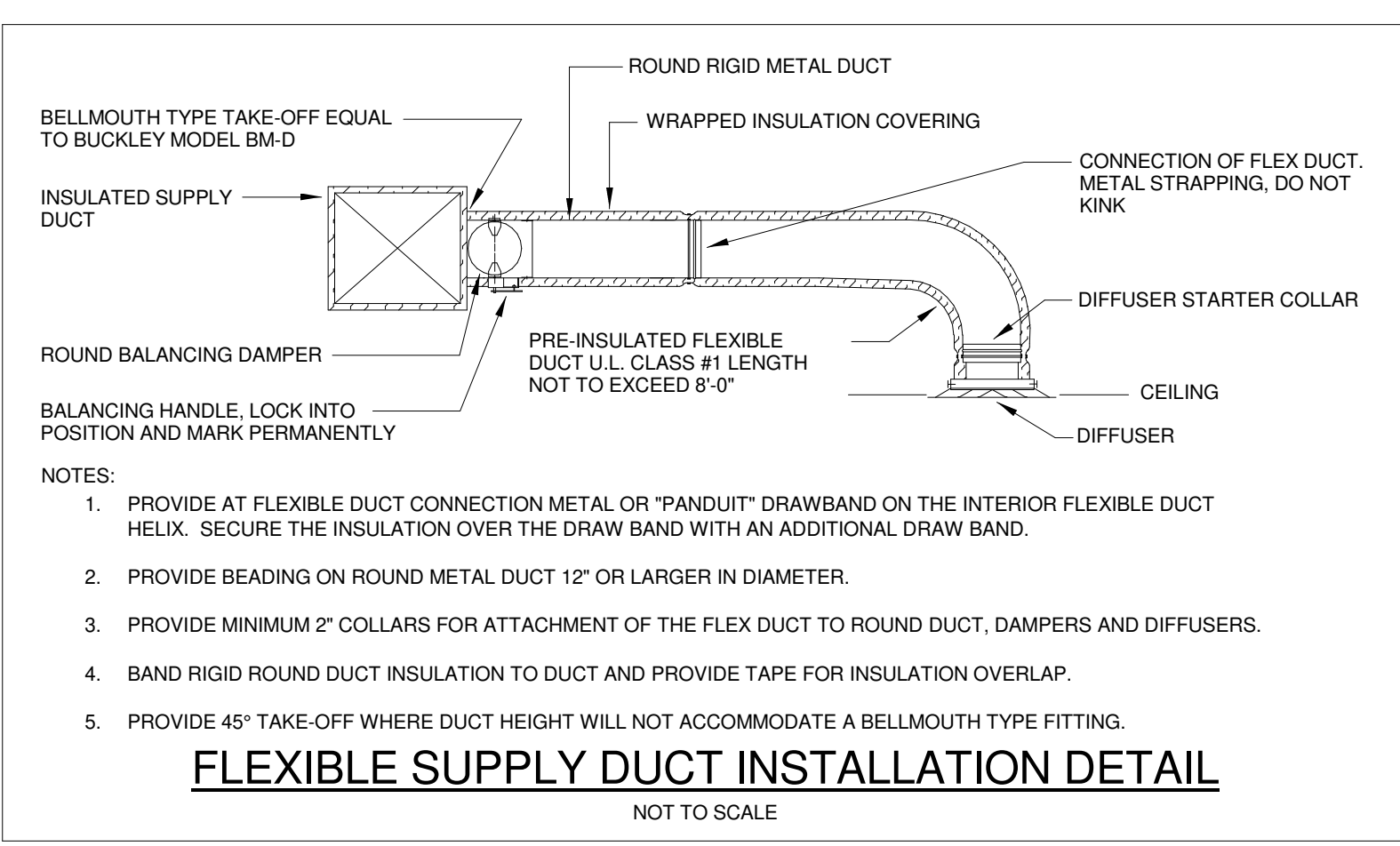
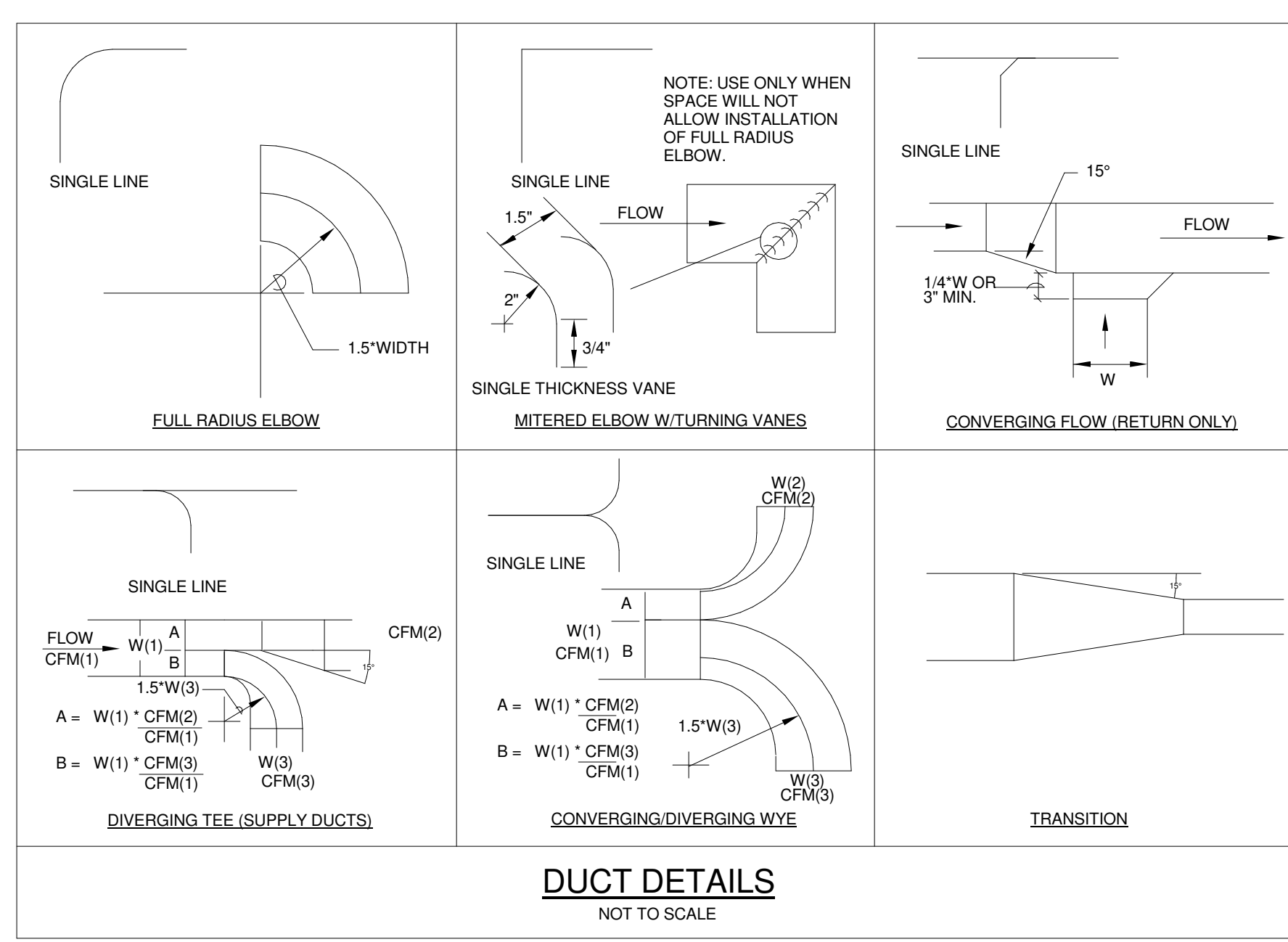
NOTES:  
1. SELECTION BASED ON CARRIER, ACCEPTABLE EQUIVALENT BY LG, MITSUBISHI, FUJITSU & DAIKEN.  
2. R410A REFRIGERANT.  
3. RUN ALL REFRIGERANT PIPING FROM IDUS TO ODUS. PROVIDE ALL REFRIGERANT PIPING & SPECIALTIES. INSTALL PER MANUFACTURERS INSTRUCTIONS.  
4. HEATING CAPACITIES ARE BASED @ 5°F OUTSIDE AIR TEMPERATURE.

ACCESSORIES:  
1. PROVIDE WIRED THERMOSTAT  
2. CONDENSATE PUMP, (IF REQUIRED, SEE PLUMBING PLANS).  
3. CONDENSATE UNIT SHUT DOWN SAFETY SWITCH  
4. ALL REFRIGERANT LINES & ACCESSORIES: FACTORY SIZED.  
5. DISCONNECT SWITCH (BY ELECTRICAL CONTRACTOR).

**REGISTERS, GRILLES AND DIFFUSERS SCHEDULE**

TAG	MANUF. MODEL	MATERIAL	FINISH	BORDER	SERVICE	DAMPER	SIZE	REMARKS
A	PRICE AMD	ALUMINUM	B12	24X24 LAY-IN	CEILING SUPPLY DIFFUSER	OPPOSED BLADE	SEE PLAN	NONE
B	PRICE 635D	ALUMINUM	B12	24X24 LAY-IN	CEILING RETURN GRILLE	OPPOSED BLADE	SEE PLAN	NONE

NOTES:  
1. SELECTIONS BASED ON PRICE, EQUIVALENT MANUFACTURERS BY TITUS & METALAIR.  
2. SEE PLANS FOR NECK SIZES, AND LINEAR DIFFUSER LENGTHS.  
3. THROW PATTERNS 4-WAY UNLESS OTHERWISE SHOWN ON PLANS.  
4. COORDINATE MOUNTING TYPE WITH ARCHITECTURE. COLOR BY OWNER



PROJECT NAME:  
**ADDITION/REMODEL SENIOR CENTER**

PROJECT ADDRESS:  
**28 Abbe Road East Windsor, CT 06033**

PROJ. NO:  
**2021.33**

ISSUE DATE:  
**10/11/2022**

REVISION DATE:



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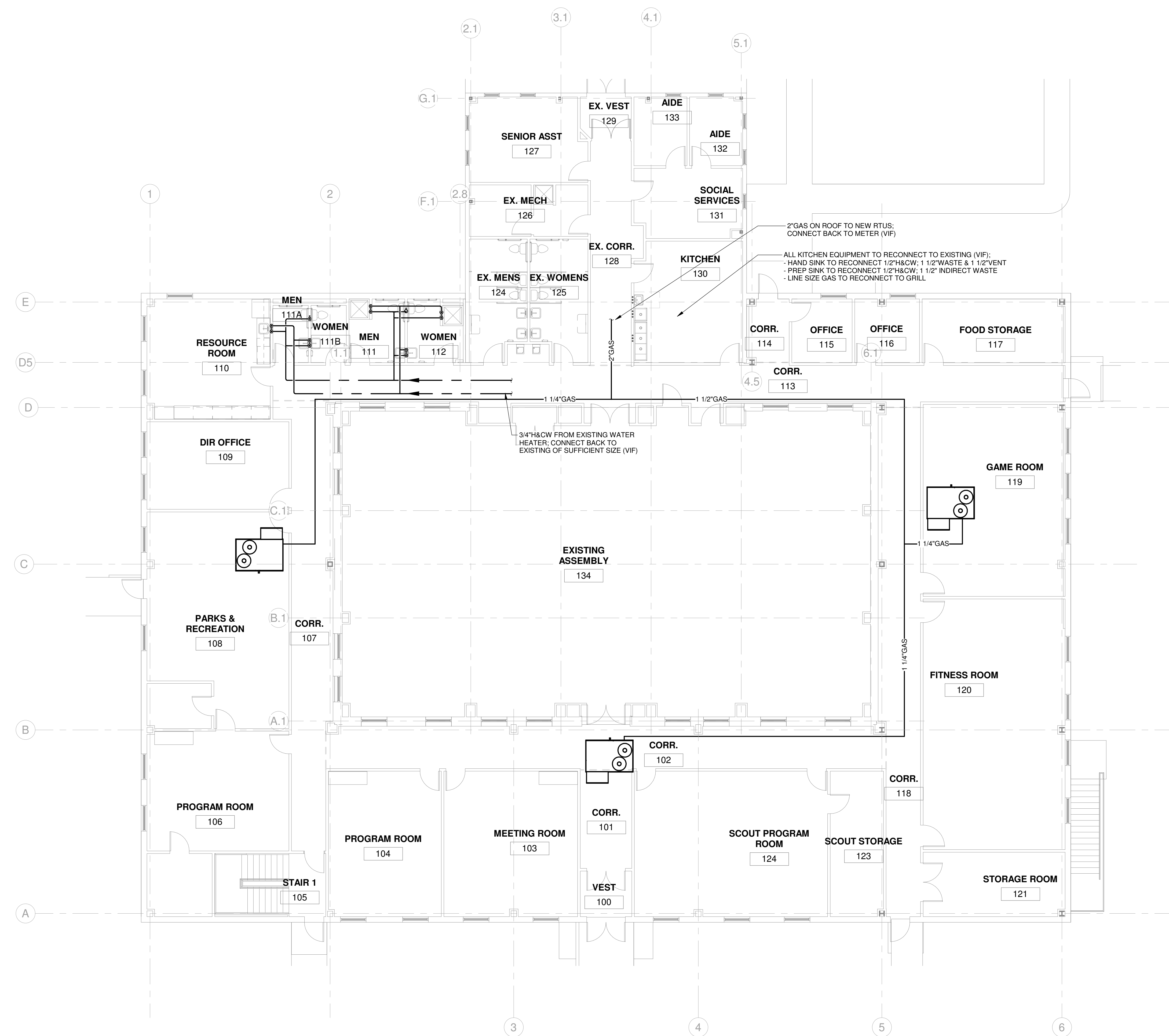
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1 PLUMBING FLOOR PLAN - Water & Gas  
1/8" = 1'-0"



PROJECT NAME:  
Alterations & Additions  
East Windsor  
Community Center

PROJECT ADDRESS:  
28 Abbe Road  
East Windsor, CT  
06088

PROJ NO:  
2021.33  
ISSUE DATE:  
10/11/2022  
REVISION DATE:

DRAWING  
**FLOOR  
PLAN - FIRE  
& PLUMBING**

**FP1**



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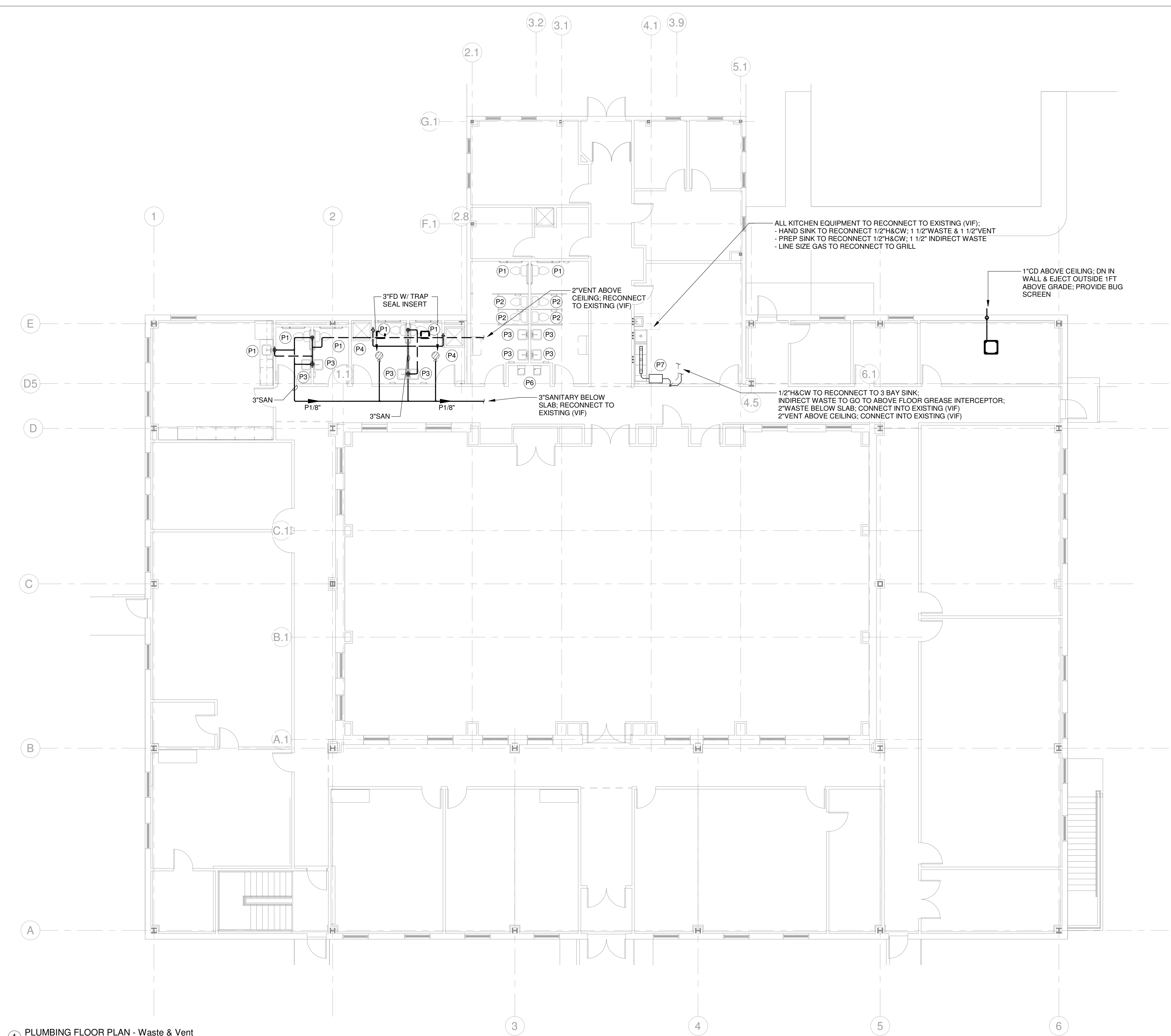
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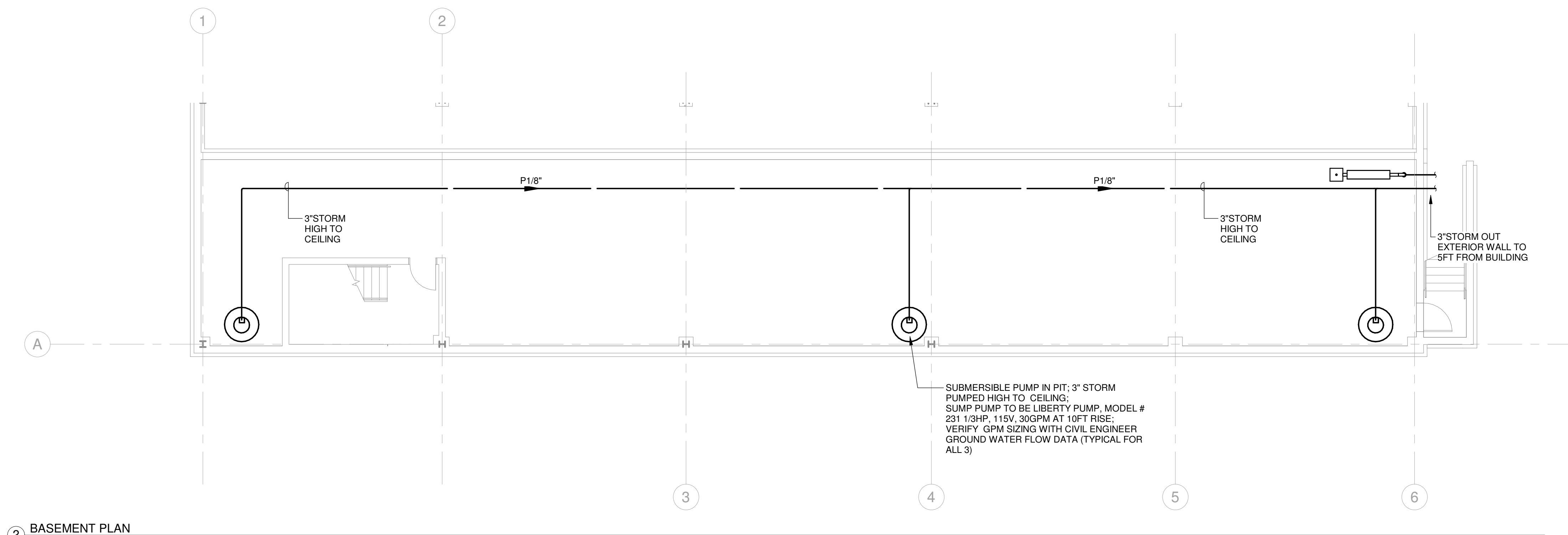
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**2021.33**  
ISSUE DATE:  
**10/11/2022**  
REVISION DATE:

DRAWING  
**FLOOR  
PLAN - FIRE  
& PLUMBING**

**FP2**



1 PLUMBING FLOOR PLAN - Waste & Vent  
1/8" = 1'-0"



2 BASEMENT PLAN  
1/8" = 1'-0"



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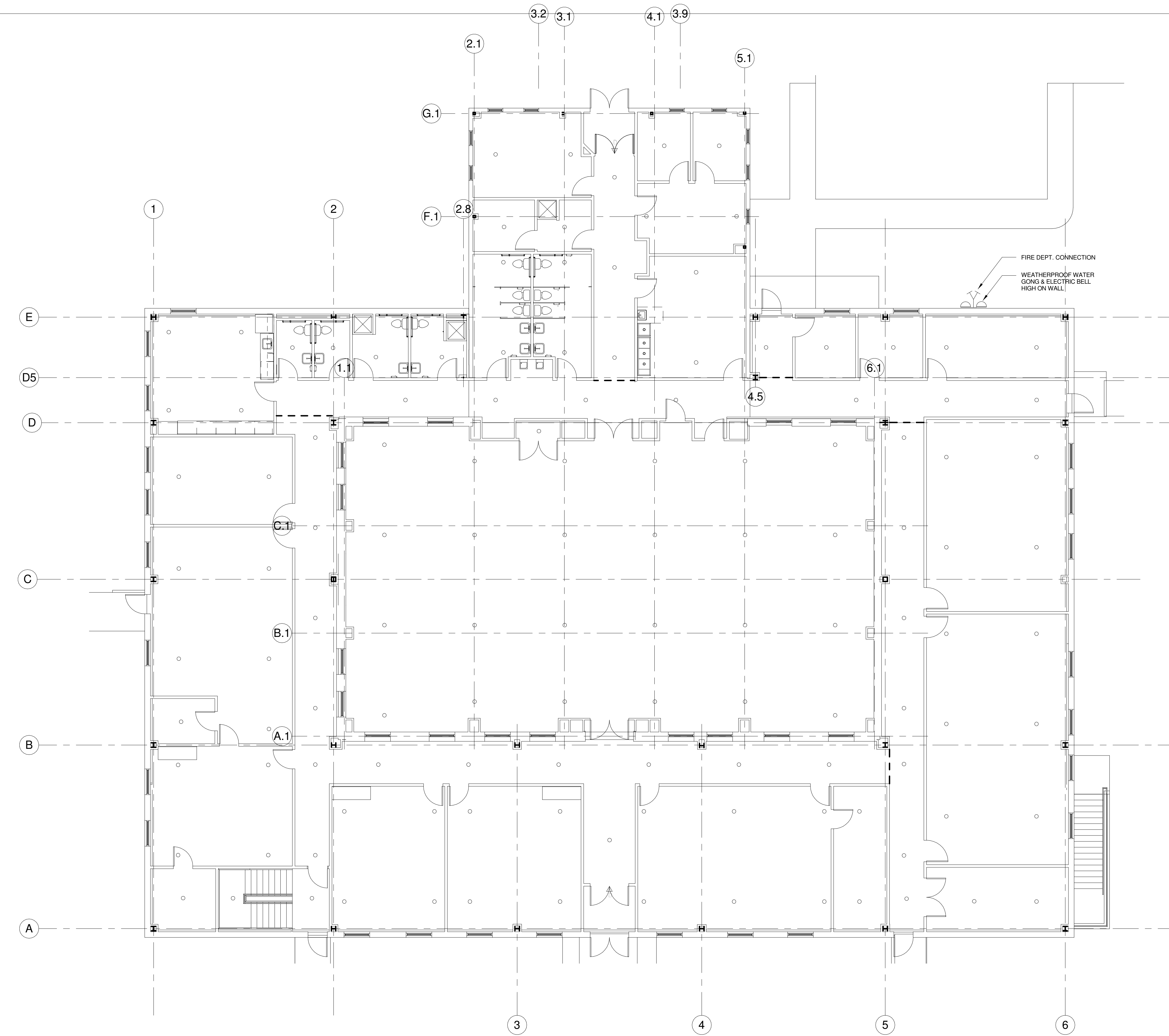
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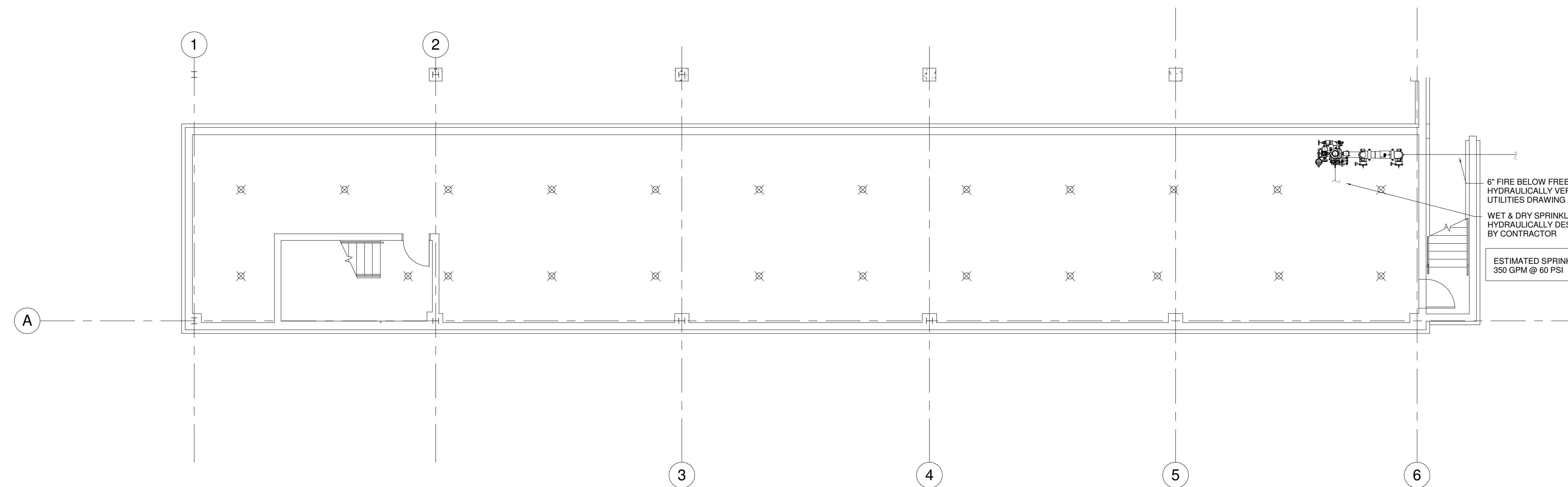
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1 Fire Protection - First Floor Plan  
1/8" = 1'-0"



2 Fire Protection - Basement Plan  
1/8" = 1'-0"

LEGEND	
	PENDENT CHROME SPRINKLER HEAD.
	UPRIGHT BRASS SPRINKLER HEAD.
	DRY SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
	OS&Y GATE VALVE WIRED BY DIVISION 16
	WET PIPE SYSTEM
	FLOW SWITCH WIRED BY DIV. 16.
	PRESSURE GAUGE

6" FIRE BELOW FREEZING (SIZE TO BE HYDRAULICALLY VERIFIED); REFER TO SITE UTILITIES DRAWING FOR CONTINUATION  
WET & DRY SPRINKLER SYSTEM TO BE HYDRAULICALLY DESIGNED AND SIZED BY CONTRACTOR  
ESTIMATED SPRINKLER DEMAND LOAD: 350 GPM @ 60 PSI



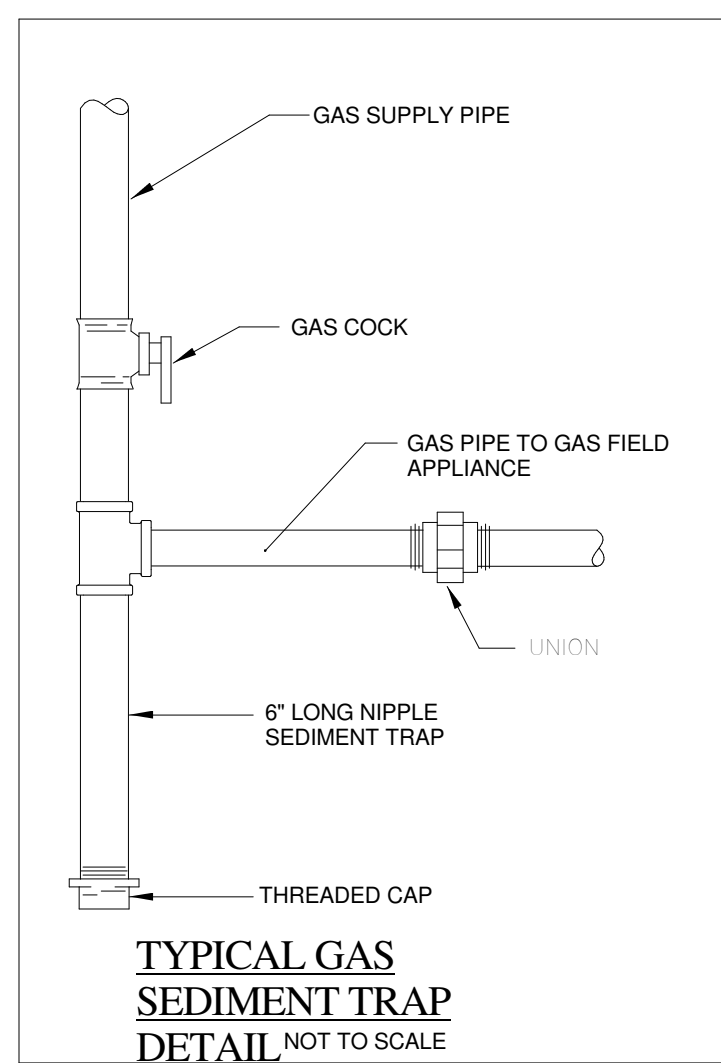
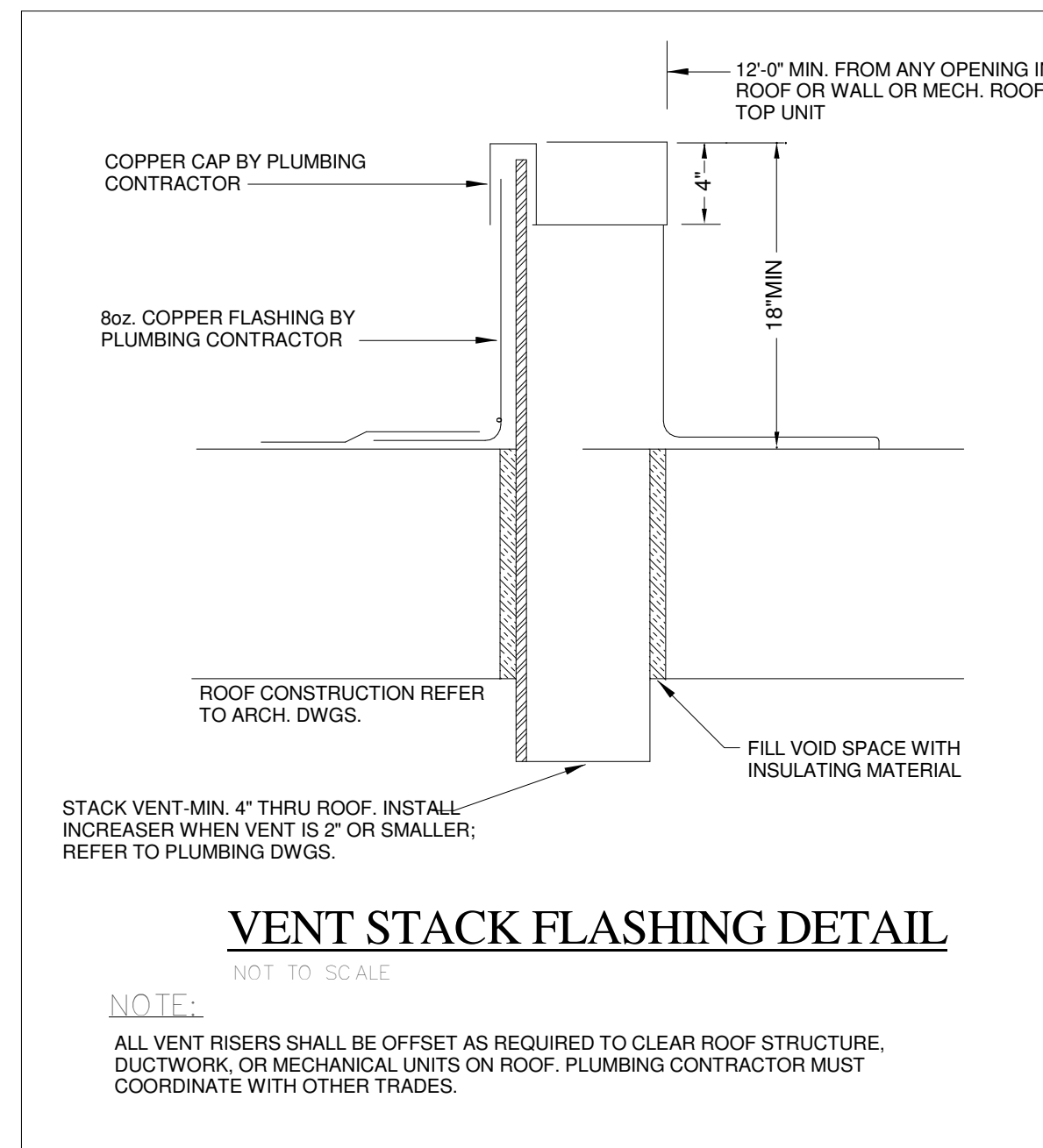
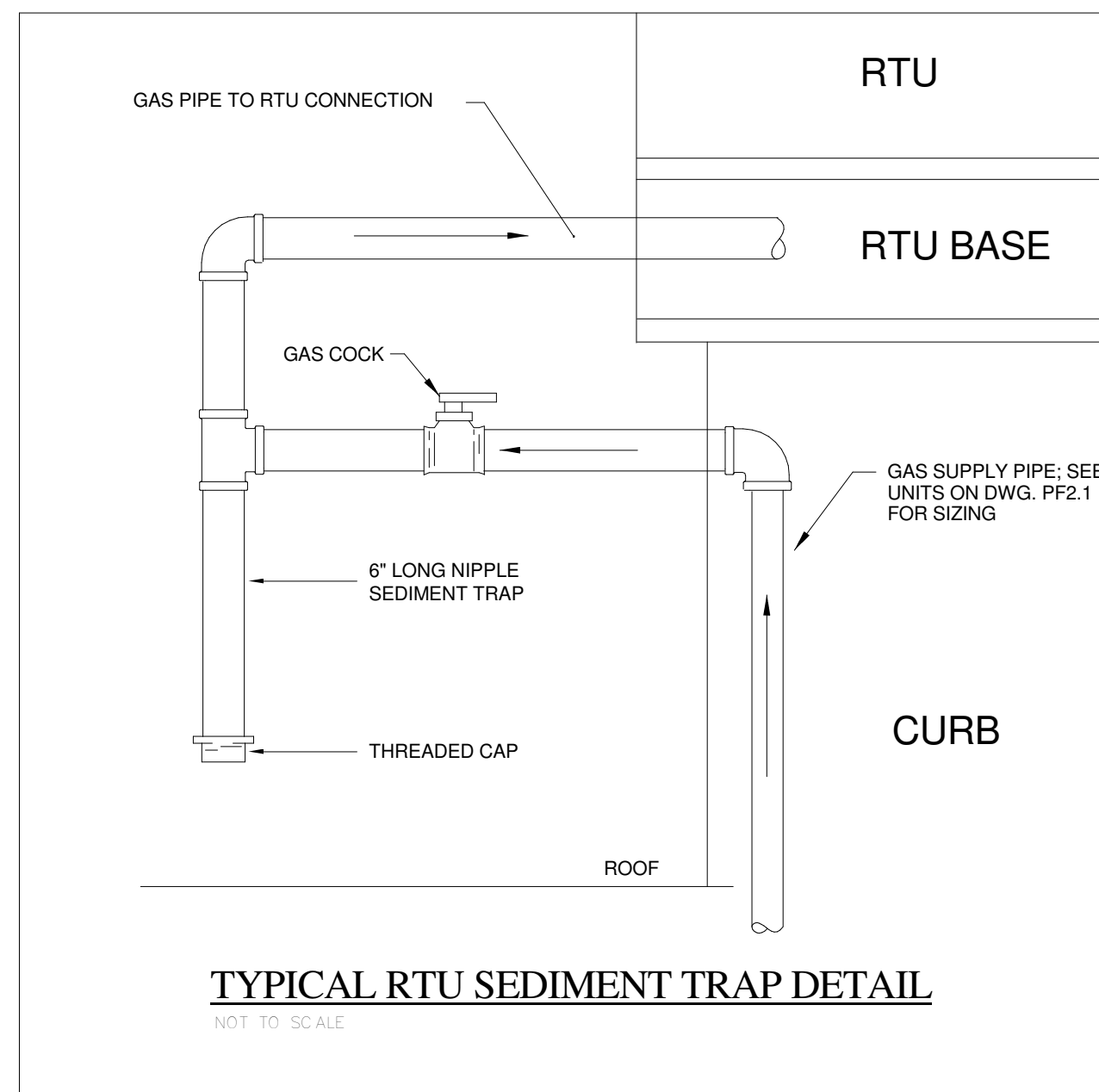
PROJECT NAME:  
Alterations & Additions  
East Windsor  
Community Center

PROJECT ADDRESS:  
28 Abbe Road  
East Windsor, CT  
06088

PROJ NO:  
2021.33  
ISSUE DATE:  
10/11/2022  
REVISION DATE:

DRAWING  
**SPRINKLER  
LAYOUT -  
FIRE &  
PLUMBING  
FP3**

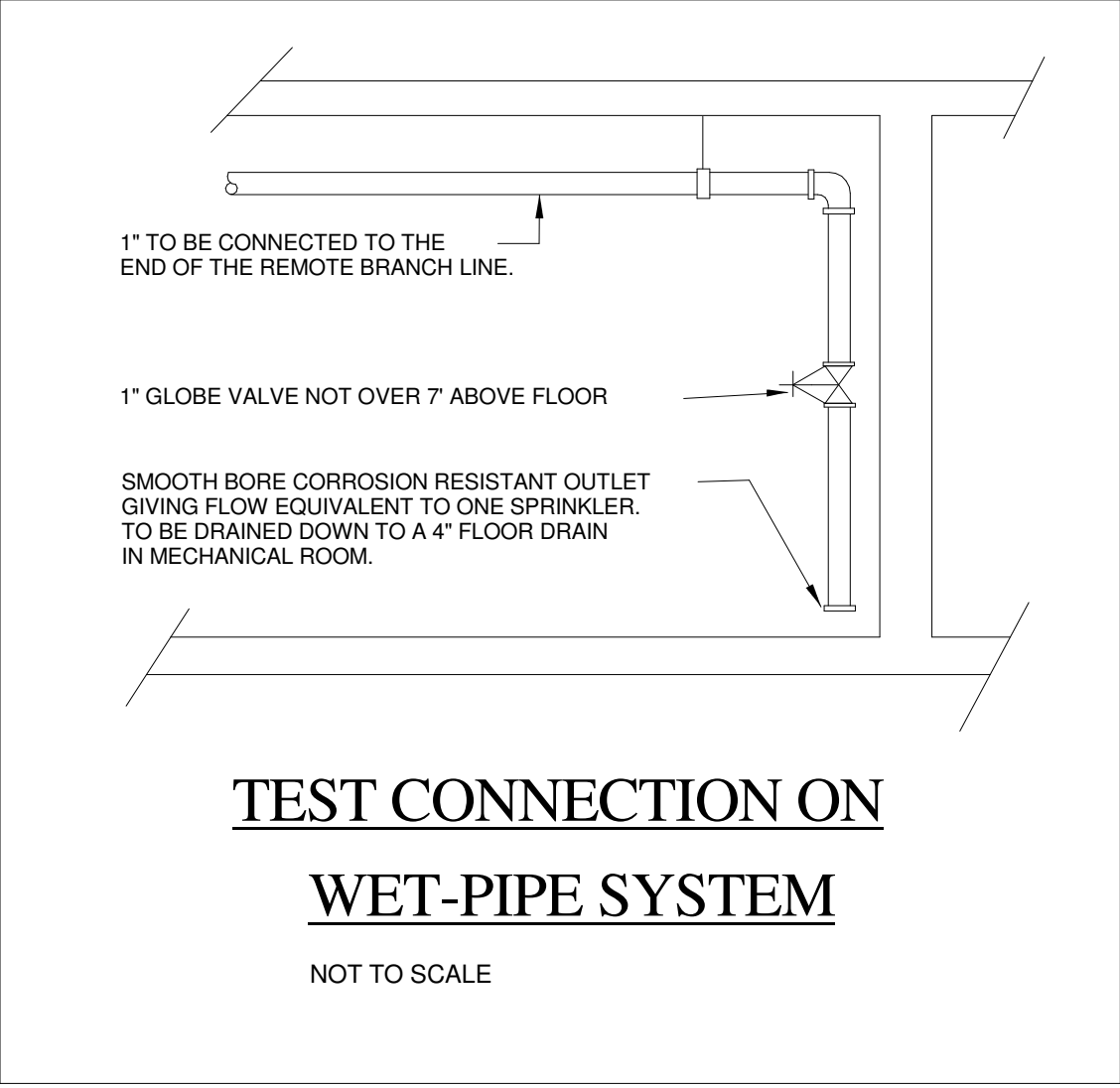
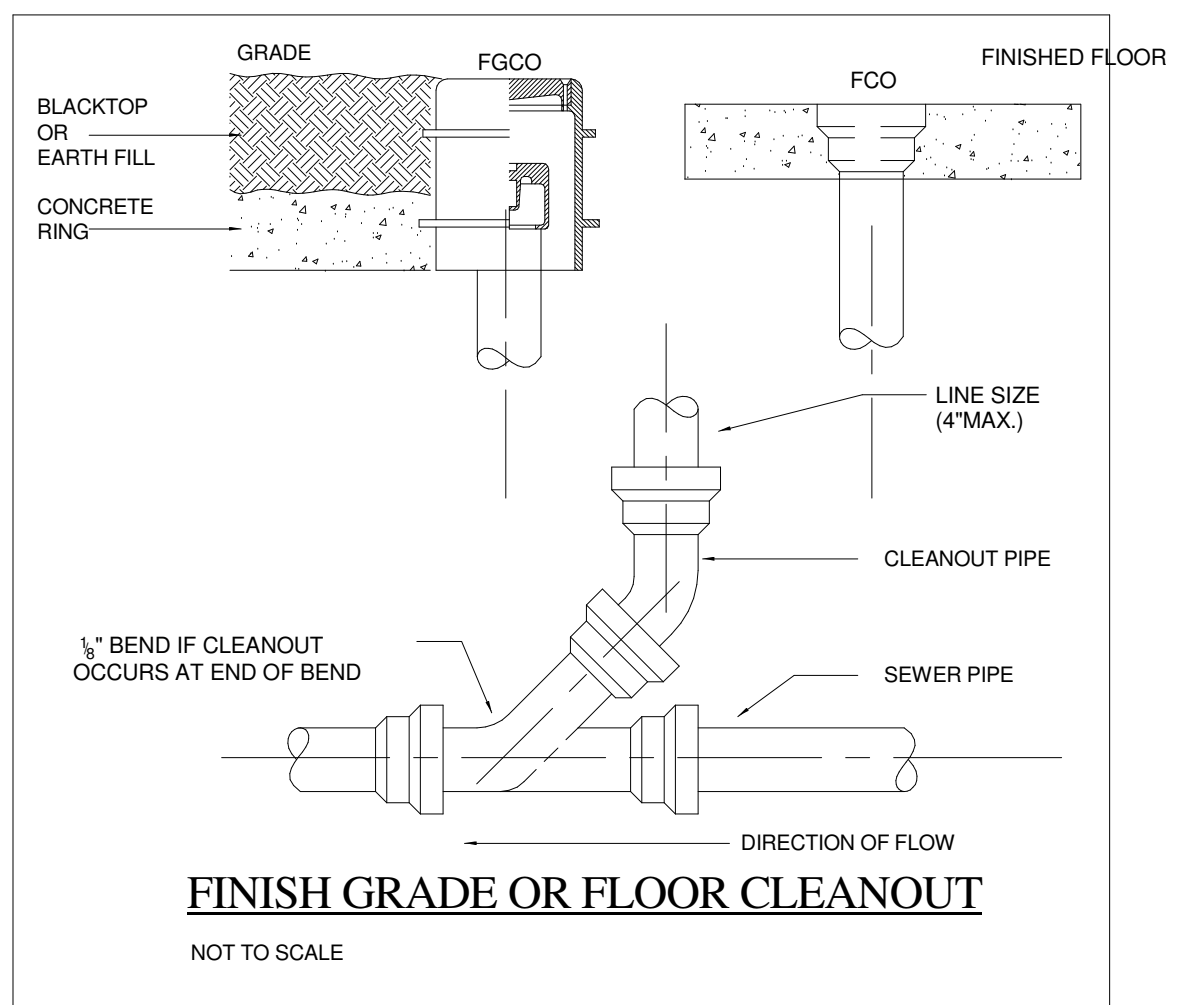
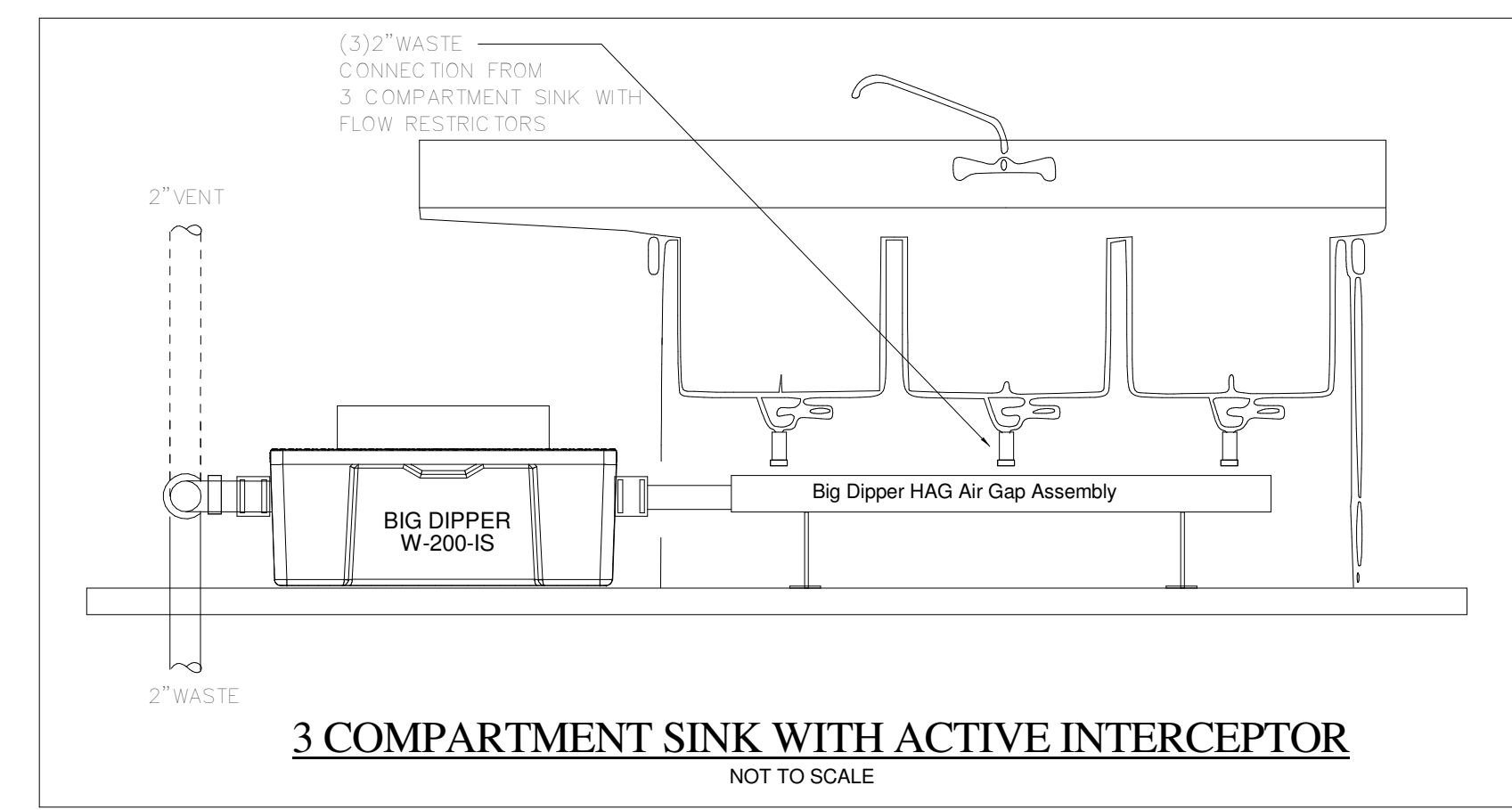




② Details 2  
1/8" = 1'-0"

- FIRE PROTECTION NOTES:** NOTE PERTAIN TO ALL DRAWINGS
1. THE FIRE PROTECTION SYSTEM SHALL BE A "WET PIPE SYSTEM".
  2. COORDINATE FIRE PROTECTION WORK WITH OTHER TRADES AND STRUCTURAL ELEMENTS.
  3. ALL PENETRATIONS OF RATED ASSEMBLIES TO BE SEALED WITH APPROVED FIRE RATED CAULK.
  4. PROVIDE ACCESS DOOR FOR ALL SHUT-OFF VALVES AND COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
  5. THE BUILDING IS TO BE FULLY SPRINKLED INCLUDING COMBUSTIBLE SPACES ABOVE CEILING, CONCEALED SPACES, ETC. AS PER NFPA-13 2013 AND INTERNATIONAL FIRE CODE 2015 AS SPECIFIED IN SPECIFICATIONS.
  6. PROVIDE AUXILIARY DRAINS ON ISOLATED TRAPPED PIPING SECTION AS PER NFPA-13.
  7. PROVIDE SEISMIC BRACING AS PER NFPA.
  8. THE SPRINKLER LAYOUT IS TO BE BASED ON A LIGHT HAZARD SYSTEM USING 225 SQ. FT. MAX COVERAGE PER HEAD. CRIMINALLY HAZARD HAS TO BE TAKEN INTO CONSIDERATION W/130 SQ.FT. MAX COVERAGE PER HEAD FOR STORAGE AREAS. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO SECURE A FLOW TEST PER LOCAL WATER COMPANY GUIDELINES.
  9. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL RELATED EQUIPMENT (FIRE DEPT. SIAMISE CONN., WATER GONG, ELECTRIC BELL, DRAINS, TAMPER & FLOW SWITCHES, ETC.), SPRINKLER HEADS, AND ALL ASSOCIATED PIPING. COORDINATE FINAL COUNT OF SUPERVISORY AND FLOW SWITCHES WITH DIVISION 16.
  10. SPRINKLER SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND ARE SHOWN AS A GUIDE FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR A DESIGN & BUILD SERVICE AND SHALL INCLUDE IN THE BID ANY ADDITIONAL HEADS REQUIRED.
  11. PROVIDE AUTO-DIALER FOR SPRINKLER SYSTEM TO CONTACT 24HR SUPERVISORY STATION IF NO FIRE ALARM CONTROL PANEL OR OWNER SECURITY MONITORING SYSTEM IS INSTALLED. PROVIDE TWO DEDICATED PHONE LINES FOR AUTO-DIALER. COORDINATE ALL WITH DIVISION 16

- SPRINKLER COVERAGE NOTES:** NOTE PERTAIN TO ALL DRAWINGS
1. 1ST FLOOR & COMMON AREAS - PROVIDE A WET SYSTEM WITH SEMI-RECESSED PENDENT (CHROME) SPRINKLER COVERAGE. ALL PIPING TO BE CONCEALED.



- FIXTURE SCHEDULE**
- P1 FIXTURE: "Kohler", Highline, Pressure-Lite, Flushmate Elongated Toilet, Model #K-3483 Vitreous china, 17 1/2" Rim Height, 1.6 Gal. Wash, Elongated bowl, Floor mounted, Floor outlet. Provide Braided supplies, stops & escutcheons. Fixture is ADA Compliant. Seat: "CENTOCO" #630T-001 Commercial Standard Elongated bowl, front open seat LESS cover.
  - P2 FIXTURE: "Kohler", Wellworth, Pressure-Lite, Flushmate Elongated Toilet, Model #K-3505 Vitreous china, 15 1/2" Rim Height, 1.6 Gal. Wash, Elongated bowl, Floor mounted, Floor outlet. Provide Braided supplies, stops & escutcheons. Seat: "CENTOCO" #630T-001 Commercial Standard Elongated bowl, front open seat LESS cover.
  - P3 FIXTURE: "Kohler", Soho, Wall mounted lavatory, Model #K-2054, Vitreous china, 4" center holes, concealed arms. Provide with wall carrier, Braided supplies, stops & escutcheons, 1 1/2" 17ga chrome P-trap. Front overflow, 22"x19 1/2" size. Undersink protection by "TRUEBRO LAV GUARD" Model #102 E-Z.
  - P4 Trim: "Symmons" Scot, Model #SLC-6000-G-S, Metering Temp Level, push control faucet, chrome finish with grid drain assembly, vandal resistant, 1/2" GPM aerator. Provide local below deck thermostatic mixing valve. Fixture is ADA Compliant.
  - P5 Trim: "SYMMONS" ORIGINS Model #S-8603-PLR-X, Pressure balanced valve with chrome finish lever handle, integral check stops, hose & spray, slide bar and vacuum breaker. Provide drain assembly. Fixture is ADA Compliant.
  - P6 FIXTURE: "Elkay", ADA CR Series Countertop Single Bowl Sink Model GECR2521-3-RLJ, Self-rimming, 20 Gauge Stainless Steel with offset drain (offset to dishwasher side). Provide braided supplies, stops & escutcheons, 1 1/2" 17ga chrome P-trap. Elkay #LK35 stainless steel sink drain with strainer kit. Insulate exposed hot & cold water and P-trap piping below with Truebro Model #103 E-Z insulation kit.
  - P7 Trim: "SYMMONS" Model #S-23-1-W, 6" Single lever chrome finish kitchen faucet, 8 1/2" swing spout with swivel spray aerator, Polished chrome finish, 2.2 GPM flow.
  - P8 "ELKAY", Model #EZSLBWSLK, Two Level Filtered Water Cooler with Bottling filling station, Wheelchair access model, includes LK464 drain and trap assembly. Fixture is ADA compliant.
  - P9 FIXTURE: "THERMACO" Big Dipper Automatic Grease Removal System, Model #W-200-IS, Stainless Steel, 115V / 1173Wts, 20 gpm, 47 lbs capacity, 2.5 gallon internal strainer. Provide with stand & coordinate its height with final sewer invert.
  - W.C.O. "J.R. Smith" #4400 Series-U Duco C.1, Spigot Female with cast bronze taper thread plug, Chrome plated bronze round frame and vandal proof screws.
  - F.C.O. "J.R. Smith" #4020-U Series, No-hub outlet, Duco C.1 Cleanout with round adjustable scoriated nickel bronze top, Vandal proof top.
  - F.C.C.O. "J.R. Smith" #4250 Series Duco C.1, cleanout and double flanged housing with heavy duty secured scoriated cover with lifting device.
  - F.D. "Watts" #FD9 or FD10 (Based on floor type) PVC Body with round nickel bronze adjustable strainer head, round grate, sediment bucket and funnel (as needed) Provide trap seal inserts. Provide funnel on all floor drains that receive indirect discharge.
  - F.S. "J.R. Smith" #3007-03-13, 12" Stainless Steel, 6" deep floor sink with sediment bucket & 1/4" grate.

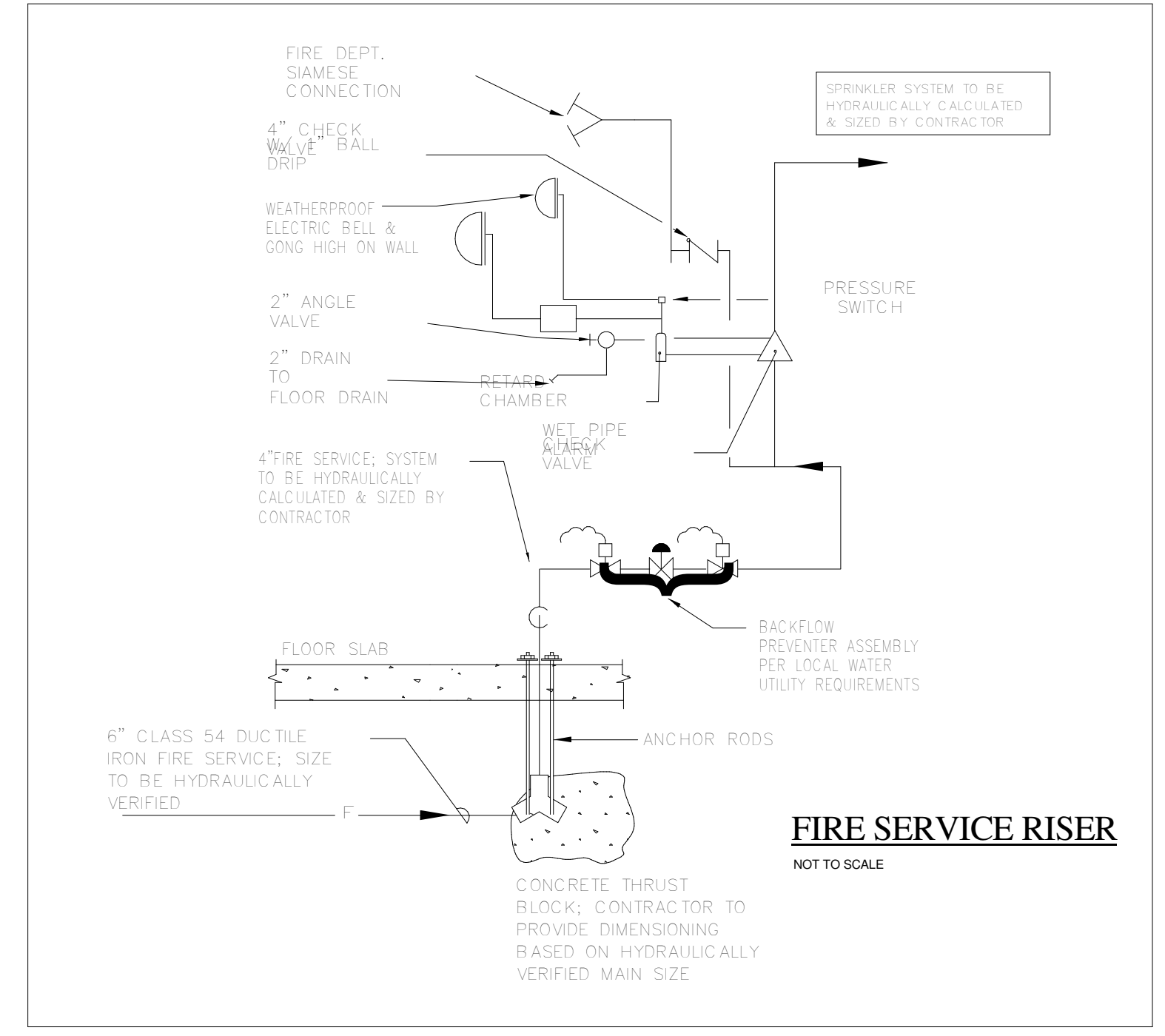
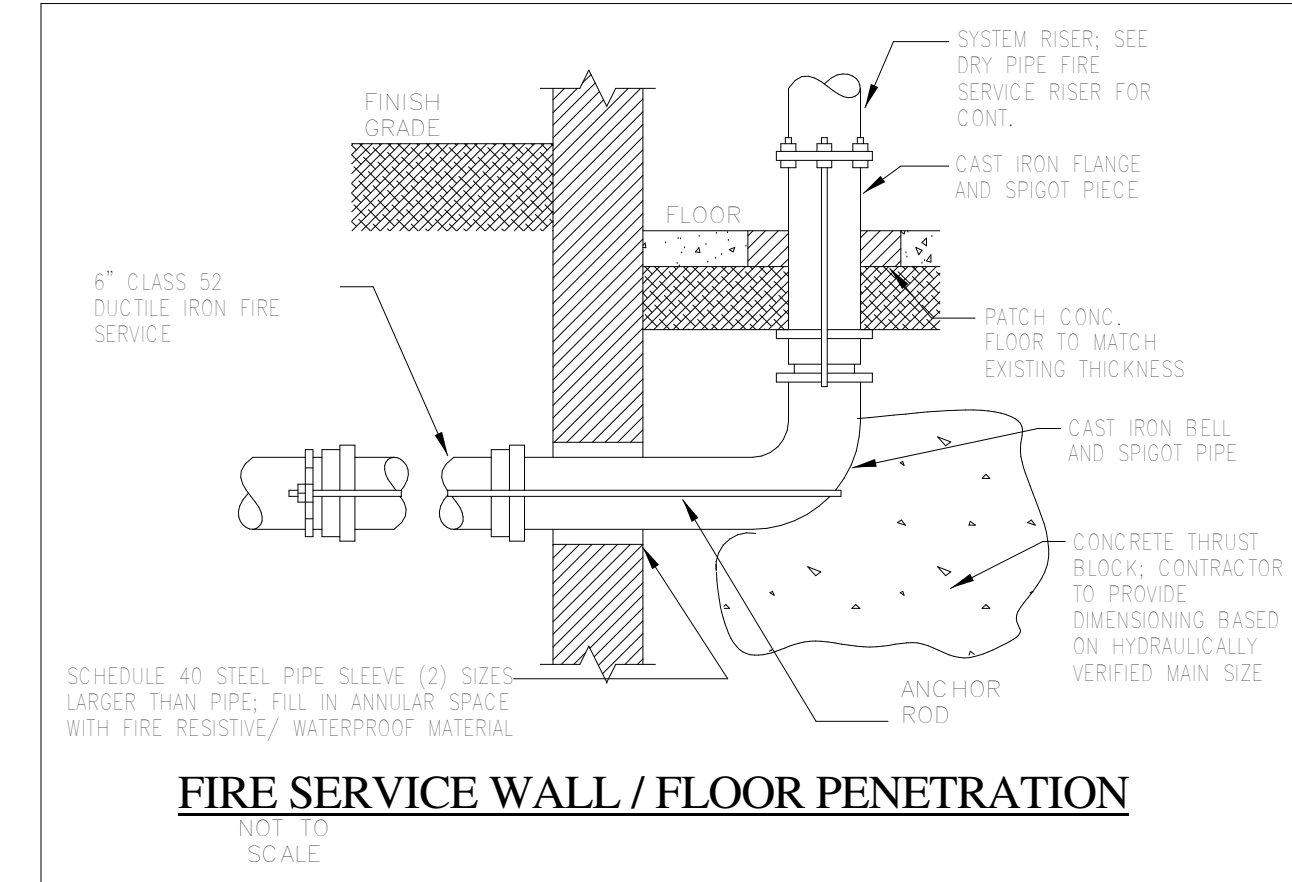
**SYMBOL LIST**

---	COLD WATER PIPE (CW)
---	HOT WATER PIPE (HW) (110°F)
---	HOT WATER RECIRCULATION PIPE (HWR) (110°F)
---	HOT WATER PIPE (140°F)
---	HOT WATER CIRCULATION PIPE (140°F)
---	SANITARY PIPE (BROKEN LINE IS BELOW FLOOR)
---	STORM PIPE
---	EMST - EMERGENCY STORM PIPE
---	VENT PIPE (V)
---	CONDENSATE / DRY PIPE
---	DIRECTION OF FLOW
---	W.D. - WALL CLEANOUT
---	CHECK VALVE
---	W.S. - WASTE STACK
---	V.S. - VENT STACK
---	S.S. - SOIL STACK
---	V.T.R. - VENT THROUGH ROOF
---	GATE VALVE
---	BALL VALVE
---	GAS PIPE
---	GAS SHUT OFF
---	BACKFLOW PREVENTER
---	PRESSURE REDUCING VALVE
---	BALANCING VALVE
---	WATER HAMMER ARRESTER
---	H.B. - HOSE BIBB (NON-FREEZE WHEN INDICATED)
---	F.S. - FLOOR SINK
---	F.D. - FLOOR DRAIN
---	FCO - FLOOR CLEANOUT
---	FGCO - FINISH GRADE CLEANOUT
---	BWV - BACK WATER VALVE
---	(VIF) - VERIFY IN FIELD

- PLUMBING NOTES:** NOTES PERTAIN TO ALL DRAWINGS
1. ALL PLUMBING WORK TO BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE.
  2. ALL WATER PIPING TO BE WITHIN THE HEATED ENVELOPE OF BUILDING. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO FIXTURES. BRANCH PLUMBING PIPES TO HAVE STOPS & TRAPS W/ESCUTCHEONS.
  3. ALL PLUMBING PIPING TO BE CONCEALED ABOVE CEILING OR IN WALLS UNLESS NOTED OTHERWISE ON PLANS.
  4. PIPING AS SHOWN IS ONLY DIAGRAMMATICALLY PRESENTED. CONTRACTOR IS TO COORDINATE WITH OTHER TRADES AND STRUCTURAL ELEMENTS. CONTRACTOR SHALL ALSO FURNISH ALL REQUIRED EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION.
  5. ALL PENETRATIONS OF RATED ASSEMBLIES TO BE SEALED WITH APPROVED FIRE RATED CAULK. FIRE PENETRATION SYSTEMS SHALL MEET THE UL LISTING FOR EXISTING WALL OR FLOOR CONSTRUCTION.
  6. PROVIDE ACCESS DOORS AS NEEDED FOR ALL SHUT-OFF VALVES AND COMPONENTS NEEDING ACCESS. COORDINATE WITH GENERAL CONTRACTOR.
  7. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.
  8. INSULATE EXPOSED PIPING BELOW HANDICAP LAVATORIES AND SINKS.
  9. PROVIDE DEEP SEAL "P" TRAP ON EACH UNIT'S CONDENSATE LINE. PROVIDE FUNNELS AT FLOOR DRAINS & TRAP SEAL INSERTS.
  10. ALL EXPOSED GAS PIPING TO BE PAINTED. PROVIDE CONNECTION SIZE DEEP SEAL "P" TRAP ON RT UNIT'S CONDENSATE DRAINS & WIRE MESH PIPER ENDS, ALLOW CONDENSATE TO DRIP ON ROOF.
  11. PROVIDE SEISMIC BRACING AS REQUIRED PER CODE.
  12. PROVIDE WATER HAMMER ARRESTERS ON ANY QUICK CLOSING FIXTURES OR EQUIPMENT WHERE REQUIRED.
  13. ALL FIXTURE WATER TERMINATIONS TO BE COPPER & THROUGH THE WALLS (UNLESS ON AN EXTERIOR WALL, THEN THROUGH FLOOR TO BE PERMITTED) AND HAVE ESCUTCHEON PLATES. ROUGH OPENINGS TO BE FILLED WITH EXPANDING FOAM SO CAVITY IS COMPLETELY SEALED BEHIND ESCUTCHEONS.
  14. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY IN THE FIELD ALL LOCATIONS AND SIZE OF EXISTING MAIN SANITARY AND WATER PIPING BEING TIED INTO AND VERIFY CONTINUITY, CONDITION AND PROPER SIZE. IF PIPING DOES NOT CONFORM TO ALL CONDITIONS THEN THE ARCHITECT & ENGINEER IS TO BE NOTIFIED. ALL BRANCH WASTE PIPE, "P" TRAPS AND HOT-COLD WATER CONNECTION PIPING TO FIXTURES IS TO BE REPLACED WITH NEW.

**SCHEDULE OF SIZING FOR ROUGHING FOR PLUMBING FIXTURES**

WATER CLOSET-TANK TYPE	12" CW	3"	2 1/2"
URINAL BLOW OUT	3/4" CW	2"	1 1/2"
LAVATORY SINK	1/2" H & CW	1 1/2" W	1 1/2" W
MOP SINK	1/2" H & CW	3" W	2" W
HOSE BIB	3/4" CW	---	---
KITCHEN SINK	1/2" H & CW	1 1/2" W	1 1/2" W
3 BAY SINK	1/2" H & CW	3" W	---



Stephen Jager, AIA

**JAGER ASSOCIATES LLC**

4 Grand View Drive Enfield, CT 06022

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PROJECT NAME:  
Alterations & Additions East Windsor Community Center

PROJECT ADDRESS:  
28 Abbe Road East Windsor, CT 06088

PROJ. NO:  
2021.33

ISSUE DATE:  
10/11/2022

REVISION DATE:

DRAWING  
**DETAILS - FIRE & PLUMBING**

**FP4**



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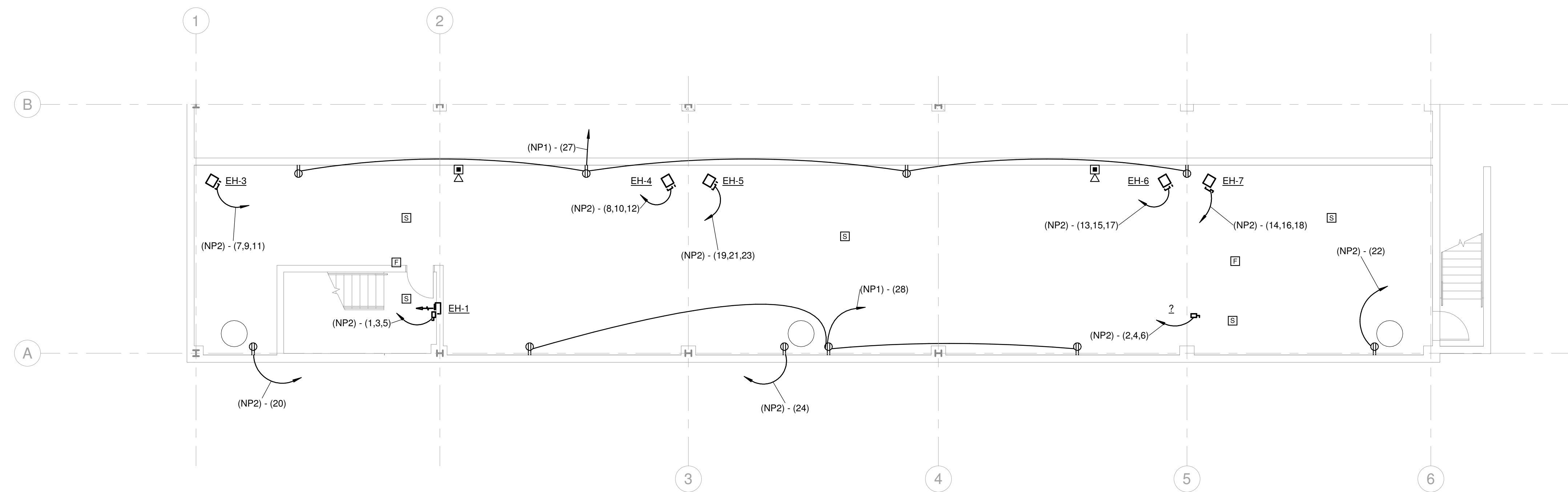
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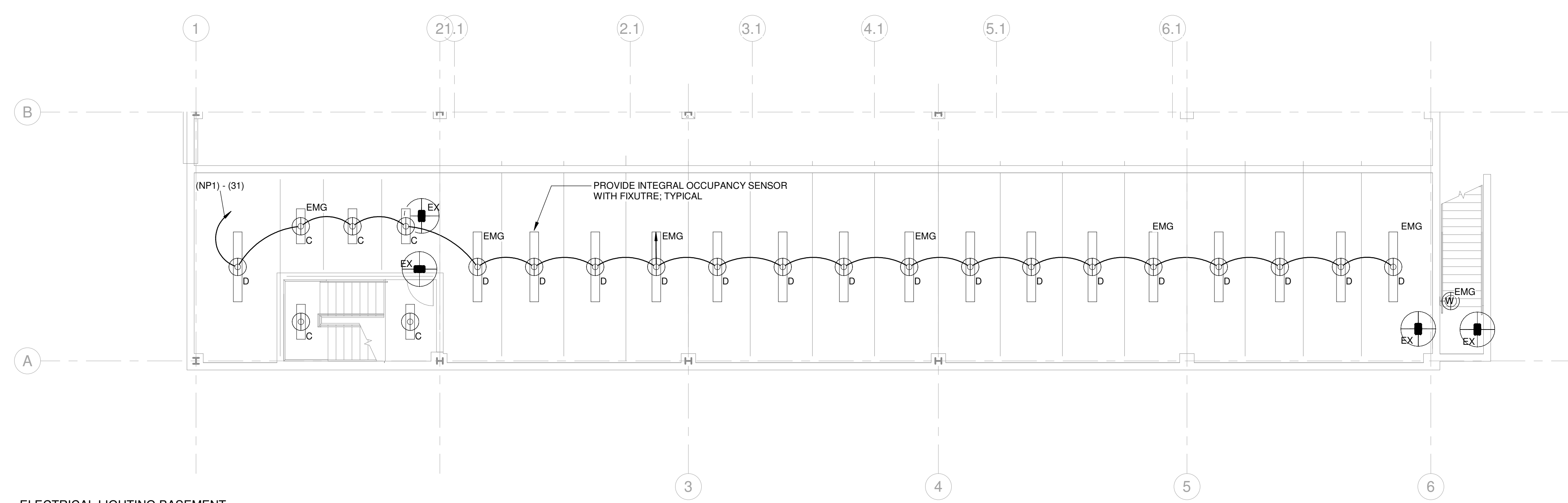


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2 ELECTRICAL POWER BASEMENT PLAN  
1/8" = 1'-0"



1 ELECTRICAL LIGHTING BASEMENT PLAN  
1/8" = 1'-0"



PROJECT NAME:  
ADDITION/REMODEL  
COMMUNITY CENTER

PROJECT ADDRESS:  
28 Abbe Road  
East Windsor, CT  
06088

PROJ NO:  
2021.33  
ISSUE DATE:  
10/11/2022  
REVISION DATE:

DRAWING  
ELECTRICAL  
BASEMENT  
PLAN

E1



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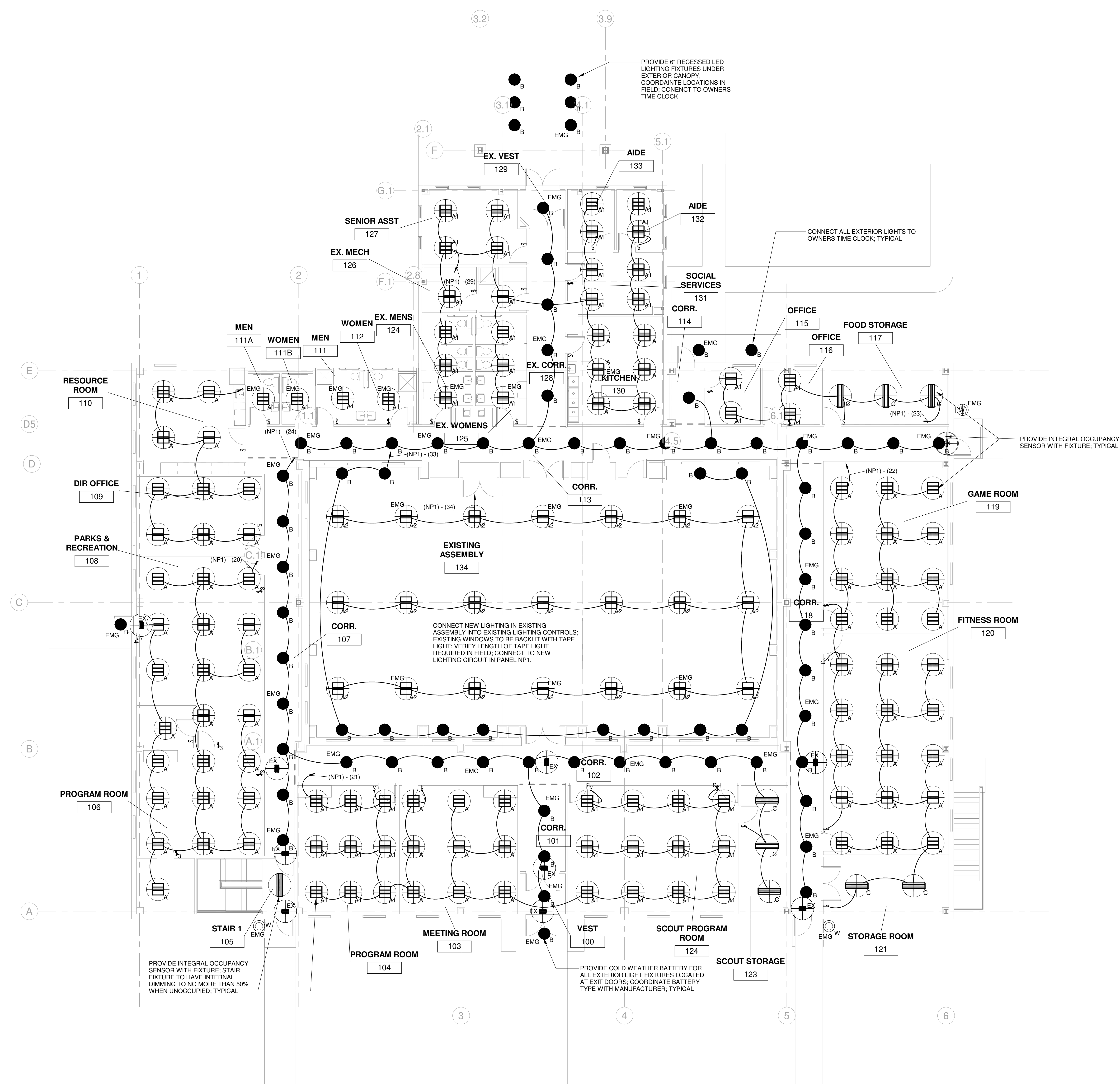
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1 ELECTRICAL LIGHTING FLOOR PLAN  
1/8" = 1'-0"



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East Windsor, CT  
06088

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10/11/2022  
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DRAWING  
**ELECTRICAL  
LIGHTING  
FLOOR  
PLAN**  
**E2**



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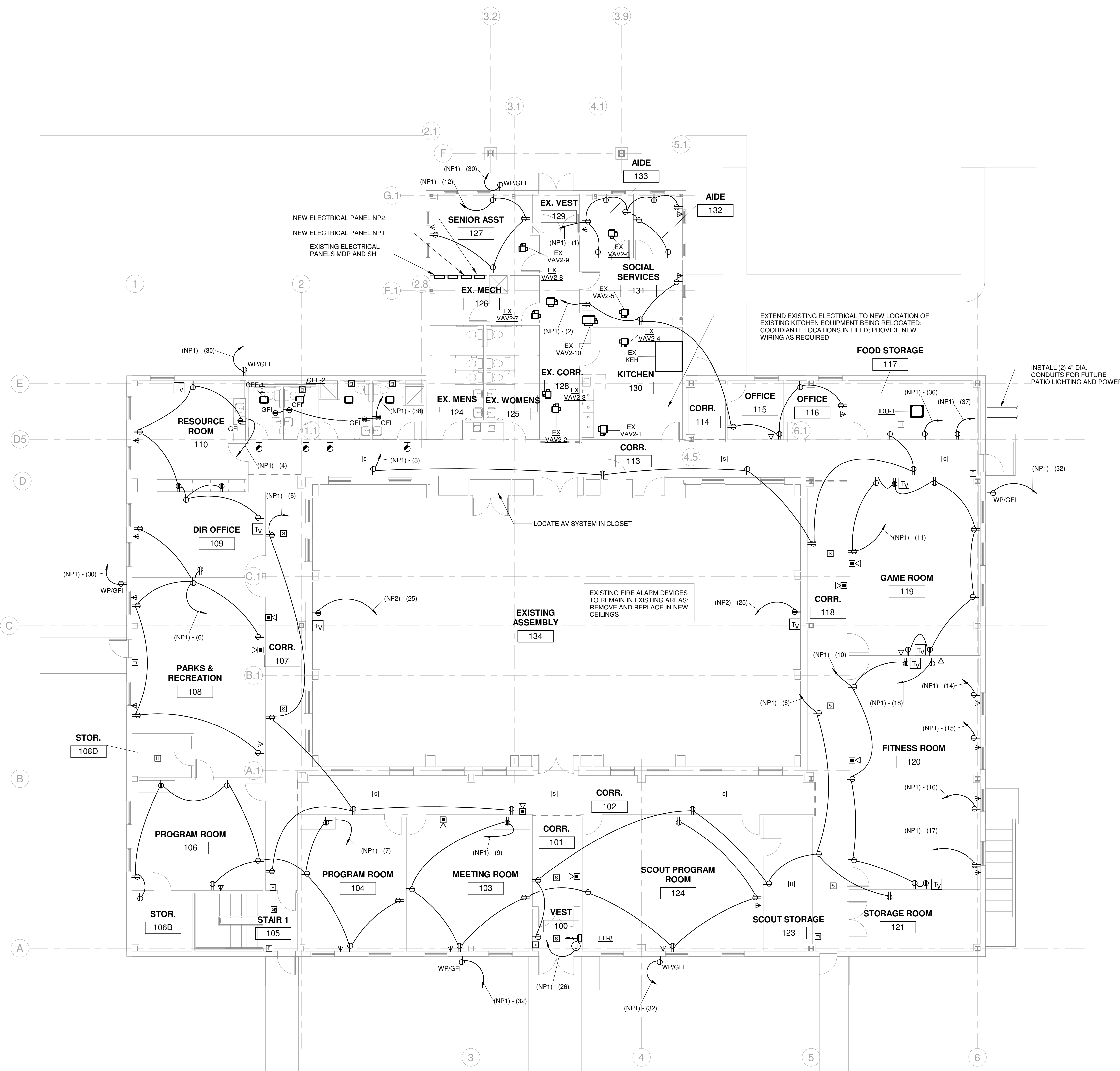
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1 ELECTRICAL POWER FLOOR PLAN  
1/8" = 1'-0"

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DRAWING  
**ELECTRICAL  
POWER  
FLOOR  
PLAN**  
**E3**



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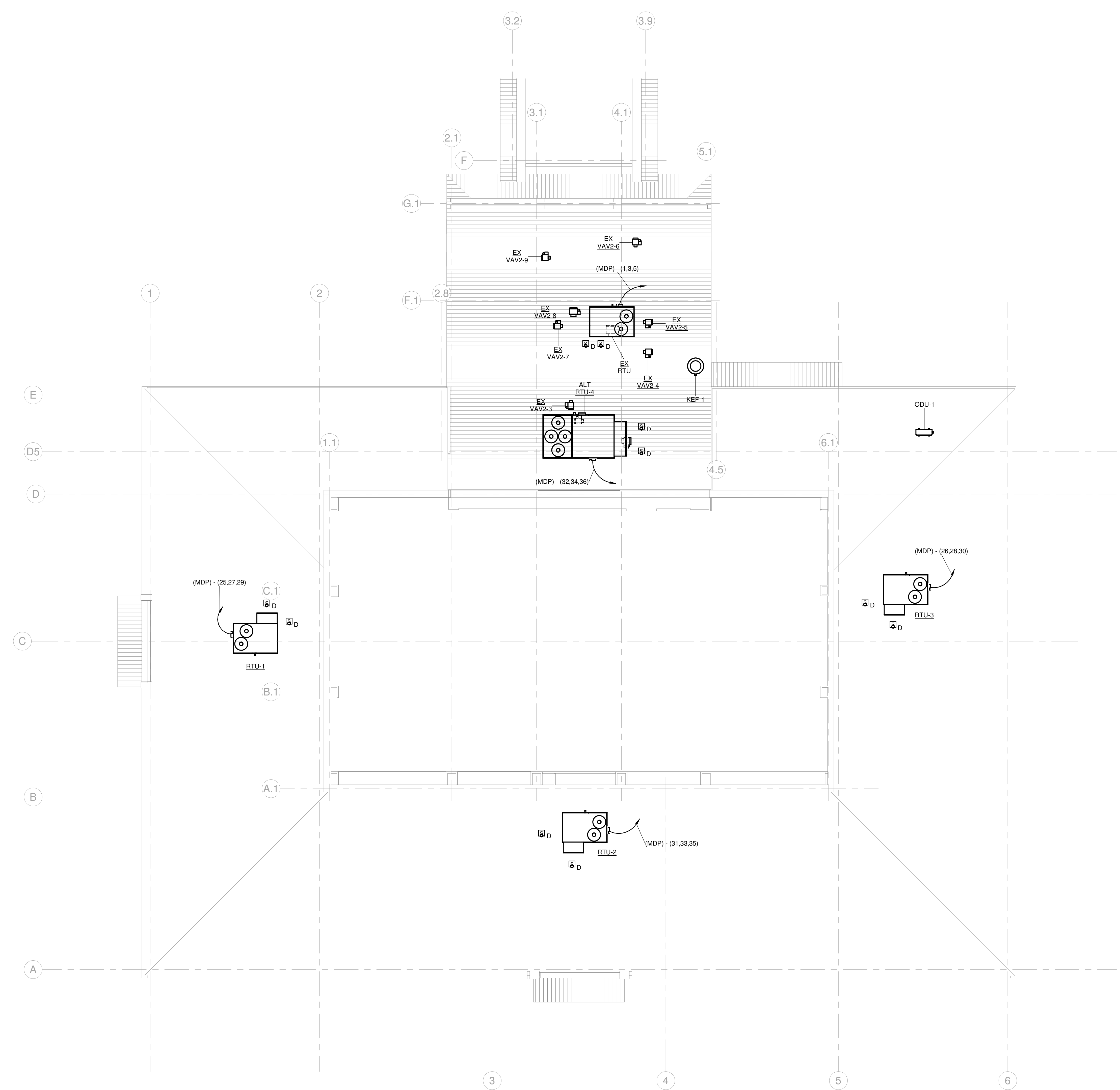
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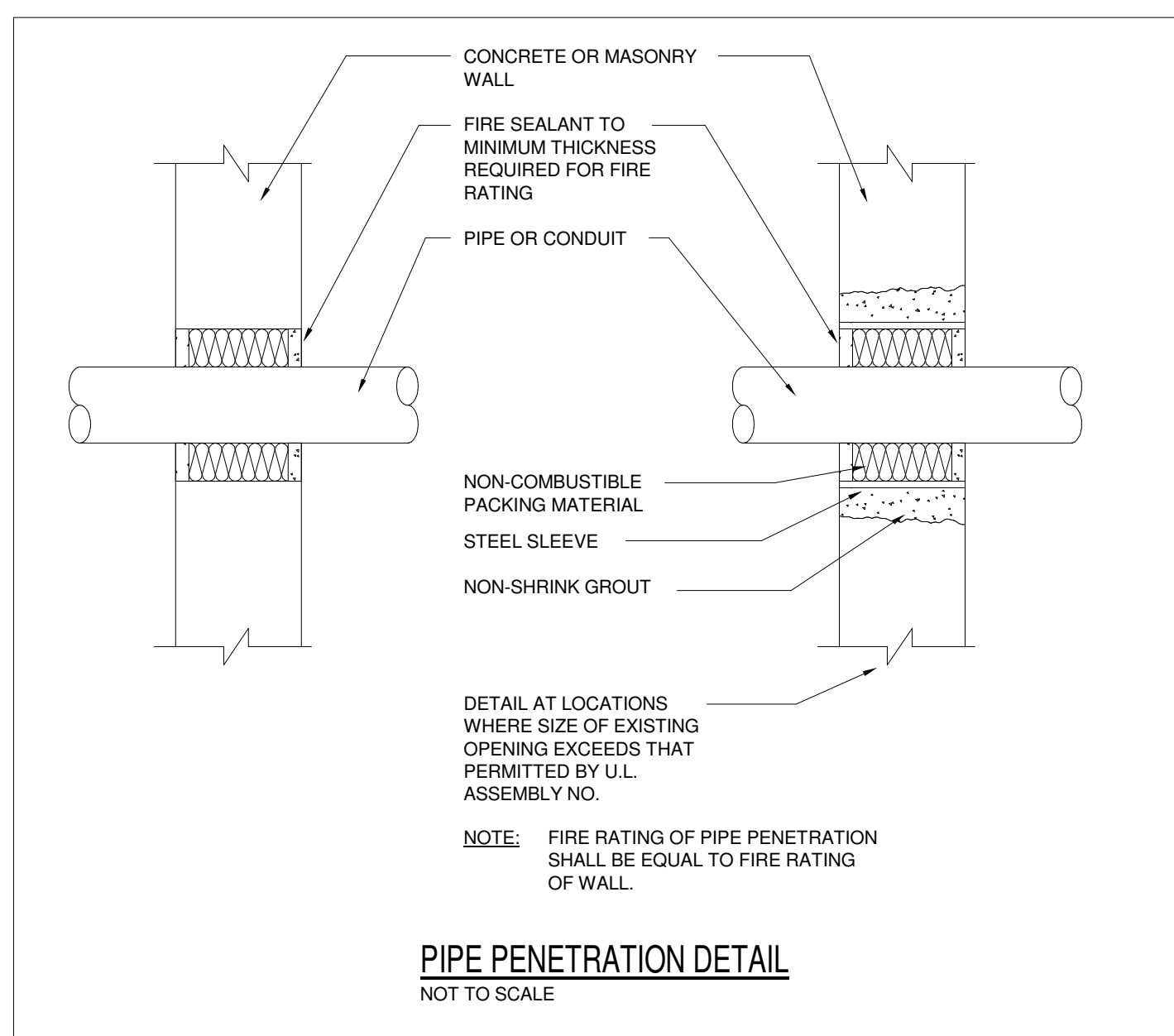
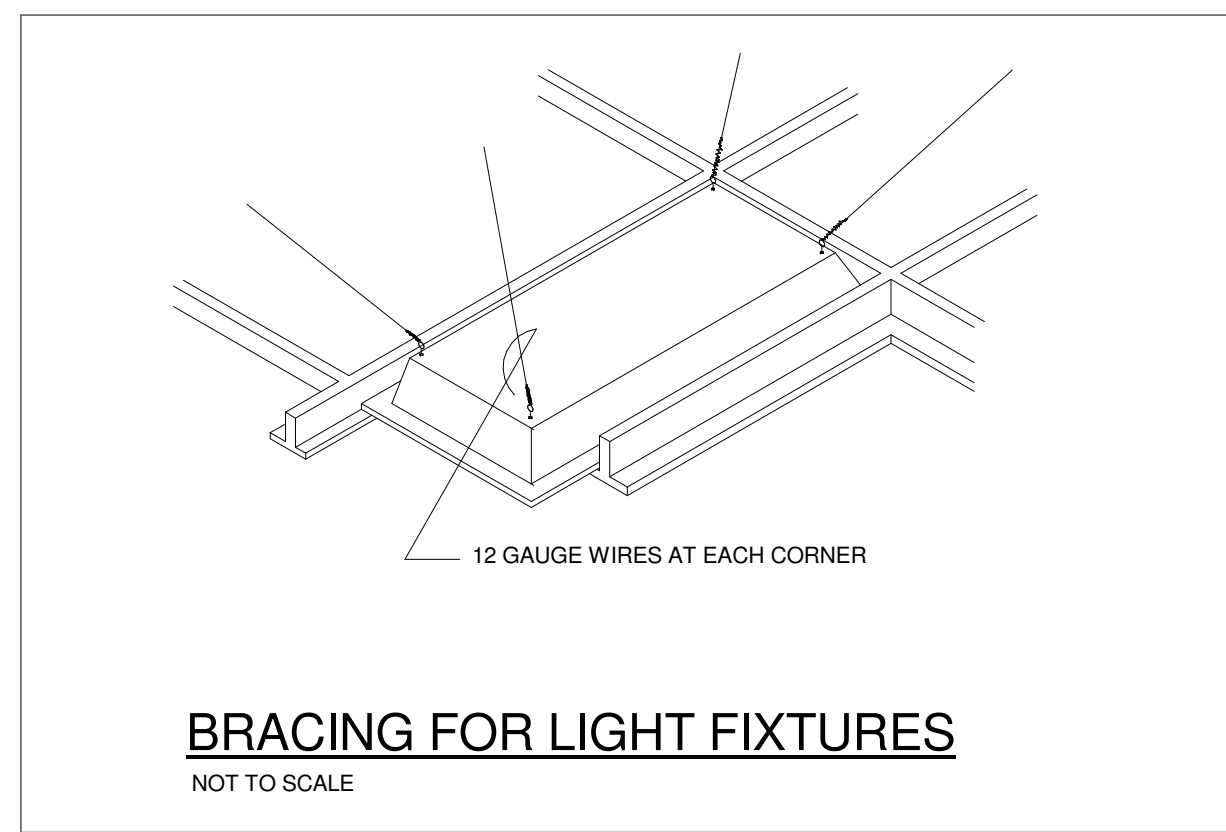
1 ELECTRICAL POWER ROOF PLAN  
1/8" = 1'-0"

DRAWING  
**ELECTRICAL  
ROOF PLAN**

**E4**



Lighting Fixture Schedule					
Type	Manufacturer	Model	Description	Wattage	Voltage
A	Day-Brite	2FGXG45L840-2-RS-UNV	2X2 2-FORTIMO LED STRIP VO 4000K BOARDS 40W DRIVER @750mA	34 W	120 V
A1	Day-Brite	2FGXG38B840-2-UNV-DIM	2X2 FLUXGRID EZ 1-FORTIMO LED STRIP VO 4000K CERTA DRIVE @675mA (OFF POSITION) ROUND LENS	32 W	120 V
A2	Day-Brite	Please Load Accompanying Type Catalog (.txt)	Please Load Accompanying Type Catalog (.txt)	47 W	120 V
B	Lightolier	P4RDL20835CLZ 10 U	LYTEPROFILE 4.5 INCH ROUND	20 W	120 V
C	<varies>	FSW455L840-UNV-DIM	4' FLUXSTREAM WRAP 2--LINEP 2.40L6 4000K 54W 5.1K RE-LED-AR50i LENS	30 W	<varies>
D				9 W	
EX	Chloride	TPED2C11R	TruPath TPE Exit, Single Face, Red Letters, Dry/Damp location	6 W	120 V
PROVIDE INTEGRAL OCCUPANCY SENSOR WITH LIGHTING FIXTURES				9 W	



**ELECTRICAL GENERAL NOTES:**

- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.
- E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF ELECTRICAL INSPECTION. THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
- IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED, EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.
- THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.
- ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.
- ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL, LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.
- ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.
- ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
- E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
- ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.
- ALL WIRING SHALL BE TYPE THHN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #8 AWG, TYPE XHHW WILL BE ACCEPTED.
- CONDUCTORS SIZED #10 AWG AND SMALLER WITHIN A CABLE ASSEMBLY (NM SHEATHED CABLE, METAL CLAD ARMORED CABLE) SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG IN SUCH ASSEMBLIES SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDED, SHIELDED UNLESS OTHERWISE DIRECTED BY INSTALLATION MANUALS AND STANDARDS.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.
- ALL DRAWINGS ARE SCHEMATIC IN NATURE. ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- REFER TO SPECIFICATION SECTION 16100 WIRE AND CABLE FOR ACCEPTABLE WIRING AND CABLING METHODS. REFER TO THE SPECIFICATION REGARDING THE USE OF NM, MC AND SER CABLE. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC.
- ALL NEW FIRE ALARM DEVICES SHALL BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. COORDINATE WITH OWNERS FIRE ALARM REP. FOR ALL ACCESSORIES REQUIRED FOR COMPLETE CONNECTION TO EXISTING SYSTEM.

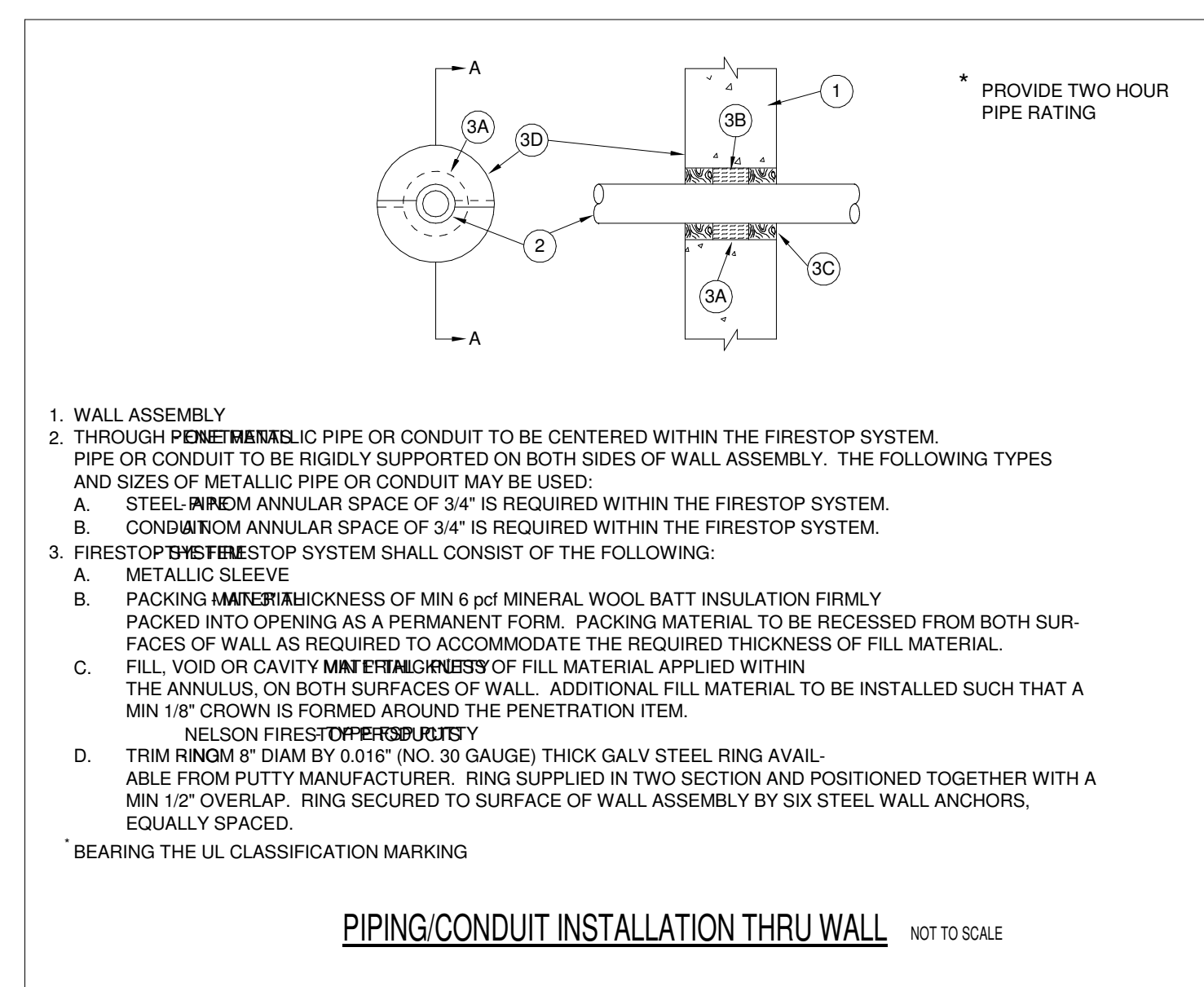
**ELECTRICAL LIGHTING NOTES:**

- REFER TO ARCHITECTURAL REFLECTIVE CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES INDOORS AND OUTDOORS.
- ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING.
- EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LESS FOR CONTINUOUS CHARGING AND MC CIRCUIT MONITORING.
- COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL, EGRESS PLAN.
- PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS.
- STAIRWELL LIGHTS SHALL BE CONNECTED TO SAME LIGHTING CIRCUIT BOTTOM OF STAIRWELL TO TOP. REFER TO PANEL SCHEDULES.
- PROVIDE OCC SENSORS FOR ALL OFFICES AND COMMUNITY SPACES PER 2015 INTERNATIONAL ENERGY CODE.
- PROVIDE BATTERY PACKS FOR ALL LIGHT FIXTURES TAGGED WITH 'EMG'.

**ELECTRICAL POWER NOTES:**

- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT I.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.
- HVAC AND PLUMBING EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. E.C. SHALL COORDINATE EXACT LOCATIONS AND POWER REQUIREMENTS OF APPLICABLE HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL DRAWINGS. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS NEEDED.
- E.C. SHALL PROVIDE DISCONNECT SWITCHES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT WHERE THE DISCONNECT SWITCH IS NOT PROVIDED WITH THE EQUIPMENT OR BY OTHERS.
- E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.
- ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.
- ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.
- MANUAL FIRE ALARM PULL BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT.
- THE HEIGHT OF THE MANUAL FIRE ALARM PULL BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES MEASURED VERTICALLY FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.
- THE MINIMUM MOUNTING HEIGHT OF THE COMBINATION HORN/STROBES SHALL BE 80 INCHES AFF TO THE BOTTOM AND MINIMUM OF 8 INCHES BELOW THE FINISHED CEILING TO THE TOP.
- COMBINATION HORN/STROBES SHALL HAVE A SOUND LEVEL RATING FROM A MINIMUM OF 75 dBA AND A MAXIMUM OF 120 dBA. THE FOLLOWING MUST BE ACHIEVED: A MINIMUM OF 15 dBA OVER AVERAGE AMBIENT SOUND LEVEL. A MINIMUM OF 90 dBA IN MECHANICAL ROOMS. ALL STROBE OUTPUTS SHALL BE 110 CANDELA.
- CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL, PANELS AND OTHER DEVICES REQUIRING 120V POWER AND ABOVE. COORDINATE ALL REQUIREMENTS WITH DV-15.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED.

ELECTRICAL SYMBOL LIST	
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP
	SINGLE RECEPTACLE OUTLET
	SPECIAL PURPOSES OUTLET, 208/240 VOLT
	WALL SWITCH: 3 DENOTES THREE-WAY; 4 DENOTES FOUR-WAY; 0 DENOTES OCCUPANCY SENSOR
	WIRE CONCEALED IN WALLS OR CEILING
	SWITCHED CIRCUIT
	HOMERUN TO SERVICE PANEL, NUMBER OF WIRES INDICATED
	TELEVISION LOCATION, PROVIDE CABLE PER UTILITY COMPANY SPECIFICATIONS PULLED FROM BUILDING DEPART TO BOX IN WALL WITH COVER PLATE. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
	EXIT SIGN WITH BATTERY BACKUP (see schedule)
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED
	EMERGENCY LIGHT WITH BATTERY PACK
	TRANSFORMER
	DISCONNECT SWITCH
	THERMOSTAT
	JUNCTION BOX
	DUPLEX TELEPHONE/DATA OUTLET, PROVIDE CABLE PER UTILITY COMPANY SPECIFICATIONS FROM BUILDING DEPART TO BOX IN WALL WITH COVER PLATE. TYPICAL TO ALL PHONE LOCATIONS. PROVIDE DATA CABLE PER OWNER REQUIREMENTS FROM BUILDING PATCH PANEL TO BOX IN WALL WITH COVER PLATE. TYPICAL TO ALL DATA LOCATIONS. REFER TO SPECIFICATION FOR FURTHER DETAIL.
	REMOTE EMERGENCY HEAD
	EMERGENCY BATTERY
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF
	STROBE LIGHT
	FIRE ALARM COMBINATION HORN/STROBE; IF DENOTES LOW FREQUENCY HORN/STROBE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR; D DENOTES DUCT SMOKE DETECTOR; E DENOTES ELEVATOR RECALL



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PROJECT NAME:  
**ADDITION/REMODEL COMMUNITY CENTER**

PROJECT ADDRESS:  
**28 Abbe Road  
East Windsor, CT  
06088**

PROJ NO:  
**2021.33**  
ISSUE DATE:  
**10/11/2022**  
REVISION DATE:

DRAWING  
**ELECTRICAL DETAILS**

**E5**



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**Branch Panel: MDP**

Location: EX. MECH 126  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Vye  
Phases: 3  
Wires: 4

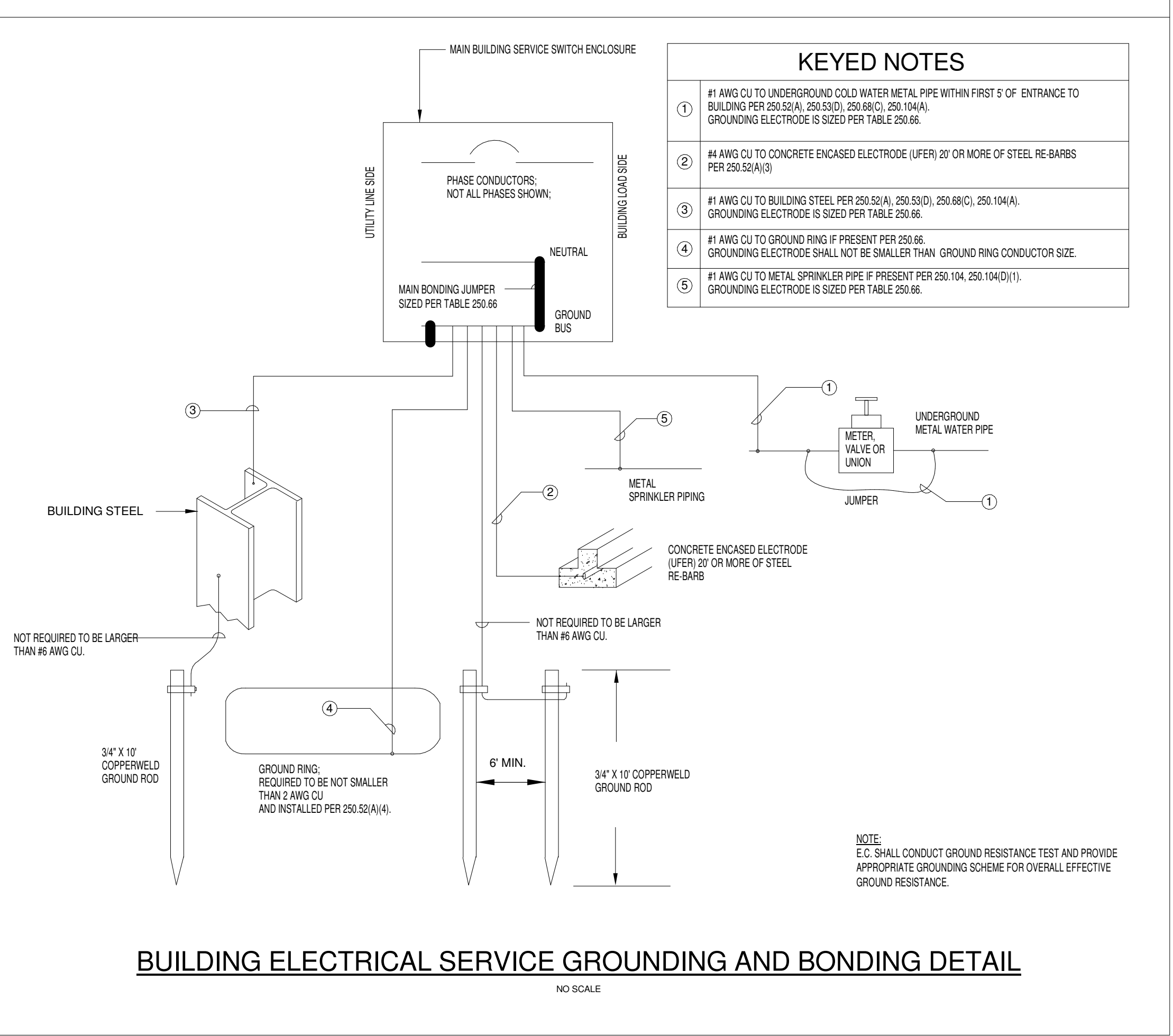
A.I.C. Rating:  
Mains Type:  
Mains Rating: 400 A  
MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	EX RTU	60 A	3	5588... 0 VA				3	250 A	EXISTING PANEL SH	
3	--	--	--		5588... 0 VA			--	--	4	
5	--	--	--			5588... 0 VA		--	--	6	
7	--	--	--					--	--	8	
9	--	--	--					--	--	10	
11	--	--	--					--	--	12	
13	--	--	--					--	--	14	
15	--	--	--					--	--	16	
17	--	--	--					--	--	18	
19	--	--	--					--	--	20	
21	--	--	--					--	--	22	
23	RTU-1	50 A	3	5280... 5280...				3	50 A	RTU-3	
27	--	--	--		5280... 5280...			--	--	28	
29	--	--	--			5280... 5280...		--	--	30	
31	RTU-2	50 A	3	5280... 1171...				3	125 A	RTU-4 (ALTERNATE TO REPLACE EXISTING)	
33	--	--	--		5280... 1171...			--	--	32	
35	--	--	--			5280... 1171...		--	--	34	
37	PANEL NP2	225 A	3	1195... 1302...				3	225 A	NP1	
39	--	--	--			1159... 1208...		--	--	36	
41	--	--	--			1159... 9597...		--	--	40	
				<b>Total Load:</b>	58096 VA	56752 VA					
				<b>Total Amps:</b>	487 A	476 A	453 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	6702 VA	100.00%	6702 VA	<b>Total Conn. Load:</b> 169153 VA <b>Total Est. Demand:</b> 160148 VA <b>Total Conn. Current:</b> 470 A <b>Total Est. Demand Current:</b> 445 A
Other	1174 VA	100.00%	1174 VA	
Power	133908 VA	100.00%	133908 VA	

**Notes:**

- NOTE:**
- GROUND RING AND TWO (2) GROUNDING RODS SHALL SERVE AS MAIN SYSTEM GROUND WHEN CONDITIONS ALLOW WHILE BONDING TOGETHER ALL OTHER SYSTEMS TO SERVICE GROUNDING SYSTEMS PER NEC. WHERE CONDITIONS DO NOT ALLOW E.C. SHALL PROVIDE OTHER GROUNDING ELECTRODES PER ARTICLE 250.22. IN ALL THREE PRIMARY GROUNDING ELECTRODES SHALL BE UTILIZED UPON COMPLETION WITH ALL SYSTEMS BONDING TOGETHER.
  - ALL OTHER METAL PARTS LIKE INTERNAL CU PLUMBING, MAIN SPRINKLER PIPE, WATER MAIN, GAS PIPES ETC SHALL BE BONDED WITH MAIN SERVICE GROUNDING WITH APPROPRIATE GROUNDING CONDUCTOR SIZE PER NEC TABLE 250.66.
  - THE GROUND RODS SHALL BE INSTALLED SUCH THAT AT LEAST 10 FEET OF LENGTH IS IN CONTACT WITH THE SOIL. IT SHALL BE DRIVEN TO A DEPTH OF NOT LESS THAN 10 FEET EXCEPT THAT, WHERE ROCK BOTTOM IS ENCOUNTERED, THE ROD SHALL BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL, OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 2 1/2 DEEP.
  - CONNECT MAIN SERVICE GROUNDING BUS TO BUILDING STEEL IF APPLICABLE. BUILDINGS WITHOUT STEEL STRUCTURE SHALL HAVE COPPER GROUNDING DIRECTLY CONNECTED TO GROUNDING GRID SYSTEM.



**BUILDING ELECTRICAL SERVICE GROUNDING AND BONDING DETAIL**

**FEEDER SIZING CHART**  
(REFER TO FEEDER LEGEND FOR APPLICATION OF THIS CHART)

AMPERAGE	NUMBER PARALLEL SETS	NEUTRAL CONDUCTOR(S)	STANDARD	OVERSIZED	EQUIPMENT	ISOLATED	RAWEWAY
50	1	(3) #8	(1) #8	(2) #10	(1) #10	NA	1"
60	1	(3) #6	(1) #6	(2) #8	(1) #8	(1) #10	1 1/4"
70	1	(3) #4	(1) #4	(2) #6	(1) #6	NA	1 1/4"
80	1	(3) #4	(1) #4	(2) #6	(1) #8	NA	1 1/4"
90	1	(3) #3	(1) #3	(2) #4	(1) #6	NA	1 1/2"
100	1	(3) #3	(1) #3	(2) #4	(1) #8	(1) #8	1 1/2"
110	1	(3) #2	(1) #2	(2) #4	(1) #6	(1) #6	2"
125	1	(3) #1	(1) #1	(2) #3	(1) #6	(1) #6	2"
150	1	(3) #1/0	(1) #1/0	(2) #2	(1) #6	(1) #6	2"
175	1	(3) #2/0	(1) #2/0	(2) #1	(1) #6	(1) #6	2 1/2"
200	1	(3) #3/0	(1) #3/0	(2) #1/0	(1) #6	(1) #6	2 1/2"
225	1	(3) #4/0	(1) #4/0	(2) #2/0	(1) #4	(1) #4	3"
250	1	(3) #250	(1) #250	(2) #3/0	(1) #4	(1) #4	3"
300	1	(3) #250	(1) #250	(2) #4/0	(1) #4	(1) #4	4"
350	1	(3) #500	(1) #500	(2) #300	(1) #3	(1) #3	4"
400	2	(3) #3/0	(1) #3/0	(2) #350	(1) #3	(1) #3	4"
450	2	(3) #4/0	(1) #4/0	(2) #2/0	(1) #2	(1) #2	4"
500	2	(3) #250	(1) #250	(2) #3/0	(1) #2	(1) #2	4"
600	2	(3) #350	(1) #350	(2) #4/0	(1) #1/0	(1) #1/0	4"
700	2	(3) #500	(1) #500	(2) #300	(1) #1/0	(1) #1/0	4"
800	2	(3) #600	(1) #600	(2) #350	(1) #1/0	(1) #1/0	4"
1000	3	(3) #400	(1) #400	NA	(1) #2/0	NA	4"
1200	4	(3) #350	(1) #350	NA	(1) #3/0	NA	4"
1600	5	(3) #400	(1) #400	NA	(1) #4/0	NA	4"
2000	6	(3) #500	(1) #500	NA	(1) #250	NA	4"
2500	7	(3) #500	(1) #500	NA	(1) #350	NA	4"
3000	8	(3) #500	(1) #500	NA	(1) #400	NA	4"

**FEEDER LEGEND**

**NOTE:** SEE FEEDER SIZING CHART FOR SIZE OF NEUTRAL AND GROUNDING CONDUCTORS BASED ON AMPERAGE OF FEEDER. COORDINATE FEEDER LENGTHS WITH VOLTAGE DROP IN FIELD PER NEC

INDICATES AMPERAGE OF FEEDER UTILIZING THIN/THIN CONDUCTORS. SEE FEEDER SIZING CHART FOR SIZING OF PHASE CONDUCTORS AND RACEWAY.

INDICATES QUANTITY OF NEUTRAL CONDUCTORS PER PARALLEL SET:  
-N = NO NEUTRALS  
1N = ONE STANDARD NEUTRAL  
2N = OVERSIZED NEUTRAL

INDICATES QUANTITY OF GROUND CONDUCTORS PER PARALLEL SET:  
-G = NO GROUNDING CONDUCTORS  
1G = ONE EQUIPMENT GROUNDING CONDUCTOR AND ONE ISOLATED GROUND CONDUCTOR  
2G = ONE EQUIPMENT GROUNDING CONDUCTOR AND ONE ISOLATED GROUND CONDUCTOR

**EXAMPLE:**  
250A 1N 1G = (3) #250 KCML (1) #250 KCML NEUTRAL (1) #4 EQUIPMENT GROUND (1) 3" RACEWAY

**VOLTAGE DROP SCHEDULE**

120 VOLT BRANCH CIRCUITS UP TO 8 AMPS	WIRE SIZE AWG
1' - 120'	#12
121' - 210'	#10
211' - 320'	#8
321' - 500'	#6

120 VOLT BRANCH CIRCUITS 9 AMPS TO 14 AMPS	WIRE SIZE AWG
1' - 70'	#12
71' - 120'	#10
121' - 180'	#8
181' - 280'	#6

208 VOLT BRANCH CIRCUITS UP TO 14 AMPS	WIRE SIZE AWG
1' - 125'	#12
126' - 210'	#10
211' - 320'	#8
321' - 500'	#6

277 VOLT BRANCH CIRCUITS UP TO 14 AMPS	WIRE SIZE AWG
1' - 170'	#12
171' - 280'	#10
281' - 420'	#8
421' - 670'	#6

**MINIMUM WIRE & CONDUIT SIZES FOR CIRCUIT BREAKERS AND FUSES**

AMPS	CONDUCTOR	FUSE	CONDUIT
15	#12	#12	3/4"
20	#12	#12	3/4"
25	#10	#10	3/4"
30	#10	#10	3/4"
35	#8	#10	1"
40	#8	#10	1"
45	#8	#10	1"
50	#8	#10	1"
60	#6	#10	1 1/4"
70	#4	#6	1 1/4"
80	#4	#6	1 1/4"
90	#3	#6	1 1/2"
100	#3	#6	1 1/2"

PROVIDE THE FOLLOWING QUANTITIES:  
1 POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND  
2 POLE CIRCUIT - 2 HOT, 1 GROUND  
3 POLE CIRCUIT - 3 HOT, 1 GROUND  
1 POLE IG CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND, 1 ISOLATED GROUND

**Branch Panel: NP1**

Location: EX. MECH 126  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Vye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 225 A  
MCB Rating: 225 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Receptacle	20 A	1	1440... 1260...				1	20 A	Receptacle	2
3	Receptacle	20 A	1		1080... 1260...			1	20 A	Receptacle	4
5	Receptacle	20 A	1			900 VA 1260...		1	20 A	Receptacle	6
7	Receptacle	20 A	1	1800... 1260...				1	20 A	Receptacle	8
9	Receptacle	20 A	1		1440... 1080...			1	20 A	Receptacle	10
11	Receptacle	20 A	1			1440... 720 VA		1	20 A	Receptacle	12
13	Treadmill	20 A	1	1500...				1	20 A	Treadmill	14
15	Treadmill	20 A	1		1500... 1500...			1	20 A	Treadmill	16
17	Treadmill	20 A	1			1500... 1500...		1	20 A	Treadmill	18
19	Lighting	20 A	1	404 VA 748 VA				1	20 A	Lighting	20
21	Lighting	20 A	1		978 VA 978 VA			1	20 A	Lighting	22
23	Lighting	20 A	1			218 VA 552 VA		1	20 A	Lighting	24
25	Lighting	20 A	1	651 VA 1500...				1	20 A	EH-8	26
27	Receptacle	20 A	1		720 VA 540 VA			1	20 A	Receptacle	28
29	Lighting	20 A	1			844 VA 540 VA		1	20 A	Exterior Receptacles	30
31	Other	20 A	1	1174... 540 VA				1	20 A	Exterior Receptacles	32
33	Lighting	20 A	1		252 VA 993 VA			1	20 A	Lighting	34
35	Lighting	20 A	1			84 VA 180 VA		1	20 A	Receptacle	36
37	Receptacle	20 A	1	180 VA 720 VA				1	20 A	Receptacle	38
39	--	--	--	--	--	--	--	--	--	40	
41	--	--	--	--	--	--	--	--	--	42	
				<b>Total Load:</b>	13020 VA	12082 VA	9597 VA				
				<b>Total Amps:</b>	112 A	104 A	80 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	6702 VA	100.00%	6702 VA	<b>Total Conn. Load:</b> 34689 VA <b>Total Est. Demand:</b> 26796 VA <b>Total Conn. Current:</b> 96 A <b>Total Est. Demand Current:</b> 74 A
Other	1174 VA	100.00%	1174 VA	
Power	1500 VA	100.00%	1500 VA	

**Notes:**

**Branch Panel: NP2**

Location: EX. MECH 126  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Vye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 225 A  
MCB Rating: 225 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	EH-1	20 A	3	1333... 1333...				3	20 A	EH-2	2
3	--	--	--		1333... 1333...			--	--	4	
5	--	--	--			1333... 1333...		--	--	6	
7	EH-3	20 A	3	1666... 1666...				3	20 A	EH-4	8
9	--	--	--		1666... 1666...			--	--	10	
11	--	--	--			1666... 1666...		--	--	12	
13	EH-6	20 A	3	1666... 1666...				3	20 A	EH-7	14
15	--	--	--		1666... 1666...			--	--	16	
17	--	--	--			1666... 1666...		--	--	18	
19	EH-5	20 A	3	1666... 598 VA				1	20 A	SUMP PUMP	20
21	--	--	--			1666... 598 VA		1	20 A	SUMP PUMP	22
23	--	--	--					1	20 A	SUMP PUMP	24
25	Receptacle	20 A	1	360 VA				1	20 A	Receptacle	26
27	--	--	--	--	--	--	--	--	--	28	
29	--	--	--	--	--	--	--	--	--	30	
31	--	--	--	--	--	--	--	--	--	32	
33	--	--	--	--	--	--	--	--	--	34	
35	--	--	--	--	--	--	--	--	--	36	
37	--	--	--	--	--	--	--	--	--	38	
39	--	--	--	--	--	--	--	--	--	40	
41	--	--	--	--	--	--	--	--	--	42	
				<b>Total Load:</b>	11954 VA	11594 VA	11594 VA				
				<b>Total Amps:</b>	100 A	97 A					