

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN 46254

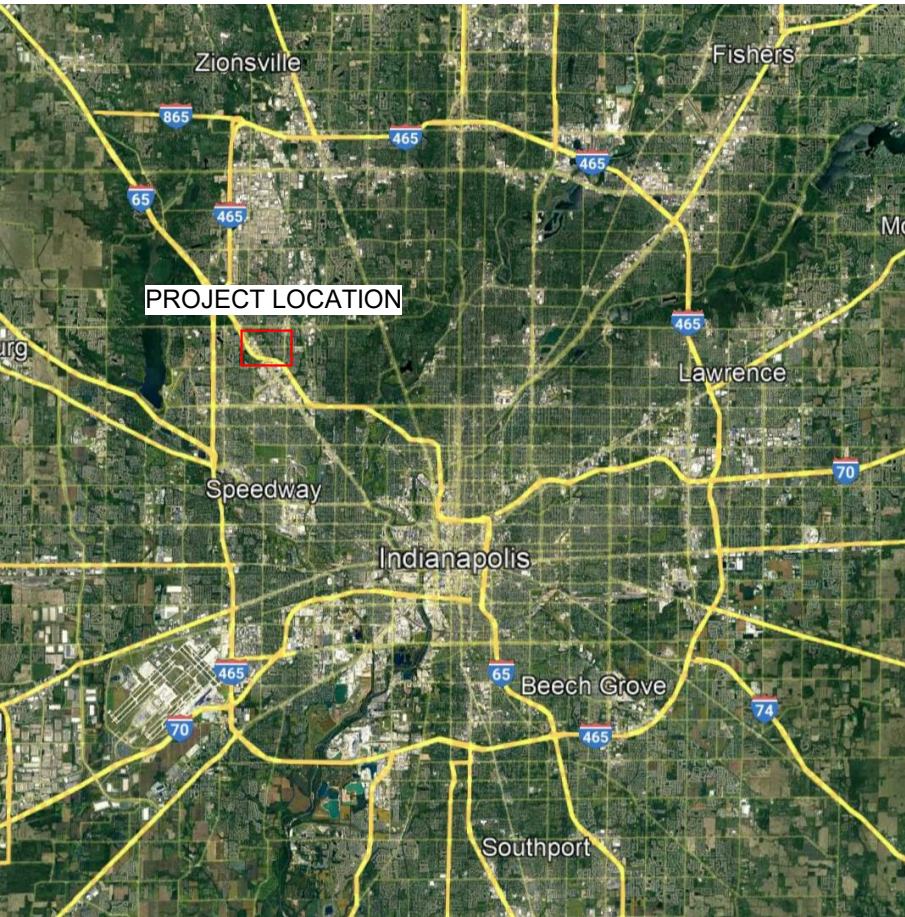
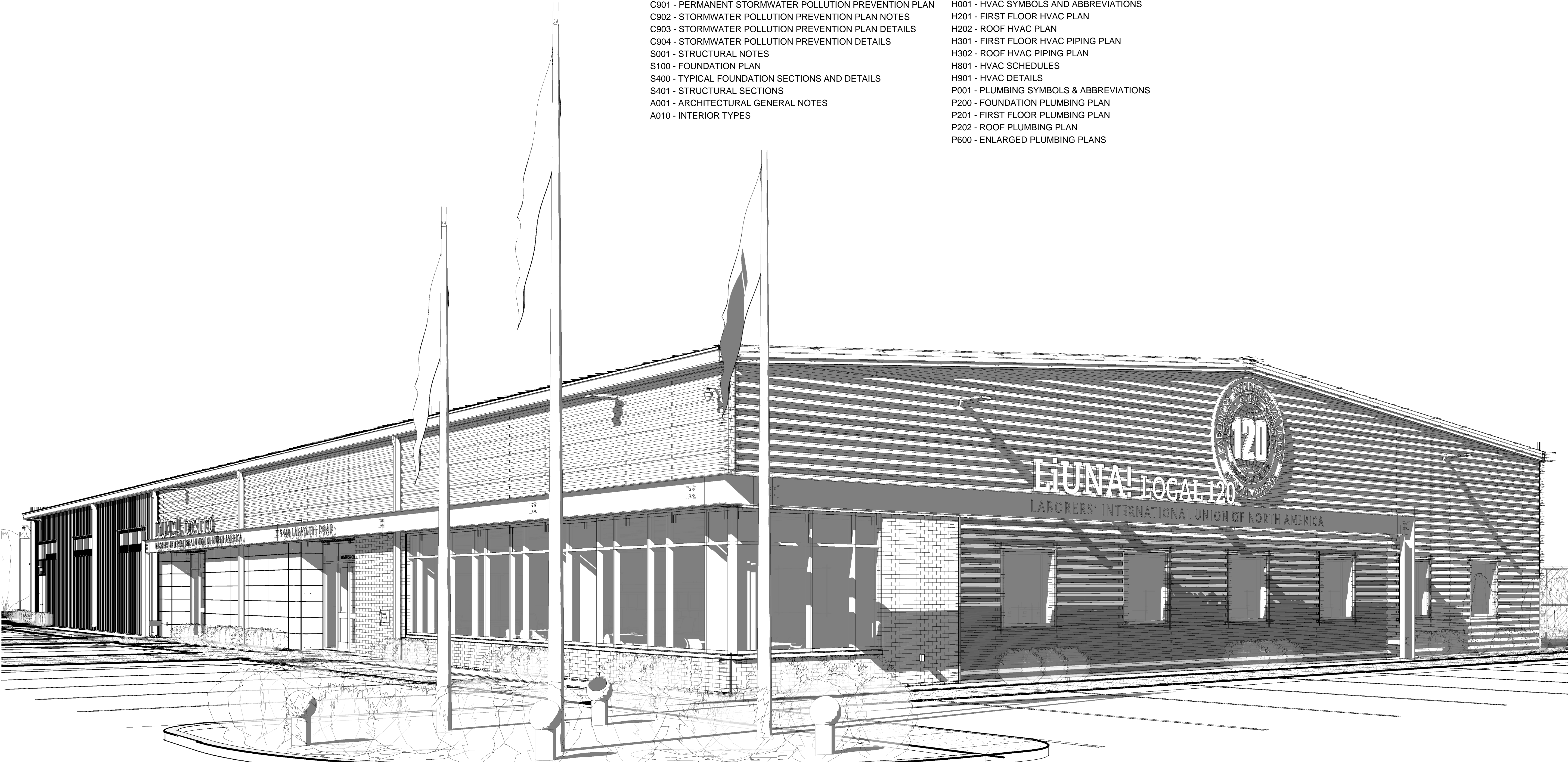
PERMIT SET - 02.11.2022

DRAWING LIST

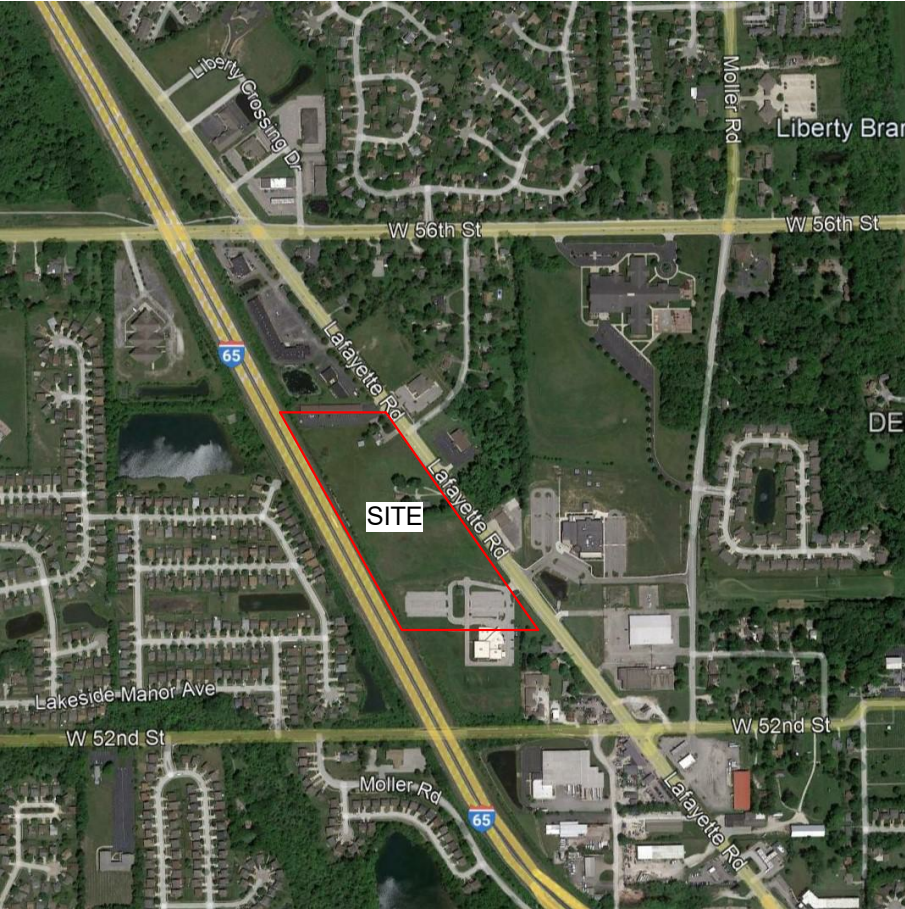
21102 - LiUNA LOCAL 120 - COVER  
G101 - LIFE SAFETY PLAN  
C000 - TITLE SHEET  
ALTA - ALTA.NSPS LAND TITLE SURVEY  
TOPO - TOPOGRAPHIC SURVEY  
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C201 - SITE LAYOUT PLAN - WEST  
C202 - SITE LAYOUT PLAN - EAST  
C300 - GRADING PLAN  
C301 - GRADING PLAN - WEST  
C302 - GRADING PLAN - EAST  
C400 - DRAINAGE PLAN  
C401 - STORM SEWER PROFILES  
C402 - STORM SEWER PROFILES  
C500 - SITE UTILITY PLAN  
C700 - LANDSCAPE PLAN  
C800 - SITE DETAILS  
C801 - SITE DETAILS  
C802 - SITE DETAILS  
C803 - SITE DETAILS  
C804 - SITE DETAILS  
C805 - SITE DETAILS  
C806 - STORM SEWER SPECIFICATIONS  
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C903 - STORMWATER POLLUTION PREVENTION PLAN DETAILS  
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S100 - FOUNDATION PLAN  
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A010 - INTERIOR TYPES

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A201A - ENTRANCE GLAZING DIAGRAM  
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P202 - ROOF PLUMBING PLAN  
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P700 - SANITARY RISER DIAGRAM  
P701 - DOMESTIC WATER RISER DIAGRAM  
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E301 - FIRST FLOOR POWER & SYSTEMS PLAN  
E301A - FIRST FLOOR MECHANICAL EQUIPMENT POWER AND SYSTEMS PLAN  
E302 - ROOF ELECTRICAL POWER & SYSTEMS PLAN  
E601 - ENLARGED ELECTRICAL PLANS  
E701 - ELECTRICAL ONELINE RISER DIAGRAM  
E702 - ELECTRICAL SCHEMATICS  
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E802 - ELECTRICAL SCHEDULES  
E901 - ELECTRICAL DETAILS  
E902 - ELECTRICAL DETAILS



VICINITY MAP



LOCATION MAP

ARCHITECT



arcDESIGN, PC  
201 N. Delaware St.  
Indianapolis, IN 46204  
Telephone: 317.951.9192  
Fax: 317.951.9194

www.arcdesign.us

MECHANICAL,  
ELECTRICAL,  
PLUMBING,  
TECHNOLOGY



Genesis Engineering Group  
91 S. Main Street, Suite 200  
Zionsville, IN 46077  
Telephone: 317.927.8307

www.genesis-engineering.com

CIVIL /  
LANDSCAPE

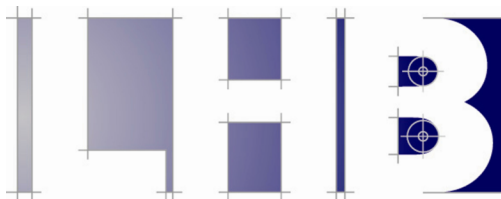


Civil & Environmental  
Consultants, Inc.

Civil & Environmental Consultants, Inc.  
530 E. Ohio St. Suite G  
Indianapolis, IN 46204  
Telephone: 317.655.7777  
Fax: 317.655.7778

www.arcdesign.us

STRUCTURAL



Lynch, Harrison, and Brumleve, Inc.  
550 Virginia Ave.  
Indianapolis, IN 46203  
Telephone: 317.423.1150  
Fax: 317.423.1551

www.lhb-eng.com

GENERAL  
CONTRACTOR



HANNIG  
CONSTRUCTION INC

HANNIG CONSTRUCTION, INC.  
815 Swan Street  
Terre Haute, IN 47807  
Telephone: 812.235.6218  
Fax: 812.235.1218

www.hannigconstruction.com

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN 46254

PERMIT SET



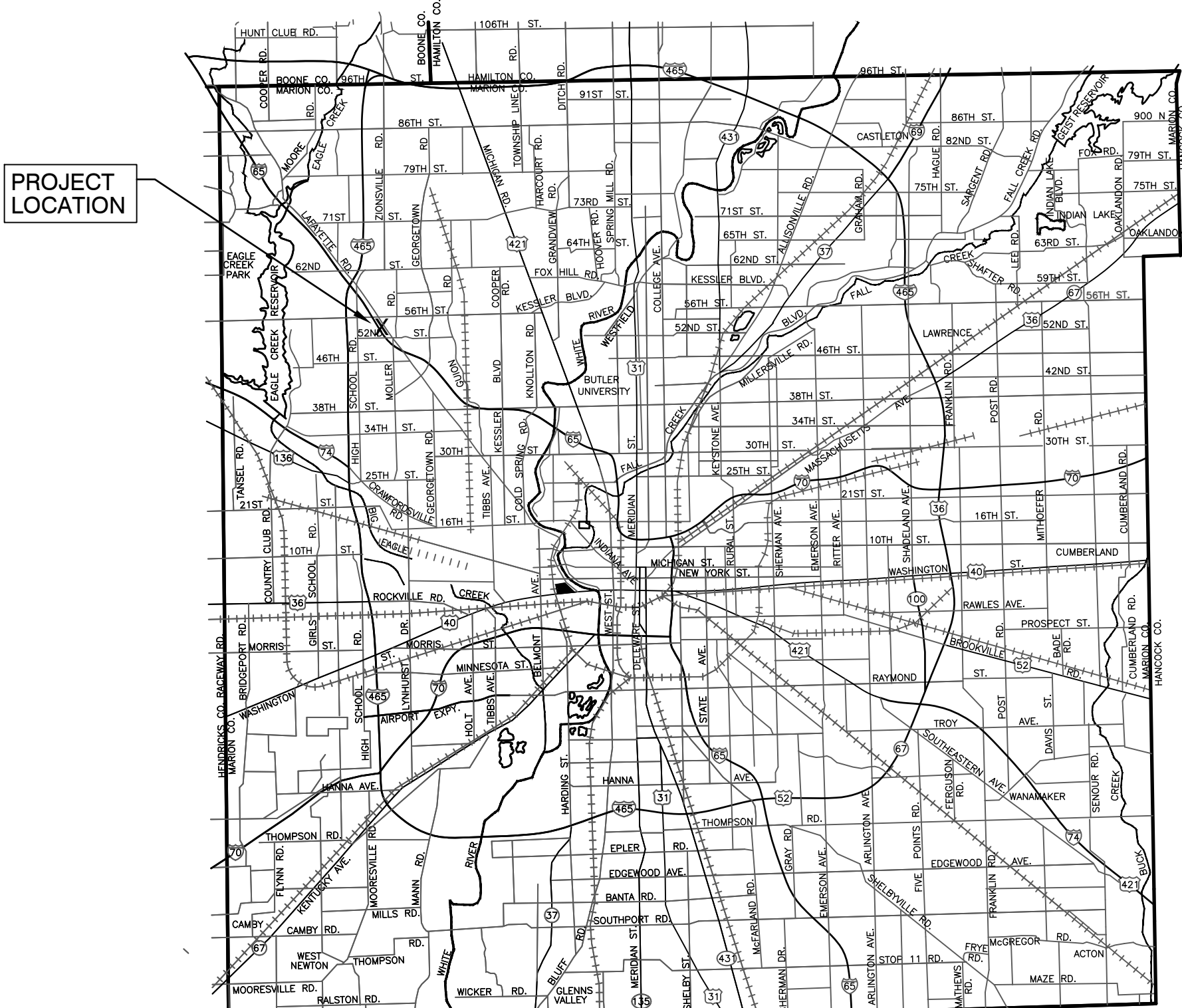




# LIUNA LOCAL 120 OFFICE BUILDING

5430 LAFAYETTE ROAD, INDIANAPOLIS, IN 46254

PERMIT SET  
DECEMBER 21, 2021



LOCATION MAP  
MARION COUNTY, INDIANA



VICINITY MAP

Sheet List Table		
Sheet Number	Sheet Title	Drawing Number
1	TITLE SHEET	C000
2	ALTA SURVEY	ALTA
3	TOPOGRAPHIC SURVEY	TOPO
4	DEMOLITION PLAN	C101
5	SITE LAYOUT PLAN	C200
6	SITE LAYOUT PLAN - WEST	C201
7	SITE LAYOUT PLAN - EAST	C202
8	GRADING PLAN	C300
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10	GRADING PLAN - EAST	C302
11	DRAINAGE PLAN	C400
12	STORM SEWER PROFILES	C401
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14	SITE UTILITY PLAN	C500
15	LANDSCAPE PLAN	C700
16	SITE DETAILS	C800
17	SITE DETAILS	C801
18	SITE DETAILS	C802
19	SITE DETAILS	C803
20	SITE DETAILS	C804
21	SITE DETAILS	C805
22	STORM SEWER SPECIFICATIONS	C806
23	STORM SEWER SPECIFICATIONS	C807
24	SANITARY SEWER SPECIFICATIONS	C808
25	STORMWATER POLLUTION PREVENTION PLAN	C900
26	STORMWATER POLLUTION PREVENTION PLAN	C901
27	STORMWATER POLLUTION PREVENTION PLAN NOTES	C902
28	STORMWATER POLLUTION PREVENTION PLAN DETAILS	C903
29	STORMWATER POLLUTION PREVENTION DETAILS	C904

## BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: CUT "X" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD. APPROXIMATELY 115 NORTH OF THE SOUTHWEST CORNER OF THE SITE.  
ELEV. = 805.42

TBM#2: CUT SQUARE ON THE BACK OF A CURB LOCATED ON THE WEST SIDE OF LAFAYETTE RD APPROXIMATELY 125 NORTH OF THE NORTHEAST CORNER OF THE SITE.  
ELEV. = 808.94

TBM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF A FLAGPOLE BASE, LOCATED ON THE NORTH END OF THE SITE  
ELEV. = 805.93

## UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2103244667 AND 2103244762 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

## CITY OF INDIANAPOLIS CODE COMPLIANCE

### DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES

1200 MADISON AVE., SUITE 100  
INDIANAPOLIS, IN 46225  
PH: (317) 327-8700

## REFERENCE

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

## CONSULTANT TEAM:

### OWNER/DEVELOPER

**LIUNA LOCAL 120**  
**1520 E. RIVERSIDE DR.**  
**INDIANAPOLIS, IN 46202**  
PH: (317) 634-8551  
CONTACT: WARD DANIELS,  
BUSINESS MANAGER  
EMAIL: wdaniels@laborers120.com

### ARCHITECT

**ARC DESIGN**  
201 N. DELAWARE ST, STE. B  
INDIANAPOLIS, IN 46204  
PH: (317) 951-9192  
CONTACT: GREG MILLER  
EMAIL: GMILLER@ARCDISIGN.US

### CIVIL ENGINEER

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.**  
530 E. OHIO STREET, SUITE G  
INDIANAPOLIS, IN 46204  
PH: (317) 655-7777  
CONTACT: AARON HURT

### SURVEYOR

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.**  
530 E. OHIO STREET, SUITE G  
INDIANAPOLIS, IN 46204  
PH: (317) 655-7777  
CONTACT: ANTHONY SYERS

## NOTE:

TOTAL SITE AREA = 5.37 ACRES

## WATER QUALITY STATE PLANE COORDINATES TABLE:

AQUA-SWIRL XC-9 X=161362.4206,  
Y=1676352.9645

## STORMWATER STRUCTURE SUMMARY TABLE:

PROPOSED STRUCTURES = 19  
PROPOSED WATER QUALITY STR. = 1

## PRIVATE:

12" HDPE	167 LF
15" HDPE	397 LF
18" HDPE	495 LF
24" HDPE	205 LF
30" HDPE	28 LF
12" RCP	233 LF
15" RCP	137 LF
18" RCP	25 LF
30" RCP	433 LF

## UTILITY CONTACTS:

ELECTRIC:  
AES INDIANA  
MARSHALL FRANKLIN  
1230 WEST MORRIS STREET  
INDIANAPOLIS, IN 46221  
PHONE: 317-261-5698  
317-437-0280 (CELL)  
marshall.franklin@AES.com

GAS:  
CITIZENS GAS  
RICH MILLER  
2020 NORTH MERIDIAN STREET  
INDIANAPOLIS, IN 46204  
PHONE: 317-927-4684

WATER:  
CITIZENS ENERGY GROUP  
RICH NEWELL  
2020 NORTH MERIDIAN STREET  
INDIANAPOLIS, IN 46204  
PHONE: 317-927-4377

SEWER:  
CITIZENS ENERGY GROUP  
BRAD HOSTETLER  
CWA AUTHORITY, INC.  
2150 DR. MARTIN LUTHER KING JR. ST.  
INDIANAPOLIS, IN 46202  
PHONE: 317-927-4351

INFRASTRUCTURE:  
CITY OF INDIANAPOLIS  
JEFF MEID  
PROJECT COMPLIANCE ANALYST  
1200 MADISON AVENUE, SUITE 100  
INDIANAPOLIS, INDIANA 46225  
317-327-4952  
jmeid@indy.gov.org

TELEPHONE / FIBER / CABLE:  
INTELLIGENT FIBER NETWORK  
DEAN BOYERS  
400 INTERNATIONAL PKWY.  
RICHARDSON, TX 75081

ZAYO BANDWIDTH  
JEFF KENNELLY  
PROPERTY SOLUTION EXECUTIVE  
3030 ROOSEVELT AVENUE  
INDIANAPOLIS, IN 46218  
PHONE: 317-713-3899  
jeff.kennelly@mybriighthouse.com

ATT DISTRIBUTION  
SCOTT ECKMAN  
MANAGER PLANNING & ENGINEERING  
PHONE: 317-252-4223  
317-525-1660 (CELL)  
se7939@att.com

## REVISION RECORD

NO.	DATE	DESCRIPTION
1	09/11/2021	AS BIDDING #3

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46204  
PH: 317.655.7777 FAX: 317.655.7778

**arcDESIGN**  
architecture • interiors

ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

## PERMIT SET

TITLE SHEET		JOB
DATE:	DECEMBER 21, 2021	DRAWN BY:
DWG SCALE:	AS NOTED	CHECKED BY:
PROJECT NO:	310-295	DRAFT
APPROVED BY:		

DRAWING NO.:

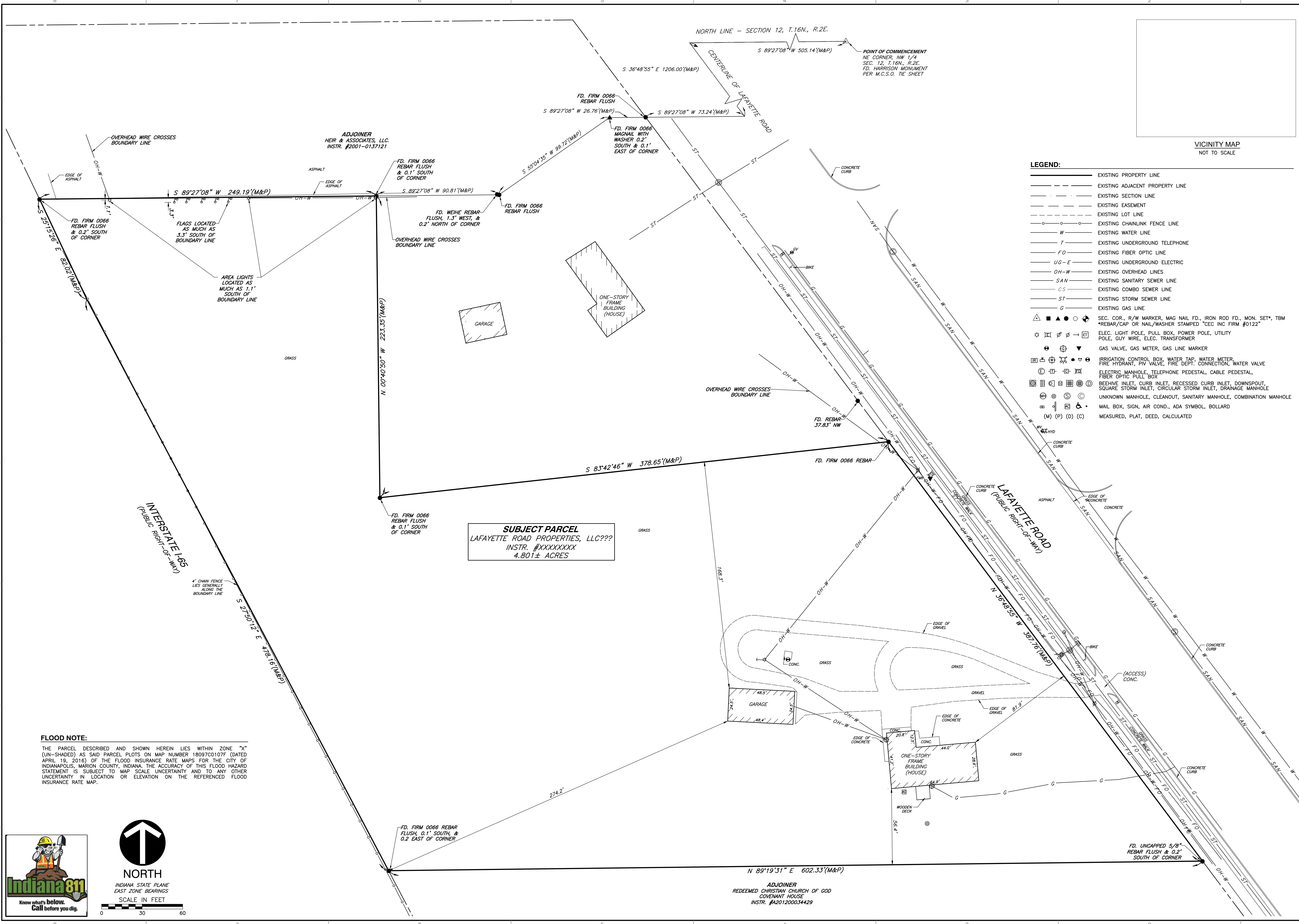
**C000**

SHEET 1 OF 1





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**FLOOD NOTE:**  
THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18097C0107F (DATED APRIL 19, 2016) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF INDIANAPOLIS, MARION COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.



- LEGEND:**
- EXISTING PROPERTY LINE
  - EXISTING ADJACENT PROPERTY LINE
  - EXISTING SECTION LINE
  - EXISTING EASEMENT
  - EXISTING LOT LINE
  - EXISTING CHAINLINK FENCE LINE
  - EXISTING WATER LINE
  - EXISTING UNDERGROUND TELEPHONE
  - EXISTING FIBER OPTIC LINE
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING OVERHEAD LINES
  - EXISTING SANITARY SEWER LINE
  - EXISTING COMBO SEWER LINE
  - EXISTING STORM SEWER LINE
  - EXISTING GAS LINE
  - SEC. COR., R/W MARKER, MAG NAIL FD., IRON ROD FD., MON. SET\*, TBM
  - \*REBAR/CAP OR NAIL/WASHER STAMPED "CEC INC FIRM #0122"
  - ELEC. LIGHT POLE, PULL BOX, POWER POLE, UTILITY POLE, GUY WIRE, ELEC. TRANSFORMER
  - GAS VALVE, GAS METER, GAS LINE MARKER
  - IRRIGATION CONTROL BOX, WATER TAP, WATER METER, FIRE HYDRANT, FIV VALVE, FIRE DEPT. CONNECTION, WATER VALVE
  - ELECTRIC MANHOLE, TELEPHONE PEDESTAL, CABLE PEDESTAL, FIBER OPTIC PULL BOX
  - BEEHIVE INLET, CURB INLET, RECESSED CURB INLET, DOWNSPOUT, SQUARE STORM INLET, CIRCULAR STORM INLET, DRAINAGE MANHOLE
  - UNKNOWN MANHOLE, CLEANOUT, SANITARY MANHOLE, COMBINATION MANHOLE
  - MAIL BOX, SIGN, AIR COND., ADA SYMBOL, BOLLARD
  - MEASURED, PLAT, DEED, CALCULATED

VICINITY MAP  
NOT TO SCALE

REVISION RECORD	
NO	DATE

**Civil & Environmental Consultants, Inc.**  
530 E. Ohio Street - Suite G - Indianapolis, IN 46204  
317-655-7777 - 877-746-0749  
www.cecinc.com

**ARC DESIGN, P.C.**  
LIUNA LOCAL 120  
5440 LAFAYETTE ROAD,  
INDIANAPOLIS, INDIANA

ALTA/NSPS LAND TITLE SURVEY	
DATE: SEPTEMBER 26, 2021	DRAWN BY: CJV
DWG SCALE: 1"=30'	TJIT
PROJECT NO: 310-295	310-295
APPROVED BY:	DRAFT
DRAWING NO. <b>ALTA</b>	
SHEET 1	OF 2

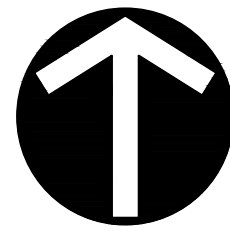


PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

TBM#1: CUT "X" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD. APPROXIMATELY 115 NORTH OF THE SOUTHEAST CORNER OF THE SITE.

ELEV. = 805.42

TBM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF THE MIDDLE FLAGPOLE  
BASE, LOCATED ON THE NORTH END OF THE SITE  
ELEV. = 805.93



SCALE IN FEET

0 30 60

REVISION RECORD	DESCRIPTION
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**CEC**

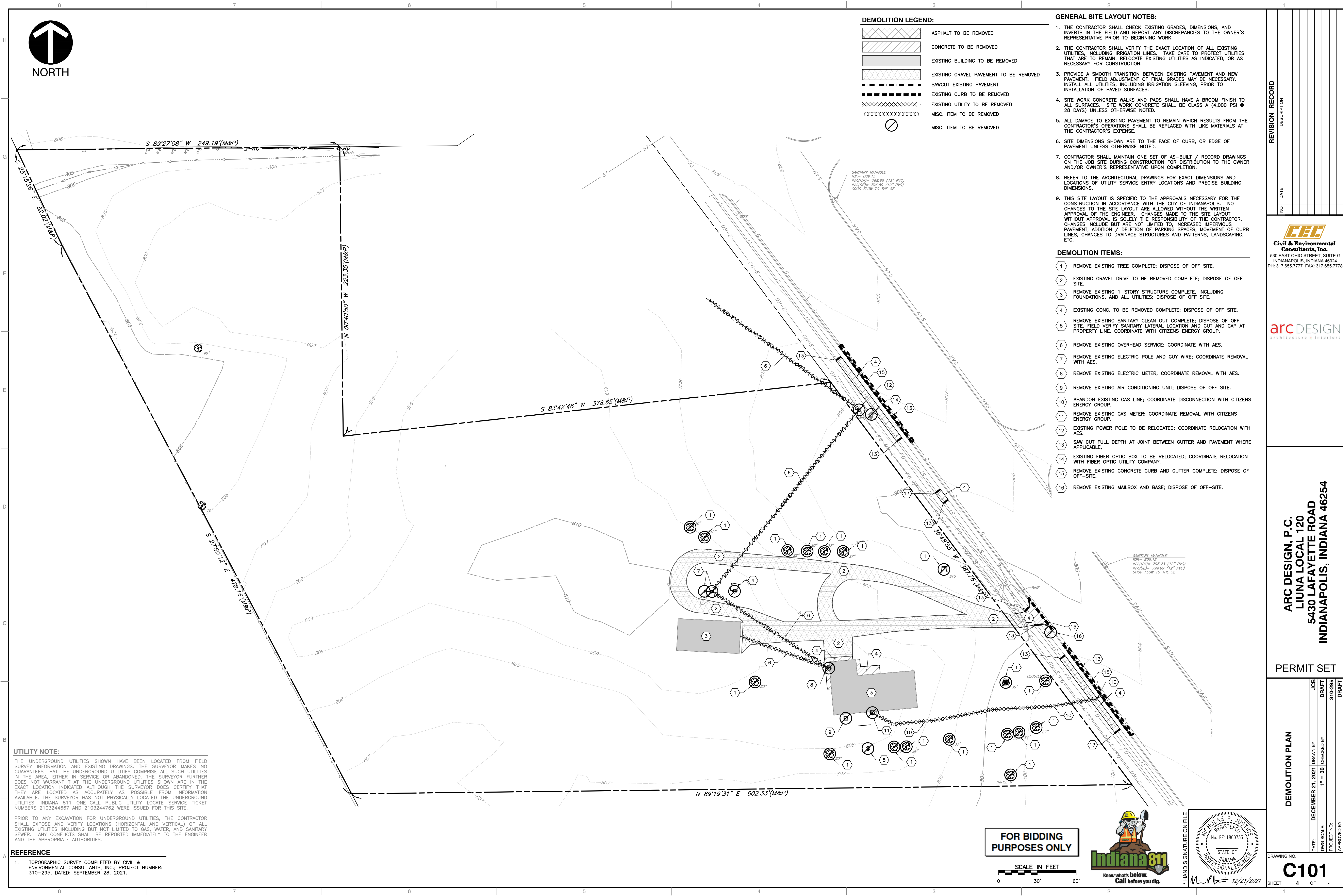
**Civil & Environmental Consultants, Inc.**  
530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
317-655-7777 • 877-746-0749  
[www.cecinc.com](http://www.cecinc.com)

**ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5440 LAFAYETTE ROAD,  
INDIANAPOLIS, INDIANA**

SEPTEMBER 28, 2021	DRAWN BY:	CJV
1"=30'	CHECKED BY:	TJT
		310-295
		DRAFT

DRAWING NO.:  
**TOPO**  
SHEET 1 OF 1





## REFERENCE

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

## DEMOLITION ITEMS:

1	REMOVE EXISTING TREE COMPLETE; DISPOSE OF OFF SITE.
2	EXISTING GRAVEL DRIVE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3	REMOVE EXISTING 1-STORY STRUCTURE COMPLETE, INCLUDING FOUNDATIONS, AND ALL UTILITIES; DISPOSE OF OFF SITE.
4	EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
5	REMOVE EXISTING SANITARY CLEAN OUT COMPLETE; DISPOSE OF OFF SITE. FIELD VERIFY SANITARY LATERAL LOCATION AND CUT AND CAP AT PROPERTY LINE. COORDINATE WITH CITIZENS ENERGY GROUP.
6	REMOVE EXISTING OVERHEAD SERVICE; COORDINATE WITH AES.
7	REMOVE EXISTING ELECTRIC POLE AND GUY WIRE; COORDINATE REMOVAL WITH AES.
8	REMOVE EXISTING ELECTRIC METER; COORDINATE REMOVAL WITH AES.
9	REMOVE EXISTING AIR CONDITIONING UNIT; DISPOSE OF OFF SITE.
10	ABANDON EXISTING GAS LINE; COORDINATE DISCONNECTION WITH CITIZENS ENERGY GROUP.
11	REMOVE EXISTING GAS METER; COORDINATE REMOVAL WITH CITIZENS ENERGY GROUP.
12	EXISTING POWER POLE TO BE RELOCATED; COORDINATE RELOCATION WITH AES.
13	SAW CUT FULL DEPTH AT JOINT BETWEEN GUTTER AND PAVEMENT WHEN APPLICABLE.
14	EXISTING FIBER OPTIC BOX TO BE RELOCATED; COORDINATE RELOCATION WITH FIBER OPTIC UTILITY COMPANY.
15	REMOVE EXISTING CONCRETE CURB AND GUTTER COMPLETE; DISPOSE OF OFF-SITE.
16	REMOVE EXISTING MAILBOX AND BASE; DISPOSE OF OFF-SITE.

**Civil & Environmental  
Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

<h2 style="margin: 0;">DEMOLITION PLAN</h2>		<b>JCB</b>
DATE:	<b>DECEMBER 21, 2021</b>	DRAWN BY:
DWG SCALE:	<b>1" = 30'</b>	CHECKED BY:
PROJECT NO:	<b>310-295</b>	DRAFT
APPROVED BY:		DRAFT

DRAWING NO.: C101

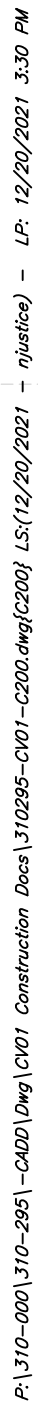
7 SHEET
4 OF
-

\* HAND SIGNATURE ON FILE

NICHOLAS P. JUSTICE  
REGISTERED  
No. PE11800753  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

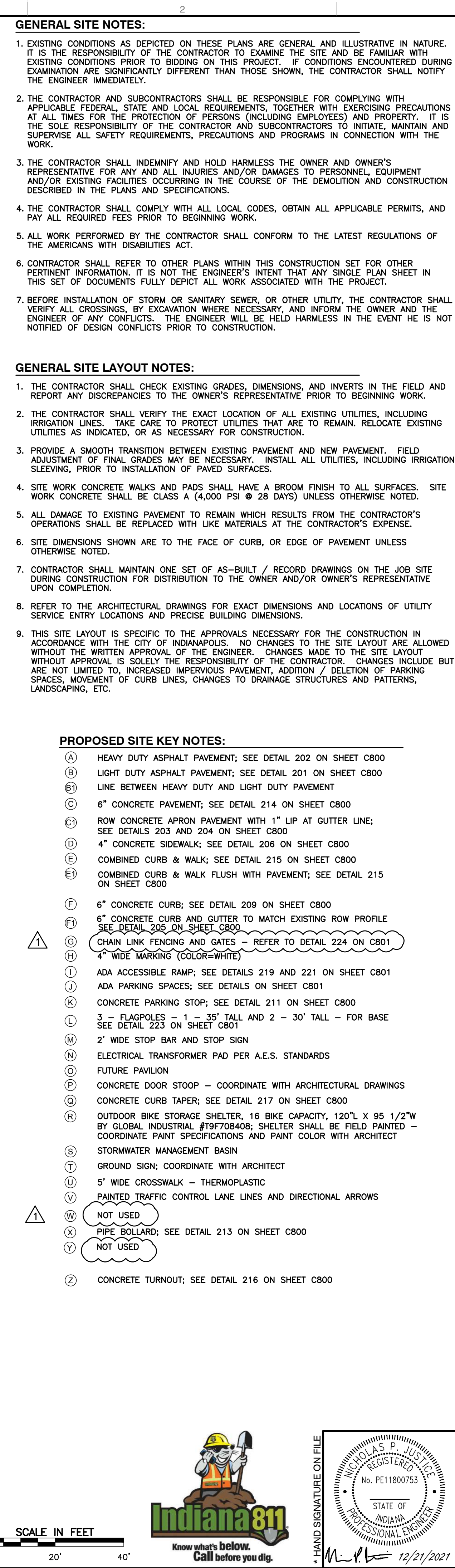
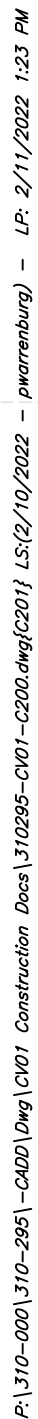
*N. P. Justice* 12/21/2002





SHEET 5 OF 10



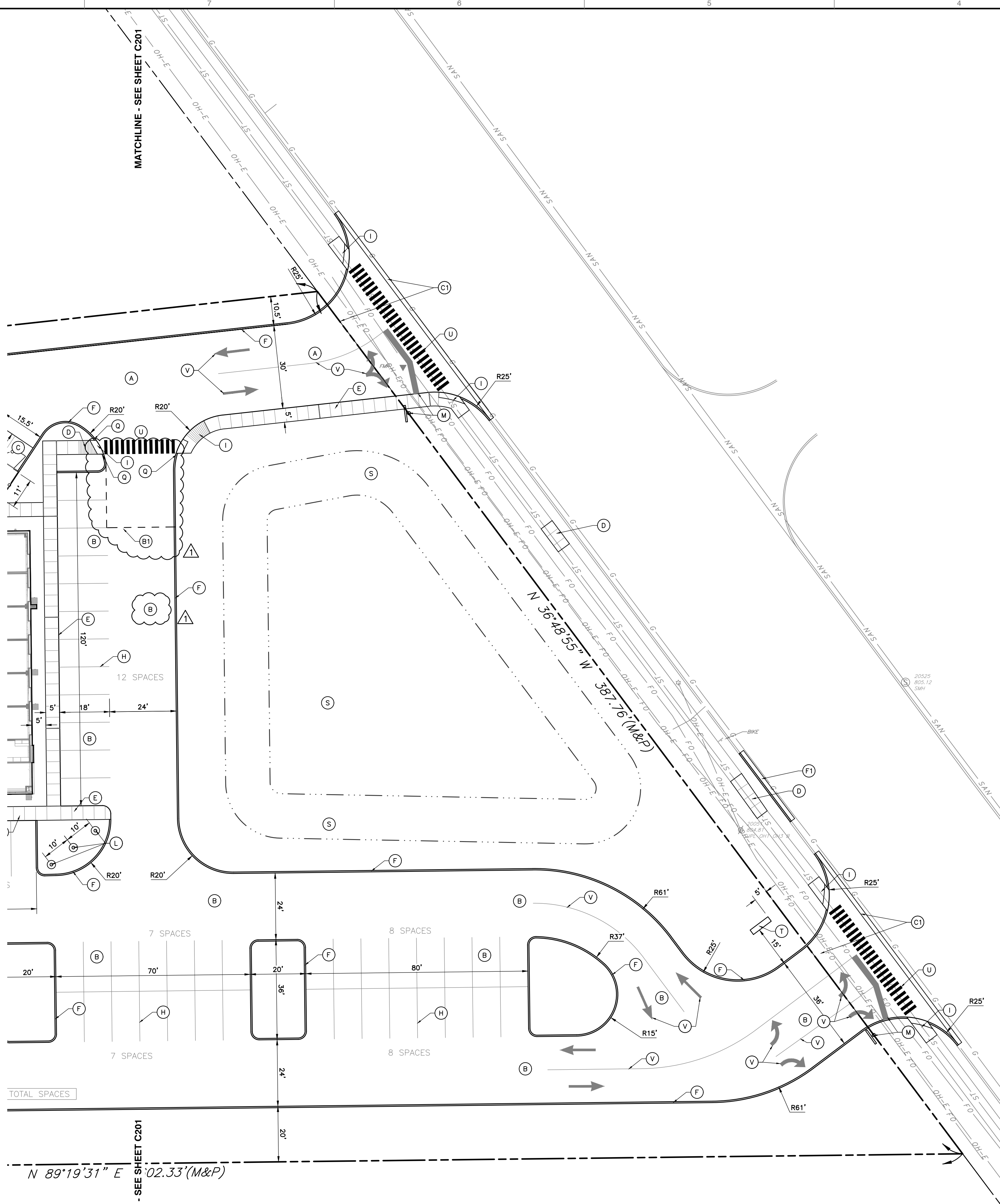


A	
B	
C	
D	
E	
F	
G	
H	





MATCHLINE - SEE SHEET C201



MATCHLINE - SEE SHEET C201

#### REFERENCE

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

#### GENERAL SITE NOTES:

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
5. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
6. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
7. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

#### GENERAL SITE LAYOUT NOTES:

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
4. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS A (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
5. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
6. SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
9. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF INDIANAPOLIS. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO: INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

#### PROPOSED SITE KEY NOTES:

- (A) HEAVY DUTY ASPHALT PAVEMENT; SEE DETAIL 202 ON SHEET C800
- (B) LIGHT DUTY ASPHALT PAVEMENT; SEE DETAIL 201 ON SHEET C800
- (B1) LINE BETWEEN HEAVY DUTY AND LIGHT DUTY PAVEMENT
- (C) 6" CONCRETE PAVEMENT; SEE DETAIL 214 ON SHEET C800
- (C1) ROW CONCRETE APRON PAVEMENT WITH 1" LIP AT GUTTER LINE; SEE DETAILS 203 AND 204 ON SHEET C800
- (D) 4" CONCRETE SIDEWALK; SEE DETAIL 206 ON SHEET C800
- (E) COMBINED CURB & WALK; SEE DETAIL 215 ON SHEET C800
- (E1) COMBINED CURB & WALK FLUSH WITH PAVEMENT; SEE DETAIL 215 ON SHEET C800
- (F) 6" CONCRETE CURB; SEE DETAIL 209 ON SHEET C800
- (F1) 6" CONCRETE CURB AND GUTTER TO MATCH EXISTING ROW PROFILE; SEE DETAIL 205 ON SHEET C800
- (G) CHAIN LINK FENCING AND GATES - REFER TO DETAIL 224 ON C801
- (H) 4" WIDE MARKING (COLOR=WHITE)
- (I) ADA ACCESSIBLE RAMP; SEE DETAILS 219 AND 221 ON SHEET C801
- (J) ADA PARKING SPACES; SEE DETAILS ON SHEET C801
- (K) CONCRETE PARKING STOP; SEE DETAIL 211 ON SHEET C800
- (L) 3 - FLAGPOLES - 1 - 35' TALL AND 2 - 30' TALL - FOR BASE; SEE DETAIL 223 ON SHEET C801
- (M) 2' WIDE STOP BAR AND STOP SIGN
- (N) ELECTRICAL TRANSFORMER PAD PER A.E.S. STANDARDS
- (O) FUTURE PAVILION
- (P) CONCRETE DOOR STOOP - COORDINATE WITH ARCHITECTURAL DRAWINGS
- (Q) CONCRETE CURB TAPER; SEE DETAIL 217 ON SHEET C800
- (R) OUTDOOR BIKE STORAGE SHELTER, 16 BIKE CAPACITY, 120"L X 95 1/2"W BY GLOBAL INDUSTRIAL #B9708408; SHELTER SHALL BE FIELD PAINTED - COORDINATE PAINT SPECIFICATIONS AND PAINT COLOR WITH ARCHITECT
- (S) STORMWATER MANAGEMENT BASIN
- (T) GROUND SIGN; COORDINATE WITH ARCHITECT
- (U) 5' WIDE CROSSWALK - THERMOPLASTIC
- (V) PAINTED TRAFFIC CONTROL LANE LINES AND DIRECTIONAL ARROWS
- (W) NOT USED
- (X) PIPE BOLLARD; SEE DETAIL 213 ON SHEET C800
- (Y) NOT USED
- (Z) CONCRETE TURNOUT; SEE DETAIL 216 ON SHEET C800



#### REVISION RECORD

NO.	DATE	DESCRIPTION
1	02/11/2022	ASSEMBLY #3

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

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**LIUNA LOCAL 120**  
**5430 LAFAYETTE ROAD**  
**INDIANAPOLIS, INDIANA 46254**

#### PERMIT SET

#### SITE LAYOUT PLAN - EAST

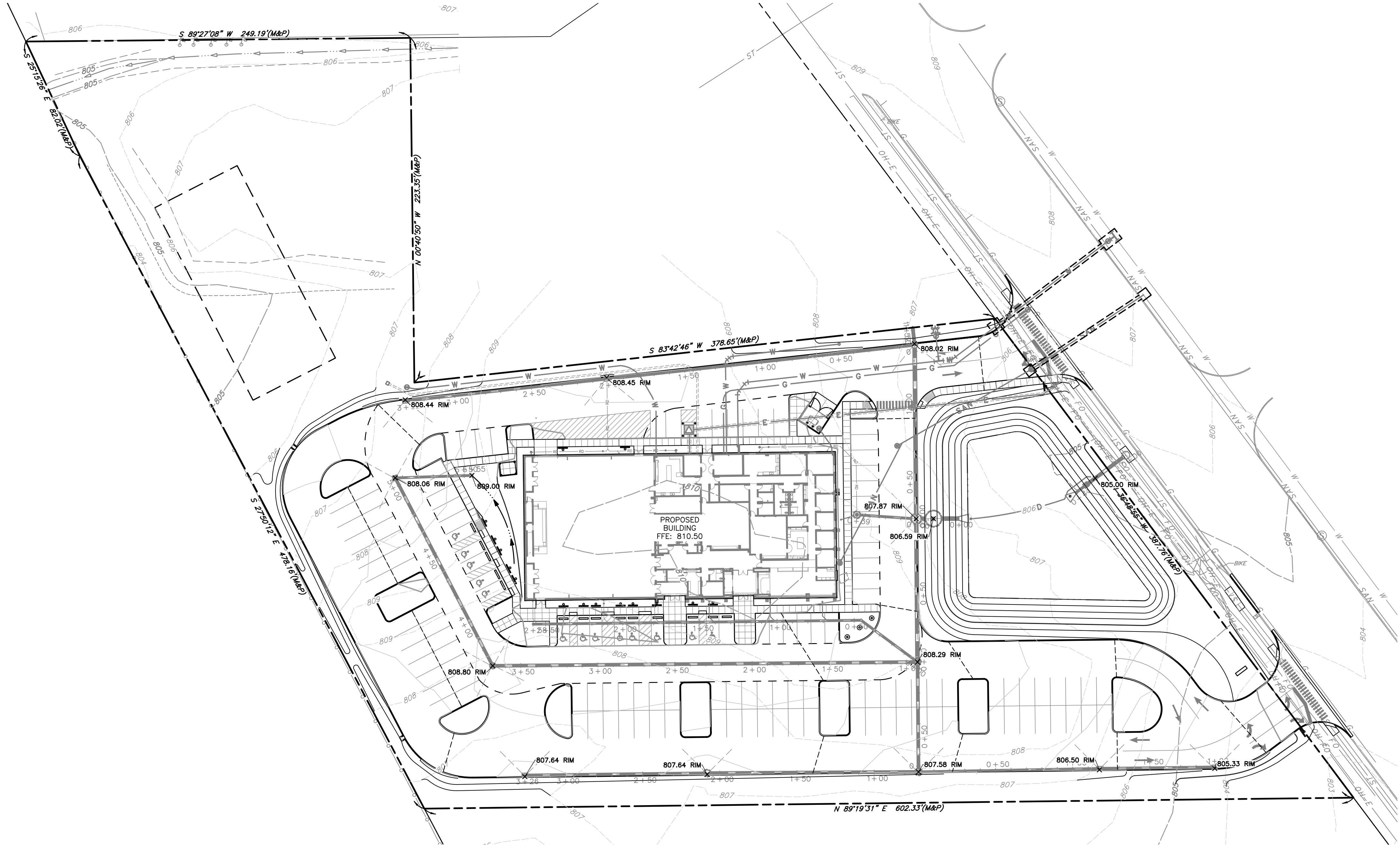
DRAWING NO.:

**C202**

SHEET 7 OF 7

DATE:	DECEMBER 21, 2021	DRAWN BY:	JCB
DWG SCALE:	1" = 20'	CHECKED BY:	DRAFT
PROJECT NO.:	310-295	APPROVED BY:	DRAFT





- GRADING GENERAL NOTES:**
- CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
  - EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
  - CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
  - PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6\"/>
  - ALL SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
  - ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
  - ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
  - DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
  - CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
  - STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
  - REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

- GRADING LEGEND:**
- 800 PROPOSED INDEX CONTOUR
  - 798 PROPOSED INTERMEDIATE CONTOUR
  - PROPOSED DRAINAGE SWALE
  - PROPOSED GRADE BREAK
  - PROPOSED STORM SEWER LINE
  - PROPOSED UNDERDRAIN
  - 766.90 PROPOSED SPOT ELEVATION
  - 788.50 PROPOSED CURB SPOT ELEVATION; TOP OF CURB
  - 788.00 ON TOP, GUTTER ELEVATION ON BOTTOM
- ABBREVIATIONS:**
- TC = TOP OF CURB
  - BC = BOTTOM OF CURB
  - TS = TOP OF STEPS
  - BS = BOTTOM OF STEPS
  - ME = MATCH EXISTING

- BENCHMARKS:**
- UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10\"/>
- TBM#1: CUT \"X\" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD. APPROXIMATELY 115\"/>
- TBM#2: CUT SQUARE ON THE BACK OF A CURB LOCATED ON THE WEST SIDE OF LAFAYETTE RD APPROXIMATELY 125\"/>
- TBM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF A FLAGPOLE BASE, LOCATED ON THE NORTH END OF THE SITE.

**UTILITY NOTE:**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2103244667 AND 2103244762 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

**REFERENCE**

- TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

**FOR BIDDING PURPOSES ONLY**



**REVISION RECORD**

NO.	DATE	DESCRIPTION

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

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**INDIANAPOLIS, INDIANA 46254**

**PERMIT SET**

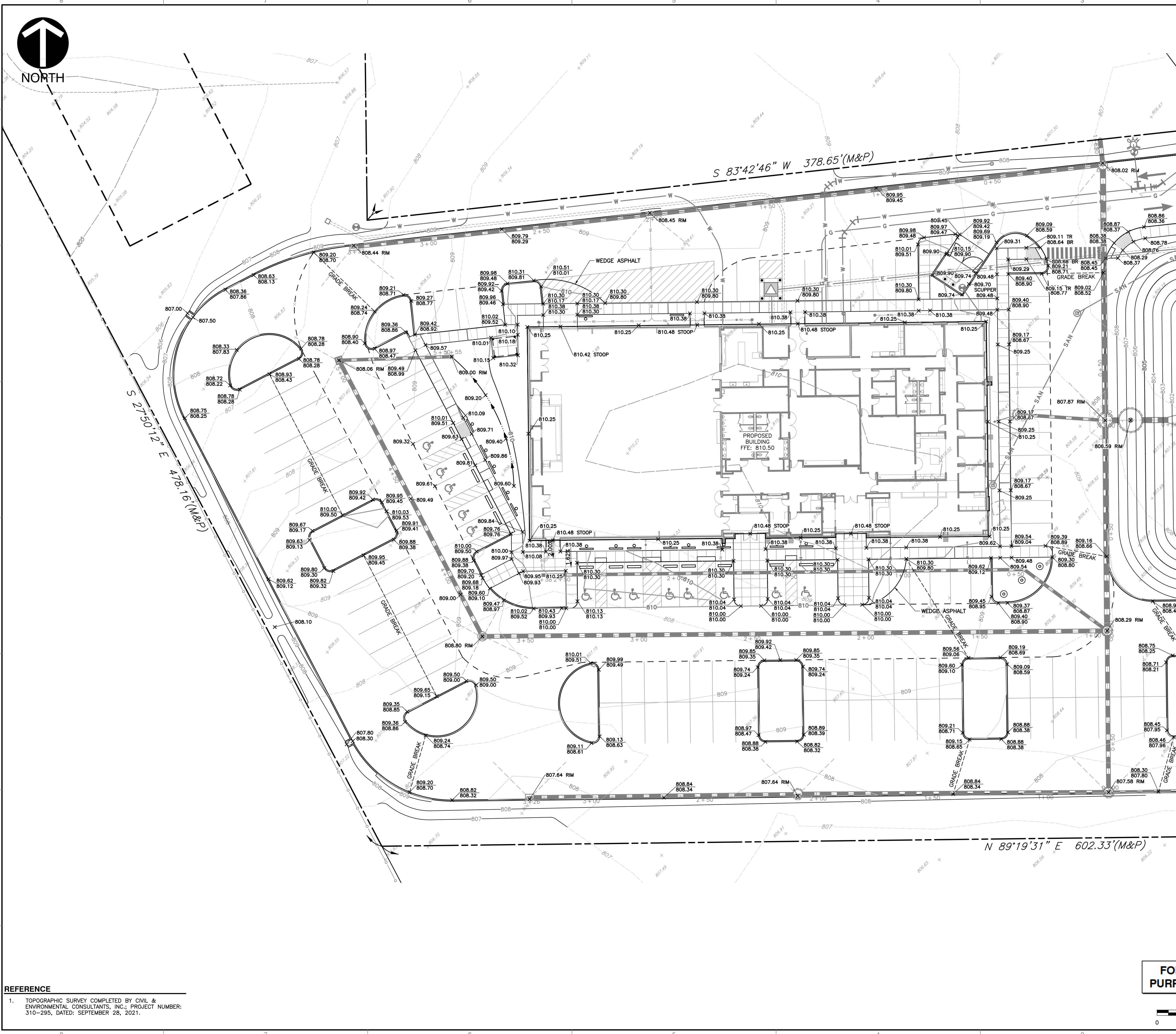
DATE:	DECEMBER 21, 2021	DRAWN BY:	JCB
DWG SCALE:	1\"/>		
PROJECT NO:	310-295	CHECKED BY:	DRAFT
APPROVED BY:		APPROVED BY:	DRAFT

DRAWING NO. **C300**

SHEET 8 OF 8



A:\310-295\310-295.dwg (DWG) Construction Date: 1/12/2020 12:20:2021 - 12/20/2021 3:31 PM



REFERENCE

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

- GRADING GENERAL NOTES:**
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  - 798 PROPOSED INTERMEDIATE CONTOUR
  - PROPOSED DRAINAGE SWALE
  - PROPOSED GRADE BREAK
  - PROPOSED STORM SEWER LINE
  - PROPOSED UNDERDRAIN
  - 766.90 PROPOSED SPOT ELEVATION
  - 788.50 PROPOSED CURB SPOT ELEVATION; TOP OF CURB
  - 798.00 PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM
- ABBREVIATIONS:**
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  - BC = BOTTOM OF CURB
  - TS = TOP OF STEPS
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  - ME = MATCH EXISTING

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- TBM#1: CUT "X" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD. APPROXIMATELY 115 NORTH OF THE SOUTHWEST CORNER OF THE SITE. ELEV. = 805.42
- TBM#2: CUT SQUARE ON THE BACK OF A CURB LOCATED ON THE WEST SIDE OF LAFAYETTE RD APPROXIMATELY 125 NORTH OF THE NORTHEAST CORNER OF THE SITE. ELEV. = 808.94
- TBM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF A FLAGPOLE BASE, LOCATED ON THE NORTH END OF THE SITE. ELEV. = 805.93

- UTILITY NOTE:**
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FOR BIDDING  
PURPOSES ONLY

SCALE IN FEET

0 20' 40'



REVISION RECORD	
NO.	DATE

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

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**LIUNA LOCAL 120**  
**5430 LAFAYETTE ROAD**  
**INDIANAPOLIS, INDIANA 46254**

**PERMIT SET**

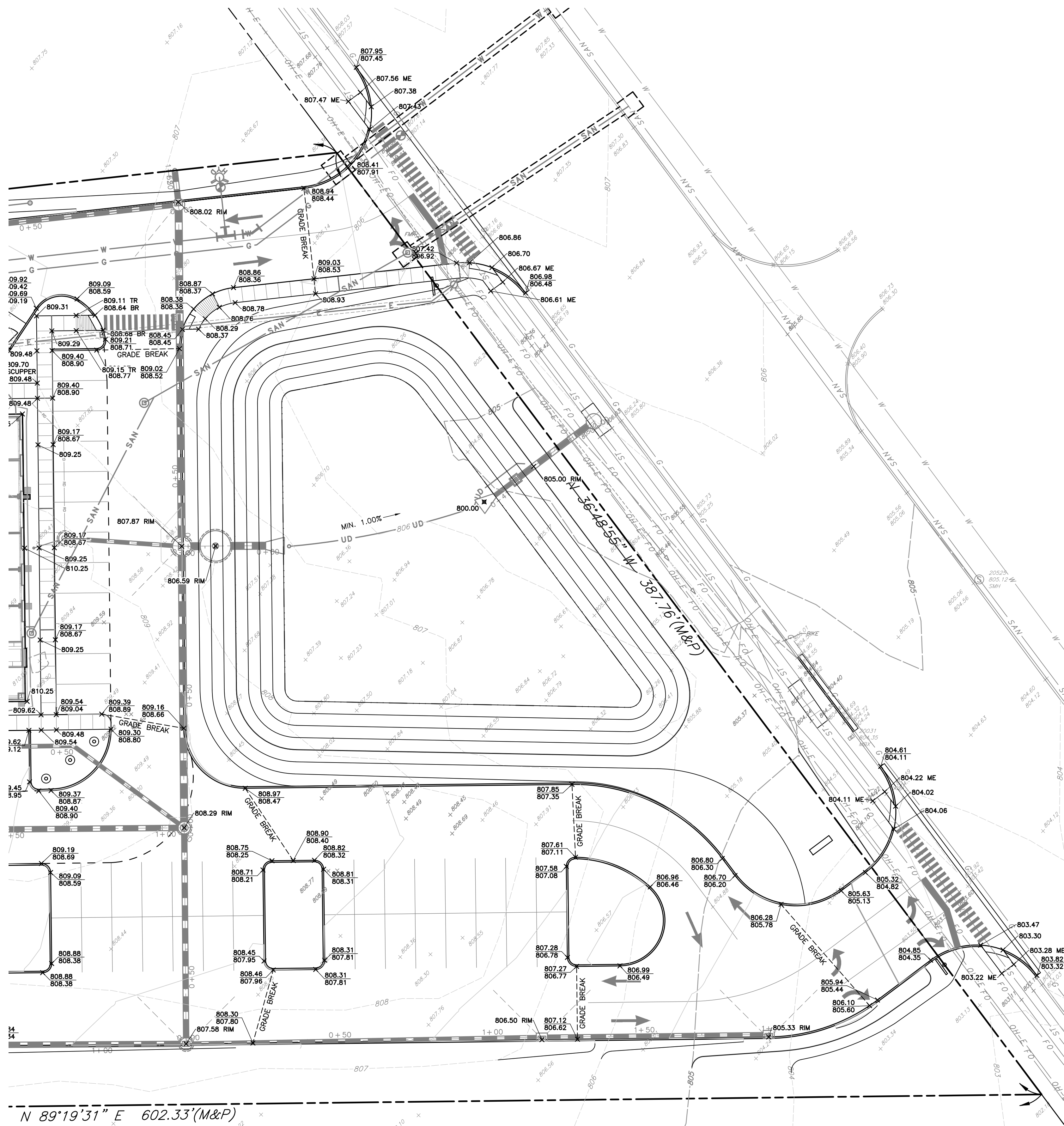
**GRADING PLAN - WEST**

DATE:	DECEMBER 21, 2021	DRAWN BY:	JCB
DWG SCALE: <td>1" = 20'</td> <td>CHECKED BY:<td>DRAFT</td></td>	1" = 20'	CHECKED BY: <td>DRAFT</td>	DRAFT
PROJECT NO: <td>310-295</td> <td>APPROVED BY:<td>DRAFT</td></td>	310-295	APPROVED BY: <td>DRAFT</td>	DRAFT

DRAWING NO: **C301**

SHEET 9 OF 9





- GRADING GENERAL NOTES:**
1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
  2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
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  - 798.50 PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM
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**ABBREVIATIONS:**  
TC = TOP OF CURB  
BC = BOTTOM OF CURB  
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**UTILITY NOTE:**

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- REFERENCE**
1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

**FOR BIDDING PURPOSES ONLY**

**SCALE IN FEET**  
0 20' 40'



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INDIANAPOLIS, INDIANA 46024  
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**INDIANAPOLIS, INDIANA 46254**

**PERMIT SET**

**GRADING PLAN - EAST**

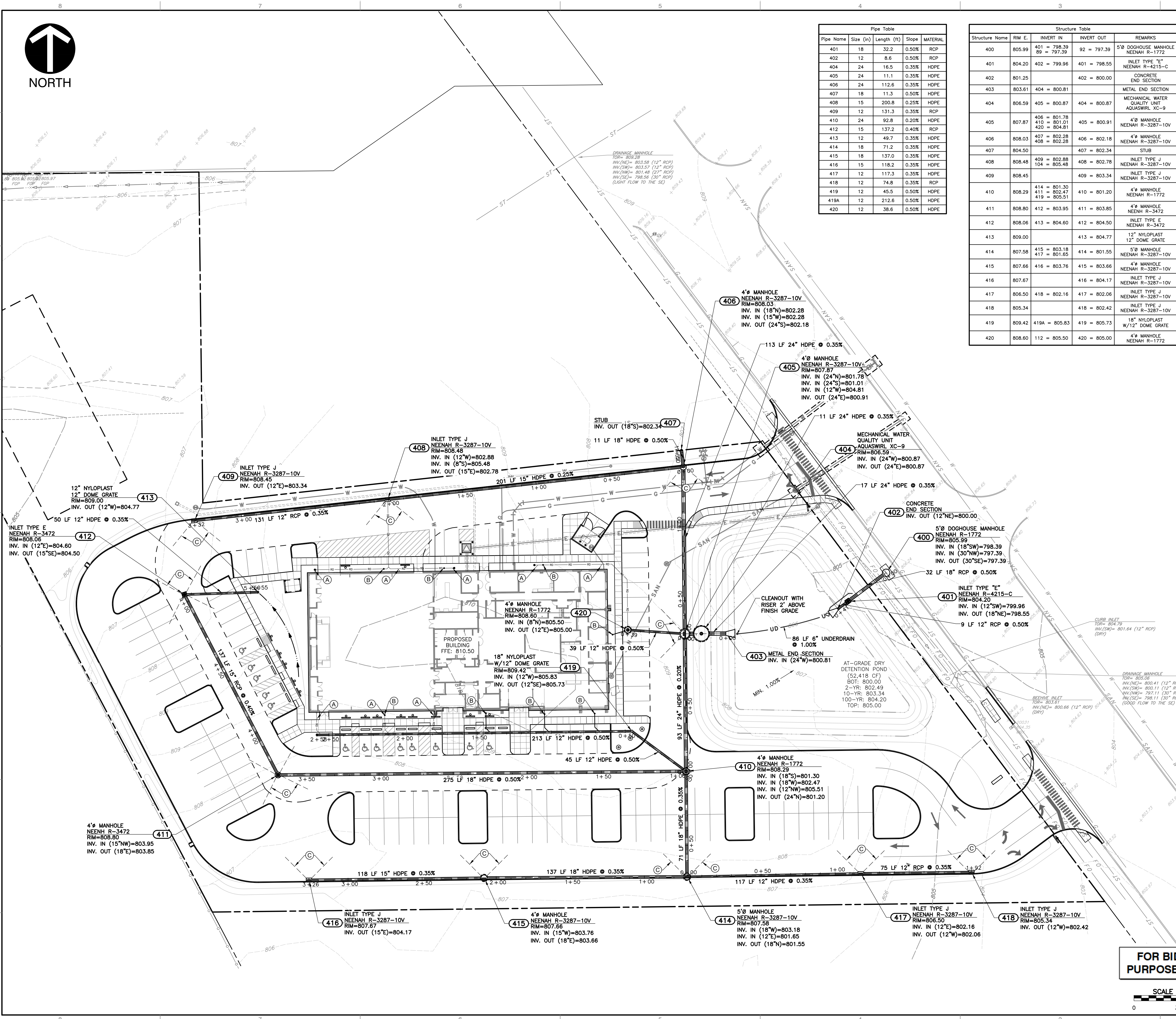
DRAWING NO. **C302**

SHEET 10 OF 10

DATE: DECEMBER 21, 2021 | DRAWN BY: JCB  
DWG SCALE: 1" = 20' | CHECKED BY: DRAFT  
PROJECT NO: 310-295  
APPROVED BY: DRAFT



A:\10-2001\370-2951-C400\DWG\DWG Construction\Draw\100925-C400.dwg (C400) LS(12/20/2021) - allow - LF 12/20/2021 1:49 PM



Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL
401	18	32.2	0.50%	RCP
402	12	8.6	0.50%	RCP
404	24	16.5	0.35%	HDPE
405	24	11.1	0.35%	HDPE
406	24	112.6	0.35%	HDPE
407	18	11.3	0.50%	HDPE
408	15	200.8	0.25%	HDPE
409	12	131.3	0.35%	RCP
410	24	92.8	0.20%	HDPE
412	15	137.2	0.40%	RCP
413	12	49.7	0.35%	HDPE
414	18	71.2	0.35%	HDPE
415	18	137.0	0.35%	HDPE
416	15	118.2	0.35%	HDPE
417	12	117.3	0.35%	HDPE
418	12	74.8	0.35%	RCP
419	12	45.5	0.50%	HDPE
419A	12	212.6	0.50%	HDPE
420	12	38.6	0.50%	HDPE

Structure Table				
Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
400	805.99	401 = 798.39 89 = 797.39	92 = 797.39	5'0" DOGHOUSE MANHOLE NEENAH R-1772
401	804.20	402 = 799.96	401 = 798.55	INLET TYPE "E" NEENAH R-4215-C
402	801.25		402 = 800.00	CONCRETE END SECTION
403	803.61	404 = 800.81		METAL END SECTION
404	806.59	405 = 800.87	404 = 800.87	MECHANICAL WATER QUALITY UNIT AQUASWIRL XC-9
405	807.87	406 = 801.78 410 = 801.01 420 = 804.81	405 = 800.91	4"0" MANHOLE NEENAH R-3287-10V
406	808.03	407 = 802.28 408 = 802.28	406 = 802.18	4"0" MANHOLE NEENAH R-3287-10V
407	804.50		407 = 802.34	STUB
408	808.48	409 = 802.88 104 = 805.48	408 = 802.78	INLET TYPE J NEENAH R-3287-10V
409	808.45		409 = 803.34	INLET TYPE J NEENAH R-3287-10V
410	808.29	414 = 801.30 411 = 802.47 419 = 805.51	410 = 801.20	4"0" MANHOLE NEENAH R-1772
411	808.80	412 = 803.95	411 = 803.85	4"0" MANHOLE NEENAH R-3472
412	808.06	413 = 804.60	412 = 804.50	INLET TYPE E NEENAH R-3472
413	809.00		413 = 804.77	12" NYLOPLAST 12" DOME GRATE
414	807.58	415 = 803.18 417 = 801.85	414 = 801.55	5"0" MANHOLE NEENAH R-3287-10V
415	807.66	416 = 803.76	415 = 803.66	4"0" MANHOLE NEENAH R-3287-10V
416	807.67		416 = 804.17	INLET TYPE J NEENAH R-3287-10V
417	806.50	418 = 802.16	417 = 802.06	INLET TYPE J NEENAH R-3287-10V
418	805.34		418 = 802.42	INLET TYPE J NEENAH R-3287-10V
419	809.42	419A = 805.83	419 = 805.73	18" NYLOPLAST W/12" DOME GRATE
420	808.60	112 = 805.50	420 = 805.00	4"0" MANHOLE NEENAH R-1772

**GENERAL DRAINAGE NOTES:**

- DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
- ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
- STORM PIPE MATERIAL OPTIONS ARE AS FOLLOWS: RCP OR HDPE, AS NOTED ON PLANS.
- WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
- ALL PROPOSED DRAINAGE AND STORM SEWER APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.

**BENCHMARKS:**

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

BM#1: CUT "X" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD, APPROXIMATELY 115 NORTH OF THE SOUTHWEST CORNER OF THE SITE. ELEV. = 805.42

BM#2: CUT SQUARE ON THE BACK OF A CURB LOCATED ON THE WEST SIDE OF LAFAYETTE RD APPROXIMATELY 125 NORTH OF THE NORTHEAST CORNER OF THE SITE. ELEV. = 808.94

BM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF A FLAGPOLE BASE, LOCATED ON THE NORTH END OF THE SITE. ELEV. = 805.93

**UTILITY NOTE:**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2103244667 AND 2103244762 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

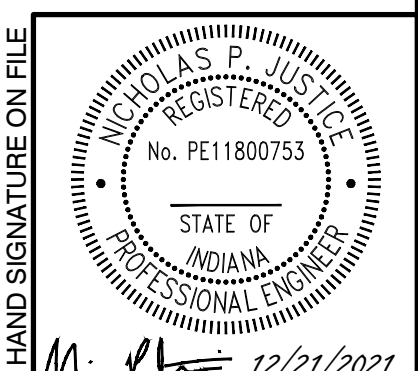
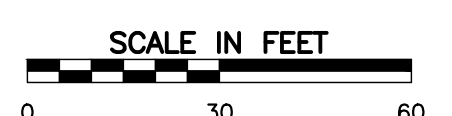
**DRAINAGE LEGEND:**

- PROPOSED STORM PIPE
- PROPOSED YARD DRAIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED LIMITS OF DETENTION POND
- PROPOSED ROOF DRAIN
- PROPOSED UNDERDRAIN

**SITE KEY NOTES**

- CONNECT DOWNSPOUT TO 6" PVC ROOF DRAIN PIPE (MIN. 1.0%). PROVIDE NEENAH DOWNSPOUT BOOT R-4925-F OR APPROVED EQUAL. COORDINATE SIZE OF DOWNSPOUT AND EXACT LOCATION WITH ARCHITECTURAL PLANS/SPECIFICATIONS. SEE DETAIL 507 ON SHEET C804.
- 6" HDPE @ 1.0% MIN. PROVIDE 6" NYLOPLAST DOME GRATE. REFER TO DETAIL 410 ON C802. NOTE: DRAIN SHALL BE LOCATED WITHIN STONE MULCH SHOWN ON DETAIL 706 ON SHEET C700.
- PAVEMENT UNDERDRAIN 20' SECTION. REFER TO DETAIL 405 ON SHEET C802.

FOR BIDDING PURPOSES ONLY



REVISION RECORD

NO.	DATE	DESCRIPTION

**ARC DESIGN, P.C.**  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

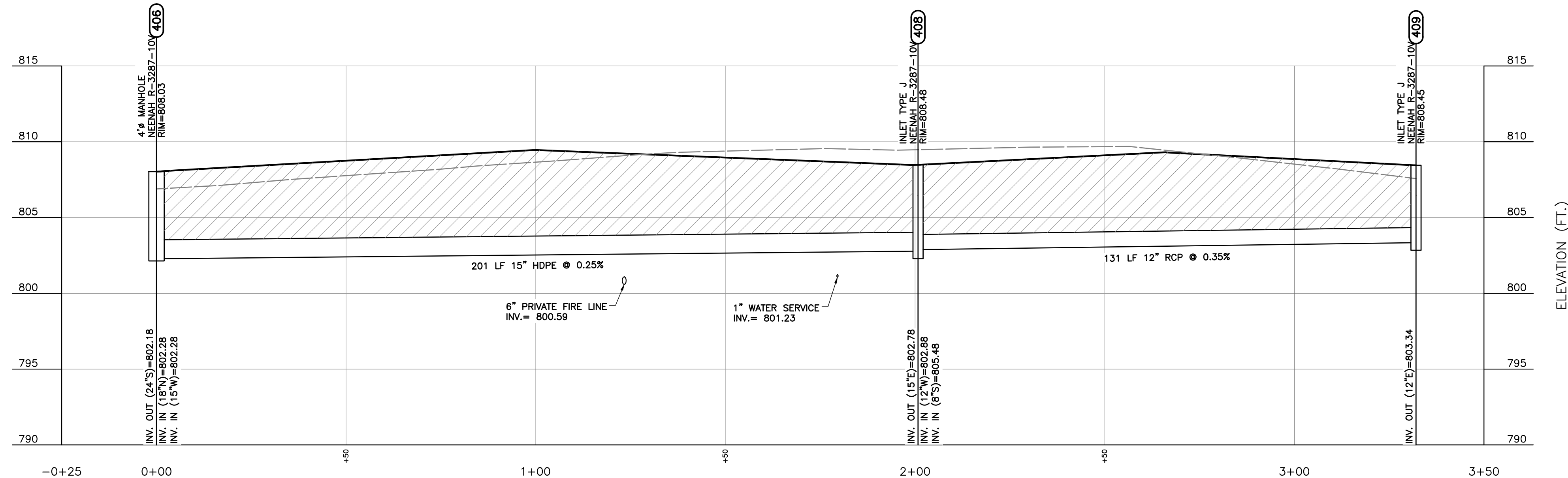
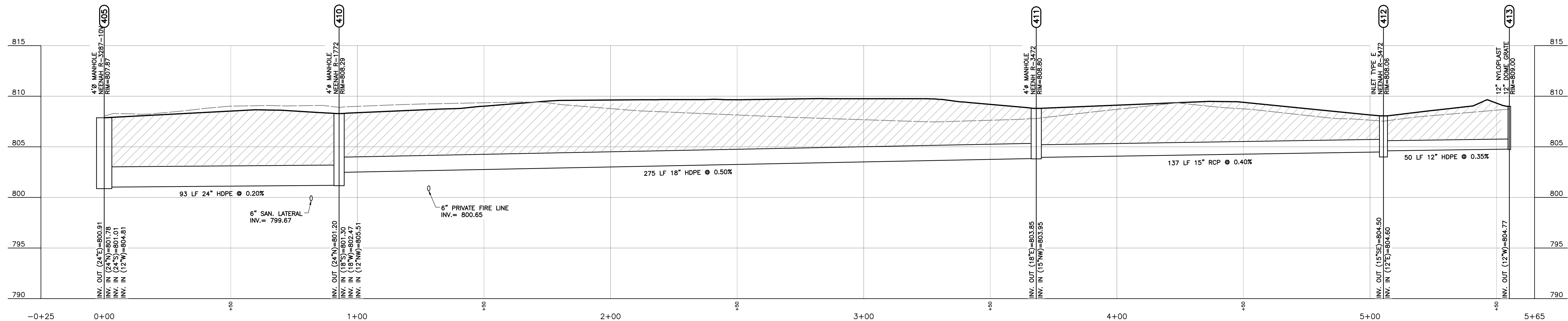
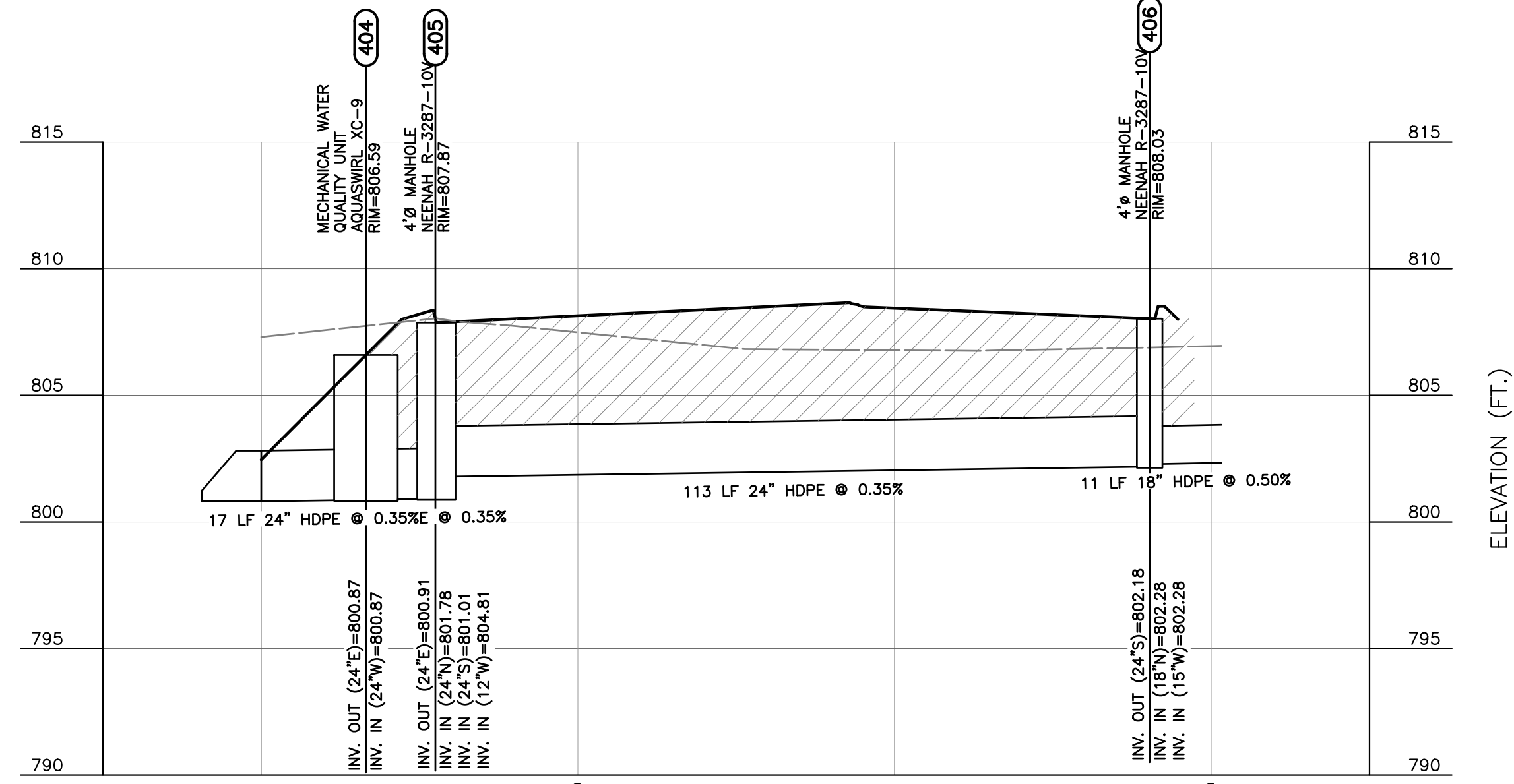
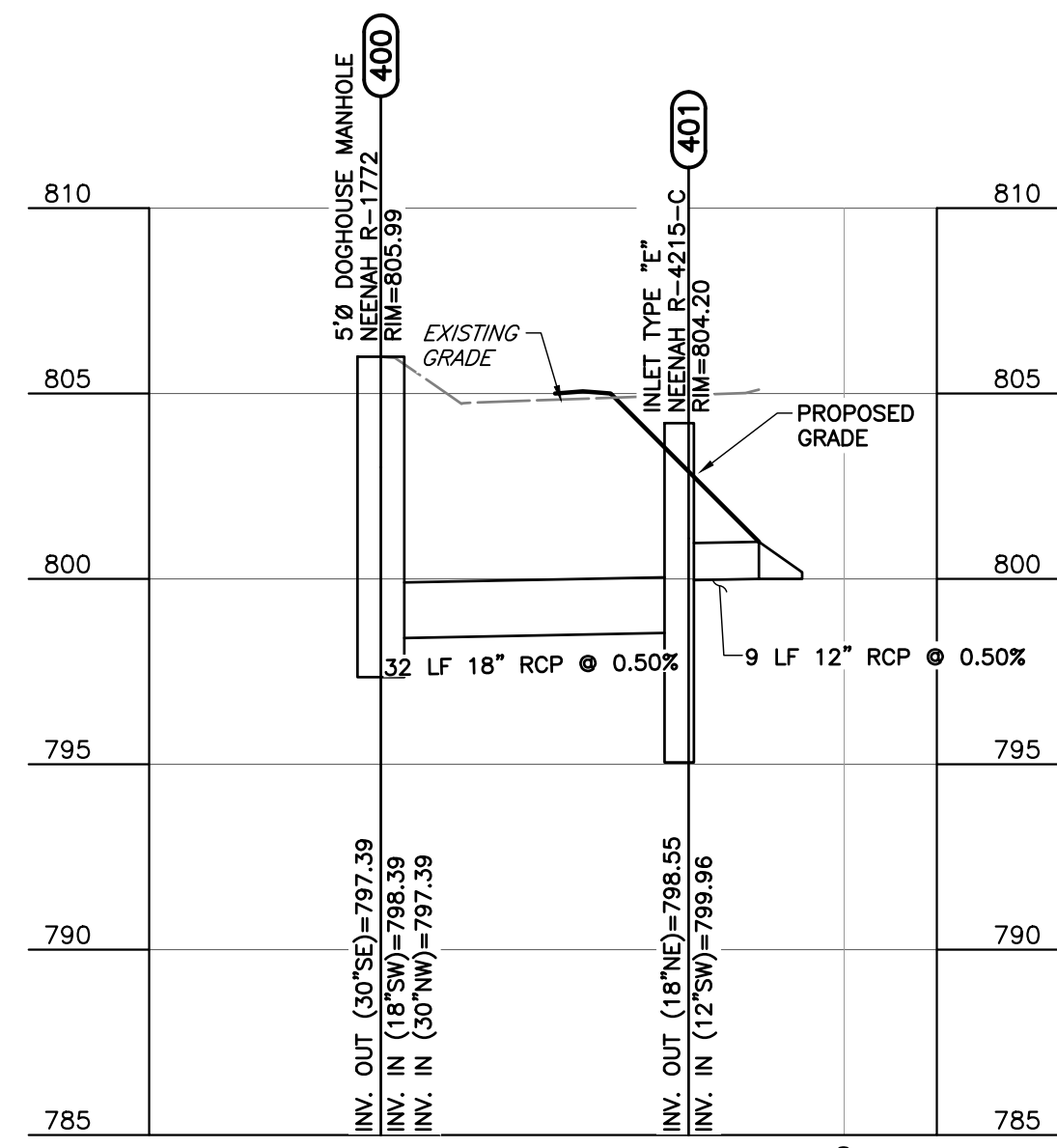
PERMIT SET

DRAINAGE PLAN	
DATE: DECEMBER 21, 2021	DRAWN BY: JCB
DWG SCALE: 1" = 30'	DRAFT: 310-295
PROJECT NO:	CHECKED BY:
APPROVED BY:	DRAFT:

DRAWING NO. **C400**

SHEET 11 OF 11

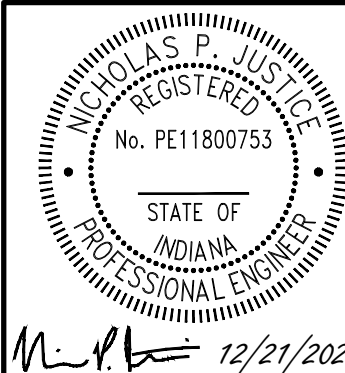




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\* HAND SIGNATURE ON FILE

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**Civil & Environmental  
Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

**arc**DESIGN  
architecture + interiors

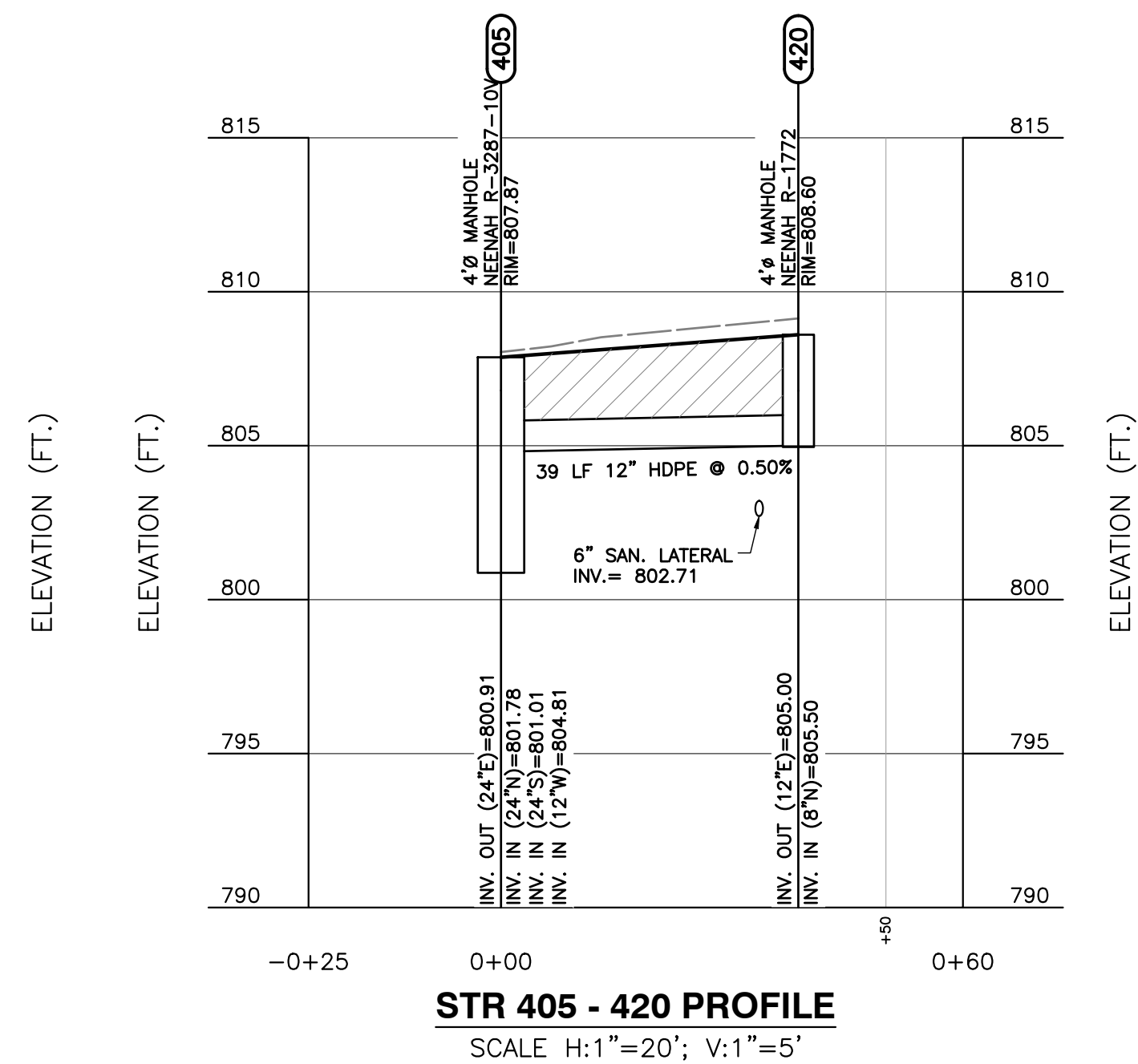
**ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254**

PERMIT SET

## STORM SEWER PROFILES

DRAWING NO.:  
**C401**  
SHEET 12 OF -





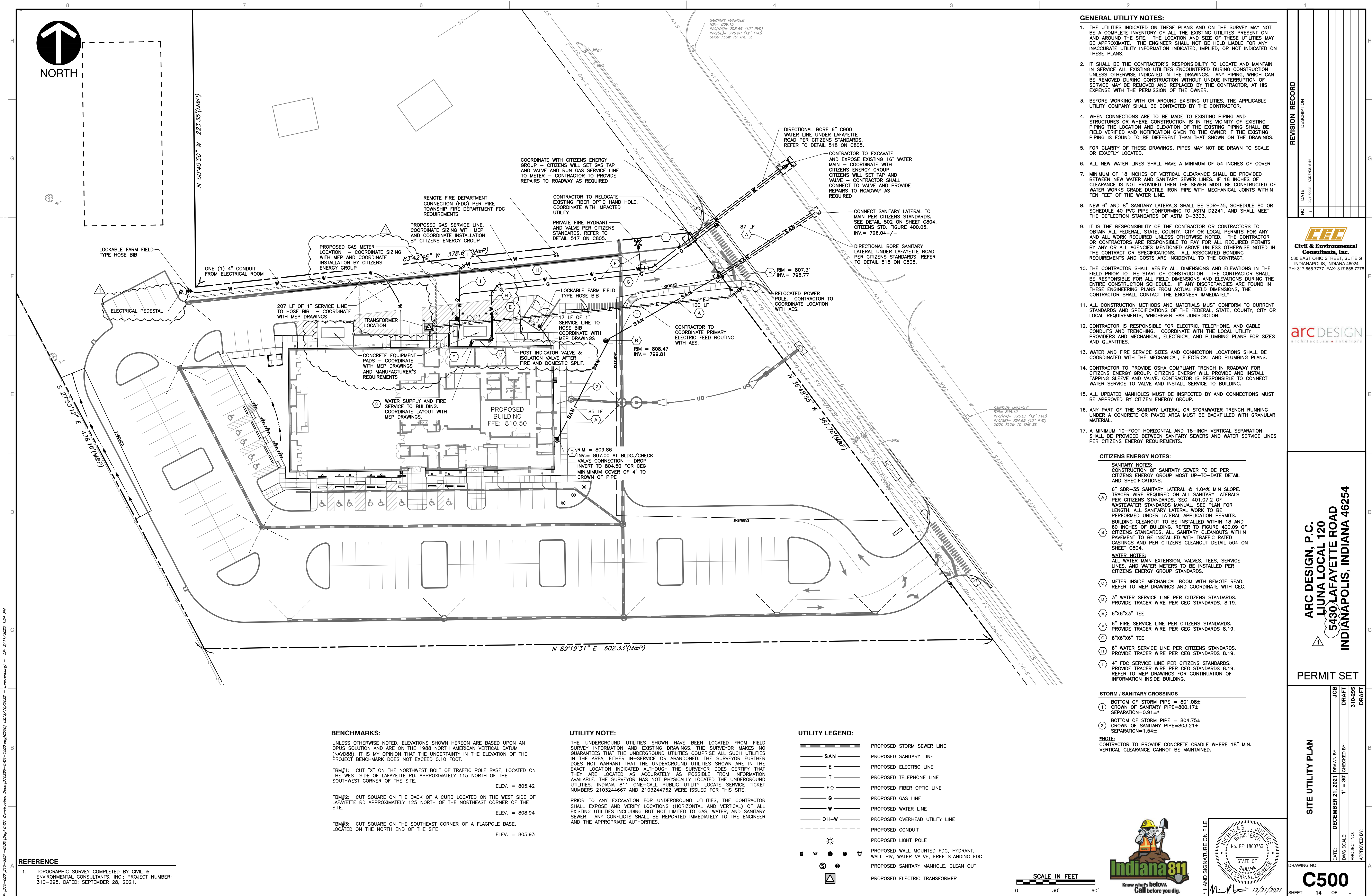
\* HAND SIGNATURE ON FILE

NICHOLAS P. JUSTICE  
REGISTERED  
No. PE11800753  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

*N. P. Justice* 12/21/2021

[illegible]





- GENERAL UTILITY NOTES:**
- THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
  - BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
  - WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
  - FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
  - ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
  - MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN TEN FEET OF THE WATER LINE.
  - NEW 6" AND 8" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL NECESSARY STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BIDDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
  - ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
  - CONTRACTOR IS RESPONSIBLE FOR ELECTRIC, TELEPHONE, AND CABLE CONDUITS AND TRENCHING. COORDINATE WITH THE LOCAL UTILITY PROVIDERS AND MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES AND QUANTITIES.
  - WATER AND FIRE SERVICE SIZES AND CONNECTION LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
  - CONTRACTOR TO PROVIDE OSHA COMPLIANT TRENCH IN ROADWAY FOR CITIZENS ENERGY GROUP. CITIZENS ENERGY WILL PROVIDE AND INSTALL TAPPING SLEEVE AND VALVE. CONTRACTOR IS RESPONSIBLE TO CONNECT WATER SERVICE TO VALVE AND INSTALL SERVICE TO BUILDING.
  - ALL UPDATED MANHOLES MUST BE INSPECTED BY AND CONNECTIONS MUST BE APPROVED BY CITIZEN ENERGY GROUP.
  - ANY PART OF THE SANITARY LATERAL OR STORMWATER TRENCH RUNNING UNDER A CONCRETE OR PAVED AREA MUST BE BACKFILLED WITH GRANULAR MATERIAL.
  - A MINIMUM 10'-FOOT HORIZONTAL AND 18"-INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN SANITARY SEWERS AND WATER SERVICE LINES PER CITIZENS ENERGY REQUIREMENTS.

**CITIZENS ENERGY NOTES:**

- SANITARY NOTES:**  
CONSTRUCTION OF SANITARY SEWER TO BE PER CITIZENS ENERGY GROUP MOST UP-TO-DATE DETAIL AND SPECIFICATIONS.
- 6" SDR-35 SANITARY LATERAL @ 1.04% MIN SLOPE. TRACER WIRE REQUIRED ON ALL SANITARY LATERALS PER CITIZENS STANDARDS, SEC. 401.07.2 OF WASTEWATER STANDARDS MANUAL. SEE PLAN FOR LENGTH. ALL SANITARY LATERAL WORK TO BE PERFORMED UNDER LATERAL APPLICATION PERMITS. BUILDING CLEANOUT TO BE INSTALLED WITHIN 18" AND 60" INCHES OF BUILDING. REFER TO FIGURE 400.09 OF CITIZENS STANDARDS. ALL SANITARY CLEANOUTS WITHIN PAVEMENT TO BE INSTALLED WITH TRAFFIC RATED CASTINGS AND PER CITIZENS CLEANOUT DETAIL 504 ON SHEET C804.
  - WATER NOTES:**  
ALL WATER MAIN EXTENSION, VALVES, TEES, SERVICE LINES, AND WATER METERS TO BE INSTALLED PER CITIZENS ENERGY GROUP STANDARDS.
  - METER INSIDE MECHANICAL ROOM WITH REMOTE READ. REFER TO MEP DRAWINGS AND COORDINATE WITH CEG.
  - 3" WATER SERVICE LINE PER CITIZENS STANDARDS. PROVIDE TRACER WIRE PER CEG STANDARDS. 8.19.
  - 6"x6"x3" TEE
  - 6" FIRE SERVICE LINE PER CITIZENS STANDARDS. PROVIDE TRACER WIRE PER CEG STANDARDS 8.19.
  - 6"x6"x6" TEE
  - 6" WATER SERVICE LINE PER CITIZENS STANDARDS. PROVIDE TRACER WIRE PER CEG STANDARDS 8.19.
  - 4" FDC SERVICE LINE PER CITIZENS STANDARDS. PROVIDE TRACER WIRE PER CEG STANDARDS 8.19. REFER TO MEP DRAWINGS FOR CONTINUATION OF INFORMATION INSIDE BUILDING.

**STORM / SANITARY CROSSINGS**

- 1 BOTTOM OF STORM PIPE = 801.08±  
CROWN OF SANITARY PIPE=800.17±  
SEPARATION=0.91±\*
- 2 BOTTOM OF STORM PIPE = 804.75±  
CROWN OF SANITARY PIPE=803.21±  
SEPARATION=1.54±

\*NOTE:  
CONTRACTOR TO PROVIDE CONCRETE CRADLE WHERE 18" MIN. VERTICAL CLEARANCE CANNOT BE MAINTAINED.



- REFERENCE**
- TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

**BENCHMARKS:**

- UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.
- TBM#1: CUT "X" ON THE NORTHWEST BOLT OF TRAFFIC POLE BASE, LOCATED ON THE WEST SIDE OF LAFAYETTE RD. APPROXIMATELY 115 NORTH OF THE SOUTHWEST CORNER OF THE SITE. ELEV. = 805.42
- TBM#2: CUT SQUARE ON THE BACK OF A CURB LOCATED ON THE WEST SIDE OF LAFAYETTE RD APPROXIMATELY 125 NORTH OF THE NORTHEAST CORNER OF THE SITE. ELEV. = 808.94
- TBM#3: CUT SQUARE ON THE SOUTHEAST CORNER OF A FLAGPOLE BASE, LOCATED ON THE NORTH END OF THE SITE. ELEV. = 805.93

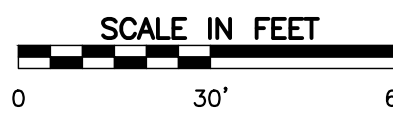
**UTILITY NOTE:**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2103244667 AND 2103244762 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

**UTILITY LEGEND:**

- PROPOSED STORM SEWER LINE
- PROPOSED SANITARY LINE
- PROPOSED ELECTRIC LINE
- PROPOSED TELEPHONE LINE
- PROPOSED FIBER OPTIC LINE
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- PROPOSED OVERHEAD UTILITY LINE
- PROPOSED CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED FDC, HYDRANT, WALL PIV, WATER VALVE, FREE STANDING FDC
- PROPOSED SANITARY MANHOLE, CLEAN OUT
- PROPOSED ELECTRIC TRANSFORMER



**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	08/11/2022	ASSEMBLY #3

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

**arcDESIGN**  
ARCHITECTURE • INTERIORS

**ARC DESIGN, P.C.**  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

**PERMIT SET**

**SITE UTILITY PLAN**


DATE: DECEMBER 21, 2021	DRAWN BY: JCB
DWG SCALE: 1" = 30'	DRAFT: 310-295
PROJECT NO: 310-295	APPROVED BY:
DRAWING NO: C500	
SHEET 14 OF 14	






## 'ST'- STREET FRONTAGE PLANTING TABLE

( 1 SHADE TREE FOR EVERY 35' OF FRONTAGE)  
( 3 LARGE SHRUBS FOR EVERY 25' OF FRONTAGE)

SYMBOL	LOT FRONTAGE	TREES REQUIRED	TREES PROVIDED	SHRUBS REQUIRED	SHRUBS PROVIDED
	LAFAYETTE ROAD - 388'	11.09	12	46.56	48


## 'IN'- INTERIOR PARKING LOT PLANTING TABLE

(1 SHADE TREE FOR EVERY 180 SQ.FT. OF REQUIRED LANDSCAPE AREA)

SYMBOL	INTERIOR PARKING AREA	LANDSCAPE AREA REQUIRED	LANDSCAPE AREA PROVIDED	TREES REQUIRED	TREES PROVIDED
	65350 SQ.FT.	5882 SQ.FT.	6099 SQ.FT.	32.7	33














'BY'- BUFFER YARD PLANTING TABLE'

(1 SHADE/ EVERGREEN TREE FOR EVERY 30 LF)  
(3 LARGE SHRUBS FOR EVERY 25 LF)

SYMBOL	BUFFER YARD	TREES REQUIRED	TREES PROVIDED	SHRUBS REQUIRED	SHRUBS PROVIDED
	SOUTH-602 LF	20.1	21 NEW TREES	72.2	74

SYMBOL	DESCRIPTION	1	PLANT QUANTITY
		AG	PLANT TYPE
		IN	REQ. LOCATION
IN	REQUIRED INTERIOR LOT PLANTINGS		
ST	REQUIRED STREET TREE PLANTINGS		
BY	BUFFER YARD PLANTINGS		
AC	BUILDING ACCENT PLANTINGS		

### PLANTING SCHEDULE

LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE COND	REMARKS	HEIGHT AT MATURITY SPREAD AT MATURITY
	AR	12	Acer rubrum "Red Sunset"	Red Sunset Red Maple	2'-1/2" Cal. B & B	Deciduous Tree	40'-50' 30'-50'
	AS	12	Acer saccharum "Green Mountain"	Green Mountain Sugar Maple	2'-1/2" Cal. B & B	Deciduous Tree	50' 50'
	AN	23	Aronia melanocarpa "Inkoala Beauty"	Inkoala Beauty Chokeberry	24" No. 7 Cont.	Deciduous Shrub	3'-4' 4'-5'
	GT	10	Gleditsia triacanthos nervis "Shodasterm"	Shodasterm Honeylocust	2'-1/2" Cal. B & B	Deciduous Tree	50' 50'
	HQ	23	Hydrangea quercifolia "Pee Wee"	Pee Wee Oakleaf Hydrangea	18" No. 5 Cont.	Deciduous Shrub	2'-3' 3'-4'
	PA	11	Picea abies	Norway Spruce	5'-6" Ht. B & B	Evergreen Tree	40'-50' 25'-30'
	PG	10	Picea glauca	White Spruce	5'-6" Ht. B & B	Evergreen Tree	40'-50' 25'-30'
	QR	11	Quercus rubra	Red Oak	2'-1/2" Cal. B & B	Deciduous Tree	50' 40'
	RH	23	Rhus aromatica "Gra Low"	Gro-Low Sumac	18" No. 7 Cont.	Deciduous Shrub	3'-4' 4'-5'
	SB	27	Spiraea x bumalda "Gold Flame"	Gold Flame Spiraea	24" No. 5 Cont.	Deciduous Shrub	2'-3' 3'-4'
	TO	14	Thuja occidentalis "Smorag"	American Arbitrise	36"-42" No. 7 Cont.	Evergreen Shrub	12'-14' 3'-4'
	VD	33	Viburnum dentatum "Oristam Blue Muffin"	Blue Muffin Arrowwood Viburnum	24"-36" No. 7 Cont.	Deciduous Shrub	6'-8' 6'-8'
	VR	41	Viburnum x rhytidophyloides "Willowood"	Willowwood Viburnum	24"-36" No. 7 Cont.	Deciduous Shrub	10'-12' 10'-12'

GENERAL LANDSCAPE NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CORRECT THE ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
4. NO CHANGES TO THE SITE LANDSCAPE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS.
6. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT "AMERICAN ASSOCIATION OF NURSERY STOCK. ANSI Z60.1-2004", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
7. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND ADEQUATELY STABILIZED.
8. ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED AT GRADE LEVEL.
9. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETIC OR PLASTIC SHALL BE REMOVED AT THE TIME OF PLANTING. TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDLING OF TREE OR SHRUB.
10. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE PLANTER BAIL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
11. THE DAY PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY OWNER(S).
12. THE LANDSCAPE CONTRACTOR SHALL REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
13. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGHOUT ONE (1) CALENDAR YEAR FROM THE TIME OF SUBSTANTIAL COMPLETION OF PROJECT.
14. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL TAKE PRECEDENCE.
15. CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
16. STAKES AND OR GUY WIRES SHALL BE REMOVED AFTER ONE (1) YEAR OF INSTALLATION.
17. ALL EXISTING LANDSCAPE SHALL BE MAINTAINED DURING CONSTRUCTION. ANY EXISTING DEEMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT, WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO OWNER.
18. IF PLANT SPECIES SPECIFIED ARE FOUND TO BE UNAVAILABLE OR NOT IN SUFFICIENT QUANTITY FOR PLANTING, THE CONTRACTOR MAY SUBSTITUTE SPECIES UPON WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.

GENERAL LAWN SEEDING NOTE:

1. ALL DISTURBED AREAS NOT INDICATED AS LANDSCAPED OR IMPERVIOUS CONSTRUCTION FINISHES (PAVEMENT, BUILDING, SIDEWALKS, ETC.) SHALL BE SEEDED.
2. REFER TO C900 FOR ADDITIONAL INFORMATION AND EXTENT OF WORK.

## REVISION RECORD

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**Civil & Environmental  
Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778



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LIUNA LOCAL 120  
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## LANDSCAPE PLAN

DATE:	DECEMBER 21, 2021	DRAWN BY:	PMW
WG SCALE:	1" = 30'	CHECKED BY:	DRAFT
PROJECT NO:		310-295	

DRAWING NO.:

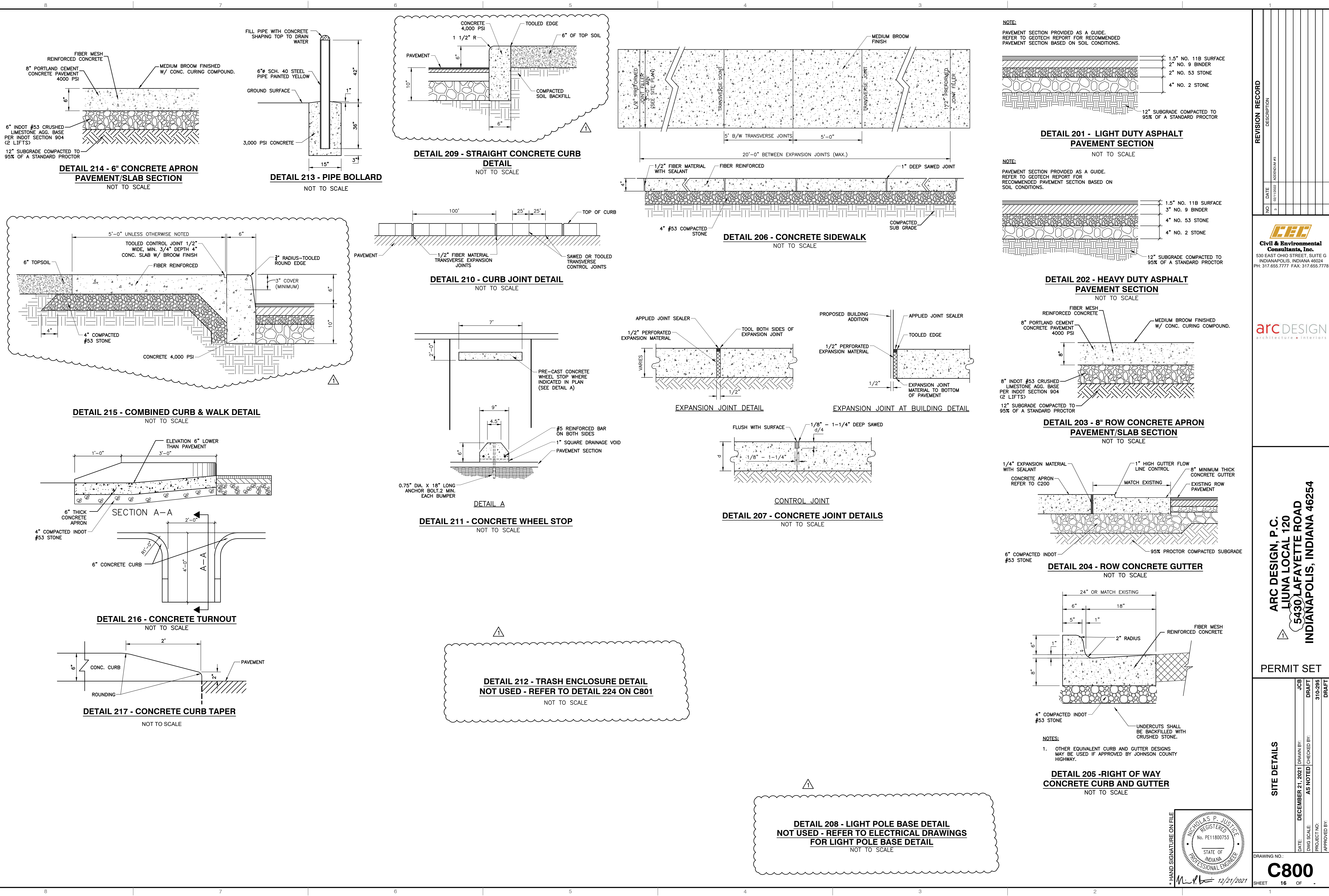
# C700

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2-310-000\310-295\ -C100\Dwa\C100\ Construction Docs\310295-C100\ -C700.dwg\C700\ LS\2/10/2022 - owarrenbura) - LP: 2/11/2022 1:27 PM



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INDIANAPOLIS, INDIANA 46024  
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**PERMIT SET**

**SITE DETAILS**

DATE: DECEMBER 21, 2021 | DRAWN BY: JCB  
DWG SCALE: DRAFT  
PROJECT NO: 310-295  
APPROVED BY: DRAFT

DRAWING NO: **C800**  
SHEET 16 OF 16

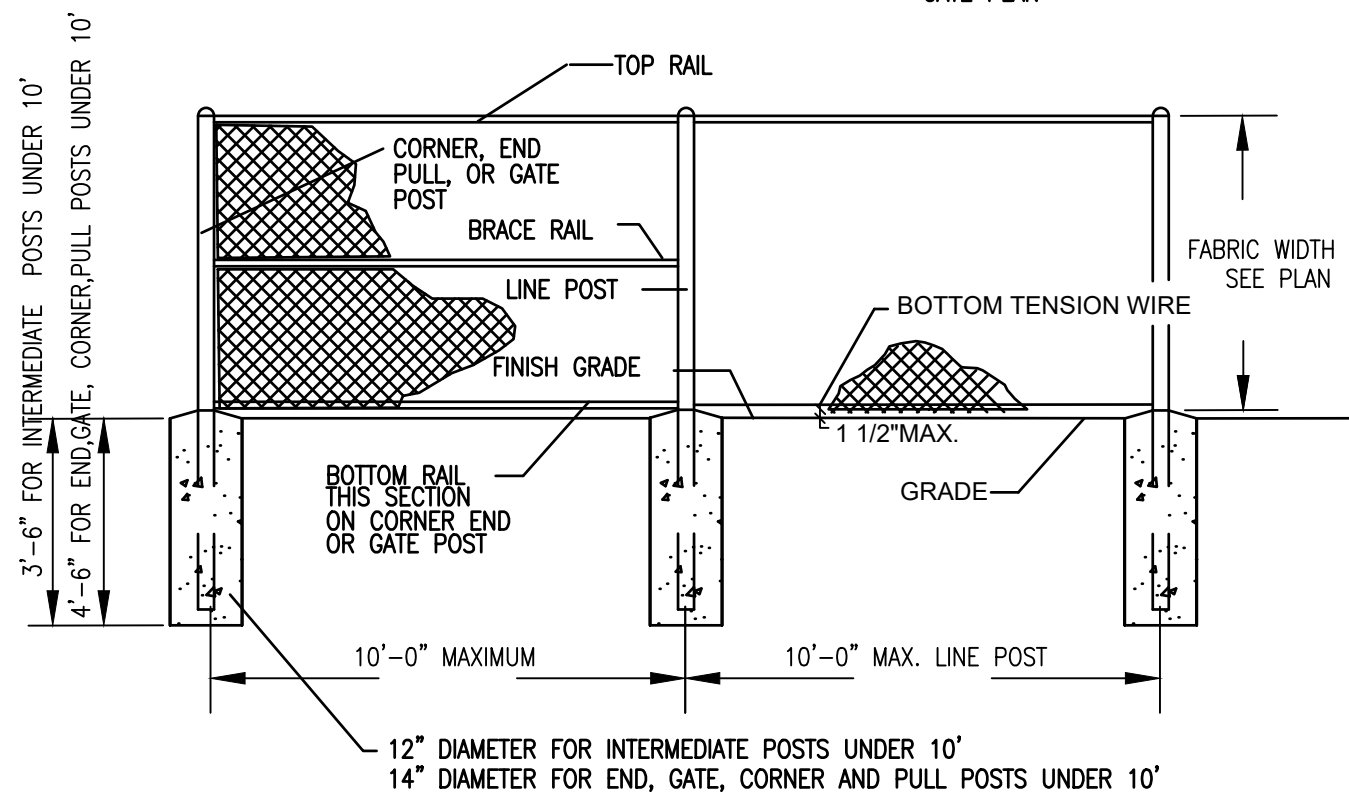
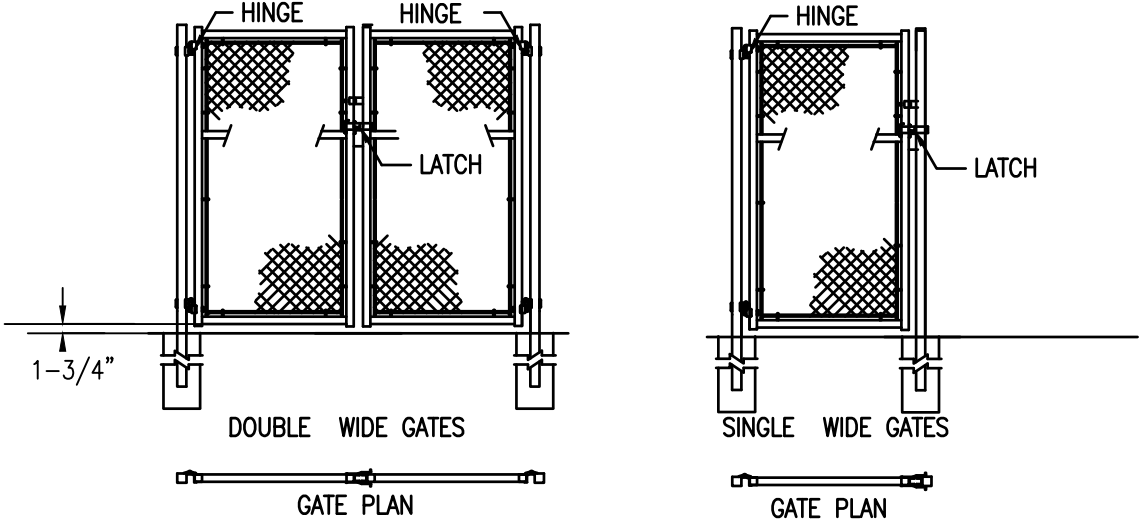
\* HAND SIGNATURE ON FILE

12/21/2021



USE	FABRIC UNDER 10' HT.
CORNER, END & PULL POST	SCHED. 40 2.875" O.D.
INTERMEDIATE POST	SCHED. 40 2.375" O.D.
TOP AND BRACE RAILS	SCHED. 40 1.86" O.D.
GATE POST FOR LEAF WIDTH: LESS THAN 6'	SCHED. 40 2.875" O.D.
GATE FRAME	SCHED. 40 1.90" O.D.

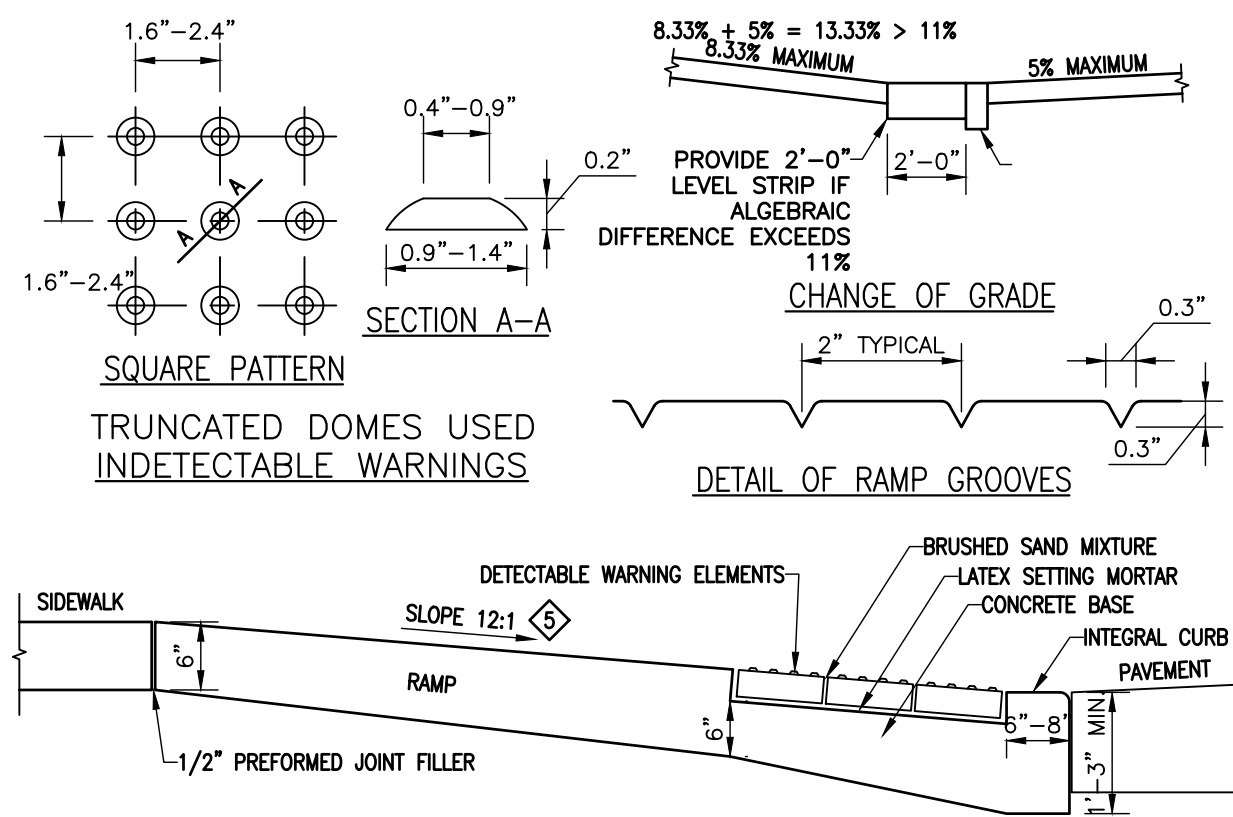
NOTE: CHAIN LINK FENCE FABRIC SHALL HAVE BLACK PVC COATING THERMALLY FUSED TO ZINC COATED WIRE. ALL POSTS, RAILS AND BRACING SHALL ALSO HAVE BLACK PVC COATING. THERMALLY FUSED TO GALVANIZED (ZINC COATED) STEEL PIPE.



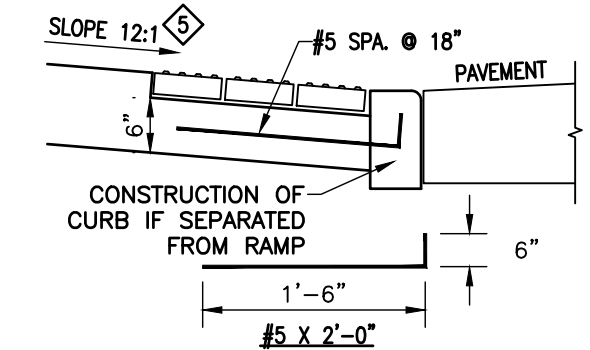
**DETAIL 224 - CHAIN LINK FENCE**  
NOT TO SCALE

**GENERAL NOTES:**

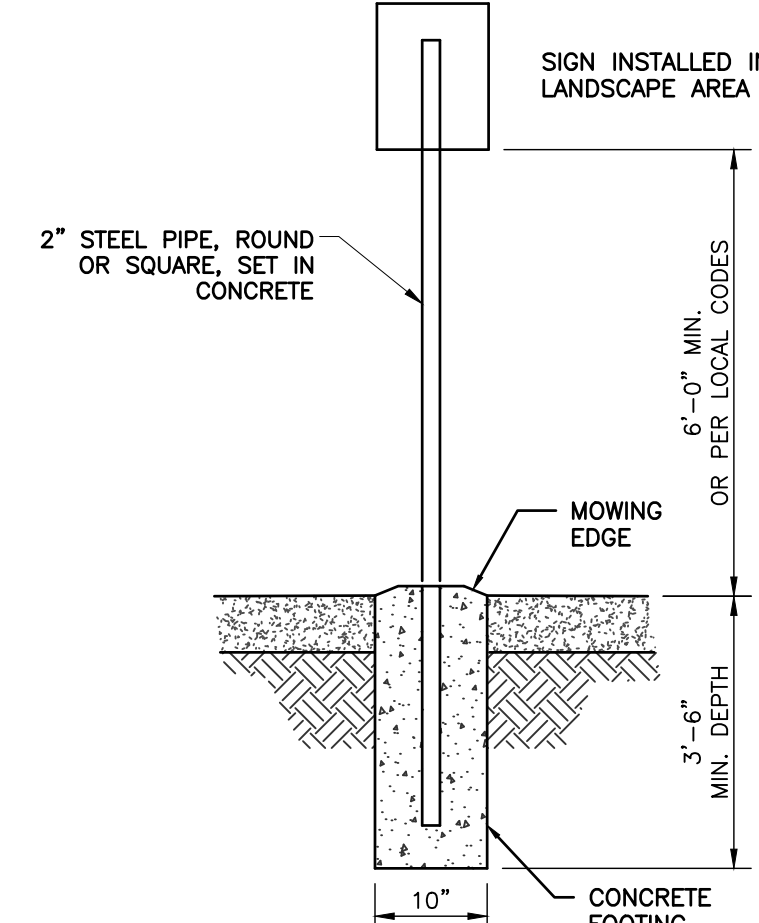
- THESE DIMENSIONS ARE BASED ON A 6 IN. CURB HEIGHT. THEY SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
- WHERE SITE INFEASIBILITY PRECLUDES CONSTRUCTION TO THE WIDTH SHOWN, SUCH WIDTH MAY BE DECREASED TO A MINIMUM OF 3'-0".
- THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF ADJACENT PAVEMENT AND GUTTER LINE.
- LANDING AREAS AT THE TOP OF CURB RAMP SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHEN SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1.
- IF SITE INFEASIBILITY PRECLUDES CONSTRUCTION TO THE WIDTH SHOWN, THE LANDING WIDTH MAY BE DECREASED TO 3'-0" MINIMUM. THE RUNNING SLOPE OF THE CURB RAMP MAY BE DECREASED TO A MAXIMUM OF 10:1 FOR A MAXIMUM 6 IN. RISE.
- DRAINAGE INLETS SHOULD BE LOCATED UPWIND FROM CURB RAMP TO PREVENT PUDDLES AT THE PATH OF TRAVEL.
- SEE STANDARD DRAWING E 604-SWCR-12 FOR IMPROVED ACCESS ON NARROW SIDEWALKS.
- ALGEBRAIC DIFFERENCE IN GRADE BETWEEN THE BASE OF CURB RAMP AND THE GUTTER SHALL BE LIMITED TO LESS THAN 11%. IF IT IS NOT PRACTICAL, A 2'-0" WIDE LEVEL STRIP SHALL BE PROVIDED. SEE DETAIL SKETCH.
- MINIMUM RECOMMENDED WIDTH OF CURB RAMP IS 4'-0".



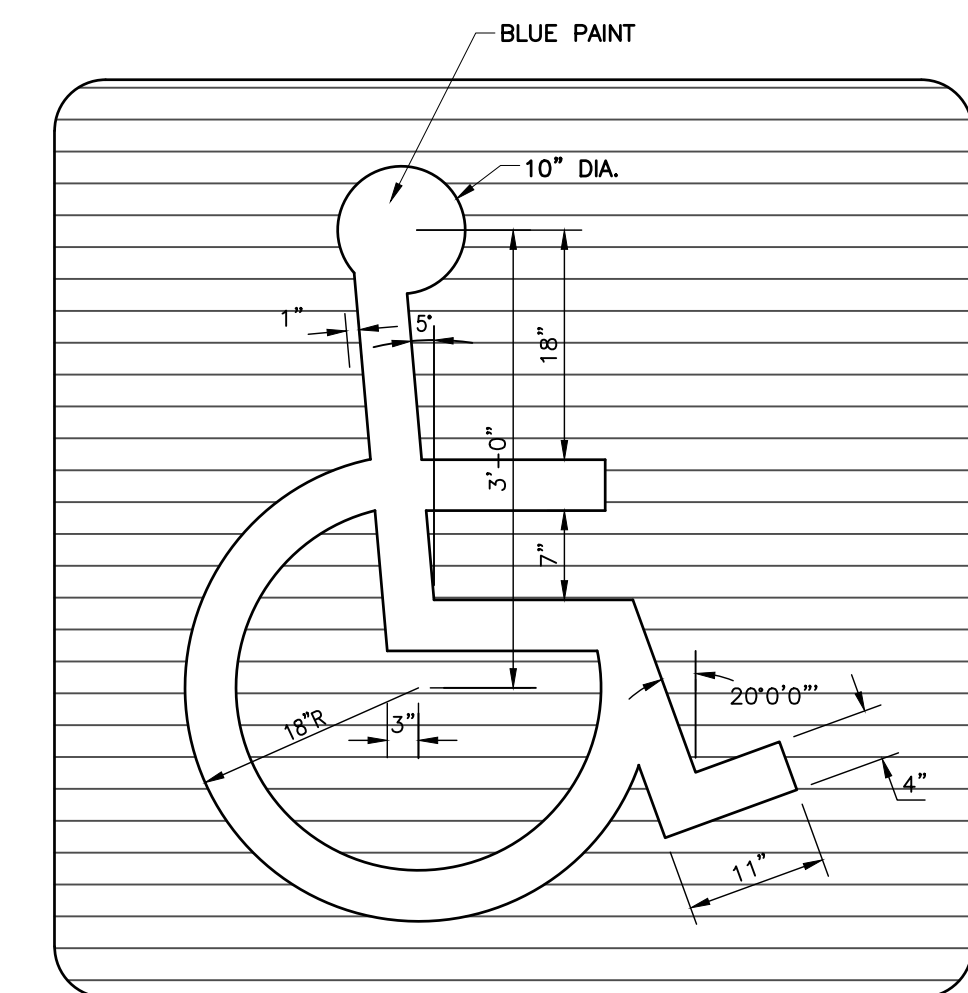
**RAMP AND BRICK SURFACE CONSTRUCTION DETAIL**



**ALTERNATE CURB CONSTRUCTION**

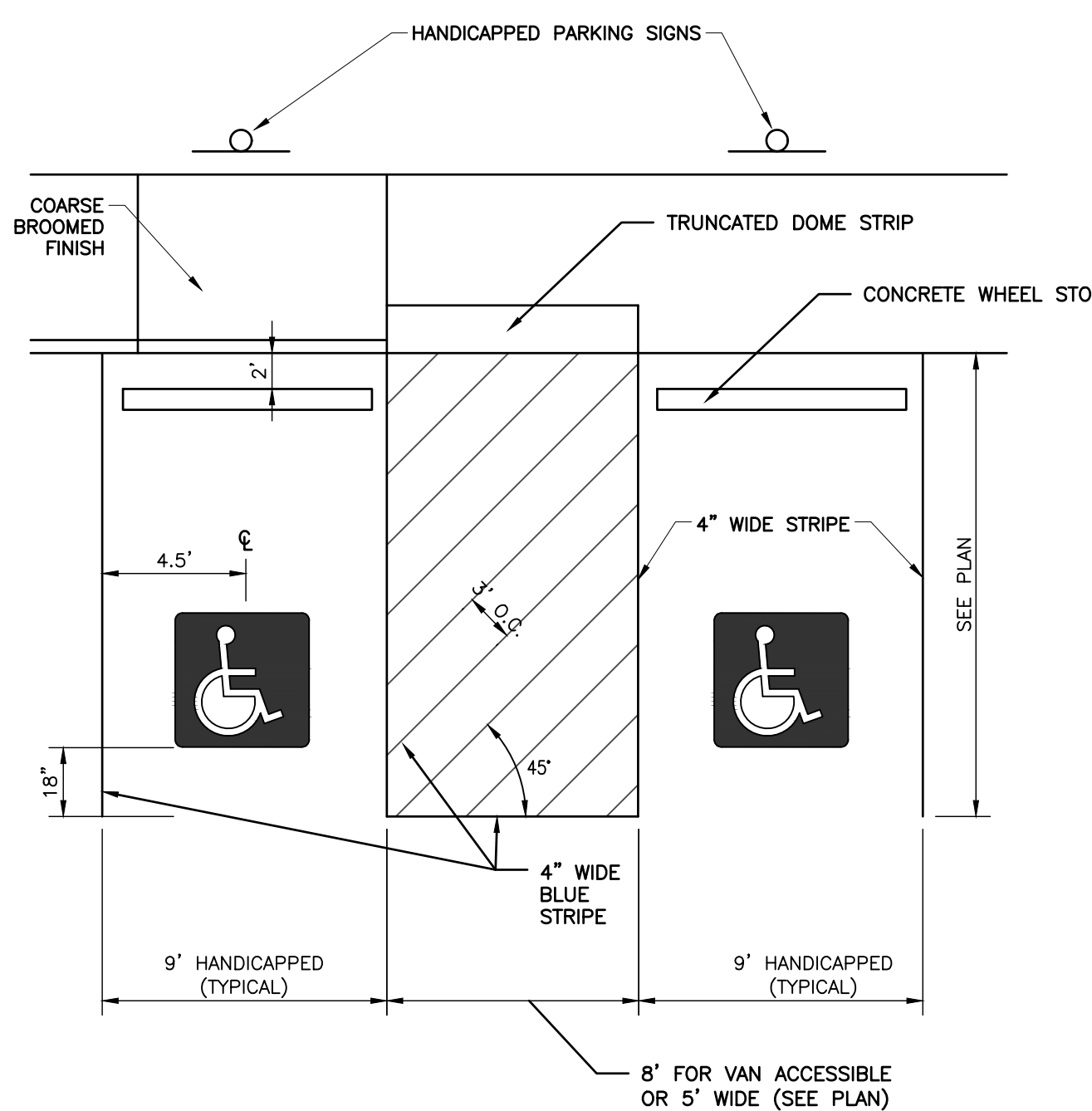


**DETAIL 218 - SIGNAGE DETAIL**  
NOT TO SCALE

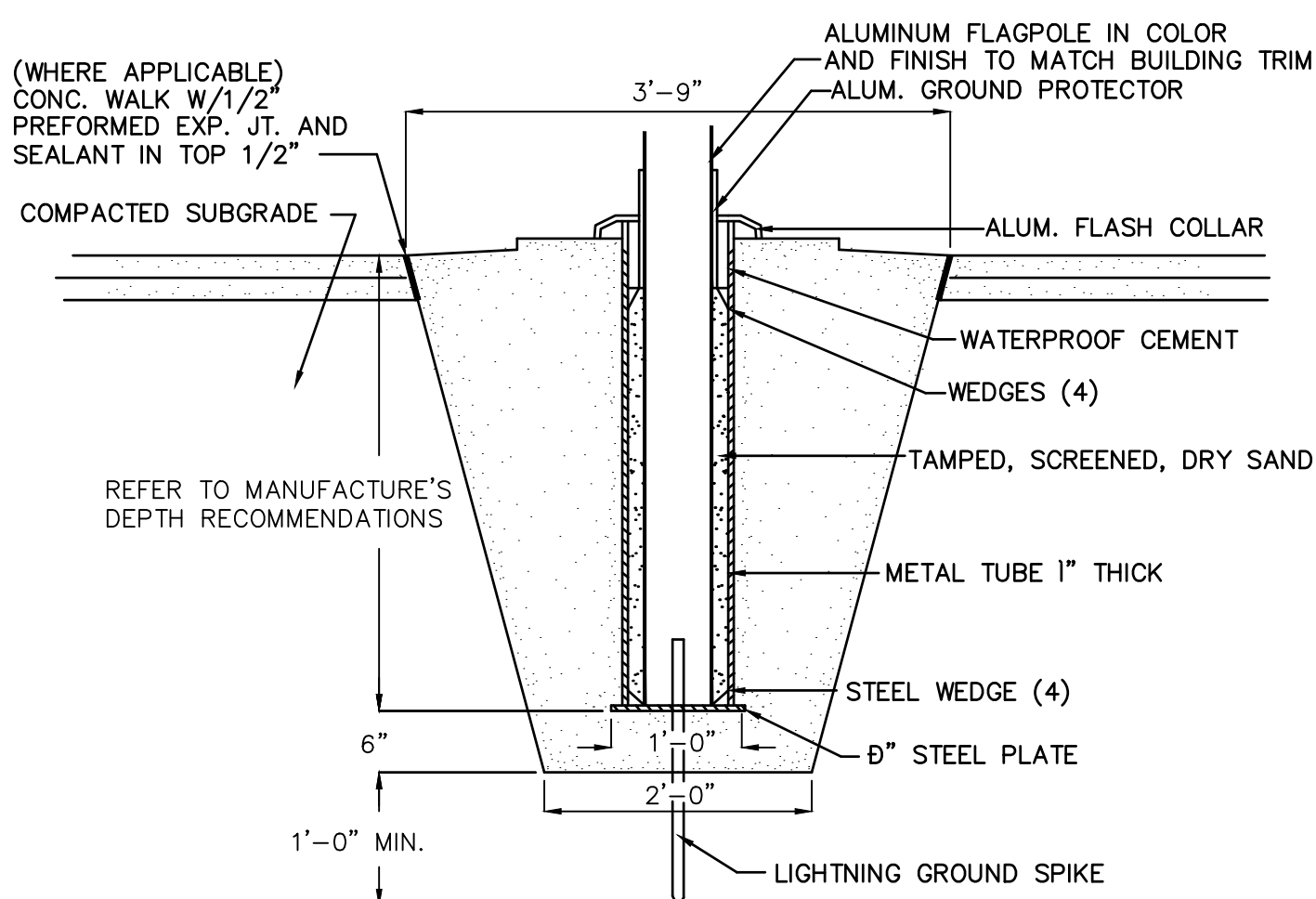


**DETAIL 215 - PAINTED ADA ACCESSIBLE SYMBOL**  
DETAIL  
NOT TO SCALE

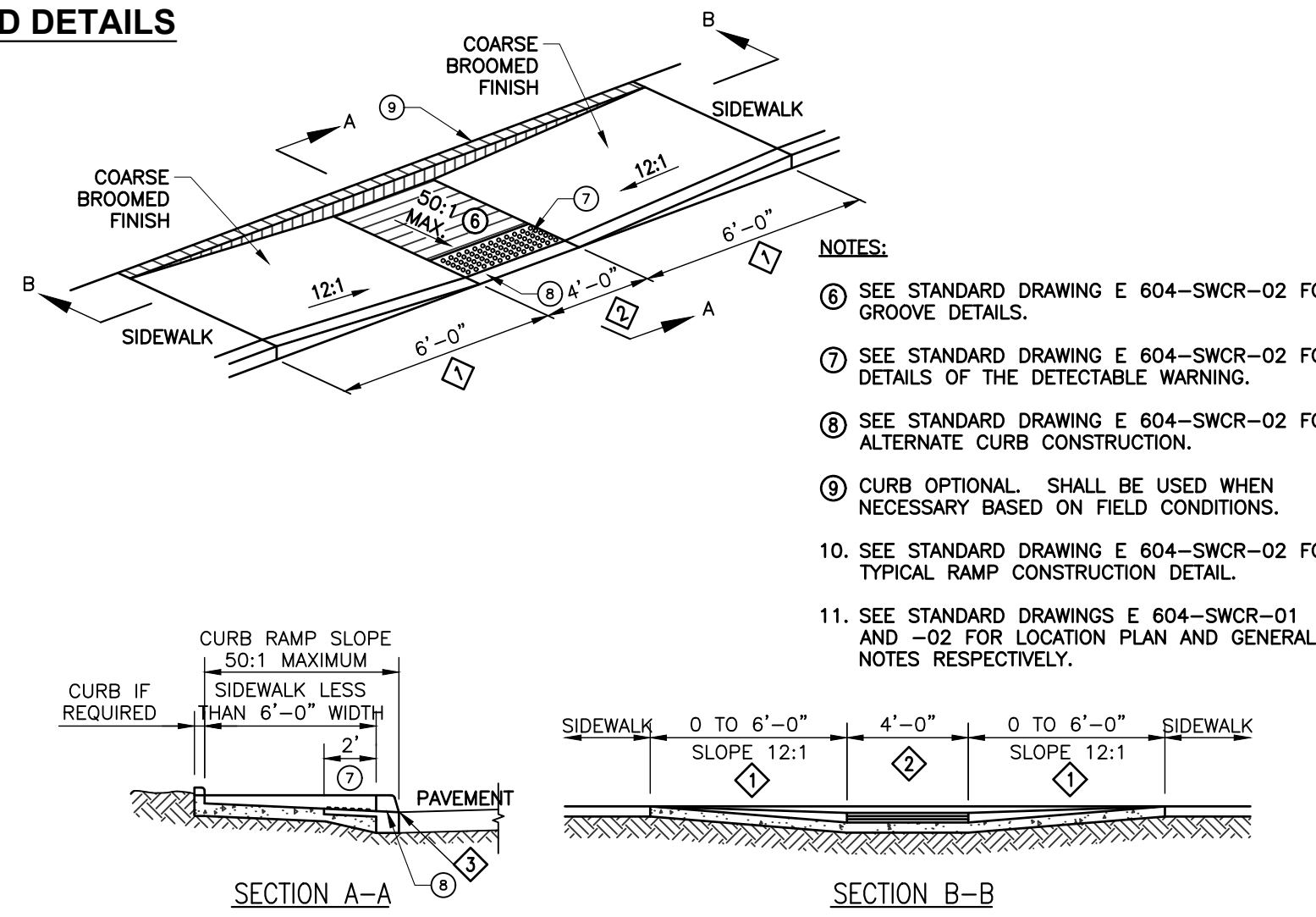
**DETAIL 221 - SIDEWALK CURB RAMPS GENERAL NOTES AND DETAILS**  
(INDOT STANDARD DRAWING E 604-SWCR-02)  
NOT TO SCALE



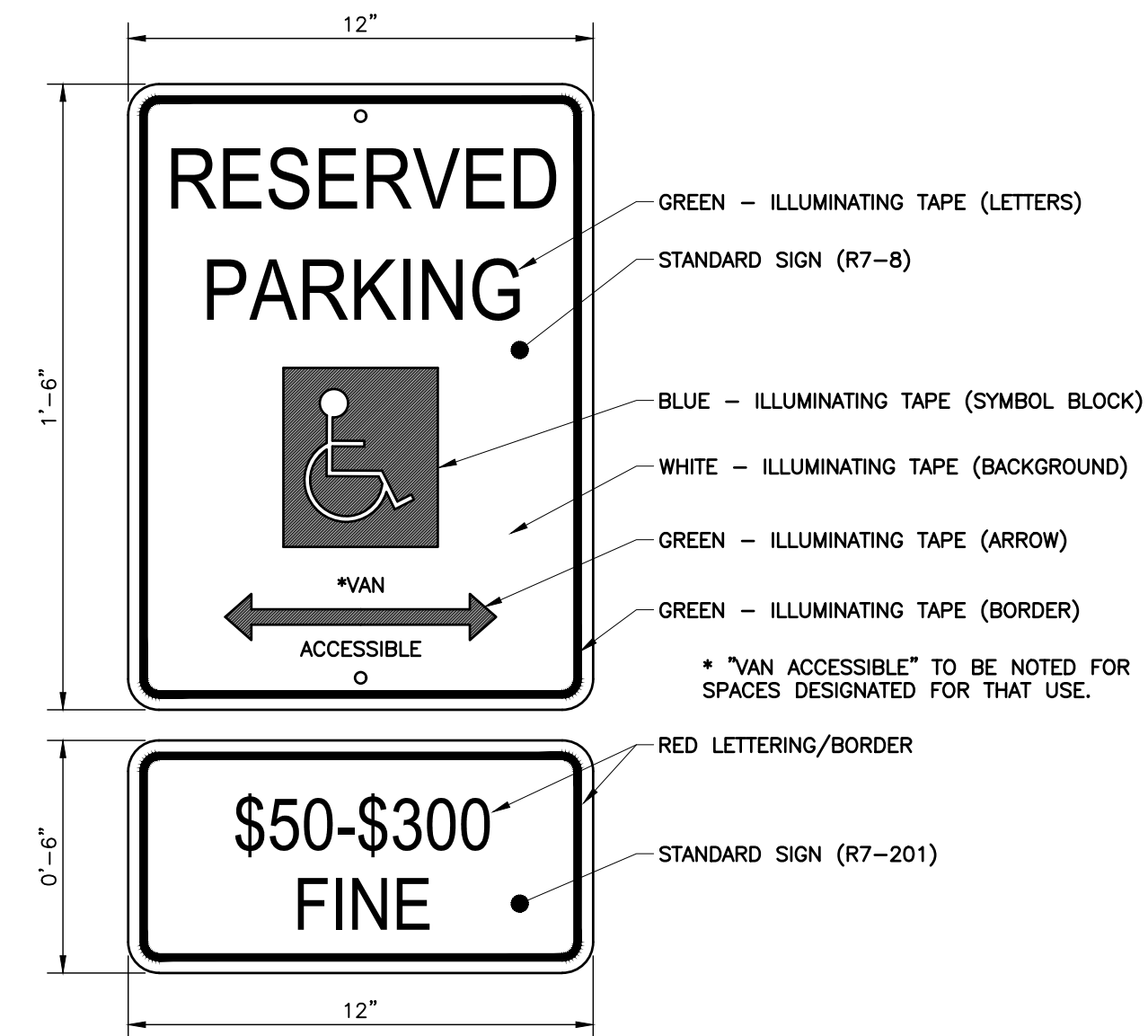
**DETAIL 222 - ADA ACCESSIBLE PARKING STALLS**  
NOT TO SCALE



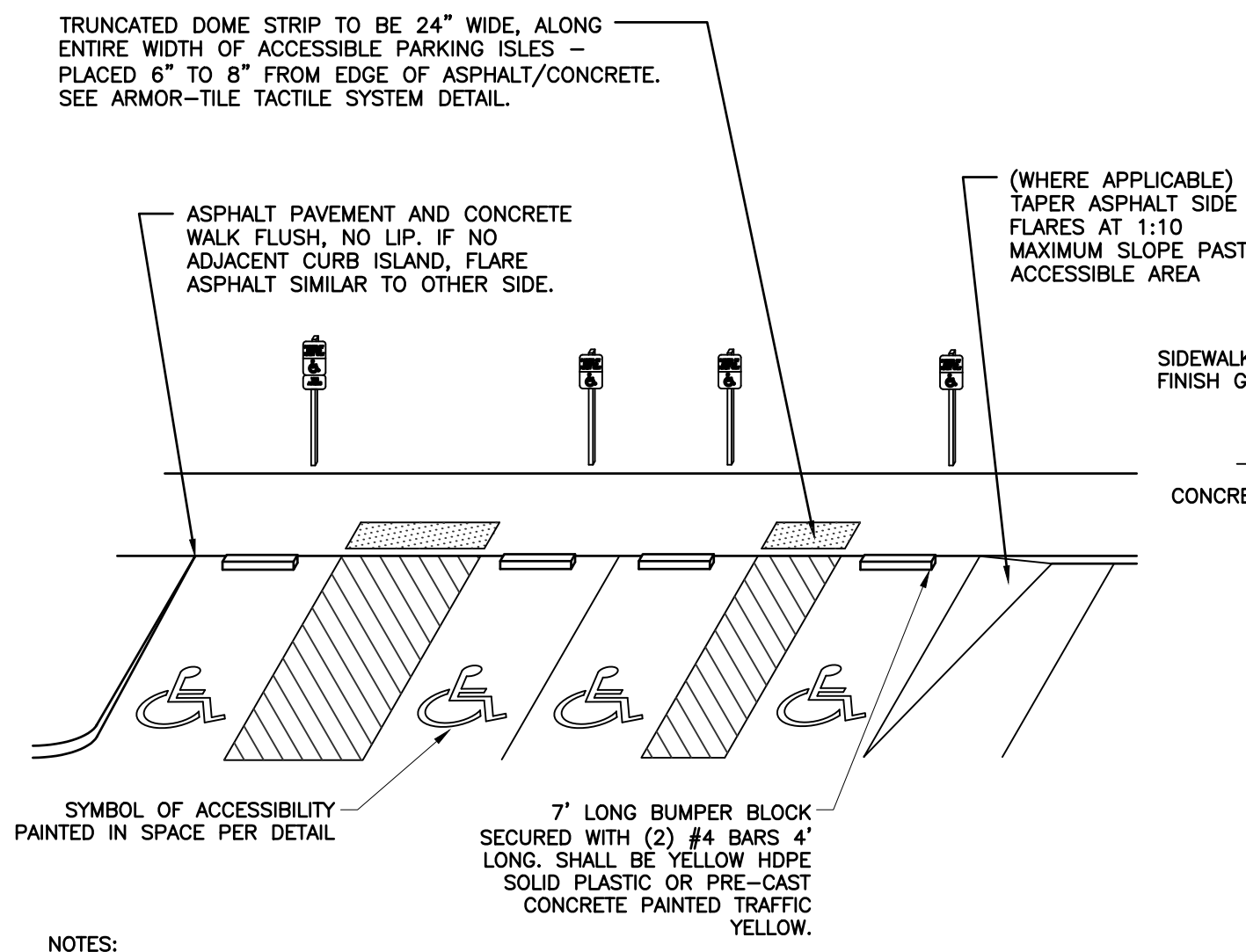
**DETAIL 223 - FLAG POLE BASE**  
NOT TO SCALE



**DETAIL 219 - SIDEWALK CURB RAMP TYPE K**  
(INDOT STANDARD DRAWING E 604-SWCR-10)  
NOT TO SCALE

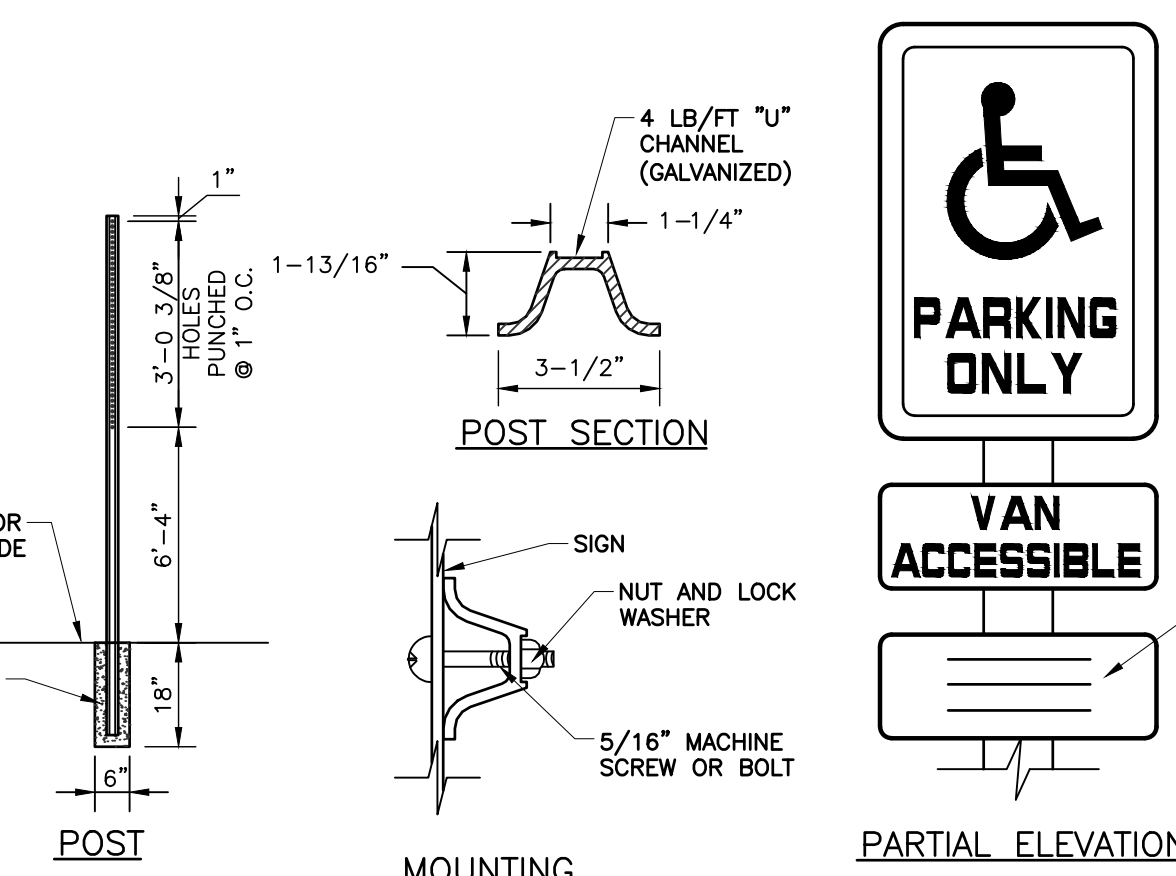


**DETAIL 216 - ADA ACCESSIBLE PARKING SIGN DETAIL**  
NOT TO SCALE

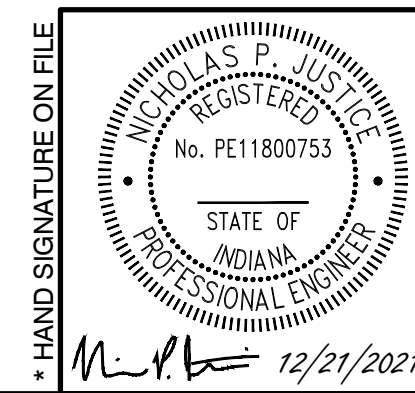


- NOTES:**
- ACCESSIBLE SPACE / LOADING AREA: MAXIMUM 2.0% (1:50) SLOPE IN ANY DIRECTION.
  - ASPHALT TO CONCRETE BLENDED TRANSITION TO BE COMPLETELY FLUSH, NO LIP.
  - PLACEMENT AND STRIPING SHOWN IN DETAIL IS SCHEMATIC. SEE SITE PLAN FOR CONFIGURATION.
  - PASSENGER LOADING AREAS SHALL BE PAINT STRIPED AT 45° ANGLE, EACH 6\"/>

**DETAIL 220 - ACCESSIBLE PARKING**  
NOT TO SCALE



**DETAIL 217 - ADA ACCESSIBLE PARKING SIGNS**  
NOT TO SCALE



**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	09/11/2023	ADDendum #3

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530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

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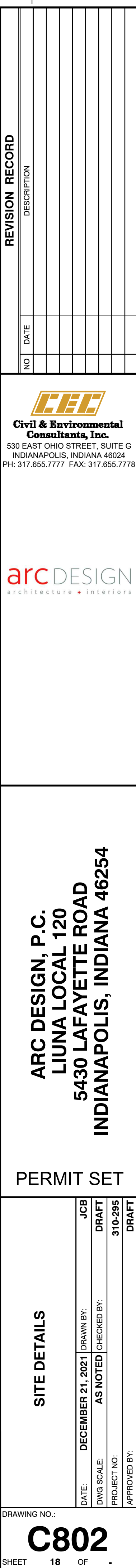
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SITE DETAILS	
DATE: DECEMBER 21, 2021	DRAWN BY: JCB
DWG SCALE: DRAFT	AS NOTED / CHECKED BY: 310-295
PROJECT NO: 310-295	APPROVED BY: DRAFT

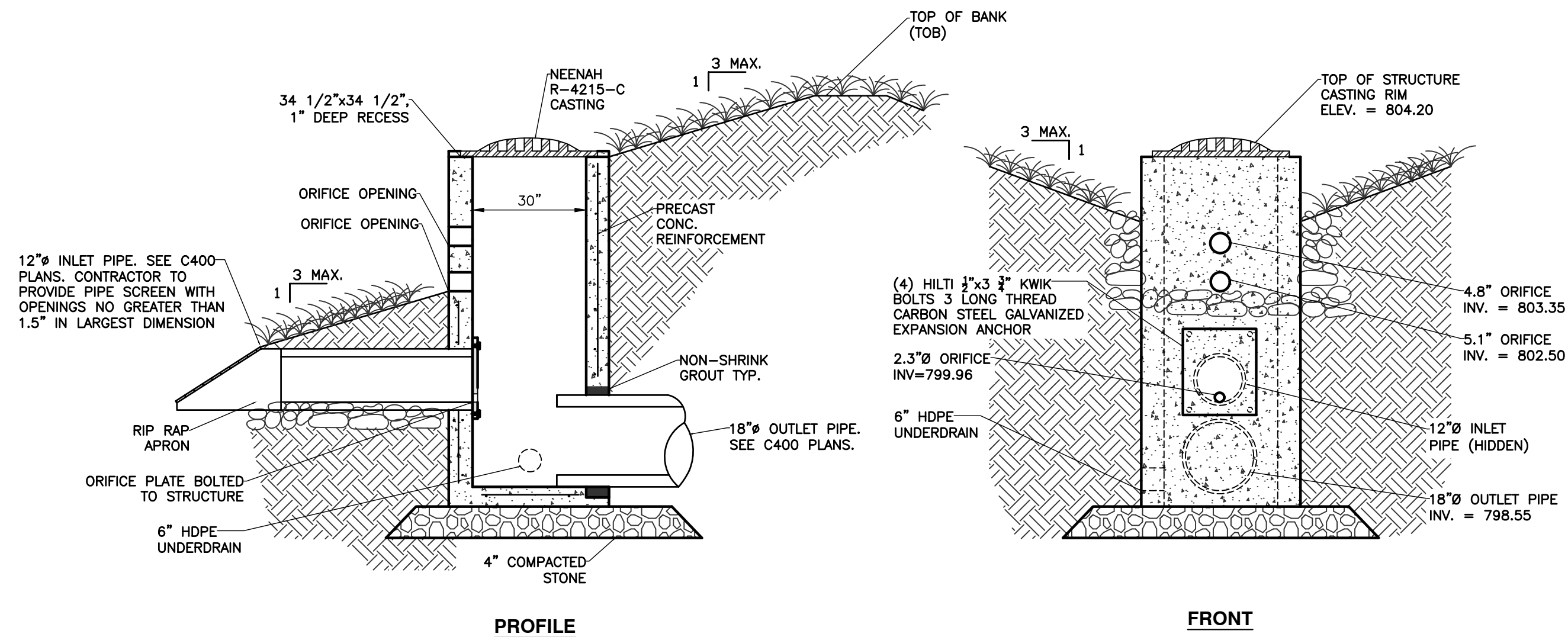
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SHEET 17 OF 17





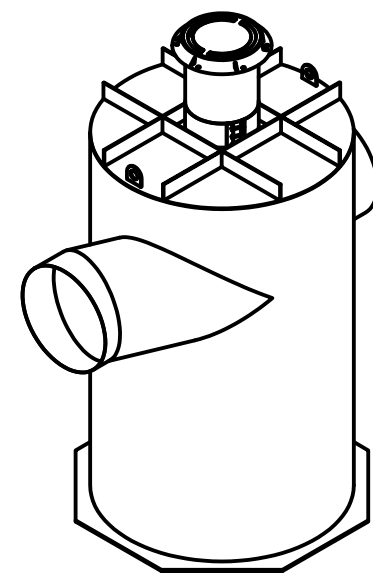


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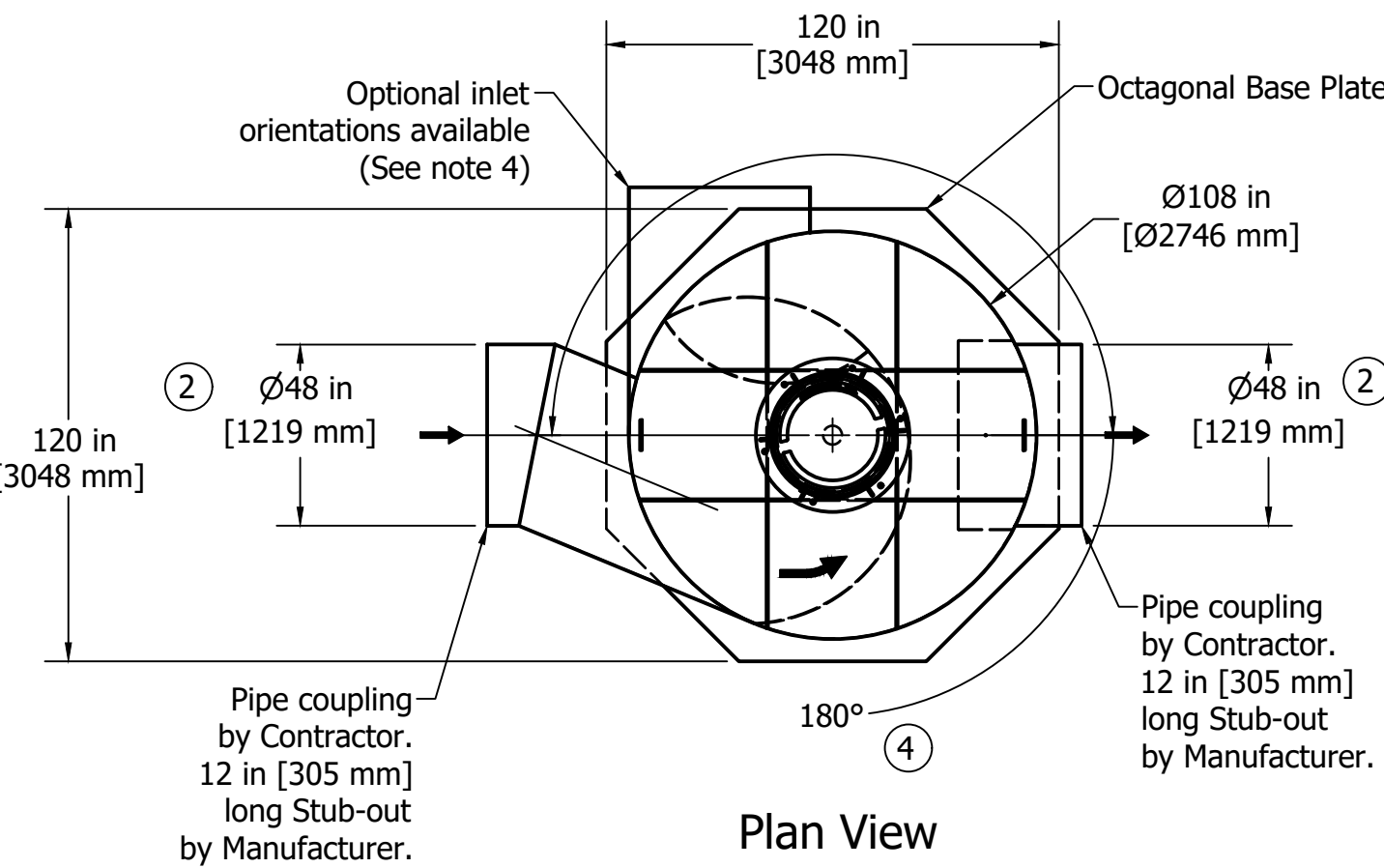


DETAIL 413 - OUTLET CONTROL  
STRUCTURE  
NOT TO SCALE

Aqua-Swirl Polymer Coated Steel (PCS)  
Stormwater Treatment System



Projected View  
SCALE 1:80



Plan View  
SCALE 1:50

 2733 Kanasta Drive, Suite 111, Chattanooga, TN 37343 Phone: (888) 344-9044 Fax: (423) 826-2112 www.aquashieldinc.com	Aqua-Swirl Xcelerator XC-9 CCW STD Aqua-Swirl Stormwater Treatment System Standard Detail	Structure #:	XC-9 STD	Rvwed	Rvw. Date
		Drawn By:	OFlores		
		Scale:	As Shown		
		Date:	6/26/2019		
		U.S. Patent No. 6524473 and other Patent Pending			

DETAIL 412- AQUA-SWIRL XC-9 DETAIL  
NOT TO SCALE

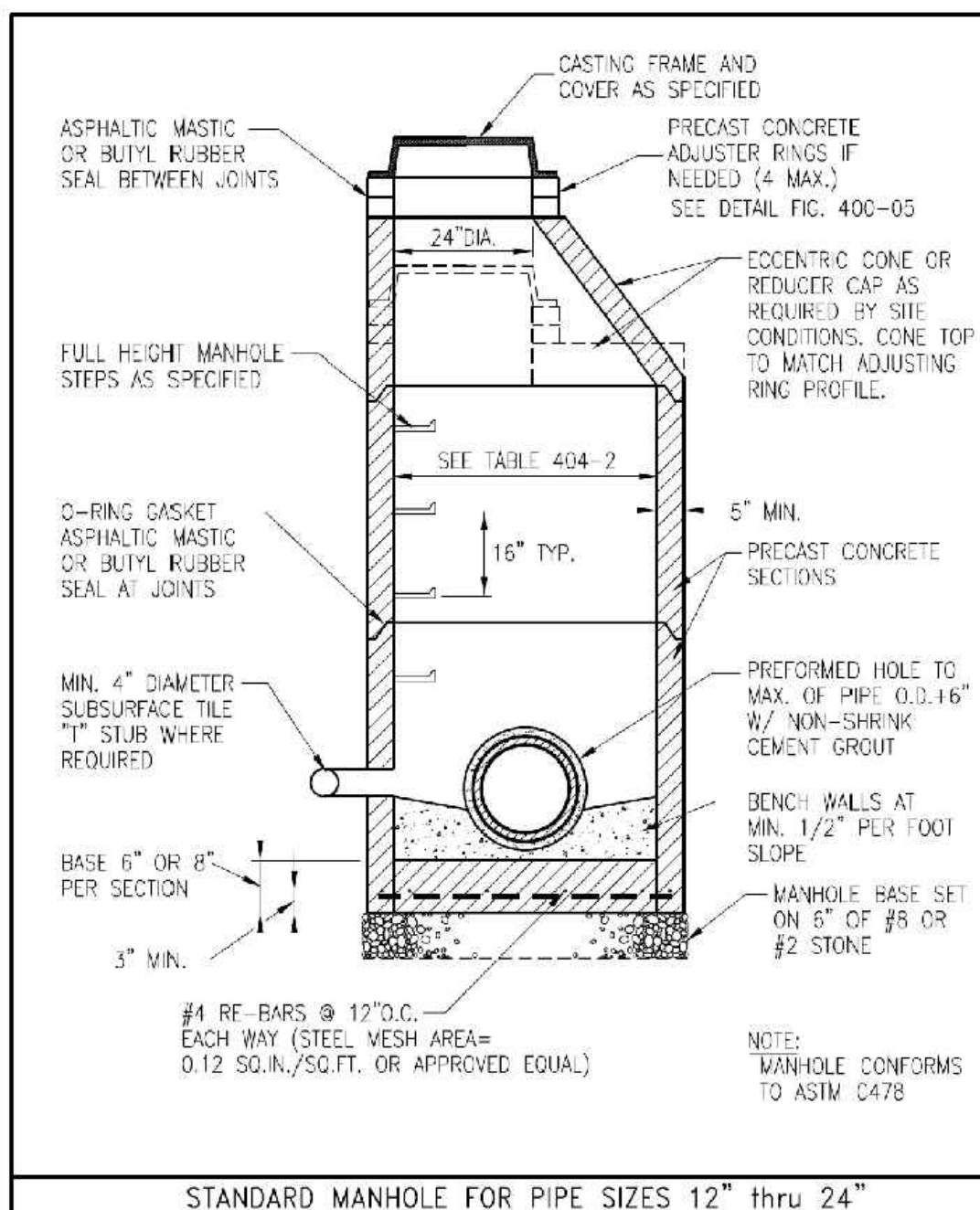


FIGURE 400-01: Standard Manhole for Pipe Sized 12" thru 24"

NOTE: BENCH WALLS SHALL CONFORM TO SECTION 404.06 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U'-SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/4 INCH PER FOOT SLOPE TO THE MANHOLE WALL.

City of Indianapolis  
Storm Water Specifications Manual  
Appendix page A4-1  
January 2011 - FINAL

DETAIL 415- STORM MANHOLE  
PIPE SIZES 12"-24"  
NOT TO SCALE

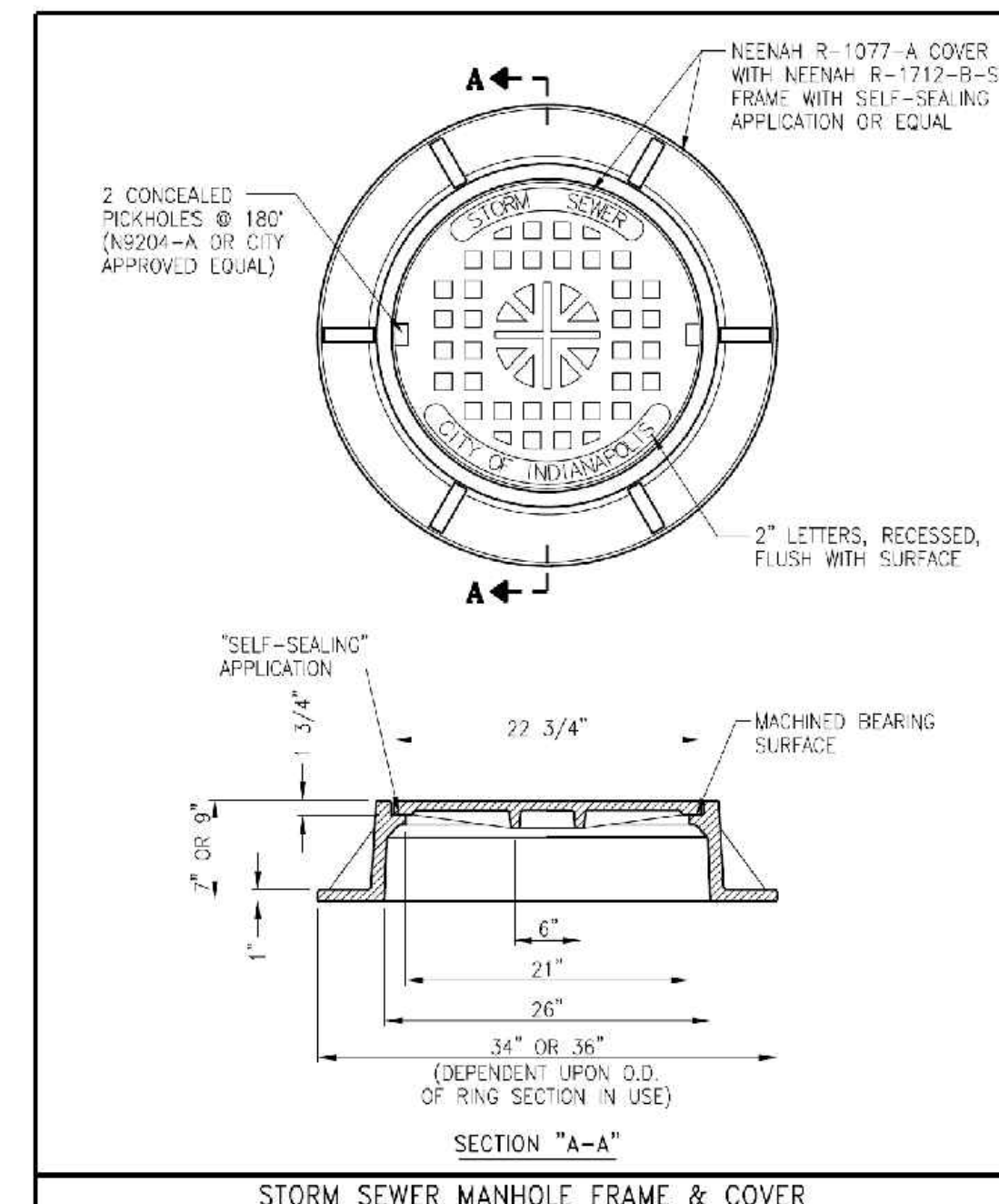


FIGURE 400-11: Storm Sewer Manhole Frame & Cover

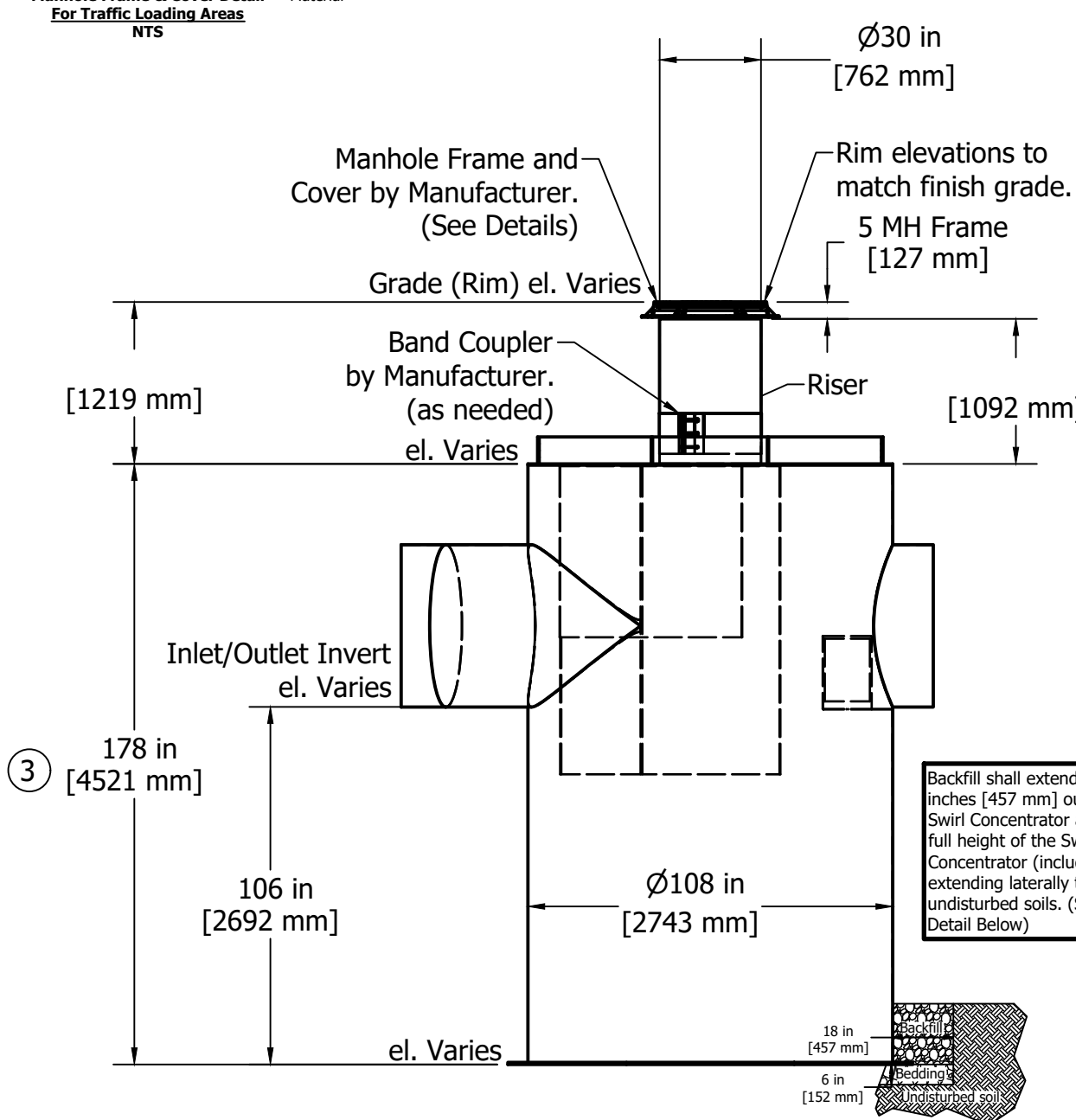
\*NOTE: INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

City of Indianapolis  
Storm Water Specifications Manual  
Appendix page A4-11  
January 2011 - FINAL

DETAIL 414- STORM SEWER MANHOLE  
FRAME & COVER  
NOT TO SCALE

Please see accompanied Aqua-Swirl specification notes. See Site Plan for actual System orientation. Approximate dry (pick) weight: 5900 lbs [2700 kg].

- As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
- XC-9 inlet/outlet pipe size ranges up to 48 in [1219 mm].
- XC-9 chamber height may vary up to 178 in [4521 mm], depending on inlet/outlet pipe size.
- Orientation may vary from a minimum of 90° to a maximum of 180°. Clockwise or counterclockwise orientation as needed.



Elevation View  
SCALE 1:50

REVISION RECORD		DESCRIPTION
NO.	DATE	

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Consultants, Inc.  
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INDIANAPOLIS, INDIANA 46254

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SITE DETAILS

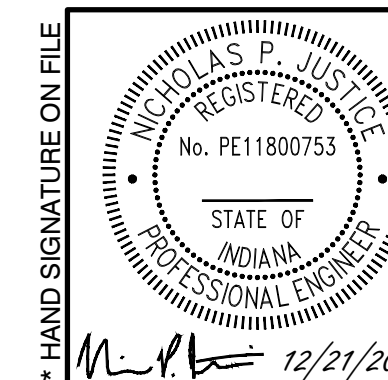
DATE:	DECEMBER 21, 2021	DRAWN BY:	JCB
DWG SCALE:	AS NOTED	CHECKED BY:	DRAFT
PROJECT NO:	310-295	APPROVED BY:	DRAFT

DRAWING NO.:

C803

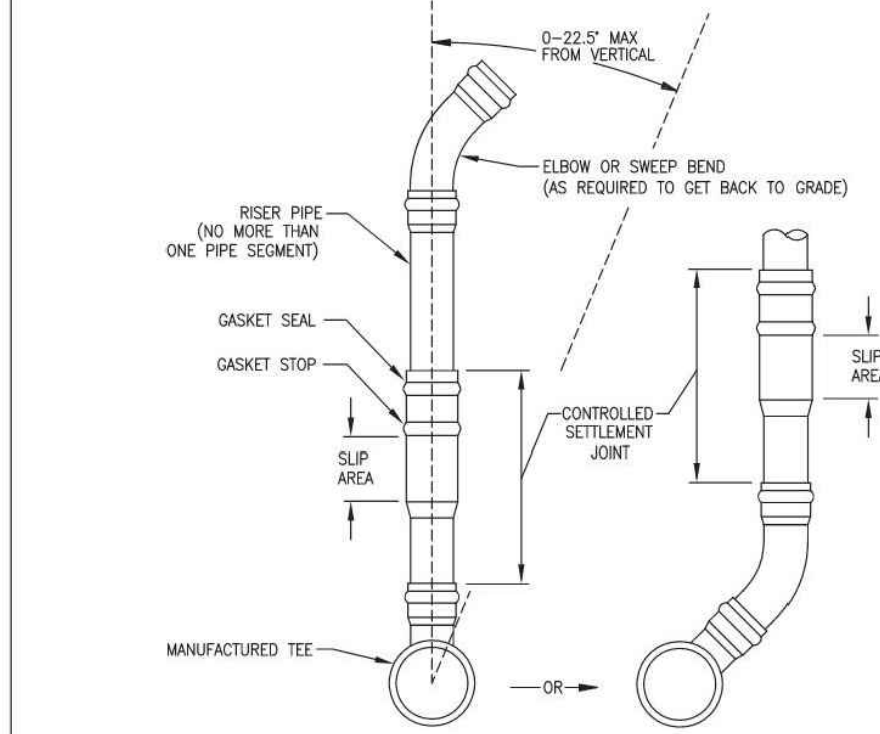
SHEET 19 OF

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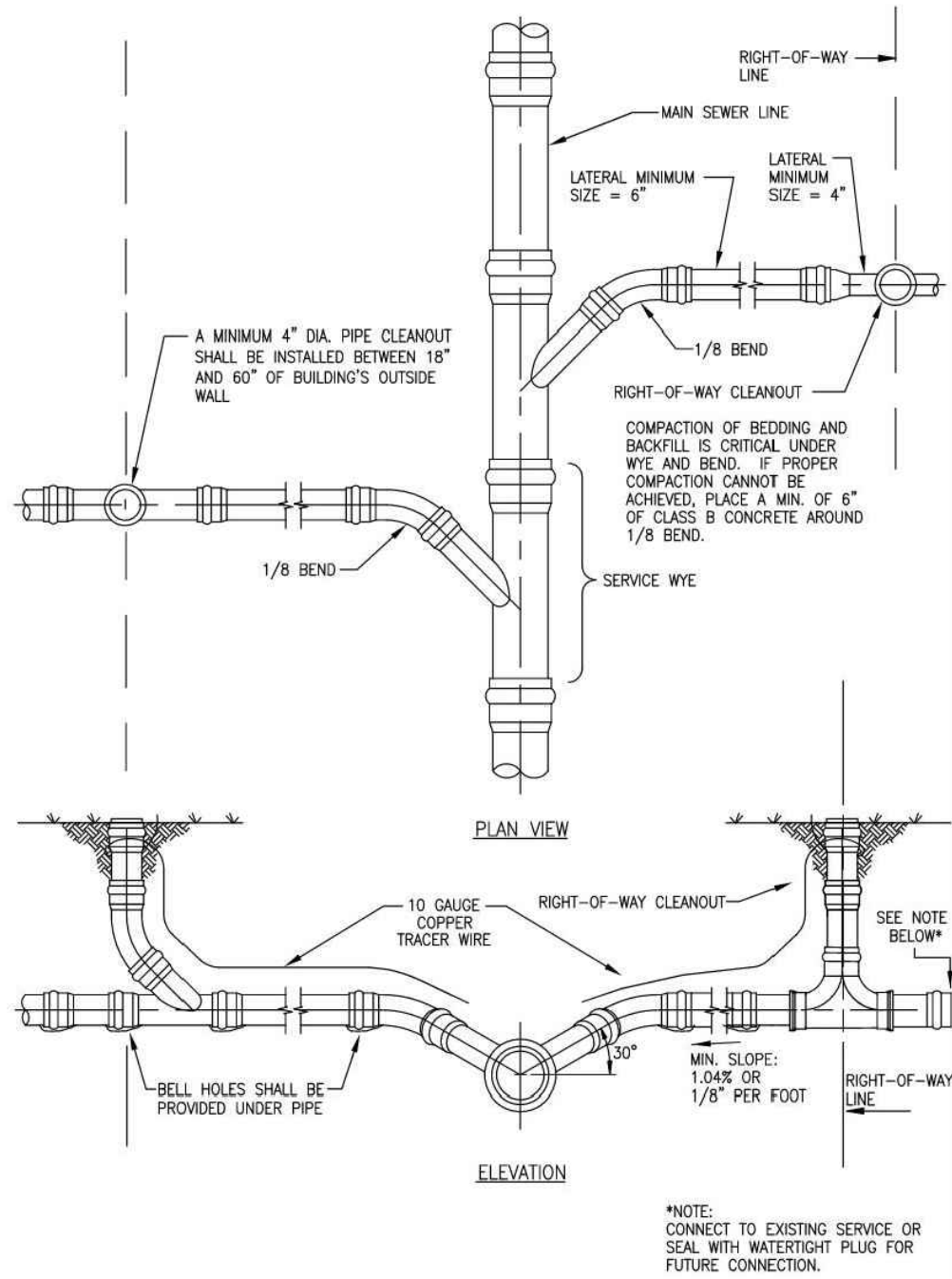




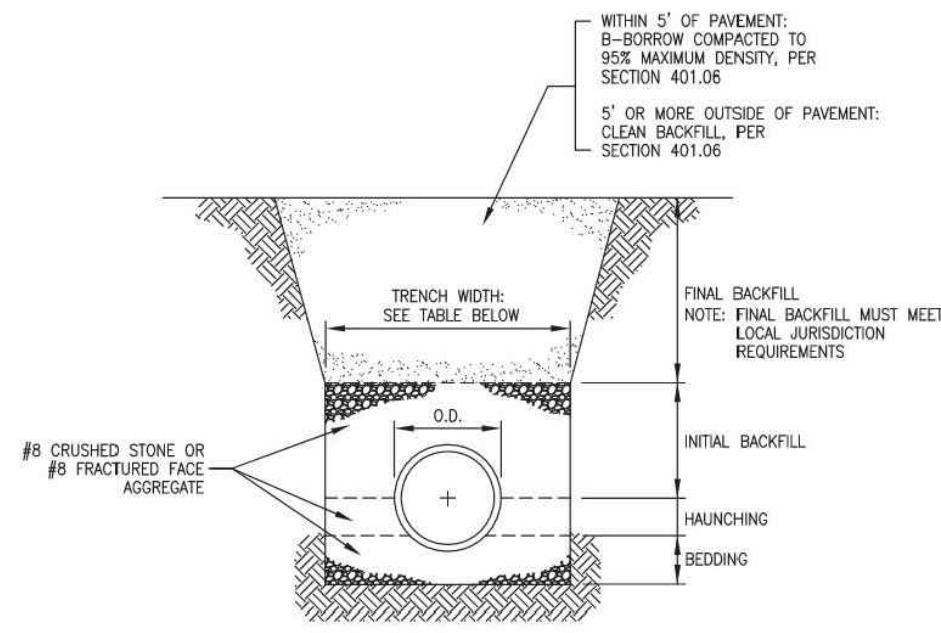
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**DETAIL 503 - CONTROLLED SETTLEMENT JOINT  
INSTALLATION DETAIL**  
NOT TO SCALE



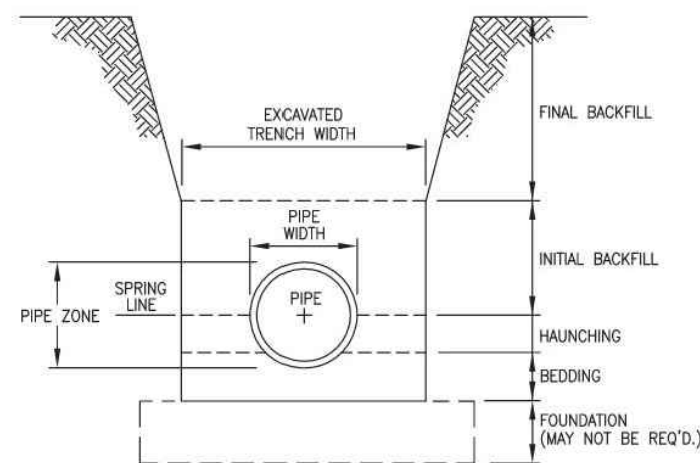
**DETAIL 502 - SERVICE CONNECTION FOR  
SHALLOW SEWERS (LESS THAN 15' DEEP)  
DETAIL**  
NOT TO SCALE



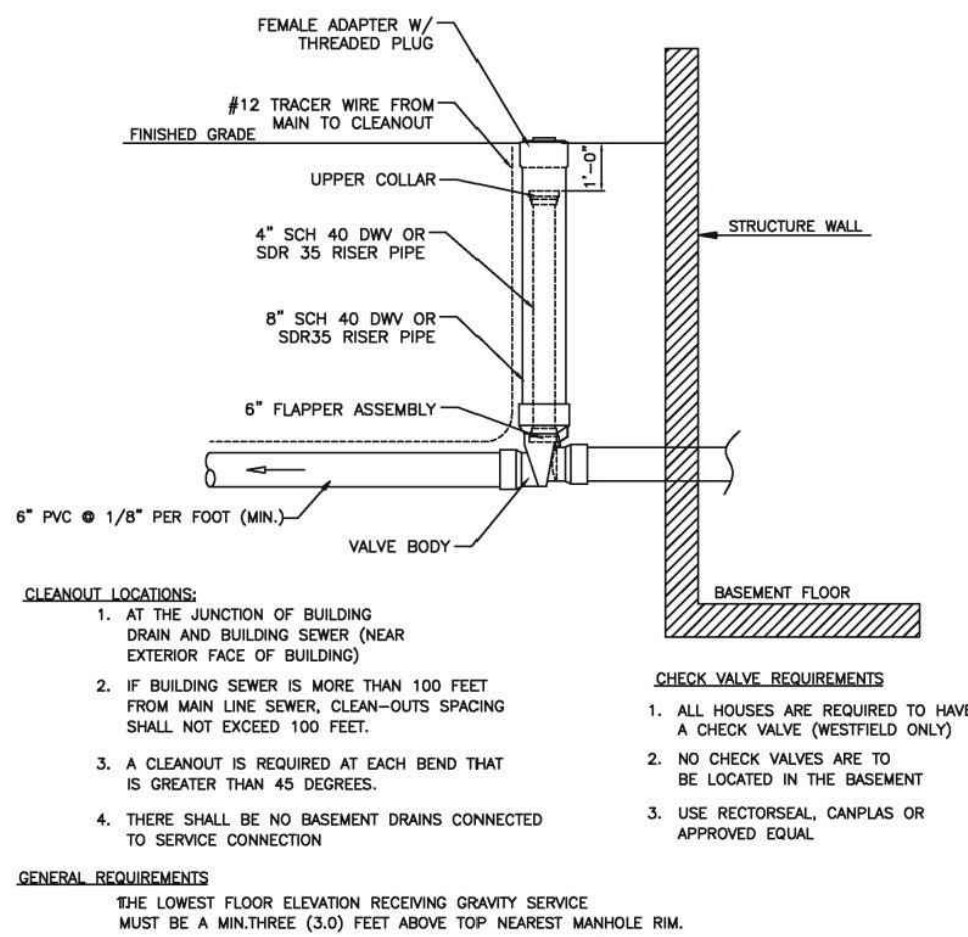
MINIMUM BEDDING, HAUNCHING, AND INITIAL BACKFILL DEPTHS		
PIPE SIZE	BEDDING (BELOW PIPE BARREL)	HAUNCHING AND INITIAL BACKFILL (ABOVE TOP OF PIPE)
UNDER 8"	4" MIN.	4" MIN.
8" TO 15"	4" MIN.	12" MIN.
18" & OVER	8" MIN.	12" MIN.

MINIMUM TRENCH WIDTHS	
PIPE SIZE	MINIMUM WIDTH
UP TO 18"	O.D. + 16"
18" & OVER	(O.D. x 1.25) + 12"

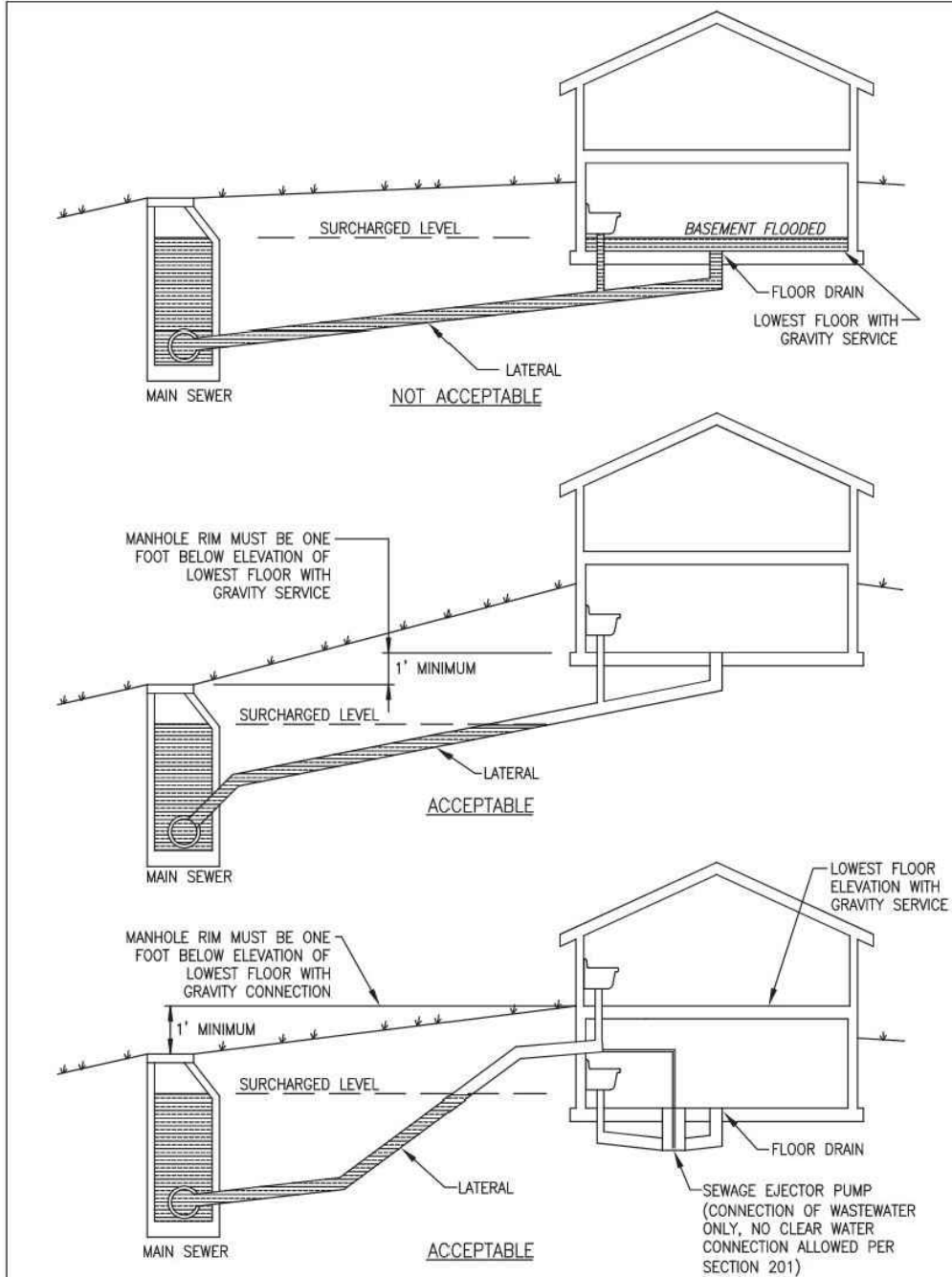
**DETAIL 501 - FLEXIBLE PIPE BEDDING &  
BACKFILL REQUIREMENTS DETAIL**  
NOT TO SCALE



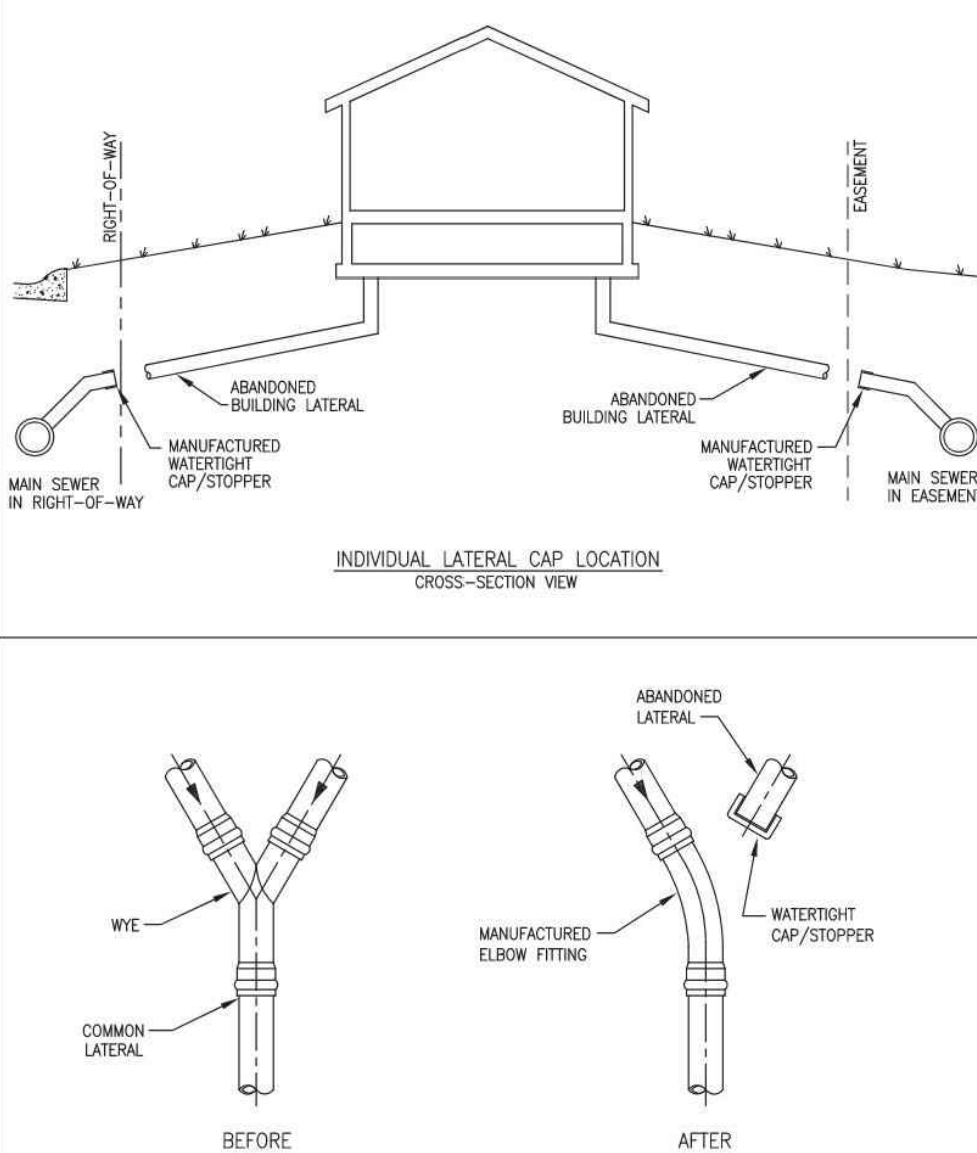
**DETAIL 500 - TERMS USED IN TRENCH DETAILS**  
NOT TO SCALE



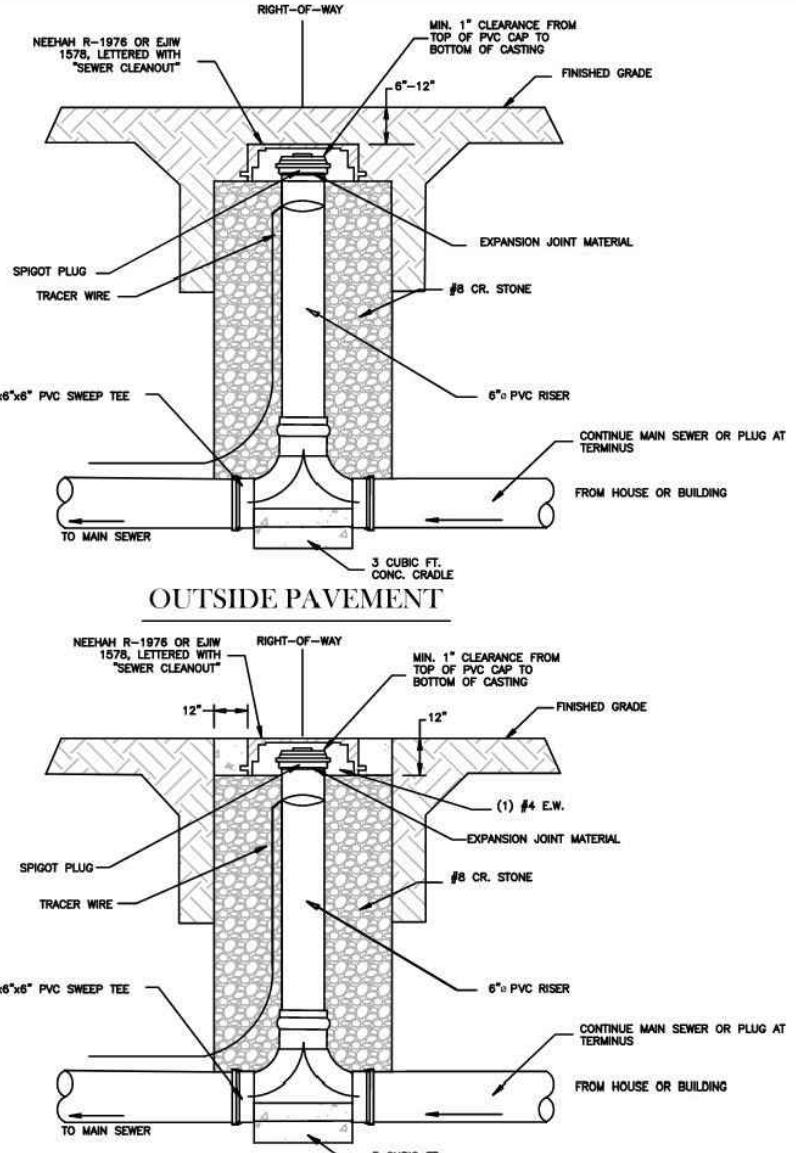
**DETAIL 507 - HOUSE/BUILDING SERVICE  
CLEAN-OUT/CHECK VALVE DETAIL**  
NOT TO SCALE



**DETAIL 506 - MINIMUM ELEVATIONS FOR  
GRAVITY CONNECTION**  
NOT TO SCALE



**DETAIL 505 - ACCEPTED METHODS OF CAPPING  
AN ABANDONED SEWER LATERAL**  
NOT TO SCALE



**DETAIL 504 - RIGHT-OF-WAY CLEAN-OUT DETAIL**  
NOT TO SCALE

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NO. DATE DESCRIPTION

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Consultants, Inc.**  
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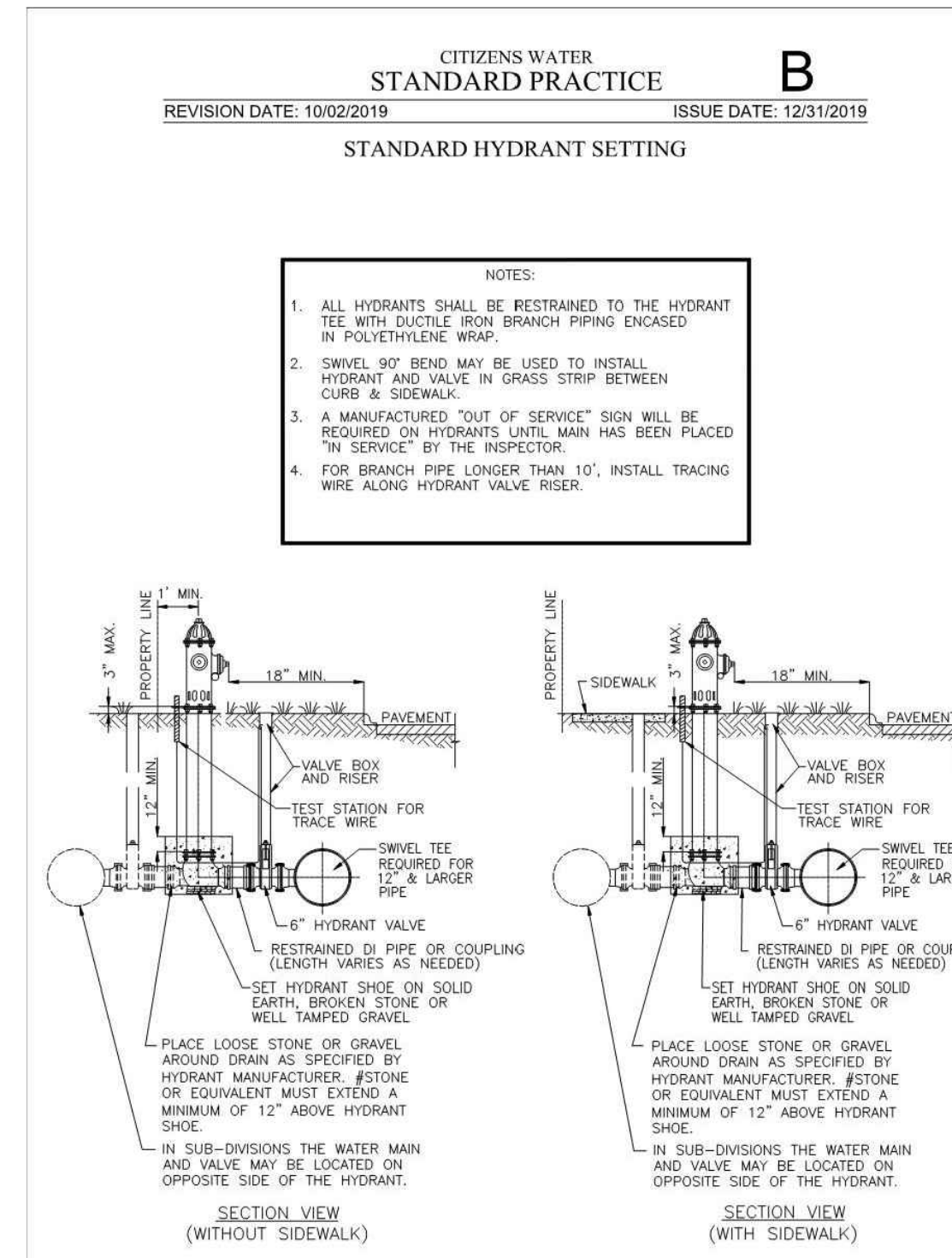
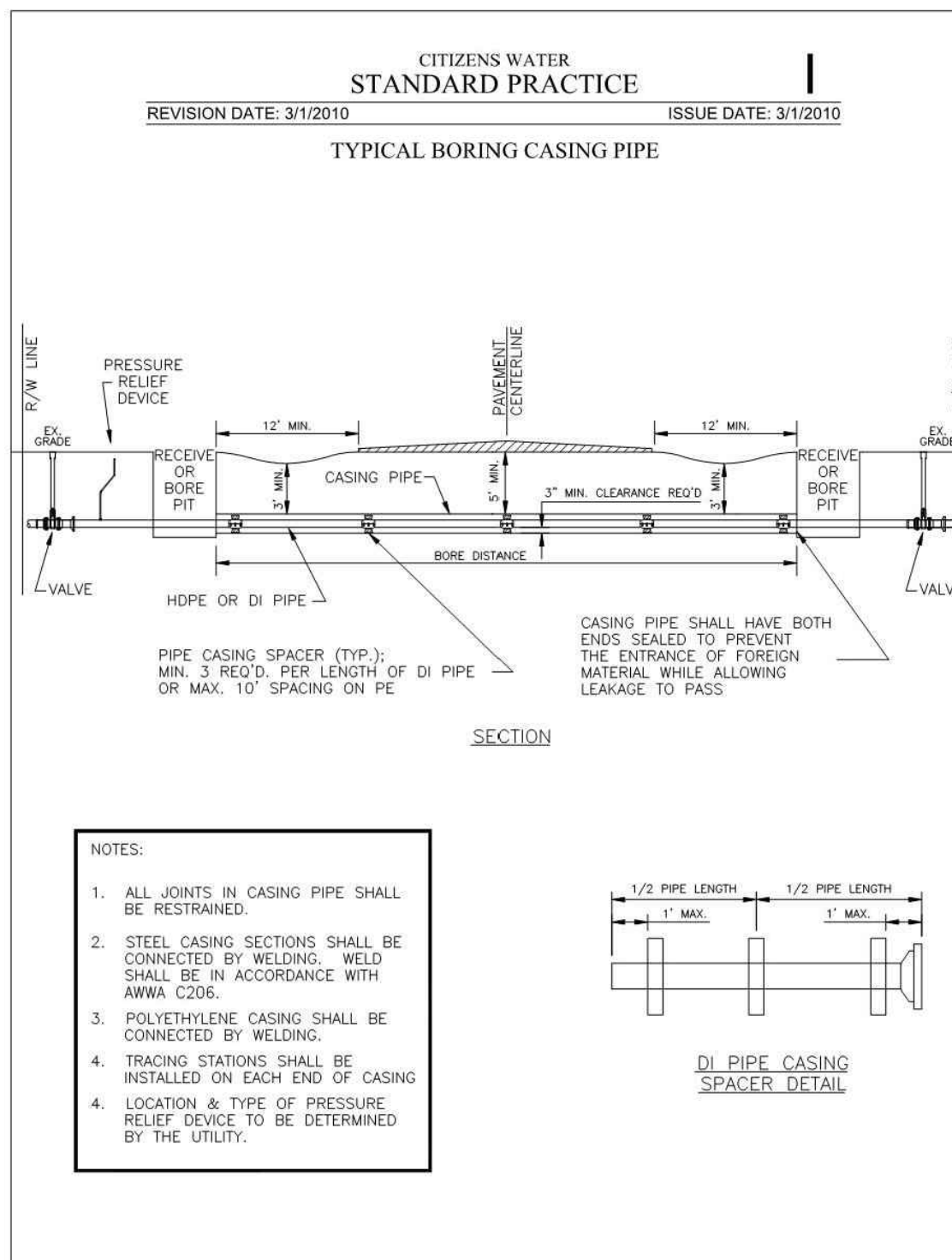
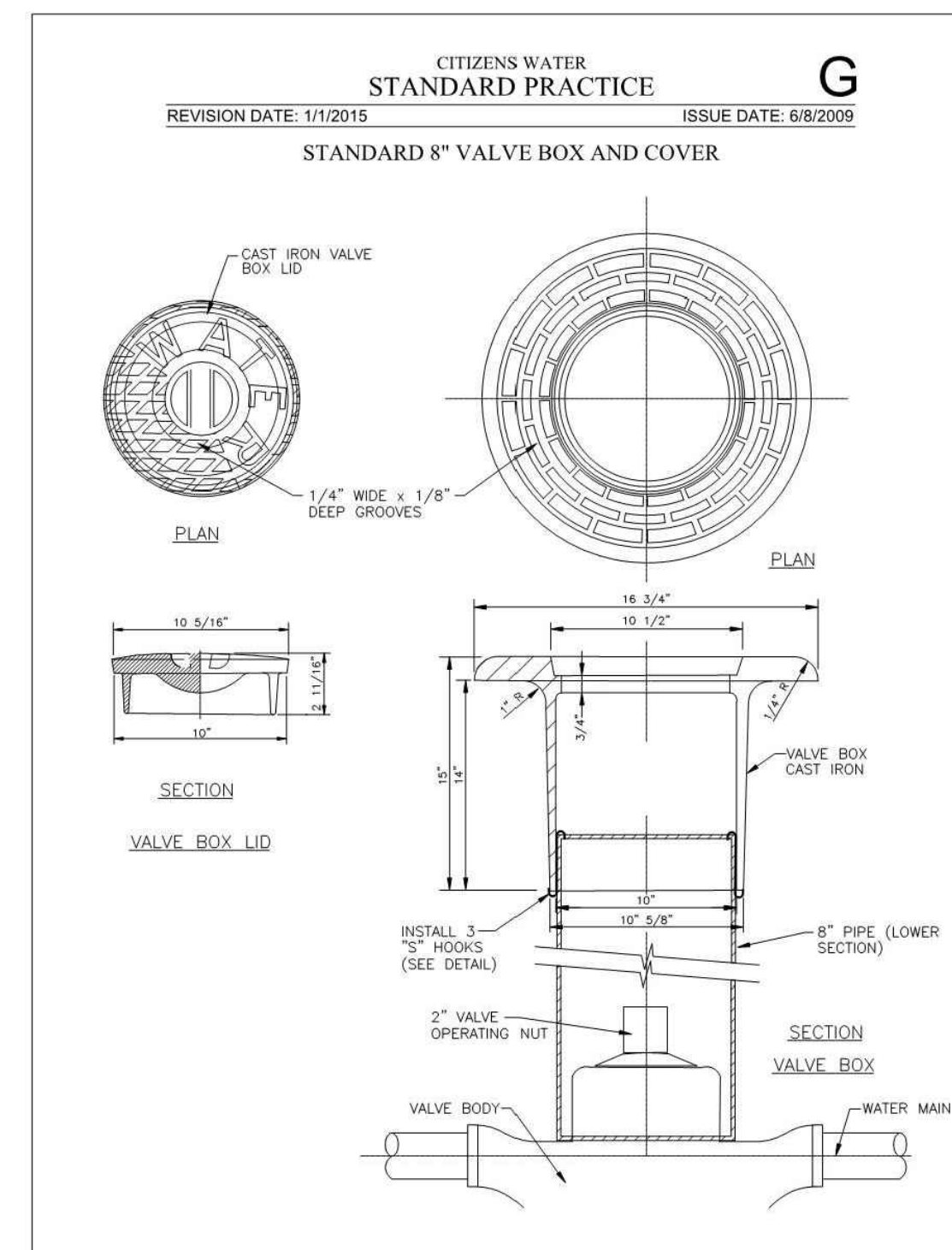
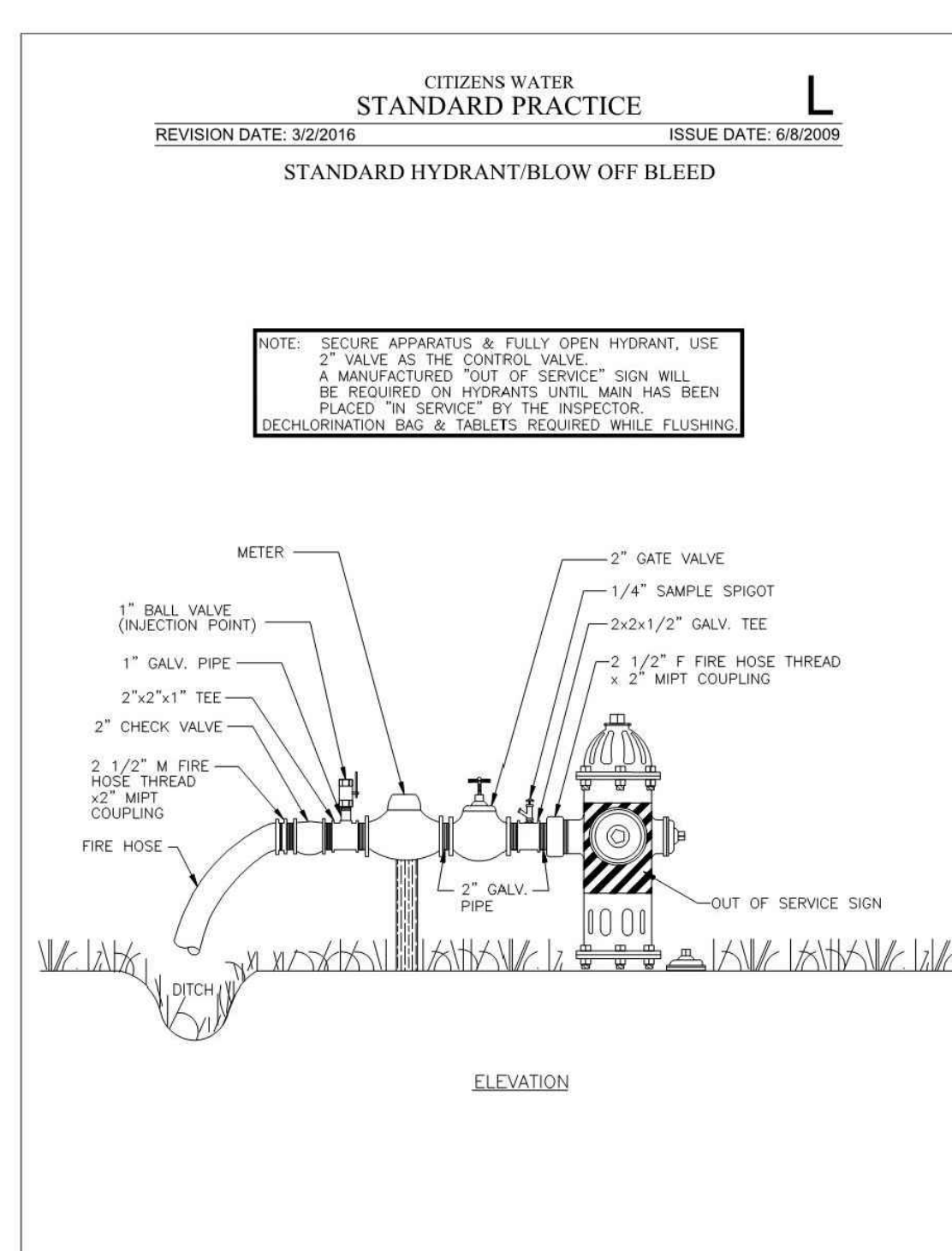
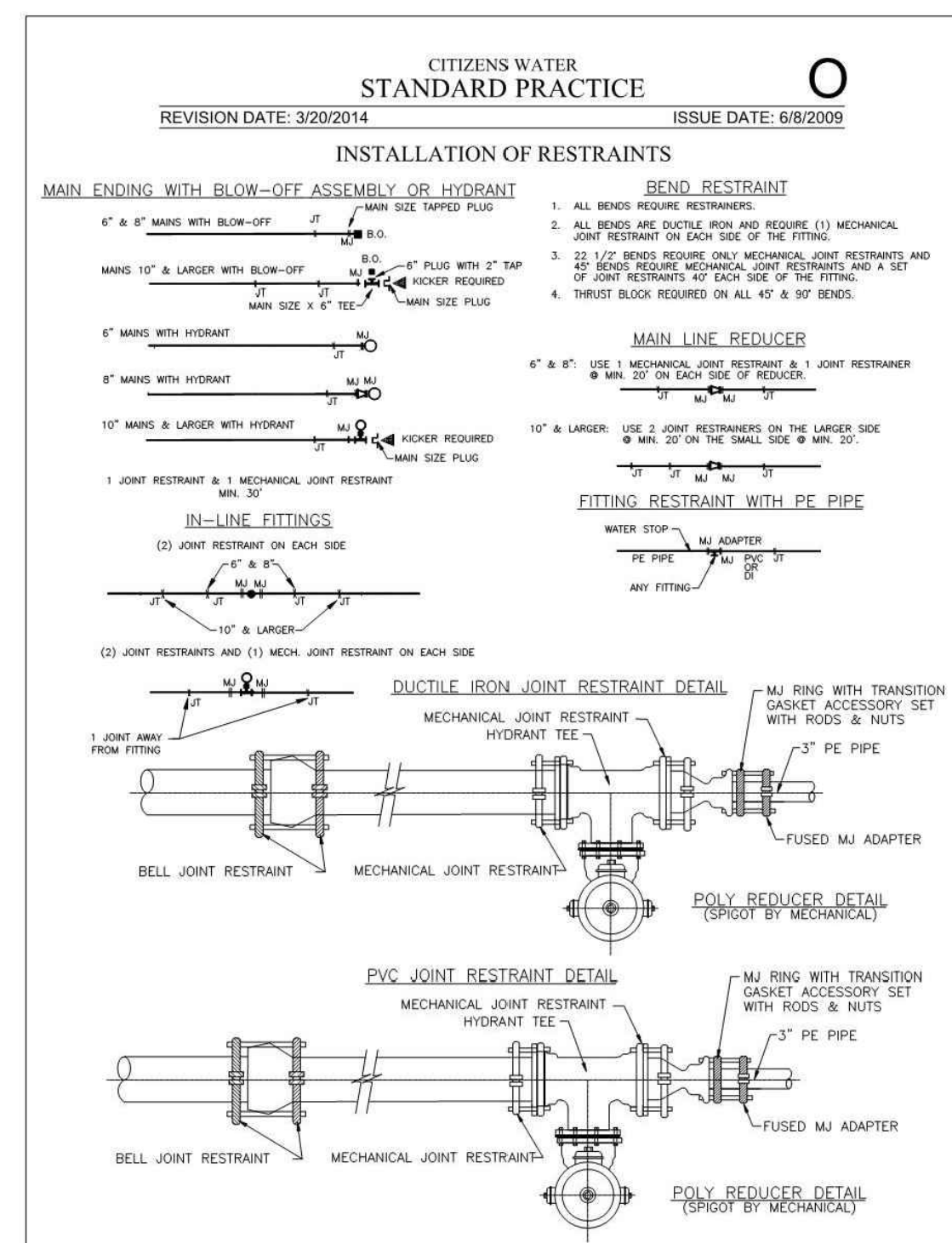
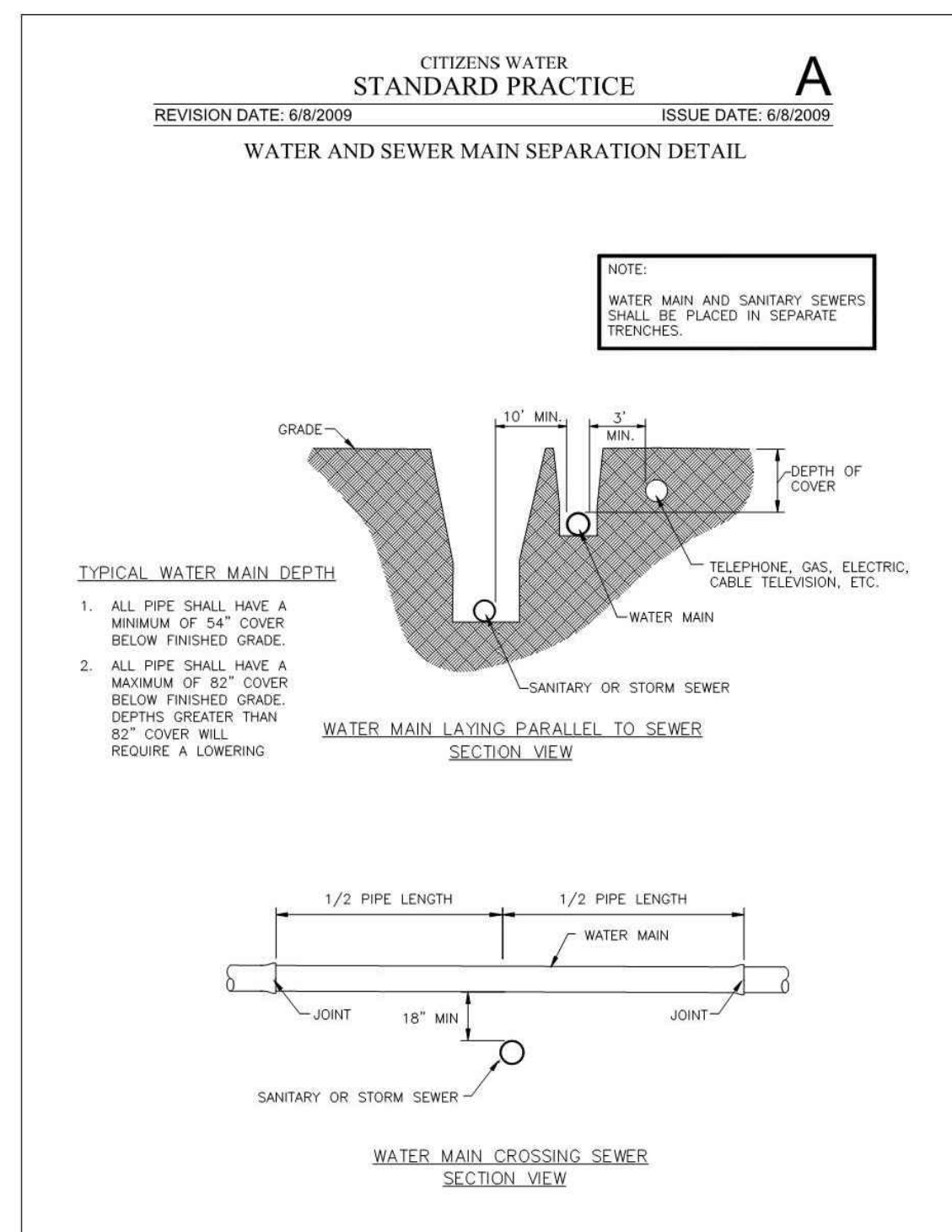
SITE DETAILS

DRAWING NO.:

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Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

SITE DETAILS					
DATE:	DECEMBER 21, 2021	DRAWN BY:	JCB		
DWG SCALE:		AS NOTED	CHECKED BY:	DRAFT	
PROJECT NO:				310-295	
APPROVED BY:				DRAFT	

DRAWING NO.:  
**C805**  
SHEET 21 OF -





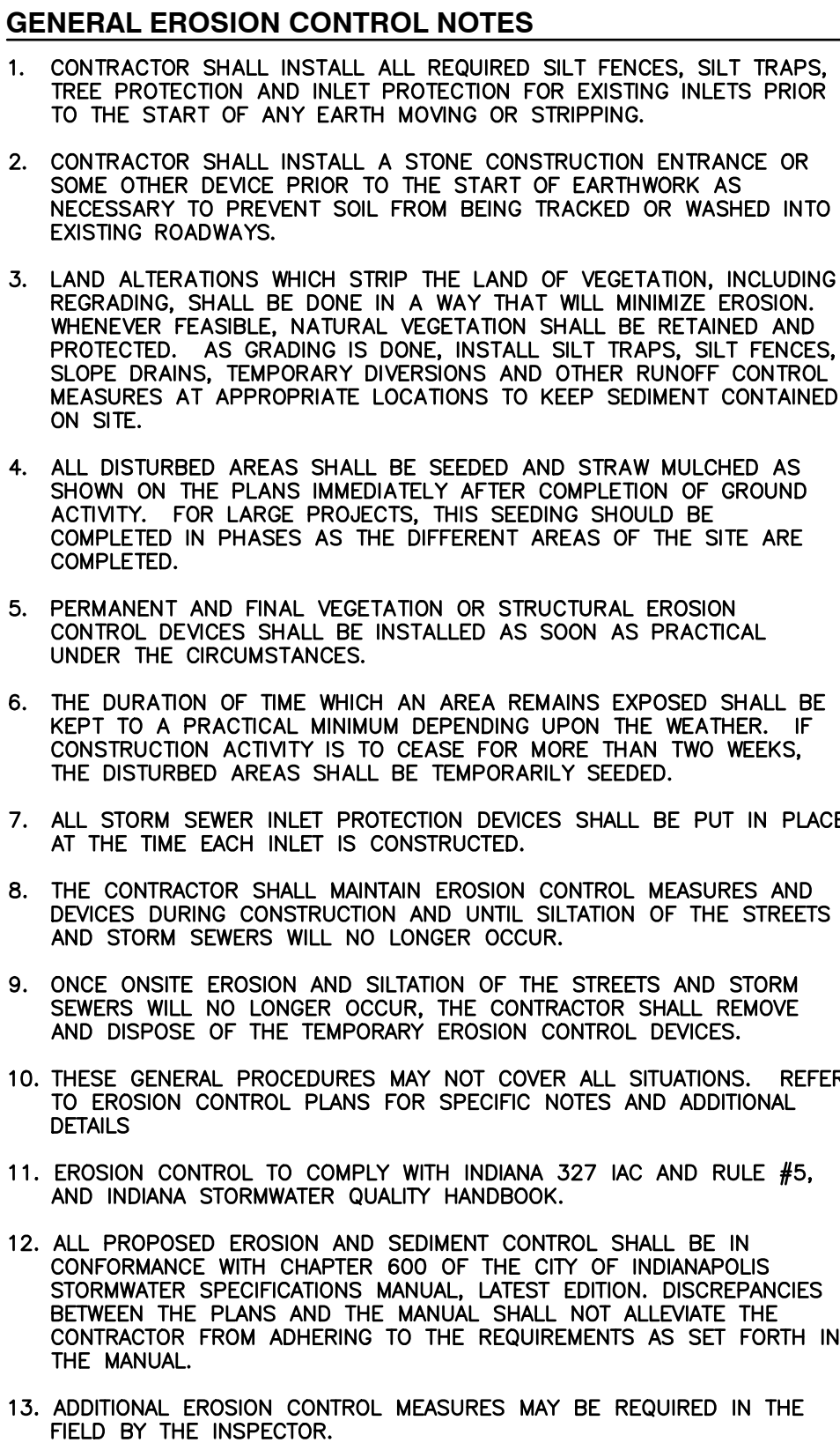










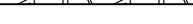





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**Civil & Environmental  
Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

**arc**DESIGN  
architecture + interiors

### PROPOSED EROSION CONTROL LEGEND:

	PROPOSED GRAVEL CONSTRUCTION ENTRANCE
	EROSION CONTROL BLANKET
	PERMANENT/TEMPORARY SEEDING AREAS
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE
	PROPOSED FILTER SOCK

ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

PERMIT SET

**TEMPORARY STORMWATER  
POLLUTION PREVENTION PLAN**

DRAWING NO.:  
**C900**  
SHEET **25** OF -

## REFERENCE

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

**FOR BIDDING  
PURPOSES ONLY**



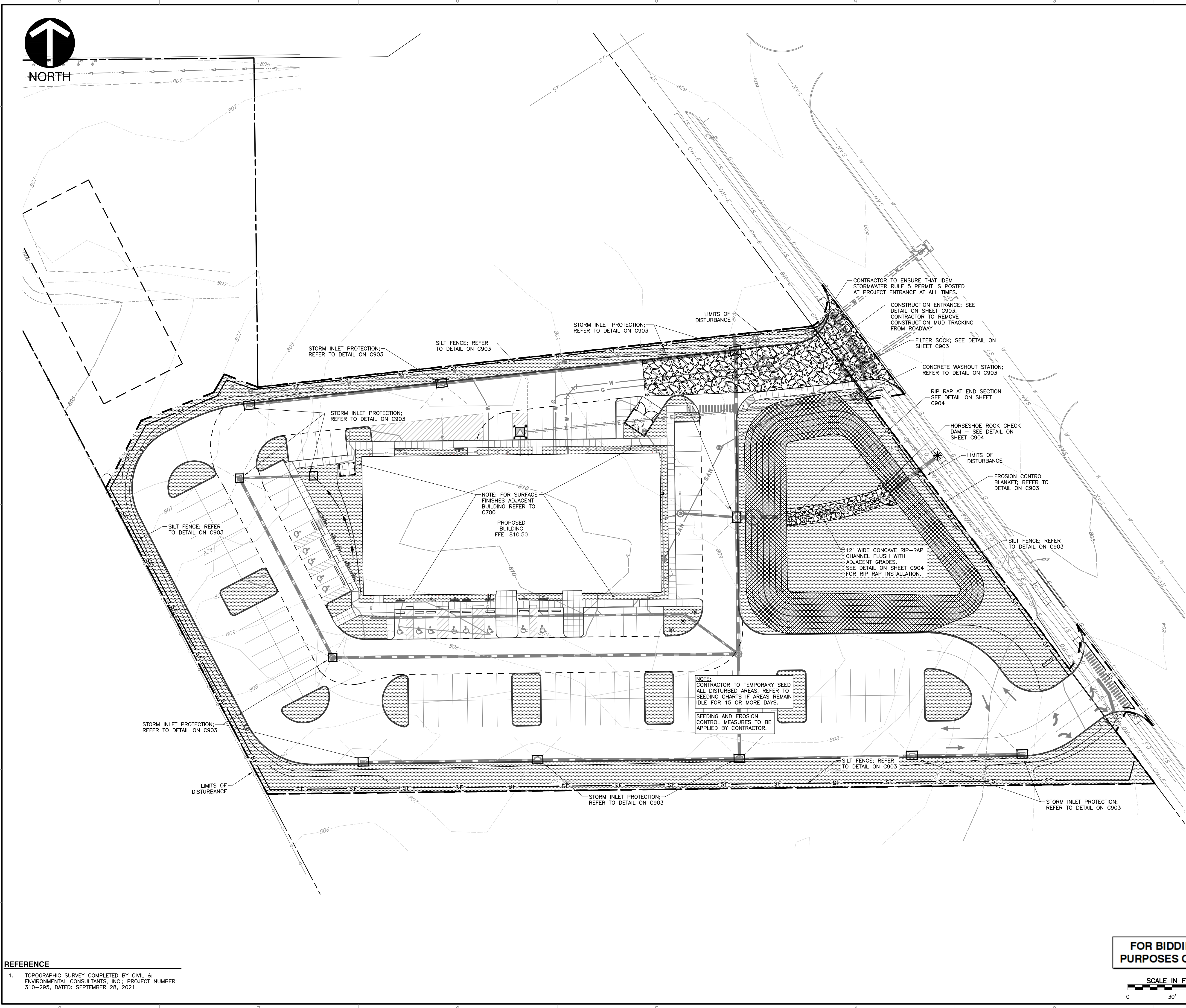
\* HAND SIGNATURE ON FILE

NICHOLAS P. JUSTICE  
REGISTERED  
No. PE11800753  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

*N. P. Justice* 12/21/2021



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- GENERAL EROSION CONTROL NOTES**
1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
  2. CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
  3. LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
  4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY. FOR LARGE PROJECTS, THIS SEEDING SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE COMPLETED.
  5. PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
  6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
  7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
  8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
  9. ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
  10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS.
  11. EROSION CONTROL TO COMPLY WITH INDIANA 327 IAC AND RULE #5, AND INDIANA STORMWATER QUALITY HANDBOOK.
  12. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
  13. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

- PROPOSED EROSION CONTROL LEGEND:**
- PROPOSED GRAVEL CONSTRUCTION ENTRANCE
  - EROSION CONTROL BLANKET
  - PERMANENT/TEMPORARY SEEDED AREAS
  - PROPOSED LIMITS OF DISTURBANCE
  - PROPOSED SILT FENCE
  - PROPOSED FILTER SOCK
  - PROPOSED INLET PROTECTION
  - PROPOSED CONCRETE WASHOUT

**REFERENCE**

1. TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

**FOR BIDDING PURPOSES ONLY**

SCALE IN FEET  
0 30' 60'



**PERMANENT STORMWATER POLLUTION PREVENTION PLAN**

DRAWING NO. **C901**  
SHEET 26 OF

**ARC DESIGN, P.C.**  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254

**PERMIT SET**

DATE: DECEMBER 21, 2021 | DRAWN BY: JCB  
DRAFT  
1" = 30' | CHECKED BY: 310-295  
PROJECT NO: 310-295  
APPROVED BY: DRAFT

REVISION RECORD	
NO.	DESCRIPTION

**Civil & Environmental Consultants, Inc.**  
530 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
PH: 317.655.7777 FAX: 317.655.7778

**arcDESIGN**  
architecture • interiors



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ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

(A1) PLAN INDEX

THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEET C900. THE CORRESPONDING EROSION CONTROL DETAILS ARE SHOWN ON SHEET C902. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) PLAN/PLAT SHOWING BOUNDARIES AND LOT NAMES

PLEASE REFER TO THE TOPOGRAPHIC SURVEY INCLUDED WITH THE SUBMITTAL.

(A3) PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A NEW OFFICE BUILDING AND ASSOCIATED PARKING AND INFRASTRUCTURE. THE SITE IS LOCATED BETWEEN LAFAYETTE RD AND I-65, PIKE TOWNSHIP, MARION COUNTY, INDIANA.

(A4) VICINITY MAP

THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A5) LEGAL DESCRIPTION

A LEGAL DESCRIPTION IS SHOWN ON THE ALTA SURVEY INCLUDED WITH THIS SET.

TOWNSHIP: 16N RANGE: 2E SECTION 12  
LONGITUDE: 85W 15' 39"  
LATITUDE: 39° N 51' 00"

(A6) LOT LOCATION AND SITE IMPROVEMENTS

THE PROJECT BOUNDARIES CAN BE SEEN ON SHEETS C200, AND C900.

(A7) HYDROLOGIC UNIT CODE

# 051020201120130

(A8) REQUIRED STATE OR FEDERAL WATER QUALITY PERMITS

NOT APPLICABLE.

(A9) STORMWATER DISCHARGE POINTS

STORM SEWER IN LAFAYETTE ROAD, FLOWING SOUTHEAST.

(A10) SITE WETLANDS, LAKES AND WATER COURSES

THERE ARE NO WETLANDS OR LAKES ON OR ADJACENT TO THE IMMEDIATE PROJECT BOUNDARY.

(A11) RECEIVING WATERS

THE SITE DRAINAGE TO THE PROPOSED STORM SEWER SYSTEM THEN TO EXISTING STORM SEWER INFRASTRUCTURE IN LAFAYETTE RD, FROM THE MUNICIPAL SYSTEM, THE RUNOFF TRAVELS TO FALCON CREEK, THEN DRY RUN, AND ULTIMATELY TO THE WHITE RIVER.

(A12) POTENTIAL DISCHARGES TO GROUNDWATER

THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT SITE OR DOWNSTREAM OF THE PROJECT SITE. THE DRY DETENTION POND HAS POTENTIAL TO DISCHARGE TO GROUNDWATER.

(A13) 100 YEAR FLOODPLAIN, FLOODWAYS AND FRINGES

THE PROJECT SITE DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN.

(A14) ESTIMATED PEAK DISCHARGE

THE APPLICABLE STORM WATER RUNOFF RATES ARE LISTED BELOW.

	PRE-DEVELOPED	POST-DEVELOPED
10-YEAR	0.80 CFS	0.80 CFS
100-YEAR	3.91 CFS	1.62 CFS

(A15) ADJACENT LANDUSE

THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: C1 (COMMERCIAL)  
WEST: DP  
SOUTH: C1 (COMMERCIAL)  
EAST: D2 (DWELLING)

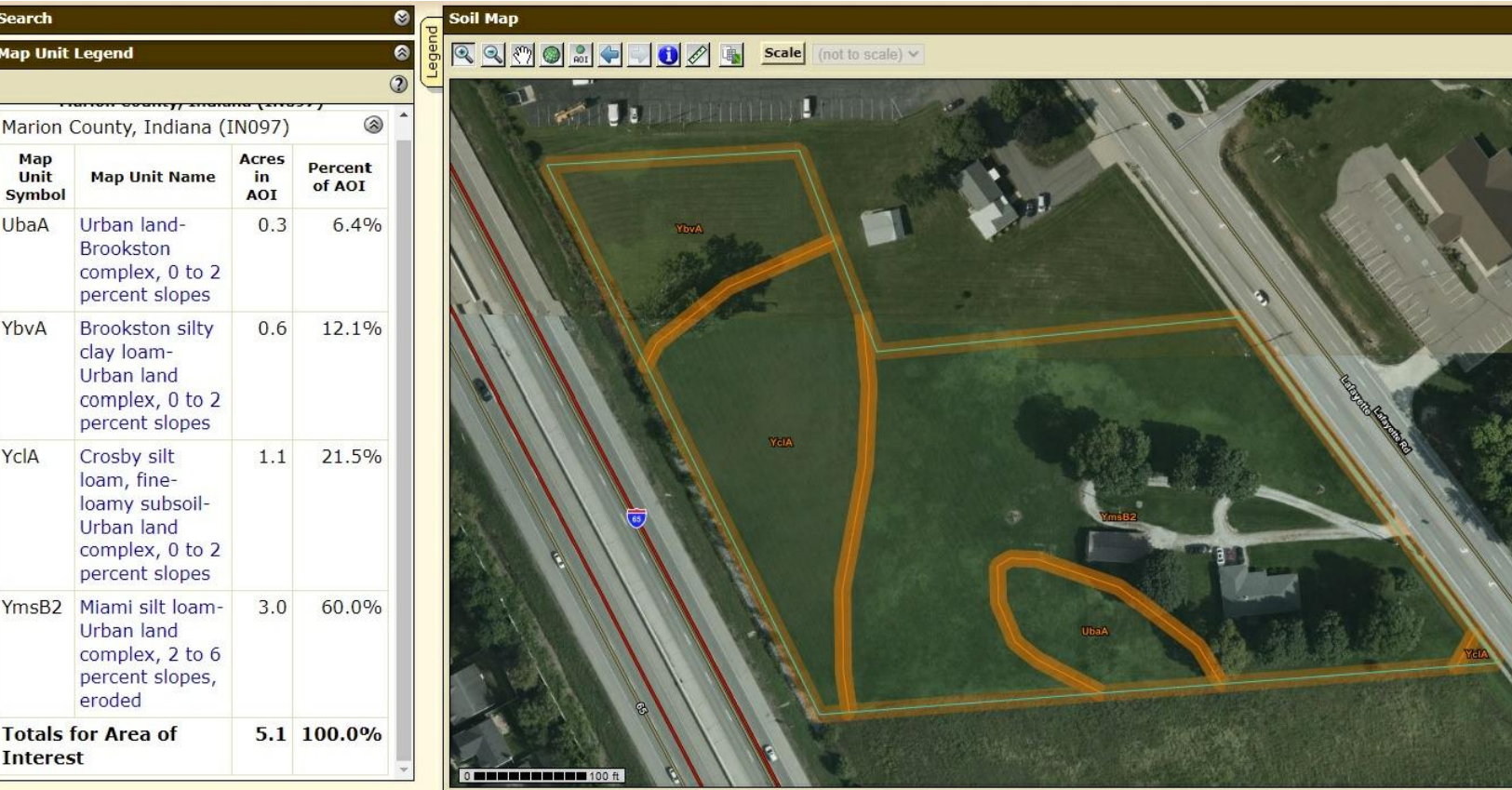
(A16) CONSTRUCTION LIMITS

THE OVERALL DISTURBED AREA IS APPROXIMATELY ±3.80 ACRES FOR THE LUINA PROJECT. THE OUTPARCEL TO BE USED FOR FUTURE DEVELOPMENT ACCOUNTS FOR 1.59 ACRES OF DISTURBANCE. REFER TO SHEET C900 FOR BOUNDARY.

(A17) EXISTING VEGETATIVE COVER

THE EXISTING SITE CONSISTS OF 2 SMALL BUILDINGS WITH A PAVED LOOP DRIVEWAY.

(A18) SOIL MAP



(A19) LOCATION OF PROPOSED STORMWATER SYSTEMS

REFER TO SITE DRAINAGE PLAN SHEET C400.

(A20) OFF-SITE CONSTRUCTION PLAN

RIGHT-OF-WAY RESURFACING AND DETENTION POND OUTLET PIPE.

(A21) SOIL STOCKPILE, BORROW AND/OR DISPOSAL

NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT.

(A22 & A23) EXISTING & FINAL SITE TOPOGRAPHY

REFER TO EXISTING TOPOGRAPHIC SURVEY, AND SITE GRADING PLAN SHEET C300.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION COMPONENT (SECTION B)

(B1) POTENTIAL CONSTRUCTION POLLUTANTS

POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE, BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLES/EQUIPMENT. POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI-FREEZE AND FERTILIZER.

REFERENCE

- TOPOGRAPHIC SURVEY COMPLETED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.; PROJECT NUMBER: 310-295, DATED: SEPTEMBER 28, 2021.

(B2) STORMWATER QUALITY SEQUENCE

PRE-CONSTRUCTION ACTIVITIES:

- SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF INDIANAPOLIS DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES.
- DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH 1/2" RAIN AND A MINIMUM OF ONCE EACH WEEK.
- CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1-800-382-5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES- MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.
- ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND RULE 5 NOI AND RULE 5 INSPECTION DOCUMENTATION.
- INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS- ADD ADDITIONAL STONE AS NEEDED.
- ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

- AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN EARTHWORK OPERATIONS- ROUGH GRADING. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN 15 DAYS.
- CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.
- STRIP TOPSOIL AND STOCKPILE. START MASS GRADING OF PROPOSED DETENTION POND, AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.
- INSTALL THE PROPOSED DETENTION POND SPILLWAY AND OTHER SAFETY MEASURES AND PLANTINGS AS INDICATED ON PLANS.
- START BUILDING FOUNDATIONS.
- INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.
- INSTALL CONCRETE CURBS, PAVEMENT AREAS AND WALKS AS INDICATED ON PLANS.
- PLACE TOPSOIL IN ALL TURF, AND LANDSCAPE AREAS.
- INSTALL FINAL PAVEMENT AND FINAL GRADE AREA.
- INSTALL LANDSCAPING AND FINAL SEEDING.
- REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.
- NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 15 DAYS OR MORE.

(B3) CONSTRUCTION ENTRANCE INFORMATION

THE LOCATION OF THE CONSTRUCTION ENTRANCE IS ON SHEET C900.

(B4) SHEET FLOW SEDIMENT CONTROL

FILTER SOCK, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED AS EROSION CONTROL MEASURES FOR SHEET FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900-C904.

(B5) CONCENTRATED FLOW SEDIMENT CONTROL

EROSION CONTROL BLANKET, AND RIP RAP APRONS WILL BE USED AS EROSION CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900-C904.

(B6) INLET PROTECTION LOCATIONS AND SPECS

INLET PROTECTION WILL BE PLACED AT ALL INLETS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR INLET PROTECTION MEASURES ARE ON SHEETS C900-C904.

(B7) RUNOFF CONTROL MEASURES

FILTER SOCK, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED TO CONTROL RUN OFF. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900-C904.

(B8) OUTLET PROTECTION SPECIFICATIONS

REFER TO PLANS FOR THE LOCATION, DETAILS, AND SPECIFICATIONS FOR OUTLET PROTECTION- SHEETS C900-C904.

(B9) GRADE STABILIZATION MEASURES

EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 3:1 AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR LOCATIONS.

(B10) STORMWATER QUALITY DETAILS

REFER TO CONSTRUCTION PLANS FOR LOCATION, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS FOR EACH STORMWATER QUALITY MEASURE.

(B11) TEMPORARY SURFACE STABILIZATION

TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS TEMPORARY SURFACE STABILIZATION MEASURES. REFER TO SHEETS C900 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS. REFER TO SEEDING TABLES ON SHEET C904.

- SELECT APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE ON SHEET C904. APPLY SEED UNIFORMLY.
- INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- USE PHOSPHOROUS FREE FERTILIZER (12-0-12) UNLESS SOIL TESTING SHOWS A NEED.

(B12) PERMANENT SURFACE STABILIZATION

PERMANENT SEEDING WILL BE USED AS PERMANENT SURFACE STABILIZATION MEASURES. REFER TO SHEET C901 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS. REFER TO SEEDING TABLES ON SHEET C904.

- SELECT APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE ON SHEET C904. APPLY SEED UNIFORMLY.
- INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- USE PHOSPHOROUS FREE FERTILIZER (12-0-12) UNLESS SOIL TESTING SHOWS A NEED.

(B13) MATERIAL HANDLING AND SPILL PREVENTION

Expected materials that may appear at the site due to construction activities include, but are not limited to petroleum products, fertilizers, paint and solvents, and concrete. Materials shall be stored in the designated material storage area.

Spill prevention for vehicle and equipment fueling shall conform to the following practices: vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures. Limitations: Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with a Stabilized Construction Entrance/Exit. Implementation: Use offsite fueling stations as much as possible. Discourage "topping-off" of fuel tanks. Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use. Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area. Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly. Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. Train employees and subcontractors in proper fueling and cleanup procedures. Dedicated fueling areas should be protected from stormwater runoff and should be located at least 50 ft away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas. Protect fueling areas with berms and dikes to prevent runoff, runoff, and to contain spills. Fueling used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended. Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site. Keep ample supplies of spill cleanup materials onsite. Immediately clean up spills and properly dispose of contaminated soils.

Spill prevention for solid waste shall conform to the following practices: Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, training employees and subcontractors. Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures, and building construction. Packaging materials including wood, paper, and plastic. Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products. Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes. Construction wastes including brick, mortar, lumber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, Styrofoam and other package construction materials. Select designated waste collection areas onsite. Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight. Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy. Plan for additional containers and more frequent pickup during the demolition phase of construction. Collect site trash daily, especially during rainy and windy conditions. Remove this solid waste promptly since erosion and sediment control devices tend to collect litter. Make sure that toxic liquid wastes (used oils, solvents and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for construction debris. Do not hose out dumpsters on the construction site. Clean dumpsters before leaving contractor. Arrange for regular waste collection before containers overflow. Clean up immediately if a container does spill. Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located at least 50 ft from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding. Inspect construction waste area regularly. Arrange for regular waste collection.

Spill prevention for concrete washout shall conform to the following practices: Store dry and wet materials under cover, away from drainage areas. Avoid mixing excess amounts of fresh concrete. Perform washout of concrete trucks offsite in designated areas only. Do not wash out concrete trucks into storm drains, open ditches, streets, or streams. Do not allow excess concrete to be dumped onsite, except in designated areas. Locate washout areas at least 50 ft from storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly. Avoid creating runoff by draining water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate. Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

The cleanup parameters shall conform to the following practices: The developer shall be continually kept informed, maintain lists of qualified contractors and available Vac-trucks, tank pumpers and other equipment readily accessible for cleanup operations. In addition, a continually updated list of available absorbent materials and cleanup supplies should be kept on site. All maintenance personnel will be made aware of techniques for prevention of spills. They will be informed of the requirements and procedures outlined in this plan. They will be kept abreast of current developments or new information on the prevention of spills and / or necessary attention to this plan. When spills occur which could endanger human life and this become primary concern, the discharge of the life saving protection function will be carried out by the local police and fire departments. Absorbent materials, which are used in cleaning up, will be disposed of in a manner subject to the approval of the Indiana Department of Environmental Management. Flushing of spilled material with water will not be permitted unless so authorized by the Indiana Department of Environmental Management.

Spill prevention for vehicle and equipment maintenance shall conform to the following practices: Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately. These procedures are suitable on all construction projects where an onsite yard area is necessary for storage and maintenance of heavy equipment and vehicles. Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles / equipment offsite should be done in conjunction with a stabilized construction entrance / exit. Out door vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (engine fluid leaks). If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runoff and runoff, and should be located at least 50 ft from downstream drainage facilities and water courses. Drip pans or absorbent pads should be used during vehicle and equipment maintenance. The maintenance work is performed over an impermeable surface in a dedicated maintenance area. Place a stockpile of spill cleanup materials where it will be readily accessible. All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices. Use absorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly. Inspect onsite vehicles and equipment daily at startup for leaks, and repair immediately. Keep vehicles and equipment clean; do not allow excessive buildup of oil and grease. Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite. Train employees and subcontractors in proper maintenance and spill cleanup procedures. Drip pans or plastic sheeting should be placed under all vehicles and equipment placed on docks, barge, other structures over water bodies when the vehicle or equipment is planned to be idle for more than 1 hour. Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Properly dispose of or recycle used batteries. Do not place used oil in a dumpster or pour into a storm drain or water course. Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Do not bury tires. Repair leaks of fluids and oil immediately.

Spill prevention for fertilizers shall conform to the following practices: Fertilizer's used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Spill prevention for paint and solvents shall conform to the following practices: All containers will be tightly sealed and stored when not required for use. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM but will be properly disposed of according to manufacturers' instructions or State or local regulations.

Spill prevention for portable toilets shall conform to the following practice: All portable toilets must be anchored to prevent spills.

Spill prevention and cleanup shall conform to IDEM form 327 IAC 2-6 and the City of Indianapolis Fire Department shall be contacted in the case of a material spill occurring.

City of Indianapolis Fire Department: (317) 327-3811  
City of Indianapolis Police Department: (317) 327-6041  
Marion County Soil & Water District: (317) 786-1776  
IDEM Emergency Spill Reporting: (317) 233-7745 or (888) 233-7745

(B14) MONITORING AND MAINTENANCE GUIDELINES

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
FILTER SOCK	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO STOCK UPDATES
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL BLANKET	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
SEED, SOIL & LANDSCAPE AROUND	WATER AS NEEDED	AFTER FINISHED GRADING
CONCRETE WASHOUT	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ALL EARTHWORK ACTIVITIES PRIOR TO START OF ANY CONCRETE WORK
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF FILTER SOCKS	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

\* - SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
- AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOPDRESS WITH CLEAN STONE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
- REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
- INSPECT EACH EROSION CONTROL BLANKET AREAS WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
- CHECK FOR DISPLACEMENT OF BLANKET.
- AREAS DISPLACED, PULL BACK PORTION OF BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA. REPLACE AND STAPLE BLANKET.

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS (cont.)

CONCRETE WASHOUT MAINTENANCE REQUIREMENTS:

- INSPECT EACH CONCRETE WASHOUT AREAS DAILY AND AFTER STORM EVENTS OR HEAVY USE.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE, CHECK FOR LEAKS, SPILLS OR TRACKING OF SOIL BY EQUIPMENT.
- REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEMS REACHES 50% OF THE DESIGN CAPACITY. UPON REMOVAL, INSPECT STRUCTURE. REPAIR AS NEEDED.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER.
- REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.

INLET PROTECTION MAINTENANCE REQUIREMENTS:

- INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
- INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.
- REMOVE ANY SEDIMENT. AVOID DAMAGING OR UNDERCUTTING FABRIC.

(B15) EROSION CONTROL SPECIFICATIONS FOR INDIVIDUAL LOTS

NO ADDITIONAL EROSION CONTROL SPECIFICATIONS ARE NEEDED FOR THIS PHASE.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN COMPONENT (SECTION C)

(C1) POTENTIAL LANDUSE POLLUTANTS

POTENTIAL POLLUTANT SOURCES THAT MAY APPEAR AT THE SITE DUE TO PROPOSED LAND USE ACTIVITIES, BUT ARE NOT LIMITED TO VEHICLES, EXPOSED SOIL AND TRASH, POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO OIL, GREASE, DIESEL FUEL, GASOLINE, ANTI-FREEZE, AUTO SOAP AND FERTILIZER.

(C2) STORMWATER QUALITY IMPLEMENTATION

THE STORMWATER QUALITY MEASURE IMPLEMENTATION SHALL BE BEGIN AFTER SUBSTANTIAL COMPLETION OF THE CONSTRUCTION ACTIVITIES FOR THE PROPOSED PROJECT. FOLLOWING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED UNTIL ALL PERMANENT EROSION CONTROL MEASURES, AND VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION, INCLUDING LANDSCAPING, IS COMPLETE.

INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING SEEDING AND AFTER SUFFICIENT VEGETATION HAS BEEN ESTABLISHED IN AN AREA TO PREVENT SILT AND SOIL EROSION INTO THE STORM SEWER SYSTEM.

INSPECTION AND MAINTENANCE OF LANDSCAPE AREAS AND INFRASTRUCTURE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER/OWNER AND OR LOCAL AGENCIES TAKING JURISDICTION OVER THE INFRASTRUCTURE IMPROVEMENTS.

(C3) POST CONSTRUCTION STORMWATER QUALITY DESCRIPTION MEASURES:

POST CONSTRUCTION STORMWATER QUALITY MEASURES TO AID IN REDUCING THE AMOUNT OF POLLUTANTS:

- POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL CONSIST OF VEGETATIVE COVER ON THE PERMANENT GRASS AREAS AND EROSION CONTROL BLANKETS IN SPECIFIED AREAS. BOTH THE VEGETATIVE COVER AND EROSION CONTROL BLANKETS ARE INTENDED TO STABILIZE THE DISTURBED AREAS AND TO SERVE AS A SEDIMENT TRAP FOR FINER PARTICLES WITHIN THE STORM SEWER SYSTEM. THE DRY DETENTION POND WILL ALLOW SEDIMENT PARTICLES TO SETTLE, WHILE THE SCREENS ON THE OUTLET CONTROL STRUCTURE WILL CATCH ANY LEAVES OR LARGE FLOATABLE DEBRIS.
- THE USE OF INLETS WITHIN THE STORM SEWER SYSTEM HAS BEEN UTILIZED. MAINTENANCE OF THE INLETS WILL BE THE RESPONSIBILITY OF THE OWNER AND/OR AGENCY TAKING JURISDICTION OVER THE STORM SEWER INFRASTRUCTURE IMPROVEMENTS.
- ALTHOUGH NOT CURRENTLY A PART OF THE PROPOSED SYSTEM, THE OWNER SHOULD BE AWARE THAT IF AN EXCESS OF POLLUTANTS IS DETERMINED TO BE FOUND LEAVING THE SITE, ADDITIONAL MEASURES MAY BE REQUIRED IN THE FUTURE TO FURTHER REDUCE THE AMOUNT OF FINES AND PETROLEUM PRODUCTS.
- A MECHANICAL BMP STRUCTURE AQUA-SWIRL XC-9 IS PROPOSED FOR THIS PROJECT. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL.

(C4) LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

THE STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. WATER QUALITY FEATURES INCLUDE THE MECHANICAL STORMWATER QUALITY UNIT, DRY DETENTION POND, AND ANY GRASSED SWALES. REFER TO SHEETS C900-C904 FOR REQUIRED INFORMATION ABOUT EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE, REFER TO SHEET C400 FOR STORM SEWER IMPROVEMENTS INTENDED TO SERVE THE POST CONSTRUCTED AREA. DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS FOR THESE STORMWATER QUALITY MEASURES ARE INCLUDED WITHIN THE AFOREMENTIONED SERIES OF CONSTRUCTION DOCUMENTS.

(C5) POST CONSTRUCTION MAINTENANCE GUIDELINES

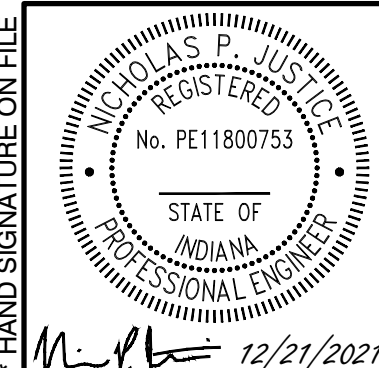
OWNER WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS DESCRIBED BELOW.

- ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED AND DISPOSED PROPERLY.
- GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOWING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED AREAS.
- EXCESS SEDIMENT WILL BE REMOVED FROM THE DRY DETENTION POND WHEN REGULAR MAINTENANCE ACTIVITIES OCCUR. THE OUTLET CONTROL STRUCTURE GRATES MUST BE CLEARED OF SEDIMENT AND DEBRIS, ESPECIALLY AFTER STATISTICALLY LARGE RAIN EVENTS.
- DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASINS SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- A MECHANICAL BMP STRUCTURE AQUA-SWIRL XC-9 IS PROPOSED FOR THIS PROJECT. THE OWNER SHALL INSPECT THE SYSTEM ON AT LEAST A MONTHLY BASIS. MORE FREQUENT INSPECTIONS MAY NEED TO TAKE PLACE DURING PERIODS OF HEAVY RAINFALL. THE BMP SHOULD BE INSPECTED FOR FLOATABLE DEBRIS AND FROM ACCUMULATED SEDIMENT. ANY EXCESS SEDIMENT SHOULD BE REMOVED OR IN A PROPER LOCATION SO THAT THE DEBRIS DOES NOT ENTER INTO THE DOWNSLOPE STORMWATER SYSTEM. ALL MAINTENANCE REQUIREMENTS ARE THE RESPONSIBILITY OF THE OWNER. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL.

EROSION CONTROL RESPONSIBLE PERSON

THE PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL IS LISTED BELOW.

CONTRACTOR:  
HANNIG CONSTRUCTION, INC.  
CONTACT: JASON JONES  
815 SWAN STREET  
TERRE HAUTE, IN 47807  
PHONE: 812-235-6218  
FAX: 812-235-1218  
EMAIL: JJONES@HANNIGCONSTRUCTION.COM



PERMIT SET

STORMWATER POLLUTION PREVENTION PLAN NOTES

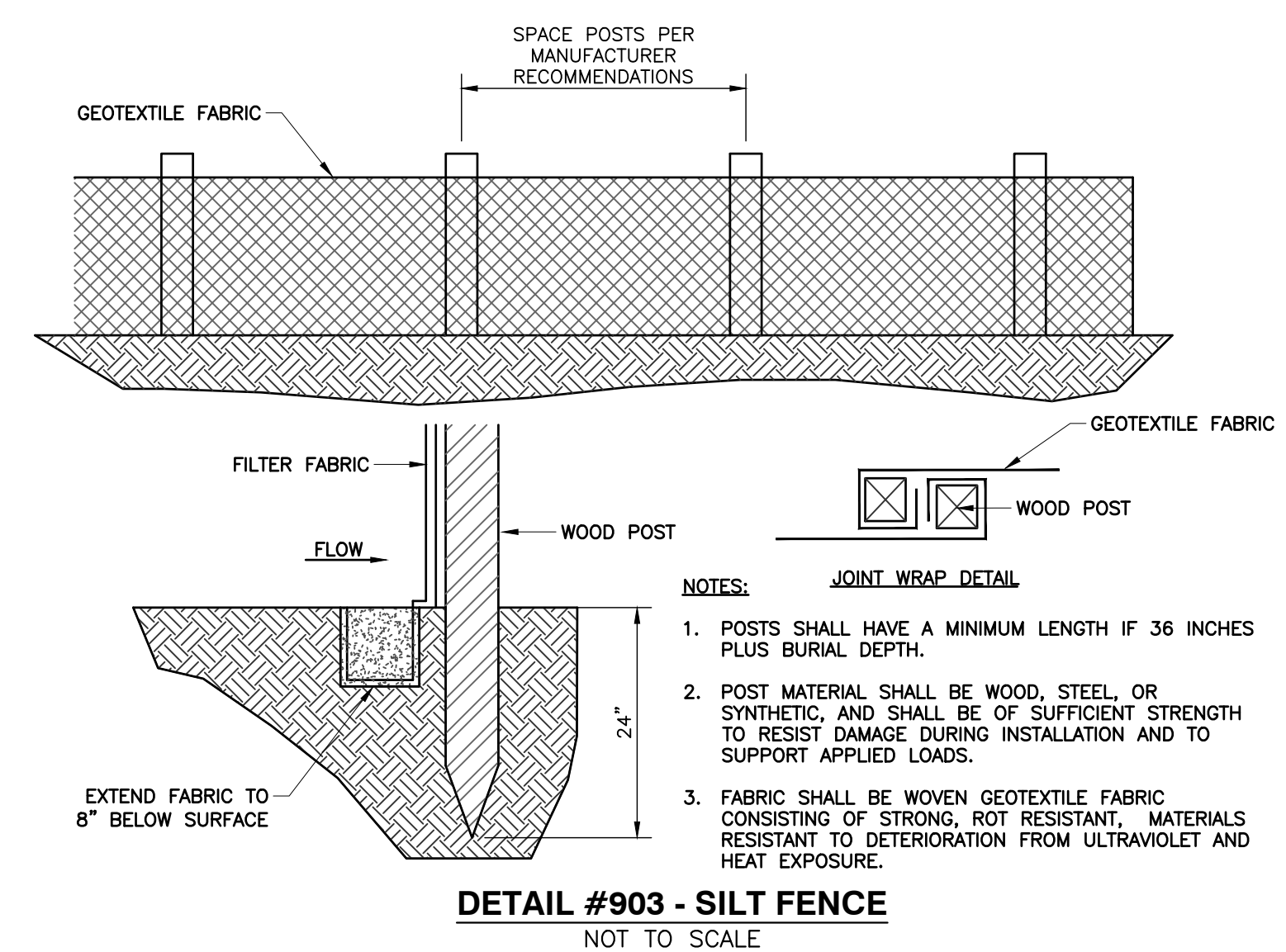
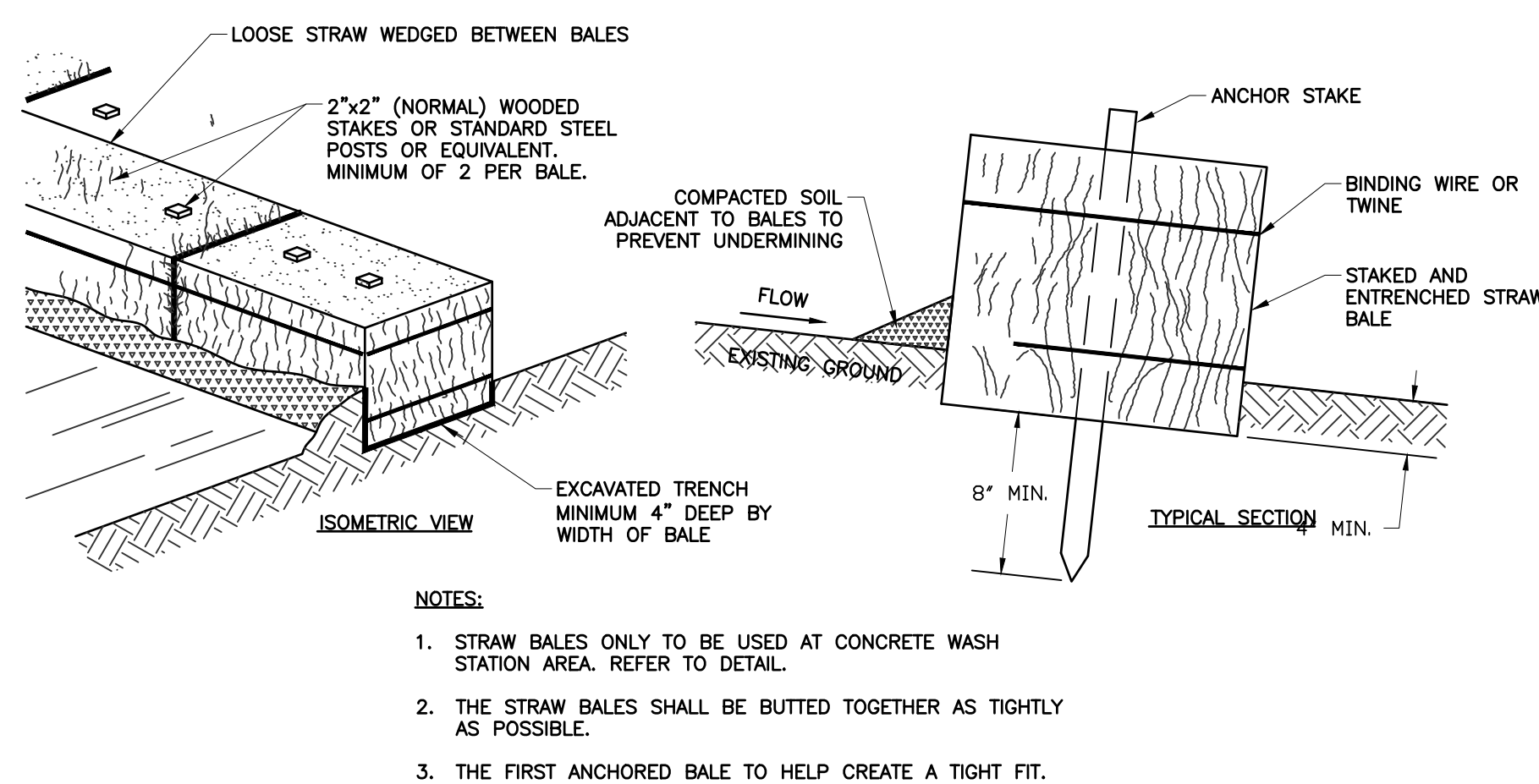
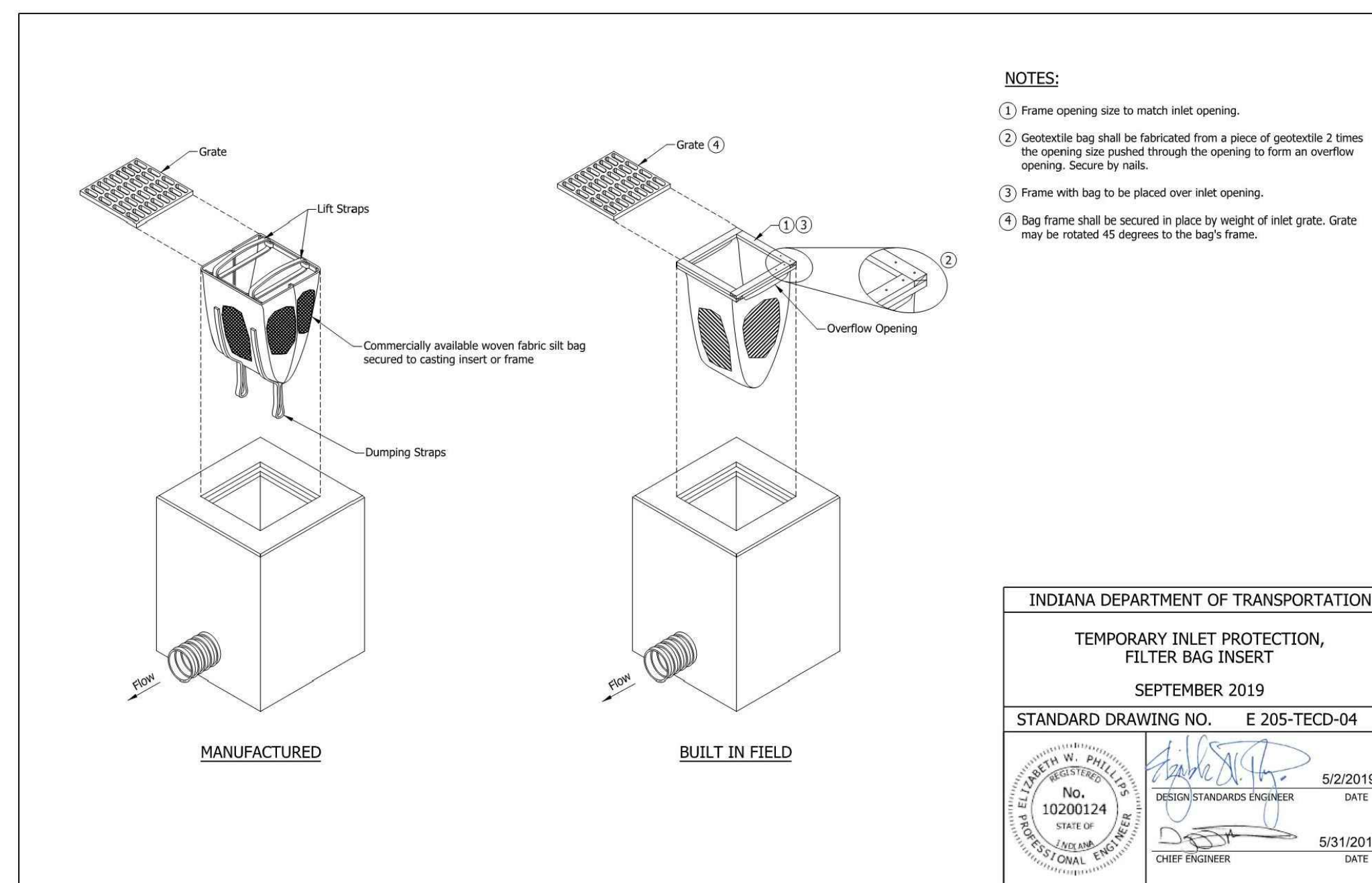
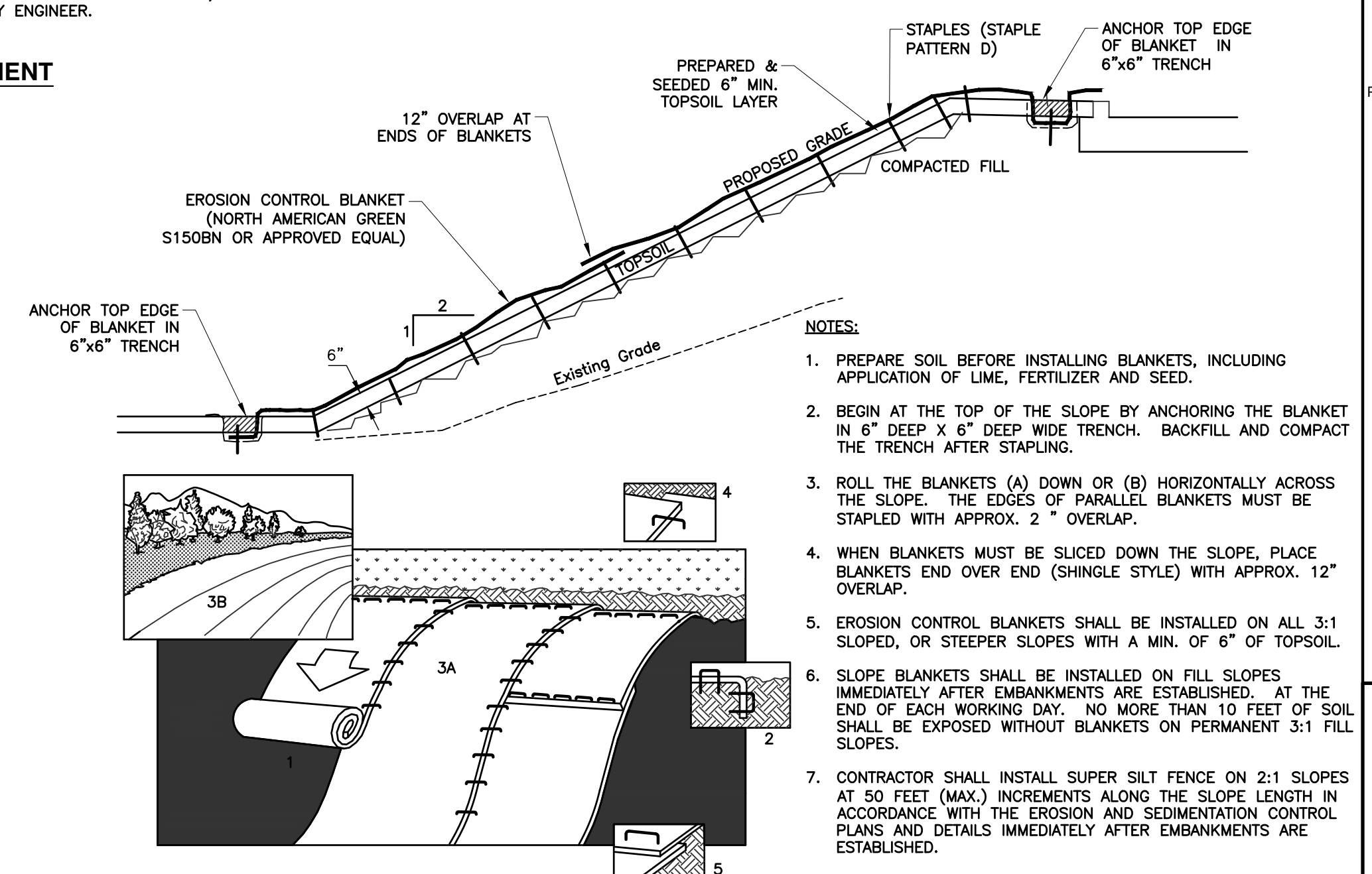
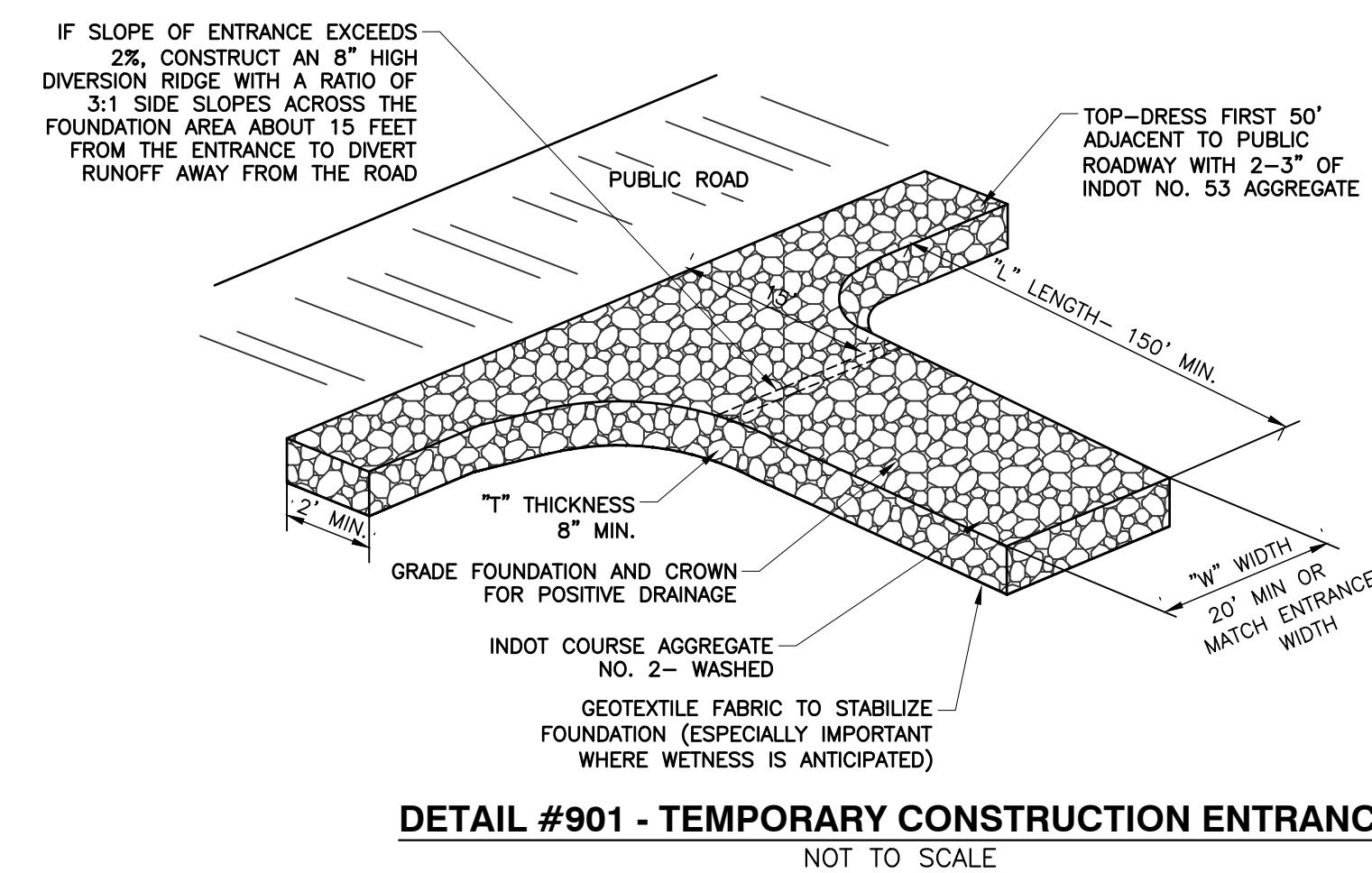
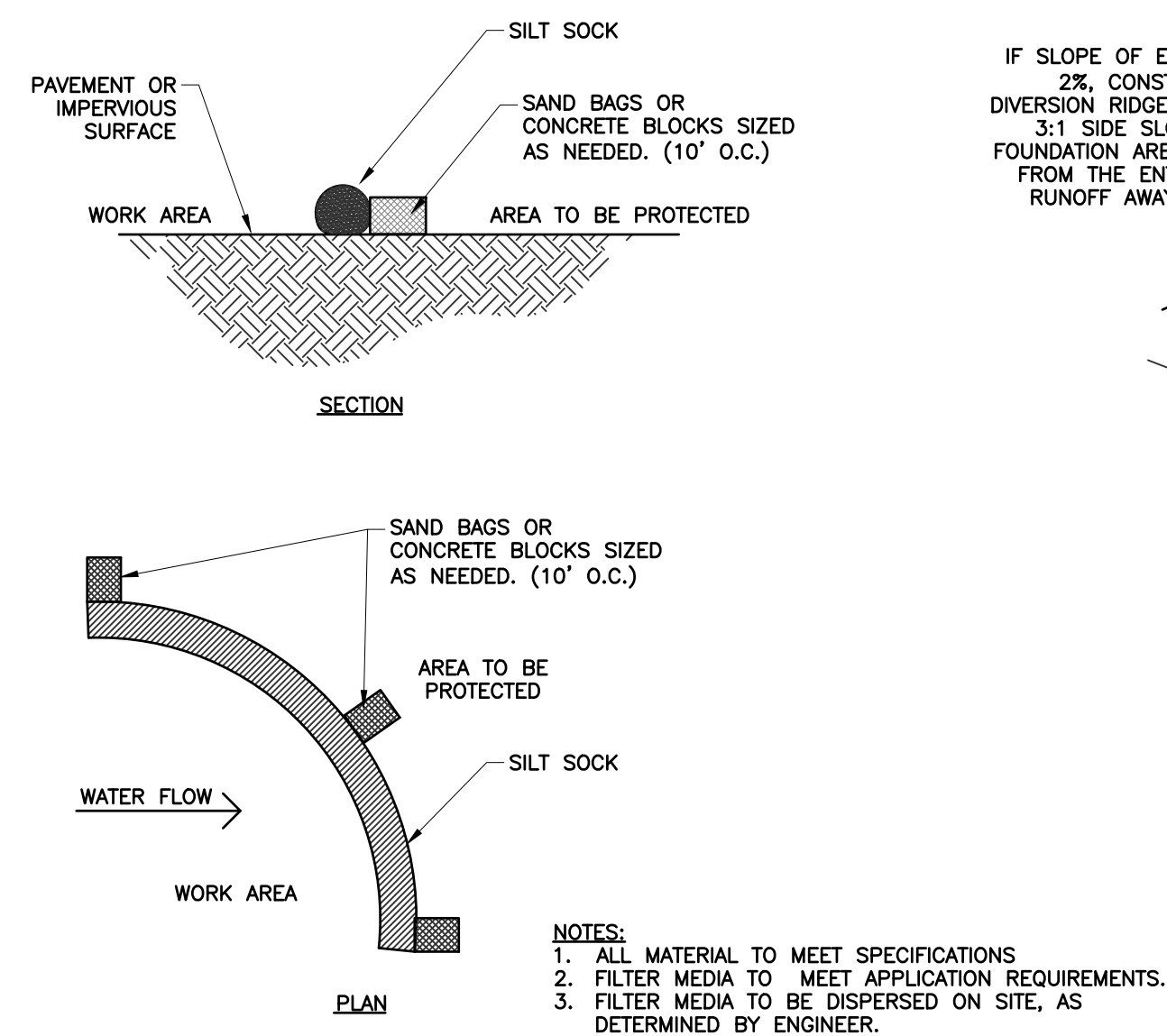
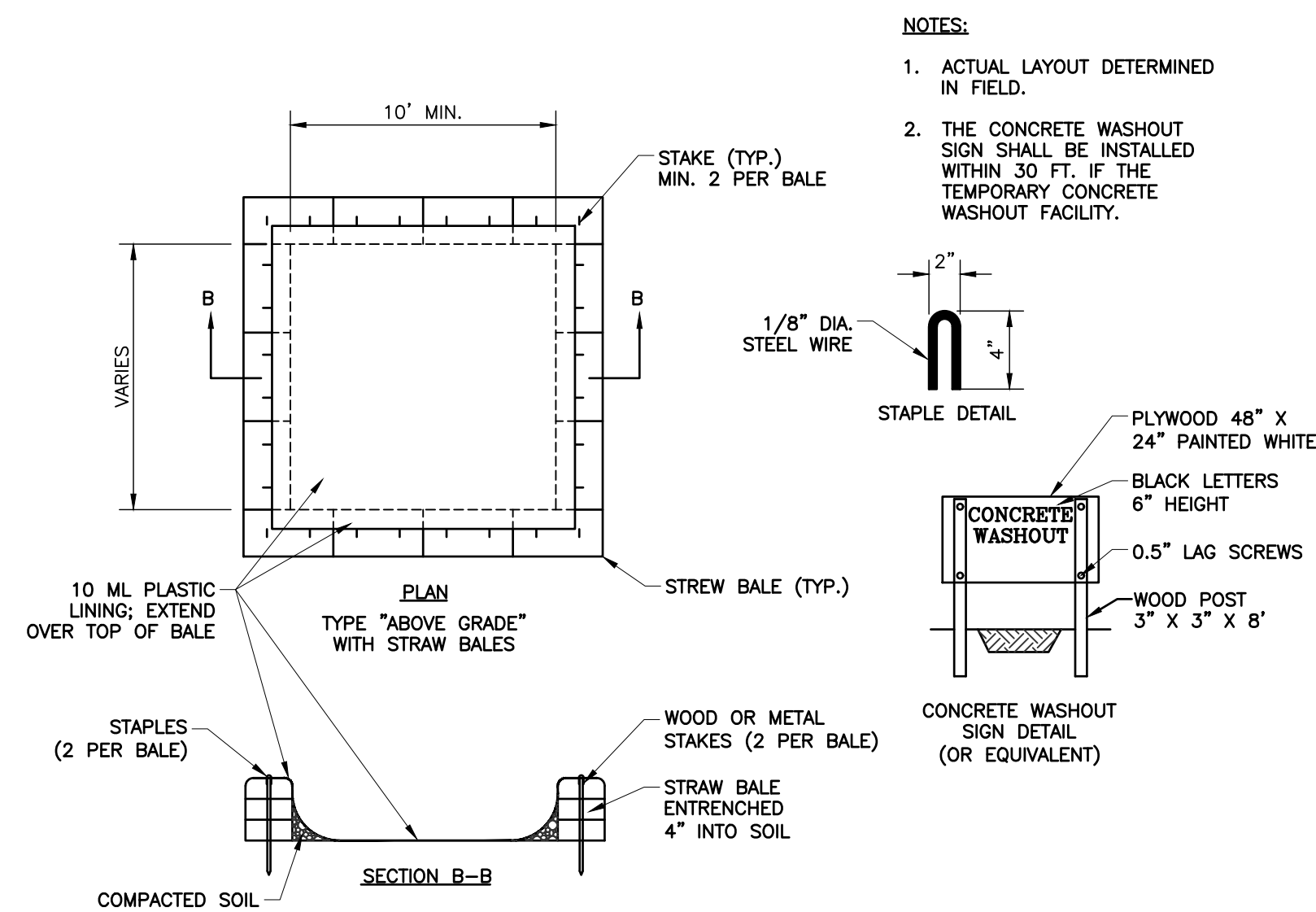
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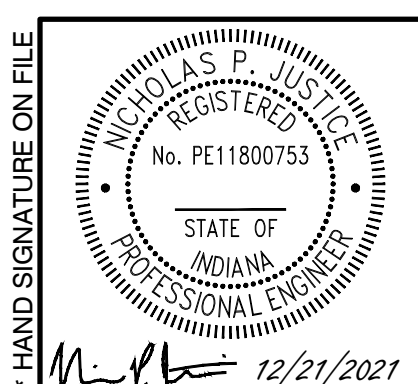
SHEET 27 OF

DATE:	DRAWN BY:	CHECKED BY:	APPROVED BY:
DECEMBER 21, 2021	JOB	DRAFT	DRAFT
DWG SCALE:	1" = 30'	PROJECT NO:	310-295





**FOR BIDDING  
PURPOSES ONLY**

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**Civil & Environmental  
Consultants, Inc.**  
630 EAST OHIO STREET, SUITE G  
INDIANAPOLIS, INDIANA 46024  
P: 317.655.7777 FAX: 317.655.7778

arc DESIGN  
architecture + interiors

**ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254**

PERMIT SET

## STORMWATER POLLUTION PREVENTION PLAN DETAILS

DRAWING NO.:

## C903

PAGE 28 OF 30



**ARC DESIGN, P.C.  
LIUNA LOCAL 120  
5430 LAFAYETTE ROAD  
INDIANAPOLIS, INDIANA 46254**



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FOUNDATIONS

1. Proofslab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the specifications. Proofrolling operations shall be monitored by the Geotechnical Testing Agency.
2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 95% of the Modified Proctor maximum dry density (ASTM D-1557). All fill which shall be stressed by foundation loads shall be approved granular materials compacted to a dry density of at least 95% (ASTM D-1557). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation. Compaction shall be accomplished by placing fill in approximately 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area for each lift as necessary to insure adequate compaction is being achieved.
3. Column footings and wall footings to bear on firm natural soils or well-compacted engineered fill with allowable bearing pressures of 2,000 PSF for column and wall footings, as outlined in the Subsurface Investigation Report.
4. It is essential that the foundations be inspected to insure that all loose, soft, or otherwise undesirable material (such as organics, existing underground fill, etc.) is removed and that the foundations will bear on satisfactory material. The Geotechnical Testing Agency shall inspect the subgrade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities. The Geotechnical Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete.
5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain, or freezing.
6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.
7. The Contractor shall locate the entire building and field verify all dimensions prior to excavation.
8. For information regarding subsurface conditions, refer to the Subsurface Investigation & Foundation Recommendations report prepared by A&J Vitzy Engineering, Inc. A & W Project No. 219N023, dated December 21, 2021.

PRE-ENGINEERED METAL BUILDING (PEMB) NOTES

1. The entire PEMB system shall be designed by the PEMB Manufacturer in conformance with the provisions of the 2014 Indiana Building Code and the "Low Rise Building Systems Manual" as published by the Metal Building Manufacturers Association. Where these criteria conflict, the more stringent criteria shall apply.
2. It is the responsibility of the PEMB Manufacturer to design the complete building system, including main frame members, anchor rods, purlins, girts, lateral force resisting system's connections, roofing, wall panel, flashing, components, attachments, etc. The Manufacturer shall submit certification in the form of a letter bearing the seal of a Professional Engineer registered in the state of Indiana stating that the building system design meets the indicated code, performance and loading requirements.
3. The PEMB Manufacturer shall be certified by the American Institute of Steel Construction (AISC), Category MB.
4. The foundation design is based upon information as provided by Geoco Buildings. The Contractor shall be responsible for coordination of any revisions required as a result of a change in the PEMB Manufacturer, including the redesign of foundations.
5. The size, number and pattern of all anchors bolts shall be determined by the PEMB Manufacturer. Anchor rod embedments are indicated on the foundation drawings.
6. The PEMB Manufacturer shall submit the anchor bolt requirement and foundation reactions prior to submittal of the balance of the building shop drawings so as not to delay the work. Should the PEMB Manufacturer make any changes in the anchor rod configuration, base plate sizing, foundation reactions, etc. after submittal and review of anchor rod submittal, they must be communicated to all parties and explicitly noted on future submittals. The PEMB Manufacturer shall bear the cost for any changes necessary to the foundations based on changes made to the anchor rods sizes or patterns, base plate sizing, foundation reactions, etc. during preparation of the balance of the building design.
7. The Contractor shall submit shop drawings of the entire PEMB system for review. The Contractor shall also submit a complete structural design analysis of the building (for recording purposes only). All shop drawing and calculation submittals shall bear the seal of a Professional Engineer registered in the state of Indiana.
8. The PEMB Manufacturer must use the same grid identification as those used on the Contract Documents.
9. Design criteria and loading to be used in the design of the PEMB shall match those listed in the "Design Load Criteria" section of the structural report. Coordinate the location and magnitude of loads for mechanical equipment and electrical fixtures with the Mechanical Contractor. Coordinate the loads of suspended equipment, fixtures, bulkheads, operable partitions, etc. with the Architectural Drawings.
10. Calculations for frame deflections (drift) shall be performed using only the Base Frame Method. Reductions based on engineering judgement using the assumed composite stiffness of the building envelope are not permitted.
11. The PEMB Manufacturer shall provide all girts, purlins, save studs, and other components required for a complete system. All wall systems, such as steel studs, curtain walls, storefronts, etc. shall be properly supported by the PEMB system. Allowable deflections of components shall not exceed the following:
  - A) Primary Framing - no ceilings\* L/150 for Roof Snow Load + Collateral Load
  - B) Primary Framing with suspended Acoustical Ceilings L/240 for Roof Snow Load + Collateral Load
  - C) Secondary Framing - no ceilings\* L/150 for Dead Load + Roof Snow Load + Collateral Load
  - D) Secondary Framing with suspended Acoustical Ceilings L/240 for Roof Snow Load + Collateral Load
  - E) Wall Girts w/ Flexible Cladding L/150
  - F) Wall Girts w/ Brittle Cladding L/600
  - G) Wind Beams - Flexible Cladding L/240
  - H) Wind Beams - Brittle Cladding L/400
  - I) Wind Columns - Flexible Cladding L/240
  - J) Wind Columns - Brittle Cladding L/400
12. L denotes the span of the element between supports.  
For 10-year wind values, use 75% of the 50-year wind pressure.  
\* The PEMB Manufacturer must check ponding for low-slope applications.
13. The PEMB shall be designed to resist lateral loads as follows:
  - A. Interior Frame Lines Rigid Frames with Pinned Bases
  - B. Endwall Frame Lines Bearing Endwalls with Diagonal Rod or Cable Bracing
  - C. Expandable Endwall Frame Lines Full-Load Rigid Frame w/ Pinned Bases & Removable Wind Columns
  - D. Sidewalls Parallel to Eaves Diagonal Rod or Cable BracingWhere endwall bracing is not feasible, provide horizontal bracing in place of roof to distribute lateral load to the original rigid frame line. Fixed base columns and portal frames are not permitted, unless shown otherwise on the Contract Documents.
14. The PEMB Erector shall provide all temporary guying and bracing as required.
15. Unless otherwise specified or noted, all steel members shall be cleaned and painted in accordance with Manufacturer's standard procedures. Paint color for both primary and secondary steel shall match.
16. When modifications are proposed to PEMB members or elements under the design and certification of the PEMB Manufacturer, written authorization by the PEMB's Specialty Structural Engineer must be obtained and submitted to the Structural Engineer of Record for review prior to performing the proposed modification.

SPECIALTY STRUCTURAL ENGINEERING (SSE)

1. A Specialty Structural Engineer is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record, who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific specialty.
2. It is the Specialty Structural Engineer's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
3. It is the intent of the Drawings and Specifications to provide sufficient information for the Specialty Structural Engineer (SSE) to perform his design and analysis. If the SSE determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the SSE shall in a timely manner, contact the Structural Engineer of Record for resolution of conflicts.
4. The Specialty Structural Engineer (SSE) shall forward documents to the Structural Engineer of Record for review. Such documents shall bear the stamp of the SSE and include:
  - A) Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
  - B) Calculations.
  - C) Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the Specialty Engineer as an indication that said engineer has accepted responsibility for the results.
5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Structural Engineering. Examples of components requiring Specialty Structural Engineering include, but are not limited to the following:
  - A) Pre-Engineering Metal Building Systems.
  - B) Cold-Formed Steel Framing.
6. When modifications are proposed to elements under the design and certification of the Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

POST-INSTALLED DOWELS & ANCHOR BOLTS/RODS

1. All reinforcing steel and threaded rod anchors to be installed in a 2-part chemical anchoring system shall be treated as follows:
  - A. Drill holes larger than bar or rod to be embedded. Coordinate hole diameter with Manufacturer's recommendations.
  - B. Holes must be cleaned and prepared in accordance with Manufacturer's recommendations.
  - C. When reinforcing steel is encountered during drilling for installation of anchors; stop drilling, use a sensor to locate the reinforcing in the surrounding area and install anchor(s) as close as possible to the original location. Contact the Structural Engineer of Record (SER) for direction when the revised location is more than 2" from the original location, or when the original function of the anchorage is significantly altered. When in doubt, contact the SER for direction.
  - D. Drill hole have a minimum of 15 bar diameters or as shown on the plans.
  - E. Use a 2-part adhesive anchoring system, Hilti HY-200, or approved equal.
  - F. For anchorage into hollow substrate, use Hilti HY-270, or approved equal.
  - G. Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
  - H. Anchor rods shall be Hilti HAS-V-36, unless noted. Provide finish as noted on the Drawings. If not noted, provide hot-dip galvanized finish for interior applications. Provide stainless steel finish for all exterior applications, unless noted.
2. When column anchor bolts have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the Structural Engineer of Record prior to repair or replacement.
  - A. As a precaution, the affected column must be guyed and braced after repair for the balance of the erection period.
3. As an alternate to guying and bracing, the Contractor may at his option, employ a testing agency to perform a tensile pull test to confirm the strength for the repaired or replaced anchor bolt. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolt or the surrounding concrete. Reference the following table for the minimum proof loads:

3/4" diameter:	12.8 kips
7/8" diameter:	17.4 kips
1" diameter:	22.7 kips
1 1/8" diameter:	28.8 kips
1 1/4" diameter:	35.6 kips

Note: Values listed above are for ASTM F-1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Steel Design Guide 1, Table 3.1 for minimum allowable loads to be multiplied by 1.33.
4. When affected anchor bolts are part of a fixed moment resisting column base, such as those in moment-resisting space frames, canopies, or fixed-base installations, the repaired anchor bolts must be proof-loaded, or the affected column footing and/or pier replaced in its entirety.
5. When affected anchor bolts are part of a braced frame the affected column footing and/or pier must be replaced in its entirety.
6. Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts for that column.

CAST IN PLACE CONCRETE

1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised code.
2. Cold weather concreting shall be in accordance with ACI 306. Cold weather is defined as a period when for more than 3 successive days the average daily air temperature drops below 40° and stays below 50°. The Contractor shall maintain a copy of this publication on site.
3. Hot weather concreting shall be in accordance with ACI 305. Hot weather is defined as any combination of the following conditions that tends to impair the quality of the freshly mixed or hardened concrete: high ambient temperature, high concrete temperature, low relative humidity, wind speed, or solar radiation. The Contractor shall maintain a copy of this publication on site.
4. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air content, concrete cylinder testing, etc., to ensure conformance with the Contract Documents. Submit reports to Architect/Engineer.
5. Finishing of Slabs: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast in Place Concrete Specification of the Project Manual.
  - A. Floor Slabs Hard Trowel Finish
  - B. Ramps, Stairs, & Sidewalks Broom Finish
  - C. Driving Surfaces Rough Steel FinishSample Finishes: See Specifications for sample and mockup requirements. If any Floor Tolerances: See the Specifications for specified F1 and F tolerances. If F1 testing shall be performed by the Testing Agency in accordance with ASTM E 1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications.
6. Finishing of Formed Surfaces: Finish formed surfaces as indicated below, and as described in the Division 3 Cast in Place Concrete Specification of the Project Manual.
  - A. Sides of Footings where required Rough Form Finish
  - B. Sides of Grade Beams where required Rough Form Finish
  - C. Surfaces not exposed to public view Rough Form Finish
  - D. Surfaces exposed to public view Smooth Form Finish
7. The Contractor shall consult with the Structural Engineer of Record before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
8. Sawn or loaded contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. If the column spacing exceeds 20'-0", provide intermediate joints. Exterior slabs, and interior slabs without columns shall have joints spaced a maximum of 15'-0" apart. Layout joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
9. Where vinyl composition tile, vinyl sheets goods, thin-set epoxy terrazzo, or other similar material is the specified finish floor material, the Contractor shall coordinate the locations of contraction and construction joints with the Finish Flooring Contractor. Submit a dimensioned plan showing joint locations and proposed sequence of floor pours.
10. Joints in slabs to receive a finished floor may remain unfilled, unless required by the finish flooring contractor. All exposed slabs shall be filled with sealant specified in Division 7. Deter filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations.
11. Refer to the Architectural Drawings for identifier requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
12. Refer to the Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.
13. Sidewalks, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, printing, and finish details.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A1064, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 40 diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the CRSI Manual of Standard Practice.
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 Details and Detailing of Concrete Reinforcement and ACI 315R Manual of Engineering and Placing Drawings for Reinforced Concrete Structures, unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discourage bars at all large openings where necessary, and provide an area of reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimension + 4'-0" on each side of the opening. Provide #5 x 4'-0" long diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standoffs for the support of top reinforcement for footings, pile caps, and mats.
10. Provide individual high chains with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standoffs.
11. Provide snap-on plastic space wheels to maintain required concrete cover for vertical wall reinforcement.
12. Where walls at or on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lap splices as shown on the application sections. Install dowels in the footing forms before concrete is placed. Do NOT stick dowels into footings after concrete is placed.
13. Field bending of reinforcing steel is prohibited, unless noted on drawings.
14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note:

MINIMUM COVER FOR REINFORCEMENT	
	MINIMUM COVER
FOOTINGS & BASE SLABS	
AT FORMED SURFACES & BOTTOMS BEARING ON CONCRETE WORK MAT	2"
AT UNFORMED SURFACES & BOTTOMS IN CONTACT WITH EARTH	3"
TOP OF FOOTINGS	SAME AS SLABS

CONCRETE MIX CLASSES	
FOOTINGS & FOUNDATION WALLS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.45
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
INTERIOR CONCRETE SLABS	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	517 LBCU/YD
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
INCLUDE FIBER REINFORCING AND ES INTERNAL CURE ADMIXTURE AS INDICATED ON PLAN	
EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW	
COMPRESSIVE STRENGTH	4500 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LBCU/YD
AIR CONTENT	6 ± 1 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
COARSE AGGREGATE	CRUSHED STONE
LEAN CONCRETE FILL	
COMPRESSIVE STRENGTH	2000 PSI
MAXIMUM WATER/CEMENT RATIO	0.65
AIR CONTENT	OPTIONAL
WATER-REDUCING ADMIXTURE	NOT REQUIRED
SLUMP	4" TO 7"
1. SLUMP: MIXES CONTAINING TYPE A WROA 5" MAXIMUM 5 - 6 1/2" MIXES CONTAINING MID-RANGE WROA 5 - 6 1/2" MIXES CONTAINING HIGH-RANGE WROA 5 - 6 1/2"	
2. SPECIFIED MINIMUM CEMENTITIOUS MATERIAL CONTENTS ARE BASED ON THE USE OF WATER-REDUCING ADMIXTURES.	
3. INCLUDE AN AIR-ENTRAPPING ADMIXTURE FOR ALL CONCRETE EXPOSED TO FREEZING AND THAWING IN SERVICE AND FOR ALL CONCRETE EXPOSED TO COLD WEATHER DURING CONSTRUCTION, BEFORE ATTAINING ITS SPECIFIED DESIGN COMPRESSIVE STRENGTH. REF. ACI 308 FOR DEFINITION OF COLD WEATHER.	
4. SUBSTITUTION RATE ON A PROPORTION-PROPORTION BASIS.	
5. PROPORTION CONCRETE MIXES TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACEMENT AND CONSOLIDATION TO BE EMPLOYED, WITHOUT SEGREGATION AND EXCESSIVE BLEEDING.	
6. ADJUSTMENTS TO THE APPROVED MIX DESIGNS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. THESE REVISED MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO USE.	

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows:
  - General The 2014 Indiana Building Code (2012 International Building Code (IBC) with Indiana Amendments)
  - Concrete ACI 318
  - Masonry ACI 530
  - Steel AISC Manual, Allowable Stress Design (ASD)
  - Steel Deck Institute ASD-SD
  - Cold-Formed Steel AISI-S308All referenced standards and codes, as well as ASTM numbers, are for the editions of these publications referenced in the Building Code listed above, unless otherwise noted.
2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairs, fixed partitions, finishes, cladding and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and feed service equipment, including the weight of cranes.
3. LIVE LOADS: Gravity live loads used in the design of the structure meet, or exceed the following table (IBC 2012, 1607.1):

OCCUPANCY OR USE	UNIFORM (PSF)	CONCENTRATED (LB)
[Note #1]		
A. Assembly Area	100	---
1. Movable Seats	100	---
2. Platforms (Assembly)	100	---
B. Office Buildings	100	---
1. Lobbies & First Floor Corridors	100	2000
2. Offices	50	2000

- Note #1: Unless otherwise noted, the indicated concentrated load has been assumed to be uniformly distributed over an area of 30' x 30'.
4. LIVE LOAD REDUCTION: Live load reductions in accordance with IBC 1607.8 have been used with the following exceptions:
    - A. Heavy live loads in excess of 100 PSF have not been reduced except for members supporting 2 or more floors have been reduced by a maximum of 20%.
    - B. Live loads of 100 PSF or less for public assembly occupancies have not been reduced.
    - C. Live loads for roof members have not been reduced.
  5. PARTITION ALLOWANCE: A uniform partition allowance of 15 PSF has been used to account for the load of all floors where partition locations are subject to change, unless the specified live load exceeds 80 PSF.
  6. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 3 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
  7. CONCENTRATED LOADS: All single panel points of the lower chord of exposed roof trusses or any point along the primary structural members supporting roofs over all other occupancies shall be capable of carrying safely a suspended concentrated load of not less than 20 LBS in addition to dead load, unless noted.
  8. HANDRAILS AND GUARDS
    - A. Handrail Assemblies and Guards 50 PLF applied in any direction 200 LB concentrated load applied in any direction (non-concurrent with 50 PLF load) 50 LBS horizontally applied normal load on an area not to exceed 1 square foot not superimposed with those of handrail assemblies.
  9. ROOF LIVE/SNOW LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:

A. Snow Load	20 PSF
Ground Snow Load, Pg	14 PSF
Flat Roof Snow Load, Pf	20 PSF
Low Slope Minimum Snow Load, Pm	20 PSF
Exposure Factor, Ce	1.0
Risk Category (IBC Table 1604.5)	II
Snow Importance Factor, Is	1.0
Thermal Factor, Ct	1.0
B. Minimum Roof Live Load	20 PSF
C. Overhang Eaves & Projections	28 PSF

    - 1. Sloped roof snow loads calculated in accordance with Section 7.4, ASCE 7.
    - 2. Unbalanced roof snow loads calculated in accordance with Section 7.6, ASCE 7. Specialty Structural Engineers must consider unbalanced snow loads in the design of pre-engineered houses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
    - 3. Drift loads calculated in accordance with Section 7.7, ASCE 7.
  10. LATERAL LOADS: Lateral loads were computed using the following criteria:
    - A. Wind Load
      - Ultimate Design Wind Speed, Vult 115 MPH
      - Normal Design Wind Speed, Vasd 89 MPH
      - Wind Exposure Category C
      - Risk Category (IBC Table 1604.5) II
      - Internal Pressure Coefficient, GCp1 ± 0.18
    - B. Seismic Load
      - Site Classification C
      - Risk Category (IBC Table 1604.5) II
      - Seismic Importance Factor, Is 1.00
      - Mapped Spectral Response Acceleration, Sa 0.158g
      - Mapped Spectral Response Acceleration, S1 0.085g
      - Design Spectral Response Acceleration, Sds 0.127g
      - Design Spectral Response Acceleration, Sd1 0.097g
      - Seismic Design Category, SDC B
      - Response Modification Coefficient, R 0.02
      - Seismic Response Coefficient, Cs 0.4
      - Analysis Procedure Base Seismic Force-Resisting System (ASCE 7-10, Table 12.2-1) Detailed For Seismic Resistance
  11. SAFETY FACTORS: This structure has been designed with "Safety Factors" in accordance with accepted principles of structural engineering. The fundamental nature of the "Safety Factors" is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that "Safety Factors" be used such that the load-carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of "Safety Factors" implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

GENERAL NOTES

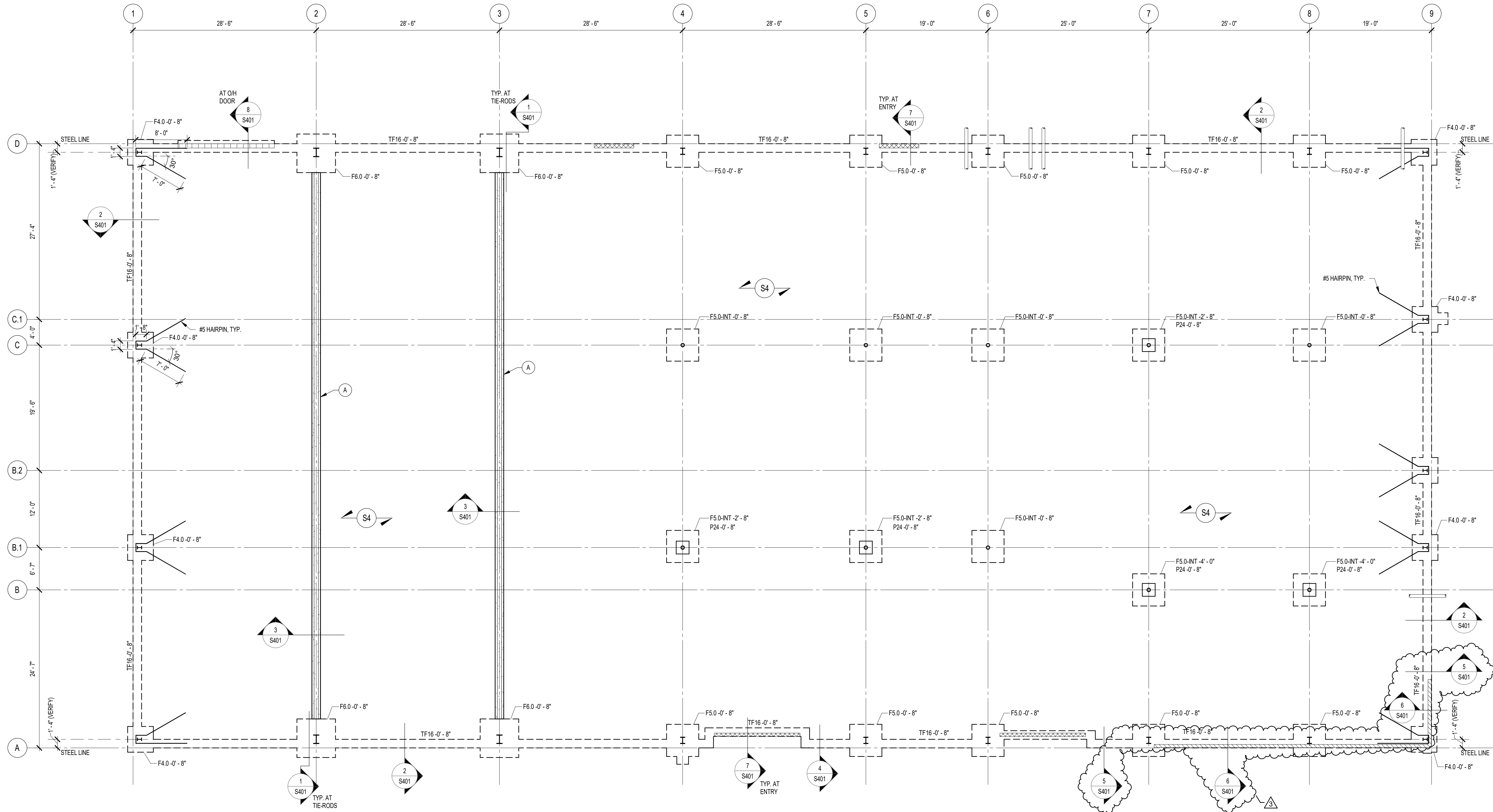
1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work.
2. The Structural Engineer of Record will not advise on, nor issue direction as to safety precautions and programs.
3. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
4. The Structural Engineer of Record (SER) shall not be responsible for the methods, techniques and sequences are not specifically shown, similar details of construction to be used, subject to approval of the SER. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the Structural Engineer of Record.
5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loading and the design of the structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.
7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless otherwise noted.
8. Shop drawings and other items shall be submitted to the Structural Engineer of Record (SER) for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The SER's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The SER's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions associated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.
9. Submit Shop Drawings in the form of blue/blackline prints (min. 2 sets/ max. 5 sets) and one reproducible blackline or repro copy. In no case shall reproductions of the Contract Documents be used as shop drawings. As a minimum, submit the following items for review:
  - A. Concrete Mix Design(s).
  - B. Reinforcing Steel Shop Drawings.
  - C. Pre-Engineered Metal Building Systems.
  - D. Cold-Formed Steel Framing Systems.
10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to comments made in the previous submittal.
11. When calculations are included in the submittals for components of work designed and certified by a Specialty Structural Engineer (SSE), the review by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve the SSE from responsibility for the design of the system(s) and the coordination with the elements of the structure under the certification of the SER, or other SSE's. The SER's review does not constitute a warranty of the accuracy or completeness of the SSE's design.
12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.
13. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the Structural Engineer of Record.
14. When modifications are proposed to structural elements under the design and certification of a Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Structural Engineer of Record for review, prior to performing the proposed modification.

COORDINATION WITH OTHER TRADES

1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overruns, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.
2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
3. There shall be no vertical or horizontal sleeves cut, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the Structural Engineer of Record.
4. Mechanical and electrical openings through supported slabs and walls, 8" diameter or larger, not shown on the Structural Drawings must be approved by the Structural Engineer of Record (SER). Openings less than 8" in diameter shall have at least 1/2" clear between openings, unless approved in writing by the SER. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.
5. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.
6. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck or wood roof sheathing.
7. The Mechanical Contractor shall verify that mechanical units supported by the steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.
8. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

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

CONCRETE PIER SCHEDULE				
PIER MARK	PIER SIZE	PIER REINFORCING		
		VERTICALS	TIES-SIZE & SPA <sup>1</sup>	DETAIL, CRITICAL HEIGHT
P24	2'-0" x 2'-0"	(B) #6	#4 @ 12" O.C.	B ≤ 2'-8"
		(4) #8	#4 @ 12" O.C.	A > 2'-8"

1. PROVIDE MIN. 1" CLEAR TO PIER TIES.  
2. CRITICAL HEIGHT DENOTES THE HEIGHT ABOVE WHICH LARGER DIAMETER VERTICALS WITH FEWER TIES MAY BE USED AT CONTRACTOR'S OPTION. REF. FOUNDATION PLAN(S) FOR TOP OF PIER & FOOTING ELEV.  
3. REF. TYPICAL CONCRETE PIER REINFORCING ON FOUNDATION DETAIL SHEET FOR FURTHER INFORMATION ON TIE SPACING.  
4. VERTICAL DOWELS ARE TO FUNCTION AS PIER VERTICALS FOR PIERS LESS THAN OR EQUAL TO 5'-0" HIGH. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" HIGH, UNLESS APPROVED.  
5. CONTACT THE STRUCTURAL ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS.  
6. MIN. HEIGHT OF PIERS: #6 VERTICALS = 2'-0", #7 VERTICALS = 2'-8".

DETAIL "A"	DETAIL "B"	ALT. DETAIL "B"
(1) SET	(2) SETS	(3) SETS

COLUMN FOOTING SCHEDULE				
NOTES				
1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O. 2. FOOTINGS MAY BE EARTH FORMED WHERE SOIL CONDITIONS ALLOW. FOR EARTH-FORMING, INCREASE PLAN DIMENSIONS BY A MINIMUM OF 2" ON ALL SIDES TO ACCOUNT FOR POTENTIAL INACCURACY ASSOCIATED WITH EARTH CUTS. 3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS. 4. FOOTINGS FOR INTERIOR COLUMNS SHALL BE CENTERED ON THE GRID LINE INTERSECTIONS. FOOTINGS FOR EXTERIOR COLUMNS TO BE LOCATED AS INDICATED ON PLAN / SECTIONS.				

SEE NOTE #3

SEE NOTE #2

FOOTING MARK	LENGTH	WIDTH	DEPTH	REINFORCING EACH WAY
F4.0	4'-0"	4'-0"	2'-4"	(5) #5 x 3'-6"
F5.0	5'-0"	5'-0"	2'-4"	(6) #5 x 4'-6"
F5.0-INT	5'-0"	5'-0"	1'-2"	(6) #5 x 4'-6"
F6.0	6'-0"	6'-0"	2'-4"	(7) #5 x 5'-6"

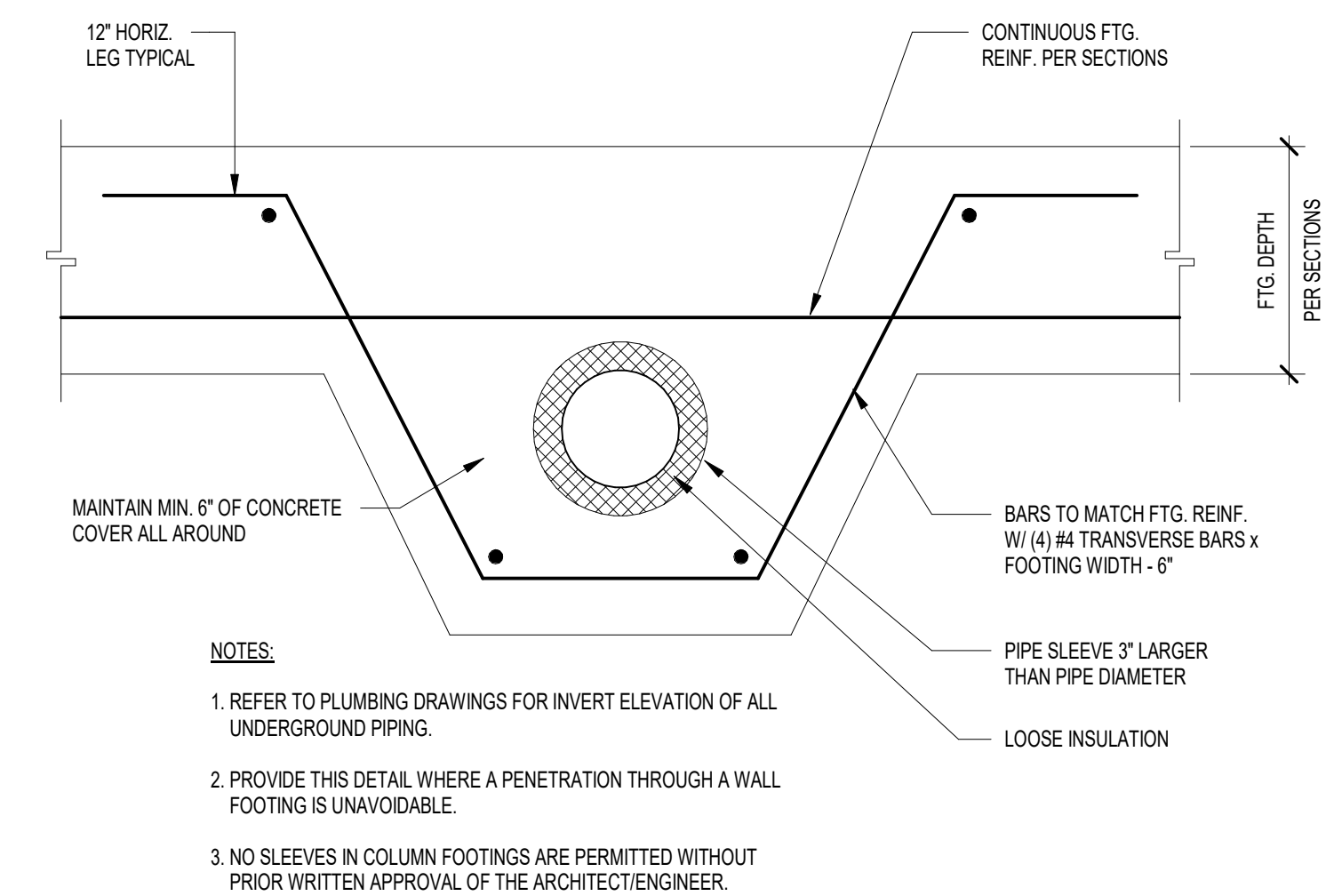
TRENCH FOOTING SCHEDULE			
FTG. MARK	FOOTING SIZE		FOOTING REINFORCING
	WIDTH	DEPTH	LONGITUDINAL TRANSVERSE
TF16	1'-4"	2'-4"	(2) #5 x CONTINUOUS #4 x 1'-0" @ 48" o.c.
TF26	2'-2"	2'-4"	(3) #5 x CONTINUOUS #4 x 1'-0" @ 48" o.c.

NOTES

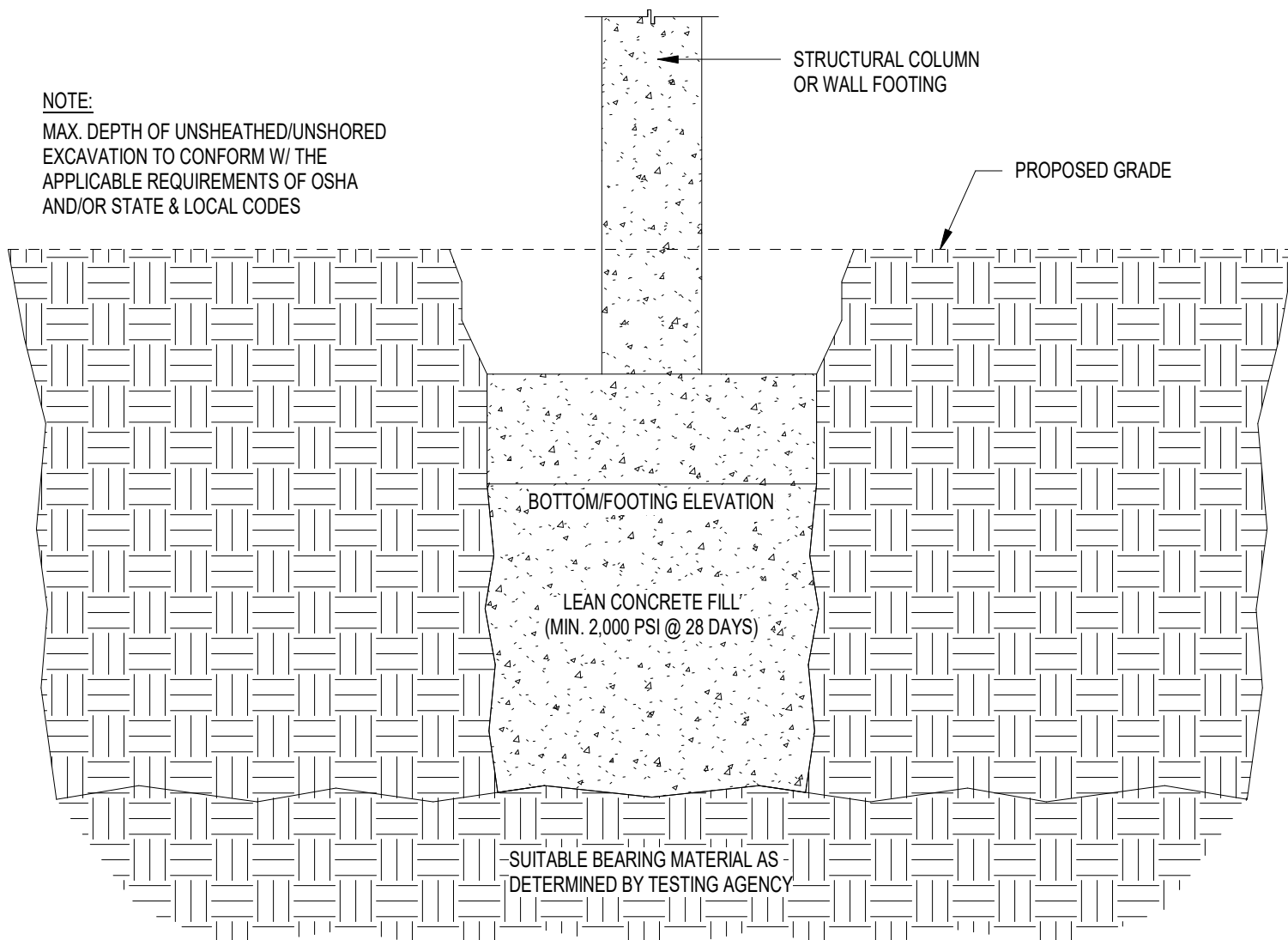
- CENTER FOOTINGS BENEATH WALLS, U.N.O.
- TRENCH FOOTINGS MAY BE CAST DIRECTLY AGAINST SOIL WITHOUT FORMING WHERE EXISTING SOIL CONDITIONS PERMIT. FORM TOP OF TRENCH FOOTINGS WHERE SOIL WAS SLOUGHED SIGNIFICANTLY, WHERE GRADE IS LOWER THAN THE INDICATED TOP OF FOOTING ELEVATION, OR WHEREVER TRENCH FOOTING WOULD INTERFERE WITH THE INSTALLATION OF DOWNSPOUTS, CONDUIT, BOLLARDS, ETC. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING & SITE/CIVIL DRAWINGS.
- IF REQUIRED, INTERIOR OF TRENCH FOOTING SHALL BE FORMED WITH RIGID INSULATION. TAKE CARE IN TRIMMING INTERIOR FACE OF EXCAVATION TO MINIMIZE GAPS BEHIND THE INSULATION. FILL WITH #8 CRUSHED STONE, TAMPING AND COMPACTING WHERE SPACE PERMITS.

FOUNDATION PLAN NOTES	
GENERAL NOTES	
1. ALL DIMENSIONS, COLUMN LOCATIONS, AND COLUMN FOOTING SIZES SHOWN ARE PRELIMINARY AND ARE SUBJECT TO CHANGE BASED ON FINAL COORDINATION WITH PRE-ENGINEERED BUILDING SUPPLIER.	
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.	
3. ALL ELEVATIONS ARE REFERENCED FROM THE NEW CONSTRUCTION GROUND LEVEL FLOOR ELEVATION 0'-0". SEE THE CIVIL DRAWINGS FOR EXACT U.S.G.S. ELEVATION.	
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.	
5. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS.	
6. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.	
7. COLUMN FOOTINGS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE BASED ON FINAL REACTIONS PROVIDED BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER.	
8. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON SOILS WITH AN ALLOWABLE BEARING PRESSURE NOT LESS THAN 2,000 PSF.	
KEYED NOTES	
A. PROVIDE (2) #8 CONTINUOUS TIE RODS ENCASED IN 16" W. x 8" H. CONCRETE TRENCH. TOP OF TRENCH = 0'-0". RODS MAY BE SPLICED WITH MECHANICAL COUPLERS CAPABLE OF ACHIEVING FULL TENSION, STAGGERED AT LEAST 16 FEET APART.	
PLAN LEGEND	
<p>FOOTING MARK &amp; TOP OF FTG. ELEVATION (SEE FTG. SCHED.)</p> <p>COLUMN FOOTING</p> <p>STEEL COLUMN</p> <p>4" CONCRETE SLAB-ON-GRADE w/ FIBERFORCE 300<sup>®</sup> FIBERS @ 1.5 LB/CY, OR EQUAL, &amp; TIE INTERNAL CURE ADMIXTURE AT 4 OZ/CWT &amp; T3 CATALYST<sup>®</sup> SPRAYED-ON BETWEEN 800-1,000 SF/GAL OVER 15 MIL CLASS A VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL (NOT NO. 55 CRUSHED STONE).</p> <p>DENOTES APPROX. LOCATION OF PIPE PENETRATION THROUGH TRENCH FOOTING. PROVIDE SLEEVE PER DETAIL 45400. COORD. EXACT LOCATION, SIZE, AND INVERT W/ M.E.P. DRAWINGS AND/OR CONTRACTOR.</p>	

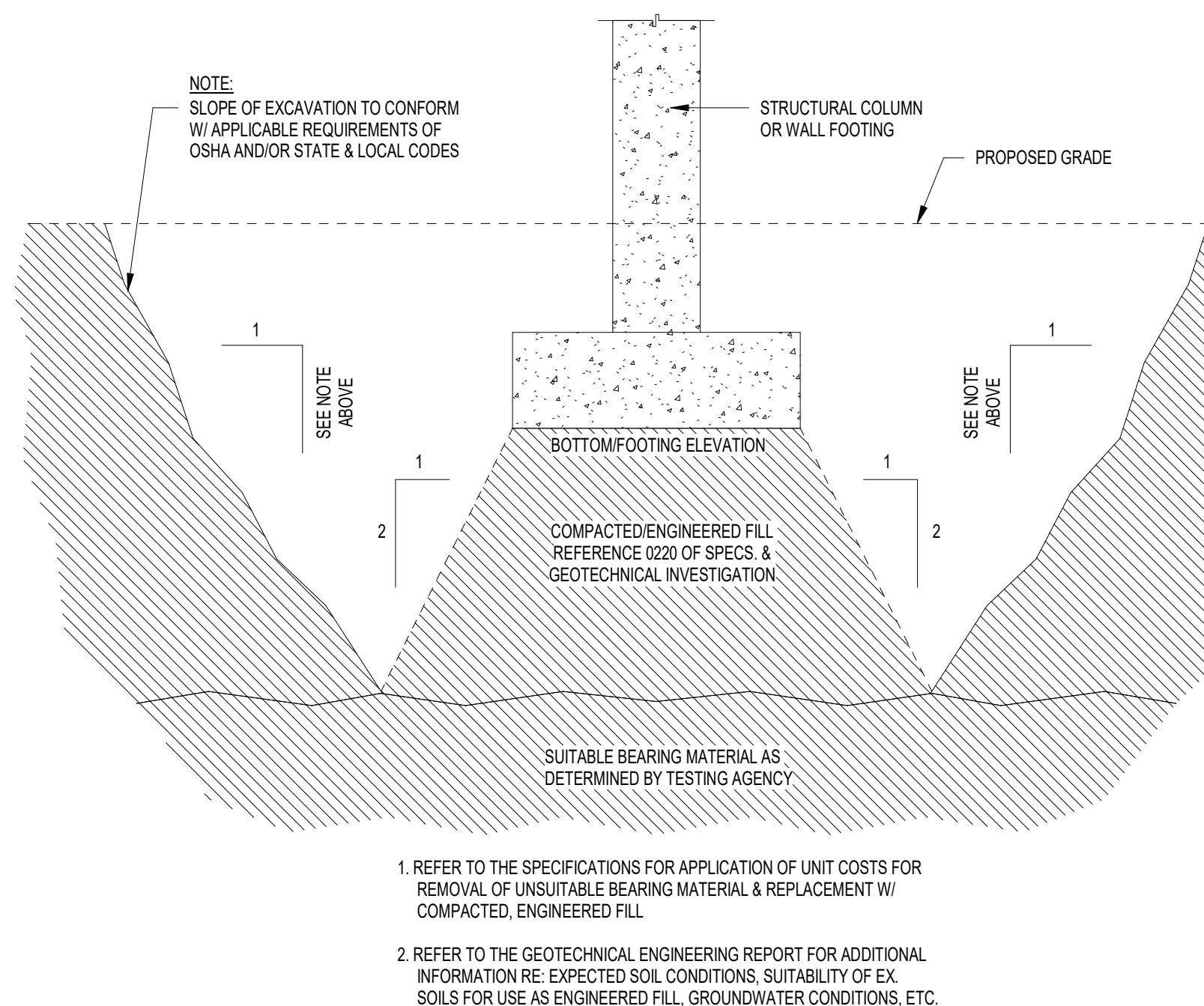




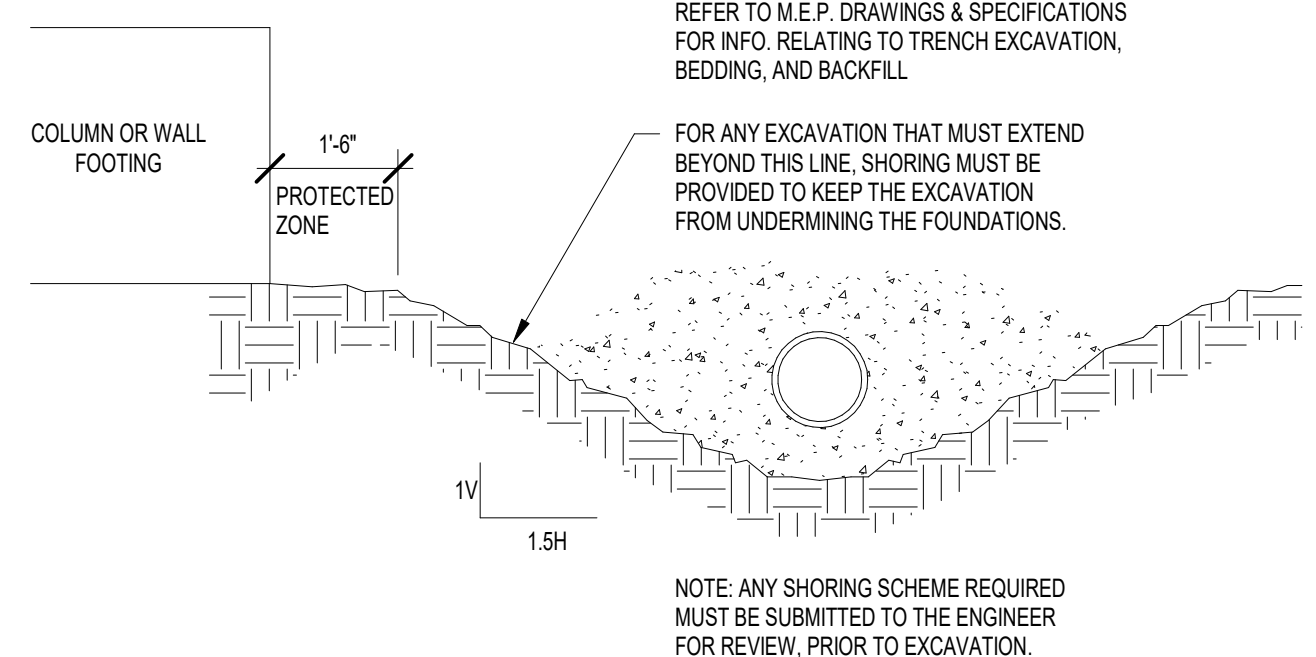
#### 4 WALL FOOTING SLEEVE DETAIL



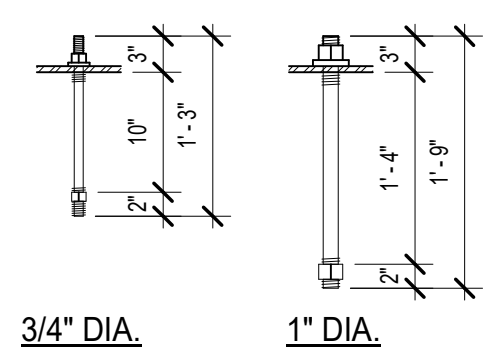
3 OVEREXCAVATION DETAIL - LEAN CONCRETE FILL  
3/4" = 1'-0"



2 OVEREXCAVATION DETAIL - COMPACTED FILL  
3/4" = 1'-0"



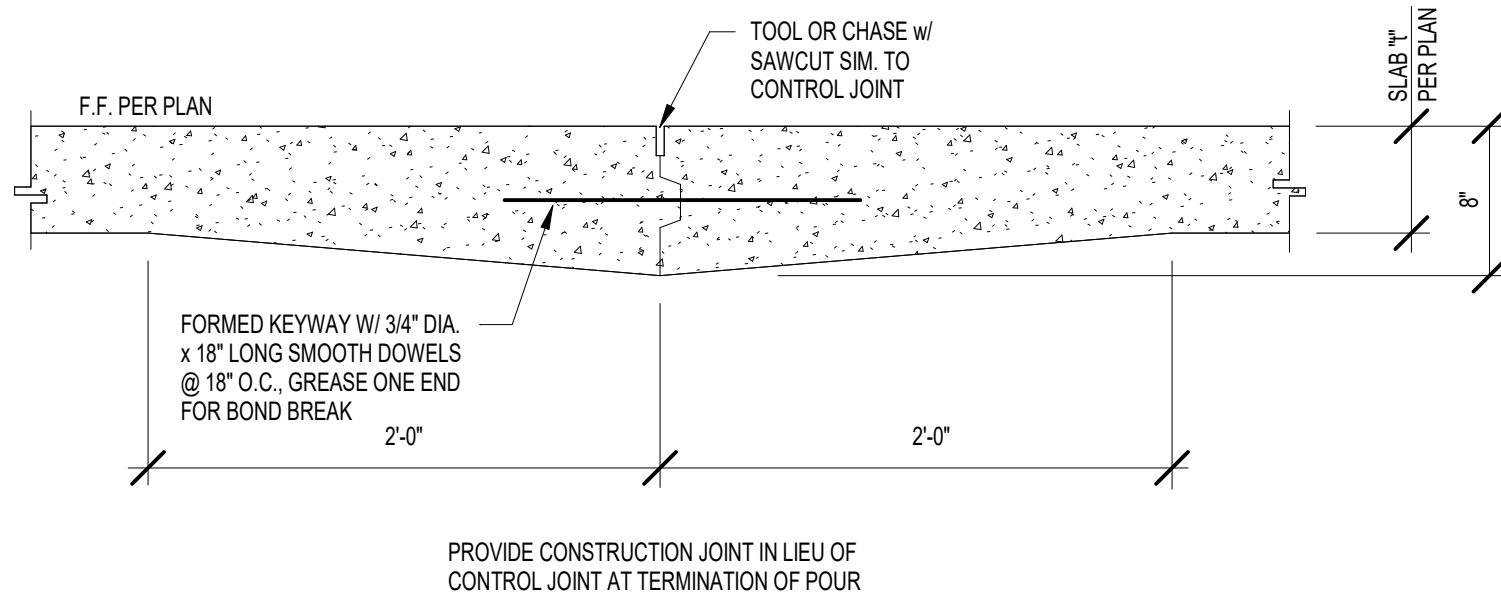
1 EXCAVATION LIMITS DETAILS  
3/4" = 1'-0"



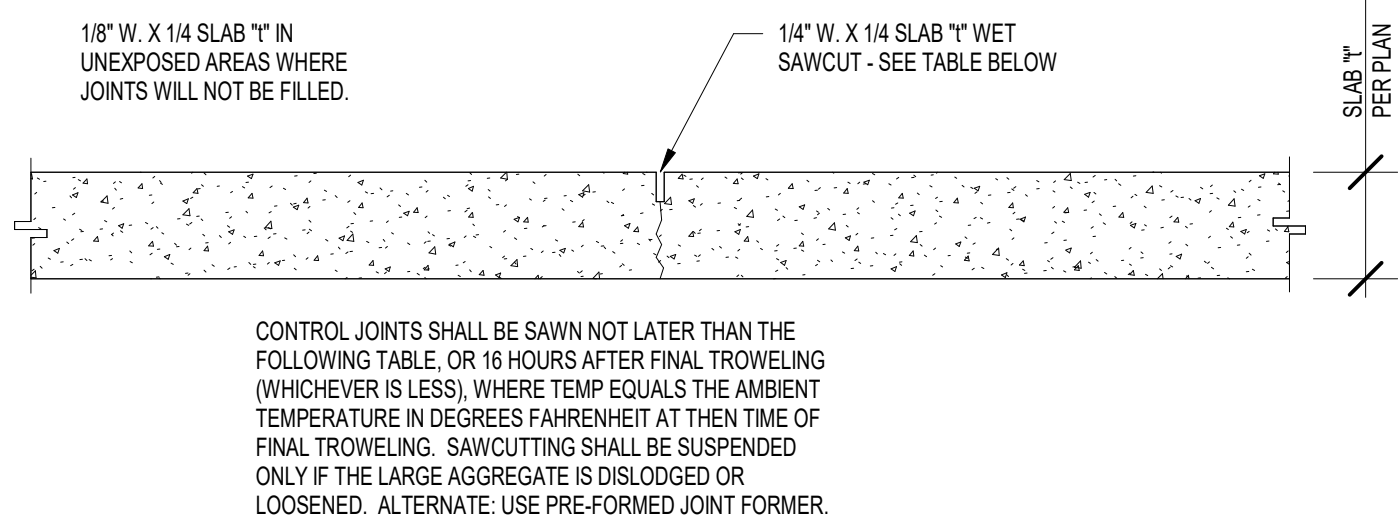
ANCHORS AT P.E.M.B.

- NOTES:**
1. ALL ANCHOR RODS TO BE ASTM F1554 GR. 36.
  2. REFER TO PRE-ENGINEERING BUILDING SUPPLIER DRAWINGS FOR DIAMETER, QUANTITY, LOCATION, AND SPACING OF ALL ANCHOR RODS.
  3. LOCATION OF ANCHOR BOLTS MUST NOT VARY MORE THAN 1/8" CENTER-TO-CENTER OF ANY TWO BOLTS WITHIN AN ANCHOR BOLT GROUP.
  4. HOLD MAXIMUM DEVIATION OF 1/4" CENTER-TO-CENTER OF ADJACENT ANCHOR BOLT GROUPS.
  5. HOLD ELEVATION OF THE TOP OF THE ANCHOR BOLTS TO  $\pm 1/2$  INCH.
  6. HOLD MAXIMUM DEVIATION OF 1/4" FROM THE CENTER OF ANY ANCHOR BOLT GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
  7. REFER TO THE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.

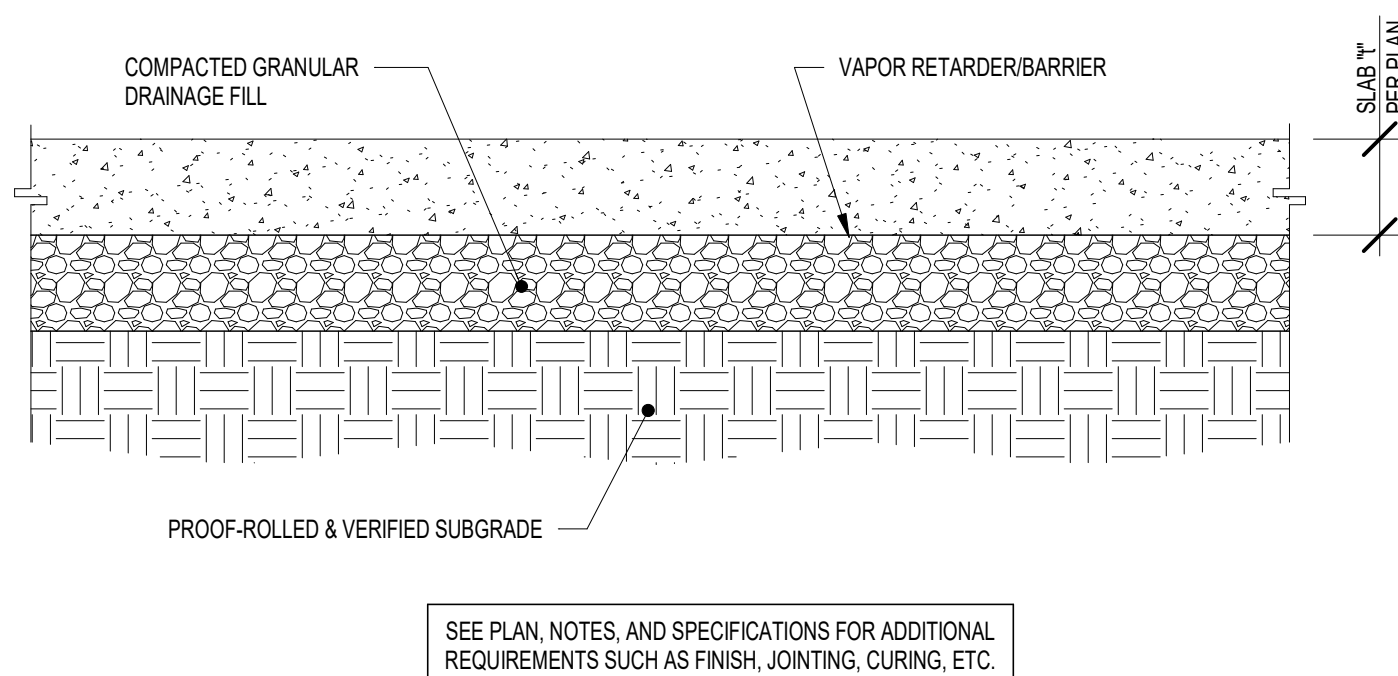
## 9 ANCHOR ROD DETAILS



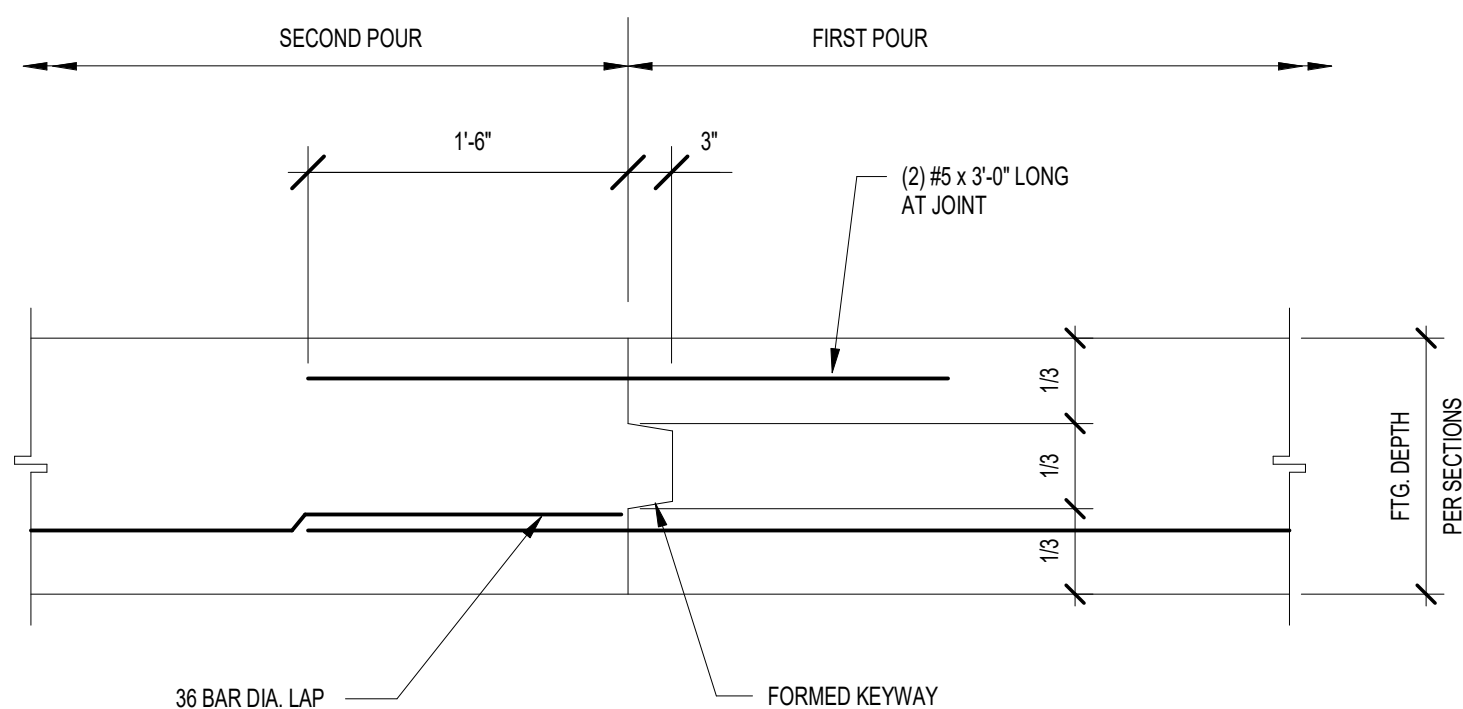
8 SLAB CONSTRUCTION JOINT  
1" = 1'-0"



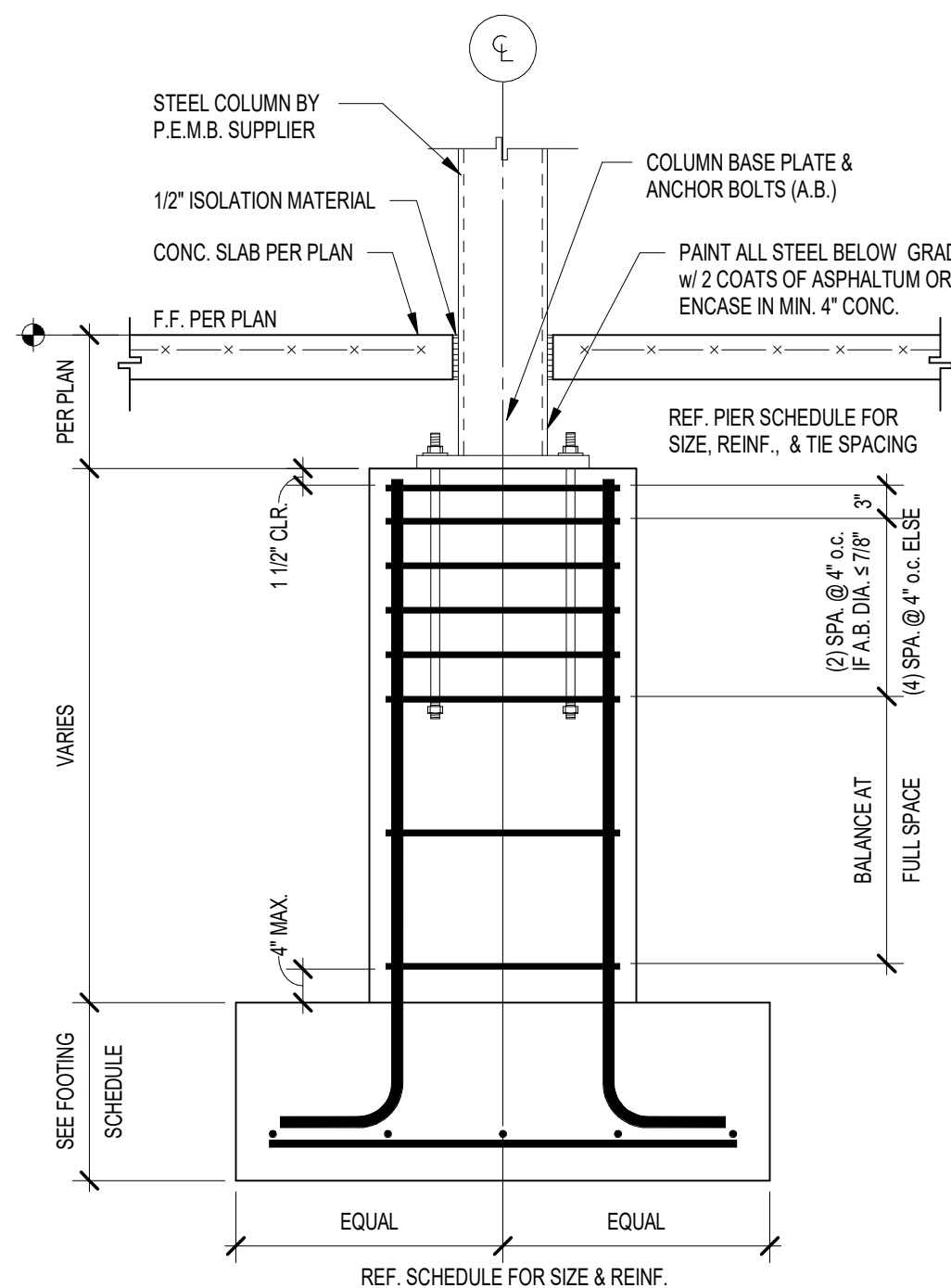
**7** SLAB CONTROL/CONTRACTION JOINT  
1" = 1'-0"



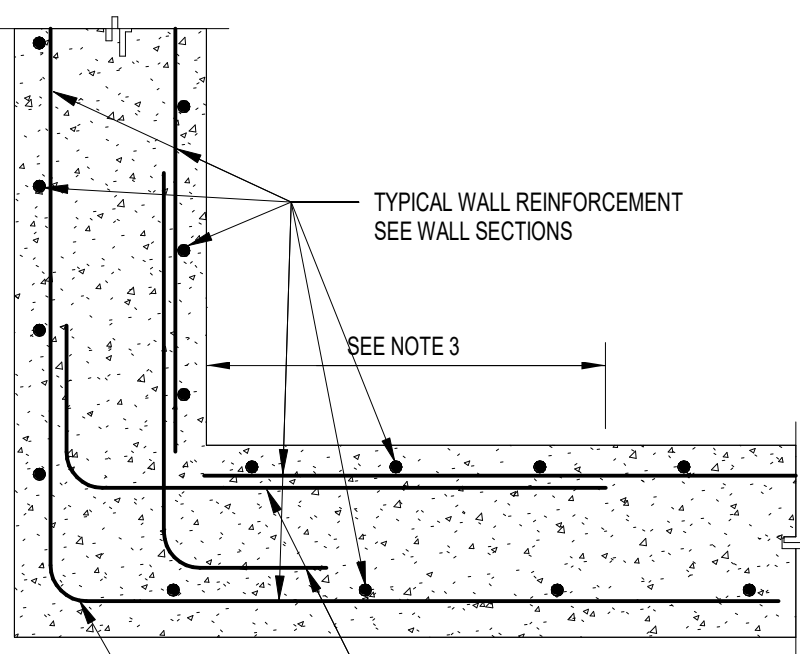
**6** SLAB ON GRADE CONSTRUCTION  
1" = 1'-0"



## 5 WALL FOOTING CONSTRUCTION JOINT



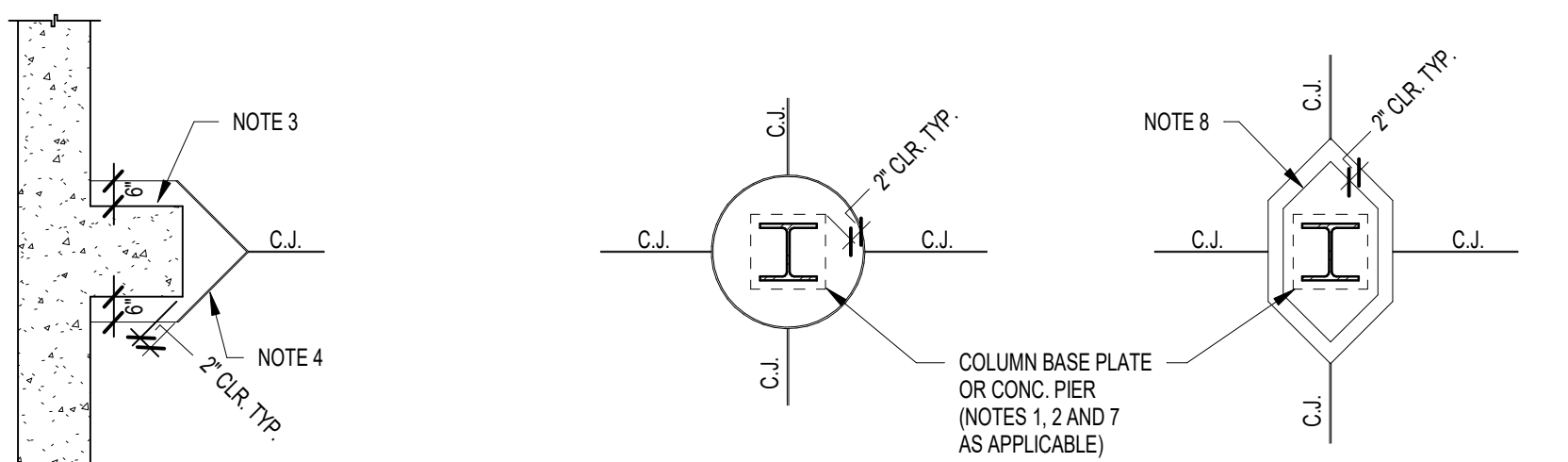
12 TYPICAL CONCRETE PIER REINFORCING  
3/4" = 1'-0"



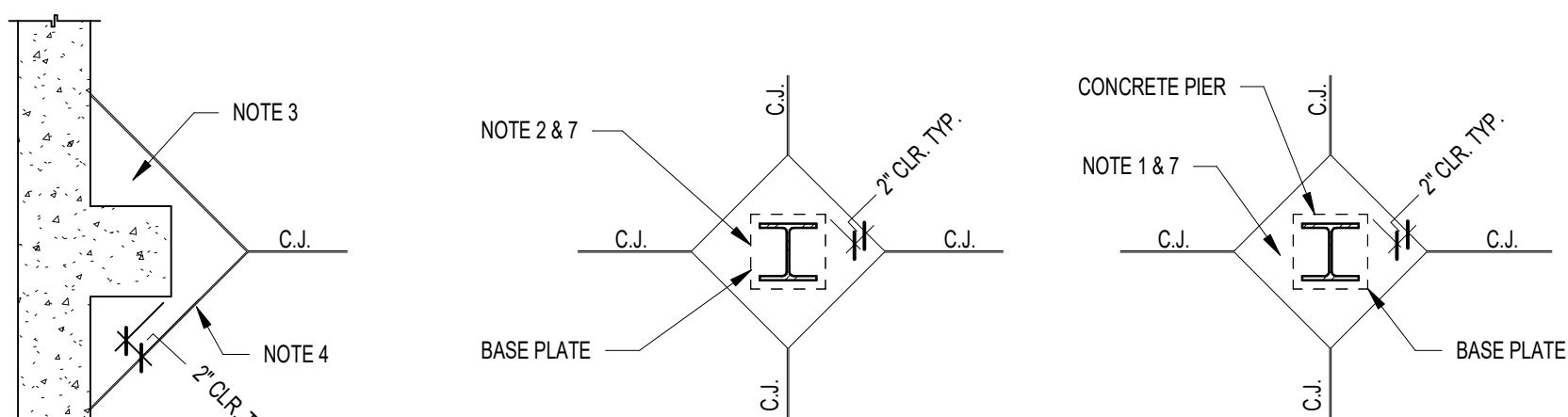
WALL REINFORCEMENT  
(BOTH FACES)

1. PROVIDE CORNER BARS AS SHOWN. MATCH HORIZONTAL WALL REINFORCEMENT SIZE AND SPACING.
2. PROVIDE HORIZONTAL DOWELS AS SHOWN, OR STANDARD 90 DEGREE END HOOK ON HORIZONTAL BARS.
3. PROVIDE TYPE III LAP SPLICE (SEE CONCRETE REINFORCING TENSION LAP SPLICE TABLE).
4. SEE APPLICABLE SECTIONS FOR REINFORCING STEEL CLEARANCES.
5. TERMINATE HORIZONTAL WALL REINFORCEMENT 2' FROM END OF WALL.
6. GRADE BEAMS: PROVIDE CORNER BARS FOR LONGITUDINAL REINFORCEMENT AT GRADE BEAM CORNERS WITHOUT A SUPPORTING CONCRETE PIER, AS SHOWN IN "WALL REINFORCEMENT - BOTH FACES".

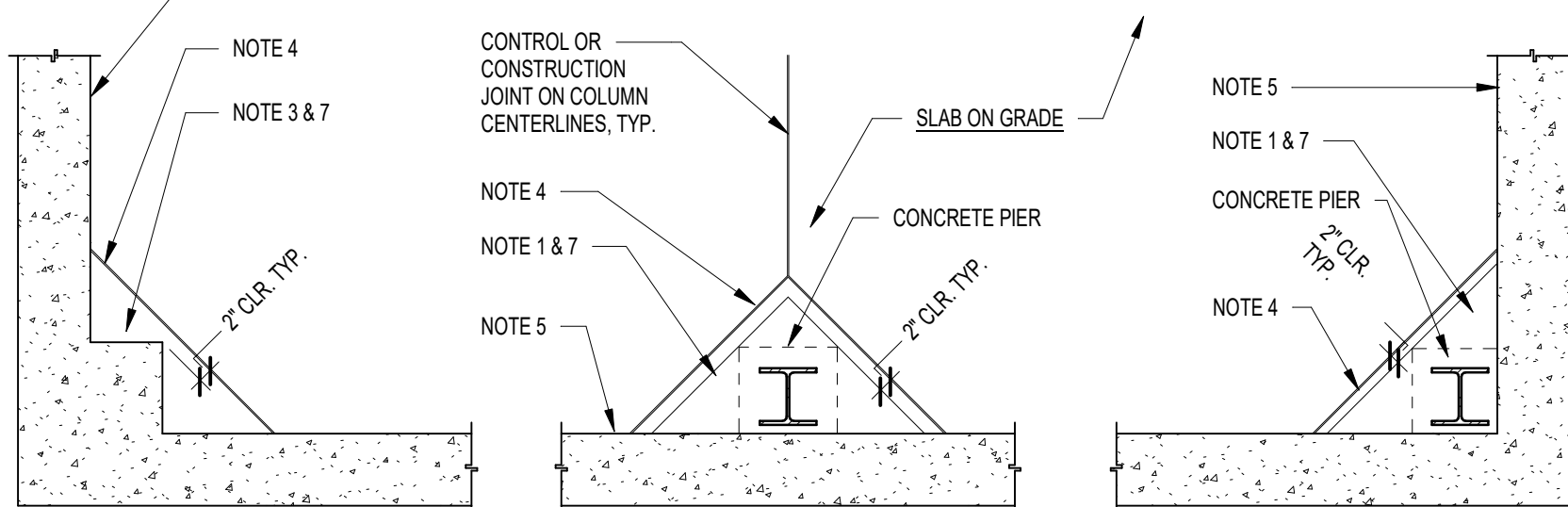
**11** TYPICAL CONCRETE WALL AND GRADE BEAM CORNERS  
3/4" = 1'-0"



SPECIAL CONDITIONS

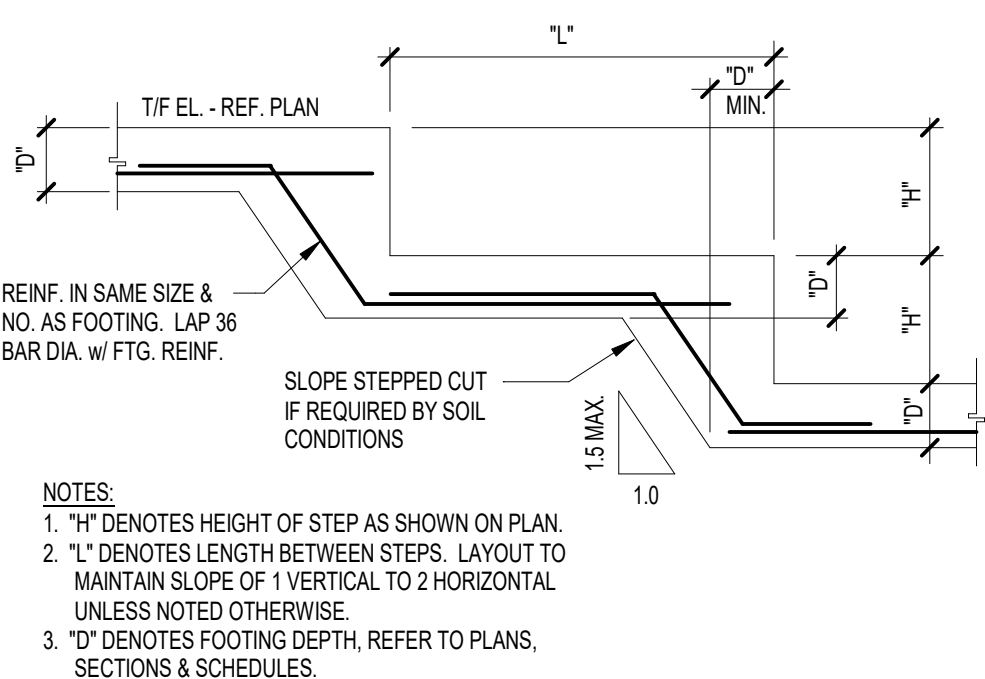


INTERIOR COLUMN  
WITHOUT PIER



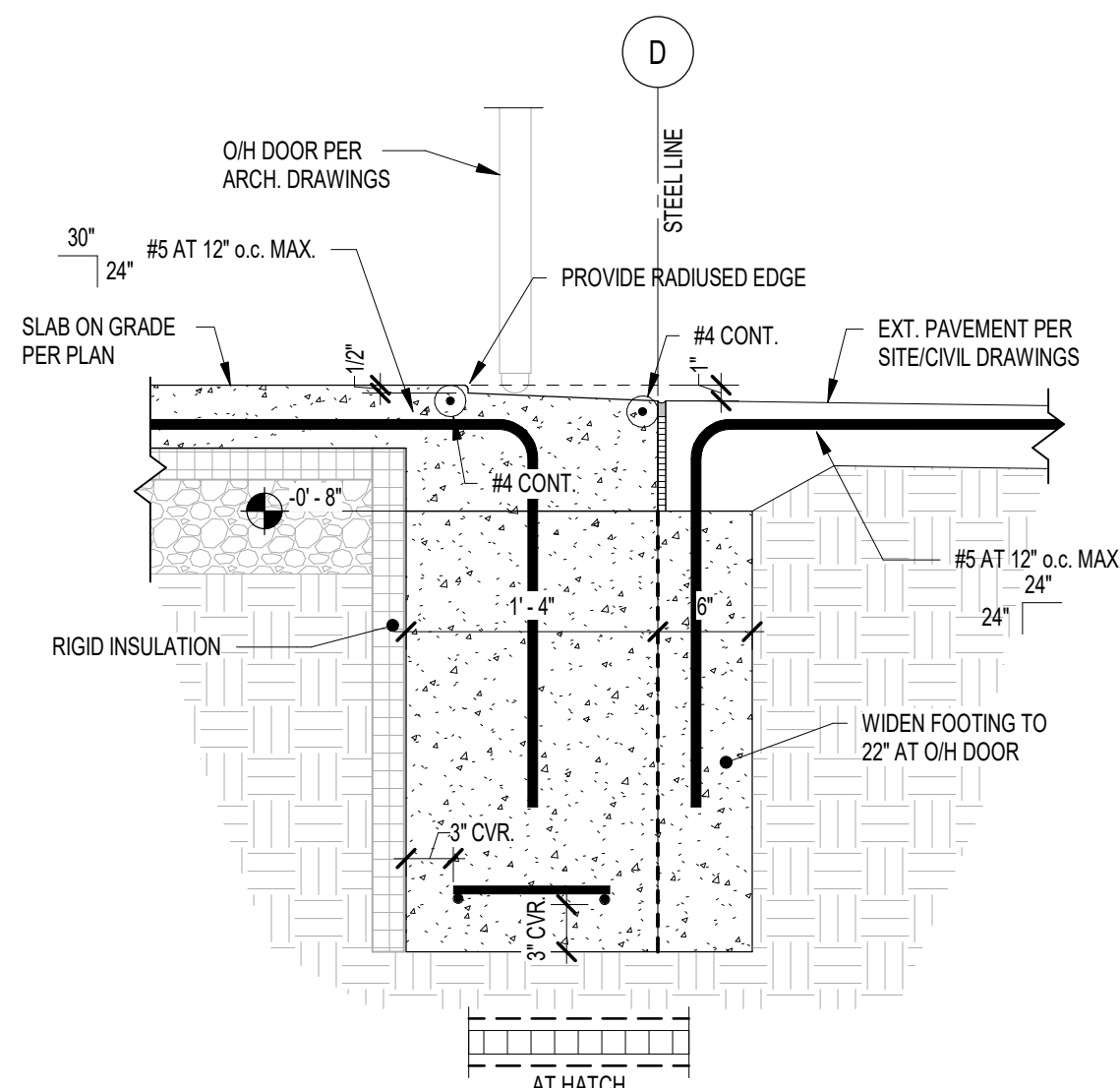
- NOTES:**
1. COLUMBIAN JAIL SECTION: DEPTH OF CONCRETE ISOLATION SECTION TO EXTEND TO TOP OF CONCRETE PIER.
  2. COLUMBIAN JAIL SECTION: DEPTH OF CONCRETE ISOLATION SECTION TO EXTEND TO TOP OF FOOTING.
  3. COLUMBIAN JAIL COLLARING: EXISTING CONCRETE ISOLATION SECTION TO MATCH THICKNESS OF EXISTING SLAB ON GRADE.
  4. PROVIDE BOND BREAKER BETWEEN COLUMBIAN ISOLATION SECTIONS AND SLAB ON GRADE, UNLESS OTHERWISE NOTED. SEE PLAN FOR LOCATIONS WHERE ROUND ISOLATION SECTIONS ARE REQUIRED.
  5. PROVIDE 6" EXTENSION SLABS WITH LAP JOINTS BETWEEN SLAB ON GRADE OR ISOLATION SLAB AND WALL, UNLESS OTHERWISE NOTED (SEE SPECIFICATION 03000).
  6. "C.J." DENOTES SAWCUT CONTROL JOINT IN SLAB ON GRADE. SEE TECHNICAL SLAB ON GRADE CONTROL JOINT DETAIL.
  7. PROVIDE 6" EXTENSION SLAB WITH LAP JOINTS BETWEEN ISOLATION SECTION AS REQUIRED SUCH THAT PORTION OF BRACING THAT PENETRATES SLAB IS COMPLETELY WITHIN ISOLATION SECTION.
  8. PROVIDE (1) #4 REINFORCE IN ISOLATION SLAB AS INDICATED. LOOSE REINFORCING WITH #2 CLEAR TO TOP OF SLAB. DETAIL REINFORCING TO MATCH ISOLATION SLAB GEOMETRY. WITH STANDARD LAP LENGTHS REQUIRED AT BAR SPACES REDUCE.

**10** COLUMN ISOLATION JOINT DETAILS  
3/4" = 1'-0"

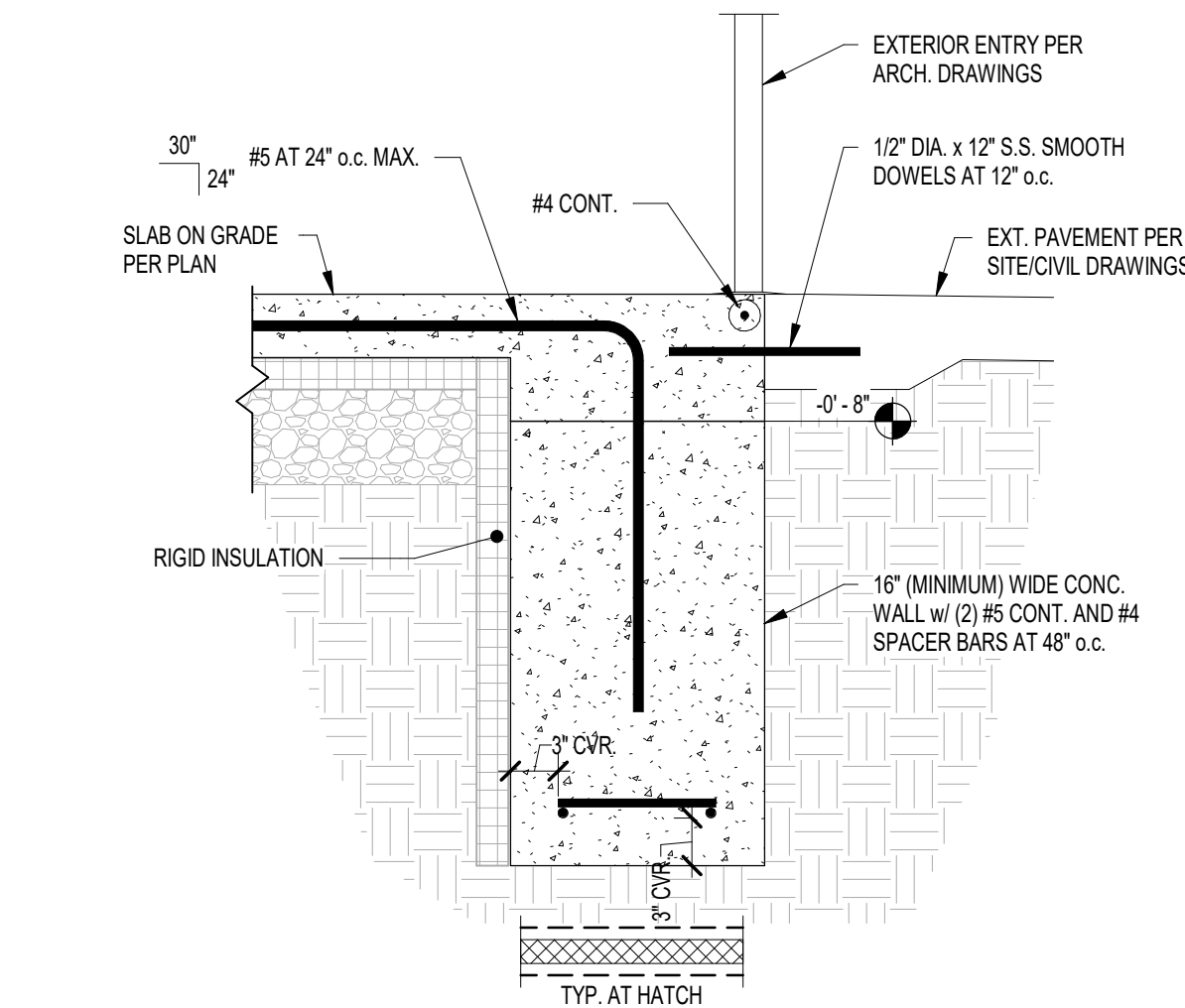


**13** STEPPED FOOTING DETAIL  
1/2" = 1'-0"

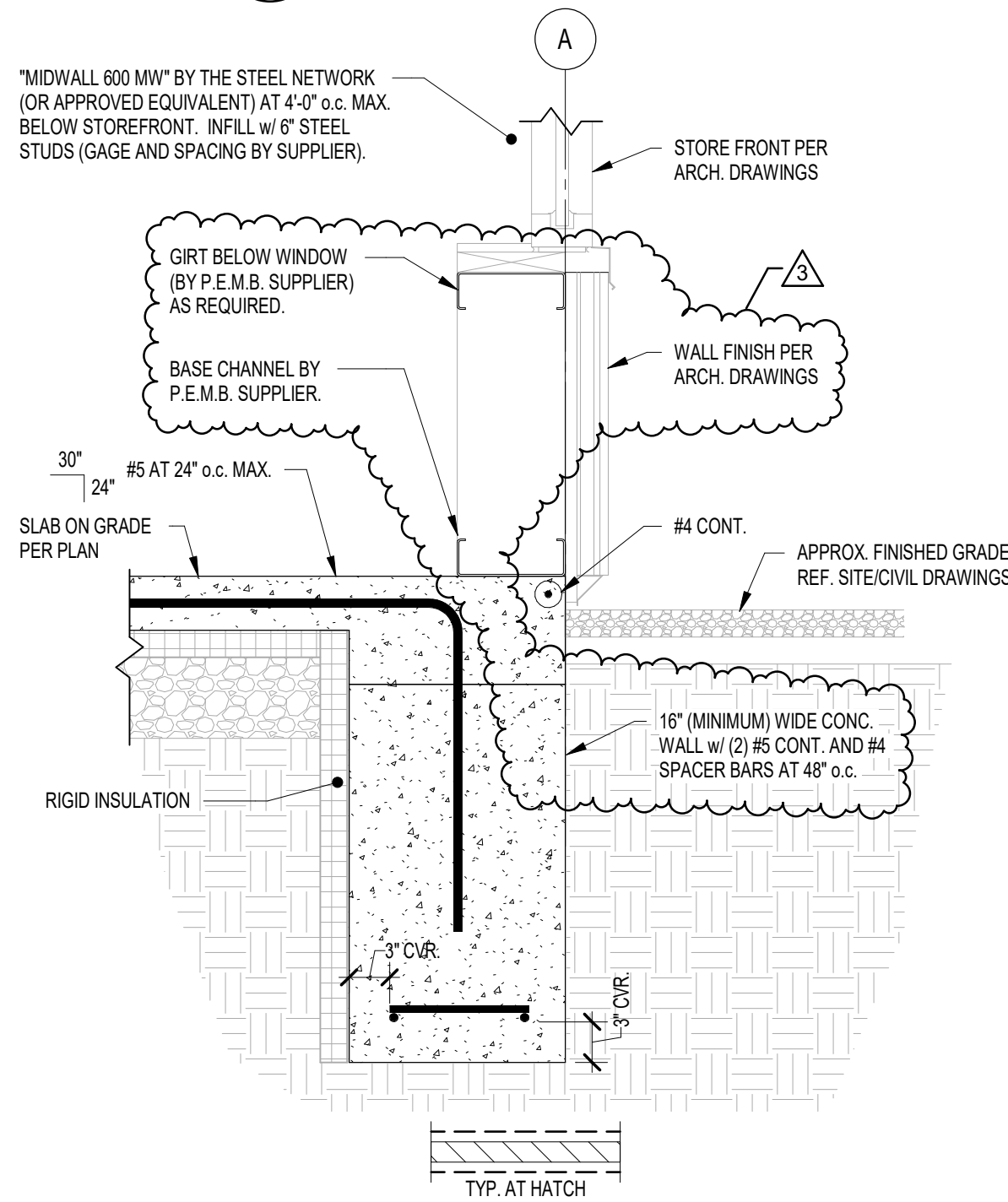




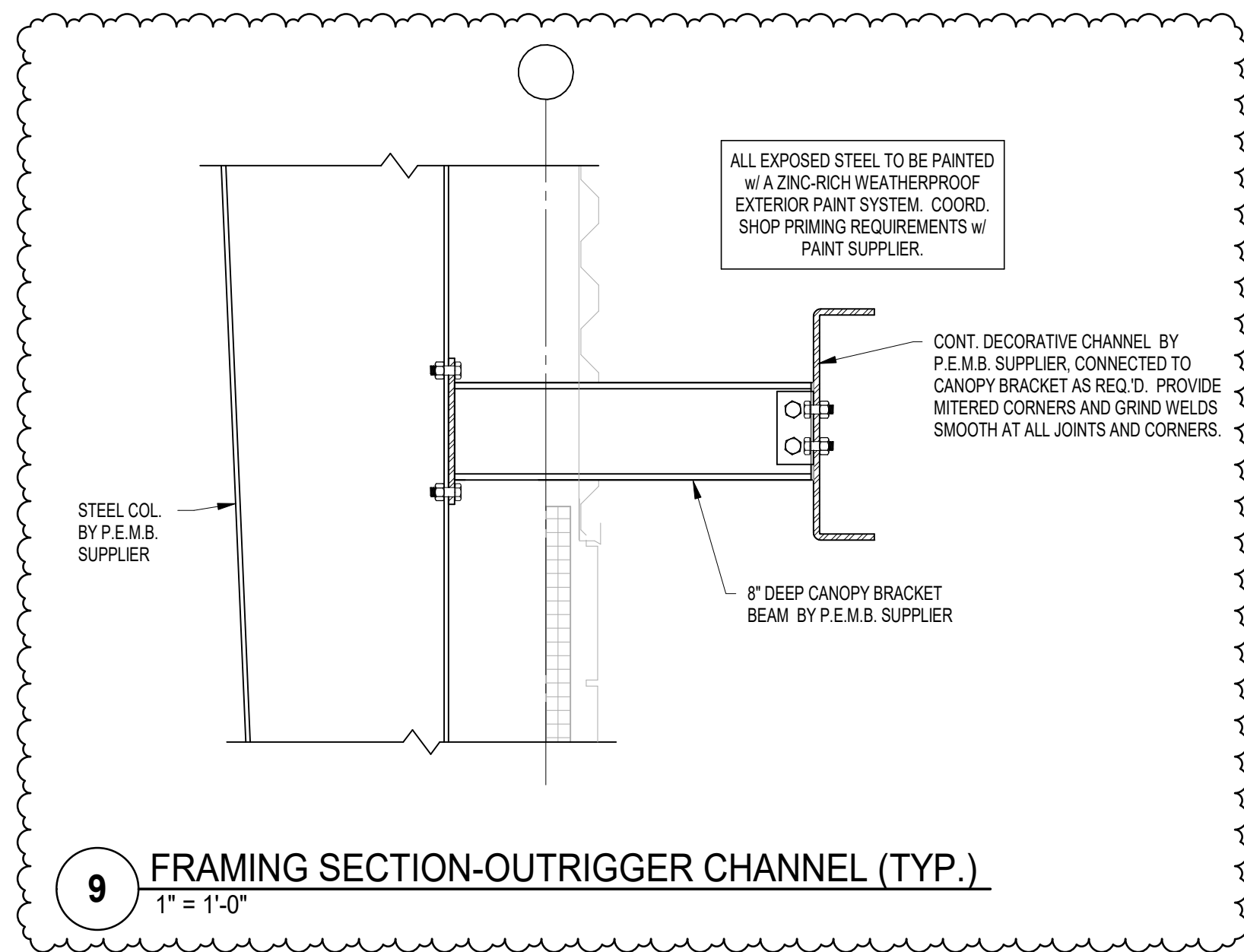
8 FOUNDATION SECTION  
1" = 1'-0"



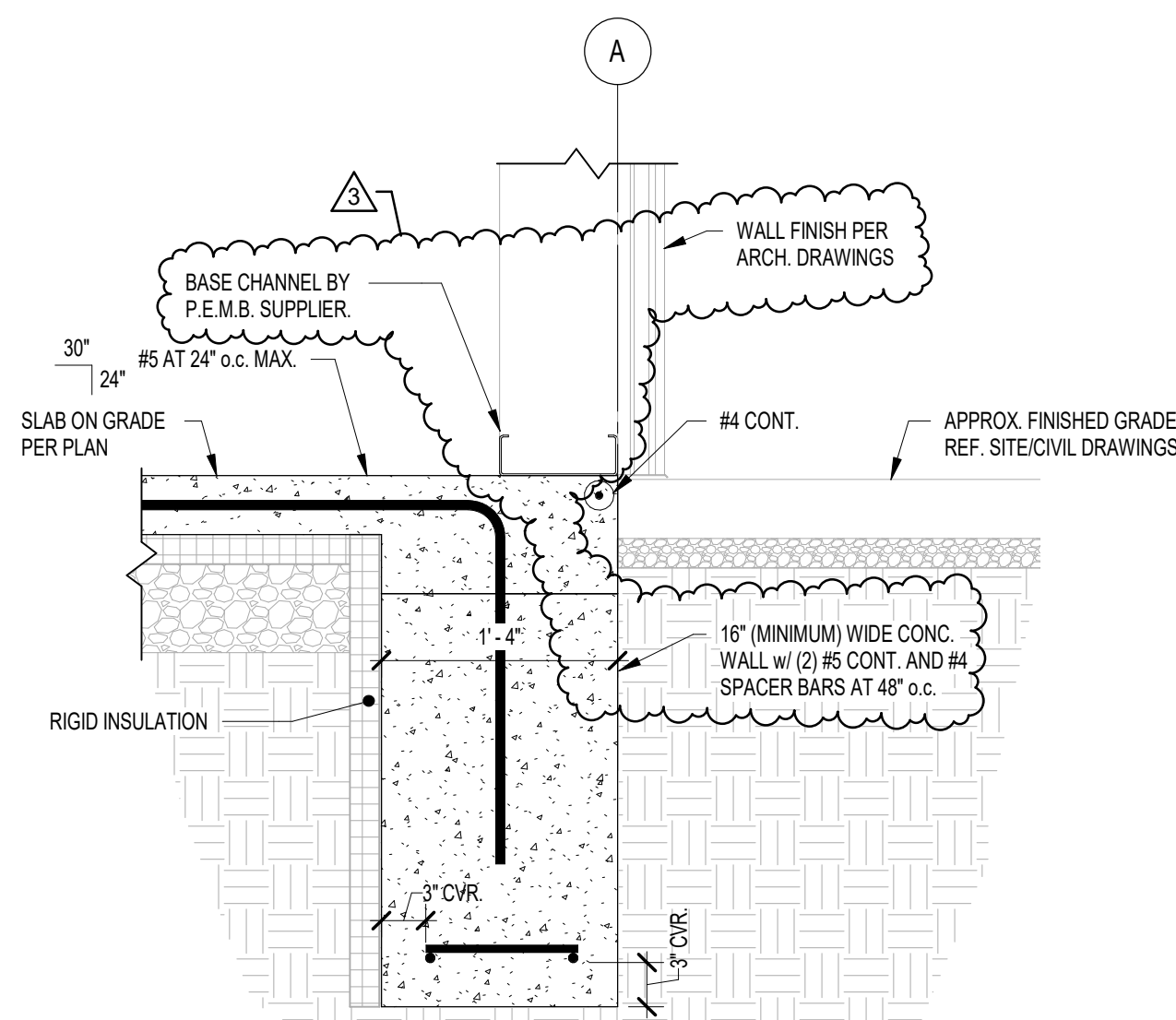
7 FOUNDATION SECTION  
1" = 1'-0"



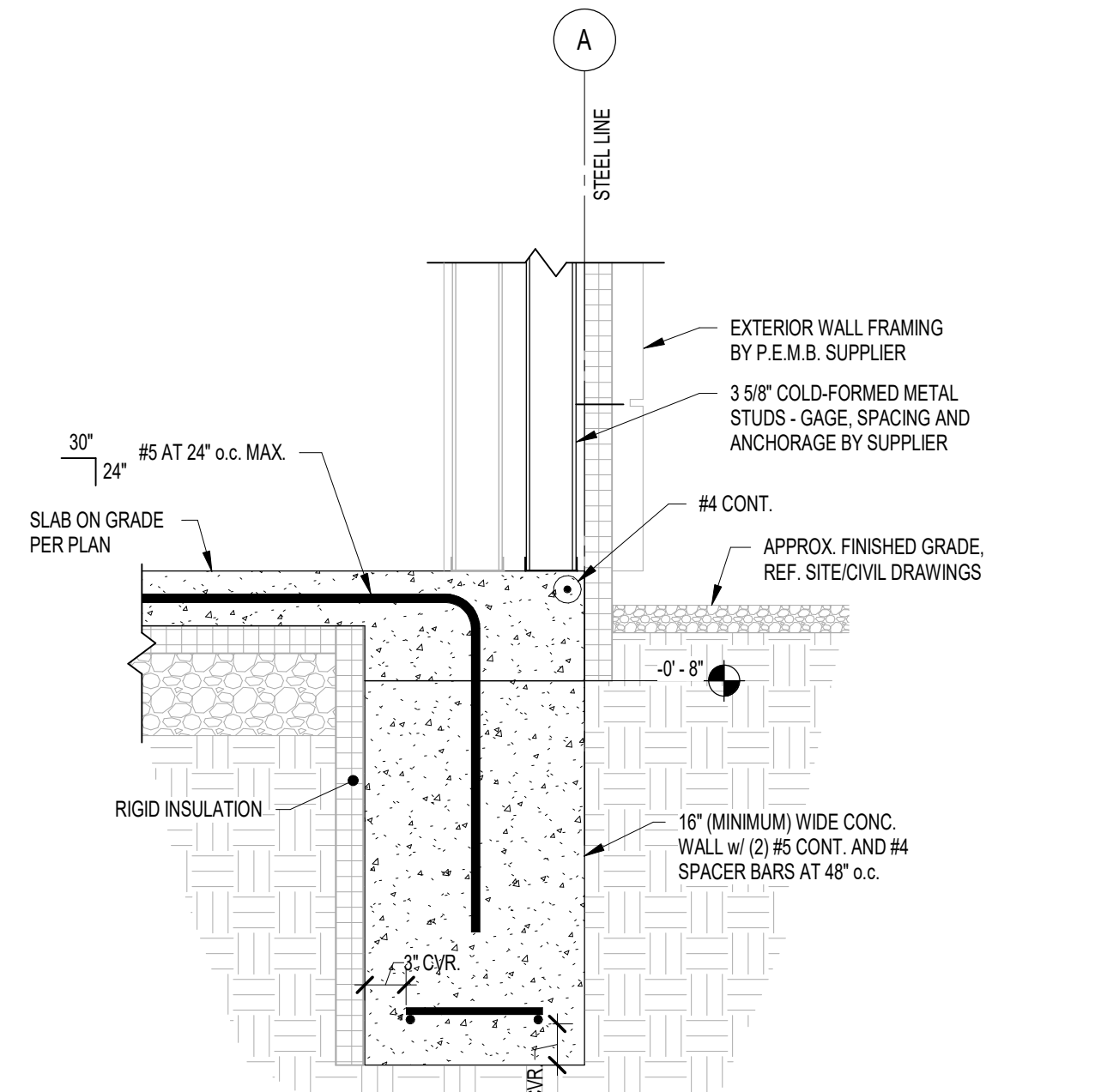
6 FOUNDATION SECTION  
1" = 1'-0"



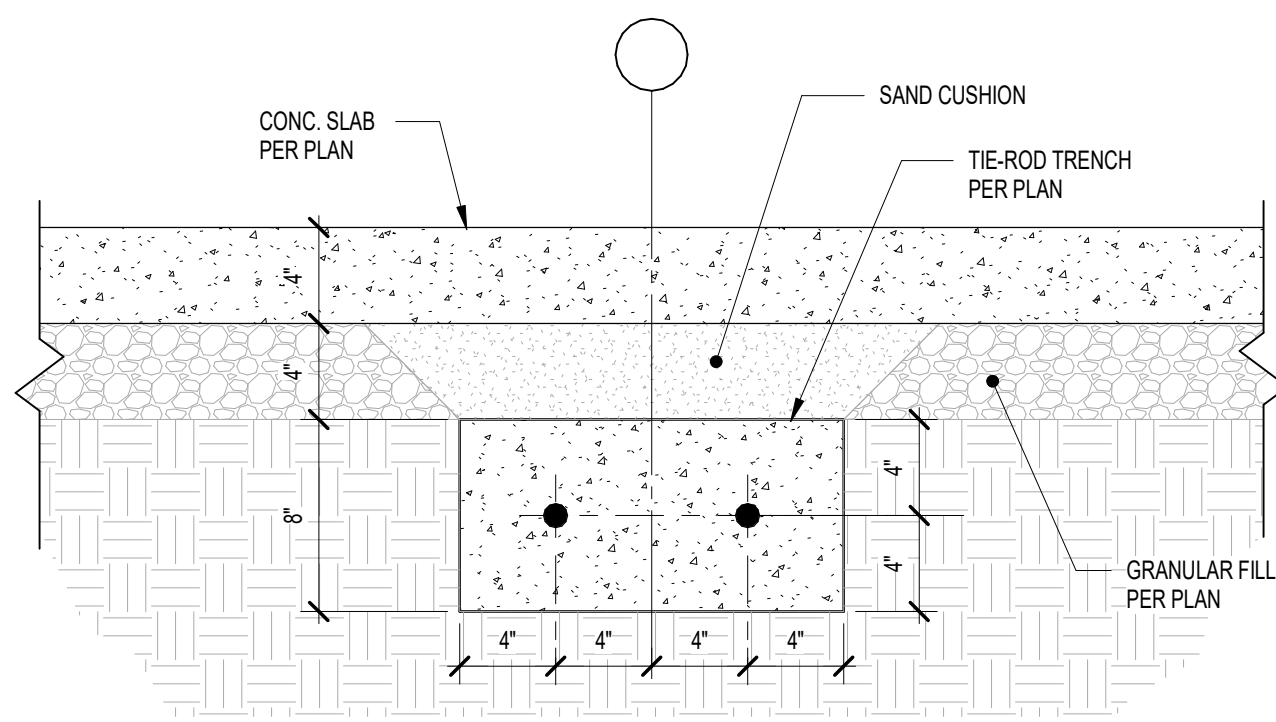
9 FRAMING SECTION-OUTRIGGER CHANNEL (TYP.)  
1" = 1'-0"



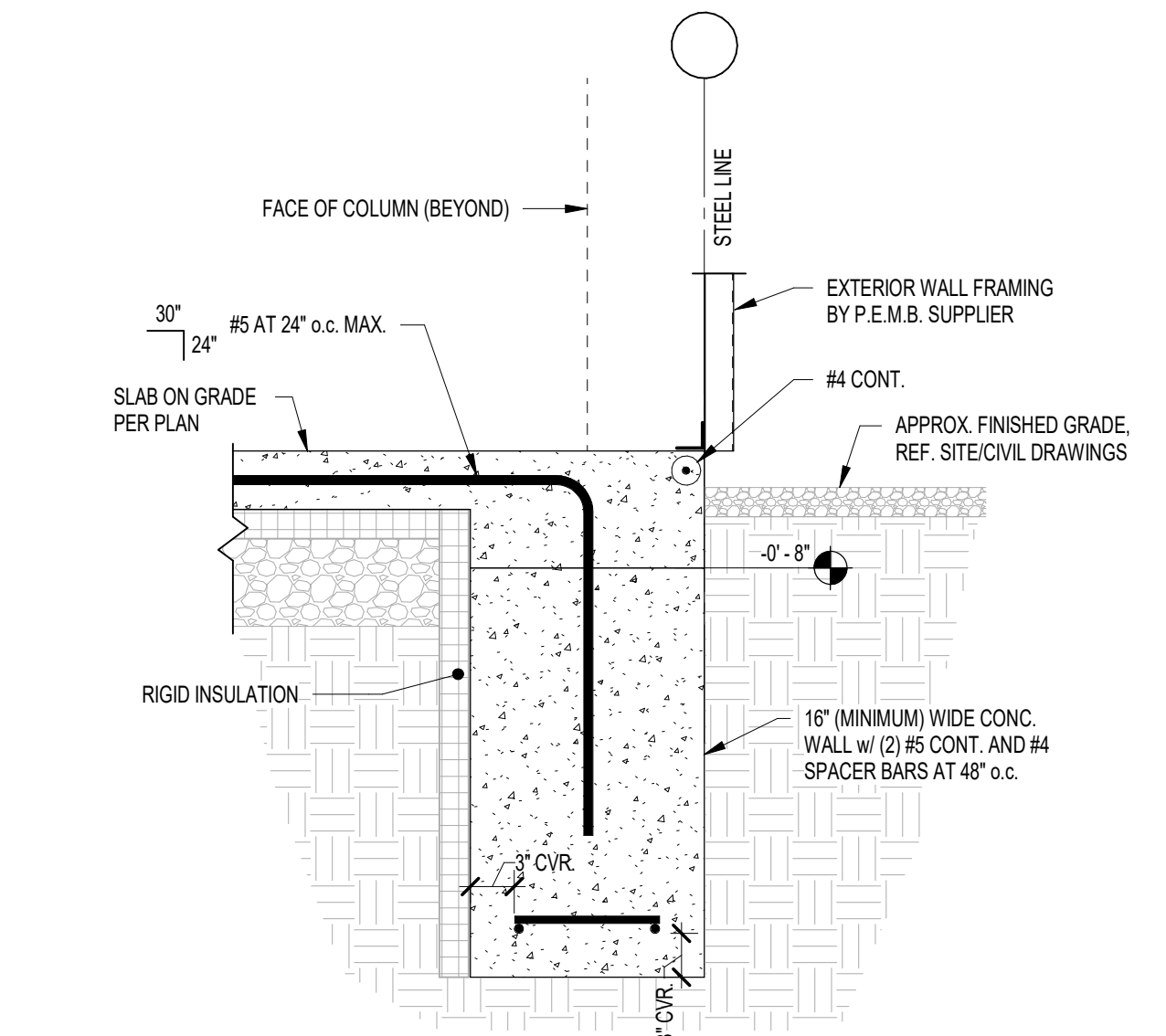
5 FOUNDATION SECTION  
1" = 1'-0"



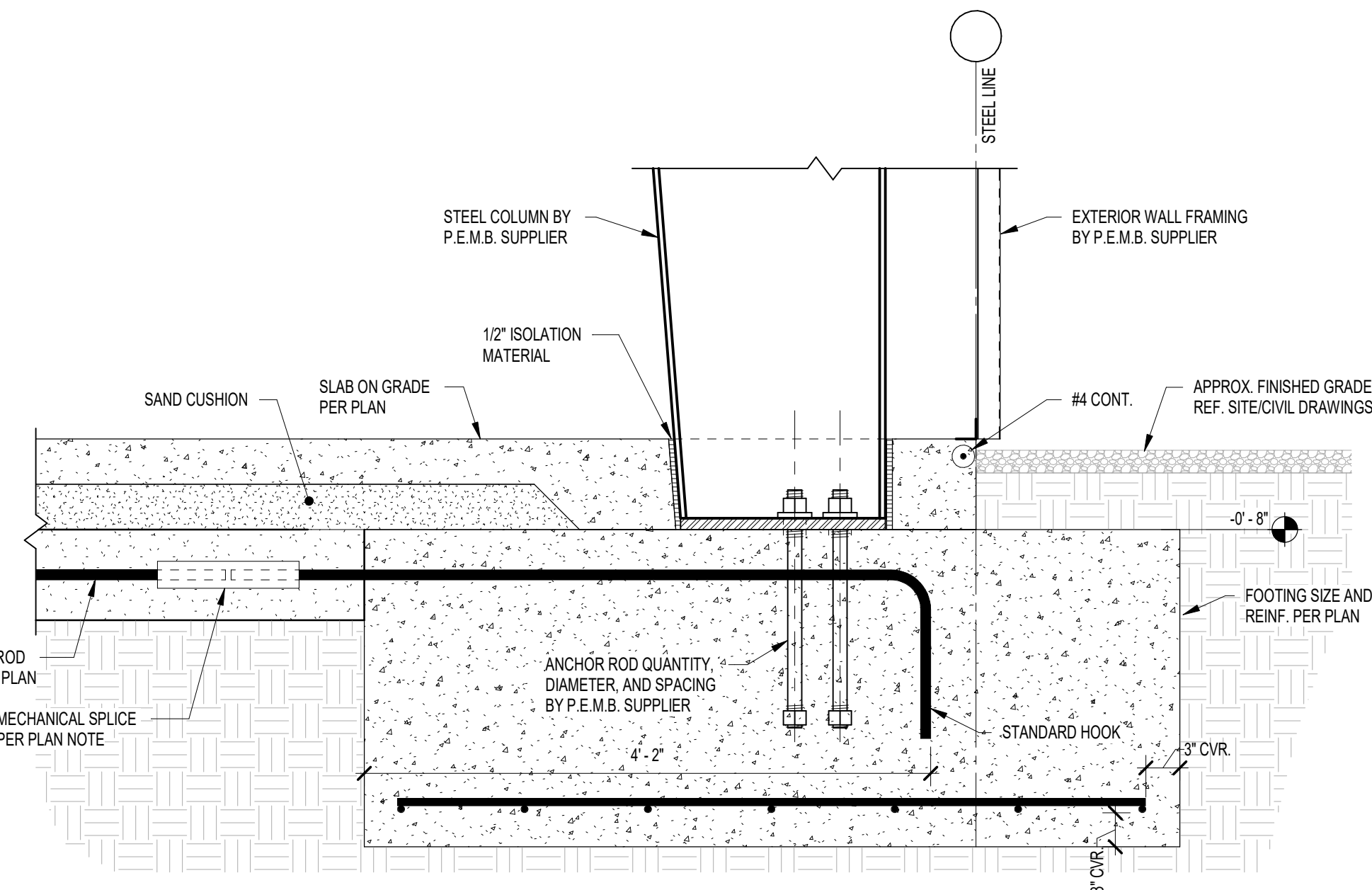
4 FOUNDATION SECTION  
1" = 1'-0"



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



2 FOUNDATION SECTION  
1" = 1'-0"



1 FOUNDATION SECTION  
1" = 1'-0"



## ABBREVIATIONS

# GENERAL PROJECT NOTES

THE FOLLOWING GENERAL NOTES ARE APPLICABLE THROUGHOUT THESE CONSTRUCTION DRAWINGS.

A. NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE THE CONTRACTOR FROM ITS RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH ALL OTHER SUBCONTRACTORS AND TRADES, OR RELEASE THE CONTRACTOR OF RESPONSIBILITY TO IDENTIFY AND RESOLVE DISCREPANCIES, THE CONTRACTOR OR ITS SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE CONTRACTOR OF RESPONSIBILITY TO ALERT THE ARCHITECT TO ERRORS OR OMISSIONS CONTAINED THEREIN.

B. THE CONTRACTOR AND ALL ITS SUBCONTRACTORS SHALL VERIFY IN THE FIELD ALL NEW AND EXISTING APPLICABLE CONDITIONS, DIMENSIONS, RELATIONSHIPS, ETC. SHOWN IN THESE DRAWINGS AND AS PERTINENT TO THE INTEREST OF THESE DRAWINGS, ANY DISCREPANCY OR ERROR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY OR RELATED TO SUCH DISCREPANCY. THE CONTRACTOR OR ITS SUBCONTRACTORS SHALL BE RESPONSIBLE ASSOCIATED WITH, OR CAUSED BY, ITS FAILURE TO COMPLY WITH THIS REQUIREMENT.

C. ELEVATION DRAUGHTS INCLUDING 'AFF' (ABOVE FINISH FLOOR) REFERENCE THE FINISHED SURFACE OF THE STRUCTURAL SUBFLOOR PRIOR TO THE APPLICATION OF FLOORING OR FLOOR FINISHES INDICATED ON THE INTERIOR FLOOR PLANS AND INTERIOR ROOM FINISH SCHEDULES UNLESS NOTED OTHERWISE, WHERE MINIMUM CLEAR HEIGHTS OR MAXIMUM HEIGHTS OF CEILINGWORK, EQUIPMENT, AND SHOWERS AND DIMENSIONS ARE REQUIRED BETWEEN THE TOP OF THE FINISHED FLOORING (AS INDICATED ON THE INTERIOR FLOOR PLANS AND INTERIOR ROOM FINISH PLANS).

D. COORDINATION PROVIDE AND MAINTAIN PROPER WALL ANCHORAGE, WALL BLOCKING AS REQUIRED FOR THE ANCHORAGE AND SUPPORT OF ALL NEW CASEWORK, TRIM, FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, HANGER RODS, TACK RODS, DOWEL HARDWARE ACCESSORIES, ETC., AS APPLICABLE.

E. AT ALL WALLS SCHEDULED TO RECEIVE CERAMIC TILE, PROVIDE GLASS MAT INTERIOR PERIMETER WALLBOARD FOR THE STANDARD 1/2" WALL BOARD IDENTIFIED IN THE WALL TYPES. REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS OF CERAMIC TILE. PROVIDE CEMENT BACKER BOARD AT NATURAL SUE TILE. REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS OF SUITE TILE.

F. AT ALL AREAS SCHEDULED TO EXISTING FLOOR COVERING OR WALL COVERING MATERIAL IS SHOWN TO BE REMOVED, THE CONTRACTOR SHALL PROPERLY PREPARE THE REMAINING SUB-SURFACE AS REQUIRED BY THE NEW COVERING MANUFACTURER SUCH THAT COVERING PROVIDED BY THE CONTRACTOR MEETS ALL MANUFACTURER'S REQUIREMENTS FOR THE COVERING MANUFACTURER.

G. CONTRACTOR SHALL ENSURE THAT ANY AND ALL BACKBOXES LOCATED WITHIN PARTY WALLS AND SEPARATE ROOMS ARE NOT CUTVATED EITHER SIDE OF ONE ANOTHER.

MATERIAL HATCH LEGEND

SYMBOL LEGEND

**arc**DESIGN  
architecture + interiors

201 N. Delaware Street, Suite B  
Indianapolis, IN 46204  
317.951.9192 | 317.951.9194  
www.arcdesign.us

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**HANNIG**  
CONSTRUCTION INC.

ANDREW J. HINE  
REGISTERED  
No.  
AR19300125  
STATE OF  
INDIANA  
ARCHITECT

*[Signature]*

INDIANAPOLIS, IN 46254

**PLUMBING & ACCESSORIES**

**LAVATORY, MIRROR & ACCESSORIES**

PAPER TOWEL DISPENSER  
MIRROR  
SOAP DISPENSER TYP. RIGHT OF SINK  
INSULATED PIPE WRAP

3'-5"  
3'-4"  
2'-10"

**LAVATORY, MIRROR, & ACCESSORIES ADJACENT TO WALL - FRONT VIEW**

3'-5"  
3'-4"  
2'-10"  
1'-5" MIN IF ADJACENT TO WALL U.N.O.

**LAVATORY, MIRROR, & ACCESSORIES ADJACENT TO WALL - SIDE VIEW**

MIRROR  
PAPER TOWEL DISPENSER  
SOAP DISPENSER  
INSULATED PIPE WRAP

3'-5"  
3'-4"  
2'-10"  
1'-5" MIN IF ADJACENT TO WALL U.N.O.

**LAVATORY & ACCESSORIES**

PAPER TOWEL DISPENSER  
SOAP DISPENSER TYP. RIGHT OF SINK  
INSULATED PIPE WRAP

3'-7"  
3'-10"  
2'-10"  
1'-3" MIN IF ADJACENT TO WALL U.N.O.

**COUNTERTOP SINK & ACCESSORIES**

PAPER TOWEL DISPENSER  
SOAP DISPENSER TYP. RIGHT OF SINK  
INSULATED PIPE WRAP  
PLAM APRON, PER TYP CASEWORK DETAILS

3'-2 1/4"  
3'-10"  
2'-10"  
1'-3" MIN IF ADJACENT TO WALL U.N.O.

**WATER CLOSET - FRONT VIEW**

WALL OR STALL  
30" GRAB BAR  
NOTE: DIMENSIONS SHOWN ARE TO FINISHED FACE OF WALL.

6"  
1'-0"  
3'-4"  
2'-0"  
2'-11"  
1'-6"  
1'-6"

**WATER CLOSET - SIDE VIEW**

2'-6"  
3'-4"  
3'-5 1/2"  
1'-3 1/16"

**URINAL**

WALL HUNG SCREENS, 24" WIDE  
3'-6"  
1'-6"  
1'-5" MAX  
1'-3" 1'-3"

**HOUSEKEEPING CLOSET MOP SINK**

4'-0" STAINLESS STEEL WALL PROTECTION AT SIDE & REAR TYP. AT MOP SINKS W/O WALL PROTECTION OR TILE SCHEDULED  
16" DEEP SHELF  
4'-0" O.C. MAXIMUM SHELF SUPPORT SPACING  
4'-6"

30"x48" MINIMUM MOP SINK

**MECHANICAL, ELECTRICAL, COMMUNICATIONS, AND FIRE PROTECTION**

Diagram illustrating the general device alignment for various systems (Life Safety, ELEC, SIGNS, MTD, LIGHT, VOICE/DATA) relative to the door frame and floor.

**Dimensions and Alignment:**

- Door Frame:** 4'-0" height, 1'-1 1/2" width.
- Device Height:** 8'-0" to 8'-6" from the bottom of the door lens.
- Device Spacing:** 3'-10" between devices, 2'-0" from the floor.
- Device Width:** 1'-0" (for voice/data/voice devices).
- Device Location:** Locate devices 6" from door/wall opening or as dimensioned. Locate at nearest met stud from location shown on floor plan.
- Device Types:**
  - LIFE SAFETY DEVICES: CENTER ABOVE ELEC DEVICES, SIGNS, OR FEC BELOW
  - WALL MTD SIGNAGE, WHERE SCHED
  - LIGHT SWITCHES, CARD READER, THERMOSTAT
  - VOICE/DATA/VOICE DEVICES, UON

**Typical Mounting Heights:**

14" = 1'-0"

**ACCESSORIES & MEDICAL EQUIPMENT**

4'-0" MAX  
1'-3" MIN

6'-0"

BULLETIN BOARD & WHITE BOARD

SPACING BETWEEN ACCESSORIES

ADJACENT WALL

TYP. SPACING

6'-0"

3'-0"

MIRROR FULL HEIGHT

6'-0"

3'-0"

MIRROR LAVATORY

2'-6"

SANITARY NAPKIN DISPOSAL

4'-0"

2'-10"

HYGIENE TOILET PAPER DISPENSER

1'-3"

3'-6"

WASTE

1'-6" IF ADJACENT TO DOOR

DOOR FRAME

3'-0"

TOWEL DISPENSER - ABOVE COUNTER & IN TOILET ROOMS

2'-7 1/2"

TOWEL DISPENSER - WALL MOUNTED (EXCEPT TOILET ROOMS)

3'-5"

TOWEL DISPENSER - INFRARED

FINISHED FLOOR

TO CEILING

CORNER GUARD C001

BASE AS SCHEDULED

3 02.11.2022 Addendum 3: Post Bid VE

DRAWING NUMBER:

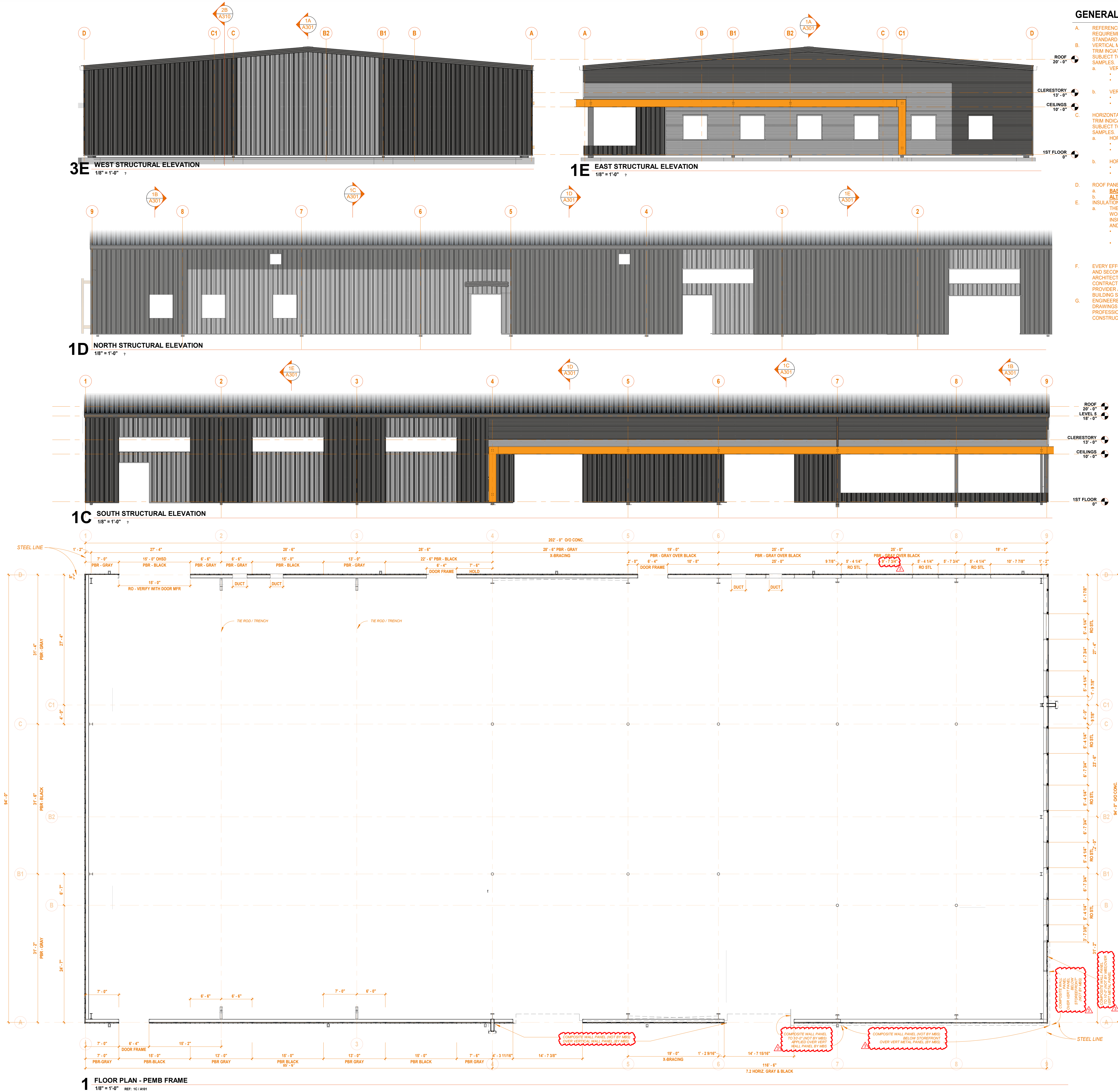
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GENERAL NOTES: CECO BUILDING SYSTEMS

- A. REFERENCE SPECIFICATION SECTION 13 34 19 METAL BUILDING SYSTEMS FOR QUALITY REQUIREMENTS. THIS SPECIFICATION WAS ADAPTED FROM CECO BUILDING SYSTEMS' STANDARD SPECIFICATION.
- B. VERTICAL METAL WALL PANEL SYSTEM BASED ON PBR PANEL PROFILE AND STANDARD TRIM INDICATED IN CECO LITERATURE UNLESS NOTED OTHERWISE. ALL SELECTIONS SUBJECT TO ARCHITECT/OWNER APPROVAL FOLLOWING SUBMITTAL OF PHYSICAL SAMPLES.
- a. VERTICAL METAL WALL PANEL COLOR "BLACK":
- BASE BID: SIGNATURE 300 PVDF LOW GLOSS "MIDNIGHT BRONZE"
  - ALTERNATE BID: SIGNATURE 200 PVDF SILICONIZED POLYESTER "COAL BLACK"
- b. VERTICAL METAL WALL PANEL COLOR "CHARCOAL GRAY":
- BASE BID: SIGNATURE 300 PVDF LOW GLOSS "SLATE GRAY"
  - ALTERNATE BID: SIGNATURE 200 SILICONIZED POLYESTER "CHARCOAL GRAY"
- C. HORIZONTAL METAL WALL PANEL SYSTEM BASED ON 7.2 PANEL PROFILE AND STANDARD TRIM INDICATED IN CECO LITERATURE UNLESS NOTED OTHERWISE. ALL SELECTIONS SUBJECT TO ARCHITECT/OWNER APPROVAL FOLLOWING SUBMITTAL OF PHYSICAL SAMPLES.
- a. HORIZONTAL METAL WALL PANEL COLOR "BLACK":
- BASE BID: SIGNATURE 300 PVDF LOW GLOSS "MIDNIGHT BRONZE"
  - ALTERNATE BID: SIGNATURE 200 PVDF SILICONIZED POLYESTER "COAL BLACK"
- b. HORIZONTAL METAL WALL PANEL COLOR "CHARCOAL GRAY":
- BASE BID: SIGNATURE 300 PVDF LOW GLOSS "SLATE GRAY"
  - ALTERNATE BID: SIGNATURE 200 SILICONIZED POLYESTER "CHARCOAL GRAY"
- D. ROOF PANELS ARE DOUBLE-LOK PROFILE:
- a. BASE BID: SIGNATURE 300 PVDF LOW GLOSS "SLATE GRAY"
- b. ALTERNATE BID: GALVALUME PLUS.
- E. INSULATION:
- a. THE BUILDING HAS BEEN DESIGNED TO INCLUDE MORE INSULATION THAN THE WORST BUILDING THE GOVERNMENT WILL ALLOW TO BE BUILT. INCREASING INSULATION AT THE TIME OF CONSTRUCTION DECREASES ENERGY AND HEATING AND COOLING EQUIPMENT COSTS OVER THE LIFETIME OF THE BUILDING.
- BASE BID: STANDARD R-19 "SAG & BAG" METAL BUILDING INSULATION WITH AIR BARRIER AT WALLS AND ROOF.
  - ALTERNATE BID: THERM-ALL PROLINER ROOF METAL INSULATION SYSTEM. ROOF: R-19 + R-11 WITH THERMAL SPACER BLOCKS (U-FACTOR 0.044 TOTAL ROOF) WALL: THERM-ALL PROLINER WALL INSULATION SYSTEM R-25 MBH (U-FACTOR 0.057)
- F. EVERY EFFORT HAS BEEN MADE TO REPRESENT LOCATIONS OF PRIMARY STEEL FRAMES AND SECONDARY STEEL GRIDS AND PURLINS TO FACILITATE INTEGRATION OF ARCHITECTURAL ELEMENTS INTO THE ENGINEERED METAL BUILDING SYSTEM. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND COORDINATE WITH METAL BUILDING PROVIDER ALL ELEMENTS REQUIRED, EXPRESSED OR IMPLIED, FOR A COMPLETE BUILDING SOLUTION.
- G. ENGINEERED METAL BUILDING PROVIDER SHALL SUBMIT TO THE ARCHITECT CERTIFIED DRAWINGS BY AN ENGINEER LICENSED IN THE STATE OF INDIANA AND A SIGNED DESIGN PROFESSIONAL CERTIFICATE REQUIRED FOR THE STATE OF INDIANA APPLICATION FOR CONSTRUCTION DESIGN RELEASE NOT LATER THAN MARCH 1, 2022.

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.

INDIANAPOLIS, IN 46254

PERMIT SET

REVISIONS:

- 2 01.14.2022 Addendum 2: Bid Set  
3 02.11.2022 Addendum 3: Post Bid VE

DATE:

02.11.2022

arcDESIGN PROJECT NUMBER:

21102

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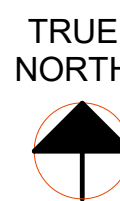
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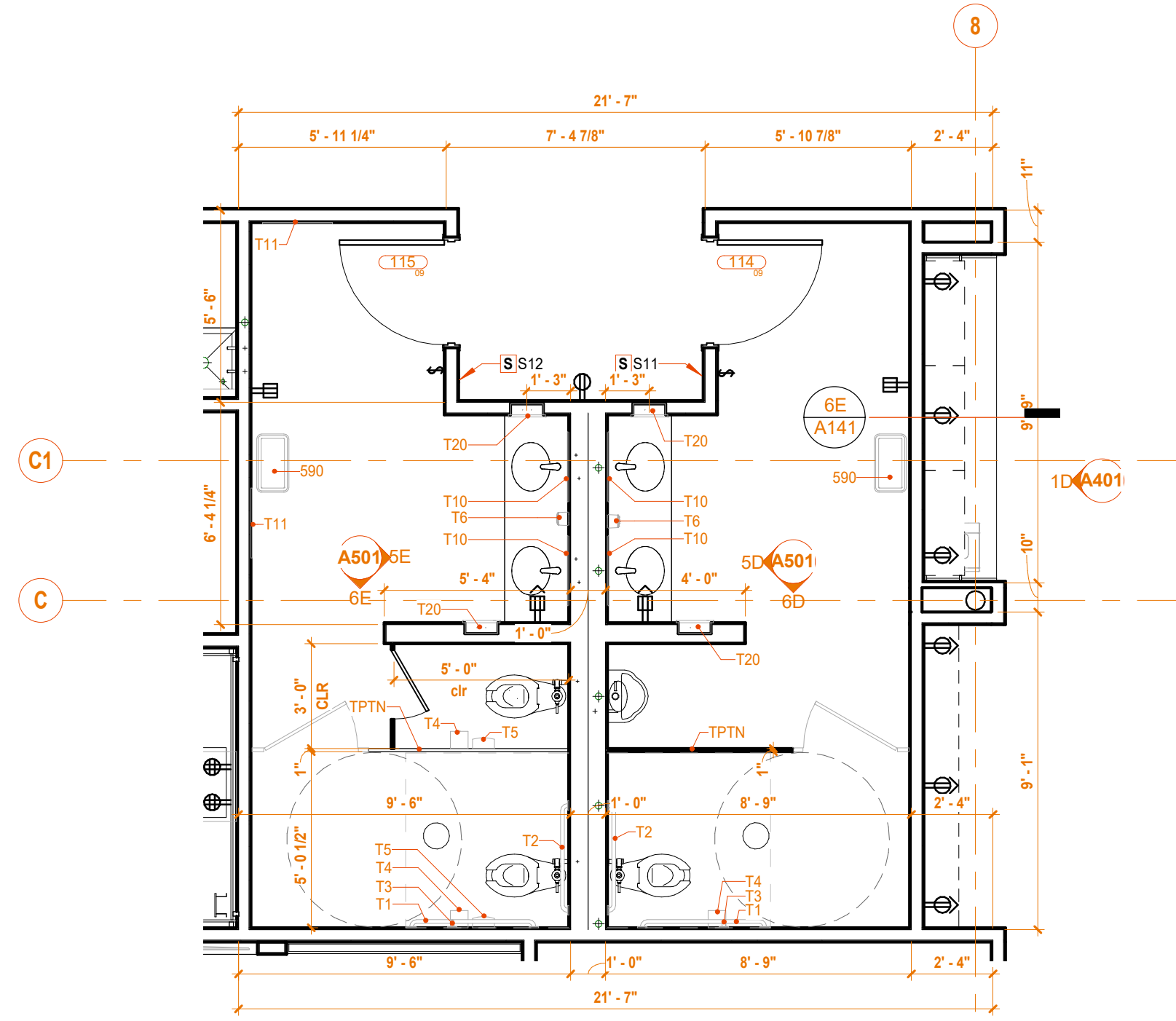
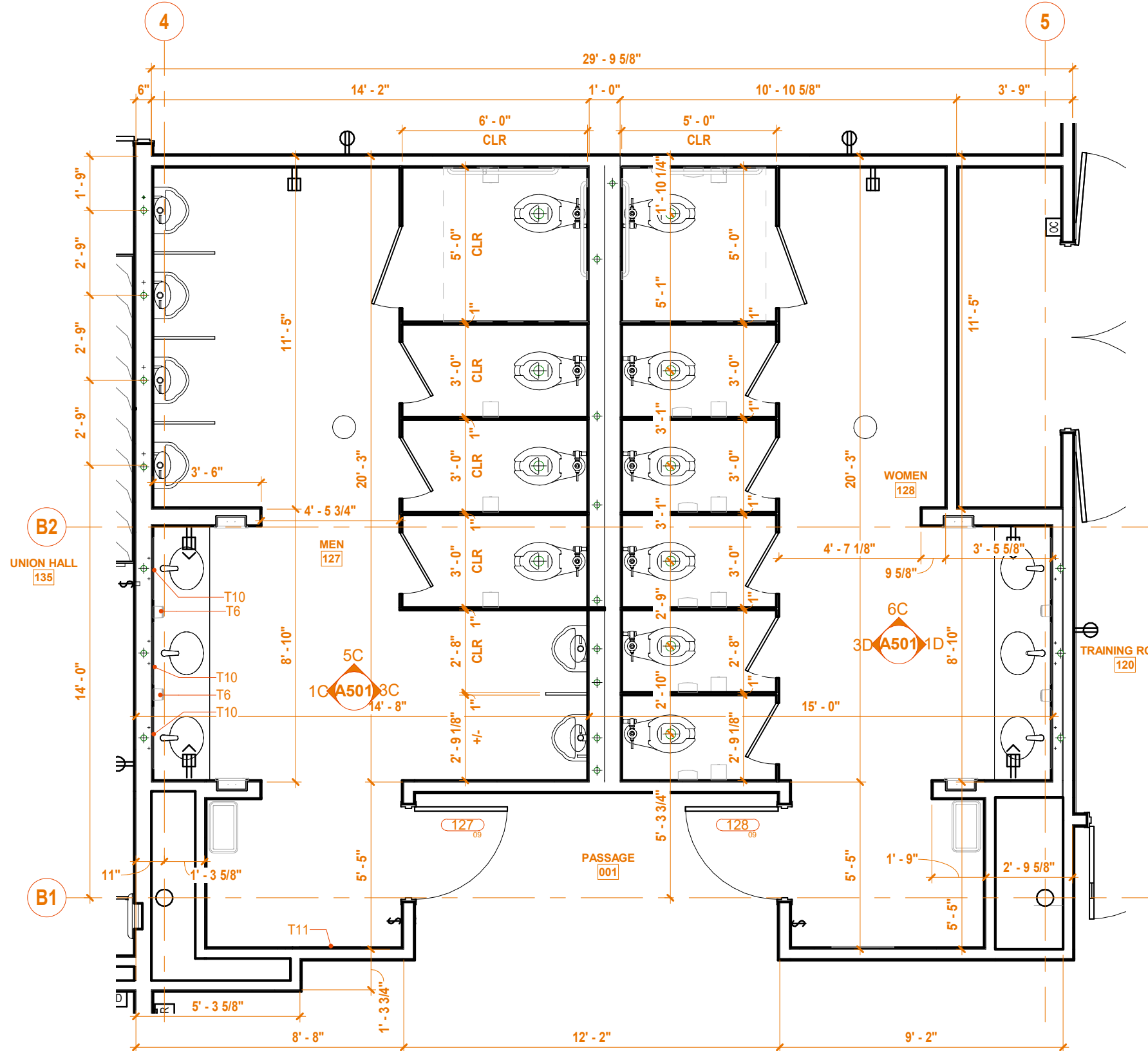
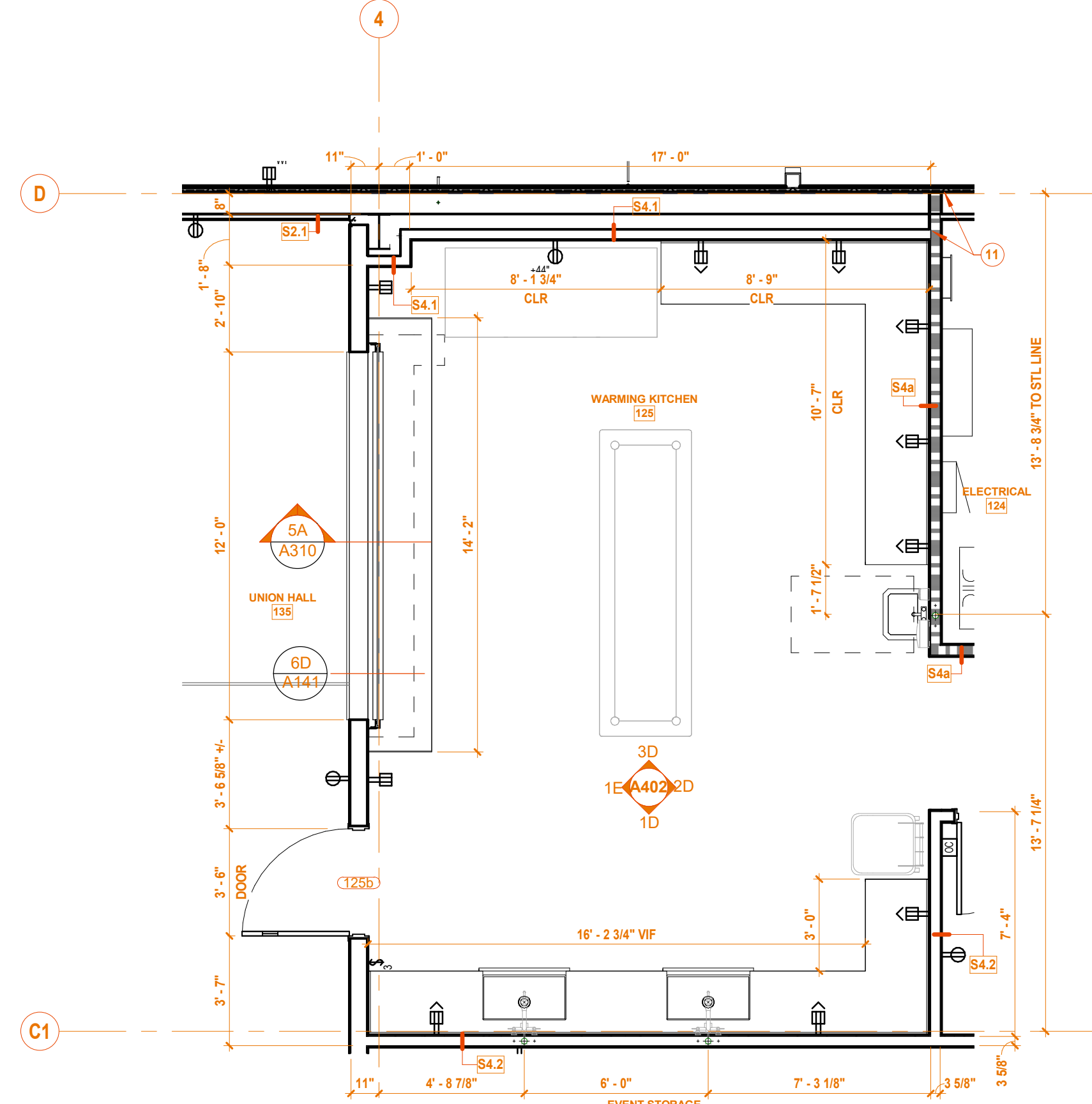
ARCHITECTURAL  
METAL BUILDING  
PLAN

DRAWING NUMBER:

A101





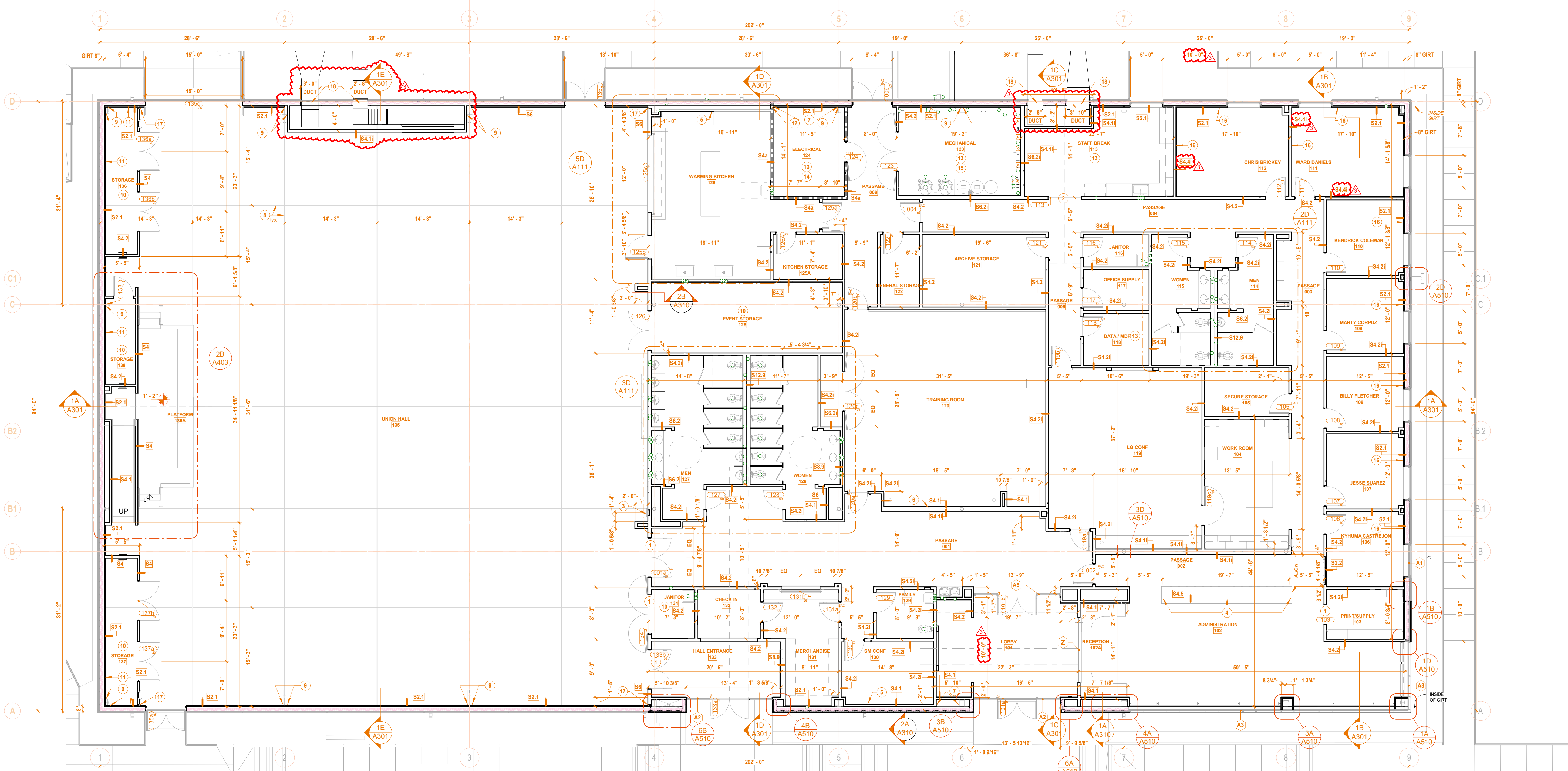


GENERAL NOTES: DIMENSION PLANS

- ALL FLOOR PLAN DIMENSIONS SHOWN ON THE NEW FLOOR PLANS ARE FROM FACE OF STUD OR FACE OF MASONRY, WHERE NOTED OTHERWISE BY THE DESIGNATIONS "CLR", "CLEAR", OR "MIN". DIMENSIONS ARE FROM FINISHED OR EXPOSED FACE OF WALL.
- WALLS NOT TAGGED ARE TYPE S4.2. WALLS MAY EXTEND TO STRUCTURE WITH GYPSUM BOARD EXTENDING 12" ABOVE ADJACENT CEILINGS OR TERMINATE 12" ABOVE ADJACENT CEILINGS WITH HICKER OR OTHER BRACING TO STRUCTURE.
- ALL NEW HOLLOW METAL (HM), DOOR FRAMES ARE LOCATED 4" FROM THE ADJACENT WALL FACE (TO OUTER EDGE OF FRAME) UNLESS DIMENSIONED OR DETAILED OTHERWISE.
- WHERE CALLOUTS ARE SHOWN, REFERENCE VIEWS INDICATED FOR DIMENSIONS AND MATERIALS.
- REFERENCE WALL TYPES ON SHEET A010 FOR MATERIALS AND DIMENSIONS OF INTERIOR WALLS.
- REFERENCE FRAME ELEVATIONS FOR DIMENSIONS OF FRAME ASSEMBLIES FOR STOREFRONTS AND CURTAIN WALLS.
- REFERENCE DOOR SCHEDULE FOR DOOR SIZES.
- WHERE WALLS ARE ADJACENT TO OR TERMINATE AT THE INSIDE OF STEEL GIRTS OF THE EXTERIOR WALLS, ATTACH FRAMING TO GIRTS.
- AT S2.1 WALLS, ATTACH INTERIOR METAL STUD FRAMING TO GIRTS.

PLAN NOTES - DIMENSION PLAN

- CENTER FRAME / DOOR IN WALL / ROOM
- CENTER FRAME/DOOR ON PASSAGE 005
- FIRE EXTINGUISHER CABINET
- FILE NICHE. SEE A 121 FOR ENLARGED PLAN AND DETAILS.
- PLACE WALL FRAMING 1" FROM ENGINEERED METAL BUILDING CROSS BRACING
- POSITION EACH WALL, SUCH THAT ENGINEERED METAL BUILDING COLUMN IS ENCLOSED WITHIN GYPSUM BOARD.
- ENGINEERED METAL BUILDING CROSS BRACING THIS LOCATION
- CONTROL JOINT
- CAULK CHANNEL TEAR AWAY BEAD AT METAL BUILDING FRAME. SEALANT TO MATCH FRAME COLOR.
- PROVIDE 20 GA. SHEET METAL BACKING PLATE TO 12" AFF FOR STORAGE CART PROTECTION AT ALL WALLS THIS ROOM.
- TERMINATE WALL AT FIRST PEMB GIRT ABOVE 10'-0"
- MAINTAIN 1-HR FIRE RESISTIVE CONSTRUCTION TO PEMB SHEET METAL SURFACE. PROVIDE FIRE-CAULKING AT JOINT BETWEEN WALL END AND SHEET METAL.
- WALL CONSTRUCTION TERMINATES AT HARD LID ABOVE. REFERENCE REFLECTED CEILING PLAN AND CLERESTORY BRACING PLAN.
- PERMANENTLY LABEL ALL RATED WALLS CONCERNING PENETRATION FIRESTOPPING SYSTEMS AS FOLLOWS: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS," using lettering not less than 3 inches high and with minimum 0.375-inch strokes.
- PROVIDE ACOUSTIC SEALANT AT ALL PENETRATIONS OF WALLS OR CEILING BY PIPING, CONDUITS, DUCTS, OR OTHER ITEMS.
- PROVIDE BLOCKING THIS WALL FROM 8'-0" TO 10'-0" FOR OWNER PROVIDED FURNISHINGS AND DECOR.
- 2" EXPANSION JOINT
- CONFORM R.O. SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.



REVISIONS:

- 01.07.2022 Addendum 1: Bid Set
- 02.11.2022 Addendum 3: Post Bid VE

DATE:  
02.11.2022

arcDESIGN PROJECT NUMBER:  
21102

DRAWN BY:  
ad  
DRAWING TITLE:

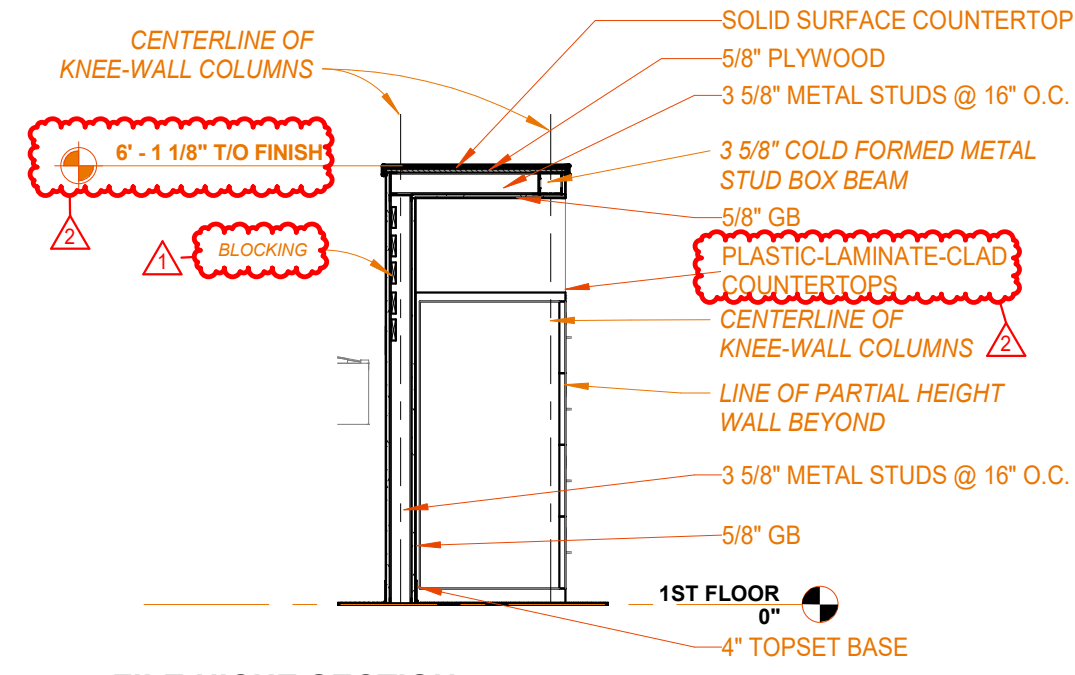
DIMENSION  
PLAN

DRAWING NUMBER:

A111



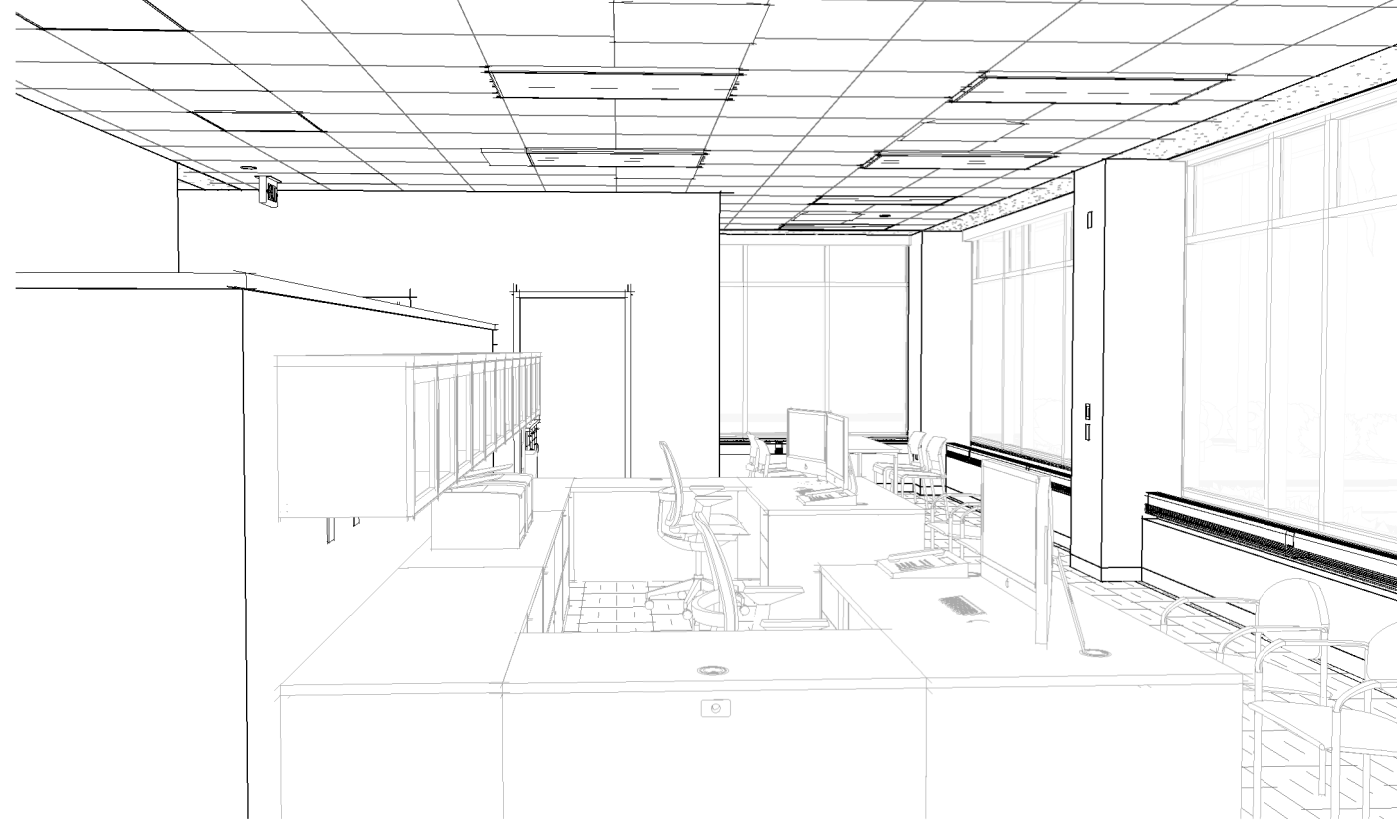




5E FILE NICHE SECTION  
3/8\"/>



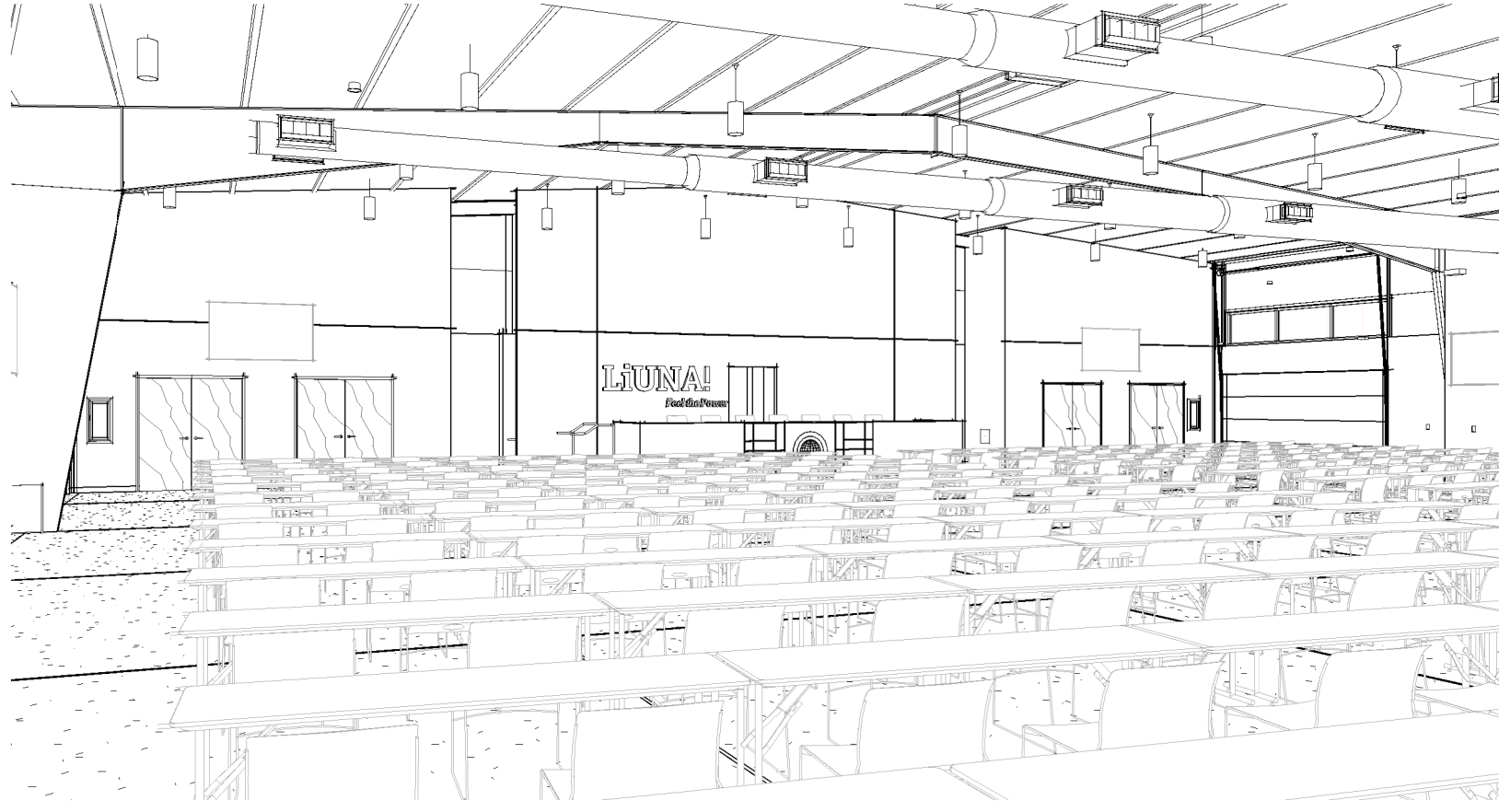
TRAINING LOOKING SOUTH



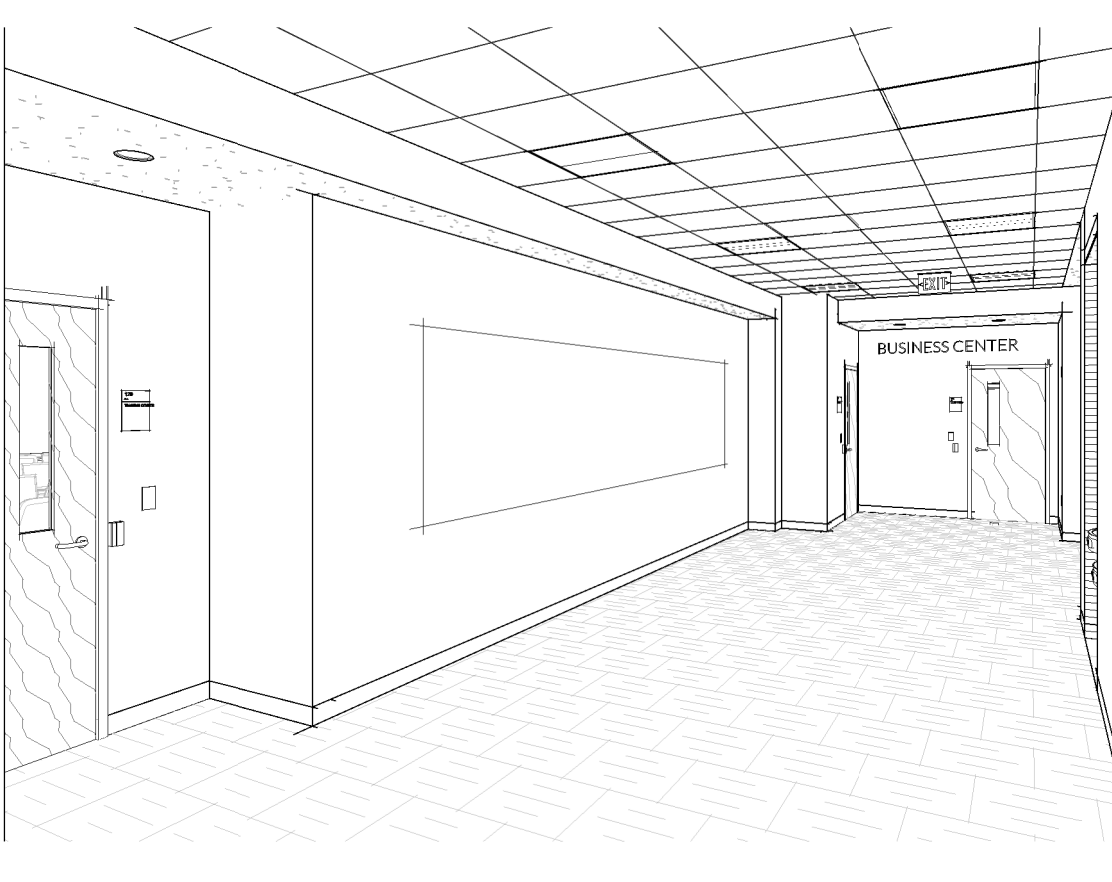
ADMIN LOOKING EAST



ADMIN LOOKING WEST



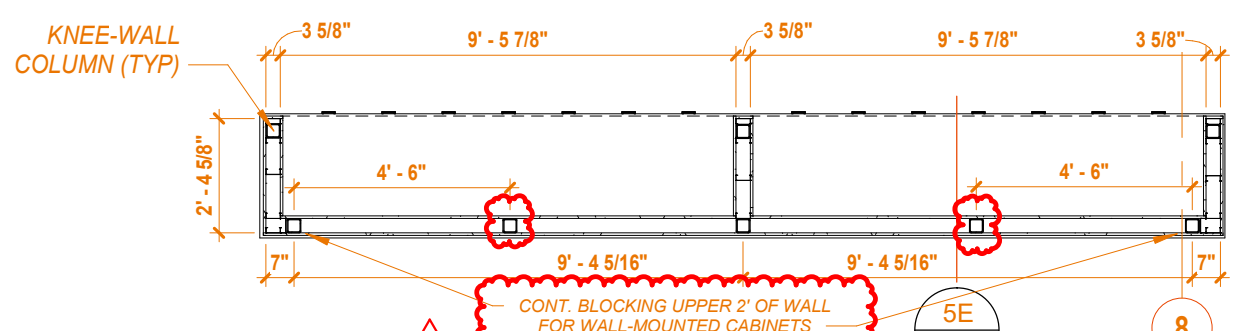
HALL LOOKING WEST



PASSAGE 001 LOOKING EAST



PASSAGE 001 LOOKING WEST



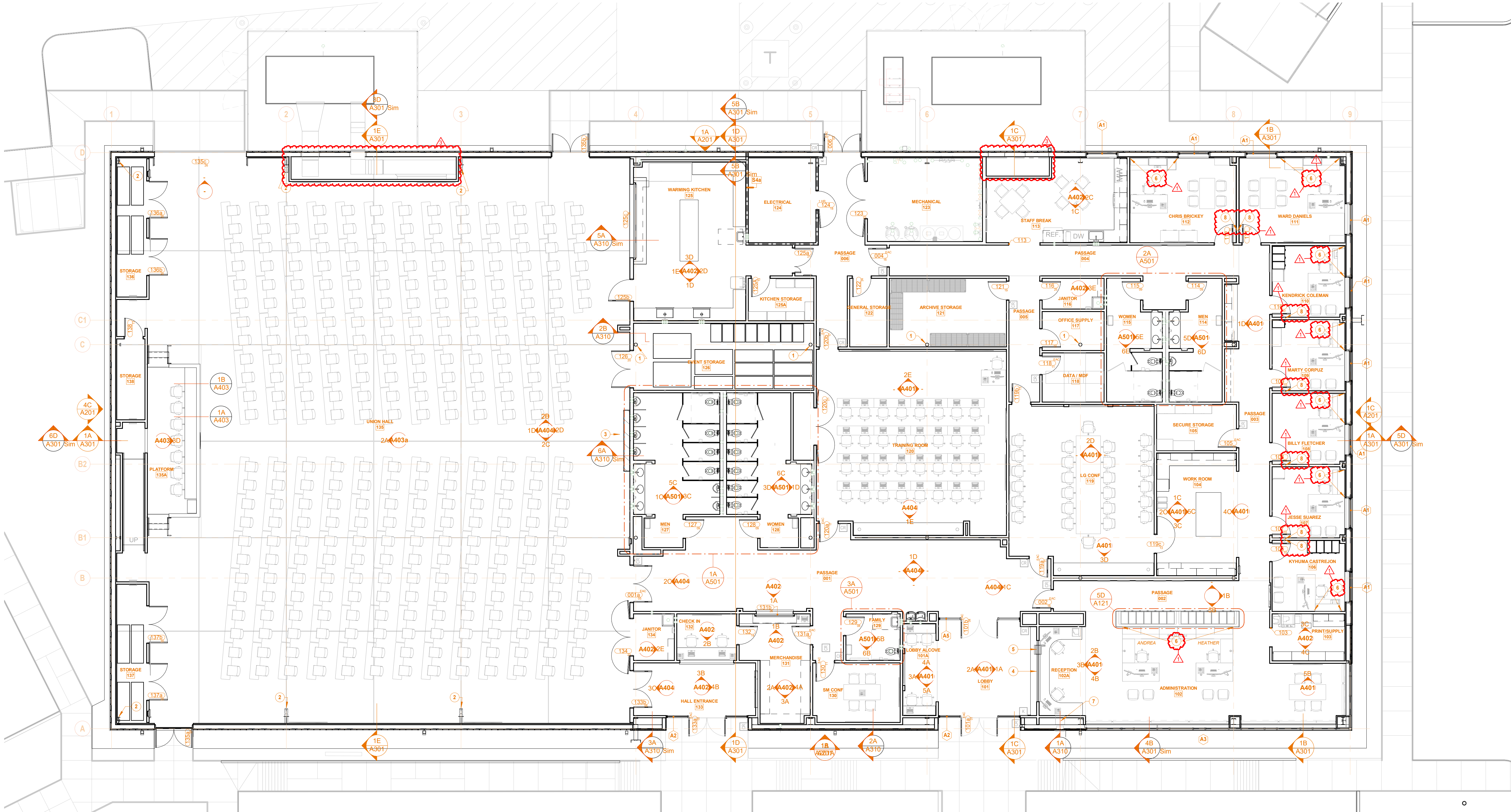
5D ENLARGED PLAN - FILE NICHE  
1/4\"/>

GENERAL NOTES: ARCHITECTURAL PLANS

- A. REFERENCE SHEET A010 FOR INTERIOR WALL TYPES INDICATED BY WALL TYPE TAGS.  
B. REFERENCE SHEET A011 FOR EXTERIOR WALL TYPES INDICATED BY WALL TYPE TAGS.  
C. REFERENCE SHEET A110 SERIES FOR DIMENSION PLANS.  
D. SEE SHEET A152 "ROOM FINISH SCHEDULE AND INTERIOR FINISH LEGEND FOR FINISHES SUCH AS FLOORING, PAINT OR COVERINGS APPLIED TO WALL AND FLOOR CONSTRUCTION.

PLAN NOTES - FLOOR PLAN

1. EXPOSED STRUCTURAL STEEL COLUMN. PAINT P-2.  
2. EXPOSED STRUCTURAL STEEL FRAME. PAINT P-2.  
3. SALVAGED AND REINSTALLED MEMORIAL DISPLAY CASE. REF. E-SERIES FOR POWER AND SWITCHING DEVICES.  
4. PASS WINDOW - REF. SPECIFICATIONS.  
5. DEAL TRAY - REF. EQUIPMENT PLAN.  
6. BLOCKING IN WALL FOR WALL-HUNG SYSTEM FURNITURE.  
7. ENVELOPE DROP.  
8. BLOCKING IN WALL FOR WALL-HUNG COAT HOOKS.



1A FLOOR PLAN - FIRST FLOOR  
1/8\"/>



**SCHEDULE NOTES: (S) SIGNAGE SCHEDULE**

A. SIGNAGE APPEARING IN THIS SCHEDULE IS INCLUDED IN THE PROJECT UNLESS NOTED OTHERWISE.

B. REFERENCE INTERIOR AND EXTERIOR FLOOR PLANS AND ELEVATIONS FOR SIGNAGE INCLUDED IN THIS SCHEDULE.

The floor plan shows the second floor of the Convention Center, featuring a large seating area on the left, a kitchen and storage area in the center, and a merchandise area on the right. Red dashed boxes and arrows highlight specific areas of interest, such as the kitchen, storage, and merchandise areas. The plan also includes a legend for room numbers and a scale bar.

**Room Numbers and Labels:**

- 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 88

The floor plan shows a complex layout of rooms and corridors. Key areas include:

- Upper Left:** A large rectangular area highlighted with a red dashed line, containing rooms 504, 502, 500, 501, 503, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
- Upper Right:** A large rectangular area highlighted with a red dashed line, containing rooms 504, 502, 500, 501, 503, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775,

A. EQUIPMENT OCCURRING IN THIS SCHEDULE IS INCLUDED IN THE PROJECT, THE RESPONSIBILITY TO RUGH-IN, FURNISH, AND/OR INSTALL, IS IDENTIFIED TO THE PARTY WITH THE MOST EXTENSIVE KNOWLEDGE OF THE PROJECT AND THE GENERAL CONTRACTOR FOR THE PURPOSES OF ACCOMPLISHING THE WORK.

B. DEFINITIONS:

- a. FURNISH: PURCHASE, STORE, DELIVER TO THE SITE READY FOR INSTALLATION b. INSTALL: c. PROVIDE: FURNISH AND INSTALL

C. (FCI) CONTRACTOR FURNISHED: CONTRACTOR INSTALLED MEANS ALL SCOPE TO PROVIDE THE SUCCESSFUL OPERATION OF THE ITEM INDICATED IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION.

D. (FCI) CONTRACTOR FURNISHED: CONTRACTOR INSTALLED MEANS THE OWNER OR OWNER'S SUPPLIER WILL DELIVER THE ITEM INDICATED TO THE PROJECT AT THE APPROPRIATE TIME, READY FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RUGH-IN AND/OR THE REQUIREMENTS OF THE ITEM IF IT'S SUCCESSFUL INTENDED OPERATION. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE EARLIEST POSSIBLE TIME WHEN THE ITEMS TO BE FURNISHED ARE SCHEDULED TO BE INSTALLED.

E. (FCI) OWNER FURNISHED: OWNER INSTALLED MEANS THE OWNER WILL PROVIDE THE ITEM AND THE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RUGH-IN, POWER, ETC. AS INDICATED ELSEWHERE IN THE DOCUMENTS. CONTRACTOR SHALL NOTIFY THE OWNER WHEN ITEMS ARE ABLE TO BE PROVIDED.

F. (FCI) OWNER FURNISHED: OWNER INSTALLED MEANS THE OWNER'S VENDOR WILL PROVIDE THE ITEM INDICATED. CONTRACTOR PROVIDES ALL BLOCKING, RUGH-IN, CABLING, POWER, ETC. AS INDICATED ELSEWHERE IN THE DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN THE ITEMS TO BE INSTALLED ARE SCHEDULED TO BE PROVIDED.

## PLAN NOTES - EQUIPMENT PLAN

1 REFER TO ENLARGED PLANS ON A501 FOR TOILET ACCESSORIES IN RESTROOMS  
2 REFER TO SHEET A501 FOR TOILET ACCESSORIES SCHEDULE.  
3 MAXIMUM OCCUPANCE OF HALL = 980 (7 SF/PERSON)

PERMIT SET

△ REVISIONS:

1	01.07.2022	Addendum 1: Bid Set
2	01.14.2022	Addendum 2: Bid Set
3	02.11.2022	Addendum 3: Post Bid VE

DATE:  
**02.11.2022**

arcDESIGN PROJECT NUMBER:  
**21102**

DRAWN BY:  
**aD**

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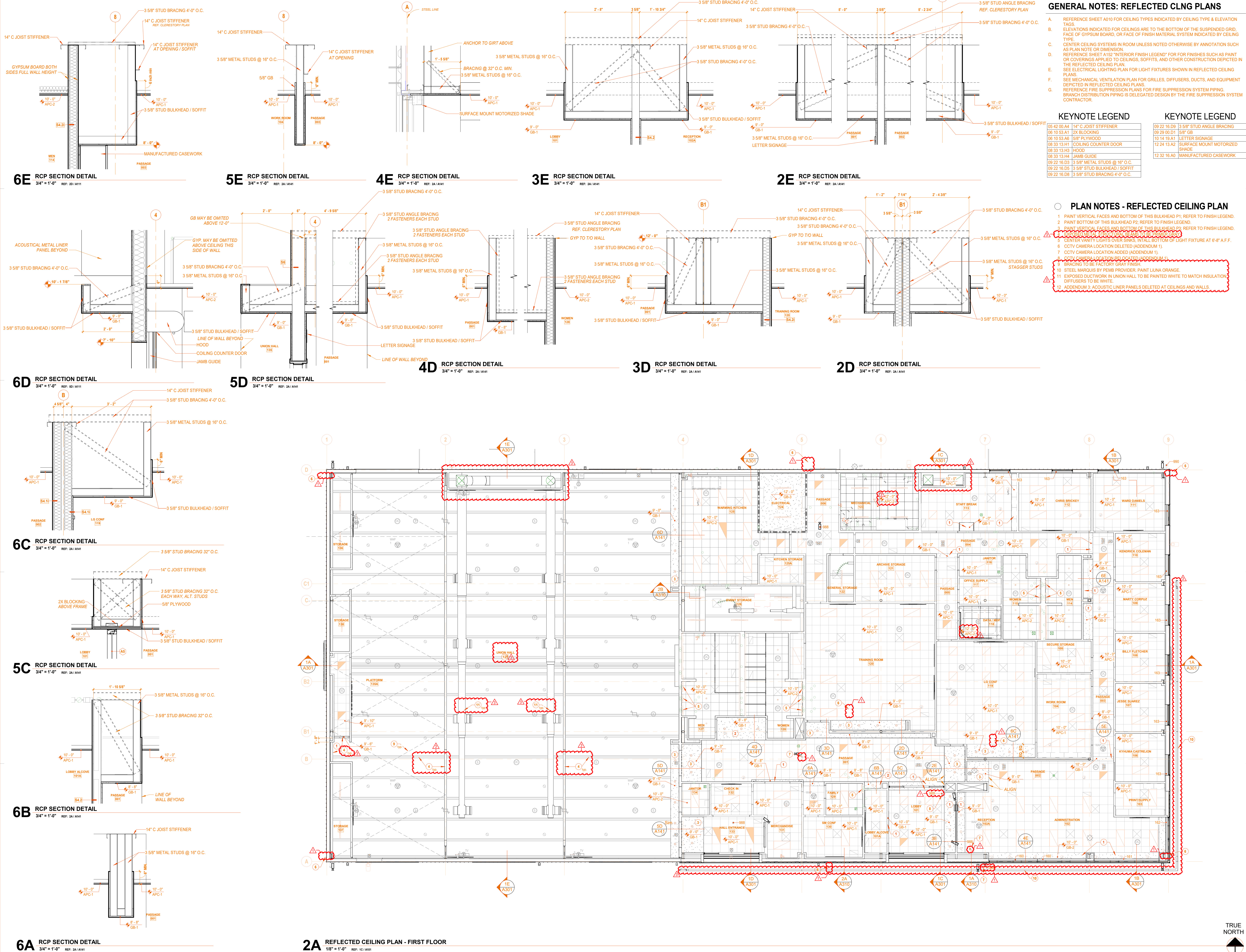
DRAWING TITLE:

## EQUIPMENT PLAN

DRAWING NUMBER:

A131







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LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.

INDIANAPOLIS, IN 46254

LiUNA!  
Feel the Power

PERMIT SET

REVISIONS:  
3 02.11.2022 Addendum 3: Post Bid VE

DATE:  
02.11.2022

arcDESIGN PROJECT NUMBER:  
21102

DRAWN BY:  
aD  
DRAWING TITLE:

CLERESTORY  
BRACING PLAN

DRAWING NUMBER:

A142



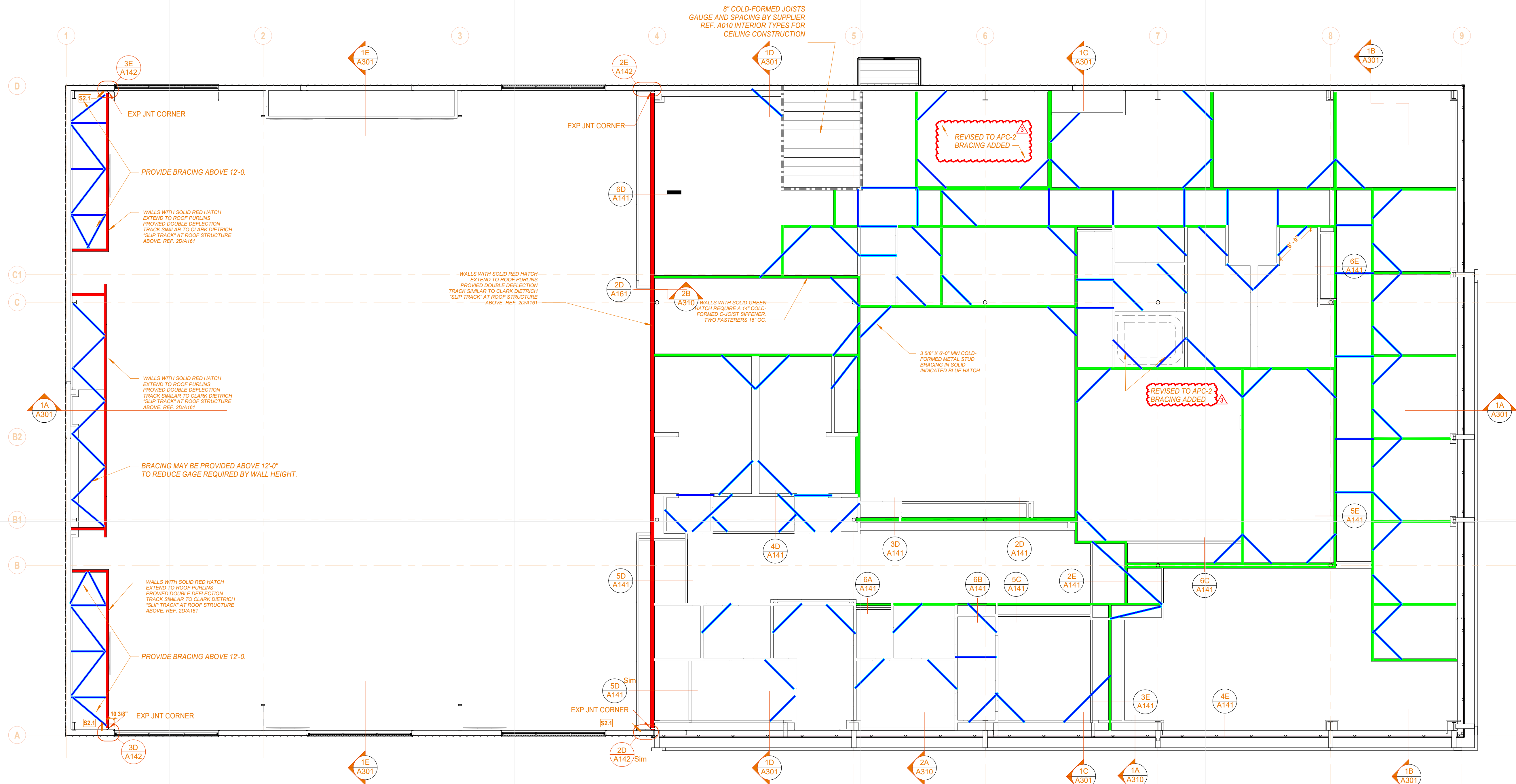
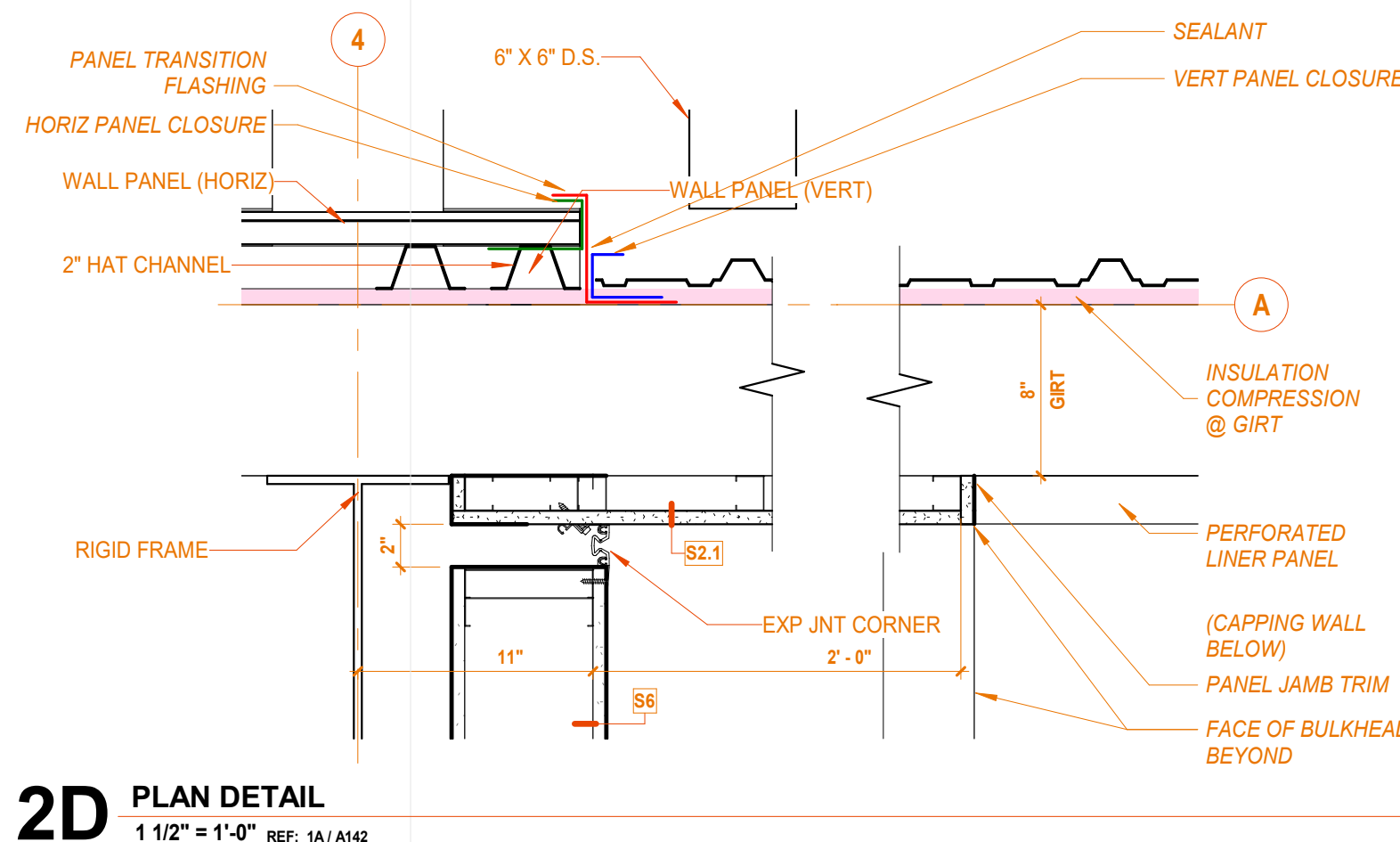
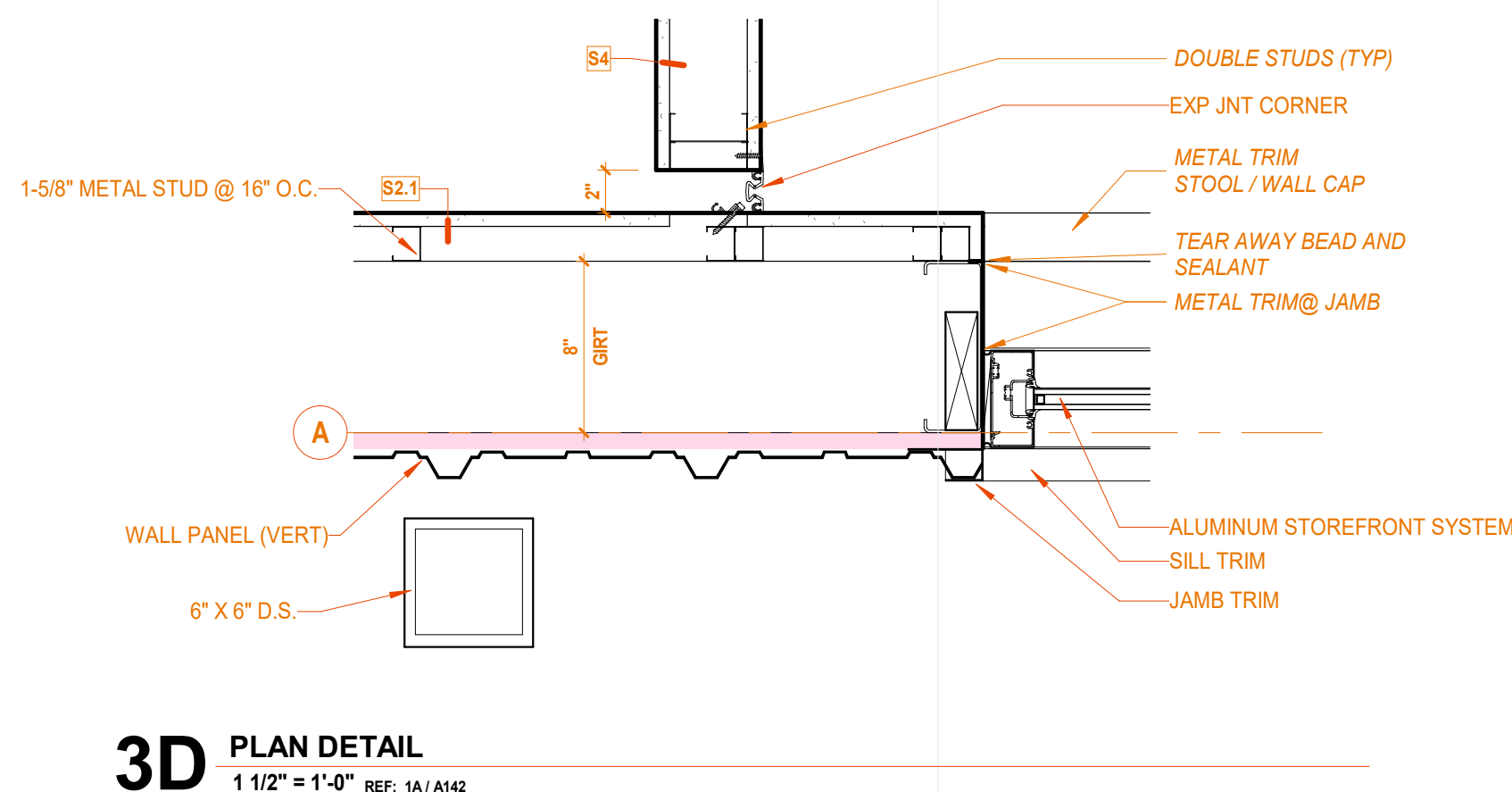
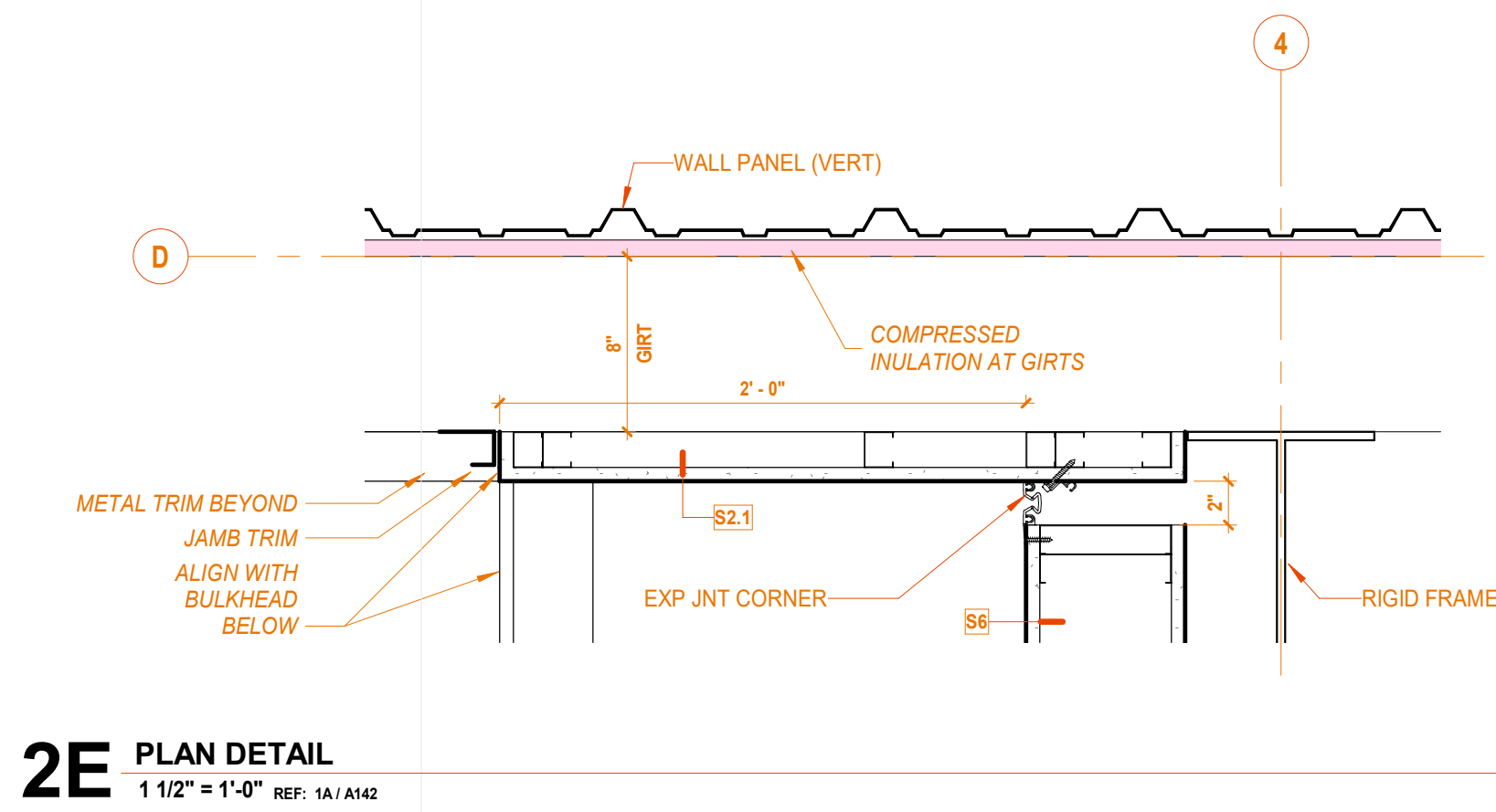
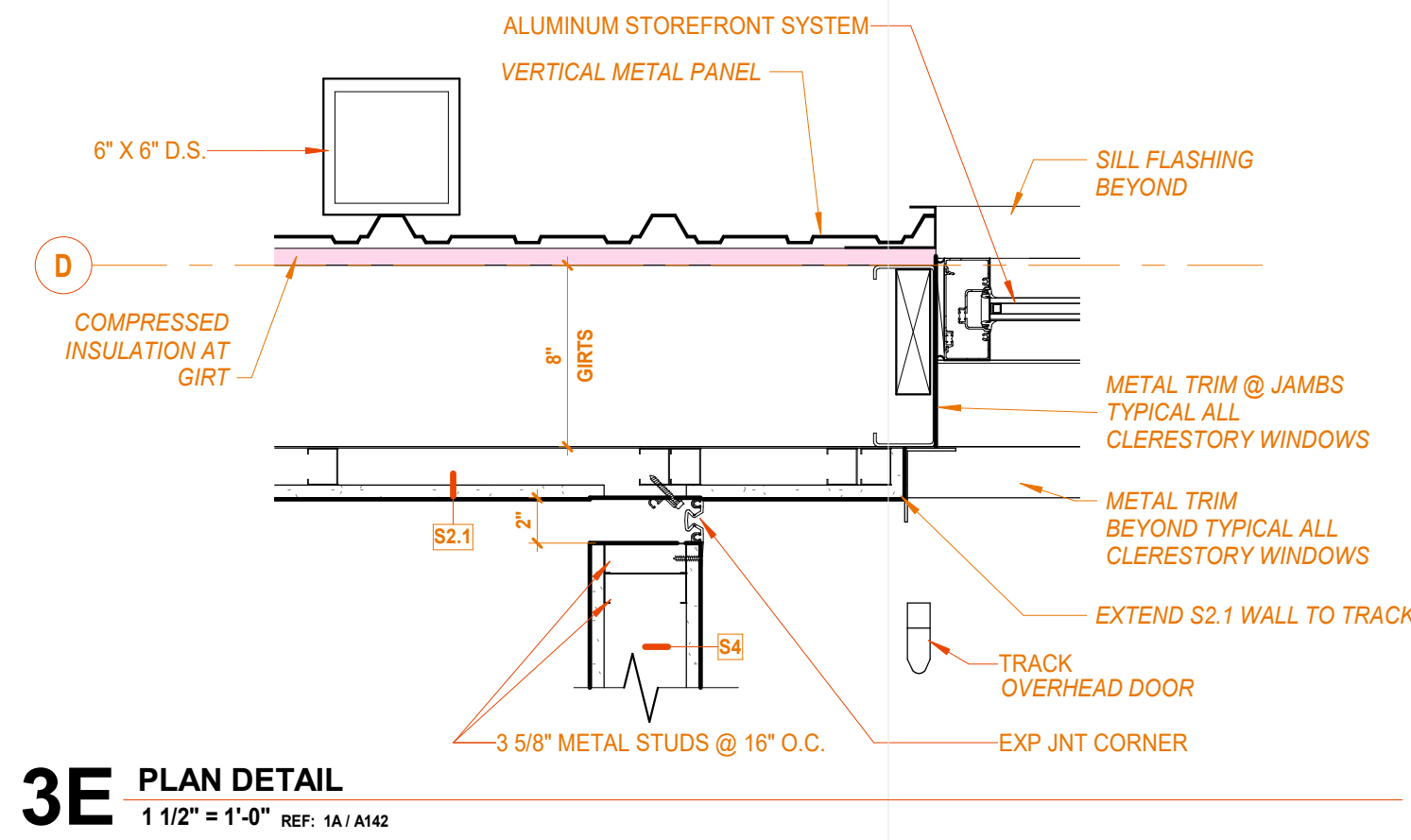
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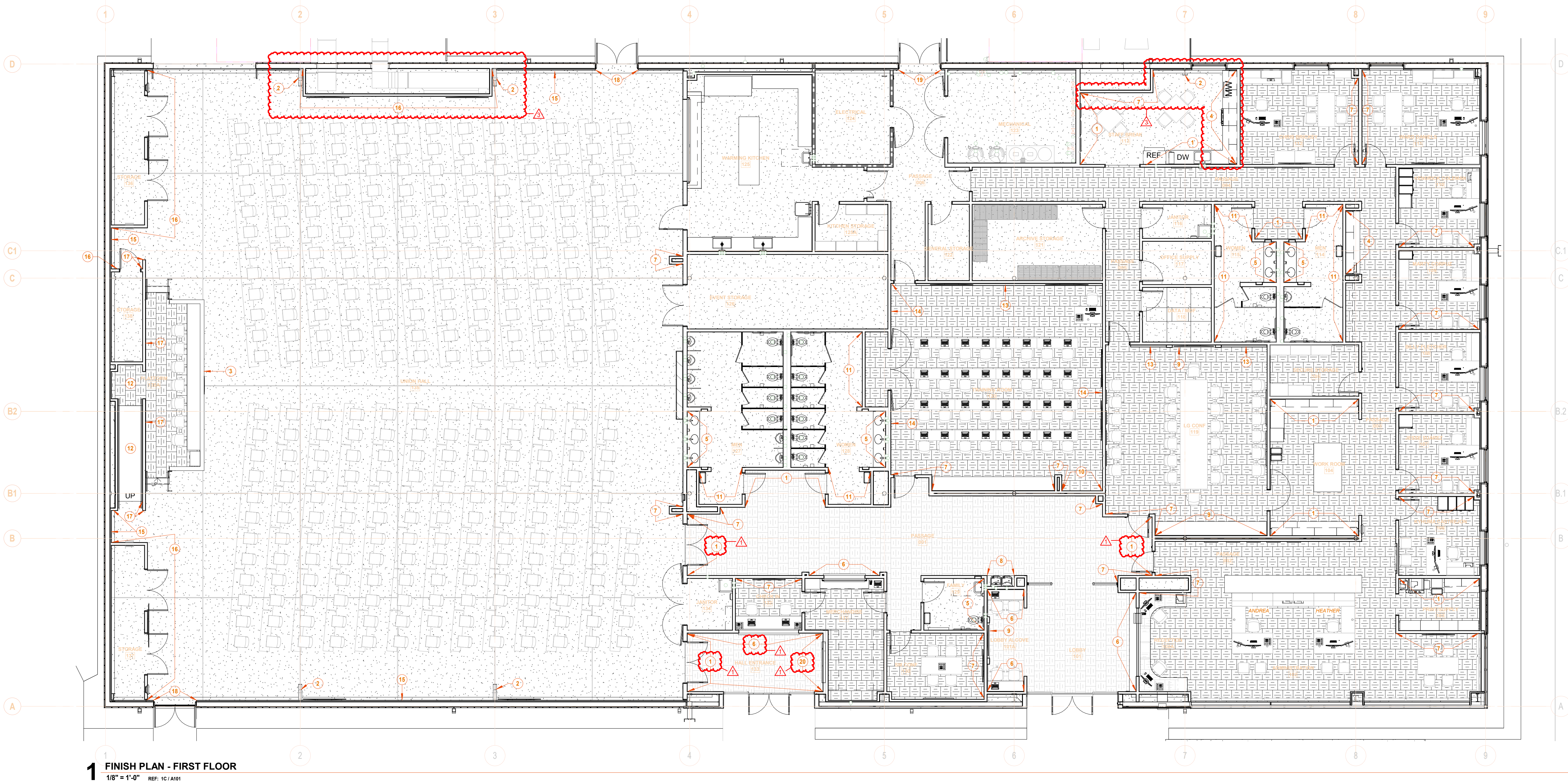
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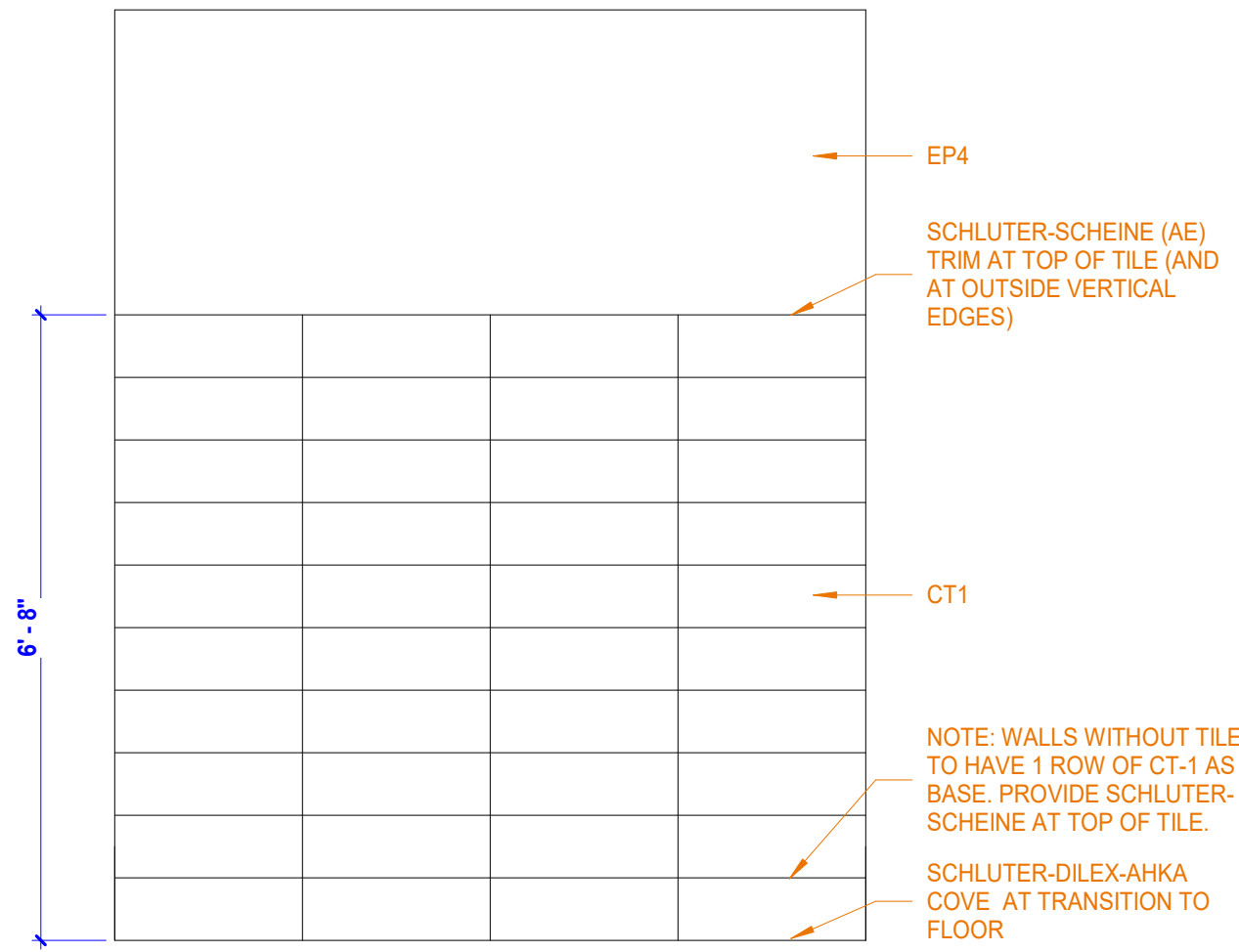
1A CLERESTORY  
1/8" = 1'-0" REF: 1C / A101



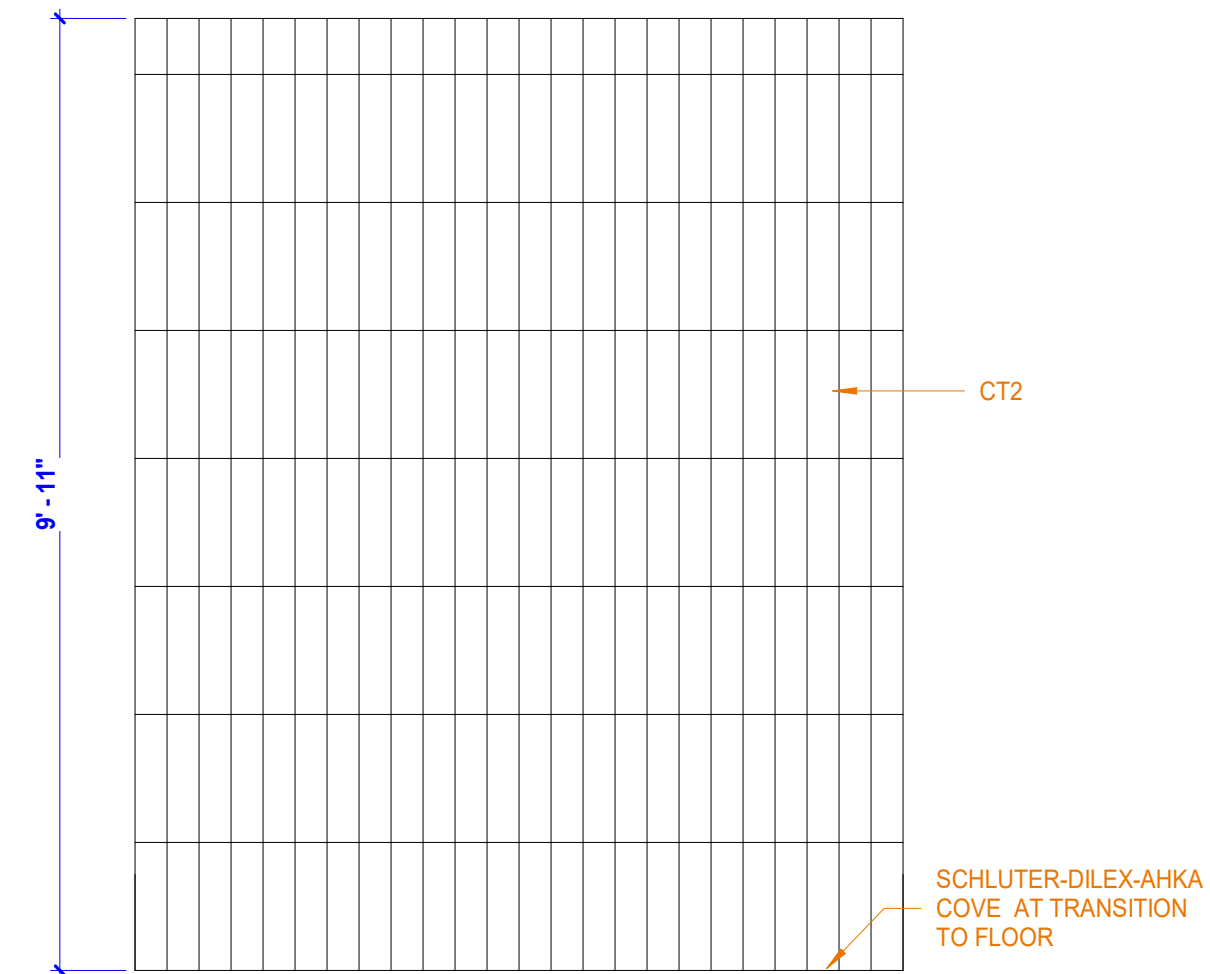
C:\Users\jmlie\Documents\Rent 2020 Local Files\01102 - LiUNA Local 120\_arcCENTRAL\_jmlie@arcdesign.us.rvt 2/11/2022 3:33:02 PM



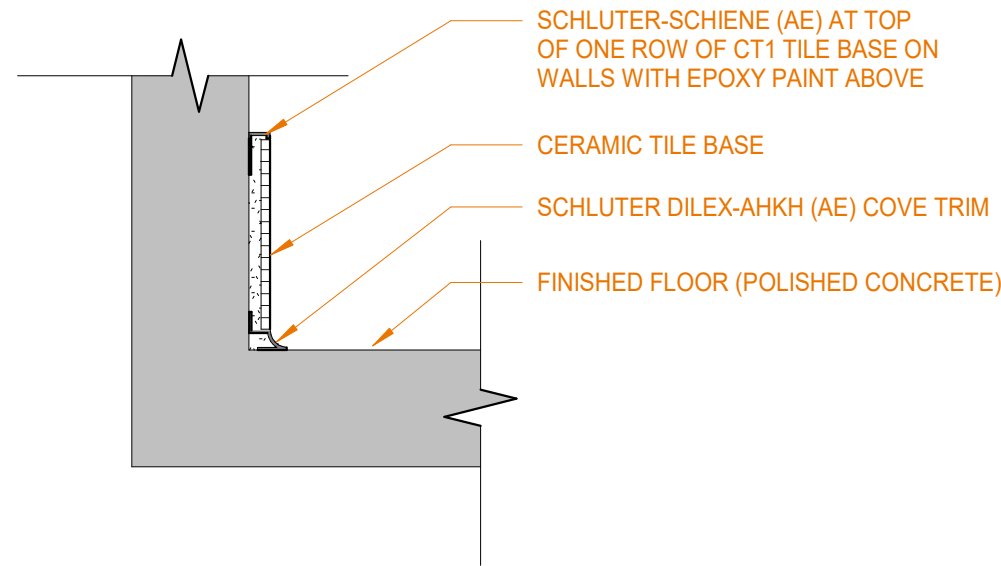
4A TYPICAL RESTROOM WALL TILE PATTERN  
1/2" = 1'-0"



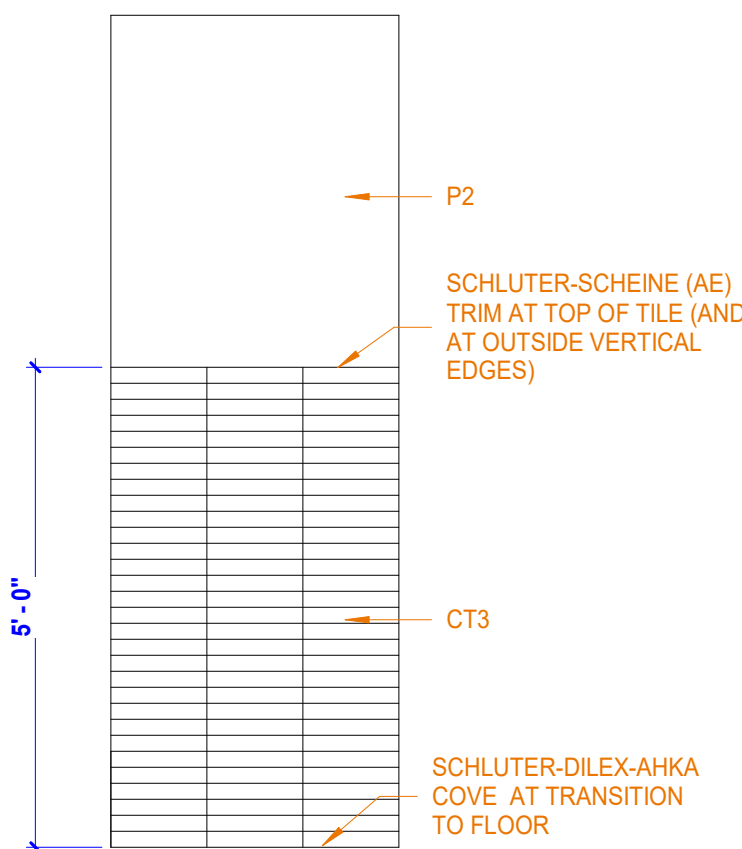
3A TYPICAL VANITY WALL TILE PATTERN  
1/2" = 1'-0"



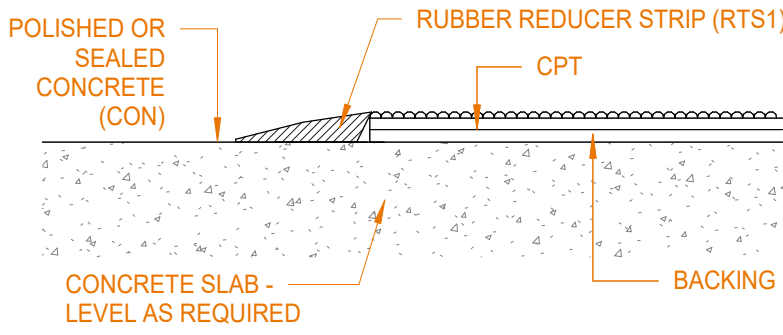
3B BASE DETAIL - CERAMIC TILE  
1 1/2" = 1'-0"



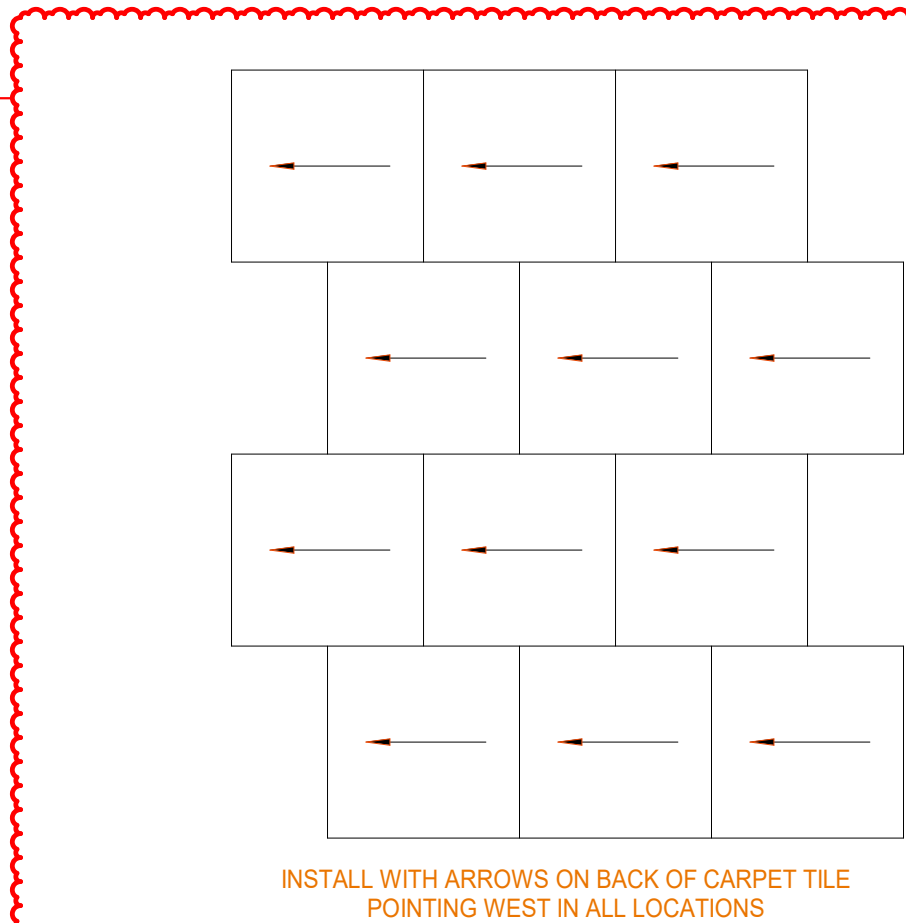
2A TYPICAL DRINKING FOUNTAIN ALCOVE TILE PATTERN  
1/2" = 1'-0"



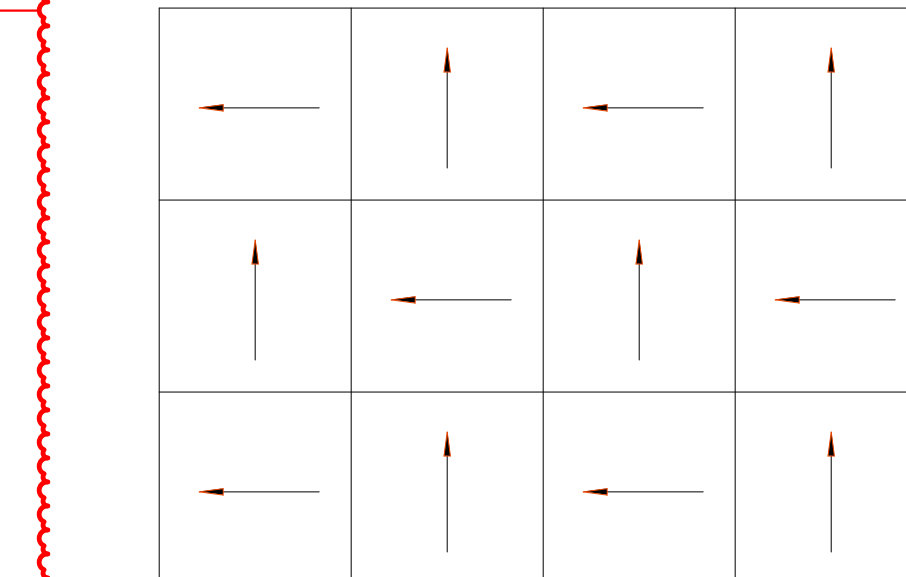
2B FLOOR TRANSITION - SEALED CONCRETE TO CARPET  
6" = 1'-0"



1A CPT2 PATTERN - ASHLAR  
1/2" = 1'-0"



1B CPT1 PATTERN - QUARTER-TURN  
1/2" = 1'-0"



CONTINUE PATTERN ALIGNMENT FROM CORRIDORS INTO OFFICES AND OTHER ADJACENT ROOMS RECEIVING THE SAME CARPET.

## GENERAL NOTES: INTERIOR FINISH PLANS

- REFERENCE SHEET A152 "INTERIOR FINISH LEGEND AND ROOM FINISH SCHEDULE" FOR FINISHES SUCH AS FLOORING, PAINT OR COVERINGS APPLIED TO WALL AND FLOOR CONSTRUCTION.
- ALL WALLS TO BE PAINTED P1 UNLESS NOTED OTHERWISE.
- REFERENCE SHEET A141 "REFLECTED CEILING PLAN" FOR CEILING FINISHES.
- ALL DOOR FRAMES TO BE PAINTED P2 UNLESS NOTED OTHERWISE.
- WOOD DOORS B.O.D. MASONITE, MAPLE, PLAIN SLICED, CLEAR FINISH.
- PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE RECEIVING THE NEW WORK. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.
- WHERE WALLS ARE INDICATED TO RECEIVE NEW PAINT FINISH, PAINT ALL PREVIOUSLY PAINTED OR PRIMED GRILLES, FIRE EXTINGUISHER CABINETS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR UNLESS NOTED OTHERWISE.
- PROVIDE TRANSITIONS AT ALL FLOORING MATERIAL CHANGES. REFER TO SHEET A151 FOR TYPICAL DETAILS.
- REFERENCE ENLARGED PLANS AND SECTIONS FOR MILLWORK FINISHES.
- ROLLER WINDOW SHADE FABRIC TO BE E SCREEN BY MERMET, WHITE/PEARL, 1% OPEN.
- ALL WINDOW STOOLS TO BE SS1.

## PLAN NOTES - INTERIOR FINISH PLAN

- PAINT WALL P2 FLOOR TO CEILING.
- PAINT ALL STRUCTURAL BEAMS TO BE PAINTED P2 UNLESS NOTED OTHERWISE.
- REFER TO ENLARGED PLANS AND DETAILS FOR TYPICAL WALL FINISHES.
- PAINT WALL P2, BETWEEN COUNTERTOP AND UPPER CABINETS. BULKHEAD ABOVE CABINETS TO BE P1.
- VANITY WALL TO RECEIVE CT2 FULL HEIGHT, REFER TO DETAIL 3A/A151 FOR TILE PATTERN.
- WALL TO RECEIVE WC1 FULL HEIGHT.
- PAINT WALL P3, FLOOR TO CEILING, IN THIS LOCATION.
- WALLS OF DRINKING FOUNTAIN ALCOVE TO RECEIVE CT3 UP TO 5'-0" A.F.F. - PAINT WALLS P2 ABOVE TILE. REFER TO DETAIL 2A/A151 FOR TILE PATTERN. PROVIDE SCHLUTER-SCHIE TRIM AT TOP AND OUTSIDE EDGES OF TILE.
- REFER TO INTERIOR ELEVATIONS FOR FINISHES LOCATIONS ON THIS WALL.
- WALL TO RECEIVE WC2, CUSTOM WALLCOVERING WITH LIUNA LOGOS AS PHOTO BACKDROP, FULL HEIGHT.
- PAINT WALL EP4, FLOOR TO CEILING. ALL OTHER WALLS TO HAVE CT1 WAINSCOT, UNLESS NOTED OTHERWISE. REFER TO DETAIL 4A/A151.
- PAINT ALL WALLS IN RAMP ENCLOSURE P4.
- PROVIDE PRESENTATION RAIL ON THIS WALL. REFER TO INTERIOR ELEVATIONS AND DETAIL 1A/A451.
- PROVIDE CHAIR RAIL ON THIS WALL. REFER TO DETAIL 2A/A451. ALIGN CHAIR RAIL WITH HEIGHT OF PRESENTATION RAIL.
- PAINT DRYWALL PORTION OF WALL P4.
- PAINT WALL P1, FULL HEIGHT.
- PROVIDE DRYWALL REVEAL (FRY REGLET DRM-625-375 CLEAR ANODIZED) ON THIS WALL AT 10'-0" A.F.F. (FIRST FLOOR). CONTINUE REVEAL AROUND ENDS OF WALL AND TERMINATE AT INSIDE CORNERS. PAINT WALL BELOW REVEAL P4 AND PAINT ABOVE REVEAL P1.
- PROVIDE CORNER GUARD CG1 AT THIS LOCATION. CUT WING IN FIELD TO FIT AT RETURN TO DOOR.
- PROVIDE CORNER GUARD CG2 AT THIS LOCATION. CUT WING IN FIELD TO FIT AT RETURN TO DOOR.
- STONE SIGN TO BE LOCATED ON THIS WALL. WALL TO RECEIVE BRICK BELOW THE SIGN. REFER TO DETAIL 1A/S10. PAINT WALL ABOVE BRICK P2.

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN 46254

**LiUNA!**  
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PERMIT SET

### REVISIONS:

- 01.07.2022 Addendum 1: Bid Set
- 02.11.2022 Addendum 3: Post Bid VE

DATE:  
02.11.2022

arcDESIGN PROJECT NUMBER:  
21102

DRAWN BY:  
aD

DRAWING TITLE:

INTERIOR FINISH  
PLAN

DRAWING NUMBER:

A151

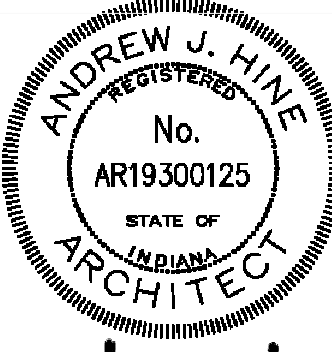


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architecture + interiors

201 N. Delaware Street, Suite B  
Indianapolis, IN 46204  
317.951.9192 T | 317.951.9194 F  
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**HANNIG**  
CONSTRUCTION INC



*Andrew J. Hile*

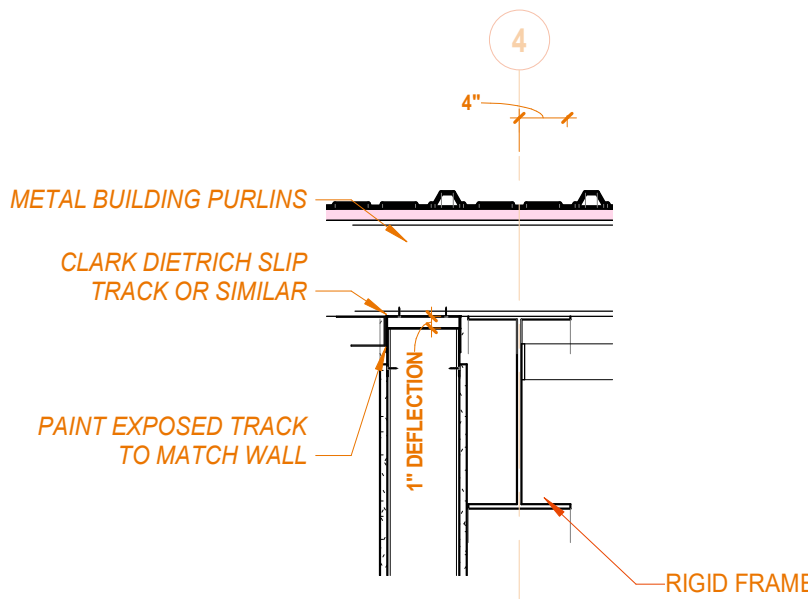


A. REFERENCE ROOM FINISH SCHEDULE FOR FINISHES INDICATED ON THIS SCHEDULE.  
B. REFERENCE REFLECTED CEILING PLANS FOR CEILING TYPES AND FINISHES APPLIED TO CEILINGS.  
C. REFERENCE INTERIOR FLOOR PLANS FOR FLOOR FINISH TRANSITIONS AND MATERIALS.  
D. WHERE MULTIPLE FINISHES ARE SCHEDULED, REFERENCE ENLARGED PLANS, ELEVATIONS, AND DETAIL VIEWS FOR FINISH PLACEMENT.  
E. EP = EPOXY PF TO BE USED ON WALLS AS INDICATED IN ROOM FINISH SCHEDULE AND/OR ON FINISH PLANS.



GENERAL NOTES: ROOF PLAN

- A. ROOFING CONSISTS OF DOUBLE LOCK GALVANIZED METAL ROOF PANELS OVER INSULATION WITH AIR BARRIER (R-19) AND STEEL SECONDARY FRAMING PROVIDED BY CECO BUILDINGS, THE PRE-ENGINEERED METAL BUILDING PROVIDER.
- B. THE PRE-ENGINEERED METAL BUILDING PROVIDER SHALL PROVIDE ALL MATERIALS REQUIRED TO SUPPORT MEP AND ARCHITECTURAL EQUIPMENT ASSOCIATED WITH THE ROOF INCLUDING BUT NOT LIMITED TO ROOF TRIMS AND FLASHINGS, CURBS, SECONDARY FRAMING, AND ACCESSORIES REQUIRED.
- C. PRIMARY AND SECONDARY FRAMING INDICATED ARE A REPRESENTATION OF ELEMENTS DESIGNED AND PROVIDED BY CECO BUILDINGS AND ARE INTENDED TO AID IN CONVEYING DESIGN INTENT. ALL METAL BUILDING SYSTEM COMPONENTS PROVIDED TO ACHIEVE DESIGN INTENT SHALL MEETING THE REQUIREMENTS OF THE INDIANA BUILDING CODE AND SHALL PREVENT WATER FROM ENTERING THE BUILDING.
- D. THE PRE-ENGINEERED METAL BUILDING PROVIDER SHALL PROVIDE ALL ALL ROOFING COMPONENTS INDICATED FOR A WATER-TIGHT ROOF SYSTEM FROM THE PEAK OF THE ROOF TO THE CONNECTION OF THE DOWNSPOUTS TO THE STORMWATER UNDERDRAINS.
- E. ADDENDUM 3 - VE: ALL ROOF-MOUNTED EQUIPMENT WAS REMOVED BY ADDENDUM 3. REFERENCE C-SERIES AND H-SERIES PLANS FOR MECHANICAL YARDS AND EQUIPMENT ON GRADE. REFERENCE H-SERIES AND A-SERIES DRAWINGS FOR EXTERIOR LOUVERS IN WALLS SERVING VENTS, FANS, AND OTHER EQUIPMENT REMOVED FROM THE ROOF.



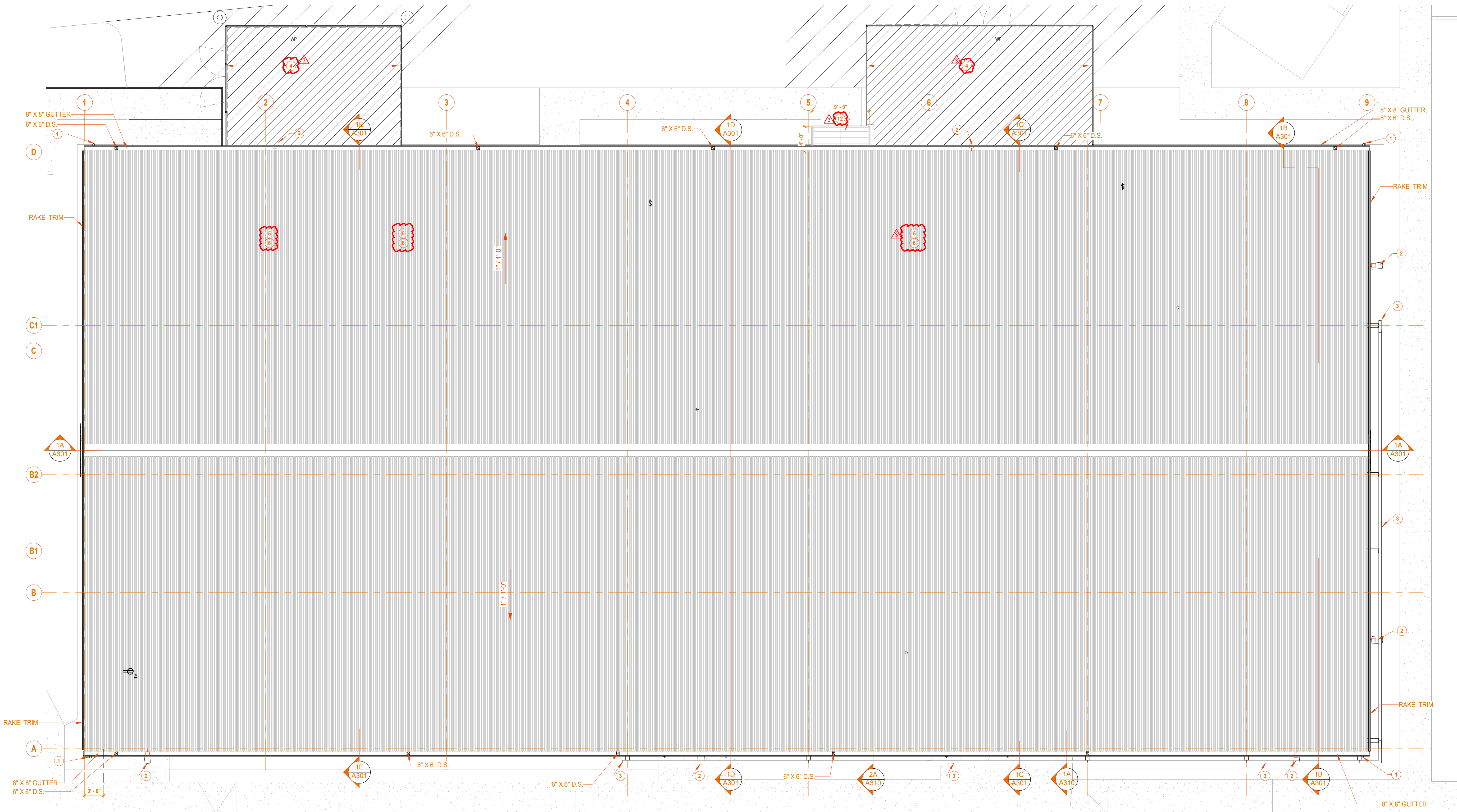
**2D SECTION DETAIL**  
3/4" = 1'-0" REF: 1A/1A12

PLAN NOTES - ROOF PLAN

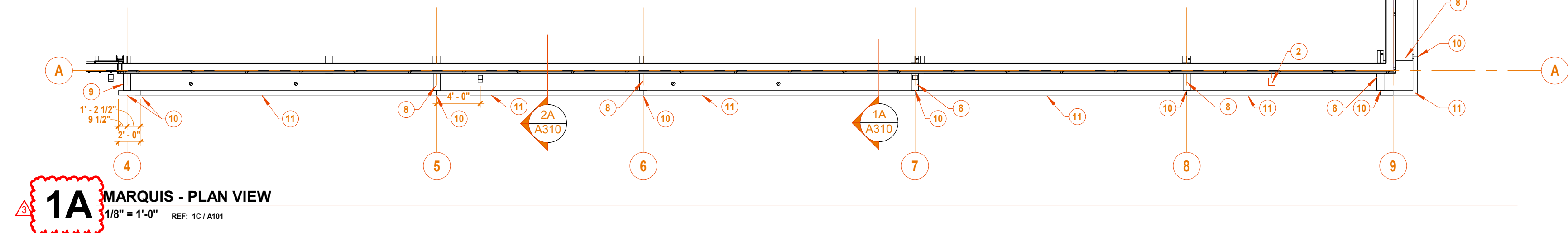
- 1 WALL-MOUNTED SECURITY CAMERA BEYOND. FINAL LOCATIONS TO BE VERIFIED BY OWNER'S SECURITY CONTRACTOR.
- 2 WALL-MOUNTED EXTERIOR LIGHTING BEYOND. REF. E-SERIES FOR MORE INFORMATION.
- 3 MODIFIED BY ADDENDUM 3: MARQUIS BEYOND.
- 4 ADDED BY ADDENDUM 3: MECHANICAL YARD / EQUIPMENT BELOW. REFERENCE H-SERIES
- 5 DELETED BY ADDENDUM 3: FAN ON CURB. REF. H-SERIES FOR ADDITIONAL INFORMATION.
- 6 DELETED BY ADDENDUM 3: MECHANICAL ROOF TOP UNIT ON CURB. REF. H-SERIES FOR ADDITIONAL INFORMATION.
- 7 WALL-MOUNTED SIGNAGE. COORDINATE SUPPLEMENTAL FRAMING SUPPORT REQUIRED BY SIGNAGE WITH SIGN SUPPLIER.
- 8 ADDENDUM 3: PEMB-FABRICATED CANTILEVERED FRAME. THROUGH-WALL FLASHING BY PEMB. PAINT LIUNA ORANGE.
- 9 MODIFIED BY ADDENDUM 3: PEMB-FABRICATED CANTILEVERED FRAMES (LOW AND HIGH) WITH THROUGH-WALL FLASHING AND SEALANT. PAINT LIUNA ORANGE.
- 10 ADDENDUM 3: BOLTED CONNECTION.
- 11 MODIFIED BY ADDENDUM 3: PEMB-FABRICATED "C" SHAPE BOLTED TO CANTILEVERED FRAME. PAINT LIUNA ORANGE.
- 12 MODIFIED BY ADDENDUM 3: GABLE CANOPY 12'-12" 1/4" MIN. BASIS OF DESIGN. FLS CANOPY GABLE DOOR CANOPY. PROVIDED BY PEMB (CECO). MATCH COLOR OF WAL PANEL.

KEYNOTE LEGEND

13 34 19 A2	RIGID FRAME
13 34 19 C9	RAKE TRIM
13 34 19 D3	8" X 6" GUTTER
13 34 19 D7	6" X 6" D.S.



**2B ROOF PLAN**  
1/8" = 1'-0" REF: 1C/1A01

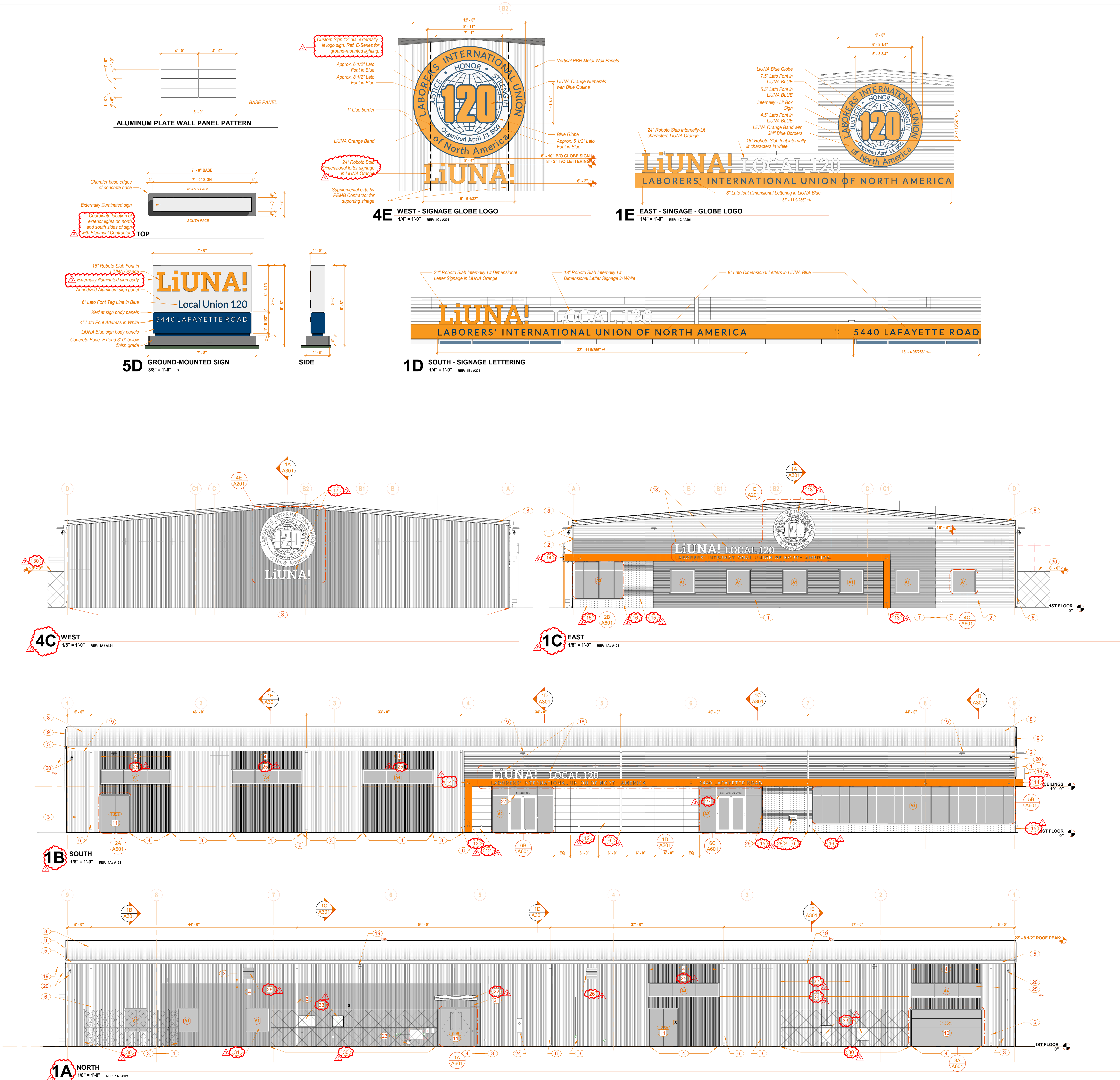


**1A MARQUIS - PLAN VIEW**  
1/8" = 1'-0" REF: 1C/1A01





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GENERAL NOTES: EXTERIOR ELEVATIONS

- A. REFERENCE FIRST FLOOR PLAN FOR EXTERIOR BUILDING ELEVATION CALLOUTS.  
B. SEE SHEETS A601 FOR ALUMINUM FRAMED PUNCHED OPENINGS, ENTRANCES, AND STOREFRONTS.  
C. SEE SHEET A601 FOR HOLLOW METAL DOORS AND FRAMES, SHEET A601 FOR DOOR SCHEDULE.  
D. SIGNAGE PROVIDER TO CONFIRM ALL SIGNAGE COMPLIES WITH CITY OF INDIANAPOLIS REQUIREMENTS FOR C-4 ZONING AS PART OF SUBMITTAL APPROVAL PROCESS.  
E. GC COORDINATED SCOPE REDUCTIONS: NOTE THE FOLLOWING ELEVATION NOTES HAVE CHANGED TO REDUCE SCOPE AFTER JANUARY 18, 2022:  
a. CHANGED NOTES: 12, 13, 14, 15, 16, 17, 18, 22, 25  
b. ADDED NOTES: 26, 27, 28, 29, 30, 31, 32.

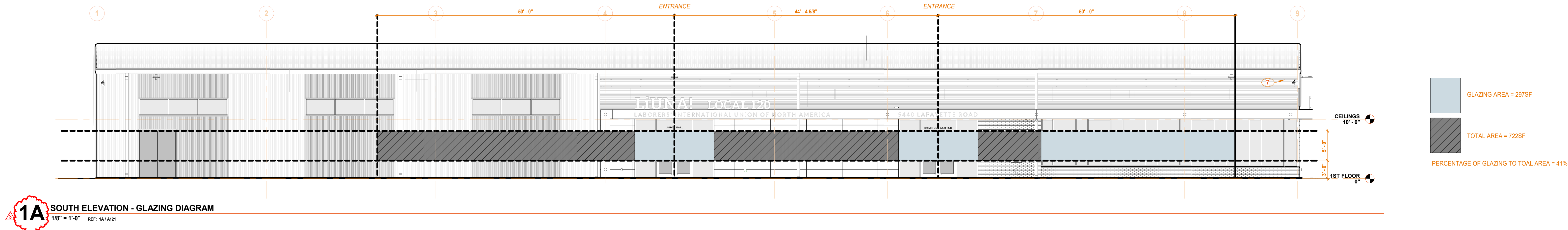
EXTERIOR ELEVATION NOTES

- 1 13149 - HORIZONTAL 7.2 METAL PANELS (BLACK)  
2 13149 - HORIZONTAL 7.2 METAL PANELS (CHARCOAL GRAY)  
3 13149 - VERTICAL PBR METAL PANEL SYSTEM (CHARCOAL GRAY)  
4 13149 - VERTICAL PBR METAL PANELS (BLACK)  
5 13149 - 8"x8" GUTTER CHARCOAL GRAY  
6 13149 - 6"x6" RECTANGULAR DOWNSPOUT CONNECTED TO STORM DRAIN, CHARCOAL GRAY.  
7 13149 - 6"x6" RECTANGULAR DOWNSPOUT WITH OPEN DISCHARGE TO CANOPY ROOF. TWO COLORS: CHARCOAL, GRAY & BLACK MATCHING SIDING.  
8 13149 - DOUBLE LOCK GALVANIZED METAL ROOF SYSTEM  
9 13149 - RAKE TRIM (CHARCOAL GRAY)  
10 13149 - OVERHEAD SECTIONAL DOOR (CUSTOM COLOR "BLACK")  
11 13149 - HOLLOW METAL DOOR AND FRAME (CUSTOM COLOR "BLACK")  
12 ADDENDUM 3: COMPOSITE PANEL OVER VERTICAL METAL PANELS, B.O.D.: NICHIBA AWP 1818 CORBOSA "SHADOW".  
13 ADDENDUM 3: CUSTOM STEEL MARQUIS BY METAL BUILDING PROVIDER (CUSTOM COLOR LIUNA! ORANGE).  
14 ADDENDUM 3: FABRICATED STEEL MARQUIS (CUSTOM COLOR LIUNA! ORANGE).  
15 ADDENDUM 3: COMPOSITE WALL PANEL OVER METAL BUILDING PANELS, B.O.D.: NICHIBA MODERN BRICK "MIDNIGHT" AWP.  
16 ADDENDUM 3: COMPOSITE PANEL EXPANSION JOINT.  
17 ADDENDUM 3: CUSTOM EXTERNALLY-LIT SIGN.  
18 CUSTOM INTERNALLY-LIT SIGN / DIMENSIONAL LETTER SIGNAGE, COORD. POWER SUPPLY INDICATED ON E-SERIES DRAWINGS.  
19 WALL - MOUNTED LIGHT FIXTURE - LENS AT 17'-0" AFF, REF. E-SERIES FOR MORE INFORMATION.  
20 WALL - MOUNTED SECURITY CAMERA, CONFIRM MOUNTING HEIGHT SHOWN (16'-0" AFF) WITH OWNER'S SECURITY CONTRACTOR PRIOR TO PLACING CONDUITS AND JUNCTION BOXES.  
21 WALL - MOUNTED SECURITY CAMERA, CONFIRM MOUNTING HEIGHT SHOWN (9'-0" AFF) WITH OWNER'S SECURITY CONTRACTOR PRIOR TO PLACING CONDUITS AND JUNCTION BOXES.  
22 ADDENDUM 3: GABLE DOOR CANOPY BY PEMB PROVIDER, BASIS OF DESIGN: FLS GABLE DOOR CANOPY, FINISH TO MATCH SIDING.  
23 LOW-PRESSURE NATURAL GAS SERVICE - REF. P-SERIES FOR MORE INFORMATION.  
24 METER BASE - REF. E-SERIES FOR MORE INFORMATION.  
25 ADDENDUM 3: KAWNEER VRSOLEIL SUNSHADES (QTY 6 TOTAL DELETED ADDENDUM 3).  
26 ADDENDUM 3: METAL LOUVER, CUSTOM FINISH TO MATCH METAL WALL PANEL, REF. H-SERIES FOR MORE INFORMATION.  
27 ADDENDUM 3: REVERSE CUT VINYL LETTERING ON INSIDE SURFACE, 3 1/2" HEIGHT, LATO FONT, WHITE.  
28 DEPOSITORY - SEE EQUIPMENT PLAN  
29 KNOX BOX  
30 ADDENDUM 3: BLACK VINYL CHAINLINK FENCE WITH BLACK VINYL INSERTS AT MECHANICAL YARDS & DUMPSTER ENCLOSURE, REF. C-SERIES, METAL BUILDING PROVIDER REVIEW H-SERIES DRAWINGS FOR OPENING REQUIREMENTS OF DUCTS, PIPING, REFRIGERANT LINES, AND LOUVERS.  
31 ADDENDUM 3: WINDOW RELOCATED BY ADDENDUM 3.  
32 ADDENDUM 3: CLERESTORY WINDOW DELETED BY ADDENDUM 3  
33 ADDENDUM 3: DUCT PENETRATION - REF. H-SERIES





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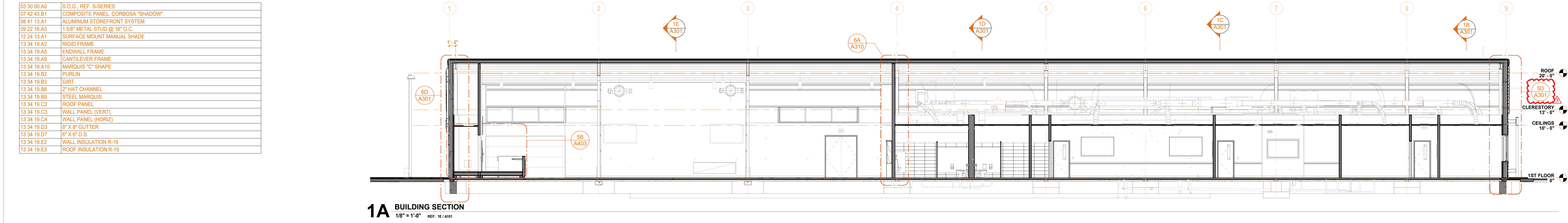
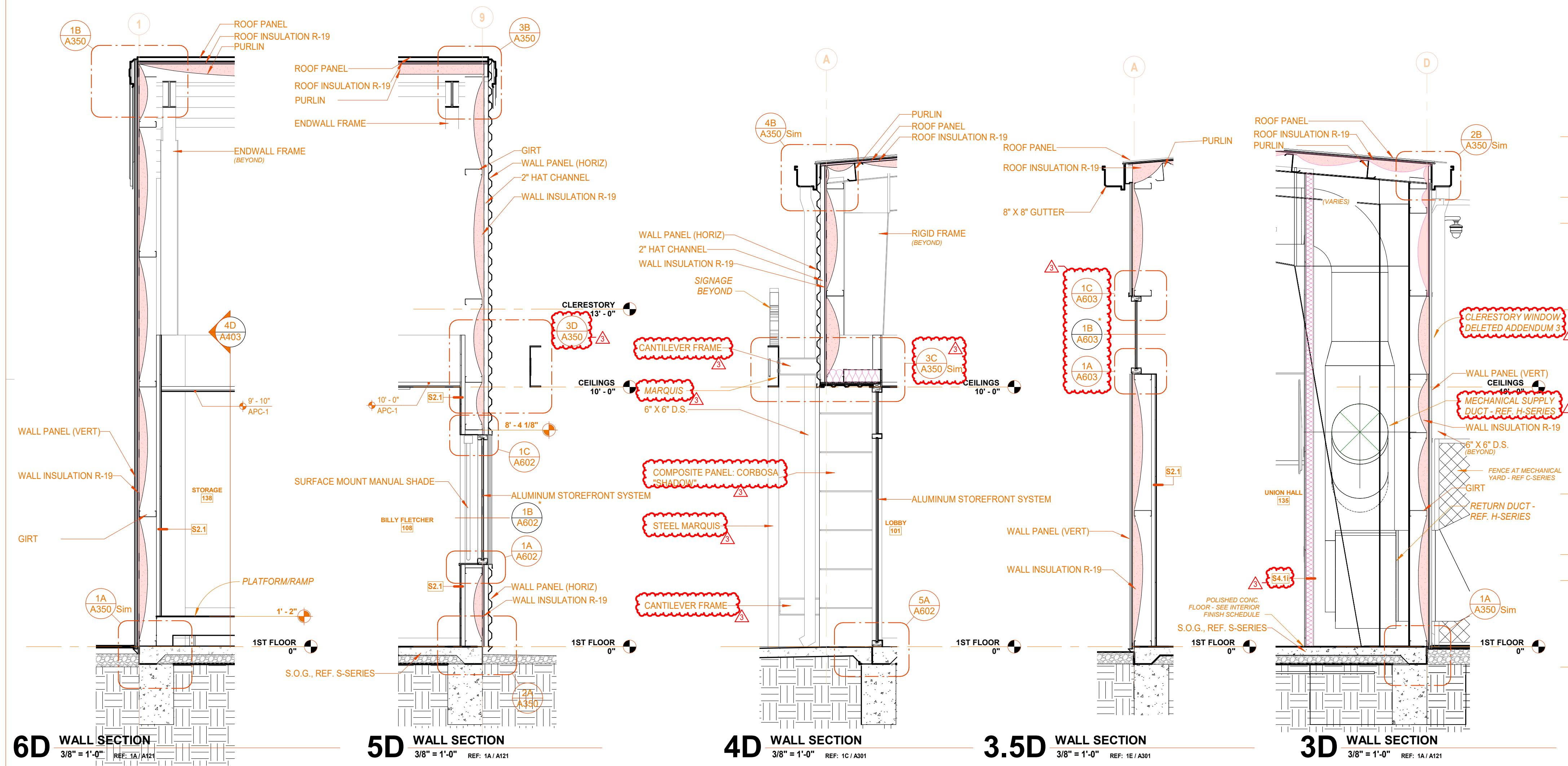
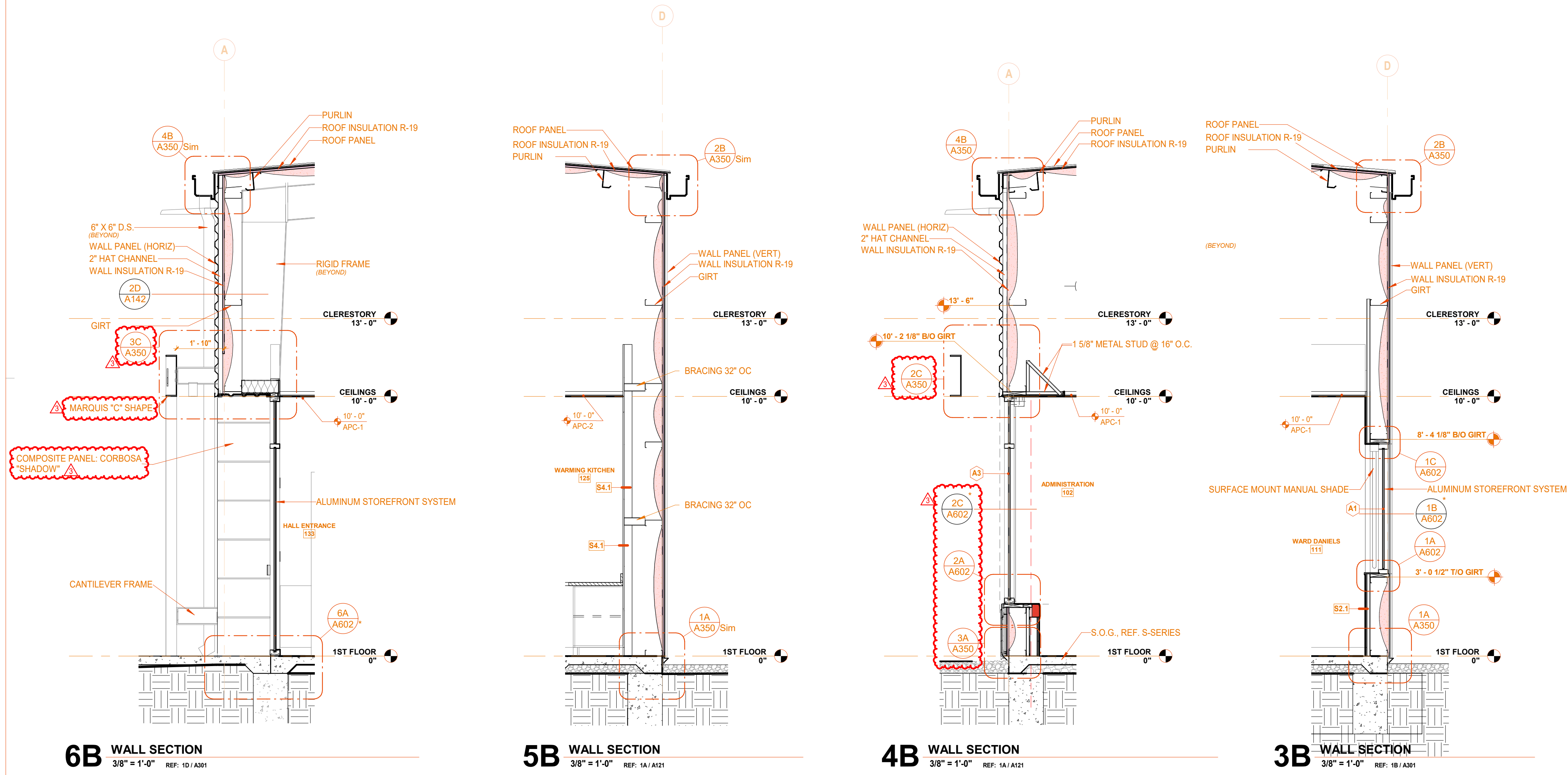


4. Other Standards<sup>#15</sup>
- a. **Windows/doors/transparency**<sup>#16</sup>
1. On the side of each primary building that has a public pedestrian entrance, at least 40% of the wall surface area between 3 feet and 8 feet above grade level and within 50 feet of each side of the entrance shall be of glass or other transparent materials. On any facade or side of a primary building that is located within 50 feet of a local, collector or arterial street, at least 40% of the wall surface area between 3 feet and 8 feet above grade level shall be of glass or other transparent materials.
  2. Required ground floor glass or other transparent materials shall allow two-way visibility between 3 feet and 8 feet above grade level.



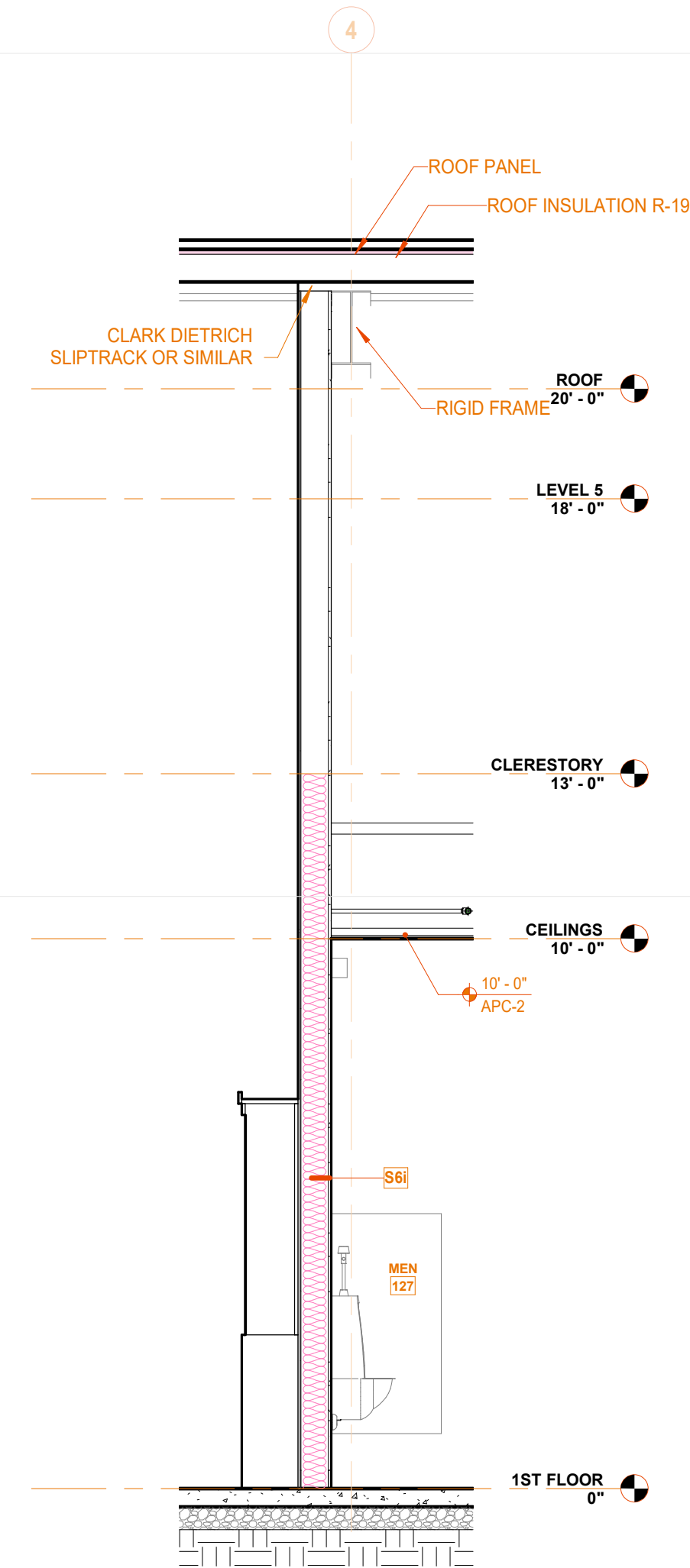
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07 42 43 B1	COMPOSITE PANEL CORBOSA "SHADOW"
08 41 13 A1	ALUMINUM STOREFRONT SYSTEM
09 22 16 A3	1 5/8" METAL STUD @ 16" O.C.
12 24 13 A1	SURFACE MOUNT MANUAL SHADE
13 34 19 A2	RIGID FRAME
13 34 19 A5	ENDWALL FRAME
13 34 19 A9	CANTILEVER FRAME
13 34 19 A10	MARQUIS "C" SHAPE
13 34 19 B2	PURLIN
13 34 19 B3	GIRT
13 34 19 B8	2" HAT CHANNEL
13 34 19 B9	STEEL MARQUIS
13 34 19 C2	ROOF PANEL
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C4	WALL PANEL (HORIZ)
13 34 19 D3	8" X 8" GUTTER
13 34 19 D7	6" X 6" D.S.
13 34 19 E2	WALL INSULATION R-19
13 34 19 E3	ROOF INSULATION R-19

KEYNOTE LEGEND

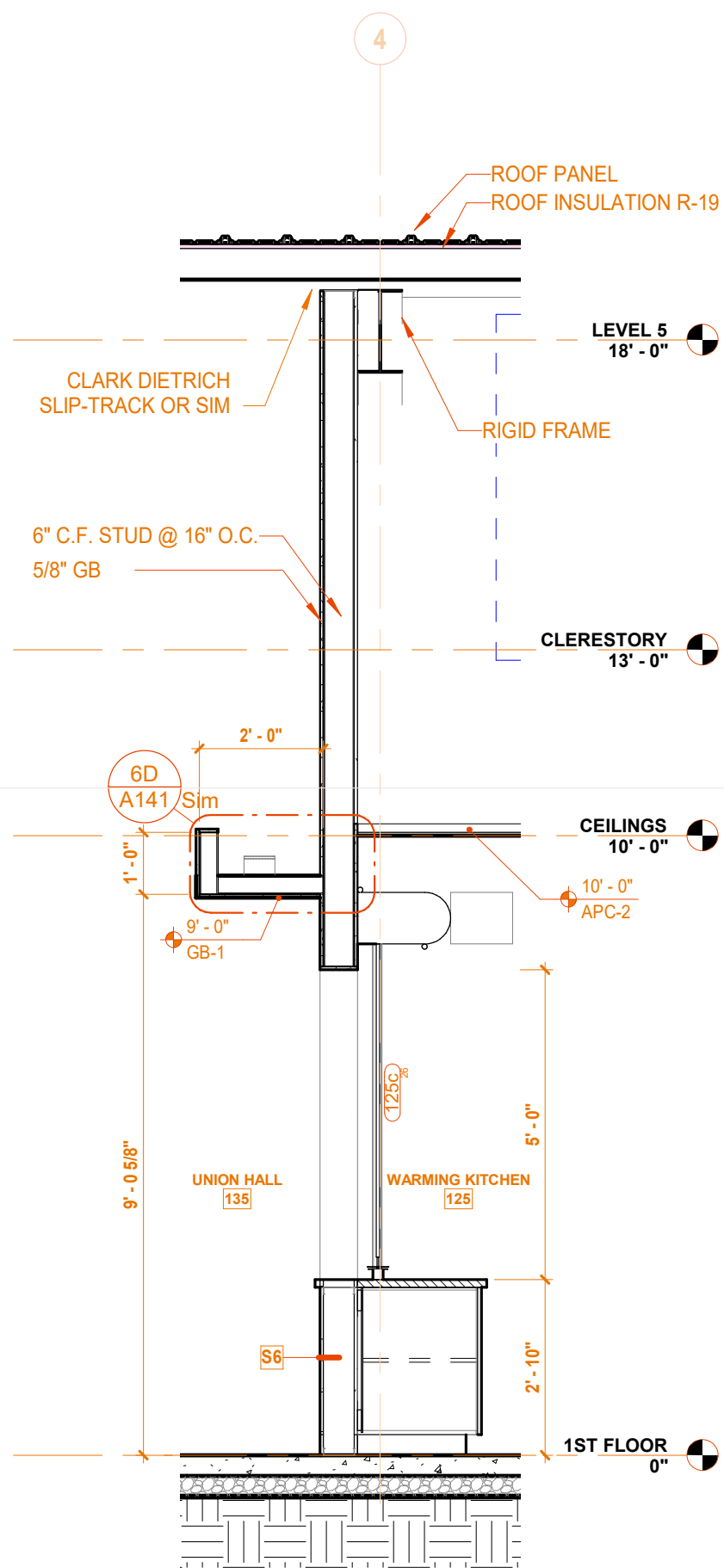




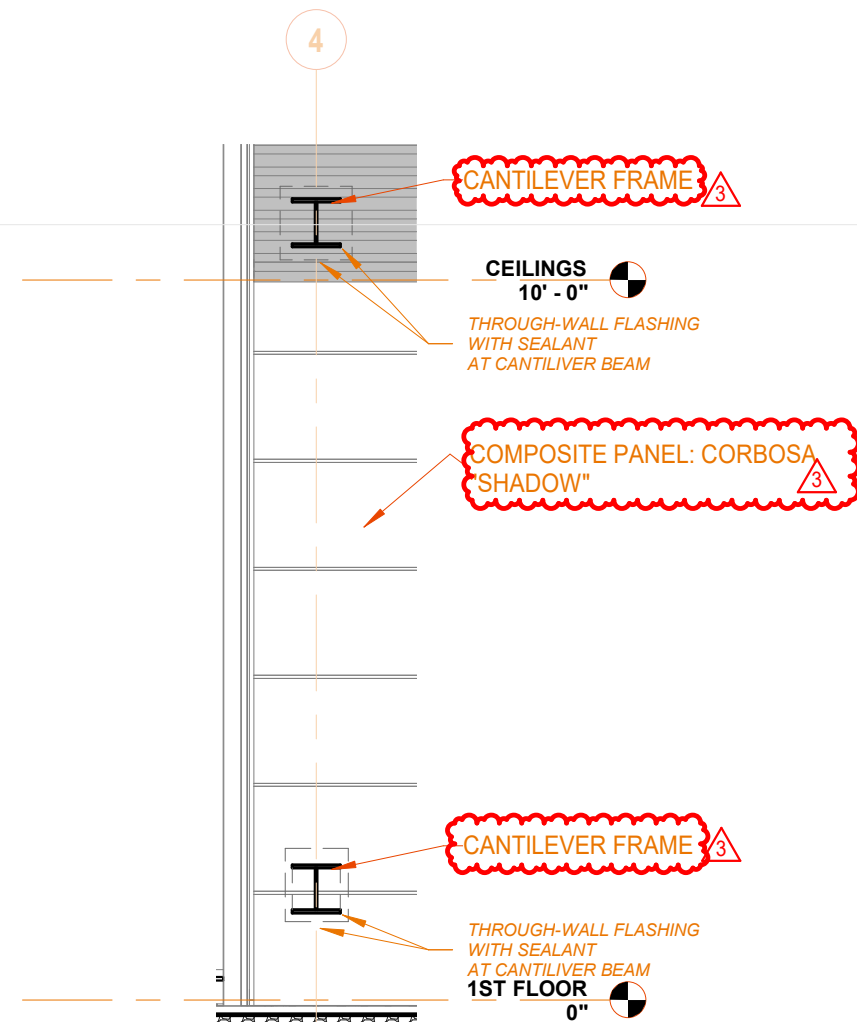
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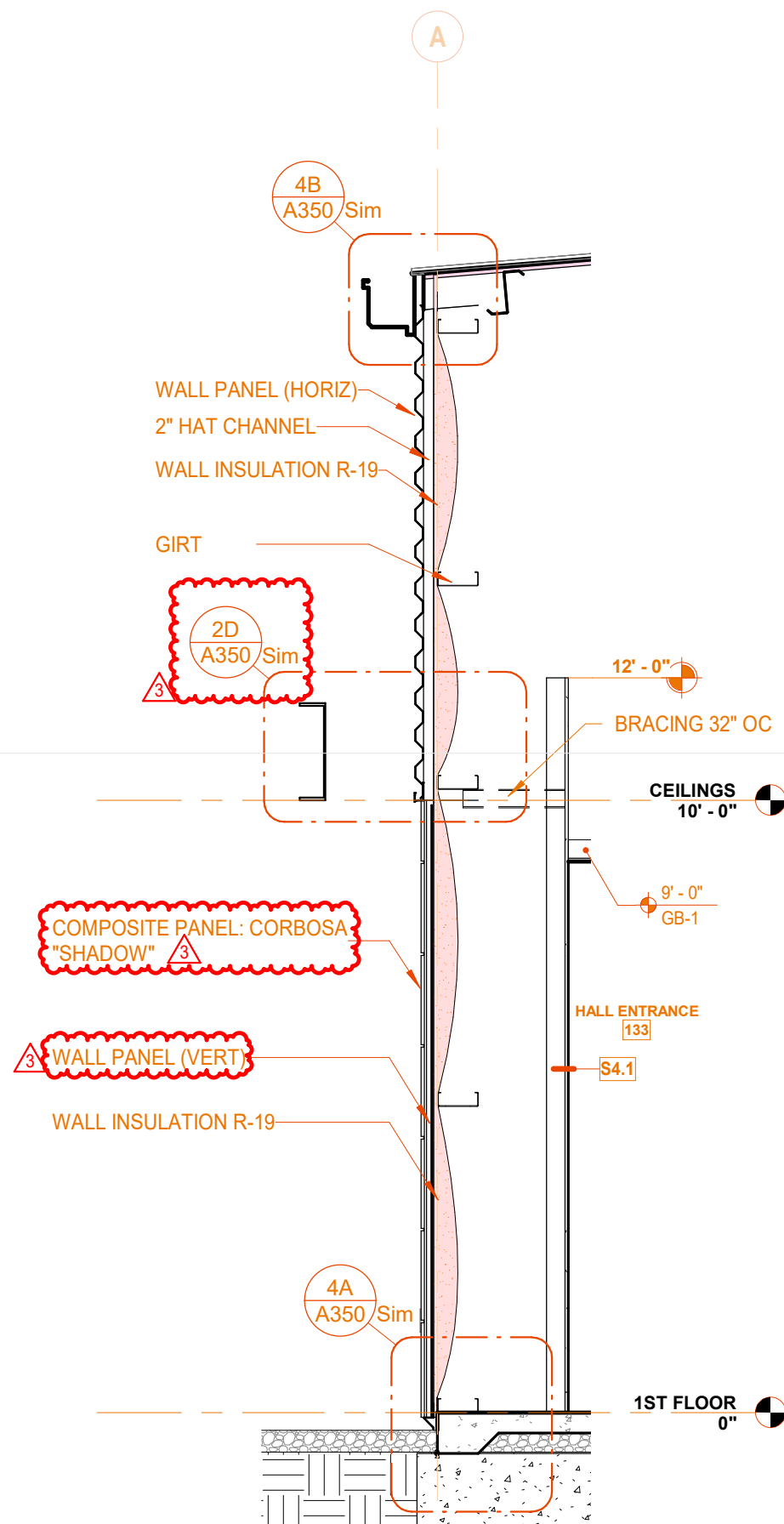
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3/8" = 1'-0" REF: 1A/A31



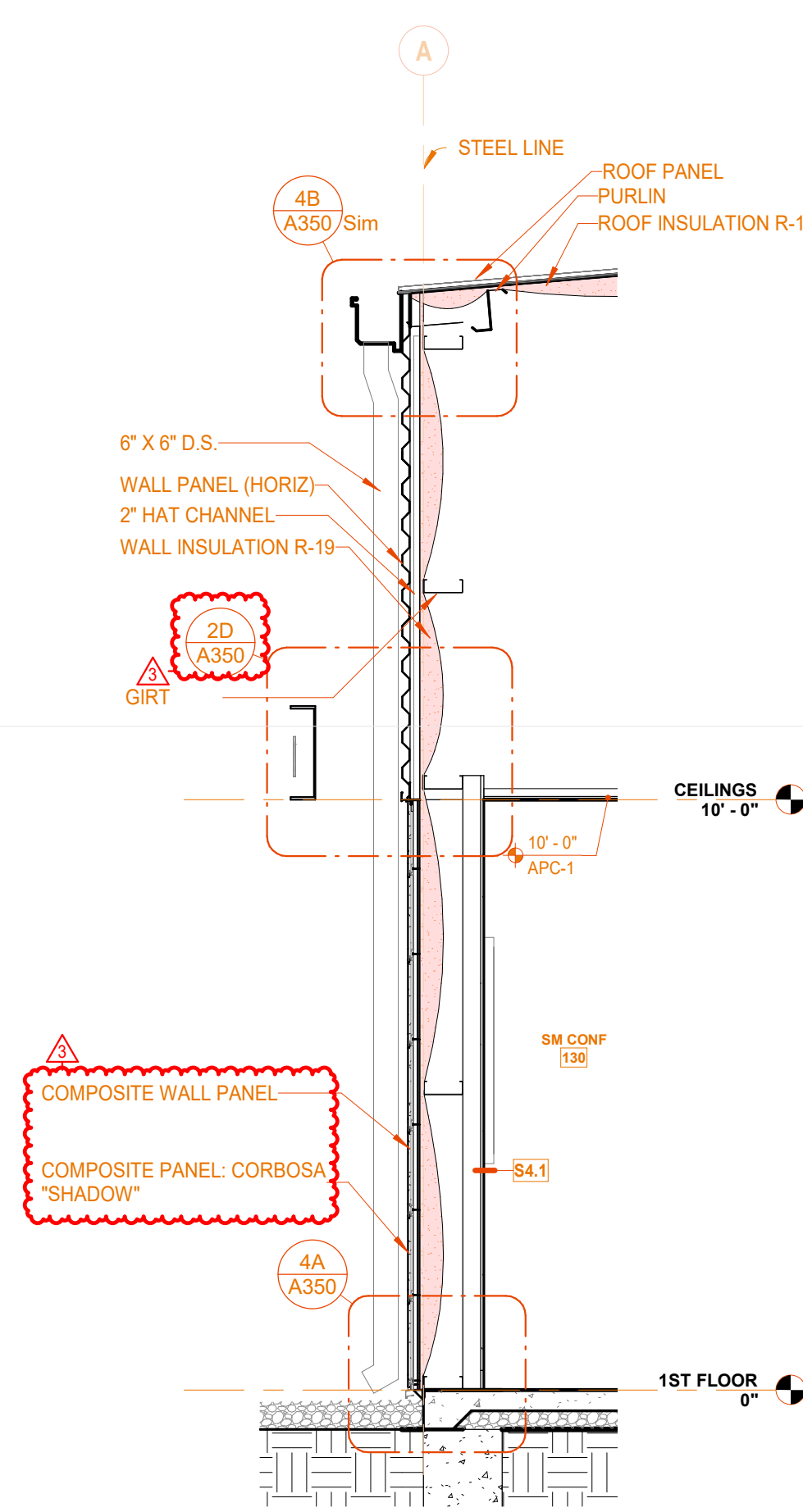
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3/8" = 1'-0" REF: 1A/A11



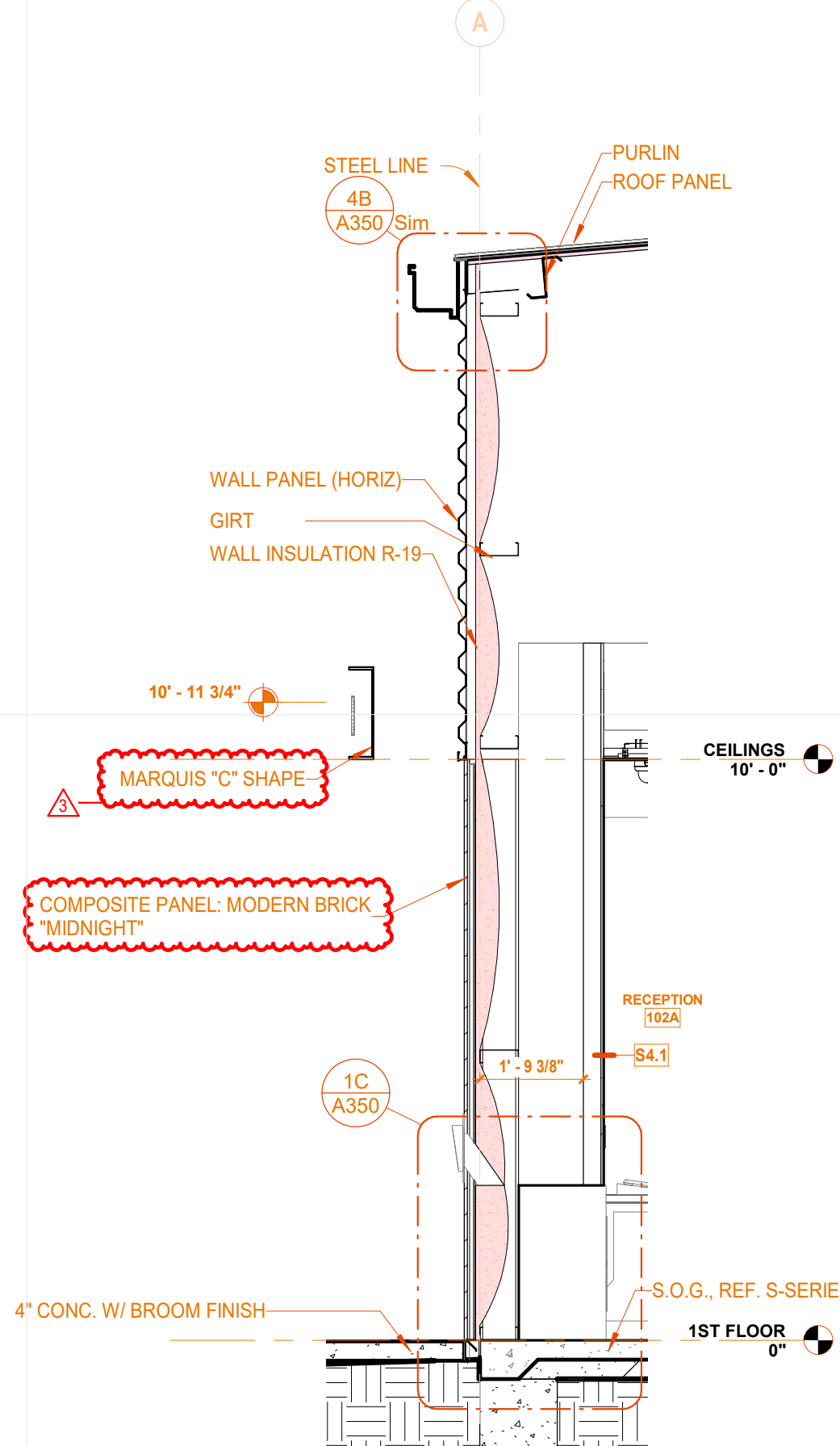
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3/8" = 1'-0" REF: 6B/A310



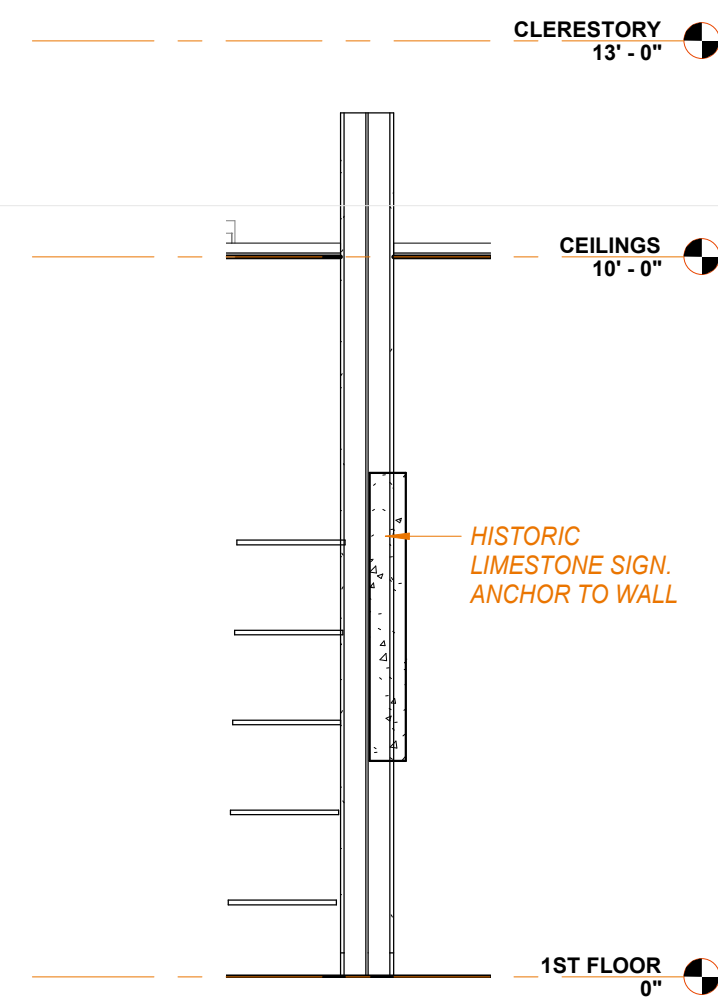
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3/8" = 1'-0" REF: 1A/A31



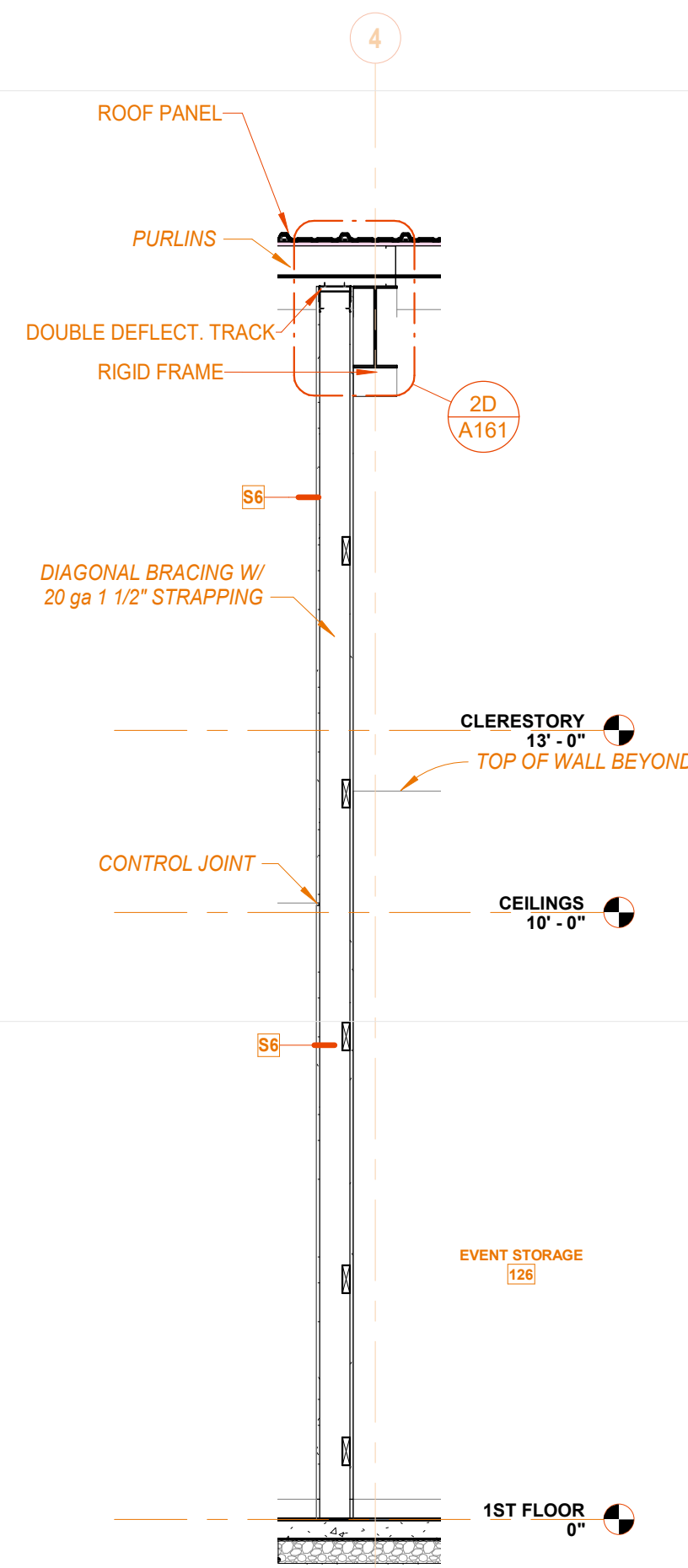
2A WALL SECTION  
3/8" = 1'-0" REF: 1/A111



1A WALL SECTION  
3/8" = 1'-0" REF: 1/A111



2C LIMESTONE SIGN WALL  
3/8" = 1'-0" REF: 4B/A312



2B WALL SECTION  
3/8" = 1'-0" REF: 3E/A311

## KEYNOTE LEGEND

03 30 00 A0	S.O.G. REF: S-SERIES
05 40 00 S8	6\" C.F. STUD @ 16\" O.C
07 42 43 A0	COMPOSITE WALL PANEL
07 42 43 B1	COMPOSITE PANEL: CORBOSA \"SHADOW\"
07 42 43 B2	COMPOSITE PANEL: MODERN BRICK \"MIDNIGHT\"
09 22 16 01	DOUBLE DEFLECT. TRACK
09 29 00 D1	5/8\" GB
13 34 19 A2	RIGID FRAME
13 34 19 A9	CANTILEVER FRAME
13 34 19 A10	MARGUIS \"C\" SHAPE
13 34 19 B2	PURLIN
13 34 19 B3	GIRT
13 34 19 B8	2\" HAT CHANNEL
13 34 19 C2	ROOF PANEL
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C4	WALL PANEL (HORIZ)
13 34 19 D7	6\" X 6\" D.S
13 34 19 E2	WALL INSULATION R-19
13 34 19 E3	ROOF INSULATION R-19
32 13 00 B3	4\" CONC. W/ BROOM FINISH



Signature of Andre W. J. Hine

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

5430 LAFAYETTE RD.

INDIANAPOLIS, IN 46254

LiUNA!  
Feel the Power

PERMIT SET

REVISIONS:  
3 02.11.2022 Addendum 3: Post Bid VE

DATE:  
02.11.2022

arcDESIGN PROJECT NUMBER:  
21102

DRAWN BY:  
aD

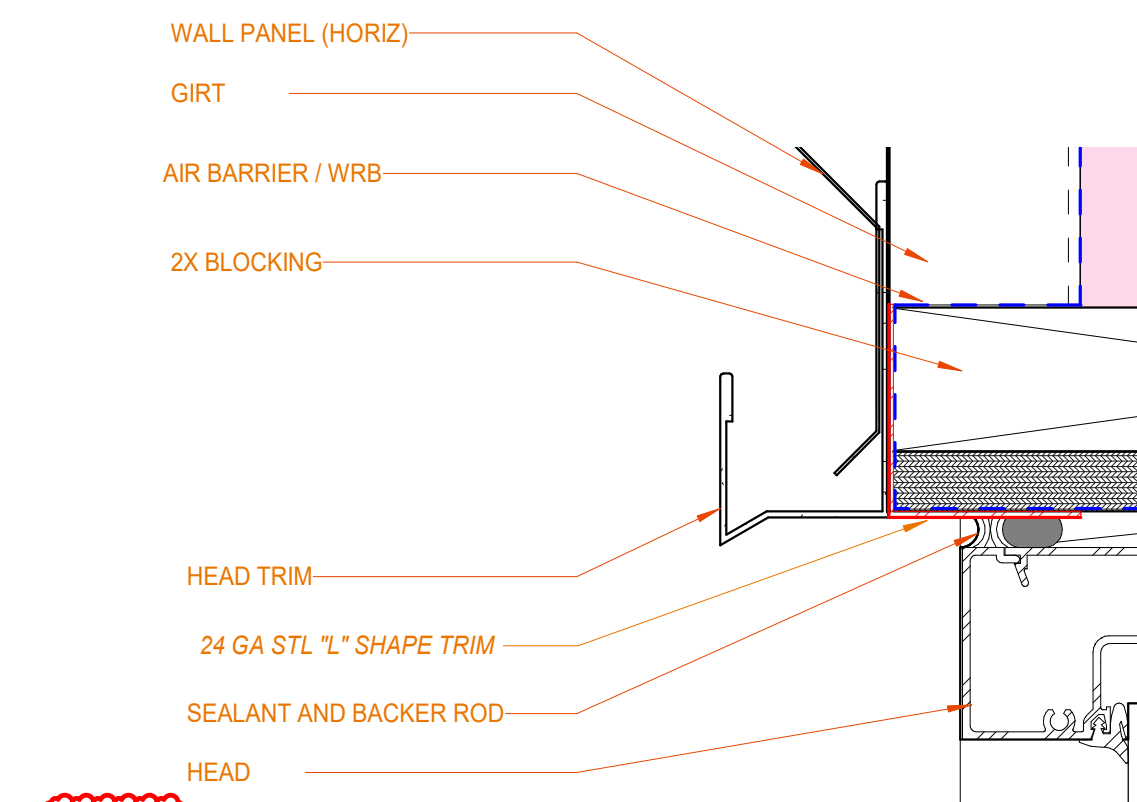
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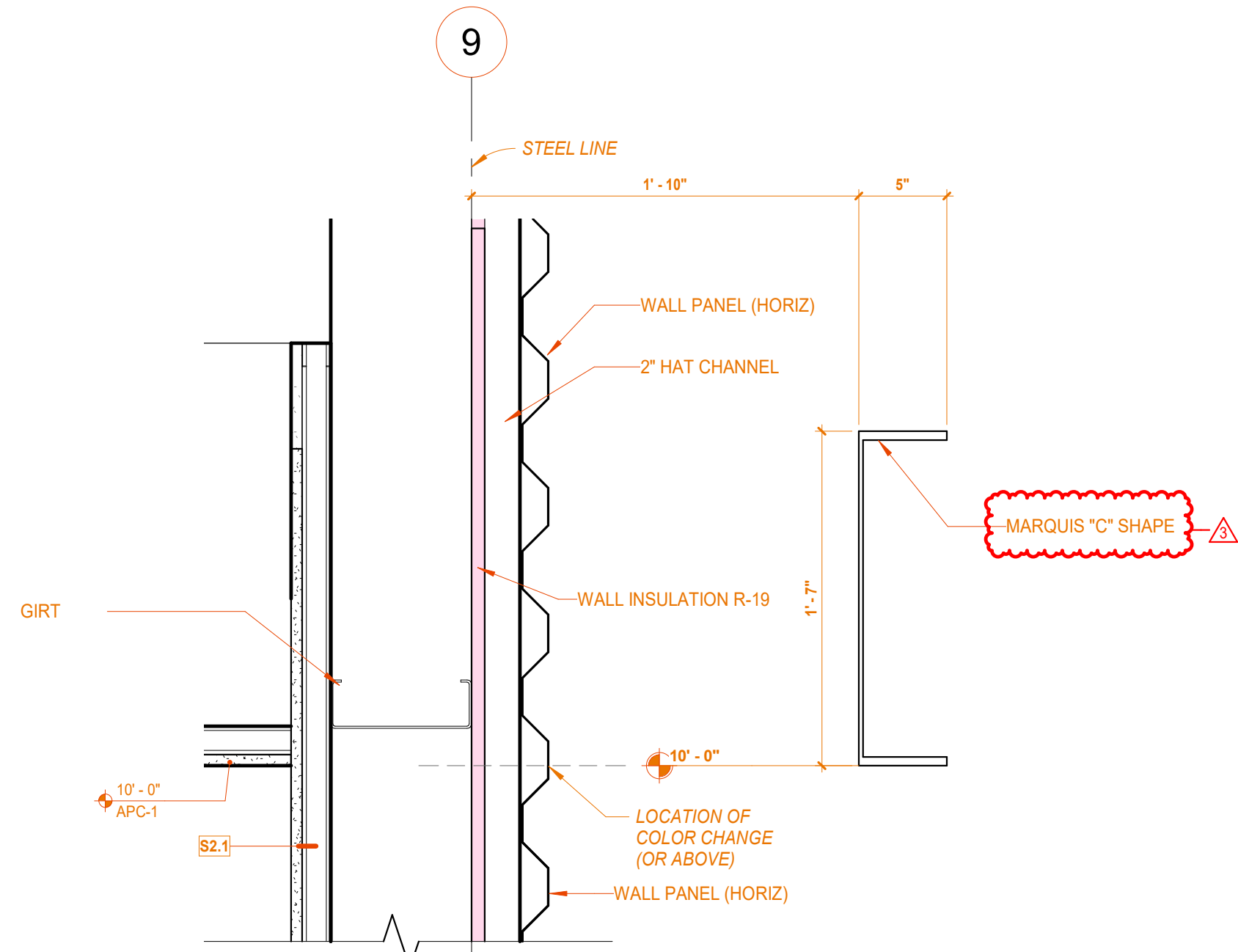
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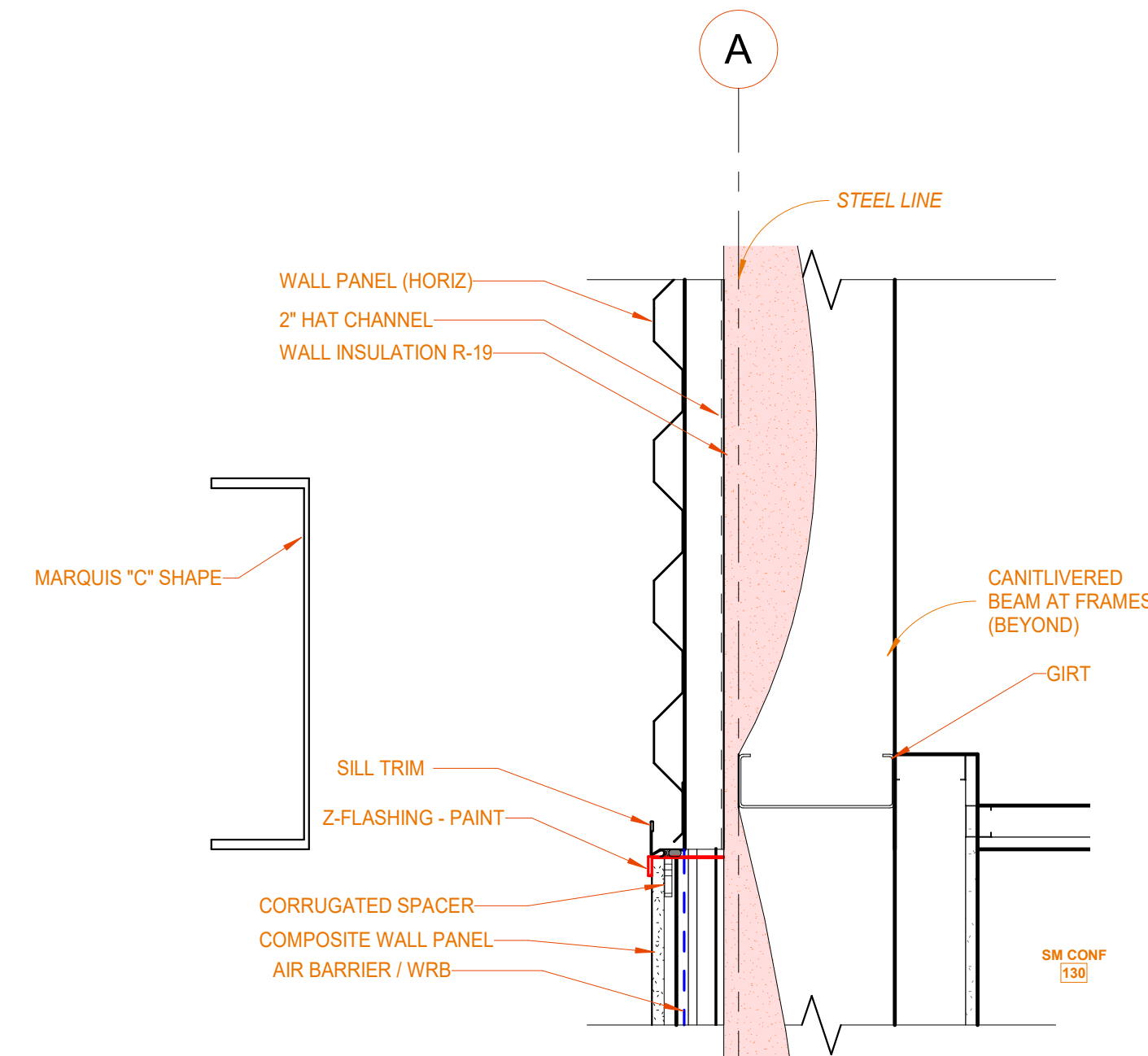




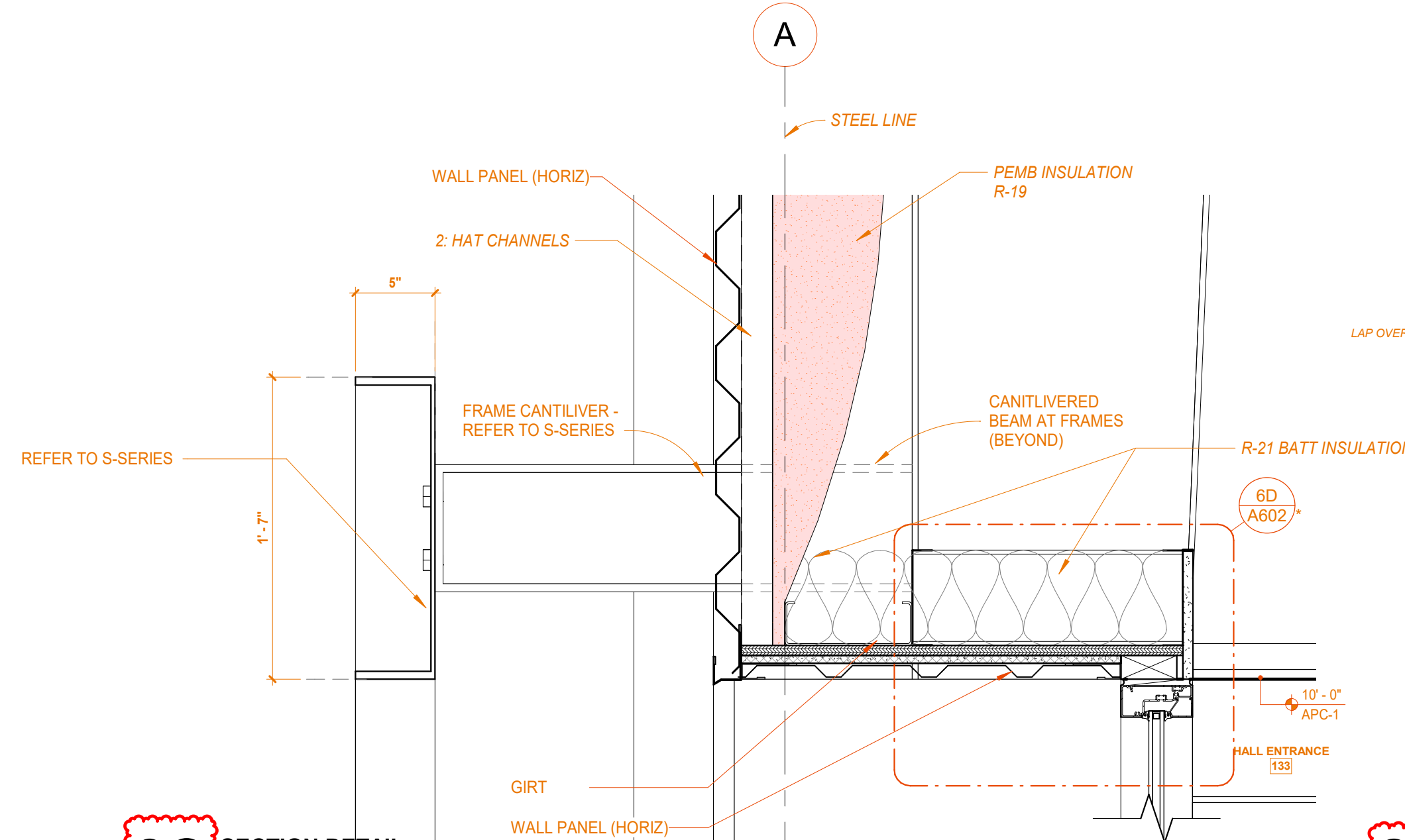
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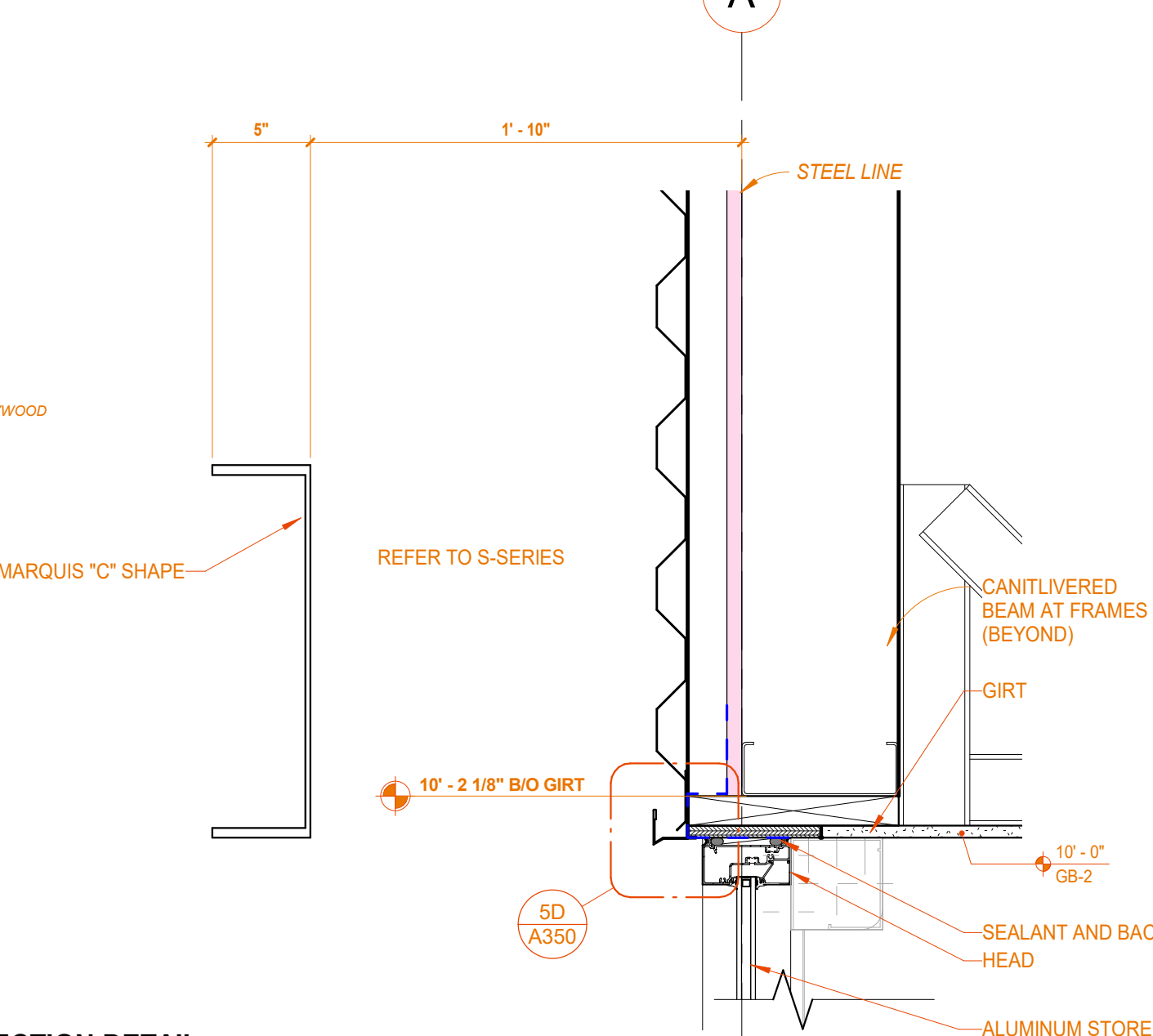
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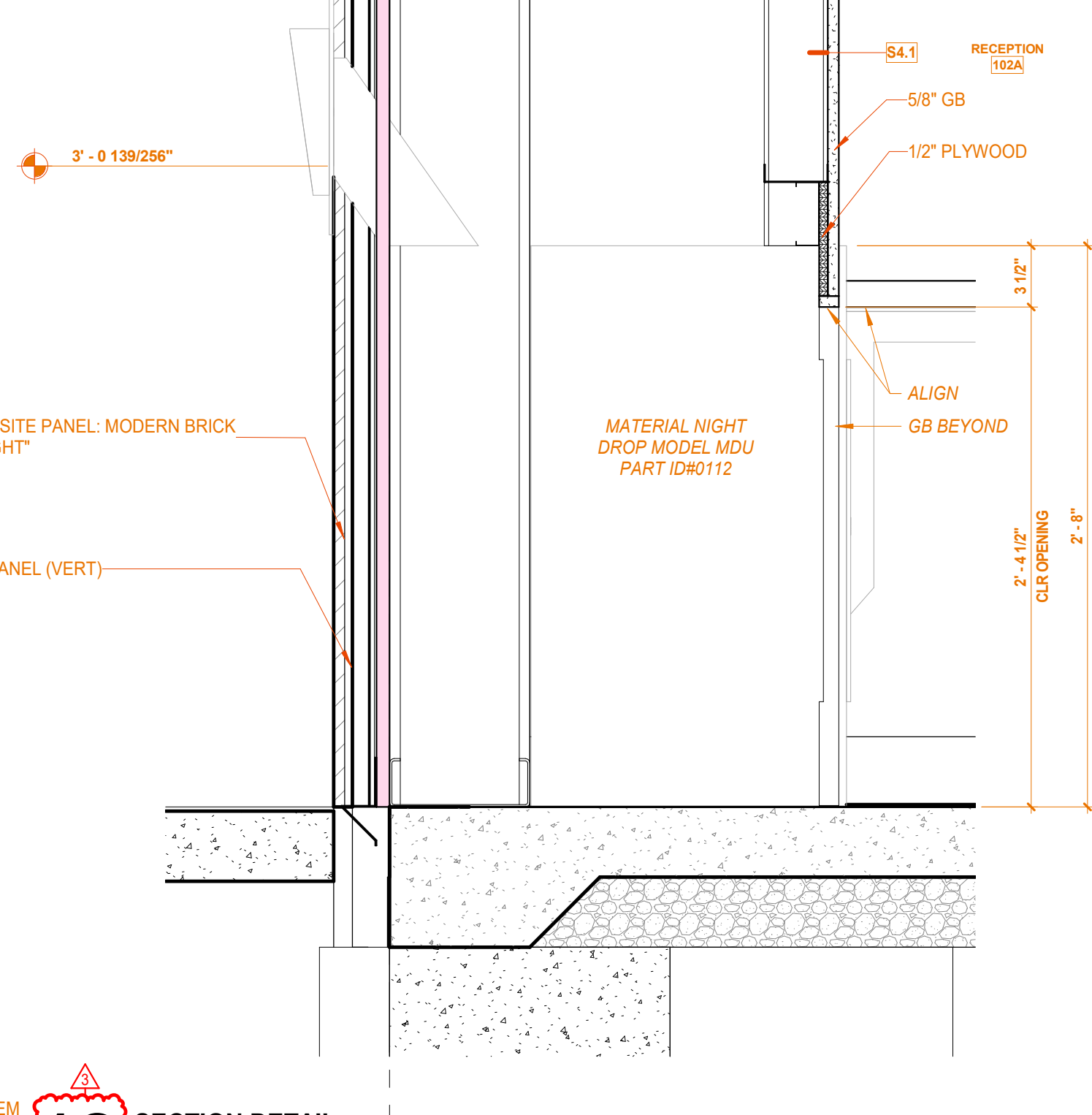
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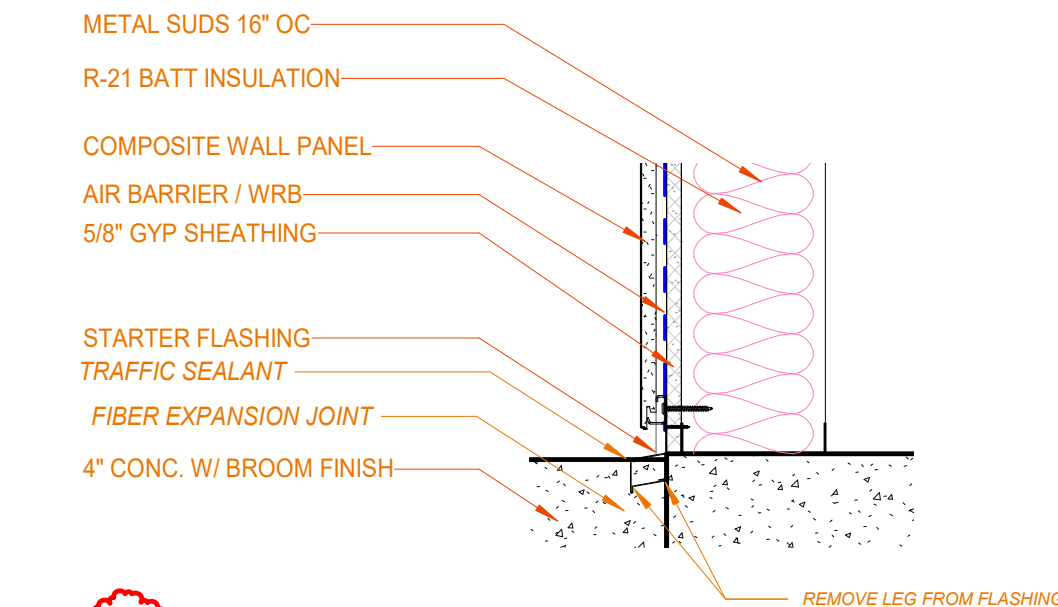
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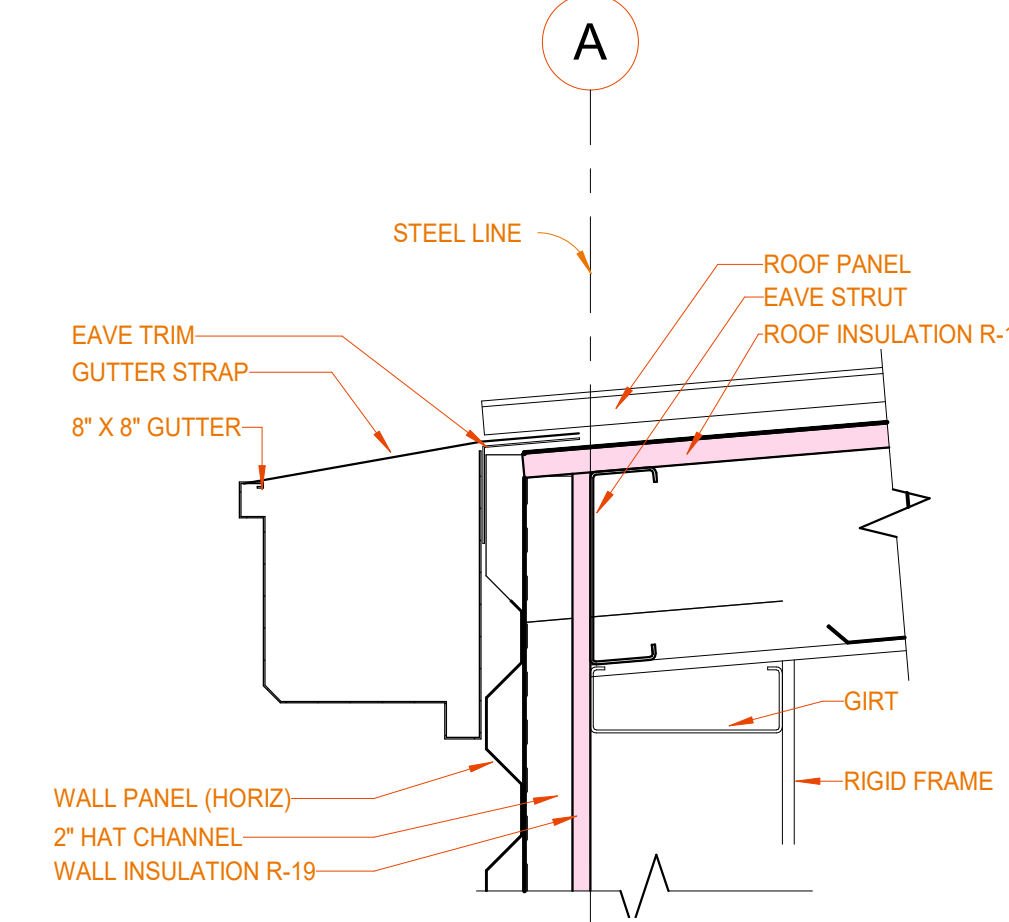
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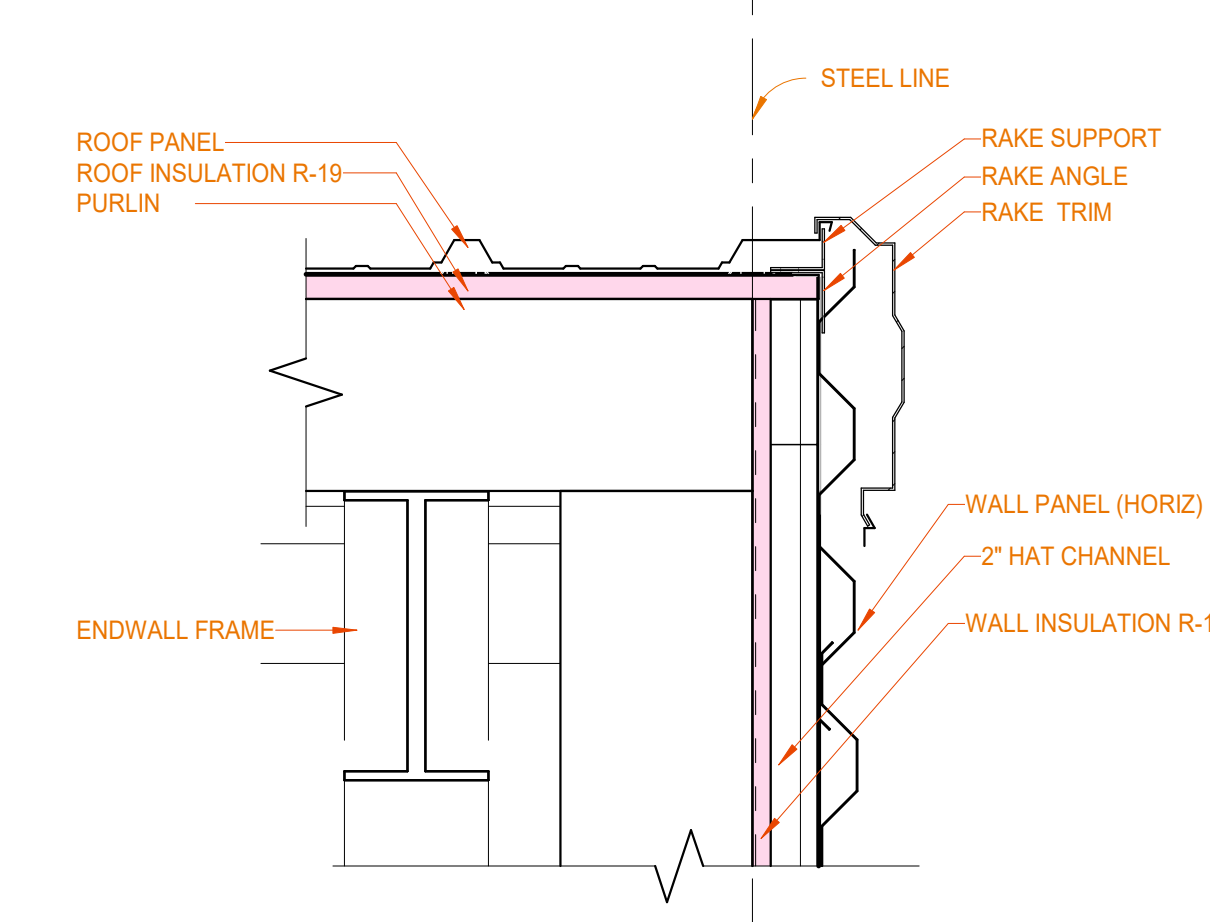
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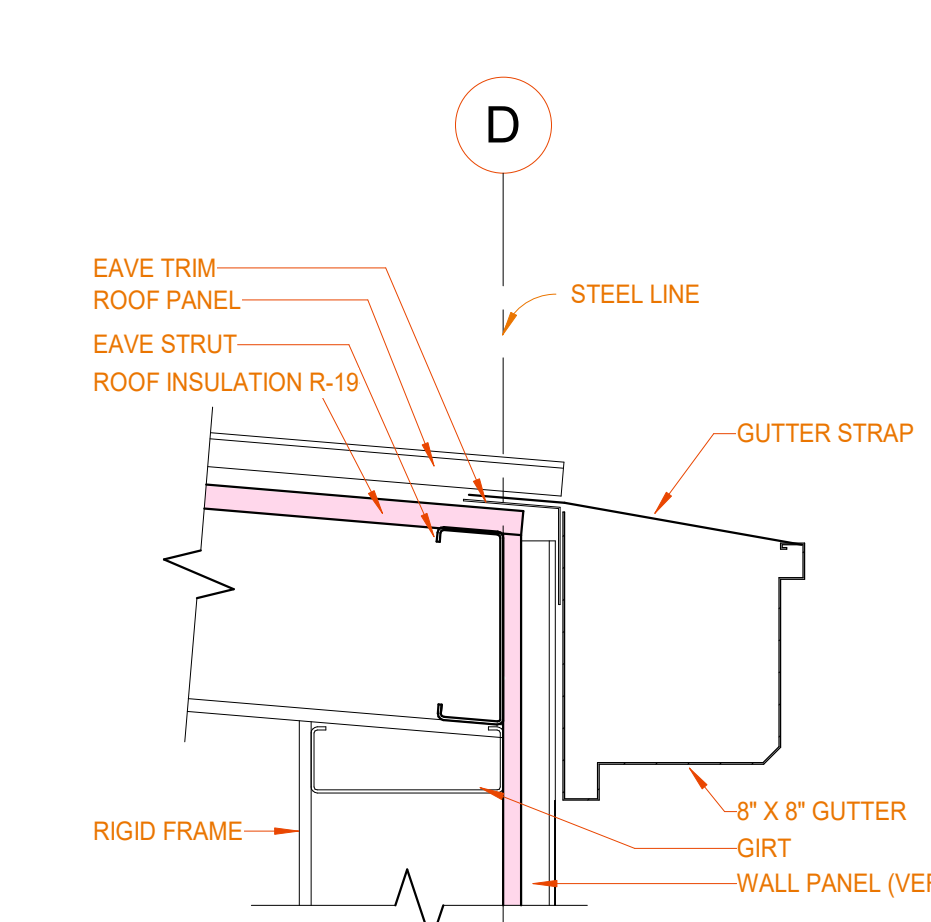
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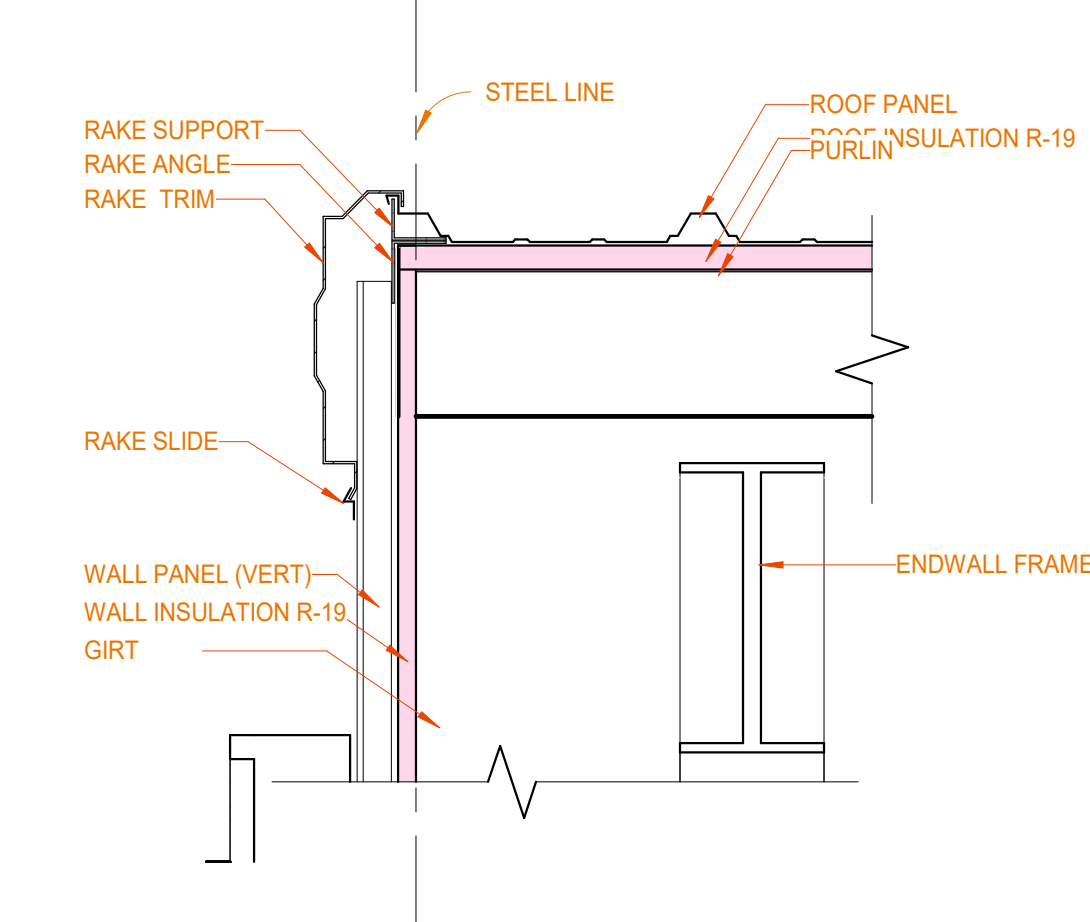
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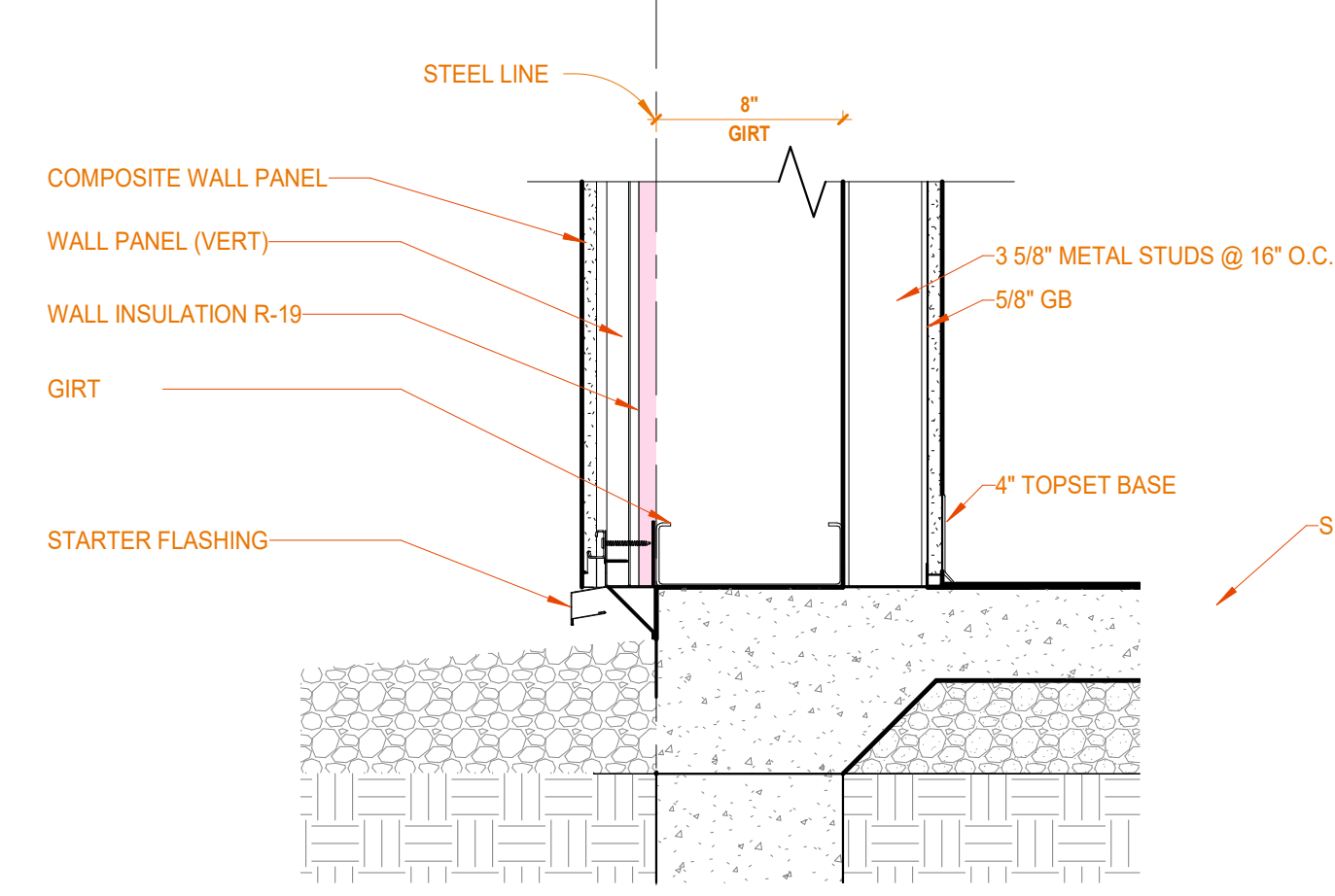
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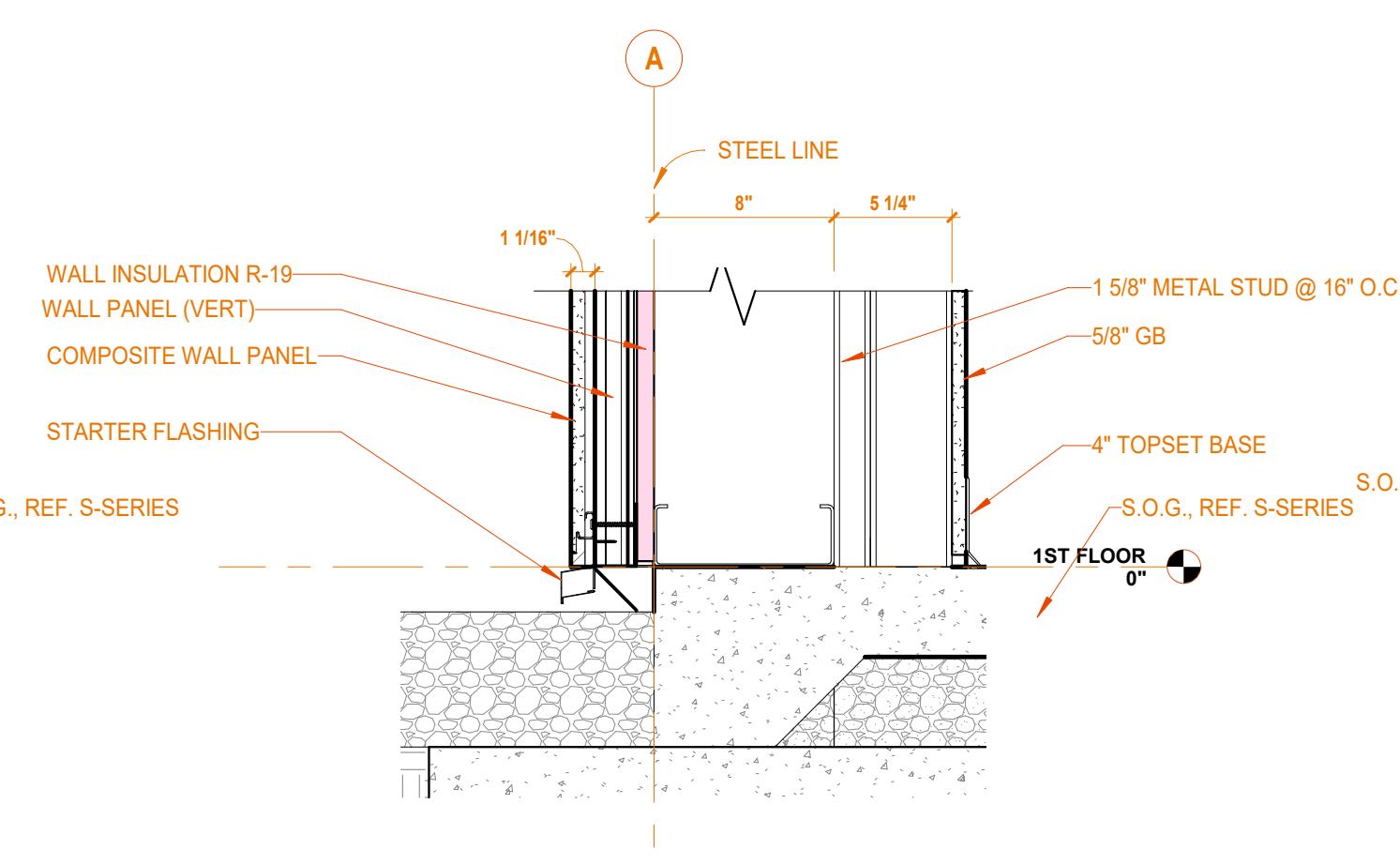
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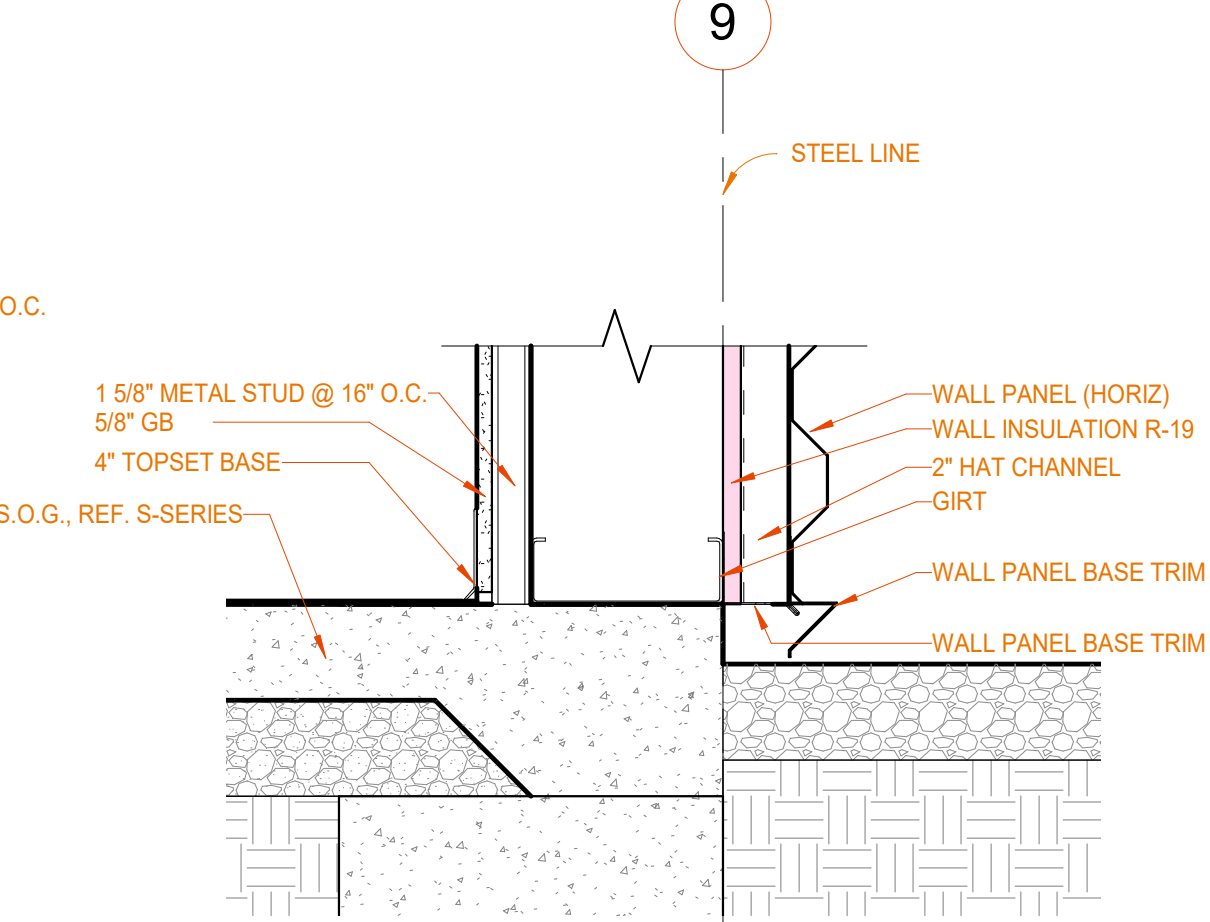
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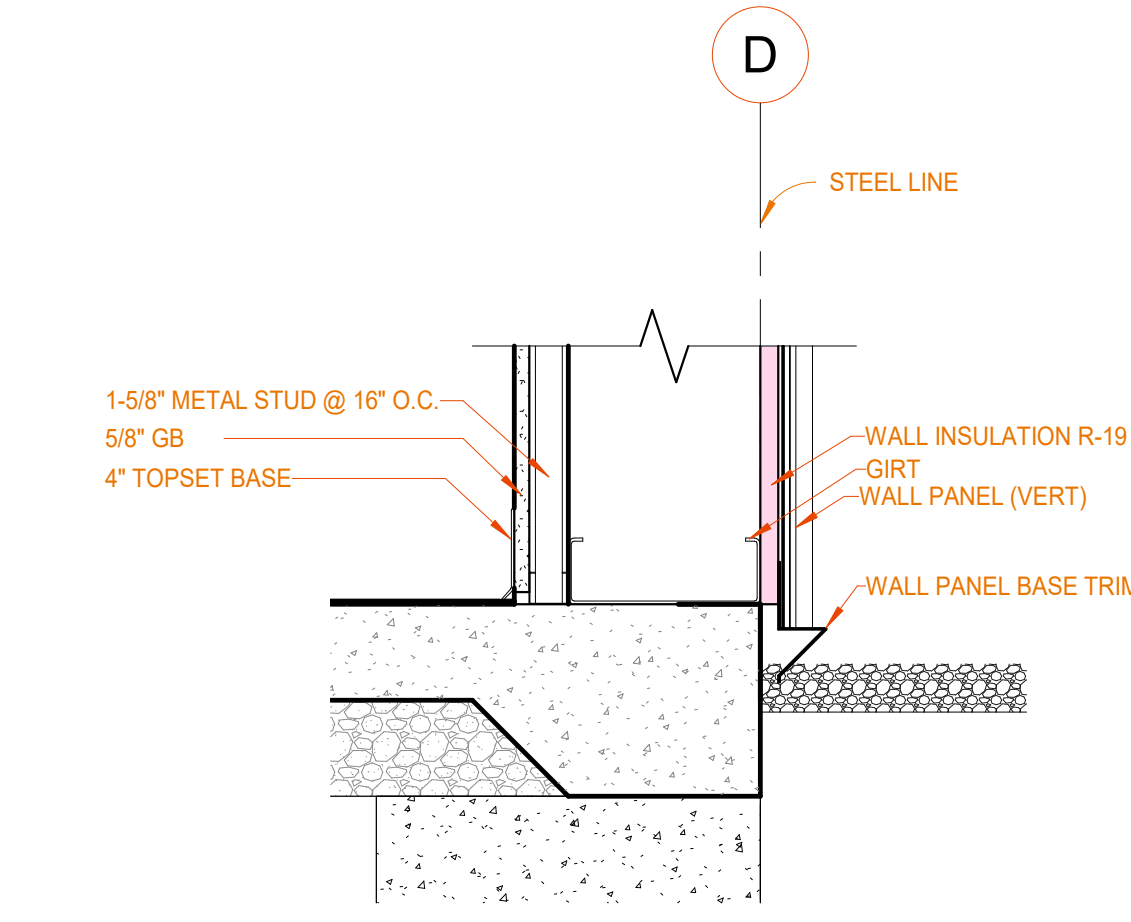
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**3A** SECTION DETAIL  
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**2A** SECTION DETAIL  
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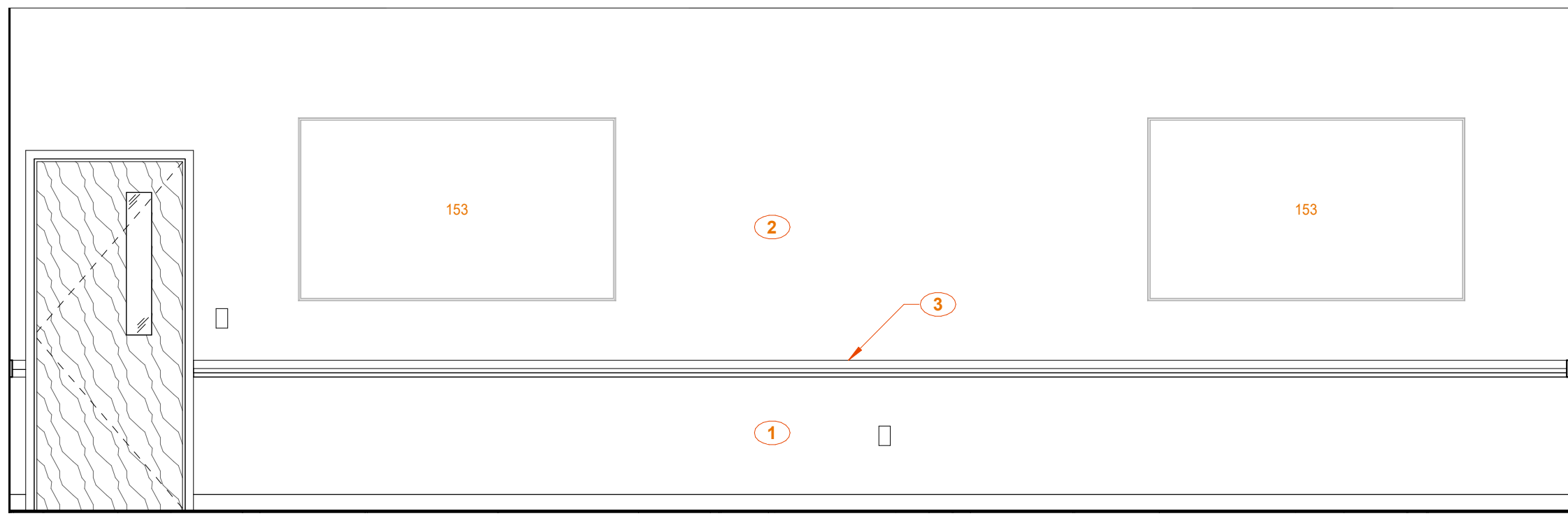
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1 1/2" = 1'-0" REF: 3D / A301

KEYNOTE LEGEND	
03 30 00 A0	S.O.G., REF. S-SERIES
05 40 00 A4	METAL SUDS 16" OC
06 40 00 S1	1-5/8" METAL STUD @ 16" O.C.
06 10 53 A1	2X BLOCKING
06 10 53 A8	1/2" PLYWOOD
06 18 00 A3	5/8" GYP SHEATHING
07 21 00 A6	R-21 BATT INSULATION
07 27 13 A0	AIR BARRIER / WRB
07 42 43 A0	COMPOSITE WALL PANEL
07 42 43 A1	STARTER FLASHING
07 42 43 A4	CORRUGATED SPACER
07 42 43 B2	COMPOSITE PANEL, MODERN BRICK "MIDNIGHT"
07 62 00 D5	Z-FLASHING - PAINT
08 41 13 A1	ALUMINUM STOREFRONT SYSTEM
08 41 13 A7	SEALANT AND BACKER ROD
08 41 13 B4	HEAD
09 22 16 A3	1-5/8" METAL STUD @ 16" O.C.
09 22 16 D3	3-5/8" METAL STUDS @ 16" O.C.
09 29 00 D1	5/8" GB
09 65 13 A1	4" TOPSET BASE
13 34 19 A2	RIGID FRAME
13 34 19 A5	ENDWALL FRAME
13 34 19 A10	MARQUIS 'C' SHAPE
13 34 19 B2	PURLIN
13 34 19 B3	GIRT
13 34 19 B4	EAVE STRUT
13 34 19 B8	2" HAT CHANNEL

KEYNOTE LEGEND	
13 34 19 C2	ROOF PANEL
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C4	WALL PANEL (HORIZ)
13 34 19 C6	WALL PANEL BASE TRIM
13 34 19 C9	RAKE TRIM
13 34 19 C10	EAVE TRIM
13 34 19 C14	HEAD TRIM
13 34 19 C15	SILL TRIM
13 34 19 D3	6" X 8" GUTTER
13 34 19 D9	RAKE SLIDE
13 34 19 D10	RAKE SUPPORT
13 34 19 D11	RAKE ANGLE
13 34 19 D12	GUTTER STRAP
13 34 19 E2	WALL INSULATION R-19
13 34 19 E3	ROOF INSULATION R-19
32 13 00 B3	4" CONC. W/ BROOM FINISH

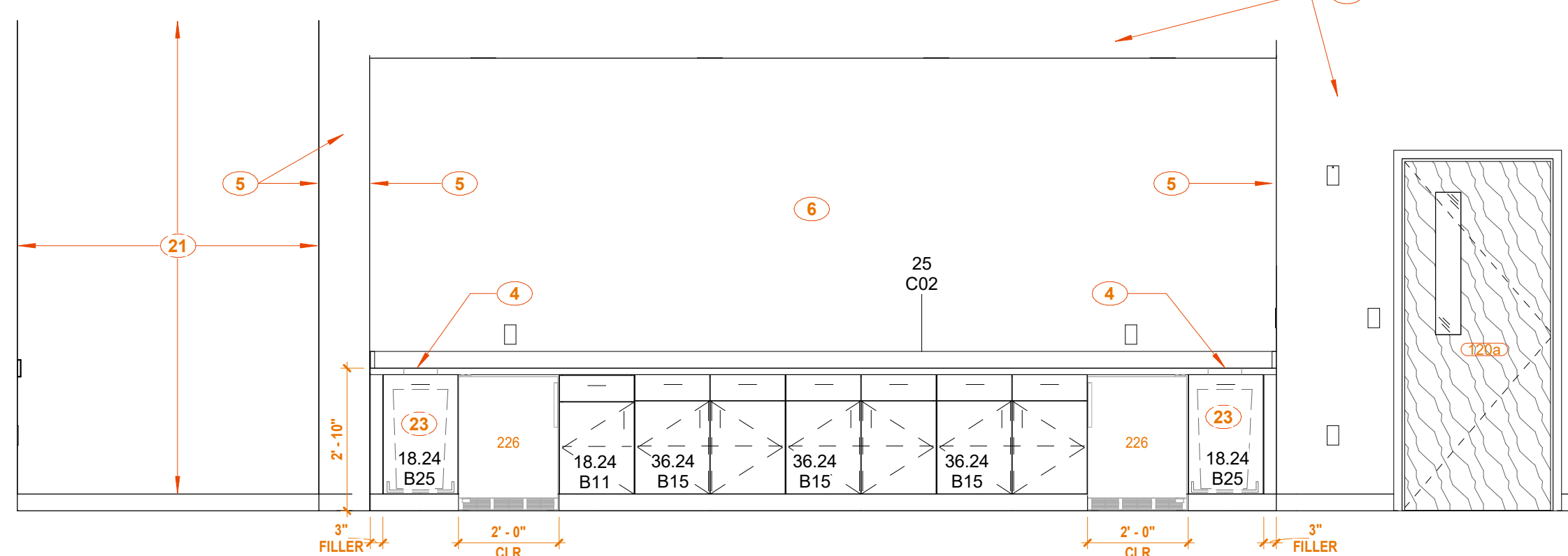


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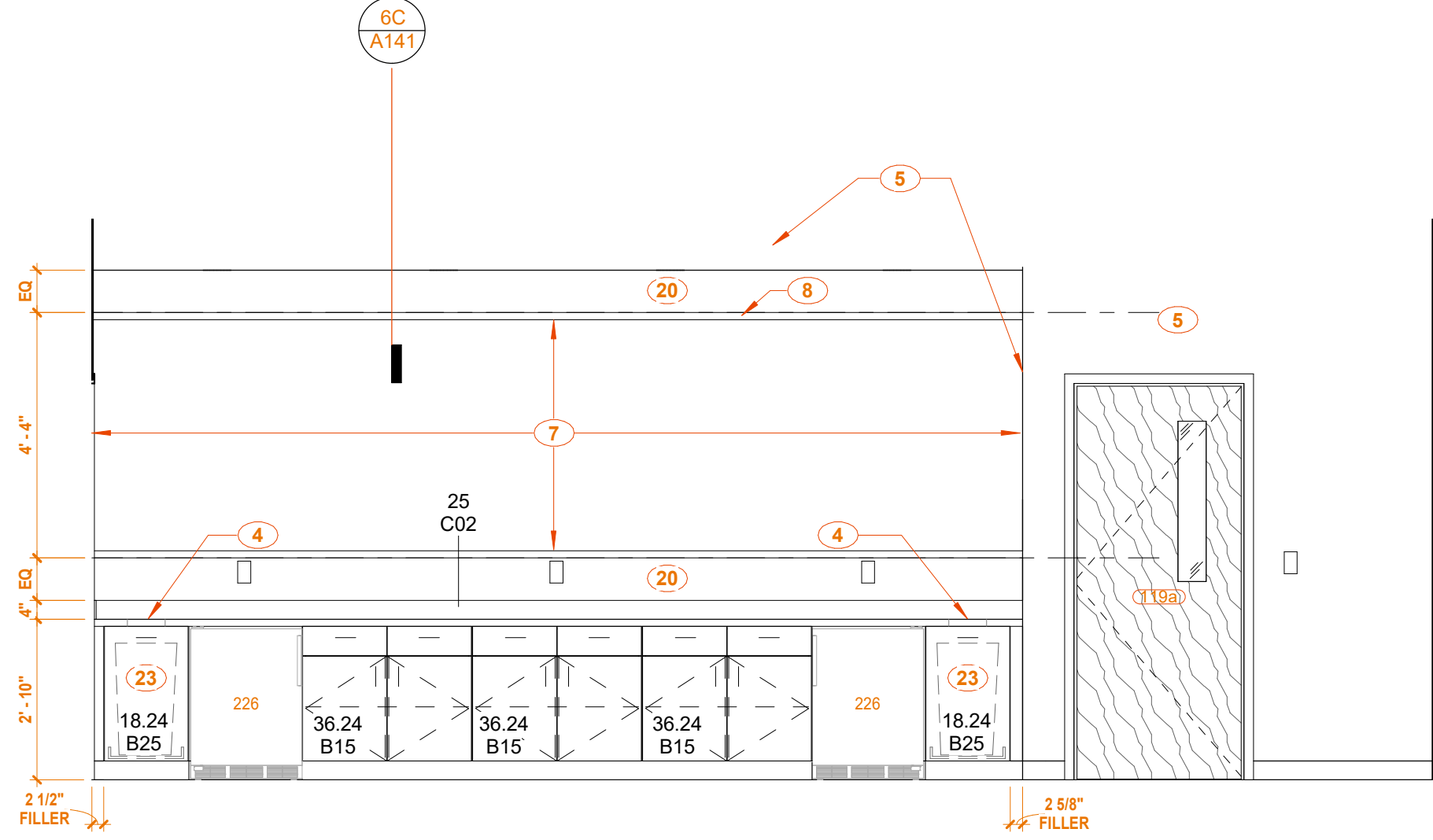
2E 124 TRAINING ROOM - NORTH

3/8" = 1'-0" REF: 30 / A111



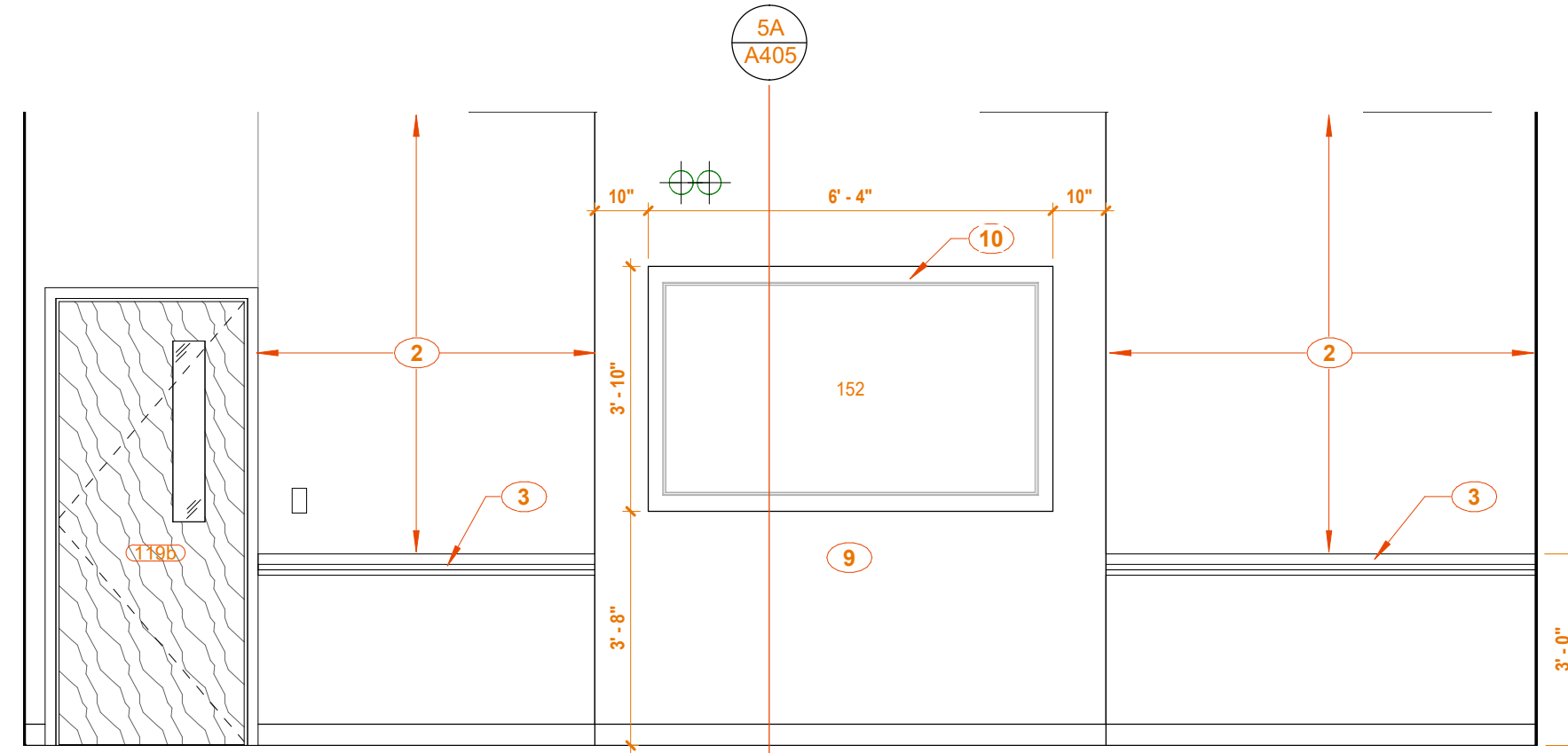
1E 124 TRAINING ROOM - SOUTH

3/8" = 1'-0" REF: 30 / A111



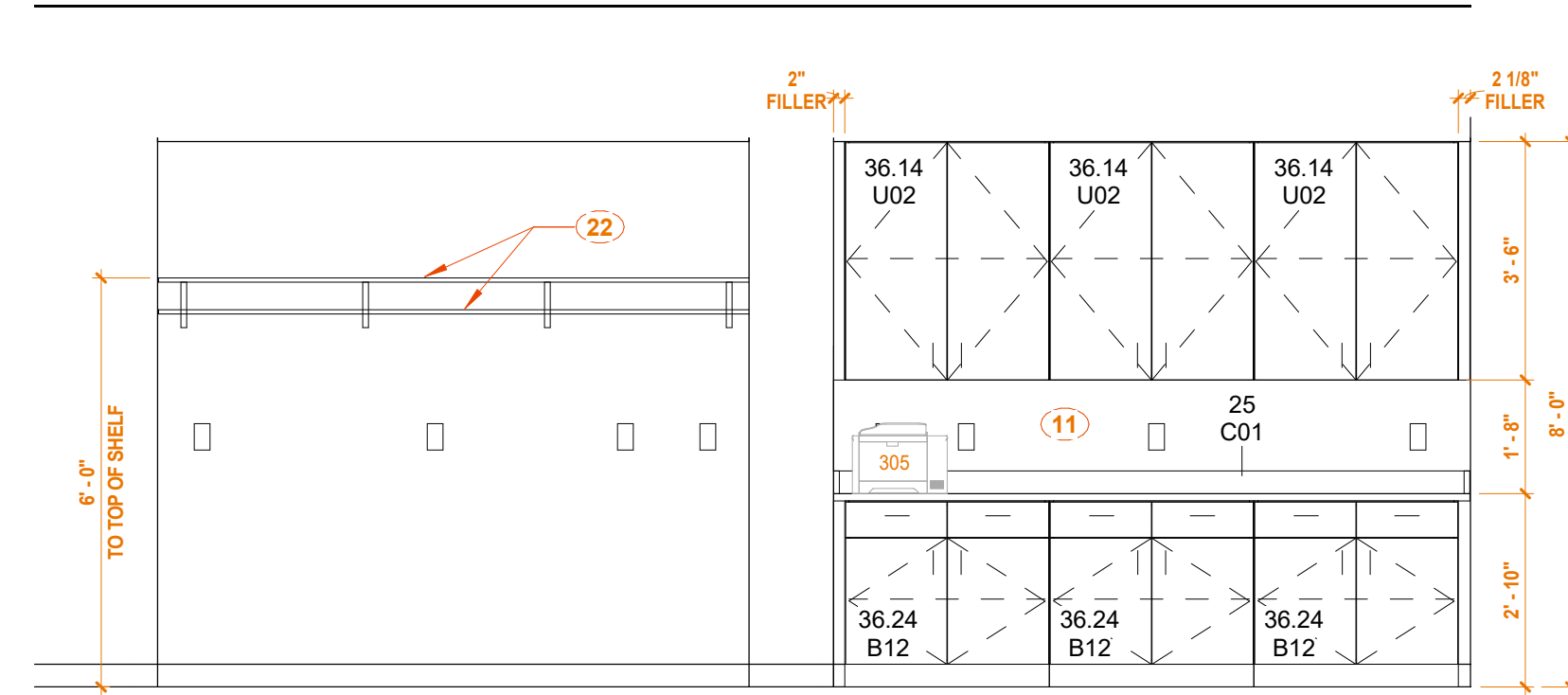
3D LARGE CONFERENCE - SOUTH

3/8" = 1'-0" REF: 1A / A121



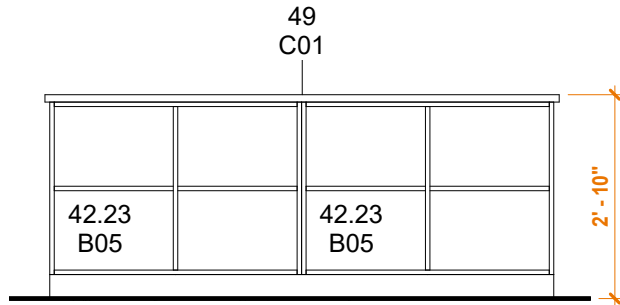
2D LARGE CONFERENCE - NORTH

3/8" = 1'-0" REF: 1A / A121



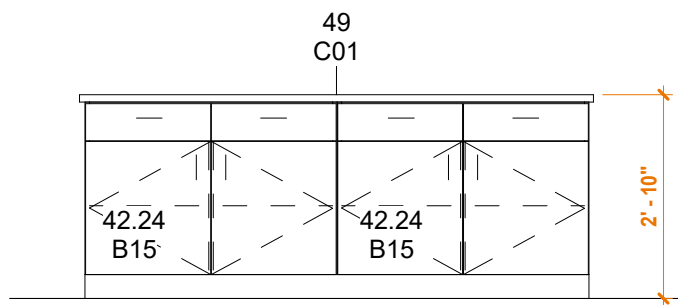
1D PASSAGE WORK AREA - WEST

3/8" = 1'-0" REF: 20 / A111



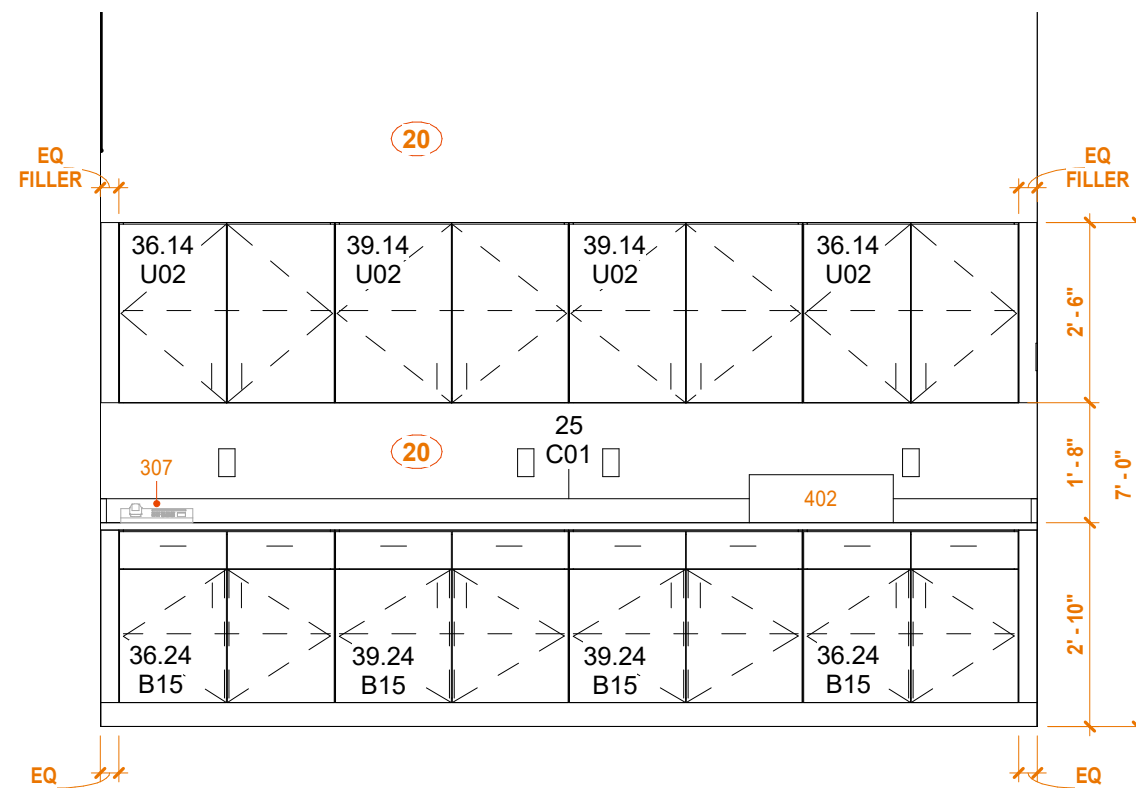
5C WORK ROOM ISLAND - EAST

3/8" = 1'-0" REF: 1A / A121



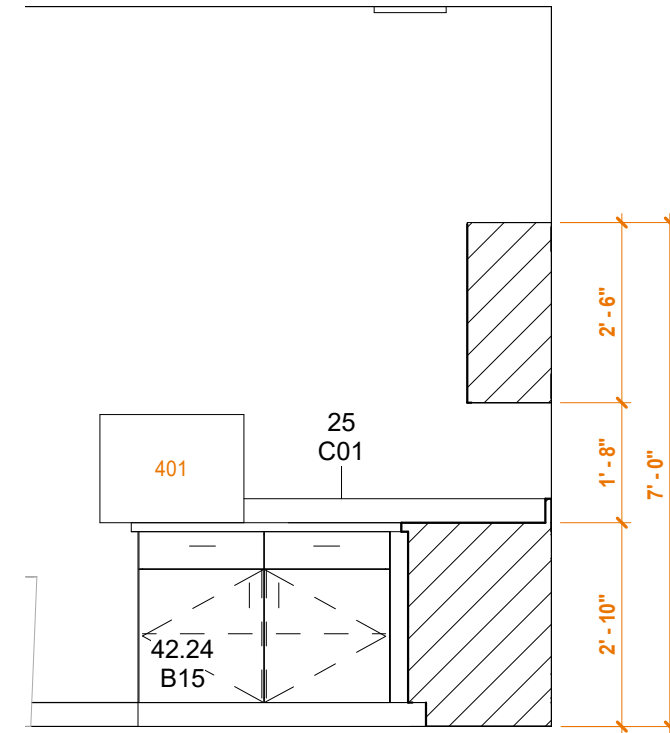
4C WORK ROOM ISLAND - WEST

3/8" = 1'-0" REF: 1A / A121



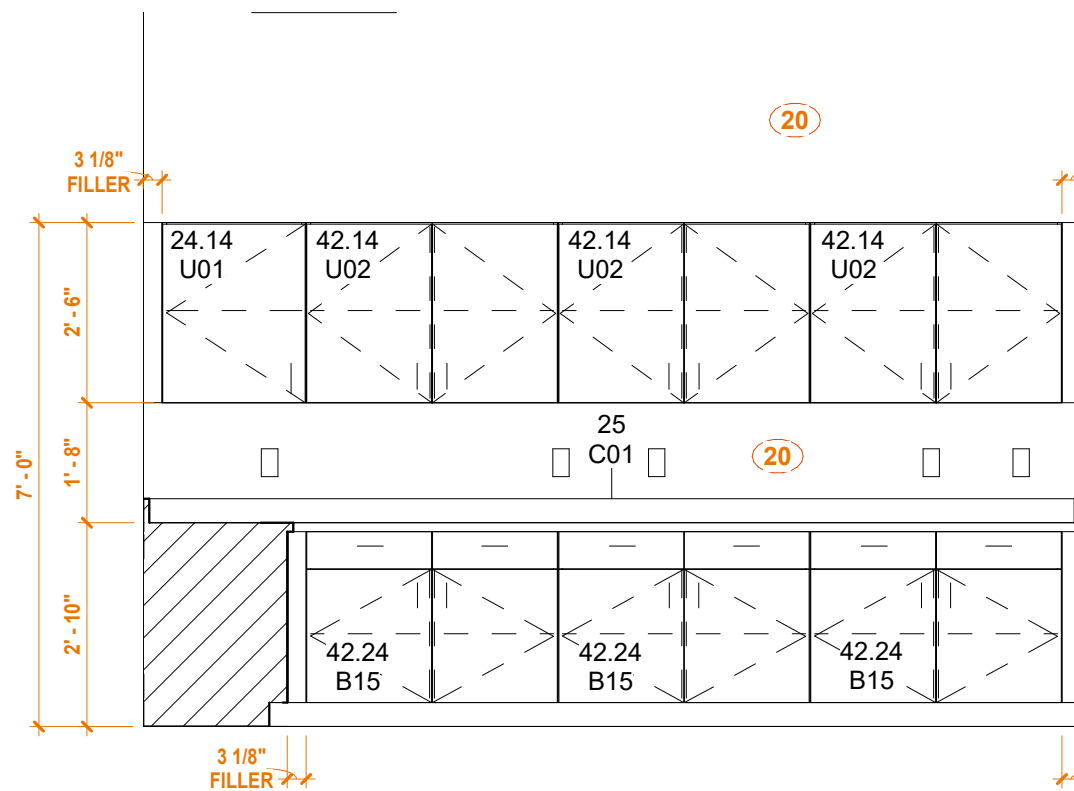
3C WORK ROOM - SOUTH

3/8" = 1'-0" REF: 1A / A121



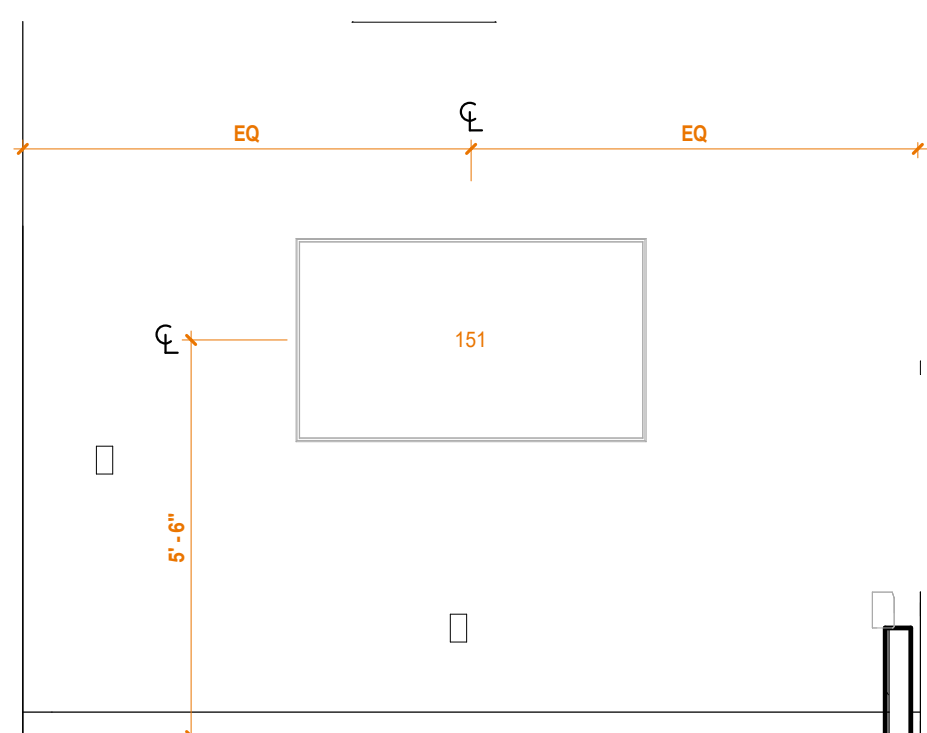
2C WORK ROOM - WEST

3/8" = 1'-0" REF: 1A / A121



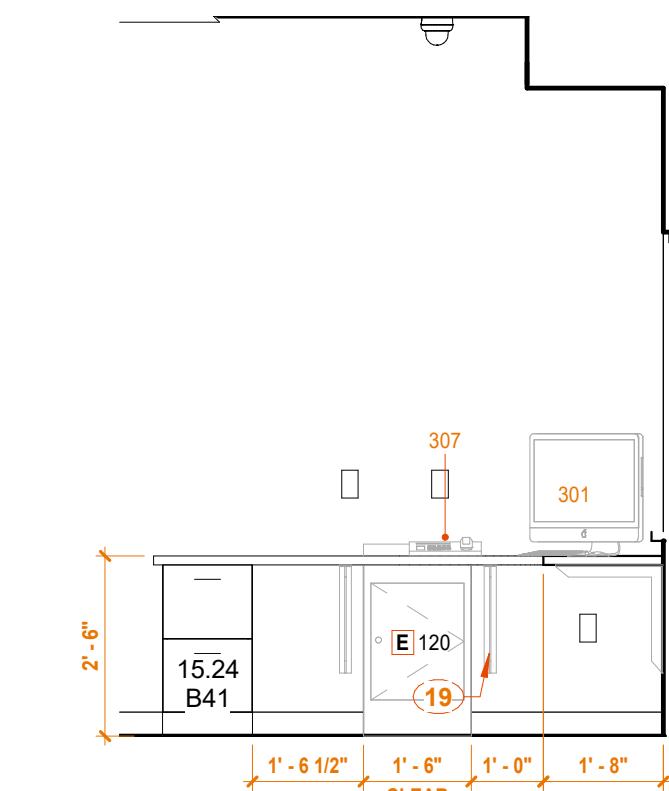
1C WORK ROOM - NORTH

3/8" = 1'-0" REF: 1A / A121



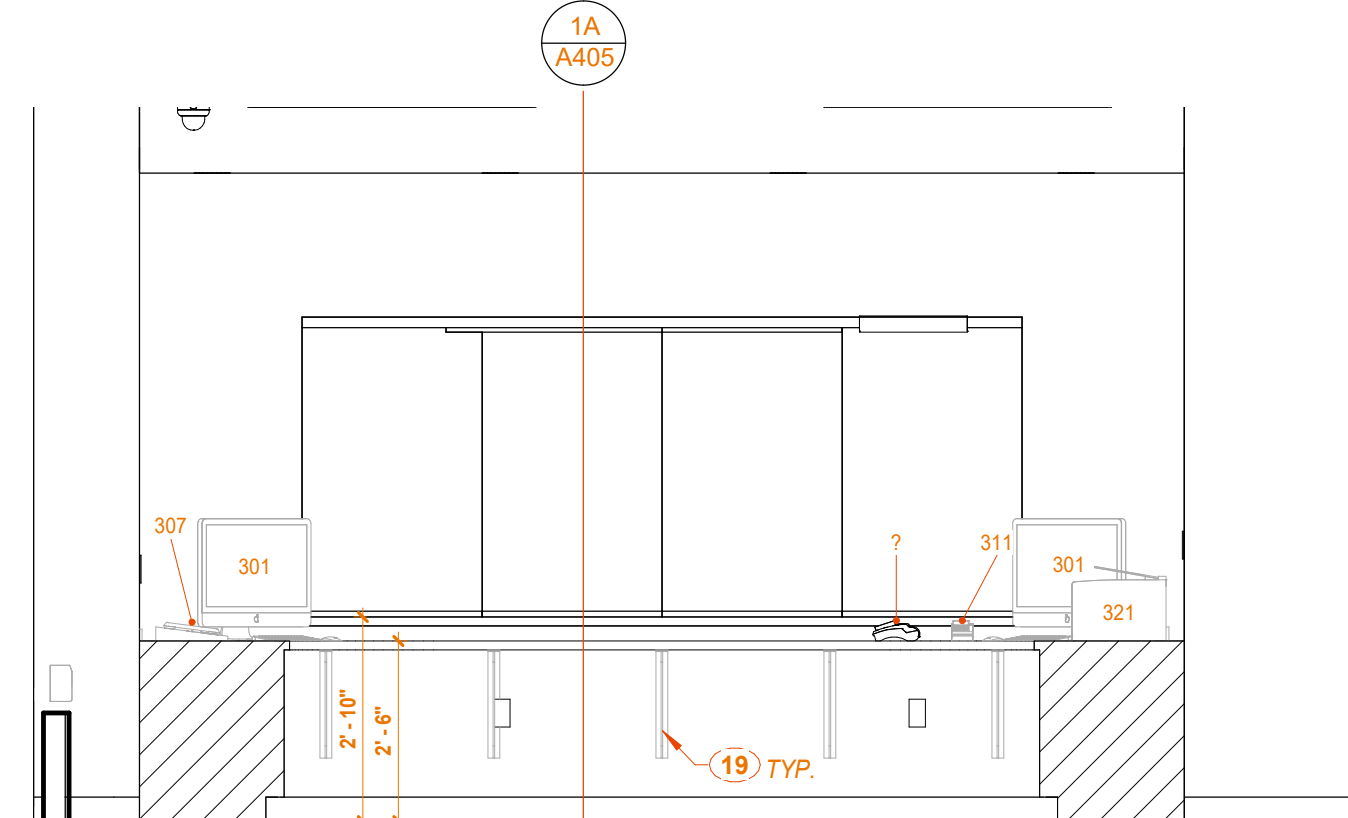
5B ADMIN CONF AREA - NORTH

3/8" = 1'-0" REF: 1A / A121



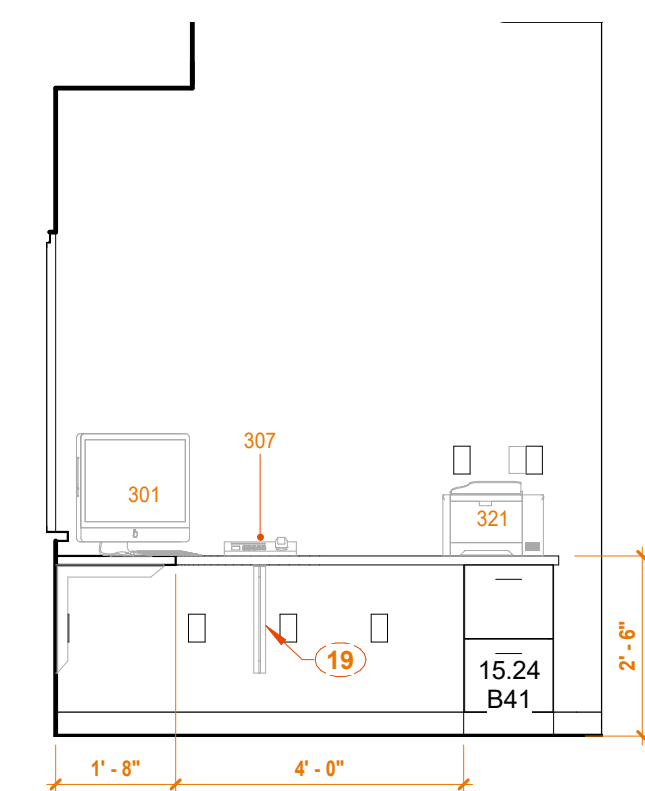
4B 101A RECEPTION - SOUTH

3/8" = 1'-0" REF: 1A / A121



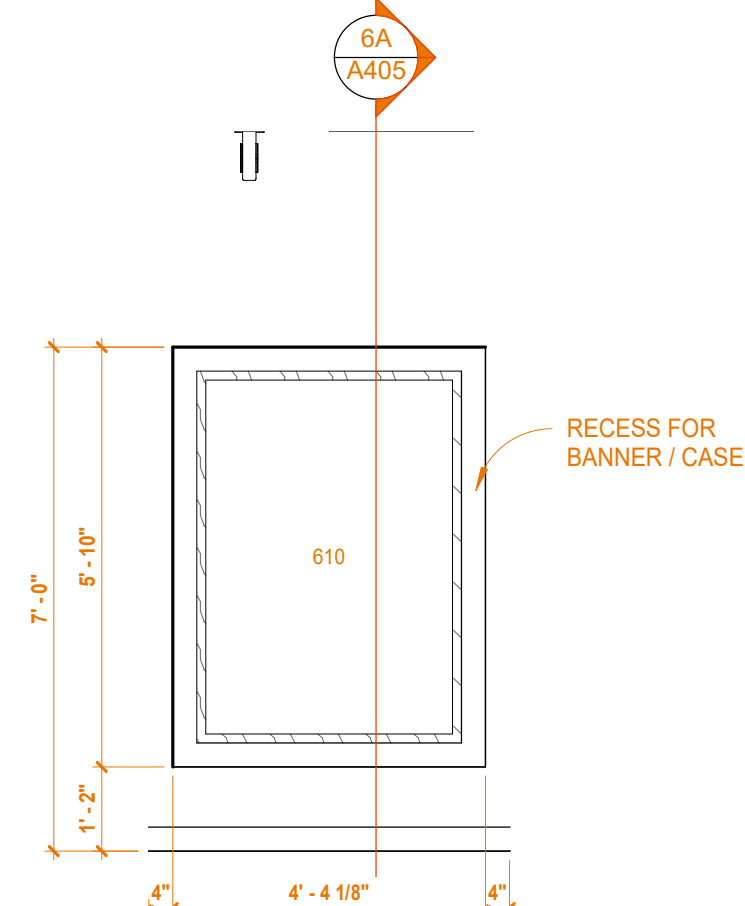
3B 101A RECEPTION - WEST

3/8" = 1'-0" REF: 1A / A121



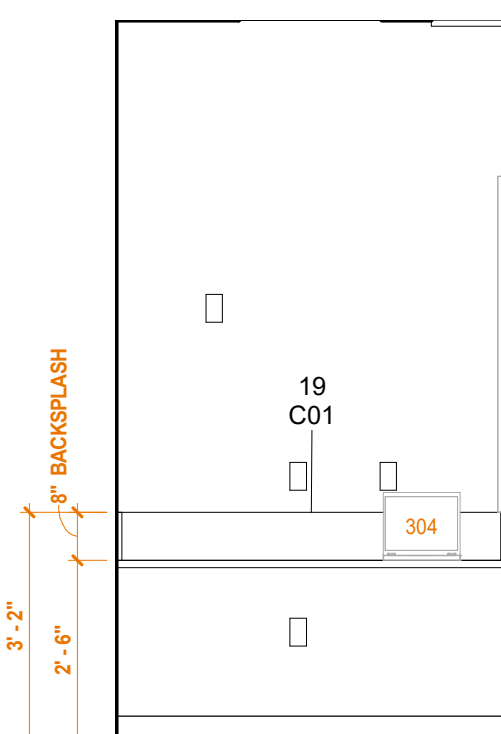
2B 101A RECEPTION - NORTH

3/8" = 1'-0" REF: 1A / A121



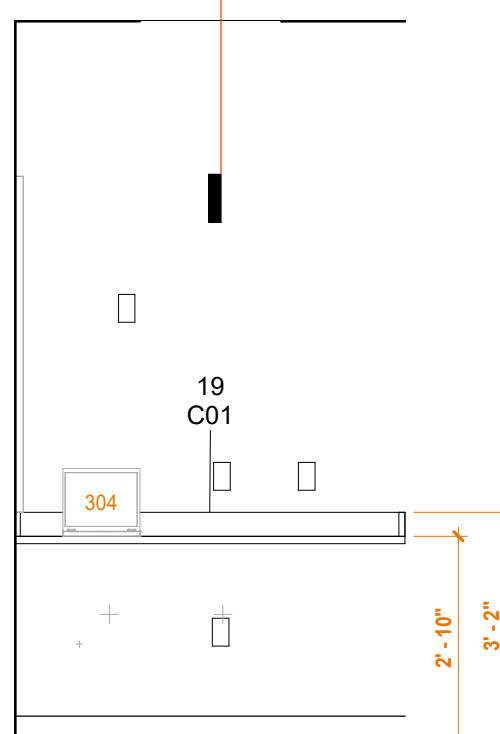
1B 002 PASSAGE - EAST

3/8" = 1'-0" REF: 1A / A121



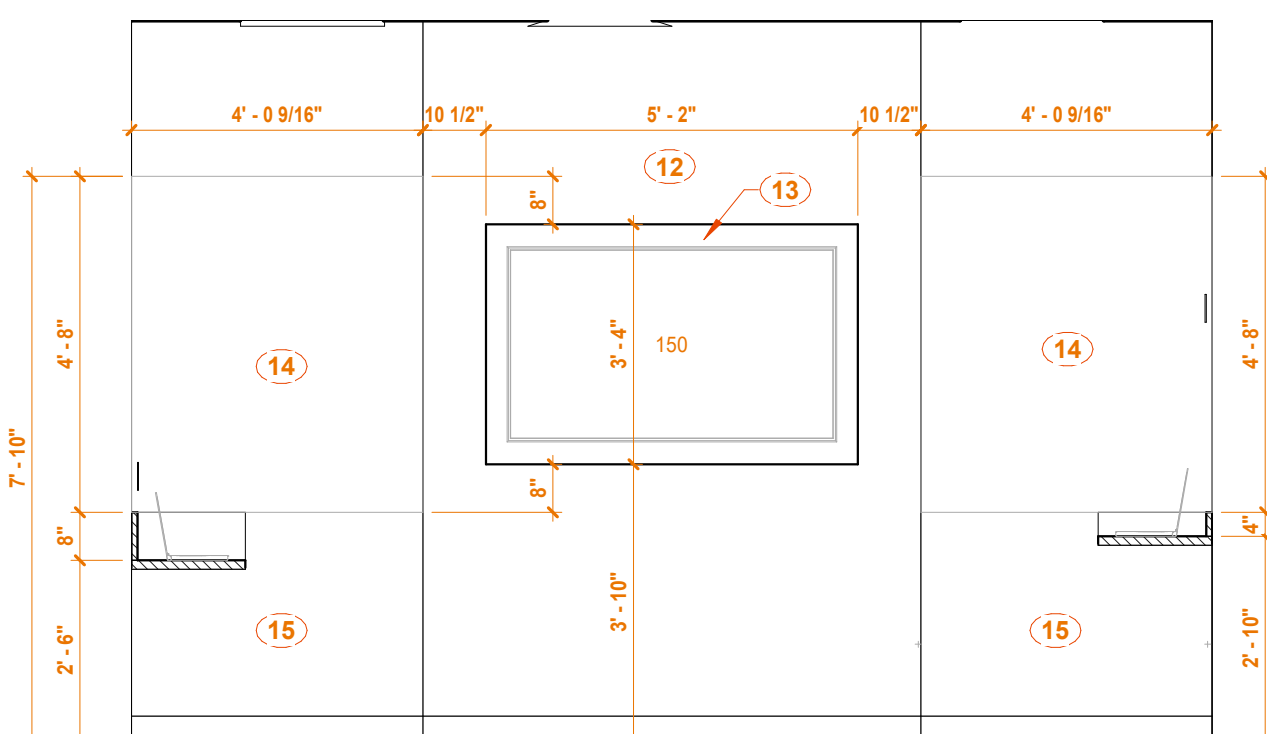
5A MEMBERS ALCOVE - SOUTH

3/8" = 1'-0" REF: 1A / A121

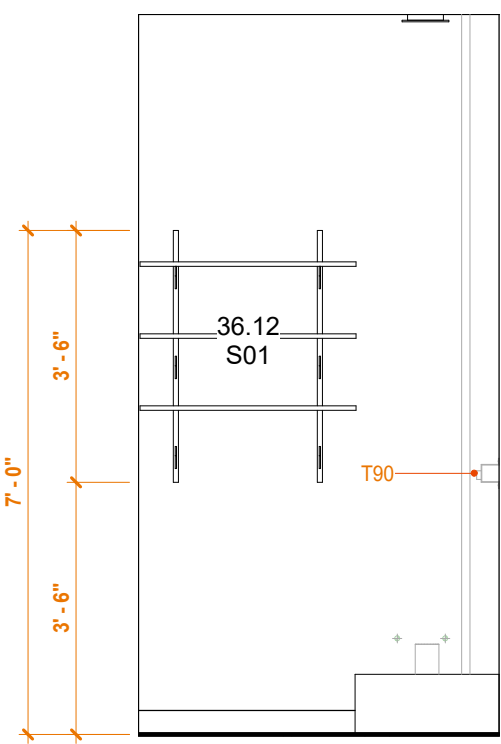


4A MEMBERS ALCOVE - NORTH

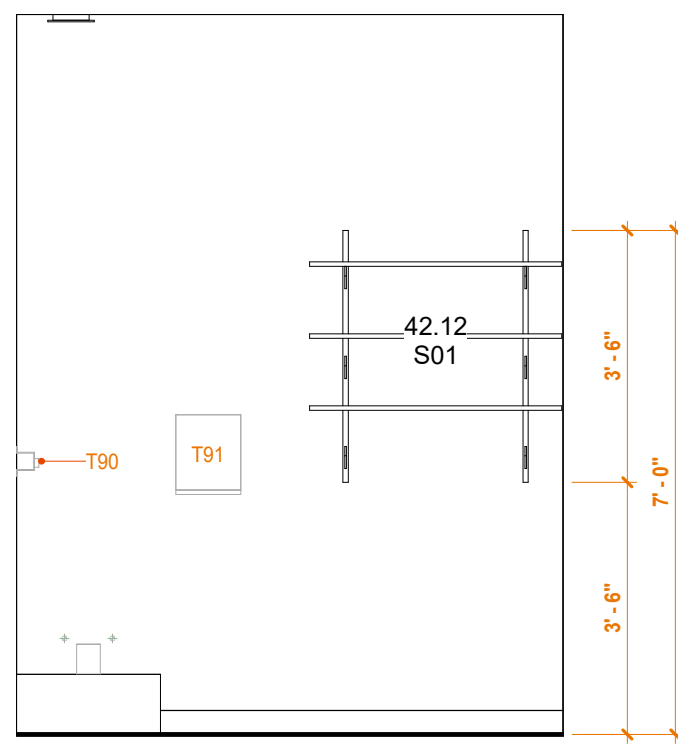
3/8" = 1'-0" REF: 1A / A121



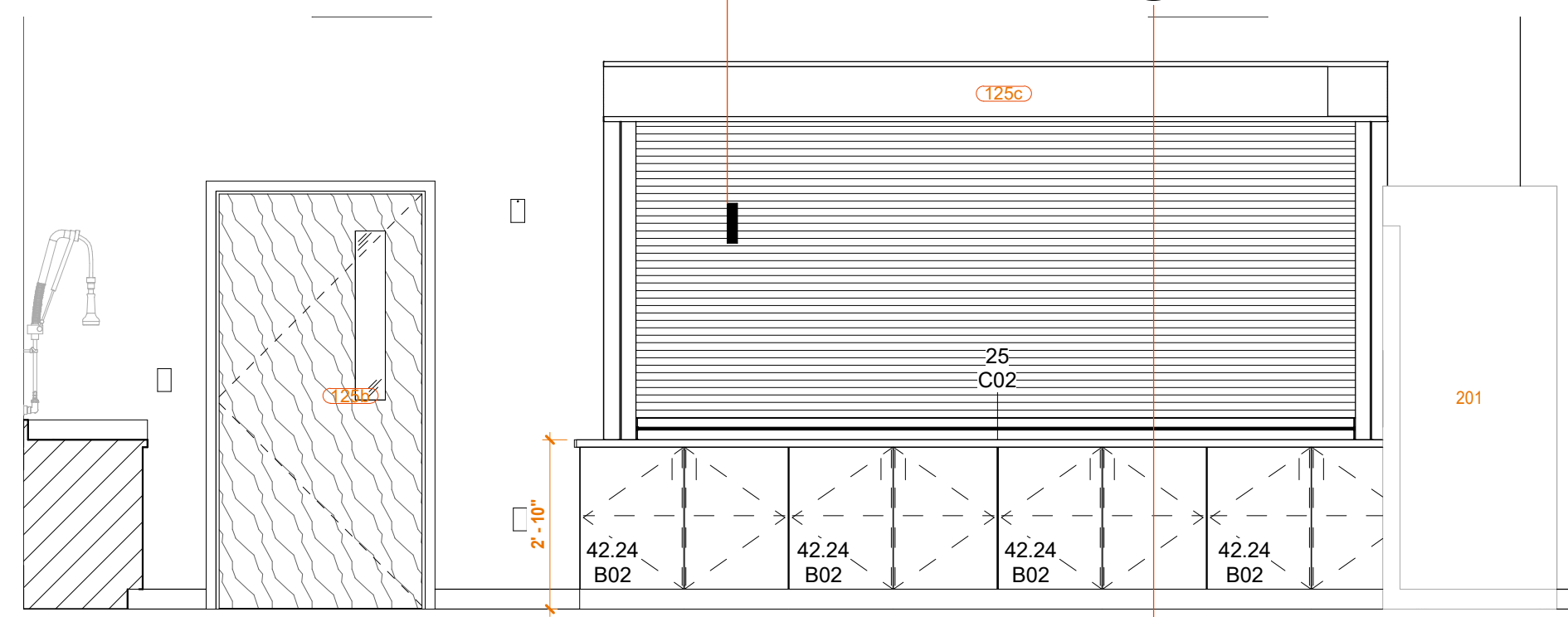




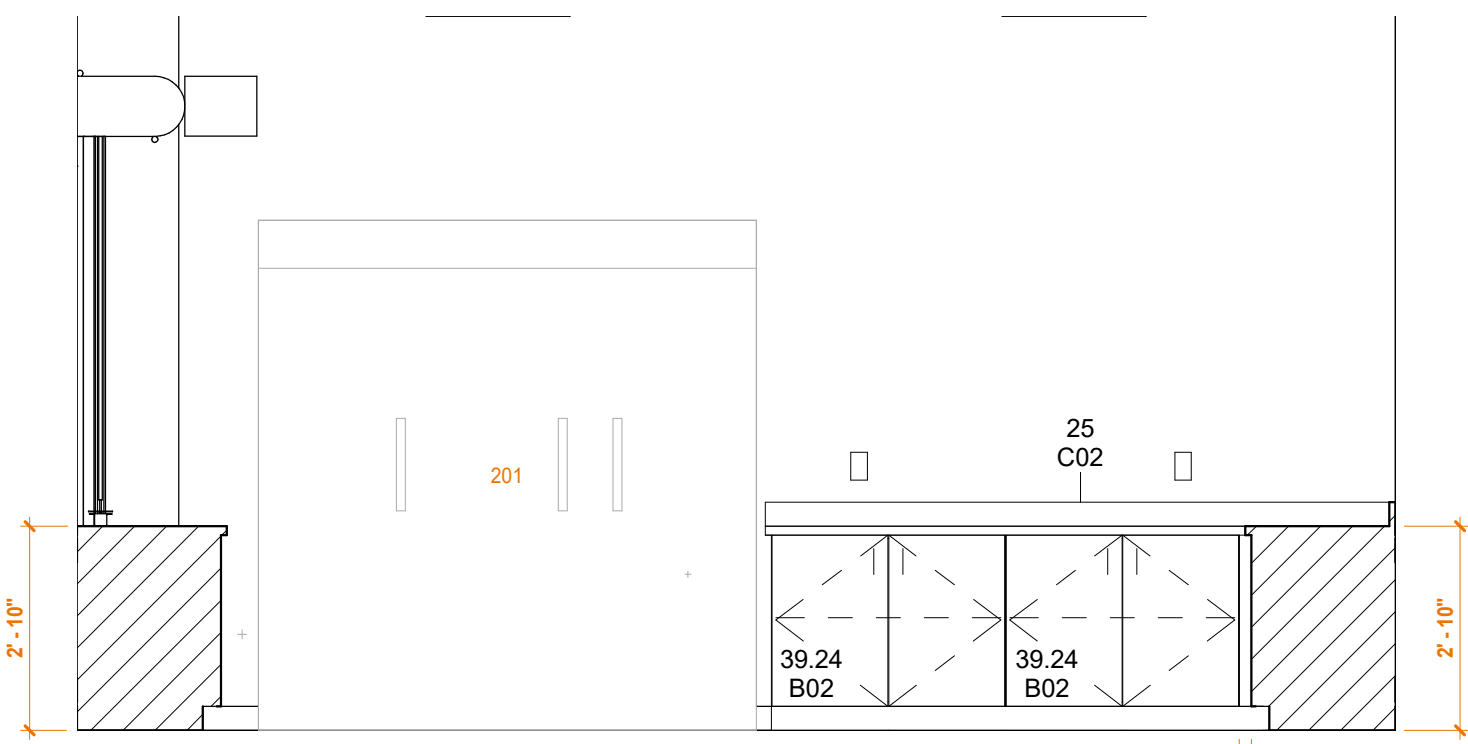
**3E 116 JANITOR - EAST**  
3/8" = 1'-0" REF: 1A/A021



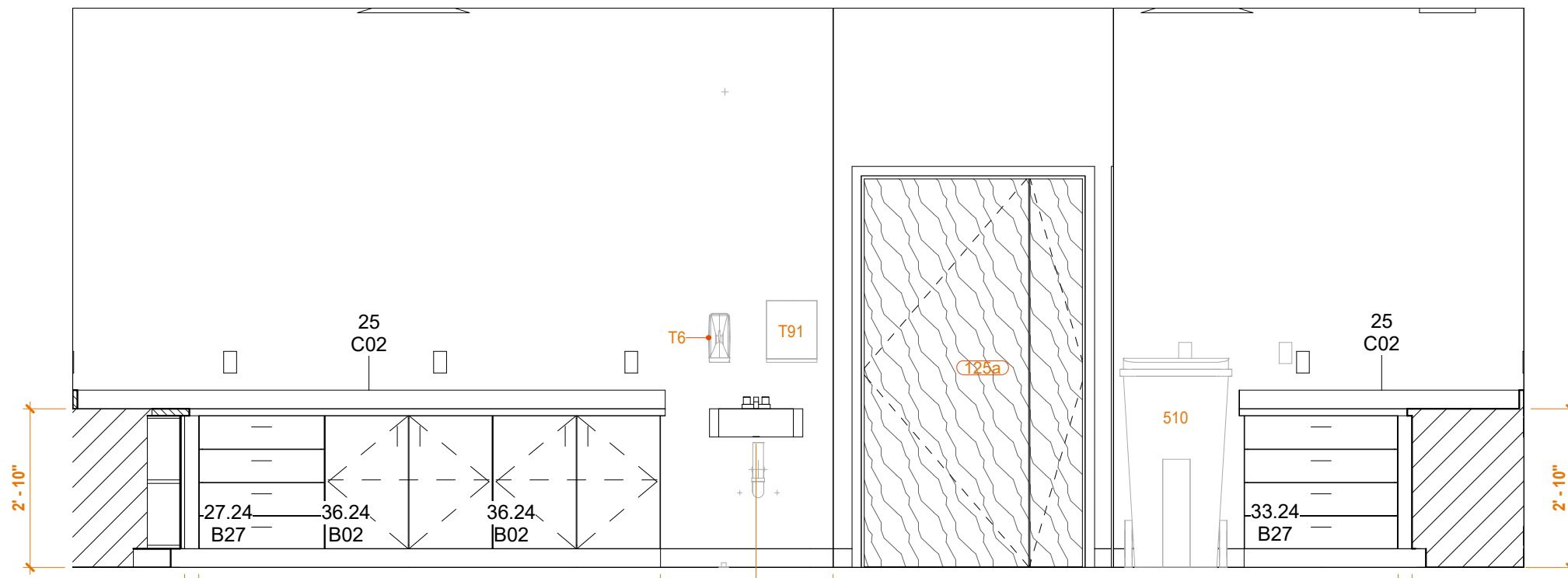
**2E 134 JANITOR - EAST**  
3/8" = 1'-0" REF: 1A/A021



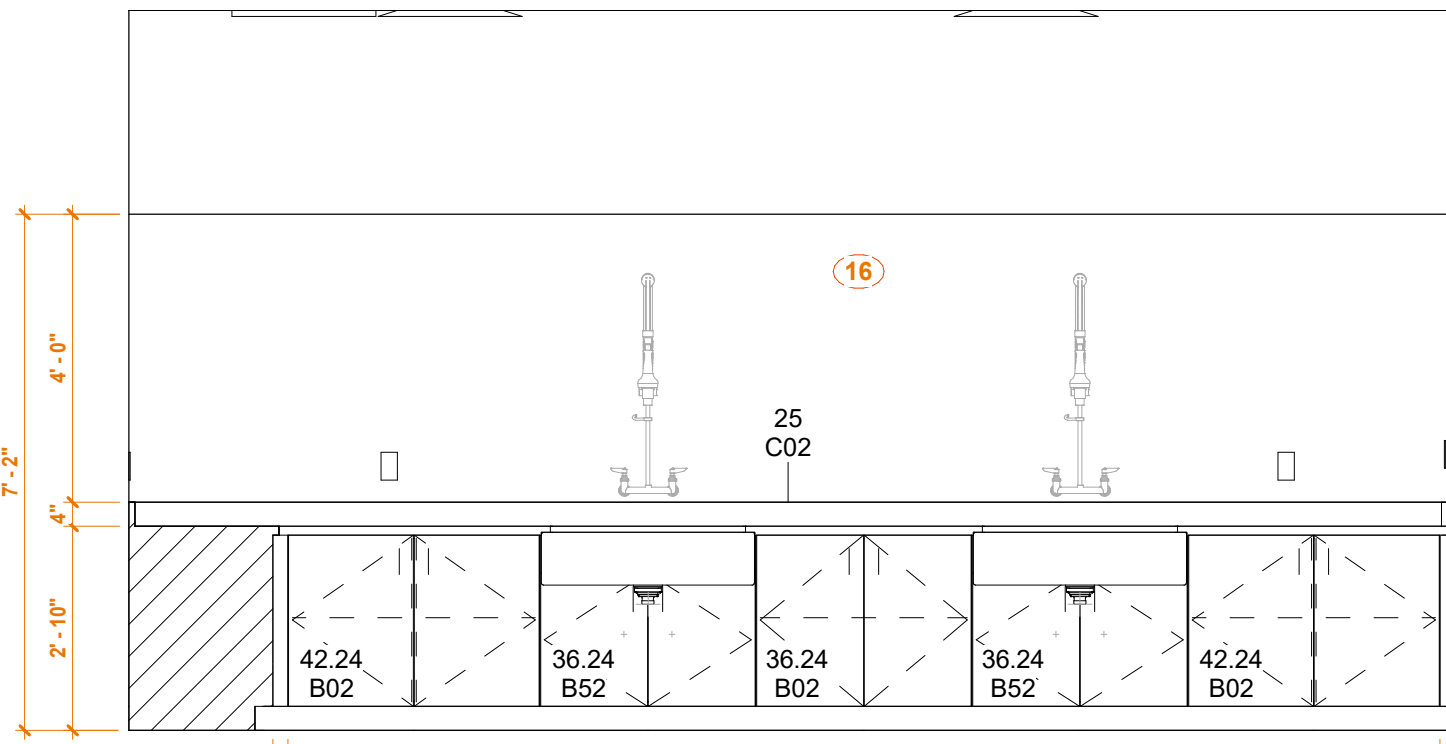
**1E WARMING KITCHEN - WEST**  
3/8" = 1'-0" REF: 5D/A111



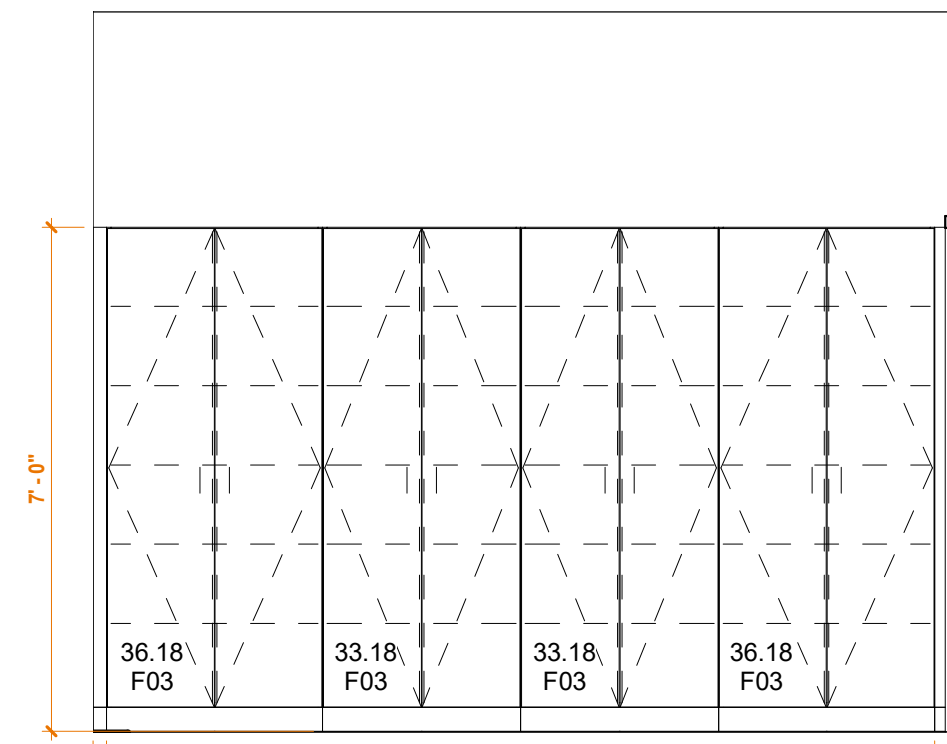
**3D WARMING KITCHEN - NORTH**  
3/8" = 1'-0" REF: 5D/A111



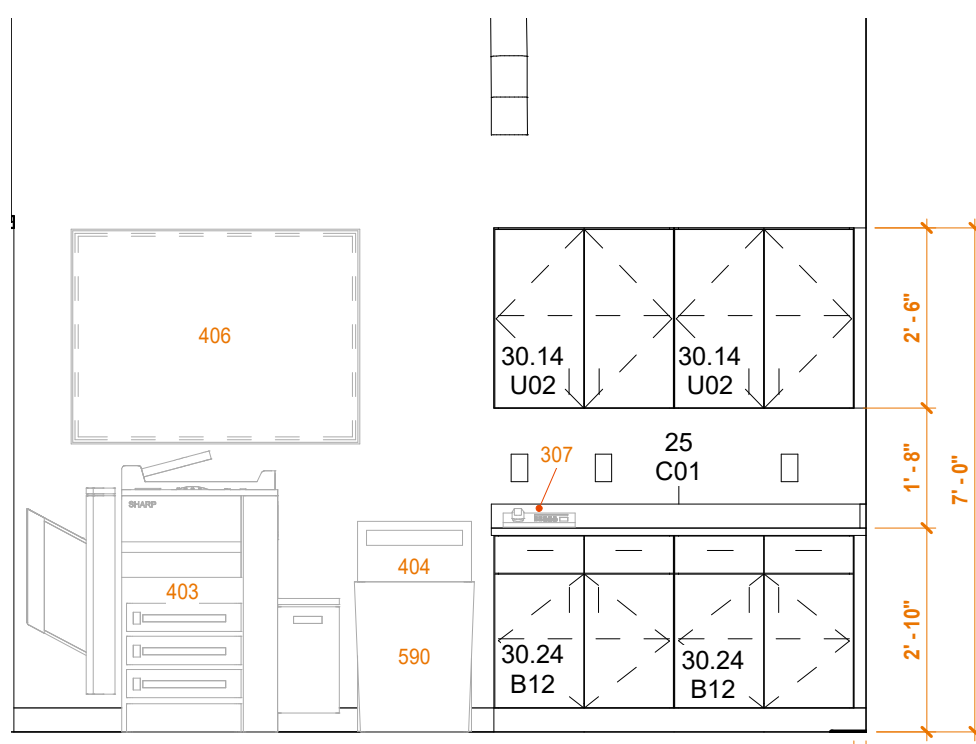
**2D WARMING KITCHEN - EAST**  
3/8" = 1'-0" REF: 5D/A111



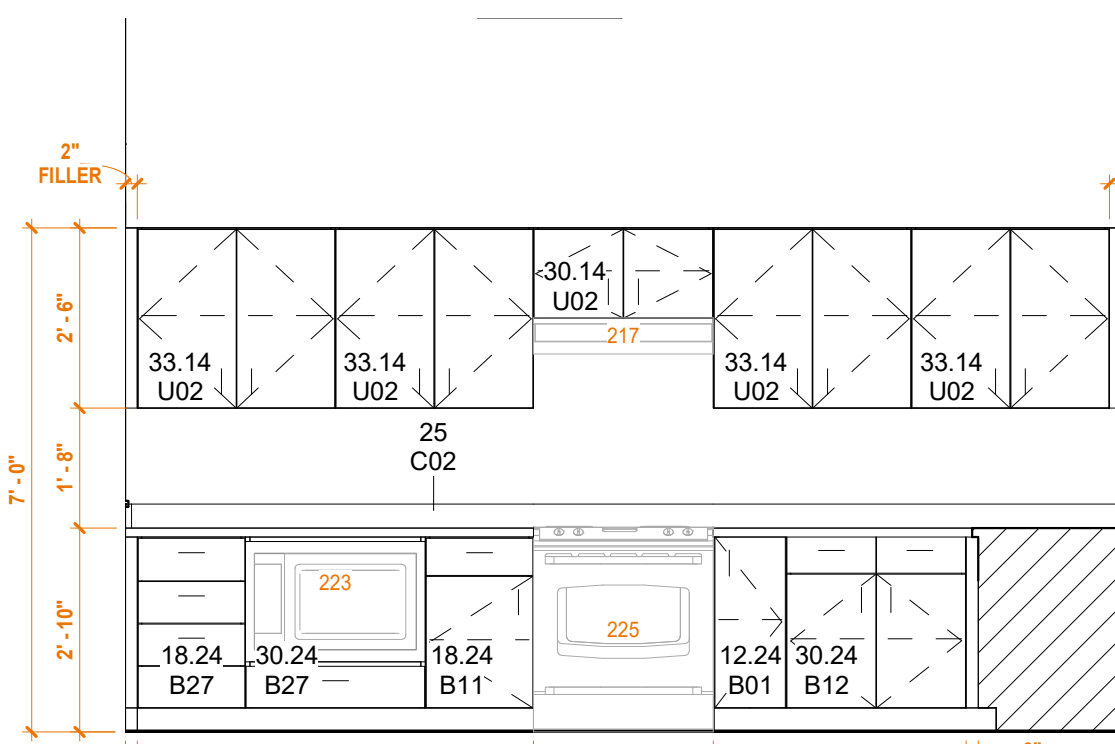
**1D WARMING KITCHEN - SOUTH**  
3/8" = 1'-0" REF: 5D/A111



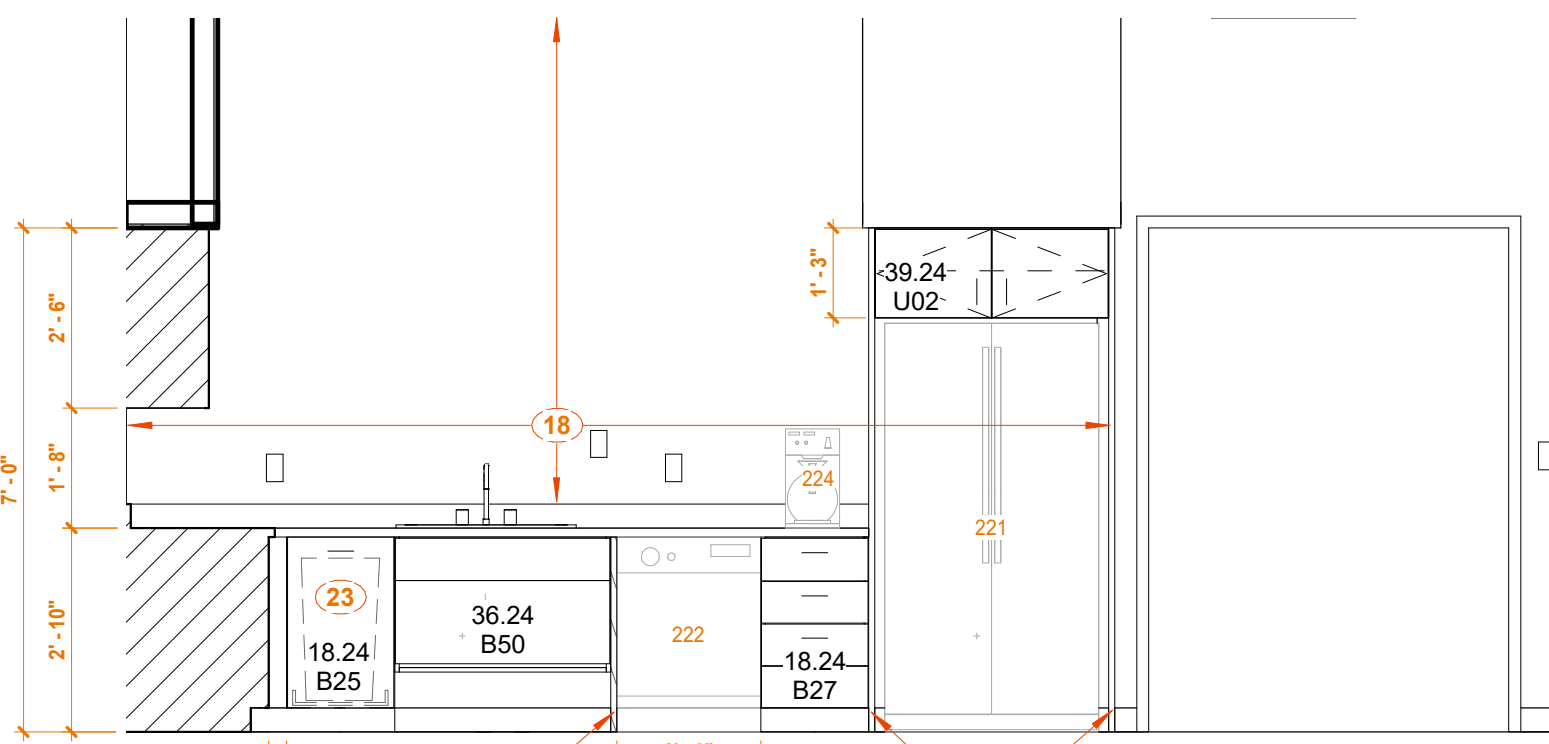
**4C PRINT/SUPPLY - SOUTH**  
3/8" = 1'-0" REF: 1A/A021



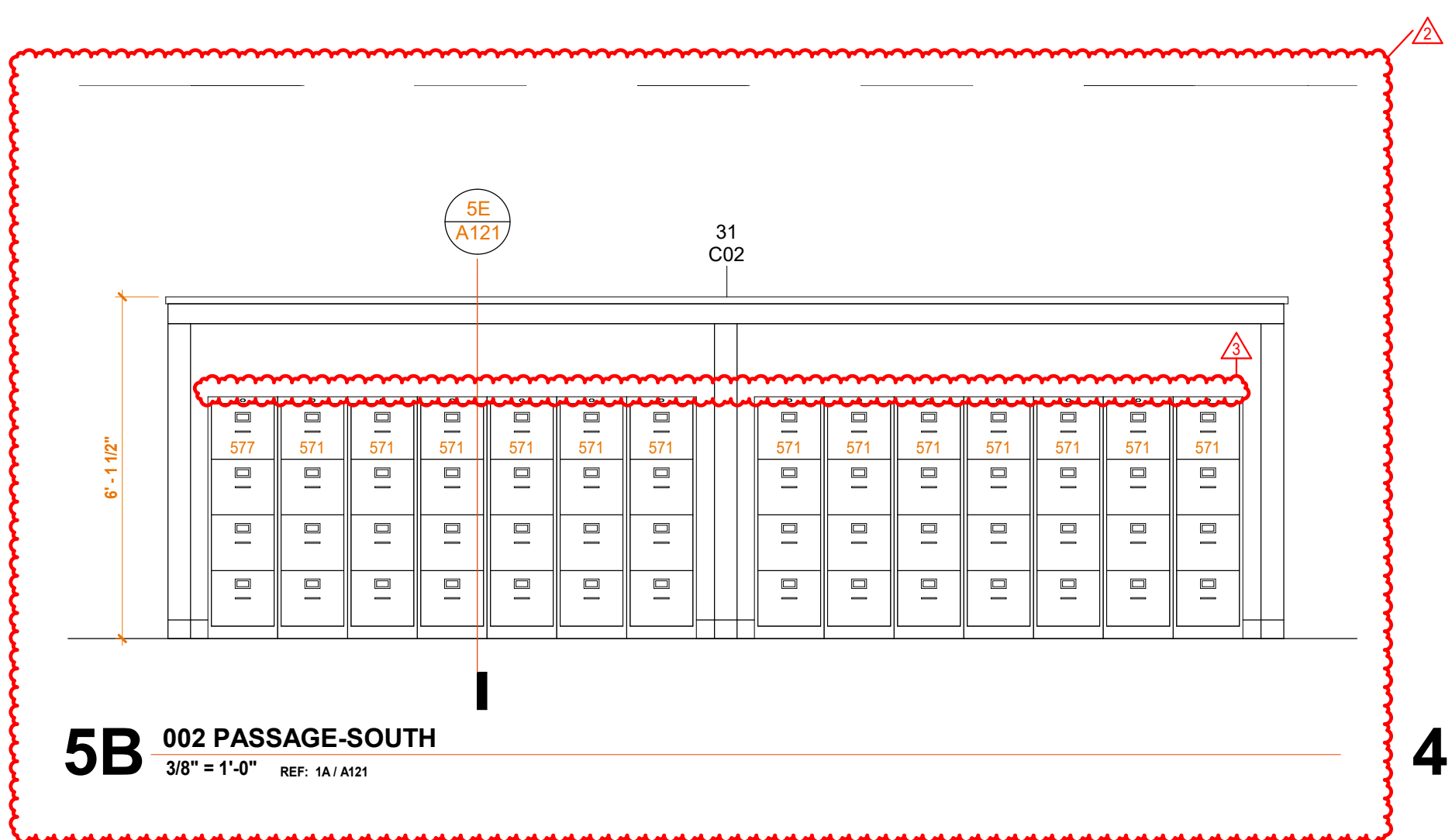
**3C PRINT/SUPPLY - NORTH**  
3/8" = 1'-0" REF: 1A/A021



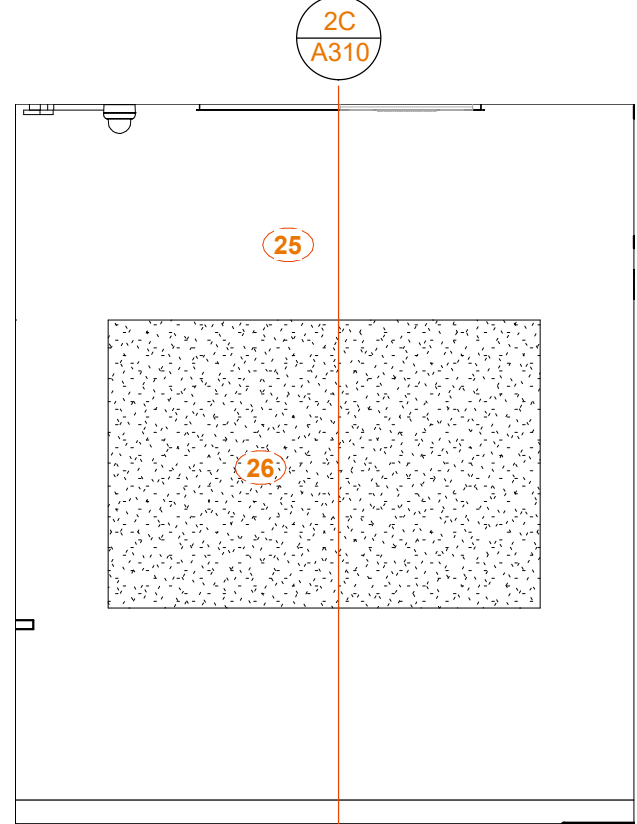
**2C STAFF BREAK - EAST**  
3/8" = 1'-0" REF: 1A/A021



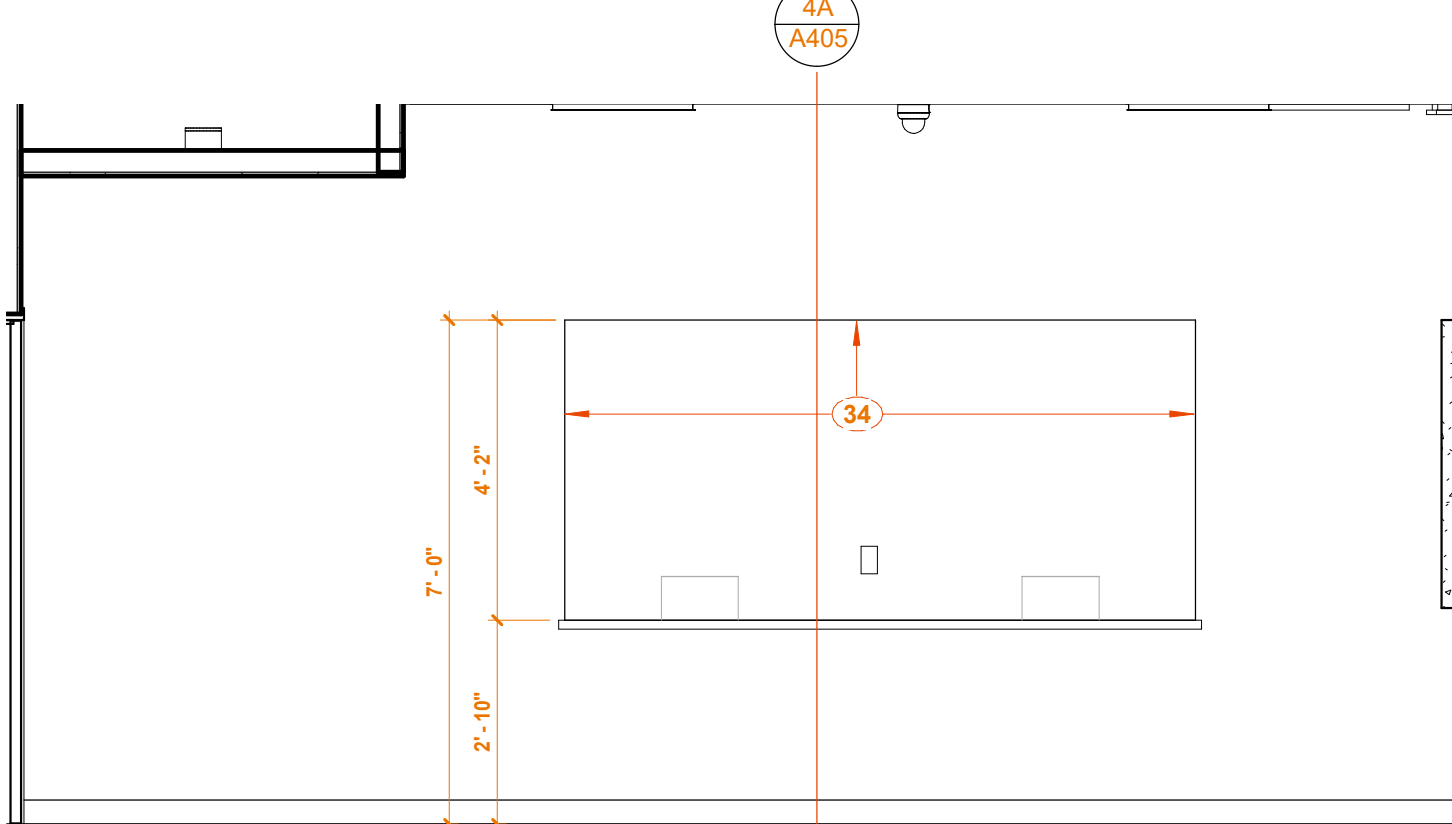
**1C STAFF BREAK - SOUTH**  
3/8" = 1'-0" REF: 1A/A021



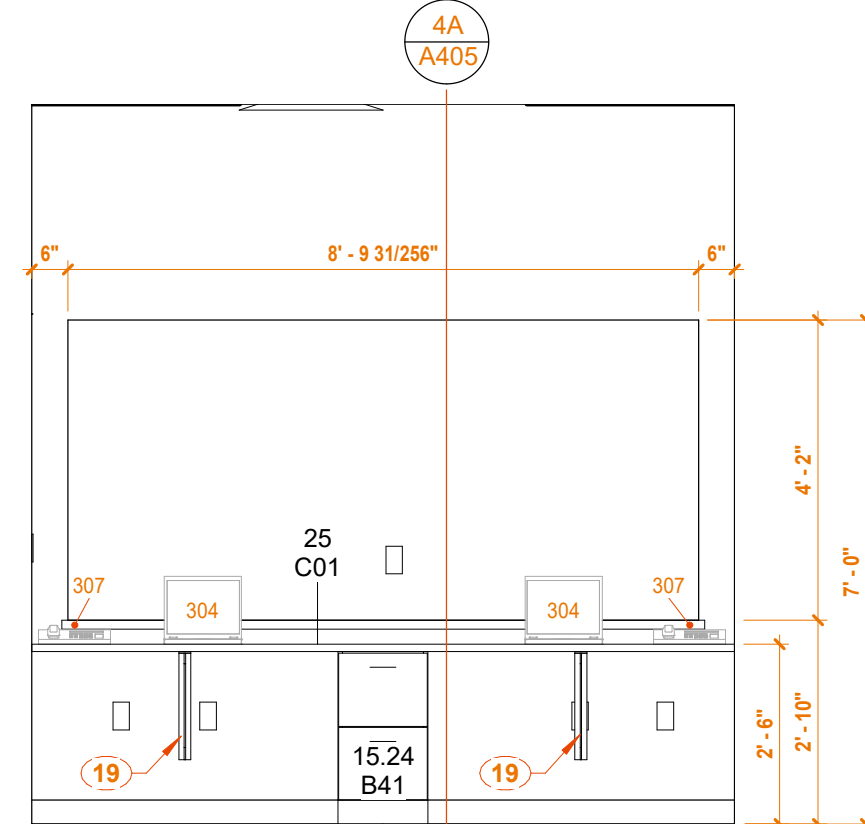
**5B 002 PASSAGE-SOUTH**  
3/8" = 1'-0" REF: 1A/A021



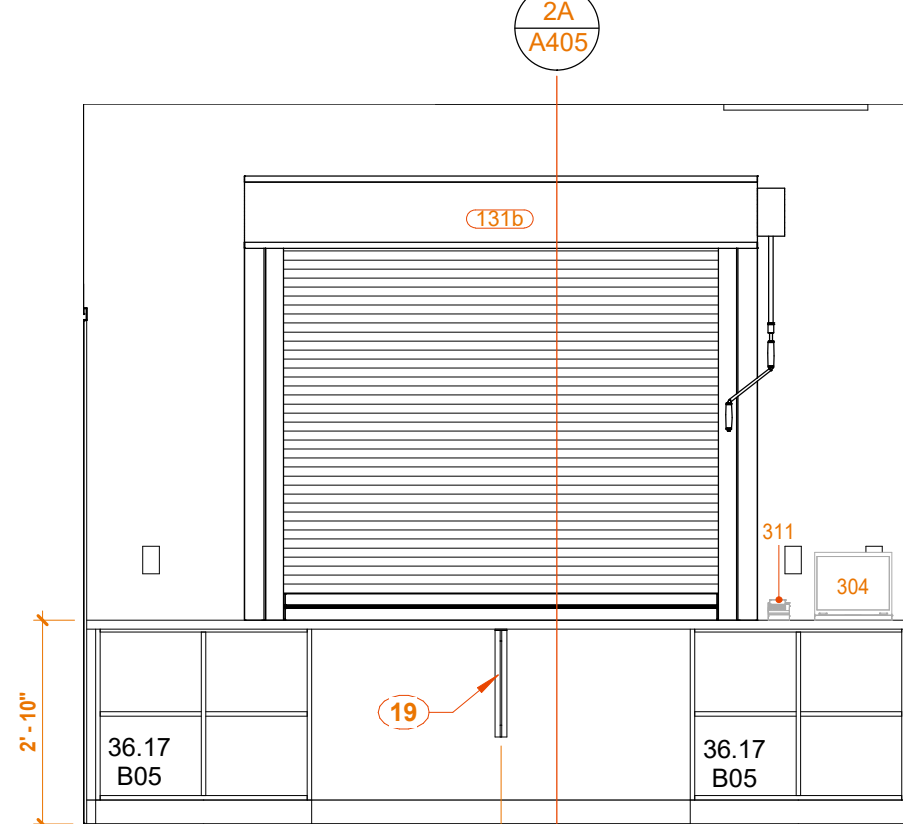
**4B HALL ENTRANCE - EAST**  
3/8" = 1'-0" REF: 1A/A021



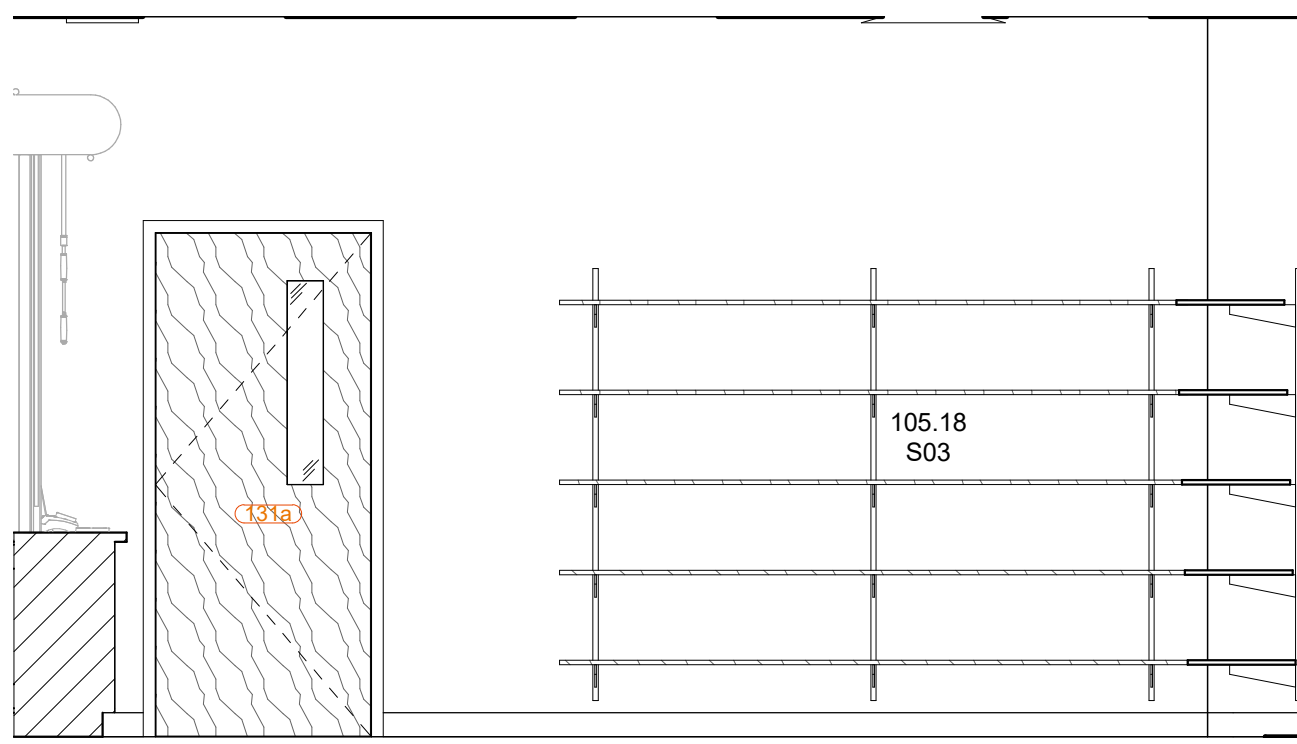
**3B UNION HALL ENTRY - NORTH**  
3/8" = 1'-0" REF: 1A/A021



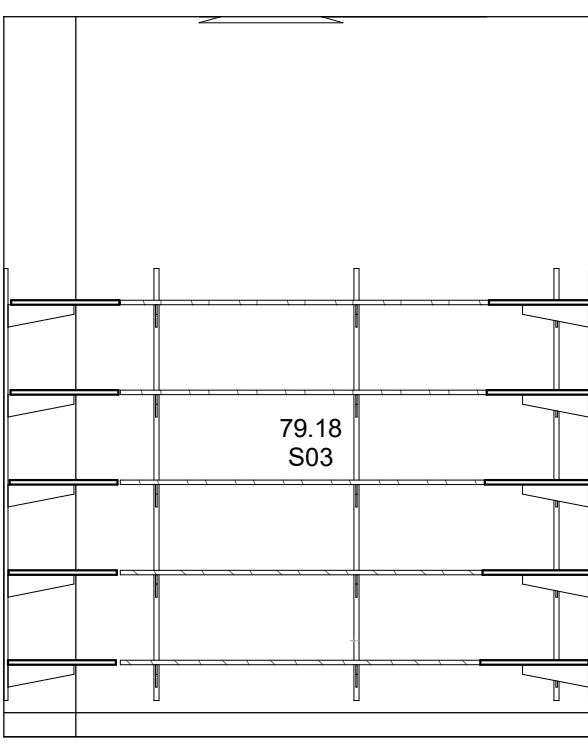
**2B CHECK-IN SOUTH**  
3/8" = 1'-0" REF: 1A/A021



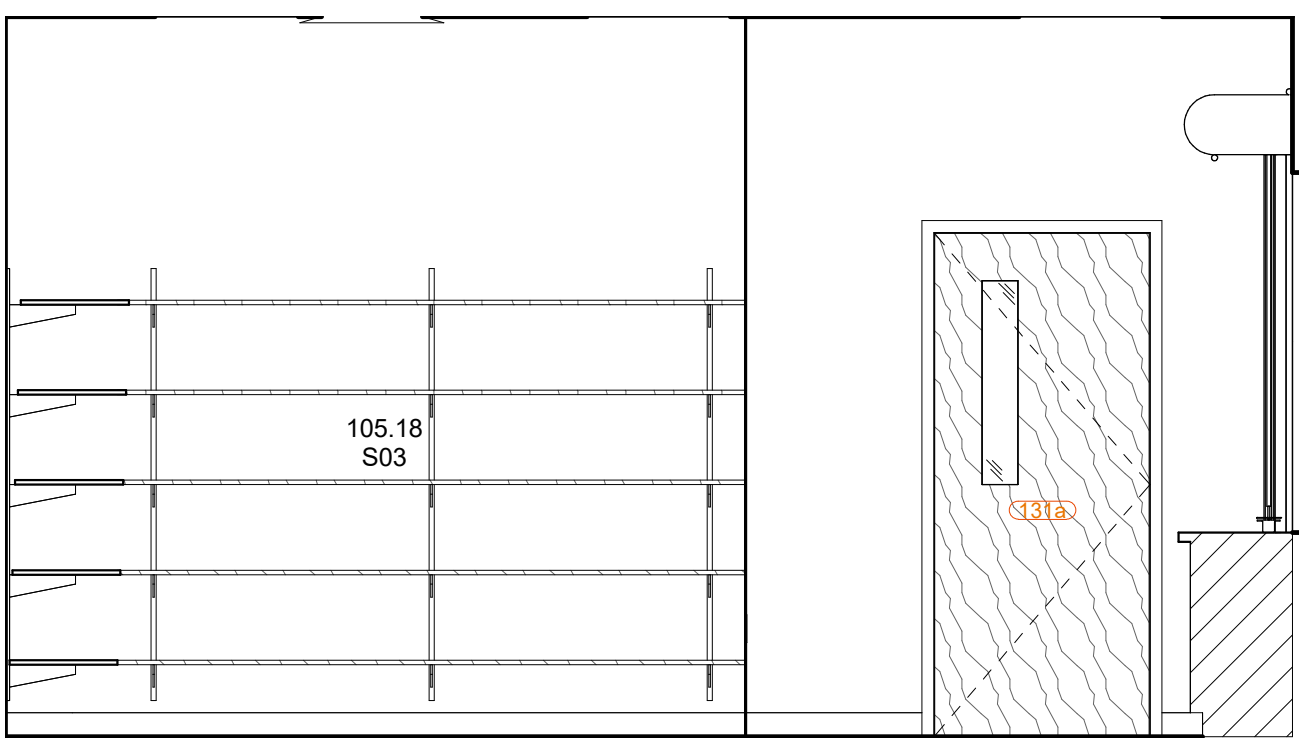
**1B MERCHANDISE - NORTH**  
3/8" = 1'-0" REF: 1A/A021



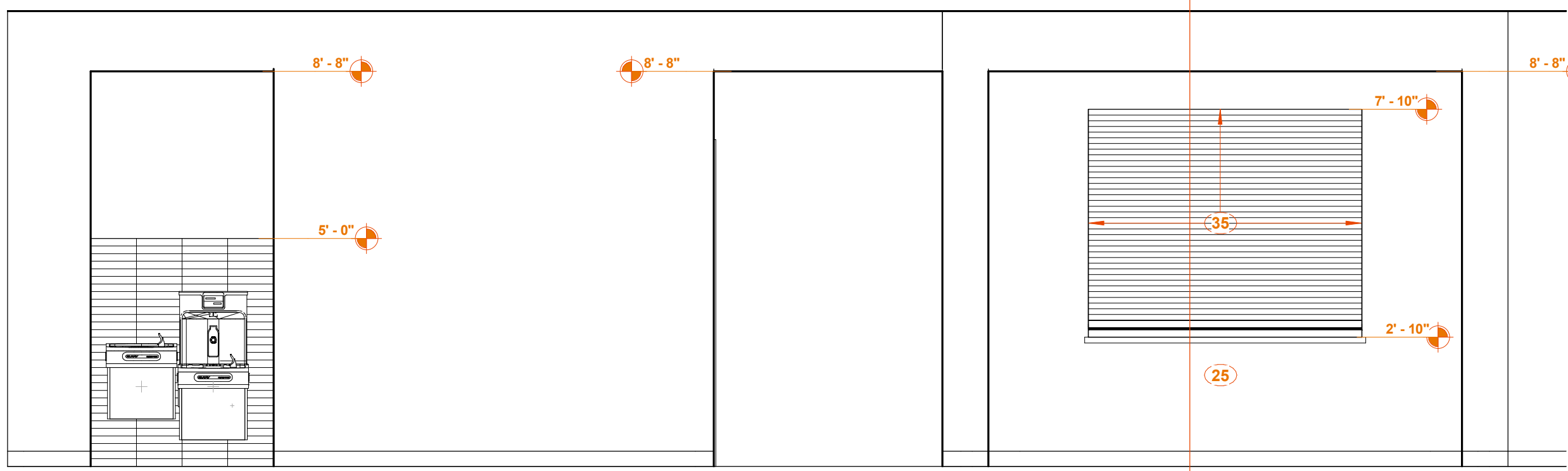
**4A MERCHANDISE - EAST**  
3/8" = 1'-0" REF: 1A/A021



**3A MERCHANDISE - SOUTH**  
3/8" = 1'-0" REF: 1A/A021



**2A MERCHANDISE - WEST**  
3/8" = 1'-0" REF: 1A/A021



**1A 003 PASSAGE - SOUTH**  
3/8" = 1'-0" REF: 1A/A021

## GENERAL NOTES: INTERIOR ELEVATIONS

- REFERENCE SHEET A451 "CASEWORK DETAILS" FOR CASEWORK TYPE LEGEND AND GENERAL CASEWORK NOTES.
- REFERENCE SHEET A131 EQUIPMENT PLANS FOR EQUIPMENT LEGEND.
- REFERENCE SHEET A153 FOR "ROOM FINISH SCHEDULE" AND "FINISH LEGEND" FOR INTERIOR FINISHES, INCLUDING CASEWORK AND COUNTERTOP FINISHES.
- PROVIDE GROMMETS IN COUNTERTOPS AT ALL WORKSTATIONS. VERIFY LOCATIONS WITH OWNER IN THE FIELD.
- REFERENCE SHEET A451 "CASEWORK DETAILS" FOR FOR TYPICAL PLASTIC LAMINATE EDGE DETAILS. PROVIDE BACK AND SIDE SPLASHES WHERE INDICATED IN THE ELEVATIONS.
- REFERENCE SHEET A451 "CASEWORK DETAILS" FOR TYPICAL SOLID SURFACE EDGE DETAILS. PROVIDE BACK AND SIDE SPLASHES WHERE INDICATED IN THE ELEVATIONS. ALL FILE TYPE DRAWERS TO RECEIVE LOCKS. COORDINATE LOCATION OF LOCKS ON OTHER CABINETS WITH OWNER.
- NOTES FOR WALL FINISHES ONLY LISTED IN ELEVATION VIEWS IF MULTIPLE FINISHES ARE USED ON A WALL TO CLARIFY LOCATIONS OF FINISHES. REFER TO ROOM FINISH SCHEDULE.
- ADDENDUM 3: REVIEW ALL DRAWINGS, DETAILS, AND NOTES FOR POST BID VE CHANGES. CHANGES HAVE BEEN CLOUDED AND TAGGED TO THE GREATEST EXTENT POSSIBLE FOR CHANGES, MODIFICATIONS, AND REDUCTIONS OF SCOPE.

## INTERIOR ELEVATION NOTES

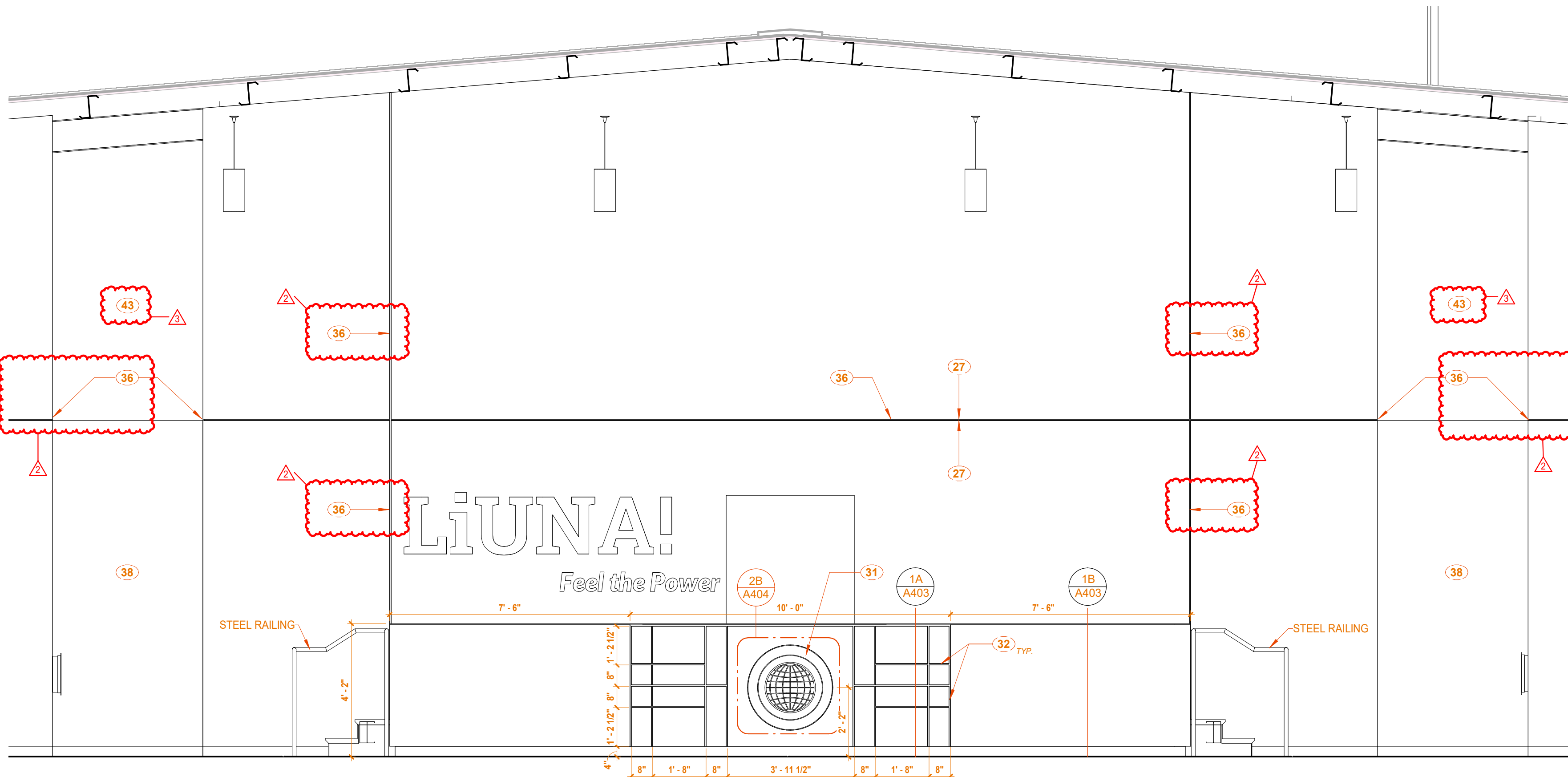
- PAINT WALL P4 BELOW PRESENTATION RAIL AND CHAIR RAIL IN THIS ROOM.
- PAINT WALL ABOVE PRESENTATION RAIL P5, DRY-ERASE PAINT.
- REFER TO 1A/A451 FOR PRESENTATION RAIL DETAIL. PAINT PRESENTATION RAIL P2.
- PROVIDE 8" HOLE IN SOLID SURFACE COUNTERTOP FOR TRASH PASS-THRU. BUILD UP EXPOSED SIDE OF HOLE TO MATCH BUILT-UP THICKNESS OF COUNTERTOP AT THE FRONT. CENTER HOLE ON CABINET BELOW.
- PAINT WALL P3.
- PAINT WALL ABOVE COUNTERTOP P1. WALL TO RECEIVE VINYL DECAL OF LIUNA KEYWORDS, TO BE PART OF SIGNAGE PACKAGE.
- WALL TO RECEIVE LIUNA MURAL (CUSTOM WALLCOVERING WC3). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
- PROVIDE 1/2" POP-LAR TRIM, PAINTED P2 AT TOP AND BOTTOM OF MURAL (CUSTOM WALLCOVERING WC3).
- PAINT TV WALL BUMP-OUT P4, INCLUDING ALL RETURNS.
- PAINT RECESSED WALL FACE P2. (PAINT WALL RETURNS P4).
- PAINT TV WALL BUMP-OUT P3, INCLUDING ALL RETURNS.
- PAINT RECESSED WALL FACE P4. (PAINT WALL RETURNS P3).
- TACKABLE FABRIC (FAB1) WRAPPED HOMASOTE BOARD. SEE DETAIL 3A/A451.
- PAINT WALL ABOVE AND BELOW TACKBOARD P4.
- INSTALL FRP1 ON WALL UP TO 4'-0" ABOVE COUNTERTOP.
- FULL HEIGHT 24" END PANEL, MATCH CABINET FINISH.
- PAINT WALL ABOVE COUNTERTOP P2; TRANSITION TO P1 AT END PANEL, P2 SHOULD BE PAINTED ON WALL BELOW BULKHEAD. BULKHEAD TO BE PAINTED P1.
- PROVIDE METAL SUPPORT BRACKET, B.O.D. RAKKS SURFACE MOUNTED EH COUNTERTOP SUPPORT BRACKET, SIZED TO FIT COUNTER DEPTH, CLEAR ANODIZED FINISH.
- PAINT WALL P2.
- WALL TO RECEIVE LIUNA "PHOTO BACKGROUND" WALLCOVERING (CUSTOM WALLCOVERING WC2). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
- PROVIDE KNAPE AND VOGT RP-465-PM HEAVY DUTY SHELF AND ROD BRACKETS, BRUSHED NICKEL, HEAVY DUTY CLOSET POLES, 015-88N, BRUSHED NICKEL. 14" D HEAVY DUTY SHELF TO BE PROVIDED BY CASEWORK SUPPLIER, PL-1 FINISH.
- PROVIDE PULL OUT SHELF AND SINGLE TRASH RECEPTACLE WITH CABINET.
- WALL TO RECEIVE WC1.
- EXISTING EXTERIOR LIMESTONE SIGN TO BE RELOCATED HERE. SIGN TO BE CLEANED AND RESTORED PRIOR TO INSTALLATION.
- PAINT WALL P4 TO BOTTOM OF REVEAL. ABOVE REVEAL, PAINT WALL P1.
- PROVIDE 1/2" SOLID SURFACE END CAP TO PODIUM WING WALLS, SS2.
- BACKLIT ACRYLIC & ALUMINUM LIUNA LOGO SIGNAGE. REFER TO A404 FOR ADDITIONAL INFORMATION.
- CAST METAL LIUNA PLAQUE. REFER TO A404 FOR ADDITIONAL INFORMATION.
- 1/2" MILLWORK REVEALS, REFER TO 1A/A403 FOR ADDITIONAL INFORMATION.
- STEEL HANDRAIL, PAINTED P4.
- PROVIDE FRY-REGLET, PROTRUDING EDGE TERMINATION, DRMPET-100, CLEAR ANODIZED FINISH, AT OUTSIDE CORNERS OF OPENING TO TERMINATE WALLCOVERING FINISH ON FACE OF WALL. REFER TO 2B/A405 FOR DETAIL.
- WRAP WALLCOVERING INTO OPENING. PROVIDE FRY-REGLET, PROTRUDING EDGE TERMINATION, DRMPET-100, CLEAR ANODIZED FINISH, AT OUTSIDE CORNERS OF BACK SIDE OF OPENING TO TERMINATE WALLCOVERING. REFER TO 2B/A405 FOR DETAIL.
- 1/2" DRYWALL REVEAL, B.O.D. FRY-REGLET DRYWALL REVEAL MOLDING, DRM-425-50, CLEAR ANODIZED FINISH. WRAP END OF WALL AND TERMINATE AT INSIDE CORNERS ON BACK SIDE OF WALL.
- DRYWALL EXPANSION JOINT: B.O.D. TRIM-TEX, 093V W/C & T INTERSECTIONS.
- PAINT GYPSUM BOARD PORTION OF WALL P4. INSULATION ABOVE TO BE PRE-FINISHED, WHITE.
- METAL BEAMS TO BE PRIMER GRAY.
- 2" EXP. INT. SIM TO BALCO 75FWGC.
- METAL TRIM - WALL CAP AND WINDOW STOOL - PAINT TO MATCH WALL COLOR.
- 20 GA MIN. X 1 1/2" STRAPPING BRACING APPLIED TO OPPOSITE SIDE OF WALL FOR RACKING RESISTANCE. PROVIDE 2 FASTENERS PER STUD.
- INSULATION, WHITE FINISH. SECONDARY STEEL, GRAY FINISH. LINER PANEL DELETED BY ADDENDUM 3 VE.
- WALL TO RECEIVE VINYL DECAL OF LIUNA EMBLEM, TO BE PART OF SIGNAGE PACKAGE. KEEP AREA CLEAR OF WALL MOUNTED EQUIPMENT.



2/11/2022 3:30:07 PM C:\Users\jmlr\Documents\Revit 2020 Local Files\01102 - LIUNA Local 120\_arcCENTRAL\_jmlr\arcdesign.us.rvt

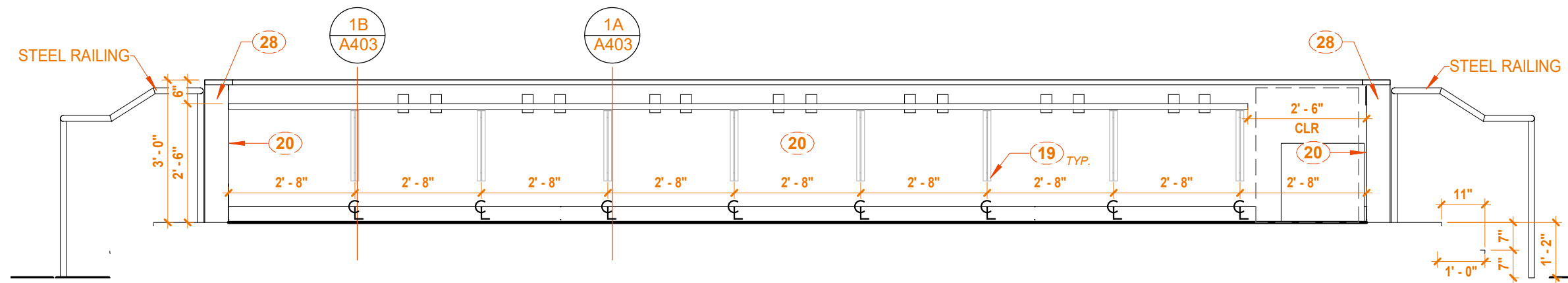
# 1D UNION HALL - WEST

3/8" = 1'-0" REF: 1A/A101



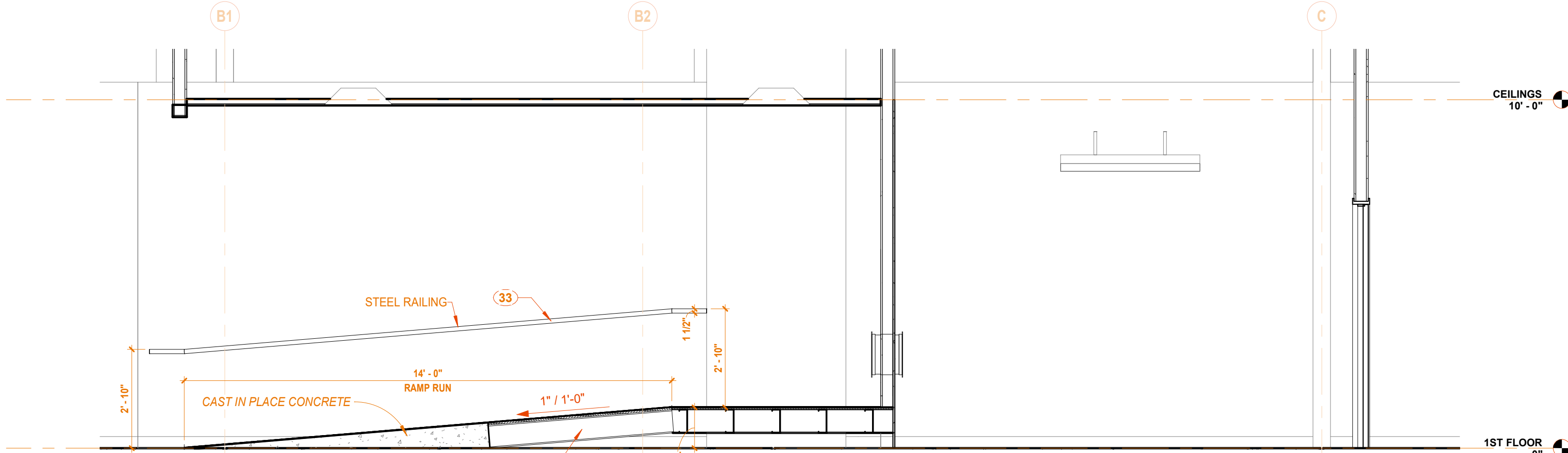
# 3D ELEVATION - PLATFORM SEATING

3/8" = 1'-0" REF: 1A/A101



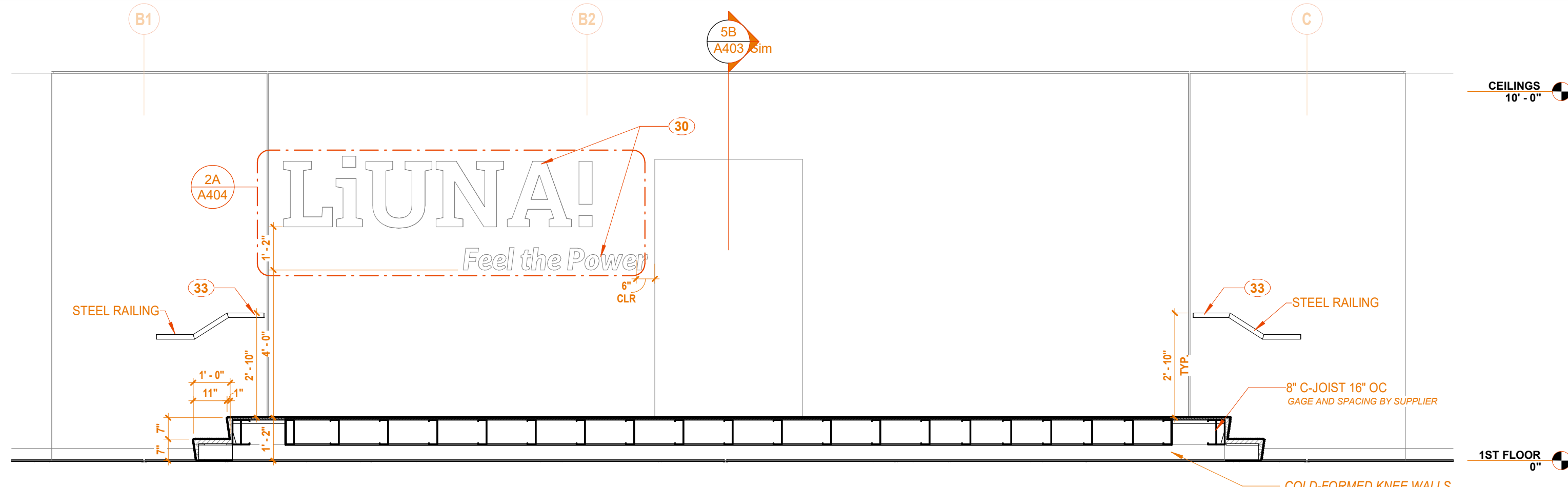
# 4D RAMP SECTION

3/8" = 1'-0" REF: 1B/A101



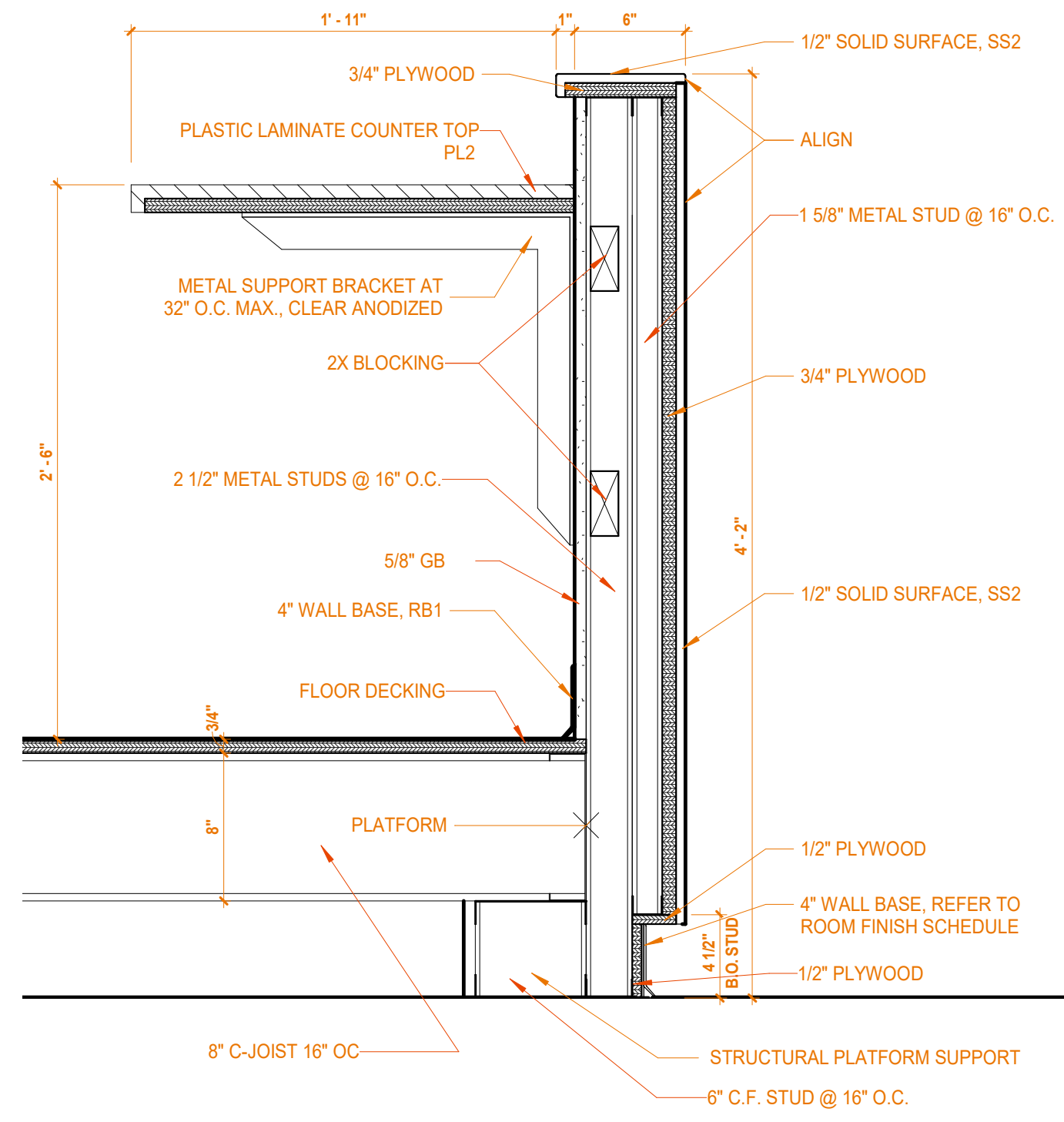
# 5D PLATFORM SECTION NORTH SOUTH

3/8" = 1'-0" REF: 1B/A101



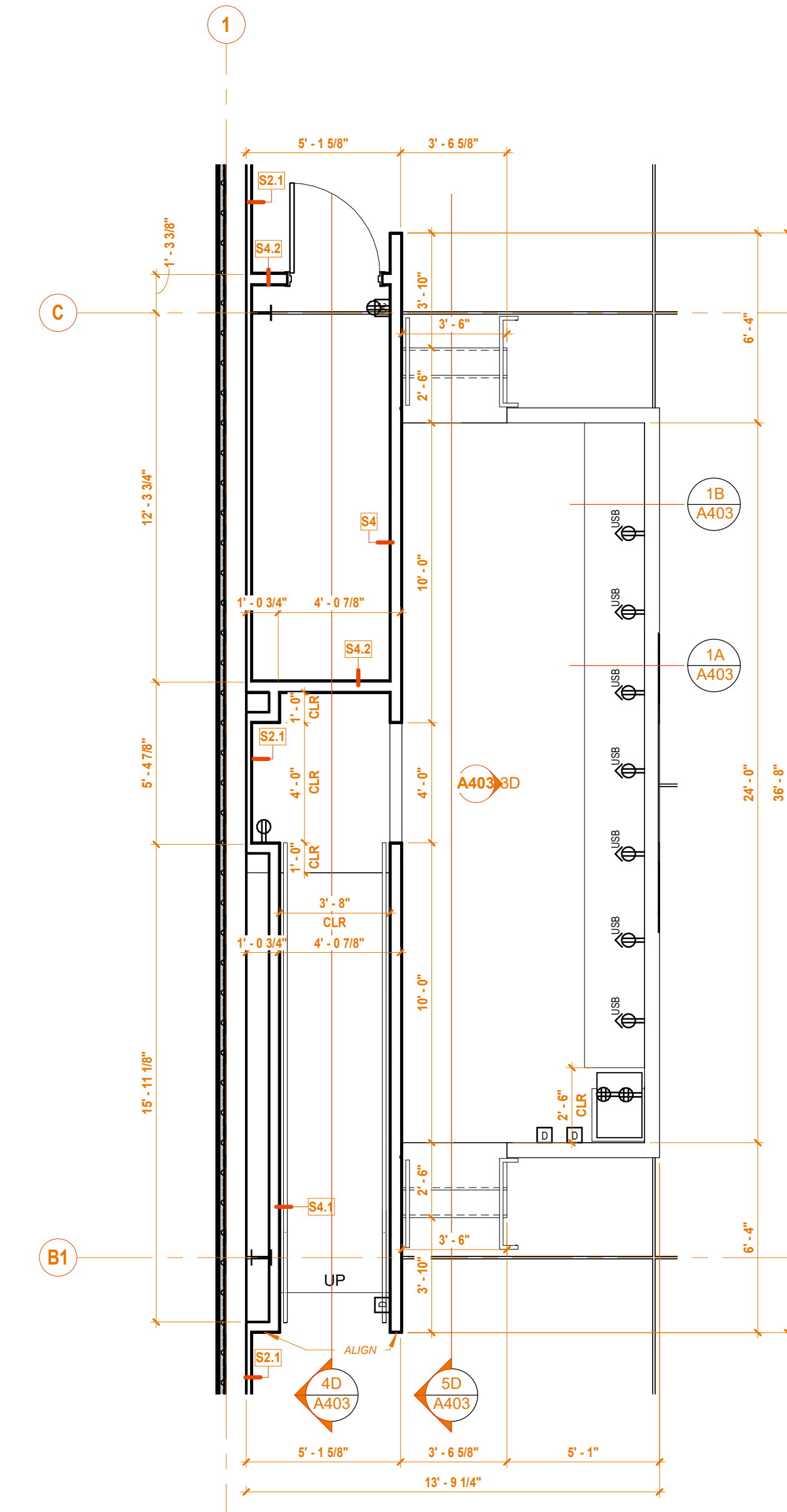
# 1B PODIUM SECTION 1

1 1/2" = 1'-0" REF: 1A/A101



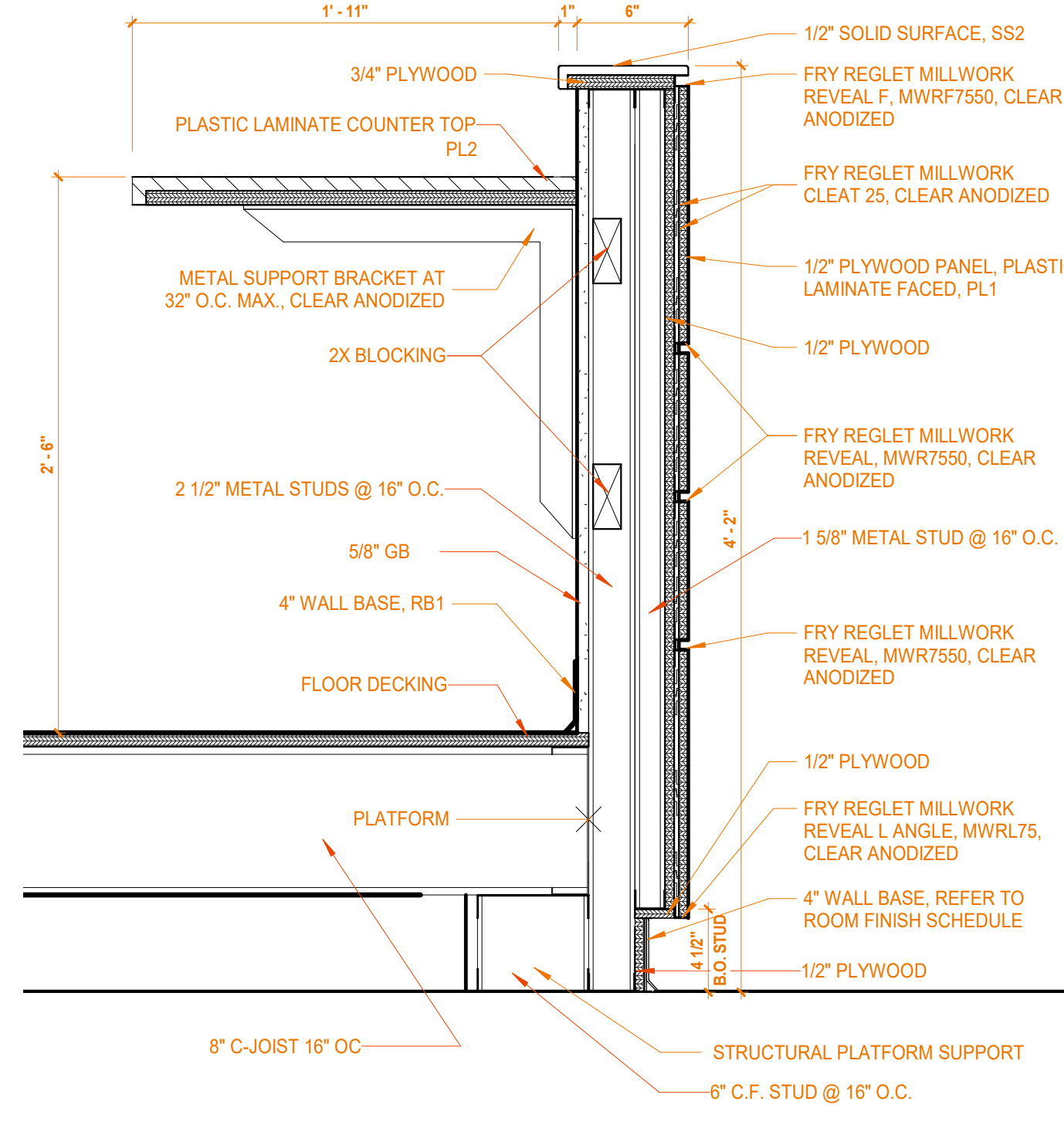
# 2B ENLARGED PODIUM PLAN

1/4" = 1'-0" REF: 1A/A101

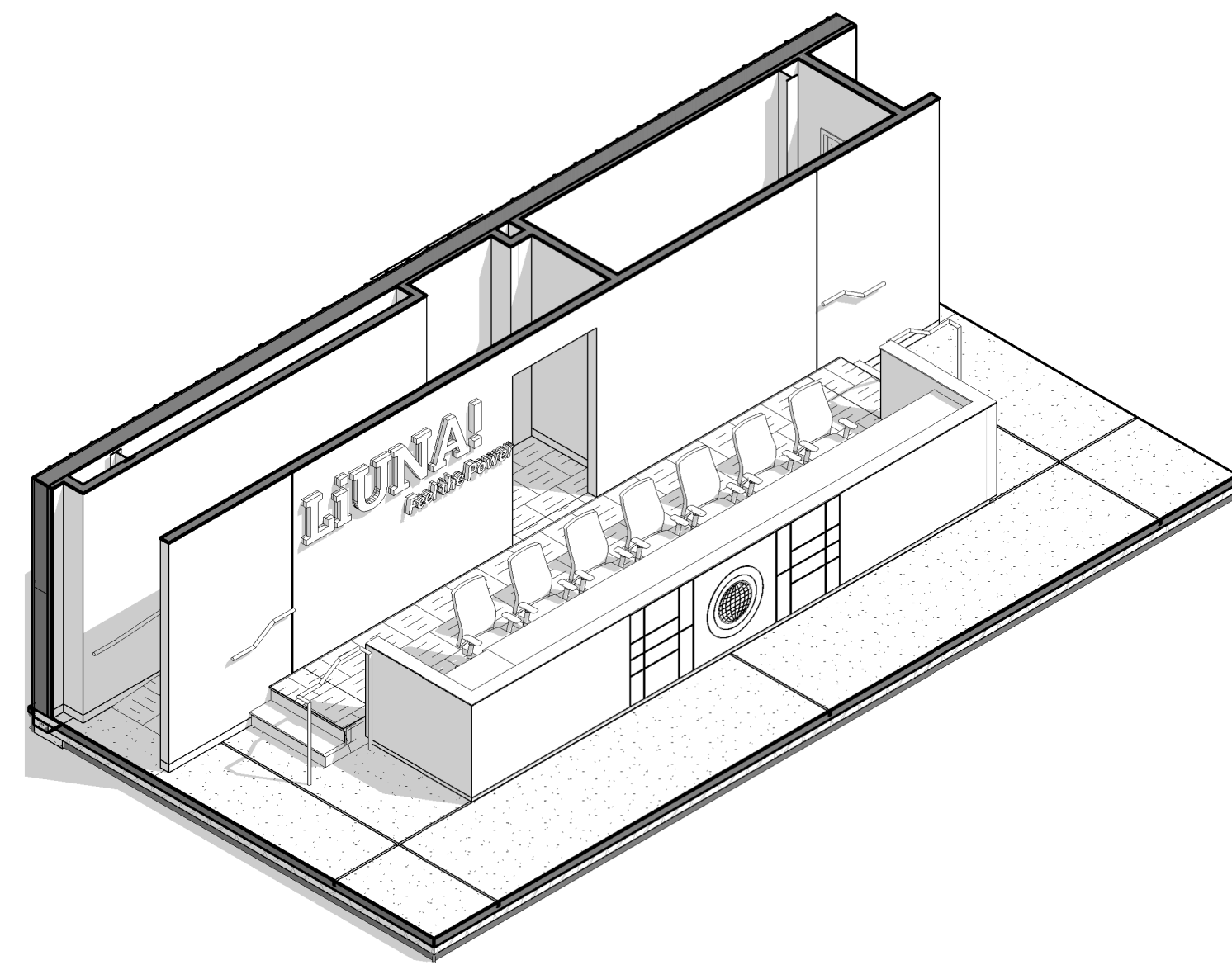


# 1A PODIUM SECTION 2

1 1/2" = 1'-0" REF: 1A/A101



# 2A PODIUM PERSPECTIVE VIEW



# KEYNOTE LEGEND

05 40 00 S8	6" C.F. STUD @ 16" O.C.
05 42 00 A1	8" C-JOIST 16" OC
05 52 13 A0	STEEL RAILING
06 10 53 A1	2X BLOCKING
06 10 53 A7	3/4" PLYWOOD
06 10 53 A8	1/2" PLYWOOD
06 16 00 A1	FLOOR DECKING
06 40 23 A6	PLASTIC LAMINATE COUNTER TOP
09 22 16 A3	1 5/8" METAL STUD @ 16" O.C.
09 22 16 B3	2 1/2" METAL STUDS @ 16" O.C.
09 29 00 D1	5/8" GB

# INTERIOR ELEVATION NOTES

- PAINT WALL P4 BELOW PRESENTATION RAIL AND CHAIR RAIL IN THIS ROOM.
- PAINT WALL ABOVE PRESENTATION RAIL P5. DRY-ERASE PAINT.
- REFER TO 1A/A451 FOR PRESENTATION RAIL DETAIL. PAINT PRESENTATION RAIL P2.
- PROVIDE 8" HOLE IN SOLID SURFACE COUNTERTOP FOR TRASH PASS-THRU. BUILD UP EXPOSED SIDE OF HOLE TO MATCH BUILT-UP THICKNESS OF COUNTERTOP AT THE FRONT. CENTER HOLE ON CABINET BELOW.
- PAINT WALL P3.
- PAINT WALL ABOVE COUNTERTOP P1. WALL TO RECEIVE VINYL DECAL OF LIUNA KEYWORDS, TO BE PART OF SIGNAGE PACKAGE.
- WALL TO RECEIVE LIUNA MURAL (CUSTOM WALLCOVERING WC3). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
- PROVIDE 1 X 2 POPLAR TRIM, PAINTED P2 AT TOP AND BOTTOM OF MURAL (CUSTOM WALLCOVERING WC3).
- PAINT TV WALL BUMP-OUT P4, INCLUDING ALL RETURNS.
- PAINT RECESSED WALL FACE P2. (PAINT WALL RETURNS P4)
- PAINT WALL BETWEEN COUNTERTOP AND UPPER CABINETS P2.
- PAINT TV WALL BUMP-OUT P3, INCLUDING ALL RETURNS.
- PAINT RECESSED WALL FACE P4. (PAINT WALL RETURNS P3)
- TACKABLE FABRIC (FAB1) WRAPPED HOMASOTE BOARD. SEE DETAIL 3A/A451
- PAINT WALL ABOVE AND BELOW TAGBOARD P4.
- INSTALL FRP1 ON WALL UP TO 4'-0" ABOVE COUNTERTOP.
- FULL HEIGHT 24"D END PANEL. MATCH CABINET FINISH.
- PAINT WALL ABOVE COUNTERTOP P2. TRANSITION TO P1 AT END PANEL. P2 SHOULD BE PAINTED ON WALL BELOW BULKHEAD. BULKHEAD TO BE PAINTED P1.
- PROVIDE METAL SUPPORT BRACKET. B.O.D. RACKS SURFACE MOUNTED EH COUNTERTOP SUPPORT BRACKET, SIZED TO FIT COUNTER DEPTH; CLEAR ANODIZED FINISH.
- PAINT WALL P2.
- WALL TO RECEIVE LIUNA "PHOTO BACKGROUND" WALLCOVERING (CUSTOM WALLCOVERING WC2). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
- PROVIDE KNAPE AND VOGT RP-0495-PM HEAVY DUTY SHELF AND ROD CABINETS, BRUSHED NICKEL. HEAVY DUTY CLOSET POLES. 0015-8BN, BRUSHED NICKEL. 14"D HEAVY DUTY SHELF TO BE PROVIDED BY CASEWORK SUPPLIER. PL-1 FINISH.
- PROVIDE PULL OUT SHELF AND SINGLE TRASH RECEPTACLE WITH CABINET.
- WALL TO RECEIVE WC1.
- EXISTING EXTERIOR LIMESTONE SIGN TO BE RELOCATED HERE. SIGN TO BE CLEANED AND RESTORED PRIOR TO INSTALLATION.
- PAINT WALL P4 TO BOTTOM OF REVEAL ABOVE REVEAL. PAINT WALL P1.
- PROVIDE 1/2" SOLID SURFACE END CAP TO PODIUM WING WALLS, SS2.
- BACKLIT ACRYLIC & ALUMINUM LIUNA LOGO SIGNAGE. REFER TO A404 FOR ADDITIONAL INFORMATION.
- CAST METAL LIUNA PLAQUE. REFER TO A404 FOR ADDITIONAL INFORMATION.
- 1/2" MILLWORK REVEALS. REFER TO 1A/A403 FOR ADDITIONAL INFORMATION.
- STEEL HANDRAIL. PAINTED P4.
- PROVIDE FRY-REGLET. PROTRUDING EDGE TERMINATION. DRMPET-100, CLEAR ANODIZED FINISH. AT OUTSIDE CORNERS OF OPENING TO TERMINATE WALLCOVERING FINISH ON FACE OF WALL. REFER TO 2B/A405 FOR DETAIL.
- WRAP WALLCOVERING INTO OPENINGS. PROVIDE FRY-REGLET. PROTRUDING EDGE TERMINATION. DRMPET-100, CLEAR ANODIZED FINISH. AT OUTSIDE CORNERS OF BACK SIDE OF OPENING TO TERMINATE WALLCOVERING. REFER TO 3B/A405 FOR DETAIL.
- 1/2" DRYWALL REVEAL. B.O.D. FRY-REGLET DRYWALL REVEAL. MOLDING. DRM-625-50, CLEAR ANODIZED FINISH. WRAP END OF WALL AND TERMINATE AT INSIDE CORNERS ON BACK SIDE OF WALL.
- DRYWALL EXPANSION JOINT. B.O.D. TRIM-TEX, 093V W/ C & T INTERSECTIONS.
- PAINT GYPSUM BOARD PORTION OF WALL P4. INSULATION ABOVE TO BE PRE-FINISHED, WHITE.
- METAL BEAMS TO BE PRIMER GRAY.
- 2" EXP JNT SIM TO BALCO 75FWGC.
- METAL TRIM - WALL CAP AND WINDOW STOOL - PAINT TO MATCH WALL COLOR.
- 20 GA MIN. X 1 1/2" STRAPPING BRACING APPLIED TO OPPOSITE SIDE OF WALL FOR RACKING RESISTANCE. PROVIDE 2 FASTENERS PER STUD.
- INSULATION, WHITE FINISH. SECONDARY STEEL. GRAY FINISH. LINER PANEL DELETED BY ADDENDUM 3 VE.
- WALL TO RECEIVE VINYL DECAL OF LIUNA EMBLEM, TO BE PART OF SIGNAGE PACKAGE. KEEP AREA CLEAR OF WALL MOUNTED EQUIPMENT.



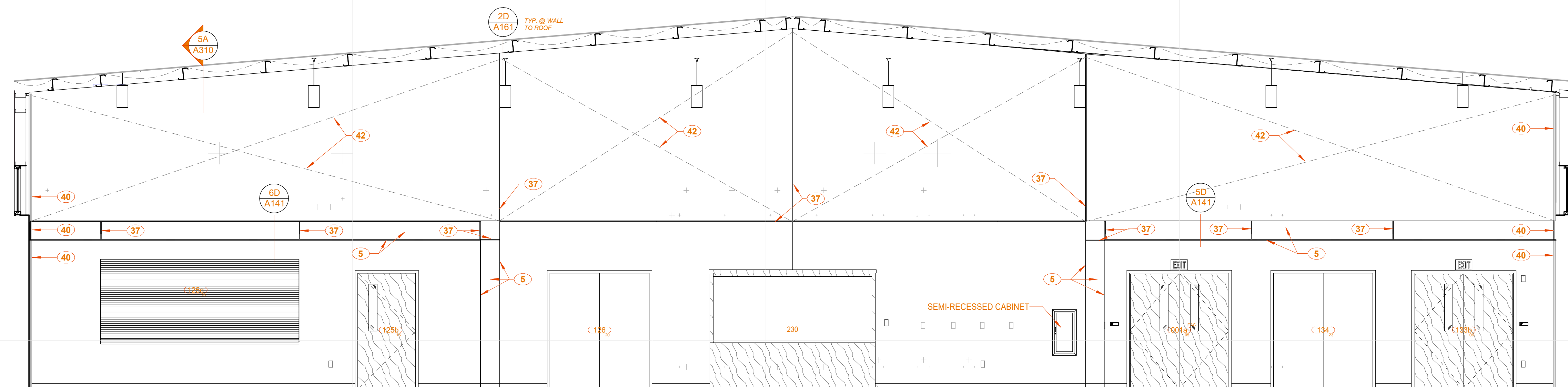


**GENERAL NOTES: INTERIOR ELEVATIONS**

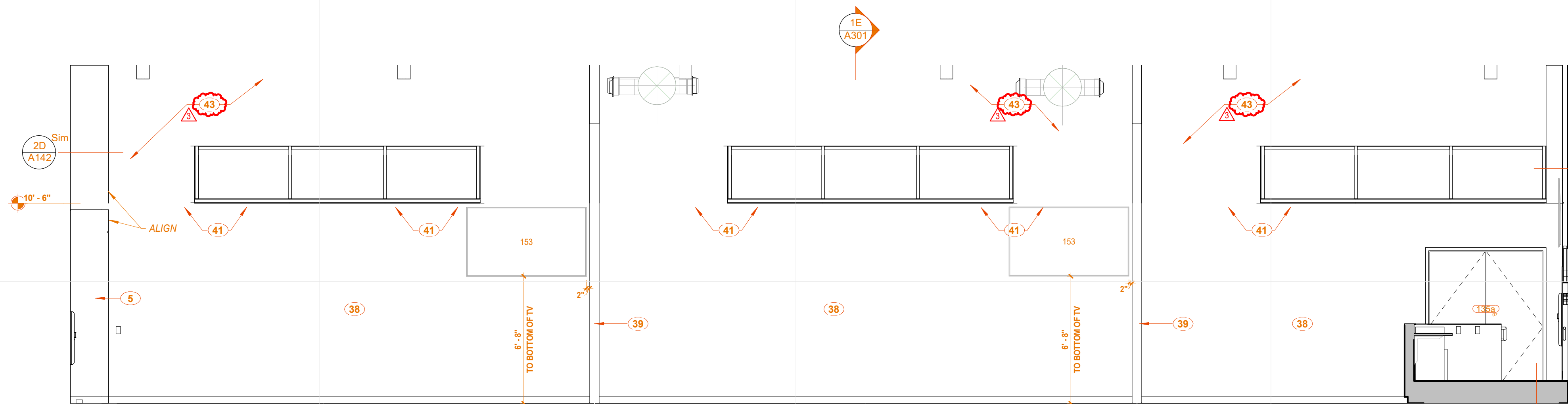
- |   |  |
|---|--|
| A | REFERENCE SHEET A451 "CASEWORK DETAILS" FOR CASEWORK TYPE LEGEND AND GENERAL CASEWORK NOTES.   |
| B | REFERENCE SHEET A131 "EQUIPMENT PLANS FOR EQUIPMENT LEGEND."   |
| C | REFERENCE SHEET A131 "ROOM FINISH SCHEDULE" AND "FINISH LEGEND" FOR INTERIOR FINISHES, INCLUDING CASEWORK AND COUNTERTOP FINISHES.   |
| D | PROVIDE GROMMETS IN COUNTERTOPS AT ALL WORKSTATIONS. VERIFY LOCATIONS WITH OWNER IN THE FIELD.   |
| E | REFERENCE SHEET A451 "CASEWORK DETAILS" FOR TOP TYPICAL PLASTIC LAMINATE EDGE DETAILS. PROVIDE BACK AND SIDE SPLASHES WHERE INDICATED IN THE ELEVATIONS.                                     |
| F | REFERENCE SHEET A451 "CASEWORK DETAILS" FOR TYPICAL SOLID SURFACE EDGE DETAILS. PROVIDE BACK AND SIDE SPLASHES WHERE INDICATED IN THE ELEVATIONS.  |
| G | COORDINATE DRAWING AND CASEWORK LOCKS. COORDINATE LOCATION OF LOCKS ON OTHER CABINETS WITH OWNER.  |
| H | NOTES FOR WALL FINISHES ONLY LISTED IN ELEVATION VIEWS IF MULTIPLE FINISHES ARE TO BE USED TO WALL. CLARIFY LOCATIONS OF FINISHES. REFER TO ROOM FINISH SCHEDULE.                            |
| I | ADDENDUM 3: REVIEW ALL DRAWINGS, DETAILS, AND NOTES FOR POST BID CHANGES. THERE HAVE BEEN NO CHANGES TO DATE. THE LATEST STATE POSSIBLE FOR CHANGES, MODIFICATIONS, AND REDUCTIONS OF SCOPE. |

## INTERIOR ELEVATION NOTES

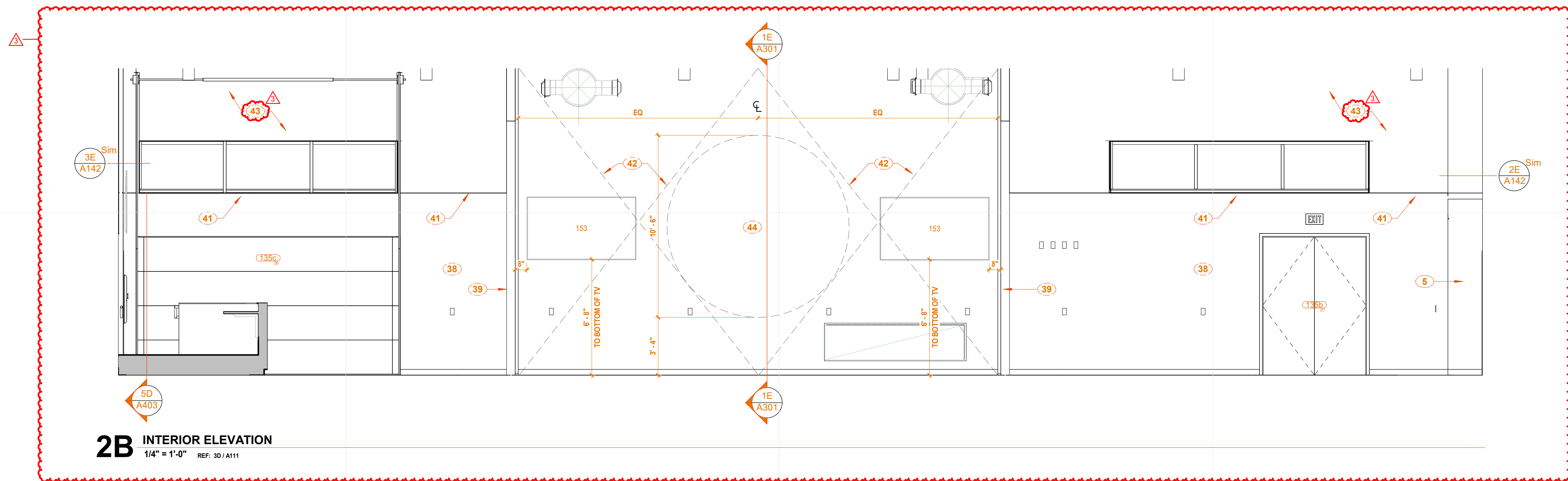
1. PAINT WALL P4 BELOW PRESENTATION RAIL P5. CHAIR RAIL IN THIS ROOM.
2. PAINT WALL ABOVE PRESENTATION RAIL P5. DRIVE-AREE PAINT.
3. REFER TO 1A/461 FOR PRESENTATION RAIL DETAIL. PAINT PRESENTATION RAIL P2.
4. PROVIDE 1/2" HOLE IN SOLID SURFACE END CAP TO ALLOW FOR TRASH PASS-THRU BUILD UP.
5. EXPOSED SIDE OF HOLE TO MATCH BUILD-UP THICKNESS OF COUNTERTOP AT THE FRONT CENTER HOLE ON CABINET BELOW.
6. PAINT WALL P1.
7. PAINT WALL ABOVE COUNTERTOP P1. WALL TO RECEIVE VINYL DECAL OF LUINA KEYWORDS. TO BE PART OF SIGNAGE PACKAGE.
8. WALL TO RECEIVE LUINA MURAL. (CUSTOM WALLCOVERING WC3). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
9. PROVIDE 1 X 2 POPLAR TRIM, PAINTED P2. AT TOP AND BOTTOM OF MURAL (CUSTOM WALLCOVERING WC3).
10. PAINT TV WALL BUMP-OUT P4, INCLUDING ALL RETURNS.
11. PAINT RECESSED WALL FACE P2. (PAINT WALL RETURNS P4).
12. PAINT WALL BETWEEN COUNTERTOP AND UPPER CABINETS P1.
13. PAINT TV WALL BUMP-OUT P3, INCLUDING ALL RETURNS.
14. PAINT RECESSED WALL FACE P4. (PAINT WALL RETURNS P3).
15. TACKABLE FABRIC (FAB1) WRAPPED HOMASOTE BOARD. SEE DETAIL 3A/461.
16. PAINT WALL ABOVE AND BELOW TACKABLE FABRIC P1.
17. INSTALL FRP1 ON WALL UP TO 4'-0" ABOVE COUNTERTOP.
18. FULL HEIGHT 24" END PANEL, MATCH CABINET FINISH.
19. PAINT WALL ABOVE AND BELOW COUNTERTOP P2. TRANSITION TO P1 AT END PANEL, P2 SHOULD BE MATCHED TO WALL BELOW AND ABOVE TACKABLE FABRIC P1.
20. PROVIDE METAL SUPPORT BRACKET, 8.0 D. RAKKS SURFACE MOUNTED ENH SUPPORT BRACKET, SIZED TO FIT COUNTER DEPTH; CLEAR ANODIZED FINISH.
21. PAINT WALL P2.
22. PAINT WALL RECIIVE LUINA "PHOTO BACKGROUND" WALLCOVERING (CUSTOM WALLCOVERING WC3). KEEP AREA CLEAR OF ANY WALL MOUNTED DEVICES OR EQUIPMENT.
23. PROVIDE KNAUF AND VOGT R9-049S-MV 3/8" HEAVY SHELF AND R0 DROCKETS, BRUSHED NICKEL. KNAUF VOGT CLOSET PLOES, 10X-48U, BRUSHED NICKEL. 14" D HEAVY DUTY, BRUSHED NICKEL. PROVIDE 2" CASTER W/ CASTERS PER STD.
24. PROVIDE PULL OUT SHELF AND SINGLE TRASH RECEPTACLE WITH CABINET.
25. WALL TO RECEIVE V1.
26. EXISTING EXTERIOR LIMESTONE SIGN TO BE RELOCATED HERE. SIGN TO BE CLEANED AND RESTORED PRIOR TO INSTALLATION.
27. PAINT WALL P4 TO BOTTOM OF REVEAL. ABOVE REVEAL, PAINT WALL P1.
28. 1/2" SOLID SURFACE END CAP TO PODIUM WING WALLS, SS2.
29. BACKLIT ACRYLIC & ALUMINUM LUINA SIGNAGE. REFER TO A404 FOR ADDITIONAL INFORMATION.
30. CAST METAL LUINA PLAQUE. REFER TO A404 FOR ADDITIONAL INFORMATION.
31. 1/2" WALL WORK REVEALS REFER TO 1A/1403 FOR ADDITIONAL INFORMATION.
32. STEEL HANDRAIL, PAINTED P1.
33. PROVIDE FRV-FRILET, PROTRUDING EDGE TERMINATION, DRIMPET-100, CLEAR ANODIZED FINISH. AT OUTSIDE CORNERS OF OPENING TO TERMINATE FRV-FRILET ON FACE OF WALL. REFER TO 2B/4605 FOR DETAIL.
34. WRAP WALL COVERINGS INTO OPENING. PROVIDE FRV-FRILET, PROTRUDING EDGE TERMINATION, DRIMPET-100, CLEAR ANODIZED FINISH. AT OUTSIDE CORNERS OF BACK OF OPENING TO TERMINATE WALLCOVERING. REFER TO 3B/4605 FOR DETAIL.
35. 1/2" DRYPWALL, 8.0 D. FRV-FRILET DRYWALL REVEAL MOLDING, DIRM-625-60, CLEAR ANODIZED FINISH. WRAP END OF WALL AND TERMINATE AT INSIDE CORNERS ON BACK SIDE OF WALL.
36. DRYPWALL EXPANSION JOINT. 8.0 D. TRIM TEX. W/VC AT T-JUNCTIONS.
37. PAINT Gypsum BOARD PORTION OF WALL P4. INSULATION ABOVE TO BE PRE-FINISHED WHITE.
38. METAL BEAMS TO BE PRIMER GRAY.
39. 2" EXP. INT. SIM TO BALCO 75/WC.
40. METAL TRIM - WALC CAP AND WINDOW STOOL - PAINT TO MATCH WALL COLOR.
41. 20 GA. MIN. 1 X 1/2" STRAPPING BRACKETS APPLIED TO OPPOSITE SIDE OF WALL FOR RACKING RESISTANCE. PROVIDE 2" CASTER PER STD.
42. INSISTION WITH FINISH SECONDARY STEEL. GRAY FINISH (LWR PANEL DELETED).
43. ADDENDUM 3 VE.
44. WALL TO RECEIVE VINYL DECAL OF LUINA MURAL. TO BE PART OF SIGNAGE PACKAGE.



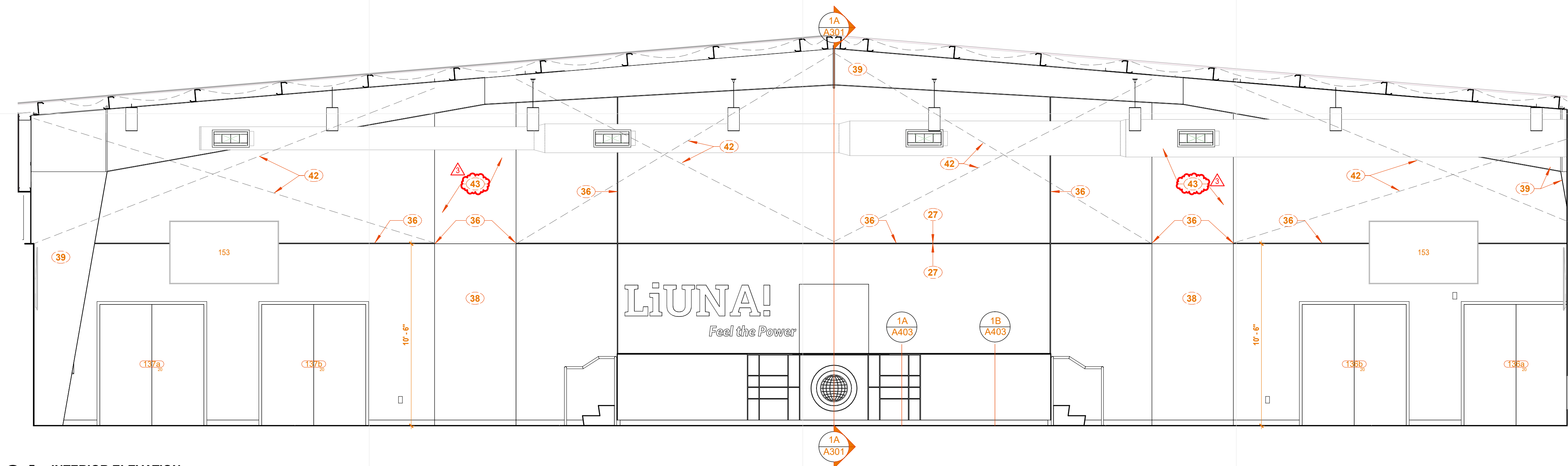
## 2D INTERIOR ELEVATION



**2C** INTERIOR ELEVATION  
1/4" = 1'-0" REF: 3D / A111

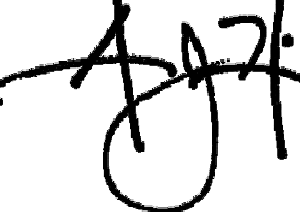


**2B** INTERIOR ELEVATION  
1/4" = 1'-0" REF: 3D / A111



## 2A INTERIOR ELEVATION





5430 LAFAYETTE RD.

PERMIT SET

3 02.11.2022 Addendum 3: Post Bid VE

## INTERIOR SIGNAGE DETAILS

A404

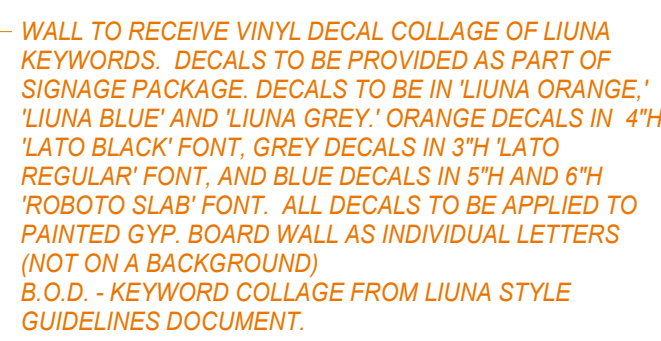
**SCHEDULE NOTES: (S) SIGNAGE SCHEDULE**

A. SIGNAGE APPEARING IN THIS SCHEDULE IS INCLUDED IN THE PROJECT UNLESS NOTED OTHERWISE.

B. REFERENCE INTERIOR AND EXTERIOR FLOOR PLANS AND ELEVATIONS FOR SIGNAGE INCLUDED IN THIS SCHEDULE.

Sign Type: "C" Standard Room ID

SIGN TYPE A



KEEP WALL AREA INSIDE DOTTED LINE CLEAR OF ALL WALL MOUNTED DEVICES. WALL TO RECEIVE VINYL DECAL OF LIUNA LOCAL 120 LOGO. DECAL TO BE PROVIDED AS PART OF SIGNAGE PACKAGE.  
B.O.D. - LOGO FROM LIUNA LOCAL 120 WEBSITE.

**1C** 003 PASSAGE - EAST  
3/8" = 1'-0" REF: 1A / A121



HEIGHT: 7"  
OVERALL DEPTH: 3"  
LETTER MATERIAL: ALUMINUM  
FINISH: CLEAR ANODIZED  
BACKLIGHTING: 1" FROSTED ACRYLIC STRIP  
AT BASE OF LETTERS. LED LOW-VOLTAGE  
LIGHTING INSIDE SIGN.  
LIGHTING COLOR: 3000K  
\*USE ILUMA-APPROVED LOGO AS BOD

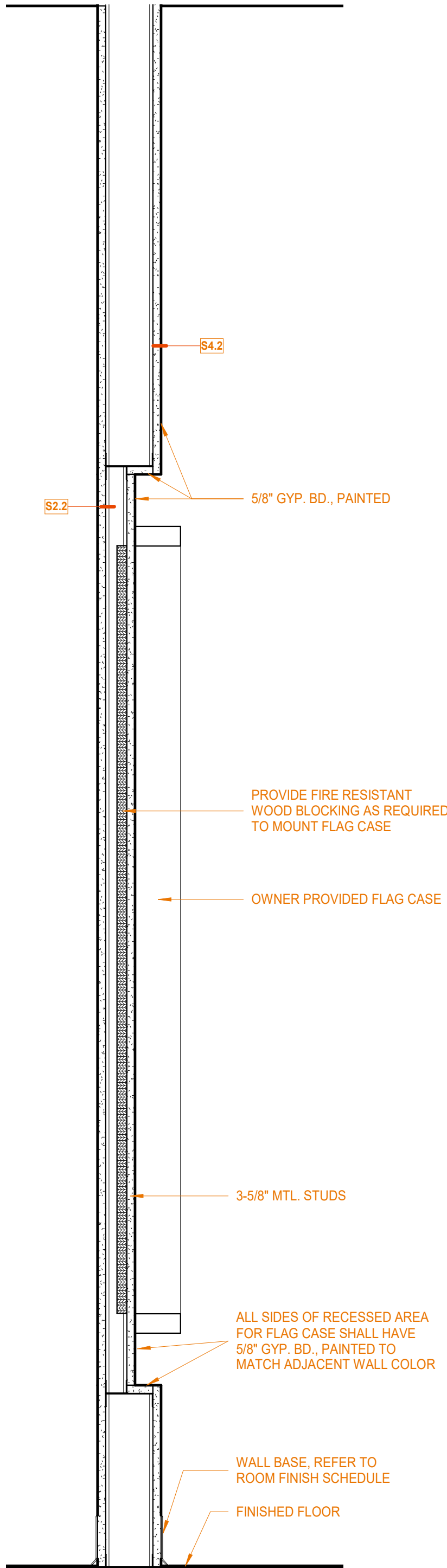
- HOLO-LIT  
DIMENSIONAL  
LETTERING

### 1A PODIUM SIGNAGE PERSPECTIVE

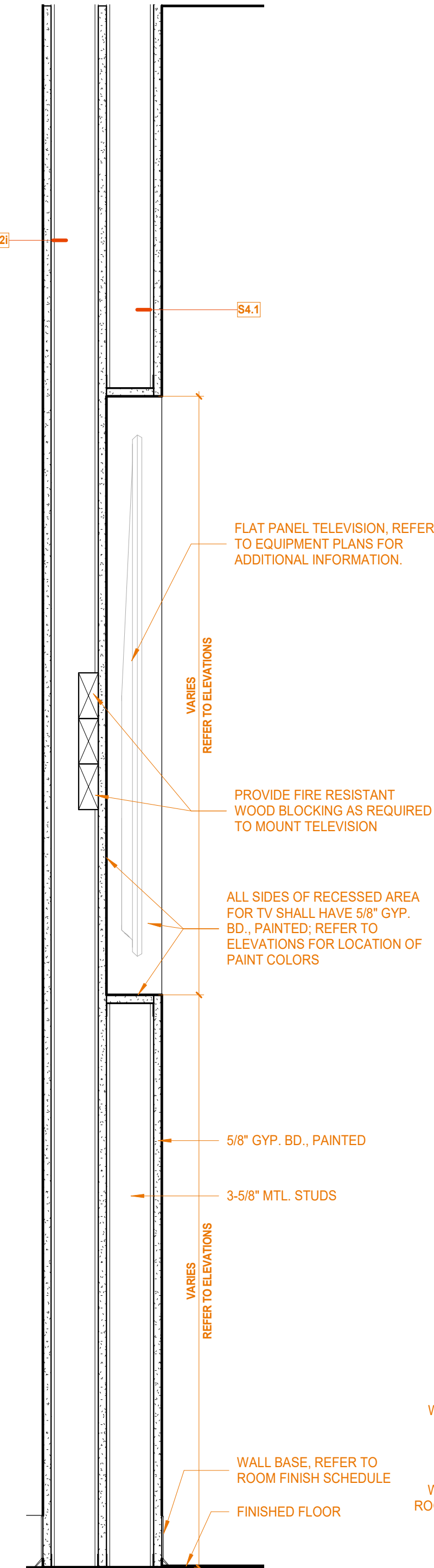


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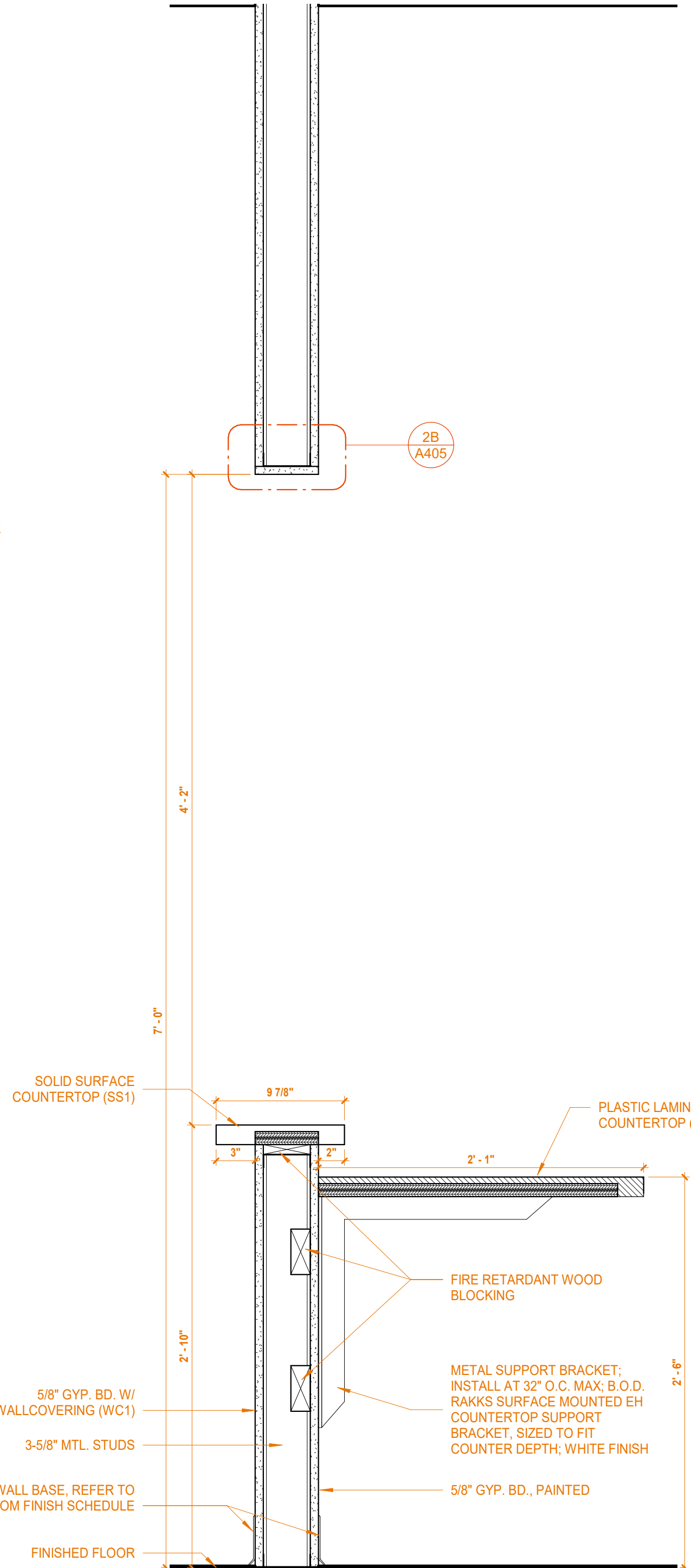
6A FLAG CASE WALL SECTION  
1 1/2" = 1'-0" REF: 1B/A405



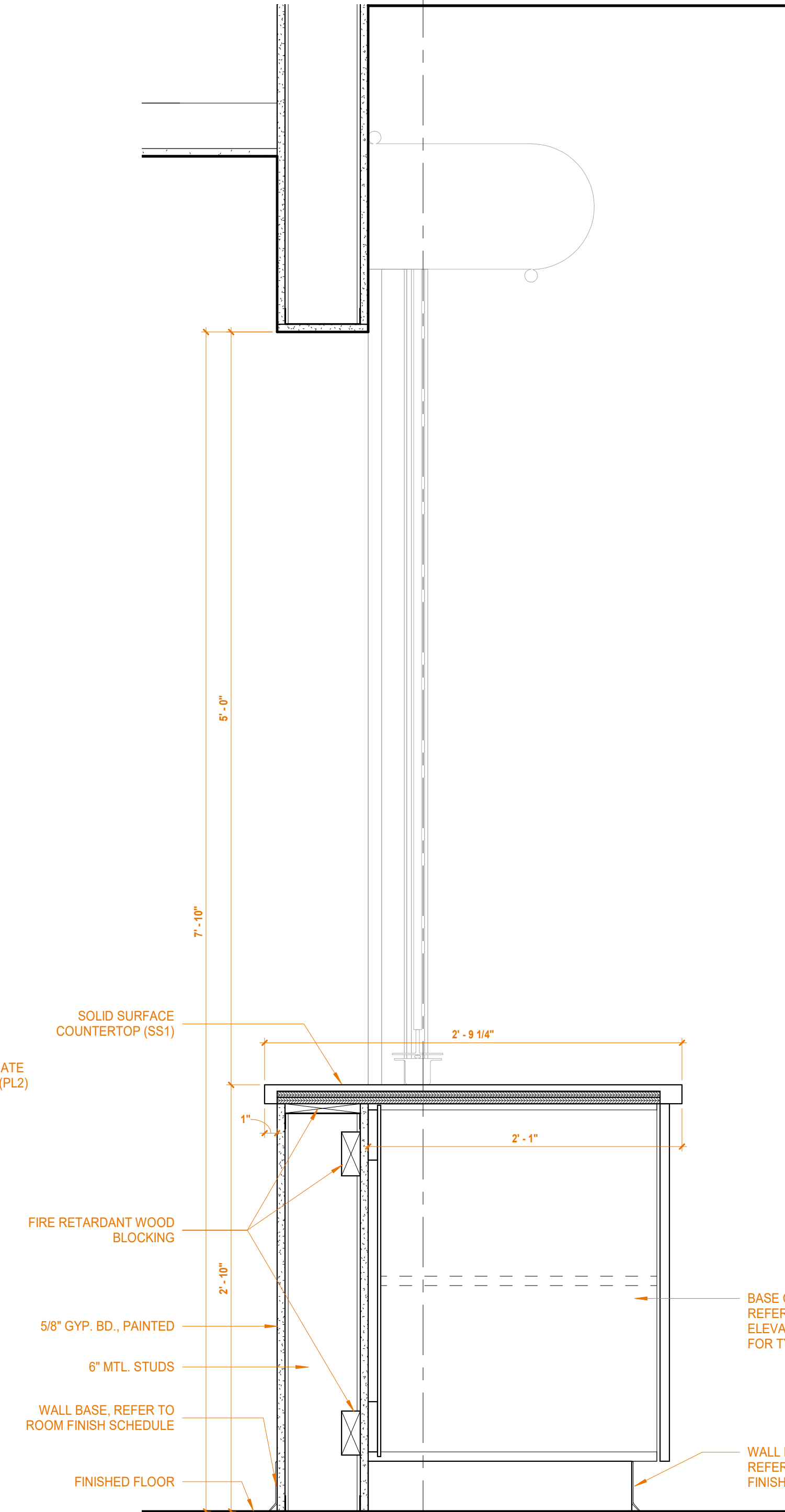
5A RECESSED TV WALL  
1 1/2" = 1'-0" REF: 1B/A405



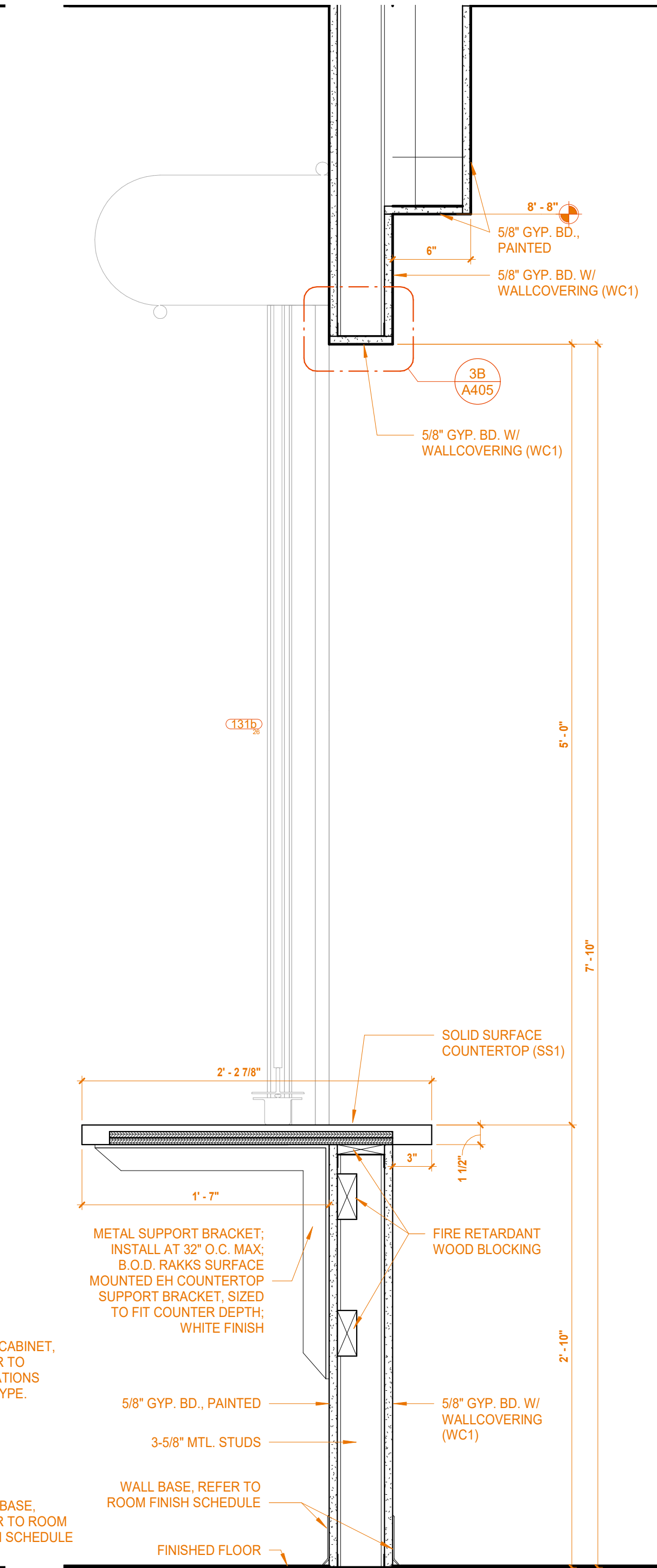
4A UNION HALL CHECK-IN WINDOW  
1 1/2" = 1'-0" REF: 1B/A405



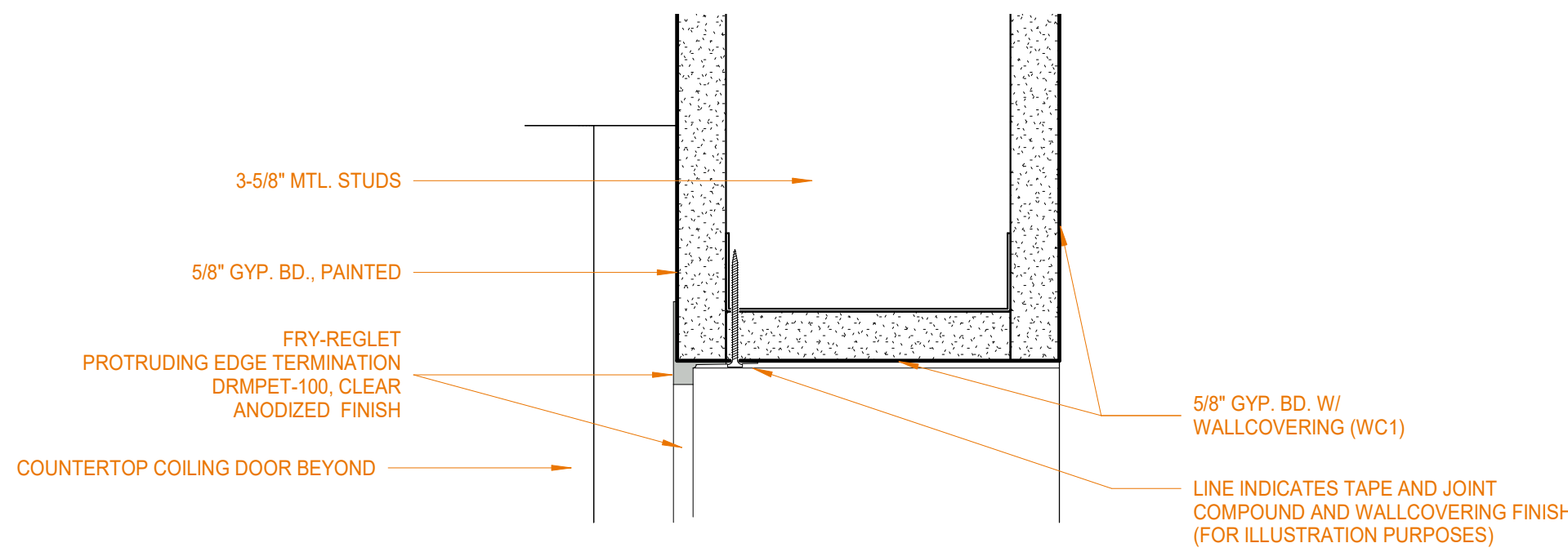
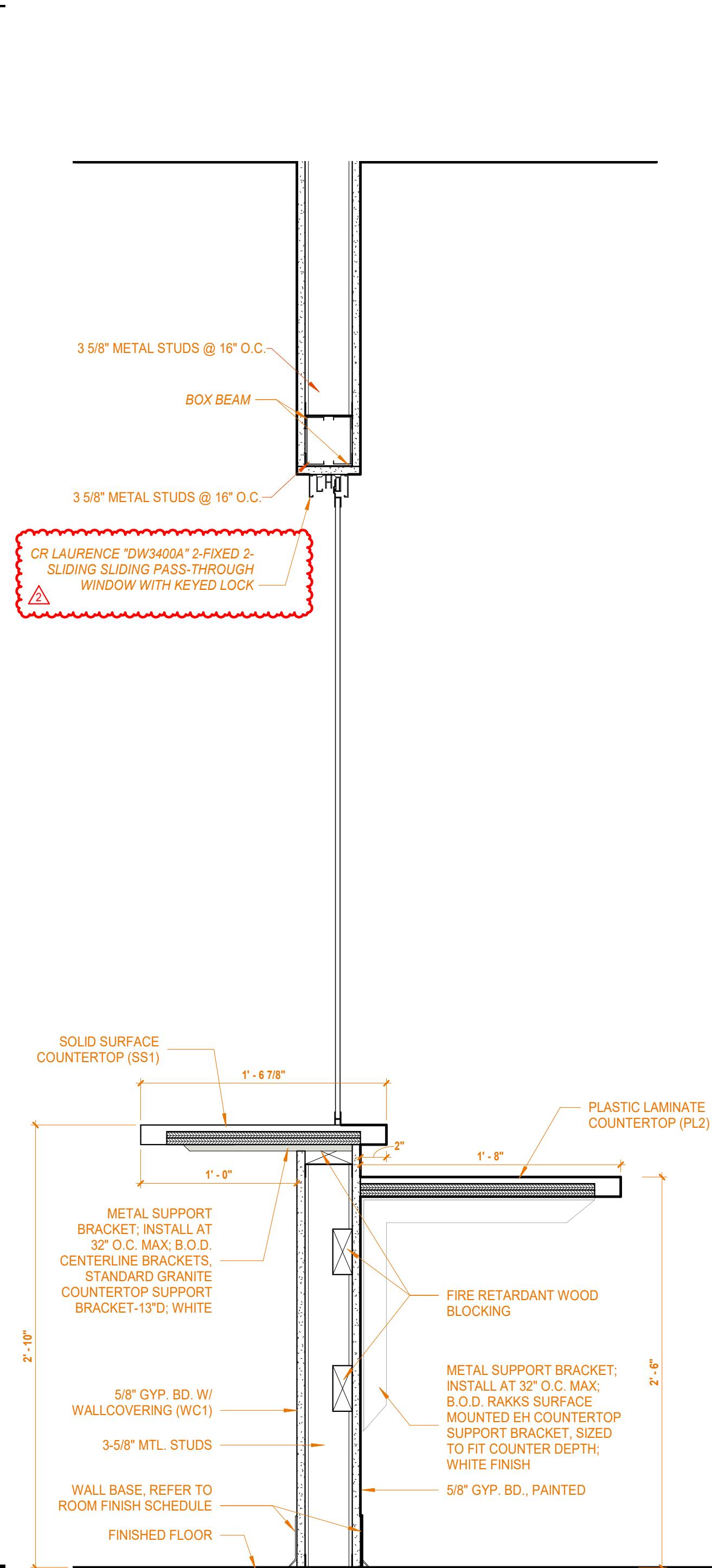
3A WARMING KITCHEN PASS-THRU  
1 1/2" = 1'-0" REF: 1B/A405



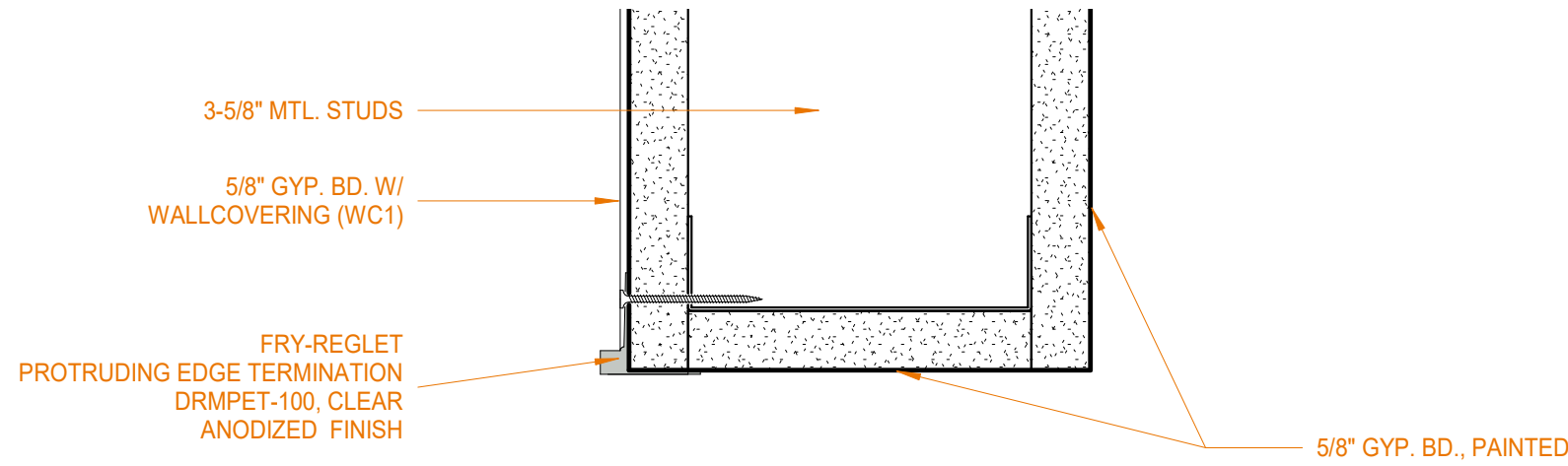
2A MERCHANDISE TRANSACTION WINDOW  
1 1/2" = 1'-0" REF: 1A/A405



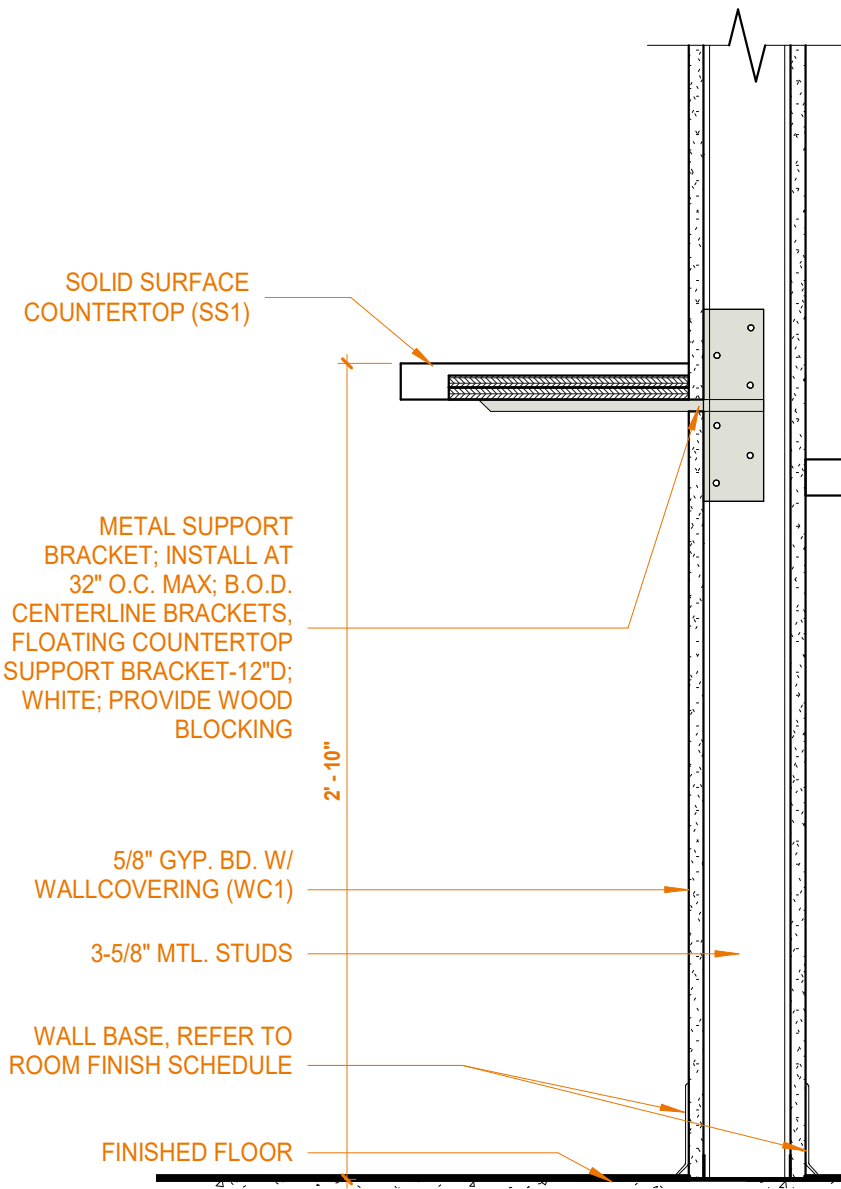
1A RECEPTION TRANSACTION WINDOW  
1 1/2" = 1'-0" REF: 1A/A405



3B MERCHANDISE OPENING WALLCOVERING TERMINATION  
6" = 1'-0" REF: 2A/A405



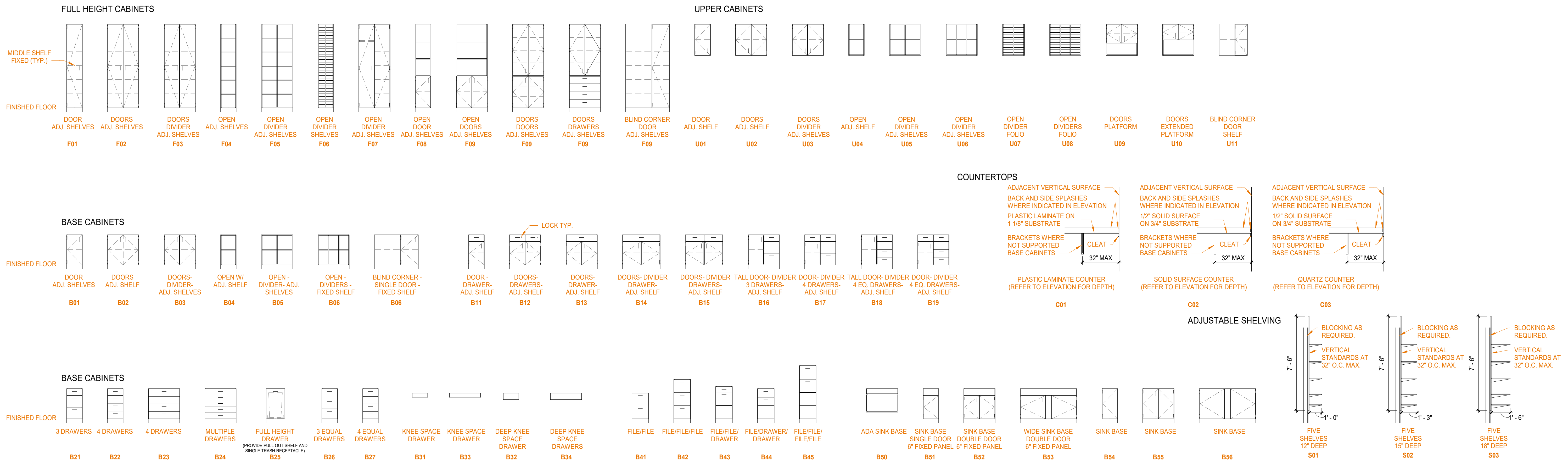
2B CHECK-IN OPENING WALLCOVERING TERMINATION  
6" = 1'-0" REF: 1A/A405



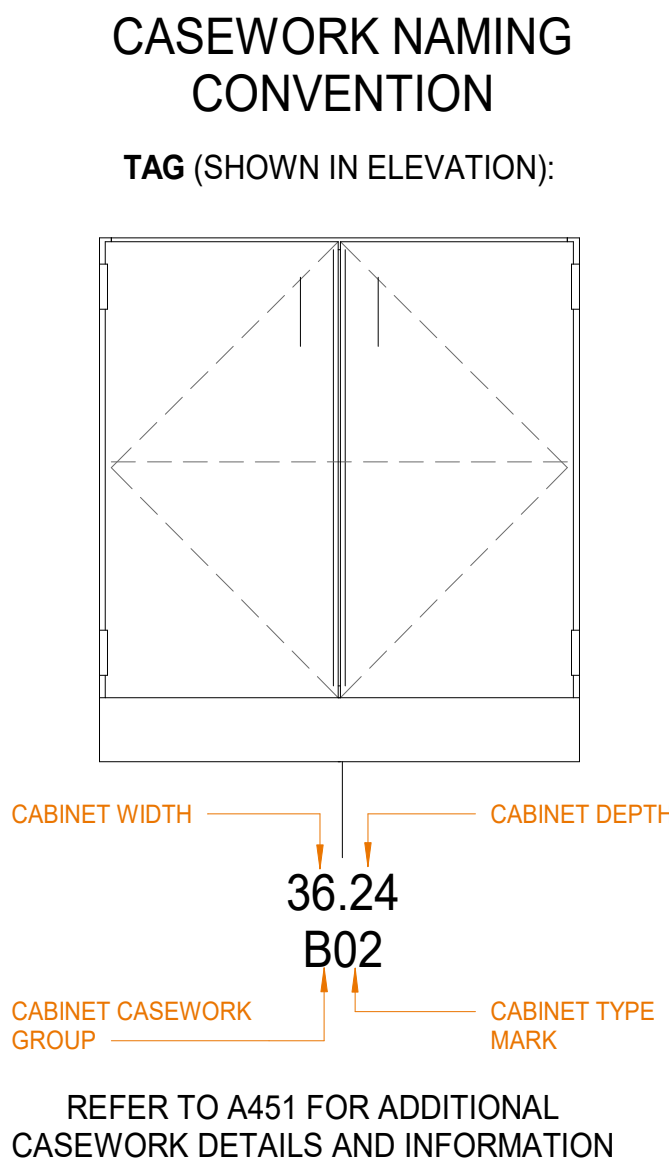
1B RECEPTION TRANSACTION TOP (BEYOND WINDOW)  
1 1/2" = 1'-0" REF: 1A/A405



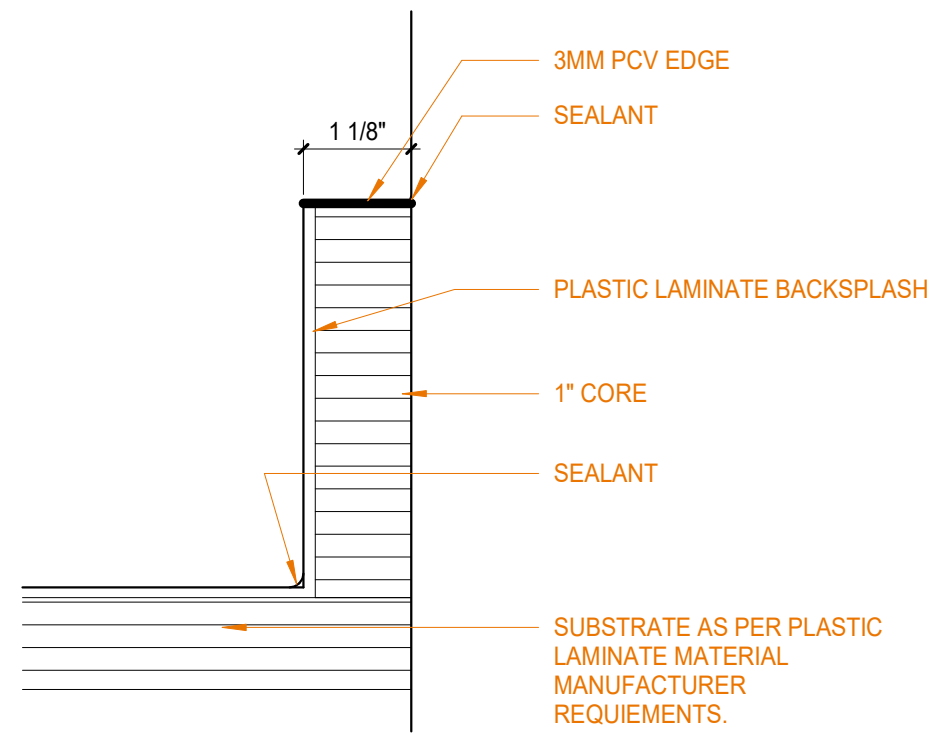
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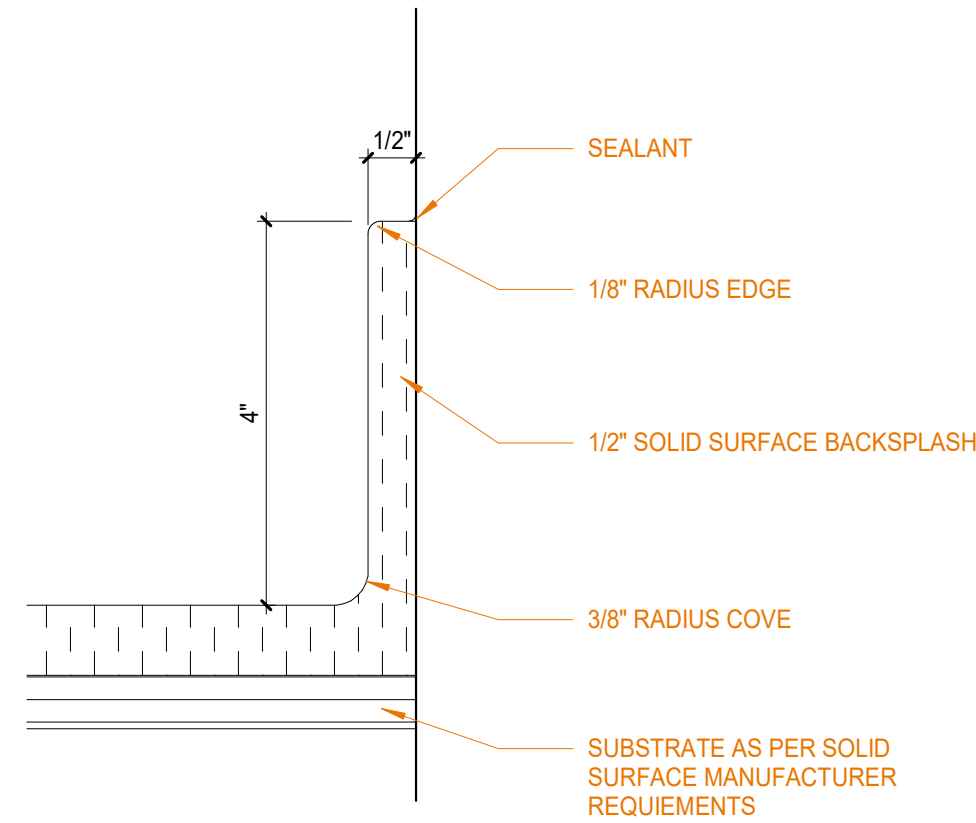
\* REFER TO ELEVATIONS FOR DIMENSIONS. DIMENSIONS ARE MEASURED TO FACE OF CABINET & TOP OF COUNTERTOP WHERE APPLICABLE. APPLY TO ALL CABINET TYPES IN EACH GROUP. UNLESS NOTED OTHERWISE (UNO), REFER TO CASEWORK TAGS FOR SUPPLEMENTAL CABINET DIMENSIONS.



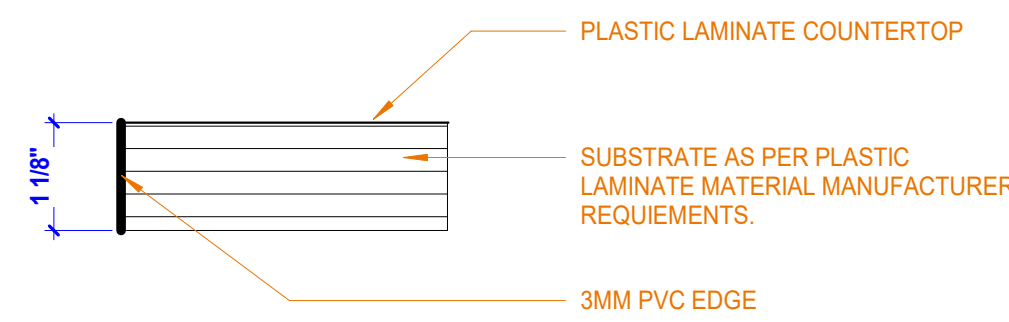
**2C** PLASTIC LAMINATE BACKSPLASH DETAIL  
6" = 1'-0"



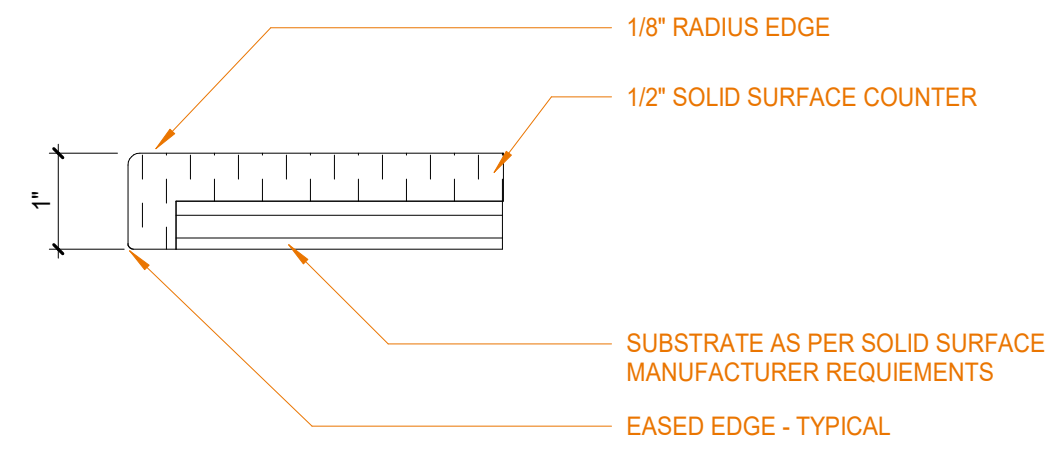
**1C** SOLID SURFACE BACKSPLASH DETAIL  
6" = 1'-0"



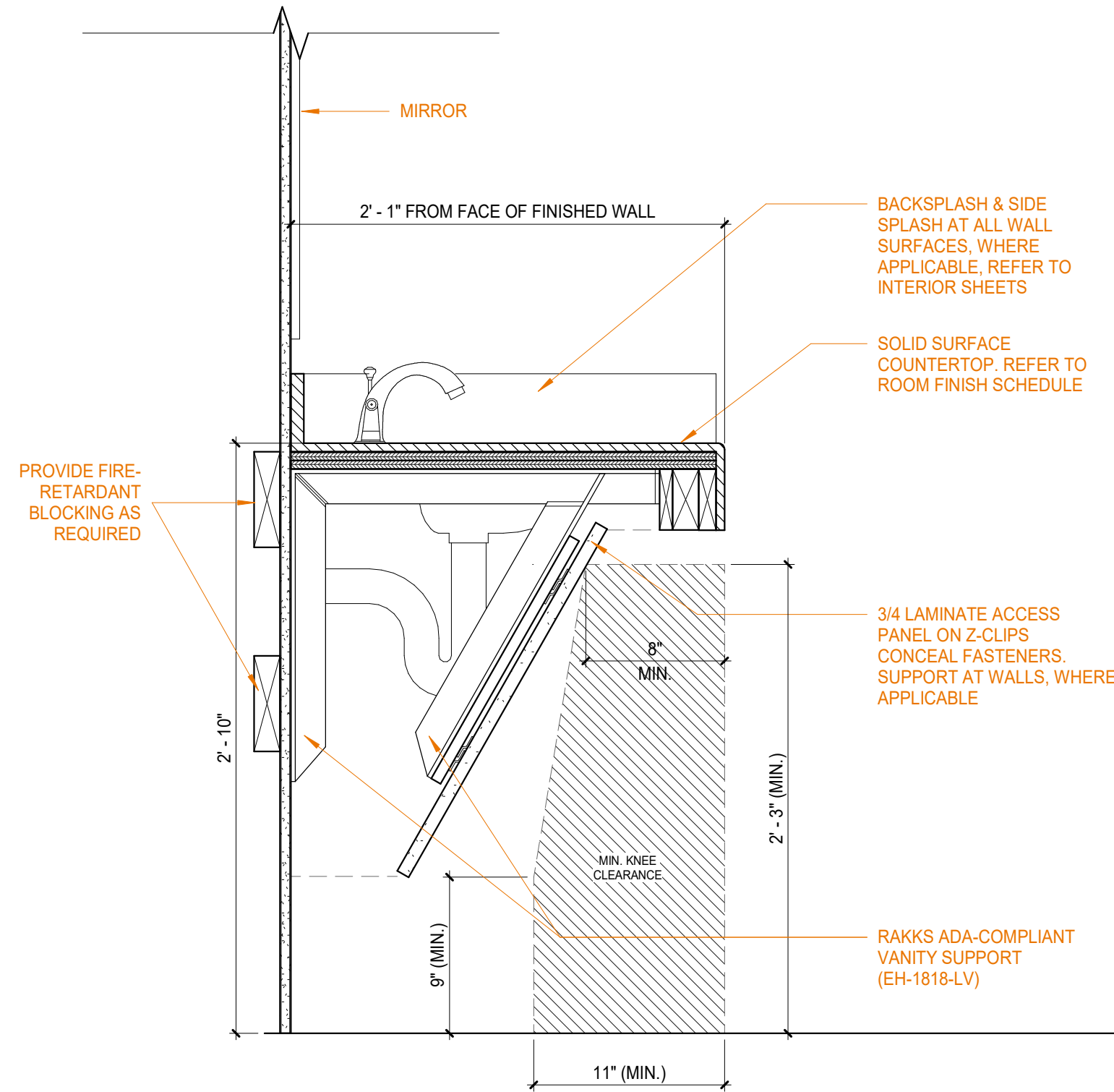
**2B** PLASTIC LAMINATE EDGE DETAIL  
6" = 1'-0"



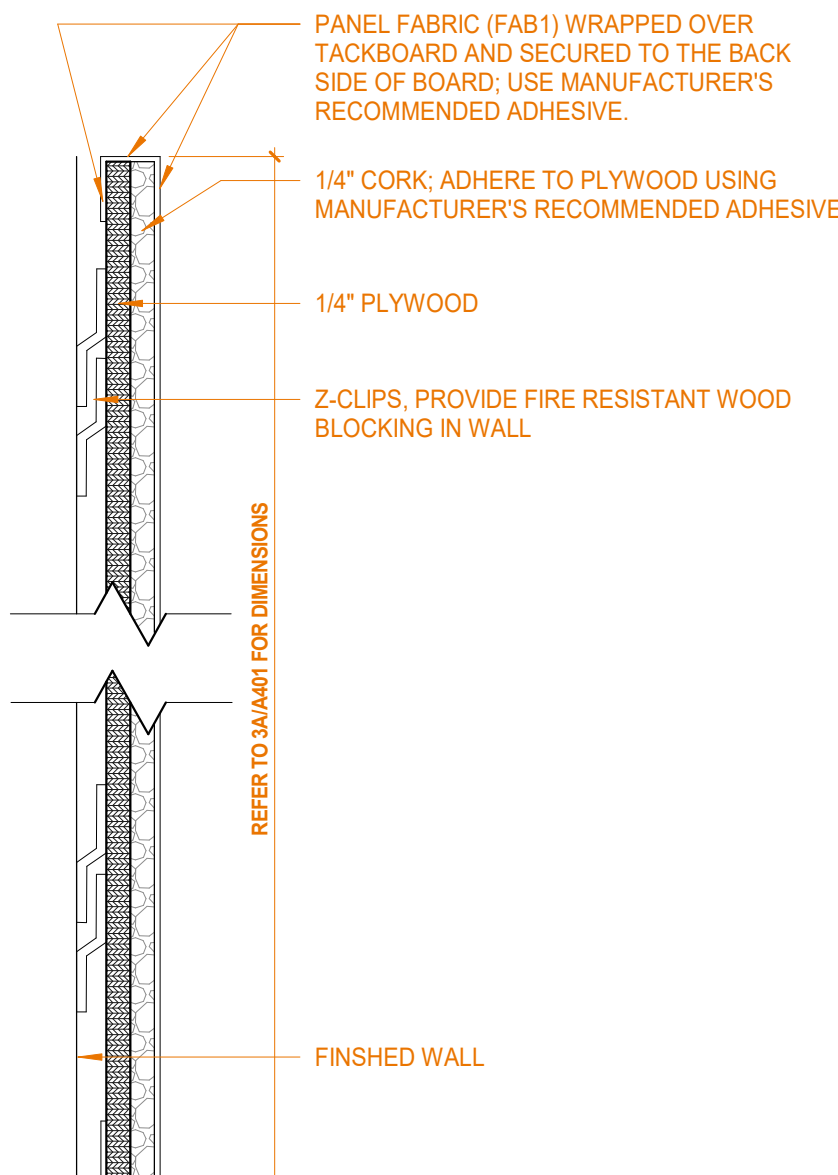
**1B** SOLID SURFACE EDGE DETAIL  
6" = 1'-0"



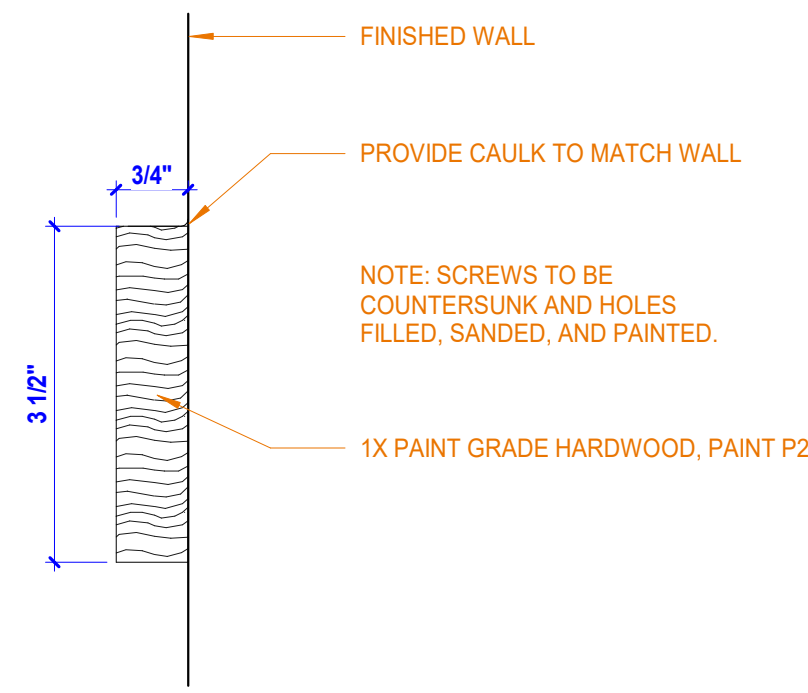
**4A** CASEWORK SECTION - ADA VANITY  
1 1/2" = 1'-0"



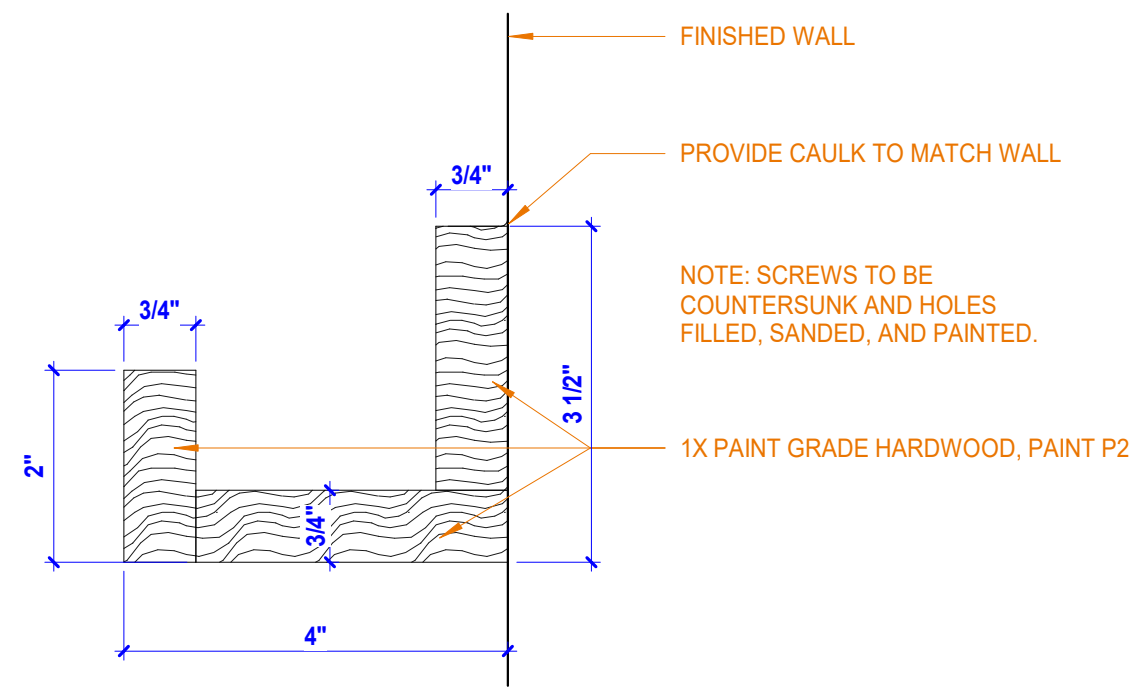
**3A** CUSTOM FABRIC WRAPPED TACKBOARDS  
6" = 1'-0"



**2A** CHAIR RAIL SECTION  
6" = 1'-0"

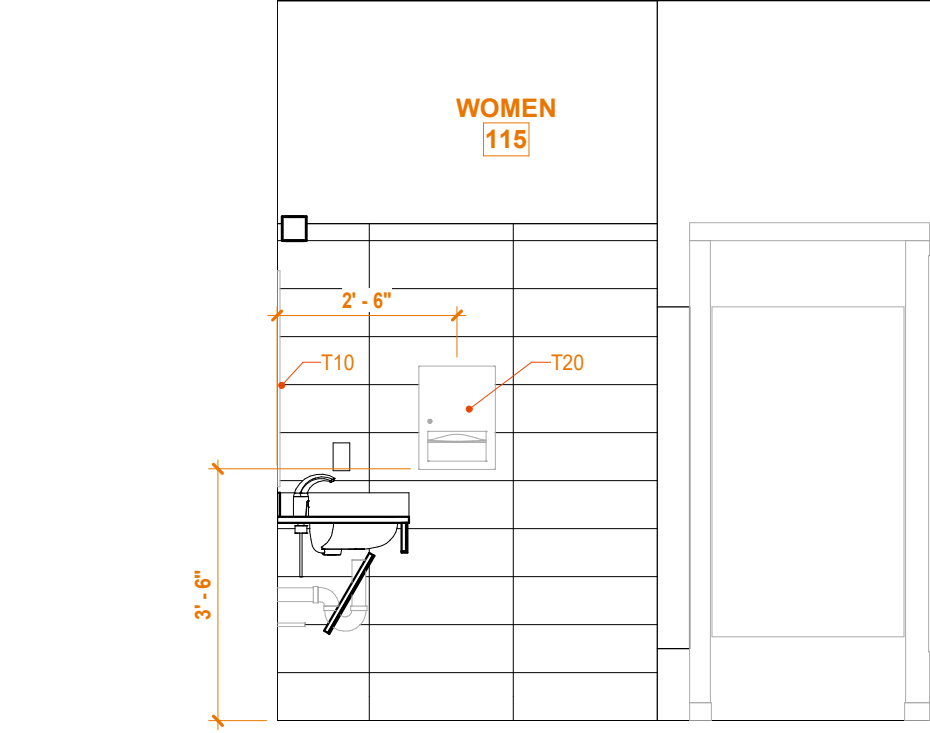


**1A** PRESENTATION RAIL SECTION  
6" = 1'-0"

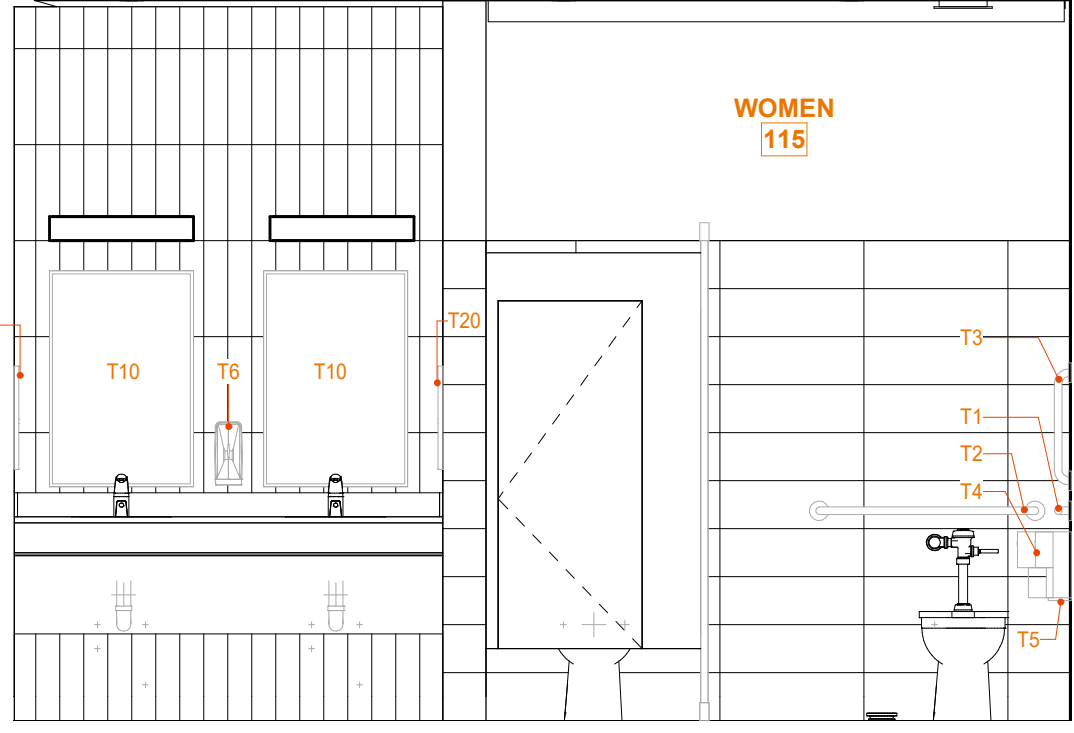




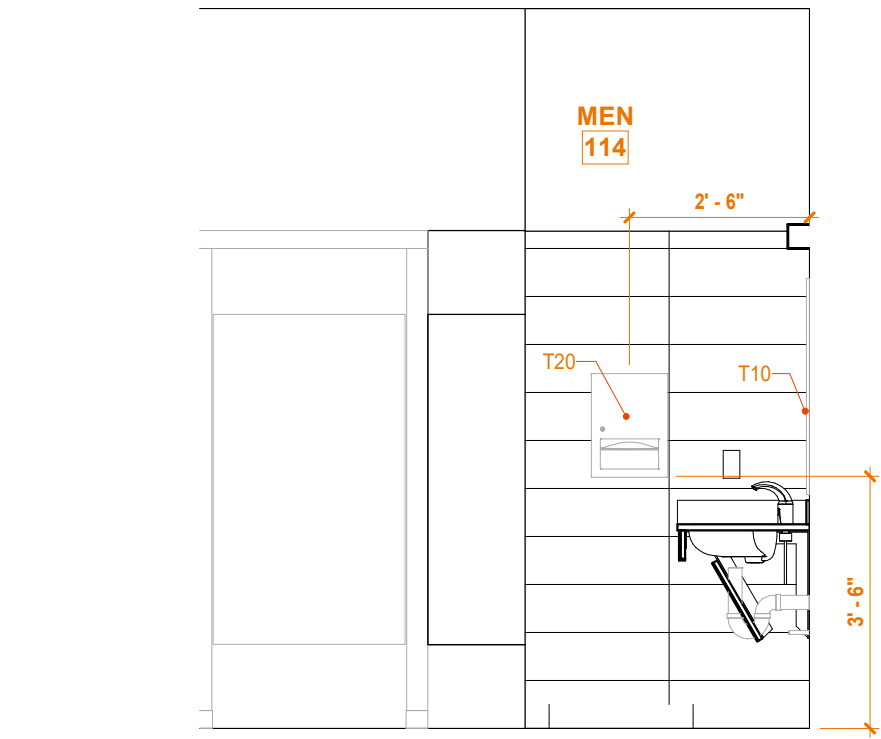
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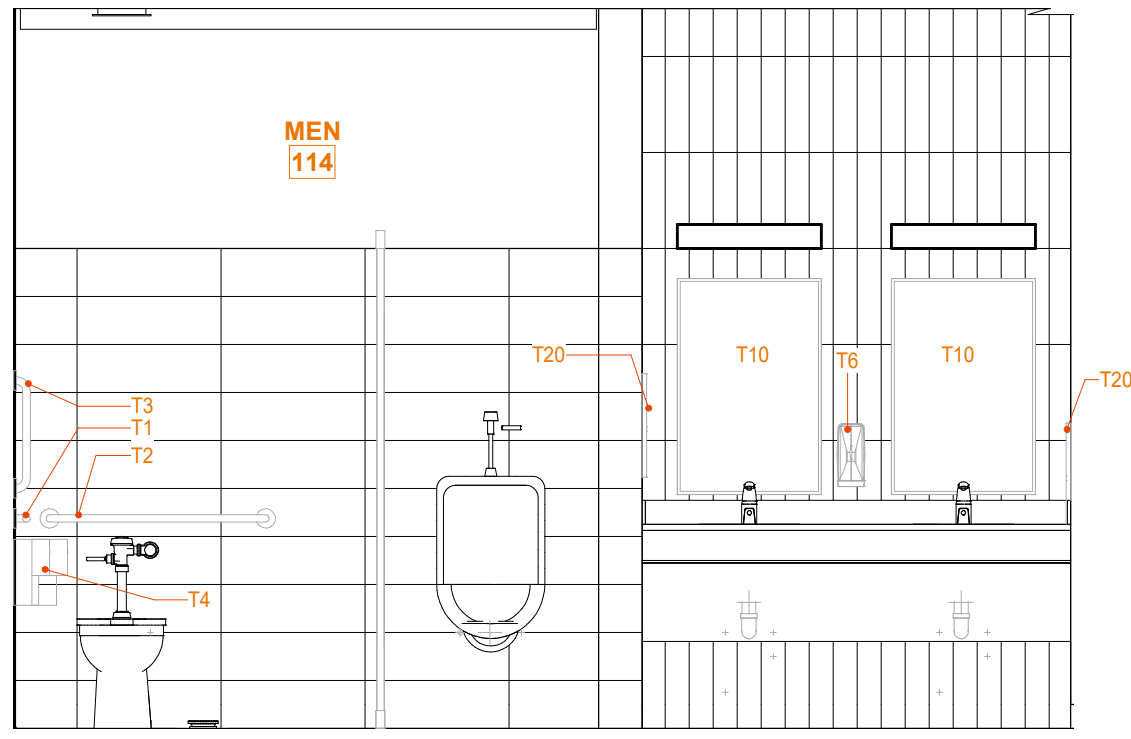
**6E STAFF WOMEN'S-SOUTH**  
3/8" = 1'-0" REF: 20 / A111



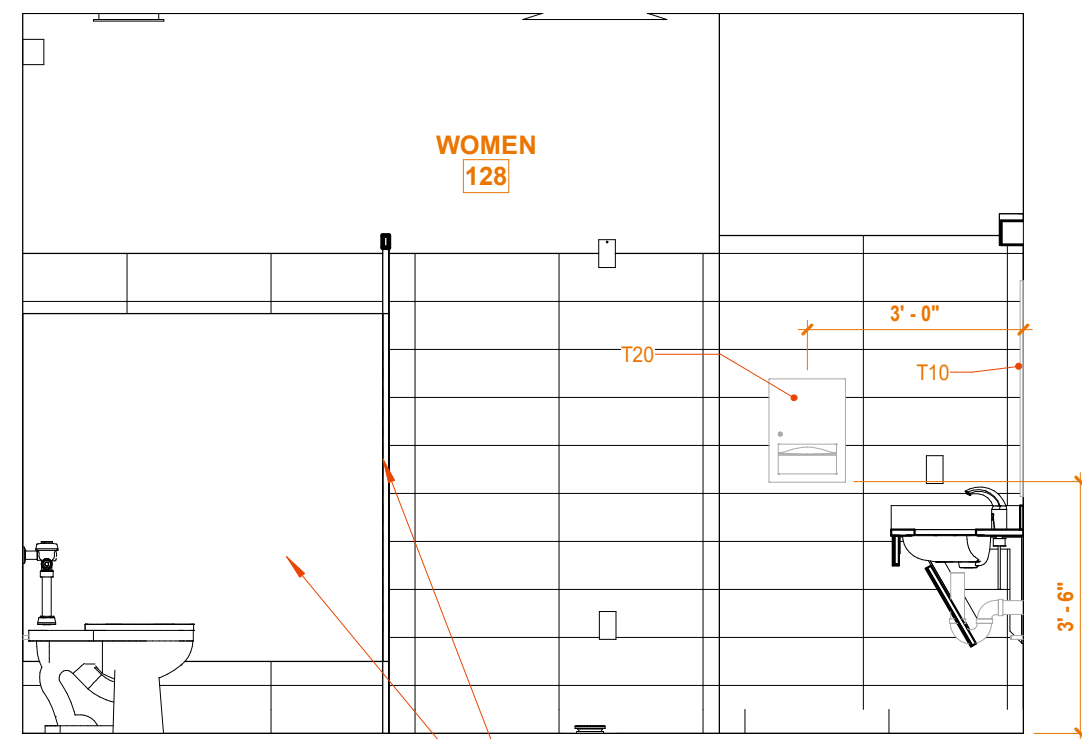
**5E STAFF WOMEN'S-EAST**  
3/8" = 1'-0" REF: 20 / A111



**6D STAFF MEN'S-SOUTH**  
3/8" = 1'-0" REF: 20 / A111

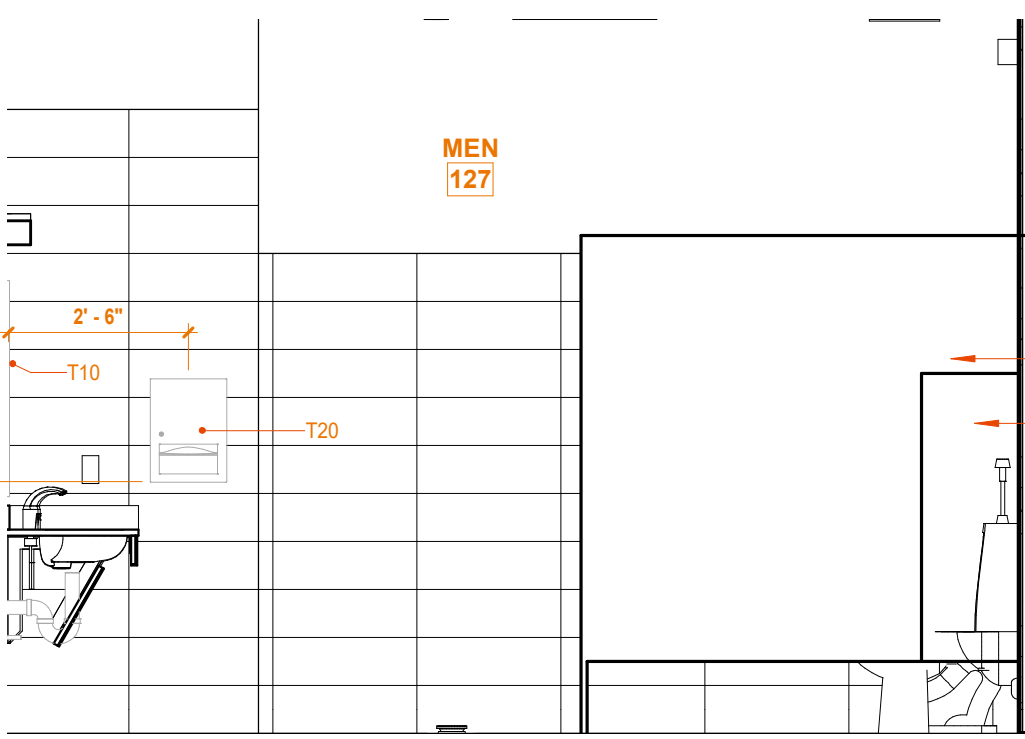


**5D STAFF MEN'S-WEST**  
3/8" = 1'-0" REF: 20 / A111

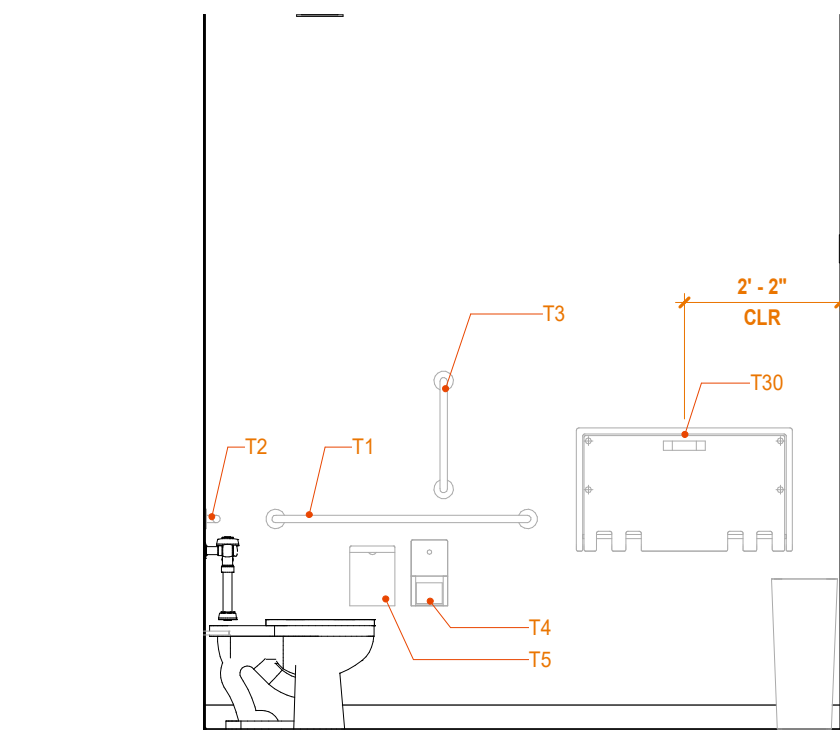


**6C WOMEN-NORTH**  
3/8" = 1'-0" REF: 20 / A111

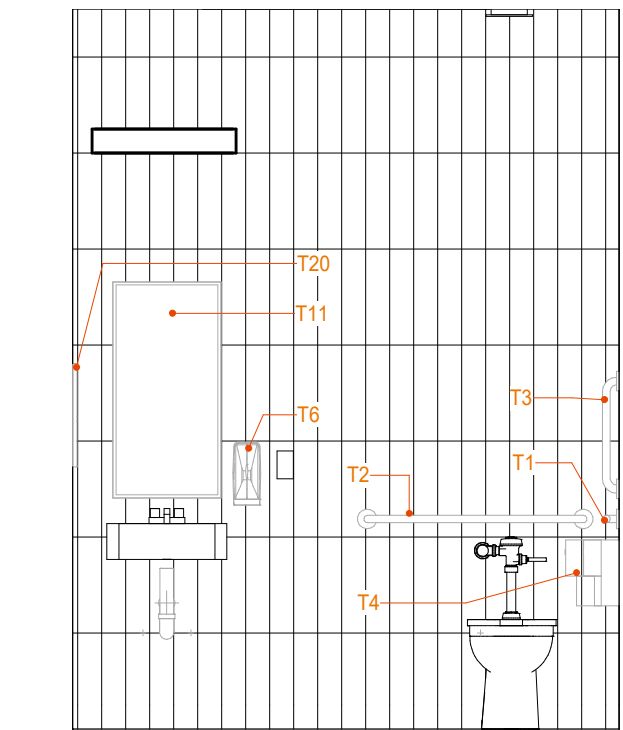
10 21 13 A3 DOOR PANEL  
10 21 13 A1 TOILET PARTITION



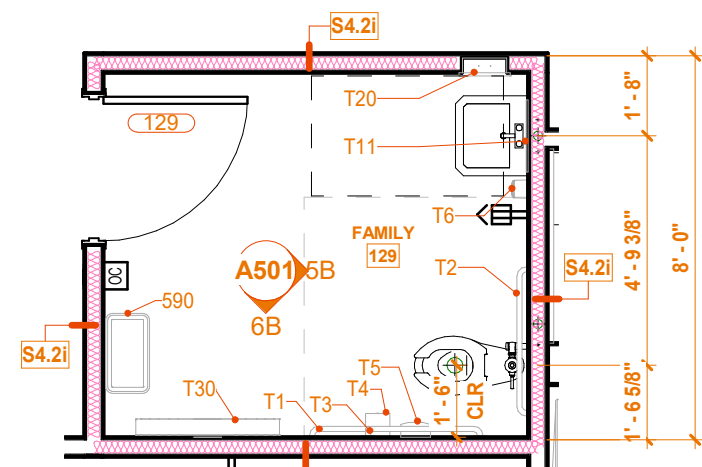
**5C MEN-NORTH**  
3/8" = 1'-0" REF: 20 / A111



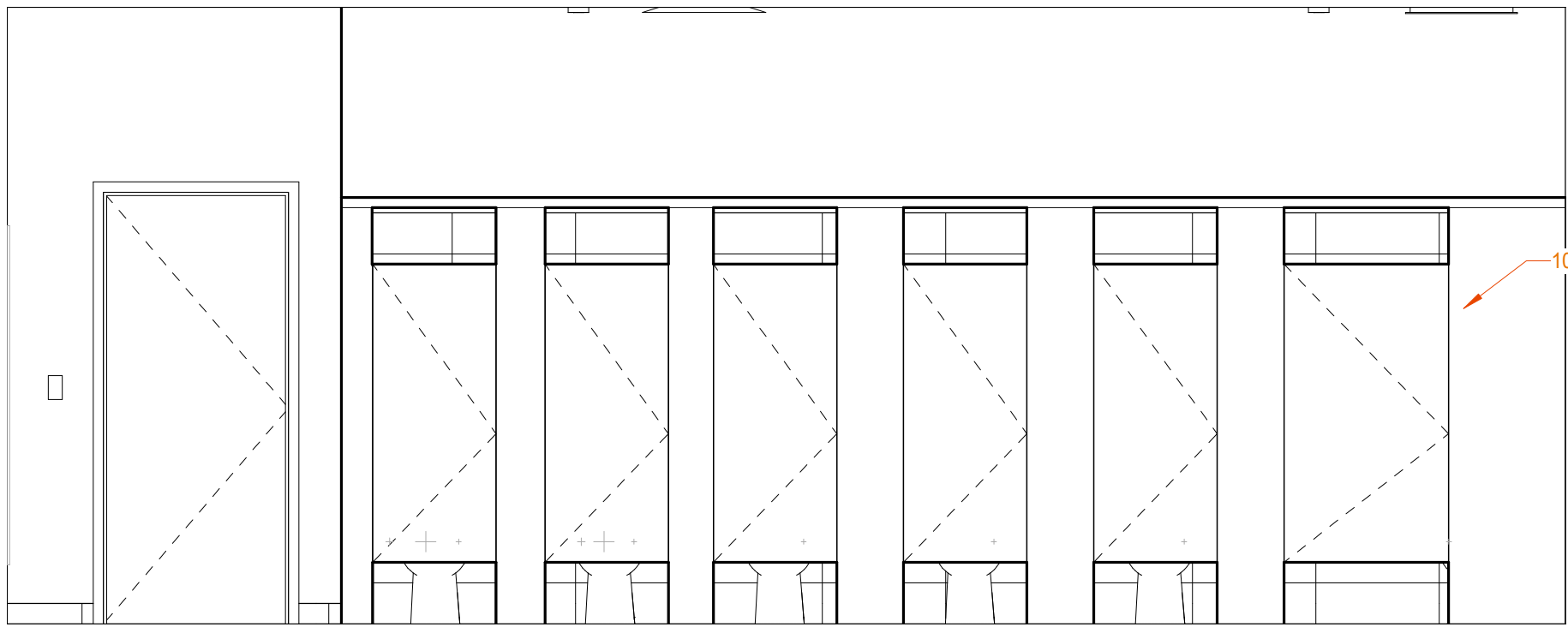
**6B FAMILY RESTROOM - SOUTH**  
3/8" = 1'-0" REF: 1A / A121



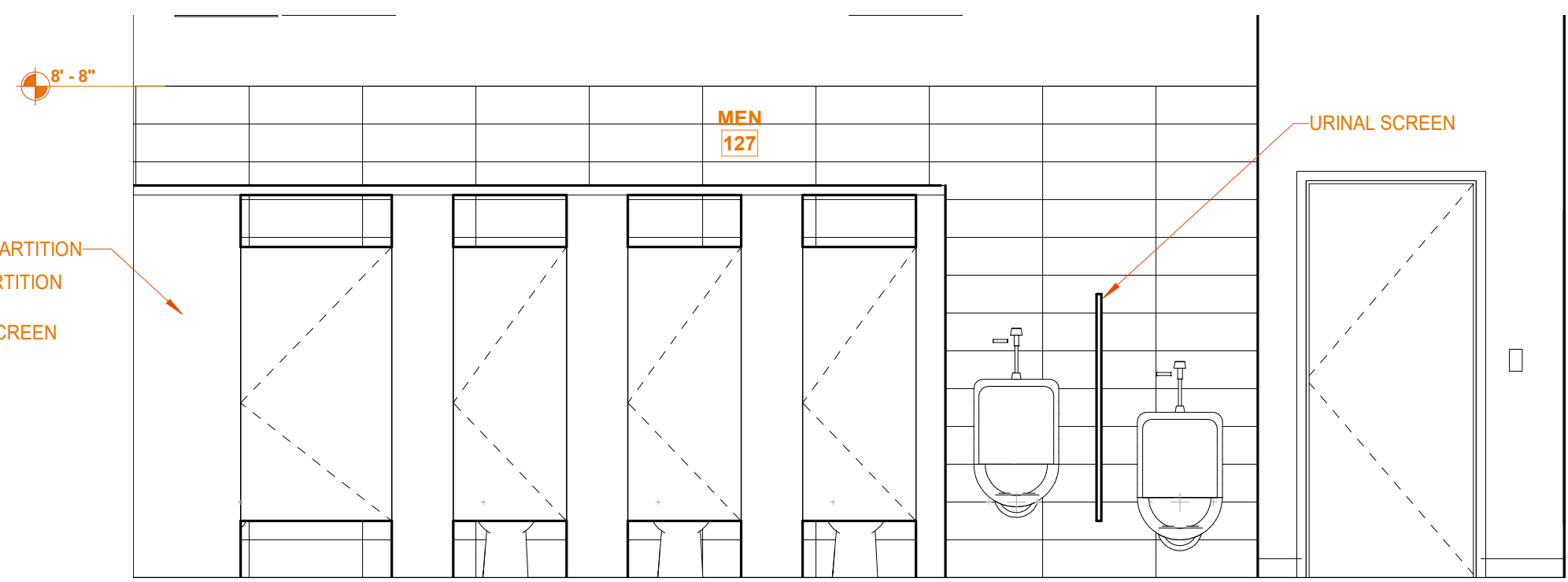
**5B FAMILY RESTROOM - EAST**  
3/8" = 1'-0" REF: 1A / A121



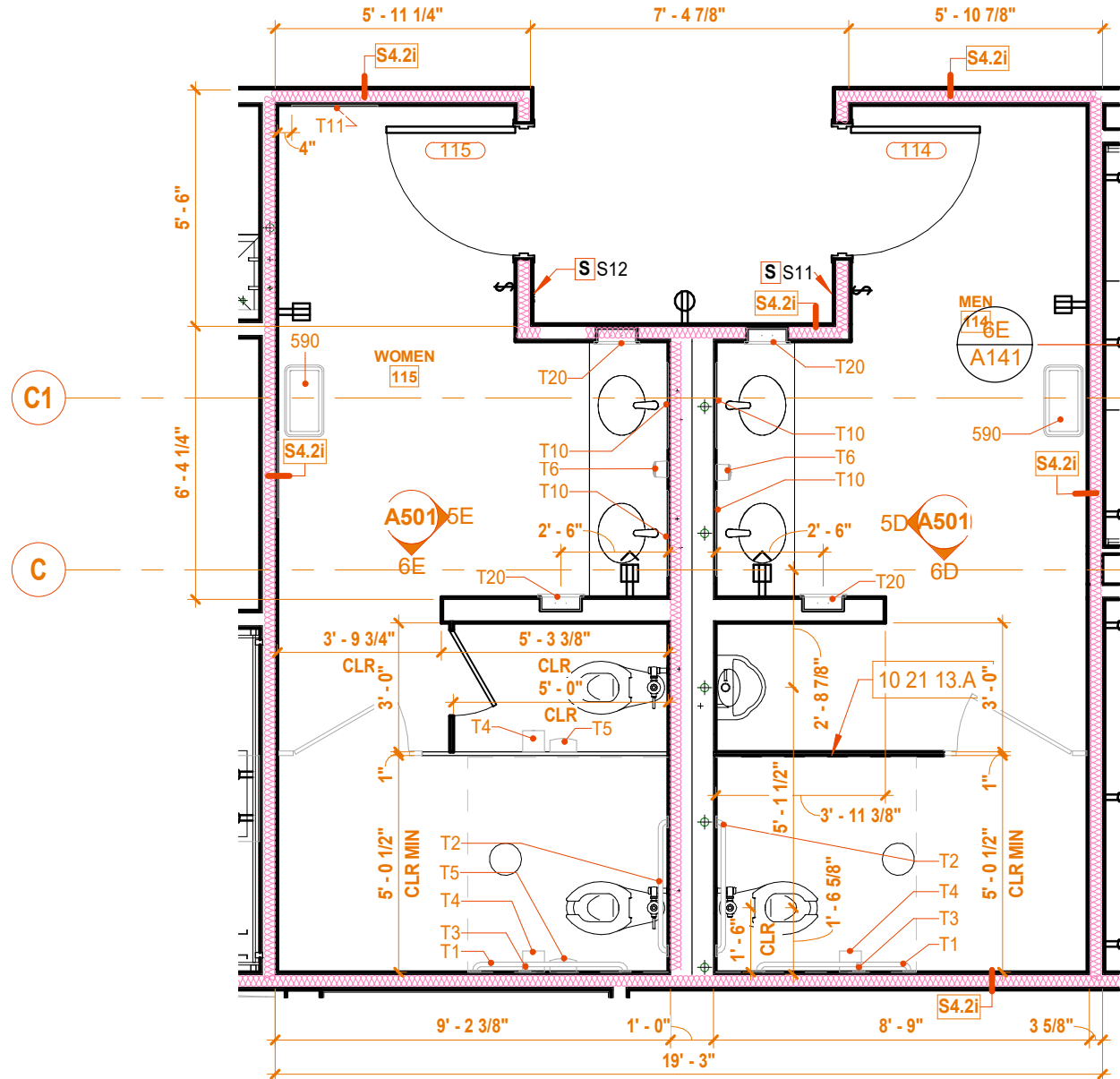
**3A ENLARGED FLOOR PLAN - FAMILY RESTROOM**  
1/4" = 1'-0" REF: 1A / A121



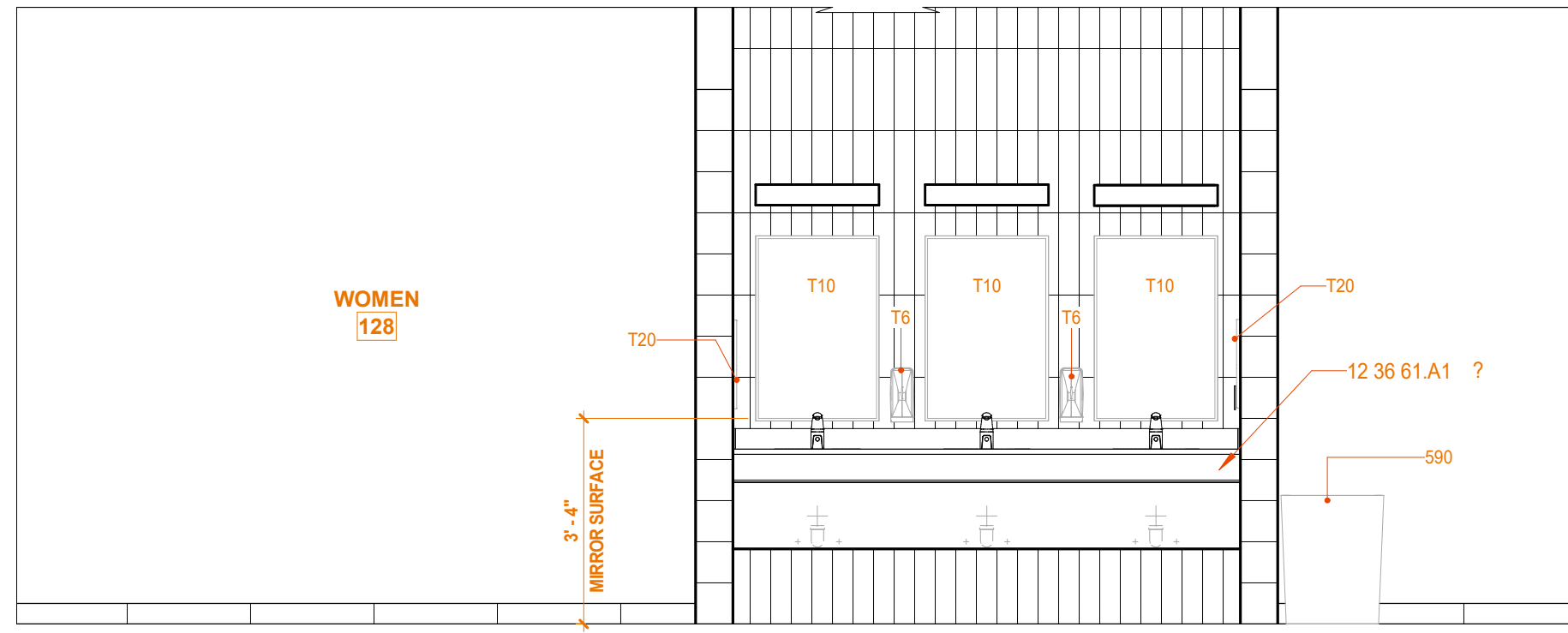
**3D WOMEN-WEST**  
3/8" = 1'-0" REF: 3D / A115



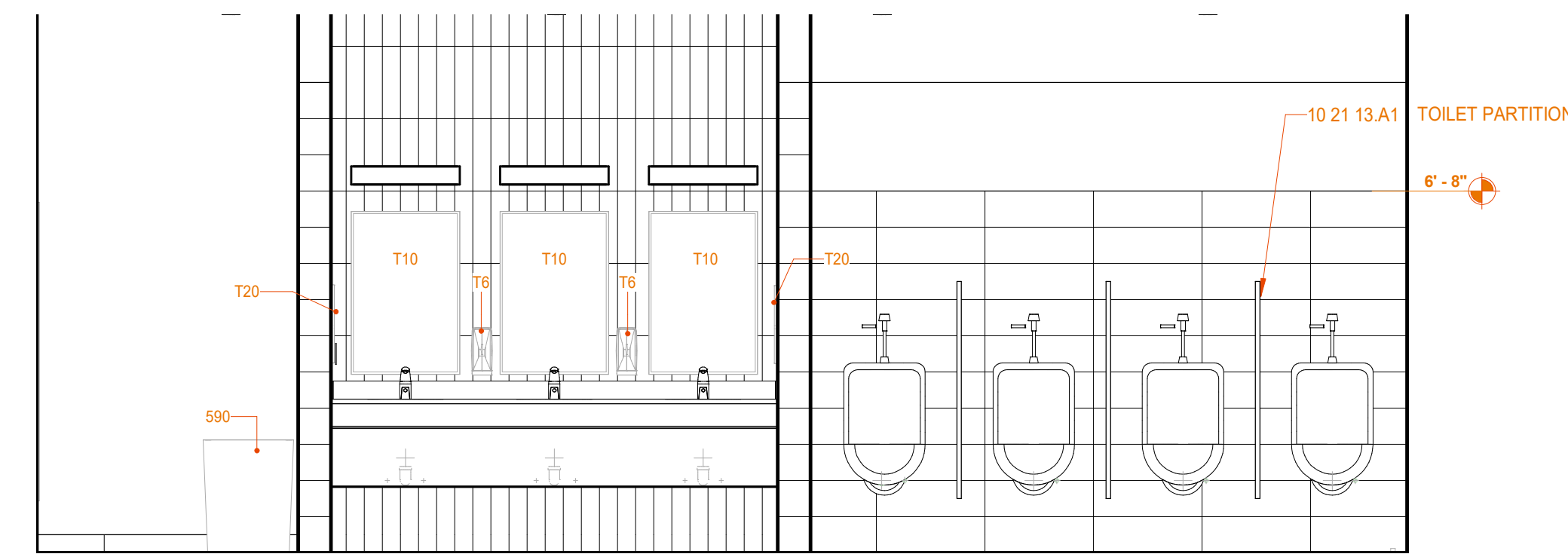
**3C MEN-EAST**  
3/8" = 1'-0" REF: 3D / A111



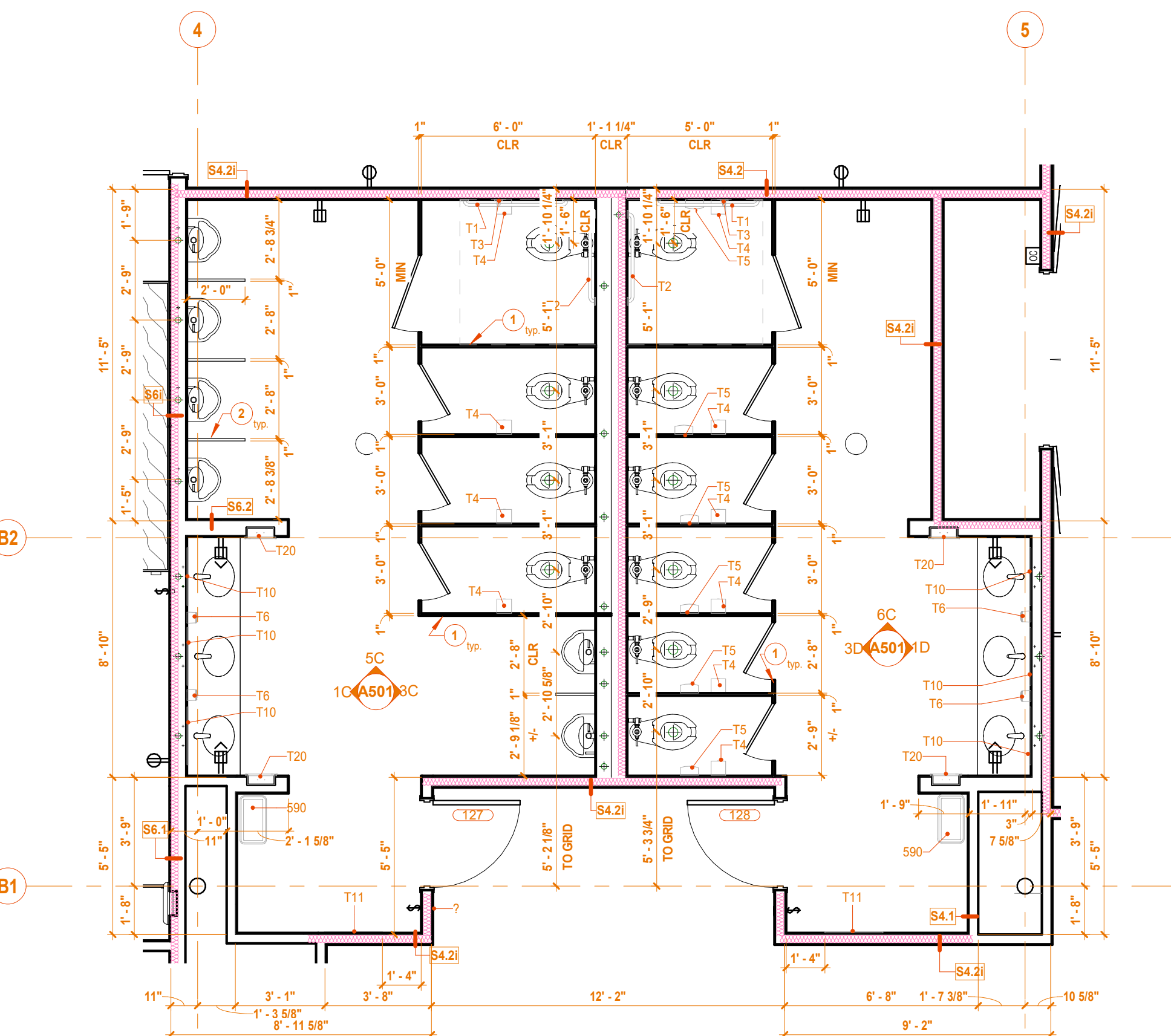
**2A ENLARGED PLAN - STAFF RESTROOMS**  
1/4" = 1'-0" REF: 1A / A121



**1D WOMEN-EAST**  
3/8" = 1'-0" REF: 3D / A111



**1C MEN-WEST**  
3/8" = 1'-0" REF: 3D / A111



**1A ENLARGED PLAN - PUBLIC RESTROOMS**  
1/4" = 1'-0" REF: 1A / A121

(T) TOILET / BATH ACCESSORY SCHEDULE					
Type Mark	DESCRIPTION	Model	Manufacturer	Type Comments	RESPONSIBILITY
T1	GRAB BAR - 42"	B-5806 Series	Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T2	GRAB BAR - 36"	B-5806 Series	Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T3	GRAB BAR - 18"	B-5806 Series	Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T4	SURFACE MOUNTED TOILET PAPER DISPENSER				100 - EQUIPMENT (CFC)
T5	Surface-Mounted Sanitary Napkin Disposal	B-270	Bobrick Washroom Equipment, Inc.	Satin Finish	100 - EQUIPMENT (CFC)
T6	Soap Dispenser   Liquid Soap - Tank Type Vertical	6A00-11	Bradley Corporation		100 - EQUIPMENT (CFC)
T10	Glass Mirror with Stainless Steel Angle Frame	B-165 Series	Bobrick Washroom Equipment, Inc.	24"x36" SS Frame	100 - EQUIPMENT (CFC)
T11	Glass Mirror with Stainless Steel Angle Frame	B-165 Series	Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T20	RECESSED PAPER TOWEL DISPENSER	B-358033	Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T30	BABY CHANGING STATION		Bobrick Washroom Equipment, Inc.		100 - EQUIPMENT (CFC)
T90	Stainless Steel Mop and Broom Holder	B-223	Bobrick Washroom Equipment, Inc.	Satin Finish	100 - EQUIPMENT (CFC)
T91	Paper Towel Dispenser				

**SCHEDULE NOTES: (T) TOILET ACCESSORIES SCHEDULE**

- TOILET & BATH ACCESSORIES IN THE PROJECT APPEAR IN THIS SCHEDULE AND ARE IDENTIFIED IN THE PLANS AND ELEVATIONS BEGINNING WITH A "T".
- REFERENCE SHEET A151 EQUIPMENT PLAN FOR SCHEDULED ITEMS THAT MAY APPEAR IN RESTROOMS OR JANITOR ROOMS THAT ARE NOT SPECIFICALLY TOILET AND BATH ACCESSORIES.
- REFERENCE ENLARGED FLOOR PLANS AND ELEVATIONS ON THIS SHEET FOR TOILET ACCESSORIES INCLUDED IN THIS SCHEDULE.
- PRODUCTS AND MANUFACTURERS LISTED IN THIS SCHEDULE ARE BASIS OF DESIGN PRODUCTS. REFERENCE SECTION 10 28 00 TOILET AND BATH ACCESSORIES OF THE PROJECT MANUAL FOR ACCEPTABLE MANUFACTURERS OF SIMILAR PRODUCTS.
- ALL TOILET ACCESSORIES SHALL BE MOUNTED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL AUTHORITIES HAVING JURISDICTION. NOTIFY THE ARCHITECT IMMEDIATELY IF TOILETS ACCESSORIES INDICATED IN THIS SCHEDULE CANNOT BE INSTALLED TO MEET OR EXCEED MANUFACTURER'S MOUNTING REQUIREMENTS FOR ADA COMPLIANCE.

**ENLARGED RESTROOM PLAN/ELEV NOTES**

- TOILET COMPARTMENT PARTITION - FLOOR ANCHORED, OVERHEAD BRACED.
- URINAL PARTITION

**GENERAL NOTES: ENLARGED RESTROOM PLANS**

- PROVIDE BLOCKING IN WALL FOR ALL TOILET AND BATH ACCESSORIES WITH MECHANICAL ATTACHMENT.
- WHERE MIRRORS ARE INDICATED ABOVE SINKS OR LAVATORIES, CENTER MIRROR ON LAVATORY.
- WHERE SOAP DISPENSERS ARE INDICATED BETWEEN TWO MIRRORS, CENTER DISPENSER BETWEEN MIRRORS.
- REFERENCE SHEET A020 FOR MOUNTING HEIGHTS NOT INDICATED ON THE ELEVATIONS OR SCHEDULE.
- REFERENCE SHEET A150 SERIES FOR INTERIOR FINISH PLANS, MATERIAL SCHEDULES AND LEGENDS.
- PROVIDE WATER-RESISTANT GYPSUM BOARD AT LOCATIONS IN RESTROOMS AND JANITOR ROOMS. REFERENCE SECTION 09 28 00 GYPSUM BOARD OF THE PROJECT MANUAL FOR REQUIREMENTS AT WALLS INDICATED TO RECEIVE CERAMIC TILE.
- WHERE FLOOR DRAINS ARE INDICATED, TOP OF FLOOR DRAIN SHALL BE FLUSH WITH ADJACENT FLOOR FINISH. FLOOR FINISH SHALL NOT ENCRDACH ONTO OR INTERFERE WITH DRAIN BODY.
- PROVIDE CONTINUOUS MOUNTING BRACKET FOR ALL URINAL PARTITIONS.
- PROVIDE MOLD AND MILDEW RESISTANT SEALANT JOINTS BETWEEN PLUMBING FIXTURES AND ADJACENT SURFACES, COUNTERTOPS AND WALL FINISHES, DOOR FRAMES AND FLOOR FINISHES.

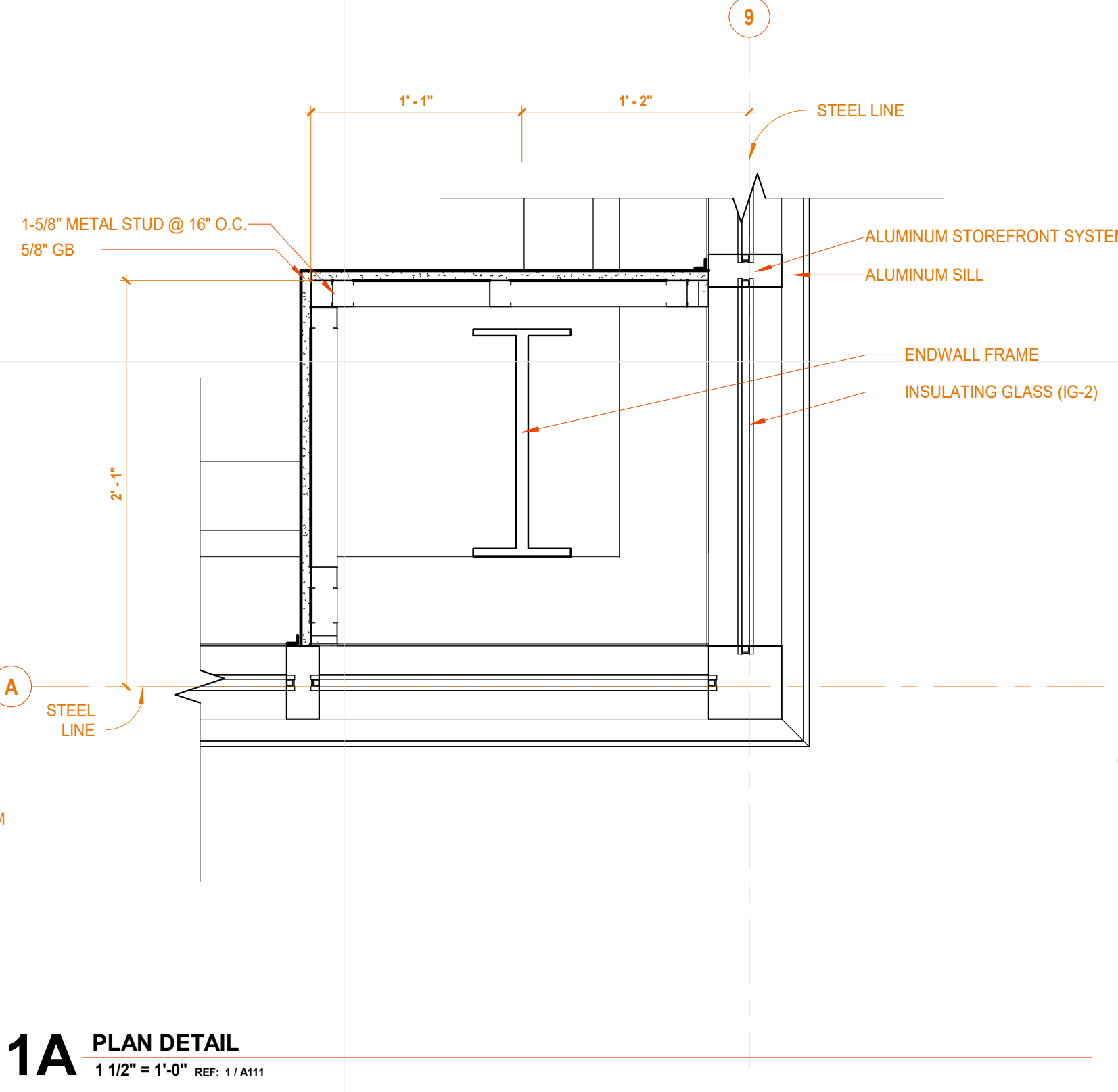
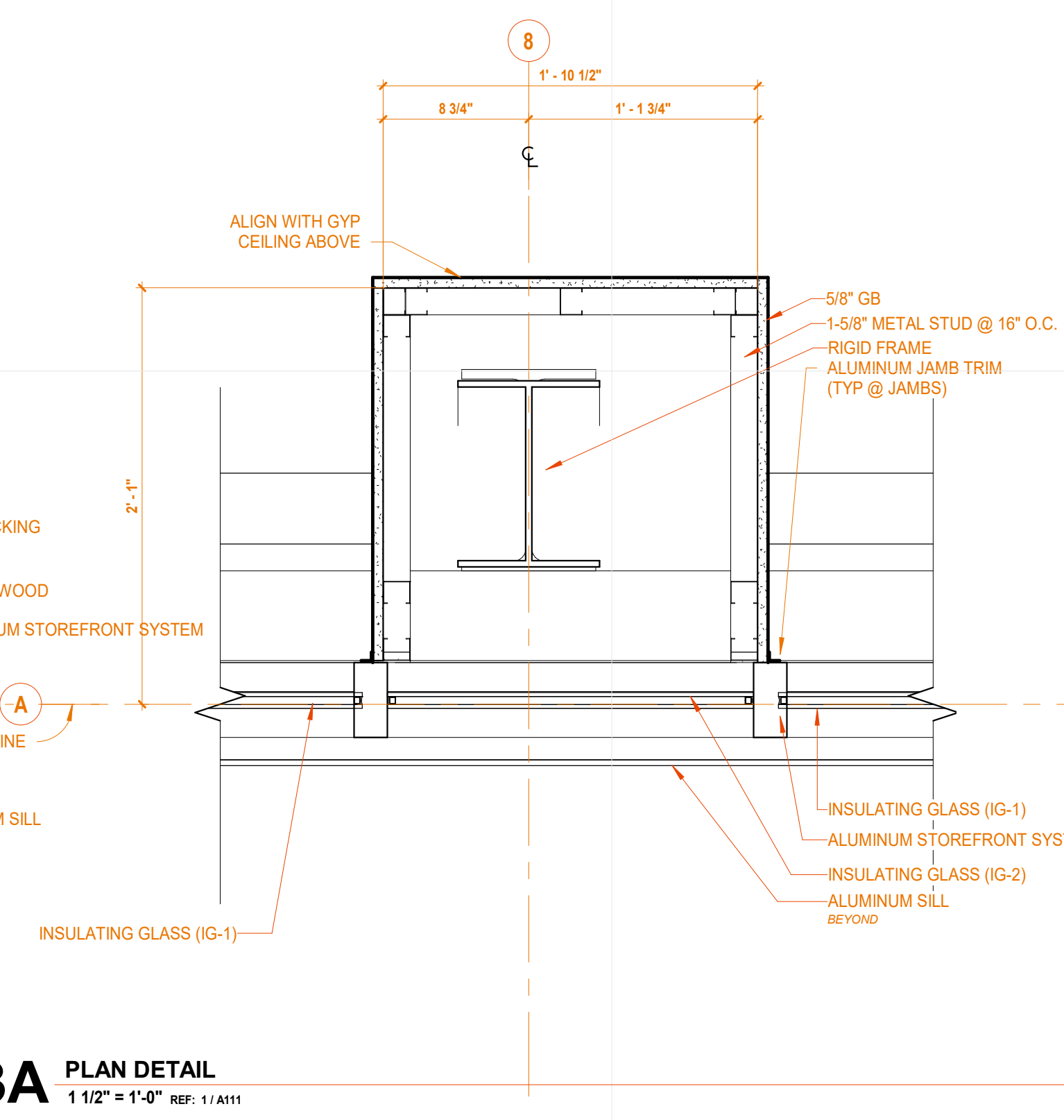
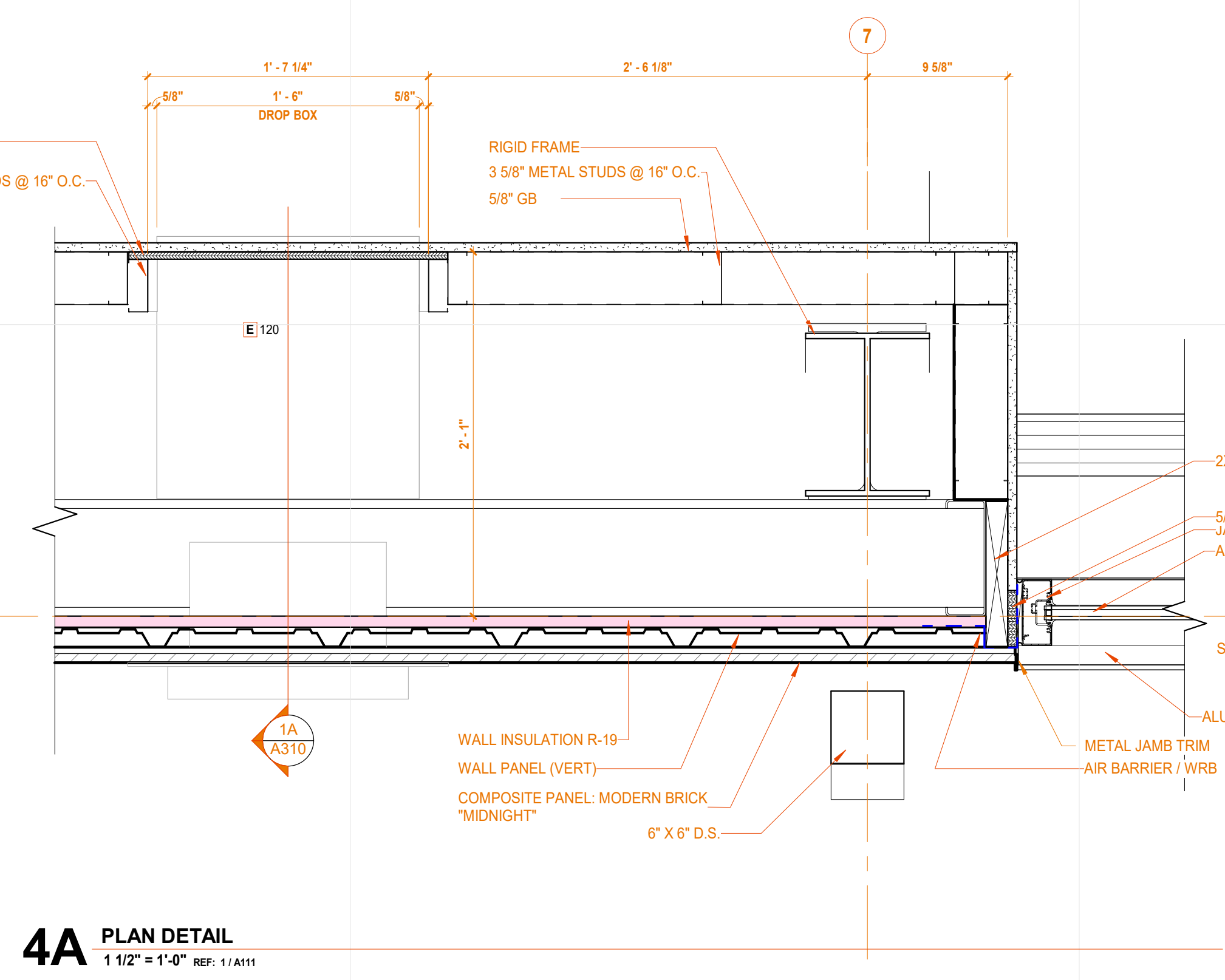
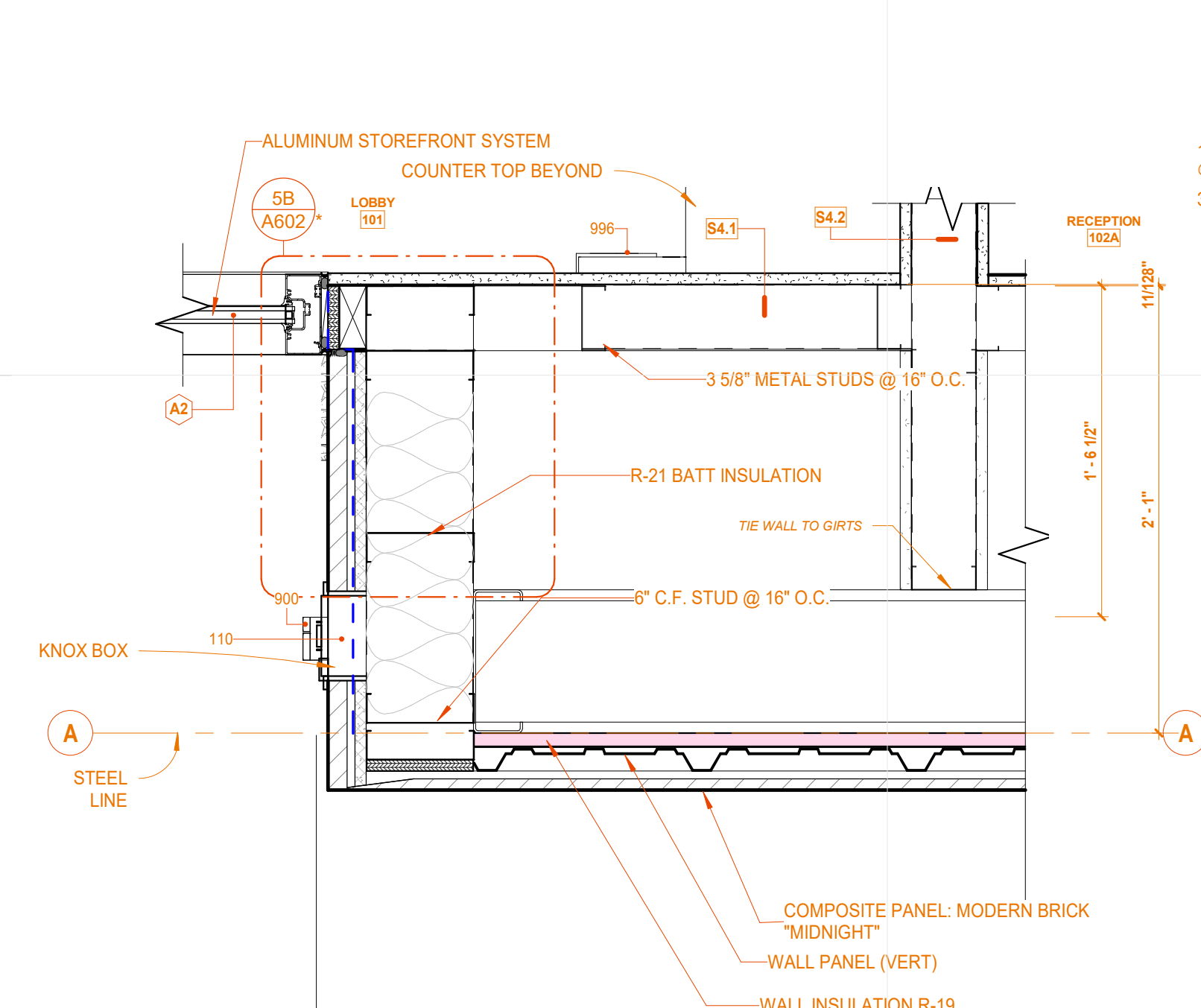
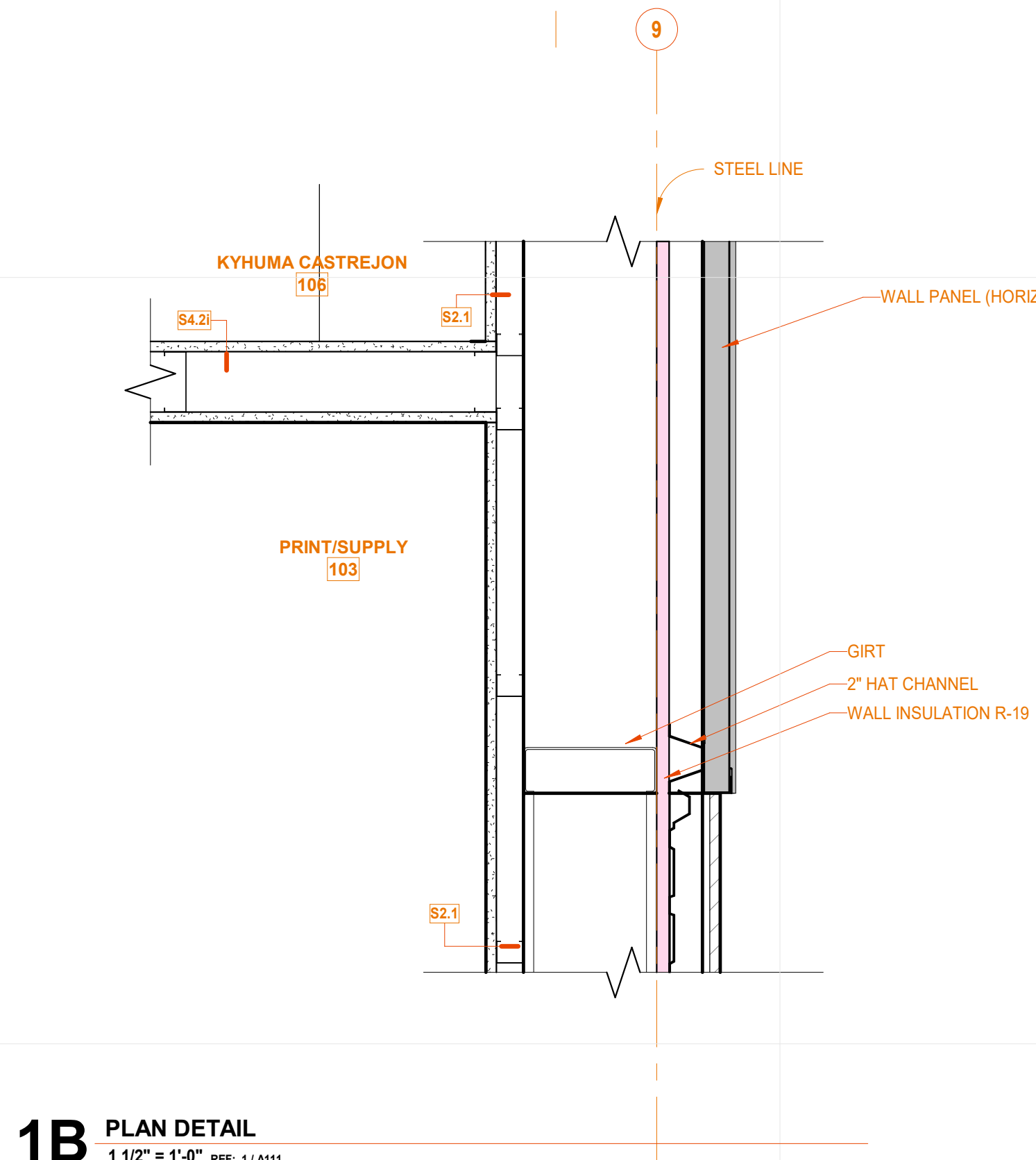
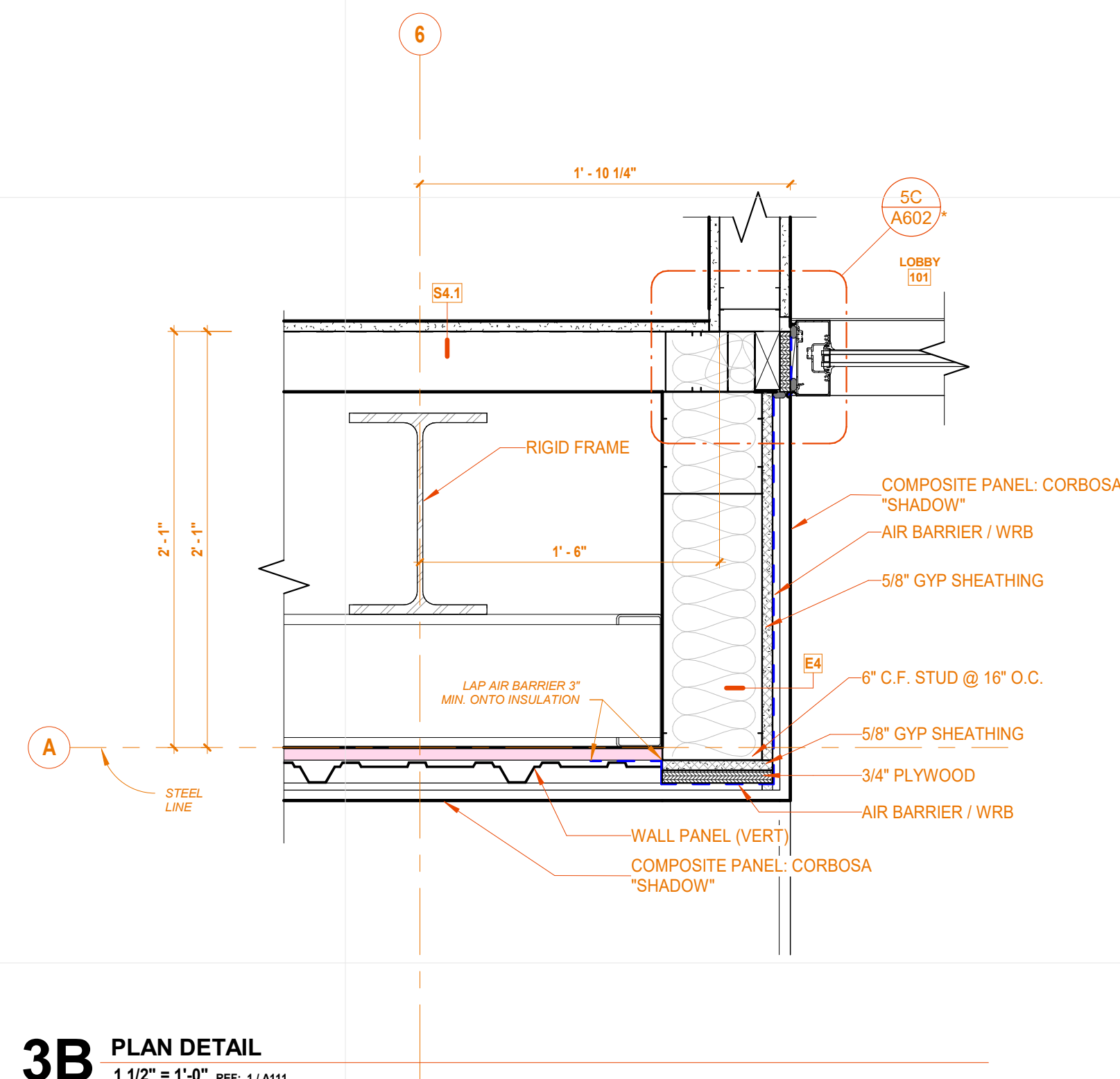
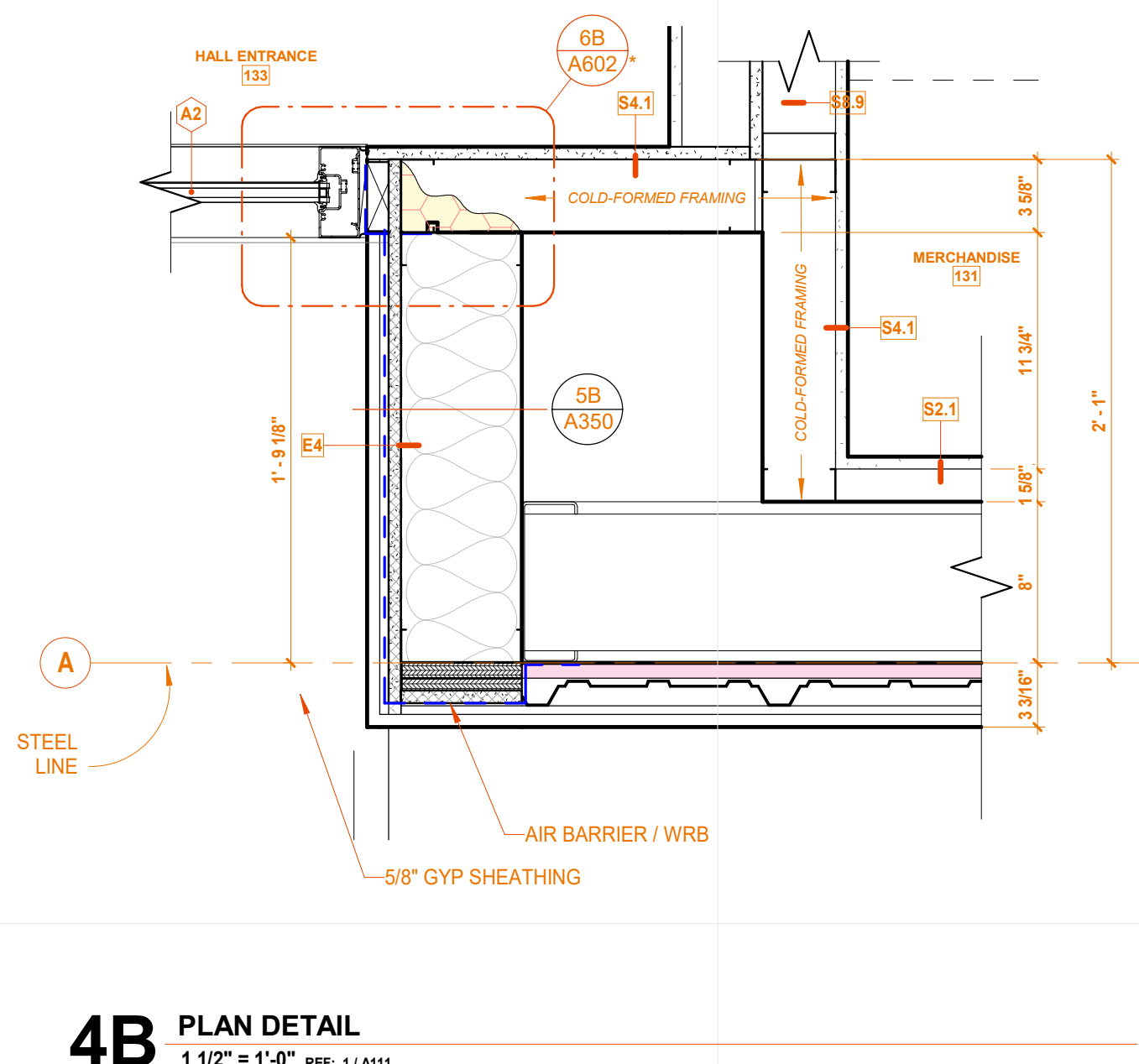
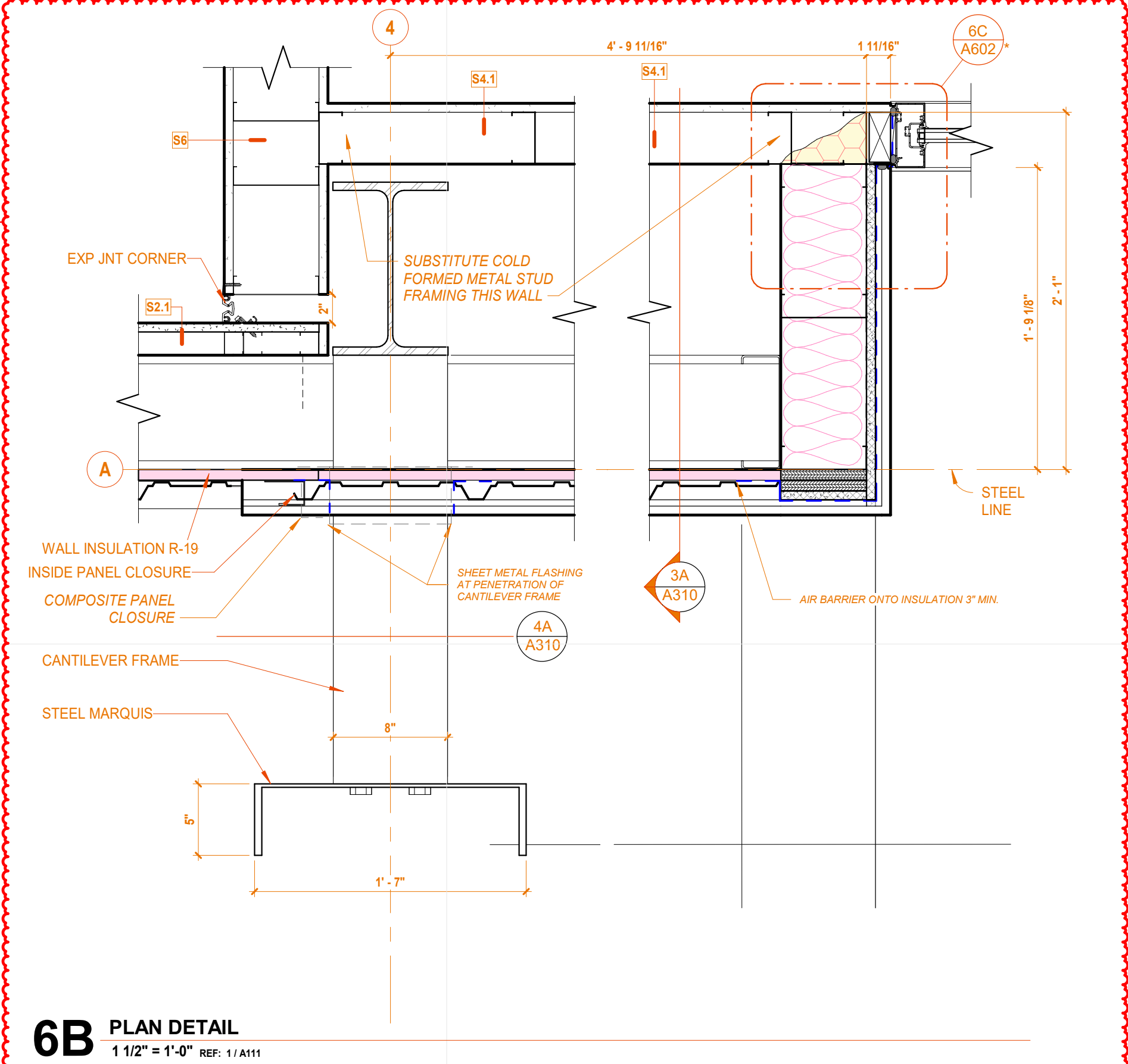
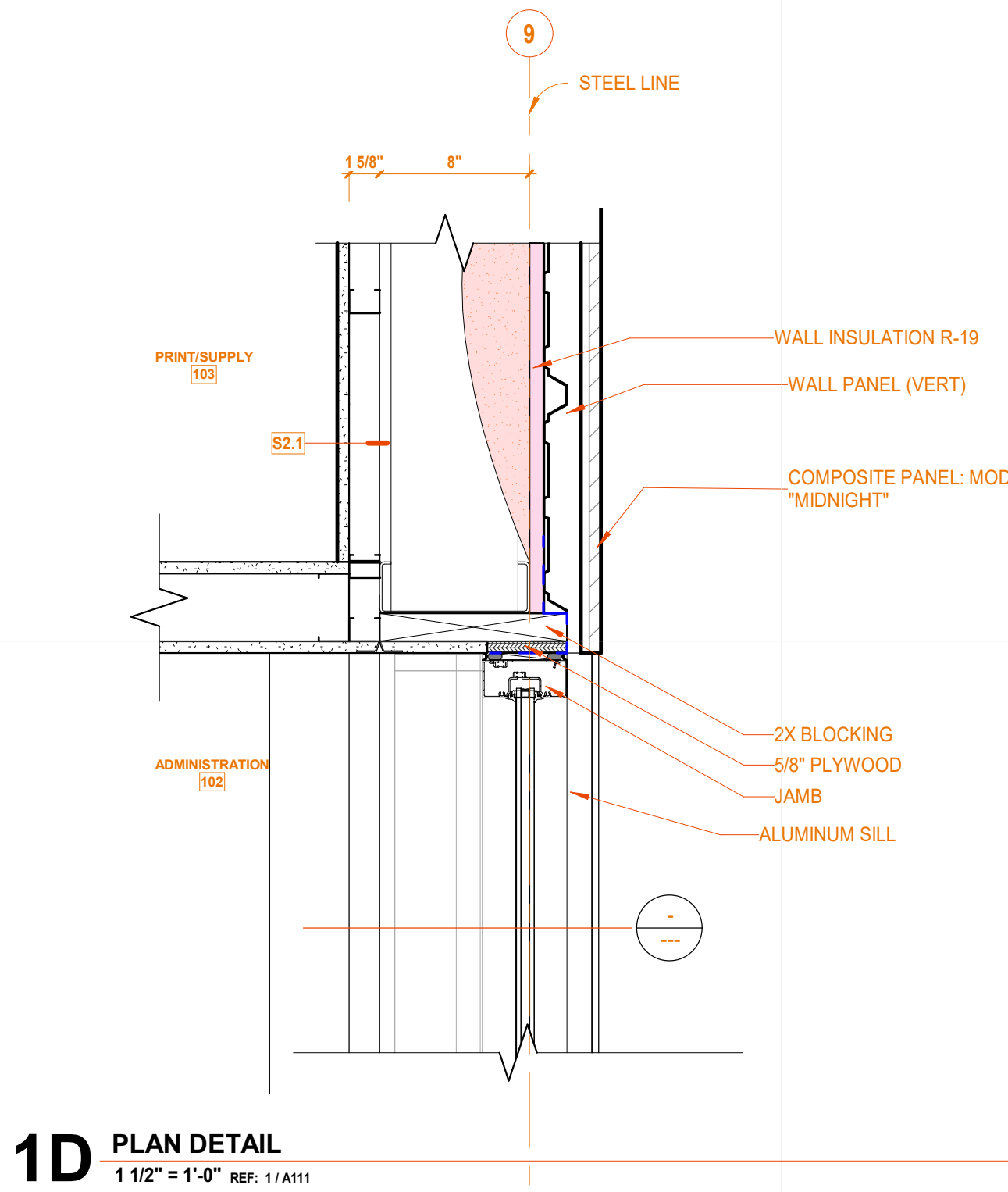
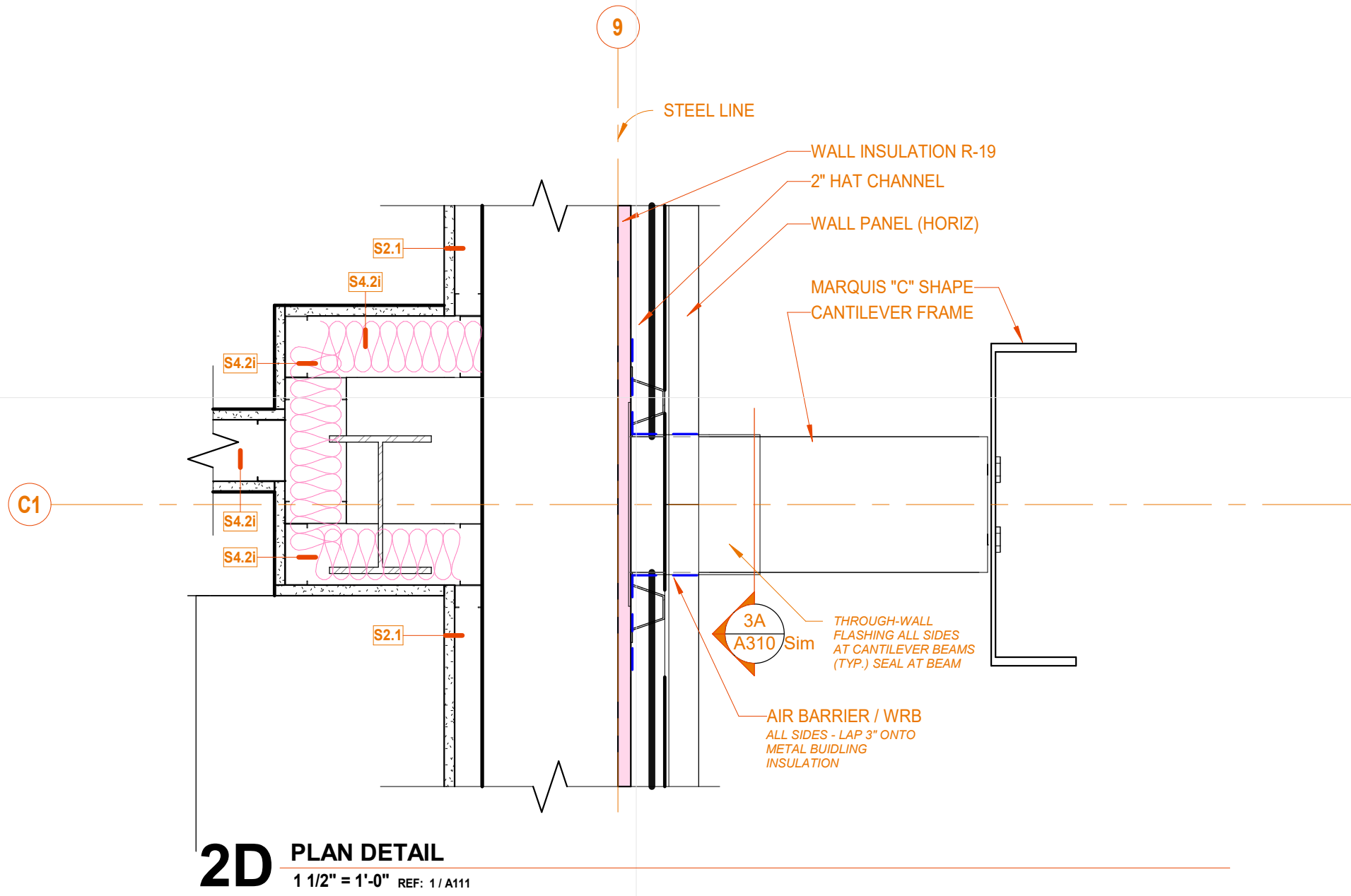
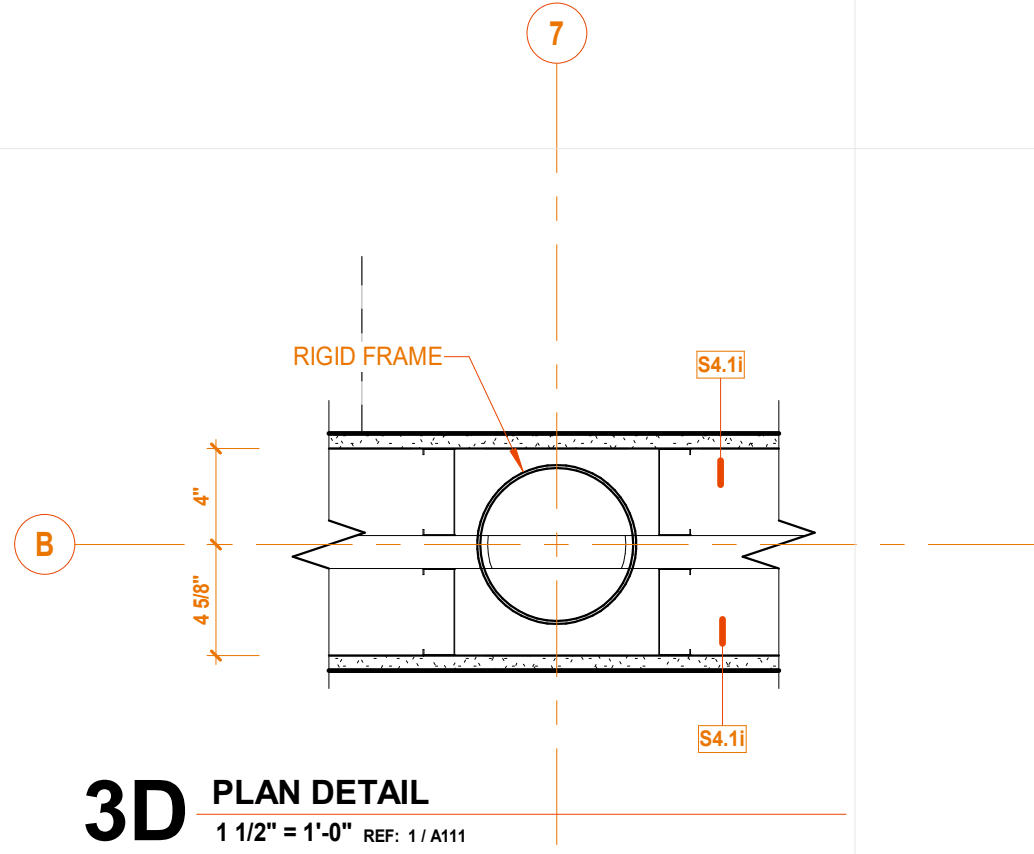
**KEYNOTE LEGEND**

10 21 13 A1	TOILET PARTITION
10 21 13 A2	URINAL SCREEN
10 21 13 A3	DOOR PANEL
12 36 61 A1	



KEYNOTE LEGEND	
05 40 00 S1	1-5/8" METAL STUD @ 16" O.C.
05 40 00 S8	6" C.F. STUD @ 16" O.C.
06 10 53 A1	2X BLOCKING
06 10 53 A6	5/8" PLYWOOD
06 10 53 A7	3/4" PLYWOOD
06 10 53 A8	1/2" PLYWOOD
06 16 00 A3	5/8" GYP SHEATHING
07 21 00 A6	R-21 BATT INSULATION
07 27 13 A0	AIR BARRIER / WRB
07 42 43 B1	COMPOSITE PANEL: CORBOSA "SHADOW"
07 42 43 B2	COMPOSITE PANEL: MODERN BRICK "MIDNIGHT"
07 95 13 A2	EXP. INT CORNER
08 41 13 A1	ALUMINUM STOREFRONT SYSTEM
08 41 13 A10	ALUMINUM SILL
08 41 13 B1	JAMB

KEYNOTE LEGEND	
08 80 00 IG-1	INSULATING GLASS (IG-1)
08 80 00 IG-2	INSULATING GLASS (IG-2)
09 22 16 D3	3 5/8" METAL STUDS @ 16" O.C.
09 29 00 D1	5/8" GB
13 34 19 A2	RIGID FRAME
13 34 19 A5	ENDWALL FRAME
13 34 19 A9	CANTILEVER FRAME
13 34 19 A10	MARQUIS "C" SHAPE
13 34 19 B3	GIRT
13 34 19 B8	2" HAT CHANNEL
13 34 19 B9	STEEL MARQUIS
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C4	WALL PANEL (HORIZ)
13 34 19 C7	INSIDE PANEL CLOSURE
13 34 19 D7	6" X 6" D.S.
13 34 19 E2	WALL INSULATION R-19



arcDESIGN  
architecture + interiors

201 N. Delaware Street, Suite B  
Indianapolis, IN 46204  
317.951.9192 T | 317.951.9194 F  
www.arcdesign.us

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CONSTRUCTION INC

*Andrew J. Hine*

LABORERS' INTERNATIONAL UNION of NORTH AMERICA

LOCAL UNION #120

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INDIANAPOLIS, IN 46254

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*Feel the Power*

PERMIT SET

△ REVISIONS:  
2 01.14.2022 Addendum 2: Bid Set  
3 02.11.2022 Addendum 3: Post Bid VE

DATE:  
02.11.2022

arcDESIGN PROJECT NUMBER:  
21102

DRAWN BY:  
aD

DRAWING TITLE:  
PLAN DETAILS

DRAWING NUMBER:  
A510

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(A) STOREFRONT/CURTAIN WALL SYSTEM SCHEDULE					
TYPE MARK	KEYNOTE	DESCRIPTION	Family and Type	COMMENTS	Heat Transfer Coefficient (U)
A1	08 41 13 A1		Curtain Wall: Storefront - A1 5x5 Punched Opening		
A2	08 41 13 A1		Curtain Wall: Storefront A2 - STOREFRONT AND ENTRANCE		
A3	08 41 13 A1		Curtain Wall: Storefront A3 - STOREFRONT		
A4	08 41 13 A1		Curtain Wall: Storefront A4 - CLERESTORY RIBBON WINDOWS		
A5	08 41 13 A1		Curtain Wall: Storefront - A5 INTERIOR STOREFRONT		

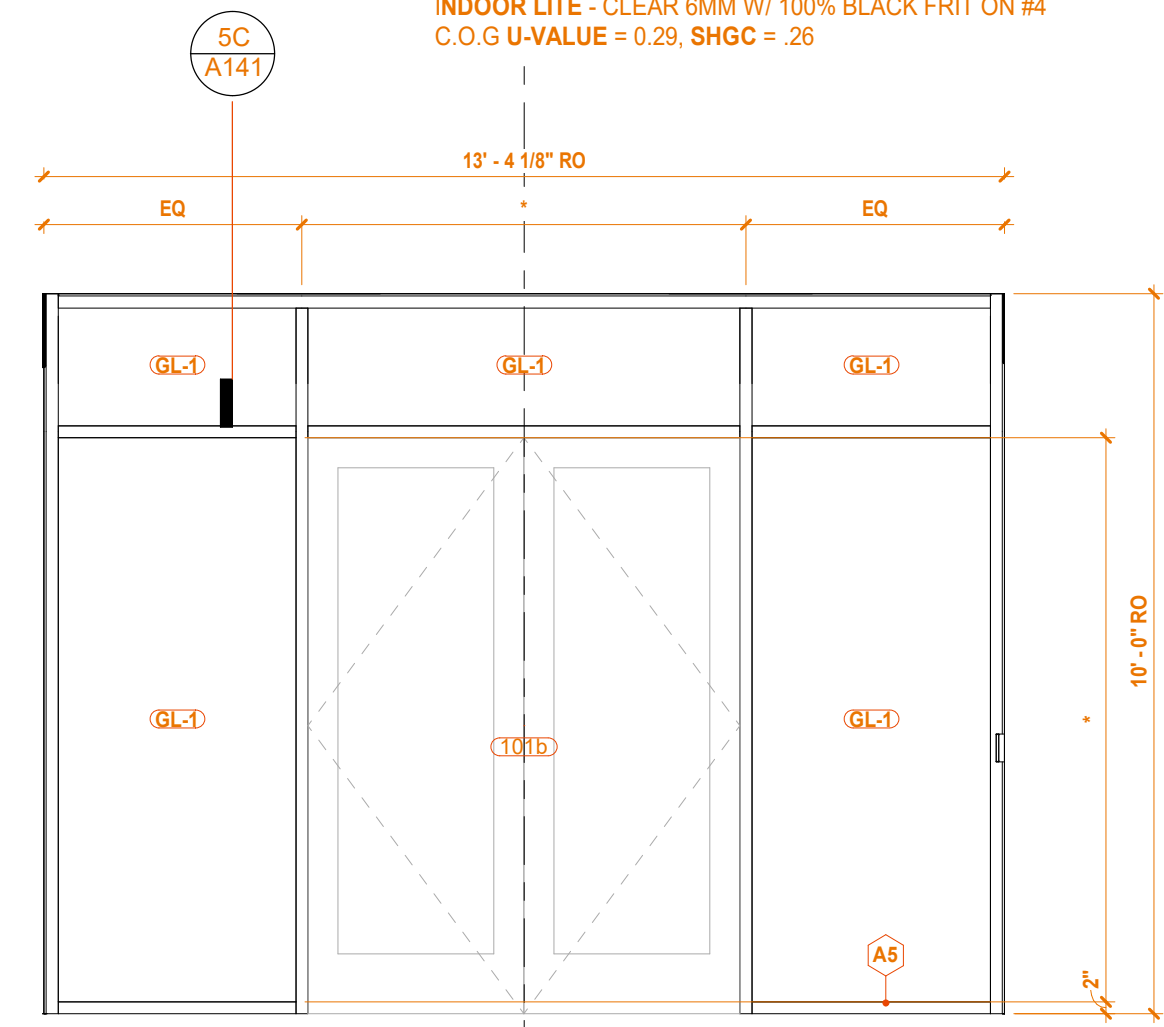
## GLAZING LEGEND

**MG-1**  
1/4 INCH (6MM) CLEAR TEMPERED GLASS

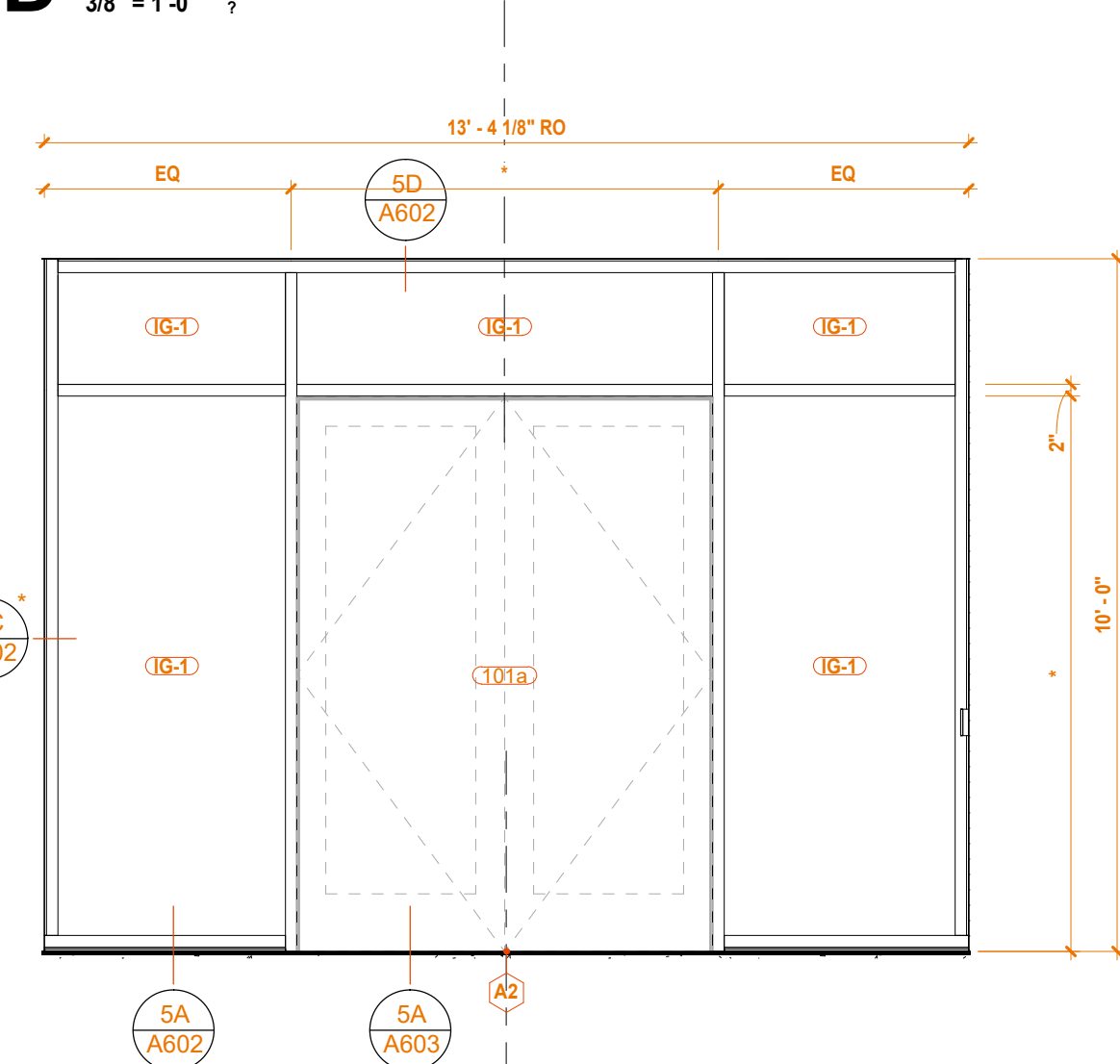
**IG-1**  
1" INSUL VISION GLASS UNIT:  
OUTDOOR LITE - VITRO SOLAR BLUE 6MM W/SOLARBAN 60 ON #2;  
AIRSPACE - 1/2" ARGON-FILLED;  
INDOOR LITE - CLEAR 6MM  
C.O.G U-VALUE = 0.29, SHGC = .29

**MG-2**  
5/16 INCH CLEAR LAMINATED SAFETY GLASS

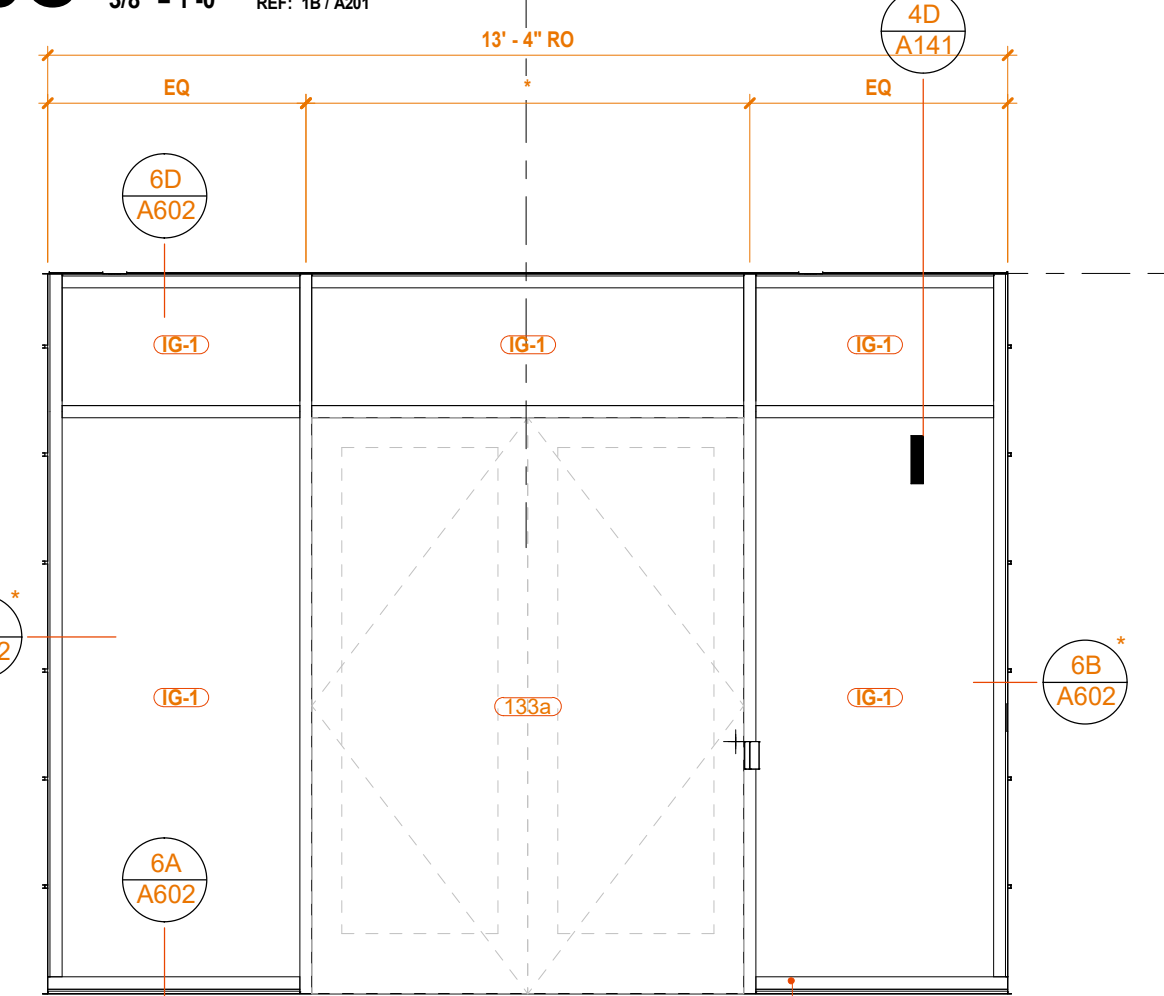
**IG-2**  
1" INSUL SPANDREL GLASS UNIT: COLOR / TINT  
OUTDOOR LITE - VITRO SOLAR BLUE 6MM W/SOLARBAN 60 ON #2;  
AIRSPACE - 1/2" ARGON-FILLED;  
INDOOR LITE - CLEAR 6MM W/ 100% BLACK FRIT ON #4  
C.O.G U-VALUE = 0.29, SHGC = .26



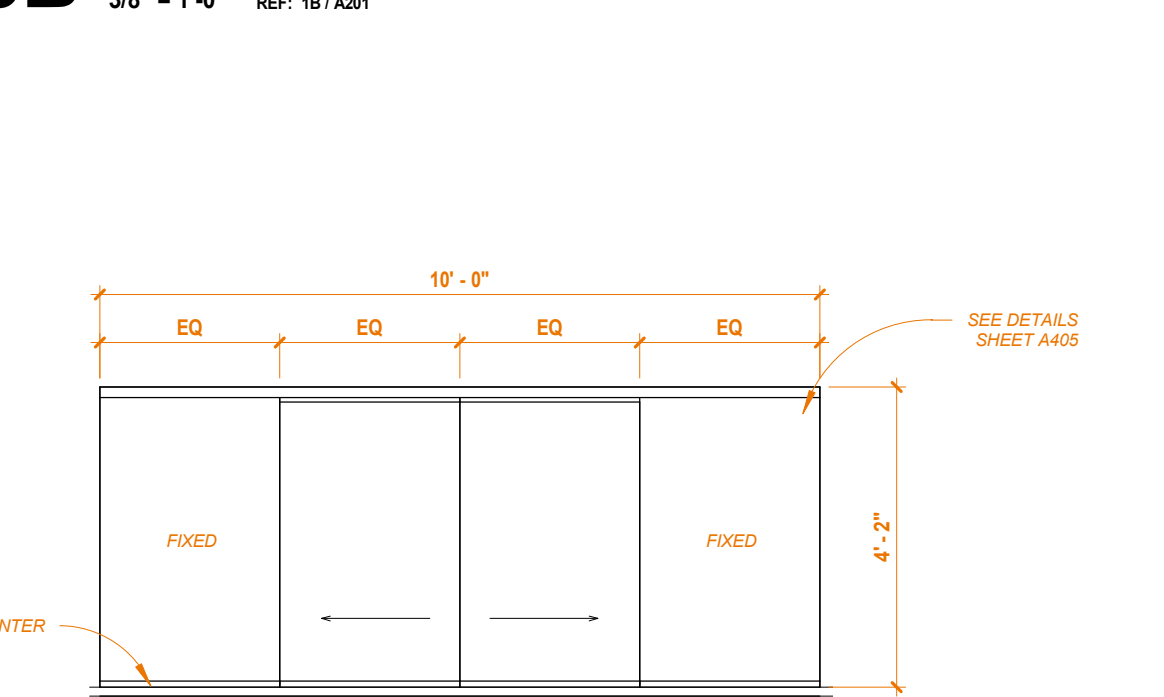
6D STOREFRONT A5 - INTERIOR



6C STOREFRONT ENTRANCE A2 EAST



6B STOREFRONT ENTRANCE A2 WEST



6A PASS-THROUGH WINDOW - LOBBY 101



5A HEAD DETAIL



4A JAMB DETAIL



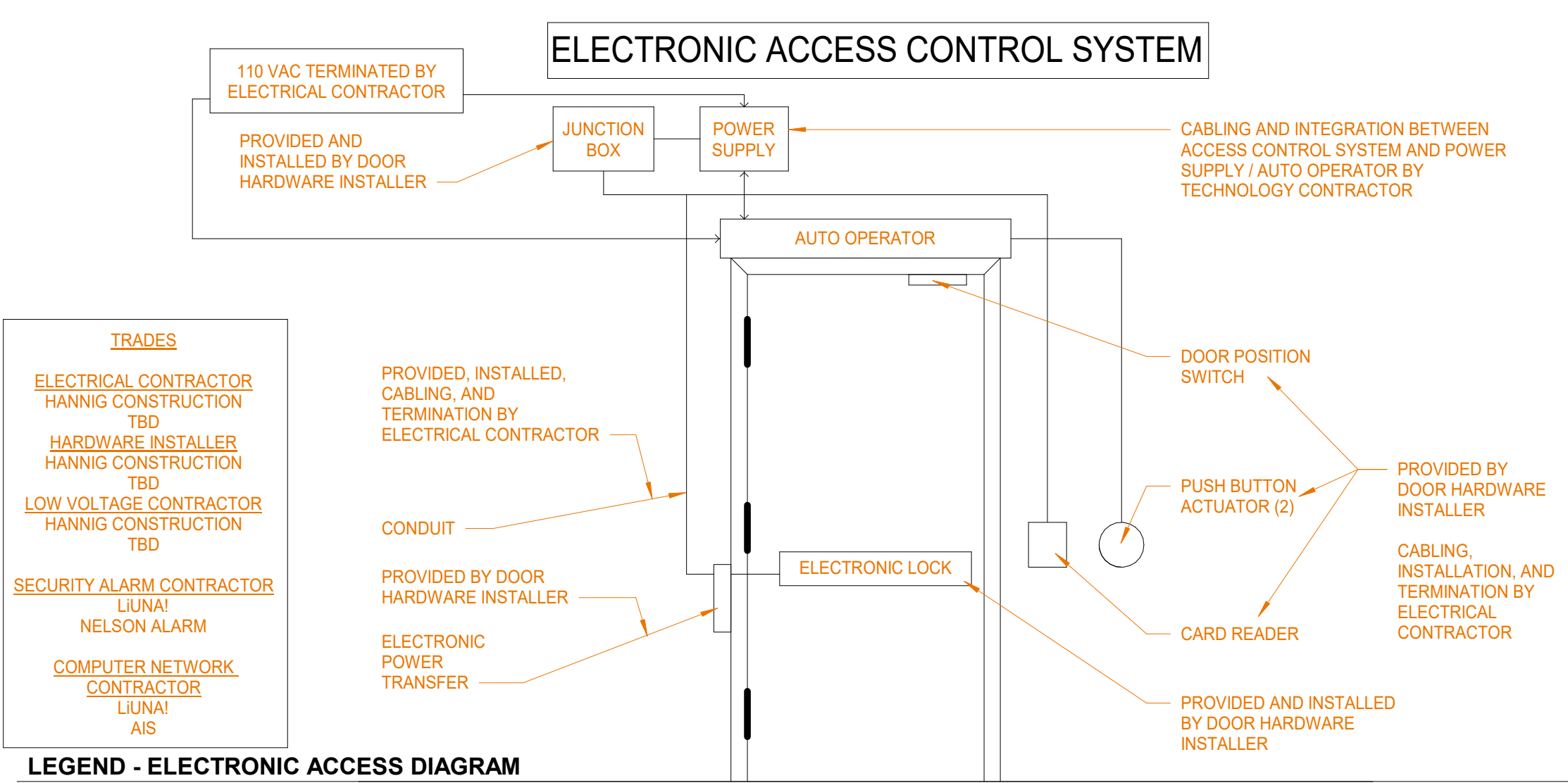
3A OPENING 135c



2A OPENINGS 135a AND 135b



1A OPENING 006



LEGEND - ELECTRONIC ACCESS DIAGRAM

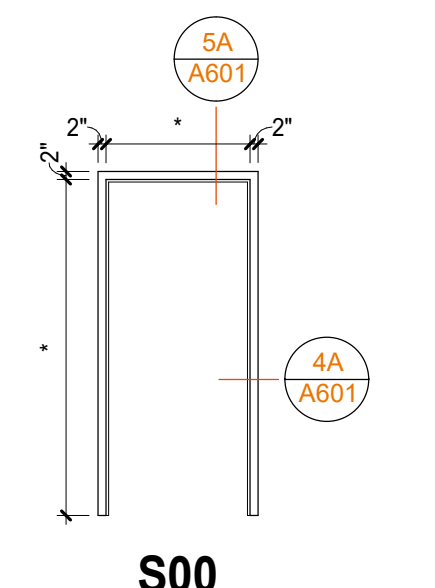
## COMMENTS: DOOR ACCESS CONTROL

1. PROVIDE CONCEALED DOOR POSITION SWITCH AT EACH LEAF IN OPENING WHERE ELECTRONIC ACCESS CONTROL IS INDICATED. ROUTE LOW-VOLTAGE WIRING TO JUNCTION BOX ABOVE DOOR.
2. PROVIDE CONDUIT WITH PULL STRING,ROUGH-IN, AND COVER PLATE FOR PROXIMITY CARD READER FOR ADJACENT DOOR.
3. PROVIDE ELECTRIFIED LOCKSET AND OR LATCH RETRACTION ON EXIT DEVICE AND OR LATCHSET. REFERENCE HARDWARE SETS. ROUTE LOW-VOLTAGE WIRING TO JUNCTION BOX ABOVE DOOR.

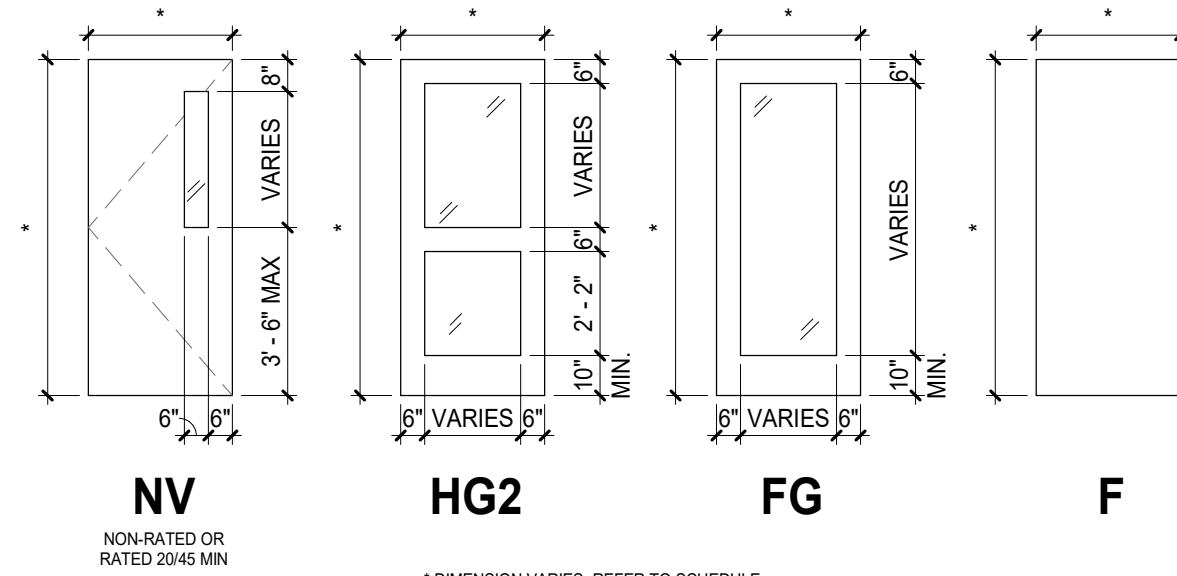
DOOR SCHEDULE													
NO.	LOCATION		DOOR			FRAME		FIRE RATING	HARDWARE SET	VOLTAGE	REMARKS		
	FROM	TO	W	H	MATL	PANEL	GLAZING						
001a	UNION HALL	PASSAGE	6'-0"	7'-0"	WD	NV / NV	MG-1	S00	HM	06	EAC	1	
002	PASSAGE	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	16	EAC	1	
004	PASSAGE	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	16	EAC	1	
006	PASSAGE	PASSAGE	6'-0"	8'-0"	HM	NV / NV	IG-1	S00	HM	03	EAC	1, 2, 5	
101a	LOBBY	LOBBY	6'-0"	8'-0 1/4"	AL	AL2	IG-1	--	AL	01	EAC	1	
101b	PASSAGE	PASSAGE	6'-0"	8'-0"	AL	AL2	MG-1	--	AL	04	EAC	1	
105	PASSAGE	KYHUMA CASTREJON	3'-0"	7'-0"	WD	NV	F	S00	HM	10	EAC	1	
106	PASSAGE	JESSE SUAREZ	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
107	PASSAGE	BILLY FLETCHER	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
108	PASSAGE	MARTY CORPUZ	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
109	PASSAGE	KENDRICK COLEMAN	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
110	PASSAGE	WARD DANIELS	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
111	PASSAGE	CHRIS BRICKEY	3'-0"	7'-0"	WD	NV	F	S00	HM	10			
112	PASSAGE	MEN	3'-0"	7'-0"	WD	F	F	S00	HM	09			
114	PASSAGE	WOMEN	3'-0"	7'-0"	WD	F	F	S00	HM	09			
115	PASSAGE	JANITOR	3'-0"	7'-0"	WD	F	F	S00	HM	25			
116	PASSAGE	OFFICE SUPPLY	3'-0"	7'-0"	WD	F	F	S00	HM	13			
118	PASSAGE	DATA / MDF	3'-0"	7'-0"	WD	F	F	S00	HM	11	EAC	1	
119a	LG CONF	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	11	EAC	1	
119b	LG CONF	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	13			
119c	LG CONF	WORK ROOM	3'-0"	7'-0"	WD	NV	F	S00	HM	13			
120a	TRAINING ROOM	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	17	EAC	1	
120b	TRAINING ROOM	PASSAGE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	17	EAC	1	
120c	TRAINING ROOM	TRAINING ROOM	6'-0"	7'-0"	WD	F / F	F	S00	HM	21			
121	PASSAGE	ARCHIVE STORAGE	3'-0"	7'-0"	WD	F	F	S00	HM	19			
122	PASSAGE	GENERAL STORAGE	3'-0"	7'-0"	WD	F	F	S00	HM	24			
123	MECHANICAL	PASSAGE	6'-0"	7'-0"	HM	F / F	F	S00	HM	22			4
124	ELECTRICAL	PASSAGE	3'-0"	7'-0"	HM	F	F	S00	HM	18			4
125a	WARMING KITCHEN	KITCHEN STORAGE	3'-0"	7'-0"	WD	F	F	S00	HM	13			
125b	WARMING KITCHEN	PASSAGE	4'-0"	7'-0"	WD	F1: F 2: F1: F 2: 1'-0" LEAF	F	S00	HM	21			
125c	WARMING KITCHEN	UNION HALL	3'-0"	7'-0"	WD	NV	F	S00	HM	15			
126	WARMING KITCHEN	UNION HALL	12'-0"	5'-0"	ST	SS	SS	S00	SS	26			OHCD
127	EVENT STORAGE	UNION HALL	6'-0"	7'-0"	HM	F / F	F	S00	HM	20			
128	MEN	PASSAGE	3'-0"	7'-0"	WD	F	F	S00	HM	09			
129	WOMEN	PASSAGE	3'-0"	7'-0"	WD	F	F	S00	HM	09			
130	PASSAGE	FAMILY	3'-0"	7'-0"	WD	F	F	S00	HM	08			
131	PASSAGE	SM CONF	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	11	EAC	1	
131a	PASSAGE	MERCHANDISE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	12	EAC	1	
131b	MERCHANDISE	PASSAGE	6'-0"	5'-0"	ST	SS	SS	S00	SS	26			OHCD
132	CHECK IN	MERCHANDISE	3'-0"	7'-0"	WD	NV	MG-1	S00	HM	14			
133a	HALL ENTRANCE	HALL ENTRANCE	6'-0"	8'-0"	AL	AL2	IG-1	--	AL	02	EAC	1	
133b	UNION HALL	HALL ENTRANCE	6'-0"	7'-0"	WD	NV / NV	MG-1	S00	HM	06			
134	JANITOR	UNION HALL	6'-0"	7'-0"	WD	F / F	F	S00	HM	23			
135a	UNION HALL		6'-0"	8'-0"	HM	F / F	F	S00	HM	07			
135b	UNION HALL		6'-0"	8'-0"	HM	F / F	F	S00	HM	07			
135c	UNION HALL		0"	0"	ST	SS	SS	S00	SS	26			OHSD
136a	STORAGE	UNION HALL	6'-0"	7'-0"	WD	F / F	F	S00	HM	20			
136b	STORAGE	UNION HALL	6'-0"	7'-0"	WD	F / F	F	S00	HM	20			
137a	STORAGE	UNION HALL	6'-0"	7'-0"	WD	F / F	F	S00	HM	20			
137b	STORAGE	UNION HALL	6'-0"	7'-0"	WD	F / F	F	S00	HM	20			
138	STORAGE	UNION HALL	3'-0"	7'-0"	WD	F	F	S00	HM	13			

DOOR SCHEDULE REMARKS	
KEY	REMARK
1	ELECTRONIC ACCESS CONTROL
2	DOOR POSITION DETECTOR / SECURITY ALARM DEVICE
3	ADA POWER DOOR OPERATOR
4	PAINT DOOR (MATCH FRAME) - REFERENCE FINISH SCHEDULE
5	PAINT DOOR INTERIOR (MATCH FRAME), PAINT DOOR EXTERIOR (MATCH EXTERIOR METAL PANEL COLOR)
6	FRAME ONLY - NO DOOR LEAF
7	NOT USED
8	NOT USED
9	NOT USED
10	NOT USED
11	NOT USED
12	NOT USED
13	NOT USED
14	NOT USED
15	NOT USED
16	NOT USED

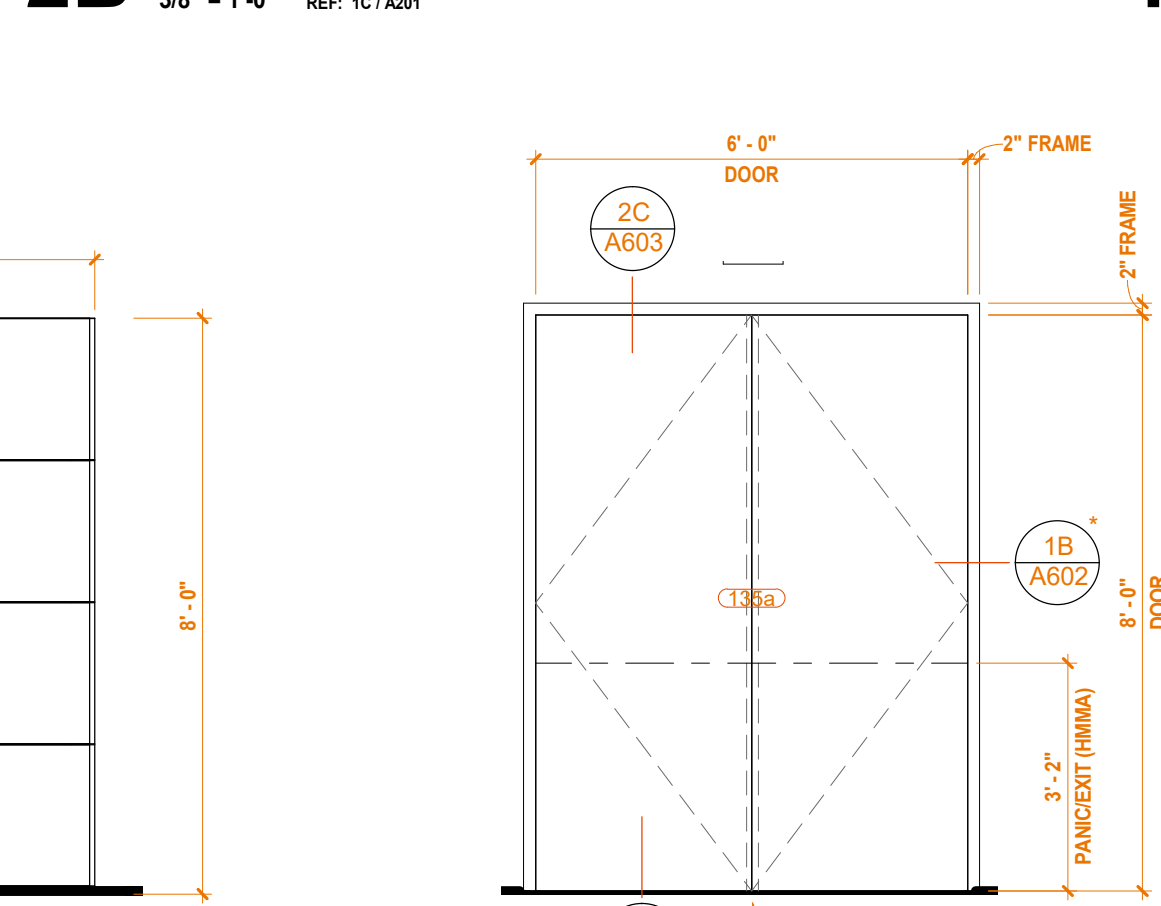
DOOR SCHEDULE LEGEND	
ABBREVIATION	DESCRIPTION
AL	ALUMINUM
HM	HOLLOW METAL
SS	STAINLESS STEEL
ST	STEEL
TG	TEMPERED GLAZING
WD	WOOD (SOLID CORE)
OHCD	OVERHEAD COILING DOOR
OHSD	OVERHEAD SECTIONAL DOOR



1C INTERIOR FRAME TYPE



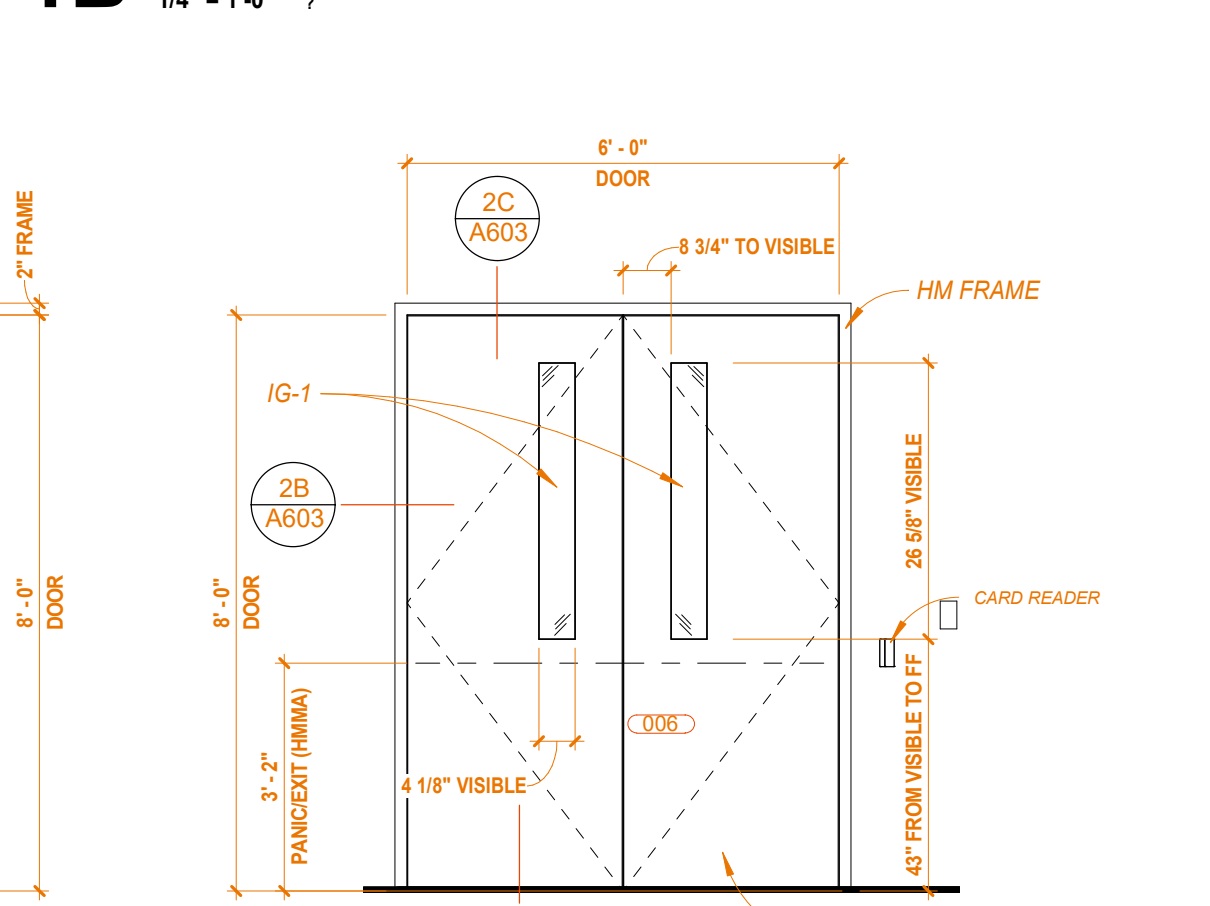
2B STOREFRONT A3 EAST



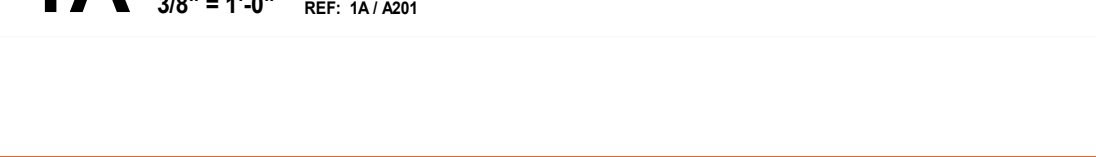
2A OPENINGS 135a AND 135b



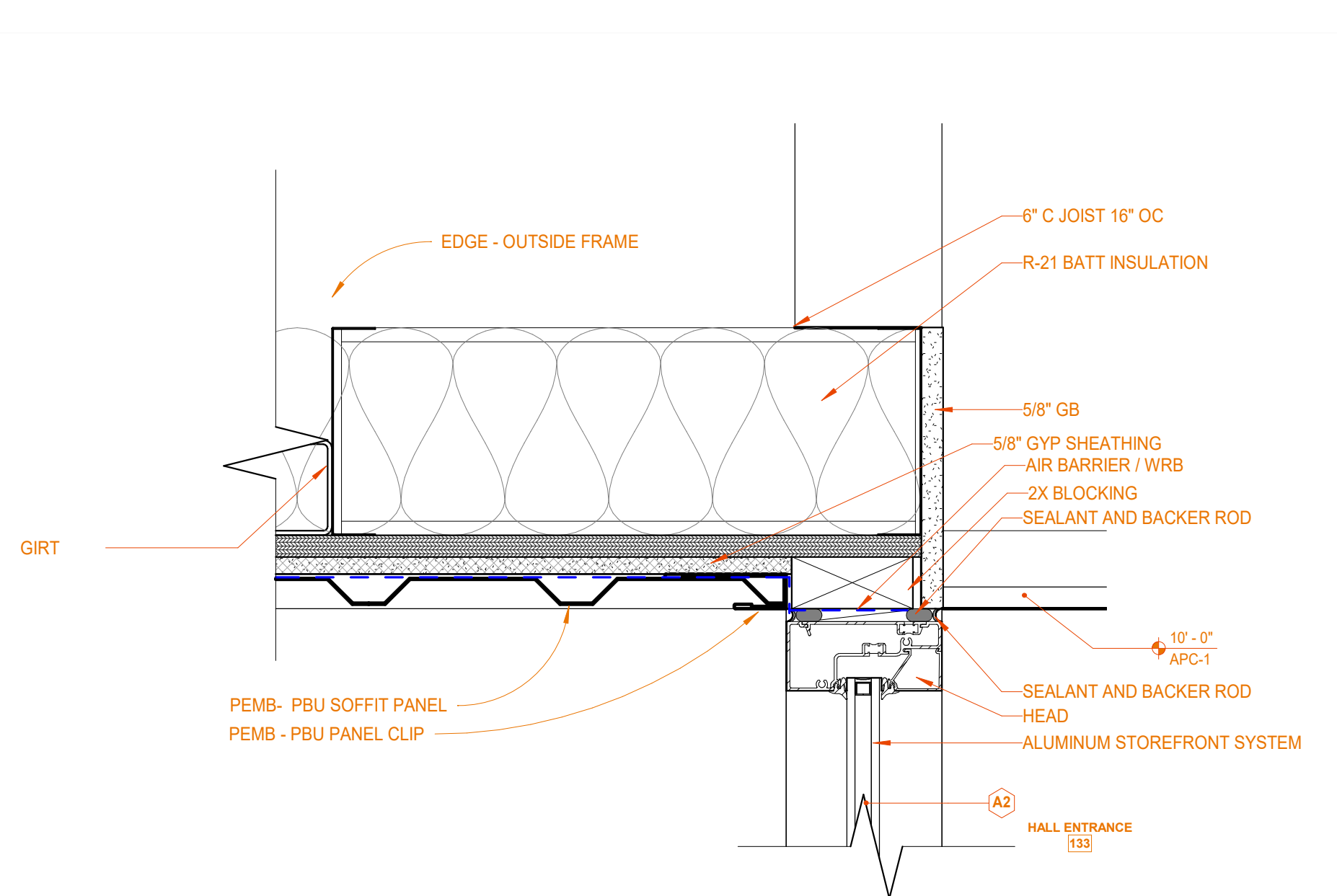
1B DOOR LEAF TYPES



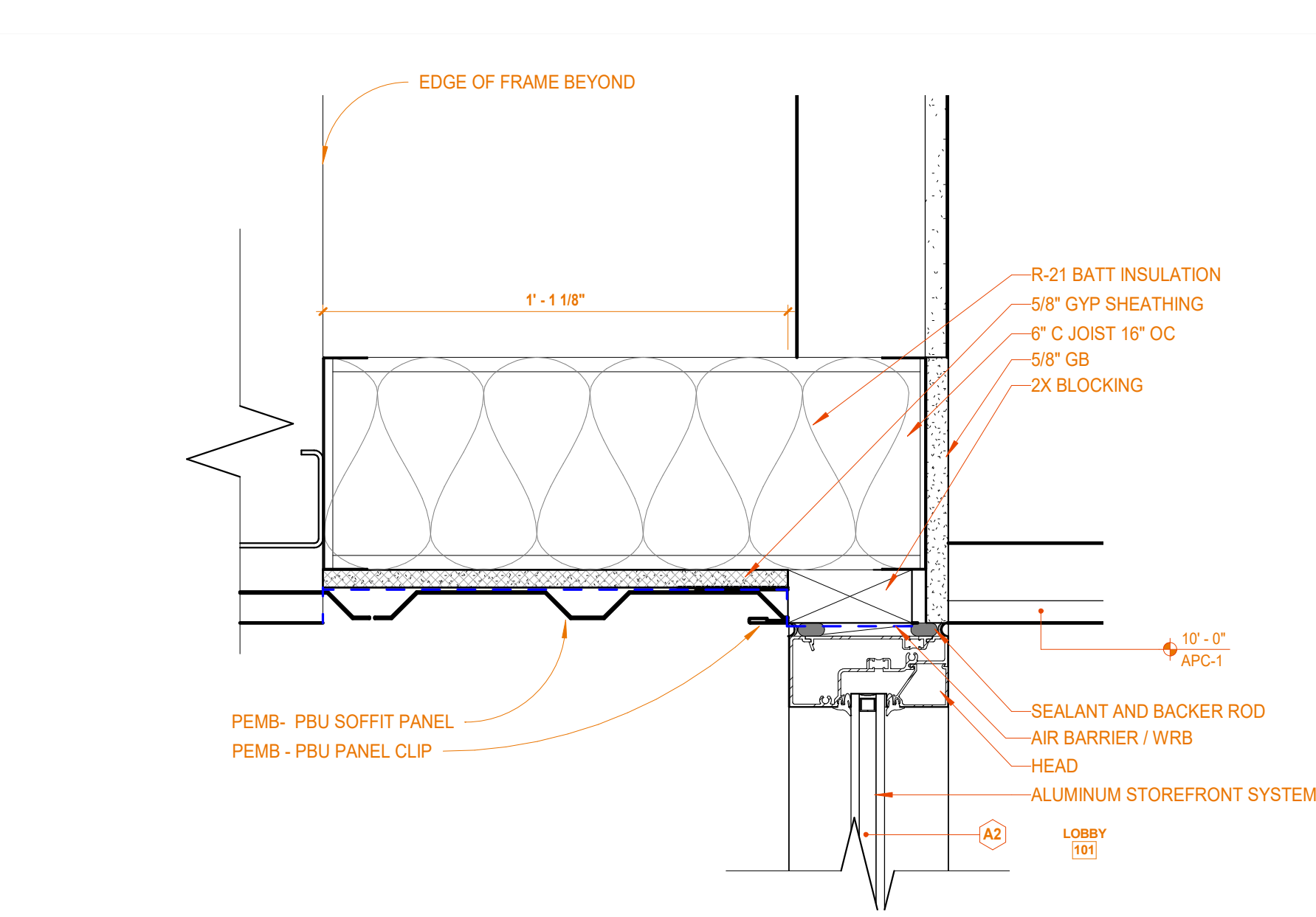
1A OPENING 006



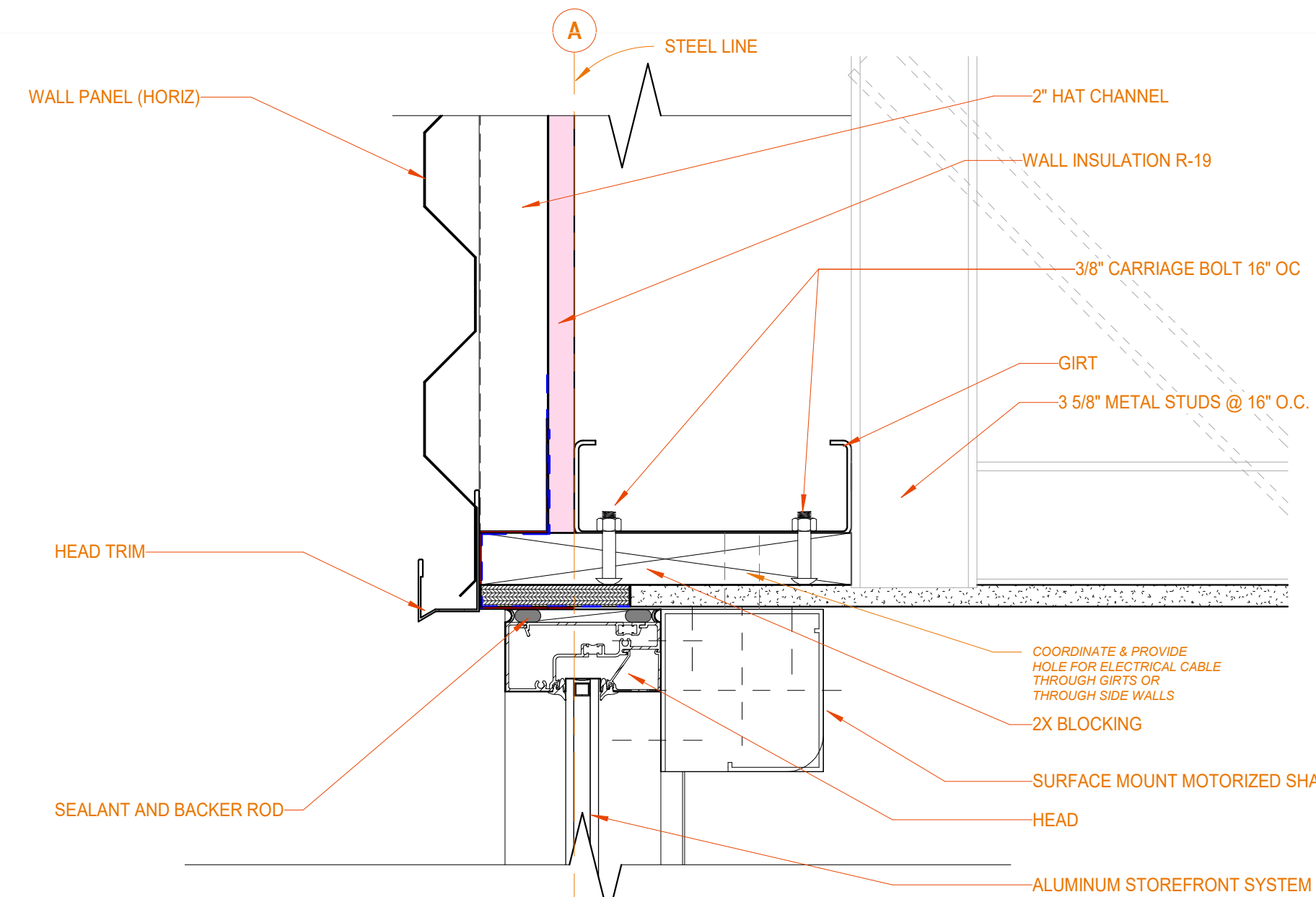




**6D HEAD - A2 WEST @ EYEBROW**  
3\"/>



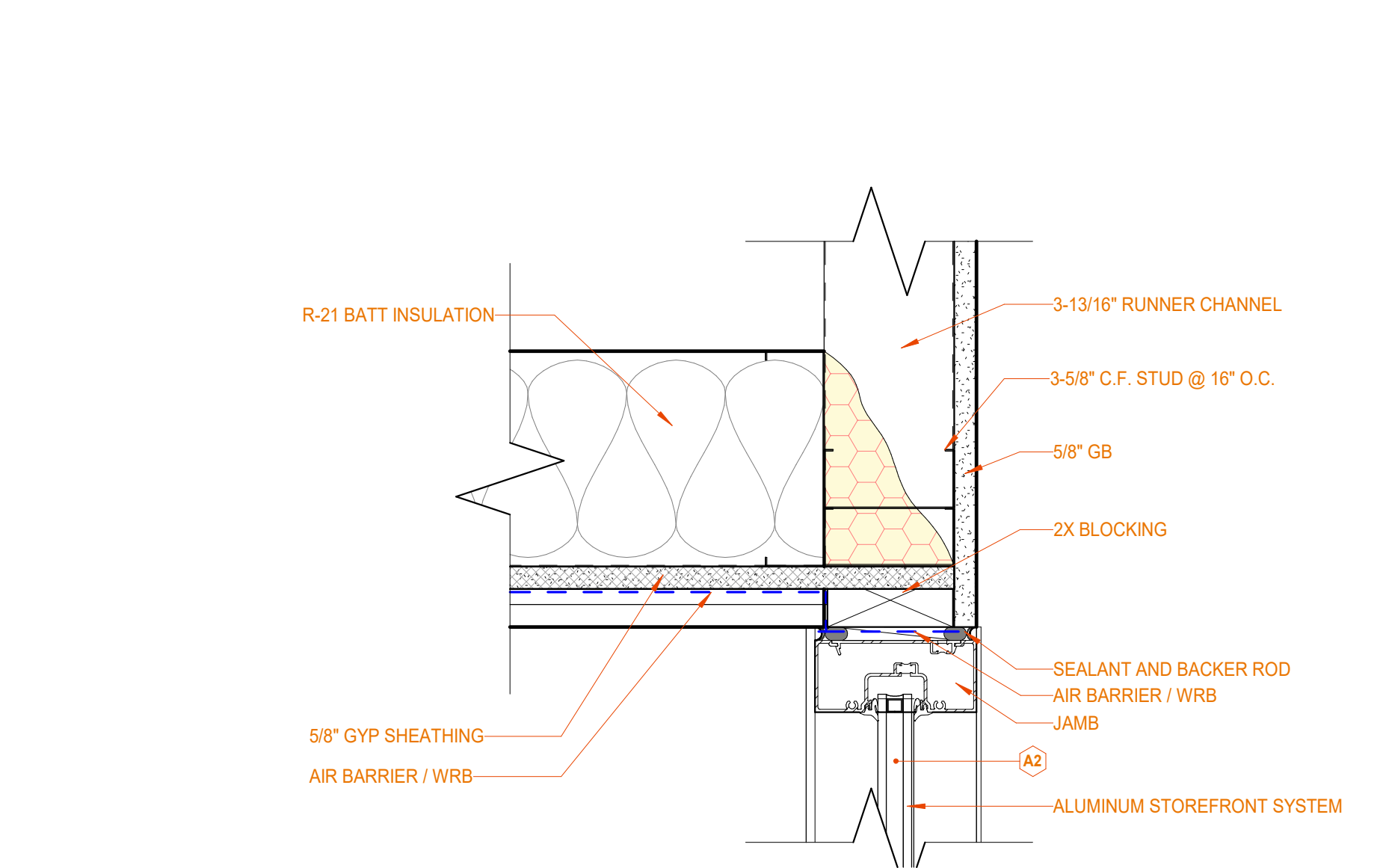
**5D HEAD - A2 EAST @ EYEBROW**  
3\"/>



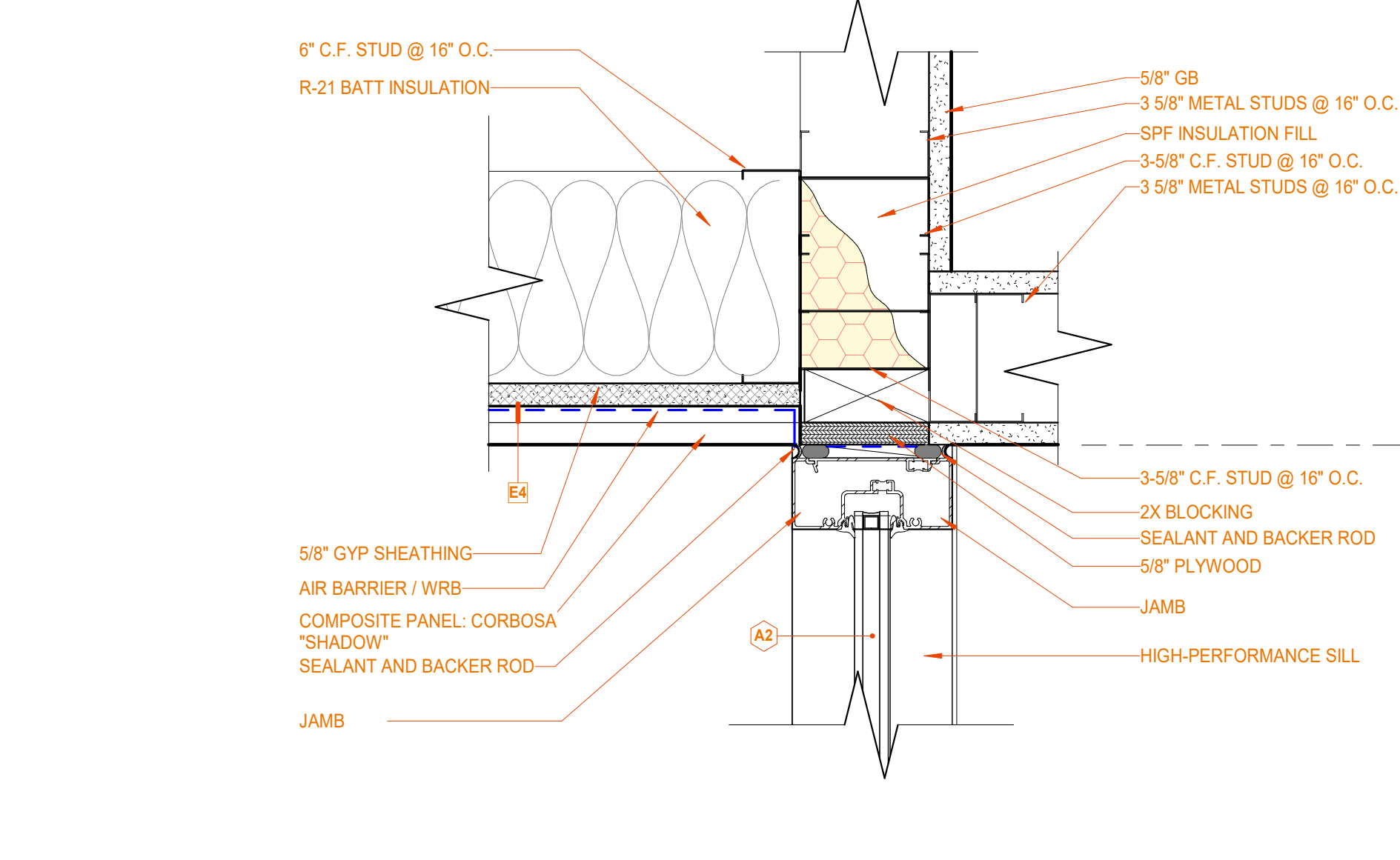
**2D HEAD - STOREFRONT A3 @ EYEBROW**  
3\"/>

KEYNOTE LEGEND	
03 30 00 A0	ISO G.O. REF. S-SERIES
03 30 00 A6	ISO JNT. REF. S-SERIES
05 40 00 E2	3-13/16\"/>
05 40 00 S1	1-5/8\"/>
05 40 00 S5	3-5/8\"/>
05 40 00 S8	6\"/>
05 42 00 A2	6\"/>
06 10 53 A1	2X BLOCKING
06 10 53 A6	5/8\"/>
06 10 53 B1	3/8\"/>
06 16 00 A3	5/8\"/>
07 21 00 A6	R-21 BATT INSULATION
07 27 13 A0	SPF INSULATION FILL
07 42 43 A0	AIR BARRIER / WRB
07 42 43 A4	ULTIMATE CLIP
07 42 43 B1	CORRUGATED SPACER
07 42 43 B1	COMPOSITE PANEL: CORBOSA "SHADOW"
07 42 43 B2	COMPOSITE PANEL: MODERN BRICK "MIDNIGHT"
07 62 00 A1	END WALL FLASHING
07 92 00 A1	SEALANT
07 92 00 A4	POURABLE SEALANT
08 41 13 A1	ALUMINUM STOREFRONT SYSTEM
08 41 13 A7	SEALANT AND BACKER ROD
08 41 13 A10	ALUMINUM SILL
08 41 13 A11	CUSTOM AL. STOOL
08 41 13 B1	JAMB

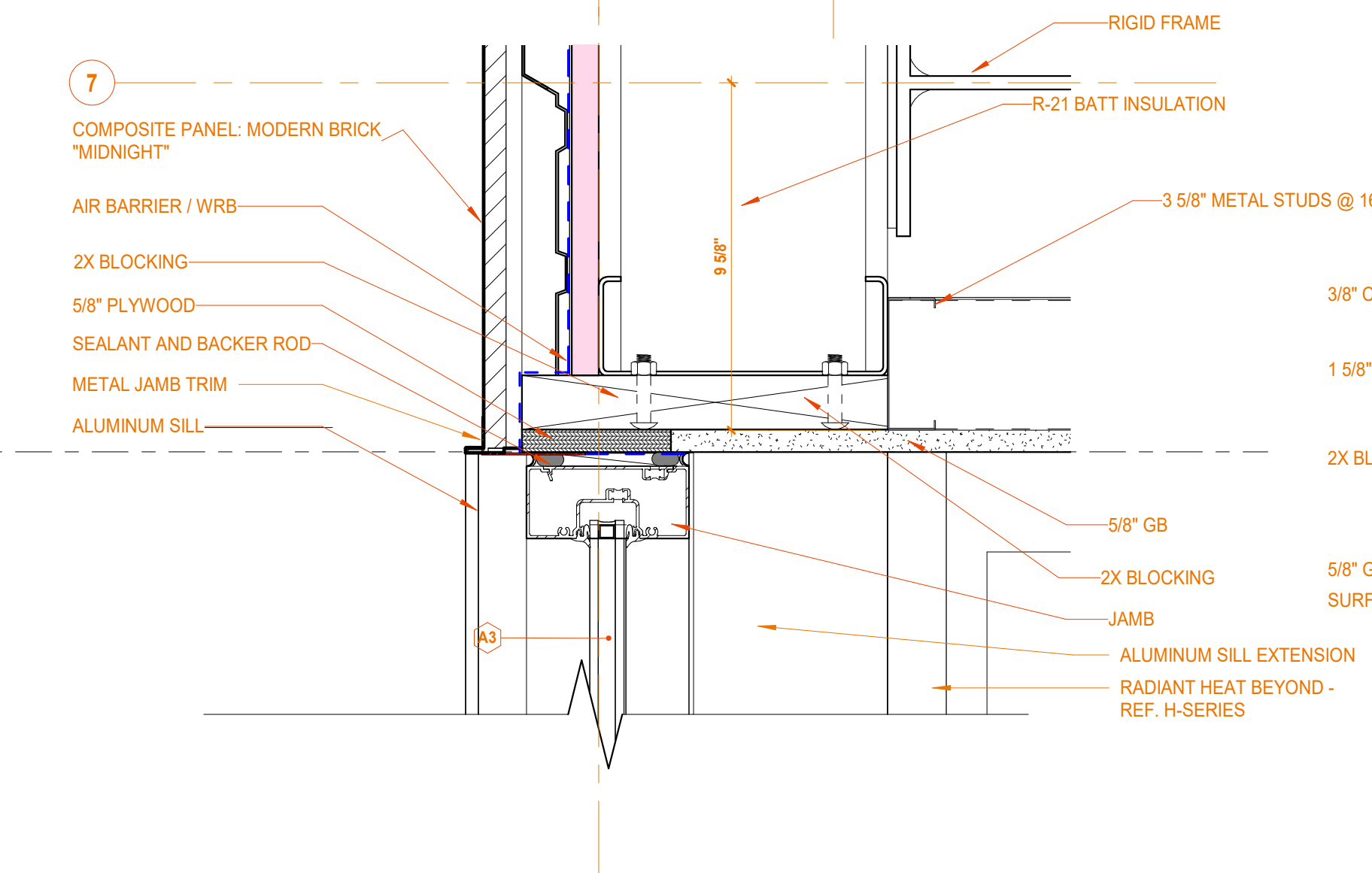
KEYNOTE LEGEND	
08 41 13 B3	HIGH-PERFORMANCE SILL
08 41 13 B4	HEAD
08 80	INSULATING GLASS (IG-2)
00 10-2	1-5/8\"/>
09 22 16 A3	1-5/8\"/>
09 22 16 D3	3-5/8\"/>
09 29 00 D1	5/8\"/>
09 65 00 B4	2 1/2\"/>
09 66 00	CARPETING
12 24 13 A1	SURFACE MOUNT MANUAL SHADE
12 24 13 A2	SURFACE MOUNT MOTORIZED SHADE
12 36	SOLID SURFACE STOOL
13 16 A1	GIRT
13 34 19 A2	RIGID FRAME
13 34 19 B3	GIRT
13 34 19 B8	2\"/>
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C4	WALL PANEL (HORIZ)
13 34 19 C7	INSIDE PANEL CLOSURE
13 34 19 C8	PANEL CLOSURE
13 34 19 C14	HEAD TRIM
13 34 19 C16	JAMB TRIM
13 34 19 E5	WALL INSULATION R-19
32 10 00 B3	4\"/>



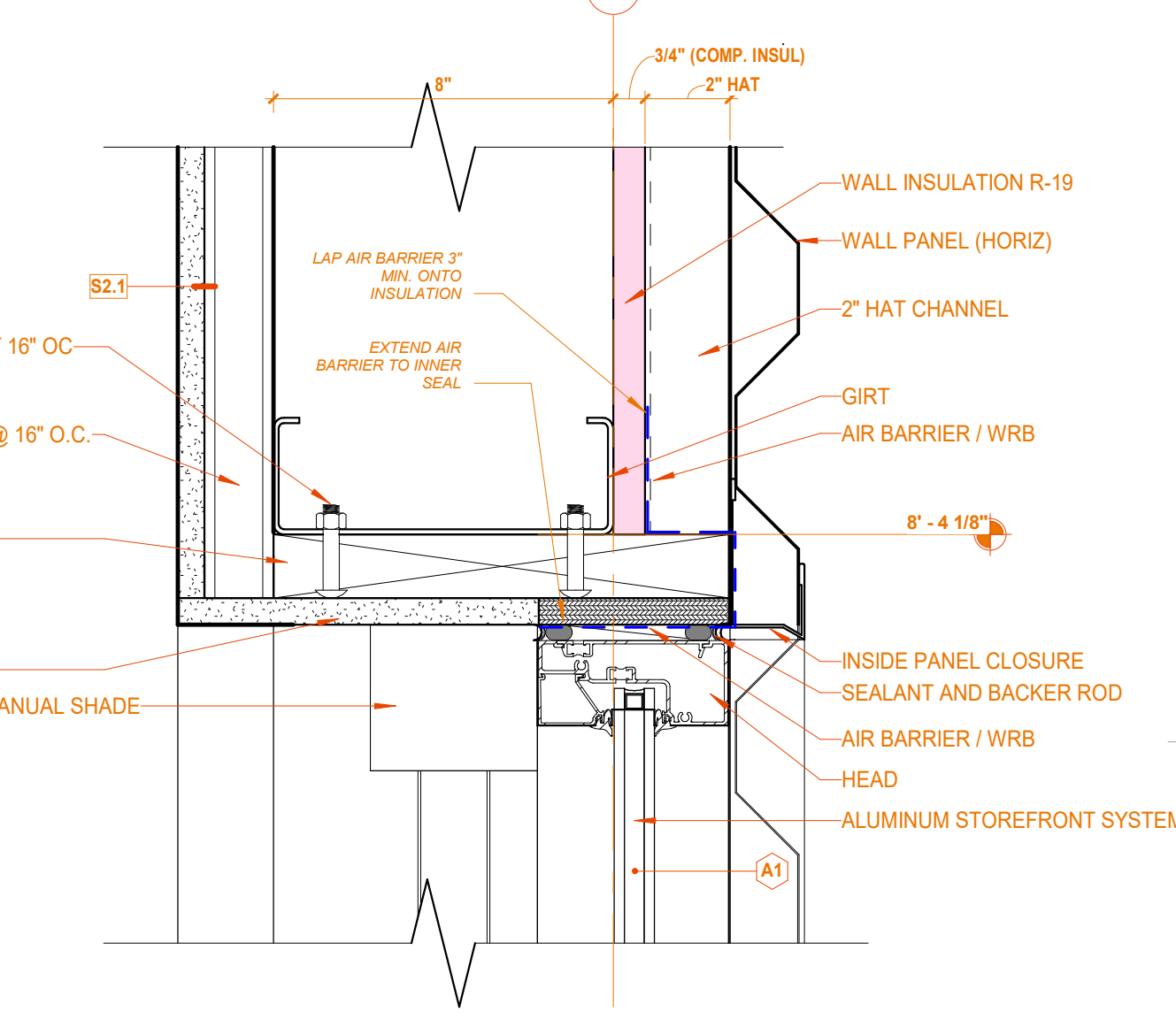
**6C WEST JAMB A2 WEST**  
3\"/>



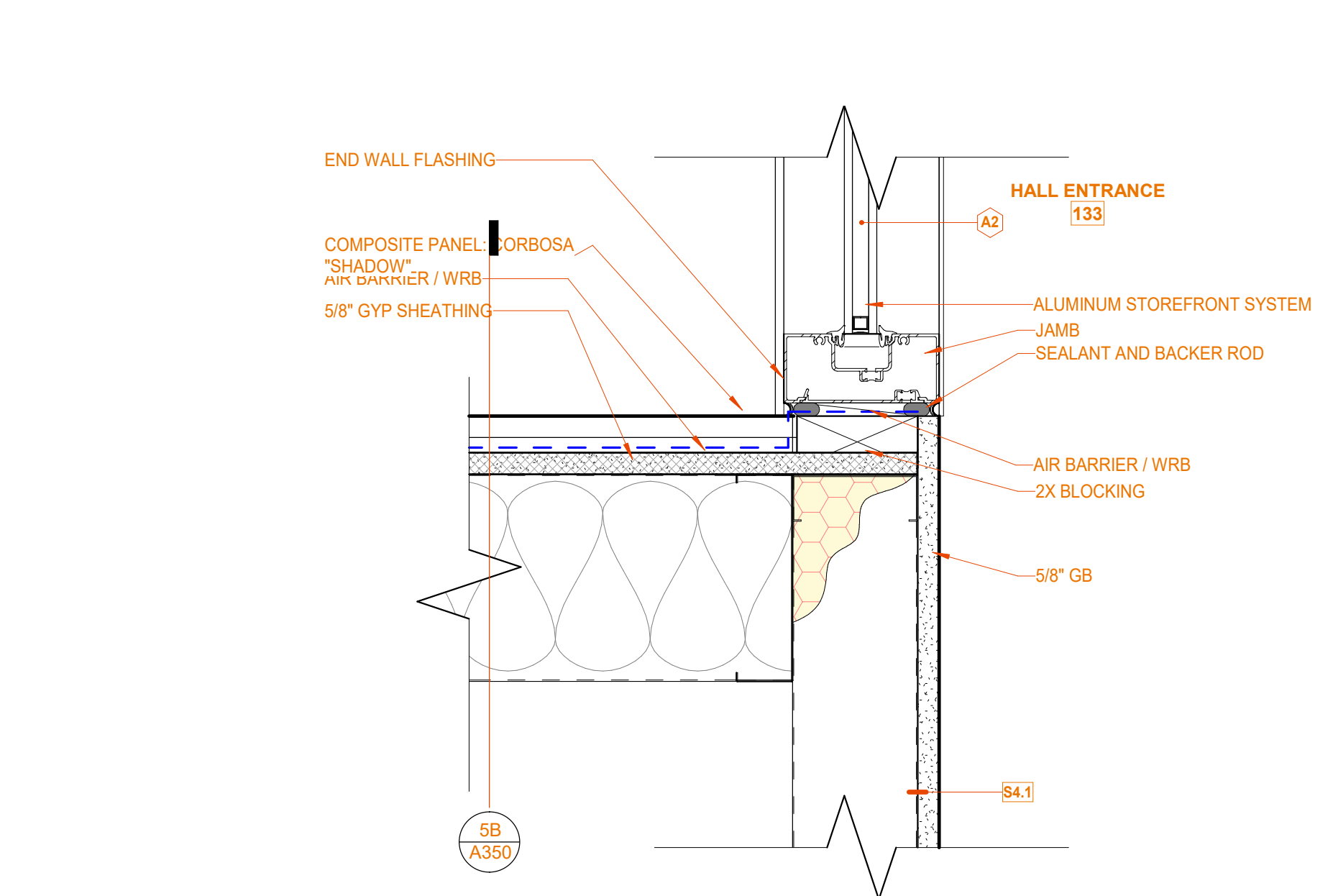
**5C WEST JAMB - A2 EAST**  
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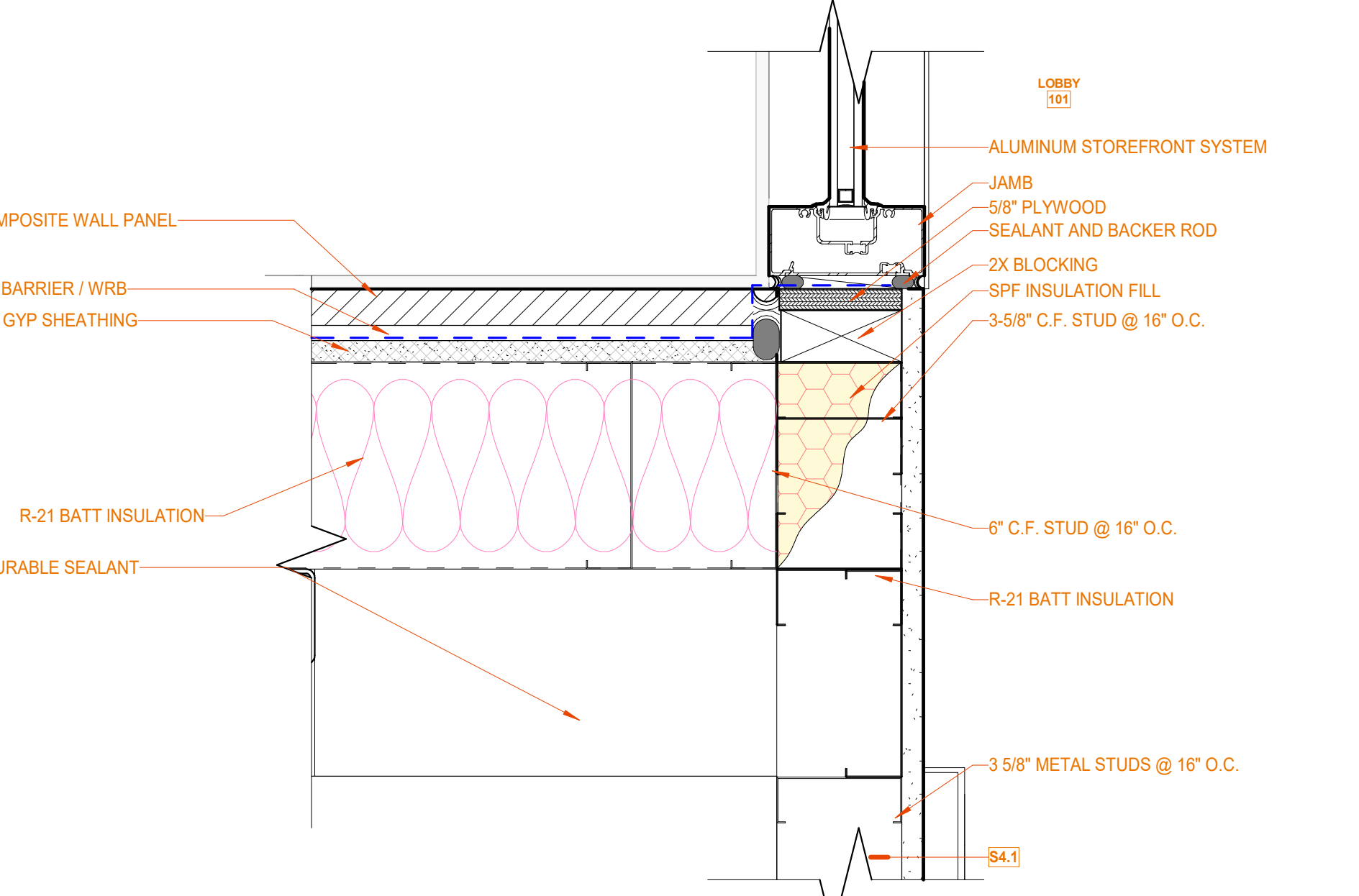
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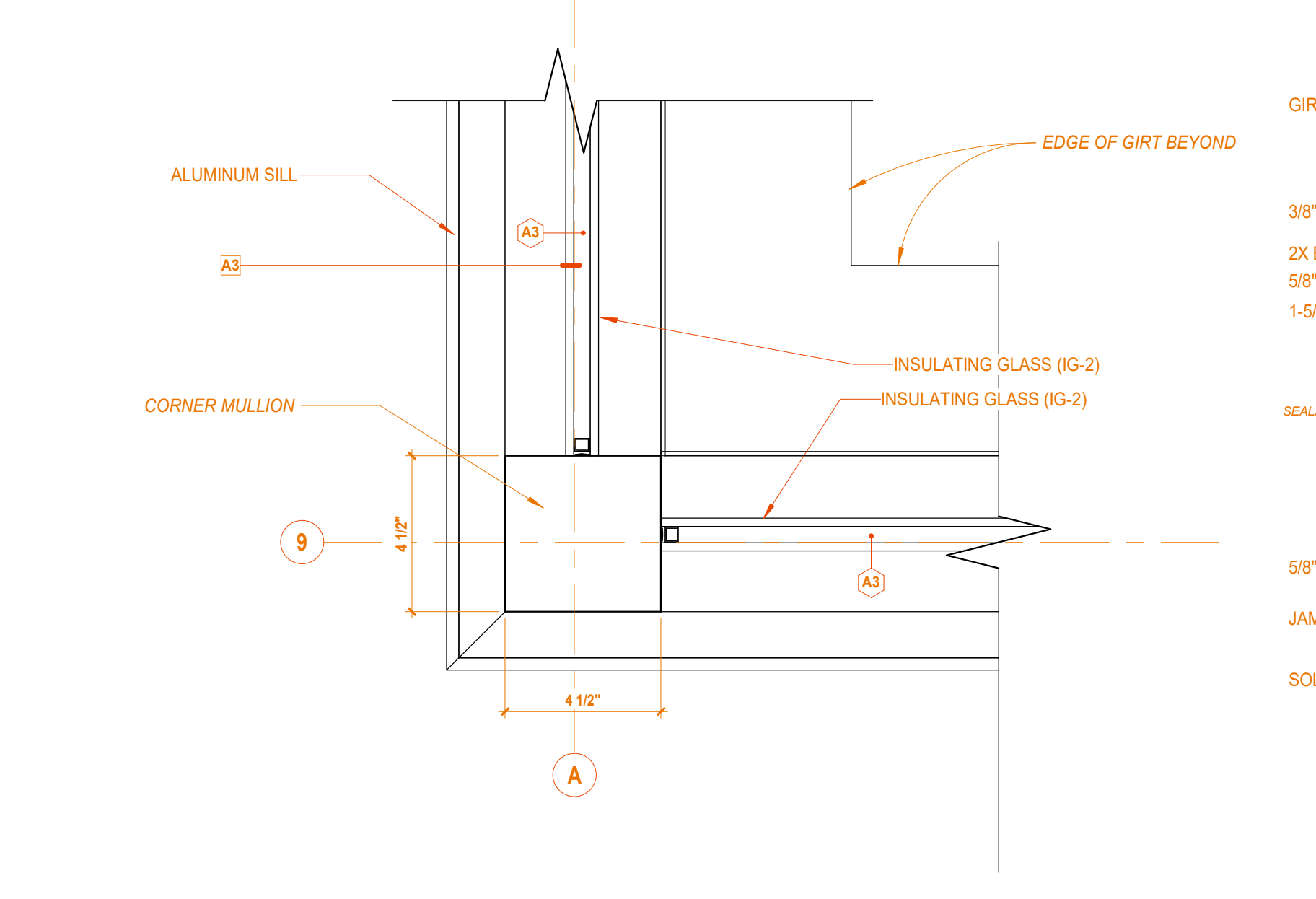
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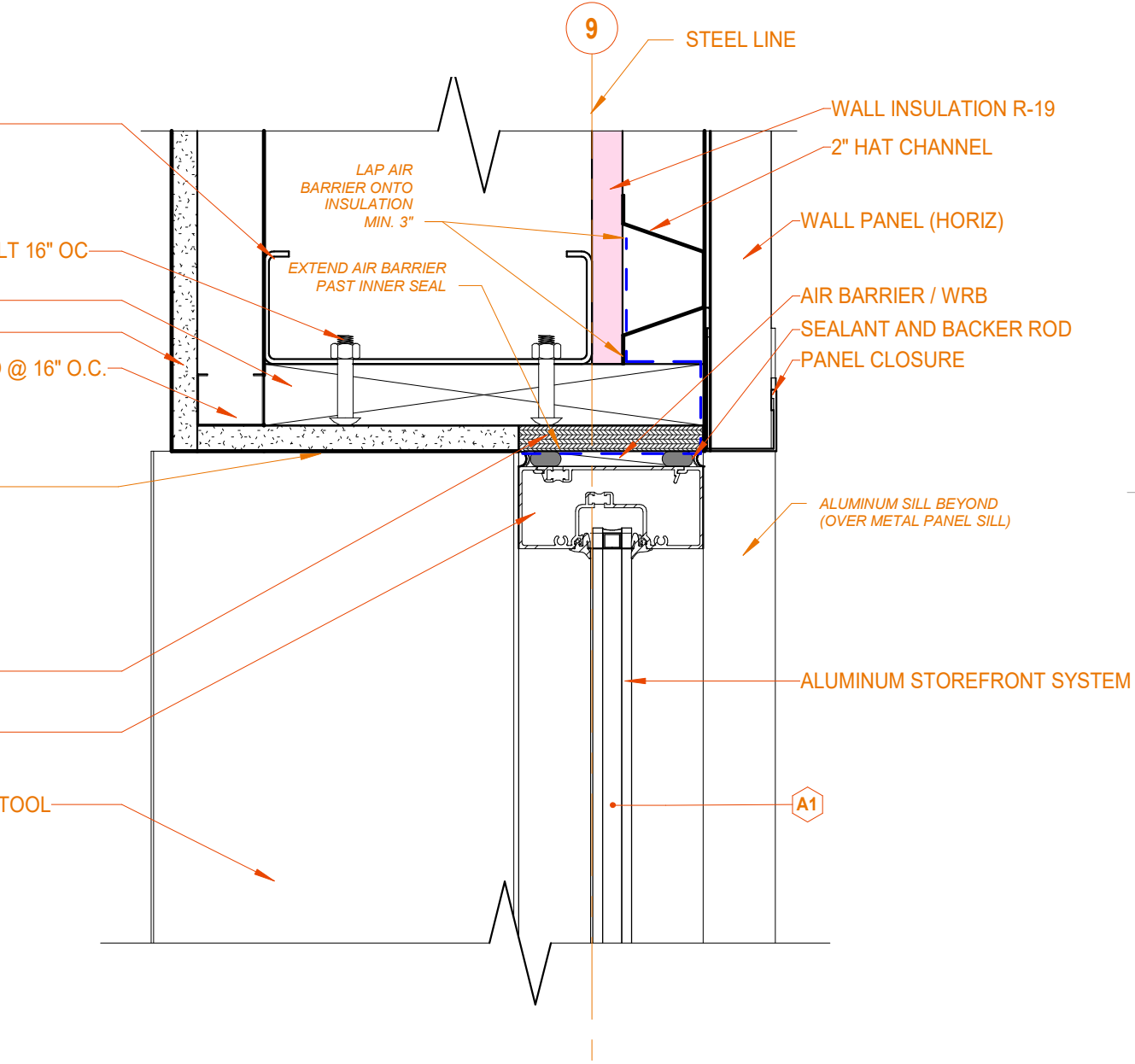
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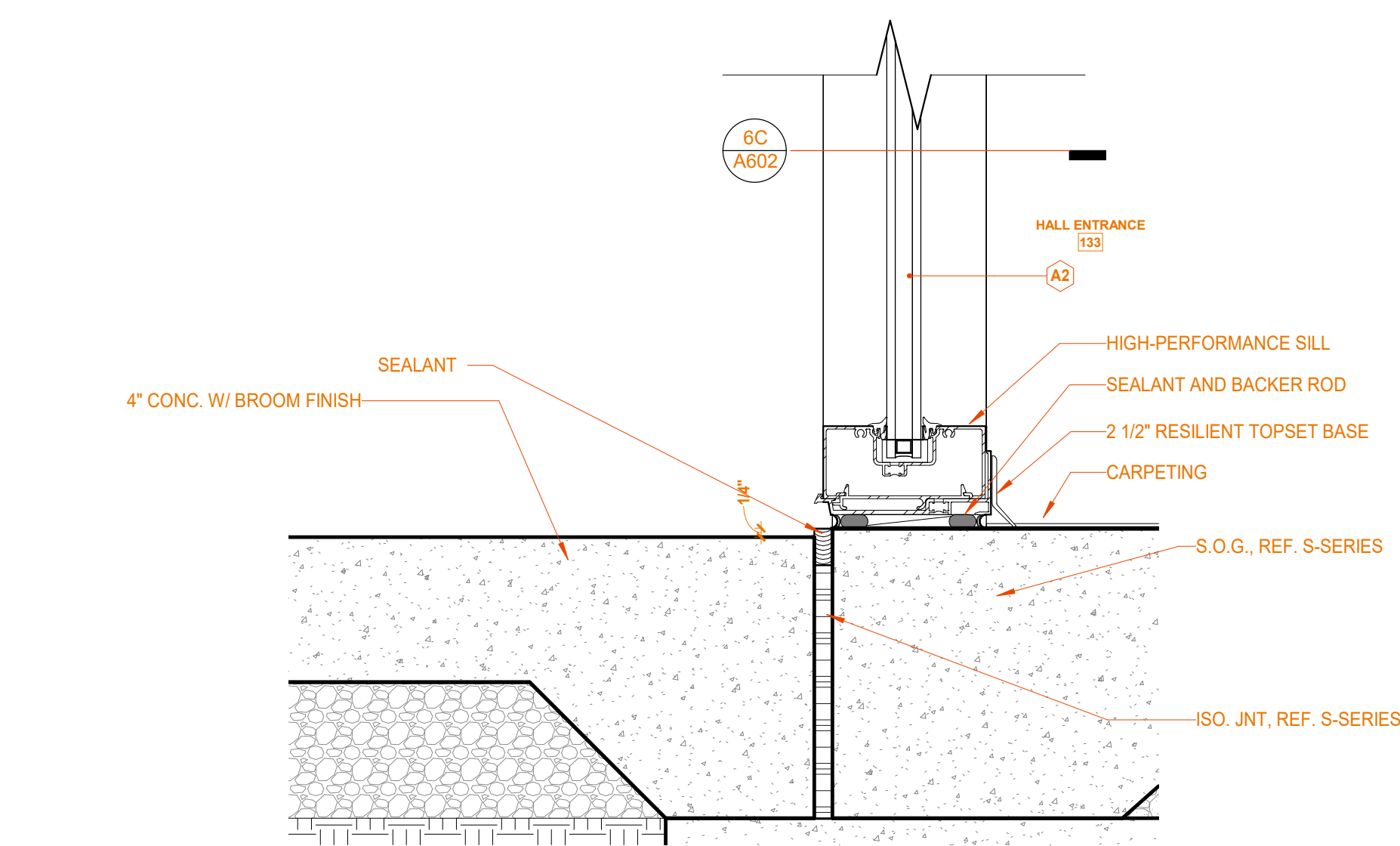
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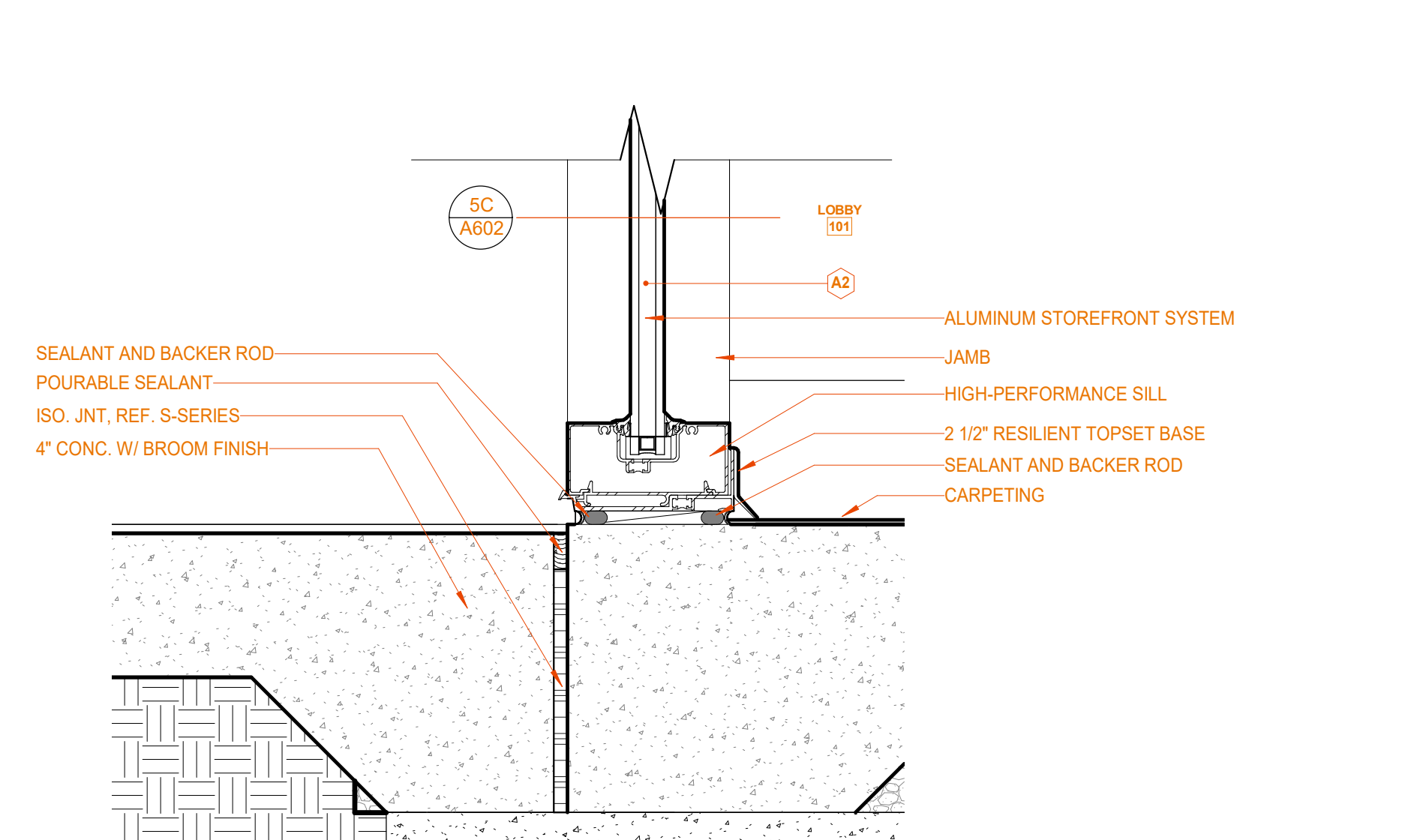
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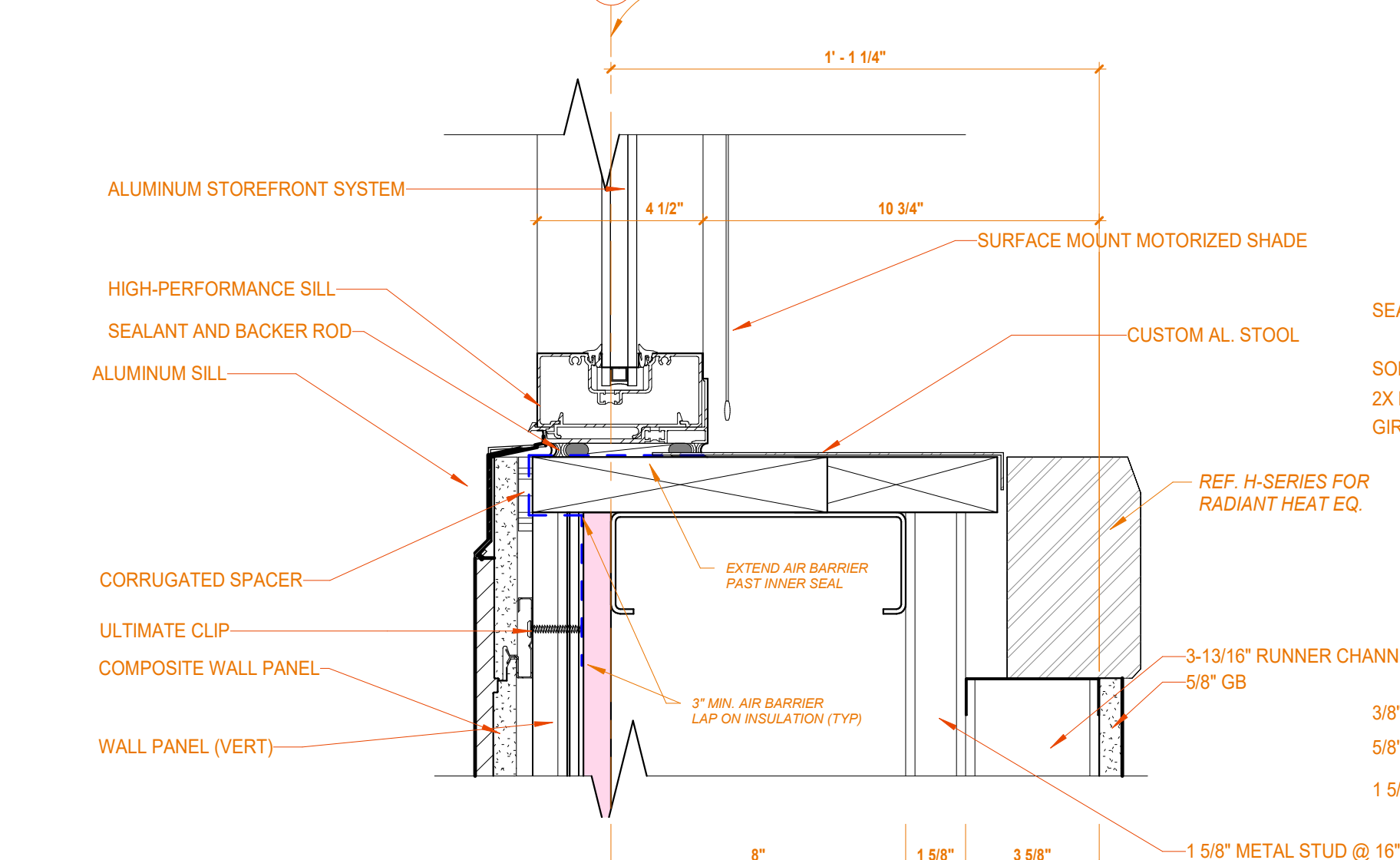
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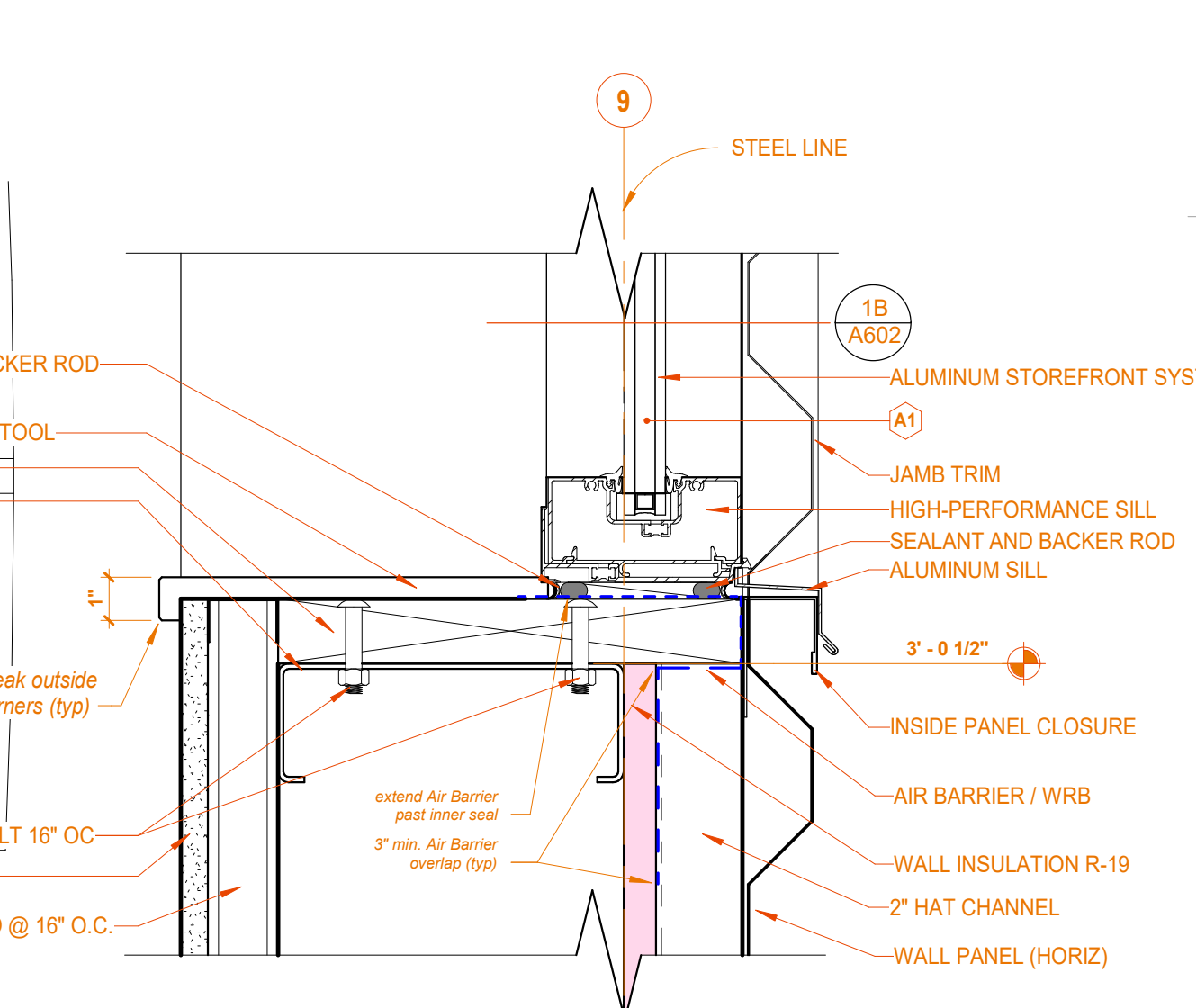
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**5A SILL - A2 EAST**  
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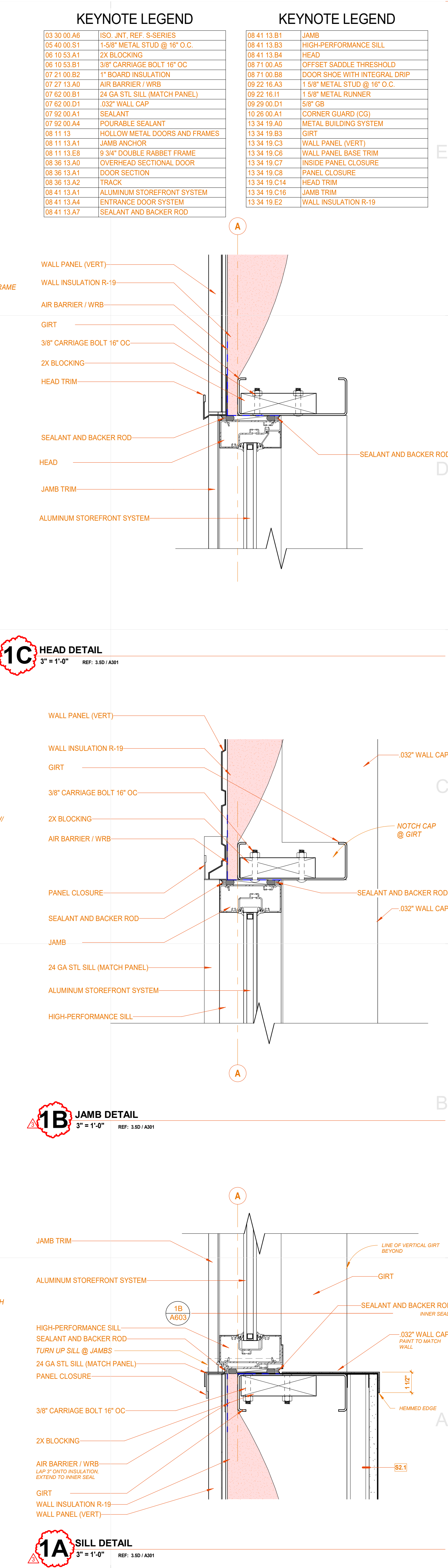
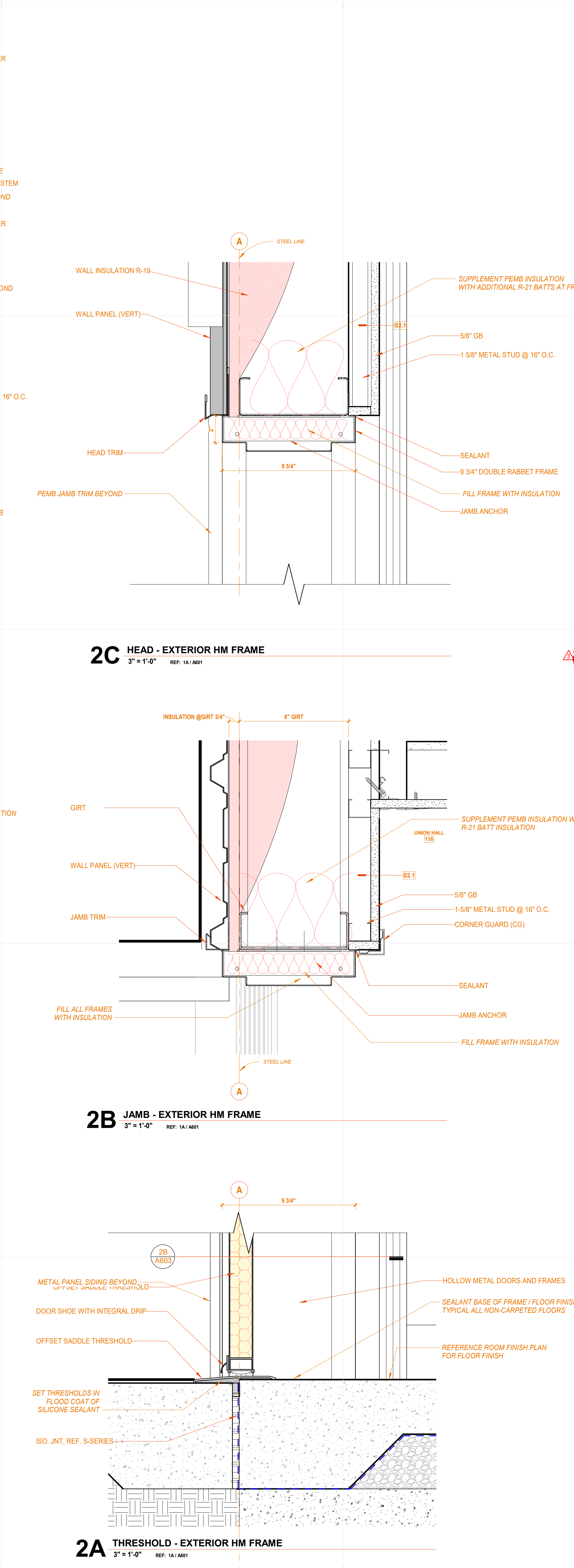
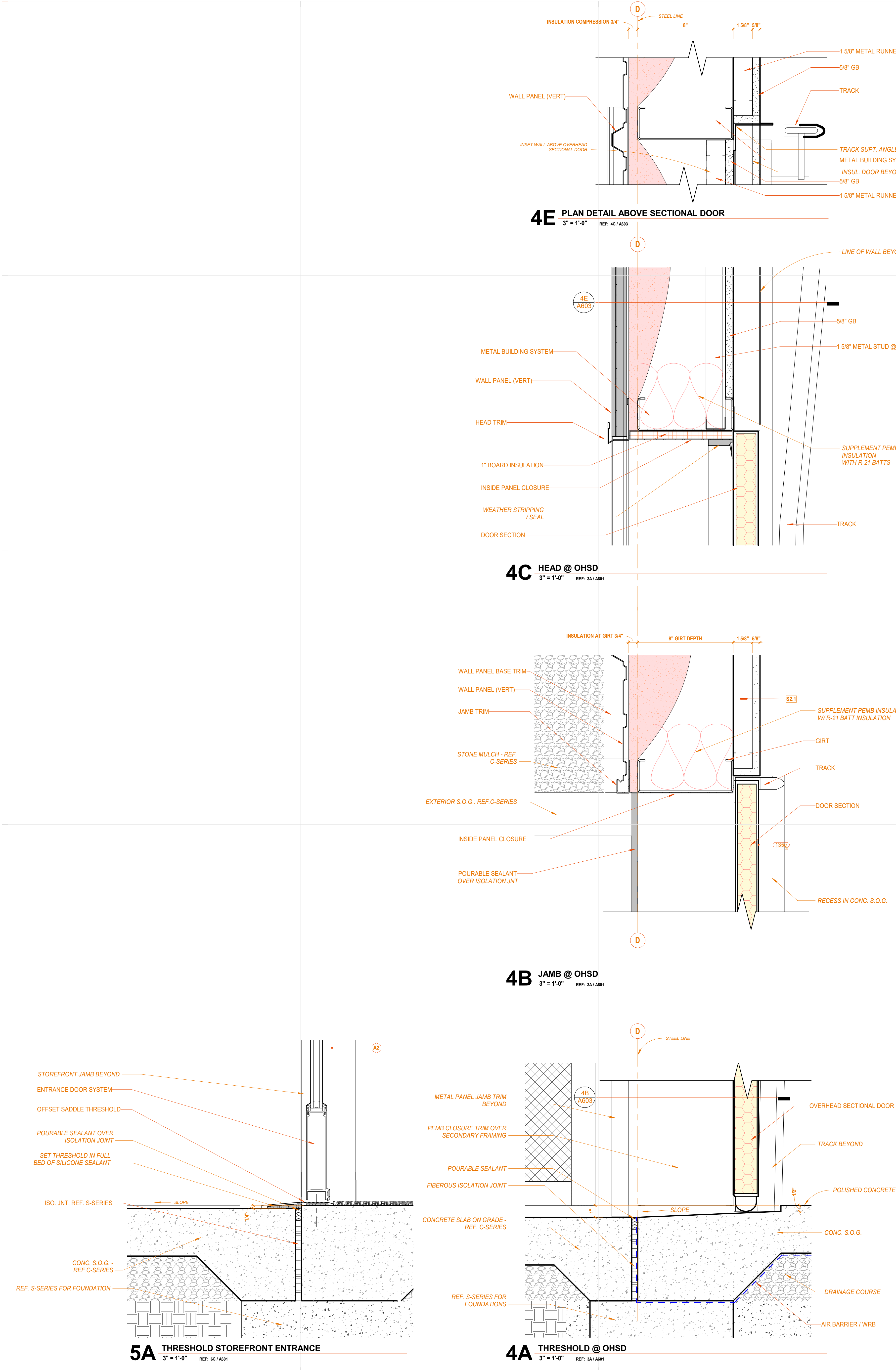
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**1A SILL - STOREFRONT PUNCHED OPENING**  
3\"/>



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KEYNOTE LEGEND

03 30 00 A6	ISO. JNT. REF. S-SERIES
05 40 00 S1	1-5/8" METAL STUD @ 16" O.C.
06 10 53 A1	2X BLOCKING
06 10 53 B1	3/8" CARRIAGE BOLT 16" OC
07 21 00 B2	1" BOARD INSULATION
07 27 13 A0	AIR BARRIER / WRB
07 62 00 B1	24 GA STL SILL (MATCH PANEL)
07 62 00 D1	.032" WALL CAP
07 92 00 A1	SEALANT
07 92 00 A4	POURABLE SEALANT
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 11 13 A1	JAMB ANCHOR
08 11 13 B8	9 3/4" DOUBLE RABBET FRAME
08 36 13 A0	OVERHEAD SECTIONAL DOOR
08 36 13 A1	DOOR SECTION
08 36 13 A2	TRACK
08 41 13 A1	ALUMINUM STOREFRONT SYSTEM
08 41 13 A4	ENTRANCE DOOR SYSTEM
08 41 13 A7	SEALANT AND BACKER ROD

KEYNOTE LEGEND

08 41 13 B1	JAMB
08 41 13 B3	HIGH-PERFORMANCE SILL
08 41 13 B4	HEAD
08 71 00 A5	OFFSET SADDLE THRESHOLD
08 71 00 B8	DOOR SHOE WITH INTEGRAL DRIP
09 22 16 A3	1-5/8" METAL STUD @ 16" O.C.
09 22 16 I1	1-5/8" METAL RUNNER
09 29 00 D1	5/8" GB
10 26 00 A1	CORNER GUARD (CG)
13 34 19 A0	METAL BUILDING SYSTEM
13 34 19 B3	GIRT
13 34 19 C3	WALL PANEL (VERT)
13 34 19 C5	WALL PANEL BASE TRIM
13 34 19 C7	INSIDE PANEL CLOSURE
13 34 19 C8	PANEL CLOSURE
13 34 19 C14	HEAD TRIM
13 34 19 C16	JAMB TRIM
13 34 19 E2	WALL INSULATION R-19



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3D Exterior West



3D Exterior Entrance



3D Exterior South



3D Exterior South East



WEST PRESENTATION



EAST PRESENTATION



NORTH PRESENTATION



SOUTH PRESENTATION



ABBREVIATIONS AND TERMS			
Ø	PHASE	FS	FLOOR SINK
°F	DEGREES FAHRENHEIT	FSD	FIRE/SMOKE DAMPER
AE	ARCHITECT/ENGINEER	FTR	FINED TUBE RADIATION
ACC	AIR COOLED CONDENSER	GA	GAGE OR GAUGE
ACCU	AIR COOLED CONDENSING UNIT	GAL	GALLON
AD	AREA DRAIN ACCESS DOOR	GC	GENERAL CONTRACTOR
ADJ	ADJUSTABLE ADJACENT	GPD	GALLONS PER DAY
AFCV	AIRFLOW CONTROL VALVE	GPH	GALLONS PER HOUR
AF	ABOVE FINISHED FLOOR	GP	GALLONS PER MINUTE
AFMS	AIRFLOW MEASURING STATION	HD	HEAD (FT.)
AGA	AMERICAN GAS ASSOCIATION	HP	HORSEPOWER
AHU	AIR HANDLING UNIT	HPR	HIGH PRESSURE STEAM RETURN
AS	AIR SEPARATOR	HPS	HIGH PRESSURE STEAM SUPPLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HWP	HOT WATER PUMP
AO	ANALOG OUTPUT	HWR	HEATING WATER RETURN
AP	AIR PROOF ACCESS PANEL	HWS	HEATING WATER SUPPLY
APD	AIR PRESSURE DROP (IN. WC)	HX	HEAT EXCHANGER
ARI	AIR CONDITIONING REFRIGERATION INSTITUTE	IFB	INTEGRAL FACE/BYPASS
AS	AIR SEPARATOR	IAT	LEAVING AIR TEMPERATURE (°F)
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LPR	LOW PRESSURE STEAM RETURN
		LPS	LOW PRESSURE STEAM SUPPLY
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	LWT	LEAVING WATER TEMPERATURE (°F)
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MA	MIXED AIR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAT	MIXED AIR TEMPERATURE (°F)
ATM	ATMOSPHERE	MBH	THOUSAND BTU PER HOUR
AUTO	AUTOMATIC	MC	MECHANICAL CONTRACTOR
AWWA	AMERICAN WATER WORKS ASSOCIATION	MCA	MINIMUM CIRCUIT AMPACITY
B	BOILER	MCC	MOTOR CONTROL CENTER
BCU	BLOWER COIL UNIT	MD	MOTORIZED DAMPER
BD	BALANCE DAMPER	MPR	MEDIUM PRESSURE STEAM RETURN
BDD	BACK-DRAFT DAMPER	MPS	MEDIUM PRESSURE STEAM SUPPLY
BHP	BRAKE HORSEPOWER OR BOILER HORSEPOWER	NC	NOISE CRITERIA, NORMALLY CLOSED
BI	BINARY INPUT, BACKWARD INCLINED	NEC	NATIONAL ELECTRIC CODE
BOD	BOTTOM OF DUCT	NFC	NATIONAL FIRE CODE
BOP	BOTTOM OF PIPE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
CA	COMPRESSED AIR	NO	NORMALLY OPEN
CAP	CAPACITY	NTS	NOT TO SCALE
CAV	CONSTANT AIR VOLUME	OA	OUTSIDE AIR
CB	CATCH BASIN OR CHILLED BEAM	OAT	OUTSIDE AIR TEMPERATURE (°F)
CD	CONDENSATE DRAIN	OBD	OPOSED BLADE DAMPER
CO2	CARBON DIOXIDE	OD	OUTSIDE DIAMETER
CFM	CUBIC FEET PER MINUTE	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
CH	CHILLER	P	PUMP
CHWP	CHILLED WATER PUMP	PC	PLUMBING CONTRACTOR
CHWR	CHILLED WATER RETURN	PD	PRESSURE DROP
CHWS	CHILLED WATER SUPPLY	PF	PREFILTER
CO	CLEANOUT	PGW	PROPYLENE GLYCOL WATER
COMP	COMPRESSOR	PHC	PREHEAT COIL
COND	CONDENSES	PPM	PARTS PER MILLION
CONV	CONVECTOR	PRV	PRESSURE REDUCING VALVE
CP	CONDENSATE PUMP	PSI	POUNDS PER SQUARE INCH
CPD	CONDENSATE PUMP DISCHARGE	PSIA	POUNDS PER SQUARE INCH (ABSOLUTE)
CR	CONDENSER WATER RETURN	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CS	CONDENSER WATER SUPPLY	PTAC	PACKAGED TERMINAL AIR CONDITIONER
CT	COOLING TOWER	RA	RETURN AIR
CUH	CABINET UNIT HEATER	RAT	RETURN AIR TEMPERATURE (°F)
CWP	CONDENSER WATER PUMP	RF	RETURN FAN
DB	DEGREE	RG	RETURN GRILLE
DD	DUAL DUCT	RH	RELATIVE HUMIDITY
DDC	DIRECT DIGITAL CONTROL	RHC	REHEAT COIL
DEG	DEGREE (°F)	RP	RADIANT PANEL
DIA	DIAMETER	RTU	ROOFTOP UNIT
DISC	DISCONNECT SWITCH	SA	SUPPLY AIR
DWH	DOMESTIC WATER HEATER	SAT	SUPPLY AIR TEMPERATURE (°F)
DWV	DRAIN, WASTE, AND VENT	SD	SUPPLY DIFFUSER
DX	DIRECT EXPANSION	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EA	EXHAUST AIR	SG	SUPPLY GRILLE
EAT	ENTERING AIR TEMPERATURE (°F)	SMACNA	SHEETMETAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION
EC	ELECTRICAL CONTRACTOR	SP	STATIC PRESSURE
ECO	EGG-CRATE GRILLE	SR	SUPPLY REGISTER
EDR	EQUIVALENT DIRECT RADIATION	SRV	SAFETY RELIEF VALVE
EER	ENERGY EFFICIENCY RATIO	SV	STEAM VENT
EF	EFFICIENCY	T	THERMOSTAT
EFF	EFFICIENCY	TCC	TEMPERATURE CONTROL CONTRACTOR
EFT	ENTERING FLUID TEMPERATURE (°F)	TD	TEMPERATURE DIFFERENCE
EG	EXHAUST GRILLE	TSP	TOTAL STATIC PRESSURE
EWG	EXTRUDED METAL GRILLE (WELDED WIRE MESH)	TXV	THERMAL EXPANSION VALVE
EOM	END OF MAIN DRIP	TYP	TYPICAL
ESP	EXTERNAL STATIC PRESSURE (IN. WC.)	UH	UNIT HEATER
ET	EXPANSION TANK	UL	UNDERWRITER'S LABORATORIES
EWT	ENTERING WATER TEMPERATURE (°F)	VAV	VARIABLE AIR VOLUME
EXH	EXHAUST	VO	VOLUME DAMPER
F	FURNACE	VFC	VARIABLE FREQUENCY CONTROLLER (SAME AS VFD, VSD)
F&T	FLOAT AND THERMOSTATIC STEAM TRAP	VFD	VARIABLE FREQUENCY DRIVE (SAME AS VFC, VSD)
FCO	FLOOR CLEANOUT	VSC	VARIABLE SPEED CONTROLLER (SAME AS VFC, VFD)
FCU	FAN COIL UNIT	W	WITH
FD	FLOOR DRAIN	W/O	WITHOUT
FM	FACTORY MUTUAL	WB	WET BULB TEMPERATURE (°F)
FPS	FAN POWERED TERMINAL UNIT	WPD	WATER PRESSURE DROP (FT. HD)
PPM	FEET PER MINUTE	WSHP	WATER SOURCE HEAT PUMP
FPS	FEET PER SECOND		

MECHANICAL DUCTWORK SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER		90 DEGREE ELBOW WITH TURNING VANES
	FIRE DAMPER WITH ACCESS DOOR		STANDARD RADIUS ELBOW WITH CENTER RADIUS EQUAL TO 1-1/2 TIMES WIDTH OF DUCT UNLESS OTHERWISE INDICATED
	SMOKE DAMPER WITH ACCESS DOOR		FLAT OVAL SPIRAL DUCT (FIRST DIMENSION, SIDE SHOWN)
	FIRE/SMOKE DAMPER WITH ACCESS DOOR		ROUND SPIRAL DUCT
	AUTOMATIC MOTOR OPERATED DAMPER		RECTANGULAR DUCT (FIRST DIMENSION, SIDE SHOWN)
	DUCT TURNED UP (SOLID LINES)		SPIN-IN FITTING WITH MANUAL VOLUME DAMPER AND FLEXIBLE DUCT CONNECTION
	DUCT TURNED DOWN (DASHED LINES)		CONICAL FITTING
	GRILLE/REGISTER/DIFFUSER CONNECTION		SQUARE-TO-ROUND TRANSITION
	REVELED ENTRY FITTING		TYPICAL TERMINAL UNIT WITH REHEAT COIL
	FLEXIBLE CONNECTION		90 DEGREE TEE (ROUND OR FLAT OVAL ONLY)
	R (RISE), D (DROP)		45 DEGREE LATERAL (ROUND OR FLAT OVAL ONLY)
	ACCESS DOOR		INSULATED METAL PANEL
			DIFFUSER (NO AIRFLOW IN SHADED DIRECTION)
			SUPPLY DIFFUSER OR SUPPLY GRILLE
			RETURN GRILLE
			EXHAUST GRILLE

MECHANICAL VALVE AND FITTING SYMBOLS	
SYMBOL	DESCRIPTION
	CALIBRATED BALANCING VALVE
	PIPING FLEXIBLE CONNECTION
	PIPE TURNED UP (UNLESS NOTED OTHERWISE)
	PIPE TURNED DOWN
	PIPE OUT TOP
	PIPE OUT BOTTOM
	THREADED/FLANGED CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CHECK VALVE
	UNION
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	TEMPERATURE CONTROL 2-WAY MODULATING VALVE
	TEMPERATURE CONTROL 2-WAY 2-POSITION VALVE
	TEMPERATURE CONTROL 3-WAY MODULATING VALVE
	TEMPERATURE CONTROL 3-WAY 2-POSITION VALVE
	SAFETY RELIEF VALVE
	STRAINER
	FLOW METER
	FLOOR DRAIN
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	WATER PRESSURE REDUCING/REGULATING VALVE
	PRESSURE AND TEMPERATURE PLUG
	THERMOMETER
	(P=PRESS V=VAC T=TEMP) GAUGE
	SENSOR (T=TEMP H=HUMIDITY)
	CLEANOUT
	STEAM TRAP
	VACUUM BREAKER

HVAC PIPING SYMBOLS	
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CONDENSATE PUMP DISCHARGE
	CONDENSATE & EQUIPMENT DRAIN
	DIRECTION OF PIPE SLOPE (DOWN)

LINE SYMBOLS	
	SCREENED LINES INDICATE EXISTING TO REMAIN
	HEAVY DASHED LINES INDICATE EXISTING TO BE REMOVED
	HEAVY CONTINUOUS LINES INDICATE NEW WORK

ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT



#### GENERAL NOTES

- CEILING RETURN GRILLES SHALL HAVE SOUND TRAP REFER TO DETAIL 7 ON H501.
- PROVIDE BALANCE DAMPER FOR EACH SUPPLY AND EXHAUST BRANCH DUCT.
- ALL THERMOSTATS AND SENSORS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR TO TOP OF SENSOR.
- PROVIDE 1" ELASTOMERIC INTERNAL LINING FOR 5' DOWN STREAM OF TERMINAL UNITS.
- ALL DUCT DIMENSIONS SHOWN ARE FREE AREA.
- INSTALL ALL VAV BOXES SO THAT CONTROL PANEL AND ELECTRIC HEATER HAS MINIMUM 3' CLEARANCE; COORDINATE WITH ALL OTHER TRADES PRIOR TO DUCT FABRICATION AND DURING INSTALL.
- COORDINATE ALL BUILDING ENTRY WITH PRE-ENGINEERED METAL BUILDING AND HORIZONTAL STRUCTURAL COMPONENTS. ALL PENETRATIONS SHALL BE SEALED WEATHER AND WATER TIGHT. THE CONTRACTOR SHALL ENSURE THAT THE INSTALLATION DOES NOT ALLOW WATER, SNOW, INSECTS, OR ANY OTHER ITEM TO PENETRATE THE BUILDING.
- COORDINATE ALL HVAC INSTALLATION WITH OTHER TRADES.
- DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE AND INSTALL DUCT SMOKE DETECTORS IN ACCESSIBLE LOCATION IN FULL AIRFLOW.

#### PLAN NOTES

- SUPPLY DUCT SHALL HAVE 1" ELASTOMERIC INTERNAL LINING AND HAVE 2" RIGID SOUND BOARD OR 2" EXTERNAL MASS LOADED VINYL WRAP RIGID (1 LB/SQ. FT.) FOR 15' OF DUCTWORK AT BUILDING ENTRY.
- RETURN AIR DUCT SHALL HAVE 1" ELASTOMERIC INTERNAL LINING AND HAVE 2" RIGID SOUND BOARD OR 2" EXTERNAL MASS LOADED VINYL WRAP (1 LB/SQ. FT.) FOR 15' RETURN DUCT WITHIN BUILDING.
- MOUNT WALL MOUNT SPLIT UNIT ABOVE DOOR.
- TEMPERATURE CONTROL PANEL LOCATION.
- ADJUST HIGH CAPACITY DRUM LOUVER FACE 45 DEGREE DOWN FROM HORIZONTAL TO DIRECT AIRFLOW TO OCCUPIED SPACE.
- RETURN AIR OPENING 66"x42" ON TOP OF DUCT. COVER OPENING WITH HARDWARE CLOTH GRILLE.
- MOUNT AHU-1 ON 14" CURB ON EQUIPMENT PAD. COORDINATE LOCATION WITH OTHER TRADES. MAINTAIN REQUIRED MANUFACTURERS CLEARANCES.
- MOUNT AHU-2 ON 14" CURB ON EQUIPMENT PAD. COORDINATE LOCATION WITH OTHER TRADES. MAINTAIN REQUIRED MANUFACTURERS CLEARANCES.
- MOUNT UNIT HEATER 9' ABOVE THE FINISHED FLOOR. ANGLE HEATER TO BLOW ACROSS THE ROOMS TOWARDS THE ENTRY DOOR.
- REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION LOCATION OF FINNED TUBE RADIATION IN SILL AT STOREFRONT WINDOWS.
- MOUNT BOTTOM OF LOUVER 14" ABOVE EXTERIOR GRADE.
- BLANK OFF LOUVER TO ALLOW 15"x15" OPENING. SEAL BLANK OFF WEATHER AND WATER TIGHT.
- BOTTOM OF GRILLE IS 6" ABOVE FINISHED FLOOR. PAINT VISIBLE METAL DUCT INSIDE OF RETURN AIR DUCT BLACK.
- ROUTE SUPPLY DUCT ABOVE MECHANICAL ROOM CEILING.
- PROVIDE 2" (R-6) DUCTWORK INSULATION DOWNSTREAM OF EXHAUST FAN.
- BOTTOM OF DUCT 15'-6" A.F.F.
- CABINET UNIT HEATER TEMPERATURE SENSOR.

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##### REVISIONS:

- 01.07.2022 ADDENDUM 1
- 01.14.2022 ADDENDUM 2
- 02.11.2022 ADDENDUM 3

##### DATE:

2.11.2022

arcDESIGN PROJECT NUMBER:

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Author

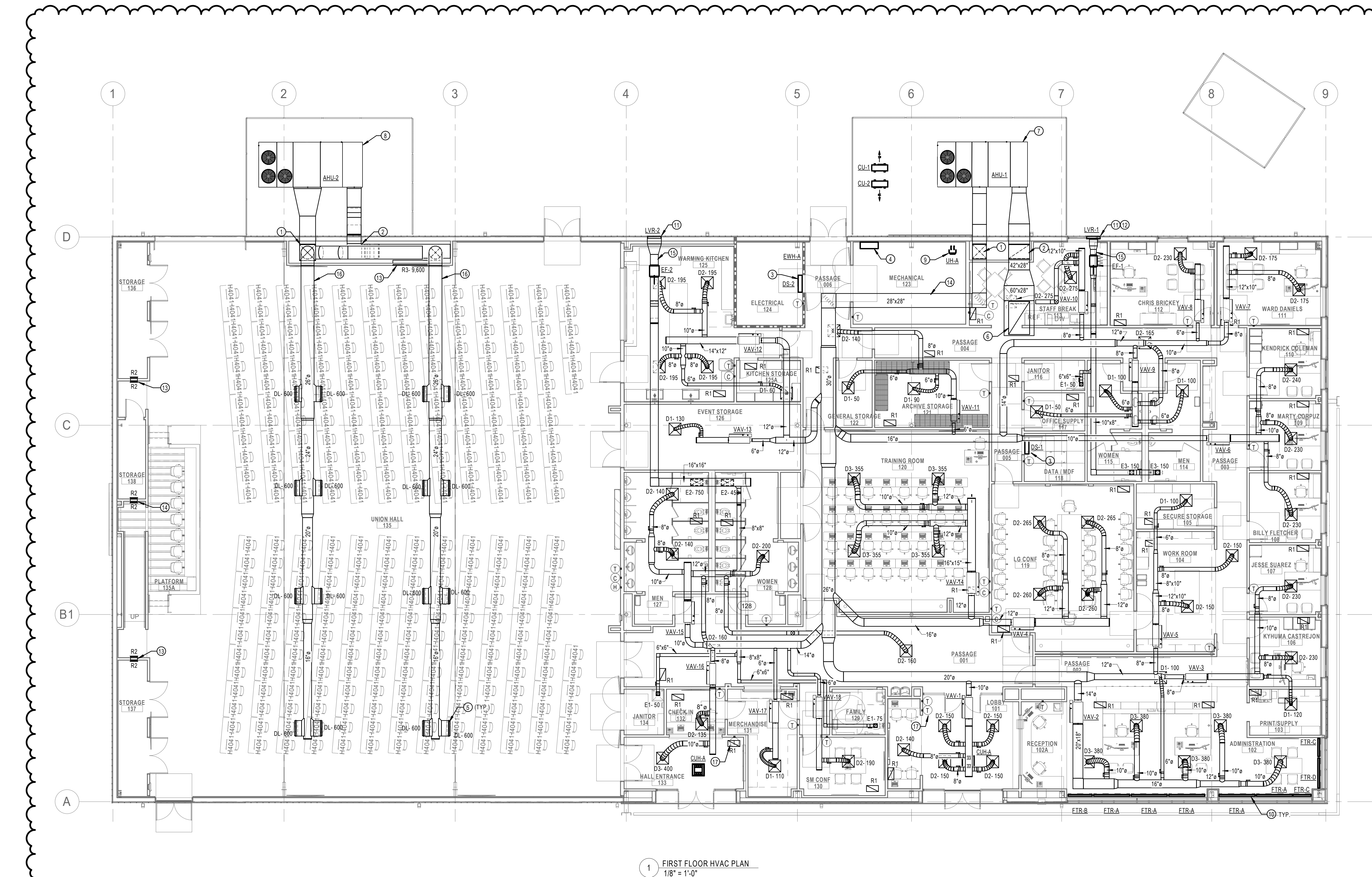
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FIRST FLOOR  
HVAC PLAN

DRAWING NUMBER:

H201

TRUE  
NORTH





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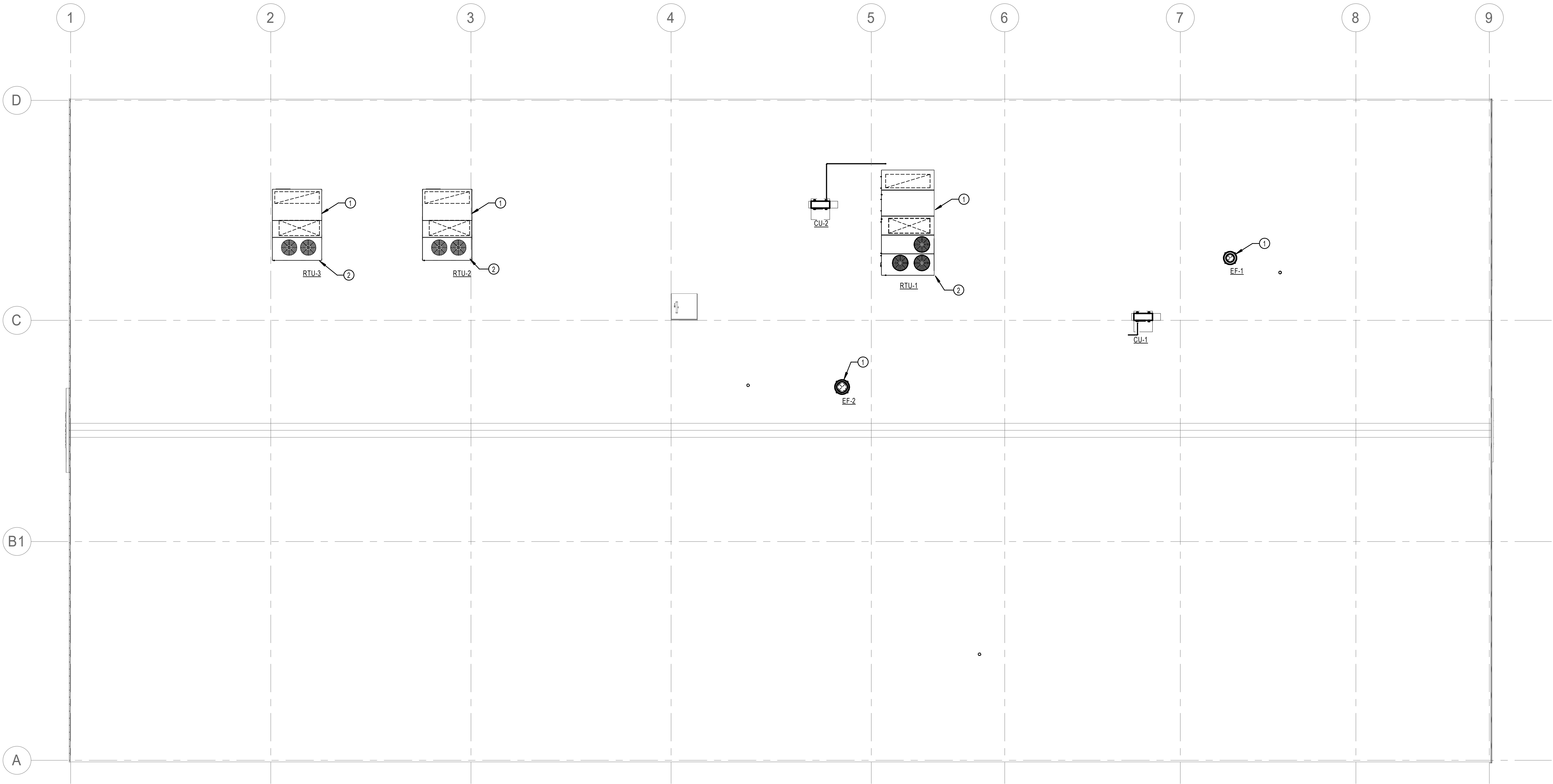
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**12.21.2021**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

DRAWN BY:  
**Author**  
DRAWING TITLE:

**ROOF HVAC PLAN**

DRAWING NUMBER:

**H202**



**GENERAL NOTES**

- A. LOCATE ALL MECHANICAL EQUIPMENT MORE THAN 10' FROM ROOF EDGE, INCLUDING REQUIRED CLEARANCES.

**PLAN NOTES**

1. COORDINATE ROOF EQUIPMENT AND PENETRATIONS WITH PRE-ENGINEERED BUILDING MANUFACTURER.  
2. PROVIDE MASS LOADED VINYL AND 2" RIGID SOUNDBOARD UNDERNEATH UNIT FOR SOUND INSULATION.

1. ROOF HVAC PLAN  
1/8" = 1'-0"



**GENERAL NOTES**

- FIELD ROUTE REFRIGERANT PIPING ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE WITH OTHER DISCIPLINES AS REQUIRED.
- REFRIGERANT EQUIPMENT MANUFACTURER IS RESPONSIBLE FOR REFRIGERANT LINE SIZING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO THE MANUFACTURER AND THE MANUFACTURER REPRESENTATIVE THE EXACT PIPE ROUTING FOR THE REFRIGERANT PIPING SYSTEMS. THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROVIDE ALL (AS IT RELATES TO ANY PIPE FITTINGS AND ACCESSORIES) REQUIRED BY THE MANUFACTURER AND THE MANUFACTURERS REPRESENTATIVE TO ALLOW THE SYSTEM TO BE SIZED TO ENSURE PROPER OPERATION OF THE SYSTEMS. THE MANUFACTURER AND THE MANUFACTURERS REPRESENTATIVE SHALL BE RESPONSIBLE TO PROVIDE ALL REFRIGERANT PIPE SIZE, REQUIRED REFRIGERANT QUANTITY, INCLUDING ANY ADDITIONAL REFRIGERANT NECESSARY IN ORDER TO PROVIDE THE CORRECT CHARGE WITHIN THE SYSTEM.

**PLAN NOTES**

- 1-1/4" CONDENSATE FROM WALL MOUNT FAN COIL UNIT. ROUTE CONDENSATE TO FLOOR DRAIN IN MECHANICAL ROOM. PROVIDE 1" AIR GAP. COORDINATE WITH FLOOR DRAIN LOCATION.
- 1-1/4" CONDENSATE FROM WALL MOUNT FAN COIL UNIT. ROUTE CONDENSATE TO FLOOR SINK OR FLOOR DRAIN THROUGH MECHANICAL ROOM.
- PUMPED CONDENSATE FROM WALL MOUNTED FAN COIL UNIT ROUTED ABOVE CEILING.
- REFRIGERANT PIPING SHALL PENETRATE BUILDING 2" ABOVE THE FINISHED FLOOR. CONTRACTOR SHALL INSTALL ALL REFRIGERANT PIPING THROUGH THE BUILDING ENVELOPE UTILIZING WEATHER AND WATERPROOF FITTINGS. THE CONTRACTOR SHALL ENSURE THAT THE INSTALLATION DOES NOT ALLOW WATER, SNOW, INSECTS, OR ANY OTHER ITEM TO PENETRATE THE BUILDING.
- CONTRACTOR SHALL INSTALL REFRIGERANT PIPE ON METAL RAILS (ROOF-TOP BLOX OR SIMILAR). NO WOOD WILL BE ALLOWED. PROVIDE DIELECTRIC SEPARATION BETWEEN THE COPPER REFRIGERANT PIPE AND SUPPORT RAILS.
- REFER TO PLUMBING PLANS FOR NATURAL GAS PIPING.

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**REVISIONS:**

- 01.07.2022 ADDENDUM 1
- 02.11.2022 ADDENDUM 3

**DATE:**

2.11.2022

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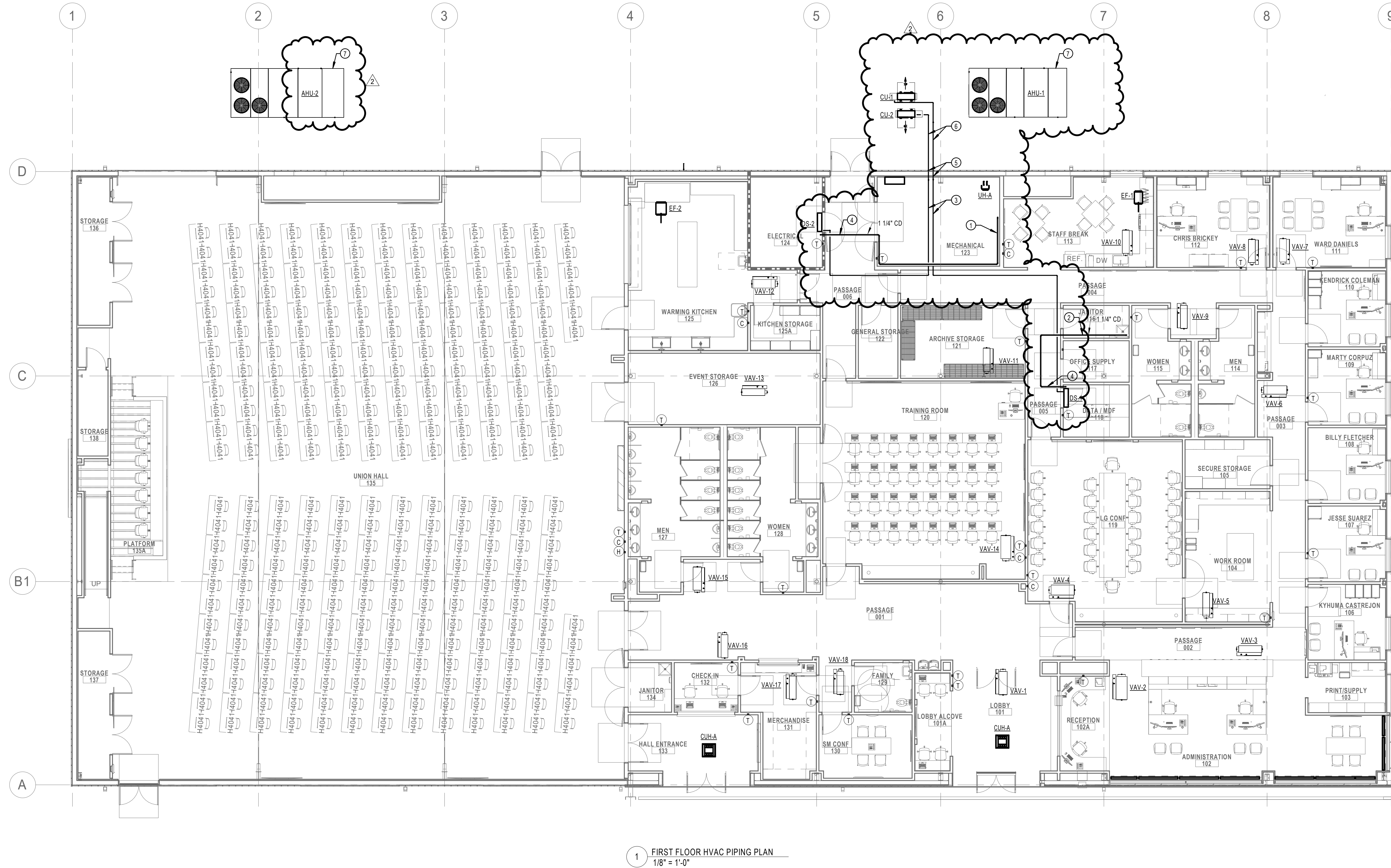
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DRAWING TITLE:

**FIRST FLOOR  
HVAC PIPING  
PLAN**

DRAWING NUMBER:

**H301**



1 FIRST FLOOR HVAC PIPING PLAN  
1/8" = 1'-0"



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arcDESIGN PROJECT NUMBER:  
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CLIENT PROJECT NUMBER:

DRAWN BY:

**Author**

DRAWING TITLE:

**ROOF HVAC  
PIPING PLAN**

DRAWING NUMBER:

**H302**



**GENERAL NOTES**

- A. FIELD ROUTE REFRIGERANT PIPING ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE WITH OTHER DISCIPLINES AS REQUIRED.
- B. REFRIGERANT EQUIPMENT MANUFACTURER IS RESPONSIBLE FOR REFRIGERANT LINE SIZING.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO THE MANUFACTURER AND THE MANUFACTURER REPRESENTATIVE THE EXACT PIPE ROUTING FOR THE REFRIGERANT PIPING SYSTEMS. THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROVIDE ALL (AS IT RELATES TO ANY PIPE FITTINGS AND ACCESSORIES) REQUIRED BY THE MANUFACTURER AND THE MANUFACTURERS REPRESENTATIVE TO ALLOW THE SYSTEM TO BE SIZED TO ENSURE PROPER OPERATION OF THE SYSTEMS. THE MANUFACTURER AND THE MANUFACTURERS REPRESENTATIVE SHALL BE RESPONSIBLE TO PROVIDE ALL REFRIGERANT PIPE SIZE, REQUIRED REFRIGERANT QUANTITY, INCLUDING ANY ADDITIONAL REFRIGERANT NECESSARY IN ORDER TO PROVIDE THE CORRECT CHARGE WITHIN THE SYSTEM.
- D. ALL ROOFTOP EQUIPMENT SHALL BE PLACED MORE THAN 10' FROM THE ROOF EDGE.

**PLAN NOTES**

- 1 COORDINATE ALL ROOF PENETRATIONS WITH PRE-ENGINEERED BUILDING MANUFACTURER.



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## HVAC VENTILATION SCHEDULE

ROOM NO.	ROOM NAME	AREA (SQ. FT)	OCCUPANTS	AIRFLOW REQUIREMENTS		SUBTOTAL	BREATHING ZONE TOTAL	CO2 DEMAND CONTROL VENTILATION	EXHAUST	NOTES
				CFM/PERSON	CFM/SQ. FT.					
101	LOBBY	324	4	5	0.06	39	49	-		
102 & 102A	RECEPTION / ADMINISTRATION	671	5	5	0.06	65	82	-		
103	PRINT SUPPLY	90	0	5	0.06	5	7	-		
104	WORK ROOM	257	2	5	0.06	25	32	-		
105	SECURE STORAGE	98	0	5	0.06	6	7	-		
106	OFFICE B	135	1	5	0.06	13	16	-		
107	OFFICE B	135	1	5	0.06	13	16	-		
108	OFFICE B	136	1	5	0.06	13	16	-		
109	OFFICE B	135	1	5	0.06	13	16	-		
110	OFFICE B	135	1	5	0.06	13	16	-		
111	OFFICE A	234	1	5	0.06	19	24	-		
112	OFFICE A	234	1	5	0.06	19	24	-		
113	STAFF BREAK	313	8	5	0.12	78	97	YES		
114	STAFF MENS RESTROOM	152	0	-	-	-	-	-	150	EXHAUST: 2 WATER CLOSETS
115	STAFF WOMEN'S RESTROOM	161	0	-	-	-	-	-	150	EXHAUST: 2 WATER CLOSETS
116	JANITOR	50	0	-	-	-	50	-	50	EXHAUST: 1 CFM/FT²
117	OFFICE SUPPLY	63	0	5	0.06	4	5	-		
118	DATA / MDF	80	0	0	0	0	0	-		
119	LARGE CONFERENCE	634	26	5	0.06	168	210	YES		
120	TRAINING ROOM	920	33	5	0.06	220	275	YES		
121	ARCHIVE STORAGE	211	0	5	0.06	13	16	-		
122	GENERAL STORAGE	67	0	5	0.06	4	5	-		
123	MECHANICAL	251	0	-	-	-	-	-		
124	ELECTRICAL	155	0	-	-	-	-	-		
125	WARMING KITCHEN	508	5	5	0.06	55	69	YES		NO COOKING OR FOOD PREP USED FOR CATERING AND WARMING
125A	KITCHEN STORAGE	71	0	0	0.12	9	11	-		
126	EVENT STORAGE	318	0	5	0.06	19	24	-		
127	MENS RESTROOM	307	0	-	-	-	-	-	750	EXHAUST: 10 WATER CLOSETS
128	WOMENS RESTROOM	264	0	-	-	-	-	-	450	EXHAUST: 6 WATER CLOSETS
129	FAMILY RESTROOM	65	0	-	-	-	-	-	75	EXHAUST: 1 WATER CLOSET
130	SMALL CONFERENCE	132	4	5	0.06	28	35	YES		
131	MERCHANDISE	169	0	5	0.06	10	13	-		
132	CHECK-IN	74	2	5	0.06	14	18	-		
133	HALL ENTRANCE	171	0	7.5	0.06	10	13	-		
134	JANITOR	50	0	-	-	-	-	-	50	EXHAUST: 1 CFM/FT²
001	PASSAGE	852	0	0	0.06	51	64	-		
002	PASSAGE	252	0	0	0.06	15	19	-		
003	PASSAGE	297	0	0	0.06	18	22	-		
004	PASSAGE	344	0	0	0.06	21	26	-		
005	PASSAGE	102	0	0	0.06	6	8	-		
006	PASSAGE	234	0	0	0.06	14	18	-		
135	UNION HALL	7378	406	5	0.06	2473	2473	YES		
136	STORAGE	110	0	5	0.06	7	9	-		
137	STORAGE	114	0	5	0.06	7	9	-		
138	STORAGE	60	0	0	0.06	4	5	-		

## AIR HANDLING UNIT SCHEDULE

UNIT	TAG	RTU-1		RTU-2	
		MANUFACTURER	TRANE	MANUFACTURER	TRANE
ELEC	MODEL	YCD360B4**6D3GD4ABC****HJB0M0		YCH360B4**6D3GD6*BC****HJB0MK0*T	
	WEIGHT (LBS)	4,780		5,581	
	MCA	83.85		88.05	
SUPPLY	VOLTS-PH-HZ	460/60/3		460/60/3	
	DISCONNECT	BY EC		BY EC	
	HP	15		15	
EXH	TOTAL CFM	10,000		9,600	
	MAXIMIN OA CFM	2000/1305		2500/500	
	EXTERNAL STATIC	2"		2"	
COOLING COIL	HP	1		1	
	TOTAL CFM	8,110		9,600	
	EXTERNAL STATIC	0.5		0.5	
HEATING	EADB (°F)	77.6		80.2	
	EAWB (°F)	64.9		66.8	
	LADB (°F)	54.1		55.5	
NOTES	LAWB (°F)	53.3		54.7	
	TOTAL CAPACITY (MBH)	344		352.8	
	SENSIBLE CAPACITY (MBH)	257		259.2	
ELEC	EVAPORATOR FACE VELOCITY (FPM)	315		303	
	HEATING STAGES	2		5.1	
	HEATING INPUT (MBH)	350		600	
NOTES	HEATING OUTPUT (MBH)	283.5		486	
	EADB (°F)	57		47.7	
	LADB (°F)	84		94.2	

### NOTES:

- 0-100% ECONOMIZER AND POWER EXHAUST.
- STAINLESS STEEL DRAIN PAN.
- DOUBLE WALL CONSTRUCTION AND HAIL GUARDS FOR CONDENSER COILS.
- 4" MERV 14 FILTERS.
- MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION.
- EXHAUST AND SUPPLY AIR SMOKE DETECTORS INSTALLED AND WIRED BY FIRE ALARM CONTRACTOR.
- PROVIDE 14" CURB FOR MOUNTING ON EXTERIOR EQUIPMENT PAD.
- NATURAL GAS PRE-HEAT COIL. HIGH MODULATING.
- DESIGN CONDITIONS: SUMMER: 95DEGF/76DEG F WINTER: -10DEGF
- VFD PROVIDED BY MANUFACTURER.
- HORIZONTAL SUPPLY AND RETURN CONNECTIONS.

## LOUVER SCHEDULE

UNIT	TAG	LVR-1		LVR-2	
		MANUFACTURER	GREENHECK	MANUFACTURER	GREENHECK
ELEC	MODEL NUMBER	ESD-435		ESD-435	
	SERVICE	EXHAUST		EXHAUST	
	WIDTH	28"		28"	
NOTES	HEIGHT	28"		28"	
	MIN FREE AREA (sq ft)	0.6		2.6	
	AIRFLOW (CFM)	350		1,330	
ELEC	MAX APD (in wg)	0.05		0.04	
		1,2,3,4		1,2,3	

### NOTES:

- DRAINABLE BLADE LOUVER, 4" DEPTH
- ALUMINUM BIRDSCREEN
- FINISH: CUSTOM COLOR TO MATCH PANEL. FINAL COLOR SELECTION BY ARCHITECT
- BLANK OFF BEHIND LOUVER TO 18" X 18" OPENING. MIN FREE AREA AND MAX APD ARE BASED ON 18" X 18" OPENINGS.

## DUCTLESS SPLIT SYSTEM SCHEDULE

UNIT	TAG - INDOOR UNIT	DS-1, DS-2	
		CU-1, CU-2	
ELEC	QUANTITY	2	
	MANUFACTURER	TRANE	
	INDOOR MODEL	TPKA0A0181HA70A	
NOTES	OUTDOOR MODEL	TRUZA018KA70NA	
	NOMINAL TON	1.5	
	INDOOR UNIT WEIGHT	29	
ELEC	OUTDOOR UNIT WEIGHT	100	
	V-PH-HZ	208-1-60	
	INDOOR MCA	1	
NOTES	OUTDOOR MCA	11	
	OUTDOOR MOCP	28	
	DISC	EC	
ELEC	SEER	18.5	
		1,2,3,4	

### NOTES:

- LOW AMBIENT KIT. INCLUDING AIR GUIDE FOR LOW AMBIENT COOLING AND HAIL GUARDS.
- SCHEDULED UNITS HAVE SINGLE POWER SUPPLY TO OUTDOOR UNIT WITH FEEDER TO INDOOR UNIT. SQUARE MEASURE MAIN POWER TO EACH UNIT COORDINATE WITH GC.
- PROVIDE 18" SUPPORT STAND. COORDIANTE FINAL LOCATION WITH ARCHITECTURAL AND SITE CIVIL DRAWINGS.
- DO NOT CONNECT SATELLITE PUMP FOR INDOOR UNIT. SIMILAR TO LUTER AND CONDENSATE PUMP WITH RESERVOIR AND SENSOR.

## FAN SCHEDULE

UNIT	TAG	EF-1		EF-2	
		MANUFACTURER	GREENHECK	MANUFACTURER	GREENHECK
ELEC	MODEL	SQ-98-VG		SQ-120-VG	
	WEIGHT	47		55	
	V-PH-HZ	115-1-60		115-1-60	
FAN	HP	1/4		1/2	
	DISCONNECT	MFR		MFR	
	CFM	350		1,330	
NOTES	EXTERNAL STATIC PRESSURE	.75"		.75"	
		1		1	

### NOTES:

- INTEGRAL BACKDRAFT DAMPER

## VAV BOX SCHEDULE

TAG	MANUFACTURER/MODEL	MAX CFM	MIN CFM	INLET	OUTLET	KW	V-PH-HZ	NOTES
VAV-01	PRICE SDV-10	740	255	10"	14/12.5	3.5	480-3-60	1,2
VAV-02	PRICE SDV-14	2000	550	14"	20/17.5	6.5	480-3-60	1,2
VAV-03	PRICE SDV-08	580	250	8"	12/10	3.5	480-3-60	1,2
VAV-04	PRICE SDV-12	1050	555	12"	16/15	7.5	480-3-60	1,2
VAV-05	PRICE SDV-08	400	400	8"	12/10	5	480-3-60	1,2
VAV-06	PRICE SDV-10	700	240	10"	14/12.5	3	480-3-60	1,2
VAV-07	PRICE SDV-08	350	125	8"	12/10	1.5	480-3-60	1,2
VAV-08	PRICE SDV-06	230	125	6"	12/8	1.5	480-3-60	1,2
VAV-09	PRICE SDV-08	415	415	8"	12/10	5	480-3-60	1,2
VAV-10	PRICE SDV-08	550	360	8"	12/10	5	480-3-60	1,2
VAV-11	PRICE SDV-06	280	280	6"	12/8	3.5	480-3-60	1,2
VAV-12	PRICE SDV-10	840	410	10"	14/12.5	5.5	480-3-60	1,2
VAV-13	PRICE SDV-06	130	130	6"	12/8	1.5	480-3-60	1,2
VAV-14	PRICE SDV-12	1425	1380	12"	16/15	17.5	480-3-60	1,2
VAV-15	PRICE SDV-10	800	800	10"	14/12.5	9.5	480-3-60	1,2
VAV-16	PRICE SDV-08	535	200	8"	12/10	2.5	480-3-60	1,2
VAV-17	PRICE SDV-06	110	110	6"	12/8	1.5	480-3-60	1,2
VAV-18	PRICE SDV-06	190	150	6"	12/8	2	480-3-61	1,2

### NOTES:

- SCR CONTROL
- CONTROL TRANSFORMER BY MANUFACTURER.

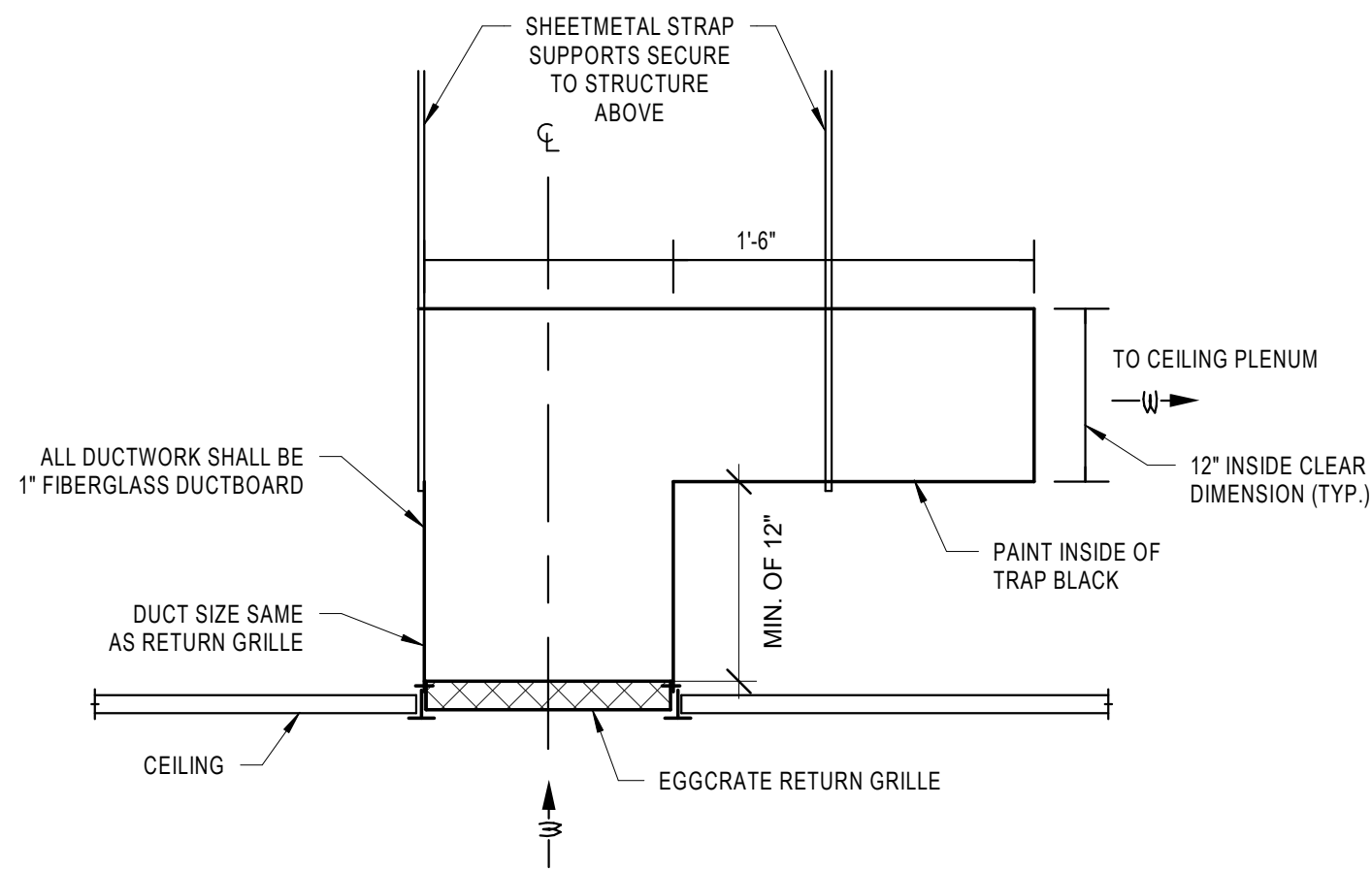
## DIFFUSER AND GRILLE SCHEDULE

TAG	NOM SIZE	NECK	MAX NC	TYPE	MFR	MODEL	FINISH	NOTES
D1	24 x 24	6"	20	SQUARE PLAQUE DIFFUSER	PRICE	SPD	WHITE	1, 2
D2	24 x 24	8"	20	SQUARE PLAQUE DIFFUSER	PRICE	SPD	WHITE	1, 2
D3	24 x 24	10"	20	SQUARE PLAQUE DIFFUSER	PRICE	SPD	WHITE	1, 2
DL-1	30 x 10	-	20	HIGH CAPACITY DRUM LOUVER	PRICE	HCD	PREPARED ALUMINUM	1, 2, 4
E1	6 x 6	-	20	SINGLE DEFLECTION	PRICE	530	WHITE	1, 2, 3
E2	24 x 12	-	20	SINGLE DEFLECTION	PRICE	530	WHITE	1, 2, 3
E3	8 x 8	-	20	SINGLE DEFLECTION	PRICE	530	WHITE	1, 2, 3
R1	24 x 12	-	20	ECONOMIZER GRILLE	PRICE	80	WHITE	1, 2
R2	14 x 14	-	20	SINGLE DEFLECTION	PRICE	530	PRIME COAT	1, 2, 3
R3	96 x 24	-	28	HEAVY DUTY RETURN GYM GRILLE: 1/2" SPACING 0 DEG DEFLECTION	PRICE	97	PRIME COAT	1, 2

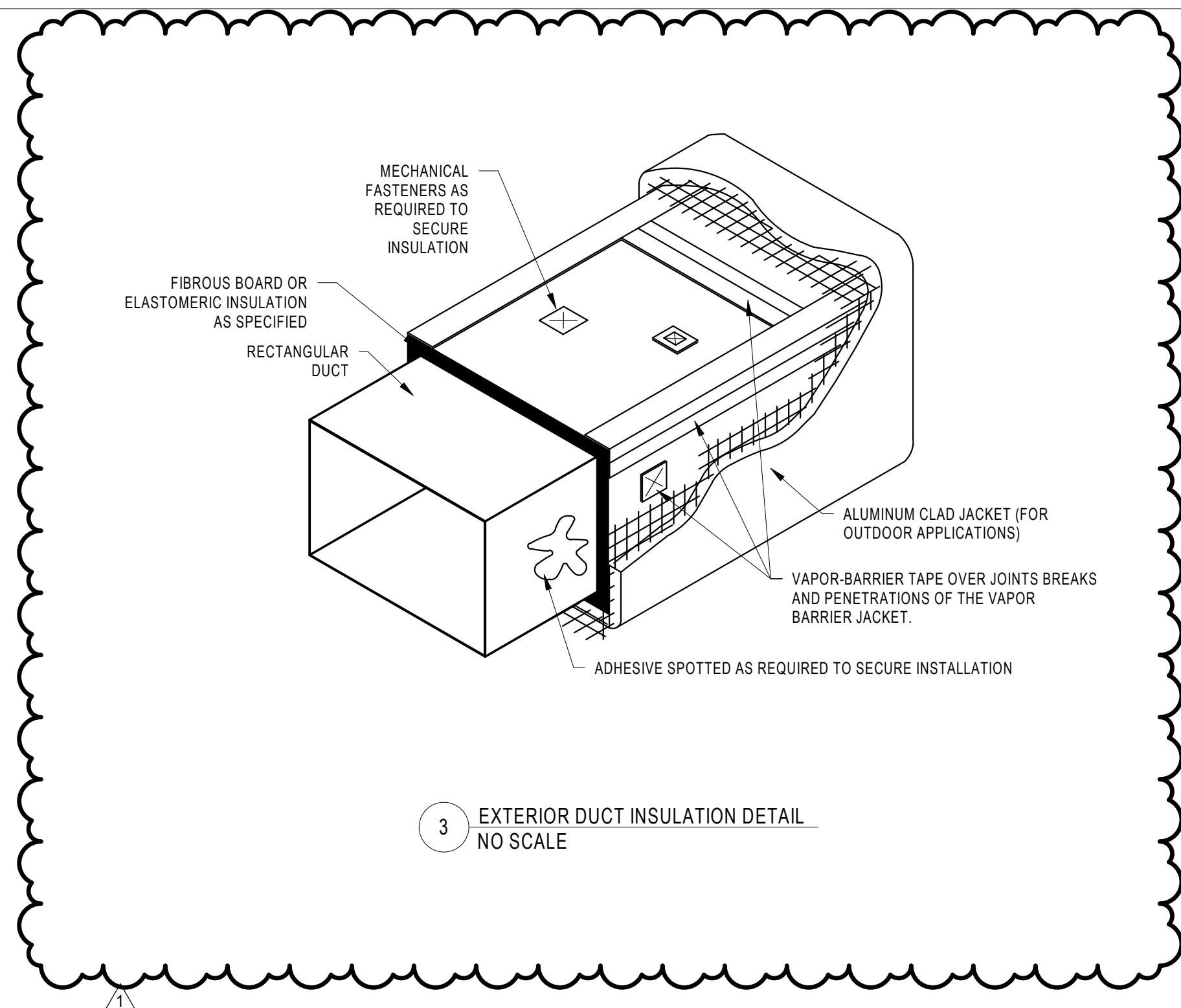
### NOTES:

- CONFIRM FINAL FINISHES WITH ARCHITECT.
- PROVIDE FRAME STYLE APPROPRIATE FOR CEILING TYPE (I.E. LAY-IN, SURFACE MOUNT, SIDEWALL, ETC.) REFER TO DRAWINGS AND ARCHITECTURAL CEILING PLANS FOR LOCATIONS. COLOR AND FINISH TO BE APPROVED BY ARCHITECT.
- 45 DEGREE DEFLECTION PATTERN.
- HEAVY DUTY OPPOSED BLADE DAMPER.

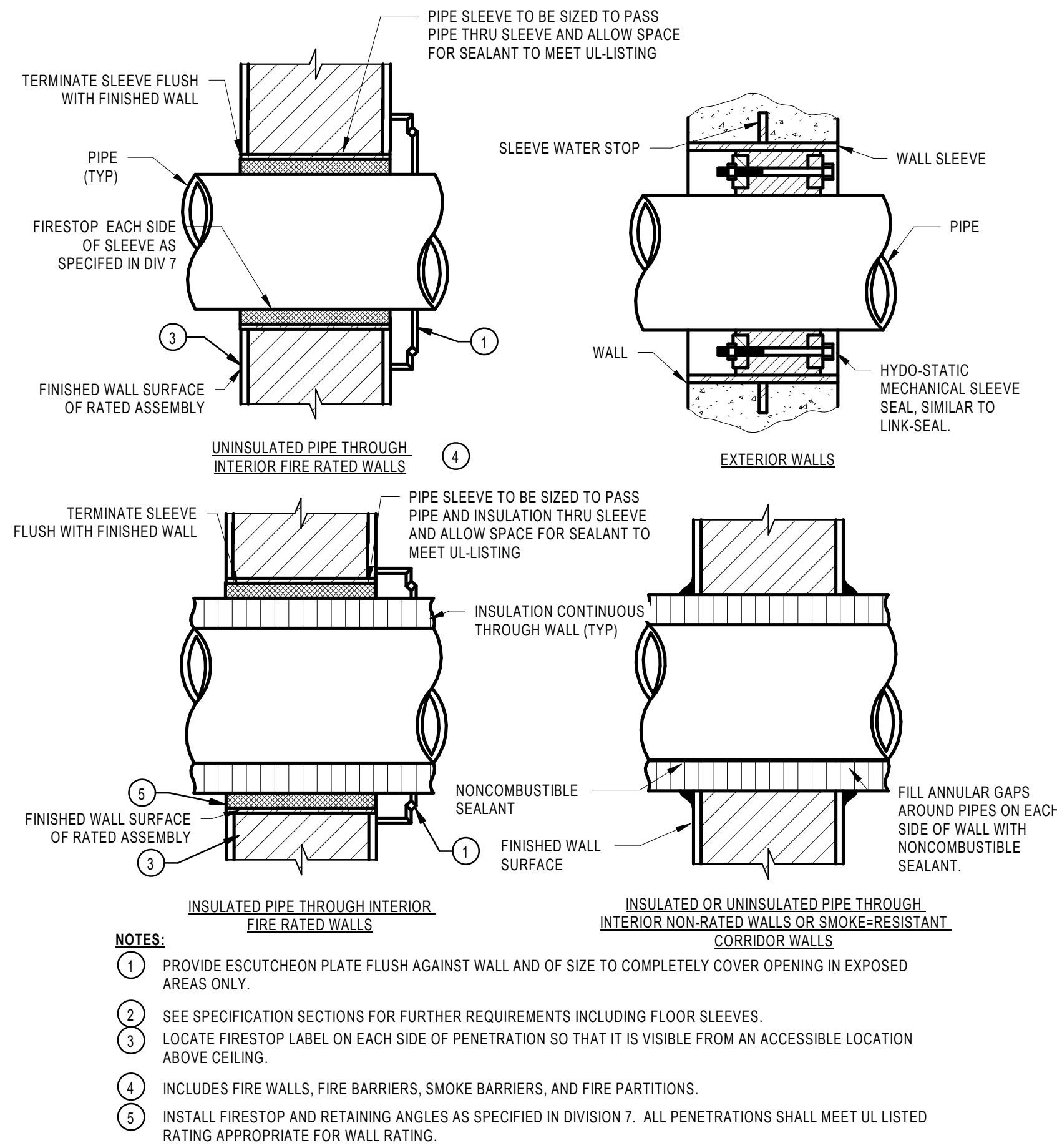




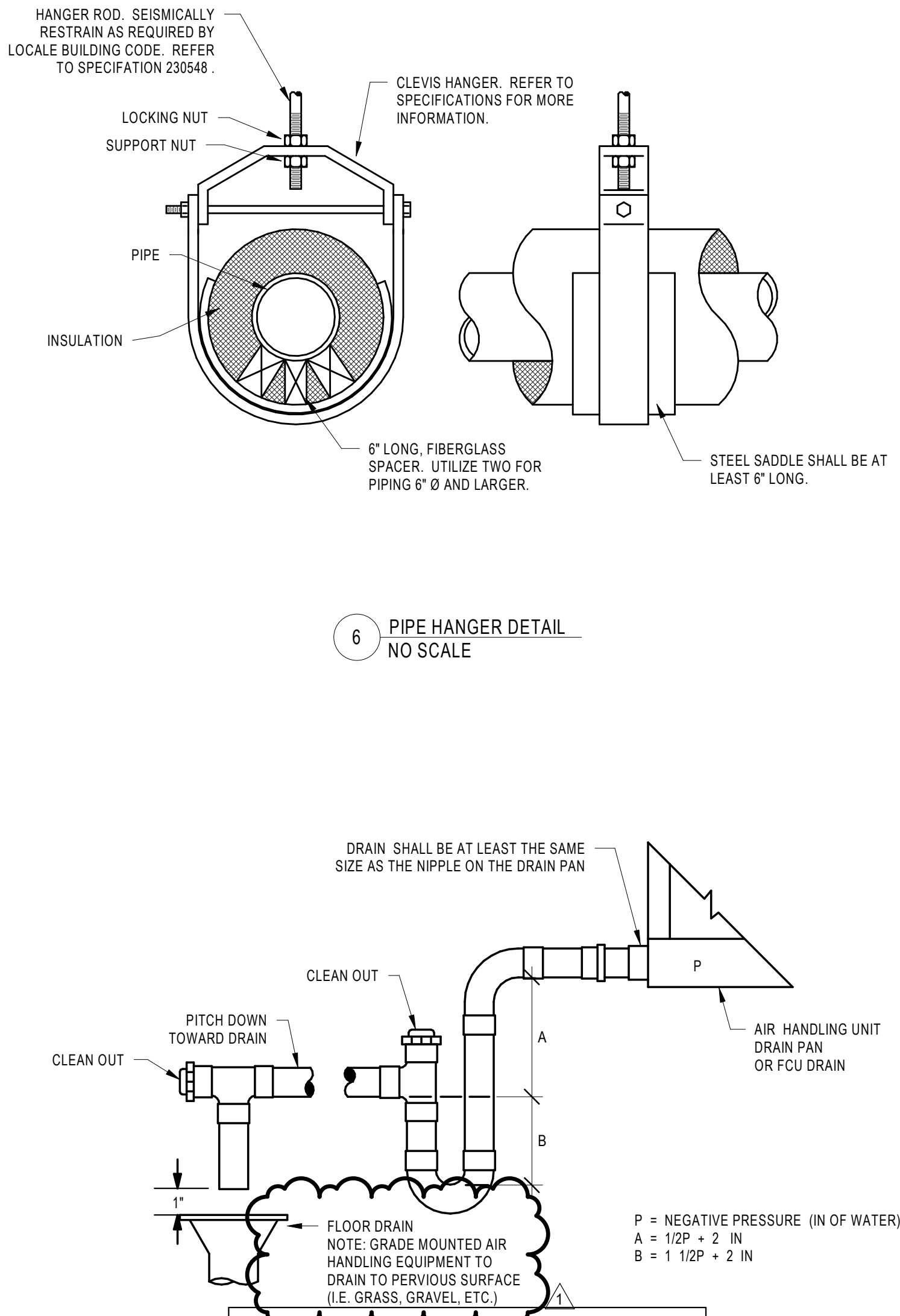
7 RETURN GRILLE SOUND TRAP DETAIL  
NO SCALE



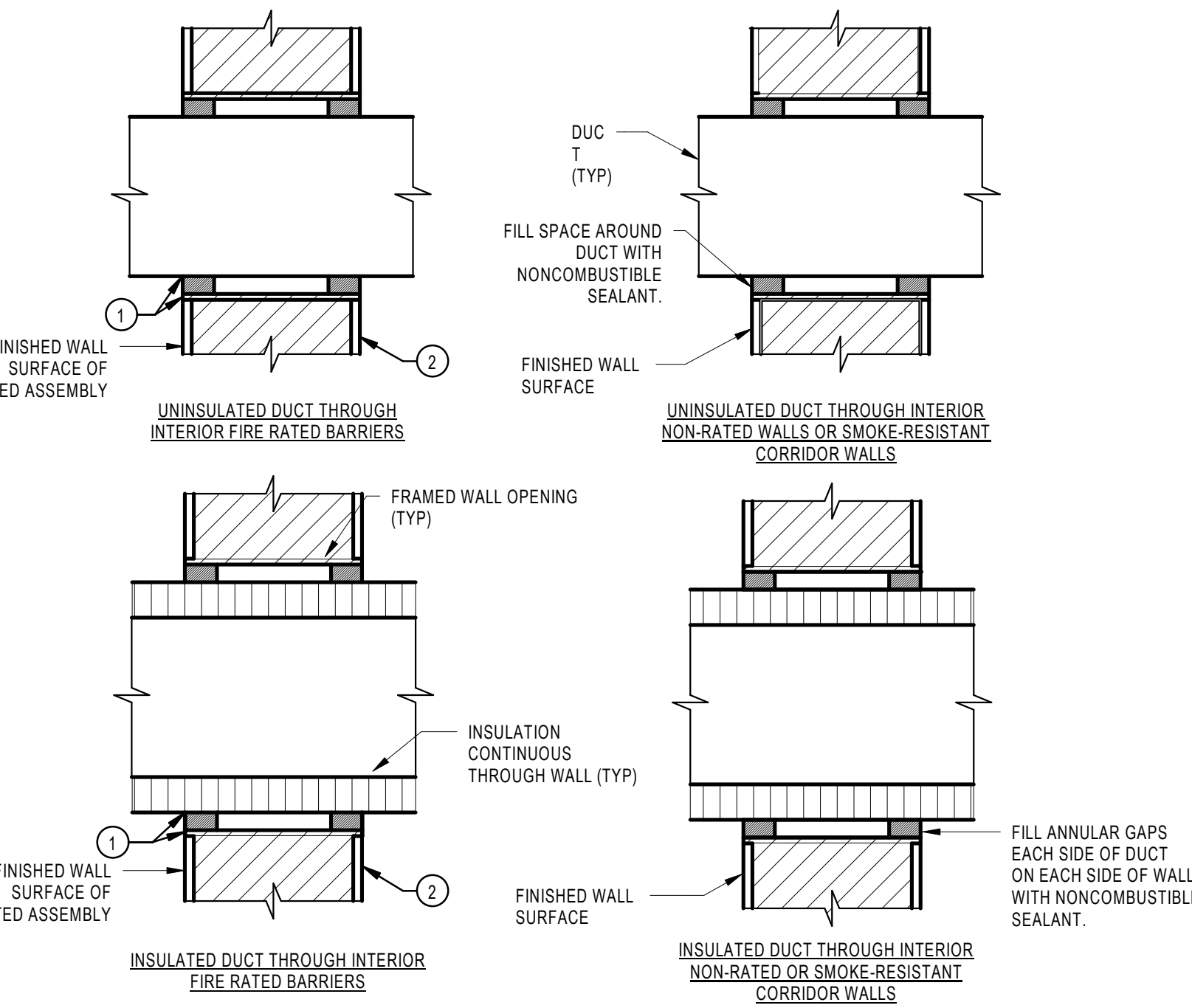
3 EXTERIOR DUCT INSULATION DETAIL  
NO SCALE



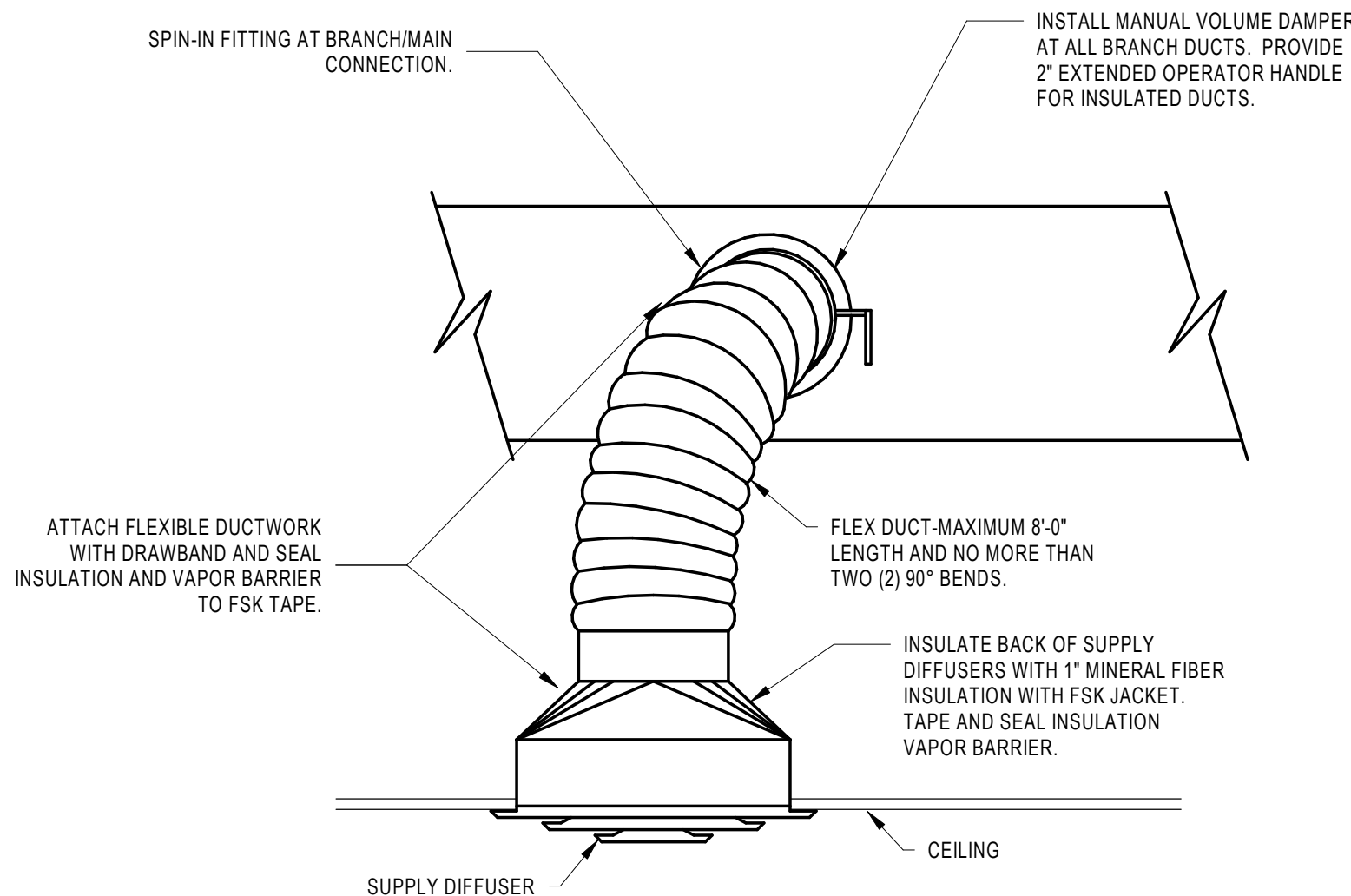
9 PIPE PENETRATION DETAILS  
NO SCALE



5 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP DETAIL  
NO SCALE

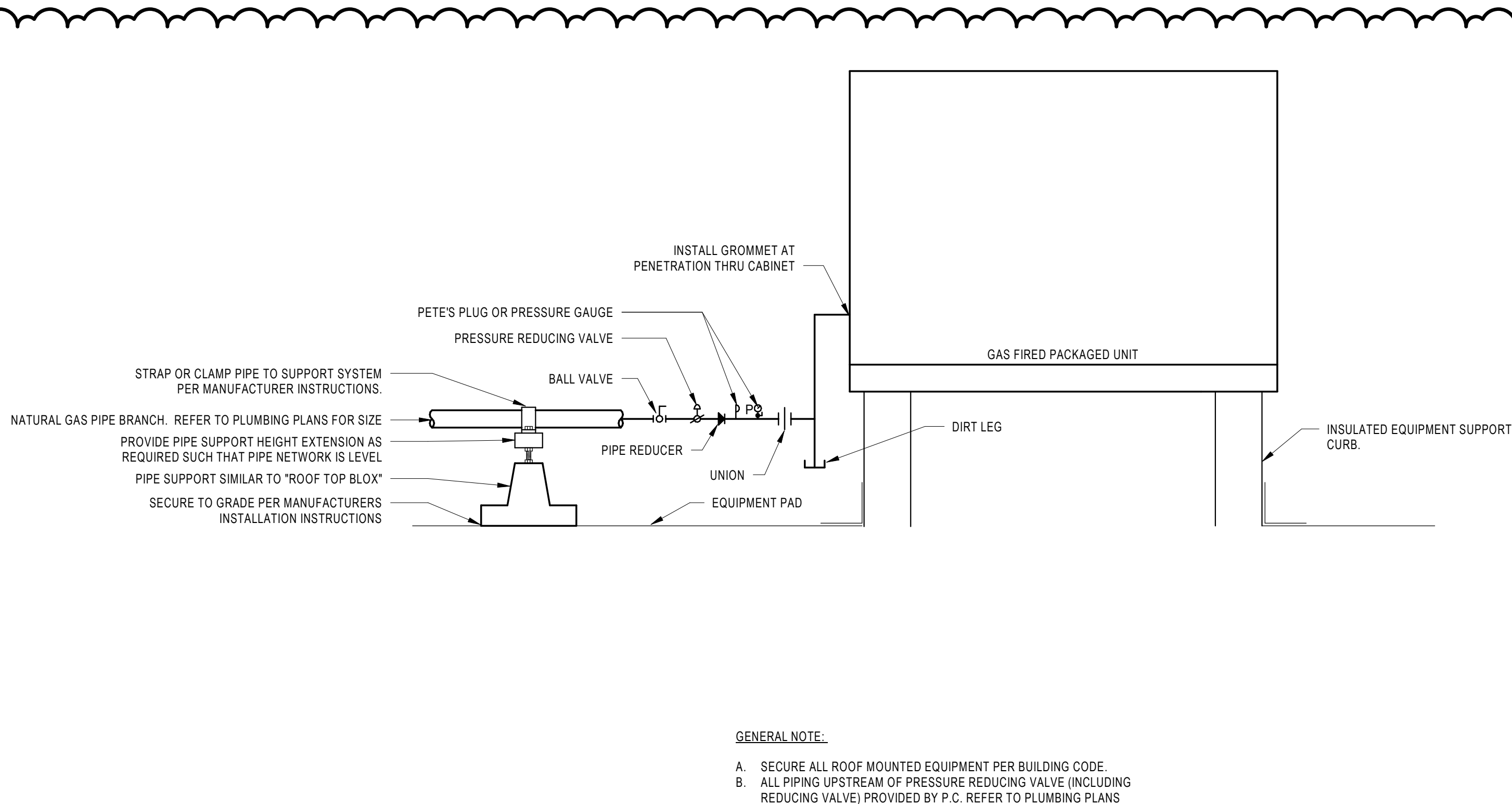


2 DUCT PENETRATION DETAIL  
NO SCALE



- GENERAL DETAIL NOTES:**
- FLEXIBLE DUCTWORK BENDS SHALL NOT BE LESS THAN 1.5 TIMES THE DUCT DIAMETER.
  - INSULATION AND VAPOR BARRIERS PRESENT ON FACTORY-FABRICATED DUCTS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SECURED WITH A DRAW BAND. TAPE AND SEAL ALL JOINTS AND SEAMS WITH FSK TAPE TO MAINTAIN VAPOR BARRIER.
  - SUPPORT FLEXIBLE DUCTWORK FROM STRUCTURE. DO NOT SUPPORT FLEXIBLE DUCTWORK FROM ADJACENT ABOVE CEILING UTILITIES (DUCTWORK, PIPING, CONDUITS, ETC.)

1 CEILING DIFFUSER/GRILLE DETAIL  
NO SCALE



8 AIR HANDLING UNIT GAS PIPING DETAIL  
NO SCALE



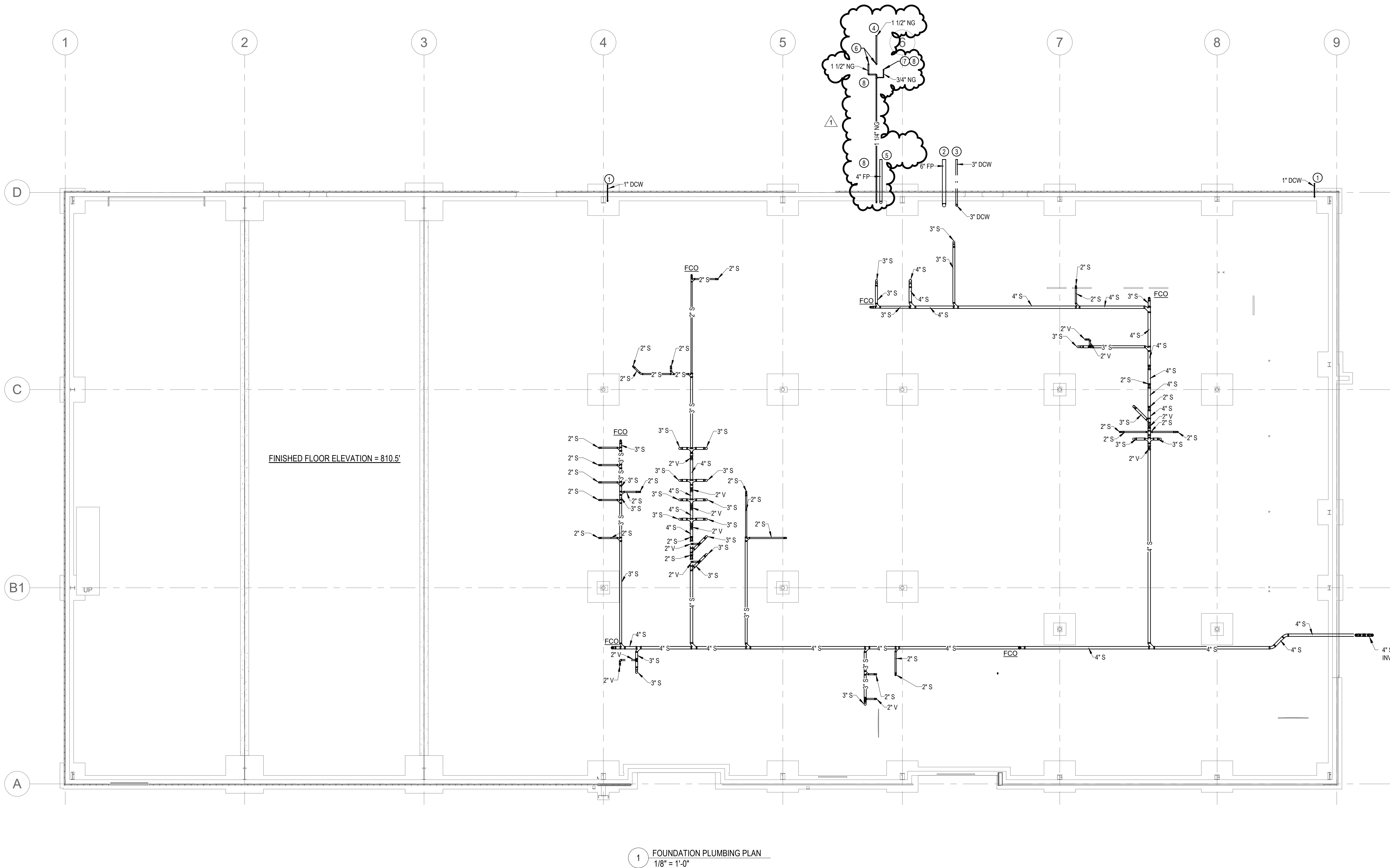
MECHANICAL AND PLUMBING ABBREVIATIONS			
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AE	ARCHITECT AND ENGINEER	FH	FIRE HOSE OR FUME HOOD
AC OR ACU	AIR CONDITIONING UNIT OR AIR COMPRESSOR	FHC	FIRE HOSE CABINET
ACCU	AIR COOLED CONDENSING UNIT	FIN	FINISH
ACD	AIR CONDITIONING CONDENSATE DRAIN	FLA	FULL LOAD AMPS
AD	ACCESS DOOR	FLR	FLOOR
ADJ	ADJUSTABLE OR ADJACENT	FOOT	FUEL OIL DAY TANK
AFCV	AIRFLOW CONTROL VALVE	FOP	FUEL OIL PUMP
AF	ABOVE FINISHED FLOOR	FOR	FUEL OIL RETURN
AFMS	AIR FLOW MEASURING STATION	FOS	FUEL OIL SUPPLY
AHU	AIR HANDLING UNIT	FOST	FUEL OIL STORAGE TANK
APD	AIR PRESSURE DROP	FV	FUEL OIL VENT
APPROX	APPROXIMATE	FP	FIRE PROTECTION
AR	AIR RECEIVER	FPB	FAN POWERED BOX
ARCH	ARCHITECT	FPC	FIRE PROTECTION CONTRACTOR
AS	AIR SEPARATOR	FRM	FEET PER MINUTE
ATM	ATMOSPHERE	FPS	FEET PER SECOND
AV	ACID VENT	FPST	FIRE PROTECTION STORAGE TANK
AVMS	AIR VOLUME MEASURING STATION	FS	FLOW SWITCH
AW	ACID WASTE	FT	FEET OR FLASH TANK
		FTG	FOOTING OR FITTING
		FTR	FIN TUBE RADIATION
B	BOILER	G	GAS, NATURAL
BCU	BLOWER COIL UNIT	GA	GAUGE
BDD	BACKDRIFT DAMPER	GAL	GALLON
BHP	BRAKE HORSEPOWER	GALV	GALVANIZED
BI	BACKWARD INCLINED	GC	GENERAL CONTRACTOR
BLDG	BUILDING	GCO	GROUND CLEAN OUT
BOT	BOTTOM	GH	GRAVITY HOOD
BP	BRINE PUMP	GPH	GALLONS PER HOUR
BS	BULK SALT STORAGE	GPM	GALLONS PER MINUTE
BTU	BRITISH THERMAL UNIT	GV	GAS NATURAL VENT
BTUH	BTU PER HOUR		
CA	COMPRESSED AIR	H	HUMIDIFIER, HUMIDITY OR HEIGHT
CAP	CAPACITY	HC	HEATING COIL
CAV	CONSTANT AIR VOLUME	HCP	HEATING COIL PUMP (HOT WATER)
CC	COOLING COIL	HD	HEAD
CCP	COOLING COIL PUMP	HE	HEAT EXCHANGER
CDS	CONDENSATE PUMP DISCHARGE	HGT	HEIGHT
CENTRIF	CENTRIFUGAL	HO	HUB OUTLET
CTM	CURB FEET PER MINUTE	HOA	HAND-OFF-AUTOMATIC
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED	HORZ	HORIZONTAL
CH	CHILLER	HOSP	HOSPITAL
CI	CAST IRON	HP	HORSEPOWER OR HEATPUMP
CO	CLEAN OUT	HPR	HIGH PRESSURE CONDENSATE RETURN
CO2	CARBON DIOXIDE	HPS	HIGH PRESSURE STEAM
COLMAN	COLUMAN	HR	HOUR
COM	CARBON DIOXIDE MANIFOLD	HRC	HEAT RECOVERY COIL
COMP	COMPRESSOR	HTR	HEATER
CONN	CONCRETE CONNECTION	HVAC	HEATING, VENTILATION AND AIR CONDITIONING
CONST	CONSTRUCTION	HW	HOT WATER
CONT	CONTINUOUS	HWC	HOT WATER CIRCULATING PUMP
CP	CONDENSATE PUMP	HWP	HEATING HOT WATER PUMP
CPD	CONDENSATE PUMP DISCHARGE	HWR	HEATING HOT WATER RETURN
CUH	CABINET UNIT HEATER	HWS	HEATING HOT WATER SUPPLY
CU	CENTRAL VACUUM	HX	HEAT EXCHANGER
CW	COLD WATER	HZ	HERTZ
CWM	COLD WATER MAKE-UP		
CWT	CHILLED WATER RETURN	IA	INSTRUMENT AIR
CWR	CHILLED WATER RETURN	IAC	INSTRUMENT AIR COMPRESSOR
CWS	CHILLED WATER SUPPLY	IAD	INSTRUMENT AIR DRYER, DEAD
		ID	INSIDE DIAMETER OR DIMENSION
D	DIFFUSER OR DAMPER	IFB	INTEGRAL FACE AND BYPASS
DB	DECIBELS OR DRY BULB	IM	IN-HOUSE OXYGEN MANIFOLD
DCV	DOUBLE CHECK VALVE	IN	INCHES
DCWBP	DOMESTIC COLD WATER BOOSTER PUMP	INCL	INCLUDE
DD	DIAL DUCT	INSUL	INSULATED
DDC	DIRECT DIGITAL CONTROL	INT	INTERIOR
DEA	DEAERATOR	INV	INVERT
DEFL	DEFLECTION	IP-S	INTERNATIONAL PIPE SIZING
DEG	DEGREE	ISOL	ISOLATION
DEPT	DEPARTMENT	JT	JOINT
DHWPB	DOMESTIC HOT WATER BOOSTER PUMP	KAC	KITCHEN EQUIPMENT CONTRACTOR
DI	DIAMETER	KW	KILOWATTS
DIA	DISCONNECT		
DISC	DISCHARGE	L	LENGTH
DISCH	DISCHARGE	LAC	LAB AIR COMPRESSOR
DS	DOWNSPOUT	LAD	LAB AIR DRYER
DSWBP	DOMESTIC SOFT WATER BOOSTER PUMP	LAN	LOCAL AREA NETWORK
DUC	DOOR UNDER CUT	LAT	LEAVING AIR TEMPERATURE
DWG	DRAWING	LAV	LAVATORY
DW	DISTILLED WATER	LBD	LINEAR BAR DIFFUSER
DWBP	DOMESTIC WATER BOOSTER PUMP	LBS	POUNDS
DWH	DOMESTIC WATER HEATER	LD	LINEAR DIFFUSER
EA	EXHAUST AIR	LFD	LAMINAR FLOW DIFFUSER
EAT	EXTENSING AIR TEMPERATURE	LFT	LEAVING FLUID TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER	LOC	LOCATION
EC	ELECTRICAL CONTRACTOR	LOR	LOW PRESSURE CONDENSATE RETURN
ECC	ENVIRONMENTAL CONTROL CONTRACTOR	LPS	LOW PRESSURE STEAM
EGG	EGG CRATE GRILLE	LVG	LEAVING
ED	EXHAUST DIFFUSER	LVP	LAB VACUUM PUMP
EDC	ELECTRIC DUCT COIL	LWT	LEAVING WATER TEMPERATURE
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST AIR FAN	MA	MEDICAL AIR
EFT	ENTERING FLUID TEMPERATURE	MAC	MEDICAL AIR COMPRESSOR
EG	EXHAUST GRILLE OR ETHYLENE GLYCOL	MAD	MEDICAL AIR DRYER
ELEC	ELECTRIC	MAI	MEDICAL AIR INTAKE
ELEV	ELEVATION	MAT	MIXED AIR TEMPERATURE
EMER	EMERGENCY	MAX	MAXIMUM
ENG	EXTRUDED METAL GRILLE	MB	MOP BASIN
ENCL	ENCLOSURE	MBH	BTU/HR X 100
ENTR	ENTERING	MC	MECHANICAL CONTRACTOR
EOM	END OF MAIN DRIP	MCA	MINIMUM CIRCUIT AMPACITY
EOA	EQUIPMENT AIR	MCC	MOTOR CONTROL CENTER
EQAC	EQUIPMENT AIR COMPRESSOR	MD	MOTORIZED DAMPER
EQAI	EQUIPMENT AIR INTAKE	MECH	MECHANICAL
EQUIP	EQUIPMENT	MFR	MANUFACTURER
EQV	EQUIPMENT VACUUM	MH	MANHOLE
EQVP	EQUIPMENT VACUUM PUMP	MIN	MINIMUM
EQV V	EQUIPMENT VACUUM VENT	MISC	MISCELLANEOUS
ERP	ELECTRIC RADIANT PANEL	MOC	MAXIMUM OVERCURRENT PROTECTION
ES	EMERGENCY SHOWER	MPSR	MEDIUM PRESSURE CONDENSATE RETURN
ESP	EXTERNAL STATIC PRESSURE OR ELEVATOR SUMP PUMP	MPS	MEDIUM PRESSURE STEAM
ET	EXPANSION TANK	MTD	MOUNTED
EUH	ELECTRIC UNIT HEATER	MV	MEDICAL VACUUM
EW	EMERGENCY EYEWASH	MVP	MEDICAL VACUUM PUMP
ENC	ELECTRIC WATER COOLER		
EWT	ENTERING WATER TEMPERATURE	N	NORTH OR NITROGEN
EXH	EXHAUST	NA	NOT APPLICABLE
EXIST	EXISTING	NC	NORMALLY CLOSED OR NOISE CRITERIA
EXT	EXTENDING	NIC	NOT IN CONTRACT
		NO	NITROGEN MANIFOLD
F	DEGREES FAHRENHEIT	NOM	NOMINAL OR NITROUS OXIDE MANIFOLD
F&B	FACE & BYPASS	NTS	NOT TO SCALE
F&T	FLOAT AND THERMOSTATIC TRAP		
F/A	FIRE ALARM	O	OXYGEN
F&SD	FIRE AND SMOKE DAMPER	OA	OUTSIDE AIR
FCO	FLOOR CLEAN OUT		
FCU	FLEXIBLE CONNECTION		
FD	FAN COIL UNIT		
FD	FLOOR DRAIN OR FIRE DAMPER		

VALVE AND FITTING SYMBOLS			
TAGS	PLAN VIEWS	DETAIL VIEW	
V1			CALIBRATED BALANCE VALVE
V2			PIPING FLEXIBLE CONNECTION
V3			PIPE TURNED UP (UNLESS NOTED OTHERWISE)
V4			PIPE TURNED DOWN
V5			PIPE OUT TOP
V6			PIPE OUT BOTTOM
V7			THREADED NIPPLE WCAP
V8			PIPE WITH BLIND FLANGE
V9			CONCENTRIC REDUCER
V10			ECCENTRIC REDUCER
V11			CHECK VALVE
V12			UNION
V13			GATE VALVE
V14			BALL VALVE
V15			GLOBE VALVE
V16			BUTTERFLY VALVE
V17			TEMPERATURE CONTROL - 2 WAY MODULATING VALVE
V18			TEMPERATURE CONTROL - 2 WAY 2 POSITION MODULATING VALVE
V19			TEMPERATURE CONTROL - 3 WAY MODULATING VALVE
V20			TEMPERATURE CONTROL - 3 WAY 2 POSITION MODULATING VALVE
V21			SAFETY RELIEF VALVE
V22			STRAINER
V23			FLOW METER
V24			FLOOR DRAIN
V25			ZONE CONTROL VALVE (OS&Y)
V26			AUTOMATIC FLOW CONTROL VALVE
V27			FLOW MEASURING DEVICE
V28			MANUAL AIR RELIEF VENT
V29			AUTOMATIC AIR RELIEF VENT
V30			LUBRICATED PLUG VALVE
V31			STEAM PRESSURE REDUCING VALVE
V32			ANGLE VALVE
V33			GAS PRESSURE RELIEF VALVE
V34			REFRIGERANT HOT GAS BY-PASS VALVE
V35			SHUT-OFF COOK (HYDRONICS)
V36			SOLENOID VALVE
V37			REFRIGERANT EXPANSION VALVE
V38			WATER PRESSURE REDUCING/REGULATING VALVE
V39			COMBINATION WATER PRESSURE RELIEF AND REDUCING VALVE
V40			STEAM TRAP
V41			DIELECTRIC UNION BETWEEN STEEL AND COPPER
V42			STRAINER (STEAM)
V43			PRESSURE AND TEMPERATURE PLUG
V44			REFRIGERANT SIGHT GLASS
V45			THERMOMETER
V46			(P=PRESS V=VAC T=TEMP) GAUGE
V47			SENSOR (T=TEMP H=HUMIDITY)
V48			FLOW SWITCH
V49			CLEAN OUT
V50			WATER HAMMER ARRESTOR OR ALARM PRESSURE/VACUUM SWITCH
V51			INDICATED EXPANSION LOOP (COLD SPRING)
V52			ANCHOR
V53			GUIDE
V54			REDUCED PRESSURE BACKFLOW PREVENTER
V55			ATMOSPHERIC VACUUM BREAKER
V56			PRESSURE VACUUM BREAKER
V57			REFRIGERANT SHUT-OFF VALVE
V58			DOMESTIC WATER TEMPERATURE REGULATING VALVE
V59			EXPANSION JOINT
V60			DIFFERENTIAL SWITCH
V61			CENTRAL VACUUM OUTLET

FLOOR PLAN SYMBOLS	
A. GENERAL NOTE	1. PLAN NOTE LIST

PLUMBING PIPING SYMBOLS		
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER RETURN
		STORM
		SANITARY
		FIRE PROTECTION
		NATURAL GAS
<b>GENERAL NOTES</b> (REQUIRED TO COMPLETE THE SCOPE OF WORK)		
1. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.		
2. ALL CONFLICTS SHALL BE BROUGHT TO THE ARCHITECTS OR ENGINEERS ATTENTION IN ORDER TO ALLOW A CLARIFICATION TO BE ISSUED. ANY WORK COMPLETED WITHOUT THE CLARIFYING INFORMATION IS AT THE CONTRACTORS FINANCIAL RISK.		
3. THE CONTRACTOR SHALL PROVIDE AND FURNISH ALL MATERIALS AND ACCESSORIES TO CREATE A FULLY OPERATIONAL, CODE COMPLIANT AND TESTED SYSTEM. ALL MATERIALS AND ACCESSORIES REQUIRED TO CREATE THE FULLY OPERATIONAL SYSTEM SHALL BE INCLUDED IN THE COST OF THIS PROJECT.		
4. THESE DRAWINGS ARE DIAGNOSTIC IN NATURE. THE CONTRACTOR MAY AT THEIR OPTION MODIFY THE PIPE ROUTING IN ORDER TO CREATE A SYSTEM THAT MEETS THE INTENT OF THIS SET OF CONSTRUCTION DOCUMENTS.		
5. THE CONTRACTOR SHALL INCLUDE ALL ITEMS THAT ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH THE APPLICABLE CODES, AND MANUFACTURES INSTALLATION RECOMMENDATIONS AND OR REQUIREMENTS.		
6. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS SHALL BE PROVIDED AS PART OF THE SCOPE OF THIS PROJECT.		
7. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEERS REVIEW AND PRIOR WRITTEN APPROVAL.		
8. PROVIDE FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS. FIRE STOPPING MATERIALS AND METHODS SHALL BE PER LOCAL AND STATE CODES AND REQUIREMENTS.		
9. ALL PLUMBING SYSTEMS SHALL BE INSTALLED PER THE CURRENT PLUMBING CODE FOR THE LOCATION OF THE WORK BEING INSTALLED.		
10. ALL PLUMBING EQUIPMENT, PIPING, FIXTURES, AND PIPE ACCESSORIES SHALL BE NSF 61, ANNEX G COMPLIANT.		
11. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM SHALL COMPLY WITH A 2550 FLAME SMOKE RATING. ANY EXISTING PIPING DISCOVERED WITHIN A RETURN AIR PLENUM THAT DOES NOT COMPLY WITH THIS REQUIREMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR FURTHER CLARIFICATION.		
12. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WATER AND WEATHER TIGHT BY THE APPROPRIATE TRADE COMPETENT IN COMPLETING THIS WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.		
13. ALL VENT THROUGH ROOF (VTR) LOCATIONS SHALL BE FIELD VERIFIED IN REGARDS TO ANY OUTDOOR INTAKE. LOCATION OF VTR SHALL BE NO LESS THAN AS REQUIRED BY THE LOCAL OR STATE CODES.		
14. DO NOT ATTACH ANY CONSTRUCTION TO THE ROOF DECK JOIST BRIDGING, JOIST CROSS BRACING, PIPING, CONDUIT, DUCTWORK OR ANY OTHER NON-STRUCTURAL ITEM.		
15. DO NOT WELD OR DRILL INTO STRUCTURAL STEEL OR JOIST; INSTEAD USE CLAMPS, TIE WIRE, THRU-BOLTS WITH WASHERS.		
16. DO NOT USE ANY PVC, PLASTIC, ETC. IN PLENUM OR DEMISING WALLS UNLESS FIRE WRAPPED.		
17. ALL WOOD BLOCKING AND NAILERS, CONCEALED OR NOT SHALL BE FIRE RETARDANT TREATED.		
18. DO NOT PENETRATE BUILDING WALLS FOR ANY DUCTING OR VENTING; ROUTE THROUGH ROOF USING OWNERS ROOFING CONTRACTOR.		
19. VENT THROUGH ROOF INSTALLATION. ALL ROOFING WORK SHALL BE COMPLETED BY THE GENERAL CONTRACTORS ROOFING CONTRACTOR. THE COST SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.		
20. PIPING BELOW GROUND SHALL BE SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC. NO-HUB PIPING OR FERNCO CONNECTIONS ARE NOT PERMITTED BELOW GRADE.		
21. ALL PIPING SHALL BE PROPERLY SUSPENDED BY THE STRUCTURE PER THE LOCAL CODES.		
22. NO SANITARY WASTE OR VENT, HOT OR COLD WATER SHALL BE ALLOWED TO BE INSTALLED IN THE DEMISING WALLS.		
23. ALL INSULATED PIPING SHALL BE WITH PLENUM RATED MATERIALS.		
24. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS OR TRAP GUARDS.		
25. GAS PIPING SUPPORTED ON THE ROOF SHALL BE PROVIDED FREE FLOATING PREFABRICATED SUPPORTS OR EQUIPMENT SUPPORTS WITH ROLLER ASSEMBLIES. WOOD SUPPORTS WILL NOT BE PERMITTED.		
26. ALL GAS PIPING SHALL BE PROVIDED PIPE LABELS IDENTIFYING THE GAS PRESSURE.		
27. ALL GAS PIPING SHALL BE INSTALLED PER THE LOCAL CODES FOR MATERIALS AND INSTALLATIONS REQUIREMENTS.		
28. ALL SHUT-DOWN OF UTILITIES AND FIRE PROTECTION SYSTEMS SHALL BE ARRANGED WITH NO LESS THAN SEVEN (7) DAYS NOTICE TO THE OWNER. WORK MAY NOT COMMENCE UNLESS WRITTEN APPROVAL IS PROVIDED BY THE OWNER.		
29. ALL DOMESTIC WATER BRANCH PIPES SERVING FIXTURES OR EQUIPMENT WITH FAST ACTING OR ELECTRONIC VALVES SHALL BE PROVIDED WATER HAMMER ARRESTORS.		
30. ALL BRANCH PIPES FROM DOMESTIC WATER MAINS SHALL BE PROVIDED QUARTER TURN FULL PORT BALL VALVES ON THE BRANCH PIPE JUST ADJACENT TO THE MAIN.		

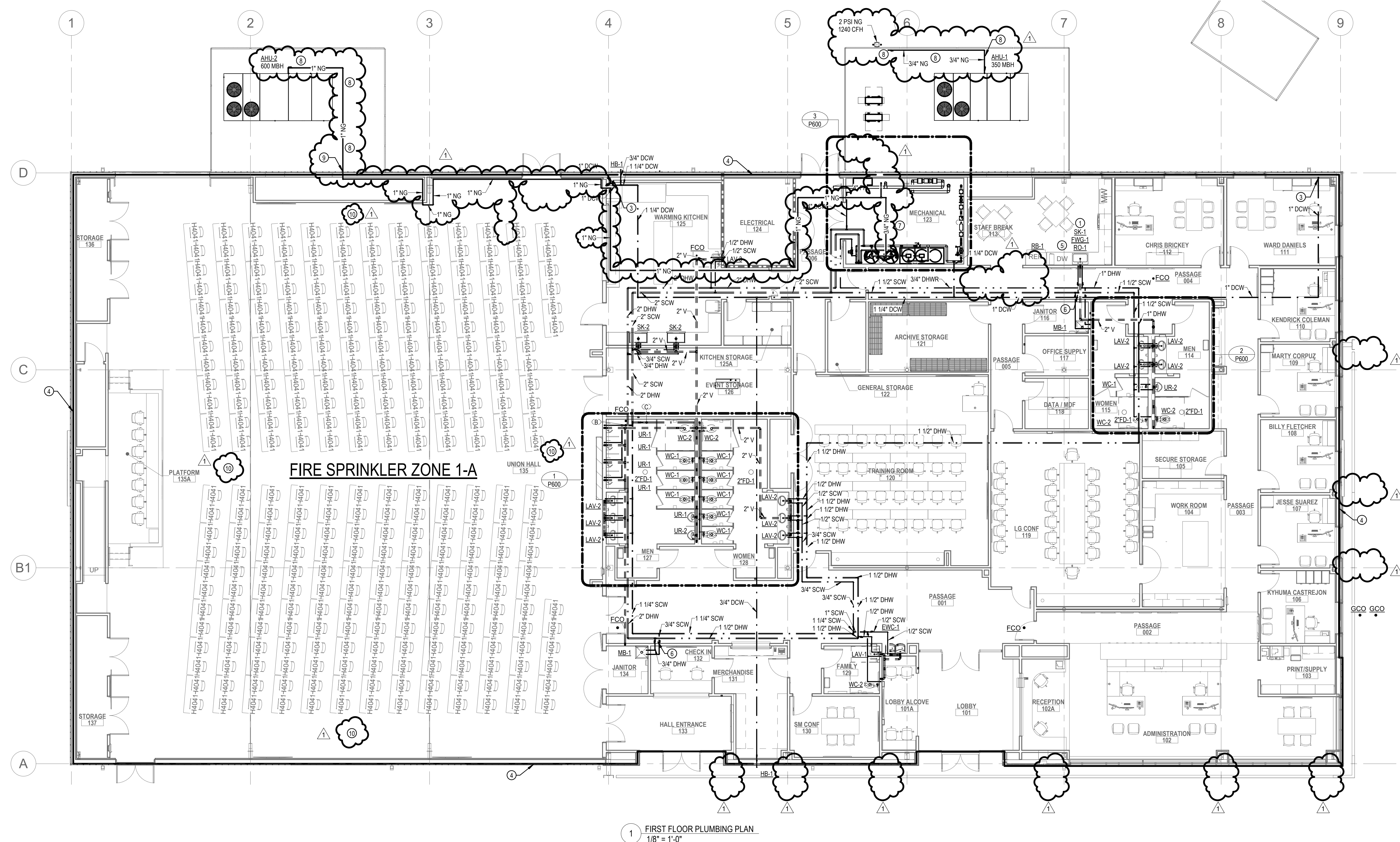




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- I. ALL PLUMBING EQUIPMENT, PIPING, FIXTURES, AND PIPE ACCESSORIES SHALL BE NSF 61, ANNEX G COMPLIANT.
- J. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM SHALL COMPLY WITH A 25/50 FLAME SMOKE RATING.
- K. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WATER AND WEATHER TIGHT BY THE APPROPRIATE TRADE COMPETENT IN COMPLETING THIS WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.
- L. ALL VENT THROUGH ROOF (VTR) LOCATIONS SHALL BE FIELD VERIFIED IN REGARDS TO ANY OUTDOOR INTAKE. LOCATION OF VTR SHALL BE NO LESS THAN AS REQUIRED BY THE LOCAL OR STATE CODES.
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- O. DO NOT USE ANY PVC, PLASTIC, ETC. IN PLENUM OR DEMISING WALLS UNLESS FIRE WRAPPED. ALL WOOD BLOCKING AND NAILERS, CONCEALED OR NOT SHALL BE FIRE RETARDANT TREATED.
- P. DO NOT PENETRATE BUILDING WALLS FOR ANY DUCTING OR VENTING; ROUTE THROUGH ROOF USING GENERAL CONTRACTORS ROOFING CONTRACTOR.
- Q. VENT THROUGH ROOF INSTALLATION; ALL ROOFING WORK SHALL BE COMPLETED BY THE GENERAL CONTRACTORS ROOFING CONTRACTOR. THE COST SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.
- R. PIPING BELOW GROUND SHALL BE SERVICE-WEIGHT CAST IRON OR SCHEDULE 40 PVC. NO-HUB PIPING OR FENOCO CONNECTIONS ARE NOT PERMITTED BELOW GRADE.
- S. ALL PIPING SHALL BE PROPERLY SUSPENDED BY THE STRUCTURE PER THE LOCAL CODES.
- T. ALL PIPING INSULATED WITHIN A PLENUM RETURN SHALL BE WITH PLENUM RATED MATERIALS.
- U. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS OR TRAP GUARDS.
- V. GAS PIPING SUPPORTED ON THE ROOF SHALL BE PROVIDED FREE FLOATING PREFABRICATED SUPPORTS OR EQUIPMENT SUPPORTS WITH ROLLER ASSEMBLIES. WOOD SUPPORTS WILL NOT BE PERMITTED.
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- Y. ALL SHUT-DOWN OF UTILITIES AND FIRE PROTECTION SYSTEMS SHALL BE ARRANGED WITH NO LESS THAN SEVEN (7) DAYS NOTICE TO THE OWNER. WORK MAY NOT COMMENCE UNLESS WRITTEN APPROVAL IS PROVIDED BY THE OWNER.
- Z. ALL DOMESTIC WATER BRANCH PIPES SERVING FIXTURES OR EQUIPMENT WITH FAST ACTING OR ELECTRONIC VALVES SHALL BE PROVIDED WATER HAMMER ARRESTORS.
- AA. ALL EQUIPMENT, MIXING VALVES AND MOP BASINS SHALL BE PROVIDED CHECK VALVES TO ENSURE THE DIRECTION OF WATER FLOW.
- BB. ALL BRANCH PIPES FROM DOMESTIC WATER MAINS SHALL BE PROVIDED QUARTER TURN FULL PORT BALL VALVES ON THE BRANCH PIPE JUST ADJACENT TO THE MAIN.

- PLAN NOTES**
- 1 1" DCW TO SERVE YARD HYDRANT. REFER TO SITE PLANS FOR CONTINUATION.
- 2 6" FP BUILDING SERVICE ENTRY. REFER TO SITE DRAWINGS FOR CONTINUATION.
- 3 3" DCW BUILDING SERVICE ENTRY. REFER TO SITE DRAWINGS FOR CONTINUATION.
- 4 1/2" NG BUILDING SERVICE ENTRY. REFER TO SITE FOR CONTINUATION.
- 5 1/2" NG SERVICE AND BUILDING MAIN SERVING GAS METER.
- 6 3/4" NG UP IN MECHANICAL YARD TO SERVE AHJ.
- 7 UNDERGROUND NATURAL GAS PIPING SHALL BE ROUTED IN POLYETHYLENE PLASTIC PIPE, ONCE PIPE TRANSITIONS TO THE VERTICAL, PROVIDE POLYETHYLENE NATURAL GAS SERVICE RISE TO MAKE TRANSITION TO SCHEDULE 40 METALIC PIPE FOR ABOVE GRADE.
- 8





## GENERAL NOTES

**REQUIRED TO COMPLETE THE SCOPE OF WORK)**

- A. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ALL CONFLICTS SHALL BE RESOLVED BY THE ARCHITECT. THE ARCHITECT'S INTENT SHALL BE TO ALLOW A CLARIFICATION TO BE ISSUED, ANY WORK COMPLETED WITHOUT THE CLARIFYING INFORMATION IS AT THE CONTRACTORS FINANCIAL RISK.
- B. THE CONTRACTOR SHALL PROVIDE AND FURNISH ALL MATERIALS AND ACCESSORIES TO CREATE A FULL OPERATIONAL, CODE COMPLIANT AND TESTED SYSTEM. ALL MATERIALS AND ACCESSORIES REQUIRED TO CREATE THE FULLY OPERATIONAL SYSTEM SHALL BE INCLUDED IN THE COST OF THIS PROJECT. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR MAY AT THEIR OPTION MODIFY OR OBTAIN A PERMIT TO CHANGE TO CREATE A SYSTEM THAT MEETS THE INTENT OF THIS SET OF CONSTRUCTION DOCUMENTS.
- C. THE CONTRACTOR SHALL INCLUDE ALL ITEMS THAT ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN ACCORDANCE WITH THE LOCAL CODES AND MANUFACTURERS INSTALLATION RECOMMENDATIONS AND OR REQUIREMENTS.
- D. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS SHALL BE PROVIDED AS PART OF THE SCOPE OF THIS PROJECT.
- E. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF A REGISTERED PROFESSIONAL ENGINEER.
- F. PROVIDE FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS. FIRE STOPPING MATERIALS AND METHODS SHALL BE PER LOCAL AND STATE CODES AND REQUIREMENTS.
- G. ALL PLUMBING SYSTEMS SHALL BE INSTALLED PER THE CURRENT PLUMBING CODE FOR THE LOCATION OF THE WORK BEING INSTALLED.
- I. ALL PLUMBING EQUIPMENT, PIPING, FITTINGS, AND PIPE ACCESSORIES SHALL BE NSF 61, ANNEK G COMPLIANT.
- J. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM SHALL COMPLY WITH A 25% FLEAM SMOKE RATING. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WATER AND WEATHER TIGHT BY THE APPROPRIATE TRADE COMPETENT IN COMPLETING THIS WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.
- K. ALL VENT THROUGH ROOF (VTR) LOCATIONS SHALL BE FIELD VERIFIED IN REGARDS TO ANY OUTDOOR INTAKE. LOCATION THROUGH OF VTR SHALL BE NO LESS THAN AS REQUIRED BY THE LOCAL OR STATE CODES.
- M. ALL EXHAUST SYSTEMS SHALL BE INSTALLED PER THE CURRENT MECHANICAL AND PLUMBING CODE. PIPING, CONDENS, DUCTWORK OR ANY OTHER NON-STRUCTURAL ITEM.
- N. DO NOT WELD OR DRILL INTO STRUCTURAL STEEL, JOIST, INSTEAD USE CLAMPS, TIE WIRE, THRU-ROOF FLASHINGS.
- O. DO NOT USE ANY PVC, PLASTIC, ETC. IN PLENUM OR DEMISING WALLS UNLESS FIRE WRAPPED. ALL WOOD BLOCKING AND VALERS, CONCEALED OR NOT SHALL BE FIRE RETARDANT TREATED.
- P. PIPES PENETRATE BUILDING ENVELOPE SHALL BE PROTECTED BY EITHER BRIDGING, JOIST CROSS BRACING, GENERAL CONTRACTORS ROOFING CONTRACT.
- Q. VENT THROUGH ROOF INSTALLATION. ALL ROOFING WORK SHALL BE COMPLETED BY THE GENERAL CONTRACTORS ROOFING CONTRACT. THE COST SHALL BE INCLUDED IN THE SCOPE OF THIS PROJECT.
- R. PIPING BELOW ROOF SHALL BE SERVICE WEIGHT CAST IRON OR SCHEDULE 40, NO-HUB PIPING. ALL CONNECTIONS ARE NOT PERMITTED BELOW GRADE.
- S. ALL PIPING SHALL BE PROPERLY SUSPENDED BY THE STRUCTURE PER THE LOCAL CODES.
- T. ALL PIPING INSULATED WITHIN A PLENUM RETURN SHALL BE WITH PLENUM RATED MATERIALS.
- U. FLOOR DRAINS SHALL BE PROVIDED WITH THE FLOORING TRAP GUARDS.
- V. FLOOR DRAIN TRAP GUARDS SHALL BE PROVIDED FREE FLOATING PREFABRICATED SUPPORT OR EQUIPMENT SUPPORTS WITH ROCKER ASSEMBLIES. WOOD SUPPORTS SHALL NOT BE PERMITTED.
- W. ALL GAS PIPING SHALL BE PROVIDED PIPE LABELS IDENTIFYING THE GAS PRESSURE.
- X. ALL GAS PIPING SHALL BE INSTALLED PER THE LOCAL CODES FOR GAS LABELING AND INSTALLATIONS REQUIREMENTS.
- Y. ALL SHUT DOWN OF UTILITY AND FIRE PIPING. VTR SYSTEMS SHALL BE AS NEIGHBORLY NO LESS THAN 10 FEET AND MUST BE PROVIDED WITH WORKER ACCESS UNDER WHICH APPROVAL IS PROVIDED BY THE OWNER.
- AA. ALL DOMESTIC WATER BRANCH PIPES SERVING FIXTURES OR EQUIPMENT WITH FAST ACTING OR SLOW ACTING VALVES SHALL BE PROVIDED WITH WORKER ACCESS UNDER WHICH APPROVAL IS PROVIDED BY THE OWNER.
- AB. ALL EQUIPMENT, MIXING VALVES AND BOV SERVING SHALL BE PROVIDED CHECK VALVES TO ENSURE THE DIRECTION OF WATER FLOW.
- BB. ALL BRANCHES PERFORMING DOMESTIC WATER MAINS SHALL BE PROVIDED QUARTER TURN FULL PORT BALL VALVES ON THE BRANCH PIPE JUST ADJACENT TO THE MAIN.


## PLAN NOTES

- ROUTE DRAIN LINE AND WATER LINE TO ADJACES DISHWASHER FROM SINK.  
1" DOWN DRAIN.
- PROVIDE FULLY SPRINKLED BUILDING PER NFPA REQUIREMENTS. F.P. CONTRACTOR PROVIDE A FULL OPERATIONAL AND CODE COMPLIANT SYSTEM WITH ALL REQUIRED ACCESSORIES AND COMPONENTS.
- ROUTE RO WATER LINE TO SERVE RO FAUCET AT SINK AND COFFEE MAKER. ROUTE RO WATER LINE TO RO SERVING THE REFRIGERATOR.
- PROVIDE SHUTOFF VALVE AND CHECK VALVES ON DOMESTIC WATER PIPING SERVING MOP BASIN. REFER TO ENLARGED PLAN OWN SHEET 600 FOR ADDITIONAL PIPE SIZING AND REQUIREMENTS.
- ROUTE NATURAL GAS PIPING ABOVE GROUND AND PROVIDE SUPPORT ON STAINLESS STEEL UNIFORMS.
- 3/4" NO ROUTED LOW THROUGH EXTERIOR BUILDING WALL. COORDINATE HEIGHT OF WALL PENETRATION WITH WALL ASSEMBLY. SEAL PIPE PENETRATION WATER AND WEATHER TIGHT.
- FP CONTRACTOR SHALL ROUTE SPRINKLER PIPE MAINS IN THE UNION HALL IN THE EAST-WEST DIRECTION. ROUTE SPRINKLER MAINS TIGHT TO STRUCTURE. SPRINKLER BRANCH PIPING SHALL ROUTE IN THE NORTH-SOUTH DIRECTION WITH THE SLOPED ROOF.

LIUNA Local 120

**CORPORATE CAMPUS**

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN



## Hydrant Flow Test Results

Address of Test

Location of Test

2440 Lafayette Rd.

1st hydrant N. of Monica Dr. on Lafayette Rd.

Test Conducted By

Request ID(s)

Mike York

2837-C

Test Date / Time

Distribution Map

10/6/21 at 11:15

772

Flow Hydrant Number

Flow Hydrant Main Size (in)

Nozzles

Nozzle Size (in)

Flow Rate (GPM)

O-8983

12

1

2.5

1,554

Pressure Hydrant Number

Pressure Hydrant Main Size (in)

Static Pressure (psi)

Residual Pressure (psi)

Estimated Flow at 20 psi (GPM)

O-8982

16

136

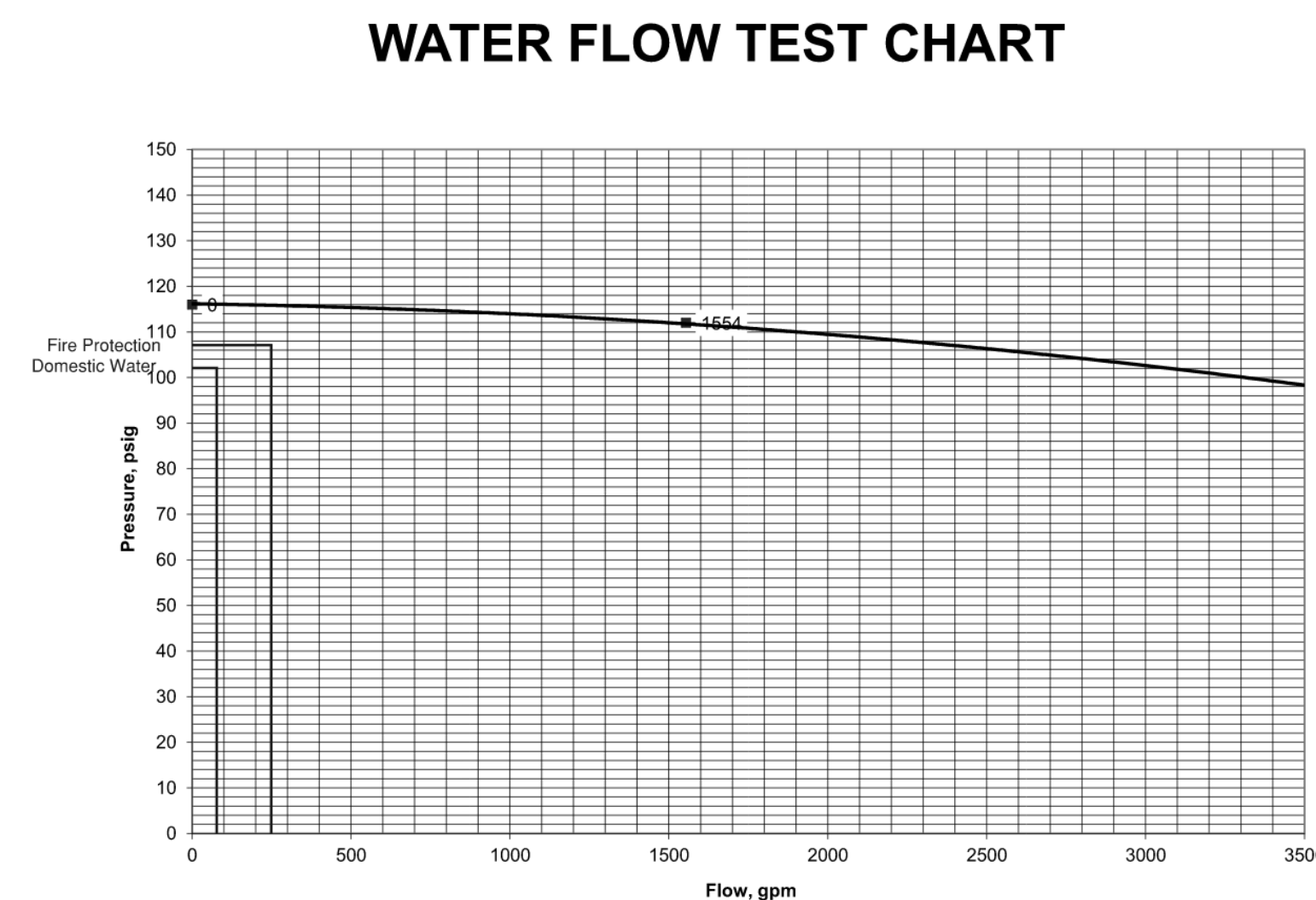
112

8,645

Notes

**DISCLAIMER**

Any flow test data collected and/or provided by Citizens Water shall be for informational purposes only. Designs shall not be completed assuming the collected flow data is average flow or peak flow conditions. A request must be submitted to Citizens Water for hydraulic analysis to determine project requirements. The developer/engineer shall schedule a meeting with Citizens Water as soon as possible to coordinate project needs.



PERMIT SET

△ REVISIONS:

DATE:  
**2.11.2022**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

DRAWN BY:  
**KBO**

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DRAWING TITLE:  
**FIRST FLOOR  
PLUMBING PLAN**

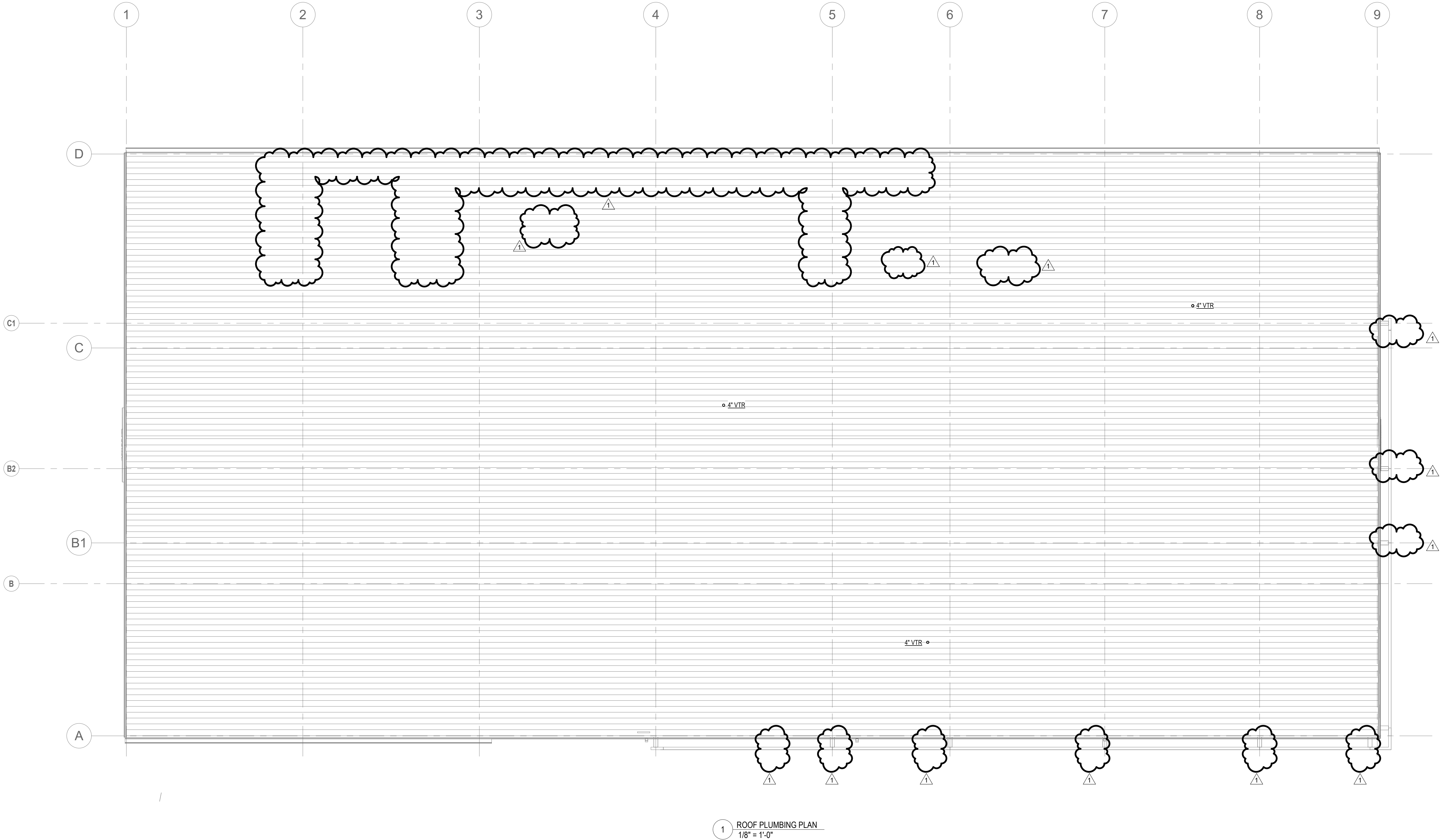
DRAWING NUMBER:

P201



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- T. ALL PIPING INSULATED WITHIN A PLENUM RETURN SHALL BE WITH PLENUM RATED MATERIALS.
- U. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS OR TRAP GUARDS.
- V. GAS PIPING SUPPORTED ON THE ROOF SHALL BE PROVIDED FREE FLOATING PREFABRICATED SUPPORTS OR EQUIPMENT SUPPORTS WITH ROLLER ASSEMBLIES. WOOD SUPPORTS WILL NOT BE PERMITTED.
- W. ALL GAS PIPING SHALL BE PROVIDED PIPE LABELS IDENTIFYING THE GAS PRESSURE.
- X. ALL GAS PIPING SHALL BE INSTALLED PER THE LOCAL CODES FOR MATERIALS AND INSTALLATIONS REQUIREMENTS.
- Y. ALL SHUT DOWN OF UTILITIES AND FIRE PROTECTION SYSTEMS SHALL BE ARRANGED WITH NO LESS THAN SEVEN (7) DAYS NOTICE TO THE OWNER. WORK MAY NOT COMMENCE UNLESS WRITTEN APPROVAL IS PROVIDED BY THE OWNER.
- Z. ALL DOMESTIC WATER BRANCH PIPES SERVING FIXTURES OR EQUIPMENT WITH FAST ACTING OR ELECTRONIC VALVES SHALL BE PROVIDED WATER HAMMER ARRESTORS.
- AA. ALL EQUIPMENT, MIXING VALVES AND MOP BASINS SHALL BE PROVIDED CHECK VALVES TO ENSURE THE DIRECTION OF WATER FLOW.
- BB. ALL BRANCH PIPES FROM DOMESTIC WATER MAINS SHALL BE PROVIDED QUARTER TURN FULL PORT BALL VALVES ON THE BRANCH PIPE JUST ADJACENT TO THE MAIN.

**PLAN NOTES**

**PERMIT SET**

△ REVISIONS:  
1 02.11.2022 ADDENDUM 3

DATE:  
**2.11.2022**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

DRAWN BY:  
**KBO**  
DRAWING TITLE:

**ROOF PLUMBING  
PLAN**

DRAWING NUMBER:

**P202**





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LIUNA Local 120

**CORPORATE CAMPUS**

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN

PERMIT SET

△ REVISIONS:

DATE: **11.2022**  
 DESIGN PROJECT NUMBER: **1102**  
 CLIENT PROJECT NUMBER:

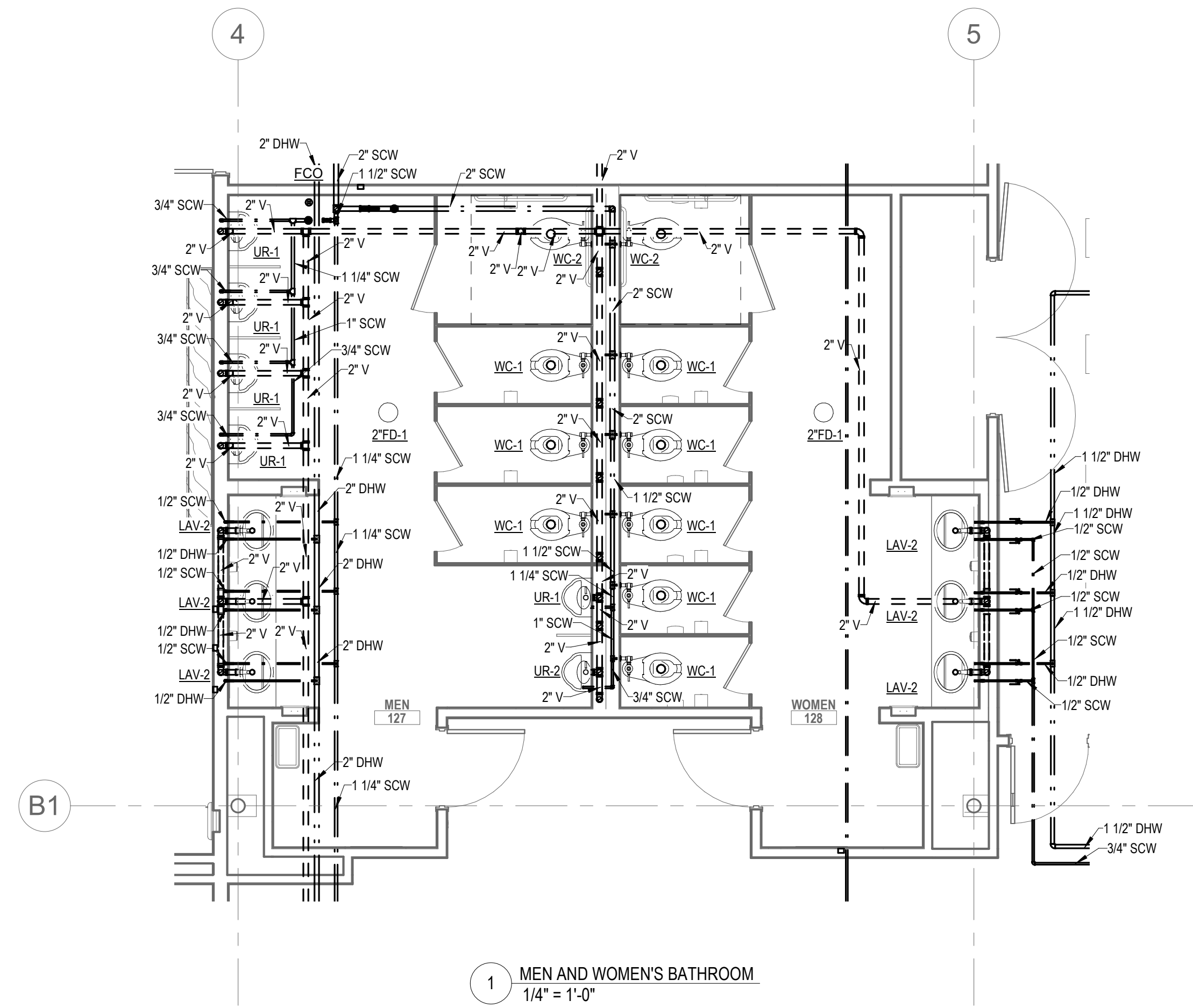
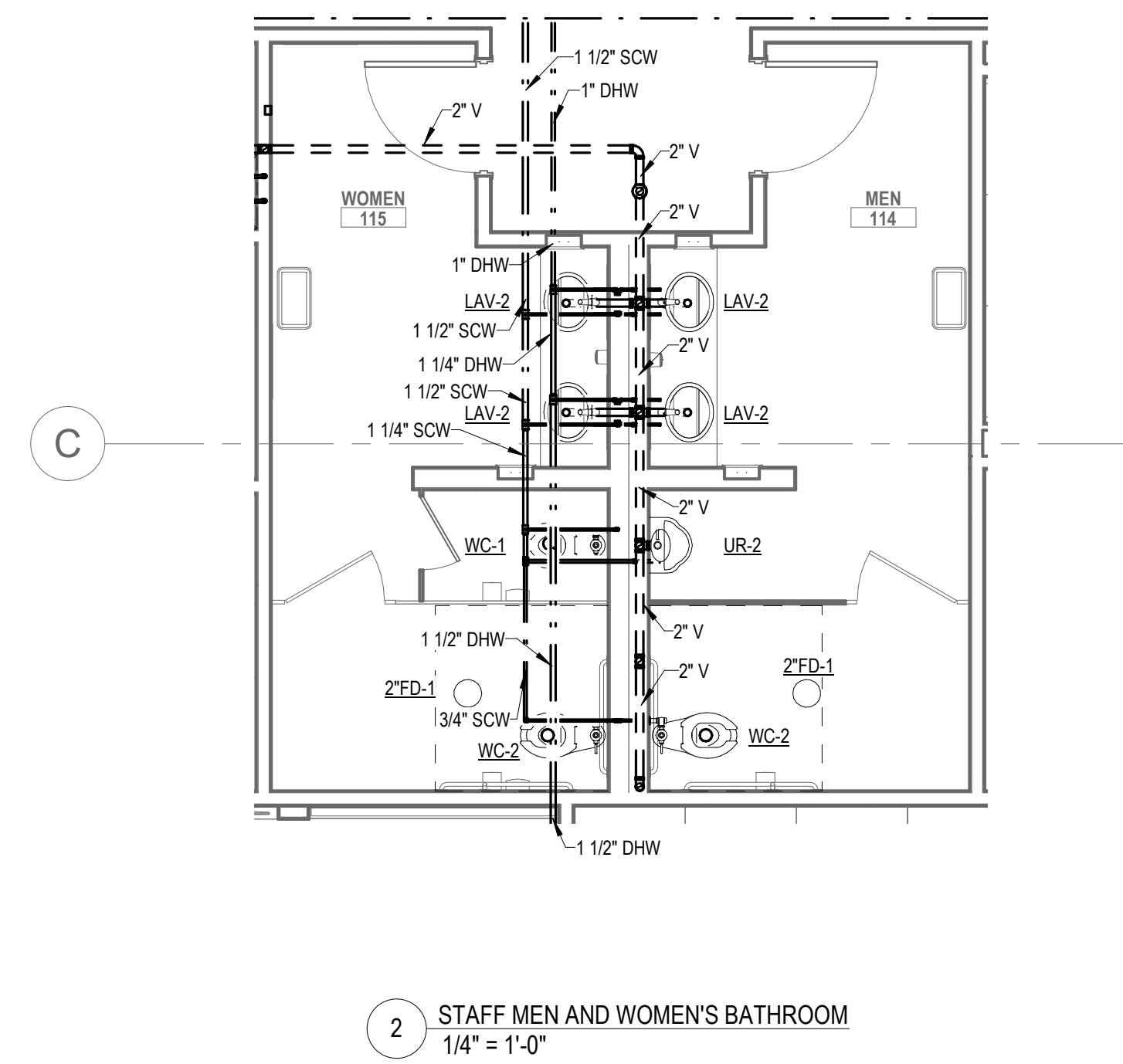
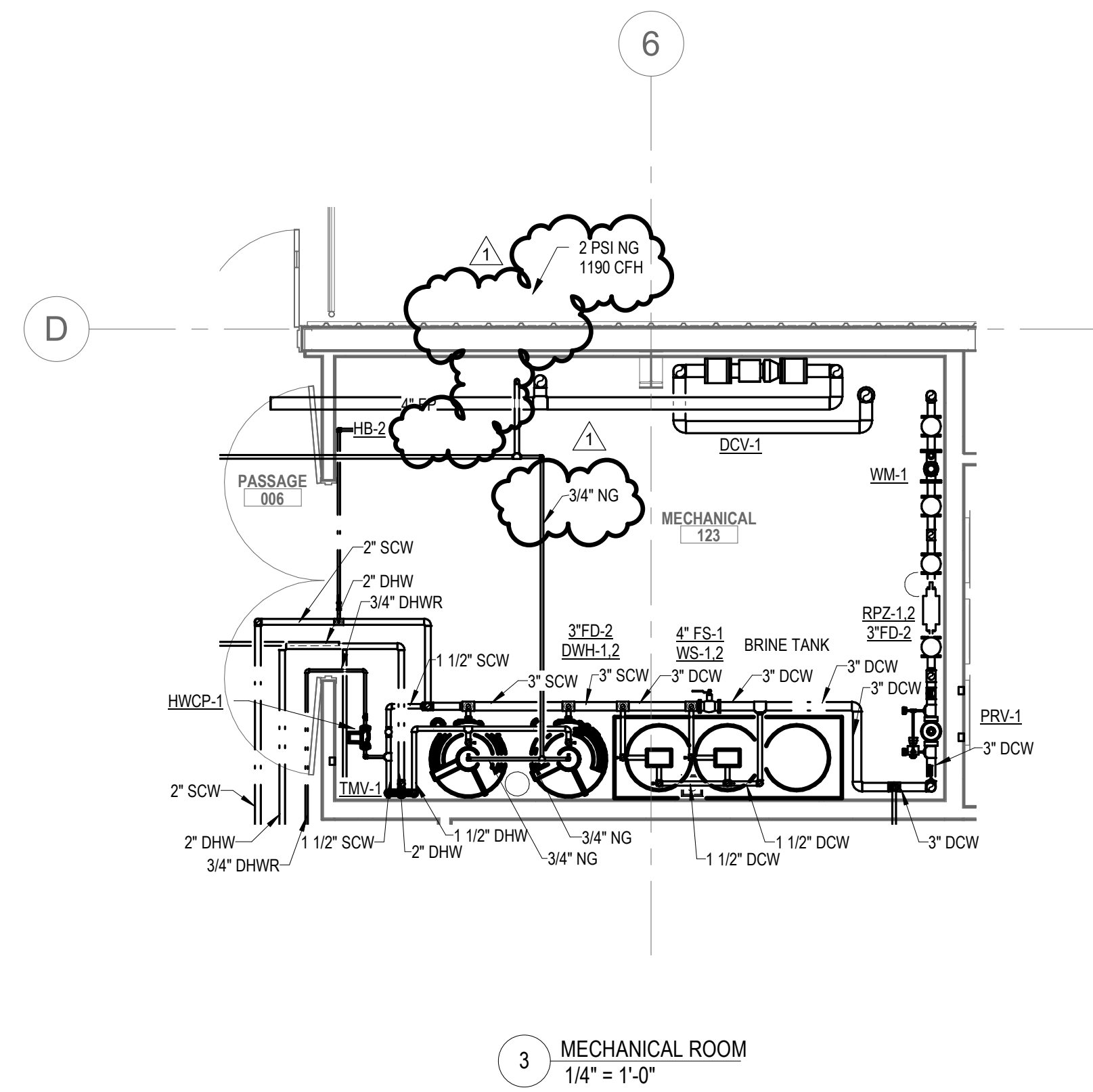
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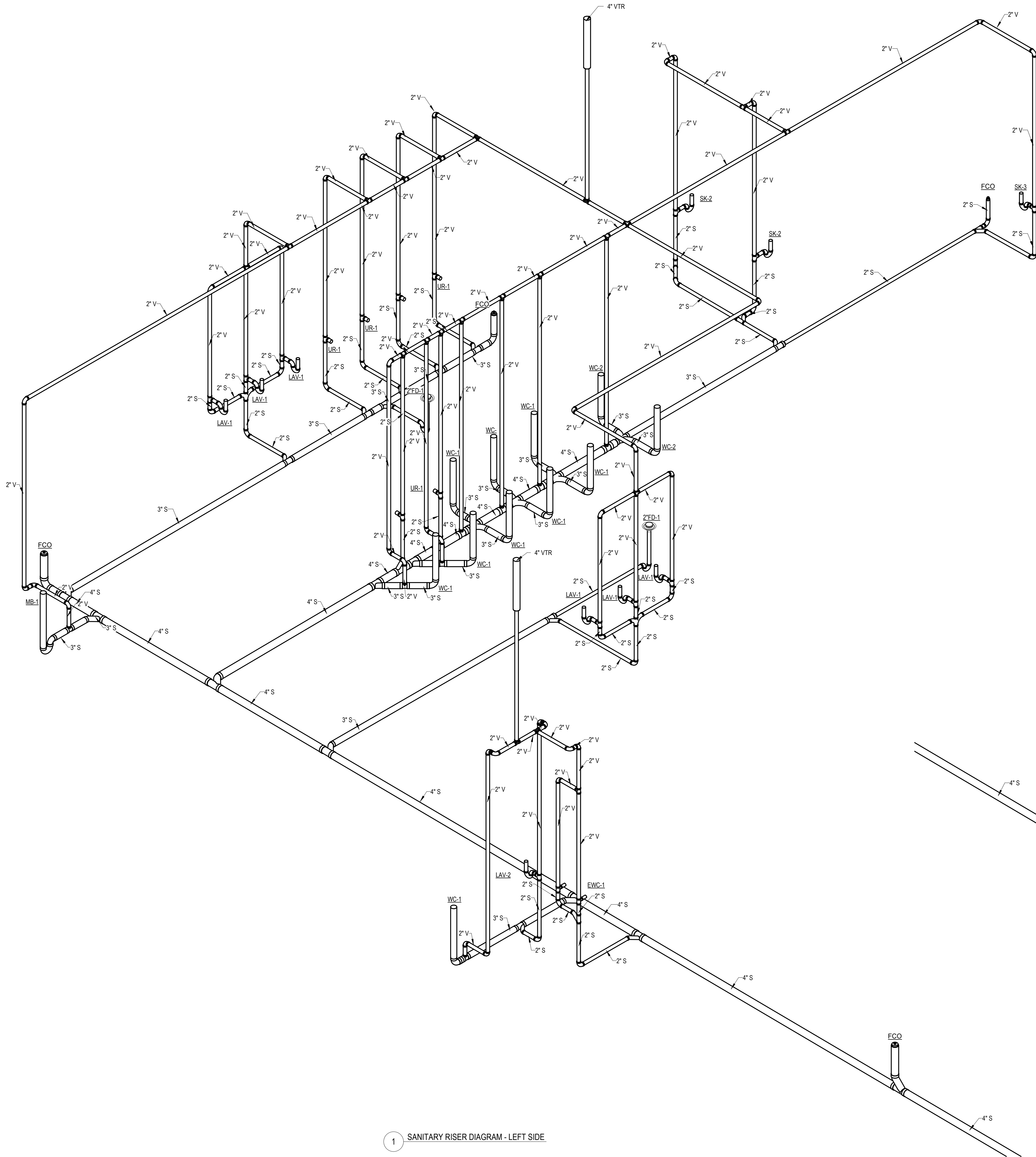
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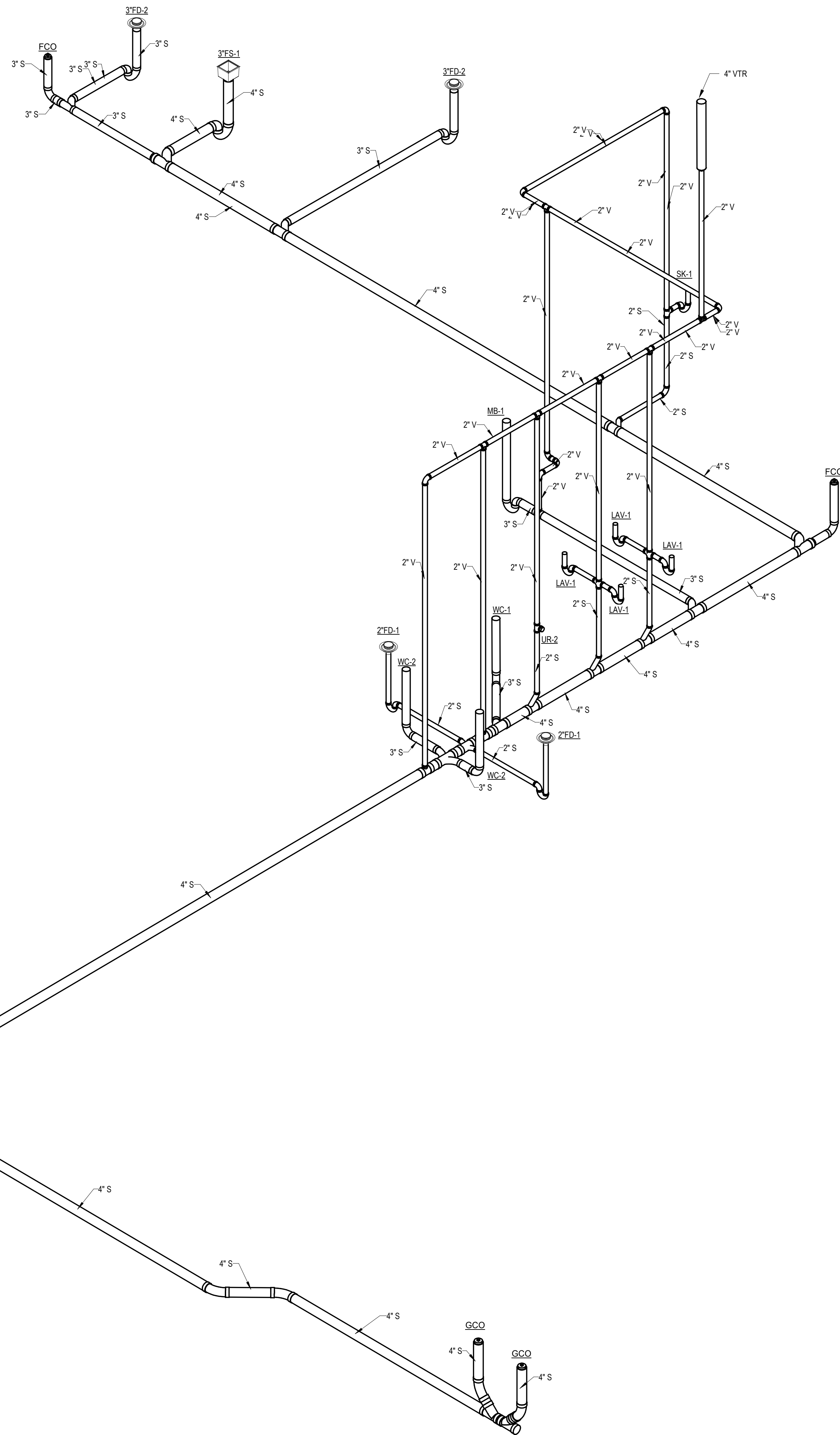
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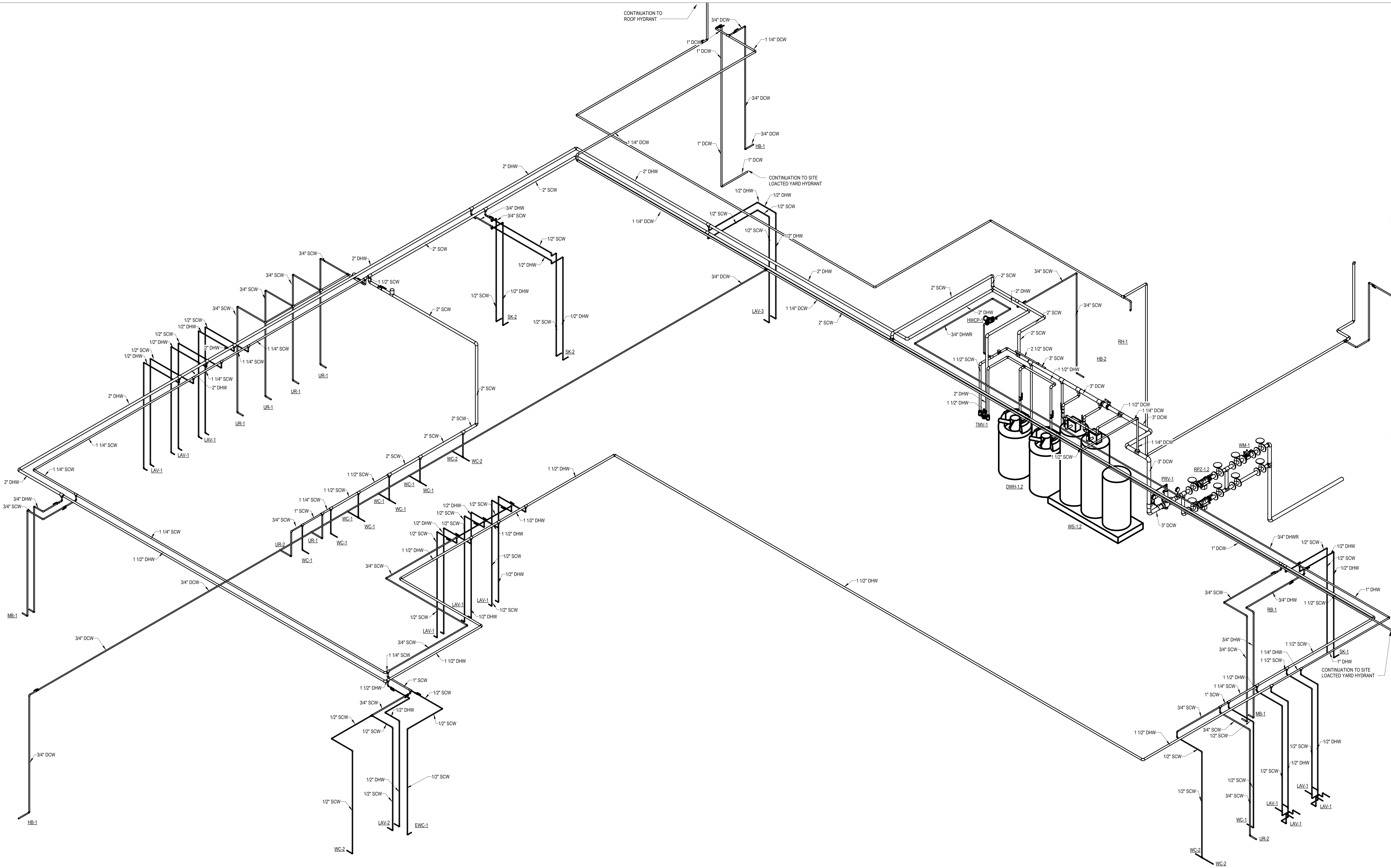
1 SANITARY RISER DIAGRAM - LEFT SIDE



2 SANITARY RISER DIAGRAM - RIGHT SIDE



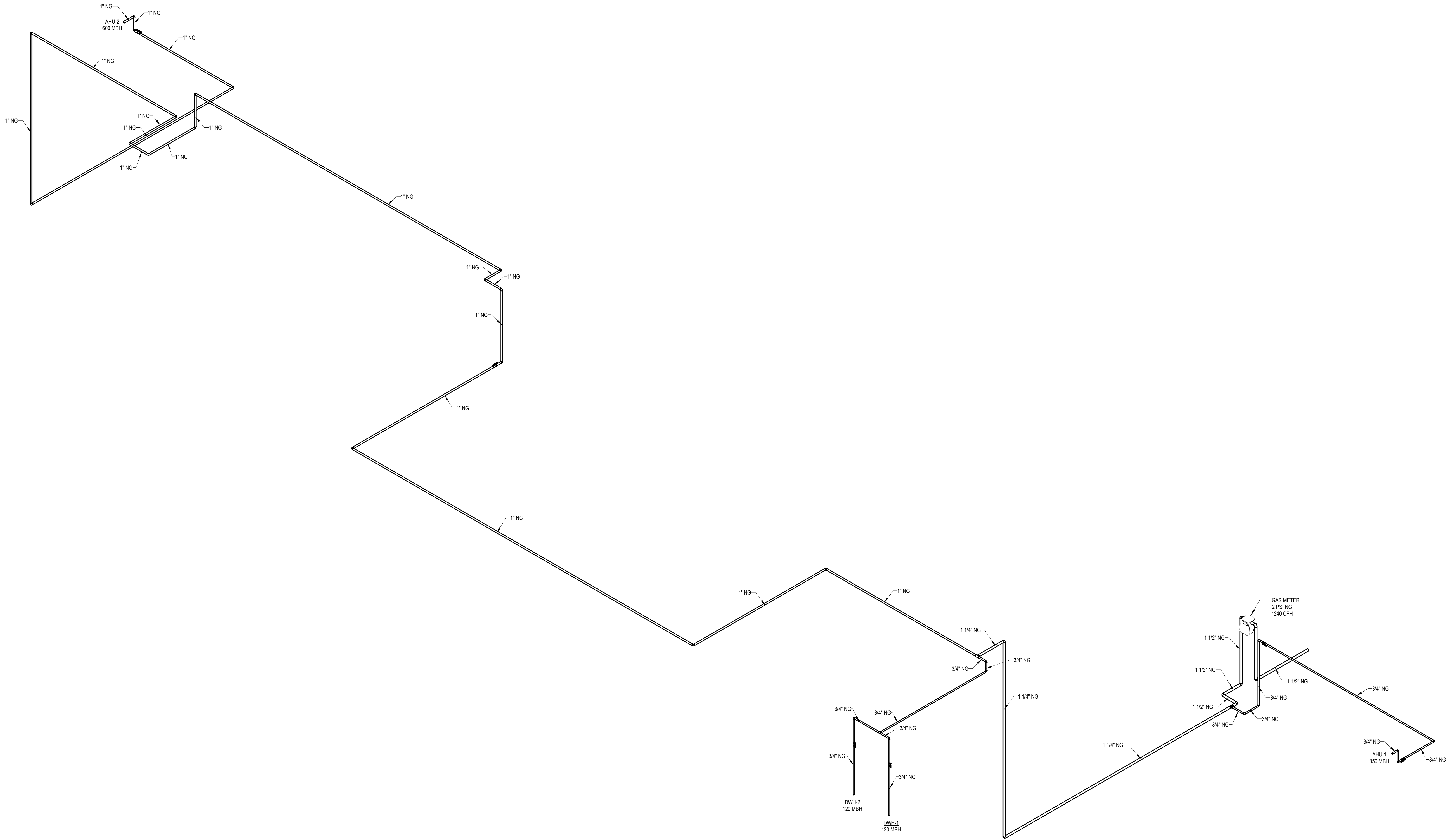
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1 DOMESTIC WATER RISER DIAGRAM



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LiUNA Local 120  
**CORPORATE CAMPUS**  
5430 LAFAYETTE RD.  
INDIANAPOLIS, IN

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REVISIONS:		
1	02.11.2022	ADDENDUM 3

DATE:  
**2.11.2022**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

DRAWN BY:  
**KBO**  
DRAWING TITLE:

**NATURAL GAS  
RISER DIAGRAM**

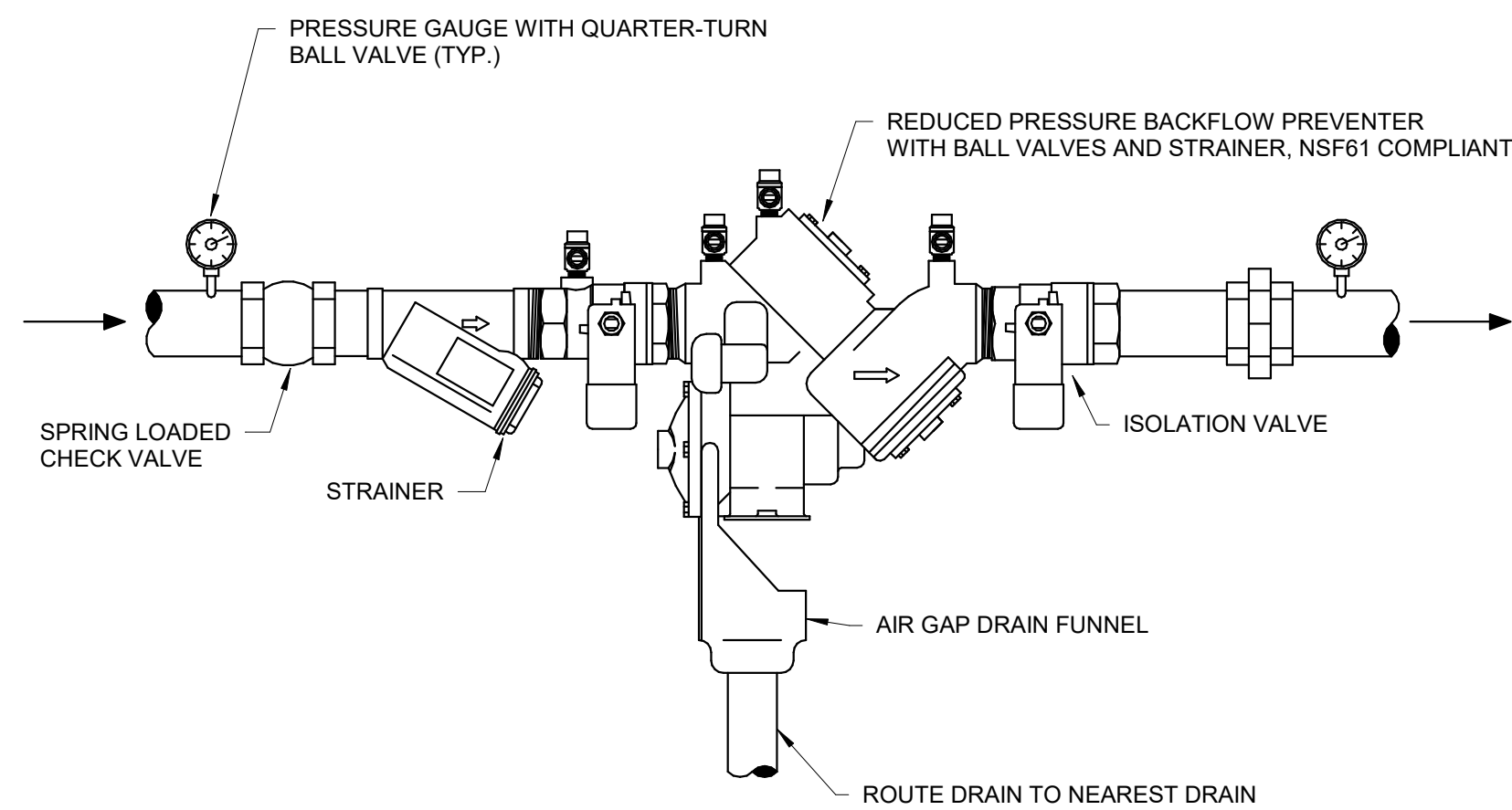
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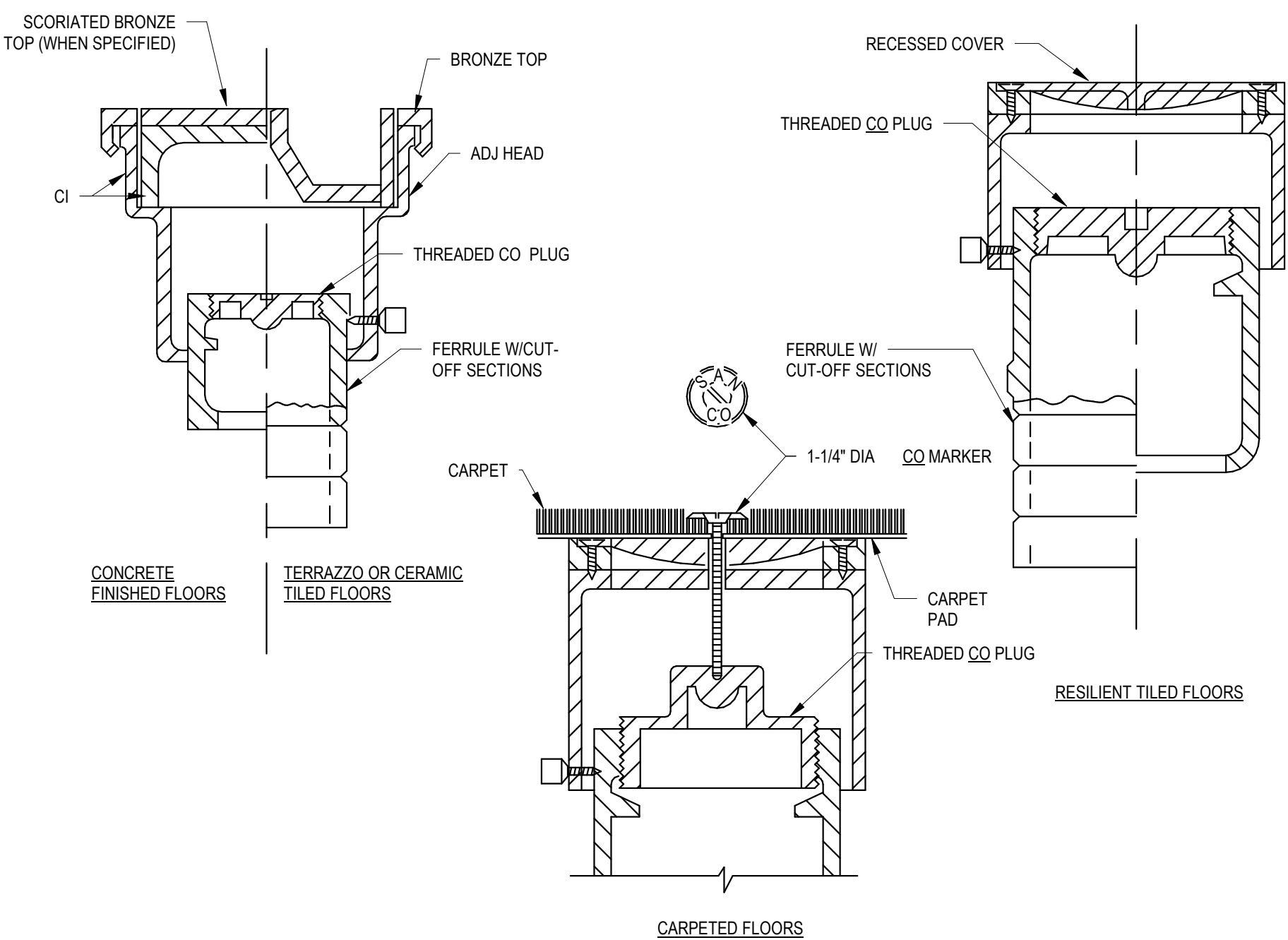




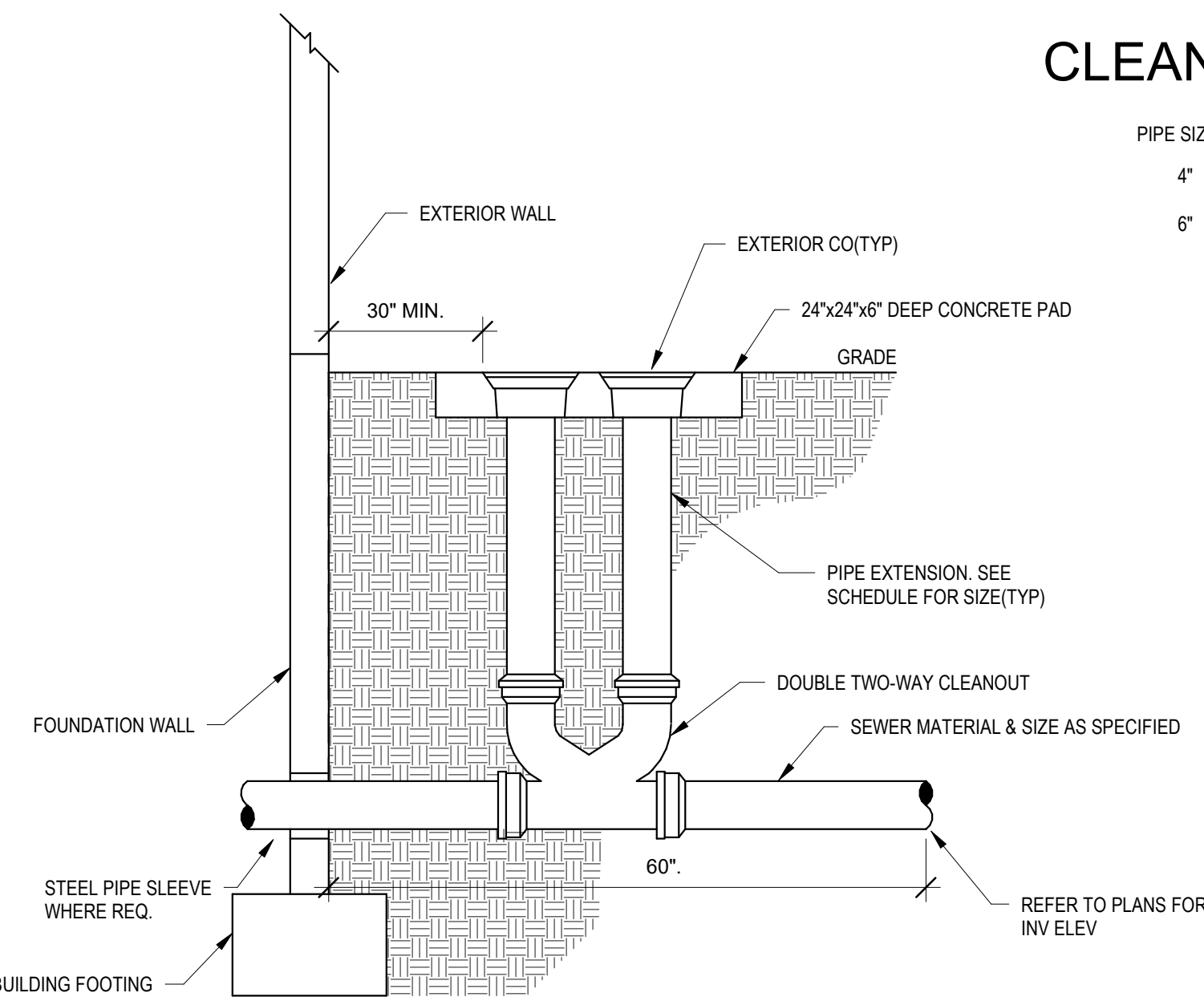
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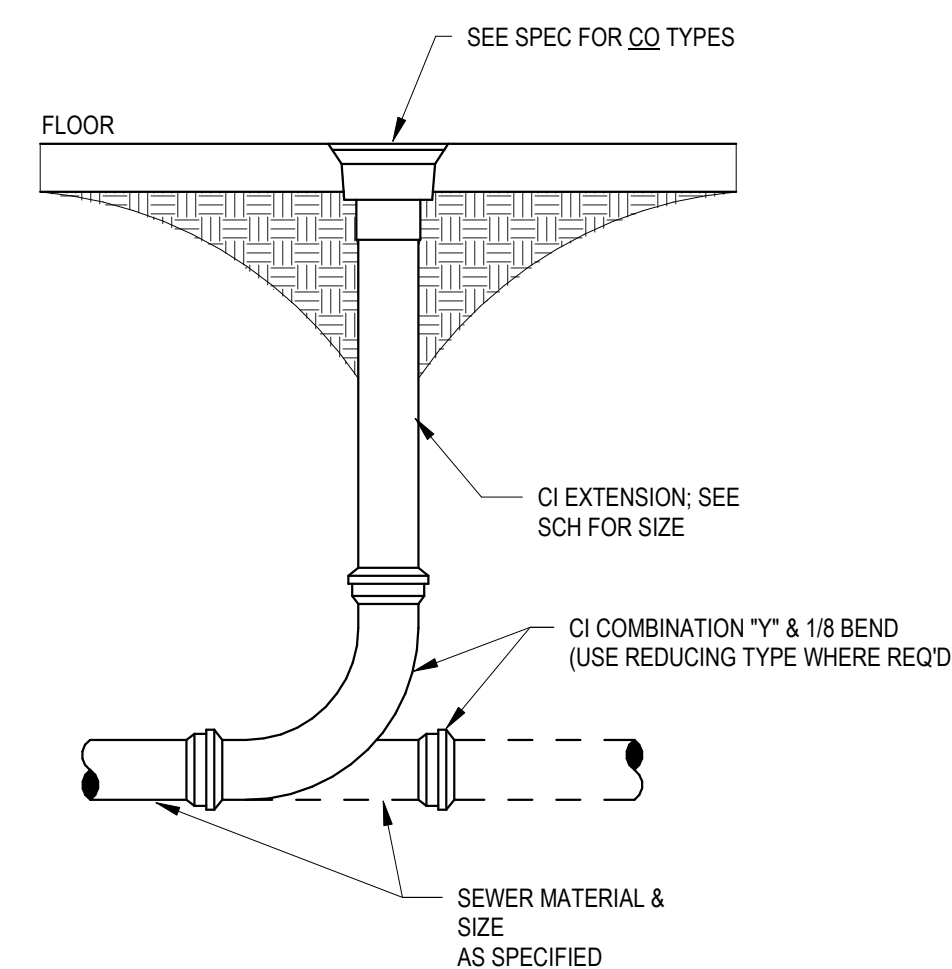
6 BACKFLOW PREVENTION DETAIL 2" AND SMALLER  
NO SCALE



7 FLOOR CLEANOUT DETAIL  
NO SCALE



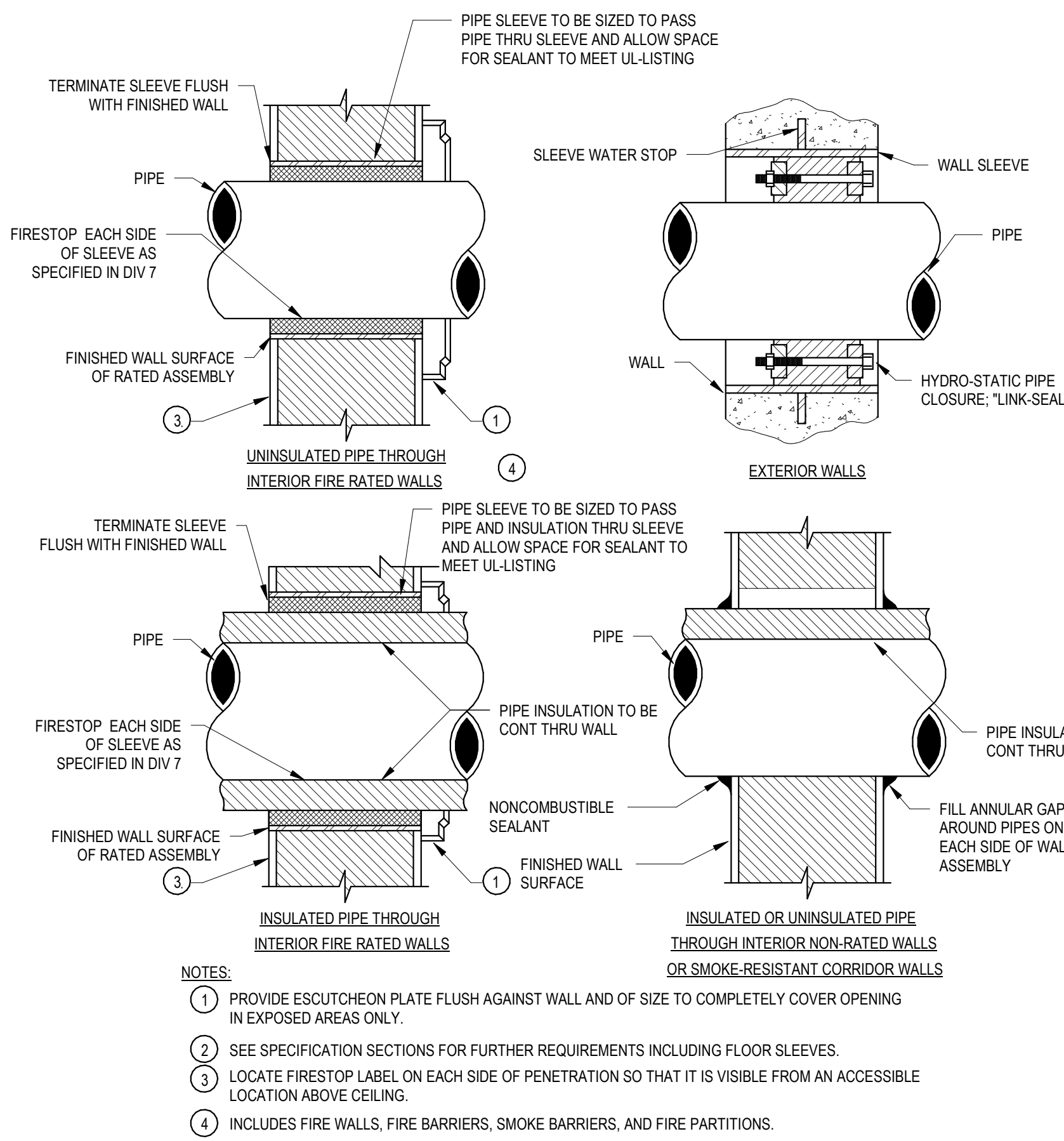
8 EXTERIOR TWO-WAY SANITARY CLEANOUT DETAIL  
NO SCALE



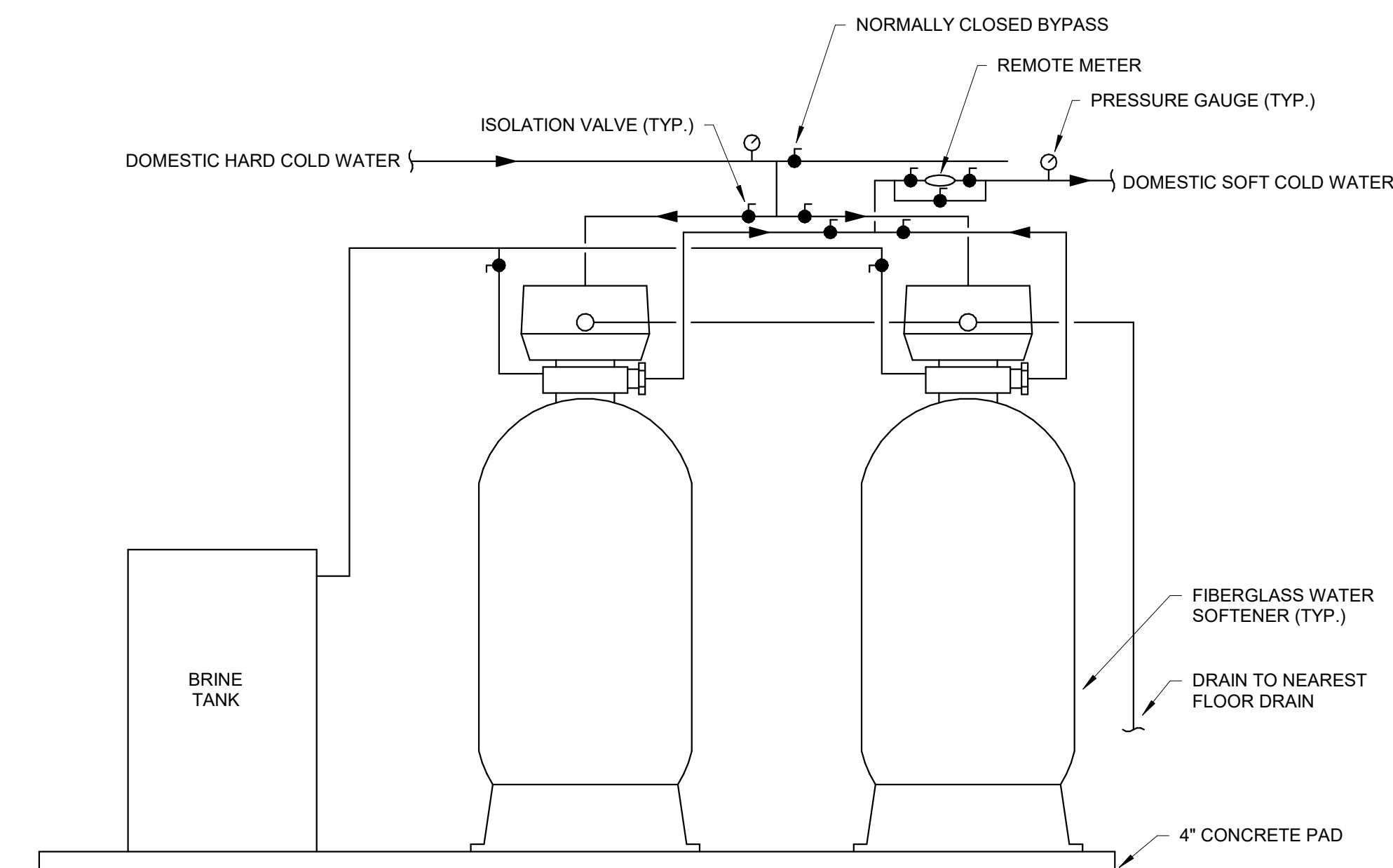
9 FLOOR CLEANOUT DETAIL  
NO SCALE

## CLEANOUT SIZES

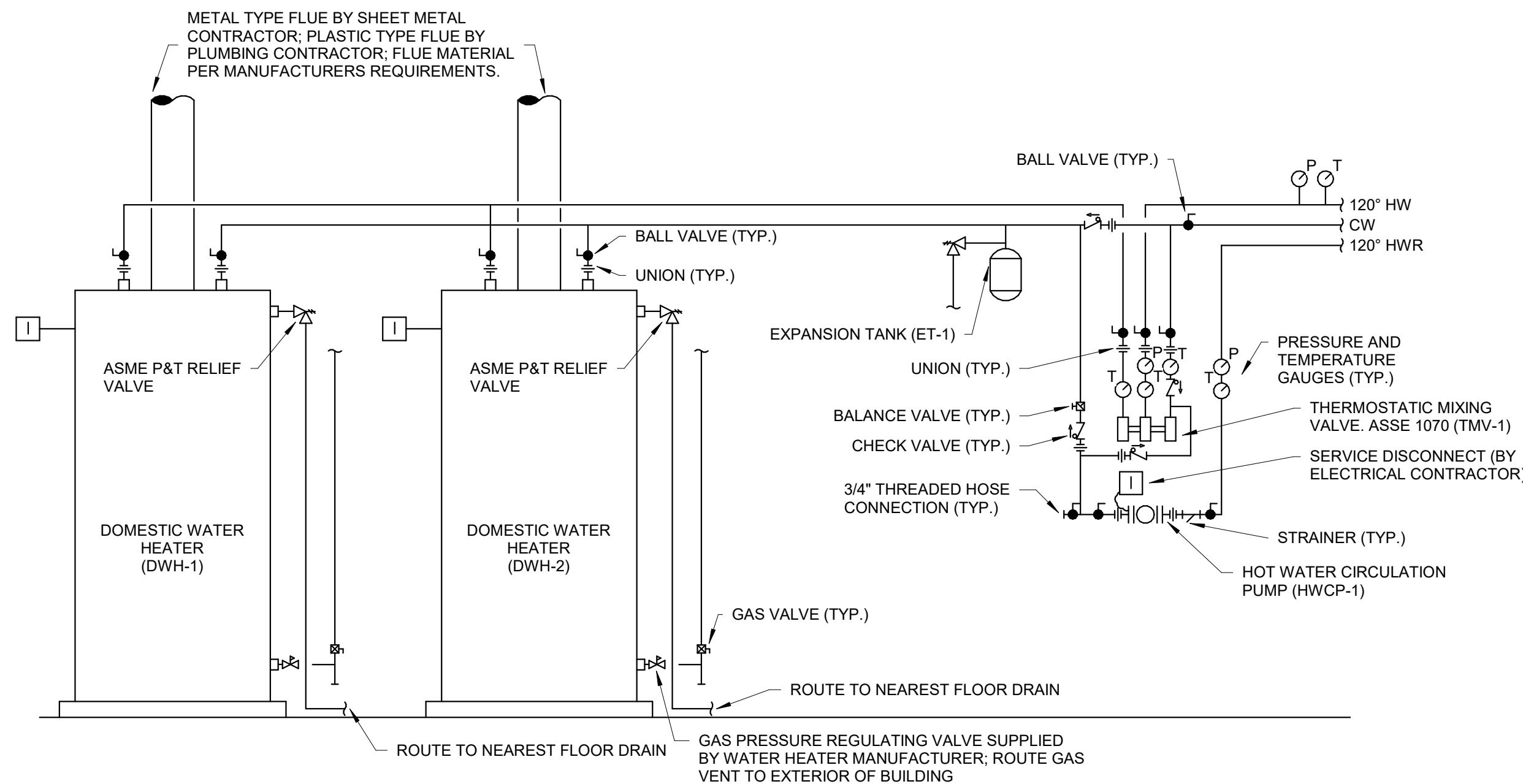
PIPE SIZE	CLEANOUT SIZE
2"	2"
3"	3"
4" & LARGER	4"



3 PIPE PENETRATION DETAILS  
NO SCALE



4 WATER SOFTENER PIPING DIAGRAM  
NO SCALE



5 DOMESTIC WATER HEATER DETAIL-3  
NO SCALE

## PLUMBING EQUIPMENT SCHEDULE

FIXTURE	REFERENCE MANUFACTURE	REFERENCE MODEL	VOLTAGE	PHASE	HP/WATT	EFFICIENCY	GALLONS STORAGE	BTU INPUT	CAPACITY	NOTES
WM-1	-	-	-	-	-	-	-	-	-	COORDINATE WITH UTILITY ALL REQUIREMENTS AND INSTALL PER UTILITY REQUIREMENTS.
DWH-1,2	A.O. SMITH	BTH-120	-	-	-	-	60	120000	154 GPM @ 90°F ΔT	ROUTE DRAIN TO FLOOR DRAIN.
HWCP-1	B&G	PL-30	120	1	1/12 HP	-	-	-	5 GPM @ 21°F ΔT	NSF-61, ANNEX G COMPLIANT
ET-1	XYLEM	PTA-5	-	-	-	-	-	-	9 GALLON ACCEPTANCE	-
WS-1,2	MARLO	MGT-240 2"	120	-	-	-	-	-	74GPM @ 15 PSIPD 97GPM @ 25 PSIPD	INSTALL PER MANUFACTURES REQUIREMENTS.
RO-1	HAUGE	H6500 PAB800KIT 200109	24	-	-	-	-	-	-	-
PRV-1	ZURN WILKINS	ZW209BP	-	-	-	-	-	-	SET PRV @ 75 PSI MAX	PROVIDE PRV WITH LOW FLOW BY-PASS
TMV-1	LAWLER	804	-	-	-	-	-	-	85 GPM @ 15 PSI PD	-

## BACKFLOW PREVENTER SCHEDULE

EQUIPMENT DESIGNATION	MANUFACTURER	MODEL	RATED CAPACITY			LOCATION	SERVICE	TYPE	NOTES
			FLOW	PRESSURE DROP	SIZE				
DCV-1	Zurn Wilkins	350 OSY	350 GPM	5.00 psi	4"	MECHANICAL ROOM	FIRE PROTECTION	DOUBLE CHECK	ROUTE TO NEAREST FLOOR DRAIN
RPZ-1,2	Zurn Wilkins	375XL2	85 GPM	15.00 psi	1 1/2"	MECHANICAL ROOM	DOMESTIC WATER	REDUCED PRESSURE	ROUTE TO NEAREST FLOOR DRAIN

## PLUMBING FIXTURE ROUGH-IN SCHEDULE

TAG	FIXTURE DESCRIPTION	HW	CW	TRAP	W	V	MOUNTING HEIGHT	MANUFACTURER
WC-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE	-	1"	INTERGAL	3"	2"	16" TO SEAT	ZURN Z5655-BWL1; ZURN Z6000AV
WC-2	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, ADA	-	1"	INTERGAL	3"	2"	17" TO SEAT	ZURN Z5665-BWL1; ZURN Z6000AV
LAV-1	LAVATORY, WALL MOUNT, ADA	1/2"	1/2"	1 1/4"	2"	2"	REFER TO ARCHITECTURAL DRAWINGS	ZURN Z5340; SYMMONS S-9610-0.5
LAV-2	LAVATORY, UNDERMOUNT	1/2"	1/2"	1 1/4"	2"	2"	REFER TO ARCHITECTURAL DRAWINGS	SYMMONS S-9610-0.5
LAV-3	LAVATORY, WALL MOUNT, ADA	1/2"	1/2"	1 1/4"	2"	2"	REFER TO ARCHITECTURAL DRAWINGS	ZURN Z5348 ZURN Z83184-XL-18F
UR-1	URINAL, WALL-HUNG, FLUSH VALVE	-	3/4"	INTERGAL	2"	2"	24" TO RIM	ZURN Z5765-U; ZURN Z6003
UR-2	URINAL, WALL-HUNG, FLUSH VALVE, ADA	-	3/4"	INTERGAL	2"	2"	17" TO RIM	ZURN Z5765-U; ZURN Z6003
SK-1	SINK, SINGLE COMPARTMENT, UNDERMOUNT	1/2"	1/2"	1-1/2"	2"	2"	MOUNT SINK UNDER COUNTER TOP	JUST MANUFACTURING USN-1830-A; SYMMONS S-2302-PD
SK-2	SINK, SINGLE COMPARTMENT, DROP-IN	1/2"	1/2"	1-1/2"	2"	2"	MOUNT IN CASEWORK	KOHLER K-5415; T&S BRASS B-0133-CR-88TP
EW-C1	ELECTRIC WATER COOLER, BOTTLE FILLER, B-I-LEVEL, FILTERED, ADA	-	1/2"	INTERGAL	2"	2"	REFER TO ARCHITECTURAL DRAWINGS	ELKAY LMBFTLRWSLK
MB-1	MOP SINK	3/4"	3/4"	3"	3"	2"	MOUNT FAUCET 36" ABOVE FINISHED FLOOR	FIAT MSG2424 WITH MSG2424
RB-1	REFRIGERATOR BOX	-	1/2"	-	-	-	36"	OATEY
HB-1	HOSE BIB	-	3/4"	-	-	-	18"	WOODFORD 65
HB-2	HOSE BIB	-	3/4"	-	-	-	24"	WOODFORD 65

## PIPE INSULATION SCHEDULE

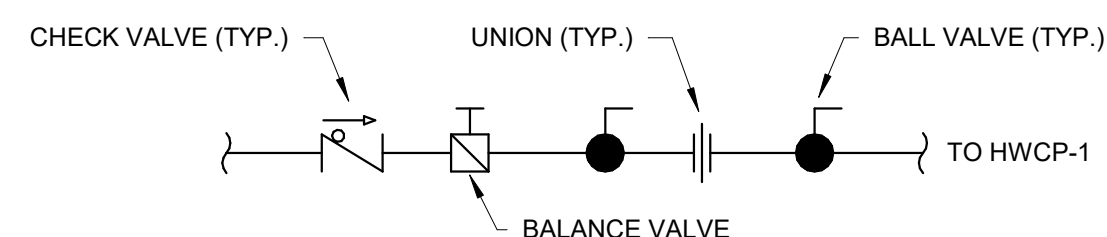
PIPING SYSTEM	THICKNESS, TYPE	NOTES
MOISTURE CONDENSATE DRAINS - ABOVE GRADE	3/4" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,3
INTERIOR HORIZONTAL WASTE LINES FROM AIR CONDITIONING EQUIPMENT	3/4" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,3
DOMESTIC HOT WATER LINE 1-1/4" AND LESS	1" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,2,3
DOMESTIC HOT WATER LINES 1-1/2" AND LARGER	1-1/2" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,3
DOMESTIC COLD WATER LINES 1" AND LESS	3/4" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,2,3
DOMESTIC COLD WATER LINES 1-1/4" TO 4"	3/4" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,2,3
BURIED PIPING	1" ELASTOMERIC	1
STORM WATER DRAINS ABOVE GRADE, HORIZONTAL	1" PRE-FORMED FIBERGLASS OR ELASTOMERIC	1,2,3
NOTES:		
1. MINIMUM 1" WITH CONDUCTIVITY LESS THAN 0.28 BTU * INCH / (HR * FT * F)		
2. FIELD APPLIED JACKET - FOIL AND PAPER - APPLY WITH 2" OVERLAP		
3. ALL INSULATION WITHIN A RETURN AIR PLENUM SHALL BE 25/50 RATED		

## FLOOR AND ROOF DRAIN SCHEDULE

FIXTURE	REFERENCE MANUFACTURE	REFERENCE MODEL	DIAMETER	NOTES
FD-1	J.R. SMITH	2005-A06PB	5"	2" OUTLET
FD-2	J.R. SMITH	2005-F37PB	7"	3" OUTLET
FD-3	J.R. SMITH	2005-F37PB	7"	3" OUTLET

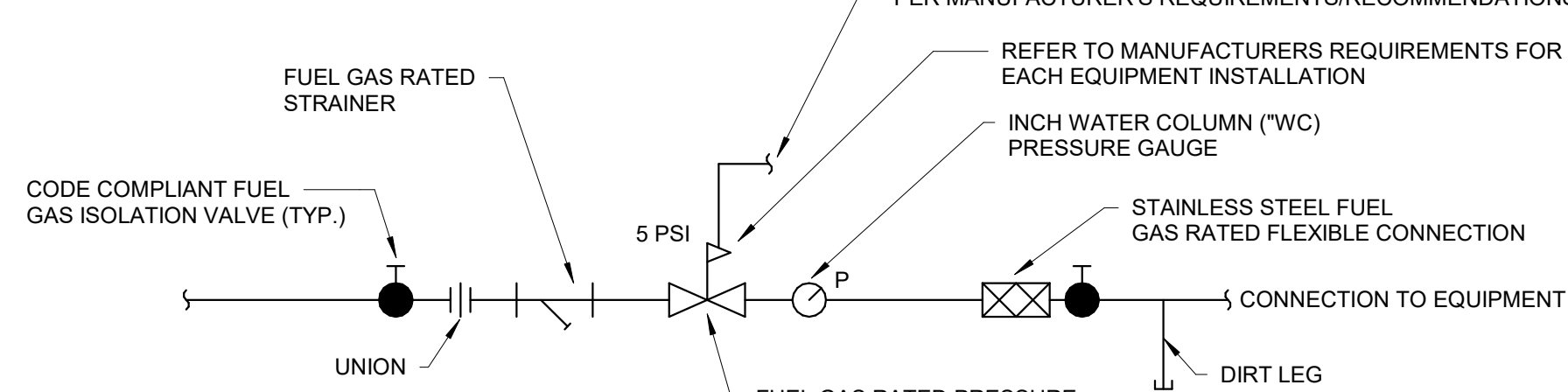
## WATER HAMMER ARRESTOR SCHEDULE

TYPE	F.U. RATING	REMARKS
B	12 - 32	-
C	33 - 60	-



SET DOMESTIC BALANCE STATION TO ACHIEVE 110°F HOT WATER RETURN TEMPERATURE WHEN THE CIRCULATION PUMP IS OPERATING. PUMP POWER ON AT 105°F. PUMP POWER OFF AT 115°F. CONTROLLED BY AQUASTAT

1 DOMESTIC HOT WATER BALANCE STATION  
NO SCALE



2 GAS FIRED EQUIPMENT PIPING CONNECTION DETAIL  
NO SCALE



## GENERAL NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- PROVIDE SUPPORT WIRES FOR ALL LIGHT FIXTURES.
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL, REFLECTED CEILING PLAN, HVAC EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL.
- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF THE WORK.
- ALL WORK SHALL CONFORM TO OR EXCEED THE MINIMUM REQUIREMENTS OF THE CURRENT ANSI / NFPA 70 WITH STATE AMENDMENTS, ENERGY CODE, ANSI / IEEE C2 AND ALL FEDERAL, STATE, LOCAL AND MUNICIPAL CODES AND ORDINANCES. THE ELECTRICAL SUBCONTRACTOR SHALL COMPLY WITH THE DIRECTIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- INSTALL WORK USING PROCEDURES DEFINES IN NECA STANDARDS OF INSTALLATION. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING WORK BY THE GENERAL CONTRACTOR. COORDINATE ALL ELECTRICAL WORK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FLOOR, WALL, AND CEILING PENETRATIONS TO COMPLETE HIS WORK. PROVIDE PROPER FIRESTOPPING/ FIRE SAFING FOR ALL PENETRATIONS MADE. PROVIDE APPROPRIATE SEALANT (I.E. FIRESEALING) TO MAINTAIN CONSTRUCTION INTEGRITY FOR ANY PENETRATIONS THROUGH FLOORS, STRUCTURAL CEILING, AND FIRE WALLS. REFER TO THE ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
- COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES TO ENSURE EFFECTIVE AND EFFICIENT OVERALL INSTALLATION.
- THE LOCATION OF RECEPTACLES, PHONE / DATA JACKS, AND ROOM EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED WITH THE ARCHITECT DURING THE CONSTRUCTION PHASE.
- ALL EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.
- PHYSICAL SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. COORDINATE ELECTRICAL WORK FOR THIS EQUIPMENT WITH THE OTHER TRADES.
- ALL BRANCH CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT COMBINE NEUTRAL CONDUCTORS.
- ALL FEEDER NEUTRAL / GROUNDED CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. DERATE MULTIPLE CONDUCTORS IN A RACEWAY ACCORDINGLY WITH NEC TABLES.
- INSTALL ALL CONDUITS, RACEWAYS, AND CABLE TRAY FOR MAXIMUM HEAD CLEARANCE IN MECHANICAL AREAS.
- WIRING SHALL BE INSTALLED ABOVE ACCESSIBLE CEILINGS AND WITHIN WALL CAVITIES WHERE POSSIBLE.
- WIRING THAT IS TO BE INSTALLED IN AREAS WHERE THERE ARE NO CEILINGS SHALL BE INSTALLED EXPOSED. THIS WIRING SHALL BE INSTALLED NEATLY AND AT RIGHT ANGLES TO STRUCTURE. WIRING SHALL BE INDEPENDENTLY SUPPORTED AS REQUIRED. WIRING SHALL NOT LAY OVER OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN STORING OF ELECTRICAL EQUIPMENT AND MATERIAL.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING SHALL MATCH THE GENERAL CONSTRUCTION AS NEARLY AS POSSIBLE. REFER TO THE ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
- BLOCKING: ELECTRICAL CONTRACTOR SHALL PROVIDE ALL IN-WALL BLOCKING REQUIRED TO SUPPORT ELECTRICAL EQUIPMENT.
- WIRING METHOD IN RETURN AIR PLenum ABOVE CEILING SHALL BE: NONCOMBUSTIBLE OR LISTED / LABELED FOR RATING OF FLAME SPREAD AND SMOKE DEVELOPED INDEX PER INEC ARTICLE 300(c)(1)

## GENERAL LIGHTING NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITY AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL INCLUDE ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON/AUTO OFF. ACCEPTABLE MANUFACTURERS ARE: HUBBELL, SENSOR SWITCH, LEVITON, LIGHTOLIER, WATTS/OPPER.
- ALL LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BALLASTS OR BACKUP SHALL HAVE UNSWITCHED "HOT" WIRE INSTALLED TO FIXTURE FROM INDICATED LIGHTING CIRCUIT.

## GENERAL WIRING DEVICE NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- AT LOCATIONS WITH TWO OR MORE SWITCHES, SWITCHES SHALL BE INSTALLED GAINED IN A COMMON SWITCH BOX.
- ALL RECEPTACLES SHALL BE COMMERCIAL GRADE TYPE.

## GENERAL ADA REQUIREMENT NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- FOR ACCESSIBLE AREAS:
  - ELECTRICAL CONTRACTOR SHALL VERIFY ALL ACCESSIBLE REQUIREMENTS PRIOR TO ANY WORK.
  - ALL DEVICES WITHIN THESE AREAS SHALL BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
  - ALL FIRE ALARM SIGNAL DEVICES IN THESE AREAS SHALL COMPLY WITH ADA REQUIREMENTS.

## TELEPHONE AND DATA SYSTEMS NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUITS AND OTHER RACEWAYS REQUIRED FOR TELEPHONE AND DATA SYSTEMS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS FOR THE TELEPHONE AND DATA SYSTEMS EQUIPMENT.
- REFER TO THE LOW VOLTAGE SYSTEMS RESPONSIBILITY MATRIX.

## VOLTAGE DROP NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- VOLTAGE DROP IS NOT SHOWN ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES TO COMPLY THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES VOLTAGE DROP REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL UPSIZE FEEDER AND BRANCH CIRCUIT CONDUCTORS AS REQUIRED BASED ON ACTUAL INSTALLED CONDUCTOR LENGHTS.
- VOLTAGE DROP ON FEEDERS SHALL NOT EXCEED 2 PERCENT.
- VOLTAGE DROP ON BRANCH CIRCUITS SHALL NOT EXCEED 3 PERCENT.

## MECHANICAL EQUIPMENT DISCONNECT NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE MAXIMUM OVERCURRENT PROTECTION (MOOP) VALUE FOR MECHANICAL EQUIPMENT WHERE THE EQUIPMENT DISCONNECT IS PROVIDED BY THE EQUIPMENT MANUFACTURER.
- THE ELECTRICAL CONTRACTOR SHALL ADJUST THE EQUIPMENT CIRCUIT CONDUCTOR AND CIRCUIT BREAKER SIZES AS REQUIRED TO NOT EXCEED THE EQUIPMENT MOOP.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS PRIOR TO ORDERING AND INSTALLING PANELBOARDS, CONDUCTORS, AND CONDUITS.

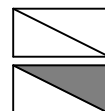
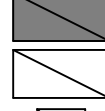
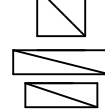
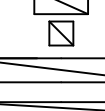
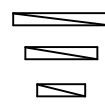
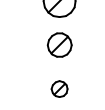
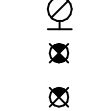
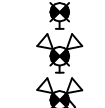
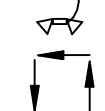
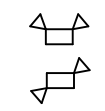
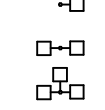
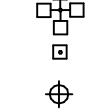

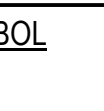
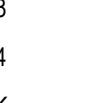
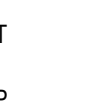
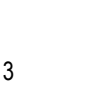





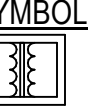
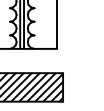
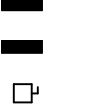

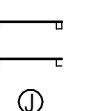
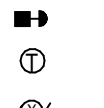
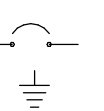
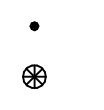
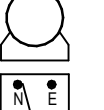
## ARC FLASH STUDY

- THE CONTRACTOR SHALL INCLUDE IN THE BID A COMPLETE ARC FLASH AND SHORT CIRCUIT STUDY FOR THE PROJECT PERFORMED BY A LICENSED ENGINEER.
- ALL EQUIPMENT SHORT CIRCUIT RATINGS SHALL BE ADJUSTED IN ACCORDANCE WITH THE SHORT CIRCUIT STUDY PRIOR TO ORDERING EQUIPMENT.
- PROVIDE ARC FLASH LABELS ON ALL EQUIPMENT / PANELBOARDS.

## FIRE ALARM SYSTEM

- THE CONTRACTOR SHALL PROVIDE A FIRE ALARM SYSTEM THAT IS COMPLIANT WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
- PROVIDE ADDITIONAL SIGNAL DEVICES AS REQUIRED TO COMPLY WITH LOCAL CODES.
- PROVIDE LOW FREQUENCY SOUNDERS IF REQUIRED BY LOCAL CODES.

## LIGHTING

SYMBOL	DESCRIPTION
	NO SHADING INDICATES NORMAL POWER
	HALF SHADED INDICATES LIFE SAFETY POWER
	FULL SHADED INDICATES EMERGENCY POWER
	24' x 48' LIGHTING FIXTURE
	24' x 24' LIGHTING FIXTURE
	12' x 48' LIGHTING FIXTURE
	12' x 36' LIGHTING FIXTURE
	12' x 24' LIGHTING FIXTURE
	12' x 12' LIGHTING FIXTURE
	12' x 96' LIGHTING FIXTURE
	6' x 96' LIGHTING FIXTURE
	6' x 48' LIGHTING FIXTURE
	6' x 36' LIGHTING FIXTURE
	6' x 24' LIGHTING FIXTURE
	8' DOWNLIGHT
	4' DOWNLIGHT
	WALL MOUNTED LIGHT
	CEILING EXIT LIGHT (DUAL FACED)
	CEILING EXIT LIGHT (SINGLE FACE)
	WALL EXIT LIGHT
	WALL EXIT WITH EMERGENCY LIGHTS
	WALL EXIT WITH INTERIOR AND EXTERIOR EMERGENCY LIGHTS
	EXIT LIGHT DIRECTIONAL ARROWS
	WALL EMERGENCY BATTERY LIGHT
	CEILING EMERGENCY BATTERY LIGHT
	EXTERIOR POLE LIGHT (ONE HEAD)
	EXTERIOR POLE LIGHT (TWO HEADS)
	EXTERIOR POLE LIGHT (THREE HEADS)
	EXTERIOR POLE LIGHT (FOUR HEADS)
	EXTERIOR POLE LIGHT (TOP MOUNT)
	EXTERIOR BOLLARD

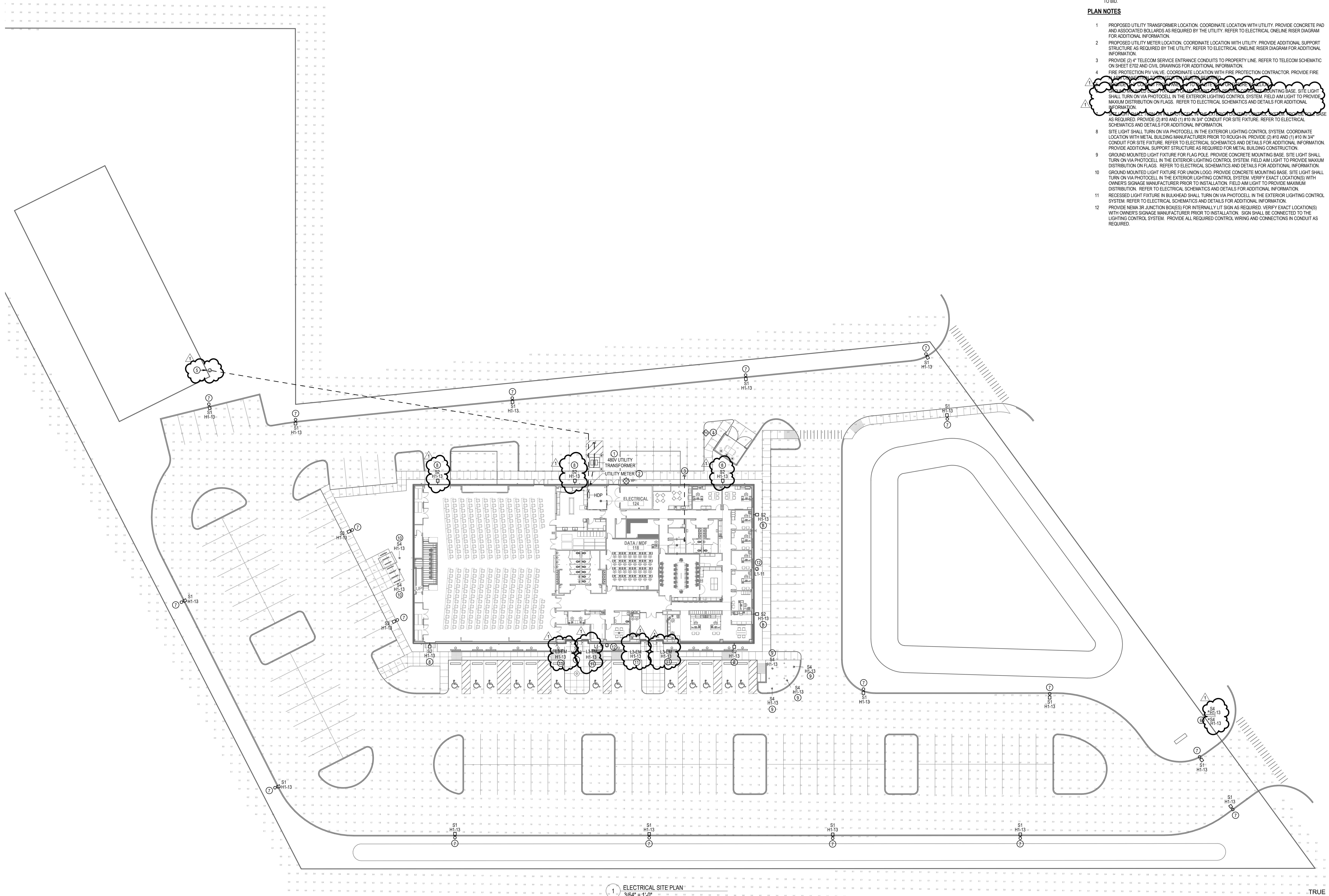


### GENERAL NOTES

- A. ALL WORK SHOWN IS NEW AND PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
- B. REMOVE OR RELOCATE ANY AND ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- C. COORDINATE ALL INCOMING ELECTRICAL SERVICE WORK WITH THE ELECTRICAL UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE ELECTRICAL UTILITY COMPANY TO PROVIDE NEW ELECTRICAL SERVICES TO THE PROJECT BUILDINGS.
- D. COORDINATE ALL INCOMING TELEPHONE SERVICE WORK WITH THE LOCAL TELEPHONE UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL TELEPHONE UTILITY COMPANY TO PROVIDE NEW TELEPHONE SERVICES TO THE PROJECT BUILDINGS.
- E. PROVIDE FULL STRENGTH IN ALL UTILITY CONDUITS.
- F. ALL EXTERIOR CONDUITS SHALL BE INSTALLED BELOW THE FROST LINE.
- G. COORDINATE LOCATIONS OF ALL UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES, UNDERGROUND DRAINAGE, SERVICES, STRUCTURES, AND EQUIPMENT.
- H. PROVIDE ADDITIONAL HANDHOLES AND MANHOLES AS REQUIRED BY THE UTILITY COMPANIES. COORDINATE REQUIREMENTS WITH UTILITY COMPANIES PRIOR TO BID.
- I. COORDINATE ALL ROUTING AND TERMINATION LOCATIONS WITH THE UTILITY COMPANIES PRIOR TO BID.

### PLAN NOTES

- 1 PROPOSED UTILITY TRANSFORMER LOCATION. COORDINATE LOCATION WITH UTILITY. PROVIDE CONCRETE PAD AND ASSOCIATED BOLLARDS AS REQUIRED BY THE UTILITY. REFER TO ELECTRICAL ONLINE RESIN DIAGRAM FOR ADDITIONAL INFORMATION.
- 2 PROVIDE UTILITY METER LOCATION. COORDINATE LOCATION WITH UTILITY. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED BY THE UTILITY. REFER TO ELECTRICAL ONLINE RESIN DIAGRAM FOR ADDITIONAL INFORMATION.
- 3 PROVIDE (2) 1/4" TELECOM SERVICE ENTRANCE CONDUITS TO PROPERTY LINE. REFER TO TELECOM SCHEMATIC ON SHEET E&T AND CUD DRAWINGS FOR ADDITIONAL INFORMATION.
- 4 FIRE PROTECTION PIV VALVE. COORDINATE LOCATION WITH FIRE PROTECTION CONTRACTOR. PROVIDE FIRE SHIELDING AND FIRE PROTECTION. SEE ELECTRICAL SCHEDULING CONTRACT. SYSTEM FIELD AREA LIGHT TO PROVIDE MAXIMUM DISTRIBUTION FOR FLAME. REFER TO ELECTRICAL SCHEMATICS AND DETAILS FOR ADDITIONAL INFORMATION.
- 5 GROUND MOUNTED LIGHT FIXTURE FOR FLAG POLE. PROVIDE CONCRETE MOUNTING BASE. SITE LIGHT SHALL TURN ON VIA PHOTOCELL IN THE EXTERIOR LIGHTING CONTROL SYSTEM. FIELD AREA LIGHT TO PROVIDE MAXIMUM DISTRIBUTION FOR FLAME. REFER TO ELECTRICAL SCHEMATICS AND DETAILS FOR ADDITIONAL INFORMATION.
- 6 GROUND MOUNTED LIGHT FIXTURE FOR UNIFORM LIGHT. PROVIDE CONCRETE MOUNTING BASE. SITE LIGHT SHALL TURN ON VIA PHOTOCELL IN THE EXTERIOR LIGHTING CONTROL SYSTEM. PROVIDE EXACT LOCATIONS WITH CONCRETE MOUNTING BASE. REFER TO ELECTRICAL SCHEMATICS AND DETAILS FOR ADDITIONAL INFORMATION.
- 7 RECESSED LIGHT LIGHT FIXTURE IN BULKHEAD SHALL TURN ON VIA PHOTOCELL IN THE EXTERIOR LIGHTING CONTROL SYSTEM. REFER TO ELECTRICAL SCHEDULING CONTRACT FOR LIGHTING CONTROL.
- 8 PROVIDE NEMA 3R JUNCTION BOXES FOR INTERNALLY TUN VIA SGN AS REQUIRED. VERIFY EXACT LOCATIONS) WITH OWNER'S SIGNAGE MANUFACTURER PRIOR TO INSTALLATION. SIGN SHALL BE CONNECTED TO THE LIGHTING CONTROL SYSTEM. PROVIDE ALL REQUIRED CONTROL WIRING AND CONNECTIONS IN CONDUIT AS REQUIRED.



TRUE  
NORTH

A compass rose with a circle divided into four quadrants by a vertical line. The top half is shaded black, and the bottom half is white. A vertical line extends from the center of the circle downwards.

LiUNA Local 120

**CORPORATE CAMPUS**

5430 LAFAYETTE RD.  
INDIANAPOLIS, IN

PERMIT SET

△ REVISIONS:

1	02.11.2022	ADDENDUM 3
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DATE: **11.2022**  
 DESIGN PROJECT NUMBER: **1102**  
 CLIENT PROJECT NUMBER:

DRAWN BY:  
**AW**

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DRAWING TITLE:

## ELECTRICAL SITE PLAN

DRAWING NUMBER:  
**E101**



B. PROVIDE FOR DRAWING EIGHT FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.  
 C. COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.  
 D. COORDINATE WITH M AND P SERIES DRAWINGS FOR ALL ELECTRICAL REQUIREMENTS.  
 E. PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.  
 F. COORDINATE WITH ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON  
 DEVICE LOCATIONS PRIOR TO ROUGH-IN.  
 G. COORDINATE ALL WORK WITH THE OWNER'S SERVICES PROVIDERS FOR DEVICES AND WIRING FOR DATA, I.T.,  
 AND SECURITY.  
 H. ELECTRICAL SERVICES SHALL NOT ROUTE THROUGH ANY IDF OR MDF ROOM UNLESS DIRECTLY SERVING THAT  
 ROOM.  
 I. MANUFACTURER SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE  
 WARNING RECEPTACLE AS REQUIRED.  
 J. ALL RECEPTACLES WITH SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI  
 ON PLANS, BUT SHALL BE PROTECTED ACCORDING TO THE REQUIREMENT.  
 K. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20P UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED  
 WITH 2 (X) 1/0 TO 1/0 NEUTRAL + 1/0 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED  
 EQUIPMENT.  
 L. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.  
 M. PROVIDE VENTILATION EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND  
 STRUCTURE PRIOR TO ROUGH-IN.  
 N. ALL EXIST. EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY  
 BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT (ONLY) SHALL BE PROVIDED WITH AN UNSWITCHED "HOT"  
 CIRCUIT CONDUCTOR.  
 O. LOCATION THROUGH TWO OR MORE WALL SWITCHES. ALL SWITCHES SHALL BE INSTALLED GANGED IN A  
 SINGLE BOX.  
 P. AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED  
 ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.  
 Q. PROVIDE ALL SENSORS FOR LIGHT, MOTION, AND TEMPERATURE. THE MANUFACTURER TO BE COVERED, SENSOR  
 MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF  
 SPACE OR ACCESS TO THE AREA TO BE COVERED. PROVIDE ALL SENSORS WITH A BATTERY BACKUP. BATTERY  
 REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL-TECHNOLOGY TYPE. SENSORS SHALL  
 PROVIDE ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHTING IN ROOMAREA.  
 R. PROVIDORS SHALL OPERATE IN A "YIELD TO THE TRADE" MANUAL ON/AN/OFF.  
 S. PROVIDE PULL STRING IN ALL EMPLOY CONDITIONS.  
 T. CONTRACTOR TO PROVIDE ROUGH-INS ONLY FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS. DATA, I.T.  
 SERVICES, AND SECURITY SYSTEMS DEVICES AND WIRING TO BE PROVIDED BY THE OWNER'S SYSTEMS  
 VENDORS.

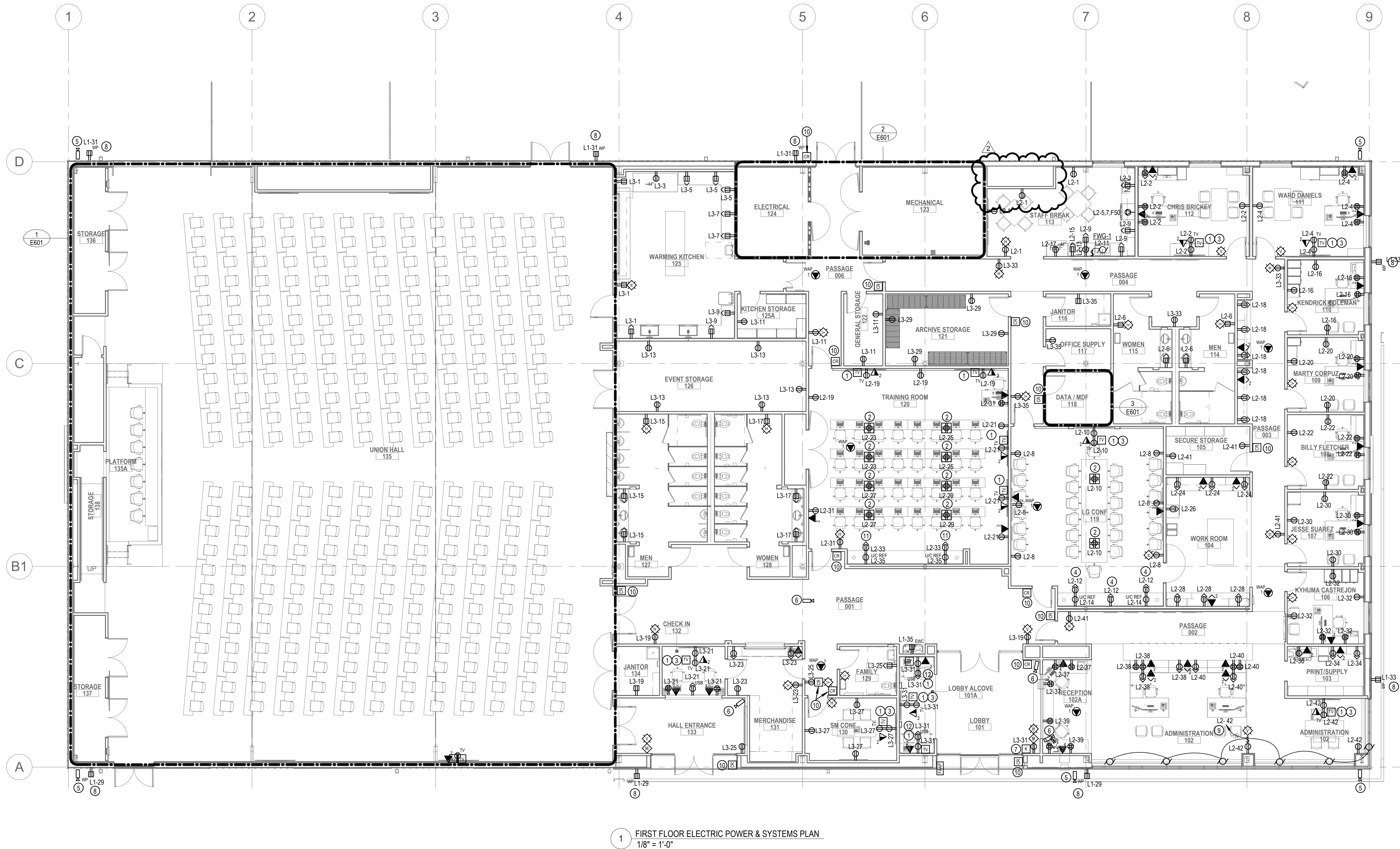
- 1 SURFACE MOUNT EMERGENCY LIGHT TO BOTTOM OF JOIST.
- 2 SURFACE MOUNT / SUSPEND LIGHT FIXTURE TO +17'-0" A.F.F. TO BOTTOM OF FIXTURE. COORDINATE LOCATION OF FIXTURE WITH STRUCTURAL BEAMS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
- 3 INSTALL LIGHT FIXTURE ABOVE VANITY MIRROR AT HEIGHT DETERMINED BY THE ARCHITECT
- 4 NOT USED.
- 5 LIGHTING IN CORRIDOR SHALL FUNCTION AS AUTOMATIC ON / AUTOMATIC OFF VIA LOCAL OCCUPANCY SENSOR(S). PROVIDE ALL EQUIPMENT AND CONTROL WIRING AS REQUIRED. SENSOR(S) PROVIDE ALL EQUIPMENT AND CONTROL WIRING AS REQUIRED.
- 6 REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.



# E201



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#### GENERAL NOTES

- REFER TO DRAWING E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.
- COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.
- REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.
- REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- COORDINATE ALL WORK WITH THE OWNER'S SYSTEMS VENDORS FOR DEVICES AND WIRING FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS.
- ELECTRICAL SERVICES SHALL NOT ROUTE THROUGH ANY IDF OR MDF ROOM UNLESS DIRECTLY SERVING THAT ROOM.
- CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE MATCHING RECEPTACLE AS REQUIRED.
- ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.
- ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2) #10 + (1) #10 NEUTRAL + (1) #10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND STRUCTURE PRIOR TO ROUGH-IN.
- ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT (NL) SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" CIRCUIT CONDUCTOR.
- AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A COMMON SWITCH BOX.
- AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.
- WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. SENSOR MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITIES AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL INCLUDED ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON/AUTO OFF.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- CONTRACTOR TO PROVIDE ROUGH-INS ONLY FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS. DATA, I.T. SERVICES, AND SECURITY SYSTEMS DEVICES AND WIRING TO BE PROVIDED BY THE OWNERS SYSTEMS VENDORS.

#### PLAN NOTES

- REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION FOR TV AND AV ROUGH-IN DEVICES. CONNECT COMPLETE VIA CIRCUIT INDICATED. HEIGHT DETERMINED BY ARCHITECT.
- FLOOR BOX TO HAVE (2) DUPLEX RECEPTACLES. FLOOR BOX TO BE SIMILAR TO WALKER EVOLUTION SERIES FLOOR BOX. COORDINATE LID WITH FLOOR TO BE INSTALLED. VERIFY LOCATION AND LID FINISH COLOR WITH ARCHITECT PRIOR TO ROUGH-IN.
- TV AT THIS LOCATION SHALL HAVE THIN CLIENT MOUNTED INSIDE TV DISPLAY BOX. REFER TO ELECTRICAL SCHEMATICS FOR ADDITIONAL INFORMATION.
- RECEPTACLE ABOVE COUNTER SHALL BE LOCATED BELOW WOOD TRIM PIECE FOR WALL MURAL. VERIFY EXACT LOCATION WITH OWNERS SIGNAGE VENDOR PRIOR TO ROUGH-IN. PROVIDE BLACK RECEPTACLE AND COVER PLATE.
- CAMERA PROVIDED AND MOUNTED ON WALL BY OTHERS. PROVIDE WEATHERPROOF BOX WITH 3/4" CONDUIT TO INTERIOR CEILING SPACE. VERIFY CAMERA LOCATION WITH SECURITY SYSTEM VENDOR. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED FOR METAL BUILDING CONSTRUCTION.
- CEILING MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY OTHERS. VERIFY CAMERA LOCATION WITH SECURITY SYSTEM VENDOR.
- SECURITY SYSTEM KEYPAD PROVIDED AND INSTALLED BY OTHERS. PROVIDE ROUGH-INS AND CONTROL WIRING IN CONDUIT AS REQUIRED. VERIFY EXACT REQUIREMENTS WITH SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN.
- RECEPTACLE MOUNTED TO EXTERIOR OF METAL BUILDING. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED FOR METAL BUILDING CONSTRUCTION.
- CIRCUIT CONNECTION TO MOTORIZED SHADES. PROVIDE WALL CONTROL STATION, ASSOCIATED BACKBOXES AND CONTROL WIRING IN CONDUIT AS REQUIRED. ALL MOTORIZED SHADES SHALL OPERATE TOGETHER VIA A SINGLE WALL CONTROL STATION.
- CARD READER AND DOOR ACCESS CONTROL EQUIPMENT AT THE DOOR. VERIFY ELECTRICAL ROUGH-IN AND WIRING WITH THE ACCESS CONTROL SYSTEM VENDOR. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION. FOR EXTERIOR MOUNTED CARD READERS, PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED FOR METAL BUILDING CONSTRUCTION.
- RECEPTACLE ABOVE COUNTER SHALL BE LOCATED BELOW WALL GRAPHIC. VERIFY EXACT LOCATION WITH OWNERS SIGNAGE VENDOR PRIOR TO ROUGH-IN.
- DESK MONITOR AT THIS LOCATION SHALL HAVE THIN CLIENT MOUNTED INSIDE TV DISPLAY BOX. MOUNT TV DISPLAY BOX BELOW COUNTERTOP AND ROUTE CABLES THROUGH GROMMET TO DESKTOP MONITOR. REFER TO ELECTRICAL SCHEMATICS FOR ADDITIONAL INFORMATION.

#### PERMIT SET

##### REVISIONS:

- 01.07.2022 ADDENDUM 1
- 02.11.2022 ADDENDUM 3

##### DATE:

2.11.2022

arcDESIGN PROJECT NUMBER:

21102

CLIENT PROJECT NUMBER:

DRAWN BY:

JAW

DRAWING TITLE:

FIRST FLOOR  
POWER &  
SYSTEMS PLAN

DRAWING NUMBER:

E301





## △ REVISIONS:

- |   |            |            |
|---|------------|------------|
| 1 | 01.07.2022 | ADDENDUM 1 |
| 2 | 02.11.2022 | ADDENDUM 3 |

## DATE:

**2.11.2022**

arcDESIGN PROJECT NUMBER:

**21102**

CLIENT PROJECT NUMBER:

## DRAWN BY:

**JAW**

## DRAWING TITLE:

**FIRST FLOOR  
MECHANICAL  
EQUIPMENT  
POWER AND  
SYSTEMS PLAN**

## DRAWING NUMBER:

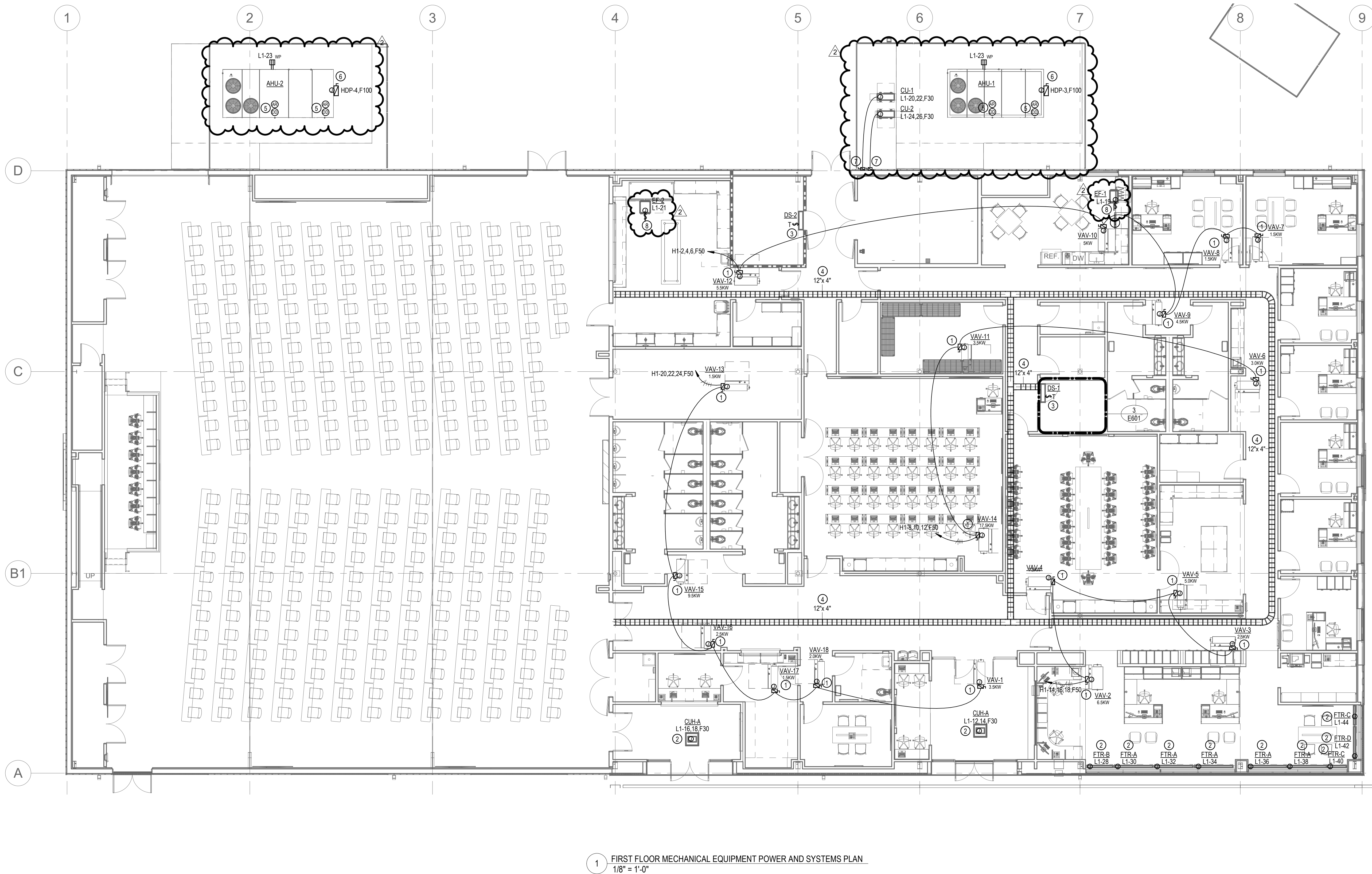
**E301A**TRUE  
NORTH

## GENERAL NOTES

- A. REFER TO DRAWING E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.  
B. COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.  
C. REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.  
D. PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.  
E. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON  
DEVICE LOCATIONS PRIOR TO ROUGH-IN.  
F. COORDINATE ALL WORK WITH THE OWNER'S SYSTEMS VENDORS FOR DEVICES AND WIRING FOR DATA, I.T.  
SERVICES, AND SECURITY SYSTEMS.  
G. ELECTRICAL SERVICES SHALL NOT ROUTE THROUGH ANY IDF OR MDF ROOM UNLESS DIRECTLY SERVING THAT  
ROOM.  
H. CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE  
MATCHING RECEPTACLE AS REQUIRED.  
I. ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI  
ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.  
J. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED  
WITH (2) #10 - (1) #10 NEUTRAL - (1) #10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED  
EQUIPMENT PRIOR TO INSTALLATION.  
K. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.  
ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND  
STRUCTURE PRIOR TO ROUGH-IN.  
L. ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY  
BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT ("NL") SHALL BE PROVIDED WITH AN UNSWITCHED "HOT"  
CIRCUIT CONDUCTOR.  
M. AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A  
COMMON SWITCH BOX.  
N. AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED  
ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.  
O. WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. SENSOR  
MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF  
COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITIES AS  
REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL  
INCLUDED ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA.  
SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON/AUTO OFF.  
P. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.  
Q. CONTRACTOR TO PROVIDE ROUGH-INS ONLY FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS. DATA, I.T.  
SERVICES, AND SECURITY SYSTEMS DEVICES AND WIRING TO BE PROVIDED BY THE OWNER'S SYSTEMS  
VENDORS.

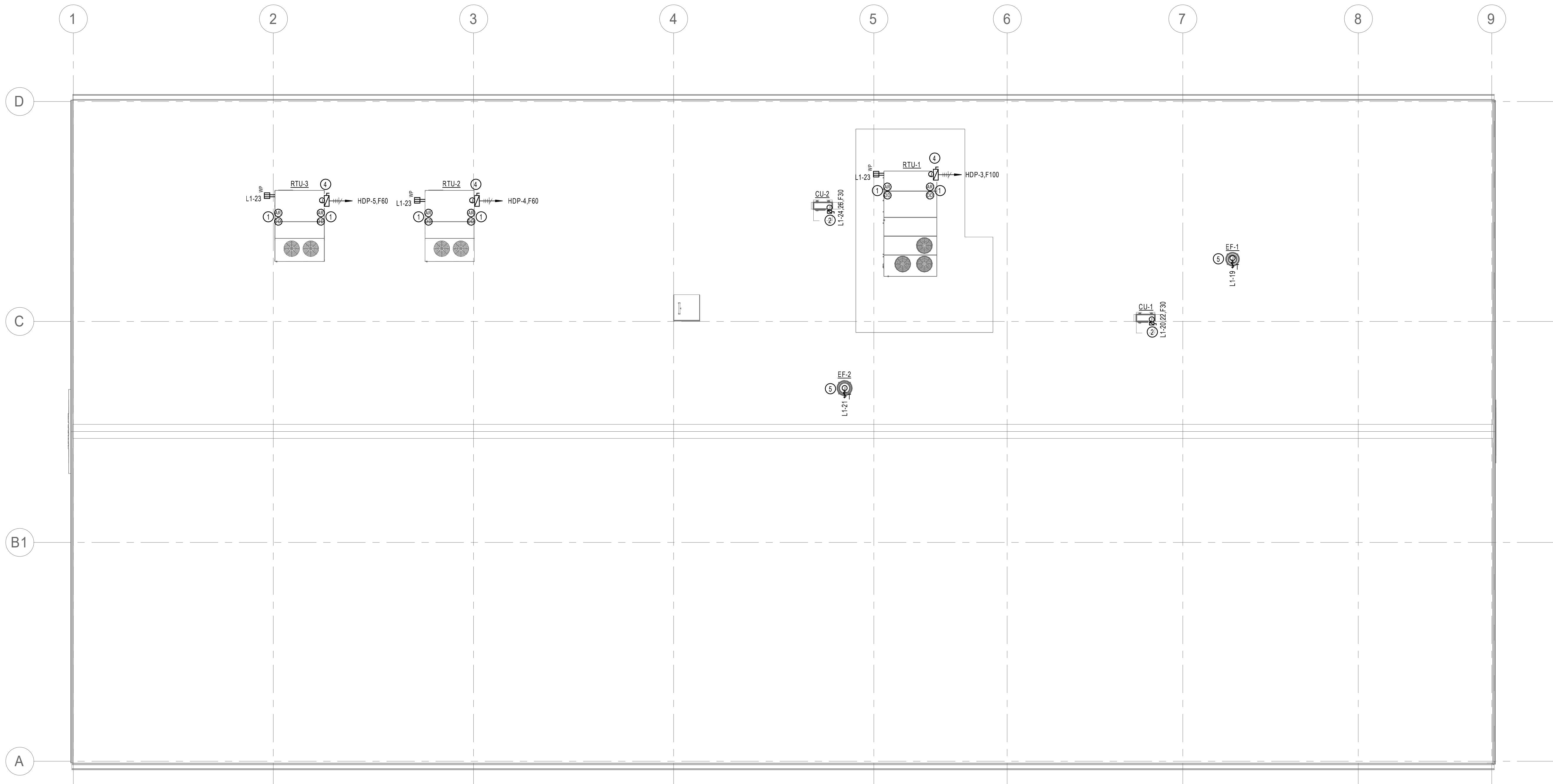
## PLAN NOTES

1. PROVIDE 480V-3P, 60A FUSIBLE DISCONNECT AT THE VAV TERMINAL BOX. CONNECT INDICATED CIRCUIT TO VAV  
TERMINAL BOX THROUGH FUSIBLE DISCONNECT SWITCH. FUSE THE SWITCH PER VAV TERMINAL BOX  
MANUFACTURER'S RECOMMENDATIONS.  
2. DISCONNECT PROVIDED BY MANUFACTURER.  
3. INDOOR DUCTLESS SPLIT POWERED BY OUTDOOR UNIT. REFER TO ROOF POWER AND SYSTEMS PLAN FOR  
ADDITIONAL INFORMATION.  
4. PROVIDE CABLE TRAY AS REQUIRED.  
5. FIRE ALARM DUCT MOUNTED SMOKE DETECTOR INSTALLED IN SUPPLY DUCTWORK INSIDE THE BUILDING IN  
LOCATION AS REQUIRED BY MANUFACTURER. PROVIDE FIRE ALARM ADDRESSABLE RELAY INTERLOCKED WITH  
UNIT TO SHUT DOWN UNIT WHEN IN ALARM. PROVIDE ALL CONTROL WIRING IN CONDUIT AS REQUIRED.  
6. 3P-100A, 480V, NEMA 3R, FUSIBLE DISCONNECT SWITCH FUSED PER UNIT MANUFACTURER'S RECOMMENDATIONS.  
PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.  
7. 2P-30A, 208V, NEMA 3R, FUSIBLE DISCONNECT SWITCH FUSED PER UNIT MANUFACTURER'S RECOMMENDATIONS.  
PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.  
8. PROVIDE SINGLE POLE TOGGLE SWITCH DISCONNECT.



1 FIRST FLOOR MECHANICAL EQUIPMENT POWER AND SYSTEMS PLAN  
1/8" = 1'-0"





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

#### GENERAL NOTES

- REFER TO DRAWING E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.
- COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.
- REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.
- REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- COORDINATE ALL WORK WITH THE OWNER'S SYSTEMS VENDORS FOR DEVICES AND WIRING FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS.
- ELECTRICAL SERVICES SHALL NOT ROUTE THROUGH ANY IDF OR MDF ROOM UNLESS DIRECTLY SERVING THAT ROOM.
- CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE MATCHING RECEPTACLE AS REQUIRED.
- ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.
- ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2) #10 + (1) #10 NEUTRAL + (1) #10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND STRUCTURE PRIOR TO ROUGH-IN.
- ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT ("NL") SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" CIRCUIT CONDUCTOR.
- AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A COMMON SWITCH BOX.
- AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.
- WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. SENSOR MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITIES AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL INCLUDED ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON/AUTO OFF.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- CONTRACTOR TO PROVIDE ROUGH-INS ONLY FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS. DATA, I.T. SERVICES, AND SECURITY SYSTEMS DEVICES AND WIRING TO BE PROVIDED BY THE OWNERS SYSTEMS VENDORS.

#### PLAN NOTES

- FIRE ALARM DUCT MOUNTED SMOKE DETECTOR INSTALLED IN SUPPLY DUCTWORK INSIDE THE BUILDING IN LOCATION AS REQUIRED BY MANUFACTURER. PROVIDE FIRE ALARM ADDRESSABLE RELAY INTERLOCKED WITH UNIT TO SHUT DOWN UNIT WHEN IN ALARM. PROVIDE ALL CONTROL WIRING IN CONDUIT AS REQUIRED.
- 2P-30A, 208V, NEMA 3R, FUSIBLE DISCONNECT SWITCH FUSED PER UNIT MANUFACTURERS RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
- 3P-100A, 480V, NEMA 3R, FUSIBLE DISCONNECT SWITCH FUSED PER UNIT MANUFACTURERS RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
- PROVIDE SINGLE POLE TOGGLE SWITCH DISCONNECT.

#### BID SET

△ REVISIONS:

DATE:

12.21.2021

arcDESIGN PROJECT NUMBER:

21102

CLIENT PROJECT NUMBER:

DRAWN BY:

JAW

DRAWING TITLE:

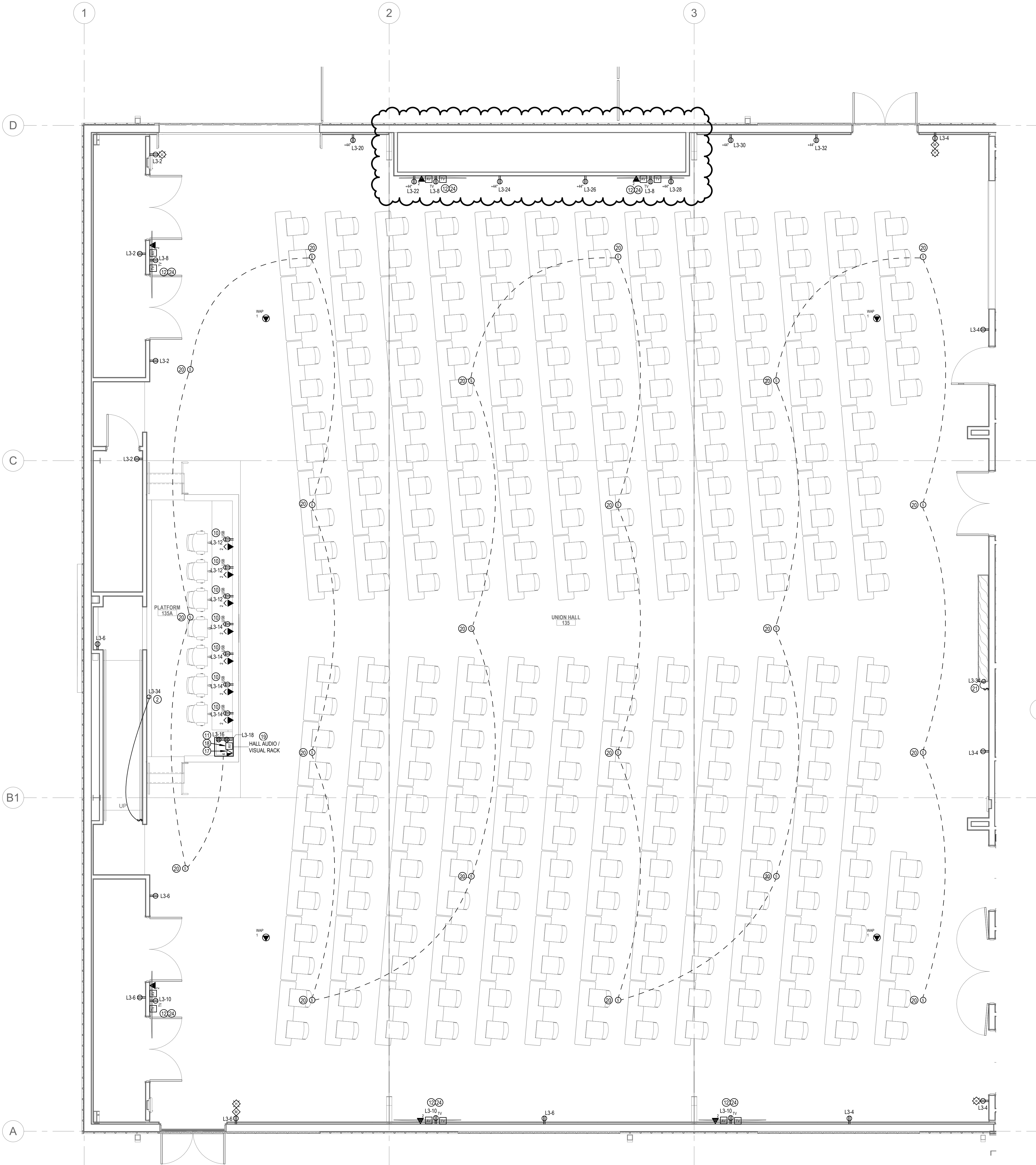
ROOF  
ELECTRICAL  
POWER &  
SYSTEMS PLAN

DRAWING NUMBER:

E302







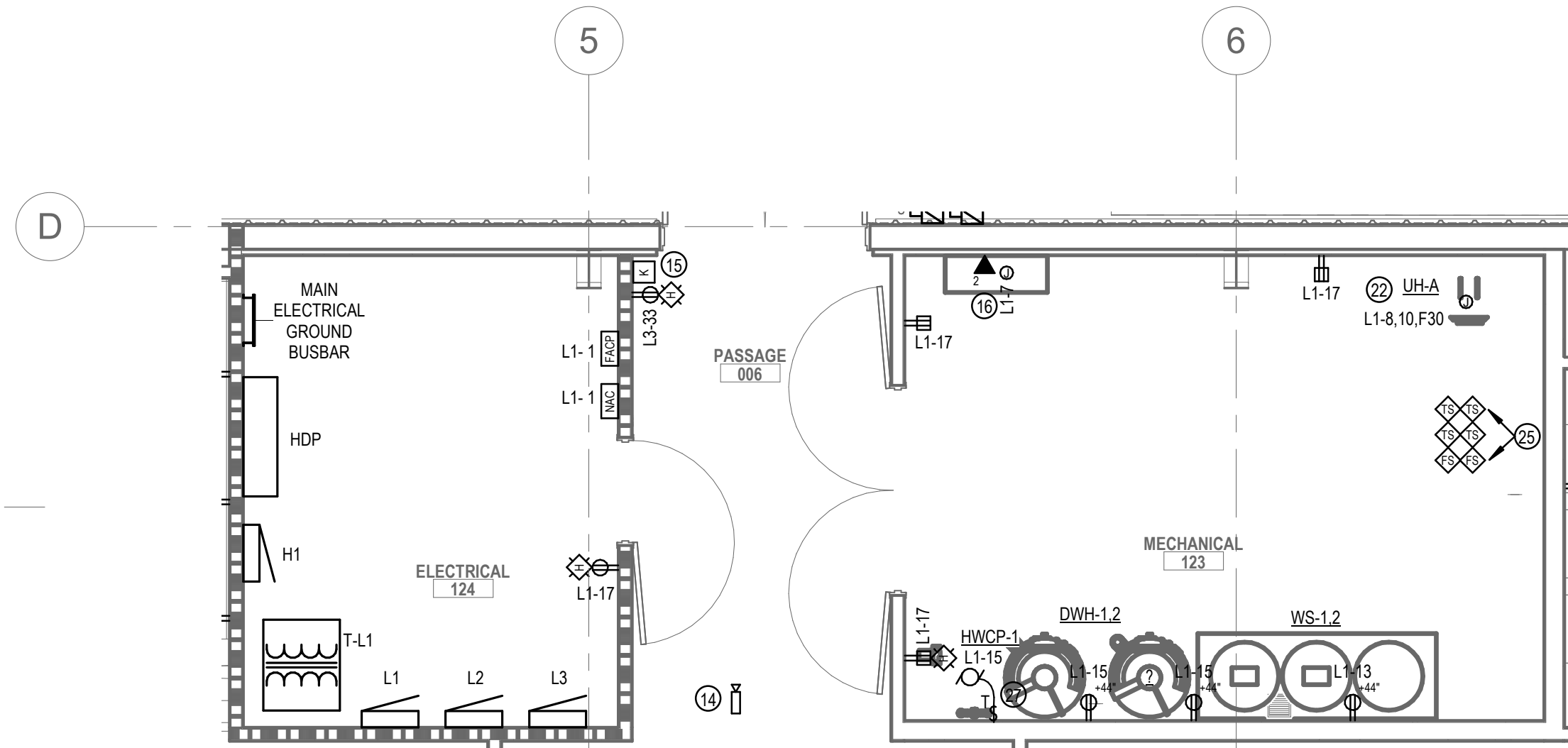
1 ENLARGED UNION HALL POWER & SYSTEMS PLAN  
1/4" = 1'-0"

#### GENERAL NOTES

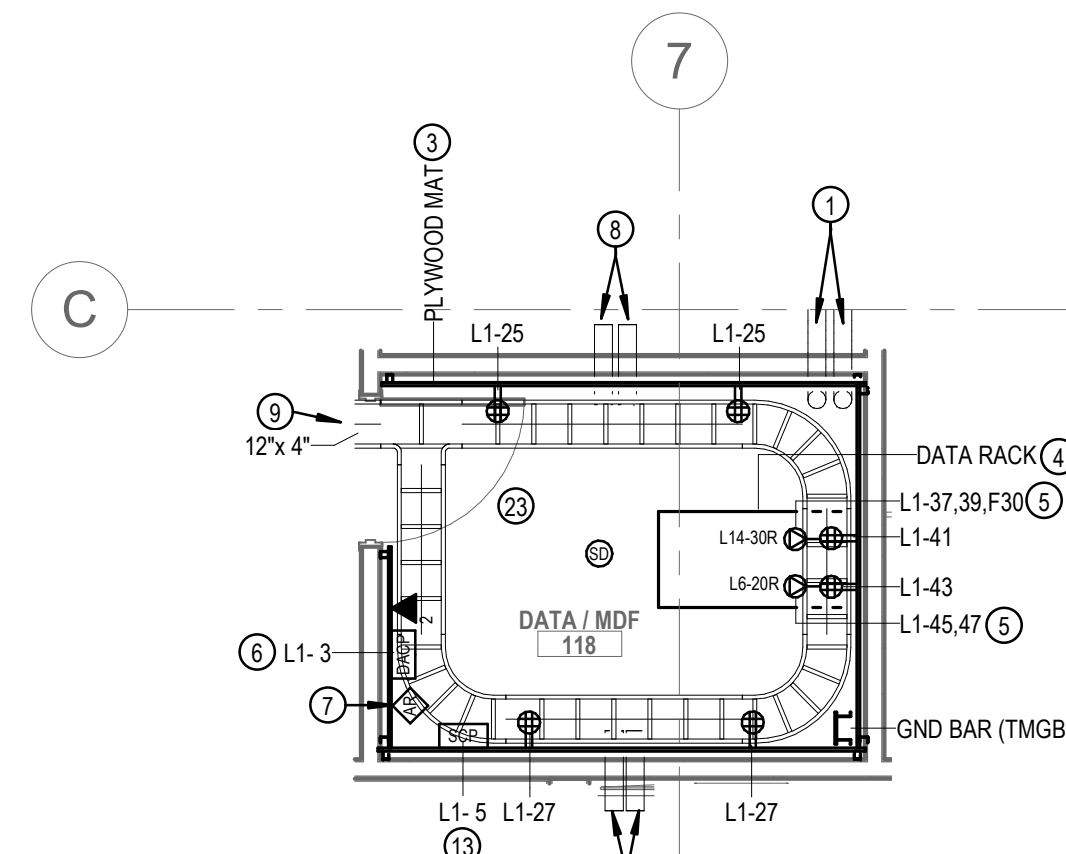
- REFER TO DRAWING E601 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.
- COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.
- REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.
- REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- COORDINATE ALL WORK WITH THE OWNER'S SYSTEMS VENDORS FOR DEVICES AND WIRING FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS.
- ELECTRICAL SERVICES SHALL NOT ROUTE THROUGH ANY IDF OR MDF ROOM UNLESS DIRECTLY SERVING THAT ROOM.
- CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE MATCHING RECEPTACLE AS REQUIRED.
- ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.
- ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2) #10 + (1) #10 NEUTRAL + (1) #10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND STRUCTURE PRIOR TO ROUGH-IN.
- ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT ("NL") SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" CIRCUIT CONDUCTOR.
- AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A COMMON SWITCH BOX.
- AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.
- WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. SENSOR MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITIES AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL-TECHNOLOGY TYPE. SENSORS SHALL INCLUDE ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE. MANUAL ON/AUTO OFF.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- CONTRACTOR TO PROVIDE ROUGH-INS ONLY FOR DATA, I.T. SERVICES, AND SECURITY SYSTEMS. DATA, I.T. SERVICES, AND SECURITY SYSTEMS DEVICES AND WIRING TO BE PROVIDED BY THE OWNERS SYSTEMS VENDORS.

#### PLAN NOTES

- PROVIDE (2) 4" CONDUITS FROM TELECOM DMARC LOCATION TO PROPERTY LINE. VERIFY EXACT LOCATION WITH TELECOM UTILITY. CONTRACTOR SHALL COORDINATE ALL ASPECTS OF TELECOM INSTALLATION WITH UTILITY.
- PROVIDE SWITCH AND CIRCUIT CONNECTION TO OWNER PROVIDED SIGNAGE. VERIFY EXACT LOCATION WITH OWNER'S SIGNAGE VENDOR PRIOR TO ROUGH-IN.
- PROVIDE 3/4" THICK A-C GRADE, VOID-FREE PLYWOOD MAT FROM FLOOR TO 8'-0" HIGH FOR TELECOM BACKBOARD. PAINT ALL FACES AND EDGES OF PLYWOOD SECTIONS WITH A MINIMUM OF TWO COATS OF FIRE-RETARDANT PAINT PRIOR TO INSTALLATION.
- TELECOMMUNICATIONS EQUIPMENT RACK(S). REFER TO TELECOMMUNICATIONS SCHEMATICS FOR ADDITIONAL INFORMATION.
- PROVIDE NEMA RECEPTACLE TYPE AS INDICATED ON DRAWING. MOUNT RECEPTACLE ALONG CABLE TRAY ABOVE RACK LOCATION. PROVIDE ADDITIONAL UNISTRUT FOR MOUNTING AS REQUIRED. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
- DOOR ACCESS CONTROL PANEL PROVIDED BY OTHERS. REFER TO DOOR ACCESS SCHEMATICS FOR ADDITIONAL INFORMATION. COORDINATE ROOM LAYOUT AND ALL OTHER ACCESS CONTROL REQUIREMENTS WITH VENDOR.
- FIRE ALARM ADDRESSABLE RELAY INTERLOCKED WITH DOOR SECURITY PANEL TO RELEASE LOCKS UPON FIRE ALARM.
- PROVIDE (2) 4" CONDUITS SLEEVES THROUGH WALL JUST ABOVE CABLE TRAY.
- PROVIDE CABLE TRAY AS REQUIRED IN I.T. ROOM.
- RECEPTACLE SHALL BE TAMPER RESISTANT. 2 USB-A PORT USB. 5A CHARGING OUTLET. MOUNT RECEPTACLE ABOVE COUNTER TOP. RECEPTACLE FOR AUDIO/VIDEO EQUIPMENT CABINET. VERIFY EXACT LOCATION WITH EQUIPMENT AND CASEWORK TO BE INSTALLED. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION FOR TV AND AV ROUGH-IN DEVICES. CONNECT COMPLETE VIA CIRCUIT INDICATED. HEIGHT DETERMINED BY ARCHITECT.
- SECURITY CONTROL PANEL PROVIDED BY OTHERS. COORDINATE ROOM LAYOUT AND ALL OTHER SECURITY REQUIREMENTS WITH VENDOR.
- CEILING MOUNTED SECURITY CAMERA PROVIDED AND INSTALLED BY OTHERS. VERIFY CAMERA LOCATION WITH SECURITY SYSTEM VENDOR.
- SECURITY SYSTEM KEYPAD PROVIDED AND INSTALLED BY OTHERS. PROVIDE ROUGH-INS AND CONTROL WIRING IN CONDUIT AS REQUIRED. VERIFY EXACT REQUIREMENTS WITH SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN.
- TEMPERATURE CONTROL PANEL PROVIDED BY OTHERS. PROVIDE 120V AND DATA CONNECTION AS REQUIRED.
- HALL TV INPUT LOCATION. PROVIDE 4-GANG BOX WITH (4) 1-1/2" C TO ABOVE ACCESSIBLE CEILING FOR AV AND TELECOMMUNICATIONS WIRING. COORDINATE COVER WITH OWNER.
- HALL AUDIO / VISUAL RACK TELECOM AND CABLE TV INPUT LOCATION. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
- INSTALL AUDIO / VISUAL SYSTEM RACK IN CASEWORK. RACK SHALL BE NO MORE THAN 34" TALL TO CONCEAL FROM VIEW. COORDINATE LOCATION OF EQUIPMENT / DEVICES WITH CASEWORK MANUFACTURER. REFER TO UNION HALL AUDIO/VIDEO SYSTEM DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PROVIDE PENDANT MOUNTED SPEAKER AT LOCATION SHOWN. MOUNT SPEAKER SO THAT BOTTOM OF SPEAKER IS +17'-0" AFF. SPEAKER SHALL BE 8-INCH 2-WAY FULL-RANGE SPEAKER WITH MINIMUM 16-WATT 70-VOLT RATING. SPEAKER SHALL BE SOUND TUBE IRS82-EZ OR SIMILAR.
- PROVIDE DIMMER SWITCH AND CIRCUIT CONNECTION TO OWNERS EXISTING MEMORIAL CASE. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. ENSURE DIMMER SWITCH IS COMPATIBLE WITH EXISTING MEMORIAL CASE LIGHTING.
- DISCONNECT PROVIDED BY MANUFACTURER.
- INDOOR DUCTLESS SPLIT POWERED BY OUTDOOR UNIT. REFER TO ROOF POWER AND SYSTEMS PLAN FOR ADDITIONAL INFORMATION.
- TV AT THIS LOCATION SHALL HAVE CONNECT TO HALL AUDIO / VISUAL RACK. REFER TO ELECTRICAL SCHEMATICS FOR ADDITIONAL INFORMATION.
- SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES. CONNECT SWITCHES COMPLETE TO FIRE ALARM CONTROL PANEL. COORDINATE THE EXACT NUMBER AND LOCATION OF TAMPER, FLOW AND ROOM TEMPERATURE SUPERVISORY SWITCHES WITH SPRINKLER CONTRACTOR.
- PROVIDE SINGLE POLE TOGGLE SWITCH DISCONNECT SWITCH.



2 ENLARGED ELECTRICAL AND MECHANICAL ROOMS POWER & SYSTEMS PLAN  
1/4" = 1'-0"



3 ENLARGED I.T. ROOM POWER & SYSTEMS PLAN  
1/4" = 1'-0"

#### PERMIT SET

##### REVISIONS:

- 01.14.2022 ADDENDUM 2
- 02.11.2022 ADDENDUM 3

##### DATE:

2.11.2022

##### arcDESIGN PROJECT NUMBER:

21102

##### CLIENT PROJECT NUMBER:

##### DRAWN BY:

JAW

##### DRAWING TITLE:

## ENLARGED ELECTRICAL PLANS

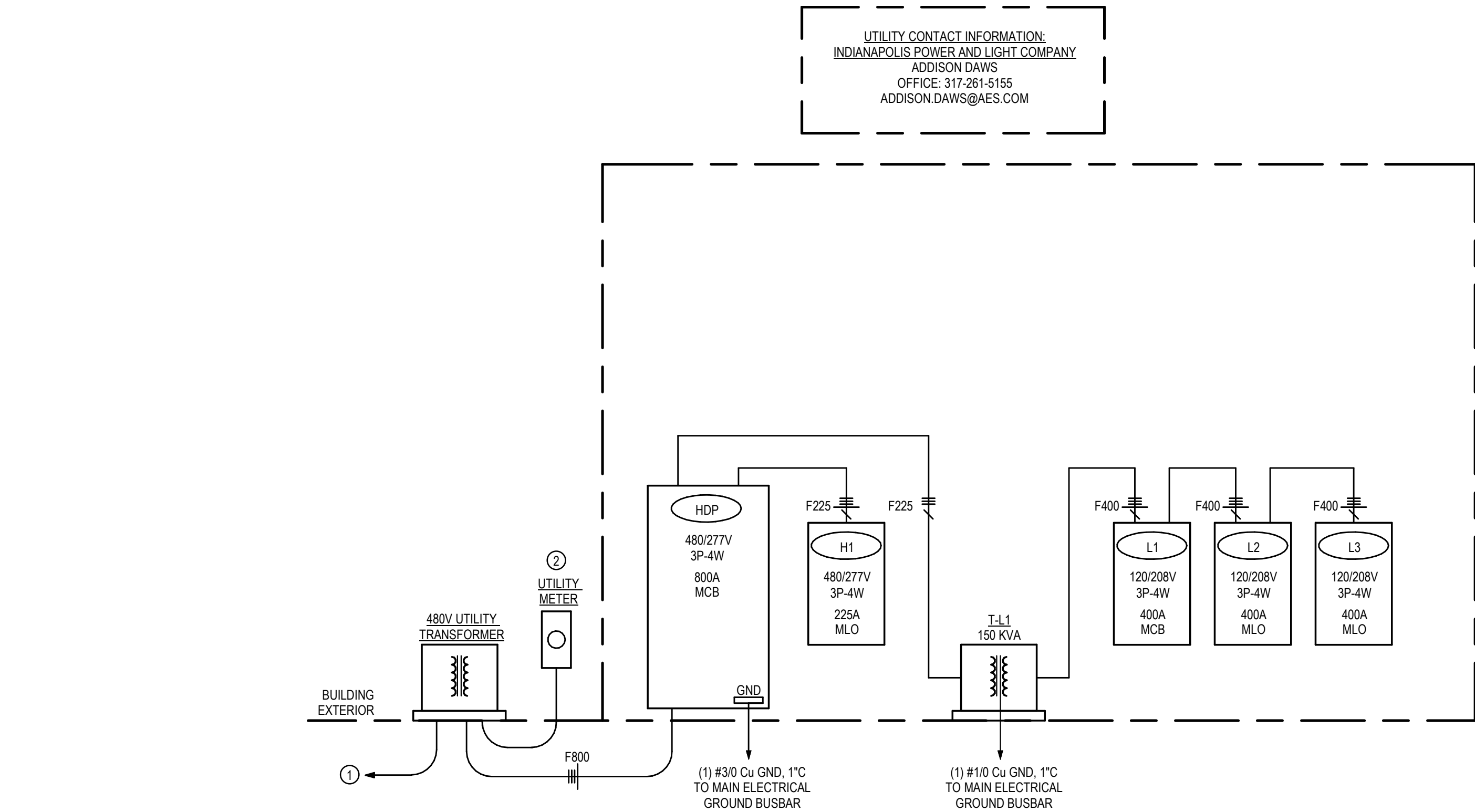
##### DRAWING NUMBER:

E601

TRUE  
NORTH







1 ELECTRICAL ONE-LINE RISER DIAGRAM  
NO SCALE

FEEDER AND BRANCH CIRCUIT SCHEDULE					
NOTE: SEE DRAWINGS FOR NUMBER OF WIRES IN HOMERUN					
FEEDER/BRANCH CIRCUIT DESIGNATION	CONDUCTOR SIZE		TYPE CABLE		CONDUIT
	PHASE & NEUTRAL	EQUIPMENT GROUND	ALUMINUM	COPPER	
F20	12	12		X	MC
F30	10	10		X	MC
F40-50	8	10		X	MC
F60	6	10		X	MC
F70-80	4	8		X	MC
F90	3	8		X	MC
F100	3	8		X	MC
F125	10	4	X		MC
F150	30	4	X		2-1/2"
F175	40	4	X		2-1/2"
F200	250	4	X		3"
F225	300	2	X		3"
F250	350	2	X		3"
F300	500	2	X		3-1/2"
F350	2 RUNS OF 400	1	X		2-1/2"
F400	2 RUNS OF 250	1	X		3" EACH
F600	2 RUNS OF 500	2/0	X		3-1/2" EACH
F800	3 RUNS OF 400	3/0	X		3-1/2" EACH
F1000	3 RUNS OF 600	4/0	X		4" EACH
F1200	4 RUNS OF 500	250	X		3-1/2" EACH
F1600	5 RUNS OF 600	350	X		4" EACH
F2000	6 RUNS OF 600	400	X		4" EACH
F2500	7 RUNS OF 750	600	X		5" EACH
F3000	8 RUNS OF 750	600	X		5" EACH

- NOTES:
- 20 A BRANCH CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP. WIRE SIZES ARE NOT INDICATED ON THE DRAWINGS TO COMPENSATE FOR VOLTAGE DROP. FOR THESE CIRCUITS, CONTRACTOR SHALL UTILIZE WIRE SIZE SHOWN ABOVE FOR DISTANCES LISTED ABOVE.
  - VOLTAGE DROP WIRE SIZES WILL BE STRICTLY ENFORCED. CONTRACTOR SHALL SUBMIT A LIST OF CIRCUITS THAT WILL EXCEED THE DISTANCES ALLOWED AND INDICATE WIRE SIZE TO BE USED PRIOR TO ANY WIRE BEING INSTALLED.
  - DO NOT SHARE NEUTRAL CONDUCTORS FOR ANY BRANCH CIRCUITS. ALL BRANCH CIRCUIT SHALL HAVE SEPARATE, INDEPENDENT NEUTRAL CONDUCTORS.
  - ALL BRANCH CIRCUIT WIRING SHALL BE MC CABLE WITH THE FOLLOWING EXCEPTIONS:
    - ALL WIRING THAT IS INSTALLED IN AREAS THAT DO NOT HAVE CEILINGS OR WHERE WIRING WOULD BE EXPOSED SHALL BE INSTALLED IN CONDUIT COMPLETE.
  - ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER.

#### PLAN NOTES

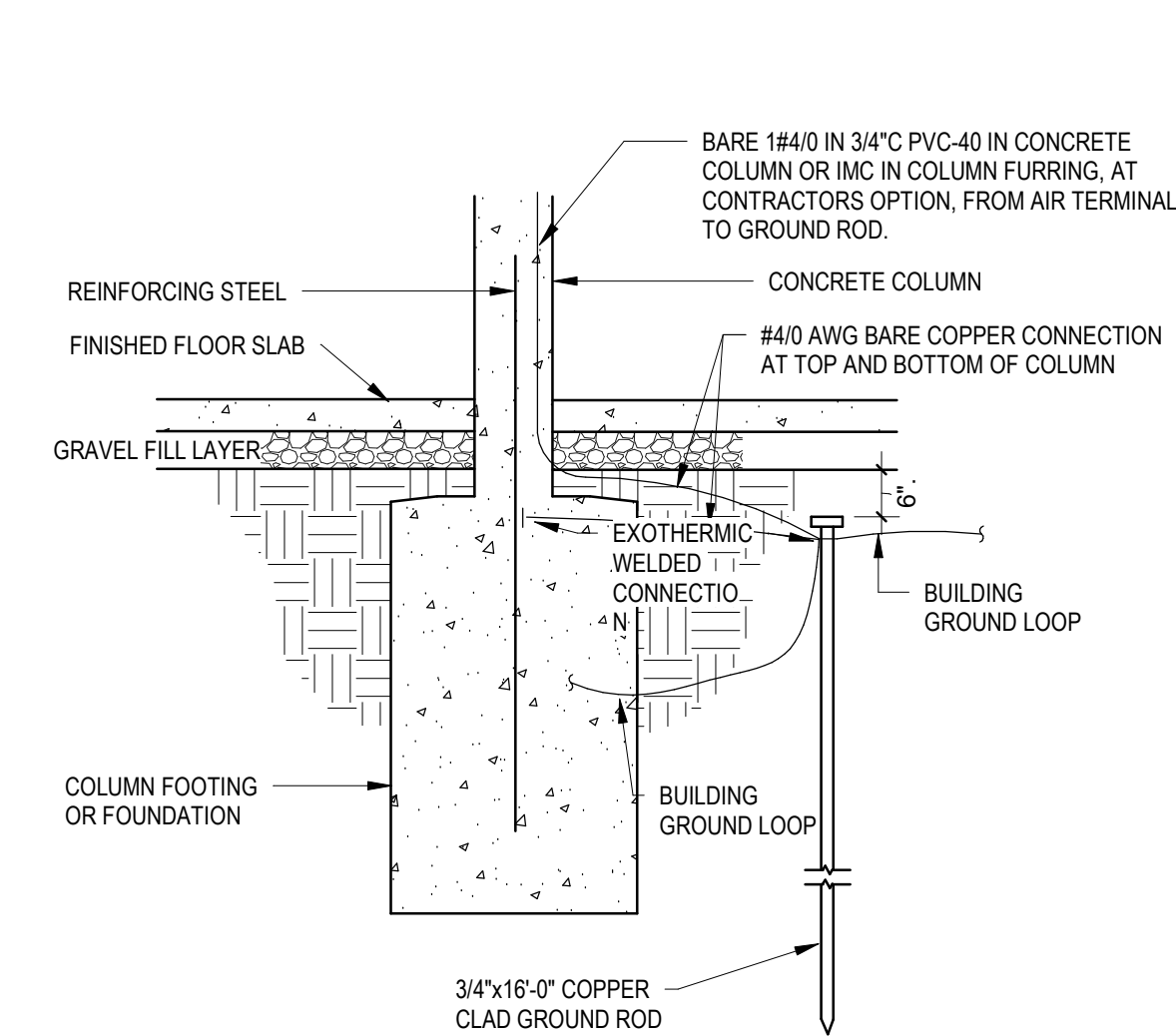
- CONDUITS BY OTHERS FOR ELECTRIC PRIMARY CONDUCTORS TO SERVE THE UTILITY TRANSFORMER.
- TRANSFORMER PRIMARY CONDUCTORS INSTALLED BY UTILITY.
- METER FURNISHED BY THE UTILITY AND INSTALLED BY CONTRACTOR. PROVIDE 2-1/2" CONDUIT FROM TRANSFORMER TO METER AS REQUIRED.
- BOND ALL METAL PIPING DESCRIBED IN NFPA 70-250.104, INCLUDING GAS PIPING.
- GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT WHERE INSTALLED ABOVE GRADE.
- CONNECT WATER SERVICE GROUNDING CONDUCTOR TO STREET SIDE OF WATER METER. PROVIDE BONDING JUMPER ACROSS WATER METER AND INSTALL WITH TAG.

#### VOLTAGE DROP FOR 20A BRANCH CIRCUITS

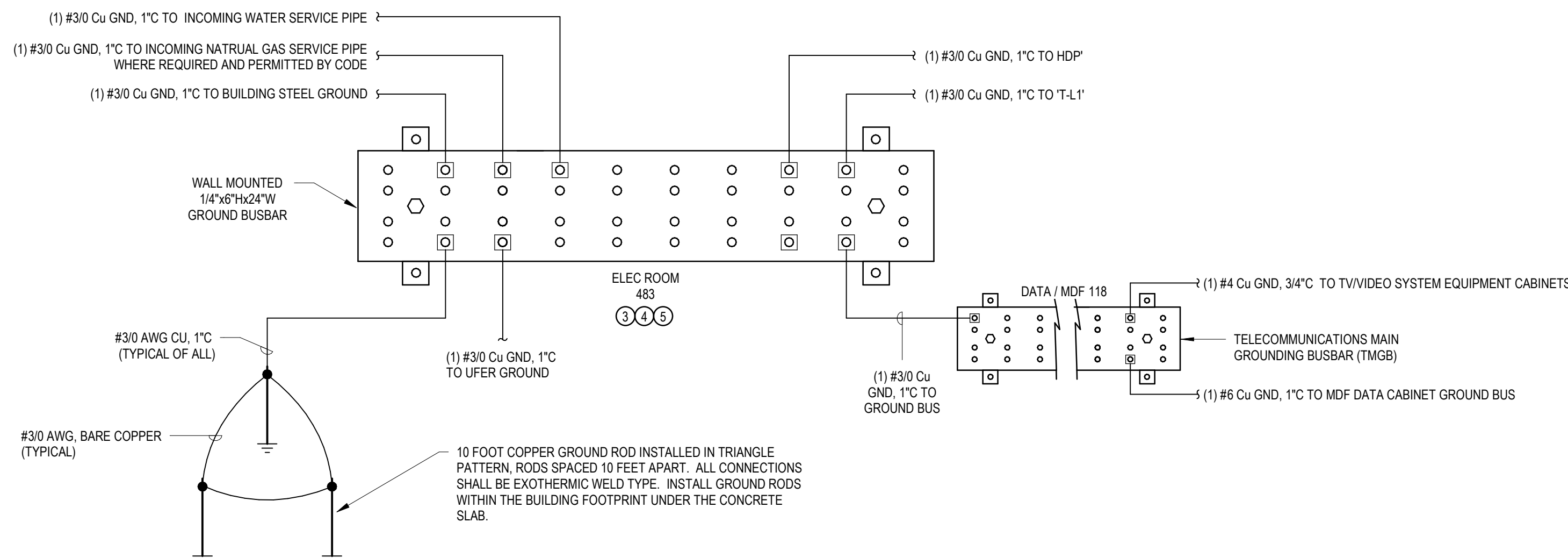
FEEDER SIZE TO USE	MAXIMUM DISTANCE ALLOWED	
	120V	277V
F20	100 FEET	200 FEET
F30	150 FEET	300 FEET
F40-50	240 FEET	550 FEET
F60	385 FEET	885 FEET

#### NOTES

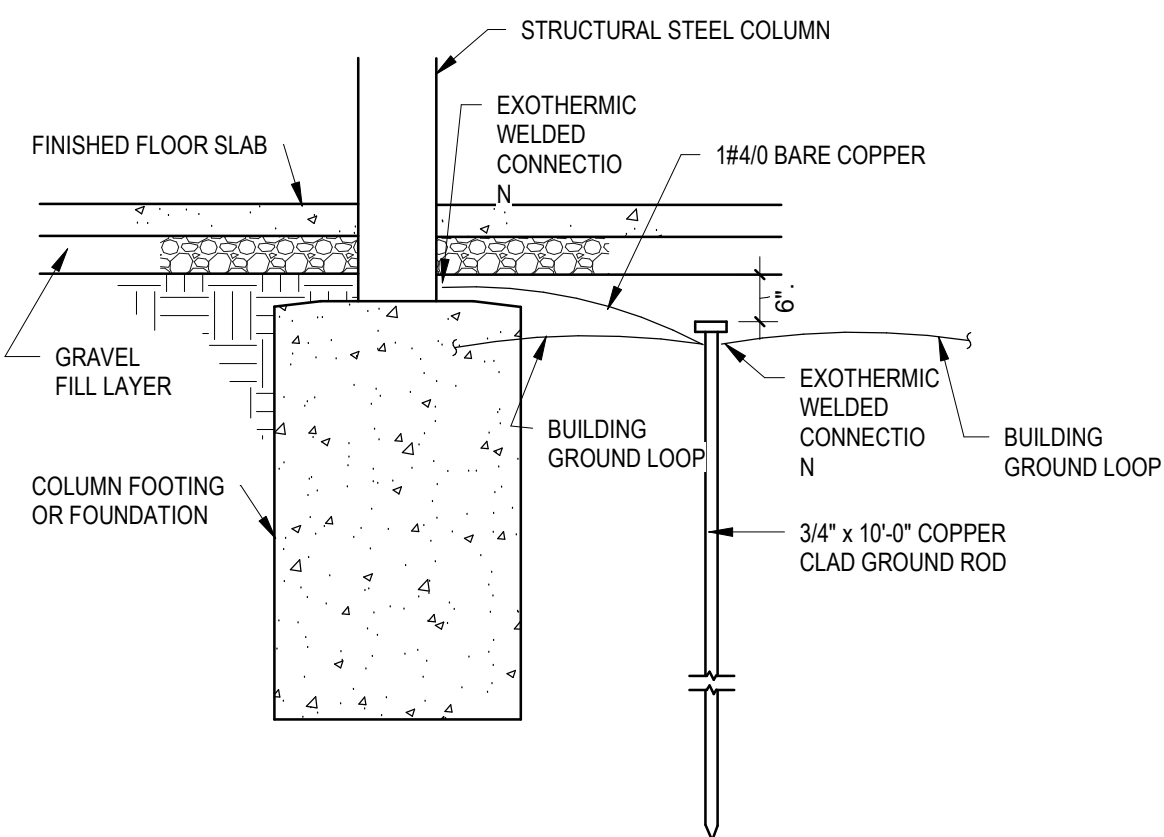
- CONDUCTORS FOR 20 AMP BRANCH CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP. WIRE SIZES ARE NOT INDICATED ON THE DRAWINGS TO COMPENSATE FOR VOLTAGE DROP FOR THESE CIRCUITS. CONTRACTOR SHALL UTILIZE WIRE SIZE SHOWN ABOVE FOR THE DISTANCES LISTED ABOVE.
- VOLTAGE DROP WIRE SIZES WILL BE STRICTLY ENFORCED. CONTRACTOR SHALL SUBMIT A LIST OF CIRCUITS THAT WILL EXCEED THE DISTANCES ALLOWED AND INDICATE WIRE SIZE TO BE USED PRIOR TO ANY WIRE BEING INSTALLED.
- PROVIDE SEPARATE, INDEPENDENT NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. DO NOT SHARE NEUTRALS BETWEEN CIRCUITS.



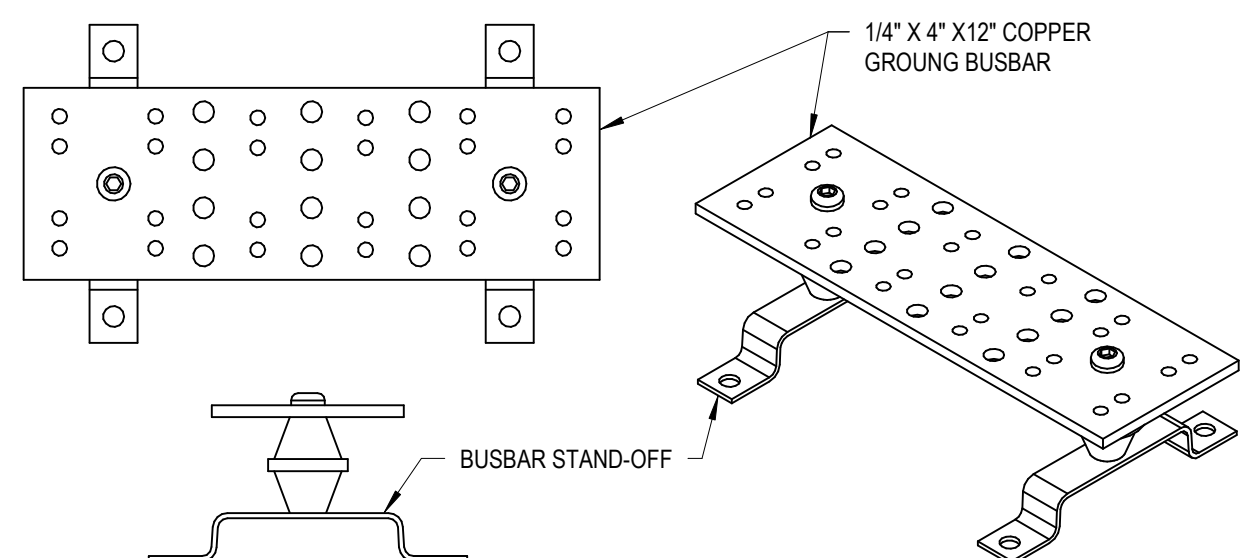
4 STRUCTURAL COLUMN (CONCRETE) GROUNDING DETAIL  
NO SCALE



6 MAIN ELECTRICAL GROUND BUSBAR DETAIL  
NO SCALE



5 STRUCTURAL COLUMN (STEEL) GROUNDING DETAIL  
NO SCALE



7 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) DETAIL  
NO SCALE

#### INFORMATION PLATE

<b>PANEL 1LN1</b>	LAMACOID PLATE
120/208V 3P 4W	EQUIPMENT SERVED
FED FROM MDP	VOLTAGE
	SOURCE OF POWER

NOTE: PROVIDE I.D. PLATE LABEL FOR ELECTRICAL EQUIPMENT SUCH AS MAIN SWITCHGEAR, SWITCHBOARD PANELBOARDS, AND TRANSFORMERS

8 ELECTRICAL EQUIPMENT I.D. LABELING DETAIL  
NO SCALE

<b>WARNING</b>	
<b>Arc Flash Hazard</b> Appropriate PPE Required	
Equipment Type	480V Switchgear
Grounding	Grounded
Work Distance	11 inches (300 mm)
Available 3-Ph Bolted Current	25 kA
Flash Protection Boundary	27 inches
Incident Energy at 11 inches	4.39 cal/cm <sup>2</sup>
Risk Category	2
Equipment Name:	Switchboard

NOTE: PROVIDE WARNING LABEL FOR ALL ELECTRICAL EQUIPMENT SUCH AS MAIN SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, AND TRANSFORMERS.

9 ELECTRICAL EQUIPMENT WARNING LABEL DETAIL  
NO SCALE

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#### PERMIT SET

△ REVISIONS:

DATE:  
**2.11.2022**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

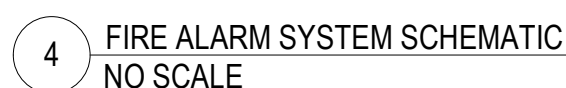
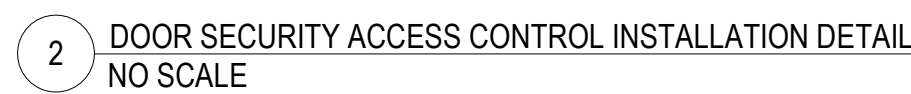
DRAWN BY:  
**JAW**  
DRAWING TITLE:

#### ELECTRICAL ONLINE RISER DIAGRAM

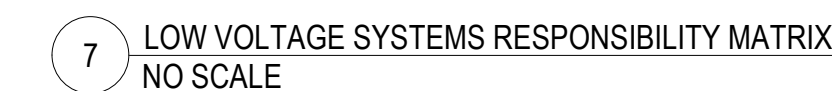
DRAWING NUMBER:

**E701**





SECURITY / ACCESS CONTROL / CAMERAS  
CONTACT INFORMATION:  
NELSON ALARM  
BOB LEWIS  
OFFICE: 317.777.0437  
RLEWIS@NELSONALARM.COM





Distribution Panel: HDP

Location: ELECTRICAL 124		Voltage: 480/277 Wye		Branch:								
Supplied From: 480V UTILITY TRANSFORMER		Phase: 3		A.I.C. Rating: TBD								
Mounting: Surface		Wire: 4		Main Type: MCB								
Enclosure Type: Type 1		Ground: Yes		Main Rating: 800A								
General Panel Comments:												
Breaker Information												
Circuit Number	Circuit Description	Thermal Mag		Electronic Trip				100% Rated Poles	Frame Size	Trip Rating	Load (kVA)	Remarks:
		Fixed	Adj. Inst.	L	S	I	G					
1	HI							3	400 A	225 A	101.2	
2	TL1							3	400 A	225 A	115.0	
3	RTU-1							3	100 A	100 A	60.6	
4	RTU-2							3	100 A	100 A	63.6	
5	SPARE	--	--	--	--	--	--	3	--	400 A	0.0	--
6	SPARE	--	--	--	--	--	--	3	--	200 A	0.0	--
7	SPARE	--	--	--	--	--	--	3	--	200 A	0.0	--
8	PROVISION	--	--	--	--	--	--	--	--	0.0	--	--
9	PROVISION	--	--	--	--	--	--	--	--	0.0	--	--
10	PROVISION	--	--	--	--	--	--	--	--	0.0	--	--
11	PROVISION	--	--	--	--	--	--	--	--	0.0	--	--
12	PROVISION	--	--	--	--	--	--	--	--	0.0	--	--
Total Connected Load (kVA):											340.3	
Total Connected Load (Amps):											409.3	
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals							
HVAC		23760 VA	100.00%	23760 VA	Total Conn. Load: 340252 VA							
Lighting		17350 VA	100.00%	17350 VA	Total Est. Demand: 302589 VA							
Receptacle		85330 VA	55.86%	47665 VA	Total Conn. Current: 409 A							
					Total Est. Demand Current: 364 A							
Remarks:												

Branch Panel: H1

Location: ELECTRICAL 124				Voltage: 480/277 Wye				Branch:			
Supplied From: HDP				Phase: 3				A.I.C. Rating: TBD			
Mounting: Surface				Wire: 4				Main Type: MLO			
Enclosure Type: Type 1				Ground: Yes				Main Rating: 225A			
General Panel Comments:											
Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number	
1	UNION HALL LIGHTING	20 A	1	1.2	6					2	
3	UNION HALL LIGHTING	20 A	1		1.8	6				4	
5	UNION HALL LIGHTING	20 A	1			1.8	6			6	
7	OFFICE CORRIDOR LIGHTING	20 A	1	1.8	8					8	
9	OFFICE LIGHTING	20 A	1		3.5	8		3	50 A	10	
11	OFFICE LIGHTING	20 A	1			3.1	8			12	
13	POLE MOUNTED SITE LIGHTING	20 A	1	4.4	7.2					14	
15	SPARE	20 A	1		0	7.2		3	50 A	16	
17	SPARE	20 A	1			0	7.2			18	
19	SPARE	20 A	1	0	6.8					20	
21	SPARE	20 A	1		0	6.8		3	50 A	22	
23	SPARE	20 A	1			0	6.8			24	
25	SPARE	20 A	1	0	0					26	
27	SPARE	20 A	1		0	0		3	50 A	28	
29	SPARE	20 A	1			0	0			30	
31	PROVISION	--	--	0	0			--	--	32	
33	PROVISION	--	--		0	0		--	--	34	
35	PROVISION	--	--			0	0	--	--	36	
37	PROVISION	--	--	0	0			--	--	38	
39	PROVISION	--	--		0	0		--	--	40	
41	PROVISION	--	--			0	0	--	--	42	
Total Load:				35.3 kVA	33.2 kVA	32.7 kVA					
Load Summary:											
Load Classification		Connected Load	Demand Factor	Estimated Demand		Panel Totals					
HVAC		84000 VA	100.00%	84000 VA		Total Conn. Load: 101151 VA					
Lighting		17350 VA	100.00%	17350 VA		Total Est. Demand: 101151 VA					
						Total Conn. Current: 122 A					
						Total Est. Demand Current: 122 A					
Remarks:											

LIGHT FIXTURE SCHEDULE - SITE LIGHTING							
FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMENS	ACCEPTABLE MANUFACTURERS
S1	POLE MOUNTED SITE LIGHT	SITE AREA FIXTURE, SINGLE HEAD WITH TYPE IV WIDE DISTRIBUTION. 24' POLE. ARCHITECT TO DETERMINE FINISH AND ALL ACCESSORIES.	277 V	151 W	LED 4000K	20000	LUMARK - PRV-PA2B-740-U-T4W-HSS
S2	WALL MOUNTED SITE LIGHT	SITE AREA FIXTURE, SINGLE HEAD WITH TYPE IV WIDE DISTRIBUTION.	277 V	151 W	LED 4000K	20000	LUMARK - PRV-PA2B-740-U-T4W-HSS
S3	POLE MOUNTED SITE LIGHT	SITE AREA FIXTURE, SINGLE HEAD WITH TYPE IV WIDE DISTRIBUTION. 17' POLE. ARCHITECT TO DETERMINE FINISH AND ALL ACCESSORIES.	277 V	112 W	LED 4000K	17000	LUMARK - PRV-PA2A-740-U-T4W
S4	GROUND MOUNTED FLOOD LIGHT	WET LOCATION, ADJUSTABLE AIM, FLOOD LIGHT, ARCHITECT TO DETERMINE FINISH AND ALL ACCESSORIES.	277 V	58 W	LED 4000K	5800	LUMARK - NFFLD-S-C15-D-UNV-33-S-XX

LIGHT FIXTURE SCHEDULE							
FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMENS	ACCEPTABLE MANUFACTURERS
L1	ARCHITECTURAL TROFFER	RECESSED 2 x 4 FLAT PANEL, 0-10 V DIMMABLE, FIVE YEAR WARRANTY, IC RATED	277 V	55 W	LED 3500K	6100	METALUX - 24FP
L1-EM	ARCHITECTURAL TROFFER	RECESSED 2 x 4 FLAT PANEL, 0-10 V DIMMABLE, FIVE YEAR WARRANTY, IC RATED. PROVIDE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY.	277 V	55 W	LED 3500K	6100	METALUX - 24FP
L2	ARCHITECTURAL TROFFER	RECESSED 2 x 2 FLAT PANEL, 0-10 V DIMMABLE, FIVE YEAR WARRANTY, IC RATED	277 V	38 W	LED 3500K	4200	METALUX - 22FP
L2-EM	ARCHITECTURAL TROFFER	RECESSED 2 x 2 FLAT PANEL, 0-10 V DIMMABLE, FIVE YEAR WARRANTY, IC RATED. PROVIDE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY.	277 V	38 W	LED 3500K	4200	METALUX - 22FP
L3-EM	DOWNLIGHT	6" APERTURE, HIGH OPEN DOWNLIGHT, 0-10V DIMMABLE, SEMI SPECULAR CLEAR ALUMINUM REFLECTOR, SELF TRIM WITH WHITE FLANGE, 0-10V DIMMING DRIVER (1%-100%).	277 V	21 W	LED 3500K	2000	HALO - HC4
L4	LENSED STRIP	2-3/8"W X 3-1/16"H X .48", BAKED ENAMEL WHITE HOUSING FORMED FROM CODE GAUGE STEEL, 100% ACRYLIC FORMED DIFFUSER, DAMP LOCATION LISTED, MADE IN USA.	277 V	40 W	LED 3500K	5000	METALUX - SNLED
L5	HALL CYLINDER PENDANT	170 X .20" ALUMINUM CYLINDER PENDANT, POWDER COAT FINISH, CLEAR ANTI-GLARE LENS, 60 DEGREE OPTIC, 0-10V DIMMING DRIVER (1%-100%), ARCHITECT TO DETERMINE FINISH.	277 V	89 W	LED 3500K	10500	SOLID STATE LUMINAIRES - SSC10
L6	BATHROOM VANITY FIXTURE	2-1/2" DIA. X 3-1/2" X 2-1/2" ANODIZED EXTRUDED ALUMINUM GRAY HOUSING, ACRYLIC FORMED 1/2" DEEP LENS, DAMP LOCATION LISTED, ARCHITECT TO DETERMINE FINISH OPTIONS.	277 V	11 W	LED 3500K	2000	FOCAL POINT - FSU12W
L7	NOT USED	NOT USED.	277 V	0 W	LED 3500K	0	NOT USED
L8	EMERGENCY EXIT SIGN	WEATHER-PROOF REMOTE HEAD, ARCHITECT TO DETERMINE FINISH.	277 V	3 W	LED		SURE-LITES - SRP
LRH	REMOTE HEAD	LED ELECTRONIC EXIT LIGHT, SINGLE OR DOUBLE FACE AS INDICATED ON DRAWING DOCUMENTS, ARCHITECTURAL ACRYLIC EDGE-LIT WITH UNIVERSAL SURFACE MOUNTING CANOPY, END, BACK OR TOP, DIRECTIONAL ARROW, RED LETTERS "EXIT", NICKEL, CADMIUM BATTERY. PROVIDE WITH SELF DIAGNOSTICS.	277 V	3 W	LED		SURE-LITES - ES
LX	EXIT SIGN	LED ELECTRONIC EXIT LIGHT, SINGLE OR DOUBLE FACE AS INDICATED ON DRAWING DOCUMENTS, ARCHITECTURAL ACRYLIC EDGE-LIT WITH UNIVERSAL SURFACE MOUNTING CANOPY, END, BACK OR TOP, DIRECTIONAL ARROW, RED LETTERS "EXIT", NICKEL, CADMIUM BATTERY. PROVIDE WITH SELF DIAGNOSTICS.	277 V	3 W	LED		SURE-LITES - ES

TRANSFORMER SCHEDULE										
DESIGNATION	LOCATION	SIZE	PHASE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PRIMARY CONNECTION	SECONDARY CONNECTION	MOUNTING	TYPE	COMMENTS
T-1	ELECTRICAL 124	150 KVA	3	480 V	208/120 V	DELTA	WYE	PAD	DRY	COMPLY WITH ENERGY CODE





David Shuck  
Professional Engineer

LiUNA Local 120  
**CORPORATE CAMPUS**  
5430 LAFAYETTE RD.  
INDIANAPOLIS, IN

PERMIT SET

△ REVISIONS:  
1 02.11.2022 ADDENDUM 3

DATE:  
**2.11.2022**  
arcDESIGN PROJECT NUMBER:  
**21102**  
CLIENT PROJECT NUMBER:

DRAWN BY:  
**JAW**  
DRAWING TITLE:

**ELECTRICAL  
SCHEDULES**

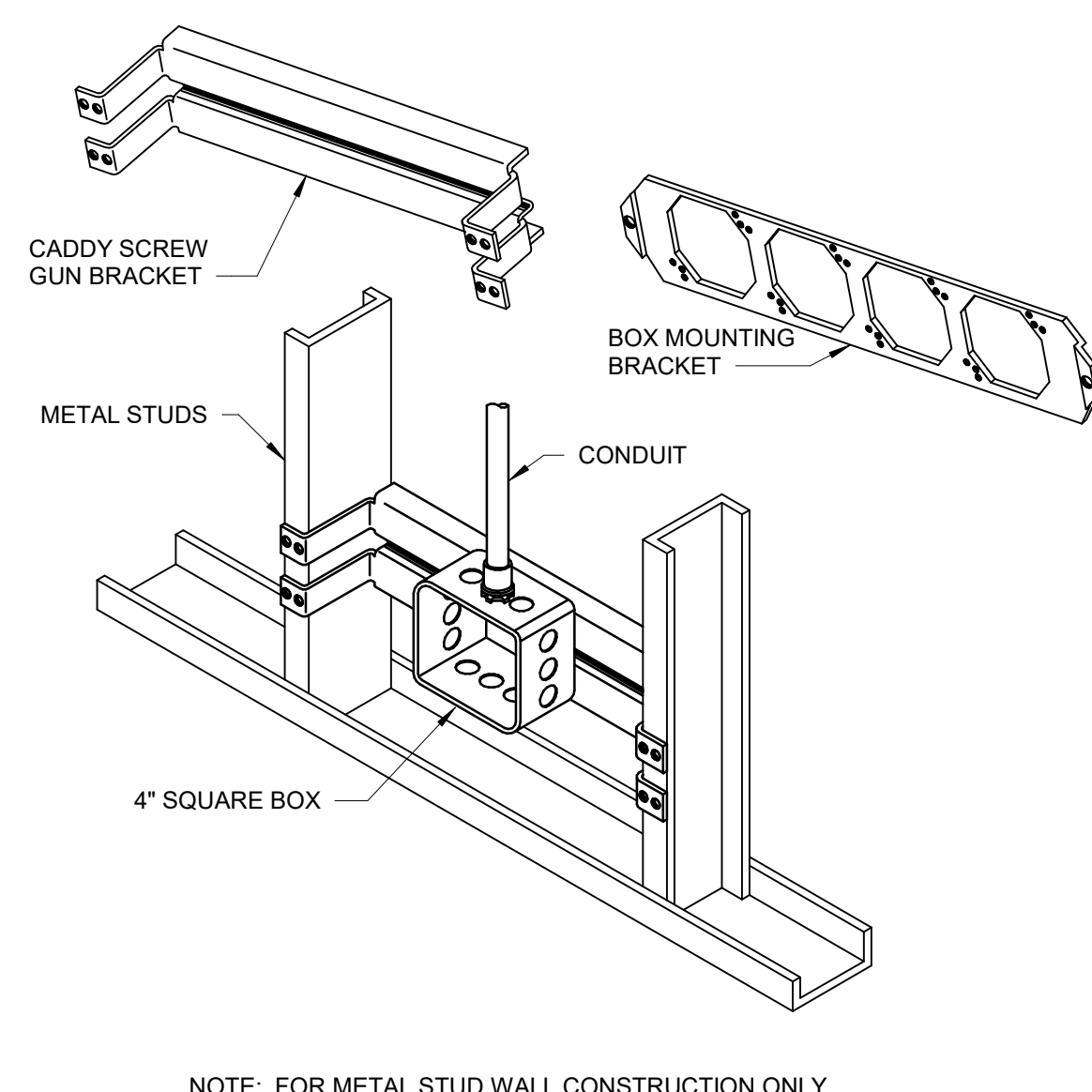
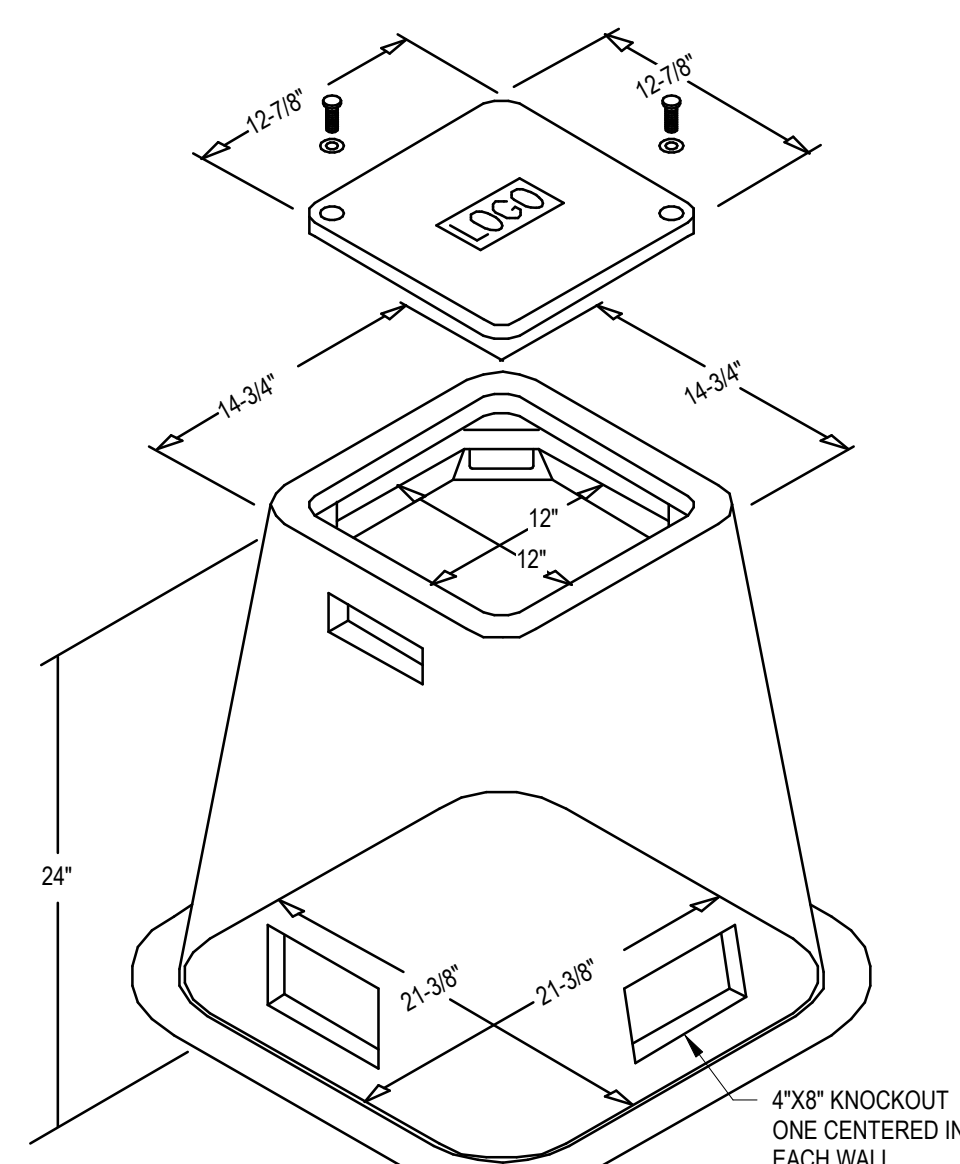
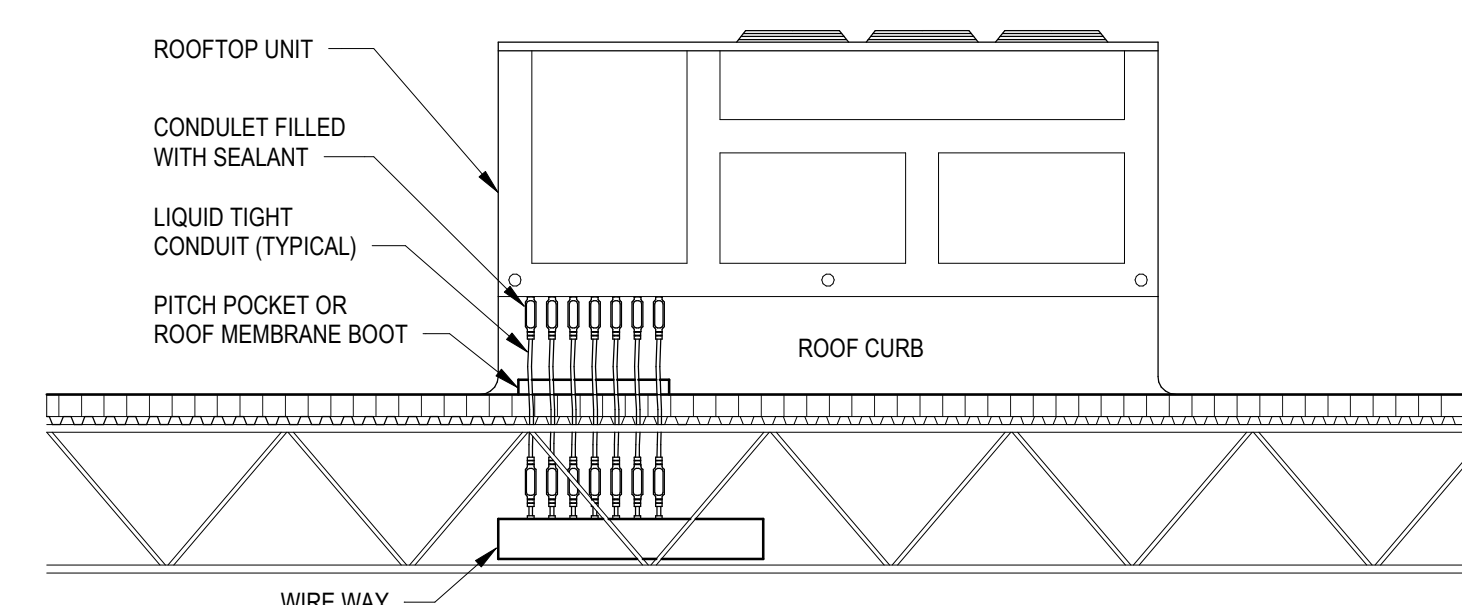
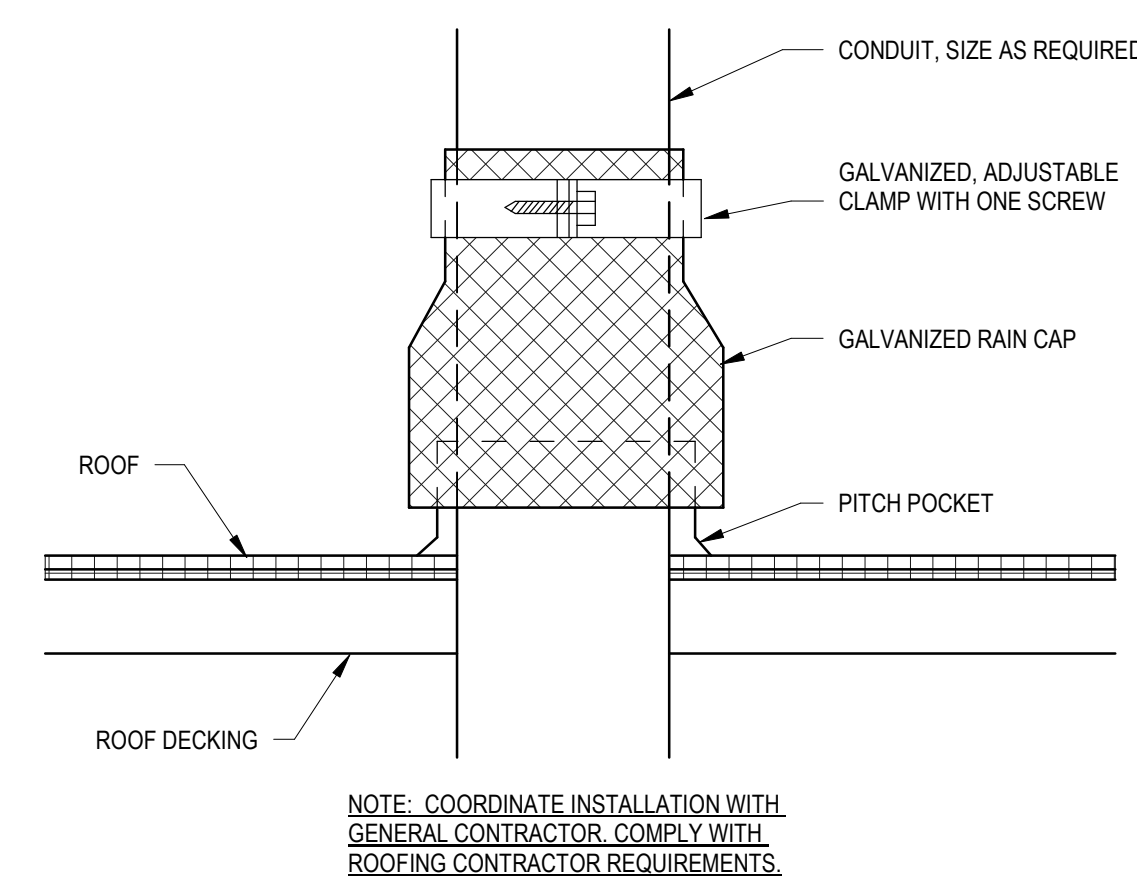
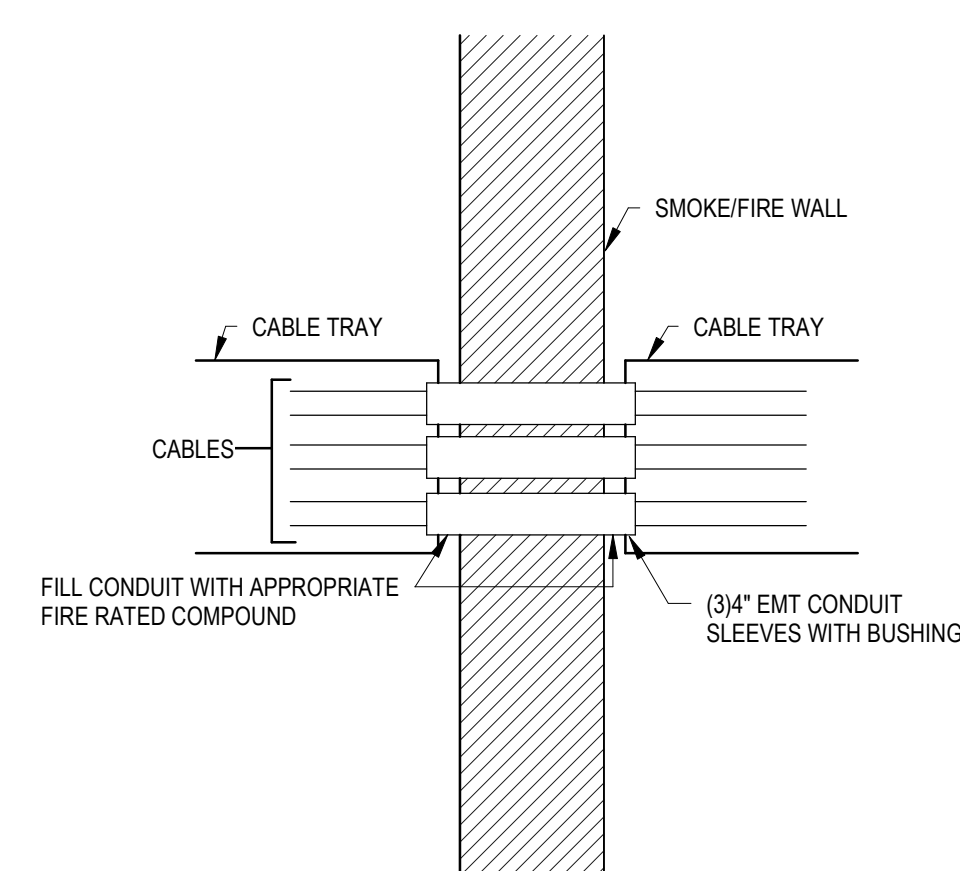
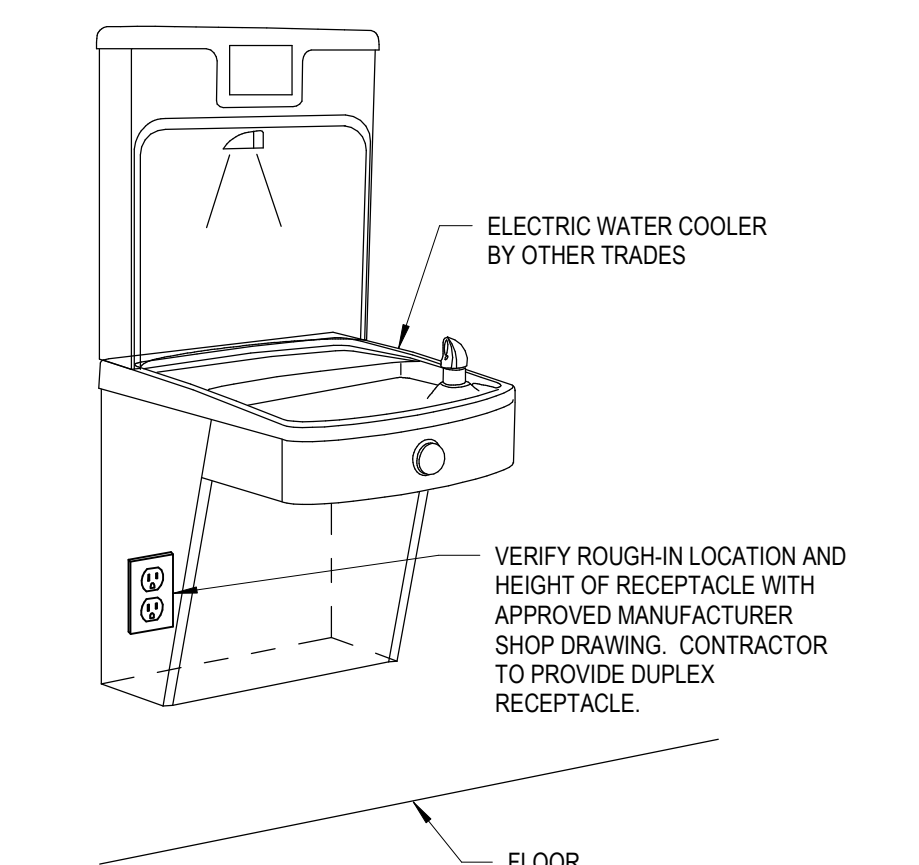
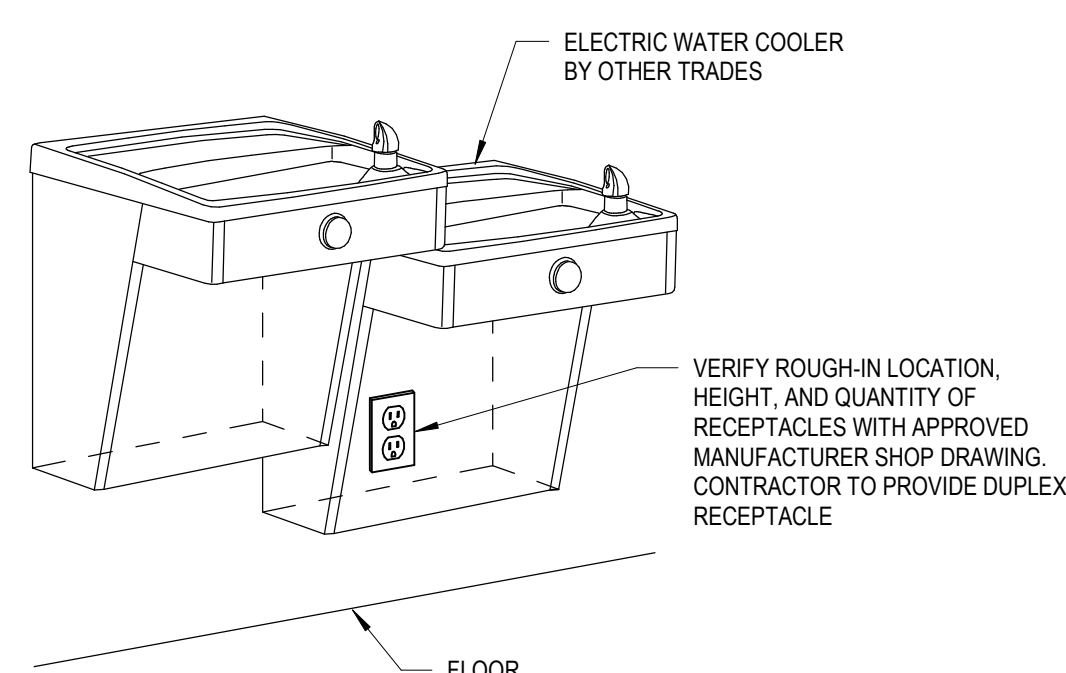
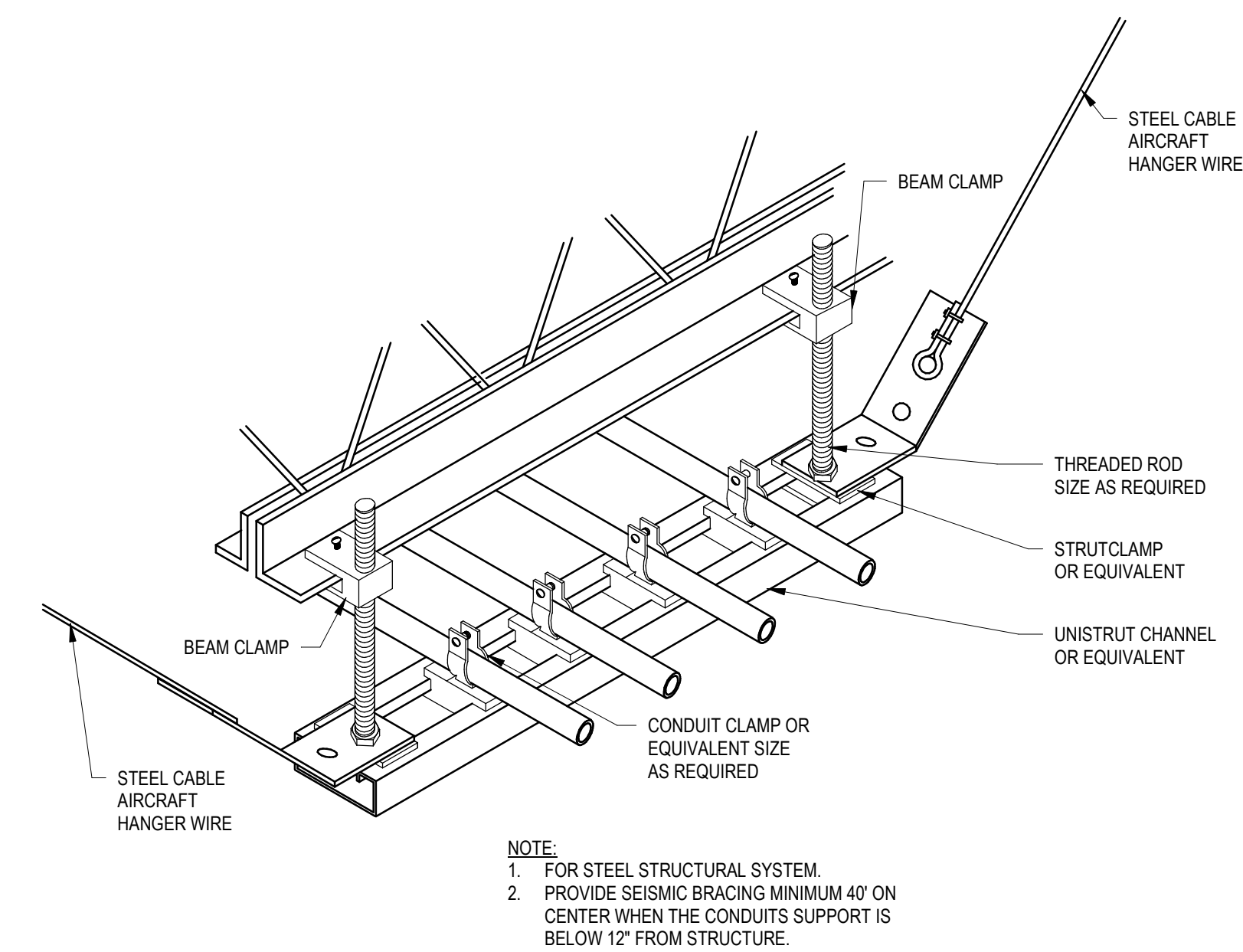
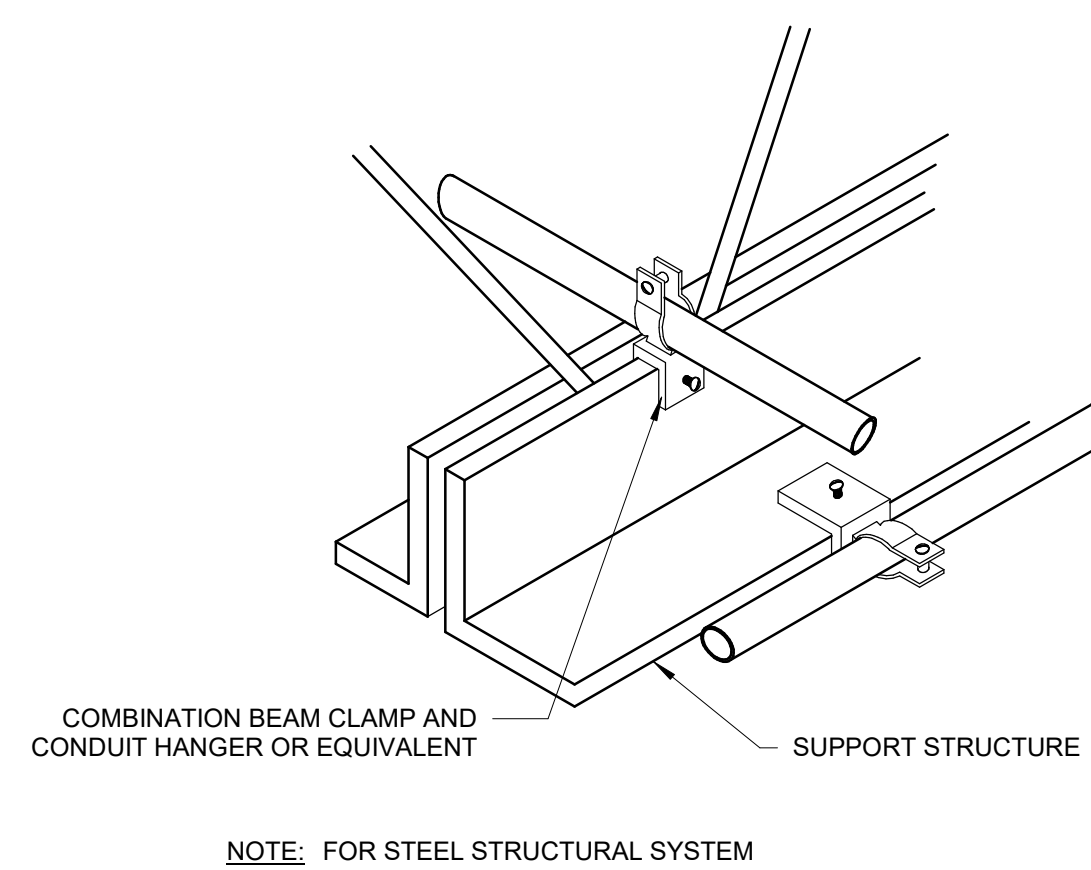
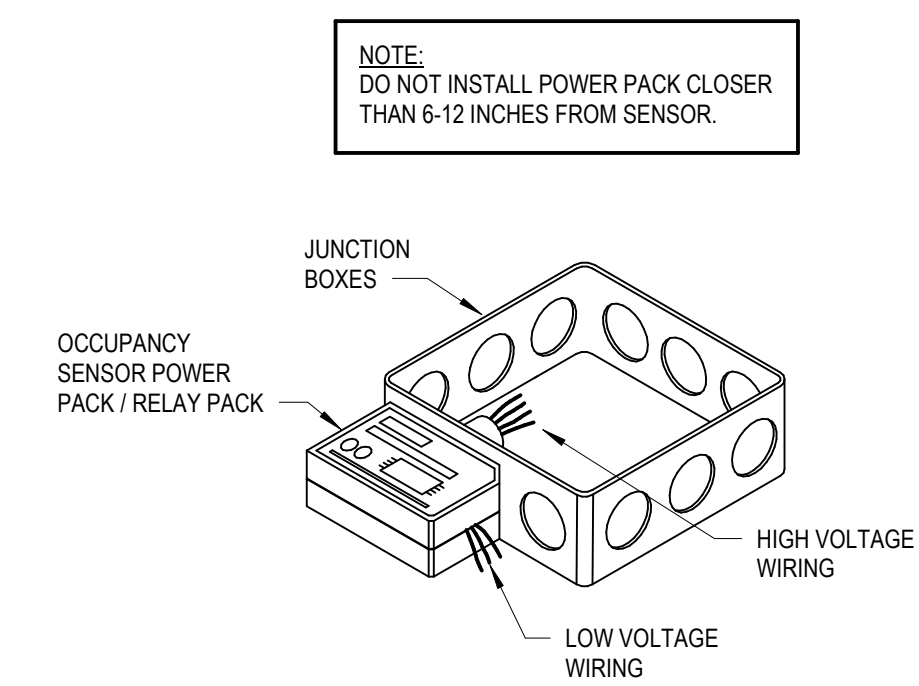
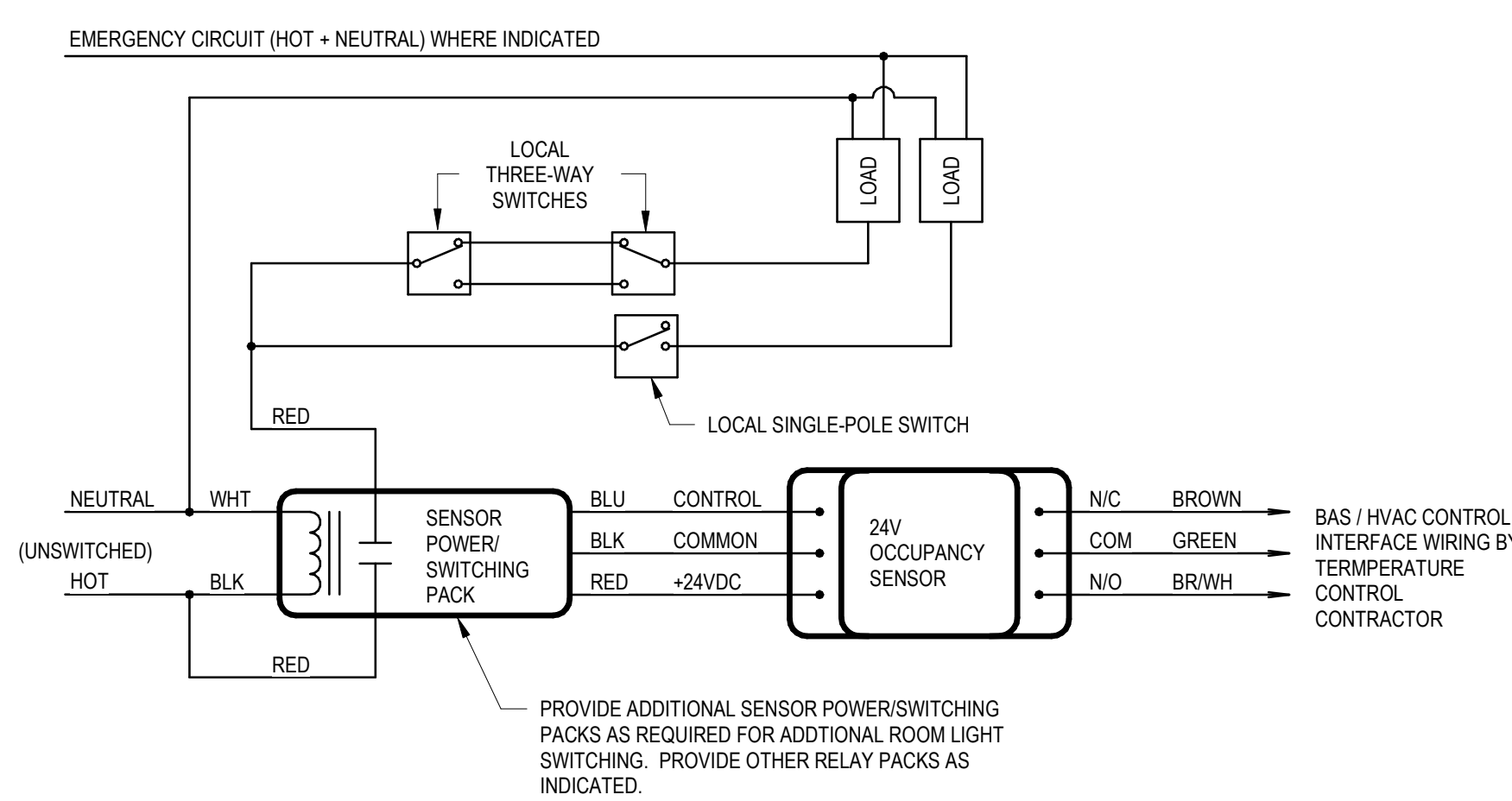
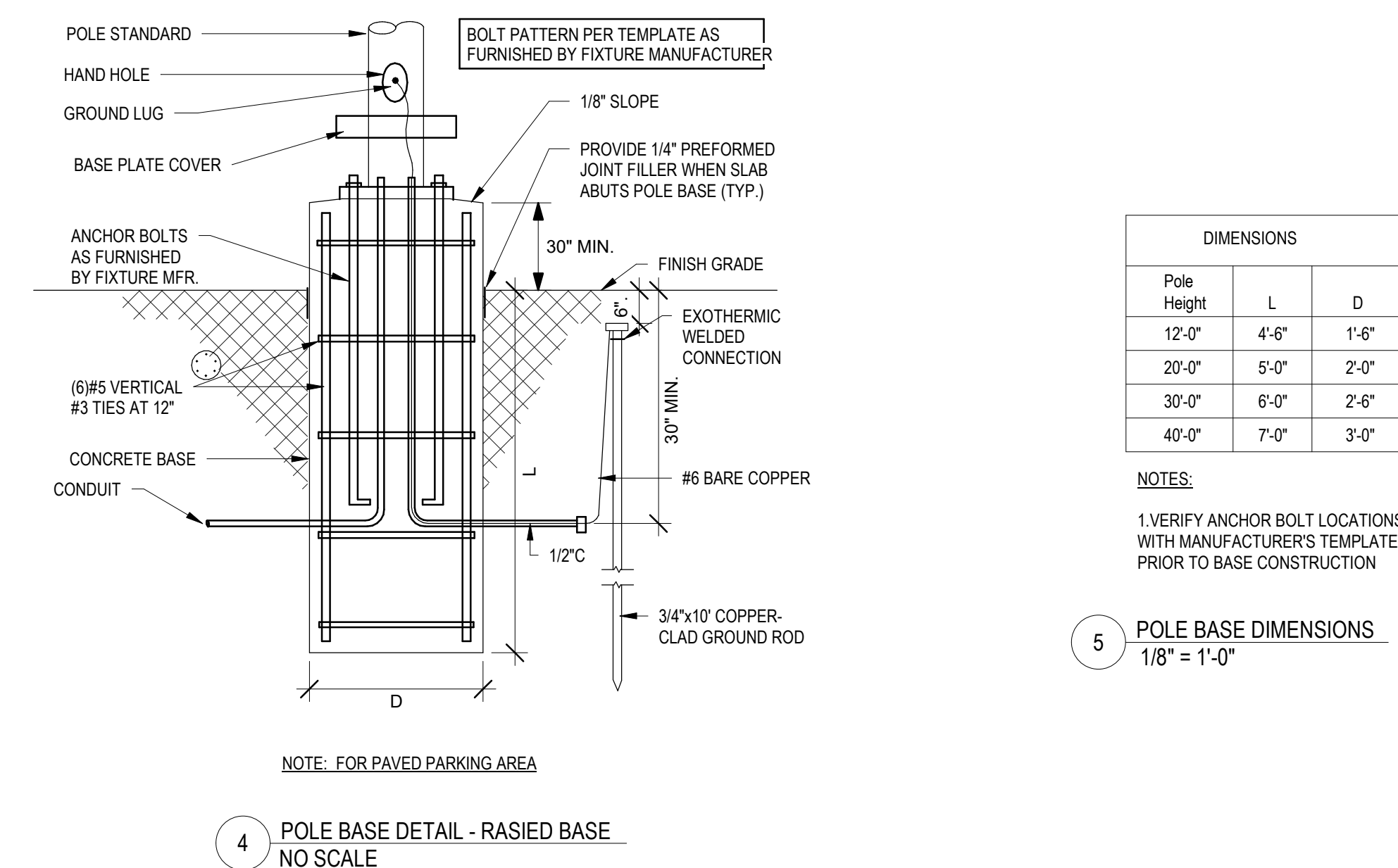
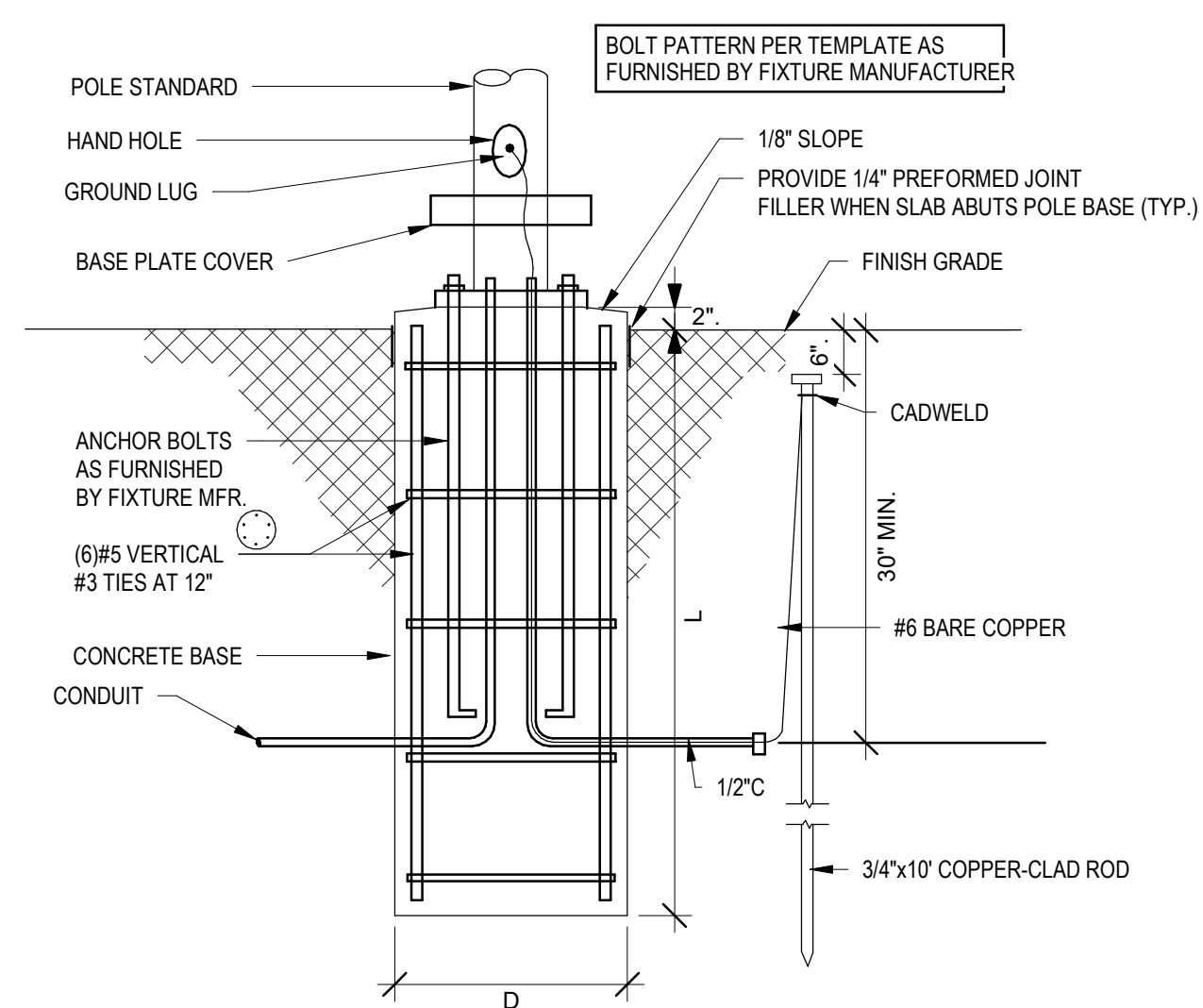
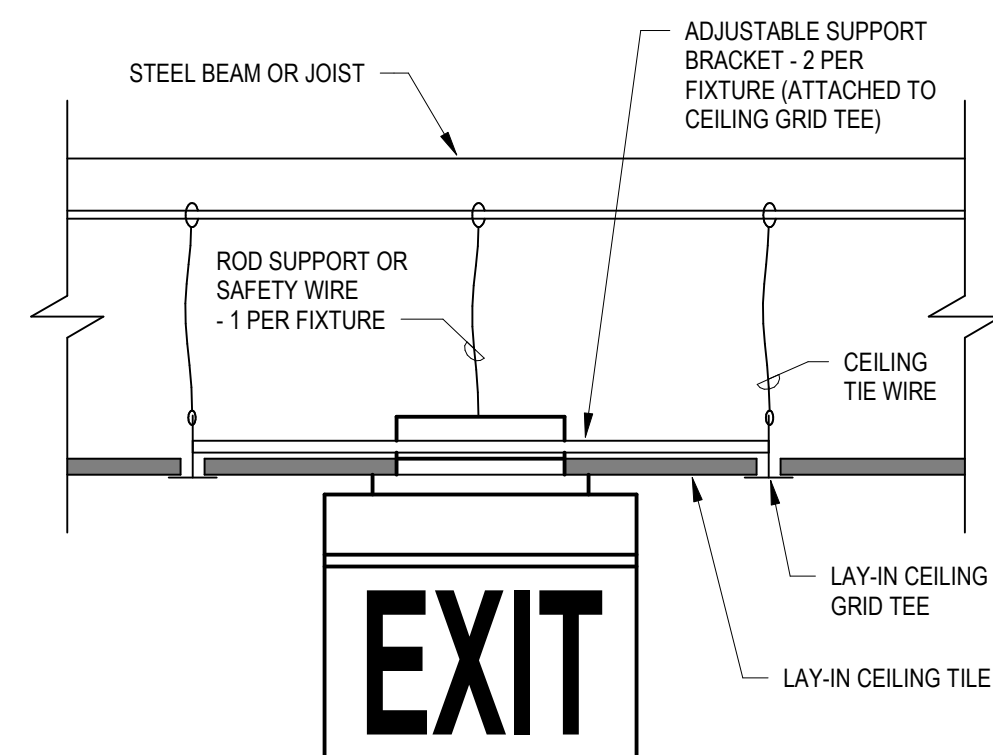
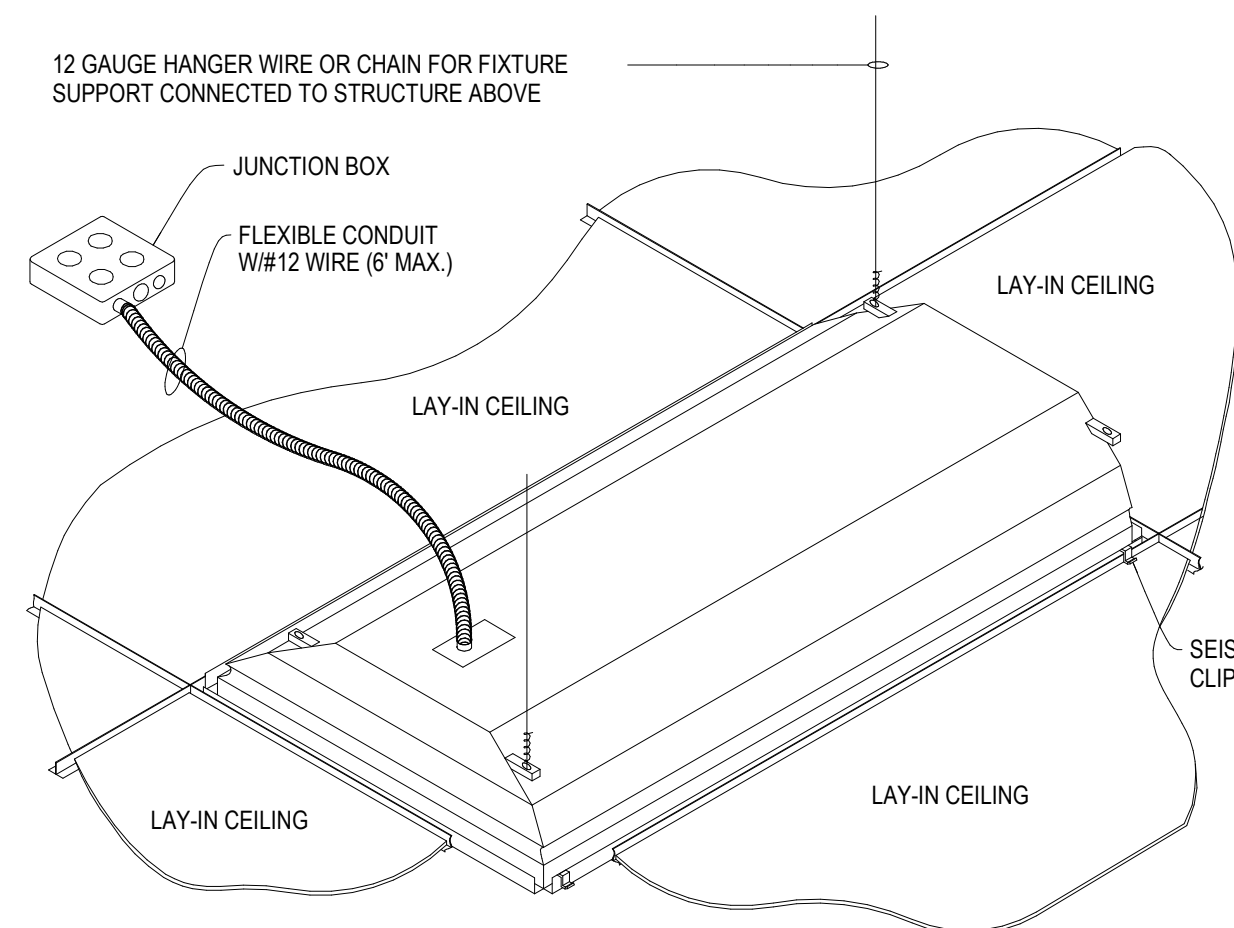
DRAWING NUMBER:  
**E802**

Branch Panel: L1												
Location: ELECTRICAL 124				Voltage: 120/208 Wye			Branch: NORMAL					
Supplied From: T-1				Phase: 3			A.L.C. Rating: TBO					
Mounting: SURFACE				Wires: 4			Main Type: MCB					
Enclosure Type: TYPE 1				Ground: YES			Main Rating: 400A					
General Panel Comments: PROVIDE WITH INTEGRAL TVSS PROVIDE WITH FEED THRU LUGS												
Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number		
1	FIRE ALARM CONTROL PANEL	20 A	1	1 0.2						2		
3	DOOR ACCESS CONTROL PANEL	20 A	1		0.5 0.2					4		
5	SECURITY CONTROL PANEL	20 A	1			0.5 0.2				6		
7	EMERGENCY CONTROL PANEL	20 A	1	0.5 2.5						8		
9	SPARE	20 A	1		0 2.5					10		
11	SPARE	20 A	1			1 2.5				12		
13	WATER SOFTNER WS-1-2	20 A	1	0.2 2.5						14		
15	WATER HEATERS DWH-1-2	20 A	1		0.6 2.5					16		
17	MECHANICAL ROOM RECEPTACLES	20 A	1			0.7 2.5				18		
19	EXHAUST FAN 'EF-1'	20 A	1	0.5 1.5						20		
21	EXHAUST FAN 'EF-2'	20 A	1		0.5 1.5					22		
23	ROOF TOP UNIT RECEPTACLES	20 A	1			0.4 1.5				24		
25	IT ROOM RECEPTACLES	20 A	1	0.4 1.5						26		
27	IT ROOM RECEPTACLES	20 A	1		0.4 0.6					28		
29	EXTERIOR RECEPTACLES	20 A	1			0.5 0.9	1	20 A	FINNED TUBE 'FTR-A'	30		
31	EXTERIOR RECEPTACLES	20 A	1	0.5 0.9				1	20 A	FINNED TUBE 'FTR-A'	32	
33	EXTERIOR RECEPTACLES	20 A	1		0.4 0.9			1	20 A	FINNED TUBE 'FTR-A'	34	
35	ELECTRIC WATER COOLER (GFCI)	20 A	1			0.2 0.9	1	20 A	FINNED TUBE 'FTR-A'	36		
37	DATA RACK	30 A	2	1.3 0.9				1	20 A	FINNED TUBE 'FTR-A'	38	
39	DATA RACK	30 A	2		1.3 0.5			1	20 A	FINNED TUBE 'FTR-C'	40	
41	DATA RACK	20 A	1			1.6 0.9	1	20 A	FINNED TUBE 'FTR-A'	42		
43	DATA RACK	20 A	1	1.6 0.5				1	20 A	FINNED TUBE 'FTR-C'	44	
45	DATA RACK	20 A	2		1 0			2	30 A	SPARE	46	
47	DATA RACK	20 A	2				1 0				48	
49	SPARE	20 A	1	0 0							50	
51	SPARE	20 A	1		0 0				2	20 A	SPARE	52
53	SPARE	20 A	1			0 0	0 1	20 A	SPARE		54	
55	SPARE	20 A	1	0 0				1	20 A	SPARE	56	
57	SPARE	20 A	1		0 0			1	20 A	SPARE	58	
59	SPARE	20 A	1			0 0	0 1	20 A	SPARE		60	
Total Load:				40.2 KVA	35.1 KVA	39.7 KVA						
Load Summary:												
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals							
H/VAC		29650 VA	100.00%	29650 VA	Total Conn. Load: 114980 VA							
Receptacle		85330 VA	55.86%	47665 VA	Total Est. Demand: 77315 VA							
					Total Conn. Current: 319 A							
					Total Est. Demand Current: 215 A							
Remarks:												

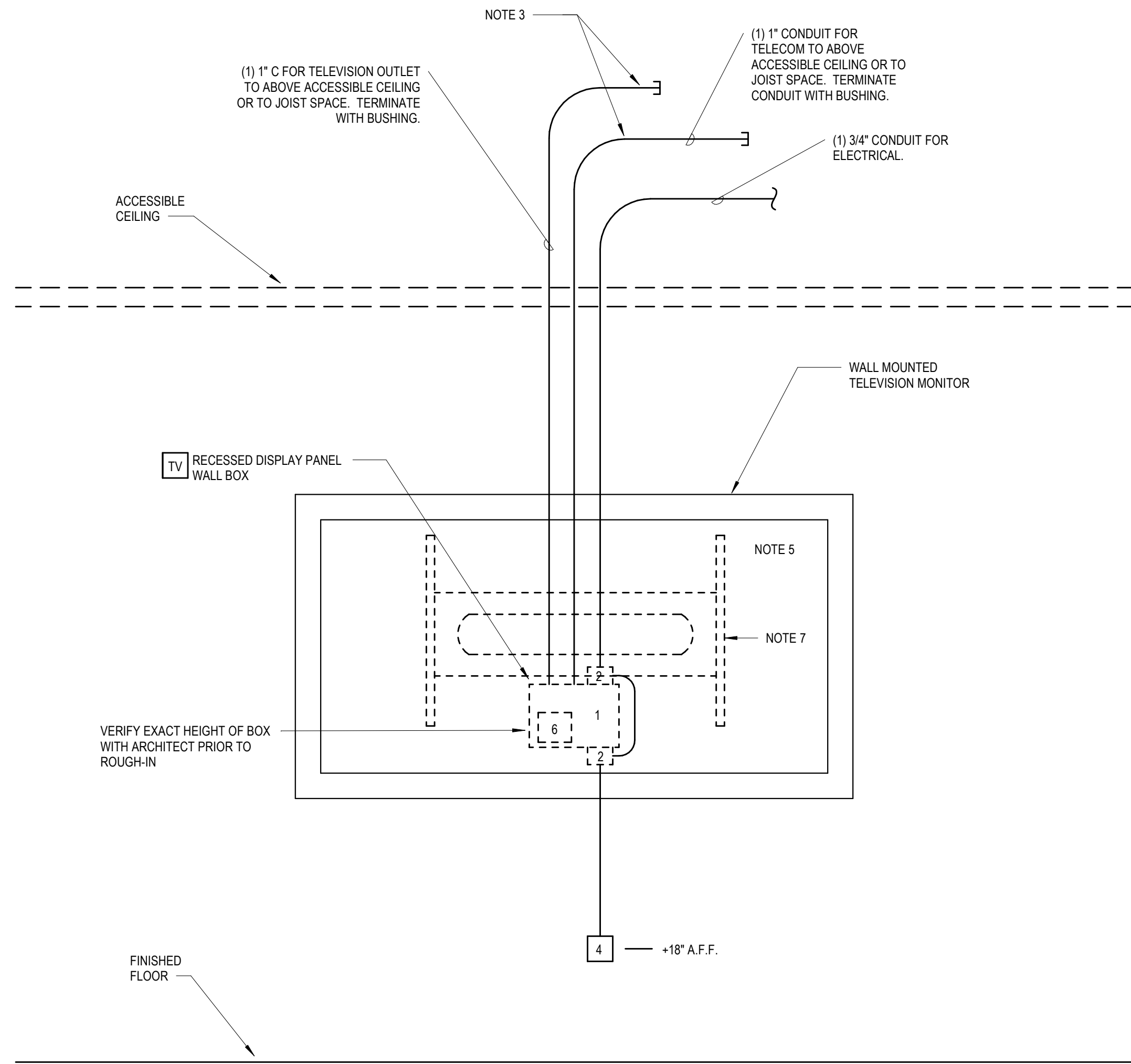
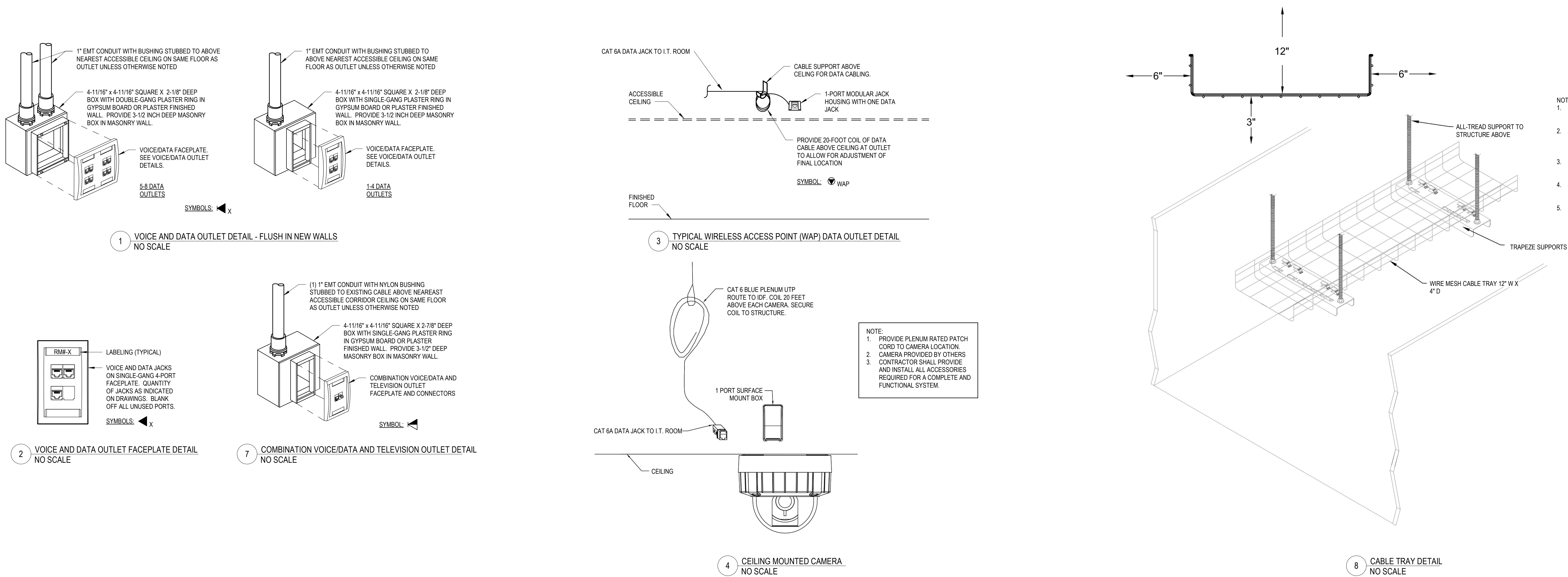
Branch Panel: L2											
Location: ELECTRICAL 124					Voltage: 120/208 Wye			Branch: NORMAL			
Supplied From: L1					Phase: 3			A.L.C. Rating: TBD			
Mounting: SURFACE					Wire: 4			Main Type: MLO			
Enclosure Type: TYPE 1					Ground: YES			Main Rating: 400A			
General Panel Comments: PROVIDE WITH FEED THRU LUGS											
Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number	
1	STAFF BREAK RECEPTACLES	20 A	1	0.7	1.1			1	OFFICE RECEPTACLES	2	
3	STAFF BREAK MICROWAVE				1.2	1.1		1	OFFICE RECEPTACLES	4	
5	STAFF BREAK OVEN	50 A	2				5	0.7	1	OFFICE RESTROOM RECEPTACLES	6
9	STAFF BREAK COUNTER RECEPTACLES	20 A	1	5	1.1			1	20 A LARGE CONFERENCE RECEPTACLES	8	
11	STAFF BREAK GARBAGE DISPOSAL (GFCI)	20 A	1		0.5	1.2		1	20 A LARGE CONFERENCE FLOOR BOXES AND TV	10	
13	STAFF BREAK DISHWASHER	20 A	1	0.8	0.8		0.8	0.5	1	20 A LARGE CONFERENCE COUNTER RECEPTACLES	12
15	STAFF BREAK COFFEE MAKER	20 A	1					1	20 A LARGE CONFERENCE UIC REFRIGGERATORS	14	
17	STAFF BREAK REFRIGERATOR	20 A	1		1.4	0.9		1	OFFICE RECEPTACLES	16	
19	TRAINING ROOM RECEPTACLES AND TVS	20 A	1	0.7	0.9		0.8	1.1	1	CORRIDOR ALCOVE COUNTER RECEPTACLES	18
21	TRAINING ROOM RECEPTACLES AND TVS	20 A	1		0.7	0.9		1	20 A OFFICE RECEPTACLES	20	
23	TRAINING ROOM FLOOR BOXES	20 A	1				0.8	0.5	1	20 A OFFICE RECEPTACLES	22
25	TRAINING ROOM FLOOR BOXES	20 A	1	0.8	0.2			1	20 A WORK ROOM COUNTER RECEPTACLES	24	
27	TRAINING ROOM FLOOR BOXES	20 A	1			0.8	0.5	1	20 A WORK ROOM FOLDING MACHINE	26	
29	TRAINING ROOM FLOOR BOXES	20 A	1				0.8	0.9	1	20 A WORK ROOM COUNTER RECEPTACLES	28
31	TRAINING ROOM RECEPTACLES	20 A	1	0.5	0.9			1	20 A OFFICE RECEPTACLES	30	
33	TRAINING ROOM COUNTER RECEPTACLES	20 A	1		0.4	0.4		1	20 A OFFICE RECEPTACLES	32	
35	TRAINING ROOM UIC REFRIGERATORS	20 A	1				0.8	1.2	1	20 A PRINT / SUPPLY COPER	34
37	RECEPTION RECEPTACLES	20 A	1	0.5	0.7			1	20 A ADMINISTRATION RECEPTACLES	36	
39	RECEPTION RECEPTACLES	20 A	1		0.5	0.7		1	20 A ADMINISTRATION RECEPTACLES	40	
41	SECURE STORAGE AND CORRIDOR...	20 A	1				0.7	0.9	1	20 A ADMINISTRATION RECEPTACLES AND TV	42
Total Load:				23.9 KVA	21.9 KVA	24.4 KVA					
Load Summary:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Receptacle		70170 VA		57.13%		40085 VA		Total Conn. Load: 70170 VA			
								Total Est. Demand: 40085 VA			
								Total Conn. Current: 195 A			
								Total Est. Demand Current: 111 A			
Remarks:											

Branch Panel: L3										
Location: ELECTRICAL 124					Voltage: 120/208 Wye			Branch: NORMAL		
Supplied From: L2					Phase: 3			A.L.C. Rating: TBD		
Mounting: SURFACE					Wire: 4			Main Type: MLO		
Enclosure Type: TYPE 1					Ground: YES			Main Rating: 400A		
General Panel Comments:										
Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	WARMING KITCHEN RECEPTACLES	20 A	1	0.5	0.7			1	UNION HALL RECEPTACLES	2
3	WARMING KITCHEN REFRIGERATOR	20 A	1		1.2	0.9		1	UNION HALL RECEPTACLES	4
5	WARMING KITCHEN RECEPTACLES	20 A	1			0.5	0.9	1	UNION HALL RECEPTACLES	6
7	WARMING KITCHEN RECEPTACLES	20 A	1	0.4	0.5			1	UNION HALL TVS	8
9	WARMING KITCHEN RECEPTACLES	20 A	1		0.4	0.5		1	UNION HALL TVS	10
11	KITCHEN AND GEN STORAGE RECEPTACLES	20 A	1			0.7	0.5	1	UNION HALL PLATFORM RECEPTACLES	12
13	EVENT STORAGE RECEPTACLES	20 A	1	0.9	0.7			1	UNION HALL PLATFORM RECEPTACLES	14
15	MENS RESTROOM RECEPTACLES	20 A	1		0.5	1.6		1	UNION HALL PLATFORM AUDIO / VISUAL RACK	16
17	WOMENS RESTROOM RECEPTACLES	20 A	1			0.5	1.6	1	UNION HALL PLATFORM AUDIO / VISUAL RACK	18
19	JANITOR AND CORRIDOR RECEPTACLES	20 A	1	0.5	1			1	UNION HALL BUFFET RECEPTACLE	20
21	CHECK IN RECEPTACLES AND TV	20 A	1		0.9	1		1	UNION HALL BUFFET RECEPTACLE	22
23	MERCHANDISE RECEPTACLES	20 A	1			0.7	1	1	UNION HALL BUFFET RECEPTACLE	24
25	CORRIDOR, HALL ENTRY, AND FAMILY RR RECS	20 A	1	0.5	1			1	UNION HALL BUFFET RECEPTACLE	26
27	SMALL CONF ROOM RECEPTACLES AND TV	20 A	1		0.9	1		1	UNION HALL BUFFET RECEPTACLE	28
29	ARCHIVE STORAGE RECEPTACLES	20 A	1			0.7	1	1	UNION HALL BUFFET RECEPTACLE	30
31	LOBBY RECEPTACLES, PCS, AND TVS	20 A	1	1.3	1			1	UNION HALL BUFFET RECEPTACLE	32
33	CORRIDOR RECEPTACLES	20 A	1		0.7	1		1	UNION HALL SIGN AND MEMORIAL CASE	34
35	JANITOR, OFFICE SUPPLY, CORRIDOR RECS	20 A	1			0.5	0	1	SPARE	36
37	SPARE	20 A	1	0	0			1	SPARE	38
39	SPARE	20 A	1		0	0		1	SPARE	40
41	SPARE	20 A	1			0	0	1	SPARE	42
Total Load:				9.1 KVA	10.7 KVA	8.8 kVA				
Load Summary:										
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals		
Receptacle		28600 VA		67.48%		19300 VA		Total Conn. Load: 28600 VA		
									Total Est. Demand: 19300 VA	
									Total Conn. Current: 79 A	
									Total Est. Demand Current: 54 A	
Remarks:										





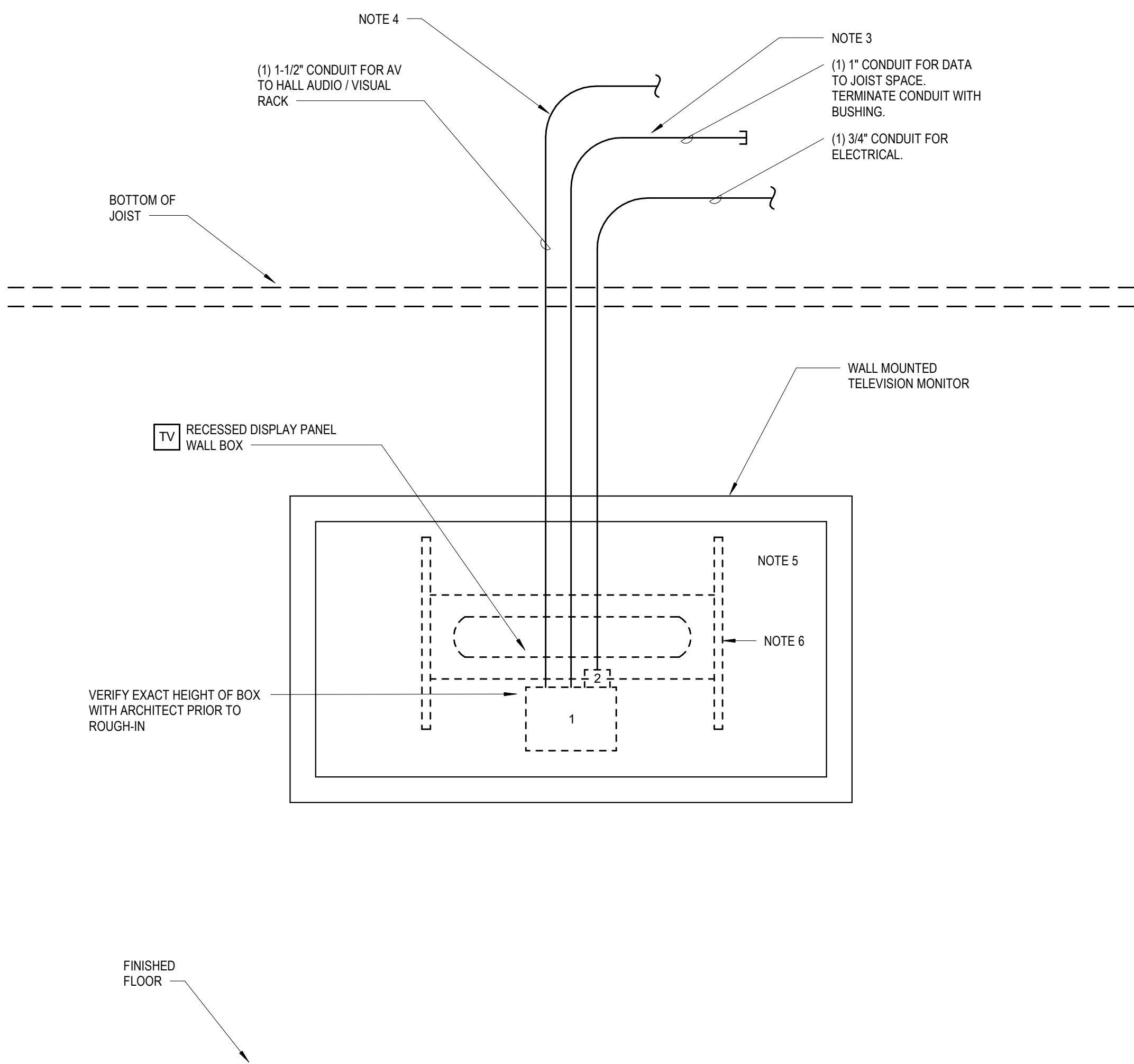




NOTES:

- FSR PWB-273 FOUR INCH DEEP FLAT PANEL BACKBOX. COORDINATE HEIGHT WITH OWNER PRIOR TO INSTALLATION. PROVIDE COMPLETE WITH MANUFACTURER'S BLANK COVERPLATE. COORDINATE INSTALLATION WITH REQUIRED BLOCKING.
- INSTALL DUPLEX RECEPTACLE FLUSH IN TOP AND BOTTOM OF FSR BACKBOX AT THIS LOCATION.
- STUB CONDUIT ABOVE CEILING AND EXTEND TO NEAREST ACCESSIBLE CEILING. UTILIZE SWEEPING 90 DEGREE ELBOW AND INSTALL BUSHING. PROVIDE PULL STRING.
- EXTEND (1) 3/4" CONDUIT TO SINGLE GANG BACKBOX. INSTALL RECEPTACLE AS PER FLOOR PLANS.
- PROVIDE WOOD BLOCKING AT TV LOCATIONS.
- OWNER PROVIDED THIN CLIENT MOUNTED INSIDE FSR BOX. PROVIDE UNIVERSAL MOUNTING BRACKET AS REQUIRED.
- PROVIDE AND INSTALL FLAT TILT TV MOUNT.

5 TYPICAL TV MONITOR INSTALLATION DETAIL  
NO SCALE



NOTES:

- FSR PWB-273 FOUR INCH DEEP FLAT PANEL BACKBOX. COORDINATE HEIGHT WITH OWNER PRIOR TO INSTALLATION. PROVIDE COMPLETE WITH MANUFACTURER'S BLANK COVERPLATE. COORDINATE INSTALLATION WITH REQUIRED BLOCKING.
- INSTALL DUPLEX RECEPTACLE FLUSH IN TOP OF FSR BACKBOX AT THIS LOCATION.
- STUB CONDUIT ABOVE CEILING AND EXTEND TO NEAREST ACCESSIBLE CEILING. UTILIZE SWEEPING 90 DEGREE ELBOW AND INSTALL BUSHING. PROVIDE PULL STRING.
- ROUTE 1-1/2" CONDUIT FROM FSR PWB-273 BACK BOX TO UNION HALL AUDIO / VISUAL RACK FOR HDMI CONNECTION TO TV.
- PROVIDE WOOD BLOCKING AT TV LOCATIONS.
- PROVIDE AND INSTALL FULL MOTION ARTICULATING AND LONG EXTENSION TV MOUNT.

6 TYPICAL UNION HALL TV MONITOR INSTALLATION DETAIL  
NO SCALE