





**F**  
FA FAHRENHEIT  
FACP FIRE ALARM CONTROL PANEL  
FDC FIRE DEPARTMENT CONNECTION  
FD FLOOR DRAIN  
FDN FOUNDATION  
FEC FIRE EXTINGUISHER CABINET  
FE FIRE EXTINGUISHER  
FE FINISHED EDGE  
FG FINISH GRADE  
FHC FIRE HOSE CABINET  
FIN FINISH  
FLR FLOOR  
FND FOUNDATION  
FO FINISHED OPENING  
FOC FACE OF CONCRETE  
FOM FACE OF MASONRY  
FOS FACE OF STUD  
FOW FACE OF WALL  
FRG FIBER REINFORCED GYPSUM  
FSP FIRE STANDPIPE  
FT FEET  
FV FIELD VERIFY

**E**  
EA EACH  
EJ EXPANSION JOINT  
EIFS EXTERIOR INSULATION AND FINISH SYSTEM  
EL ELEVATION  
ELEC ELECTRICAL  
ELEV ELEVATOR  
EOS EDGE OF SLAB  
ERD EXISTING ROOF DRAIN  
EQ EQUAL  
EQUIP EQUIPMENT  
EWC ELECTRIC WATER COOLER  
EXIST EXISTING  
EXP EXPOSED  
EXT EXTERIOR

**D**  
D DEEP  
DEG DEGREE  
DEMO DEMOLITION  
DF DRINKING FOUNTAIN  
DIA DIAMETER  
DIM DIMENSION  
DN DOWN  
DS DOWNSPOUT  
DWGS DRAWINGS

**B**  
BD BOARD  
BLDG BUILDING  
BO BOTTOM OF

**A**  
A/C AIR CONDITIONING  
AD AREA DRAIN  
AFC ABOVE FINISHED CEILING  
AFF ABOVE FINISHED FLOOR  
AHU AIR HANDLING UNIT  
ALUM ALUMINUM  
ANOD ANODIZED  
ARCH ARCHITECT  
@ AT

**P**  
P LAM PLASTIC LAMINATE  
PLAS PLASTER  
PLUMB PLUMBING  
PR PAIR  
PSI POUNDS PER SQUARE INCH  
PSF POUNDS PER SQUARE FOOT  
PVC POLYVINYL CHLORIDE

**O**  
OC ON CENTER  
OD OUTSIDE DIAMETER;  
OUTSIDE DIMENSION  
OFD OVERFLOW DRAIN  
OFOI OWNER FURNISHED, OWNER INSTALLED  
OH DR OVERHEAD DOOR  
OPH OPPOSITE HAND  
OPP OPPOSITE  
ORIG ORIGINAL

**N**  
N/A NOT APPLICABLE  
NIC NOT IN CONTRACT  
NOM NOMINAL  
NTS NOT TO SCALE

**L**  
LAB LABORATORY  
LAV LAVATORY  
LBS POUNDS  
LLH LONG LEG HORIZONTAL  
LLV LONG LEG VERTICAL  
LPT LOW POINT

**H**  
H HIGH  
HB HOSE BIBB  
HDR HEADER  
HM HOLLOW METAL  
HPT HIGH POINT  
HR HOUR  
HT HEIGHT

**G**  
GA GAUGE  
GALV GALVANIZED  
GFRG GLASS-FIBER-REINFORCED CONCRETE  
GFRG GLASS-FIBER-REINFORCED GYPSUM  
GL GLASS  
GWB GYPSUM WALL BOARD  
GYP GYPSUM

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

**U**  
UL UNDERWRITER'S LABORATORIES  
UNO UNLESS NOTED OTHERWISE

**I**  
T TREAD  
TEL TELEPHONE  
TEMP TEMPORARY  
THK THICK  
TOC TOP OF CONCRETE  
TOM TOP OF MASONRY  
TOP TOP OF PARAPET  
TOS TOP OF SLAB; TOP OF STEEL  
TOW TOP OF WALL  
TYP TYPICAL  
TO TOP OF

**S**  
S SMOKE DETECTOR  
SAM SELF ADHESIVE MEMBRANE  
SCHED SCHEDULE  
SECT SECTION  
SIM SIMILAR  
SPEC SPECIFICATION  
SS STAINLESS STEEL  
STD STANDARD  
STRUCT STRUCTURAL

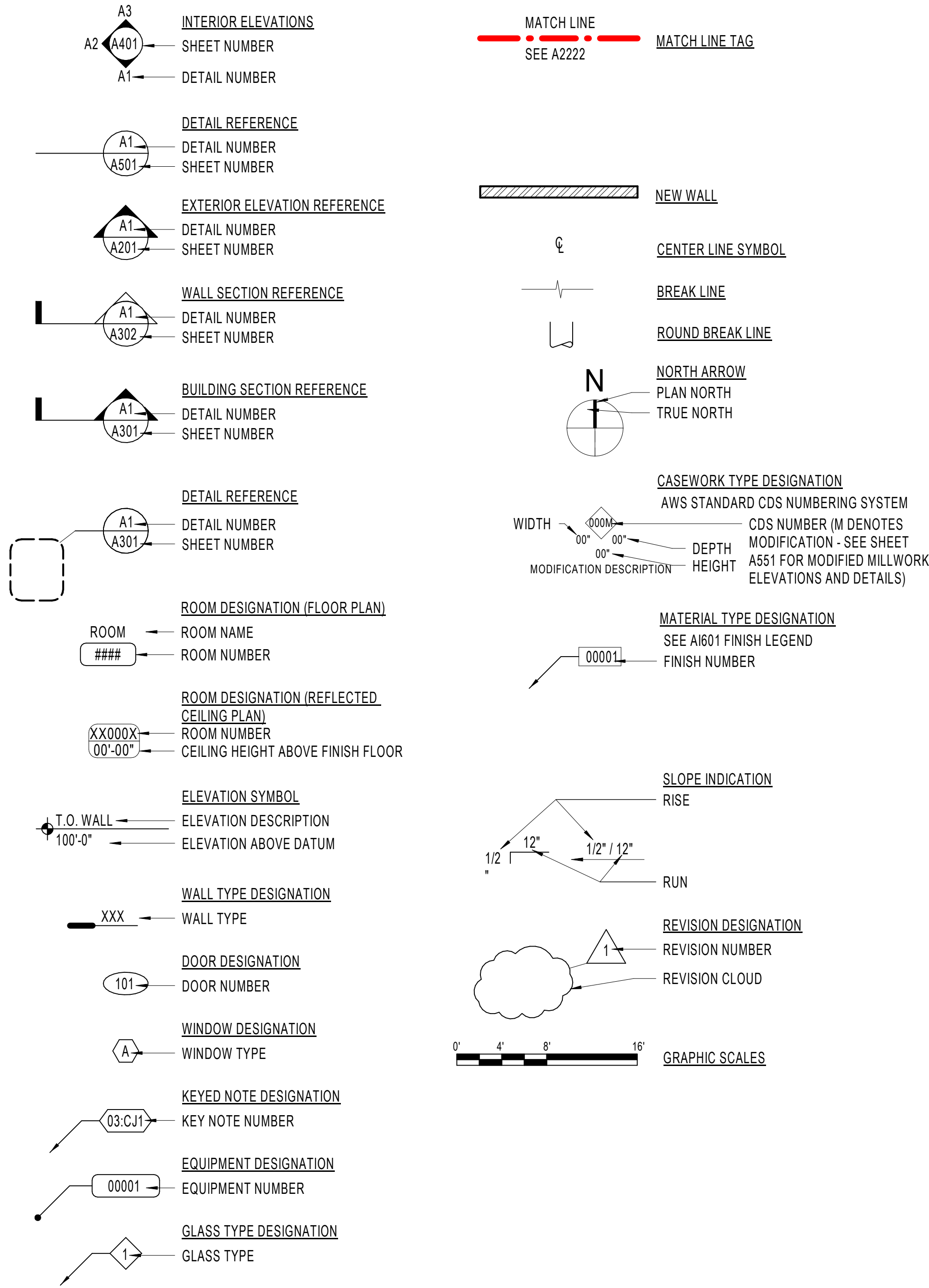
**R**  
R RISER OR RADIUS  
RAD RADIUS  
RCP REFLECTED CEILING PLAN  
RD ROOF DRAIN  
REF REFRIGERATOR  
REQD REQUIRED  
REV REVISION  
RH RELATIVE HUMIDITY  
RM ROOM  
RO ROUGH OPENING  
RTU ROOF TOP UNIT  
RWL RAIN WATER LEADER

## HATCH LEGEND

NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.

	CAST-IN-PLACE CONCRETE		CONTINUOUS MATERIAL
	GYPSUM BOARD		NON CONTINUOUS MATERIAL (BLOCKING)
	STEEL STUDS		PLYWOOD
	WOOD STUDS		EXTERIOR SHEATHING
	BRICK VENEER		GRAVEL
	RIGID INSULATION		UNDISTURBED EARTH
	BATT INSULATION		BACKFILL OR FILL

## DRAWING SYMBOL LEGEND



## SHEET INDEX

### GENERAL:

G001 COVER SHEET  
G002 GENERAL INFORMATION  
G101 EXITING AND OCCUPANCY PLANS  
G501 ASSEMBLY TYPES  
G701 ACCESSIBILITY COMPLIANCE

### CIVIL:

1 OVERALL & EXISTING CONDITIONS  
2 SITE & GRADING PLAN  
3 UTILITY PLAN  
4 CONSTRUCTION MITIGATION PLAN  
5 DETAILS

### SITE:

DS101 SITE DEMOLITION PLAN  
AS101 ARCHITECTURAL SITE PLAN  
AS601 MATERIALS AND FINISHES SCHEDULE  
AS701 SITE DETAILS  
LI101 IRRIGATION PLAN  
LI601 IRRIGATION LEGEND  
LI701 IRRIGATION DETAILS  
LI702 IRRIGATION DETAILS  
LI703 IRRIGATION DETAILS  
LP101 PLANTING PLAN (GROUND PLANE)  
LP111 PLANTING PLAN  
LP601 PLANTING LEGEND  
LP701 PLANTING DETAILS

### STRUCTURAL:

S001 STRUCTURAL NOTES  
S002 SCHEDULES  
S003 SCHEDULES  
S101 FOOTING AND FOUNDATION PLAN  
S102 MAIN LEVEL SHEAR WALL & HOLDOWN PLAN  
S103 ROOF FRAMING PLANS  
S201 DETAILS  
S202 DETAILS  
S203 DETAILS  
S204 DETAILS  
S301 DETAILS  
S401 SCHEMATIC REFERENCE

### ARCHITECTURAL:

A101 FLOOR PLAN  
A101A FLOOR PLAN - AREA A  
A101B FLOOR PLAN - AREA B  
A111 SLAB CONTROL PLAN  
A121 ROOF PLAN  
A122 ROOF DETAILS  
A151A REFLECTED CEILING PLAN - AREA A  
A151B REFLECTED CEILING PLAN - AREA B  
A201 BUILDING ELEVATIONS  
A251 INTERIOR ELEVATIONS  
A252 INTERIOR ELEVATIONS  
A301 BUILDING SECTIONS  
A351 WALL SECTIONS - EXT.  
A352 WALL SECTIONS - EXT.  
A353 WALL SECTIONS - EXT.  
A501 SECTION & PLAN DETAILS  
A601 DOOR SCHEDULE AND TYPES  
A602 WINDOW TYPES  
A605 WINDOW DETAILS  
A701 TYPICAL DETAILS  
A702 BOULDER WALL  
A1600 FLOOR FINISH PLAN  
A1601 FINISH SCHEDULE

### MECHANICAL:

F101 FIRE PROTECTION PLAN  
MOO1 MECHANICAL LEGEND, SYMBOLS & ABBREV.  
M011 MECHANICAL ZONING PLAN  
M101 MECHANICAL OVERALL PLAN  
M101A MECHANICAL FLOOR PLAN - AREA A  
M101B MECHANICAL FLOOR PLAN - AREA B  
M102 MECHANICAL ROOF PLAN  
M301 MECHANICAL SECTIONS  
M501 MECHANICAL DETAILS  
M601 MECHANICAL SCHEDULES  
M602 MECHANICAL SCHEDULES  
M701 MECHANICAL SCHEMATICS  
P101 PLUMBING OVERALL PLAN  
P101A PLUMBING FLOOR PLAN - AREA A  
P101B PLUMBING FLOOR PLAN - AREA B  
P201 PLUMBING SCHEMATICS  
P501 PLUMBING DETAILS  
P601 PLUMBING SCHEDULES

### ELECTRICAL:

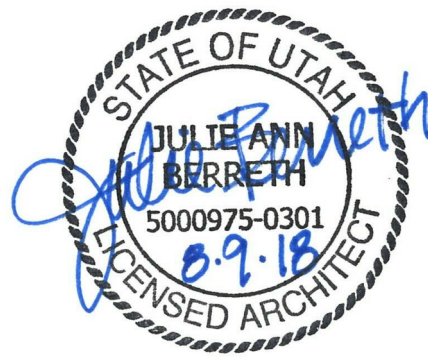
E001 SYMBOLS, SCHEDULES AND NOTES  
E002 SCHEDULES  
E101 ELECTRICAL SITE PLAN  
E201 AREA A LIGHTING PLAN  
E202 AREA B LIGHTING PLAN  
E301 AREA A POWER PLAN  
E302 AREA B POWER PLAN  
E303 AREA A MECHANICAL POWER PLAN  
E304 AREA B MECHANICAL POWER PLAN  
E401 AREA A SYSTEMS PLAN  
E402 AREA B SYSTEMS PLAN  
E501 ONE-LINE DIAGRAM  
E601 PANELBOARD SCHEDULES  
E701 ELECTRICAL DIAGRAMS  
E702 ELECTRICAL DIAGRAMS  
ET001 AV SYMBOLS AND SCHEDULES  
ET301 AREA A AV PLAN  
ET302 AREA B AV PLAN  
ET701 AV DIAGRAMS



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## CONSTRUCTION DOCUMENTS

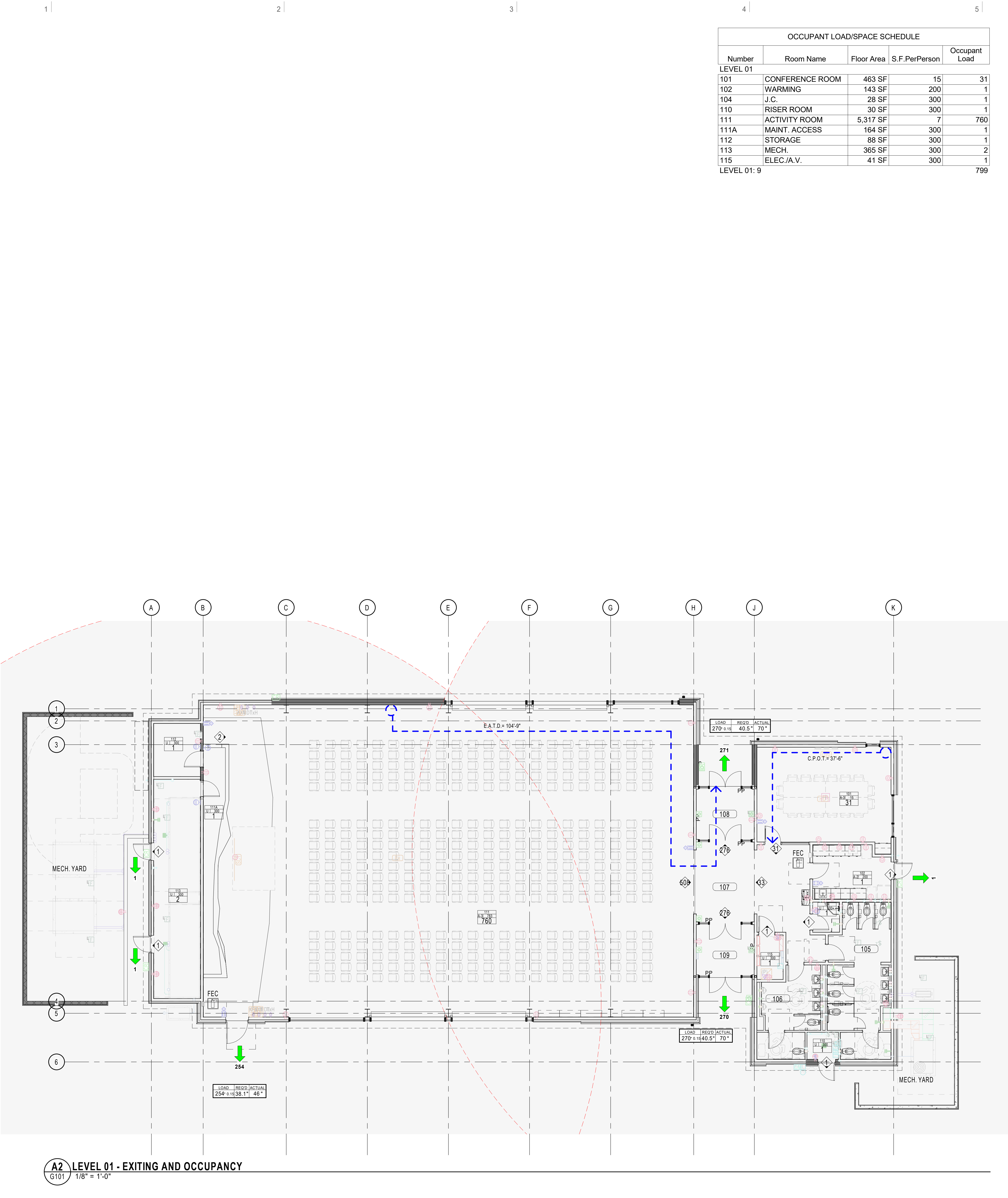
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## GENERAL INFORMATION

G002



8/10/2016 4:33:09 PM



A2 LEVEL 01 - EXITING AND OCCUPANCY  
G101 1/8" = 1'-0"

OCCUPANT LOAD/SPACE SCHEDULE				
Number	Room Name	Floor Area	S.F./PerPerson	Occupant Load
LEVEL 01				
101	CONFERENCE ROOM	463 SF	15	31
102	WARMING	143 SF	200	1
104	J.C.	28 SF	300	1
110	RISER ROOM	30 SF	300	1
111	ACTIVITY ROOM	5,317 SF	7	760
111A	MAINT. ACCESS	164 SF	300	1
112	STORAGE	88 SF	300	1
113	MECH.	365 SF	300	2
115	ELEC./A.V.	41 SF	300	1
LEVEL 01: 9				799

PROJECT NAME

NAC Recreation Center

PROJECT NO:

17135

BUILDING DATA & CODE SUMMARY

OCCUPANCY CLASSIFICATION (Chapter 3)

☒ SINGLE OCCUPANCY

OCCUPANCY CLASSIFICATION(S):

A-3

USE(S):

Recreation Center and Conference Room

CONSTRUCTION CLASSIFICATION (Chapter 6)

VB

AUTOMATIC SPRINKLER SYSTEM PROVIDED:

☒ YES

☐ NO

NFPA STANDARD:

☒ 13

☐ 13R

☐ 13D

HEIGHT & AREA - ACTUAL

BUILDING HEIGHT

HEIGHT IN FEET

27' - 5"

HEIGHT IN STORIES

1

BUILDING AREA SUMMARY

BUILDING AREA

TOTAL

8,355

sf

HEIGHT & AREA - ALLOWABLE (Chapter 5)

ALLOWABLE AREA

A-3

S

1

OCCUPANCY CLASS.

SPRIKLER SYSTEM

N or S

1 or M

ALLOWABLE AREA =

24,000

sf

ALLOWABLE HEIGHT

A-3

S

1

OCCUPANCY CLASS.

SPRIKLER SYSTEM

N or S

1 or M

ALLOWABLE HEIGHT =

60'

ALLOWABLE STORIES =

2

MEANS OF EGRESS - (Chapter 10)

DESIGN OCCUPANT LOAD SUMMARY -

TABLE 1004.1.2

FLOOR LEVEL

DESIGN OCCUPANT LOAD

TOTAL

799

MEANS OF EGRESS ELEMENT

REQUIRED

PROVIDED

SECTION

NUMBER OF EXITS

3

6

(Table 1006.3.1)

EXIT ACCESS TRAVEL DISTANCE

250' MAX

104' - 9"

(1017)

DEAD-END LIMIT

20' MAX

9'

(1020.4)

COMMON PATH OF TRAVEL LIMIT

75' MAX

37'-6"

(Table 1006.3.2)(2)

EXIT WIDTH

159.8"

186"

(1005.3)

50% EGRESS WIDTH / MAIN ENTRY

76" (at entry to activity space)

144"

(1029.2)

PLUMBING FIXTURE REQUIREMENTS - (Chapter 29)

OCCUPANCY CLASSIFICATION

OCCUPANT LOAD

A-3

799

WATER CLOSETS

MEN

WOMEN

URINALS

D.F.

LAVATORIES

MEN

WOMEN

2

2

7

7

2

2

2

2

2

3

2

3

OTHER PLUMBING FIXTURE REQUIREMENTS?

1 SERVICE SINK REQD. AND PROVIDED

SYMBOL LEGEND	
	EXIT
	EXIT SIGN, SEE ELECTRICAL PLANS
	FIRE EXTINGUISHER & CABINET
	FIRE EXTINGUISHER
	OCCUPANT LOAD PER ROOM
	OCCUPANT LOAD, EGRESS DIRECTION
	OCCUPANT LOAD, EGRESS WIDTH
	COMMON PATH OF TRAVEL LENGTH
	EXIT ACCESS TRAVEL DISTANCE

EXITING AND OCCUPANCY LEGEND	
FLOOR	NO FIRE RATING
ROOF	NO FIRE RATING
WALL	NO FIRE RATING
	1 HOUR RATING

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## EXITING AND OCCUPANCY PLANS

G101

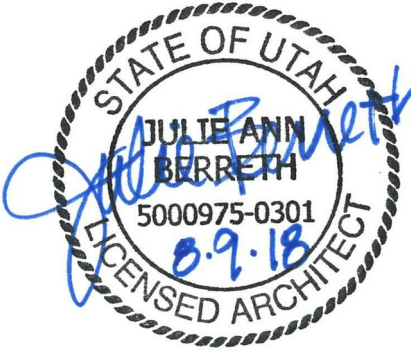


ROOF TYPE: <b>RW00.31</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:		3 NONE	
		CEILING TYPE: <b>CT00.32</b>		4 NONE	
		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:			
CEILING TYPE: <b>CW30.11</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:		5 NONE	
		CEILING TYPE: <b>CW30.21</b>		6 NONE	
		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:			

GENERAL NOTE - ASSEMBLY TYPES

- A. WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING AND/OR SUPPORT FOR WALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK AND/OR SYSTEMS FURNITURE. COORDINATE WITH FLOOR PLANS, INTERIOR ELEVATIONS AND EQUIPMENT PLANS PRIOR TO COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS AND DETAILS ON SHEET A701 WHERE APPLICABLE.
- B. ASSEMBLY THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN AT ACTUAL SIZE IN PLAN/SECTION REPRESENTATIONS. DIMENSIONS ARE TO FACE OF STUD/STRUCTURE OR GRID. "CLEAR" DIMENSIONS ARE TO FACE OF FINISH.
- C. BATT INSULATION IS SHOWN WHERE REQUIRED FOR ACOUSTIC SEPARATION AND/OR FOR REQUIRED UL RATING. DO NOT PROVIDE BATT INSULATION IN WALL TYPES THAT ARE PART OF THE EXTERIOR ENVELOPE.

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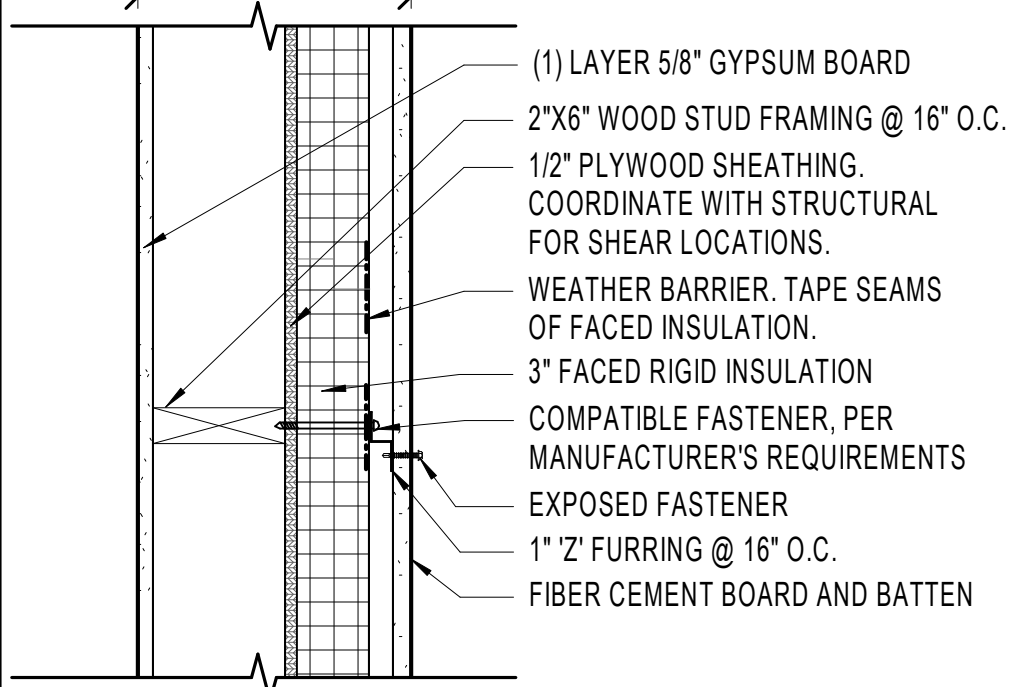
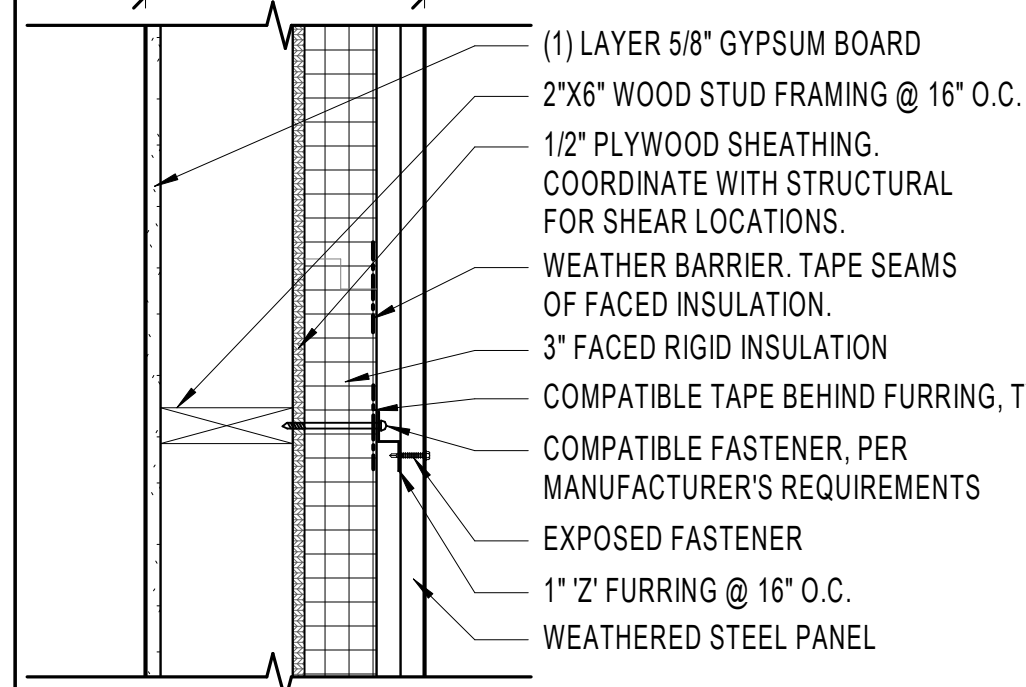
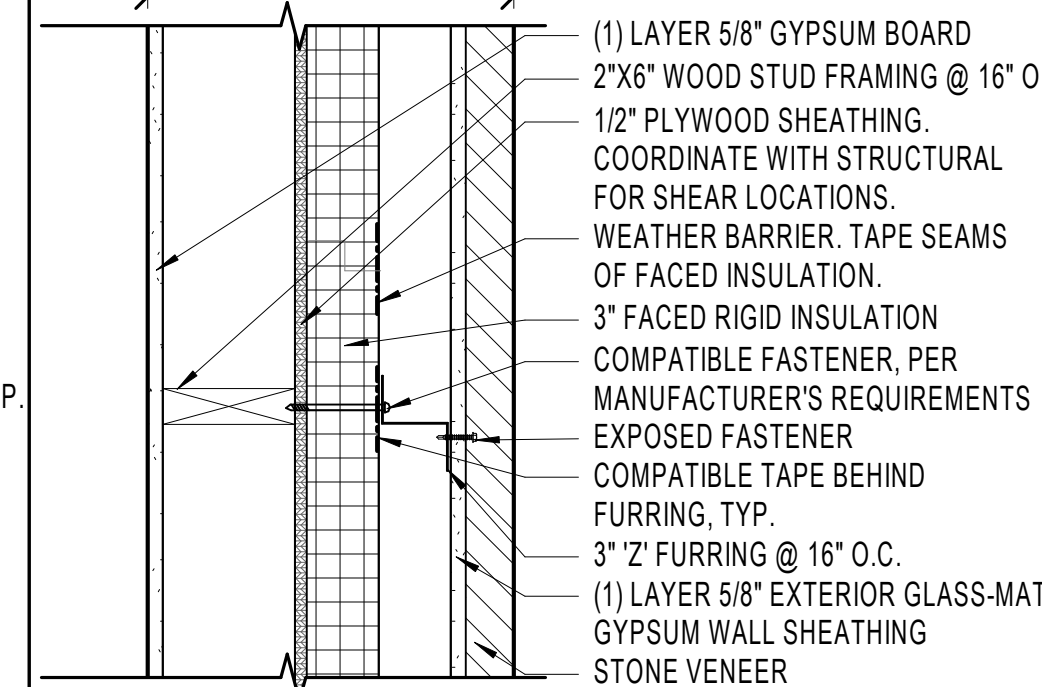
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FLOOR TYPE: <b>FG40.01</b>	FIRE RATING:	NONE
	FIRE TEST:	
	SOUND RATING:	
	SOUND TEST:	

SCHEDULED FINISH

CONCRETE SLAB, COORDINATE WITH STRUCTURAL

COMPACTED GRAVEL SUB-BASE

WALL TYPE: <b>XW60.12</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:		NONE	
HEIGHT:		HEIGHT:		HEIGHT:	
HEAD DETAIL:		HEAD DETAIL:		HEAD DETAIL:	
SILL DETAIL:		SILL DETAIL:		SILL DETAIL:	
					

E	WALL TYPE: <b>W48T</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE N/A	23	24	WALL TYPE: <b>W66</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE N/A	25	26	WALL TYPE: <b>W66A</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE STC 44 NGC 2009012	27	28	WALL TYPE: <b>W66C</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE N/A 58 NGC 2010080	29	30	WALL TYPE: <b>W66TA</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE N/A	31	32	WALL TYPE: <b>W68</b>		FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	NONE N/A
	HEIGHT: TO DECK ABOVE		HEAD DETAIL:				HEIGHT: TO DECK ABOVE		HEAD DETAIL:				HEIGHT: TO DECK ABOVE		HEAD DETAIL:				HEIGHT: TO DECK ABOVE		HEAD DETAIL:				HEIGHT: TO DECK ABOVE		HEAD DETAIL:				HEIGHT: TO DECK ABOVE		HEAD DETAIL:	
	SOUND RATING:		SOUND TEST:				SOUND RATING:		SOUND TEST:				SOUND RATING:		SOUND TEST:				SOUND RATING:		SOUND TEST:				SOUND RATING:		SOUND TEST:				SOUND RATING:		SOUND TEST:	
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ASSEMBLY TYPES





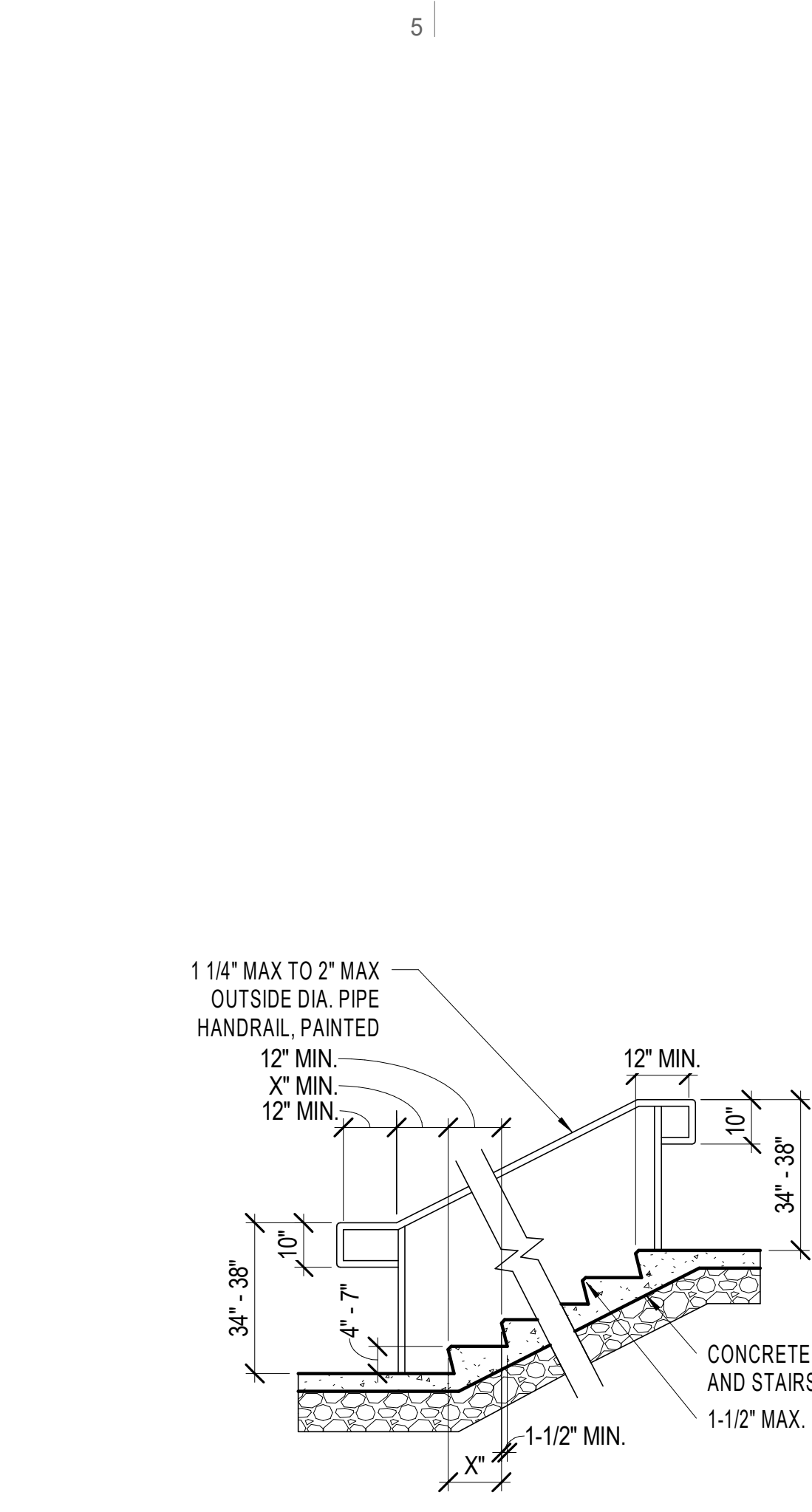
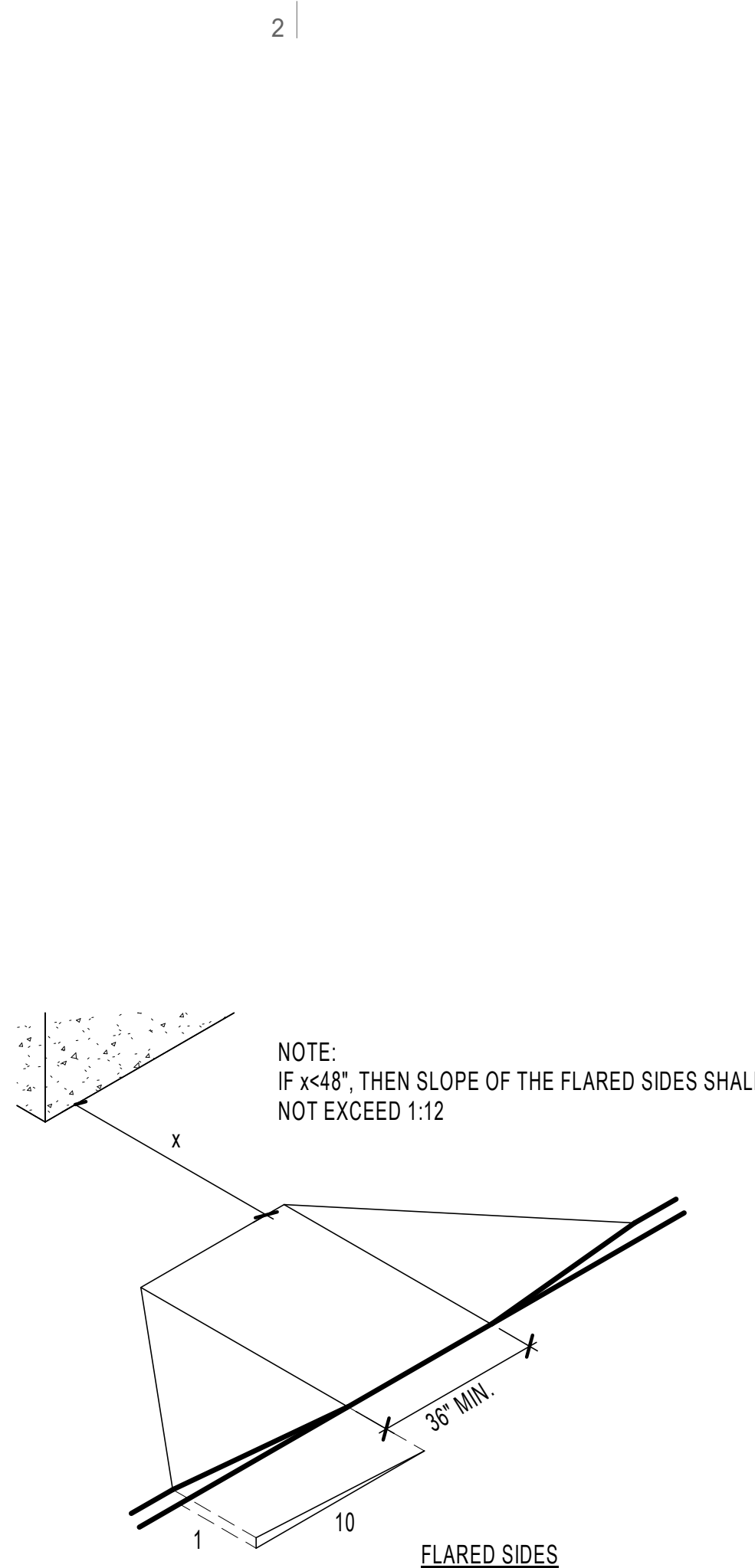
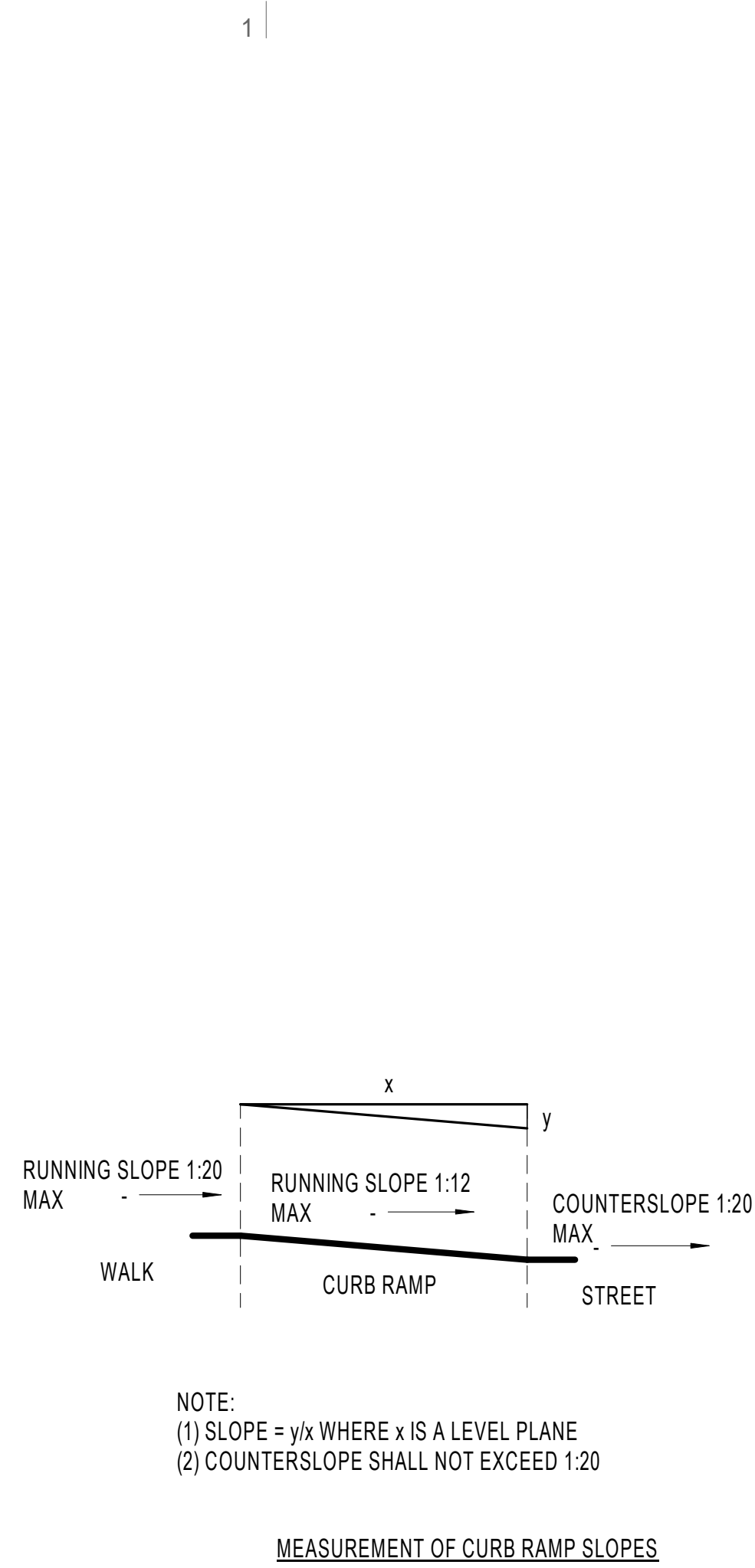
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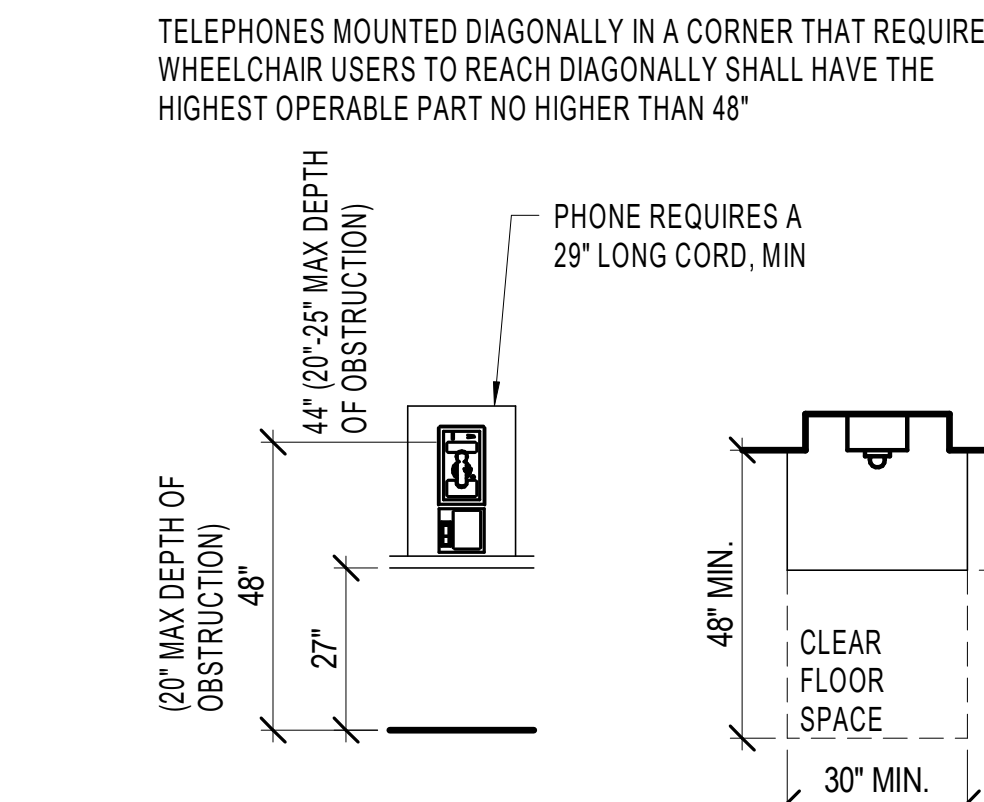
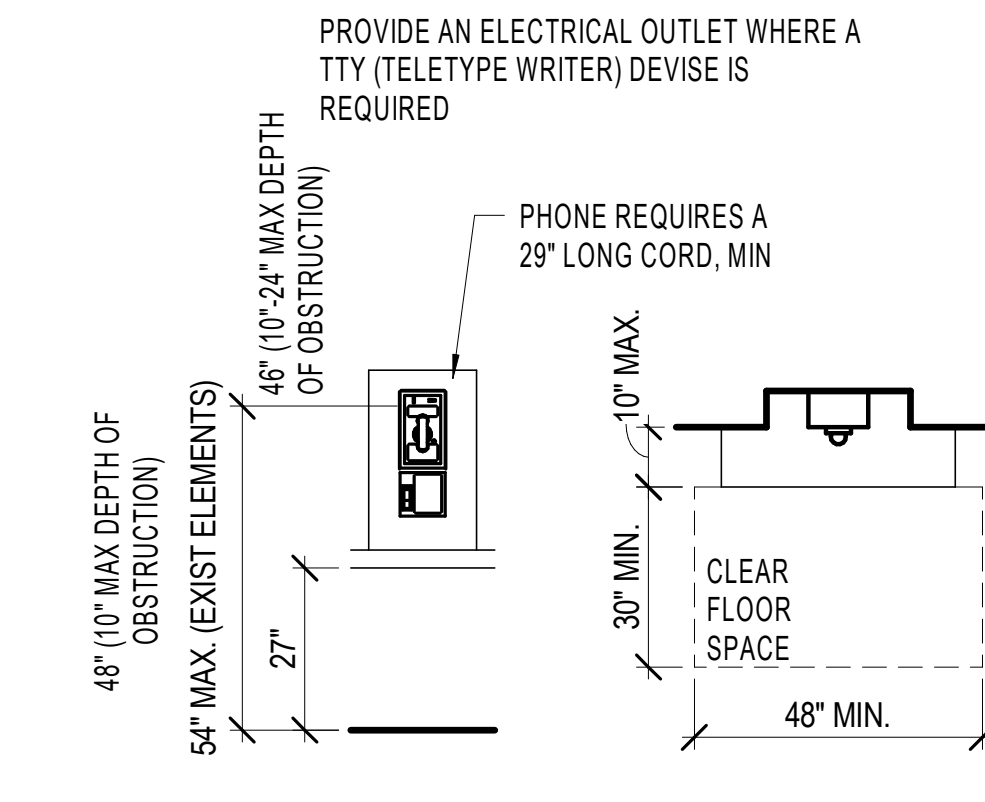
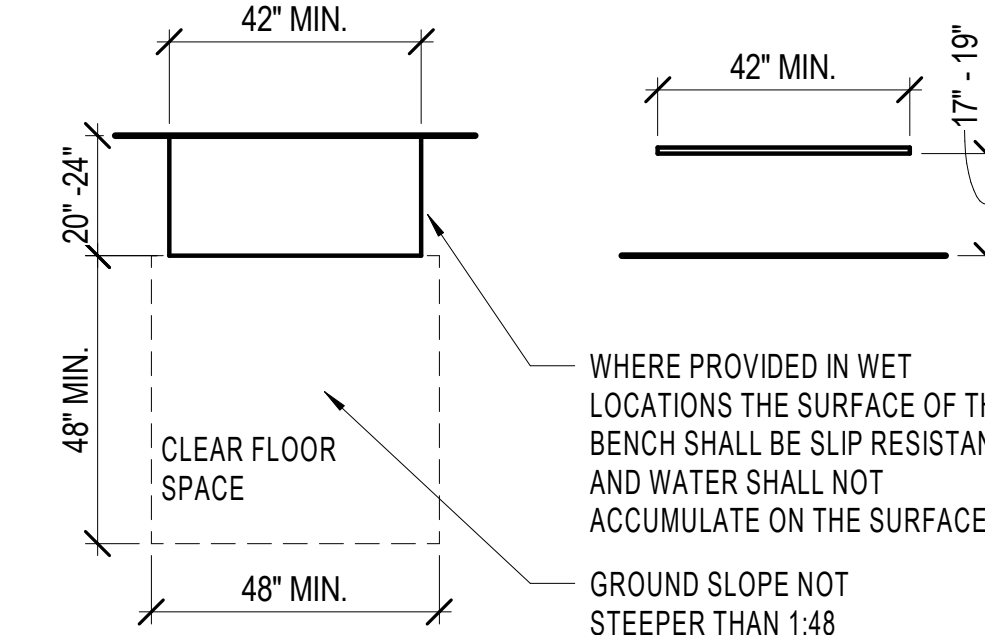
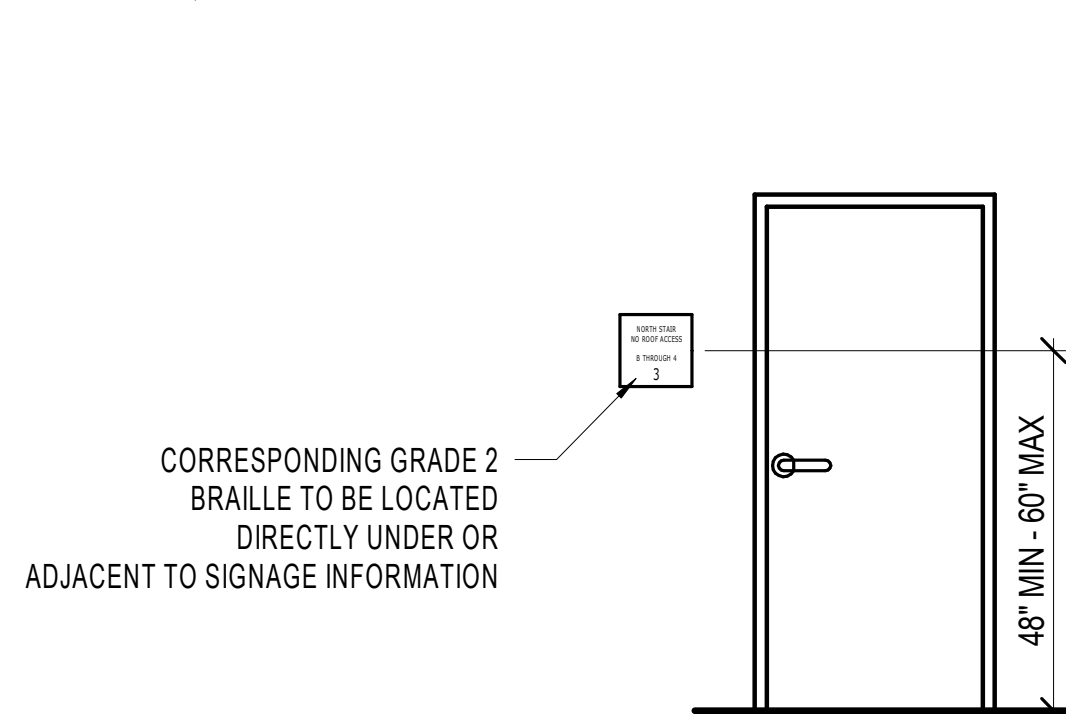


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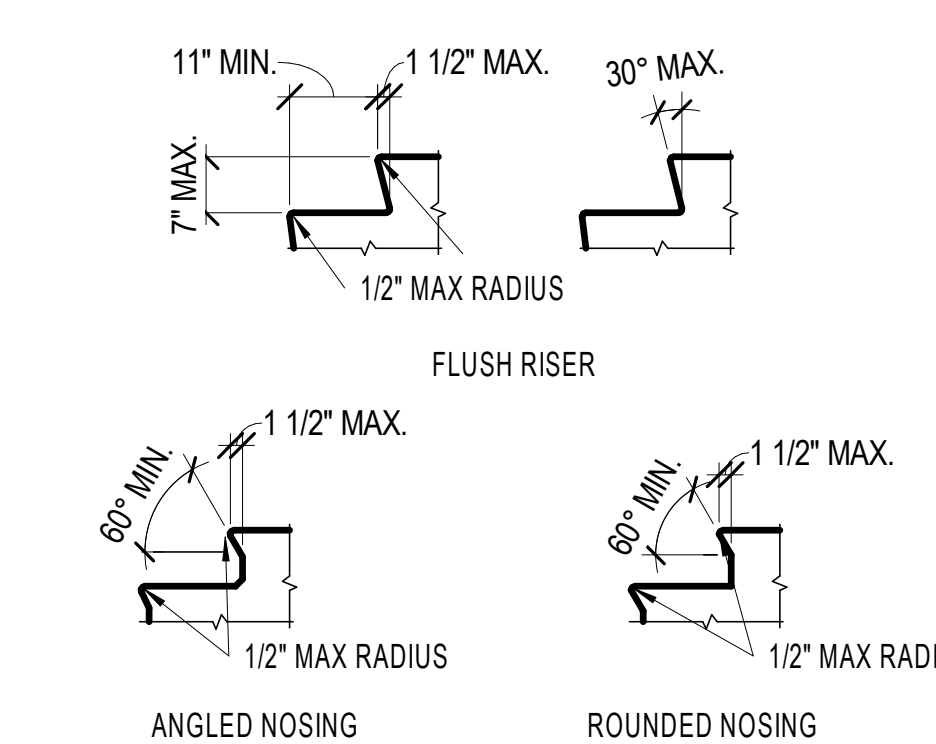


**D1 CURB RAMPS**  
G701 3/8" = 1'-0"

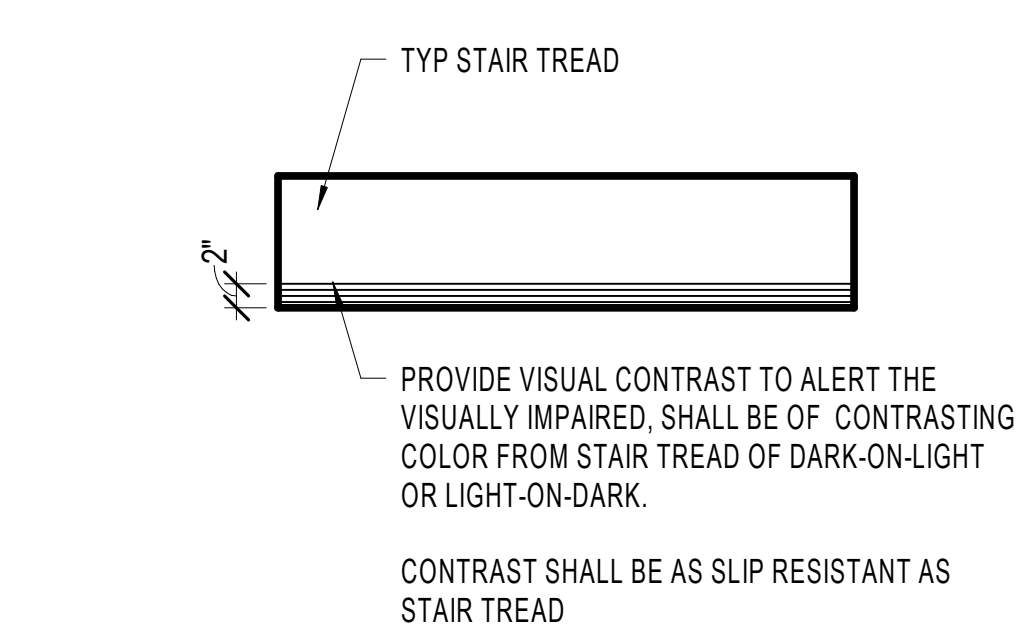
APPROVED STAIRWAY IDENTIFICATION SIGNS SHALL BE LOCATED AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS IN BUILDINGS TWO OR MORE STORIES IN HEIGHT. THE SIGN SHALL IDENTIFY THE STAIRWAY, ROOF ACCESS, FLOOR LEVEL AND UPPER & LOWER TERMINUS OF THE STAIRWAY



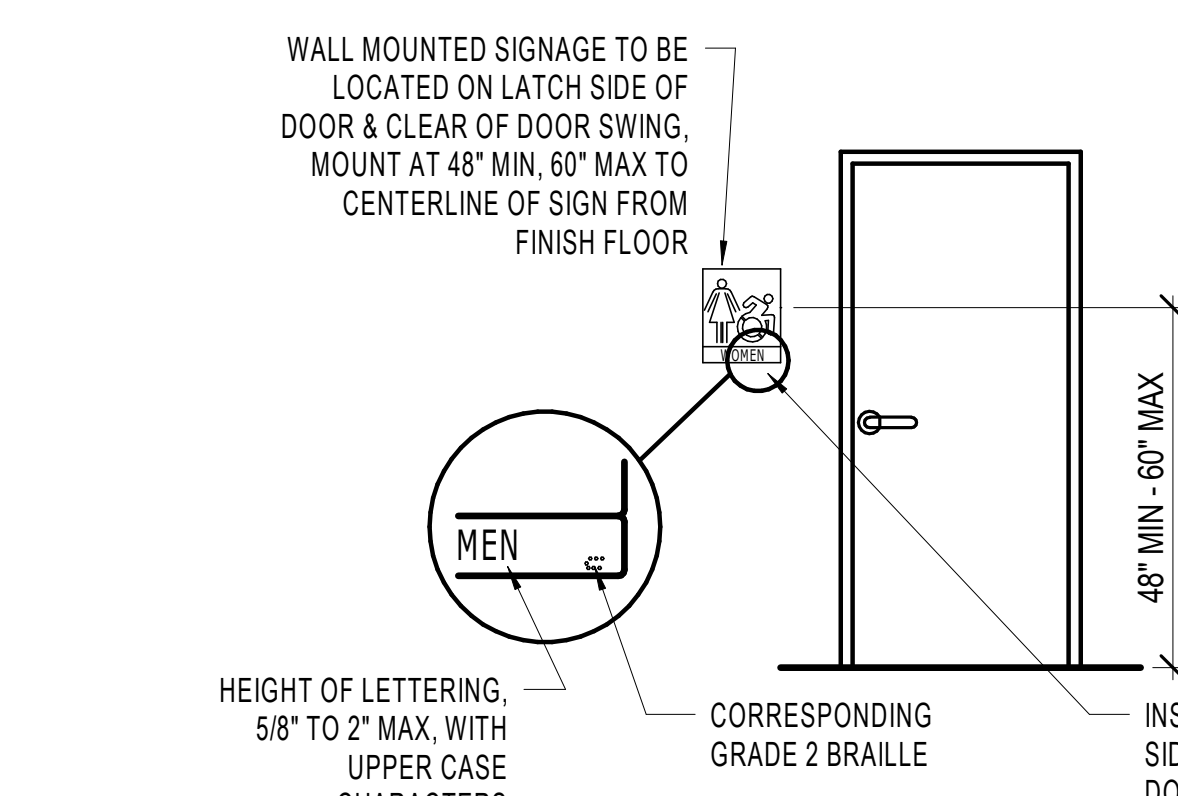
**D5 EXTERIOR STAIR RAILING**  
G701 3/8" = 1'-0"



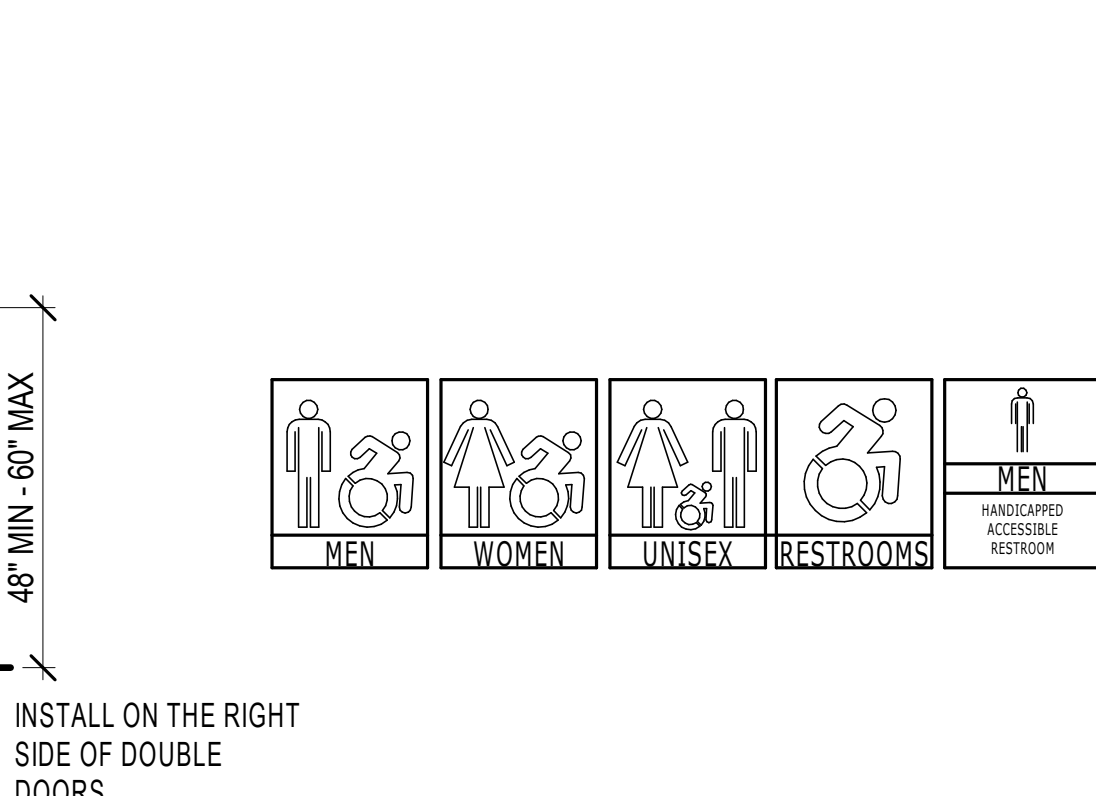
**D6 CHANGE IN LEVELS**  
G701 6" = 1'-0"



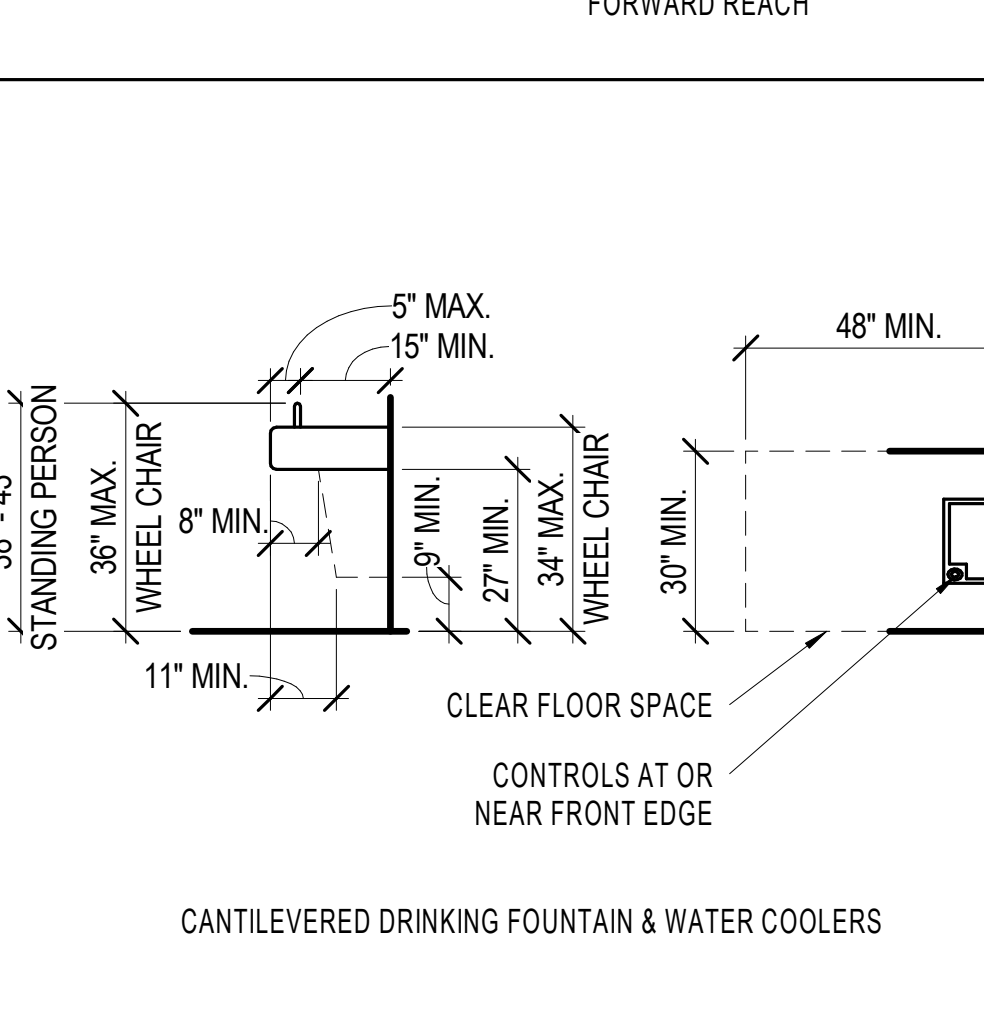
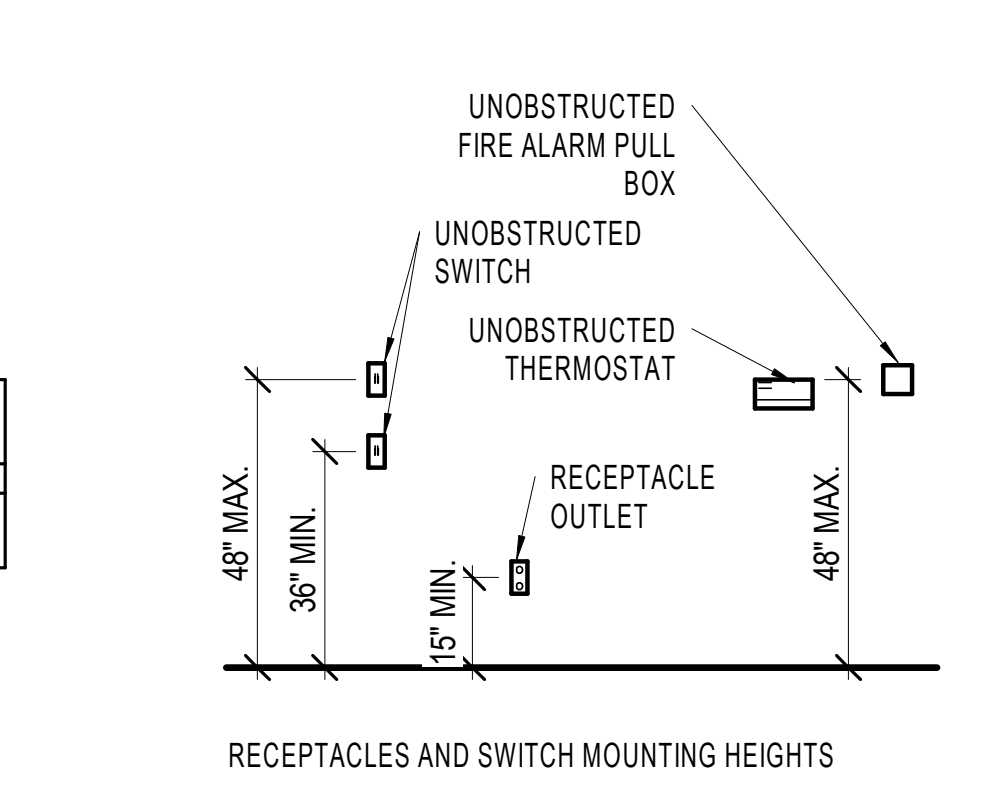
**C1 STAIRWAY SIGNAGE**  
G701 3/8" = 1'-0"



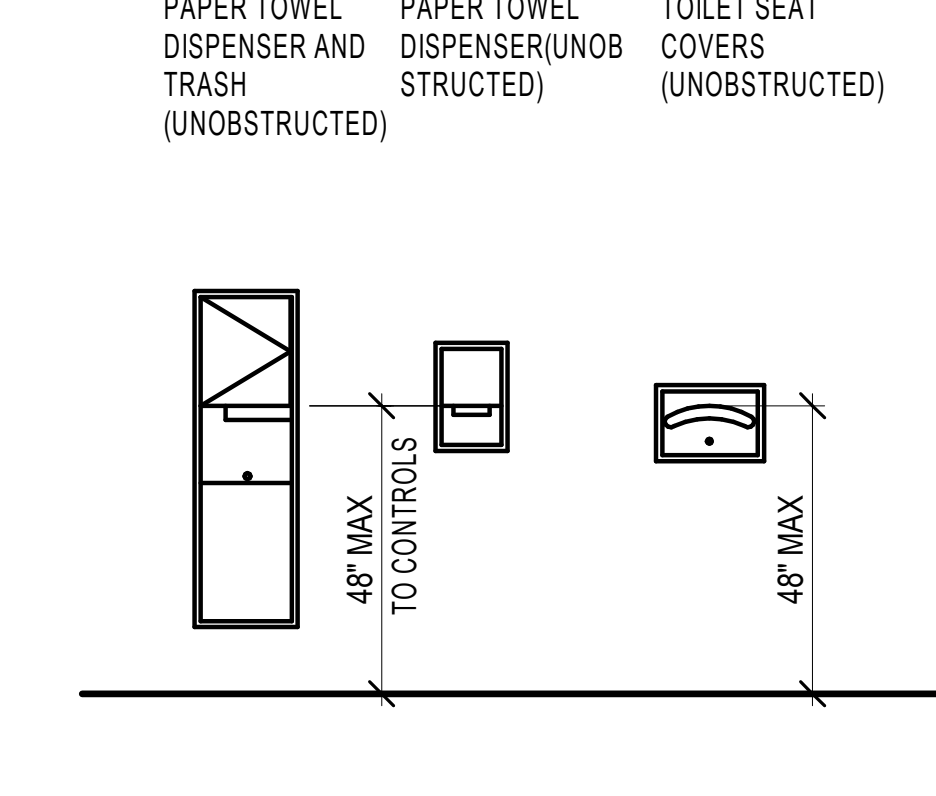
**C2 ACCESSIBLE BENCH**  
G701 3/8" = 1'-0"



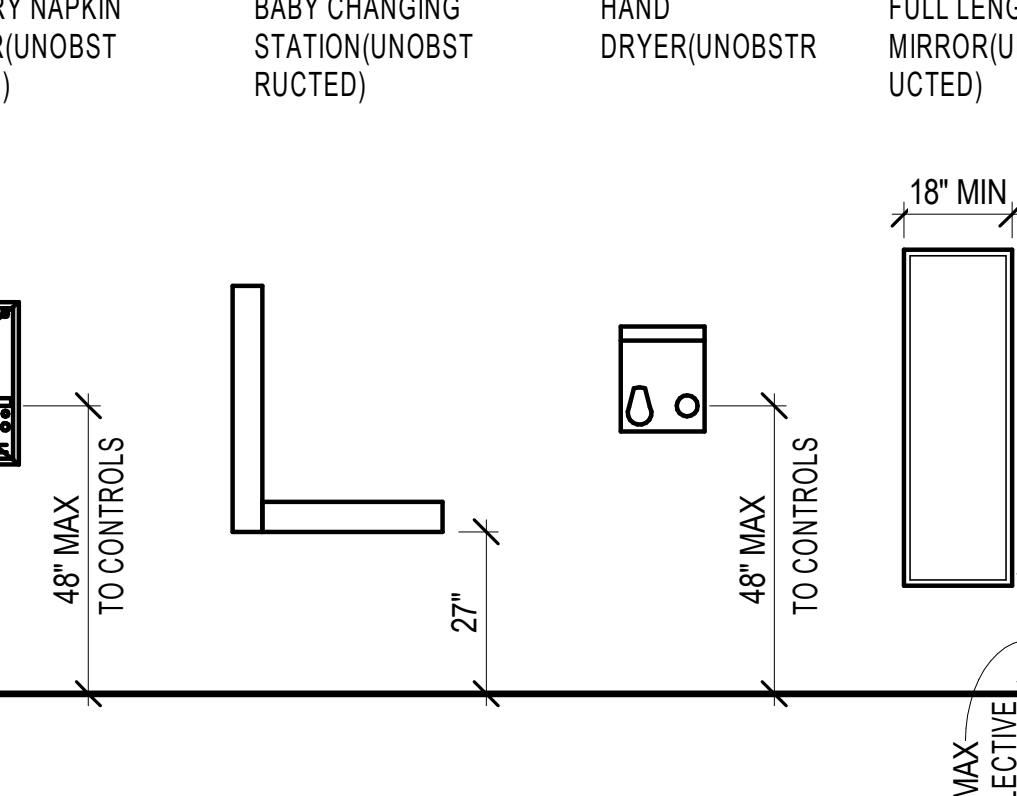
**C3 TELEPHONE DETAILS**  
G701 3/8" = 1'-0"



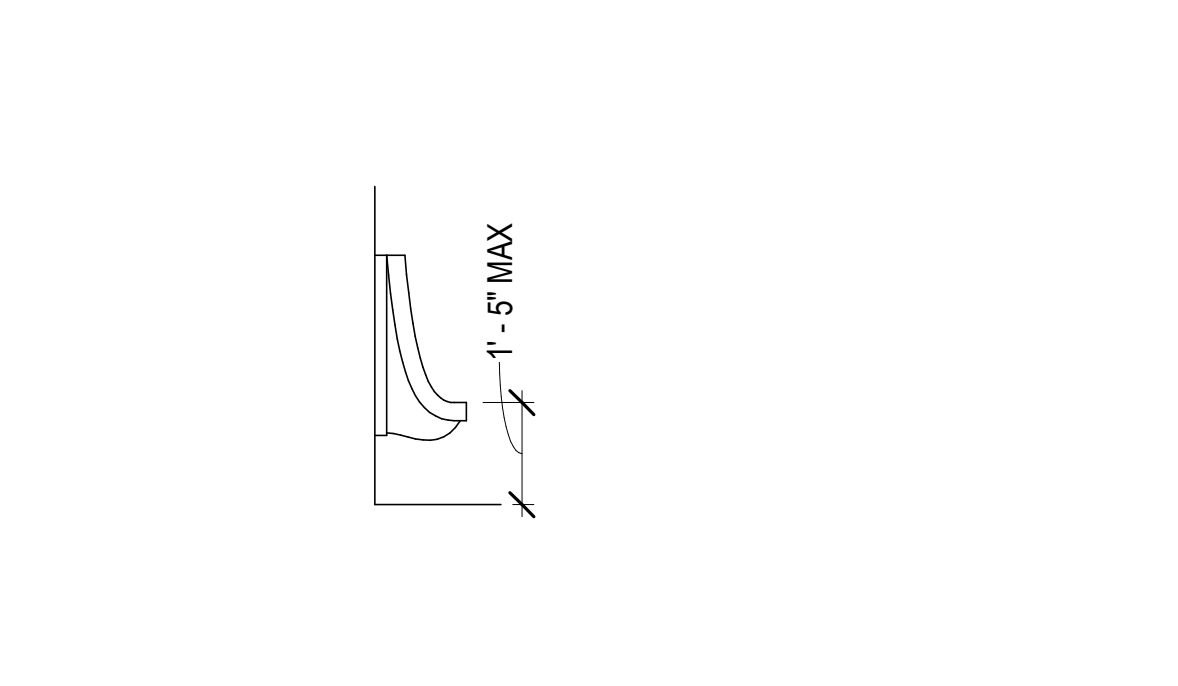
**C5 TYPICAL STAIR TREAD**  
G701 1/2" = 1'-0"



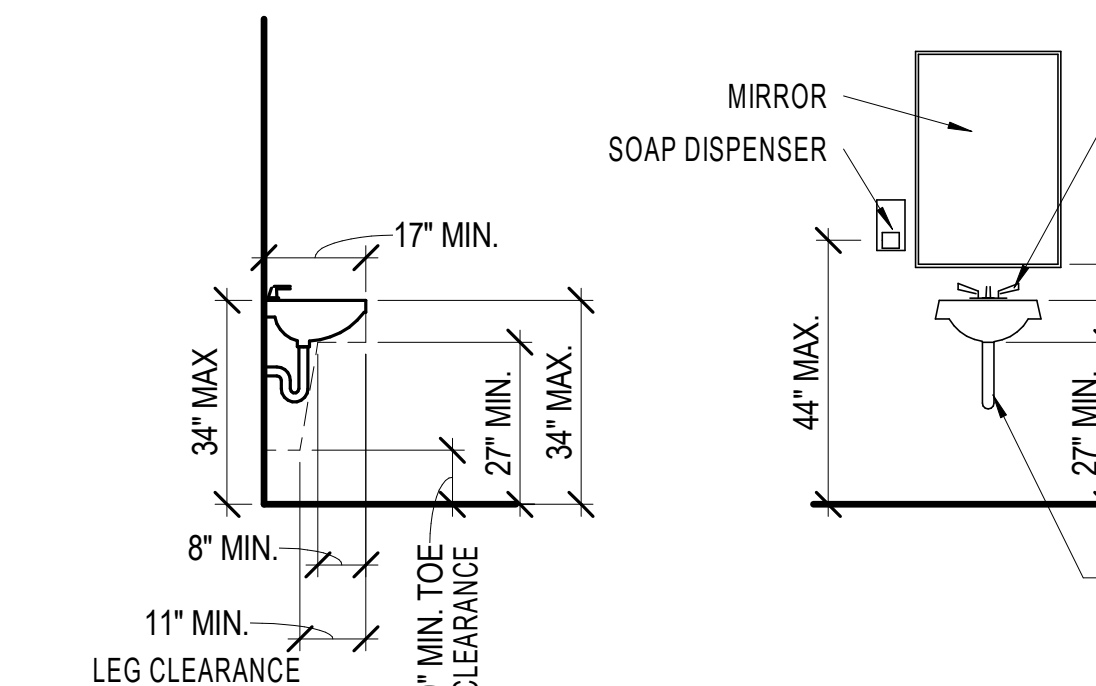
**C6 TYPICAL STAIR TREAD**  
G701 3/4" = 1'-0"



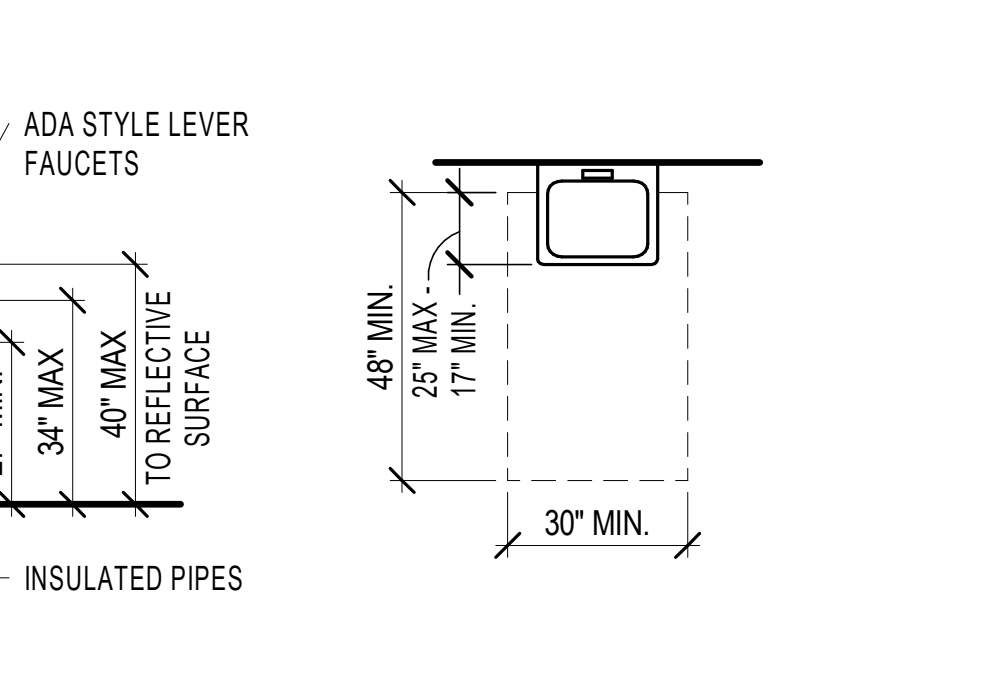
**B1 RESTROOM SIGNAGE**  
G701 3/8" = 1'-0"



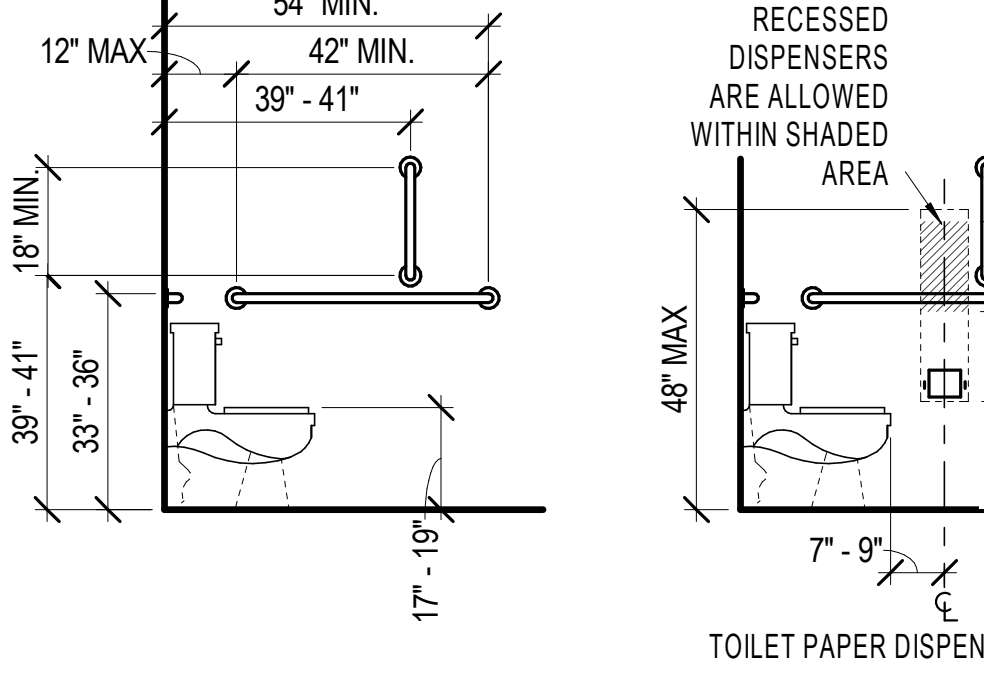
**B2 MISC. MOUNTING HEIGHTS**  
G701 3/8" = 1'-0"



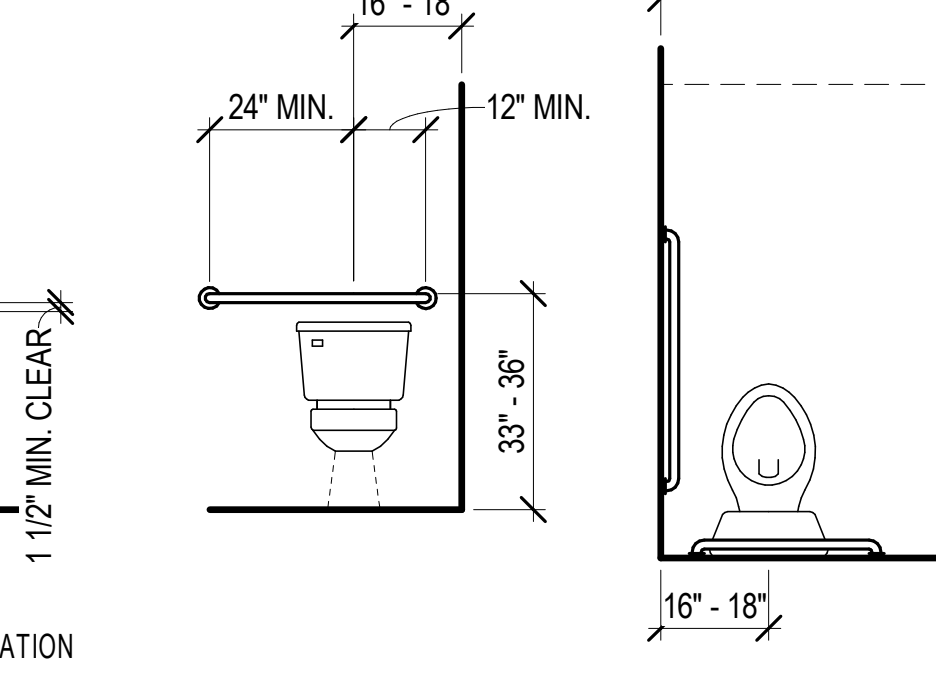
**B3 MISC. MOUNTING HEIGHTS**  
G701 3/8" = 1'-0"



**B4 DRINKING FOUNTAIN DETAIL**  
G701 3/8" = 1'-0"



**B5 RESTROOM MOUNTING HEIGHTS**  
G701 3/8" = 1'-0"



**GENERAL NOTE - ACCESSIBILITY**

A. THESE DETAILS ARE SHOWN FOR MINIMUM ACCESSIBILITY REQUIREMENTS. SEE PROJECT SPECIFIC DETAILS FOR ADDITIONAL INFORMATION. VERIFY WITH ARCHITECT ANY DIFFERENCES BEFORE PROCEEDING WITH CONSTRUCTION.

**A1 URINAL MOUNTING HEIGHT**  
G701 3/8" = 1'-0"

**A2 ACCESSIBLE SINK DETAIL**  
G701 3/8" = 1'-0"

**A3 ACCESSIBLE WALL / FLOOR MOUNTED TOILET DETAIL**  
G701 3/8" = 1'-0"

**A4 ACCESSIBLE WALL / FLOOR MOUNTED TOILET DETAIL**  
G701 3/8" = 1'-0"

**A5 ACCESSIBLE WALL / FLOOR MOUNTED TOILET DETAIL**  
G701 3/8" = 1'-0"

**A6 ACCESSIBLE WALL / FLOOR MOUNTED TOILET DETAIL**  
G701 3/8" = 1'-0"

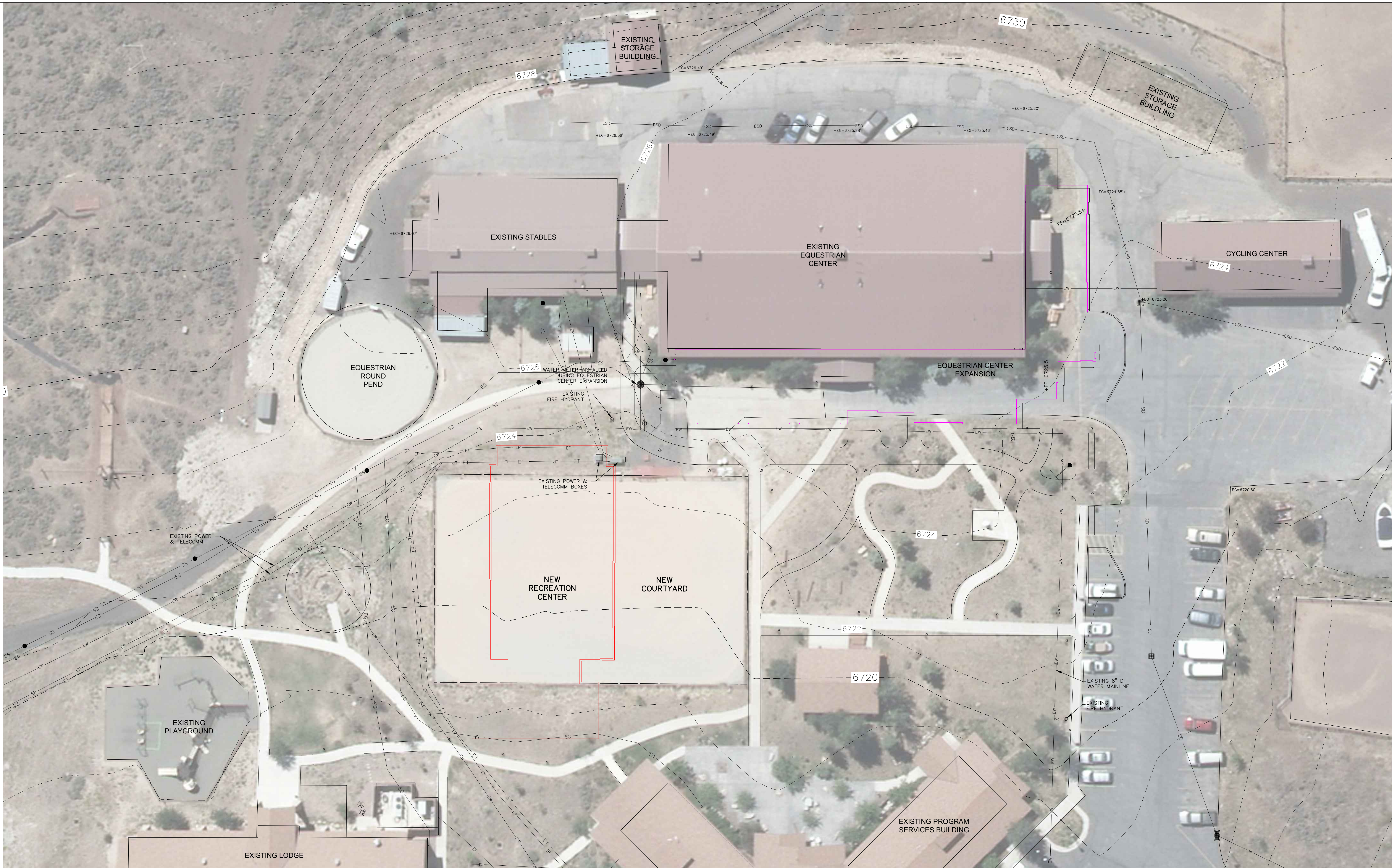
**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 18065  
CHECKED BY: KH  
DRAWN BY: AS  
DATE: 08.09.18

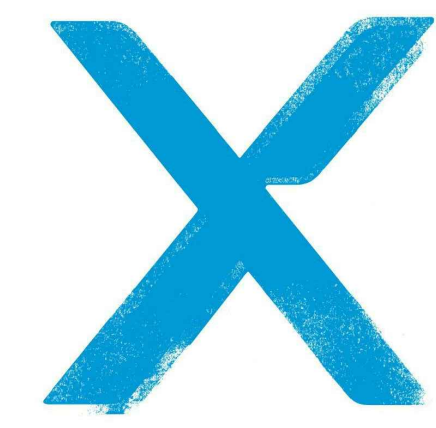
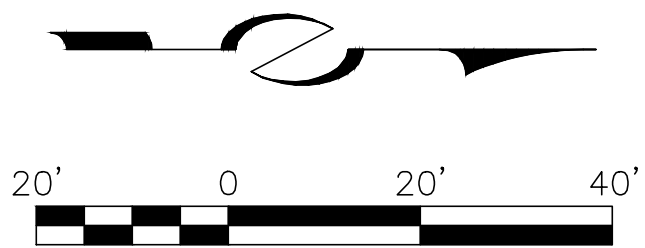
**ACCESSIBILITY COMPLIANCE**

**G701**





LEGEND			
ESS	EXISTING SEWER	SS	PROPOSED SEWER
EW	EXISTING WATER	W	PROPOSED WATER
ESD	EXISTING STORM DRAIN	SD	PROPOSED STORM DRAIN
EG	EXISTING GAS	G	PROPOSED GAS
ET	EXISTING TELECOMM	T	PROPOSED TELECOMM
EP	EXISTING POWER	P	POWER



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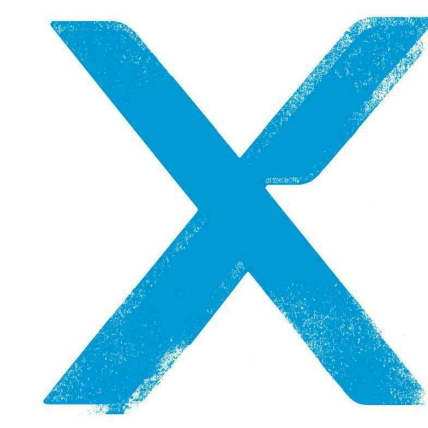
**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 18065  
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**OVERALL & EXISTING CONDITIONS**

C1



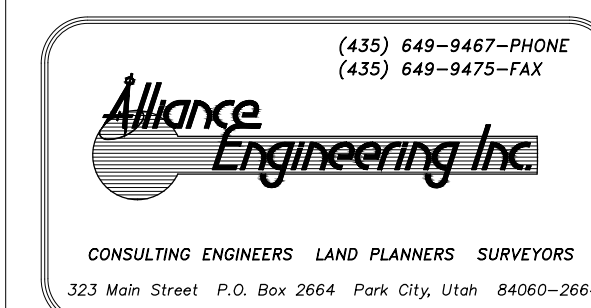


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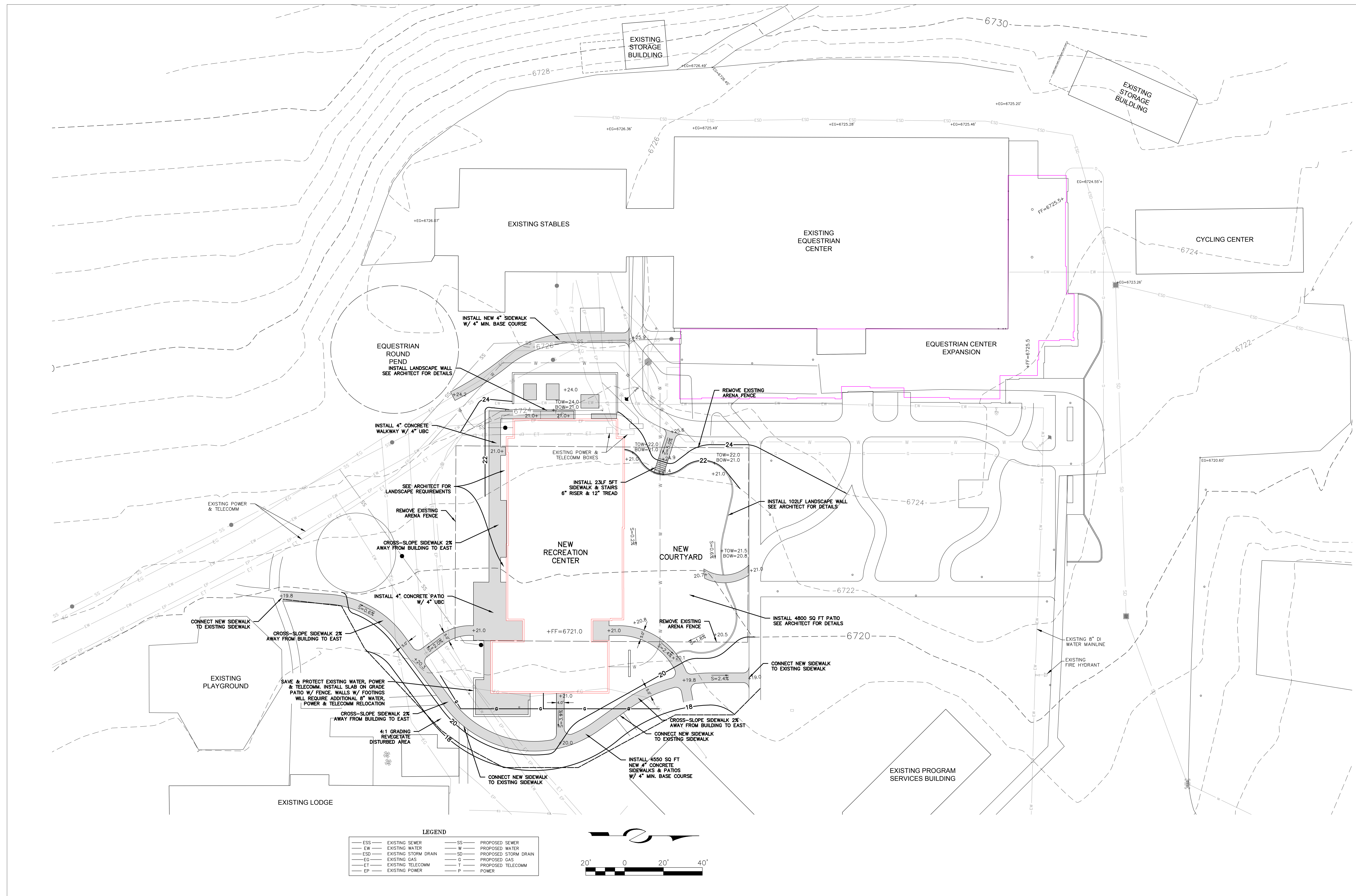
# Date Revision

**CONSTRUCTION DOCUMENTS**

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DATE: 08.09.18

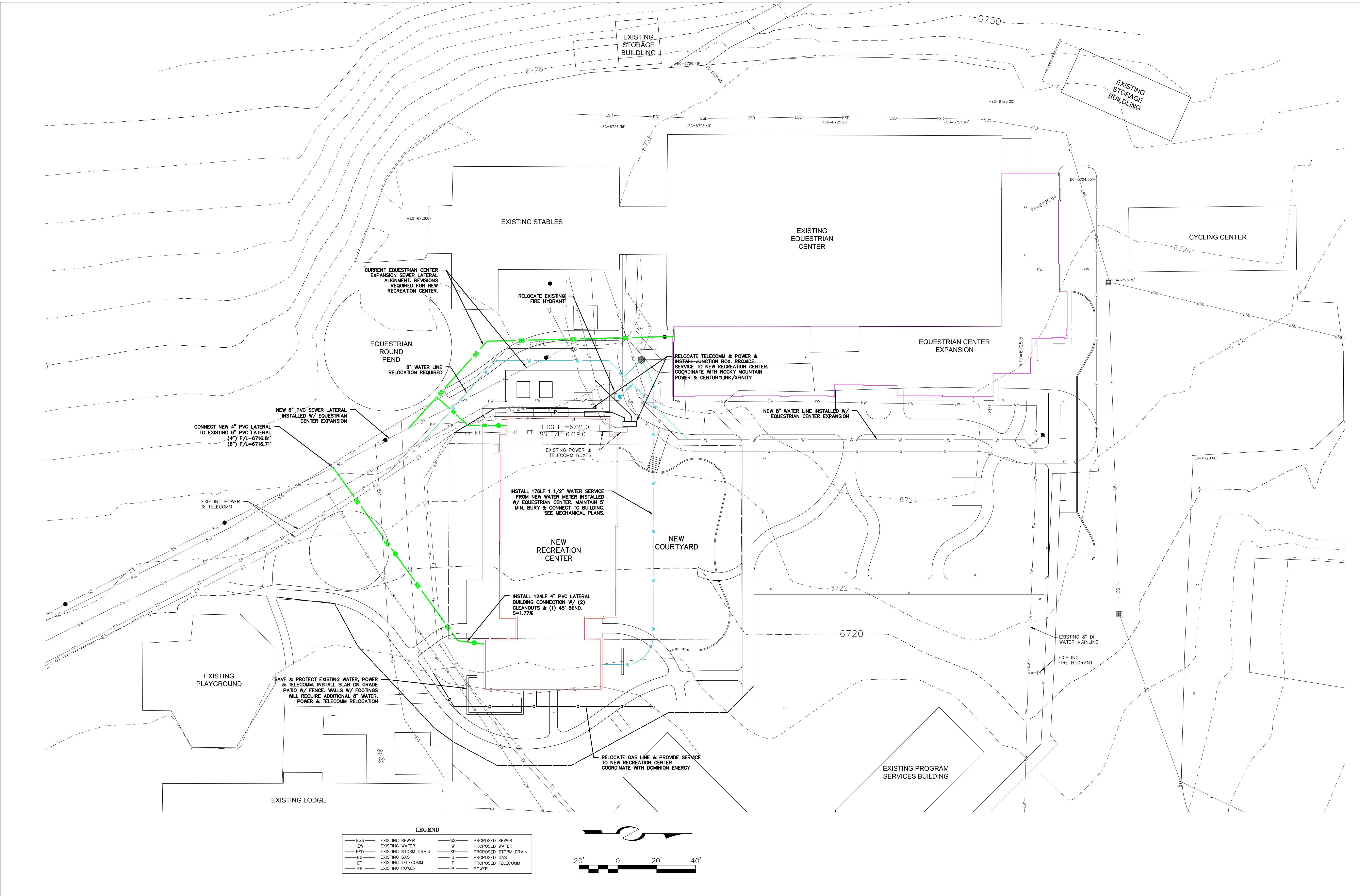
**SITE & GRADING PLAN**

**C2**

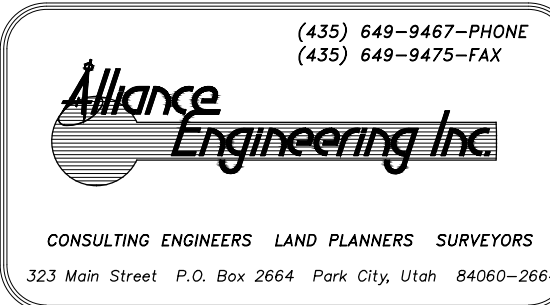




1  
2  
3  
4  
5  
6  
E  
D  
C  
B  
A



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**UTILITY PLAN**





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10000 Highway 11, Fair City, 0104000

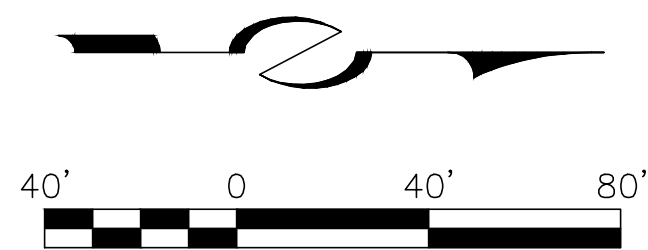
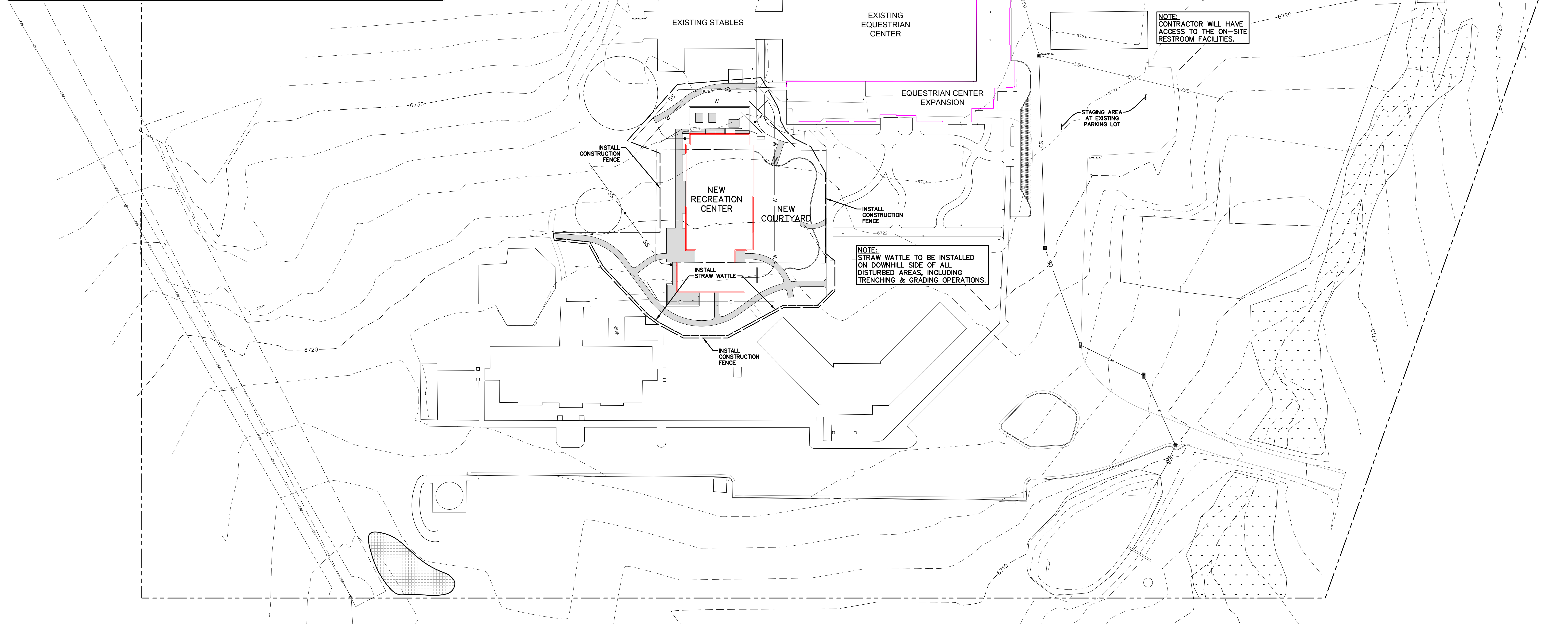


## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 18065

# CONSTRUCTION MITIGATION PLAN

# C4



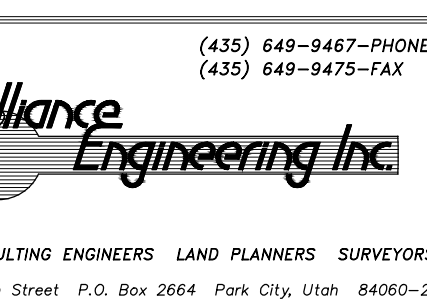




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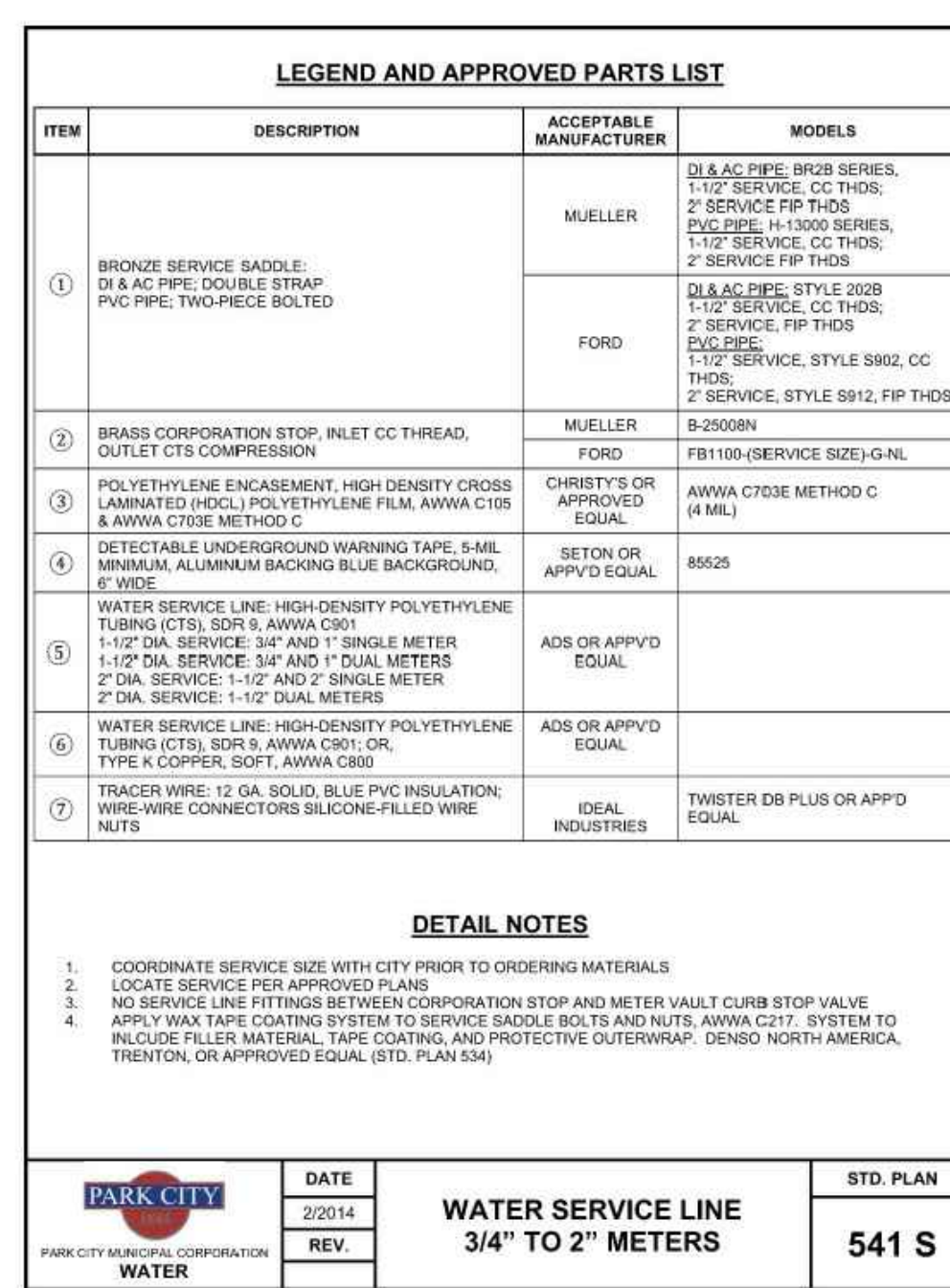
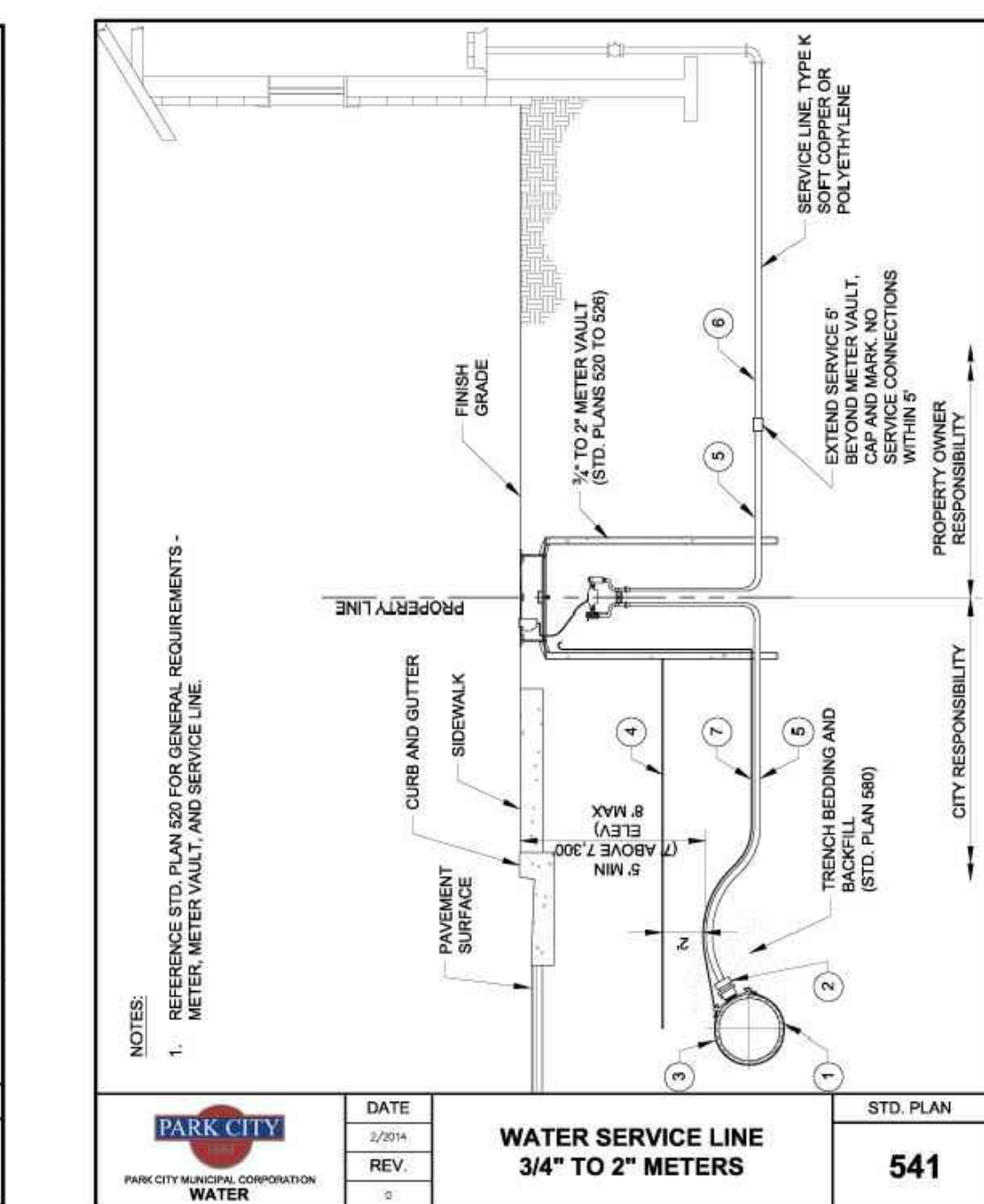
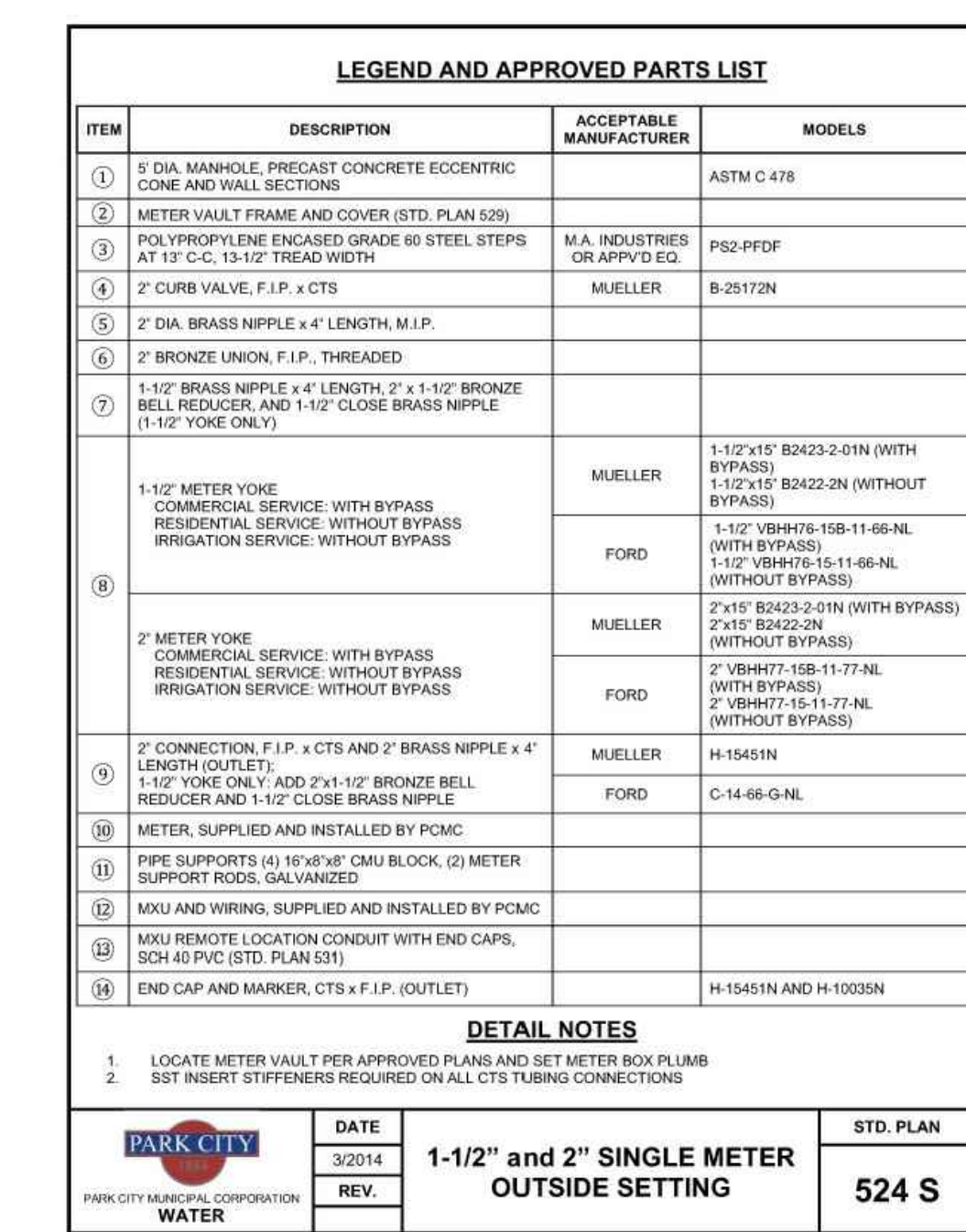
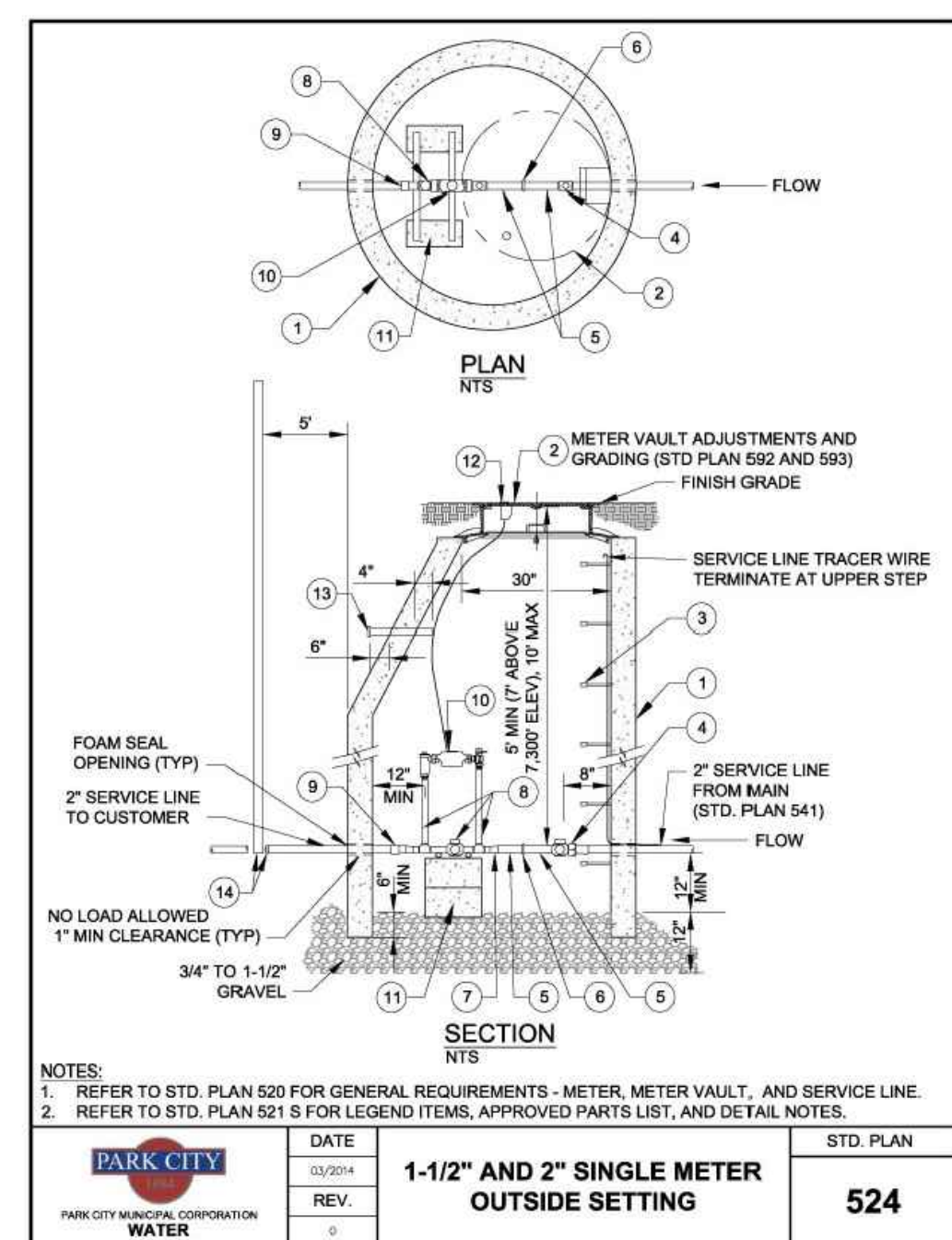
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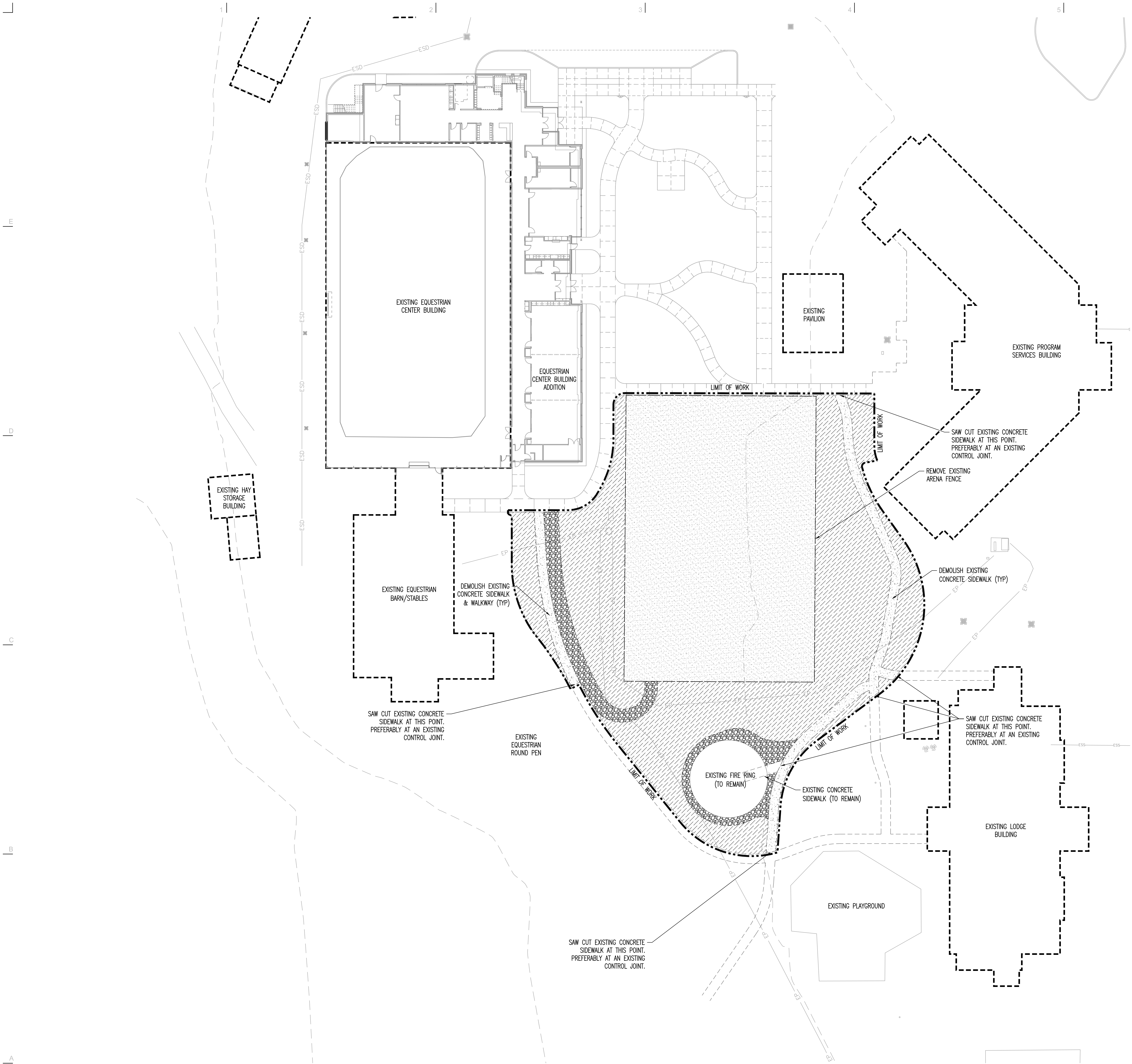
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DRAWN BY: TB  
DATE: 08.09.18

**C5**







LANDSCAPE DEMOLITION  
GENERAL NOTES:

- A. ANY DAMAGE TO EXISTING LANDSCAPED AREAS INTENDED TO REMAIN IN PLACE ARE TO BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- B. EXISTING TREES INTENDED TO REMAIN IN PLACE SHALL BE PROTECTED ACCORDING TO TREE PRESERVATION SPECIFICATION.
- C. EXISTING TREES SCHEDULED FOR DEMOLITION SHALL BE IDENTIFIED WITH FLAGGING TAPE. PAINT SHALL NOT BE USED TO IDENTIFY TREES INTENDED FOR DEMOLITION. TREES FLAGGED FOR DEMOLITION SHALL BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO ANY DEMOLITION.
- D. DEMOLITION OF TREES SHALL INCLUDE CUTTING OF TREE, MULCHING TREE MEMBERS, AND BORING STUMP TO 18" BELOW FINISH GRADE, MULCH SHALL BE DISPOSED OF LEGALLY AND LAWFULLY.

IRRIGATION DEMOLITION  
GENERAL NOTES:

- A. ALL EXISTING IRRIGATION COMPONENTS (INCLUDING BUT NOT LIMITED TO MAIN LINE AND LATERAL LINE PIPING, SHUT OFF VALVES, VALVE BOXES, WIRING, CONTROL VALVES, ROTORS, AND SPRAY HEADS) WITHIN THE LIMIT OF WORK SHALL BE COMPLETELY REMOVED.
- B. ALL EXISTING IRRIGATION COMPONENTS THAT ARE OUTSIDE OF THE LIMIT OF WORK SHALL REMAIN IN PLACE AND IN WORKING ORDER.
- C. ALL IRRIGATION COMPONENTS REMOVED, OTHER THAN PIPING, THAT ARE IN GOOD WORKING ORDER SHALL BE RETURNED TO THE OWNER.

SITE PLAN GENERAL  
NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE EXISTING AND NEW SITE CONDITIONS WITH THE DEMOLITION PLAN PRIOR TO BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE DEMOLITION PLAN. IN THE EVENT THE CONTRACTOR FAILS TO COMPARE EXISTING AND NEW SITE CONDITIONS WITH THE DEMOLITION PLAN PRIOR TO BEGINNING WORK, AND/OR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REQUIRED ALTERATIONS AND ADDITIONS TO THE DEMOLITION PLAN AT NO ADDITIONAL COST TO THE OWNER.
- B. DEMOLITION INFORMATION IS BASED UPON SURVEY INFORMATION BY THE CIVIL ENGINEER. LOCATIONS AND QUANTITIES OF ALL EXISTING SITE ELEMENTS SHALL BE FIELD VERIFIED.
- C. QUANTITIES PROVIDED ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND VERIFYING TOTAL QUANTITIES NECESSARY TO COMPLETE THE WORK AS INDICATED ON THE PLANS.
- D. DEMOLITION INCLUDES COMPLETE REMOVAL OF ALL PARTS, CONNECTIONS, FOUNDATIONS, STUMPS, ETC. ASSOCIATED WITH EACH ITEM TO BE DEMOLISHED, BOTH ABOVE AND BELOW GRADE. DEMOLITION ALSO INCLUDES LEGALLY AND LAWFULLY DISPOSING OF ALL MATERIALS OFF SITE.
- E. ANY DAMAGE TO STRUCTURES OR MATERIALS INTENDED TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- F. SEE ARCHITECTURAL, CIVIL, AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

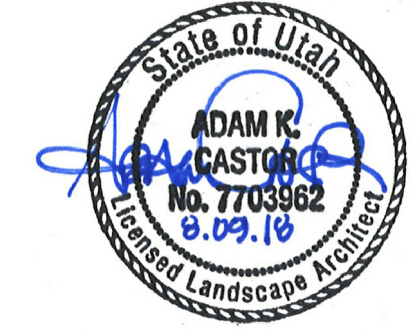
SITE DEMOLITION PLAN  
LEGEND:

- EXISTING CONCRETE PAVING TO BE REMOVED (1,882 SQ.FT.)
  - EXISTING LANDSCAPE AREA TO BE REMOVED (14,725 SQ. FT\*)
  - EXISTING RIDING ARENA AREA TO BE REMOVED (15,077 SQ. FT\*)
  - EXISTING GRAVEL EDGE TO BE REMOVED (1,884 SQ. FT\*)
- \*INCLUDES EXISTING TURF, PLANTER BED AREAS, AND PLANT MATERIALS



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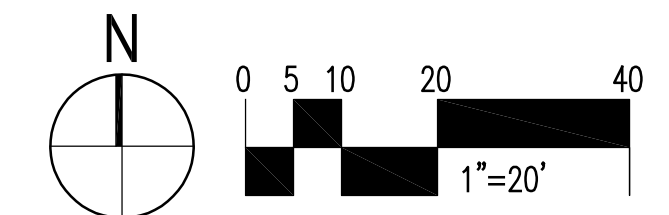
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CONSTRUCTION  
DOCUMENTS

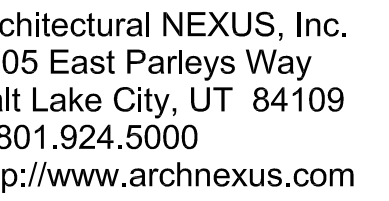
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CHECKED BY: AKC  
DRAWN BY: AKC  
DATE: 08.09.18

SITE  
DEMOLITION  
PLAN

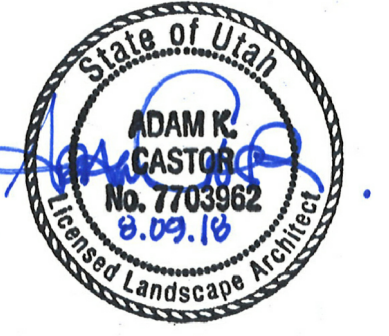


DS101










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1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER.
2. COORDINATE ALL UTILITY CROSSING INCLUDING; STORM DRAINS, WATER, AND GAS LINES. COORDINATE DEMO WORK AND SCHEDULING WITH LANDSCAPE ARCHITECT AND CIVIL ENGINEER.
3. PROTECT CONCRETE WALKWAY & SIDEWALK TO REMAIN AS INDICATED IN THE DRAWINGS.
4. SEE CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR MORE INFORMATION.

Site Plan Legend	
Symbol	Description
	PROPOSED CONCRETE PAVING (4,618.0 SQ.FT.)
	PROPOSED LANDSCAPE AREA -- NATIVE AND WATER-WISE TREES, SHRUBS, GRASSES, AND WILDFLOWERS (7,072.0 SQ.FT.)
	PROPOSED TURFGRASS AREA (11,524 SQ.FT.)
	LANDSCAPE DRIP EDGE -- 2"-3" DECORATIVE CORBBLE ROCK WITH 4" STEEL EDGING (309 SQ.FT.)
	MECHANICAL EQUIPMENT YARD SURFACE 2"-3" DECORATIVE CORBBLE ROCK (861 SQ.FT.)

SECTION A - CAST-IN-PLACE

- |    |                           |
|----|---------------------------|
| A1 | CONCRETE MOW CURB (6"x6") |
| A2 | CONCRETE LANDING          |
| A3 | CONCRETE WALKWAY          |
| A4 | CONCRETE SIDEWALK         |
| A5 | CONCRETE STAIR            |
| A6 | CONCRETE PAD              |
| A7 | CONCRETE RETAINING WALL   |
| A8 | LANDSCAPE DRIP EDGE       |

- |                                    |                          |       |
|------------------------------------|--------------------------|-------|
| <u>SECTION B - CONCRETE JOINTS</u> |                          | ----- |
| B1                                 | CONTROL JOINT            | ----- |
| B2                                 | EXPANSION JOINT          | ----- |
| B3                                 | EXPANSION JOINT W/ DOWEL | ----- |

- SECTION C - STRUCTURES

- SECTION D – SITE FURNISHINGS
- D1) WAYFINDING SIGNAGE

- SECTION E - MISCELLANEOUS
- E1) DOWNSPOUT FRENCH DRAIN
- E2) STEEL HANDRAIL

Date	Revision

EXUS PROJ. #: 1806  
CHECKED BY: AKC  
DRAWN BY: AKC  
DATE: 08.09.1

## ARCHITECTURAL SITE PLAN

# AS101



MATERIALS AND FINISH SCHEDULE							
SECTION A – CAST-IN-PLACE	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
A1	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	6"x6" CONCRETE MOW CURB WITH REBAR REINFORCEMENT AND ROUNDED EDGES		SEE CIVIL
A2	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE LANDING AT BOTTOM OF STAIRS – 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS		A6 AS701
A3	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE WALKWAY – 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS		A6 AS701
A4	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE SIDEWALK – 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS		A6 AS701
A5	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE STAIRS – REBAR REINFORCED WITH 12" TREADS, 6" RISERS, AND EMBEDDED STAIR NOSINGS		A3, E4 AS701
A6	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE PAD – REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS (COORDINATE THICKNESS WITH MECHANICAL AND ELECTRICAL)		SEE MECHANICAL SEE ELECTRICAL
A7	AS APPROVED	N/A	BOARD FORM	STANDARD GRAY	CONCRETE RETAINING WALL – 8" THICK WITH REBAR REINFORCEMENT AND BOARD FORM FINISH		B2 AS701
A8	AS APPROVED	N/A	NATURAL/MILL	AS APPROVED	LANDSCAPE DRIP EDGE – 2"-3" DECORATIVE COBBLE ROCK WITH 4" STEEL EDGING		C6 LP701
SECTION B – CONCRETE JOINTS	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
B1	AS APPROVED	N/A	N/A	N/A	CONTROL JOINT – SAWCUT		B6 AS701
B2	AS APPROVED	N/A	N/A	N/A	EXPANSION JOINT		C6 AS701
B3	AS APPROVED	N/A	N/A	N/A	EXPANSION JOINT WITH DOWEL		D6 AS701
SECTION C – STRUCTURES	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
C1	AS APPROVED	N/A	SMOOTH FORM	STANDARD GRAY	MECHANICAL EQUIPMENT SCREEN WALL		SEE ARCHITECTURAL
SECTION D – SITE FURNISHINGS	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
D1	AS APPROVED	N/A	LIGHT BROOM	STANDARD GRAY	CONCRETE WAYFINDING SIGN APRON (SIGNAGE NOT IN CONTRACT, PROVIDED BY OWNER)		E6 AS701
SECTION E – MISCELLANEOUS	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
E1	AS APPROVED	N/A	AS APPROVED	AS APPROVED	TRENCH DRAIN – 4" PERFORATED PIPE IN GRAVEL TRENCH (CONNECT TO BUILDING DOWNSPOUTS)		A1 AS701
E2	AS APPROVED	N/A	PAINTED	BLACK	1 1/2" DIA. STEEL HANDRAIL WITH WELDED SKATE DETERRENTS. EMBEDDED MOUNT INTO CONCRETE STAIRS.		A3, E3 AS701



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NEXUS PROJ. #: 18065  
CHECKED BY: AKC  
DRAWN BY: ZYN  
DATE: 08.09.18

SITE IMPROVEMENTS  
MATERIALS AND  
FINISHES SCHEDULE

AS601

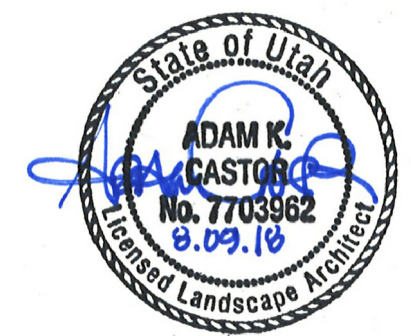




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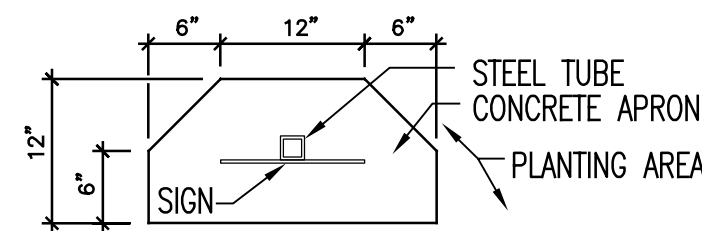
# Date Revision

CONSTRUCTION DOCUMENTS

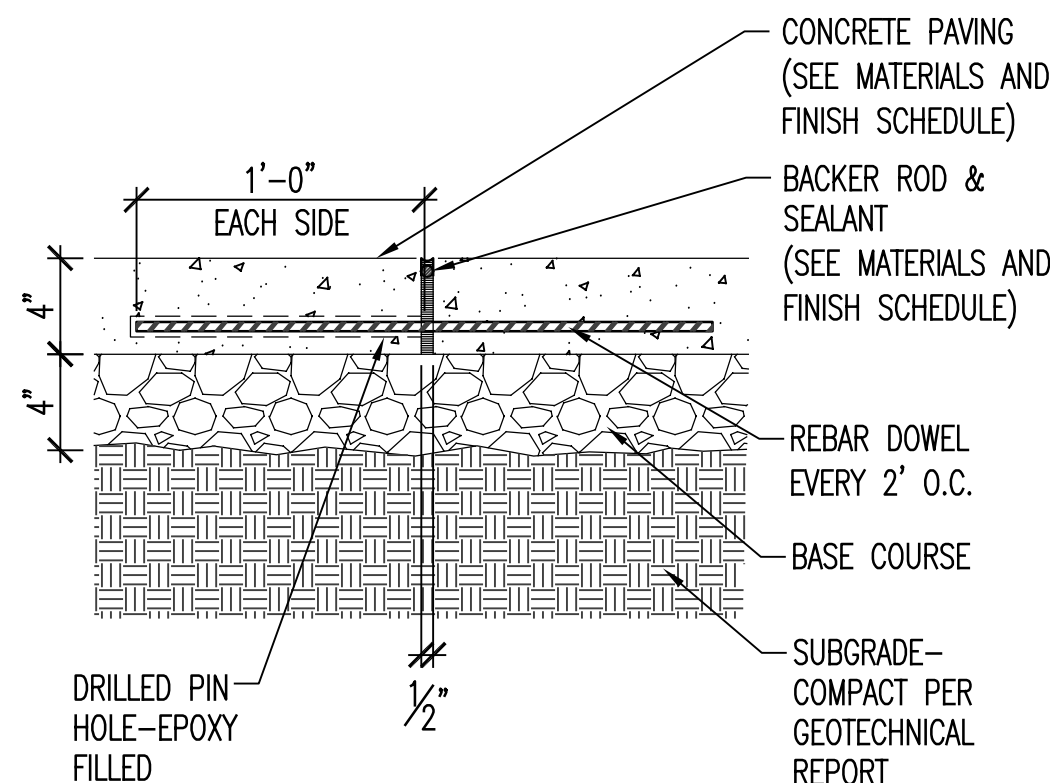
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CHECKED BY: AKC  
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DATE: 08.09.18

SITE DETAILS

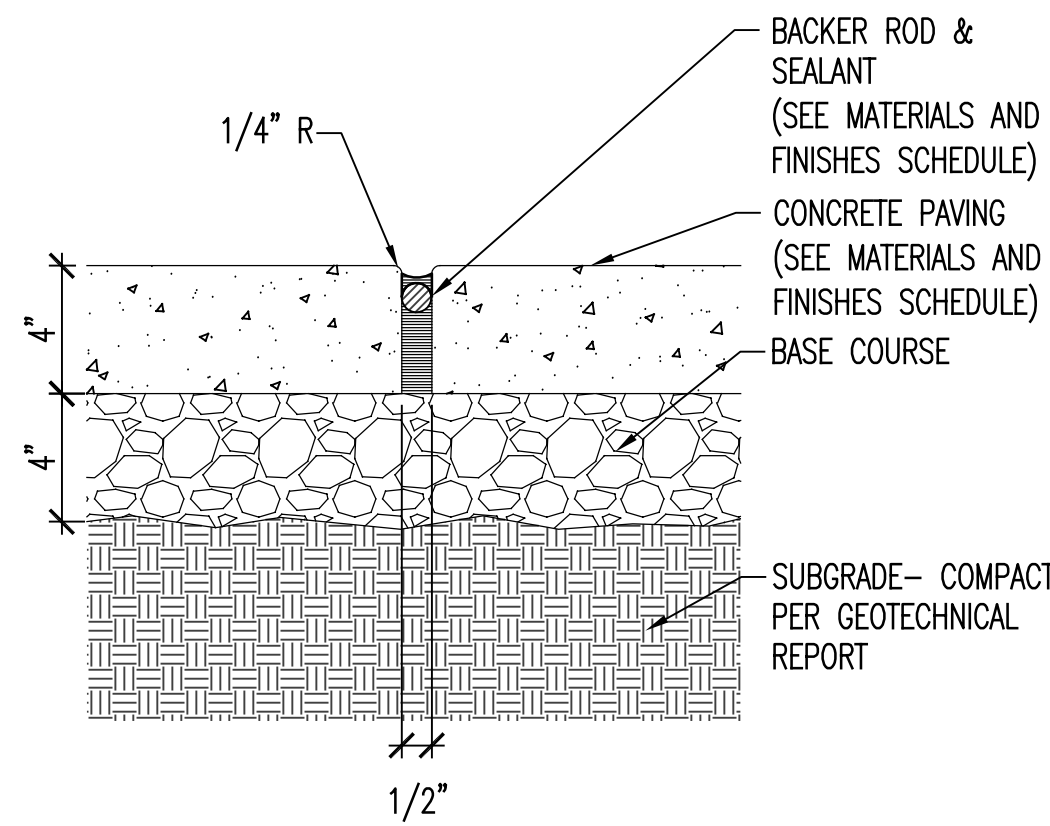
AS701



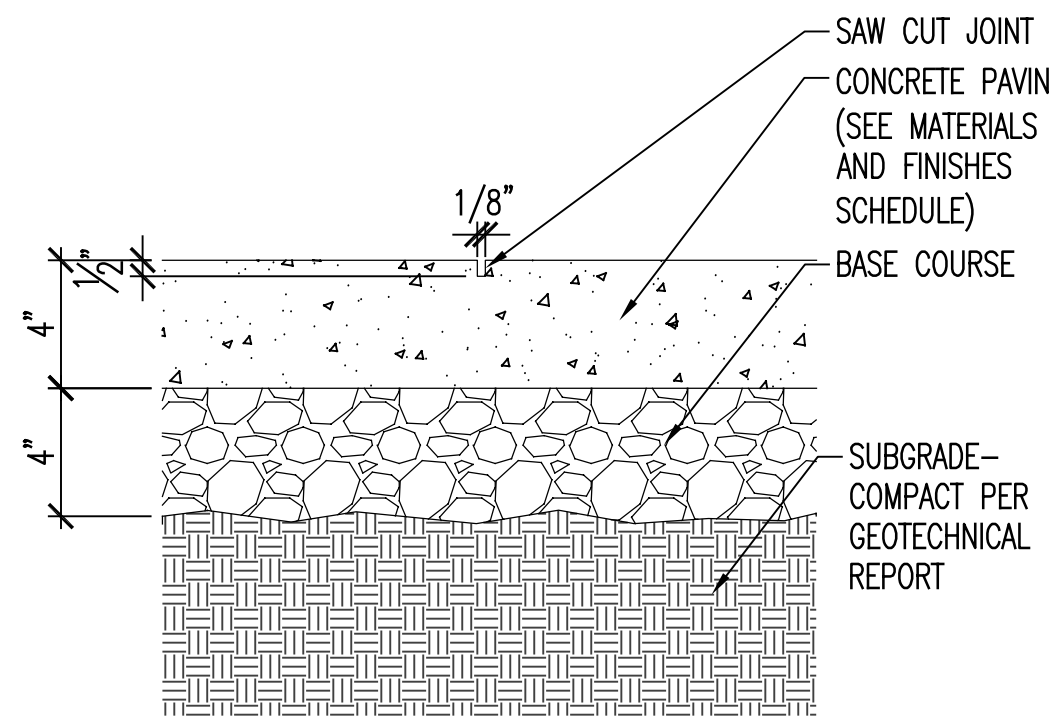
E6 WAYFINDING SIGN APRON  
AS701 SCALE: 3/4" = 1'-0"



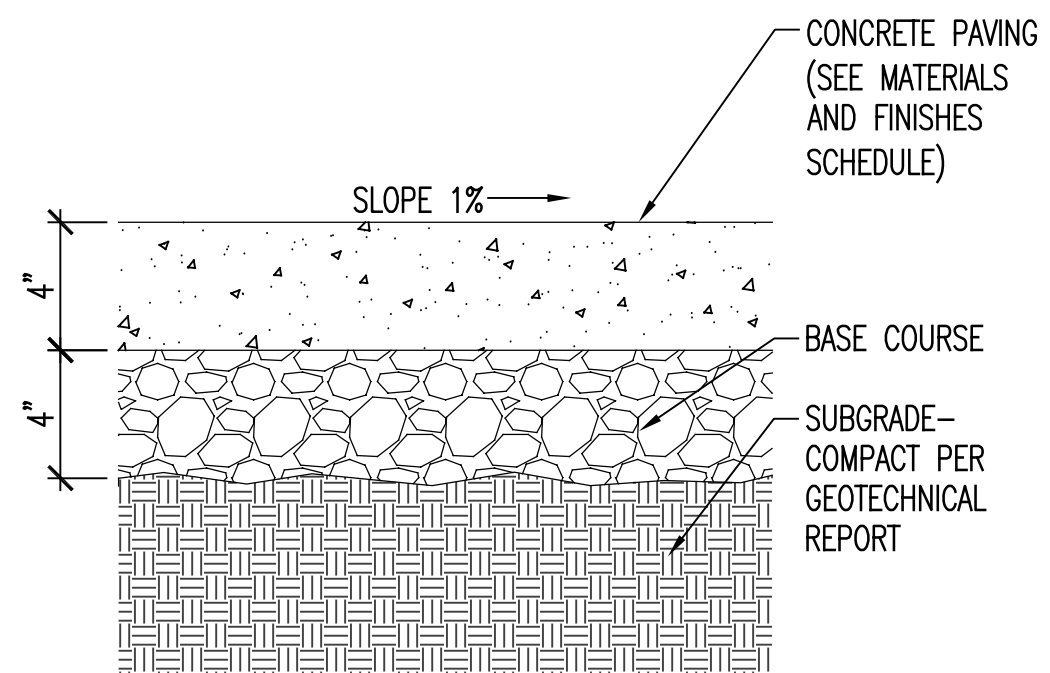
D6 EXPANSION JOINT W/ DOWEL  
AS701 SCALE: 1 1/2" = 1'-0"



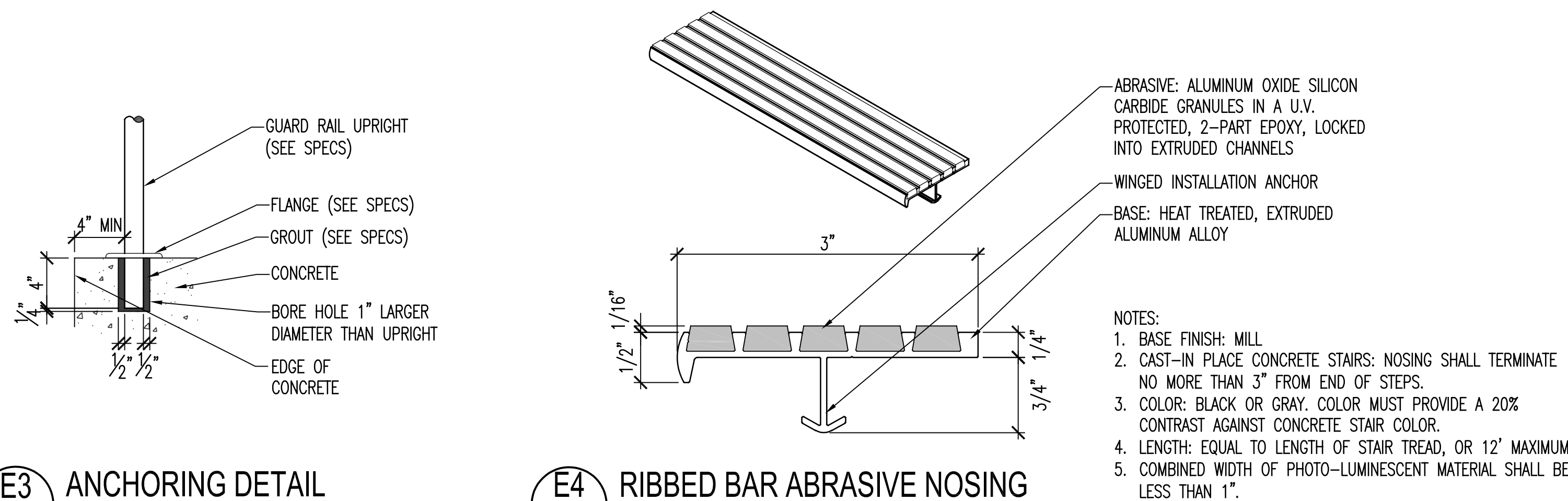
C6 EXPANSION JOINT  
AS701 SCALE: 2" = 1'-0"



B6 SAW CUT CONTROL JOINT  
AS701 SCALE: 2" = 1'-0"

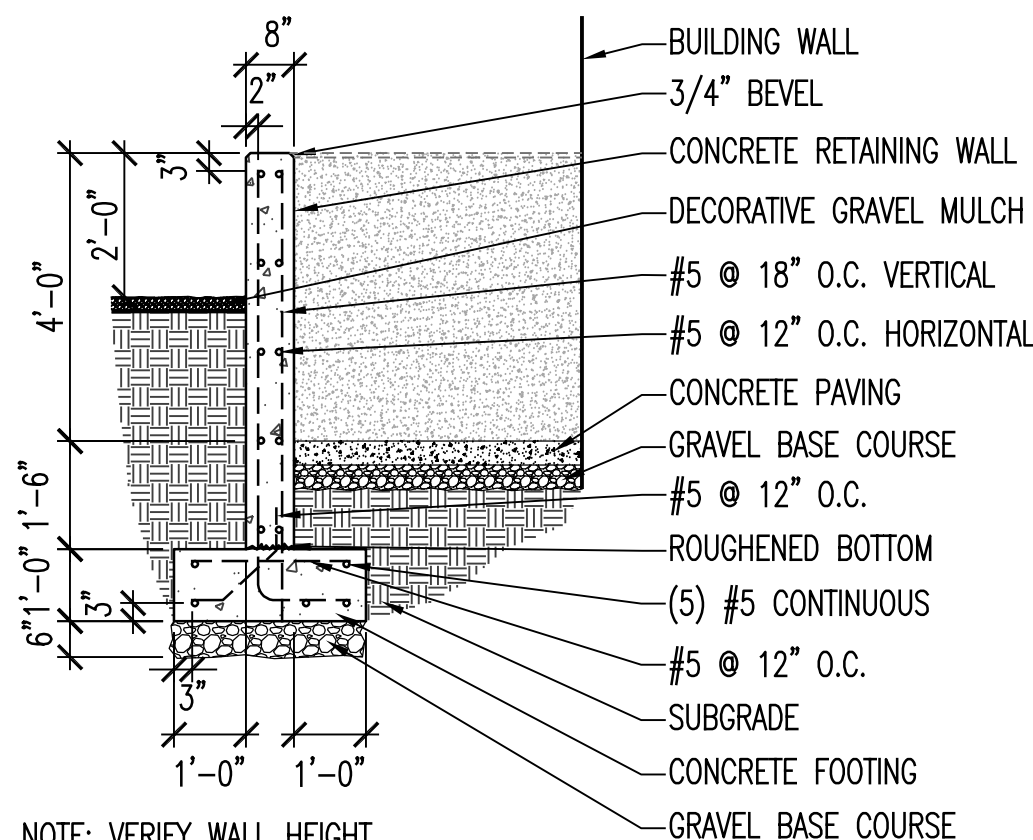


A6 CONCRETE PAVING  
AS701 SCALE: 2" = 1'-0"

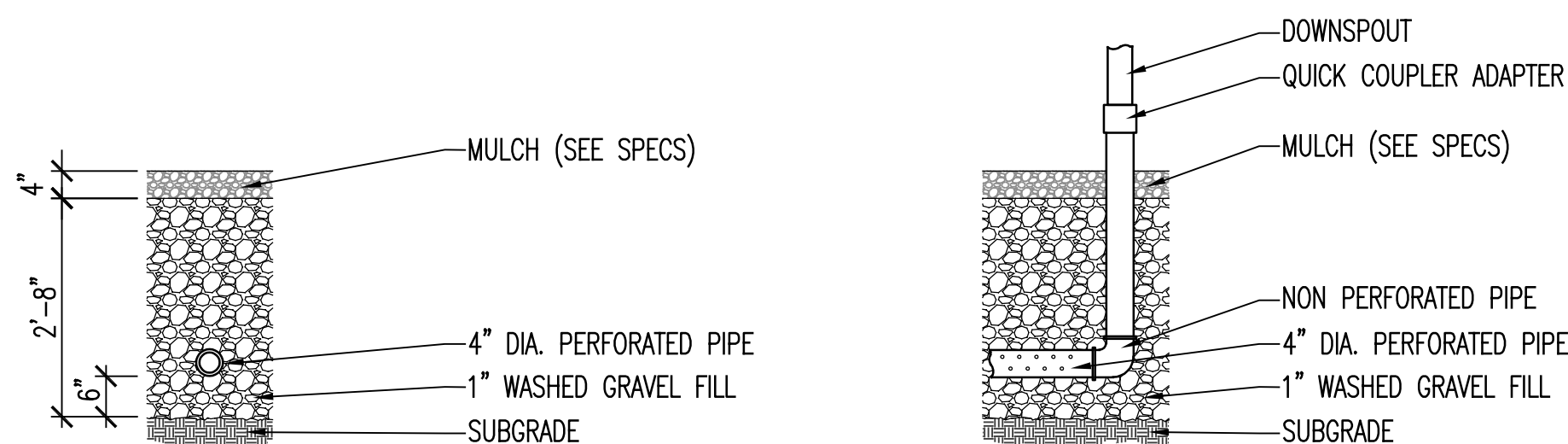


E3 ANCHORING DETAIL  
AS702 SCALE: 1 1/2" = 1'-0"

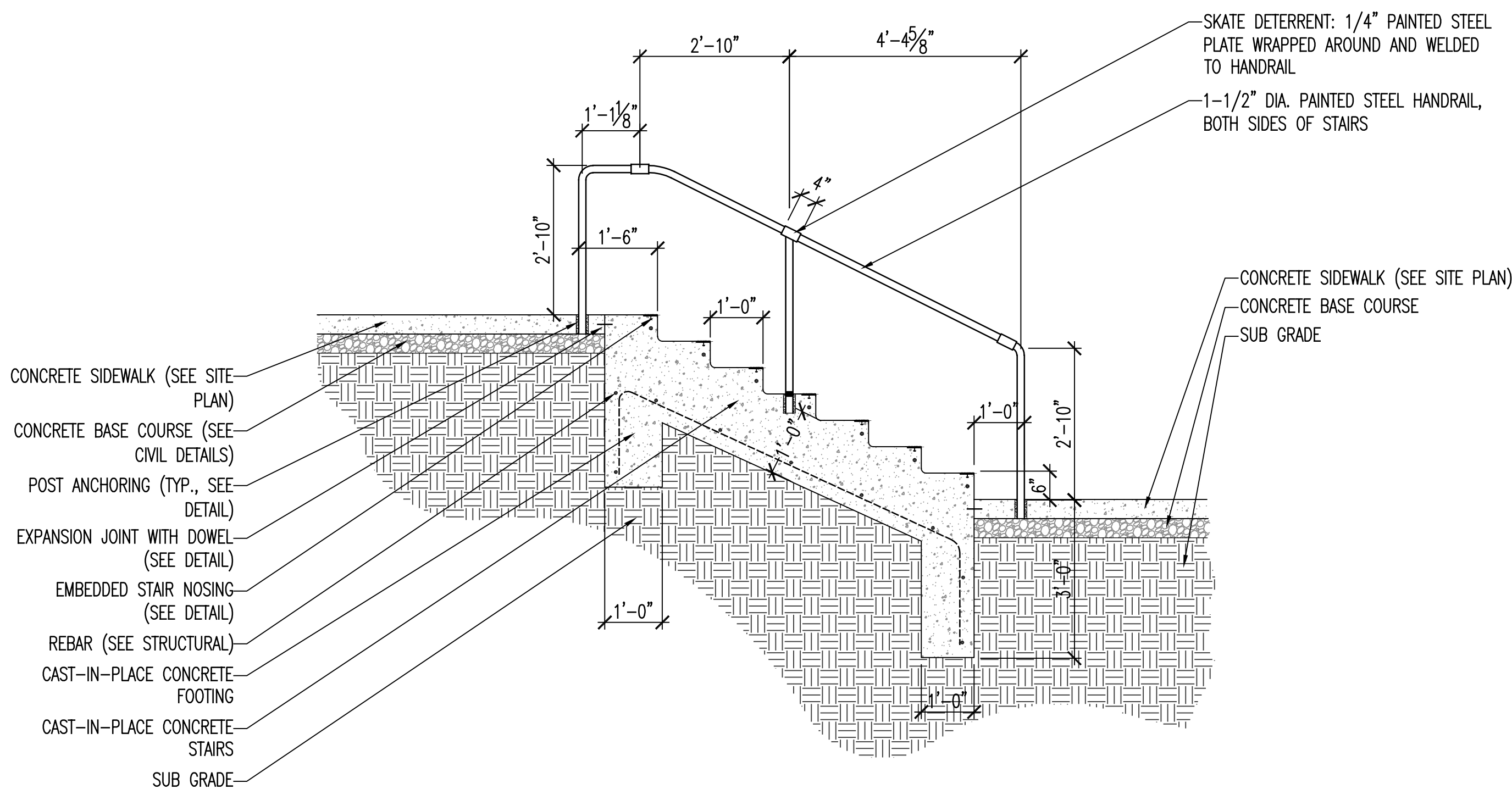
E4 RIBBED BAR ABRASIVE NOSING  
AS702 SCALE: 1'-0" = 1'-0"



B2 RETAINING WALL SECTION  
AS701 SCALE: 3/8" = 1'-0"

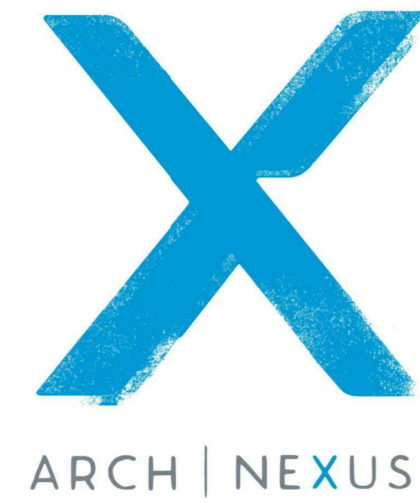


A1 FRENCH DRAIN & PLANTER  
AS701 SCALE: 1/2" = 1'-0"



A3 CONCRETE STAIRS WITH HANDRAIL  
AS701 SCALE: 1/2" = 1'-0"





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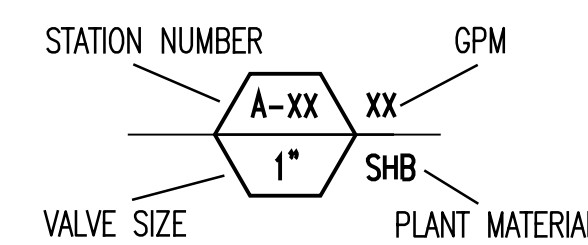
NATIONAL ABILITY CENTER  
**RECREATION CENTER**  
1000 ABILITY WAY  
PARK CITY, UTAH 84060

## IRRIGATION CONSTRUCTION NOTES:

- VERIFY THE STATIC WATER PRESSURE AT THE POINT OF CONNECTION LOCATION AND VERIFY PRESSURE IS SUFFICIENT TO MEET NEW IRRIGATION SYSTEM PRESSURE LOSSES.
- AT THE POINT OF CONNECTION  
INSTALL (1) 2" CURB VALVE, (1) 1 1/2" BACKFLOW PREVENTION DEVICE, (2) 3/4" DRAIN VALVES, (1) 2" NORMALLY OPEN MASTER VALVE, (1) 1" FLOW SENSOR AND (1) 1" QUICK COUPLING VALVE. EXTEND PRESSURE SUPPLY LINE AS INDICATED ON PLAN AND AS SHOWN IN TRENCHING DETAILS.
- COORDINATE LOCATION AND INSTALLATION OF ALL SLEEVES AND CONDUITS AS SHOWN ON THE IRRIGATION PLAN PRIOR TO INSTALLATION OF ASPHALT AND CONCRETE PAVING (SEE TRENCH DETAILS).
- INSTALL MANUAL DRAIN VALVES AT THE ENDS OF MAIN LINE BRANCHES (SEE LEGEND).

## IRRIGATION GENERAL NOTES:

- THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE A PEAK DEMAND OF 10 GPM, BASED ON HISTORICAL ET<sub>o</sub> RATES, AND AN ACTUAL HIGH FLOW RATE OF 41.88 GPM. TOTAL SYSTEM PRESSURE LOSSES ARE 73.06 PSI (SEE SHEET LI601).
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE STATIC WATER PRESSURE AT THE POINT OF CONNECTION PRIOR TO BEGINNING WORK AND INFORMING THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ACTUAL STATIC WATER PRESSURE AT THE POINT OF CONNECTION AND THE TOTAL SYSTEM PRESSURE LOSSES. WATER PRESSURE DISCREPANCIES SHALL BE NOTED ON CONTRACTOR COMPANY LETTERHEAD AND SUBMITTED TO THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK. IN THE EVENT THE CONTRACTOR FAILS TO VERIFY AND CONFIRM STATED VERSUS ACTUAL STATIC WATER PRESSURE PRIOR TO BEGINNING WORK AND DISCREPANCIES DO IN FACT EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL MODIFICATIONS TO THE IRRIGATION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- THE IRRIGATION CONTROLLER SHALL BE LOCATED ON THE UTILITY ENCLOSURE SCREEN WALL ON THE WEST SIDE OF THE BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND PROVIDING POWER TO THE CONTROLLER. IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE POWER TO THE CONTROLLER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AN ALL MODIFICATIONS TO CONSTRUCTION WORK AT NO ADDITIONAL COST TO THE OWNER.
- POINT OF CONNECTION COMPONENTS SHALL BE CONNECTED TO THE AUTOMATIC CONTROLLER IN SEPARATE CONDUITS AND AS INSTRUCTED BY THE MANUFACTURER.
- IRRIGATION CONTROL VALVES SHALL BE CONNECTED TO THE AUTOMATIC CONTROLLER WITH DIRECT BURIAL, CONVENTIONAL WIRING.
- ALL PLANTER AREAS SHALL BE IRRIGATED WITH POINT SOURCE DRIP IRRIGATION.
- IRRIGATION ZONES ARE IDENTIFIED WITH THE FOLLOWING SYMBOL:



## EMITTER SCHEDULE:

PLANT SIZE	EMITTER GPH	QTY. PER PLANT
1 GAL	1	1
5 GAL	5	1
TREE	.26	24

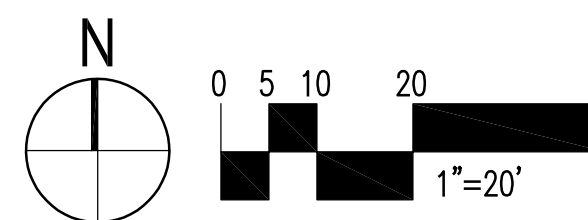
WHERE MORE THAN ONE EMITTER IS REQUIRED FOR PLANT, SPACE EMITTERS EQUIDISTANT AROUND ROOTBALL

# Date Revision

## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 18065  
CHECKED BY: AKC  
DRAWN BY: ZYN  
DATE: 08.09.18

## IRRIGATION PLAN



LI101






































1  
2  
3  
4  
5  
6  
E  
D  
C  
B  
A

National Ability Center - Recreation Center												
Meter # N/A												
Meter Account # N/A												
07-Aug-18												
Reference Evapotranspiration Eto		Crop Coefficients Kc						Et Adjust Factor	Projected Water Use In Gallons Based On Eto	Projected Water Use In Acre Feet Based On Eto	Projected Water Use in HCF Based On Eto	Projected Water Use In GPM Based on Eto
Month	Hist Eto	Cool Season Turf	Warm Season Turf	Ornamental Shrubs	Ornamental Grasses	Native Shrubs	Perennials & Annuals					
Jan	0.80	0.61	0.55	0.18	0.18	0.18	0.61	1.0		0.00	0	0
Feb	1.20	0.64	0.54	0.19	0.19	0.19	0.64	1.0		0.00	0	0
Mar	2.10	0.75	0.78	0.23	0.23	0.23	0.75	1.0		0.00	0	0
Apr	3.50	1.04	0.72	0.31	0.31	0.31	1.04	1.0	46244	0.07	62	5
May	4.90	0.95	0.79	0.29	0.29	0.29	0.95	1.0	59139	0.18	79	6
June	6.60	0.88	0.68	0.26	0.26	0.26	0.88	1.0	73787	0.23	99	8
July	7.70	0.94	0.71	0.28	0.28	0.28	0.94	1.0	91954	0.28	123	10
Aug	6.80	0.86	0.71	0.26	0.26	0.26	0.86	1.0	74295	0.23	99	8
Sept	4.80	0.74	0.62	0.22	0.22	0.22	0.74	1.0	45126	0.14	60	5
Oct	2.80	0.75	0.54	0.23	0.23	0.23	0.75	1.0	26679	0.08	36	3
Nov	1.30	0.69	0.58	0.21	0.21	0.21	0.69	1.0		0.00	0	0
Dec	0.70	0.60	0.55	0.18	0.18	0.18	0.60	1.0		0.00	0	0
Annual	43.20	9.45	7.77	2.84	2.84	2.84	9.45	1.0	417222	1.21	558	45

ESTIMATED IRRIGATED LANDSCAPED AREA:				CROP COEFFICIENTS:				ESTIMATED DISTRIBUTION OF UNIFORMITY:			
Cool Season Turfgrass:	11,524	square feet		High Water Use:	.70 to .90			Drip Applications	0.8		
Warm Season Turfgrass:	0	square feet		Moderate Water Use:	.40 to .60			Rotor Applications	0.7		
Ornamental Shrubs	0	square feet		Low Water Use:	.10 to .30			Spray Applications	0.65		
Ornamental Grasses	0	square feet		Very Low Water Use:	.01 to .09						
Native Shrubs	7072	square feet									
Perennials and Annuals	0	square feet									
	18596			0.43	acres	#REF!		per acre culinary water			

\* Reference Eto data obtained from Jordan Valley Water conservancy District  
\*\* Crop Coefficients Obtained from University of California Cooperative Extension, California Turfgrass Culture Volume 47, Nos. 3 & 4, 1997  
\*\*\* Crop Coefficients Obtained from Water Use Classification of Landscape Species III University of California Cooperative Extension, 2000

HYDRAULIC ANALYSIS									
FOR #18065									
National Ability Center - Recreation Center									
Meter # N/A									
Meter Account # N/A									
07-Aug-18									
**EQUIPMENT:	CLASS:	SIZE:	LOSS:	/100	LENGTH:	****GPM:	PSI LOSS:		
SERVICE LINE:	SCH 40	2"	1.32	0.10	10	@	42	0.13	
WATER METER:	N/A	N/A	N/A	N/A	N/A	@	42	0	
BACKFLOW PREVENTION DEVICE:	N/A	1 1/2"	N/A	N/A	N/A	@	42	13	
MASTER VALVE:	N/A	1 1/2"	N/A	N/A	N/A	@	42	1.8	
FLOW SENSOR:	N/A	1"	N/A	N/A	N/A	@	42	1.5	
PRESSURE SUPPLY LINE:	SCH 40	2"	1.32	2.10	210	@	42	2.77	
LATERAL LINE:	SCH 40	2"	1.32	1.03	103	@	42	1.36	
LATERAL LINE:	SCH 40	1 1/2"	2.42	0.28	28	@	30	0.68	
LATERAL LINE:	SCH 40	1"	3.69	1.01	101	@	12	3.73	
LATERAL LINE:	SCH 40	3/4"	4.92	0.70	70	@	7	3.16	
ELECTRIC CONTROL VALVE:	N/A	1 1/2"	N/A	N/A	N/A	@	42	3.50	
FITTINGS:	N/A	N/A	N/A	N/A	N/A	@	25	3.16	
SUBTOTAL:								34.79	
***ELEVATION:								FEET:	
at highest point within point of connection:								6720	
at meter:								6724	
SUBTOTAL:								-1.73	
**PSI REQUIRED @ HEAD:								40.00	
TOTAL SYSTEM LOSSES:								73.06	
*STATIC WATER PRESSURE:								0.00	
10% OF STATIC WATER PRESSURE:								0.00	
STATIC WATER PRESSURE AVAILABLE FOR IRRIGATION USE:								0.00	
STATIC WATER PRESSURE LESS TOTAL SYSTEM LOSSES:								-73.06	
****BOOSTER PUMP REQUIREMENTS	None								

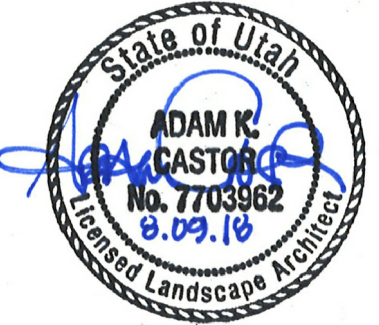
IRRIGATION LEGEND							
SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION	RADIUS	P.S.I.	G.P.H.	DETAIL #
	HUNTER	PROS40, MP2000-90-Q	SPRAY NOZZLE ON 4" POP-UP	13-21'	40	.4	E5 L1703
	HUNTER	PROS40, MP2000-90-H	SPRAY NOZZLE ON 4" POP-UP	13-21'	40	.74	E5 L1703
	HUNTER	PROS40, MP2000-360	SPRAY NOZZLE ON 4" POP-UP	13-21'	40	1.47	E5 L1703
	HUNTER	PROS40, MP3000-90-Q	SPRAY NOZZLE ON 4" POP-UP	22-30'	40	.86	E5 L1703
	HUNTER	PROS40, MP3000-90-H	SPRAY NOZZLE ON 4" POP-UP	22-30'	40	1.82	E5 L1703
	HUNTER	PROS40, MP3000-360	SPRAY NOZZLE ON 4" POP-UP	22-30'	40	3.64	E5 L1703
	HUNTER	PROS40, MP3500-90-Q	SPRAY NOZZLE ON 4" POP-UP	33-35'	40	1.28	E5 L1703
	HUNTER	PROS40, MP3500-90-H	SPRAY NOZZLE ON 4" POP-UP	33-35'	40	2.86	E5 L1703
	NETAFIM	TLCV26-12-XX	TREE RING FOR PROPOSED TREES	25	N/A		E6 L1703
			PRESSURE COMPENSATING DRIP TUBING				
			POINT OF CONNECTION				E6 L1701
	MUELLER	MARK II ORISEAL H-10284	2" CURB VALVE (STOP AND WASTE)				A5 L1701
	FEBCO	825YA	1 1/2" BACKFLOW PREVENTION DEVICE				A3 L1701
	STRONGBOX	SBBC-22AL	ALUMINUM BACKFLOW ENCLOSURE				A3 L1701
	STRONGBOX	PBB-15	POLAR BEARIER LOCKING INSULATED COVER				A3 L1701
	GRISWOLD	2160-K	2" NORMALLY OPEN MASTER VALVE WITH SOLENOID (CONNECTION TO CONTROLLER WITH PAIGE SHIELDED WIRE IN SEPERATE CONDUIT)				A1 L1701
	CTS	FS-T10-000	1" TEE TYPE PVC FLOW SENSOR				C5 L1701
	HUNTER	HQ-44LRC	QUICK COUPLER VALVE				C1 L1701
	NIBCO	T-FP-600A	BRASS BALL VALVE, LINE SIZE (VALVE MANIFOLD)				C3 L1701
	MUELLER	MARK II ORISEAL	3/4" MANUAL DRAIN BALL VALVE				A5 L1702
	RAINBIRD	ESP-12LXMEF	12 STATION EXPANDABLE CONTROLLER WITH FLOW SMART MODULE IN STAINLESS STEEL WALL MOUNT ENCLOSURE				A1 L1703
	RAINBIRD	PEB-PRS-D	PRESSURE REGULATING ELECTRIC CONTROL VALVE				A3, C2 L1703
	RAINBIRD	XCZ-075-PRF	LOW FLOW CONTROL VALVLE, DRIP KIT				A2, C2, L1702
	NETAFIM	TLSOV	MANUAL SHUT OFF VALVE FOR FLUSH ASSEMBLY				D1 L1702
	SPEARS	PVC SCH 40	3/4" SLIP X SLIP COUPLER OR ELL				
	NETAFIM	TLCV001	17MM BLANK DRIP TUBING FOR POINT SOURCE EMITTERS				D5 L1703
	NETAFIM	TLXXX	17MM DRIP TUBING FITTINGS				
	RAINBIRD	XB-XXX	BARBED POINT SOURCE EMITTERS (SEE EMITTER SCHEDULE)				A5, C5 L1703
	RAINBIRD	XQ-100	1/4" DISTRIBUTION TUBING				A5, C5 L1703
	RAINBIRD	TS-025	UNIVERSAL 1/4" TUBING STAKE				A5, C5 L1703
	RAINBIRD	DBC-025	DIFFUSER BUG CAP				A5, C5 L1703
	SEE SPECS	SCH 40 PVC	NON-PRESSURE LATERAL LINE				C5, E3, E5 L1702
	SEE SPECS	SCH 40 PVC	PRESSURE SUPPLY LINE				C5, E3, E5 L1702
	SEE SPECS	SCH 40 PVC	IRRIGATION SLEEVE (SEE SPECS FOR SIZE)				C5, E3, E5 L1702
	SEE SPECS	SCH 40 PVC	GREY CONDUIT FOR WIRE (SEE SPECS FOR SIZE)				C5, E3, E5 L1702



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# Date Revision

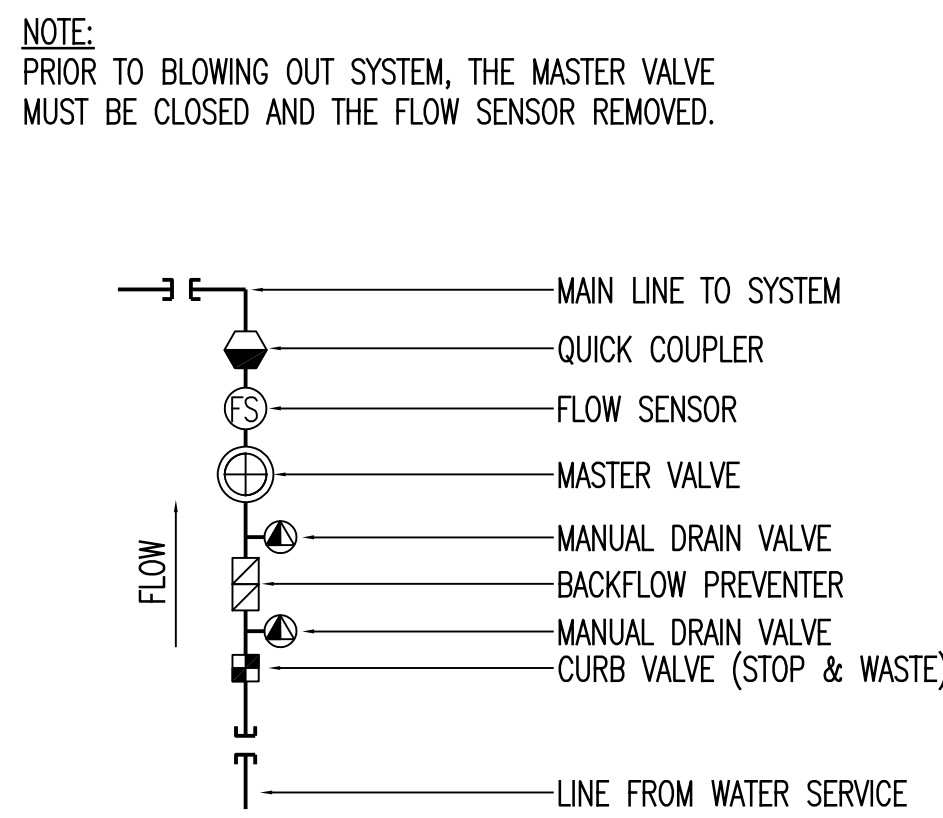
## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 18065  
CHECKED BY: AKC  
DRAWN BY: ZYN  
DATE: 08.09.18

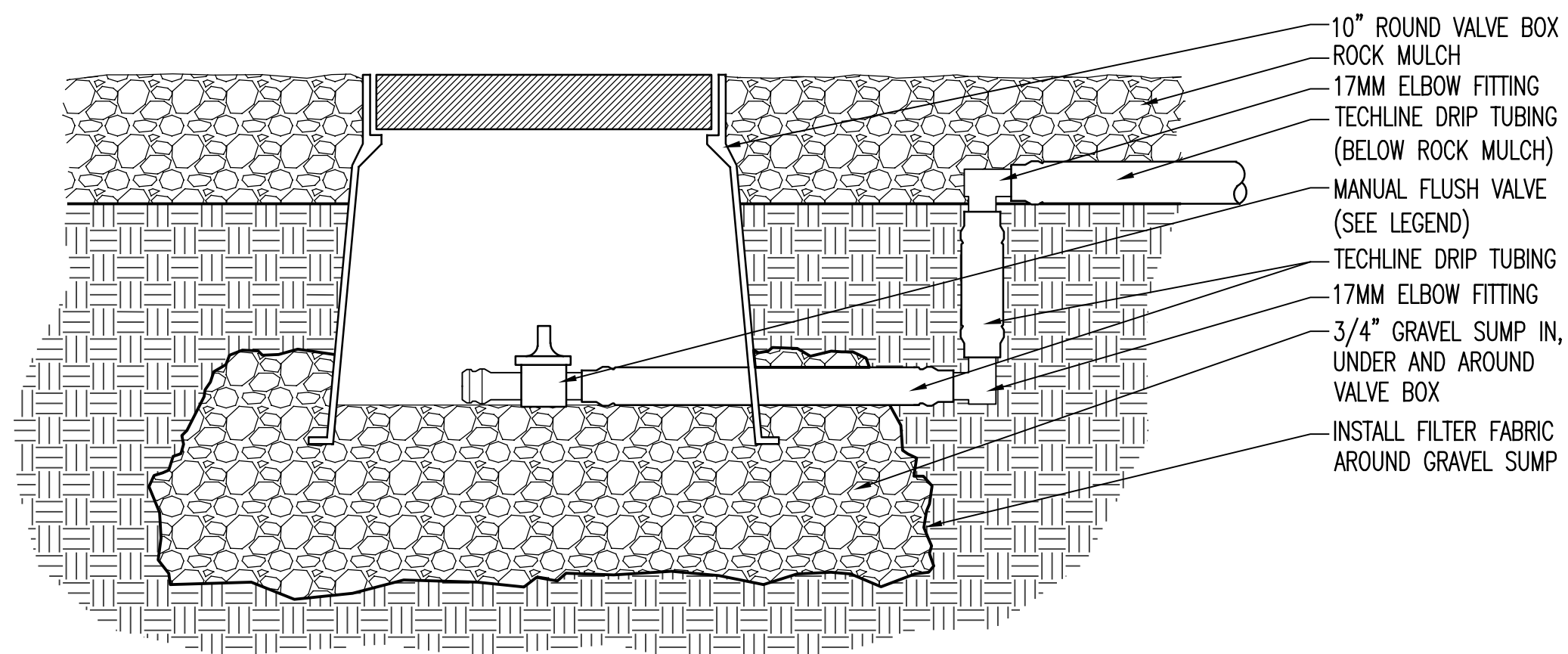
## IRRIGATION LEGEND

LI601

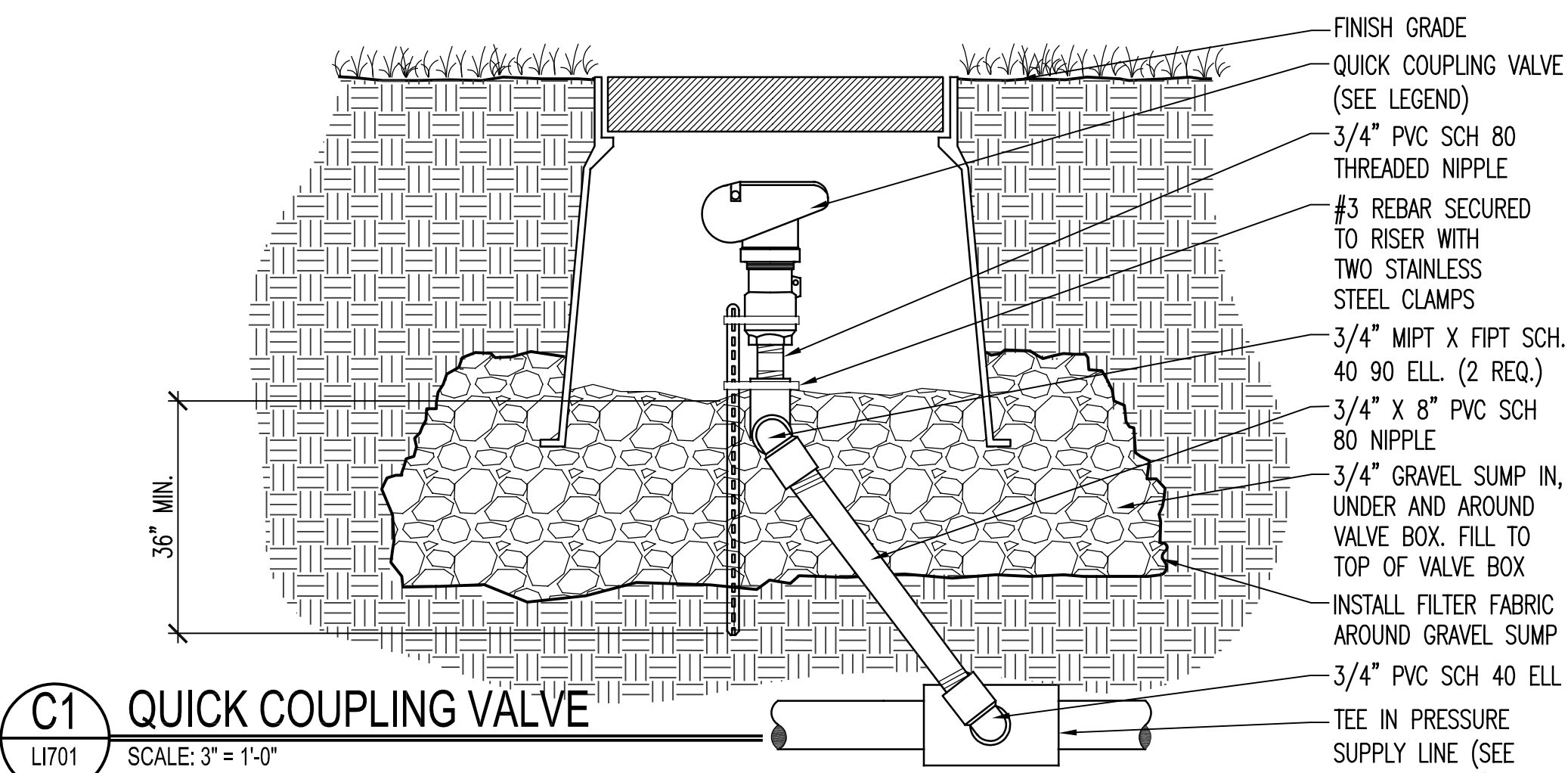




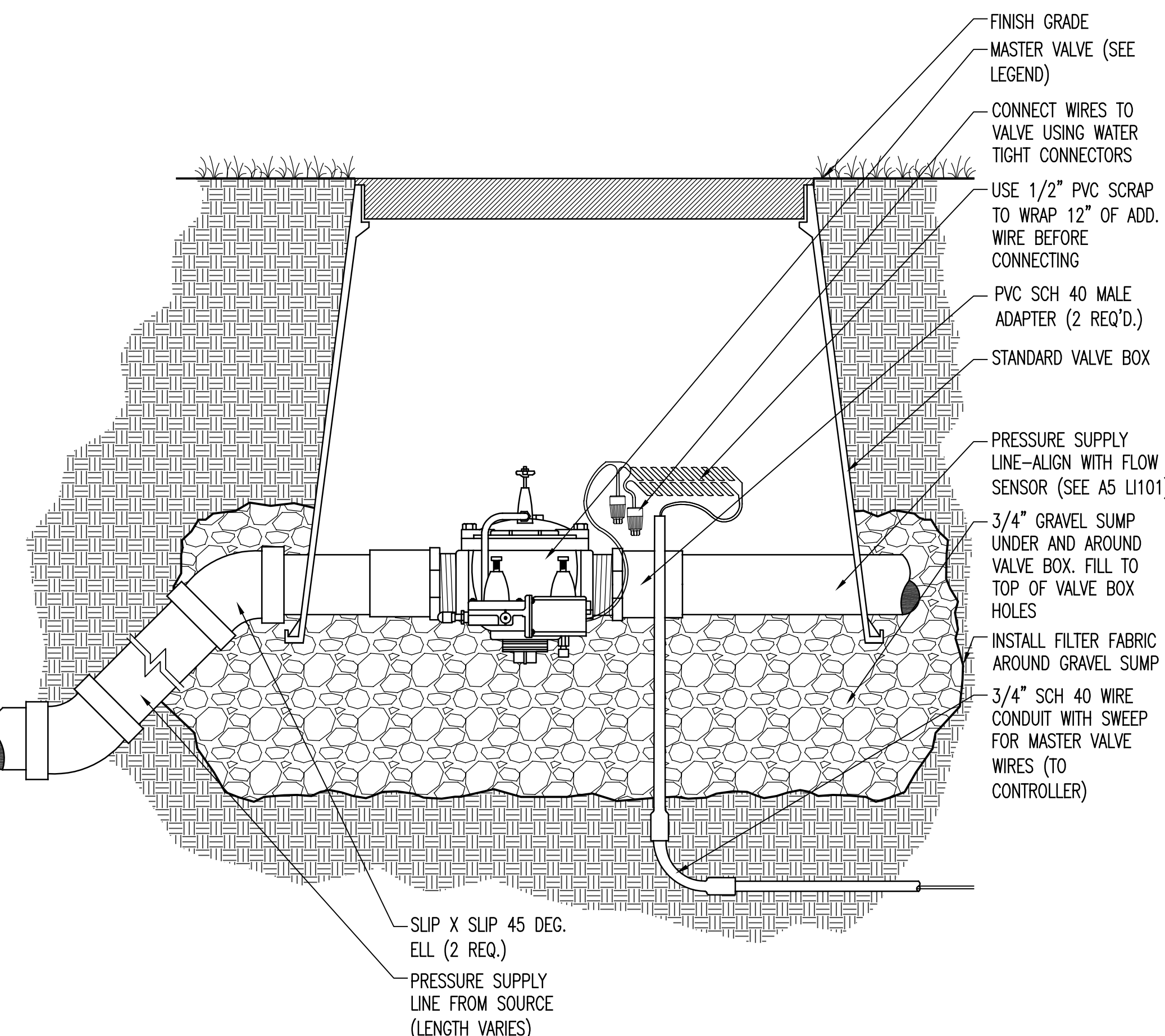
E6 POC SCHEMATIC LAYOUT  
SCALE: NTS



D1 MANUAL FLUSH VALVE  
SCALE: 3" = 1'-0"

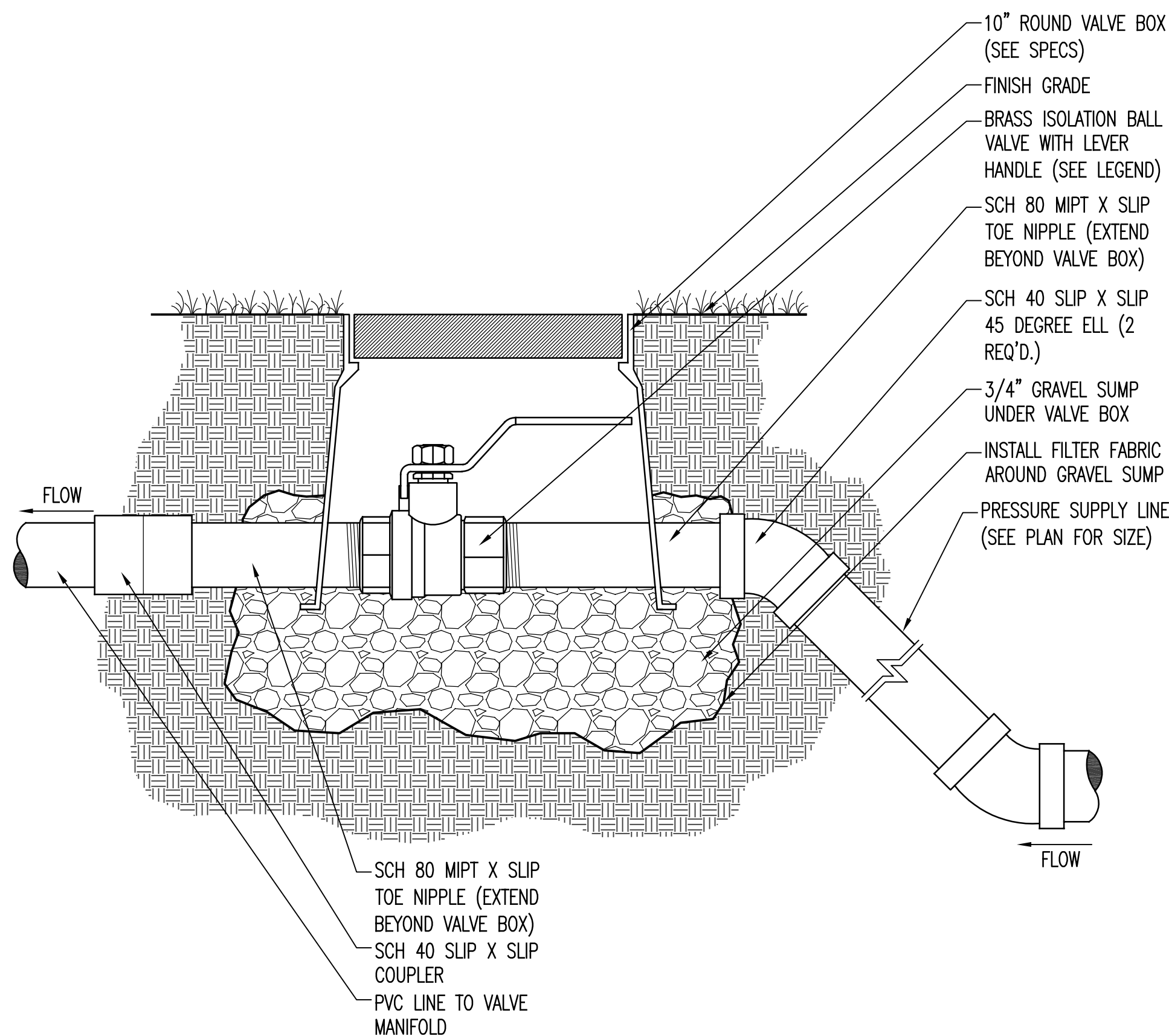


C1 QUICK COUPLING VALVE  
SCALE: 3" = 1'-0"



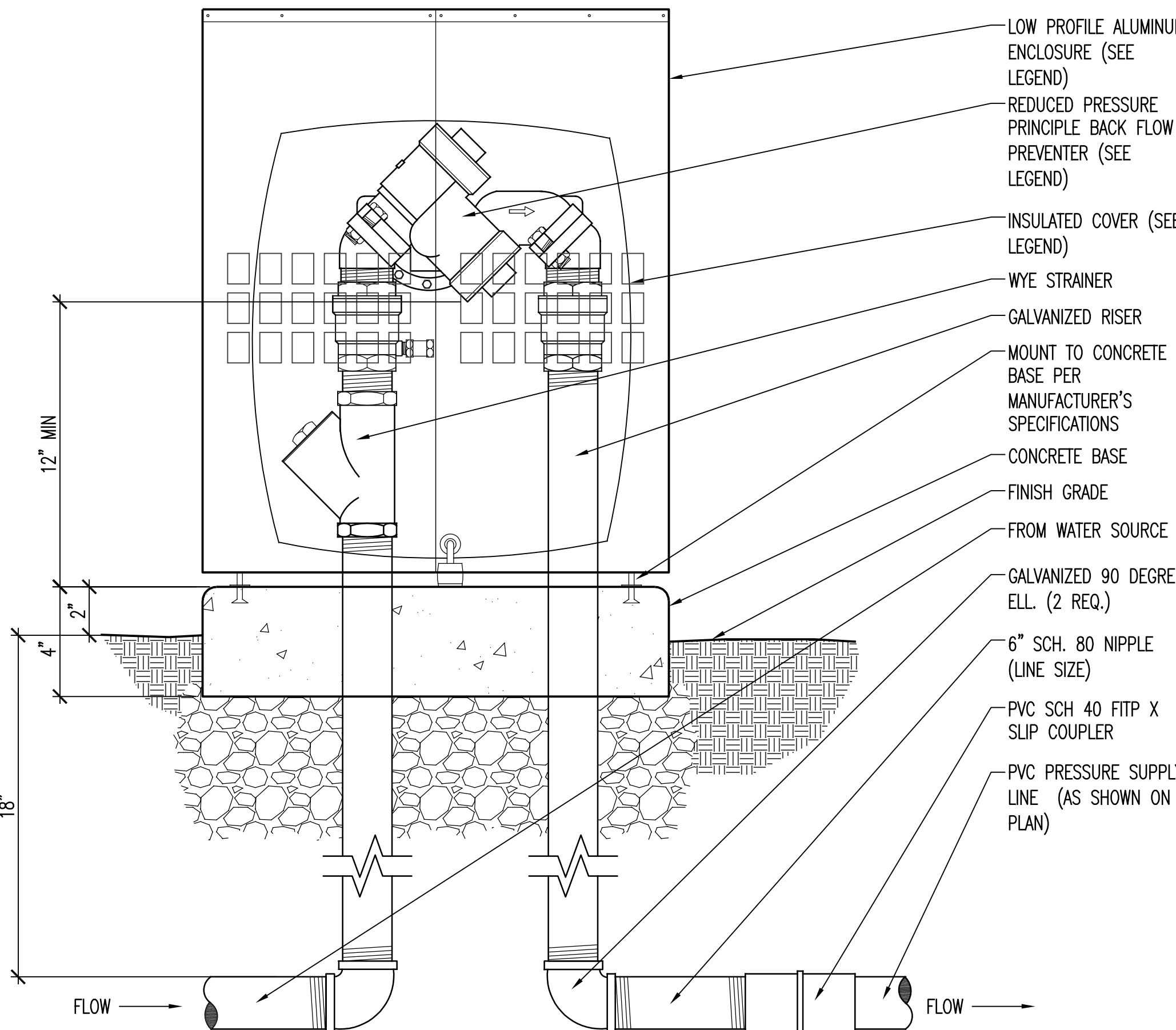
A1 MASTER VALVE  
SCALE: 3" = 1'-0"

FOR USE WITH POTABLE WATER

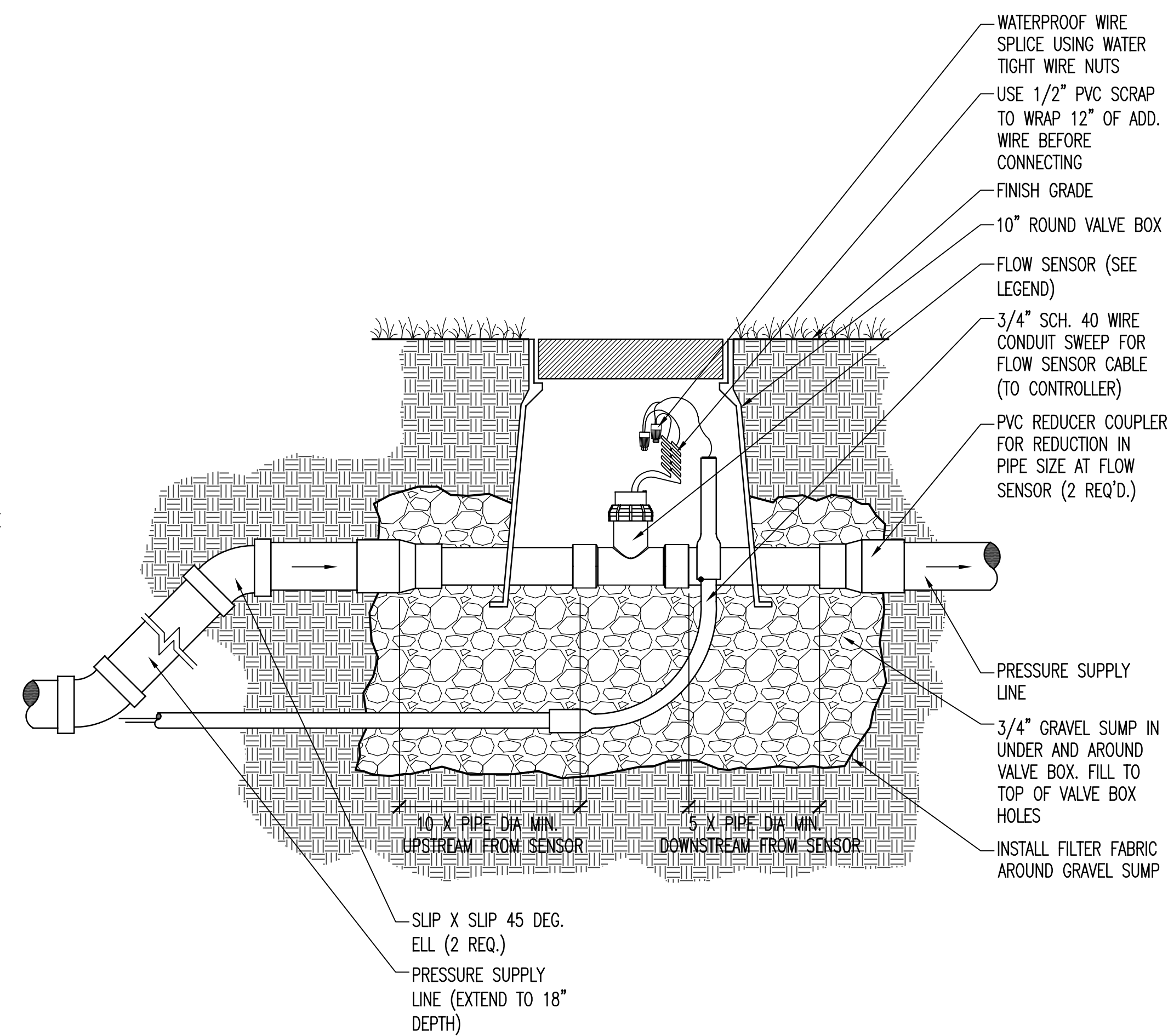


C3 ISOLATION BALL VALVE  
SCALE: 3" = 1'-0"

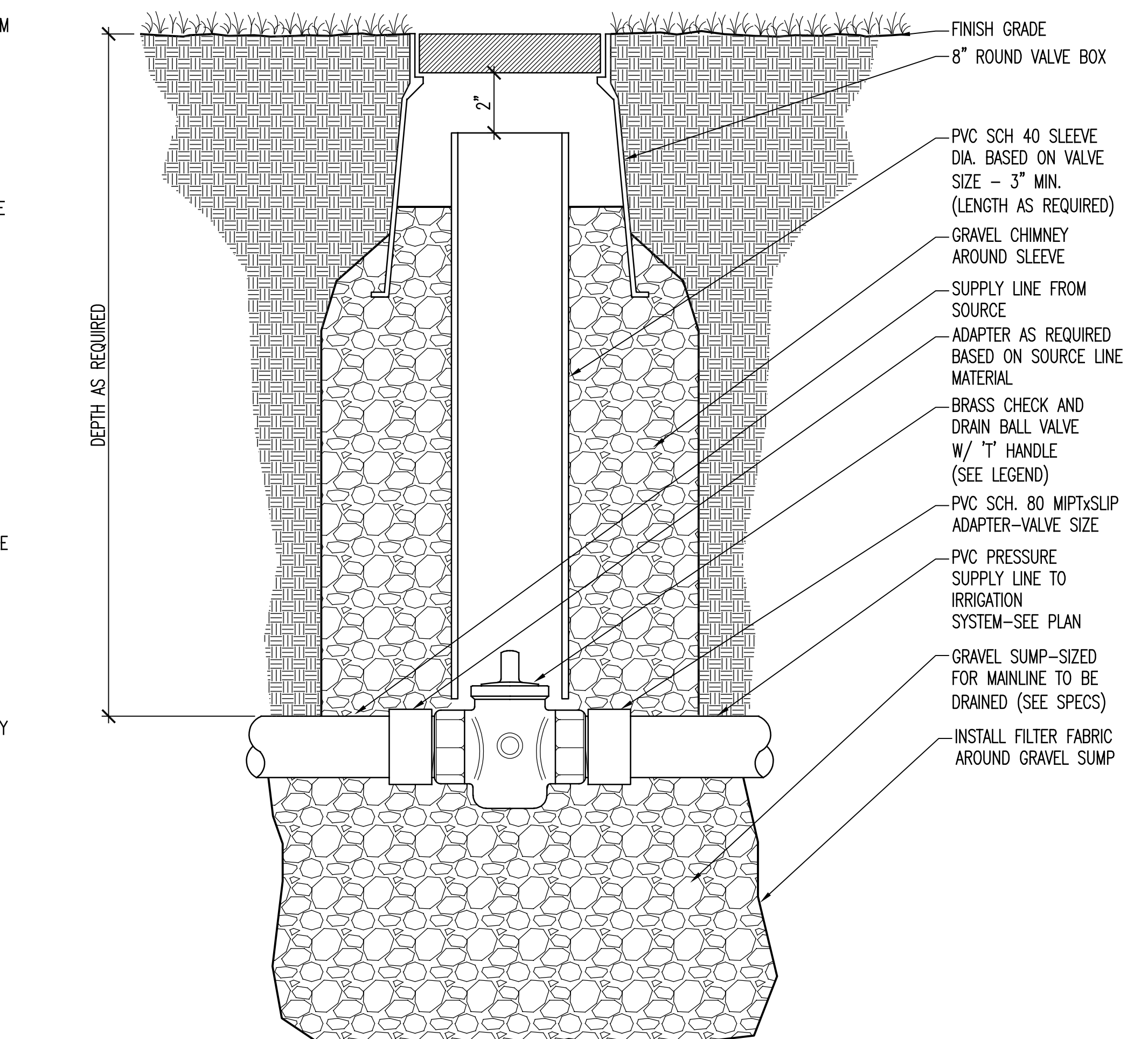
VALVE MANIFOLD



A3 BACK FLOW PREVENTION DEVICE  
SCALE: 3" = 1'-0"

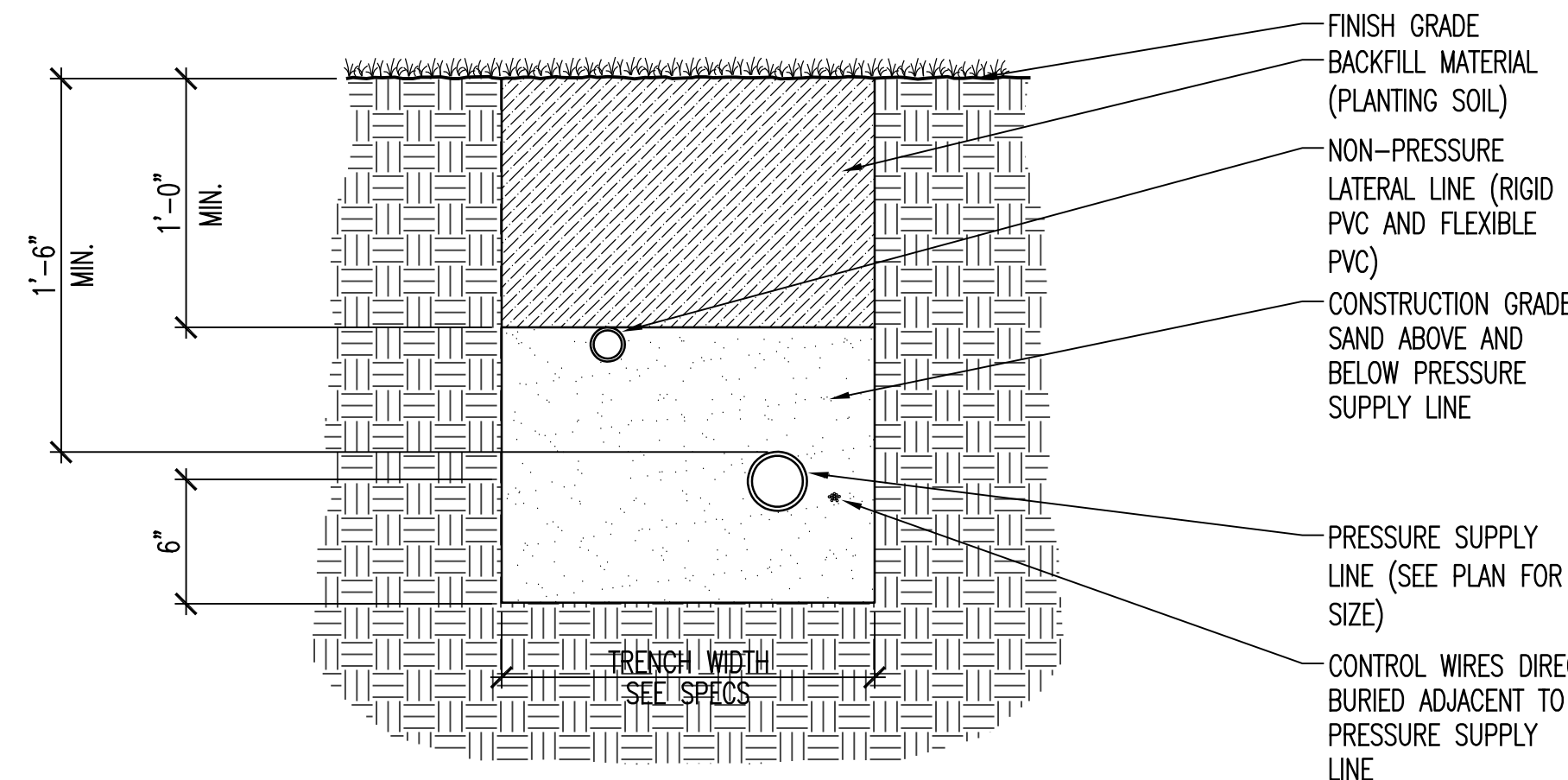


C5 FLOW SENSOR  
SCALE: 3" = 1'-0"

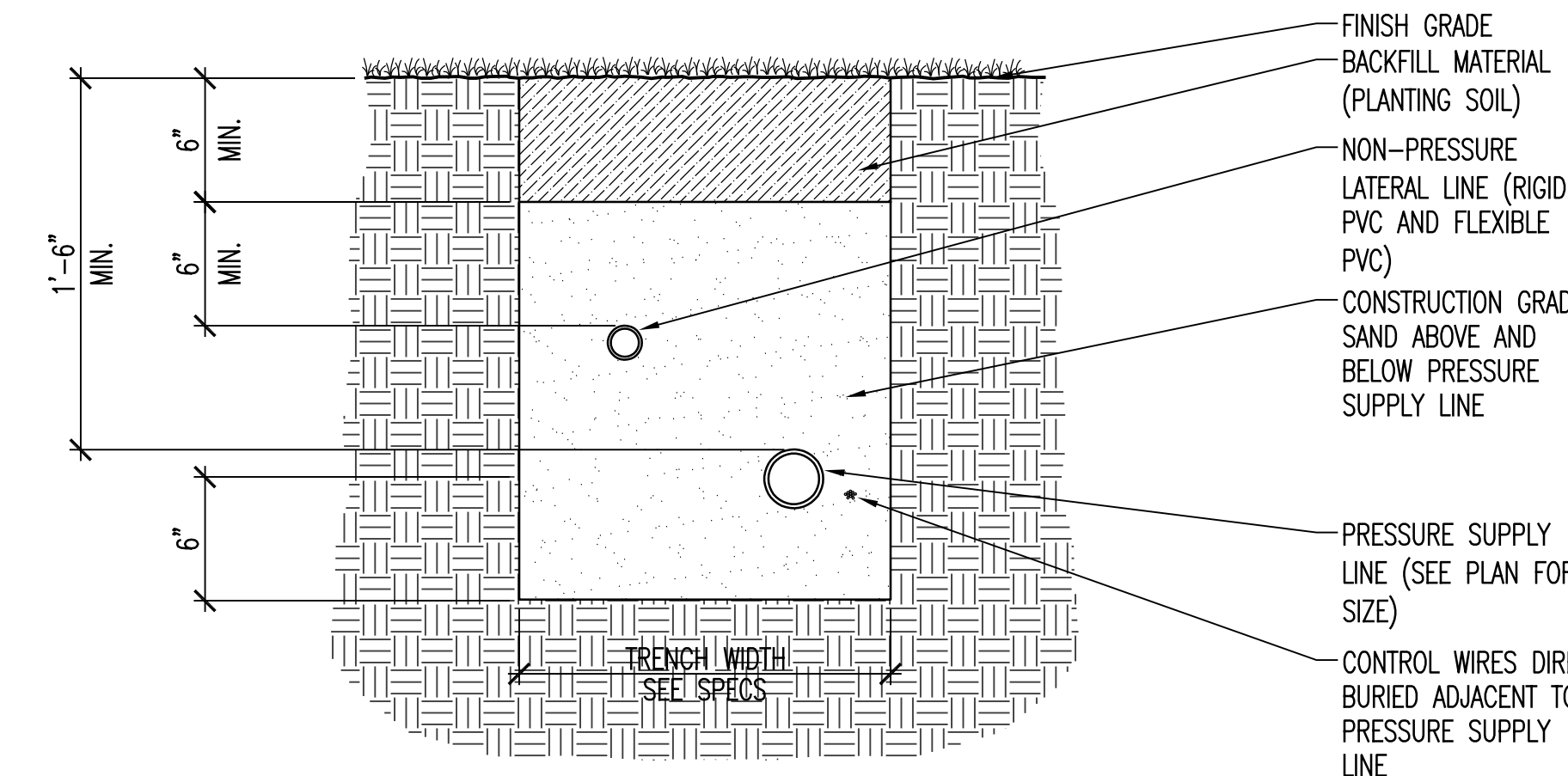


A5 STOP AND WASTE VALVE  
SCALE: 3" = 1'-0"

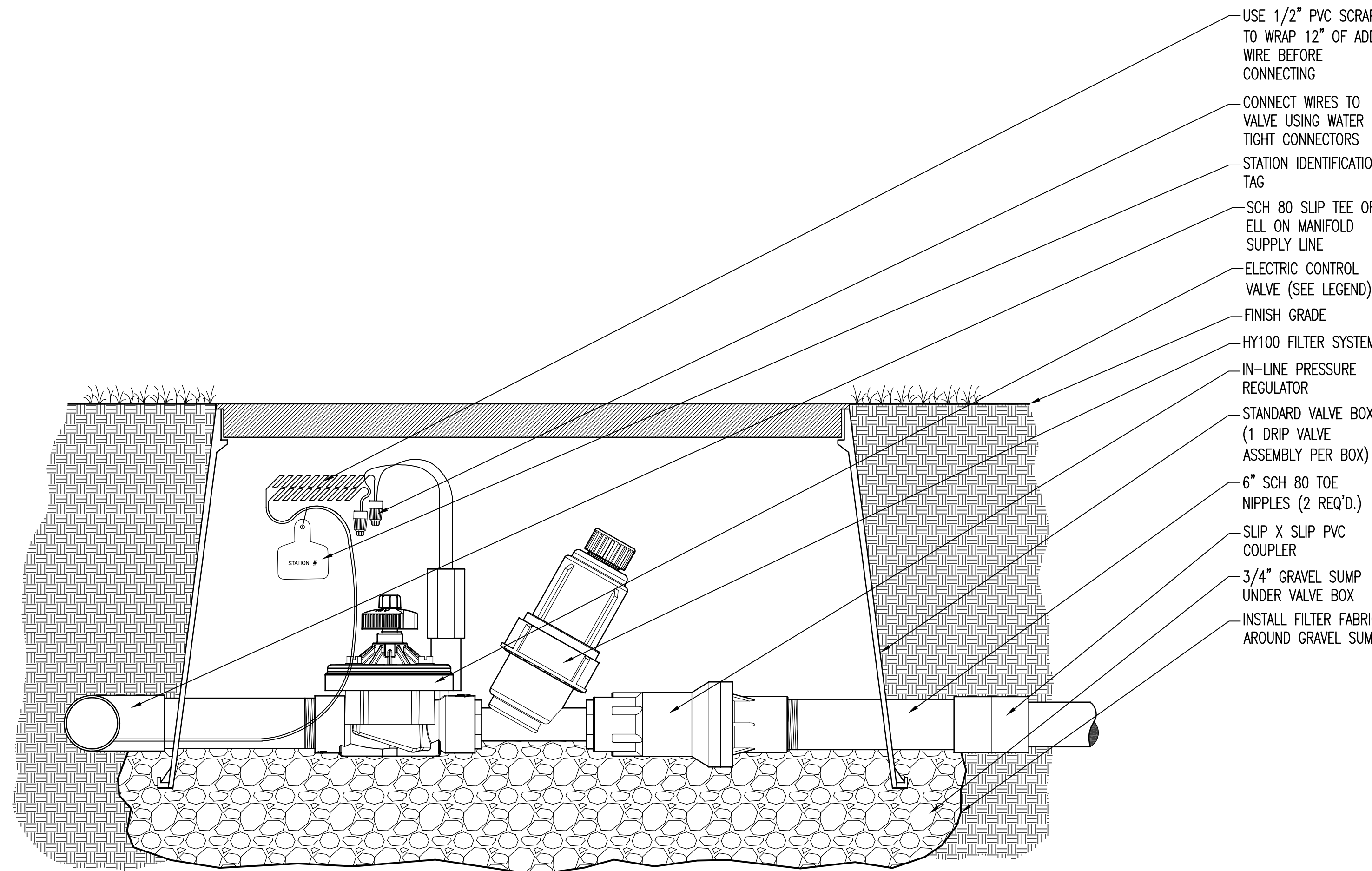




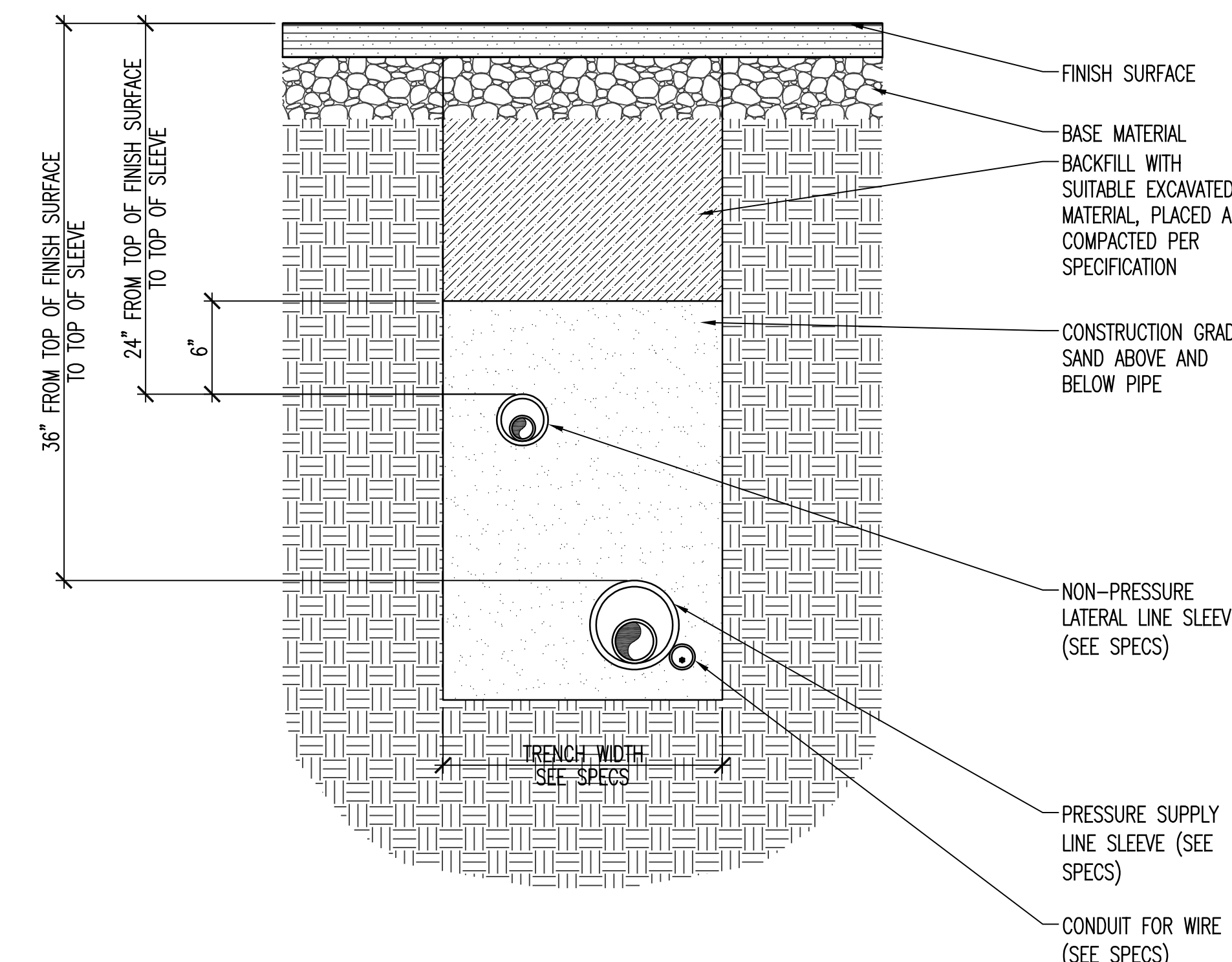
**E3 TRENCH IN PLANTER AREA**  
L1702 SCALE: 1 1/2" = 1'-0"



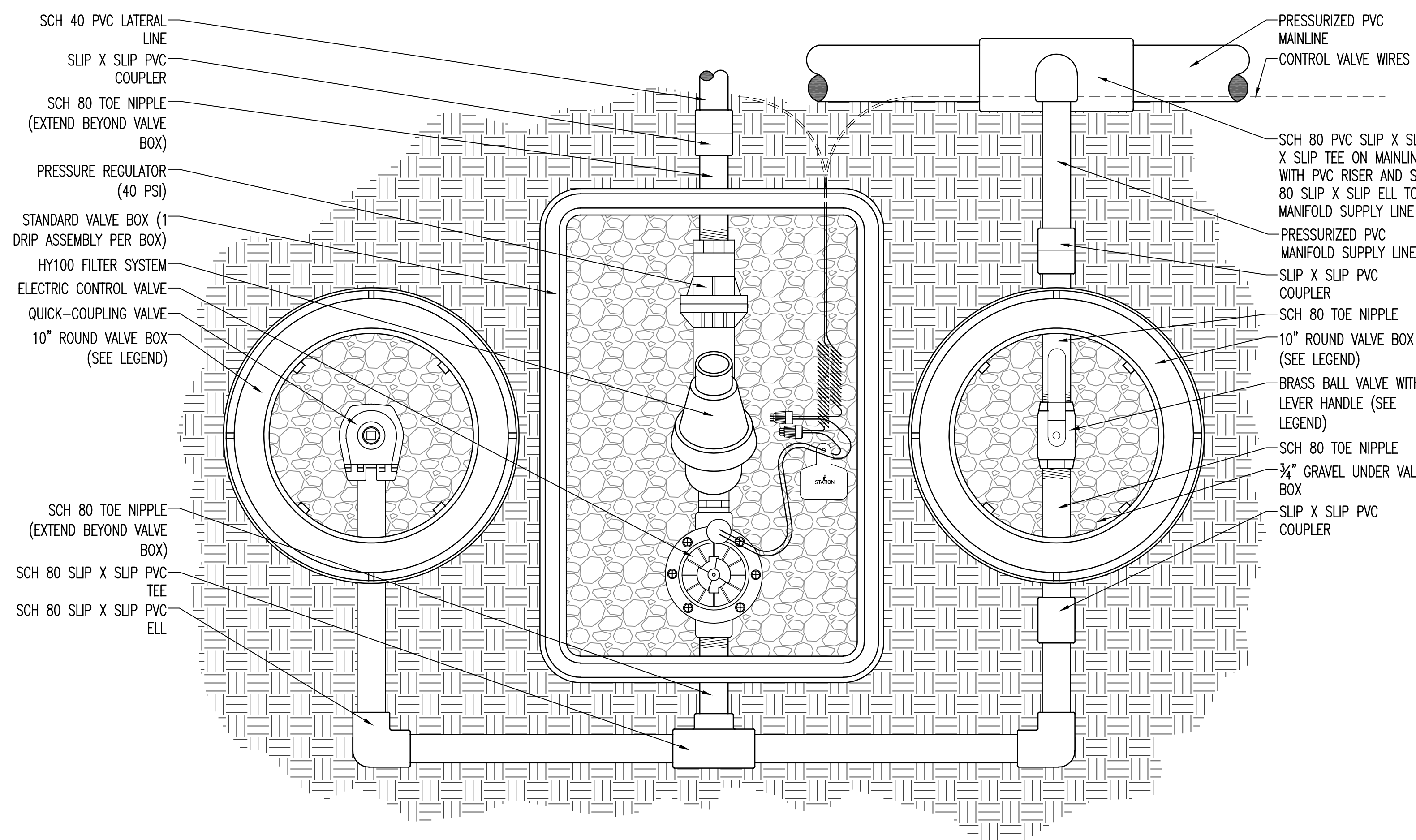
**E5 TRENCH IN TURF AREA**  
L1702 SCALE: 1 1/2" = 1'-0"



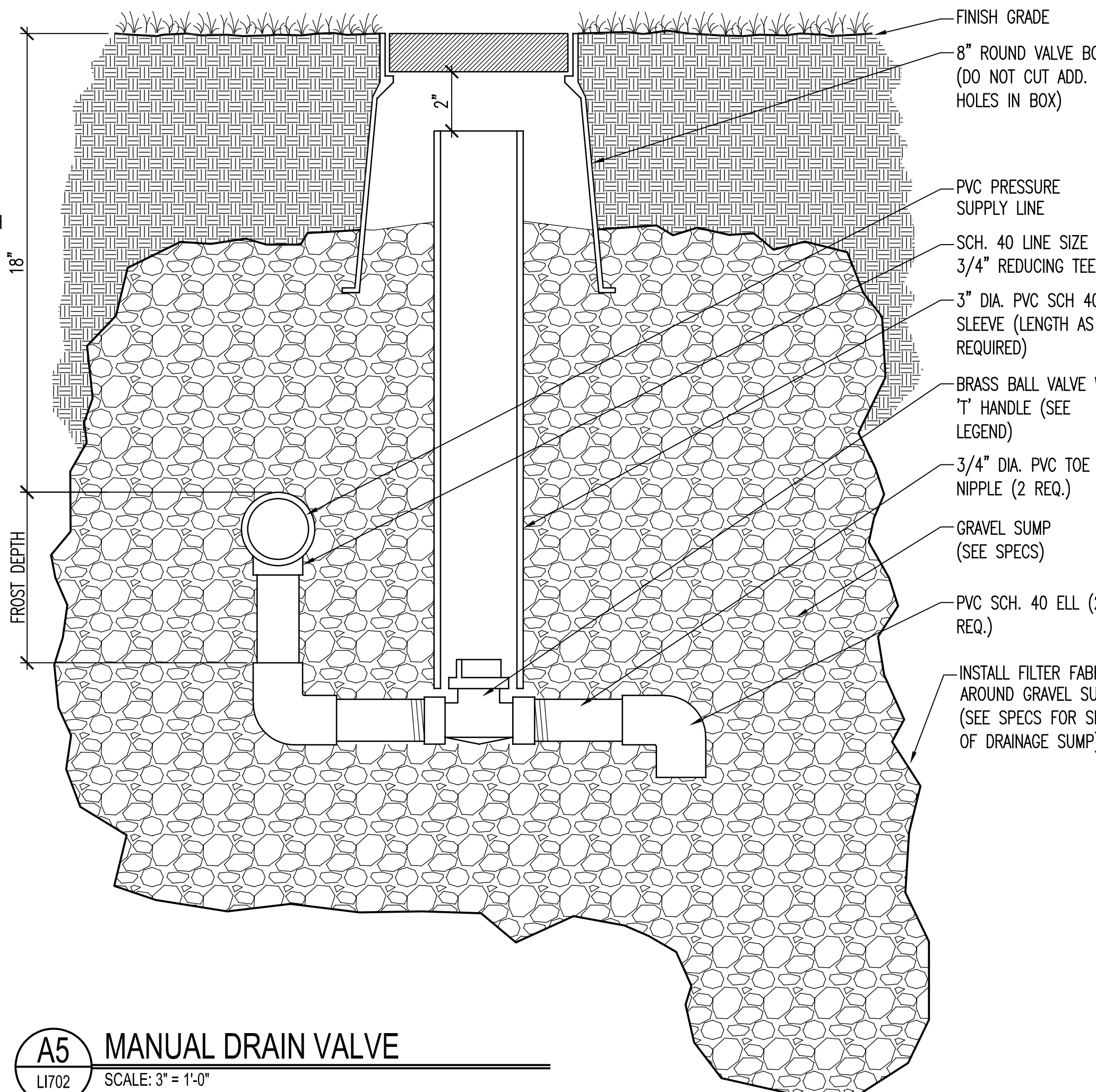
**C2 ELECTRIC CONTROL VALVE (DRIP VALVE ASSEMBLY)**  
L1702 SCALE: 3" = 1'-0"



**C5 TRENCH IN HARDSCAPE**  
L1702 SCALE: 1 1/2" = 1'-0"

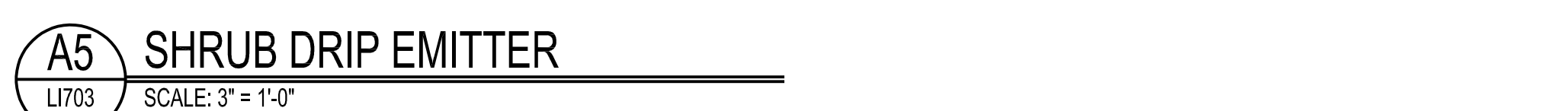
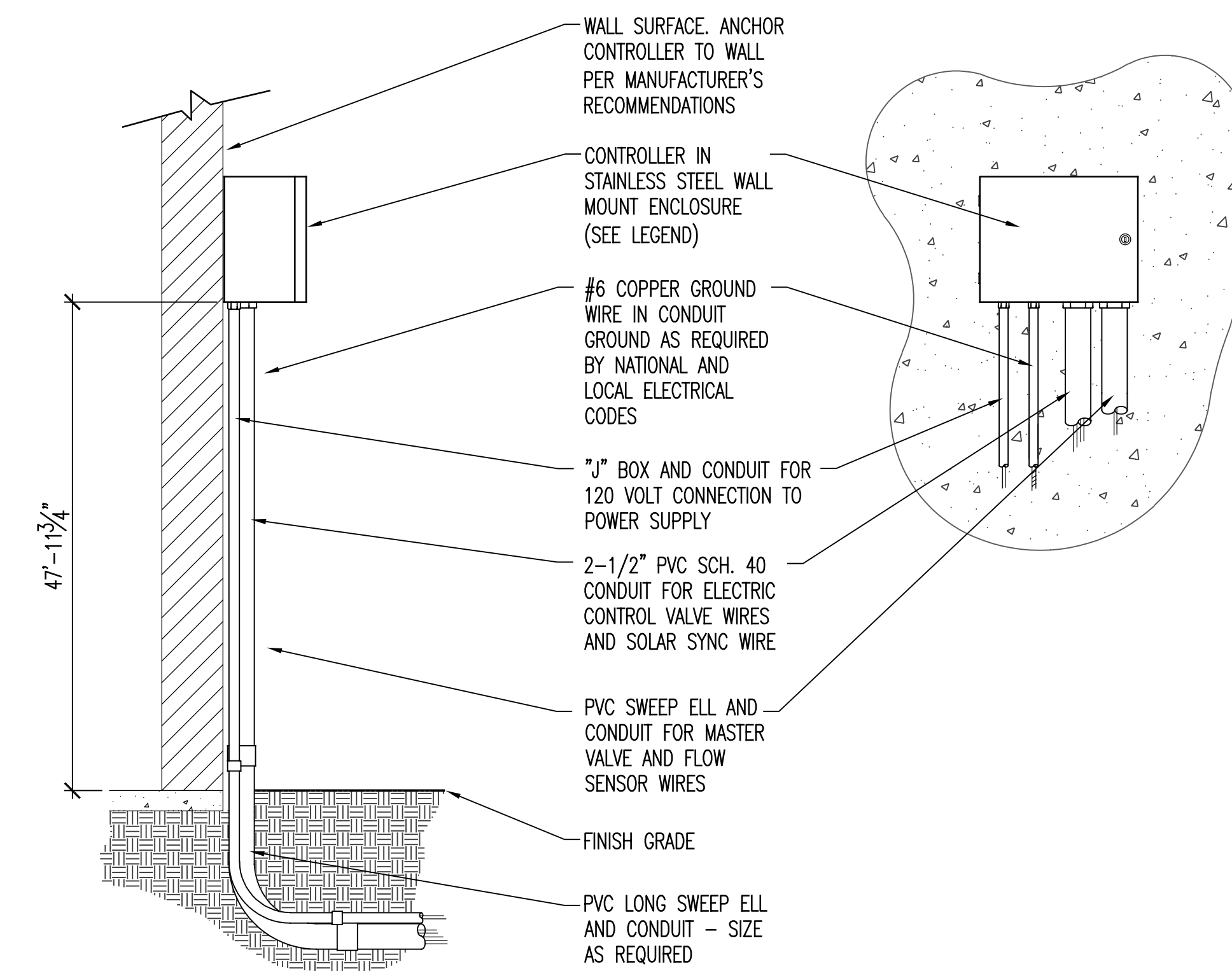
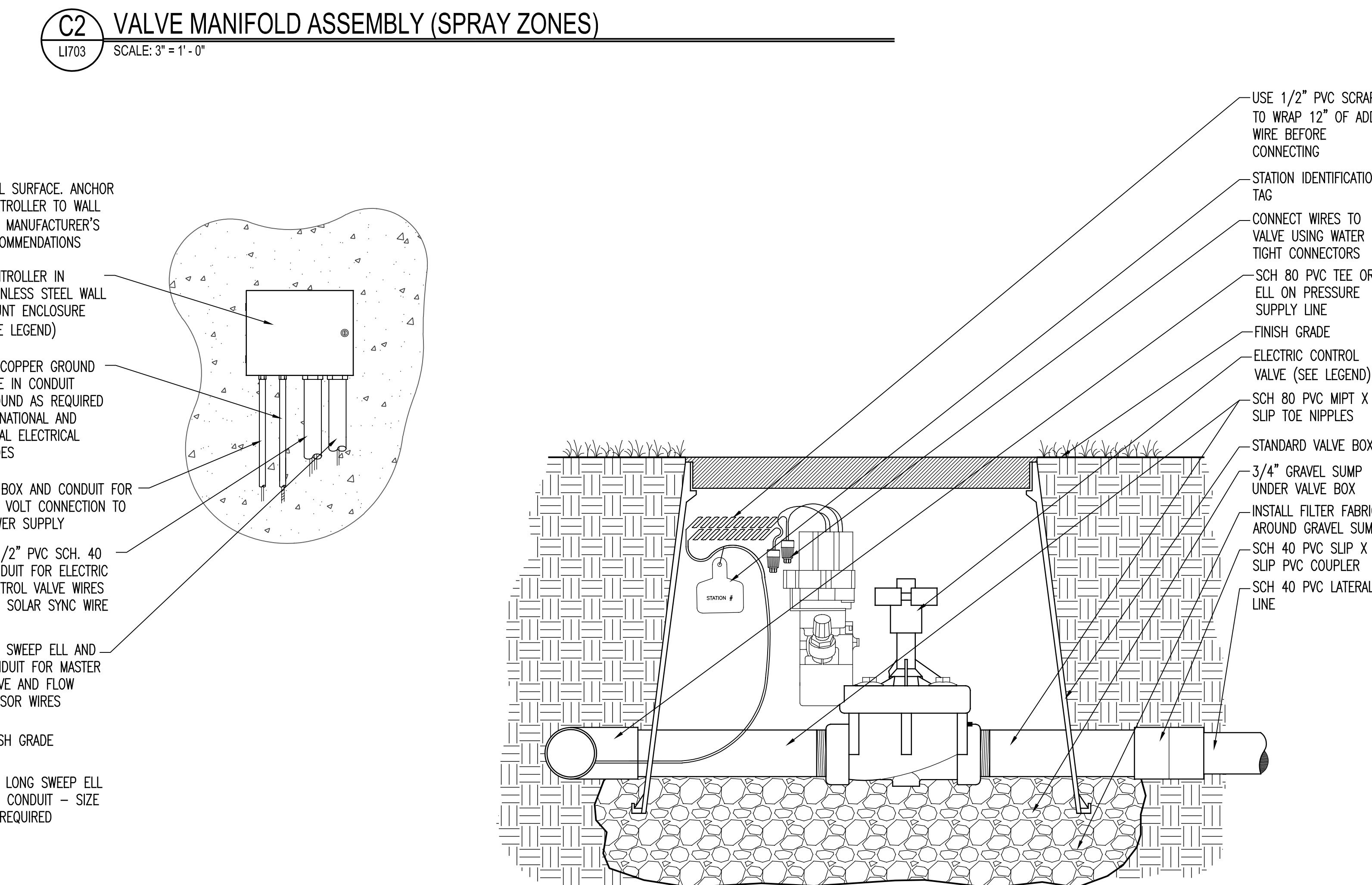
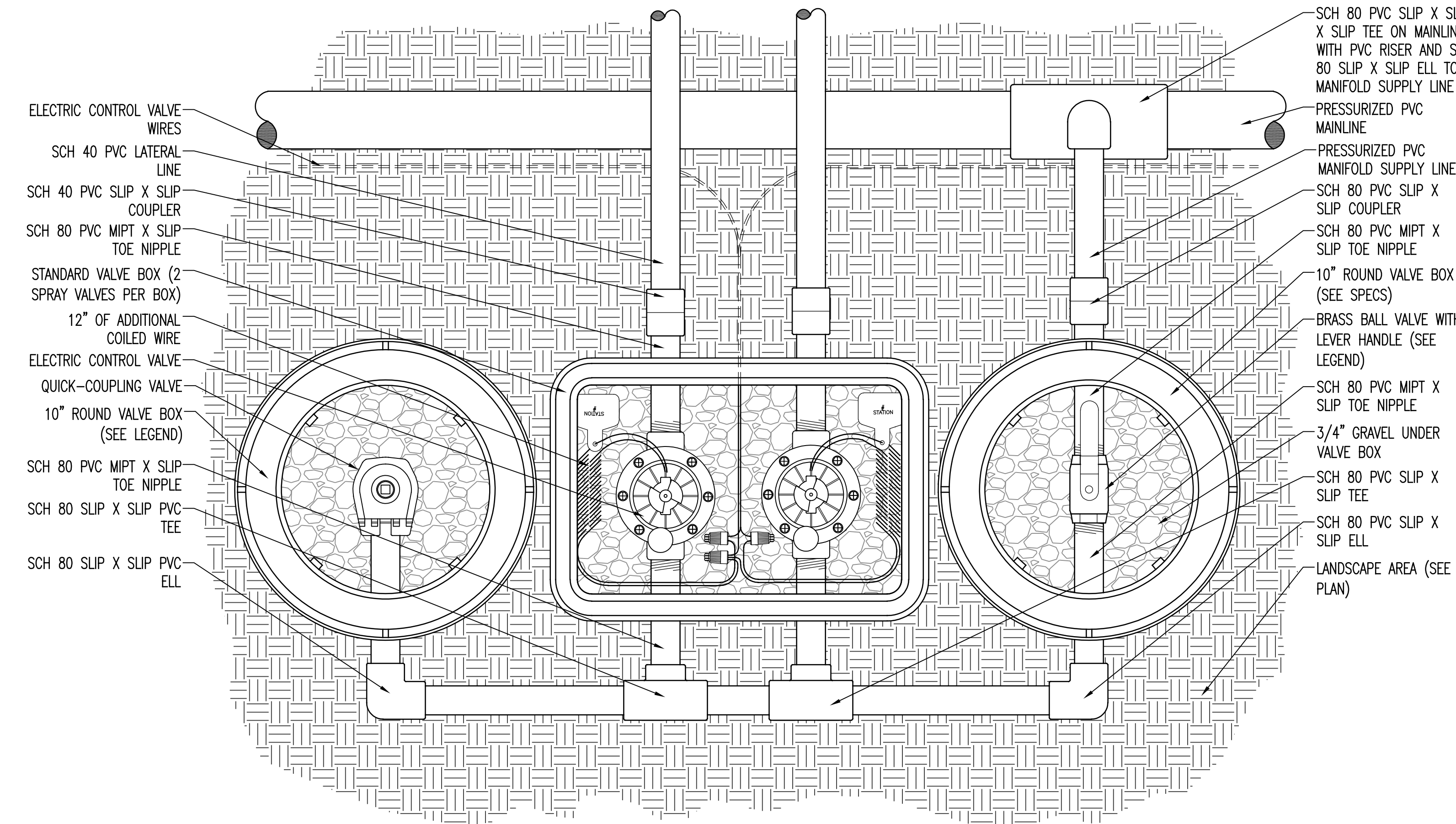
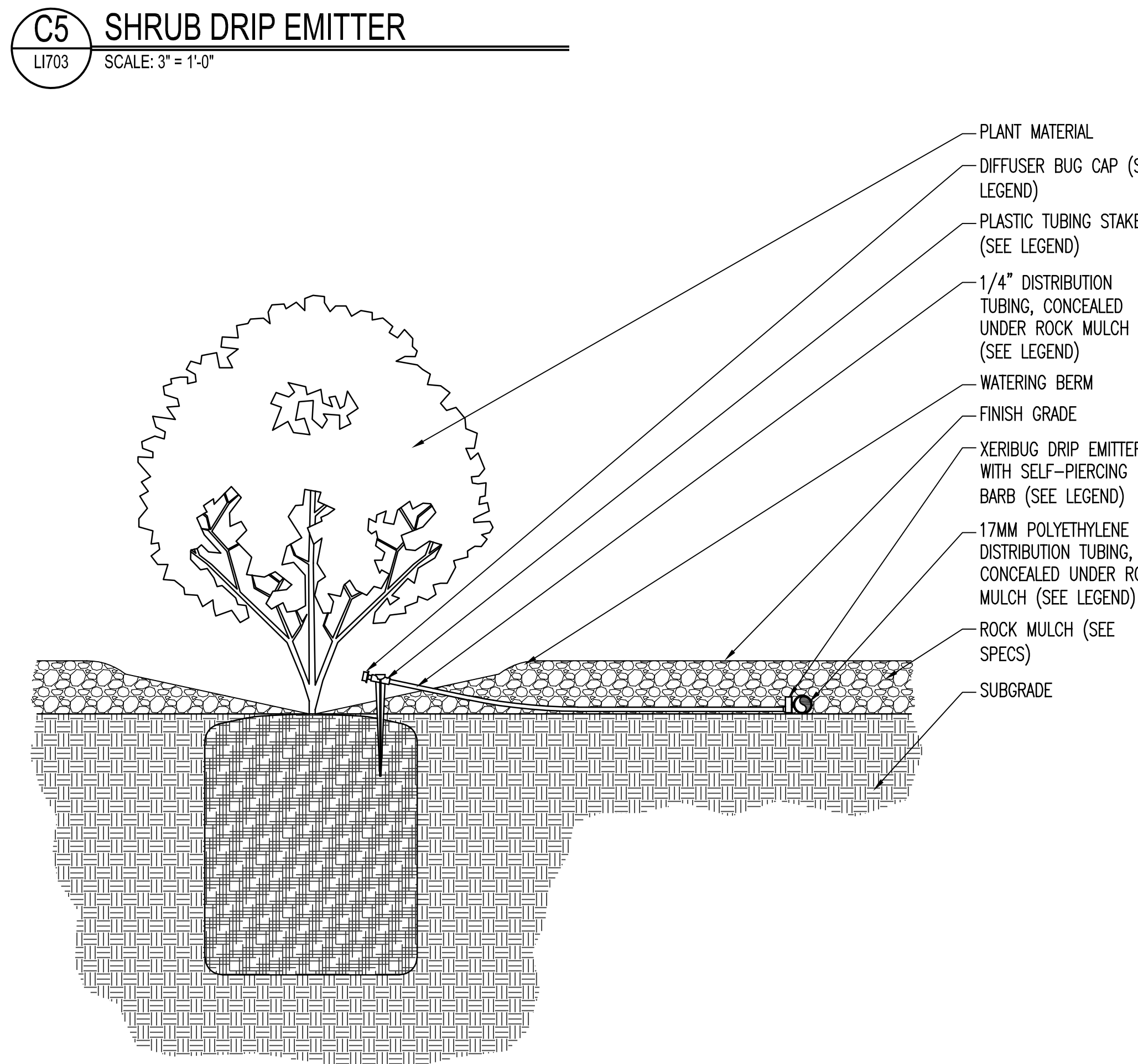
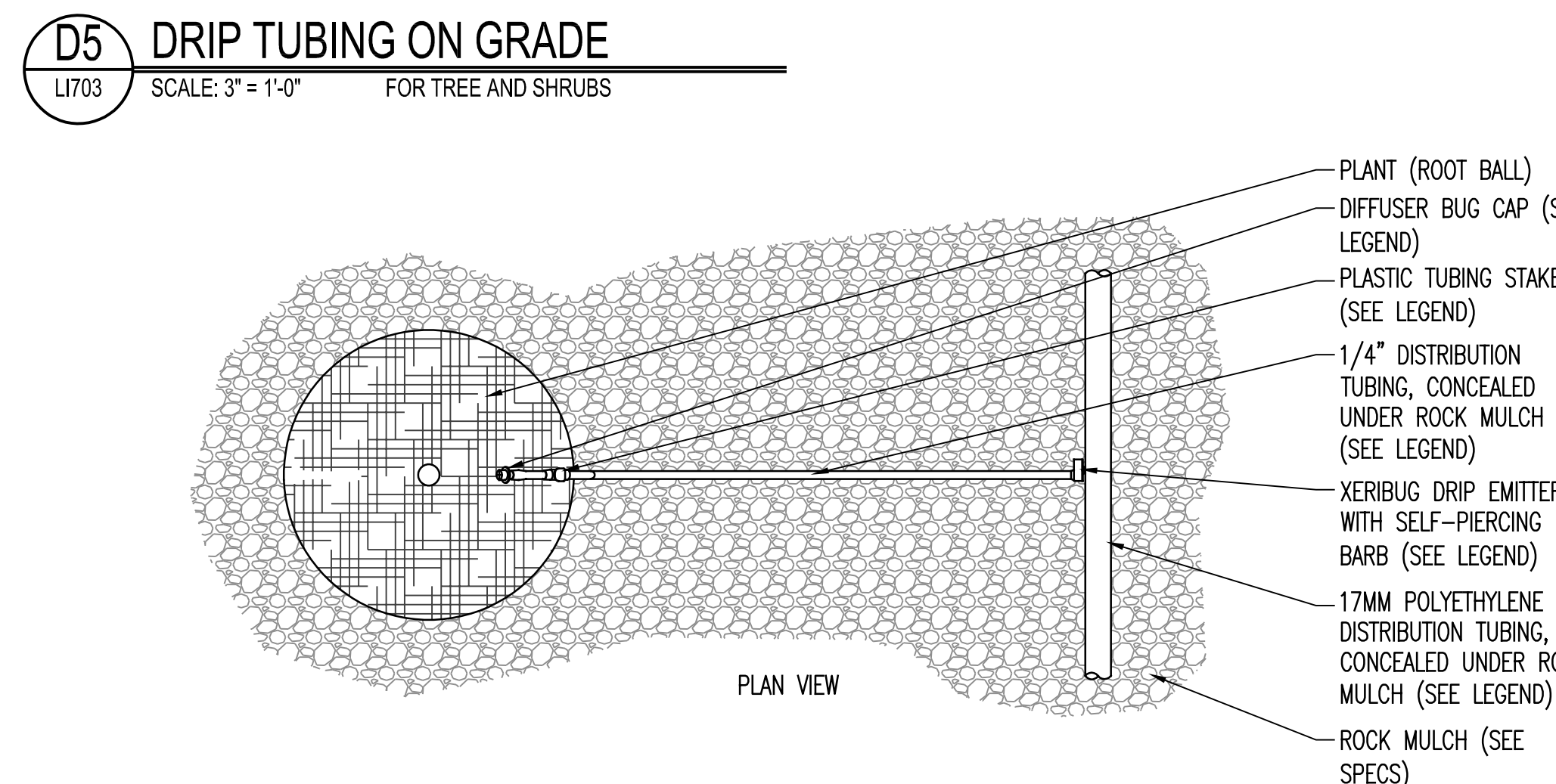
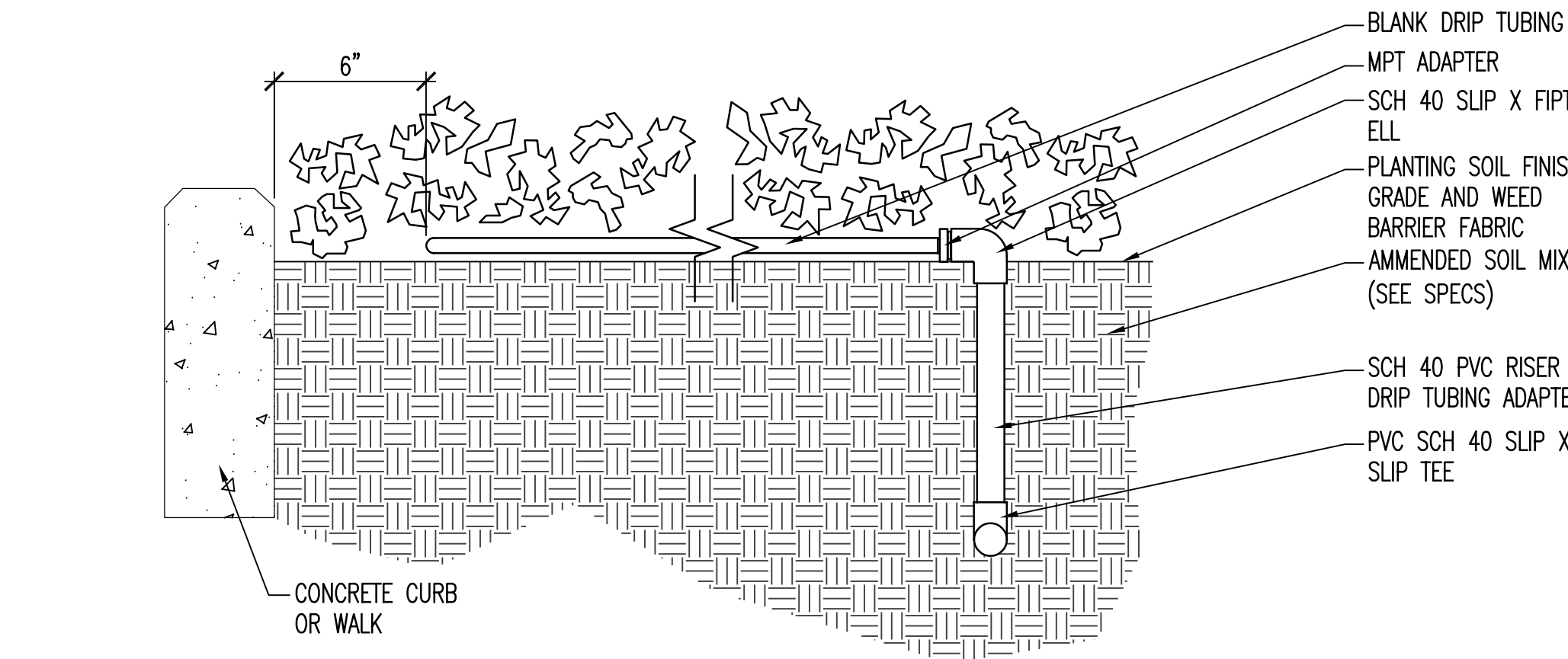
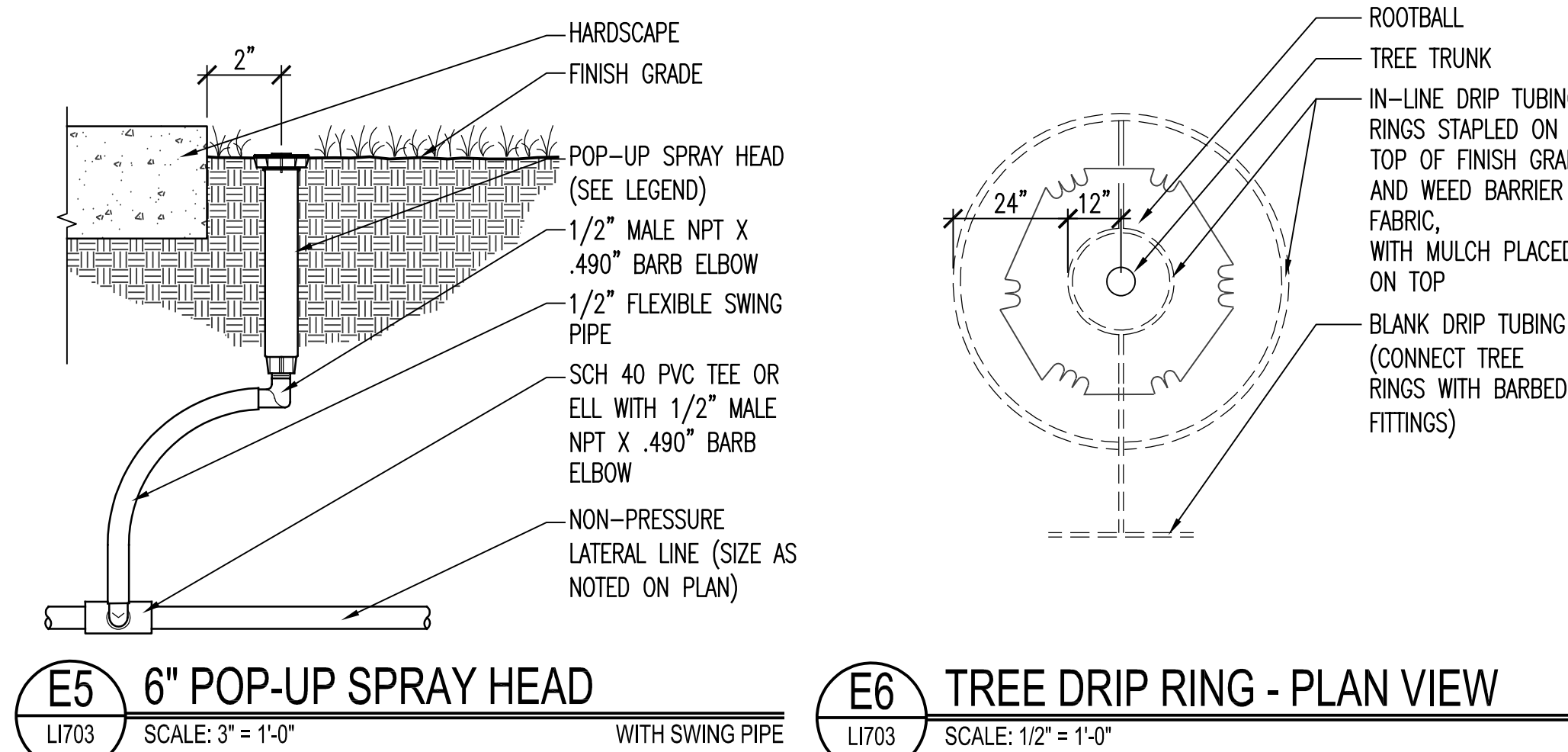


**A2 VALVE MANIFOLD ASSEMBLY (DRIP ZONES)**  
L1702 3" = 1'-0"

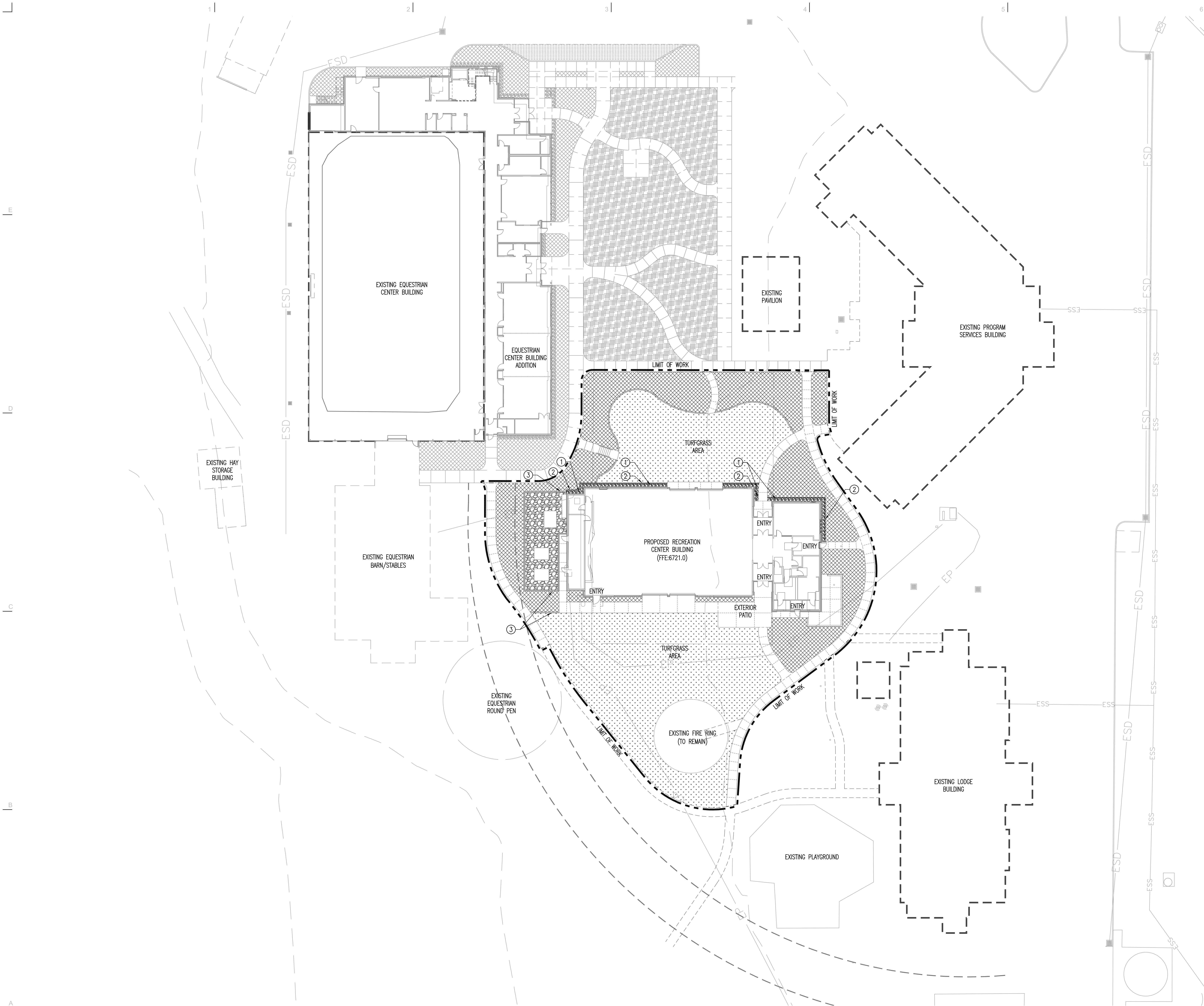


**A5 MANUAL DRAIN VALVE**  
L1702 SCALE: 3" = 1'-0"









PLANTING GROUND PLANE  
GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR COMPARING THE EXISTING AND NEW SITE CONDITIONS WITH THE GROUND PLANE PLAN PRIOR TO BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE GROUND PLANE PLAN. IN THE EVENT THE CONTRACTOR FAILS TO COMPARE EXISTING AND NEW SITE CONDITIONS WITH THE GROUND PLANE PLAN PRIOR TO BEGINNING WORK, AND/OR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REQUIRED ALTERATIONS AND ADDITIONS TO THE GROUND PLANE PLAN, INCLUDING ADDITIONAL MATERIALS, AT NO ADDITIONAL COST TO THE OWNER.
2. QUANTITIES PROVIDED ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND VERIFYING TOTAL QUANTITIES NECESSARY TO COMPLETE THE WORK AS INDICATED ON THE PLANS.
3. CONTRACTOR SHALL PLACE ROCK MULCH BY HAND IN ALL LANDSCAPED AREAS ADJACENT TO BUILDINGS IN ORDER TO PROTECT BUILDING SURFACES. DO NOT DUMP ROCK MULCH DIRECTLY AGAINST BUILDING SURFACES OR ON SITE IMPROVEMENTS (SIDEWALKS, DRIVEWAYS, PARKING AREAS, RETAINING WALLS) WITH MACHINES. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRING DAMAGE TO BUILDINGS OR SITE IMPROVEMENTS CAUSED BY MACHINE USE.
4. REPAIR ALL EXISTING LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO MATCH EXISTING CONDITIONS. REPAIR INCLUDES, BUT IS NOT LIMITED TO FINISH GRADING ELEVATIONS, SURFACE MATERIALS, VEGETATION TYPES, AND IRRIGATION METHODS.
5. REFER TO THE PLANTING LEGEND, DETAILS, AND SPECIFICATIONS FOR MORE INFORMATION.

LEGEND:

- PROPOSED TURFGRASS (11,624 SQ.FT)
- PROPOSED LANDSCAPE AREA - ORGANIC BARK MULCH, INSTALLED TO A MINIMUM 3" DEPTH
- LANDSCAPE DRIP EDGE - 2-3" DECORATIVE COBBLE ROCK WITH 4" STEEL EDGING, 6" DEPTH
- DECORATIVE ROCK MULCH - 2-3" DECORATIVE COBBLE ROCK, 3" DEPTH

PLANTING PLAN GROUND  
PLANE KEY NOTES: #

1. COBBLE DRIP EDGE - 24" WIDTH
2. ALUMINUM EDGING - 4" HEIGHT
3. CONCRETE MOW CURB - 6"x6"



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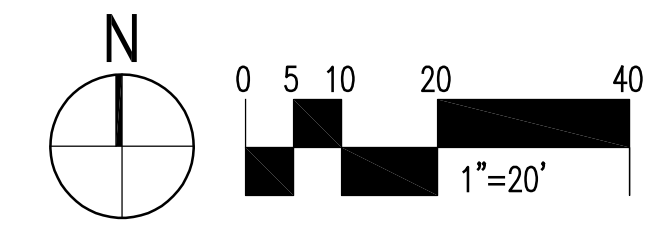
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**RECREATION CENTER**  
1000 ABILITY WAY  
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#	Date	Revision
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CONSTRUCTION  
DOCUMENTS

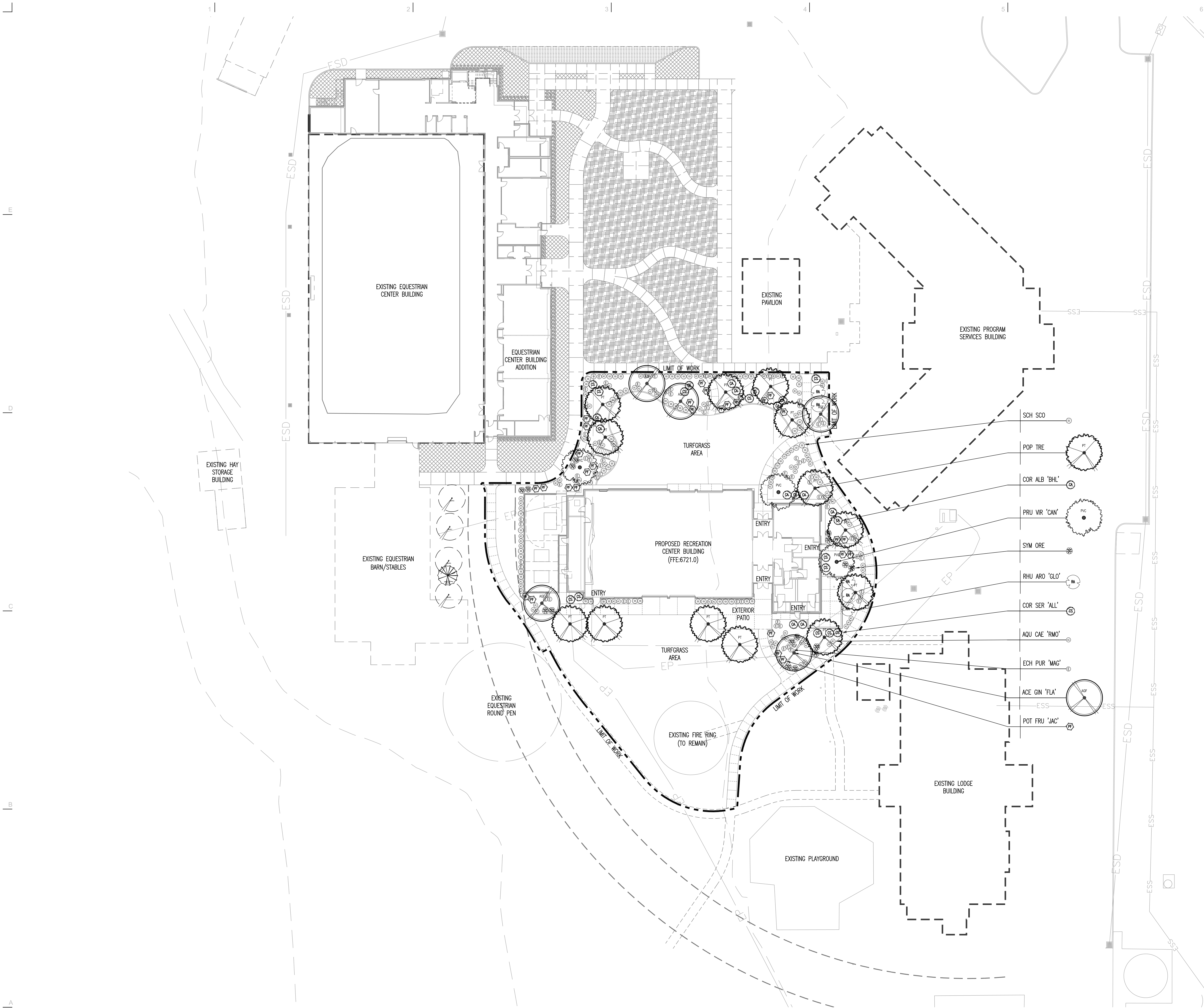
NEXUS PROJ. #: 18065  
CHECKED BY: AKC  
DRAWN BY: ZYN  
DATE: 08.09.18

PLANTING PLAN  
(GROUND PLANE)



LP101





PLANTING PLAN GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE EXISTING AND NEW SITE CONDITIONS WITH THE PLANTING PLAN PRIOR TO BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE PLANTING PLANS. IN THE EVENT THE CONTRACTOR FAILS TO COMPARE EXISTING AND NEW SITE CONDITIONS WITH THE PLANTING PLANS PRIOR TO BEGINNING WORK, AND/OR FAILS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REQUIRED ALTERATIONS AND ADDITIONS TO THE PLANTING PLAN, INCLUDING ADDITIONAL MATERIALS, AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE PLANT PLACEMENT WITH NEW IRRIGATION SYSTEM.
3. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGES CAUSED BY CONSTRUCTION OPERATIONS ON OR OFF OF THE SITE WITH NO ADDITIONAL COSTS TO THE OWNER.
4. QUANTITIES PROVIDED ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND VERIFYING TOTAL QUANTITIES NECESSARY TO COMPLETE THE WORK AS INDICATED ON THE PLANS.
5. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND VERIFYING THE TOTAL PLANT QUANTITIES NECESSARY TO MATCH THE SYMBOLS ON PLANS.
6. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY PLANT SUBSTITUTIONS OR CHANGES TO PLANT SIZES SPECIFIED. THE LANDSCAPE ARCHITECT SHALL APPROVE SUBSTITUTIONS AND/OR SIZE CHANGES PRIOR TO PLANT INSTALLATION.
7. REFER TO PLANTING LEGEND, DETAILS, AND SPECIFICATIONS FOR MORE INFORMATION.

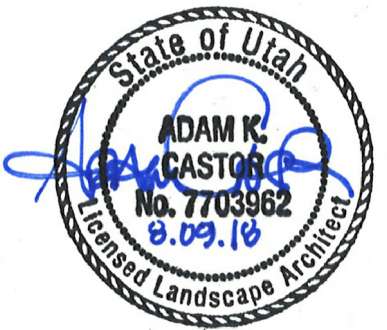
EXISTING TREES TO REMAIN:

- SMALL TO MEDIUM DECIDUOUS
- CONIFER
- LARGE DECIDUOUS



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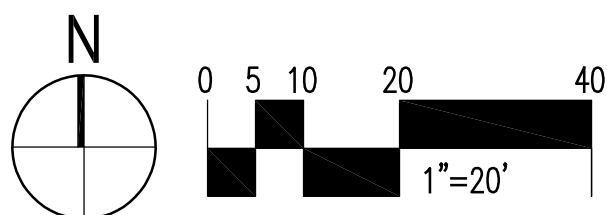
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CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 18065  
CHECKED BY: AKC  
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DATE: 08.09.18

PLANTING PLAN



LP111





## TREES

COR ALB 'BHL'	Cornus alba 'Bailhala'	Ivory Halo™ Dogwood	3	–	5'x5'	#5 gal.	13	No	No	M	C5 LP701
COR SER 'ALL'	Cornus sericea 'Alleman's Compact'	Alleman's Compact Red Osier Dogwood	3	–	5'x5'	#5 gal.	14	No	No	M	C5 LP701
POT FRU 'JAC'	Potentilla fruticosa 'Jackmanii'	Jackman Shrub Cinquefoil	2	–	4'x4'	#2 gal.	29	No	Yes	L	C5 LP701
RHU ARO 'GLO'	Rhus aromatica 'Grow Low'	Grow Low Sumac	4	–	30"x8"	#5 gal.	5	No	Yes	L	C5 LP701
SYM ORE	Symphoricarpos oreophila	Mountain Snowberry	3	–	4'x4'	#5 gal.	16	Yes	Yes	L	C5 LP701

## SHRUBS

COR ALB 'BHL'	Cornus alba 'Bailhala'	Ivory Halo™ Dogwood	3	–	5'x5'	#5 gal.	13	No	No	M	C5 LP701
COR SER 'ALL'	Cornus sericea 'Alleman's Compact'	Alleman's Compact Red Osier Dogwood	3	–	5'x5'	#5 gal.	14	No	No	M	C5 LP701
POT FRU 'JAC'	Potentilla fruticosa 'Jackmanii'	Jackman Shrub Cinquefoil	2	–	4'x4'	#2 gal.	29	No	Yes	L	C5 LP701
RHU ARO 'GLO'	Rhus aromatica 'Grow Low'	Grow Low Sumac	4	–	30"x8"	#5 gal.	5	No	Yes	L	C5 LP701
SYM ORE	Symphoricarpos oreophila	Mountain Snowberry	3	–	4'x4'	#5 gal.	16	Yes	Yes	L	C5 LP701

## GRASSES

## PERENNIALS



## MATERIALS



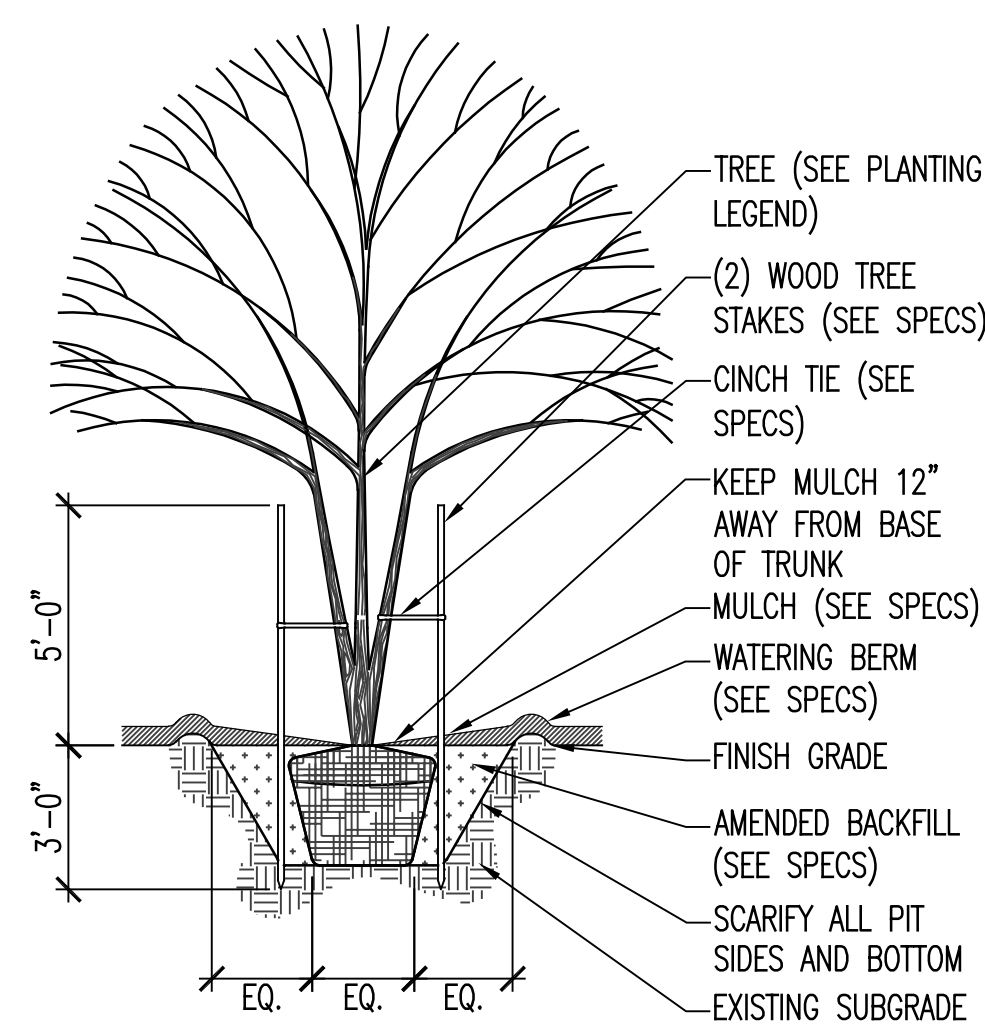
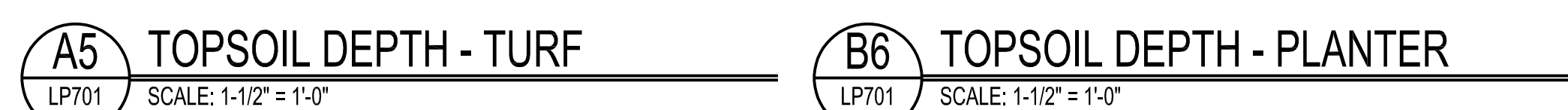
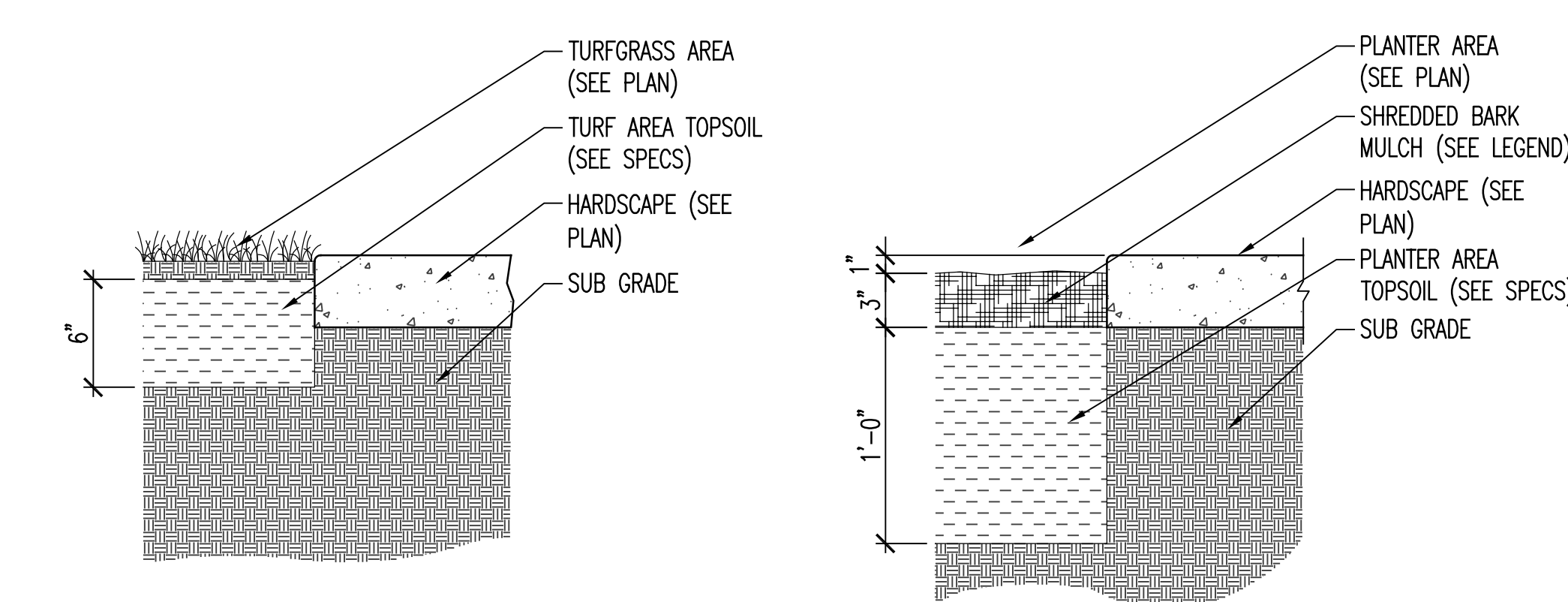
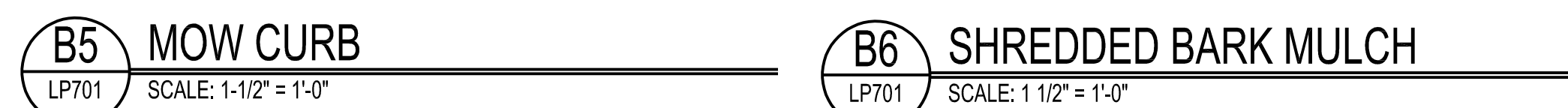
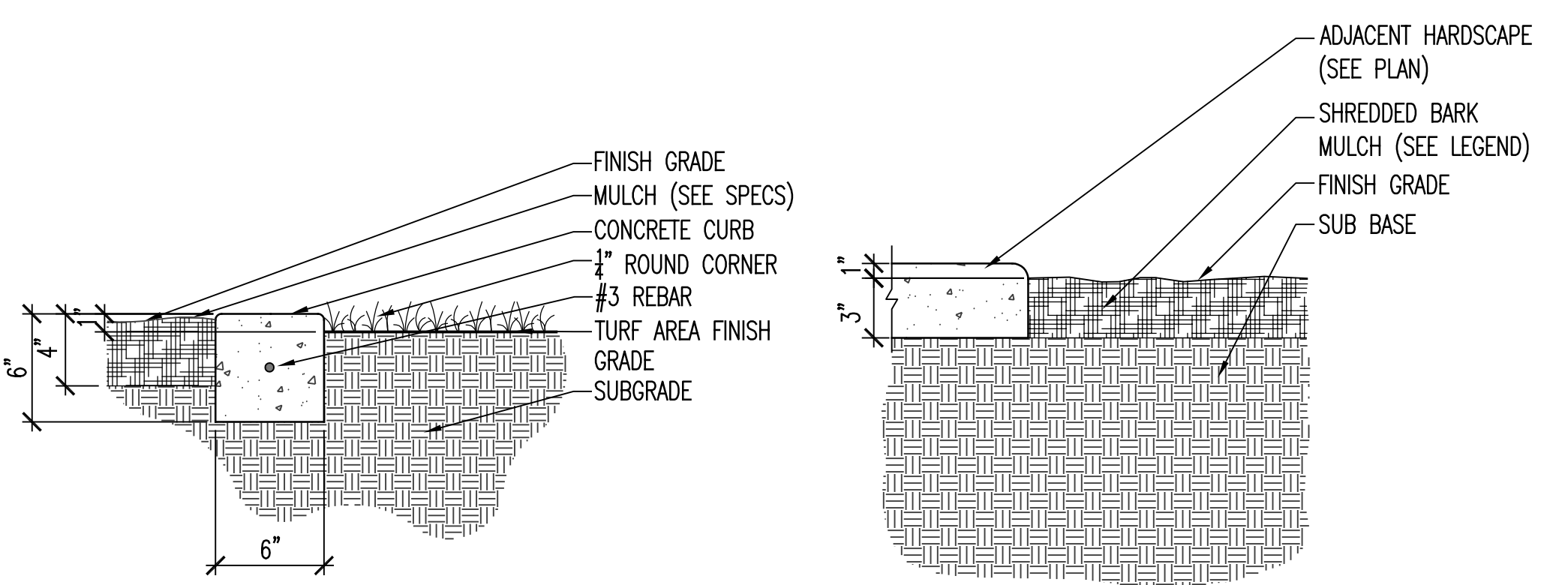
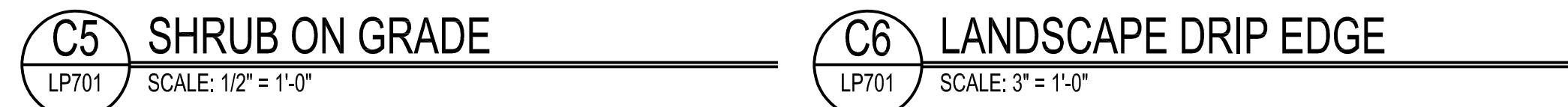
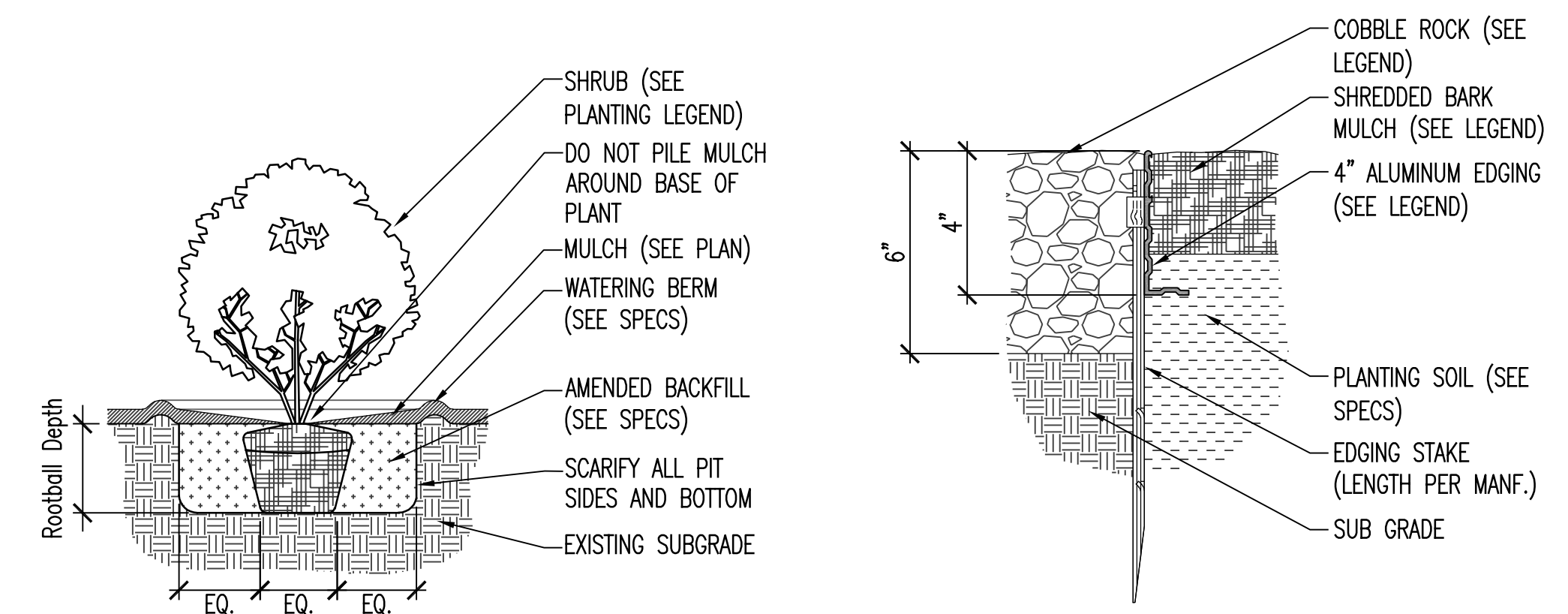
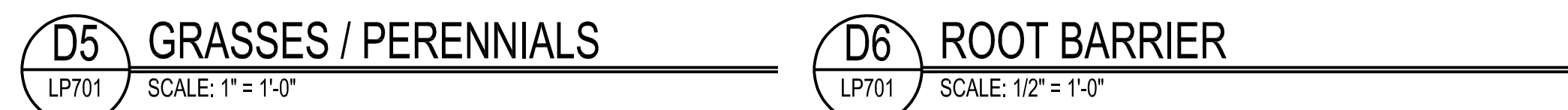
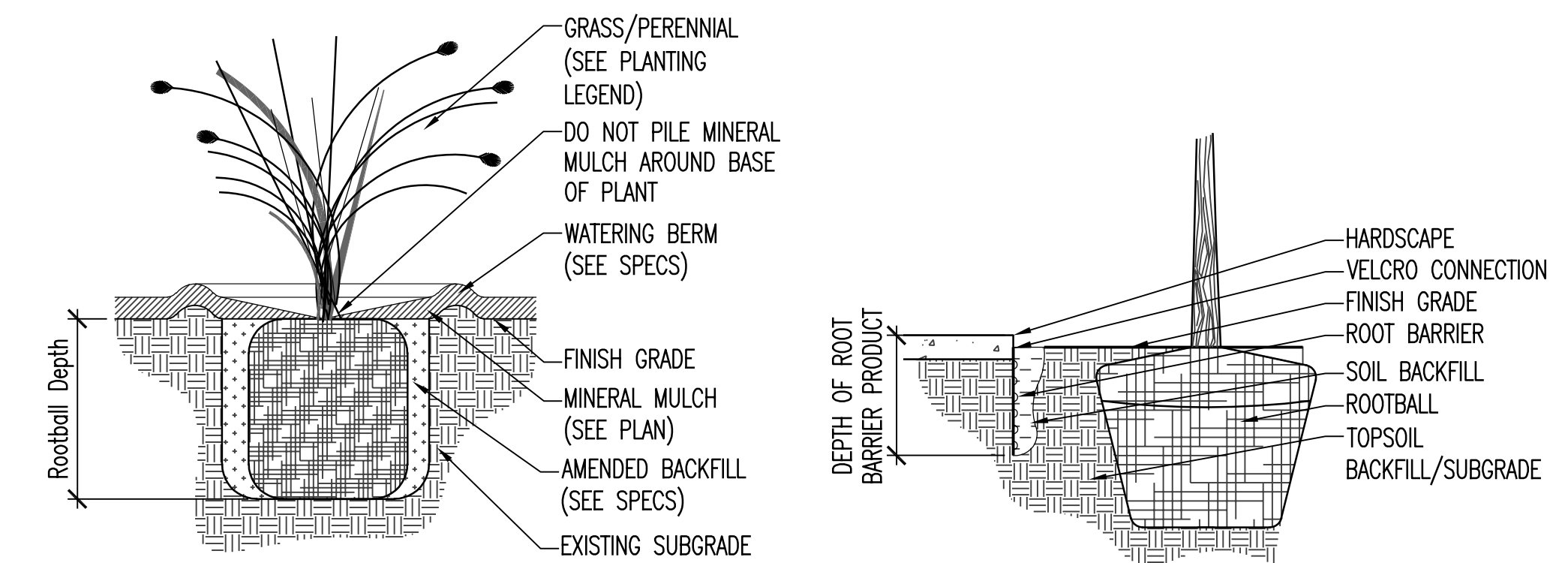
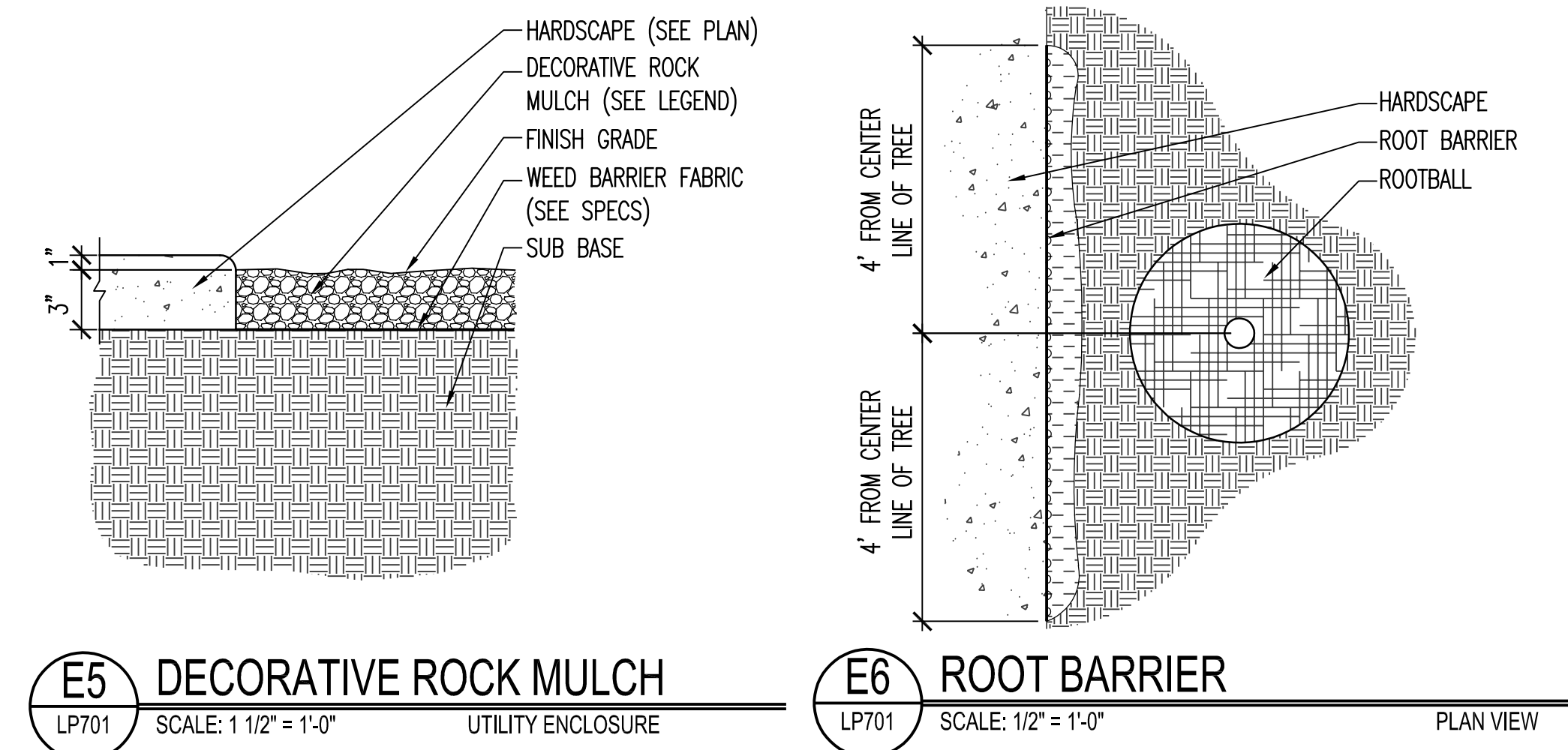


# CONSTRUCTION DOCUMENTS

EXUS PROJ. #: 180  
CHECKED BY: AK  
DRAWN BY: AK  
DATE: 08.09.

## LANTING DETAILS

# LP701



- FOR B&B TREES, UNTIE ROPE AND REMOVE TOP  $\frac{1}{3}$  OF BURLAP.  
FOR NON-BIO-DEGRADABLE MATERIAL, REMOVE ALL WRAPPING.
- FOR TREES LOCATED WITHIN 4' OF HARDSCAPE, SEE ROOT BARRIER  
DETAIL





C:\Users\Troy\Documents\S-16 121-MC Recreation Center-2018\_troy@nexusengineers.com

A

C

D

E

## STRUCTURAL NOTES:

### A. GENERAL

- THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
- THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
- THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS' DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS' DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
- OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS' FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DRAWINGS AND DOCUMENTS.
- TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
- DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING SHALL BE IN ACCORDANCE WITH THE IBC, THE TYPE AND FREQUENCY OF INFORMATION. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
- NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE. FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.

### B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- THE DESIGNATED SEISMICWIND SYSTEMS AND SEISMICWIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEETS S002 AND S003.
- SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE CODES. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND CONDUCT SPECIAL INSPECTIONS AND TESTING.
- ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
- STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE DISTRIBUTION LIST FOR THE IBC, THE TYPE AND FREQUENCY OF INFORMATION. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
- IN ACCORDANCE WITH 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMICWIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMICWIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".

### C. BASIS OF DESIGN

- GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015
- SEISMIC CATEGORY: D
- SUSPENDED FLOOR LOADS:
  - LIVE LOAD = 50 PSF (OFFICE), 100 PSF (STAIRS)
  - DEAD LOAD = 15 PSF
- ROOF LOADS:
  - FLAT-ROOF SNOW LOAD,  $S_f$ : 97 PSF
  - GROUND SNOW LOAD,  $S_g$ : 139 PSF
  - SNOW EXPOSURE FACTOR,  $C_e$ : 1
  - SNOW LOAD IMPORTANCE FACTOR,  $I_s$ : 1
  - THERMAL FACTOR,  $C_t$ : 1
- WIND DESIGN:
  - BASIC WIND SPEED (3 SECOND GUST): 115 MPH
  - WIND EXPOSURE: C
  - COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10.
- SEISMIC DESIGN:
  - SEISMIC IMPORTANCE FACTOR,  $I_p$ : 1
  - SITE CLASS: D
  - MAPPED SPECTRAL RESPONSE ACCELERATIONS:  $S_{S1} = 0.624$ ,  $S_{S2} = 0.209$
  - SPECTRAL RESPONSE COEFFICIENTS:  $S_{DS} = 0.541$ ,  $S_{D1} = 0.276$
  - SEISMIC DESIGN CATEGORY: D
  - BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAME WOOD SHEARWALLS WITH PLYWOOD SHEATHING
  - DESIGN BASE SHEAR:  $V_{UB} = C_u \times W$ ,  $V_{UBW} = C_u \times W$
  - SEISMIC RESPONSE COEFFICIENT,  $C_u$ : 0.083
  - RESPONSE MODIFICATION FACTOR,  $R$ : 6.5
  - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

### D. FOUNDATION

- DESIGN SOIL PRESSURE: 1800 PSF (800 PSF MN)
- SOILS REPORT BY: IGES
- REPORT #: 02763-001
- DATED: March 29, 2018
- SOIL PREPARATION UNDER FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
- TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM OF 42 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
- ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
- UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS.
- UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.) WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON EACH SIDE.

### E. CONCRETE

- ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW.
  - FOOTINGS, GRADE BEAMS, FOUNDATION WALLS:
    - WHERE THE TOP OF THE ELEMENT IS EXPOSED (EXPOSURE CATEGORY F1):
      - 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
      - MAXIMUM W/C RATIO: 0.45
      - MAXIMUM AGGREGATE SIZE: 1"
      - AIR CONTENT: 5% +/- 1.5%
    - WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED (EXPOSURE CATEGORY F0):
      - 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
      - MAXIMUM W/C RATIO: 0.45
      - MAXIMUM AGGREGATE SIZE: 1"
      - AIR CONTENT: 4.5% +/- 1.5%
  - RETAINING WALLS (EXPOSURE CATEGORY F0):
    - 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
    - MAXIMUM W/C RATIO: 0.45
    - MAXIMUM AGGREGATE SIZE: 1"
    - AIR CONTENT: 4.5% +/- 1.5%
  - INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0):
    - 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
    - MAXIMUM W/C RATIO: 0.45
    - MAXIMUM AGGREGATE SIZE: 1"
    - AIR CONTENT: 4.5% +/- 1.5%
  - EXTERIOR SLABS (DOCKS, ETC.) (EXPOSURE CATEGORY F1):
    - 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
    - MAXIMUM W/C RATIO: 0.45
    - MAXIMUM AGGREGATE SIZE: 1"
    - AIR CONTENT: 4.5% +/- 1.5%
  - WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
  - NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
  - REFER TO ARCHITECTURAL DRAWINGS FOR MOLS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE. ANNOTATION OF DEPRESSIONS SHALL BE MADE IN THE PLANS.
  - UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

THICKNESS	TOP & BOTTOM BARS	HORIZONTAL
6"	(1) #5	#4 AT 18" O.C.
8"	(2) #5	#4 AT 18" O.C.
10"	(2) #5	#4 AT 12" O.C.
12"	(2) #5	#4 AT 18" O.C. EA FACE
14"	(2) #5	#4 AT 18" O.C. EA FACE
  - UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	TOP & BOTTOM BARS	HORIZONTAL
4" THICK - #3 AT 18" O.C. EACH WAY		
6" THICK - #4 AT 18" O.C. EACH WAY		
  - UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING. TOP
  - CONSTRUCTION ON TOP OF THE BEAM SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. JOINTS SHALL BE REINFORCED THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD-CONSTRUCTION JOINTS FOR SLABS ON GRADE.
  - UNLESS NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

### F. ANCHOR BOLTS/EMBEDDED BOLTS

- ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISI SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE IF STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
  - AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE SPECIFICATIONS FOR MORE INFORMATION.
  - AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
- SEE TYPICAL ANCHOR BOLT DETAIL FOR REINFORCEMENTS.
- FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
- 12"12" x 8" x 18"
- WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

### G. ADHESIVE/MECHANICAL ANCHORS

- ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED ABOVE, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. MINIMUM
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
- UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP HOLES.
- CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
- INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 308.1R-13 D 9.2.2. REPORT OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
- UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
  - HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200 (ESR-3187)
  - SIMPSON SET-XP (ESR-2508), OR AT-XP (ER-0263)
  - DEWALT PURE 100+ (ESR-2322), OR ACT100+ GOLD (ESR-2592-COLD WEATHER).
- UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
  - HILTI KWIK BOLT TZ (ESR-1917)
  - DEWALT POWER STUD+ 302 (ESR-2502)
  - SIMPSON STRONG-BOLT 2 (ESR-3037)
- UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
  - SIMPSON TITEN HD (ESR-2713)
  - DEWALT SCREWBOLT+ (ESR-2526)
  - HILTI KWIK HUS-EZ (ESR-3027)
- THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOLIDIFYING CONCRETE BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO FLOOR JOISTS.
- SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.

### H. REINFORCING STEEL

- REINFORCING BAR STRENGTH REQUIREMENTS:
  - ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1084 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
- STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
- ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
  - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: .... 3"
  - EXPOSED TO EARTH OR WEATHER:
    - #6 & LARGER: .... 2"
    - #8 & SMALLER: .... 1-1/2"
  - NOT EXPOSED TO WEATHER OR EARTH:
    - SLABS, WALLS, JOISTS, #11 & SMALLER: .... 3/4"
    - BEAMS, COLUMNS, MAIN REINFORCING OR TIES: .... 1-1/2"
  - SLABS ON GRADE:
    - PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
- EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT JOINTS OF MINIMUM STRESS BY LAPSPICE PER THE REBAR LAP SCHEDULE.
- REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
- ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
- DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
- REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBBIES.
- UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318-11R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

### I. STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
  - ANSI/AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
  - AISC 308-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
  - AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
  - AISC "SPECIFICATION FOR STRUCTURAL TUBES".
  - AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISI).
  - ANSI/AISC 341-10 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
  - WIDE FLANGE SHAPES AND WT SHAPES - ASTM A992
  - OTHER SHAPES AND PLATES - ASTM A36, DOUBLE RAIL, A325 OR A490 BOLTS
  - TUBES (TS) AND HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE B (SQUARE AND RECTANGULAR SHAPES  $F_y = 46$  KSI) AND ROUND SHAPES  $F_y = 42$  KSI)
  - PIPE COLUMNS - ASTM A-53, GRADE B TYPE S
  - DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1
  - HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B". USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
  - THREADED ROD - ASTM A-449
  - NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
- CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
- SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.
- WELDING:
  - ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSIAWS D1.1 (LATEST EDITION).
  - USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS.
  - ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN USE THE FOLLOWING:
    - WHERE ALL CONNECTED PARTS ARE THICKER THAN 1/4", WELD IS 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.
    - WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD IS SAME AS THICKNESS OF THE THINNEST PART.
  - WELDING OF HSA'S AND DBA'S SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
  - WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR, THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
- BOLTING:
  - UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325.
  - UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SAME PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
  - WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE.
  - BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.
  - WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISI STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
- UNLESS NOTED OTHERWISE, WHERE STEEL BEAMS SUPPORT WOOD FRAMING OR WOOD SHEATHING, PROVIDE A CONTINUOUS DOUBLE 2x OR SINGLE 3x NAILER PLATE ON THE TOP OF THE BEAM THAT EXTENDS AT LEAST THE FULL WIDTH OF THE BEAM FLANGE. ATTACH NAILER PLATES TO WIDE-FLANGE BEAMS WITH 1/2" DIAMETER THRU BOLTS AT 24" O.C. - STAGGERED. COUNTER-SINK HEAD OF BOLTS INTO TOP OF NAILER PLATE TO PROVIDE A FLUSH BEARING SURFACE.
- ALL COLUMNS ADJACENT TO OR EMBEDDED IN WOOD STUD WALLS SHALL HAVE (1) 1/2" DIAMETER X 1-1/2" THREADED STEEL ROD SHOP-WELDED TO THE FLANGE OF THE COLUMN AND EXTENDING EACH WAY INTO THE ADJACENT STUD WALLS. ATTACH ADJACENT WOOD WALL STUDS TO STEEL COLUMN WITH STANDARD NUT AND WASHER AS REQUIRED.
- PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. FLANGE WIDTH - STIFFENER THICKNESS WELD LENGTH:

$< 8 1/4"$	$1/4"$	$3/16"$
$8 1/4" < 8" < 12 1/2"$	$3/8"$	$1/4"$
$12 1/2" < 8" < 18"$	$1/2"$	$1/4"$
- FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
- WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES OF STEEL ROOF, STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
- UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
- UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

### J. TIMBER

- WOOD GRADES (UNLESS NOTED OTHERWISE):
  - ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
    - HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
    - VERTICAL MEMBERS: POST & TRIM MEMBERS: NO. 1.
  - ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.
  - GLULAMINATED BEAMS SHALL BE DOUGLAS-FIR ARCHITECTURAL APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V8.
  - UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

MODULUS OF ELASTICITY	FLEXURAL STRESS RATING
LVL: 1,900,000 PSI	2,600 PSI
PSL: 2,000,000 PSI	2,600 PSI
LSL: 1,500,000 PSI	2,250 PSI
  - ALL WOOD "T" JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
  - SHEATHING SHALL BE APA RATED SHEATHING. EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE:

LOCATION	THICKNESS	PANEL INDEX
WALLS	15/32"	24/0
FLOORS	48/24	48/24
ROOFS	23/32"	40/20
  - INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES. UNO.
  - ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.
  - CONNECTIONS, FASTENERS, AND ADHESIVE:
    - ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
    - UNLESS NOTED OTHERWISE, 10# COMMON NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:
      - BOUNDARY NAILING "BN": 6" O.C. AT ALL ROOF AND FLOOR SHEATHING INTO BEARING WALLS, SHEAR WALLS, AND BLOCKING.
      - PANEL EDGE NAILING "EN": 6" O.C. AT ALL OTHER PLYWOOD PANEL EDGES.
      - PANEL FIELD NAILING "FN": 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
      - NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.
    - ALL WALL SHEATHING SHALL BE FASTENED TO THE WALL FRAMING PER THE WOOD SHEAR WALL SCHEDULE ON SHEET S301.
  - ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

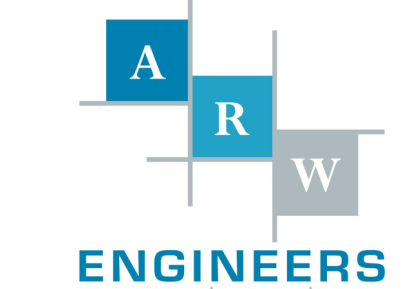
COMMON NAIL SIZE	SHANK DIAMETER	MIN. PENETRATION INTO SUPPORT MEMBER
6d	1/16"	1.25"
8d	0.131"	1.375"
10d	0.148"	1.50"
12d	0.148"	1.50"
16d	0.162"	1.62"
  - A CONTINUOUS BEAD OF PERMANENT BOND TIMBERWOOD ADHESIVE COMPOUND SHALL BE USED TO FILL WITH PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
  - ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA. UNLESS NOTED OTHERWISE.
  - UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32" O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE.
  - WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE.
  - FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL, TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF 16S HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.

Structural Sheet Index		
SHEET NUMBER	SHEET NAME	
S001	STRUCTURAL NOTES	
S002	SCHEDULES	
S003	SCHEDULES	
S101	FOOTING AND FOUNDATION PLAN	
S102	MAIN LEVEL SHEAR WALL & HOLDOWN PLAN	
S103	ROOF FRAMING PLANS	
S201	DETAILS	
S202	DETAILS	
S203	DETAILS	
S204	DETAILS	
S301	DETAILS	
S401	SCHEMATIC REFERENCE	



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1000 Ability Way, Park City, UT 84060

NATIONAL ABILITY CENTER  
RECREATION CENTER  
1000 Ability Way, Park City, UT 84060



# Date Revision

CONSTRUCTION  
DOCUMENT



**S002**



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A

B

C

D

E

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE													
ESTABLISHED PER 2015 IBC SECTION 1705.2.1													
INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)		FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES	INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC								
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE		●		●		1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4. 6. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.3. 7. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH AISC 360-10 CHAPTER N5a AND b. 8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY. 9. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES. OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED. 11. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ PER AISC 360-10 CHAPTER N5e. 12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OR LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD. 13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION. 14. DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUND IN AISC 341-10 AND WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING: a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR REMOVED. b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN SECTION 3.5. c. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA. d. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT UNDER AWS AS CLASSIFICATION TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			●	●		1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS. 6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 7. FOR PRETENSIONING PROCEDURES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		●		●			FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			●	●	●	
MATERIAL IDENTIFICATION (TYPE / GRADE)			●		●		PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			●		●	
WELDER IDENTIFICATION SYSTEM <sup>1</sup>			●		●		PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL			●		●	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)							CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			●		●	
* JOINT PREPARATION							PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		●			●	
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)							PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			●		●	
* CLEANLINESS (CONDITION OF STEEL SURFACES)			●		●		INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
* TACKING (TACK WELD QUALITY AND LOCATION)							FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED			●		●	
* BACKING TYPE AND FIT (IF APPLICABLE)							JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			●		●	
CONFIGURATION AND FINISH OF ACCESS HOLES				●	●		FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			●		●	
FIT-UP OF FILLET WELDS							INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)							DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		●		●		
* CLEANLINESS (CONDITION OF STEEL SURFACES)							INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT (TABLE N6.1)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
* TACKING (TACK WELD QUALITY AND LOCATION)							PLACEMENT AND INSTALLATION OF STEEL DECK		●		●		
CHECK WELDING EQUIPMENT			●				PLACEMENT AND INSTALLATION OF STEEL STUD ANCHORS		●		●		
<sup>1</sup> THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.							DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS		●		●		
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	1. O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. P - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR THOSE ITEMS FOR QUALITY CONTROL (QC) THAT CONTAIN AN OBSERVE DESIGNATION, THE QC INSPECTION SHALL BE PERFORMED BY THE ERECTOR'S QUALITY CONTROL INSPECTOR (QCI). 6. FOR WELDING OF STEEL HEADED STUD ANCHORS, THE PROVISIONS OF AWS D1.1 / D1.1M, APPLY. 7. FOR WELDING OF STEEL DECK, OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL APPLICABLE PROVISIONS OF AWS D1.3 / D1.3M, STRUCTURAL WELDING CODE - SHEET STEEL, SHALL APPLY. DECK WELDING INSPECTION SHALL INCLUDE VERIFICATION OF THE WELDING CONSUMABLES, WELDING PROCEDURE SPECIFICATIONS AND QUALIFICATIONS OF WELDING PERSONNEL PRIOR TO THE START OF THE WORK, OBSERVATIONS OF THE WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL COMPLETED WELDS. FOR STEEL DECK ATTACHED BY FASTENING SYSTEMS OTHER THAN WELDING, INSPECTION SHALL INCLUDE VERIFICATION OF THE FASTENERS TO BE USED PRIOR TO THE START OF THE WORK, OBSERVATIONS OF THE WORK IN PROGRESS TO CONFIRM INSTALLATION IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND A VISUAL INSPECTION OF THE COMPLETED INSTALLATION.	USE OF QUALIFIED WELDERS			●	●		1. O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. P - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR THOSE ITEMS FOR QUALITY CONTROL (QC) THAT CONTAIN AN OBSERVE DESIGNATION, THE QC INSPECTION SHALL BE PERFORMED BY THE ERECTOR'S QUALITY CONTROL INSPECTOR (QCI). 6. FOR WELDING OF STEEL HEADED STUD ANCHORS, THE PROVISIONS OF AWS D1.1 / D1.1M, APPLY. 7. FOR WELDING OF STEEL DECK, OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL APPLICABLE PROVISIONS OF AWS D1.3 / D1.3M, STRUCTURAL WELDING CODE - SHEET STEEL, SHALL APPLY. DECK WELDING INSPECTION SHALL INCLUDE VERIFICATION OF THE WELDING CONSUMABLES, WELDING PROCEDURE SPECIFICATIONS AND QUALIFICATIONS OF WELDING PERSONNEL PRIOR TO THE START OF THE WORK, OBSERVATIONS OF THE WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL COMPLETED WELDS. FOR STEEL DECK ATTACHED BY FASTENING SYSTEMS OTHER THAN WELDING, INSPECTION SHALL INCLUDE VERIFICATION OF THE FASTENERS TO BE USED PRIOR TO THE START OF THE WORK, OBSERVATIONS OF THE WORK IN PROGRESS TO CONFIRM INSTALLATION IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND A VISUAL INSPECTION OF THE COMPLETED INSTALLATION.
CONTROL AND HANDLING OF WELDING CONSUMABLES							* PACKAGING			●		●	
* EXPOSURE CONTROL							* EXPOSURE CONTROL			●		●	
NO WELDING OVER CRACKED TACK WELDS							NO WELDING OVER CRACKED TACK WELDS			●		●	
ENVIRONMENTAL CONDITIONS							* WIND SPEED WITHIN LIMITS			●		●	
* PRECIPITATION AND TEMPERATURE							* PRECIPITATION AND TEMPERATURE			●		●	
WPS FOLLOWED							* SETTINGS ON WELDING EQUIPMENT						
* TRAVEL SPEED							* SELECTED WELDING MATERIALS			●		●	
* SELECTED WELDING MATERIALS							* SHIELDING GAS TYPE / FLOW RATE						
* SHIELDING GAS TYPE / FLOW RATE							* PREHEAT APPLIED						
* PREHEAT APPLIED							* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)						
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)							* PROPER POSITION (F, V, H, OH)						
WELDING TECHNIQUES							* INTERPASS AND FINAL CLEANING				●	●	
* INTERPASS AND FINAL CLEANING						* EACH PASS WITHIN PROFILE LIMITATIONS				●	●		
* EACH PASS WITHIN PROFILE LIMITATIONS						* EACH PASS MEETS QUALITY REQUIREMENTS				●	●		
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR. 2. QA INSPECTION OF THE ERRECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR. 3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QA SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED. 4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERRECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE. 6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERRECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS. 8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. 9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE. 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD. 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR: (1) NONCONFORMANCE REPORTS (2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.	WELDS CLEANED			●	●		1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR. 2. QA INSPECTION OF THE ERRECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR. 3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QA SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED. 4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERRECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE. 6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERRECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS. 8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. 9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE. 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD. 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR: (1) NONCONFORMANCE REPORTS (2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.
SIZE, LENGTH AND LOCATION OF WELDS		●		●	●		* CRACK PROHIBITION						
WELDS MEET VISUAL ACCEPTANCE CRITERIA							* WELD / BASE-METAL FUSION						
* CRACK PROHIBITION							* CRATER CROSS SECTION						
* WELD / BASE-METAL FUSION							* WELD PROFILES		●		●		
* CRATER CROSS SECTION							* WELD SIZE						
* WELD PROFILES		●		●			* UNDERCUT						
* WELD SIZE							* POROSITY						
* UNDERCUT							ARC STRIKES		●		●		
* POROSITY							K-AREA <sup>1</sup>		●		●		
ARC STRIKES		●		●			BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		●		●		
K-AREA <sup>1</sup>		●		●			REPAIR ACTIVITIES		●		●		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		●		●			DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		●		●		
REPAIR ACTIVITIES		●		●									
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		●		●									
<sup>1</sup> WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.)													

#### GENERAL STEEL SPECIAL INSPECTION NOTES :

1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.
2. QA INSPECTION OF THE ERRECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QA SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.
4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERRECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.
6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERRECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR



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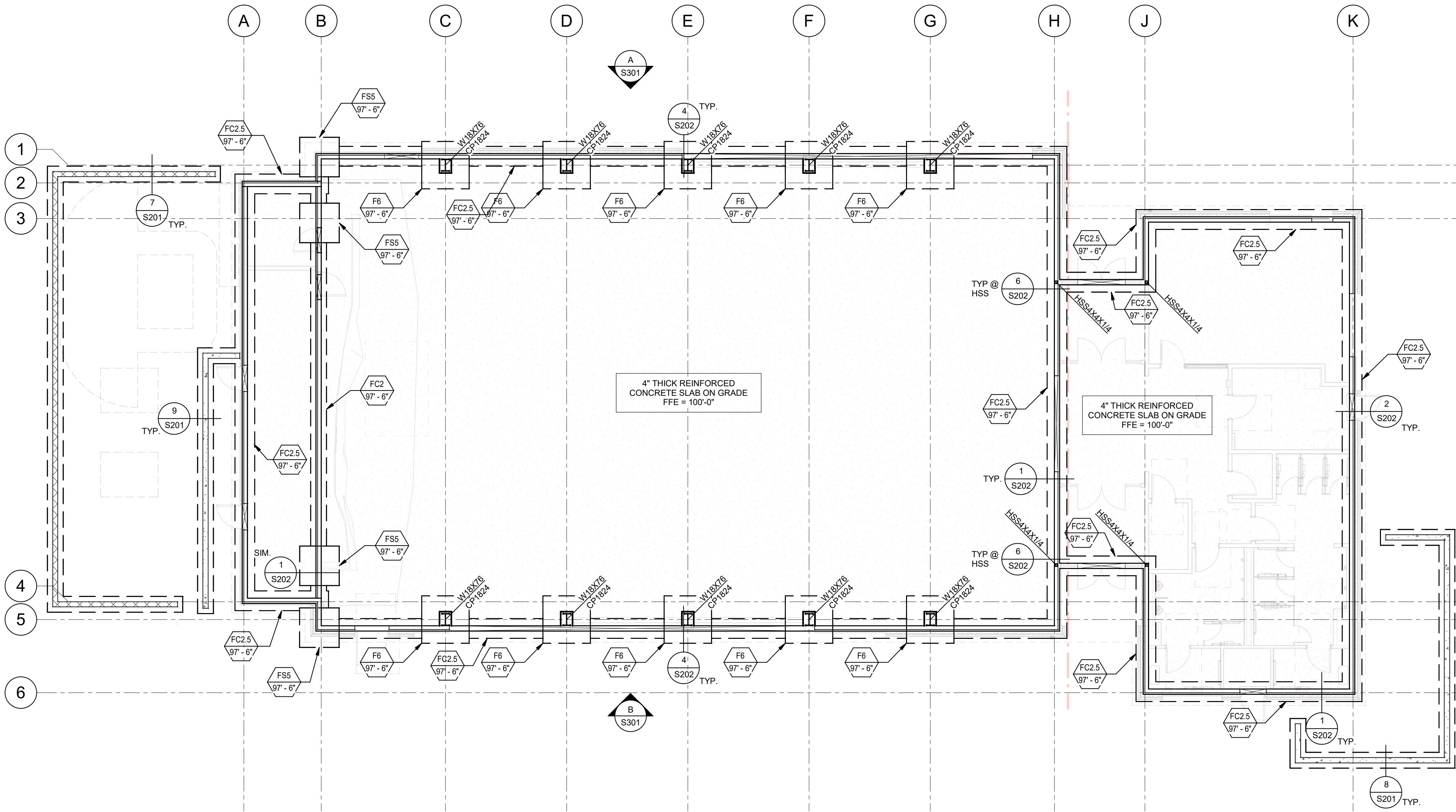
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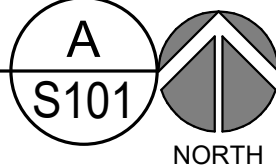
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FOOTING AND FOUNDATION PLAN

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



FOOTING & FOUNDATION NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SEE SHEET S001 FOR FOOTING SCHEDULE.
5. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
6. SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
7. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
8. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
9. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
10. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.

CONCRETE SLAB NOTES :

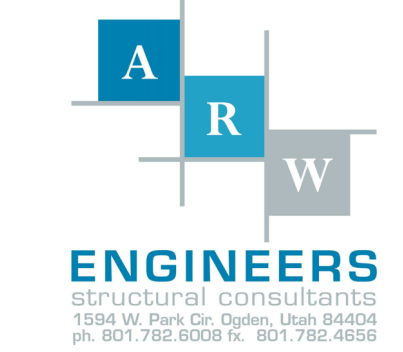
1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET S201 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.



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# Date Revision

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NEXUS PROJ. #: 00000.00  
ARW PROJ. #: 18121  
CHECKED BY: T. Dye  
DRAWN BY: D. Bartelsson  
DATE: 08.09.18

FOOTING AND FOUNDATION PLAN

S101



1

2

3

4

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6

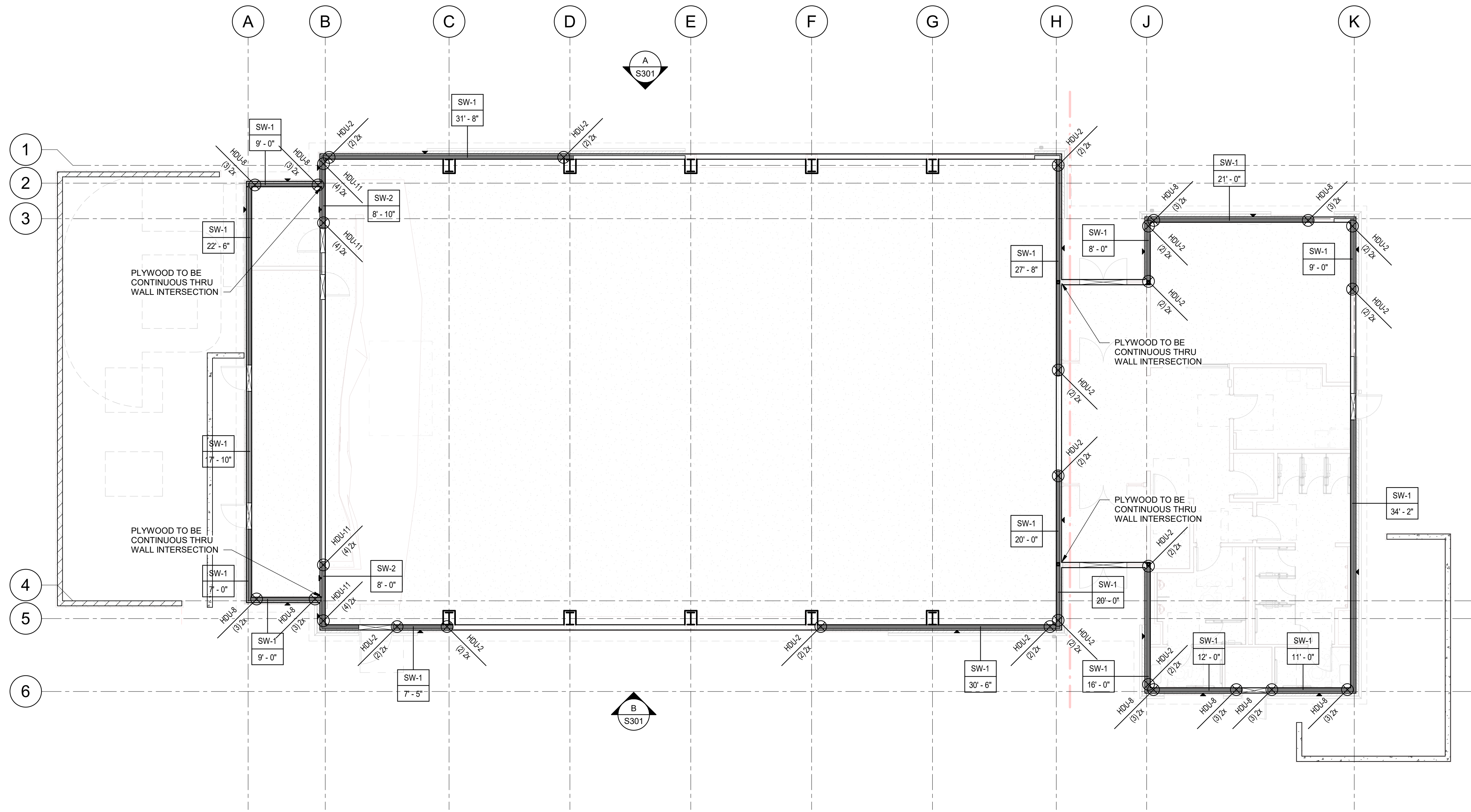
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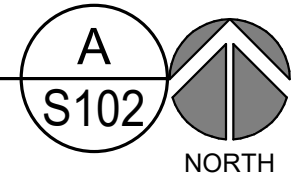
C

B

A



SHEAR WALL AND HOLDOWN PLAN  
SCALE : 1/8" = 1'-0"



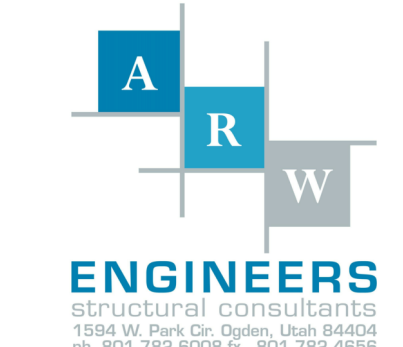
- WOOD FRAMING NOTES:**
- FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S001.
  - SHEAR WALLS ARE INDICATED ON THIS SHEET. SEE THE SHEAR WALL SCHEDULE FOR SHEAR WALL ATTACHMENTS.
  - AT TOP PLATE SPICE, LAP 6'-0" MIN. AND CONNECT WITH MIN (20) 16d COMMON NAILS.
  - U.N.O., ALL EXTERIOR WALLS, INTERIOR BEARING WALLS AND SHEAR WALLS SHALL BE SHEATHED WITH 1.75"x5.5" LVL 2.0 STUDS @ 16"o.c.. OTHER WALLS TO BE AS PER ARCHITECTURAL DRAWINGS.
  - TYPICAL HEADERS WHERE NOT OTHERWISE INDICATED TO BE AS FOLLOWS:  
UP TO 4'-0" OPENING (3) 2x8  
4'-1" TO 5'-6" (3) 2x10  
5'-7" TO 10'-0" (3) 1.75" x 9.25" LVL  
10'-1" TO 14'-0" (3) 1.75" x 11.87" LVL
  - FOR TYPICAL TRIMMERS, WHERE NOT OTHERWISE INDICATED, SEE DETAIL 1/S203
  - FOR TYPICAL KING STUDS, WHERE NOT OTHERWISE INDICATED, SEE DETAIL 1/S203
  - SEE DETAIL 1/S204 FOR PLYWOOD ROOF SHEATHING LAYOUT.
  - CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND ROOF DIAPHRAGM ATTACHMENTS ARE COMPLETE.
  - SEE DETAIL 2/S203 FOR ATTACHMENT OF NON-BEARING WALLS TO PRE-MANUFACTURED TRUSSES.



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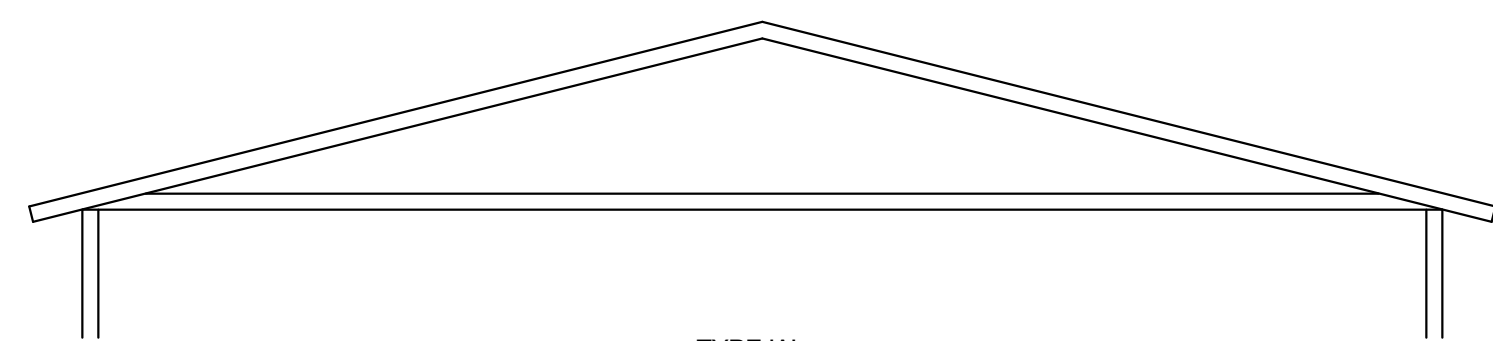
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DRAWN BY: D. Bartelson  
DATE: 08.09.18

**MAIN LEVEL  
SHEAR WALL  
& HOLDOWN  
PLAN**

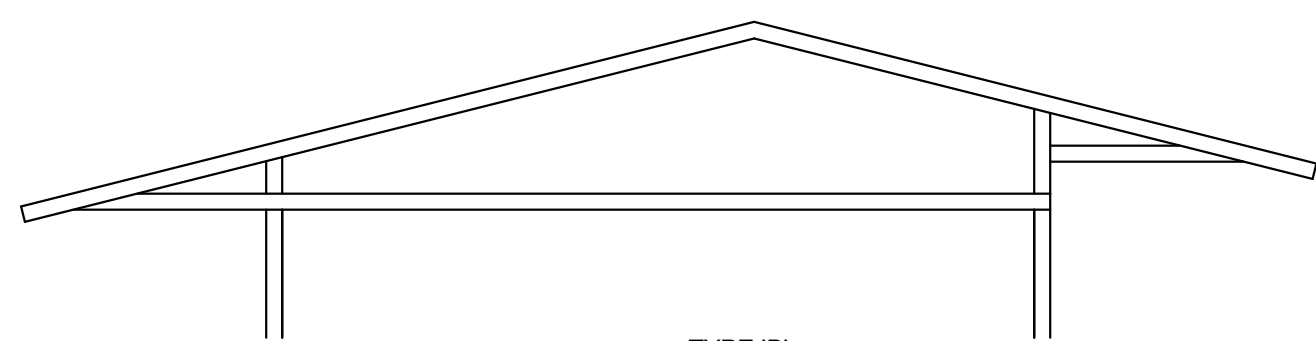
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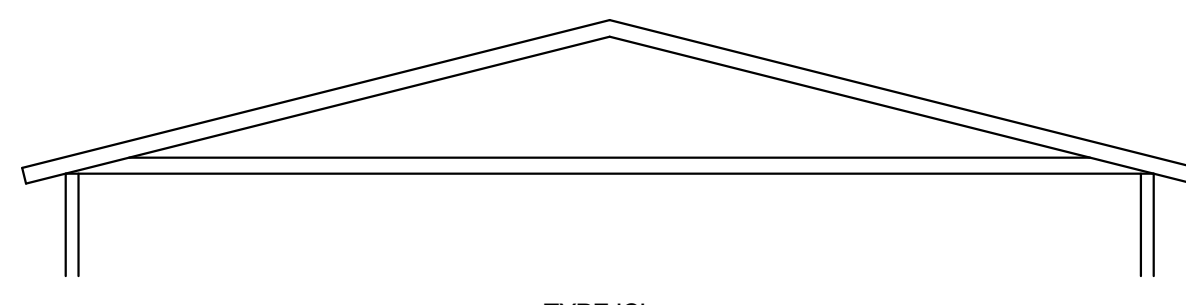
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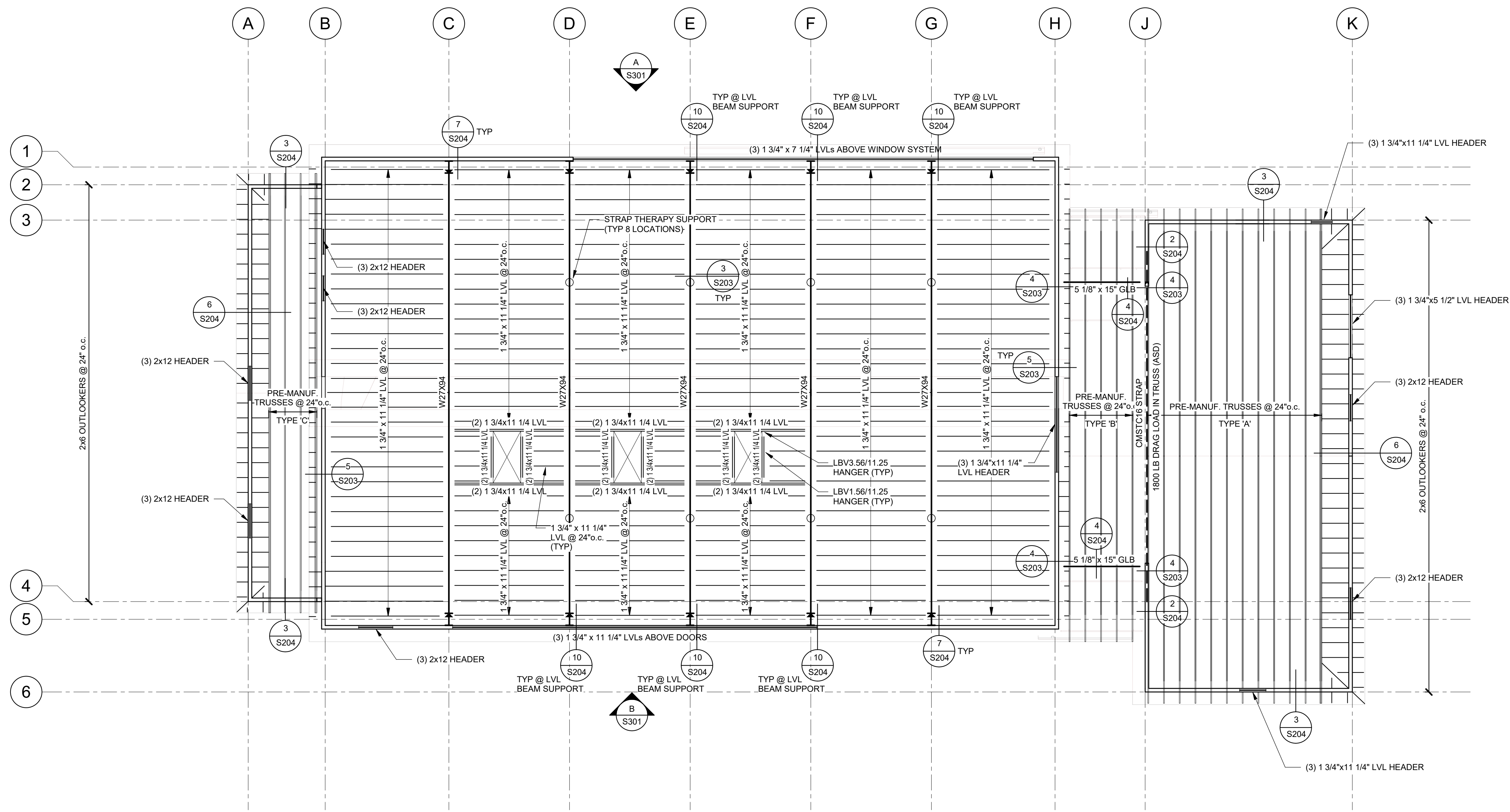
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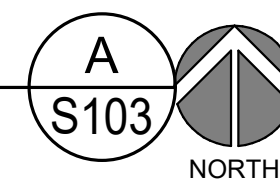
TYPE 'B'



TYPE 'C'



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



**PRE-MANUFACTURED TRUSS NOTES:**

- PRE-MANUFACTURED TRUSSES SHALL BE DESIGNED PER ALL APPLICABLE LOAD COMBINATIONS AND LOAD CONFIGURATIONS AS REQUIRED BY THE GOVERNING CODE AND THE GENERAL STRUCTURAL NOTES:  
  
THE FOLLOWING CRITERIA SHALL BE USED IN DESIGN.  
  
SNOW LOAD = PER GENERAL STRUCTURAL NOTES  
LIVE LOAD = PER GENERAL STRUCTURAL NOTES  
DEAD LOAD = 10 PSF TOP CHORD  
5 PSF BOTTOM CHORD  
WIND LOAD = PER GENERAL STRUCTURAL NOTES  
SNOW DRIFT = AS DETERMINED BY THE TRUSS MANUFACTURER. CONSIDER BALANCED, UNBALANCED AND DRIFT LOCATIONS
- ALL TRUSSES SHALL BE DESIGNED FOR A 150 POUND POINT LOAD APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD. DESIGN ALL TRUSSES FOR WIND UPLIFT PER THE GOVERNING CODE WITH A 8 PSF DEAD LOAD.
- ALL TRUSS TO TRUSS CONNECTIONS PROVIDED BY TRUSS MANUFACTURER. JACK TRUSSES SHALL BE ATTACHED TO HIP JACK TRUSSES WITH A METAL CONNECTOR DESIGNED AND DETAILED IN THE TRUSS SHOP DRAWINGS - AT A MINIMUM USE A SIMPSON LS90 @ EA. CONNECTION.
- TRUSS MANUFACTURER SHALL COORDINATE AND INCLUDE ALL ADD LOADS AS INDICATED ON THE FRAMING PLANS(S).
- COORDINATE DUCT RUNS AND TRUSS WEB CONFIGURATIONS WITH MECHANICAL & ARCH. DRAWINGS. DO NOT FIELD MODIFY TRUSSES TO ACCOMMODATE DUCTING AND OTHER MISCELLANEOUS EQUIPMENT WITHOUT WRITTEN DIRECTION FROM THE TRUSS MANUFACTURER OR STRUCTURAL ENGINEER.
- INSTALL SIMPSON VGT HOLDDOWNS WITH 1000 LBS CAPACITY @ EACH HIP JACK TRUSS & GIRDER TRUSS. TRUSS MANUF. TO VERIFY THAT THIS SIMPSON VGT HOLDDOWN MEETS OR EXCEEDS REQUIRED UPLIFT CAPACITIES FOR ALL TRUSSES DESIGNED. TRUSS MANUF. RESPONSIBLE TO NOTIFY EOR IN WRITING WHERE UPLIFT CAPACITIES ARE EXCEEDED.
- COORDINATE ALLOWABLE TRUSS DEFLECTIONS WITH ARCHITECT FOR DETAILING OF NON-BEARING STUD WALLS BELOW.
- WHERE JACK TRUSSES AND HIP JACK TRUSSES OCCUR, TRUSS MANUFACTURER SHALL DESIGN THE FASCIA BOARD & ITS CONNECTION TO THE TRUSS AROUND THE PERIMETER OF THE ENTIRE BUILDING. THE FASCIA BOARD SHALL BE CAPABLE OF SUPPORTING GRAVITY LOADS (DEAD AND SNOW) AND WIND UPLIFT LOADS.
- DESIGN DRAG TRUSSES FOR ASD LEVEL DRAG LOADS SHOWN ON THE PLANS.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AS REQUIRED BY THE DEFERRED SUBMITTAL SECTION OF THE GENERAL STRUCTURAL NOTES.
- WHERE INDICATED, BLOCK PANEL EDGES OF ROOF SHEATHING WITH FLAT 2X BLOCKING.



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**CONSTRUCTION DOCUMENTS**

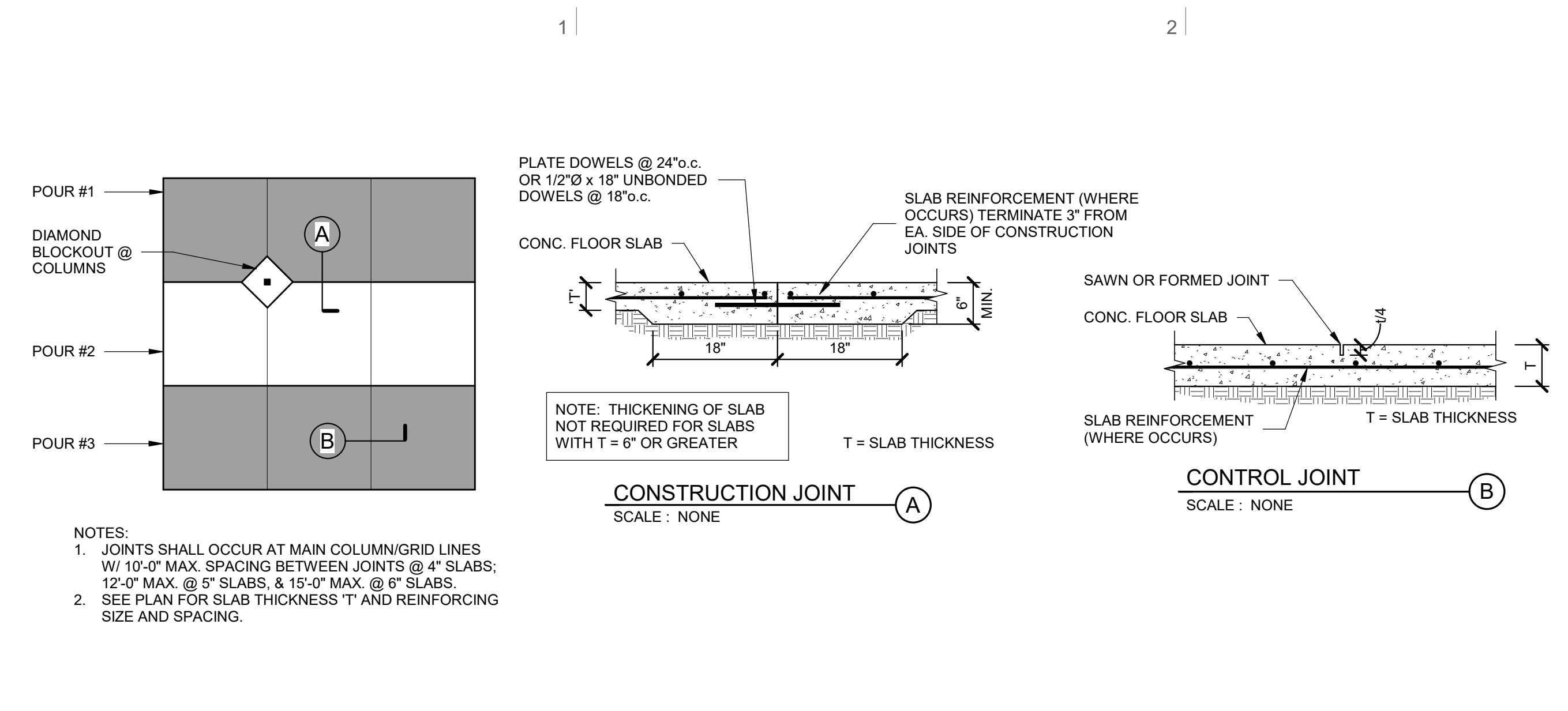
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DRAWN BY: D. Bartelsson  
DATE: 08.09.18

**ROOF FRAMING PLANS**

**S103**



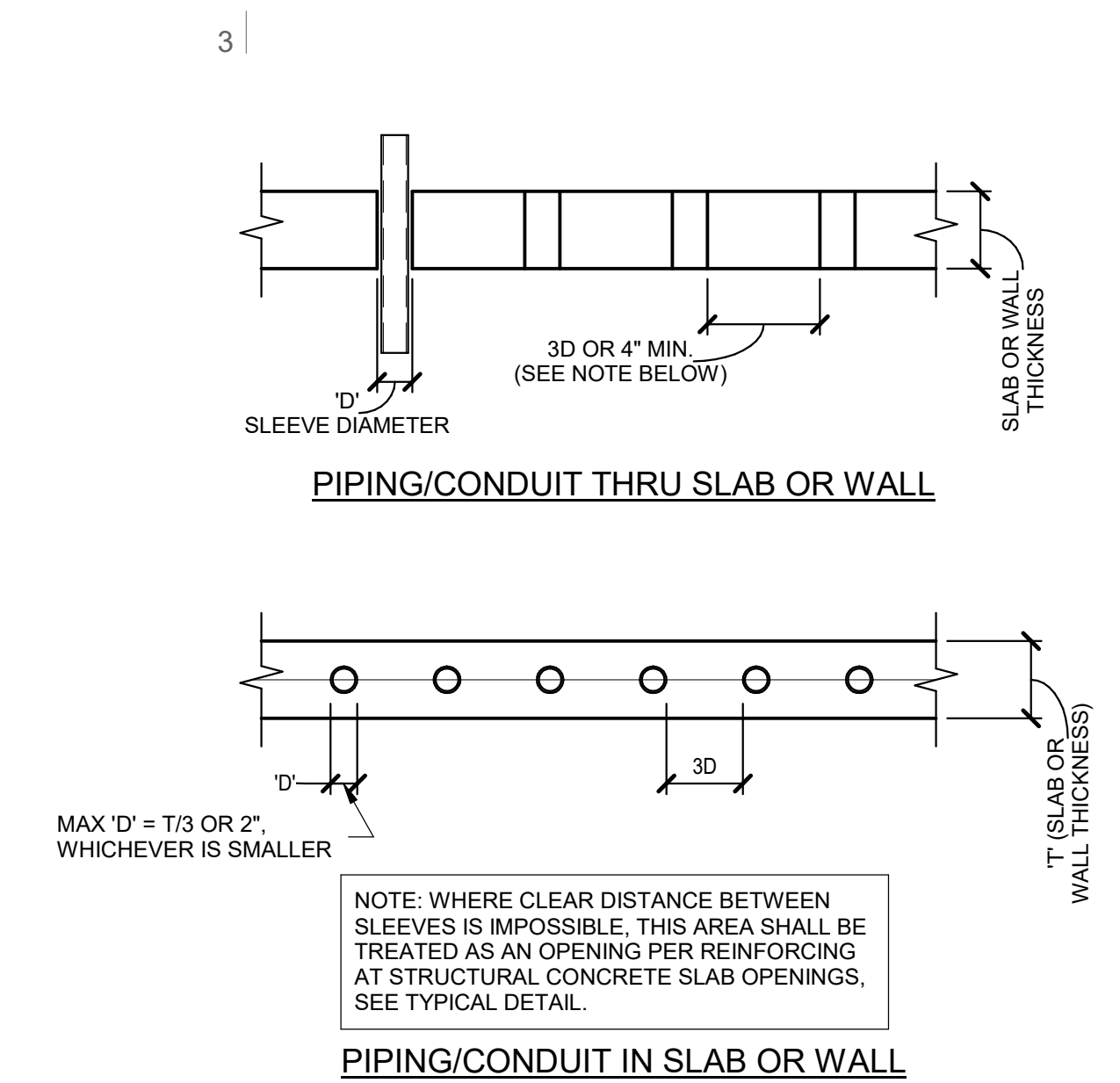
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TYPICAL CONCRETE SLAB JOINTS

SCALE: 3/4" = 1'-0"

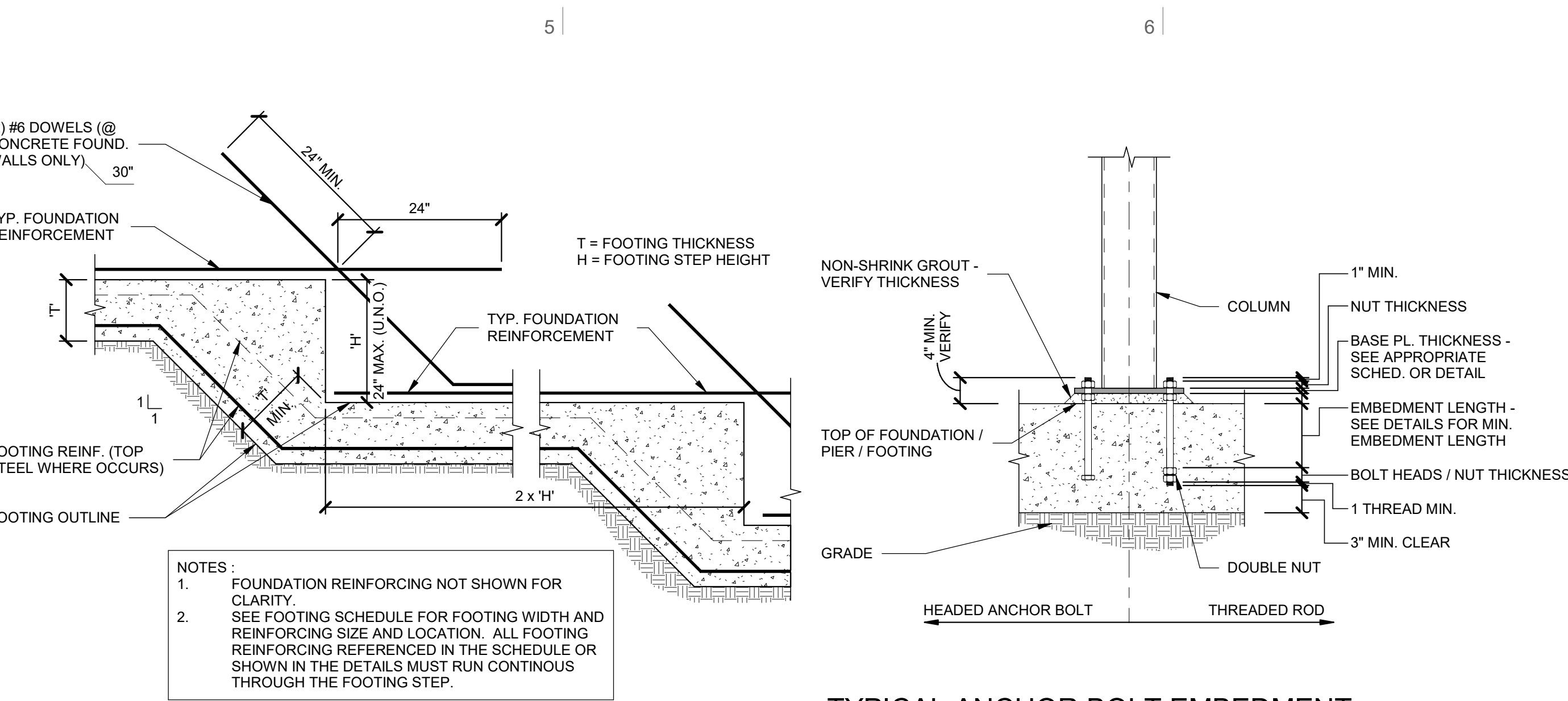
1  
S201



TYP. PIPING/CONDUIT AT SLAB OR WALL

SCALE: NONE

2  
S201



TYPICAL STEPPED FOOTING

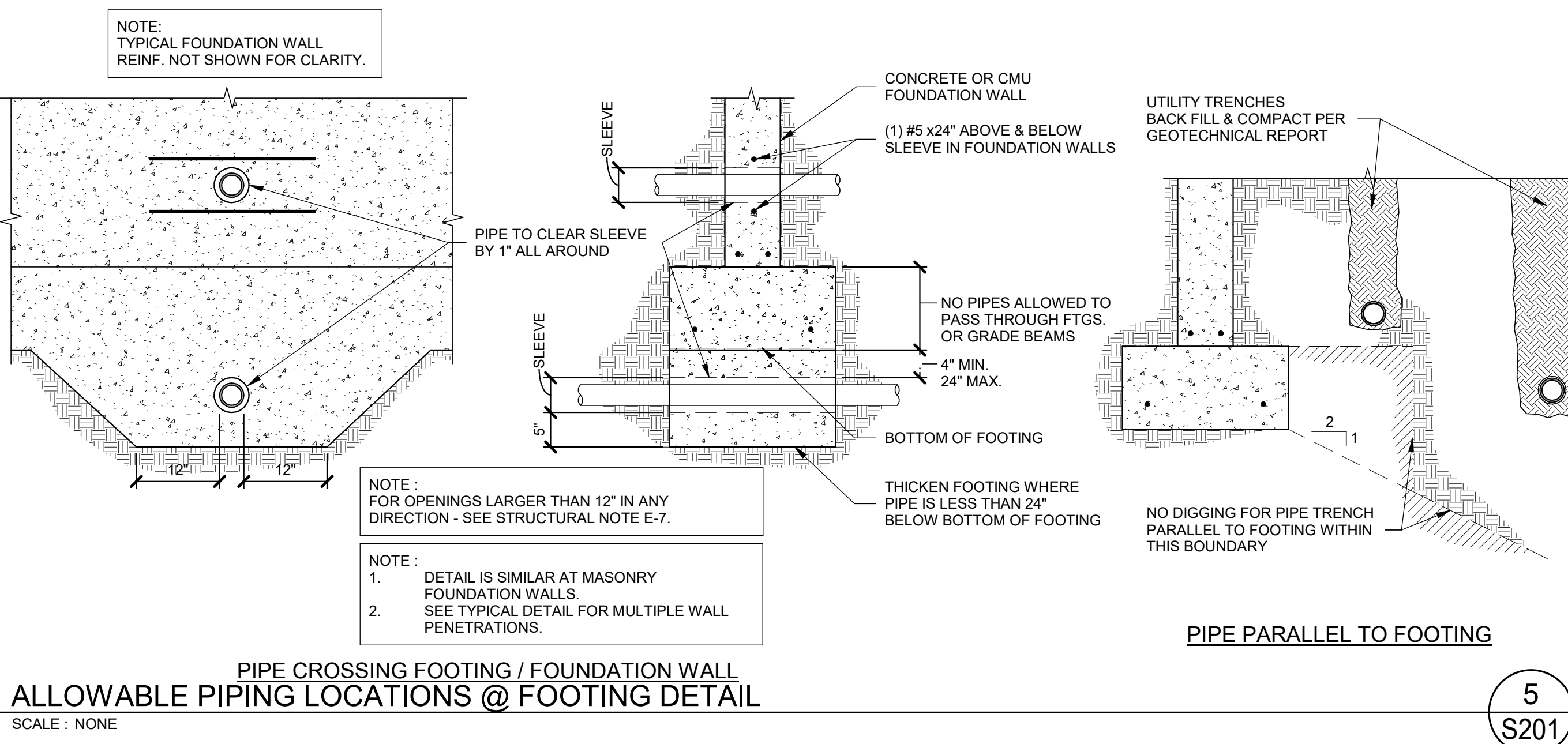
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S201

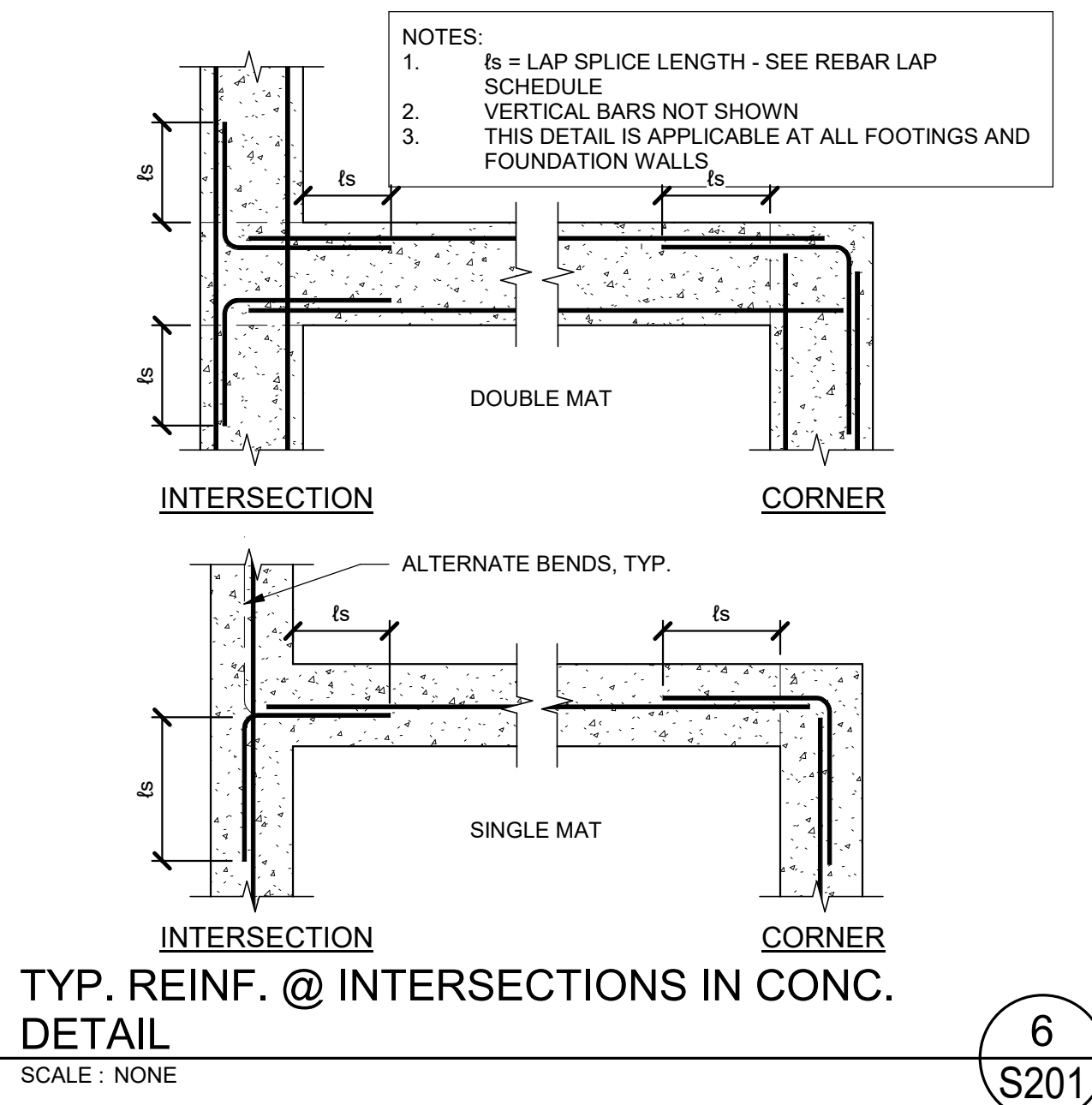
TYPICAL ANCHOR BOLT EMBEDMENT DETAIL

SCALE: NONE

4  
S201



5  
S201



6  
S201

BEAM CONNECTION SCHEDULE							
BEAM DEPTH	PL DIMENSIONS W/ SHORT-SLOTTED HOLES	Lev	Leh	BOLTS W/ STANDARD WASHERS OVER SLOTS		WELD 'A'	COMMENTS
				No.	SIZE		
W8 x. W10 x	PL. 1/4" x 4"	1 1/2"	2"	2	3/4" Ø	3/16"	
W12 x	PL. 5/16" x 4"	1 1/2"	2"	3	3/4" Ø	1/4"	
W14 x 90 & LIGHTER	PL. 5/16" x 4"	1 1/2"	2"	3	3/4" Ø	1/4"	
W16 x 77 & LIGHTER	PL. 5/16" x 4"	1 1/2"	2"	4	3/4" Ø	1/4"	
W18 x 65 & LIGHTER	PL. 5/16" x 4"	1 1/2"	2"	5	3/4" Ø	1/4"	
W21 x 73 & LIGHTER	PL. 5/16" x 4"	1 1/2"	2"	6	3/4" Ø	1/4"	
W24 x 94 & LIGHTER	PL. 3/8" x 4"	1 1/2"	2"	7	7/8" Ø	1/4"	
W27 x 114 & LIGHTER	PL. 3/8" x 4"	1 1/2"	2"	7	7/8" Ø	1/4"	
W30 x 124 & LIGHTER	PL. 1/2" x 4"	1 3/4"	2"	8	1" Ø	5/16"	
W33 x 130 & LIGHTER	PL. 1/2" x 4"	1 3/4"	2"	9	1" Ø	5/16"	
W36 x 160 & LIGHTER	PL. 1/2" x 4 1/2"	2"	2 1/4"	10	1-1/8" Ø	5/16"	

FACE OF COLUMN / BEAM WEB

1 1/2"

1/2"

Leh

1/2"

3" TYP.

Lev

1/2"

1/2"

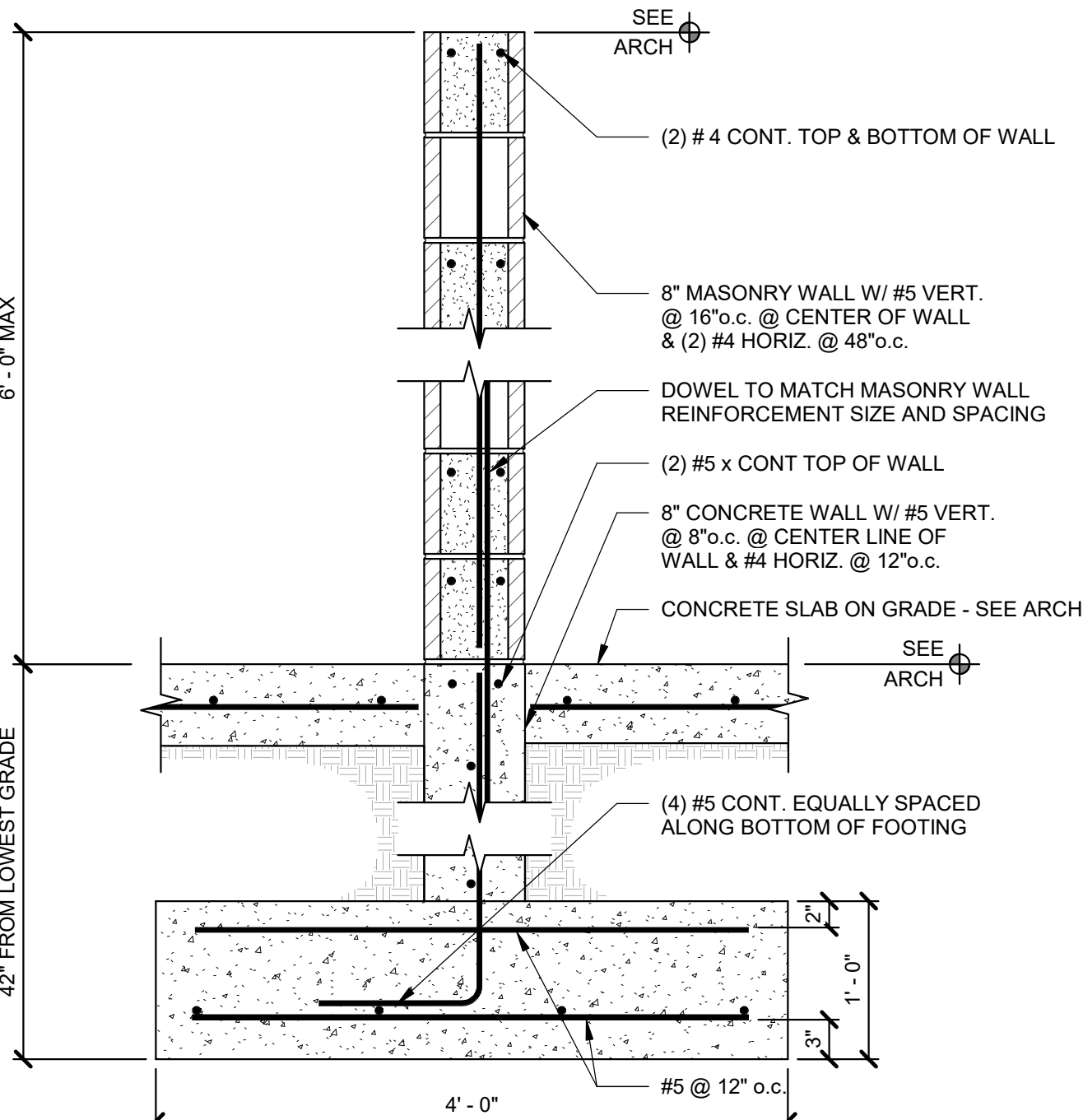
SHEAR PL. - SEE SCHEDULE

SHORT-SLOTTED HOLES IN SHEAR PLATE W/ WASHER PER THE STRUCTURAL NOTES

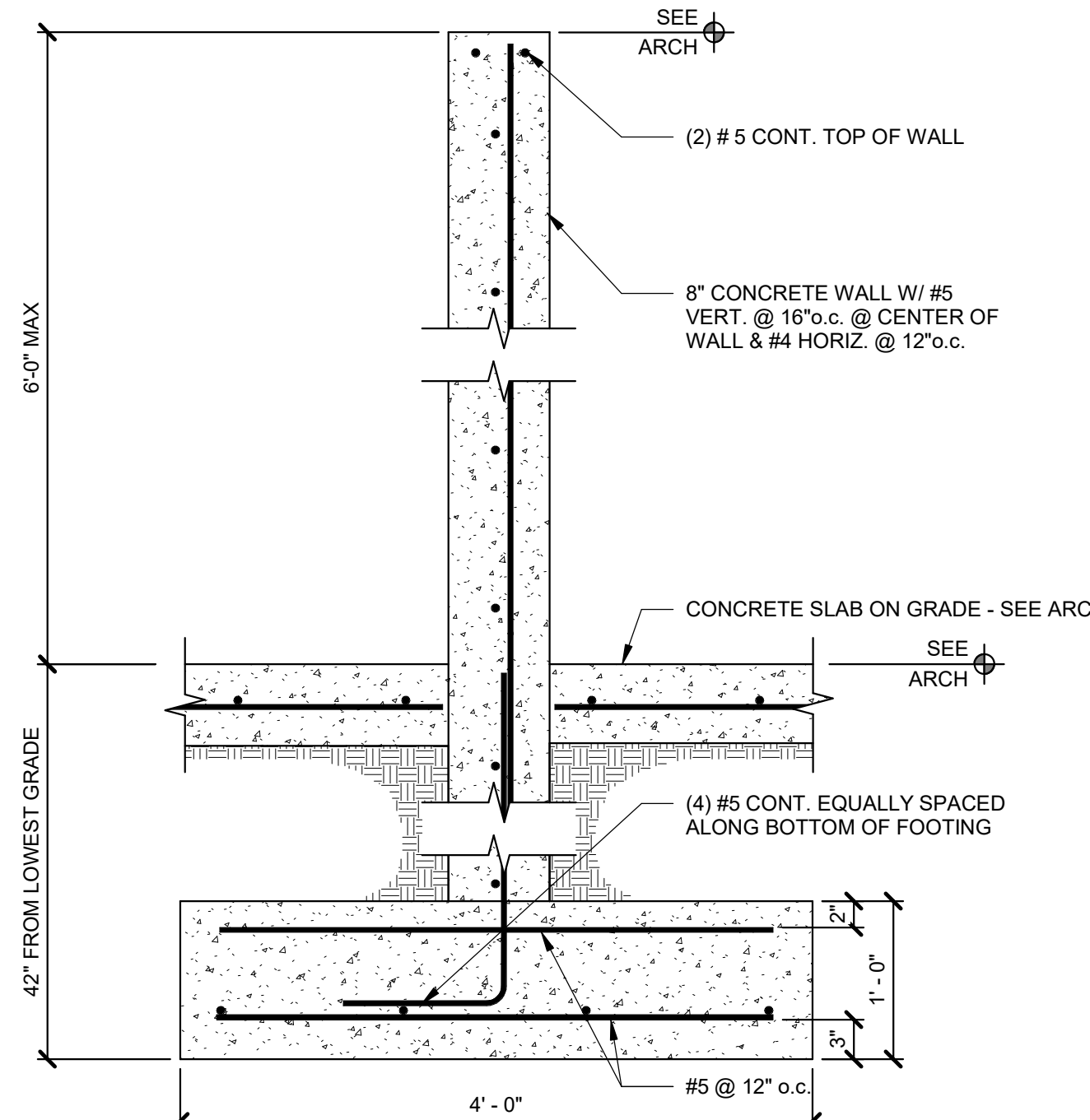
W BEAM - SEE PLAN

'A'

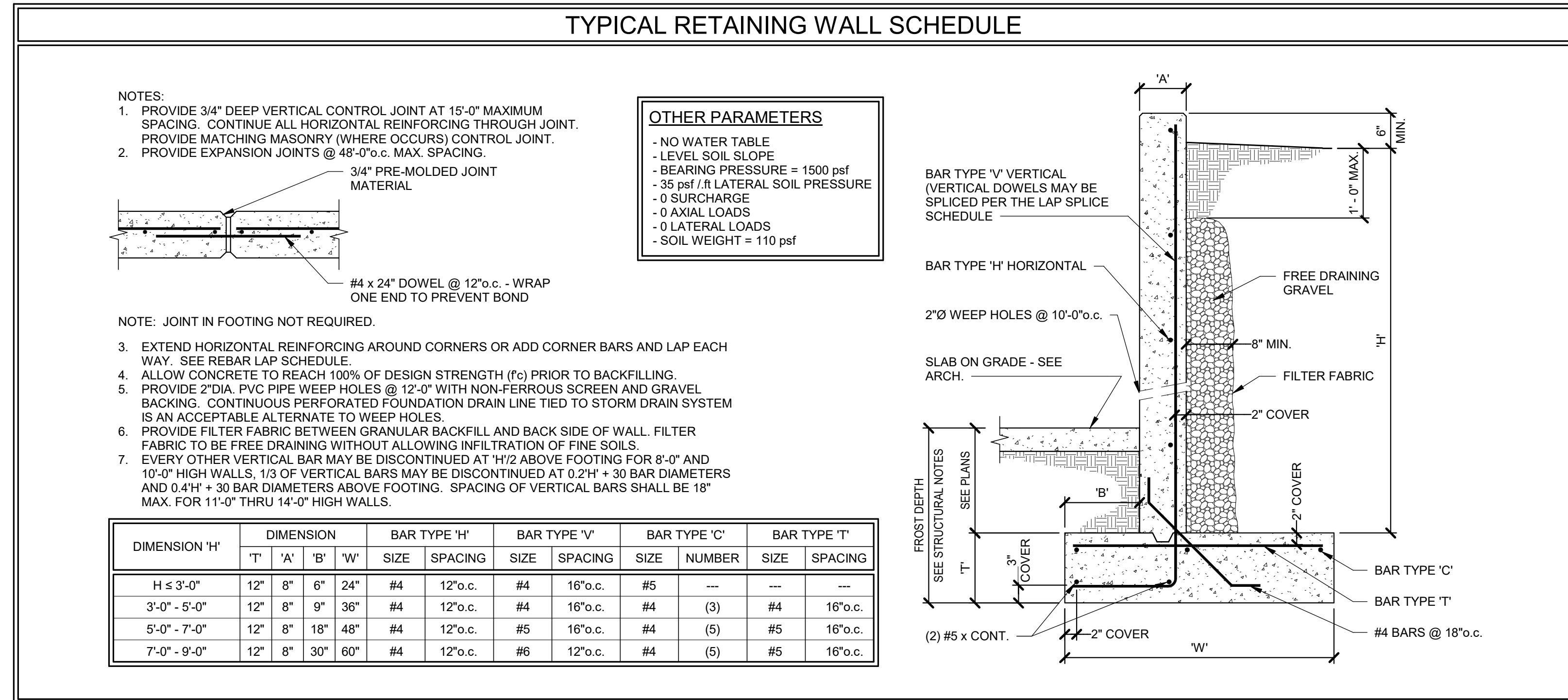
SEE SCHED.



7  
S201



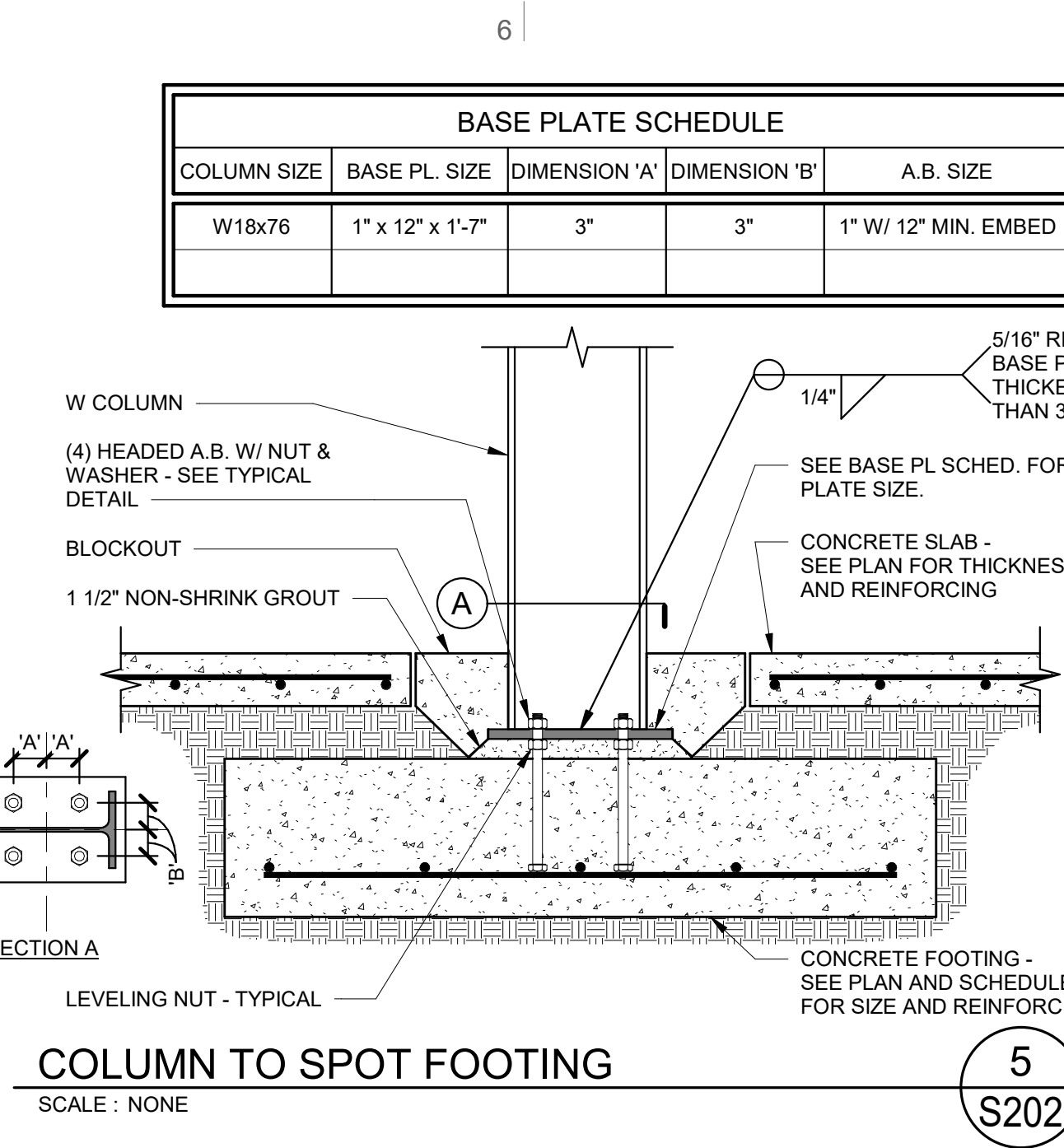
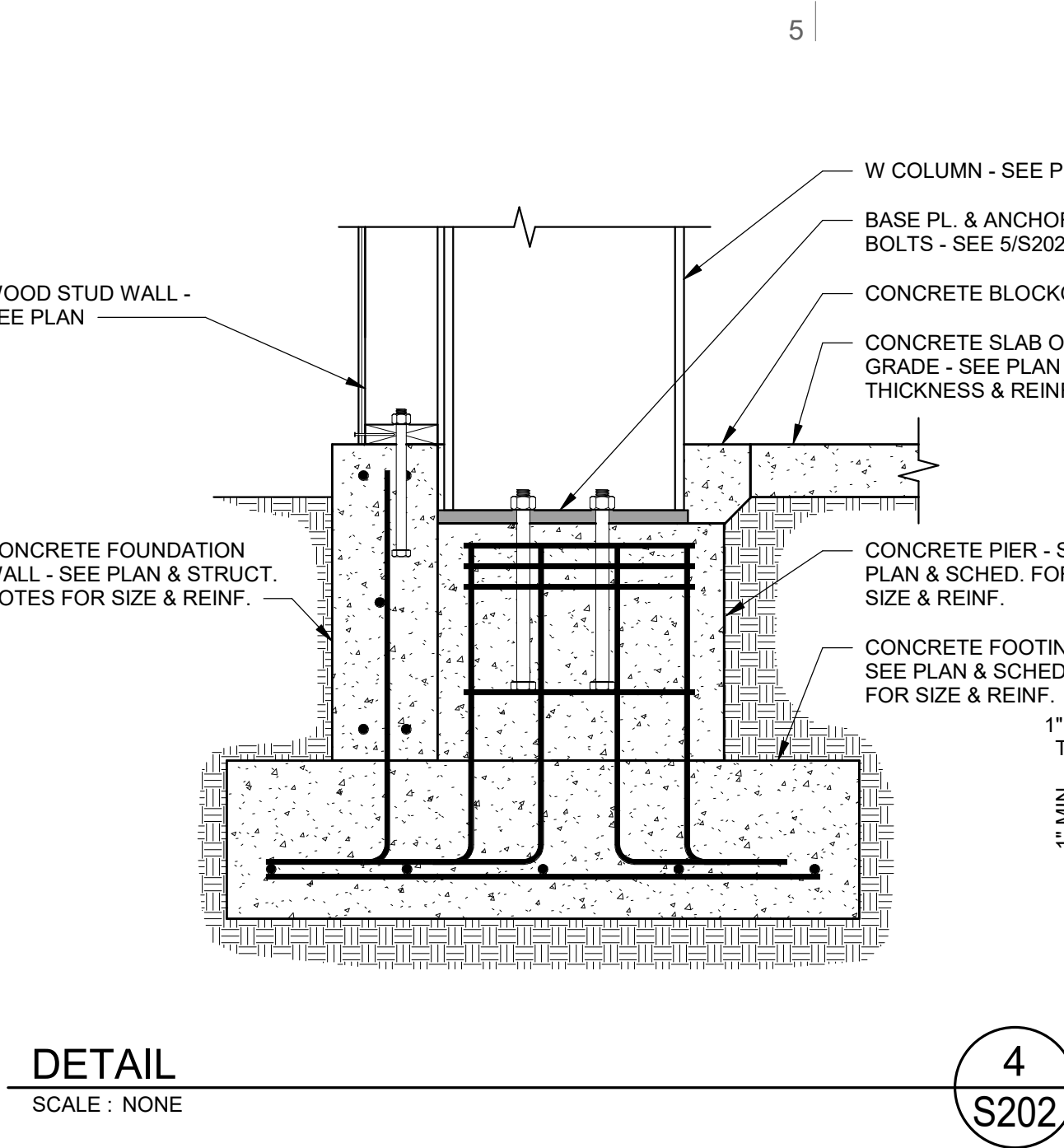
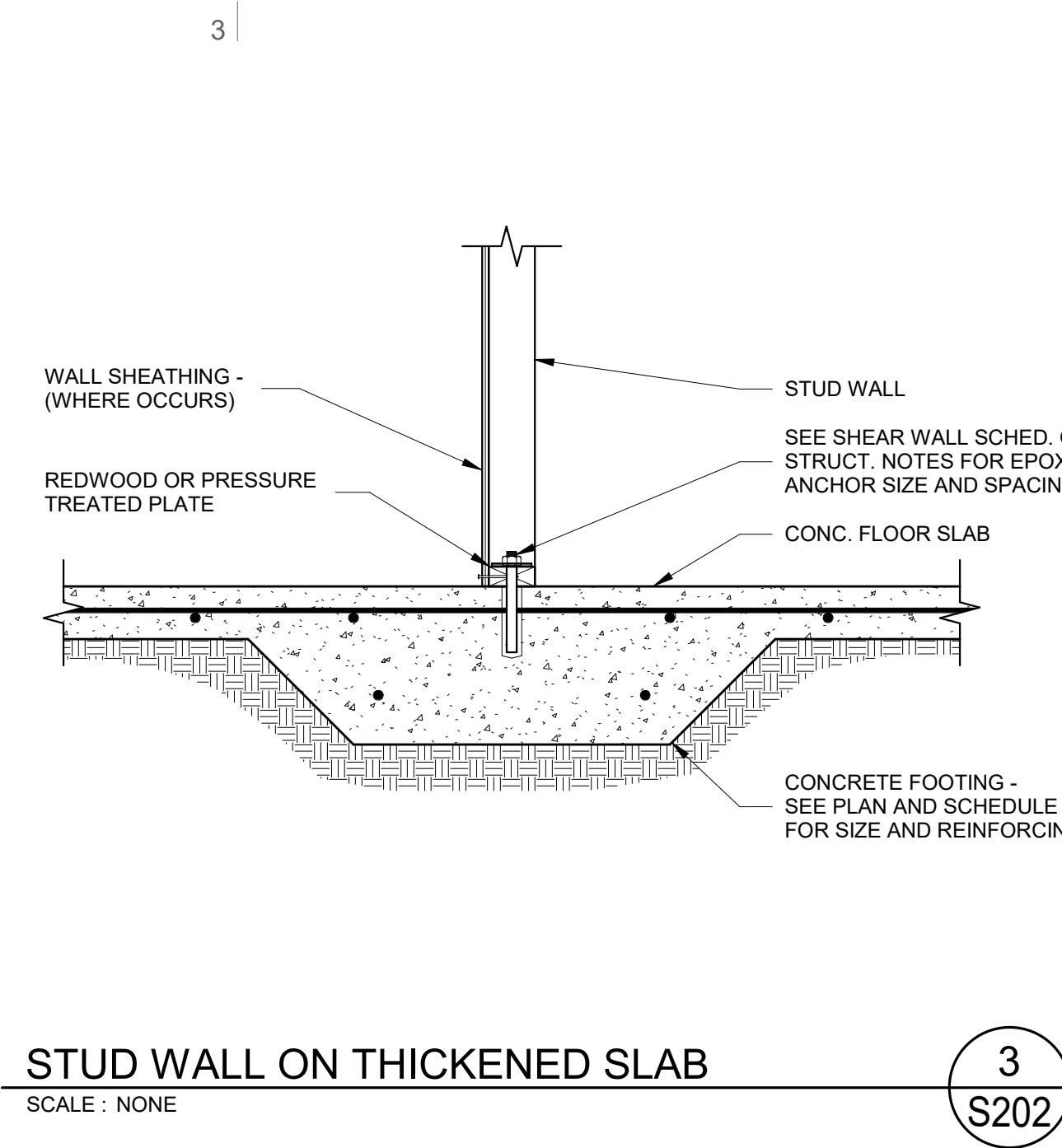
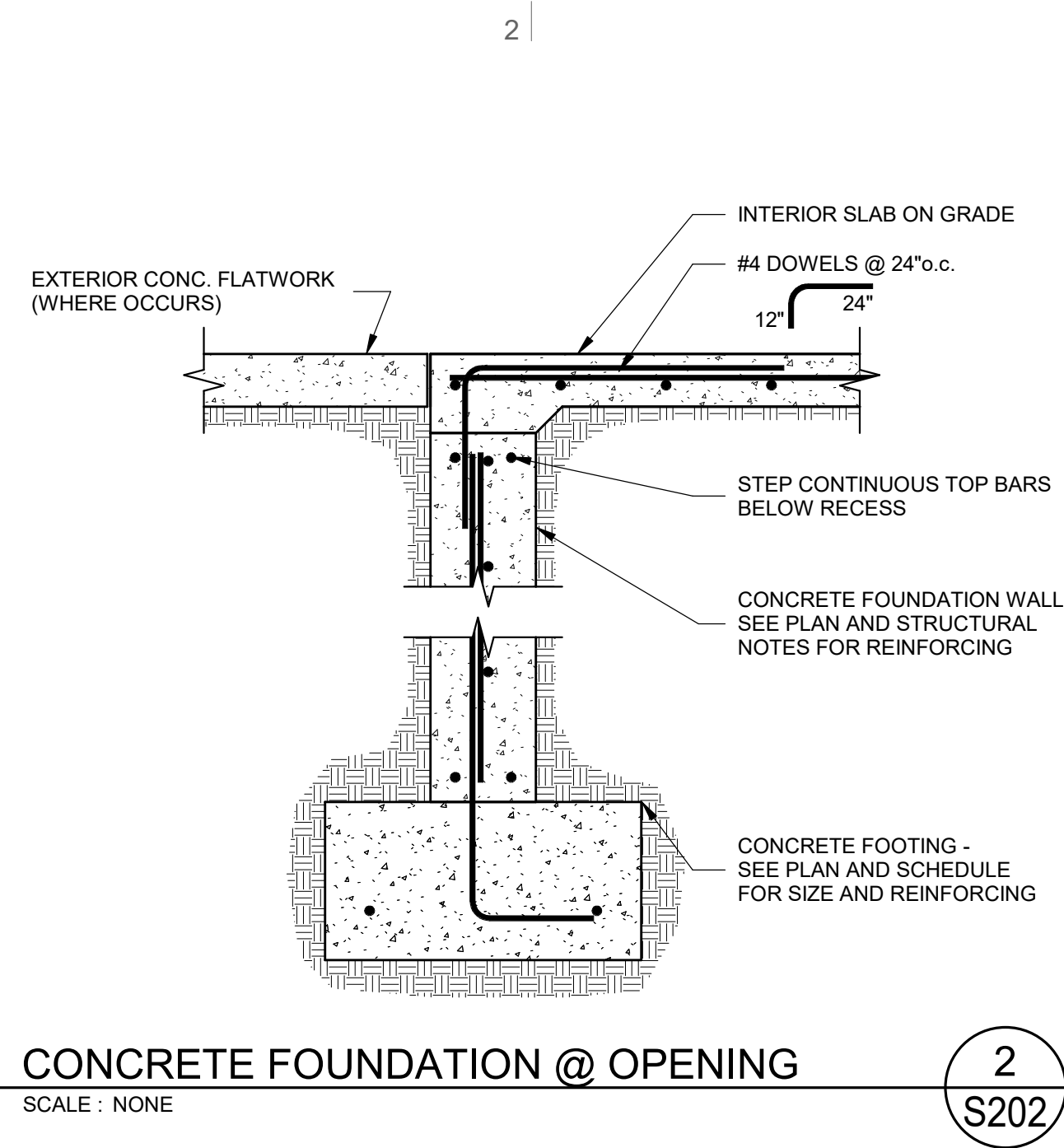
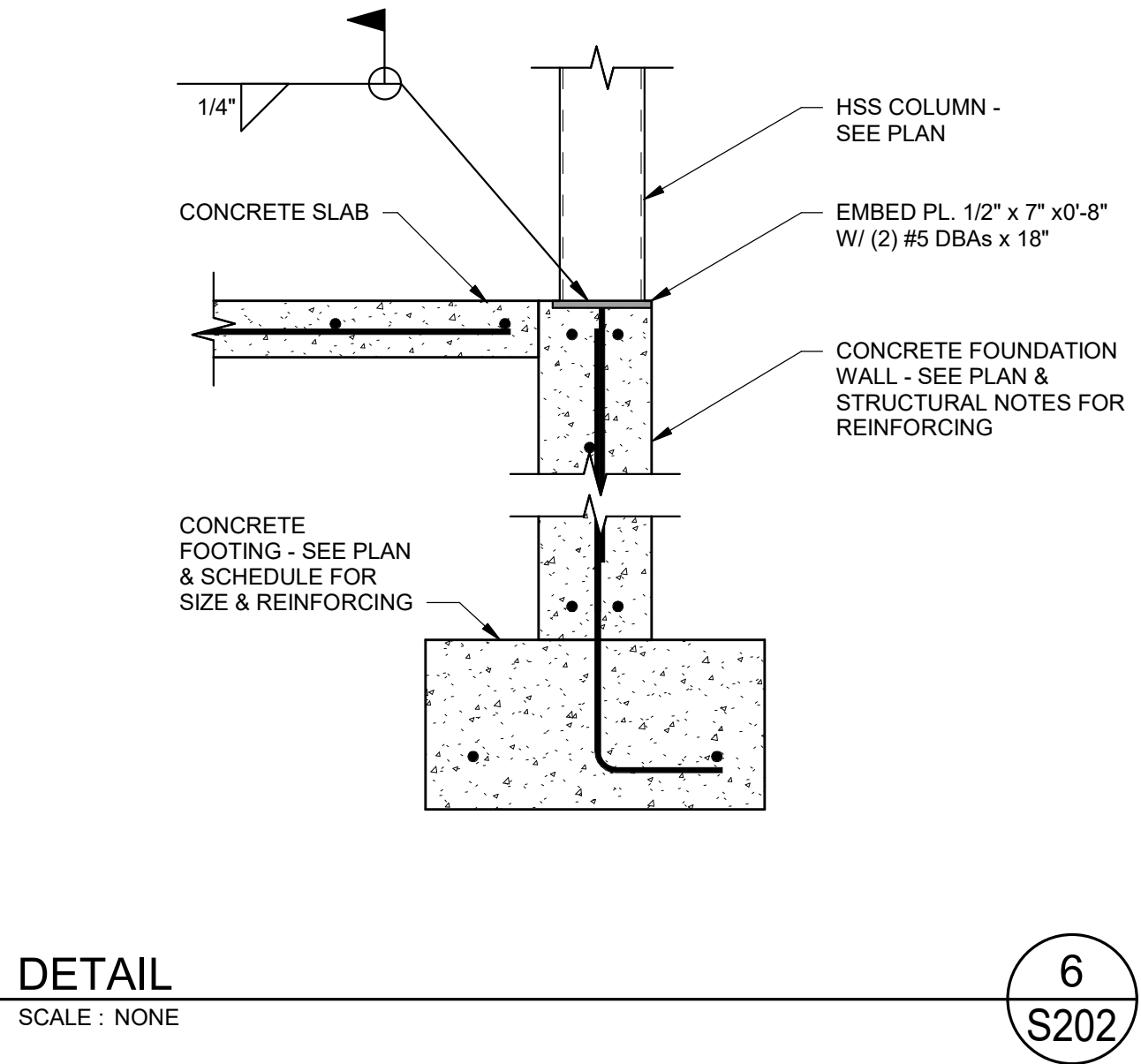
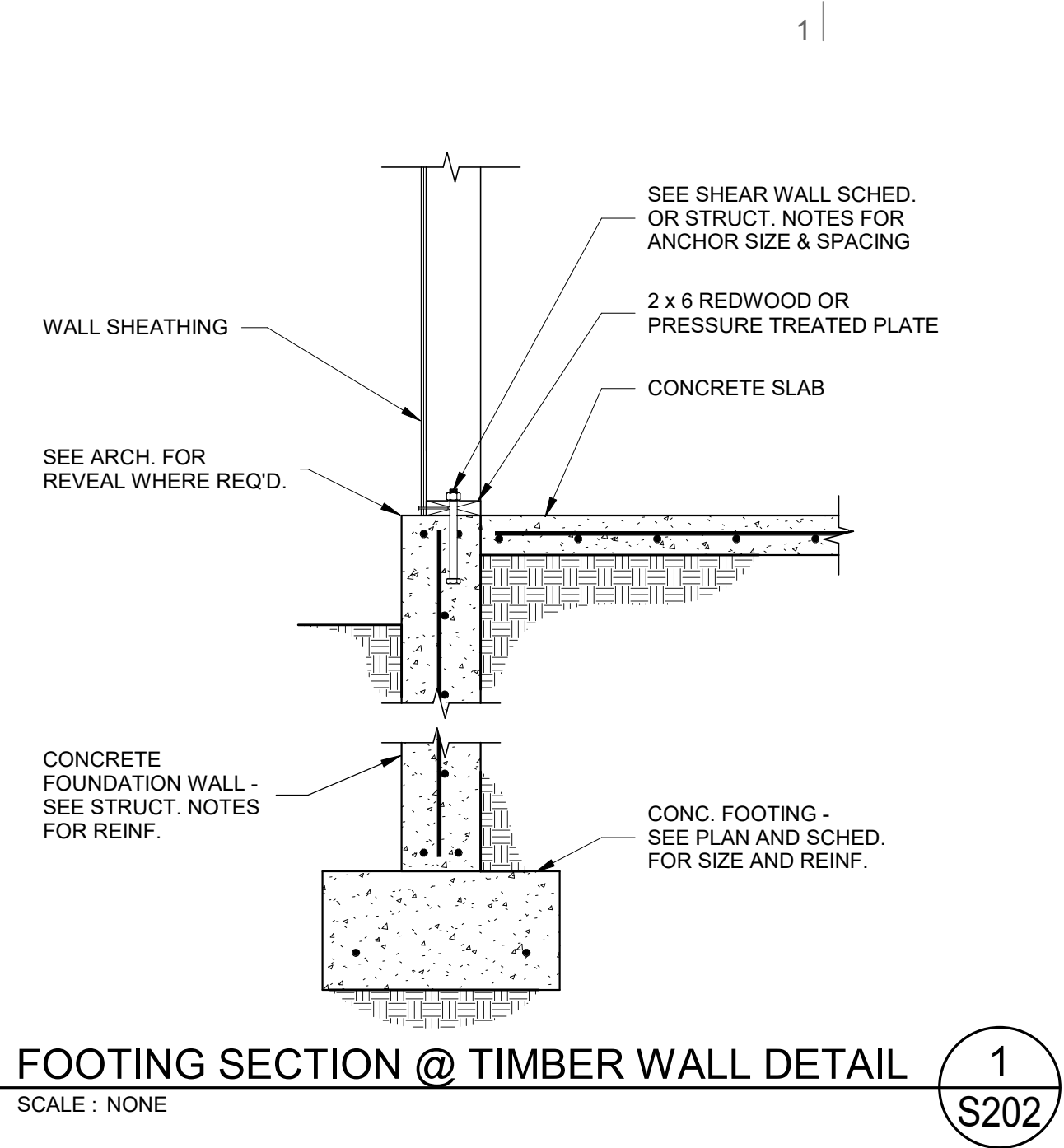
8  
S201



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S201



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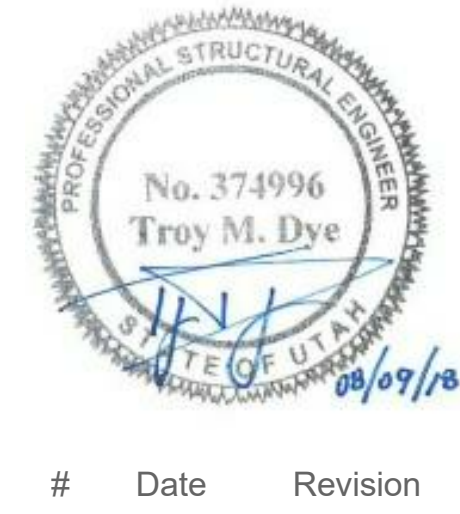
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# Date Revision

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CHECKED BY: T. Dye  
DRAWN BY: D. Bartelson  
DATE: 08.09.18

**DETAILS**

**S202**



1

E

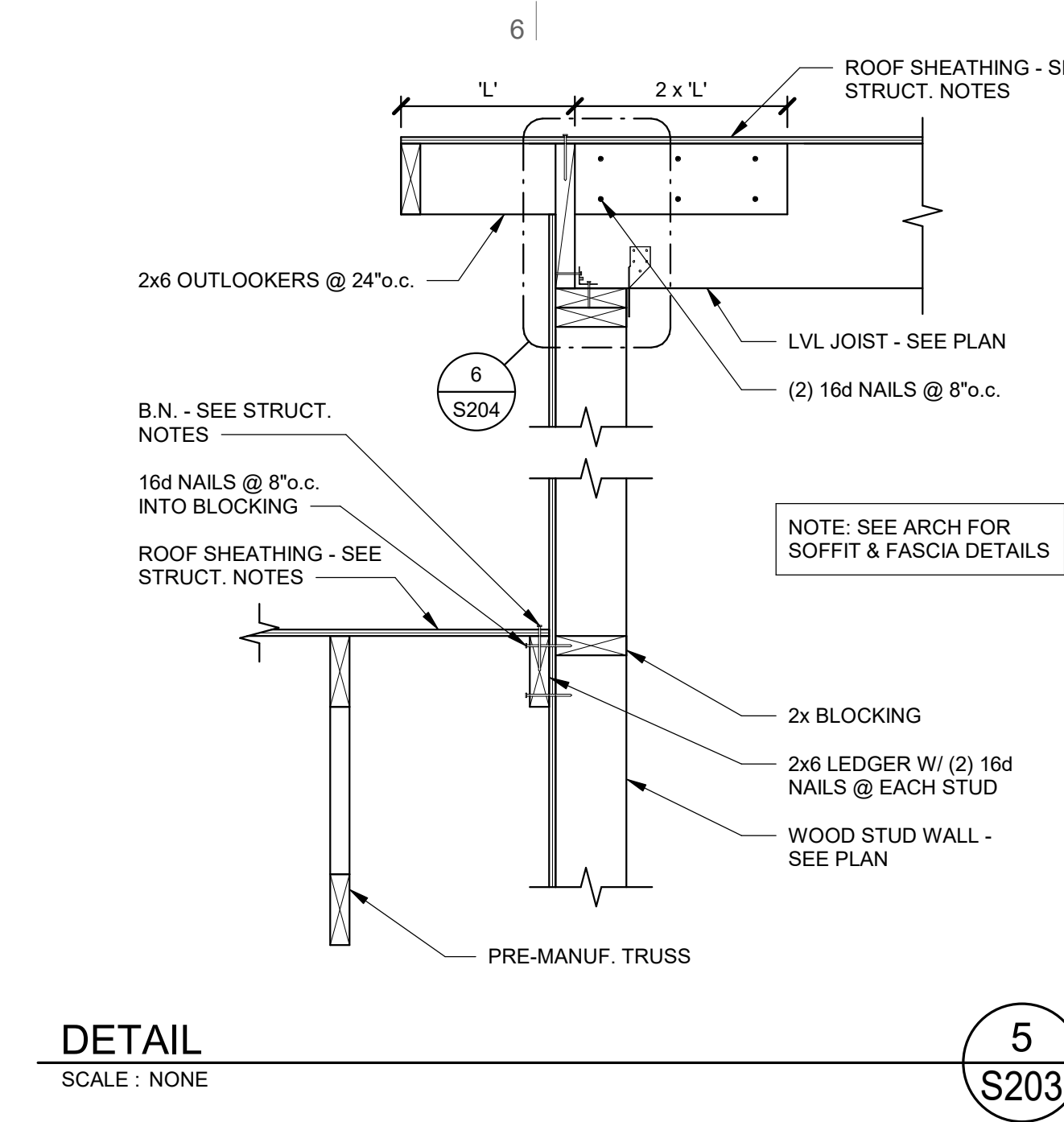
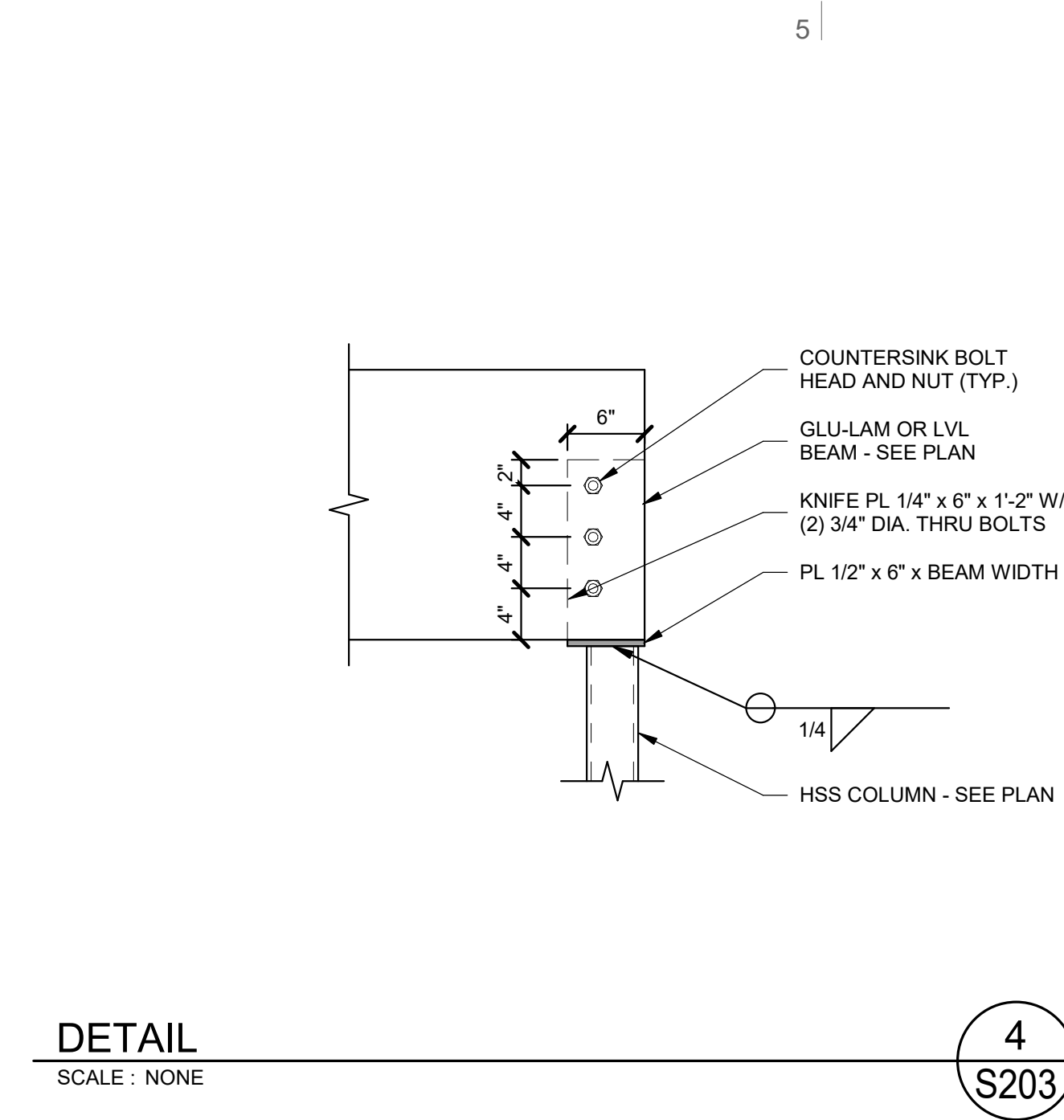
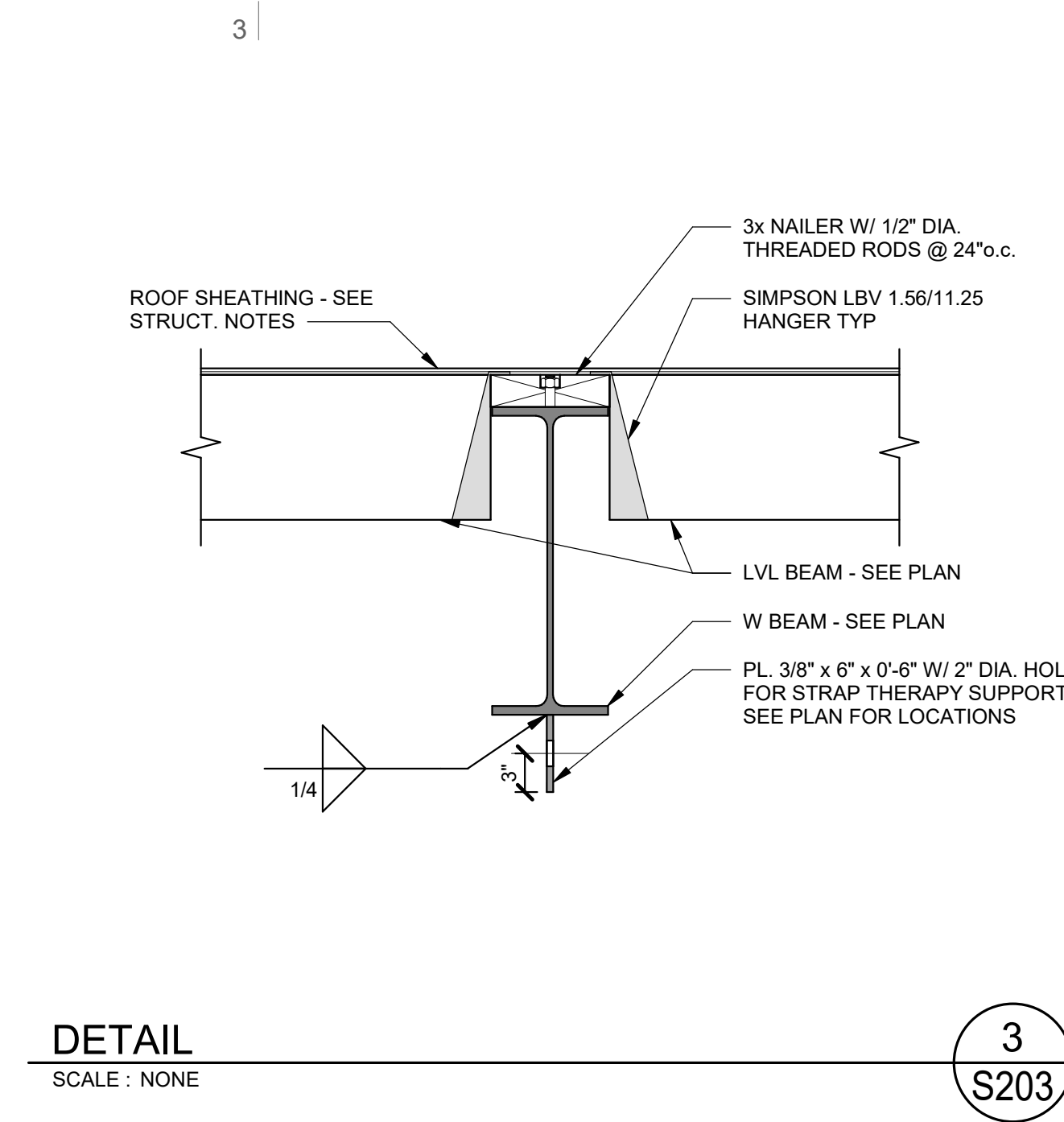
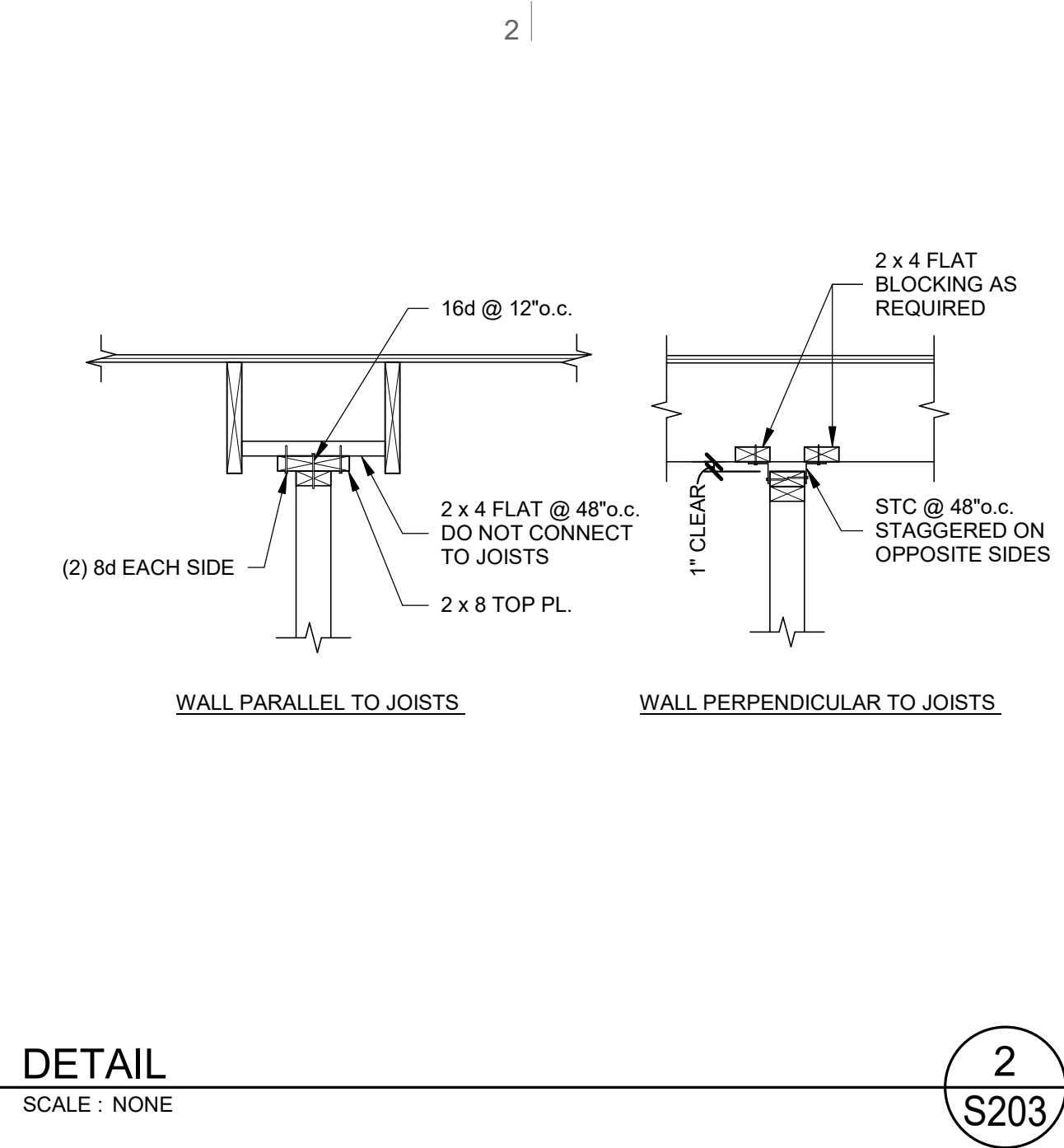
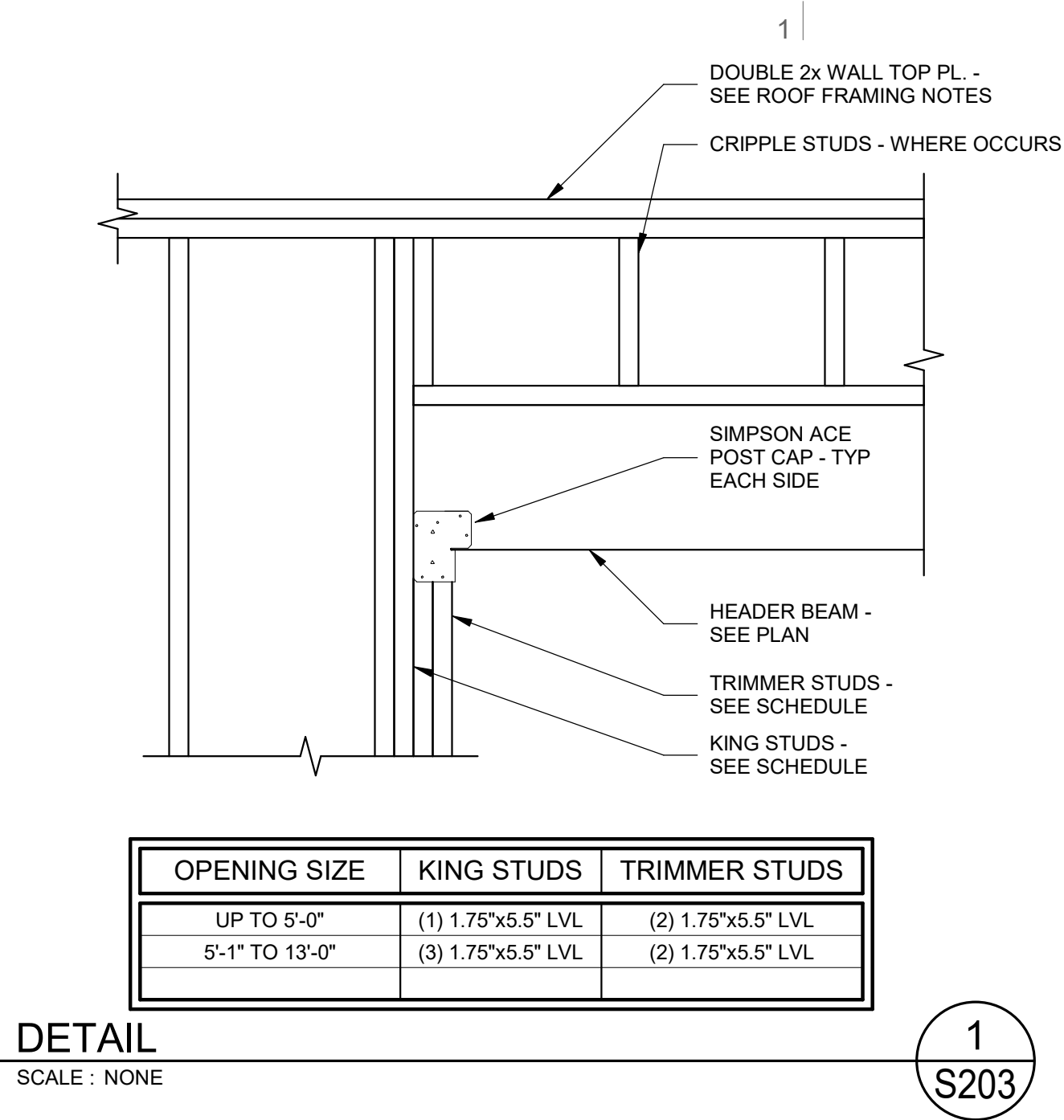
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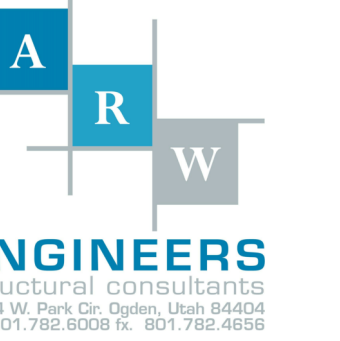
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DOCUMENTS**

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DATE: 08.09.18

**DETAILS**

**S203**

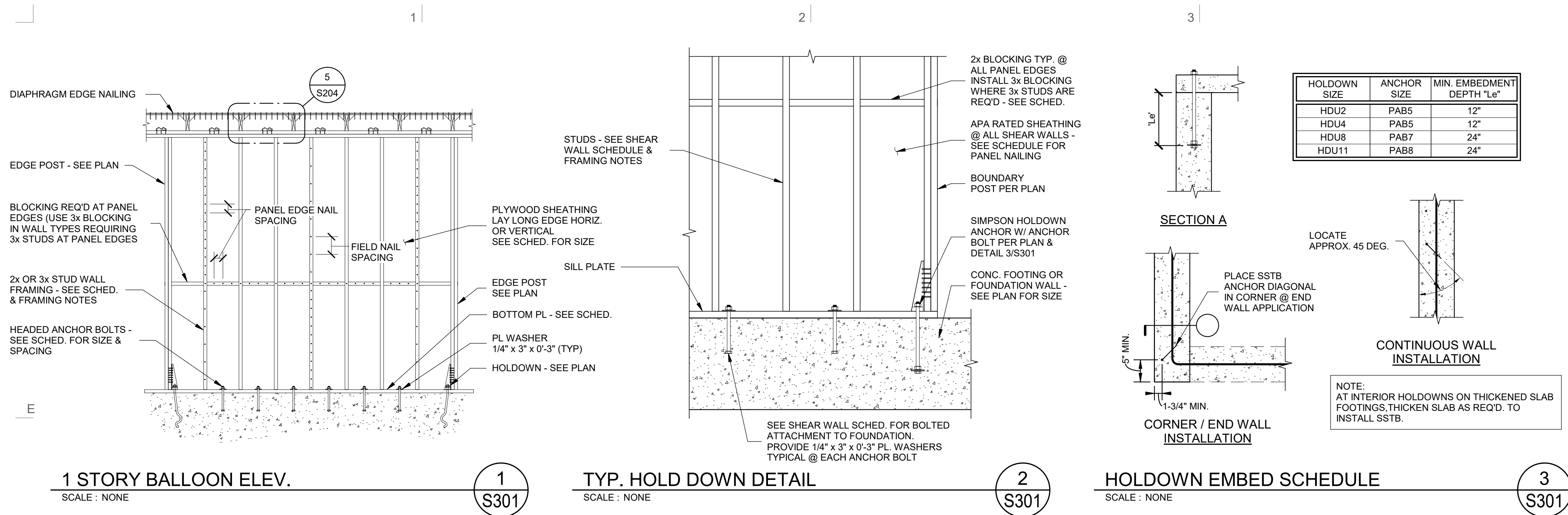




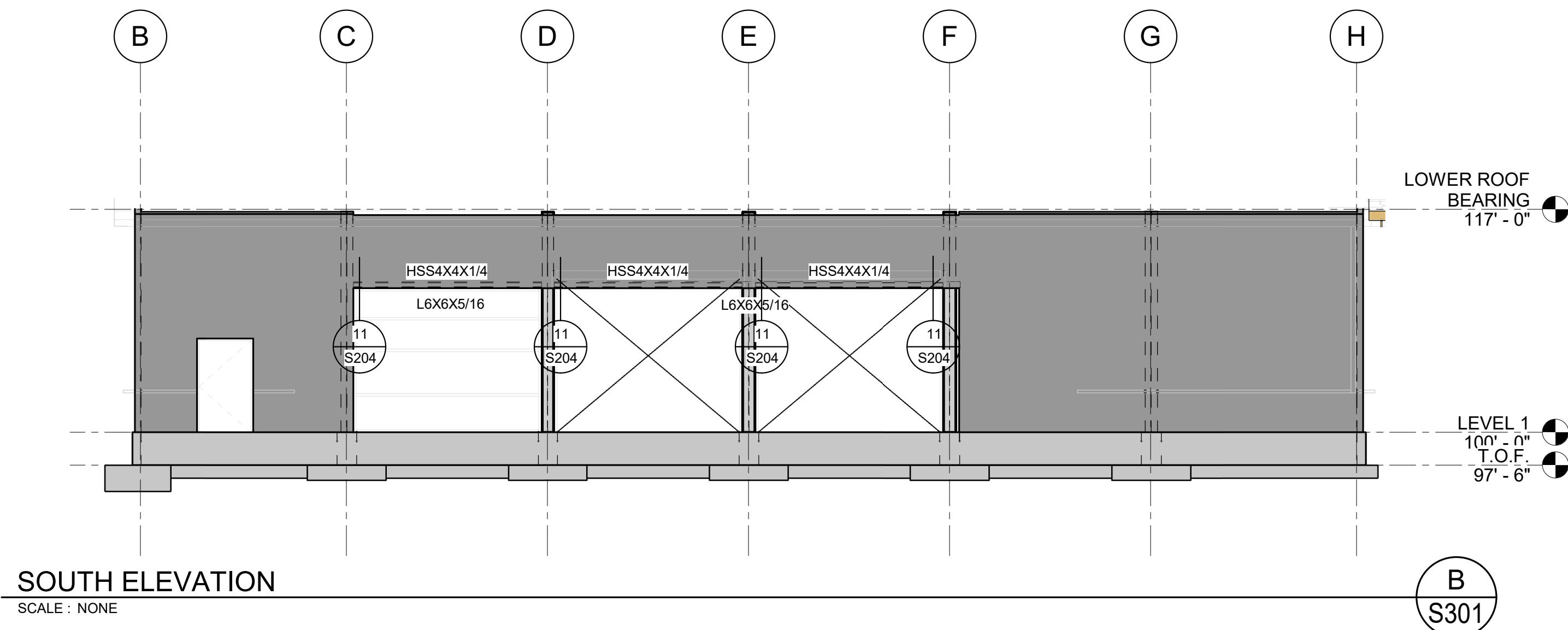
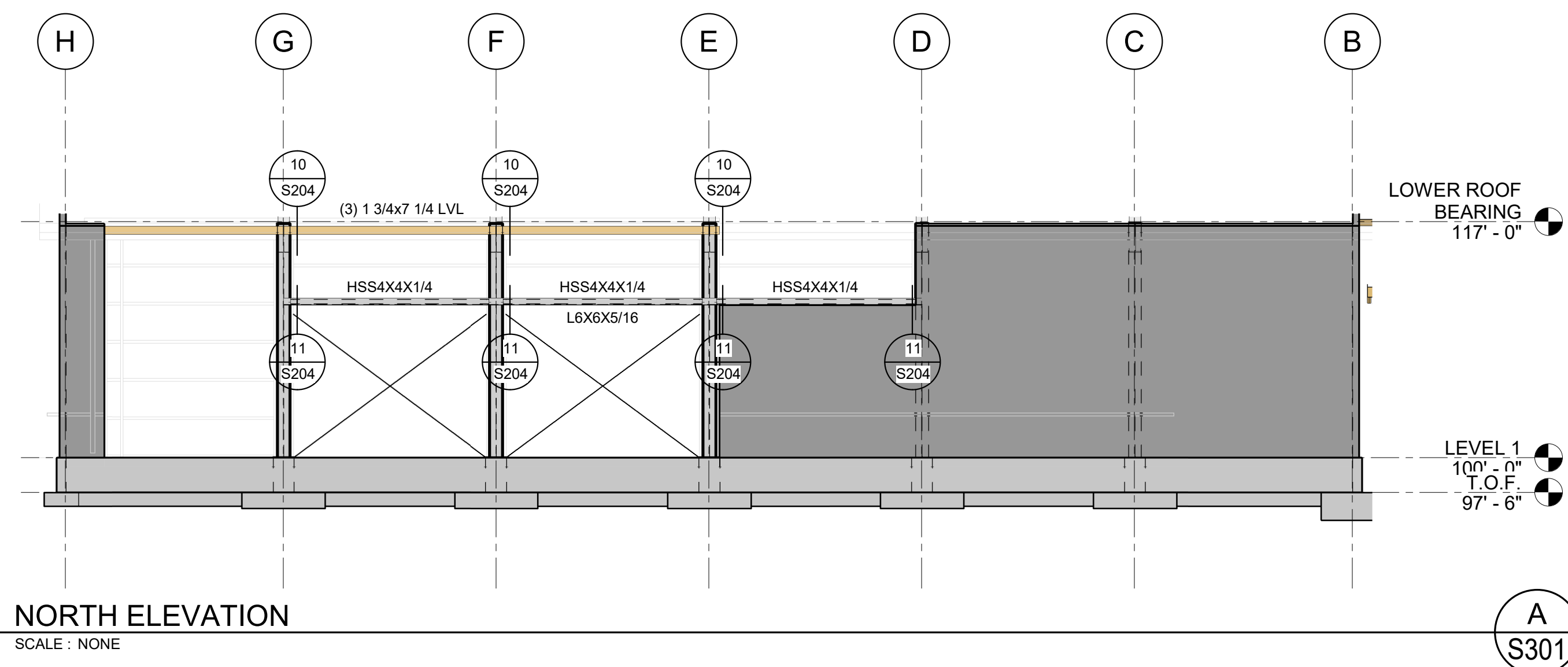
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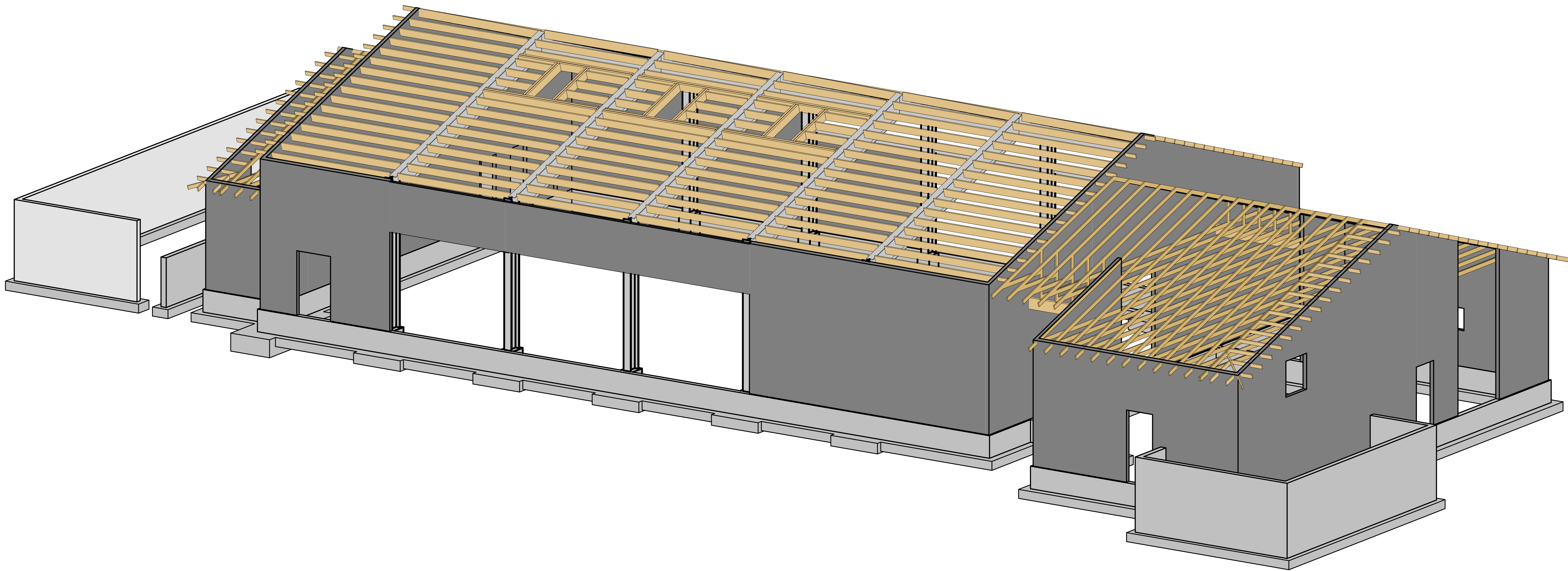


WOOD SHEAR WALL SCHEDULE											
WALL MARK	(NOTE 8) PLYWOOD SHEATHING (CDX U.N.O.)	EDGE NAILING (E.N.) (SEE NOTES 2 & 3)	NOMINAL BOTTOM PLATE SIZE	(NOTE 7) NOM STUD SIZE (MIN.)	CONNECTION NAILING			A.B. @ FOUND.		COMMENTS	
					BOTTOM PL. (A) (SEE NOTE 4) (L/J-LAG (ST)-STAGGER	NAILING TOP PL. TOGETHER (B)	BLKG. TO TOP PL. (C)	TOP PL. SPLICE	DIA.		SPA.
SW-1	15/32"	6"	2x	2x	---	10d x 3" @ 3"	A35 @ 24"	(20) 10d	5/8" DIA.	32"o.c.	
SW-2	15/32"	4"	2x	2x	---	10d x 3" @ 3"	A35 @ 16"	(20) 10d	5/8" DIA.	24"o.c.	
<div>NOTES: 1. ALL SHEATHING PANEL EDGES TO BE BLOCKED. 2. ALL NAILS TO BE COMMON OR GALV. BOX. 3. FIELD NAILING TO BE SAME NAILS @ 12"o.c. 4. (A) CONNECTION IS FOR 2ND FLOOR AND ABOVE. 5. AT SHEAR WALLS W/ SHEATHING ON BOTH SIDES, BOTH VERTICAL AND HORIZONTAL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL BE STAGGERED. 6. STAGGER E.N. AT DOUBLE TOP PLATES. 7. 3x NOMINAL FRAMING MEMBERS TO OCCUR AT ABUTTING PANEL EDGES. 2x NOMINAL FRAMING MEMBERS MAY BE USED AT INTERIOR OF PANEL, UNLESS NOTED OTHERWISE IN FLOOR FRAMING NOTES. (2) 2x NAILED TOGETHER W/ (2) 16d NAILS @ 16"o.c. OR 4x NOMINAL FRAMING MEMBERS OF THE SAME DEPTH AND LUMBER GRADE MAY BE USED IN LIEU OF 3x MEMBERS AT CONTRACTOR OPTION. 8. SHEATHING SHALL BE STAMPED W/ APA STAMP, O.S.B. OF EQUIVALENT THICKNESS, GRADE, AND RATING MAY BE USED IN LIEU OF PLYWOOD. 9. ALL A.B. TO HAVE MIN. 8" EMBEDMENT INTO CONCRETE. 10. SEE THIS SHEET FOR TYPICAL SHEAR TRANSFER DETAILS. 11. TOP PLATE SPLICE NAILING SHALL APPLY TO EACH SIDE OF THE SPLICE. THE LENGTH OF THE OVERLAP SHALL BE SUFFICIENT TO PREVENT SPLITTING (48" MIN.)</div>											



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3D Reference  
SCALE :

A  
S401

NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.

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DRAWN BY: D. Bartelson  
DATE: 08.09.18

**SCHEMATIC REFERENCE**

**S401**

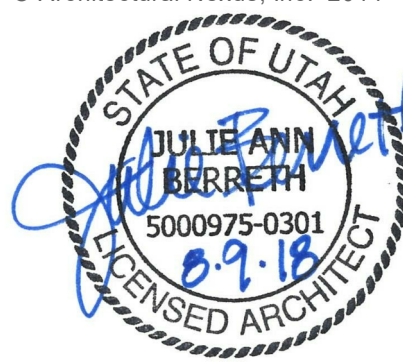




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# Date Revision

**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 18065  
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DRAWN BY: TB  
DATE: 08.09.18

**FLOOR PLAN**

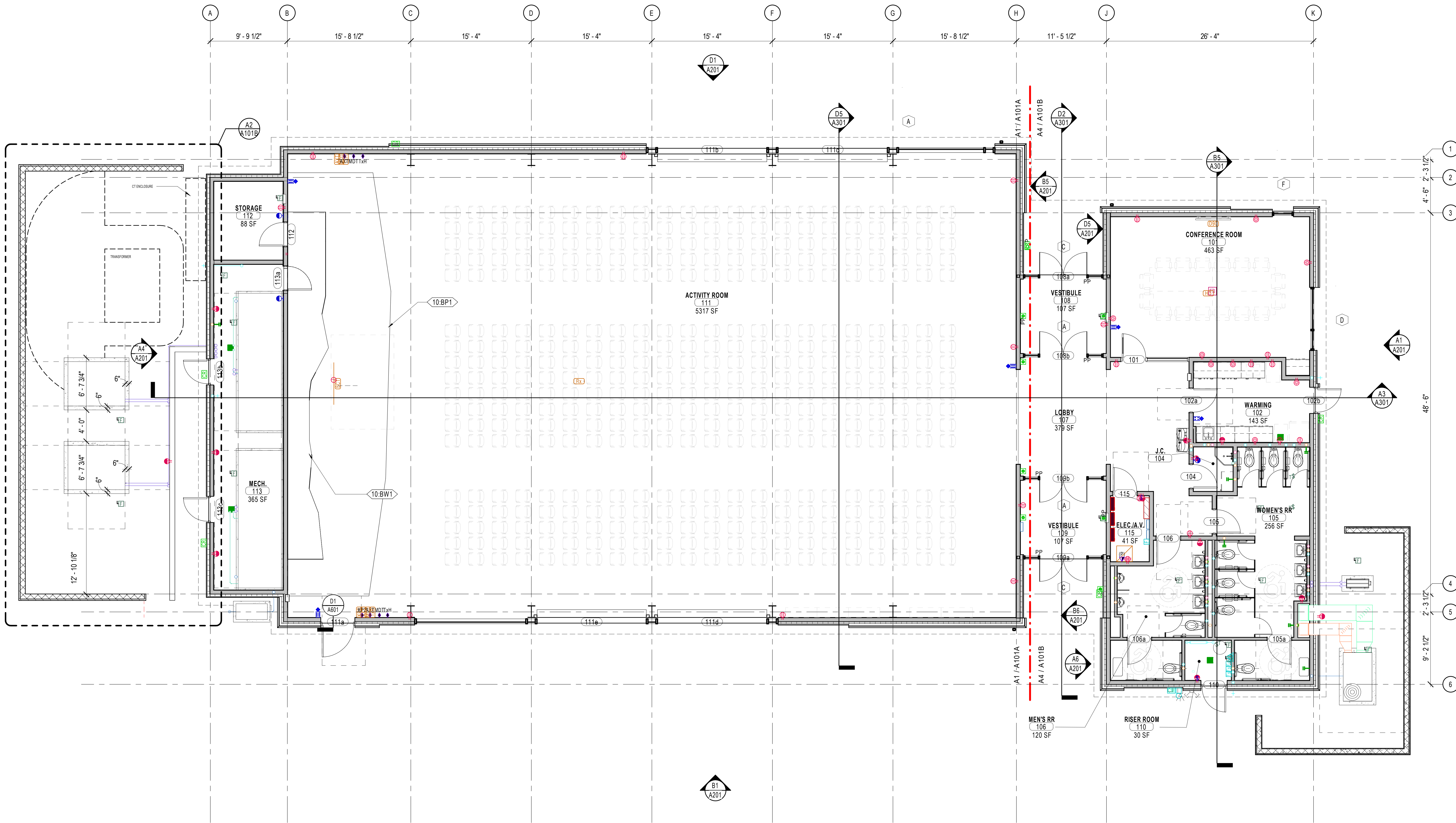
**A101**

**GENERAL NOTE - FLOOR PLAN**

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.  
B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.  
C. DO NOT SCALE DRAWINGS.  
D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.  
E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.  
F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL B3 / A701

**KEYNOTE LEGEND**

- 10-BP1 BOULDER WALL PAD. SEE SHEET A702  
10-BW1 BOULDERING WALL. SEE SHEET A702



**A1 LEVEL 01 - OVERALL FLOOR PLAN**  
3/16" = 1'-0"

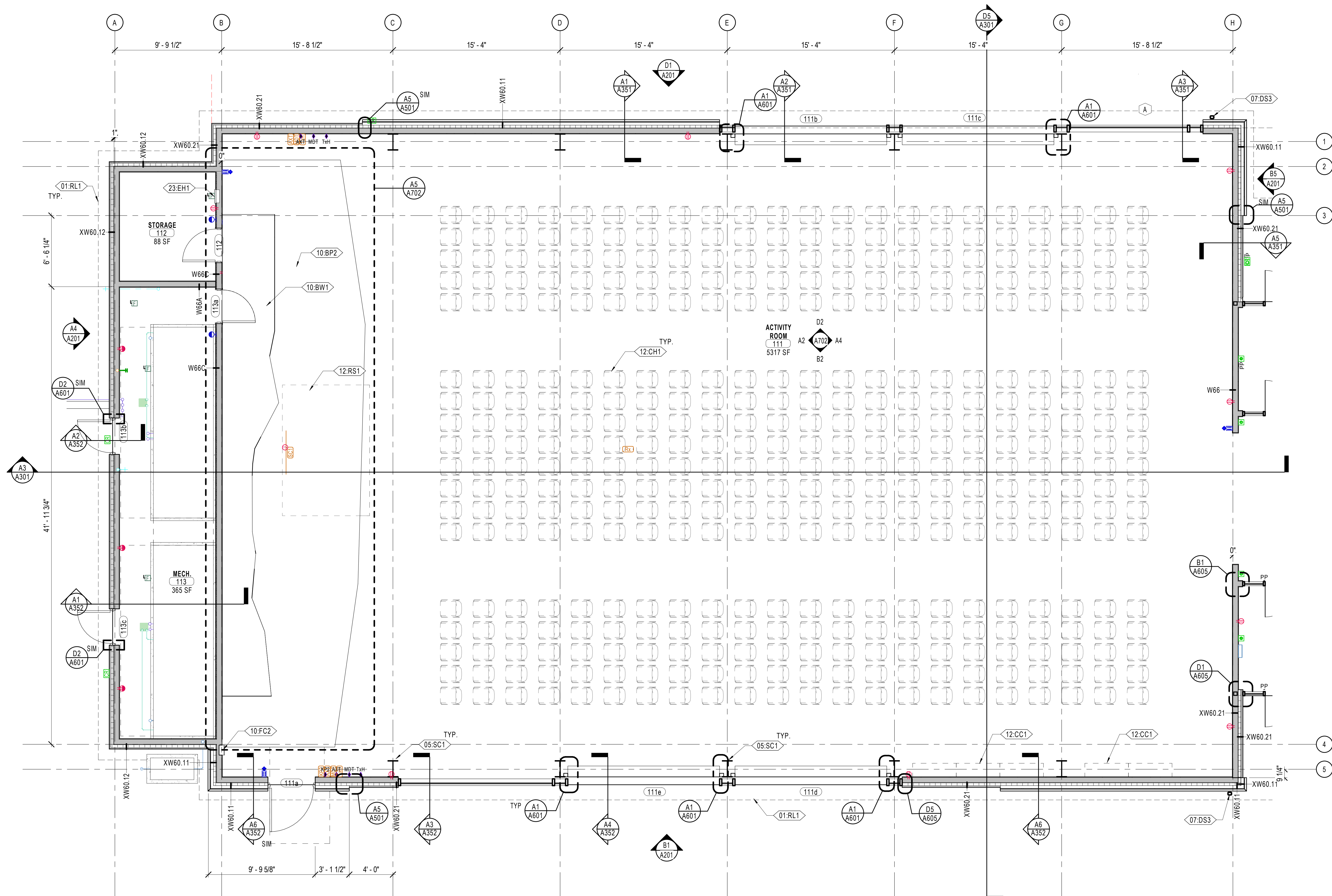
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A

**A1** LEVEL 01 - ENLARGED FLOOR PLAN - AREA A  
A101A 1/4" = 1'-0"



## GENERAL NOTES - ENLARGED FLOOR PLAN

- PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT. DO NOT SCALE DRAWINGS.
- SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL B3/A701.

## KEYNOTE LEGEND

- |        |  |
|--------|--|
| 01:RL1 | ROOF LINE ABOVE  |
| 05:SC1 | STEEL COLUMN   |
| 07:DS3 | DOWNSPOUT  |
| 10:BP2 | BOULDER PAD  |
| 10:BW1 | BOULDERING WALL. SEE SHEET A702                          |
| 10:FC2 | SEMI-RECESSED FIRE EXTINGUISHER CABINET - SEE SHEET A701 |
| 12:CC1 | CASEWORK CUBBIES. O.F.O.I. FINISH TO BE PL-04            |
| 12:CH1 | CHAIR. O.F.O.I.  |
| 12:RS1 | REMOVABLE STAGE. O.F.O.I.                                |
| 23:EH1 | ELECTRICAL HEATER, WALL-MOUNTED. SEE MECHANICAL.         |



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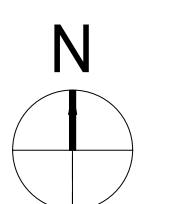
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**FLOOR PLAN - AREA A**

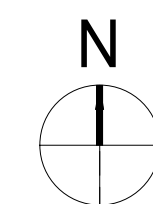


**A101A**



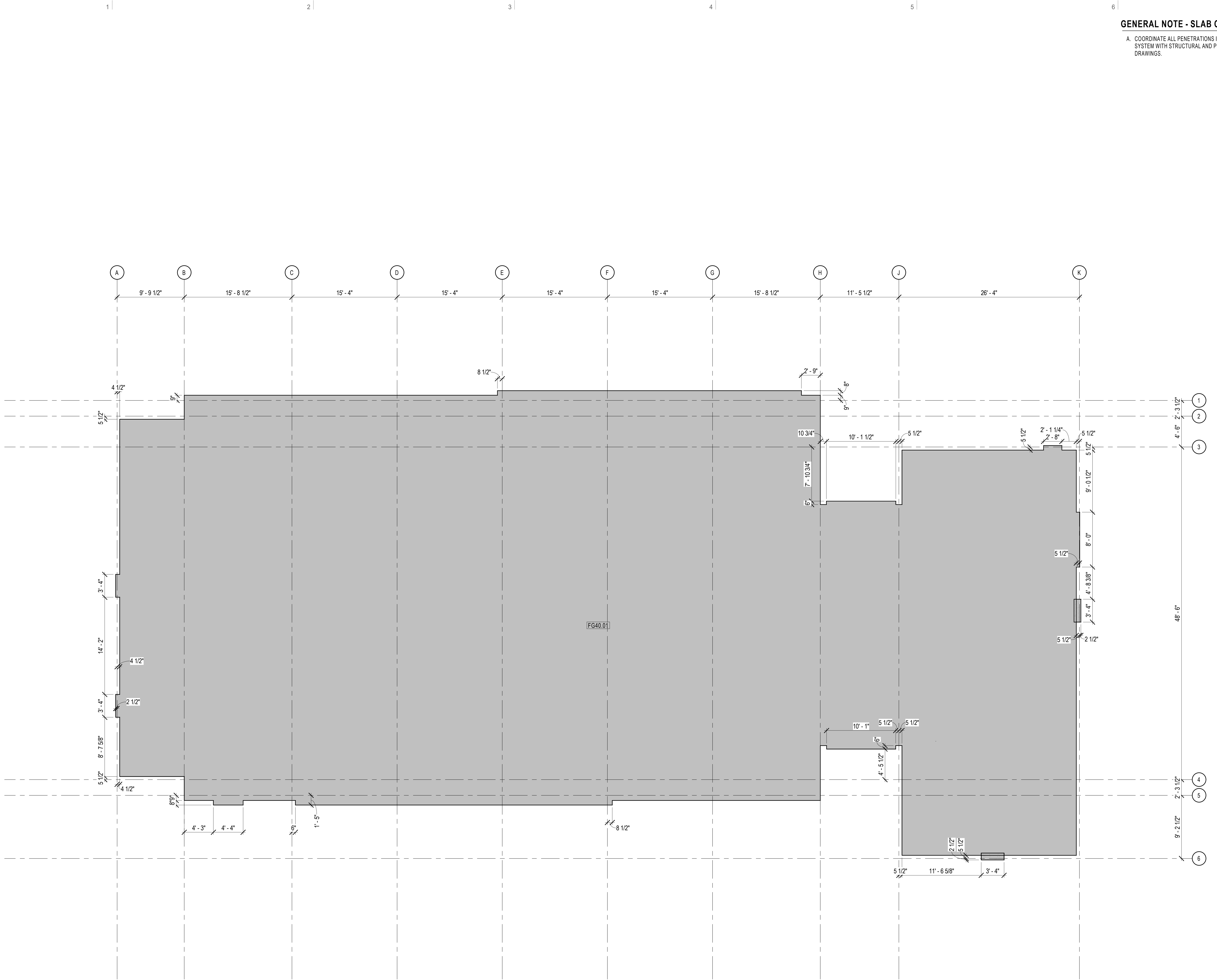
#	Date	Revision
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# A101B





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**A1 LEVEL 01 - SLAB CONTROL PLAN**  
A111 3/16" = 1'-0"

**GENERAL NOTE - SLAB CONTROL**

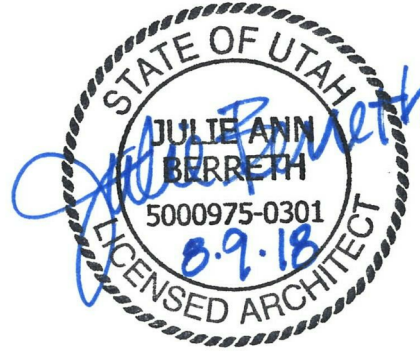
A. COORDINATE ALL PENETRATIONS IN SLAB SYSTEM WITH STRUCTURAL AND PLUMBING DRAWINGS.



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**SLAB CONTROL PLAN**

**A111**



8/10/2018 4:35:11 PM

A3 ROOF PLAN  
A121 3/16" = 1'-0"

GENERAL NOTE - ROOF PLAN

- A. COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS.  
B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN FIELD.  
C. PROVIDE ADDITIONAL FLASHING, COUNTER FLASHING, PRESSURE TREATED WOOD BLOCKING AND ALL OTHER NECESSARY MATERIALS FOR COMPLETE ROOF RECONSTRUCTION.  
D. PROVIDE CRICKETS ABOVE ALL OBSTRUCTIONS TO WATER FLOW WHICH ARE WIDER THAN 2 FEET. CRICKET BACK SLOPES SHALL BE TWICE THAT OF ROOF SLOPES.  
E. ROOFING DETAILS ON THIS SHEET ARE INTENDED TO SHOW ROOF MEMBRANE AND FLASHING DETAILING AT VARIOUS TYPES OF ROOF PENETRATIONS. ACTUAL CONDITIONS BELOW THE MEMBRANE ARE SHOWN DIAGRAMMATICALLY. SEE PROJECT SPECIFICATIONS, WALL SECTIONS AND DETAILS FOR ROOF DECK SUBSTRATE, INSULATION, VAPOR RETARDER, ROOF SUBSTRATE AND COVER BOARD CONDITIONS.



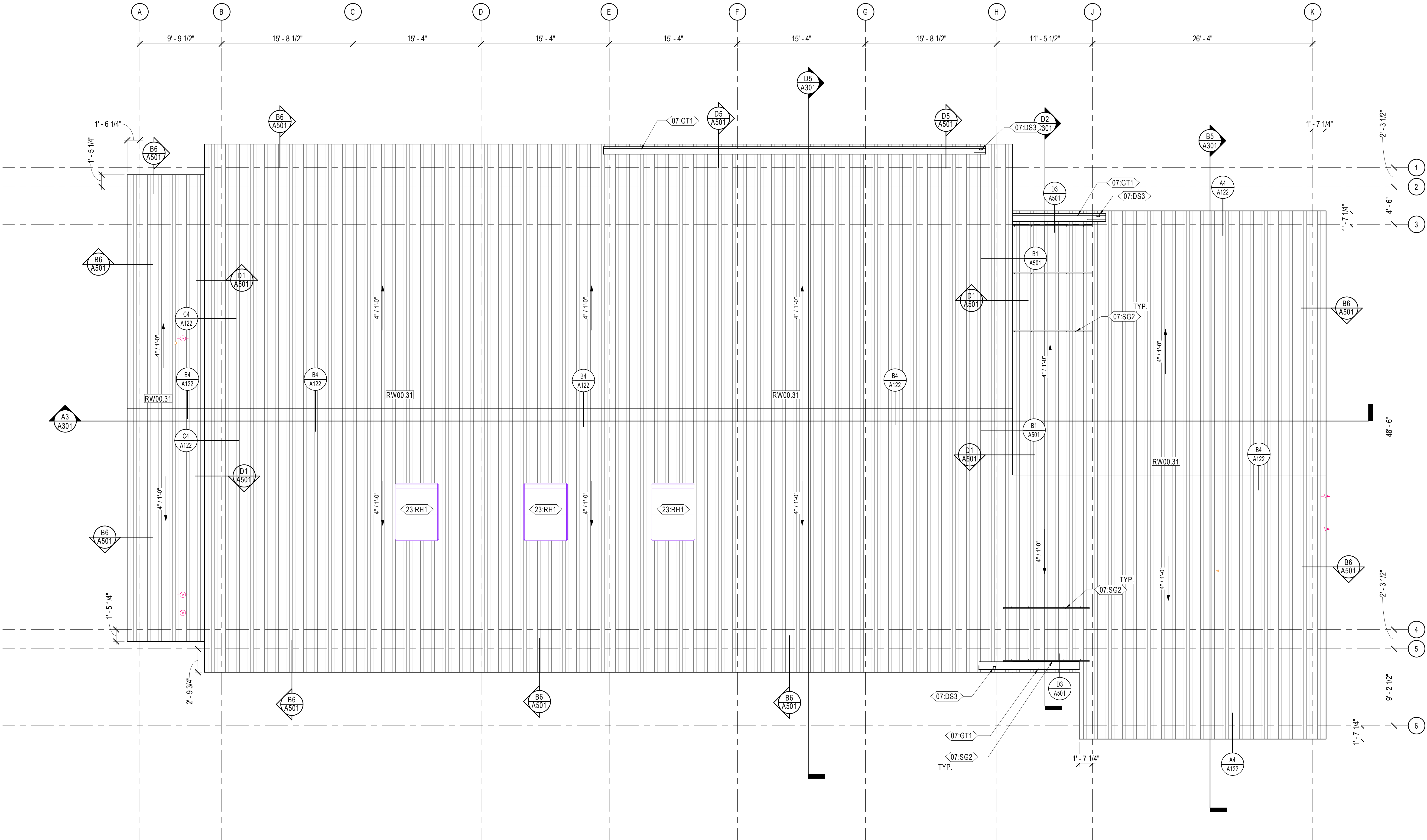
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KEYNOTE LEGEND

- 07.DS3 DOWNSPOUT  
07.GT1 PRE-FINISHED CUSTOM ALUMINUM GUTTER AND DOWNSPOUT  
07.SG2 SNOWGUARD. ANCHOR TO STRUCTURAL ROOF FRAMING  
23.RH1 HATCH. SEE MECHANICAL

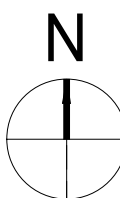


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ROOF PLAN



A121



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GENERAL NOTE - ROOF PLAN

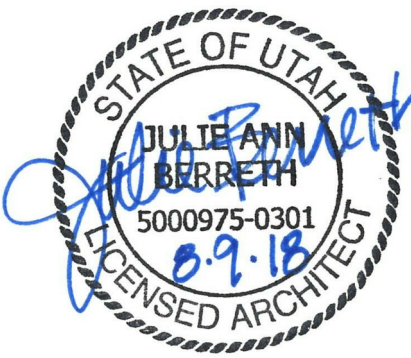
- A. COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN FIELD.
- C. PROVIDE ADDITIONAL FLASHING, COUNTER FLASHING, PRESSURE TREATED WOOD BLOCKING AND ALL OTHER NECESSARY MATERIALS FOR COMPLETE ROOF RECONSTRUCTION.
- D. PROVIDE CRICKETS ABOVE ALL OBSTRUCTIONS TO WATER FLOW WHICH ARE WIDER THAN 2 FEET. CRICKET BACK SLOPES SHALL BE TWICE THAT OF ROOF SLOPES.
- E. ROOFING DETAILS ON THIS SHEET ARE INTENDED TO SHOW ROOF MEMBRANE AND FLASHING DETAILING AT VARIOUS TYPES OF ROOF PENETRATIONS. ACTUAL CONDITIONS BELOW THE MEMBRANE ARE SHOWN DIAGRAMMATICALLY. SEE PROJECT SPECIFICATIONS, WALL SECTIONS AND DETAILS FOR ROOF DECK SUBSTRATE, INSULATION, VAPOR RETARDER, ROOF SUBSTRATE AND COVER BOARD CONDITIONS.



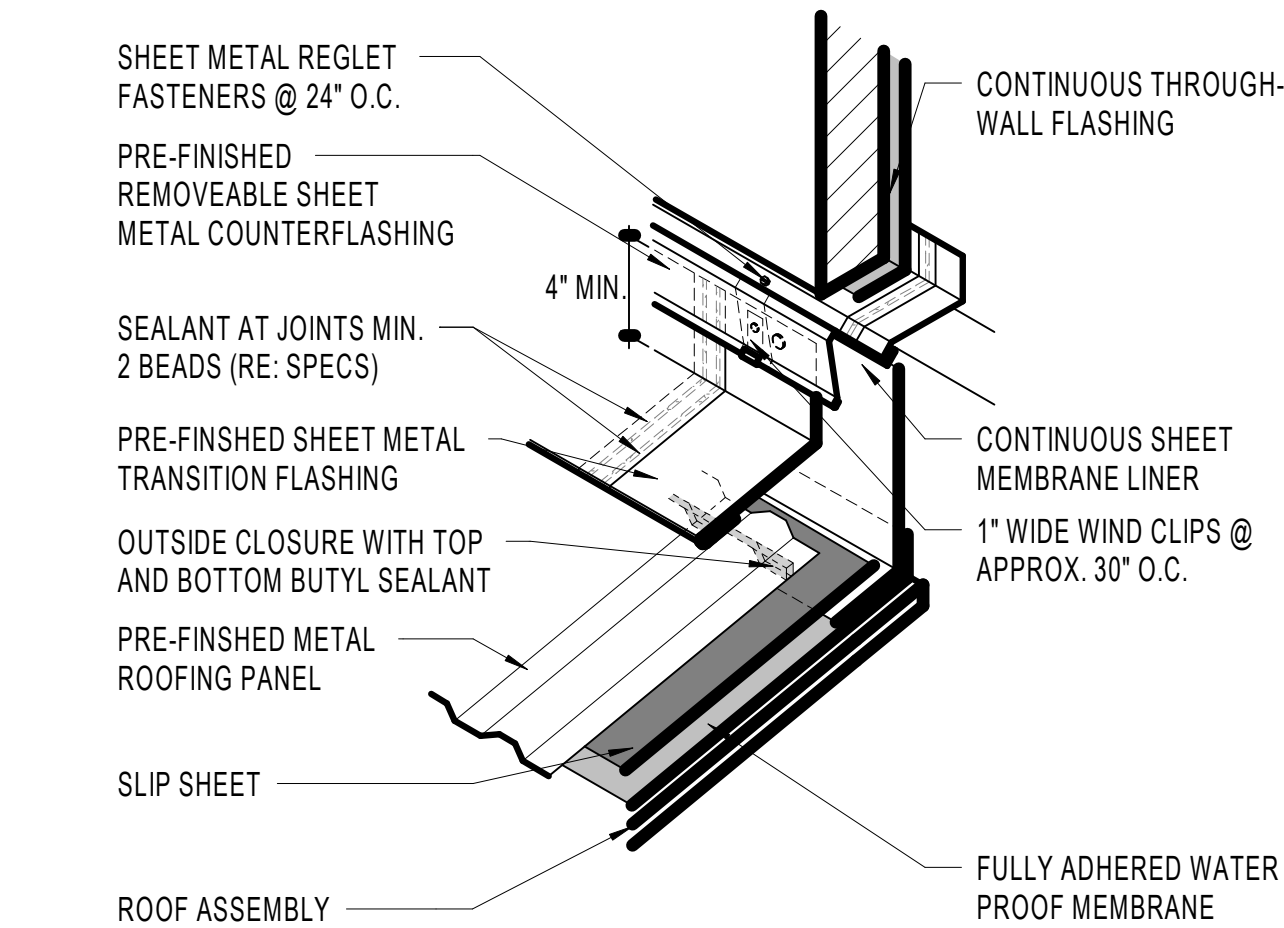
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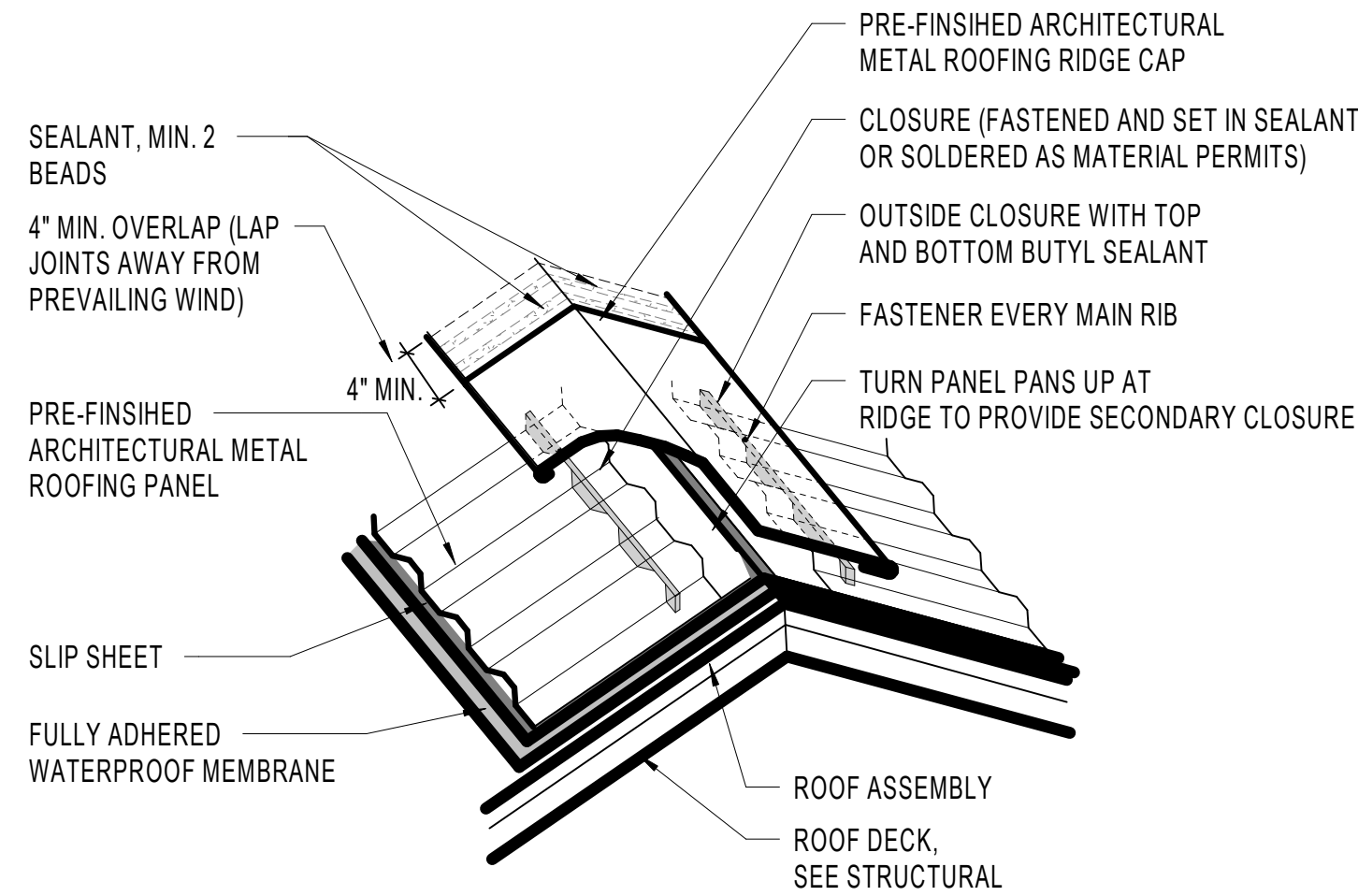
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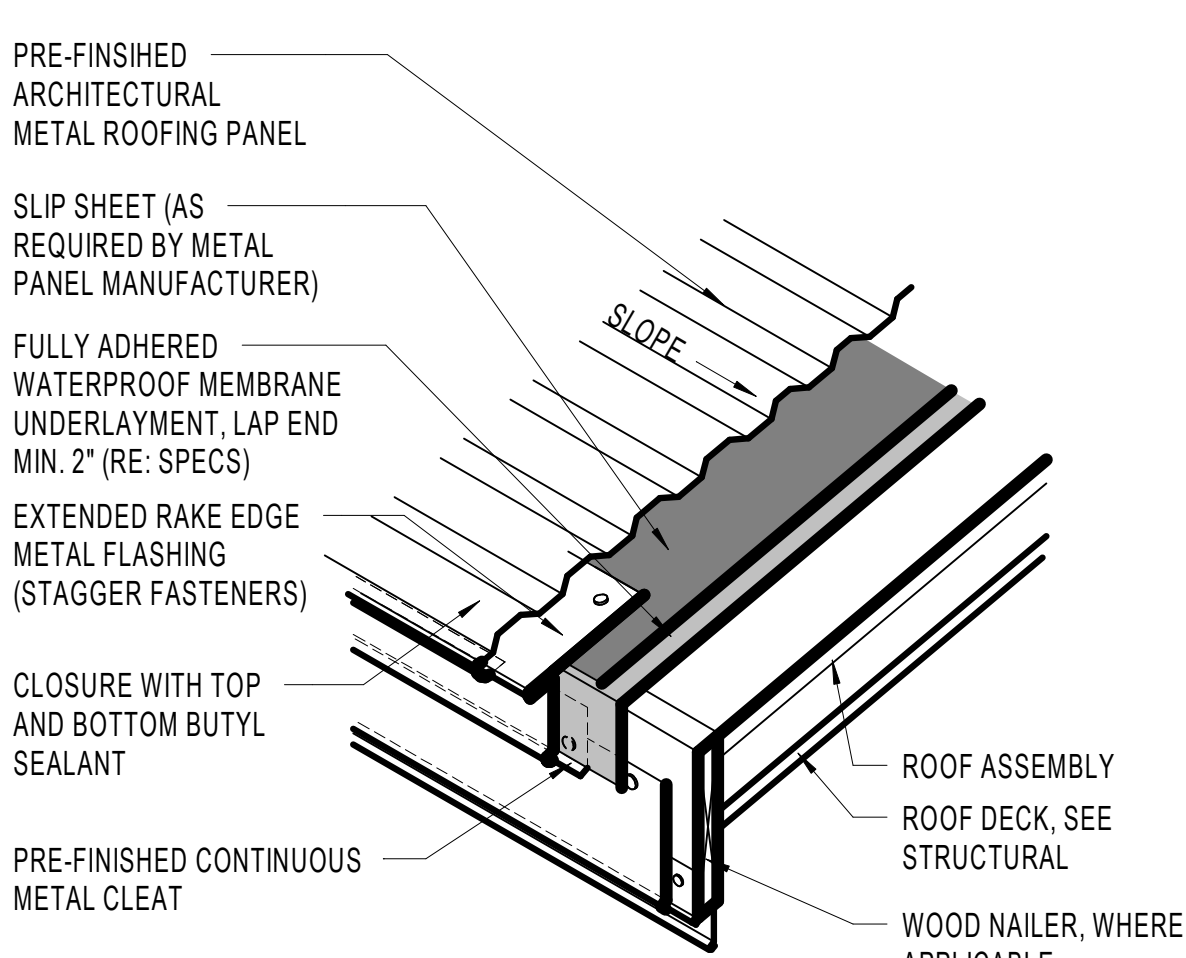
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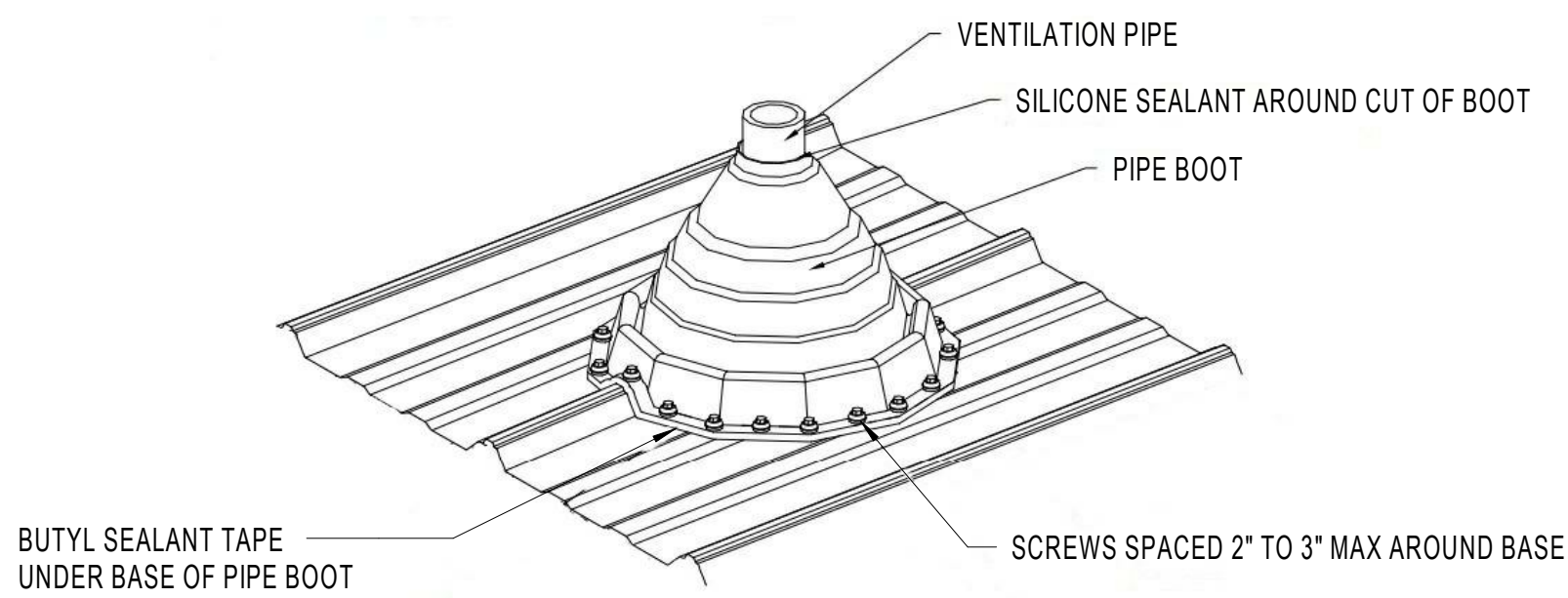
**C4** ROOFING (METAL) - WALL FLASHING  
A122 1 1/2" = 1'-0"



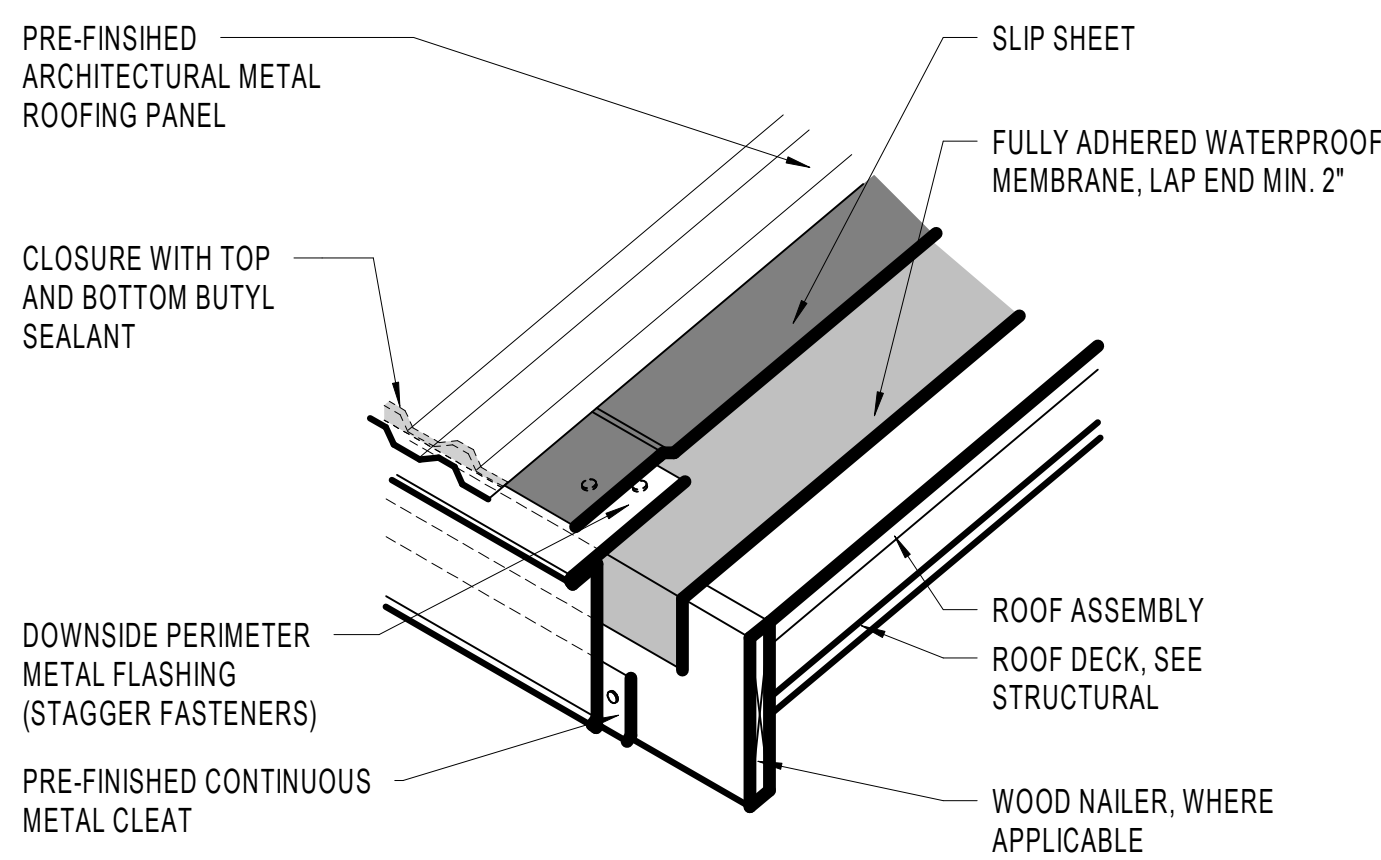
**B4** ROOFING (METAL) - RIDGE  
A122 1 1/2" = 1'-0"



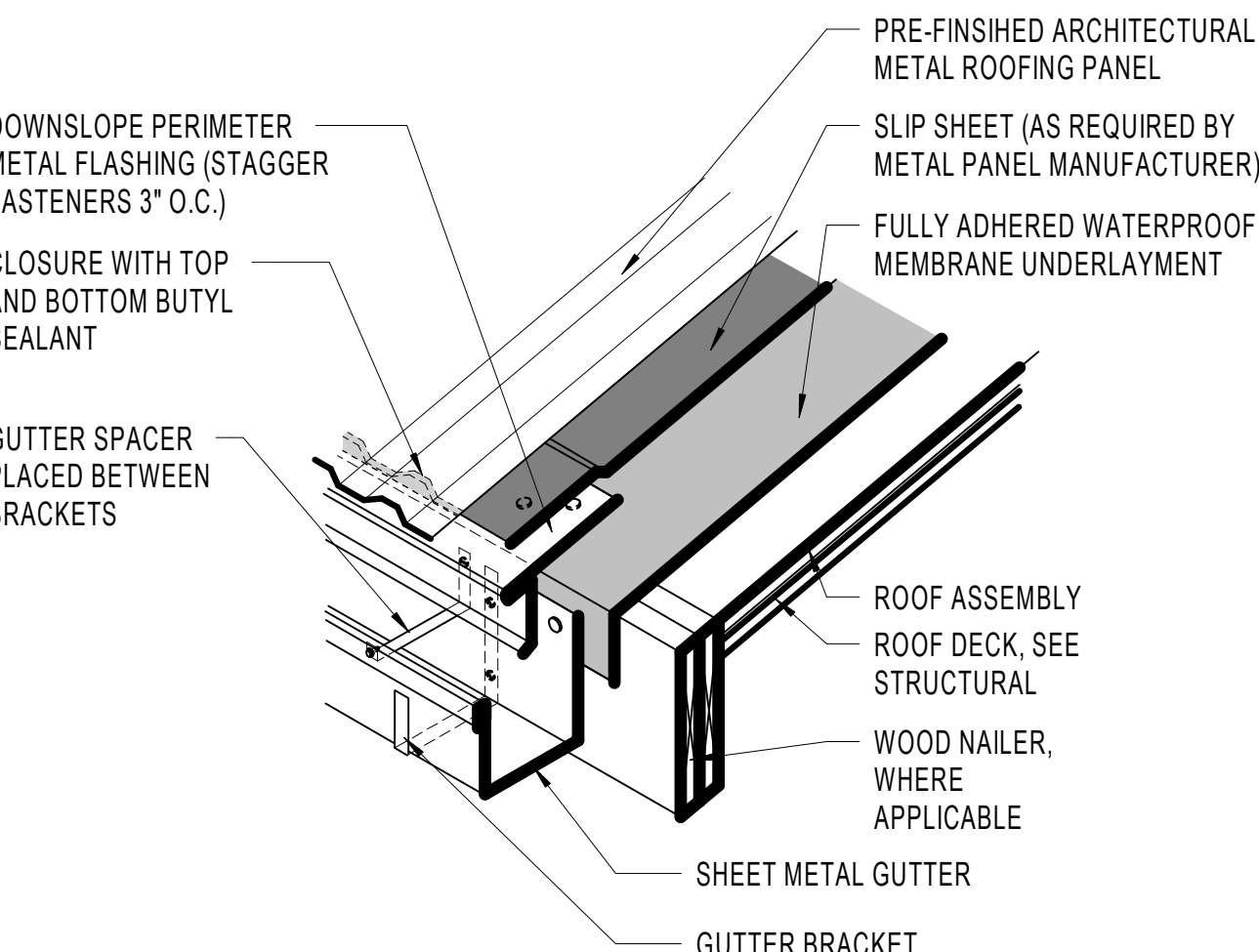
**B6** ROOFING (METAL) - EDGE w/ RAKE  
A122 1 1/2" = 1'-0"



**A2** ROOFING (METAL) - PLUMBING STACK  
A122 1 1/2" = 1'-0"



**A4** ROOFING (METAL) - EAVE  
A122 1 1/2" = 1'-0"



**A6** ROOFING (METAL) - EDGE w/ GUTTER  
A122 1 1/2" = 1'-0"

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ROOF DETAILS

A122



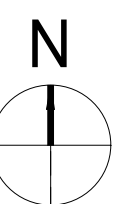
GENERAL NOTE - RCP

- A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- B. THE CEILING HEIGHT SHOWN IN THE ROOM TAG INDICATES THE HEIGHT OF THE DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHT OR FEATURES.
- C. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHIEVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THE PROJECT FROM PROCEEDING BEFORE PROCEEDING WITH THE WORK.
- D. AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT.

## KEYNOTE LEGEND

- 10:BW1 BOULDERING WALL. SEE SHEET A702  
23:DL1 DUCT LINER; SEE MECHANICAL  
23:RH1 HATCH. SEE MECHANICAL  
26:EF3 ELECTRICAL FIXTURE ALIGNMENT WITH  
FINISH, TO BE VERIFIED DURING  
CONSTRUCTION  
26:LF1 LIGHT FIXTURE, SEE ELECTRICAL

**A1 LEVEL 01 - REFLECTED CEILING PLAN - AREA A**  
A151A 1/4" = 1'-0"





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A

B

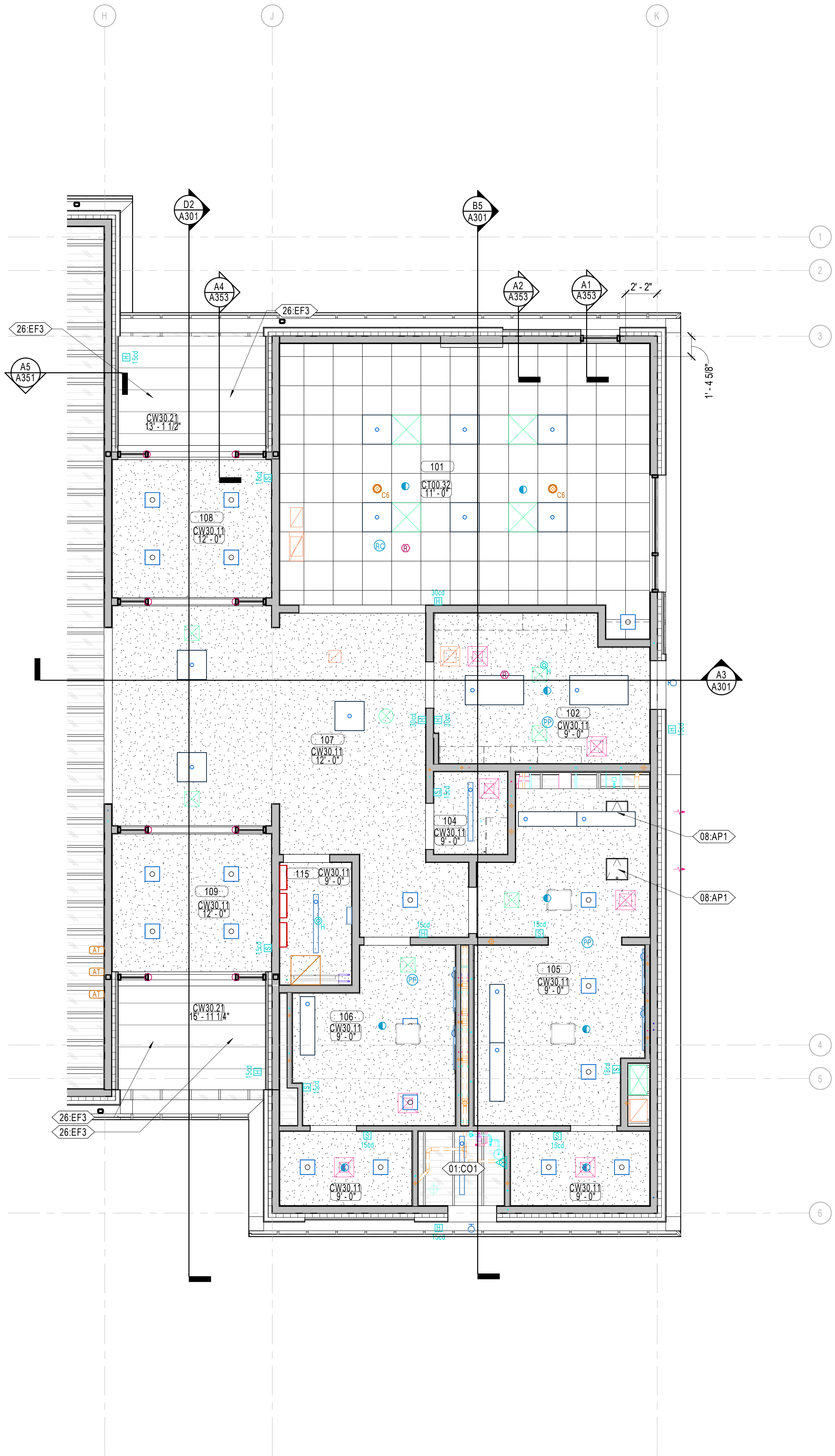
C

D

E

A4  
A151B

LEVEL 01 - REFLECTED CEILING PLAN - AREA B  
1/4" = 1'-0"



**GENERAL NOTE - RCP**

A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.

B. THE CEILING HEIGHT SHOWN IN THE ROOM TAG INDICATES THE HEIGHT OF THE DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHT OR FEATURES.

C. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHIEVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THIS FROM OCCURRING BEFORE PROCEEDING WITH THE WORK.

D. AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT.

**KEYNOTE LEGEND**

01-C01 CEILING OPEN TO STRUCTURE ABOVE

08-AP1 CEILING ACCESS PANEL 18" X 18"

26-EF3 ELECTRICAL FIXTURE ALIGNMENT WITH FINISH, TO BE VERIFIED DURING CONSTRUCTION



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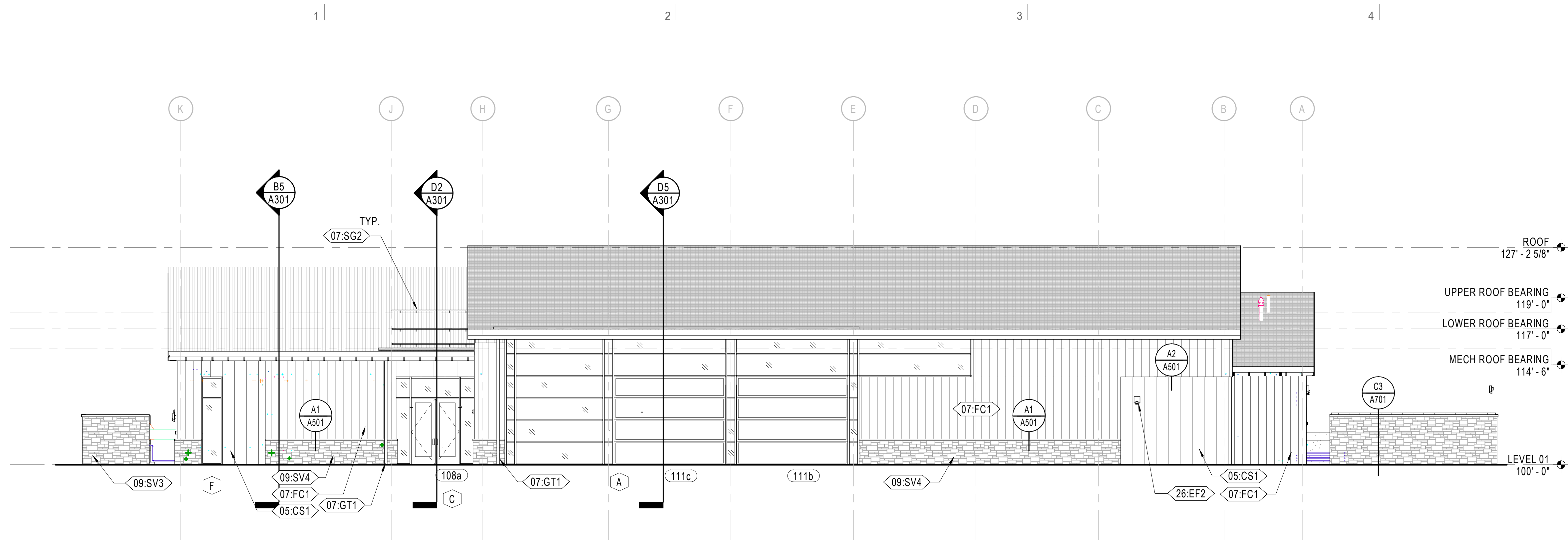
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**REFLECTED  
CEILING PLAN -  
AREA B**

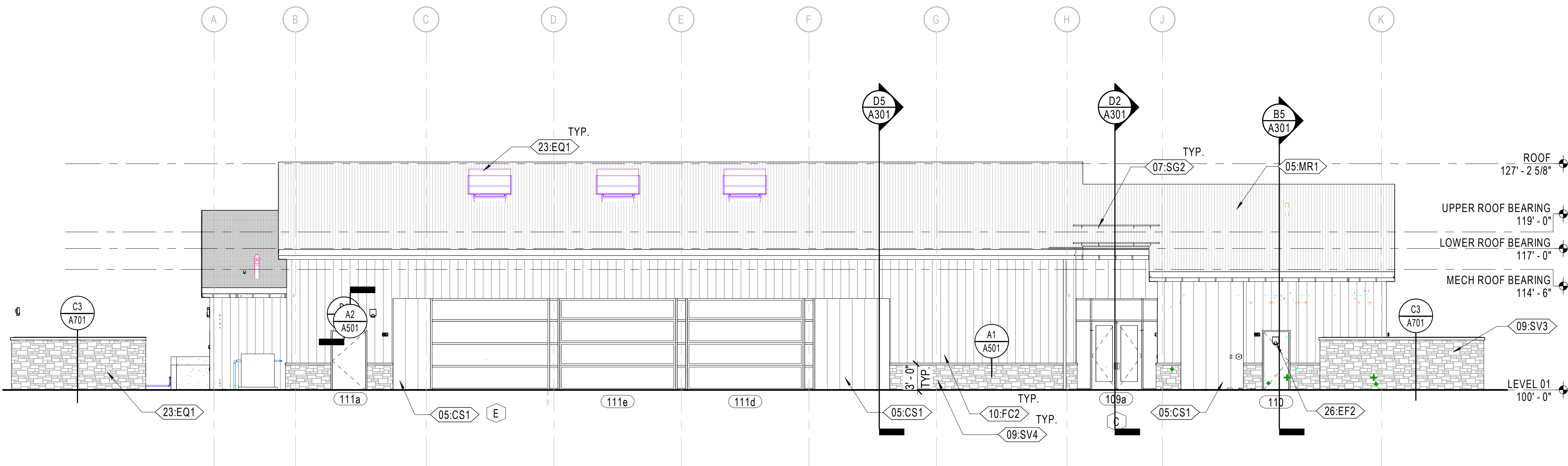
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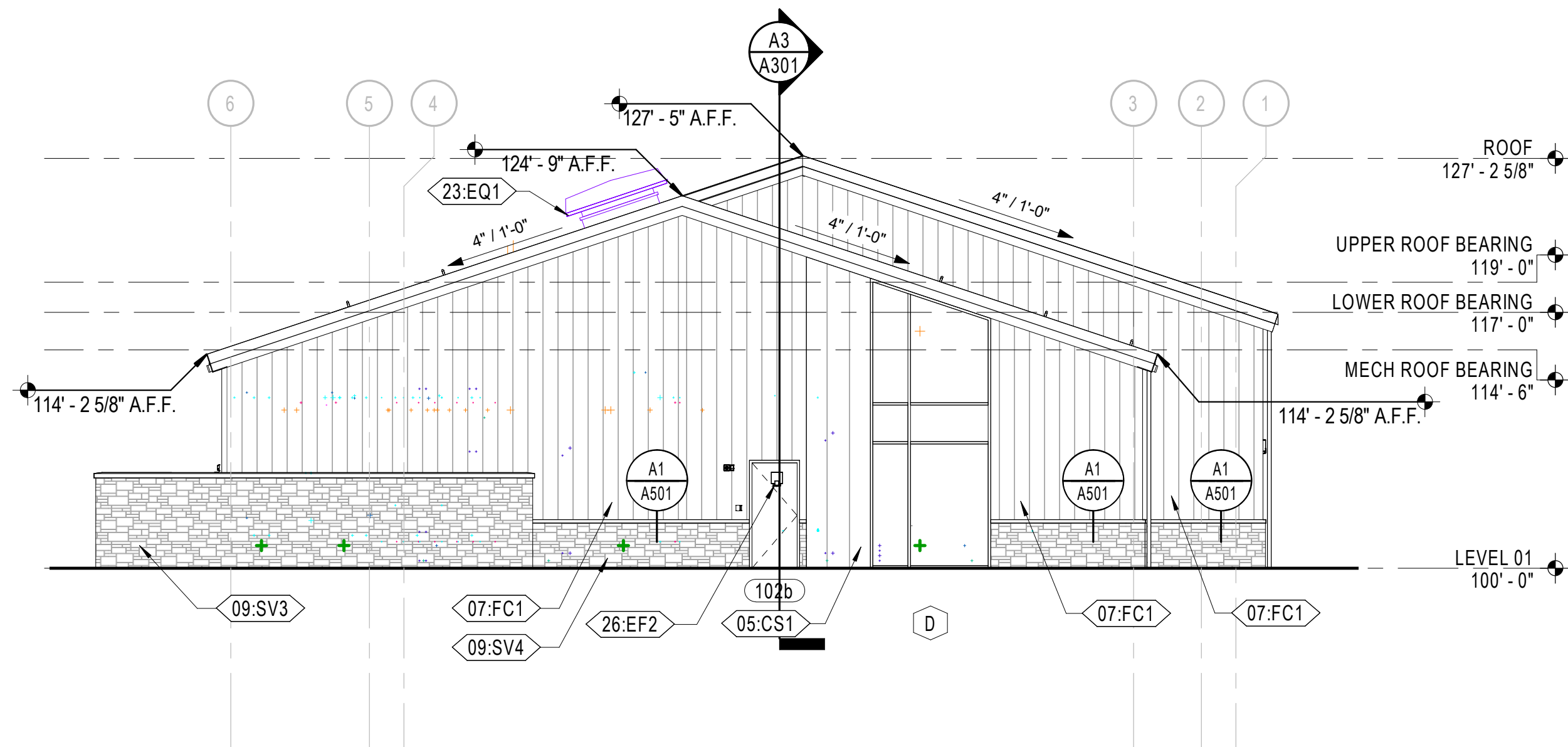
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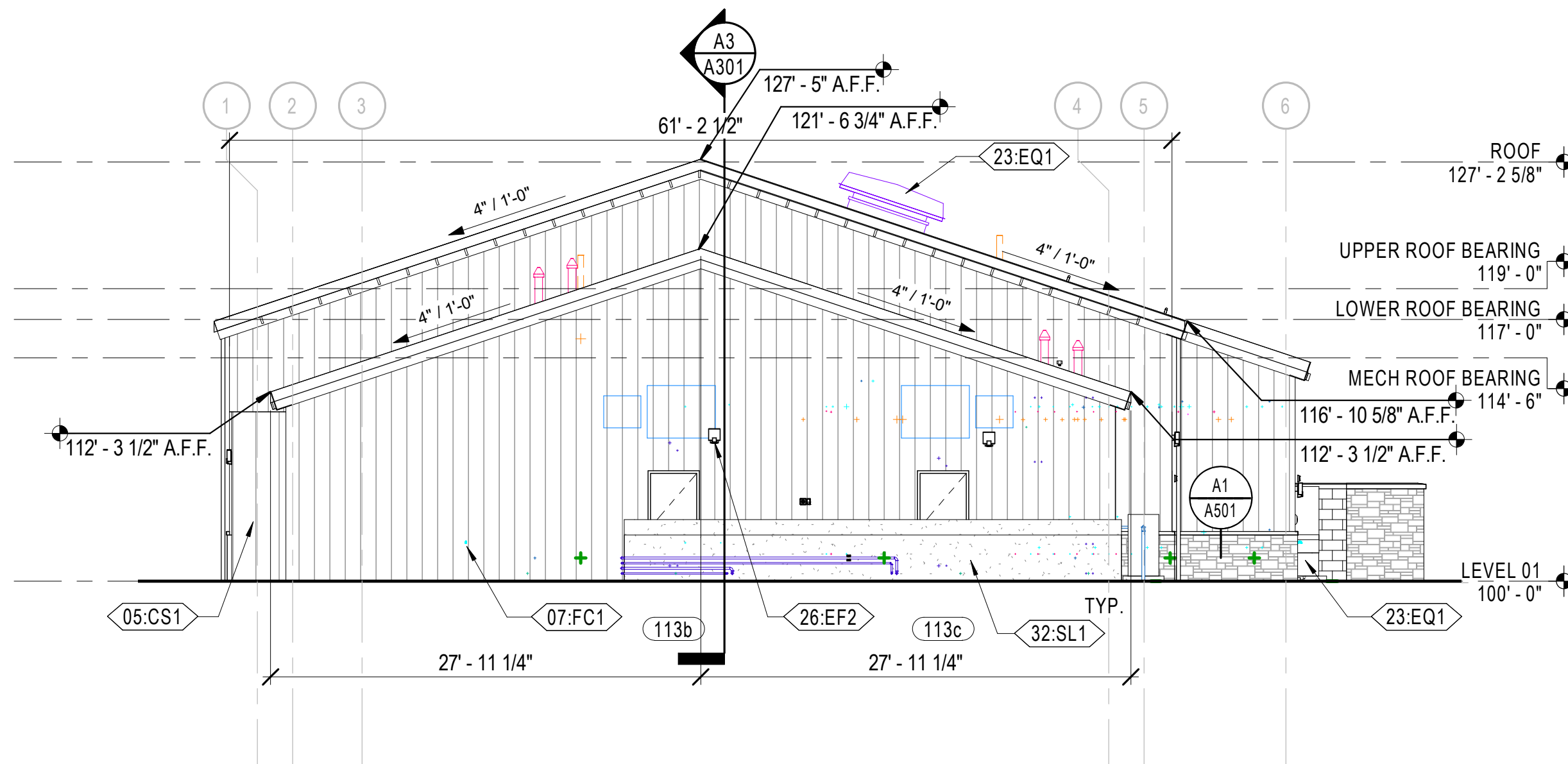
**D1 BUILDING ELEVATION (NORTH)**  
A201 1/8" = 1'-0"



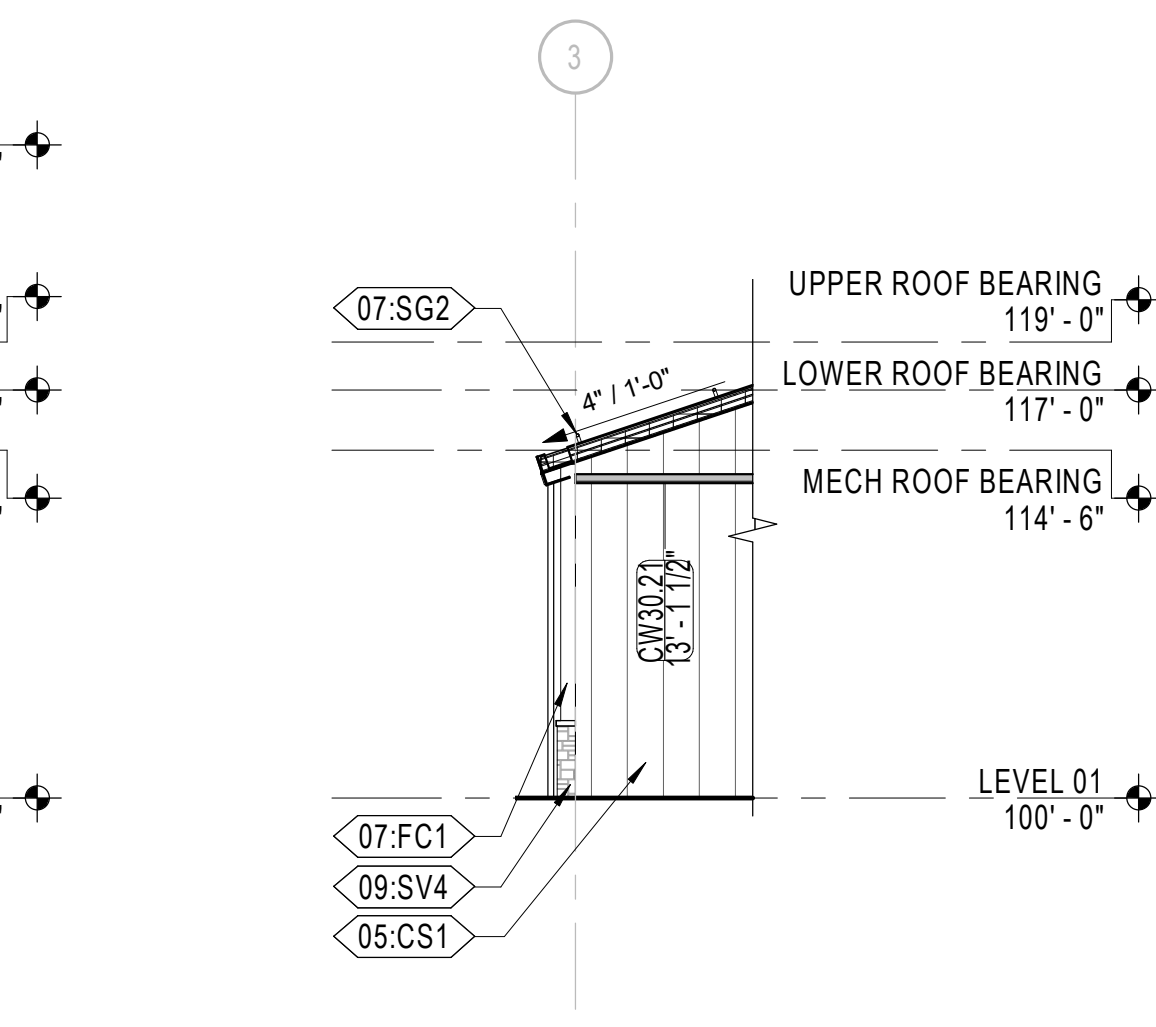
**B1 BUILDING ELEVATION (SOUTH)**  
A201 1/8" = 1'-0"



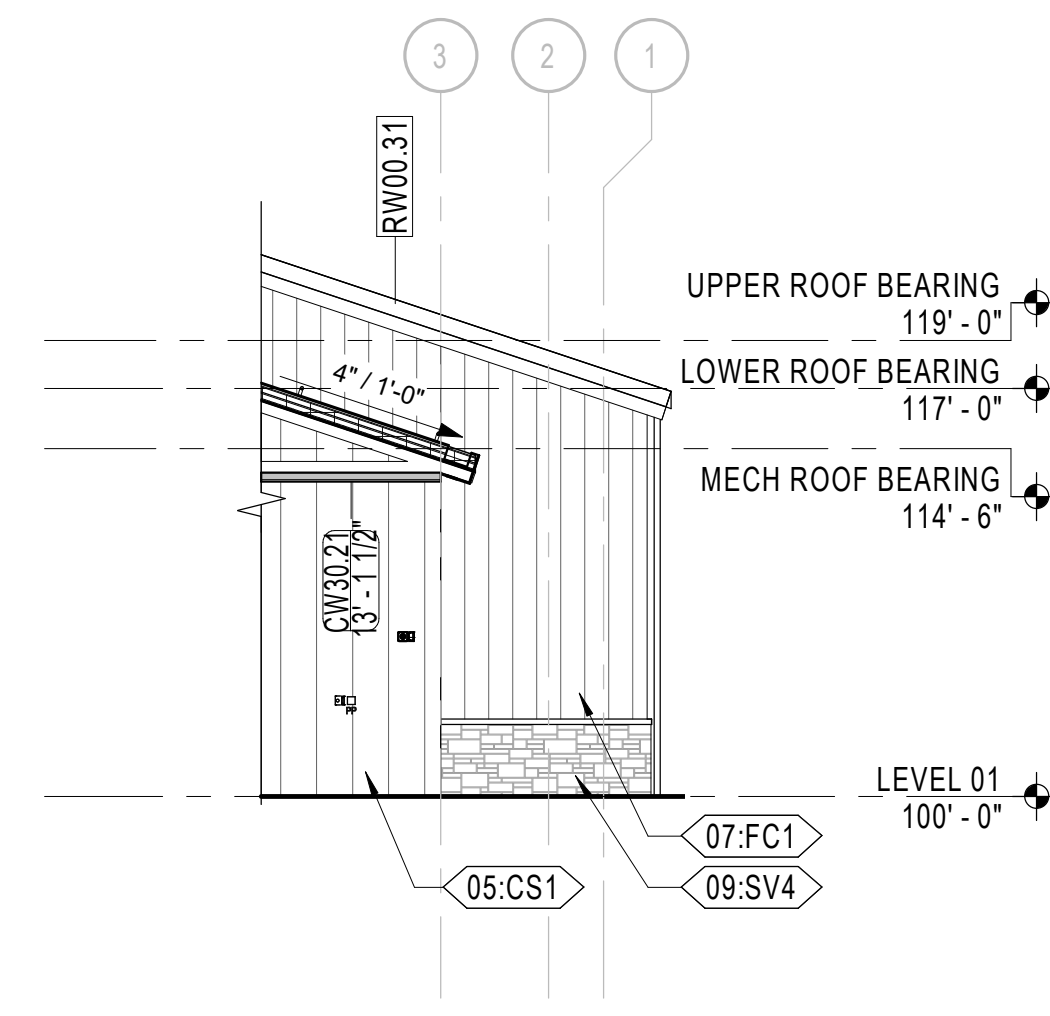
**A1 BUILDING ELEVATION (EAST)**  
A201 1/8" = 1'-0"



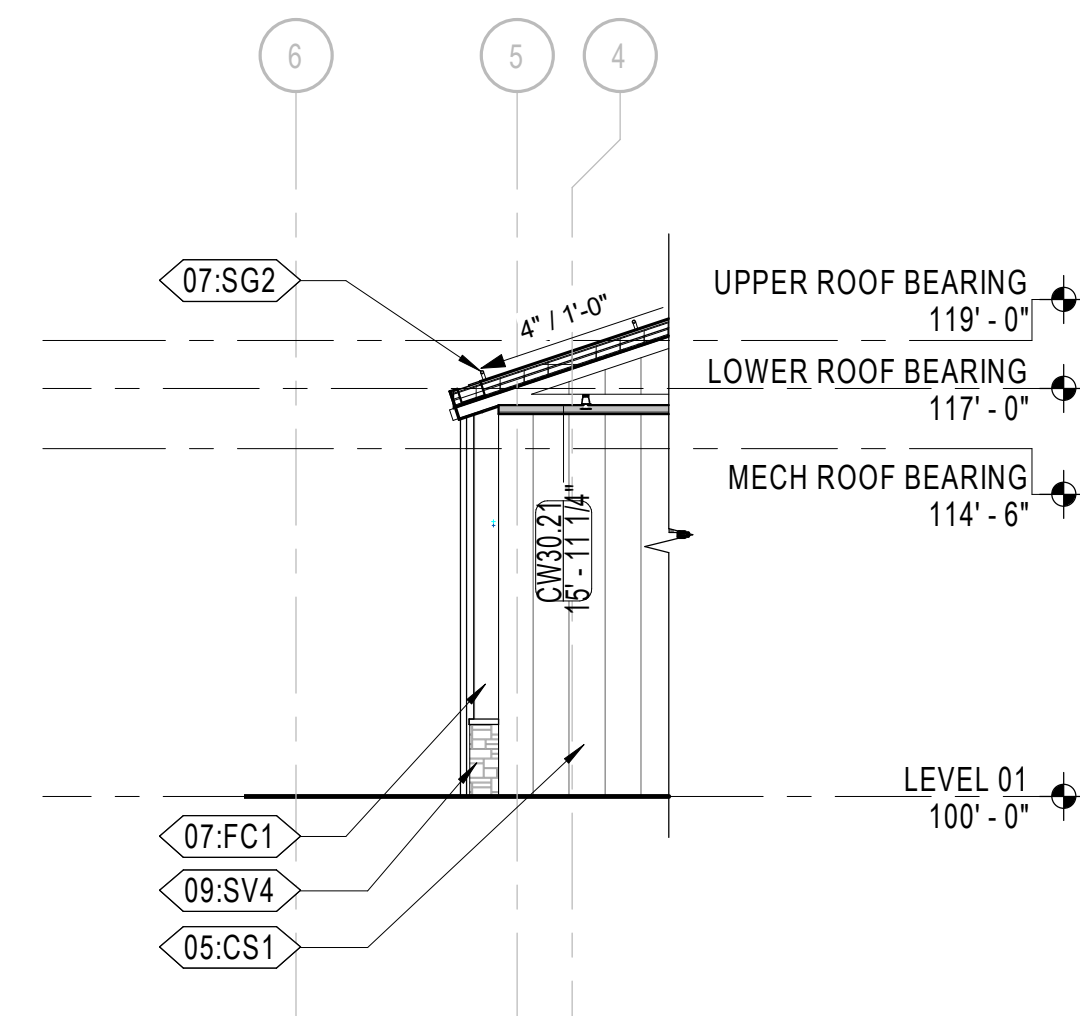
**A4 BUILDING ELEVATION (WEST)**  
A201 1/8" = 1'-0"



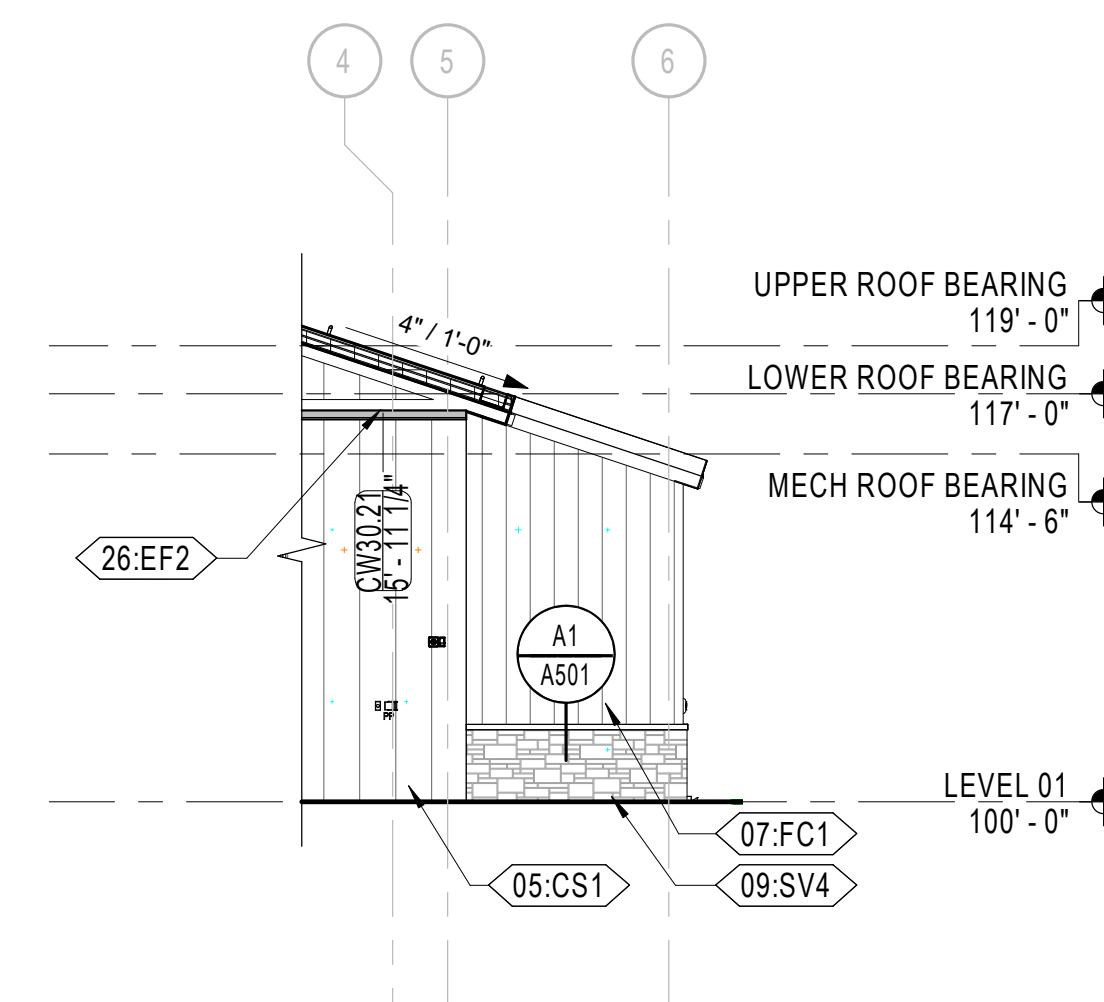
**D5 BUILDING ELEVATION (WEST @ NORTH ENTRY)**  
A201 1/8" = 1'-0"



**B5 BUILDING ELEVATION (EAST @ NORTH ENTRY)**  
A201 1/8" = 1'-0"



**B6 BUILDING ELEVATION (EAST @ SOUTH ENTRY)**  
A201 1/8" = 1'-0"



**A6 BUILDING ELEVATION (WEST @ SOUTH ENTRY)**  
A201 1/8" = 1'-0"

**GENERAL NOTE -  
BUILDING ELEVATION**

- A. COORDINATE GRADING SHOWN ON ELEVATIONS w/ CIVIL
- B. PROVIDE GUTTERS AND DOWN SPOUTS w/ HEAT CABLE, SNOW FENCES, AND SNOW CLIPS - SEE ROOF PLAN
- C. FOR TYPICAL WALL ASSEMBLY INCLUDING MATERIAL DESIGNATIONS AND DETAILING APPROACH, SEE A380 SERIES

**KEYNOTE LEGEND**

- 05.CS1 STEEL PANEL
- 05.MR1 RUSTED CORRUGATED METAL ROOF
- 07.FC1 FIBER CEMENT BOARD AND BATTEN
- 07.GT1 PRE-FINISHED CUSTOM ALUMINUM GUTTER AND DOWNSPOUT
- 07.SG2 SNOWGUARD, ANCHOR TO STRUCTURAL ROOF FRAMING
- 09.SV3 STONE VENEER MECHANICAL SCREEN WALL
- 09.SV4 STONE VENEER
- 10.FC2 SEMI-RECESSED FIRE EXTINGUISHER CABINET - SEE SHEET A701
- 23.EQ1 EQUIPMENT, SEE MECHANICAL
- 26.EF2 ELECTRICAL LIGHT FIXTURE HEIGHTS TO BE VERIFIED DURING CONSTRUCTION
- 32.SL1 SEE LANDSCAPE



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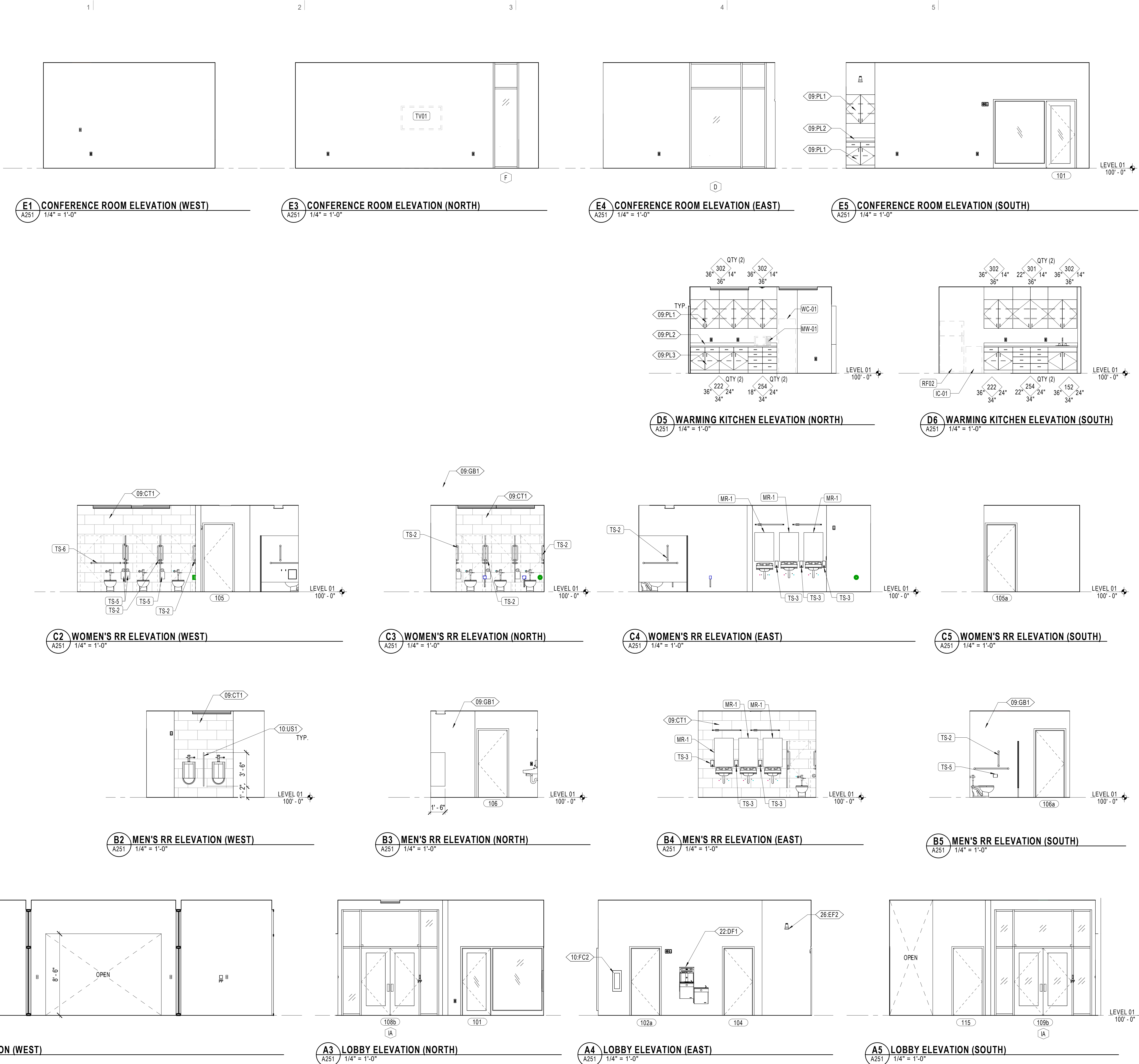
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**BUILDING  
ELEVATIONS**

**A201**



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## GENERAL NOTE - INTERIOR ELEVATION

- ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE SHEET G701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
- PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS, FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
- ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.

## KEYNOTE LEGEND

- |        |  |
|--------|--|
| 09:CT1 | CERAMIC TILE OVER THIN SET MORTAR BED                    |
| 09:GB1 | (1) LAYER 5/8" GYPSUM BOARD                              |
| 09:PL1 | PL-01 MILLWORK FINISH                                    |
| 09:PL2 | PL-02 LAMINATE COUNTERTOP                                |
| 09:PL3 | PL-03 MILLWORK FINISH                                    |
| 10:FC2 | SEMI-RECESSED FIRE EXTINGUISHER CABINET - SEE SHEET A701 |
| 10:US1 | URINAL SCREEN  |
| 22:DF1 | DRINKING FOUNTAIN  |
| 26:EF2 | ELECTRICAL LIGHT FIXTURE                                 |
- HEIGHTS TO BE VERIFIED DURING CONSTRUCTION



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## INTERIOR ELEVATIONS

A251



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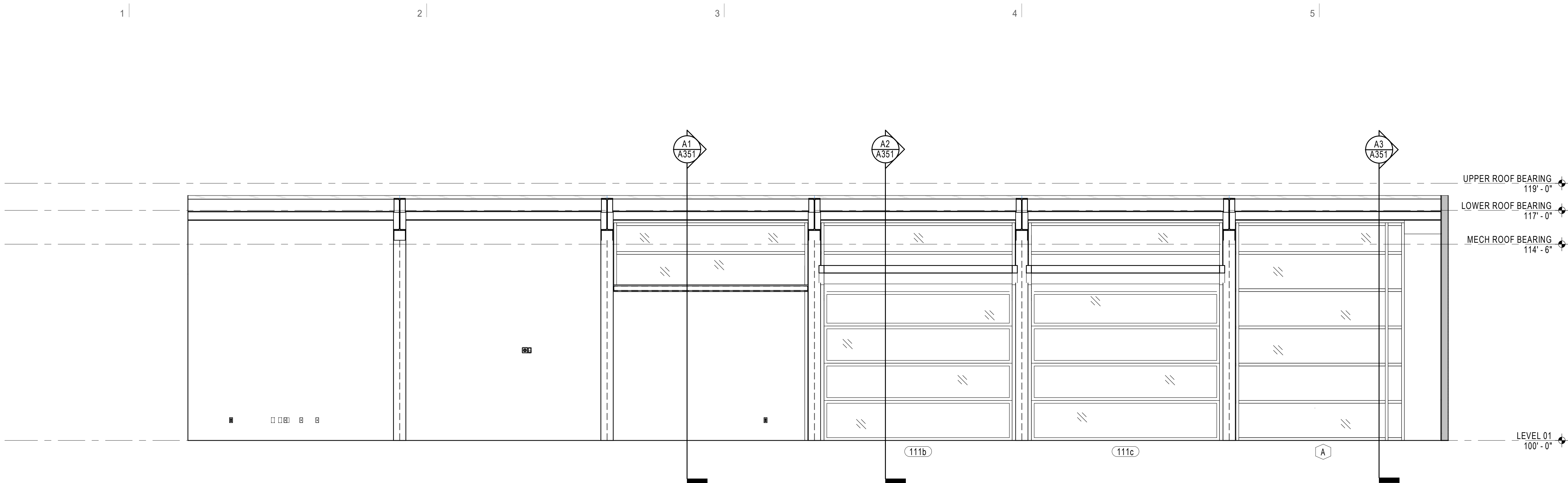
A

B

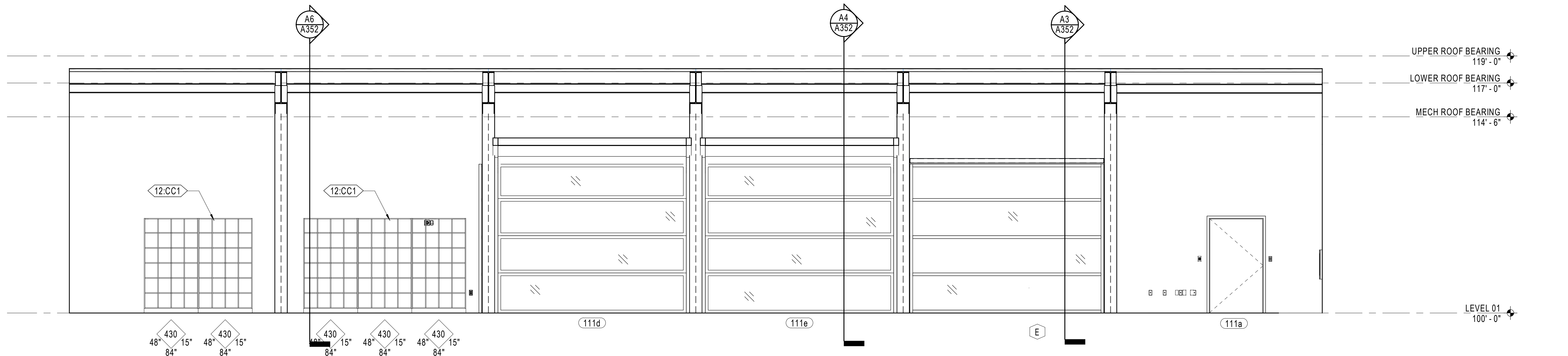
C

D

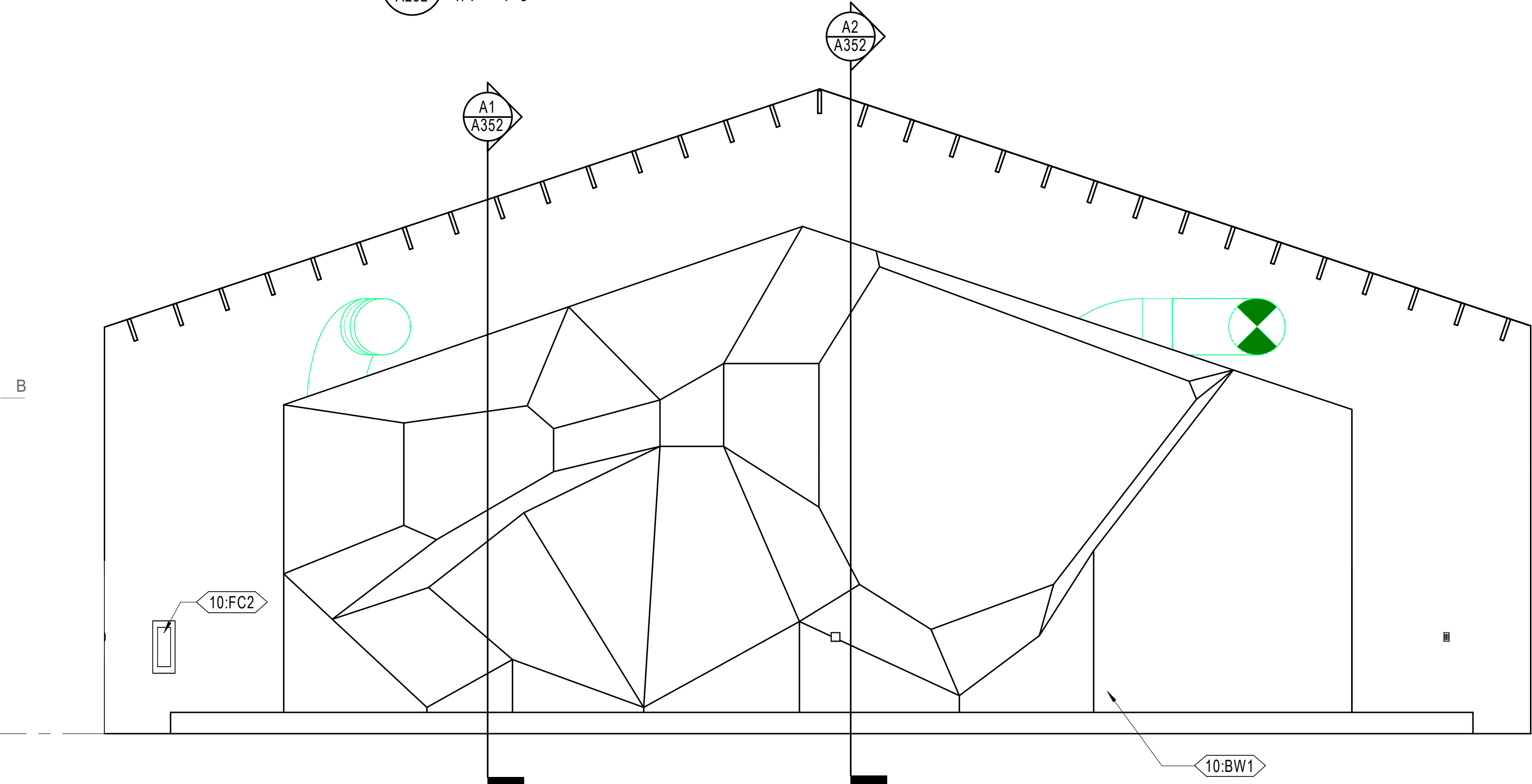
E



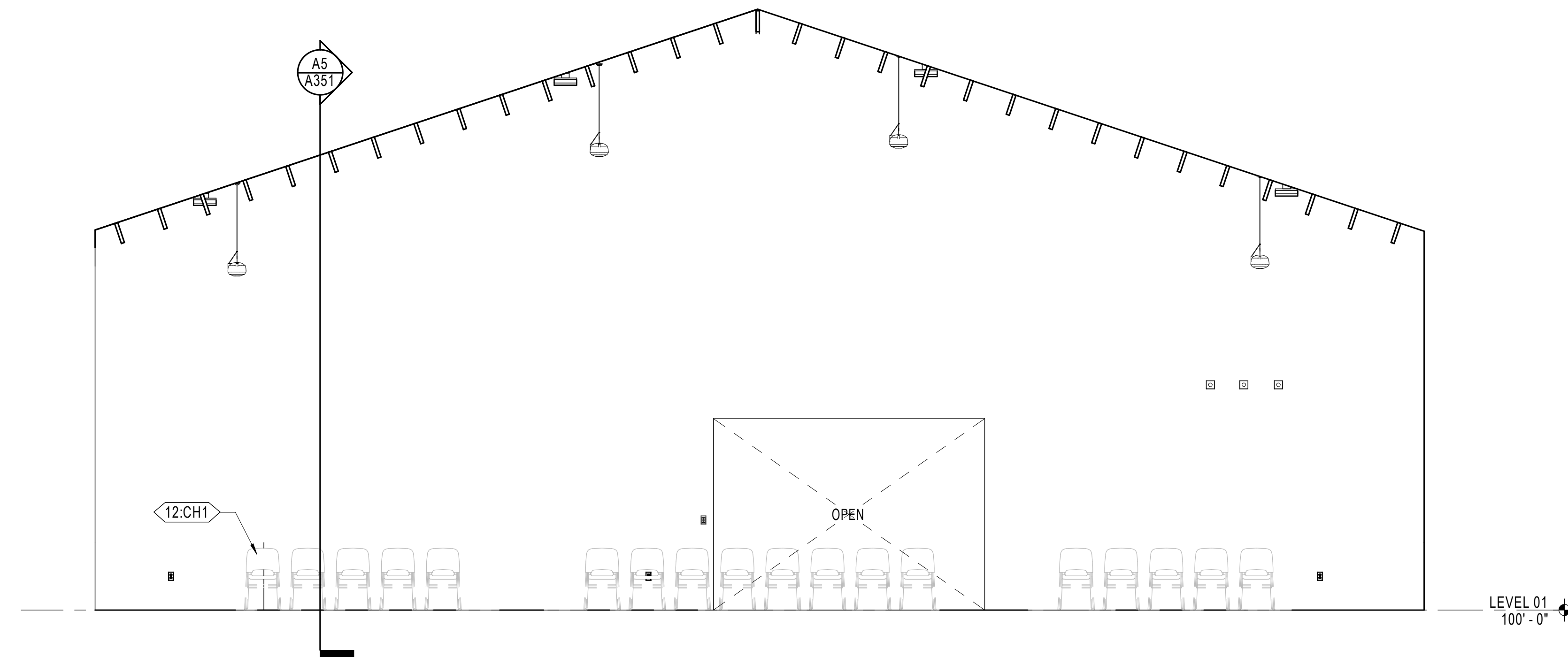
**D2** ACTIVITY ROOM ELEVATION (NORTH)  
A252 1/4" = 1'-0"



**B2** ACTIVITY ROOM ELEVATION (SOUTH)  
A252 1/4" = 1'-0"



**A1** ACTIVITY ROOM ELEVATION (WEST)  
A252 1/4" = 1'-0"



**A4** ACTIVITY ROOM ELEVATION (EAST)  
A252 1/4" = 1'-0"

**GENERAL NOTE -  
INTERIOR ELEVATION**

- A. ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE SHEET 6701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
- B. PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS. FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
- C. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.

**KEYNOTE LEGEND**

- 10.BW1 BOULDERING WALL. SEE SHEET A702
- 10.FC2 SEMI-RECESSED FIRE EXTINGUISHER CABINET - SEE SHEET A701
- 12.CC1 CASEWORK CUBBIES. OFOI. FINISH TO BE PL-04
- 12.CH1 CHAIR. OFOI.



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**INTERIOR  
ELEVATIONS**

**A252**



1 | 2 | 3 | 4 | 5 | 6 |

E

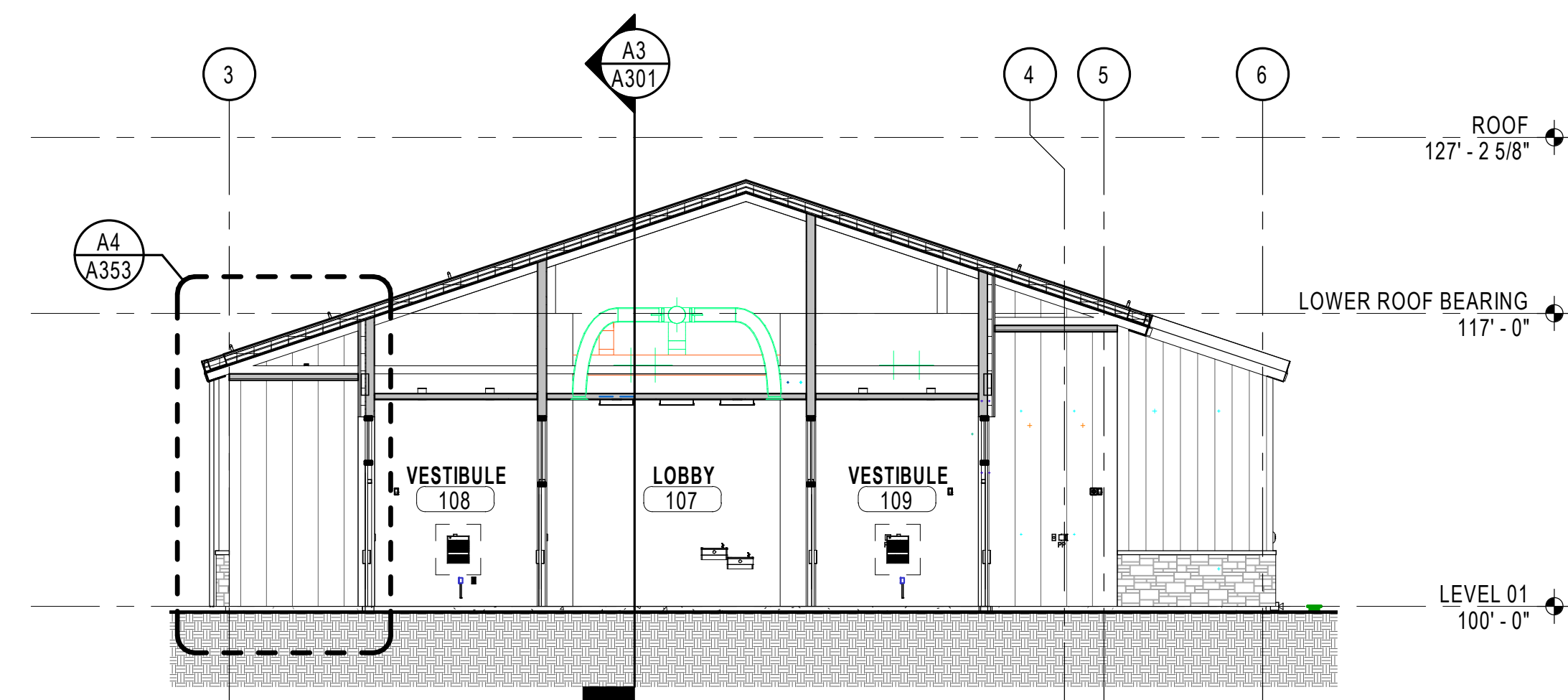
D

C

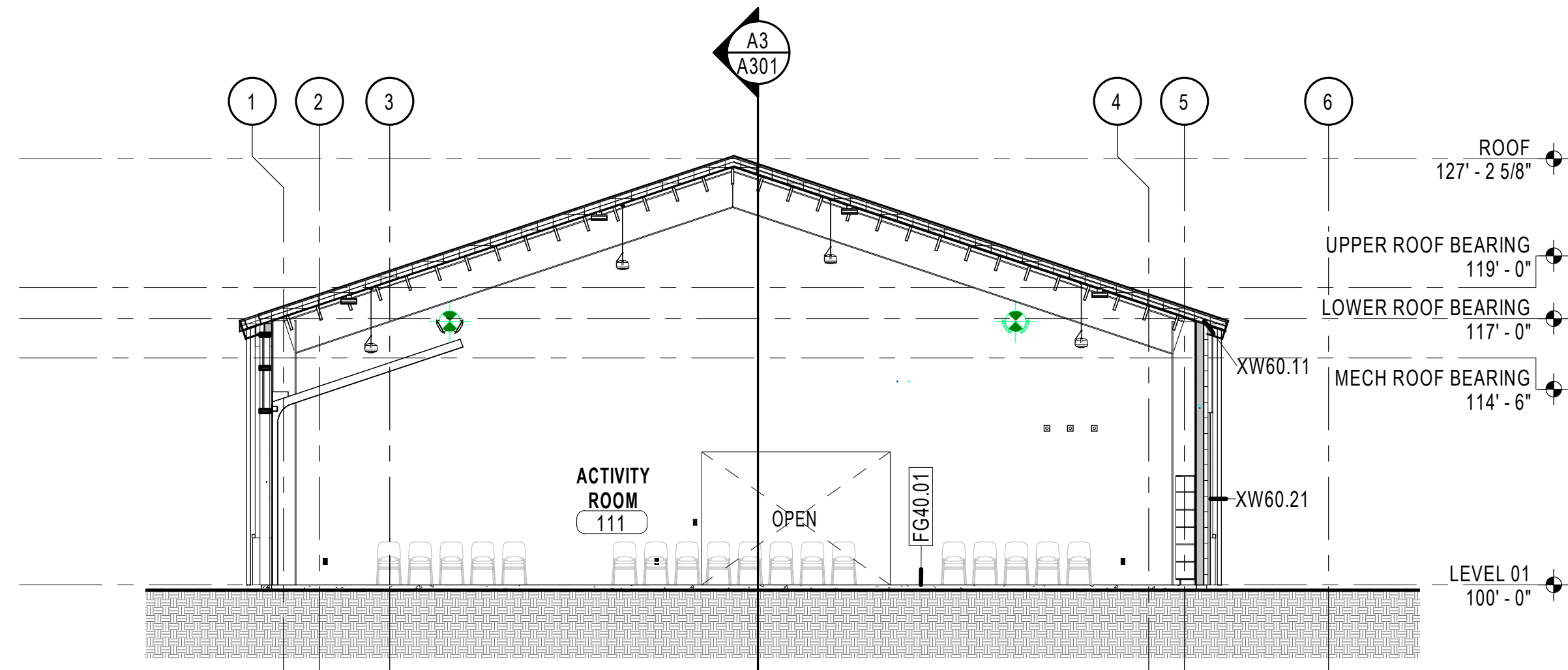
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A

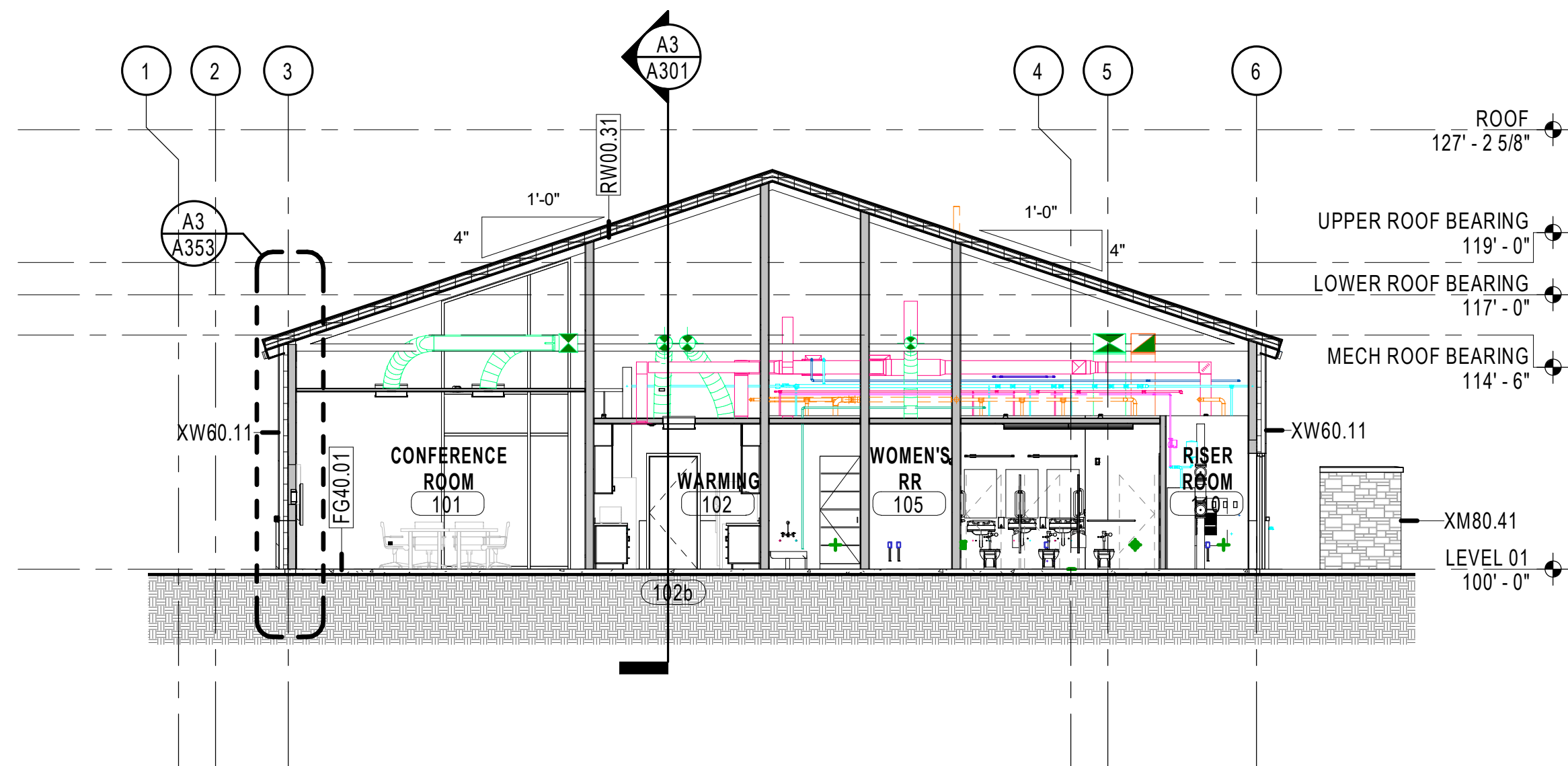
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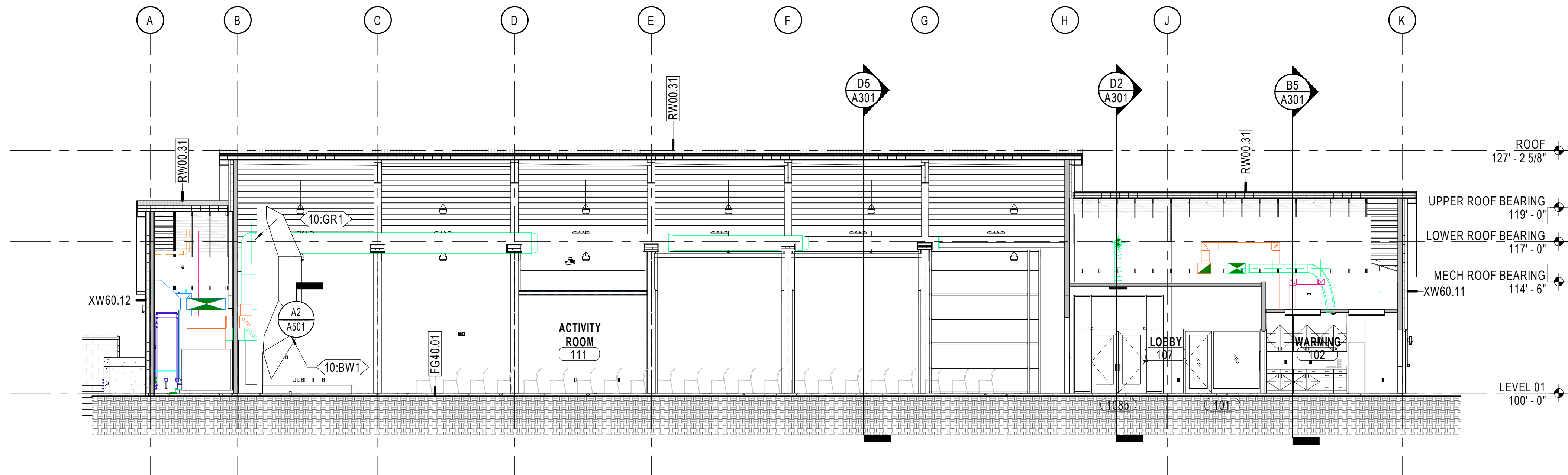
**D2 BUILDING SECTION - TRANSVERSE 4**  
A301 1/8" = 1'-0"



**D5 BUILDING SECTION - TRANSVERSE 1**  
A301 1/8" = 1'-0"



**B5 BUILDING SECTION - TRANSVERSE 2**  
A301 1/8" = 1'-0"



**A3 BUILDING SECTION - LONGITUDINAL**  
A301 1/8" = 1'-0"

**GENERAL NOTE - SECTION**

- A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- D. DO NOT SCALE DRAWINGS.

**KEYNOTE LEGEND**

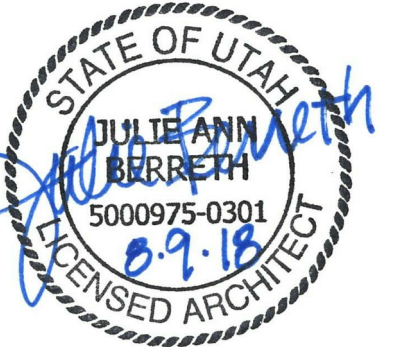
- 10.BW1 BOULDERING WALL. SEE SHEET A702
- 10.GR1 TOP GRILLE FOR AIR SUPPLY ON TOP OF BOULDERING WALL - SEE MECHANICAL.



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**BUILDING SECTIONS**

**A301**



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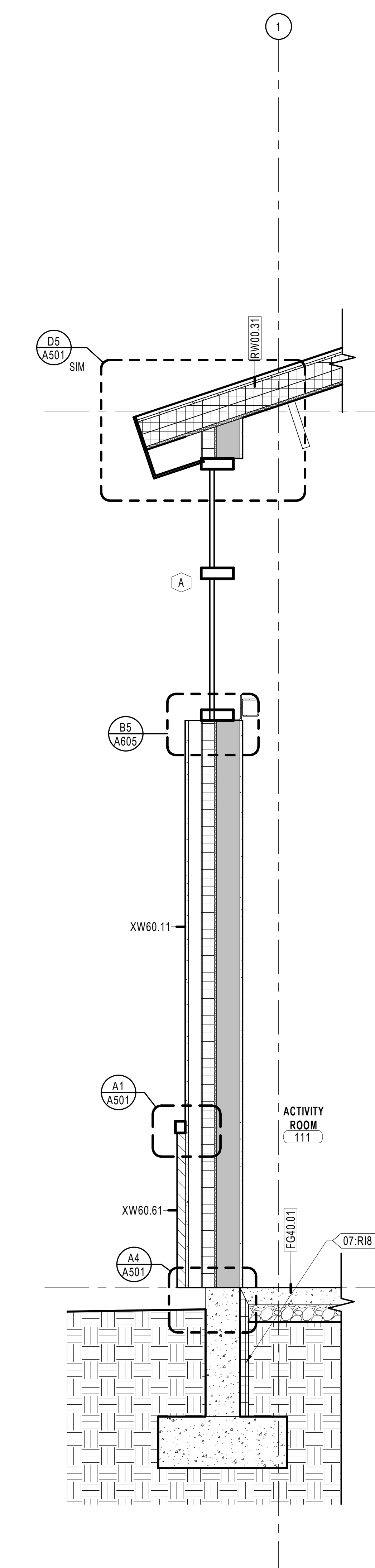
A

E

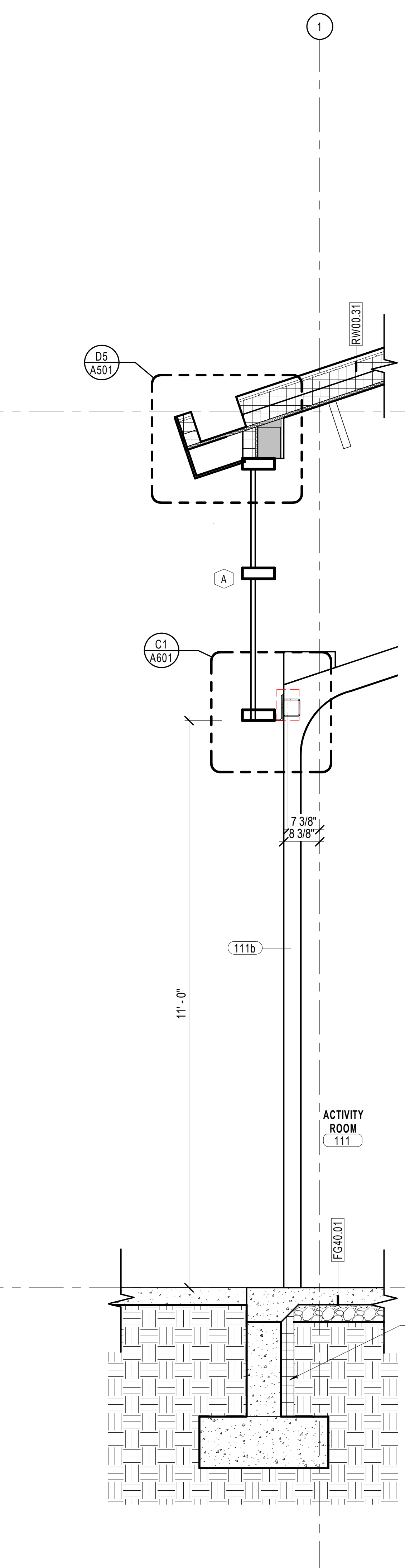
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C

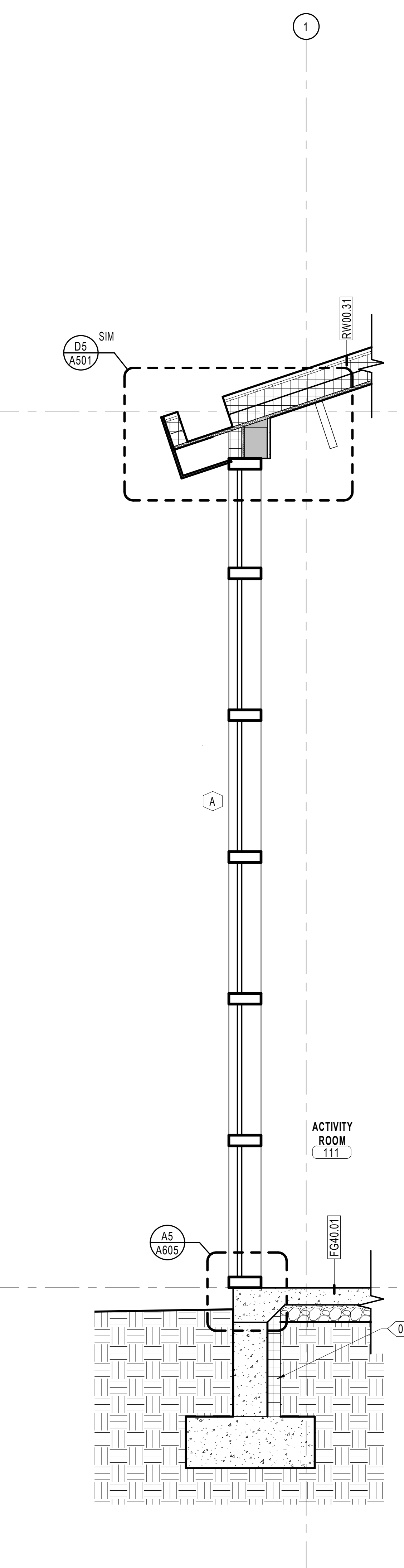
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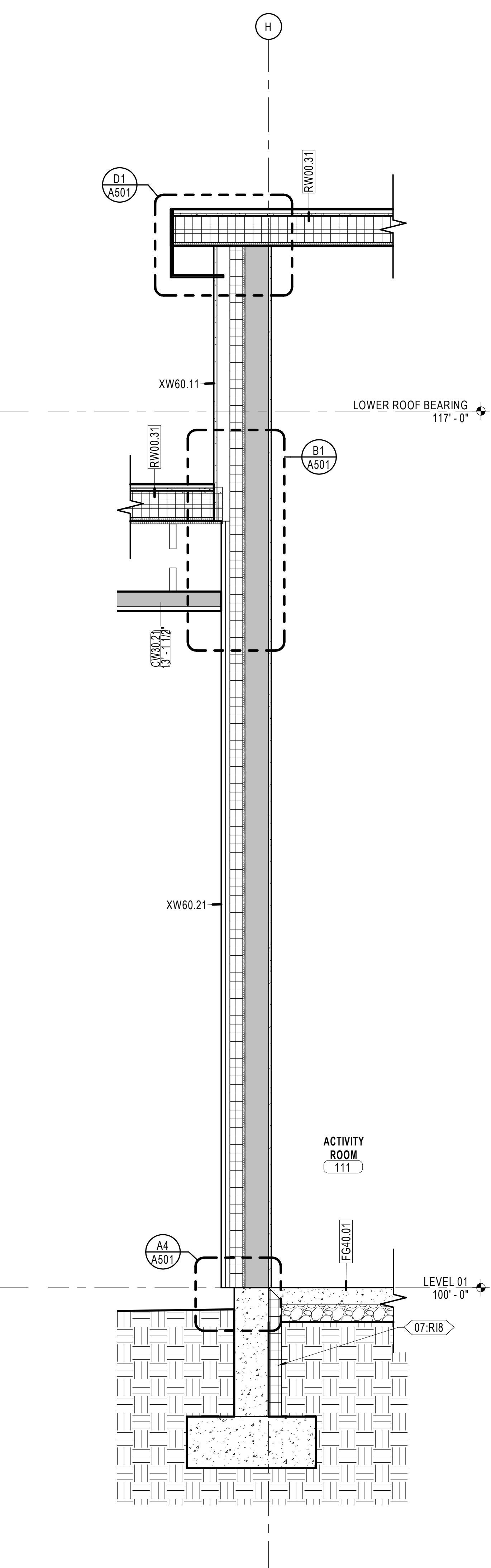
WALL SECTION (NORTH WALL W/ CLERESTORY) GRID D/1  
A1 A351 3/4" = 1'-0"



WALL SECTION (SECTIONAL DOOR) GRID E/1  
A2 A351 3/4" = 1'-0"



WALL SECTION (NORTH CURTAIN WALL) GRID H/1  
A3 A351 3/4" = 1'-0"



WALL SECTION (WALL NORTH ENTRANCE) GRID H/3  
A5 A351 3/4" = 1'-0"

GENERAL NOTE - SECTION

A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.

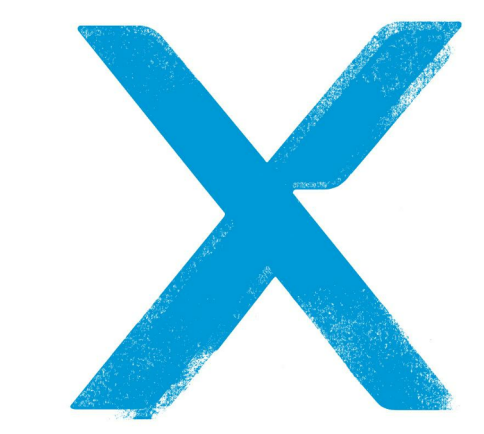
B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

D. DO NOT SCALE DRAWINGS.

KEYNOTE LEGEND

07-R18 FOUNDATION INSULATION



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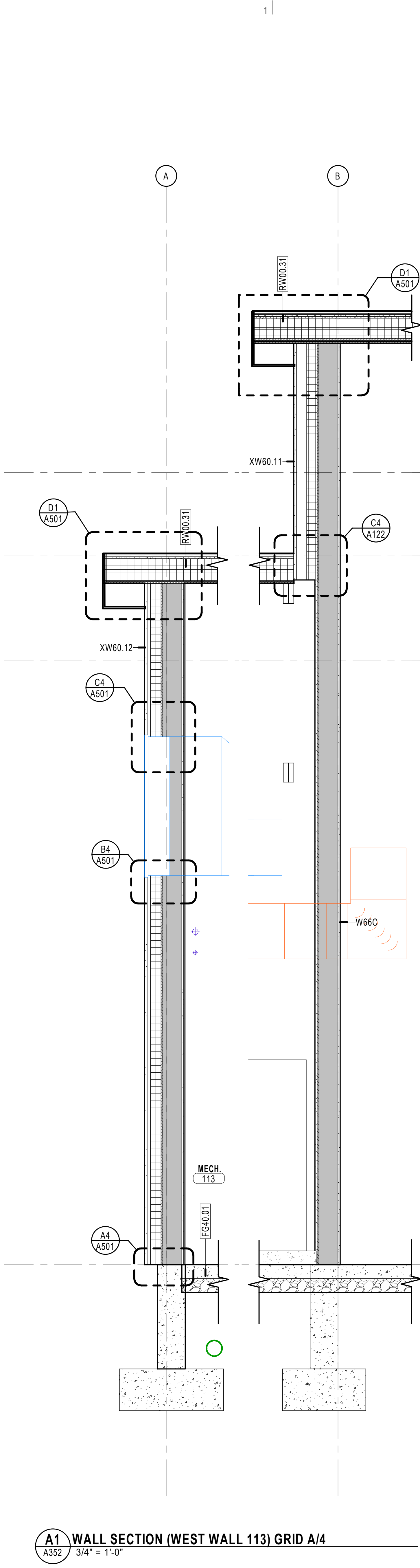
WALL SECTIONS - EXT.

A351

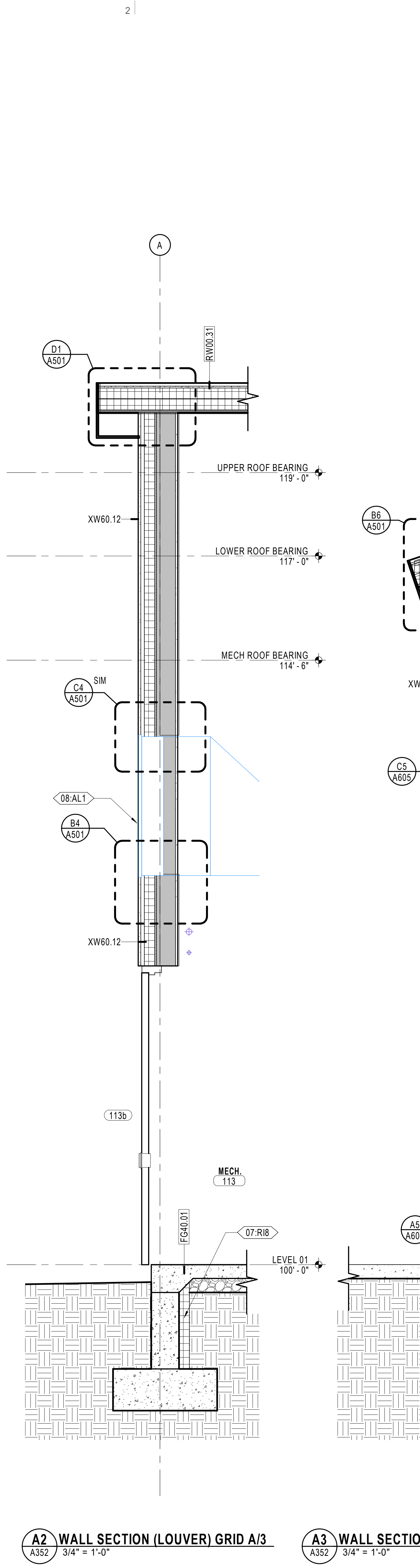


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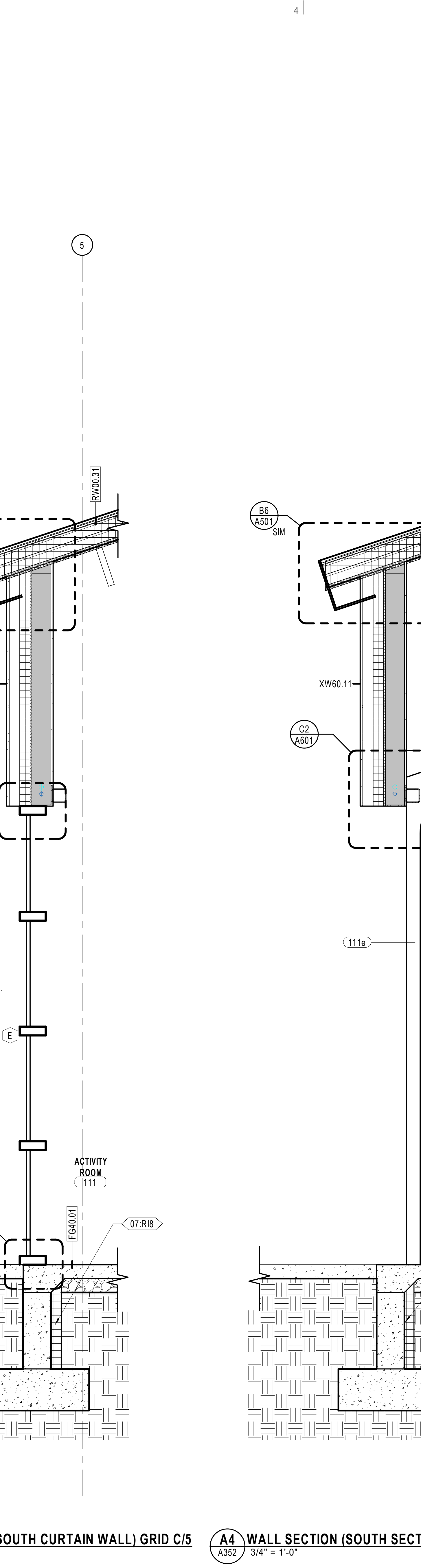
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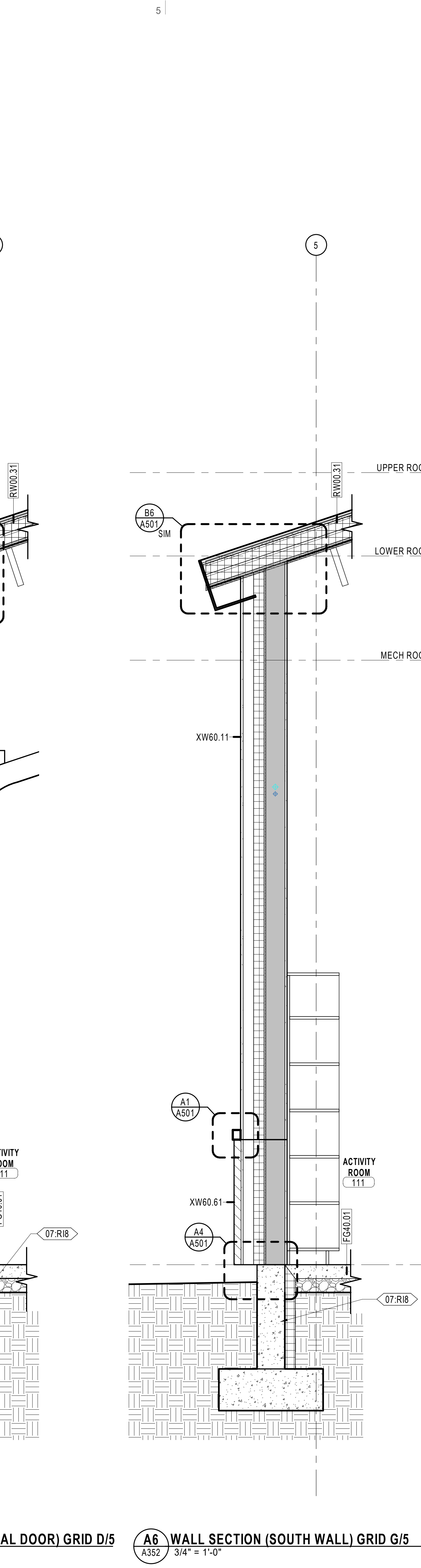
**A1 WALL SECTION (WEST WALL 113) GRID A/4**  
A352 3/4" = 1'-0"



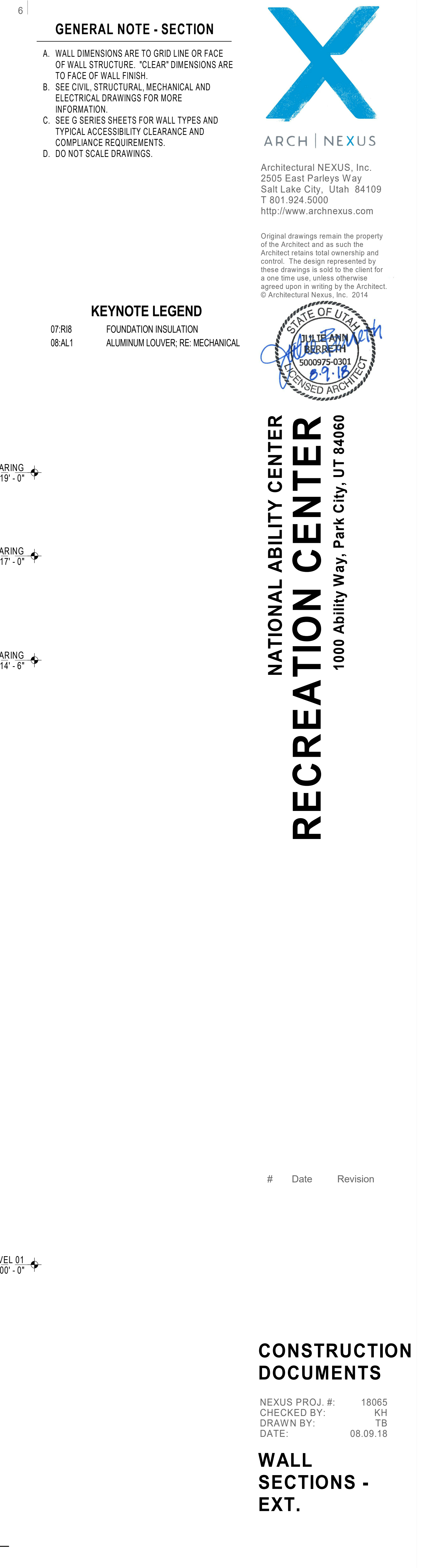
**A2 WALL SECTION (LOUVER) GRID A/3**  
A352 3/4" = 1'-0"



**A3 WALL SECTION (SOUTH CURTAIN WALL) GRID C/5**  
A352 3/4" = 1'-0"



**A4 WALL SECTION (SOUTH SECTIONAL DOOR) GRID D/5**  
A352 3/4" = 1'-0"



**A6 WALL SECTION (SOUTH WALL) GRID G/5**  
A352 3/4" = 1'-0"

**GENERAL NOTE - SECTION**

A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.

B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

D. DO NOT SCALE DRAWINGS.

**KEYNOTE LEGEND**

07.R18 FOUNDATION INSULATION

08.AL1 ALUMINUM LOUVER; RE: MECHANICAL



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**WALL  
SECTIONS -  
EXT.**

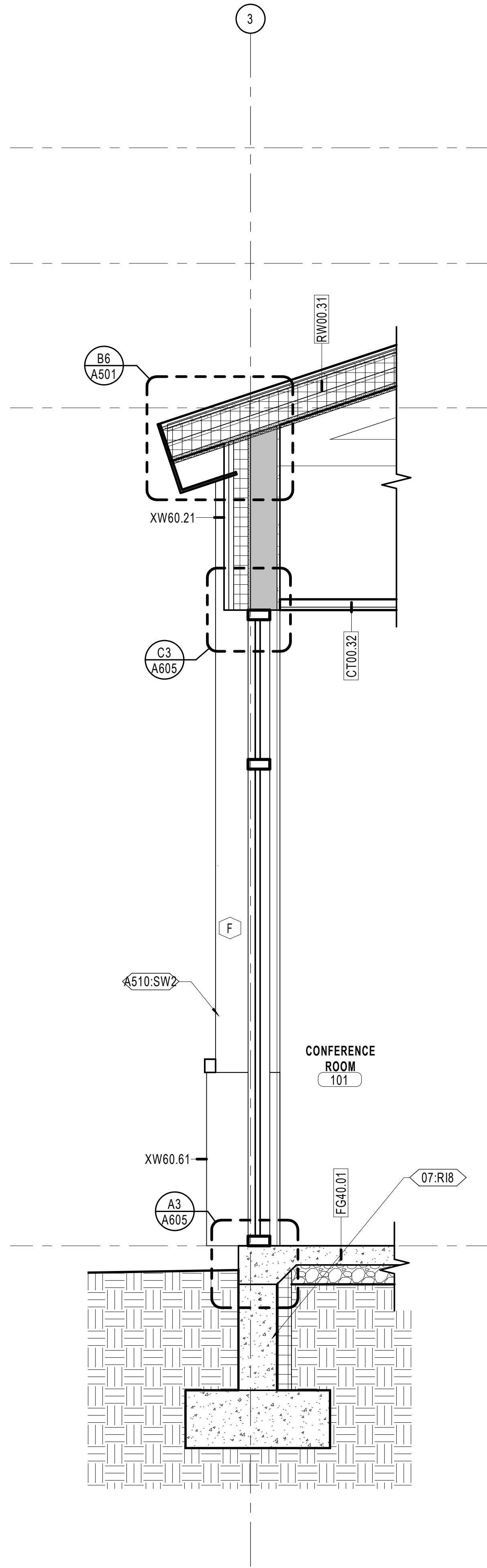
**A352**



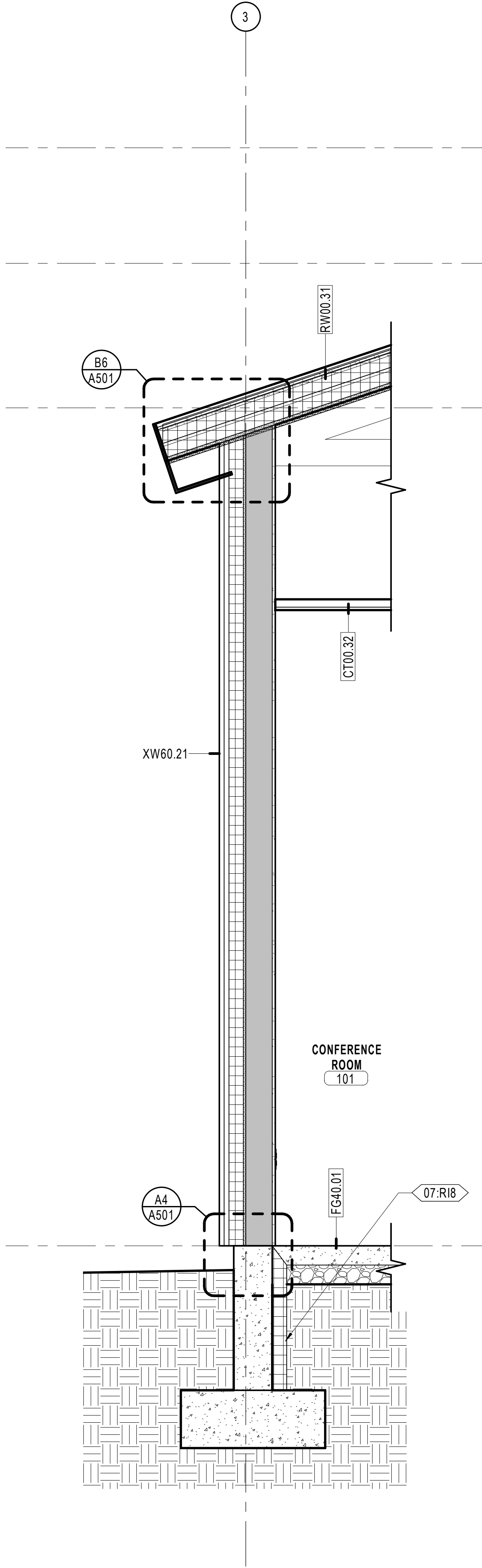
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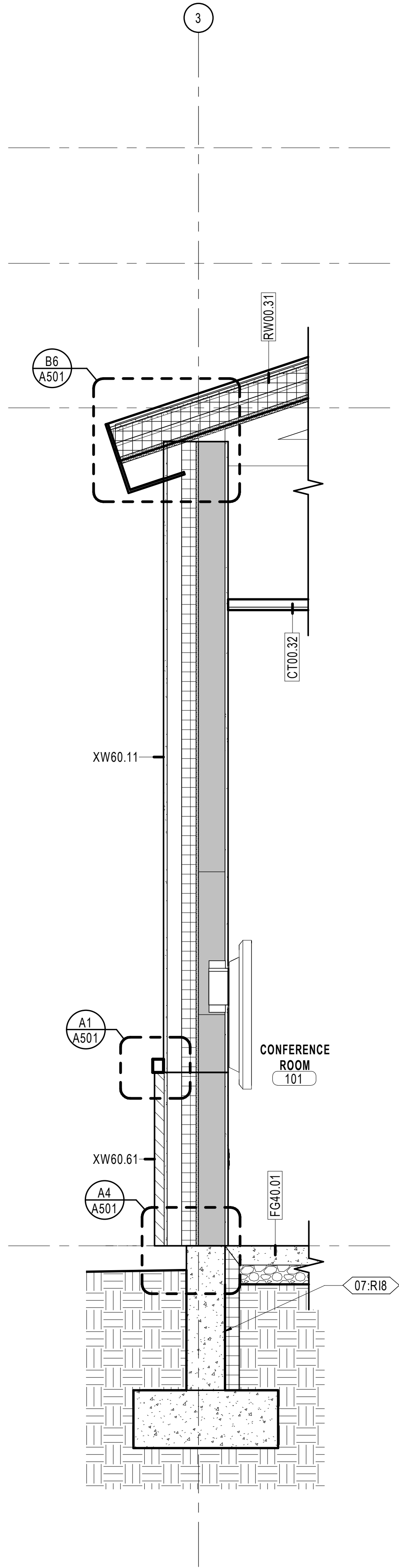
**A1** WALL SECTION (NORTH CURTAIN WALL) GRID K/3  
A353 3/4" = 1'-0"



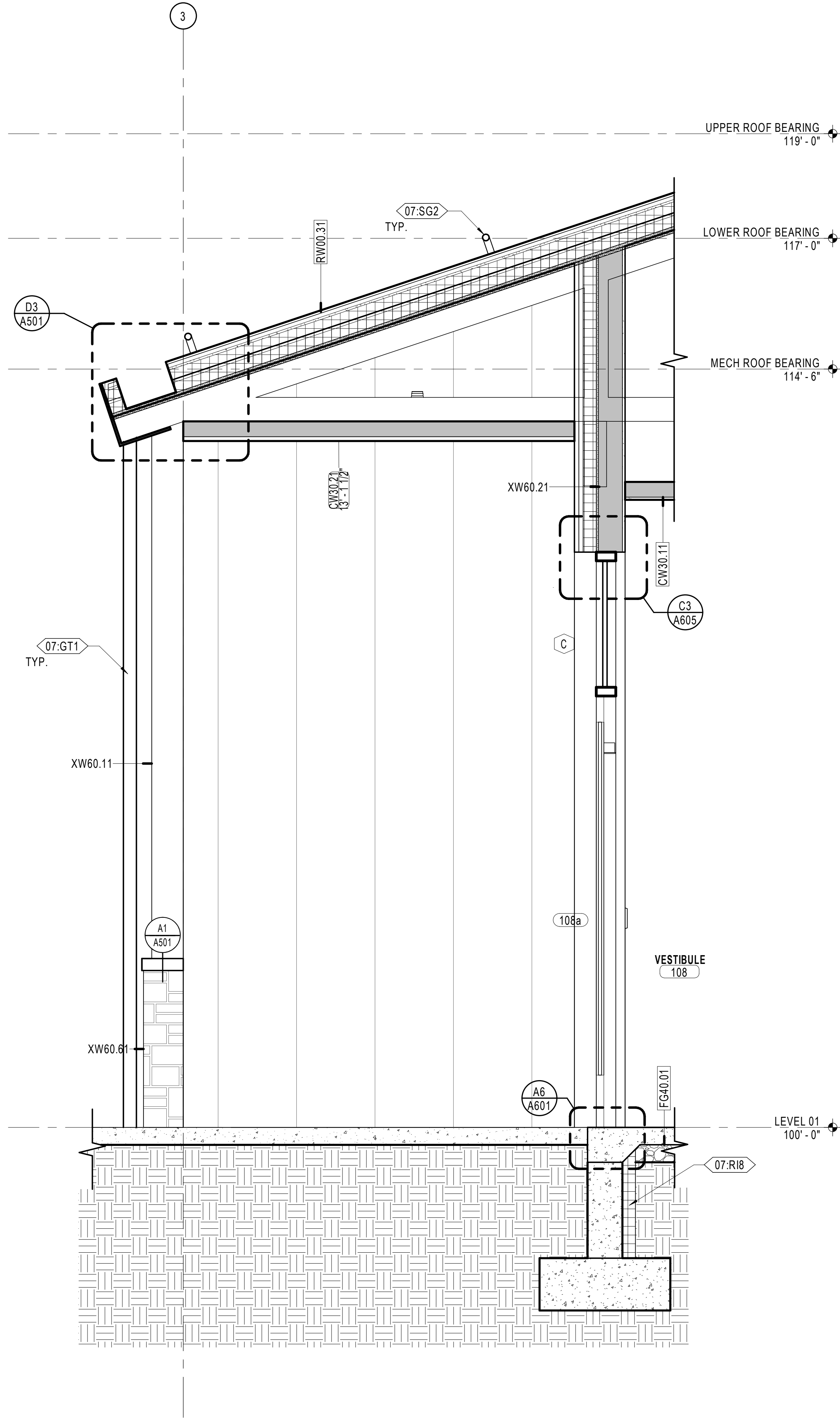
**A2** WALL SECTION (101 NORTH WALL) GRID K/3  
A353 3/4" = 1'-0"



**A3** WALL SECTION (NORTH WALL) GRID J/3  
A353 3/4" = 1'-0"



**A4** WALL SECTION (ENTRANCE) GRID J/3  
A353 3/4" = 1'-0"



GENERAL NOTE - SECTION

- A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
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- C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- D. DO NOT SCALE DRAWINGS.

KEYNOTE LEGEND

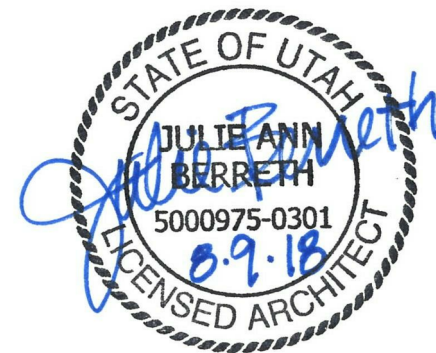
- 07-GT1 PRE-FINISHED CUSTOM ALUMINUM GUTTER AND DOWNSPOUT
- 07-R18 FOUNDATION INSULATION
- 07-SG2 SNOWGUARD ANCHOR TO STRUCTURAL ROOF FRAMING
- A510/SW2 WALL BEYOND



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WALL  
SECTIONS -  
EXT.

A353

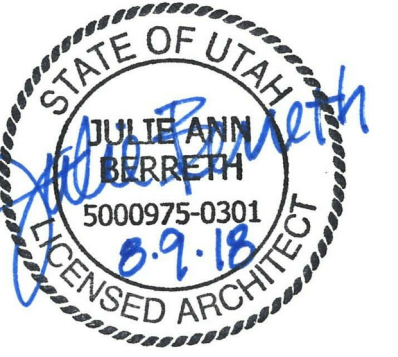




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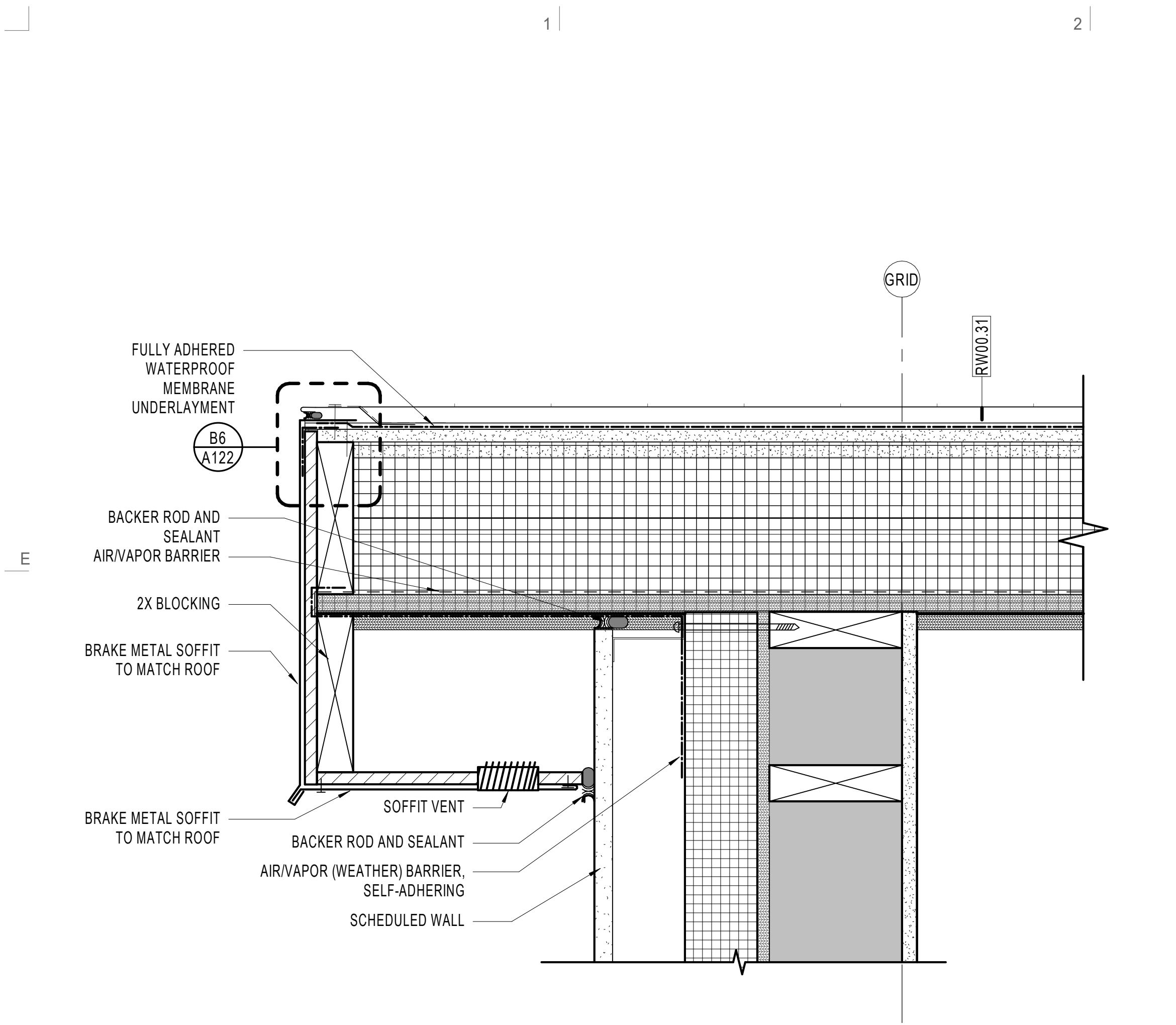
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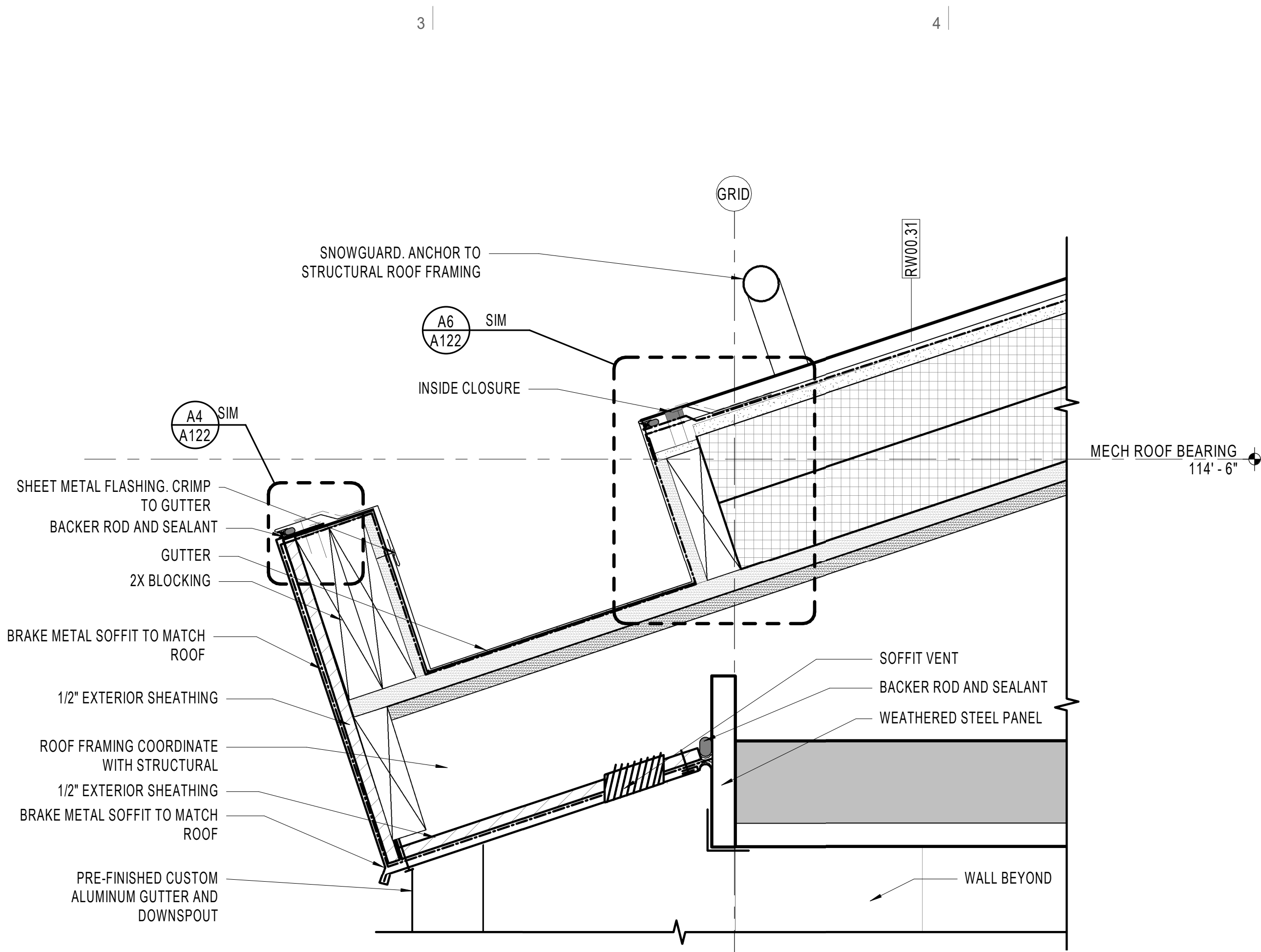
## SECTION & PLAN DETAILS

A501



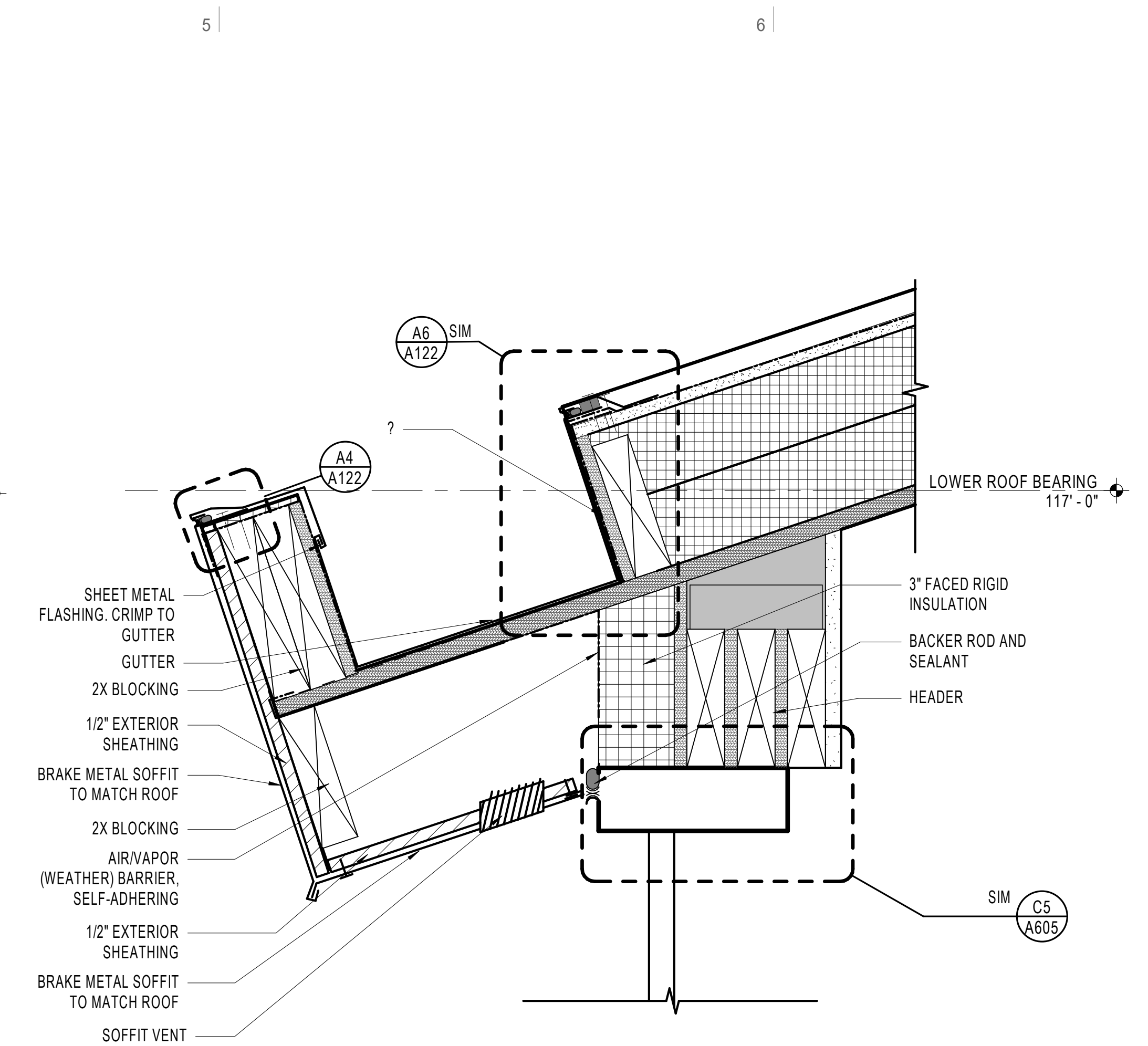
SECTION DETAIL (HIGH ROOF TO WALL - WEST WALL)

D1 113 GRID A/4  
A501 3" = 1'-0"



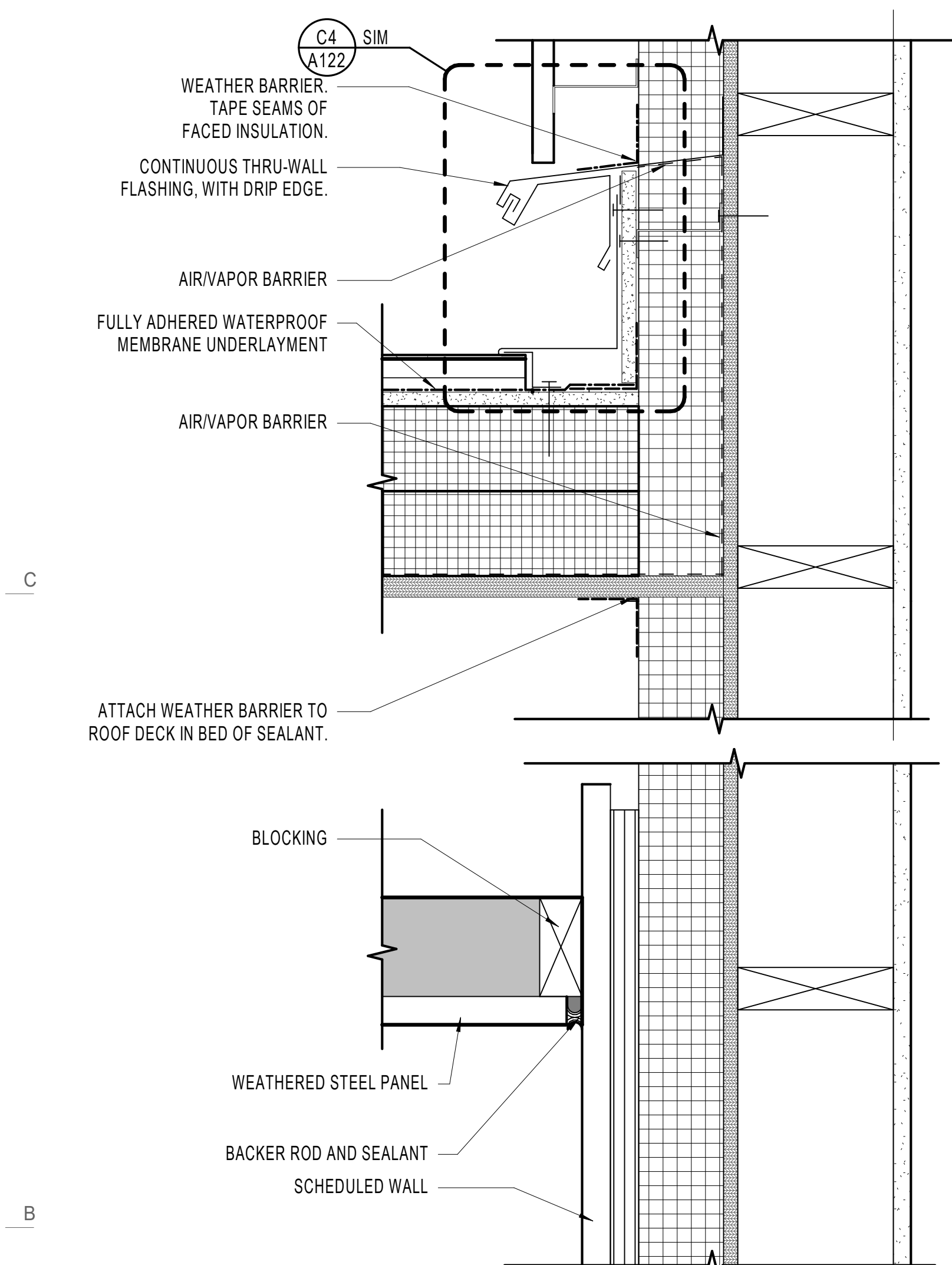
SECTION DETAIL (GUTTER/SNOWGUARDS @

D3 ENTRANCE) GRID J/3  
A501 3" = 1'-0"



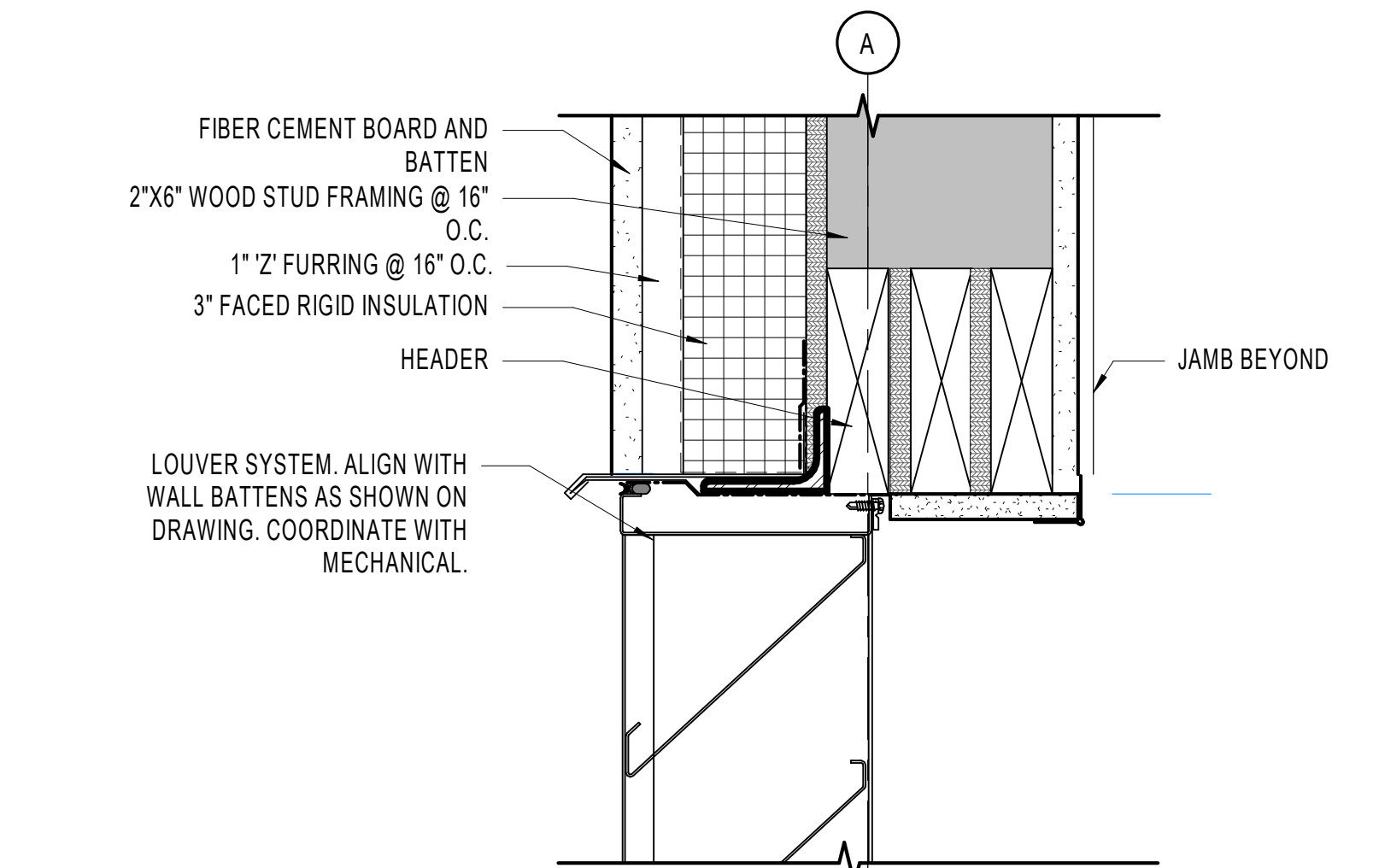
SECTION DETAIL (LOW ROOF EAVE @ NORTH WALL)

D5 GRID E/1  
A501 3" = 1'-0"



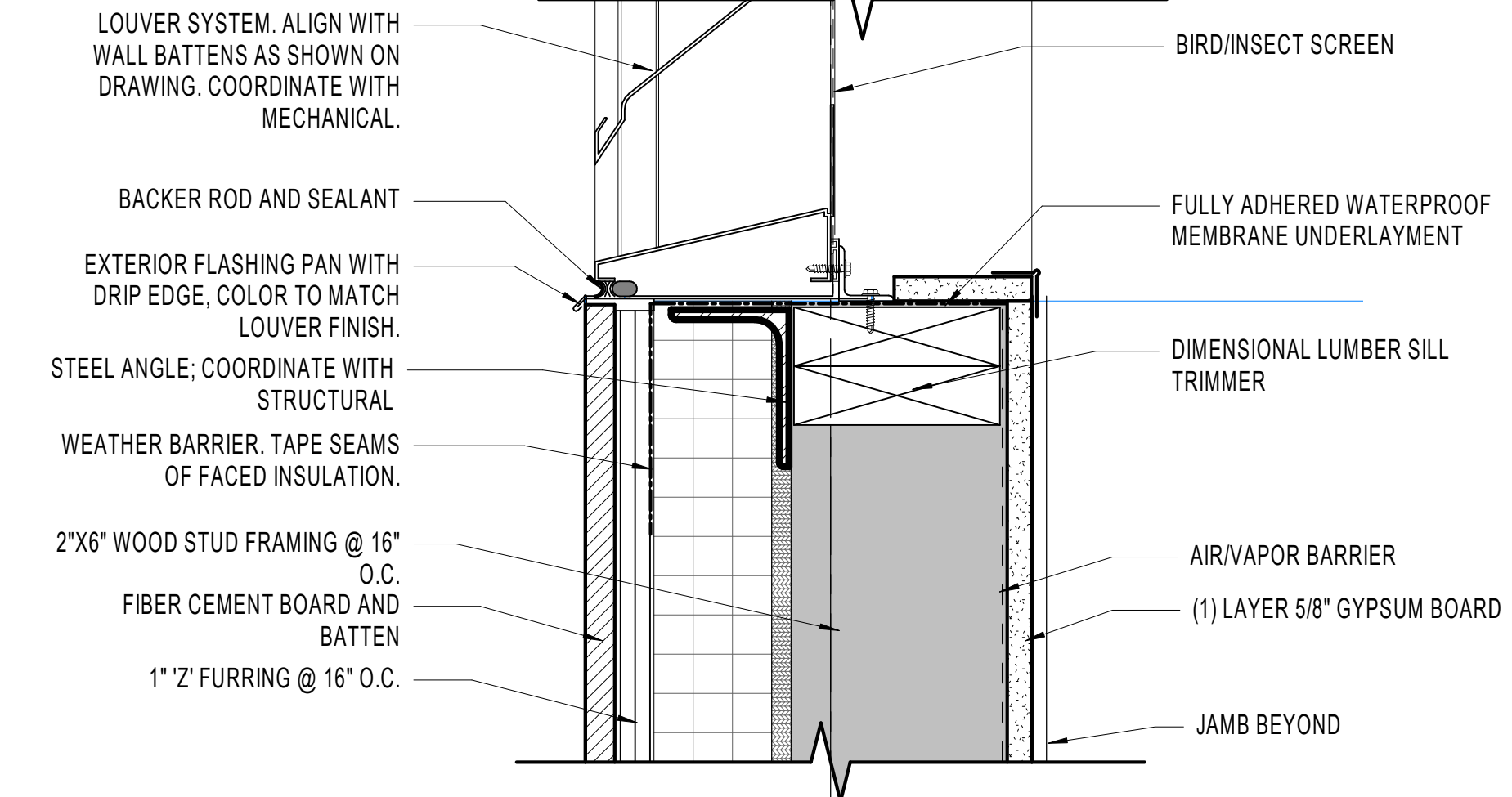
SECTION DETAIL (LOW ROOF TO WALL - EAST WALL)

B1 GRID H/3  
A501 3" = 1'-0"



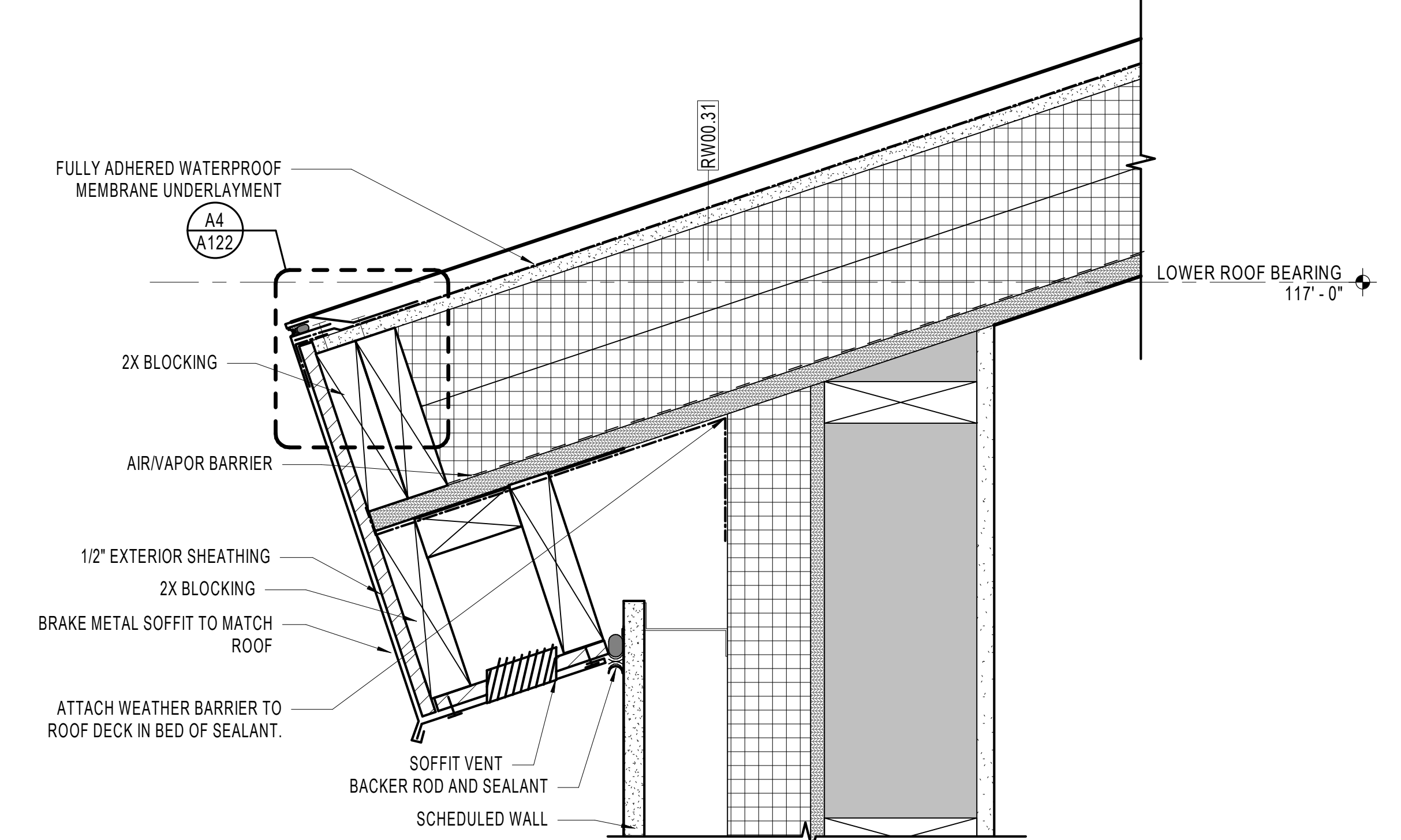
C4 SECTION DETAIL - MECHANICAL LOUVER HEAD

A501 3" = 1'-0"



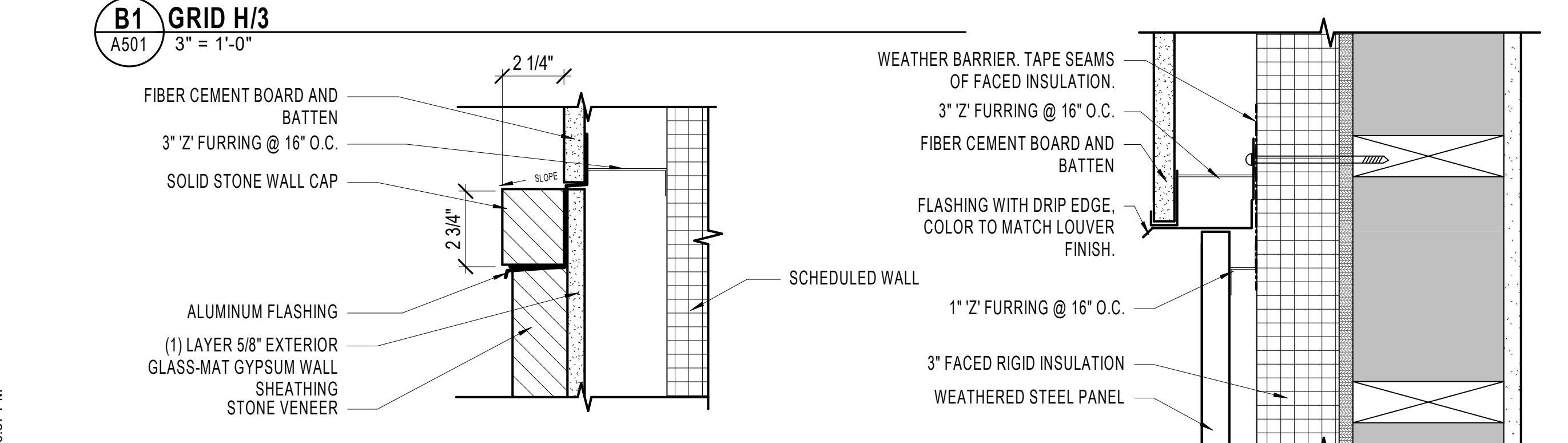
B4 SECTION DETAIL - LOUVER

A501 3" = 1'-0"



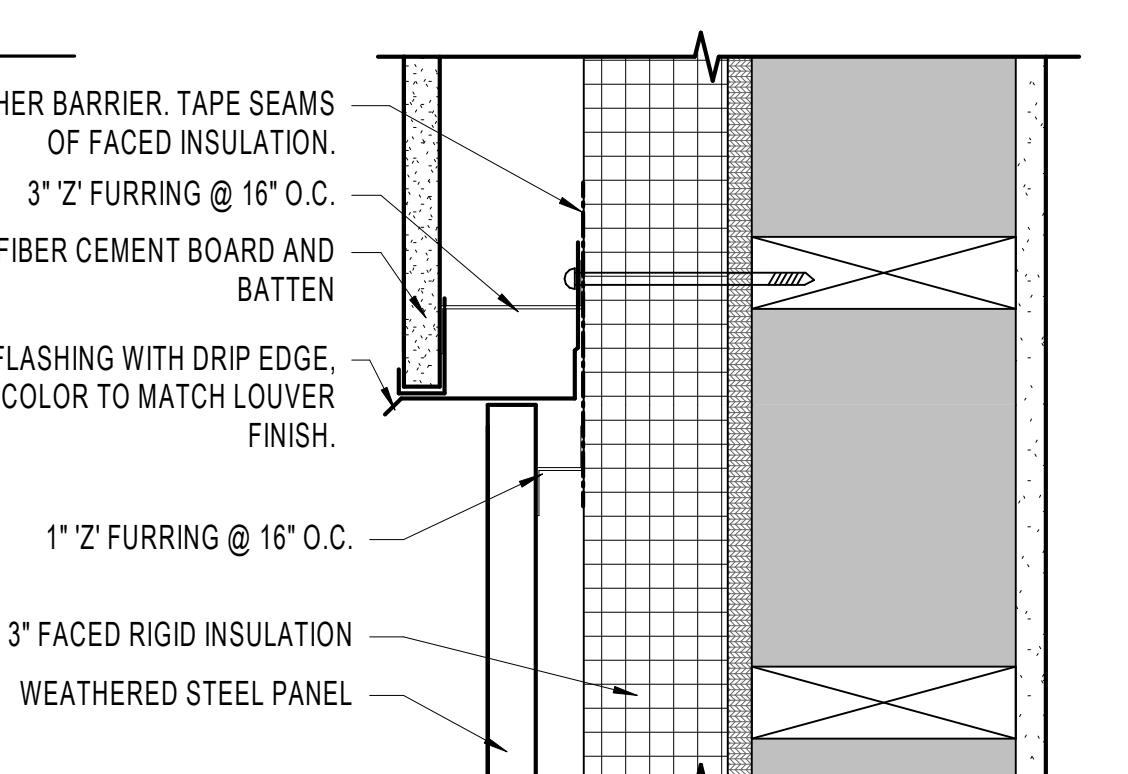
SECTION DETAIL (LOW ROOF EAVE @ SOUTH

B6 CURTAIN WALL) GRID C/5  
A501 3" = 1'-0"



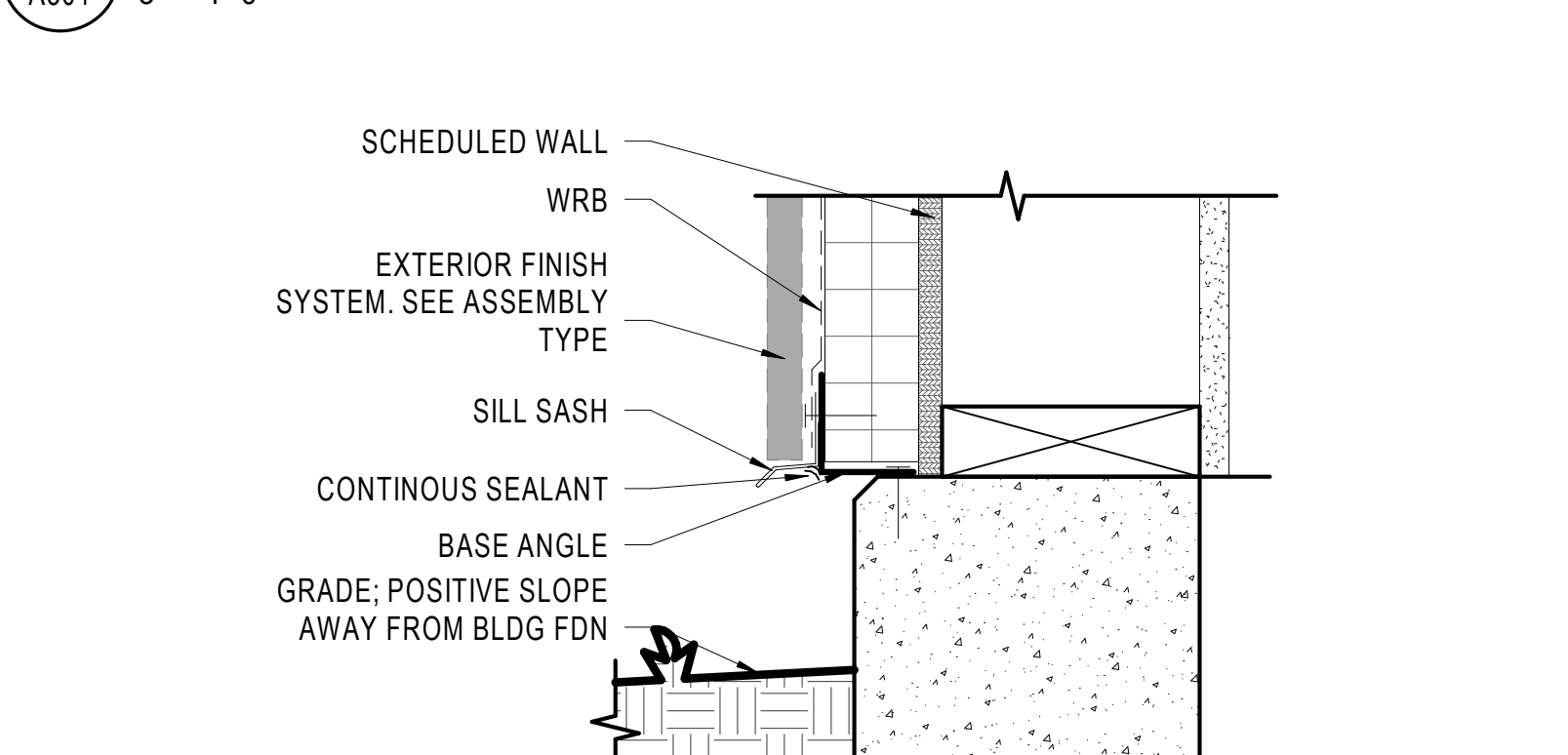
A1 SOLID STONE WALL CAP DETAIL

A501 3" = 1'-0"



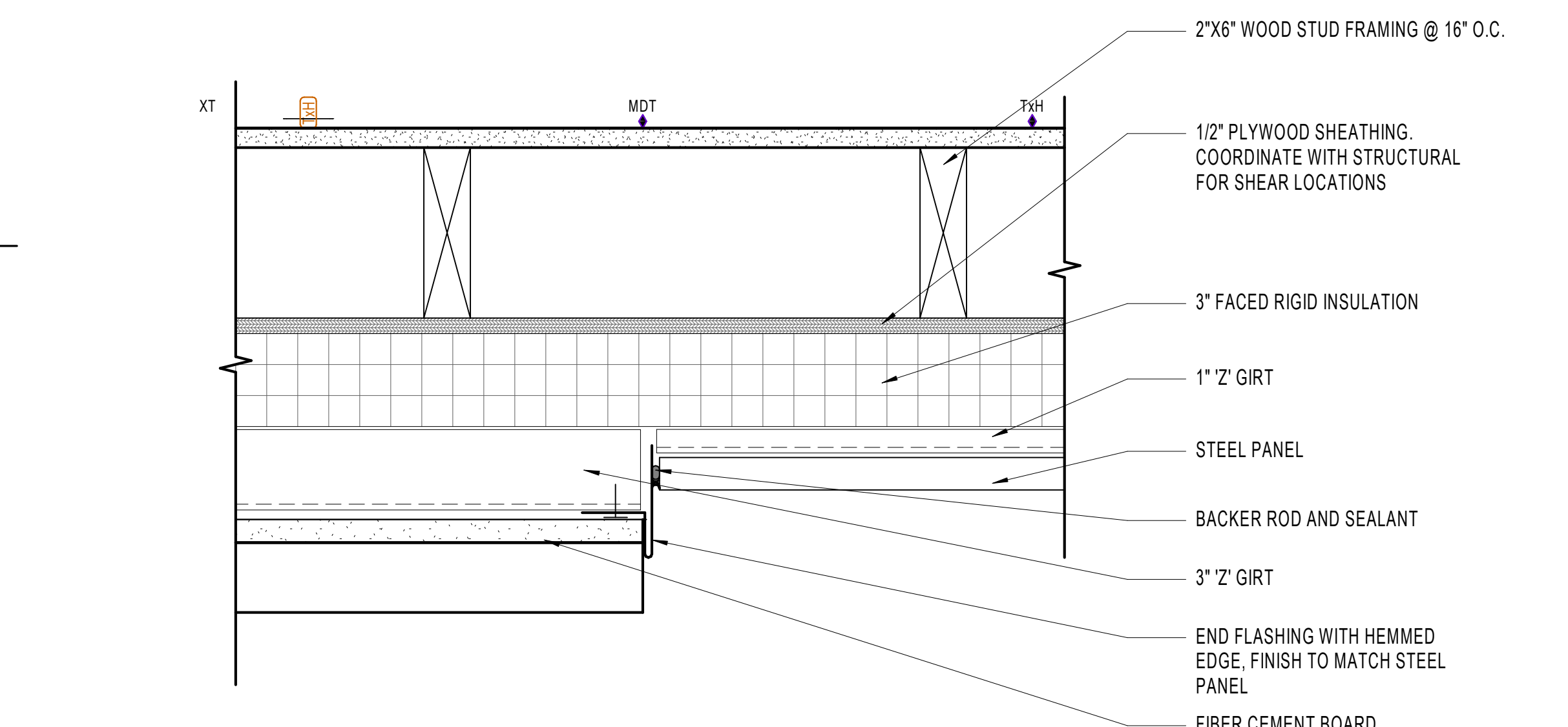
A2 SECTION DETAIL - EXTERIOR MATERIAL TRANSITION

A501 3" = 1'-0"



A4 WALL BASE DETAIL

A501 3" = 1'-0"



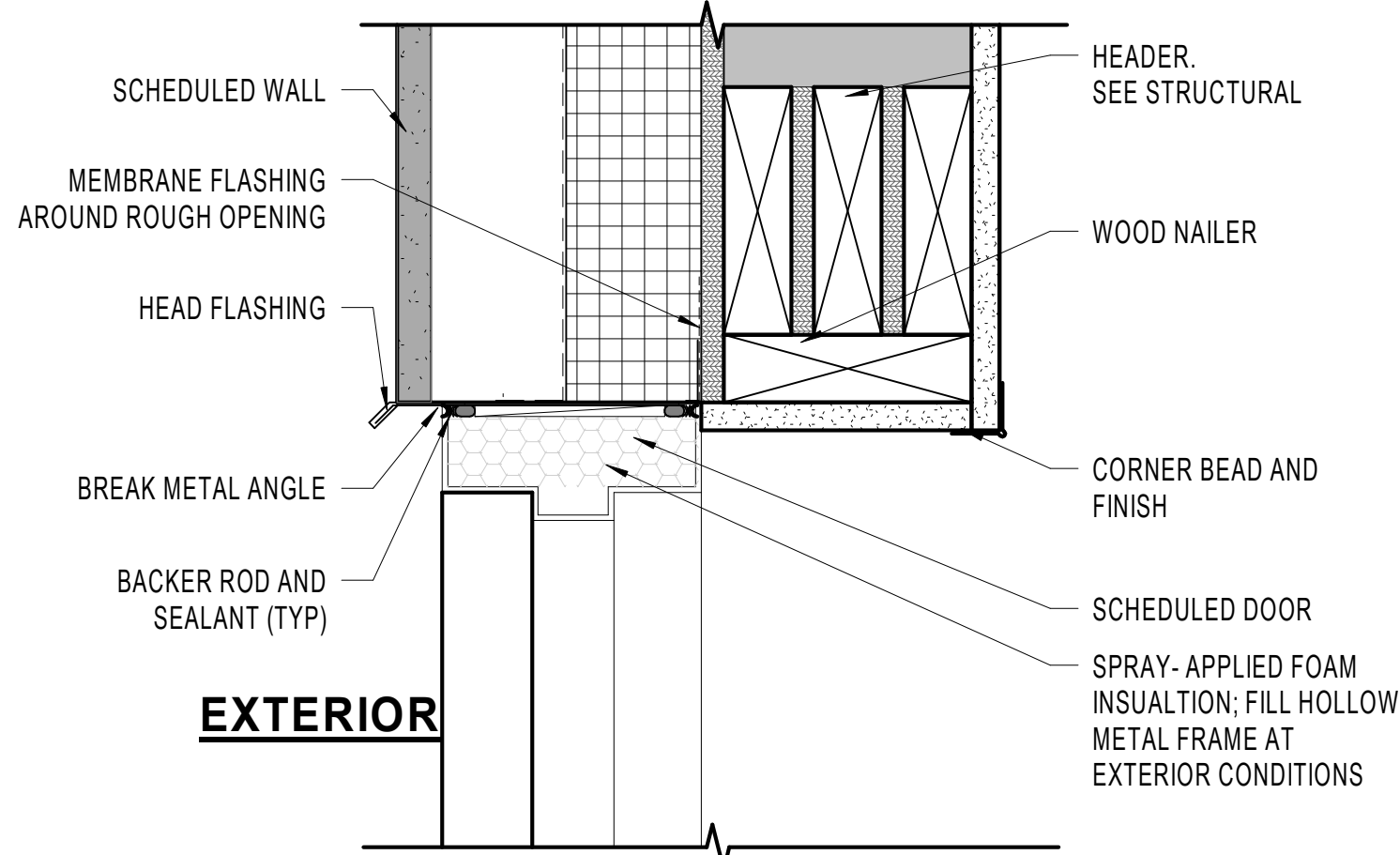
PLAN DETAIL - EXTERIOR WALL MATERIAL

A5 TRANSITION  
A501 3" = 1'-0"

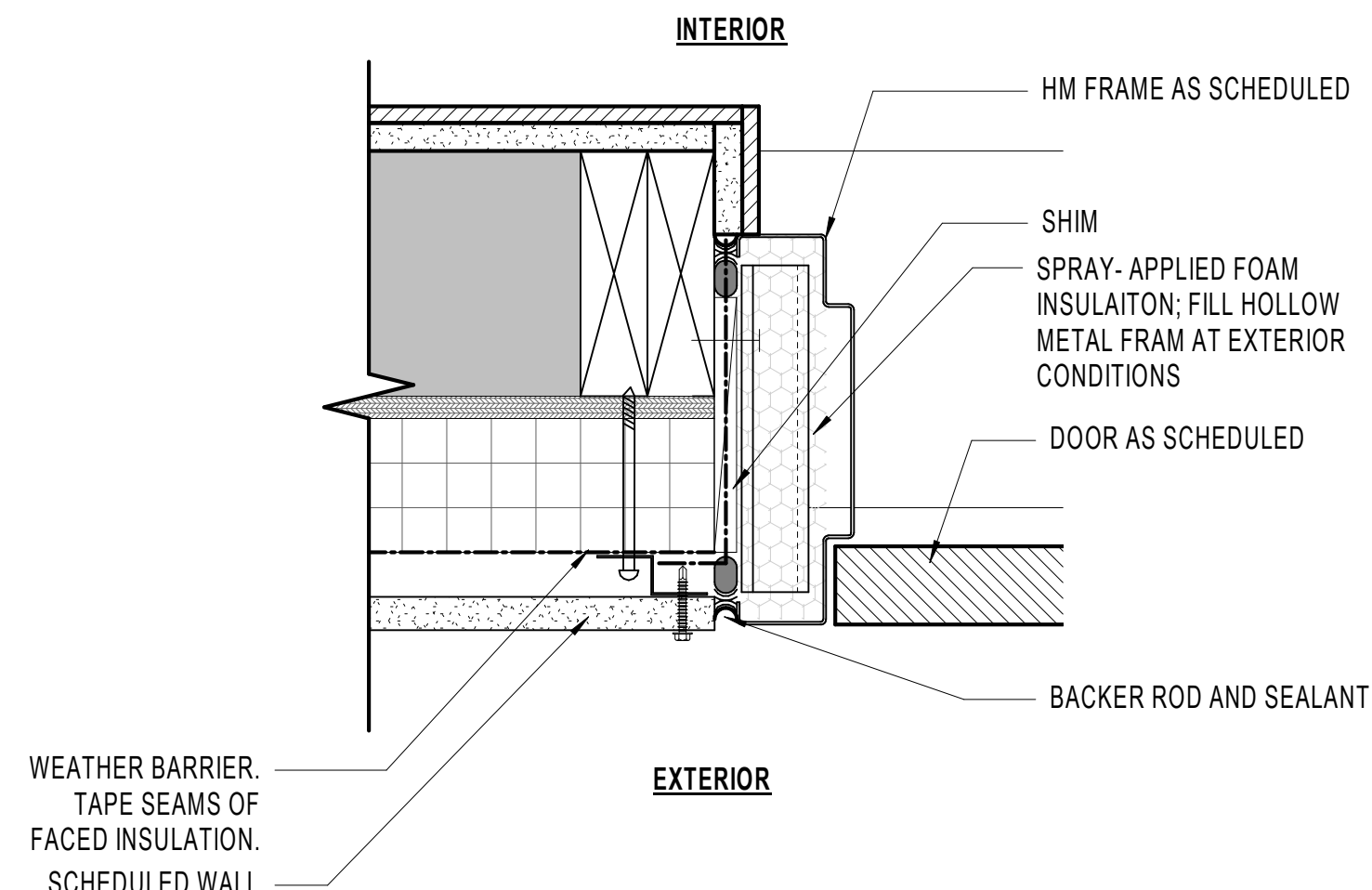
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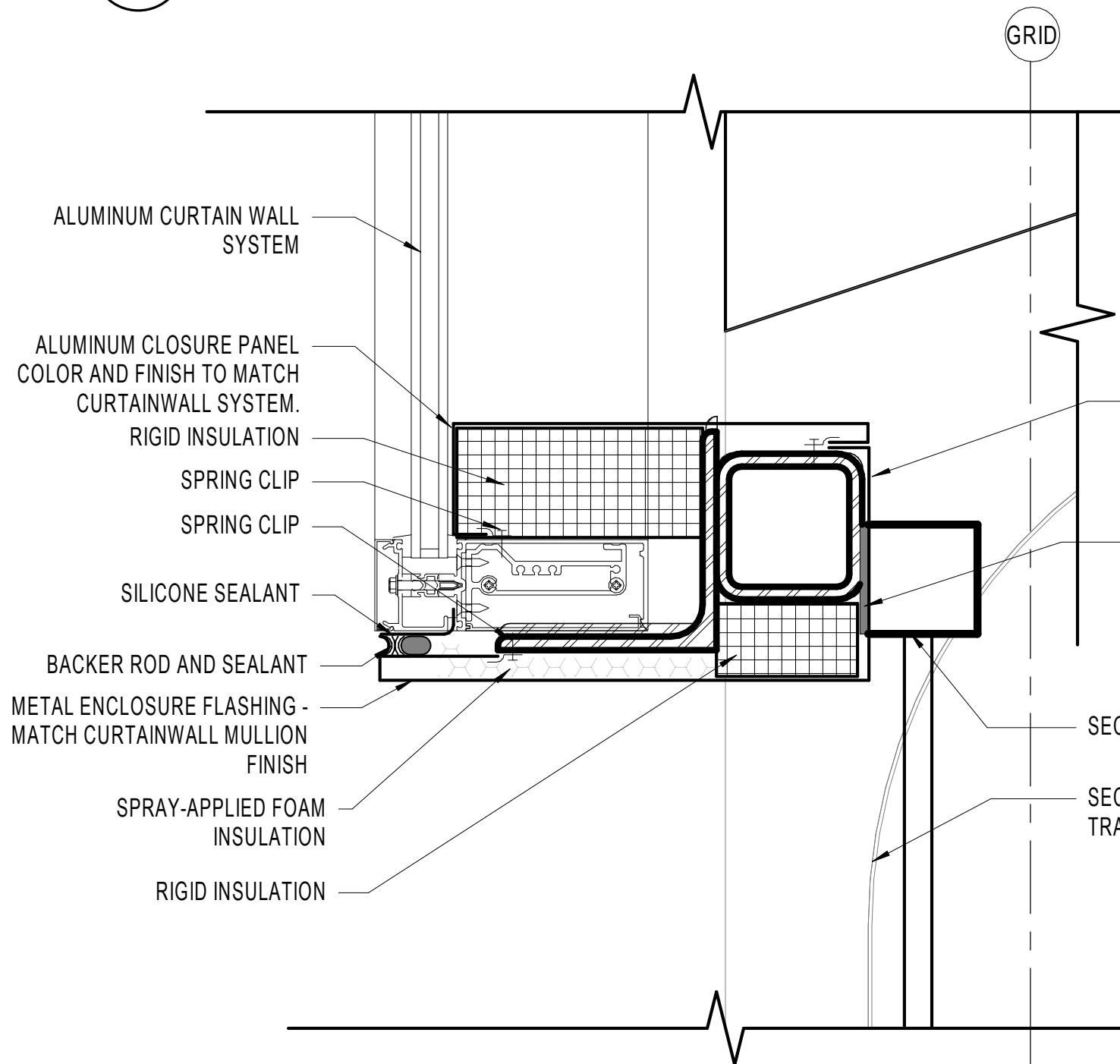
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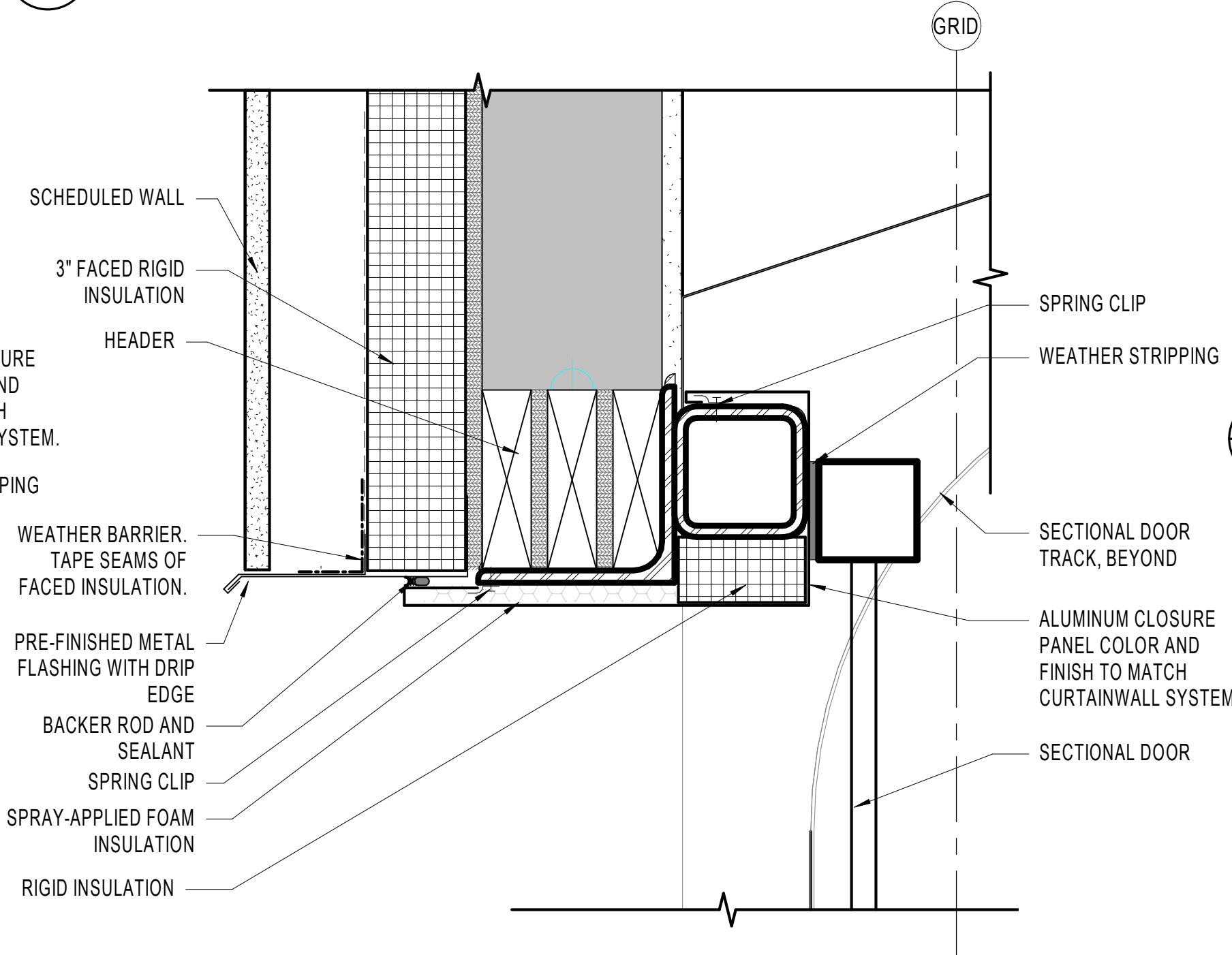
**D1 SECTION DETAIL - EXTERIOR DOOR HEADER**  
A601 3" = 1'-0"



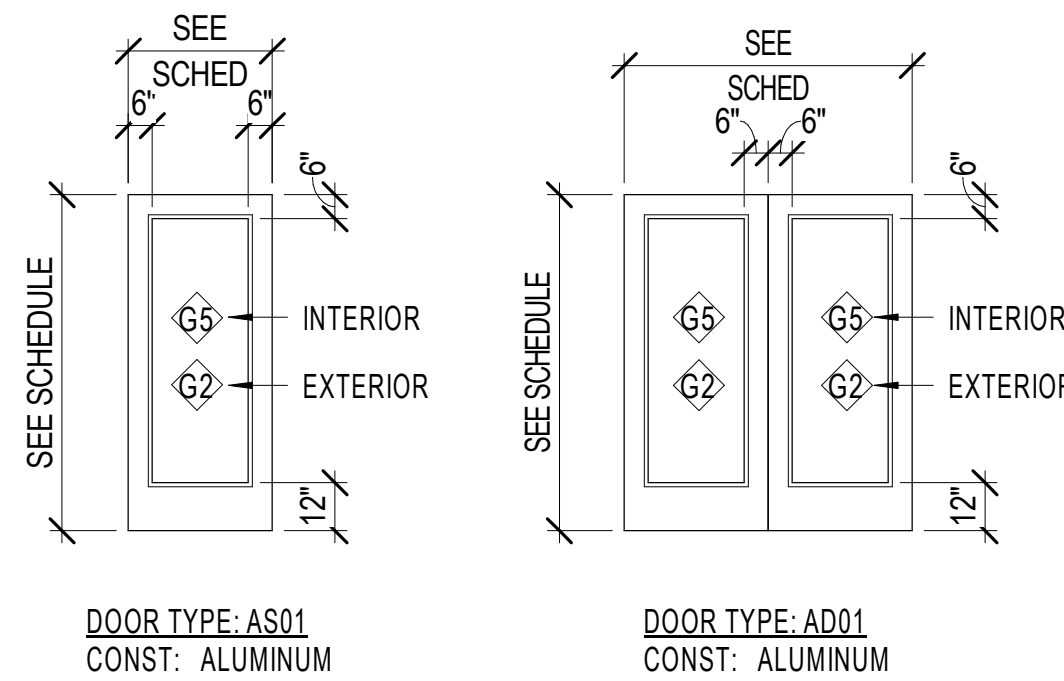
**D2 PLAN DETAIL - EXTERIOR HM DOOR JAMB**  
A601 3" = 1'-0"



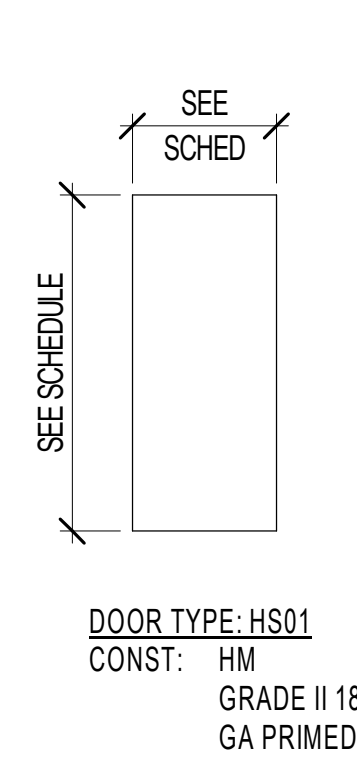
**C1 SECTION DETAIL - HEADER @ SECTIONAL DOOR OPENING CURTAIN WALL**  
A601 3" = 1'-0"



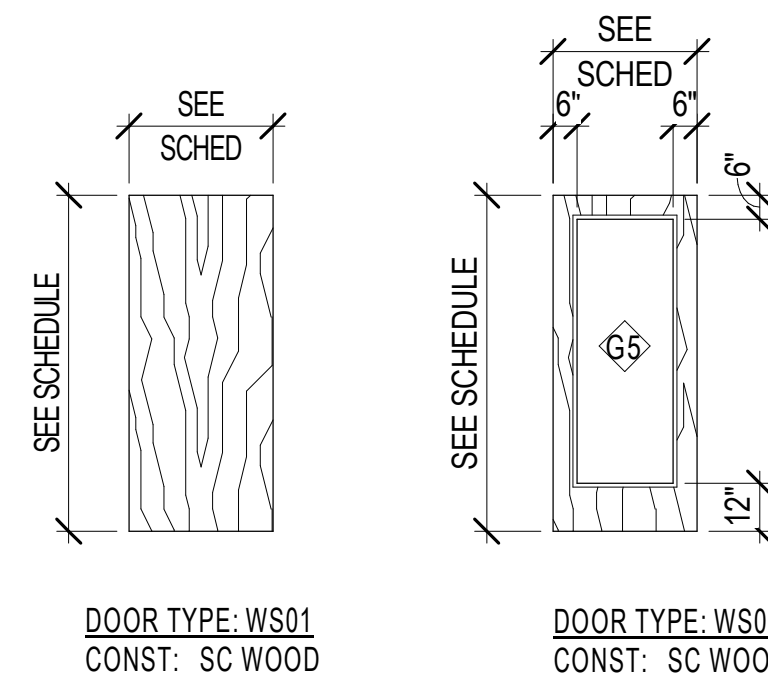
**C2 SECTIONAL DOOR HEADER (SOUTH WALL)**  
A601 3" = 1'-0"



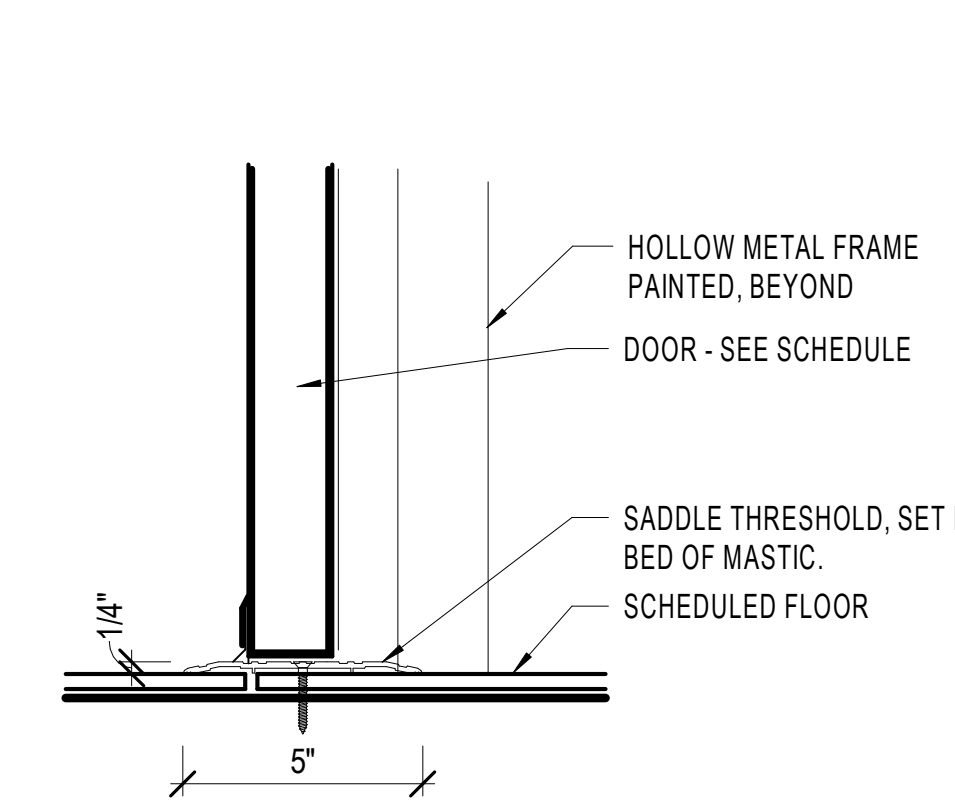
**B3 DOOR TYPES - ALUMINUM**  
A601 1/4" = 1'-0"



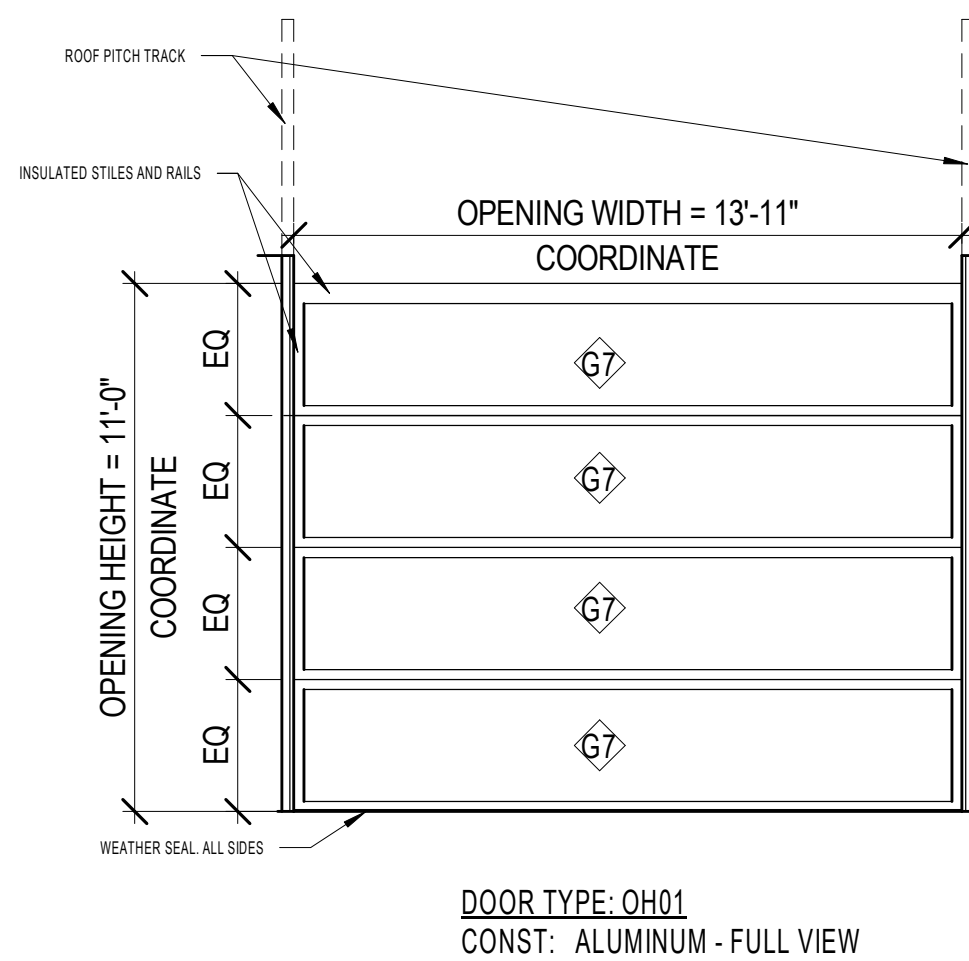
**B4 DOOR TYPES - HOLLOW METAL**  
A601 1/4" = 1'-0"



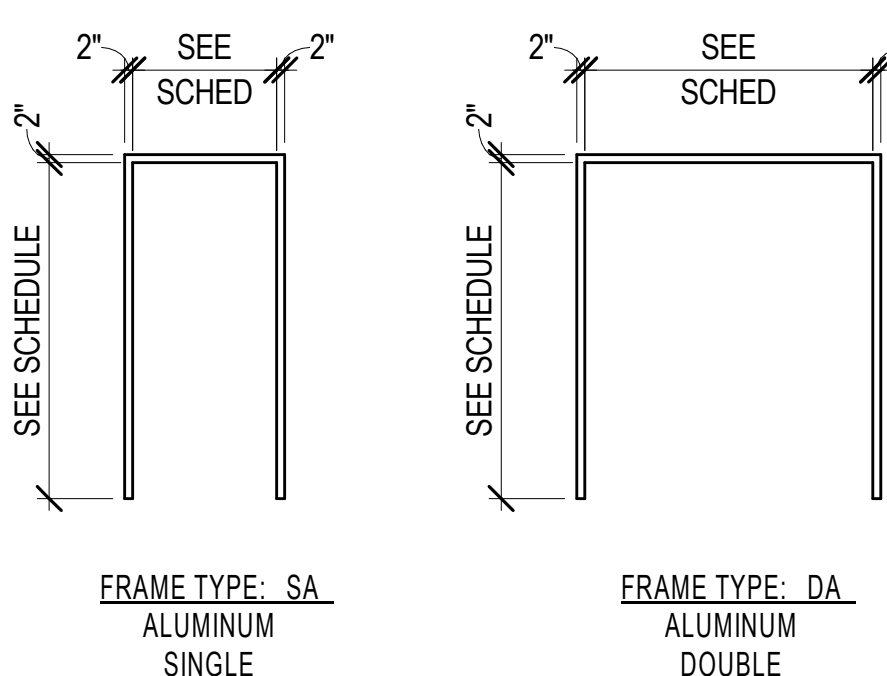
**B5 DOOR TYPES - WOOD**  
A601 1/4" = 1'-0"



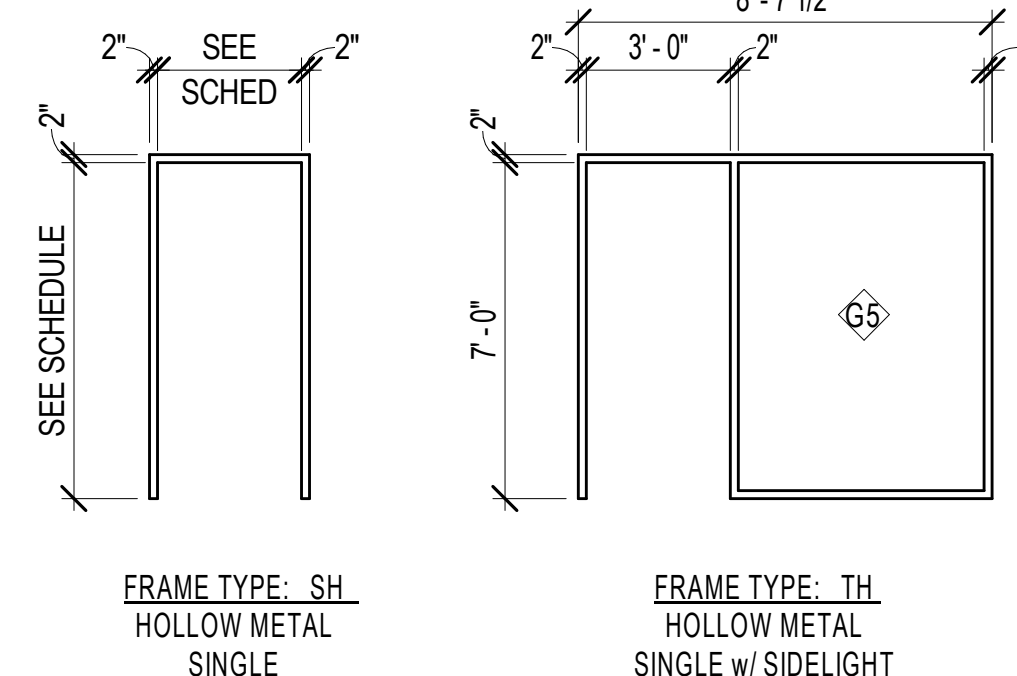
**B6 THRESHOLD DETAIL - SADDLE**  
A601 3" = 1'-0"



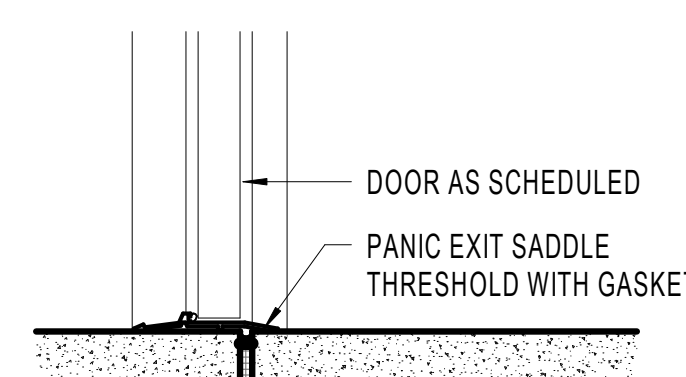
**A2 DOOR TYPES - SECTIONAL DOOR**  
A601 1/4" = 1'-0"



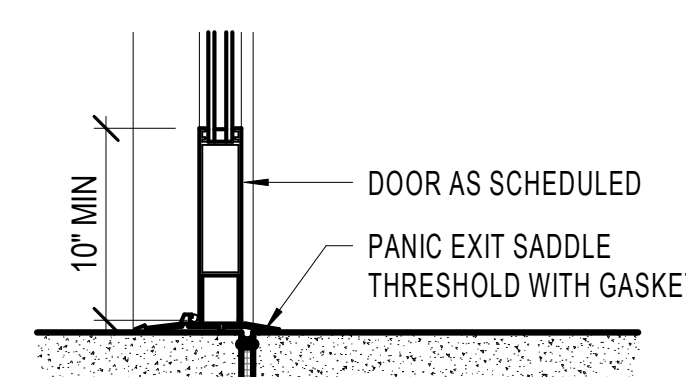
**A3 FRAME TYPES - ALUMINUM**  
A601 1/4" = 1'-0"



**A4 FRAME TYPES - HOLLOW METAL**  
A601 1/4" = 1'-0"



**A5 SILL DETAIL - EXTERIOR HM DOOR**  
A601 1 1/2" = 1'-0"



**A6 SILL DETAIL - STOREFRONT DOOR**  
A601 1 1/2" = 1'-0"

DOOR SCHEDULE													
NUMBER	DOOR			FINISH	FRAME					FIRE RATING	HARDWARE GROUP	NOTES	NUMBER
	WIDTH	HEIGHT	TYPE		HEAD	JAMB	THRES	TYPE	FINISH				
101	3' - 0"	7' - 0"	WS02	WD	D4/A601	C5/A601	D6/A601	TH	PT	-	205		101
102a	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	-	SH	PT	-	204		102a
102b	3' - 0"	7' - 0"	HS01	PX	D1/A601	D2/A601	A5/A601	SH	PX	-	103		102b
104	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	D6/A601	SH	PT	-	202		104
105	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	C6/A601	SH	PT	-	201		105
105a	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	-	SH	PT	-	206		105a
106	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	C6/A601	SH	PT	-	201		106
106a	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	-	SH	PT	-	206		106a
108a	6' - 0"	8' - 3"	AD01	AL	C3/A605	C5/A605	A6/A601	DA	AL	-	AS-100		108a
108b	6' - 0"	7' - 0"	AD01	AL	C1/A605	C6/A601	C6/A601	DA	AL	-	AS-101		108b
109a	6' - 0"	8' - 3"	AD01	AL	C3/A605	C5/A605	A6/A601	DA	AL	-	AS-100		109a
109b	6' - 0"	7' - 0"	AD01	AL	C1/A605	C6/A601	C6/A601	DA	AL	-	AS-101		109b
110	3' - 0"	7' - 0"	HS01	PX	D1/A601	D2/A601	A5/A601	SH	PX	-	101		110
111a	4' - 0"	7' - 0"	HS01	PX	D1/A601	D2/A601	A5/A601	SH	PT	-	104		111a
111b	13' - 11"	11' - 0"	OH01	PF	C1/A601	D5/A701	-	-	PF	-	OHD-100		111b
111c	13' - 11"	11' - 0"	OH01	PF	C1/A601	D5/A701	-	-	PF	-	OHD-100		111c
111d	13' - 11"	11' - 0"	OH01	PF	C2/A601	D5/A701	-	-	PF	-	OHD-100		111d
111e	13' - 11"	11' - 0"	OH01	PF	C2/A601	D5/A701	-	-	PF	-	OHD-100		111e
112	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	C6/A601	SH	PT	-	202		112
113a	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	C6/A601	SH	PT	-	101	INSULATED	113a
113b	3' - 0"	7' - 0"	HS01	PX	D1/A601	D2/A601	A5/A601	SH	PX	-	100		113b
113c	3' - 0"	7' - 0"	HS01	PX	D1/A601	D2/A601	A5/A601	SH	PX	-	101		113c
115	3' - 0"	7' - 0"	WS01	WD	D4/A601	C4/A601	-	SH	PT	-	202		115

GENERAL NOTE - WINDOW TYPES

- FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES.
- PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS.
- DOOR LITE DIMENSIONS SHOWN REPRESENT THE FINISHED CLEAR GLAZED OPENING BETWEEN TRIM KIT ELEMENTS
- STOREFRONT SYSTEMS UNLESS NOTED OTHERWISE.

DOOR FINISH LEGEND

AL	ALUMINUM, ANODIZED, COLOR TO BE SELECTED
PT	PAIN, REFER TO FINISH DRAWINGS
PX	PAINT, EXTERIOR, COLOR TO BE SELECTED
PF	PRE-FINISHED BY MANUFACTURER
WD	WOOD, STAINED, COLOR TO BE SELECTED
-	

DOOR SCHEDULE NOTES

- DOOR DETAILS BY ULTRAWALL PROVIDER
- EXISTING DOOR TO REMAIN - PROVIDE NEW HARDWARE

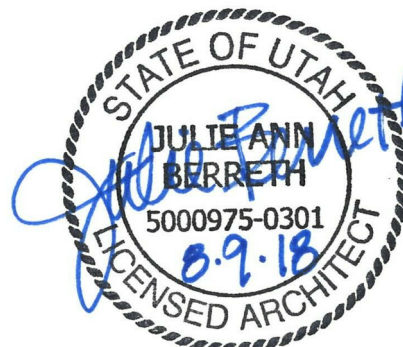
GLAZING SCHEDULE

G1	1" INSULATED GLASS UNIT, CLEAR
G2	1" INSULATED GLASS UNIT, TEMPERED, CLEAR
G3	1" INSULATED GLASS UNIT, TEMPERED, TRANSLUCENT (WINDOW FILM)
G4	1/4" CLEAR
G5	1/4" TEMPERED, CLEAR
G6	SPANDREL
G7	1/2" DOUBLE STRENGTH INSULATING GLASS



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DOOR SCHEDULE AND TYPES

A601



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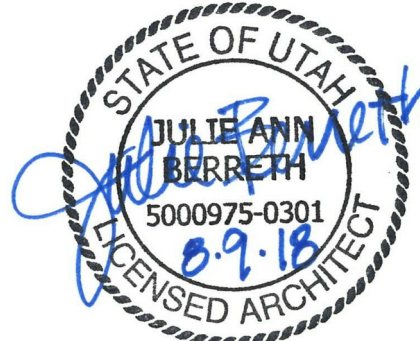
GENERAL NOTE - WINDOW TYPES

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES.
- B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS.
- C. DOOR LITE DIMENSIONS SHOWN REPRESENT THE FINISHED CLEAR GLAZED OPENING BETWEEN TRIM KIT ELEMENTS
- D. STOREFRONT SYSTEMS UNLESS NOTED OTHERWISE.

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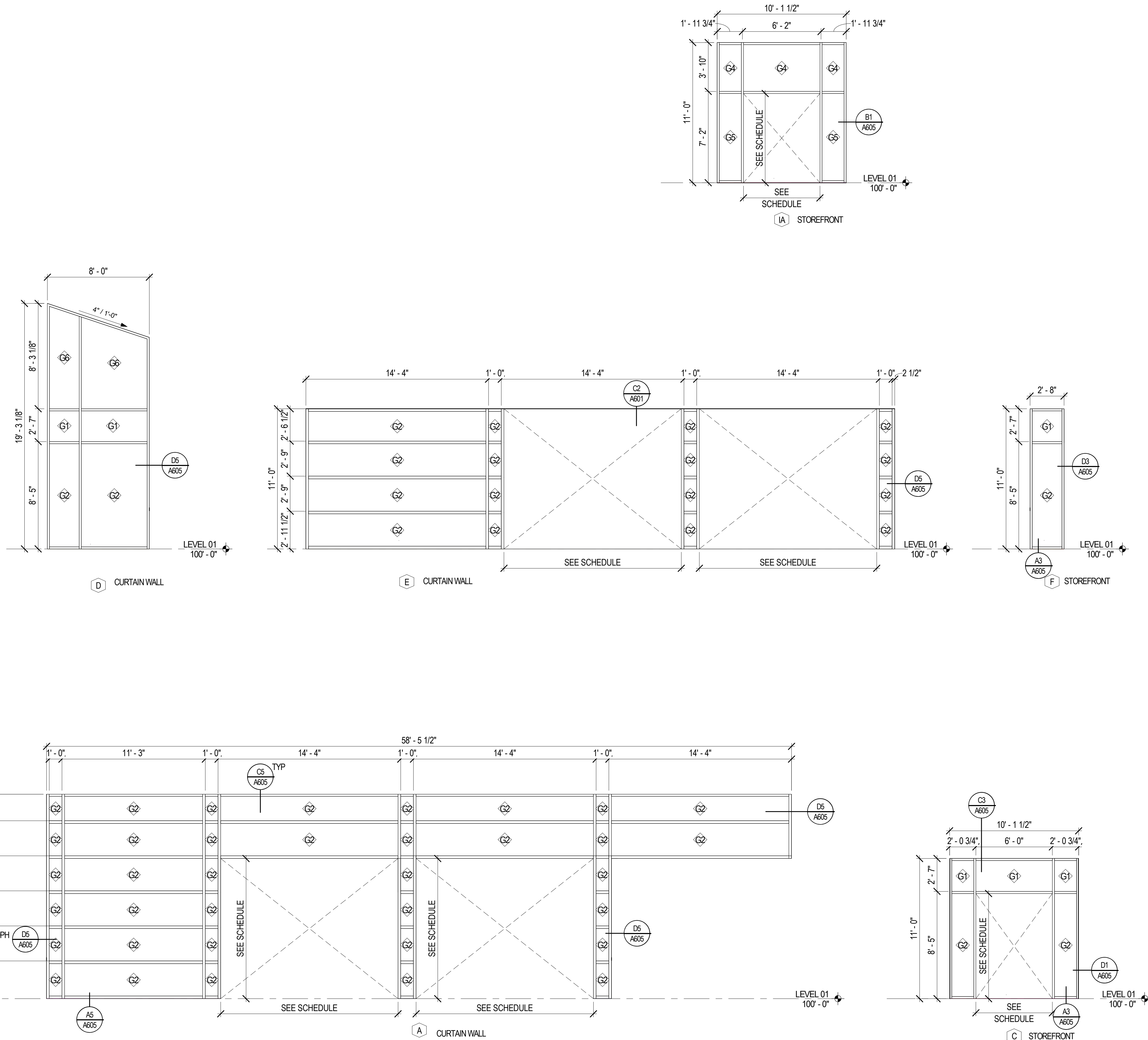
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GLAZING SCHEDULE	
G1	1" INSULATED GLASS UNIT, CLEAR
G2	1" INSULATED GLASS UNIT, TEMPERED, CLEAR
G3	1" INSULATED GLASS UNIT, TEMPERED, TRANSLUCENT (WINDOW FILM)
G4	1/4" CLEAR
G5	1/4" TEMPERED, CLEAR
G6	SPANDREL
G7	1/2" DOUBLE STRENGTH INSULATING GLASS



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WINDOW TYPES

A602



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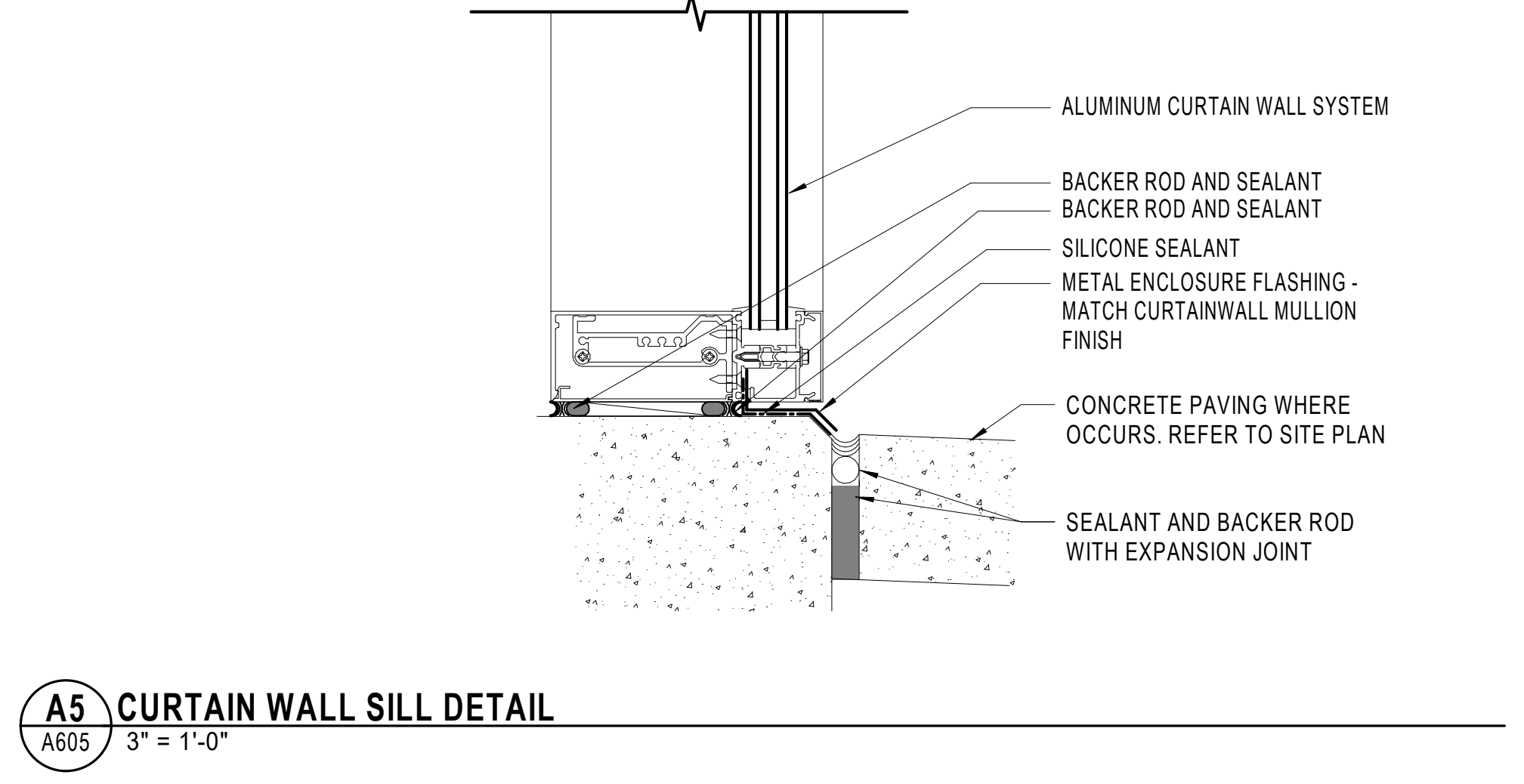
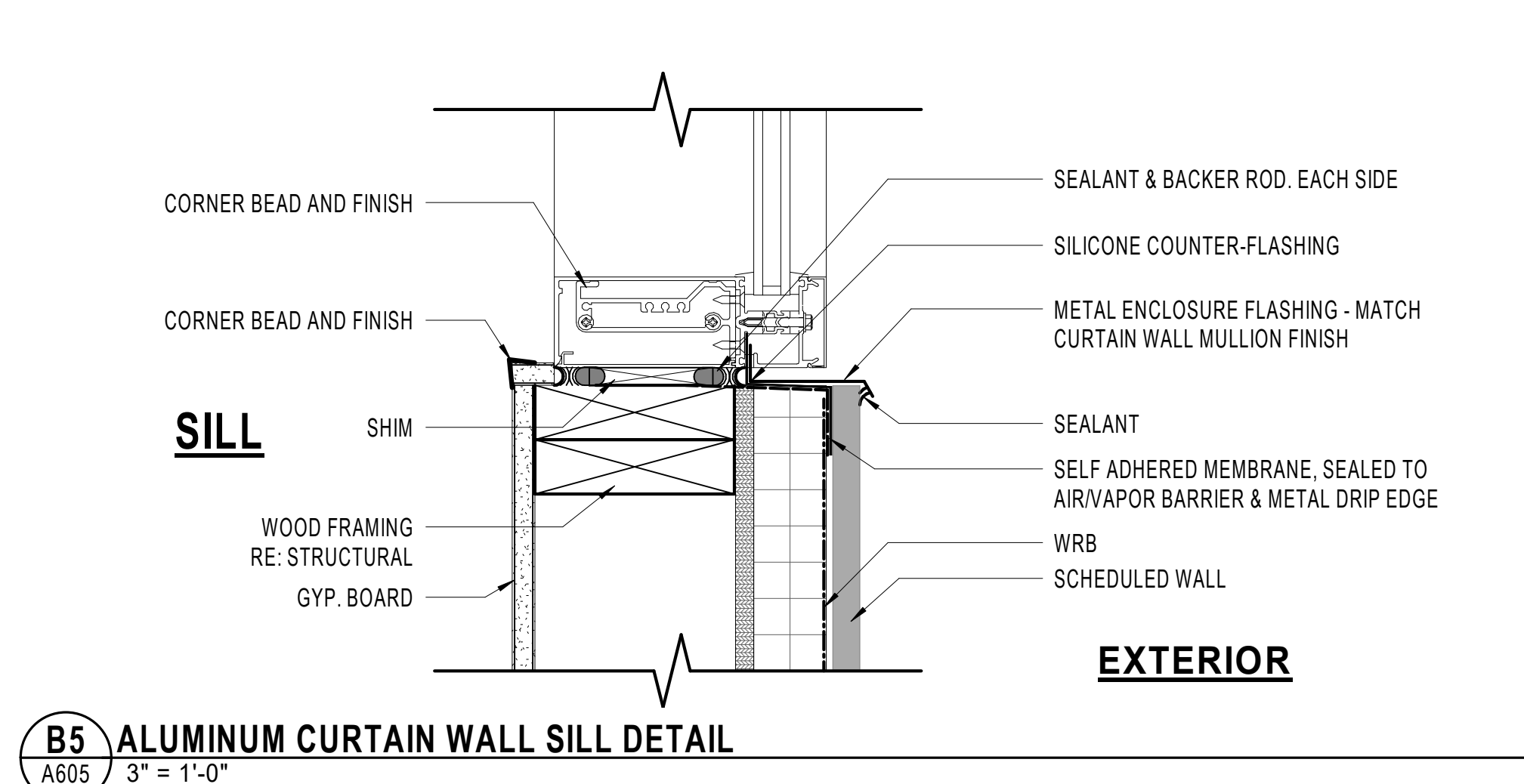
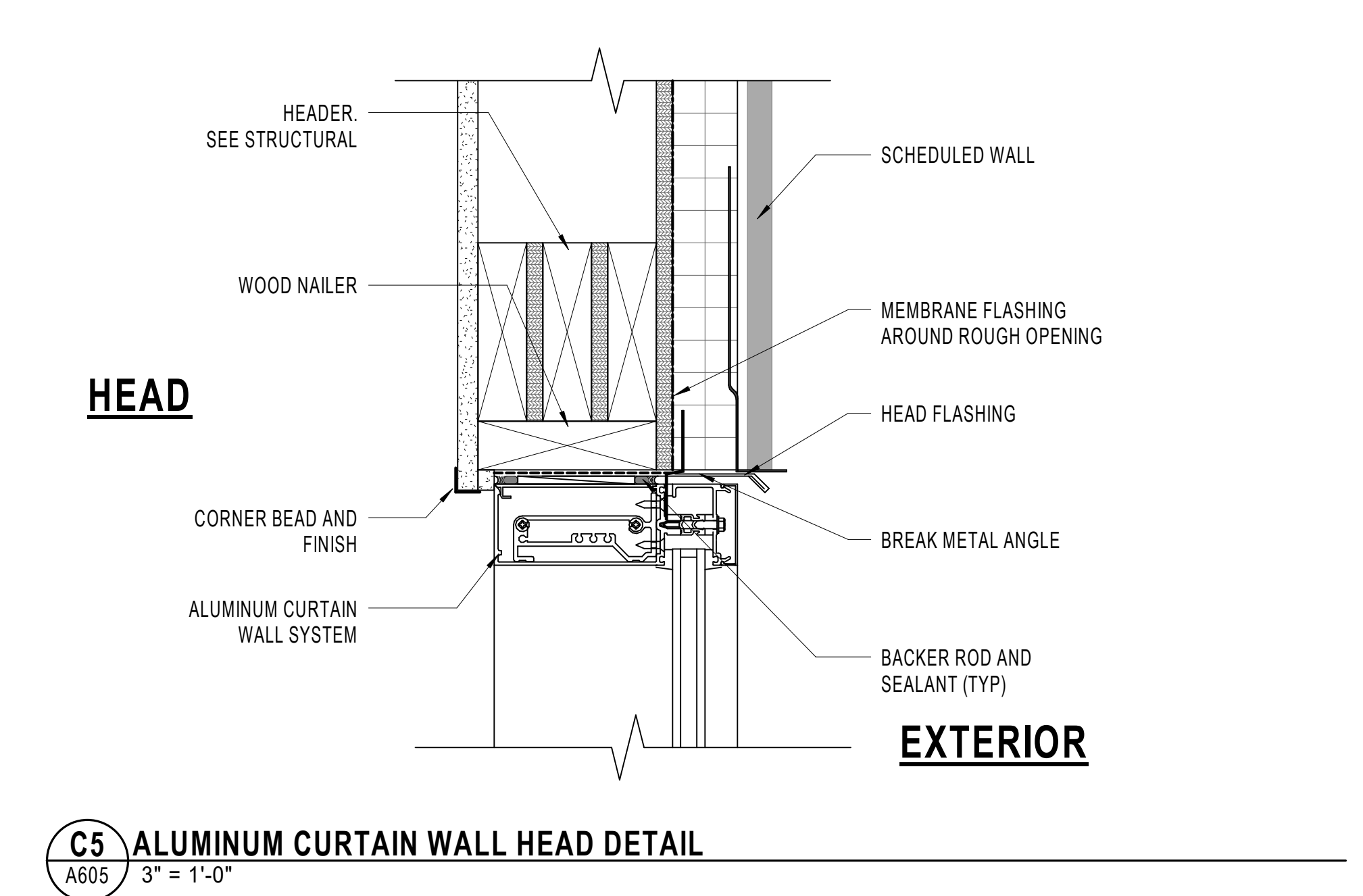
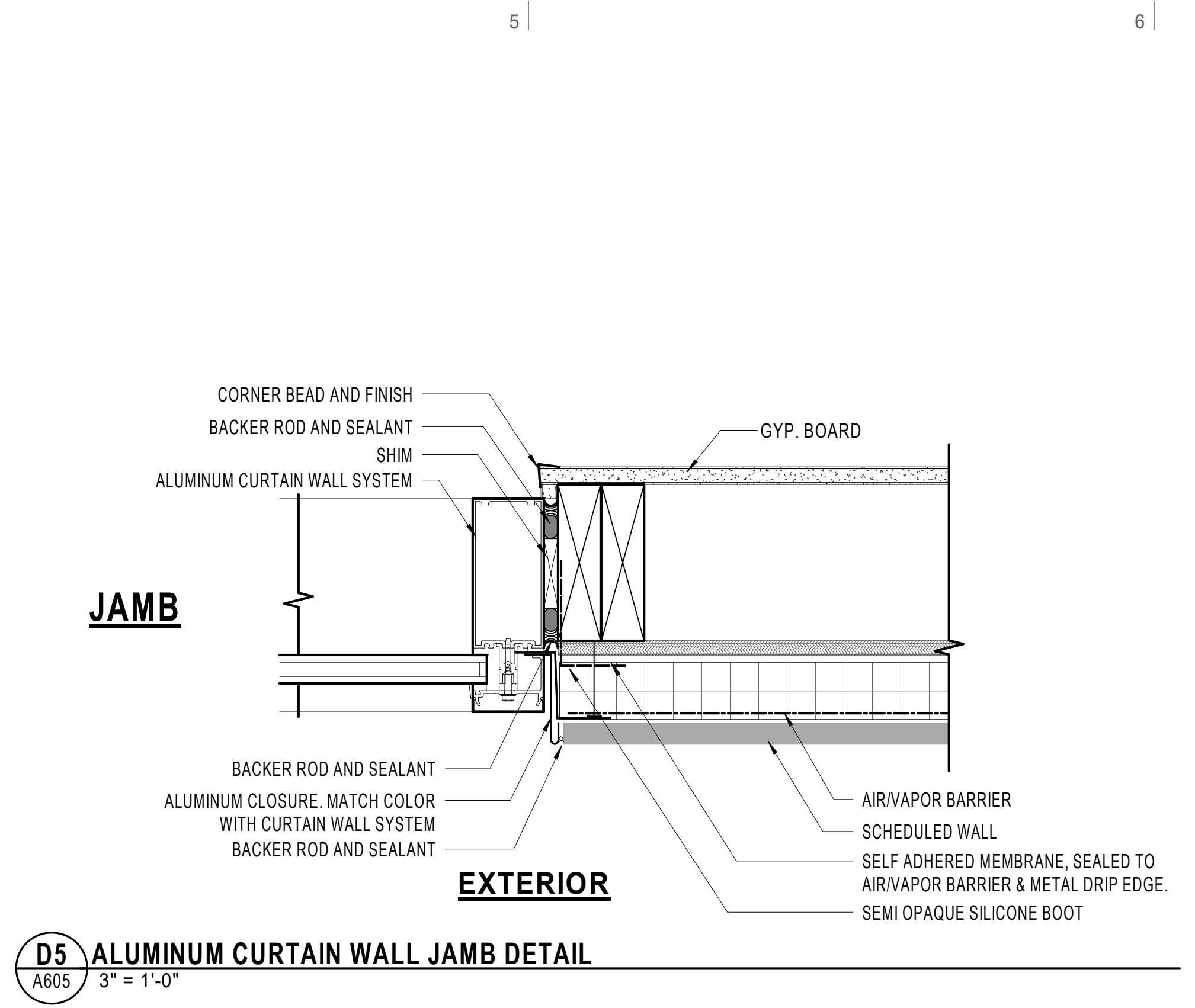
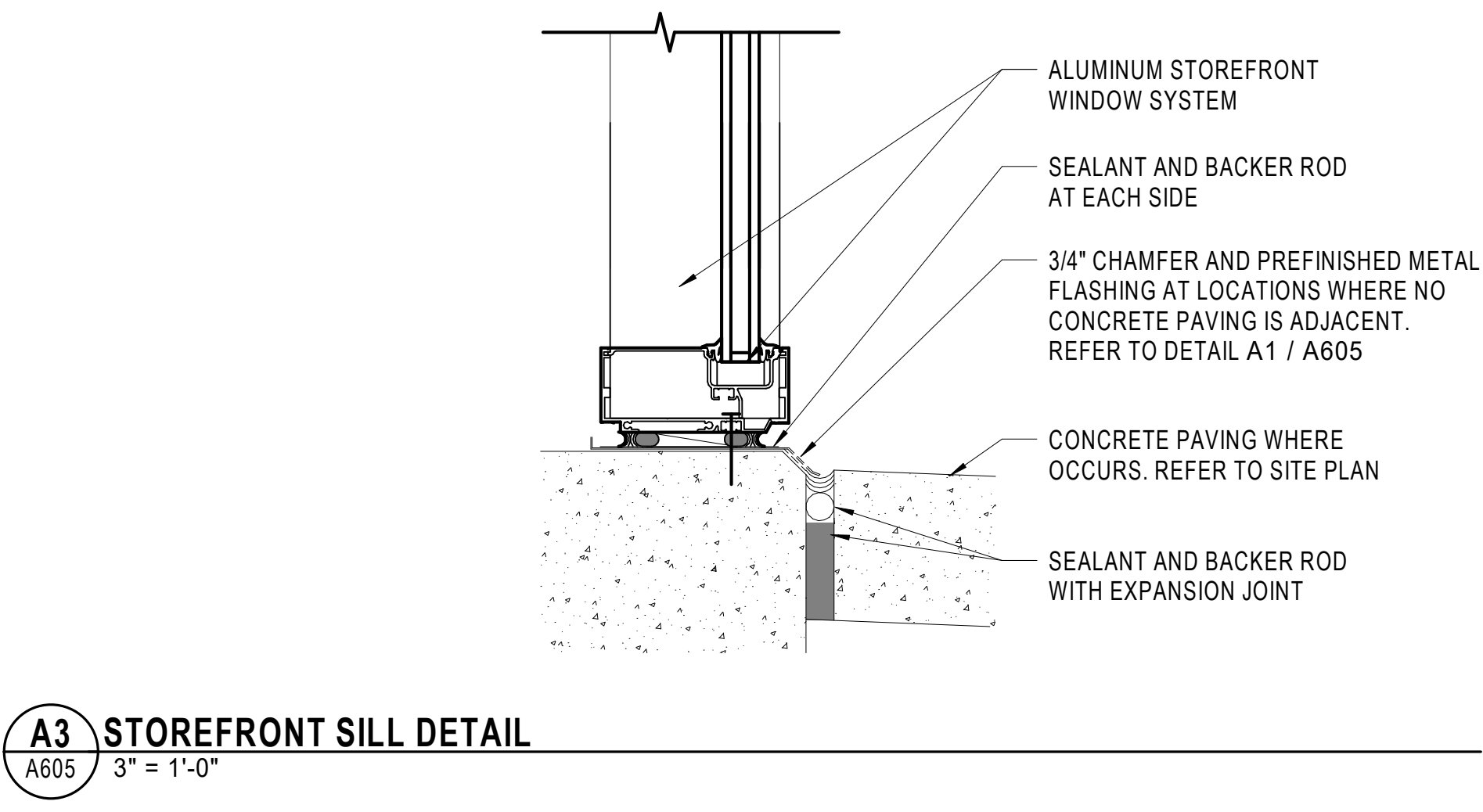
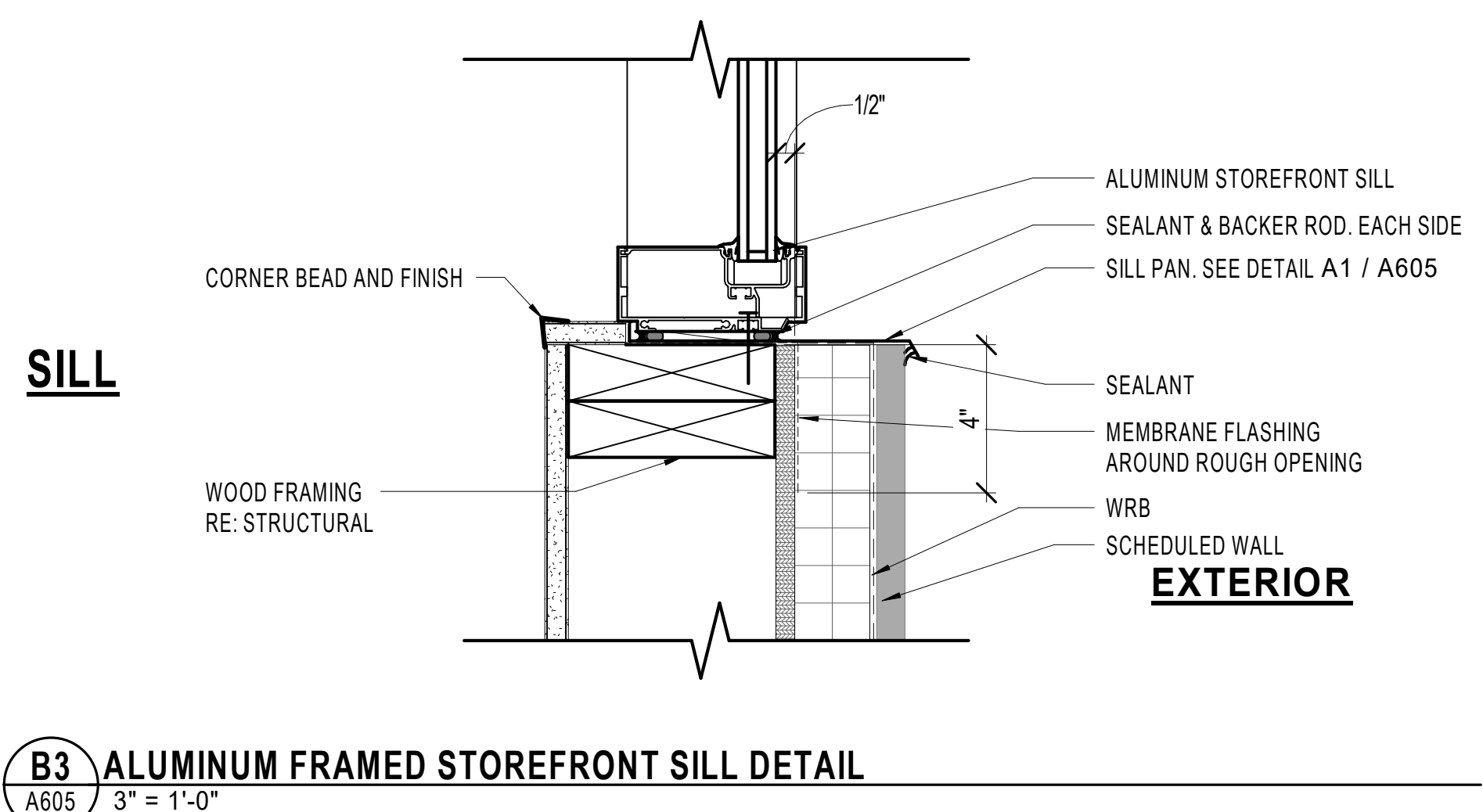
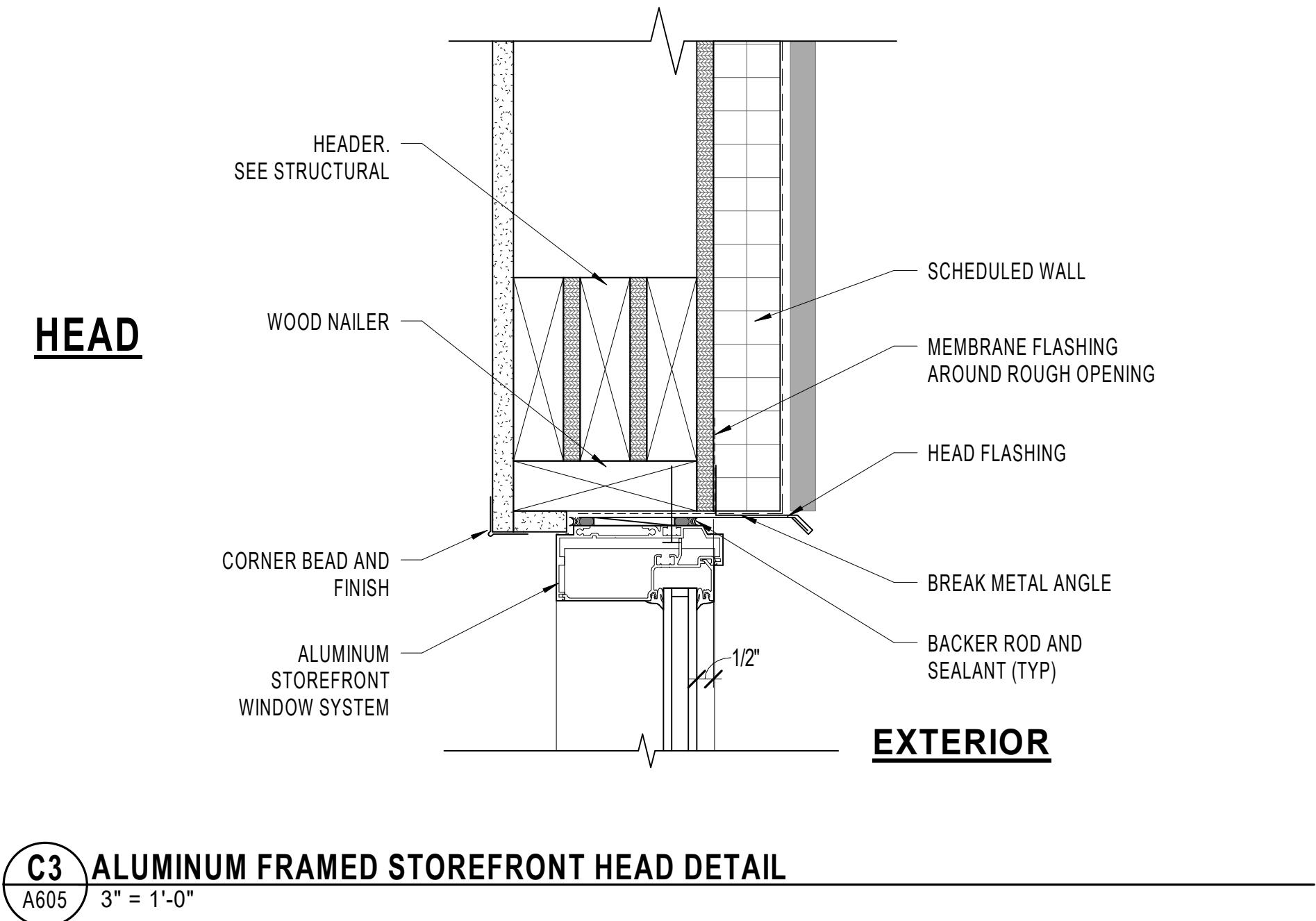
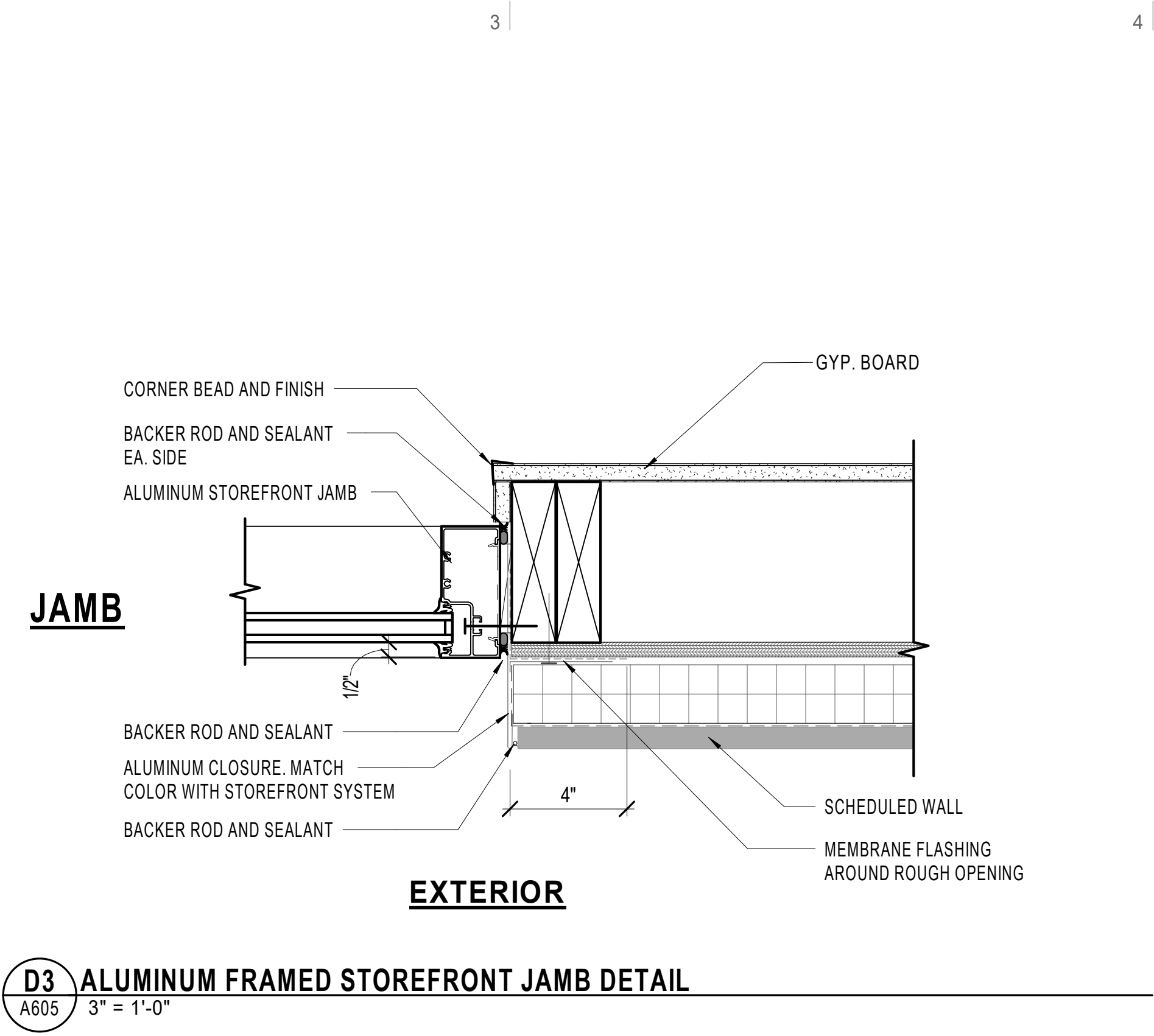
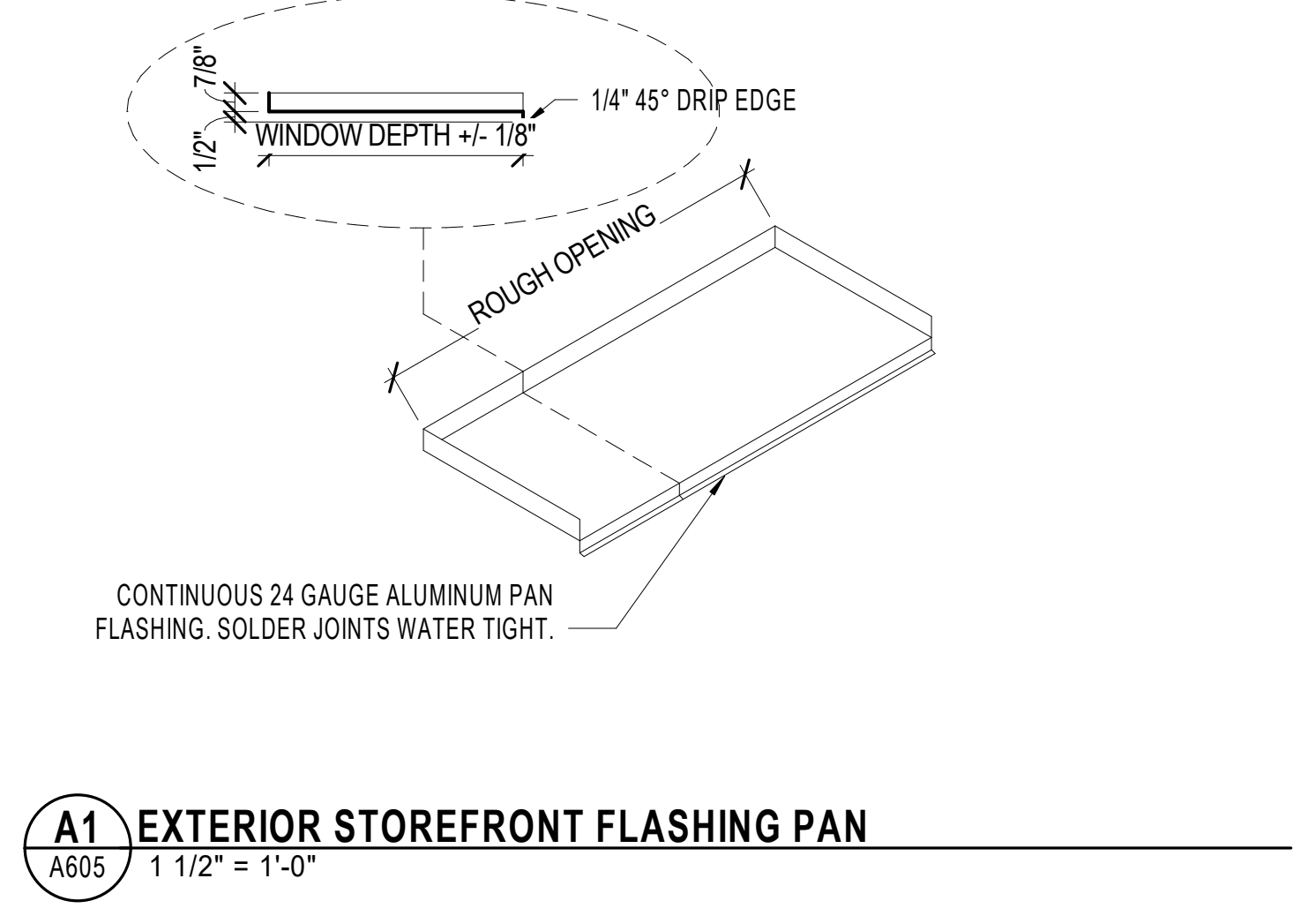
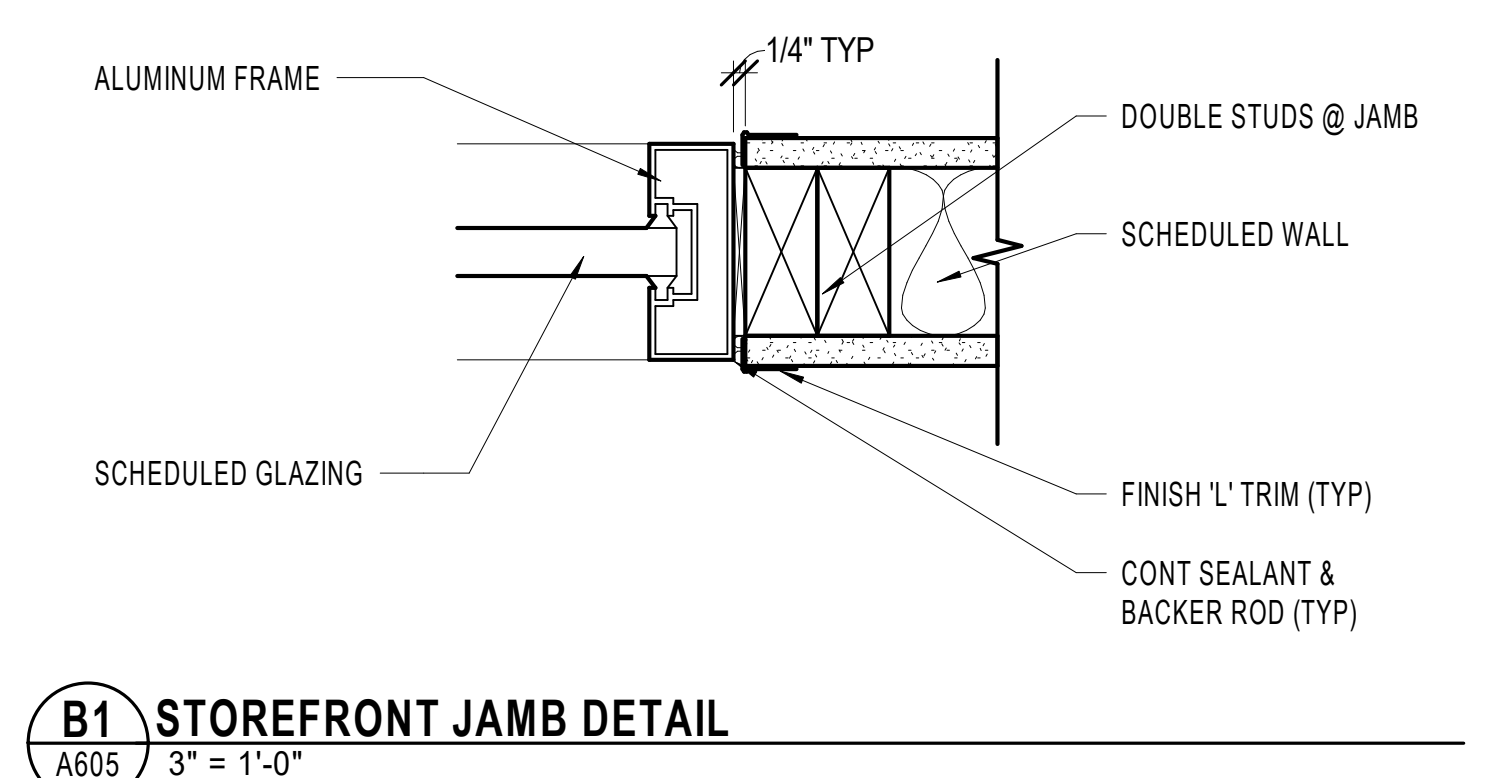
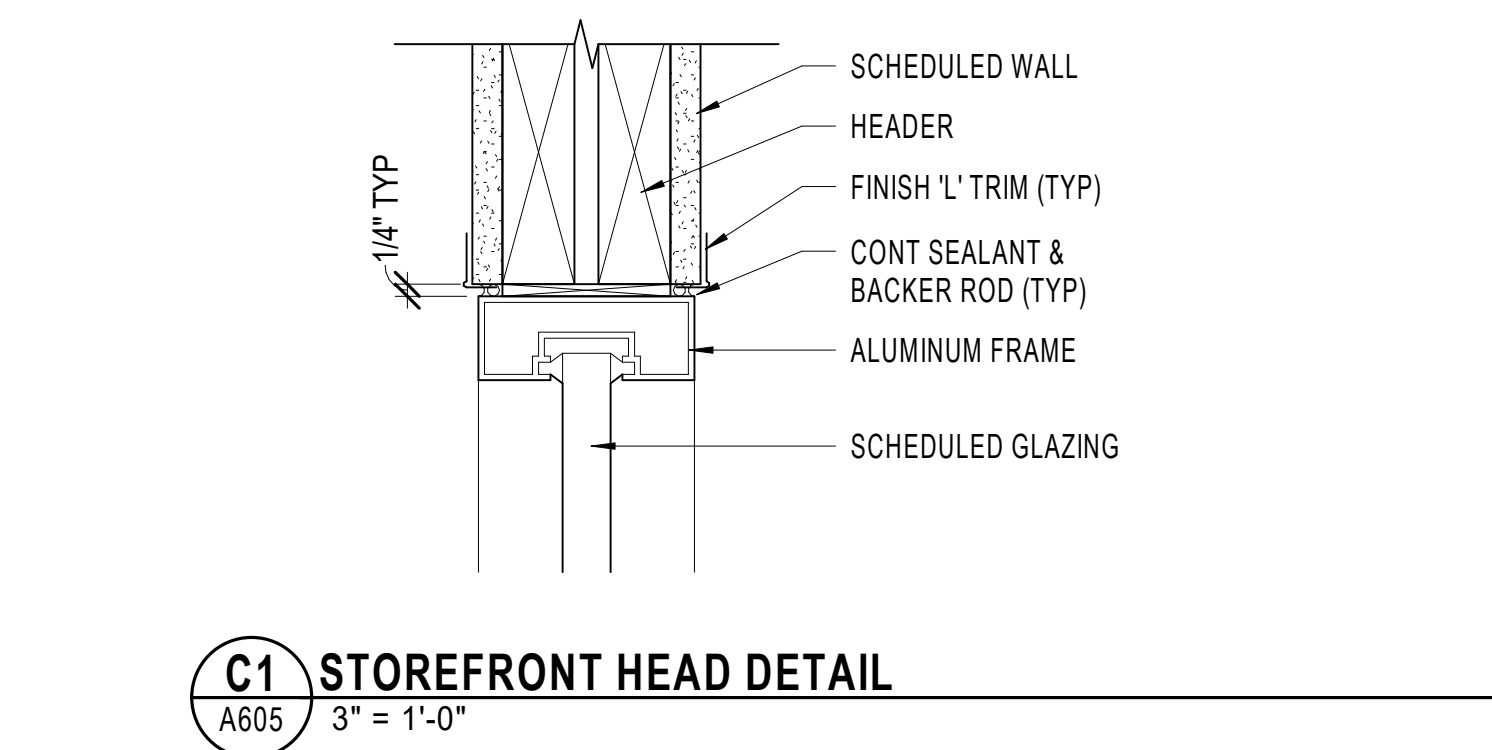
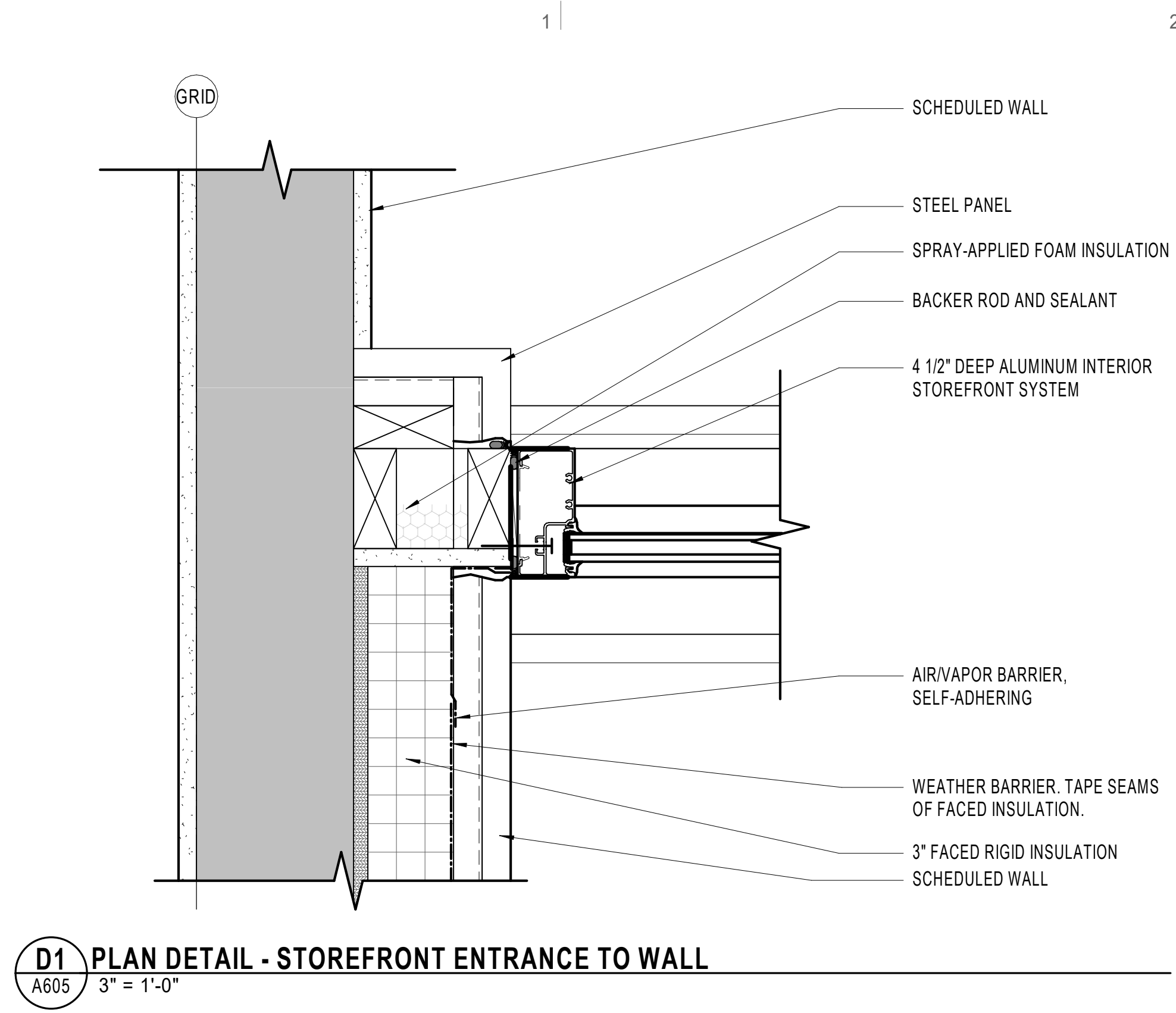
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**WINDOW DETAILS**

**A605**



# A701



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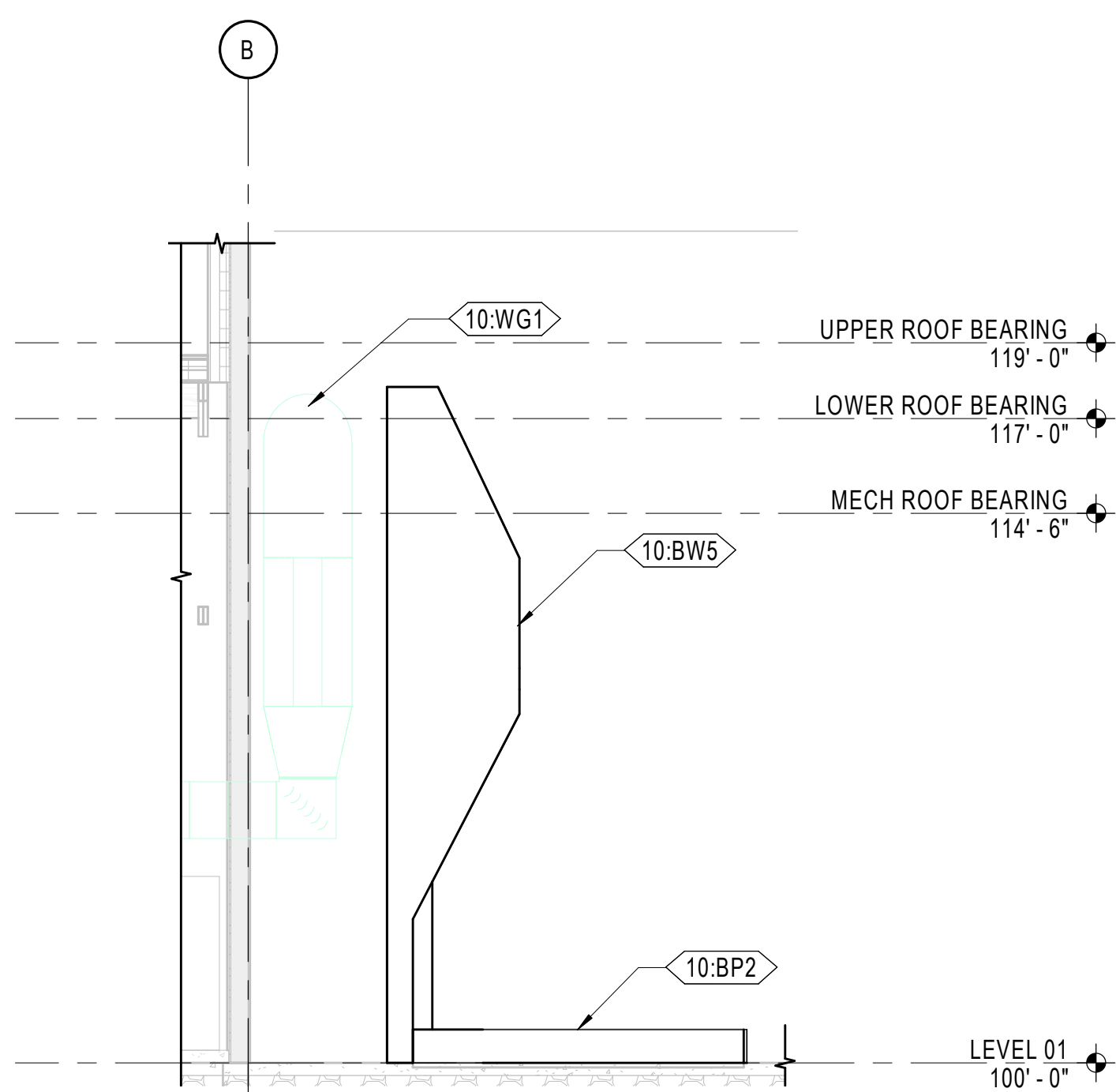
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BOULDER WALL

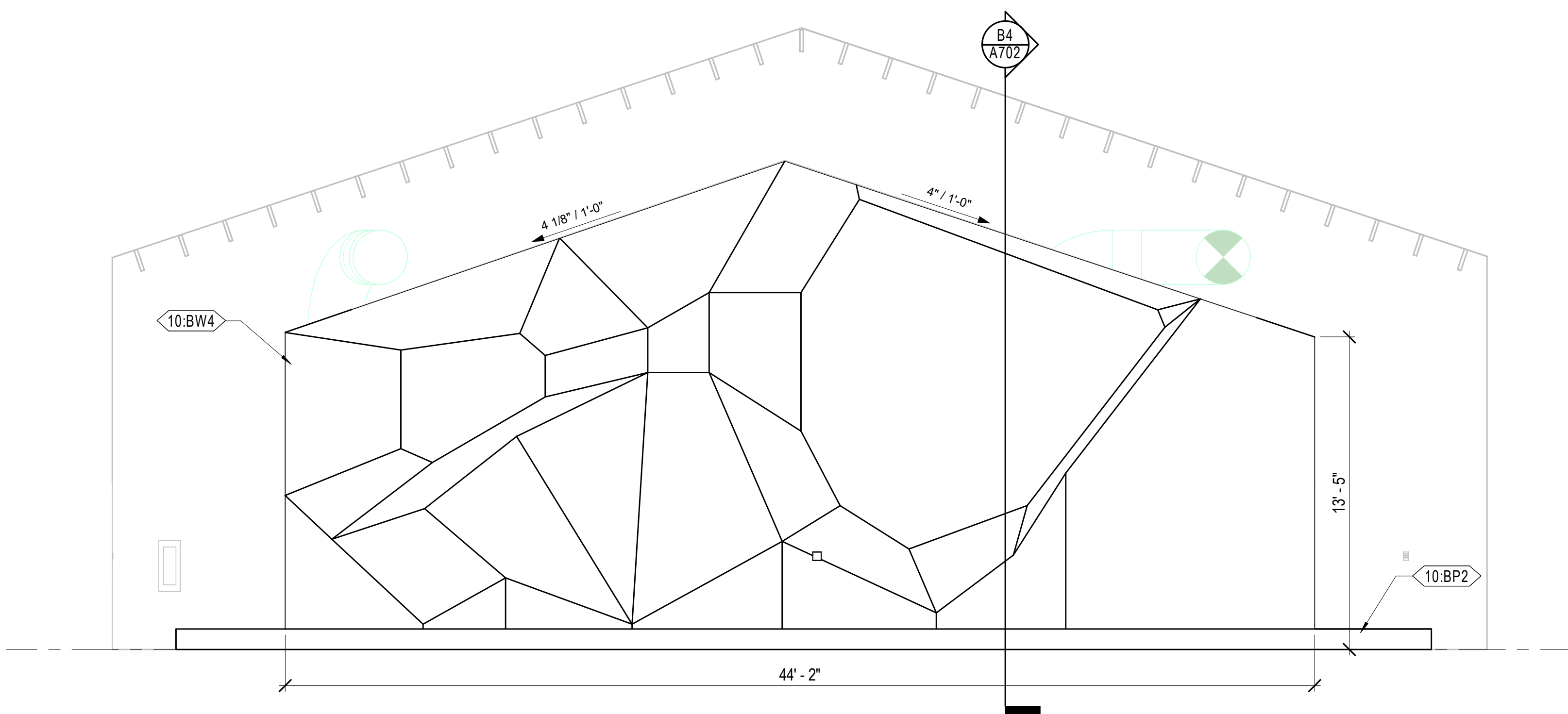
A702

KEYNOTE LEGEND

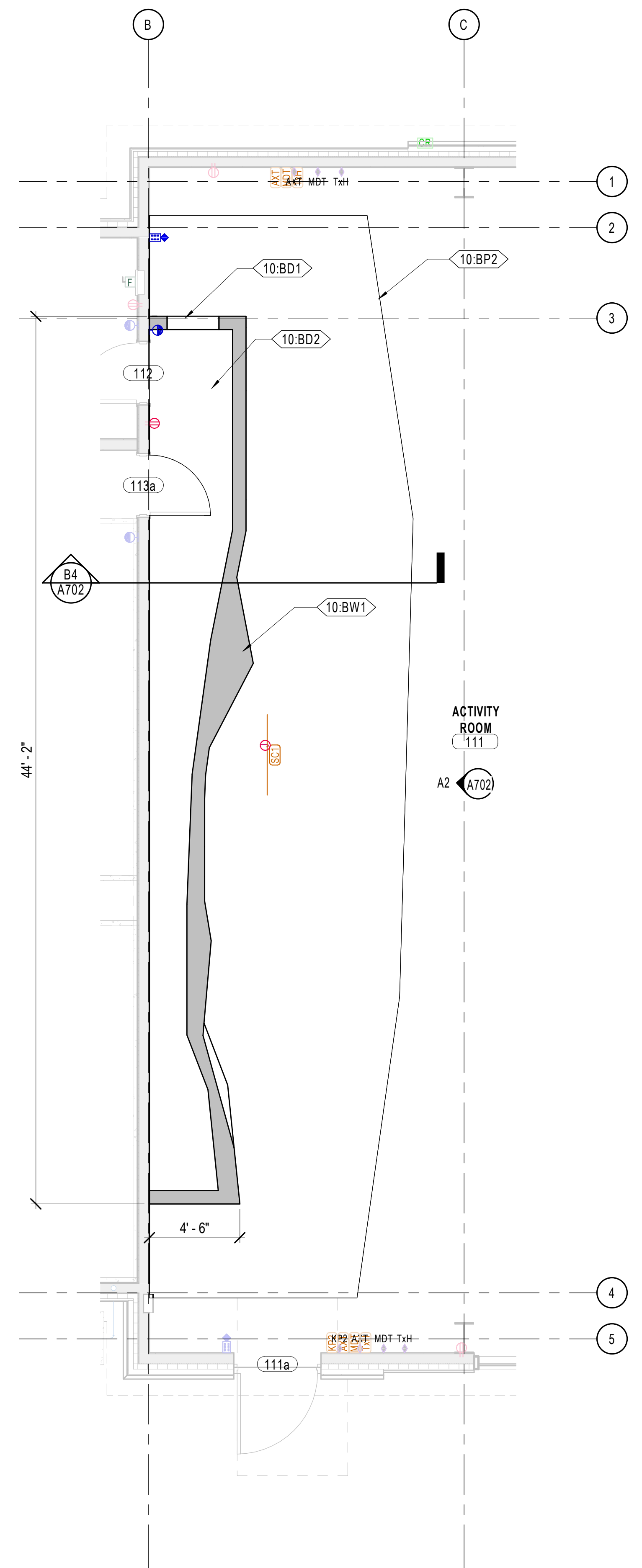
- 10:BD1 6' TALL ACCESS DOOR TO BE INCLUDED WITH BOULDER WALL DESIGN
- 10:BD2 BOULDER WALL DESIGN TO MAINTAIN ACCESSIBILITY TO STORAGE AND MECHANICAL ROOMS BEHIND WALL
- 10:BP2 BOULDER PAD
- 10:BW1 BOULDERING WALL. SEE SHEET A702
- 10:BW4 BOULDER WALL. DESIGN TO FOLLOW ROOF LINE SLOPE AT TOP OF WALL. HOLDS TO BE LOCATED NO HIGHER THAN 12'
- 10:BW5 BOULDER WALL
- 10:WG1 SPACE BETWEEN TOP OF BOULDER WALL AND MECH/EXTERIOR WALL TO BE OPEN OR HAVE GRILLE(S) FOR RETURN AIR. GRILLE(S) WOULD BE BY BOULDER WALL MFG



**B4 BOULDER WALL SECTION**  
A702 1/4" = 1'-0"



**A2 ACTIVITY ROOM ELEVATION - BOULDER WALL**  
A702 1/4" = 1'-0"

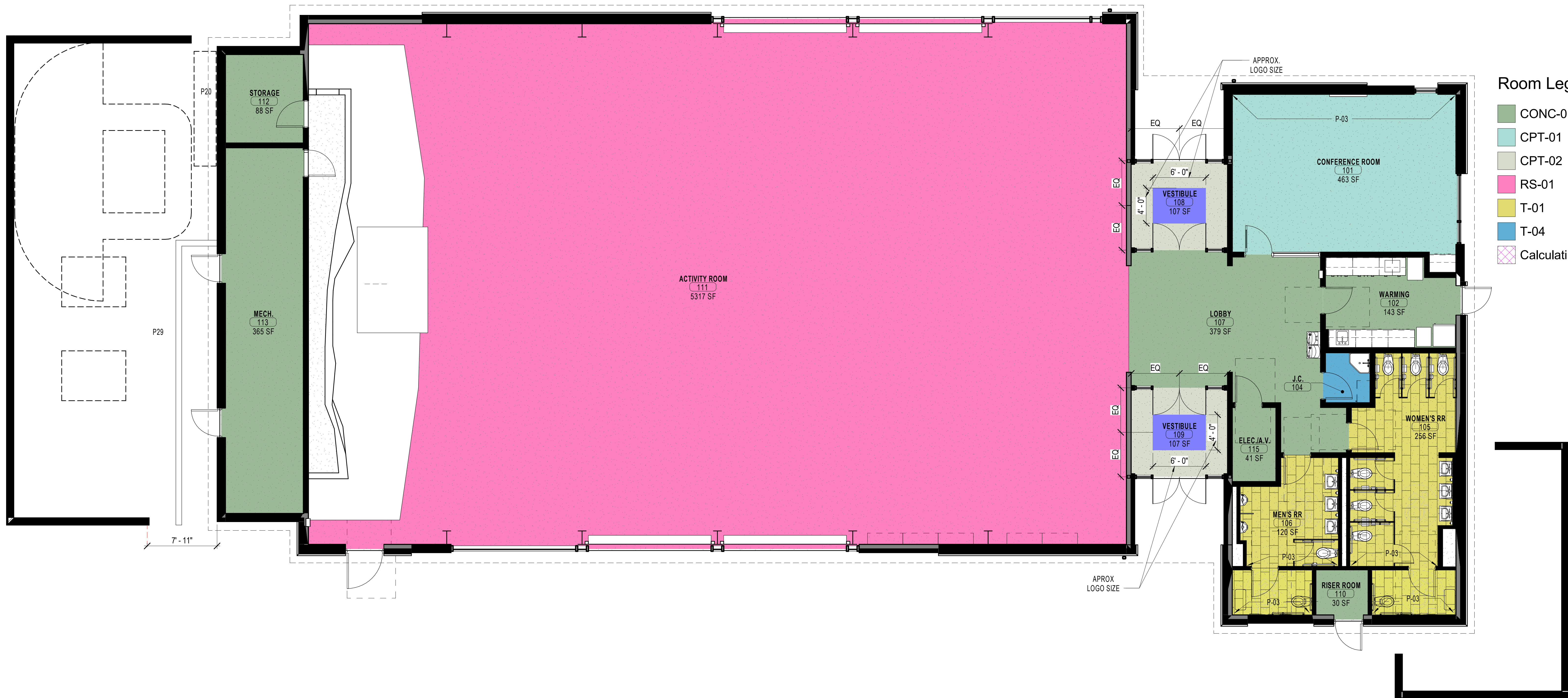


**A5 LEVEL 01 - ENLARGED FLOOR PLAN - BOULDER WALL**  
A702 1/4" = 1'-0"



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1 LEVEL 01 - FLOOR FINISH PLAN  
3/16" = 1'-0"



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FLOOR FINISH PLAN

AI600



EQUIPMENT AND ACCESSORY SCHEDULE											
NUMBER	ITEM	BASIS OF DESIGN	NOTES	FLOOR	WALL	CEILING	COUNTER	PORTABLE	FURNISH	INSTALL	
ACCESSORIES											
CS-02	BABY CHANGING STATION, CHILD PROTECTION SEAT	KOALA KARE; KB102			X				C	C	
FS-01	FOLD DOWN SEAT	ASI; 8203-28			X				C	C	
MR-1	MIRROR, FRAMED, 24" X 36"				X				C	C	
TS-2	GRAB BAR, (2) 18" VERTICAL,(2) 36" HORIZONTAL				X				C	C	
TS-3	SOAP DISPENSER	ASI - 0347			X				V	V	
TS-6	(3) GRAB BARS, 36, 42, & 18"	ASI - 3401-36, 42, &18			X				C	C	
EQUIPMENT											
IC-01	ICE MACHINE	MANITOWOC; NEO UDF-024DA		X					O	O	
MW-01	MICROWAVE	TO BE DETERMINED					X		O	O	
RF02	RESIDENTIAL REFRIGERATOR / FREEZER			X							
ST-01	MOVEABLE STAGE			X					C	C	
TS-5	RECESSED SEAT COVER & TOILET PATER DISPENSER WITH SANITARY DISPOSAL	ASI - 0482			X				V	V	
WC-01	WARMING CABINET	AVANTCO; HP11836			X				O	O	
TECHNOLOGY											
TV01	TELEVISION, 55" (WITH MOUNTING BRACKET)	REFER TO AV SPECS			X				C	C	

ROOM FINISH SCHEDULE										
Room	Name	Floor	Base	Walls				Ceiling	Notes	Room
				N	E	S	W			
101	CONFERENCE ROOM	CPT-01	RB-02	P-03	P-01	P-01	P-01	ACP-01	N2	101
101a	AV CLOSET	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		101a
102	WARMING	CONC-01	RB-01	P-05	P-05	P-05	P-05	GYP-02	N1	102
104	J.C.	T-04	RB-01	P-05 / T-05	P-05 / T-05	P-05	P-05	GYP-02	N4	104
105	WOMEN'S RR	T-01	T-02	P-05 / T-03	P-05 / T-03	P-05 / P-03	P-05 / T-03	GYP-02	N5	105
106	MEN'S RR	T-01	T-02	P-05	T-03	P-05	P-05 / T-03	GYP-02	N5	106
107	LOBBY	CONC-01	RB-01	P-01	P-01	P-01	P-01	GYP-01		107
108	VESTIBULE	CPT-02	RB-02	P-01	P-01	P-01	P-01	GYP-01		108
109	VESTIBULE	CPT-02	RB-02	P-01	P-01	P-01	P-01	GYP-01		109
110	RISER ROOM	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		110
110	RISER ROOM	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		110
111	ACTIVITY ROOM	RS-01	RB-02	P-01	P-01	P-01	P-01 / ST-01	WD-01	N3	111
111A	MAINT. ACCESS									111A
112	MECH.	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		112
112	STORAGE	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		112
113	MECH.	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		113
115	ELEC./A.V.	CONC-01	RB-01	P-01	P-01	P-01	P-01	--		115

FINISH LEGEND		
CODE	DESCRIPTION	REMARKS
ACOUSTICAL CEILING PANEL		
ACP-01	ACOUSTICAL CEILING PANEL: ROCKFON; ARTIC, SQUARE TEGULAR NARROW, SLN 620, 2' X 2' X 5/8"	
CARPET		
CPT-01	CARPET TILE: MILLIKEN; TEXTURED SKY COLLECTION, PATTERN: HORIZON LINE, COLOR: HR22208-211-122 DAWN, SIZE: 25 CM X 1 M, INSTALLATION METHOD: MONOLITHIC	
CPT-02	WALK-OFF CARPET TILE: INTERFACE; SUPER FLOR; COLOR: 609009 MOUSE GREY, SIZE: 50 CM X 50 CM, CUSTOM LOGO PRINTED IN CENTER, REFER TO DWG FOR SIZE, COLOR TO MATCH BRANDING	
CONCRETE		
CONC-01	POLISH SEALED CONCRETE WITH SLIP RESISTANT FINISH, COLOR TBD: (LIGHT COLOR)	
GYPSUM CEILING		
GYP-01	GYPSUM CEILING: PAINTED P-02, REFER TO FINISH LEGEND	
GYP-02	GYPSUM CEILING: PAINTED P-06, REFER TO FINISH LEGEND	
PAINT		
P-01	GENERAL PAINT: DUNN EDWARDS PAINTS; DET600 DOLPHIN TALE, SHEEN: EGGSHELL	
P-02	CEILING PAINT: SHERWIN WILLIAMS; SW7757 HIGH REFLECTIVE WHITE, SHEEN: FLAT	
P-03	ACCENT PAINT: SHERWIN WILLIAMS; SW6487 CLOUDBURST; REFER TO FLOOR FINISH PLAN FOR LOCATIONS	
P-04	METAL DOOR FRAME PAINT: SHERWIN WILLIAMS; SW7018 DOVETAIL, SHEEN: SEMI-GLOSS	
P-05	GENERAL PAINT EPOXY: DUNN EDWARDS PAINTS; DET600 DOLPHIN TALE, EPOXY	
P-06	CEILING PAINT EPOXY: SHERWIN WILLIAMS; SW7757 HIGH REFLECTIVE WHITE, EPOXY	
PLASTIC LAMINATE		
PL-01	WILSONART; FAWN CYPRESS, 8208K-16, CASUAL RUSTIC FINISH	
PL-02	ARBORITE; P-344 RM INUKSHUK GREY	
PL-03	WILSONART; OCEAN D5Q2K-18, LINEARITY FINISH	
PL-04	NEVAMAR; ARMORED PROTECTION, AQUA LAGOON, S5059T TEXTURED	CUBBIES
RESILIENT FLOOR		
RS-01	RUBBER FLOOR: MONDO; ADVANCE 4MM, COLOR: L06 DARK GREY	
RUBBER BASE		
RB-01	RUBBER BASE: JOHNSONITE; TRADITIONAL WALL BASE, COLOR: 32 PEBBLE WG, 6" H W/ TOE	
RB-02	RUBBER BASE: JOHNSONITE; TRADITIONAL WALL BASE, COLOR: 32 PEBBLE WG, 6" H TOELESS	
STONE		
ST-01	ROCK WALL: FINISH TO MATCH EXTERIOR ROCK WALL	
TILE		
T-01	PORCELAIN TILE: DALTILE; INDUSTRIAL PARK, CHARCOAL BLACK IP09, 12" X 24"	RESTROOM FLOOR TILE
T-02	PORCELAIN TILE BASE: DALTILE; INDUSTRIAL PARK, CHARCOAL BLACK IP09, P-36C9T, 6" X 12"	RESTROOM WALL BASE
T-03	PORCELAIN TILE: DALTILE; CHORD, CANON GRAY CH22, DECORATIVE ACCENT TEXTURED, 12" X 24"	RESTROOM WALL TILE
T-04	MOSAIC TILE: DALTILE; 60% KEYSTONES, GROUP 1, COLOR: DESERT GRAY SPECKLE D200, 1" X 1", 40% KEYSTONES, GROUP 2, COLOR: SUEDE GRAY D182, 1" X 1"	JANITORS CLOSET FLOOR TILE
T-05	CERAMIC TILE: DALTILE; ARTIC WHITE 0190, SEMI-GLOSS, 4-1/4" X 4-1/4"	JANITORS CLOSET WALL TILE
WOOD		
WD-01	EXPOSED GLU-LAM BEAMS AND PLYWOOD. PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION.	
FINISH SCHEDULE NOTES		
N1	MILLWORK TO BE AS FOLLOWS: PL-01 AS UPPER CABINETS, PL-03 AS LOWER CABINETS & PL-02 AS COUNTERTOP; REFER TO FINISH LEGEND	
N2	MILLWORK TO BE AS FOLLOWS: PL-01 AS BOTH UPPER & LOWER CABINETS, PL-02 AS COUNTEROP; REFER TO FINISH LEGEND	
N3	MILLWORK CUBBIES TO BE PL-04; REFER TO FINISH LEGEND	
N4	JANITOR'S CLOSET WALL TILE TO BE T-05; REFER TO FINISH LEGEND. TILE FROM F.F. TO 4'-0" A.F.F.; PLACEMENT TO BE ONLY WHERE SINK IS LOCATED.	
N5	RESTROOM WALL TILE TO INSTALL FROM FLOOR TO CEILING; NO BASE ON TILE WALLS.	

GENERAL NOTE - FINISH SCHEDULE

- A. SEE REFLECTED CEILING PLANS FOR CEILING FEATURES AND FINISH ELEVATIONS.  
B. SEE FLOOR FINISH PLAN FOR TILE PATTERNS.  
C. HOLLOW METAL DOOR FRAMES TO BE PAINTED P-04; REFER TO FINISH LEGEND.  
D. STAINLESS STEEL, BRUSHED FINISH, 14 GA HEAVY DUTY CORNER GUARDS TO BE APPLIED TO ALL EXPOSED GYPSUM CORNERS TYP.

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FINISH SCHEDULE

AI601



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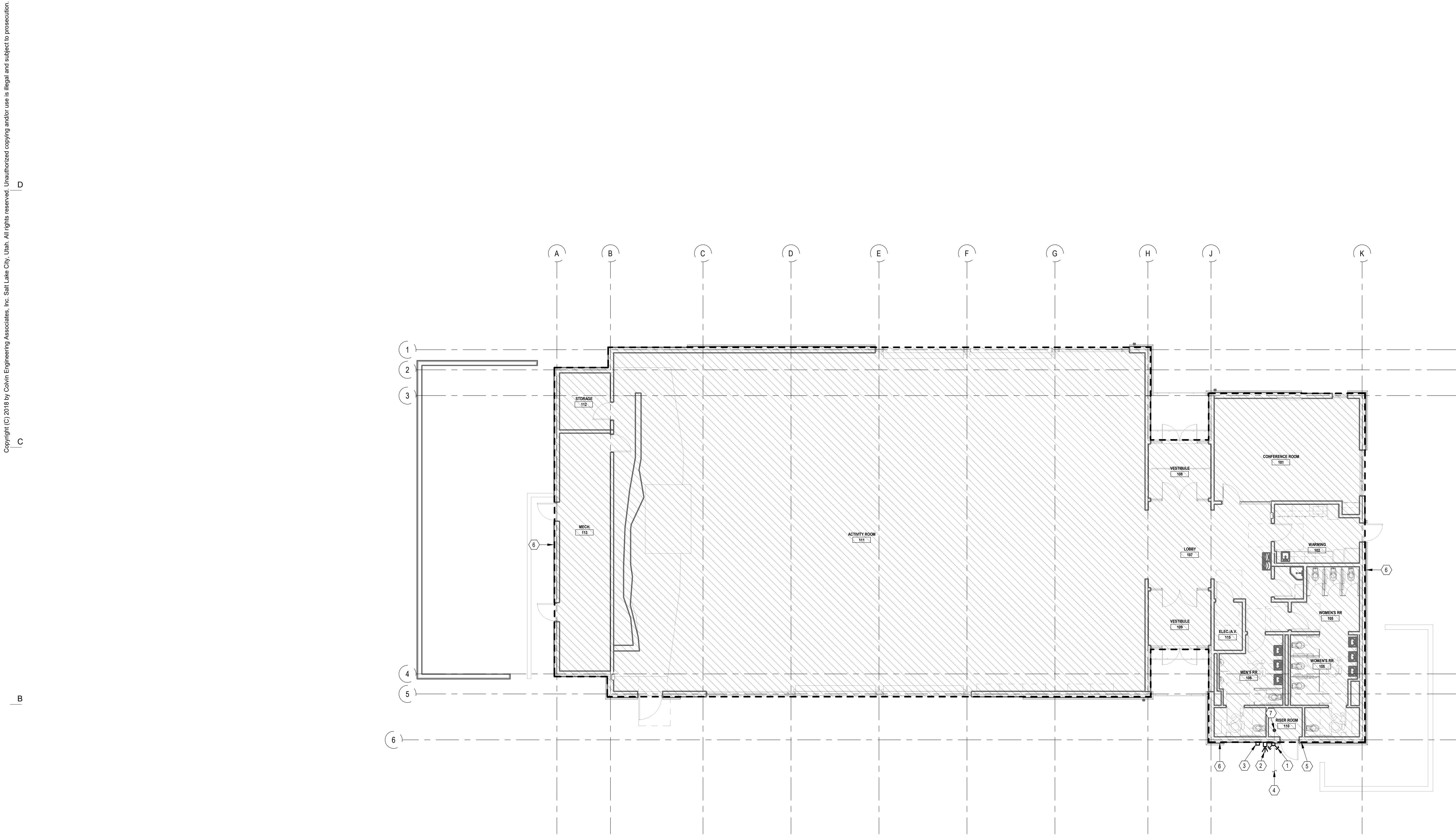
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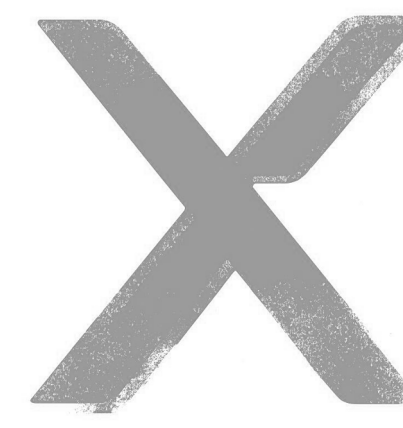


#### KEYED NOTES

- 1 WALL MOUNTED FIRE DEPARTMENT SIAMSE CONNECTION, RUN LINE INSIDE AND CONNECT TO FULL SIZE MAIN FIELD VERIFY EXACT LOCATION WITH DESIGN SPECIFICATIONS AND FIRE PROTECTION CONTRACTOR.
- 2 FIRE ALARM AND STROBE.
- 3 PROVIDE INBOX BOX.
- 4 FIRE LINE FEED. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 5 PROVIDE IDENTIFICATION SIGNS AT THE FIRE SPRINKLER RISER ROOM TO SAY: FIRE SPRINKLER RISER ROOM AND CONTROL VALVES ACCESS.
- 6 PROVIDE FIRE SPRINKLER SYSTEM TO AREA AS INDICATED IN BOUNDARY LINE.
- 7 FIRE RISER.

#### GENERAL NOTES

- A. AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA #13, 2015 EDITION.
- B. AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA #13, 2015 EDITION, INSTALLATION OF SPRINKLER SYSTEMS.
- C. FURNISH AND INSTALL NEW PIPE, FITTINGS, SPRINKLER HEADS AS REQUIRED TO COMPLETE THE WORK. ALL MATERIALS TO MATCH EXISTING.
- D. NEW SPRINKLER HEADS TO MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL SHEETS.
- E. ALL PIPING SHALL BE DOMESTIC.
- F. FITTINGS SHALL BE THREADED, WELDED AND GROOVED IN ACCORDANCE WITH LISTING AND NFPA #13 REQUIREMENTS.
- G. SEISMIC BRACING AND FLEXIBLE COUPLINGS SHALL BE PROVIDED AS REQUIRED FOR SEISMIC PROTECTION.
- H. FLAN END OR MECHANICAL TEES SHALL NOT BE USED, UNLESS REQUIRED FOR FIELD MODIFICATION OF PIPING SYSTEM.
- I. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
- J. THE ARCHITECT SHALL PROVIDE SCHEMATIC SPRINKLER LAYOUTS ON REFLECTED CEILING DRAWINGS. FOR AREAS OF CONCERN, PROVIDE SPRINKLER LAYOUT AS PER ARCHITECTURAL DRAWINGS WHILE MEETING SPRINKLER LISTINGS. COORDINATE WITH ARCHITECT AND ENGINEER WHERE LAYOUTS ARE NOT FEASIBLE AS SHOWN.
- K. SHOP DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR USING A REVIT COMPATIBLE FORMAT. SUBMIT TO OWNERS INSURANCE REVIEW CONSULTANT, ARCHITECT, AND ENGINEER, AS-BUILT DRAWINGS AND ELECTRONIC DRAWING FILES SHALL BE PROVIDED AT END OF PROJECT BY CONTRACTOR.
- L. FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS, AND MATERIALS SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO SUBMITTING TO OTHER AUTHORITIES HAVING JURISDICTION.
- M. FIRE SPRINKLER CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS AND/OR APPROVALS FROM CITY, COUNTY, AND STATE.
- N. PRESSURE TEST AND CERTIFY SPRINKLER SYSTEM.
- O. PIPE ROUTING, ELEVATIONS, SPRINKLER LOCATIONS, ARE SCHEMATIC, AND SHALL BE USED AS REFERENCE ONLY. INSTALLER SHALL FIELD VERIFY CONDITIONS, AND PROVIDE OFFSETS AS REQUIRED FOR INSTALLATION. DEVIATION FROM SCHEMATIC PLAN SHALL BE APPROVED IN WRITING BY THE ENGINEER. PRIOR TO INSTALLATION.
- P. NEW FIRE PROTECTION WORK TO INCLUDE HEADS AND PIPING SYSTEM AS REQUIRED TO MEET NFPA REQUIREMENTS.
- Q. NEW PIPING TO BE SCHEDULE 40 STEEL PIPE LISTED FOR FIRE PROTECTION.
- R. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- S. SUBMIT FIRE PROTECTION DRAWINGS TO LANDLORD'S/OWNER'S INSURANCE REVIEW CONSULTANT.
- T. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.
- U. COORDINATE PIPE ROUTING WITH OTHER TRADES.
- V. TIGHT CEILING SPACE WILL REQUIRE SOME SPRINKLER LINES TO OFFSET OVER OR UNDER DUCTWORK, PIPE, OR OTHER OBSTACLES. PROVIDE DRAINS AS REQUIRED.

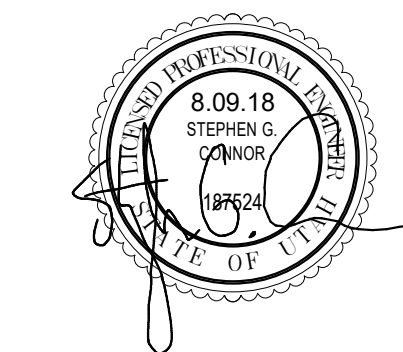


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DRAWN BY: CEA  
DATE: 08.09.18

## FIRE PROTECTION PLAN

# F101

### 1 LEVEL 01 - FIRE PROTECTION OVERALL FLOOR PLAN

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

0 4 8 12





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MECHANICAL LEGEND			
BURIED OR UNDERFLOOR DUCT		CHILLED WATER SUPPLY	—X" CHS—
DUCT SIZE (IN/FIRST FIGURE IS SIDE SHOWN)		CONDENSER WATER RETURN	—X" CR—
FLEXIBLE DUCT (HELICAL)		CONDENSER WATER SUPPLY	—X" CS—
FLEXIBLE DUCT CONNECTION		HEATING WATER RETURN	—X" HWR—
SPIN-IN W/ MVD		HEATING WATER SUPPLY	—X" HWS—
AIR FLOW STATION		RADIANT FLOOR RETURN	—X" RFR—
COMBINATION FIRE/SMOKE DAMPER		RADIANT FLOOR SUPPLY	—X" RFS—
FIRE DAMPER SMOKE DAMPER		REFRIGERANT LIQUID	—X" RL—
GRAVITY BACKDRAFT DAMPER		REFRIGERANT SUCTION	—X" RS—
MANUAL VOLUME DAMPER		SNOWMELT RETURN	—X" SMR—
MOTORIZED DAMPER		SNOWMELT SUPPLY	—X" SMS—
SMOKE DAMPER		STEAM	—X" S—
THERMOSTAT OR TEMP SENSOR W/ EQUIPMENT TAG		STEAM CONDENSATE RETURN	—X" SCR—
RADIAL SUPPLY DIFFUSERS		GROUND LOOP RETURN	—X" RGL—
RETURN GRILLE		GROUND LOOP SUPPLY	—X" GLS—
SUPPLY DIFFUSER		HOT GAS	—X" HG—
SUPPLY SLOT DIFFUSER		HOT GAS BYPASS	—X" HGBP—
DUCT TRANSITION		AQUASTAT	
ELBOW W/ TURNING VANES		FLOW SWITCH	
TEE W/ 45° ENTRY		IN-LINE PUMP	
WYE W/ 45° ENTRY		PRESSURE GAUGE W/ GAUGE COCK	
EXHAUST AIR DUCT DOWN		STRAINER	
EXHAUST AIR DUCT SECTION		TEMPERATURE & PRESSURE TEST PLUG	
EXHAUST AIR DUCT UP		TEMPERATURE SENSING WELL	
RETURN AIR DUCT DOWN		THERMOMETER	
RETURN AIR DUCT SECTION		VENTURI FLOW METER	
RETURN AIR DUCT UP		DIRECTION OF FLOW	
SUPPLY AIR DUCT DOWN		ELBOW DOWN	
SUPPLY AIR DUCT SECTION		ELBOW UP	
SUPPLY AIR DUCT UP		PIPE CAP	
FIRE DEPT. HORN & LIGHT		REDUCER	
FIRE HOSE CABINET		TEE DOWN	
POST TYPE FDC CONNECTION		UNION	
WALL TYPE FDC CONNECTION		CONDENSATE DRAIN	—X" D—
YARD HYDRANT		DOMESTIC COLD WATER	-----X" DCW-----
FLOOR DRAIN		DOMESTIC HOT WATER	—X" DHW—
FLOOR OR GRADE CLEANOUT		DOMESTIC HOT WATER RECIRC.	—X" DHWR—
FLOOR SINK		FIRE SERVICE	—X" F—
GRADE CLEANOUT W/ CONCRETE PAD		GREASE WASTE ABOVE GRADE	—X" GW—
HOSE BIBB OR SILLCOCK		GREASE WASTE BELOW GRADE	-----X" GW-----
MANHOLE		NATURAL GAS	—X" G—
REDUCED PRESSURE BACKFLOW PREVENTOR		OVERFLOW DRAIN	—X" OD—
VENT THROUGH THE ROOF		ROOF DRAIN	—X" RD—
WALL CLEANOUT		SANITARY (PLBG) VENT	-----X" V-----
EXPANSION JOINT		SANITARY WASTE ABOVE GRADE	—X" W—
FLEXIBLE PIPE CONNECTION		SANITARY WASTE BELOW GRADE	-----X" W-----
HEAT TRACING		COMPRESSED AIR	—X" CA—
CHILLED WATER RETURN	—X" CHR—	TEMPERED WATER	—X" T—

ARGON	—X" AR—
CARBON DIOXIDE	—X" CO2—
DEIONIZED WATER RETURN	—X" DI—
DEIONIZED WATER SUPPLY	—X" DIR—
FUEL OIL RETURN	—X" FOR—
FUEL OIL SUPPLY	—X" FOS—
HELIUM	—X" HE—
HYDROGEN	—X" H—
INDUSTRIAL WATER (NON-POTABLE)	—X" IW—
MEDICAL AIR	—X" MA—
NITROGEN	—X" N—
NITROUS OXIDE	—X" N2O—
OXYGEN	—X" O2—
PROPANE	—X" P—
REVERSE OSMOSIS	—X" RO—
VACUUM	—X" VAC—
WATER TREATMENT	—X" WT—
ACCESS PANEL	
CARBON DIOXIDE SENSOR	
CARBON MONOXIDE SENSOR	
HUMIDISTAT OR HUMIDITY SENSOR	
NITROGEN DIOXIDE SENSOR	
POINT OF CONNECTION TO EXISTING	
POINT OF REMOVAL FROM EXISTING	
AIR VENT (AUTOMATIC)	
AUTOMATIC CONTROL VALVE (2-WAY)	
AUTOMATIC CONTROL VALVE (3-WAY)	
BALL VALVE	
BUTTERFLY VALVE	
CALIBRATED BALANCE VALVE	
CHECK (SWING OR LIFT AS REQ'D) VALVE	
CURB COCK	
GAS COCK	
GATE OS & Y PATTERN VALVE	
GATE VALVE	
MOTORIZED ACTUATOR	
P&T RELIEF VALVE	
PET COCK OR GAUGE COCK	
PLUG VALVE	
PRESSURE REDUCING VALVE	
SOLENOID VALVE	
THERMAL EXPANSION VALVE	
DETAIL TAG	
KEYED NOTE	
SECTION CUT LINE	

ABBREVIATIONS	
Key Name	Comments
AD	ACCESS DOOR
AF	AIRFOIL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BI	BACKWARD INCLINE
BO	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CBV	CALIBRATED BALANCE VALVE
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
CV	CONTROL VALVE
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DHW	DOMESTIC HOT WATER RECIRC
DA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DISHWASHER
E	EXISTING
EA	EACH OR EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
ELEV	ELEVATION
ENCL	ENCLOSURE
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EW	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
FOO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FO	FLAT OVAL
FFM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
FV	FACE VELOCITY
GAL	GALLON
GAL	GALLON
GO	GARAGE DRAIN
GEA	GREASE EXHAUST AIR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HR	HOUR
HT	HEIGHT
IN	INCH
INWC	INCHES OF WATER COLUMN
INWG	INCHES OF WATER GAUGE
L	LAVATORY OR LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS
MECH	MECHANICAL
MIN	MINIMUM
MPSA	MEDIUM PRESSURE SUPPLY AIR
MUA	MAKE-UP AIR
MVD	MANUAL VOLUME DAMPER
NC	NOISE CRITERIA OR NORMALLY CLOSED
N/C	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OVERFLOW DRAIN
OFCD	OWNER FURNISHED, CONTRACTOR INSTALLED
OFDI	OWNER FURNISHED, OWNER INSTALLED
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
RLF	RELIEF AIR
RFBP	REDUCED PRESSURE BACKFLOW PREVENTOR
SA	SUPPLY AIR OR SHOCK ARRESTOR
SEN	SENSIBLE
SF	SQUARE FEET
SIM	SIMILAR
SL	SEA LEVEL
SP	STATIC PRESSURE
SS	SERVICE SINK OR STAINLESS STEEL
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	URINAL
V	VENT
VAV	VARIABLE AIR VOLUME
VO	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH THE ROOF
W	WASTE
W	WITH
WO	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
WT	WEIGHT
Ø	ROUND OR DIAMETER

DRAWING INDEX	
#	SHEET NAME
M001	MECHANICAL LEGEND, SYMBOLS & ABBREV.
F101	FIRE PROTECTION PLAN
M101	MECHANICAL OVERALL PLAN
M101A	MECHANICAL FLOOR PLAN - AREA A
M101B	MECHANICAL FLOOR PLAN AREA B
M102	MECHANICAL ROOF PLAN
M301	MECHANICAL SECTIONS
M501	MECHANICAL DETAILS
M802	MECHANICAL SCHEDULES
M701	MECHANICAL SCHEMATICS
P101	PLUMBING OVERALL PLAN
P101A	PLUMBING FLOOR PLAN - AREA A
P101B	PLUMBING FLOOR PLAN - AREA B
P201	PLUMBING SCHEMATICS
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES

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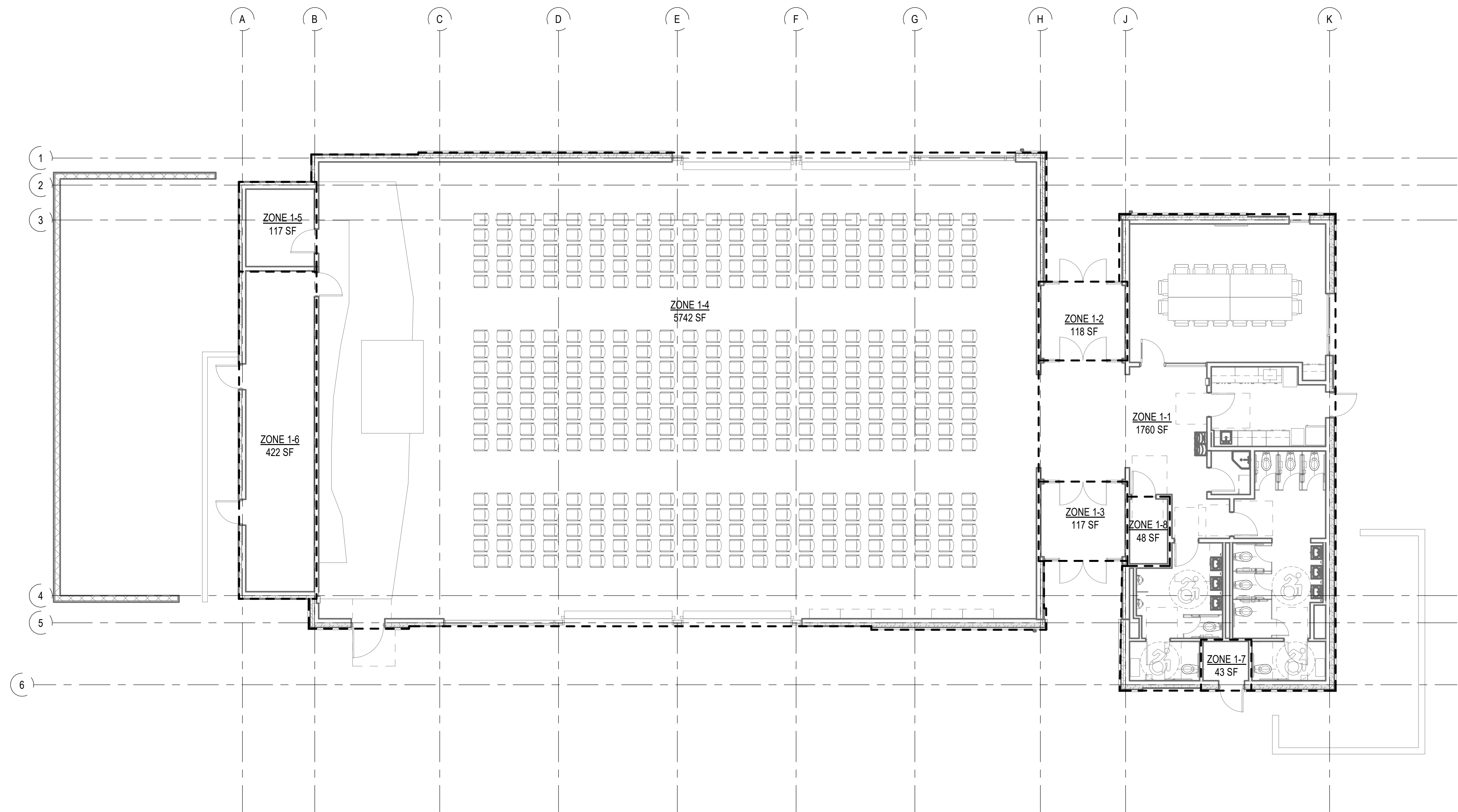
MECHANICAL LEGEND, SYMBOLS & ABBREV.

M001



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1 LEVEL 01 - MECHANICAL ZONING PLAN  
SCALE: 1/8" = 1'-0"

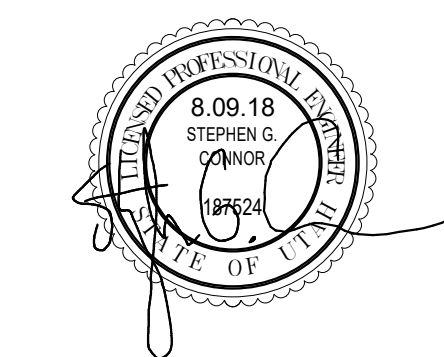


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**MECHANICAL ZONING PLAN**

**M011**



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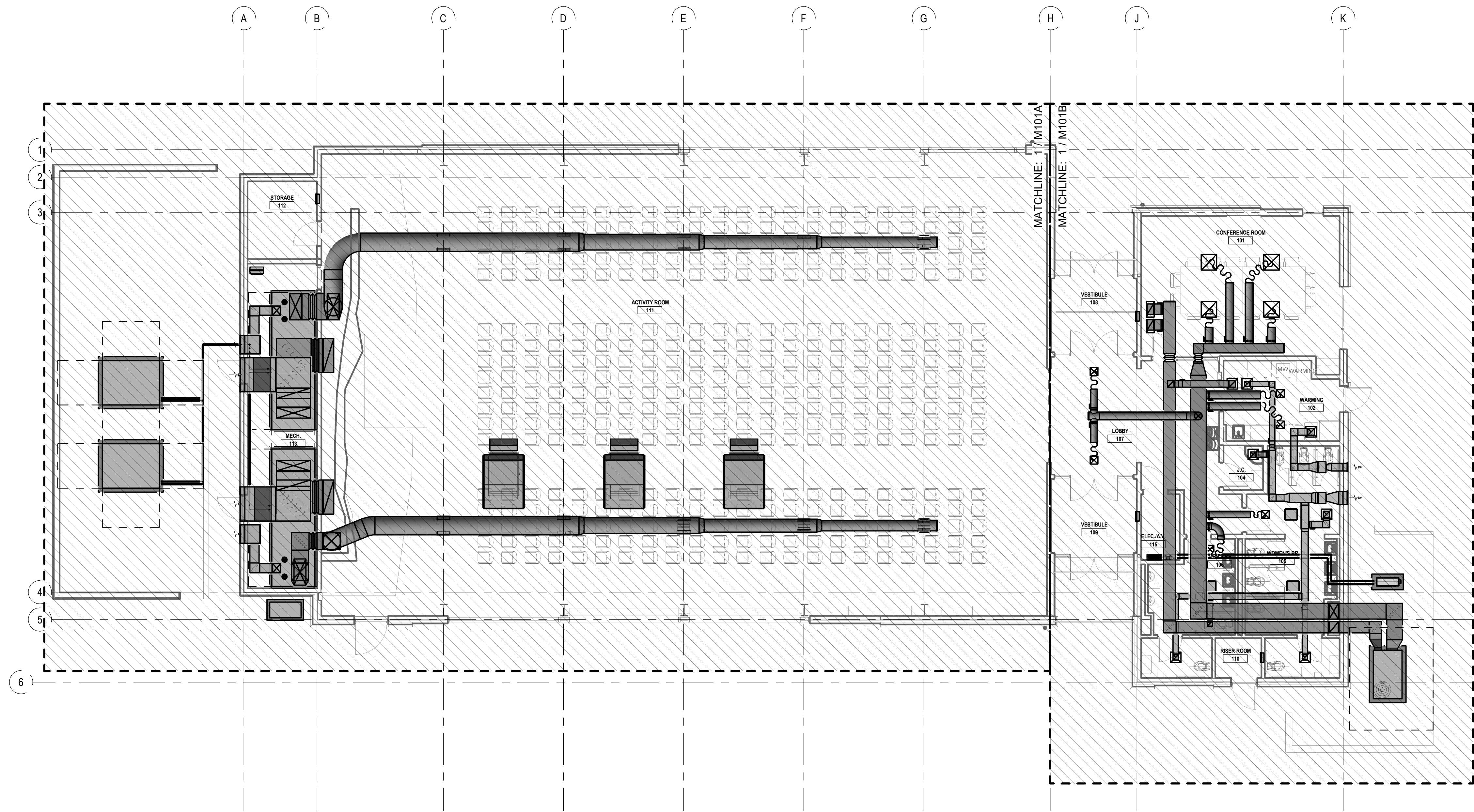
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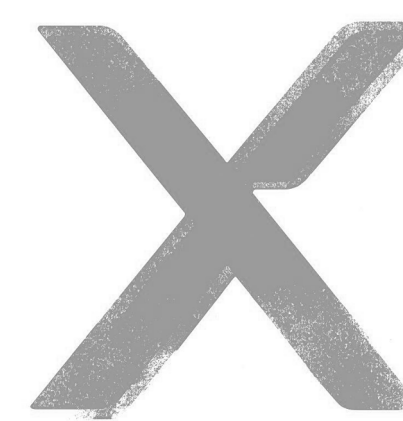
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1 LEVEL 01 - MECHANICAL OVERALL FLOOR PLAN

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



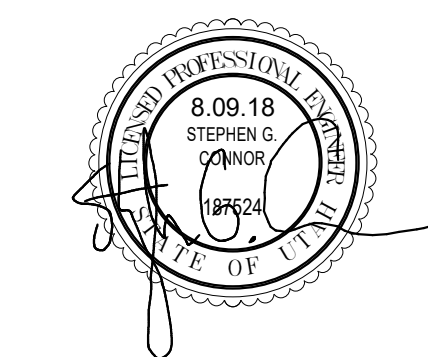
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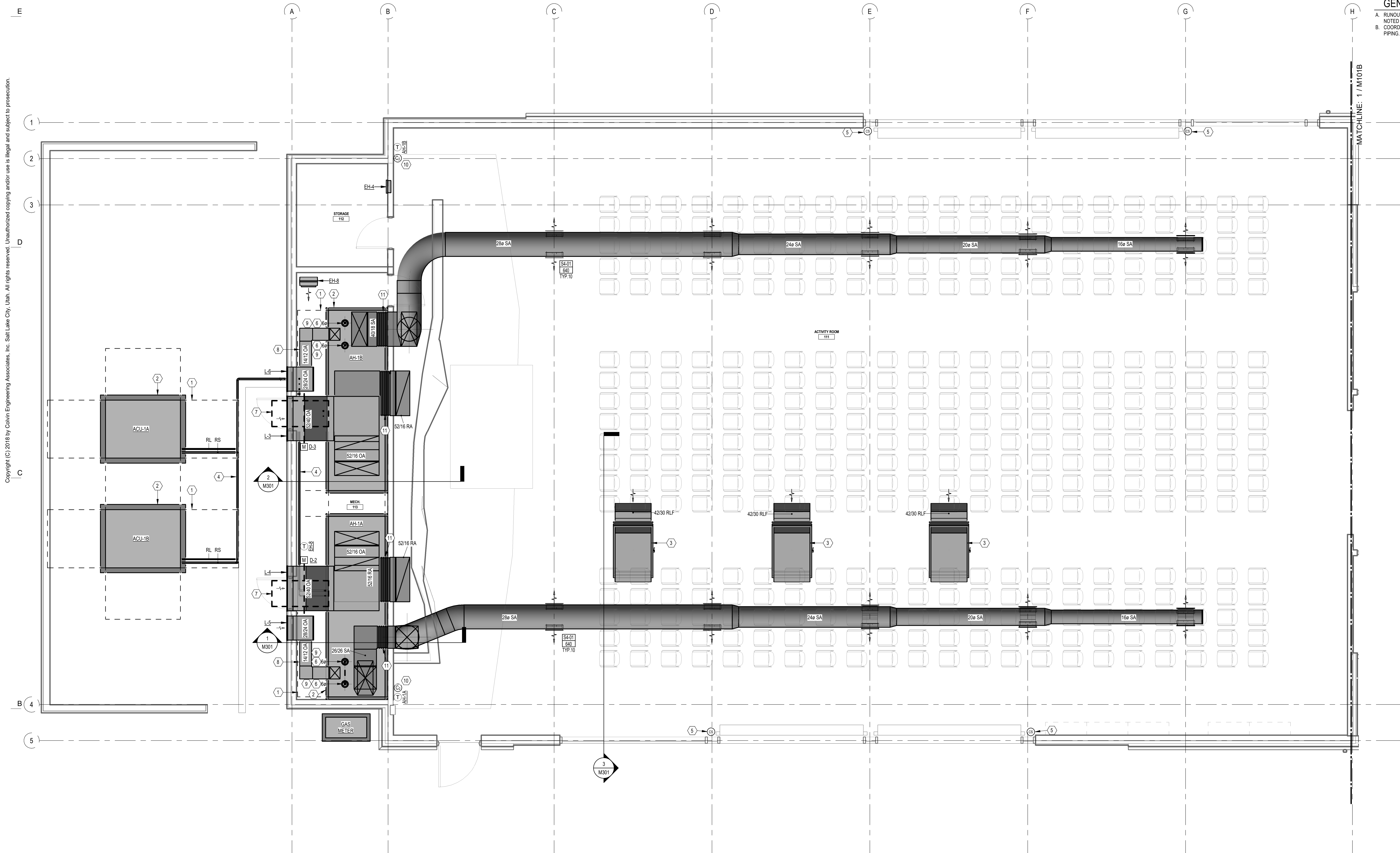
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MECHANICAL  
OVERALL PLAN

M101



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- KEYED NOTES**
1. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND MECHANICAL EQUIPMENT.
  2. INSTALL MECHANICAL EQUIPMENT ON 4" CONCRETE PAD.
  3. 42/60 RLF DUCT UP TO RELIEF HOOD.
  4. STACK AND SUPPORT RURS PIPING TO WALL, WITH UNISTRUT.
  5. PROVIDE DOOR CONTACT SENSOR, AH-1A & AH-1B TO DEACTIVATE WHEN ALL ROLL UP DOORS ARE OPEN.
  6. AIR HANDLER FURNACE FLUE EXHAUST, PROVIDE CODE COMPLIANT CAP, RISE A MINIMUM OF 3'-0" ABOVE ROOF LINE, B-VENT TYPE FLUE, COIL, FULL CLEARANCE SPACE.
  7. COMBUSTION AIR DUCTWORK TO SERVICE AIR HANDLER FURNACE.
  8. PROVIDE CONDENSATE DRAIN AT LOW POINT OF FLUE AND WITHIN CABINET, REFER TO MANUFACTURE INSTALLATION INSTRUCTIONS.
  9. PROVIDE WALL MOUNTED CARBON DIOXIDE SENSORS.
  10. PROVIDE FLEX DUCT AT PENETRATION OF WALL.

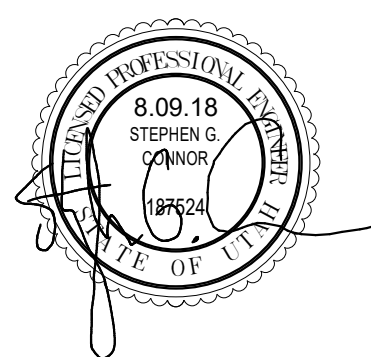
- GENERAL NOTES**
- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
  - B. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING, PROVIDE OFFSETS AS REQUIRED.

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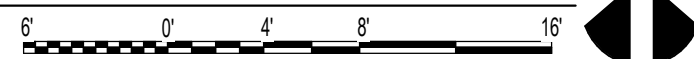
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**MECHANICAL  
FLOOR PLAN -  
AREA A**

**M101A**

**1 LEVEL 01 - MECH ENLARGED FLOOR PLAN - AREA A**  
SCALE: 1/4" = 1'-0"

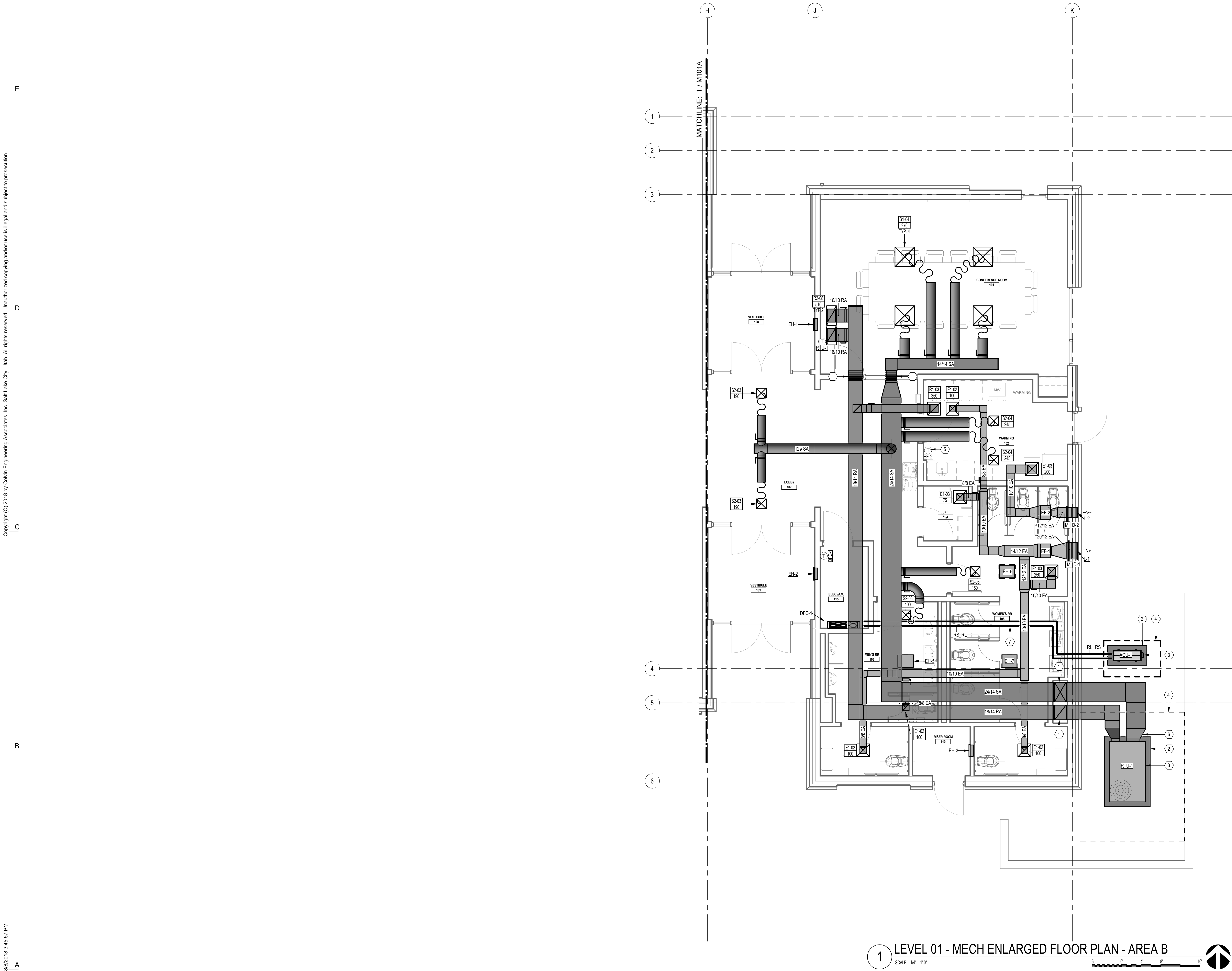


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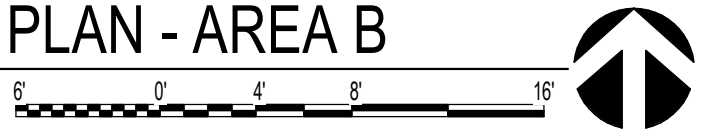


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1 LEVEL 01 - MECH ENLARGED FLOOR PLAN - AREA B  
SCALE: 1/8" = 1'-0"



KEYED NOTES

1. RISE/DROP DUCT IN CHASE FROM CEILING SPACE TO EXTERIOR WALL.
2. INSTALL MECHANICAL EQUIPMENT ON 4" CONCRETE PAD.
3. MOUNT MECHANICAL EQUIPMENT ON GALVANIZED STEEL SUPPORT. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL DETAILS.
4. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND MECHANICAL EQUIPMENT.
5. PROVIDE THERMOSTAT TO ACTIVATE EXHAUST FAN.
6. TRANSITION DUCT TO AIR HANDLER AS REQUIRED, TYP.
7. REFRIGERANT SUCTION/LIQUID PIPING FROM CONDENSING UNIT TO AIR HANDLER DX COIL. SIZING AS RECOMMENDED BY MANUFACTURER.

GENERAL NOTES

- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
- B. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.



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MECHANICAL  
FLOOR PLAN  
AREA B

M101B



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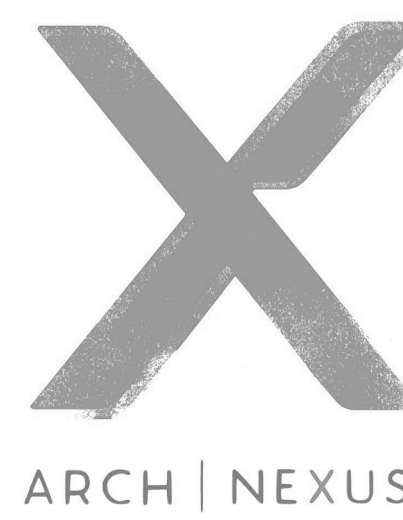
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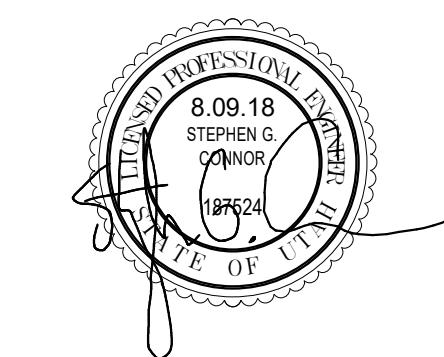
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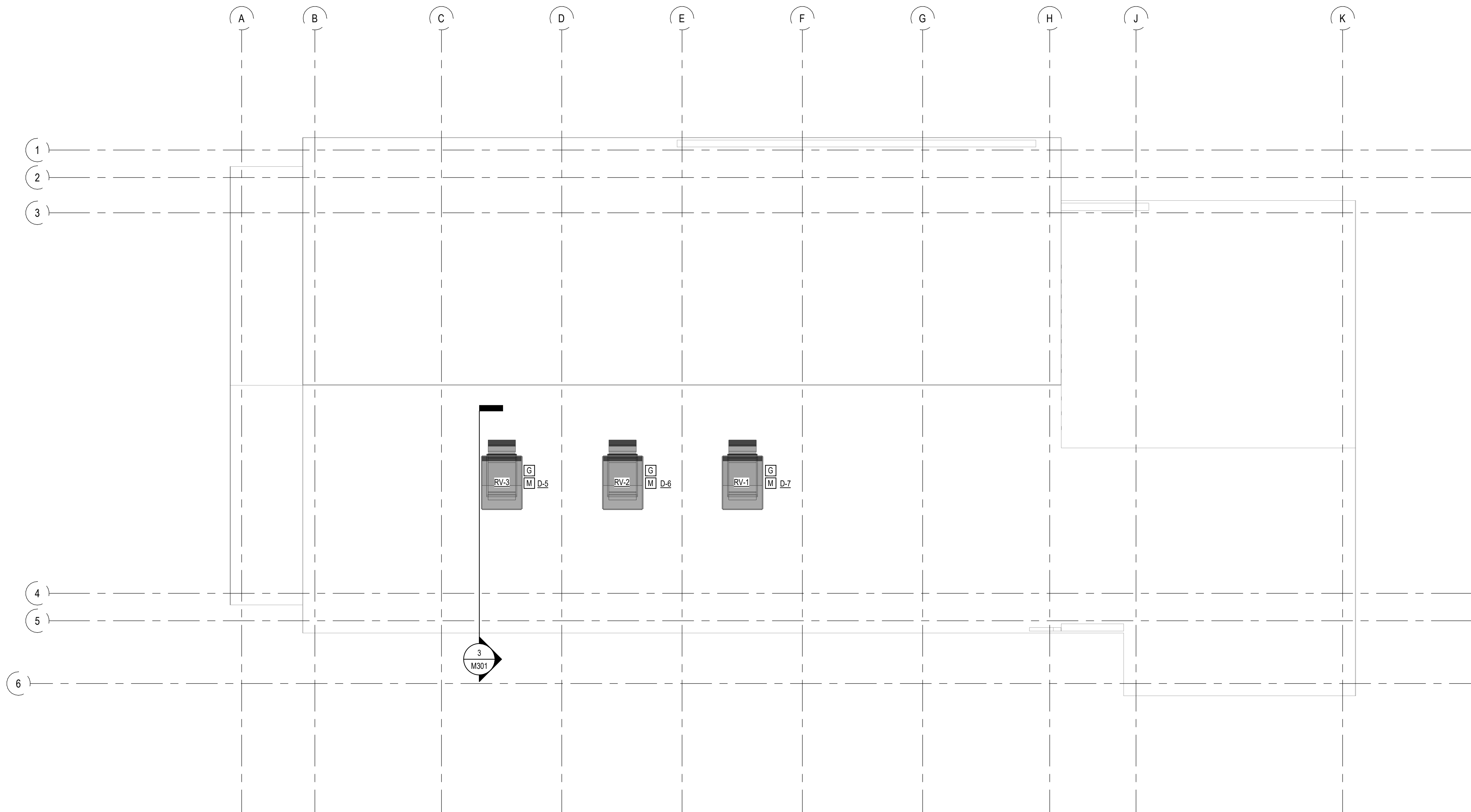
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### CONSTRUCTION DRAWINGS

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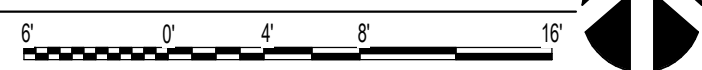
### MECHANICAL ROOF PLAN

# M102



### 1 MECHANICAL ROOF PLAN

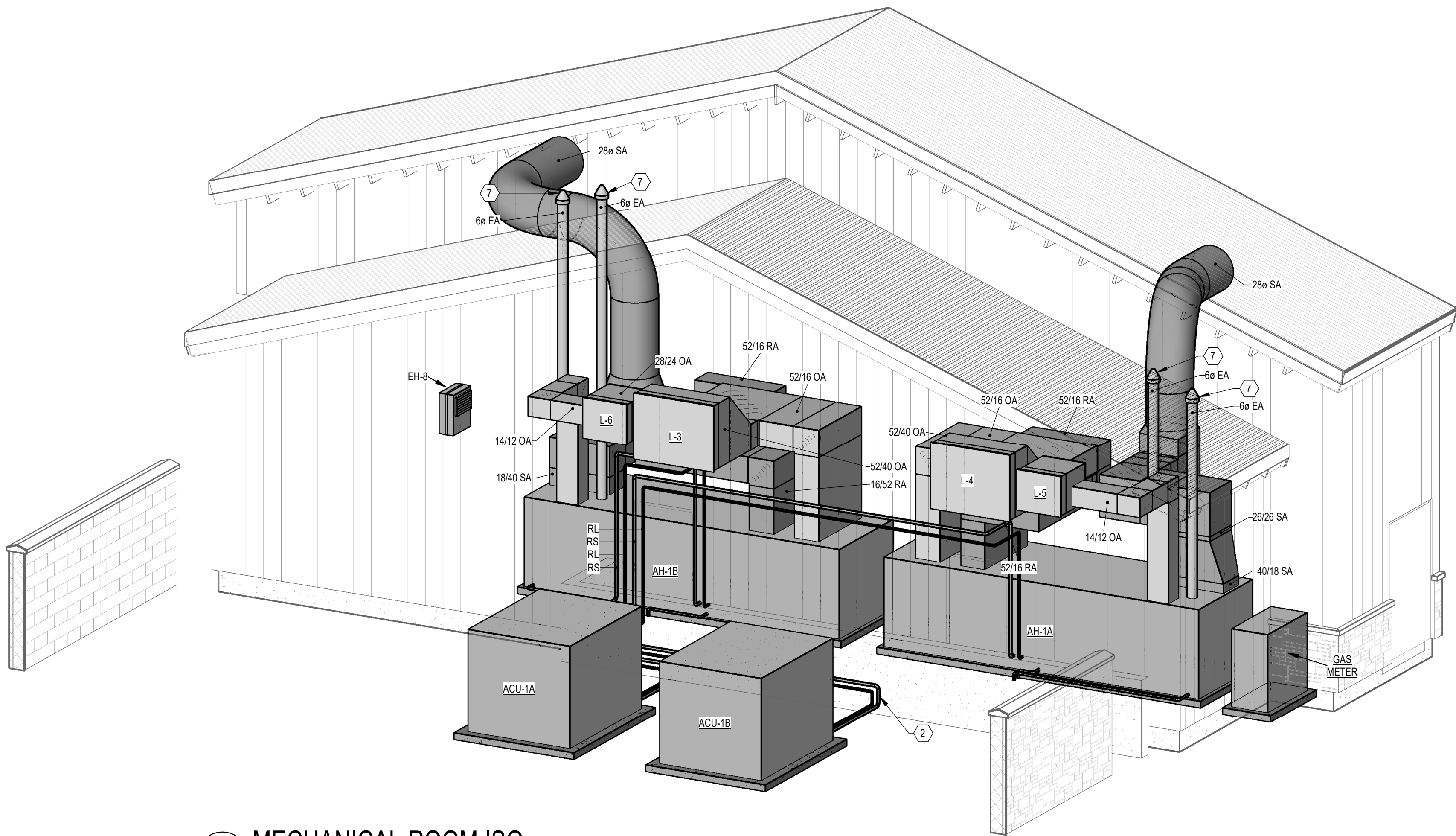
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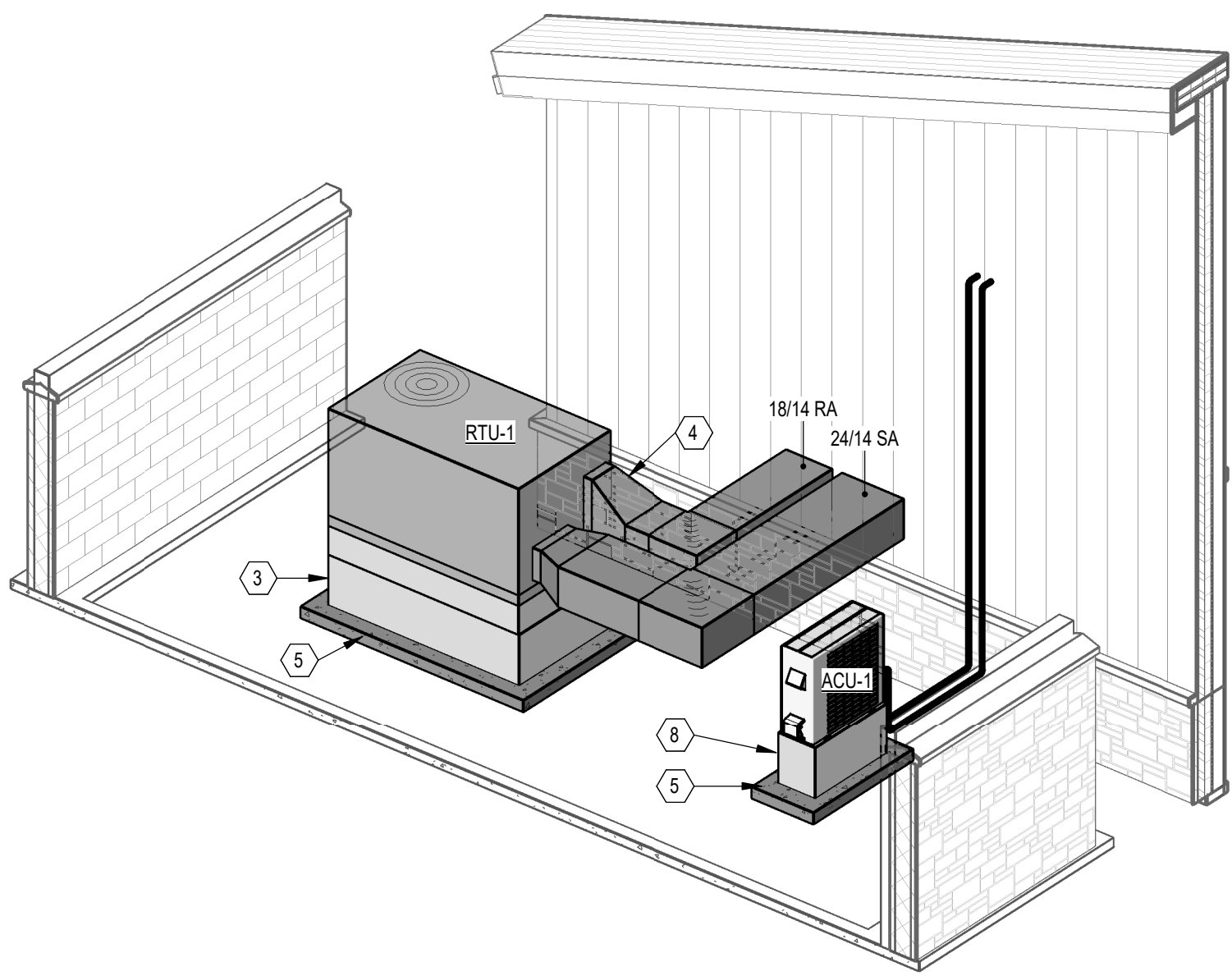


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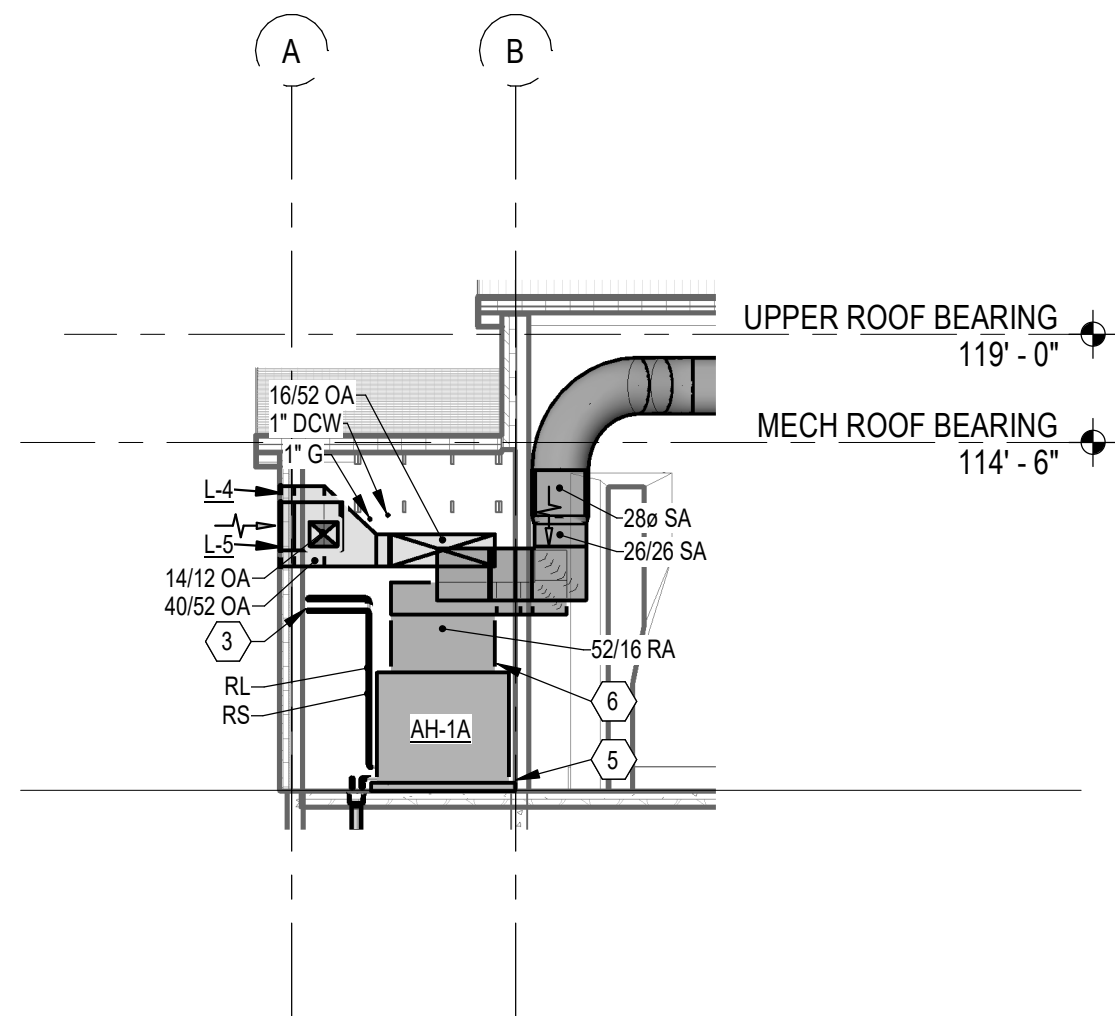
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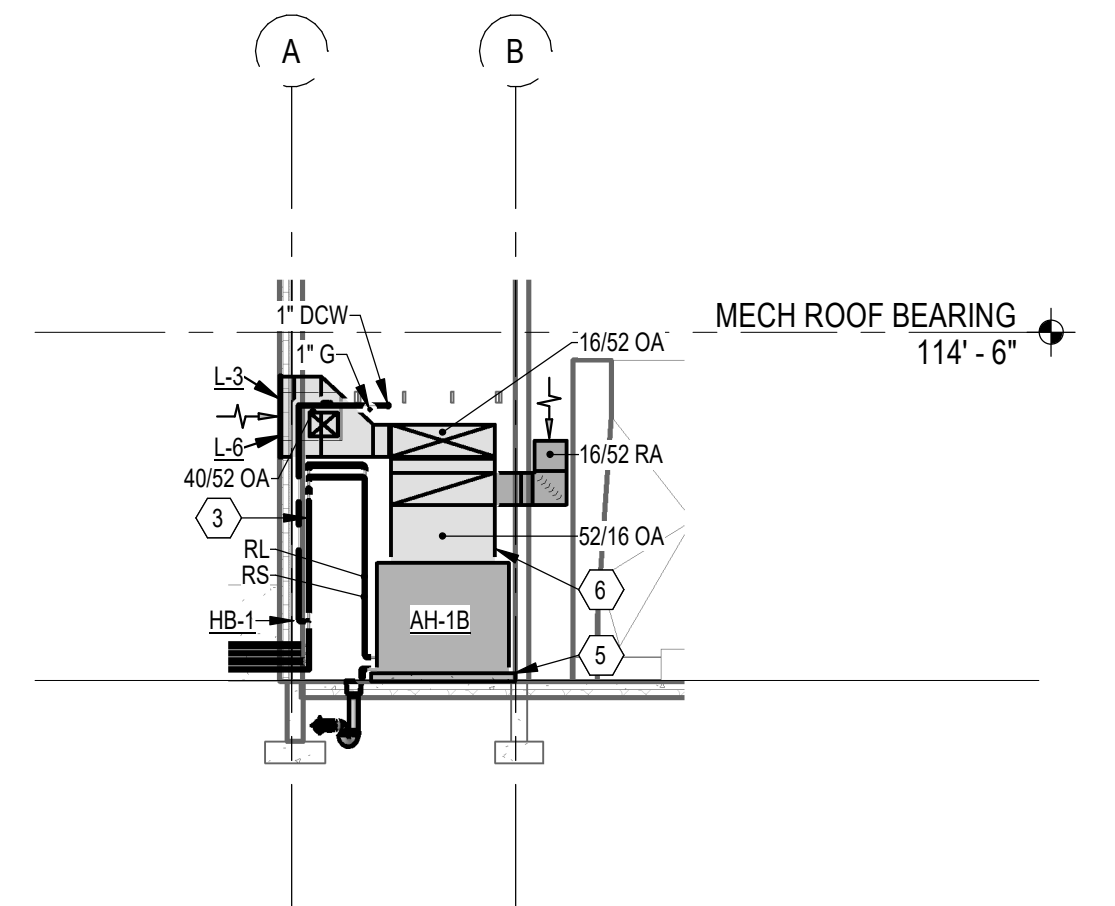
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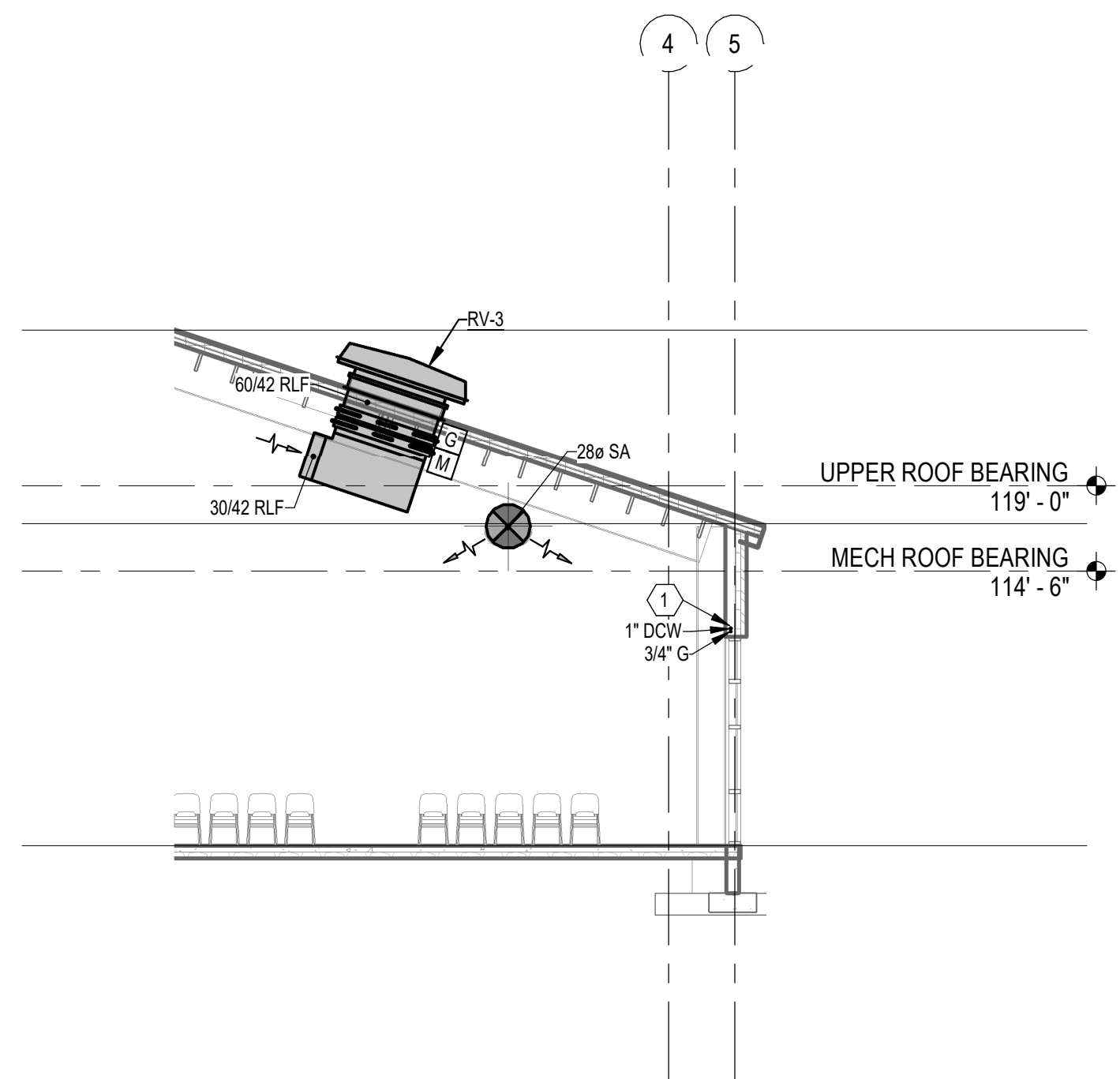
5 EXTERIOR (RTU-1) ISO  
SCALE: NONE



1 MECHANICAL ROOM SECTION - 01  
SCALE: NONE



2 MECHANICAL ROOM SECTION - 02  
SCALE: NONE



3 ACTIVITY ROOM SECTION  
SCALE: NONE

- 6 KEYED NOTES
1. ROUTE DCW AND G IN STUD SPACE OF WALL.
  2. REFRIGERANT SUCTION/LIQUID PIPING FROM CONDENSING UNIT TO AIR HANDLER OR COIL. SIZING AS RECOMMENDED BY MANUFACTURER.
  3. STACK AND SUPPORT RURS PIPING TO WALL WITH UNISTRUT.
  4. TRANSITION DUCT TO RTU.
  5. INSTALL MECHANICAL EQUIPMENT ON 4" CONCRETE PAD.
  6. TRANSITION DUCT TO AIR HANDLER AS REQUIRED. TYP.
  7. AIR HANDLER FURNACE FLUE EXHAUST. PROVIDE CODE COMPLIANT CAP. RISE A MINIMUM OF 3'-0" ABOVE ROOF LINE. 8-VENT TYPE FLUE.
  8. MOUNT MECHANICAL EQUIPMENT ON GALVANIZED STEEL SUPPORT. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL DETAILS.

- GENERAL NOTES
- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
- B. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.

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SECTIONS

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DUCT CONSTRUCTION DETAIL





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(SINGLE ZONE) ROOF TOP UNIT SCHEDULE (RTU) ①②																																
PLAN CODE	AREA SERVED	NOMINAL TONS	MIN OA (CFM)	SEER	SUPPLY FAN			COOLING			HEATING CAPACITY							FILTER	ECONOMIZER	RELIEF	AIRFLOW MEASURING	ELECTRICAL				CONTROLS	MAX DIMENSIONS				MANUFACTURER & MODEL NO.	REMARKS
					VOLUME (CFM)	ESP (IN WC)	OPERATING BHP	EAT (DBWB) (°F)	LAT (°F)	STAGES	CONDENSER AMBIENT TEMP. (°F)	SEA LEVEL INPUT (MBH)	SITE OUTPUT (MBH)	EAT (°F)	EFFICIENCY (%)	HEAT EXCHANGER	FUEL					VOLT / PH	MCA / MOCP (AMPS)	CONNECTION	DISCONNECT		LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	MAX OPERATING WT (LBS)		
RTU-1	EAST WING	5	490	14.1	2250	0.70	1.62	95/92	52	SINGLE	95	108	86.4	51.5	80	INDIRECT	NG	MERV 8	100%	YES	YES	208/3	3045	SINGLE	FACTORY	MANUFACTURER	75	47	42	980	CARRIER 48KCTA0824S-5A0A0	-

- ① PROVIDE WITH 18" HIGH JOB BUILT GALVANIZED STEEL SUPPORT.  
② SIDE DISCHARGE AND RETURN.

DX FAN COIL UNIT SCHEDULE (DFC) ①②																		
PLAN CODE	SYSTEM SERVED	CFM RANGE	CAPACITY		SEER	EER	AIR OPERATING RANGE		REFRIGERANT TYPE	DRAIN PIPE SIZE (IN)	MAX DIMENSIONS				ELECT MCA	ELECT VOLT/PH	MANUFACTURER & MODEL NO.	REMARKS
			SENS MBH	TOTAL MBH			MAX (°F) DBWB	MIN (°F) DBWB			LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT (LBS)				
DFC-1	ACU-1	320-425	12.2	18	18.5	9.9	90/73	66/59	R410A	5/8	36	10	12	40	1	208/1	MITSUBISHI PKA-A18HA7	-

- ① PROVIDE WITH CONDENSATE PUMP.  
② PROVIDE WITH WALL MOUNTED WIRELESS REMOTE.

AIR COOLED CONDENSING UNIT SCHEDULE (ACU)																
PLAN CODE	SYSTEM SERVED	SEER	NET COOLING (MBH)	AMBIENT TEMPERATURE		CAPACITY STEPS	ELECTRICAL			MAX DIMENSIONS				MANUFACTURER & MODEL NO	OPTIONS	REMARKS
				WINTER (°F)	SUMMER (°F)		VOLT/PH	MCA	MOCP	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT (LBS)			
ACU-1	DFC-1	18.5	18	-20	95	VARIABLE	208/1	11	28	33	12	25	110	MITSUBISHI PUY-A18NKA7-BS	①②③	-

- ① PROVIDE WITH 18" HIGH JOB BUILT GALVANIZED STEEL SUPPORT WITH OPEN BOTTOM TO ALLOW FOR DRAINAGE AND LIFT FROM SNOW ACCUMULATION.  
② PROVIDE WITH OPTIONAL LOW AMBIENT CONTROLS DOWN TO -20°F.  
③ PROVIDE WITH OPTIONAL WIND BAFFLES FOR LOW AMBIENT CONTROL.

EXHAUST FAN SCHEDULE (EF)																
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV	ESP @ ELEV	FAN RPM	MOTOR				SONES	DAMPER (GRAVITY OR MOTOR)	METHOD OF CONTROL	OPENING SIZE	MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
						BHP/WATTS	HP/WATTS	EFFICIENCY %	VOLT/PH							
EF-1	EAST WING	INLINE	850	0.75	2,180	0.28K	0.33K	36	115/1	12.5	MOTOR	OCCUPANCY	12X12	90	COOK 1009GN28D (VF)	①
EF-2	WARMING	INLINE	300	0.5	1,400	~84.8	~NA	76	115/1	3.0	MOTOR	THERMOSTAT	17X12	40	COOK GN-422	②


1. PROVIDE WITH FAN MOUNTED SPEED CONTROLLER.  
2. PROVIDE WITH LINE VOLTAGE PROGRAMMABLE THERMOSTAT.

RELIEF VENT SCHEDULE (RV) ①											
PLAN CODE	AREA/ FUNCTION	CFM (ALT)	PRESSURE DROP (IN WC)	THROAT SIZE		MAX DIMENSIONS			MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
				LENGTH (IN)	HEIGHT (IN)	LENGTH (IN)	HEIGHT (IN)	WIDTH (IN)			
RV-1	ACTIVITY/ RELIEF	4270	0.021	42	60	87	24	63	195	COOK 42X6XGR	PROVIDE WITH MOTORIZED DAMPER AND COUNTER BALANCED BACK DRAFT DAMPER
RV-2	ACTIVITY/ RELIEF	4270	0.021	42	60	87	24	63	195	COOK 42X6XGR	PROVIDE WITH MOTORIZED DAMPER AND COUNTER BALANCED BACK DRAFT DAMPER
RV-3	ACTIVITY/ RELIEF	4270	0.021	42	60	87	24	63	195	COOK 42X6XGR	PROVIDE WITH MOTORIZED DAMPER AND COUNTER BALANCED BACK DRAFT DAMPER

- ① PROVIDE WITH 6" CURB.

ELECTRIC HEATER SCHEDULE (EH)									
PLAN CODE	ELECTRICAL				CFM (ALT)	MOUNTING	LOCATION	MANUFACTURER & MODEL NO.	REMARKS
	TYPE	TOTAL KW	VOLT/PH	MAX AMPS					
EH-1	WALL	4	208/1	19.2	100	2' AFF	VESTIBULE 108	QMARK AVH4408F	①
EH-2	WALL	4	208/1	19.2	100	2' AFF	VESTIBULE 109	QMARK AVH4408F	①
EH-3	WALL	2	208/1	9.6	100	2' AFF	RISER ROOM 110	QMARK AVH4408F	①
EH-4	WALL	4	208/1	19.2	100	2' AFF	STORAGE 112	QMARK AVH4408F	①
EH-5	CEILING	3	208/1	14.4	150	CEILING	RESTROOM 106	QMARK EFF4004	①
EH-6	CEILING	3	208/1	14.4	150	CEILING	RESTROOM 105	QMARK EFF4004	①
EH-7	CEILING	3	208/1	14.4	150	CEILING	RESTROOM 105	QMARK EFF4004	①
EH-8	HUNG	10	208/1	48	650	8.5' AFF	MECHANICAL 113	QMARK MUH108	

- ① THERMOSTAT IS INTEGRAL TO THE UNIT.

AIR DEVICE SCHEDULE												<div>PLAN CODE</div> <div> GRILLE CFM</div>	
PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	CEILING TYPE (NOTE 2)	MAX CFM	MAX TP (IN WC)	NC LEVEL MAX	MIN THROW T50 (FT)	4-WAY MIN THROW T50)	2-WAY MIN THROW T50)	MANUFACTURER & MODEL NO.	REMARKS	
S1-04	DIFFUSER SUPPLY	24"x24"	12"x0	MATCH CEILING	390	0.065	15	-	10	-	PRICE SPD		
S2-03	DIFFUSER SUPPLY	12"x12"	10"x0	MATCH CEILING	300	0.059	15	-	19	-	PRICE SMD		
S2-04	DIFFUSER SUPPLY	15"x15"	12"x0	MATCH CEILING	400	0.068	15	-	21	-	PRICE SMD		
S4-01	DRUM SUPPLY	10"x18"	10"x18"	DUCT MINTD	640	0.085	22	70	-	-	PRICE HCD		
E1-02	PERFORATED EXHAUST	16"x16"	8"x8"	MATCH CEILING	220	0.042	*	-	-	-	PRICE PDOR		
E1-03	PERFORATED EXHAUST	16"x16"	10"x10"	MATCH CEILING	350	0.042	*	-	-	-	PRICE PDOR		
R1-03	PERFORATED RETURN	16"x16"	10"x10"	MATCH CEILING	350	0.042	*	-	-	-	PRICE PDOR		
R2-08	PERFORATED RETURN	12"x24"	10"x16"	MATCH CEILING	520	0.083	*	-	-	-	PRICE PDR		

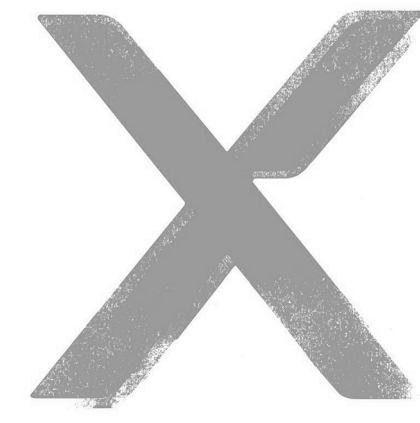
1. RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 8' CEILING.

2. VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.

\* NC RATING BELOW 15.

LOUVER SCHEDULE (L)					
PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	MANUFACTURER & MODEL NO.
L-1	850	1,150	0.7	12X20	RUSKIN ELF637SDX
L-2	300	850	0.4	12X12	RUSKIN ELF637SDX
L-3	6,400	800	8.1	52X40	RUSKIN ELF637SDX
L-4	6,400	800	8.1	52X40	RUSKIN ELF637SDX
L-5	NA	NA	1.14	28X24	RUSKIN ELF637SDX
L-6	NA	NA	1.14	28X24	RUSKIN ELF637SDX

MOTORIZED DAMPER SCHEDULE (D)					
PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	DUTY
D-1	850	1,000	0.85	12X20	FULLY OPEN/CLOSE
D-2	300	600	0.5	12X12	FULLY OPEN/CLOSE
D-3	6,400	890	7.2	52X40	MODULATING
D-4	6,400	890	7.2	52X40	MODULATING
D-5	4,270	490	8.75	60X42	MODULATING
D-6	4,270	490	8.75	60X42	MODULATING
D-7	4,270	490	8.75	60X42	MODULATING



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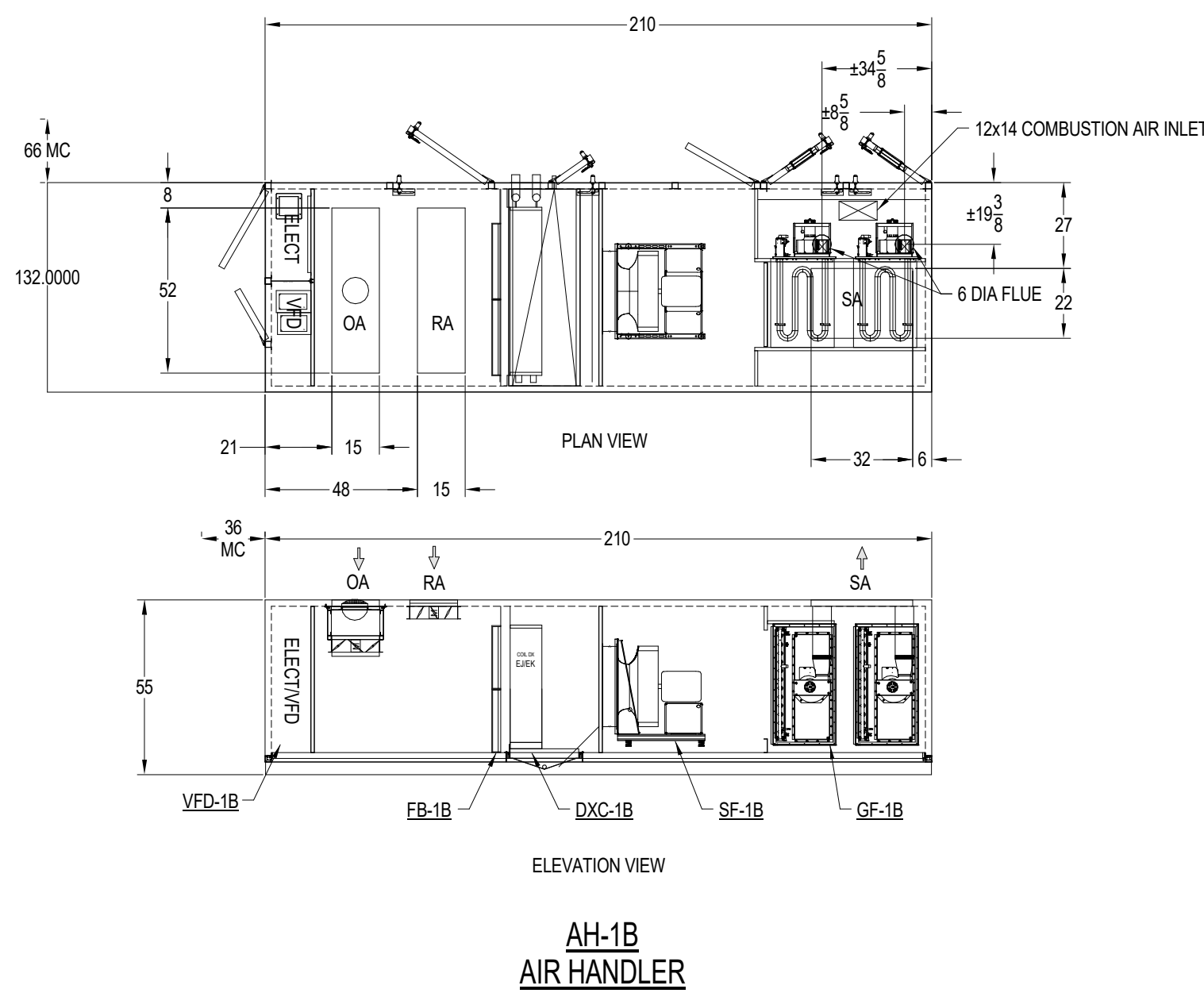
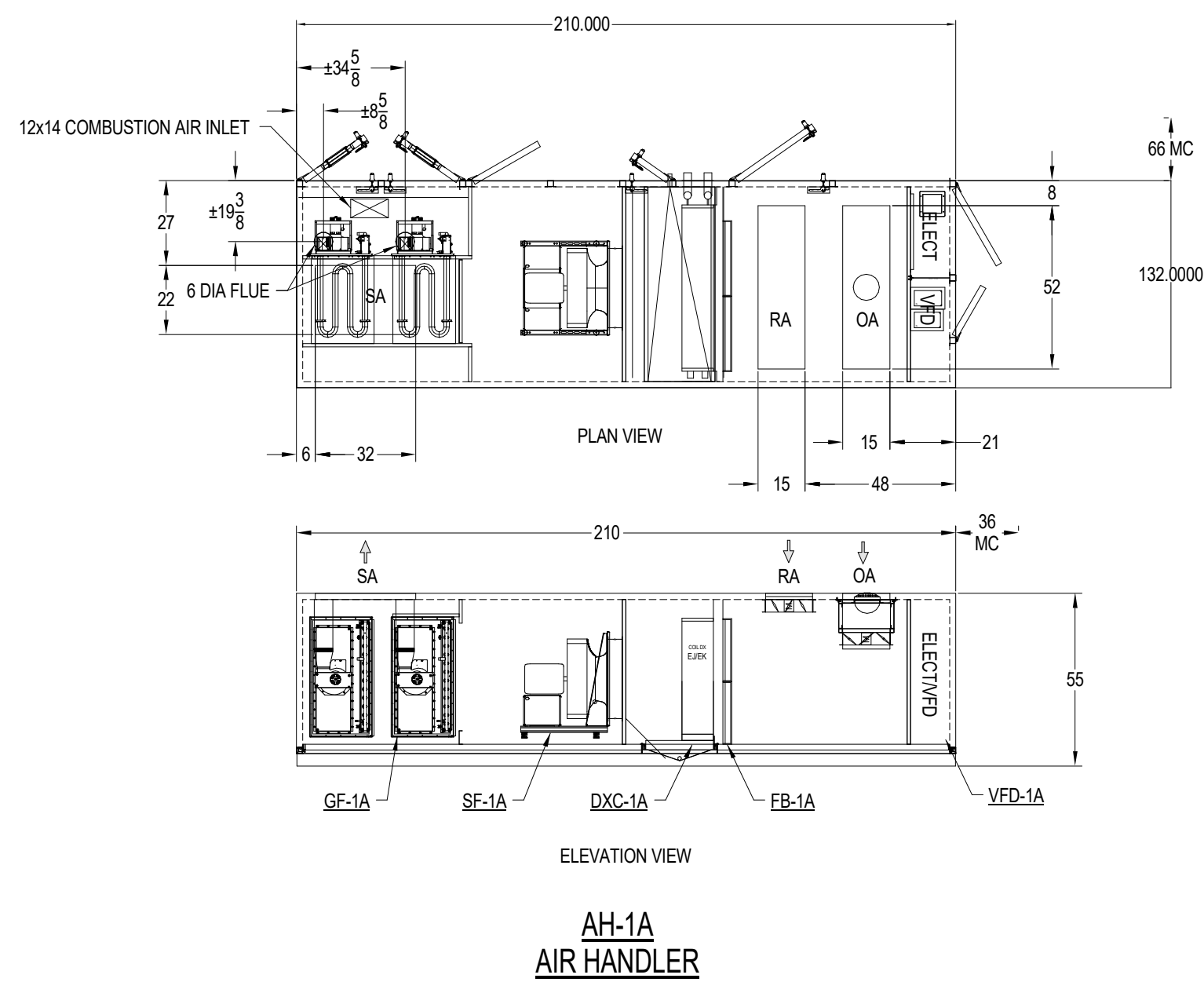
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SCHEDULES

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AIR HANDLER (AH)											
PLAN CODE	CFM	MIN OSA (CFM)	ESP (IN WC)	MAX OVERALL DIMENSIONS (IN)			MAX WEIGHT (LBS)	ELECTRICAL			
				LENGTH	DEPTH	HEIGHT		VOLT / PH	MCAMCOP (AMPS)	CONNECTION	DISCONNECT
AH-1A	6,400	2,950	1.5	210	66	55	3,600	208/3	39/60	SINGLE	FACTORY
AH-1B	6,400	2,950	1.5	210	66	55	3,600	208/3	39/60	SINGLE	FACTORY
<div>1. HEIGHT INCLUDES 8" BASE RAIL</div> <div>2. MAX. BLADE WIDTH OF INDIVIDUAL MOTORIZED DAMPERS = 42"</div> <div>3. PERFORATED LINER, Z' PLENUM WALLS</div> <div>4. ALL ACCESS TO UNIT FOR SERVICE MAINTENANCE TO BE ONE SIDE. COORDINATE WITH EQUIPMENT AND SITE CONDITIONS</div> <div>5. PROVIDE WITH VIBRATION ISOLATOR PER DETAIL AND SPECIFICATION.</div>											

FILTER BANK (FB)						
PLAN CODE	MERV	MAX CLEAN PD (IN WC)	DESIGN PD (IN WC)	MAX OVERALL DIMENSIONS (IN)		
				LENGTH	HIGHT	DEPTH
FB-1A	8	0.30	0.5	24	24	2
FB-1B	8	0.30	0.5	24	24	2
<div>1. MERV RATINGS BASED ON ASHRAE 52.2</div> <div>2. MAXIMUM FLAT FACE VELOCITY = 500 FPM</div>						

GAS FURNACE (GF)									
PLAN CODE	AIR			HEATING			FUEL	MANUFACTURER & MODEL NO	REMARKS
	AIRFLOW RATE (CFM)	EAT (°F) DB	LAT (°F) DB	MAX APD (IN WC)	SEA LEVEL INPUT (MBH)	SITE OUTPUT (MBH)			
GF-1A	6,400	30.7	91.8	0.25	570	456	10.1	ANNEX HMG 300	-
GF-1B	6,400	30.7	91.8	0.25	570	456	10.1	ANNEX HMG 300	-

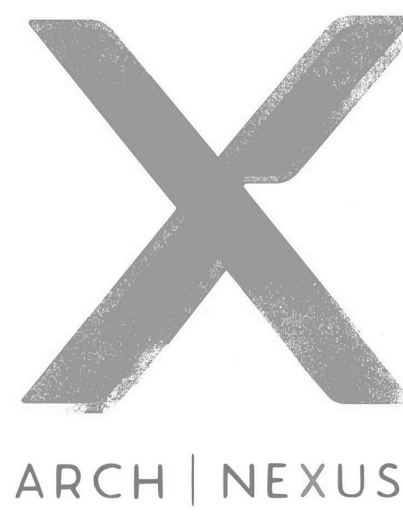
VARIABLE FREQUENCY DRIVE SCHEDULE (VFD) ①				
PLAN CODE	SERVICE	CONTROL INPUT	MANUFACTURER	REMARKS
VFD-1A	SF-1A	CONSTANT	ABB	PROVIDED BY AIR HANDLER MFG
VFD-1B	SF-1B	CONSTANT	ABB	PROVIDED BY AIR HANDLER MFG

1. VFD FOR TEST, BALANCE AND FAN START UP.

SUPPLY FAN SCHEDULE (SF)												
PLAN CODE	FAN							MOTOR				REMARKS
	TYPE	CONFIGURATION	FLOW (CFM)	ESP (IN WC)	TSP (IN WC)	MIN EFF (%)	EAT (°F)	MAX BHP	HP	VOLTI/PH	VOLUME CONTROL	
SF-1A	BI AF	PLUG	6,400	1.5	3.87	72	55	5.4	10	208/3	VFD	-
SF-1B	BI AF	PLUG	6,400	1.5	3.87	72	55	5.4	10	208/3	VFD	-

AIR COOLED CONDENSING UNIT SCHEDULE (ACU)																
PLAN CODE	SYSTEM SERVED	EER	NET COOLING (MBH)	SUCTION TEMP (°F)	AMBIENT TEMP (°F)	CIRCUIT QTY	ELECTRICAL			MAX DIMENSIONS				MANUFACTURER & MODEL NO	OPTIONS	REMARKS
							VOLT/PH	MCA	MOCF	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT (LBS)			
ACU-1A	AH-1A	9.65	166	38.3	95	DUAL	208/3	79	100	87	68	63	2,190	ANNEX AXCU-AHZ-S-15	-	-
ACU-1B	AH-1B	9.65	166	38.3	95	DUAL	208/3	79	100	87	68	63	2,190	ANNEX AXCU-AHZ-S-15	-	-

DX COOLING COIL SCHEDULE (DXC)																				
PLAN CODE	AREA OR SYSTEM SERVED	CFM @ ELEV	CAPACITY		FACE VELOCITY (FPM)	MAX AIR PD (IN WC)	AIR SIDE		REFRIGERANT		ROWS	FPI	CIRCUITS	NO OF DISTRIBUTORS PER COIL	MAX DIMENSIONS				MANUFACTURER & MODEL NO	REMARKS
			SENS MBH	TOTAL MBH			EAT (°F) DB WB	LAT (°F) DB WB	TYPE	SAT SUCTION TEMP (°F)					WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)	OPERATING WT (LBS)		
DXC-1A	AH-1A	6,400	151	162	500	0.26	83.7/61.3	55/51.1	R410A	40.3	4	8	8	29	51	36.25	10	170	ANNEX 12036.25X51-8-4-W-Z-R	-
DXC-1B	AH-1B	6,400	151	162	500	0.26	83.7/61.3	55/51.1	R410A	40.3	4	8	8	29	51	36.25	10	170	ANNEX 12036.25X51-8-4-W-Z-R	-



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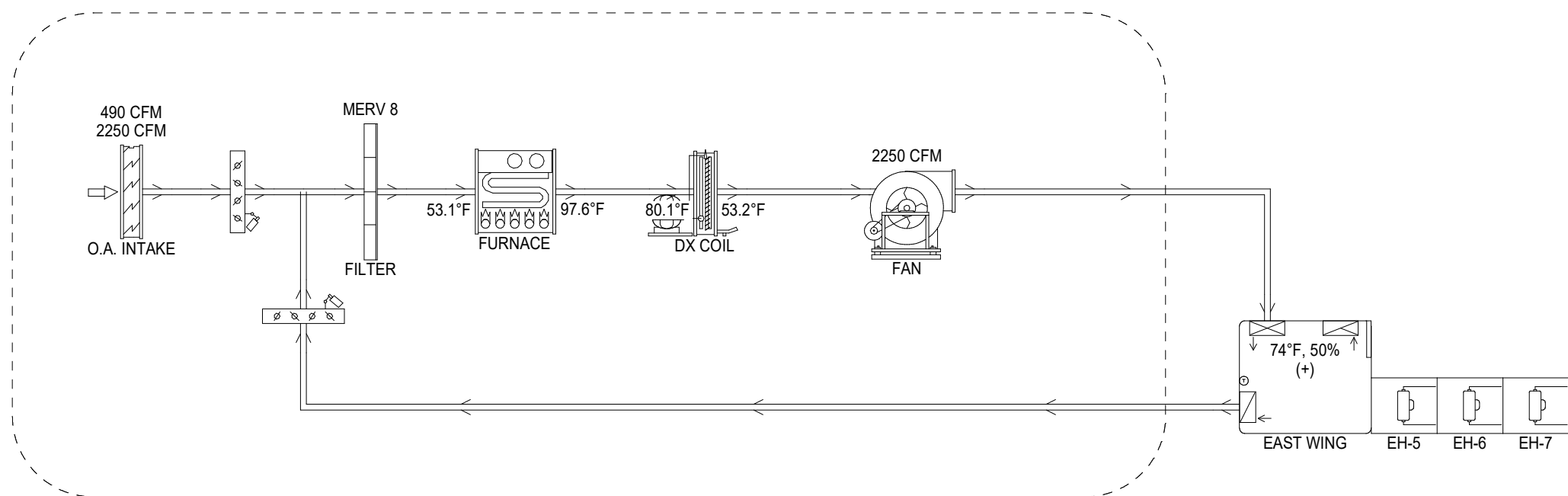
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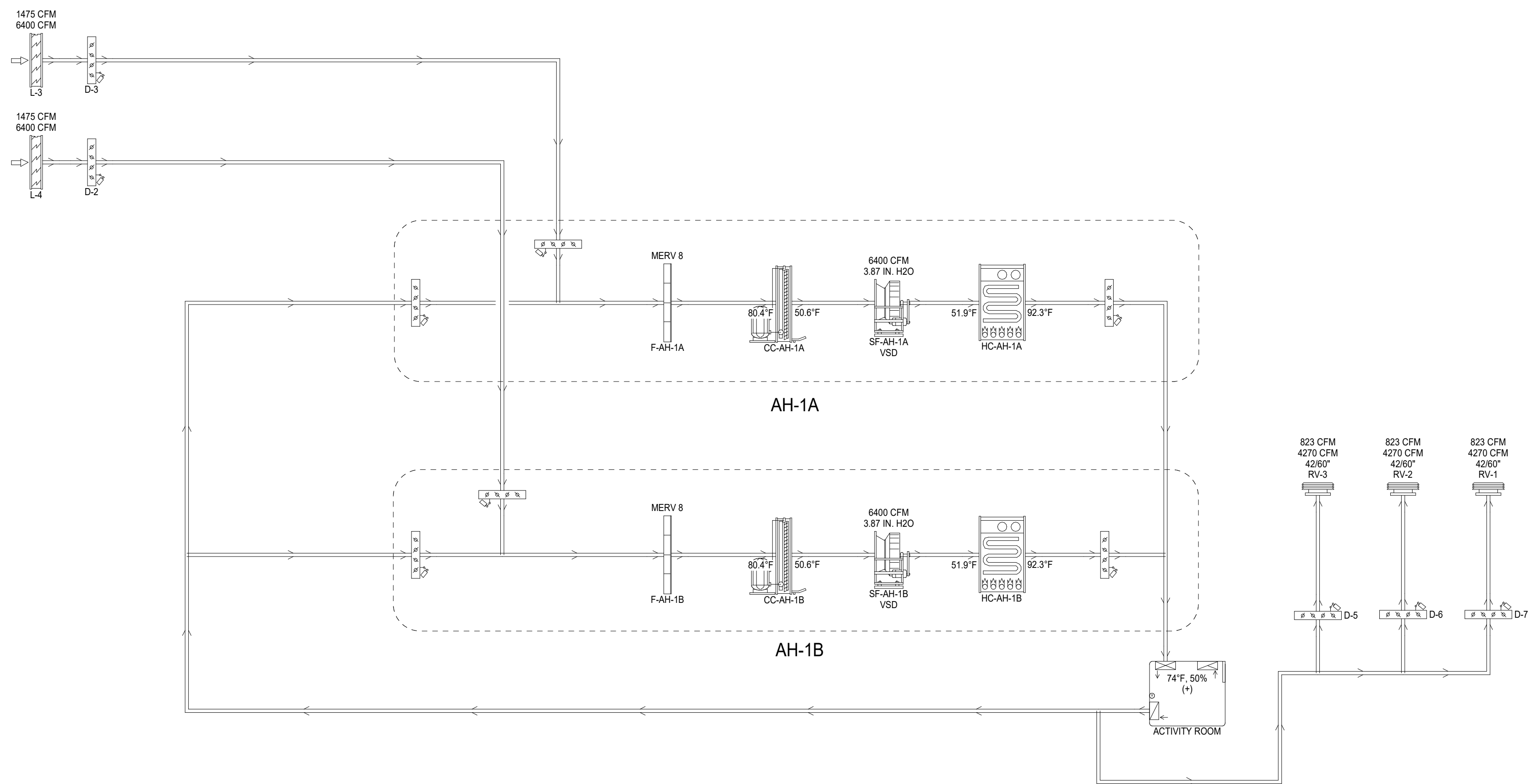
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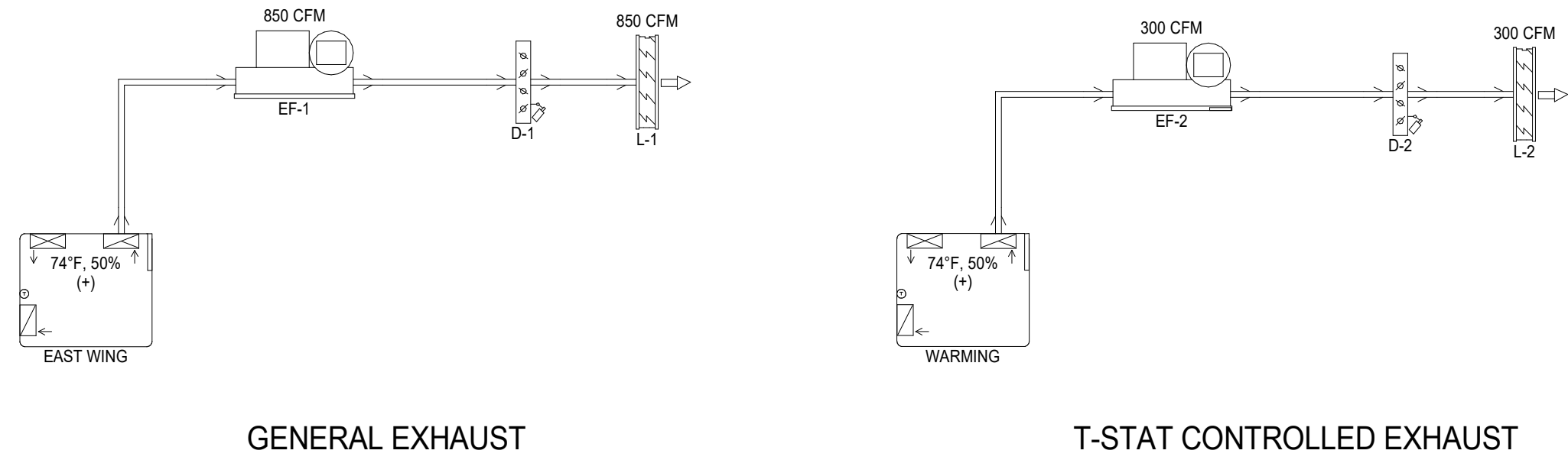
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RTU-1

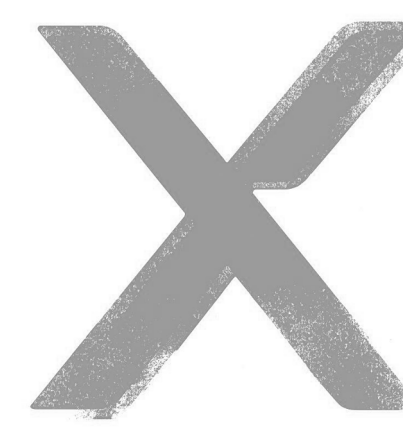


1 MECHANICAL AIRFLOW SCHEMATICS  
SCALE: NONE



GENERAL EXHAUST

T-STAT CONTROLLED EXHAUST

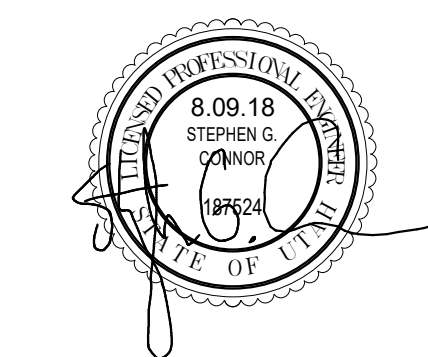


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MECHANICAL  
SCHEMATICS

M701



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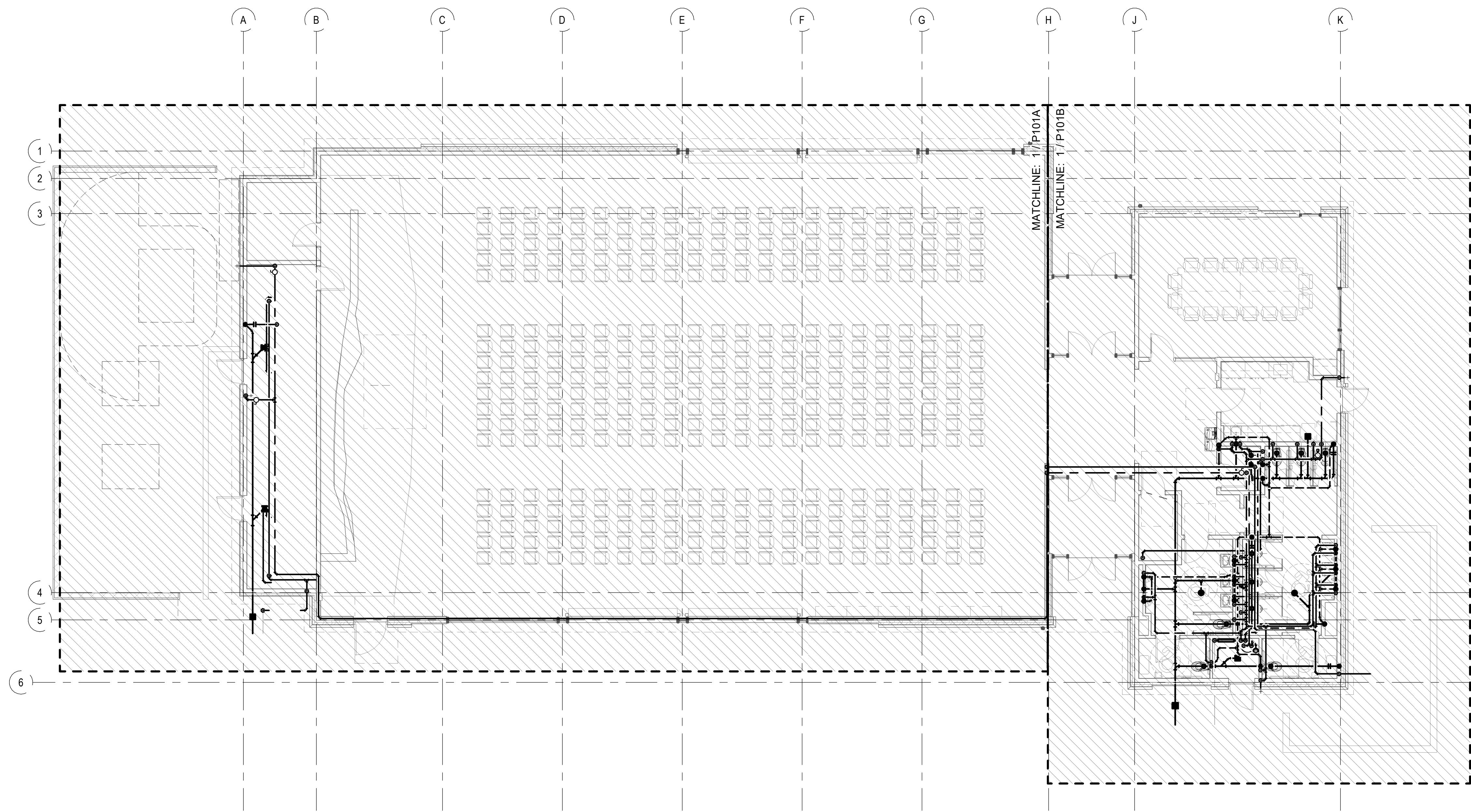
2

3

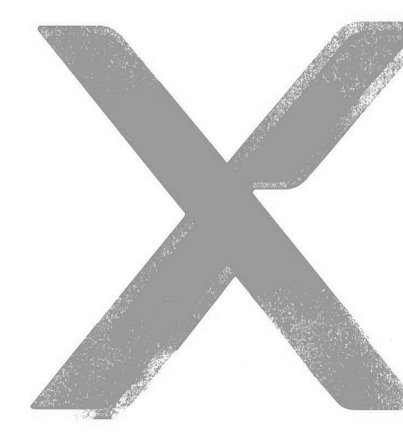
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5

6



1 LEVEL 01 - PLUMBING OVERALL FLOOR PLAN  
SCALE: 1/8" = 1'-0"

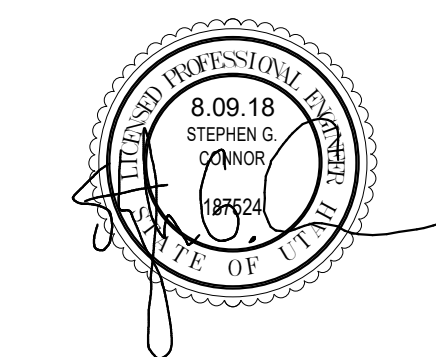


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# Date Revision

**CONSTRUCTION  
DRAWINGS**

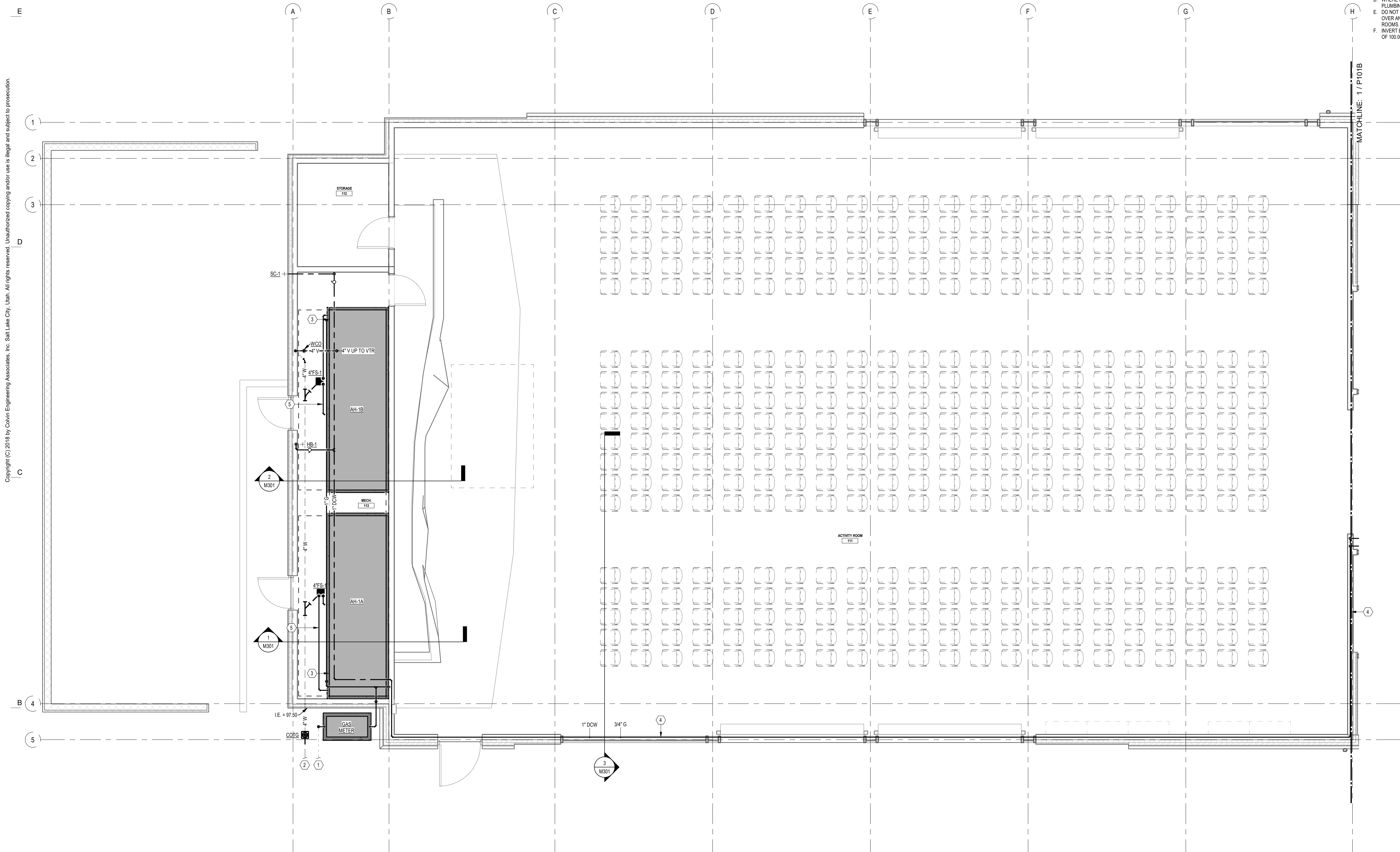
NEXUS PROJ. #: 18065  
CHECKED BY: BRC  
DRAWN BY: CEA  
DATE: 08.09.18

**PLUMBING  
OVERALL PLAN**

**P101**

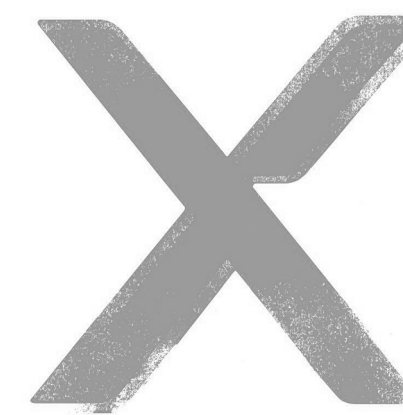


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- KEYED NOTES**
1. NATURAL GAS FEED. SEE CIVIL DRAWINGS FOR CONTINUATION.
  2. BUILDING SEWER. SEE CIVIL DRAWINGS FOR CONTINUATION.
  3. PROVIDE 2 PSI TO 4 OZ PRESSURE REGULATOR AT GAS FIRED MECHANICAL EQUIPMENT.
  4. ROUTE DOW AND G IN STUD WALL.
  5. EXTEND DRAIN FROM AIR HANDLER TO FLOOR SINK. PROVIDE SUPPORT AT FLOOR SLOPE PIPING AT 1/4" PER 1'-0". RUN PIPING NEATLY AND TIGHT. CONCRETE CURB. TYPICAL SIZE TO MATCH DRAIN OUTLET SIZE FROM AIR HANDLER.

- GENERAL NOTES**
- A. COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES BEFORE STARTING ANY WORK.
  - B. ALL SANITARY WASTE PIPING 2 1/2" AND SMALLER TO BE RUN AT 1/4" PER FOOT SLOPE. PIPE 3" AND LARGER RUN AT 1/8" PER FOOT SLOPE.
  - C. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
  - D. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
  - E. DO NOT ROUTE OR LOCATE ANY PLUMBING PIPING OR EQUIPMENT OVER ANY ELECTRICAL EQUIPMENT, IDF, MDF, AND COMMUNICATION ROOMS.
  - F. INVERT ELEVATION IS BASED OFF ARCHITECTURAL LEVEL 1 ELEVATION OF 100.00'.



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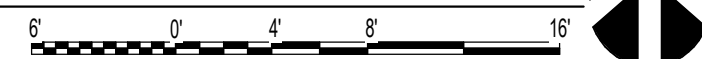
**CONSTRUCTION DRAWINGS**

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**PLUMBING FLOOR PLAN - AREA A**

**P101A**

**1 LEVEL 01 - PLUMBING ENLARGED FLOOR PLAN - AREA A**  
SCALE: 1/4" = 1'-0"

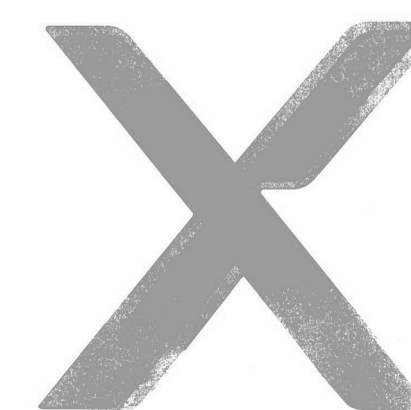


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## KEYED NOTES

- 1 BUILDING SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2 DOMESTIC WATER FEED, SEE CIVIL DRAWINGS FOR CONTINUATION.
- 3 PROVIDE 2 PSI TO 4.02 PRESSURE REGULATOR AT GAS FIRED MECHANICAL EQUIPMENT.
- 4 UNDERGROUND PIPE AT MINIMUM DEPTH OF 48" BELOW FINISH GRADE.
- 5 ROUTE DCW AND G IN STUD WALL.
- 6 DRAIN CONDENSATE TO FLOOR SINK, ROUTE DRAIN DOWN IN WALL AND EXIT WALL AT 6" ABOVE SERVICE SINK RIM.



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## GENERAL NOTES

- A. COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADE BEFORE STARTING ANY WORK.
- B. ALL SANITARY WATER PIPING 2" I.D. AND SMALLER TO BE RUN AT 1/4" PER FOOT SLOPE. PIPE 3" AND LARGER RUN AT 1/8" PER FOOT SLOPE.
- C. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUT OFF VALVES, ETC.
- D. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- E. DO NOT ROUTE OR LOCATE ANY PLUMBING PIPING OR EQUIPMENT OVER ANY ELECTRICAL EQUIPMENT, IDF, MDF, AND COMMUNICATION ROOMS.
- F. INVERT ELEVATION IS BASED OFF ARCHITECTURAL LEVEL 1 ELEVATION OF 100.00'.

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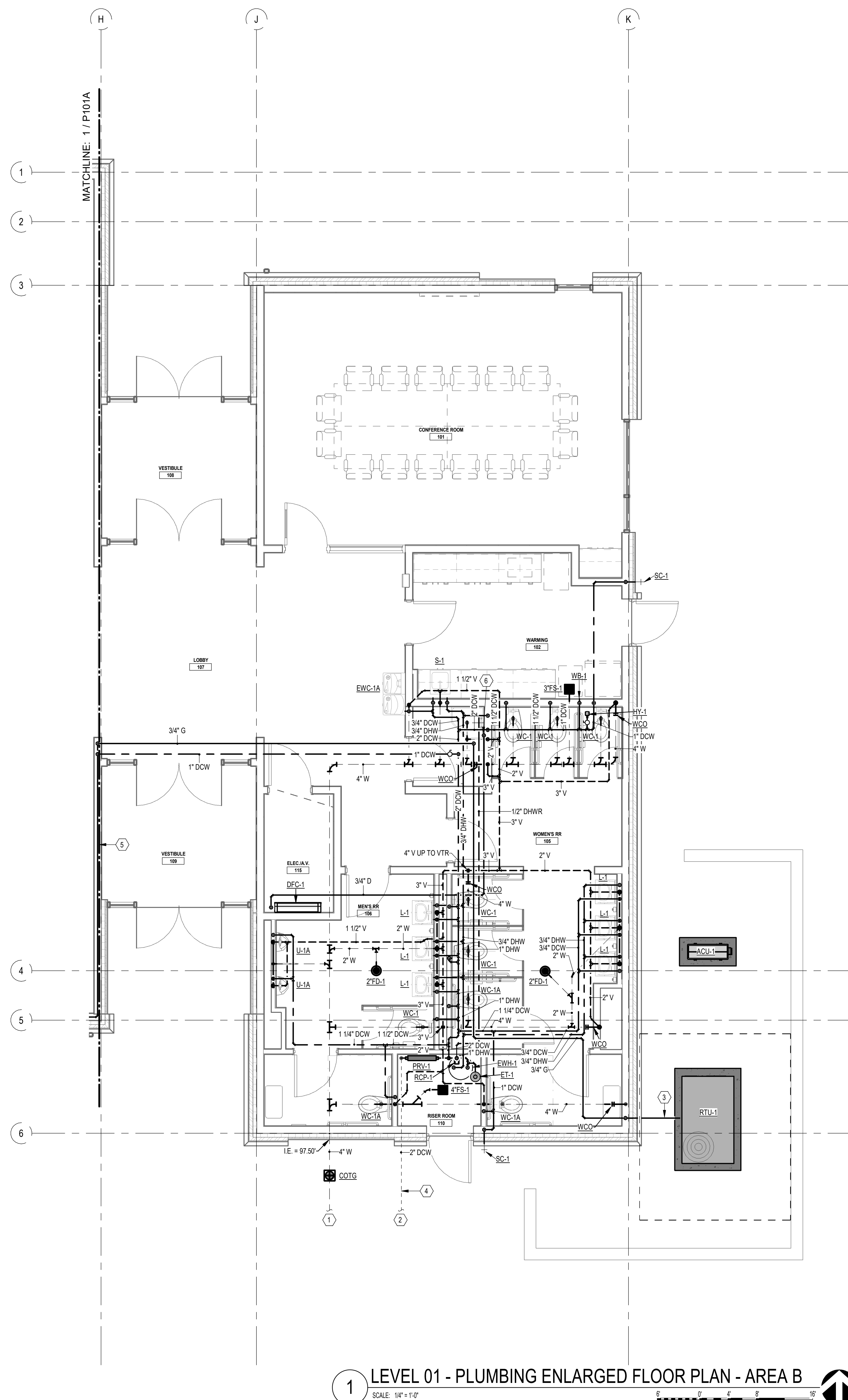
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## CONSTRUCTION DRAWINGS

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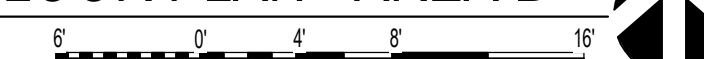
## PLUMBING FLOOR PLAN - AREA B

# P101B

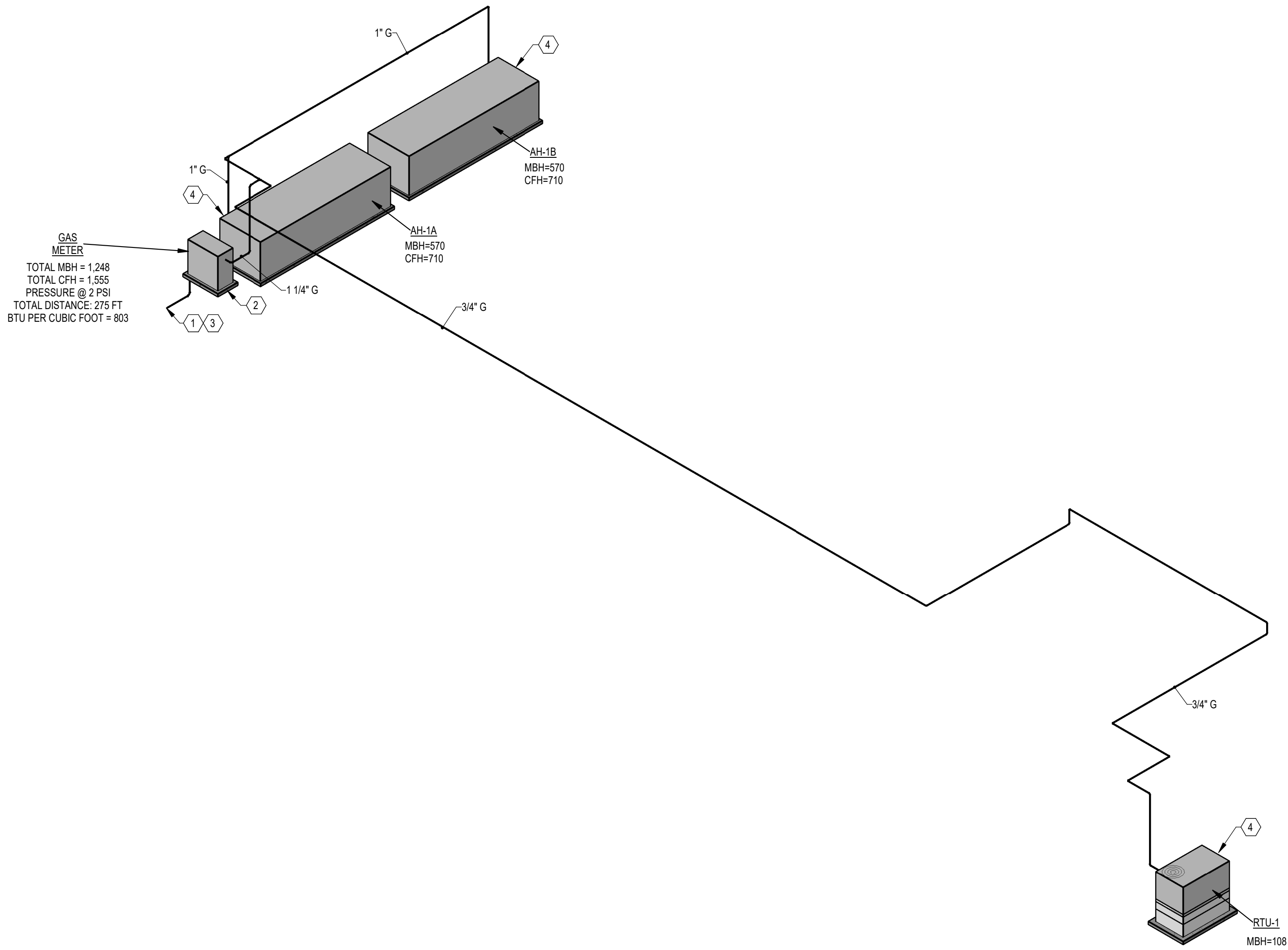


LEVEL 01 - PLUMBING ENLARGED FLOOR PLAN - AREA B

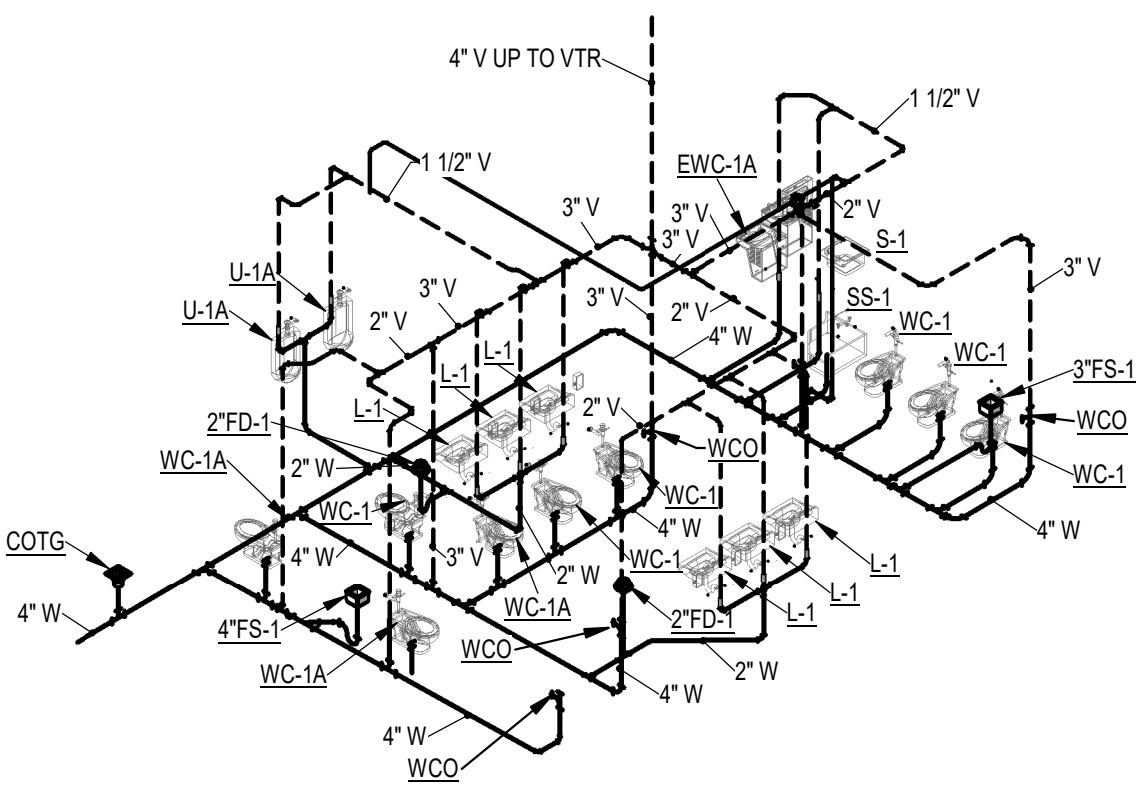
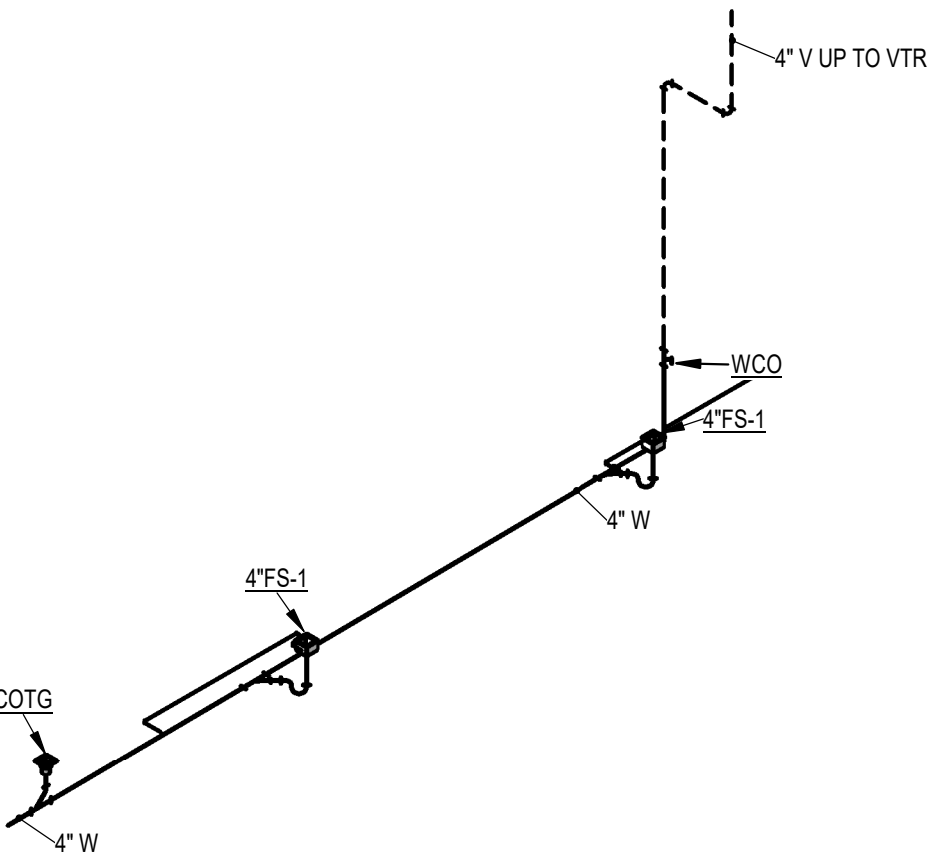
SCALE: 1/4" = 1'-0"







1 NATURAL GAS SCHEMATIC  
SCALE: NONE



2 WASTE AND VENT ISOMETRIC  
SCALE: NONE

- 6 | KEYED NOTES
- 1 NATURAL GAS FEED. SEE CIVIL DRAWINGS FOR CONTINUATION.
  - 2 PROVIDE 4" CONCRETE CURB FOR GAS METER. COORDINATE SIZE AND LOCATION WITH GAS COMPANY AND EQUIPMENT.
  - 3 UNDERGROUND PIPE AT MINIMUM DEPTH OF 48" BELOW FINISH GRADE.
  - 4 PROVIDE 2 PSI TO 4 OZ PRESSURE REGULATOR AT GAS FIRED MECHANICAL EQUIPMENT.

- GENERAL NOTES
- A. COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADE BEFORE STARTING ANY WORK.
  - B. ALL SANITARY WASTE PIPING 2 1/2" AND SMALLER TO BE RUN AT 1/4" PER FOOT SLOPE. PIPE 3" AND LARGER RUN AT 1/8" PER FOOT SLOPE.
  - C. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
  - D. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
  - E. DO NOT ROUTE OR LOCATE ANY PLUMBING PIPING OR EQUIPMENT OVER ANY ELECTRICAL EQUIPMENT, IDF, MDF, AND COMMUNICATION ROOMS.
  - F. INVERT ELEVATION IS BASED OFF ARCHITECTURAL LEVEL 1 ELEVATION OF 100.00.

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PLUMBING  
SCHEMATICS

P201



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**501**





E

D

C

B

A

ELECTRIC WATER HEATER SCHEDULE (EWH)											
PLAN CODE	CAP (GAL)	RECOVERY @ ELEV (GPH)	INPUT (KW)	TEMP RISE (°F)	MAX DIMENSIONS				MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
					DIA (IN)	HEIGHT (IN)	VOLTI/PH	AMPS			
EWH-1	50	21	8	90	21	61	208/3	38.5	550	AO SMITH ENT-50	①

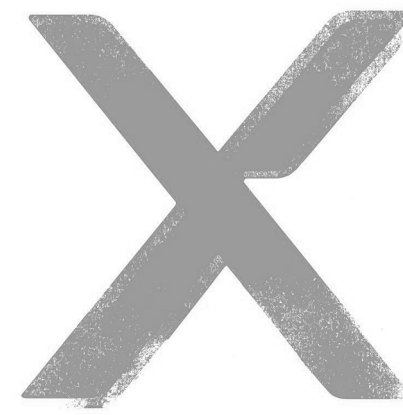
1. SIMULTANEOUS ELEMENT OPERATION. 2 ELEMENTS AT 4 KW EACH.

EXPANSION TANK SCHEDULE (ET)											
PLAN CODE	SYSTEM SERVED	WATER TEMP (°F)	% GLYCOL	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PRE-CHARGE (PSI)	MAX DIMENSIONS			MANUFACTURER & MODEL NO	REMARKS
							DIA (IN)	HEIGHT (IN)	OPERATING WT (LBS)		
ET-1	DHW	140	N/A	2.1	0.9	55	10	11	35	BIG PTAS	-

PUMP SCHEDULE (RCP)													
PLAN CODE	TYPE	DUTY	FLOW (GPM)	PRESSURE (FT)	MAX ALLOWABLE BHP	FLUID	FLUID TEMPERATURE RANGE	SIZE (IN)	MOTOR				REMARKS
									SIZE (WATTS)	SPEED (RPM)	VOLTI/PH	VFD	
RCP-1	IN-LINE	RECIRC	0.5	11.2	N/A	DHW	230	1/2	90	3000	115/1	NO	① ②

1. LEAD FREE BRONZE CONSTRUCTION.  
2. PROVIDE WITH TC-1 AUTOMATIC TIMER KIT.

PLAN CODE	DISCRPTION	ROUGH-IN SIZE					REMARKS
		C.W.	H.W.	TEMPERED	WASTE	VENT	
EW-1A	BI LEVEL, WALL MOUNT ELECTRIC WATER COOLER, ADA COMPLIANT, INCLUDE BOTTLE FILLER	3/8"	-	-	1-1/2"	1-1/2"	ELKAY #LZSTL8WSLK (ADA) STAINLESS STEEL 8.0 GPM, F.L.A. = 6.115 VTI PH 60 HZ, BOTTLE FILLER #LZWSR
FCO	FLOOR CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4000, CAST IRON ADJUSTABLE BODY, ABS PLUG, VANDAL PROOF SECURITY SCREWS, OR EQUAL.
FD-1	FLOOR DRAIN	-	-	-	SEE PLANS	1-1/2"	J.R. SMITH MANUFACTURING COMPANY FIG. 2000YANBU DUCT CAST IRON FLOOR DRAIN. SEE PLAN FOR OUTLET SIZE. STRAINER GRATE MUST BE HEEL PROOF. PROVIDE WITH TRAP GUARD OR EQUAL.
FS-1	FLOOR SINK	-	-	-	SEE PLANS	2"	J.R. SMITH SERIES 3001, WITH TRAP GUARD AND DEEP SEAL TRAP.
HB-1	HOSE BIBB (INDOOR)	3/4"	-	-	-	-	JAY R. SMITH SERIES 5873, INTEGRAL VACUUM BREAKER.
HY-1	HAMMER ARRESTOR	-	-	-	-	-	HAMMER ARRESTER, JR SMITH FIGURE 5005 FIXTURE RATING 1-11, FIGURE 5010 FIXTURE RATING OF 12-32, FIGURE 5020 FIXTURE RATING 33-60 & FIGURE 5030 FIXTURE RATING 61-113.
L-1	RECTANGULAR WALL MOUNT LAVATORY ADA, BATTERY POWERED SENSOR TYPE FAUCET, 0.5 GPM FLOW, WITH MIXING VALVE	1/2"	1/2"	-	1-1/2"	1-1/2"	KOHLER "KINGSTON" WALL MOUNT K-2007 FAUCET, KOHLER K-7515 DRAIN, KOHLER K-8820 P-TRAP, KOHLER K-8000
S-1	SINGLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, UNDER COUNTER MOUNT SINK, GOOSENECK RIGID/SWING SPOUT WITH WRIST BLADES.	1/2"	1/2"	-	1-1/2"	1-1/2"	BOWL: JUST SL-2017-A-GR, 18 GAUGE, UNDER COUNTER MOUNTED FAUCET, CHICAGO FAUCETS 786-685VPCABCP, 5-3/8" SPOUT, 8" FIXED CENTER, 1.0 GPM LAMINAR OUTLET AND PLAIN END SPOUT RING, 4" WRIST BLADE STRAINER, JUST L-35 STAINLESS STEEL CUP STRAINER.
SC-1	SILLCOCK (OUTDOOR FREEZE PROOF)	3/4"	-	-	-	-	JAY R. SMITH SERIES 5600OT, NON FREEZE HYDRANT, INTEGRAL VACUUM BREAKER, VANDAL RESISTANT
SS-1	PRECAST TERRAZZO, 36" LONG, 36" WIDE, 3" GRID DRAIN AND FAUCET WITH VACUUM BREAKER, STOPS, TOP BRACE, CHROME FINISH.	3/4"	3/4"	-	2"	2"	SINK: ACORN TRH-363606-NC FAUCET: KOHLER K-8807
U-1A	URINAL, ADA COMPLIANT, WALL MOUNT, BATTERY POWERED SENSOR TYPE FLUSH VALVE, VITREOUS CHINA, 1.25 GPF	1"	-	-	2"	2"	URINAL: KOHLER BAROON K-4291-ET FLUSH VALVE: KOHLER K-10949-SV
WB-1	WATER BOX	1/2"	-	-	-	-	DATNEY 38586, PROVIDE WITH BACK FLOW PREVENTOR
WC-1	WATER CLOSET, FLOOR MOUNTED, BATTERY POWERED SENSOR TYPE FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.28 GPF	1"	-	-	4"	2"	KOHLER "WELLCOMME ULTRA" BOWL K-86053-B SEAT: KOHLER K-4731 COMMERCIAL HEAVY-DUTY FLUSH VALVE: KOHLER K10956-SV COLOR: WHITE
WC-1A	WATER CLOSET, ADA COMPLIANT, FLOOR MOUNT, BATTERY POWERED SENSOR TYPE FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.28 GPF	1"	-	-	4"	2"	KOHLER "HIGHCLIFF" BOWL K-86057 SEAT: KOHLER K-4731 COMMERCIAL HEAVY-DUTY FLUSH VALVE: KOHLER K10956-SV COLOR: WHITE
WCO	WALL CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4000, CAST IRON CLEANOUT TEE, ABS PLUG, STAINLESS STEEL COVER WITH VANDAL PROOF SECURITY SCREWS, OR EQUAL.



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CONSTRUCTION  
DRAWINGS

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PLUMBING  
SCHEDULES

P601







ELECTRICAL FLOOR BOX SCHEDULE						
TYPE	DESCRIPTION		MFR.	CATALOG NUMBER	PWR GANGS	L.V. GANGS
FB1	FURNITURE FEED FLOOR BOX ASSEMBLY. COORDINATE WITH ARCHITECT FOR COVER STYLE. REFER TO FLOOR PLANS FOR AMOUNT OF HOME-RUNS AND CAT-6 CABLES REQUIRED. REFER TO AV DRAWINGS FOR AV NEEDS.		LEGRAND	BFBF-OG		

Project Manager: Michèle Gutknecht						
FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MFR.	CATALOG NUMBER	VOLTS	TOTAL WATTS	LAMP
A1	1' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY.	PHILIPS DAY-BRITE	1EVC38L830-4-D-UNV-DIM + FMA14	120 V	29.5	3,800 LUMEN LED; 3000K CCT; 80+ CRI
A2	2' x 2' RECESSED LED FLAT PANEL; SOLID FRAME AND FROSTED ACRYLIC LENS; SFBA AND SCBA; 0-10V DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES MINIMUM.	FOCAL POINT	FTLE-22-ACS-2500L-30K-1C-UNV-LD1	120 V	27	2,500 LUMEN LED; 3000K CCT; 80+ CRI
A2E	2' x 2' RECESSED LED FLAT PANEL; SOLID FRAME AND FROSTED ACRYLIC LENS; SFBA AND SCBA; 0-10V DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES MINIMUM.	FOCAL POINT	FTLE-22-ACS-2500L-30K-1C-UNV-LD1-EM	120 V	27	2,500 LUMEN LED; 3000K CCT; 80+ CRI
A3	2' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY.	PHILIPS DAY-BRITE	2EVC54LH830-4-D-UNV-DIM	120 V	39.4	5,400 LUMEN LED; 3000K CCT; 80+ CRI
A3E	2' x 4' RECESSED LED BASKET FIXTURE; CURVED OPAL CENTER DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 80,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1100 LUMENS OVER 90 MINUTES MINIMUM.	PHILIPS DAY-BRITE	2EVC54LH830-4-D-UNV-DIM-EMLED	120 V	39.4	5,400 LUMEN LED; 3000K CCT; 80+ CRI
D1	4" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT; 54DEG MEDIUM BEAM; CLEAR REFLECTOR; SFBA AND SCBA; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY.	CONTECH LIGHTING	R4NC230K12D-C4322M-CLR	120 V	14	1,400 LUMEN LED; 3000K CCT; 80+ CRI
D1E	4" RECESSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT; 54DEG MEDIUM BEAM; CLEAR REFLECTOR; SFBA AND SCBA; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700 LUMENS OVER 90 MINUTES MINIMUM.	CONTECH LIGHTING	R4NC230K12D-ER-C4322M-CLR	120 V	14	1,400 LUMEN LED; 3000K CCT; 80+ CRI
HB1	COMPACT HIGH BAY LED LUMINAIRE; DIE-CAST ALUMINIUM HOUSING; PRECISION 120 DEGREE DEAM ANGLE; DIFFUSE LENS; SURFACE MOUNTED AT THE BOTTOM EDGE OF JOIST; 0-10V DIMMING; 100,000 HOUR (L70); 5 YEAR WARRANTY.	GE CURRENT	ABV2-0-1-E-48-D-N-V-SM-K-N-W	120 V	121	18,000 LUMEN LED; 3000K CCT; 80+ CRI
HB1E	COMPACT HIGH BAY LED LUMINAIRE; DIE-CAST ALUMINIUM HOUSING; PRECISION 120 DEGREE DEAM ANGLE; DIFFUSE LENS; SURFACE MOUNTED AT THE BOTTOM EDGE OF JOIST; 0-10V DIMMING; 100,000 HOUR (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF PRODUCING 1750LUMENS OVER 90 MINUTES MINIMUM.	GE CURRENT	ABV2-0-1-E-48-D-N-V-SM-K-N-W-EL1	120 V	121	18,000 LUMEN LED; 3000K CCT; 80+ CRI
OD1	4" RECESSED/LENSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT; CLEAR REFLECTOR AND CLEAR LOWER CONE; SFBA AND SCBA; WET LOCATION LISTED; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY.	CONTECH LIGHTING	R4NC230K12D-C4327-CLR-CLR	120 V	14	1,400 LUMEN LED; 3000K CCT; 80+ CRI
OD1E	4" RECESSED/LENSED LED DOWNLIGHT WITH TRIM AND FLANGE KIT; CLEAR REFLECTOR AND CLEAR LOWER CONE; SFBA AND SCBA; WET LOCATION LISTED; 0-10V DIMMING; 50,00 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700 LUMENS OVER 90 MINUTES MINIMUM.	CONTECH LIGHTING	R4NC230K12D-ER-C4327-CLR-CLR	120 V	14	1,400 LUMEN LED; 3000K CCT; 80+ CRI
OW1	LED WALL MOUNTED LUMINAIRE FOR OUTDOOR USE; 3000K COLOR TEMPERATURE. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700 LUMENS OVER 90 MINUTES MINIMUM. FINISH BY ARCHITECT.	BEGA	24373-K30-LED-SCBA	120 V	21.2	1,800 LUMEN LED; 3500CCT; 80+ CRI
OW1E	LED WALL MOUNTED LUMINAIRE FOR OUTDOOR USE; 3000K COLOR TEMPERATURE. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 700 LUMENS OVER 90 MINUTES MINIMUM. FINISH BY ARCHITECT. PROVIDE WITH BATTERY BACKUP CAPABLE OF PRODUCING 1000LUMENS OVER 90 MINUTES MINIMUM.	BEGA	24373-K30-LED-SCBA + EM	120 V	21.2	1,800 LUMEN LED; 3500CCT; 80+ CRI
S1Es	4" SUSPENDED LED STRIP; SYMMETRIC REFLECTOR; DROP LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH CHAIN HANGER SET. PROVIDE WITH EMERGENCY BATTERY CAPABLE OF PRODUCING 1100 LUMENS OVER 90 MINUTES MINIMUM.	PHILIPS DAY-BRITE	FSS440L830-UNV-DIM-EMLED + FKR-136	120 V	31	4,000 LUMEN LED; 3000K CCT; 80+ CRI
S1s	4" SUSPENDED LED STRIP; SYMMETRIC REFLECTOR; DROP LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH CHAIN HANGER SET.	PHILIPS DAY-BRITE	FSS440L830-UNV-DIM + FKR-136	120 V	31	4,000 LUMEN LED; 3000K CCT; 80+ CRI
S2Ew	2" WALL-MOUNTED LED STRIP; SYMMETRIC REFLECTOR; DROP LENS DIFFUSER; SFBA AND SCBA; 0-10V DIMMING; 100,000 HOURS (L70); 5 YEAR WARRANTY. PROVIDE WITH BATTERY BACKUP CAPABLE OF PRODUCING 1000 LUMENS OVER 90 MINUTES MINIMUM.	PHILIPS DAY-BRITE	FSS220L830-UNV-DIM-EMLED	120 V	18	3,000 LUMEN LED; 3000K CCT; 80+ CRI
W1	NARROW PROFILE WRAP RESTROOM VANITY FIXTURE; STEEL HOUSING AND ACRYLIC LENS; WALL MOUNTED; SFBA AND SCBA; 0-10V DIMMING; 150,000 HOURS (L70); 5 YEAR WARRANTY.	PRUDENTIAL LIGHTING	HSS-LED3-MO-3-SAL-YGW-SC-UNV-SUR-D M10	120 V	16.5	1,875 LUMEN LED; 3000K CCT; 80+ CRI

LIGHT FIXTURE ABBREVIATION SCHEDULE		LIGHT FIXTURE GENERAL NOTES	
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.		1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.	
A.F.F.	ABOVE FINISH FLOOR	2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.	
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.	
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.	
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	5. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.	
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT		
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT		
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		

BIDDING REQUIREMENTS	
1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.	
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS <u>NOT</u> ALLOWED.	
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.	
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.	

PRIOR APPROVAL REQUIREMENTS	
1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.	
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.	
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.	
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL <u>WILL NOT</u> BE GIVEN ON ANY ITEM.	
5. IT IS <u>NOT</u> THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.	
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE <u>NOT</u> ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA <u>WILL NOT</u> BE APPROVED.	
7. SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.	
8. SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.	

LIGHTING SHOP DRAWING REQUIREMENTS	
1. REFER TO SPECIFICATIONS 260500, 265100 & 265600 (16001, 16510 & 16551).	
2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS.	
3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.	
4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.	
5. CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.	
6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE: ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.	
7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.	

EQUIPMENT SCHEDULE																		
UNIT	#	DESCRIPTION	LOAD				VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES			OCPD		REFERENCE NOTES		
			HP	FLA	MCA	VA					SETS	QTY	SIZE	EQUIP. GND.	TYPE	AMPS	STARTER DISCONNECT OTHER	REMARKS
ACU	1	AIR COOLED CONDENSING UNIT		0 A	11 A	0 VA	208 V	1	8.8 A	3/4"	1	2	12	12	CB	20 A	2A	
ACU	1A	AIR COOLED CONDENSING UNIT		0 A	79 A	0 VA	208 V	3	63.2 A	1"	1	3	3	8	CB	100 A	2A	
ACU	1B	AIR COOLED CONDENSING UNIT		0 A	79 A	0 VA	208 V	3	63.2 A	1"	1	3	3	8	CB	100 A	2A	
AH	1A	AIR HANDLER		0 A	39 A	0 VA	208 V	3	31.2 A	3/4"	1	3	8	10	CB	50 A	2A	
AH	1B	AIR HANDLER		0 A	39 A	0 VA	208 V	3	31.2 A	3/4"	1	3	8	10	CB	50 A	2A	
EF	1	EXHAUST FAN	0.33				120 V	1	9.8 A	3/4"	1	2	12	12	CB	20 A	4A	
EF	2	EXHAUST FAN	1.00				120 V	1	16.0 A	3/4"	1	2	12	10	CB	30 A	4A	
EH	1	ELECTRIC HEAT		0 A	19 A	0 VA	208 V	1	15.4 A	3/4"	1	3	8	10	CB	25 A	2A	
EH	2	ELECTRIC HEAT		0 A	19 A	0 VA	208 V	1	15.4 A	3/4"	1	2	12	10	CB	25 A	2A	
EH	3	ELECTRIC HEAT		0 A	10 A	0 VA	208 V	1	7.7 A	3/4"	1	2	12	12	CB	20 A	2A	
EH	4	ELECTRIC HEAT		0 A	19 A	0 VA	208 V	1	15.4 A	3/4"	1	2	12	10	CB	25 A	2A	
EH	5	ELECTRIC HEAT		0 A	14 A	0 VA	208 V	1	11.5 A	3/4"	1	2	12	12	CB	20 A	2A	
EH	6	ELECTRIC HEAT		0 A	14 A	0 VA	208 V	1	11.5 A	3/4"	1	2	12	12	CB	20 A	2A	
EH	7	ELECTRIC HEAT		0 A	14 A	0 VA	208 V	1	11.5 A	3/4"	1	2	12	12	CB	20 A	2A	
EH	8	ELECTRIC HEAT		0 A	48 A	0 VA	208 V	1	38.4 A	3/4"	1	2	6	10	CB	60 A	2A	
EW1	1	ELECTRIC WATER HEATER	39 A	0 A	0 VA	0 VA	208 V	3	38.5 A	3/4"	1	3	6	10	CB	50 A	2A	
RCP	1	PUMP		0 A	0 A	90 VA	120 V	1	0.8 A	3/4"	1	2	12	12	CB	15 A	4A	
RTU	1	ROOF TOP UNIT		0 A	30 A	0 VA	208 V	3	24.0 A	3/4"	1	3	10	10	CB	40 A	2A	

NOTES:

1. NON-FUSED DISCONNECT SWITCH

2. FUSED DISCONNECT SWITCH

3. BREAKER IN ENCLOSURE

4. MANUAL STARTER W/ THERMAL OVERLOAD

5. MAGNETIC STARTER

6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION

7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION

8. MAGNETIC STARTER/BREAKER COMBINATION

9. VARIABLE FREQUENCY DRIVE

10. REDUCED VOLTAGE STARTER

11. DIRECT CONNECTION

12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.

13. TWO-SPEED STARTER, COORDINATE W/ MOTOR TYPE

14. SOLID STATE SOFT STARTER

A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 26(16).

B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26(16).

C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16).

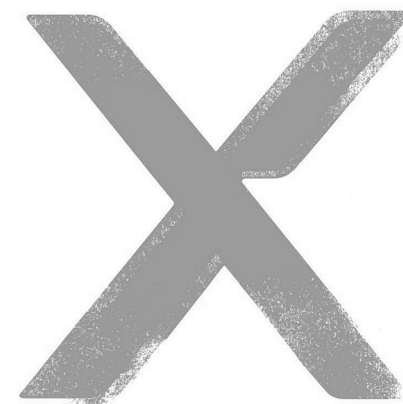
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.

CB = CIRCUIT BREAKER - THERMAL MAGNETIC

CKW = CHILLER KILOWATTS

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

SENSOR GENERAL NOTES	
1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.	
2. EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.	
3. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE FREE INSTALLATION.	
4. THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.	



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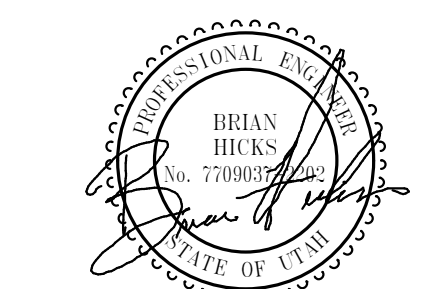
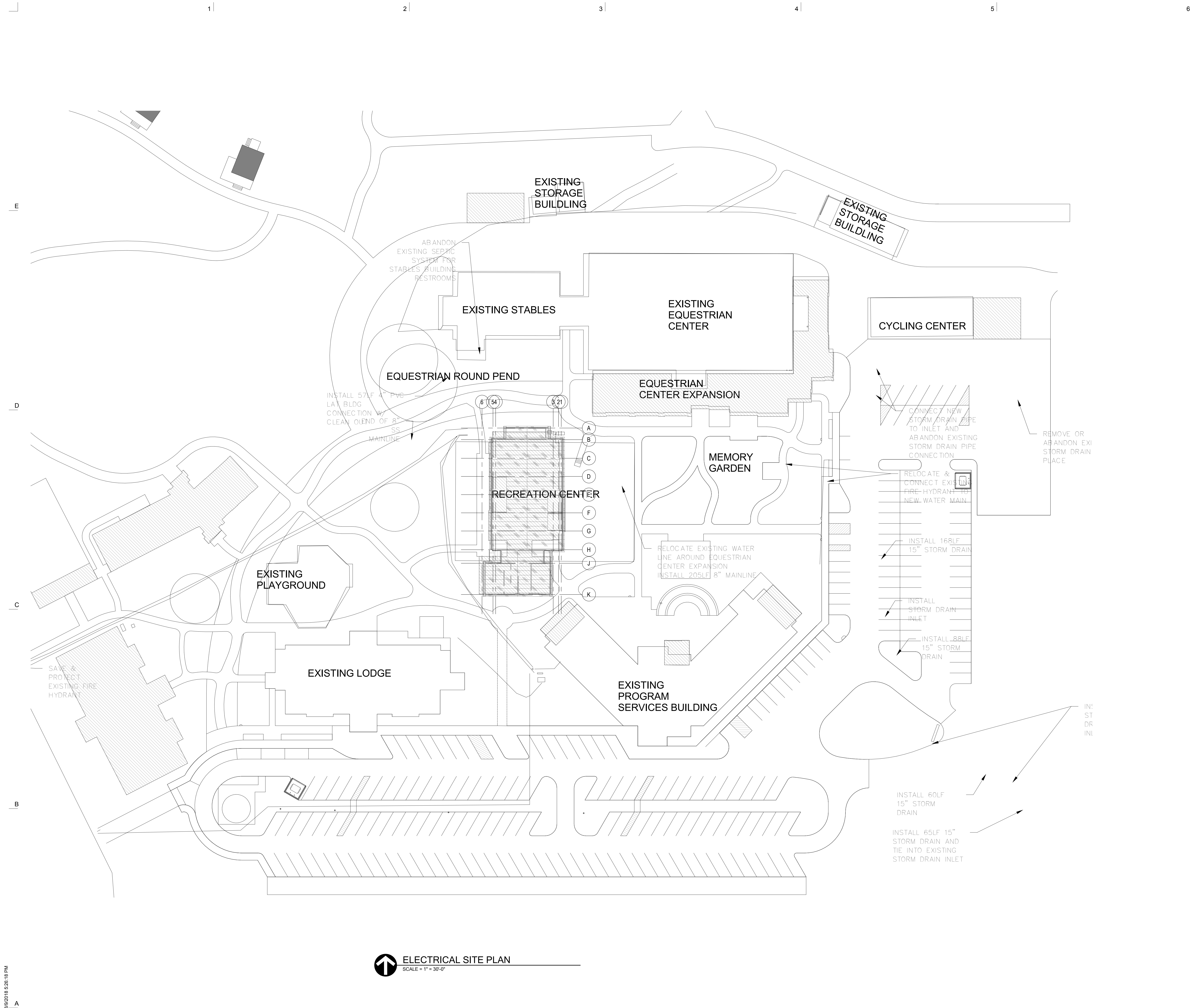
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## SCHEDULES





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**CONSTRUCTION DOCUMENTS**

**ELECTRICAL SITE PLAN**



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B

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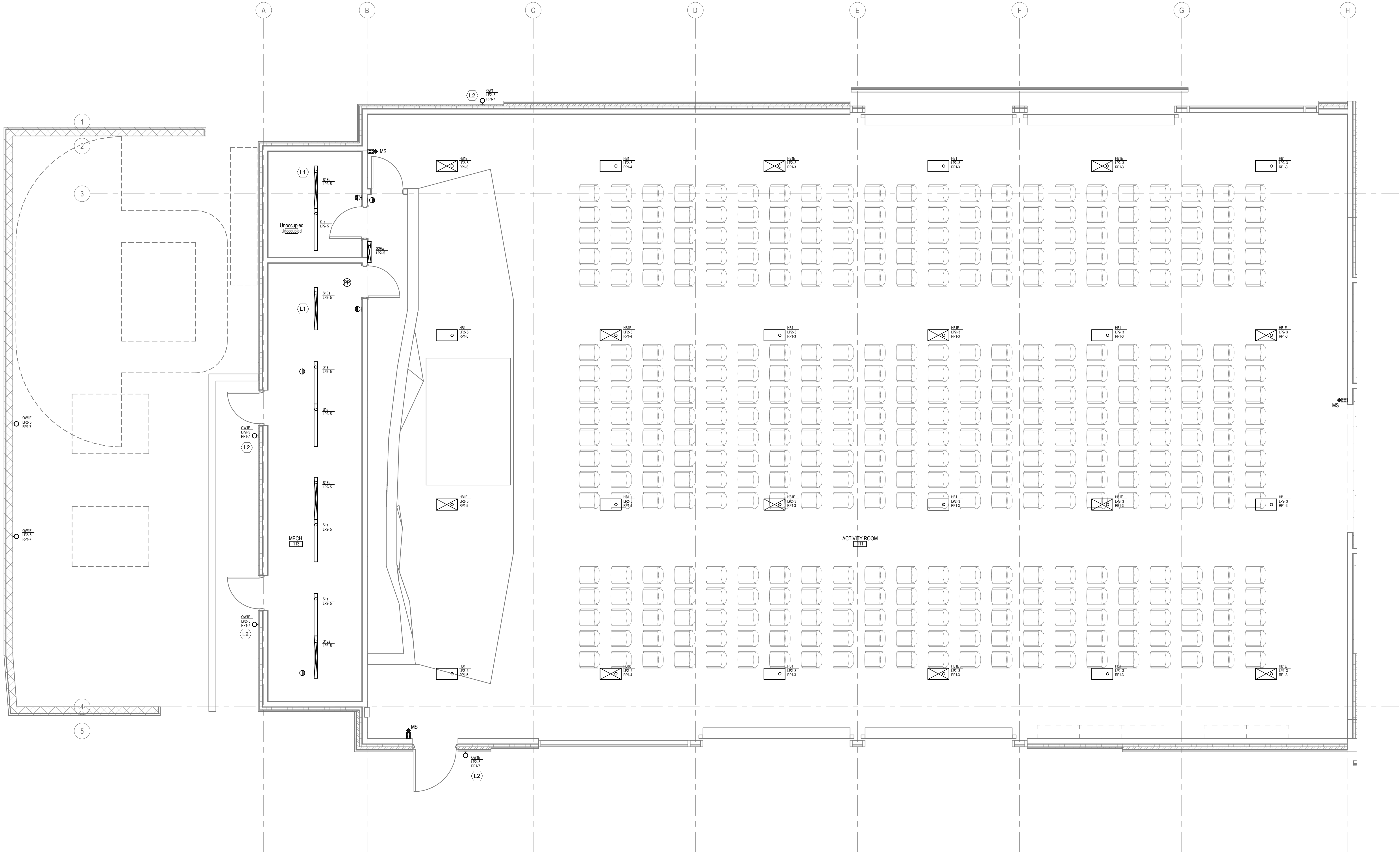
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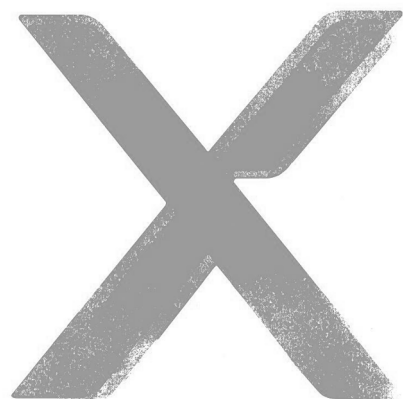
AREA A LIGHTING PLAN  
SCALE = 1/4" = 1'-0"

## GENERAL NOTES

1. PROVIDE UNSWITCHED HOT TO ALL EMERGENCY LIGHTS AND LIGHT FIXTURES WITH BATTERY PACKS FOR EMERGENCY POWER.
2. SEE LIGHTING LIGHTING CONTROL SWITCH CONFIGURATION DIAGRAMS ON SHEET E701 FOR ADDITIONAL LIGHTING CONTROL INFORMATION.

## SHEET KEYNOTES

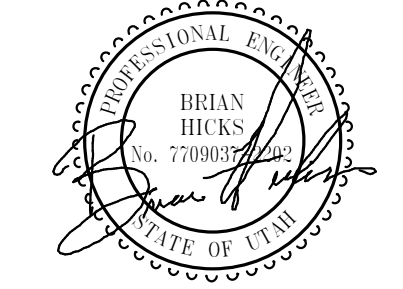
- L1 FIXTURE LAYOUT FOR REFERENCE ONLY. ADJUST LOCATION TO PROVIDE EVEN ILLUMINATION AND TO AVOID OBSTRUCTION OF ILLUMINATION BY PIPES, DUCTS, EQUIPMENT, ETC. SUSPEND FIXTURES ON CHAINS OR SURFACE MOUNT TO UNISTRUT AS REQUIRED.
- L2 CONFIRM FINAL LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.



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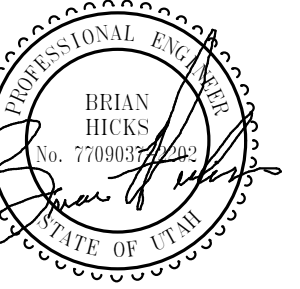
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## AREA A LIGHTING PLAN

E201



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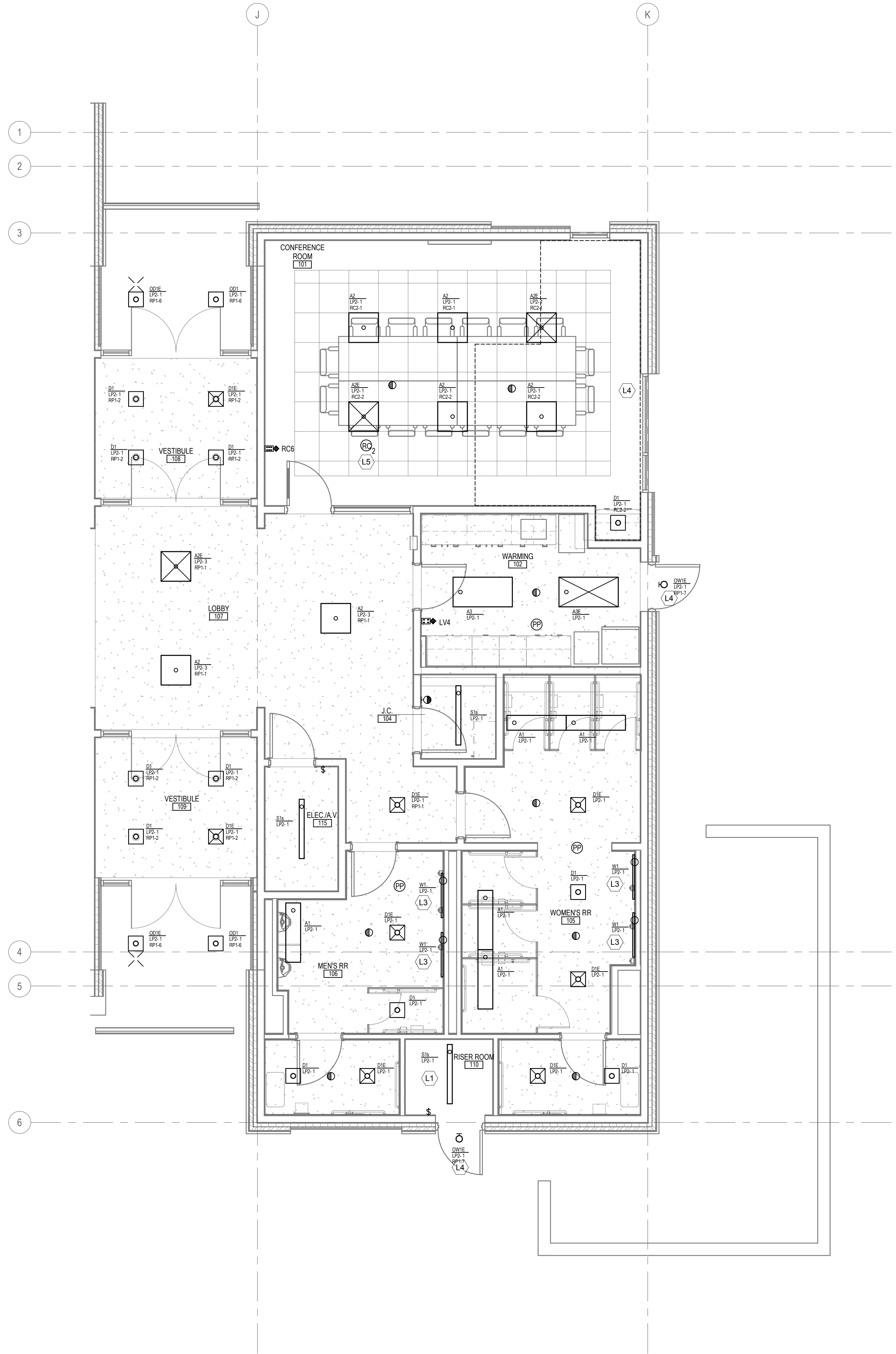
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## E202

1. PROVIDE UNSWITCHED HOT TO ALL EMERGENCY LIGHTS AND LIGHT FIXTURES WITH BATTERY PACKS FOR EMERGENCY POWER.
2. SEE LIGHTING LIGHTING CONTROL SWITCH CONFIGURATION DIAGRAMS ON SHEET E701 FOR ADDITIONAL LIGHTING CONTROL INFORMATION.

L1 FIXTURE LAYOUT FOR REFERENCE ONLY. ADJUST LOCATION TO PROVIDE EVEN  
ILLUMINATION AND TO AVOID OBSTRUCTION OF ILLUMINATION BY PIPES, DUCTS, EQUIPMENT,  
ETC. SUSPEND FIXTURES ON CHAINS OR SURFACE MOUNT TO UNISTRUT AS REQUIRED.  
L3 CONFIRM FINAL LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHTING FIXTURES  
WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.  
L4 DAY-LIGHT ZONE CONTROL. NOT REQUIRED IN THIS AREA PER IECC.  
L5 COORDINATE ROOM CONTROLLER REQUIREMENTS WITH RECEPTACLE CONTROL IN THIS  
PLACE.



## AREA B LIGHTING PLAN



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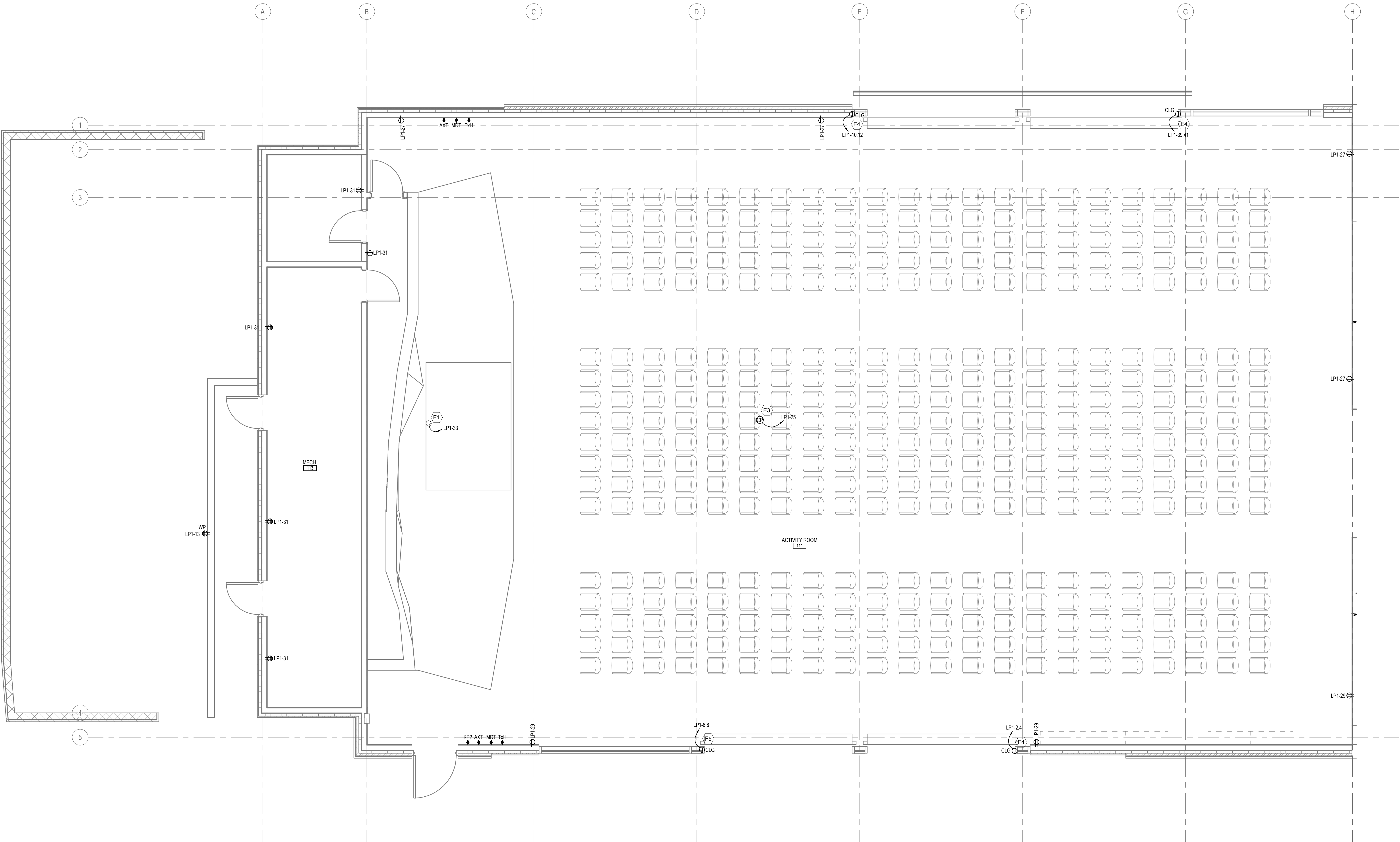
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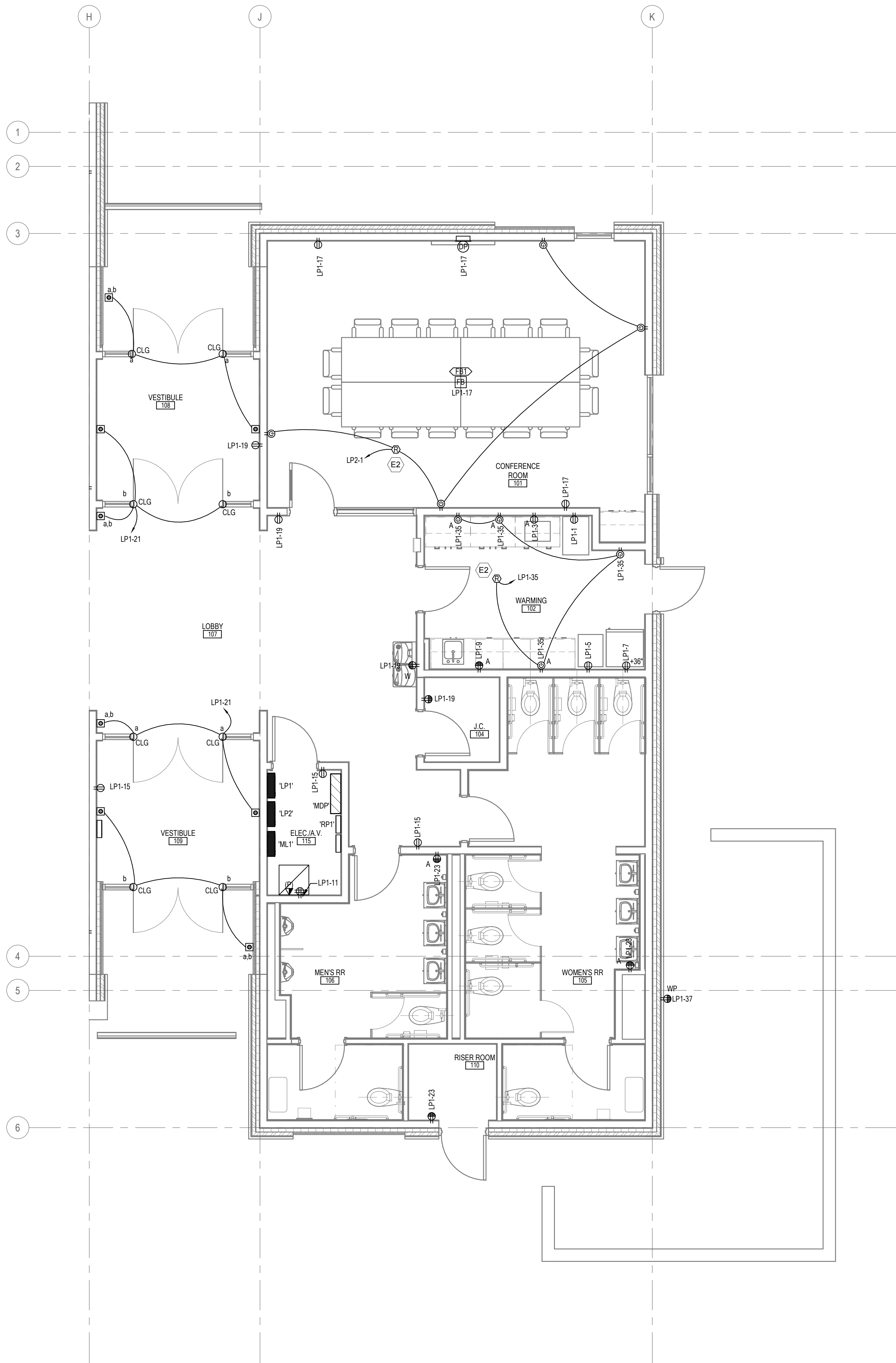
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AREA B POWER PLAN  
SCALE = 1/4" = 1'-0"

SHEET KEYNOTES

E2 INDICATED CIRCUIT AT ROOM CONTROLLER IS TO CONTROL RECEPTACLES THAT IS WIRED TO CONTROLLED RECEPTACLES SHALL BE ROUTED THROUGH RECEPTACLE SWITCH PACK. SWITCH PACK SHALL BE CONTROLLED BY ROOM CONTROLLER. SEE DIAGRAM 3 ON SHEET E703 FOR ADDITIONAL INFORMATION.



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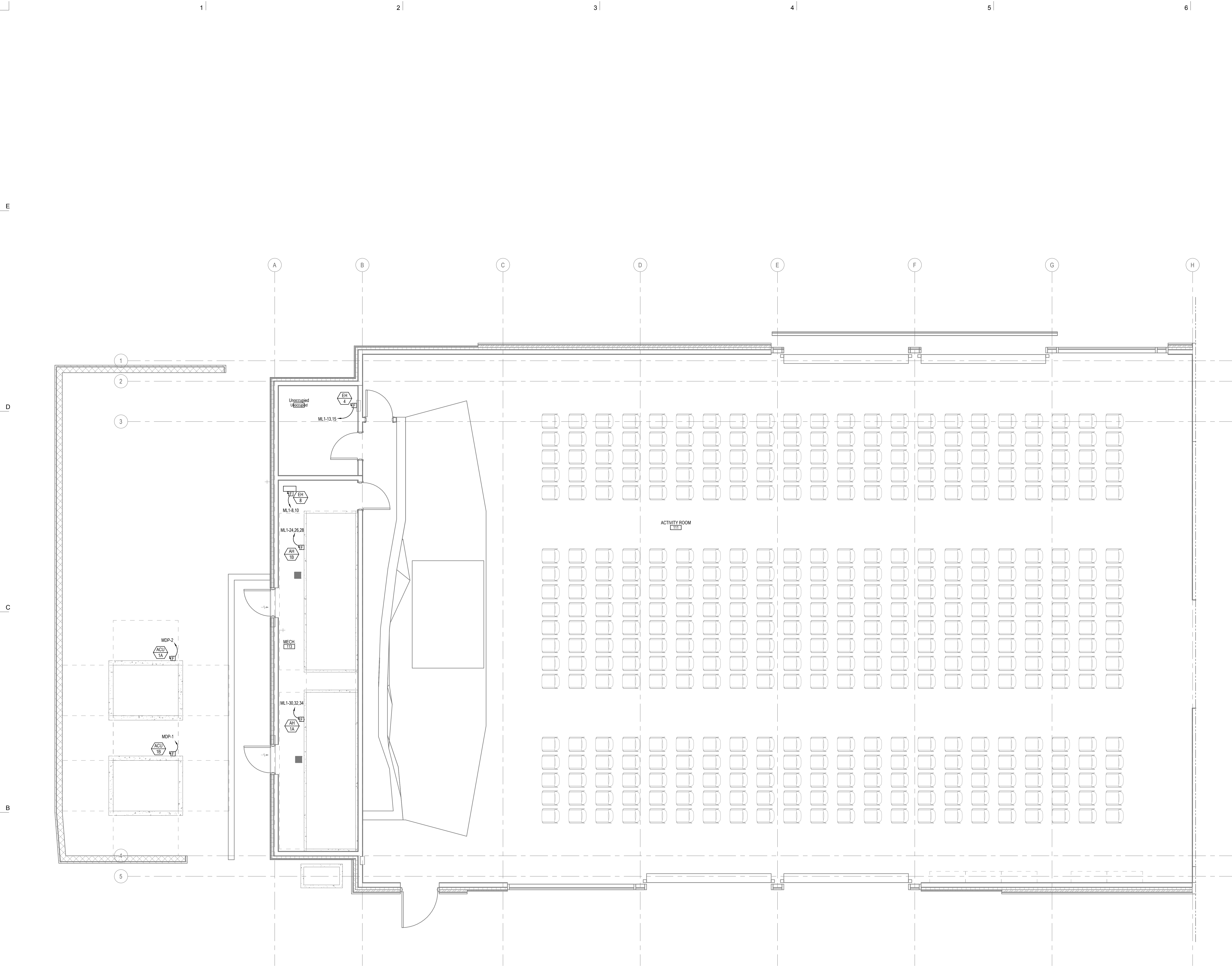
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AREA B POWER  
PLAN

E302



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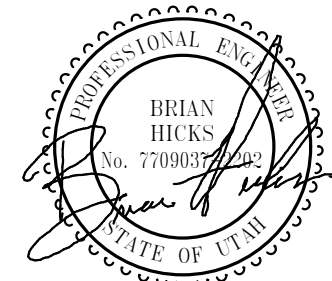


AREA A MECHANICAL POWER PLAN  
SCALE = 1/4" = 1'-0"



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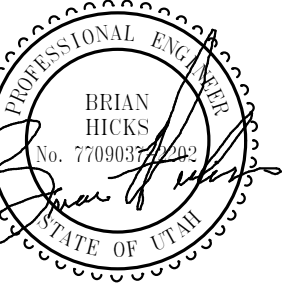
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**AREA A  
MECHANICAL  
POWER PLAN**

**E303**





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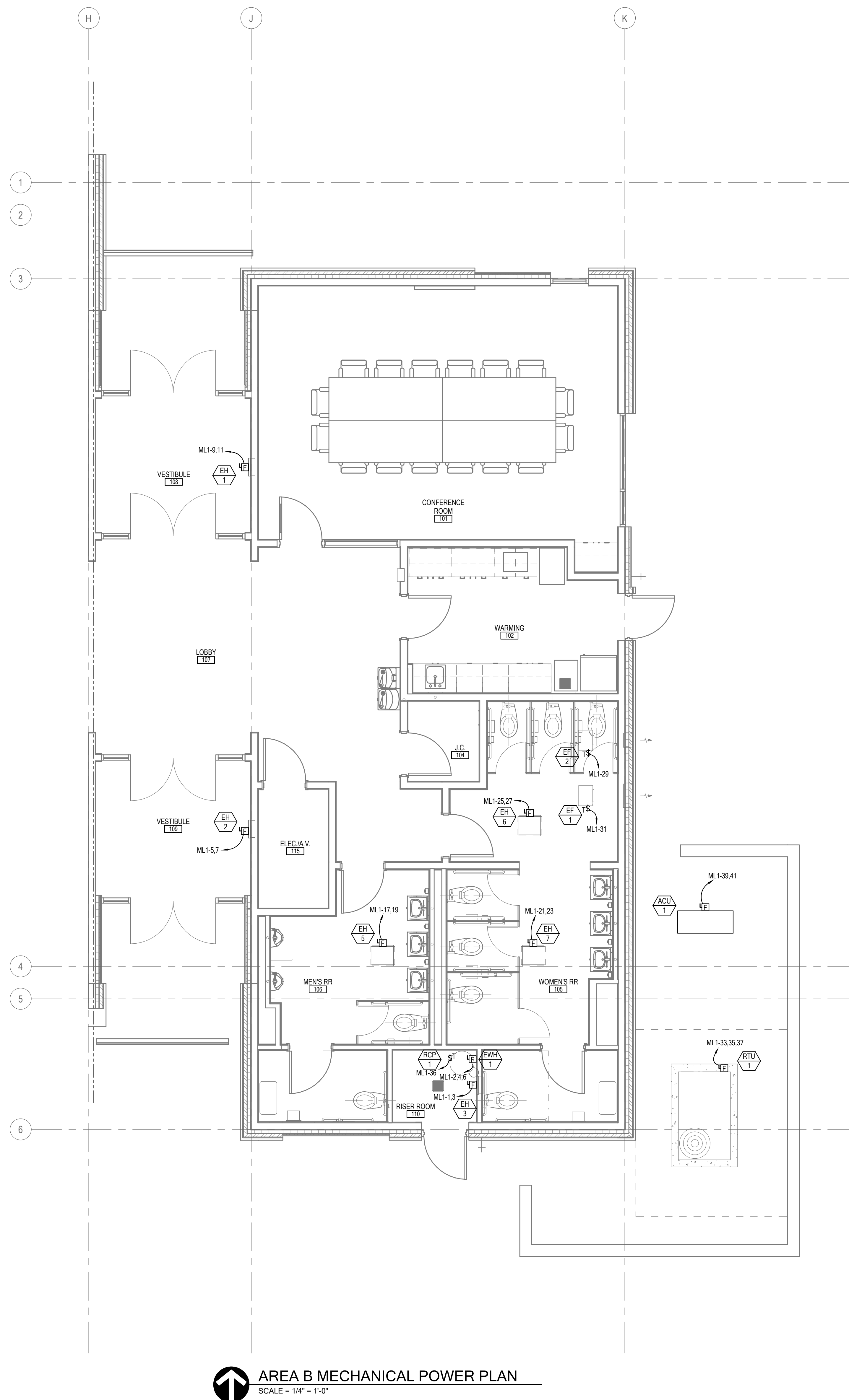
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## REA B MECHANICAL POWER PLAN

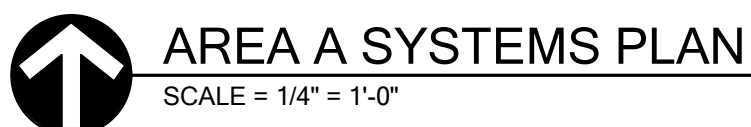
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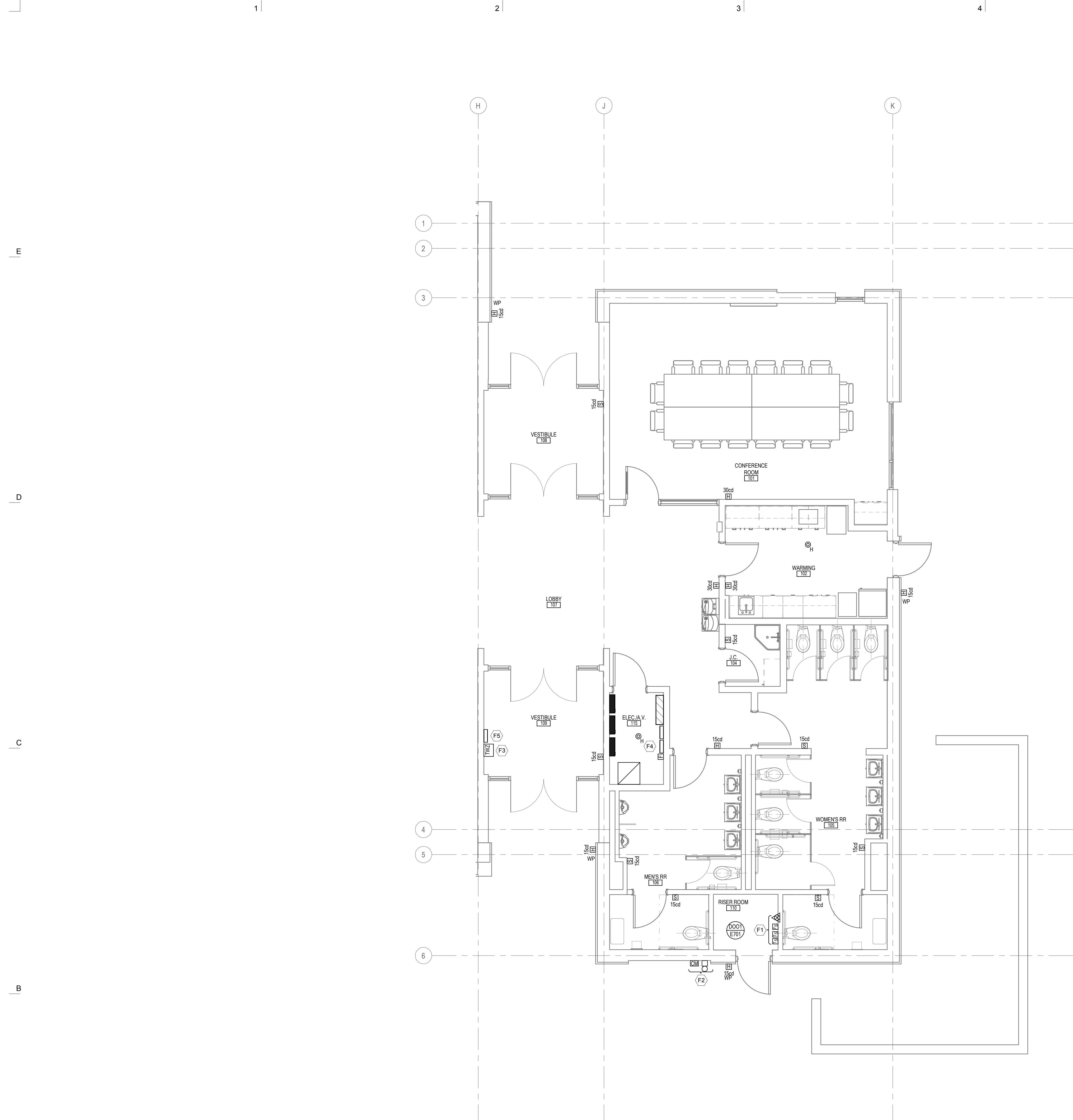



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# E401

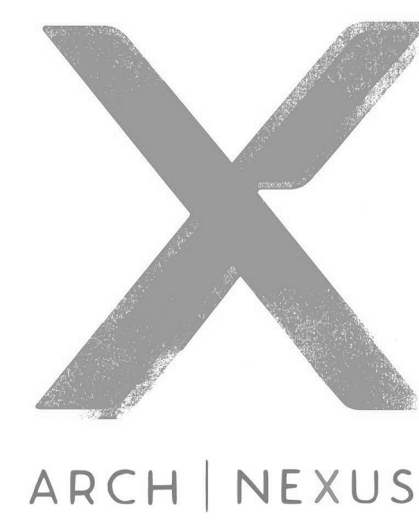






 AREA B SYSTEMS PLAN  
SCALE = 1/4" = 1'-0"

GENERAL NOTES	
1.	PROVIDE 120V EMERGENCY CIRCUIT TO ALL FIRE/SMOKE DAMPERS RELAYS. NUMBER OF DEVICES PER CIRCUIT TO SHALL NOT EXCEED EIGHT. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 IN SHEET E701 FOR ADDITIONAL INFORMATION.
SHEET KEYNOTES	
F1	PROVIDE MONITOR MODULE FOR ALL TAMPER AND FLOW SWITCHES SHOWN ON THE DRAWINGS. LOCATE EXACT LOCATION OF SHUT OFF VALVE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO DETAIL D001 IN SHEET E702 FOR MORE INFORMATION.
F2	FIRE SPRINKLER BELL WITH CONTROL MODULE FOR RISER. COORDINATE WITH SPRINKLER CONTRACTOR FOR EXACT LOCATION OF HOSE CONNECTION IN THE OUTSIDE OF THE BUILDING PRIOR TO ROUGH-IN. PROVIDE 120V EMERGENCY CIRCUIT TO BELL.
F3	PROVIDE TWO-WAY COMMUNICATIONS SYSTEMS HEAD-END UNIT FOR NEW FIRE ALARM SYSTEM. PROVIDE A 120V DEDICATED CIRCUIT FROM 1LP1 AND ONE CATEGORY 4 CABLE AT THIS LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
F4	PROVIDE (2) 120V SINGLE PHASE DEDICATED CIRCUITS AND (2) CATEGORY CABLE AT THIS LOCATION FOR FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT PRIOR TO ROUGH-IN.
F5	REMOTE FIRE ALARM ANNUNCIATOR PANEL. REFER TO DIAGRAM D002 ON SHEET E701 FOR ADDITIONAL INFORMATION.



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# Date Revision

**CONSTRUCTION DOCUMENTS**

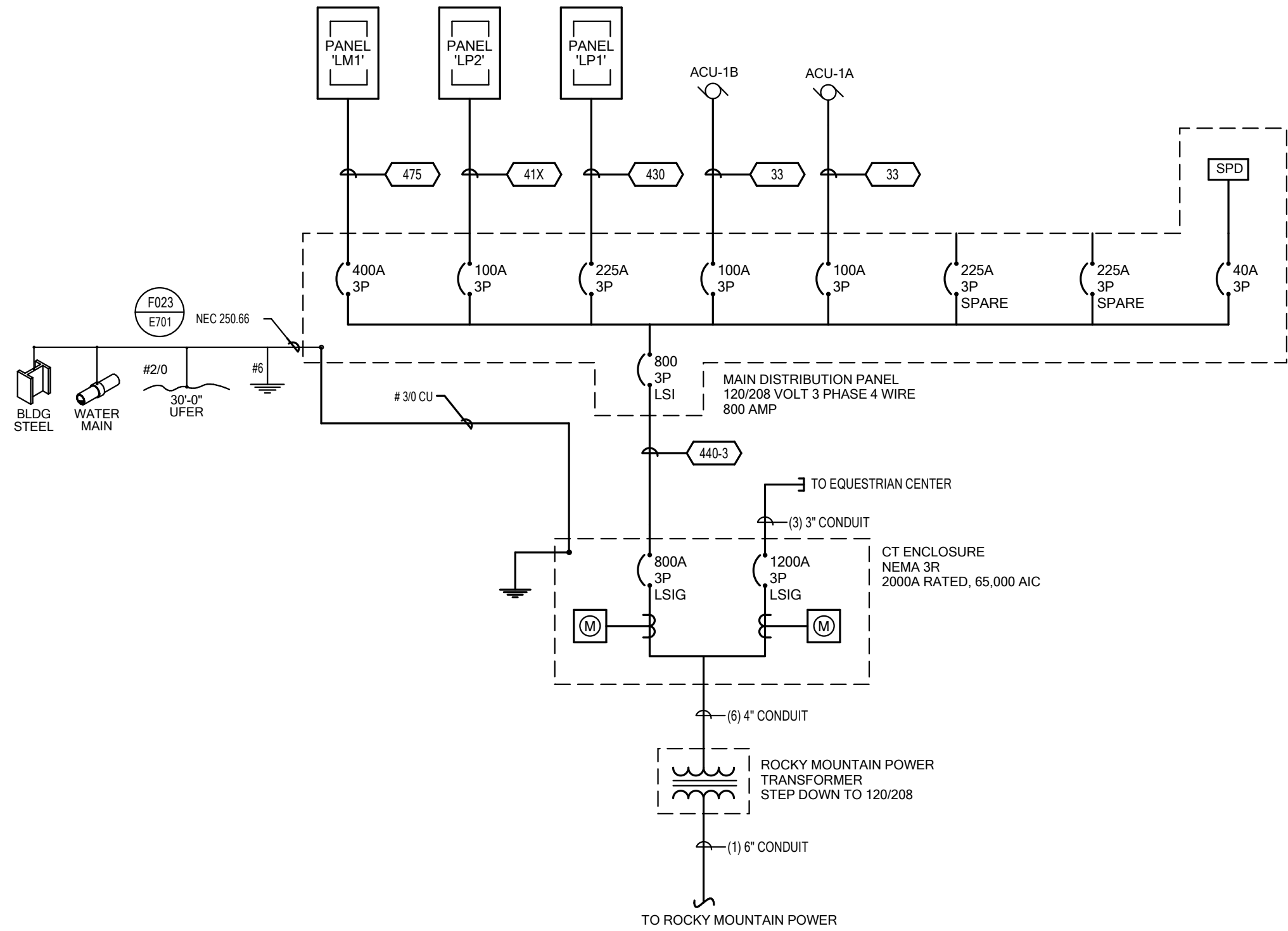
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DATE: 08.09.18

**AREA B  
SYSTEMS PLAN**

**E402**



ONE-LINE GENERAL NOTES	
1. PROVIDE PROTECTION DEVICE STUDY AS OUTLINED ON 26 0573 FOR THE NORMAL ELECTRICAL BRANCHES PRIOR TO SUBMITTAL OF PANELS.	
2. PROVIDE DOOR-IN-DOOR COVERS FOR ALL PANELBOARDS.	
3. SEE PLANS LOCATIONS OF PANELBOARDS, SWITCHBOARDS, TRANSFER SWITCHES, BUSWAY, TRANSFORMERS, DISCONNECTS, ETC. PROVIDE NEMA 1 (INDOOR) OR NEMA 3R (OUTDOOR) ENCLOSURES AS REQUIRED.	
4. SUBMIT DIMENSIONED DRAWINGS OF ALL ELECTRICAL ROOMS WITH PANELBOARDS, SWITCHBOARDS, TRANSFER SWITCHES, SURGE PROTECTION, BUSWAY TRANSFORMERS, DISCONNECTS ETC. CLEARLY IDENTIFIED. DIMENSIONED DRAWINGS SHALL BE BASED UPON ACTUAL EQUIPMENT SIZED FROM SHOP DRAWINGS.	
5. PROVIDE ARC FAULT REDUCTION SWITCH FOR ALL CIRCUIT BREAKERS RATED 1200 AMPS LARGER.	
6. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER FOR ALL CIRCUIT BREAKERS 600A AND ABOVE. REFER TO THE OVERCURRENT PROTECTION SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.	



1 ONE-LINE DIAGRAM  
SCALE

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE						
TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUIT SIZE	INSUL. ATION	EQ. GND. COND.(AL)
(31X)	120	2"	3	1/0	XHHW-2	4
(41X)	120	2"	4	1/0	XHHW-2	4
(51X)	120	2"	5 *	1/0	XHHW-2	4
(32X)	135	2"	3	2/0	XHHW-2	4
(42X)	135	2"	4	2/0	XHHW-2	4
(52X)	135	2"	5 *	2/0	XHHW-2	4
(33X)	155	2"	3	3/0	XHHW-2	4
(43X)	155	2"	4	3/0	XHHW-2	4
(53X)	155	3"	5 *	3/0	XHHW-2	4
(34X)	180	2"	3	4/0	XHHW-2	4
(44X)	180	3"	4	4/0	XHHW-2	4
(54X)	180	3"	5 *	4/0	XHHW-2	2
(325)	205	2"	3	250	XHHW-2	2
(425)	205	3"	4	250	XHHW-2	2
(525)	205	3"	5 *	250	XHHW-2	2
(330)	230	3"	3	300	XHHW-2	2
(430)	230	3"	4	300	XHHW-2	2
(530)	230	3"	5 *	300	XHHW-2	2
(335)	250	3"	3	350	XHHW-2	2
(435)	250	3"	4	350	XHHW-2	2
(535)	250	3"	5 *	350	XHHW-2	2
(340)	270	3"	3	400	XHHW-2	2
(440)	270	3"	4	400	XHHW-2	2
(540)	270	3"	5 *	400	XHHW-2	2
(350)	310	4"	3	500	XHHW-2	1
(450)	310	4"	4	500	XHHW-2	1
(550)	310	4"	5 *	500	XHHW-2	1
(375)	385	4"	3	750	XHHW-2	1
(475)	385	4"	4	750	XHHW-2	1
(575)	385	4"	5 *	750	XHHW-2	1

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS						
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.(AL)
(325-2)	400	410	2	3	250	2.5" 2/0
(425-2)	400	410	2	4	250	2.5" 2/0
(525-2)	400	410	2	5 *	250	2.5" 2/0
(350-2)	600	620	2	3	500	3" 2/0
(450-2)	600	620	2	4	500	3" 2/0
(550-2)	600	620	2	5 *	500	4" 2/0
(375-2)	800	770	2	3	750	3" 3/0
(475-2)	800	770	2	4	750	4" 3/0
(575-2)	800	770	2	5 *	750	4" 3/0
(340-3)	800	810	3	3	400	2.5" 3/0
(440-3)	800	810	3	4	400	3" 3/0
(540-3)	800	810	3	5 *	400	3" 3/0
(375-3)	1000	1155	3	3	750	4" 4/0
(475-3)	1000	1155	3	4	750	4" 4/0
(575-3)	1000	1155	3	5 *	750	4" 4/0
(350-4)	1200	1240	4	3	500	4" 250
(450-4)	1200	1240	4	4	500	4" 250
(550-4)	1200	1240	4	5 *	500	4" 250
(340-6)	1600	1620	6	3	400	4" 350
(440-6)	1600	1620	6	4	400	4" 350
(540-6)	1600	1620	6	5 *	400	4" 350
(475-6)	2000	2310	6	4	750	4" 400
(475-7)	2500	2695	7	4	750	5" 600
(475-8)	3000	3080	8	4	750	5" 600
(475-11)	4000	4235	11	4	750	5" 750

NOTES  
IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.  
GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS  
\* 200% NEUTRAL  
\*\* COPPER CONDUCTOR (XHHW)  
PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.  
PROVIDE TERMINATION FOR ALUMINUM-ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY LISTED UNDER UL 486-B MARKED "AL7CU" FOR 75° RATED CIRCUITS.  
PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS, COORDINATE WITH EQUIPMENT SUPPLIER.

ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY						ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY Δ 480-208/120 Y					
TRANS KVA	O.C. PROT.	TYPE COND.	GND. COND.**	MIN. Z%	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.
30	50	(8)	8	3	100	(101X-1)	120	1	4	1/0	1-1/2"
45	70	(34)	4	3	175	(101X-1)	180	1	4	4/0	3"
75	125	(30)	2	3	225	(105-1)	250	1	4	350	3"
112.5	175	(30)	2	4	400	(105-1)	410	2	4	250	3"
150	300	(30)	2/0	4	600	(105-1)	610	2	4	500	4"
225	400	(375)	3/0	4	800	(105-1)	810	3	4	400	4"
300	600	(350-2)	3/0	5	1200	(105-1)	1240	4	4	500	4"
500	800	(363)	3/0	5	1600	(105-1)	1620	6	4	400	4"
750	1200	(364)	3/0	5	3000	(105-1)	3100	10	4	500	4"

ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY						ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY (200% NEUTRAL) Δ 480-208/120 Y					
TRANS KVA	O.C. PROT.	TYPE COND.	GND. COND.**	MIN. Z%	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.
30	50	(8)	8	3	100	(151X-1)	120	1	5	1/0	2"
45	70	(34)	4	3	175	(155-1)	180	1	5	4/0	3"
75	125	(30)	2	3	225	(155-1)	250	1	5	350	3"
112.5	175	(30)	2	4	400	(155-1)	410	2	5	250	3"
150	300	(30)	2/0	4	600	(155-1)	610	2	5	500	4"
225	400	(375)	3/0	4	800	(150-3)	810	3	5	400	4"
300	600	(350-2)	3/0	5	1200	(150-4)	1240	4	5	500	4"
500	800	(363)	3/0	5	1600	(150-4)	1620	6	5	400	4"
750	1200	(364)	3/0	5	3000	(150-10)	3100	10	5	500	4"

\* SEE SCHEDULE FOR CONDUIT AND WIRE SIZE      \*\* COPPER GROUNDING ELECTRODE      \*\*\* CU GROUND



E  
D  
C  
B  
A

09/20/18 5:26:28 PM

1

2

PANELBOARD SCHEDULE																			
PANEL: ML1				TYPE: Type 1				VOLTS: 120/208 Wye				PHASE: 3		WIRES: 4					
MOUNTING: SURFACE				LOCATION: Space 115				MAINS: MLO				FED FROM:							
								AMP: 400 A				SUBFEED LUGS							
												ISO GROUND							
												200% NEUTRAL							
												SPD							
BRANCH BREAKERS																			
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM				
EH-3	20 A	2	12	1	799 VA			4623 VA			2	6	3	50 A	EHW-1				
--	--	--	--	3				4623 VA			4	--	--	--	--				
EH-2	25 A	2	12	5		1597 VA				4623 VA	6	--	--	--	--				
--	--	--	--	7	1597 VA			3994 VA			8	6	2	60 A	EH-8				
EH-1	25 A	2	12	9		1597 VA				3994 VA	10	--	--	--	--				
--	--	--	--	11		1597 VA					12	--	--	--	--				
EH-4	25 A	2	12	13	1597 VA						14	--	--	--	--				
--	--	--	--	15	1597 VA						16	--	--	--	--				
EH-5	20 A	2	12	17		1198 VA		1198 VA			18	--	--	--	--				
--	--	--	--	19	1198 VA						20	--	--	--	--				
EH-7	20 A	2	12	21		1198 VA					22	--	--	--	--				
--	--	--	--	23		1198 VA		1198 VA			24	--	--	--	--				
EH-6	20 A	2	12	25	1198 VA			3747 VA			3747 VA	26	--	--	--				
--	--	--	--	27		1198 VA					28	--	--	--	--				
EF-2	30 A	1	12	29			1920 VA				3747 VA	30	8	3	50 A				
EF-1	20 A	1	12	31	1176 VA			3747 VA			32	--	--	--	--				
RTU-1	40 A	3	10	33		2882 VA				3747 VA	34	--	--	--	--				
--	--	--	--	35			2882 VA				90 VA	36	12	1	20 A				
--	--	--	--	37	2882 VA						38	--	--	--	RCR-1				
ACU-1	20 A	2	12	39		915 VA					40	--	--	--	--				
--	--	--	--	41		915 VA					42	--	--	--	--				
					26558	26298	23515	TOTAL (VA)									CONNECTED LOAD TOTAL		
					225 A	223 A	196 A	AMPS/PHASE									76371 VA		
Legend: *																			
* PROVIDE 5mA GFCI CIRCUIT BREAKER																			
AIC RATING										AMPS RMS SYSM.									

3

7

PANELBOARD SCHEDULE

PANEL: LP2

TYPE: Type 1

VOLTS: 120/208 Wye

PHASE: 3

WIRES: 4

MOUNTING: SURFACE

LOCATION: Space 115

MAINS: MLO

FED FROM:

AMP: 100 A

SUBFEED LUGS

ISO GROUND

200% NEUTRAL

SPD

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
LTG	20 A	1		1	1632 VA			0 VA			2	--	1	20 A	SPARE
LTG	20 A	1		3	1041 VA			0 VA			4	--	1	20 A	SPARE
LTG MECH. 112	20 A	1		5		904 VA		0 VA		0 VA	6	--	1	20 A	SPARE
SPARE	20 A	1	--	7	0 VA			0 VA			8	--	1	20 A	SPARE
SPARE	20 A	1	--	9		0 VA		0 VA		0 VA	10	--	1	20 A	SPARE
SPARE	20 A	1	--	11			0 VA	0 VA		0 VA	12	--	1	20 A	SPARE
SPARE	20 A	1	--	13	0 VA			0 VA			14	--	1	20 A	SPARE
SPARE	20 A	1	--	15		0 VA		0 VA		0 VA	16	--	1	20 A	SPARE
SPARE	20 A	1	--	17			0 VA			0 VA	18	--	1	20 A	SPARE
SPARE	20 A	1	--	19	0 VA			0 VA			20	--	1	20 A	SPARE
SPARE	20 A	1	--	21		0 VA		0 VA		0 VA	22	--	1	20 A	SPARE
SPARE	20 A	1	--	23			0 VA	0 VA		0 VA	24	--	1	20 A	SPARE
SPARE	20 A	1	--	25	0 VA			0 VA			26	--	1	20 A	SPARE
SPARE	20 A	1	--	27		0 VA		0 VA		0 VA	28	--	1	20 A	SPARE
SPARE	20 A	1	--	29			0 VA	0 VA		0 VA	30	--	1	20 A	SPARE
SPARE	20 A	1	--	31	0 VA			0 VA			32	--	1	20 A	SPARE
SPARE	20 A	1	--	33		0 VA		0 VA		0 VA	34	--	1	20 A	SPARE
SPARE	20 A	1	--	35			0 VA	0 VA		0 VA	36	--	1	20 A	SPARE
SPARE	20 A	1	--	37	0 VA			0 VA			38	--	1	20 A	SPARE
SPARE	20 A	1	--	39		0 VA		0 VA		0 VA	40	--	1	20 A	SPARE
SPARE	20 A	1	--	41			0 VA	0 VA			42	--	1	20 A	SPARE

Legend:

\* PROVIDE 5mA GFCI CIRCUIT BREAKER

1632	1041	904	TOTAL (VA)
14 A	9 A	8 A	AMPS/PHASE

CONNECTED LOAD TOTAL

3577 VA

AIC RATING

AMPS RMS SYSM.

5

6

PANELBOARD SCHEDULE

PANEL: LP1

TYPE: Type 1

VOLTS: 120/208 Wye

PHASE: 3

WIRES: 4

MOUNTING: SURFACE

LOCATION: Space 115

MAINS: MLO

FED FROM:

AMP: 225 A

SUBFEED LUGS

ISO GROUND

200% NEUTRAL

SPD

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
WARMING CABINETS	20 A	1	12	1	1440 VA			1000 VA			2	12	2	20 A	POWER
MICROWAVE	20 A	1	12	3	1500 VA				500 VA		4	--	--	--	--
ICE MAKER*	20 A	1	12	5			1200 VA			1000 VA	6	12	2	20 A	POWER
REFRIGERATOR*	20 A	1	12	7	720 VA				500 VA		8	--	--	--	--
RCPT WARMING 162	20 A	1	12	9		180 VA				1000 VA	10	12	2	20 A	POWER
RCPT Space 115	20 A	1	12	11		180 VA					500 VA	12	--	--	--
RECEPTACLE	20 A	1	12	13	180 VA			0 VA			14	--	1	20 A	SPARE
RCPT MEN'S RR 106	20 A	1	12	15		540 VA		0 VA			16	--	1	20 A	SPARE
RCPT CONFERENCE ROOM	20 A	1	12	17			540 VA			0 VA	18	--	1	20 A	SPARE
ELECT WATER COOLER *	20 A	1	12	19	900 VA			0 VA			20	--	1	20 A	SPARE
POWER	20 A	1	12	21		1000 VA			0 VA		22	--	1	20 A	SPARE
RCPT RISER ROOM 110	20 A	1	12	23			540 VA			0 VA	24	--	1	20 A	SPARE
POWER	20 A	1	12	25	1000 VA			0 VA			26	--	1	20 A	SPARE
RCPT ACTIVITY ROOM 111	20 A	1	12	27		720 VA			0 VA		28	--	1	20 A	SPARE
RCPT ACTIVITY ROOM 111	20 A	1	12	29			540 VA			0 VA	30	--	1	20 A	SPARE
RCPT MECH. 112	20 A	1	12	31	900 VA			0 VA			32	--	1	20 A	SPARE
POWER ACTIVITY ROOM 111	20 A	1	12	33		1000 VA			0 VA		34	--	1	20 A	SPARE
RECEPTACLE WARMING 162	20 A	1	12	35			720 VA			0 VA	36	--	1	20 A	SPARE
RECEPTACLE	20 A	1	12	37	180 VA			0 VA			38	--	1	20 A	SPARE
POWER	20 A	2	12	39		1000 VA			0 VA		40	--	1	20 A	SPARE
--	--	--	--	41			500 VA			0 VA	42	--	1	20 A	SPARE

6820

7440

5720

TOTAL (VA)

CONNECTED LOAD TOTAL

58 A

63 A

48 A

AMPS/PHASE

19980 VA

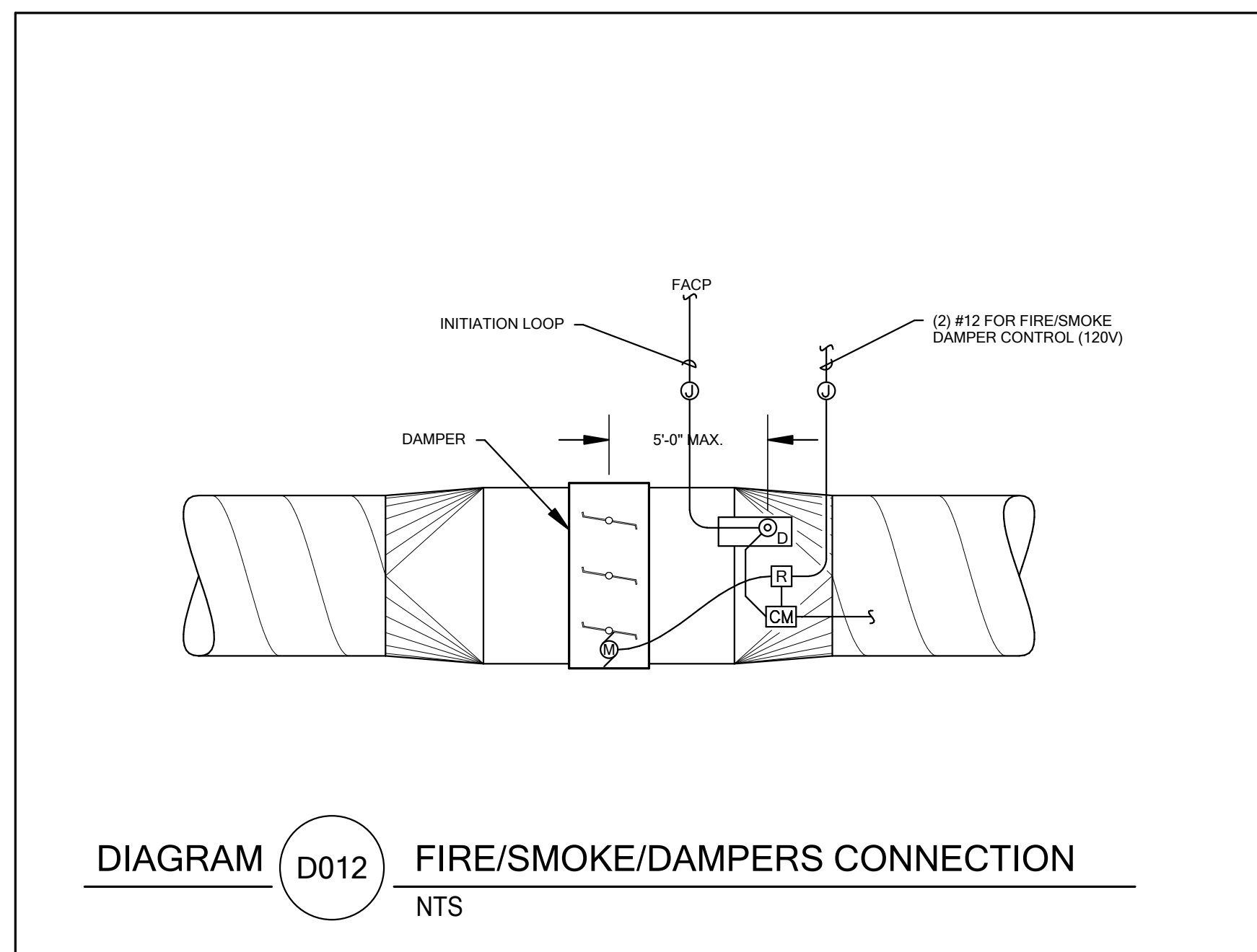
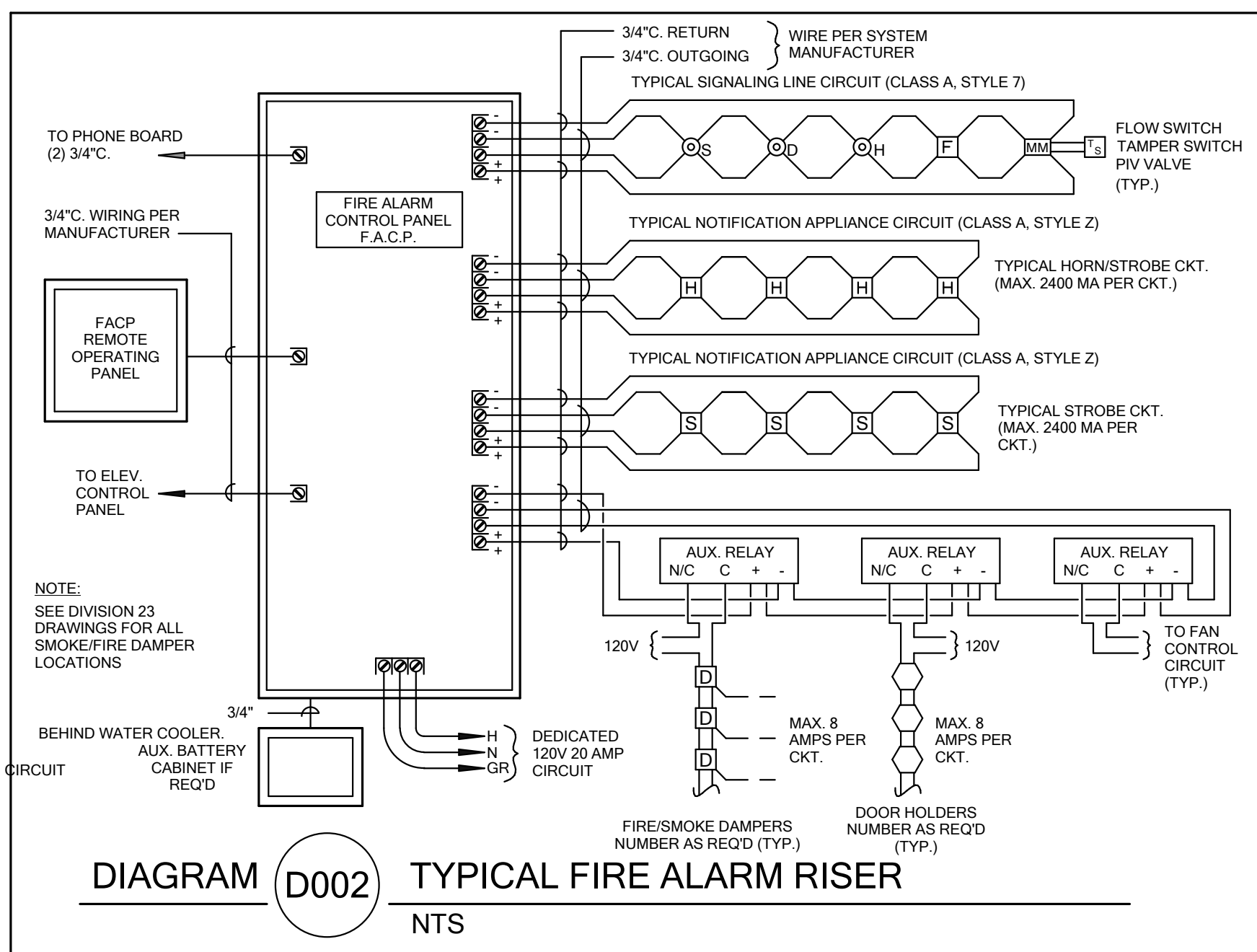
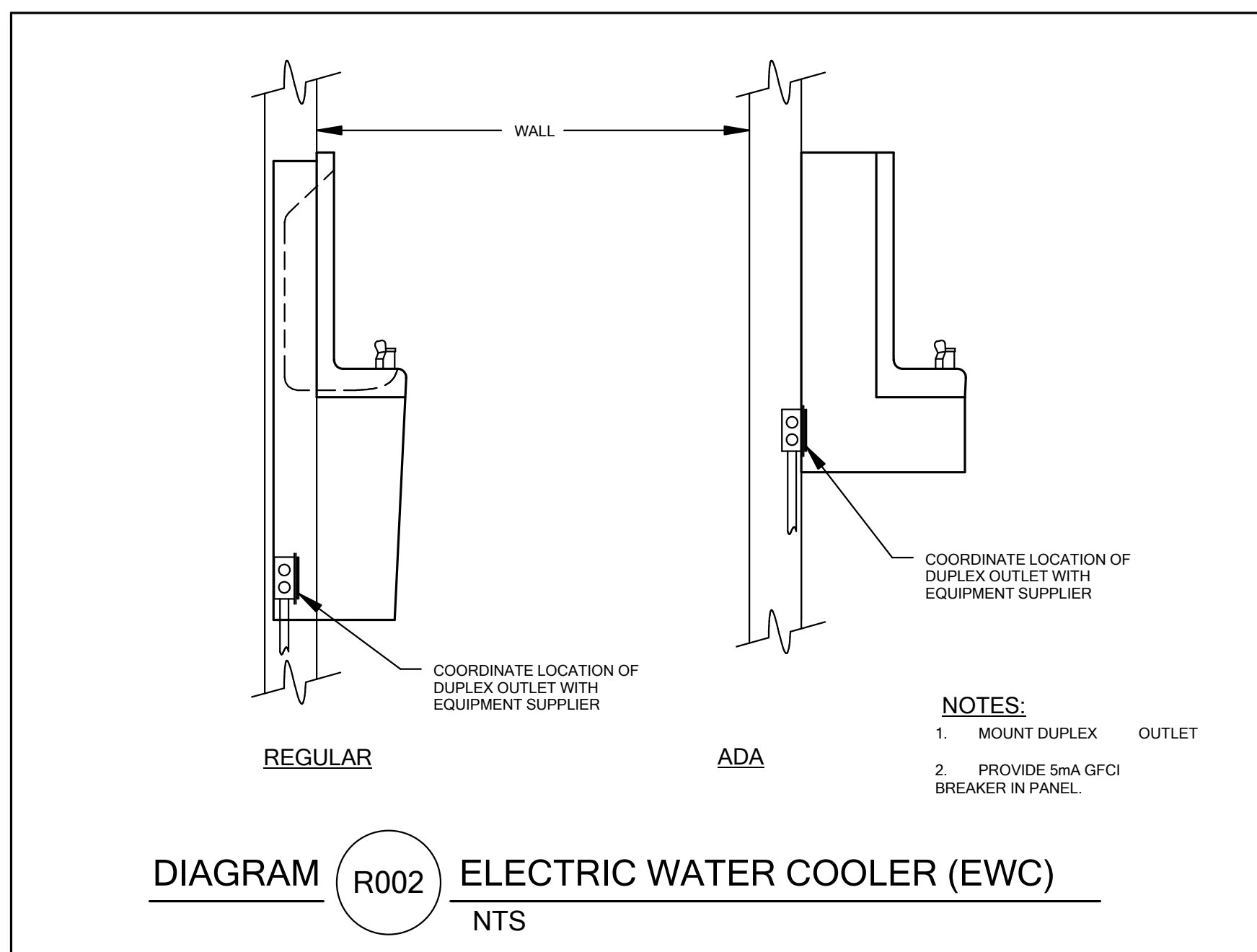
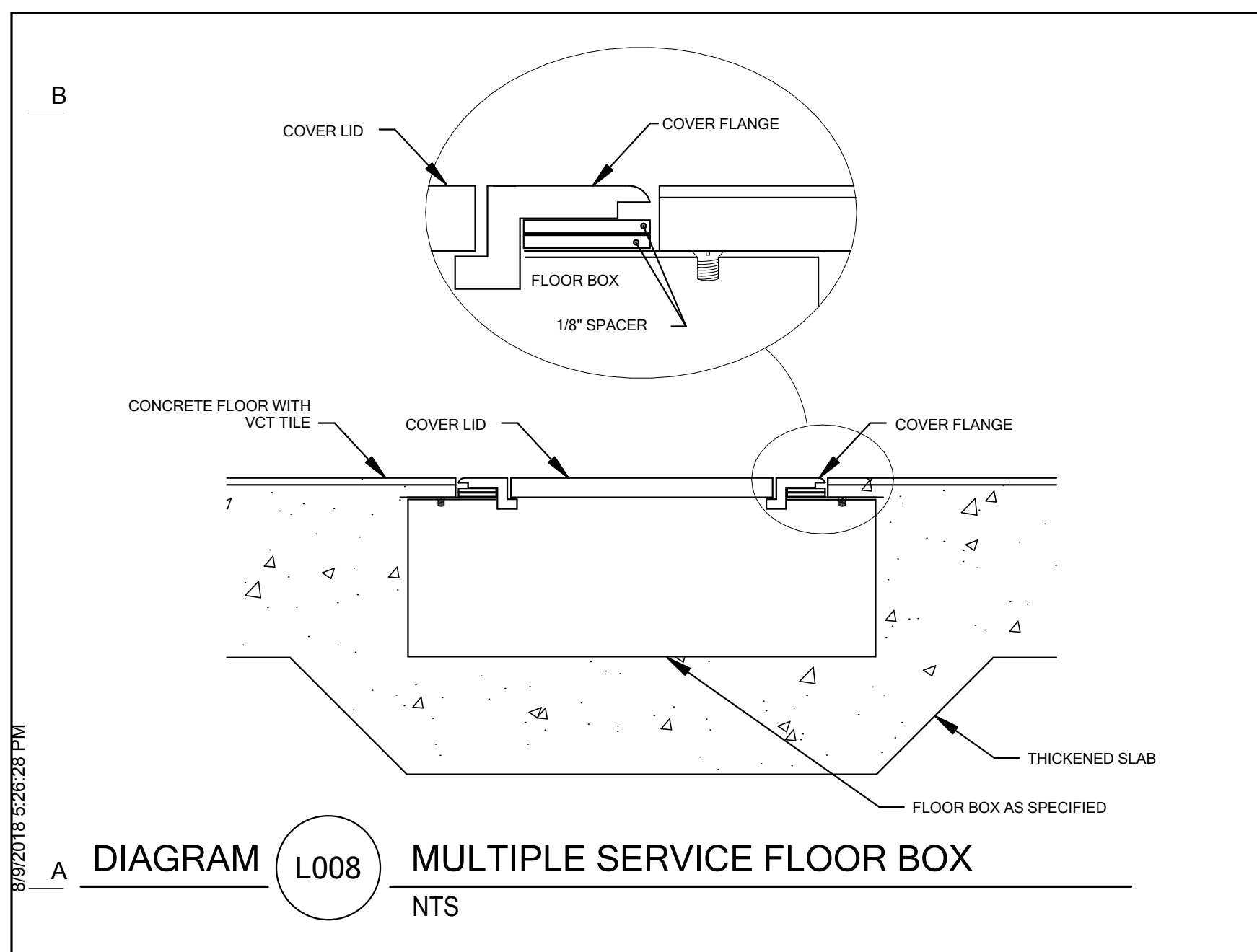
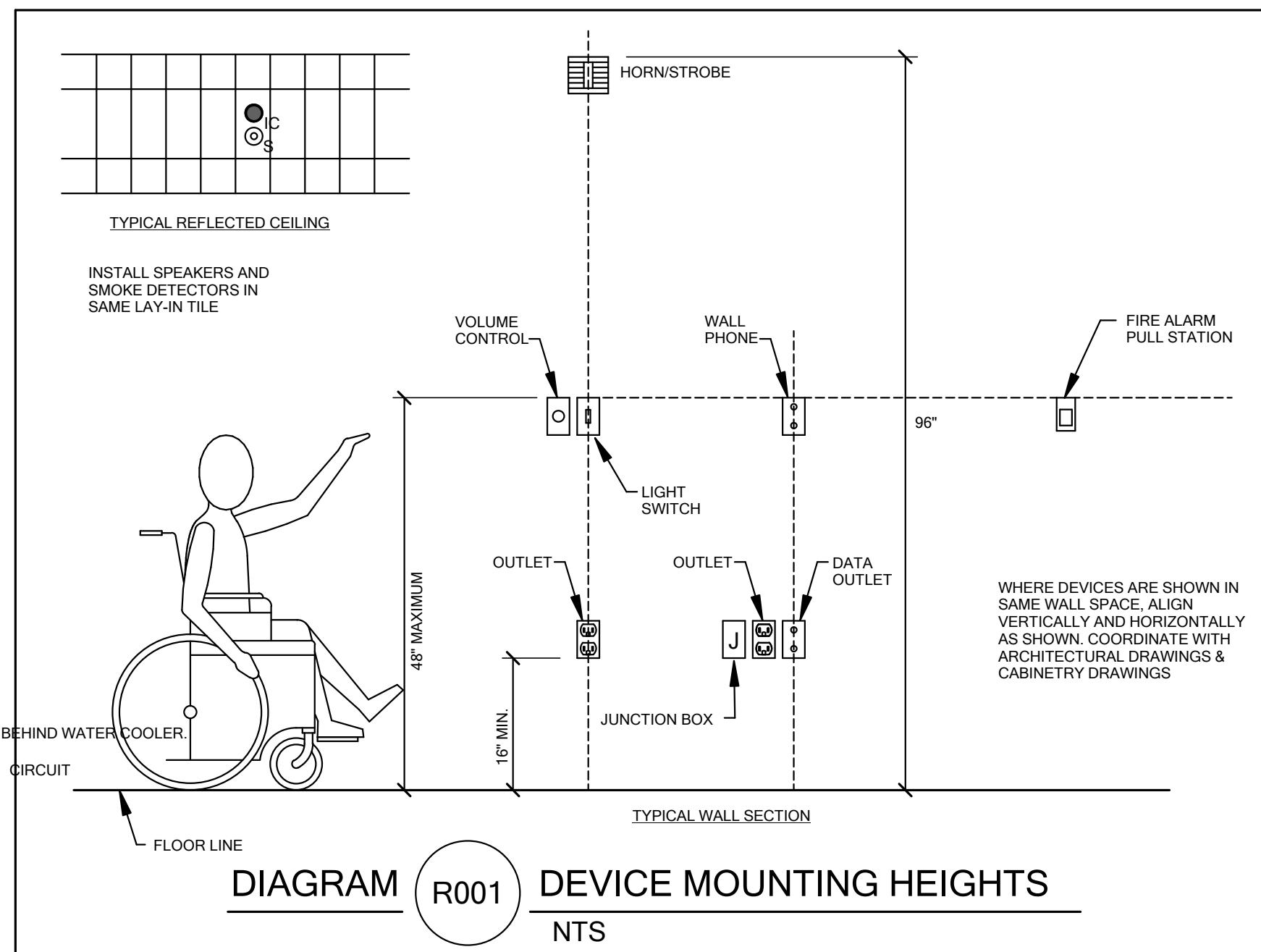
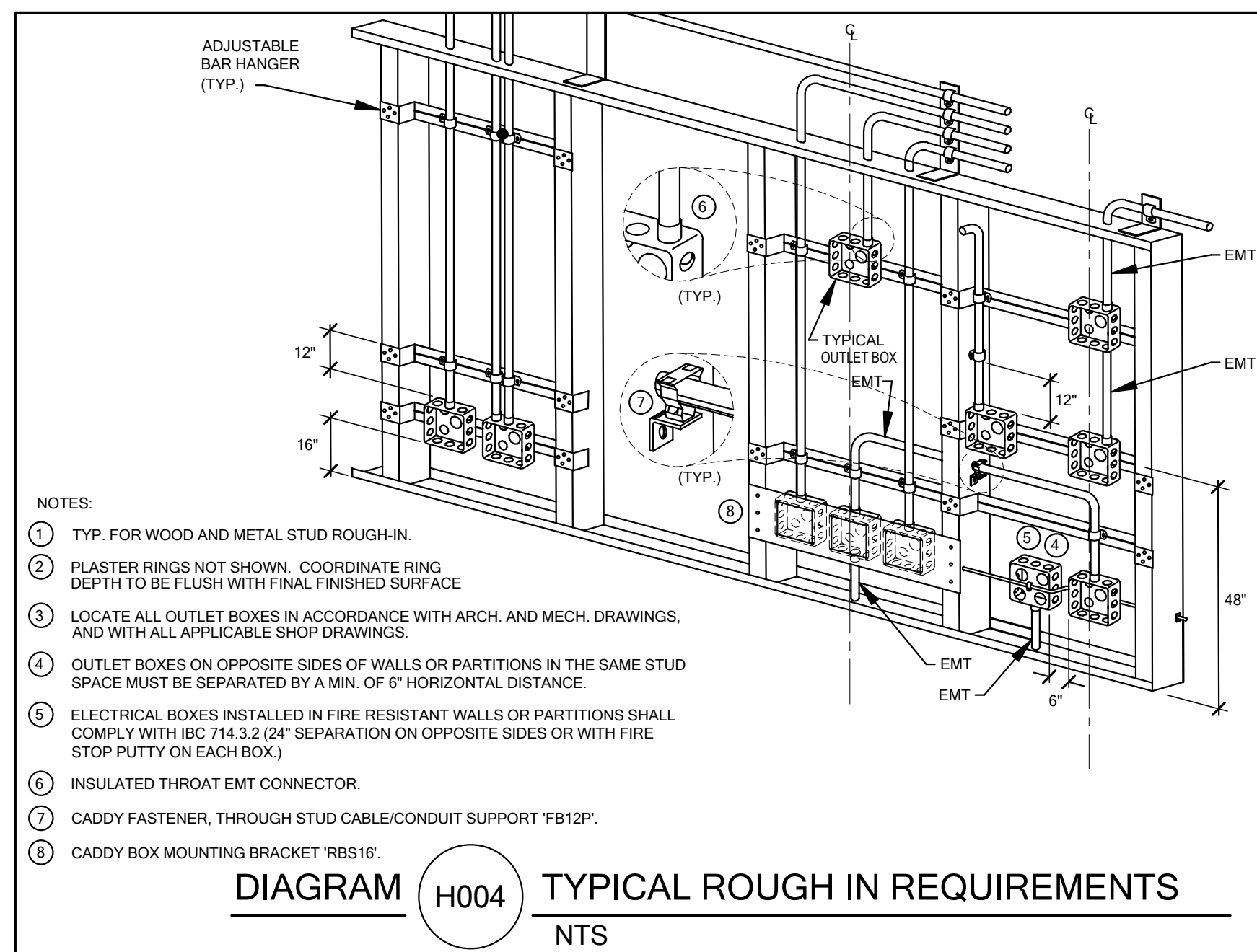
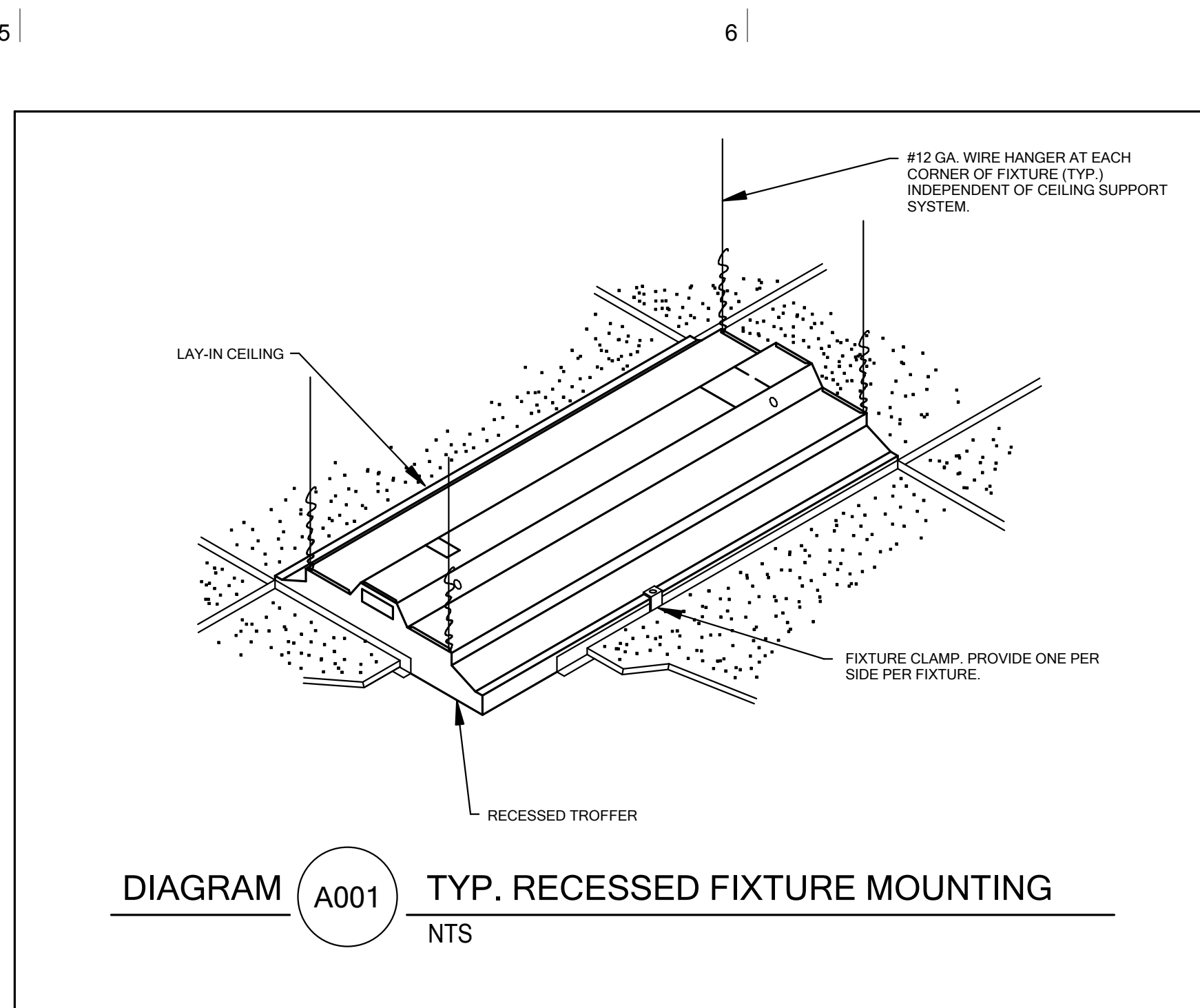
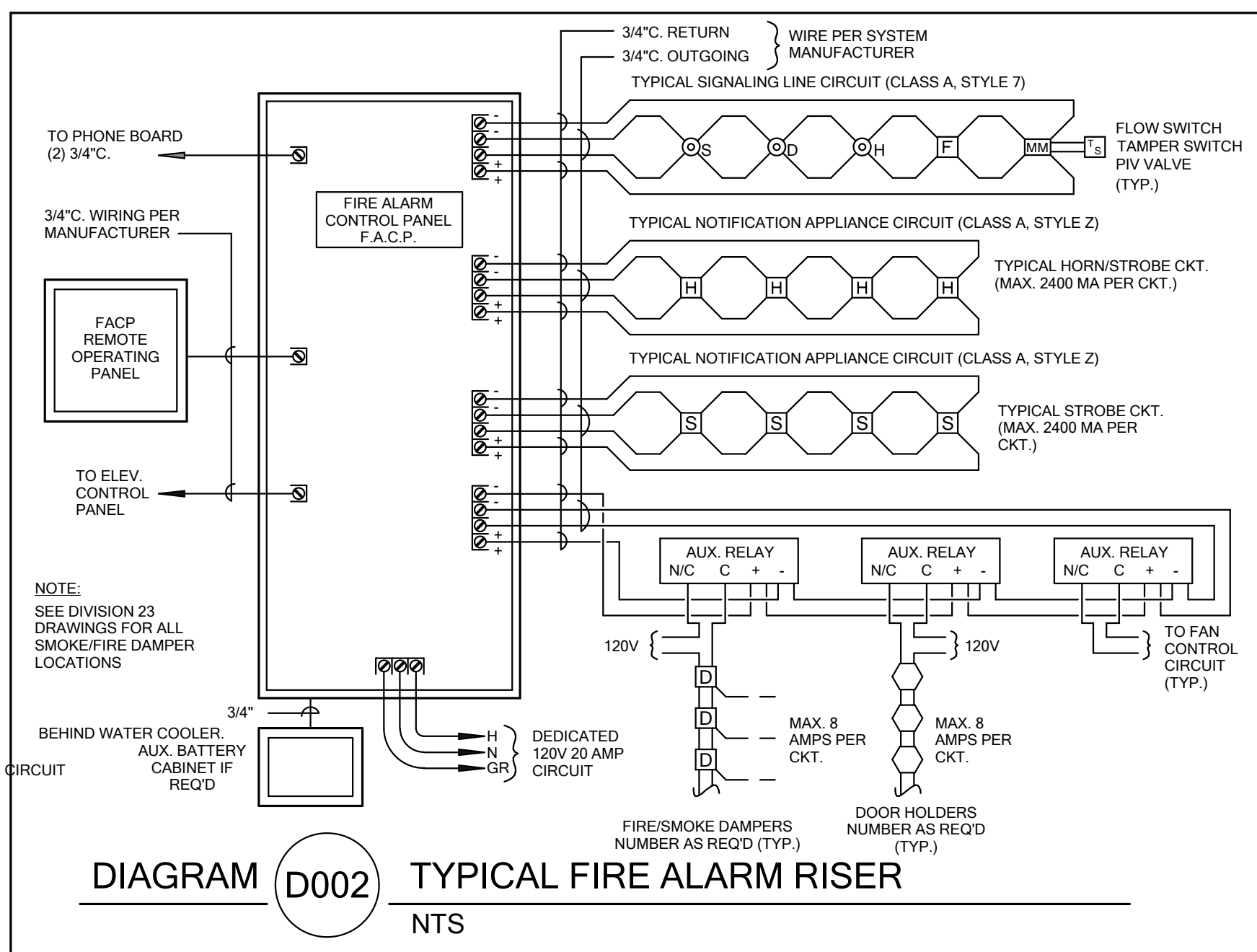
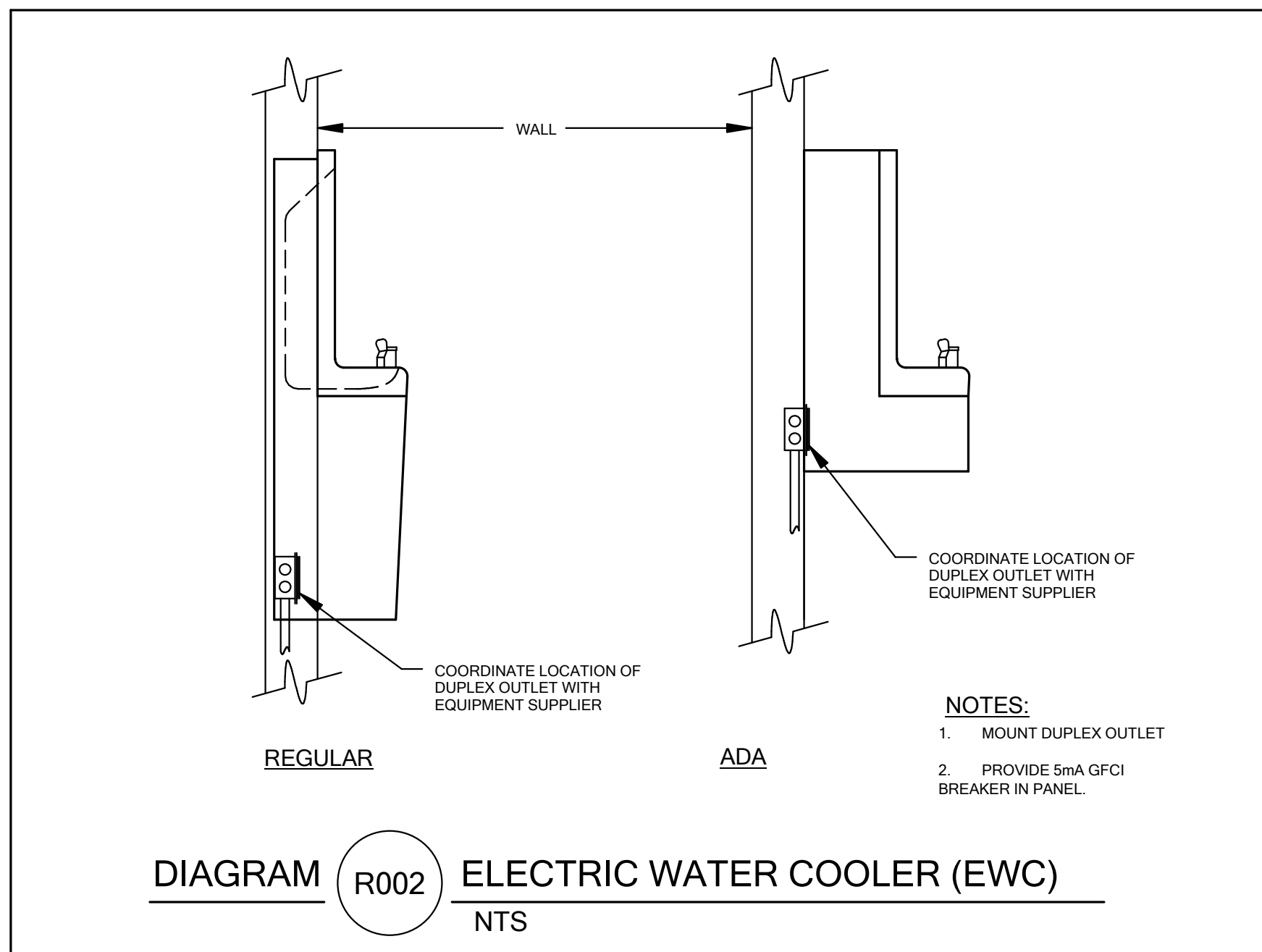
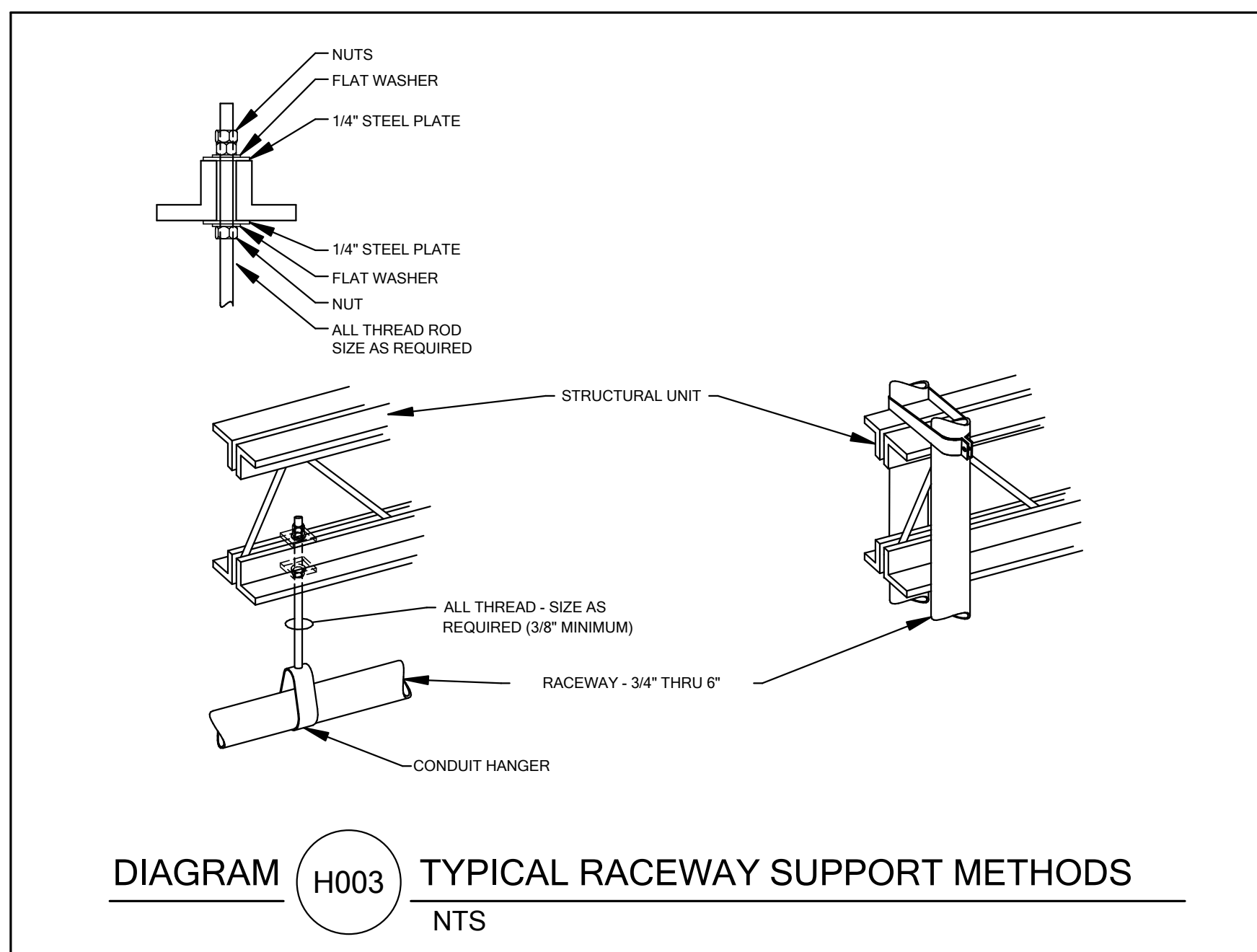
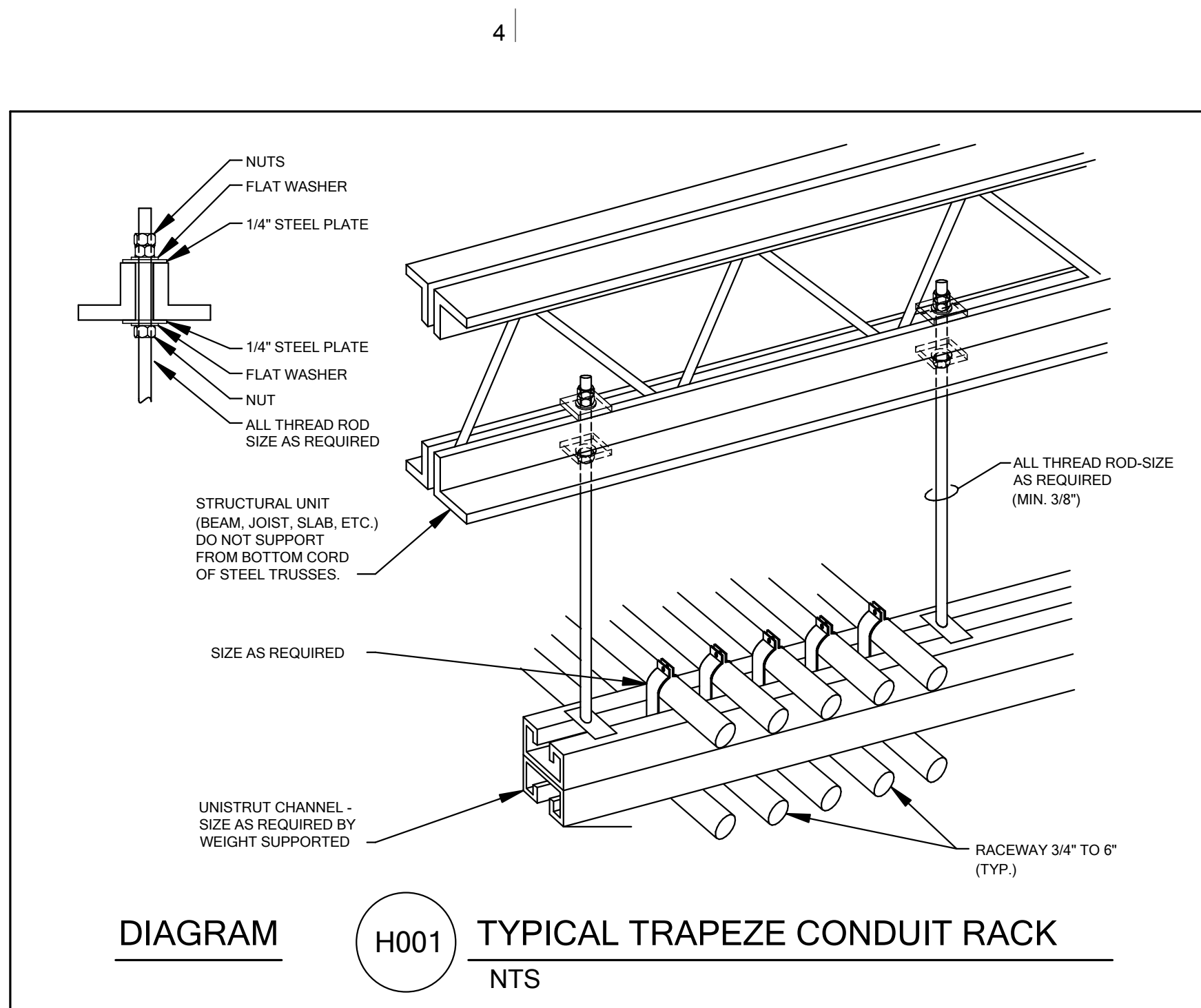
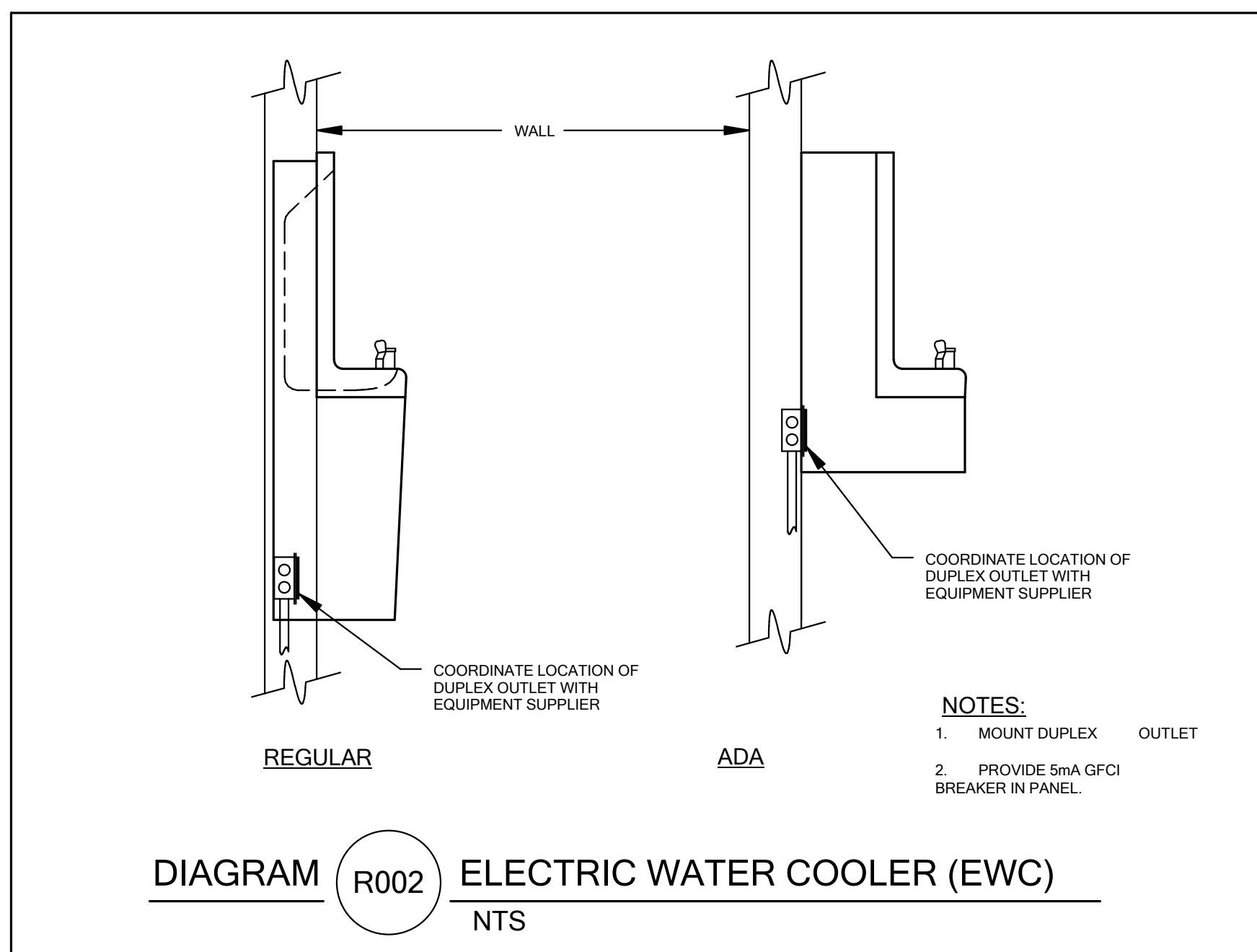
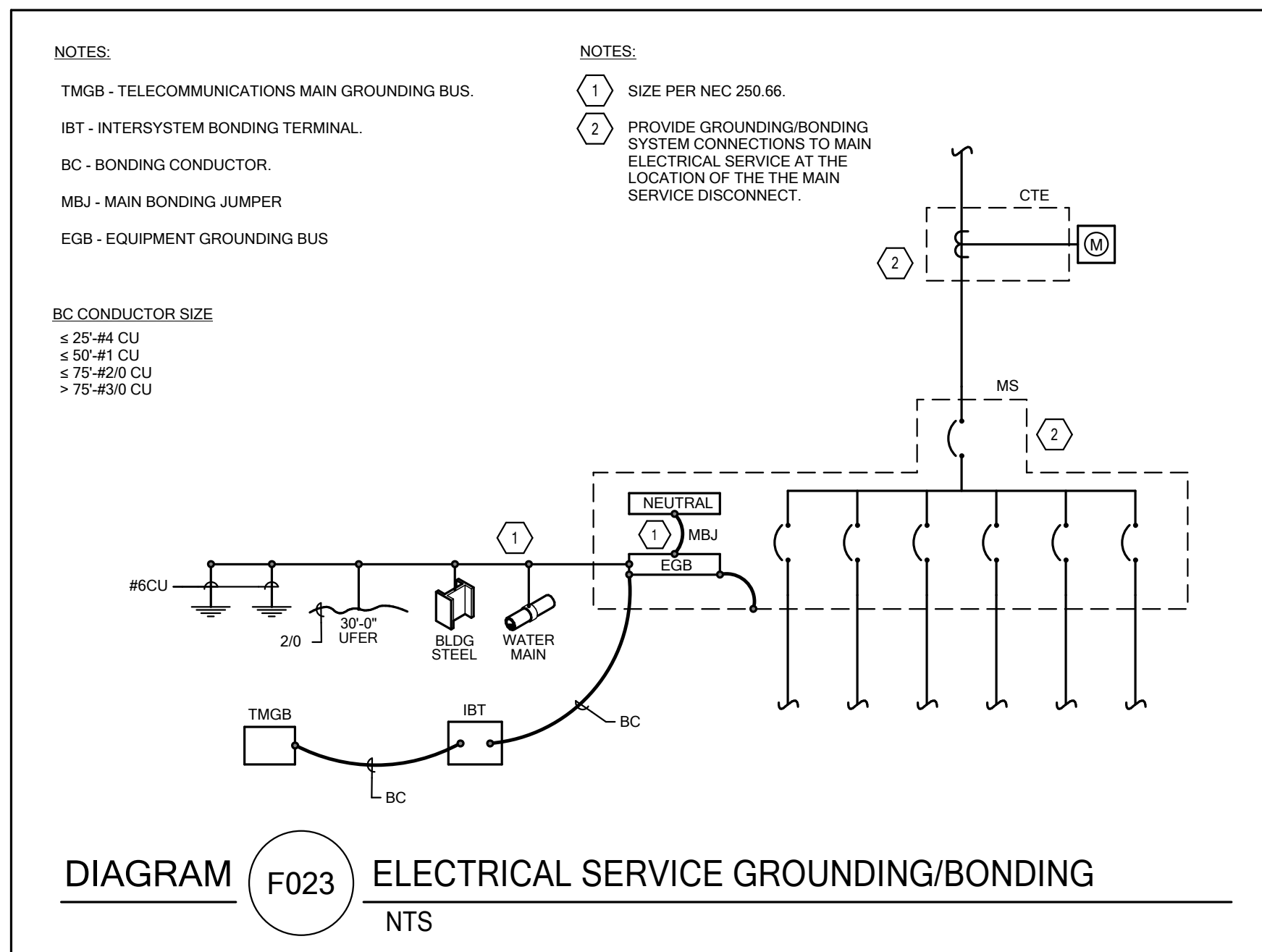
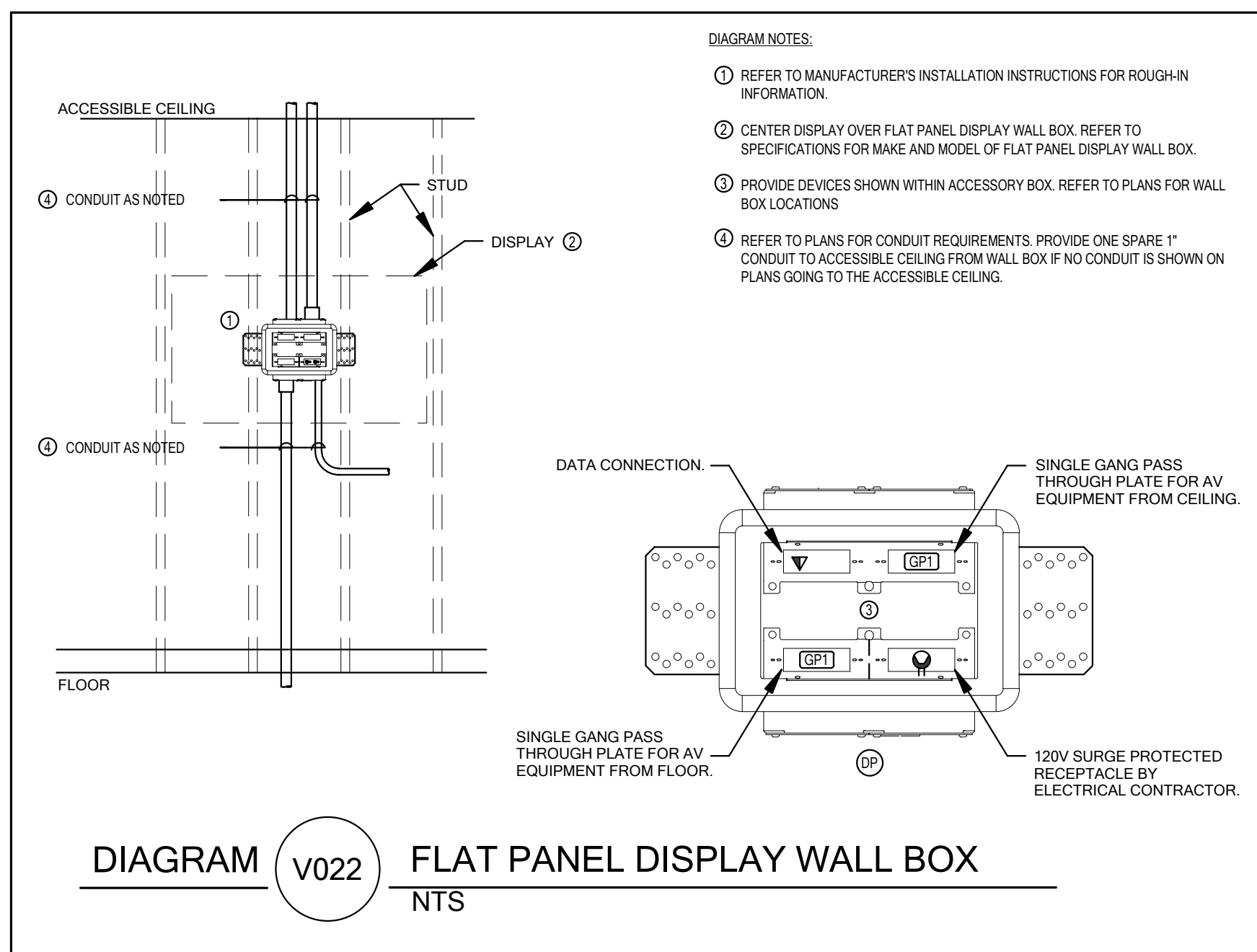
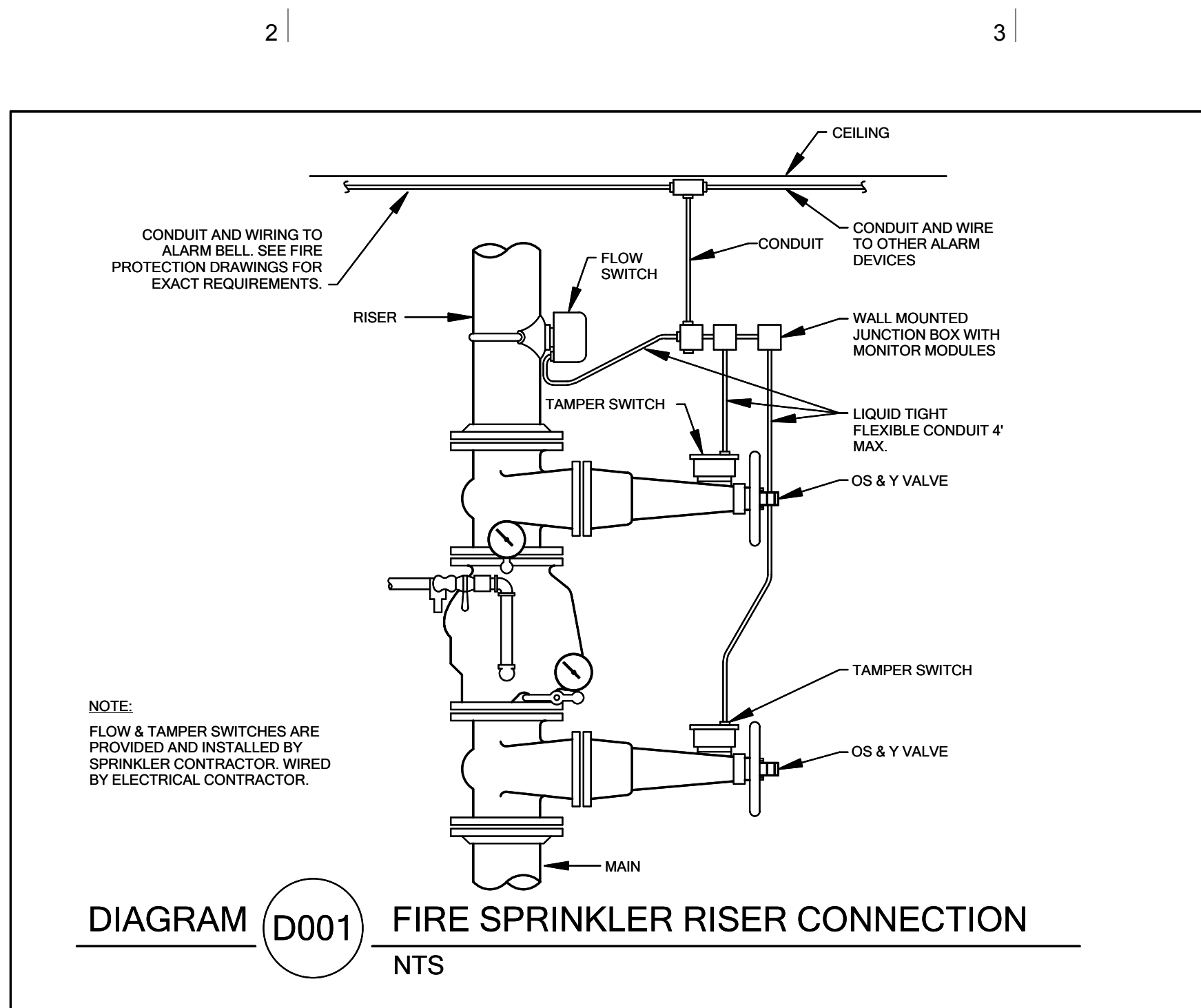
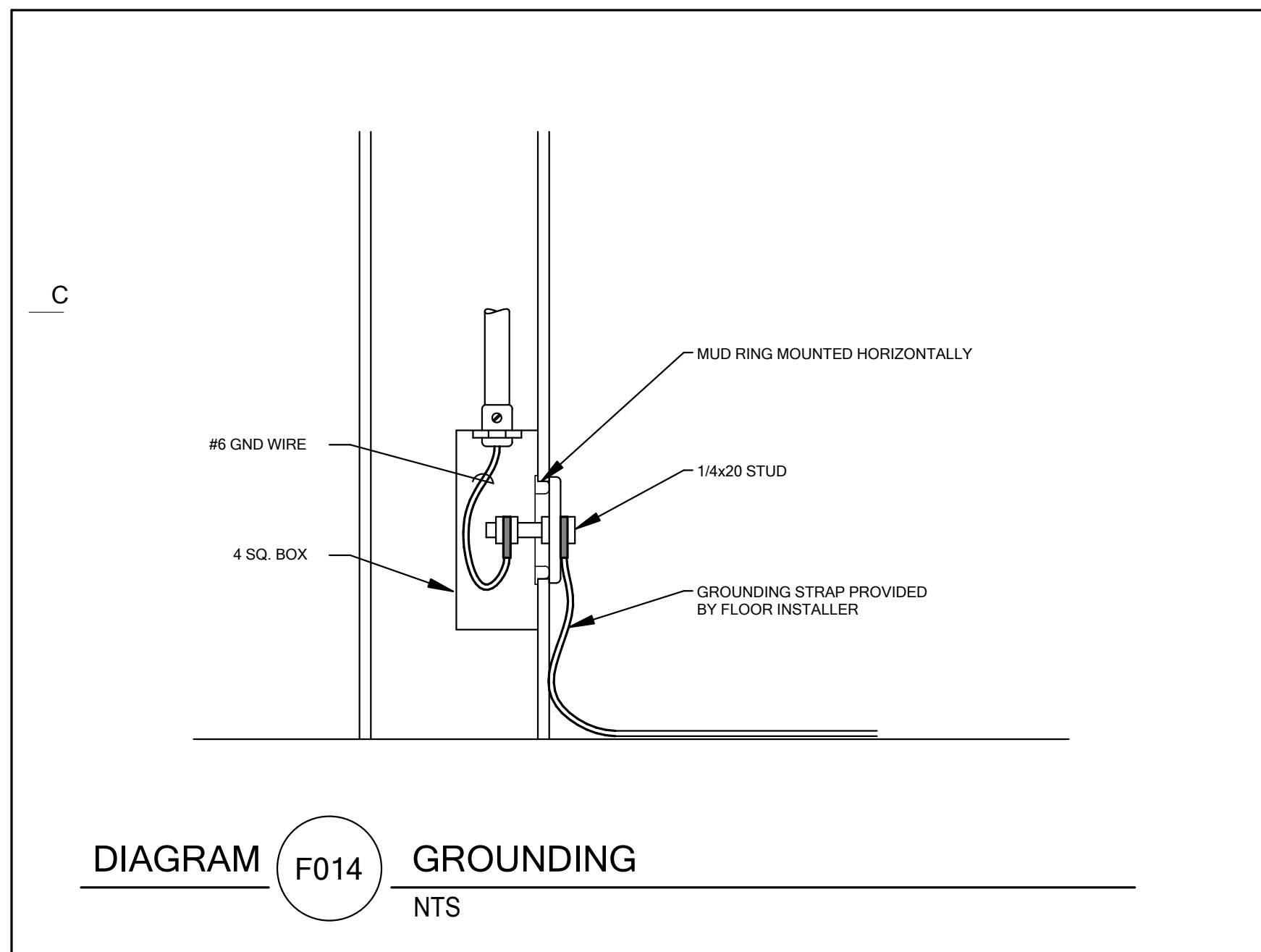
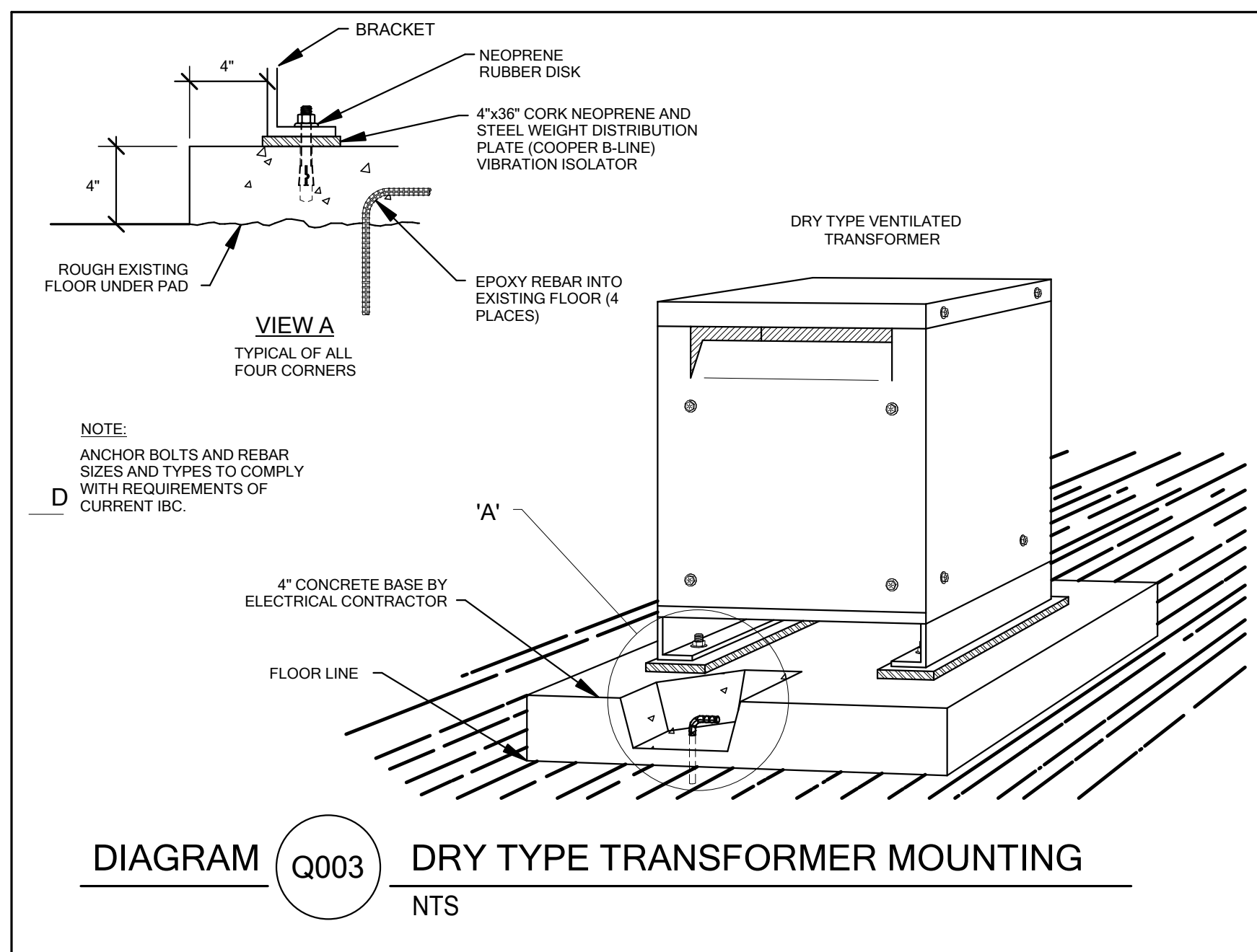
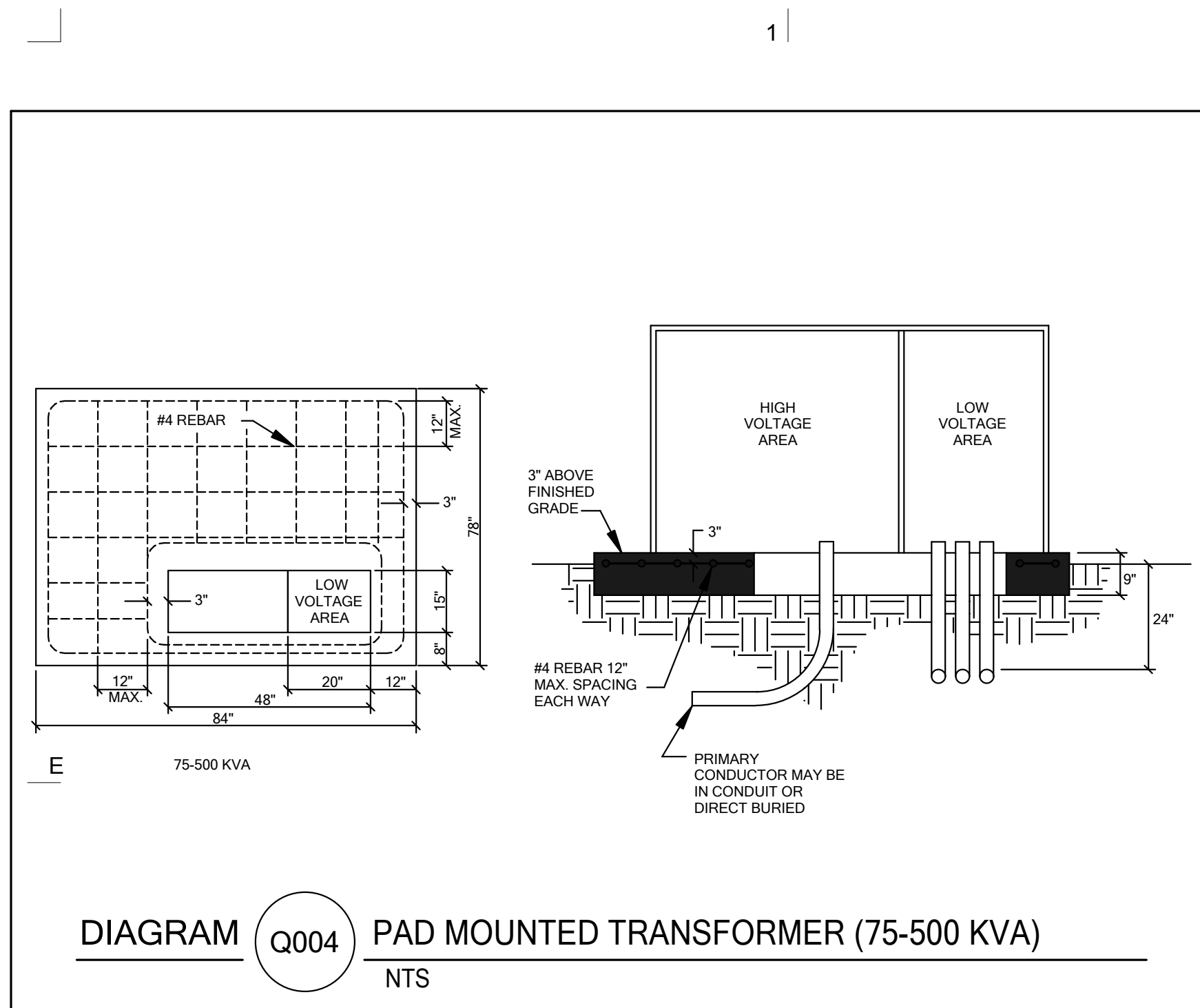
Legend:

\* PROVIDE 5mA GFCI CIRCUIT BREAKER

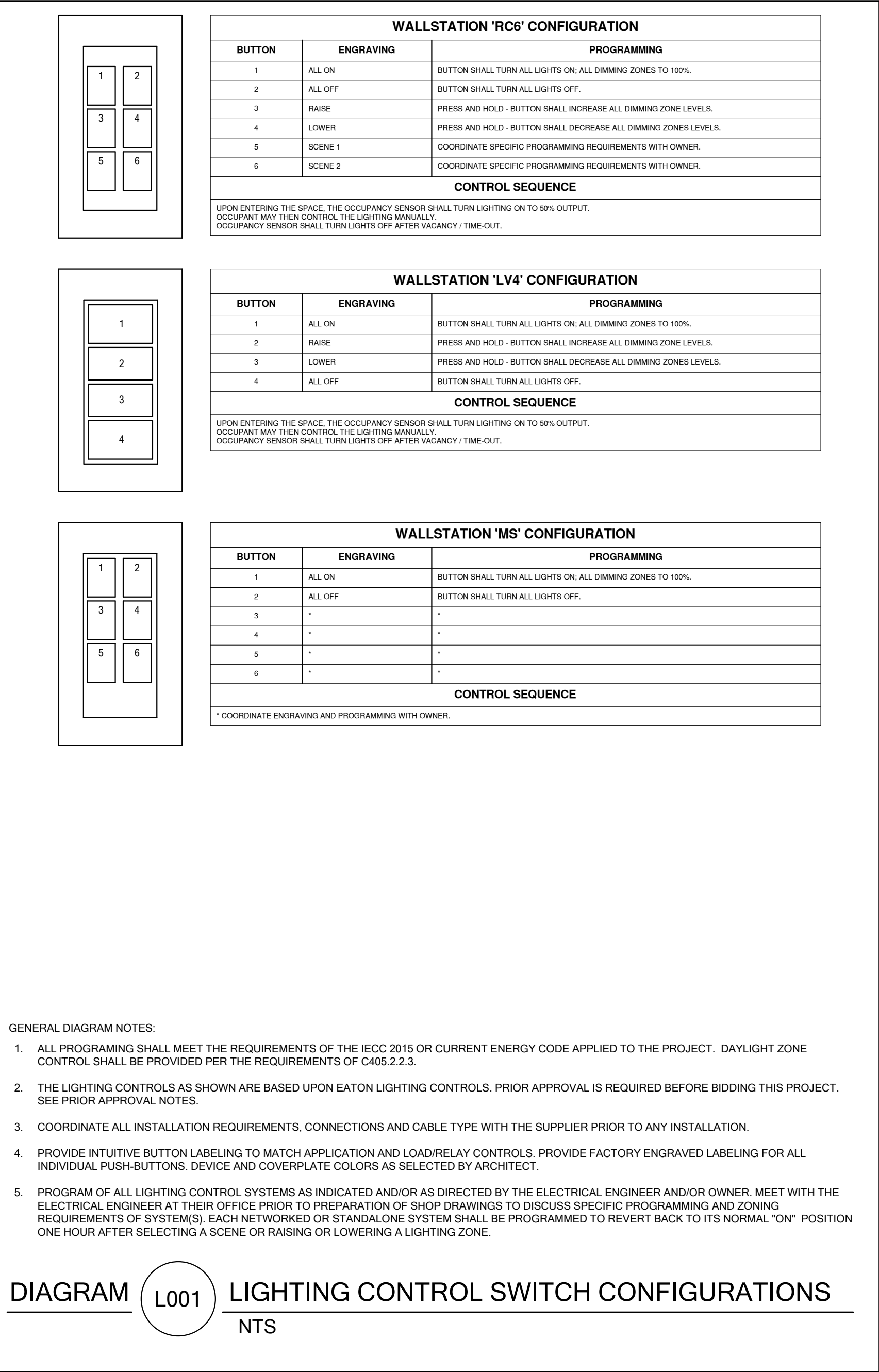
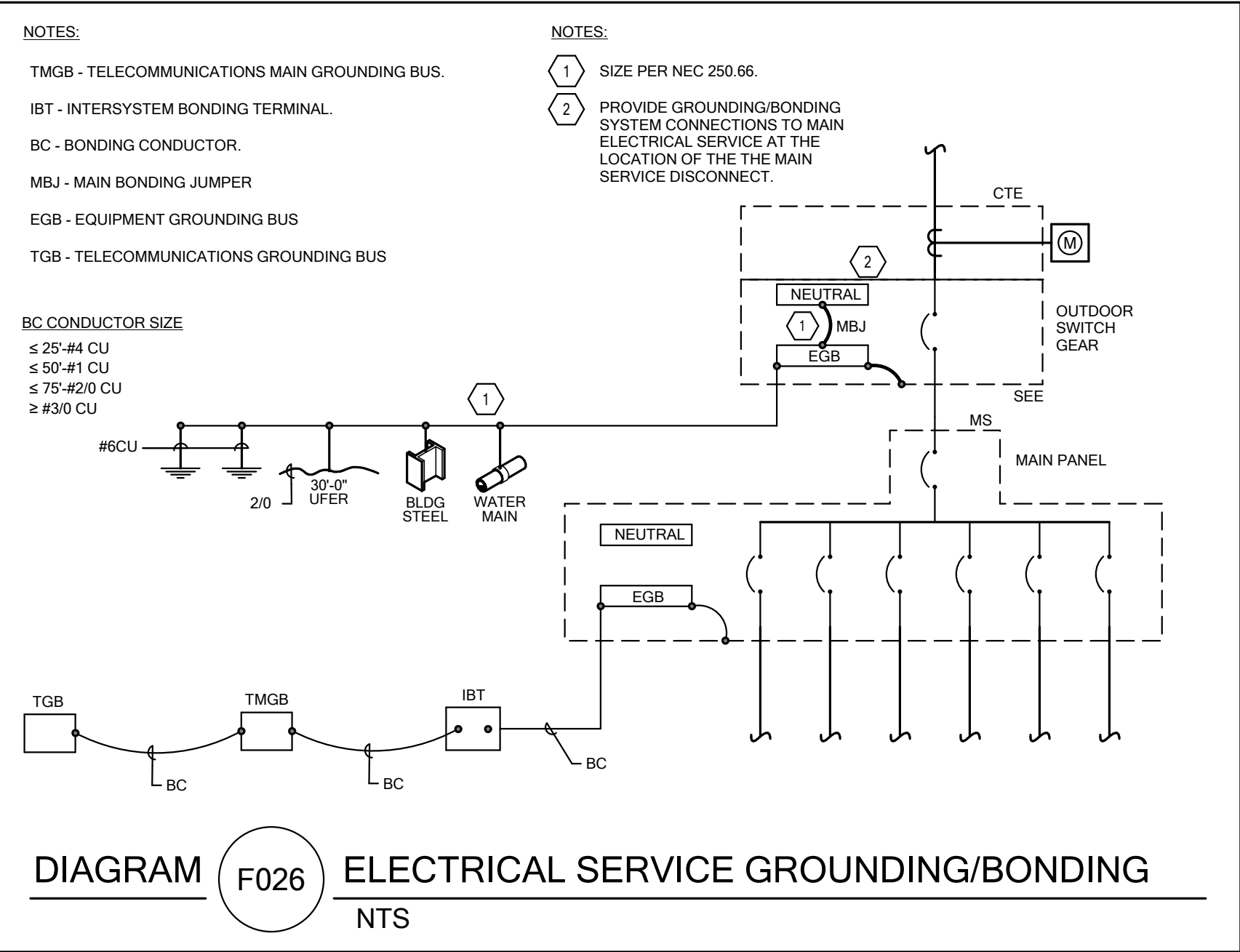
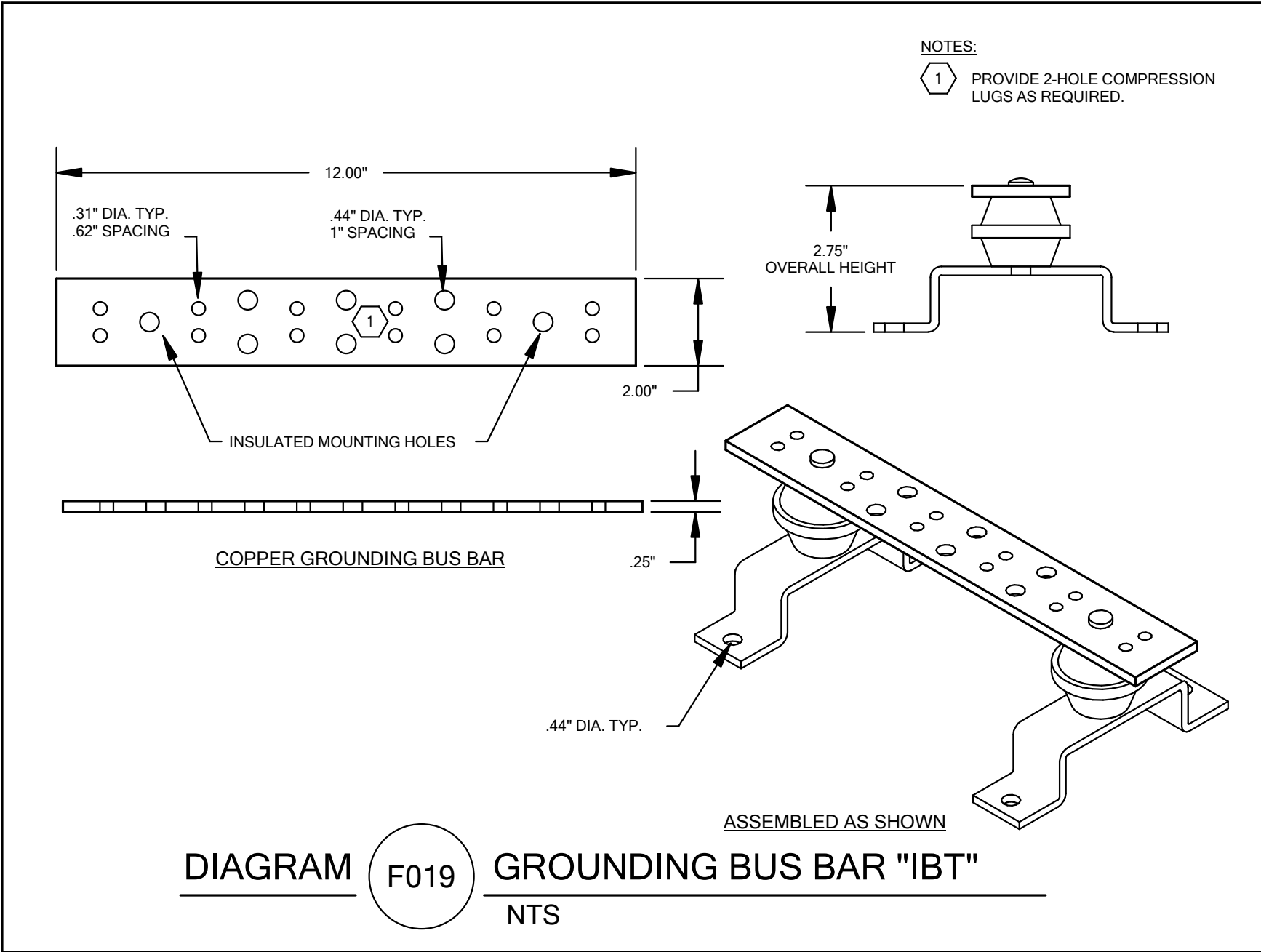
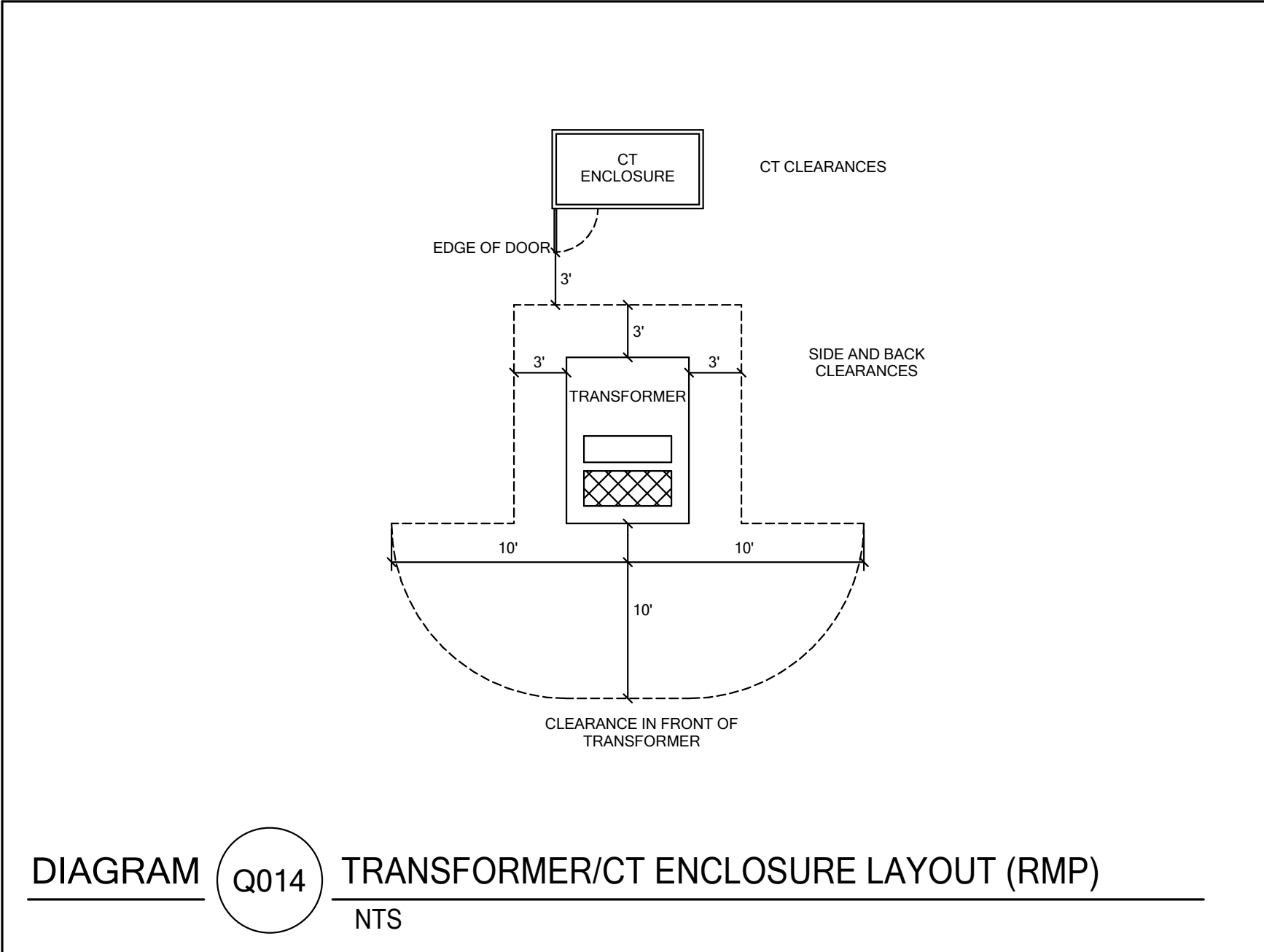
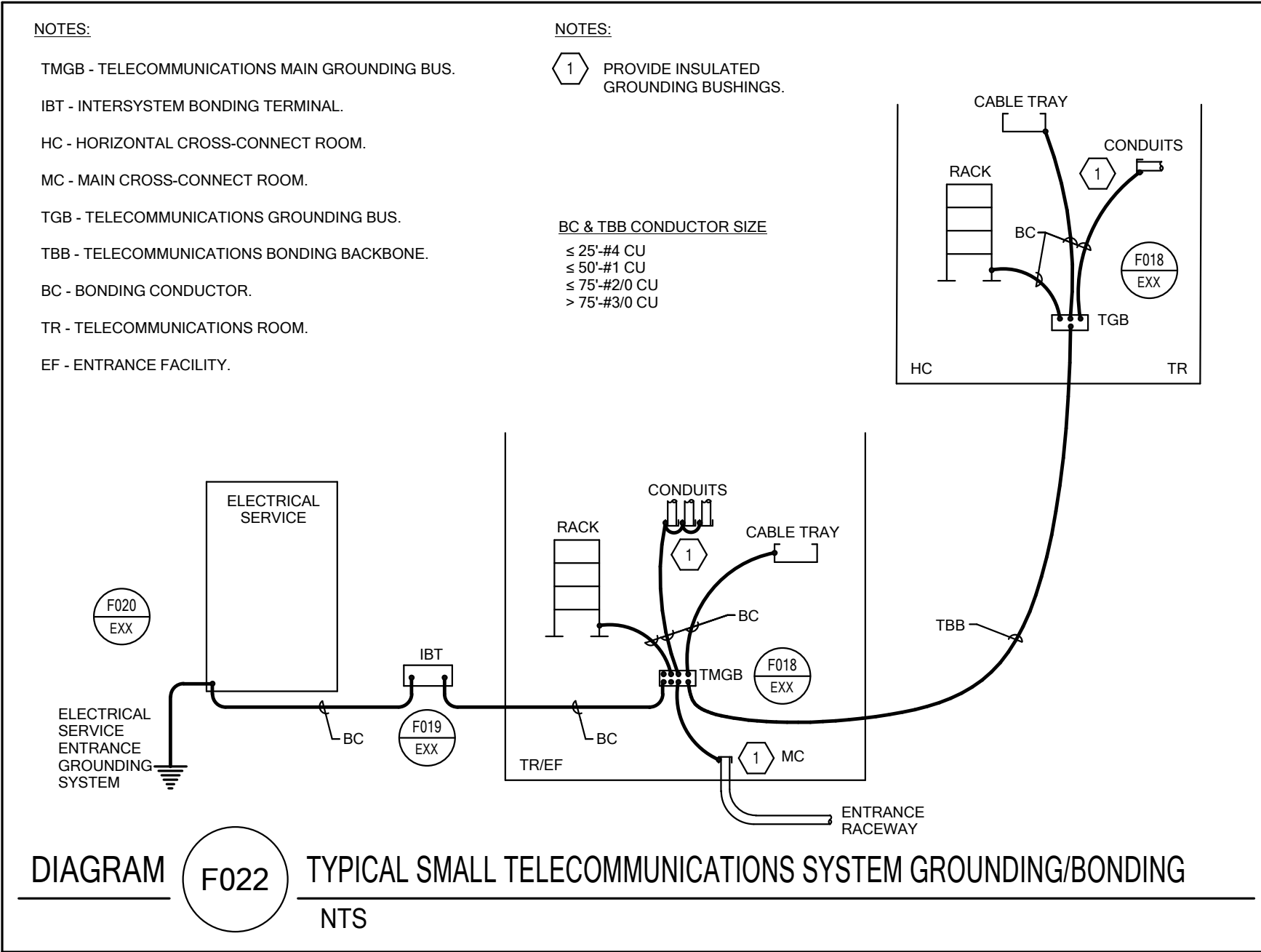
AIC RATING

AMPS RMS SYSM.











SYMBOL

TO R1' (A-Z)

DESTINATION

a = TO ACCESSIBLE CEILING

e = CONDUIT BACK TO EQUIPMENT

CONDUIT SIZE CHART

A = 3/4" CONDUIT

B = 1" CONDUIT

C = 1 1/4" CONDUIT

D = 1 1/2" CONDUIT

E = 2" CONDUIT

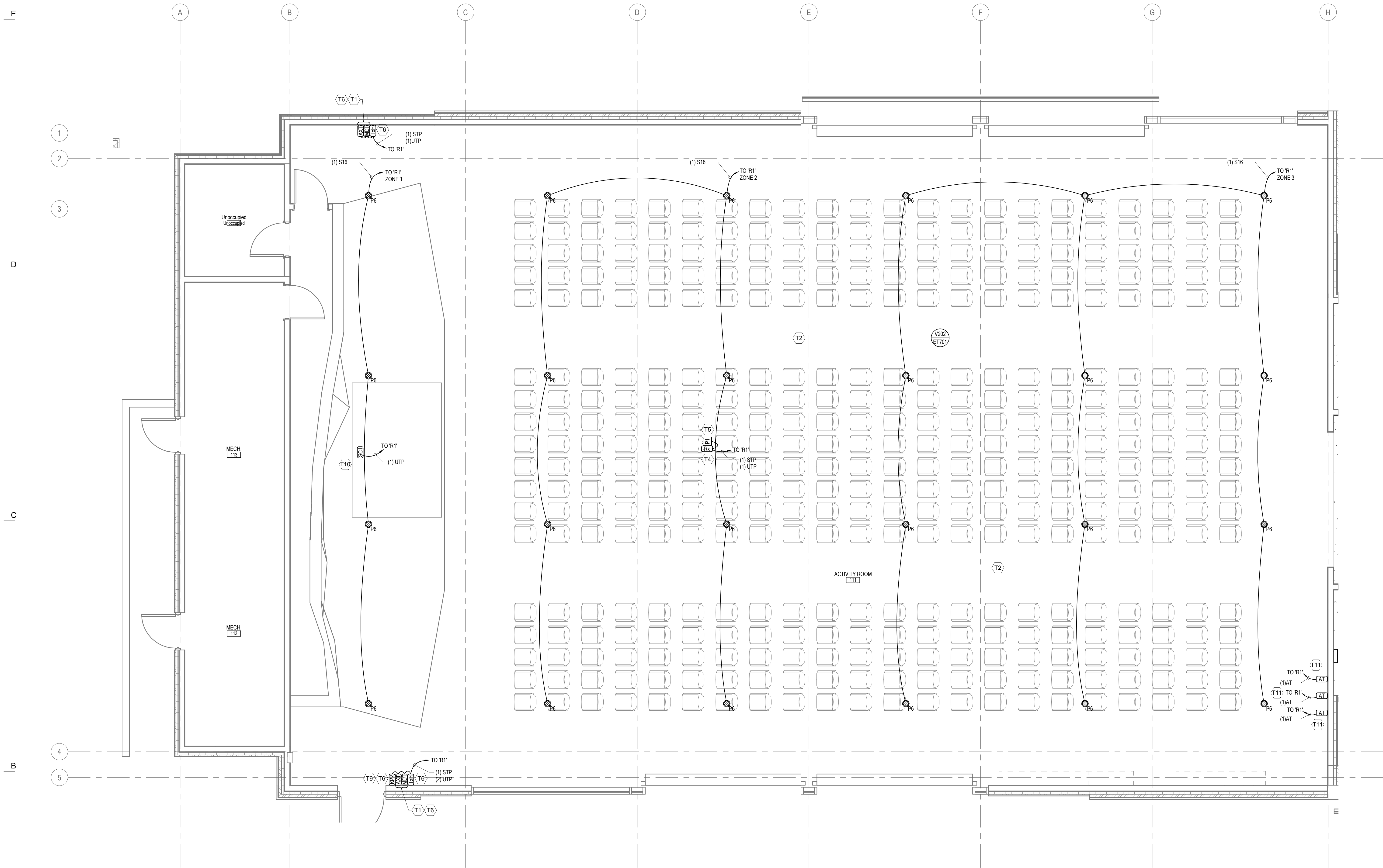
CONDUIT SIZE: REFER TO CHART FOR SIZES

NUMBER OF CONDUITS

NOTE: MATRIX REFERS TO RESPONSIBILITY BETWEEN OWNER AND CONTRACTORS FOR GENERAL ROUGH-IN AND FURNISHINGS.

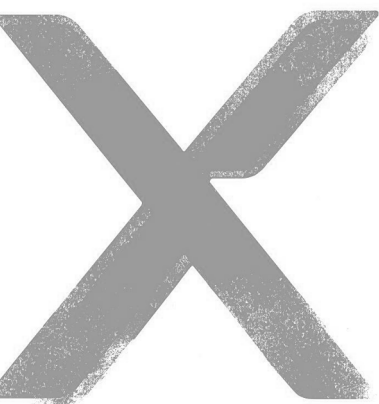


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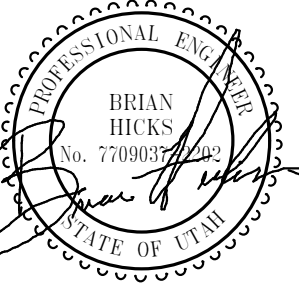
AREA A AV PLANS  
SCALE = 1/4" = 1'-0"

SHEET KEYNOTES	
T1	PROVIDE A B2E JUNCTION BOX FOR BOTH DEVICES. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
T2	INSTALL LOUDSPEAKERS LEVEL TO THE LOWEST STRUCTURAL BEAMS. ALL PENDANT LOUDSPEAKERS SHALL BE LEVEL WITH EACH ANOTHER. INSTALL A SEISMIC CABLE TO EACH LOUDSPEAKER TO THE STRUCTURE ABOVE.
T4	SECURE DEVICE TO TOP OF PROJECTOR.
T6	PROVIDE A POLYCARBONATE PROTECTIVE CASING FOR DEVICE(S). PROTECTIVE CASING SIMILAR TO A THERMOSTAT COVER.
T9	VERTICALLY ALIGN DEVICE WITH DEVICES BELOW.
T10	PROJECTION SCREEN SHALL BE SECURED TO THE CEILING AWAY FROM ROCK-WALL. COORDINATE EXACT LOCATION WITH OWNER.



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# Date Revision

CONSTRUCTION  
DOCUMENTS

NEXUS PROJ. #: 18065  
CHECKED BY: Checker  
DRAWN BY: Author  
DATE: 08.09.18

AREA A AV  
PLAN

ET301



09/20/18 5:26:30 PM

1

2

3

4

5

6

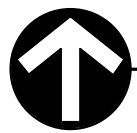
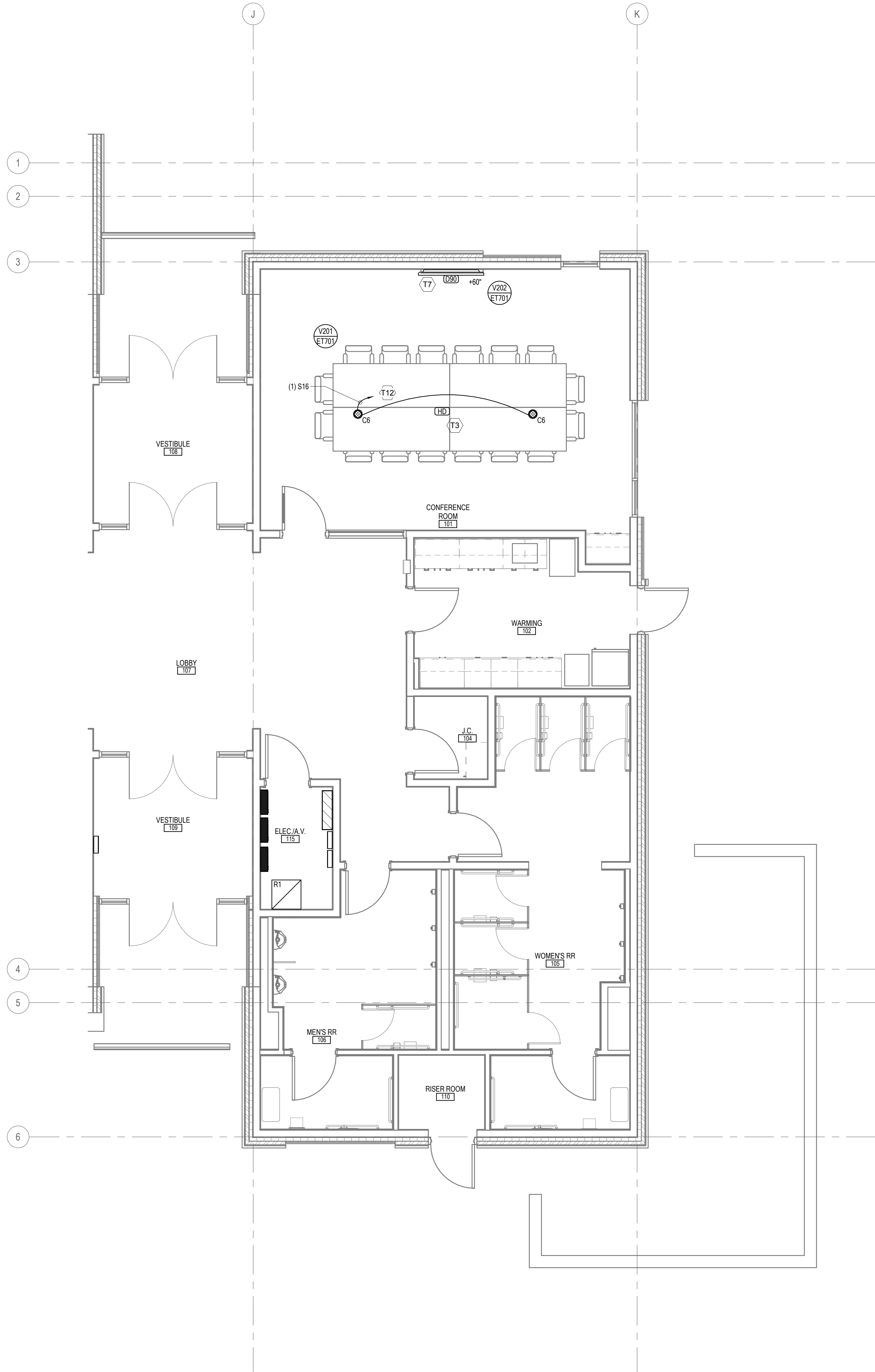
E

D

C

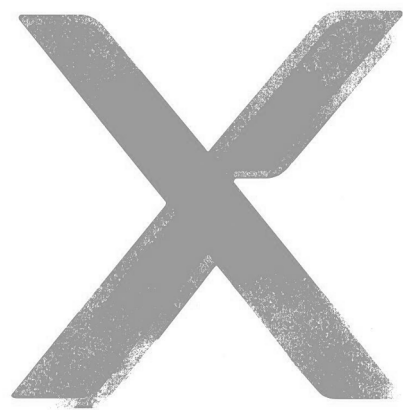
B

A



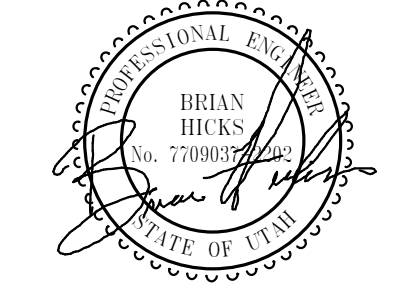
AREA B AV PLANS  
SCALE = 1/4" = 1'-0"

SHEET KEYNOTES	
T3	DEVICE IS LOCATED IN FLOOR BOX. COORDINATE WITH ELECTRICAL DRAWINGS FOR EXACT LOCATION OF DEVICE.
T7	SECURE AMPLIFIER TO REAR SIDE OF DISPLAY.
T12	HOMERUN TO AMPLIFIER LOCATED BEHIND DISPLAY.



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NEXUS PROJ. #: 18065  
CHECKED BY: Checker  
DRAWN BY: Author  
DATE: 08.09.18

**AREA B AV PLAN**

**ET302**



