



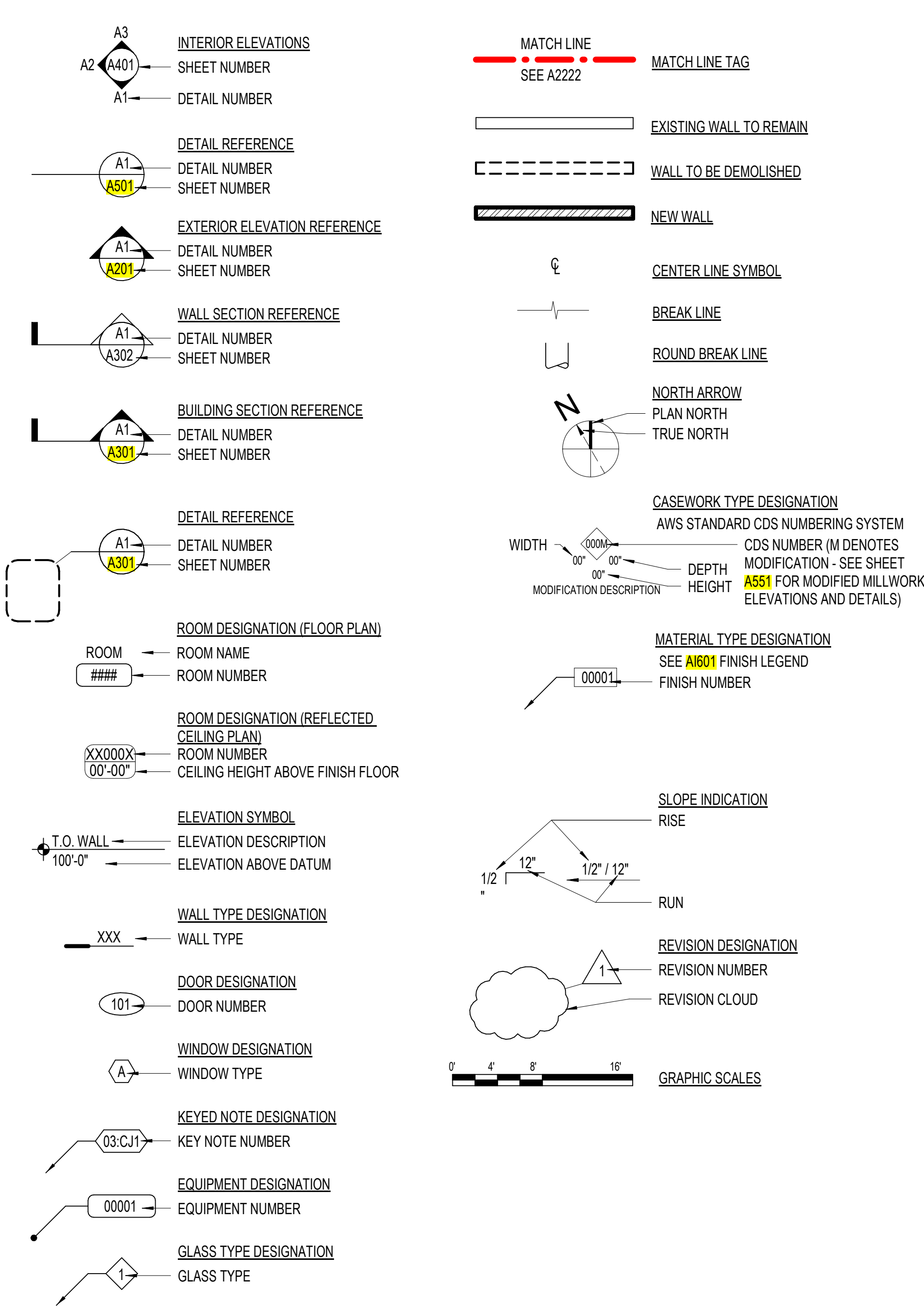


LIST OF ABBREVIATIONS

<b>A</b> A/C AD AFF AHU ALUM ANOD ARCH @	AIR CONDITIONING AREA DRAIN ABOVE FINISHED CEILING ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM ANODIZED ARCHITECT AT	<b>G</b> GA GALV GFRC GFRG GL GWB GYP	GAUGE GALVANIZED GLASS-FIBER-REINFORCED CONCRETE GLASS-FIBER-REINFORCED GYPSUM GLASS GYPSUM WALL BOARD GYPSUM	<b>R</b> R RAD RCP RD REF REQD REV RH RM RO RTU RWL	RISER OR RADIUS RADIUS REFLECTED CEILING PLAN ROOF DRAIN REFRIGERATOR REQUIRED REVISION RELATIVE HUMIDITY ROOM ROUGH OPENING ROOF TOP UNIT RAIN WATER LEADER
<b>B</b> BD BLDG BO	BOARD BUILDING BOTTOM OF	<b>H</b> H HB HDR HM HPT HR HT	HIGH HOSE BIBB HEADER HOLLOW METAL HIGH POINT HOUR HEIGHT	<b>S</b> S SAM SCHED SECT SIM SPEC SS STD STRUCT	SMOKE DETECTOR SELF ADHESIVE MEMBRANE SCHEDULE SECTION SIMILAR SPECIFICATION STAINLESS STEEL STANDARD STRUCTURAL
<b>C</b> C CH CFCI	CELSIUS COAT HOOK CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CORNER GUARD CONTINUOUS INSULATION CONTROL JOINT CENTERLINE CEILING CLOSET CLEAR CONCRETE MASONRY UNIT	<b>I</b> ID INFO INT	INSIDE DIAMETER, INSIDE DIMENSION INFORMATION INTERIOR	<b>T</b> T TEL TEMP THK TOC TOM TOP TOS TOW TYP TO	TREAD TELEPHONE TEMPORARY THICK TOP OF CONCRETE TOP OF MASONRY TOP OF PARAPET TOP OF SLAB, TOP OF STEEL TOP OF WALL TYPICAL TOP OF
<b>D</b> DEG DEMO DF DIA DIM DN DS DWGS	DEEP DEGREE DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DOWN DOWNSPOUT DRAWINGS	<b>J</b> JAN	JANITOR	<b>U</b> UL UNO	UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE
<b>E</b> EA EJ EIFS	EACH EXPANSION JOINT EXTERIOR INSULATION AND FINISH SYSTEM	<b>K</b> (NOT USED)		<b>V</b> VCT VERT VEST VIF	VINYL COMPOSITE TILE VERTICAL VESTIBULE VERIFY IN FIELD
<b>EL</b> ELEC ELEV EOS ERD EQ EQUIP EWC EXIST EXP EXT	ELEVATION ELECTRICAL ELEVATOR EDGE OF SLAB EXISTING ROOF DRAIN EQUAL EQUIPMENT ELECTRIC WATER COOLER EXISTING EXPOSED EXTERIOR	<b>L</b> LAB LAV LBS LLH LLV LPT	LABORATORY LAVATORY POUNDS LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT	<b>W</b> W W/O WD WH WP WRB <b>X,Y,Z</b>	WITH WITHOUT WOOD WALL HYDRANT WORKING POINT WEATHER RESISTIVE BARRIER (NOT USED)
<b>F</b> FA FACP FDC FD FEC FE FG FHC FIN FLR FND FO FOC FOM FOS FOW FRG FSP FT FV	FAHRENHEIT FIRE ALARM FIRE ALARM CONTROL PANEL FIRE DEPARTMENT CONNECTION FLOOR DRAIN FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FINISH GRADE FIRE HOSE CABINET FINISH FLOOR FOUNDATION FINISHED OPENING FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF WALL FIBER REINFORCED GYPSUM FIRE STANDPIPE FEET FIELD VERIFY	<b>M</b> MACH RM MAX MFR MECH MIN MO	MACHINE ROOM MAXIMUM MANUFACTURER MECHANICAL MEZZANINE MINIMUM MASONRY OPENING	<b>X</b> XX000X 00'-00"	
<b>N</b> N/A NIC NOM NTS	NOT APPLICABLE NOT IN CONTRACT NOMINAL NOT TO SCALE	<b>Q</b> OC OD OFD OH DR OPH OPP ORIG	ON CENTER OUTSIDE DIAMETER, OUTSIDE DIMENSION OVERFLOW DRAIN OVERHEAD DOOR OPPOSITE HAND OPPOSITE ORIGINAL	<b>P</b> P LAM PLAS PLUMB PR PSI PSF PVC	PLASTIC LAMINATE PLASTER PLUMBING PAIR POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT POLYVINYL CHLORIDE
<b>QT</b>	QUARRY TILE				

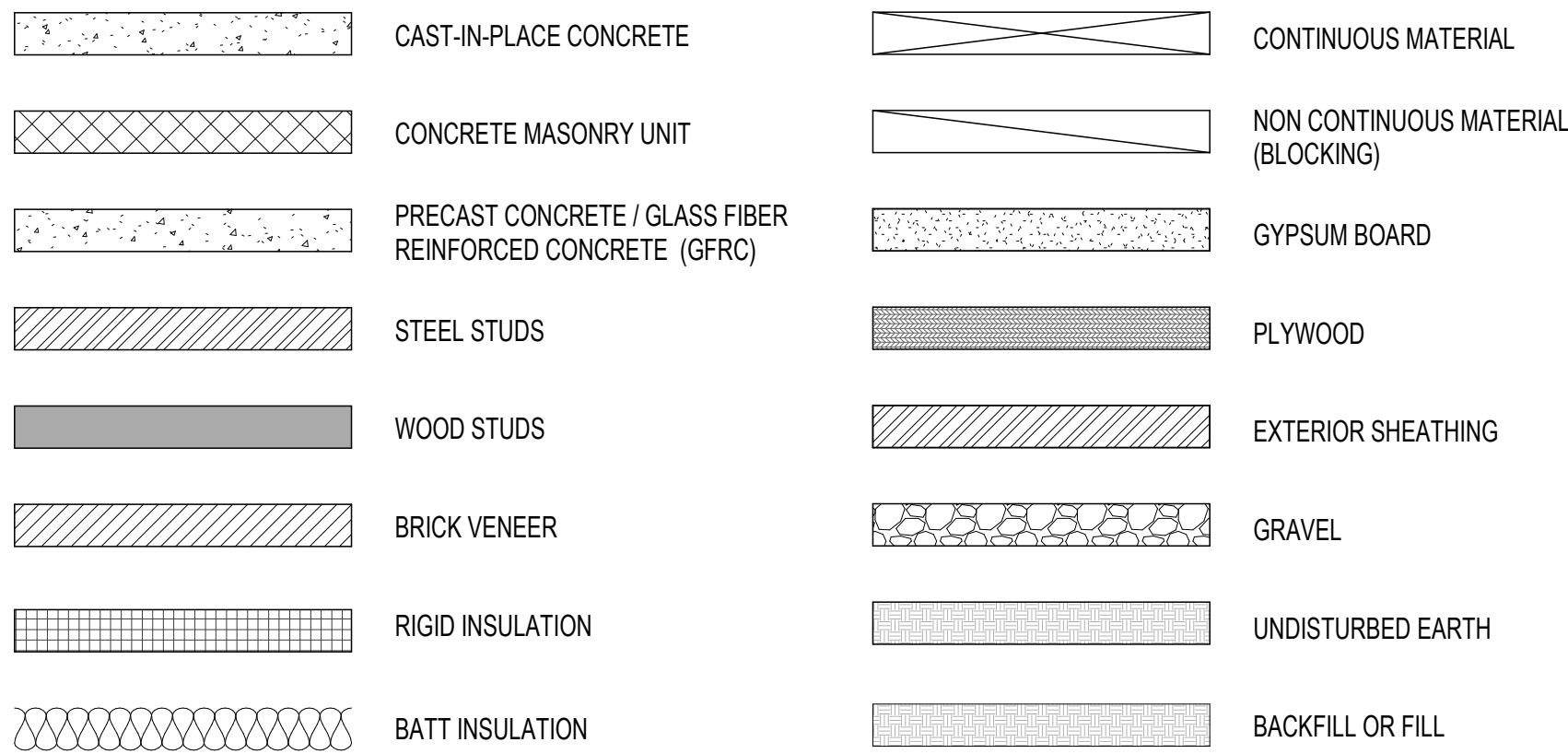
THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



HATCH LEGEND

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



SHEET INDEX

GENERAL:	COVER SHEET GENERAL INFORMATION LEVEL 01 EXISTING AND OCCUPANCY PLAN LEVEL 02 EXISTING AND OCCUPANCY PLAN ASSEMBLY TYPES ASSEMBLY TYPES
CIVIL:	OVERALL & EXISTING CONDITIONS SITE & GRADING PLAN UTILITY PLAN PLAN & PROFILE CONSTRUCTION MITIGATION PLAN DETAILS
LANDSCAPE:	SITE DEMOLITION PLAN ARCHITECTURAL SITE PLAN SITE IMPROVEMENTS, MATERIALS AND FINISHES SCHEDULE SITE DETAILS IRRIGATION PLAN IRRIGATION LEGEND IRRIGATION DETAILS IRRIGATION DETAILS IRRIGATION DETAILS PLANTING PLAN (GROUND PLANE) PLANTING PLAN PLANTING LEGEND PLANTING DETAILS
STRUCTURAL:	STRUCTURAL NOTES SCHEDULES SCHEDULES FOOTING AND FOUNDATION PLAN MAIN LEVEL SHEAR WALL & HOLDOWN PLAN LEVEL 2 FLOOR & ROOF FRAMING PLANS DETAILS DETAILS DETAILS DETAILS DETAILS DETAILS ELEVATIONS ELEVATIONS SCHEMATIC REFERENCE
ARCHITECTURAL:	DEMOLITION PLAN LEVEL 01 - OVERALL FLOOR PLAN LEVEL 01 FLOOR PLAN - AREA 'A' LEVEL 01 FLOOR PLAN - AREA 'B' LEVEL 01 FLOOR PLAN - AREA 'C' LEVEL 02 - OVERALL FLOOR PLAN LEVEL 02 FLOOR PLAN - AREA 'C' ROOF PLAN ROOF DETAILS LEVEL 01 REFLECTED CEILING PLAN - AREA 'A' LEVEL 01 REFLECTED CEILING PLAN - AREA 'B' LEVEL 01 REFLECTED CEILING PLAN - AREA 'C' LEVEL 02 REFLECTED CEILING PLAN - AREA 'C' BUILDING ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS WALL SECTIONS CANOPY SECTIONS AND DETAILS ENLARGED STAIR AND ELEVATOR PLANS AND DETAILS ENLARGED STAIR PLANS AND DETAILS PLAN DETAILS SECTION DETAILS SECTION DETAILS SECTION DETAILS EXPANSION JOINT DETAILS MILLWORK PLANS, ELEVATIONS AND DETAILS DOOR SCHEDULE AND TYPES EXTERIOR STOREFRONT TYPES INTERIOR STOREFRONT TYPES DOOR AND WINDOW DETAILS TYPICAL DETAILS FINISH AND EQUIPMENT SCHEDULES

SHEET INDEX

MECHANICAL:	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS LEVEL 1 MECHANICAL ZONE PLAN LEVEL 2 MECHANICAL ZONE PLAN FIRE PROTECTION PLANS LEVEL 1 OVERALL MECHANICAL FLOOR PLAN LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'A' LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'B' LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'C' LEVEL 2 OVERALL MECHANICAL FLOOR PLAN LEVEL 2 MECHANICAL FLOOR PLAN - AREA 'C' MECHANICAL VIEW ISO MECHANICAL DETAILS ENLARGED MECHANICAL PLANS MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL SCHEDULES MECHANICAL SCHEDULES MECHANICAL SCHEDULES LEVEL 1 OVERALL PLUMBING FLOOR PLAN LEVEL 1 PLUMBING FLOOR PLAN - AREA 'A' LEVEL 1 PLUMBING FLOOR PLAN - AREA 'B' LEVEL 1 PLUMBING FLOOR PLAN - AREA 'C' LEVEL 2 OVERALL PLUMBING FLOOR PLAN LEVEL 2 PLUMBING FLOOR PLAN - AREA 'C' WASTE & VENT SCHEMATIC AND GAS SCHEMATIC ENLARGED RESTROOM PLANS PLUMBING DETAILS PLUMBING SCHEDULES
PLUMBING:	LEVEL 1 OVERALL PLUMBING FLOOR PLAN LEVEL 1 PLUMBING FLOOR PLAN - AREA 'A' LEVEL 1 PLUMBING FLOOR PLAN - AREA 'B' LEVEL 1 PLUMBING FLOOR PLAN - AREA 'C' LEVEL 2 OVERALL PLUMBING FLOOR PLAN LEVEL 2 PLUMBING FLOOR PLAN - AREA 'C' WASTE & VENT SCHEMATIC AND GAS SCHEMATIC ENLARGED RESTROOM PLANS PLUMBING DETAILS PLUMBING SCHEDULES
ELECTRICAL:	SYMBOLS, SCHEDULES AND NOTES ELECTRICAL SITE PLAN LEVEL 01 LIGHTING PLAN LEVEL 02 LIGHTING PLAN LEVEL 01 POWER PLAN LEVEL 02 POWER PLAN LEVEL 01 MECHANICAL POWER PLAN LEVEL 02 MECHANICAL POWER PLAN LEVEL 01 SYSTEMS PLAN LEVEL 02 SYSTEMS PLAN ONE-LINE DIAGRAM ELECTRICAL DIAGRAMS AV SYMBOLS, SCHEDULES AND NOTES LEVEL 01 AV PLAN AUDIOVISUAL DIAGRAMS



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NATIONAL ABILITY CENTER  
EQUESTRIAN CENTER EXPANSION  
1000 ABILITY WAY  
PARK CITY, UTAH 84060

# Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

GENERAL INFORMATION

G002



OCCUPANT LOAD/SPACE SCHEDULE - LEVEL 1				
Number	Room Name	Floor Area	S.F./PerPerson	Occupant Load
LEVEL 01				
102A	CLOSET	12 SF	300	1
103	HK	51 SF	300	1
106	CHECK-IN	105 SF	100	2
107	VOLUNTEER	77 SF	100	1
108	PRIVATE	61 SF	300	1
109	ELECTRICAL	51 SF	300	1
110	MECHANICAL	130 SF	300	1
111	VIEWING / LOUNGE	791 SF	15	53
112	PHYSICAL THERAPY	544 SF	100	6
113	MECHANICAL	253 SF	300	1
118	MEETING ROOM	711 SF	15	48
119	WARMING KITCHEN	236 SF	100	3
123	STUDENT CUBBIES	12 SF	50	1
124	MULTI-PURPOSE	1,908 SF	7	273
125	TABLE STORAGE	143 SF	300	1
127	ELECTRICAL	49 SF	300	1
128	FIRE RISER	34 SF	300	1
LEVEL 01: 17				396

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

FIRE RATED ASSEMBLY LEGEND	
FLOOR	
ROOF	
WALL	
	NO FIRE RATING
	NO FIRE RATING
	NO FIRE RATING
	1 HOUR RATING



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**LEVEL 01  
EXITING AND  
OCCUPANCY  
PLAN**

**G101**


**A1 LEVEL 01 - EXITING AND OCCUPANCY**  
G101 1/8" = 1'-0"




**FIRE RATED ASSEMBLY LEGEND**

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FLOOR


 NO FIRE RATING

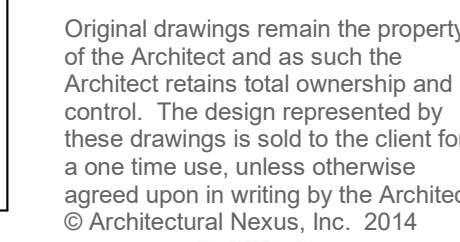
ROOF

 NO FIRE RATING

WALL

 NO FIRE RATING

 1 HOUR RATING



# G102



<div>WALL TYPE: <b>XW60.01</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW60.11</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW60.21</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW60.51</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW60.52</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW60.61</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>
<div>WALL TYPE: <b>XW60.62</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW80.11</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW80.21</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW80.22</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW80.51</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>XW80.52</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>
<div>WALL TYPE: <b>S85</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W46</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W46A</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W46AS</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W46M</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W46S</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>
<div>WALL TYPE: <b>W48</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W48P</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W48S</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W48T</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W61</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W66</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>
<div>WALL TYPE: <b>W66P</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W66S</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W66SW</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W68</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W68P</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>	<div>WALL TYPE: <b>W81</b></div> <div>FIRE RATING: FIRE TEST:</div> <div>HEIGHT: HEAD DETAIL: SILL DETAIL:</div> <div>SOUND RATING: SOUND TEST:</div> <div> </div>

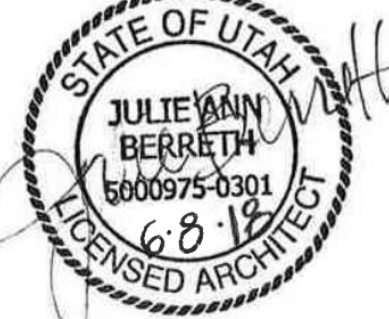
# GENERAL NOTE - ASSEMBLY TYPES

- 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 G503 WHERE APPLICABLE.
- 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.
- 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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# NATIONAL ABILITY CENTER EQUESTRIAN CENTER EXPANSION 1000 ABILITY WAY PARK CITY, UTAH 84060

# Date Revision

## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
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DRAWN BY: JPA  
DATE: 06.08.18

## ASSEMBLY TYPES

G501



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ABILITY CENTER  
**PANSION**  
1000 ABILITY WAY  
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# NATIONAL ABILITY CENTER EQUESTRIAN CENTER EXPANSION

#	Date	Revision
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## ASSEMBLY TYPES

# G502

3	ROOF TYPE: <b>RW00.11</b>	FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	4 NONE	3	ROOF TYPE: <b>RW00.31</b>	FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	5 NONE	3	ROOF TYPE: <b>RW00.32</b>	FIRE RATING: FIRE TEST: SOUND RATING: SOUND TEST:	5 NONE
	<p>SINGLE-PLY ROOF MEMBRANE</p> <p>FULLY ADHERED WATERPROOF MEMBRANE UNDERLAYMENT</p> <p>COVER BOARD</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>5/8" PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL</p> <p>AIR / VAPOR BARRIER</p> <p>+/- 7 1/8"</p>	<p>CORRUGATED METAL ROOF PANEL</p> <p>FULLY ADHERED WATERPROOF MEMBRANE UNDERLAYMENT</p> <p>COVER BOARD</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>3/4" PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL</p> <p>AIR / VAPOR BARRIER</p> <p>+/- 8 1/8"</p>	<p>CORRUGATED METAL ROOF PANEL TO MATCH EXISTING</p> <p>FULLY ADHERED WATERPROOF MEMBRANE UNDERLAYMENT</p> <p>COVER BOARD</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>3" POLYISOCYANURATE BOARD INSULATION</p> <p>3/4" PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL</p> <p>AIR / VAPOR BARRIER</p> <p>+/- 8 1/8"</p>								

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- B. ASSEMBLY THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN AT ACTUAL SIZE IN PLANS. IN REPERTURES, 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 SOUND RATING. IN REPERTURES, PROVIDE BATT INSULATION IN WALL TYPES THAT ARE PART OF THE EXTERIOR ENVELOPE

CEILING TYPE: <b>CS41.11</b>	FIRE RATING: 1 HR FIRE TEST: AER 09039 SOUND RATING: SOUND TEST:	CEILING TYPE: <b>CT00.31</b>	FIRE RATING: NONE FIRE TEST: SOUND RATING: SOUND TEST:	CEILING TYPE: <b>CT00.32</b>	FIRE RATING: NONE FIRE TEST: SOUND RATING: SOUND TEST:	CEILING TYPE: <b>CW30.11</b>	FIRE RATING: NONE FIRE TEST: SOUND RATING: SOUND TEST:	CEILING TYPE: <b>CW00.51</b>	FIRE RATING: NONE FIRE TEST: SOUND RATING: SOUND TEST:	CEILING TYPE: <b>CW30.51</b>	FIRE RATING: NONE FIRE TEST: SOUND RATING: SOUND TEST:
<p>1" GYPSUM SHAFT LINER BOARD</p> <p>4" C-H STUD FRAMING</p> <p>(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD</p>		<p>HANGER WIRE</p> <p>HEAVY DUTY T-BAR GRID SYSTEM</p> <p>2' X 4' LAY-IN ACOUSTICAL PANEL CEILING: REFER TO FINISH SCHEDULE AND LEGEND</p>		<p>HANGER WIRE</p> <p>HEAVY DUTY T-BAR GRID SYSTEM</p> <p>LAY-IN ACOUSTICAL PANEL CEILING TO BE CENTERED ON WINDOW SYSTEM</p>		<p>2"X4" WOOD STUD FRAMING @ 16" O.C.</p> <p>(1) LAYER 5/8" GYPSUM BOARD</p>		<p>5/8" PLYWOOD VENEER</p>		<p>2"X4" WOOD STUD FRAMING @ 16" O.C.</p> <p>5/8" PLYWOOD VENEER</p>	

FLOOR TYPE: <b>FG40.01</b>	FIRE RATING: NONE	FLOOR TYPE: <b>FW20.01</b>	FIRE RATING: NONE
FIRE TEST:		FIRE TEST:	
SOUND RATING:		SOUND RATING:	
SOUND TEST:		SOUND TEST:	

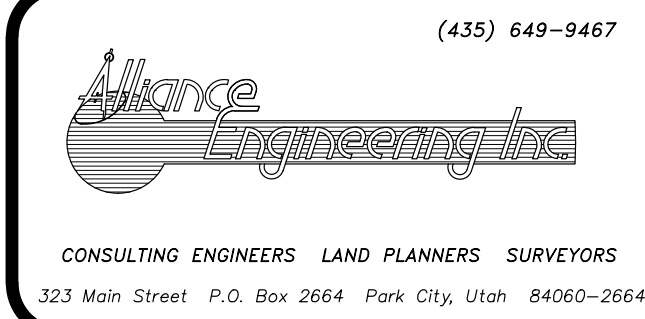
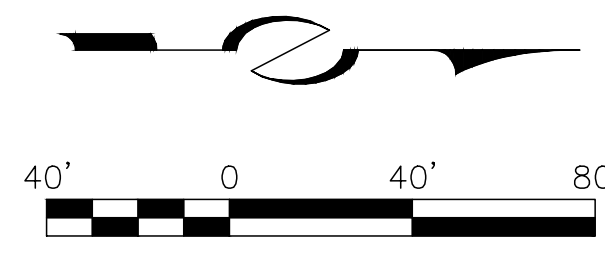
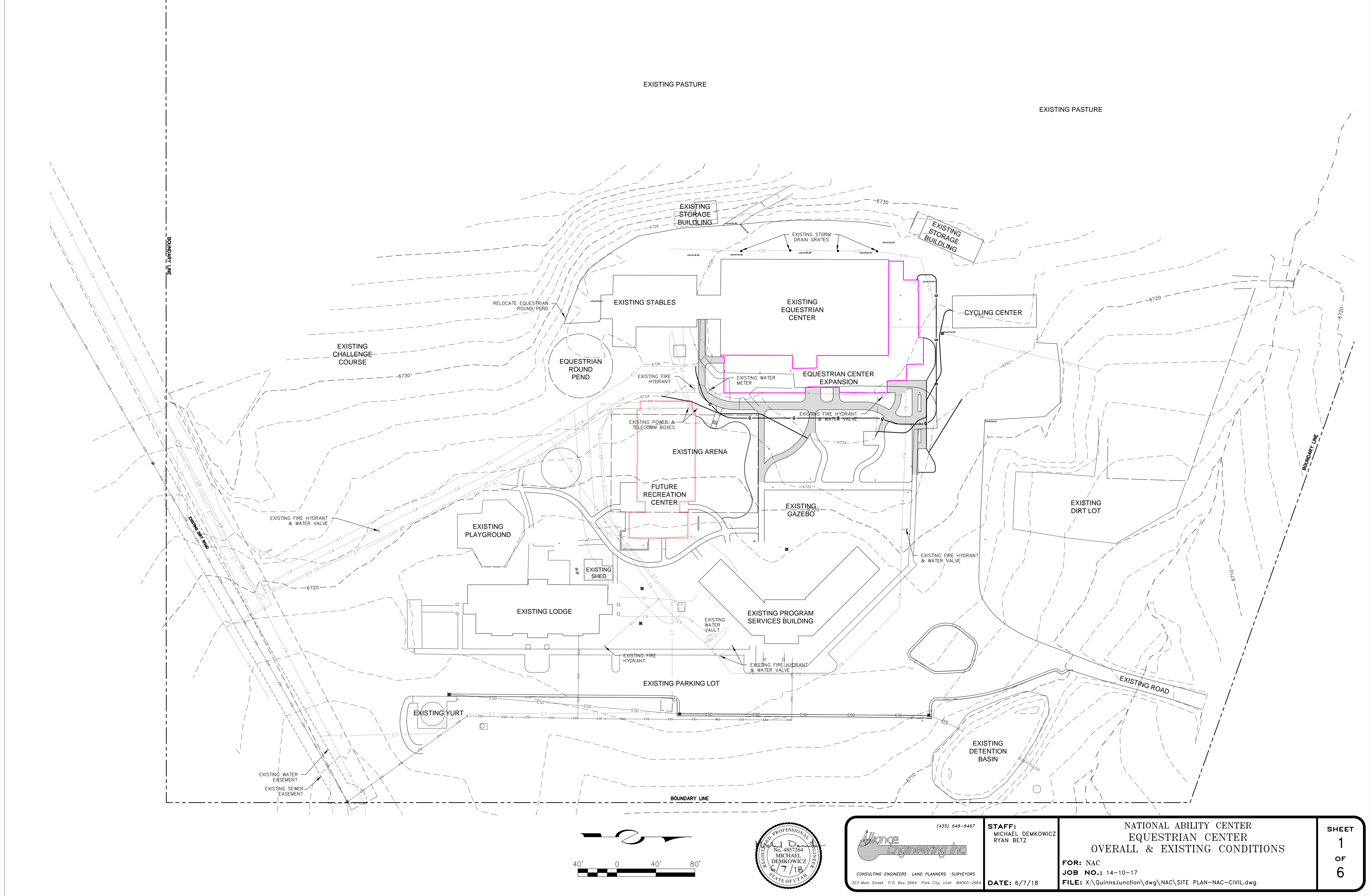
Diagram of floor FG40.01 cross-section. The assembly consists of a concrete slab with a scheduled finish on top. Below the slab is a vapor barrier, and below that is a compacted gravel sub-base. The diagram is labeled with 'SCHEDULED FINISH', 'CONCRETE SLAB. COORDINATE WITH STRUCTURAL', 'VAPOR BARRIER', and 'COMPACTED GRAVEL SUB-BASE'. A dimension line on the left indicates a height of 4" for the gravel sub-base.

Diagram of floor FW20.01 cross-section. The assembly consists of a 3/4 inch plywood sheathing with a scheduled finish on top. The diagram is labeled with 'SCHEDULED FINISH' and '3/4" PLYWOOD SHEATHING. COORDINATE WITH STRUCTURAL'.









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MICHAEL DEMKOWICZ  
RYAN BETZ

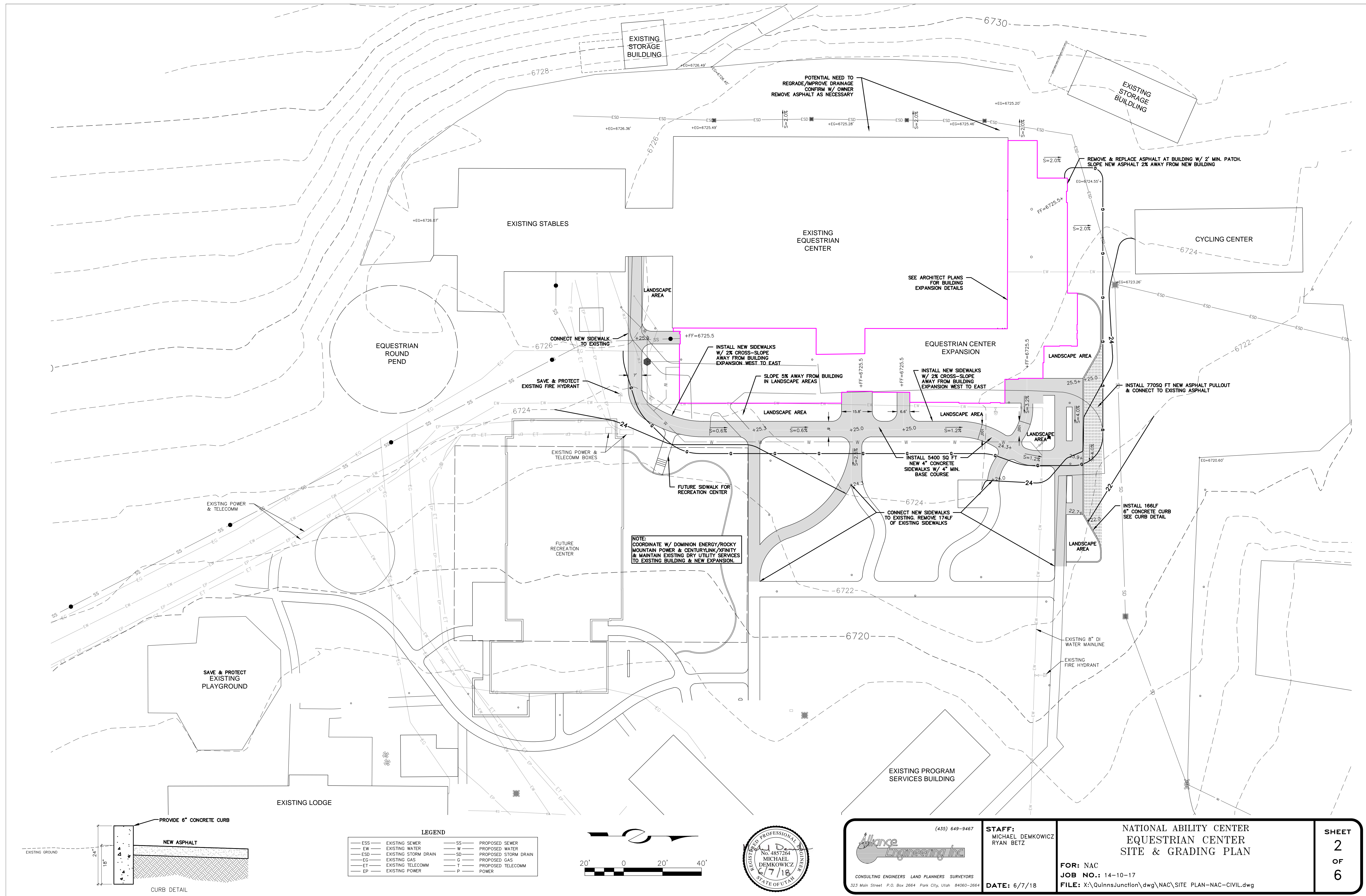
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OVERALL & EXISTING CONDITIONS**

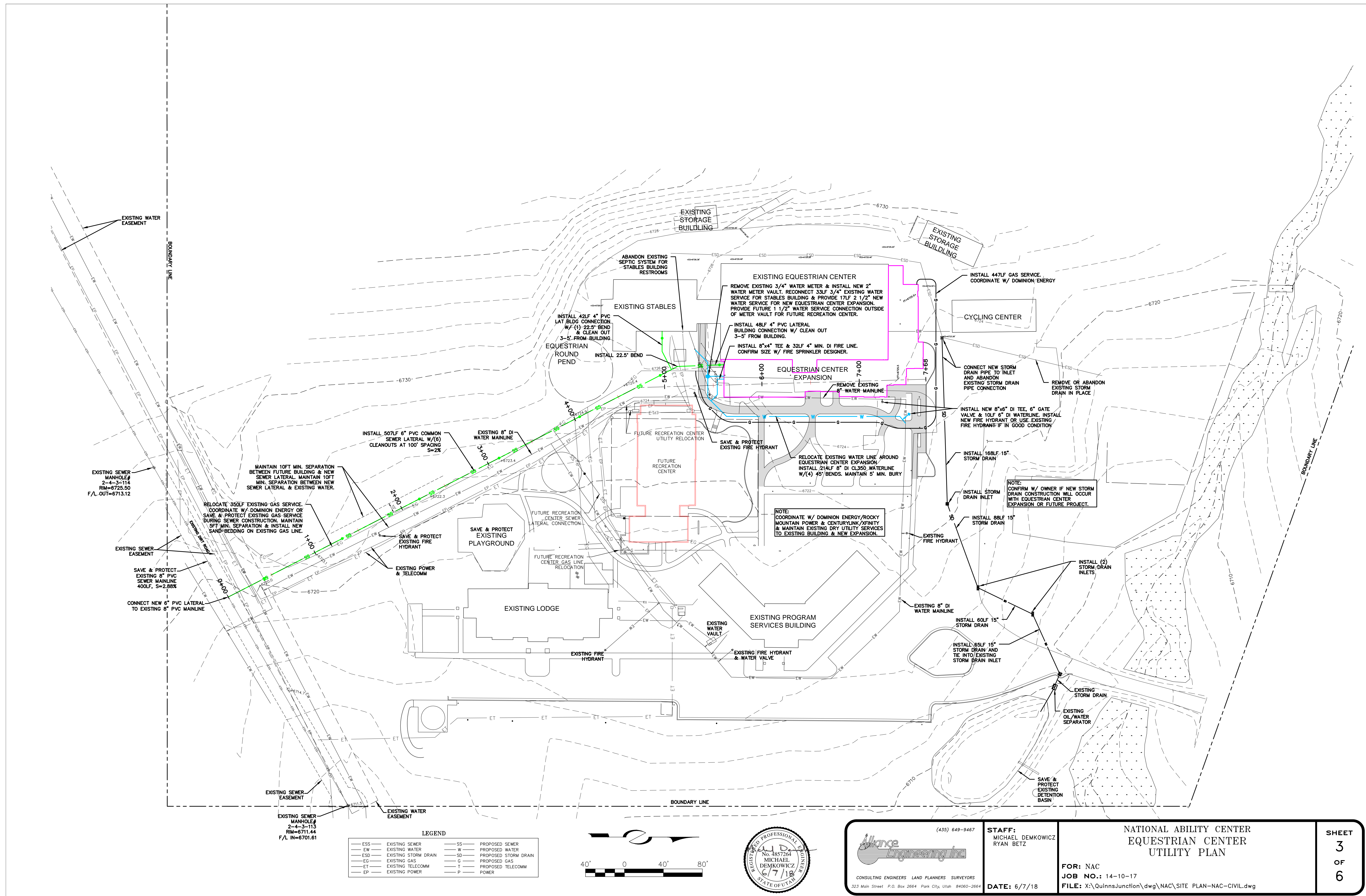
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**JOB NO.:** 14-10-17  
**FILE:** X:\QuinnsJunction\dwg\NAC\SITE PLAN-NAC-CIVIL.dwg

**SHEET**  
**1**  
**OF**  
**6**









LEGEND			
SS	EXISTING SEWER	SS	PROPOSED SEWER
EW	EXISTING WATER	EW	PROPOSED WATER
ESD	EXISTING STORM DRAIN	ESD	PROPOSED STORM DRAIN
EG	EXISTING GAS	EG	PROPOSED GAS
ET	EXISTING TELECOMM	ET	PROPOSED TELECOMM
EP	EXISTING POWER	EP	PROPOSED POWER



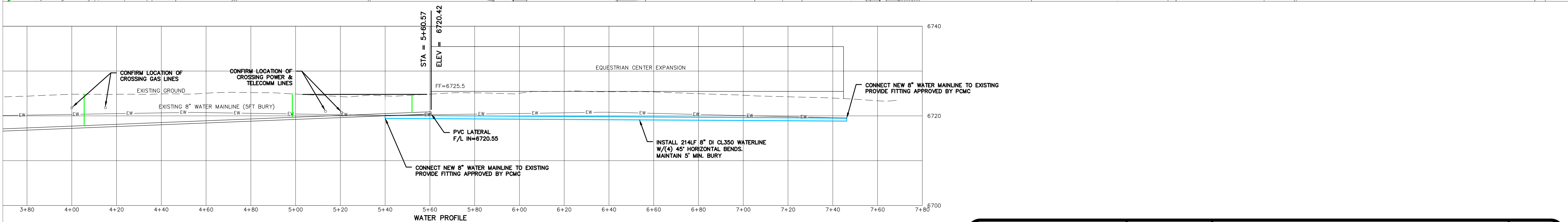
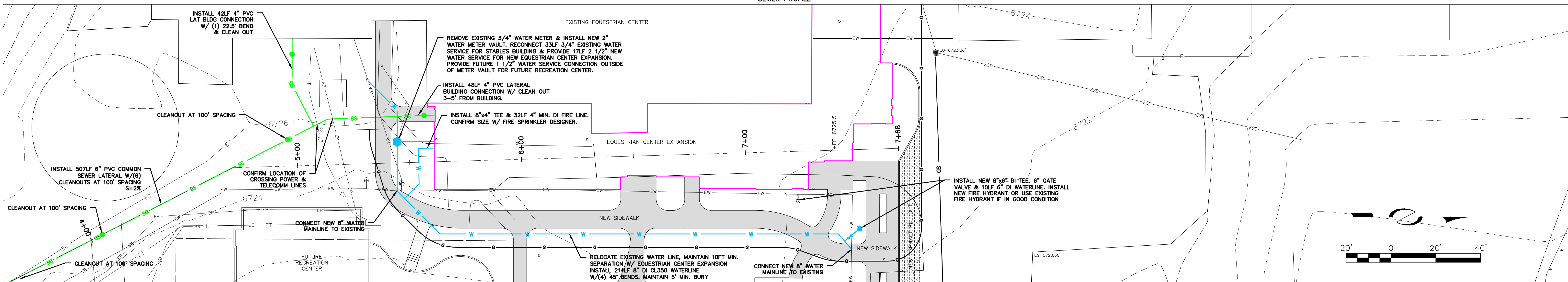
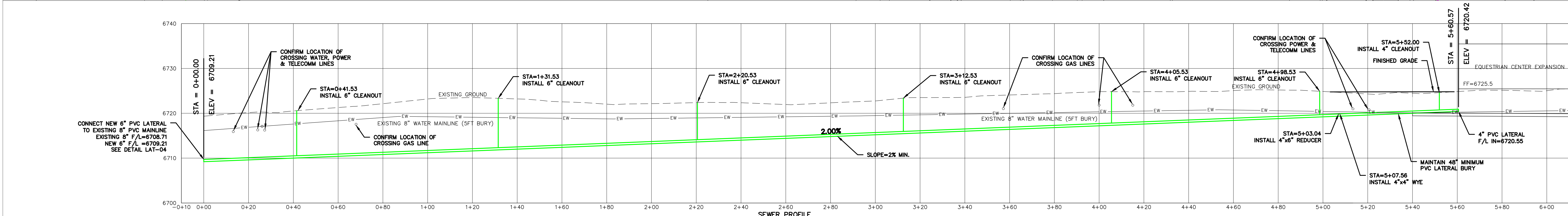
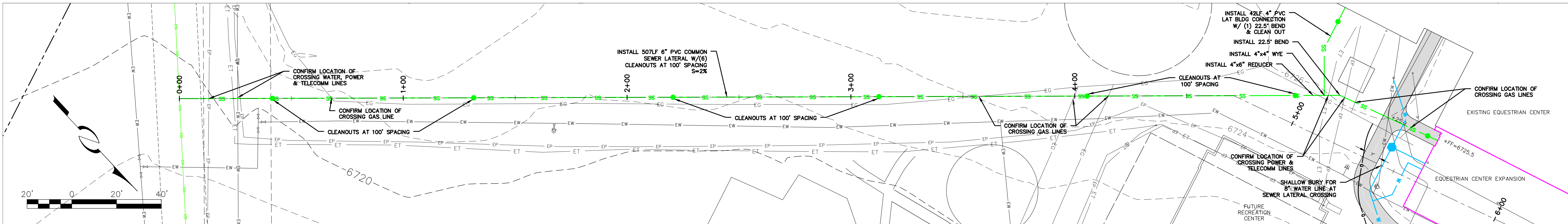
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RYAN BETZ  
**DATE:** 6/7/18

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UTILITY PLAN**  
**FOR:** NAC  
**JOB NO.:** 14-10-17  
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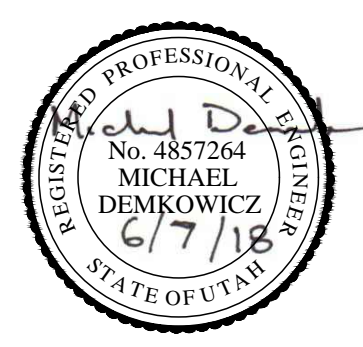
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3  
OF  
6**





**LEGEND**

SS	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	PROPOSED POWER



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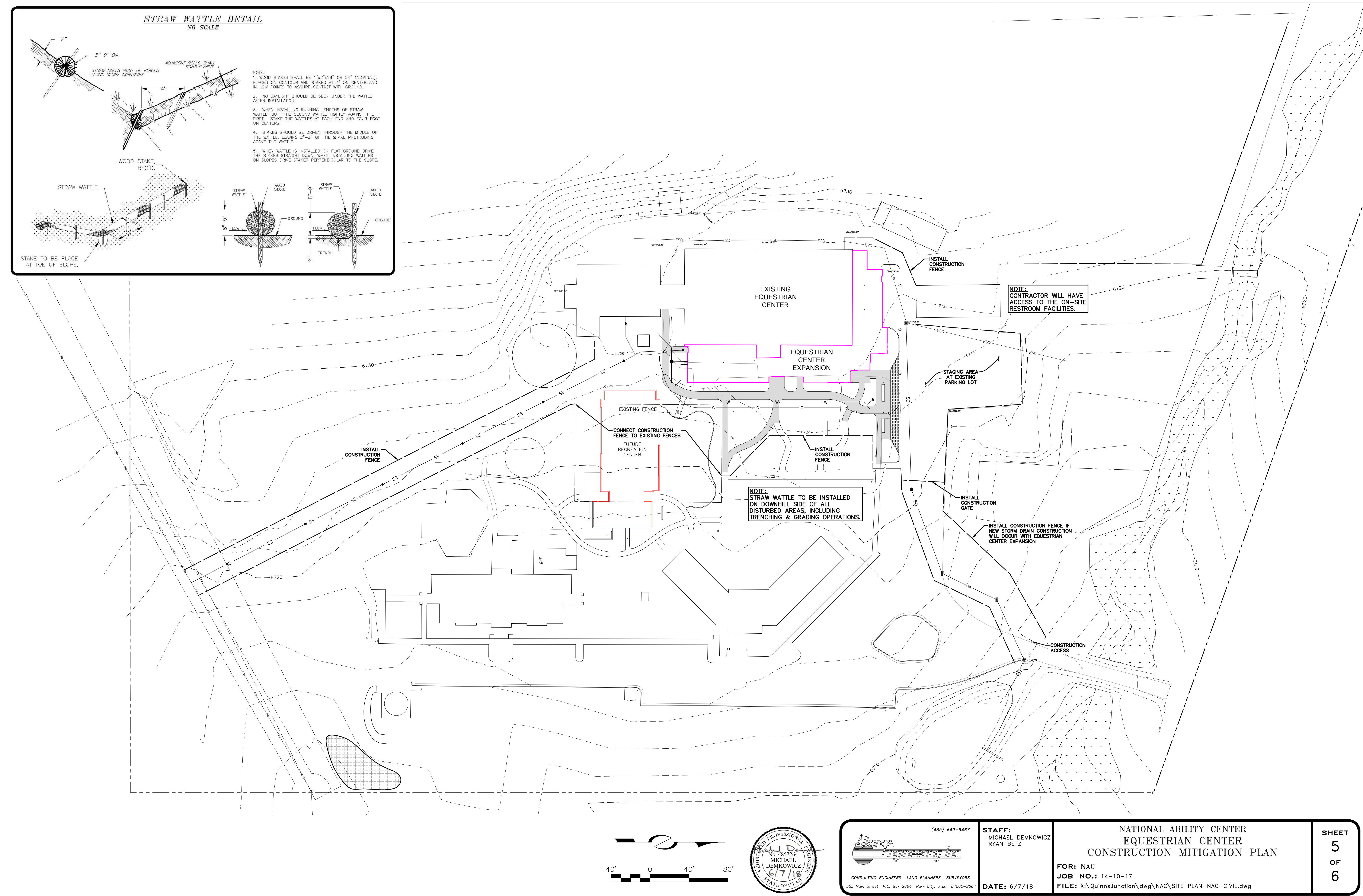
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 RYAN BETZ

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 PLAN & PROFILE**

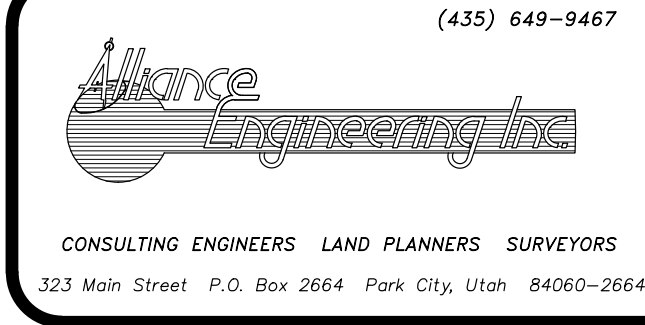
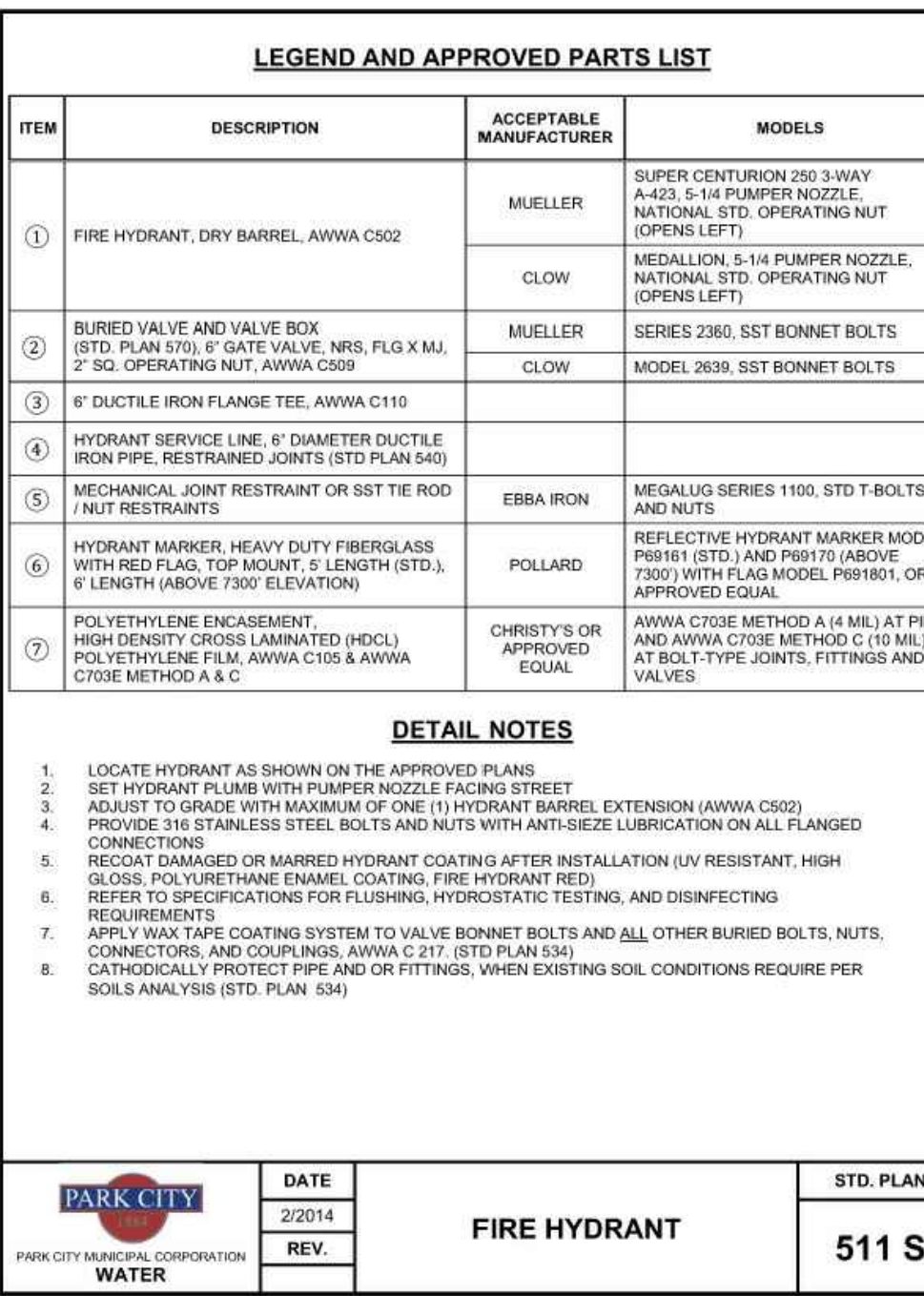
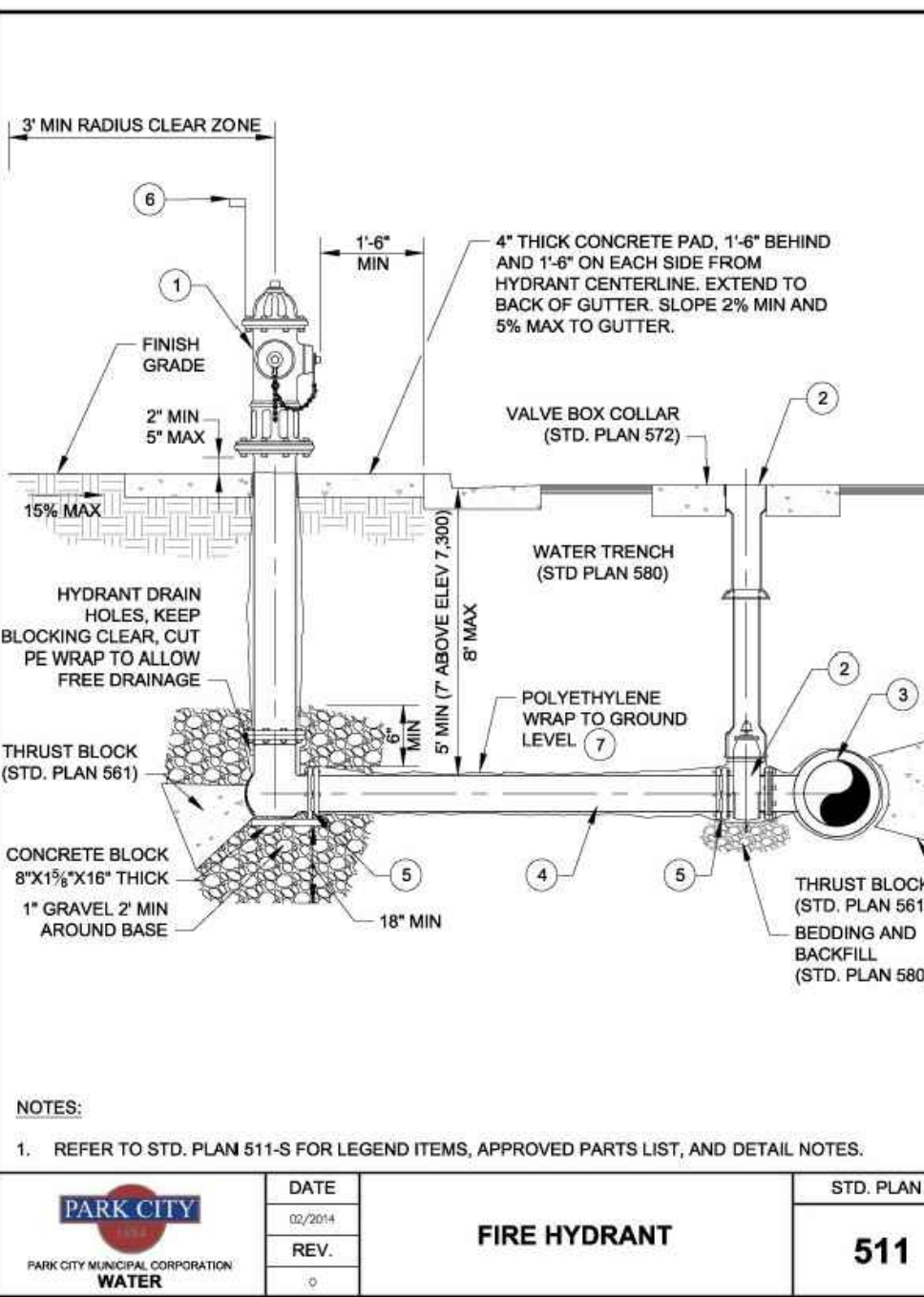
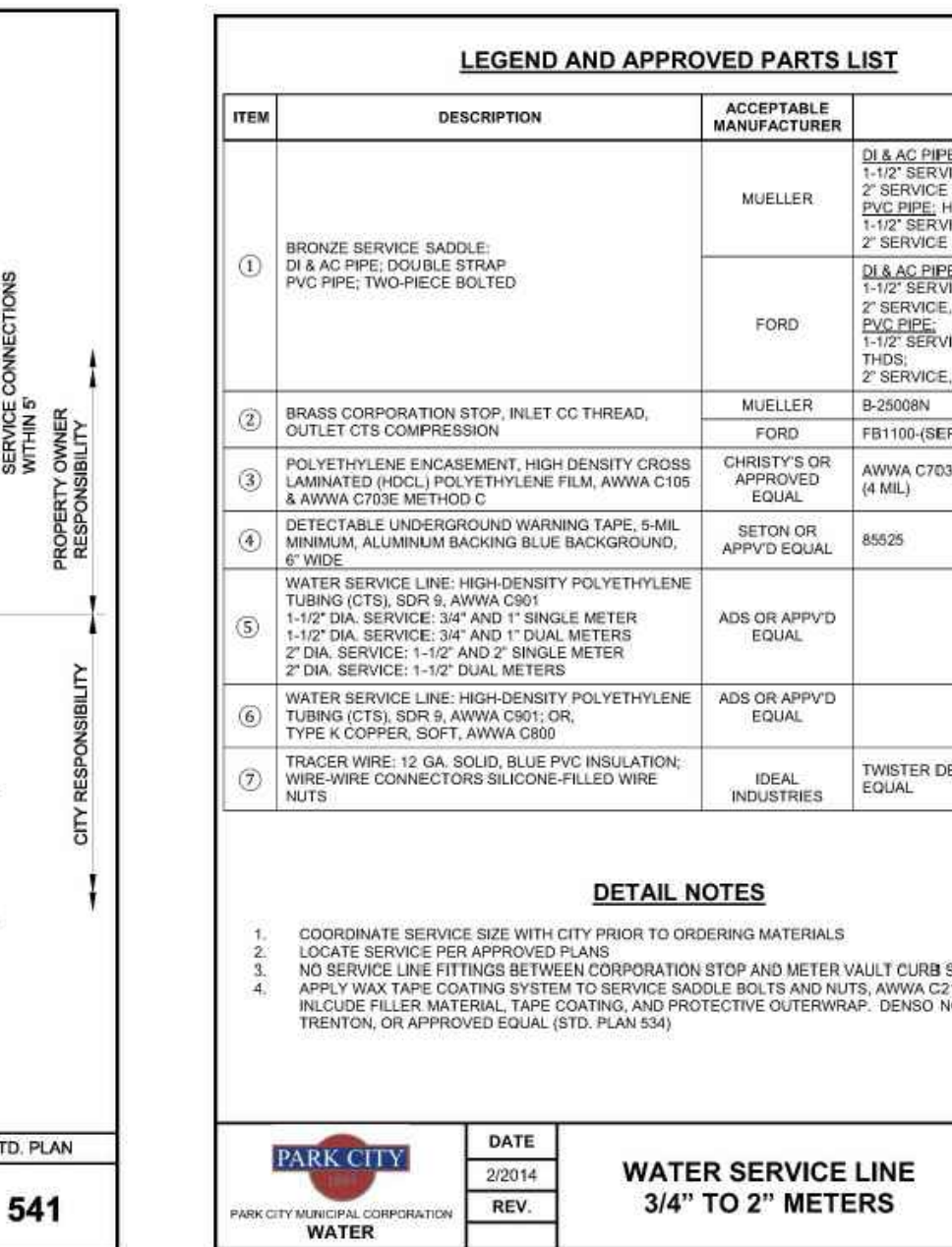
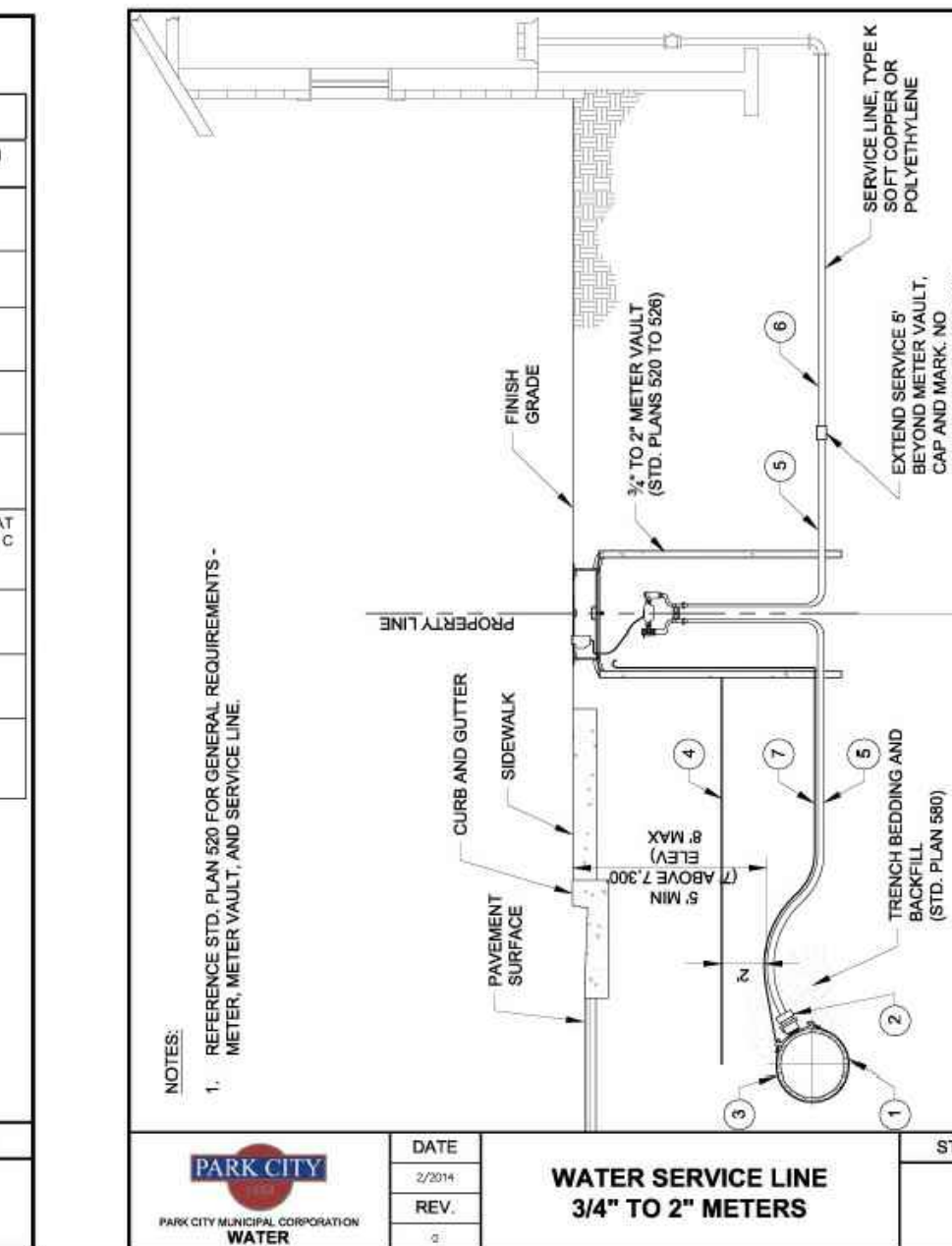
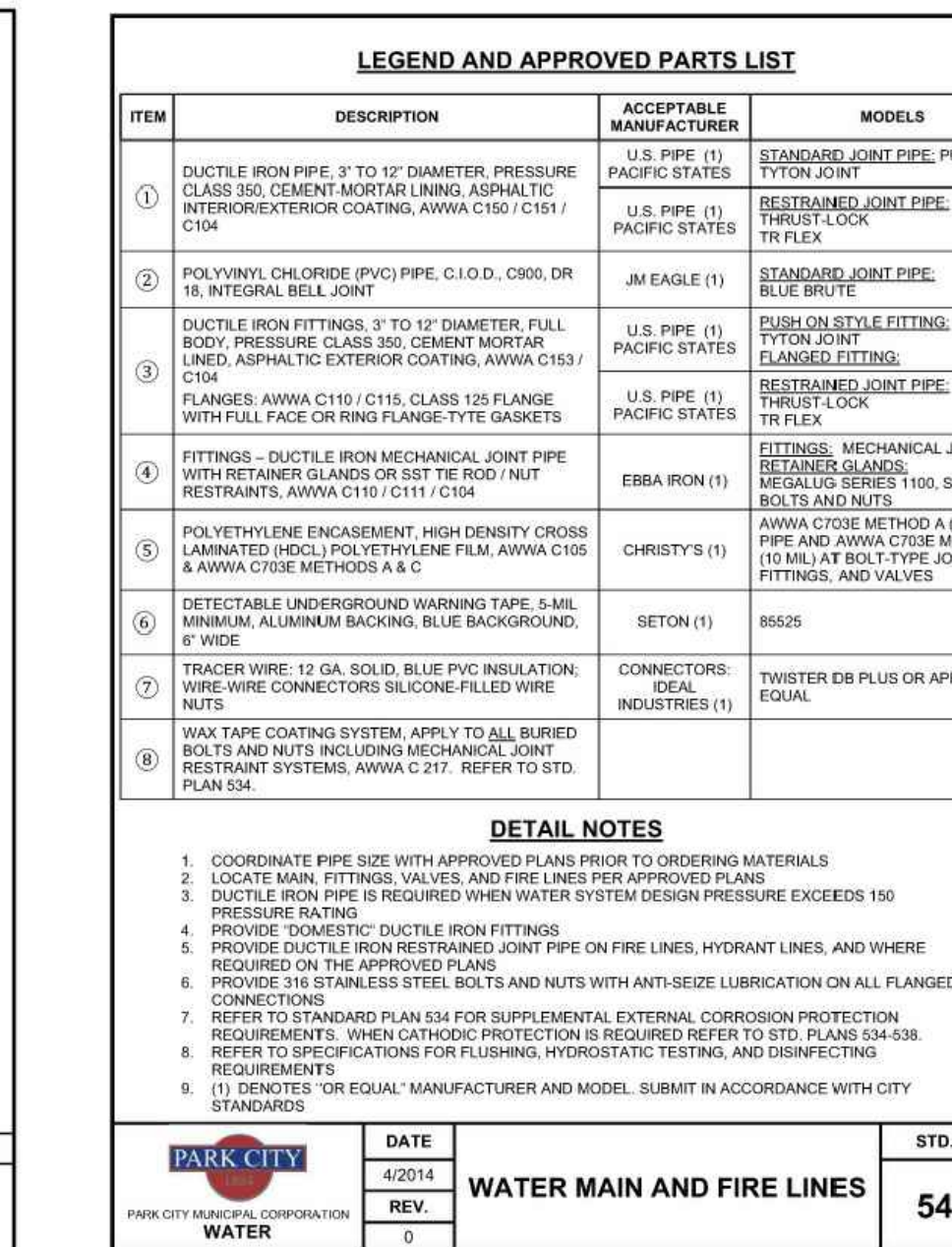
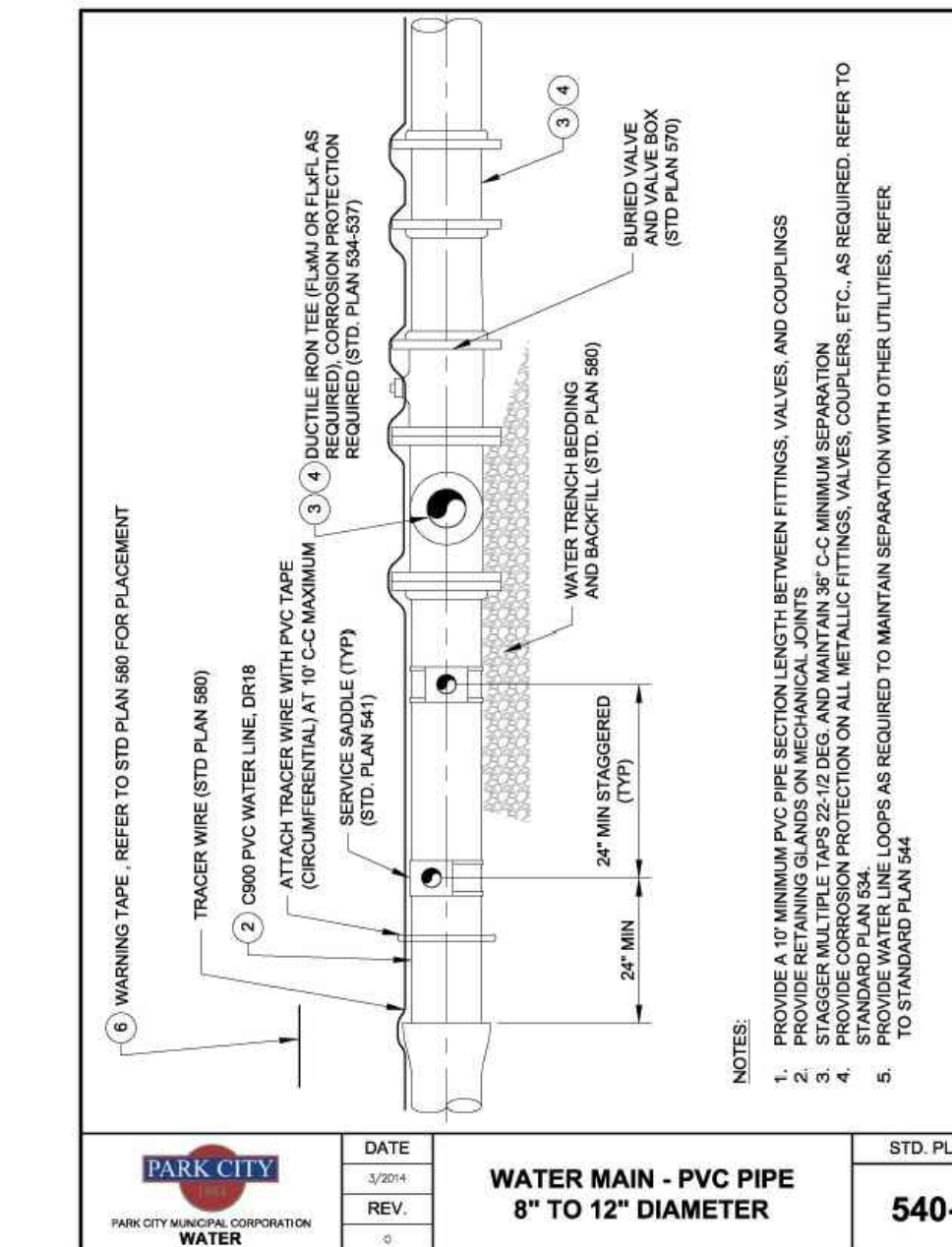
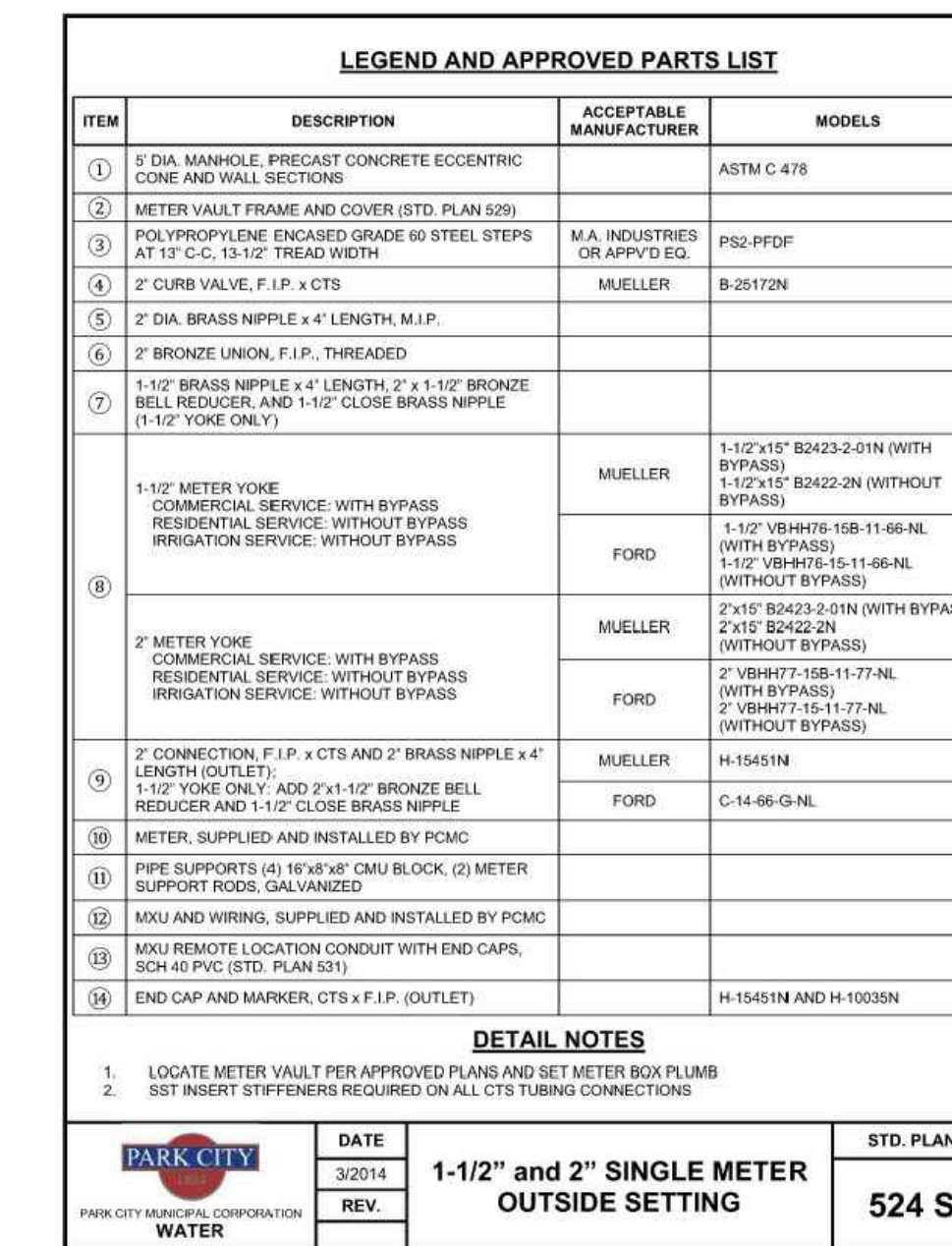
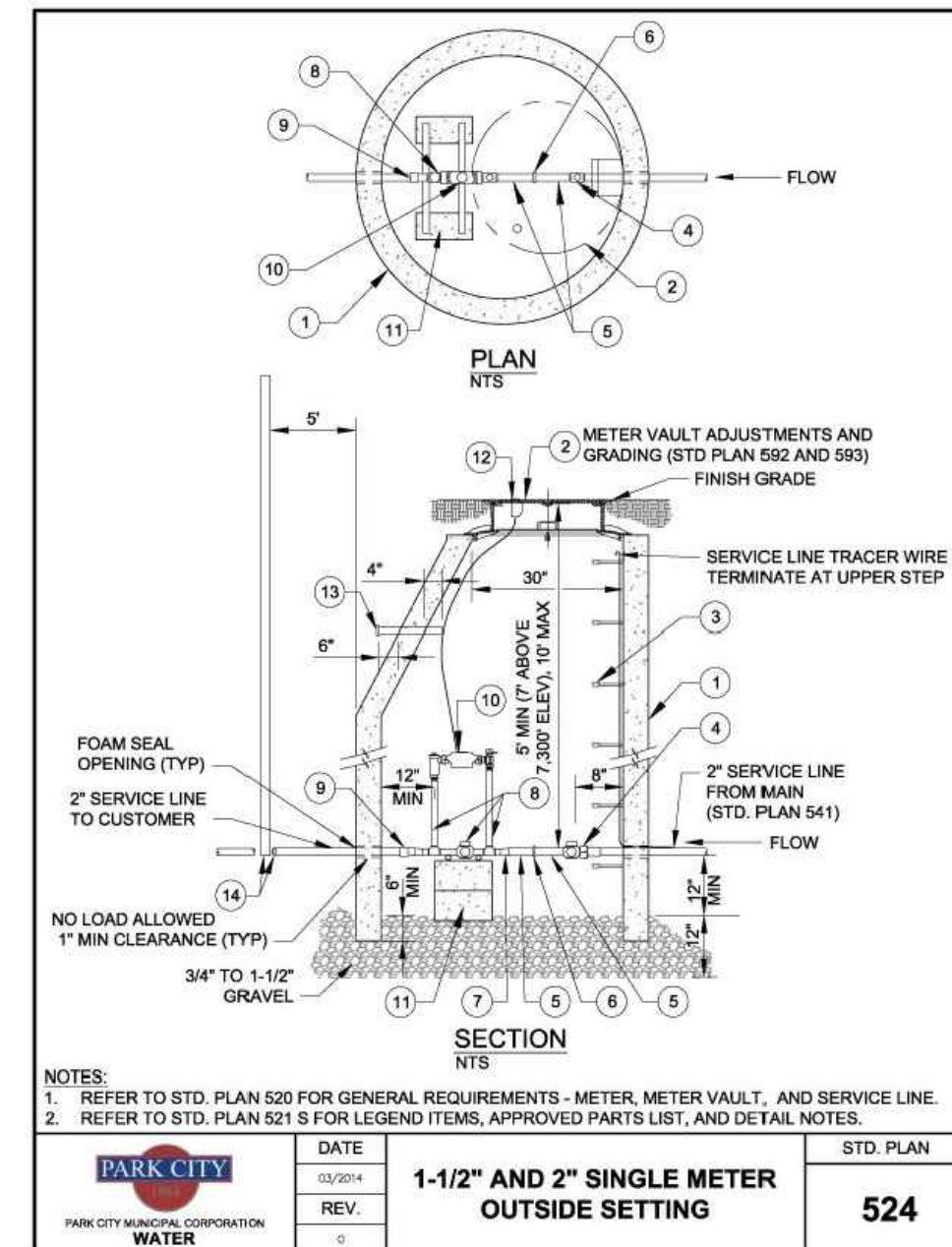
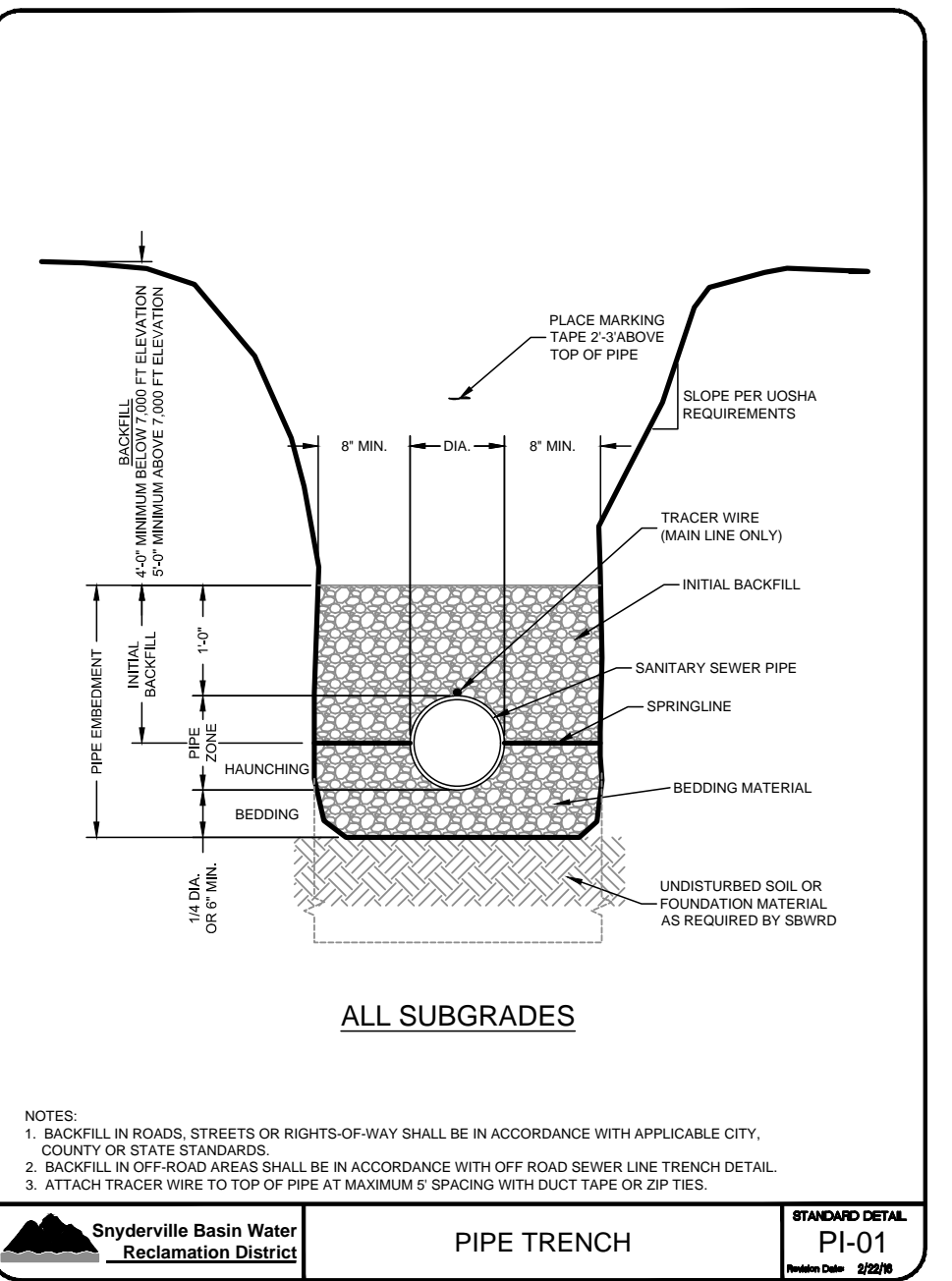
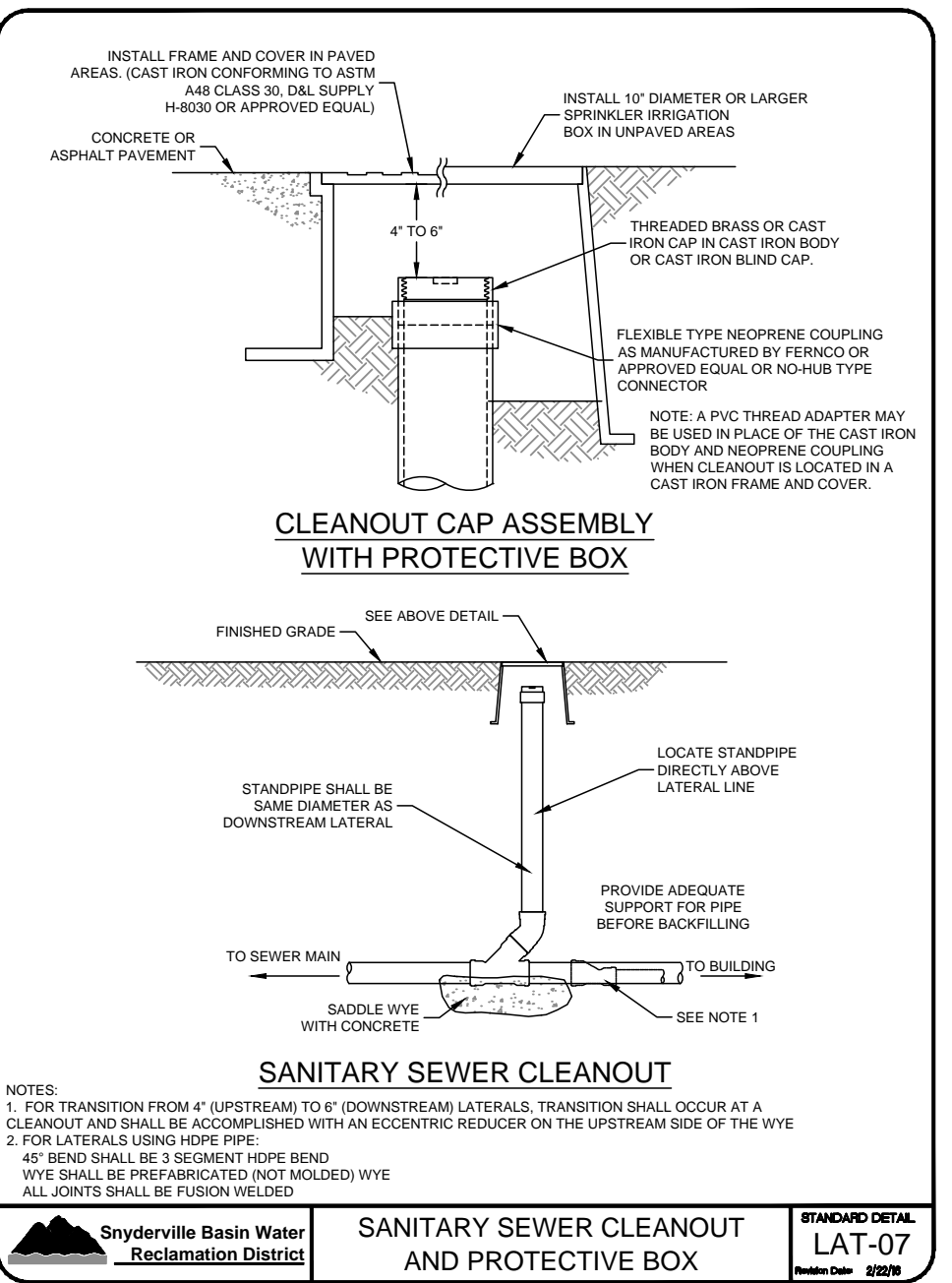
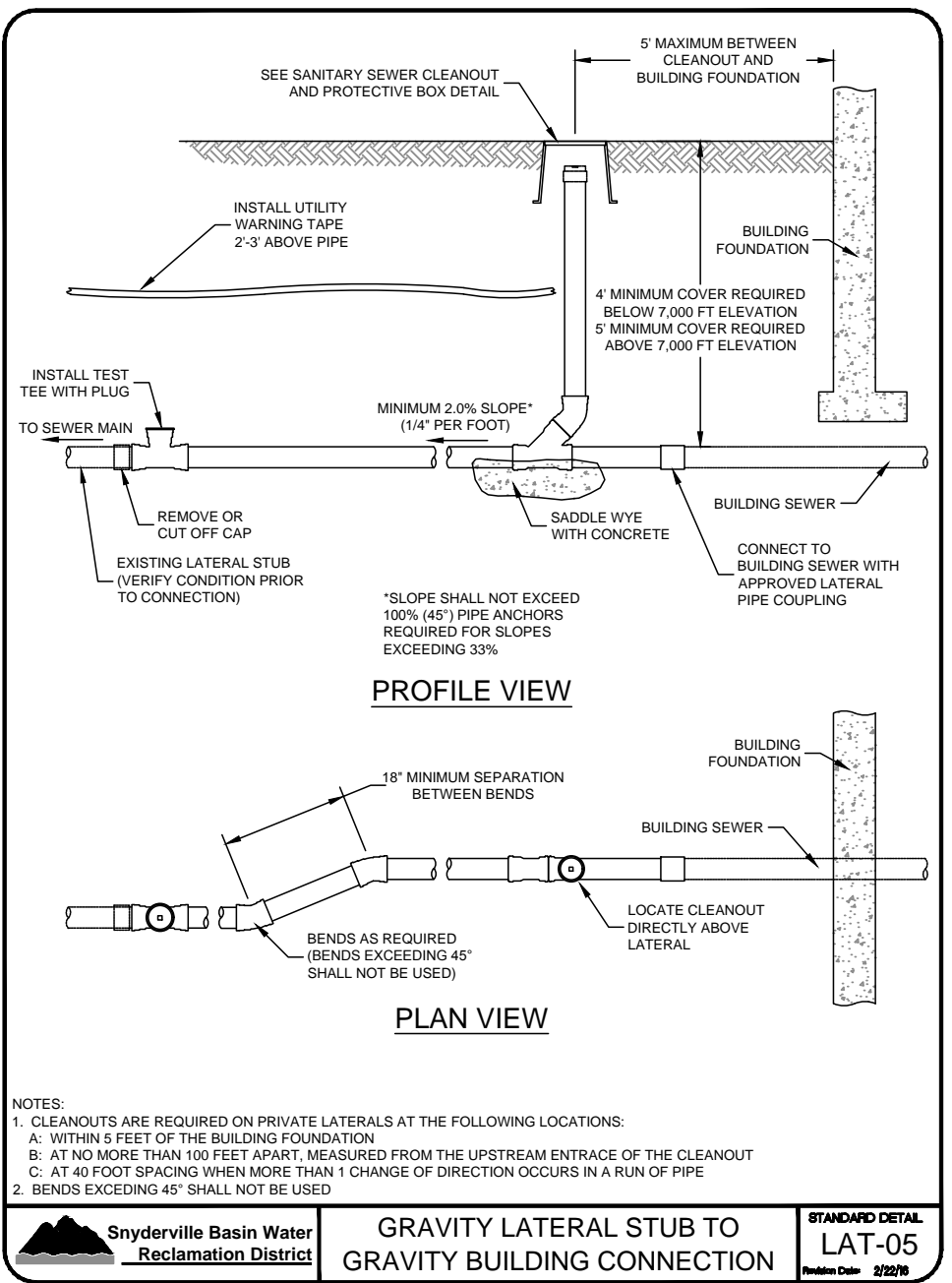
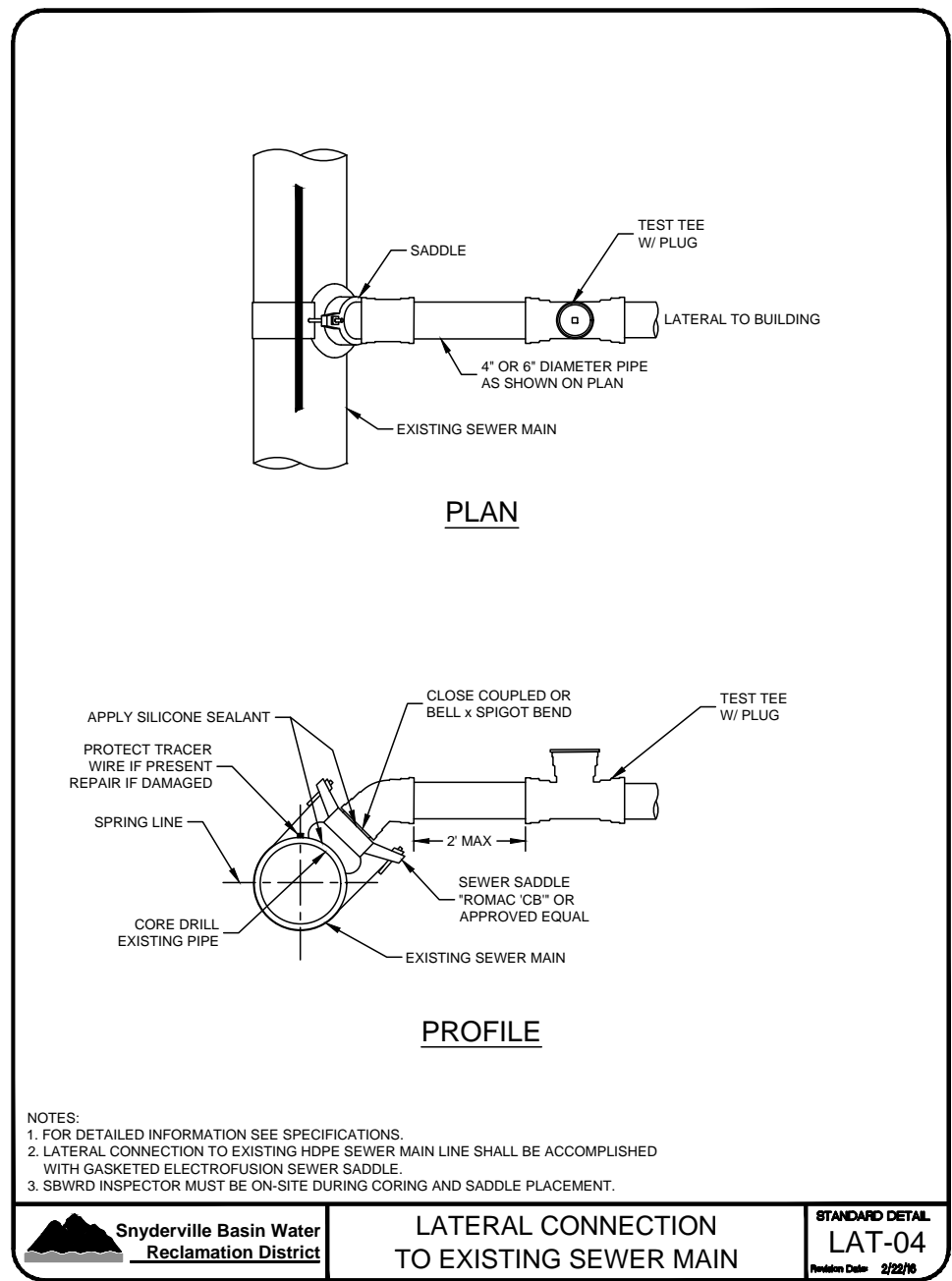
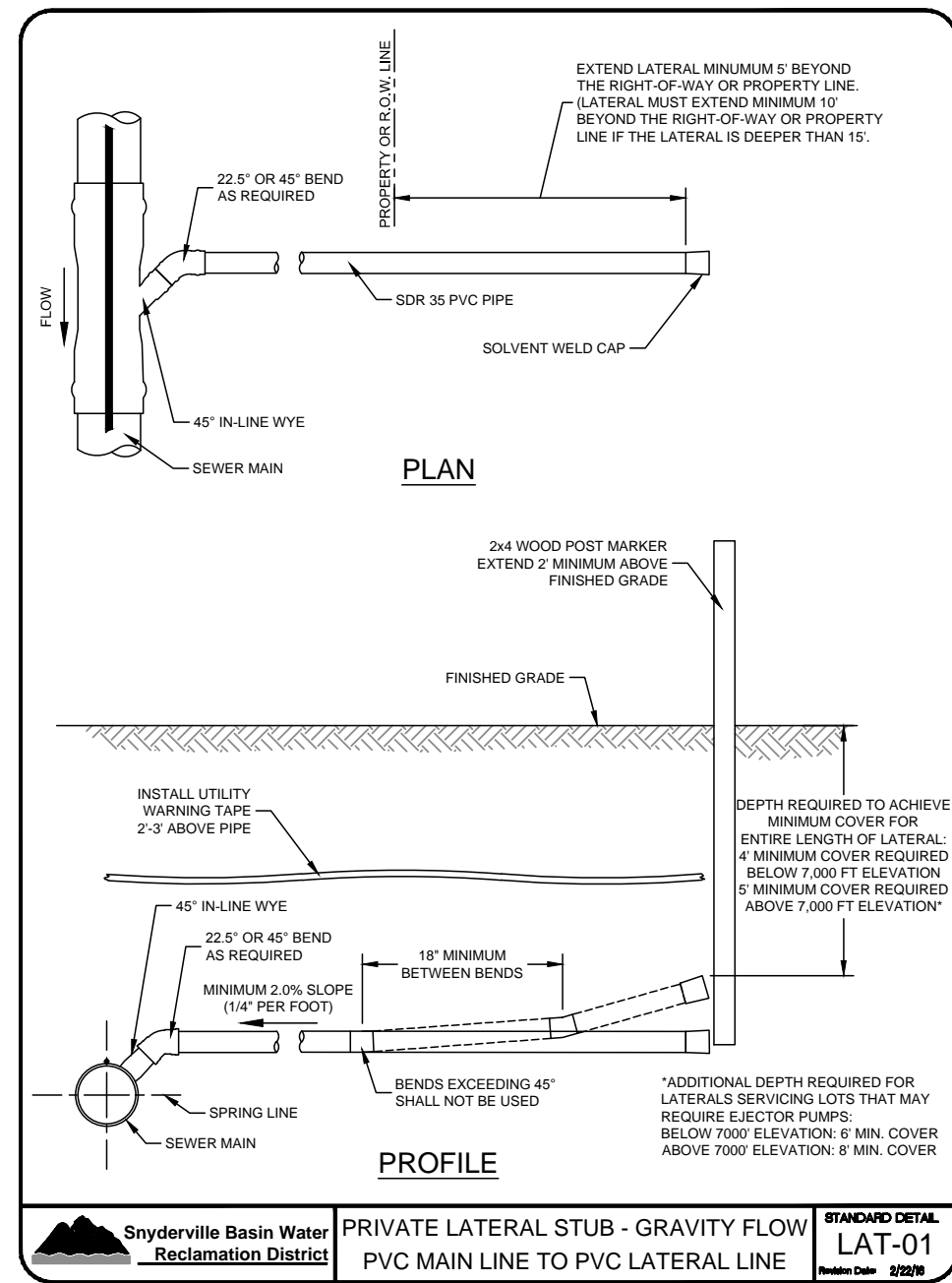
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**SHEET  
 4  
 OF  
 6**









**STAFF:**  
MICHAEL DEMKOWICZ  
RYAN BEITZ

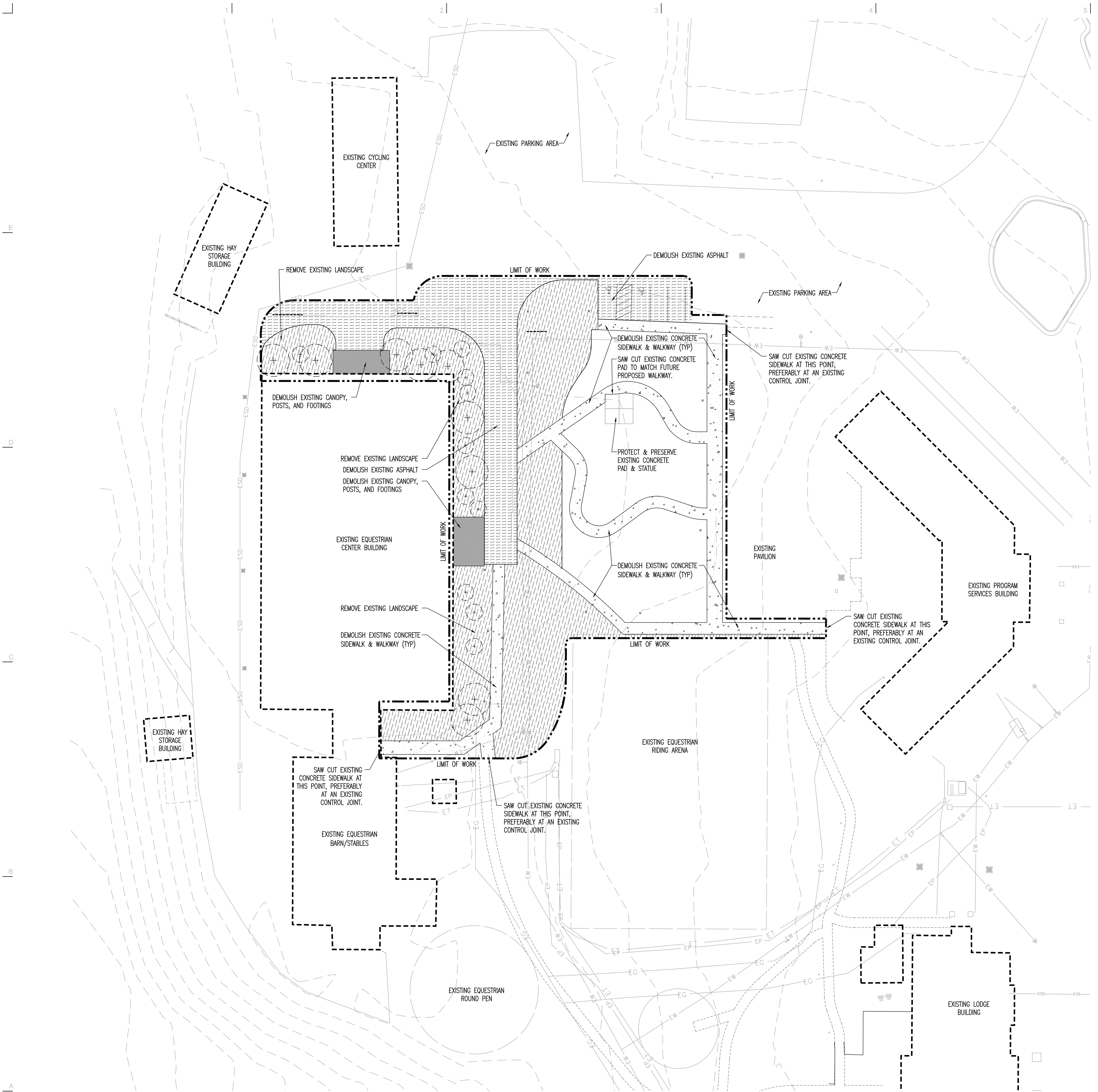
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DETAILS**

**FOR:** NAC  
**JOB NO.:** 14-10-17  
**FILE:** X:\QuinnJunction\dwg\NAC\SITE PLAN-NAC-CIVIL.dwg

**SHEET  
6  
OF  
6**





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  
PLAN 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.
- D. AT THE POINT OF CONNECTION FOR NEW IRRIGATION TO EXISTING INDICATED ON THE IRRIGATION PLAN
- E. 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.
- F. 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.

SITE DEMOLITION 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 OWNER. 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. SEE SITE ELECTRICAL DEMOLITION PLAN, SITE MECHANICAL DEMOLITION PLAN, SITE LANDSCAPE DEMOLITION PLAN AND SITE IRRIGATION DEMOLITION PLAN FOR MORE INFORMATION AND COORDINATION.
- E. DEMOLITION INCLUDES COMPLETE REMOVAL OF ALL PARTS, CONNECTIONS, FOUNDATIONS, STUMPS, ETC. ASSOCIATED WITH EACH ITEM TO BE DEMOLISHED, BOTH ABOVE AND BELOW GRADE. IT WILL INCLUDE LEGALLY AND LAWFULLY DISPOSING OF ALL DEMOLISHED MATERIALS OFF SITE.
- F. ANY DAMAGE TO STRUCTURES OR MATERIALS INTENDED TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- G. SEE ARCHITECTURAL, CIVIL, AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

SITE DEMOLITION PLAN

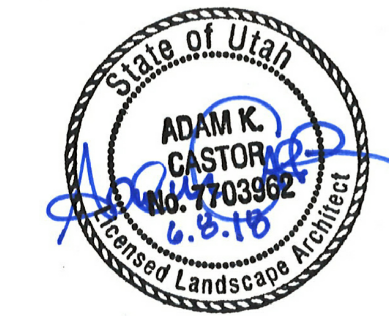
LEGEND:

- EXISTING BUILDING STRUCTURE TO BE REMOVED
- EXISTING ASPHALT PAVING TO BE REMOVED (6,172 SQ.FT.)
- EXISTING CONCRETE PAVING TO BE REMOVED (3,511 SQ.FT.)\*
- EXISTING LANDSCAPED AREA TO BE REMOVED (12,786 SQ.FT.)\*
- \*INCLUDES EXISTING TURF, PLANTER BED AREAS, AND PLANT MATERIALS
- EXISTING TREE TO BE REMOVED  
QTY = VERIFY ON FIELD



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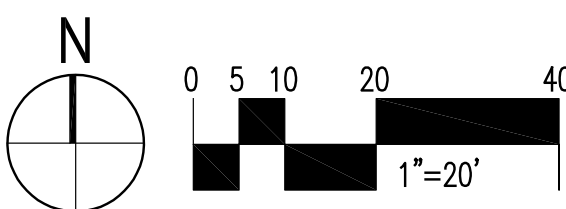
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1000 ABILITY WAY  
PARK CITY, UTAH 84060

# Date Revision

CONSTRUCTION  
DOCUMENTS

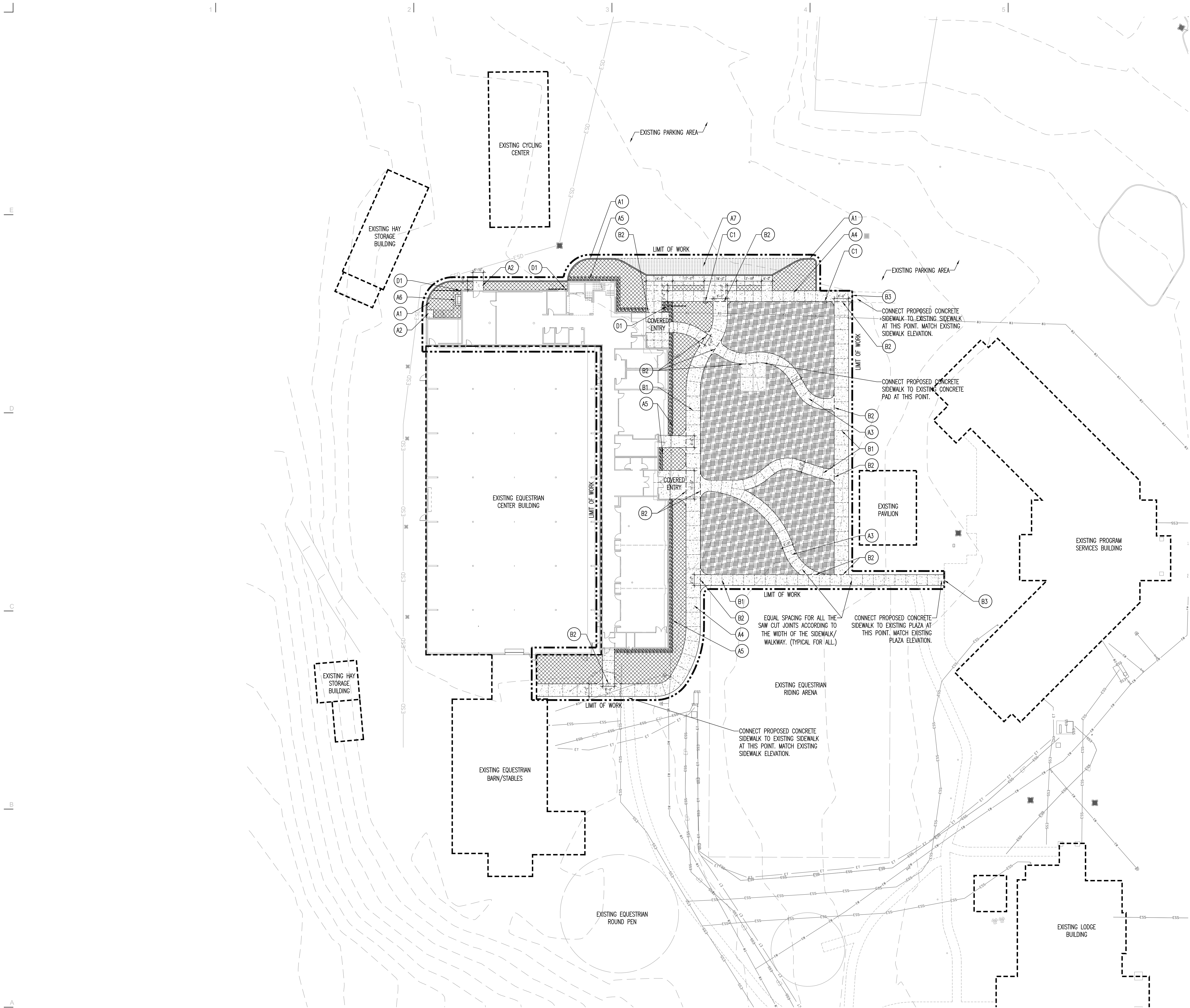
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CHECKED BY: AKC  
DRAWN BY: AKC  
DATE: 06.08.18

SITE DEMOLITION  
PLAN



DS101





SITE PLAN GENERAL NOTES:

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 PAD AND STATUE IN MEMORY GARDEN AS INDICATED IN THE DRAWINGS.
4. SEE CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR MORE INFORMATION.

Site Plan Legend

Symbol	Description
[Pattern]	PROPOSED ASPHALT PAVING (775.0 SQ.FT.)
[Pattern]	PROPOSED CONCRETE PAVING (8,110.0 SQ.FT.)
[Pattern]	PROPOSED LANDSCAPE AREA - NATIVE AND WATER-WISE TREES, SHRUBS, GRASSES AND WILDFLOWERS (3,970.0 SQ.FT.)
[Pattern]	EXISTING MEMORY GARDEN - ASPEN GROVES, NATIVE AND WATER-WISE SHRUBS, GRASSES, AND WILDFLOWERS
[Pattern]	LANDSCAPE DRIP EDGE - 2"-3" DECORATIVE COBBLE ROCK WITH 4" STEEL EDGING (580.0 SQ.FT.)

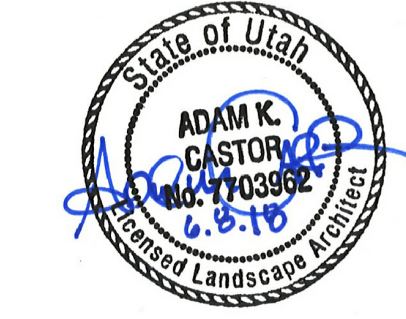
SITE PLAN KEY NOTES:

- SECTION A - CAST IN PLACE
- A1 CONCRETE CURB
  - A2 CONCRETE LANDING
  - A3 CONCRETE WALKWAY
  - A4 CONCRETE SIDEWALK
  - A5 LANDSCAPE DRIP EDGE
  - A6 CONCRETE PAD FOR GAS METER
  - A7 ASPHALT DROP-OFF AREA
- SECTION B - STRUCTURES
- B1 CONTROL JOINT
  - B2 EXPANSION JOINT
  - B3 EXPANSION JOINT W/ DOWEL
- SECTION C - SITE FURNISHINGS
- C1 WAYFINDING SIGNAGE (PROVIDED BY OWNER)
- SECTION D - MISCELLANEOUS
- D1 DOWNSPOUT FRENCH DRAIN



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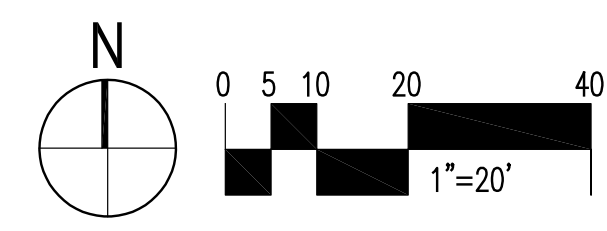
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CONSTRUCTION DOCUMENTS

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DATE: 06.08.18

ARCHITECTURAL SITE PLAN



AS101



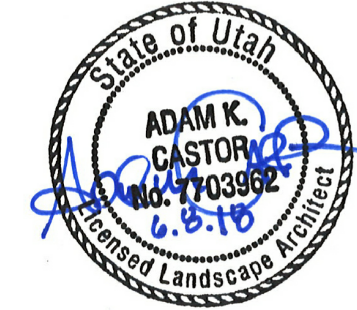
MATERIALS AND FINISH SCHEDULE							
SECTION A – CAST-IN-PLACE	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
A1	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE CURB WITH REBAR REINFORCEMENT 6" X 6"	N/A	SEE CIVIL
A2	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE LANDING– 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS	N/A	A6 AS701
A3	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE WALKWAY– 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS	N/A	A6 AS701
A4	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE SIDEWALK– 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS	N/A	A6 AS701
A5	AS APPROVED	N/A	NATURAL	AS APPROVED	LANDSCAPE DRIP EDGE	N/A	C6 LP701
A6	AS APPROVED	N/A	MEDIUM BROOM	STANDARD GRAY	CONCRETE PAD– 4" FIBER REINFORCED PORTLAND CEMENT WITH SAW CUT JOINTS	N/A	A6 AS701
A7	AS APPROVED	N/A	ROLLED	BLACK	ASPHALT PAVING FOR DROP OFF AREA	N/A	SEE CIVIL
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	AS APPROVED	N/A	N/A	EXPANSION JOINT		C6 AS701
B3	AS APPROVED	AS APPROVED	N/A	N/A	EXPANSION JOINT WITH DOWEL		D6 AS701
SECTION C – PARKING/DROP-OFF	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
C1	AS APPROVED	AS APPROVED	AS APPROVED	AS APPROVED	WAY FINDING APRON– VERIFY DEPTH SIGN NOT IN CONTRACT, PROVIDED BY OWNER	N/A	E6 AS701
SECTION C – PARKING/DROP-OFF	MANUFACTURER/SUPPLIER	MODEL#	FINISH	COLOR	DESCRIPTION	CONTACT	DETAIL
D1	AS APPROVED	AS APPROVED	AS APPROVED	AS APPROVED	TRENCH DRAIN	N/A	A4 AS701



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# Date Revision

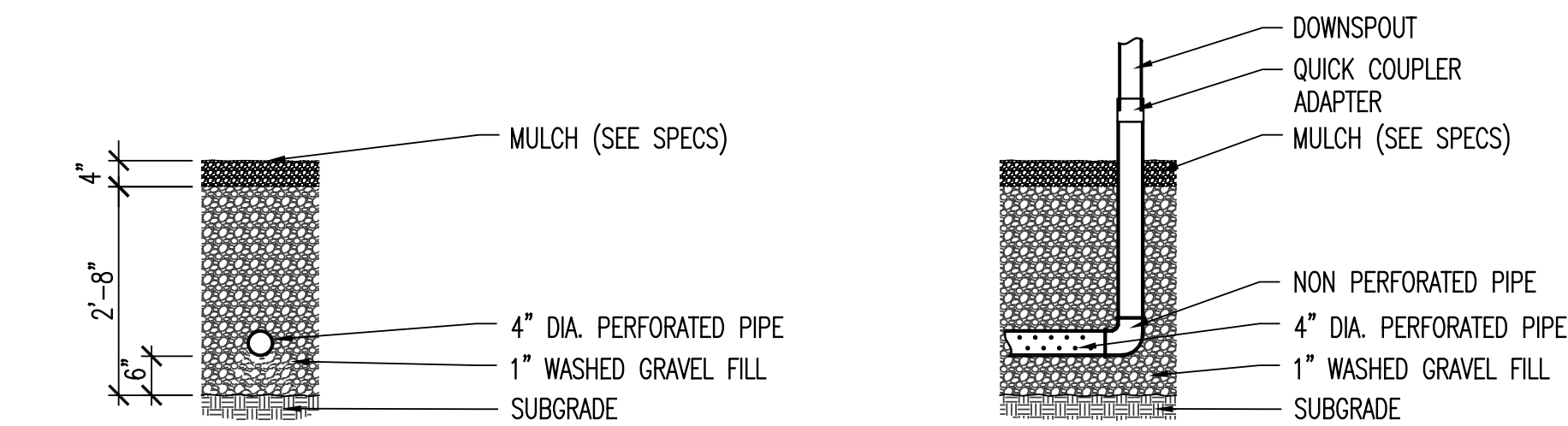
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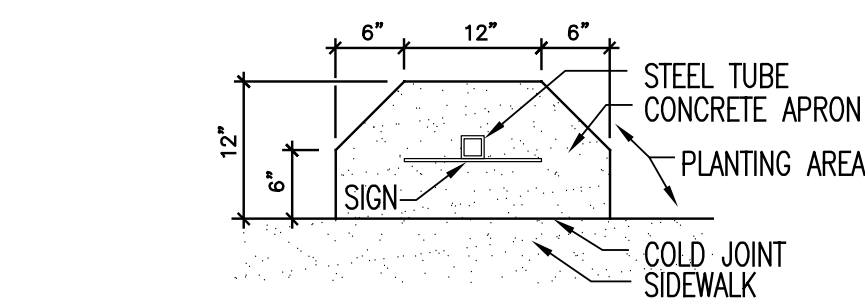
SITE IMPROVEMENTS  
MATERIALS AND  
FINISHES SCHEDULE

AS601

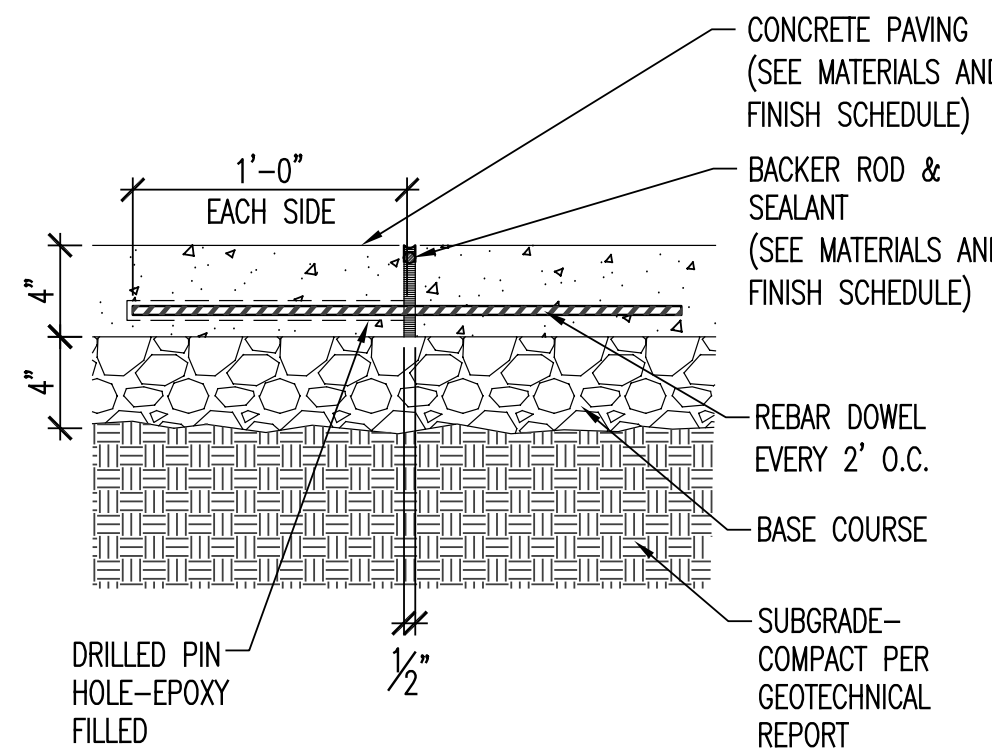




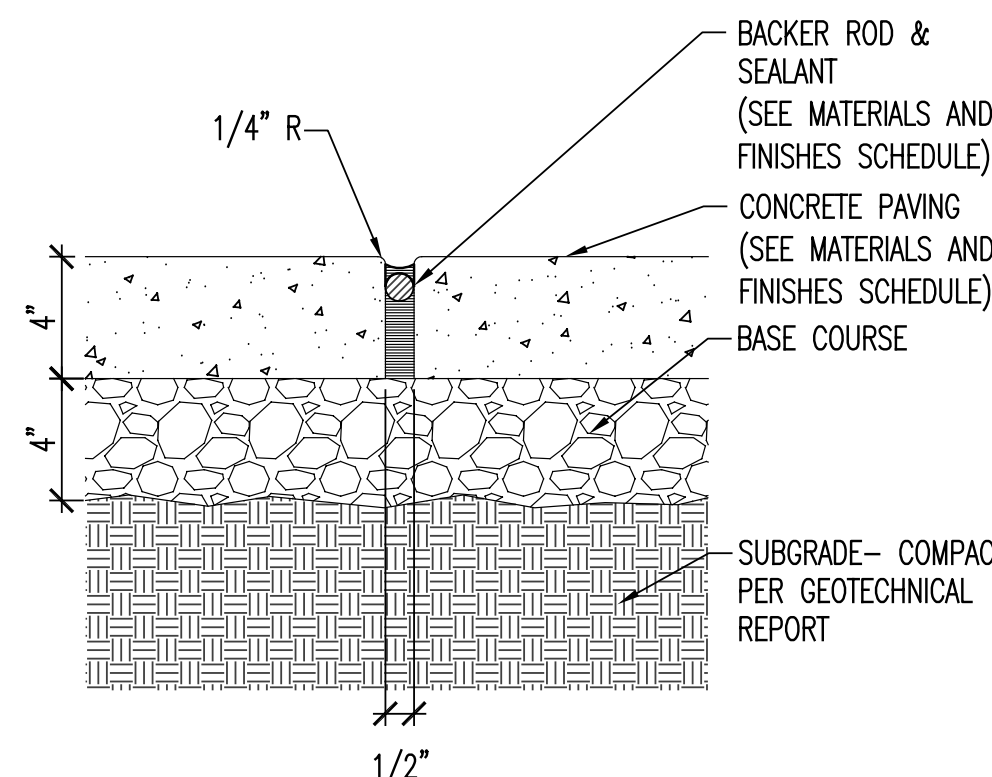
**A4 FRENCH DRAIN & PLANTER**  
AS701 SCALE: 1/2" = 1'-0"



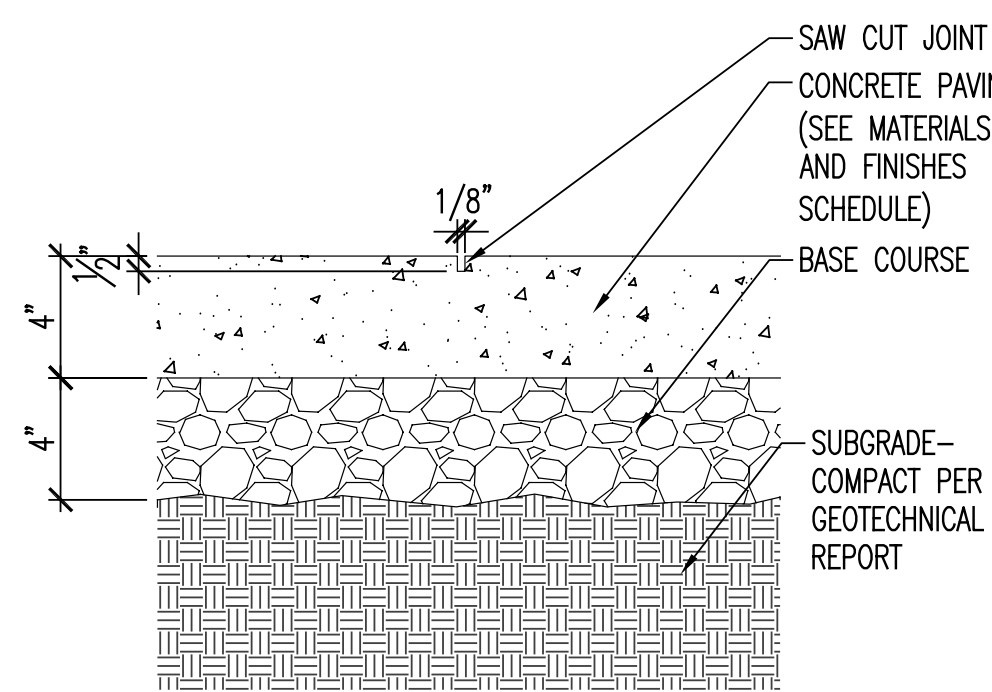
**E6 WAYFINDING SIGN APRON**  
AS701 SCALE: 3/4" = 1'-0"



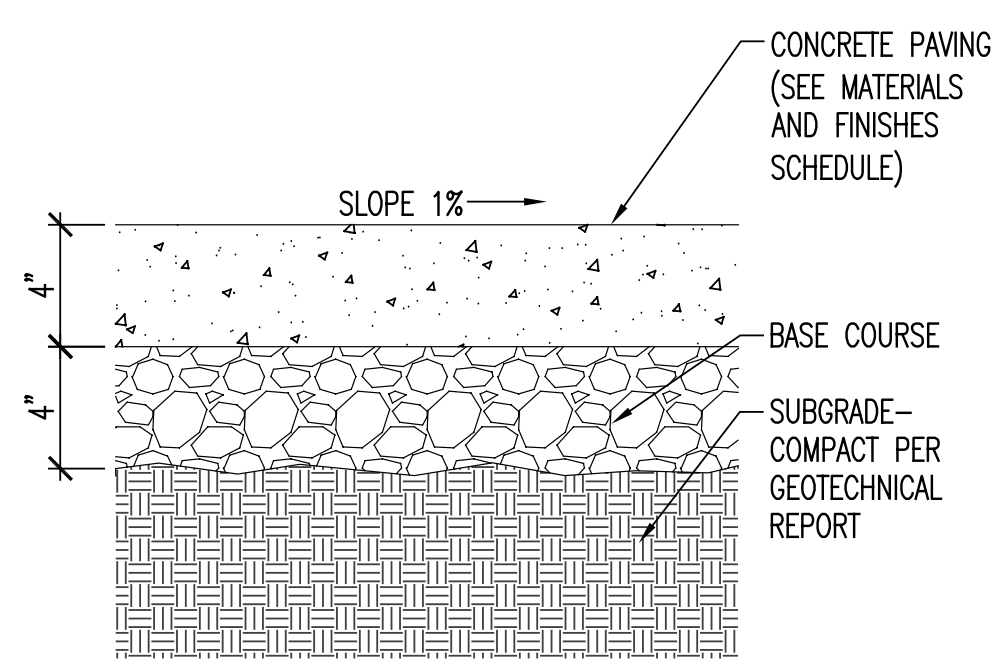
**D6 EXPANSION JOINT W/ DOWEL**  
AS701 SCALE: 1 1/2" = 1'-0"



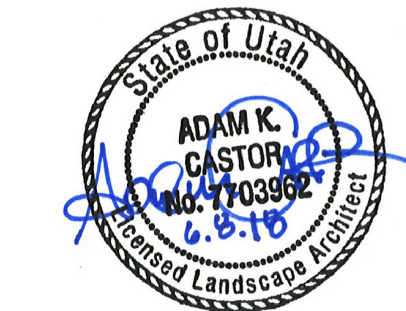
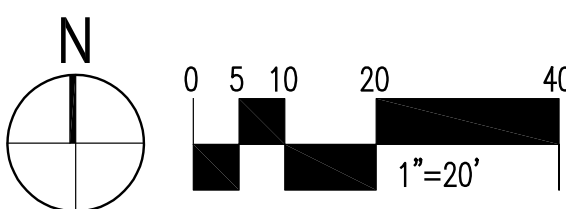
**C6 EXPANSION JOINT**  
AS701 SCALE: 2" = 1'-0"



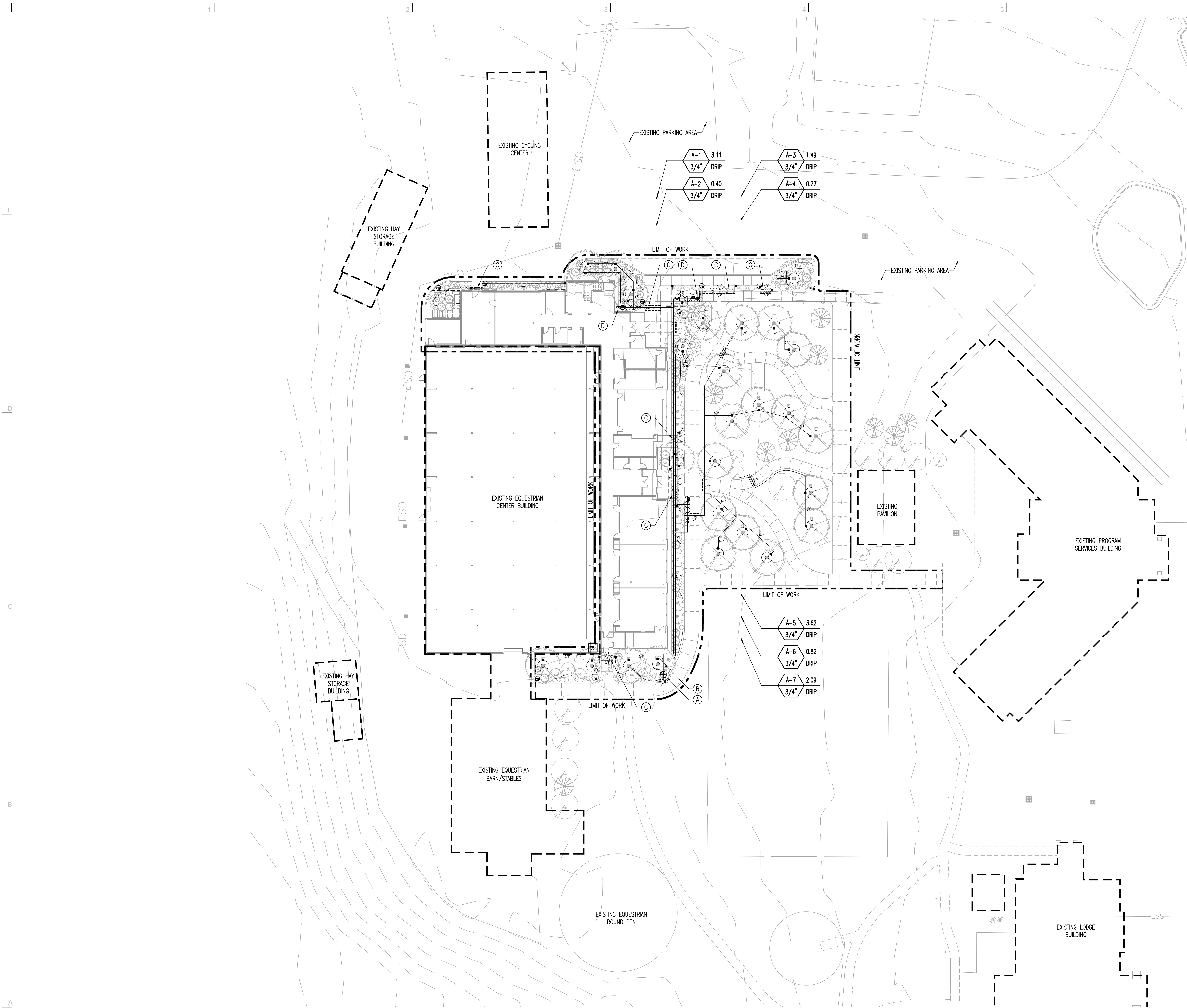
**B6 SAW CUT CONTROL JOINT**  
AS701 SCALE: 2" = 1'-0"



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





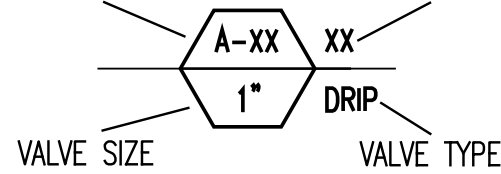


**IRRIGATION  
CONSTRUCTION NOTES:**

- Ⓐ 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) 1" CURB VALVE, (1) 1" BACKFLOW PREVENTION DEVICE, (2) 3/4" DRAIN VALVES, (1) 1" 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:**

- 1. THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE A PEAK DEMAND OF 1 GPM, BASED ON HISTORICAL Eto RATES, AND ACTUAL HIGH FLOW OF 3.11 GPM. TOTAL SYSTEM PRESSURE LOSSES ARE 31.68 PSI.
- 2. 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.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF THE EXISTING AUTOMATIC CONTROLLER AND ITS CAPACITY TO ACCOMMODATE THE POINT OF CONNECTION COMPONENTS AND THE PROPOSED VALVES. IN THE EVENT THAT THE EXISTING CONTROLLER CANNOT ACCOMMODATE THE POINT OF CONNECTION COMPONENTS AND THE PROPOSED VALVES, A NEW CONTROLLER SHALL BE REQUIRED.
- 4. POINT OF CONNECTION COMPONENTS SHALL BE CONNECTED TO THE AUTOMATIC CONTROLLER IN SEPARATE CONDUITS AND AS INSTRUCTED BY THE MANUFACTURER.
- 5. IRRIGATION CONTROL VALVES SHALL BE CONNECTED TO THE AUTOMATIC CONTROLLER WITH DIRECT BURIAL, CONVENTIONAL WIRING.
- 6. ALL PLANTER AREAS SHALL BE IRRIGATED WITH POINT SOURCE DRIP IRRIGATION.
- 7. IRRIGATION ZONES ARE IDENTIFIED WITH THE STATIONING/VALVE CONTROL: GPM



**EMITTER SCHEDULE:**

PLANT SIZE	EMITTER GPH	QTY. PER PLANT
1 GAL	1	1
5 GAL	5	1
TREES	0.26	24

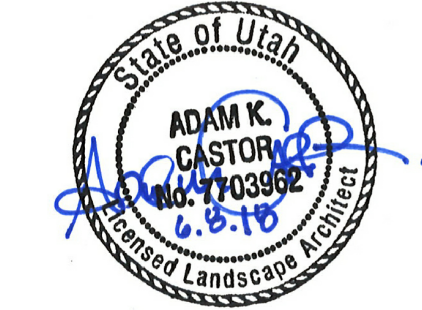
WHERE MORE THAN ONE EMITTER IS REQUIRED FOR PLANT, SPACE EMITTERS EQUIDISTANT AROUND ROOTBALL



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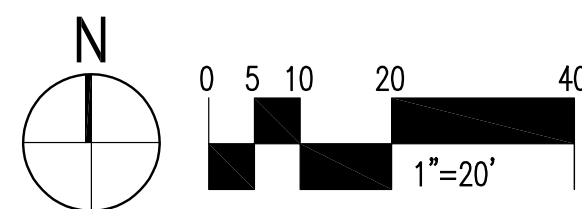
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**CONSTRUCTION  
DOCUMENTS**


























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DATE: 06.08.18

**IRRIGATION  
PLAN**



**LI101**



IRRIGATION LEGEND							
SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION	RADIUS	P.S.I.	G.P.M.	DETAIL #
	NETAFIM	TLCV26-12-XX	TREE RING FOR PROPOSED TREES – IN-LINE, PRESSURE COMPENSATING DRIP TUBING	25	NA	E6	L703
			POINT OF CONNECTION				E6 L701
	MUELLER	MARK II ORISEAL H-10284	1" CURB VALVE (STOP AND WASTE)			A5	L701
	FEBCO	825YA	1" BACKFLOW PREVENTION DEVICE			A3	L701
	STRONGBOX	SBBC-22AL	ALUMINUM BACKFLOW ENCLOSURE			A3	L701
	STRONGBOX	PBB-15	POLAR BEARER LOCKING INSULATED COVER			A3	L701
	GRISWOLD	2160-H	1" NORMALLY OPEN MASTER VALVE WITH SOLENOID (CONNECTION TO CONTROLLER WITH PAIGE SHIELDED WIRE IN SEPARATE CONDUIT)			A1	L701
	CST	FSI-T15-000	1" TEE TYPE PVC FLOW SENSOR			C5	L701
	HUNTER	HQ-44LRC	QUICK COUPLER VALVE			C1	L701
	NIBCO	T-FP-600A	1" BRASS BALL VALVE (VALVE MANIFOLDS)			C3	L701
	MUELLER	MARK II ORISEAL	3/4" MANUAL DRAIN BALL VALVE			A5	L702
	EXISTING	EXISTING	EXISTING CONTROLLER IN EQUESTRIAN ARENA			N/A	
	RAINBIRD	XCZ-075-PRF	LOW FLOW CONTROL VALVE, DRIP KIT			A2, C2	L702
	NETAFIM	TLSOV	MANUAL SHUT OFF VALVE FOR FLUSH ASSEMBLY			D1	L702
	SPEARS	PVC SCH 40	3/4" SLIP X SLIP COUPLER OR ELL				
	NETAFIM	TLCV001	17mm BLANK DRIP TUBING FOR POINT SOURCE EMITTERS			D5	L703
	NETAFIM	TLXXX	17MM DRIP TUBING FITTINGS				
	RAINBIRD	XB-XXX	BARBED POINT SOURCE EMITTERS (SEE EMITTER SCHEDULE)			A5, C5	L703
	RAINBIRD	XQ-100	1/4" DISTRIBUTION TUBING			A5, C5	L703
	RAINBIRD	TS-025	UNIVERSAL 1/4" TUBING STAKE			A5, C5	L703
	RAINBIRD	DBC-025	DIFFUSER BUG CAP			A5, C5	L703
	SEE SPECS	PVC SCH40	NON-PRESSURE LATERAL LINE			C5, E5	L702
	SEE SPECS	PVC SCH40	PRESSURE SUPPLY LINE			C5, E5	L702
	SEE SPECS	PVC SCH40	IRRIGATION SLEEVE (SEE SPECS FOR SIZE)			C5, E5	L702
	SEE SPECS	PVC SCH40	GREY CONDUIT FOR WIRE (SEE SPECS FOR SIZE)			C5, E5	L702

IRRIGATION DEMAND ANALYSIS													
PROJECT #17179													
NATIONAL ABILITY CENTER - EQUESTRIAN CENTER EXPANSION													
Meter # N/A													
08-Jun-18													
Reference Evapotranspiration	Crop Coefficients							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	
	* Hot Eto	Cool Season Turf	Warm Season Turf	Ornamental Shrubs	Ornamental Grasses	Native Shrubs	Perennials & Annuals						
Month	Hot Eto	0.61	0.55	0.18	0.18	0.18	0.61	1.0	0.00	0	0	0	
Jan	1.20	0.64	0.54	0.19	0.19	0.19	0.64	1.0	0.00	0	0	0	
Feb	2.10	0.75	0.79	0.23	0.23	0.23	0.75	1.0	0.00	0	0	0	
Mar	3.50	1.04	0.72	0.31	0.31	0.31	1.04	1.0	3378	0.01	5	0	
Apr	4.90	0.95	0.79	0.29	0.29	0.29	0.95	1.0	4320	0.01	6	0	
May	6.50	0.88	0.68	0.26	0.26	0.26	0.88	1.0	5390	0.02	7	1	
June	7.70	0.94	0.71	0.28	0.28	0.28	0.94	1.0	6717	0.02	9	1	
July	6.80	0.86	0.71	0.26	0.26	0.26	0.86	1.0	5427	0.02	7	1	
Aug	4.80	0.74	0.62	0.22	0.22	0.22	0.74	1.0	3296	0.01	4	0	
Sept	2.80	0.75	0.54	0.23	0.23	0.23	0.75	1.0	1949	0.01	3	0	
Oct	1.30	0.69	0.58	0.21	0.21	0.21	0.69	1.0	0.00	0	0	0	
Nov	0.70	0.60	0.55	0.18	0.18	0.18	0.60	1.0	0.00	0	0	0	
Dec	0.70	0.60	0.55	0.18	0.18	0.18	0.60	1.0	0.00	0	0	0	
Annual	43.20	0.45	2.27	2.84	2.84	2.84	0.45	1.0	30476	0.09	41	3	
ESTIMATED IRRIGATED LANDSCAPE AREA:													
Cool Season Turfgrass:	0	square feet	CROP COEFFICIENTS:				.70 to .90	ESTIMATED DISTRIBUTION OF UNIFORMITY:					
Warm Season Turfgrass:	0	square feet					.40 to .60	Drip Applications					
Ornamental Shrubs	3970	square feet					.10 to .30	Rater Applications					
Ornamental Grasses	0	square feet					.01 to .09	Spray Applications					
Native Shrubs	0	square feet											
Perennials and Annuals	0	square feet											
	3970	square feet					0.09	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, 1987  
\*\*\* Crop Coefficients Obtained from Water Use Classification of Landscape Species III University of California Cooperative Extension, 2000

HYDRAULIC ANALYSIS									
FOR PROJECT #17179 NATIONAL ABILITY CENTER - EQUESTRIAN CENTER EXPANSION									
Meter # N/A									
Meter Account # N/A									
08-Jun-18									
**EQUIPMENTS:	CLASS:	SIZE:	LOSS:	/100	LENGTH:	****GPM:	PSI LOSS:		
SERVICE LINE:	N/A	N/A	1	0.05	0	0	0	0.00	
WATER METER:	N/A	N/A	N/A	N/A	N/A	0	0	0	
BACKFLOW PREVENTION DEVICE:	N/A	1"	N/A	N/A	N/A	0	3	11	
MASTER VALVE:	N/A	1"	N/A	N/A	N/A	0	3	1	
FLOW SENSOR:	N/A	1"	N/A	N/A	N/A	0	3	1	
PRESSURE SUPPLY LINE:	SCH 40	1"	0.38	2.30	230	0	3	0.64	
NON PRESSURE LATERAL LINE:	SCH 40	3/4"	0.94	1.10	110	0	3	1.03	
ELECTRIC CONTROL VALVE:	N/A	3/4"	N/A	N/A	N/A	0	3	5.00	
FITTINGS:	N/A	N/A	N/A	N/A	N/A	0	25	2.00	
SUBTOTAL:								21.68	
***ELEVATION:							FEET:		
at highest point within point of connection:							6725		
at meter:							6725		
SUBTOTAL:								0.00	
**PSI REQUIRED @ HEAD:								10.00	
TOTAL SYSTEM LOSSES:								31.68	
**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:								-31.68	



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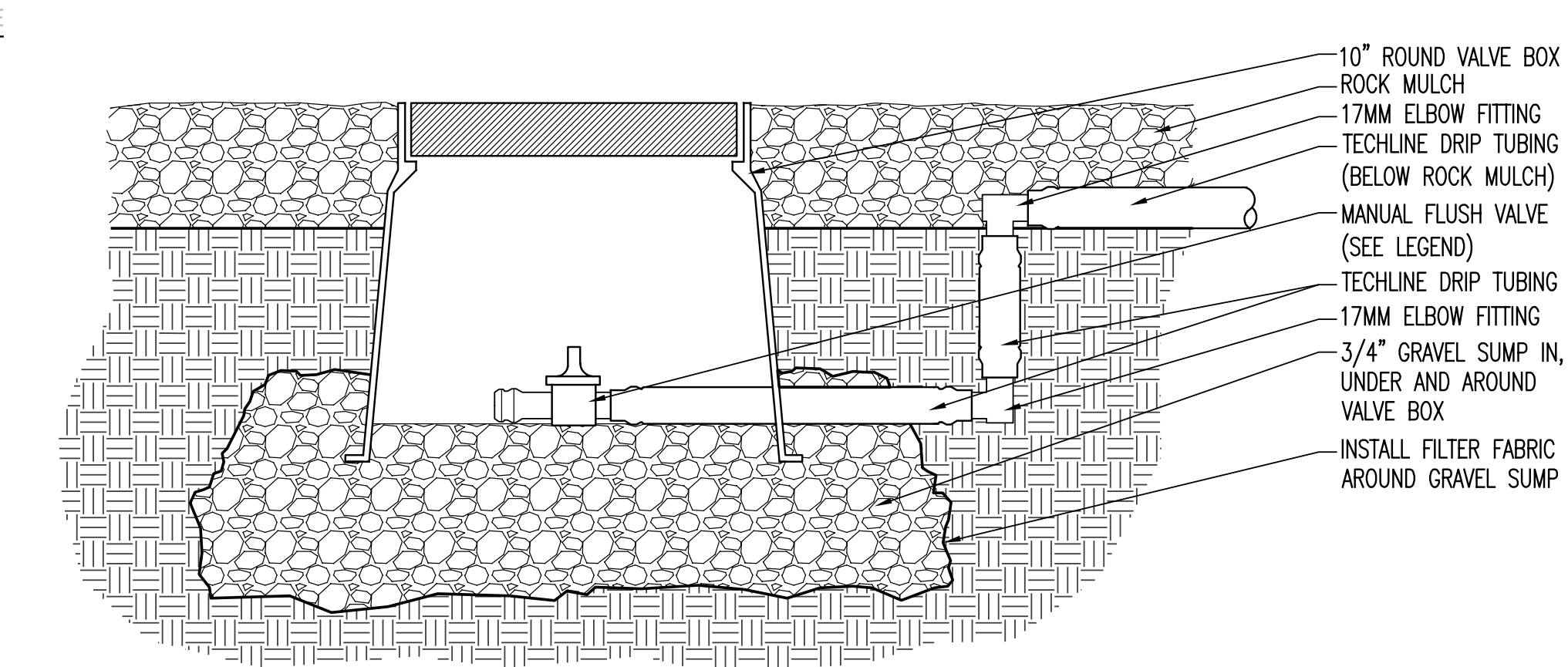
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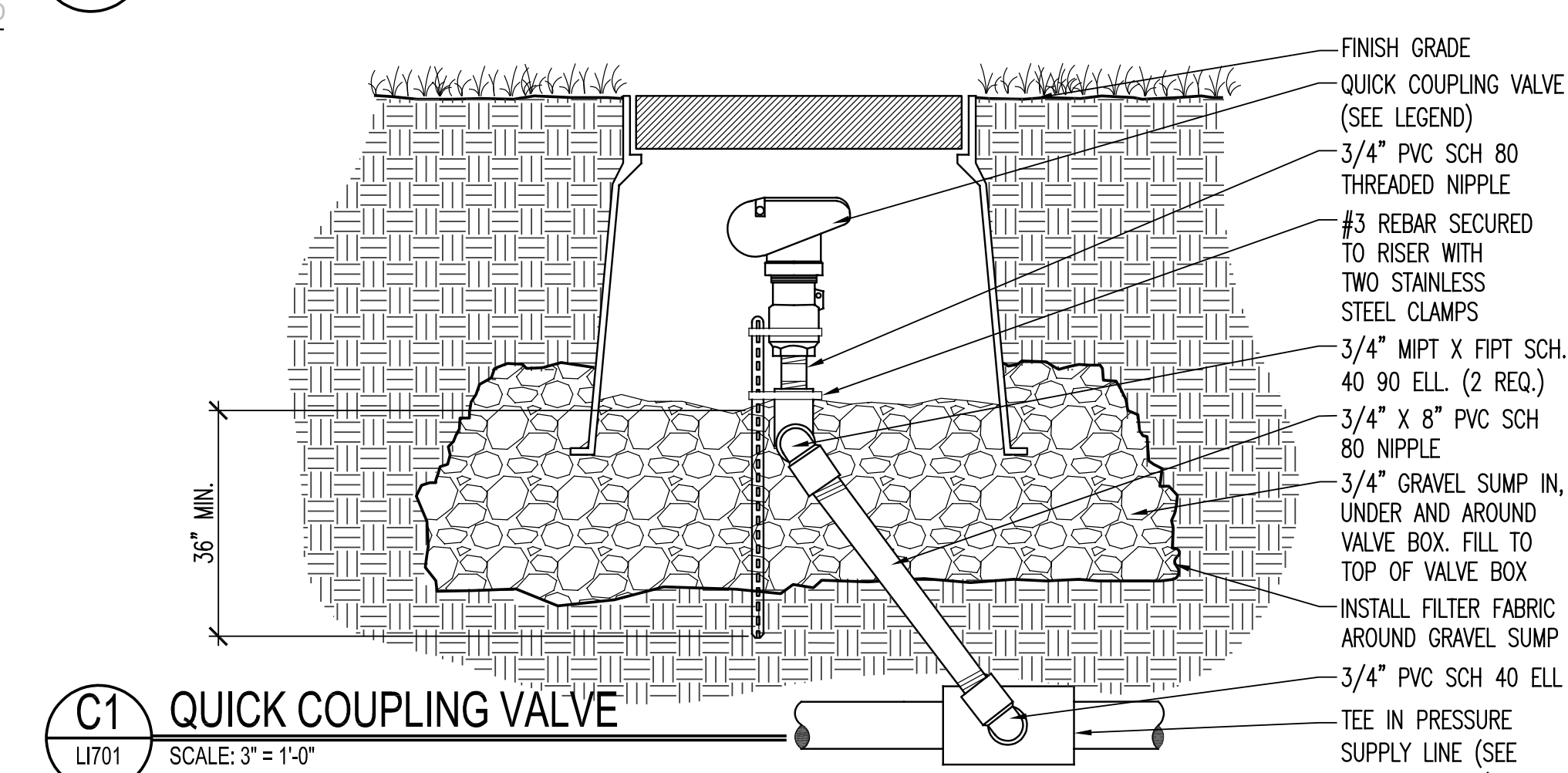
IRRIGATION LEGEND

LI601

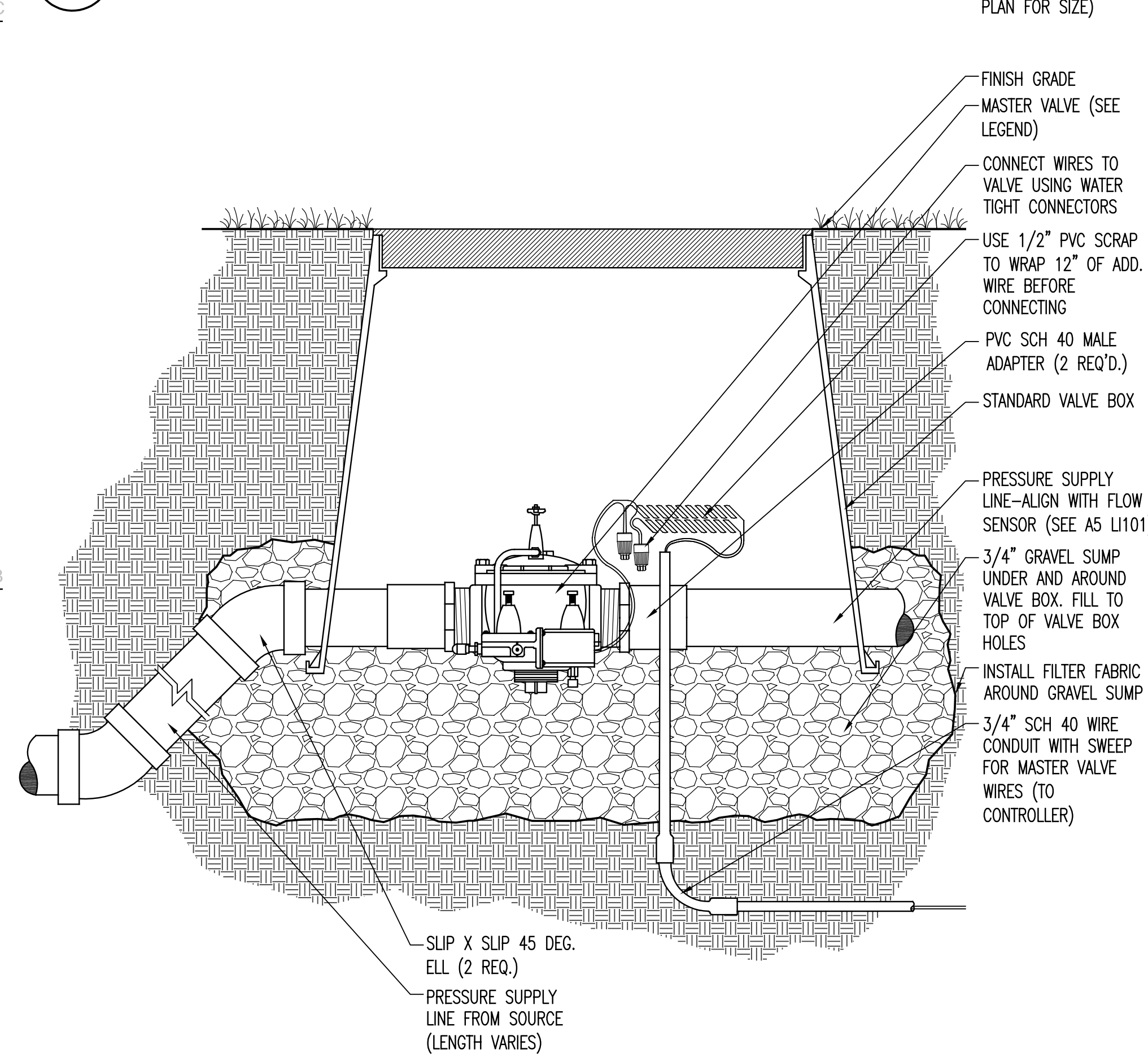




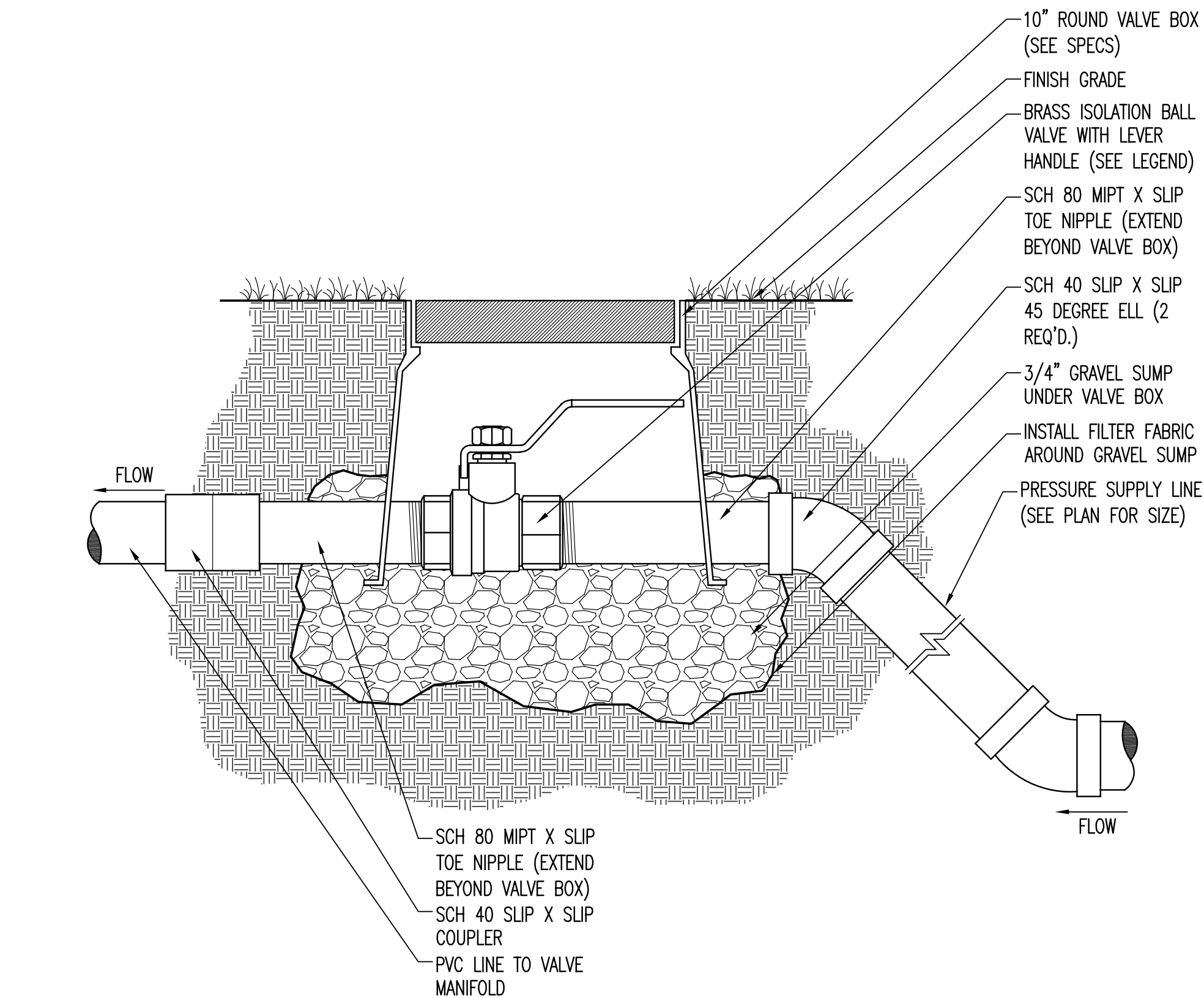
**D1** MANUAL FLUSH VALVE  
L1702 SCALE: 3" = 1'-0"



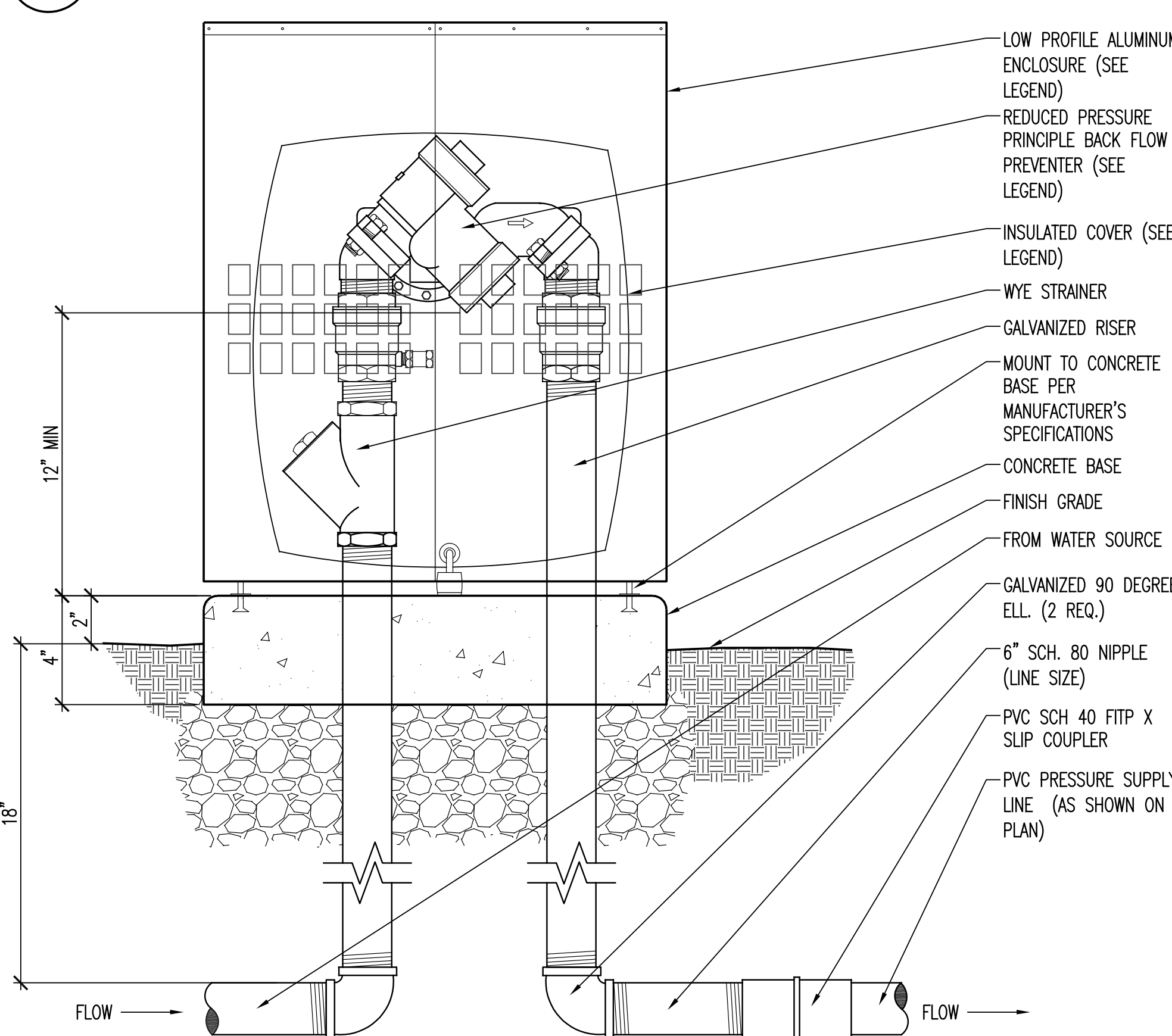
**C1** QUICK COUPLING VALVE  
L1701 SCALE: 3" = 1'-0"



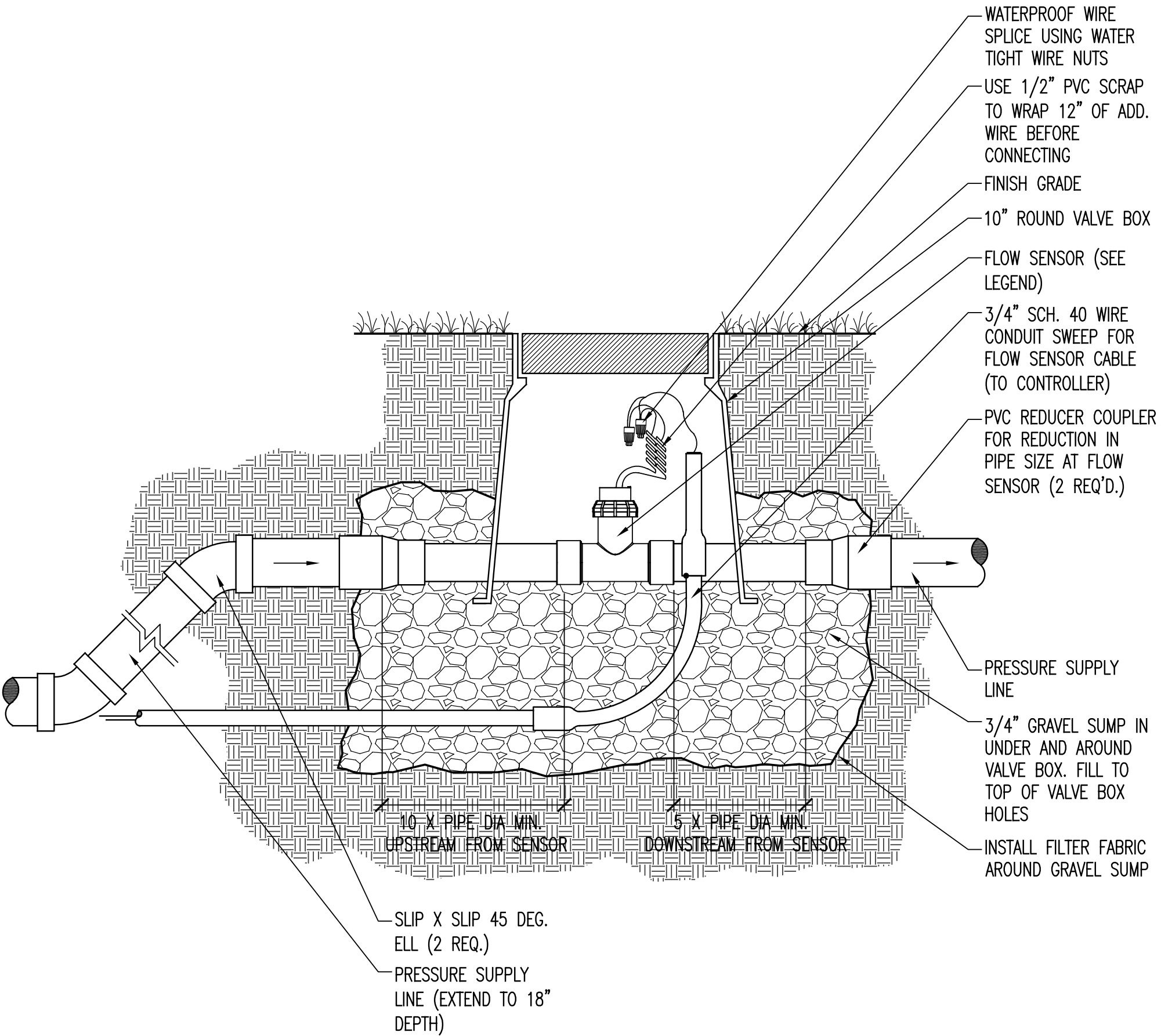
**A1** MASTER VALVE  
L1701 SCALE: 3" = 1'-0" FOR USE WITH POTABLE WATER



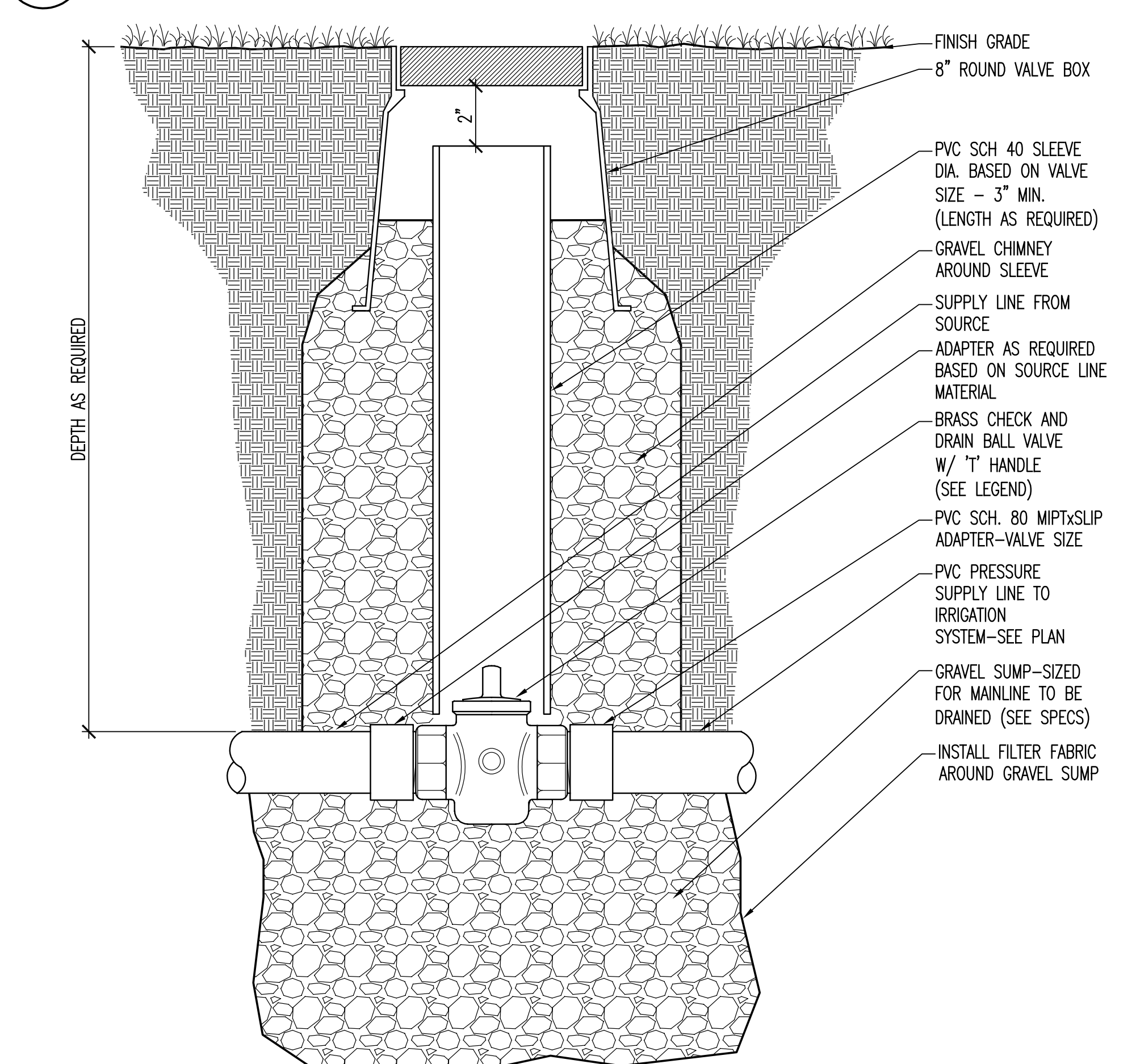
**C3** ISOLATION BALL VALVE  
L1701 SCALE: 3" = 1'-0"



**A3** BACK FLOW PREVENTION DEVICE  
L1701 SCALE: 3" = 1'-0"

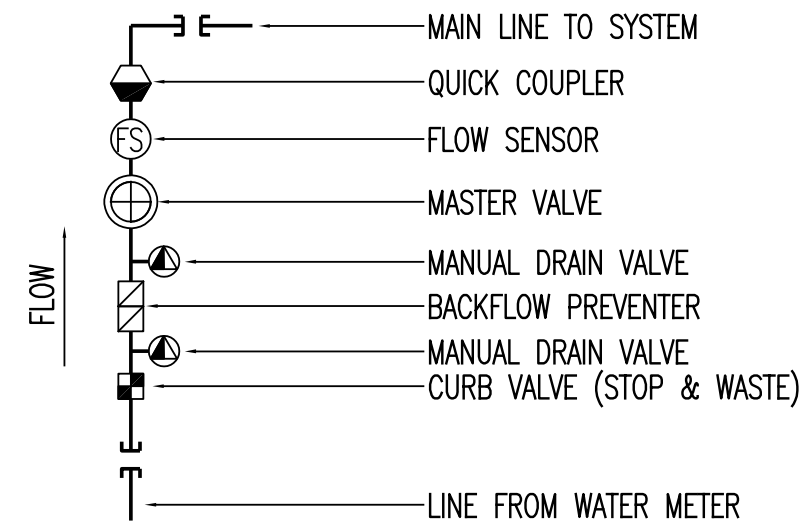


**C5** FLOW SENSOR  
L1701 SCALE: 3" = 1'-0"



**A5** STOP AND WASTE VALVE  
L1701 SCALE: 3" = 1'-0"

NOTE:  
PRIOR TO BLOWING OUT SYSTEM, THE MASTER VALVE  
MUST BE CLOSED AND THE FLOW SENSOR REMOVED.



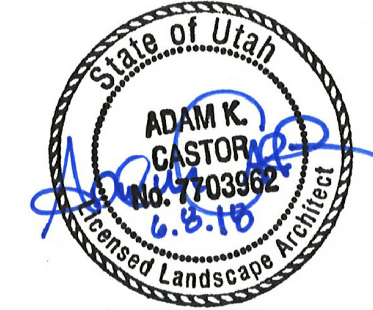
**E6** POC SCHEMATIC LAYOUT  
L1701 SCALE: NTS



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**IRRIGATION DETAILS**

**LI701**

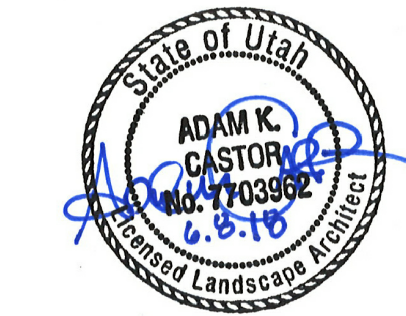




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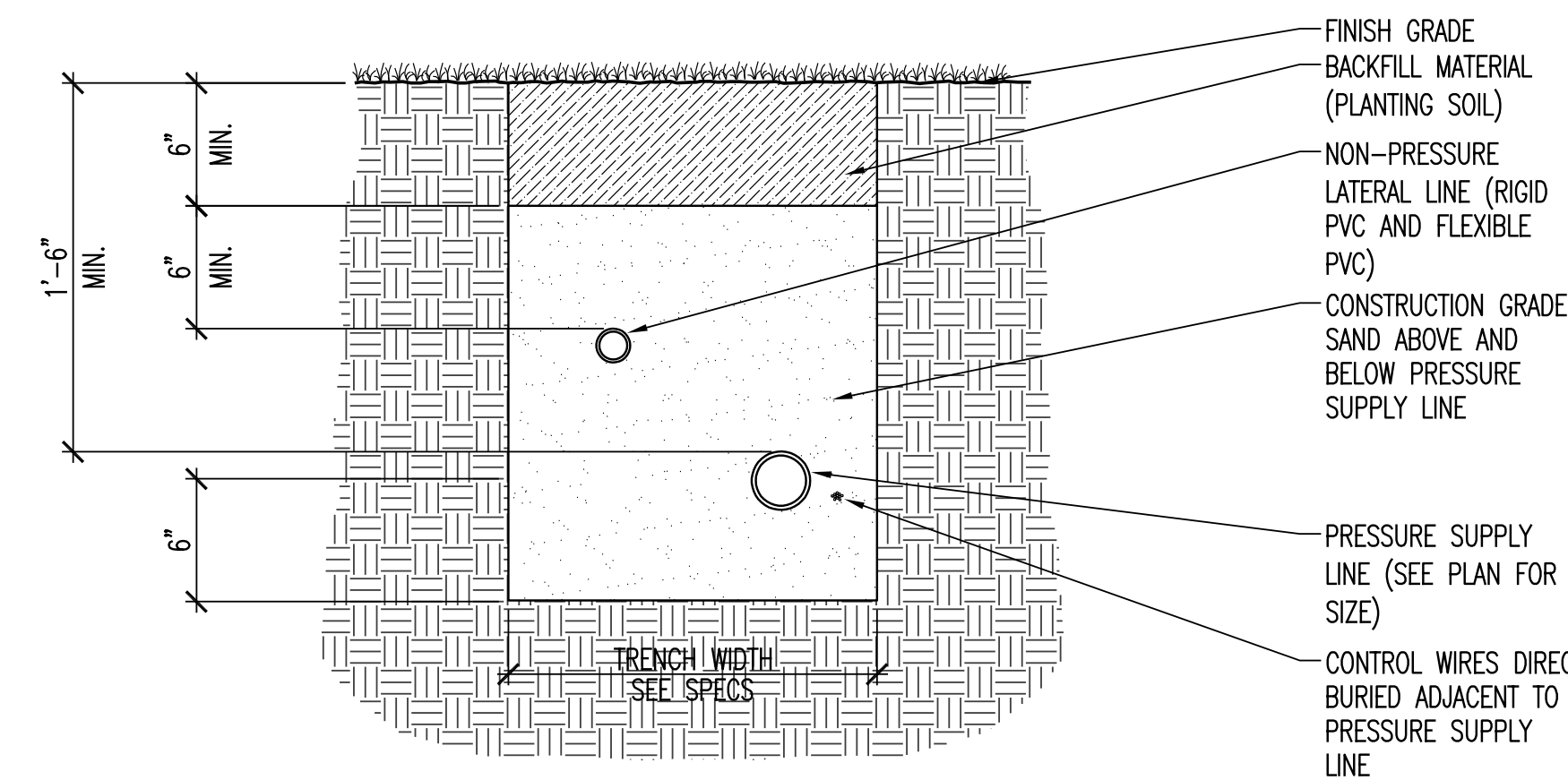
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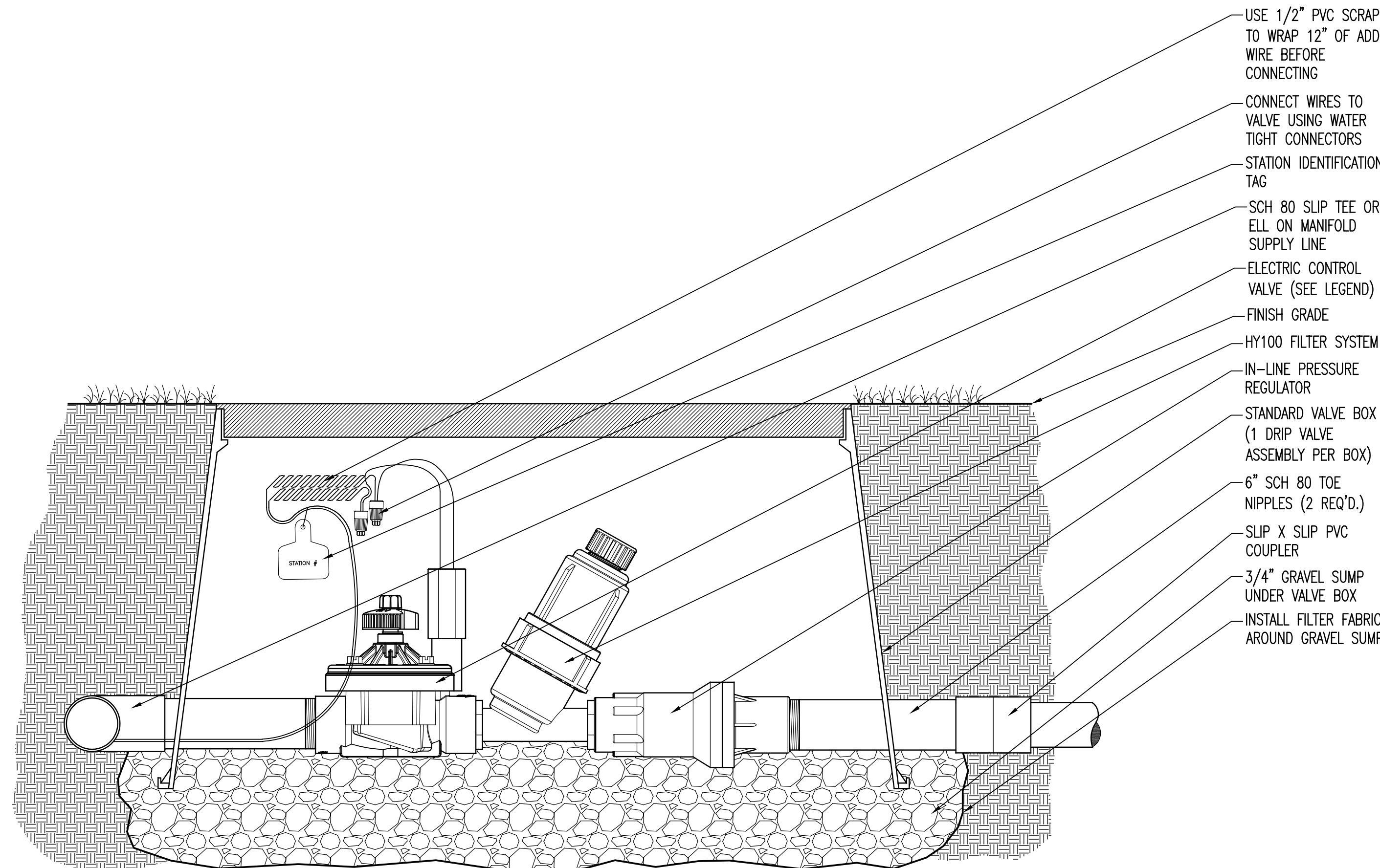
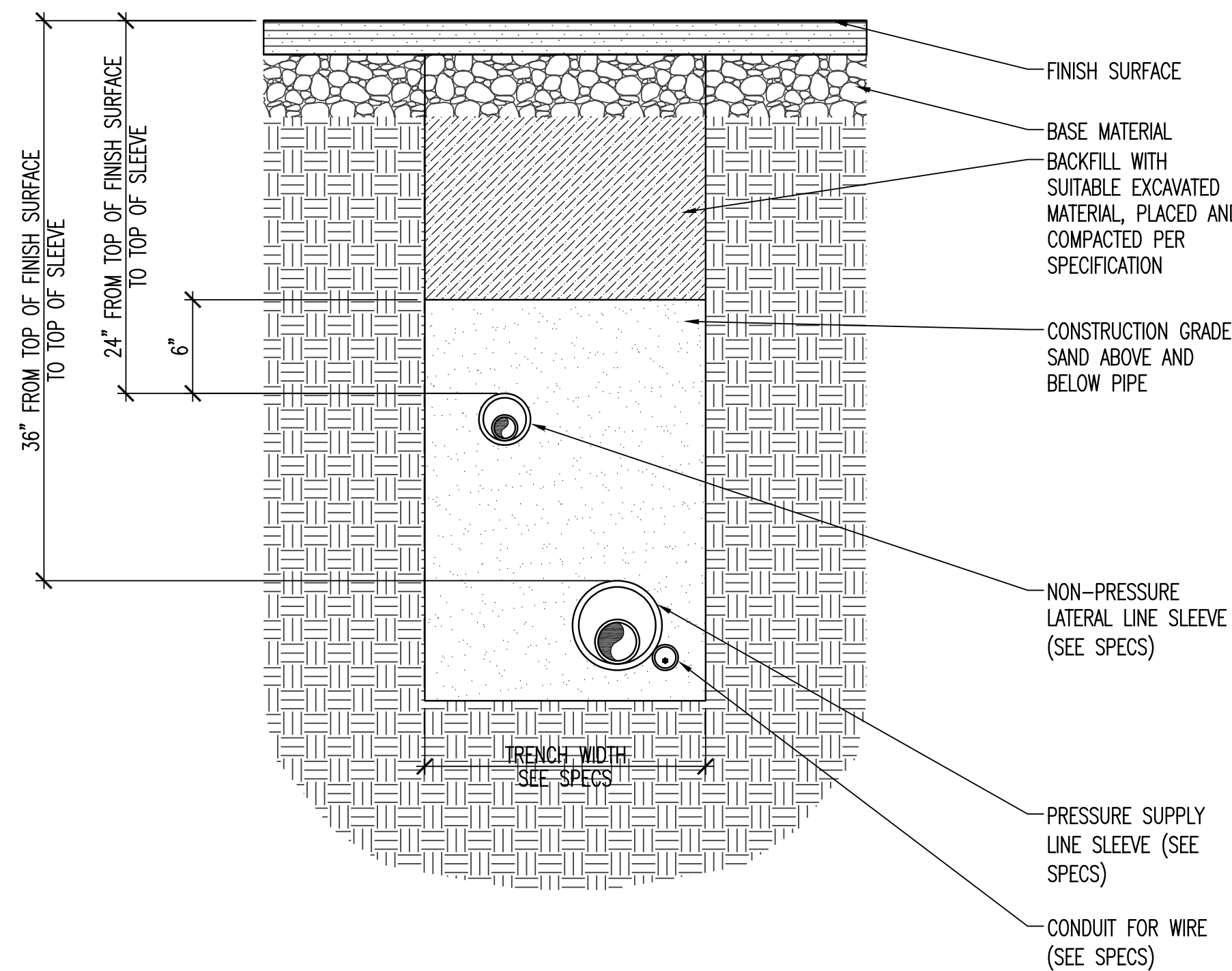
**IRRIGATION DETAILS**

**LI702**



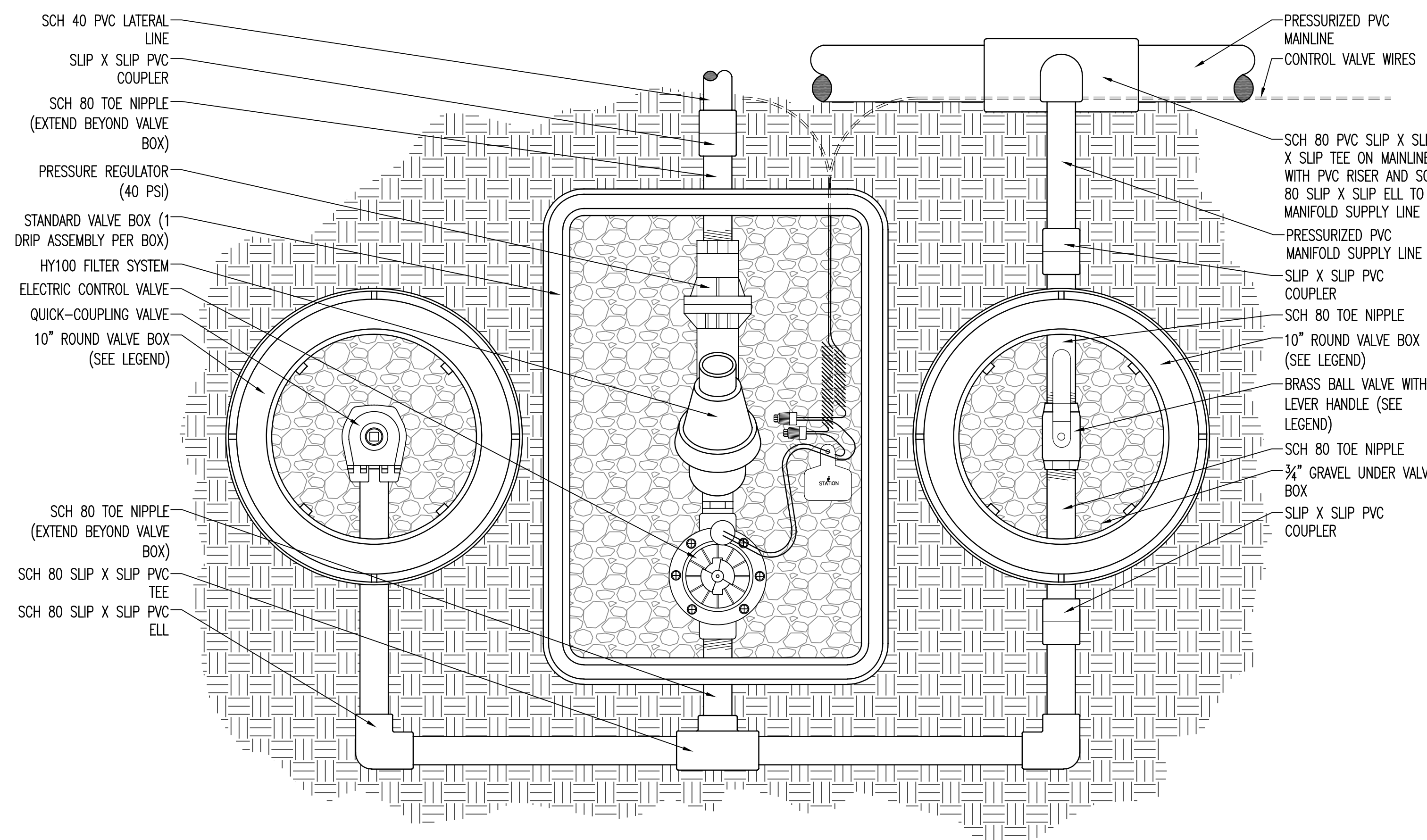
**E5 TRENCH IN PLANTER AREA**

L1702 SCALE: 1 1/2" = 1'-0"



**C2 ELECTRIC CONTROL VALVE (DRIP VALVE ASSEMBLY)**

L1702 SCALE: 3" = 1'-0"

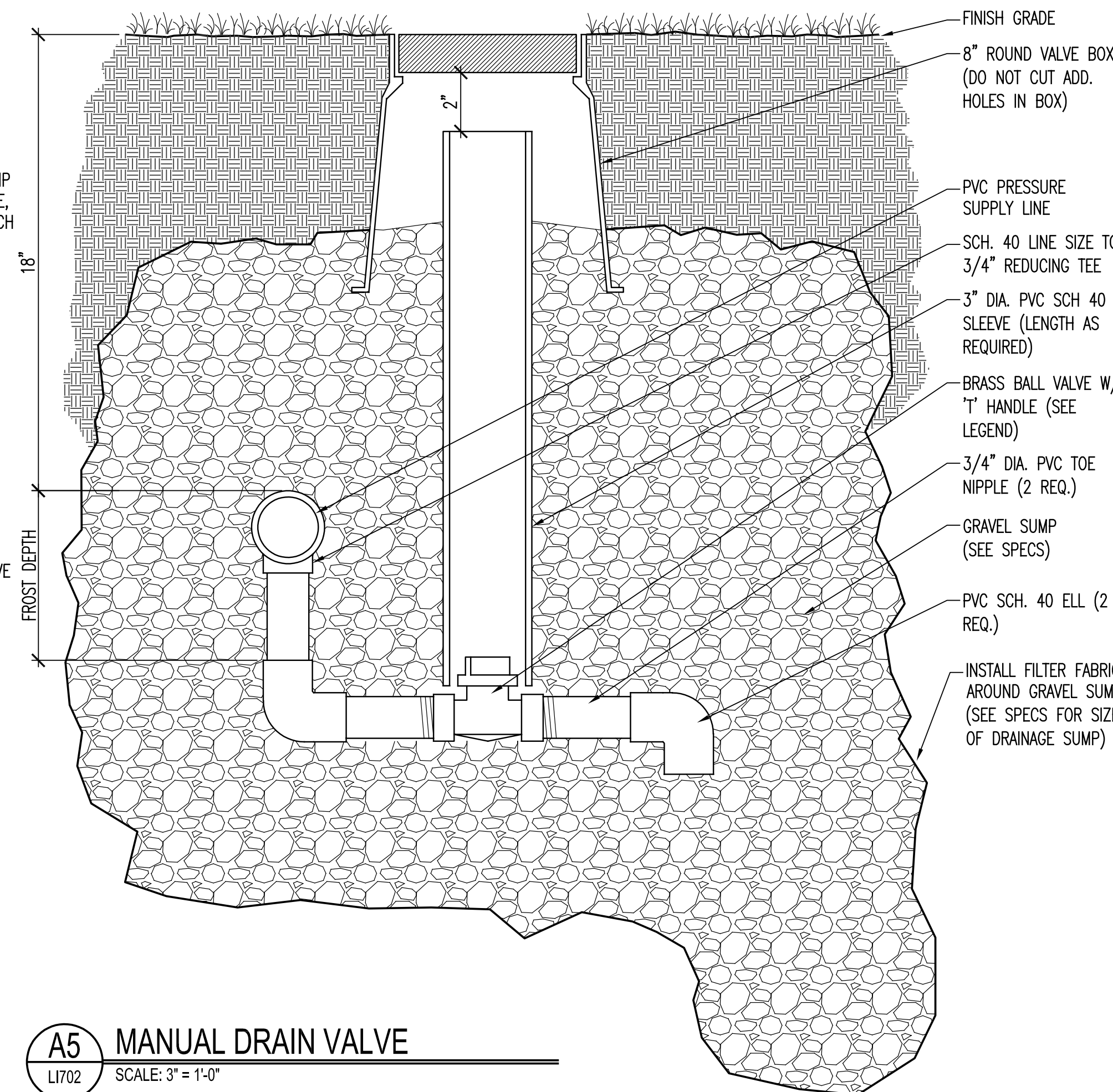


**A2 VALVE MANIFOLD ASSEMBLY (DRIP ZONES)**

L1702 3" = 1'-0"

**C5 TRENCH UNDER HARDSCAPE**

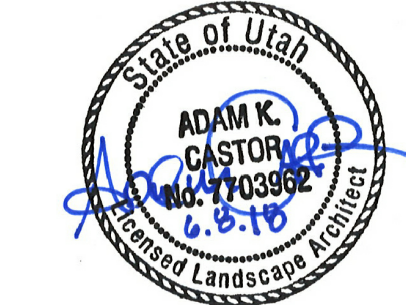
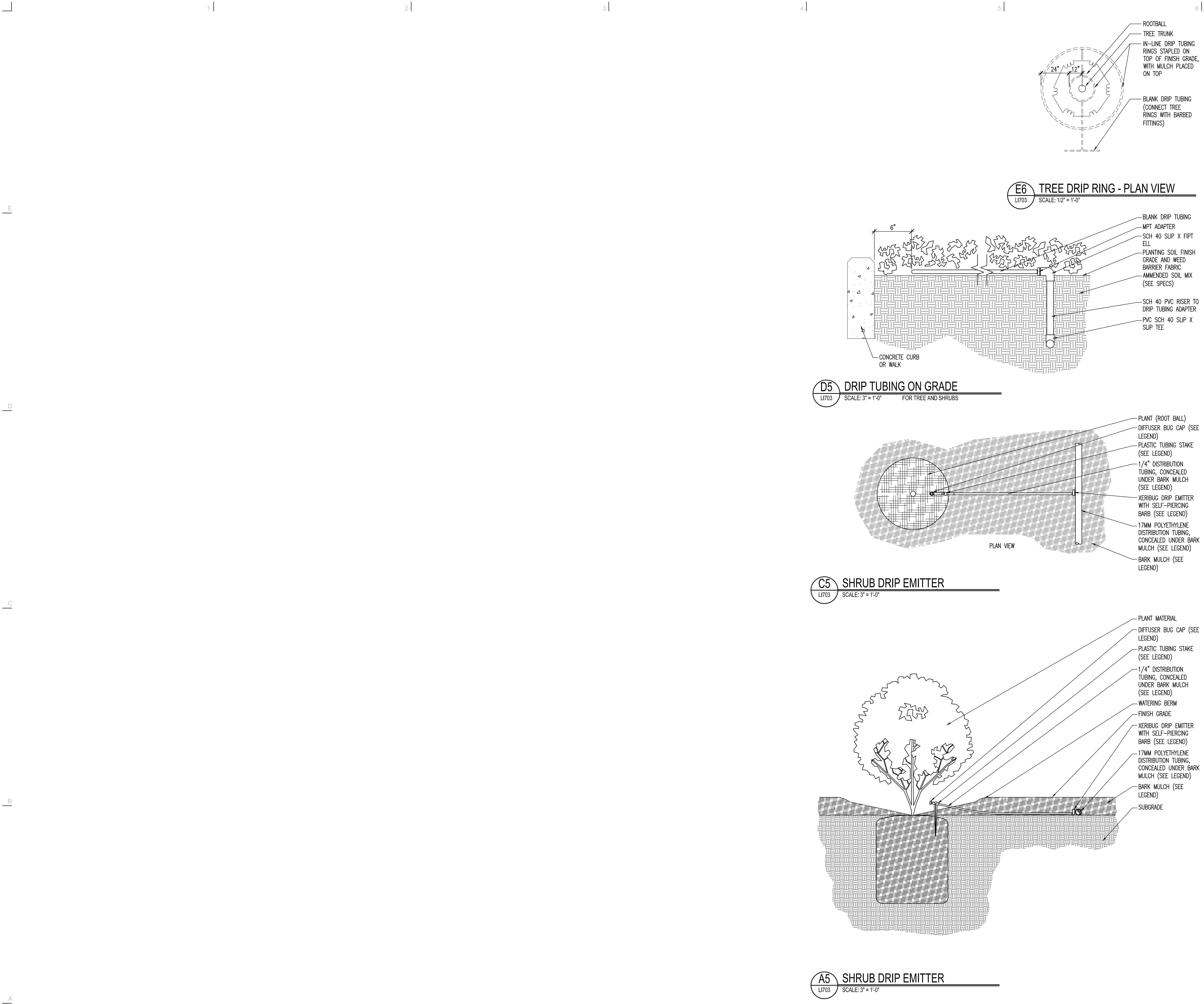
L1702 SCALE: 1 1/2" = 1'-0"



**A5 MANUAL DRAIN VALVE**

L1702 SCALE: 3" = 1'-0"





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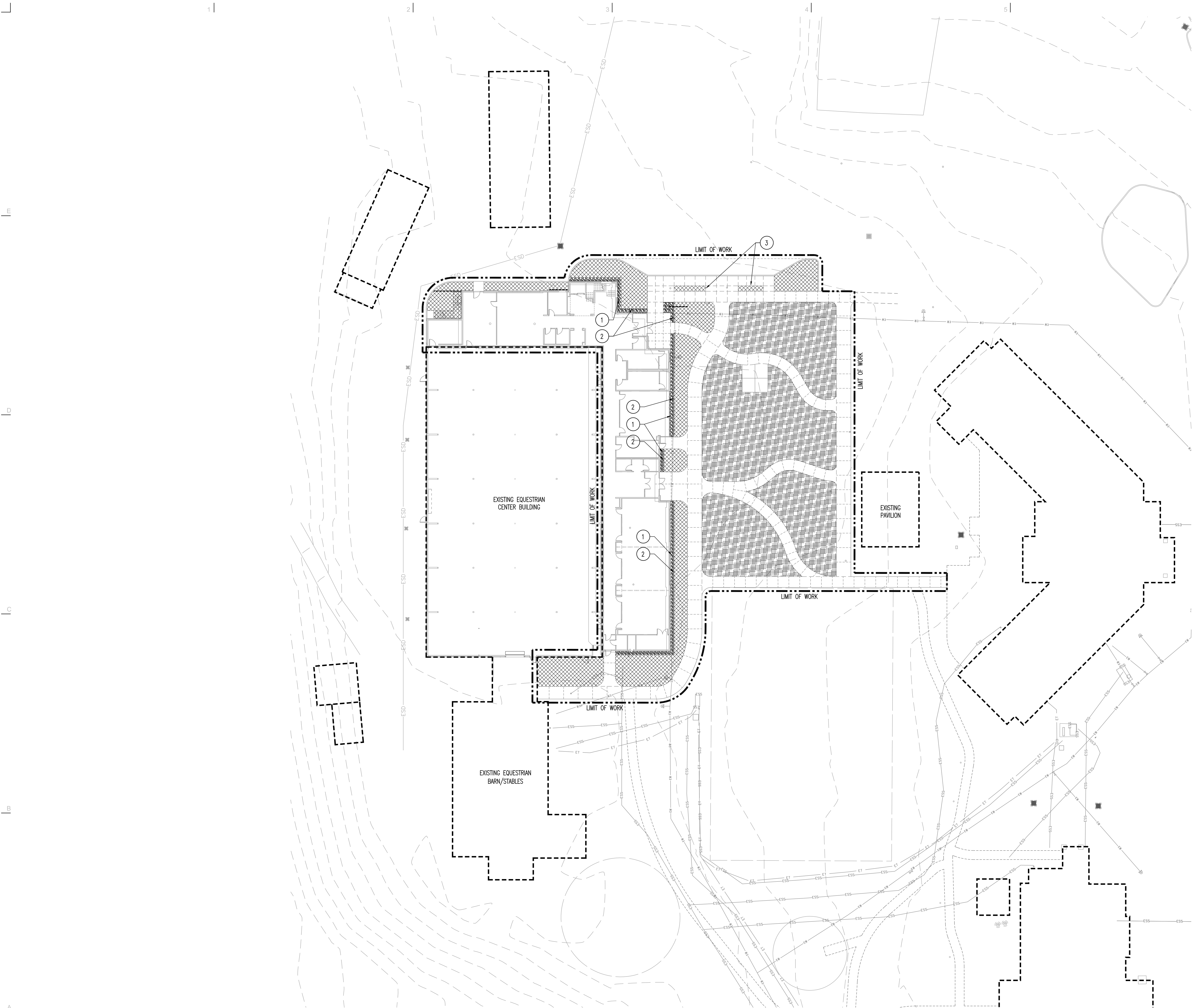
#	Date	Revision
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**CONSTRUCTION DOCUMENTS**

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**IRRIGATION DETAILS**





**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 LANDSCAPE AREA - ORGANIC BARK MULCH, INSTALLED TO A MINIMUM 3" DEPTH
- EXISTING MEMORY GARDEN - ASPEN GROVES, NATIVE AND WATER-WISE SHRUBS, GRASSES, AND WILDFLOWERS
- LANDSCAPE DRIP EDGE - 2"-3" DECORATIVE COBBLE ROCK WITH 4" STEEL EDGING

**PLANTING PLAN GROUND PLANE KEY NOTES:**

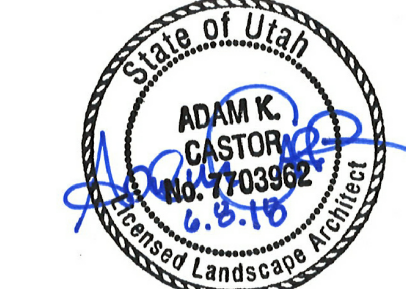
1. COBBLE DRIP EDGE - 24" WIDTH
2. ALUMINUM EDGING - 4" HEIGHT
3. ON-GRADE PLANTER



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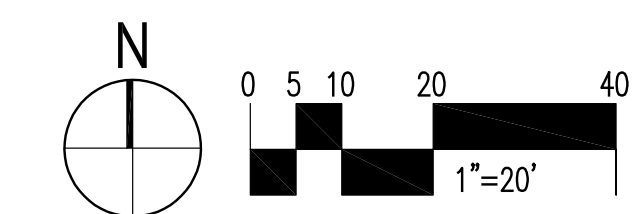
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# Date Revision

**CONSTRUCTION DOCUMENTS**

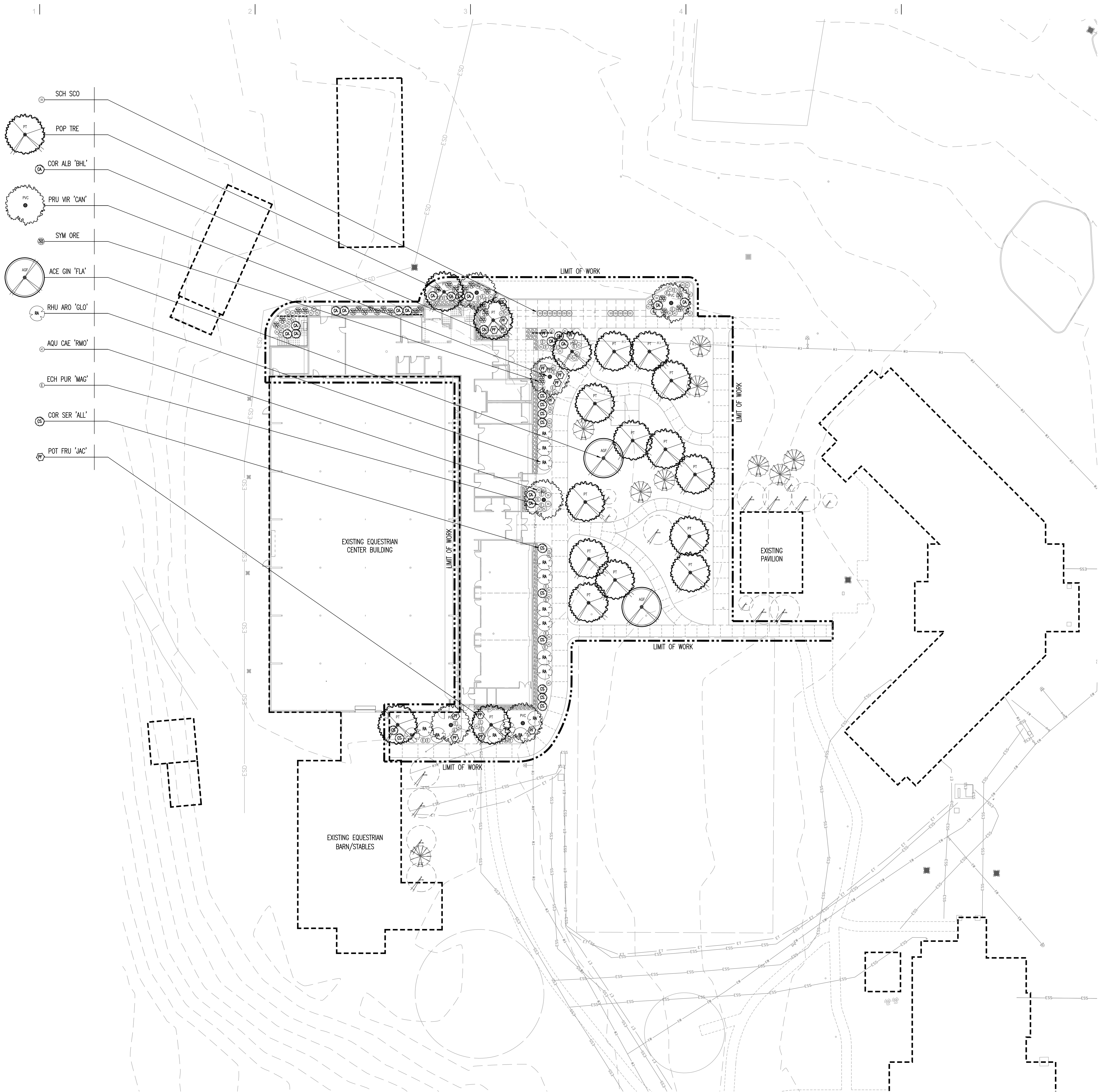
NEXUS PROJ. #: 17179  
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DRAWN BY: AKC  
DATE: 06.08.18

**PLANTING PLAN (GROUND PLANE)**



**LP101**





PLANTING PLAN GENERAL NOTES:

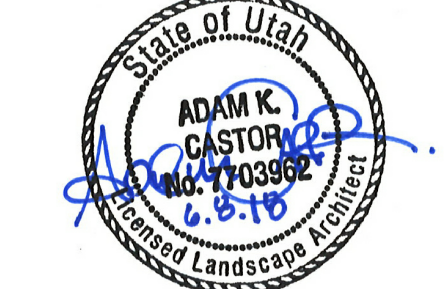
1. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE EXISTING AND NEW SITE CONDITIONS WITH THE PLANTING PLAN PRIOR TO BEGINNING WORK AND IMMEDIATELY NOTIFYING THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE PLANTING PLANS. IN THE EVENT THE CONTRACTOR FAILS TO COMARE 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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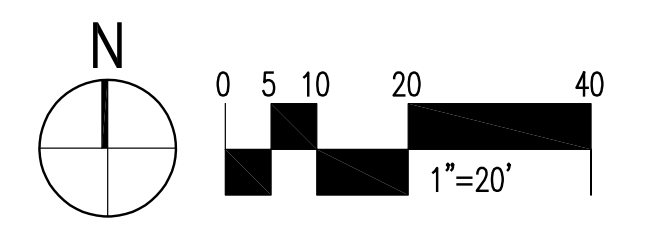
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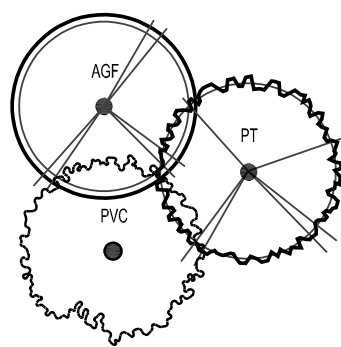
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PLANTING PLAN



LP111





TREES											
ABBREVIATIONS	BOTANICAL NAME	COMMON NAME	ZONE	TRUNK	MATURE SIZE HEIGHT X WIDTH	INSTALLED SIZE	QUANTITY	NATIVE	WATER WISE	CROP COEFFICIENT (Kc)	DETAIL NUMBER

ACE GIN 'FLA'	Acer ginnala 'Flame'	Flame Amur Maple	2	M	20'x20'	10-12'	2	No	Yes	M	E6 LP701
POP TRE	Populus tremuloides	Quaking Aspen	2	M	40'x20'	#25 gal.	18	Yes	No	M	E6 LP701
PRU VIR 'CAN'	Prunus virginiana 'Canada Red'	Canada Red Chokecherry	2	M	20'x20'	2" cal.	6	No	No	L	E6 LP701

SHRUBS											
ABBREVIATIONS	BOTANICAL NAME	COMMON NAME	ZONE	TRUNK	MATURE SIZE HEIGHT X WIDTH	INSTALLED SIZE	QUANTITY	NATIVE	WATER WISE	CROP COEFFICIENT (Kc)	DETAIL NUMBER

COR ALB 'BHL'	Cornus alba 'Bailhale'	Ivory Halo™ Dogwood	3	—	5'x5'	#5 gal.	15	No	No	M	C5 LP701
COR SER 'ALL'	Cornus sericea 'Alleman's Compact'	Alleman's Compact Red Osier Dogwood	3	—	5'x5'	#5 gal.	12	No	No	M	C5 LP701
POT FRU 'JAC'	Potentilla fruticosa 'Jackmanii'	Jackman Shrubby Cinquefoil	2	—	4'x4'	#5 gal.	15	No	Yes	L	C5 LP701
RHU ARO 'GLO'	Rhus aromatica 'Grow Low'	Grow Low Sumac	4	—	30"x8"	#5 gal.	16	No	Yes	L	C5 LP701
SYM ORE	Symphoricarpos oreophilus	Mountain Snowberry	3	—	4'x4'	#5 gal.	15	Yes	Yes	L	C5 LP701

GRASSES													
ABBREVIATIONS	BOTANICAL NAME	COMMON NAME	ZONE	SEASON	COLOR	MATURE SIZE HEIGHT X WIDTH	SIZE	QTY.	NATIVE	WATER WISE	CROP COEFFICIENT (Kc)	DETAIL NUMBER	

SCH SCO	Schizachyrium scoparium	Little Bluestem	3	—	—	4'x3'	#1 gal.	18	No	Yes	L	D5	LP701
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PERENNIALS													
ABBREVIATIONS	BOTANICAL NAME	COMMON NAME	ZONE	SEASON	COLOR	HEIGHT	SIZE	QTY.	NATIVE	WATER WISE	CROP COEFFICIENT (Kc)	DETAIL NUMBER	

AQU CAE 'RMO'	Aquilegia caerulea	Rocky Mountain Columbine	3	Spr.	Blue and White	18-20"	#1 gal.	53	No	Yes	M	D5	LP701
ECH PUR 'MAG'	Echinacea purpurea	Magnus Coneflower	3	Sum/Fall	Purple	12-24"	#1 gal.	33	No	Yes	L	D5	LP701

MATERIALS						
PRODUCT	MANUFACTURER/SUPPLIER	SIZE	COLOR	QTY.	DESCRIPTION	DETAIL NUMBER

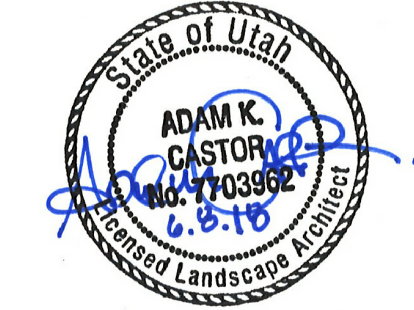
	SHREDDED BARK MULCH	APPROVED LOCAL SUPPLIER	CHOCOLATE BROWN	3,970 SQ.FT. 37 CU. YDS.	SHREDDED HARDWOOD BARK MULCH FOR LANDSCAPED AREAS	B6 LP701
	DECORATIVE COBBLE ROCK	APPROVED LOCAL SUPPLIER	TANS AND BROWNS	580 SQ.FT. 11 CU. YDS.	ROUNDED COBBLE ROCK MULCH IN A COMBINATION OF CREAM, TAN, AND BROWN WITH SHADES OF RUST AND DARK GRAY	C6 LP701
	LANDSCAPE EDGING	PERMALOC	MILL	SEE PLAN	4" ALUMINIUM "L" SHAPED PERMASTRIP LANDSCAPE EDGING	C6 LP701
	ROOT BARRIER FABRIC	TYPAR (800) 541-5519	YELLOW	FIELD VERIFY	BIOBARRIER ROOT CONTROL SYSTEM FOR ALL TREES PLANTED WITHIN 4' OF HARDSCAPES	D6, E6 LP701



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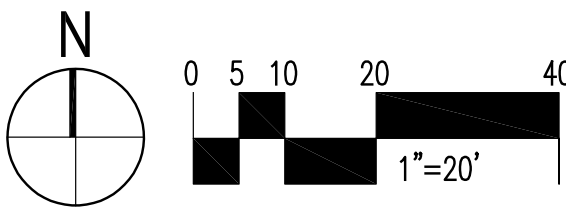
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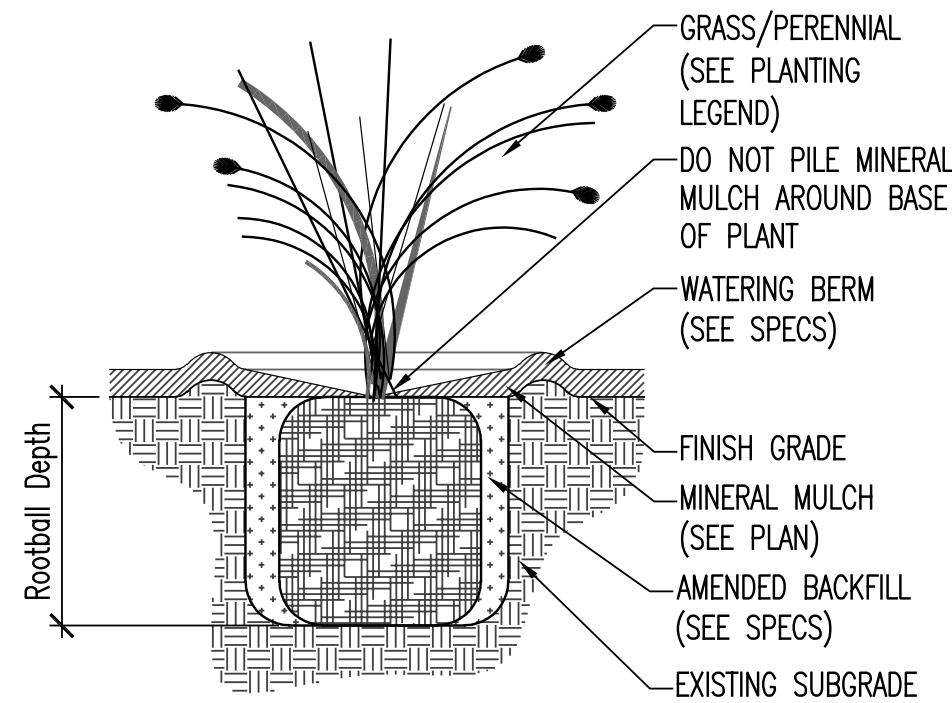
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PLANTING LEGEND

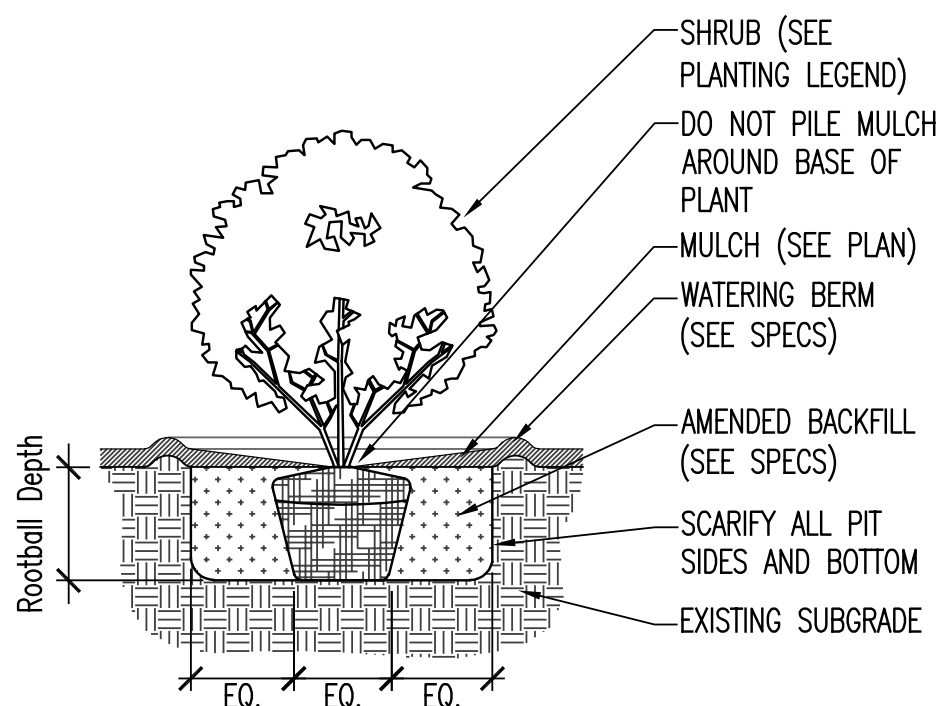


LP601

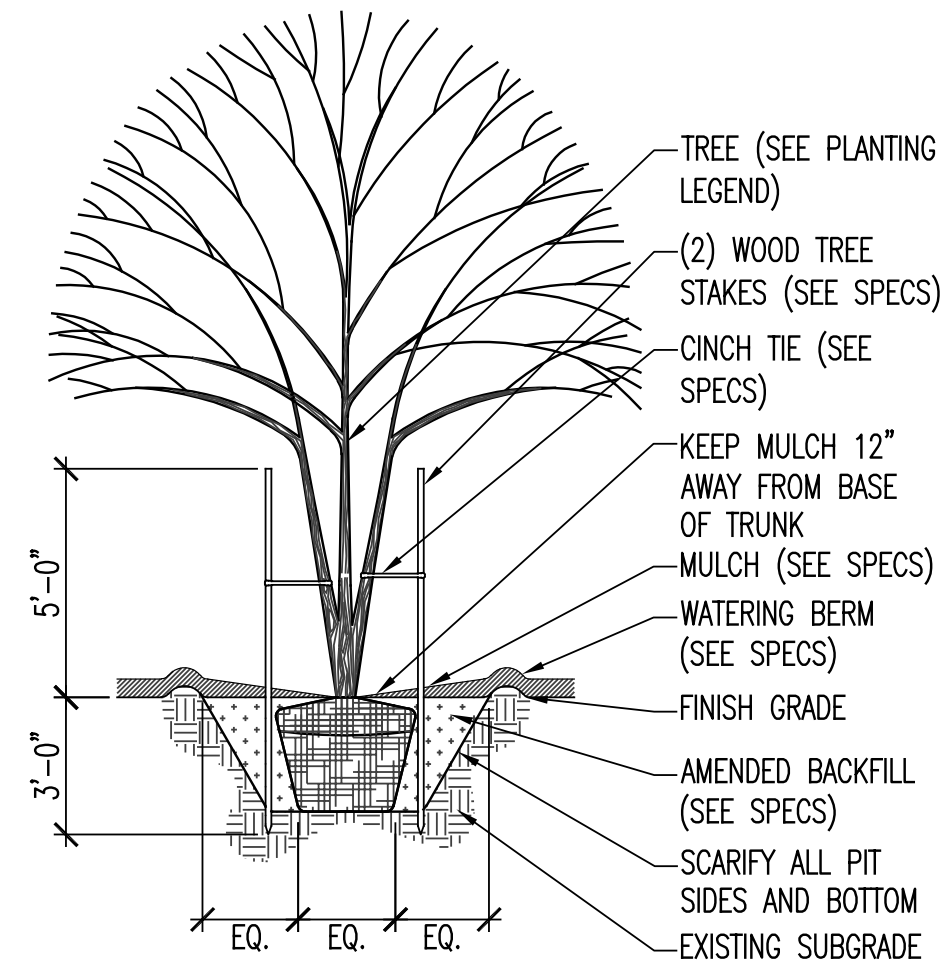




**D5 GRASSES / PERENNIALS**  
LP701 SCALE: 1" = 1'-0"

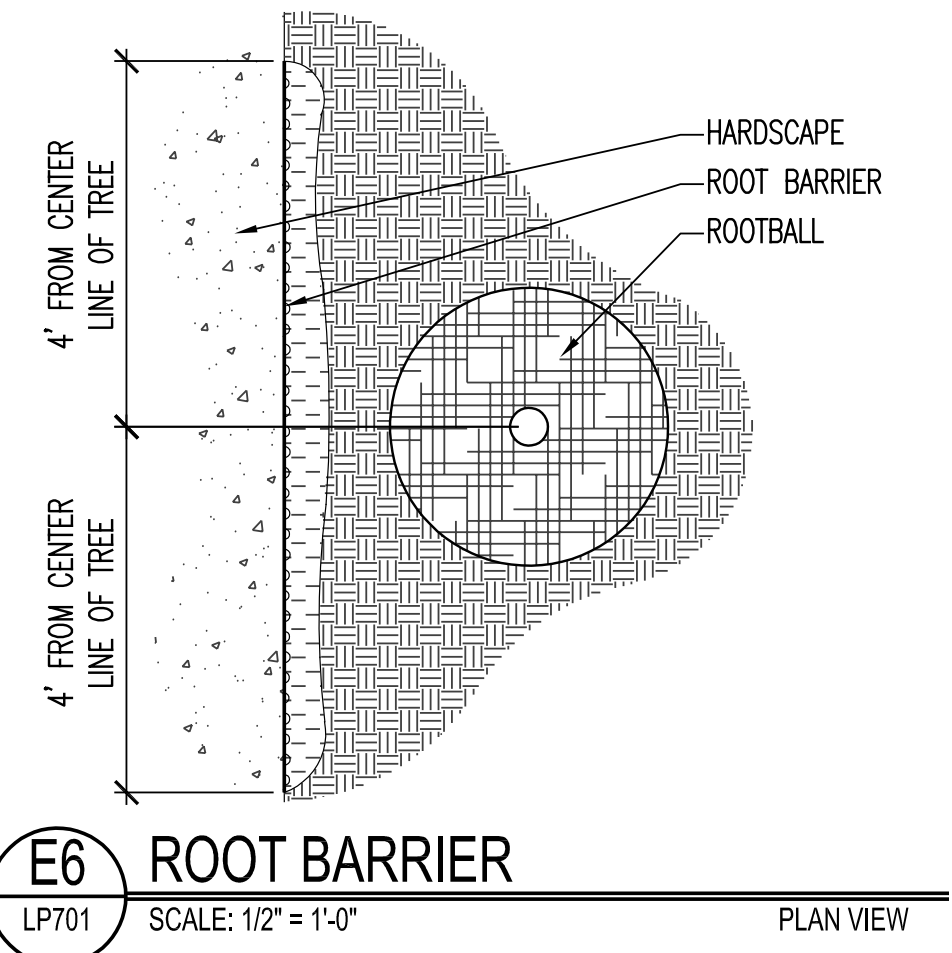


**C5 SHRUB ON GRADE**  
LP701 SCALE: 1/2" = 1'-0"

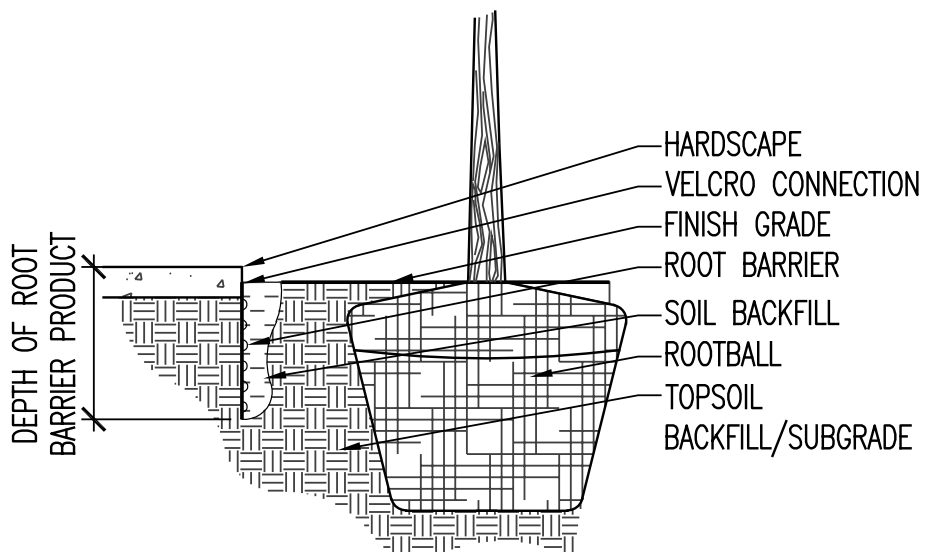


**A5 MULTI-STEM TREE WITH STAKING**  
LP701 SCALE: 1/4" = 1'-0"

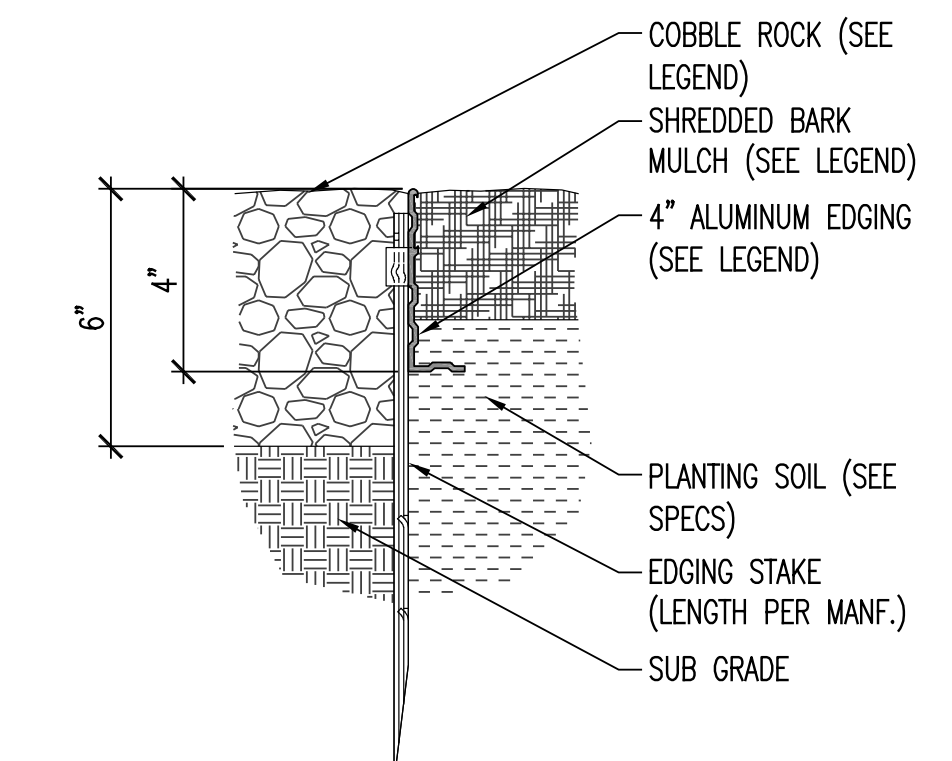
- FOR B&B TREES, UNTIE ROPE AND REMOVE TOP 1/3 OF BURLAP. FOR NON-BIO-DEGRADABLE MATERIAL, REMOVE ALL WRAPPING.
- FOR TREES LOCATED WITHIN 4' OF HARDSCAPE, SEE ROOT BARRIER DETAIL.



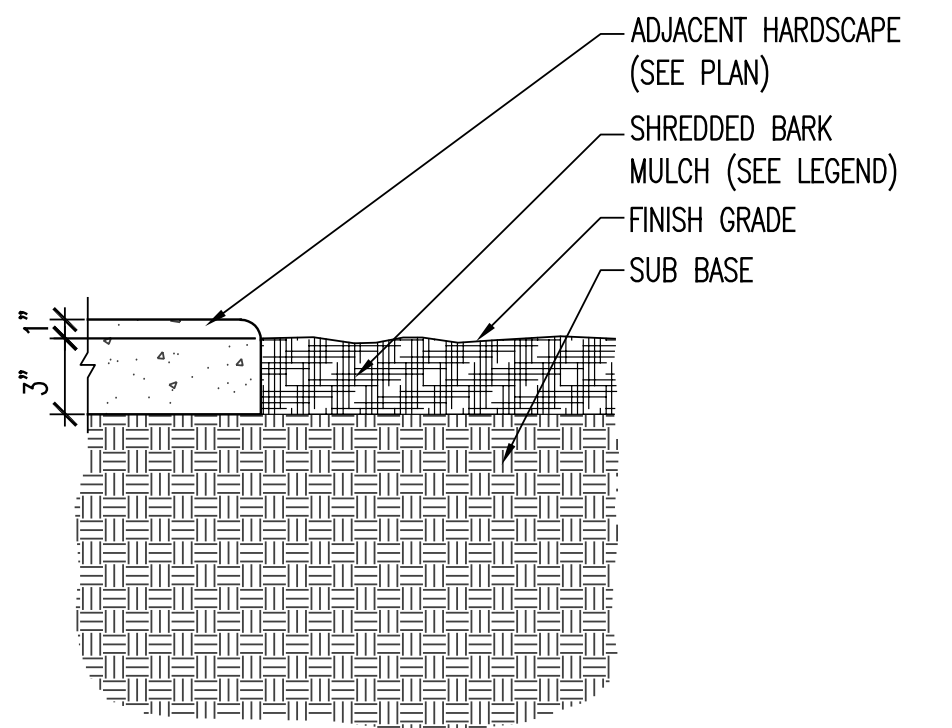
**E6 ROOT BARRIER**  
LP701 SCALE: 1/2" = 1'-0"



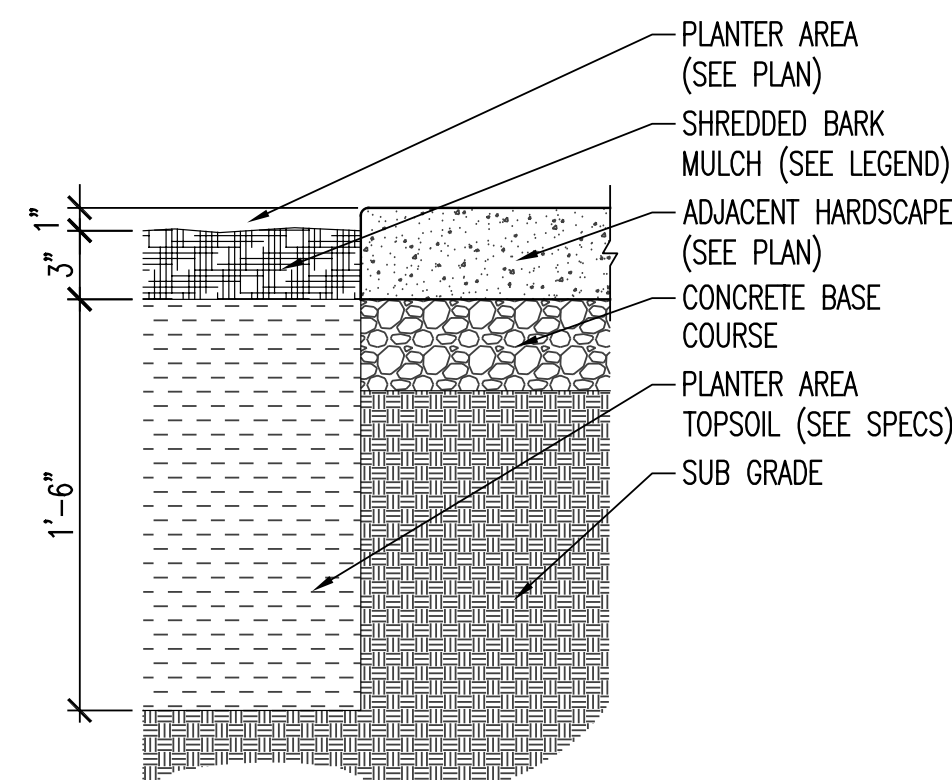
**D6 ROOT BARRIER**  
LP701 SCALE: 1/2" = 1'-0"



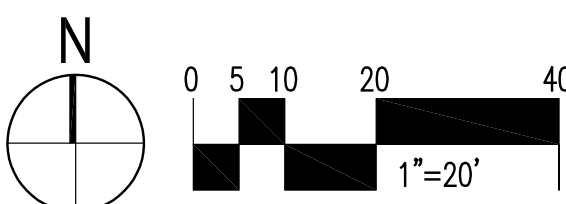
**C6 LANDSCAPE DRIP EDGE**  
LP701 SCALE: 3" = 1'-0"



**B6 SHREDDED BARK MULCH**  
LP701 SCALE: 1 1/2" = 1'-0"



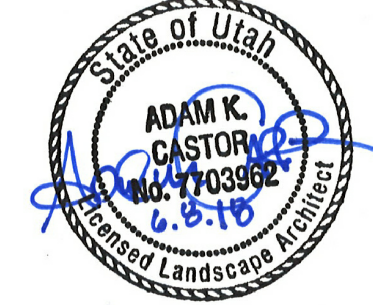
**A6 TOPSOIL DEPTH - PLANTER**  
LP701 SCALE: 1 1/2" = 1'-0"



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# Date Revision

**CONSTRUCTION DOCUMENTS**

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DRAWN BY: AKC  
DATE: 06.08.18

**PLANTING DETAILS**

**LP701**



C:\Users\Troy\Documents\15-1422 - Equestrian Center Expansion - v18\_Troy@archnexus.com.rvt

**STRUCTURAL NOTES :**

**A. GENERAL**

1. 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.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARCHITECTS 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.)
3. 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.
4. 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 APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
5. 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.
6. 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.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDERS SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. 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.
11. 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.
12. 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 IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS DESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. 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 THE 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**

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLED "S" OR "W". ALL OTHER SPECIAL INSPECTIONS ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEETS **S000** AND **S003**.
2. SPECIAL INSPECTIONS AS TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE. JOB SPECIFICATIONS, AND ACCORDANCE WITH THE IBC AND CHAPTER 17, CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1705.11 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.
4. 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 (FOOTINGS, WALLS, JOISTS, BEAMS, COLUMNS, DIAPHRAGMS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "S".

**C. BASIS OF DESIGN**

1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2015
1. RISK CATEGORY : II
2. SUSPENDED FLOOR LOADS  
a. LIVE LOAD = 50 PSF (OFFICE), 100 PSF (STAIRS)  
b. DEAD LOAD = 15 PSF
3. ROOF LOADS  
a. FLAT-ROOF SNOW LOAD, P<sub>s</sub> : 87 PSF  
b. SNOW EXPOSURE FACTOR, E<sub>s</sub> : 139 PSF  
c. SNOW LOAD IMPORTANCE FACTOR, I<sub>s</sub> : 1  
d. THERMAL FACTOR, C<sub>t</sub> : 1
4. LIVE LOAD = 20 PSF  
b. DEAD LOAD = 15 PSF
4. WIND DESIGN  
a. BASIC WIND SPEED (3 SECOND GUST) : 115 MPH  
b. WIND EXPOSURE : C  
c. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10: SEISMIC DESIGN  
a. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> : 1  
b. SITE CLASS : D  
c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : S<sub>s</sub> = 0.624, S<sub>1</sub> = 0.209  
d. SPECTRAL RESPONSE COEFFICIENTS : S<sub>DS</sub> = 0.541, S<sub>1D</sub> = 0.276  
e. SEISMIC DESIGN CATEGORY : D  
f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : LIGHT FRAME WOOD SHEARWALLS WITH PLYWOOD SHEATHING  
g. DESIGN BASE SHEAR : V<sub>UB</sub> = C<sub>s</sub> x F x W<sub>E</sub> / W<sub>E</sub> = C<sub>s</sub> x W  
h. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> : 0.093  
i. RESPONSE MODIFICATION FACTOR, R : 6.5  
j. ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE

**D. FOUNDATION**

1. DESIGN SOIL PRESSURE : 1800 PSF (800 PSF MIN)
2. SOILS REPORT BY : IGES
3. REPORT # : 02789-00  
DATED : March 20, 2018
3. SOIL PREPARATION UNDER FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
4. 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.
5. 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.
6. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS.
7. 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**

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW.
  - a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS :
    1. WHERE THE TOP OF THE ELEMENT IS EXPOSED (EXPOSURE CATEGORY F1) :
      - i. MAXIMUM COMPRESSIVE STRENGTH : 4500 PSI
      - ii. MAXIMUM W/C RATIO : 0.45
      - iii. MAXIMUM AGGREGATE SIZE : 4.5% +/- 1.5%
      - iv. AIR CONTENT : 4.5% +/- 1.5%
    2. WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED (EXPOSURE CATEGORY F0) :
      - i. MAXIMUM COMPRESSIVE STRENGTH : 3000 PSI
      - ii. MAXIMUM W/C RATIO : 0.45
      - iii. MAXIMUM AGGREGATE SIZE : 4.5% +/- 1.5%
      - iv. AIR CONTENT : 4.5% +/- 1.5%
  - b. RETAINING WALLS (EXPOSURE CATEGORY F1) :
    1. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI
    2. MAXIMUM W/C RATIO : 0.45
    3. MAXIMUM AGGREGATE SIZE : 1" 4.5% +/- 1.5%
    4. AIR CONTENT : 4.5% +/- 1.5%
  - c. INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) :
    1. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI
    2. MAXIMUM W/C RATIO : 0.45
    3. MAXIMUM AGGREGATE SIZE : 1" 4.5% +/- 1.5%
    4. AIR CONTENT : 4.5% +/- 1.5%
  - d. EXTERIOR SLABS (DOCKS, ETC.) (EXPOSURE CATEGORY F1) :
    1. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI
    2. MAXIMUM W/C RATIO : 0.45
    3. MAXIMUM AGGREGATE SIZE : 1" 4.5% +/- 1.5%
    4. MINIMUM AIR CONTENT : 4.5% +/- 1.5%
2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED AND 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.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN CONCRETE. SMOODED EDGES AND LOCATION OF DEPRESSIONS, CURBS, CHAMFERS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

THICKNESS	TOP & BOTTOM BARS	VERTICAL	HORIZONTAL
8"	(1) #5	#4 AT 18" O.C.	#4 AT 18" O.C.
8"	(2) #5	#4 AT 18" O.C.	#4 AT 12" O.C.
10"	(2) #5	#4 AT 12" O.C.	#5 AT 12" O.C.
12"	(2) #5	#4 AT 18" O.C. EA FACE	#5 AT 12" O.C. EA FACE
6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:  
4" THICK - #3 AT 18" O.C. EACH WAY  
6" THICK - #4 AT 18" O.C. EACH WAY  
PLACING NOTED OTHERWISE. SEE TYPICAL DETAILS FOR CONSTRUCTION JOINTS FOR SLABS ON GRADE. REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36" O.C. MAXIMUM SPACING.
7. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" IN DIAMETER, THE STRENGTH AND LOCATION OF OPENINGS SHALL BE 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, TYP.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS. DO NOT PROVIDE COLD DETAILS FOR CONSTRUCTION JOINTS FOR SLABS ON GRADE.
9. WHEN 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**

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER ASCE SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING :
  - a. AT WOOD STUDS AND WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TEMBER NOTES FOR MORE INFORMATION.
  - b. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS (ASTM A307) WITH DOUBLE NUT AND WASHER.
  2. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
  3. FURNISH TEMPLATES AND OTHER SERVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND GROUT.
  4. IF 1/4" < BF < 12" : 1/4" 3/16"
  5. IF 12 1/2" < BF < 18" : 1/2" 5/8"
  6. IF 18" < BF < 24" : 3/4" 1"
2. IF 1/4" < BF < 12" : 1/4" 3/16"
3. IF 12 1/2" < BF < 18" : 1/2" 5/8"
4. IF 18" < BF < 24" : 3/4" 1"
5. 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**

1. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, APMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
2. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE WITH A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
3. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLE 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.
4. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. COTS & THERMISTERS SHALL BE USED TO MONITOR TEMPERATURE. INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
5. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCINED TO SUPPORT SUSTAINED TENSILE LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S INSTALLATION CERTIFICATION PROGRAM OR EQUIVALENT IN ACCORDANCE WITH ACI 308-11 8.2.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE REQUIRED AND SHALL BE PERFORMED BY THE ENGINEER OF RECORD.
6. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
  - a. HILTI HIT-RE 500V3 (ESR-3814) OR HILTI HIT-HY 200 (ESR-3187)
  - b. SIMPSON SET-XP (ESR-2508) OR SET-XP (ESR-0208)
  - c. DEWALT PURE 100+ (ESR-2322) OR AC108+ GOLD (ESR-2592-COLD WEATHER).
7. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
  - a. HILTI KWIK BOLT TZ (ESR-1917)
  - b. DEWALT POWER STUD+ S2 (ESR-2922)
  - c. SIMPSON STRONG-BOLT T2 (ESR-2638)
8. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
  - a. SIMPSON TITEN HD (ESR-2713)
  - b. DEWALT SCREW-BOLT T+ (ESR-2526)
  - c. HILTI KWIK HUS-EZ (ESR-3027)
9. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND AN INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
10. IF REINFORCING IS REQUIRED 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 GREATER) FROM REINFORCING. IF THE REINFORCING IS 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.
11. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
12. 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 APMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.

**H. REINFORCING STEEL**

1. REINFORCING BAR STRENGTH REQUIREMENTS:
  - a. ALL REINFORCING BARS, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AND BE ATTACHED TO MAINTAIN EXACT REQUIRED POSITION.
2. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A620 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
3. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
4. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE :
  - a. CAST AGAINST AND PERMANENTLY EXPOSED TO EXTERIOR : ... 3"
  - b. EXPOSED TO EARTH OR WEATHER :
    - i. #8 & SMALLER : ... 1-1/2"
    - ii. #8 & LARGER : ... 1-1/2"
  - c. NOT EXPOSED TO WEATHER OR EARTH :
    - i. SLABS, WALLS, JOISTS, #11 & SMALLER : ... 3/4"
    - ii. BEAMS, COLUMNS, MAIN REINFORCING OR TIES : ... 1-1/2"
5. SLAB ON GRADE :
  1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
6. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPLAPING PER THE REBAR LAP SCHEDULE.
7. 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 OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL, TREATED LUMBER AND BORATE TREATED TREATMENTS) SHALL BE OF #3 HOT-DIP GALVANIZED OR #3 STAINLESS STEEL. STAINLESS STEEL, STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.
8. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
9. 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 DORIES.
10. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318-19R-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.
11. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

**I. STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
  - a. ANSIAISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
  - b. AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
  - c. AISC "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
  - d. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
  - e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
  - f. ANSIAISC 341-10 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
  - a. WIDE FLANGE SHAPES AND WT SHAPES - ASTM A992.
  - b. OTHER SHAPES AND PLATES - ASTM A36 (UNO).
  - c. TUBES (TS) AND HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE B (SQUARE AND RECTANGULAR SHAPES F<sub>y</sub> = 46 KSI) AND ROUND SHAPES F<sub>y</sub> = 42 KSI).
  - d. PIPE COLUMNS - ASTM A-53, GRADE B TYPE E OR S.
  - e. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1.
  - f. 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.
  - g. THREADED ROD - ASTM A-449.
  - h. NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 8,000 PSI.
  - i. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
  - j. ALL 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.
3. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSIAWS D1.1 (LATEST EDITION).
4. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS.
5. 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:
  - a. THICKNESS OF THE THINNEST PART.
  2. WHERE ANY OF THE CONNECTED PARTS ARE THICKER THAN 1/4", WELD IS 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.
  3. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD IS SAME AS THICKNESS OF THE THINNEST PART.
6. 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 FIELD, SHALL BE NOTED ON THE DRAWINGS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
7. BOLTING:
  - a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325.
  - b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION WITH ALL PILES OF THE JOINT IN FIRM CONTACT.
  - c. 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 HOLES.
  - d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES. UNLESS NOTED OTHERWISE.
  - e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOTED, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
8. 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.
9. ALL COLUMNS ADJACENT TO OR EMBEDDED IN WOOD STUDS SHALL HAVE (1) 1/2" DIAMETER X 12" THREADED STEEL ROD SHOP WELDED TO THE END OF THE COLUMN AT 24" O.C. AND EXTENDING EACH WAY INTO THE ADJACENT STUD WALLS. ATTACH ADJACENT WOOD WALL STUDS TO STEEL COLUMN WITH STANDARD NUT AND WASHER AS REQUIRED.
10. PROVIDE FULL DEPTH WED STEIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STEIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. FLANGE WIDTH STEIFFENER THICKNESS WELD THICKNESS  
< 8 1/4" : 1/4" 3/16"  
8 1/4" - 12 1/2" : 1/4" 3/16"  
12 1/2" < BF < 18" : 1/2" 5/8"  
18" < BF < 24" : 3/4" 1"
11. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
12. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
13. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
14. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

**J. TIMBER**

1. WOOD GRADES (UNLESS NOTED OTHERWISE)
  - a. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
    - i. HORIZONTAL MEMBERS, JOISTS & RAFTERS: NO. 2 BEAMS & STRINGERS: NO. 2
    - ii. VERTICAL MEMBERS, POSTS & TRIMMERS: NO. 1
  - b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE-TREATED OR TIMBERSTRAND LSL, TREATED LUMBER WITH EQUIVALENT STRESS GRADER PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM.
  - c. GLU-LAMINATED BEAMS SHALL BE DOUGLAS-FIR ARCHITECTURAL APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V6 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V6.
2. 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	2,800 PSI
LSL :	1,500,000 PSI	2,250 PSI
3. UNLESS NOTED OTHERWISE, ALL BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
4. 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"	240
FLOORS :	23/32"	48/24
ROOFS :	3/4"	32/16
5. INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" W EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.
6. ALL 2332" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.
7. CONNECTIONS, FASTENERS, AND ADHESIVE:
  - a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
8. UNLESS NOTED OTHERWISE, 100 COMMON NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:
  - a. BOUNDARY NAILING "BN" : 6" O.C. AT ALL ROOF AND FLOOR SHEATHING INTO BEARING WALLS, SHEAR WALLS, AND BLOCKING.
  - b. PANEL EDGE NAILING "EN" : 6" O.C. AT ALL OTHER PLYWOOD PANEL EDGES.
  - c. PANEL FIELD NAILING "FN" : 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
  - d. 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.
9. ALL WALL SHEATHING SHALL BE FASTENED TO THE WALL FRAMING PER THE WOOD SHEAR WALL SCHEDULE ON SHEET **S001**.
10. ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

COMMON NAIL SIZE	SHANK DIAMETER	MIN. PENETRATION INTO SUPPORT MEMBER
6d	0.113"	1.25"
8d	0.131"	1.375"
10d	0.148"	1.50"
12d	0.168"	1.62"
11. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE.
12. 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.
13. 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.
14. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS BETWEEN THE SLIP 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". PROVIDE A STANDARD BUTT JOINT WHEN PLATE WASHERS ARE PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/4" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE.
15. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL, TREATED LUMBER AND BORATE TREATED TREATMENTS) SHALL BE OF #3 HOT-DIP GALVANIZED OR #3 STAINLESS STEEL. STAINLESS STEEL, STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.

6. ALL WOOD TRUSSED RAFTERS SHALL BE FABRICATED IN COMPLIANCE WITH THE RESEARCH COMMITTEE RECOMMENDATIONS OF THE ICC FOR THE CONNECTOR PLATES USED. SUBMIT DESIGN CALCULATIONS WITH ENGINEERS SEAL FOR REVIEW WITH SHOP DRAWINGS. PROVIDE CALCULATIONS AND DETAILS FOR ALL TRUSSES TO TRUSS CONNECTIONS INCLUDING CONNECTIONS FOR MULTIPLE NECESSARY TRUSS BRIDGING AND CONNECTION DESIGN OF TRUSS BRIDGING SHALL BE PROVIDED BY THE TRUSS DESIGNER AND SHALL BE INCLUDED IN THE DESIGN CALCULATIONS FOR REVIEW.
7. INSTALLATION OF ALL METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING STANDARDS:
  - a. ANSITP 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSSES".
  - b. TPI DBS "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES".
  - c. UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 200.1.1. CONNECTIONS FOR MULTIPLE PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLD BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.
  - d. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
  - e. REFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1.
  - f. 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.
  - g. THREADED ROD - ASTM A-449.
  - h. NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 8,000 PSI.
  - i. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
  - j. ALL 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.
8. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSIAWS D1.1 (LATEST EDITION).
9. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR



ROOF SHEATHING - SEE STRUCT. NOTES

BOUNDARY NAILING

SIMPSON STRAPS - SEE PLAN

3x10 x REQ'D. BLOCKING BETWEEN TRUSS TOP CHORDS

SIDE-BY-SIDE LAP

BOUNDARY NAILING

PLYWOOD SHEATHING - SEE STRUCT. NOTES

SIMPSON STRAP - SEE PLAN

3x6 x REQ'D. BLOCKING

STACKED LAP

---

The image contains two cross-sectional diagrams of a footing. The left diagram, labeled 'TYP. FOOTING SECTION', shows a rectangular footing with a single horizontal layer of reinforcing bars (EQ) and a vertical layer of reinforcing bars (EQ). It has 3" clear space on the top, bottom, and sides. The right diagram, labeled 'TYP. FOOTING SECTION W/ TOP & BOTTOM REINF.', shows a similar footing but with two horizontal layers of reinforcing bars (EQ) and a vertical layer of reinforcing bars (EQ). It has 3" clear space on the top and bottom, and 2" clear space on the sides. Both diagrams are labeled 'TYP. FOOTING REINFORCING'.

### STANDARD HOOK & BEND SCHEDULE

DETAILING DIMENSIONS

HOOK A

180°

4 d<sub>OR</sub> 2 1/2" MIN

DETAILING DIMENSIONS

180°

4 d<sub>OR</sub> 2 1/2" MIN

---

<p align="center"><b>SPECIAL INSPECTION SCHEDULE</b> <sup>1.2</sup></p> <p align="center">ESTABLISHED PER 2045 IRC SECTION 440 AND CHAPTER 47</p>	
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**GENERAL SPECIAL INSPECTION NOTES :**

1. THE ITEMS MARKED WITH A ● IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL, SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT. ENGINEER, CONTRACTOR, AND BUILDING OFFICE. ANY ITEMS WHICH FAIL TO COMPLY WITH THE REQUIREMENTS OF THE SCHEDULE SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.

2. THE SPECIAL INSPECTION SCHEDULE SHALL BE REVIEWED BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 1702)



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## SCHEDULES

\_\_\_\_\_

# S002

3002



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 N6. 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) OF 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 FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			●	●	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. 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. 6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, 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. 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) * JOINT PREPARATION * DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) * CLEANLINESS (CONDITION OF STEEL SURFACES) * TACKING (TACK WELD QUALITY AND LOCATION) * BACKING TYPE AND FIT (IF APPLICABLE)							CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			●			●
CONFIGURATION AND FINISH OF ACCESS HOLES FIT-UP OF FILLET WELDS * DIMENSIONS (ALIGNMENT, GAPS AT ROOT) * CLEANLINESS (CONDITION OF STEEL SURFACES) * TACKING (TACK WELD QUALITY AND LOCATION)				●	●		PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		●		●		
CHECK WELDING EQUIPMENT				●			INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)		CONTINUOUS	PERIODIC	CONTINUOUS		PERIODIC
<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.							FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			●			●
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC		INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)		CONTINUOUS	PERIODIC	CONTINUOUS		PERIODIC
USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES * PACKAGING * EXPOSURE CONTROL NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS * WIND SPEED WITHIN LIMITS * PRECIPITATION AND TEMPERATURE			●		●		DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		●		●		
WPS FOLLOWED * SETTINGS ON WELDING EQUIPMENT * TRAVEL SPEED * SELECTED WELDING MATERIALS * SHIELDING GAS TYPE / FLOW RATE * PREHEAT APPLIED * INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX) * PROPER POSITION (F, V, H, OH)			●		●	INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT (TABLE N6.1)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC		
WELDING TECHNIQUES * INTERPASS AND FINAL CLEANING * EACH PASS WITHIN PROFILE LIMITATIONS * EACH PASS MEETS QUALITY REQUIREMENTS			●		●	PLACEMENT AND INSTALLATION OF STEEL DECK PLACEMENT AND INSTALLATION OF STEEL STUD ANCHORS DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS		●		●			
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC								
WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA <sup>1</sup> BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 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)													

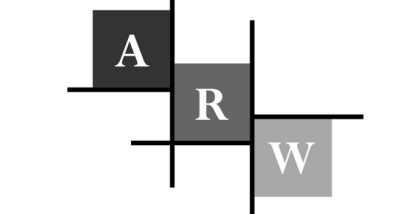
GENERAL STEEL SPECIAL INSPECTION NOTES :

- 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.
- QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QC 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.
- THE FABRICATOR'S QC 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 QC SHALL INSPECT THE ERECTED 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.
- 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.
- THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED 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.
- 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.
- 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. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 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.
- NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.
- 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.



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CONSTRUCTION DOCUMENTS

# Date Revision



NEXUS PROJ. #: 17179  
CHECKED BY: T.D.  
DRAWN BY: Z.T.  
DATE: 06.08.18

SCHEDULES

S003



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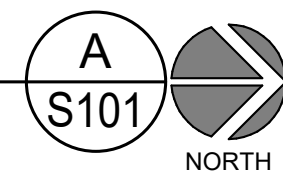
# CONSTRUCTION DOCUMENTS

## FOOTING AND FOUNDATION PLAN

S101



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



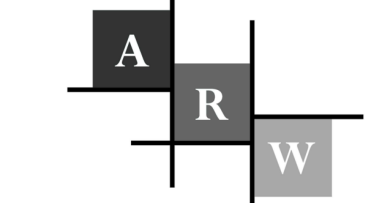




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CONSTRUCTION DOCUMENTS

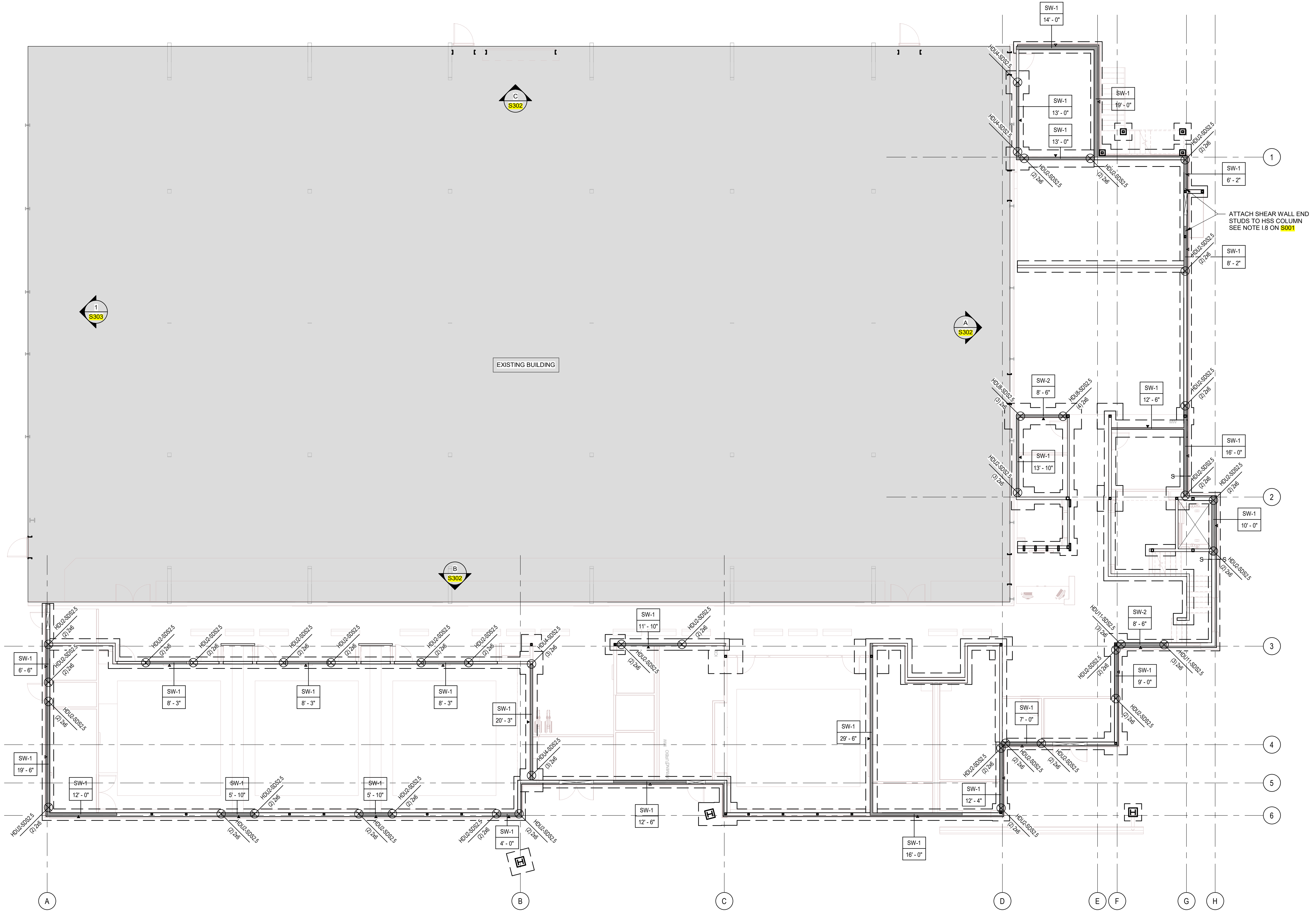
# Date Revision



NEXUS PROJ. #: 17179  
CHECKED BY: Author  
DRAWN BY: Author  
DATE: 06.08.18

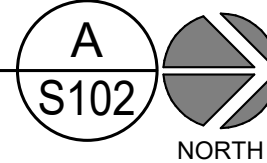
MAIN LEVEL  
SHEAR WALL  
& HOLDOWN  
PLAN

S102



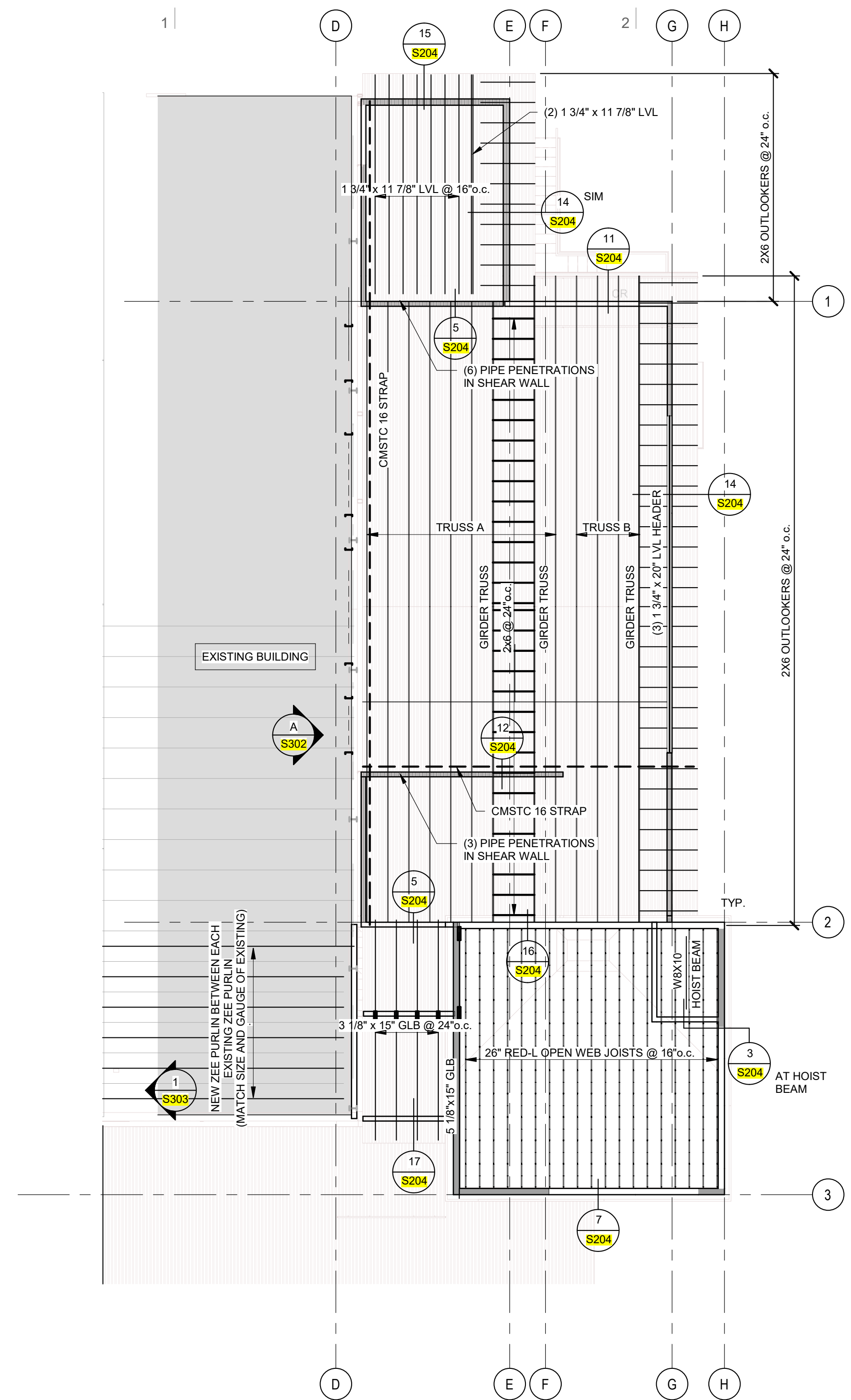
SHEAR WALL & HOLDOWN PLAN

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

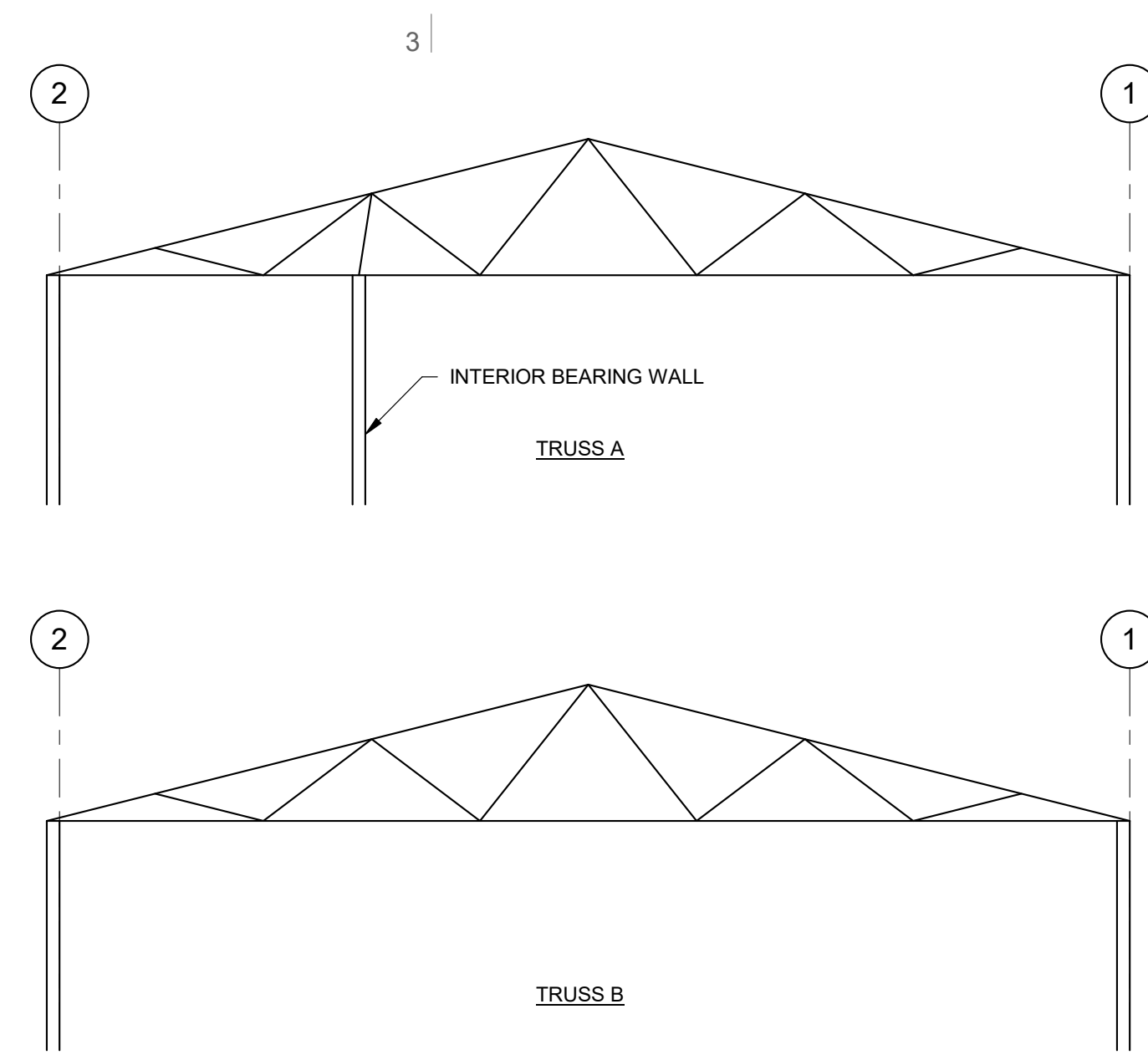


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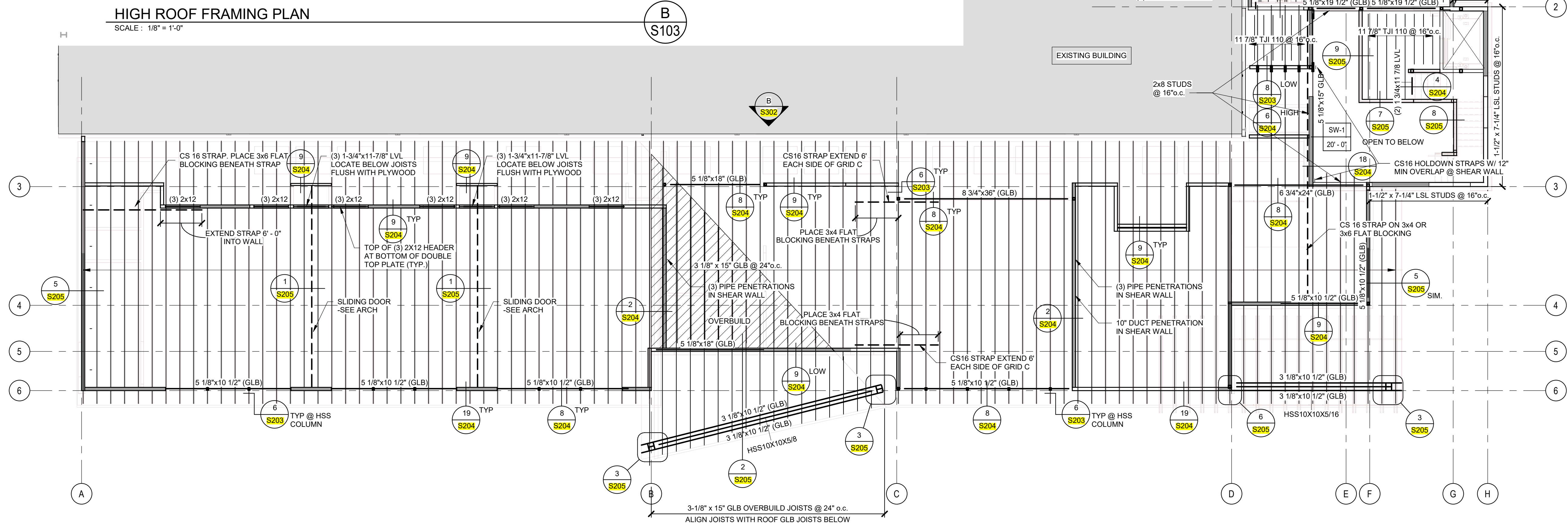


**HIGH ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

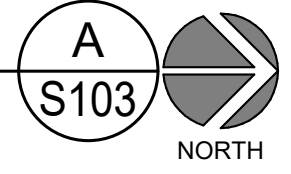


**TRUSS LOAD CRITERIA:**  
TOP CHORD  
DL = 10 PSF  
SL = 97 PSF  
BOTTOM CHORD  
DL = 5 PSF

- ROOF FRAMING NOTES:**
- SEE SHEET S100 FOR GENERAL STRUCTURAL NOTES.
  - GENERAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT WEIGHTS, DIMENSIONS, AND LOCATIONS WITH MECHANICAL AND REFRIGERATION CONTRACTORS PRIOR TO ORDERING/FABRICATING JOISTS.
  - ###/###/### DENOTES APPLIED TOTAL AND LIVE UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT OF JOIST, RESPECTIVELY.
  - JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR ADDITIONAL LOADS INDICATED.
  - SNOW DRIFT LOADS INDICATED ON FRAMING PLANS SHALL BE APPLIED IN ADDITION TO UNIFORMLY DISTRIBUTED LOADS INDICATED PER NOTE 3.
  - PROVIDE ADDED HORIZONTAL AND VERTICAL JOISTS LOADS WHERE INDICATED ON PLAN OR DETAILS.
  - JOISTS AND GIRDERS SHALL BE DESIGNED FOR 15 PSF NET WIND UPLIFT.
  - SEE ROOF DECK SCHEDULE FOR REQUIRED DECK AND ATTACHMENTS.
  - SEE SHEET S402 FOR OPENINGS IN ROOF DECK. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
  - CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND DECK ATTACHMENTS ARE COMPLETE.
  - CONCENTRATED LOADS FROM EQUIPMENT, PIPING, ETC., SHALL NOT BE HUNG FROM JOISTS EXCEPT AT PANEL POINTS AND AS APPROVED BY THE ENGINEER.
  - JOIST BRIDGING DESIGN AND LOCATION BY JOIST MANUFACTURER.
  - ANY CONCENTRATED LOAD ON JOIST CHORDS (INCLUDING FRAMING ANGLES) NOT LOCATED WITHIN 6" OF A PANEL POINT REQUIRE (2) 1" x 2" x 3/4" FROM THE POINT LOAD TO THE NEAREST OPPOSITE CHORD PANEL POINT (CONTRACTOR SUPPLIED AND INSTALLED).
  - ANY ROOF SUPPORTED PIPING 6" OR LARGER RUNNING PARALLEL TO JOIST SHALL BE SUPPORTED BY TWO OR MORE JOISTS.



**LOW ROOF FRAMING & LEVEL 2 FLOOR PLANS**  
SCALE: 1/8" = 1'-0"

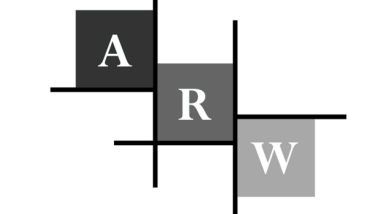


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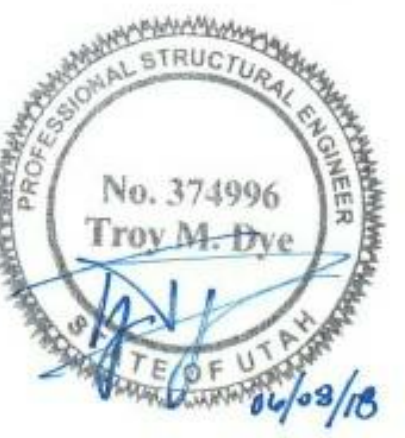
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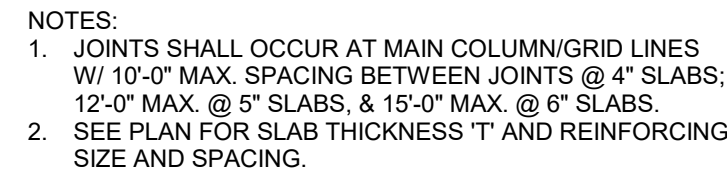


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DRAWN BY: Z.T.  
DATE: 06.08.18

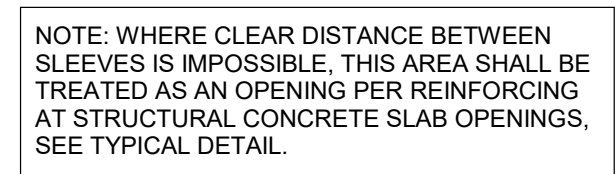
**LEVEL 2  
FLOOR &  
ROOF  
FRAMING  
PLANS**

**S103**

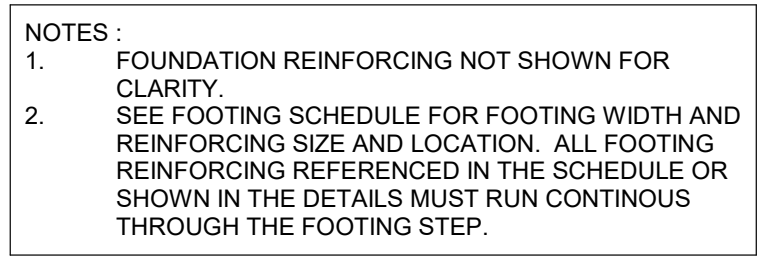




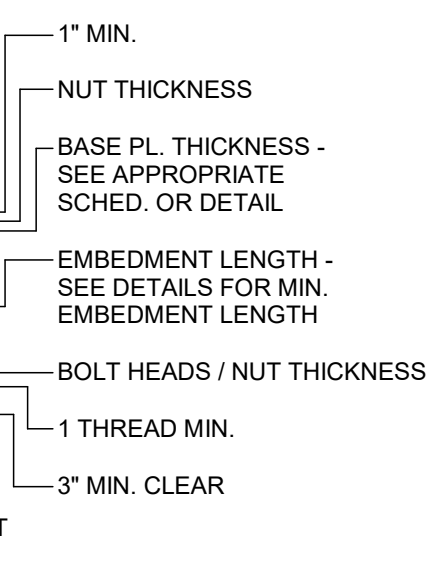
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SCALE : NONE



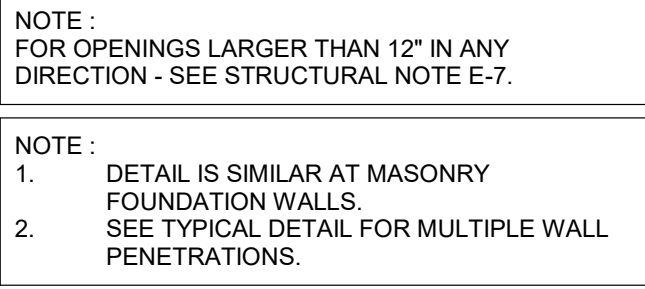
### PIPING/CONDUIT IN SLAB OR WALL



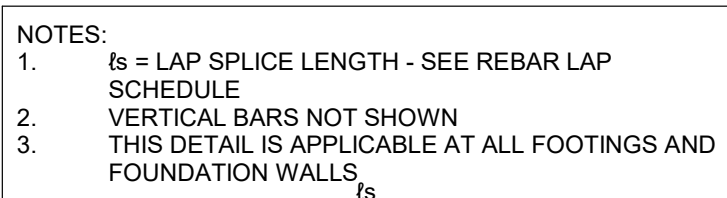
3  
S201



4  
S201



5  
S201



6  
6201

FACE OF COLUMN / BEAM WEB

1 1/2"

1/2"

Leh

ev

5' TYP.

ev

SHEAR PL. - SEE SCHEDULE

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

W BEAM - SEE PLAN

1'-1'

SEE SCHED.

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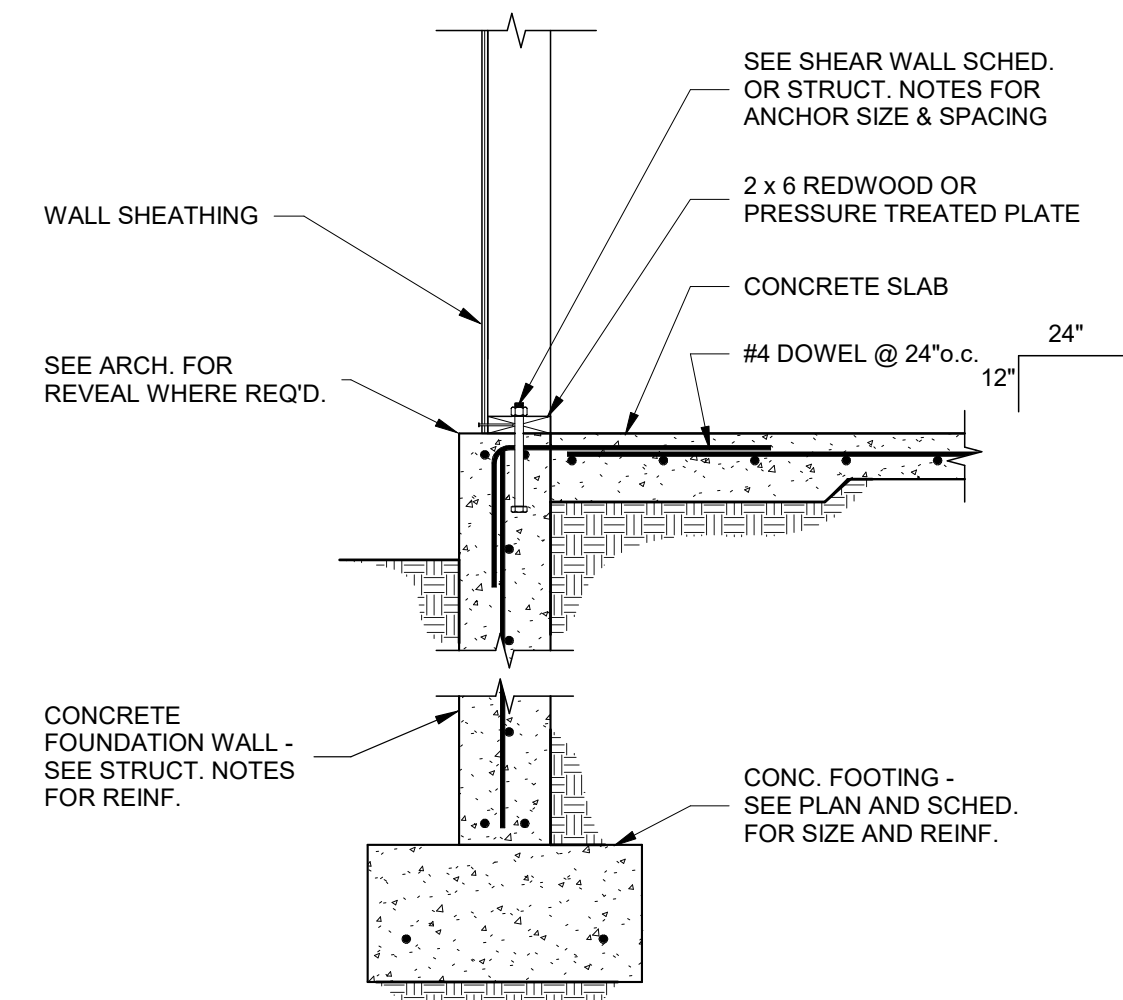
A

B

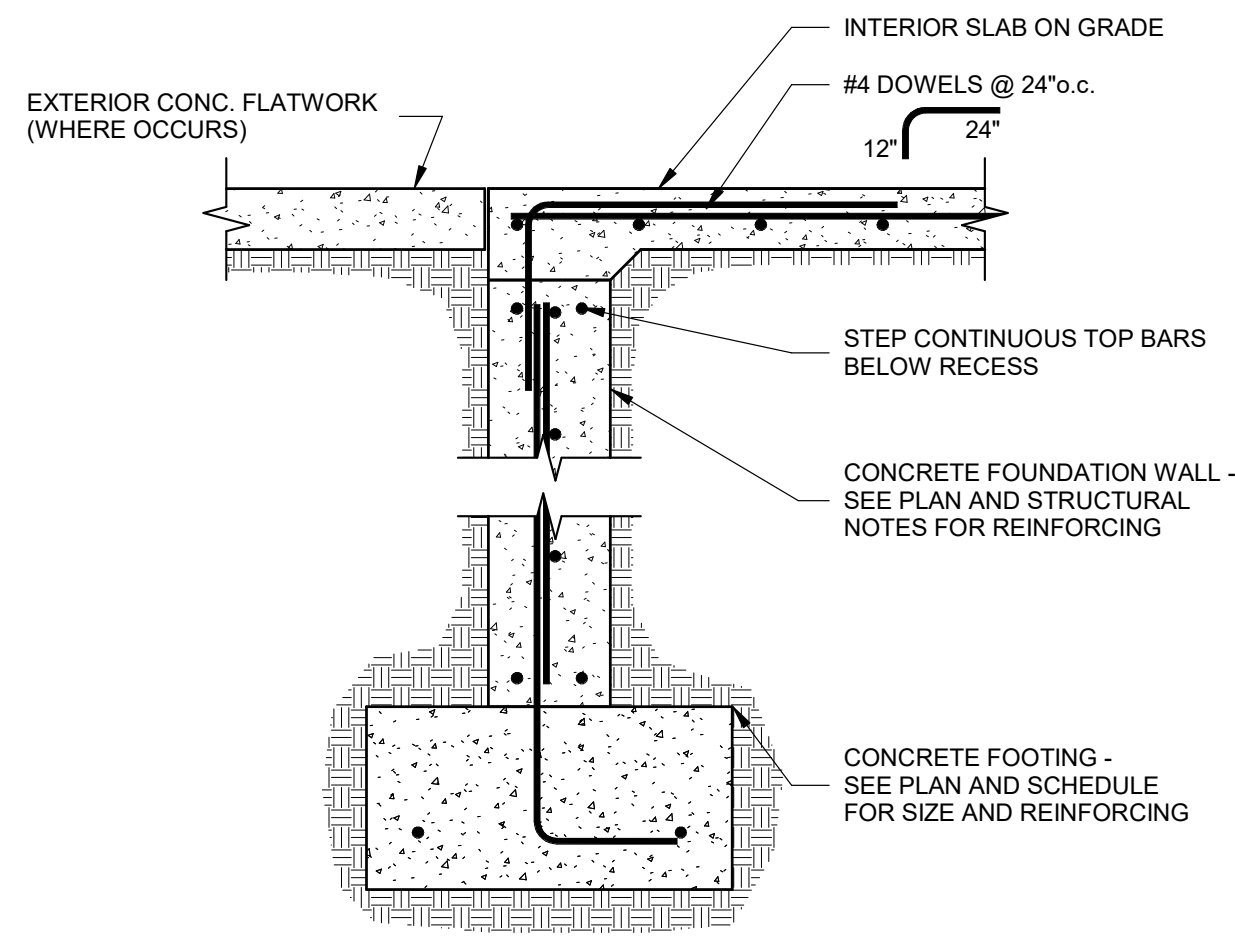
C

D

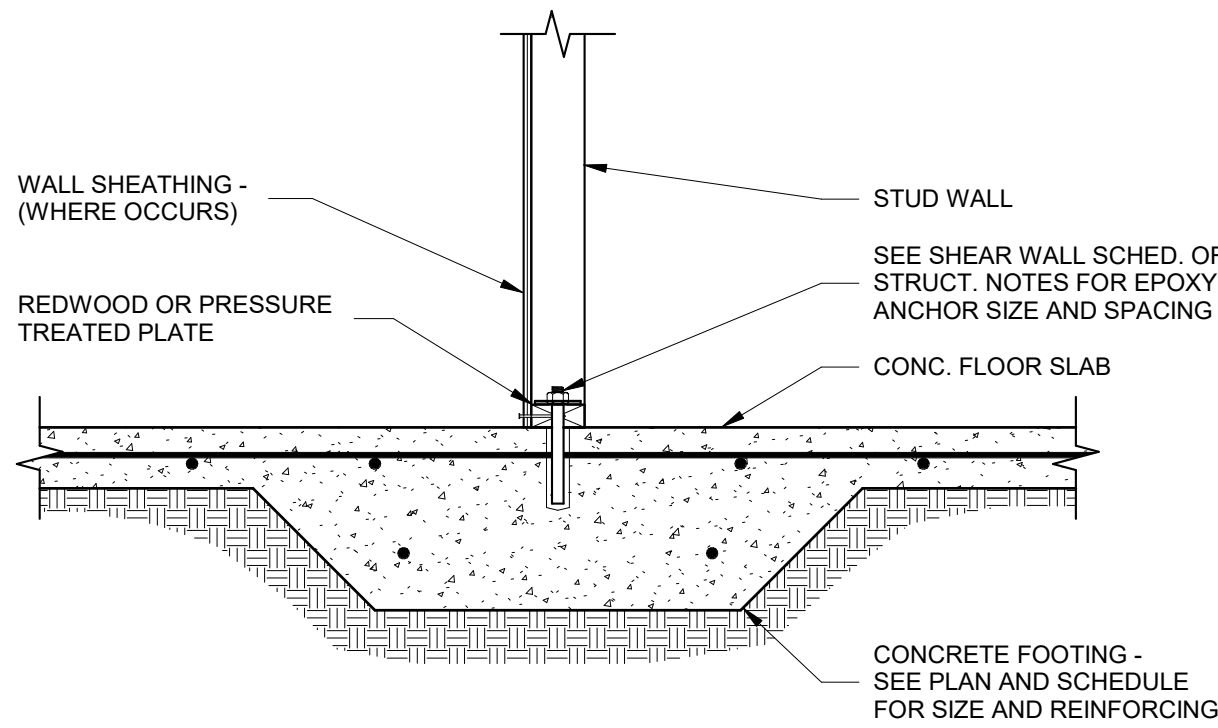
E



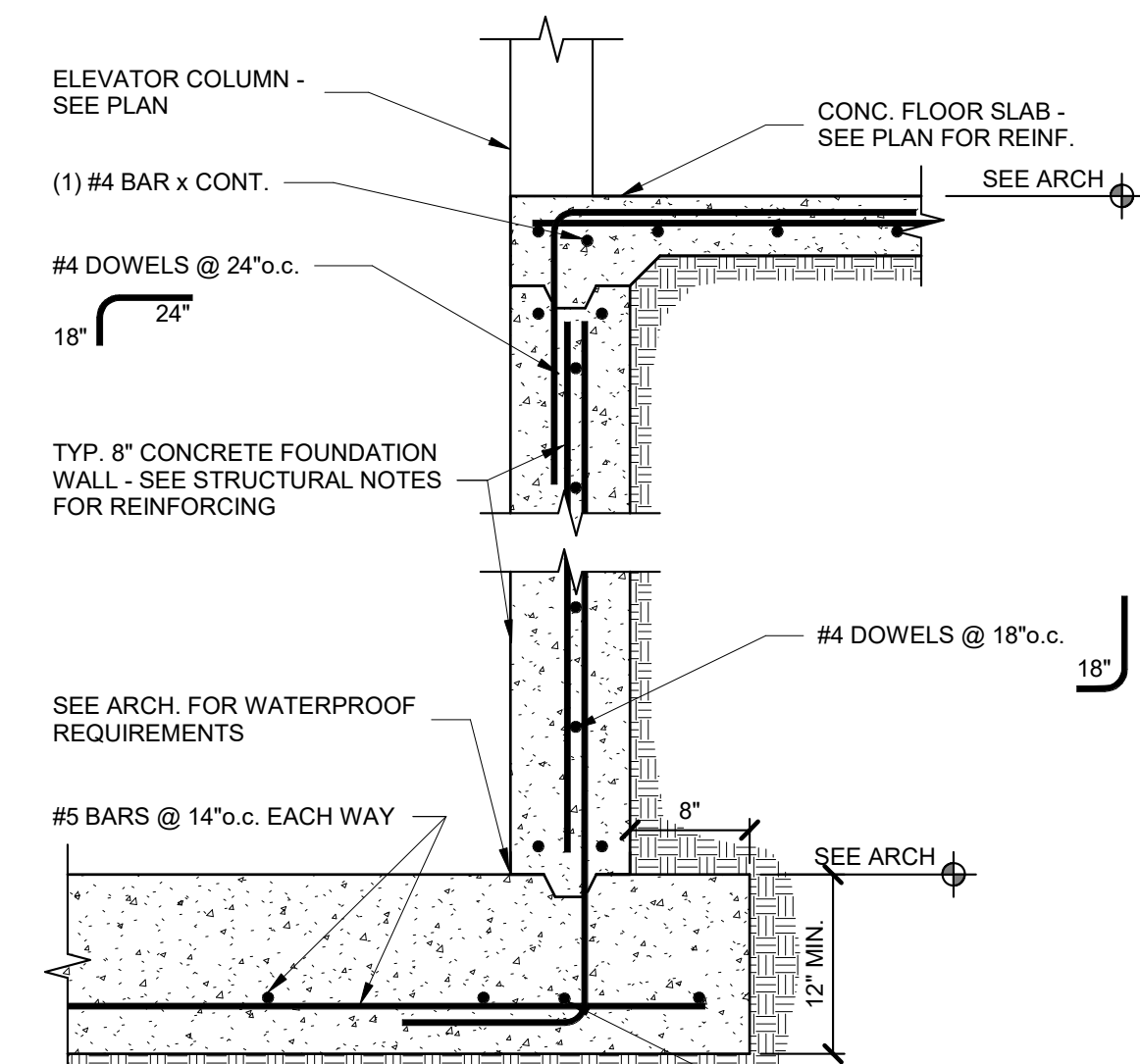
FOOTING SECTION @ TIMBER WALL DETAIL  
SCALE : NONE



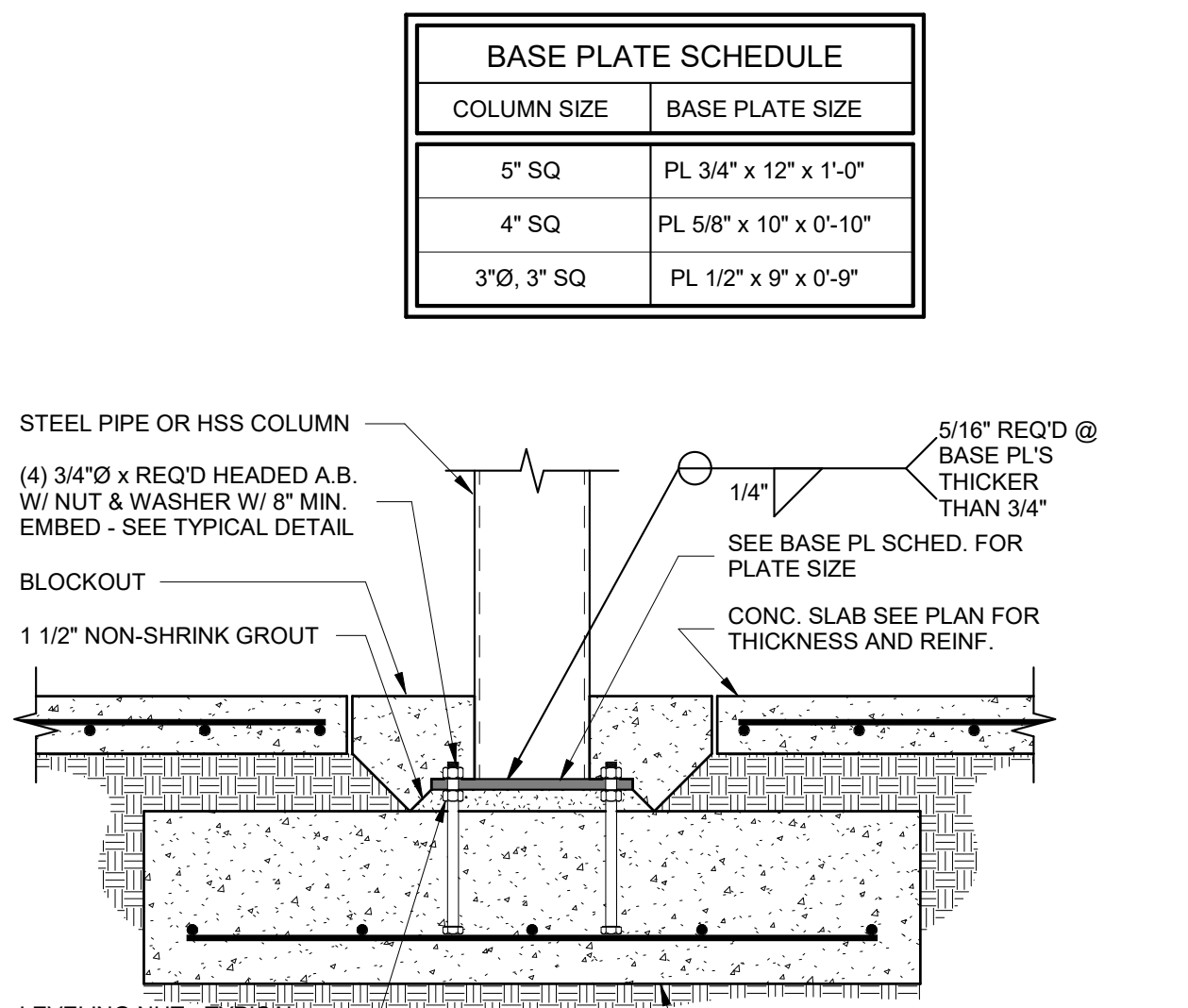
CONCRETE FOUNDATION @ OPENING  
SCALE : NONE



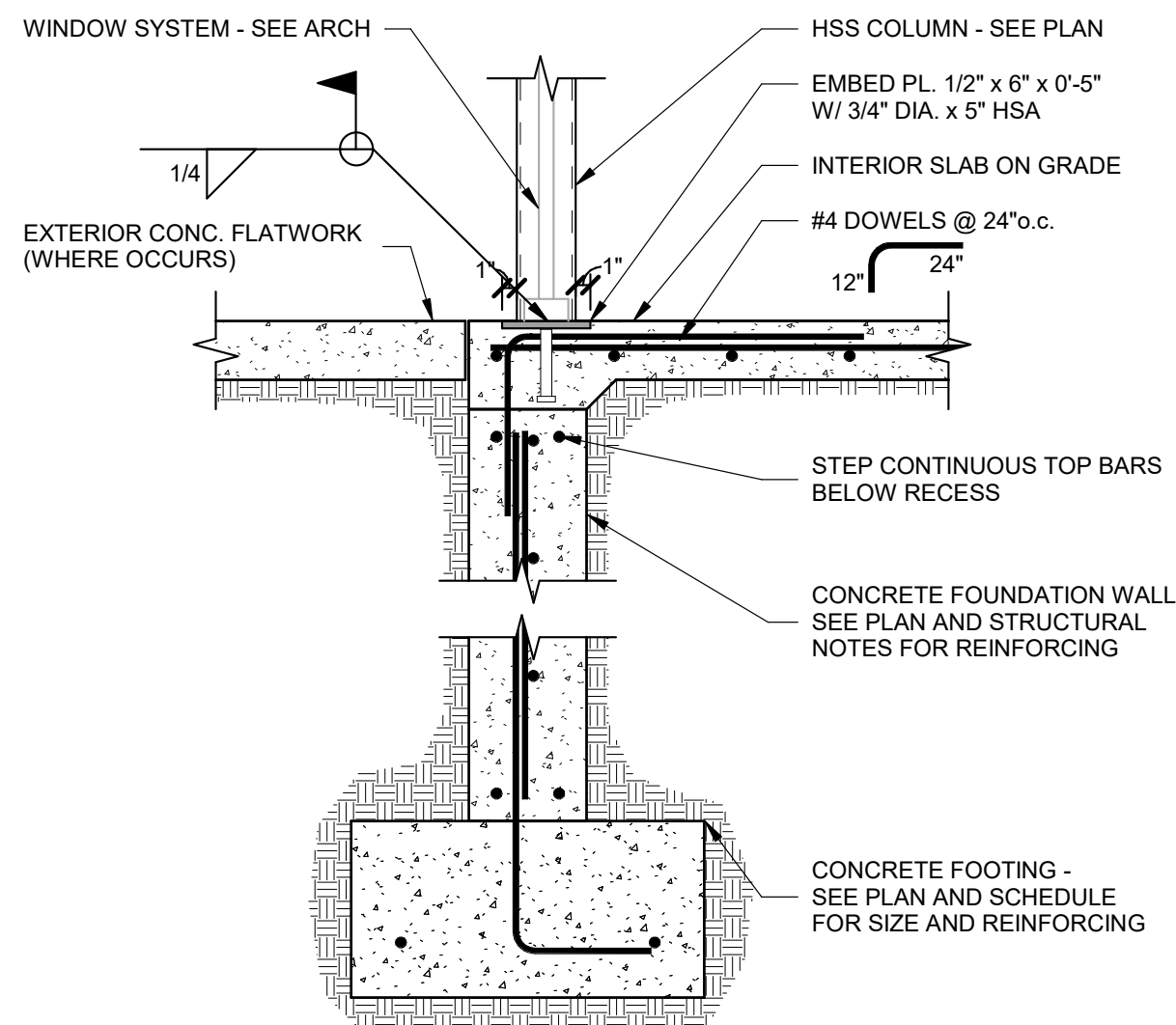
STUD WALL ON THICKENED SLAB  
SCALE : NONE



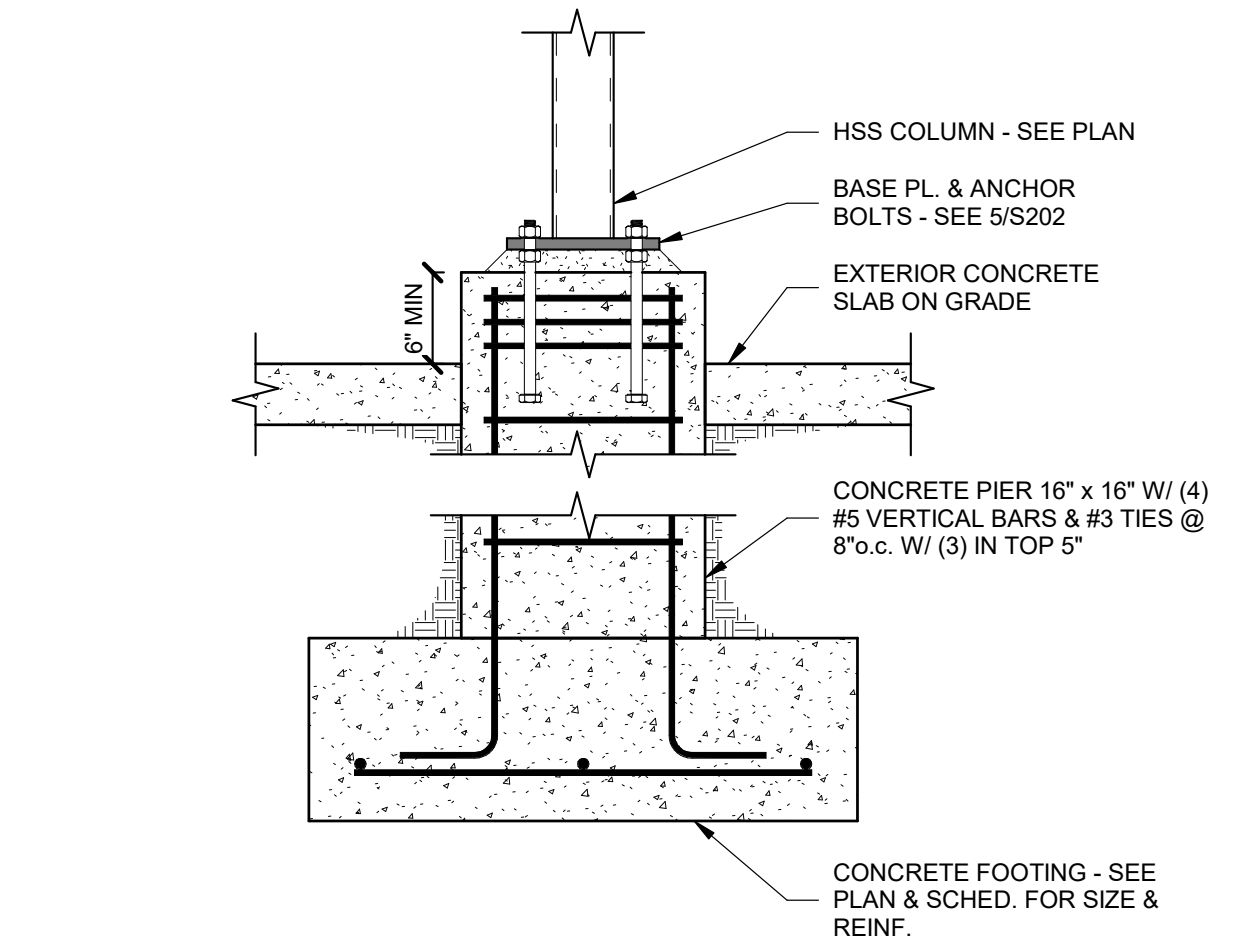
SECTION @ ELEVATOR PIT  
SCALE : NONE



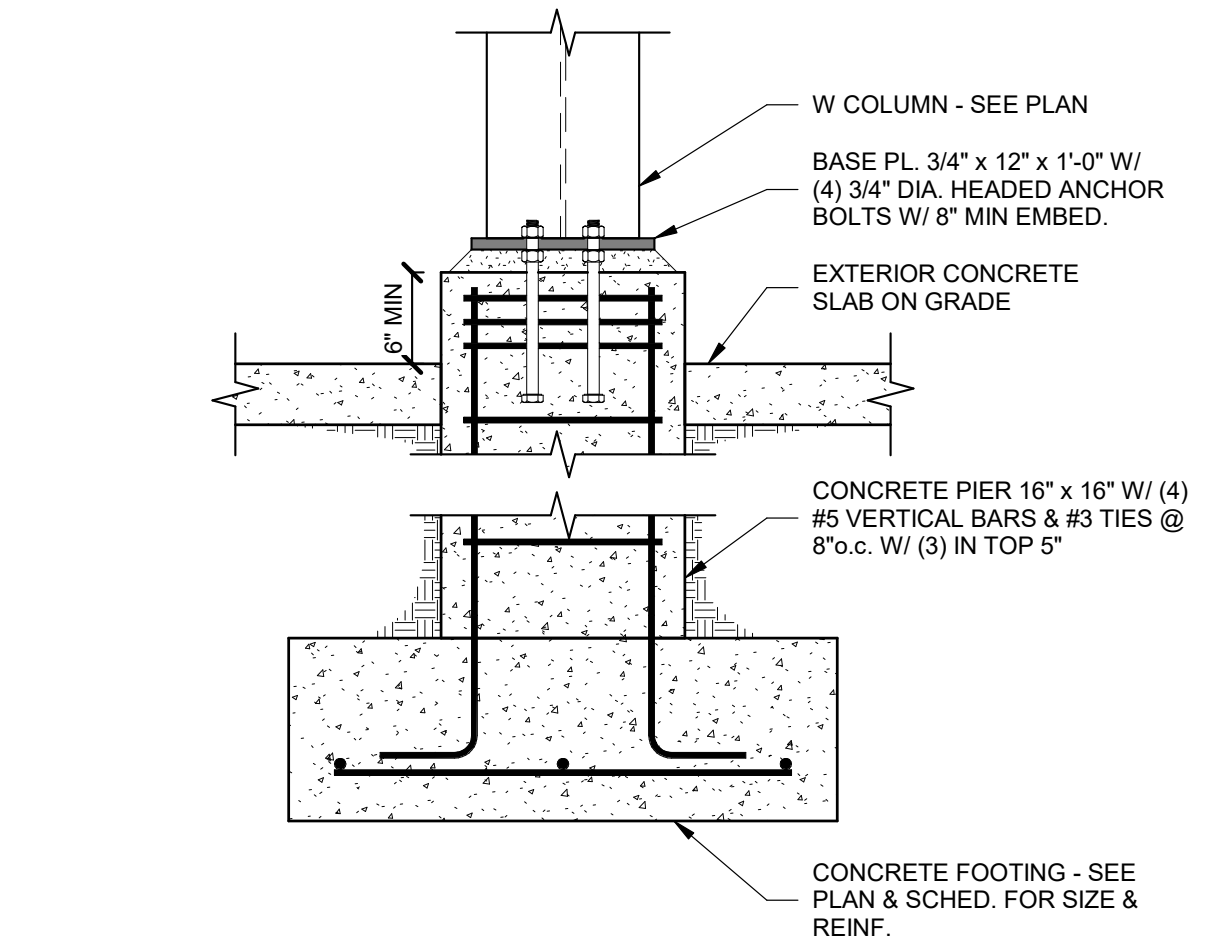
COLUMN TO SPOT FOOTING  
SCALE : NONE



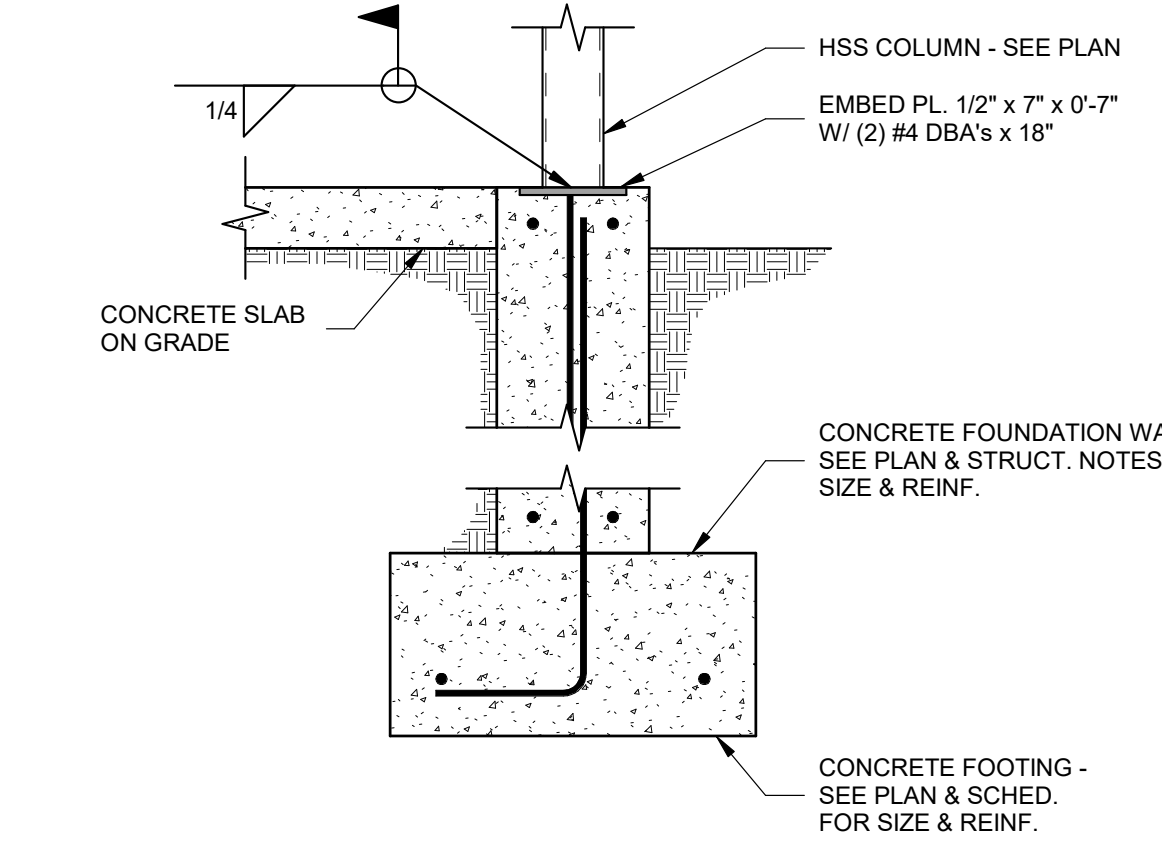
CONCRETE FOUNDATION @ WINDOW SYSTEM  
SCALE : NONE



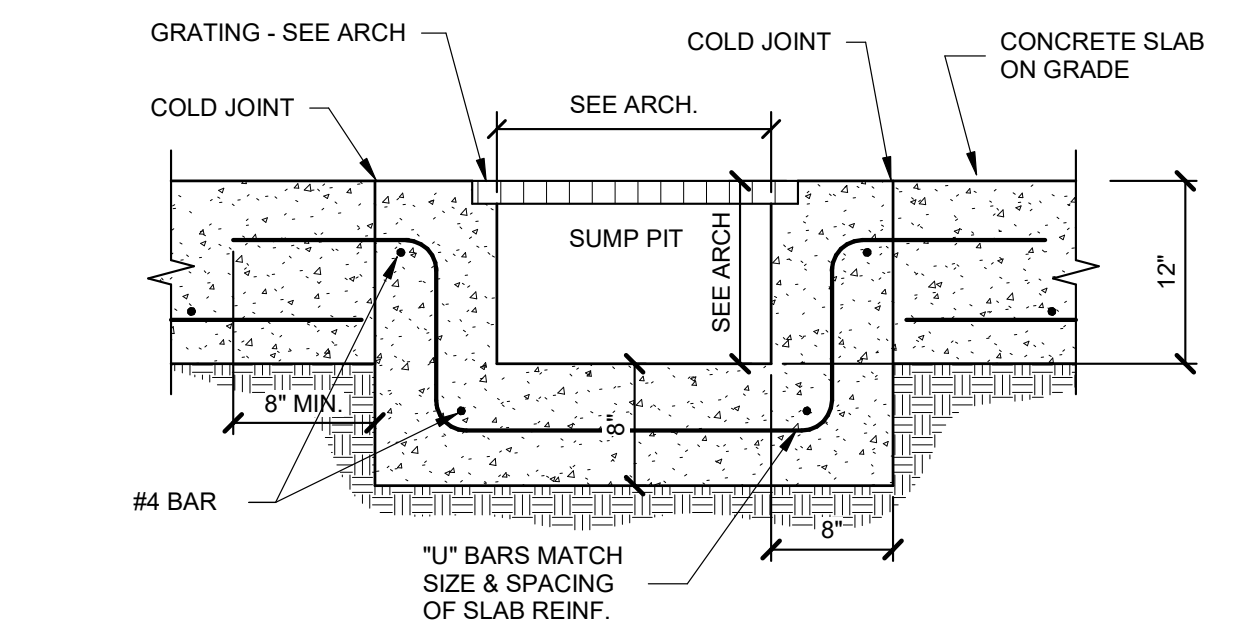
DETAIL  
SCALE : NONE



DETAIL  
SCALE : NONE



DETAIL  
SCALE : NONE



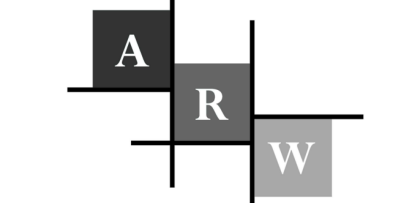
DETAIL  
SCALE : NONE

BASE PLATE SCHEDULE	
COLUMN SIZE	BASE PLATE SIZE
5" SQ	PL 3/4" x 12" x 1'-0"
4" SQ	PL 5/8" x 10" x 0'-10"
3"x3" SQ	PL 1/2" x 8" x 0'-6"



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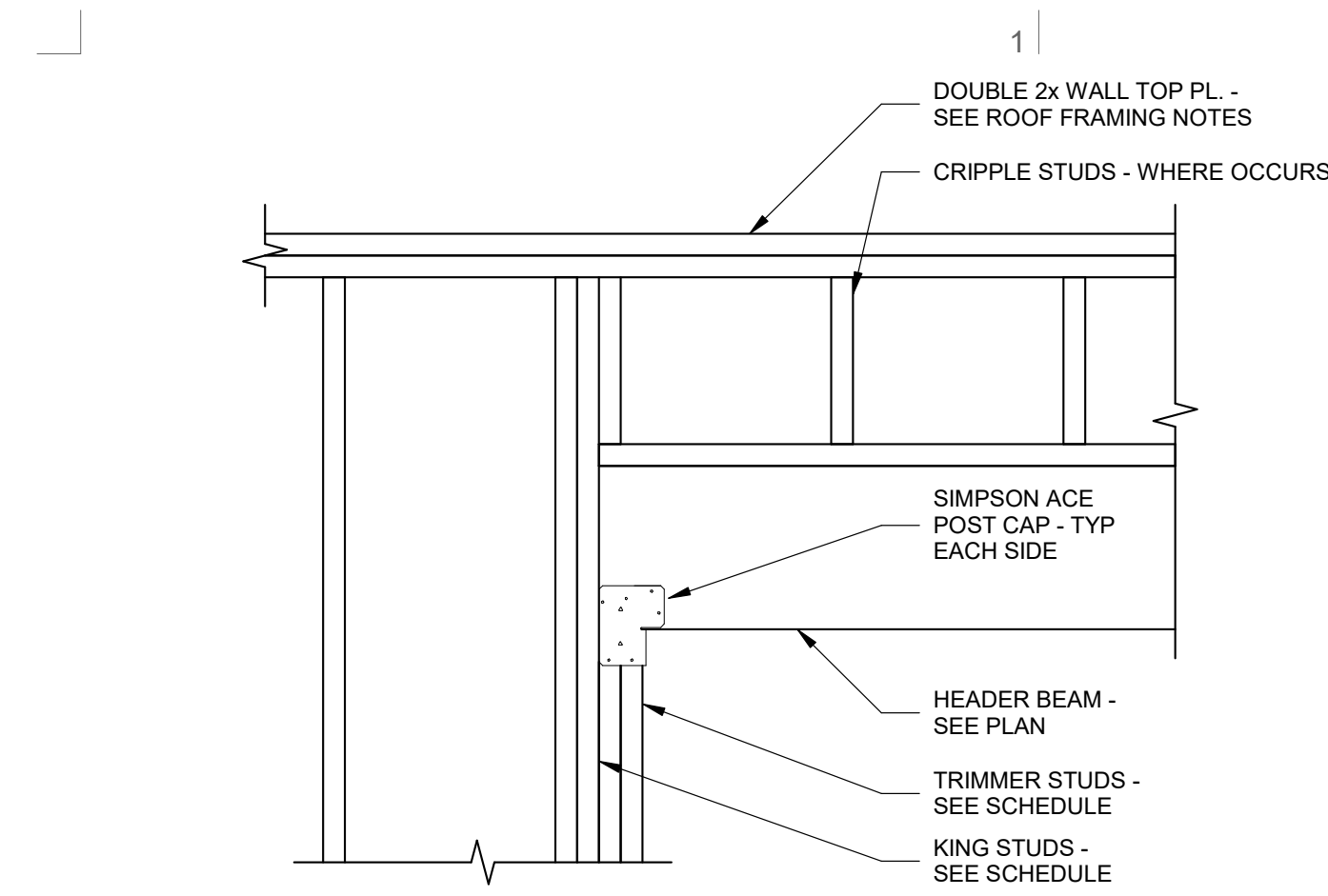


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DATE: 06.08.18

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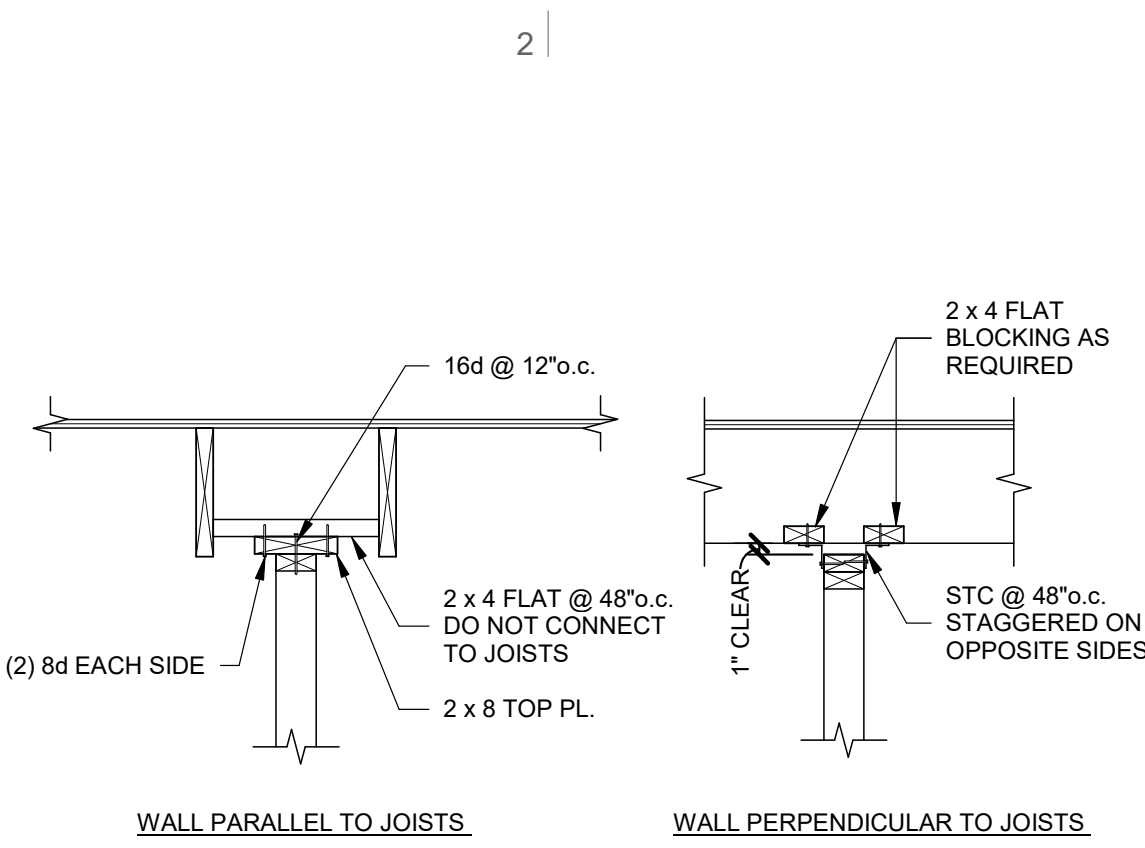
S202



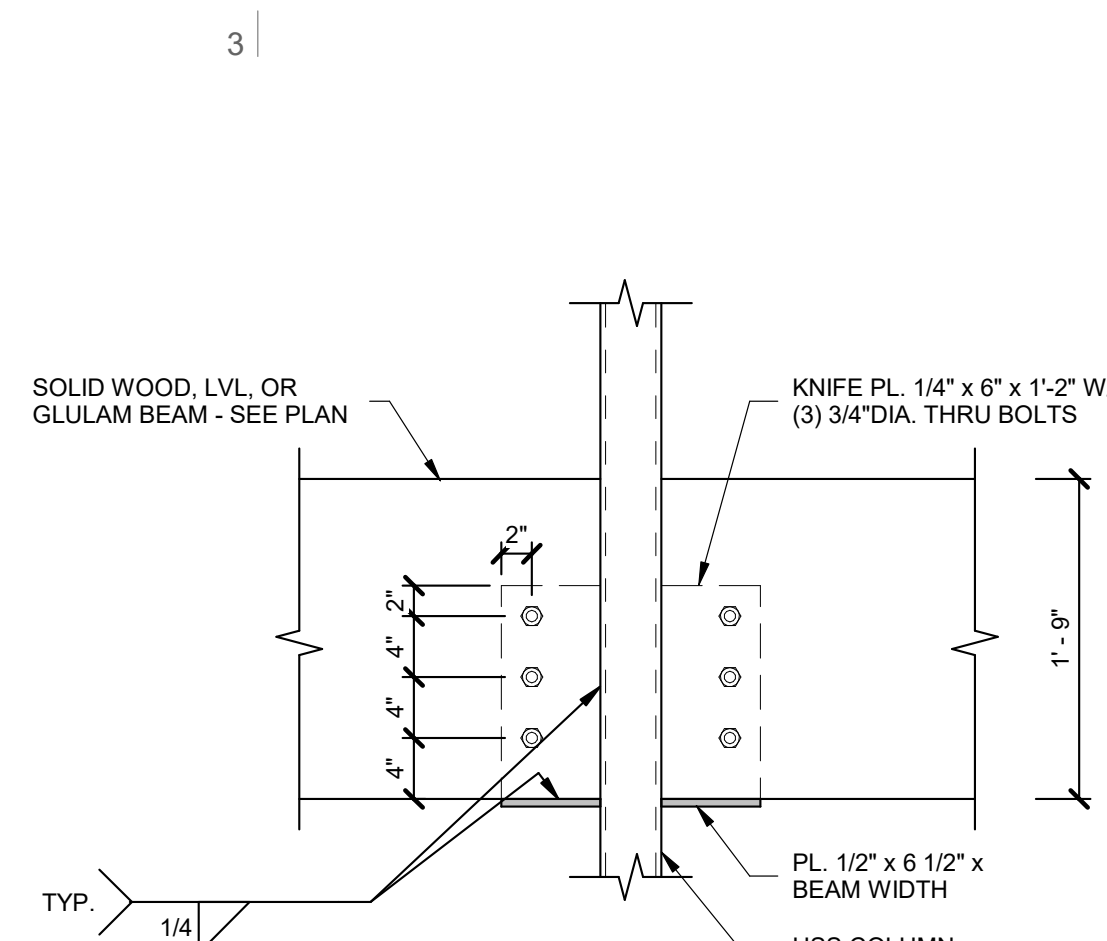


OPENING SIZE	KING STUDS	TRIMMER STUDS
UP TO 6'-0"	(1) 2x6	(2) 2x6
6'-1" TO 10'-0"	(2) 2x6	(3) 2x6

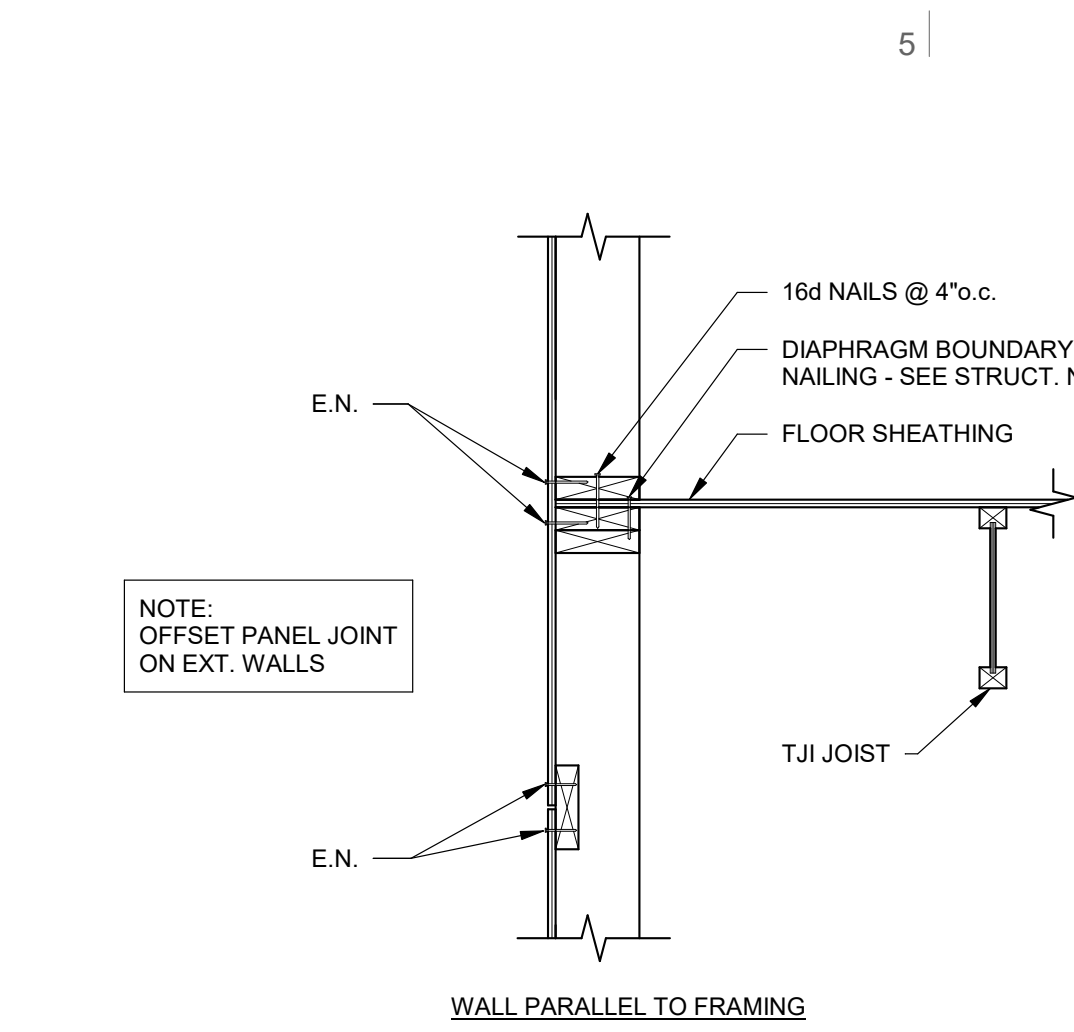
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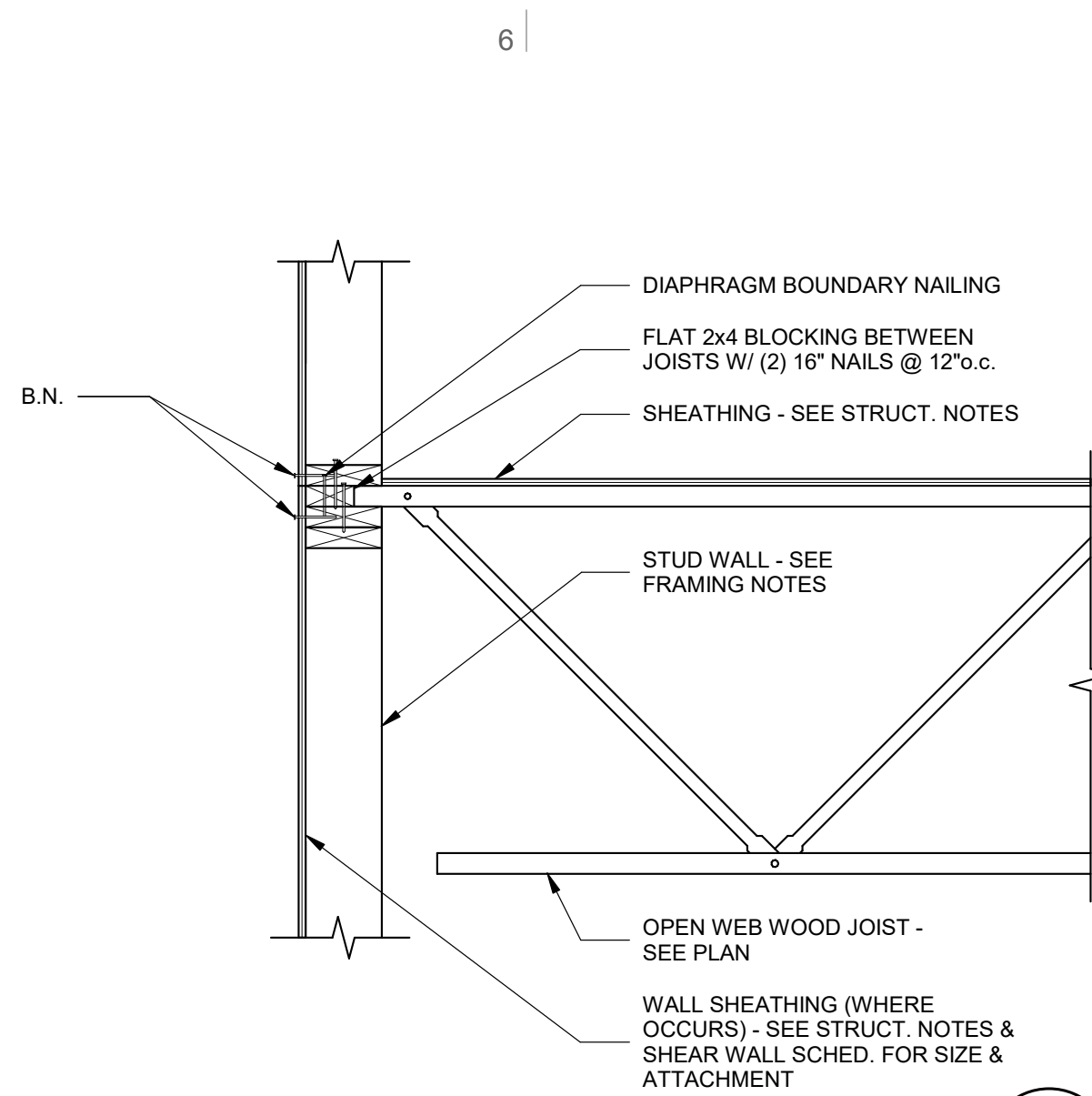
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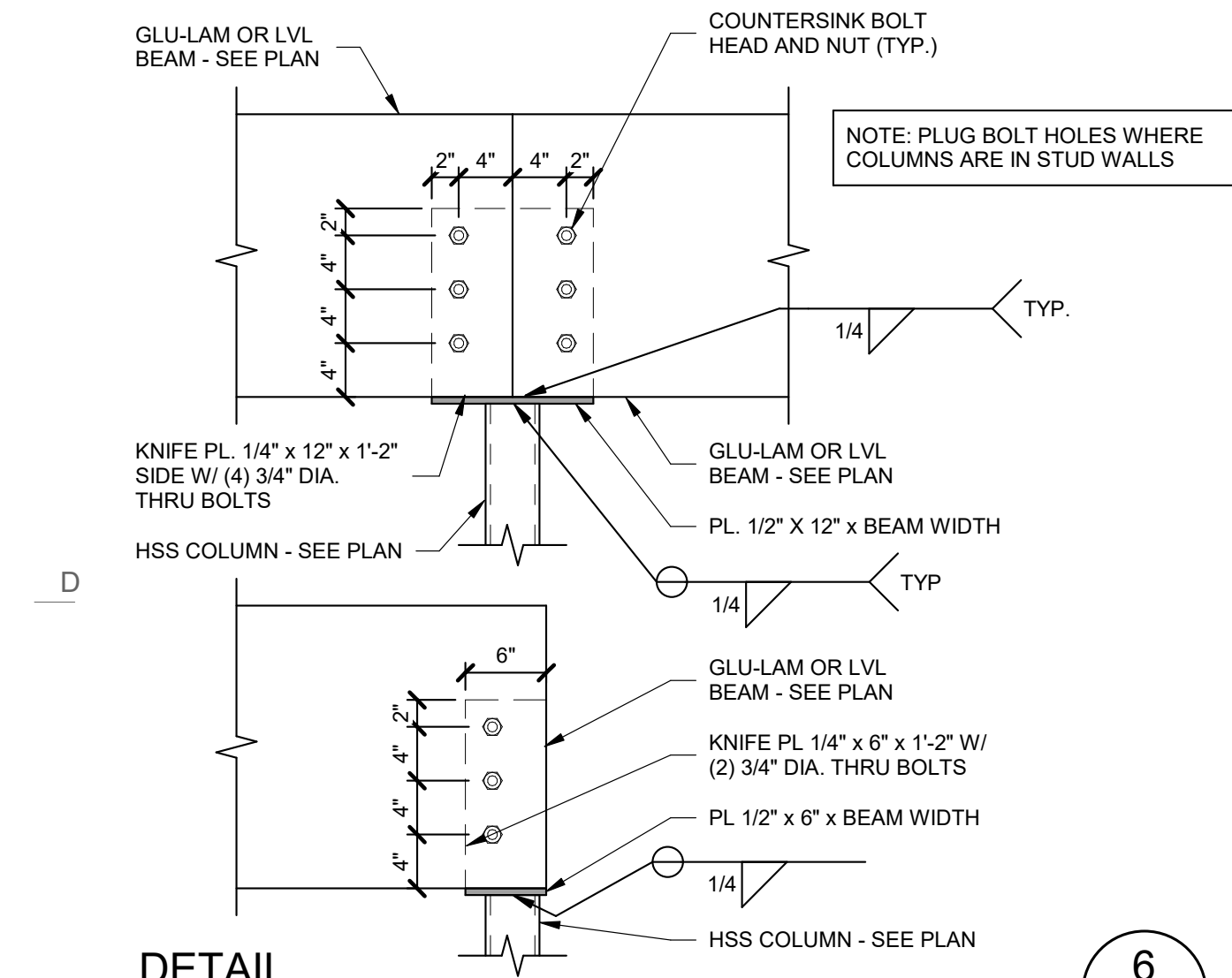
BEAMS INTO HSS COLUMN  
SCALE : NONE



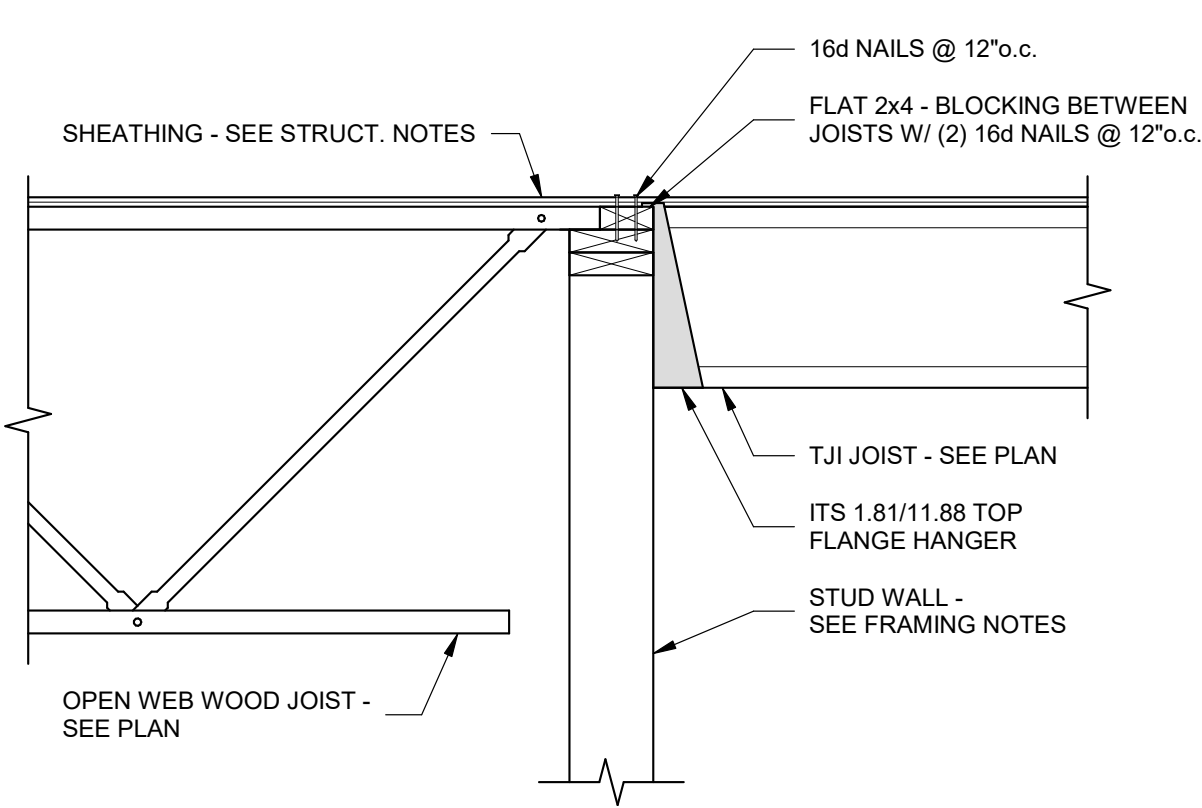
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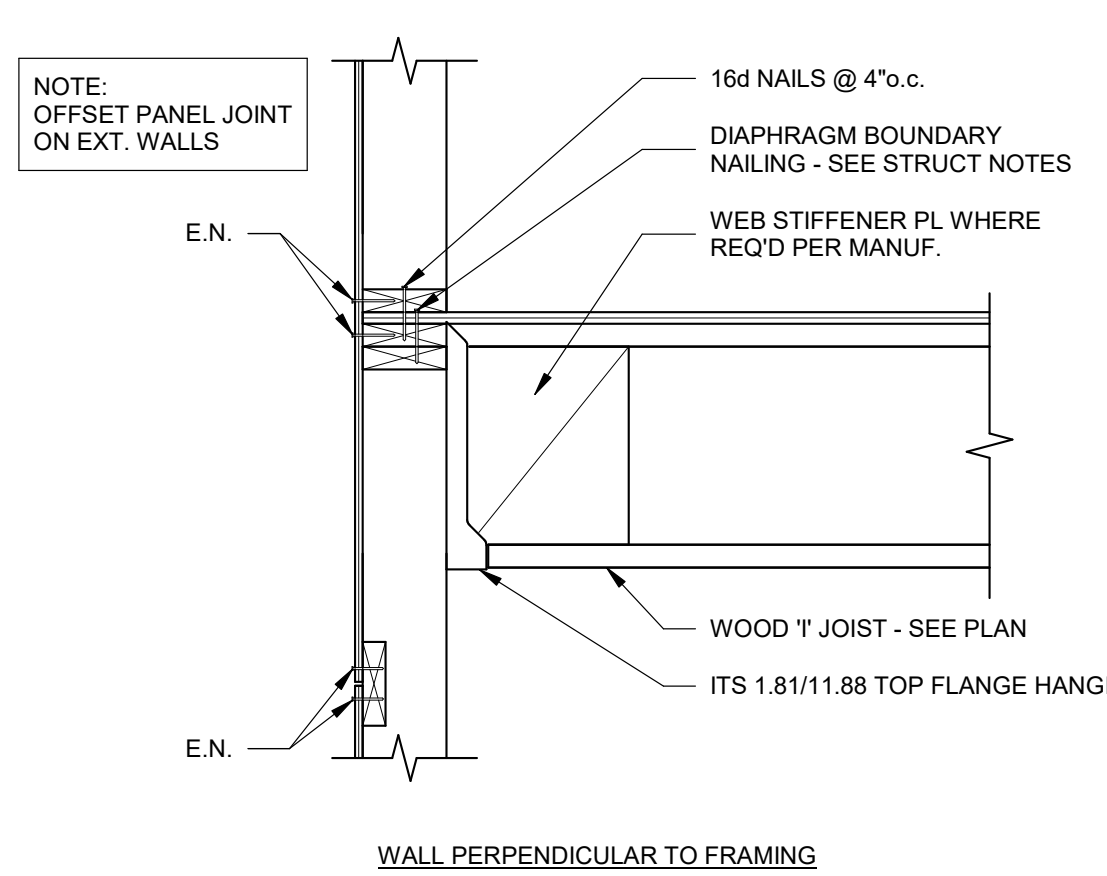
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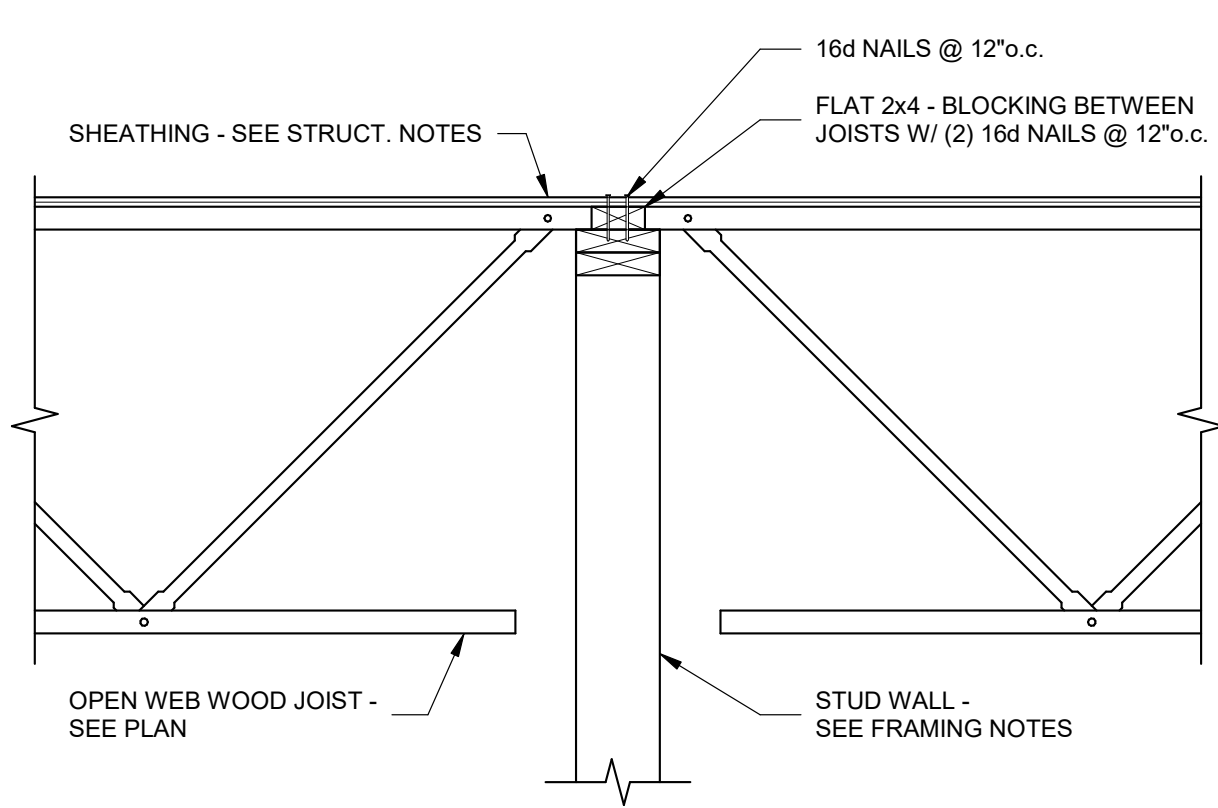
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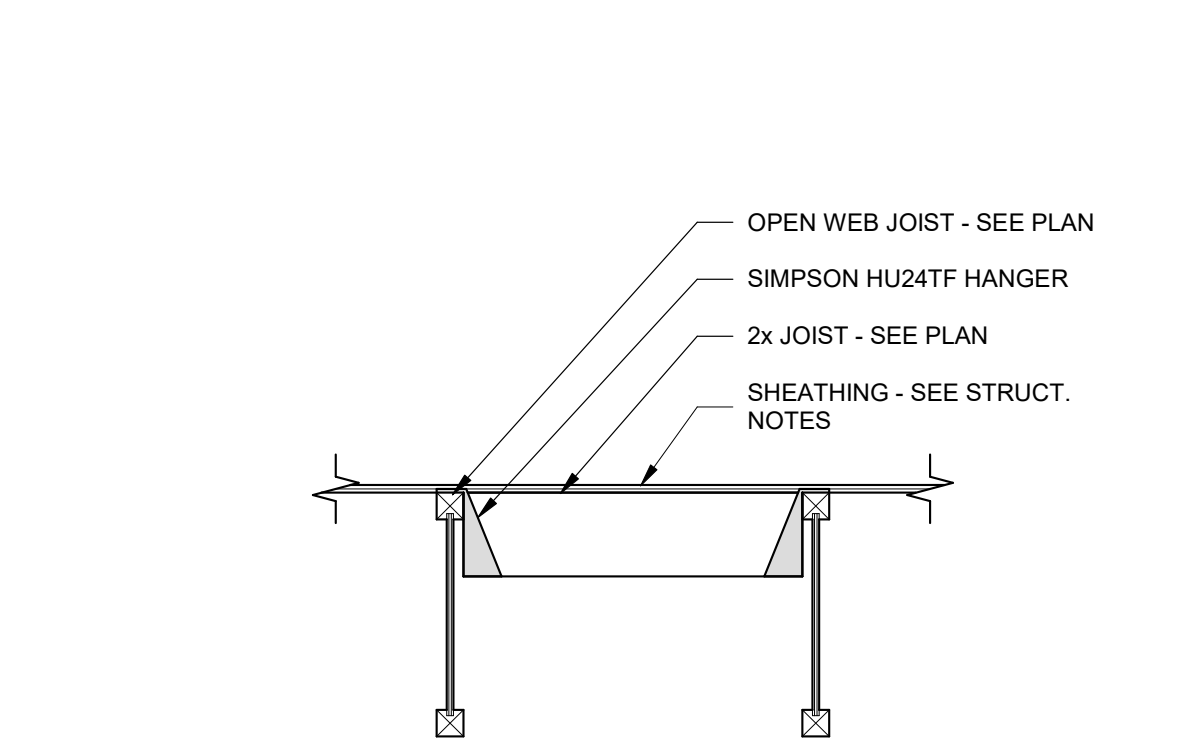
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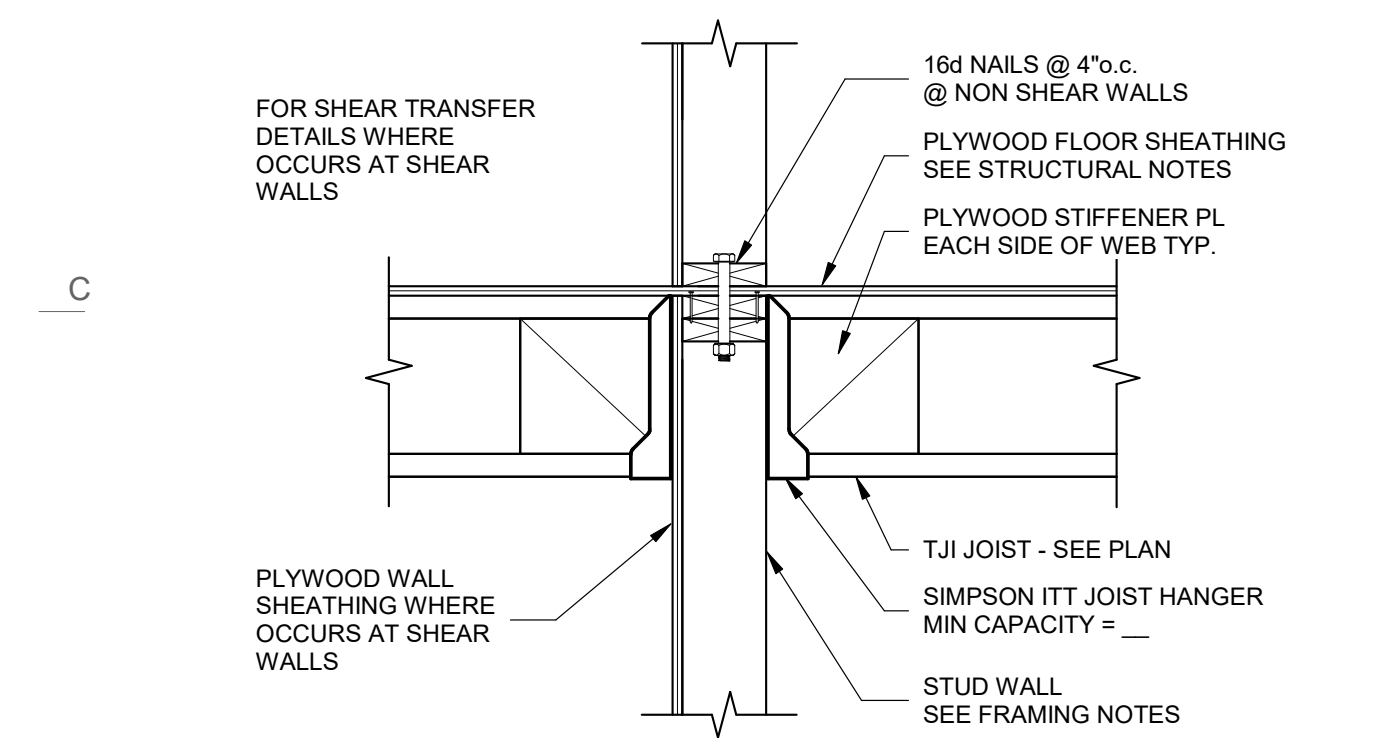
DETAIL  
SCALE : NONE



DETAIL  
SCALE : NONE



DETAIL  
SCALE : NONE



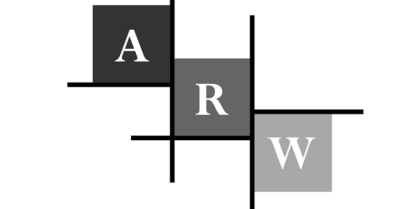
WALL PERPENDICULAR TO TJI  
SCALE : NONE

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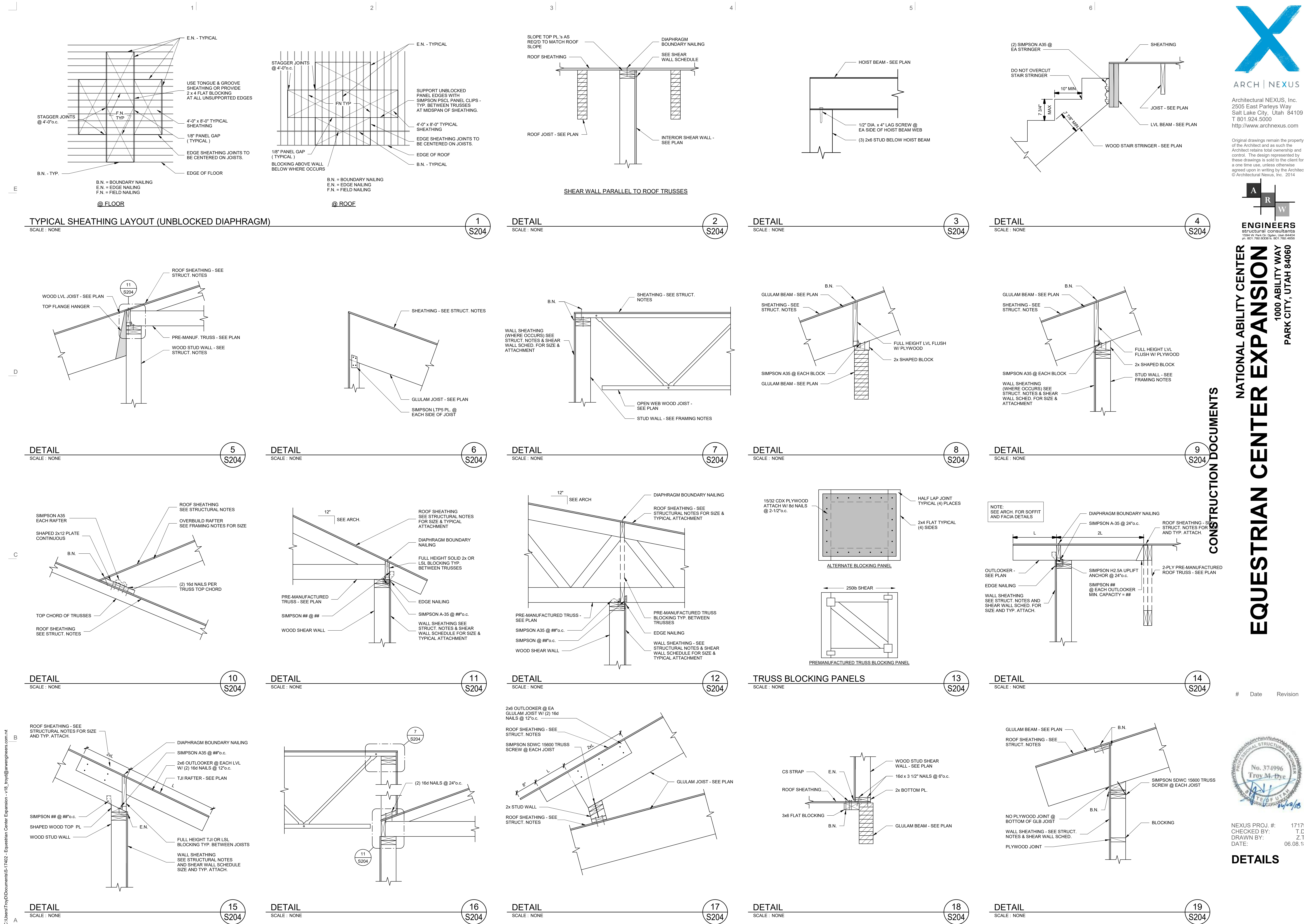


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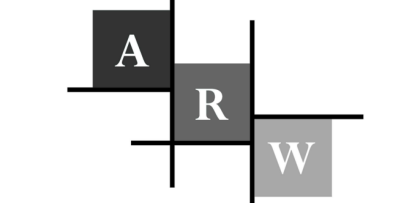
S203





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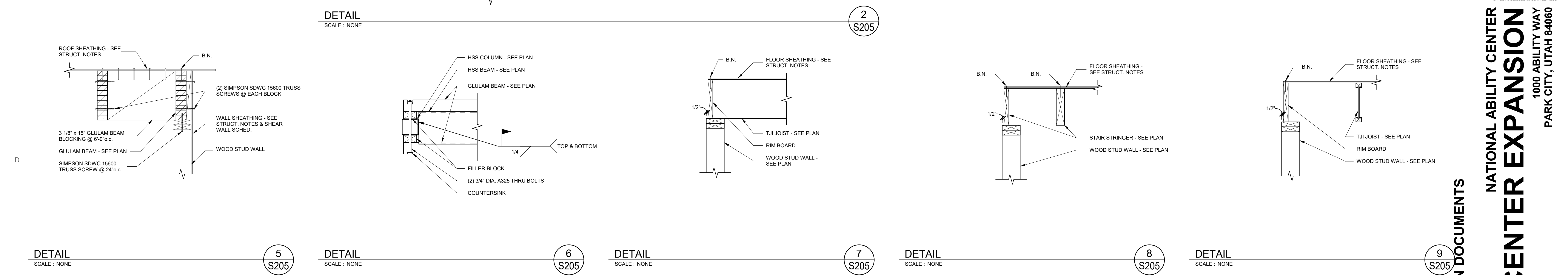
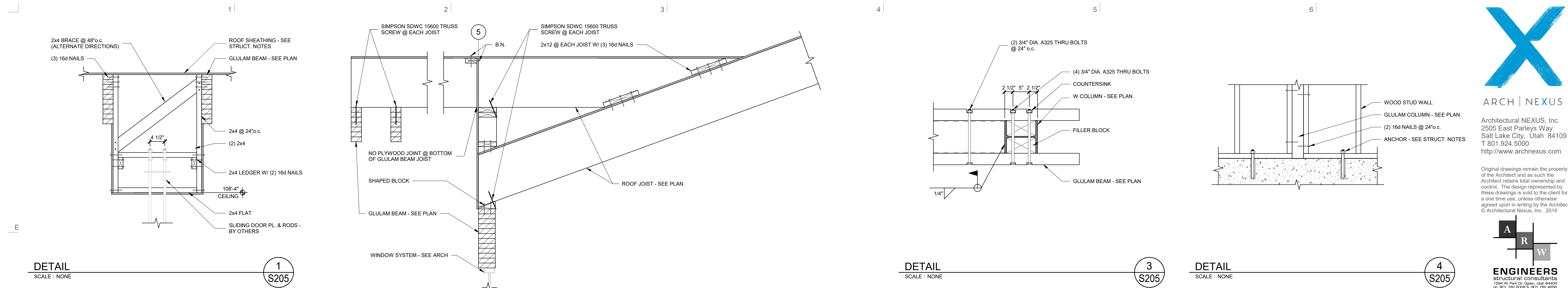
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DETAILS

S204



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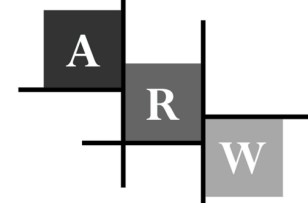
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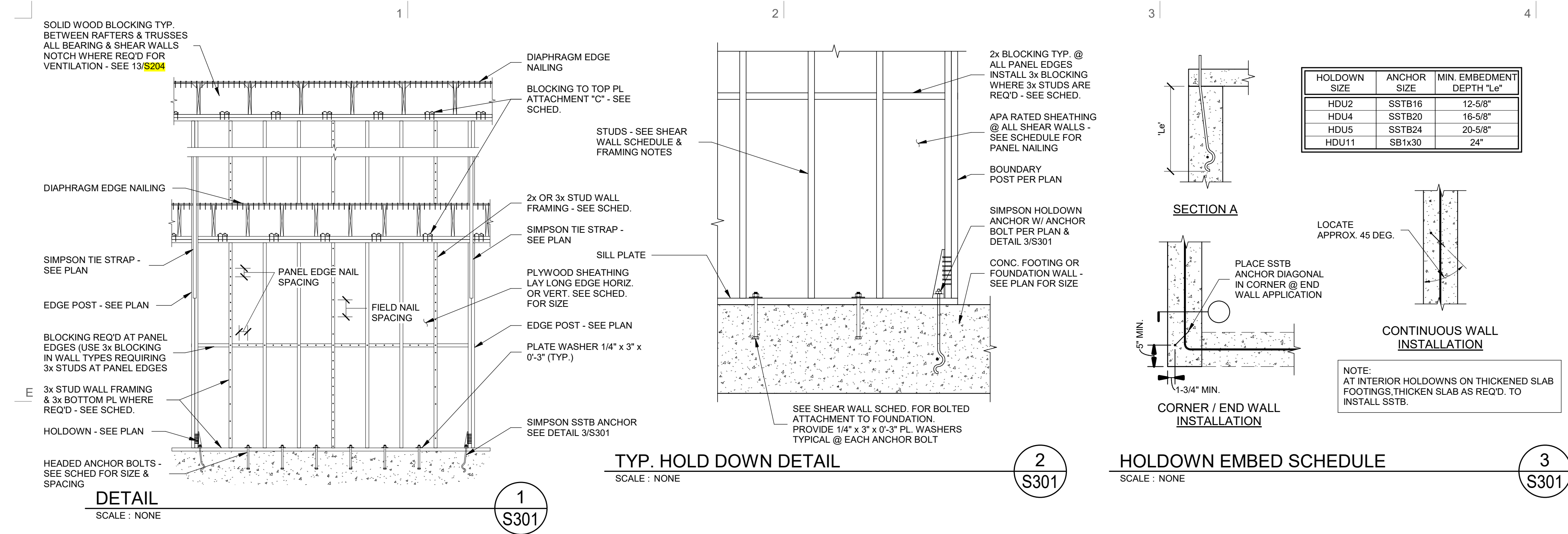


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DATE: 06.08.18

DETAILS

S205





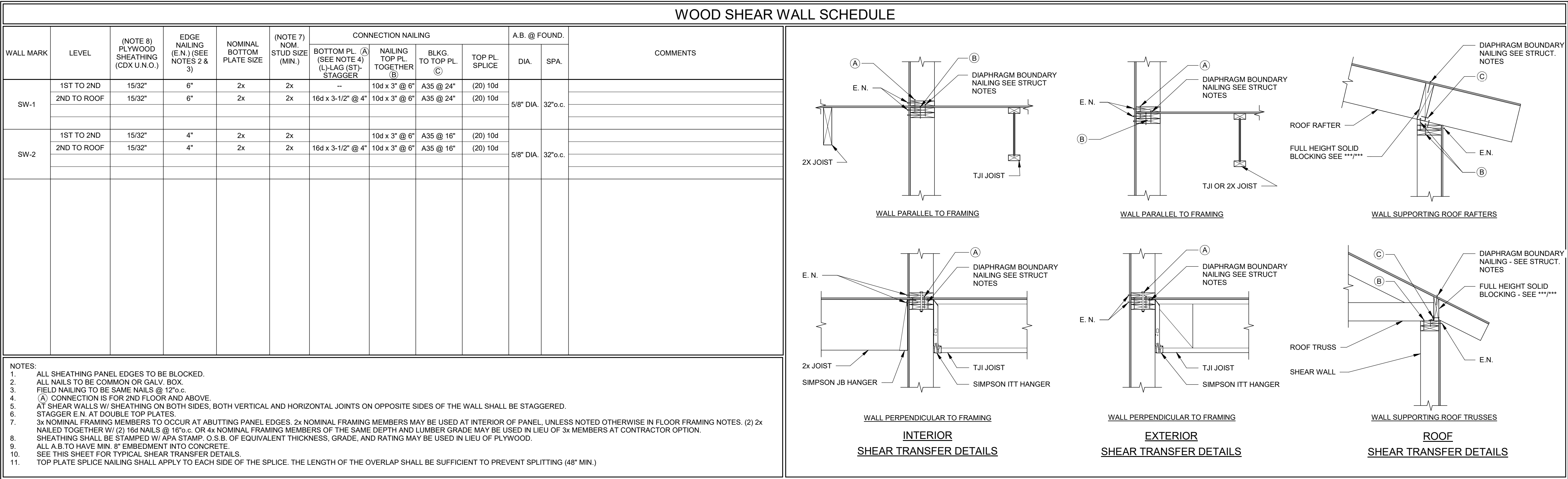
D

C

B

A

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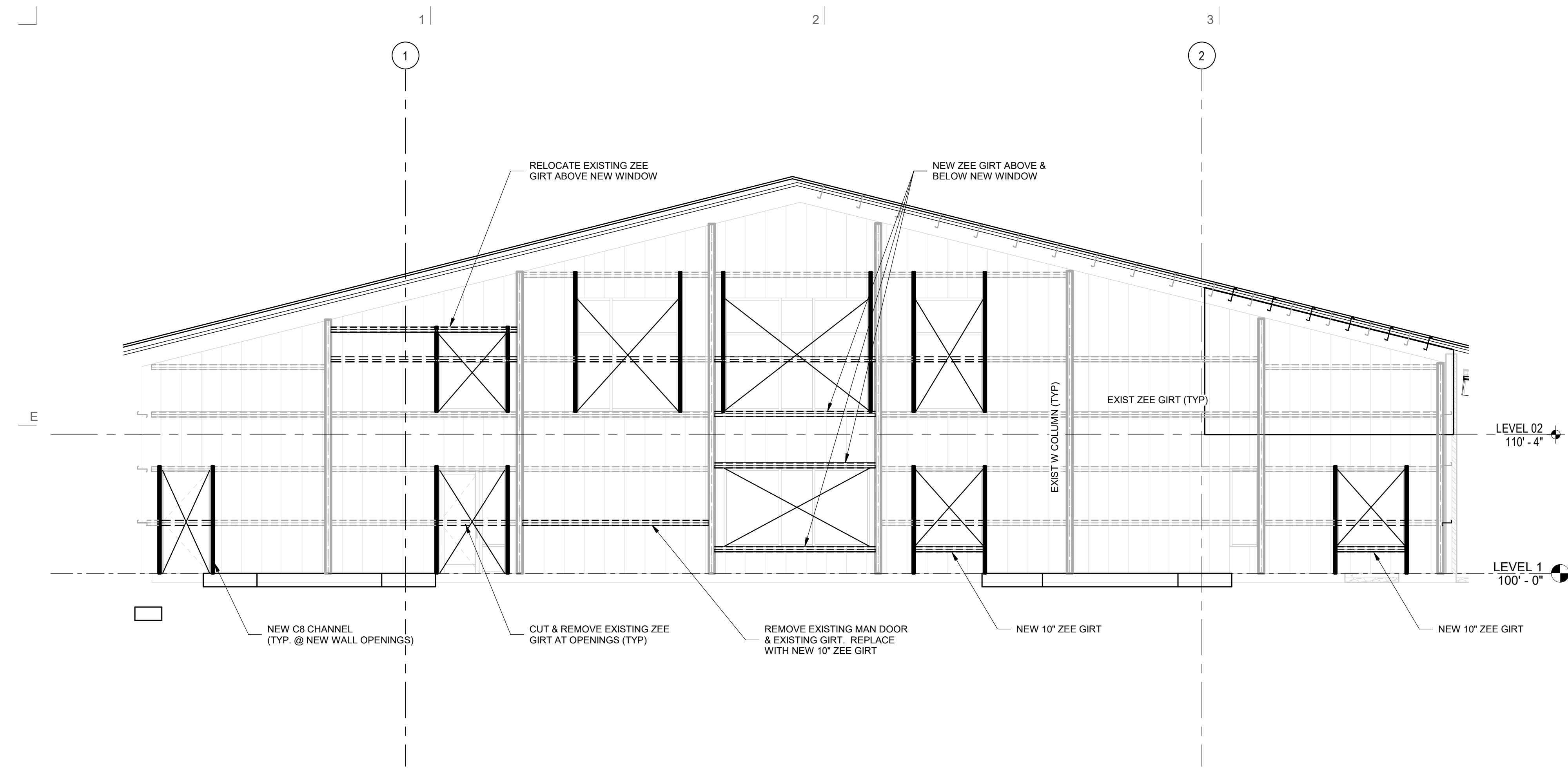


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DRAWN BY: Z.T.  
DATE: 06.08.18

DETAILS

S301

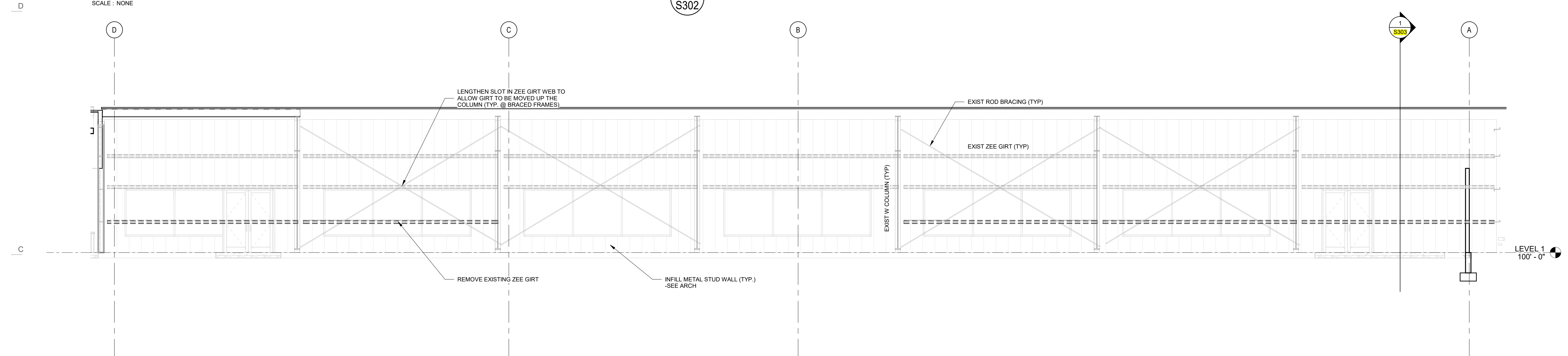




NORTH ELEVATION

SCALE: NONE

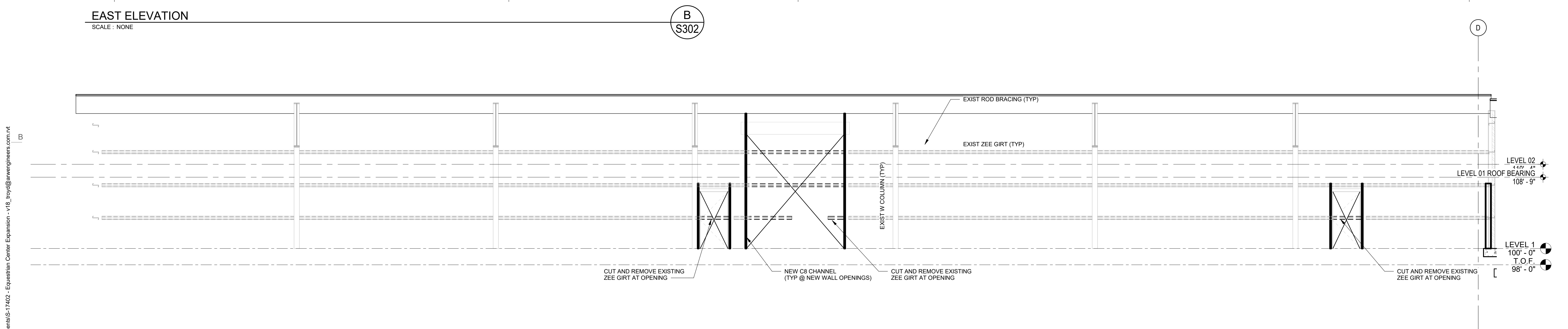
A  
S302



EAST ELEVATION

SCALE: NONE

B  
S302



WEST ELEVATION

SCALE: NONE

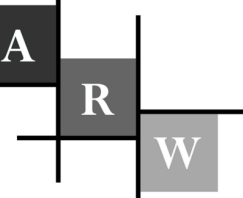
C  
S302



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ELEVATIONS

S302





SCALE : NONE

1  
S202

9302

- NEW C8 CHANNEL  
(TYP @ NEW WALL OPENING)
- CUT AND REMOVE EXISTING  
ZEE GIRT AT OPENING

- CUT AND REMOVE EXISTING ZEE GIRT AT OPENING

ROOF  
- 6 1/2" 

LEVEL 03  
125'-0"

LEVEL 02 

BEARING  
108° - 9"

LEVEL 1 

100' - 0" TOE

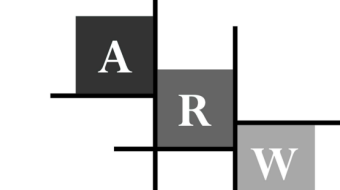
98' - 0"



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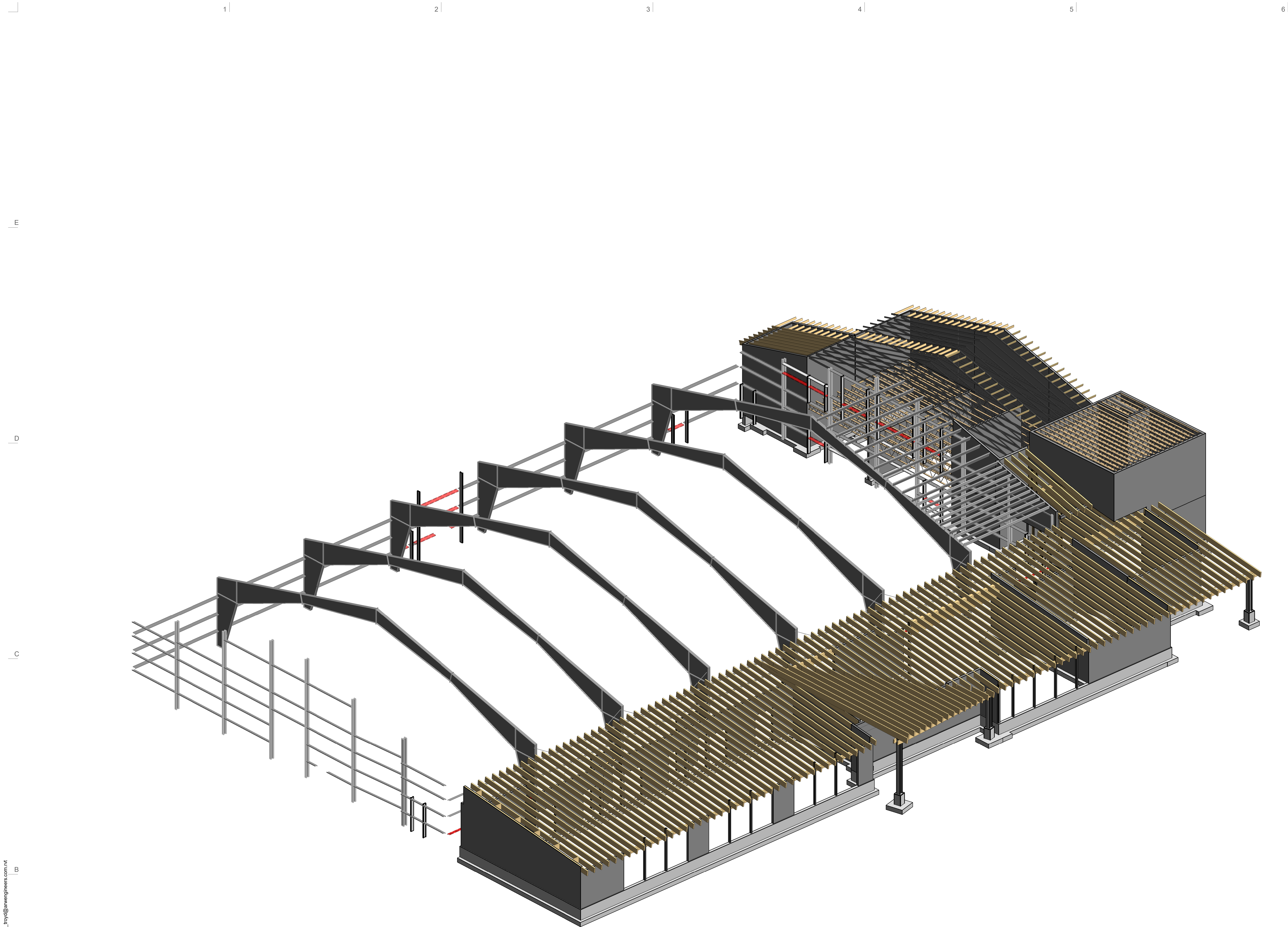
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CHECKED BY: Checker  
DRAWN BY: Author  
DATE: 06.08.14

## ELEVATIONS

**S303**

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SCHEMATIC REFERENCE  
SCALE: NONE

A  
S401

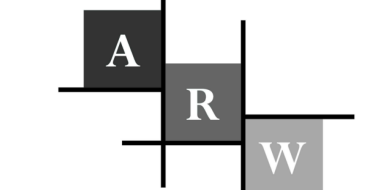
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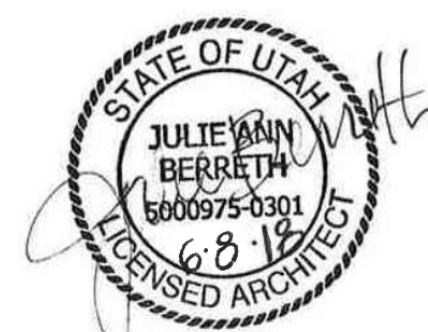
SCHEMATIC  
REFERENCE

S401



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**EQUESTRIAN CENTER EXPANSION**  
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#	Date	Revision
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## CONSTRUCTION DOCUMENTS

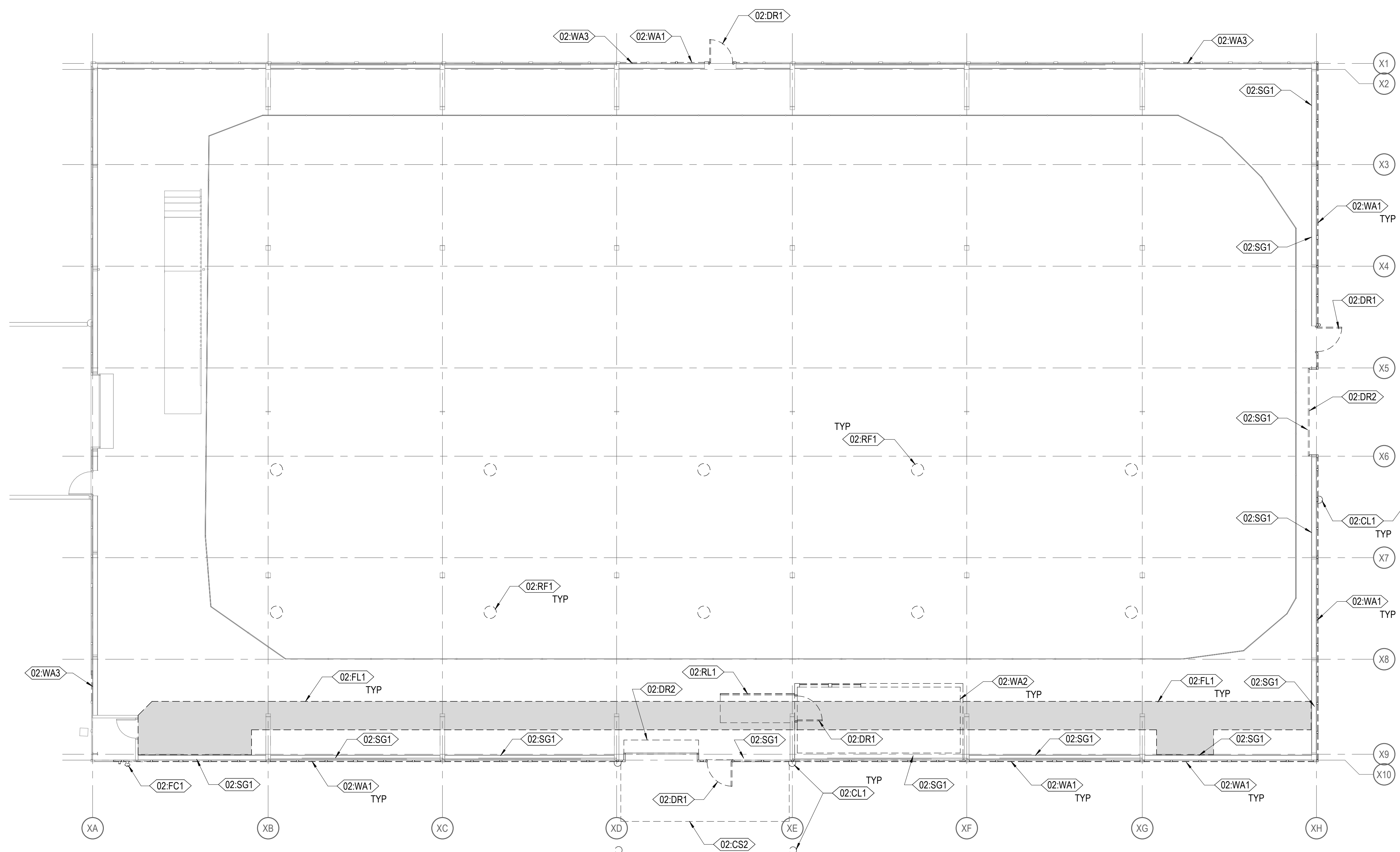
NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

## DEMOLITION PLAN

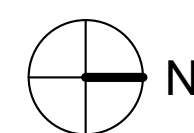
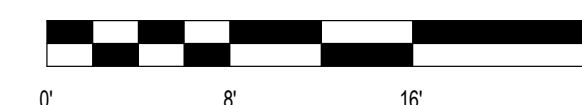
# AD101

- A. REMOVE ALL ELEMENTS SHOWN DASHED (---) ON DEMOLITION PLAN
- B. BUILDING ELEMENTS SHOWN AS SOLID LINES ON DEMOLITION PLAN ARE ELEMENTS TO REMAIN
- C. PROTECT WALLS, CEILINGS, FLOORS AND ALL OTHER EXISTING ELEMENTS TO REMAIN.  
CONTRACTOR TO PROVIDE PROTECTION OF PROTECTION BARRIERS AT FINISHED CONSTRUCTIONS TO PREVENT DAMAGE DURING CONSTRUCTION
- D. ANY DAMAGE TO MATERIALS INTENDED TO REMAIN IN PLACE ARE TO BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- E. SELECTIVELY REMOVE PORTIONS OF WORK ADJACENT TO BUILDING ELEMENTS TO REMAIN TO PROVIDE CLEAR, PLUMB OR LEVEL JOINTS THAT WILL CONCEAL THE JOINT BETWEEN EXISTING ELEMENTS TO REMAIN AND THE NEW WORK. HAVE AN EVIDENCE OF REMOVED ELEMENTS AT SURFACES TO REMAIN BY GRINDING OR OTHER APPROPRIATE MECHANICAL REMOVAL METHODS. PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO MATCH SURROUNDING EXISTING CONDITIONS
- F. TRANSFER DEMOLITION DEBRIS TO OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS
- G. COORDINATE ANY REQUIREMENTS FOR POSSIBLE SALVAGE, RECYCLING AND STORAGE OF EXISTING ELEMENTS TO BE DEMOLISHED WITH OWNER PRIOR TO DEMOLITION
- H. BUILDING ELEMENTS SHOWN TO BE DEMOLISHED ARE ACCURATE TO THE BEST KNOWLEDGE OF THE ARCHITECT, GENERAL CONTRACTOR AND SUBCONTRACTORS TO FIELD. SCHEDULE OF DEMOLITION WITH A PRE-BID INVESTIGATION, BIDS SHALL ACCOUNT FOR ALL ELEMENTS SHOWN OR NOT SHOWN. REMOVAL OF ALL ITEMS NECESSARY FOR THE COMPLETION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR
- I. ELABORATE SCHEDULE OF ALL DEMOLITION WORK TO ENSURE MINIMAL IMPACT ON OCCUPIED FACILITIES AND OPERATIONS

- 02-CL1 REMOVE EXISTING COLUMNS AND CANOPY (ABOVE)
- 02-CS2 REMOVE EXISTING CONCRETE SLAB
- 02-DR1 REMOVE EXISTING DOOR AND FRAME
- 02-DR2 REMOVE EXISTING OVERHEAD DOOR AND TRACK
- 02-F11 REMOVE AND RELOCATE EXISTING FIRE DEPARTMENT CONNECTION. COORDINATE WITH CIVIL AND MECHANICAL
- 02-F11 REMOVE PORTION OF EXISTING FLUORING/GROUT AS REQUIRED TO ACCOMMODATE NEW CONCRETE WALKWAY. REFER TO SOILS REPORT FOR PREPARATION UNDER SLAB
- 02-RF1 REMOVE PORTION OF EXISTING ROOF SYSTEM AS REQUIRED TO ACCOMMODATE NEW SOLATUBES
- 02-RL1 REMOVE EXISTING RAILING SYSTEM
- 02-SG1 REMOVE EXISTING STEEL GIRTS AS REQUIRED TO ACCOMMODATE NEW DOOR AND/OR WALKWAY SYSTEM. SALVAGE AND REINSTALL NEW LOCATION INDICATED ON DRAWINGS. COORDINATE WITH STRUCTURAL
- 02-WA1 REMOVE EXISTING EXTERIOR WALL PANEL SYSTEM. EXISTING BUILDING STRUCTURE TO REMAIN
- 02-WA2 REMOVE EXISTING WALLS AND CEILING
- 02-WA3 REMOVE EXISTING EXTERIOR WALL PANEL SYSTEM TO ACCOMMODATE NEW DOOR AND EXISTING STEEL GIRTS AS REQUIRED. COORDINATE WITH STRUCTURAL

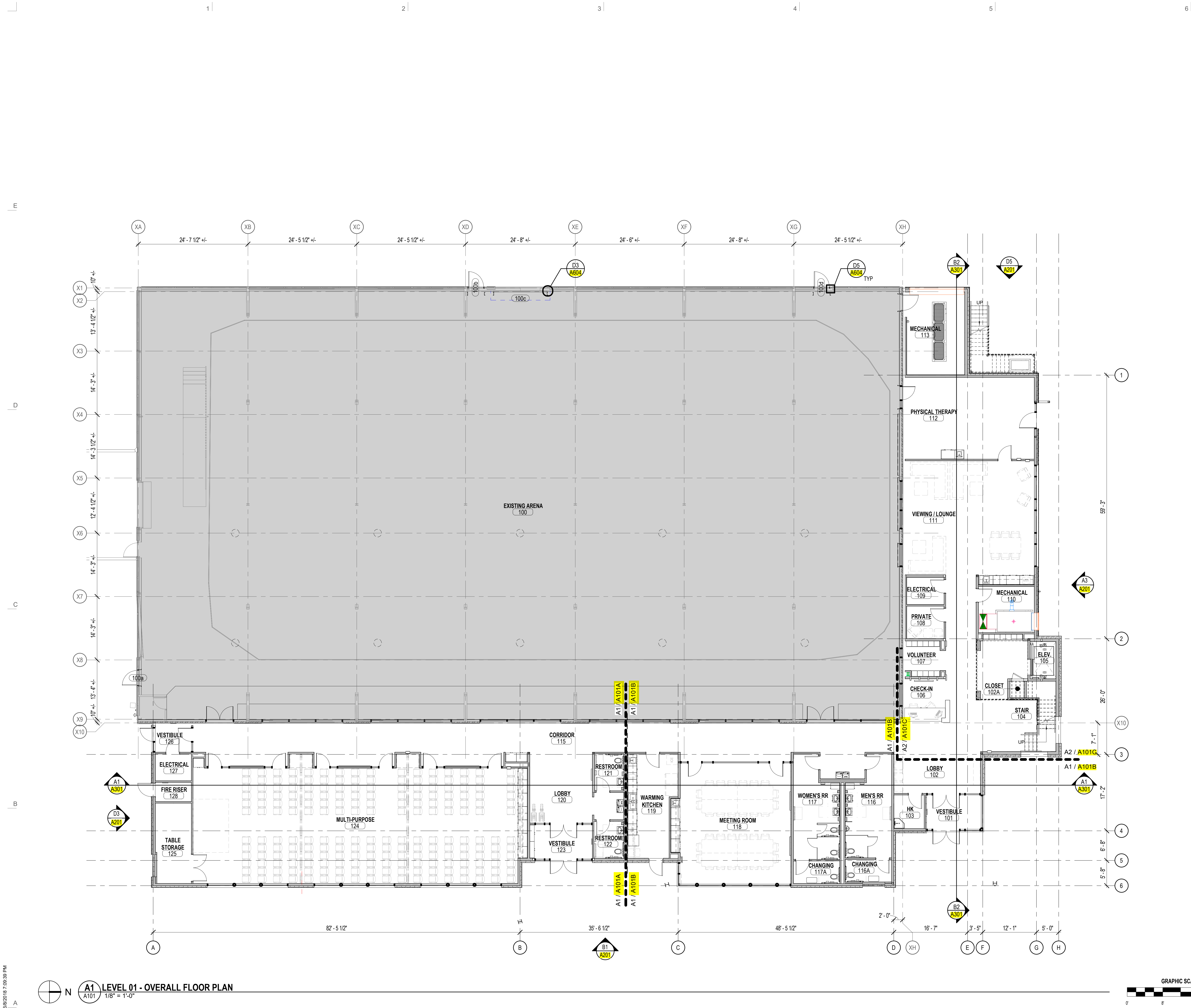


**GRAPHIC SCALE**



**A1 DEMOLITION PLAN**  
AD101 1/8" = 1'-0"





GENERAL NOTE - FLOOR PLAN

- A. DIMENSIONS ARE TO FACE OF EXISTING FINISH, NEW SUBSTRATE OR GRIDLINE. "CLEAR" DIMENSIONS ARE TO FACE OF 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, LANDSCAPE, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION
- E. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES
- F. CONTRACTOR TO COORDINATE WITH OWNER/TENANT PROVIDED EQUIPMENT AND FURNISHINGS
- G. REFER TO INTERIOR ELEVATIONS FOR MILLWORK TYPES AND DIMENSIONS
- H. DOORS SHALL HAVE AN 18" MIN CLEAR SPACE ON PULL SIDE OF DOOR FROM WALLS, MILLWORK, EQUIPMENT, LAVATORIES, ETC. COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION
- I. HINGE SIDE OF DOOR ROUGH OPENINGS SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL (U.N.O.), SUBJECT TO MAINTENANCE OF REQUIRED ADA CLEARANCES
- J. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING WALL CONDITIONS, INCLUDING FIRE RATED ASSEMBLIES. PATCH AND REPAIR AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION
- K. COORDINATE SCHEDULE OF ALL WORK TO ENSURE MINIMAL IMPACT ON OCCUPIED FACILITIES AND OPERATIONS
- L. REFER TO SHEET A101 FOR EXPANSION JOINT SCHEDULE AND DETAILS
- M. EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE



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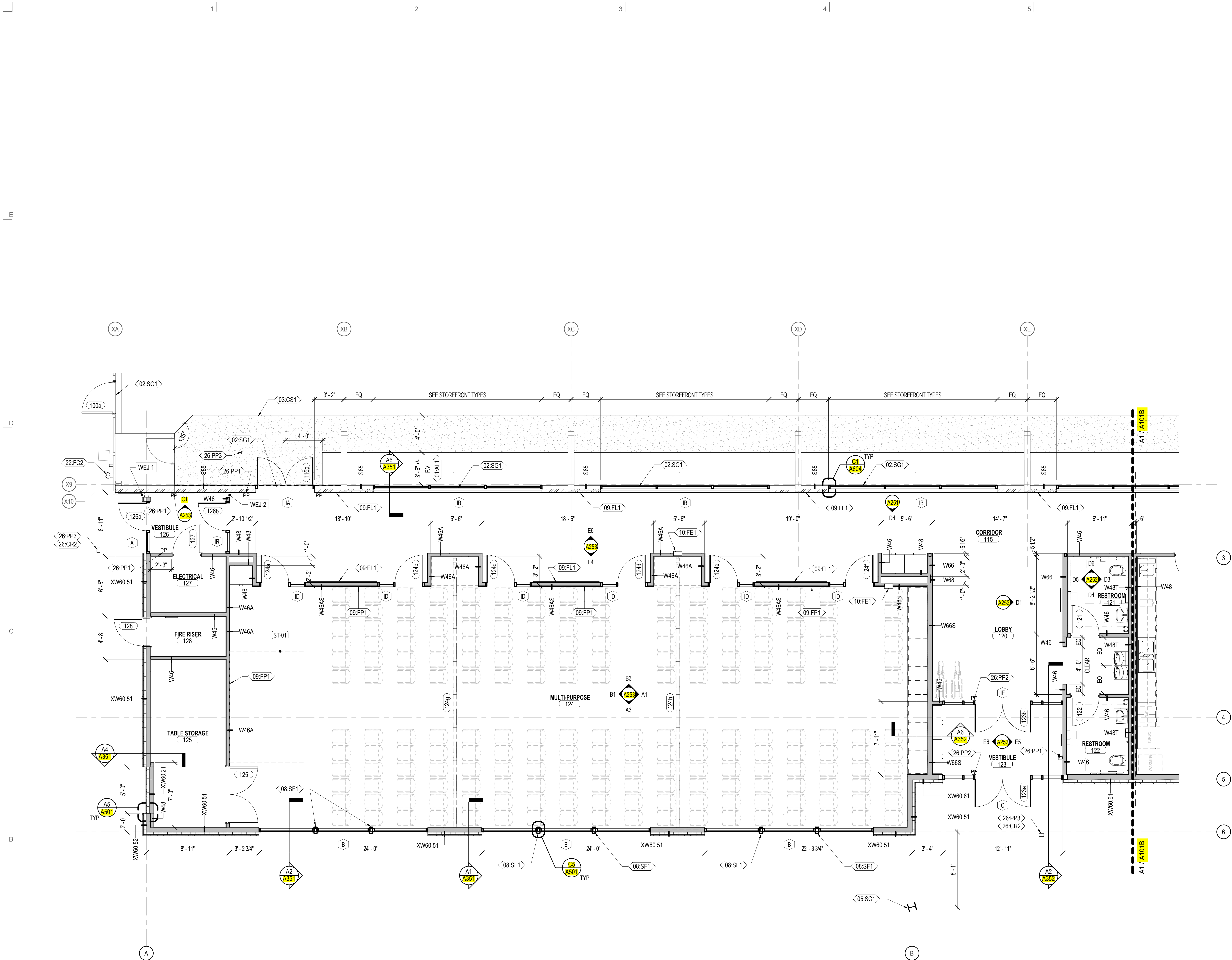
CONSTRUCTION DOCUMENTS

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DATE: 06.08.18

LEVEL 01 -  
OVERALL  
FLOOR PLAN

A101





GENERAL NOTE - FLOOR PLAN

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- K. COORDINATE SCHEDULE OF ALL WORK TO ENSURE MINIMAL IMPACT ON OCCUPIED FACILITIES AND OPERATIONS
- L. REFER TO SHEET **A101A** FOR EXPANSION JOINT SCHEDULE AND DETAILS
- M. EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE

KEYNOTE LEGEND

- 01.AL1 PROVIDE 6'-8" CLEAR HEIGHT (MIN) UNDER STEEL STRUCTURE AT EAST EDGE OF CONCRETE WALKWAY
- 02.SG1 REMOVE EXISTING STEEL GIRTS AS REQUIRED TO ACCOMMODATE NEW DOOR AND/OR WINDOW SYSTEM. SALVAGE AND REINSTALL IN NEW LOCATION INDICATED ON DRAWINGS. COORDINATE WITH STRUCTURAL
- 03.CS1 4" THICK CONCRETE SLAB ON GRADE. PROVIDE CONTROL JOINTS AT 8'-0" O.C. MAX. REFER TO STRUCTURAL FOR CONCRETE MIX AND REINFORCEMENT. REFER TO SOILS REPORT FOR PREPARATION UNDER SLAB
- 05.SC1 GALVANIZED CUSTOM PAINTED STEEL COLUMN. COORDINATE WITH STRUCTURAL
- 08.SF1 STEEL COLUMN AND STOREFRONT MULLION TO BE CENTERED ON GLULAM BEAM ABOVE
- 09.FL1 FELT ACOUSTIC WALL PANEL
- 09.FP1 PROVIDE LEVEL 05 FINISH
- 10.FE1 SEMI-RECESSED FIRE EXTINGUISHER CABINET
- 22.FC2 RELOCATED FIRE DEPARTMENT CONNECTION. COORDINATE WITH CIVIL AND MECHANICAL
- 26.CR2 DOOR ACCESS CONTROL ON PEDESTAL. COORDINATE WITH ELECTRICAL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN
- 26.PP1 DOOR ACTUATOR. COORDINATE WITH ELECTRICAL
- 26.PP2 DOOR ACTUATOR ON ALUMINUM STOREFRONT MULLION. COORDINATE WITH ELECTRICAL
- 26.PP3 DOOR ACTUATOR ON PEDESTAL. COORDINATE WITH ELECTRICAL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN



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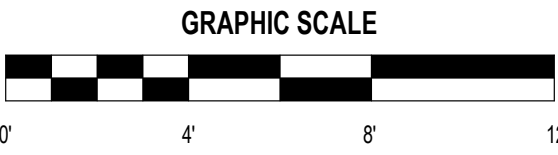
CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

LEVEL 01  
FLOOR PLAN -  
AREA 'A'

A101A

06/20/18 7:59:48 PM  
A1 LEVEL 01 FLOOR PLAN - AREA 'A'  
A101A 1/4" = 1'-0"





GENERAL NOTE - FLOOR PLAN

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- F. CONTRACTOR TO COORDINATE WITH OWNER/TENANT PROVIDED EQUIPMENT AND FURNISHINGS
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- H. DOORS SHALL HAVE AN 18" MIN CLEAR SPACE ON PULL SIDE OF DOOR FROM WALLS, MILLWORK, EQUIPMENT, LAVATORIES, ETC. COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION
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- K. COORDINATE SCHEDULE OF ALL WORK TO ENSURE MINIMAL IMPACT ON OCCUPIED FACILITIES AND OPERATIONS
- L. REFER TO SHEET **A101B** FOR EXPANSION JOINT SCHEDULE AND DETAILS
- M. EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE

KEYNOTE LEGEND

- 01.AL1 PROVIDE 6'-8" CLEAR HEIGHT (MIN) UNDER STEEL STRUCTURE AT EAST EDGE OF CONCRETE WALKWAY
- 02.SG1 REMOVE EXISTING STEEL GIRTS AS REQUIRED TO ACCOMMODATE NEW DOOR AND/OR WINDOW SYSTEM. SALVAGE AND REINSTALL IN NEW LOCATION INDICATED ON DRAWINGS. COORDINATE WITH STRUCTURAL
- 03.CS1 4" THICK CONCRETE SLAB ON GRADE. PROVIDE CONTROL JOINTS AT 8'-0" O.C. MAX. REFER TO STRUCTURAL FOR CONCRETE MIX AND REINFORCEMENT. REFER TO SOILS REPORT FOR PREPARATION UNDER SLAB
- 05.SC1 GALVANIZED CUSTOM PAINTED STEEL COLUMN. COORDINATE WITH STRUCTURAL
- 06.QZ1 30" DEEP SOLID SURFACE COUNTERTOP
- 07.DS2 3" DIAMETER PRE-FINISHED ALUMINUM DOWNSPOUT
- 08.SF1 STEEL COLUMN AND STOREFRONT MULLION TO BE CENTERED ON GLULAM BEAM ABOVE
- 09.FL1 FELT ACOUSTIC WALL PANEL
- 10.FE1 SEMI-RECESSED FIRE EXTINGUISHER CABINET
- 26.CR2 DOOR ACCESS CONTROL ON PEDESTAL. COORDINATE WITH ELECTRICAL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN
- 26.FB1 FLOOR BOX. COORDINATE WITH ELECTRICAL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN
- 26.PP1 DOOR ACTUATOR. COORDINATE WITH ELECTRICAL
- 26.PP2 DOOR ACTUATOR ON ALUMINUM STOREFRONT MULLION. COORDINATE WITH ELECTRICAL
- 26.PP3 DOOR ACTUATOR ON PEDESTAL. COORDINATE WITH ELECTRICAL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN



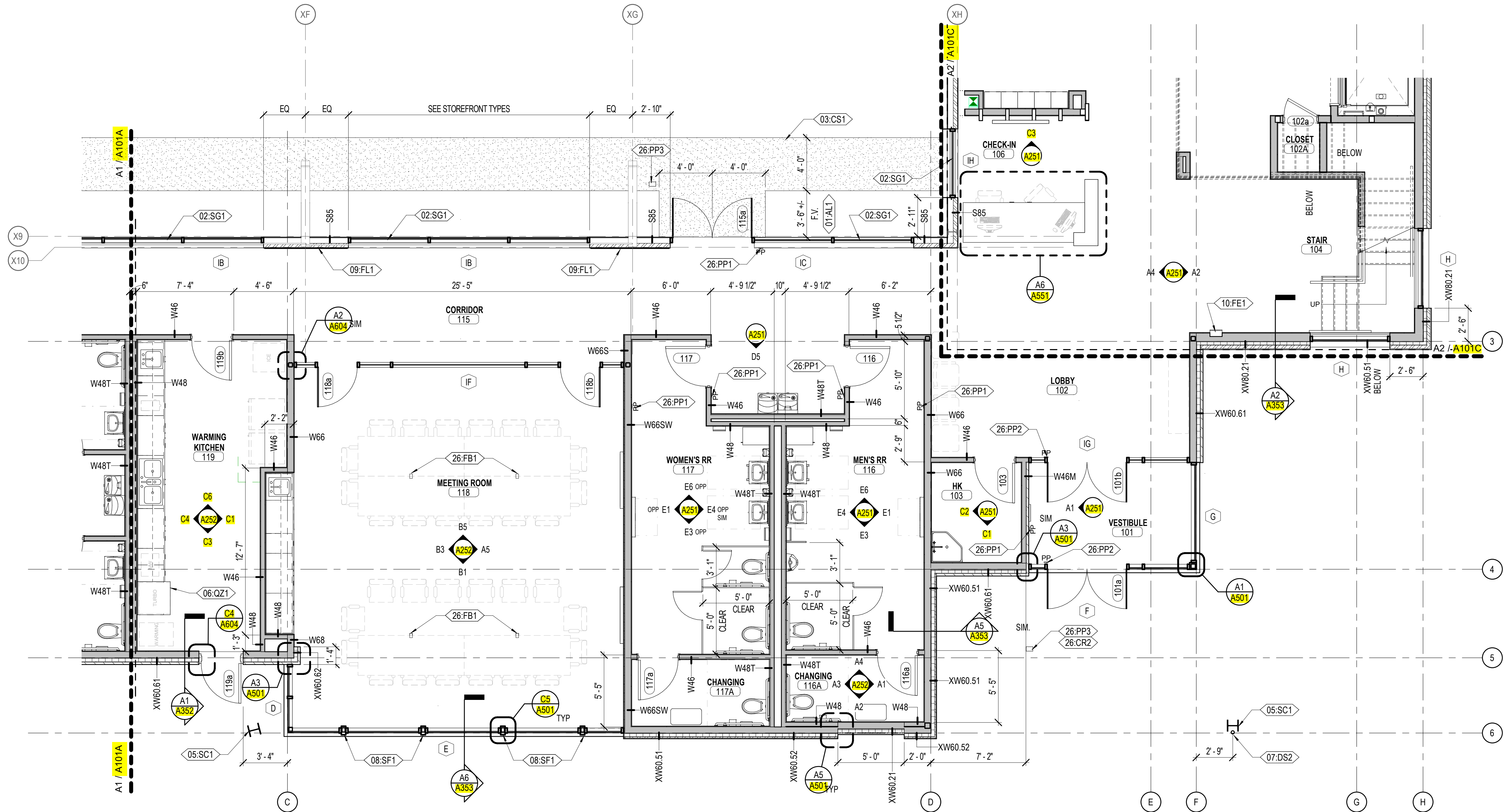
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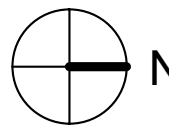
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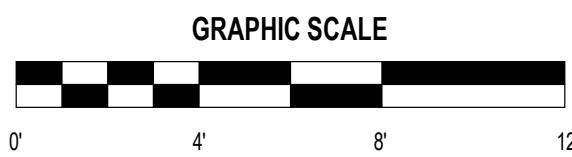
NEXUS PROJ. #: 17179  
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DRAWN BY: JPA  
DATE: 06.08.18

LEVEL 01  
FLOOR PLAN -  
AREA 'B'

A101B

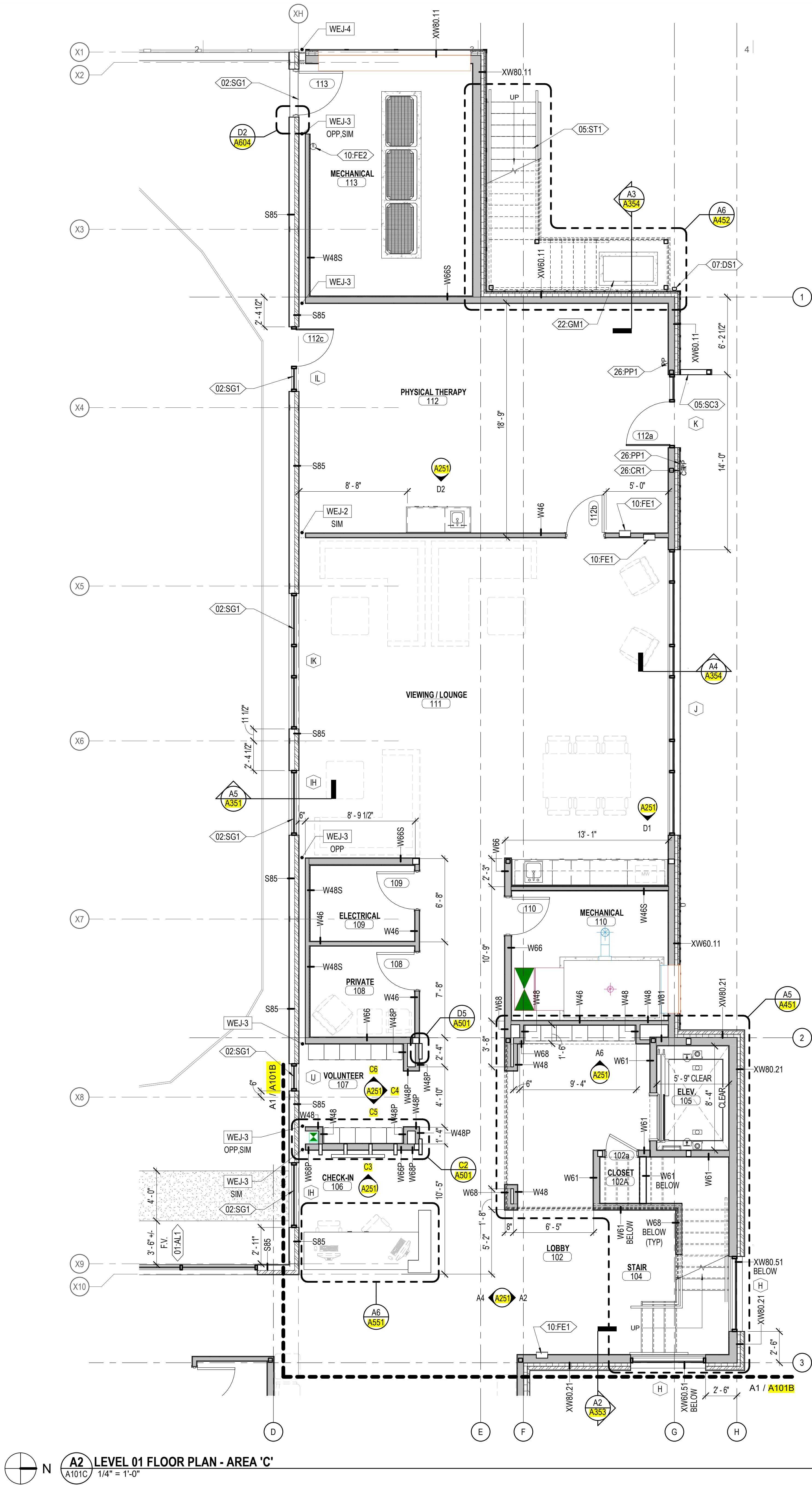


**A1** LEVEL 01 FLOOR PLAN - AREA 'B'  
A101B 1/4" = 1'-0"





08/20/18 7:19:57 PM



**A2** LEVEL 01 FLOOR PLAN - AREA 'C'  
A101C 1/4" = 1'-0"

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- H. DOORS SHALL HAVE AN 18" MIN CLEAR SPACE ON PULL SIDE OF DOOR FROM WALLS, MILLWORK, EQUIPMENT, LAVATORIES, ETC. COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION
- I. HINGE SIDE OF DOOR ROUGH OPENINGS SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL (U.N.O.), SUBJECT TO MAINTENANCE OF REQUIRED ADA CLEARANCES
- J. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING WALL CONDITIONS, INCLUDING FIRE RATED ASSEMBLIES. PATCH AND REPAIR AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION
- K. COORDINATE SCHEDULE OF ALL WORK TO ENSURE MINIMAL IMPACT ON OCCUPIED FACILITIES AND OPERATIONS
- L. REFER TO SHEET **A201** FOR EXPANSION JOINT SCHEDULE AND DETAILS
- M. EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE

**KEYNOTE LEGEND**

- 01.AL1 PROVIDE 6'-8" CLEAR HEIGHT (MIN) UNDER STEEL STRUCTURE AT EAST EDGE OF CONCRETE WALKWAY
- 02.SG1 REMOVE EXISTING STEEL GIRTS AS REQUIRED TO ACCOMMODATE NEW DOOR AND/OR WINDOW SYSTEM. SALVAGE AND REINSTALL IN NEW LOCATION INDICATED ON DRAWINGS. COORDINATE WITH STRUCTURAL
- 05.SC3 WEATHERED STEEL CANOPY
- 05.ST1 GALVANIZED EXTERIOR METAL GRATE STAIR AND RAILING
- 07.DS1 DOWNSPOUT
- 10.FE1 SEMI-RECESSED FIRE EXTINGUISHER CABINET
- 10.FE2 BRACKET MOUNTED FIRE EXTINGUISHER
- 22.GM1 GAS METER ON CONCRETE PAD
- 26.CR1 DOOR ACCESS CONTROL. COORDINATE WITH ELECTRICAL
- 26.PP1 DOOR ACTUATOR. COORDINATE WITH ELECTRICAL



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**LEVEL 01  
FLOOR PLAN -  
AREA 'C'**

**A101C**





GENERAL NOTE - FLOOR PLAN

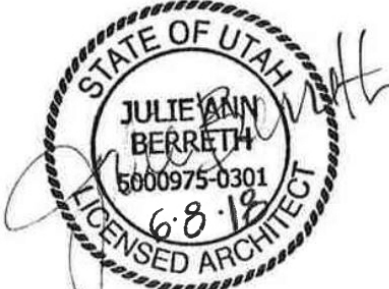
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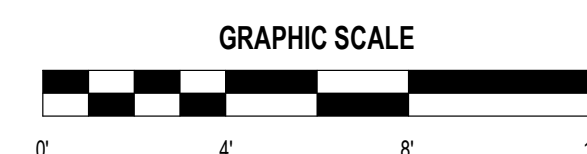
LEVEL 02 -  
OVERALL  
FLOOR PLAN

A102





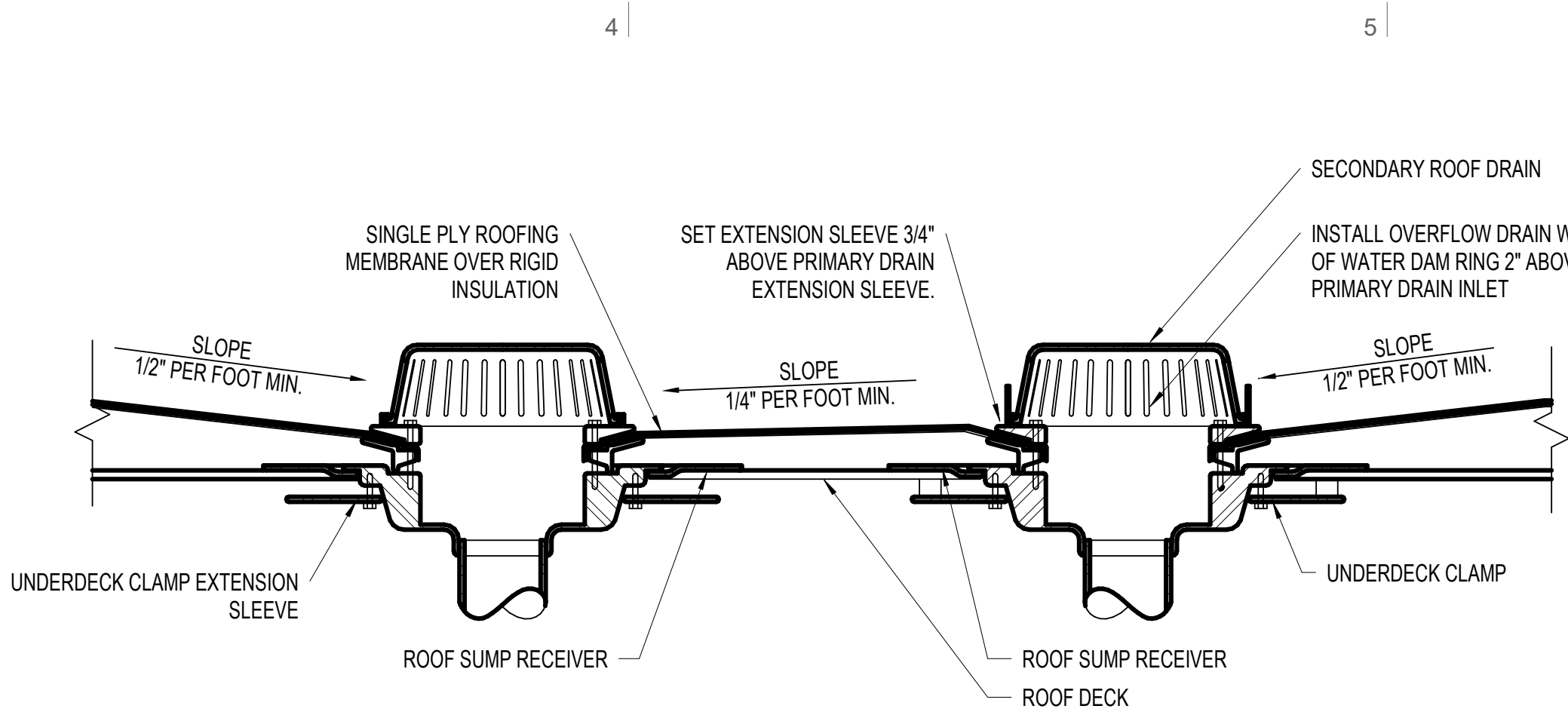
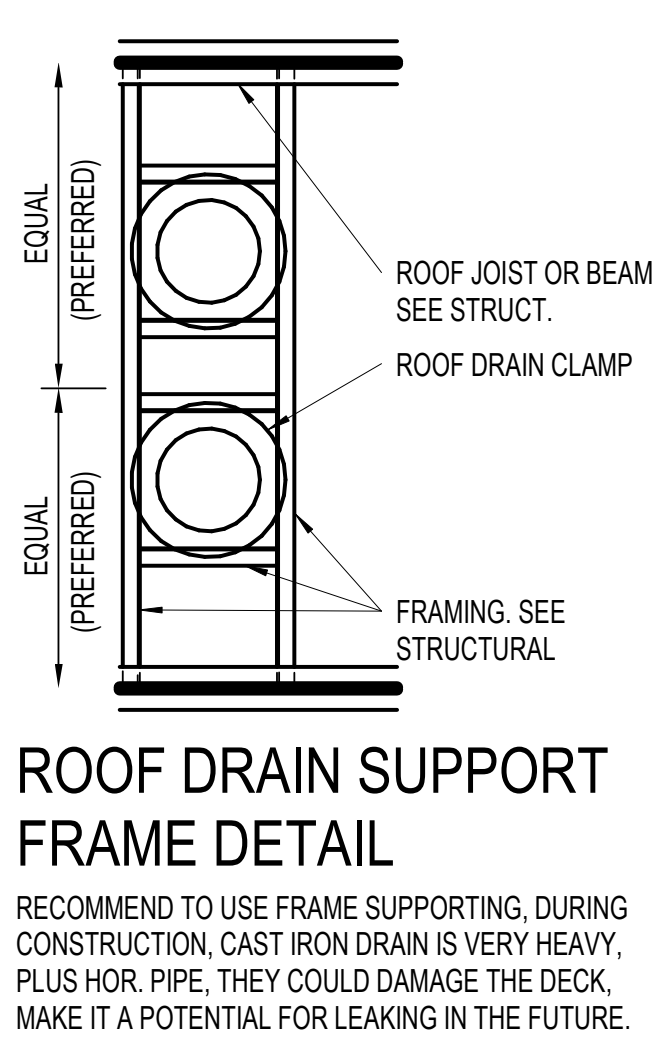
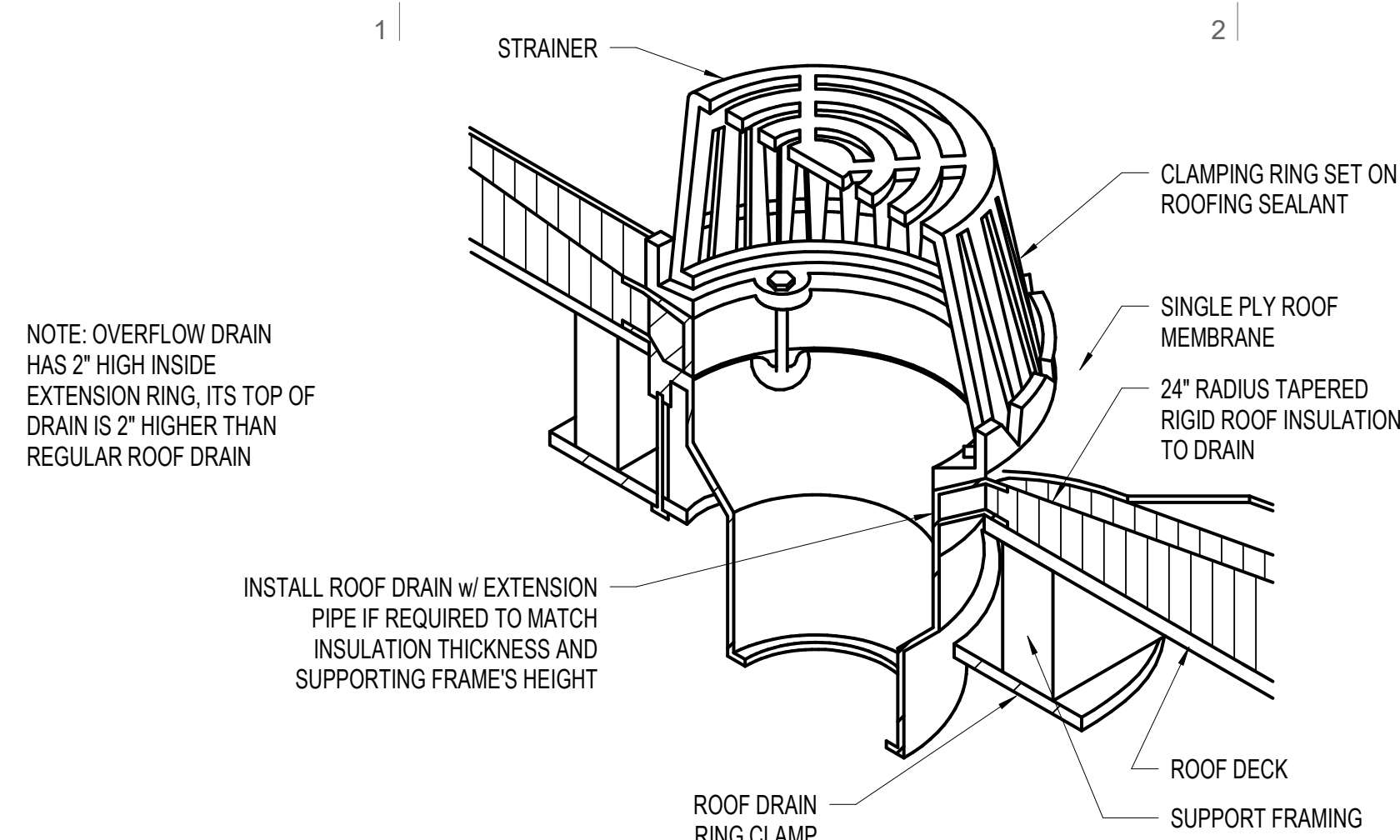
**A2** LEVEL 02 FLOOR PLAN - AREA 'C'



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# A102C



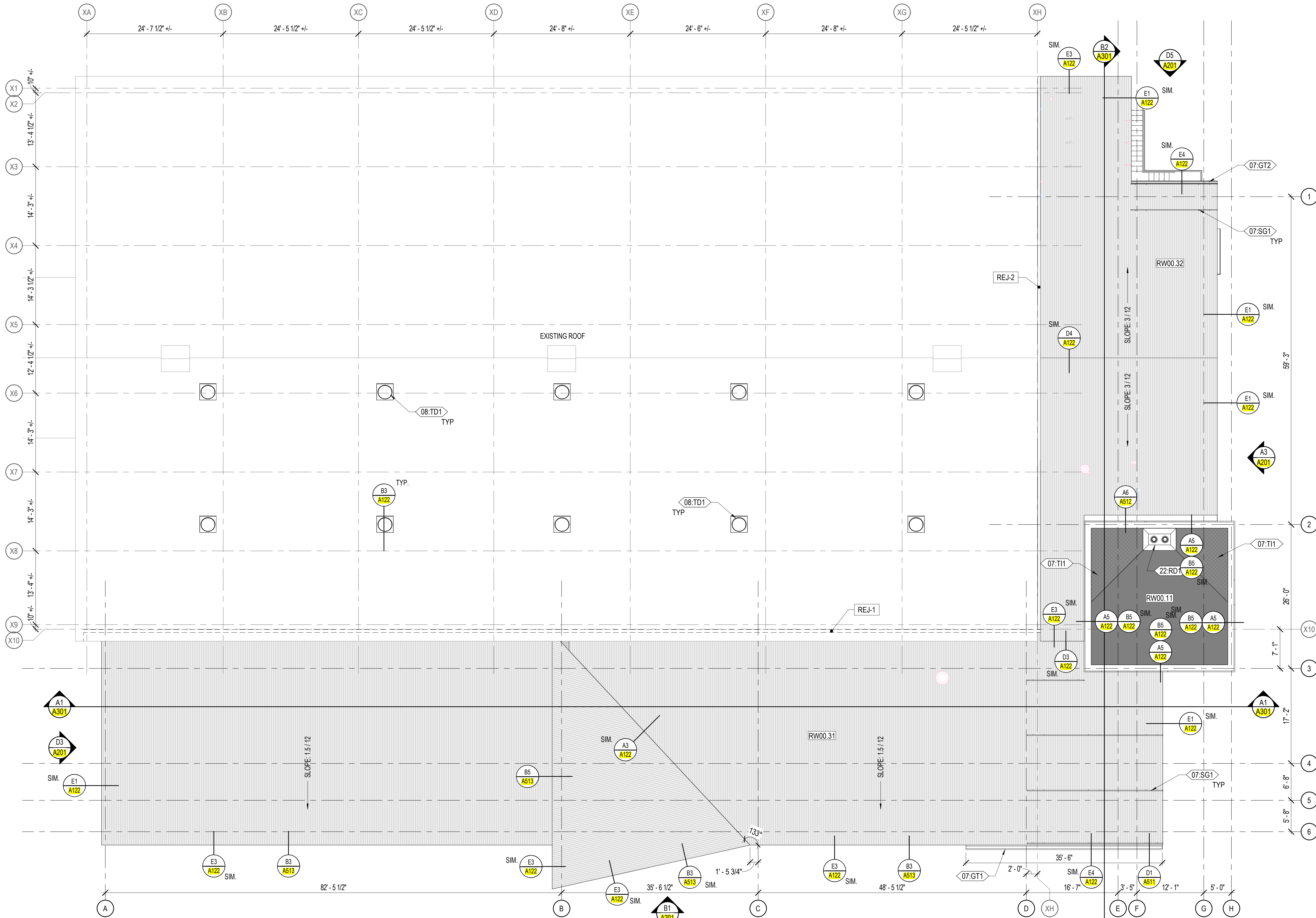


#### GENERAL NOTE - ROOF PLAN

- COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS
- REFER TO SHEET **A501** FOR EXPANSION JOINT SCHEDULE AND DETAILS
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN FIELD
- PROVIDE ADDITIONAL FLASHING, COUNTER FLASHING, PRESSURE TREATED WOOD BLOCKING AND ALL OTHER NECESSARY MATERIALS FOR COMPLETE ROOF RECONSTRUCTION
- PROVIDE CRICKETS ABOVE ALL OBSTRUCTIONS TO WATER FLOW WHICH ARE WIDER THAN 2 FEET. CRICKET BACK SLOPES SHALL BE TWICE THAT OF ROOF SLOPES
- 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
- EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE

#### KEYNOTE LEGEND

- 07-GT1 PRE-FINISHED CUSTOM ALUMINUM GUTTER AND DOWNSPOUT  
07-GT2 PRE-FINISHED METAL GUTTER AND DOWNSPOUT  
07-SG1 SNOWGUARD. ANCHOR TO STRUCTURAL ROOF FRAMING  
07-T11 TAPERED RIGID INSULATION CRICKET  
08-TD1 TUBULAR DAYLIGHTING ELEMENT. PATCH AND REPAIR EXISTING ROOF. PROVIDE FLASHING AND SEAL WATER TIGHT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT AND EXISTING BUILDING STRUCTURE  
22-RD1 ROOF DRAIN. COORDINATE WITH PLUMBING

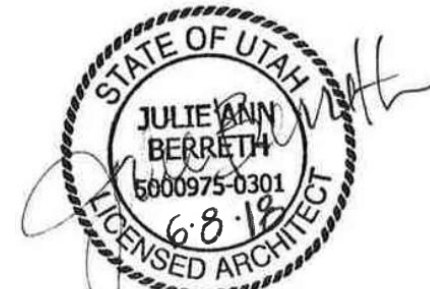


**A121 ROOF PLAN**  
1/8" = 1'-0"



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NATIONAL ABILITY CENTER  
**EQUESTRIAN CENTER EXPANSION**  
1000 ABILITY WAY  
PARK CITY, UTAH 84060

# Date Revision

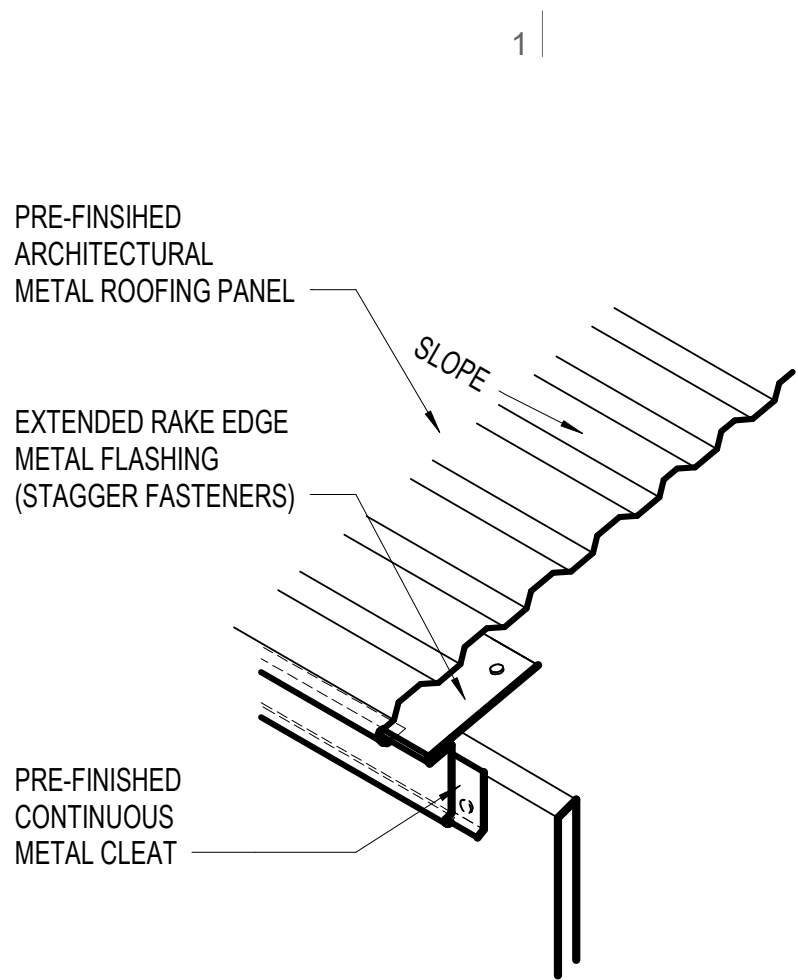
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NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

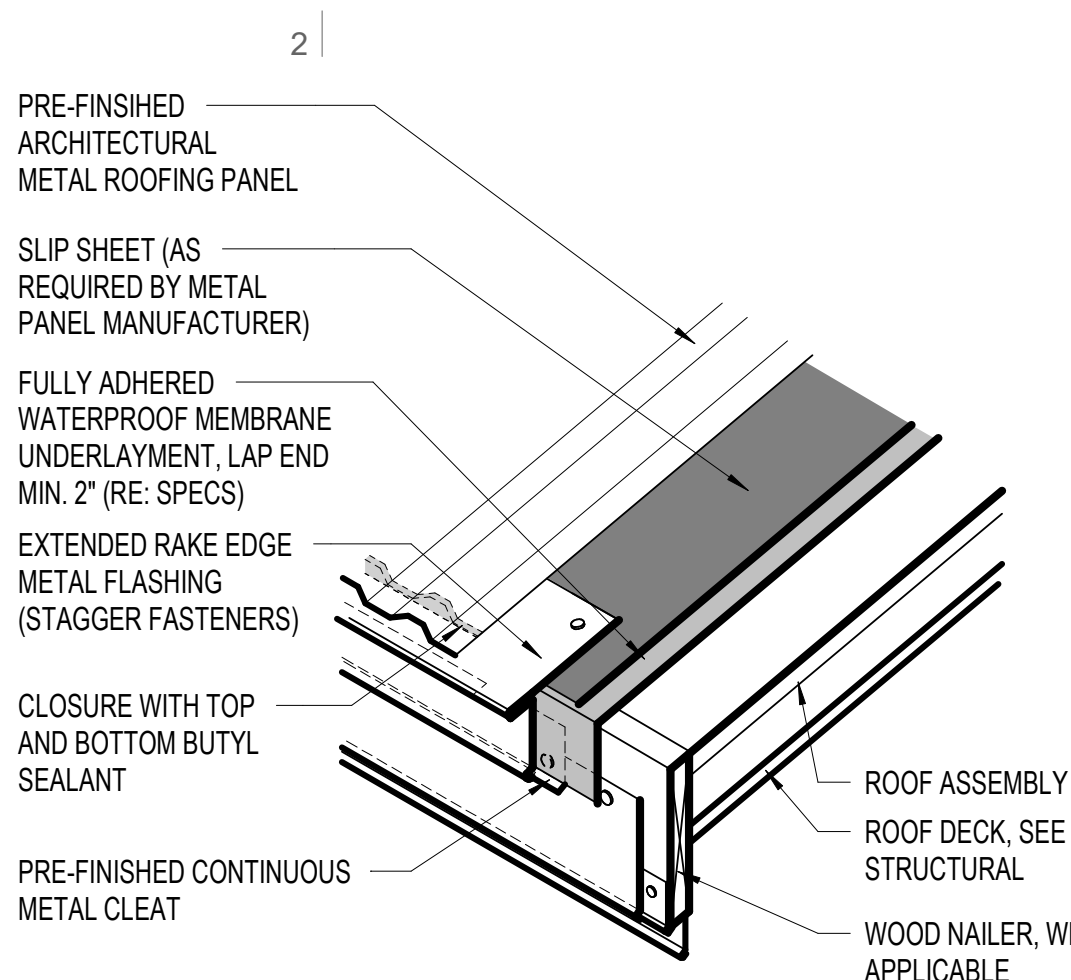
#### ROOF PLAN

**A121**

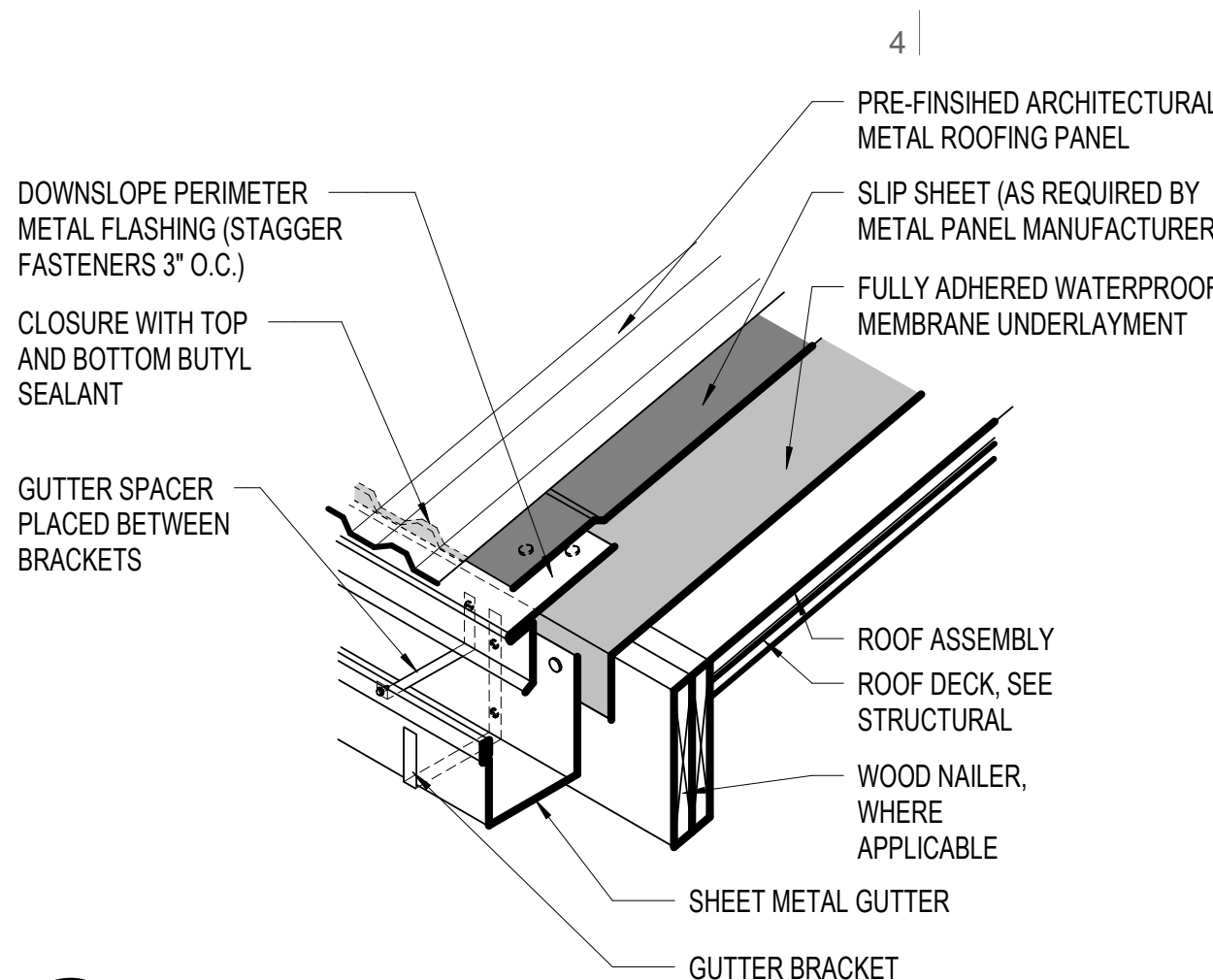




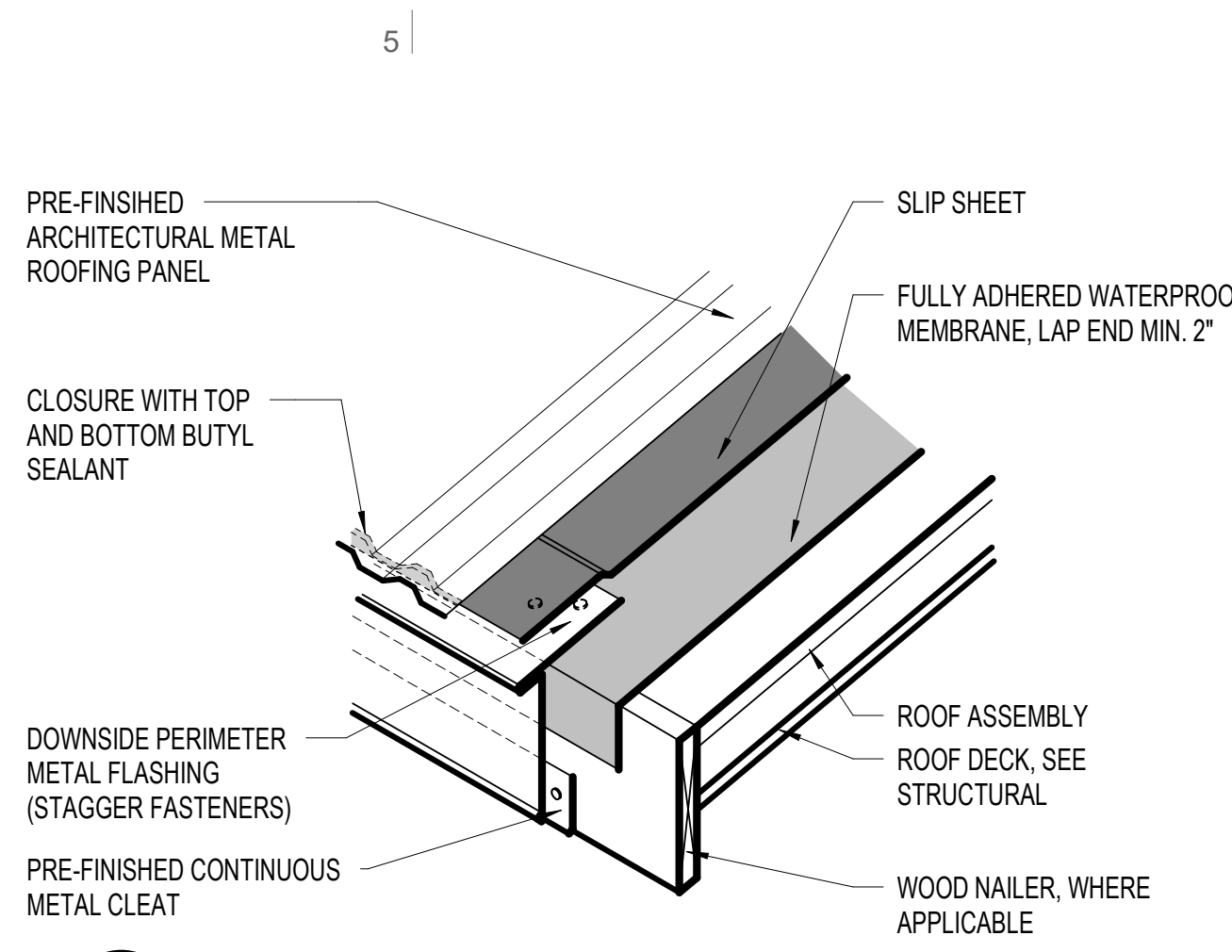
**E1 ROOFING (METAL) - EDGE w/ RAKE NO DECK**  
A122 1 1/2" = 1'-0"



**E3 ROOFING (METAL) - EDGE w/ RAKE**  
A122 1 1/2" = 1'-0"



**E4 ROOFING (METAL) - EDGE w/ GUTTER**  
A122 1 1/2" = 1'-0"



**E5 ROOFING (METAL) - EAVE**  
A122 1 1/2" = 1'-0"

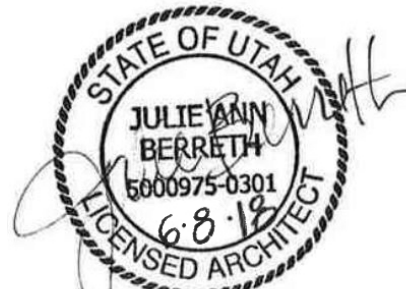
#### GENERAL NOTE - ROOF PLAN

- COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS
- REFER TO SHEET **A201** FOR EXPANSION JOINT SCHEDULE AND DETAILS
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN FIELD
- PROVIDE ADDITIONAL FLASHING, COUNTER FLASHING, PRESSURE TREATED WOOD BLOCKING AND ALL OTHER NECESSARY MATERIALS FOR COMPLETE ROOF RECONSTRUCTION
- PROVIDE CRICKETS ABOVE ALL OBSTRUCTIONS TO WATER FLOW WHICH ARE WIDER THAN 2 FEET. CRICKET BACK SLOPES SHALL BE TWICE THAT OF ROOF SLOPES
- 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
- EXISTING GRIDLINE 'XH' AND 'X10' ALIGN WITH EXTERIOR FACE OF EXISTING ARENA STRUCTURE

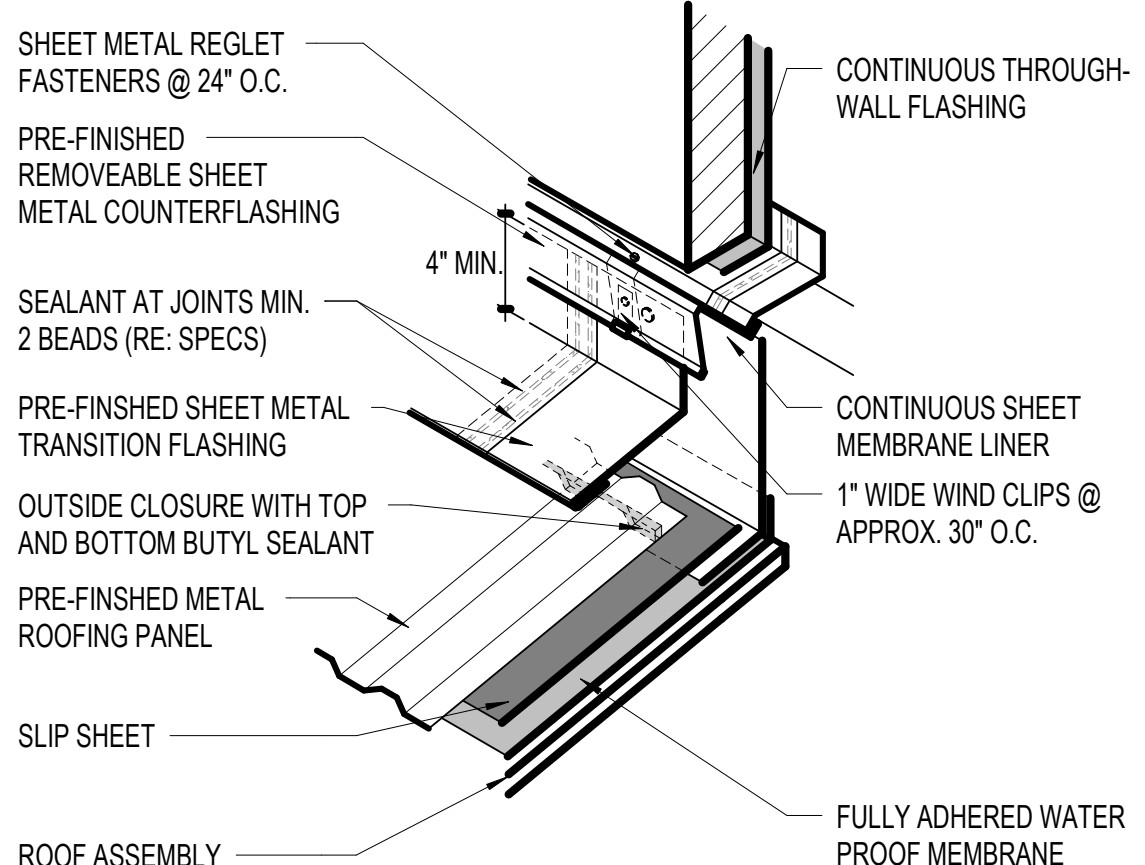


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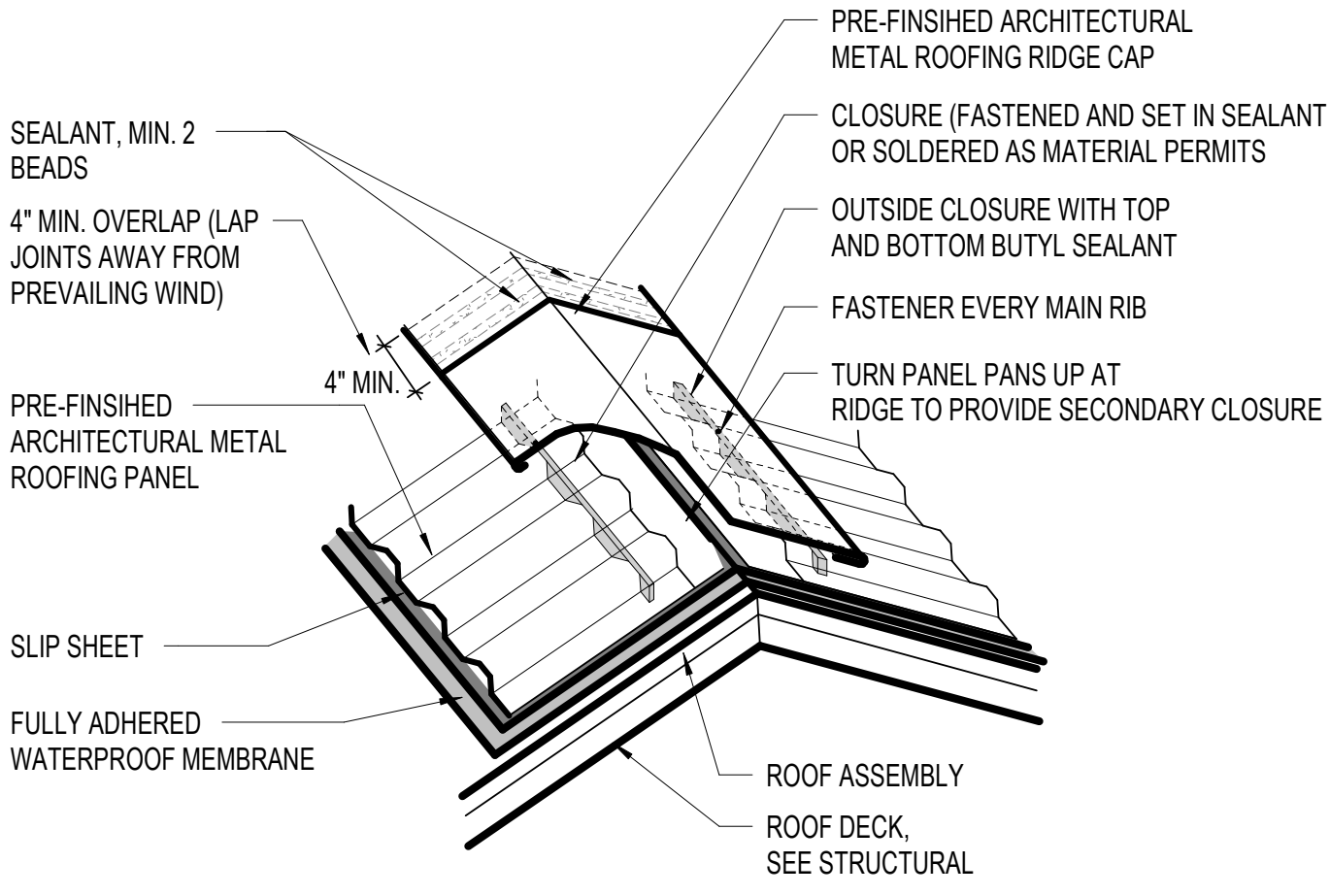
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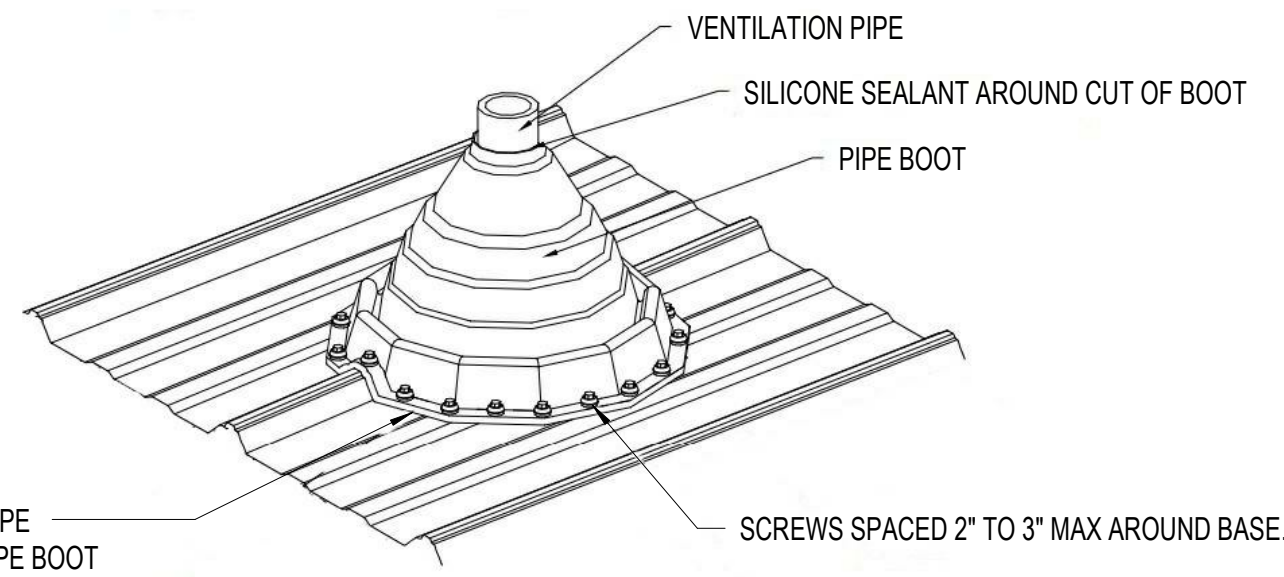
## NATIONAL ABILITY CENTER EQUESTRIAN CENTER EXPANSION 1000 ABILITY WAY PARK CITY, UTAH 84060



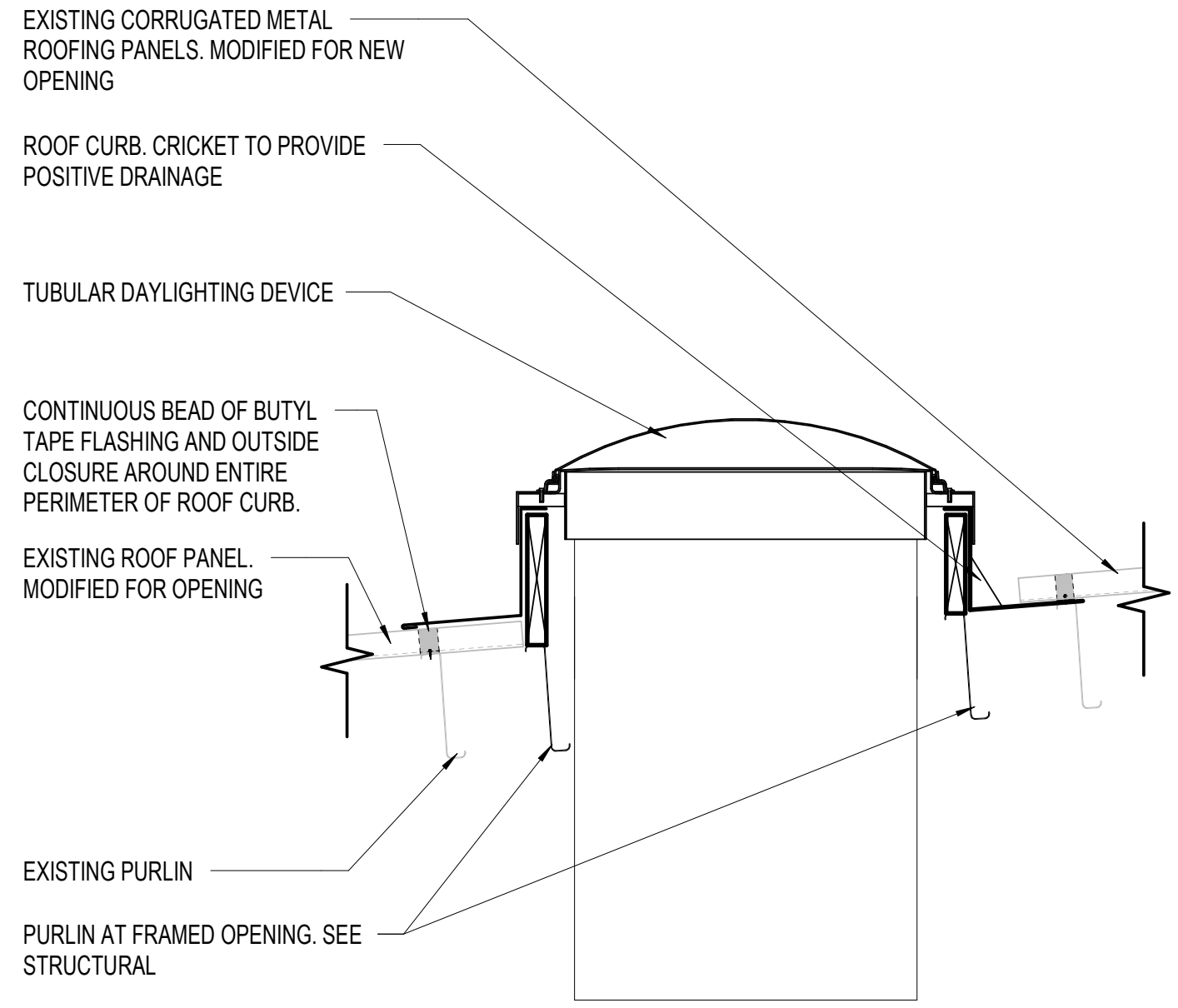
**D3 ROOFING (METAL) - WALL FLASHING**  
A122 1 1/2" = 1'-0"



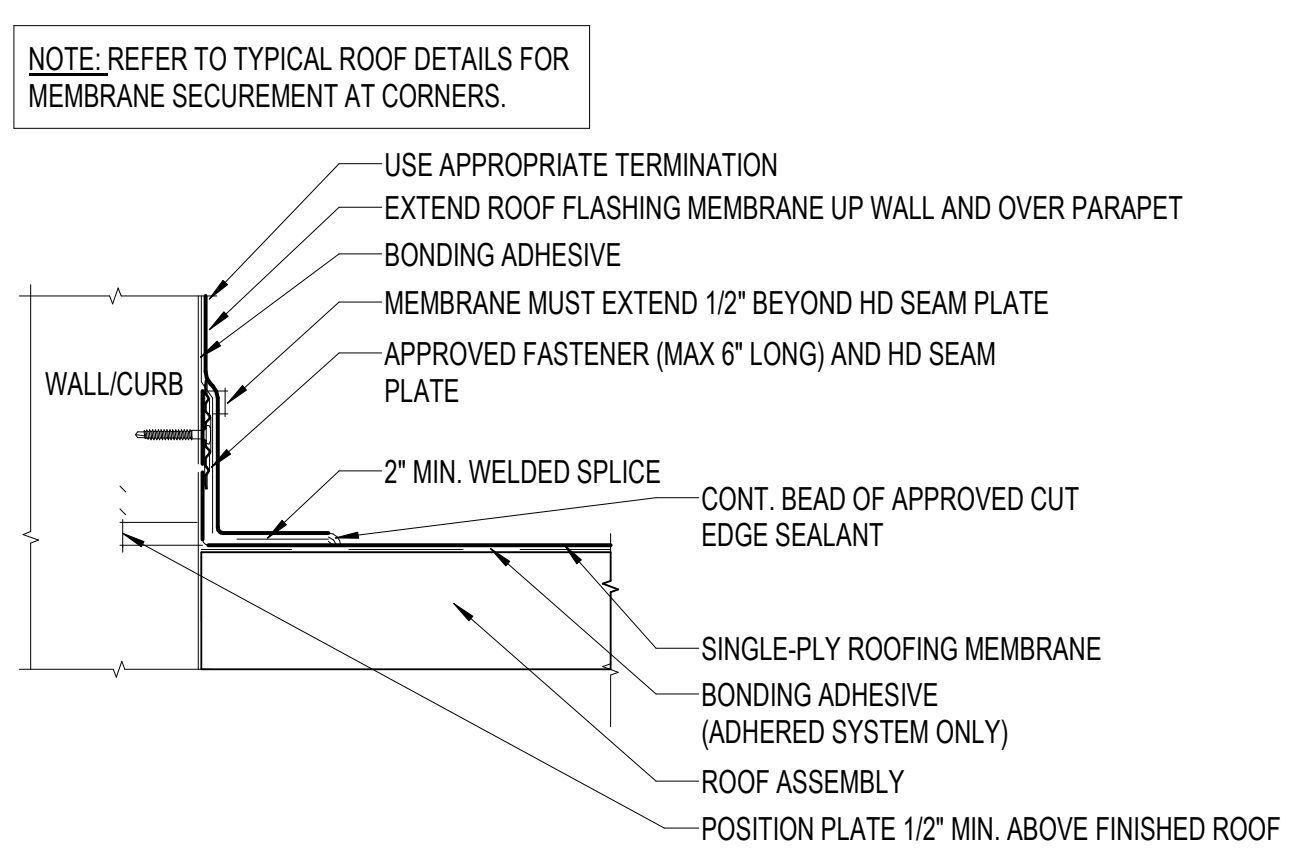
**D4 ROOFING (METAL) - RIDGE**  
A122 1 1/2" = 1'-0"



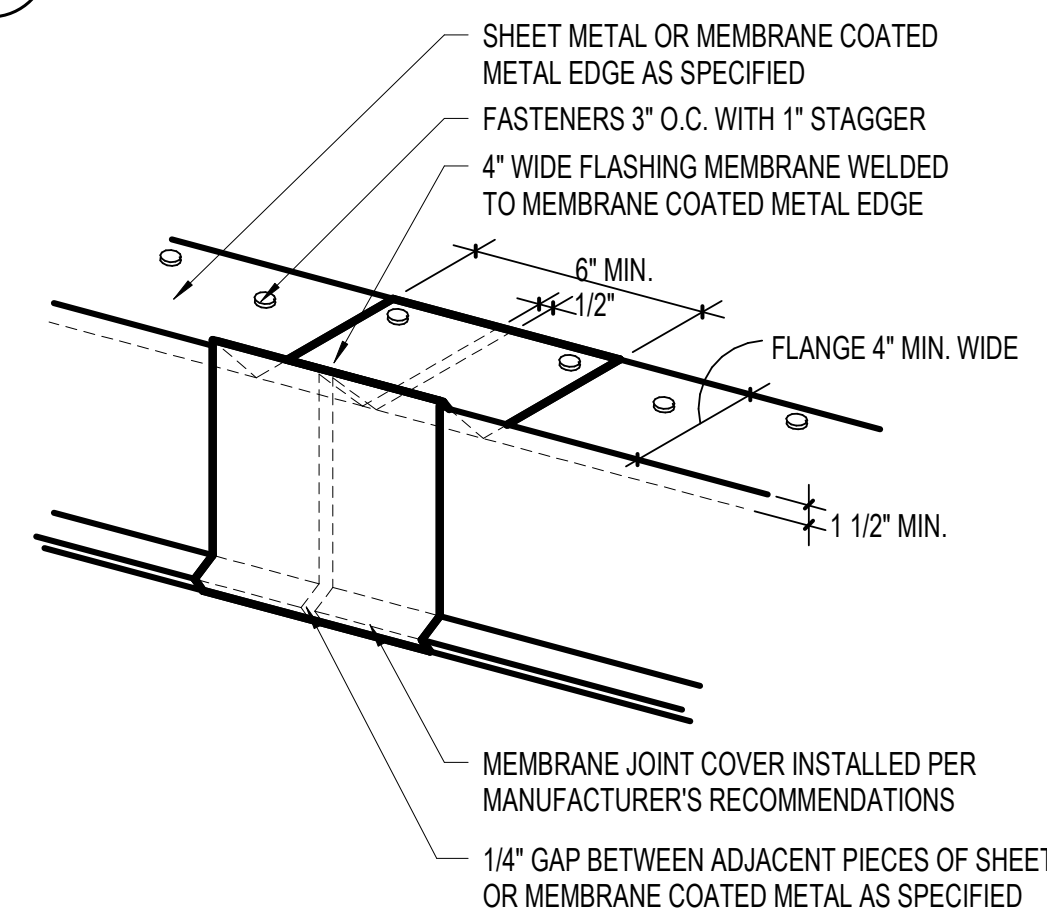
**D5 ROOFING (METAL) - PLUMBING STACK**  
A122 1 1/2" = 1'-0"



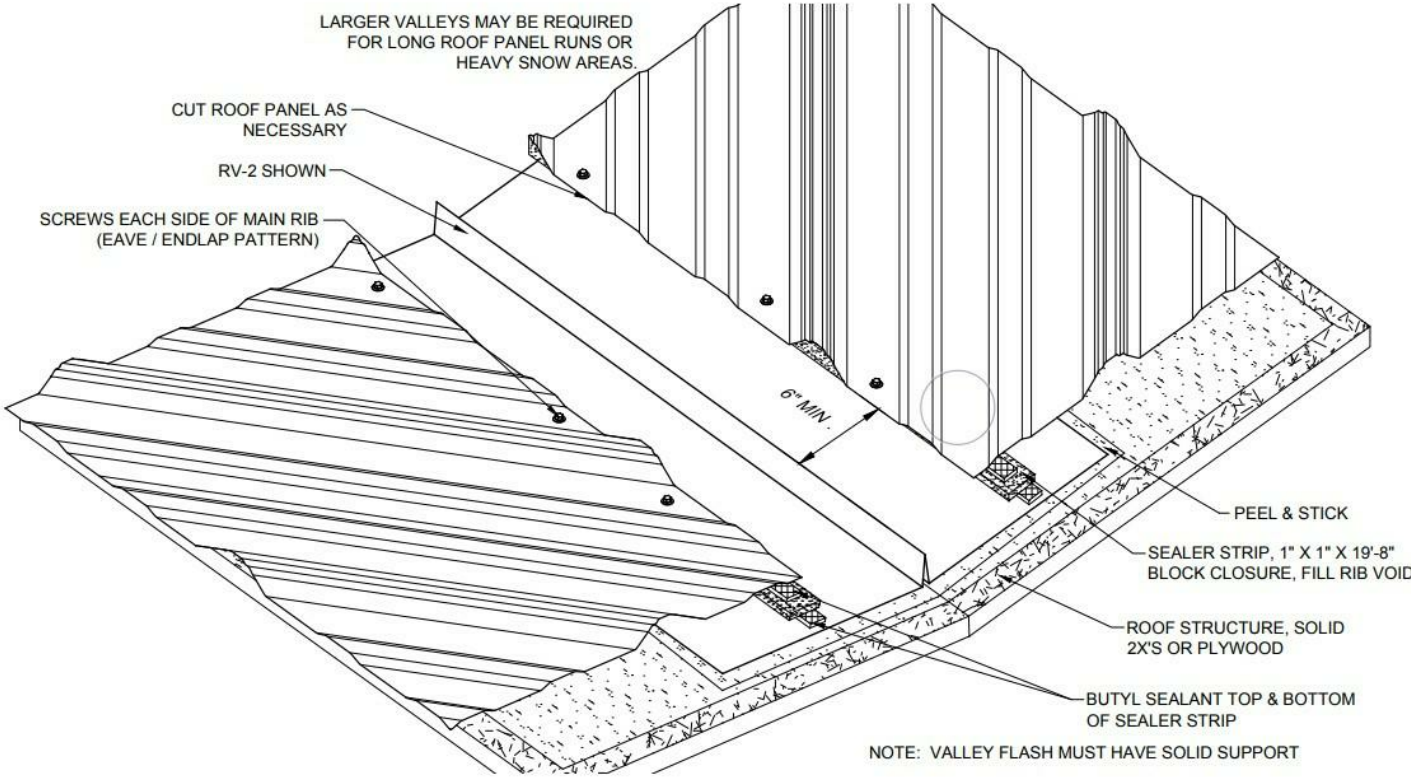
**B3 TUBULAR DAYLIGHTING DETAIL**  
A122 1" = 1'-0"



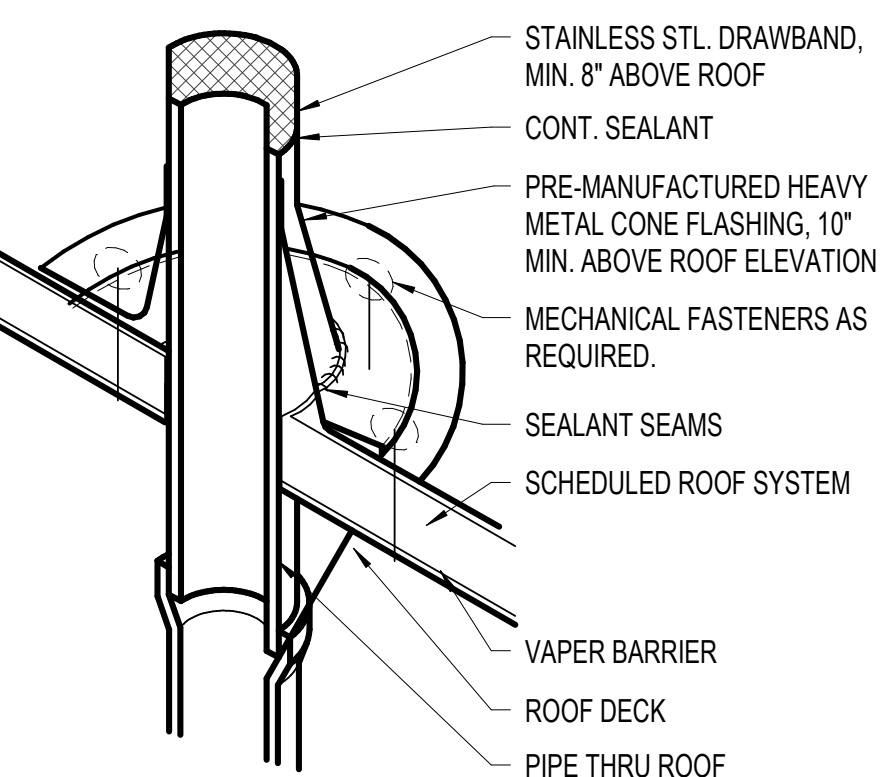
**C4 TYP. BASE FLASHING DETAIL**  
A122 3" = 1'-0"



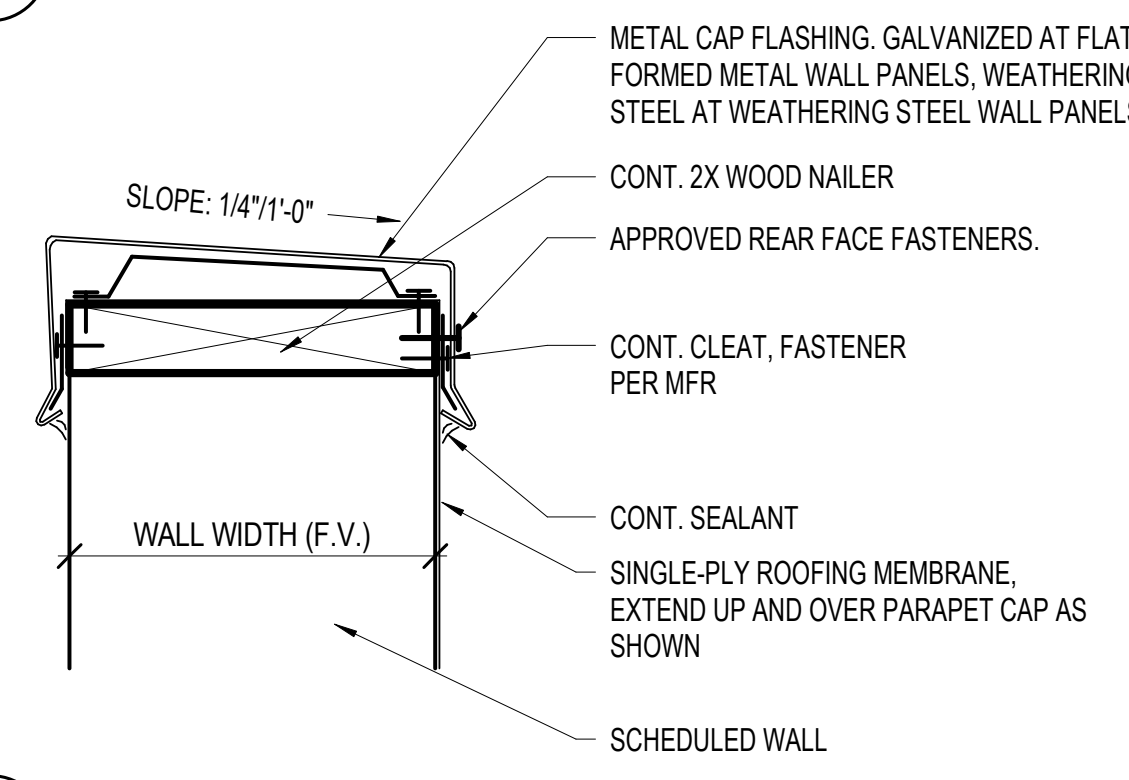
**C5 ROOFING (TP) - COVER PLATE**  
A122 1 1/2" = 1'-0"



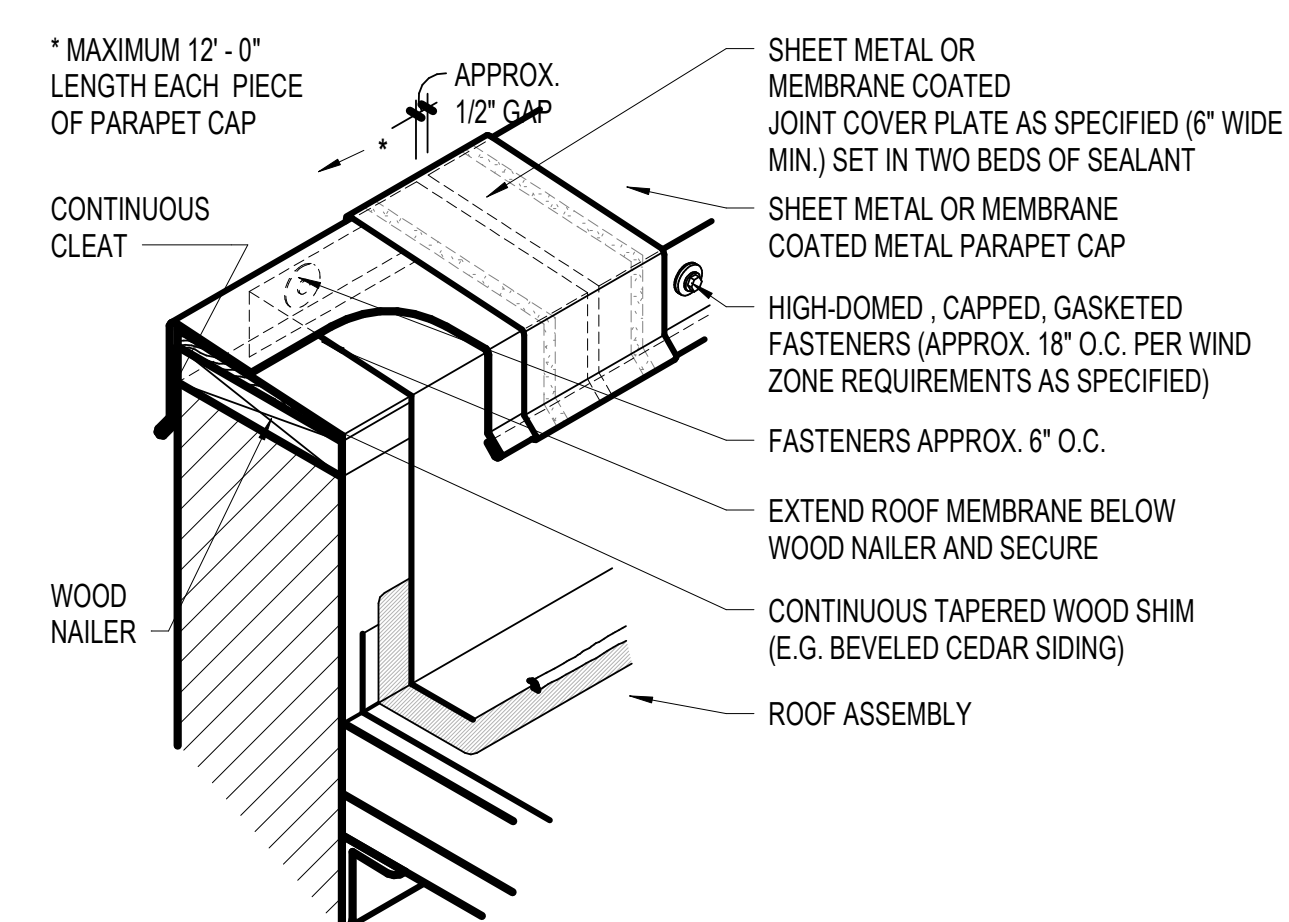
**A3 VALLEY DETAIL**  
A122 1 1/2" = 1'-0"



**A4 PIPE FLASHING DETAIL**  
A122 3" = 1'-0"



**B5 TYPICAL PARAPET CAP FLASHING DETAIL**  
A122 3" = 1'-0"



**A5 PARAPET DETAIL AT SINGLE PLY**  
A122 1 1/2" = 1'-0"

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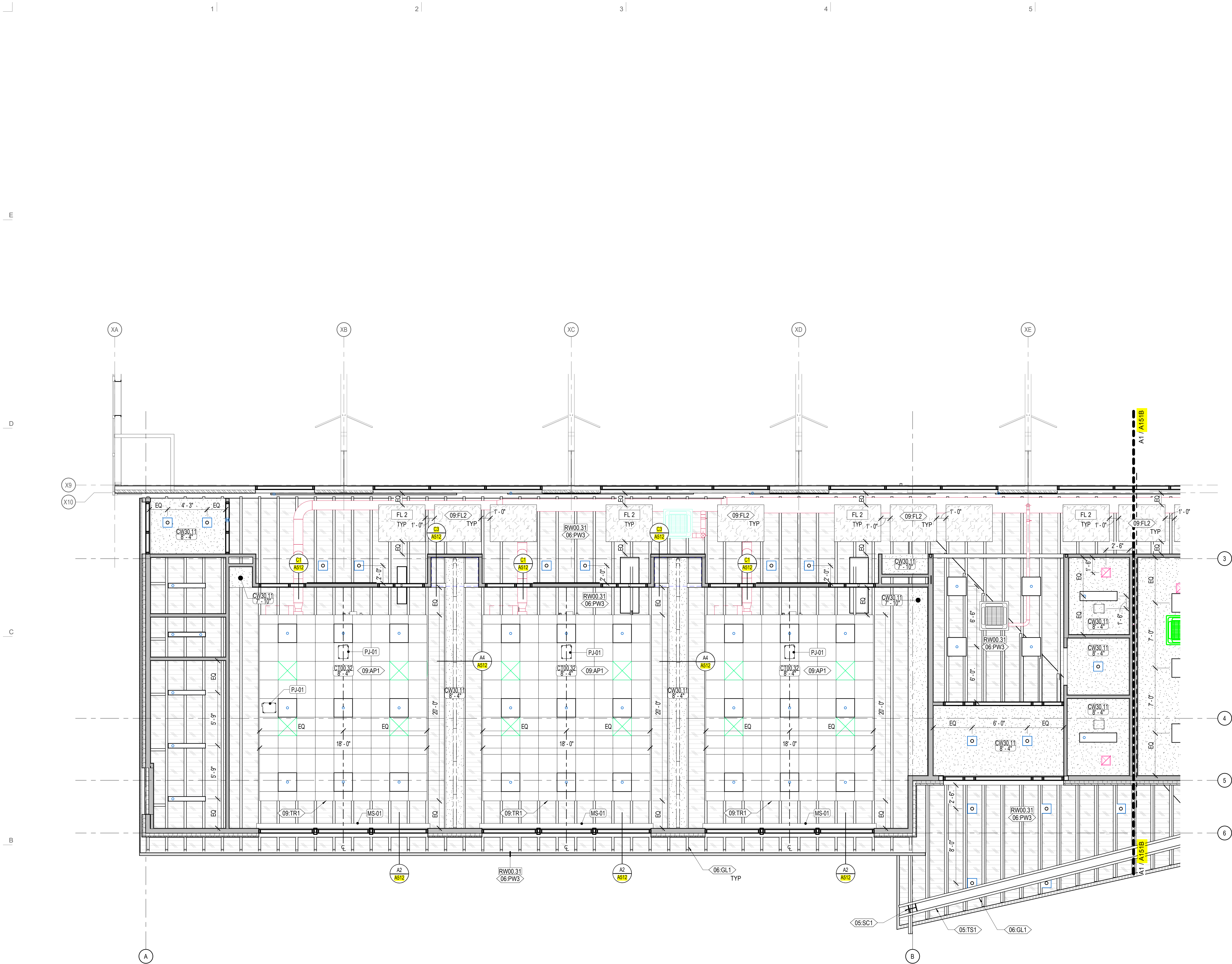
#### CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: KH  
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#### ROOF DETAILS

A122





GENERAL NOTE -  
REFLECTED CEILING PLAN

- A. AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT
- B. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHTS OR FEATURES
- C. THE CEILING SYSTEM INSTALLED SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015 EDITION
- D. PROVIDE HEAVY-DUTY T-BAR GRID SYSTEM
- E. PERIMETER WALL ANGLE IS 7/8" WITH ARMSTRONG BERC-2 CLIP
- F. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH RIGID CEILINGS TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS
- G. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION
- H. 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
- I. REFER TO SHEET **A521** FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

- 05-SC1 GALVANIZED CUSTOM PAINTED STEEL COLUMN. COORDINATE WITH STRUCTURAL
- 05-TS1 GALVANIZED CUSTOM PAINTED TUBE STEEL BEAM. COORDINATE WITH STRUCTURAL
- 06-GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06-PW3 EXPOSED PLYWOOD ROOF/FLOOR SHEATHING. PROVIDE HIGHER GRADE PLYWOOD THIS LOCATION. REFER TO SPECIFICATIONS
- 09-AP1 LAY-IN ACOUSTICAL PANEL CEILING TO BE CENTERED ON WINDOW SYSTEM
- 09-FL2 FELT ACOUSTIC CEILING PANEL. PANEL TO BE CENTERED ON ADJACENT WINDOW PANEL AND SUSPENDED FROM ROOF DECK ABOVE. MATCH ROOF SLOPE. LOW EDGE OF PANEL TO BE 10'-0" A.F.F.
- 09-TR1 COORDINATE LOCATION OF MECHANICAL DIFFUSERS ALONG EDGE OF CEILING WITH CEILING PERIMETER TRIM. OMIT PERIMETER TRIM AT DIFFUSER LOCATIONS



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# Date Revision

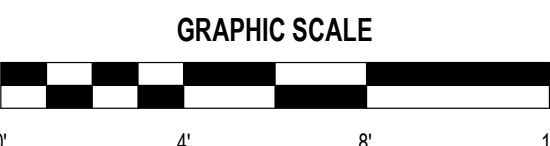
CONSTRUCTION  
DOCUMENTS

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DATE: 06.08.18

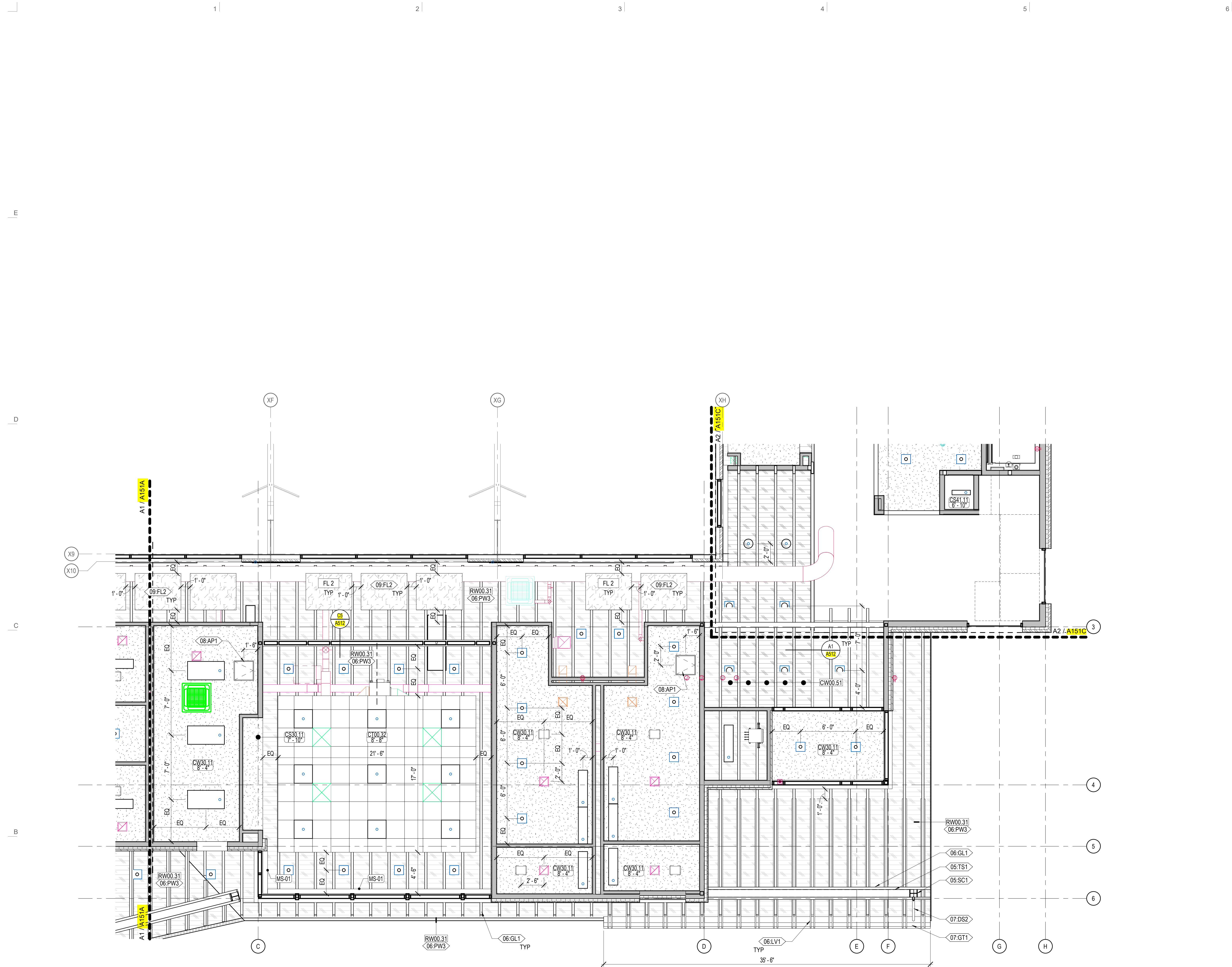
LEVEL 01  
REFLECTED  
CEILING PLAN -  
AREA 'A'

A151A

06/20/18 7:10:30 PM  
A151A LEVEL 01 REFLECTED CEILING PLAN - AREA 'A'  
1/4" = 1'-0"







GENERAL NOTE -  
REFLECTED CEILING PLAN

- A. AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT
- B. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHTS OR FEATURES
- C. THE CEILING SYSTEM INSTALLED SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015 EDITION
- D. PROVIDE HEAVY-DUTY T-BAR GRID SYSTEM
- E. PERIMETER WALL ANGLE IS 7/8\"/>
- F. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2\"/>
- G. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION
- H. 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
- I. REFER TO SHEET **A521** FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

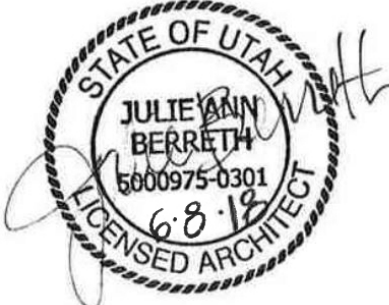
- 05-SC1 GALVANIZED CUSTOM PAINTED STEEL COLUMN. COORDINATE WITH STRUCTURAL
- 05-TS1 GALVANIZED CUSTOM PAINTED TUBE STEEL BEAM. COORDINATE WITH STRUCTURAL
- 06-GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06-LV1 1 3/4\"/>
- 06-PW3 EXPOSED PLYWOOD ROOF/FLOOR SHEATHING. PROVIDE HIGHER GRADE PLYWOOD THIS LOCATION. REFER TO SPECIFICATIONS
- 07-DS2 3\"/>
- 07-GT1 PRE-FINISHED CUSTOM ALUMINUM GUTTER AND DOWNSPOUT
- 08-AP1 CEILING ACCESS PANEL
- 09-FL2 FELT ACOUSTIC CEILING PANEL. PANEL TO BE CENTERED ON ADJACENT WINDOW PANEL AND SUSPENDED FROM ROOF DECK ABOVE. MATCH ROOF SLOPE. LOW EDGE OF PANEL TO BE 10'-0\"/>



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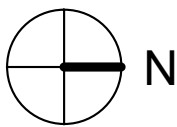
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DOCUMENTS

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DRAWN BY: JPA  
DATE: 06.08.18

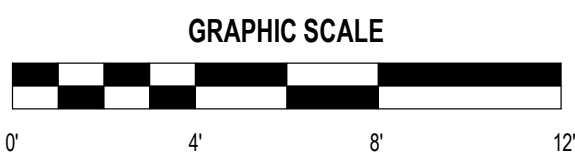
LEVEL 01  
REFLECTED  
CEILING PLAN -  
AREA 'B'

A151B

06/20/18 7:10:34 PM

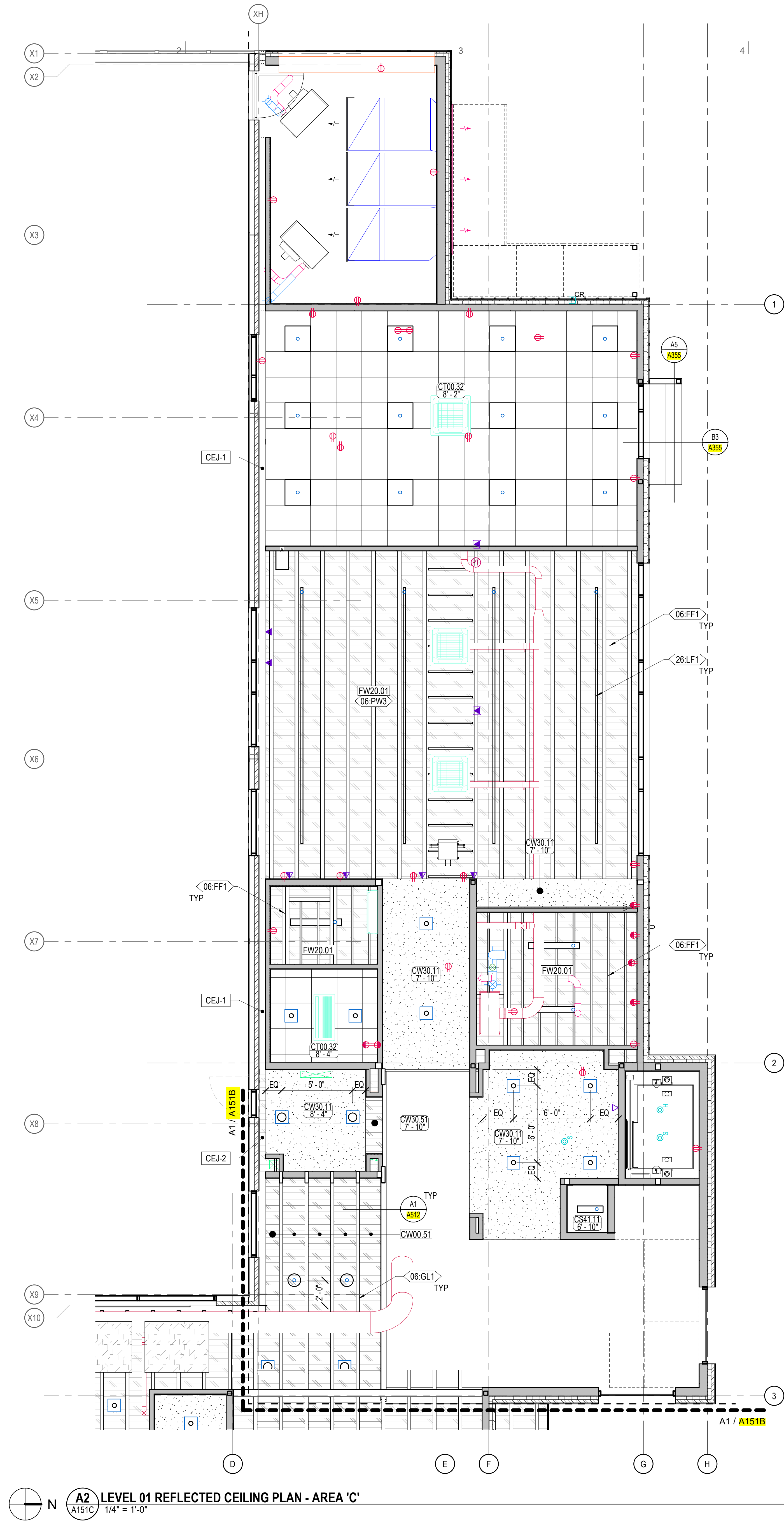


**A1** LEVEL 01 REFLECTED CEILING PLAN - AREA 'B'  
A151B 1/4\"/>





08/20/18 7:10:40 PM



GENERAL NOTE -  
REFLECTED CEILING PLAN

- A. AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT
- B. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHTS OR FEATURES
- C. THE CEILING SYSTEM INSTALLED SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015 EDITION
- D. PROVIDE HEAVY-DUTY T-BAR GRID SYSTEM
- E. PERIMETER WALL ANGLE IS 7/8" WITH ARMSTRONG BERC-2 CLIP
- F. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH RIGID CEILINGS TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS
- G. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION
- H. 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
- I. REFER TO SHEET A521 FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

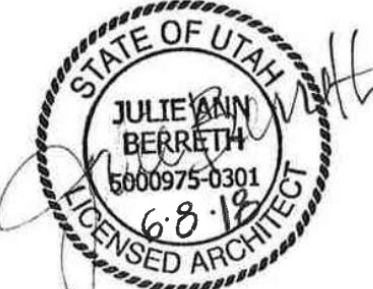
- 06:FF1 FLOOR FRAMING, COORDINATE WITH STRUCTURAL
- 06:GL1 GLUED-LAMINATED WOOD JOIST/BEAM, COORDINATE WITH STRUCTURAL
- 06:PW3 EXPOSED PLYWOOD ROOF/FLOOR SHEATHING, PROVIDE HIGHER GRADE PLYWOOD THIS LOCATION. REFER TO SPECIFICATIONS
- 26:LF1 LIGHT FIXTURE, COORDINATE WITH ELECTRICAL



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CONSTRUCTION  
DOCUMENTS

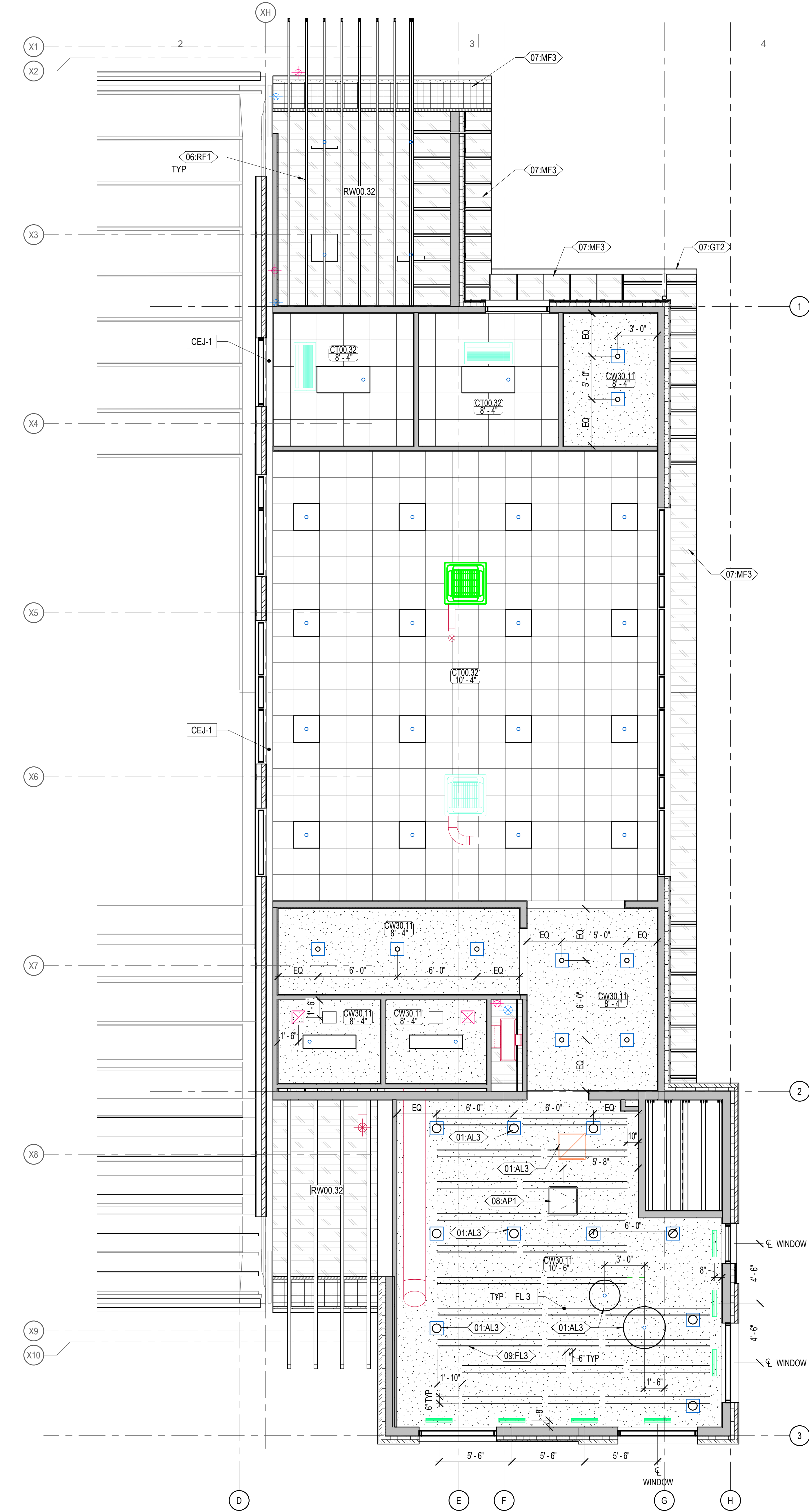
NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

LEVEL 01  
REFLECTED  
CEILING PLAN -  
AREA 'C'

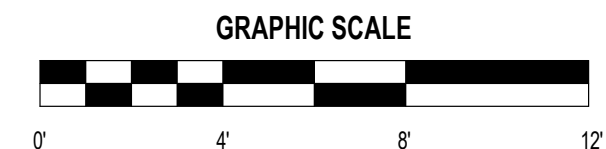
A151C



08/20/18 7:10:44 PM



**A2** LEVEL 02 REFLECTED CEILING PLAN - AREA 'C'  
A152C 1/4" = 1'-0"



### GENERAL NOTE - REFLECTED CEILING PLAN

- AT SOFFIT CONDITIONS, ALL LIGHTING FIXTURES/CONFIGURATION OF FIXTURES TO BE CENTERED IN SOFFIT, U.N.O. COORDINATE WITH ARCHITECT
- CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHTS OR FEATURES
- THE CEILING SYSTEM INSTALLED SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015 EDITION
- PROVIDE HEAVY-DUTY T-BAR GRID SYSTEM
- PERIMETER WALL ANGLE IS 7/8" WITH ARMSTRONG BERC-2 CLIP
- SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH RIGID CEILINGS TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION
- 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
- REFER TO SHEET **A521** FOR EXPANSION JOINT SCHEDULE AND DETAILS

### KEYNOTE LEGEND

- 01:AL3 CENTER BETWEEN ACOUSTIC BAFFLES (TYP)  
06:RF1 ROOF FRAMING, COORDINATE WITH STRUCTURAL  
07:GT2 PRE-FINISHED METAL GUTTER AND DOWNSPOUT  
07:MF3 PRE-FINISHED METAL FASCIA AND SOFFIT  
08:AP1 CEILING ACCESS PANEL  
09:FL3 FELT ACOUSTIC BAFFLE



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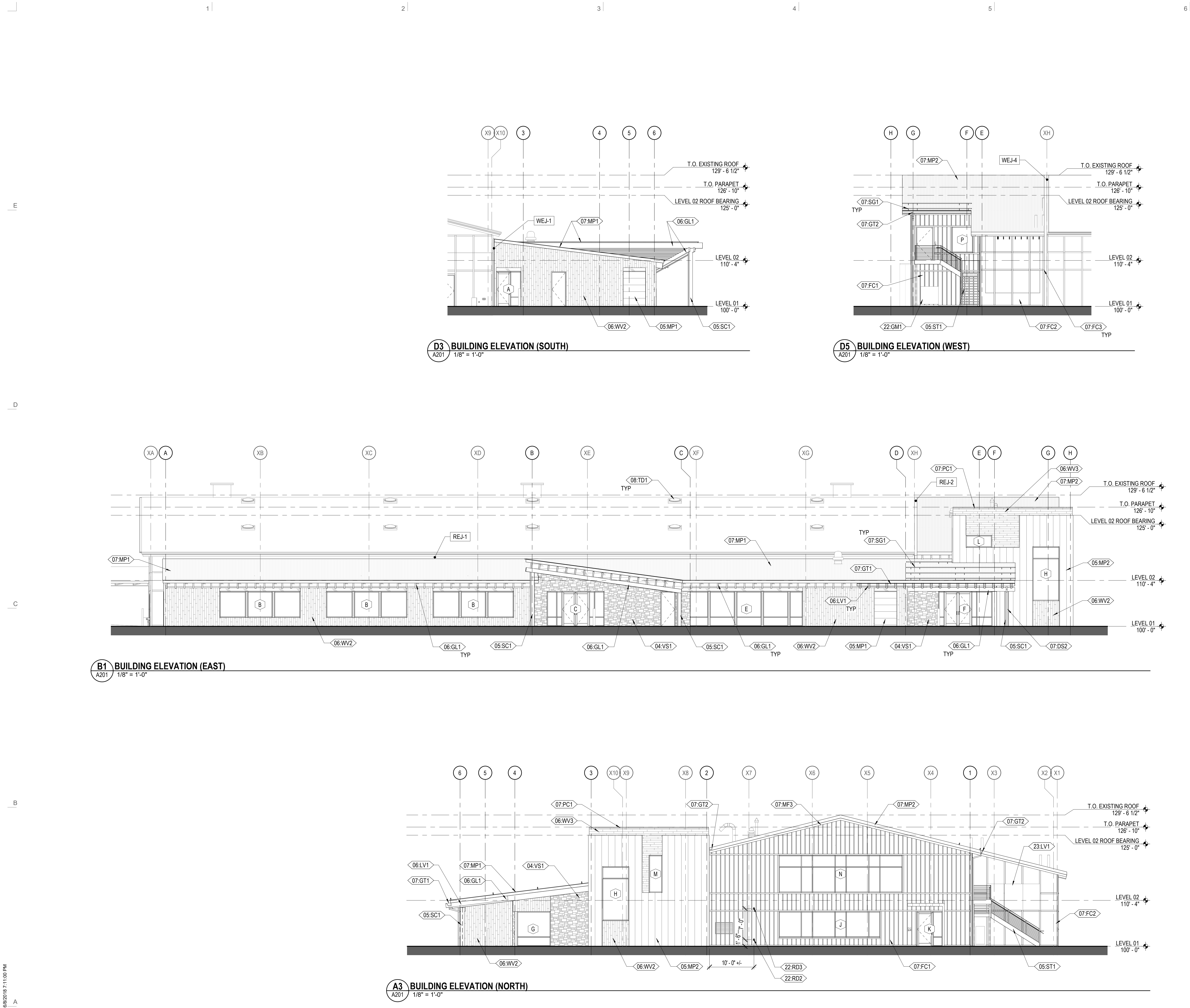
### CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
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### LEVEL 02 REFLECTED CEILING PLAN - AREA 'C'

**A152C**





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# Date Revision

## CONSTRUCTION DOCUMENTS

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## BUILDING ELEVATIONS

A201



1

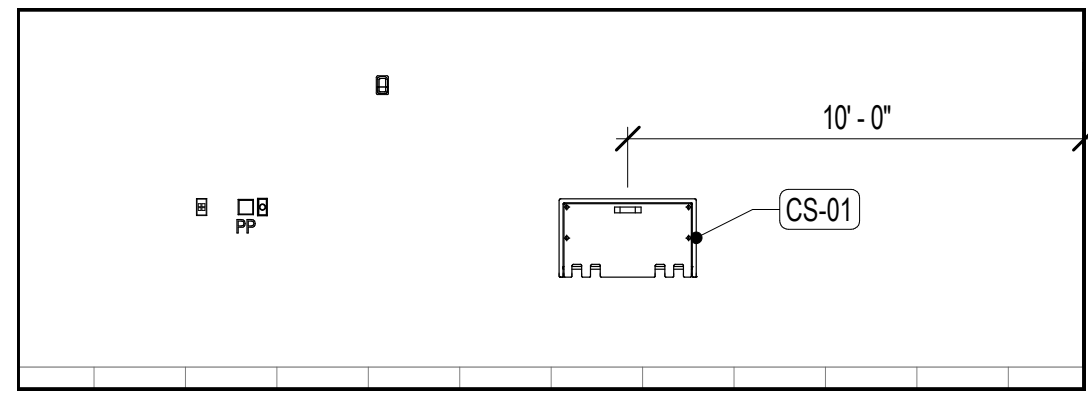
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3

4

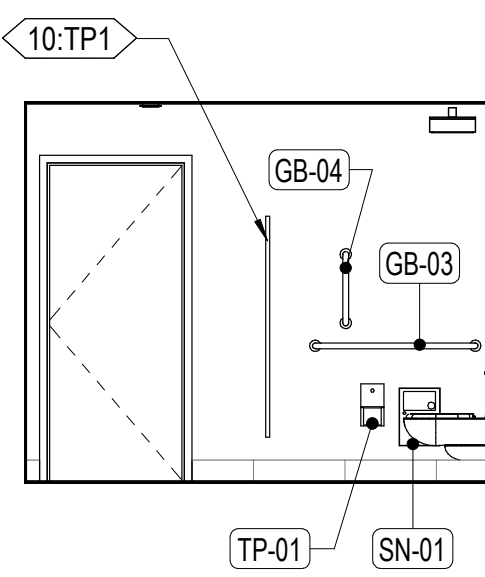
5

6

**E1 116 MEN'S RR - NORTH**

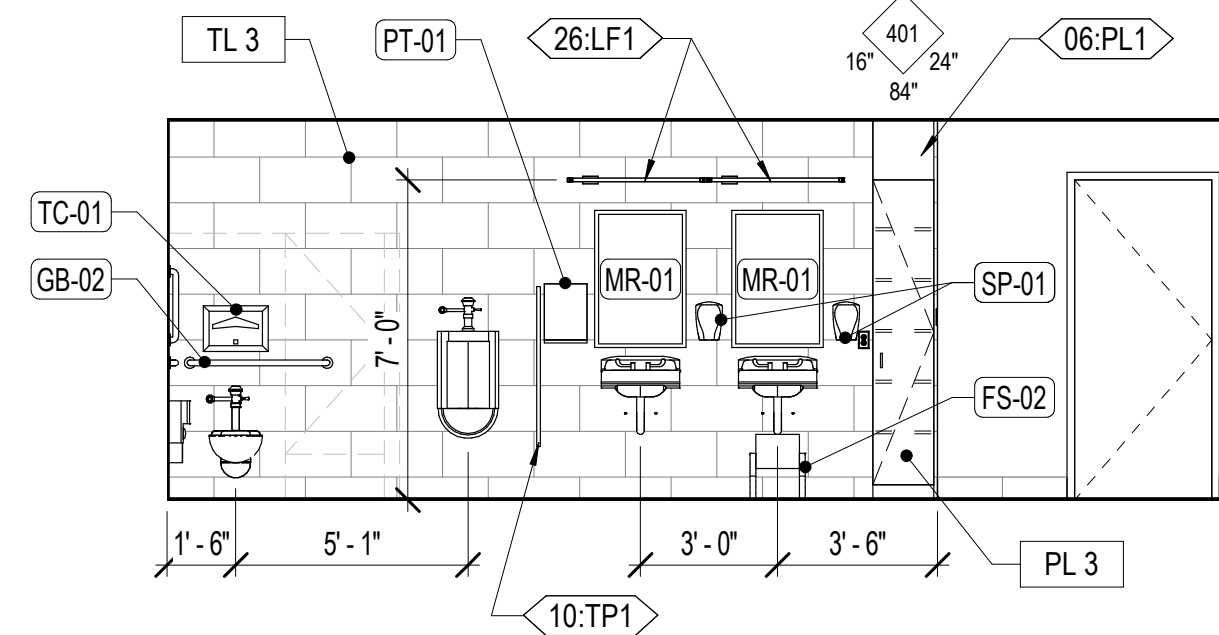
A251 1/4" = 1'-0"

117 WOMEN'S RR - OPP

**E3 116 MEN'S RR - EAST**

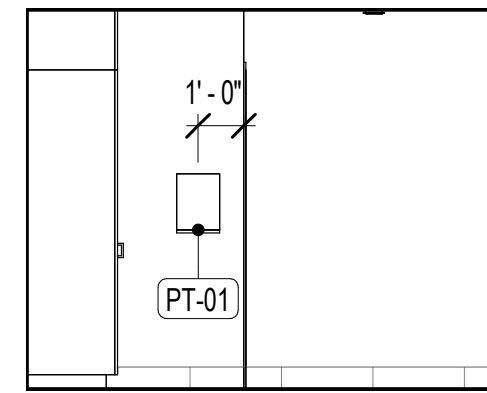
A251 1/4" = 1'-0"

117 WOMEN'S RR - OPP

**E4 116 MEN'S RR - SOUTH**

A251 1/4" = 1'-0"

117 WOMEN'S RR - OPP, SIM

**E6 116 MEN'S RR - WEST**

A251 1/4" = 1'-0"

117 WOMEN'S RR - OPP

**GENERAL NOTE -  
INTERIOR ELEVATION**

- A. ENSURE THAT ALL REQUIRED CLEARANCES ARE MAINTAINED  
OTHER REQUIREMENTS ARE MAINTAINED  
PURSUANT TO ADAAG AND ANSI A117.1. REFER  
TO SHEET **G01** FOR GENERAL GUIDANCE ON  
COMMON MOUNTING HEIGHTS
- B. PROVIDE REQUIRED BACKING AND/OR SUPPORT  
FOR ALL WALL MOUNTED FIXTURES, EQUIPMENT,  
CASEWORK AND/OR SYSTEMS FURNITURE PER  
MANUFACTURER'S RECOMMENDATIONS
- C. ON ALL EXPOSED CABINET SIDES, INCLUDING  
KNEE OPENINGS, PROVIDE FINISHED FACE TO  
MATCH CABINET FRONTS. PROVIDE  
SIDESPLASHES WHENEVER COUNTERTOPS ARE  
ADJACENT TO WALLS
- D. DIMENSIONS ARE TO FACE OF NEW FINISH OR  
CENTERLINE. DO NOT SCALE DRAWINGS
- E. EDGE OF CABINET TO BE FLUSH WITH  
COUNTERTOP WHERE EQUIPMENT IS LOCATED  
ADJACENTLY
- F. OUTLETS ABOVE COUNTER TO BE PLACED 10" TO  
CENTERLINE OF OUTLET ABOVE COUNTERTOP,  
TYPICAL U.N.O. COORDINATE WITH ELECTRICAL  
PROVIDE GROMMETS AT ALL COUNTERTOP  
WORKSTATIONS. COORDINATE FINAL LOCATIONS  
WITH OWNER
- H. REFER TO SHEET **A52** FOR EXPANSION JOINT  
SCHEDULE AND DETAILS

**KEYNOTE LEGEND**

- 05.RL1 METAL RAILING WITH WOOD TOP RAIL  
06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM  
COORDINATE WITH STRUCTURAL  
06.GL2 GLUED-LAMINATED WOOD COLUMN.  
COORDINATE WITH STRUCTURAL  
06.PL1 PLASTIC LAMINATE CLOSURE PANEL. SCRIBE  
AT WALL AND/OR CEILING  
06.ST1 WOOD STAIR  
06.WB1 1X WOOD BASE TRIM WITH EASED EDGE.  
FINISH TO MATCH PLYWOOD VENEER  
06.WV4 FASTEN PLYWOOD VENEER PANEL TO WALL  
AT 16" O.C. VERTICAL. FASTENERS TO ALIGN  
BOTH VERTICALLY AND HORIZONTALLY.  
COORDINATE WITH ARCHITECT  
09.FL3 FELT ACOUSTIC BAFFLE  
09.TF1 TILE WAINSCOT. REFER TO FINISH SCHEDULE  
10.TP1 TOILET PARTITION  
22.DF1 DRINKING FOUNTAIN. COORDINATE WITH  
PLUMBING  
23.WH1 WALL HEATER. COORDINATE WITH  
MECHANICAL  
26.LF1 LIGHT FIXTURE. COORDINATE WITH  
ELECTRICAL



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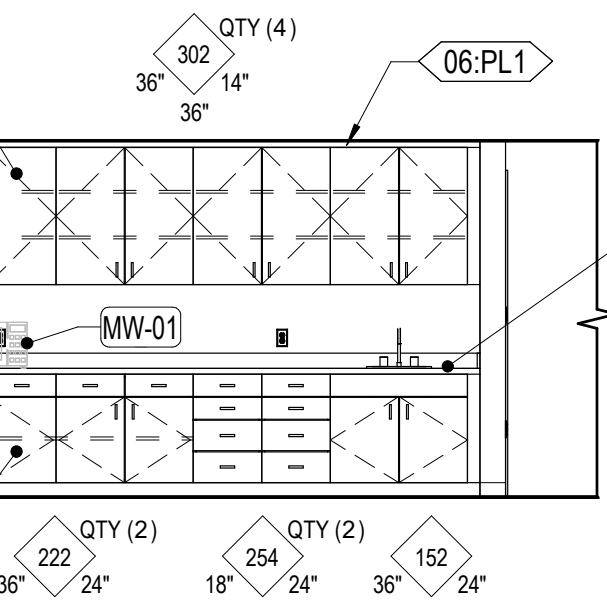
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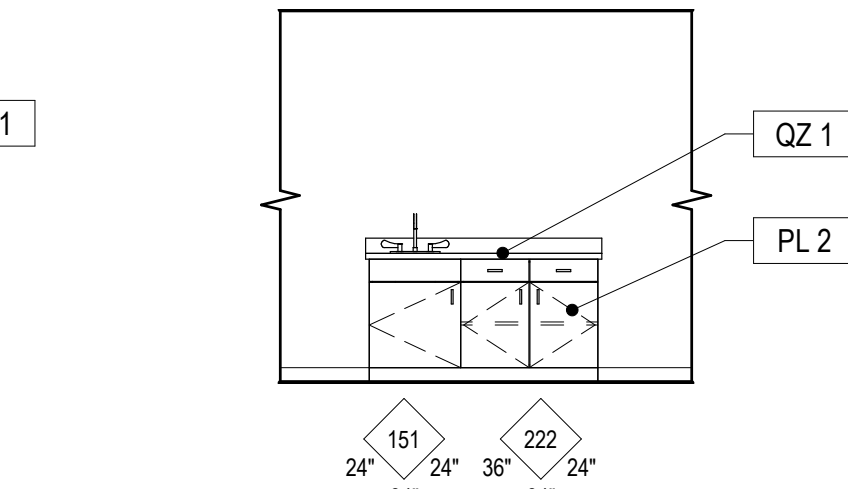
# Date Revision

**CONSTRUCTION  
DOCUMENTS**

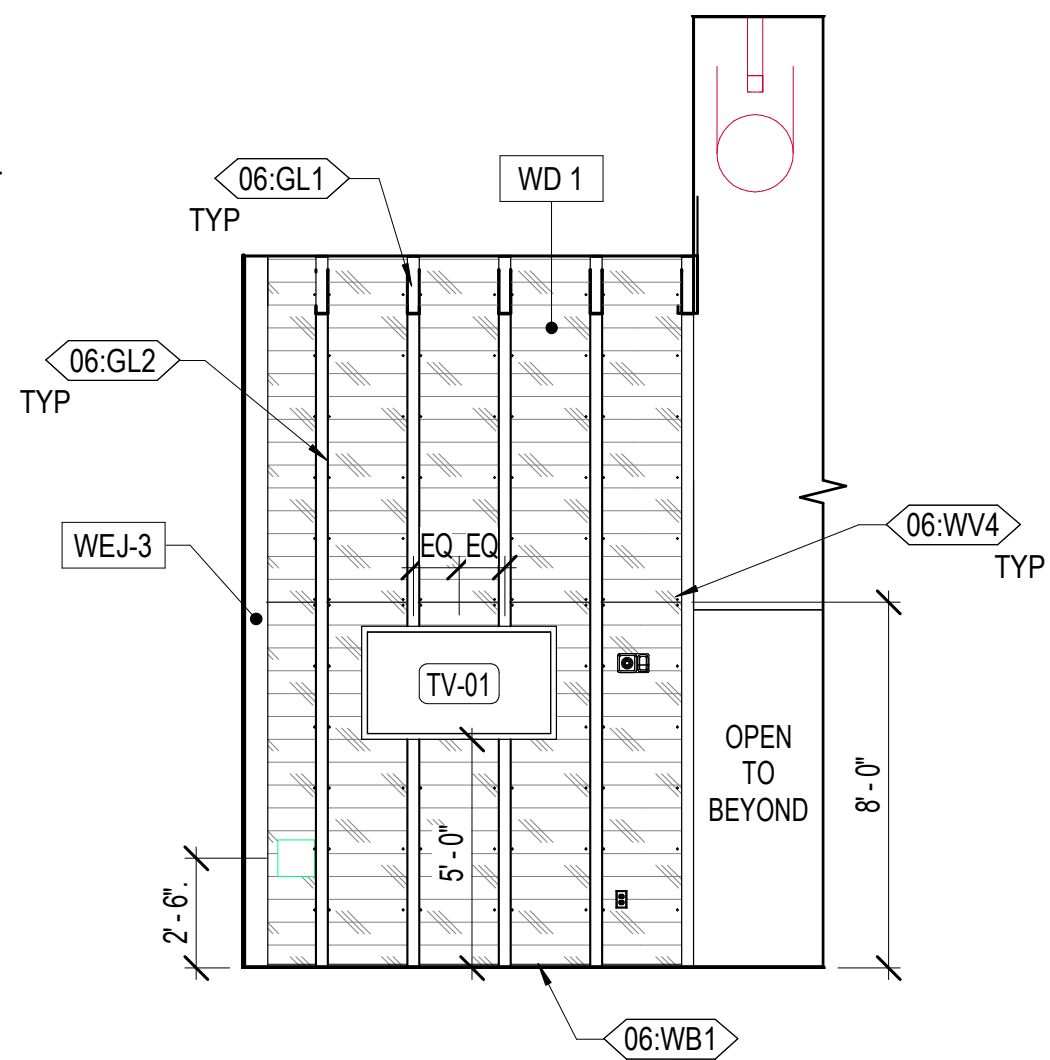
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DRAWN BY: JPA  
DATE: 06.08.18

**INTERIOR  
ELEVATIONS****A251****D1 111 VIEWING/LOUNGE - EAST**

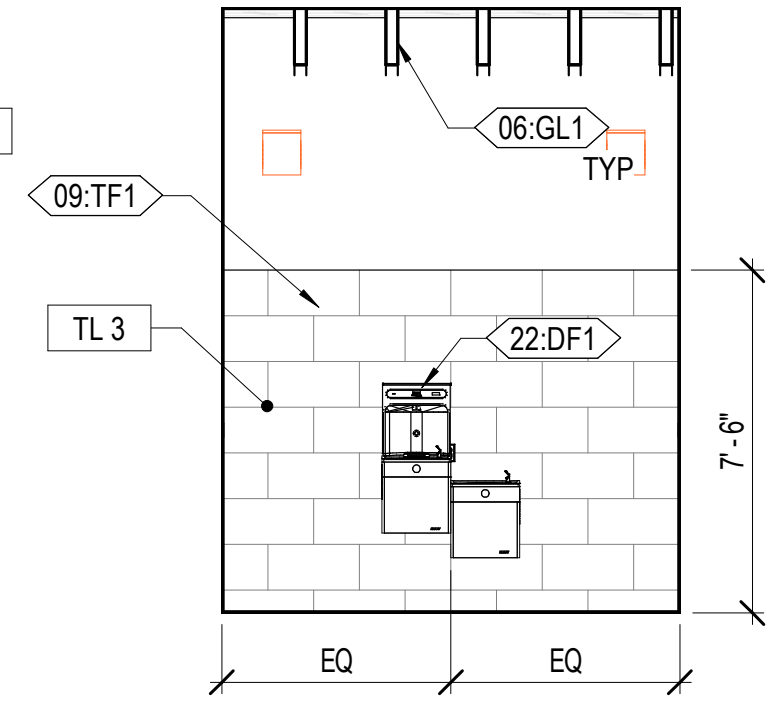
A251 1/4" = 1'-0"

**D2 112 PHYSICAL THERAPY - EAST**

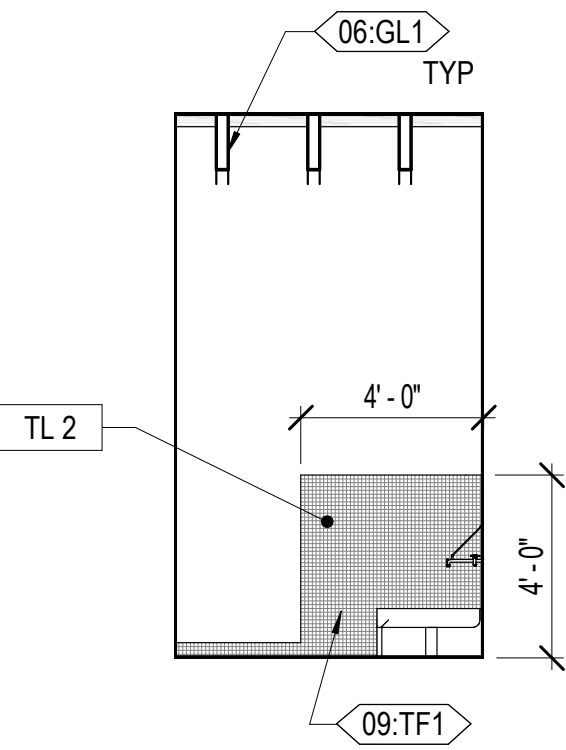
A251 1/4" = 1'-0"

**D4 115 CORRIDOR - EAST**

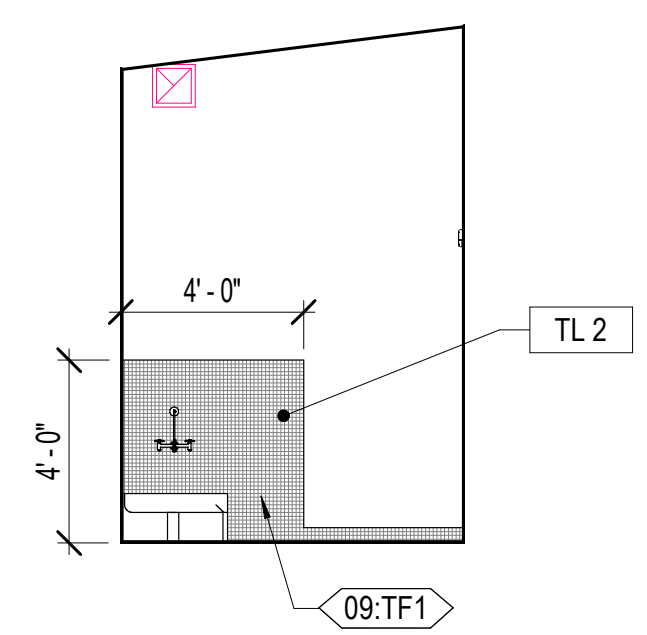
A251 1/4" = 1'-0"

**D5 115 CORRIDOR - EAST (2)**

A251 1/4" = 1'-0"

**C1 103 HK - EAST**

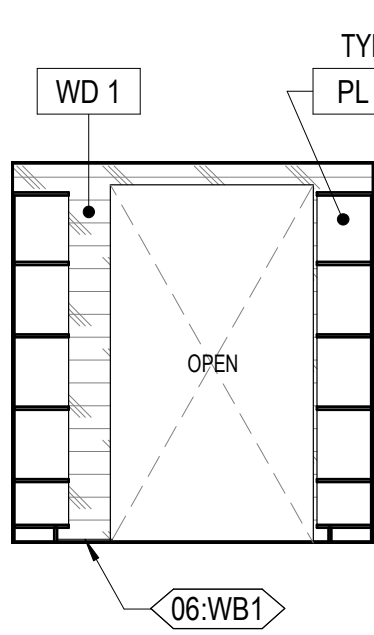
A251 1/4" = 1'-0"

**C2 103 HK - SOUTH**

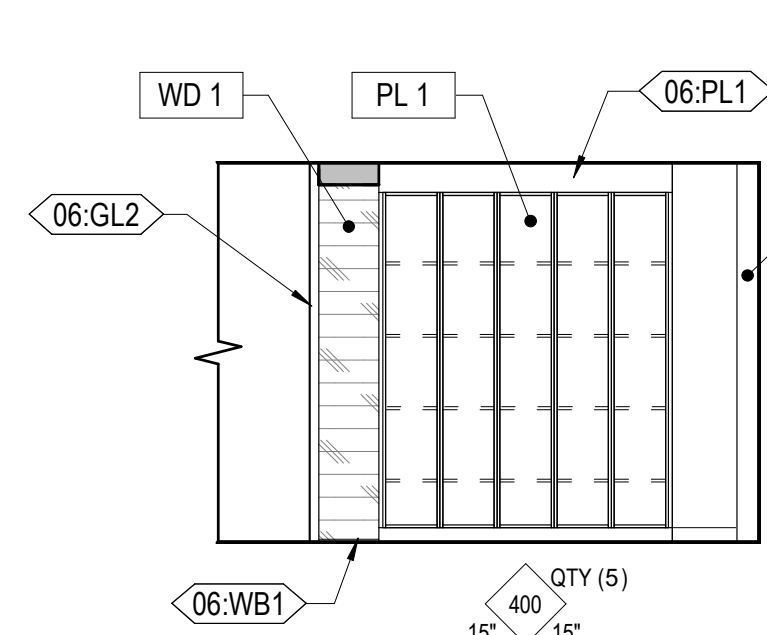
A251 1/4" = 1'-0"

**C3 106 CHECK-IN - WEST**

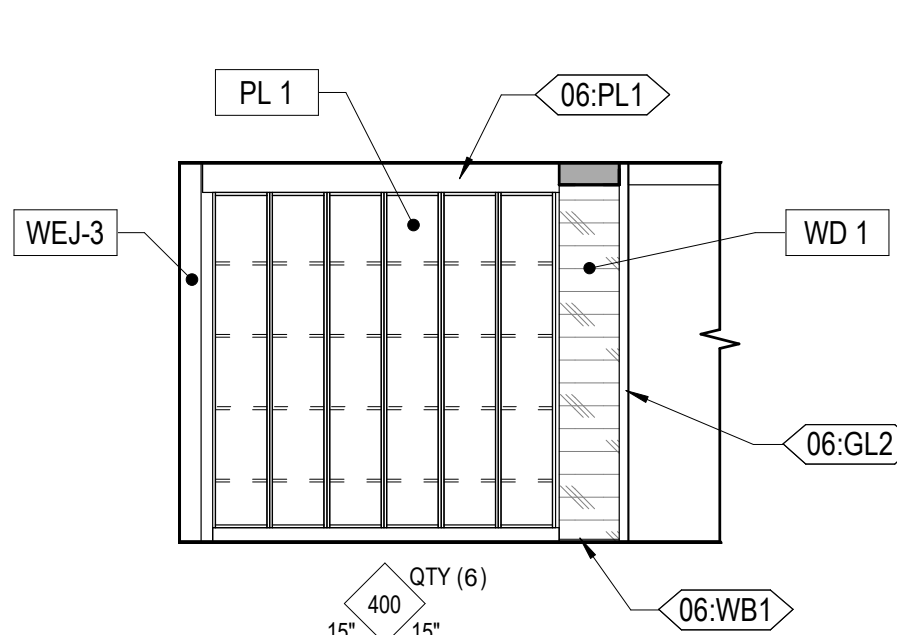
A251 1/4" = 1'-0"

**C4 107 VOLUNTEER - NORTH**

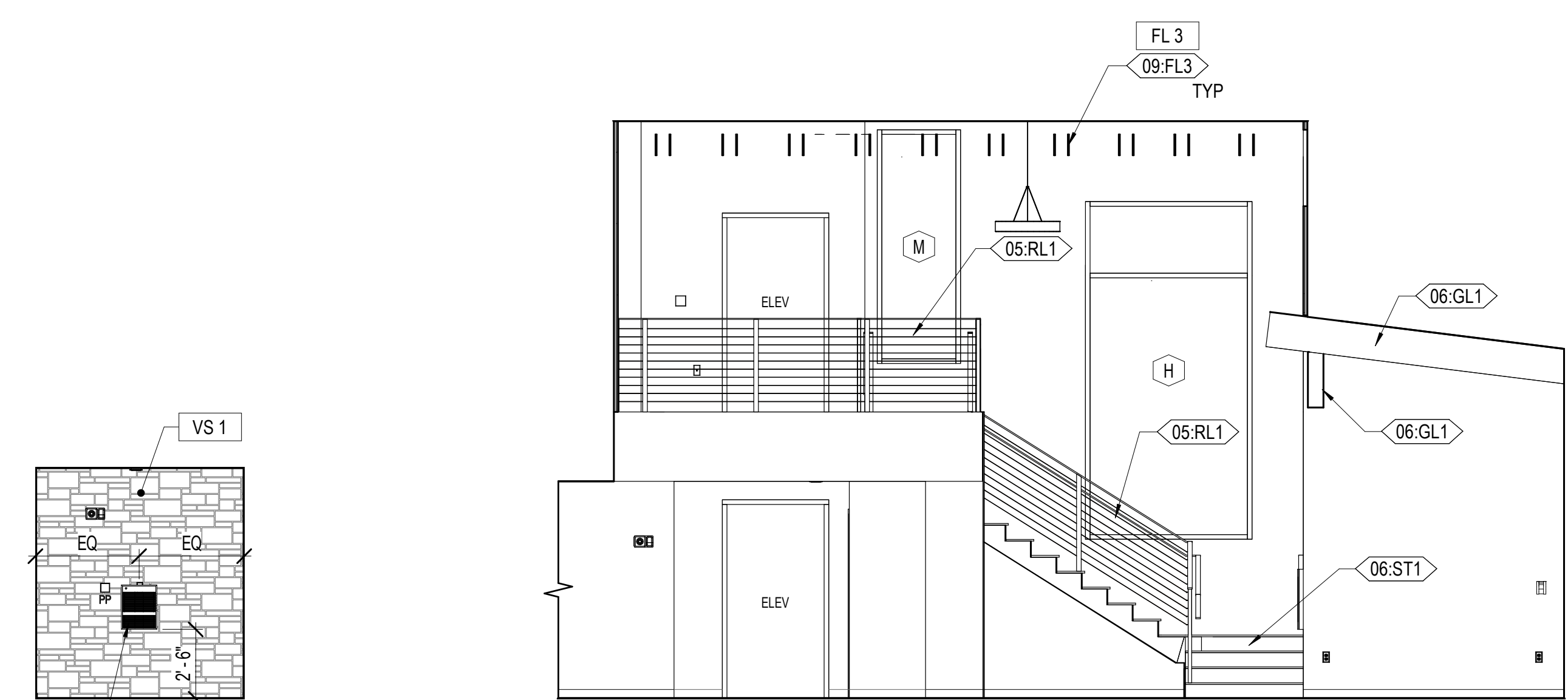
A251 1/4" = 1'-0"

**C5 107 VOLUNTEER - EAST**

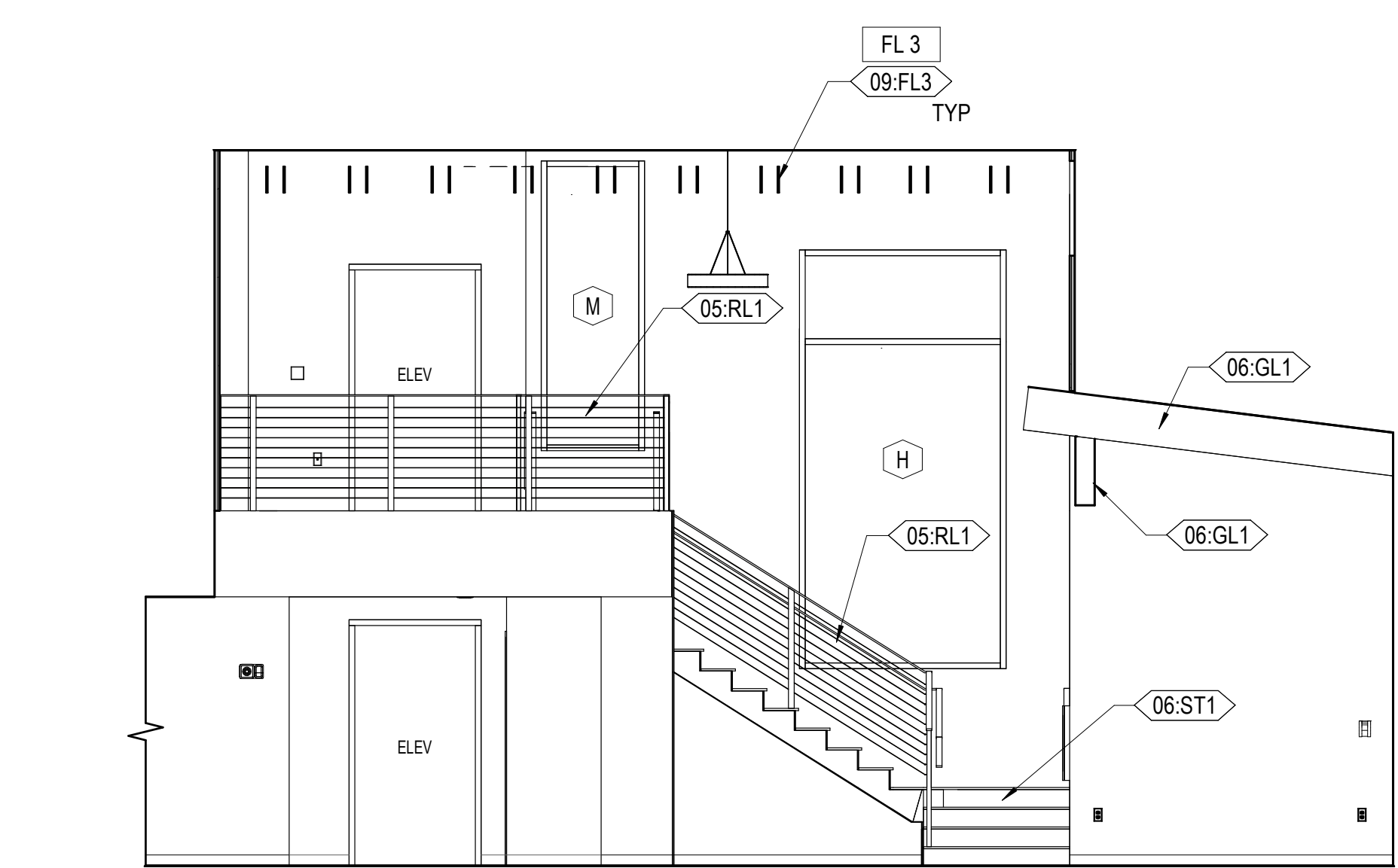
A251 1/4" = 1'-0"

**C6 107 VOLUNTEER - WEST**

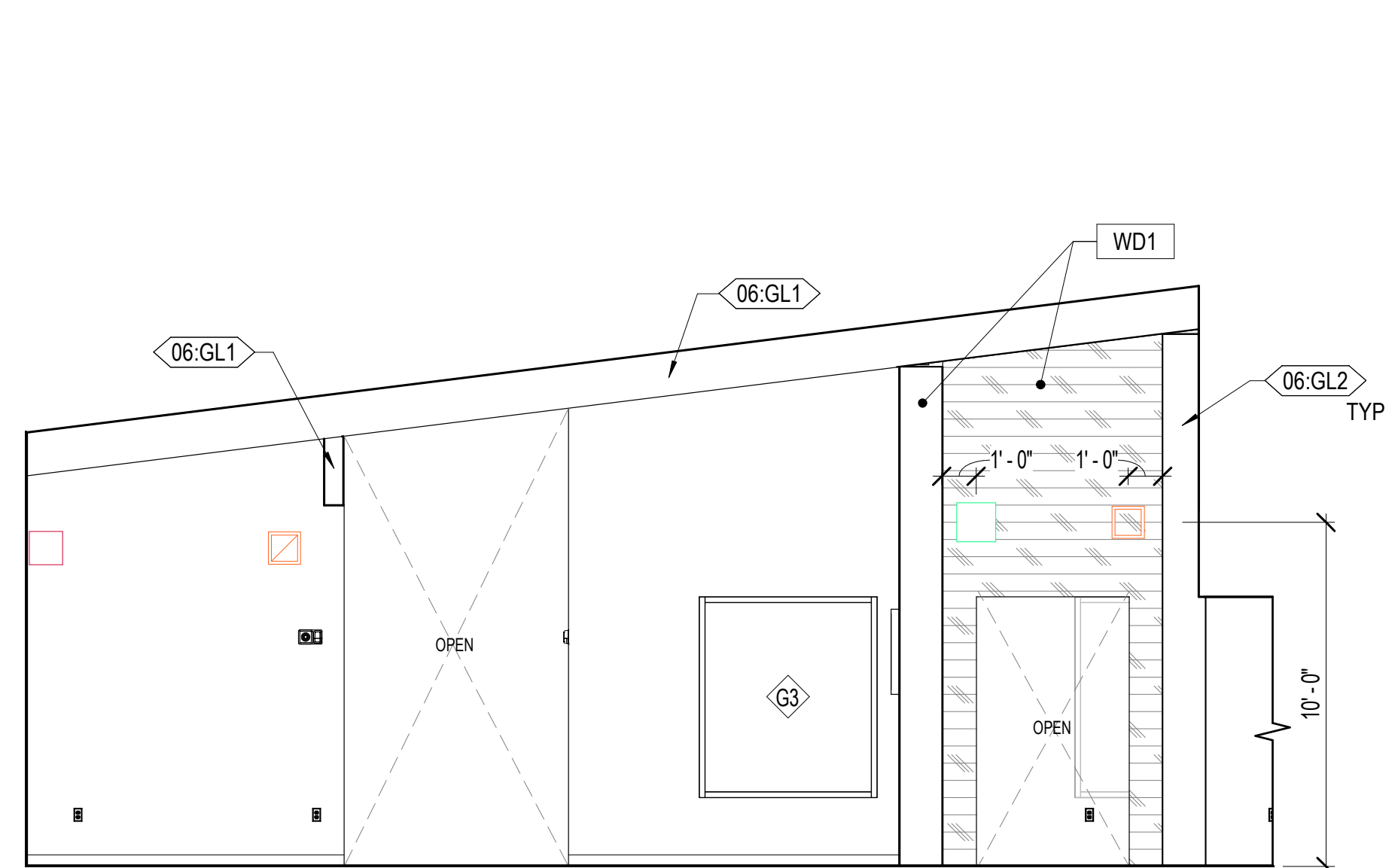
A251 1/4" = 1'-0"

**A1 101 VESTIBULE - SOUTH**

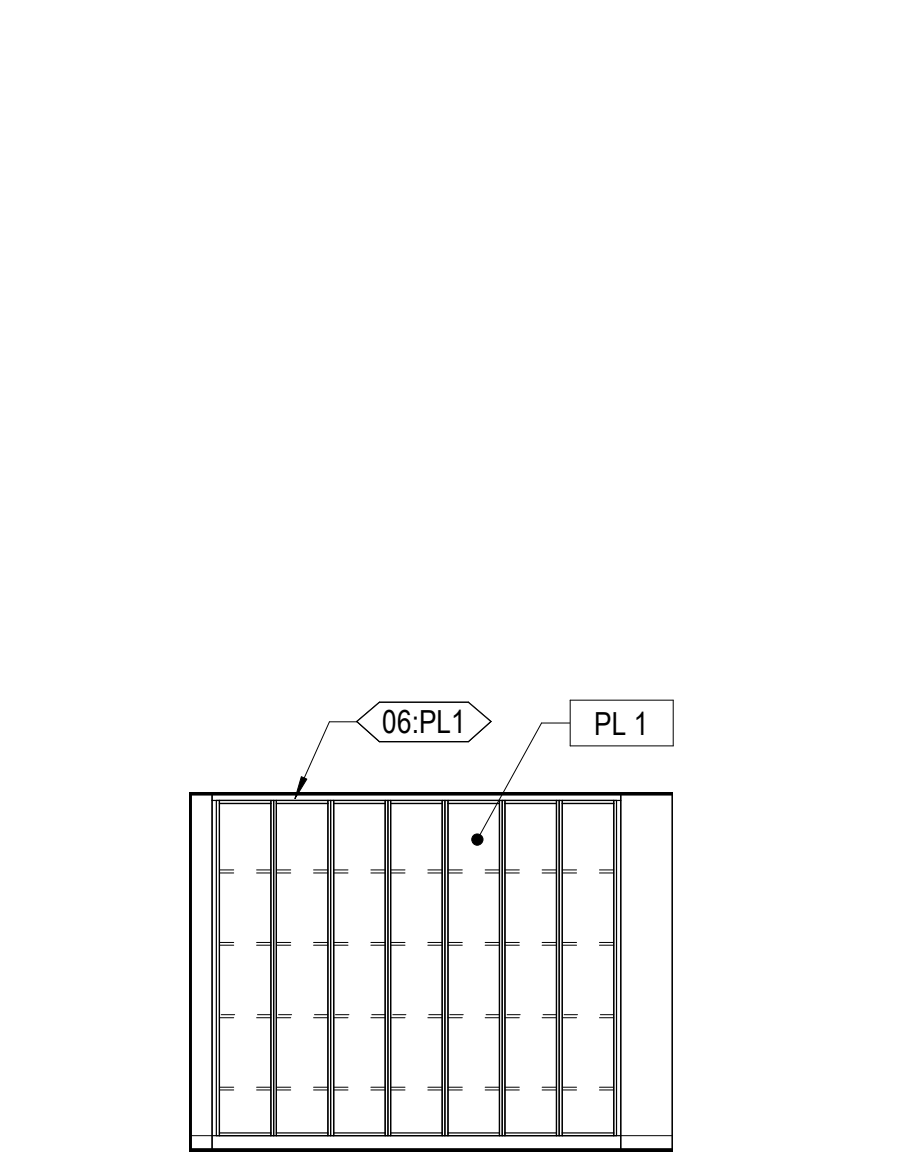
A251 1/4" = 1'-0"

**A2 102 LOBBY - NORTH**

A251 1/4" = 1'-0"

**A4 102 LOBBY - SOUTH**

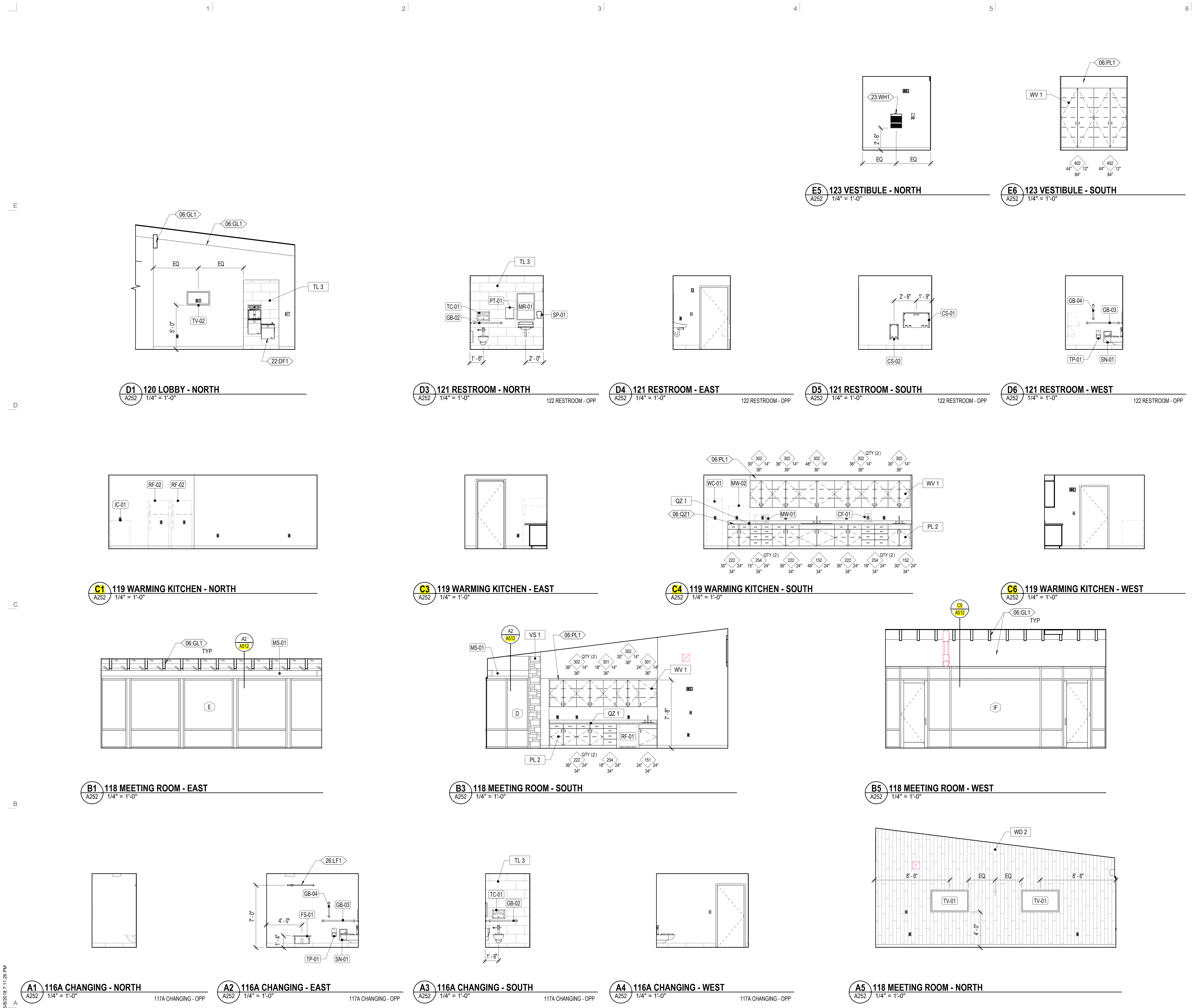
A251 1/4" = 1'-0"

**A6 102 LOBBY - WEST**

A251 1/4" = 1'-0"

06/20/18 7:11:14 PM

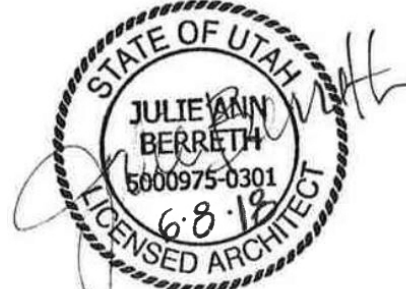




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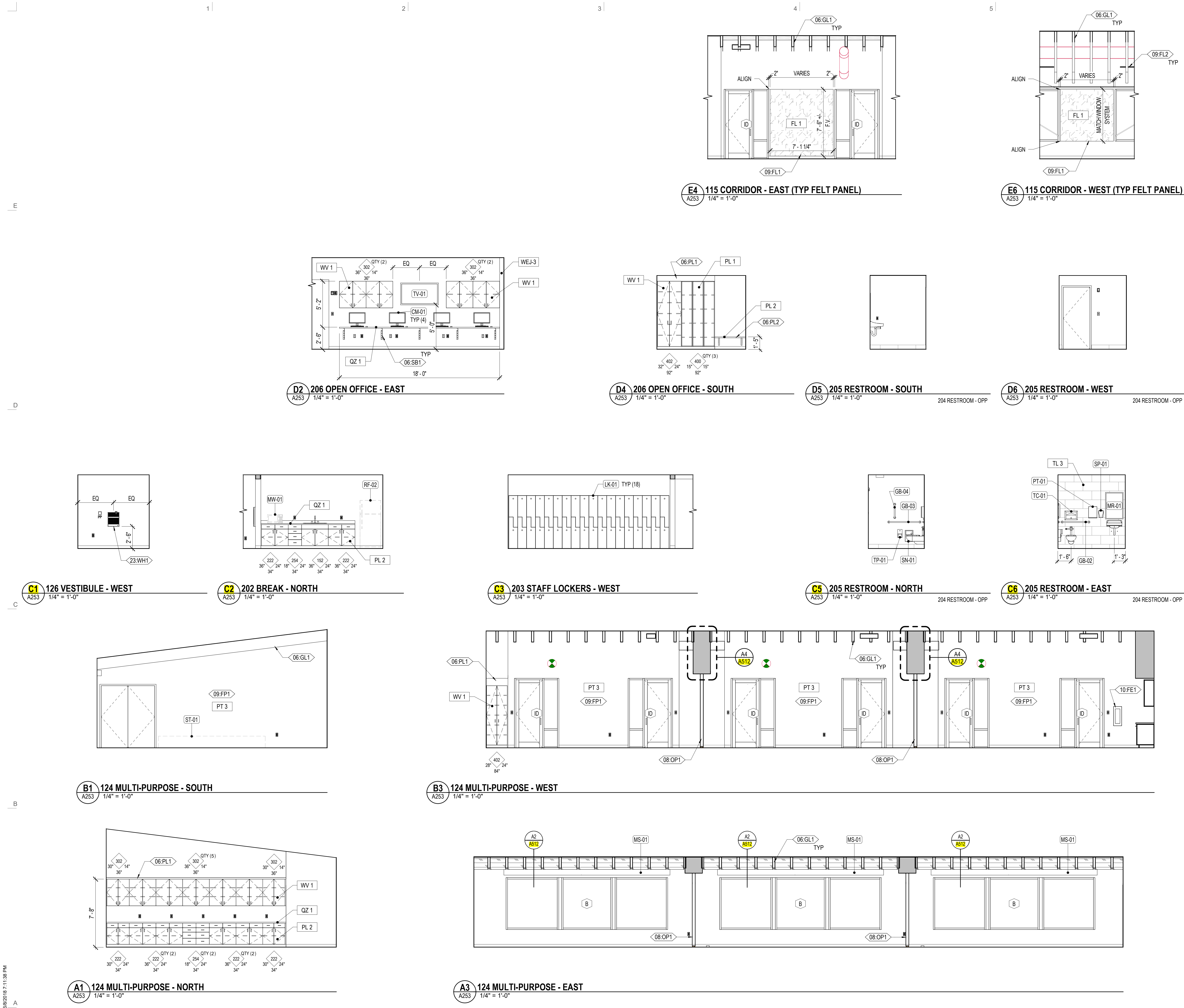
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## INTERIOR ELEVATIONS

A252





# GENERAL NOTE - INTERIOR ELEVATION

- A. ENSURE THAT ALL REQUIRED CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. REFER TO SHEET 0101 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS
- B. PROVIDE REQUIRED BACKING AND/OR SUPPORT FOR ALL WALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK AND/OR SYSTEMS FURNITURE PER MANUFACTURER'S RECOMMENDATIONS
- C. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS
- D. DIMENSIONS ARE TO FACE OF NEW FINISH OR CENTERLINE. DO NOT SCALE DRAWINGS
- E. EDGE OF CABINET TO BE FLUSH WITH COUNTERTOP WHERE EQUIPMENT IS LOCATED ADJACENTLY
- F. OUTLETS ABOVE COUNTER TO BE PLACED 10" TO CENTERLINE OF OUTLET ABOVE COUNTERTOP, TYPICAL U.N.O. COORDINATE WITH ELECTRICAL WORKSTATIONS. COORDINATE FINAL LOCATIONS WITH OWNER
- H. REFER TO SHEET 0501 FOR EXPANSION JOINT SCHEDULE AND DETAILS

## KEYNOTE LEGEND

- 06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06.PL1 PLASTIC LAMINATE CLOSURE PANEL. SCRIBE AT WALL AND/OR CEILING
- 06.PL2 (2) 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH (20" DEEP X 42" LONG) ON 1/4" X 2" FLAT BAR FULLY WELDED BRACKET (PAINTED). PROVIDE BACKING
- 06.SB1 STEEL COUNTERTOP SUPPORT BRACKET
- 08.OP1 OPERABLE PARTITION
- 09.FL1 FELT ACOUSTIC WALL PANEL
- 09.FL2 FELT ACOUSTIC CEILING PANEL. PANEL TO BE CENTERED ON ADJACENT WINDOW PANEL AND SUSPENDED FROM ROOF DECK ABOVE. MATCH ROOF SLOPE. LOW EDGE OF PANEL TO BE 10'-0" A.F.F.
- 09.FP1 PROVIDE LEVEL 05 FINISH
- 10.FE1 SEMI-RECESSED FIRE EXTINGUISHER CABINET
- Z3.WH1 WALL HEATER. COORDINATE WITH MECHANICAL



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## INTERIOR ELEVATIONS

A253



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

E

D

C

B

A

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 ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS
- D. DO NOT SCALE DRAWINGS
- E. REFER TO SHEET **A301** FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

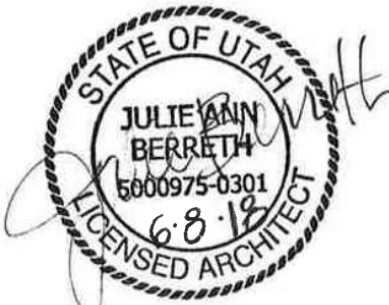
- 05.SC1 GALVANIZED CUSTOM PAINTED STEEL COLUMN. COORDINATE WITH STRUCTURAL
- 06.FF1 FLOOR FRAMING. COORDINATE WITH STRUCTURAL
- 06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06.RF1 ROOF FRAMING. COORDINATE WITH STRUCTURAL
- 08.TD1 TUBULAR DAYLIGHTING ELEMENT. PATCH AND REPAIR EXISTING ROOF. PROVIDE FLASHING AND SEAL WATER TIGHT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT AND EXISTING BUILDING STRUCTURE



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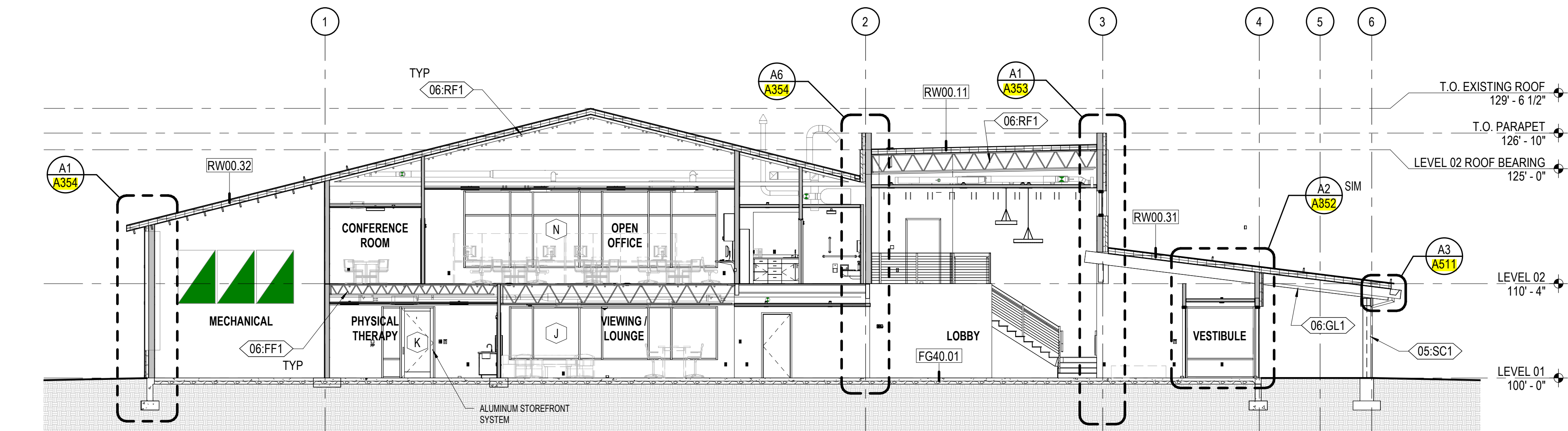
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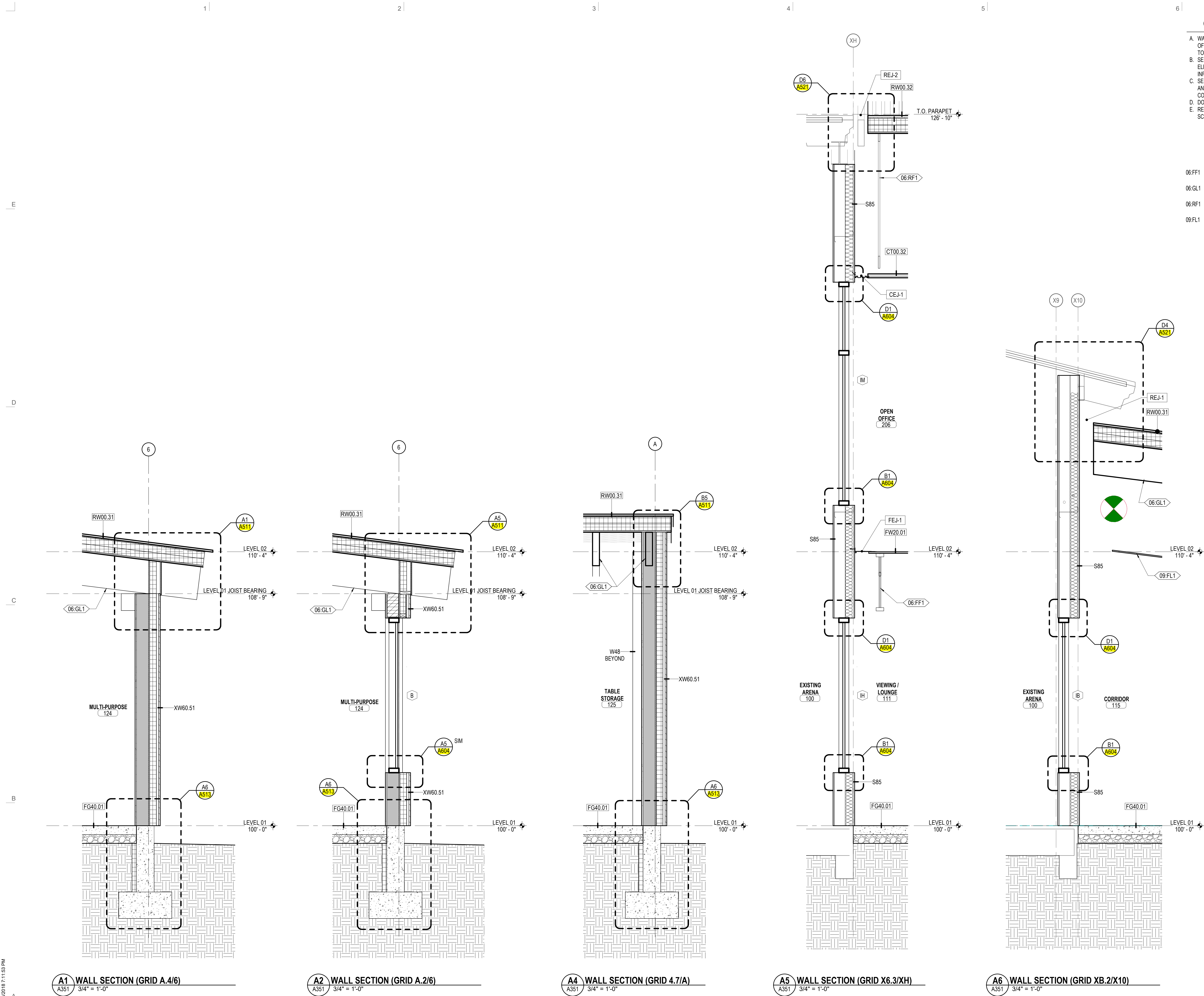
NEXUS PROJ. #: 17179  
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DATE: 06.08.18

BUILDING SECTIONS

A301







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 ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS
- D. DO NOT SCALE DRAWINGS
- E. REFER TO SHEET A521 FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

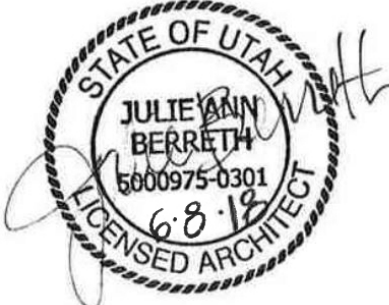
- 06.FF1 FLOOR FRAMING. COORDINATE WITH STRUCTURAL
- 06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06.RF1 ROOF FRAMING. COORDINATE WITH STRUCTURAL
- 09.FL1 FELT ACOUSTIC WALL PANEL



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WALL SECTIONS

A351



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 ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS  
D. DO NOT SCALE DRAWINGS  
E. REFER TO SHEET **A351** FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

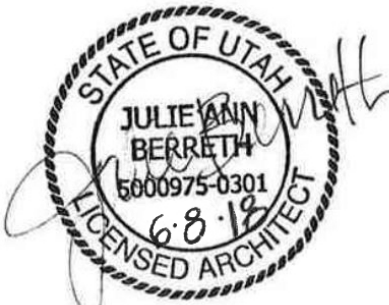
- 03.HS1 HAUNCHED SLAB. REFER TO STRUCTURAL  
05.TS1 GALVANIZED CUSTOM PAINTED TUBE STEEL BEAM. COORDINATE WITH STRUCTURAL  
06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL



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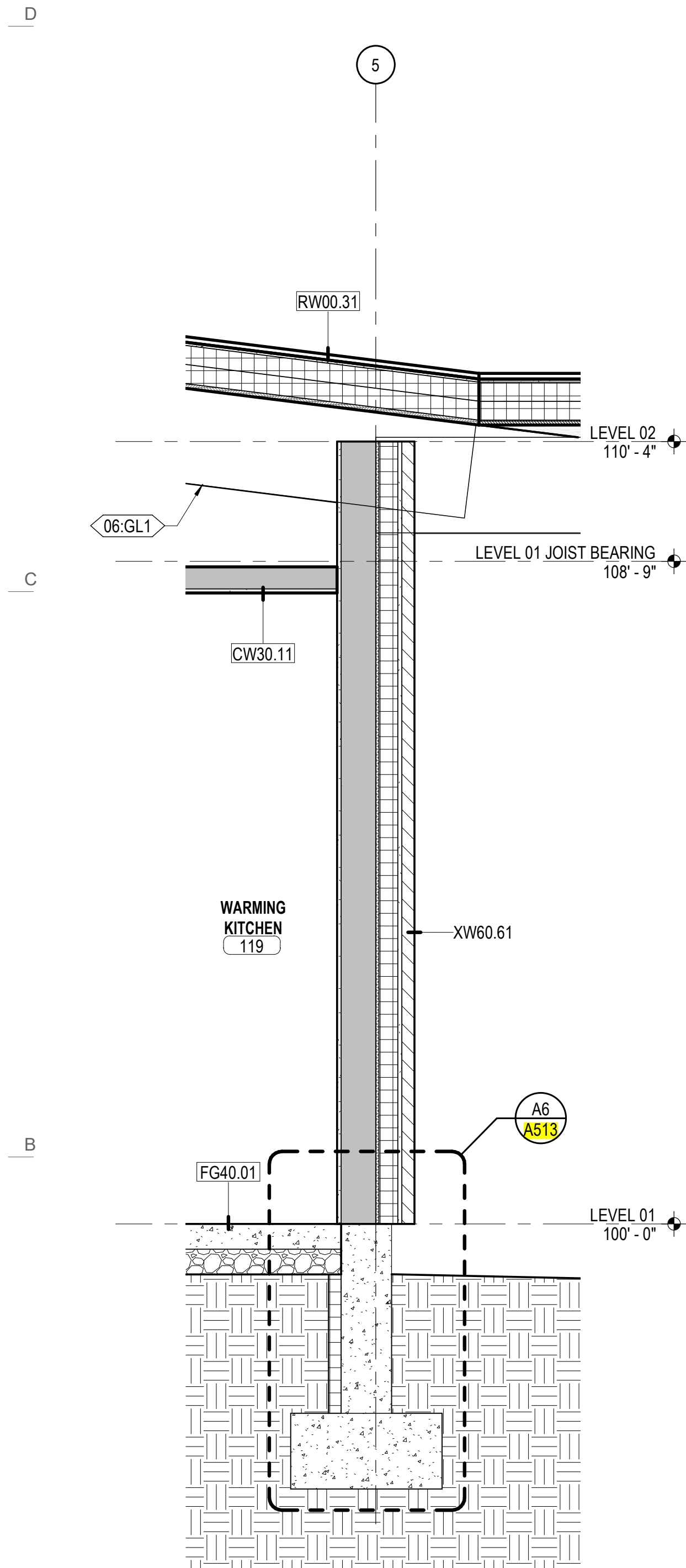
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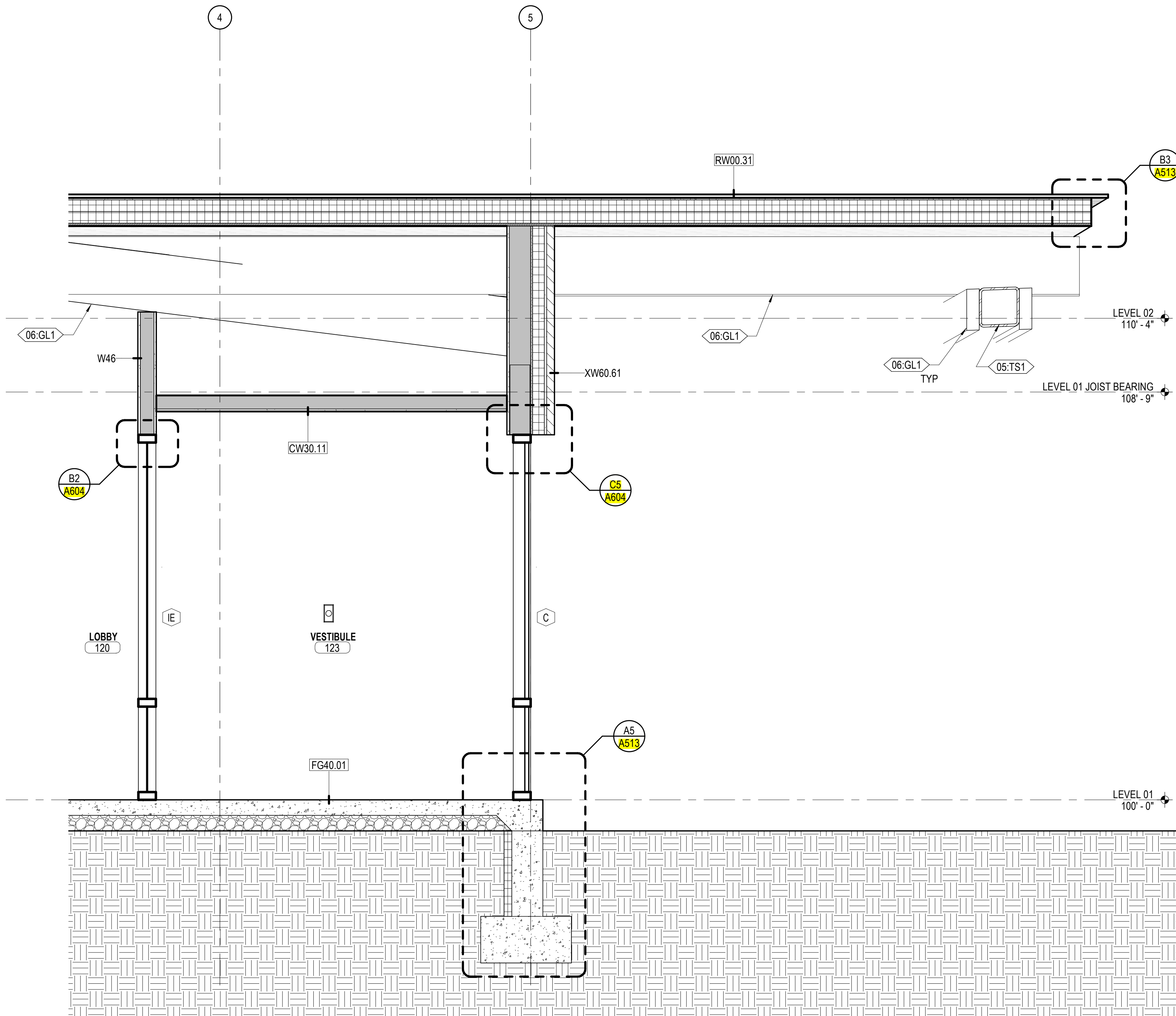
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DATE: 06.08.18

WALL SECTIONS

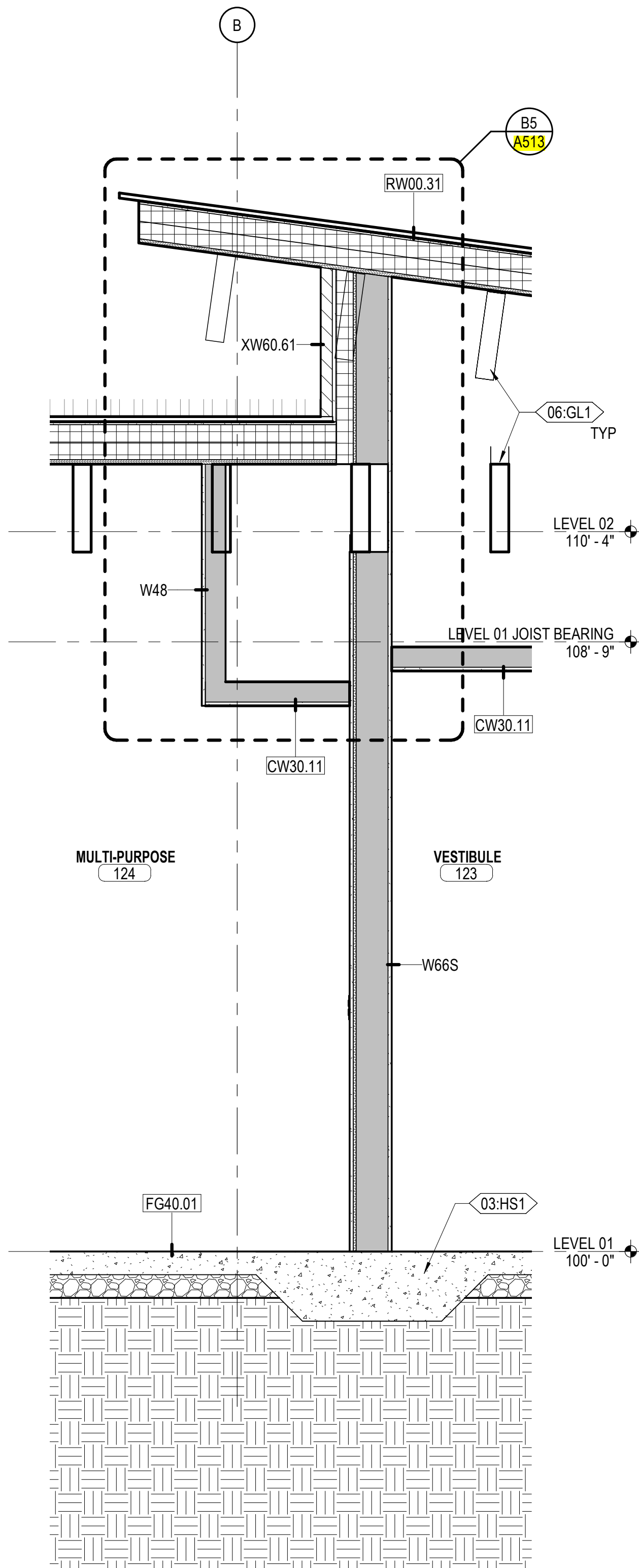
A352



**A1** WALL SECTION (GRID B.8/5)  
A352 3/4" = 1'-0"

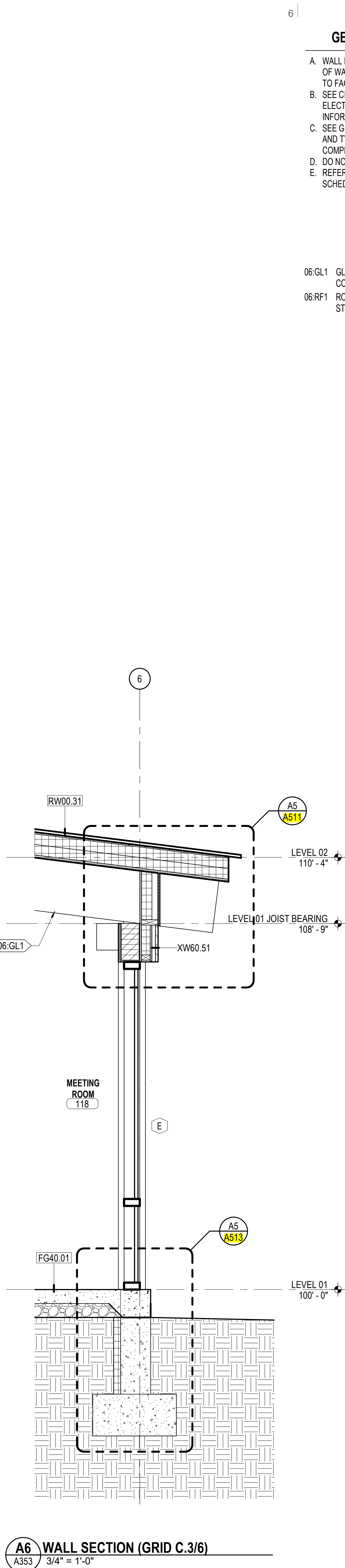
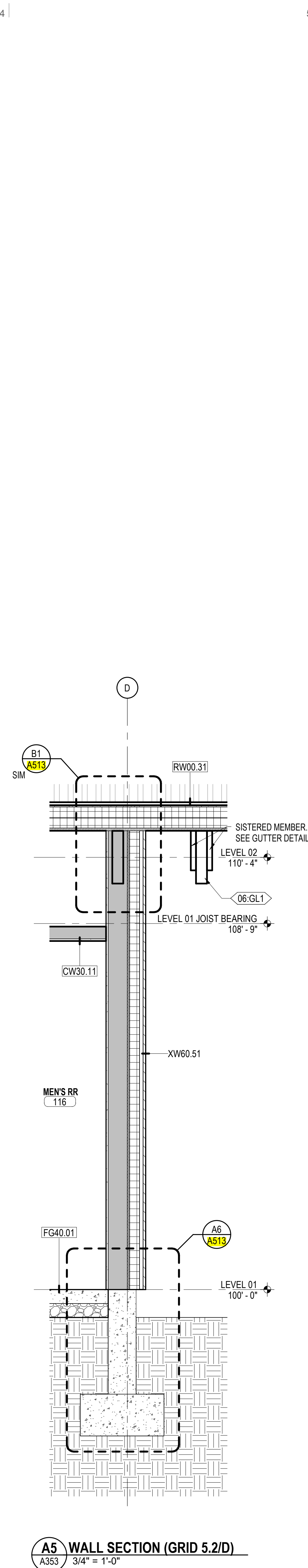
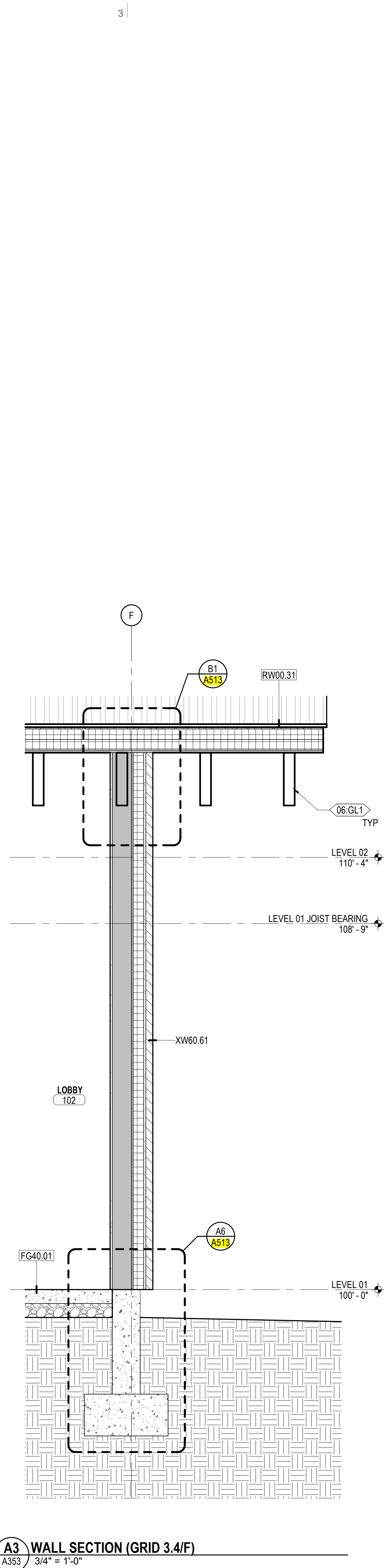
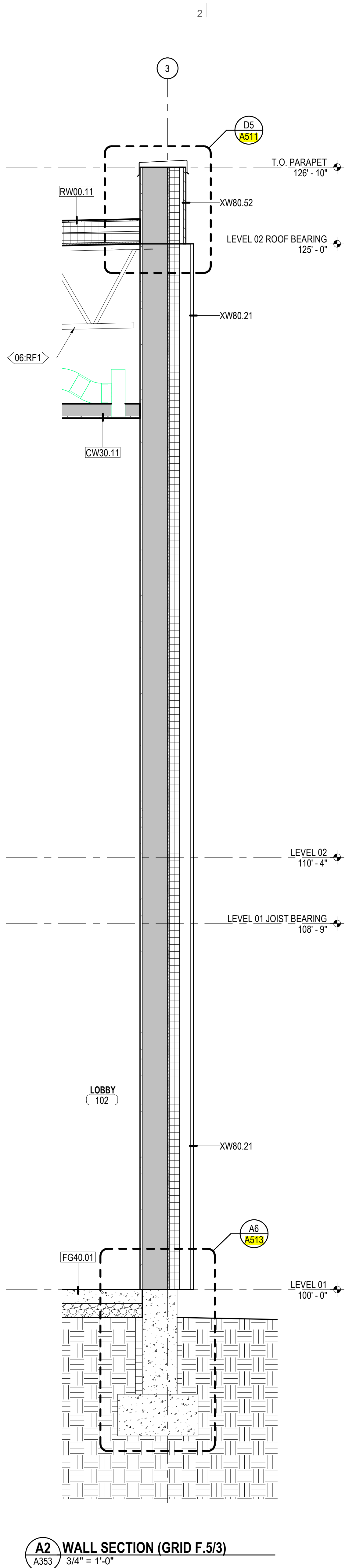
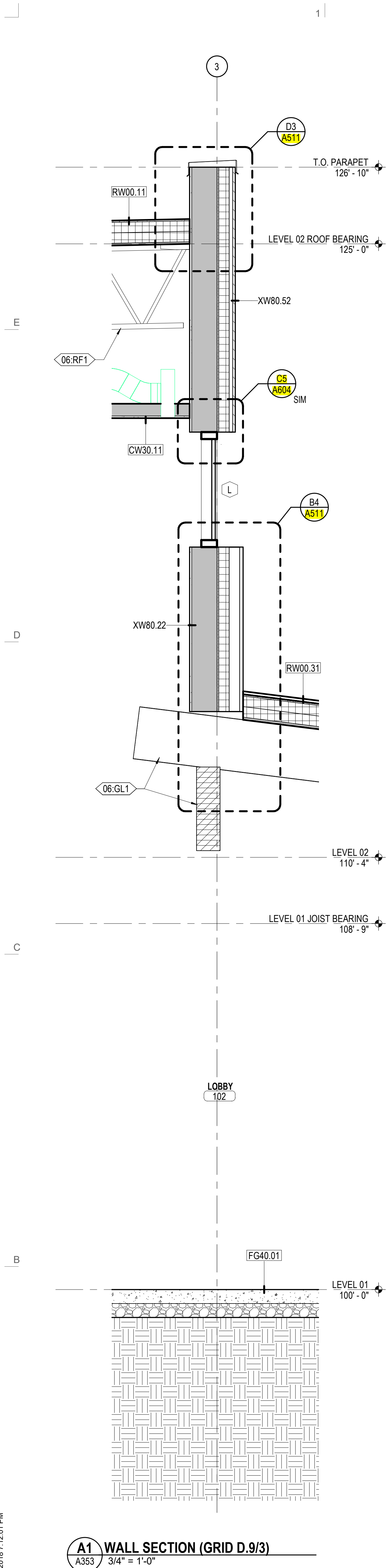


**A2** WALL SECTION (GRID B.4/5)  
A352 3/4" = 1'-0"



**A6** WALL SECTION (GRID 4.3/B.1)  
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 ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS
- D. DO NOT SCALE DRAWINGS
- E. REFER TO SHEET A521 FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

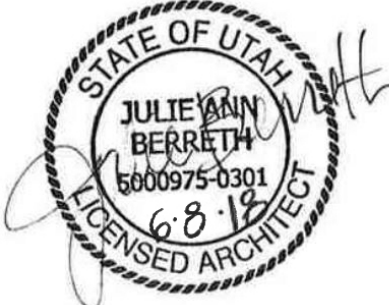
- 06.GL1 GLUED-LAMINATED WOOD JOIST/BEAM. COORDINATE WITH STRUCTURAL
- 06.RF1 ROOF FRAMING. COORDINATE WITH STRUCTURAL



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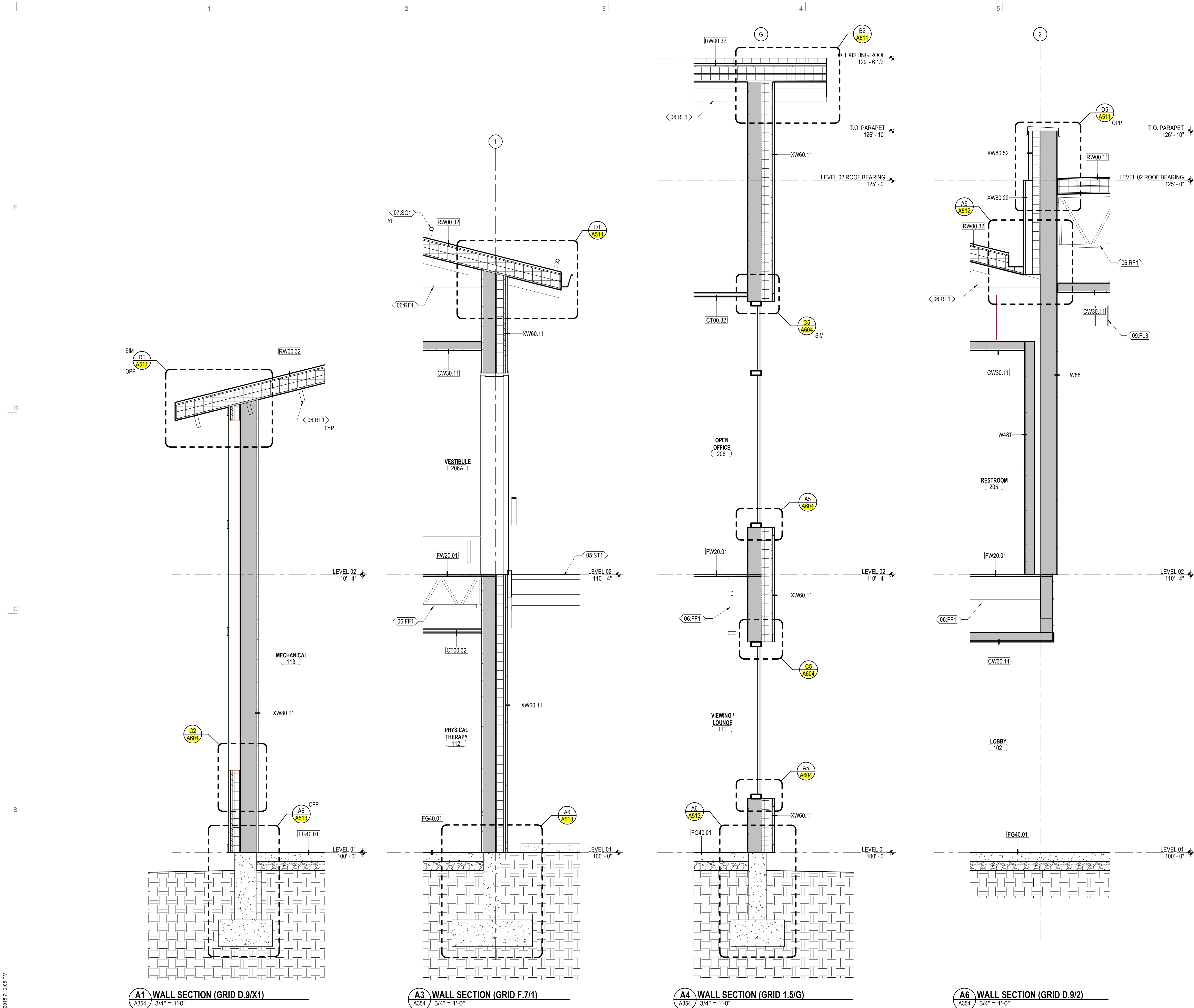
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WALL SECTIONS

A353





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 ASSEMBLY TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS
- D. DO NOT SCALE DRAWINGS
- E. REFER TO SHEET A521 FOR EXPANSION JOINT SCHEDULE AND DETAILS

KEYNOTE LEGEND

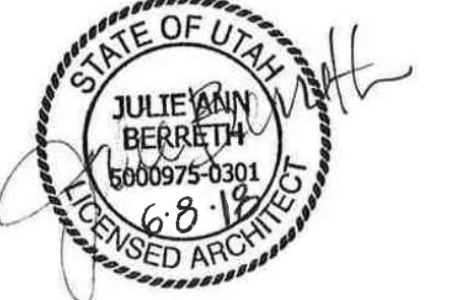
- 05-ST1 GALVANIZED EXTERIOR METAL GRATE STAIR AND RAILING
- 06-FF1 FLOOR FRAMING. COORDINATE WITH STRUCTURAL
- 06-RF1 ROOF FRAMING. COORDINATE WITH STRUCTURAL
- 07-SG1 SNOWGUARD. ANCHOR TO STRUCTURAL ROOF FRAMING
- 09-FL3 FELT ACOUSTIC BAFFLE



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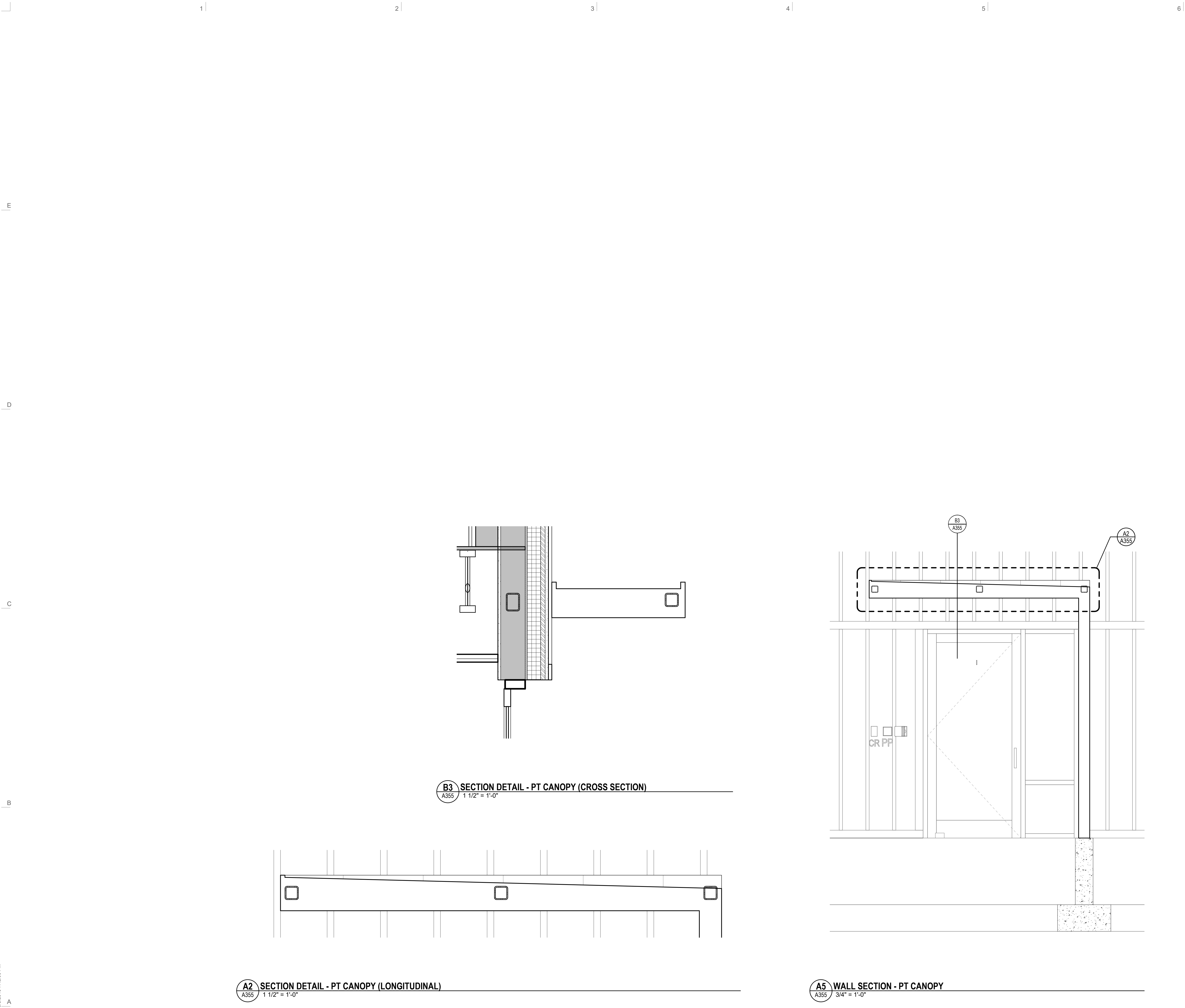
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WALL SECTIONS

A354

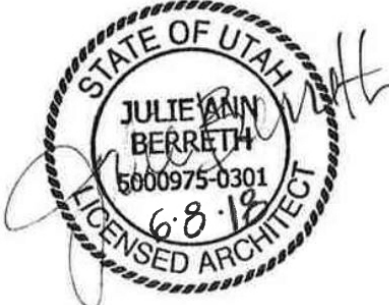




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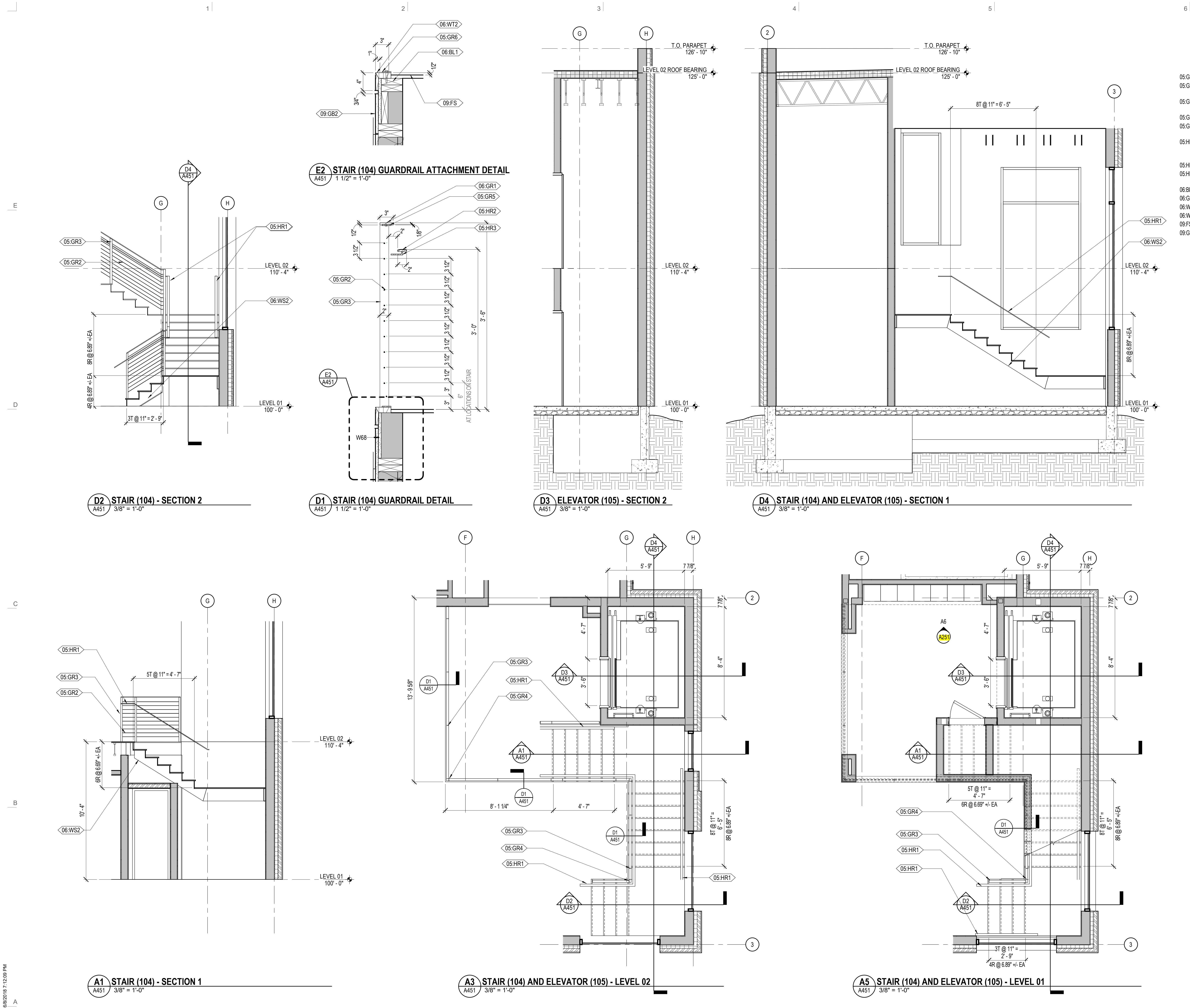
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**CANOPY SECTIONS AND DETAILS**

**A355**





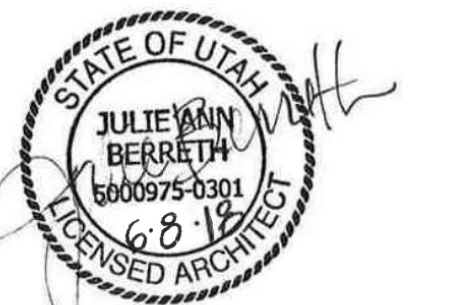
#### KEYNOTE LEGEND

- 05:GR2 STAINLESS STEEL CABLE INFILL
- 05:GR3 PROVIDE 3/8" STEEL GUARDRAIL POSTS @ ALL CHANGES IN DIRECTION AND AT 4' O.C.
- 05:GR4 GUARDRAIL POSTS AT CORNERS TO BE SPACED 4' MIN
- 05:GR5 PROVIDE CONTINUOUS 1/4" STEEL TOP PLATE
- 05:GR6 1/4" STEEL PLATE WELDED TO GUARDRAIL POST, TO EXTEND 2" PAST FRONT AND BACK OF POST
- 05:HR1 PROVIDE 1" HANDRAIL EXTENSION FROM STAIR NOSING AT TOP AND BOTTOM OF STAIR PER PLAN, SEE GUARDRAIL DETAIL FOR ASSEMBLY
- 05:HR2 1/2" STEEL HANDRAIL
- 05:HR3 2" STEEL ANGLE WELD TO GUARD RAIL POST AND HANDRAIL
- 06:BL1 BLOCKING
- 06:GR1 ROUTE AND FASTEN WOOD TO STEEL TOP PLATE
- 06:WS2 WOOD STRINGER REF STRUCTURAL
- 06:WT2 WOOD TRIM WITH MITERED EDGE
- 09:FS SCHEDULED FINISH
- 09:GB2 (2) LAYERS 5/8" GYPSUM BOARD



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# NATIONAL ABILITY CENTER EQUESTRIAN CENTER EXPANSION 1000 ABILITY WAY PARK CITY, UTAH 84060

# Date Revision

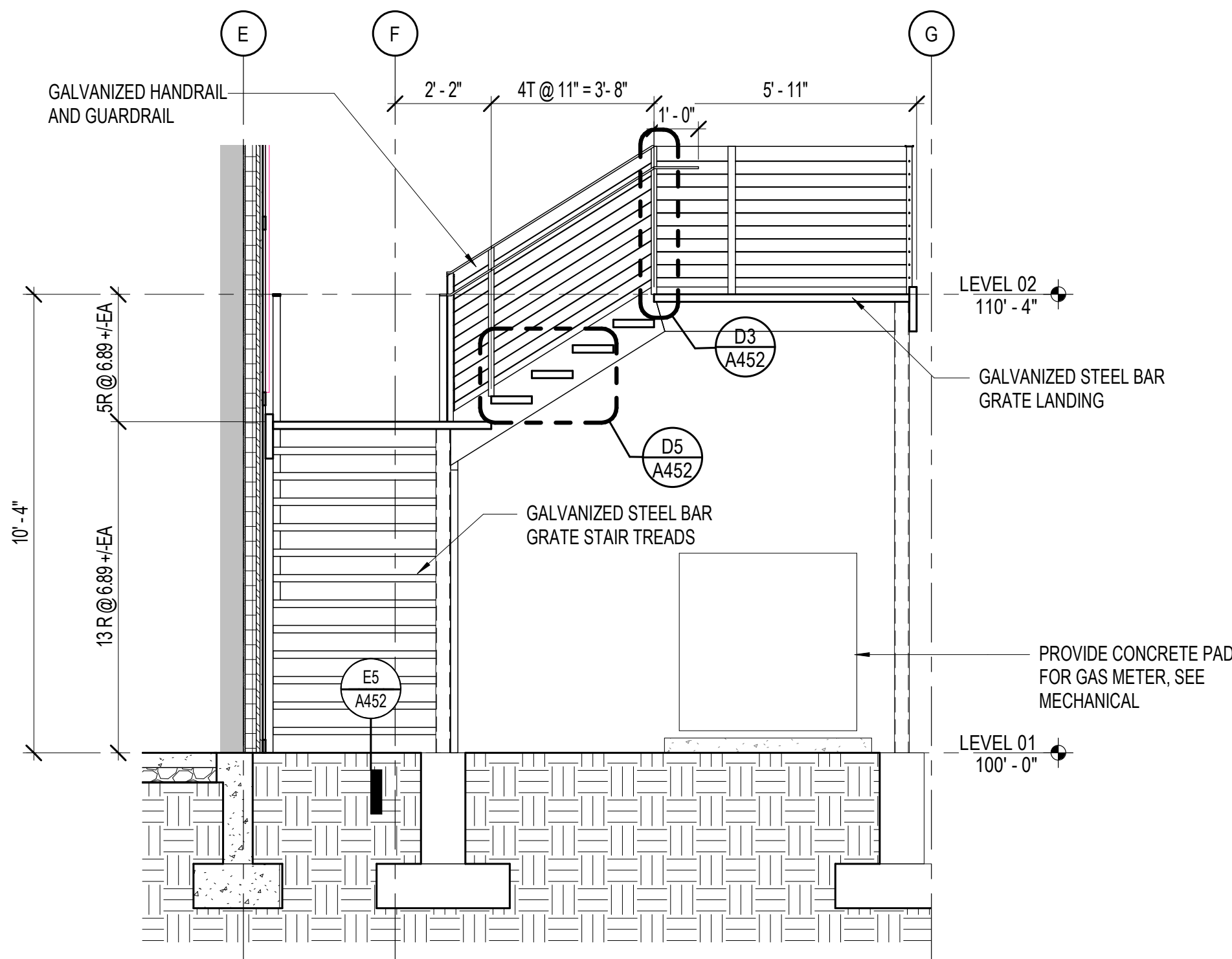
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DRAWN BY: CS  
DATE: 06.08.18

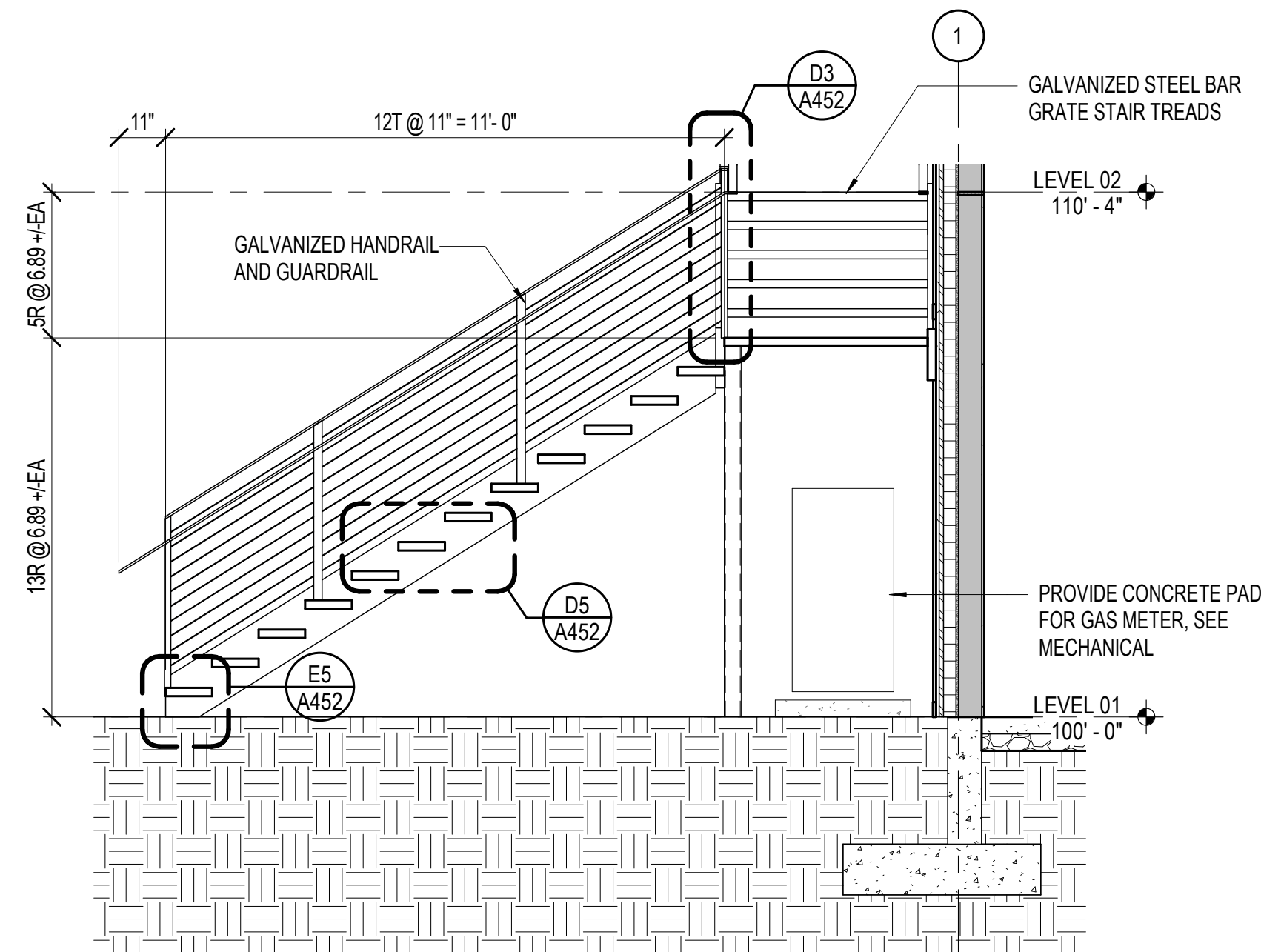
#### ENLARGED STAIR AND ELEVATOR PLANS AND DETAILS

## A451

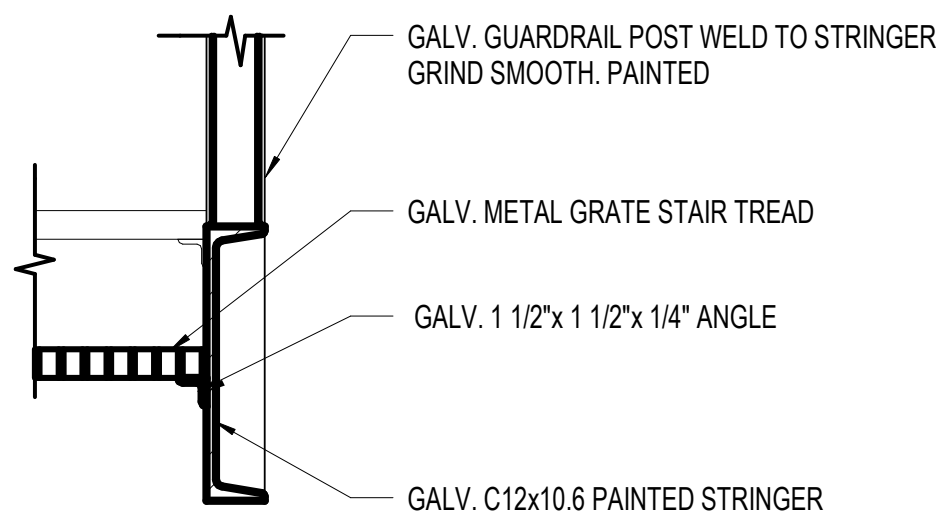




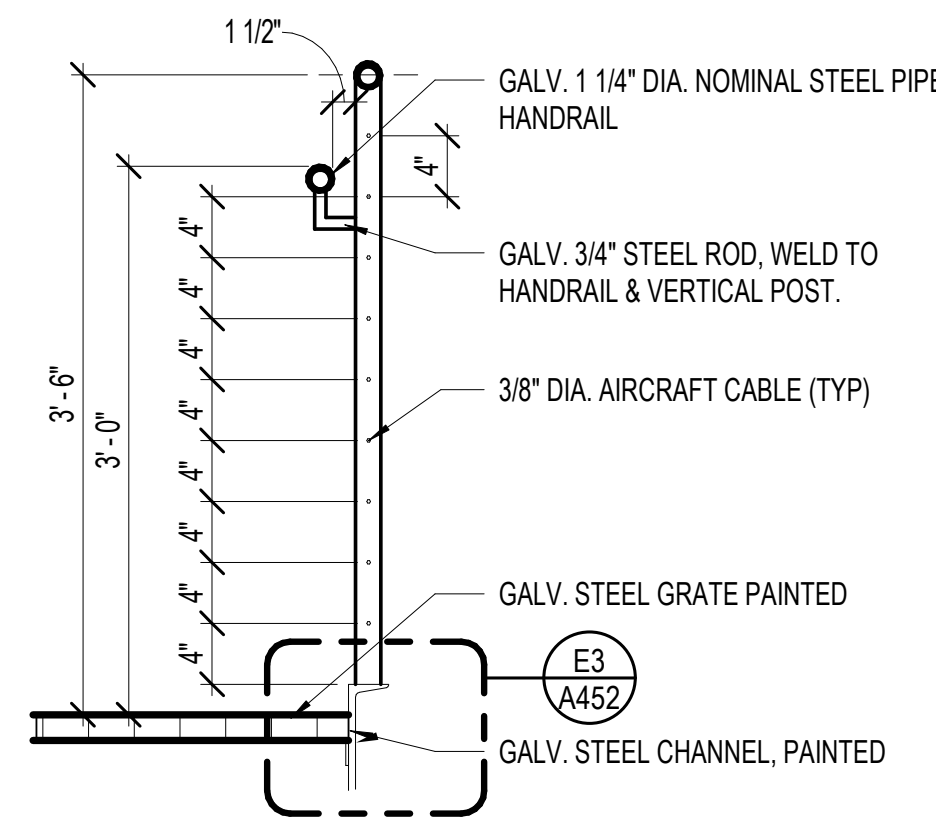
**D1 STAIR (GRID 1/E) - SECTION 1**  
A452 3/8" = 1'-0"



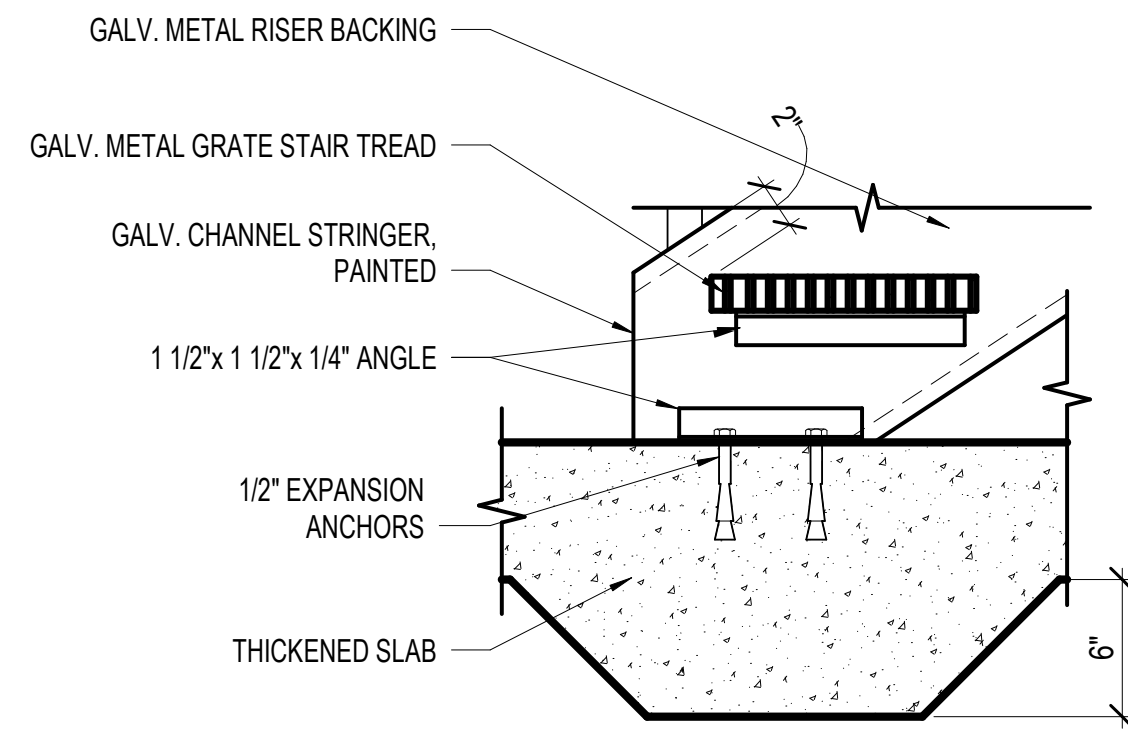
**A1 STAIR (GRID 1/E) - SECTION 2**  
A452 3/8" = 1'-0"



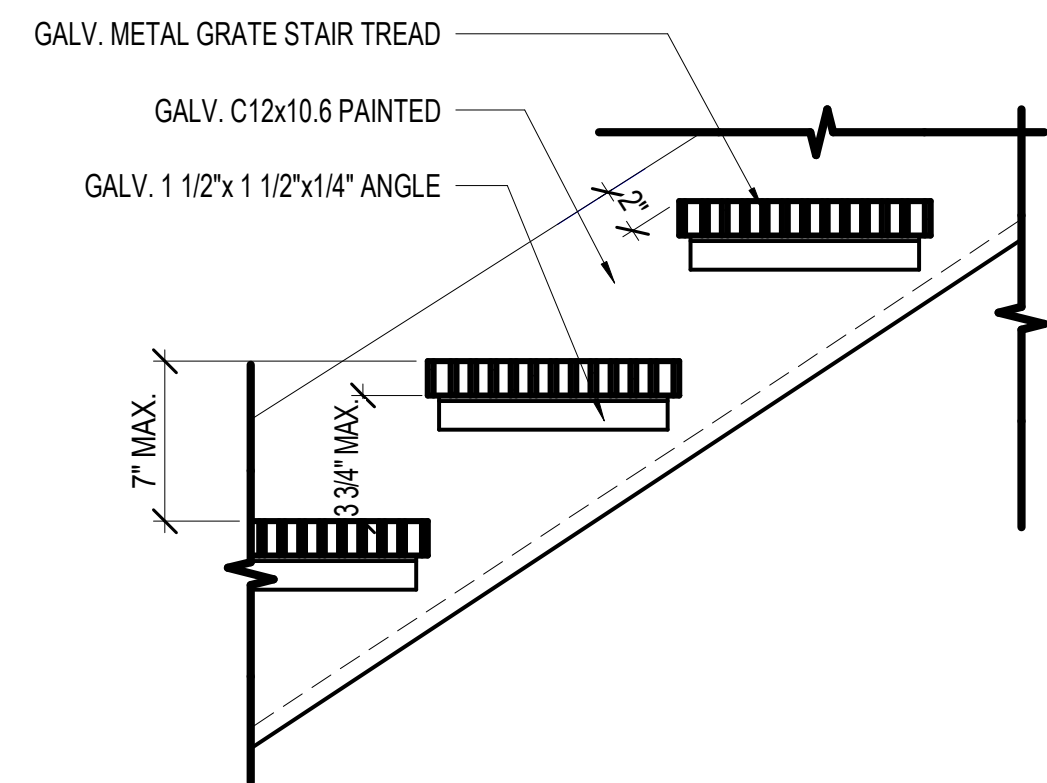
**E3 STRINGER CROSS SECTION DETAIL**  
A452 1 1/2" = 1'-0"



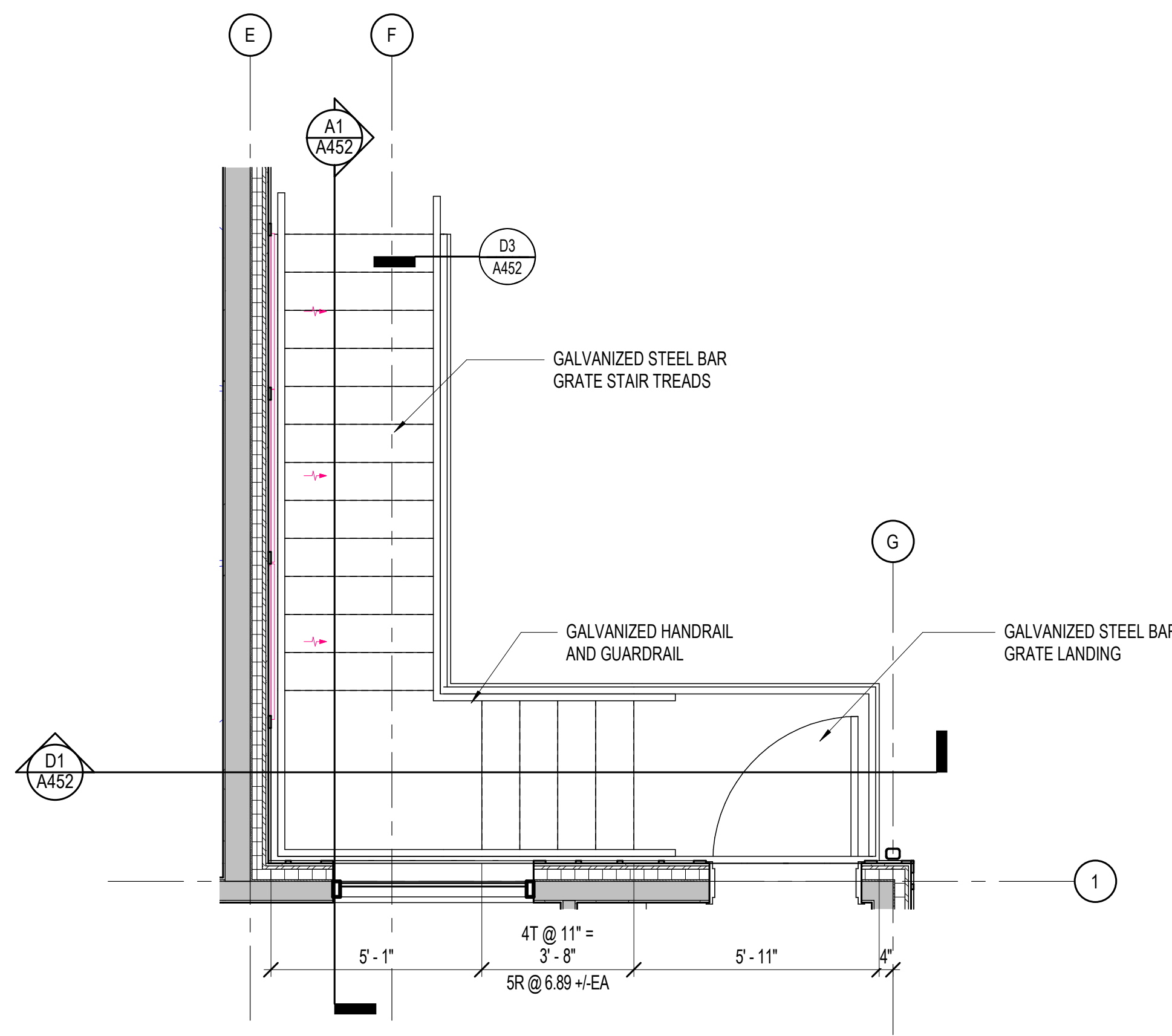
**D3 GUARD RAIL DETAIL A**  
A452 1" = 1'-0"



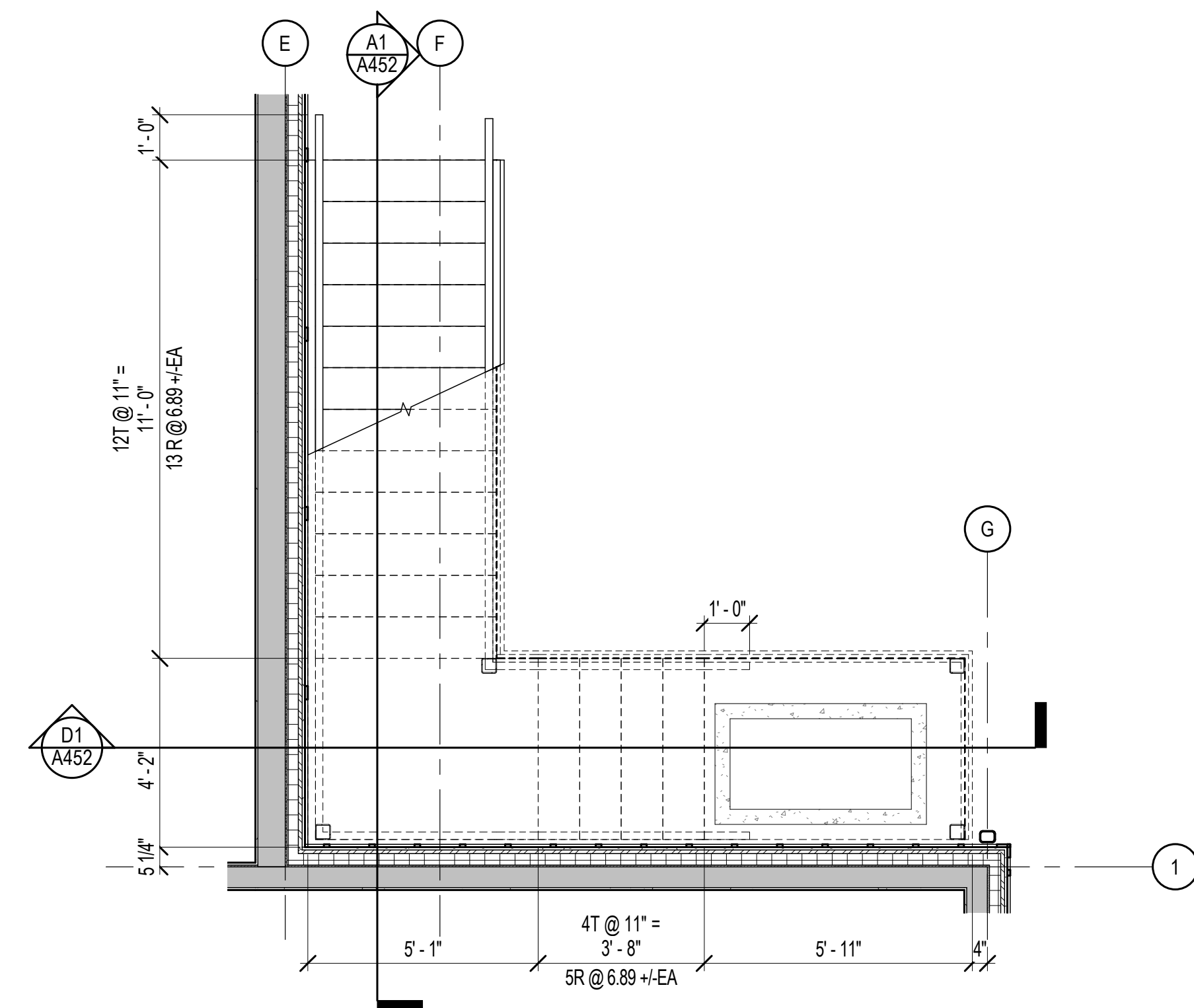
**E5 STRINGER BASE DETAIL**  
A452 1 1/2" = 1'-0"



**D5 STRINGER DETAIL**  
A452 1 1/2" = 1'-0"



**A3 STAIR (GRID 1/E) - LEVEL 02**  
A452 3/8" = 1'-0"



**A6 STAIR (GRID 1/E) - LEVEL 01**  
A452 3/8" = 1'-0"



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**ENLARGED STAIR PLANS AND DETAILS**

**A452**





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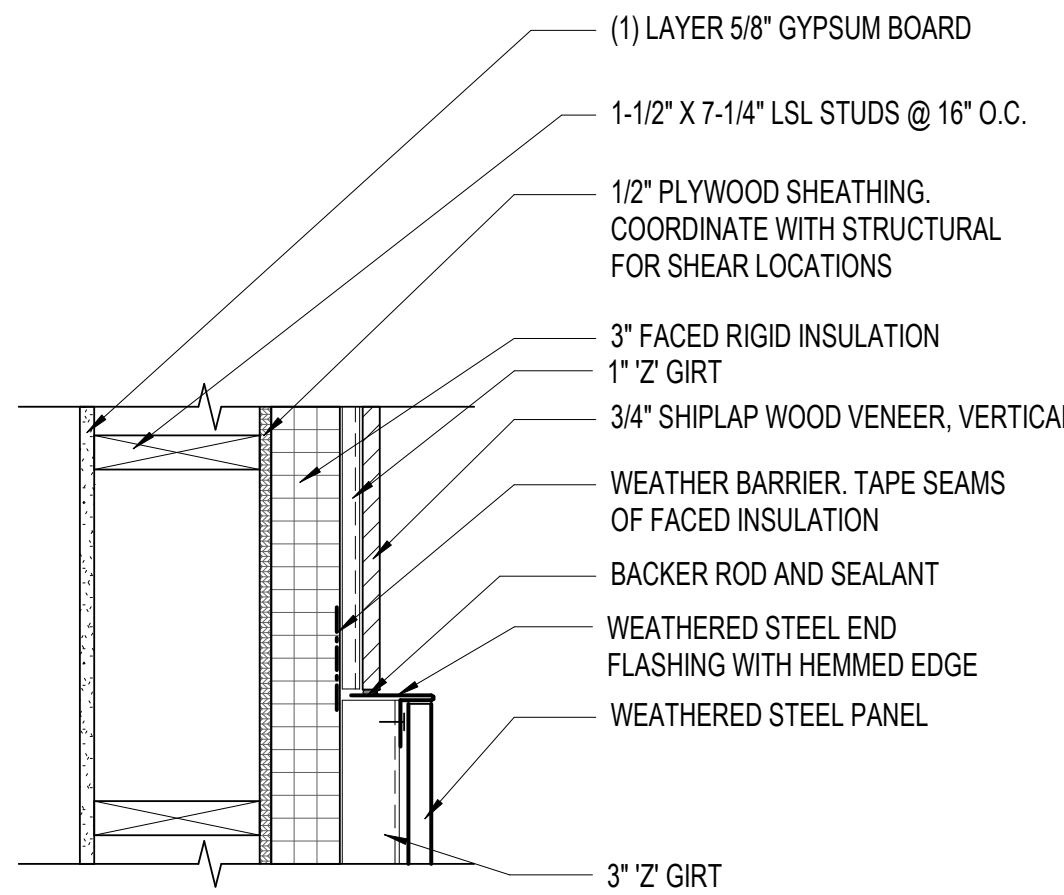
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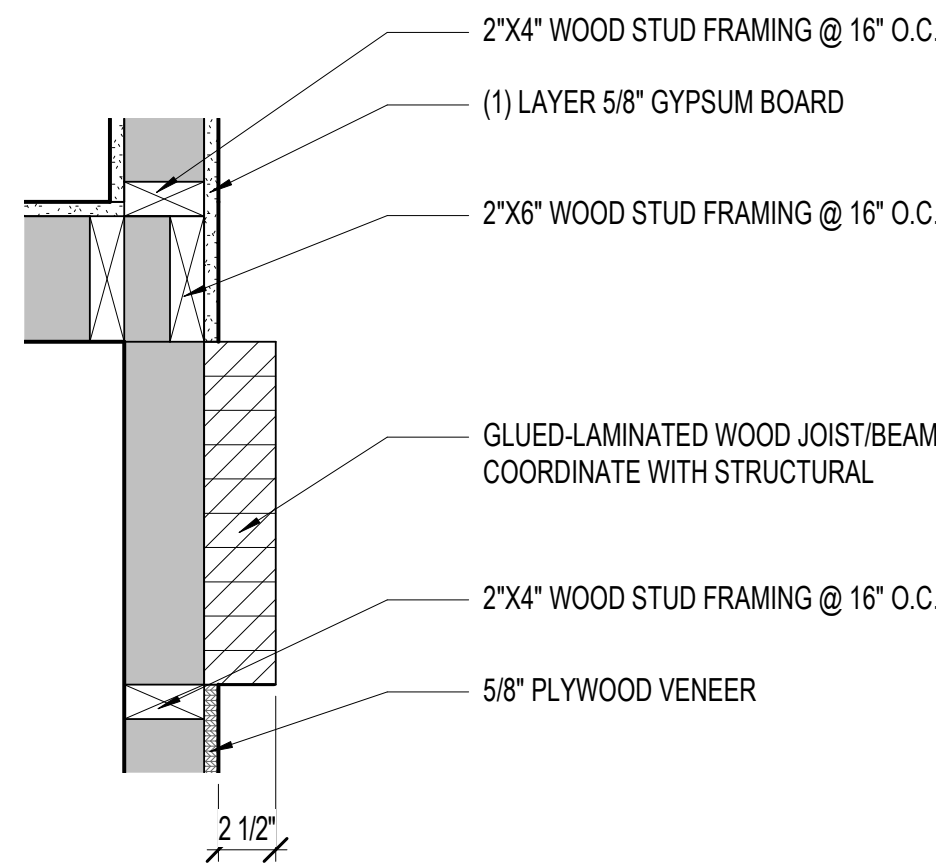
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PLAN DETAILS

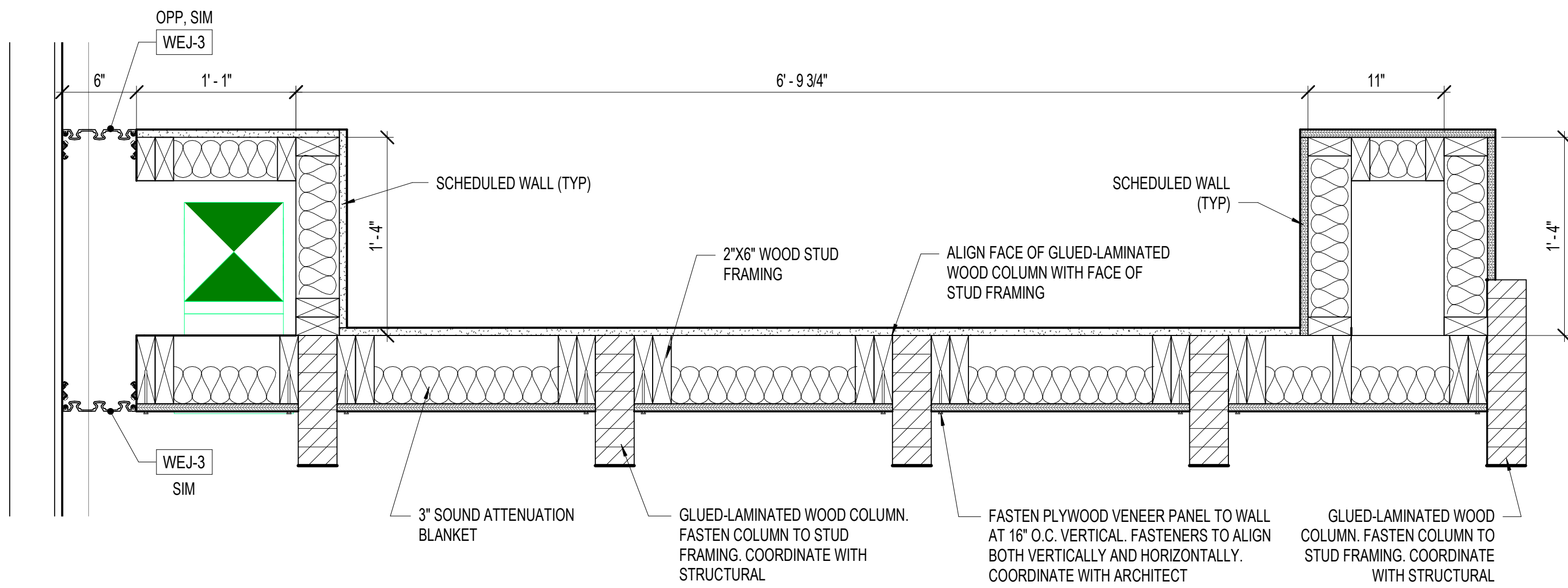
A501



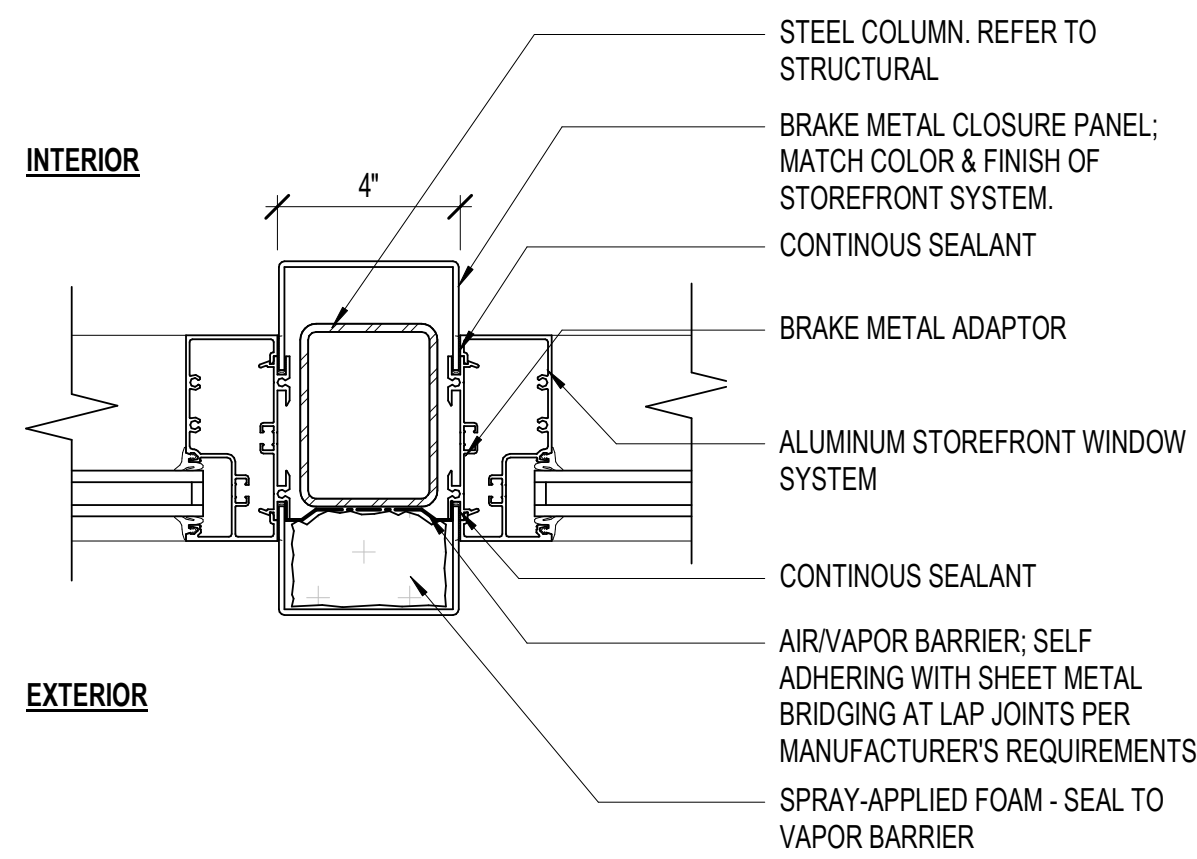
D3 PLAN DETAIL AT WOOD TO METAL PANEL  
A501 1 1/2" = 1'-0"



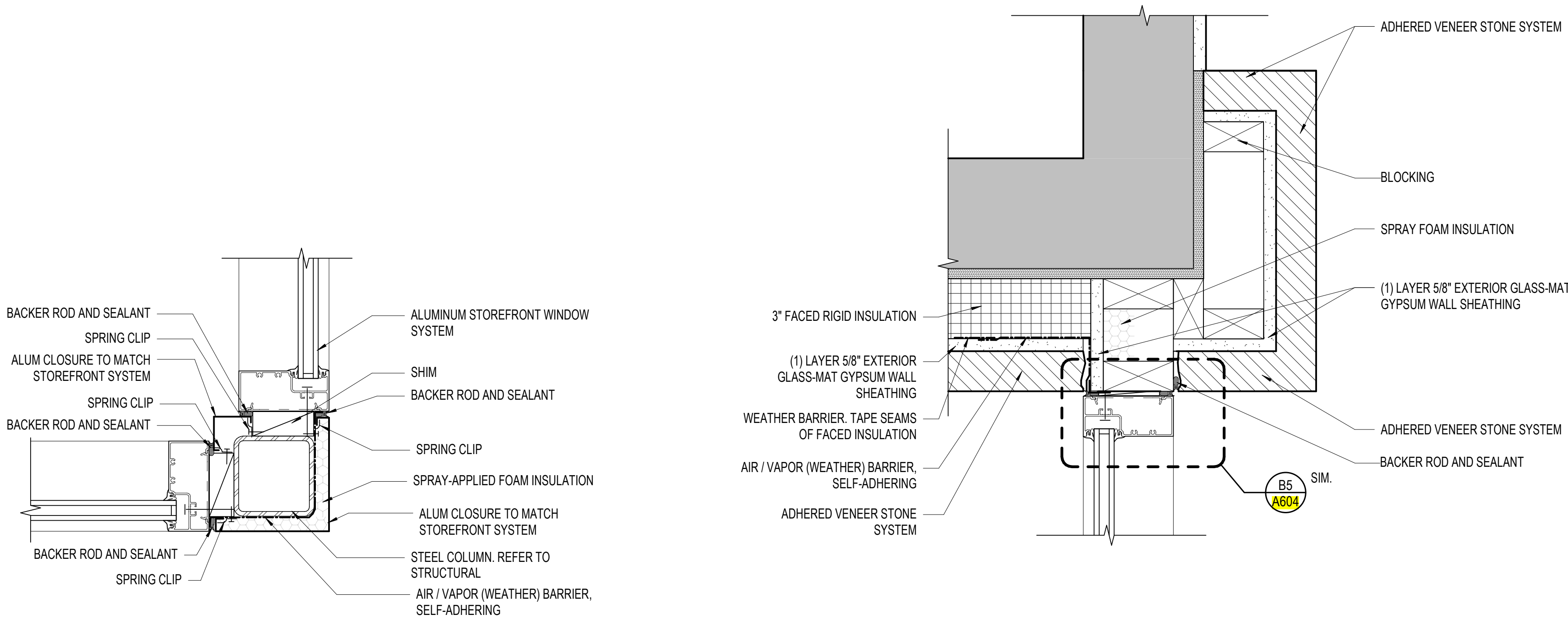
D5 PLAN DETAIL AT INT. GLU-LAM COLUMN  
A501 1 1/2" = 1'-0"



C2 PLAN DETAIL AT FEATURE WALL  
A501 1 1/2" = 1'-0"

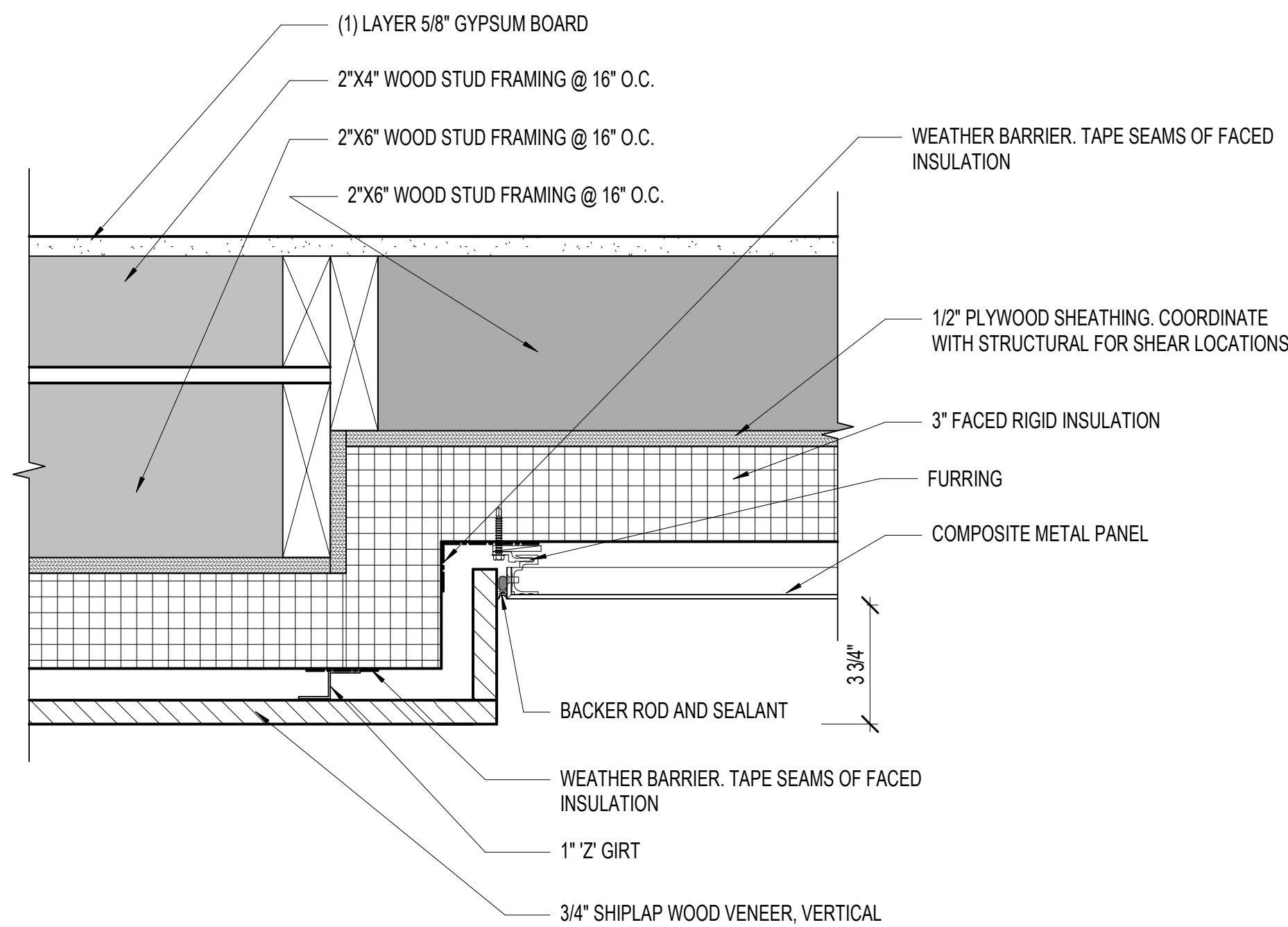


C5 PLAN DETAIL AT STOREFRONT/POST  
A501 3" = 1'-0"



A1 PLAN DETAIL AT CORNER COLUMN/STOREFRONT  
A501 3" = 1'-0"

A3 PLAN DETAIL AT STONE/STOREFRONT  
A501 3" = 1'-0"



A5 PLAN DETAIL AT SIGNAGE  
A501 3" = 1'-0"





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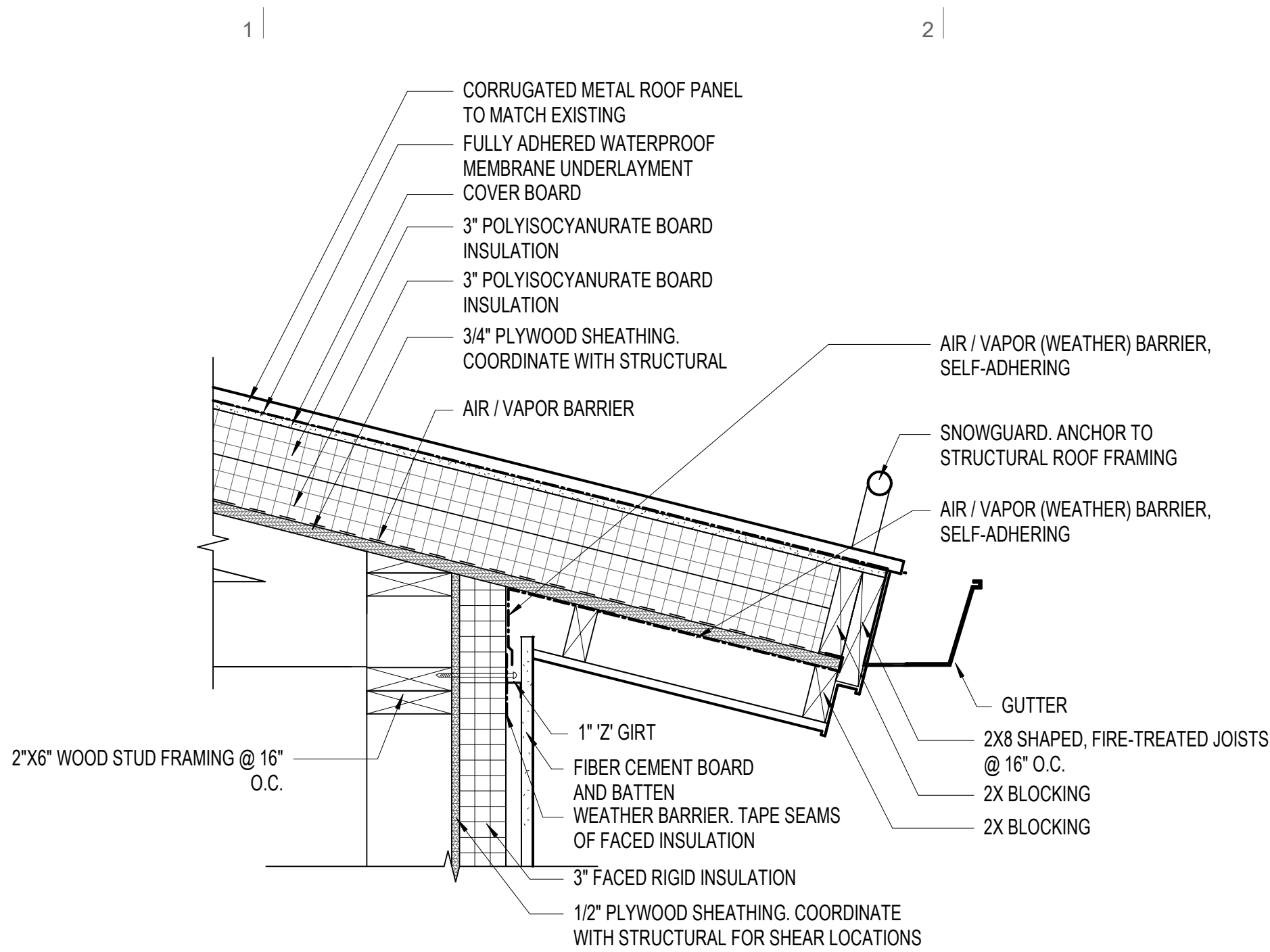
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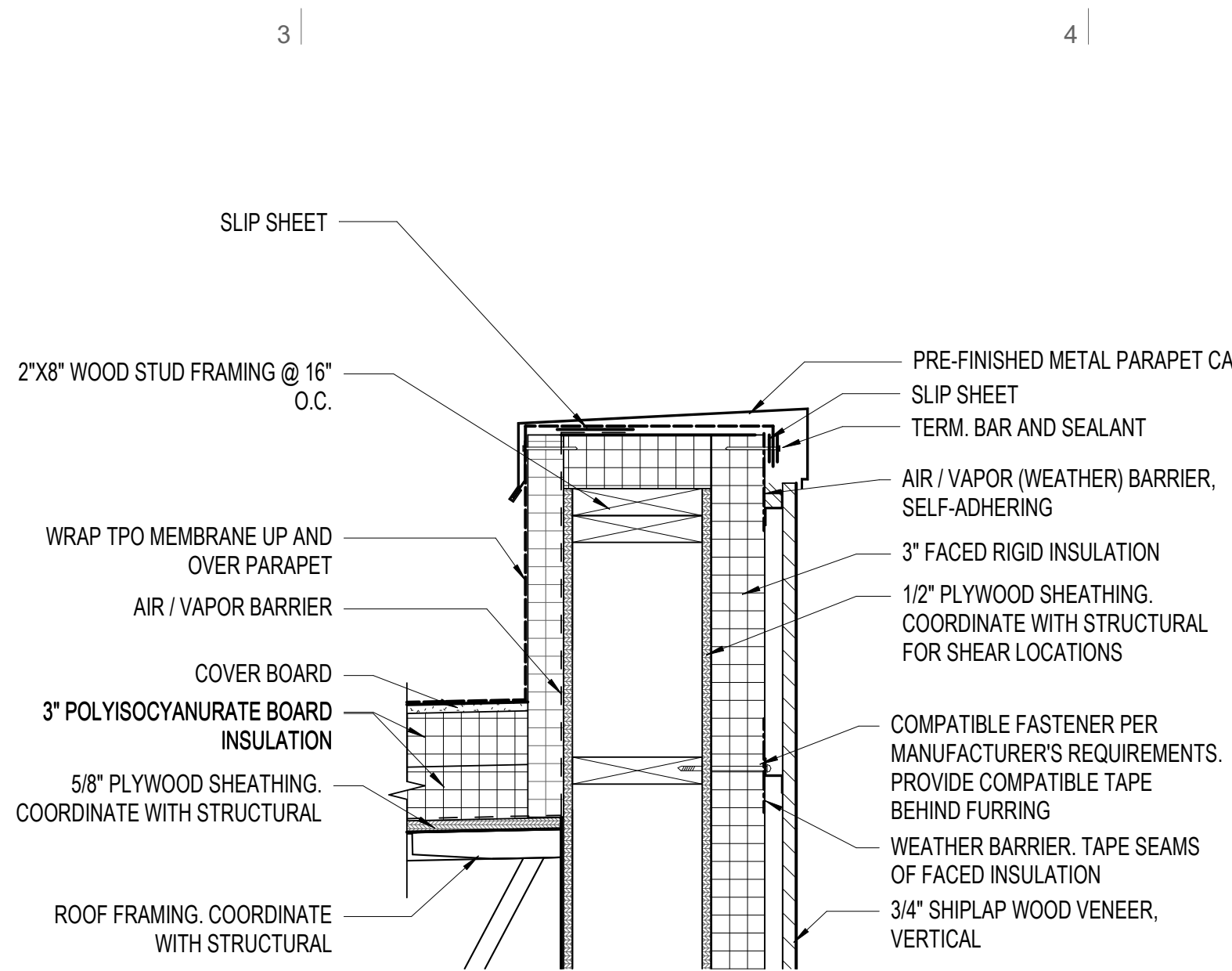
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SECTION  
DETAILS

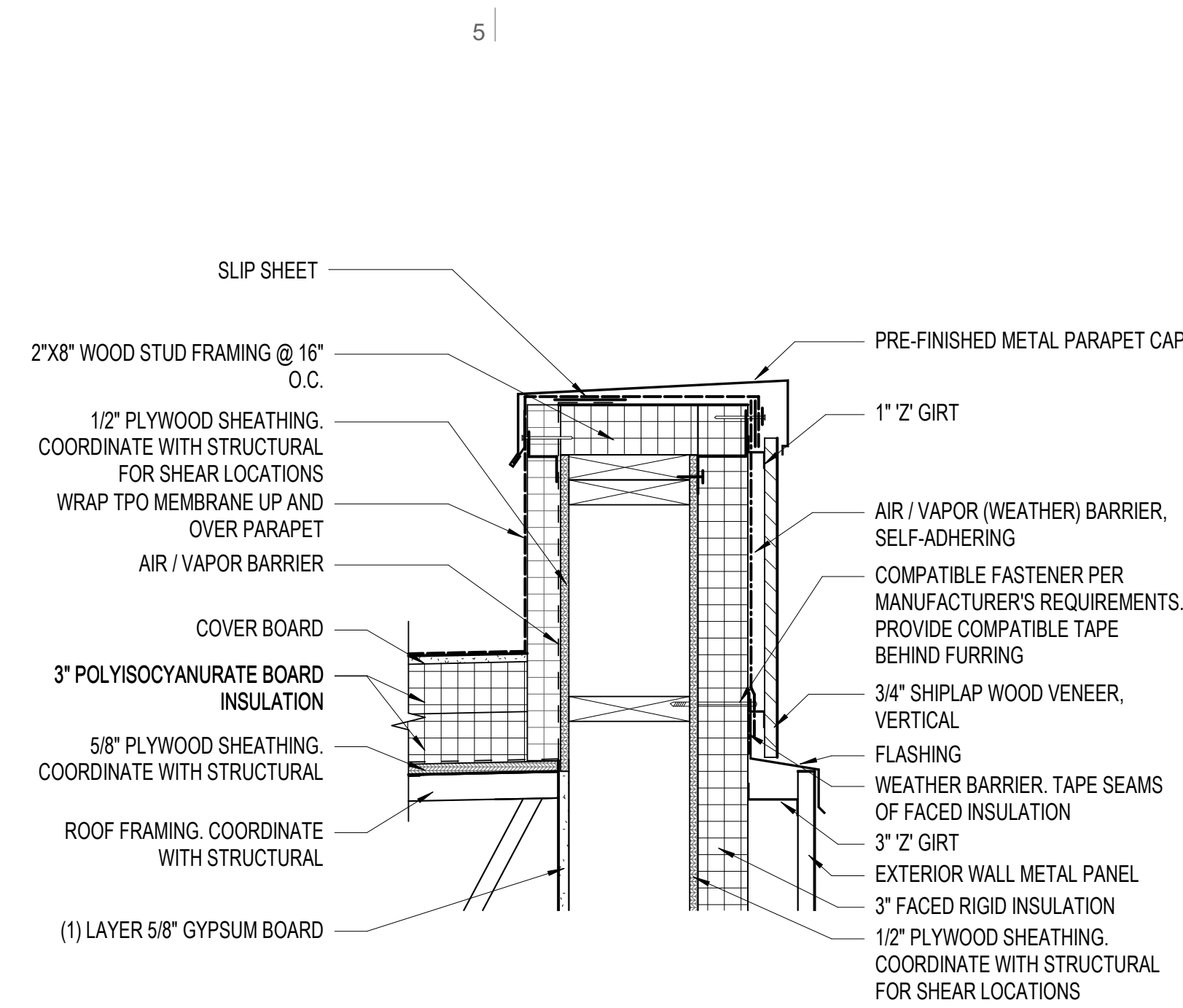
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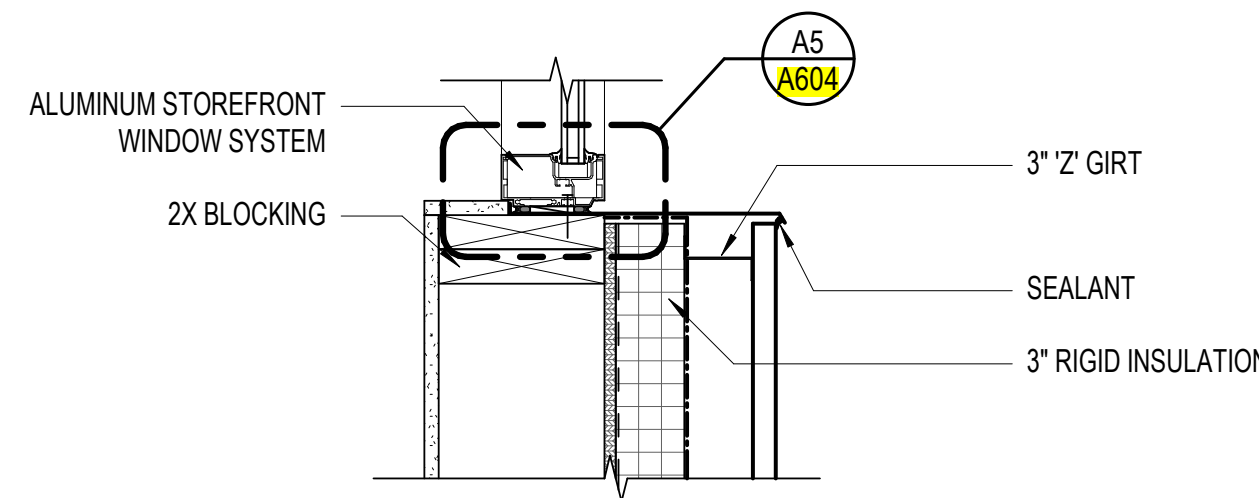
D1 SECTION DETAIL - HIGH ROOF EAVE  
A511 1 1/2" = 1'-0"



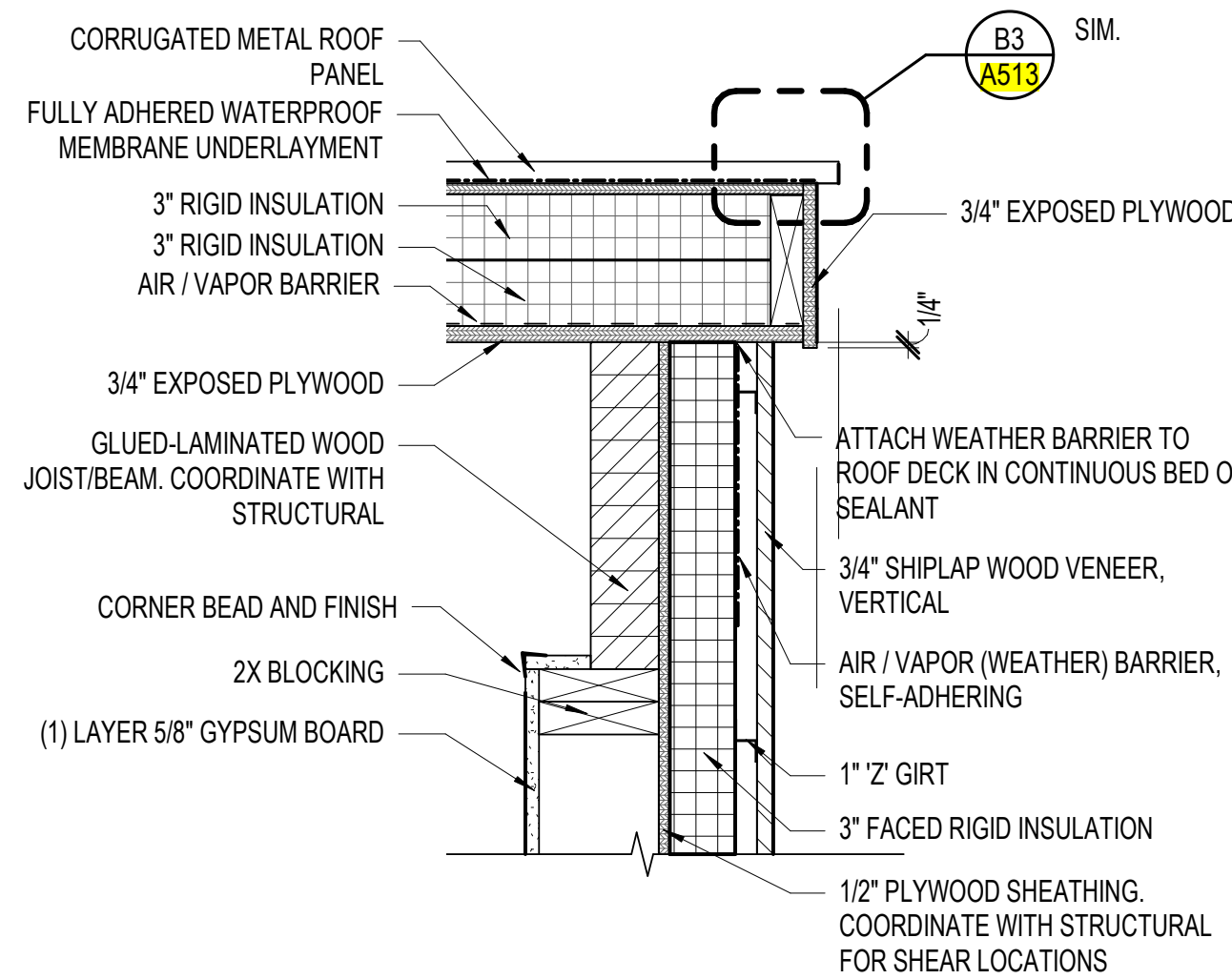
D3 SECTION DETAIL - PARAPET @ WOOD  
A511 1 1/2" = 1'-0"



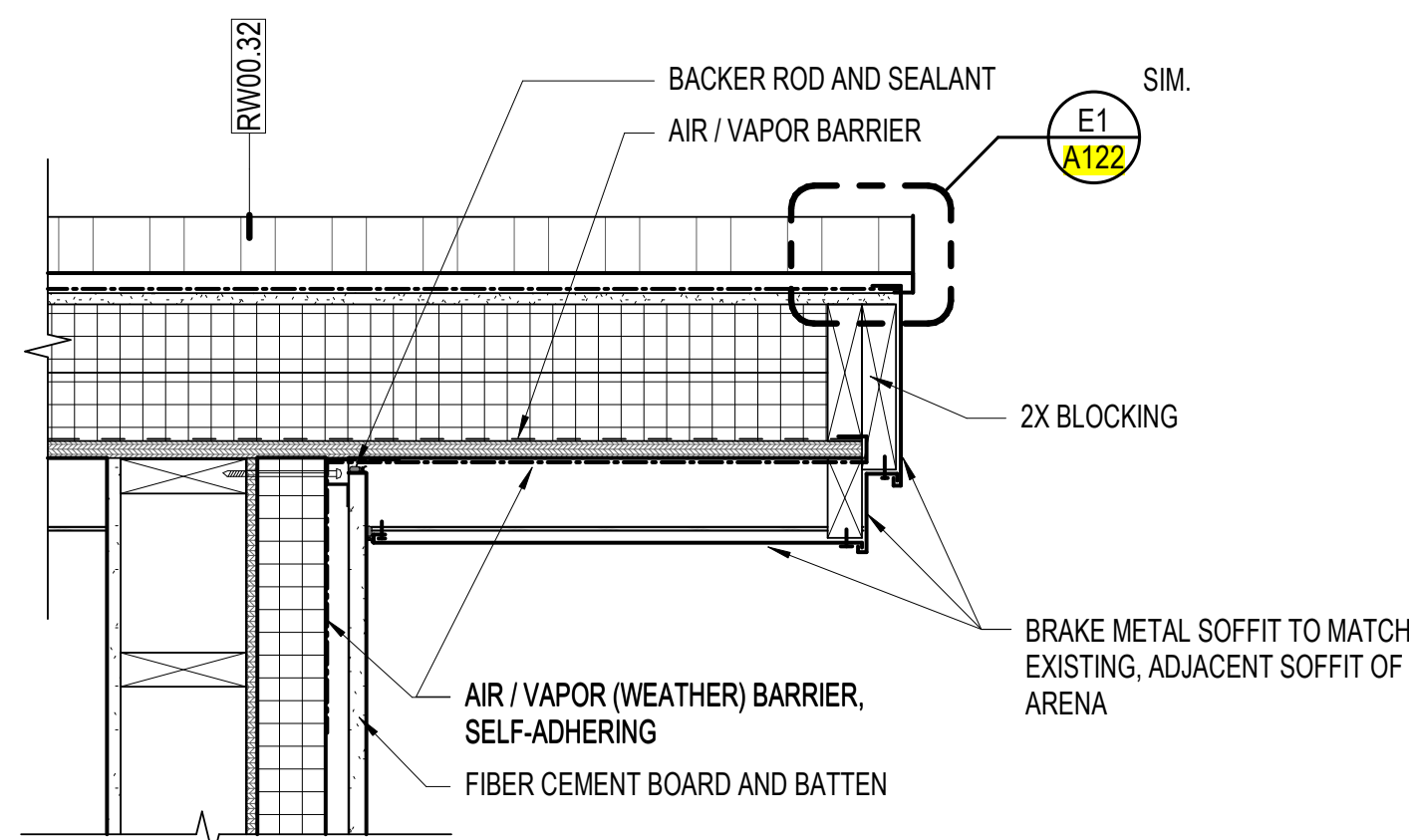
D5 SECTION DETAIL - PARAPET @ METAL PANEL  
A511 1 1/2" = 1'-0"



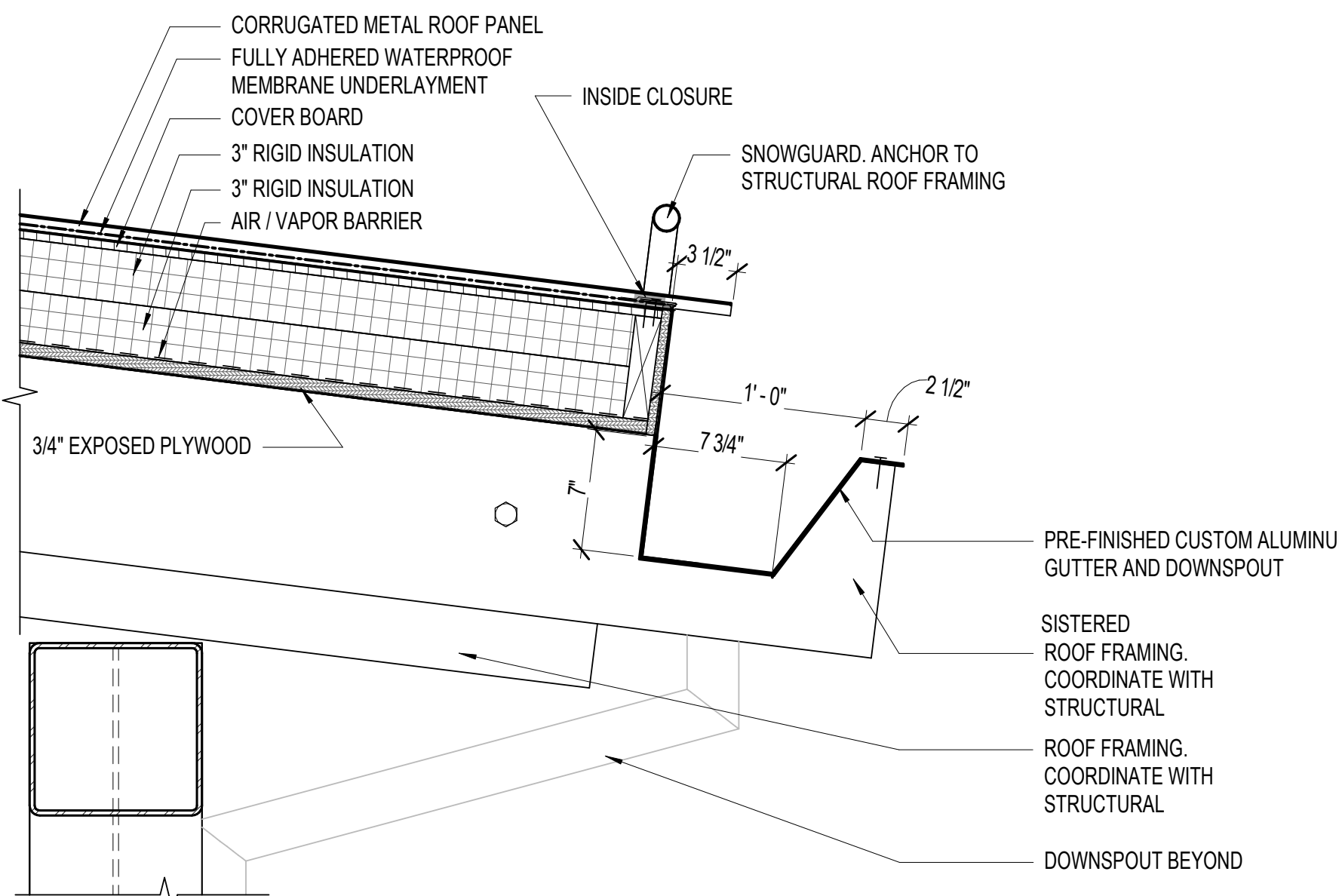
B4 SECTION DETAIL - LOW ROOF @ WINDOW  
A511 1 1/2" = 1'-0"



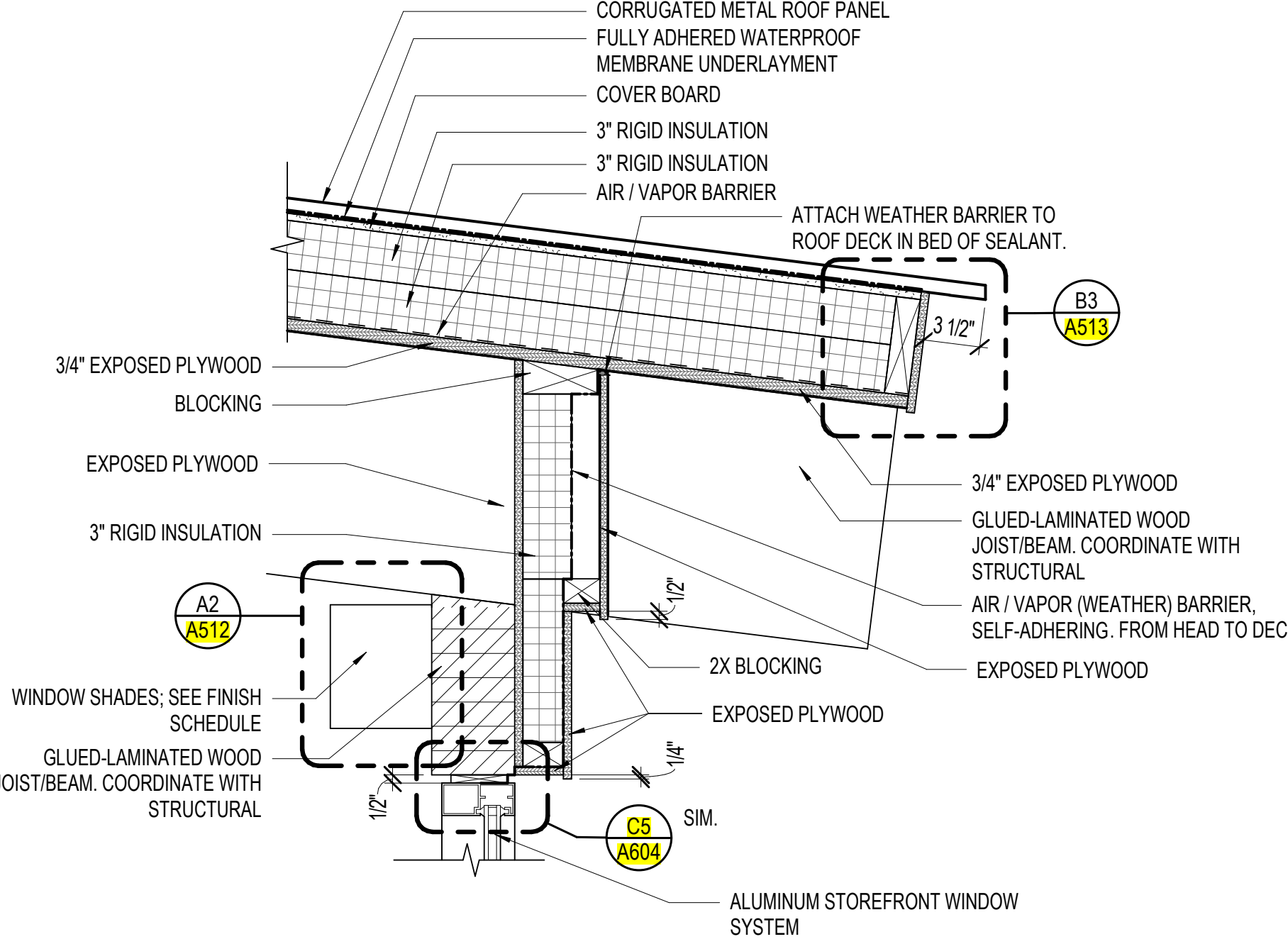
B5 SECTION DETAIL - LOW ROOF EAVE  
A511 1 1/2" = 1'-0"



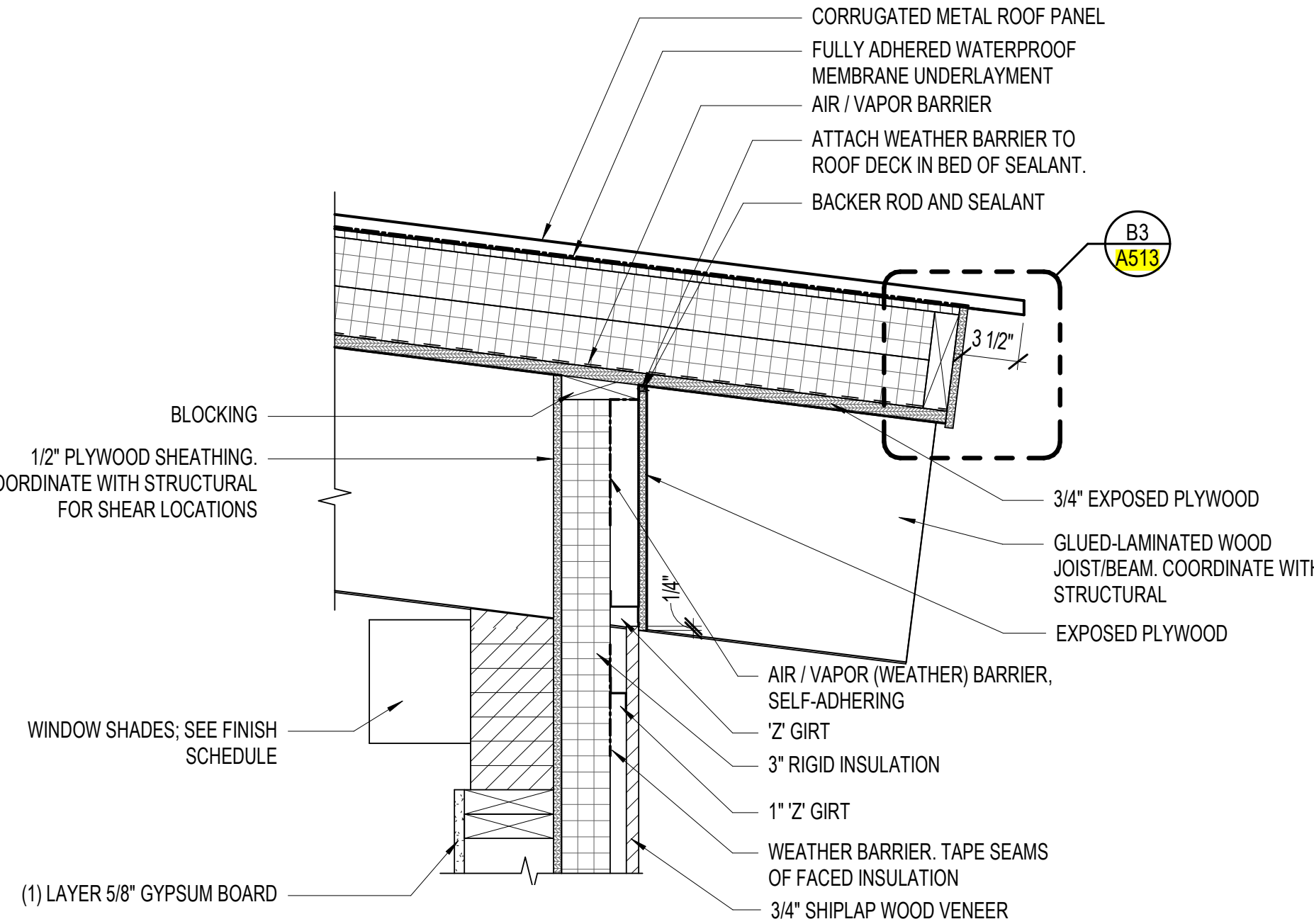
B2 SECTION DETAIL - HIGH ROOF EAVE (PERPENDICULAR)  
A511 1 1/2" = 1'-0"



A3 SECTION DETAIL - LOW ROOF @ GUTTER  
A511 1 1/2" = 1'-0"



A5 SECTION DETAIL - LOW ROOF FASCIA @ WINDOW  
A511 1 1/2" = 1'-0"



A1 SECTION DETAIL - LOW ROOF FASCIA @ WALL  
A511 1 1/2" = 1'-0"

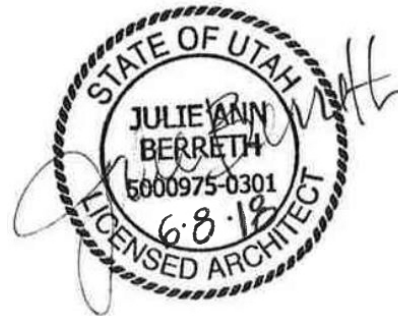




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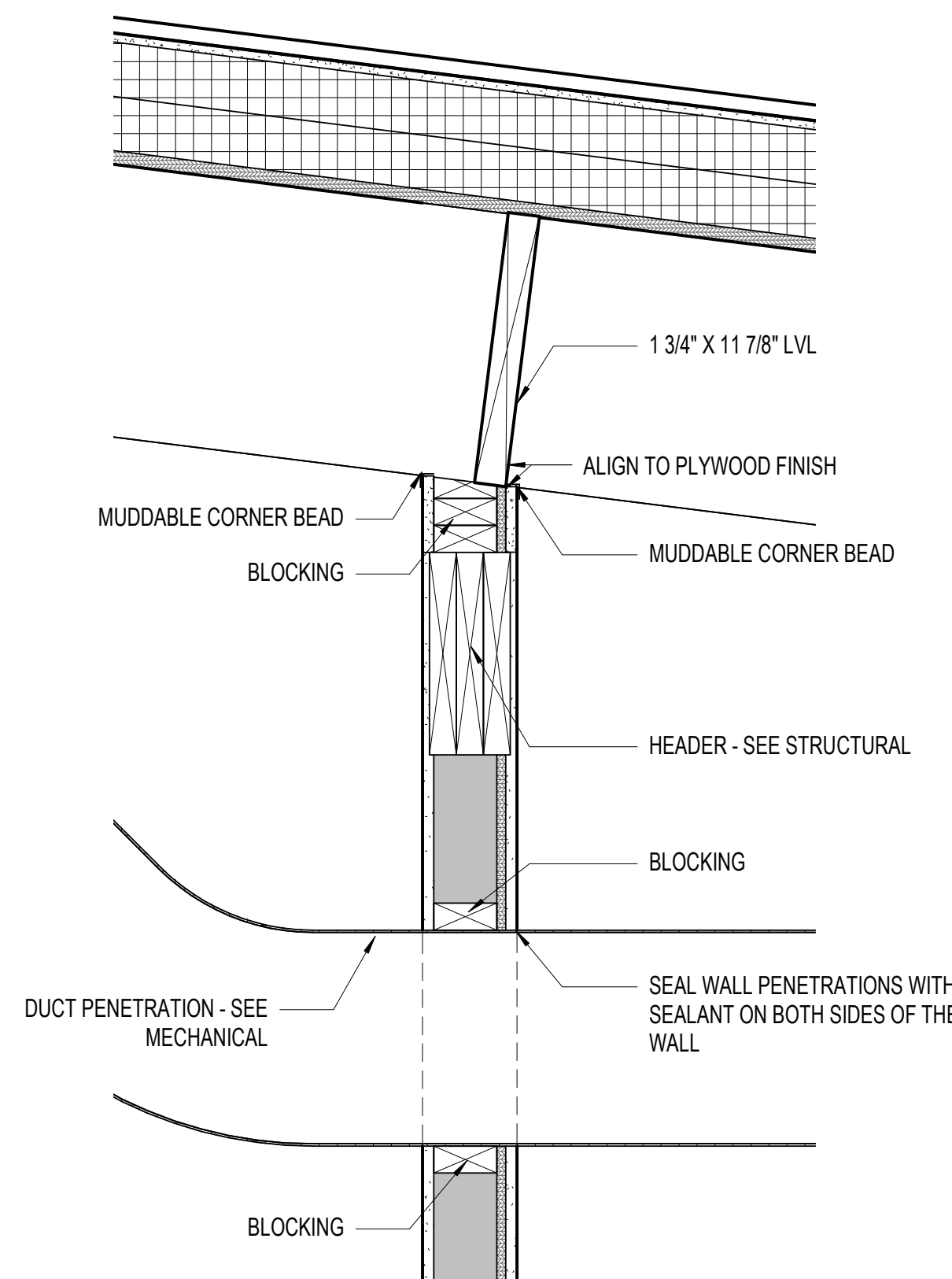
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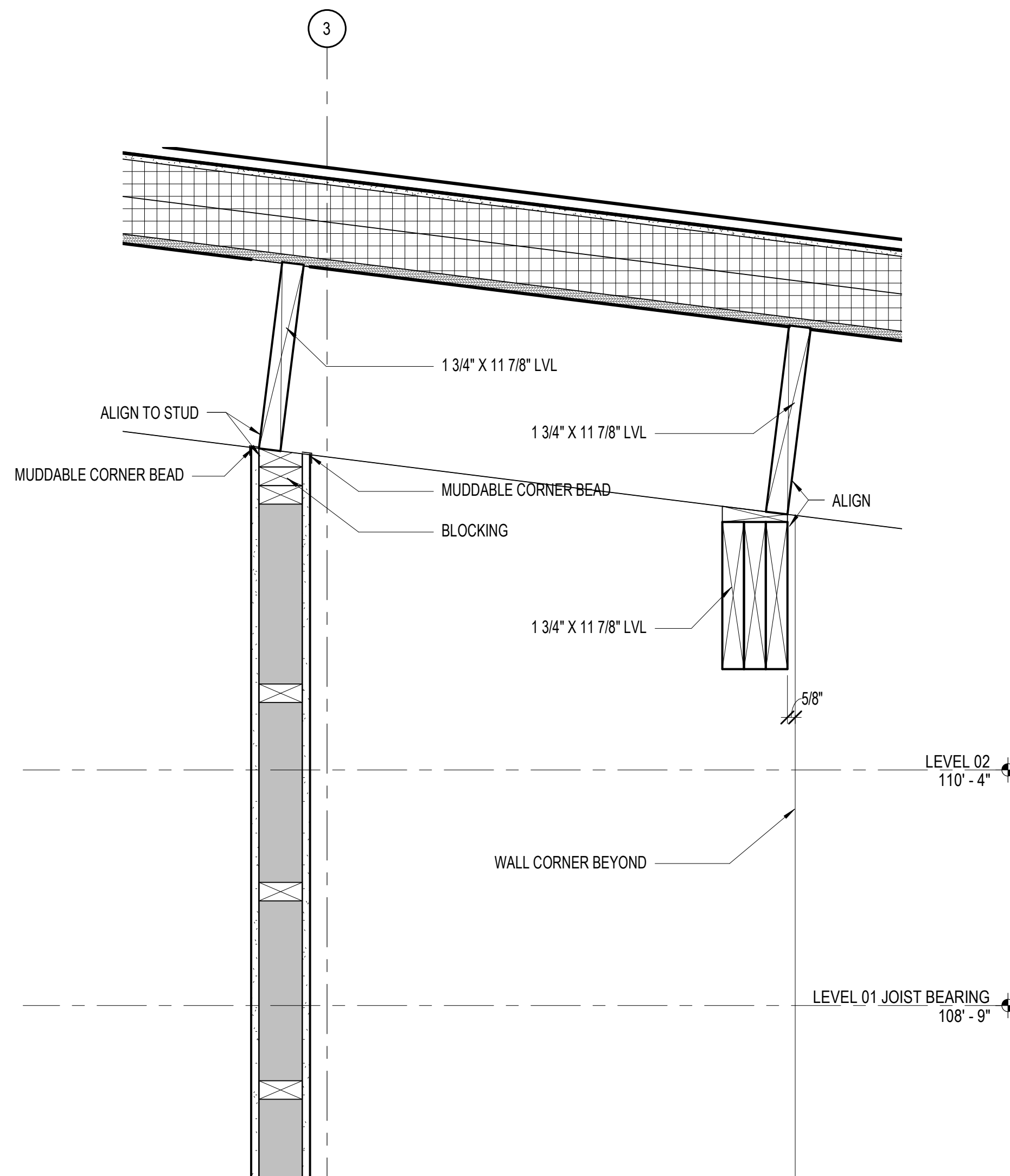
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SECTION  
DETAILS

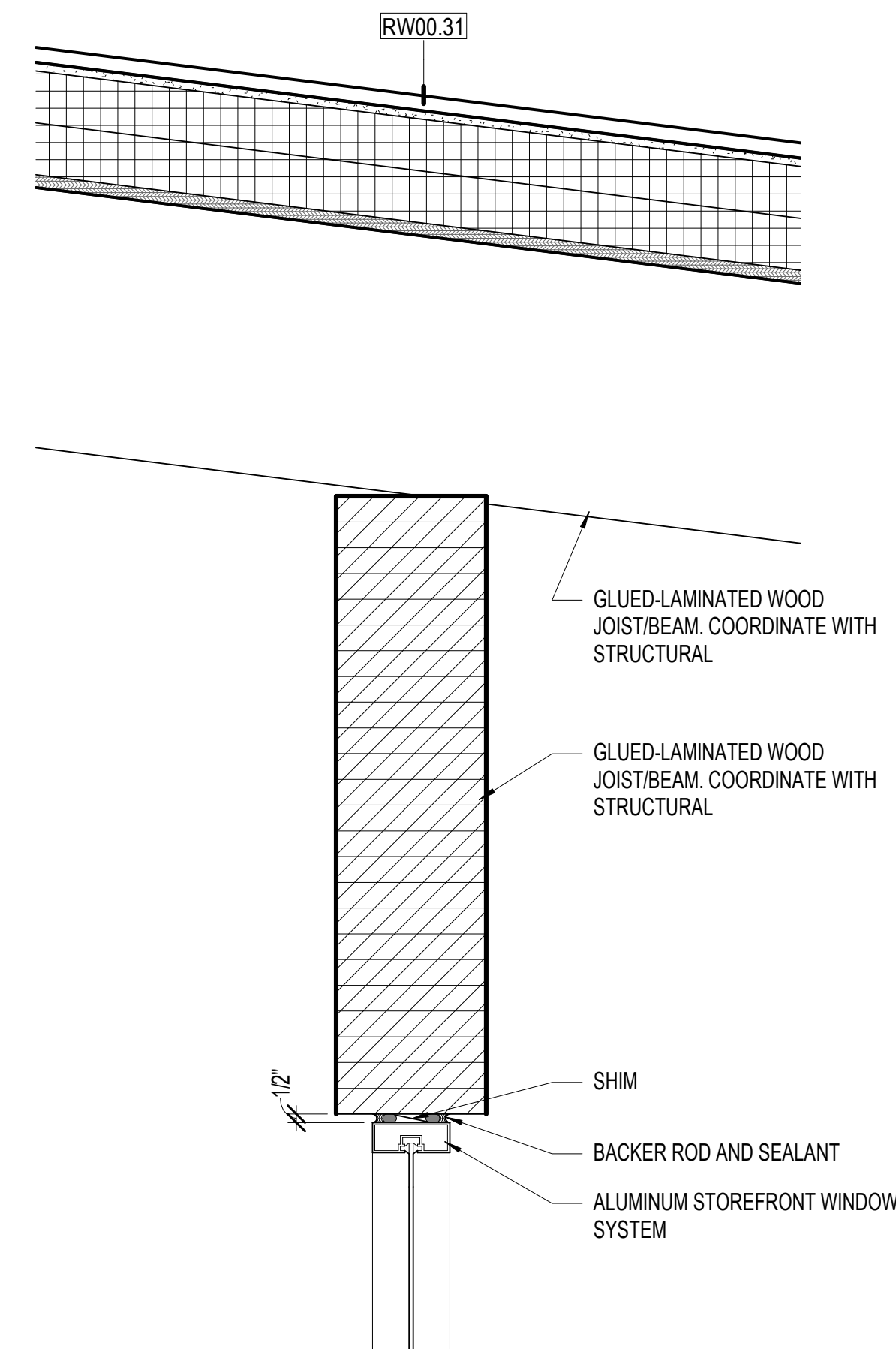
A512



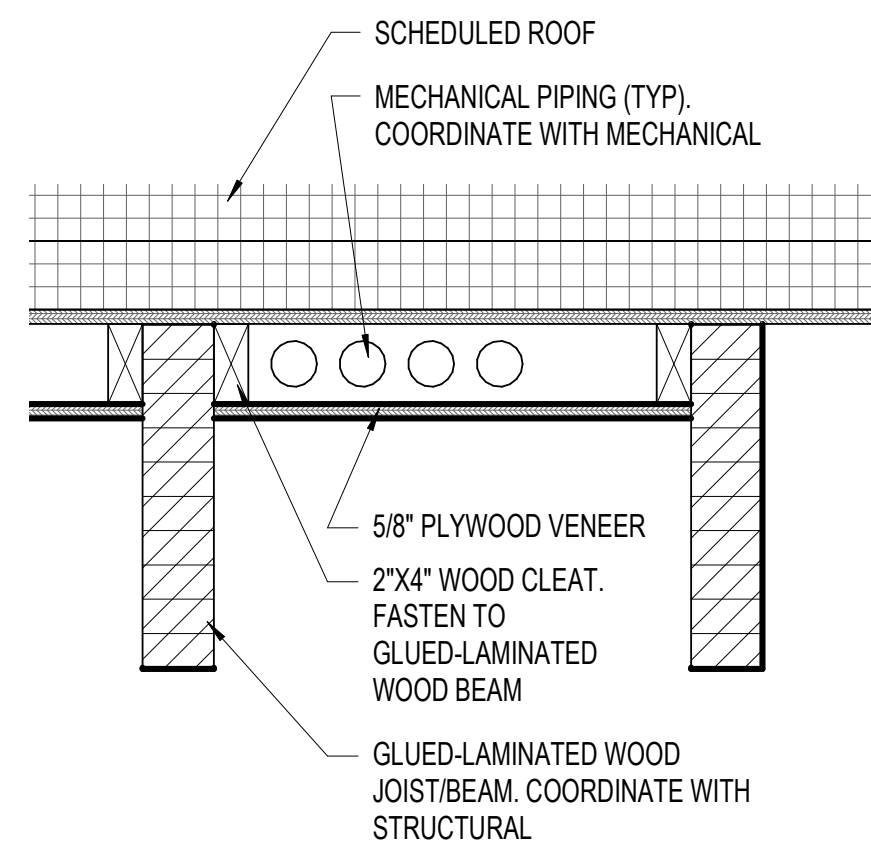
**C1** SECTION DETAIL - HEADER @ DUCT  
A512 1 1/2" = 1'-0"



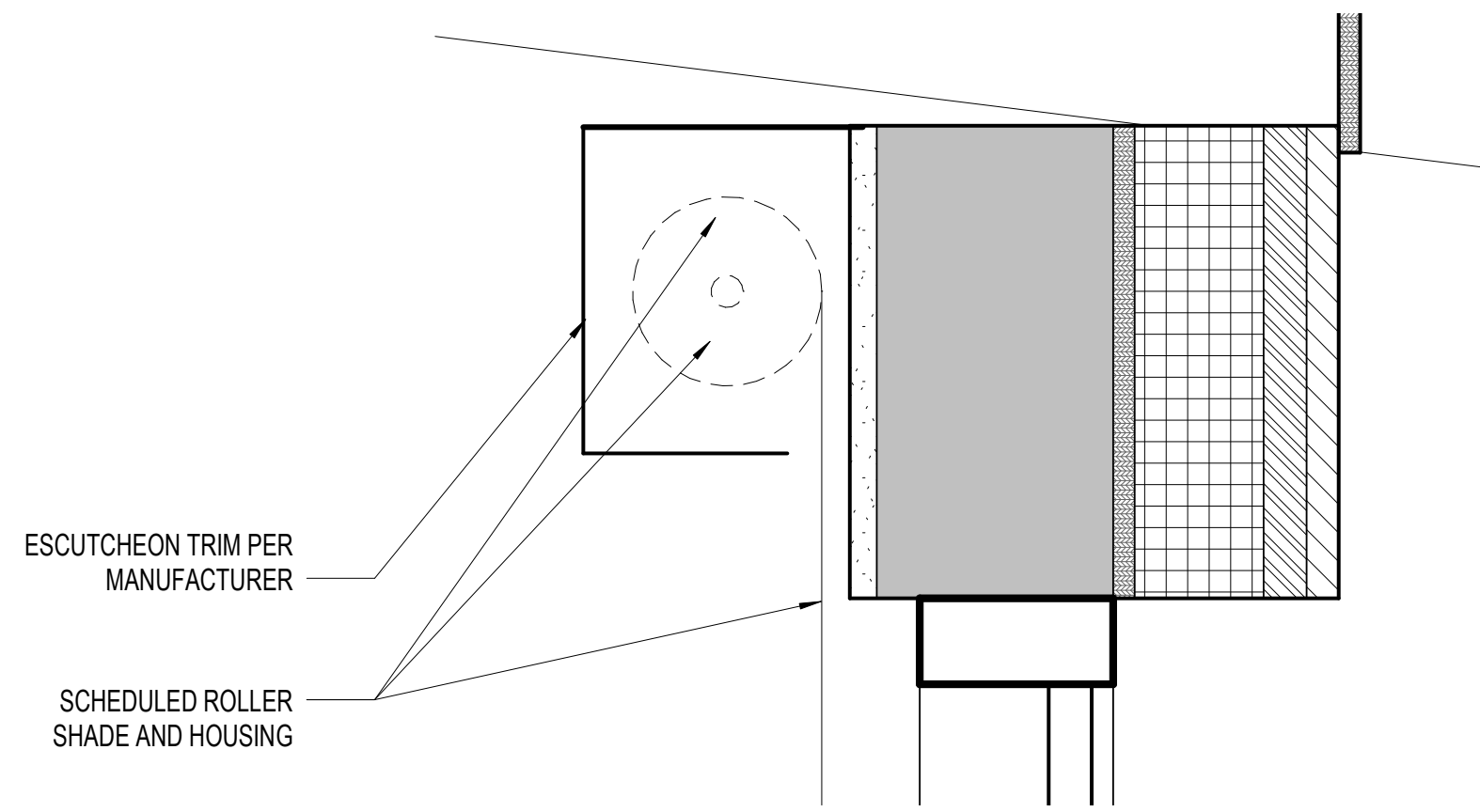
**C3** SECTION DETAIL - HEADER @ POCKET  
A512 1 1/2" = 1'-0"



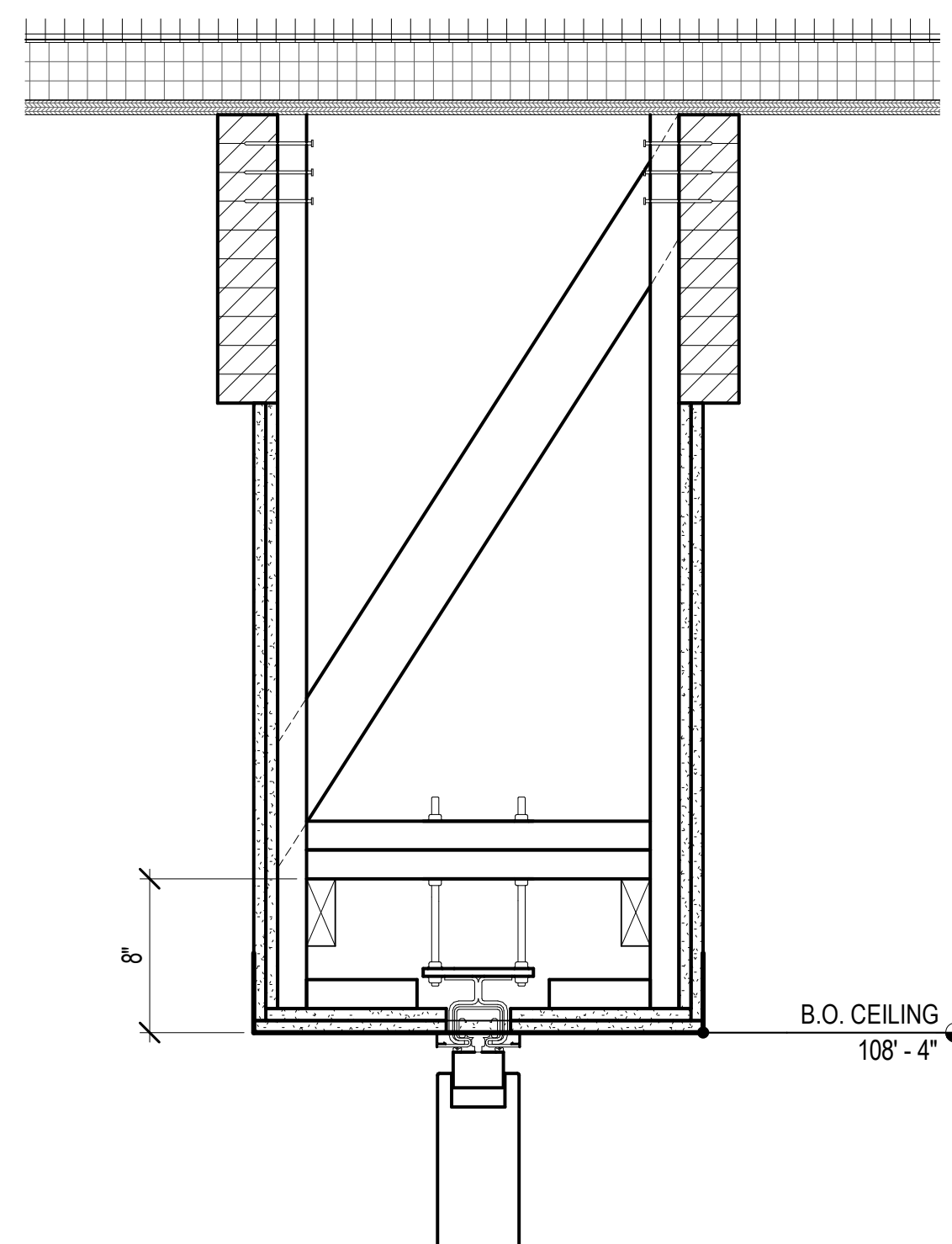
**C5** SECTION DETAIL - HEADER @ STOREFRONT  
A512 1 1/2" = 1'-0"



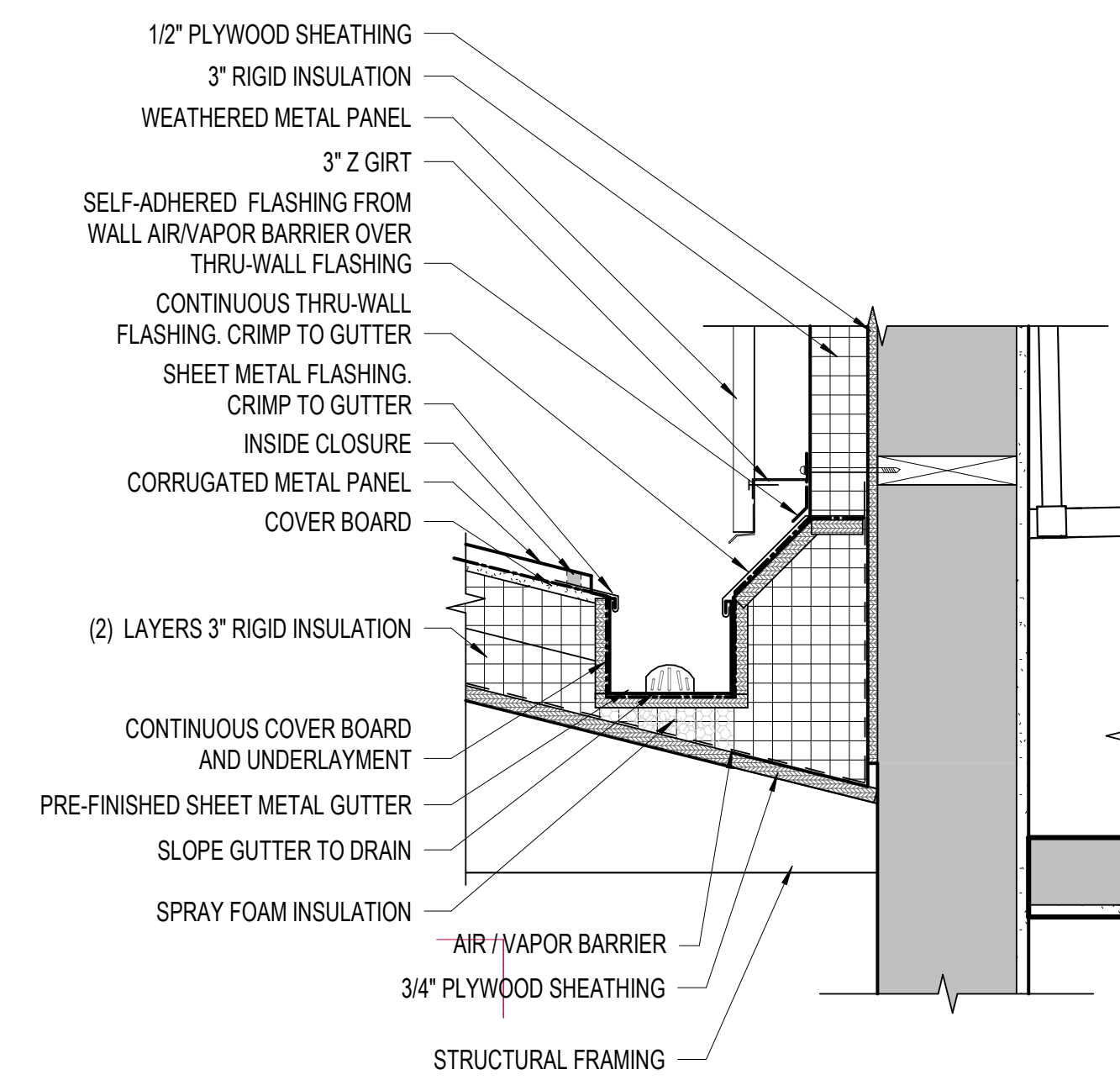
**A1** SECTION DETAIL - CEILING CHASE  
A512 1 1/2" = 1'-0"



**A2** SECTION DETAIL - MECHOSHADE  
A512 3" = 1'-0"



**A4** SECTION DETAIL - OPERABLE PARTITION  
A512 1 1/2" = 1'-0"



**A6** SECTION DETAIL - HIGH ROOF @ CRICKET  
A512 1 1/2" = 1'-0"





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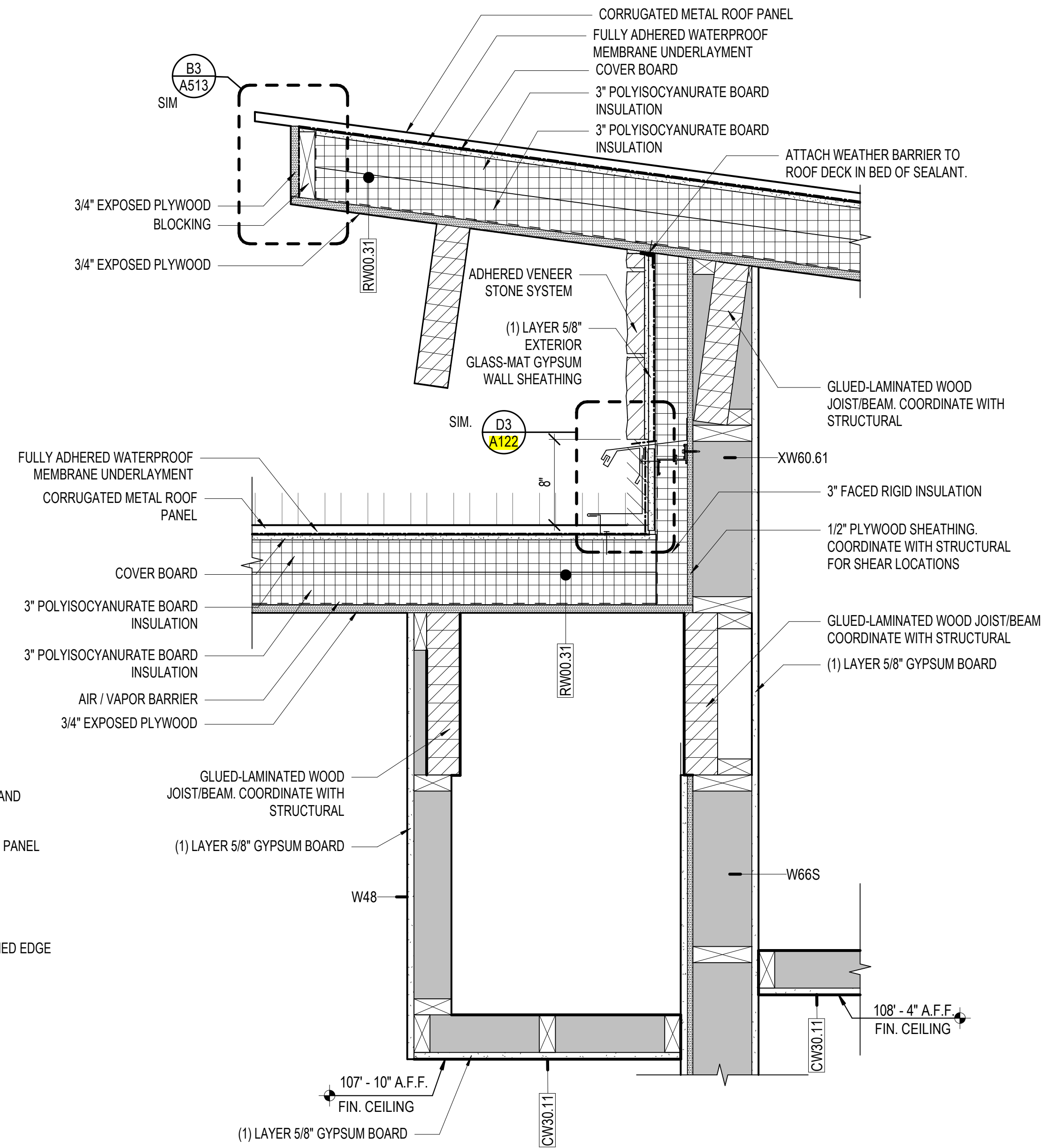
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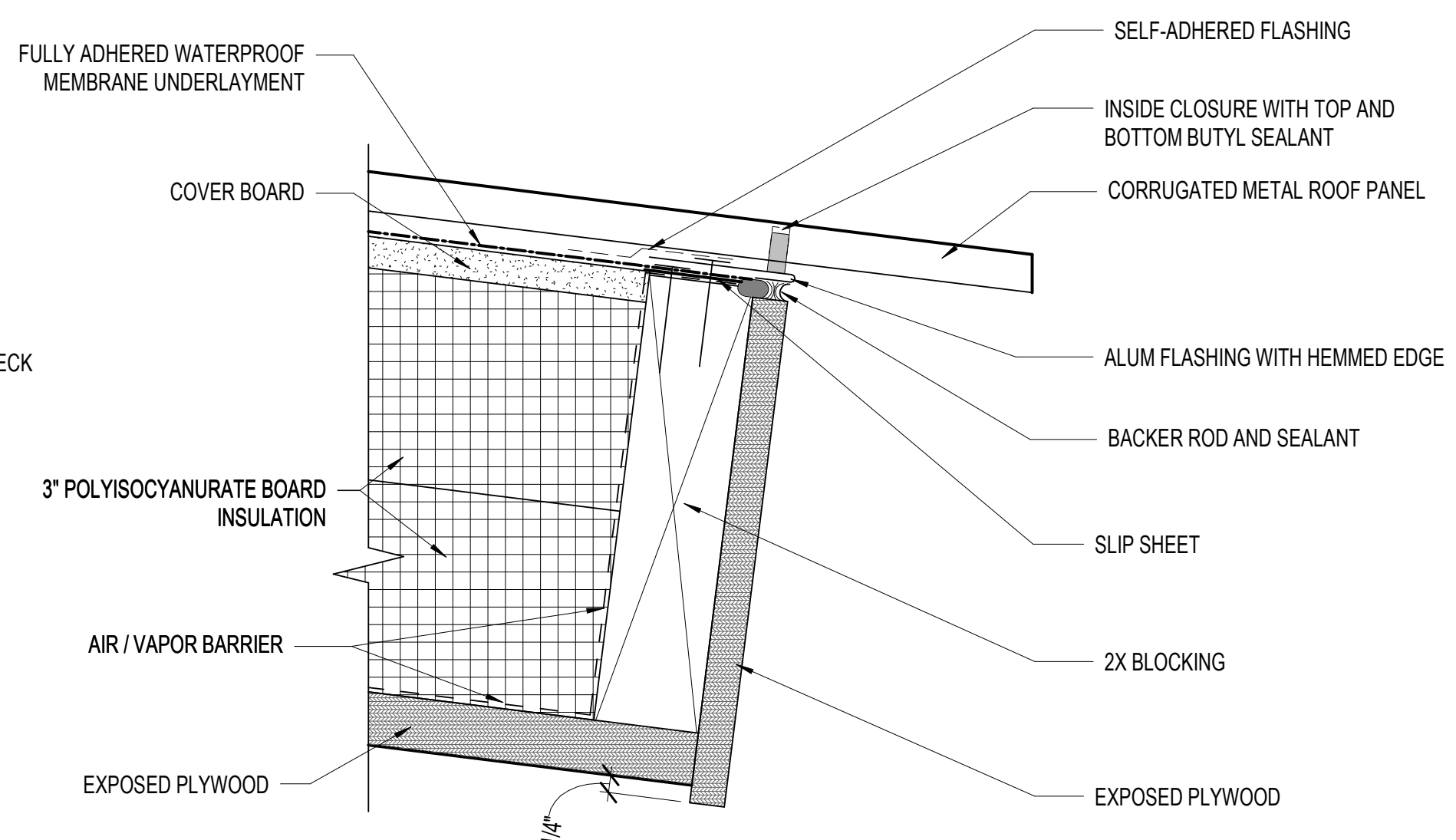
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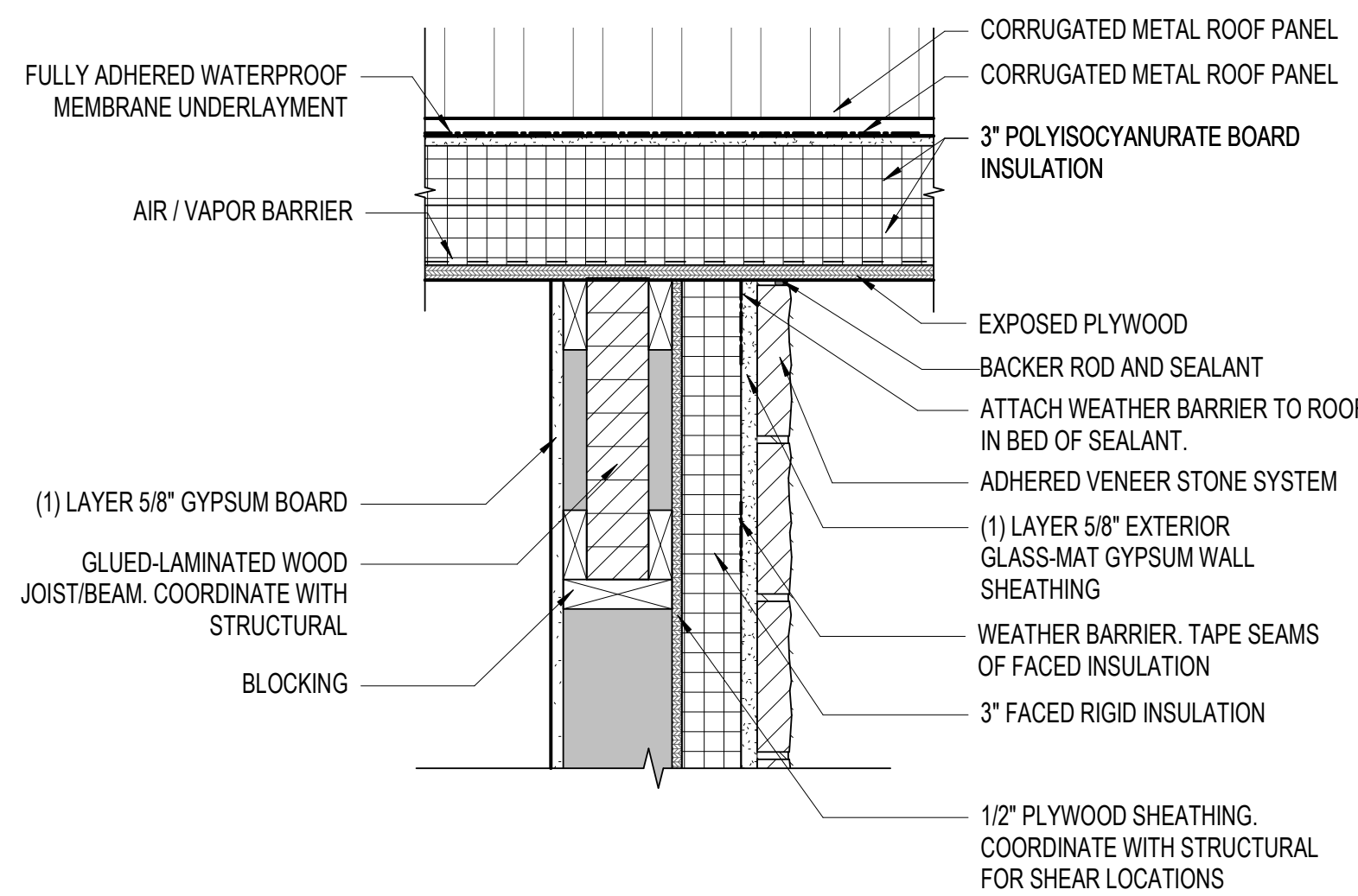
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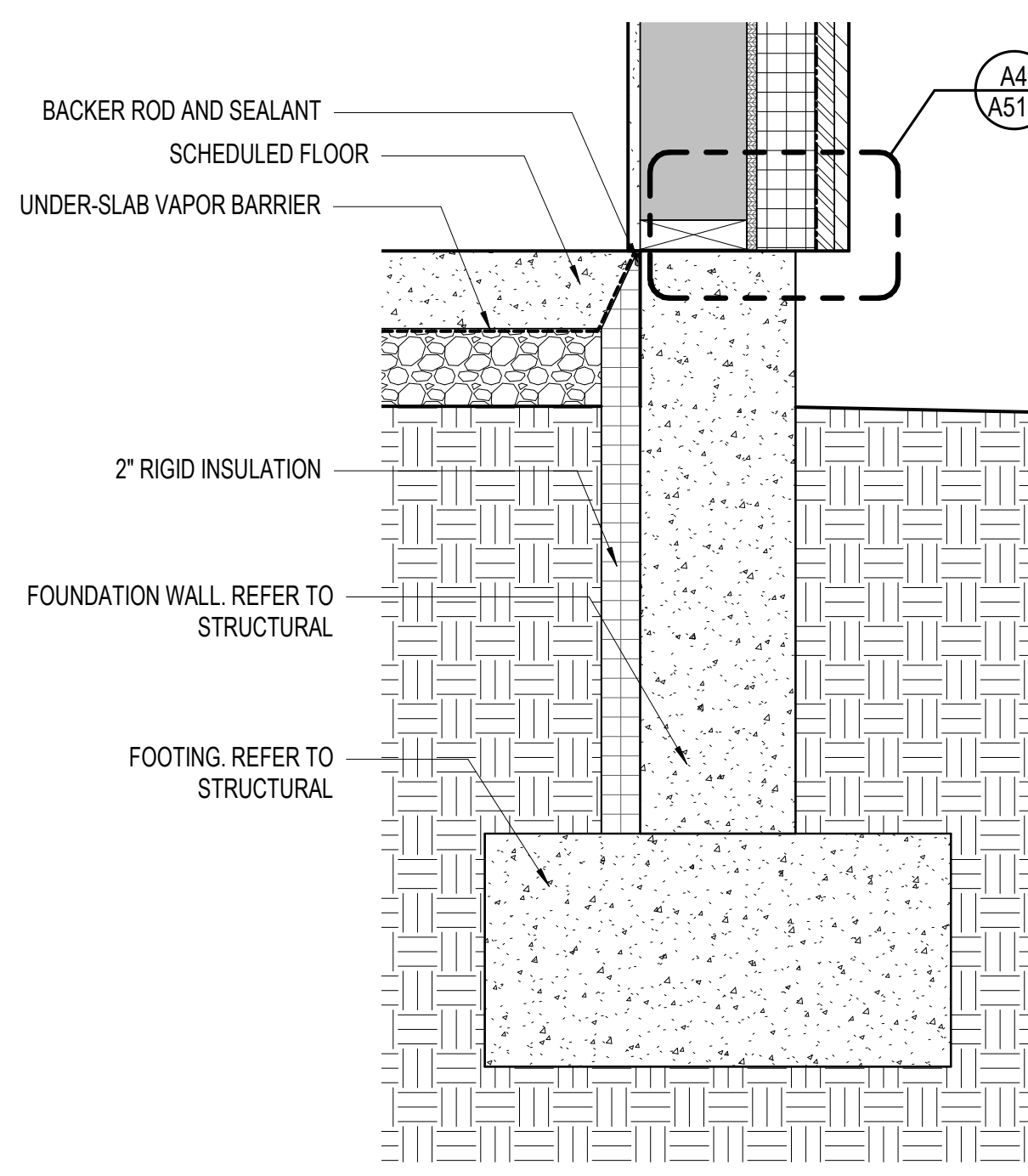
B5 SECTION DETAIL AT HIGH/LOW ROOF TRANSITION  
A513 1 1/2" = 1'-0"



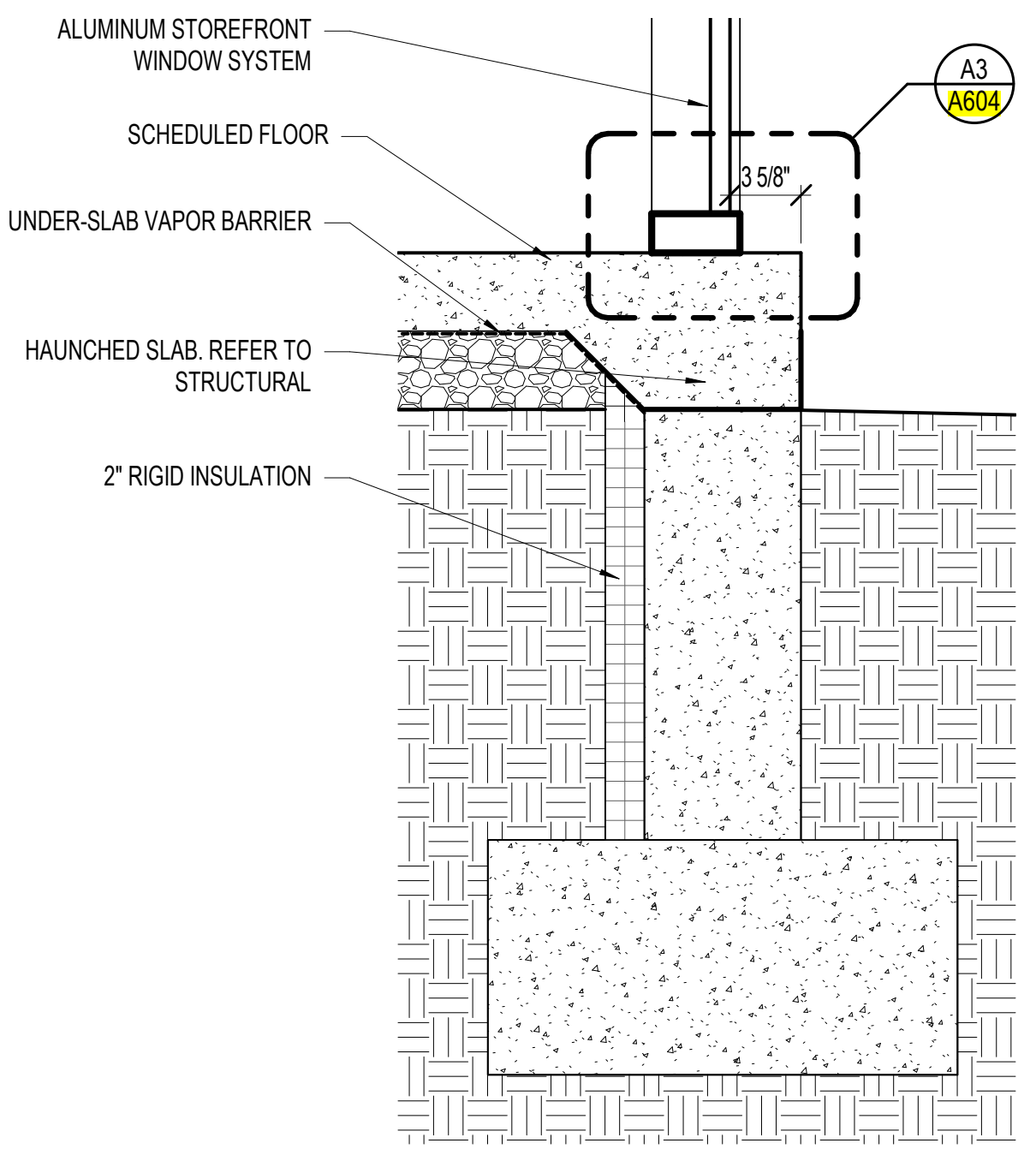
B3 ROOF EDGE DETAIL  
A513 6" = 1'-0"



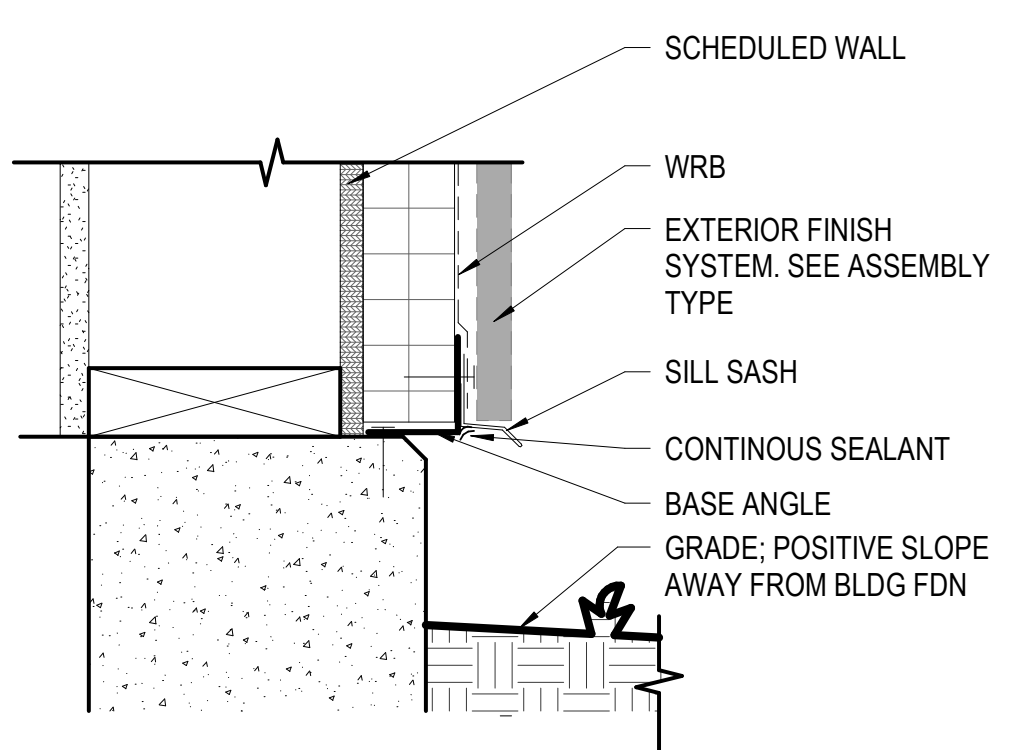
B1 SECTION DETAIL - WALL TO SOFFIT/DECK  
A513 1 1/2" = 1'-0"



A6 SECTION DETAIL - FOUNDATION WALL  
A513 1 1/2" = 1'-0"



SECTION DETAIL - FOUNDATION WALL @  
STOREFRONT  
A513 1 1/2" = 1'-0"



A4 WALL BASE DETAIL  
A513 3" = 1'-0"



EXPANSION JOINT SCHEDULE	
TYPE	REFERENCE
FE-J-1	FLOOR
	A6 / A521
	WALL
WEJ-1	B1 / A521
WEJ-2	B3 / A521
WEJ-3	B4 / A521
WEJ-4	B5 / A521
WEJ-5	
CEJ-1	CEILING
	C5 / A521
CEJ-2	C6 / A521
REJ-1	ROOF
	D4 / A521
REJ-2	D6 / A521



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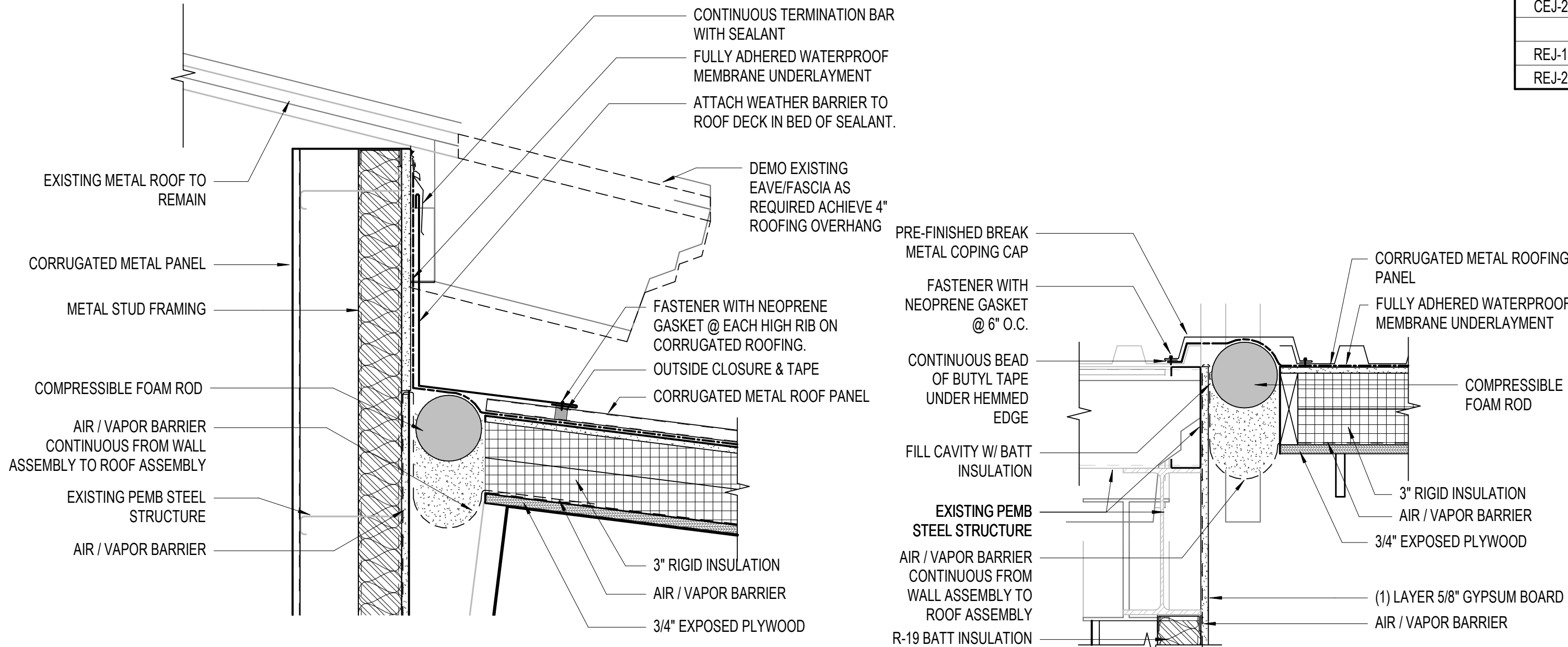
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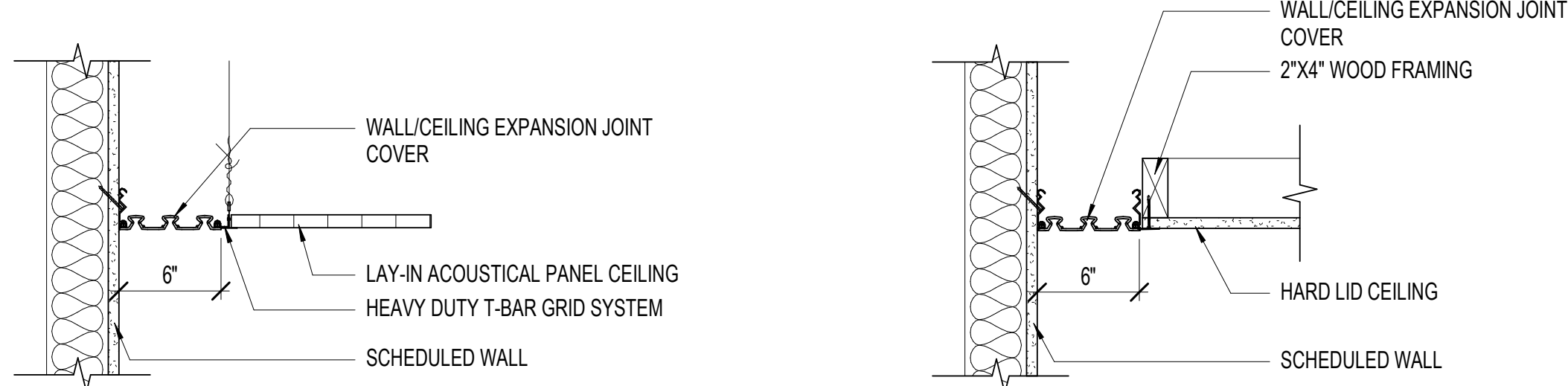
EXPANSION JOINT DETAILS

A521



D4 SECTION DETAIL - REJ-1  
A521 1 1/2" = 1'-0"

D6 SECTION DETAIL - REJ-2  
A521 1 1/2" = 1'-0"



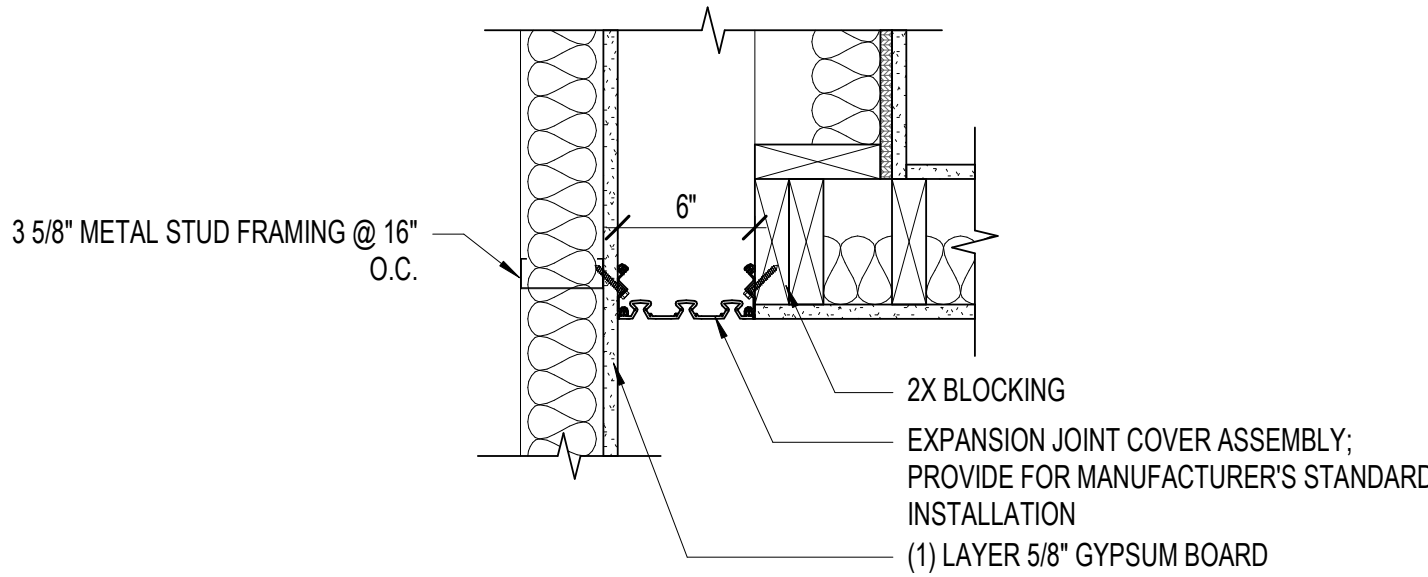
C5 SECTION DETAIL - CEJ-1  
A521 1 1/2" = 1'-0"

C6 SECTION DETAIL - CEJ-2  
A521 1 1/2" = 1'-0"

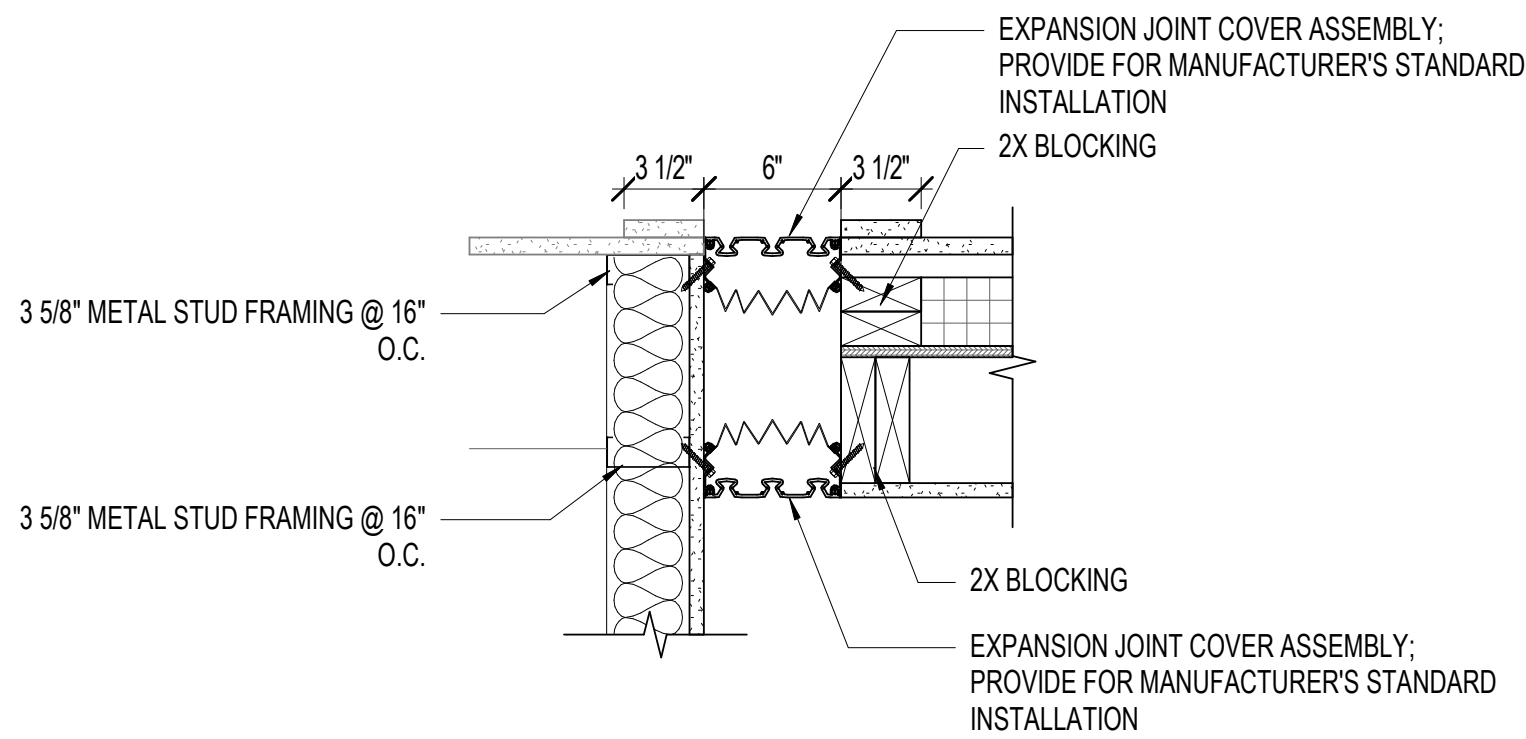


B1 PLAN DETAIL - WEJ-1  
A521 1 1/2" = 1'-0"

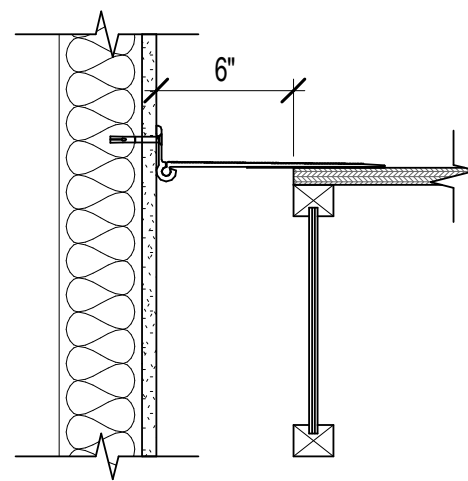
B3 PLAN DETAIL - WEJ-2  
A521 1 1/2" = 1'-0"



B4 PLAN DETAIL - WEJ-3  
A521 1 1/2" = 1'-0"



B5 PLAN DETAIL - WEJ-4  
A521 1 1/2" = 1'-0"



A6 SECTION DETAIL - FEJ-1  
A521 1 1/2" = 1'-0"

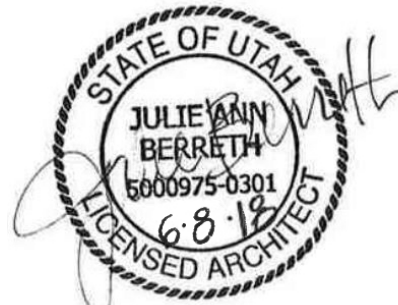




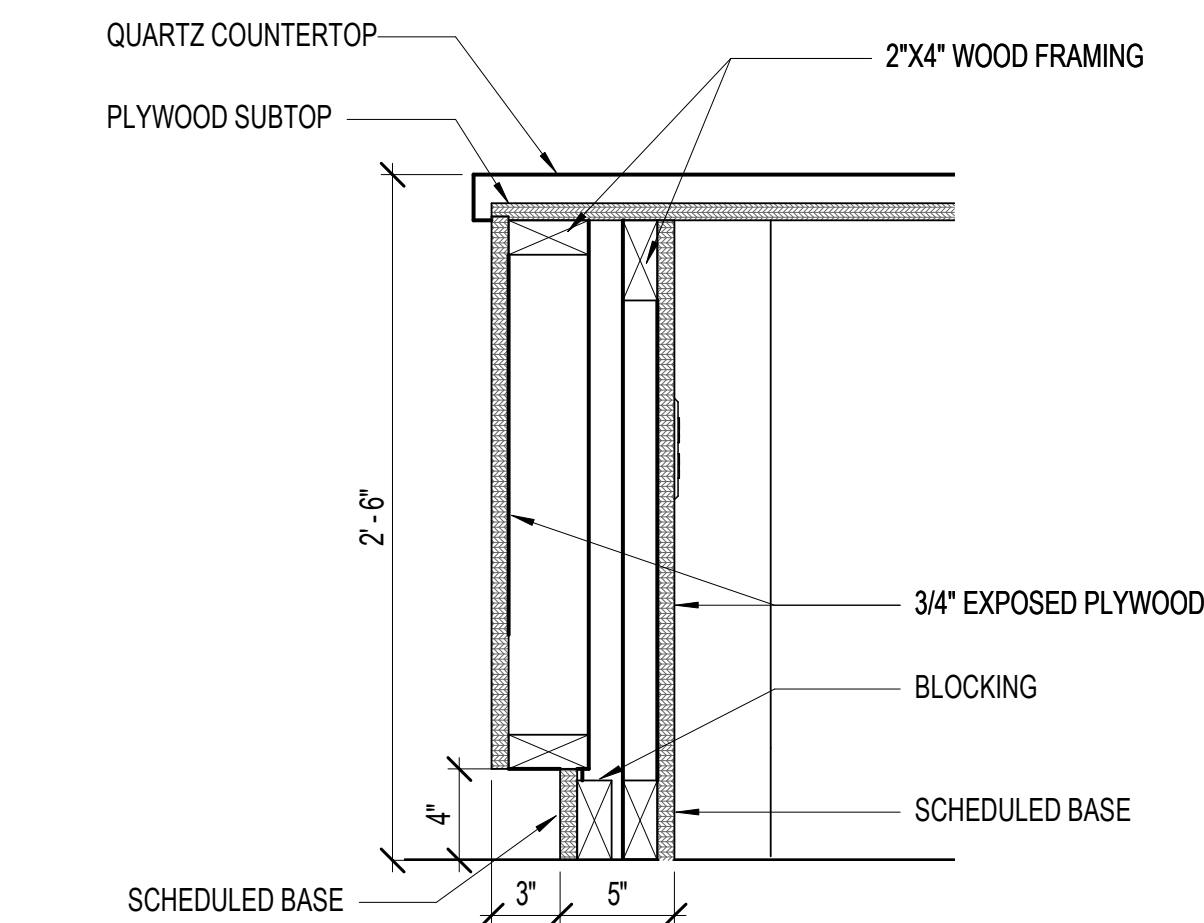
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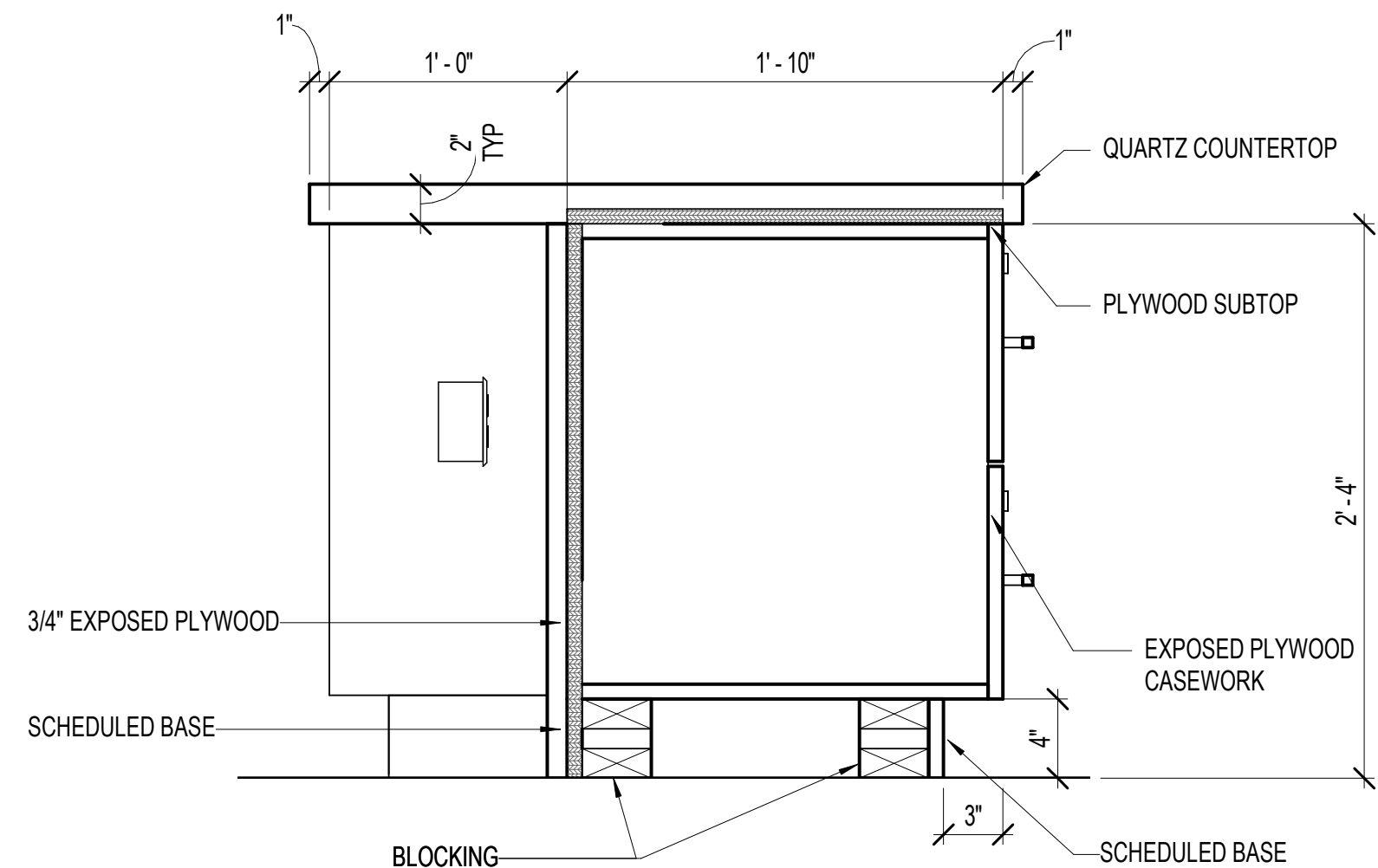
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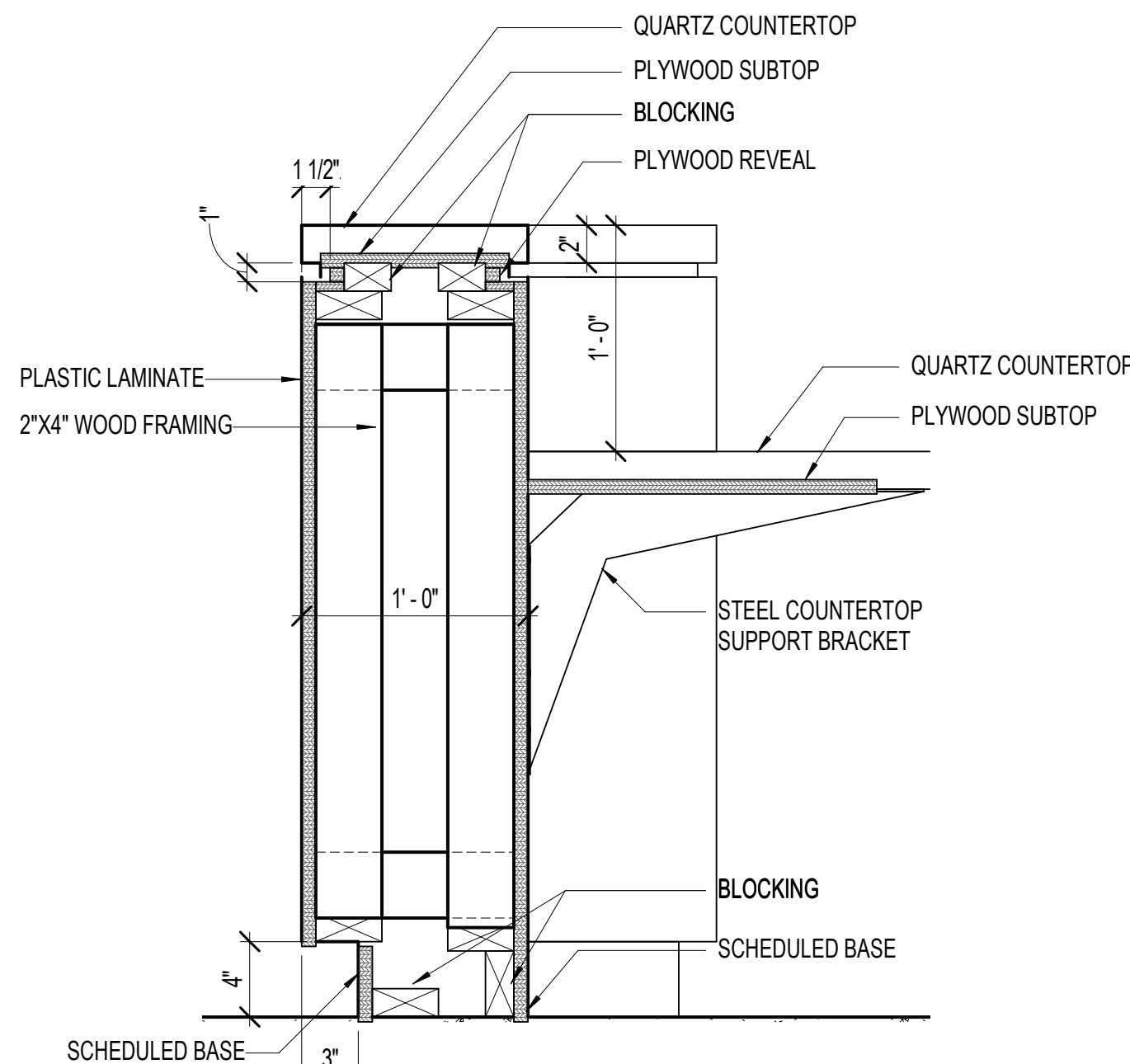
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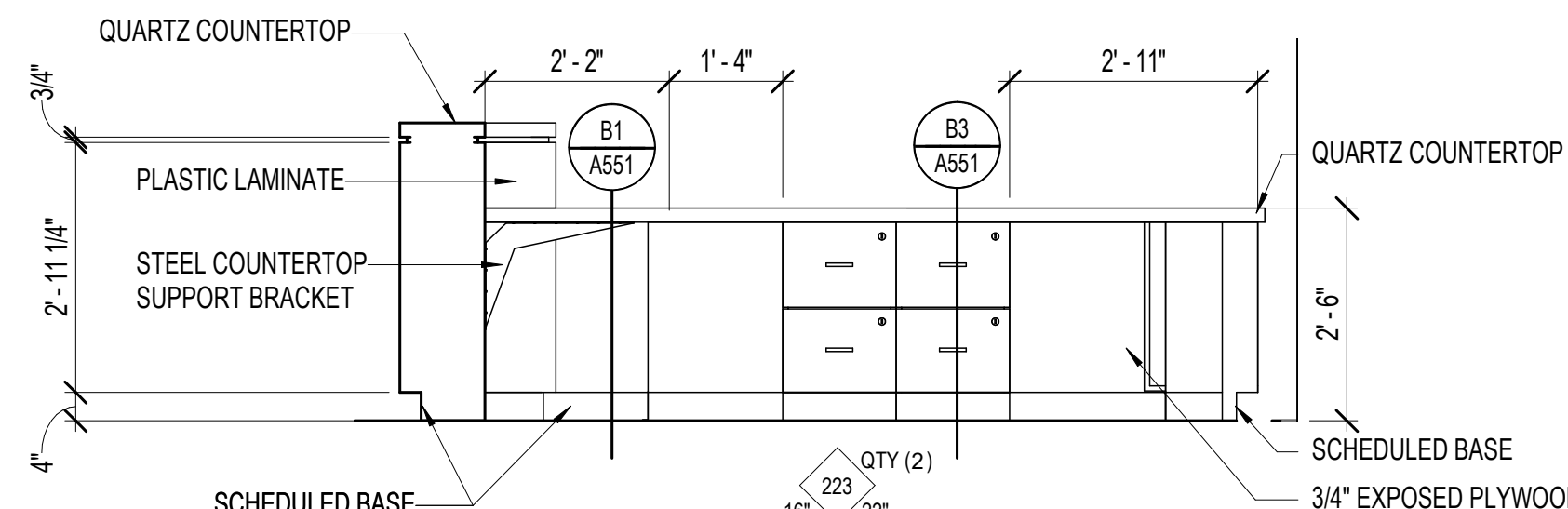
**B1 CHECK-IN DESK - SECTION 4**  
A551 1 1/2" = 1'-0"



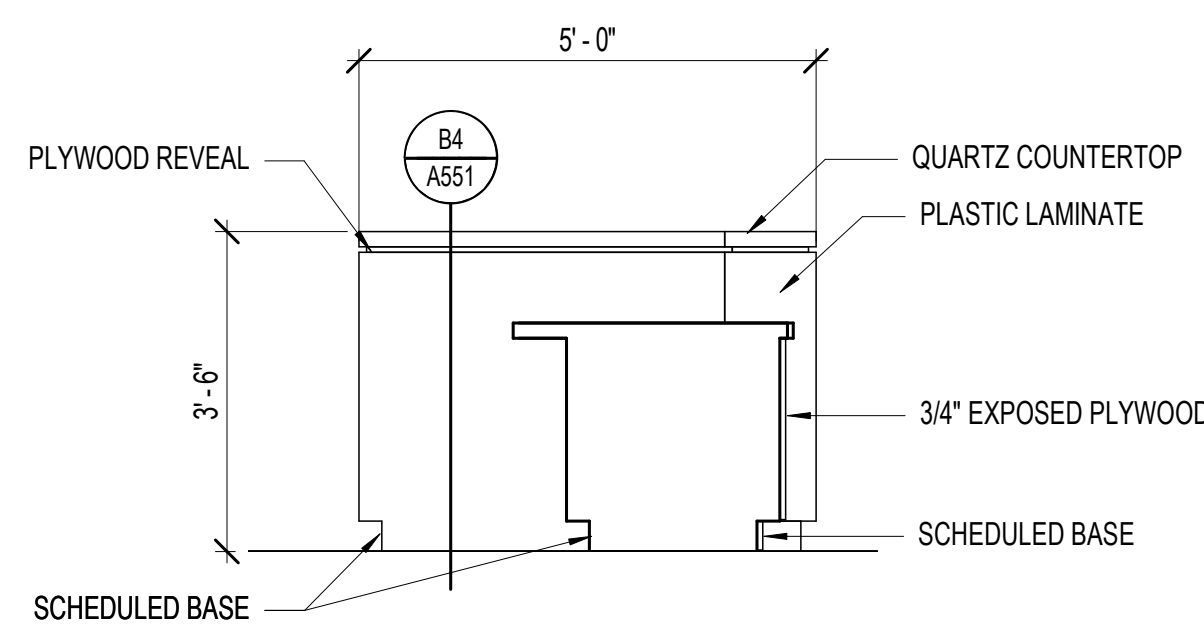
**B3 CHECK-IN DESK - SECTION 2**  
A551 1 1/2" = 1'-0"



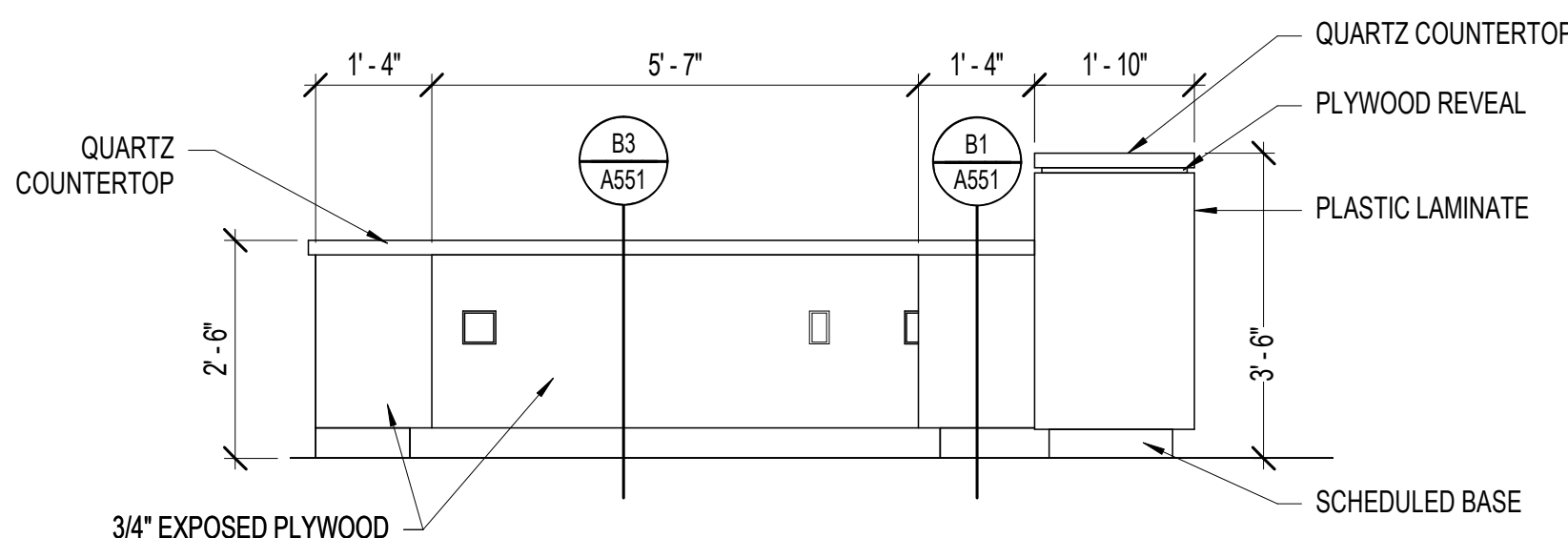
**B4 CHECK-IN DESK - SECTION 1**  
A551 1 1/2" = 1'-0"



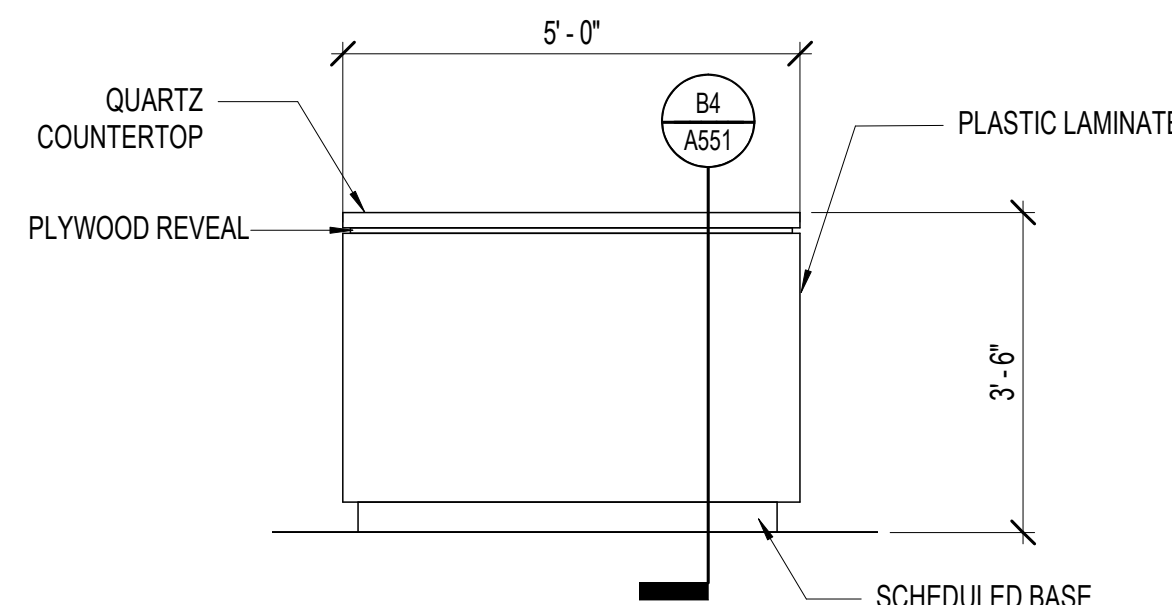
**B6 CHECK-IN DESK WEST**  
A551 1/2" = 1'-0"



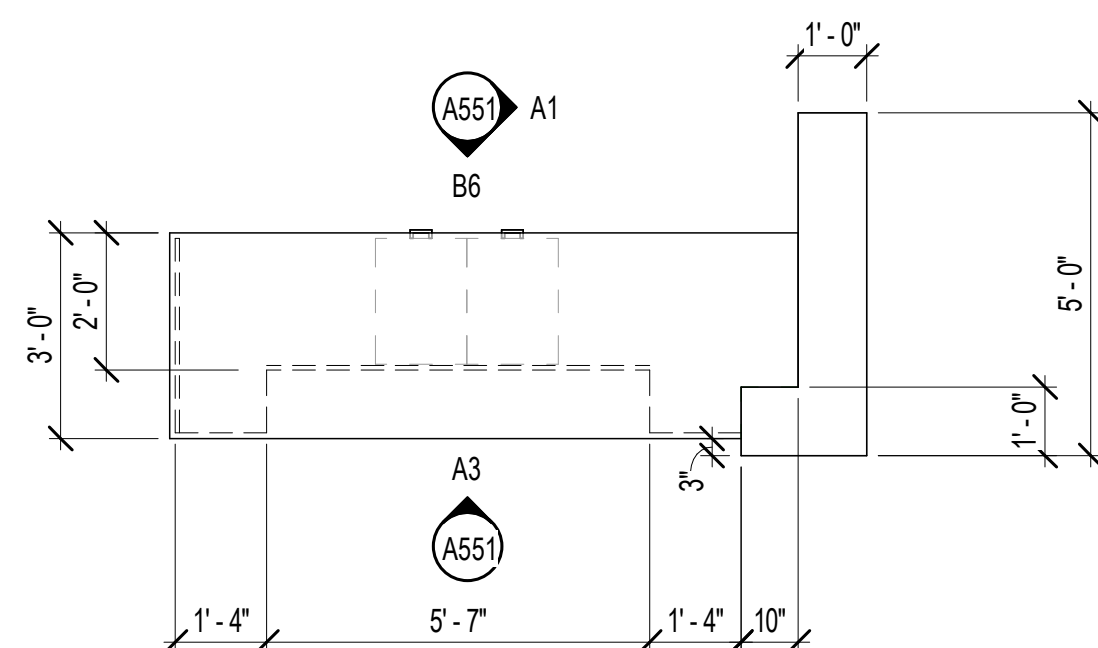
**A1 CHECK-IN DESK - SOUTH**  
A551 1/2" = 1'-0"



**A3 CHECK-IN DESK EAST**  
A551 1/2" = 1'-0"



**A4 CHECK-IN DESK - NORTH**  
A551 1/2" = 1'-0"



**A6 CHECK-IN DESK - LEVEL 01**  
A551 3/8" = 1'-0"

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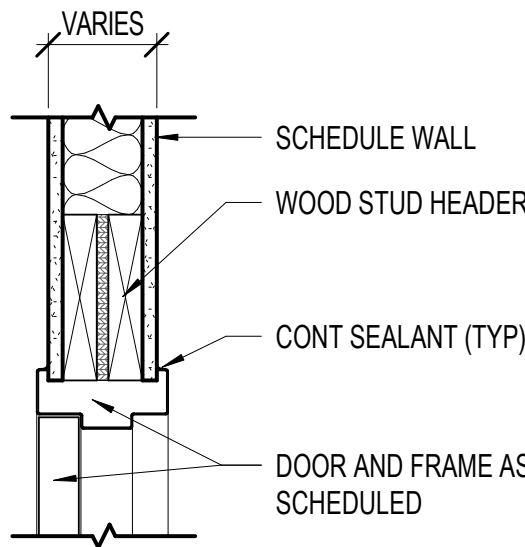
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DRAWN BY: CS  
DATE: 06.08.18

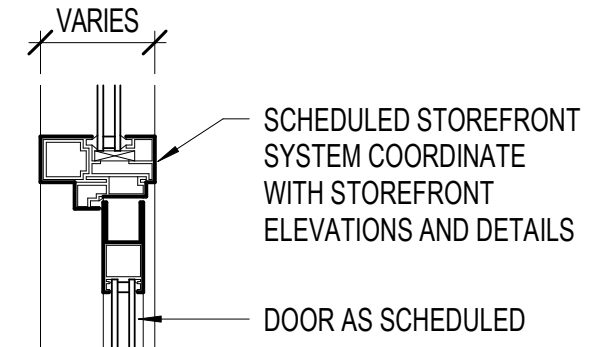
MILLWORK  
PLANS,  
ELEVATIONS  
AND DETAILS

A551

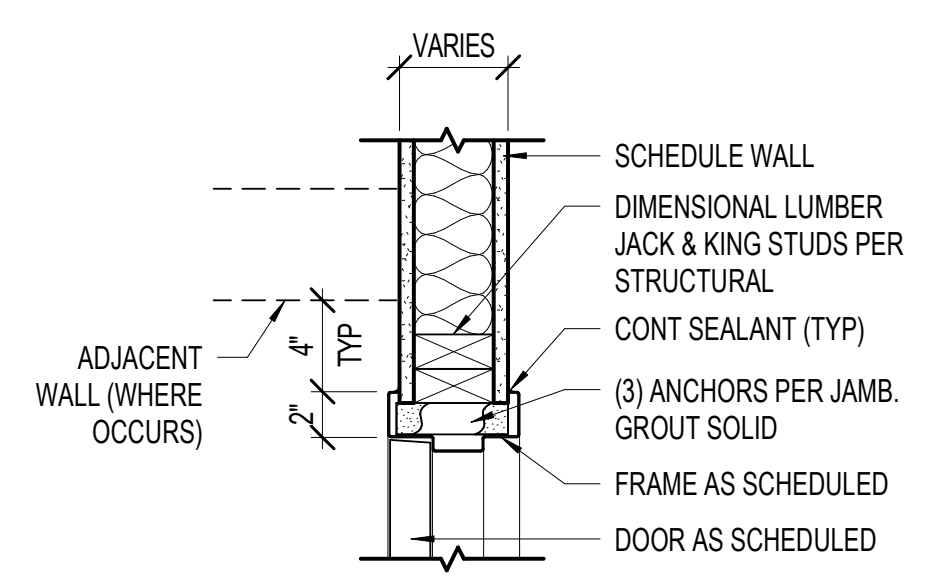




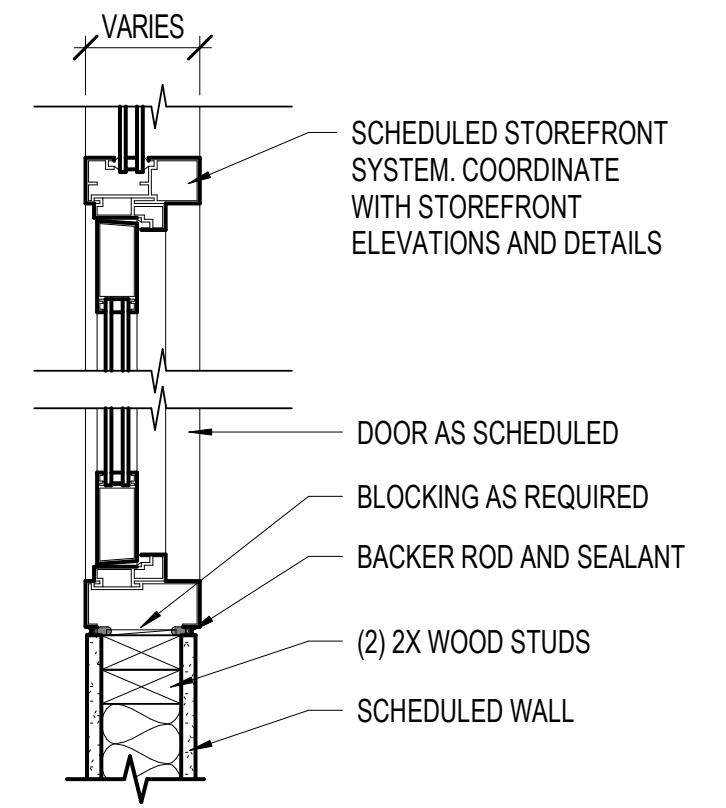
E1 HEAD DETAIL  
A601 1 1/2" = 1'-0"



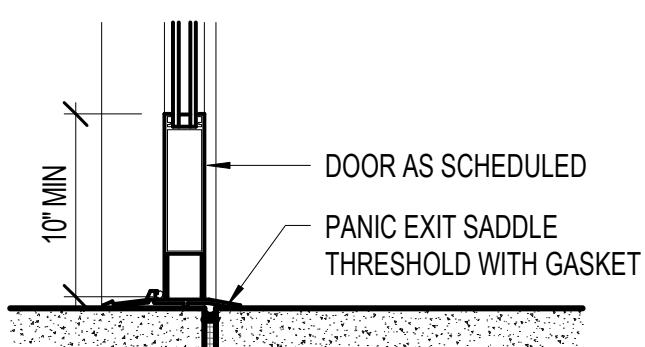
E2 HEAD DETAIL - STOREFRONT DOOR  
A601 1 1/2" = 1'-0"



D1 JAMB DETAIL  
A601 1 1/2" = 1'-0"



D2 JAMB DETAIL - STOREFRONT DOOR  
A601 1 1/2" = 1'-0"



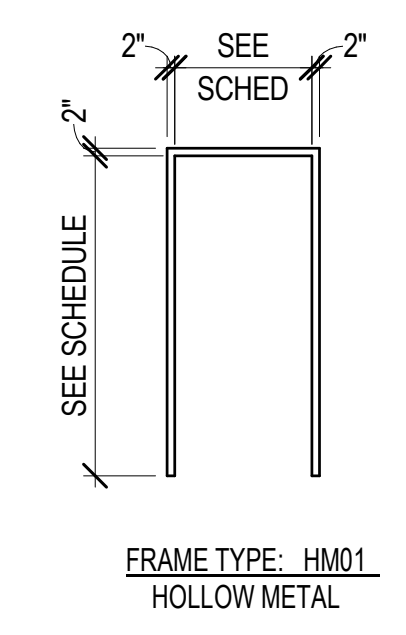
C2 SILL DETAIL - STOREFRONT DOOR  
A601 1 1/2" = 1'-0"

DOOR SCHEDULE													
wt	DOOR				FRAME				FIRE RATING	GLAZING	HARDWARE GROUP	NOTES	NUMBER
	SIZE		TYPE	FINISH	DETAIL		TYPE	FINISH					
	WIDTH	HEIGHT			HEAD	JAMB							
100a	3'-4"	7'-0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-	5	100a
100b	3'-5"	7'-0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-	5	100b
100c	12'-0"	14'-0"	OH01	PF	-	D3/A604	-	-	-	-	-	1	100c
100d	3'-5"	7'-0"	HS01	PX1	-	D5/A604	-	HM01	PX1	-	-	5	100d
101a	6'-0"	7'-8"	AP01	AL	C5/A604 SIM	D2/A601 SIM	B2/A601	F	AL	-	G2	3.4	101a
101b	6'-0"	7'-8"	AP01	AL	E2/A601	D2/A601	-	IG	AL	-	G6	4	101b
102a	2'-6"	6'-8"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	45 MIN	-	-	102a
103	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	103
108	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	108
109	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	109
110	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	110
112a	3'-6"	7'-8"	AS01	AL	C5/A604 SIM	B5/A604 SIM	B2/A601	K	AL	-	G2	3.4	112a
112b	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	112b
112c	3'-0"	7'-8"	AS01	AL	D1/A604 SIM	C1/A604 SIM	-	IL	AL	-	G4	-	112c
113	3'-6"	7'-8"	HS01	PX1	-	D2/A604	-	HM01	PX1	-	-	-	113
115a	6'-0"	7'-8"	AP01	AL	D1/A604 SIM	C1/A604 SIM	-	IC	AL	-	G4	4	115a
115b	6'-0"	7'-8"	AP01	AL	D1/A604 SIM	C1/A604 SIM	-	IA	AL	-	G4	4	115b
116	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	4	116
116a	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	116a
117	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	4	117
117a	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	117a
118a	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	IF	AL	-	G6	-	118a
118b	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	IF	AL	-	G6	-	118b
119a	3'-0"	7'-8"	HS03	PX2	-	C4/A604	-	HM01	PX2	-	-	-	119a
119b	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	119b
121	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	121
122	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	122
123a	6'-0"	7'-8"	AP01	AL	C5/A604 SIM	D2/A601	B2/A601	C	AL	-	G2	3.4	123a
123b	6'-0"	7'-8"	AP01	AL	E2/A601	D2/A601	-	IE	AL	-	G6	4	123b
124a	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124a
124b	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124b
124c	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124c
124d	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124d
124e	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124e
124f	3'-0"	7'-8"	WS02	WD	E2/A601	D2/A601	-	ID	AL	-	G6	-	124f
124g	29'-1"	8'-4"	OP01	-	A4/A512	-	-	-	-	-	-	2	124g
124h	29'-1"	8'-4"	OP01	-	A4/A512	-	-	-	-	-	-	2	124h
125	6'-0"	7'-0"	WP01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	125
126a	3'-0"	7'-8"	AS01	AL	C5/A604 SIM	B5/A604 SIM	B2/A601	A	AL	-	G2	3.4	126a
126b	3'-0"	7'-8"	AS01	AL	E2/A601	D2/A601	-	IR	AL	-	G6	4	126b
127	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	127
128	3'-0"	7'-8"	HS01	PX2	-	C4/A604 SIM	-	HM01	PX2	-	-	-	128
204	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	204
205	3'-0"	7'-0"	WS01	WD	E1/A601	D1/A601	-	HM01	PT2	-	-	-	205
206	3'-0"	7'-0"	WS02	WD	E1/A601	D1/A601	-	HM01	PT2	-	G6	-	206
206a	3'-6"	7'-5"	HS02	PX2	-	C4/A604 SIM	-	HM01	PX2	-	-	3.6	206a
207	3'-0"	7'-0"	WS02	WD	E1/A601	D1/A601	-	HM01	PT2	-	G6	-	207
208	3'-0"	7'-0"	WS02	WD	E1/A601	D1/A601	-	HM01	PT2	-	G6	-	208
209	3'-0"	7'-0"	HS01	PX1	-	D2/A604	-	HM01	PX1	-	-	-	209

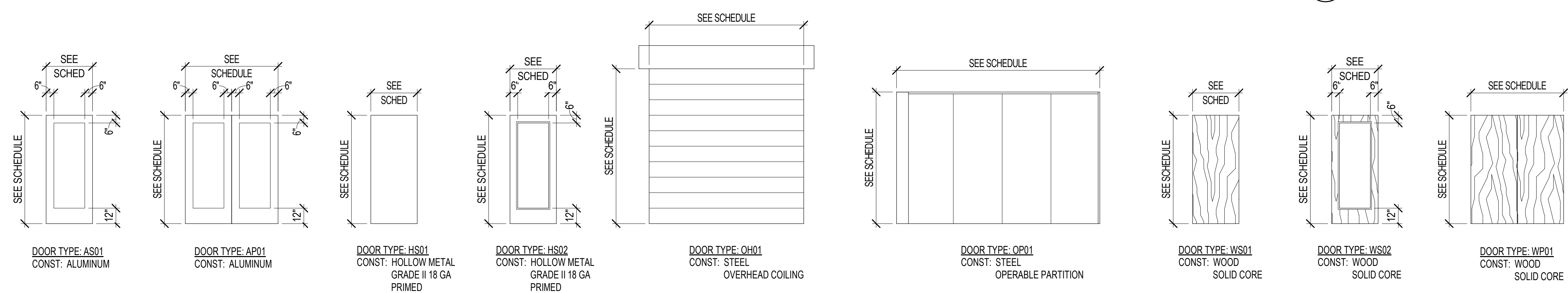
DOOR SCHEDULE NOTES	
1	OVERHEAD COILING DOOR, BASIS OF DESIGN: CORNELL; ROLLING DOOR, SERVICE DOOR ESD10, FRAME AND HARDWARE BY MANUFACTURER
2	OPERABLE PARTITION, BASIS OF DESIGN: MODERNFOLD; ACOUSTI-SEAL, ENCORE - PAIRED PANEL; STC 52, FINISH TO BE SELECTED
3	PROVIDE ACCESS CONTROL
4	PROVIDE DOOR ACTUATOR AND AUTO OPENER
5	NEW HOLLOW METAL DOOR AND FRAME TO MATCH EXISTING ARENA DOOR AND PANEL SYSTEM. OPENING SIZE TO FIT WITHIN EXISTING PANEL. FIELD VERIFY
6	DOOR HEIGHT TO ALIGN WITH EXTERIOR FIBER CEMENT BATTEN. FIELD VERIFY
-	

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

GLAZING SCHEDULE	
G1	1" INSULATED, CLEAR
G2	1" INSULATED, TEMPERED, CLEAR
G3	1" INSULATED, ONE-WAY MIRROR GLASS
G4	1" INSULATED, TEMPERED, ONE-WAY MIRROR GLASS
G5	1/4" CLEAR
G6	1/4" TEMPERED, CLEAR
-	



B6 FRAME TYPES - HOLLOW METAL  
A601 1/4" = 1'-0"



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

GENERAL NOTE -  
DOOR & WINDOW

A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES

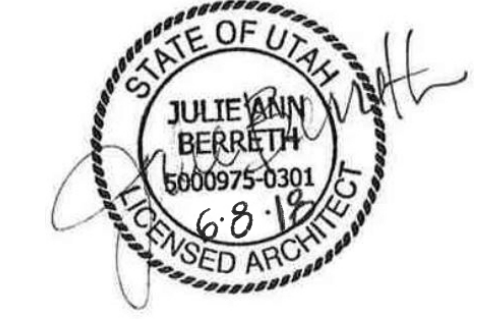
B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS

C. DOOR LITE DIMENSIONS SHOWN REPRESENT THE FINISHED CLEAR GLAZED OPENING BETWEEN TRIM KIT ELEMENTS



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NATIONAL ABILITY CENTER  
EQUESTRIAN CENTER EXPANSION  
1000 ABILITY WAY  
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# Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

DOOR SCHEDULE AND TYPES

A601



GENERAL NOTE -  
DOOR & WINDOW

- 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

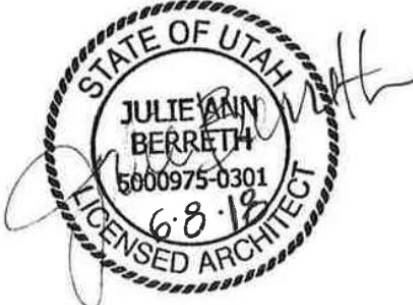
GLAZING SCHEDULE	
G1	1" INSULATED, CLEAR
G2	1" INSULATED, TEMPERED, CLEAR
G3	1" INSULATED, ONE-WAY MIRROR GLASS
G4	1" INSULATED, TEMPERED, ONE-WAY MIRROR GLASS
G5	1/4" CLEAR
G6	1/4" TEMPERED, CLEAR



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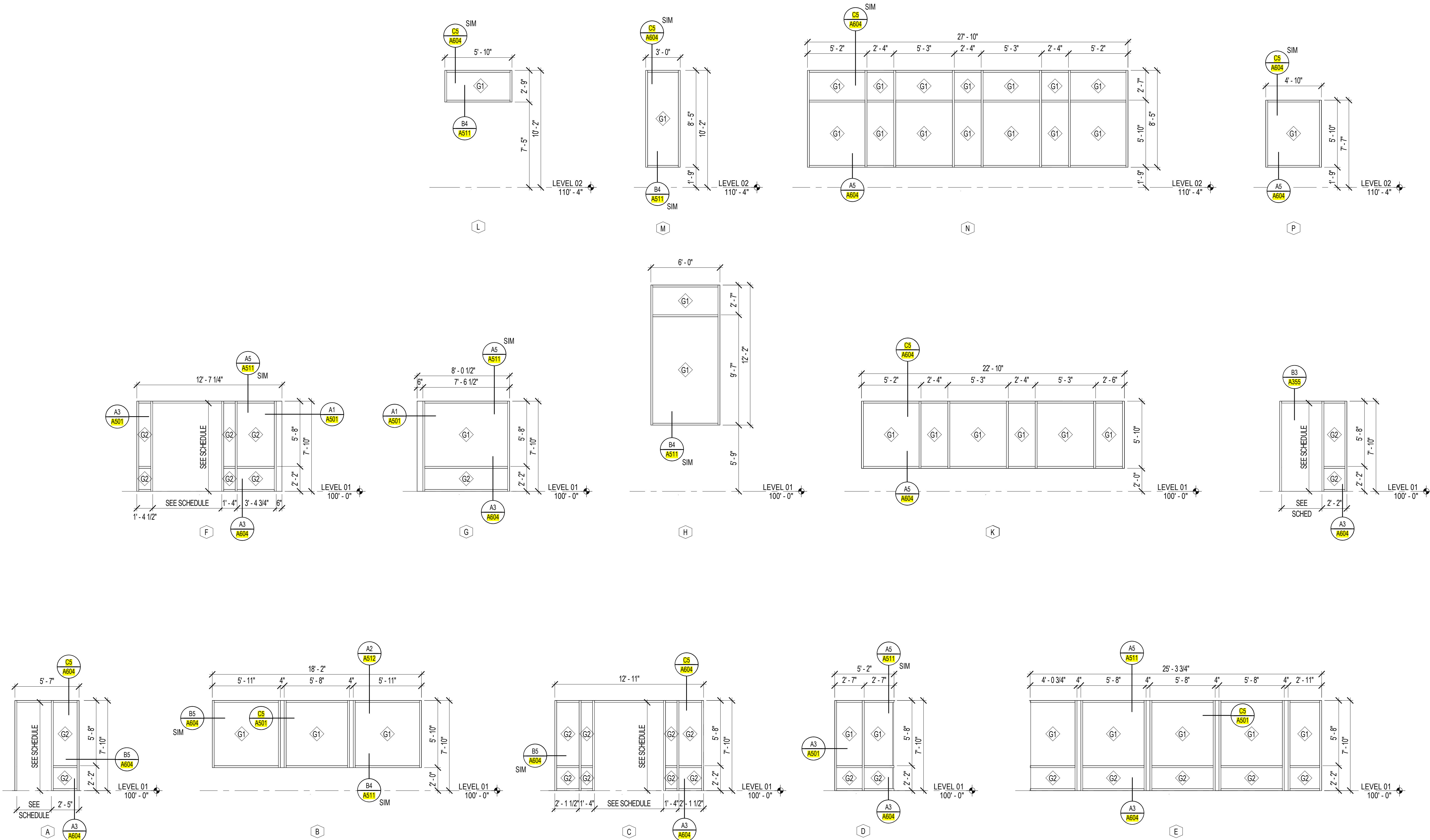
# Date Revision

CONSTRUCTION  
DOCUMENTS

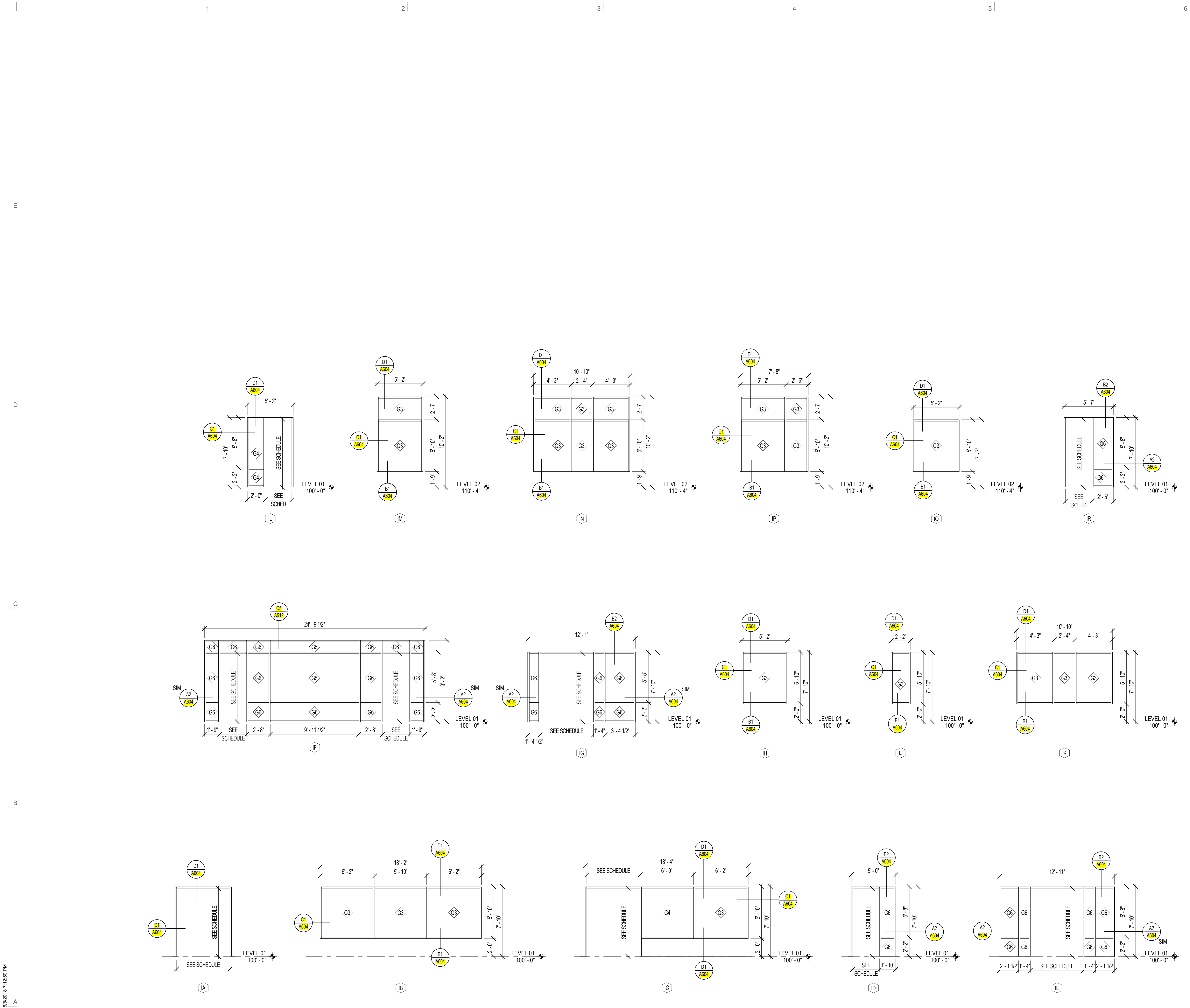
NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

EXTERIOR  
STOREFRONT  
TYPES

A602







**GENERAL NOTE -  
DOOR & WINDOW**

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

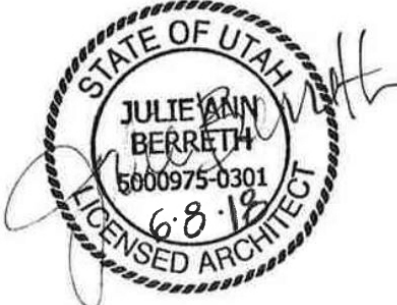
GLAZING SCHEDULE	
G1	1" INSULATED, CLEAR
G2	1" INSULATED, TEMPERED, CLEAR
G3	1" INSULATED, ONE-WAY MIRROR GLASS
G4	1" INSULATED, TEMPERED, ONE-WAY MIRROR GLASS
G5	1/4" CLEAR
G6	1/4" TEMPERED, CLEAR
-	



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**CONSTRUCTION  
DOCUMENTS**

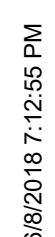
NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

**INTERIOR  
STOREFRONT  
TYPES**

**A603**



# A604



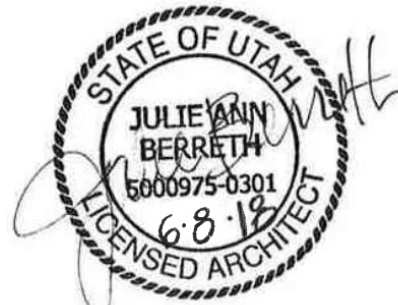




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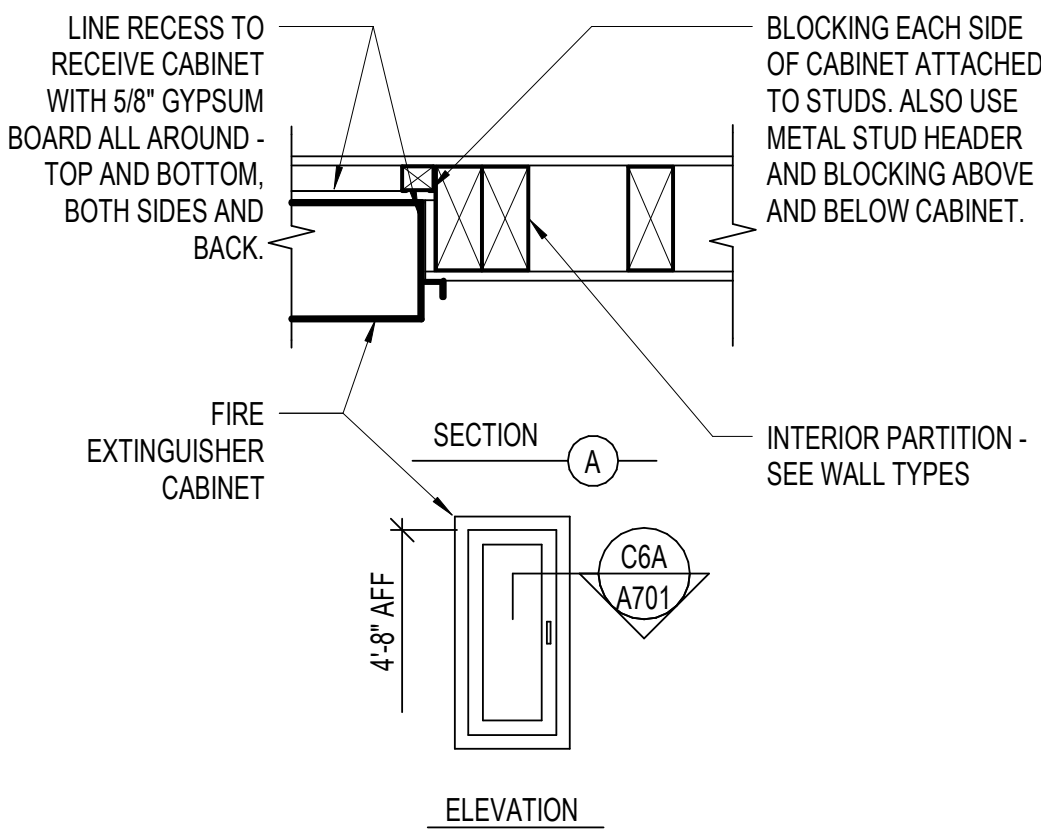
# Date Revision

CONSTRUCTION  
DOCUMENTS

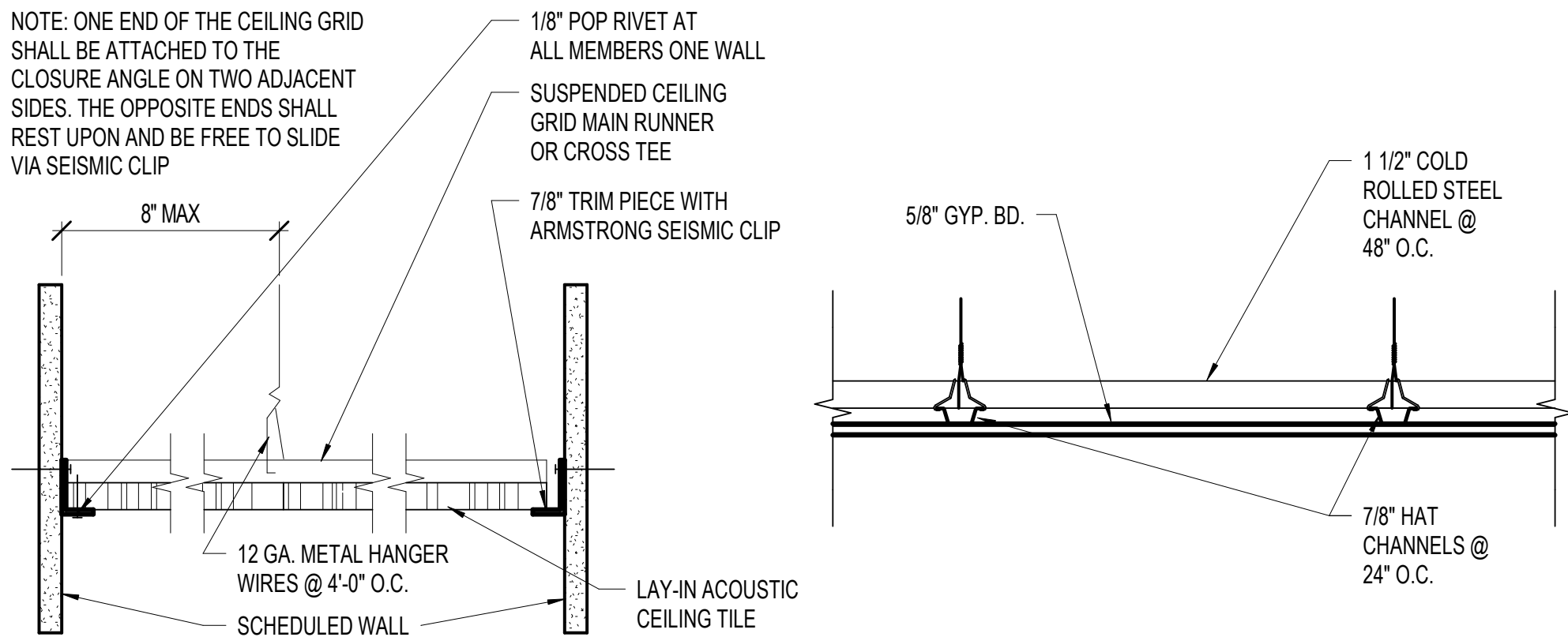
NEXUS PROJ. #: 17179  
CHECKED BY: KH  
DRAWN BY: JPA  
DATE: 06.08.18

TYPICAL  
DETAILS

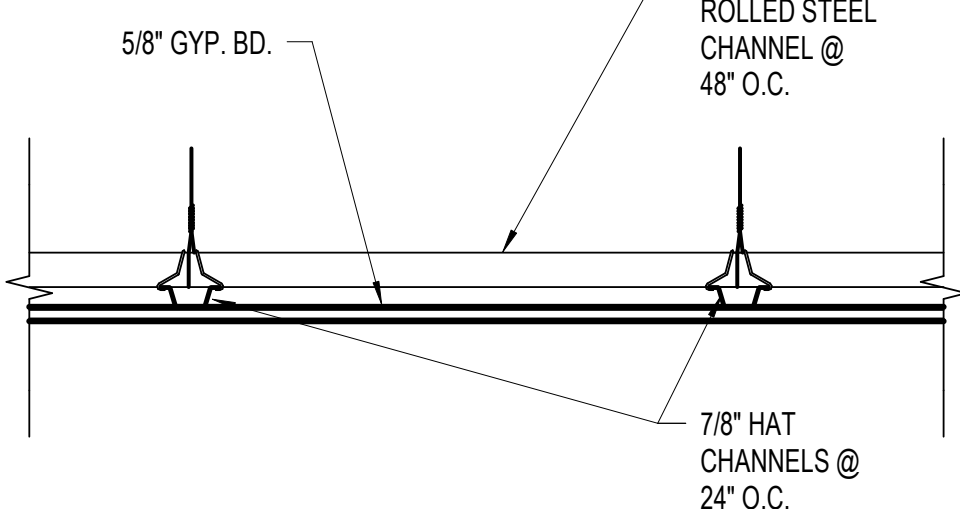
A701



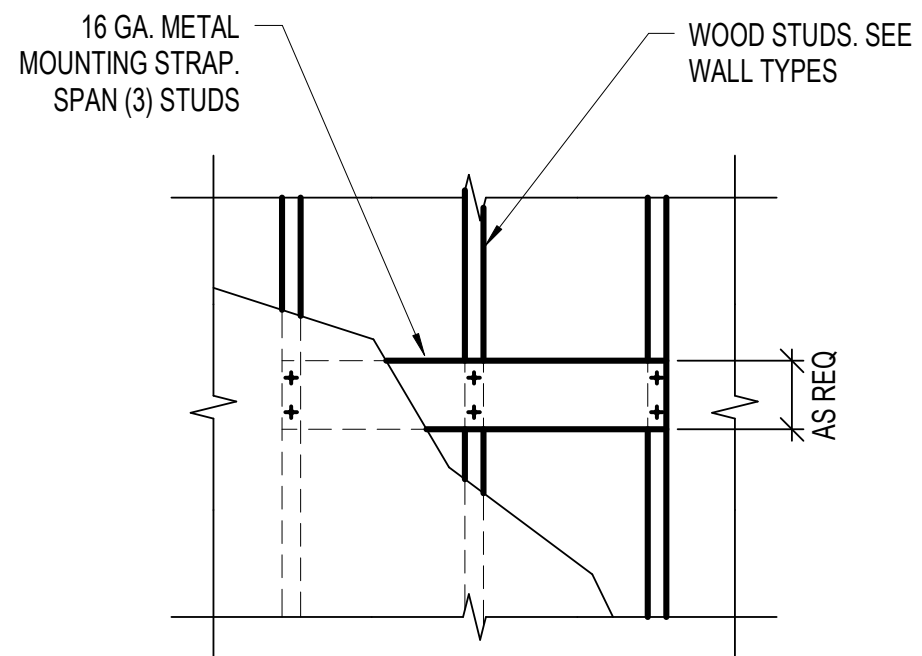
C6 FIRE EXTINGUISHER CABINET DETAIL  
A701 3" = 1'-0"



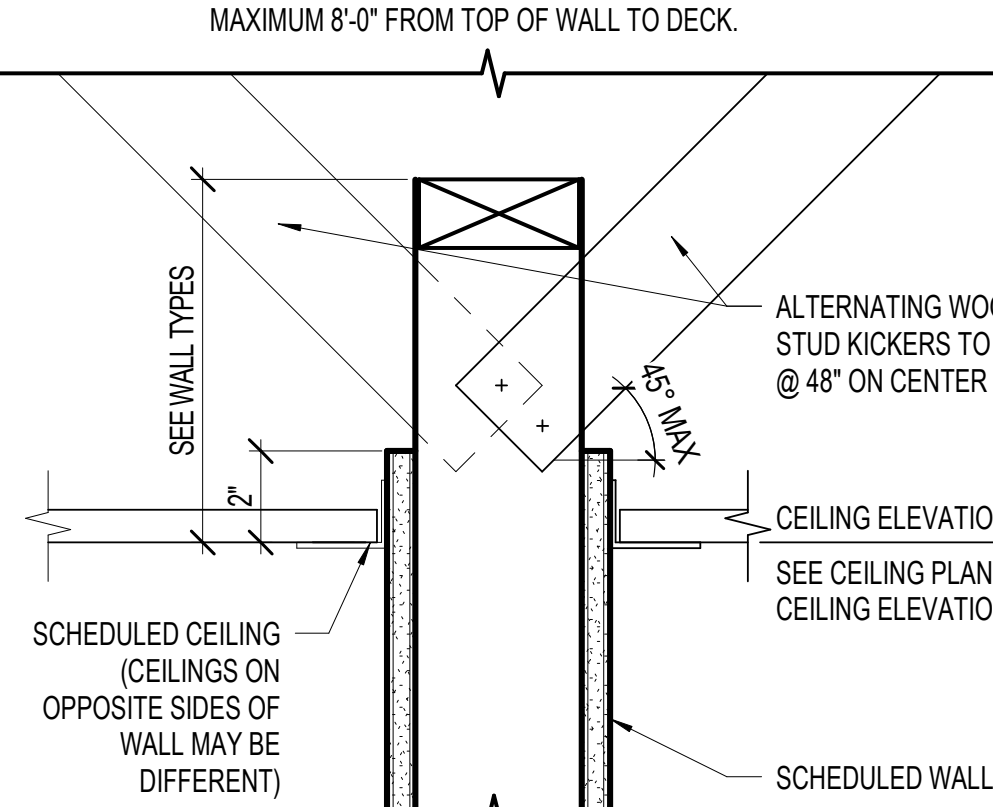
B2 LAY-IN CEILING TILE EDGE  
A701 3" = 1'-0"



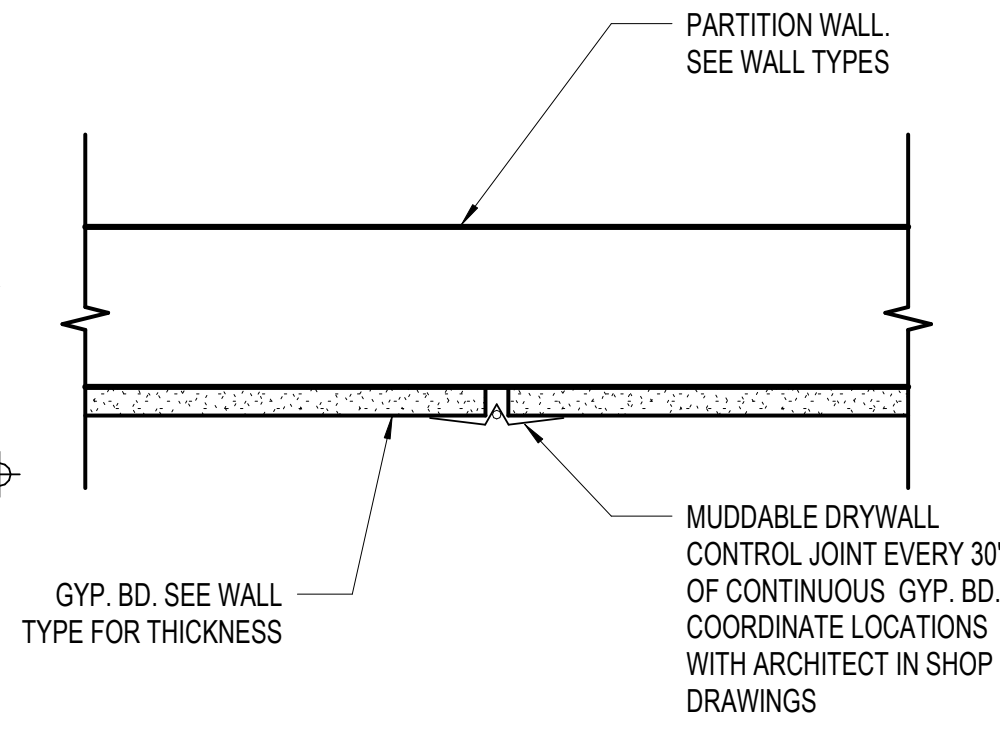
B3 SUSPENDED CEILING DETAIL  
A701 3" = 1'-0"



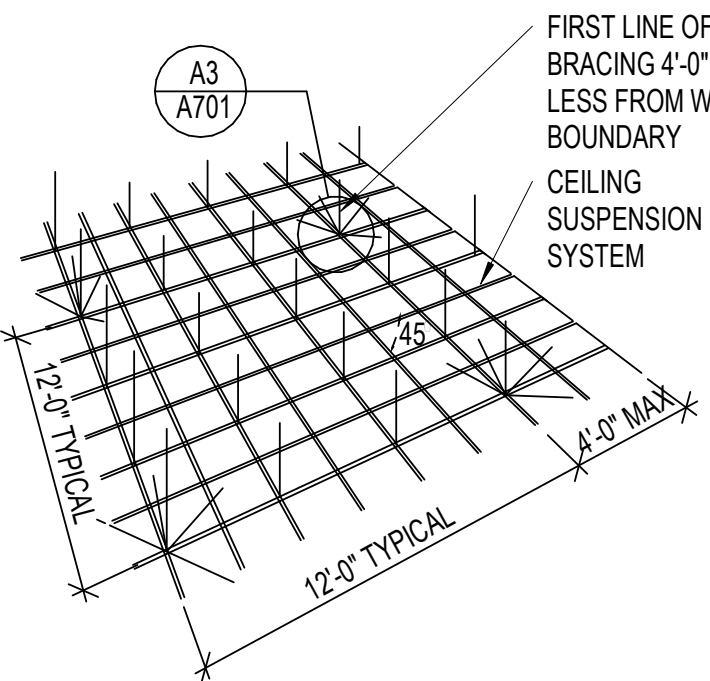
B4 MOUNTING PLATE DETAIL  
A701 3" = 1'-0"



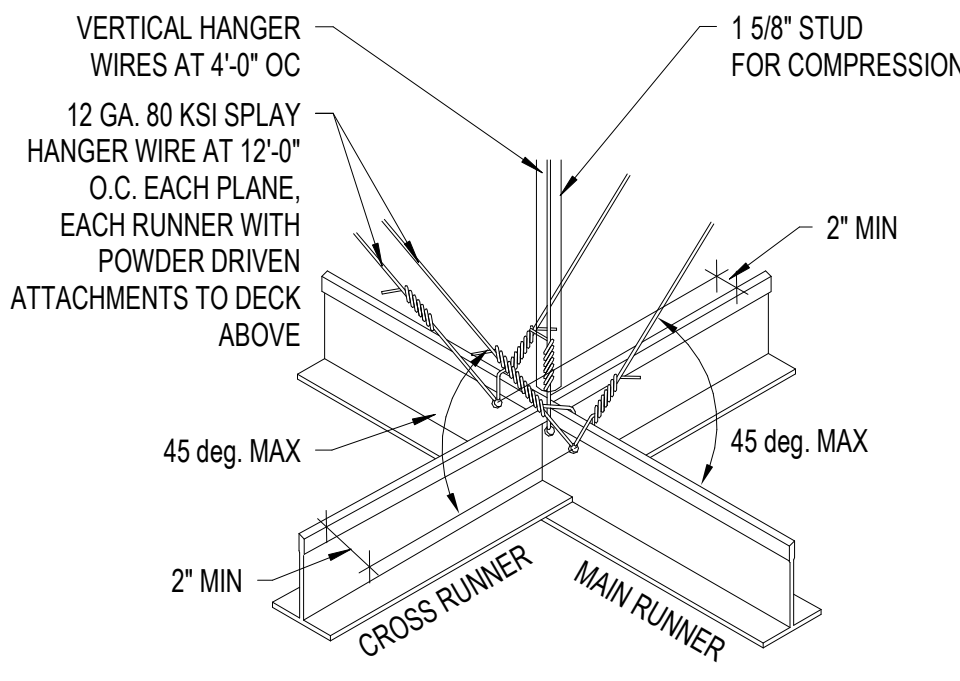
B5 WALL BRACING DETAIL  
A701 3" = 1'-0"



B6 DRYWALL CONTROL JOINT DETAIL  
A701 3" = 1'-0"



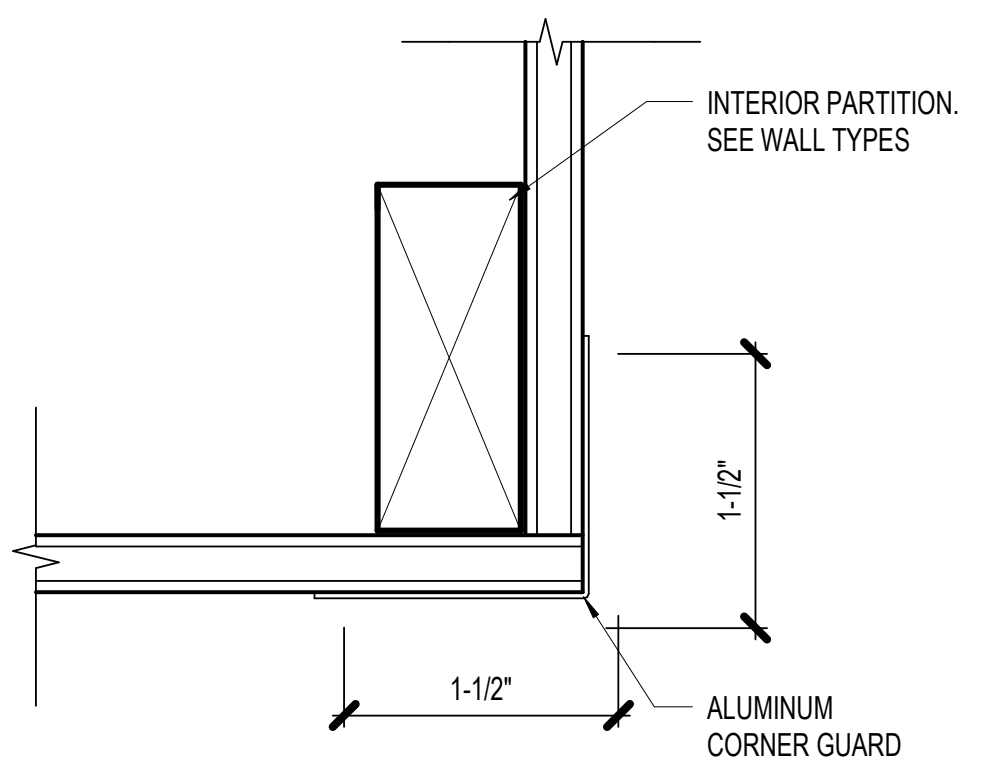
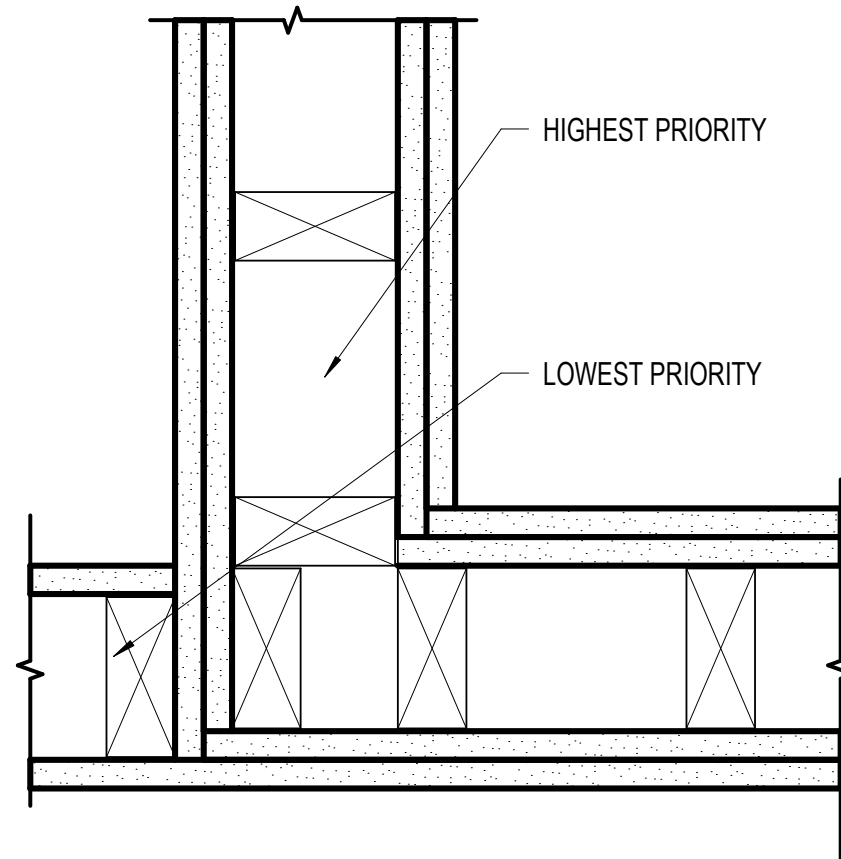
A2 TYPICAL SEISMIC BRACING DETAIL  
A701 3" = 1'-0"



A3 TYPICAL SEISMIC BRACING DETAIL  
A701 3" = 1'-0"

PARTITION PRIORITY LEGEND	
TWO HOUR FIRE AND SMOKE WALL	PRIORITY 1 HIGHEST
TWO HOUR FIRE WALL	PRIORITY 2
TWO HOUR SHAFT WALL	PRIORITY 3
ONE HOUR FIRE AND SMOKE WALL	PRIORITY 4
ONE HOUR FIRE WALL	PRIORITY 5
SMOKE TIGHT WALL	PRIORITY 6
NON-RATED WALL	PRIORITY 6

A4 PARTITION PRIORITY LEGEND  
A701 3" = 1'-0"



A6 CORNER GUARD DETAIL  
A701 3" = 1'-0"



EQUIPMENT AND ACCESSORY SCHEDULE											
NUMBER	ITEM	BASIS OF DESIGN	NOTES	FLOOR	WALL	CEILING	COUNTER	PORTABLE	FURNISH	INSTALL	
ACCESSORIES											
CS-01	BABY CHANGING STATION	KOALA KARE; MATCH EXISTING CAMPUS STANDARD			X				C	C	
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	
FS-02	FOLD DOWN STEP	STEP 'N WASH; SNW-SS 975B		X					C	C	
GB-01	GRAB BAR, 24"	ASI: 3401-24			X				C	C	
GB-02	GRAB BAR, 36"	ASI: 3401-36			X				C	C	
GB-03	GRAB BAR, 42"	ASI: 3401-42			X				C	C	
GB-04	GRAB BAR, VERTICAL, 18"	ASI: 3401-18			X				C	C	
MR-01	MIRROR, FRAMED, 24" X 36"	ASI: 0600-T2436			X				C	C	
PT-01	DISPENSER, PAPER TOWEL	KIMBERLY CLARK; TO BE DETERMINED			X				V	V	
SN-01	SANITARY NAPKIN DISPOSAL	TO BE DETERMINED			X				V	V	
SP-01	DISPENSER, SOAP	BRADY; TO BE DETERMINED			X				V	V	
TC-01	DISPENSER, TOILET SEAT COVER	TO BE DETERMINED			X				V	V	
TP-01	TOILET PAPER ROLL DISPENSER	KIMBERLY CLARK; TO BE DETERMINED			X				V	V	
EQUIPMENT											
CF-01	COFFEE MAKER	TO BE DETERMINED					X		O	O	
IC-01	ICE MACHINE	MANITOWOC; NEO UDF-0240A		X					O	O	
LK-01	LOCKER	"Z" TIER, 12" X 12"		X					C	C	
MS-01	MECHOSHADE, DOUBLE (WITH BLACKOUT)	MECHOSYSTEMS; MECHO/5 DOUBLE SHADE			X				C	C	
MW-01	MICROWAVE	TO BE DETERMINED					X		O	O	
MW-02	MICROWAVE, TURBOCHEF	TURBOCHEF; i5					X		O	O	
RF-01	REFRIGERATOR, UNDERCOUNTER	TO BE DETERMINED		X					O	O	
RF-02	REFRIGERATOR / FREEZER	TO BE DETERMINED		X					O	O	
ST-01	STAGE, MOVEABLE	TO BE DETERMINED		X				X	O	O	
WC-01	WARMING CABINET	AVANTCO, HP11836		X					O	O	
TECHNOLOGY											
CM-01	COMPUTER	TO BE DETERMINED					X		O	O	
PJ-01	PROJECTOR, SHORT THROW	REFER TO AV SPECS				X			C	C	
TV-01	TELEVISION, 55" (WITH MOUNTING BRACKET)	REFER TO AV SPECS			X				C	C	
TV-02	TELEVISION, 32" (WITH MOUNTING BRACKET)	REFER TO AV SPECS			X				C	C	

ROOM FINISH SCHEDULE											
ROOM	NAME	FLOOR	BASE	WALLS				CEILING	NOTES		
				N	E	S	W				
100	EXISTING ARENA	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
101	VESTIBULE	CPT 2	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
102	LOBBY	CN 2	BS 2	PT 1	PT 1	PT 1	PT 1	WD 1			
102A	CLOSET	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 4			
103	HK	TL 2	TL 2	PT 2	PT 2 / TL 2	PT 2 / TL 2	PT 2	CL 2	REFER TO ELEVATIONS		
104	STAIR	RB 2	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
106	CHECK-IN	CN 2	BS 2	N/A	N/A	PT 1	WD 1	WD 1			
107	VOLUNTEER	CN 2	BS 2	PT 1 / WD 4	PT 1	PT 1	PT 1	CL 4	REFER TO ELEVATIONS		
108	PRIVATE	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 1	NO TRIM AT CEILING		
109	ELECTRICAL	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
110	MECHANICAL	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
111	VIEWING / LOUNGE	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	WD 3			
112	PHYSICAL THERAPY	RB 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 1	NO TRIM AT CEILING		
113	MECHANICAL	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
115	CORRIDOR	CN 2	BS 2	PT 1	PT 1 / FL 1	PT 1	PT 1 / FL 1	FL 2	REFER TO ELEV AND RCP		
116	MEN'S RR	TL 1	BS 3	PT 2	PT 2 / TL 2	TL 3/PT 2	PT 2	CL 5			
116A	CHANGING	TL 1	BS 3	PT 2	PT 2	TL 3/PT 2	PT 2	CL 5			
117	WOMEN'S RR	TL 1	BS 3	TL 3/PT 2	PT 2	PT 2	PT 2	CL 5			
117A	CHANGING	TL 1	BS 3	TL 3/PT 2	PT 2	PT 2	PT 2	CL 5			
118	MEETING ROOM	CPT 1	BS 2	WD 2	PT 1	VS 1 / PT 1	PT 1	WD 1 / CL 1	REFER TO RCP		
119	WARMING KITCHEN	CN 2	BS 1	PT 2	PT 2	PT 2	PT 2	CL 5			
120	LOBBY	CN 2	BS 2	PT 1	PT 1	PT 1	PT 1	WD 1			
121	RESTROOM	TL 1	BS 3	TL 3	PT 2	PT 2	PT 2	CL 4			
122	RESTROOM	TL 1	BS 3	TL 3	PT 2	PT 2	PT 2	CL 4			
123	VESTIBULE	CPT 2	BS 2	PT 1	PT 1	PT 1	PT 1	CL 5			
124	MULTI-PURPOSE	CPT 1	BS 2	PT 1	PT 1	PT 3	PT 1 / PT 3	WD 1 / CL 1	REFER TO ELEV AND RCP		
125	TABLE STORAGE	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
126	VESTIBULE	CPT 2	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
127	ELECTRICAL	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
128	FIRE RISER	CN 1	BS 1	PT 1	PT 1	PT 1	PT 1	CL 2			
201	LOBBY	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4 / FL 3	REFER TO RCP		
202	BREAK	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
203	STAFF LOCKERS	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
204	RESTROOM	TL 1	BS 3	PT 2	TL 3	PT 2	PT 2	CL 5			
205	RESTROOM	TL 1	BS 3	PT 2	TL 3	PT 2	PT 2	CL 5			
206	OPEN OFFICE	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 1	NO TRIM AT CEILING		
206A	VESTIBULE	CPT 2	BS 2	PT 1	PT 1	PT 1	PT 1	CL 4			
207	CONFERENCE ROOM	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 1	NO TRIM AT CEILING		
208	CONFERENCE ROOM	CPT 1	BS 2	PT 1	PT 1	PT 1	PT 1	CL 1	NO TRIM AT CEILING		
209	MECHANICAL	EXP	-	-	-	-	-	CL 2			

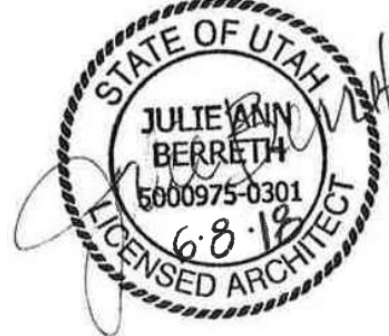
FINISH LEGEND		
CODE	DESCRIPTION	REMARKS
BASE FINISHES		
BS 1	6" RUBBER BASE, JOHNSONITE, TRADITIONAL TOELESS 6", COLOR: TBD	
BS 2	6" RUBBER BASE, JOHNSONITE MILLWORK, PROFILE: MANDALAY 6", COLOR: TBD	
BS 3	DALTILE, INDUSTRIAL PARK, 6" X 12" COVE BASE,COLOR: LIGHT GRAY, IP07	
CEILING FINISHES		
CL 1	2' x 2' ACOUSTICAL CEILING PANEL WITH 4" AXIOM TRIM AT PERIMETER EDGE U.N.O., ARMSTRONG AXIOM CLASSIC, COLOR: AXIOM CLASSIC IN WHITE	
CL 2	UNFINISHED SURFACE	
CL 3	EXPOSED PAINTED STRUCTURE, COLOR: PT 1	
CL 4	PAINTED GYPSUM BOARD, FLAT FINISH, USE PT 1 U.N.O.	
CL 5	PAINTED GYP BOARD, SEMI GLOSS FINISH, COLOR: PT 1	
FL 2	FELT ACOUSTIC CEILING PANEL, MANUFACTURER: KIREI, ECHOPANEL, 12 MM, COLOR: 295	REFER TO RCP FOR SIZE AND LAYOUT
FL 3	FELT ACOUSTIC BAFFLE, MANUFACTURER: KIREI, H BAFFLE, COLOR: 442	REFER TO RCP FOR SIZE AND LAYOUT
WD 1	EXPOSED GLU-LAM BEAMS AND PLYWOOD, PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION	
WD 3	EXPOSED STRUCTURE AND PLYWOOD, PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION	
WD 4	PLYWOOD VENEER, TRANSPARENT MATTE FINISH, PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION	
FLOOR FINISHES		
CPT 1	INTERFACE, PROGRESSION II, COLLECTION: GLOBAL CHANGE, STYLE: 142670AK00, COLOR: 105507 MORNING MIST, 25CM X 1M	
CPT 2	WALKOFF MAT, INTERFACE FLOOR, SUPER FLOR, COLOR: MOUSE GREY, 608009	
CN 1	CONCRETE WITH PENETRATING SEALANT	
CN 2	POLISHED SEALED CONCRETE WITH SLIP RESISTANT FINISH, COLOR: TBD (LIGHT COLOR)	
TL 1	DALTILE, INDUSTRIAL PARK, 12" X 24" WITH MATCHING, COVE BASE,COLOR: CHARCOAL BLACK, IP09	
TL 2	DALTILE, KEYSTONES, 1" X 1" PORCELAIN MOSAIC TILES, W/ MIN 4" BASE AT WALLS, COLOR: SUEDE GRAY D182	JANITORIAL
RB 1	MONDO, NATURA, COLOR: 80% LAGUNA BLUE, N 13, 20% TAHOE BLUE, N 10	LAYOUT TO BE PROVIDED BY ARCHITECT
RB 2	ROPPE, RAISED DESIGN RUBBER TREAD, #40 ABRASIVE STRIP DESIGN, COLOR: TBD	
EXP	EXPOSED PLYWOOD SHEATHING	LEVEL 02 MECHANICAL FLOOR
MILLWORK FINISHES		
PL 1	NEVAMAR, ARMORED PROTECTION, COLOR: CAFE SIENNA S03300T	
PL 2	WILSONART, STANDARD LAMINATE, COLOR: STEEL MESH, 4879-38 FINE VELVET FINISH	
OZ 1	CAESARSTONE, COLOR: RAW CONCRETE, 4004	
WV 1	FIR PLYWOOD VENEER, GRADE A, TRANSPARENT MATTE FINISH, PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION	
WALL FINISHES		
PT 1	DUNN EDWARDS, COLOR: DOLPHIN TALES, DET600 SHEEN: EGGSHELL	
PT 2	DUNN EDWARDS, COLOR: DOLPHIN TALES, DET600 SHEEN: SEMI-GLOSS	
PT 3	BENJAMIN MOORE, NOTABLE DRY ERASE PAINT, TWO PART SYSTEM, COLOR: WHITE	WHITEBOARD. REFER TO ELEVATIONS
TL 3	DALTILE, INDUSTRIAL PARK, 12" X 24" WITH MATCHING, COVE BASE,COLOR: LIGHT GRAY, IP07	
VS 1	AHDERED VENEER STONE SYSTEM TO MATCH EXTERIOR WALL	
FL 1	FELT ACOUSTIC WALL PANEL, MANUFACTURER: KIREI, ECHOPANEL, 12 MM, COLOR: 295	REFER TO ELEVATIONS FOR SIZE AND LAYOUT
W 1	UNFINISHED SURFACE	
WD 1	EXPOSED GLU-LAM BEAMS AND PLYWOOD TO MATCH CEILING, TRANSPARENT MATTE FINISH, PROVIDE HIGHER GRADE PLYWOOD AT THIS LOCATION	
WD 2	3/4" SHIPLAP WOOD VENEER TO MATCH EXTERIOR WALL	



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DRAWN BY: JPA  
DATE: 06.08.18

FINISH AND EQUIPMENT SCHEDULES

AI601



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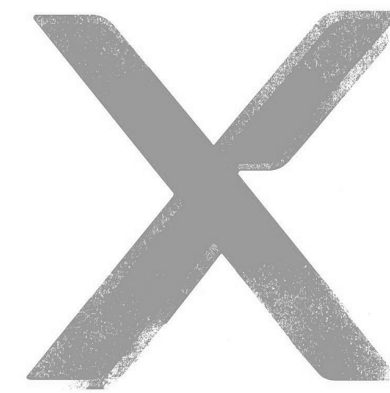
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MECHANICAL LEGEND		
MECHANICAL LEGEND...		MECHANICAL LEGEND...
Key Name	IMAGE	Key Name
BURIED OR UNDERFLOOR DUCT		CHILLED WATER SUPPLY
DUCT SIZE (IN FIRST FIGURE IS SIDE SHOWN)		CONDENSER WATER RETURN
FLEXIBLE DUCT (HELICAL)		CONDENSER WATER RETURN
FLEXIBLE DUCT CONNECTION		HEATING WATER RETURN
SPIN-IN W/ MVD		HEATING WATER SUPPLY
AIR FLOW STATION		RADIANT FLOOR RETURN
COMBINATION FIRE/SMOKE DAMPER		RADIANT FLOOR SUPPLY
FIRE DAMPER SMOKE DAMPER		REFRIGERANT LIQUID
GRAVITY BACKDRAFT DAMPER		REFRIGERANT SUCTION
MANUAL VOLUME DAMPER		SNOWMELT RETURN
MOTORIZED DAMPER		SNOWMELT SUPPLY
SMOKE DAMPER		STEAM
THERMOSTAT OR TEMP SENSOR W/ EQUIPMENT TAG		STEAM CONDENSATE RETURN
RADIAL SUPPLY DIFFUSERS		GROUND LOOP RETURN
RETURN GRILLE		GROUND LOOP SUPPLY
SUPPLY DIFFUSER		HOT GAS
SUPPLY SLOT DIFFUSER		HOT GAS BYPASS
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
YARD HYDRANT		DOMESTIC COLD WATER
FLOOR DRAIN		DOMESTIC HOT WATER
FLOOR OR GRADE CLEANOUT		DOMESTIC HOT WATER RECIRC.
FLOOR SINK		FIRE SERVICE
GRADE CLEANOUT W/ CONCRETE PAD		GREASE WASTE ABOVE GRADE
HOSE BIBB OR SILLCOCK		GREASE WASTE BELOW GRADE
MANHOLE		NATURAL GAS
REDUCED PRESSURE BACKFLOW PREVENTOR		OVERFLOW DRAIN
VENT THROUGH THE ROOF		ROOF DRAIN
WALL CLEANOUT		SANITARY (PLBG) VENT
EXPANSION JOINT		SANITARY WASTE ABOVE GRADE
FLEXIBLE PIPE CONNECTION		SANITARY WASTE BELOW GRADE
HEAT TRACING		COMPRESSED AIR
CHILLED WATER RETURN		

ABBREVIATIONS	
Key Name	Comments
AD	ACCESS DOOR
AF	AIRFOIL
AFV	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BI	BACKWARD INCLINE
BOO	BOTTOM OF DUCT
BOF	BOTTOM OF PIPE
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CBV	CALIBRATED BALANCE VALVE
CFM	CUBIC FEET PER MINUTE
COTG	CLEAN OUT TO GRADE
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
DIA	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
FCD	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FD	FLAT DRAIN
FFM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLON
GD	GRADE 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
LA	LAVATORY OR LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
M&H	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
OFI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFI	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
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
SA	SUPPLY AIR OR SHOCK ARRESTOR
SEN	SENSIBLE
SF	SQUARE FEET
SMI	SIMILAR
SL	SEA LEVEL
SP	STATIC PRESSURE
SS	SERVICE SINK OR STAINLESS STEEL
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
U	URNAL
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH THE ROOF
W	WASTE
WI	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WFO	WATER PRESSURE DROP
WT	WEIGHT
Ø	ROUND OR DIAMETER

NOTE: NOT ALL ABBEVIATIONS WILL BE USED IN THIS DOCUMENT SET.

DRAWING INDEX	
#	SHEET NAME
M001	MECHANICAL LEGEND, SYMBOLS & ABBREV.
M001	LEVEL 1 MECHANICAL ZONE PLAN
M002	LEVEL 2 MECHANICAL ZONE PLAN
FP100	FIRE PROTECTION PLANS
M001	LEVEL 1 OVERALL MECHANICAL FLOOR PLAN
M001A	LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'A'
M001B	LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'B'
M001C	LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'C'
M002	LEVEL 2 OVERALL MECHANICAL FLOOR PLAN
M002A	LEVEL 2 MECHANICAL FLOOR PLAN - AREA 'A'
M002B	LEVEL 2 MECHANICAL FLOOR PLAN - AREA 'B'
M002C	LEVEL 2 MECHANICAL FLOOR PLAN - AREA 'C'
M001	MECHANICAL VENT ISO
M001	ENLARGED MECHANICAL PLANS
M001	MECHANICAL DETAILS
M002	MECHANICAL DETAILS
M001	MECHANICAL SCHEDULES
M002	MECHANICAL SCHEDULES
M001	MECHANICAL SCHEMATICS
P101	LEVEL 1 OVERALL PLUMBING FLOOR PLAN
P101A	LEVEL 1 PLUMBING FLOOR PLAN - AREA 'A'
P101B	LEVEL 1 PLUMBING FLOOR PLAN - AREA 'B'
P101C	LEVEL 1 PLUMBING FLOOR PLAN - AREA 'C'
P102	LEVEL 2 OVERALL PLUMBING FLOOR PLAN
P102A	LEVEL 2 PLUMBING FLOOR PLAN - AREA 'A'
P102B	LEVEL 2 PLUMBING FLOOR PLAN - AREA 'B'
P102C	LEVEL 2 PLUMBING FLOOR PLAN - AREA 'C'
P101	WASTE & VENT SCHEMATIC AND GAS SCHEMATIC
P101	ENLARGED RESTROOM PLANS
P101	PLUMBING DETAILS
P101	PLUMBING SCHEDULES



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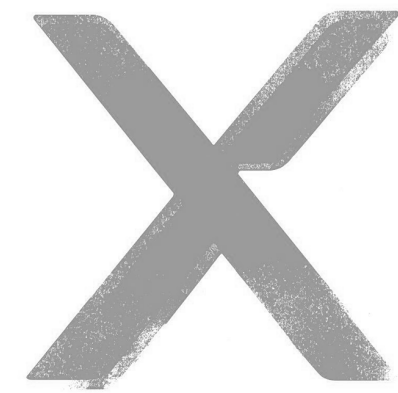
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MECHANICAL  
LEGEND,  
SYMBOLS &  
ABBREV.

M001

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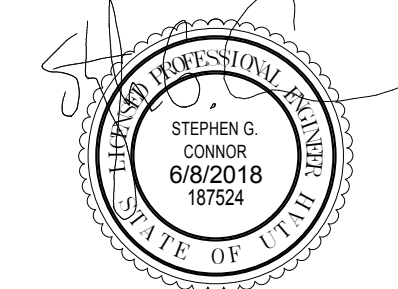




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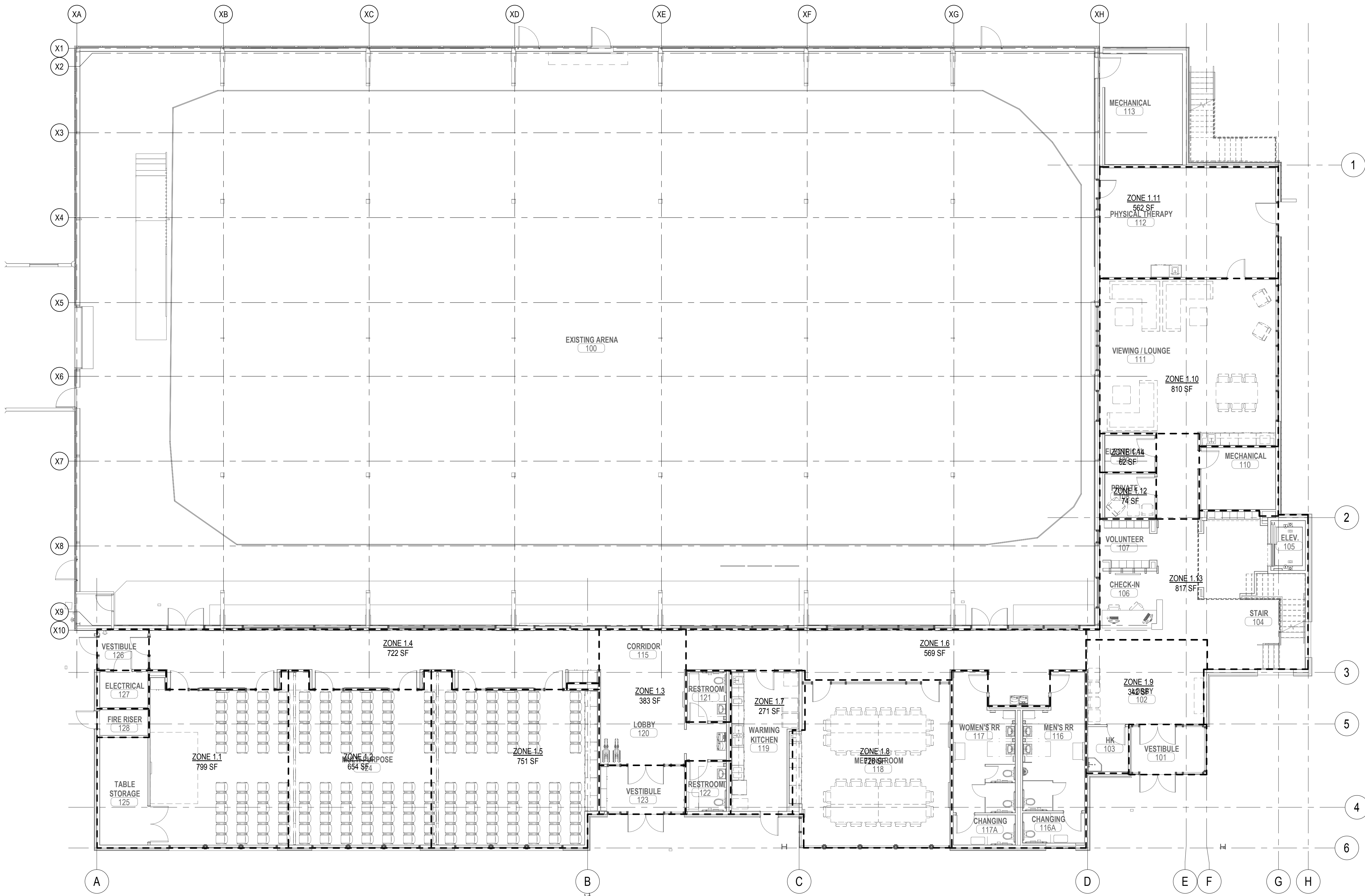
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**LEVEL 1  
MECHANICAL  
ZONE PLAN**

**M011**



**1 LEVEL 1 MECHANICAL ZONE PLAN**  
SCALE: 1/8" = 1'-0"



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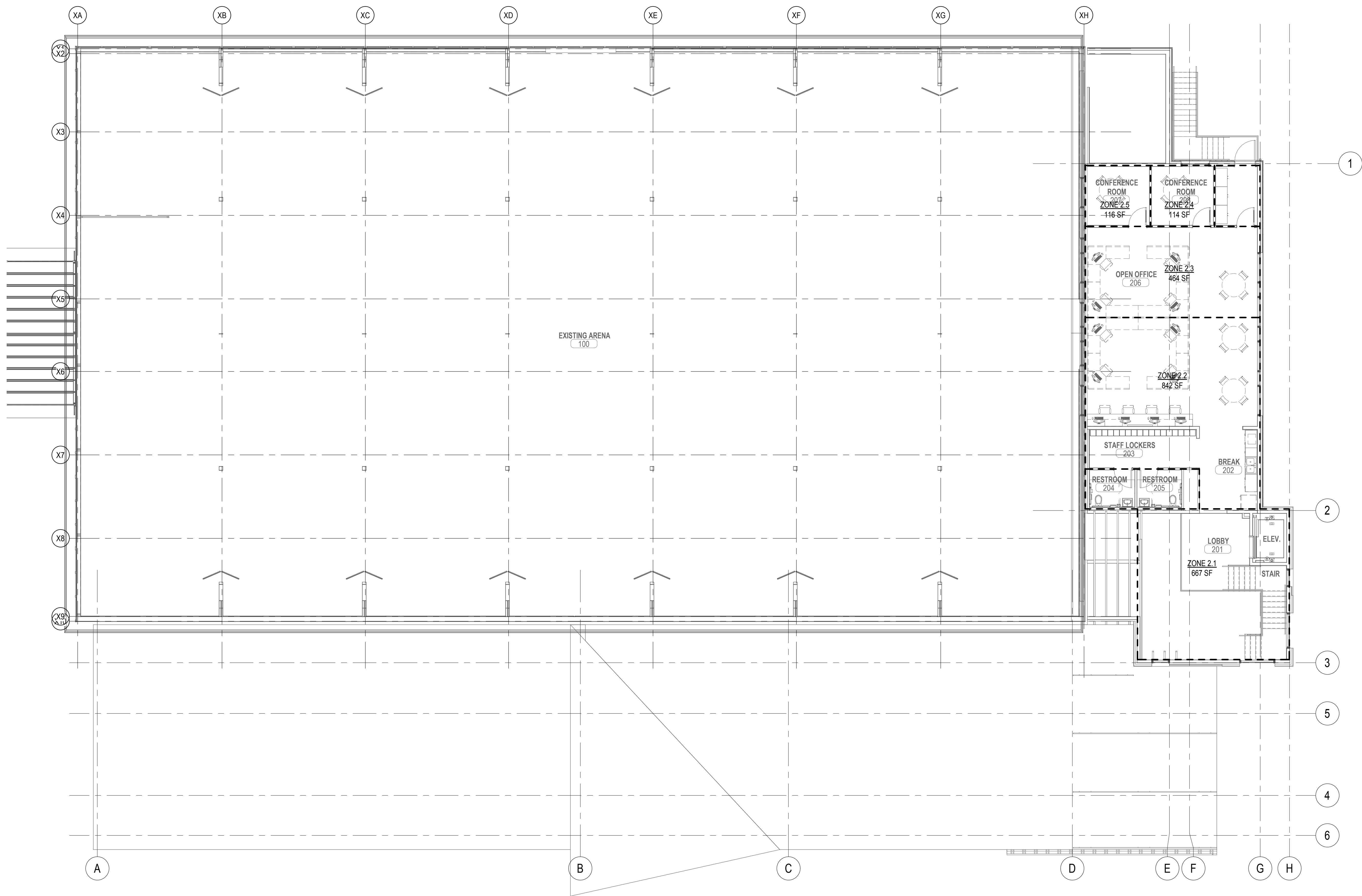
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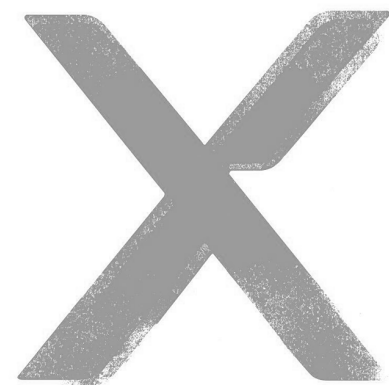
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1 LEVEL 2 MECHANICAL ZONE PLAN  
SCALE: 1/8" = 1'-0"

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**LEVEL 2  
MECHANICAL  
ZONE PLAN**

**M012**



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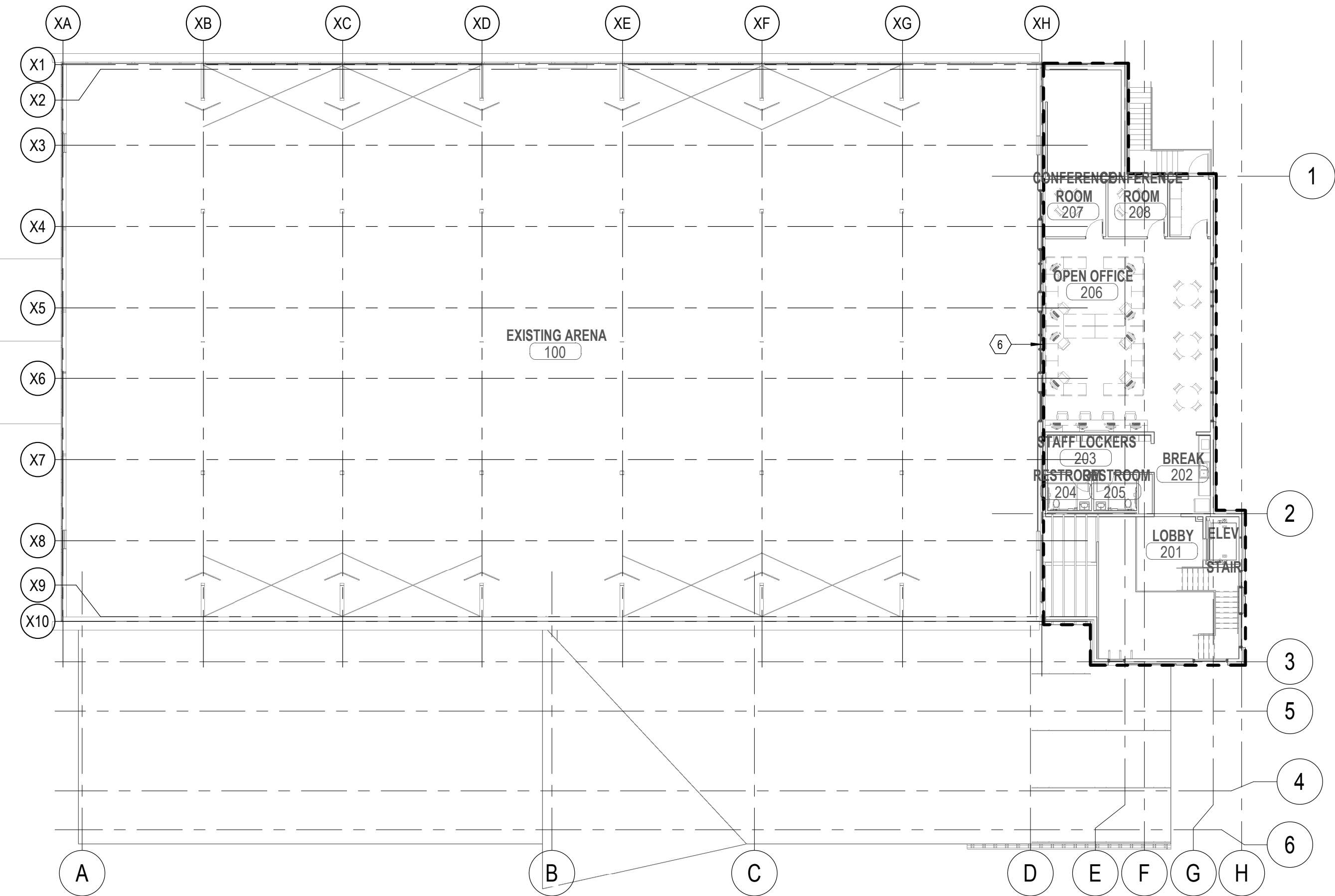
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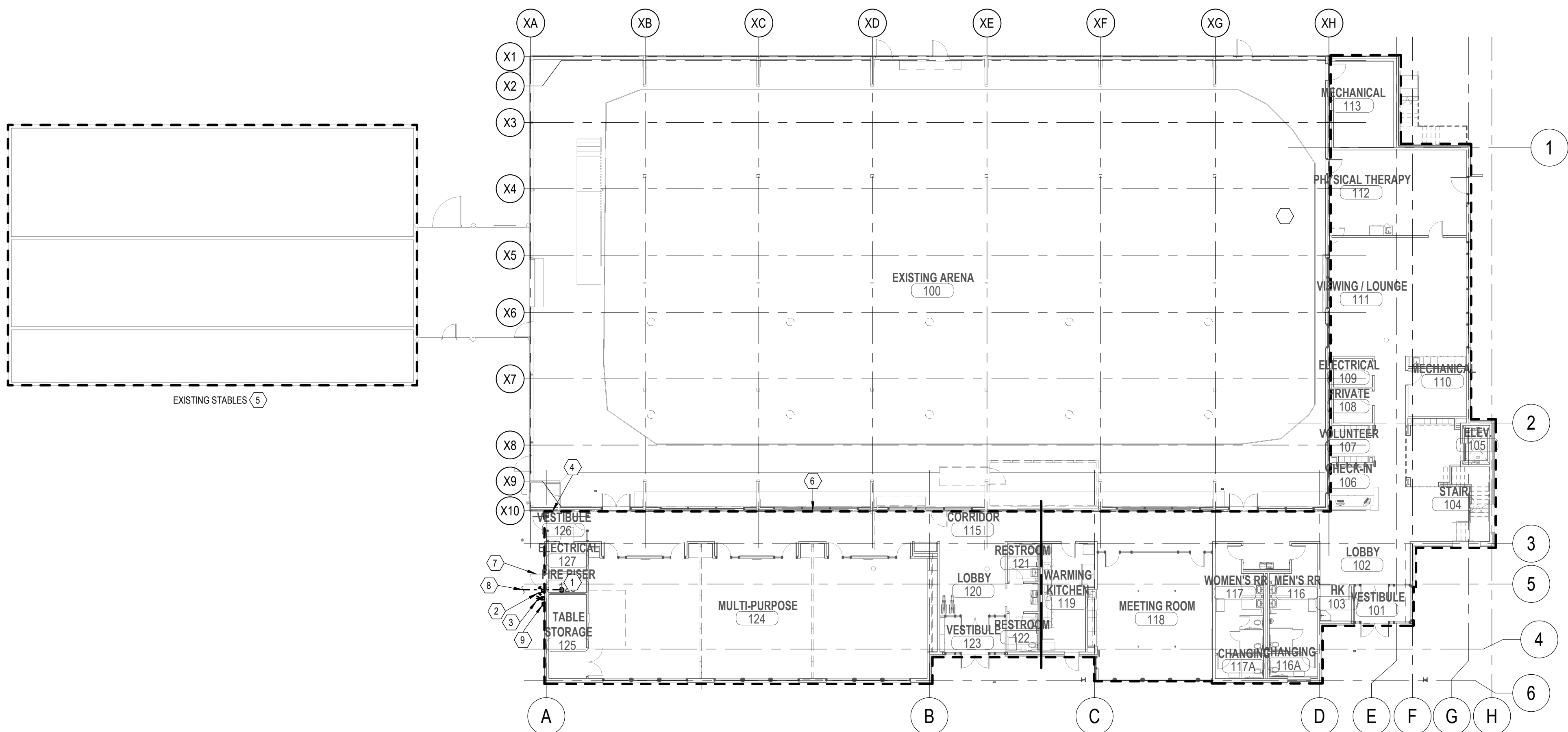
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2 LEVEL 2 FIRE PROTECTION PLAN

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

12 0 8 16 24



1 LEVEL 1 FIRE PROTECTION PLAN

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

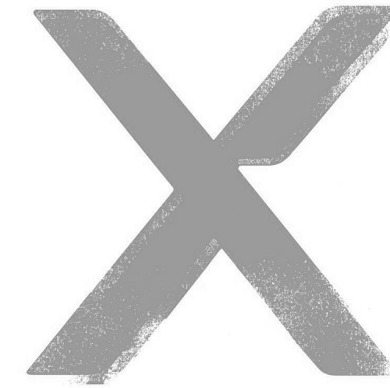
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## KEYED NOTES

- 1 FIRE RISER
- 2 WALL MOUNTED FIRE DEPARTMENT SIAMASE CONNECTION. RUN LINE INSIDE AND CONNECT TO FULL SIZE MAIN. FIELD VERIFY EXACT LOCATION WITH DESIGN SPECIFICATIONS AND FIRE PROTECTION CONTRACTOR.
- 3 FIRE ALARM AND STROBE
- 4 RELOCATE EXISTING FDC TO ACCOMMODATE NEW CONSTRUCTION.
- 5 EXTEND EXISTING FIRE SPRINKLER SYSTEM FROM THE ARENA TO ACCOMMODATE EXISTING STABLE. DURING THE DESIGN BUILD PROCESS, THE FIRE PROTECTION SUB-CONTRACTOR SHALL EVALUATE SYSTEM PRESSURE TO VERIFY THE EXISTING STABLE CAN BE SERVED FROM THE EXISTING RISER. IN THE EVENT THE PRESSURE IS INSUFFICIENT, A NEW FIRE RISER WILL BE REQUIRED TO SERVE THE EXISTING STABLES. EXISTING ARENA FIRE SYSTEM IS GLYCOL. EXTENDED SYSTEM SHALL BE GLYCOL.
- 6 PROVIDE FIRE SPRINKLER SYSTEM TO AREA INDICATED IN BOUNDARY LINE.
- 7 PROVIDE IDENTIFICATION SIGNS AT THE FIRE SPRINKLER RISER ROOM TO SAY FIRE SPRINKLER RISER ROOM AND CONTROL VALVES ACCESS.
- 8 FIRE LINE FEED. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 9 KNOX BOX.

## 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. PLAIN 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 CONTRACTORS PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
- J. 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.
- K. FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS, AND MATERIALS SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO SUBMITTING TO OTHER AUTHORITIES HAVING JURISDICTION.
- L. FIRE SPRINKLER CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS AND/OR APPROVALS FROM CITY, COUNTY, AND STATE.
- M. PRESSURE TEST AND CERTIFY SPRINKLER SYSTEM.
- N. 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.
- O. NEW FIRE PROTECTION WORK TO INCLUDE HEADS AND PIPING SYSTEM AS REQUIRED TO MEET NFPA REQUIREMENTS.
- P. NEW PIPING TO BE SCHEDULE 40 STEEL PIPE LISTED FOR FIRE PROTECTION.
- Q. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- R. SUBMIT FIRE PROTECTION DRAWINGS TO LANDLORD/SOWNERS INSURANCE REVIEW CONSULTANT.
- S. COORDINATE WITH AUI FOR SYSTEM DESIGN REQUIREMENTS.
- T. COORDINATE PIPE ROUTING WITH OTHER TRADES.
- U. 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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# Date Revision

## CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: BRC  
DRAWN BY: CEA  
DATE: 06.08.18

## FIRE PROTECTION PLANS

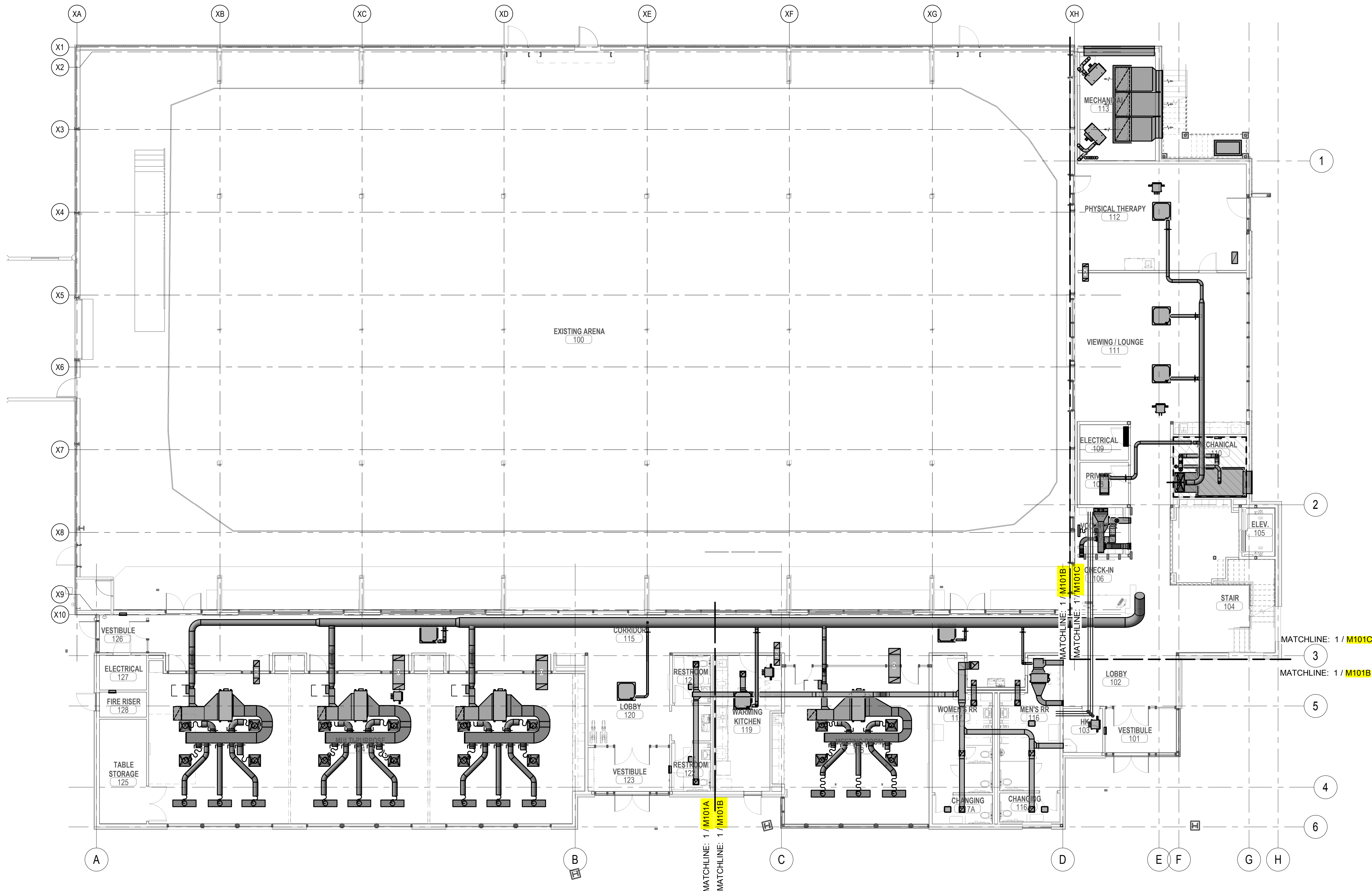
FP100

AGENCY APPROVAL



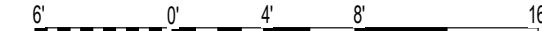
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6/1/2018 9:23:22 AM



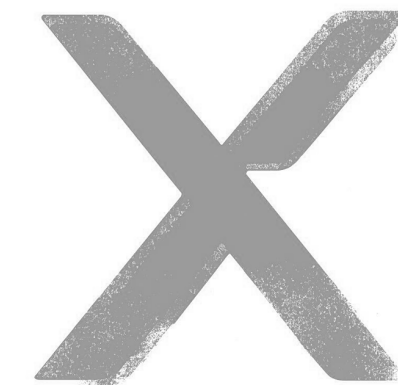
1 LEVEL 1 OVERALL MECHANICAL FLOOR PLAN

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



## GENERAL NOTES

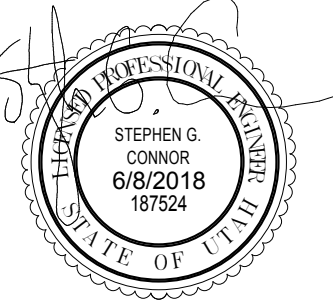
- COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
- NO FLEX DUCT ABOVE HARD CEILINGS.
- PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SMH502 FOR TRANSFERS A-G.



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## LEVEL 1 OVERALL MECHANICAL FLOOR PLAN

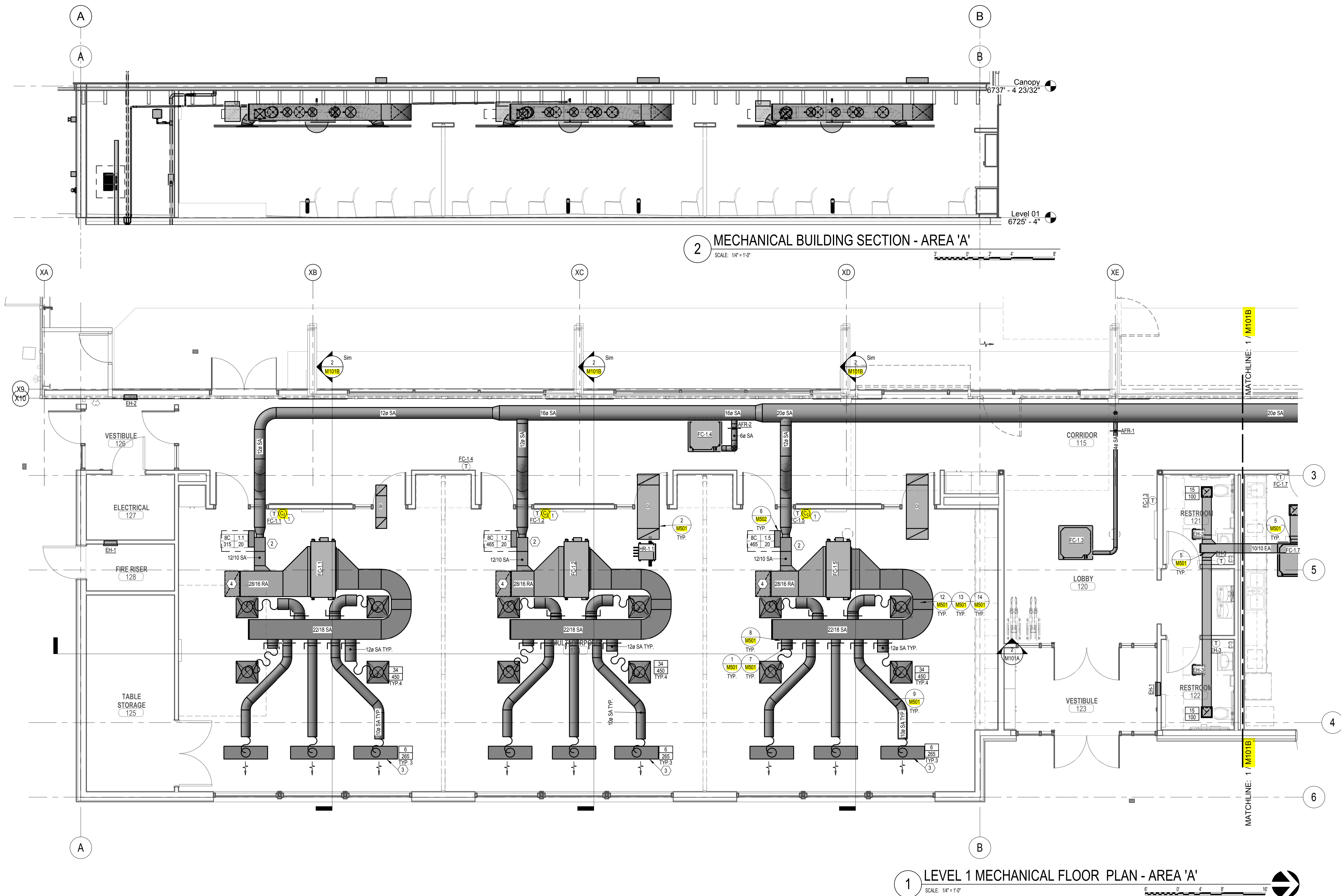
# M101

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6/1/2018 9:23:31 AM

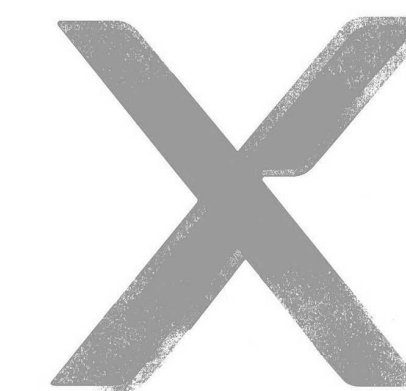


#### KEYED NOTES

- 1 WALL MOUNT CO2 SENSOR. TIE TO OUTSIDE AIR DAMPER IN SPACE FOR DEMAND CONTROL VENTILATION CONTROL.
- 2 COOLING ONLY VAV BOX TO MODULATE VENTILATION AIR SUPPLY.
- 3 PLACE LINER DIFFUSERS ON SIDE WITH AIRFLOW DIRECT DOWN TOWARDS THE WINDOWS (TYPICAL).
- 4 PLACE OPENING AT TOP OF DUCT.

#### GENERAL NOTES

- A COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- B COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- C INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
- D NO FLEX DUCT ABOVE HARD CEILING.
- E PLENUM TO PLENUM AIR TRANSFER DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SM-HS02 FOR TRANSFERS A-G.



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#### LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'A'

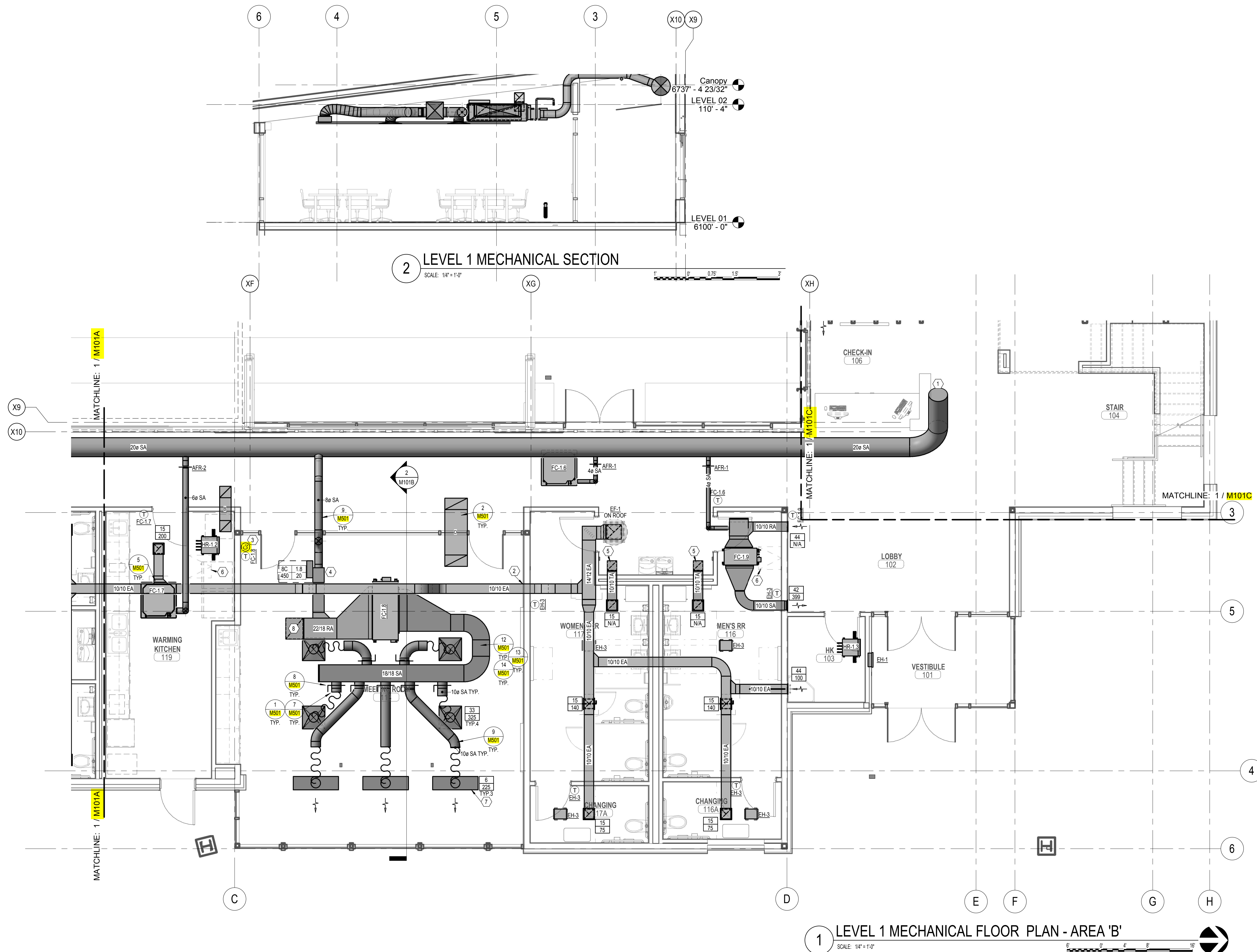
## M101A

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6/1/2018 9:23:37 AM



- KEYED NOTES**
- OUTSIDE AIR DUCT CONTINUES TO SECOND LEVEL.
  - COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
  - WALL MOUNT CO<sub>2</sub> SENSOR. TIE TO OUTSIDE AIR DAMPER IN SPACE FOR DEMAND CONTROL VENTILATION CONTROL.
  - COOLING ONLY VAV BOX TO MODULATE VENTILATION AIR SUPPLY.
  - TRANSFER AIR DUCT PLACE OPENING AT TOP OF DUCT.
  - PROVIDE 24"X24" ACCESS DOOR PAINT TO MATCH CEILING.
  - PLACE LINER DIFFUSERS ON SIDE WITH AIRFLOW DIRECT DOWN TOWARDS THE WINDOWS (TYPICAL).
  - PLACE OPENING AT TOP OF DUCT.

- GENERAL NOTES**
- COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
  - COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
  - INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
  - NO FLEX DUCT ABOVE HARD CEILINGS.
  - PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SM-HS02 FOR TRANSFERS A-G.



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**LEVEL 1  
MECHANICAL  
FLOOR PLAN -  
AREA 'B'**

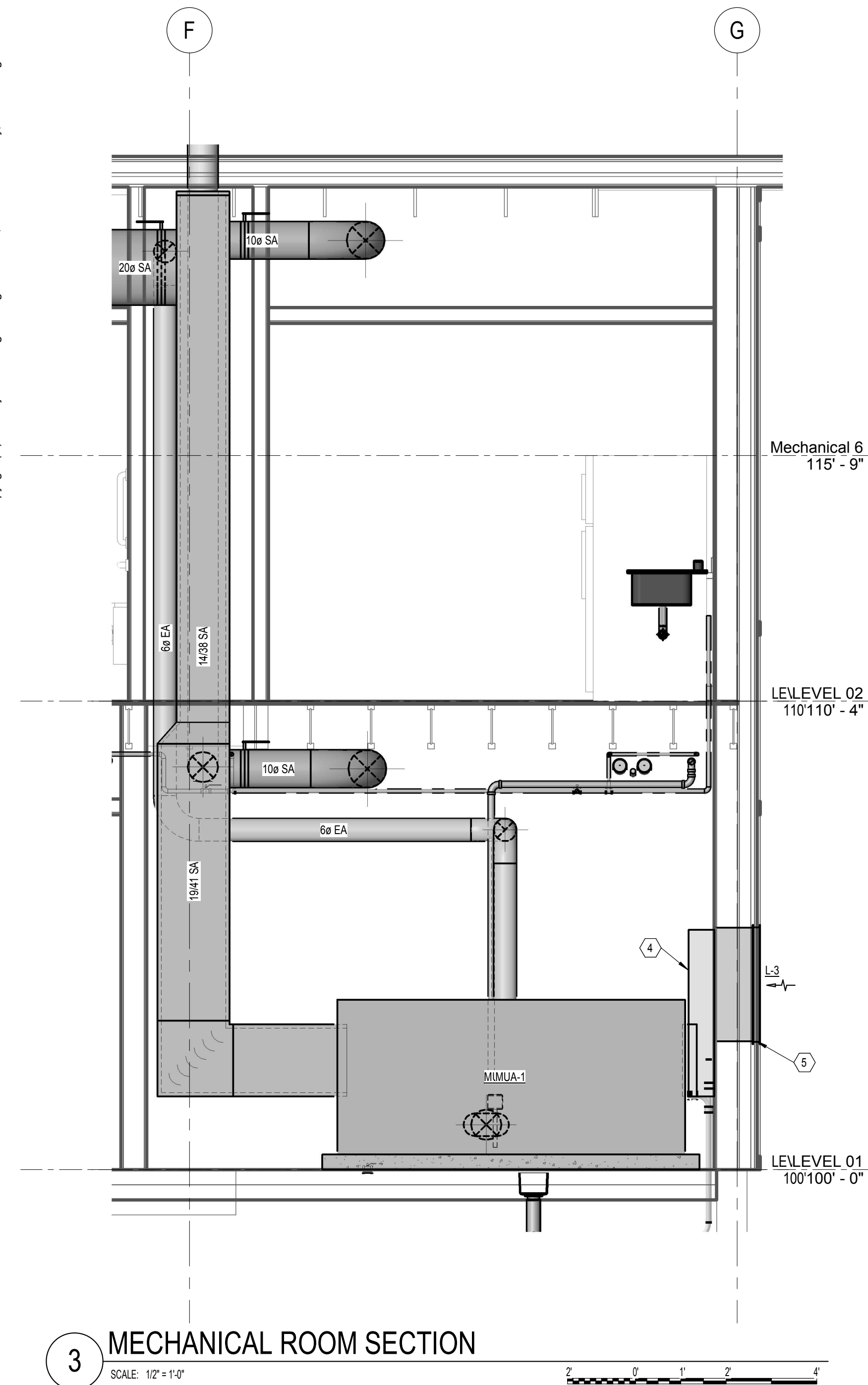
**M101B**

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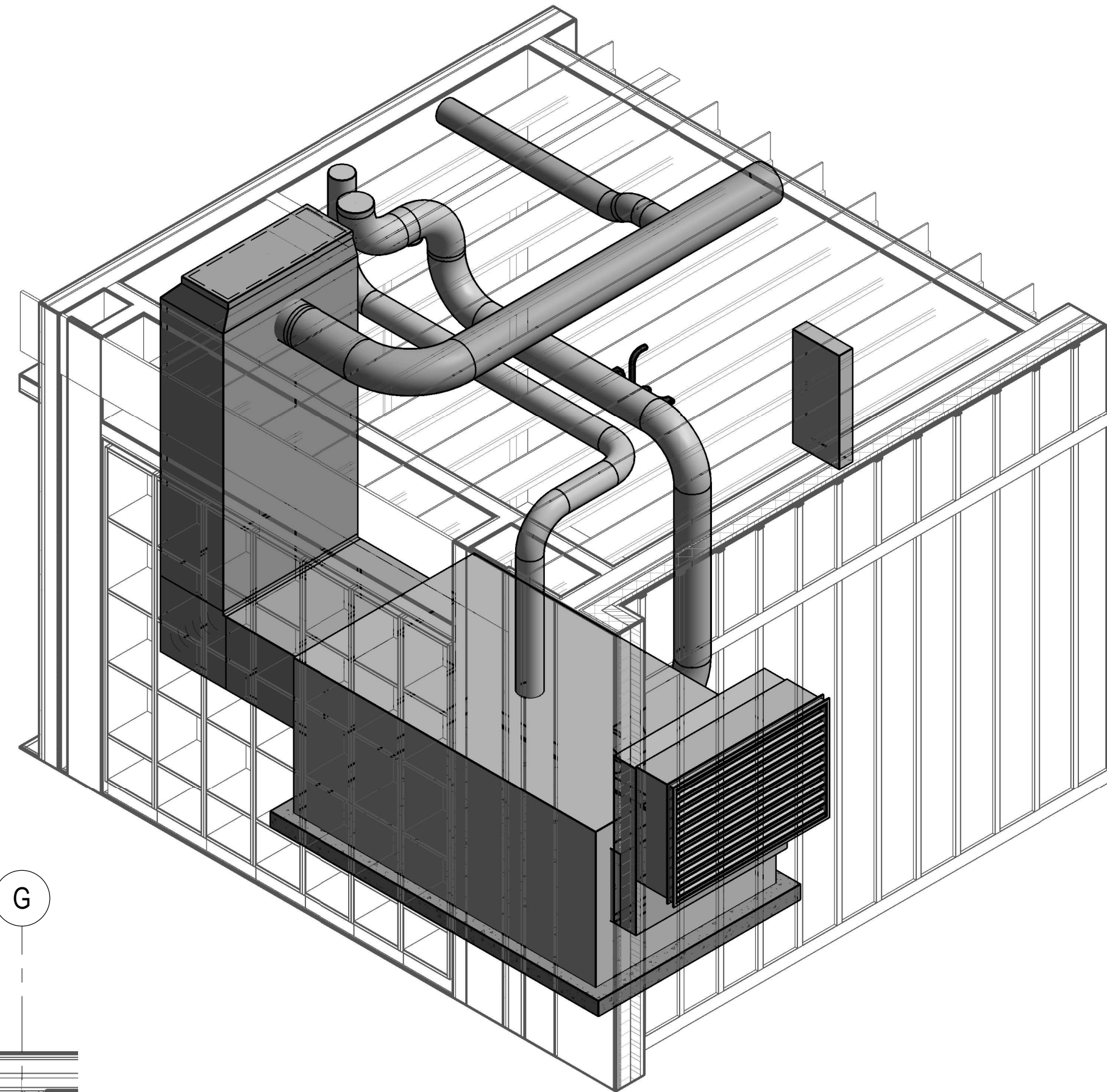


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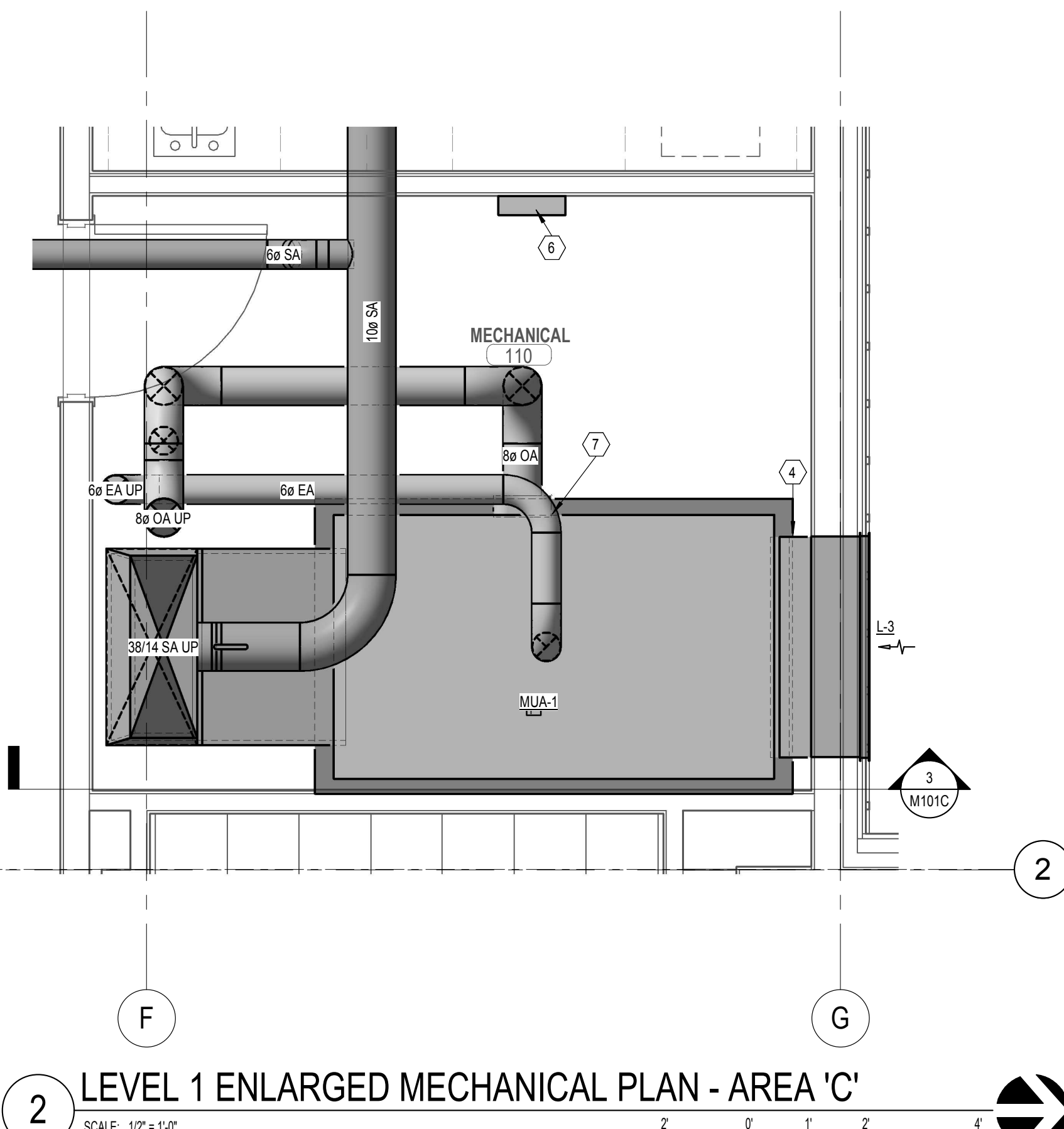
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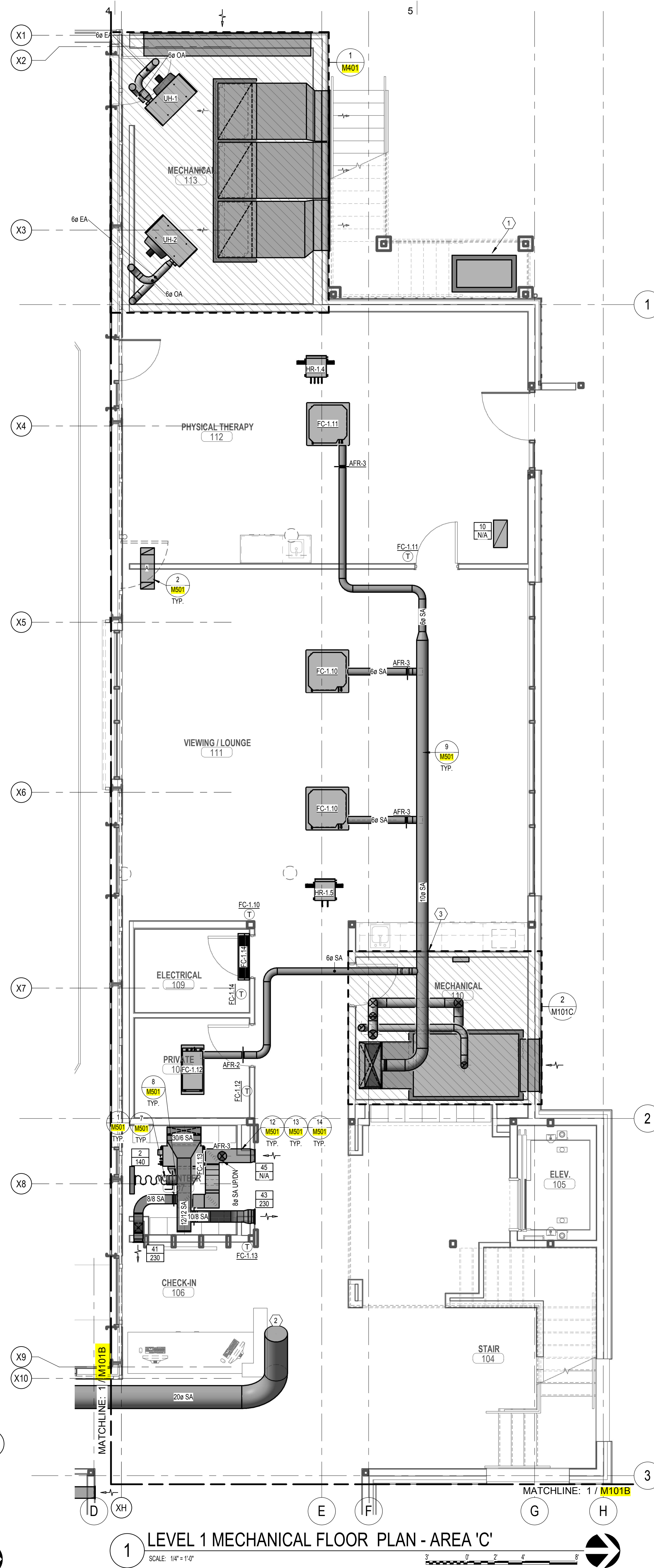
3 MECHANICAL ROOM SECTION  
SCALE: 1/2" = 1'-0"



4 MECHANICAL ROOM VIEW AREA 'C'  
SCALE: 1" = 0'-0"



2 LEVEL 1 ENLARGED MECHANICAL PLAN - AREA 'C'  
SCALE: 1/2" = 1'-0"



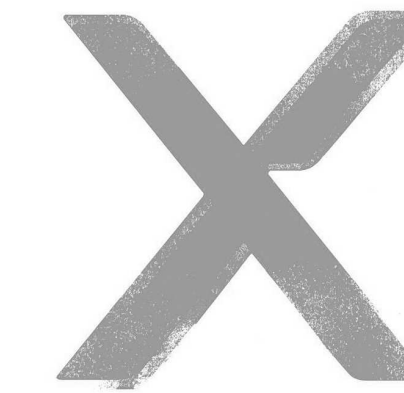
1 LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'C'  
SCALE: 1/4" = 1'-0"

#### KEYED NOTES

- HOUSEKEEPING PAD FOR NATURAL GAS METER. SEE PLUMBING DRAWINGS FOR DETAILS.
- OUTSIDE AIR DUCT CONTINUES TO SECOND LEVEL.
- COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
- PROVIDE PLENUM BOX FOR OUTSIDE AIR SUPPLY TO THE DOAS UNIT.
- BOTTOM OF LOUVER SHALL BE 2" ABOVE GRADE MINIMUM.
- ATC PANEL.
- PROVIDE TRANSITION FITTINGS FROM EQUIPMENT OVAL DUCT COLLAR TO ROUND.

#### GENERAL NOTES

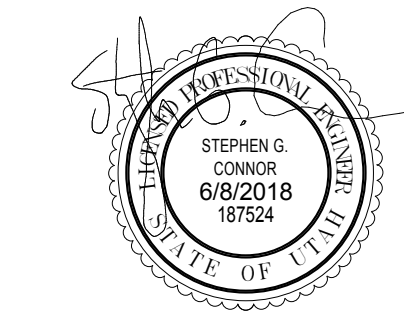
- COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
- NO FLEX DUCT ABOVE HARD CEILING.
- PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 5M-HS02 FOR TRANSFERS A-G.



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DRAWN BY: CEA  
DATE: 06.08.18

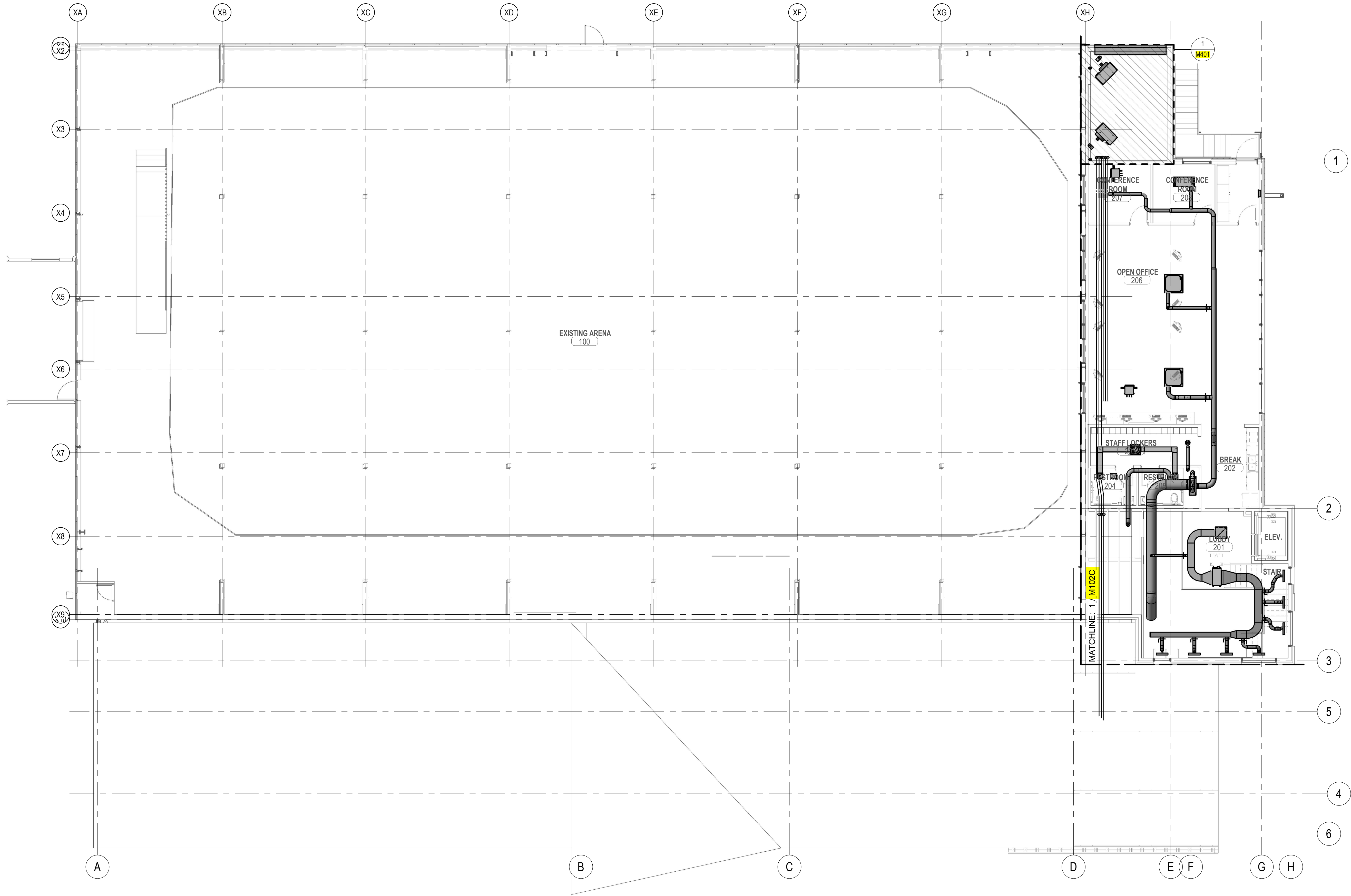
#### LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'C'

M101C



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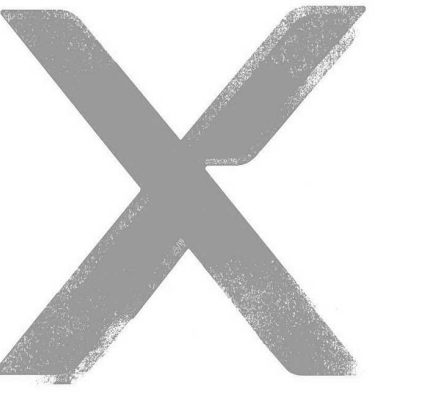
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## KEYED NOTES

## GENERAL NOTES

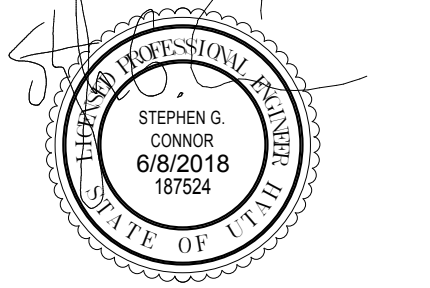
- COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
- NO FLEX DUCT ABOVE HARD CEILINGS.
- PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SMH502 FOR TRANSFERS A-G.



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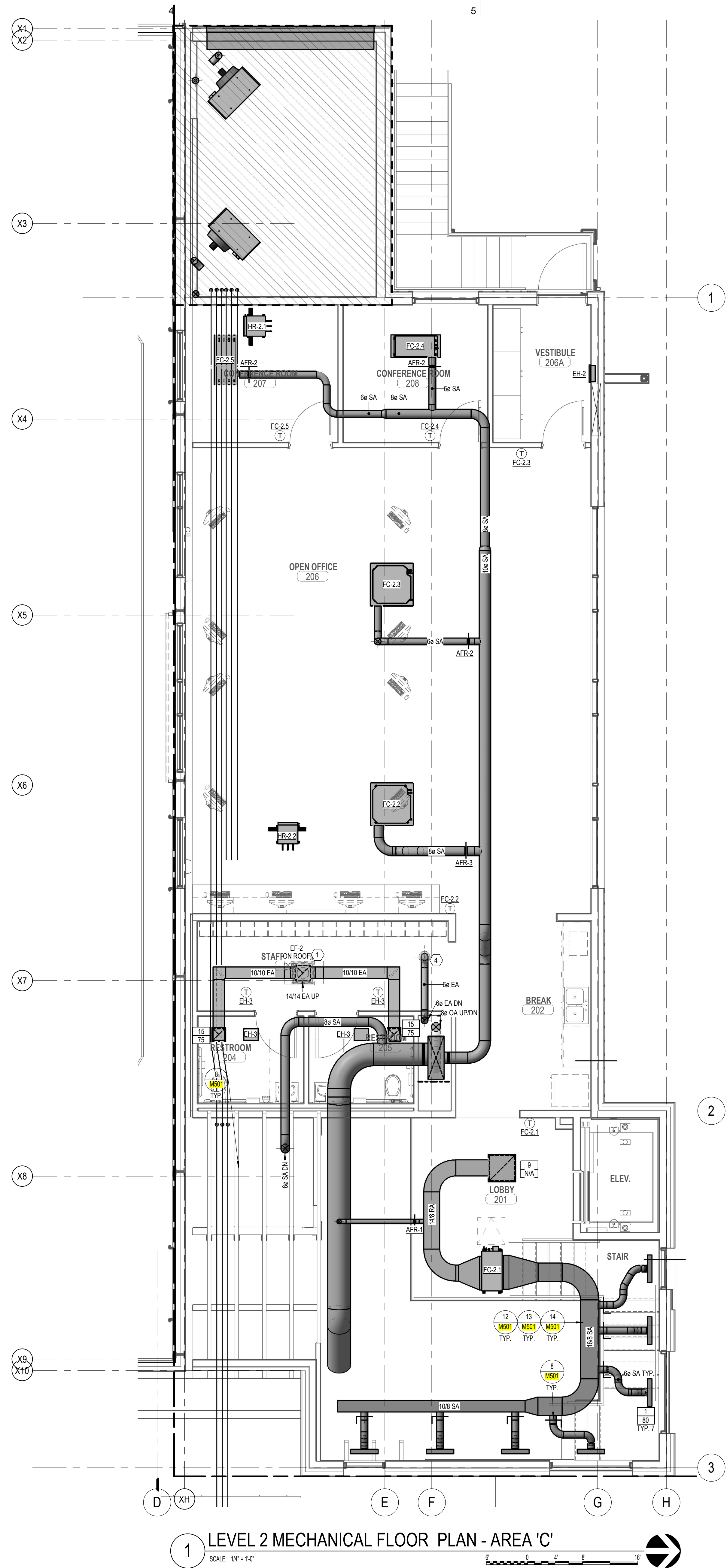
## LEVEL 2 OVERALL MECHANICAL FLOOR PLAN

# M102



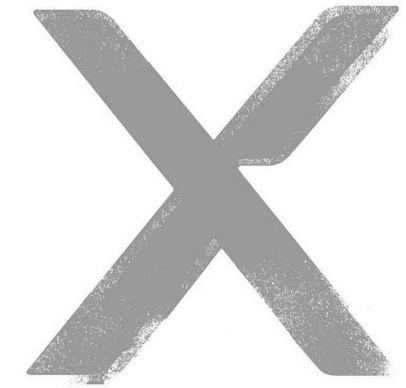
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6/1/2018 9:23:54 AM



- KEYED NOTES**
1. ROOF MOUNTED EXHAUST FAN.
  2. VRF PIPING SHOWN FOR REFERENCE ONLY. SEE SCHEMATIC DETAILS FOR VRF BOX AND INDOOR UNIT PIPING AND SIZES.
  3. VRF PIPING TO BE ENCLOSED IN BETWEEN BEAMS. PIPING CONTINUES DOWN TO LEVEL 1.
  4. DOAS UNIT EXHAUST VENT THROUGH ROOF. PROVIDE CODE COMPLIANT VENT CAP. RISE A MINIMUM 3' ABOVE ROOF LINE.

- GENERAL NOTES**
- A. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
  - B. COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
  - C. INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.
  - D. NO FLEX DUCT ABOVE HARD CEILING.
  - E. PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SM-HS02 FOR TRANSFERS A-G.



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**LEVEL 2  
MECHANICAL FLOOR PLAN -  
AREA 'C'**

**M102C**





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- A. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANICAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- B. COORDINATE LOCATION OF DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- C. INSTALL ALL MECHANICAL SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS.
- D. NO FLEX DUCT ABOVE HARD CEILINGS.
- E. PLENUM TO PLENUM AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 5/MH502 FOR TRANSFERS A-G.

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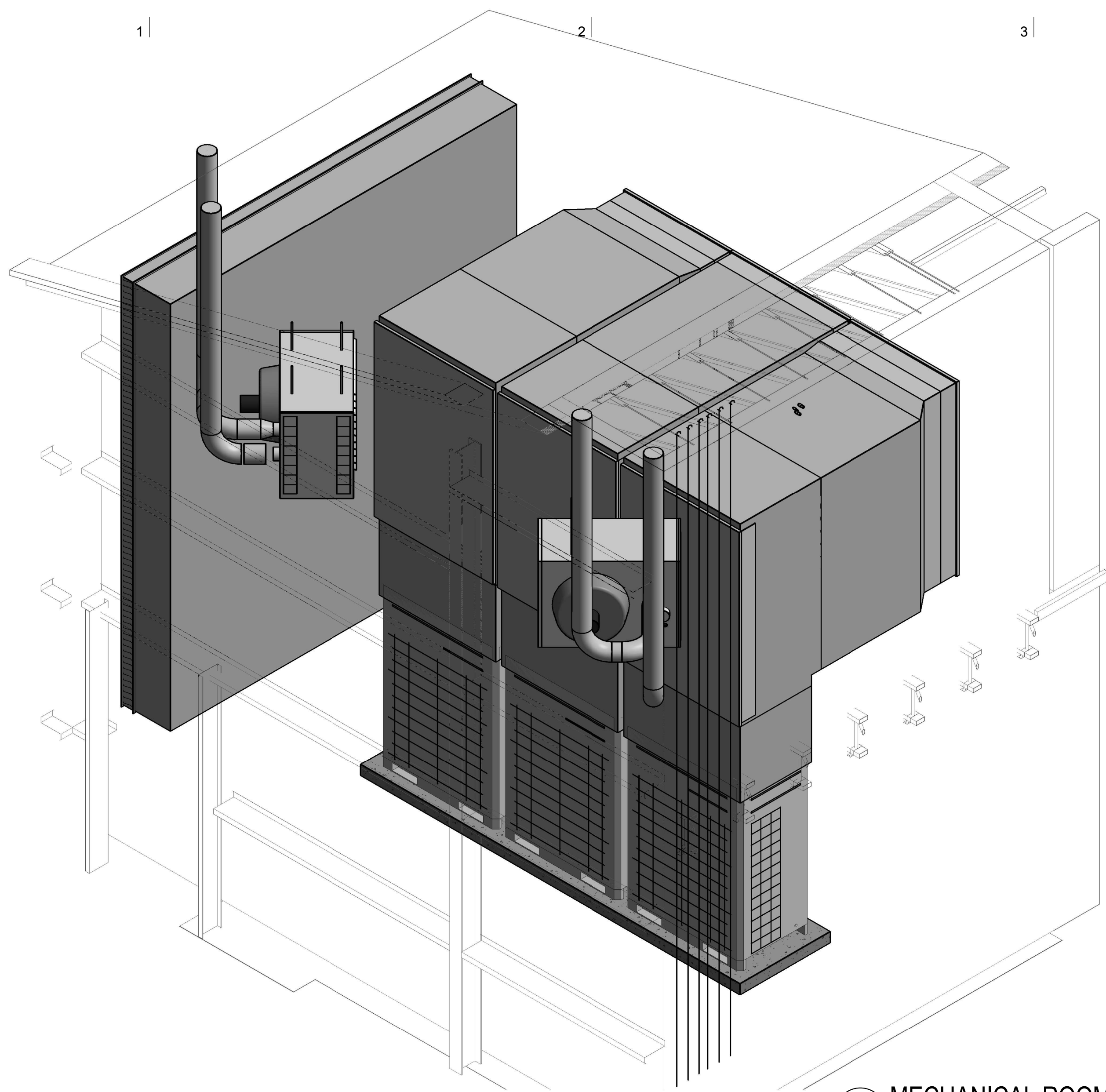
#	Date	Revision

**MECHANICAL  
VIEW ISO**

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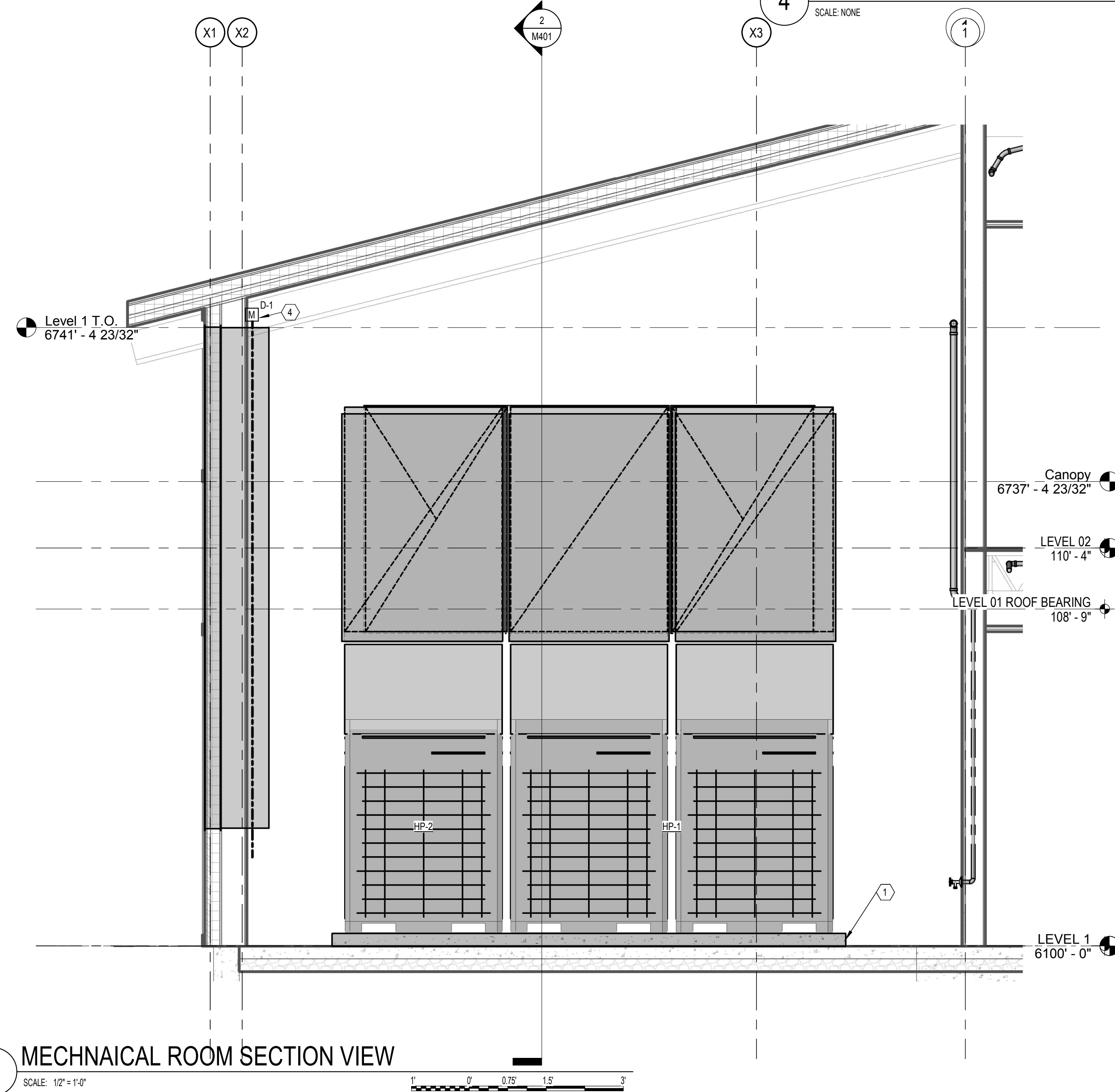






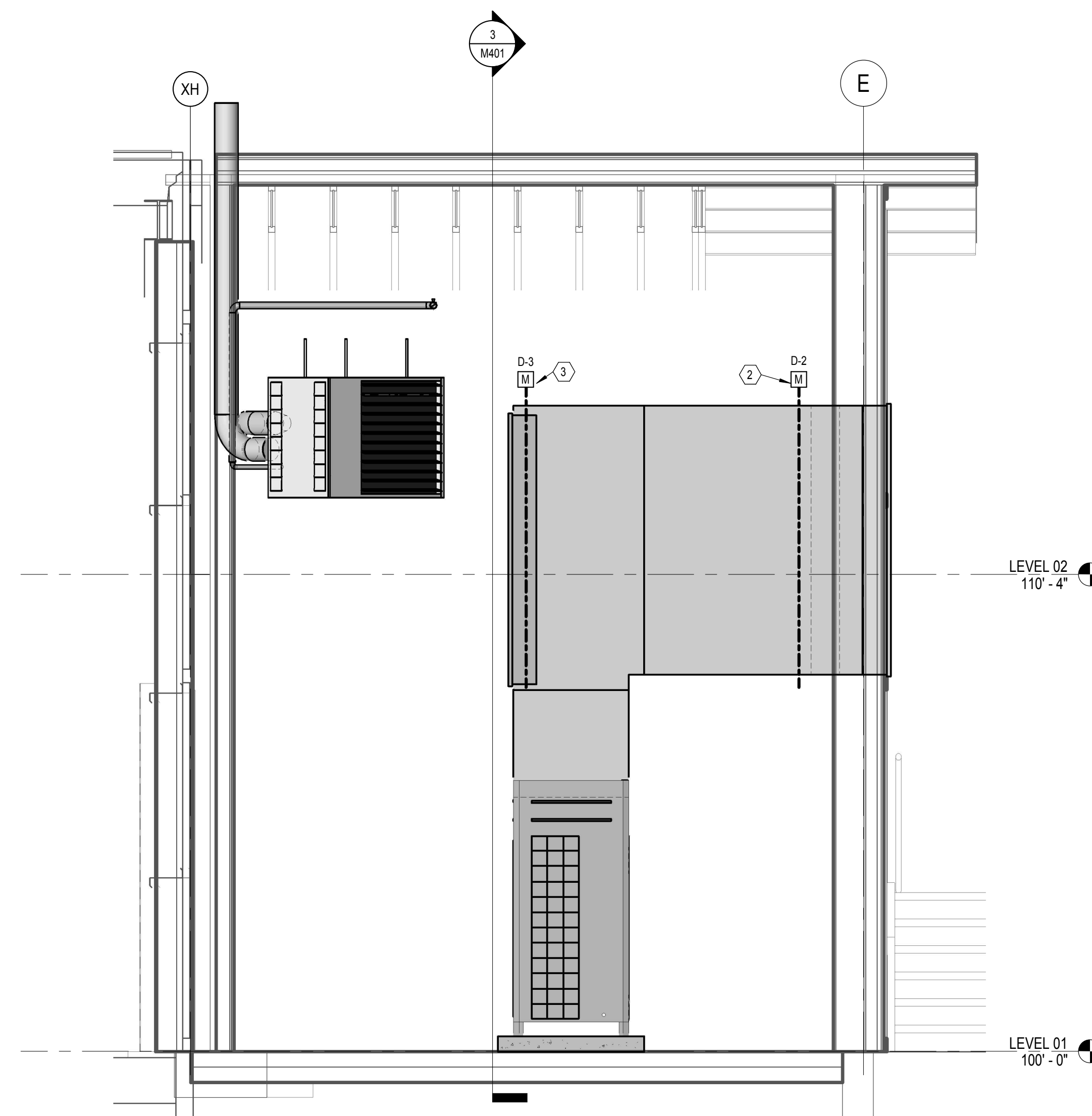
4 MECHANICAL ROOM VIEW

SCALE: NONE



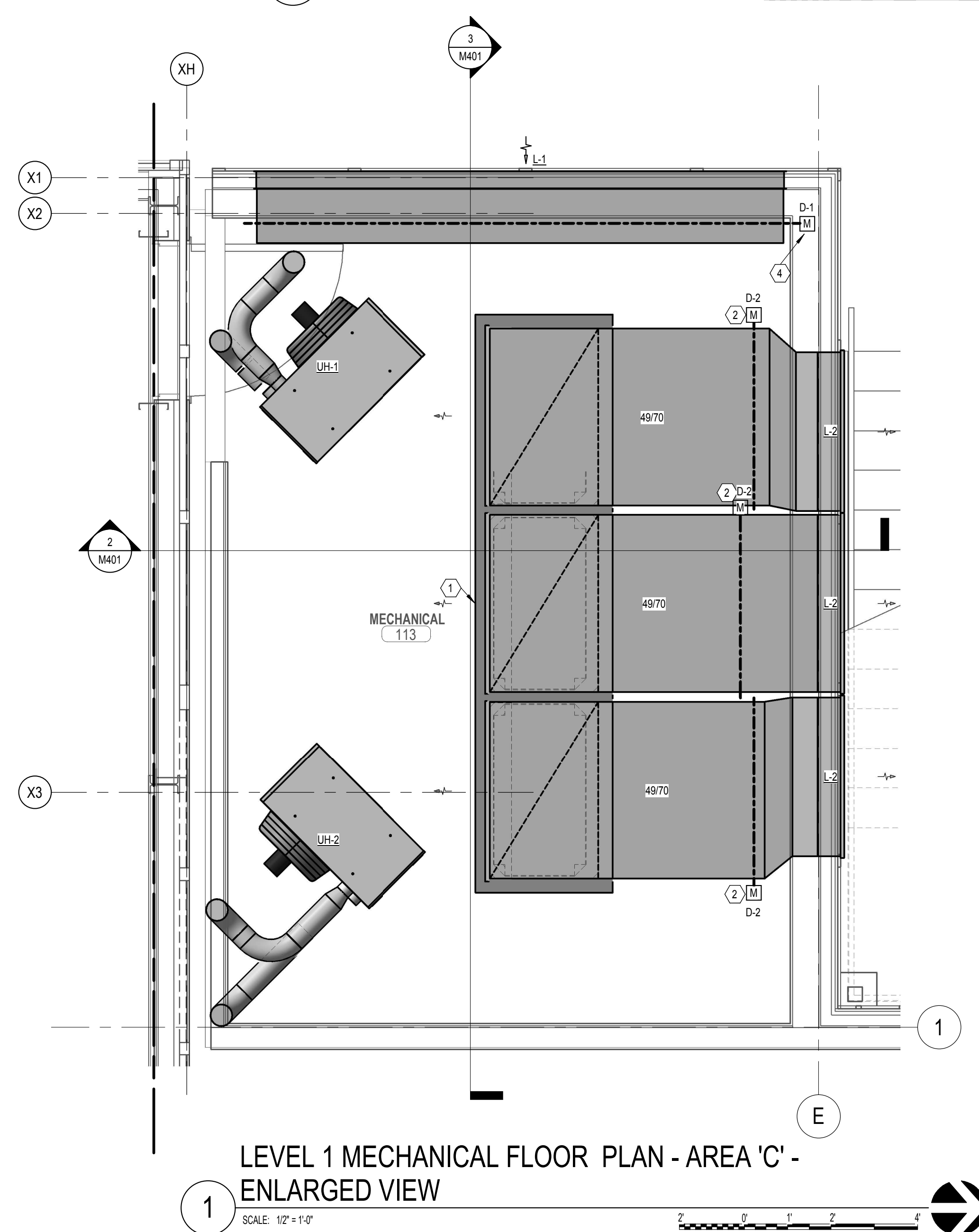
3 MECHNAICAL ROOM SECTION VIEW

SCALE: 1/2\"/>



2 MECHANICAL ROOM SECTION VIEW

SCALE: 1/2\"/>



LEVEL 1 MECHANICAL FLOOR PLAN - AREA 'C' - ENLARGED VIEW

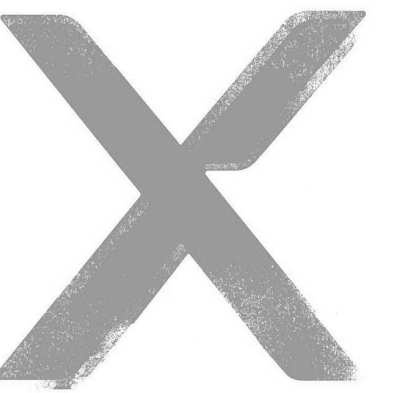
SCALE: 1/2\"/>

#### KEYED NOTES

- 1 PROVIDE 4\"/>

#### GENERAL NOTES

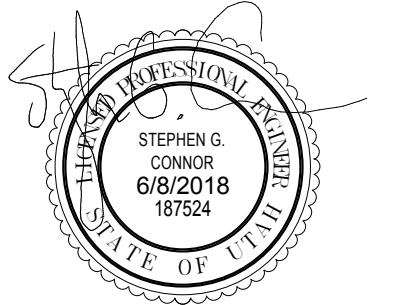
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- D. NO FLEX DUCT ABOVE HARD CEILINGS.
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DRAWN BY: CEA  
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#### ENLARGED MECHANICAL PLANS

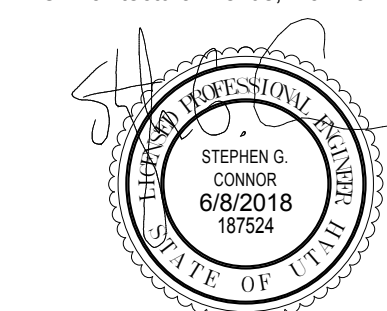
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#	Date	Revision

#	Date	Revision
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## MECHANICAL DETAILS

# M501

[illegible]

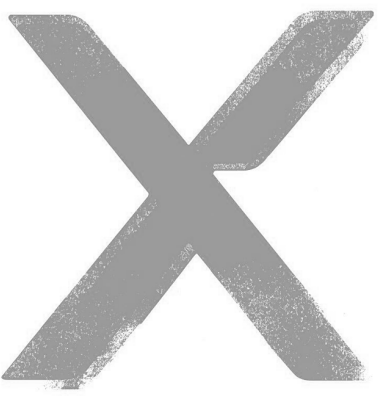
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NOT USED							
1	NO SCALE	2	ELECTRIC UNIT HEATER DETAIL NO SCALE	3	INDOOR SPLIT SYSTEM DETAIL NO SCALE	4	FAN COIL SUPPORT DETAIL NO SCALE
NOT USED				NOT USED		NOT USED	
5	NO SCALE	6	VAV/FPB CONNECTION DETAIL NO SCALE	7	NO SCALE	8	NO SCALE
NOT USED		NOT USED		NOT USED		NOT USED	
9	NO SCALE	10	NO SCALE	11	NO SCALE	12	NO SCALE
NOT USED		NOT USED		NOT USED		NOT USED	
13	NO SCALE	14	NO SCALE	15	NO SCALE	16	NO SCALE

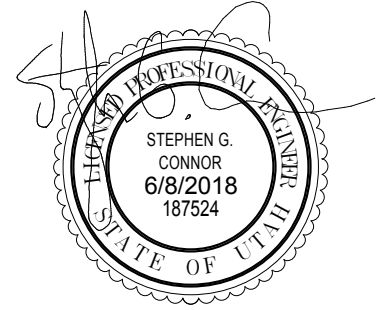
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# Date Revision

**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 17179  
CHECKED BY: BRC  
DRAWN BY: CEA  
DATE: 06.08.18

**MECHANICAL DETAILS**

**M502**

6/11/2018 5:32:46 AM



E

D

C

B

A

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)
						BHP	HP	EFFICIENCY %	VOLTI/PH					
EF-1	LEVEL 1 GENERAL	ROOFTOP DOWNBLAST	900	55	1355	1/6	.136	NA	1151	8.9	MOTOR	OCCUPANCY	15.5'X15.5'	76
EF-2	LEVEL 2 GENERAL	ROOFTOP DOWNBLAST	150	46	1472	1/6	.04	NA	1151	5.3	MOTOR	OCCUPANCY	13.5'X13.5'	52

MAKE UP AIR UNIT SCHEDULE (MUA)														
PLAN CODE	CFM @ ELEV	EXTERNAL SP (IN WG)	FAN			HEATING		MAXIMUM DIMENSIONS ①				MANUFACTURER & MODEL NO		REMARKS
			HP	VOLTI/PH	VFD	TYPE	OUTPUT MBH	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)			
MUA-1	4000	2	2.87	208/3	3 HP	NG	222	92	55	41	1042	STERLING MES6A801J43410AB3E3K3H4J1KSR2		-

① SPACE IN MECHANICAL ROOM IS LIMITED. MAXIMUM DIMENSIONS LISTED ARE CRITICAL.

GAS FIRED UNIT HEATER SCHEDULE (UH)														
PLAN CODE	SPECIFIED UNIT CAPACITY (MBH)			CFM (STD)	THROW AT 18' MOUNTING (FT)	ELECTRICAL			MAX DIMENSIONS				MANUFACTURER & MODEL NO	REMARKS
	INPUT (SL)	OUTPUT (SL)	OUTPUT 7,000 FT			VOLTI/PH	FAN HP	MOTOR AMPS	TOTAL AMPS	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
UH-1	300	246	196.8	4545	69	120/1	1/2	7	8.11	42.53	22.05	31.31	MOORE PTS 300	-
UH-2	300	246	196.8	4545	69	120/1	1/2	7	8.11	42.53	22.05	31.31	MOORE PTS 300	-

ELECTRIC HEATER SCHEDULE (EH) ①									
PLAN CODE	ELECTRICAL			CFM (ALT)	MOUNTING	QUANTITY	MANUFACTURER & MODEL NO		REMARKS
	TYPE	TOTAL KW	VOLTI/PH						
EH-1	WALL MOUNT	4	208/1	19.2	100	2' AFF	QMARK AWH408F		-
EH-2	WALL MOUNT	2	208/1	9.6	100	2' AFF	QMARK AWH408F		-
EH-3	CEILING	NA	120/1	8.3	65	CEILING	QMARK QCH1101F		-

① THERMOSTAT IS INTEGRAL TO THE UNIT.

AIRFLOW REGULATOR (AFR)				
PLAN CODE	DIAMETER	CFM RANGE	MANUFACTURER & MODEL NO	REMARKS
AFR - 1	4"	10 - 60	ALDES CAR-IIA 18 110A - 18 109A	① 0 To 2 CLIPS
AFR - 2	5"	35 - 105	ALDES CAR-IIA 18 121A - 18 124A	① 0 To 2 CLIPS
AFR - 3	6"	75 - 175	ALDES CAR-IIA 18 131A - 18 134A	① 0 To 3 CLIPS
AFR - 4	8"	125 - 295	ALDES CAR-IIA 18 141A - 18 145A	① 0 To 3 CLIPS
AFR - 5	10"	205 - 401	ALDES CAR-IIA 18 151A - 18 155A	① 0 To 3 CLIPS
AFR - 6	8"	415-470	ALDES CAR-IHP 18 346 - 18 347	① HIGH PRESSURE, NO CLIPS
AFR - 7	10"	525-705	ALDES CAR-IHP 18 355 - 18 358	① HIGH PRESSURE, NO CLIPS

① PROVIDE TRANSITIONS FROM DUCT TO AIR FLOW REGULATOR.

LOUVER SCHEDULE (L)				
PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)
L-1	33,900	350	95	145 x 156
L-2	11,300	900	20.6	44 x 70
L-3	4,000	800	5	46 x 30

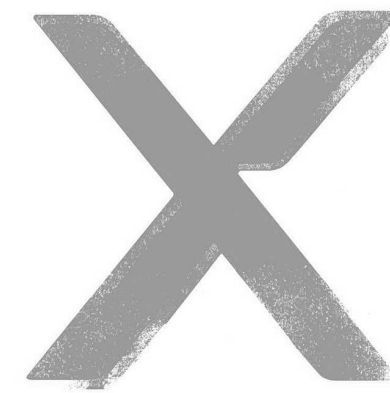
VAV COOLING ONLY						
PLAN CODE	INLET SIZE (IN)	DESIGN INLET SP (IN WC)	MAX CFM	MAX NC	MAX SP DROP (IN WC)	MIN CONTROL CFM
6C	6	1.0	500	34	0.22	80
8C	8	1.0	900	33	0.05	150
10C	10	1.0	1200	34	0.05	230
12C	12	1.0	1600	34	0.05	325
14C	14	1.0	2600	35	0.07	450
16C	16	1.0	3400	35	0.05	580
24C	24	1.0	5000	35	0.05	1400

MOTORIZED DAMPER SCHEDULE (D)					
PLAN CODE	CFM	VELOCITY (FPM)	FREE AREA (SF)	MAX DIMENSIONS (WxH) (IN)	DUTY
D-1	33,900	350	95	145 x 156	FULLY OPEN/CLOSE
D-2	11,300	900	20.6	44 x 70	FULLY OPEN/CLOSE
D-3	11,300	900	20.6	44 x 70	FULLY OPEN/CLOSE

AIR DEVICE SCHEDULE														
PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	CEILING TYPE ②	MAX CFM	MAX TP (IN WC)	NC LEVEL MAX	MIN THROW (FT) (T30)	4-WAY MIN THROW (T30)	2-WAY MIN THROW (T30)	MANUFACTURER & MODEL NO		REMARKS	
1	LINEAR SUPPLY	24"L	8"D	MATCH CEILING	80	0.08	32	12	-	-	TEMPO L.D.		1 @ 1" SLOT	
2	LINEAR SUPPLY	24"L	8"D	MATCH CEILING	160	0.09	33	13	-	-	TEMPO L.D.		2 @ 1" SLOT	
3	LINEAR SUPPLY	24"L	8"D	MATCH CEILING	240	0.10	34	14	-	-	TEMPO L.D.		3 @ 1" SLOT	
4	LINEAR SUPPLY	24"L	10"D	MATCH CEILING	320	0.11	35	15	-	-	TEMPO L.D.		4 @ 1" SLOT	
5	LINEAR SUPPLY	48"L	8"D	MATCH CEILING	160	0.08	32	12	-	-	TEMPO L.D.		1 @ 1" SLOT	
6	LINEAR SUPPLY	48"L	10"D	MATCH CEILING	320	0.09	33	13	-	-	TEMPO L.D.		2 @ 1" SLOT	
7	LINEAR SUPPLY	48"L	12"D	MATCH CEILING	480	0.10	34	14	-	-	TEMPO L.D.		3 @ 1" SLOT	
8	LINEAR SUPPLY	48"L	12"D	MATCH CEILING	640	0.11	35	15	-	-	TEMPO L.D.		4 @ 1" SLOT	
9	PERFORATED RETURN	24" X 24"	22" X 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS PAR		-	
10	PERFORATED RETURN	24" X 12"	22" X 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS PAR		-	
11	PERFORATED EXHAUST	24" X 24"	22" X 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS PAR		-	
12	PERFORATED EXHAUST	24" X 12"	22" X 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS PAR		-	
13	PERFORATED EXHAUST GRILLE	8" X 8"	6" X 6"	MATCH CEILING	120	0.12	10	-	-	-	TITUS BF		-	
14	PERFORATED EXHAUST GRILLE	10" X 10"	8" X 8"	MATCH CEILING	225	0.12	12	-	-	-	TITUS BF		-	
15	PERFORATED EXHAUST GRILLE	12" X 12"	10" X 10"	MATCH CEILING	360	0.12	14	-	-	-	TITUS BF		-	
16	PERFORATED EXHAUST GRILLE	14" X 14"	12" X 12"	MATCH CEILING	550	0.12	16	-	-	-	TITUS BF		-	
17	PERFORATED EXHAUST GRILLE	16" X 16"	14" X 14"	MATCH CEILING	750	0.12	17	-	-	-	TITUS BF		-	
18	PERFORATED EXHAUST GRILLE	20" X 20"	18" X 18"	MATCH CEILING	1250	0.12	19	-	-	-	TITUS BF		-	
19	PERFORATED EXHAUST GRILLE	24" X 24"	22" X 22"	MATCH CEILING	1900	0.12	21	-	-	-	TITUS BF		-	
20	PERFORATED EXHAUST GRILLE	32" X 32"	30" X 30"	SURFACE	3600	0.12	24	-	-	-	TITUS BF		-	
21	RADIAL BLADE DIFFUSER	12"	8"	SURFACE	210	0.14	29	8	①	-	AIR DIFFUSION PRODUCTS DNR		-	
22	RADIAL BLADE DIFFUSER	15"	10"	SURFACE	330	0.14	29	10	①	-	AIR DIFFUSION PRODUCTS DNR		-	
23	RADIAL BLADE DIFFUSER	18"	12"	SURFACE	470	0.14	30	12	①	-	AIR DIFFUSION PRODUCTS DNR		-	
24	RADIAL BLADE DIFFUSER	21"	14"	SURFACE	640	0.14	30	14	①	-	AIR DIFFUSION PRODUCTS DNR		-	
25	RADIAL BLADE DIFFUSER	24"	16"	SURFACE	840	0.14	30	15	①	-	AIR DIFFUSION PRODUCTS DNR		-	
26	RADIAL BLADE DIFFUSER	24" X 24"	8"D	GRID	210	0.14	29	8	①	-	AIR DIFFUSION PRODUCTS DNR		-	
27	RADIAL BLADE DIFFUSER	24" X 24"	10"D	GRID	330	0.14	29	10	①	-	AIR DIFFUSION PRODUCTS DNR		-	
28	RADIAL BLADE DIFFUSER	24" X 24"	12"D	GRID	470	0.14	30	12	①	-	AIR DIFFUSION PRODUCTS DNR		-	
29	RADIAL BLADE DIFFUSER	24" X 24"	14"D	GRID	640	0.14	30	14	①	-	AIR DIFFUSION PRODUCTS DNR		-	
30	RADIAL BLADE DIFFUSER	24" X 24"	16"D	GRID	840	0.14	30	15	①	-	AIR DIFFUSION PRODUCTS DNR		-	
31	ADJUSTABLE LOUVERED	24" X 24"	6"D	MATCH CEILING	170	0.13	25	ADJUSTABLE	11	18	TITUS TDCA		18" x 18" CORE	
32	ADJUSTABLE LOUVERED	24" X 24"	8"D	MATCH CEILING	310	0.13	27	ADJUSTABLE	14	24	TITUS TDCA		18" x 18" CORE	
33	ADJUSTABLE LOUVERED	24" X 24"	10"D	MATCH CEILING	440	0.13	28	ADJUSTABLE	17	26	TITUS TDCA		18" x 18" CORE	
34	ADJUSTABLE LOUVERED	24" X 24"	12"D	MATCH CEILING	600	0.14	28	ADJUSTABLE	21	33	TITUS TDCA		18" x 18" CORE	
35	ADJUSTABLE LOUVERED	24" X 24"	14"D	MATCH CEILING	800	0.13	29	ADJUSTABLE	24	39	TITUS TDCA		18" x 18" CORE	
36	ADJUSTABLE LOUVERED	24" X 24"	16"D	MATCH CEILING	950	0.11	29	ADJUSTABLE	26	41	TITUS TDCA		18" x 18" CORE	
37	BAR FLOOR DIFFUSER	2 1/2"	2 1/2" x L	-	80/FT	0.10	24	-	-	-	TITUS CT-480		-	
38	BAR FLOOR DIFFUSER	4"	4" x L	-	150/FT	0.10	28	-	-	-	TITUS CT-480		-	
39	BAR FLOOR DIFFUSER	6"	6" x L	-	230/FT	0.09	28	-	-	-	TITUS CT-480		-	
40	THERMALLY CONTROLLED DIFFUSER	24" X 24"	8"D	GRID	260	0.15	35	-	-	-	THERMAFUSER		-	
41	SIDE WALL SUPPLY	8" X 8"	8" X 8"	-	-	-	30	-	-	-	TITUS 300FS		-	
42	SIDE WALL SUPPLY	10" X 10"	10" X 10"	-	-	-	30	-	-	-	TITUS 300FS		-	
43	SIDE WALL SUPPLY	12" X 12"	12" X 12"	-	-	-	30	-	-	-	TITUS 300FS		-	
44	SIDE WALL RETURN	10" X 10"	10" X 10"	-	-	-	30	-	-	-	TITUS 300FS		-	
45	SIDE WALL RETURN	12" X 12"	12" X 12"	-	-	-	30	-	-	-	TITUS 300FS		-	

① RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.

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



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# Date Revision

CONSTRUCTION  
DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: BRC  
DRAWN BY: CEA  
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MECHANICAL  
SCHEDULES

M601

AGENCY APPROVAL



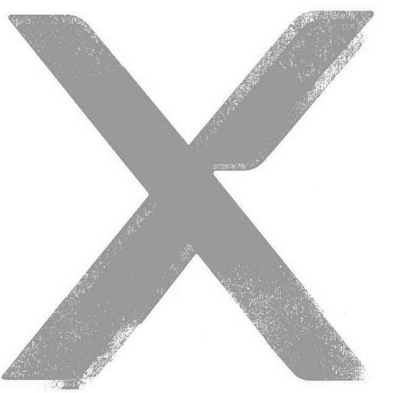
Multi V Indoor Unit Equipment Schedule ①②③④																					
System	Mark	Room Name	Model Number	Type	Quantity	Nominal Capacity (BTU/h)			Corrected Capacity (BTU/h)			Entering (Return) Air Temperature (°F)			Ventilation Required (CFM)	Piping Connections (in.)		Power			
						Total Cooling	Sensible Cooling	Heating	Total Cooling	Sensible Cooling	Heating	Cooling DB	Cooling WB	Heating DB		Liquid	Gas	Volts	Phase	Hz	RLA
HP-1	FC-1.1	Multi Use (South Space)	ARNU963B8A4	DUCT_HIGH_STATIC	1	95900	67100	107500	94250	66490	91122	81	66	68	315	3/8	7/8	208~230V	1Ph	60Hz	5.2
HP-1	FC-1.2	Multi Use (Central Space)	ARNU963B8A4	DUCT_HIGH_STATIC	1	95900	67100	107500	94250	66490	91122	81	66	68	465	3/8	7/8	208~230V	1Ph	60Hz	5.2
HP-1	FC-1.3	Lobby	ARNU183TNA4	CASSETTE_4WAY	1	19100	15280	21500	18771	15134	18224	81	66	68	30	3/8	5/8	208~230V	1Ph	60Hz	0.56
HP-1	FC-1.4	Corridor	ARNU483TMC4	CASSETTE_4WAY	1	48100	34600	51200	47272	34276	43400	81	66	68	45	3/8	5/8	208~230V	1Ph	60Hz	1.3
HP-1	FC-1.5	Multi Use (north Space)	ARNU963B8A4	DUCT_HIGH_STATIC	1	95900	67100	107500	94250	66490	91122	81	66	68	465	3/8	7/8	208~230V	1Ph	60Hz	5.2
HP-1	FC-1.6	Corridor	ARNU423TMC4	CASSETTE_4WAY	1	42000	30200	43800	41277	29927	37127	81	66	68	35	3/8	5/8	208~230V	1Ph	60Hz	1.3
HP-1	FC-1.7	Warming Kitchen	ARNU243TNA4	CASSETTE_4WAY	1	24200	19602	27300	23784	19401	23141	81	66	68	40	3/8	5/8	208~230V	1Ph	60Hz	0.56
HP-1	FC-1.8	Meeting Room	ARNU483B8A4	DUCT_HIGH_STATIC	1	48100	34700	51200	47272	34338	43400	81	66	68	200	3/8	3/4	208~230V	1Ph	60Hz	5.2
HP-1	FC-1.9	Main Entryway Lobby	ARNU153BH4A	DUCT_HIGH_STATIC	1	15400	11200	17100	15135	11080	14495	81	66	68	35	1/4	1/2	208~230V	1Ph	60Hz	1.06
HP-2	FC-1.10	Viewing Area/parent Lounge/education	ARNU123TNA4	CASSETTE_4WAY	2	12300	9100	13600	12088	8997	11528	81	66	68	210	3/8	5/8	208~230V	1Ph	60Hz	0.56
HP-2	FC-1.11	Physical Therapy	ARNU183TNA4	CASSETTE_4WAY	1	19100	15280	21500	18771	15134	18224	81	66	68	100	3/8	5/8	208~230V	1Ph	60Hz	0.56
HP-2	FC-1.12	Quiet Room	ARNU073TUC4	CASSETTE_1WAY	1	7500	5300	8500	7371	5226	7205	81	66	68	15	1/4	1/2	208~230V	1Ph	60Hz	0.18
HP-2	FC-1.13	Student/volunteer/entrance Lobby	ARNU243BH4A	DUCT_HIGH_STATIC	1	24200	17700	27300	23784	17518	23141	81	66	68	90	3/8	5/8	208~230V	1Ph	60Hz	1.06
HP-2	FC-1.14	Elec/Data Room	ARNU243SCL4	WALL_MOUNTED	1	24200	17400	27300	23784	17236	23141	81	66	68	0	3/8	5/8	208~230V	1Ph	60Hz	0.29
HP-2	FC-2.1	Space Above Entrance Lobby	ARNU243BH4A	DUCT_HIGH_STATIC	1	24200	17700	27300	23784	17518	23141	81	66	68	40	3/8	5/8	208~230V	1Ph	60Hz	1.06
HP-2	FC-2.2	Open Office/staffcubbies/break Area	ARNU423TMC4	CASSETTE_4WAY	1	42000	30200	43800	41277	29927	37127	81	66	68	130	3/8	5/8	208~230V	1Ph	60Hz	1.3
HP-2	FC-2.3	Open Office	ARNU243TNA4	CASSETTE_4WAY	1	24200	19602	27300	23784	19401	23141	81	66	68	80	3/8	5/8	208~230V	1Ph	60Hz	0.56
HP-2	FC-2.4	Conference Room	ARNU073TUC4	CASSETTE_1WAY	1	7500	5300	8500	7371	5226	7205	81	66	68	30	1/4	1/2	208~230V	1Ph	60Hz	0.18
HP-2	FC-2.5	Conference Room	ARNU073TUC4	CASSETTE_1WAY	1	7500	5300	8500	7371	5226	7205	81	66	68	30	1/4	1/2	208~230V	1Ph	60Hz	0.18

- ① PROVIDE CONDENSATE PUMP WITH EACH UNIT.
- ② PROVIDE ISOLATION VALVES FOR EACH UNIT.
- ③ PROVIDE CEILING CASSETTES WITH LG VENTILATION KIT.
- ④ SENSOR IN DRAIN PAN TO BE MOUNTED ABOVE PRIMARY DRAIN TO ALARM AND SHUT DOWN UNIT WHEN ACTIVATED

Multi V Outdoor Unit Equipment Schedule - Air																							
Mark	Model Number	Type	Quantity	Cooling Capacity (BTU/h)		Corrected Capacity (BTU/h)		Fan		Outdoor Temperature (°F)			Efficiency		Refrigerant	Piping Connections (in.)			Power				Sound Power
				Total Cooling	Heating Cooling	Total Cooling	Heating Cooling	Airflow (CFM)	Quantity	Cooling DB	Cooling WB	Heating DB	Cooling IEER (SEER)	Heating COP (HSPF)		Liquid	LP Gas	HP Gas	Volts	Phase	Hz	MCA	
HP-1	ARUM384BTE5	HR_Multi V 5	1	384000	432000	357145	363062			97	62	3	19	3.4	R410A	7/8	1+5/8	1+3/8	208-230V	3Ph	60Hz	113.9	89
HP-2	ARUM192BTE5	HR_Multi V 5	1	192000	216000	177689	169445			97	62	3	25.9	3.75	R410A	5/8	1+1/8	1+1/8	208-230V	3Ph	60Hz	57.9	87

Multi V HR Boxes ①							
System	Mark	Model Number	Quantity	Power			
				Volts	Phase	Hz	RLA
HP-1	HR-1.1	PRHR042A	1	208 / 230V	1Ph	60Hz	0.2
HP-1	HR-1.2	PRHR042A	1	208 / 230V	1Ph	60Hz	0.2
HP-1	HR-1.3	PRHR042A	1	208 / 230V	1Ph	60Hz	0.2
HP-2	HR-1.4	PRHR042A	1	208 / 230V	1Ph	60Hz	0.2
HP-2	HR-1.5	PRHR022A	1	208 / 230V	1Ph	60Hz	0.1
HP-2	HR-2.1	PRHR032A	1	208 / 230V	1Ph	60Hz	0.15
HP-2	HR-2.2	PRHR032A	1	208 / 230V	1Ph	60Hz	0.15

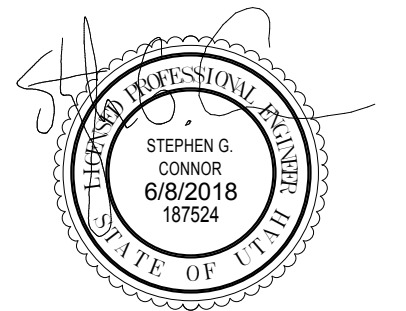
- ① PROVIDE ISOLATION VALVES FOR EACH PIPE CONNECTION.



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 DRAWN BY: CEA  
 DATE: 06.08.18

## MECHANICAL SCHEDULES

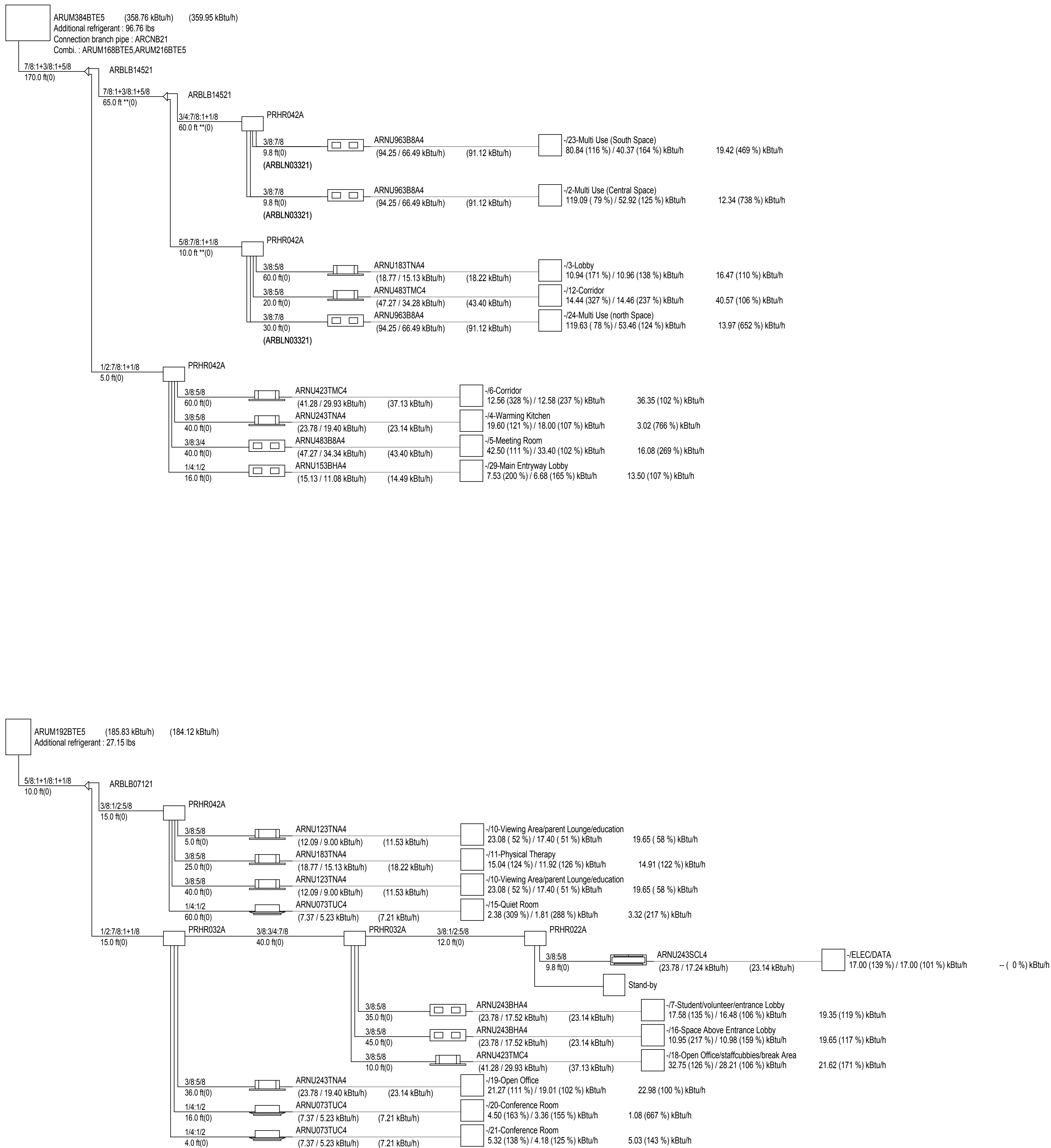
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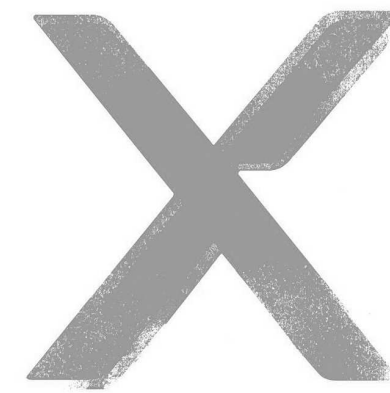


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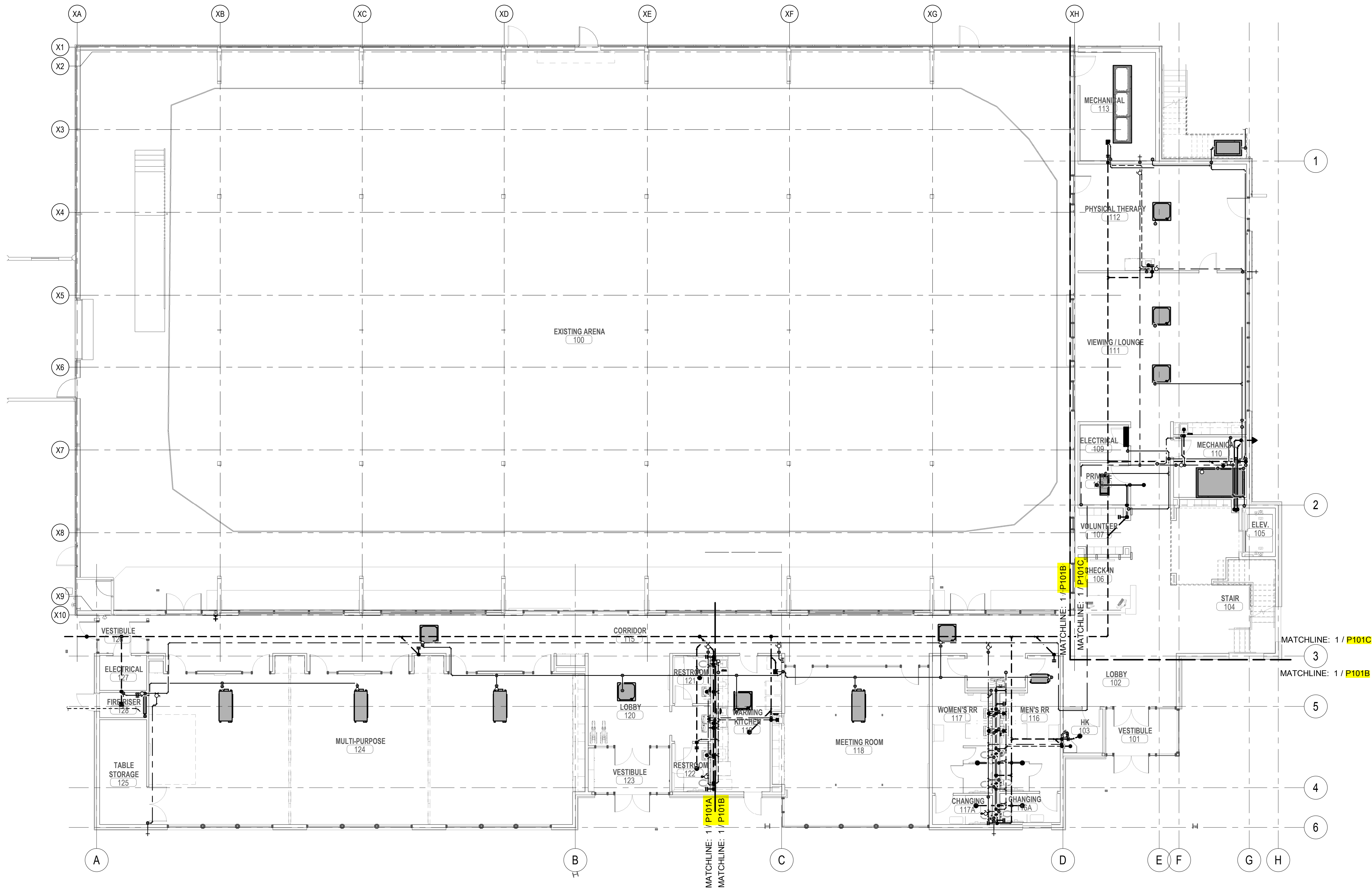
MECHANICAL  
SCHEMATICS

M701



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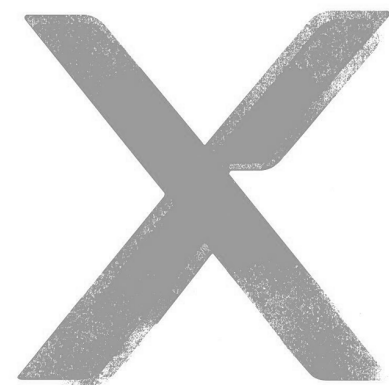
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1 LEVEL 1 OVERALL PLUMBING FLOOR PLAN  
SCALE: 1/8" = 1'-0"

## GENERAL NOTES

- COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES BEFORE STARTING ANY WORK.
- 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.
- PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
- WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
- PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
- FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00.
- COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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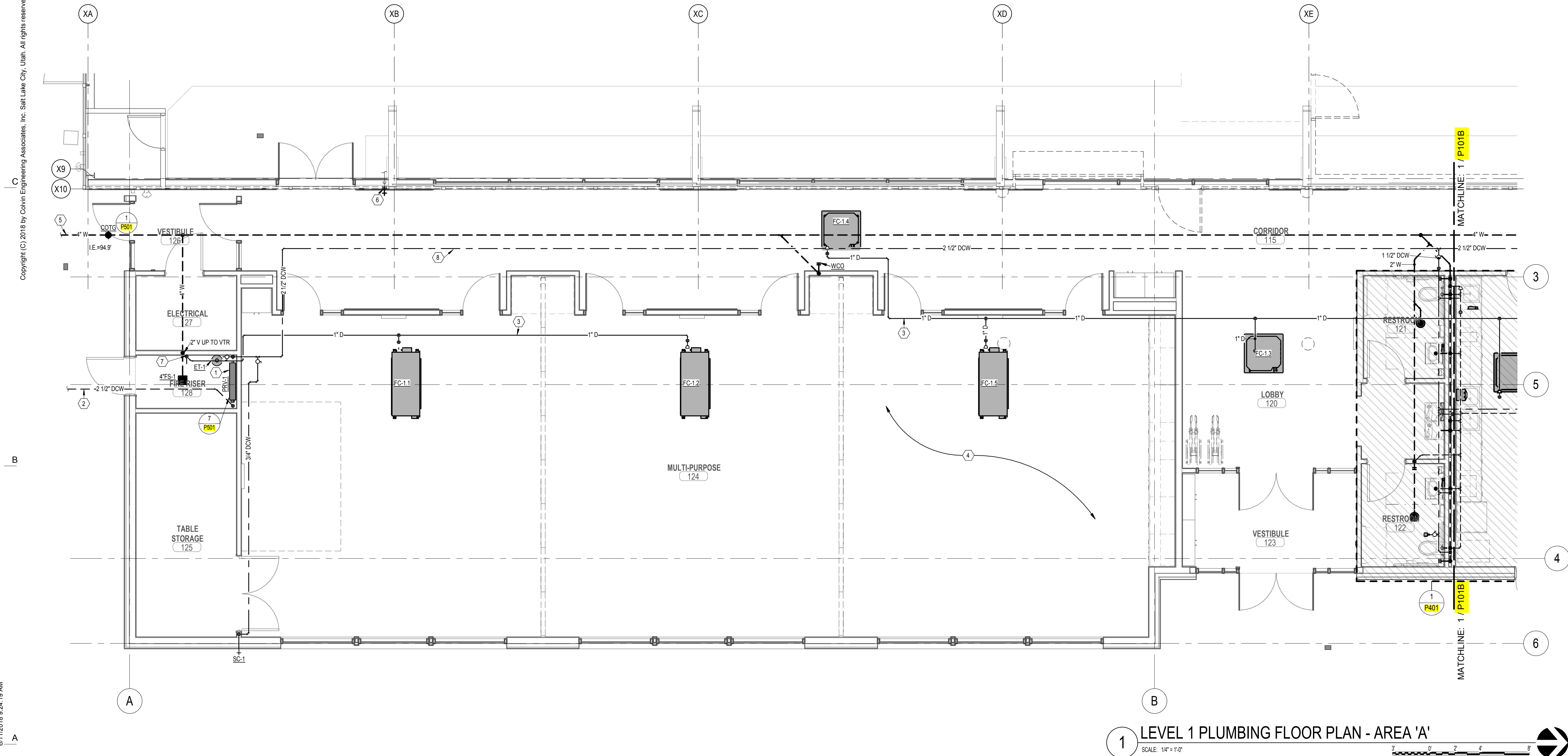
## LEVEL 1 OVER ALL PLUMBING FLOOR PLAN

P101



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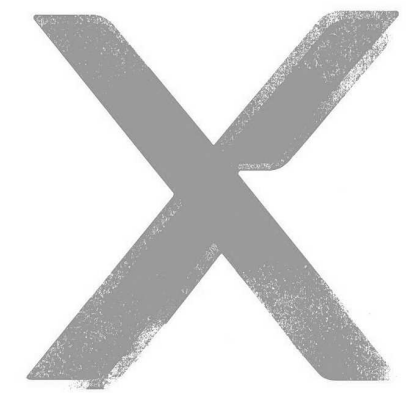
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1 LEVEL 1 PLUMBING FLOOR PLAN - AREA 'A'  
SCALE: 1/4" = 1'-0"

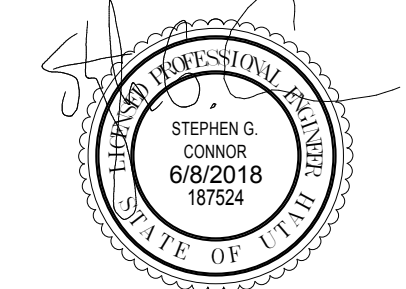
- KEYED NOTES**
- 1 REDUCED PRESSURE BACKFLOW PREVENTER (RPBP), COORDINATE INSTALLATION WITH FIRE RISER.
  - 2 DOMESTIC WATER FEED, SEE CIVIL DRAWINGS FOR CONTINUATION.
  - 3 ROUTE CONDENSATE DRAIN AS HIGH AS POSSIBLE. COORDINATE UFT ELEVATION WITH MECHANICAL EQUIPMENT CONDENSATE PUMP.
  - 4 COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
  - 5 BUILDING SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.
  - 6 REMOVE EXISTING EXTERIOR HOSE BIBS. CAP PIPE LINE AT INTERIOR OF BUILDING. PATCH AND REPAIR BUILDING TO MATCH EXISTING.
  - 7 DROP CONDENSATE DRAIN LINE DOWN IN WALL. TERMINATE DRAIN LINE AT FLOOR SINK. COORDINATE LOCATION OF PIPE WITH FLOOR SINK AND ICE MACHINE.
  - 8 ROUTE WATER LINE AS HIGH AS POSSIBLE AND TIGHT TO UNDERSIDE OF STRUCTURE.

- 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. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
  - C. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
  - D. ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
  - E. PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
  - F. PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
  - G. FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00.
  - H. COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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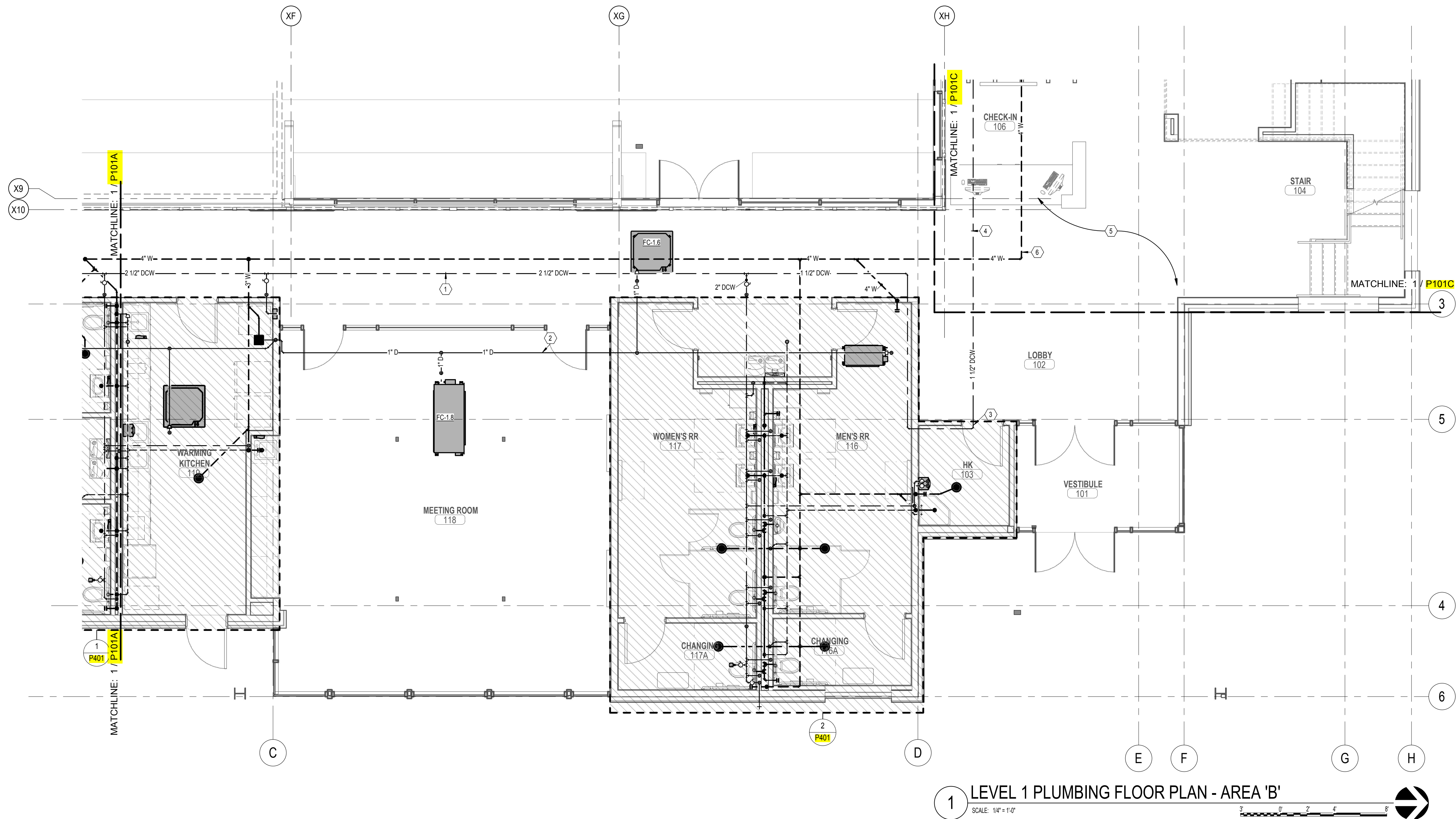
**LEVEL 1  
PLUMBING  
FLOOR PLAN -  
AREA 'A'**

**P101A**



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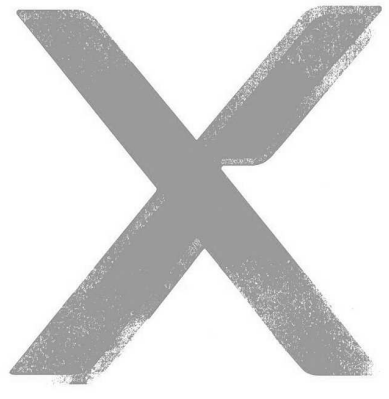


# KEYED NOTES

- 1 ROUTE WATER LINE AS HIGH AS POSSIBLE AND TIGHT TO UNDERSIDE OF STRUCTURE.
- 2 ROUTE CONDENSATE DRAIN AS HIGH AS POSSIBLE. COORDINATE LIFT ELEVATION WITH MECHANICAL EQUIPMENT CONDENSATE PUMP.
- 3 RISE DOWN LINE UP INTO CAVITY OF TRUSS SPACE.
- 4 ROUTE DOWN LINE OVER LOBBY SPACE AND WITHIN TRUSS SPACE. COORDINATE AND ROUTE LINE WITHIN THE SAME BAY AS THE REFRIGERANT PIPING. REFER TO MECHANICAL DRAWINGS.
- 5 COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
- 6 UNDERGROUND SANITARY SEWER PIPE (TYPICAL).

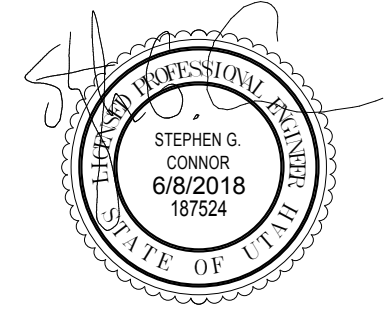
# GENERAL NOTES

- 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. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
- C. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- D. ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- E. PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
- F. PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
- G. FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00.
- H. COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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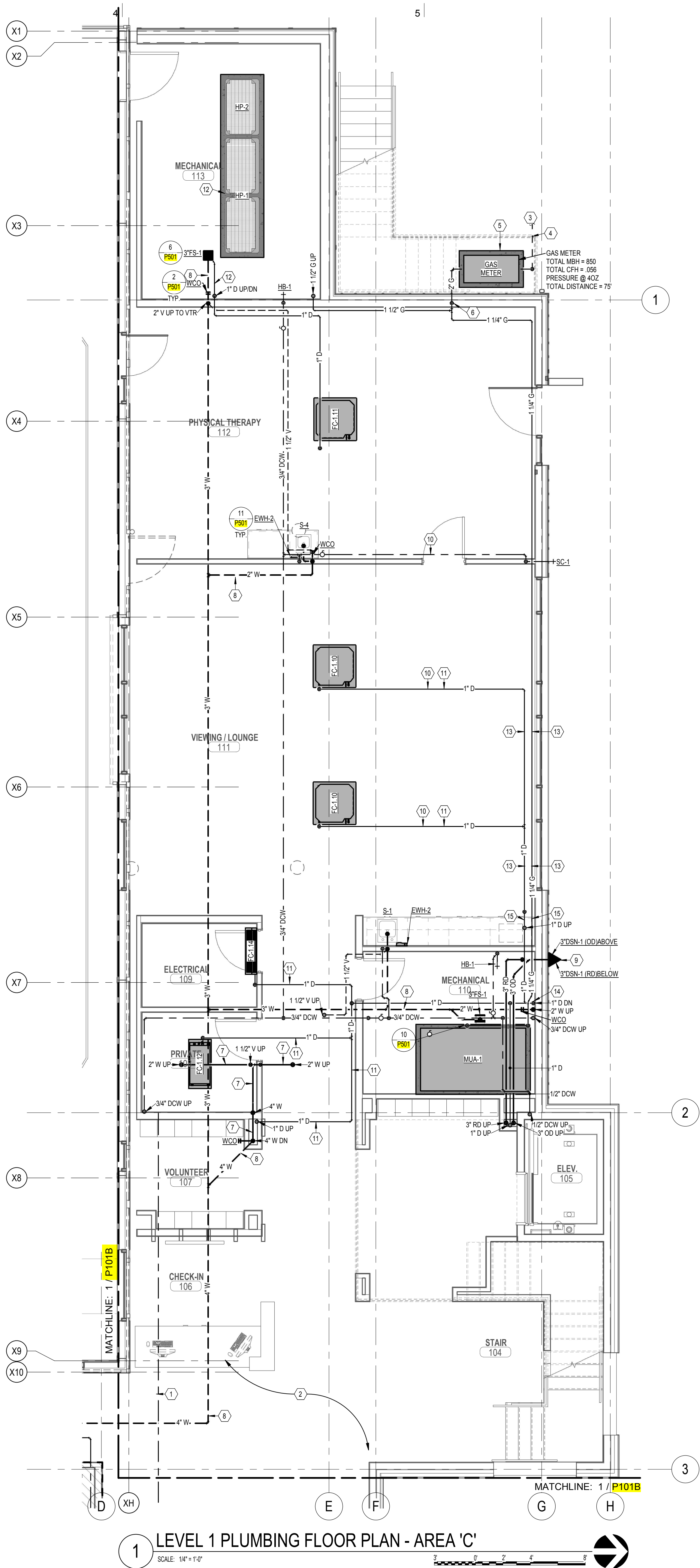
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# LEVEL 1 PLUMBING FLOOR PLAN - AREA 'B'

# P101B



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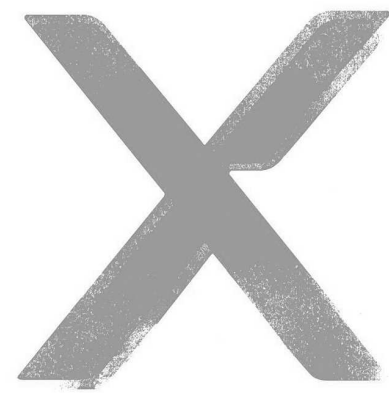


#### KEYED NOTES

- ROUTE DOW LINE OVER LOBBY SPACE AND WITHIN TRUSS SPACE. COORDINATE AND ROUTE LINE WITHIN THE SAME BAY AS THE REFRIGERANT PIPING. REFER TO MECHANICAL DRAWINGS.
- COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
- NATURAL GAS FEED. SEE CIVIL DRAWINGS FOR CONTINUATION. UNDERGROUND PIPE AT MINIMUM DEPTH OF 48" BELOW FINISH GRADE.
- PROVIDE 4" CONCRETE PAD FOR GAS METER. COORDINATE SIZE AND LOCATION WITH GAS COMPANY AND EQUIPMENT.
- ROUTE NATURAL GAS PIPE UP IN STUD WALL.
- OVERHEAD SANITARY SEWER PIPE SERVING RESTROOM ABOVE.
- UNDERGROUND SANITARY SEWER PIPE (TYPICAL).
- INSTALL ROOF DRAIN DOWNSPOUT NOZZLE (STDN-1) AT 18" ABOVE GRADE AND OVERFLOW DRAIN DOWNSPOUT NOZZLE (STDN-1) AS HIGH AS POSSIBLE AND BELOW SECOND FRAMING ABOVE ROOF DRAIN DOWNSPOUT NOZZLE. PROVIDE SPLASH BLOCK.
- ROUTE PIPE THROUGH OPEN WEB JOIST (TYPICAL).
- ROUTE CONDENSATE DRAIN AS HIGH AS POSSIBLE. COORDINATE LIFT ELEVATION WITH MECHANICAL EQUIPMENT CONDENSATE PUMP.
- ROUTE CONDENSATE DRAIN LINE ACROSS FLOOR AND TO FLOOR SINK. COORDINATE LOCATION TO MAINTAIN OPEN FLOOR SPACE AND ACCESS REQUIREMENTS OF MECHANICAL EQUIPMENT.
- ROUTE PIPE BETWEEN STRUCTURAL JOISTS.
- DROP AND SUPPORT CONDENSATE DRAIN LINE AGAINST WALL AND DOWN TO FLOOR. ROUTE DRAIN LINE ACROSS FLOOR AND TO FLOOR SINK. COORDINATE LOCATION TO MAINTAIN OPEN FLOOR SPACE AND ACCESS REQUIREMENTS OF MECHANICAL EQUIPMENT.
- ROUTE PIPE BELOW BEAM.

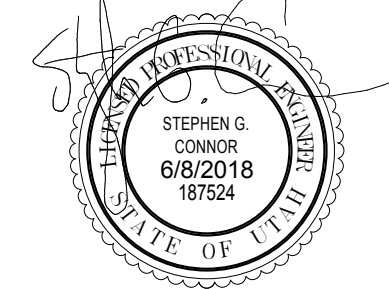
#### GENERAL NOTES

- COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES BEFORE STARTING ANY WORK.
- 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. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
- WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
- PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
- FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
- COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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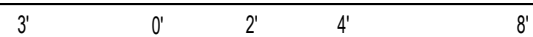
#### LEVEL 1 PLUMBING FLOOR PLAN - AREA 'C'

## P101C

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#### LEVEL 1 PLUMBING FLOOR PLAN - AREA 'C'

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

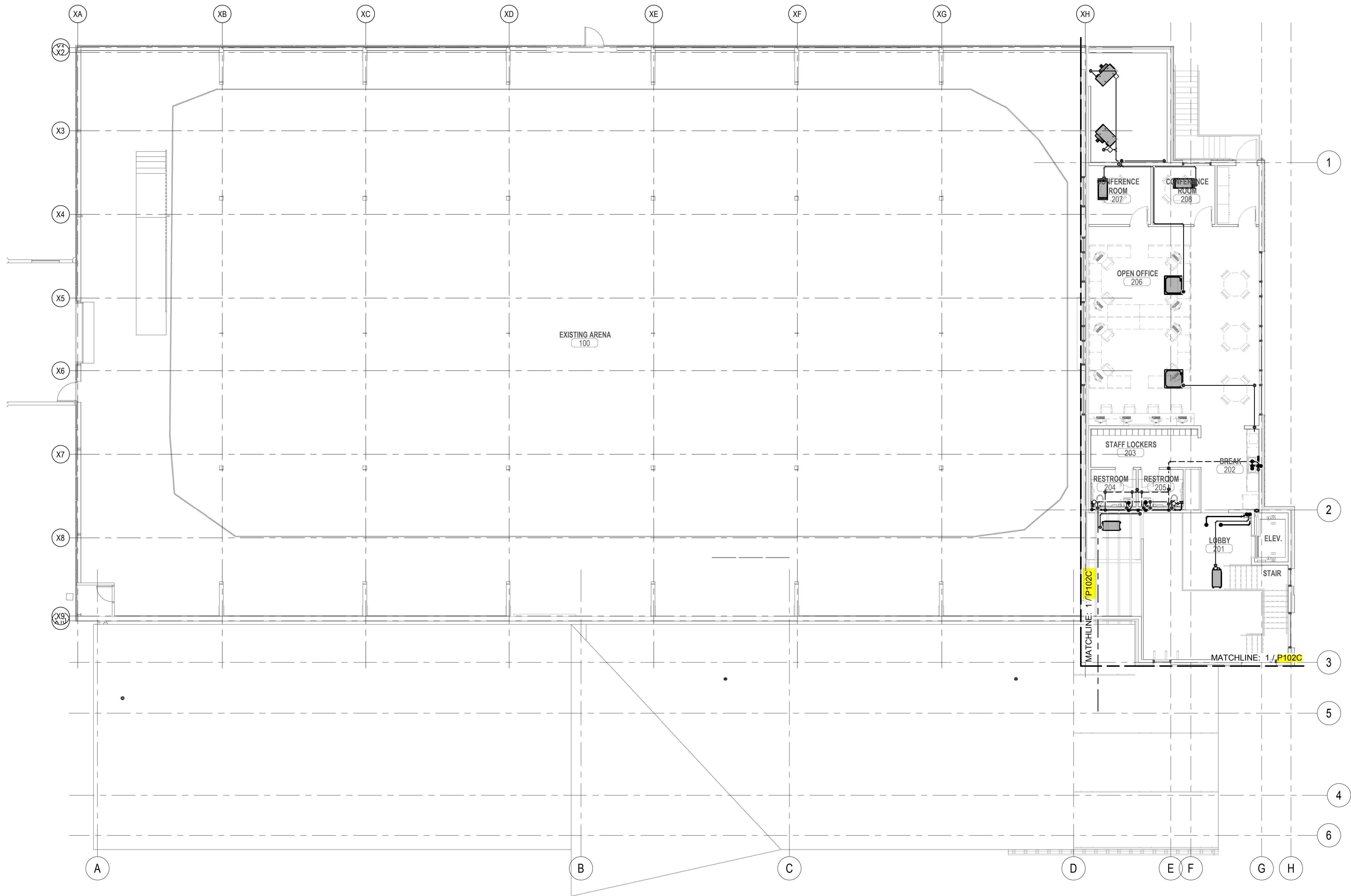


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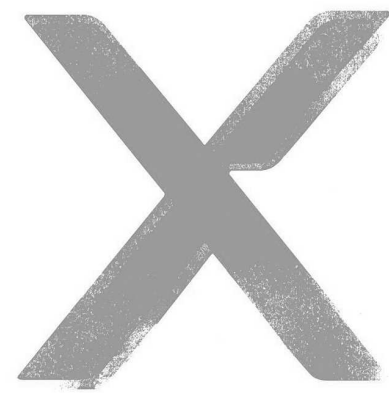
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1 LEVEL 2 OVERALL PLUMBING FLOOR PLAN  
SCALE: 1/8" = 1'-0"

## GENERAL NOTES

- COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES BEFORE STARTING ANY WORK.
- ALL SANITARY WASTE PIPING 2" AND SMALLER TO BE RUN AT 1/4" PER FOOT SLOPE. PIPE 3" AND LARGER RUN AT 1/8" PER FOOT SLOPE. ETC.
- PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
- WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
- PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
- FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00.
- COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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## LEVEL 2 OVERALL PLUMBING FLOOR PLAN

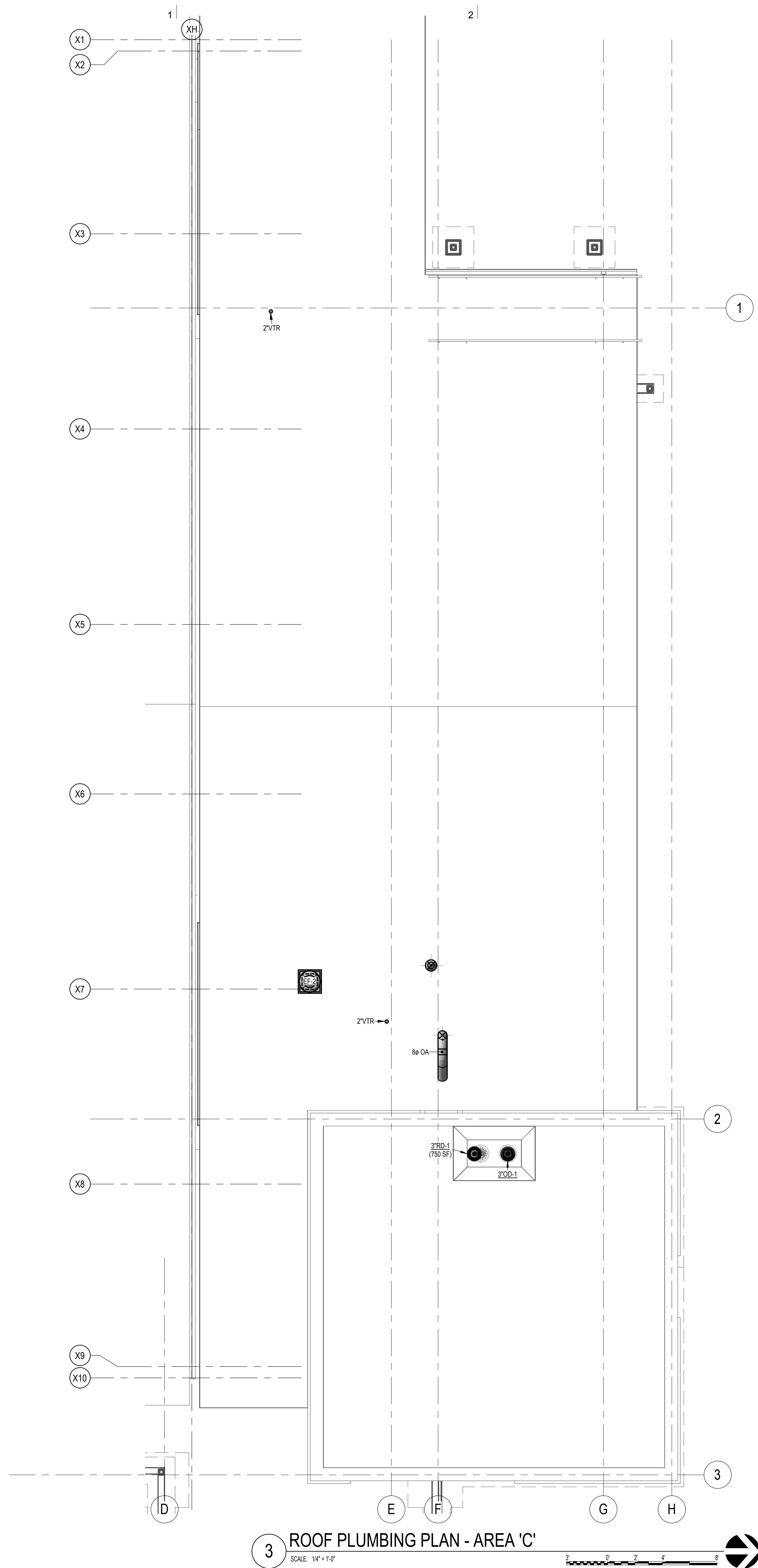
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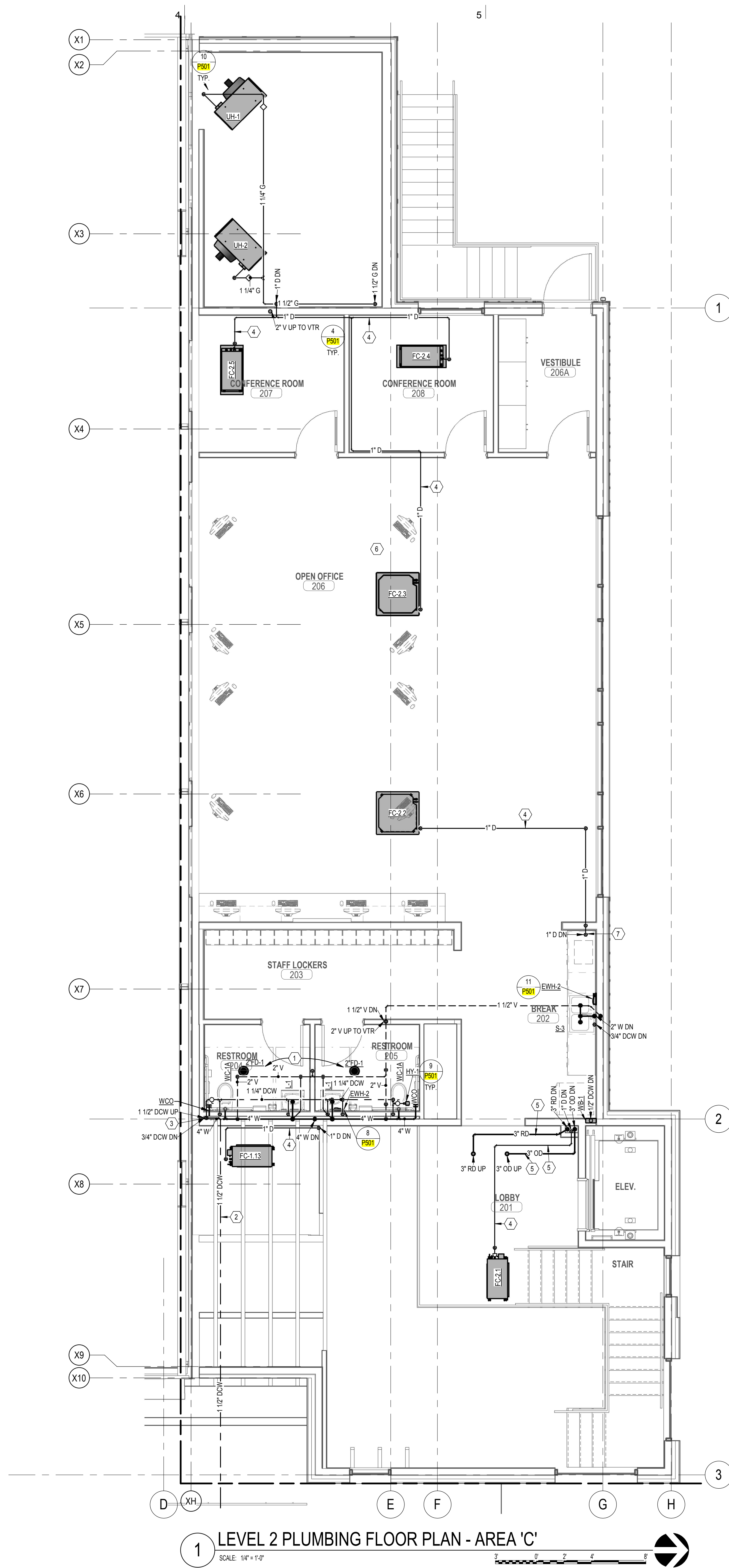


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3 ROOF PLUMBING PLAN - AREA 'C'  
SCALE: 1/4" = 1'-0"



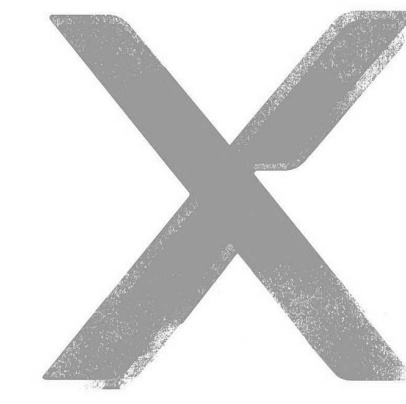
1 LEVEL 2 PLUMBING FLOOR PLAN - AREA 'C'  
SCALE: 1/4" = 1'-0"

#### KEYED NOTES

1. SANITARY SEWER FOR FLOOR DRAINS SHOW ON THE LEVEL BELOW.
2. ROUTE DOWN LINE OVER LOBBY SPACE AND WITHIN TRUSS SPACE. COORDINATE AND ROUTE LINE WITHIN THE SAME BAY AS THE REFRIGERANT PIPING. REFER TO MECHANICAL DRAWINGS.
3. RISE DOWN LINE TO LEVEL 2 CEILING CAVITY AND DROP TO LEVEL 1. CEILING CAVITY FROM LINE ROUTED WITHIN TRUSS BAY OVER LOBBY.
4. ROUTE CONDENSATE DRAIN AS HIGH AS POSSIBLE. COORDINATE LIFT ELEVATION WITH MECHANICAL EQUIPMENT CONDENSATE PUMP.
5. ROUTE PIPE THROUGH OPEN WEB JOIST (TYPICAL).
6. COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
7. ROUTE CONDENSATE DRAIN PIPE IN TOE-KICK SPACE OF CABINET TO AVOID BEAM BELOW.

#### GENERAL NOTES

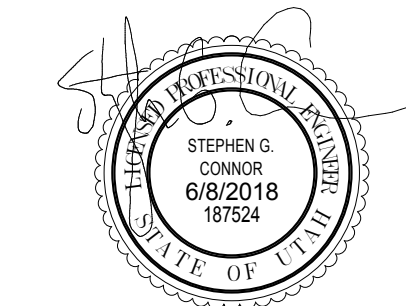
- A. COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES BEFORE STARTING ANY WORK.
- B. ALL SANITARY WASTE PIPING 2 1/2" AND SMALLER TO BE RUN AT 1/4" PER FOOT SLOPE. PIPE 3" AND LARGER RUN AT 1/8" PER FOOT SLOPE. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, SHUTOFF VALVES, ETC.
- C. WHERE INDIVIDUAL OUTLET PIPING SIZE IS NOT SHOWN, SEE PLUMBING SCHEDULE SIZE.
- D. ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- E. PROVIDE PROSET TRAP GUARD FOR ALL FLOOR SINKS AND FLOOR DRAINS.
- F. PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
- G. FINISH FLOOR ELEVATION TO REFERENCE ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00.
- H. COORDINATE ALL PENETRATIONS AT SHEAR WALLS. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.



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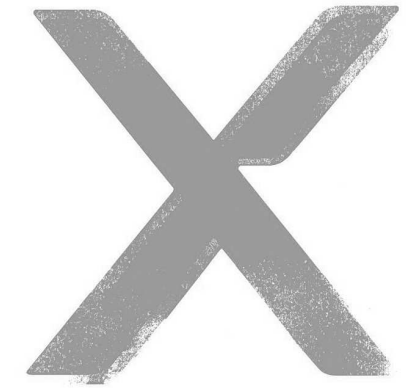
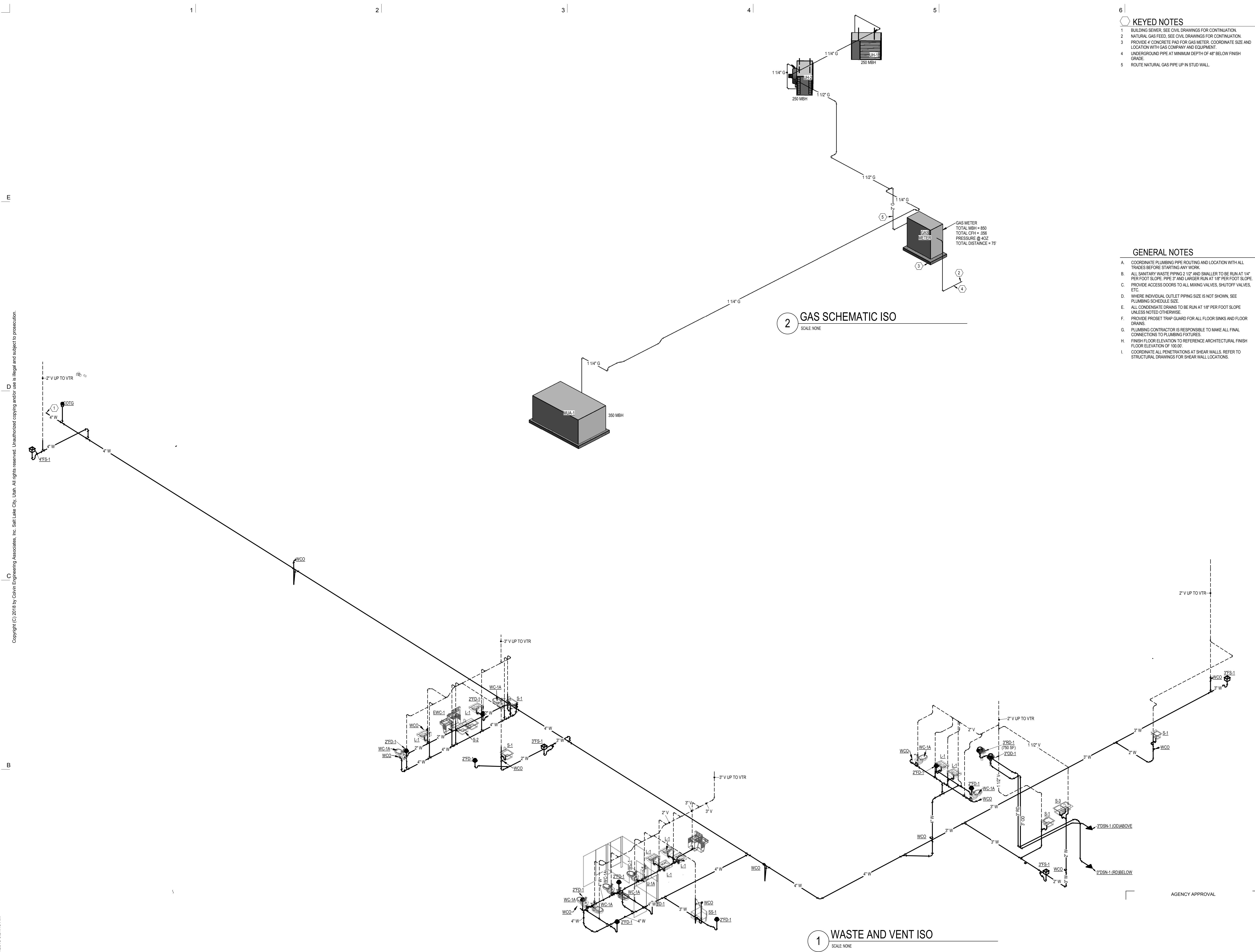
#### LEVEL 2 PLUMBING FLOOR PLAN & ROOF - AREA 'C'

## P102C



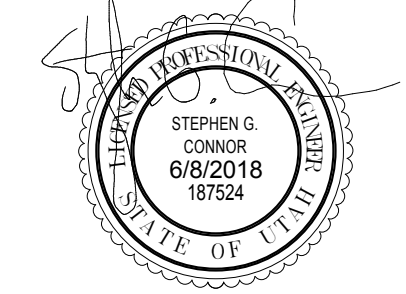
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**WASTE & VENT SCHEMATIC AND GAS SCHEMATIC**

**P201**

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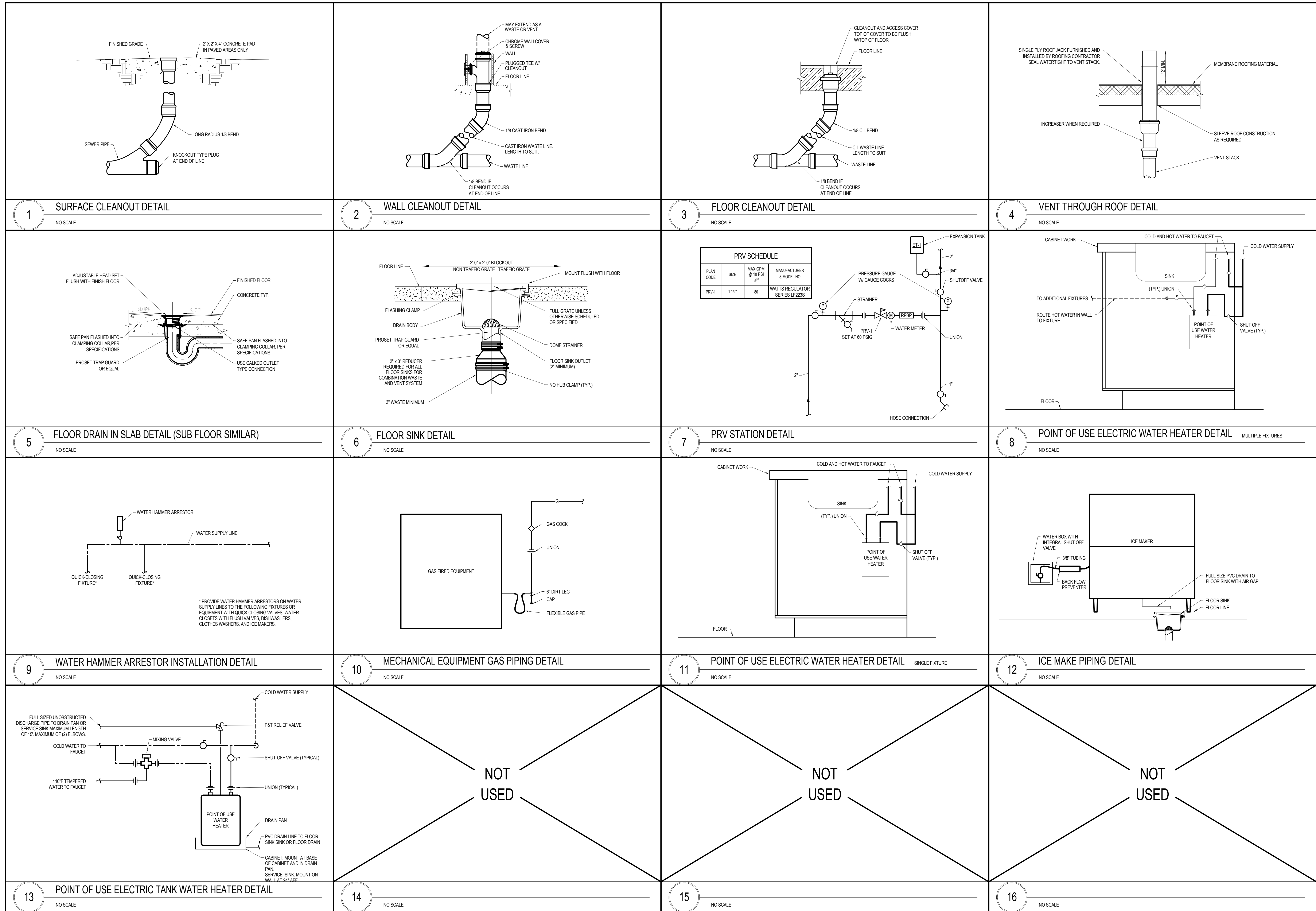




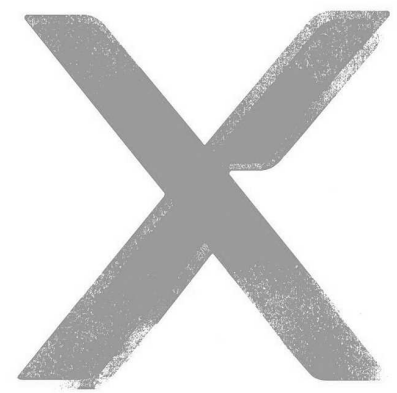


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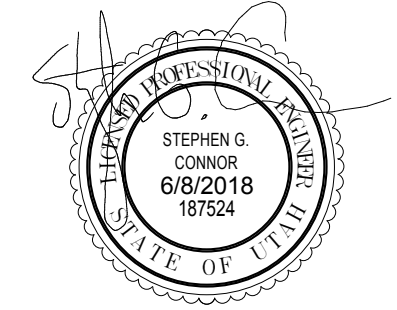
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# Date Revision

**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 17179  
CHECKED BY: BB  
DRAWN BY: CEA  
DATE: 06.08.18

**PLUMBING DETAILS**

**P501**

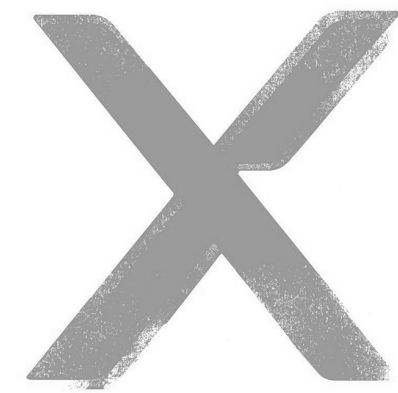


ELECTRIC WATER HEATER SCHEDULE (EWH)													
PLAN CODE	QUANTITY	CAP (GAL)	RECOVER @ ELEV (GPH)	INPUT (KW)	TEMP RISE (°F)	MAX DIMENSIONS			ELECTRICAL		MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
						LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	VOLTPH	AMPS			
EWH-1	2	NA	NA	4.2	36F @ 0.8 GPM	7	10	3	208/1	20	6	CHRONOMITE M-30L/238-MM	FACTORY PRESET TO 104 °F
EWH-2	8	NA	NA	8.4	71F @ 0.8 GPM	7	10	3	208/1	40	6	CHRONOMITE M-40L/238-MM	FACTORY PRESET TO 104 °F
EWH-3	2	6	NA	1.5	NA	16	16	23	208/1	12	26	CHRONOMITE CMT-6.0	PROVIDE WITH CMT-ST70 (105 °F) TEMPERING VALVE

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	DOMESTIC	110°F	NA	2.1	0.9	55	10	11	21	B & G PT-A-5	-

PLUMBING FIXTURE SCHEDULE							
PLAN CODE	DISCRIPTION	ROUGH-IN SIZE					REMARKS
		C.W.	H.W.	TEMPERED	WASTE	VENT	
DSN-1	DOWNSPOUT NOZZLE	-	-	-	SEE PLANS	-	JAY R. SMITH FIGURE 1770 DOWNSPOUT NOZZLE WITH CAST BRONZE BODY AND FLANGE.
EW-1A	BI LEVEL WALL MOUNT ELECTRIC WATER COOLER, ADA COMPLIANT, INCLUDE BOTTLE FILLER	3/8"	-	-	1-1/2"	1-1/2"	ELKAY #LZSTLWMSLK (ADA) STAINLESS STEEL, 8.0 GPM, F.L.A. = 6, 115 V/1 PH/60 HZ, BOTTLE FILLER #LWYSR
FCO	FLOOR CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4020, 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. 2005Y-NB-U, DUCO 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 5075, INTEGRAL VACUUM BREAKER.
HY-1	HAMMER ARRESTOR	-	-	-	-	-	HAMMER ARRESTER, JR SMITH FIGURE 5005 FIXTURE RATING 1-11, FIGURE 5010 FIXTURE RATING OF 12-30, FIGURE 5020 FIXTURE RATING 33-60 & FIGURE 5030 FIXTURE RATING 61-113.
L-1	RECTANGULAR WALL MOUNT LAVATORY, BATTERY POWERED SENSOR TYPE FAUCET, 0.5 GPM FLOW, WITH MIXING VALVE	1/2"	1/2"	-	1-1/2"	1-1/2"	KOHLER "KINGSSTON" WALL MOUNT K-2007 FAUCET, KOHLER K-7915 DRAIN, KOHLER K-8620 P-TRAP, KOHLER K-8000
RD-1	ROOF DRAIN	-	-	-	SEE PLANS	-	JAY R. SMITH FIGURE 1010Y CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.
OD-1	ROOF DRAIN OVERFLOW	-	-	-	SEE PLANS	-	JAY R. SMITH FIGURE 1080Y CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, 2" HIGH WATER COLLAR, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.
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 US 1616-A, 18 GAUGE, UNDER COUNTER MOUNTED, FAUCET, CHICAGO FAUCETS 786-ES5VPCABCP, 5-3/8" SPOUT, 8" FIXED CENTERS, 1.0 GPM LAMINAR OUTLET AND PLAN END SPOUT RING, 4" WRIST BLADE, STRAINER, JUST 1-35 STAINLESS STEEL CLIP STRAINER.
S-2	TRIPLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, UNDER COUNTER MOUNT SINK, L-TYPE SWING SPOUT WITH WRIST BLADES, GARBAGE DISPOSER	1/2"	1/2"	-	1-1/2"	1-1/2"	BOWL, JUST UTE-2043-A, 18 GAUGE, UNDER COUNTER MOUNTED, FAUCET, CHICAGO FAUCETS 200-RES-517ABCP, 1.5 GPM AERATOR OUTLET, 8" FIXED CENTERS, SIDE SPRAY, 4" WRIST BLADE STRAINER (2), JUST 1-35 STAINLESS STEEL CLIP STRAINERS, GARBAGE DISPOSER, BADGER IN SINKERATOR 50P, 3/4 HP, 120V/1PH, 9.5 AMP.
S-3	DOUBLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, UNDER COUNTER MOUNT SINK, GOOSENECK RIGID SWING SPOUT WITH WRIST BLADES, GARBAGE DISPOSER	1/2"	1/2"	-	1-1/2"	1-1/2"	BOWL, JUST UD-1832-A, 18 GAUGE, UNDER COUNTER MOUNTED, FAUCET, CHICAGO FAUCETS 786-GNBAESVPCABCP, 8" SPOUT, 8" FIXED CENTER, 1.0 GPM LAMINAR OUTLET AND PLAN END SPOUT RING, 4" WRIST BLADE, STRAINER, JUST 1-35 STAINLESS STEEL CLIP STRAINER, GARBAGE DISPOSER, BADGER IN SINKERATOR 5AP, 3/4 HP, 120V/1PH, 9.5 AMP.
S-4	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 US-1212-A, 18 GAUGE, UNDER COUNTER MOUNTED, FAUCET, CHICAGO FAUCETS 786-ES5VPCABCP, 5-3/8" SPOUT, 8" FIXED CENTER, 1.0 GPM LAMINAR OUTLET AND PLAN END SPOUT RING, 4" WRIST BLADE, STRAINER, JUST 1-35 STAINLESS STEEL CLIP STRAINER.
SC-1	SILCOCK (OUTDOOR FREEZE PROOF)	3/4"	-	-	-	-	JAY R. SMITH SERIES 5609GT, 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-383606-NC FAUCET, KOHLER K-8607
U-1A	URINAL, ADA COMPLIANT, WALL MOUNT, BATTERY POWERED SENSOR TYPE FLUSH VALVE, VITREOUS CHINA, 125 GPF	1"	-	-	2"	2"	URINAL, KOHLER BARDON K-4991-ET FLUSH VALVE, KOHLER K-10949-SV
WB-1	WATER BOX	1/2"	-	-	-	-	QATEY 38586, PROVIDE WITH BACK FLOW PREVENTOR
WC-1	WATER CLOSET, WALL MOUNT, BATTERY POWERED SENSOR TYPE FLUSH VALVE, SIPHON JET, VITREOUS CHINA, 1.28 GPF	1"	-	-	4"	2"	KOHLER "HIGHCLIFF" BOWL K-4325 SEAT, KOHLER K-4731 COMMERCIAL HEAVY-DUTY FLUSH VALVE, KOHLER K10895-SV COLOR: WHITE
WC-1A	WATER CLOSET, ADA COMPLIANT, WALL MOUNT, BATTERY POWERED SENSOR TYPE FLUSH VALVE, SIPHON JET, VITREOUS CHINA, 1.28 GPF	1"	-	-	4"	2"	KOHLER "HIGHCLIFF" BOWL K-4325 SEAT, KOHLER K-4731 COMMERCIAL HEAVY-DUTY FLUSH VALVE, KOHLER K10895-SV COLOR: WHITE
WCO	WALL CLEANOUT	-	-	-	SEE PLANS	-	J.R. SMITH MANUFACTURING COMPANY SERIES 4530, CAST IRON CLEANOUT TEE, ABS PLUG, STAINLESS STEEL COVER WITH VANDAL PROOF SECURITY SCREWS, OR EQUAL.

AGENCY APPROVAL



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# Date Revision

CONSTRUCTION  
DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: BB  
DRAWN BY: CEA  
DATE: 06.08.18

PLUMBING  
SCHEDULES

P601



## ELECTRICAL SITE UTILITY COORDINATION

ELECTRICAL SITE UTILITY INFORMATION HAS BEEN COORDINATED WITH THE FOLLOWING UTILITY COMPANY REPRESENTATIVES. VERIFY ALL LOCATIONS, DIMENSIONS, CLEARANCES, REGULATIONS, ETC., PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY REVISIONS REQUIRED.

POWER COMPANY	ROCKY MOUNTAIN POWER
CONTACT	BRYAN MILLARD
PHONE NO.	(435)655-7806
EMAIL	BRYAN-MILLWARD@ROCKYMOUNTAINPOWER.NET
WORK ORDER NO.	6495907
TELEPHONE COMPANY	X
CONTACT	X
PHONE NO.	X
EMAIL	X
CABLE TV COMPANY	X
CONTACT	X
PHONE NO.	X
EMAIL	X

## GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC., WHERE APPLICABLE. MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE		
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #6 AWG	
>380	NOTE B	NOTE B	

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.
12. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.

## EQUIPMENT SCHEDULE

UNIT	#	DESCRIPTION	LOAD			VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES			EQUIP. QNO.	TYPE	AMPS	STARTER	DISCONNECT	OTHER	REMARKS
			HP	FLA	MCA					SETS	QTY	SIZE							
EF	1	EXHAUST FAN	0.10			120 V	1	4.4 A	3/4"	1	2	12	12	CB	15 A		2A		
EF	2	EXHAUST FAN	0.05			120 V	1	4.4 A	3/4"	1	2	12	12	CB	15 A		4A		
EH	1	ELECTRIC HEATER	0 A	0 A	4000 VA	208 V	1	19.2 A	3/4"	1	2	10	10	CB	25 A		2A		
EH	1	ELECTRIC HEATER	0 A	0 A	4000 VA	208 V	1	19.2 A	3/4"	1	2	10	10	CB	25 A		2A		
EH	1	ELECTRIC HEATER	0 A	0 A	4000 VA	208 V	1	19.2 A	3/4"	1	2	10	10	CB	25 A		2A		
EH	2	FAN COIL	0 A	87 A	0 VA	208 V	3	69.6 A	1"	1	3	2	6	CB	110 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
EH	3	ELECTRIC HEATER	0 A	8 A	0 VA	120 V	1	6.6 A	3/4"	1	2	12	12	CB	20 A		4A		
FC	1.1	FAN COIL	0 A	5 A	0 VA	208 V	1	4.2 A	3/4"	1	2	12	12	CB	20 A		2A		
FC	1.2	FAN COIL	0 A	5 A	0 VA	208 V	1	4.2 A	3/4"	1	2	12	12	CB	20 A		2A		
FC	1.3	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.4	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.5	FAN COIL	0 A	5 A	0 VA	208 V	1	4.2 A	3/4"	1	2	12	12	CB	20 A		2A		
FC	1.6	FAN COIL	0 A	1 A	0 VA	208 V	1	1.0 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.7	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.8	FAN COIL	0 A	5 A	0 VA	208 V	1	4.2 A	3/4"	1	2	12	12	CB	20 A		2A		
FC	1.9	FAN COIL	0 A	1 A	0 VA	208 V	1	0.8 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.10	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.11	HR BOXES	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.11	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.12	FAN COIL	0 A	0 A	0 VA	208 V	1	0.1 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	1.14	FAN COIL	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	2.2	FAN COIL	0 A	1 A	0 VA	208 V	1	1.0 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	2.3	FAN COIL	0 A	1 A	0 VA	208 V	1	0.4 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	2.4	FAN COIL	0 A	0 A	0 VA	208 V	1	0.1 A	3/4"	1	2	12	12	CB	15 A		2A		
FC	2.5	FAN COIL	0 A	0 A	0 VA	208 V	1	0.1 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.1	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.1	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.2	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.3	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.5	HR BOXES	0 A	0 A	0 VA	208 V	1	0.1 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	1.5	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	2.1	HR BOXES	0 A	0 A	0 VA	208 V	1	0.2 A	3/4"	1	2	12	12	CB	15 A		2A		
HR	2.2	HR BOXES	0 A	0 A	0 VA	208 V	1	0.1 A	3/4"	1	2	12	12	CB	15 A		2A		
MUA	1	MAKE UP AIR UNIT SCHEDULE	2.87			208 V	3	10.6 A	3/4"	1	3	12	12	CB	20 A				
UH	1	UNIT HEATER	0.33			120 V	1	9.8 A	3/4"	1	2	12	12	CB	20 A		2A		
UH	1	UNIT HEATER	0.33			120 V	1	9.8 A	3/4"	1	2	12	12	CB	20 A		2A		

## NOTES:

- NON-FUSED DISCONNECT SWITCH
  - FUSED DISCONNECT SWITCH
  - BREAKER IN ENCLOSURE
  - MANUAL STARTER WITH THERMAL OVERLOAD
  - MAGNETIC STARTER
  - MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
  - MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
  - MAGNETIC STARTER/BREAKER COMBINATION
  - VARIABLE FREQUENCY DRIVE
  - REDUCED VOLTAGE STARTER
  - DIRECT CONNECTION
  - RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
  - TWO-SPEED STARTER, COORDINATE WMOTOR TYPE
  - 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.

## ELECTRICAL SYMBOL SCHEDULE

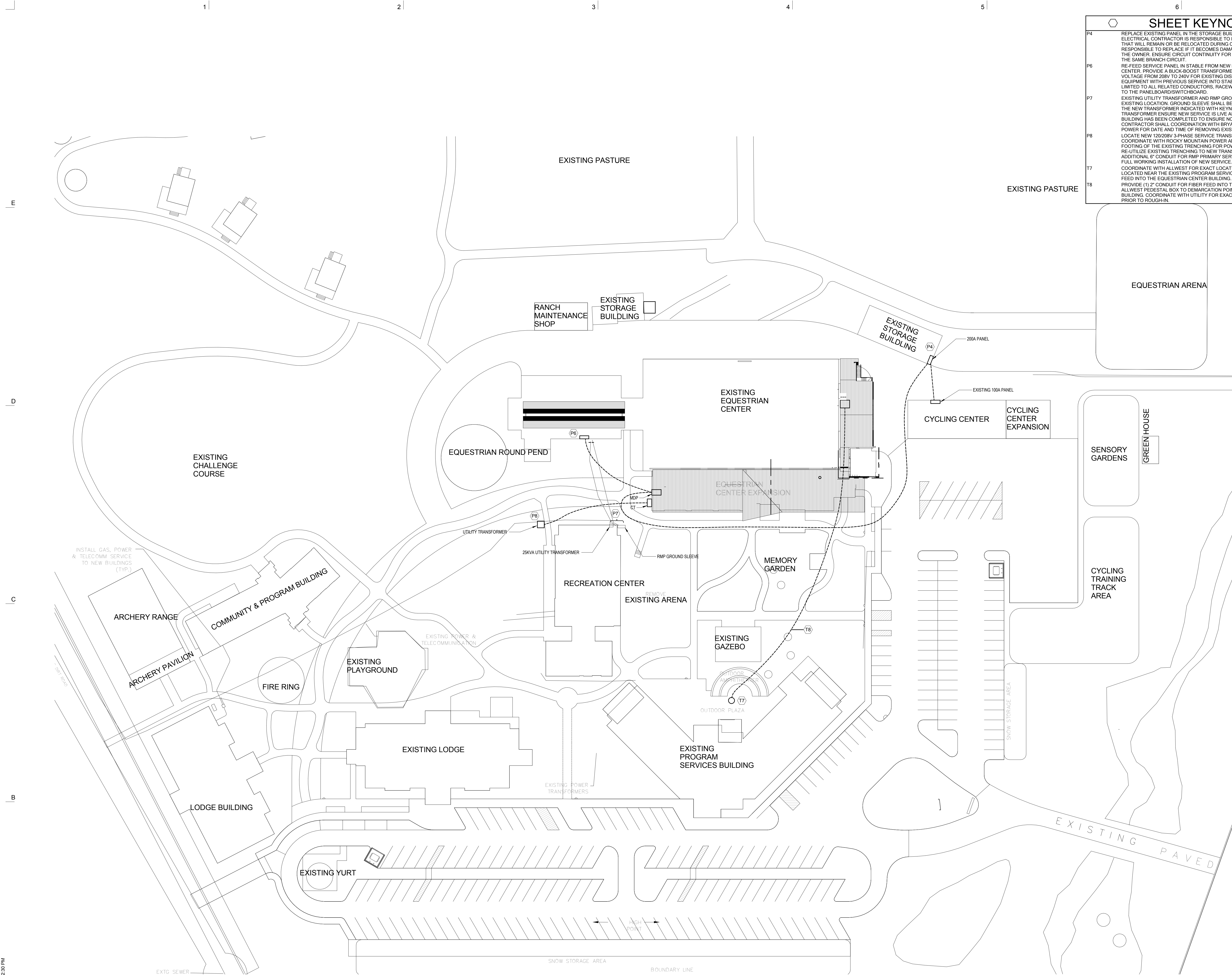
- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
- NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISH FLOOR.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
- COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT DENOTES NEMA CONFIGURATION.
- HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
- COORDINATE WITH DOOR HARDWARE SUPPLIER.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS				MOUNTING HEIGHT				NOTES			
SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES
	ONE CIRCUIT, HOME RUN TO PANEL			CLOCK OUTLET	+7'-6"		CLOCK OUTLET	+7'-6"		CLOCK OUTLET	+7'-6"
	2 CIRCUIT, HOME RUN TO PANEL			FLOOR BOX - SEE SCHEDULE	FLOOR		FLOOR BOX - SEE SCHEDULE	FLOOR		FLOOR BOX - SEE SCHEDULE	SEE DIAGRAM, SPEC.
	3 CIRCUIT, HOME RUN TO PANEL			POKE THRU - SEE SCHEDULE	FLOOR		POKE THRU - SEE SCHEDULE	FLOOR		POKE THRU - SEE SCHEDULE	SEE DIAGRAM, SPEC.
	CONDUIT RUN CONCEALED IN WALL OR CEILING			FLIP-TOP BOX			FLIP-TOP BOX			FLIP-TOP BOX	9
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			JUNCTION BOX (F" IN FLOOR)	AS NOTED		JUNCTION BOX (F" IN FLOOR)	AS NOTED		JUNCTION BOX (F" IN FLOOR)	AS NOTED
	CONDUIT UP			MOTOR OUTLET	TO SUIT EQUIP.		MOTOR OUTLET	TO SUIT EQUIP.		MOTOR OUTLET	TO SUIT EQUIP.
	CONDUIT DOWN			PUSHBUTTON	+4'-0"		PUSHBUTTON	+4'-0"		PUSHBUTTON	6
	CONDUIT STUB LOCATION	CAP CONDUIT		NON-FUSED DISCONNECT SWITCH	+5'-0"		NON-FUSED DISCONNECT SWITCH	+5'-0"		NON-FUSED DISCONNECT SWITCH	+5'-0"
	CONDUIT/CIRCUIT CONTINUATION			FUSED DISCONNECT SWITCH	+5'-0"		FUSED DISCONNECT SWITCH	+5'-0"		FUSED DISCONNECT SWITCH	5
	CABLE TRAY	AS NOTED		MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"		MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"		MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	2
	CEILING LIGHT FIXTURE	CEILING 1.		MAGNETIC STARTER	+5'-0"		MAGNETIC STARTER	+5'-0"		MAGNETIC STARTER	7
	WALL LIGHT FIXTURE	AS NOTED 1.		MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"		MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"		MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"
	RECESSED DOWNLIGHT FIXTURE	CEILING 1.		VARIABLE FREQUENCY DRIVE	+6'-6"		VARIABLE FREQUENCY DRIVE	+6'-6"		VARIABLE FREQUENCY DRIVE	+6'-6"
	RECESSED WALLWASH DOWNLIGHT FIXTURE	CEILING 1.		PANEL BOARD	TOP AT +6'-0"		PANEL BOARD	TOP AT +6'-0"		PANEL BOARD	TOP AT +6'-0"
	LIGHT FIXTURE	AS NOTED 1		MAIN DISTRIBUTION PANEL			MAIN DISTRIBUTION PANEL			MAIN DISTRIBUTION PANEL	
	EGRESS LIGHT FIXTURE	AS NOTED		TELEPHONE TERMINAL BOARD			TELEPHONE TERMINAL BOARD			TELEPHONE TERMINAL BOARD	
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE SEE DIAGRAM		GROUND BUS BAR			GROUND BUS BAR			GROUND BUS BAR	
	FLOOD OR TRACK FIXTURE	AS NOTED		EQUIPMENT CABINET/RACK			EQUIPMENT CABINET/RACK			EQUIPMENT CABINET/RACK	CIRCUIT TO 120V.
	CEILING/WALL MOUNTED EXIT LIGHT	CEILING/AS NOTED 1.3.8.		BELL	+7'-6"		BELL	+7'-6"		BELL	+7'-6"
	SINGLE POLE SWITCH	+4'-0"		CHIME	+7'-6"		CHIME	+7'-6"		CHIME	+7'-6"
	THREE-WAY SWITCH	+4'-0"		FIRE ALARM MANUAL STATION	+4'-0"		FIRE ALARM MANUAL STATION	+4'-0"		FIRE ALARM MANUAL STATION	6
	FOUR-WAY SWITCH	+4'-0"		FIRE ALARM SIGNAL HORN/STROBE	+8'-0"		FIRE ALARM SIGNAL HORN/STROBE	+8'-0"		FIRE ALARM SIGNAL HORN/STROBE	6
	KEY OPERATED SWITCH	+4'-0"		CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL HORN/STROBE	CEILING
	SWITCH WITH PILOT LIGHT	+4'-0"		CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+8'-0"
	VARIABLE INTENSITY SWITCH	+4'-0"		FIRE ALARM SIGNAL SPEAKER/STROBE	+8'-0"		FIRE ALARM SIGNAL SPEAKER/STROBE	+8'-0"		FIRE ALARM SIGNAL SPEAKER/STROBE	6
	TIMER SWITCH	+4'-0"		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	CEILING
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	6
	LOW VOLTAGE WALL STATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE) SEE DIAGRAM	CEILING/AS NOTED 6. SEE DIAGRAM SPEC.		FIRE ALARM STROBE	+8'-0"		FIRE ALARM STROBE	+8'-0"		FIRE ALARM STROBE	6
	CEILING/WALL MOUNTED OCCUPANCY SENSOR SUBSCRIPT ANALOG, D = DIGITAL	CEILING/AS NOTED 6.		CONCEALED FIRE ALARM SIGNAL STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL STROBE	CEILING		CONCEALED FIRE ALARM SIGNAL STROBE	CEILING
	POWER PACK	CEILING SEE DIAGRAM, SPEC.		CONCEALED FIRE ALARM SIGNAL STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL STROBE WALL	+8'-0"		CONCEALED FIRE ALARM SIGNAL STROBE WALL	6
	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	CEILING SEE DIAGRAM, SPEC.		FIRE ALARM SPEAKER ONLY	+8'-0"		FIRE ALARM SPEAKER ONLY	+8'-0"		FIRE ALARM SPEAKER ONLY	6
	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING SEE DIAGRAM, SPEC.		FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	CEILING/+8'-0"		FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	CEILING/+8'-0"		FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	MOUNT AS PER MFR.
	RECEPTACLE SWITCH PACK	CEILING		ASPIRATING SMOKE DETECTION SYSTEM	CEILING		ASPIRATING SMOKE DETECTION SYSTEM	CEILING		ASPIRATING SMOKE DETECTION SYSTEM	MOUNT AS PER MFR.
	AUTOMATIC RELAY PACK	CEILING SEE DIAGRAM, SPEC.		SMOKE DETECTOR	CEILING		SMOKE DETECTOR	CEILING		SMOKE DETECTOR	CEILING
	LOW VOLTAGE TRANSFORMER			SMOKE/CARBON MONOXIDE DETECTOR	CEILING		SMOKE/CARBON MONOXIDE DETECTOR	CEILING		SMOKE/CARBON MONOXIDE DETECTOR	CEILING
	PHOTO-ELECTRIC CONTROL	AS NOTED		CARBON MONOXIDE DETECTOR	CEILING		CARBON MONOXIDE DETECTOR	CEILING		CARBON MONOXIDE DETECTOR	CEILING
	DIGITAL DAYLIGHT SENSOR	CEILING SEE DIAGRAM SPECIFICATION 2.		HEAT DETECTOR	CEILING		HEAT DETECTOR	CEILING		HEAT DETECTOR	CEILING
	TIME CLOCK	+5'-0"		DUCT SMOKE DETECTOR			DUCT SMOKE DETECTOR			DUCT SMOKE DETECTOR	MTD. IN DUCT
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED 9.11.		FIRE/SMOKE DAMPER			FIRE/SMOKE DAMPER			FIRE/SMOKE DAMPER	
	SIMPLEX RECEPTACLE	+16" OR AS NOTED 9.11.		DOOR HOLDER	AS NOTED		DOOR HOLDER	AS NOTED		DOOR HOLDER	AS NOTED
	SIMPLEX RECEPTACLE WITH USB OUTLET	+16" OR AS NOTED 9.11.		FLOOR SWITCH			FLOOR SWITCH			FLOOR SWITCH	
	DUPLEX RECEPTACLE	+16" OR AS NOTED 9.11.		TAMPER SWITCH			TAMPER SWITCH			TAMPER SWITCH	
	DUPLEX RECEPTACLE WITH USB OUTLET	+16" OR AS NOTED 9.11.		WATER FLOOD INDICATOR			WATER FLOOD INDICATOR			WATER FLOOD INDICATOR	
	CONTROLLED RECEPTACLE	+16" OR AS NOTED 9.11.		O S & Y VALVE			O S & Y VALVE			O S & Y VALVE	SEE DIAGRAM
	DUPLEX RECEPTACLE	9.		FIRE ALARM RELAY OR SECURITY RELAY			FIRE ALARM RELAY OR SECURITY RELAY			FIRE ALARM RELAY OR SECURITY RELAY	
	ELECTRIC WATER COOLER RECEPTACLE	SEE DIAGRAM		FIRE ALARM CONTROL MODULE			FIRE ALARM CONTROL MODULE			FIRE ALARM CONTROL MODULE	
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED 2.9.		FIRE ALARM MONITOR MODULE			FIRE ALARM MONITOR MODULE			FIRE ALARM MONITOR MODULE	
	ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED 2.9.		TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL	+4'-0"		TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL	+4'-0"		TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL	6
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED 9.11.		TWO-WAY COMMUNICATION SYSTEM CALL STATION	+4'-0"		TWO-WAY COMMUNICATION SYSTEM CALL STATION	+4'-0"		TWO-WAY COMMUNICATION SYSTEM CALL STATION	6
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED 9.11.		DURNESS PUSHBUTTON	+4'-0"		DURNESS PUSHBUTTON	+4'-0"		DURNESS PUSHBUTTON	6
	FOURPLEX RECEPTACLE	+16" OR AS NOTED 9.11.		SECURITY SYSTEM DOOR SWITCH	DOOR JAMB		SECURITY SYSTEM DOOR SWITCH	DOOR JAMB		SECURITY SYSTEM DOOR SWITCH	MOUNT AS PER MFR.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPTACLE	+16" OR AS NOTED 9.11.		SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING		SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING		SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED 9.11.		MAGNETIC SHEAR LOCK			MAGNETIC SHEAR LOCK			MAGNETIC SHEAR LOCK	
	TSVS PROTECTED RECEPTACLE	+16" OR AS NOTED 10. WITH CAP. 11		SECURITY SYSTEM KEYPAD ACCESS SWITCH	+4'-0"		SECURITY SYSTEM KEYPAD ACCESS SWITCH	+4'-0"		SECURITY SYSTEM KEYPAD ACCESS SWITCH	6
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED 10.		SECURITY SYSTEM KEYPAD	+4'-0"		SECURITY SYSTEM KEYPAD	+4'-0"		SECURITY SYSTEM KEYPAD	6
	CORD DROP	SEE DIAGRAM		INFRARED SENSOR	AS NOTED		INFRARED SENSOR	AS NOTED		INFRARED SENSOR	AS NOTED
	CORD REEL	SEE DIAGRAM		SECURITY MOTION DETECTOR			SECURITY MOTION DETECTOR			SECURITY MOTION DETECTOR	MOUNT AS PER MFR.
	TOMBSTONE RECEPTACLE	+48" OR AS NOTED		SECURITY SYSTEM POP-IT			SECURITY SYSTEM POP-IT			SECURITY SYSTEM POP-IT	MOUNT AS PER MFR.
	PLUGMOLD	+16" OR AS NOTED		GLASS BREAK DETECTOR	CEILING		GLASS BREAK DETECTOR	CEILING		GLASS BREAK DETECTOR	CEILING
	TELEVISION OUTLET	+16" OR AS NOTED 11.		ELECTRIC DOOR STRIKE	12.		ELECTRIC DOOR STRIKE	12.		ELECTRIC DOOR STRIKE	12.
	POWER POLE			ELECTRIC DOOR LOCK	12.		ELECTRIC DOOR LOCK	12.		ELECTRIC DOOR LOCK	12.
	FLAT PANEL DISPLAY WALL BOX	AS NOTED SEE DIAGRAM, SPEC.		ACCESS CONTROL SYSTEM, REQUEST TO EXIT			ACCESS CONTROL SYSTEM, REQUEST TO EXIT			ACCESS CONTROL SYSTEM, REQUEST TO EXIT	
	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING SEE DIAGRAM, SPEC.		ACCESS CONTROL CARD READER	+4'-0"		ACCESS CONTROL CARD READER	+4'-0"		ACCESS CONTROL CARD READER	6
	DATA OUTLET, ONE CABLE	+16" OR AS NOTED 9.11.		ACCESS CONTROL BIOMETRIC READER	+4'-0"		ACCESS CONTROL BIOMETRIC READER	+4'-0"		ACCESS CONTROL BIOMETRIC READER	+4'-0"
	DATA OUTLET, TWO CABLES	+16" OR AS NOTED 9.11.		CAMERA - SEE SCHEDULE	AS NOTED		CAMERA - SEE SCHEDULE	AS NOTED		CAMERA - SEE SCHEDULE	SEE DIAGRAM, SPEC.
	DATA OUTLET, THREE CABLES	+16" OR AS NOTED 9.11.		DOOR POSITION INDICATING SWITCH			DOOR POSITION INDICATING SWITCH			DOOR POSITION INDICATING SWITCH	
	DATA OUTLET, W/MORE THAN (3) CABLES	+16" OR AS NOTED 9.11.		LIGHT FIXTURE (LETTER DESIGNATES TYPE)			LIGHT FIXTURE (LETTER DESIGNATES TYPE)			LIGHT FIXTURE (LETTER DESIGNATES TYPE)	
	WIRELESS ACCESS POINT, ONE CABLE	CEILING		PANEL/CIRCUIT RELAY-CIRCUIT (IF REQUIRED)			PANEL/CIRCUIT RELAY-CIRCUIT (IF REQUIRED)			PANEL/CIRCUIT RELAY-CIRCUIT (IF REQUIRED)	
	CALL SWITCH	+4'-0"		EQUIPMENT NUMBER			EQUIPMENT NUMBER			EQUIPMENT NUMBER	
				ARCHITECTURAL ROOM NUMBER			ARCHITECTURAL ROOM NUMBER			ARCHITECTURAL ROOM NUMBER	
				DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE			DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE			DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE	

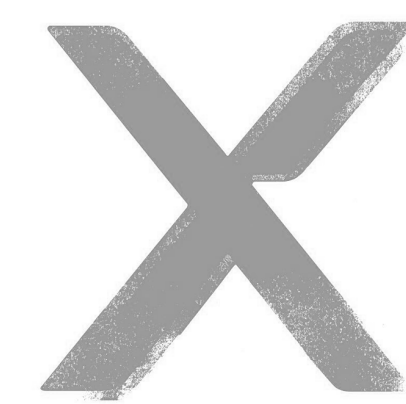


LIGHTING SHOP DRAWING REQUIREMENTS	
1.	REFER TO SPECIFICATIONS 250500, 265100 & 265600 (16001, 16510 & 16551).
2.	MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
3.	LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
4.	COLOR 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.



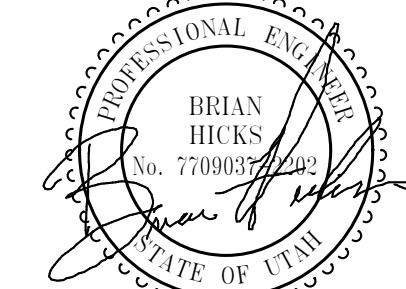


SHEET KEYNOTES	
P4	REPLACE EXISTING PANEL IN THE STORAGE BUILDING WITH NEW 120/208V PANEL. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROTECT ANY WIRING AND RACEWAY THAT WILL REMAIN OR BE RELOCATED DURING CONSTRUCTION AND WILL BE RESPONSIBLE TO REPLACE IF IT BECOMES DAMAGED WITHOUT ADDITIONAL COST TO THE OWNER. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
P6	RE-FEED SERVICE PANEL IN STABLE FROM NEW MAIN SERVICE IN EQUESTRIAN CENTER. PROVIDE A BUCK-BOOST TRANSFORMER AS NEEDED TO STEP UP THE VOLTAGE FROM 208V TO 240V FOR EXISTING DISTRIBUTION. DEMOLISH ALL RELATED EQUIPMENT WITH PREVIOUS SERVICE INTO STABLE BUILDING INCLUDING BUT NOT LIMITED TO ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD.
P7	EXISTING UTILITY TRANSFORMER AND RMP GROUND SLEEVE TO BE REMOVED FROM EXISTING LOCATION. GROUND SLEEVE SHALL BE RELOCATED NEAR THE LOCATION OF THE NEW TRANSFORMER INDICATED WITH KEYNOTE 8. BEFORE REMOVING TRANSFORMER ENSURE NEW SERVICE IS LIVE AND SERVICE INTO THE STABLE BUILDING HAS BEEN COMPLETED TO ENSURE NO DOWNTIME. ELECTRICAL CONTRACTOR SHALL COORDINATION WITH BRYAN MILLWARD FROM ROCKY MOUNTAIN POWER FOR DATE AND TIME OF REMOVING EXISTING SERVICE.
P8	LOCATE NEW 120/208V 3-PHASE SERVICE TRANSFORMER IN LOCATION SHOWN. COORDINATE WITH ROCKY MOUNTAIN POWER AND CIVIL ENGINEER TO LOCATE. FOOTING OF THE EXISTING TRENCHING FOR POWER TO BE LOCATED ABOVE IT. RE-UTILIZE EXISTING TRENCHING TO NEW TRANSFORMER LOCATION. PROVIDE ADDITIONAL P CONDUIT FOR RMP PRIMARY SERVICE AS NEEDED TO GUARANTEE A FULL WORKING INSTALLATION OF NEW SERVICE.
T7	COORDINATE WITH ALLWEST FOR EXACT LOCATION OF SERVICE PEDESTAL BOX LOCATED NEAR THE EXISTING PROGRAM SERVICES BUILDING TO PROVIDE NEW FIBER FEED INTO THE EQUESTRIAN CENTER BUILDING.
T8	PROVIDE (1) 2" CONDUIT FOR FIBER FEED INTO THE BUILDING. RUN CONDUIT FROM ALLWEST PEDESTAL BOX TO DEMARCATION POINT INSIDE THE EQUESTRIAN CENTER BUILDING. COORDINATE WITH UTILITY FOR EXACT SIZE OF CONDUIT FOR SERVICE PRIOR TO ROUGH-IN.



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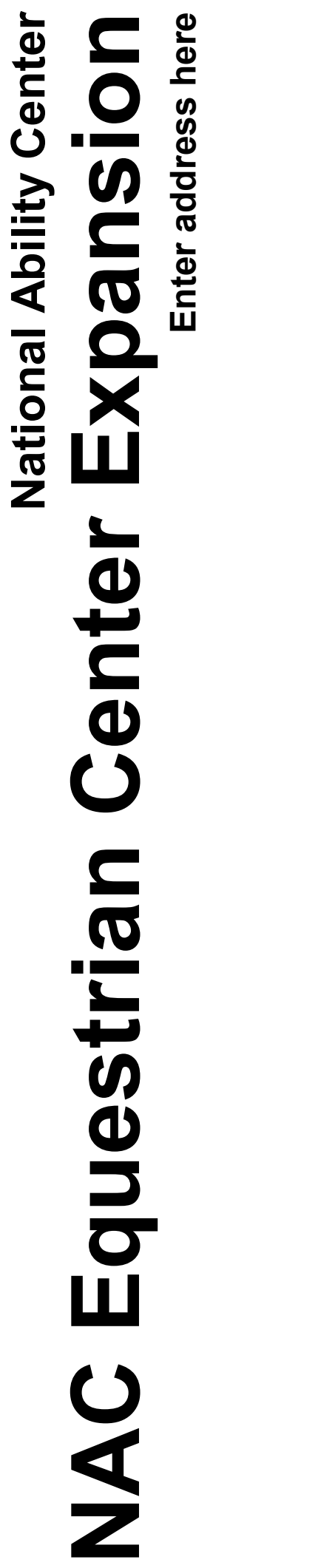
#      Date      Revision

**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 17179  
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DRAWN BY: BHH  
DATE: 06.08.18

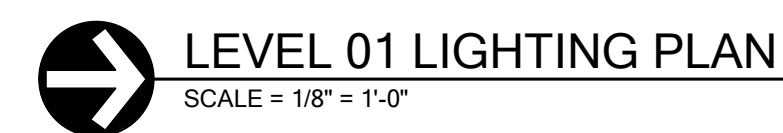
**ELECTRICAL SITE PLAN**



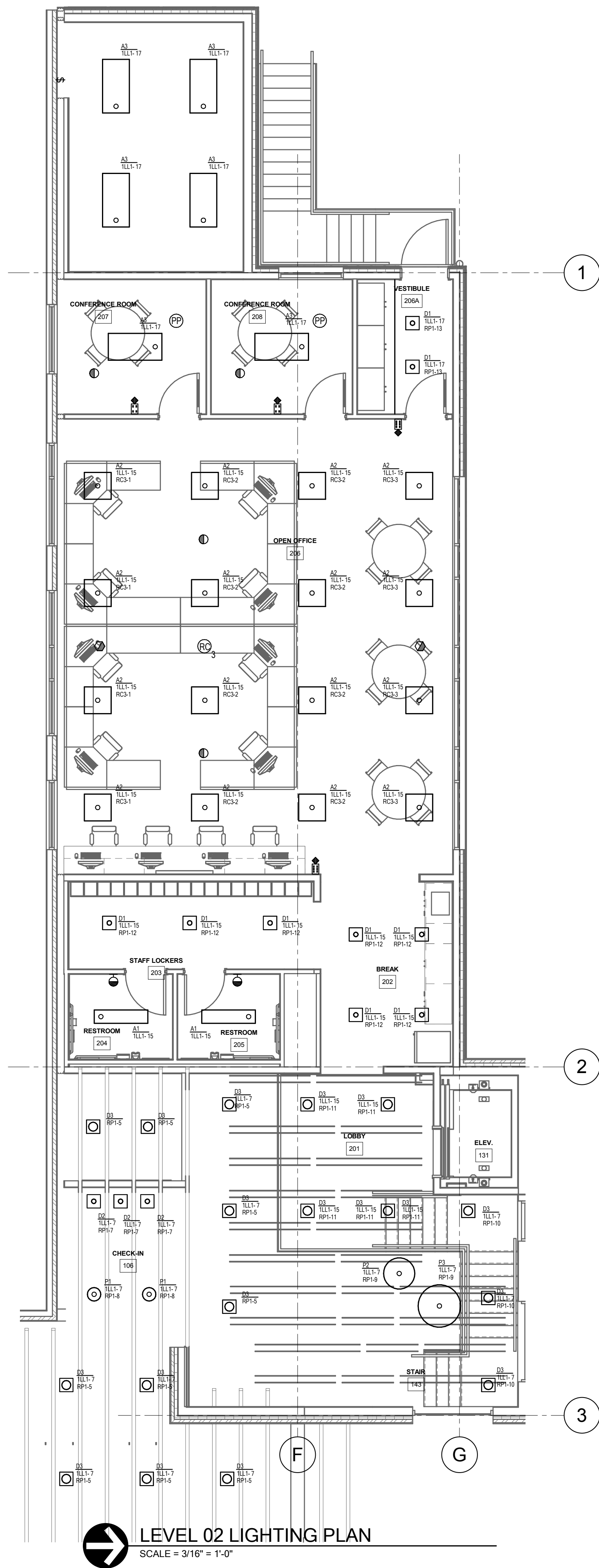


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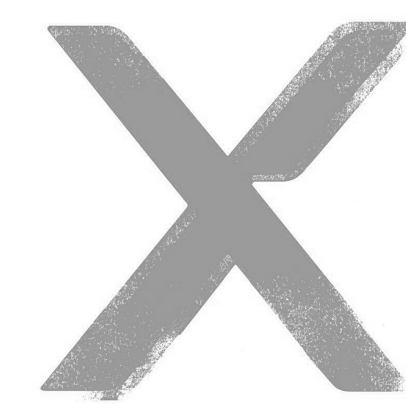
# E201







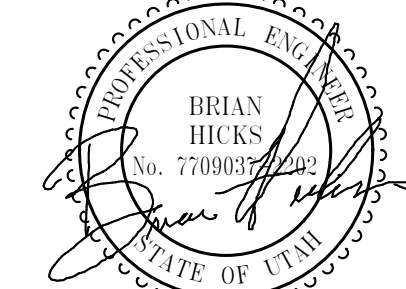
LEVEL 02 LIGHTING PLAN  
SCALE = 3/16" = 1'-0"



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LEVEL 02  
LIGHTING  
PLAN

E202



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3

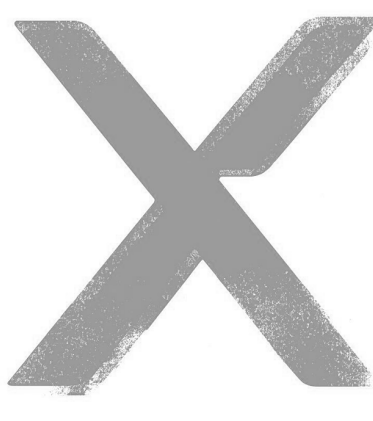
4

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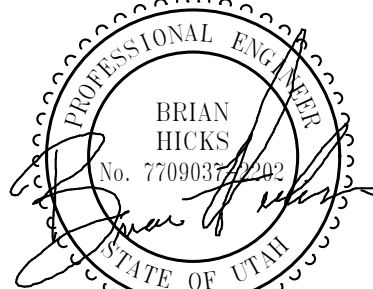
SHEET KEYNOTES

P3 PROVIDE POWER CONNECTION TO AUTOMATIC PAPER TOWEL DISPENSER. CONFIRM FINAL LOCATION WITH ARCHITECT AND ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.  
P9 COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH ELEVATOR MANUFACTURER AND SHOP DRAWINGS PRIOR TO ROUGH-IN.



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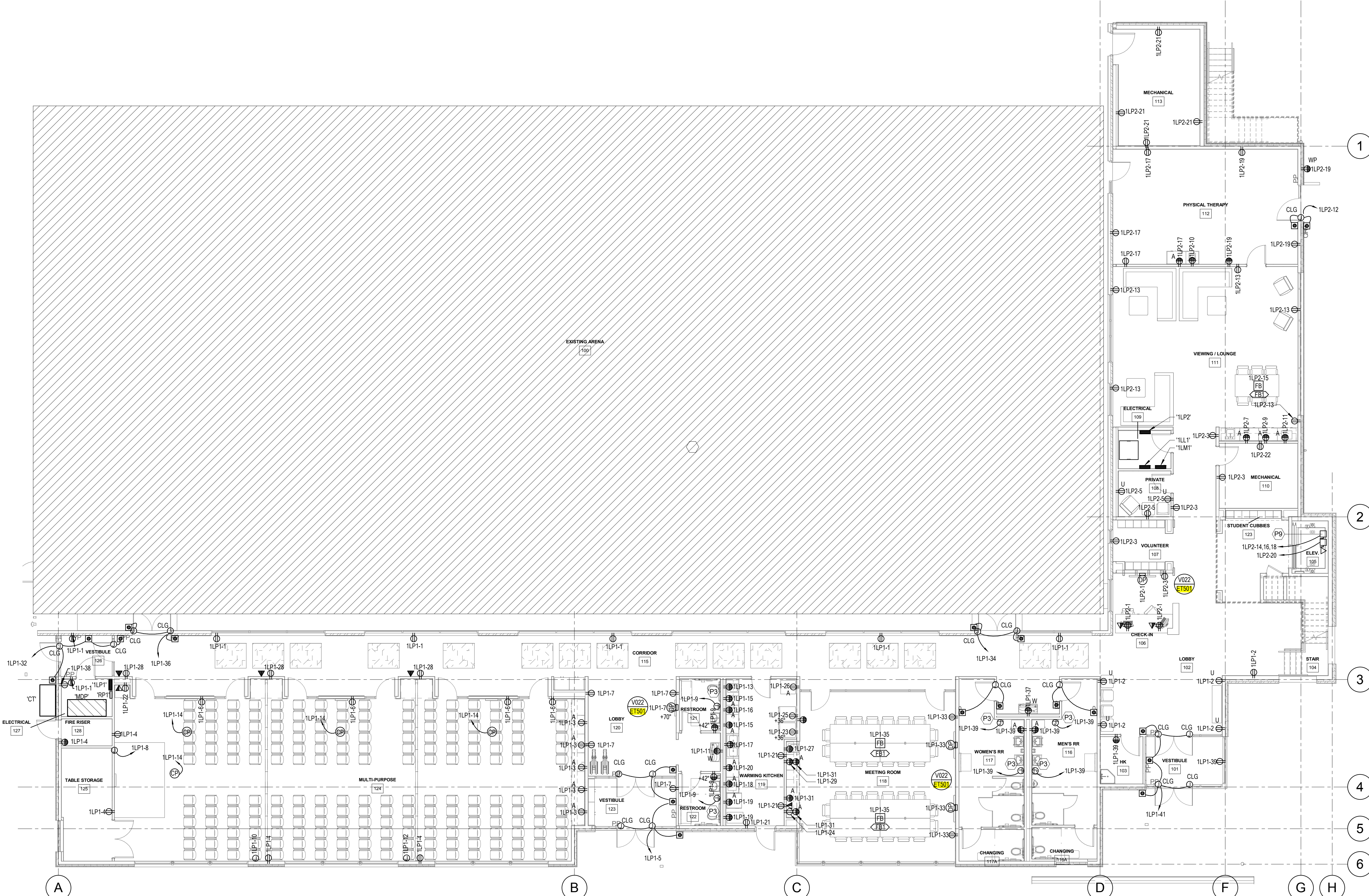
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CONSTRUCTION DOCUMENTS

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LEVEL 01  
POWER PLAN

E301



LEVEL 01 POWER PLAN  
SCALE = 1/8" = 1'-0"

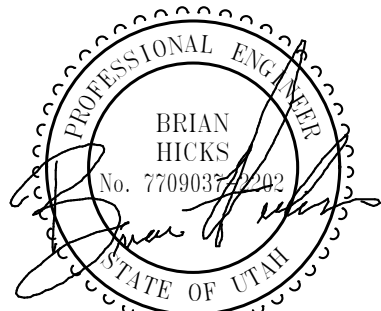


SHEET KEYNOTES	
P1	COORDINATE EXACT LOCATION OF INDICATED DEVICES WITH WITH ARCHITECT AND FURNITURE SHOP DRAWINGS PRIOR TO ROUH-IN.
P3	PROVIDE POWER CONNECTION TO AUTOMATIC PAPER TOWEL DISPENSER. CONFIRM FINAL LOCATION WITH ARCHITECT AND ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

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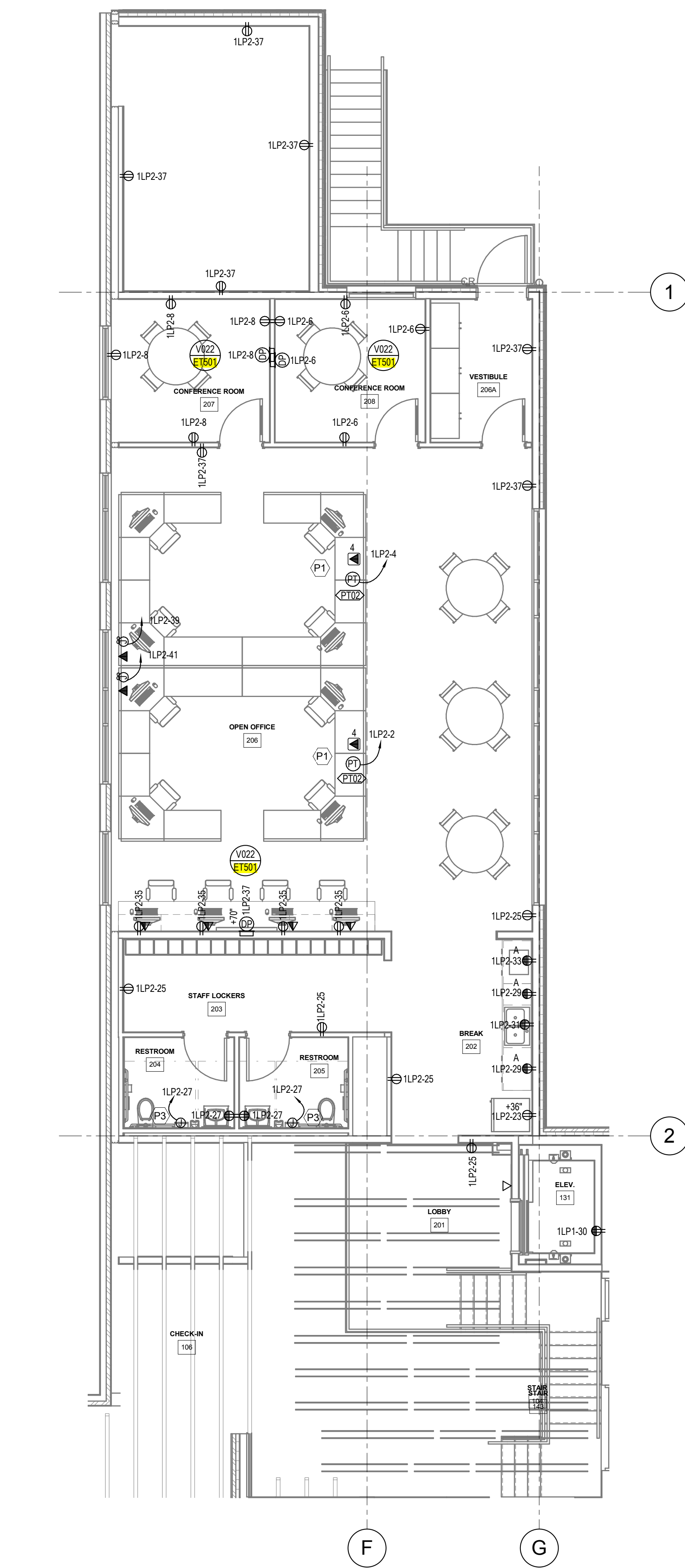
**NAC Equestrian Center Expansion**




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# E302



 LEVEL 02 POWER PLAN  
SCALE = 3/16" = 1'-0"



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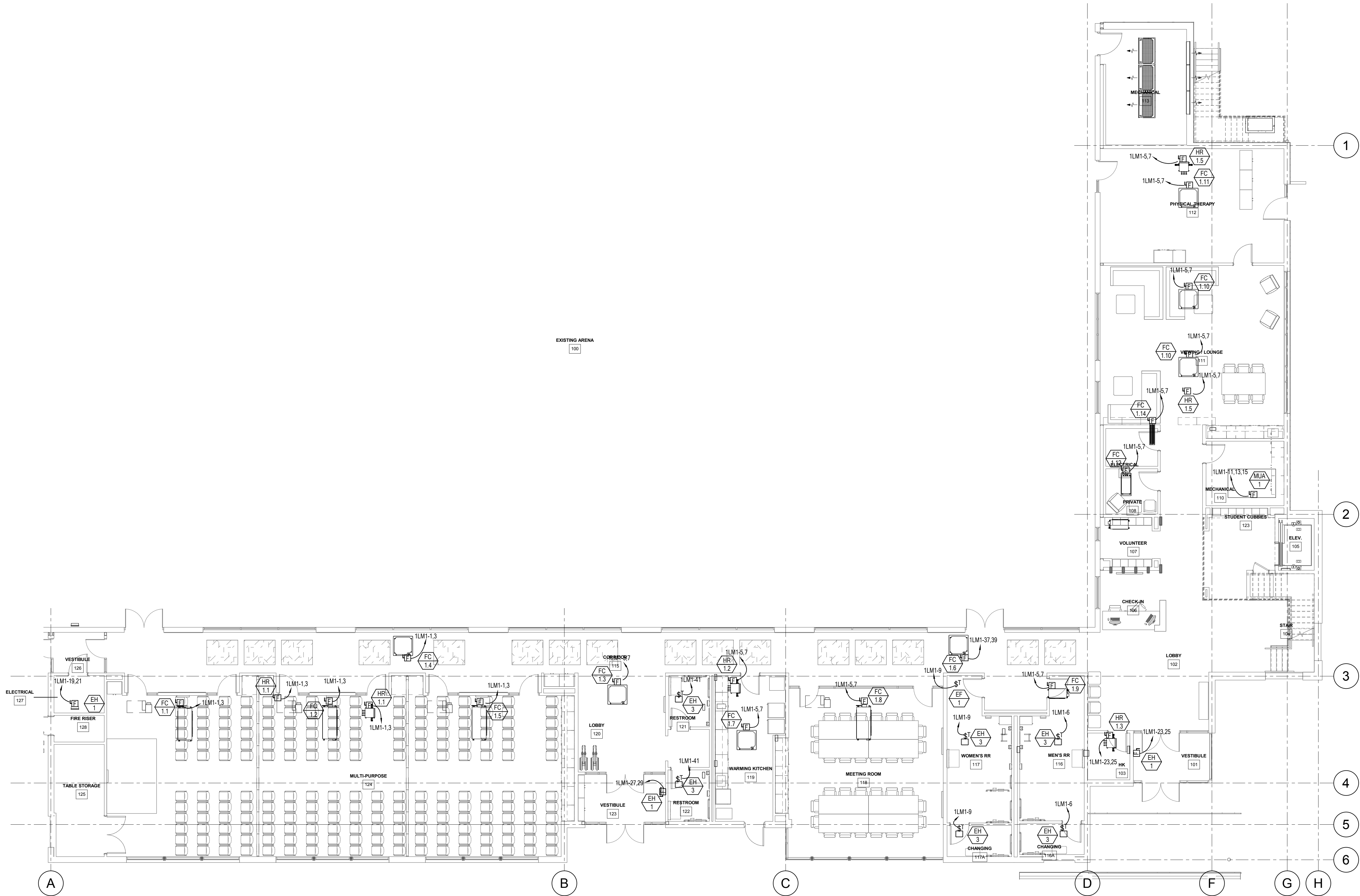
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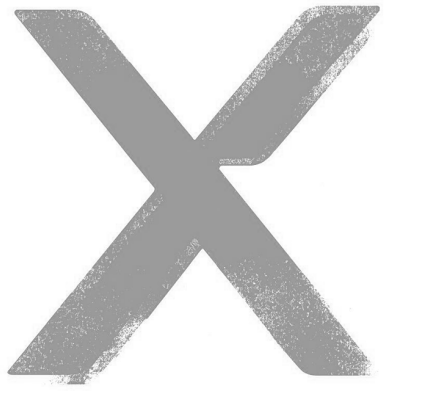
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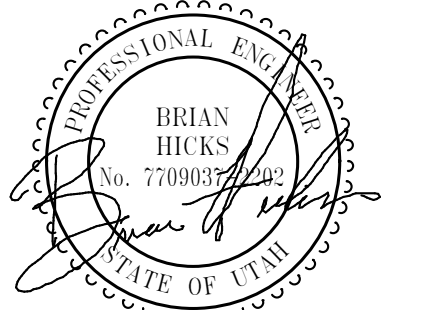
➔ LEVEL 01 MECHANICAL POWER PLAN  
SCALE = 1/8" = 1'-0"



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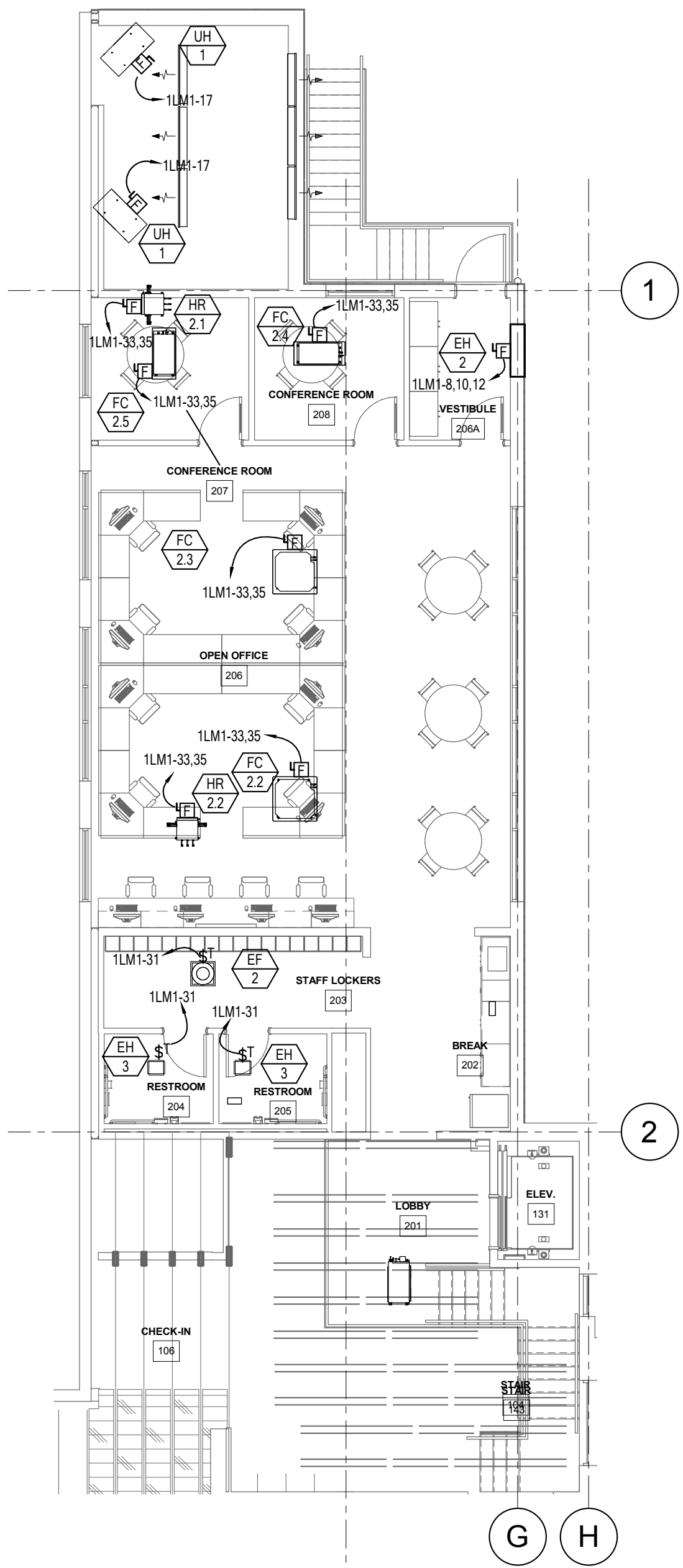
**CONSTRUCTION DOCUMENTS**

NEXUS PROJ. #: 17179  
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DRAWN BY: Author  
DATE: 06.08.18

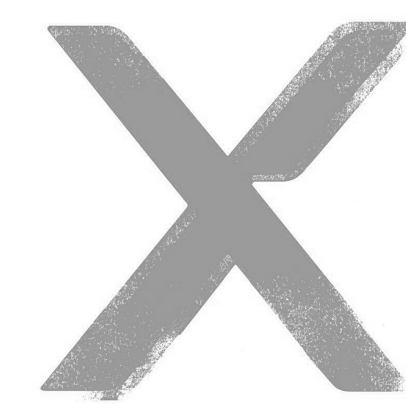
**LEVEL 01  
MECHANICAL  
POWER PLAN**

**E303**





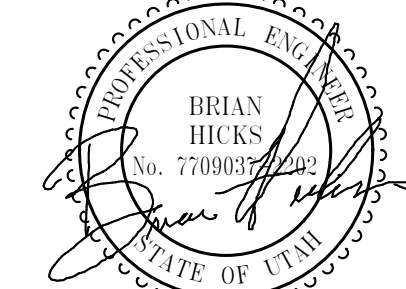
→ LEVEL 02 MECHANICAL POWER PLAN  
SCALE = 1/8" = 1'-0"



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**LEVEL 02  
MECHANICAL  
POWER PLAN**

**E304**



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

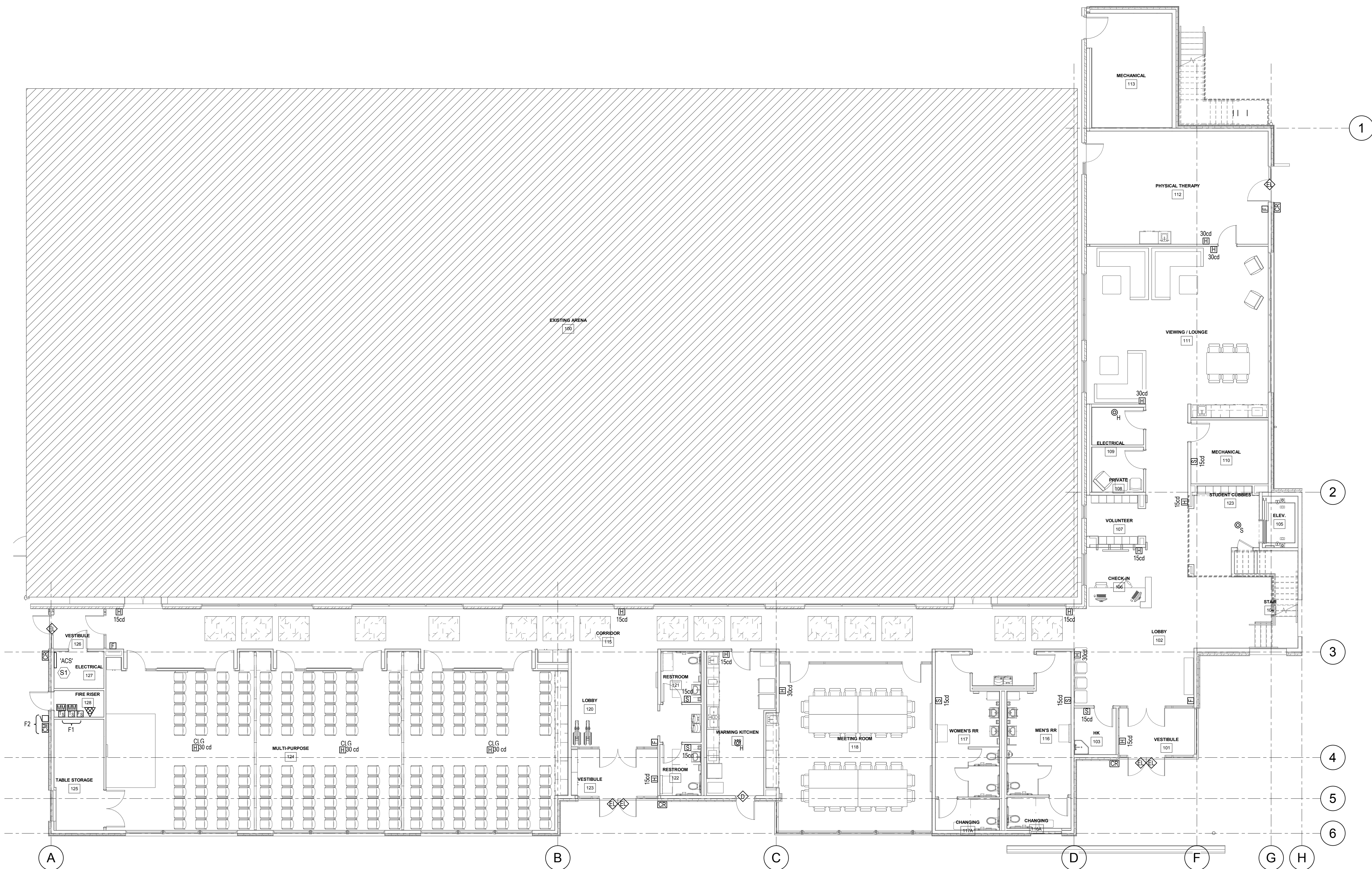
E

D

C

B

A

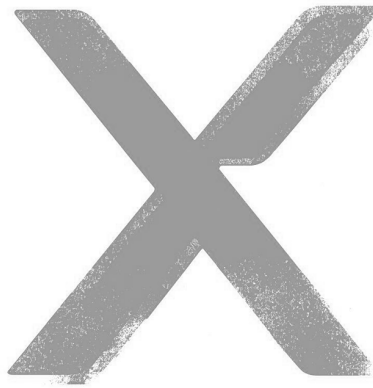


## GENERAL NOTES

1. PROVIDE RACEWAY, CONDUIT, AND WIRING FOR SECURITY DEVICES INDICATED.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO SECURITY DEVICES. COORDINATE ALL JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM CONTROL SYSTEM SUPPLIER PRIOR TO ANY ROUGH-IN.
3. DIV. 8 AND DIV. 28 CONTRACTORS SHALL COORDINATE WITH ELECTRICAL CONTRACTORS TO OUTLINE POWER AND WIRING FOR DEVICES AND EXACT DEVICE LOCATION.
4. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.
5. ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) BY DIV. 8. REVIEW DOOR HARDWARE SCHEDULE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS MATCH DOOR.
6. POWER SUPPLIES FOR ELECTRONIC LOCKS AND ACCESS CONTROL DEVICES PROVIDED BY DIV. 28 CONTRACTOR. COORDINATE WITH DIV. 8 FOR EXACT POWER NEEDED.
7. ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING SYSTEM.
8. REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.
9. 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 0101 FOR ADDITIONAL INFORMATION.

## SHEET KEYNOTES

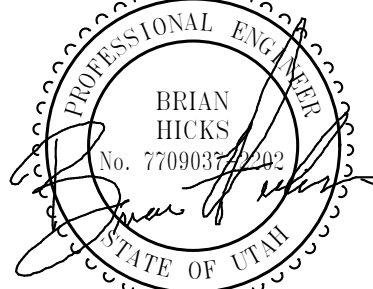
S1 PROVIDE DEDICATED 20AMP CIRCUIT FOR EACH ACCESS CONTROL PANEL



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## LEVEL 01 SYSTEMS PLAN

E401

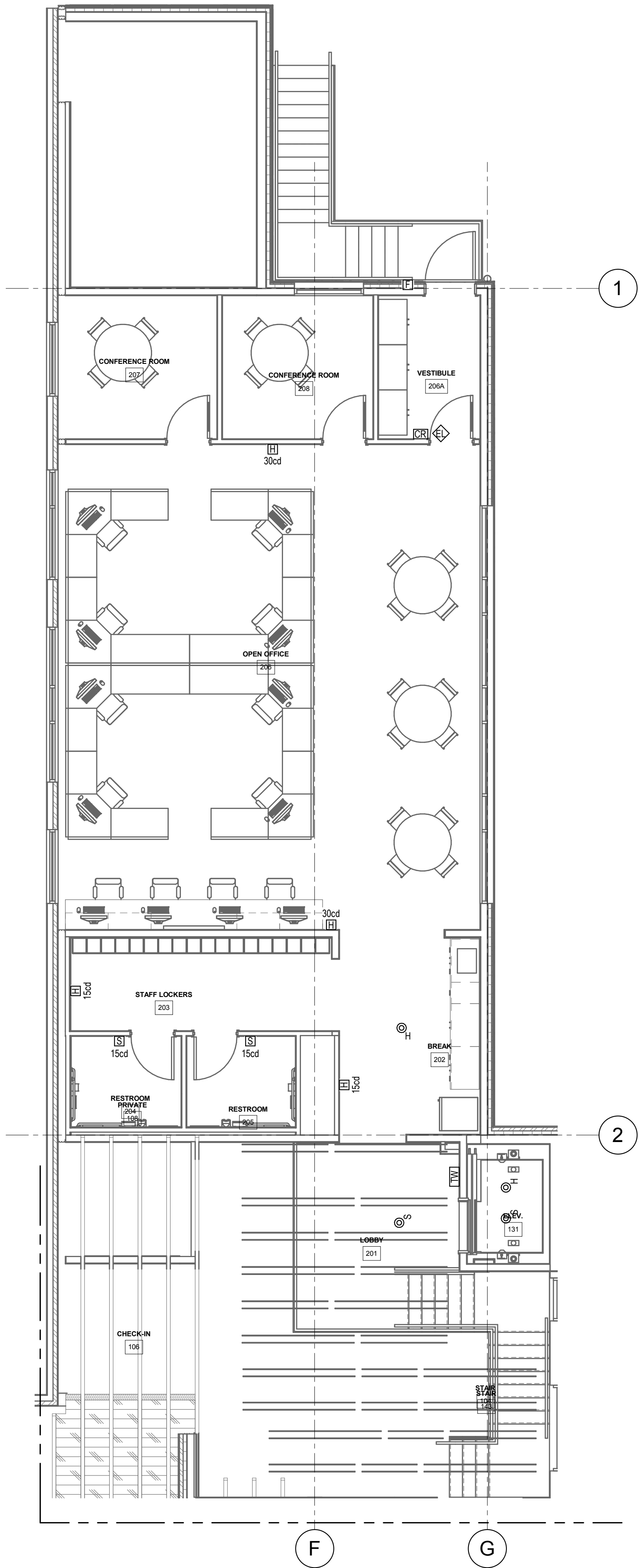


LEVEL 01 SYSTEMS PLAN

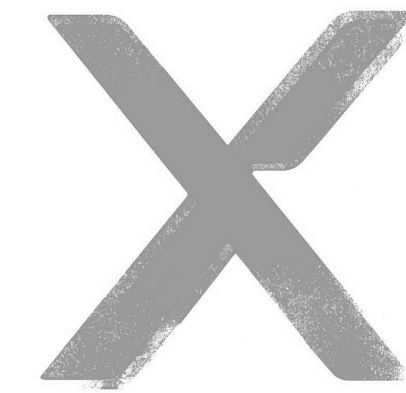
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06/20/18 2:42:39 PM





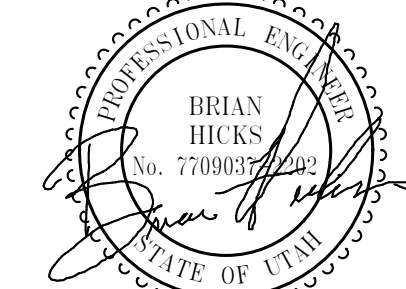
LEVEL 02 SYSTEM PLAN  
SCALE = 3/16" = 1'-0"



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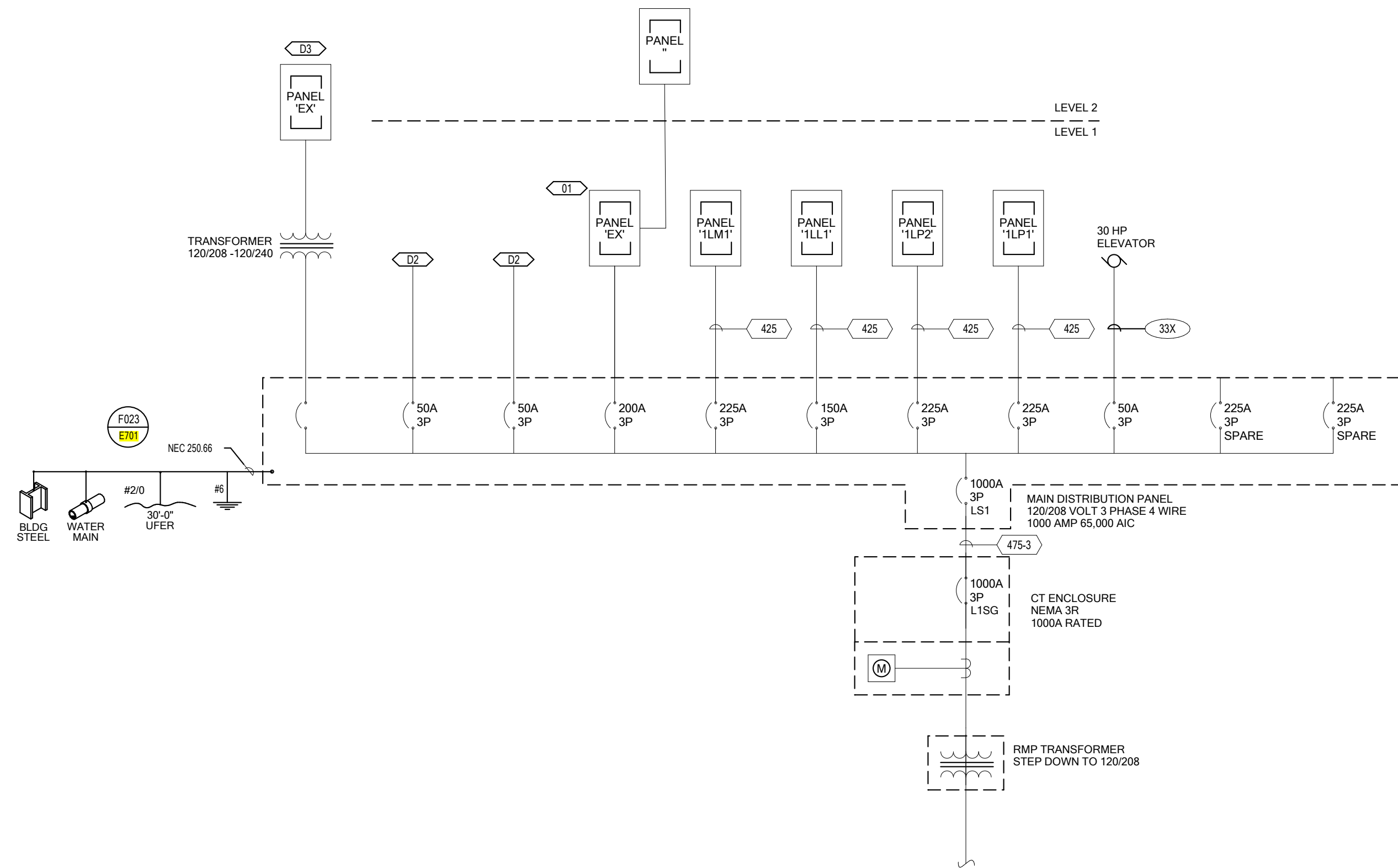
**LEVEL 02  
SYSTEMS  
PLAN**

**E402**



### ONE-LINE GENERAL NOTES

1. PROVIDE PROTECTION DEVICE STUDY AS OUTLINED ON 28-1573 FOR THE NORMAL AND EMERGENCY ELECTRICAL BRANCHES PRIOR TO SUBMITAL 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.



1 ONE-LINE DIAGRAM  
SCALE

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE					
TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUIT SIZE	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

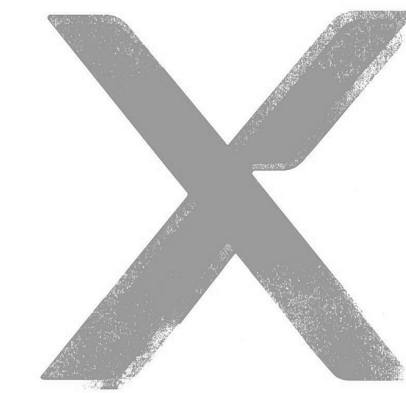
ALUMINUM CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS					
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN. SIZE	CONDUIT SIZE EQ. GND. COND. (AL)
325-2	400	410	2	3 250	2.5" 2/0
425-2	400	410	2	4 250	2.5" 2/0
525-2	400	410	2	5 * 250	2.5" 2/0
350-2	600	620	2	3 500	3" 2/0
450-2	600	620	2	4 500	3" 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 △ 480-208/120 ∇					
TRANS KVA	O.C. PROT.	TYPE COND.*	GND. COND.**	MIN. Z%	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDUCTOR QUAN. SIZE	CONDUIT SIZE	EQ. GND. COND.
30	50	3	8	3	100	141X	120	1	4 1/0	1-1/2"	6
45	70	3	4	3	175	144X	180	1	4 4/0	3"	4
75	125	3X	2	3	225	145X	250	1	4 350	3"	2
112.5	175	3X	2	4	400	145X	410	2	4 250	3"	1
150	300	3X	2/0	4	600	149X	610	2	4 500	4"	2/0
225	400	3X	3/0	4	800	149X	810	3	4 400	4"	3/0
300	600	3X2	3/0	5	1200	149X	1240	4	4 500	4"	250
500	800	3X3	3/0	5	1600	149X	1620	6	4 400	4"	350
750	1200	3X4	3/0	5	3000	149X	3100	10	4 500	4"	400***

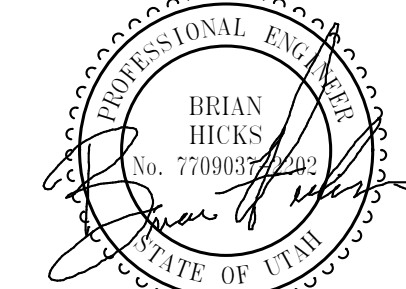
ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY						ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY (200% NEUTRAL) 480-208/120 ∇					
TRANS KVA	O.C. PROT.	TYPE COND.*	GND. COND.**	MIN. Z%	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDUCTOR QUAN. SIZE	CONDUIT SIZE	EQ. GND. COND.
30	50	3	8	3	100	151X	120	1	5 1/0	2"	6
45	70	3	4	3	175	154X	180	1	5 4/0	3"	4
75	125	3X	2	3	225	155X	250	1	5 350	3"	2
112.5	175	3X	2	4	400	155X	410	2	5 250	3"	1
150	300	3X	2/0	4	600	159X	610	2	5 500	4"	2/0
225	400	3X	3/0	4	800	159X	810	3	5 400	4"	3/0
300	600	3X2	3/0	5	1200	159X	1240	4	5 500	4"	250
500	800	3X3	3/0	5	1600	159X	1620	6	5 400	4"	350
750	1200	3X4	3/0	5	3000	159X	3100	10	5 500	4"	400***

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



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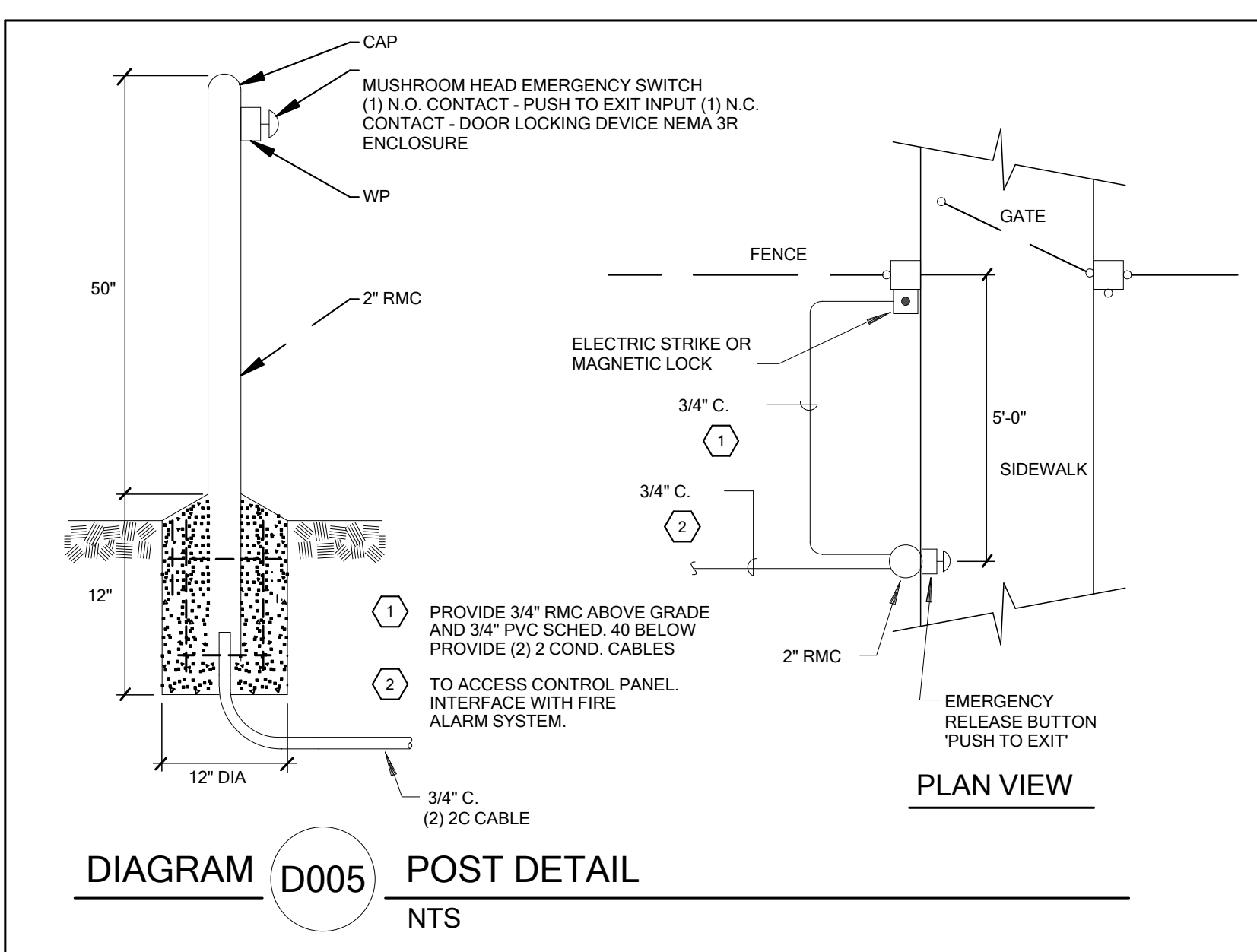
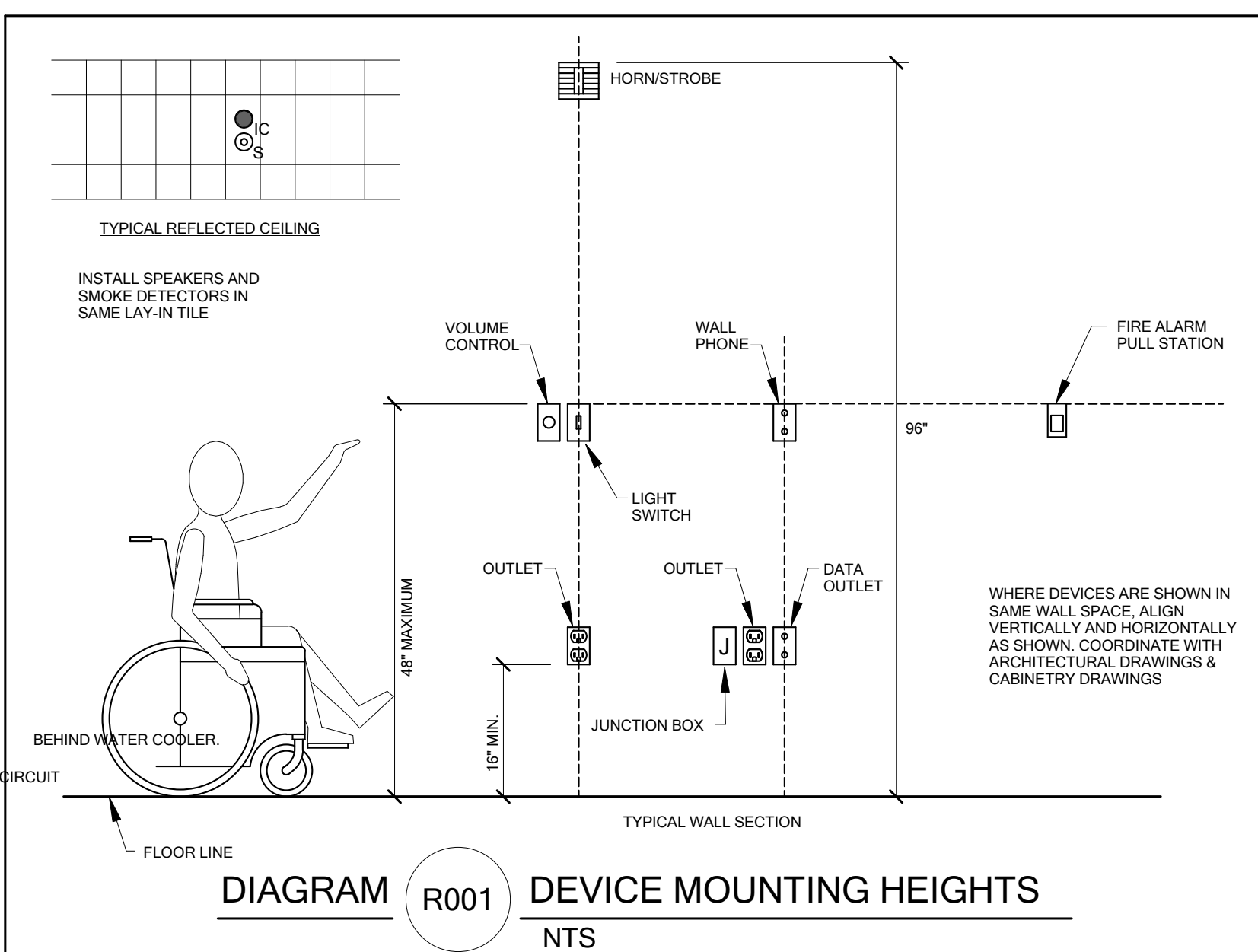
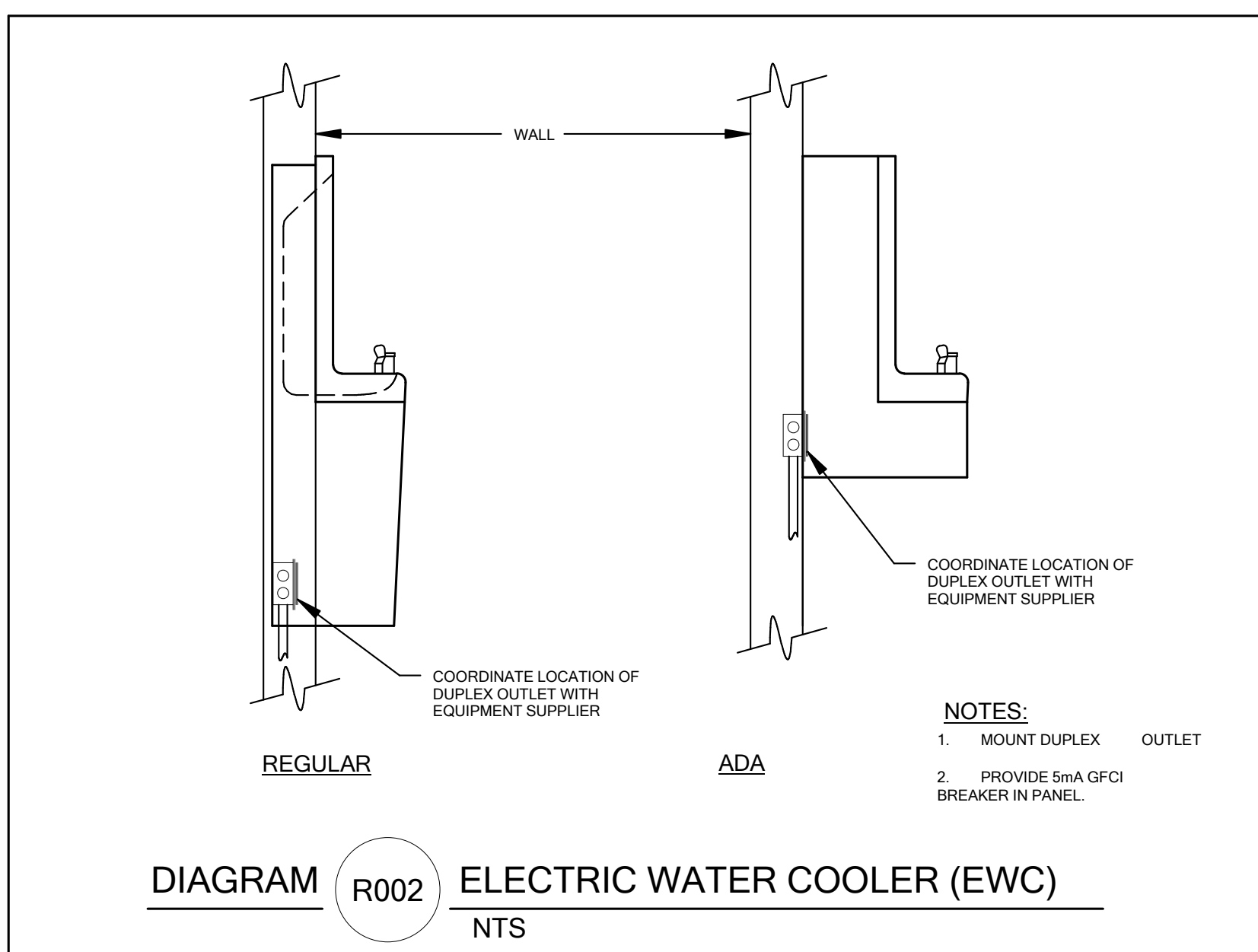
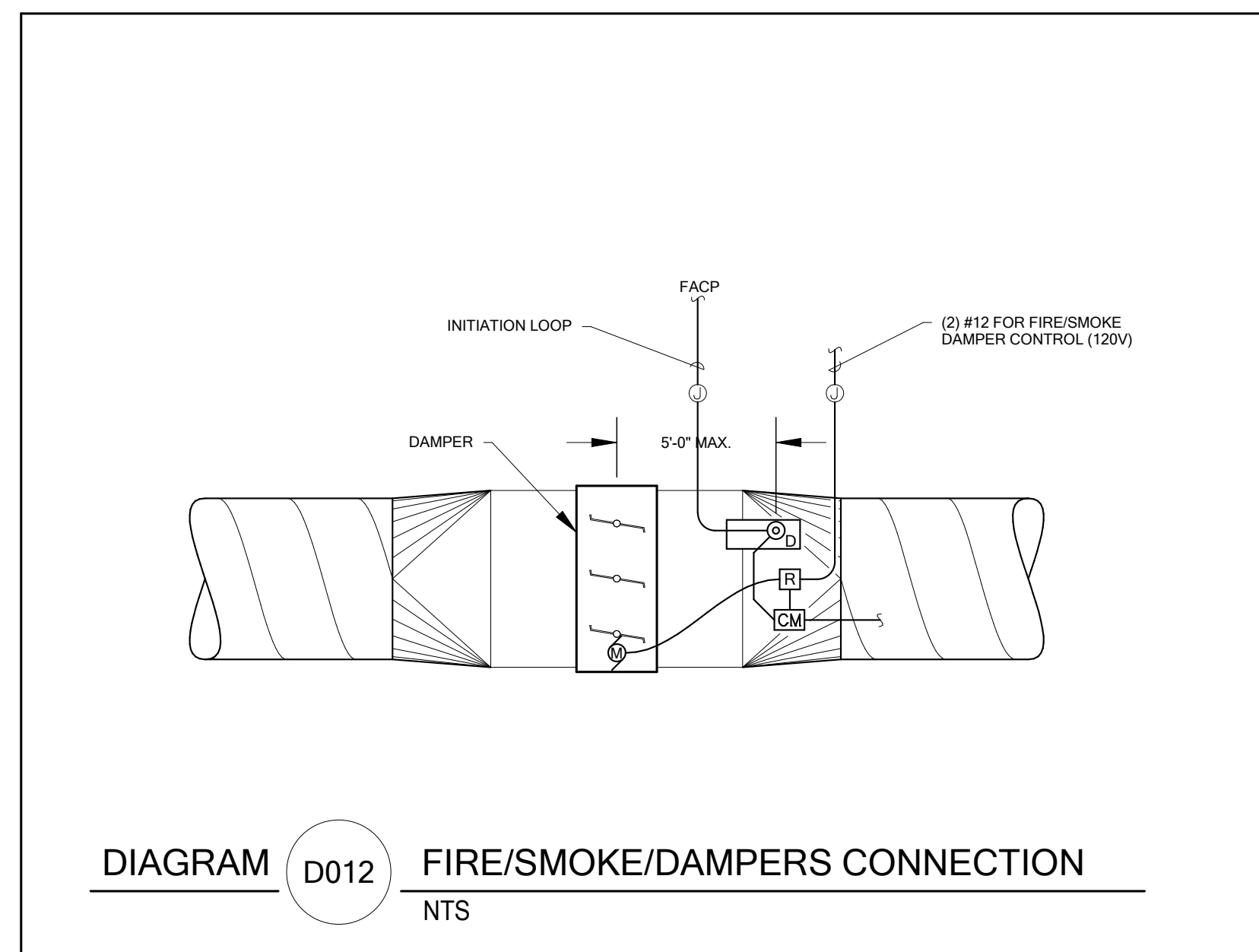
### ONE-LINE DIAGRAM

### E501



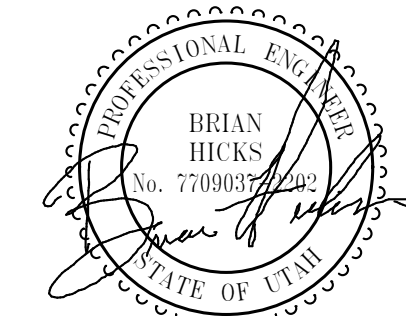
PANELBOARD SCHEDULE																								
PANEL: 1LP1					TYPE: Type 1					VOLTS: 120/208 Wye					PHASE: 3					WIRES: 4				
MOUNTING: SURFACE					LOCATION: ELECTRICAL 127										MAINS: MLO					FED FROM: SUBFEED LUGS				
					AMP: 225 A															ISO GROUND				
																				200% NEUTRAL				
																				SPD				
BRANCH BREAKERS																								
ITEM		AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM								
RECEPTACLE Room 109, 180		20 A	1	12	1	1260 VA						2	12	1	20 A	RECEPTACLE								
RECEPTACLE		20 A	1	12	3		900 VA					4	12	1	20 A	RECEPTACLE Space 168								
POWER Space 170		20 A	1	12	5			1000 VA				6	12	1	20 A	RECEPTACLE Space 168								
Other Space 169		20 A	1	12	7	720 VA				0 VA		8	12	1	20 A	POWER								
RECEPTACLE Space 161		20 A	1	12	9		420 VA				0 VA	10	12	1	20 A	POWER Space 168								
RECEPTACLE Space 169		20 A	1	12	11		1500 VA				0 VA	12	12	1	20 A	POWER Space 168								
RECEPTACLE Space 160		20 A	1	12	13	180 VA				0 VA		14	12	1	20 A	POWER Space 168								
RECEPTACLE Space 160		20 A	1	12	15		360 VA			180 VA		16	12	1	20 A	RECEPTACLE Space 146								
RECEPTACLE Space 160		20 A	1	12	17		180 VA			180 VA		18	12	1	20 A	RECEPTACLE Space 146								
RECEPTACLE Space 160		20 A	1	12	19	360 VA				180 VA		20	12	1	20 A	RECEPTACLE Space 146								
RECEPTACLE Space 160		20 A	1	12	21		540 VA			180 VA		22	12	1	20 A	RECEPTACLE								
RECEPTACLE Space 160		20 A	1	12	23		180 VA			180 VA		24	12	1	20 A	RECEPTACLE Space 159								
RECEPTACLE Space 160		20 A	1	12	25	180 VA				180 VA		26	12	1	20 A	RECEPTACLE Space 160								
RECEPTACLE Space 171		20 A	1	12	27		180 VA			540 VA		28	12	1	20 A	RECEPTACLE CORRIDOR-1 115-1								
RECEPTACLE Space 171		20 A	1	12	29		180 VA				212 VA	30	12	1	20 A	LTG/ROPT Elevator								
RECEPTACLE Space 171		20 A	1	12	31	540 VA				0 VA		32	1	20 A	POWER VESTIBULE 126									
RECEPTACLE Space 171		20 A	1	12	33		360 VA			0 VA		34	1	20 A	POWER									
RECEPTACLE Space 171		20 A	1	12	35			360 VA			0 VA	36	1	20 A	POWER									
RECEPTACLE Space 109		20 A	1	12	37	1500 VA				180 VA		38	1	20 A	RECEPTACLE ELECTRICAL 127									
RECEPTACLE Space 168		20 A	1	12	39		840 VA					40												
POWER Space 175		20 A	1	12	41			1000 VA				42												
					6180	5400	5692	TOTAL (VA)					CONNECTED LOAD TOTAL											
Legend:					52 A	45 A	48 A	AMPS/PHASE					17272 VA											
* PROVIDE 5mA GFCI CIRCUIT BREAKER																								
A/C RATING																								
AMPS RMS SYSTEM																								





# E701



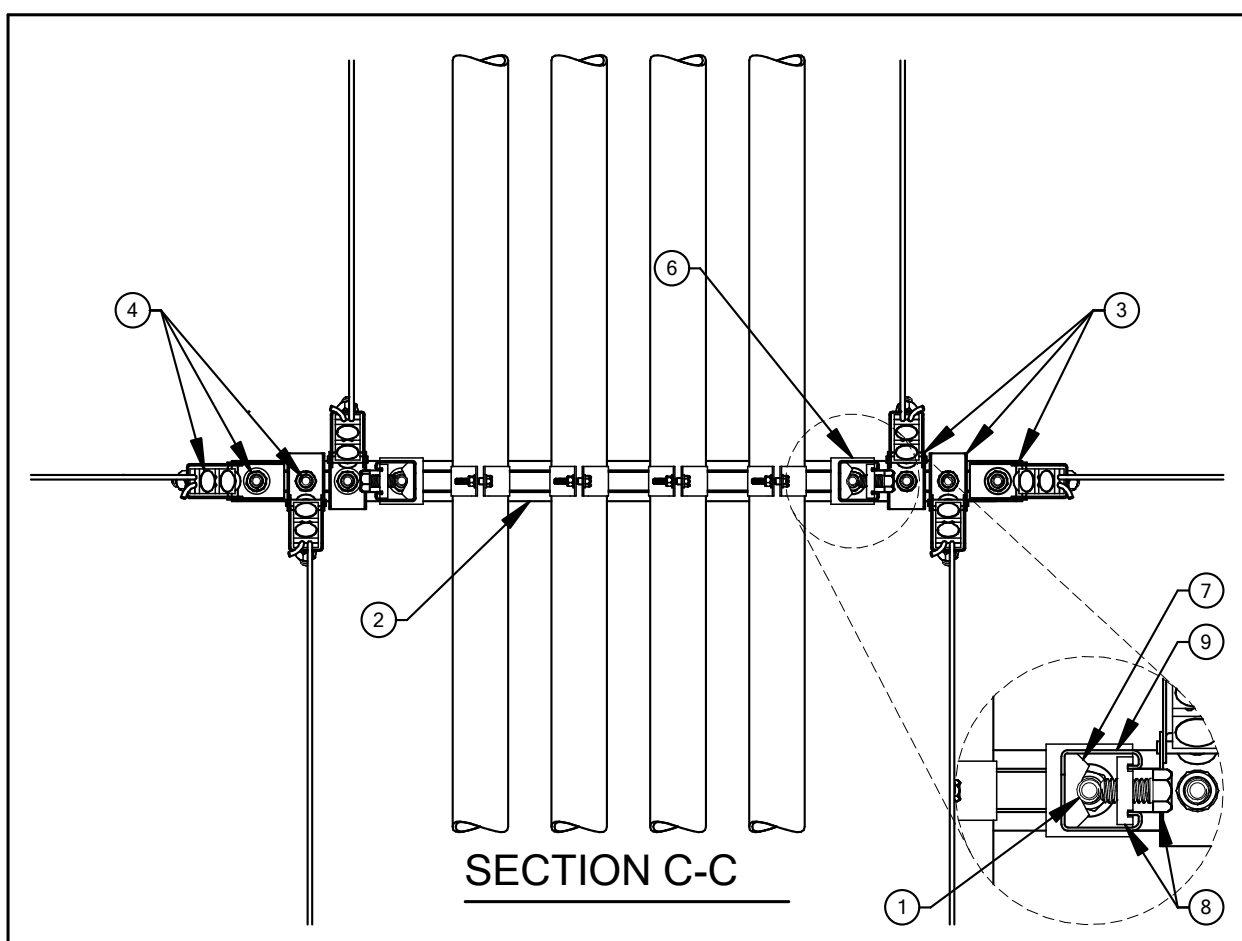
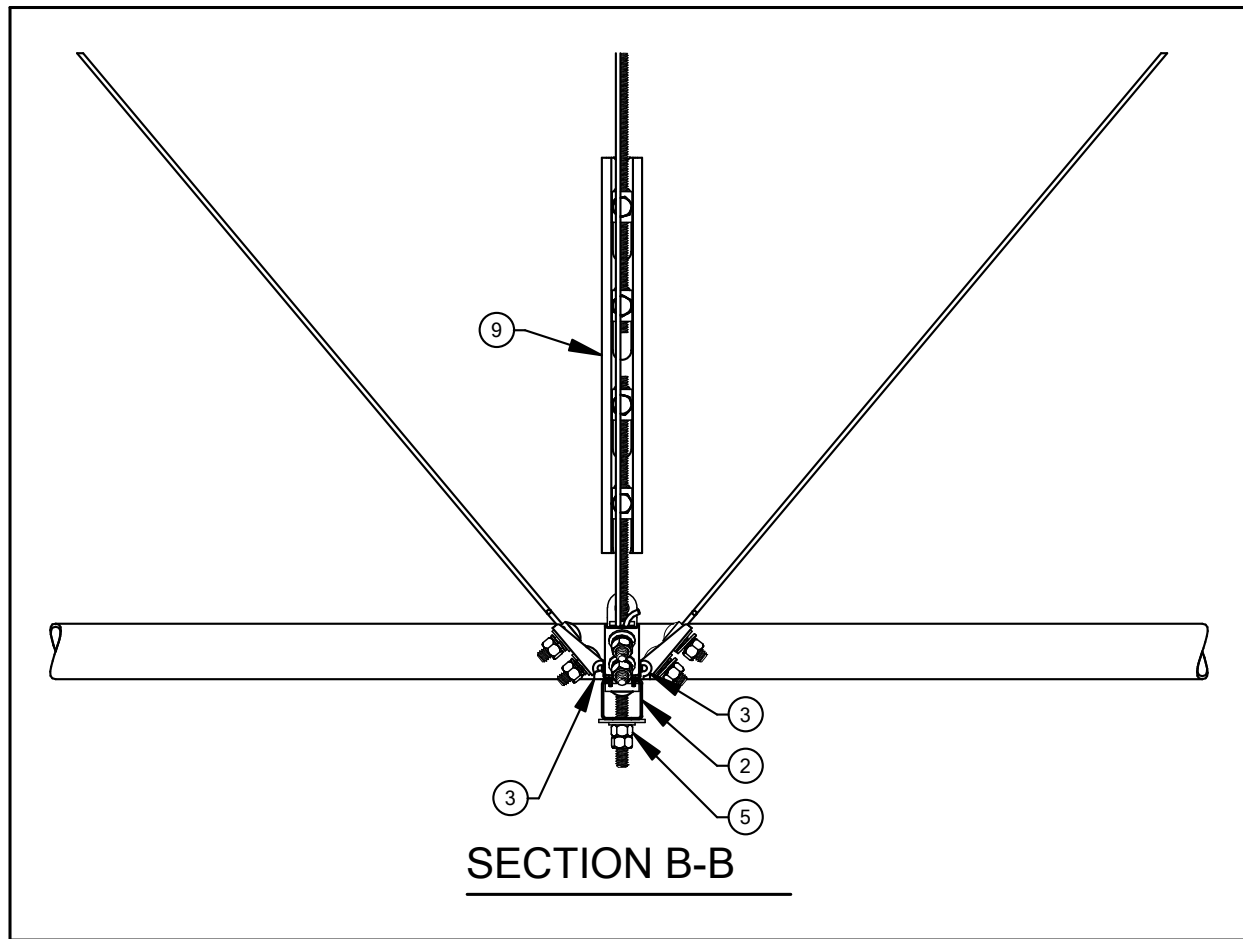
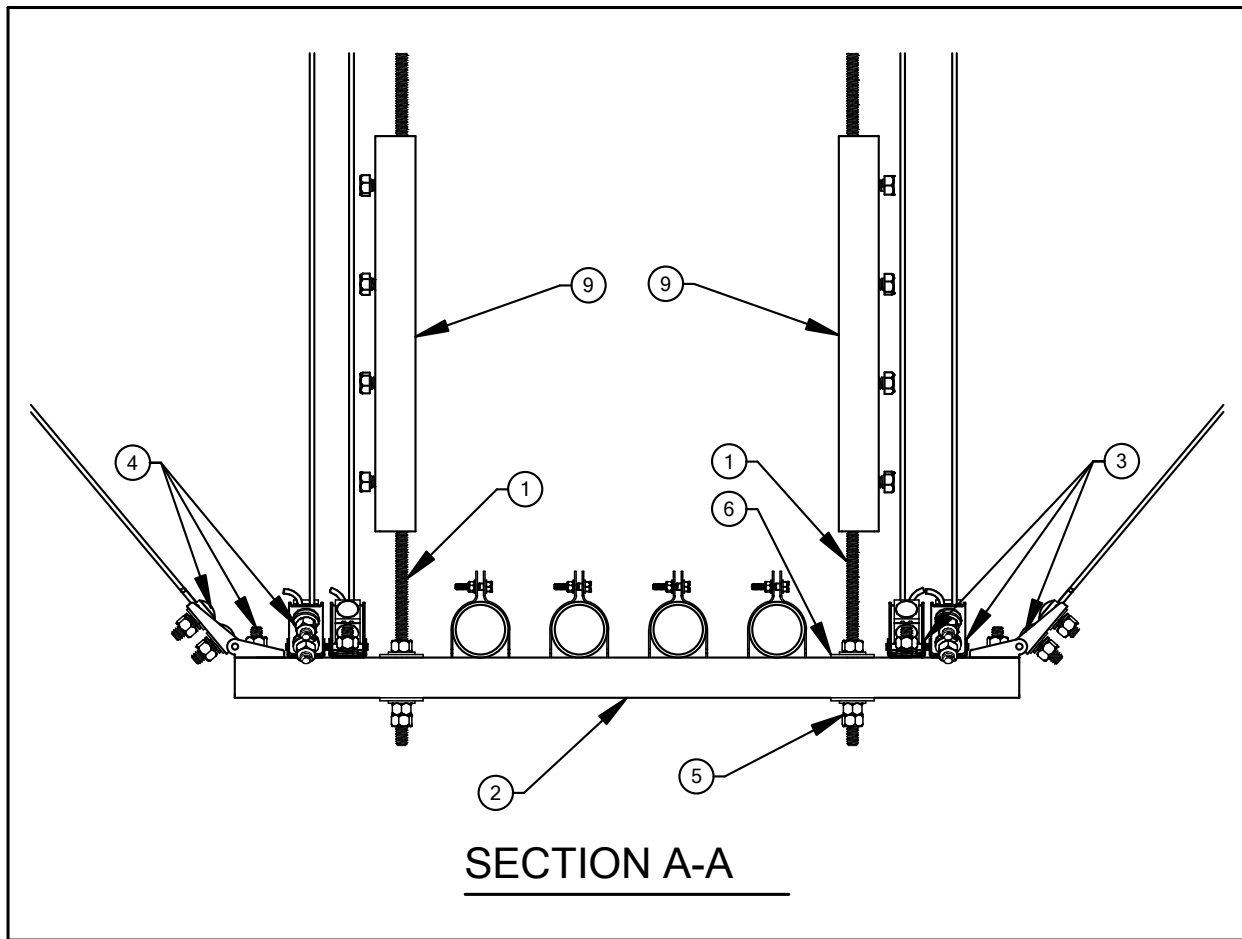


#	Date	Revisior
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# E702

A





PARTS LIST			
ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREAD ROD (MIN. MODULUS OF OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	P1000
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	MASON NO. SCB-X
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	HHCS/P1010
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-1 1/2"	P1003 OR P1004
5	FLAT WASHER WITH HEX NUT	3/8"	P2485
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	HHCS/P2008
7	CRADLE	-	P1000T
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	-
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	-

NOTES:						
1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:						
MAX CONDUIT/ WIRE WT.	VERTICAL SUPPORT SPACING	LATERAL SUPPORT SPACING	LONGITUDINAL SUPPORT SPACING	ROD DIAMETER	CONTROL BUCKLING LENGTH (2)	CABLE BRACE SWIVEL ANCHOR & CABLE
POUNDS/FOOT	FEET	FEET	FEET	INCHES	INCHES	
15	10	20	20	.375	18	SCB2
45	10	10	20	.375	10	SCB3
30	10	10	20	.500	16	SCB3

GENERAL NOTES	
1. COORDINATE ROUTING OF CONDUIT RACKS AND SUPPORT SYSTEMS WITH DIVISION 23.	

FEEDER WEIGHTS (COPPER CONDUCTORS)			
TYPE	AMP/FT (AWG/FT)	WEIGHT (LBS/100 FT)	WEIGHT (KGS/100 FT)
20	30	12.61	9.21
30	30	13.00	9.60
40	30	13.39	9.99
50	30	13.82	10.32
60	30	14.08	10.68
70	30	14.24	10.84
80	30	14.38	10.98
90	30	14.56	11.16
100	30	14.79	11.40
110	30	15.09	11.69
120	30	15.42	12.00
130	30	15.78	12.34
140	30	16.17	12.71
150	30	16.59	13.10
160	30	17.04	13.50
170	30	17.52	13.92
180	30	18.02	14.35
190	30	18.55	14.79
200	30	19.10	15.24
220	30	20.20	16.00
240	30	21.35	16.80
260	30	22.54	17.65
280	30	23.78	18.55
300	30	25.06	19.50
320	30	26.38	20.50
340	30	27.74	21.55
360	30	29.14	22.65
380	30	30.58	23.75
400	30	32.06	24.90
420	30	33.58	26.05
440	30	35.14	27.25
460	30	36.74	28.45
480	30	38.38	29.70
500	30	40.06	31.00
520	30	41.78	32.30
540	30	43.54	33.65
560	30	45.34	35.00
580	30	47.18	36.40
600	30	49.06	37.80
620	30	50.98	39.25
640	30	52.94	40.70
660	30	54.94	42.20
680	30	56.98	43.70
700	30	59.06	45.25
720	30	61.18	46.80
740	30	63.34	48.40
760	30	65.54	50.00
780	30	67.78	51.65
800	30	70.06	53.30
820	30	72.38	55.00
840	30	74.74	56.70
860	30	77.14	58.45
880	30	79.58	60.20
900	30	82.06	62.00
920	30	84.58	63.80
940	30	87.14	65.60
960	30	89.74	67.45
980	30	92.38	69.30
1000	30	95.06	71.20

CONDUCTOR WEIGHTS			
WIRE SIZE	#/FT	FOUR CONDERS	
14	0.016	0.064	
12	0.025	0.100	
10	0.039	0.156	
8	0.066	0.264	
6	0.098	0.392	
4	0.155	0.620	
3	0.190	0.760	
2	0.235	0.940	
1	0.300	1.200	
1/0	0.370	1.480	
2/0	0.460	1.840	
3/0	0.570	2.280	
4/0	0.710	2.840	
250	0.845	3.380	
300	1.020	4.080	
350	1.165	4.660	
400	1.325	5.300	
500	1.640	6.560	
600	2.005	8.020	
750	2.490	9.920	
1000	3.300	13.200	

CONDUIT TABLE									
SIZE (IN)	RIGID CONDUIT			INTERMEDIATE CONDUIT			EMT CONDUIT		
	#/FT	#/CPLG	#/10FT	#/FT	#/CPL	TOTAL #/10FT	#/FT	#/CPL	#/10FT
1/2	0.820	0.14	8.24	0.570	0.14	5.84	0.295	0.07	3.02
3/4	1.120	0.24	11.44	0.780	0.24	8.04	0.445	0.12	4.57
1	1.600	0.39	16.39	1.120	0.39	11.59	0.650	0.20	6.70
1-1/4	2.160	0.47	22.07	1.44	0.47	14.87	0.860	0.24	9.84
1-1/2	2.680	0.66	27.46	1.760	0.66	18.26	1.110	0.33	11.43
2	3.500	1.05	36.05	2.350	1.05	24.55	1.410	0.53	14.63
2-1/2	5.000	1.80	57.80	3.930	1.80	41.10	2.300	0.90	23.90
3	7.120	3.00	74.20	7.830	3.00	51.30	2.700	1.50	28.50
3-1/2	8.520	3.90	89.10	5.610	3.90	60.00	-	-	-
4	10.360	4.00	107.60	6.290	4.00	66.90	4.000	2.00	42.00
5	13.910	7.00	146.70	-	-	-	-	-	-
6	18.500	10.75	195.75	-	-	-	-	-	-

NOTES:  
(1) WEIGHTS USED ARE FOR RIGID STEEL C/PLGS  
(2) WEIGHTS USED ARE EQUAL TO 5 TIMES RIGID STEEL C/PLGS

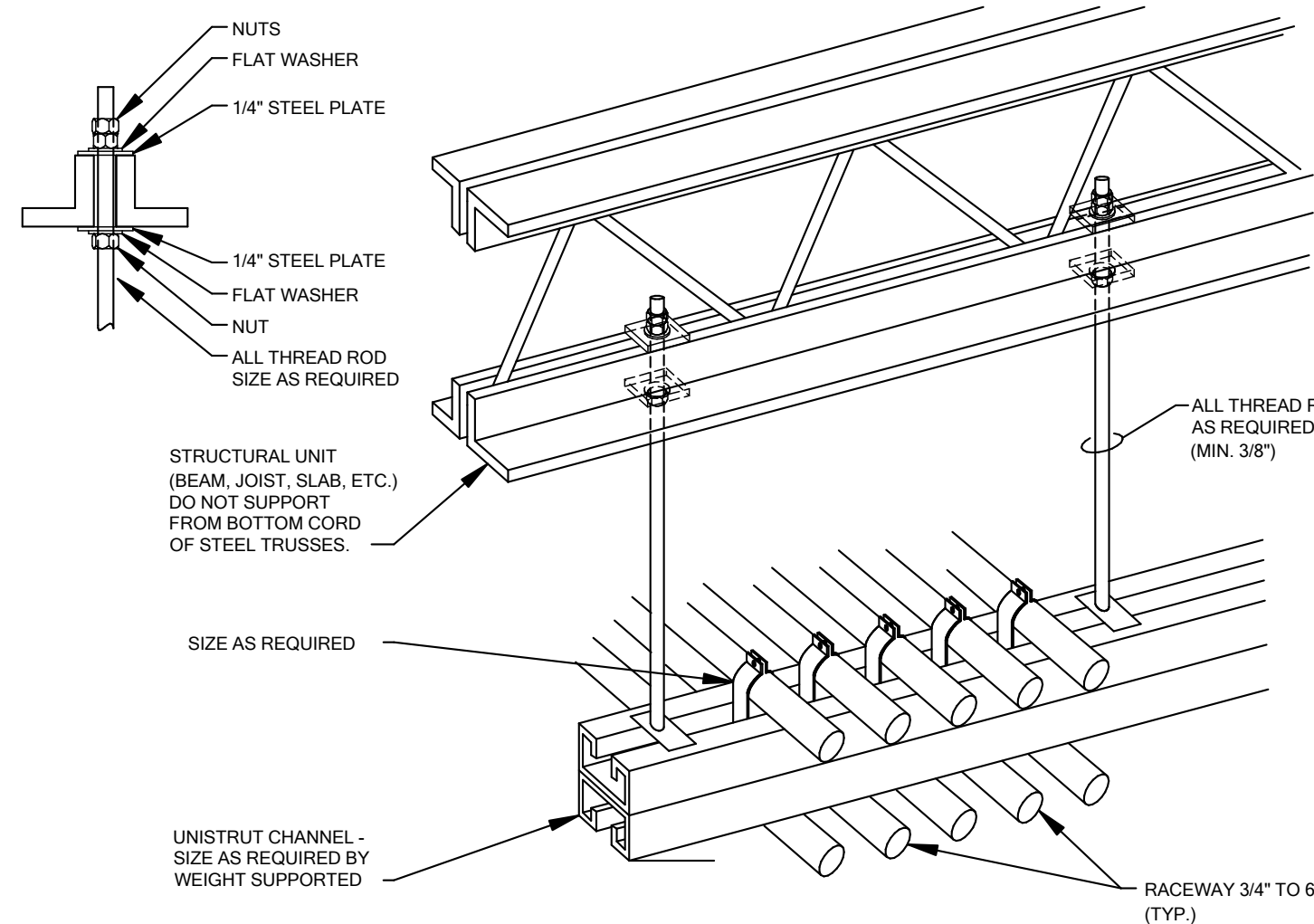


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK NTS

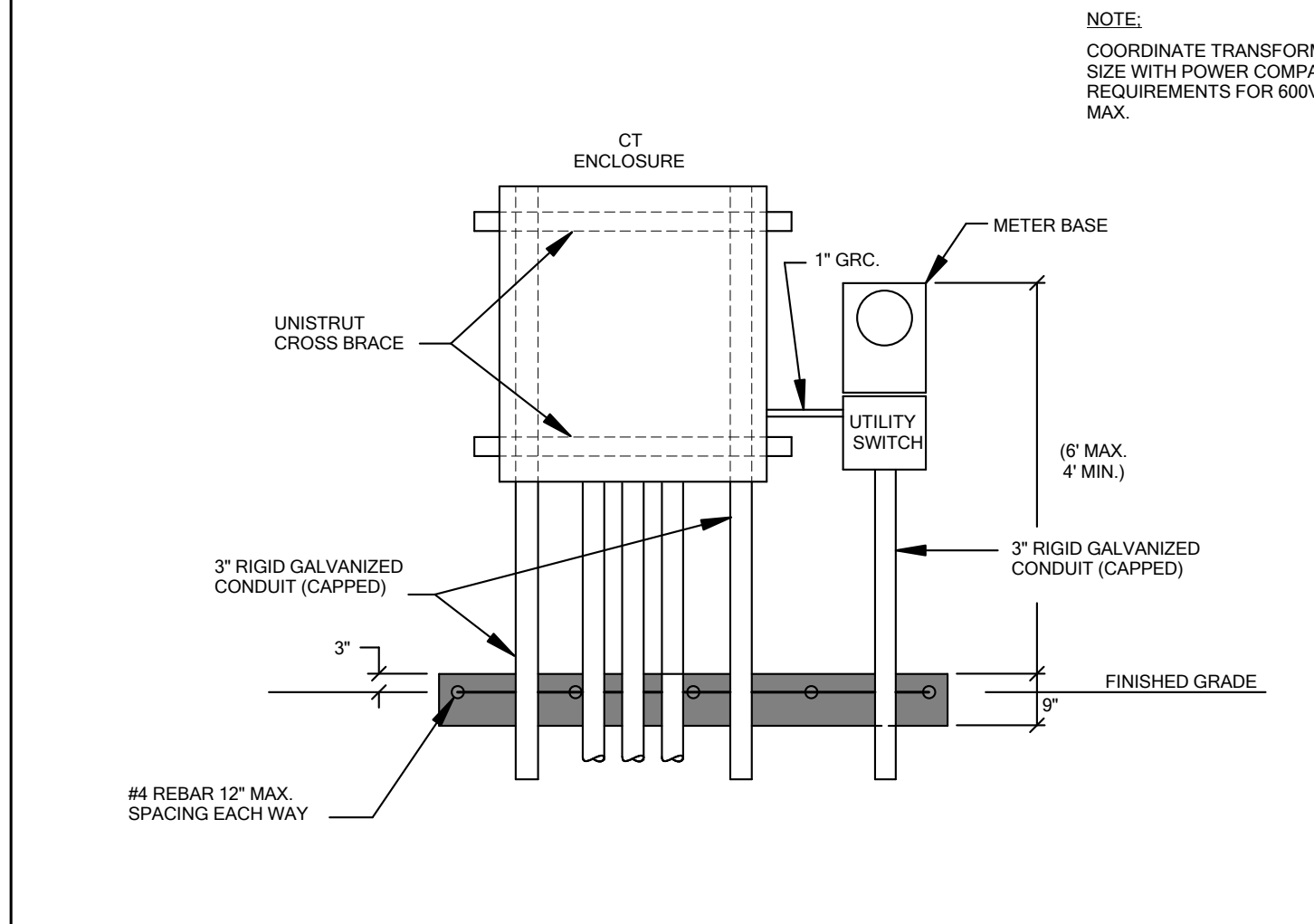


DIAGRAM Q001 CURRENT TRANSFORMER METERING NTS

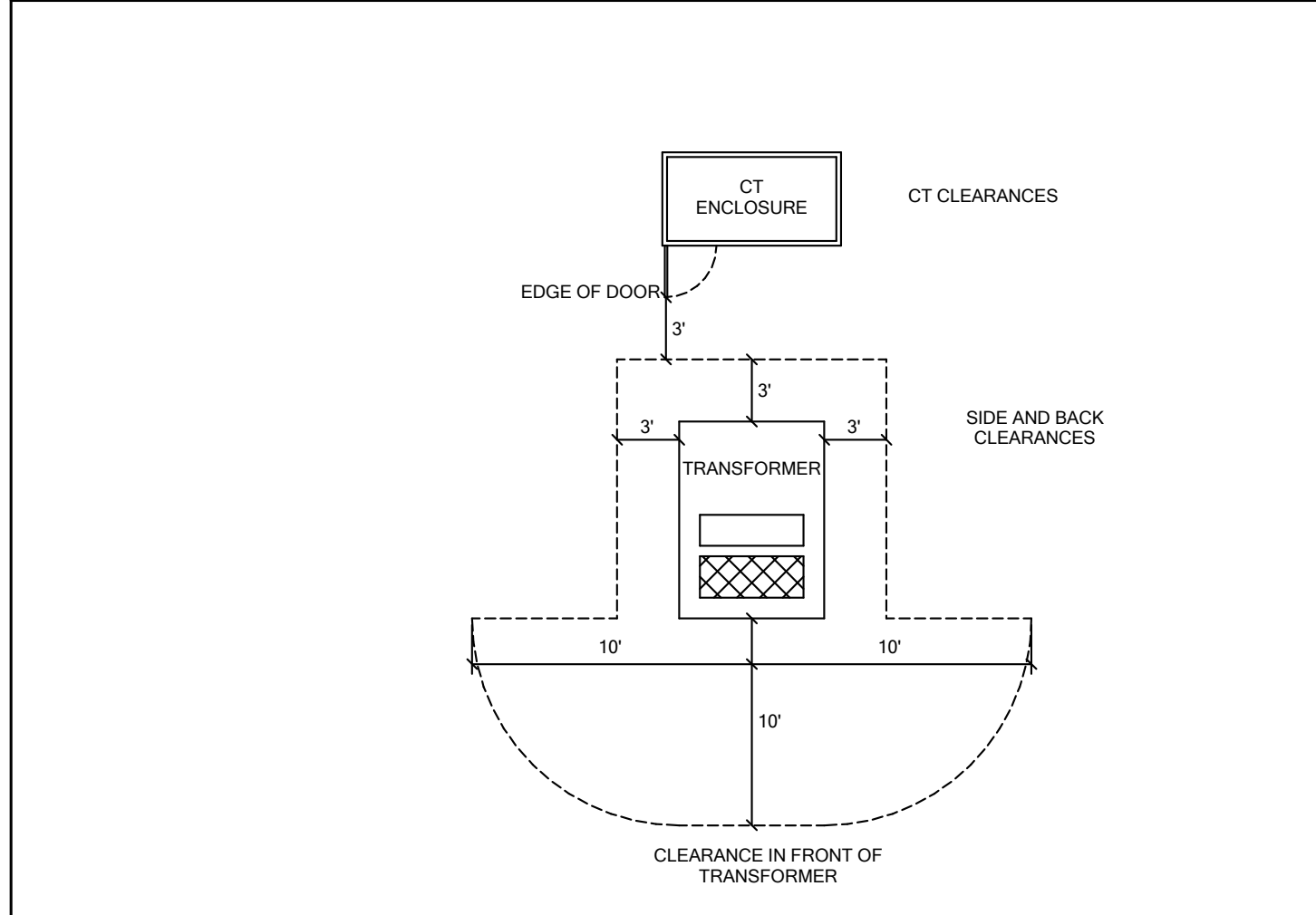
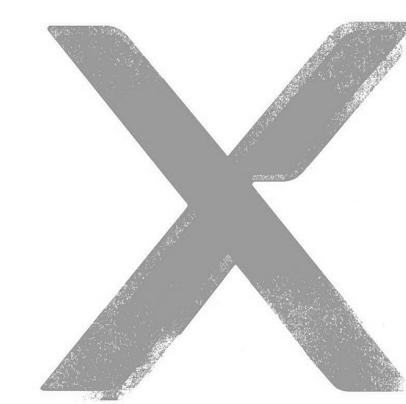
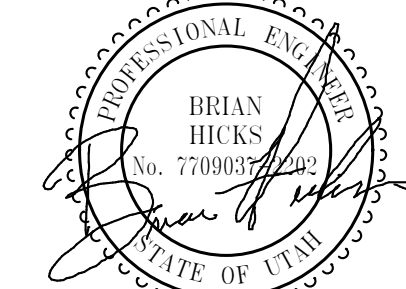


DIAGRAM Q014 TRANSFORMER/CT ENCLOSURE LAYOUT (RMP) NTS



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# Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJ. #: 17179  
CHECKED BY: Checker  
DRAWN BY: Author  
DATE: 06.08.18

ELECTRICAL DIAGRAMS

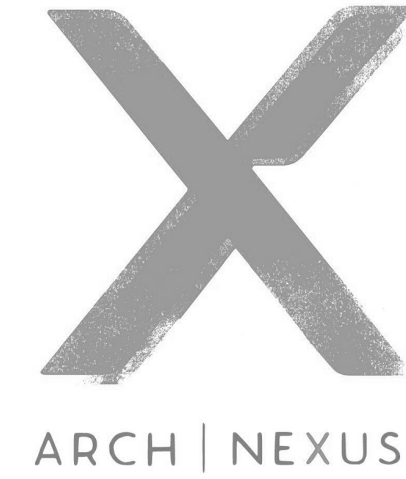


AUDIOVISUAL SYMBOLS, SCHEDULES & NOTES																																																																																																	
ROUGH-IN SCHEDULE					CABLE AND CONDUIT SCHEDULE																																																																																												
<p>NOTES:</p> <p>1. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISHED FLOOR.</p> <p>2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.</p> <p>3. REFER TO SPECIFICATIONS FOR CUSTOM ROUGH-IN REQUIREMENTS.</p> <p>4. STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS.</p> <p>5. ROUGH-IN TO BE HORIZONTAL.</p> <p>6. ROUGH-IN TO BE INSTALLED ABOVE ACCESSIBLE CEILING.</p> <p>7. ROUGH-IN TO BE INSTALLED ABOVE CEILING.</p> <p>8. CABLE FROM DEVICE TO BE HOMERUN TO DESTINATION WITHOUT SPLICES.</p> <p>9. ABOVE TABLE/COUNTER MOUNTED DEVICE.</p> <p>10. REFER TO MANUFACTURER'S RECOMMENDED CABLE REQUIREMENTS FOR EXACT CABLE REQUIRED.</p> <p>* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.</p>					<p>NOTES:</p> <p>1. APPROVED EQUALS FROM OTHER MANUFACTURERS ARE BELDEN, GEPCO/GENERAL, ICE AND LIBERTY CABLE.</p> <p>2. WHEN COMBINING CABLE TYPES OF THE SAME GROUP, THE TYPE WITH THE LARGEST CONDUIT REQUIREMENT DICTATES CONDUIT SIZE.</p> <p>3. CONDUIT REQUIREMENTS ARE MINIMUM, UNLESS OTHERWISE NOTED.</p> <p>4. ALL CATEGORY CABLE SHALL BE TESTED TO ANSI/TIA-568-C AND IEEE 802.3aa STANDARDS USING A LEVEL IIIa TESTER.</p> <p>5. CABLE QUANTITY INDICATED ON DRAWINGS SHOWN ON FINAL RUN. IF NOT NOTED PROVIDE CABLING FOR SINGLE DEVICE.</p> <p>6. # INDICATES NUMBER OF CABLES WITHIN THE SAME RUN.</p>																																																																																												
<p>ROUGH-IN IDENTIFIER:</p> <p>A0: 4" SQUARE 2 1/8" DEEP JUNCTION BOX.</p> <p>A1: 4" SQUARE 2 1/8" DEEP JUNCTION BOX WITH SINGLE GANG MUDRING.</p> <p>A1E: 4" SQUARE 2 1/8" DEEP JUNCTION BOX WITH 1 1/2" EXTENSION WITH SINGLE GANG MUDRING.</p> <p>A2: 4" SQUARE 2 1/8" DEEP JUNCTION BOX WITH DOUBLE GANG MUDRING.</p> <p>A2E: 4" SQUARE 2 1/8" DEEP JUNCTION BOX WITH 1-1/2" EXTENSION WITH DOUBLE GANG MUDRING.</p> <p>A3: 8 5/8" x 4 1/2" x 1 5/8" JUNCTION BOX WITH 3-GANG MUDRING.</p> <p>A4: 10 7/16" x 4 1/2" x 1 5/8" JUNCTION BOX WITH 4-GANG MUDRING.</p> <p>B1E: 4 11/16" SQUARE JUNCTION BOX WITH 1 1/2" EXTENSION WITH SINGLE GANG MUDRING.</p> <p>B2E: 4 11/16" SQUARE JUNCTION BOX WITH 1 1/2" EXTENSION WITH DOUBLE GANG MUDRING.</p> <p>C1: 12" x 12" x 4" JUNCTION BOX WITH TRIM RING AND GROMMET.</p> <p>D1: HUBBELL - HBL260 WITH SINGLE GANG MUD RING.</p> <p>D2: HUBBELL - HBL260 WITH DOUBLE GANG MUD RING.</p> <p>D3: HUBBELL - HBL263 WITH TRIPLE GANG MUD RING.</p>					<p>CABLE TYPE</p> <p>DESCRIPTION</p> <p>CONDUIT REQUIREMENTS</p> <p>MANUFACTURER</p> <p>MODEL NUMBER</p> <p>CABLE GROUP</p>																																																																																												
<p>(#)AT</p> <p>ANTENNA, COAXIAL RGX</p> <p>3/4" CONDUIT = (4) CABLES 1" CONDUIT = (7) CABLES</p> <p>WEST PENN</p> <p>807</p> <p>5</p>					<p>(#)CT</p> <p>CONTROL</p> <p>1" CONDUIT = (7) CABLES 1 1/4" CONDUIT = (12) CABLES</p> <p>WEST PENN</p> <p>77350</p> <p>5</p>																																																																																												
<p>(#)HD</p> <p>HDMI &lt; 25'</p> <p>1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES</p> <p>WEST PENN</p> <p>CN-HD700-XX</p> <p>5</p>					<p>(#)HD</p> <p>HDMI &gt; 25'</p> <p>1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES</p> <p>EXTRON</p> <p>HDMI Proxx</p> <p>5</p>																																																																																												
<p>(#)LA</p> <p>LINE LEVEL, 22 AWG</p> <p>3/4" CONDUIT = (14) CABLES 1" CONDUIT = (23) CABLES</p> <p>WEST PENN</p> <p>291</p> <p>3</p>					<p>(#)MA</p> <p>MICROPHONE, 22 AWG</p> <p>3/4" CONDUIT = (14) CABLES 1" CONDUIT = (23) CABLES</p> <p>WEST PENN</p> <p>291</p> <p>2</p>																																																																																												
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<p>(#)RG11</p> <p>RG-11 COAXIAL CABLE</p> <p>1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (6) CABLES</p> <p>WEST PENN</p> <p>25821</p> <p>5</p>					<p>(#)S12</p> <p>SPEAKER, 12 AWG</p> <p>1" CONDUIT = (3) CABLES 1 1/2" CONDUIT = (7) CABLES 2" CONDUIT = (11) CABLES</p> <p>WEST PENN</p> <p>227</p> <p>4</p>																																																																																												
<p>(#)S16</p> <p>SPEAKER, 16 AWG</p> <p>1" CONDUIT = (10) CABLES 1 1/4" CONDUIT = (17) CABLES</p> <p>WEST PENN</p> <p>225</p> <p>4</p>					<p>(#)SFB</p> <p>SINGLE MODE FIBER OPTIC</p> <p>3/4" CONDUIT = (10) CABLES 1" CONDUIT = (17) CABLES</p> <p>PER SPEC 27 1500</p> <p>PER SPEC 27 1500</p> <p>1</p>																																																																																												
<p>(#)STP</p> <p>SHIELDED TWISTED PAIR, CAT 6</p> <p>1" CONDUIT = (4) CABLES 1 1/4" CONDUIT = (8) CABLES</p> <p>WEST PENN</p> <p>4246AF</p> <p>5</p>					<p>(#)UTP</p> <p>UN-SHIELDED TWISTED PAIR</p> <p>1" CONDUIT = (9) CABLES 1 1/4" CONDUIT = (15) CABLES</p> <p>WEST PENN</p> <p>4246</p> <p>5</p>																																																																																												
<p>(#)VG</p> <p>HIGH RESOLUTION VIDEO</p> <p>1" CONDUIT = (1) CABLES 1 1/4" CONDUIT = (4) CABLES</p> <p>WEST PENN</p> <p>6CRGB2P</p> <p>5</p>																																																																																																	
<p>ABBREVIATIONS INDEX</p> <table><tr><th>ABBREV.</th><th>DESCRIPTION</th><th>ABBREV.</th><th>DESCRIPTION</th><th>ABBREV.</th><th>DESCRIPTION</th></tr><tr><td>#</td><td>NUMBER</td><td>(E)</td><td>EXISTING</td><td>N/A</td><td>NOT APPLICABLE</td></tr><tr><td>AF</td><td>ABOVE FINISH FLOOR</td><td>FT</td><td>FOOT</td><td>NIC</td><td>NOT IN CONTRACT</td></tr><tr><td>ARCH</td><td>ARCHITECTURE</td><td>GND</td><td>GROUND</td><td>NTS</td><td>NOT TO SCALE</td></tr><tr><td>AUX</td><td>AUXILIARY</td><td>IG</td><td>ISOLATED GROUND</td><td>(R)</td><td>RELOCATE</td></tr><tr><td>AWG</td><td>AMERICAN WIRE GAUGE</td><td>IN</td><td>INCH</td><td>SPEC</td><td>SPECIFICATIONS</td></tr><tr><td>BC</td><td>BARE COPPER</td><td>J-BOX</td><td>JUNCTION BOX</td><td>SPKR</td><td>SPEAKER</td></tr><tr><td>C</td><td>CONDUIT</td><td>LTG</td><td>LIGHTING</td><td>TV</td><td>TELEVISION</td></tr><tr><td>CATV</td><td>CABLE TELEVISION</td><td>MEP</td><td>MECHANICAL, ELECTRICAL AND PLUMBING</td><td>TYP</td><td>TYPICAL</td></tr><tr><td>CLO</td><td>CEILING</td><td>MFG</td><td>MANUFACTURER</td><td>UG</td><td>UNDERGROUND</td></tr><tr><td>CNTR</td><td>CONTRACTOR</td><td>MAX</td><td>MAXIMUM</td><td>UPS</td><td>UNINTERRUPTED POWER SUPPLY</td></tr><tr><td>CU</td><td>COPPER</td><td>MIC</td><td>MICROPHONE</td><td>W</td><td>WATTS</td></tr><tr><td>C/W</td><td>COMPLETE WITH</td><td>MIN</td><td>MINIMUM</td><td>W/O</td><td>WITHOUT</td></tr><tr><td>DWG</td><td>DRAWING</td><td>MTG</td><td>MOUNTING</td><td></td><td></td></tr></table>										ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	#	NUMBER	(E)	EXISTING	N/A	NOT APPLICABLE	AF	ABOVE FINISH FLOOR	FT	FOOT	NIC	NOT IN CONTRACT	ARCH	ARCHITECTURE	GND	GROUND	NTS	NOT TO SCALE	AUX	AUXILIARY	IG	ISOLATED GROUND	(R)	RELOCATE	AWG	AMERICAN WIRE GAUGE	IN	INCH	SPEC	SPECIFICATIONS	BC	BARE COPPER	J-BOX	JUNCTION BOX	SPKR	SPEAKER	C	CONDUIT	LTG	LIGHTING	TV	TELEVISION	CATV	CABLE TELEVISION	MEP	MECHANICAL, ELECTRICAL AND PLUMBING	TYP	TYPICAL	CLO	CEILING	MFG	MANUFACTURER	UG	UNDERGROUND	CNTR	CONTRACTOR	MAX	MAXIMUM	UPS	UNINTERRUPTED POWER SUPPLY	CU	COPPER	MIC	MICROPHONE	W	WATTS	C/W	COMPLETE WITH	MIN	MINIMUM	W/O	WITHOUT	DWG	DRAWING	MTG	MOUNTING						
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<p>AUDIOVISUAL GENERAL NOTES</p> <p>1. ET SHEETS SHOW WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.</p> <p>2. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM ROUGH-IN. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COORDINATION.</p> <p>3. BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.</p> <p>4. AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BEGINNING WORK.</p> <p>5. THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.</p> <p>6. NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT.</p> <p>7. WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURERS' INSTALLATION GUIDELINES.</p> <p>8. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.</p> <p>9. COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL, REFLECTED CEILING PLANS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.</p> <p>10. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.</p> <p>11. INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND INDUSTRY BEST PRACTICES. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.</p> <p>12. ALL TWISTED-PAIR (UTP, FUTP, UTPF, SFTP) CATEGORY TYPE CABLEING SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS.</p> <p>13. ALL HDBaseT SIGNAL CABLE, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568B. ALL HDBaseT SIGNAL CABLEING SHALL BE SHIELDED/POIL (SFTP) CATEGORY TYPE CABLE.</p> <p>14. CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF EQUIPMENT.</p> <p>15. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.</p> <p>16. PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.</p> <p>17. ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC), IEC 1000-5-2, ANSI-SID-807-A.</p> <p>18. ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.</p> <p>19. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.</p> <p>20. FILL ALL UNUSED RACK SPACE WITH BLANK PANELS UNLESS OTHERWISE NOTED.</p> <p>21. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS ADDRESSED IN THE DOCUMENTS.</p>																																																																																																	
<p>CABLING GROUPS AND CONDUIT SEPARATION SCHEDULE</p> <p>AUDIO AND VIDEO WIRING TYPES:</p> <p>AUDIO AND VIDEO SYSTEM WIRING IS DIVIDED INTO WIRING GROUPS ACCORDING TO THEIR NOMINAL LEVELS:</p> <table><tr><th>GROUP</th><th>WIRING TYPE</th></tr><tr><td>GROUP 1</td><td>FIBER OPTIC CABLE</td></tr><tr><td>GROUP 2</td><td>0 mv TO 100 mv SIGNALS, EXAMPLE: MICROPHONE LEVEL SIGNAL</td></tr><tr><td>GROUP 3</td><td>100 mv TO 10 V SIGNALS, EXAMPLE: LINE-LEVEL SIGNAL</td></tr><tr><td>GROUP 4</td><td>10 V TO 70 V SIGNALS, EXAMPLE: SPEAKER LEVEL SIGNAL</td></tr><tr><td>GROUP 5</td><td>CONTROL, DIGITAL CIRCUITS, DATA AND VIDEO</td></tr></table> <p>NOTE: GROUPS LISTED ABOVE SHALL NEVER BE COMBINED WITHIN THE SAME CONDUIT</p> <p>AUDIO AND VIDEO CONDUIT SEPARATION</p> <p>MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT AUDIO AND VIDEO GROUPS IS AS FOLLOWS:</p> <table><tr><th>GROUP</th><th>GROUP 1</th><th>GROUP 2</th><th>GROUP 3</th><th>GROUP 4</th><th>GROUP 5</th></tr><tr><td>GROUP 1</td><td>ADJACENT</td><td>ADJACENT</td><td>ADJACENT</td><td>ADJACENT</td><td>ADJACENT</td></tr><tr><td>GROUP 2</td><td>ADJACENT</td><td>ADJACENT</td><td>6"</td><td>12"</td><td>12"</td></tr><tr><td>GROUP 3</td><td>ADJACENT</td><td></td><td>6"</td><td>ADJACENT</td><td>12"</td></tr><tr><td>GROUP 4</td><td>ADJACENT</td><td>12"</td><td>12"</td><td>ADJACENT</td><td>6"</td></tr><tr><td>GROUP 5</td><td>ADJACENT</td><td>12"</td><td>6"</td><td>6"</td><td>ADJACENT</td></tr></table> <p>NOTE: NINETY DEGREE CROSSING IN CLOSE PROXIMITY IS PERMITTED.</p> <p>ELECTRICAL CONDUIT SEPARATION</p> <p>MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO AND VIDEO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS AS FOLLOWS:</p> <table><tr><th></th><th>GROUP 1</th><th>GROUP 2</th><th>GROUP 3</th><th>GROUP 4</th><th>GROUP 5</th></tr><tr><td>277/480V AC CIRCUIT</td><td>ADJACENT</td><td>24"</td><td>24"</td><td>24"</td><td>24"</td></tr><tr><td>120/208V AC CIRCUIT</td><td>ADJACENT</td><td>24"</td><td>12"</td><td>12"</td><td>24"</td></tr></table> <p>NOTE: CONDUITS SHALL NOT RUN MORE THAN 20 FEET IN PARALLEL WITHIN THE GIVEN DISTANCES ABOVE.</p>										GROUP	WIRING TYPE	GROUP 1	FIBER OPTIC CABLE	GROUP 2	0 mv TO 100 mv SIGNALS, EXAMPLE: MICROPHONE LEVEL SIGNAL	GROUP 3	100 mv TO 10 V SIGNALS, EXAMPLE: LINE-LEVEL SIGNAL	GROUP 4	10 V TO 70 V SIGNALS, EXAMPLE: SPEAKER LEVEL SIGNAL	GROUP 5	CONTROL, DIGITAL CIRCUITS, DATA AND VIDEO	GROUP	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 1	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	GROUP 2	ADJACENT	ADJACENT	6"	12"	12"	GROUP 3	ADJACENT		6"	ADJACENT	12"	GROUP 4	ADJACENT	12"	12"	ADJACENT	6"	GROUP 5	ADJACENT	12"	6"	6"	ADJACENT		GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	277/480V AC CIRCUIT	ADJACENT	24"	24"	24"	24"	120/208V AC CIRCUIT	ADJACENT	24"	12"	12"	24"																						
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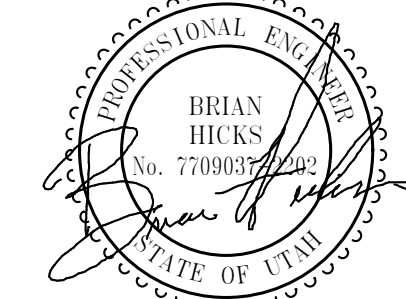


SHEET KEYNOTES	
T1	COORDINATE WITH OWNER ON EXACT LOCATION OF DEVICES.
T2	LOCATE EQUIPMENT CABINET ON SOUTH WALL. COORDINATE WITH OWNER ON EXACT LOCATION.
T4	MOUNT DEVICES AT 24" A.F.F.
T5	ROOM SCHEDULING SOFTWARE PROVIDED BY OWNER.
T6	REFER TO V104 FOR TABLE TOP DEVICES AND CONNECTIONS. HOMERUN (2) HDMI AND (2) DATA CABLES TO THE EQUIPMENT CABINET R2.
T9	COORDINATE WITH OWNER ON PLACEMENT AND ALIGNMENT OF PROJECTOR AND WHITE BOARD PAINT.



Architectural NEXUS, Inc.  
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Salt Lake City, Utah 84109  
T 801.924.5000  
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NAC Equestrian Center Expansion  
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# Date Revision

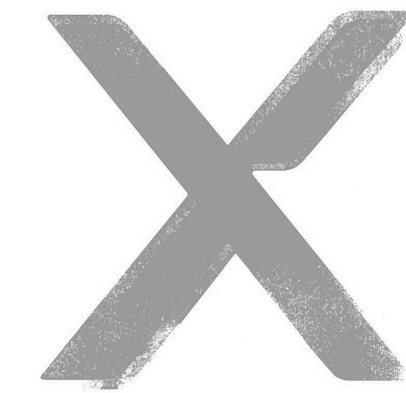
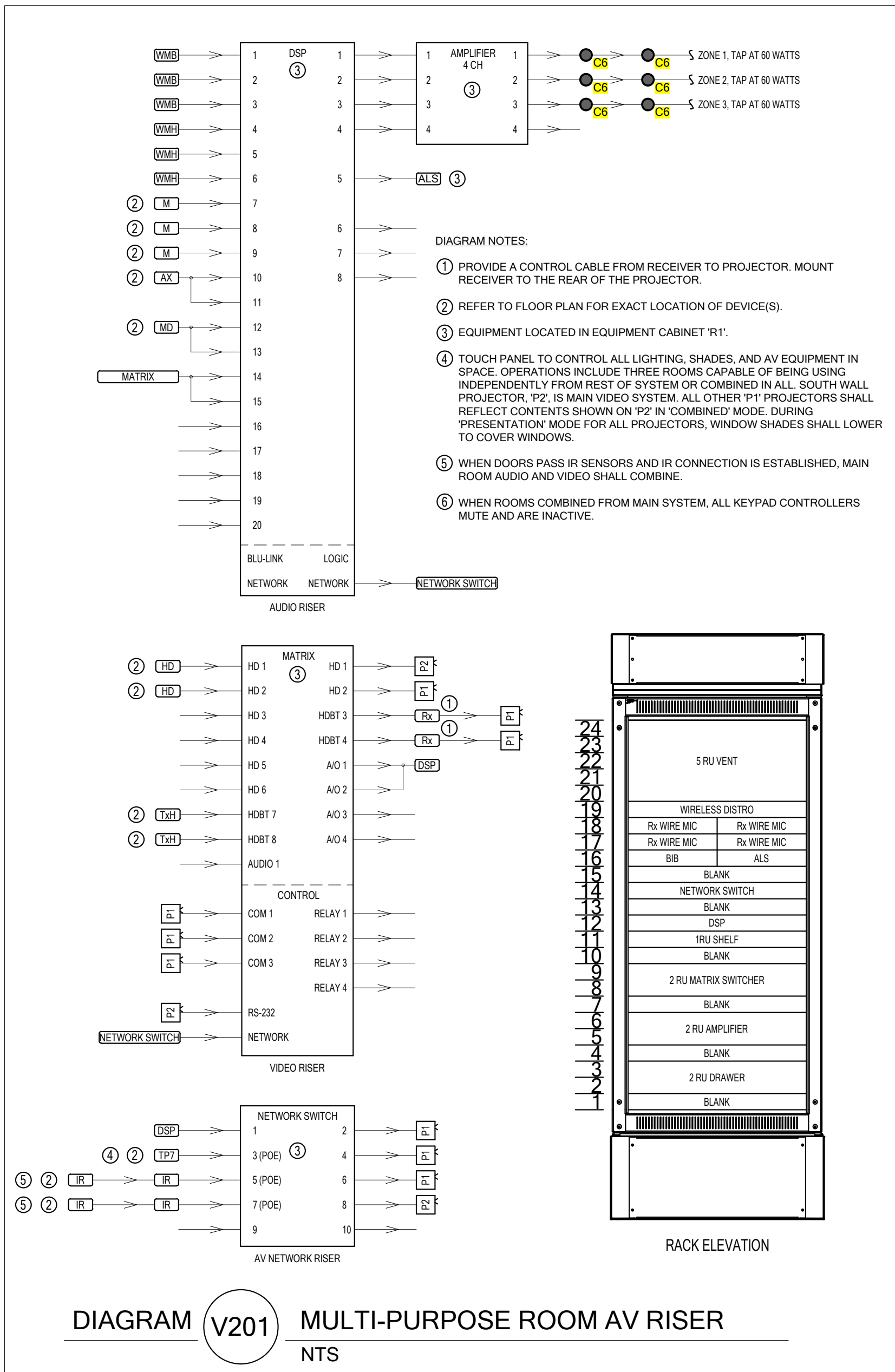
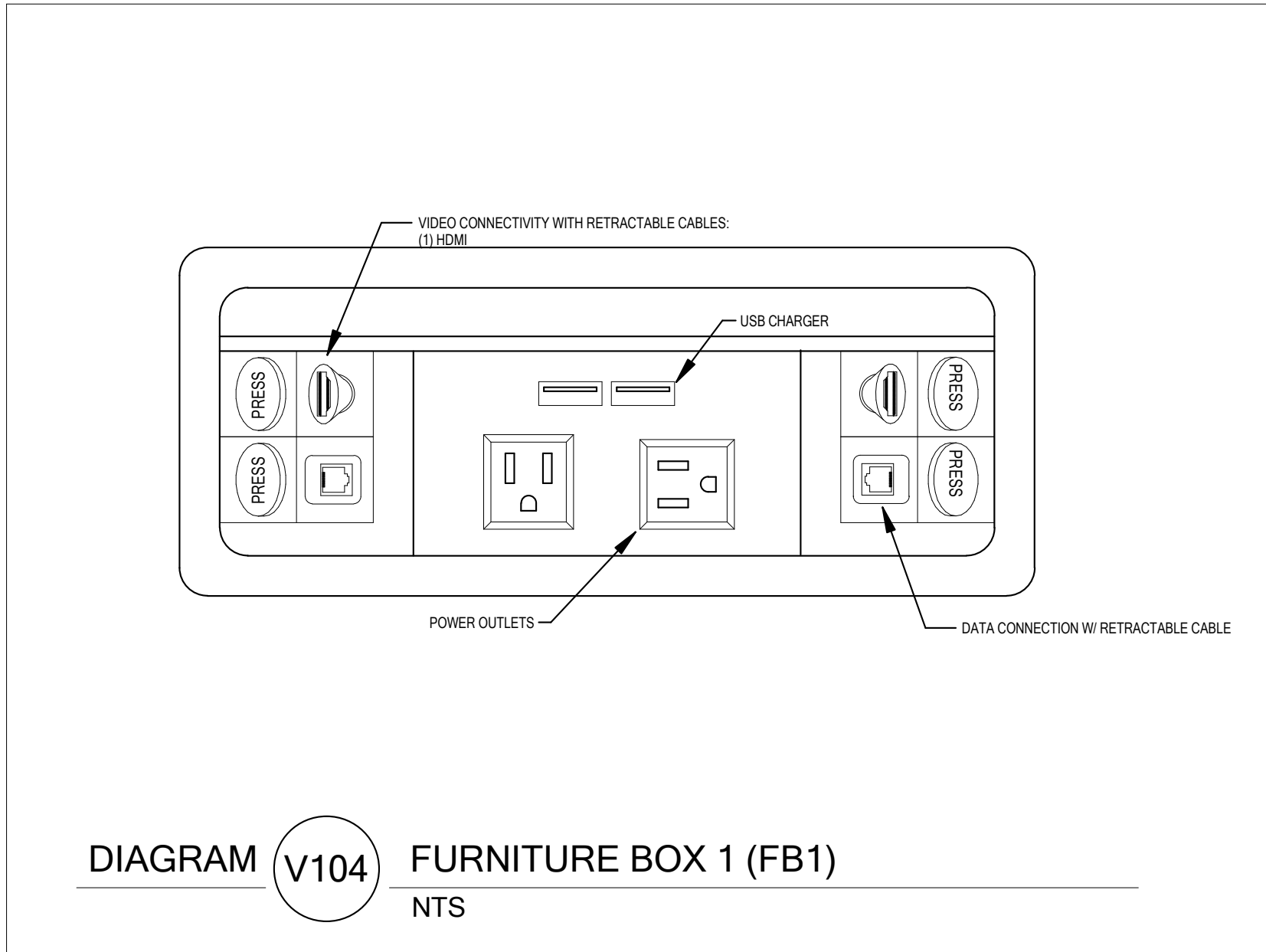
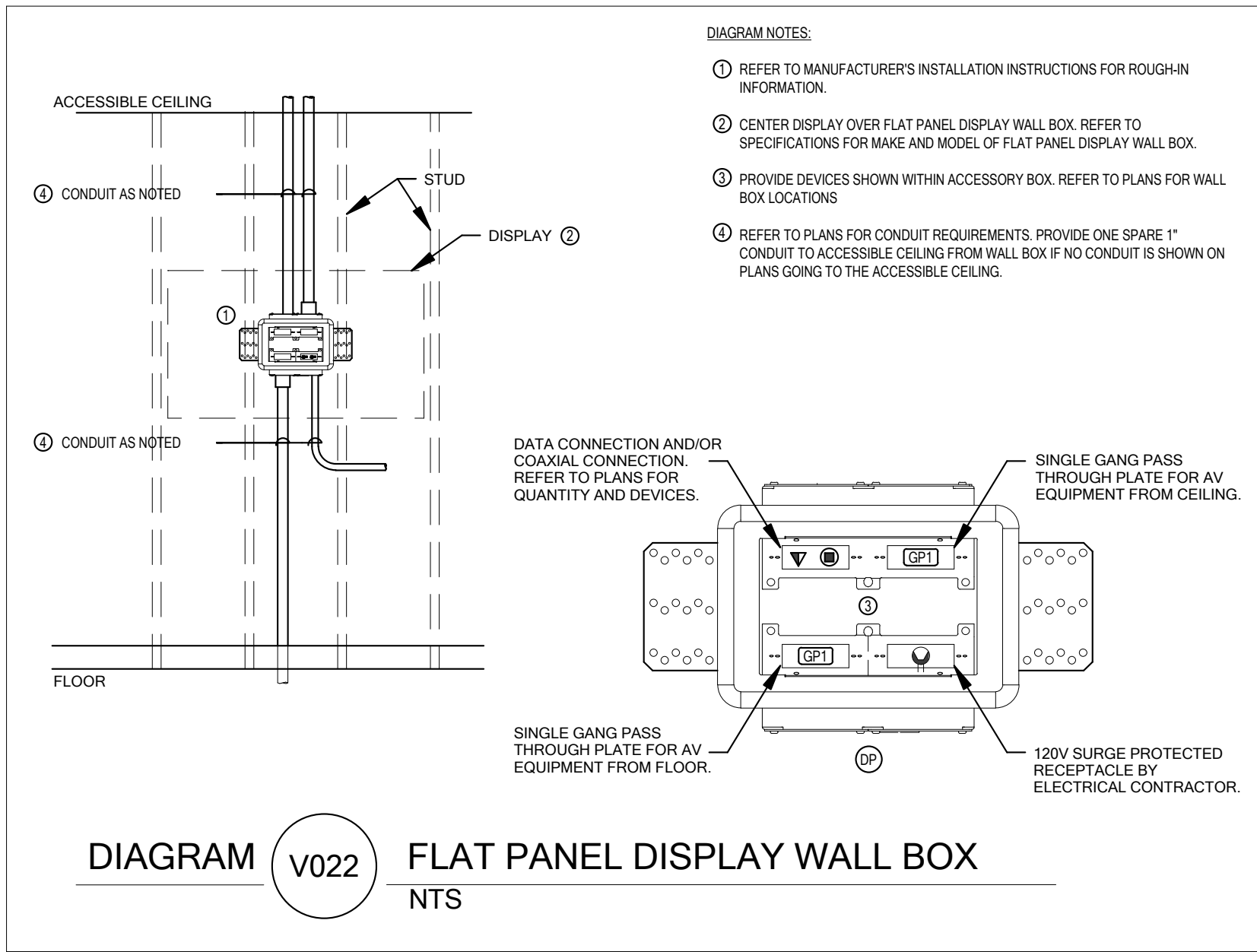
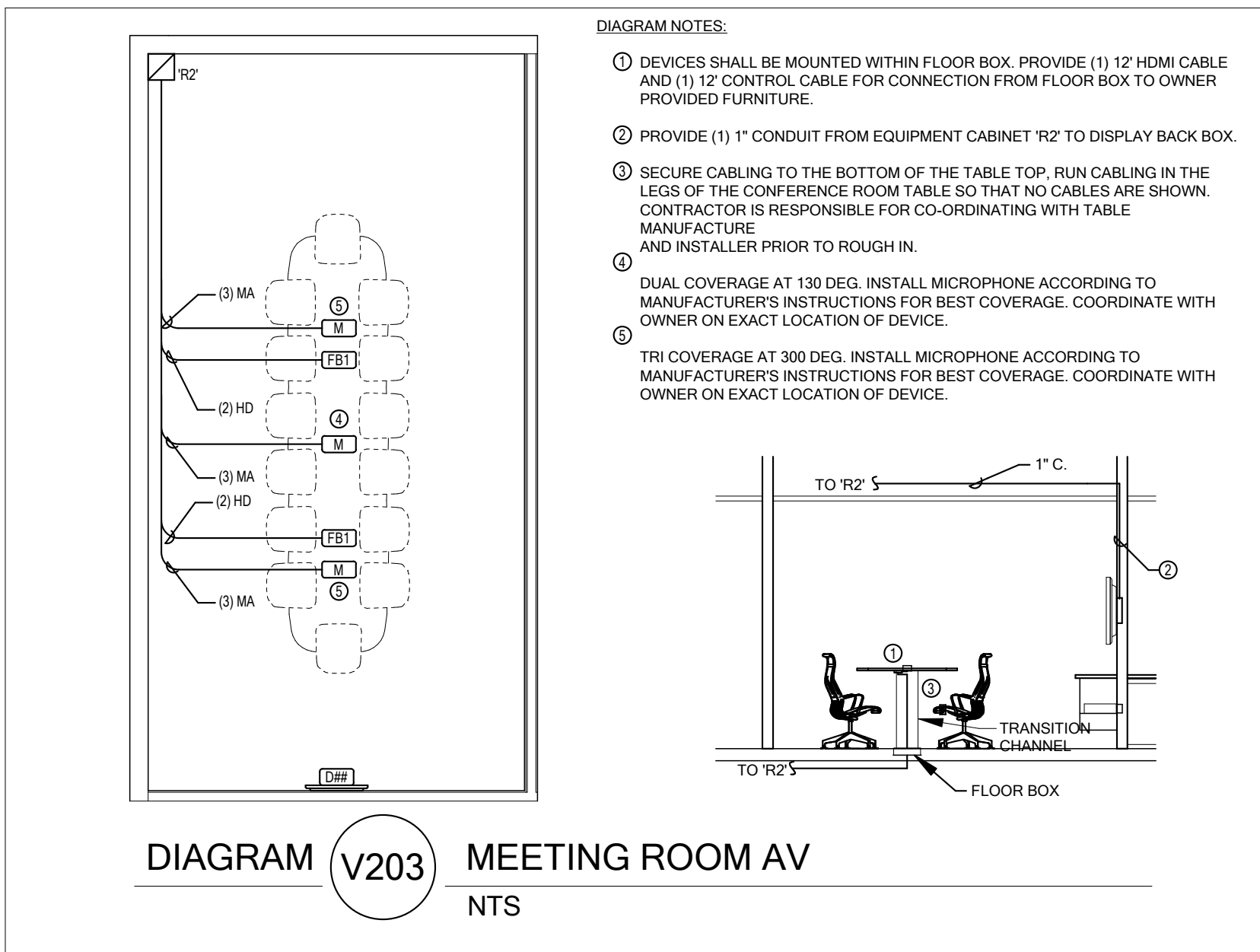
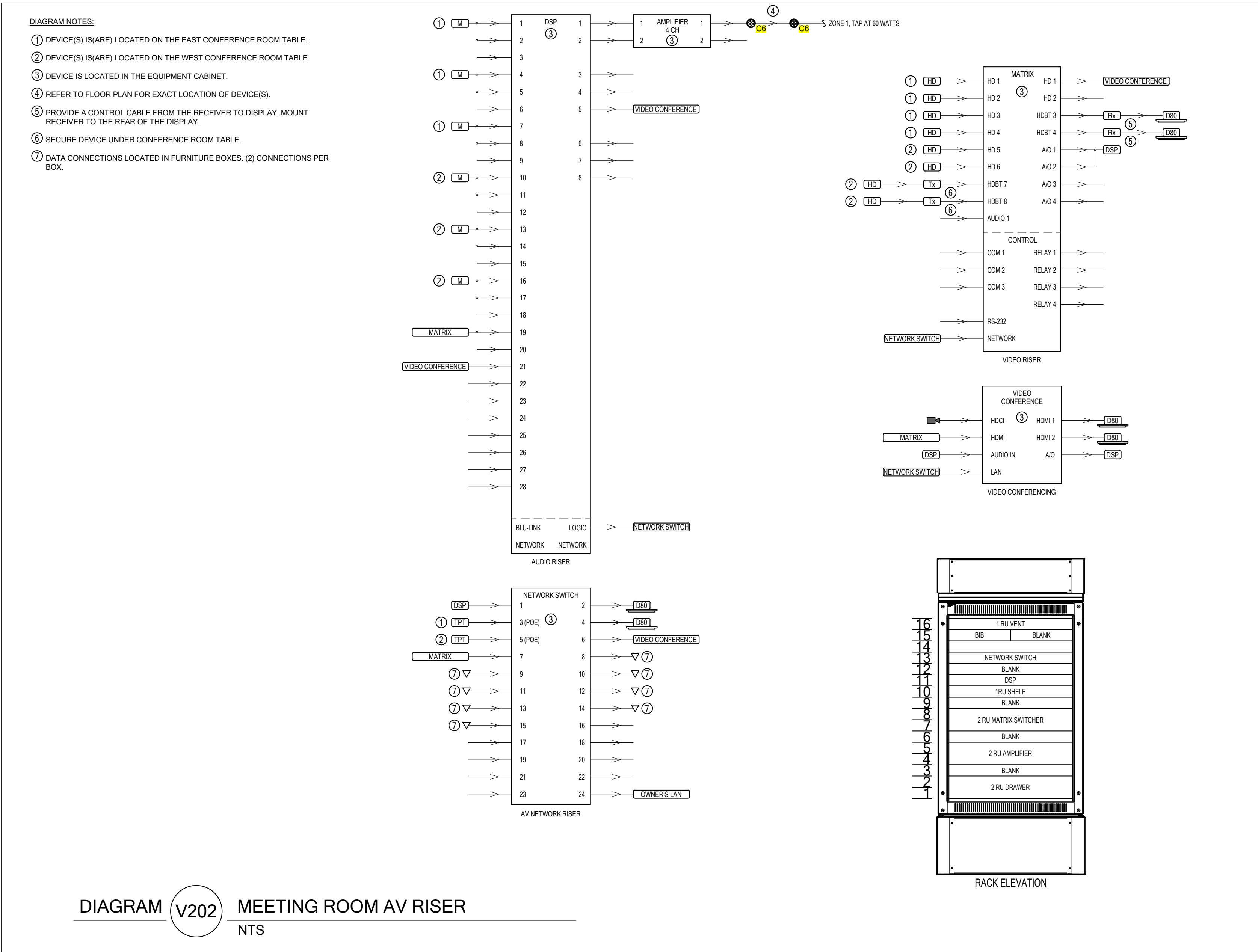
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## LEVEL 01 AV PLAN

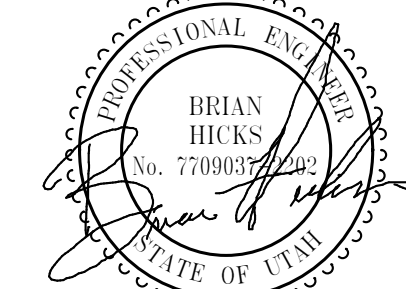
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AUDIOVISUAL DIAGRAMS

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