



HUMANITIES AND SOCIAL SCIENCES BUILDING

PHASE IV - FINISH OUT

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FIRE PROTECTION

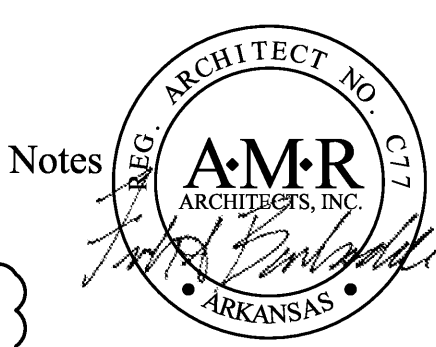
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PROGRESS PRINT - THRU ASI-23 / PR28
 SEPTEMBER 16, 2014

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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: COVER SHEET

Sheet Number: _____

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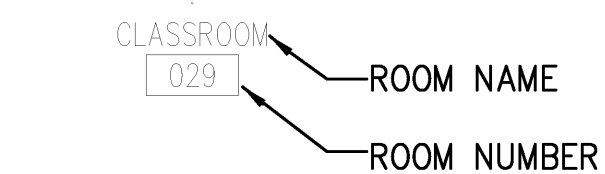
COVER SHEET

AO.0

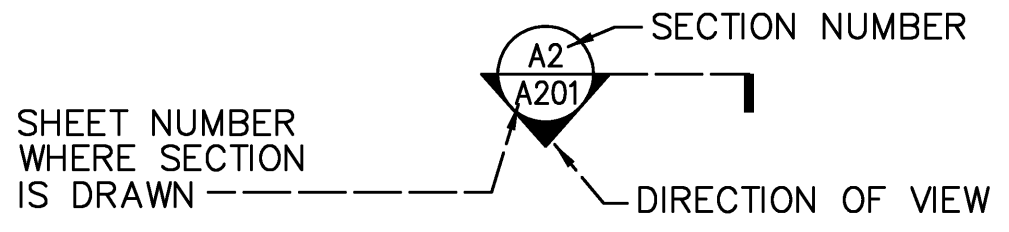
ACC	ALLOY-COATED COPPER	EF	EXHAUST FAN	ID	INSIDE DIAMETER	P	POLE	S&R	SHELF AND ROD	UC	UNDERCUT
ACCES	ACCESSIBLE	EHD	ELECTRIC HAND DRYER	IN	INCH	PB	PULLBOX	SC	SPECIAL COATING, SOLID CORE	UG	UNDERGROUND
ACOUS	ACOUSTICAL	EJFS	EXTERIOR INSULATION & FINISH SYSTEM	I.E.	INCH THAT IS	PCC	PRECAST CONCRETE	SCI	SCIENCE	UH	UNIT HEATER
ALUM	ALUMINUM	EJ	EXPANSION JOINT	INCAN	INCANDESCENT	PD	PRESSURE DROP	SF	SAFETY FEET	UL	UNFINISHED
AHU	AIR HANDLING UNIT	EL	ELEVATION	INSTR	INSTRUCTIONAL	PH	PHASE	SG	SAFETY GLASS	UNFIN	UNFINISHED
AP	ACOUSTIC PANELS	ELEC	ELECTRICAL	INSUL	INSULATE(E, D, ION)	PIL	PILASTER	SHT	SHEET	UNO	UNLESS NOTED OTHERWISE
ASSM	ASSEMBLY	ELEV	ELEVATOR OR ELEVATION	INT	INTERIOR	PL	PLATE	SIM	SIMILAR	UPS	UNINTERRUPTABLE POWER SUPPLY
		EMER	EMERGENCY	INV	INVERT	PLAM	PLASTIC LAMINATE	SLD	SEALED	UTIL	UTILITY
BD	BOARD	ENCL	ENCLOSURE(SURE)			PLAS	PLASTER	SOG	(CONCRETE) SLAB ON GRADE	VAR	VARIABLES
BIO	BIOLOGY	EP	ELECTRICAL PANEL BOARD	JIB	JUNCTION BOX	PLMB	PLUMBING	SP	SUMP PUMP	VB	VINYL BASE
BM	BEAM	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	JC	JANITOR'S CLOSET	PLYWD	PLYWOOD	SP	SUMP PUMP	VCT	VINYL COMPOSITION TILE
BL	BORROWED LIGHT	EPX	EPOXY FLOORING	JT	JOINT	PNL	PANEL	SPEC	SPECIFICATIONS	VEN	VENEER
BLKNG	BLOCKING	EQ	EQUAL	JTS	JOINTS	POLY	POLYISOCYANURATE	SQ	SQUARE	VERT	VERTICAL
BOT	BOTTOM	EQUIP/EQPT	EQUIPMENT	KS	KNEE SPACE, KICK SPACE	PS	PROJECTION SCREEN	SST	STAINLESS STEEL	VEST	VESTIBULE
BRCKTS	BRACKETS	ETR	EXISTING TO REMAIN	L	LENGTH, LONG (STRUCTURAL SHAPE ANGLE IN THE CONTEXT OF STRUCTURAL DRAWINGS)	PSF	POUNDS PER SQUARE FOOT	ST	STORM SEWER, STONE, STAIN	VIF	VERIFY IN FIELD
BRC	BEARING	ETRL	EXISTING TO BE RELOCATED			PT	PRESSURE TREATED	STD	STANDARD	VIN	VINYL
BRK	BRICK	EW	EACH WAY			PTD	PAINT(ED)	STL	STEEL	VT	VAPOR TIGHT
BRKT	BRACKET	EWC	ELECTRIC WATER COOLER			PTN	PARTITION	STOR	STORAGE	VTR	VENT THROUGH ROOF
BSMT	BASEMENT	EXH	EXHAUST			PVC	POLYVINYL CHLORIDE	STRUC	STRUCTURAL	VWC	VINYL WALL COVERING
BUR	BUILT-UP ROOF	EXIST	EXISTING			QT	QUARRY TILE	SUSP	SUSPENDED SYSTEMS		
		EXP	EXPANSION			QTY	QUANTITY			W/D	WASHER/DRYER
C	CONDUIT	EXT	EXTERIOR							W	WIDE, WIDTH, WATER
CAB	CABINET									W/	WITH
CAT	CATALOG	FAI	FRESH AIR INTAKE							W/O	WITHOUT
CB	CATCH BASIN	FAB	FABRIC			R	RISER, RADIUS			W	STRUCTURAL SHAPE WIDE FLANGE IN THE CONTEXT OF STRUCTURAL DRAWINGS
CB	CHALKBOARD	FB	FOILBACKED			RAD	RADIUS			WC	WATER CLOSET
CFCI	CONTR FURNISH, CONTR INSTALL	FD	FLOOR DRAIN, FIRE DAMPER							WD	WOOD
CFL	COMPACT FLUORESCENT	FDN	FOUNDATION			RD	ROOF DRAIN			WH	WALL HYDRANT
CHEM	CHEMISTRY	FE	FIRE EXTINGUISHER			REFG	REFRIGERAT(OR, ANT, ATION)			WP	WATERPROOF / WORKING POINT
CJ	CAST IRON	FEC	FIRE EXTINGUISHER CABINET			REINF	REINFORCE(ED, MENT)			WSC	WAINSCOT
CIPC	CAST IN PLACE CONCRETE	FF	FINISHED FLOOR			RESIL	RESILIENT			WT	WEIGHT
CJP	CONTROL JOINT	FH	FIRE HYDRANT			REQD	REQUIRED			WTR	WATER
CLG	CEILING	FIN	FINISH(ED)			RLE	RELOCATED EXISTING			WWF	WELDED WIRE FABRIC
CLL	CONTRACT LIMIT LINE	FL	FLOOR			RM	ROOM				
CLOS,CLST	CLOSET	FLM	FLAMMABLE								
CLR	CLEAR(ANCE)	FLUOR	FLUORESCENT			N	NORTH				
CMU	CONCRETE MASONRY UNIT	FO	FIBER OPTIC			NIC	NOT IN CONTRACT				
CO	CLEAN OUT	FOB	FACE OF BRICK			NO	NUMBER				
COL	COLUMN	FOC	FACE OF CONCRETE			NOM	NOMINAL				
COM	COMMUNICATIONS	FP	FILLER PANEL, FIRE PROTECTION			NTS	NOT TO SCALE				
CONC	CONCRETE	FRT	FIRE RETARDANT TREAT(ED, MENT)			OA	OVERALL				
COND	CONDENS(ATE, ER, ING, ATION)	FT	FEET, FOOT, FULL TIME			OC	ON CENTER				
CONF	CONFERENCE	FS	FLOOR SINK			OD	OUTSIDE DIAMETER				
CONN	CONNECTION	FSACCP	FLAT SEAM ALLOY-COATED COPPER			OFCI	OWNER FURNISHED, CONTRACTOR INSTALL				
CONST	CONSTRUCTION	FTG	FOOTING			OFOI	OWNER FURNISHED, OWNER INSTALL				
CONT	CONTINU(OUS, ATION)					OH	OVERHEAD				
CONTR	CONTRACTOR					OPG	OPENING				
COORD	COORDINATE					OPP	OPPOSITE				
CORR	CORRIDOR					OZ	OUNCE				
CPT	CARPET										
CRS	COURSE	HTR	HEATER								
CT	CERAMIC TILE	HVAC	HEATING, VENTILATING, AIR CONDITIONING								
CUST	CUSTOM	HW	HOT WATER								
CW	COLD WATER	HWD	HARDWOOD								
CWR	CHILLED WATER RETURN	HDWD	HARDWOOD								
CYL	CYLINDER	HWR	HOT WATER RETURN								
DET	DETAIL										
DRWR	DRAWER										

GENERAL NOTES

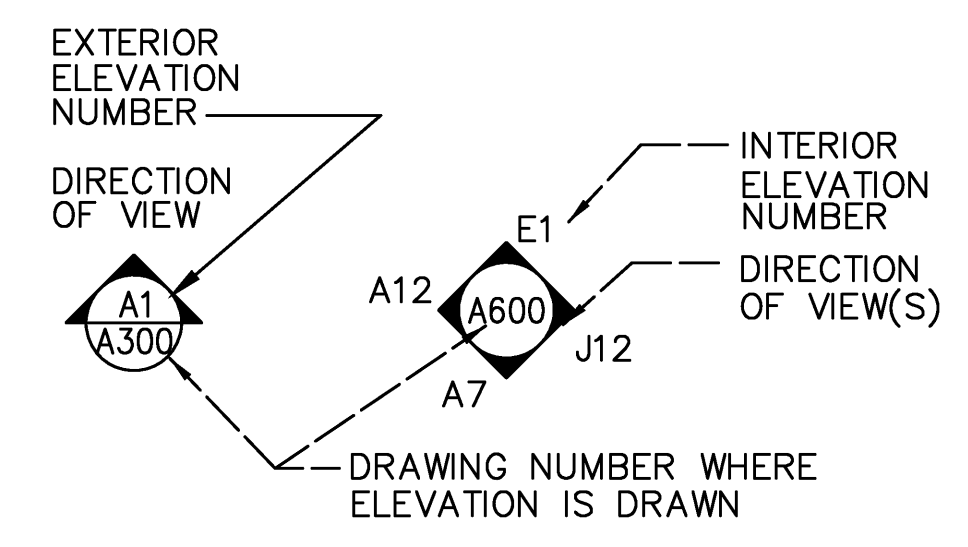
- ALL WORK IS NEW UNLESS NOTED OTHERWISE
- REFER TO SHEET AA0.2 FOR INTERIOR PARTITION TYPES
- CONTRACTOR SHALL VERIFY THAT ALL FIELD CONDITIONS AND DIMENSIONS ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- INDICATED DIMENSIONS ARE TO:
 - FACE OF MASONRY, CONCRETE,
 - CENTER LINE OF STUD WALL UNLESS OTHERWISE NOTED.
 - COLUMN CENTER LINES.
- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- CONSTRUCTION DOCUMENTS REFERENCE ALL DRAWINGS INCLUDED HEREIN AND SPECIFICATIONS. CONTRACTORS AND SUBCONTRACTORS MUST REVIEW ALL PORTIONS OF THE CONSTRUCTION DOCUMENTS IN PREPARING THEIR BIDS.
- ANY VARIATIONS FROM CONDITIONS SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT'S REPRESENTATIVE. AFFECTED WORK SHALL NOT PRECEED UNTIL CLARIFICATION HAS BEEN RECEIVED.
- APPROVED SHOP DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- ALL WORK IS TO CONFORM TO ALL CODES HAVING JURISDICTION: THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- USE ONLY NEW MATERIAL AND EQUIPMENT WITHOUT DEFECTS.
- EACH CONTRACTOR AND/OR SUBCONTRACTOR SHALL COORDINATE HIS OWN WORK WITH OTHER TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR OVERALL COORDINATION.
- ISSUES THAT CAN NOT BE RESOLVED WITHOUT CHANGING DIMENSIONS OF SPACES, CEILING HEIGHTS, ETC. SHALL BE REVIEWED WITH ARCHITECT PRIOR TO APPROVAL TO PROCEED.
- DISCREPANCIES AND OMISSIONS ON DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING FOR CLARIFICATION.
- SET ALL WORK STRAIGHT, PLUMB AND LEVEL OR WITH INDICATED SLOPE.
- ALL CONTRACTORS AND/OR SUBCONTRACTORS ARE TO USE THE APPROVED STANDARDS: A.I.S.C., FEDERAL, US, ETC., STANDARDS OF THEIR TRADES. ALL CONSTRUCTION SHALL BE PERFORMED TO THESE STANDARDS.
- ALL LUMBER IN CONTACT WITH CONCRETE MASONRY SHALL BE PRESSURE TREATED.
- IF AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE AND DOCUMENT IN HIS BID THE MORE EXPENSIVE METHOD OF WORK.
- THE GENERAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AS PER CONTRACT SPECIFICATIONS.
- LARGE SCALE DETAILS HAVE PRECEDENCE, HOWEVER, WORK INDICATED IN SMALL SCALE DRAWINGS SHALL NOT BE OMITTED. SIMILARLY, NOTES TAKE PRECEDENCE OVER SCHEDULES, PIPING AND WIRE DIAGRAMS. HOWEVER, WORK SHOWN OR DESCRIBED BY OTHER METHODS SHALL NOT BE OMITTED. ALL CONFLICTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
- CUTTING AND PATCHING TO BE PERFORMED BY EACH TRADE OR AS OTHERWISE NOTED.
- PROVIDE SOLID 2x PARTITION BLOCKING FOR ALL EQUIPMENT, CASEWORK AND ACCESSORIES, AS SHOWN IN DRAWINGS AND SPECIFICATIONS.
- ALL WALLS ARE PARALLEL OR PERPENDICULAR WITH PRINCIPAL GRIDS UNLESS OTHERWISE NOTED.
- DOOR OPENINGS SHALL BE 6" OFF ADJACENT WALL ON GROUND, FIRST, SECOND, THIRD AND PENTHOUSE FLOORS, UNLESS OTHERWISE NOTED.



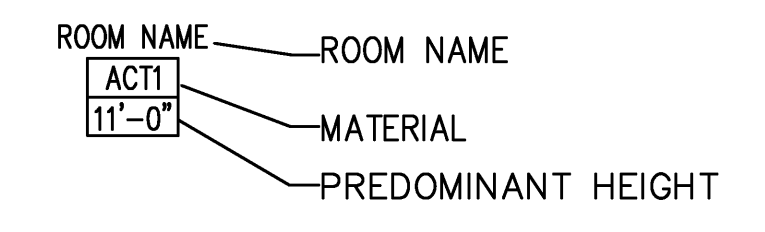
ROOM NUMBER INDICATION



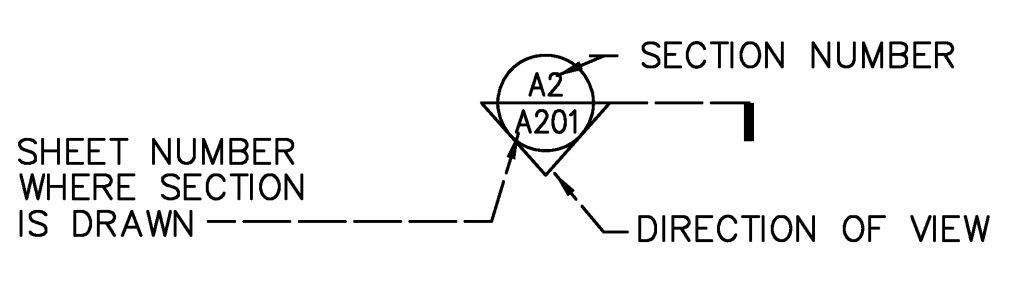
BUILDING SECTION INDICATION



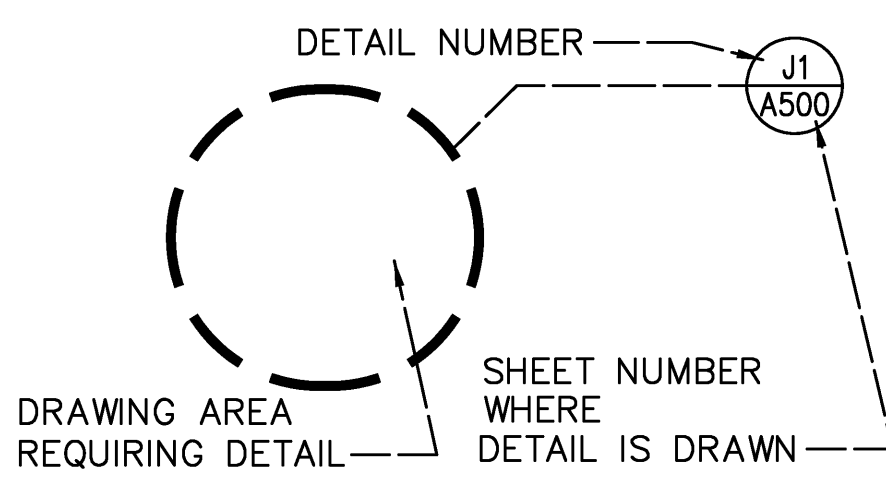
ELEVATION INDICATORS



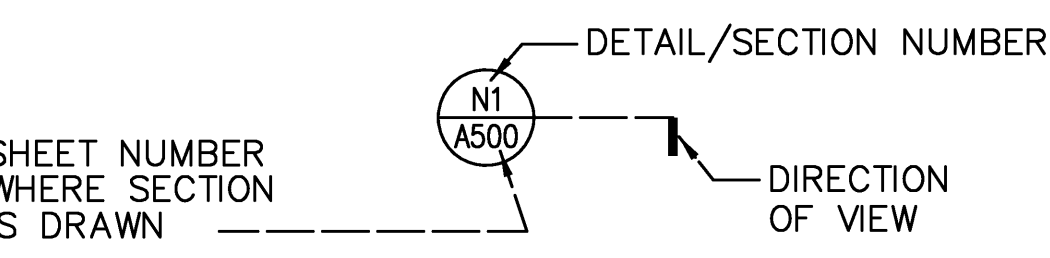
CEILING NUMBER INDICATION



WALL SECTION INDICATION



DETAIL INDICATION



DETAIL / SECTION INDICATION

MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL
- BRICK OR C.S.M.U.
- CONCRETE
- CONCRETE MASONRY UNITS
- GYPSUM WALLBOARD
- EXTERIOR GYPSUM WALLBOARD
- ROUGH WOOD BLOCKING
- WOOD SHIM
- FINISH WOOD
- PLYWOOD
- RIGID INSULATION
- BATT INSULATION
- STEEL
- STONE (CUT OR CAST)

SYMBOLS

- NEW PARTITION
- DOOR AND FRAME
- DOOR NUMBER (KEYED TO DOOR SCHEDULE)
- INTERIOR ALUMINUM WINDOW (KEYED FROM PLANS)
- EXTERIOR ALUMINUM WINDOW (KEYED FROM ELEVATIONS)
- PARTITION TYPE
- ROOM NUMBER

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



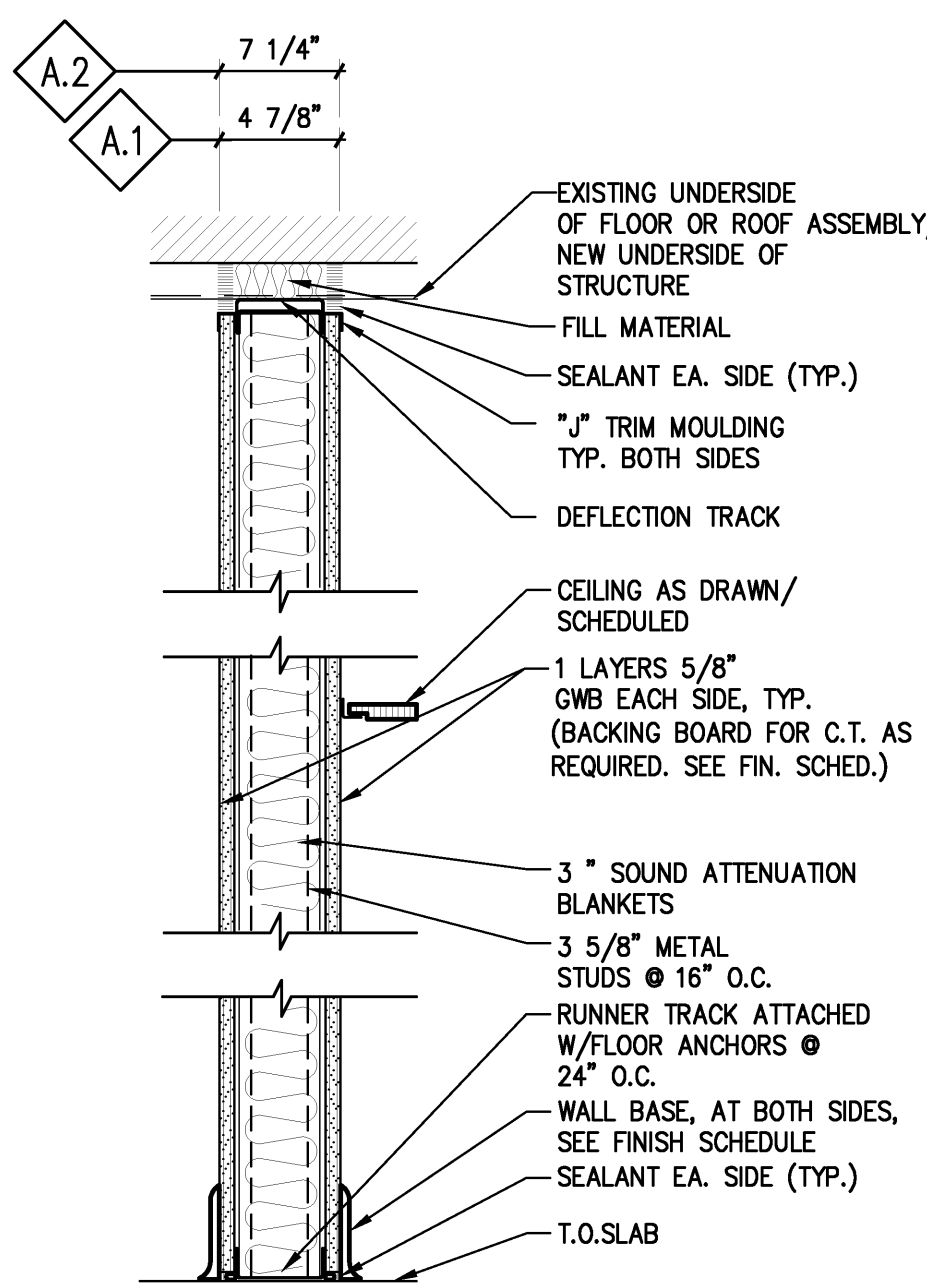
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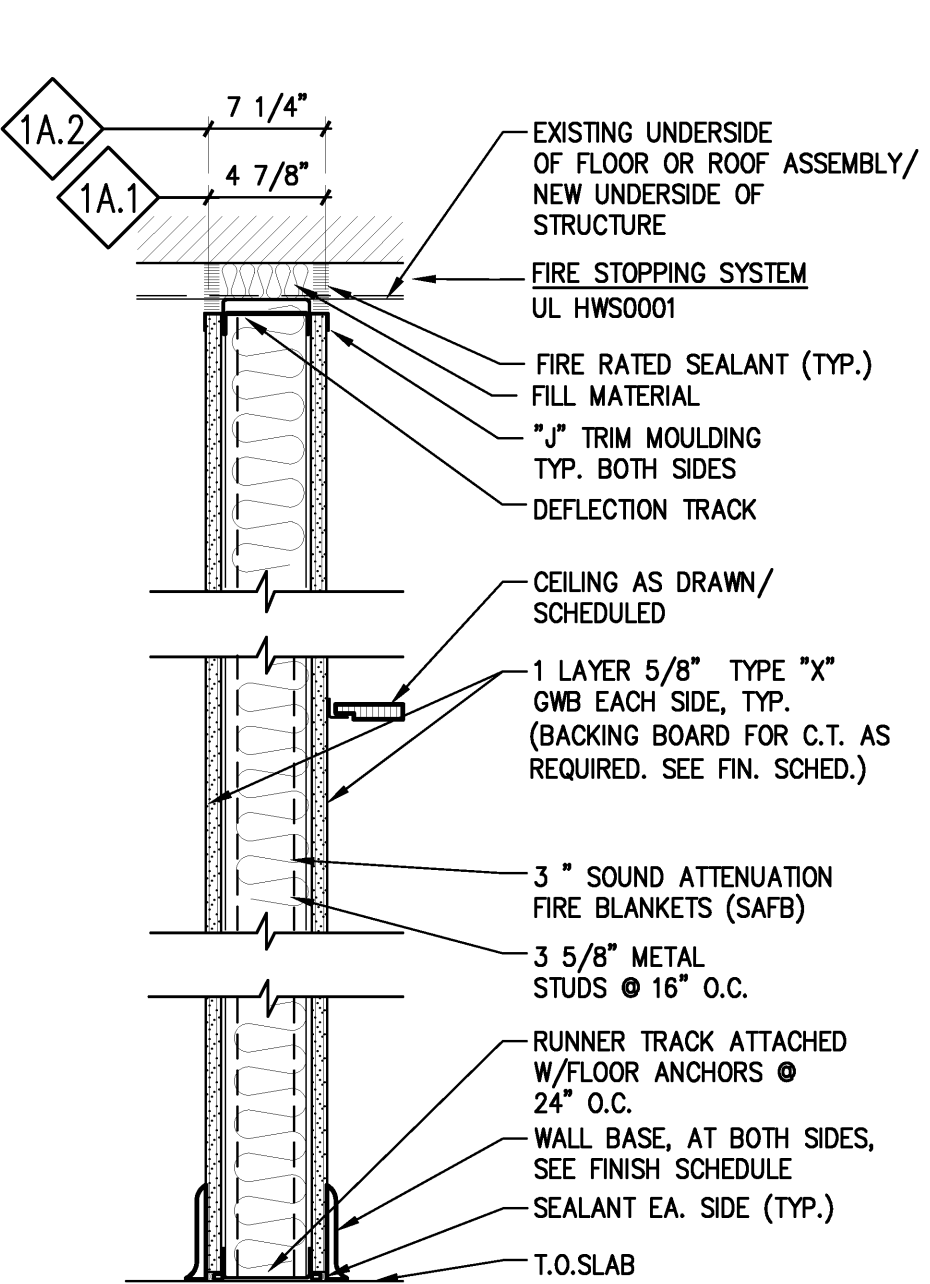
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: ABBREVIATIONS, SYMBOLS LEGEND & NOTES FOR GEN & SUB CONTRACTORS
 Sheet Number: **AO.1**

Cahoon Steiling Studio



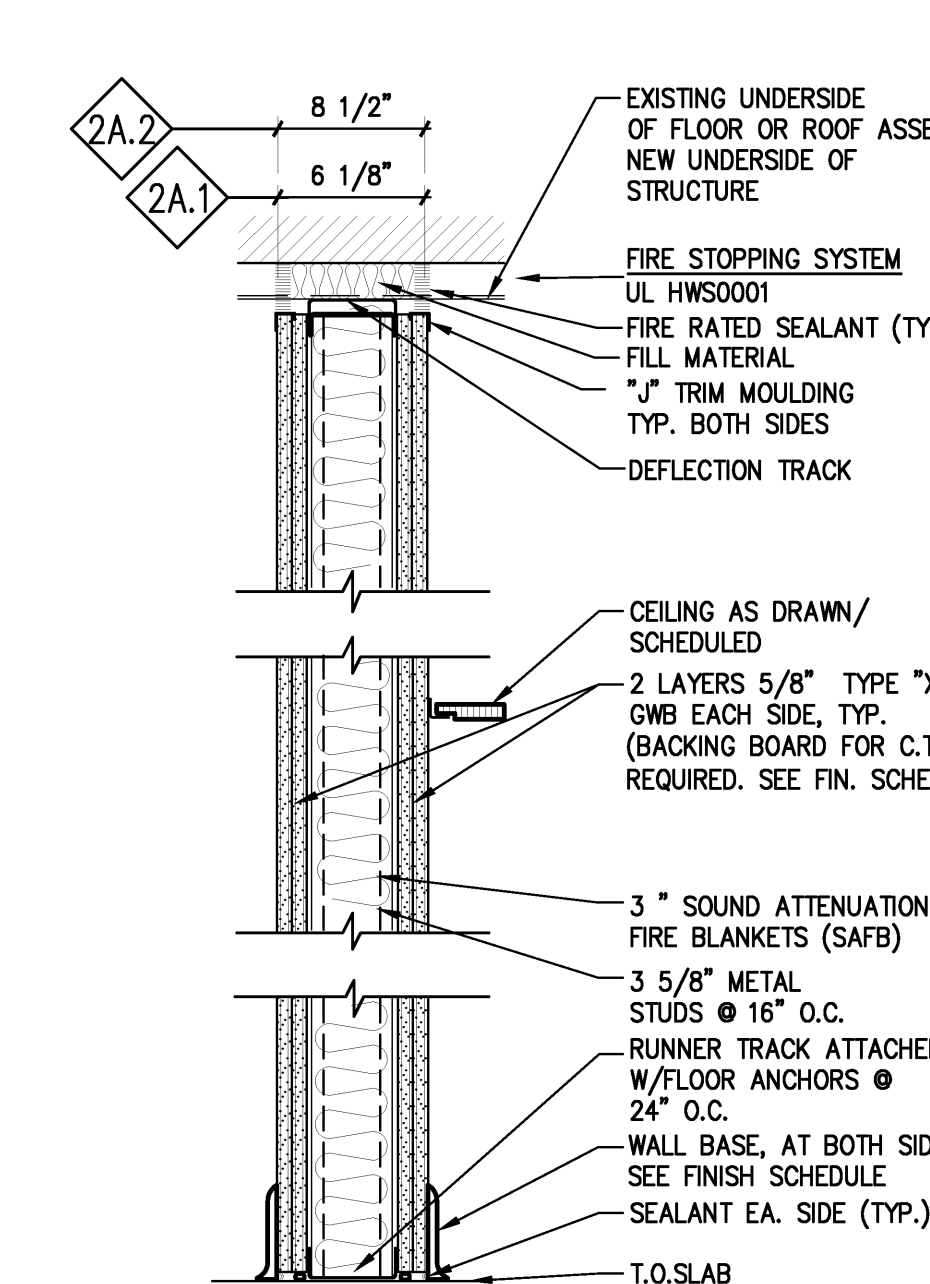
NON-RATED ACOUSTICAL PARTITION

- A.1** AS SHOWN ON PLANS
- A.2** SAME AS **A.1** EXCEPT WITH 6" METAL STUDS @ 16" O.C.
- A.3** SAME AS **A.1** EXCEPT WITH NO SOUND BLANKET
- A.4** SAME AS **A.2** EXCEPT WITH NO SOUND BLANKET



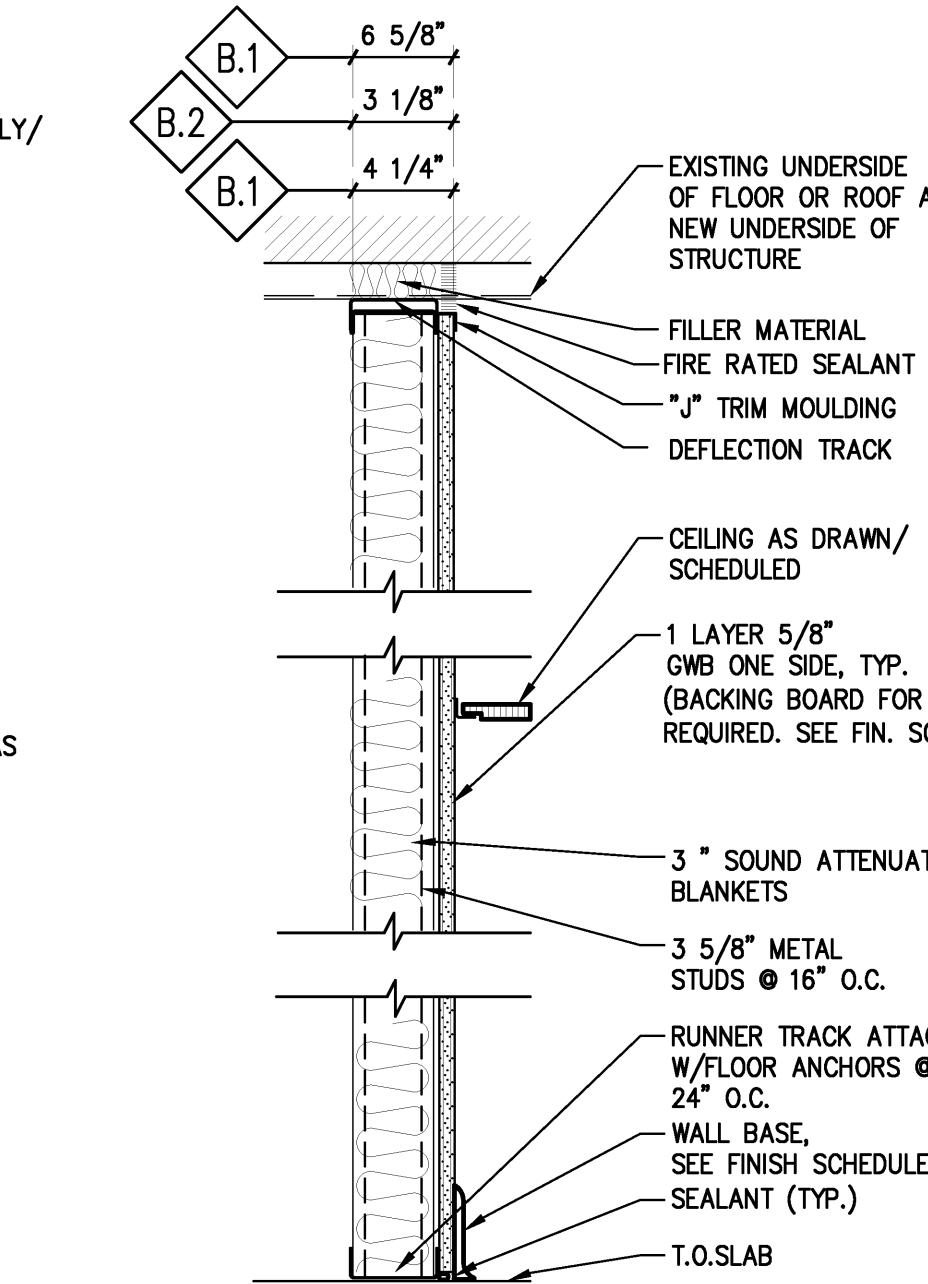
1 HOUR ACOUSTICAL PARTITION
UL DESIGN #465

- 1A.1** AS SHOWN ON PLANS
- 1A.2** SAME AS **1A.1** EXCEPT WITH 6" METAL STUDS @ 16" O.C.



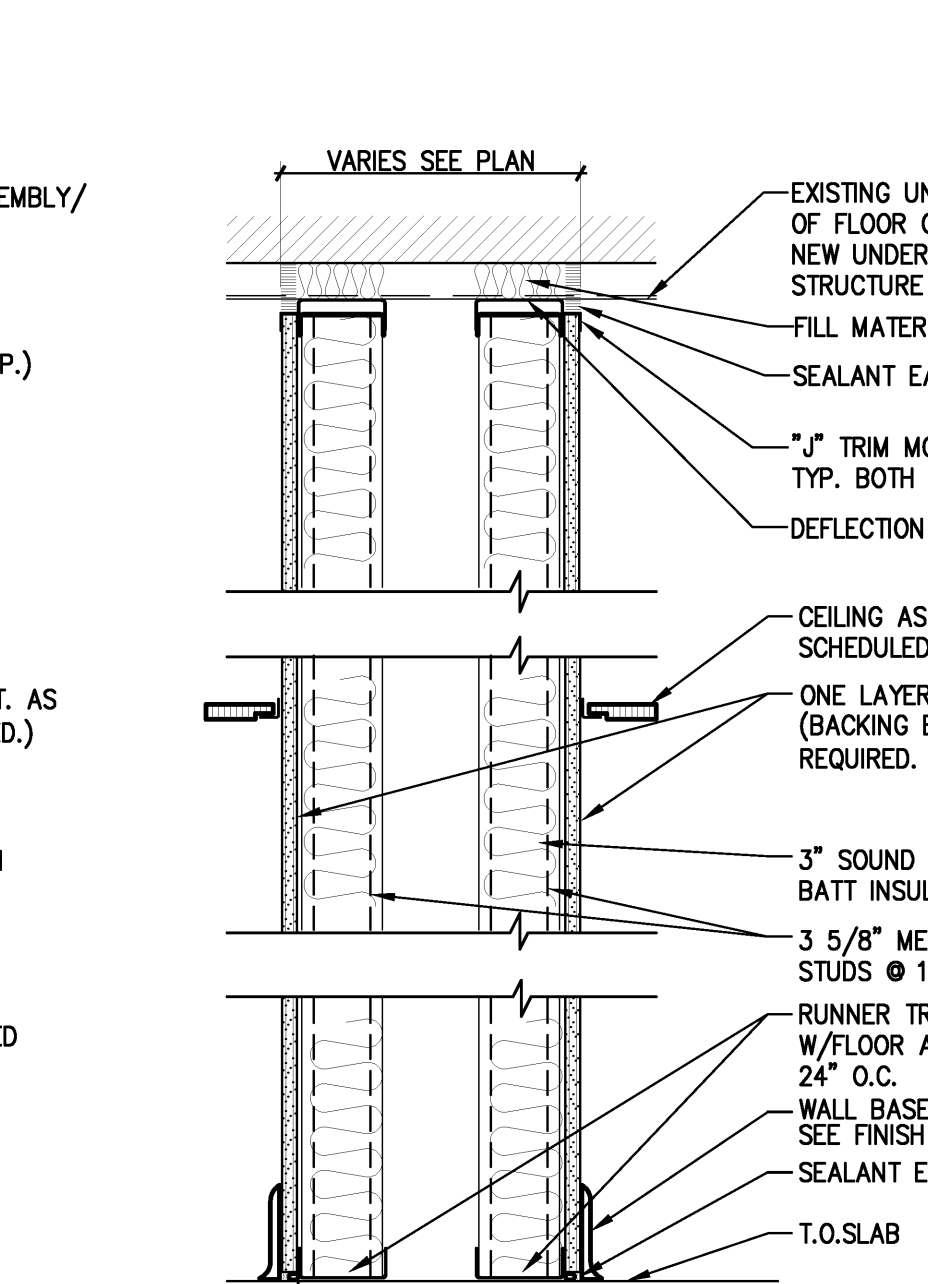
2 HOUR ACOUSTICAL PARTITION
UL DESIGN #411 - STC 56

- 2A.1** AS SHOWN ON PLANS
- 2A.2** SAME AS **2A.1** EXCEPT NO SOUND BLANKET
- 2A.3** SAME AS **2A.1** EXCEPT WITH 6" METAL STUDS @ 16" O.C.



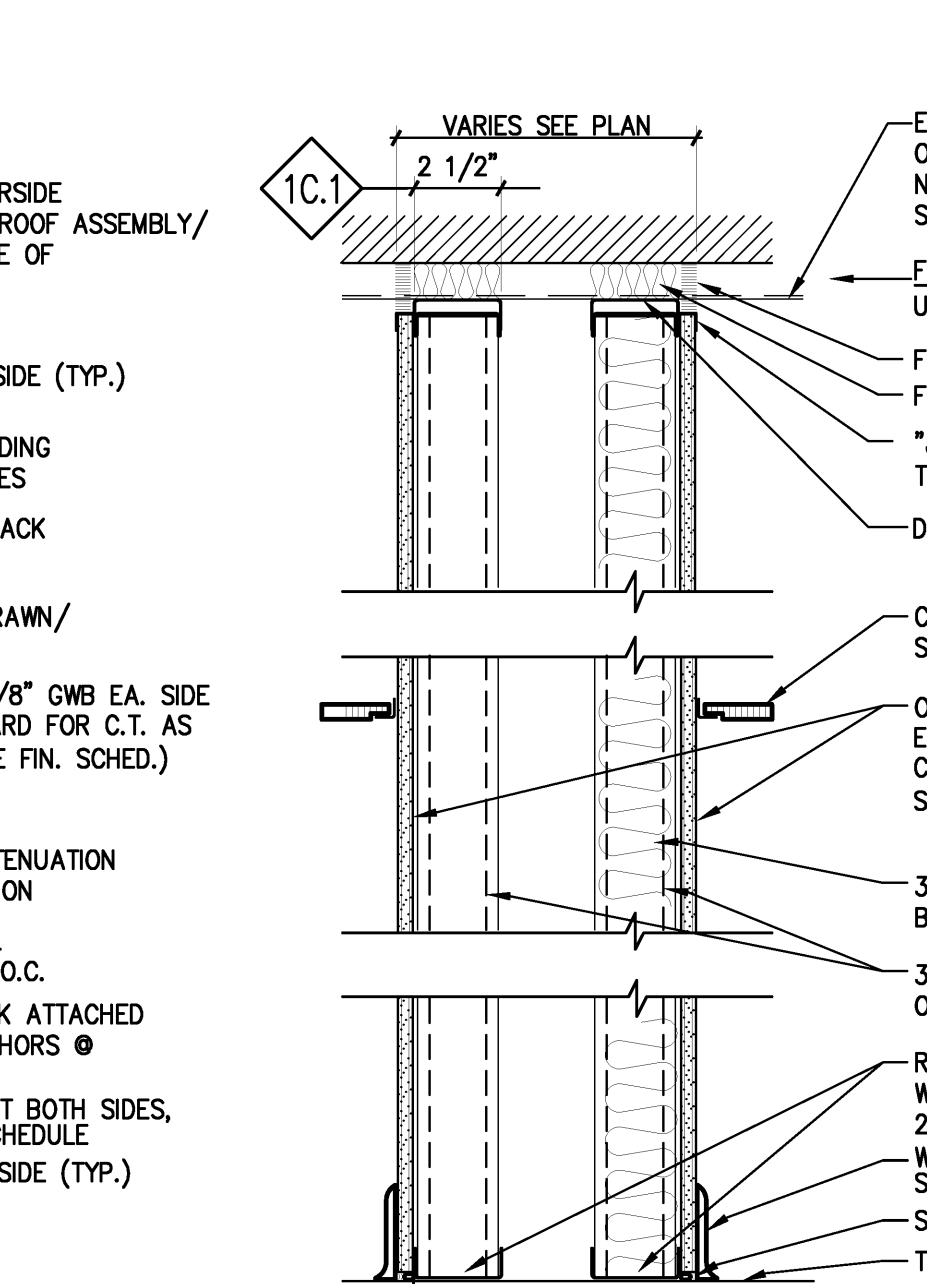
NON-RATED ACOUSTICAL PARTITION

- B.1** AS SHOWN ON PLANS
- B.2** SAME AS **B.1** EXCEPT WITH 2 1/2" METAL STUDS @ 16" O.C.
- B.3** SAME AS **B.1** EXCEPT WITH 6" METAL STUDS @ 16" O.C.



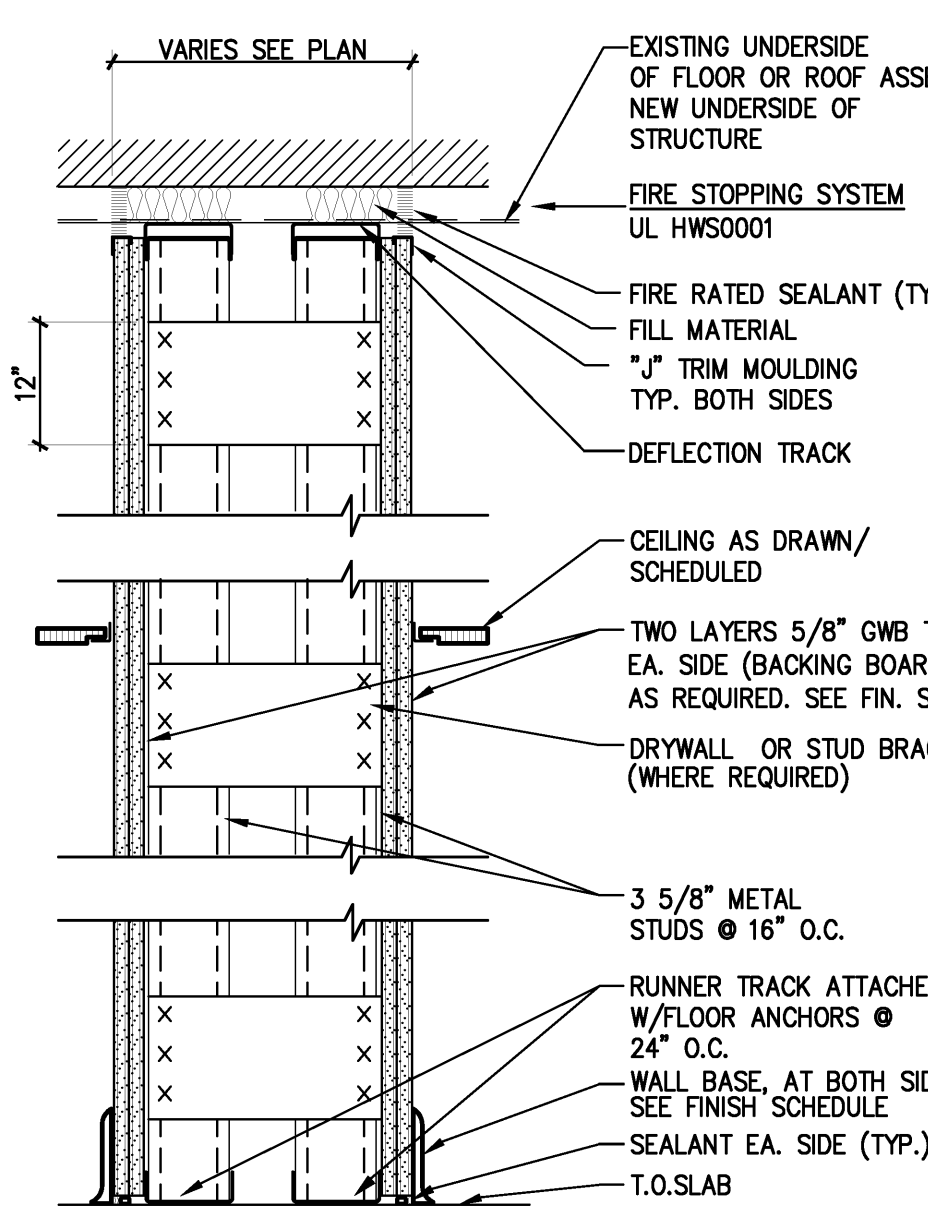
NON-RATED CHASE WALL

- C.1** AS SHOWN ON PLANS
- C.2** SIMILAR TO **C.1** EXCEPT GWB ROOM SIDE ONLY AND BATT INSULATION PLACED IN STUD ADJACENT TO EXTERIOR WALL



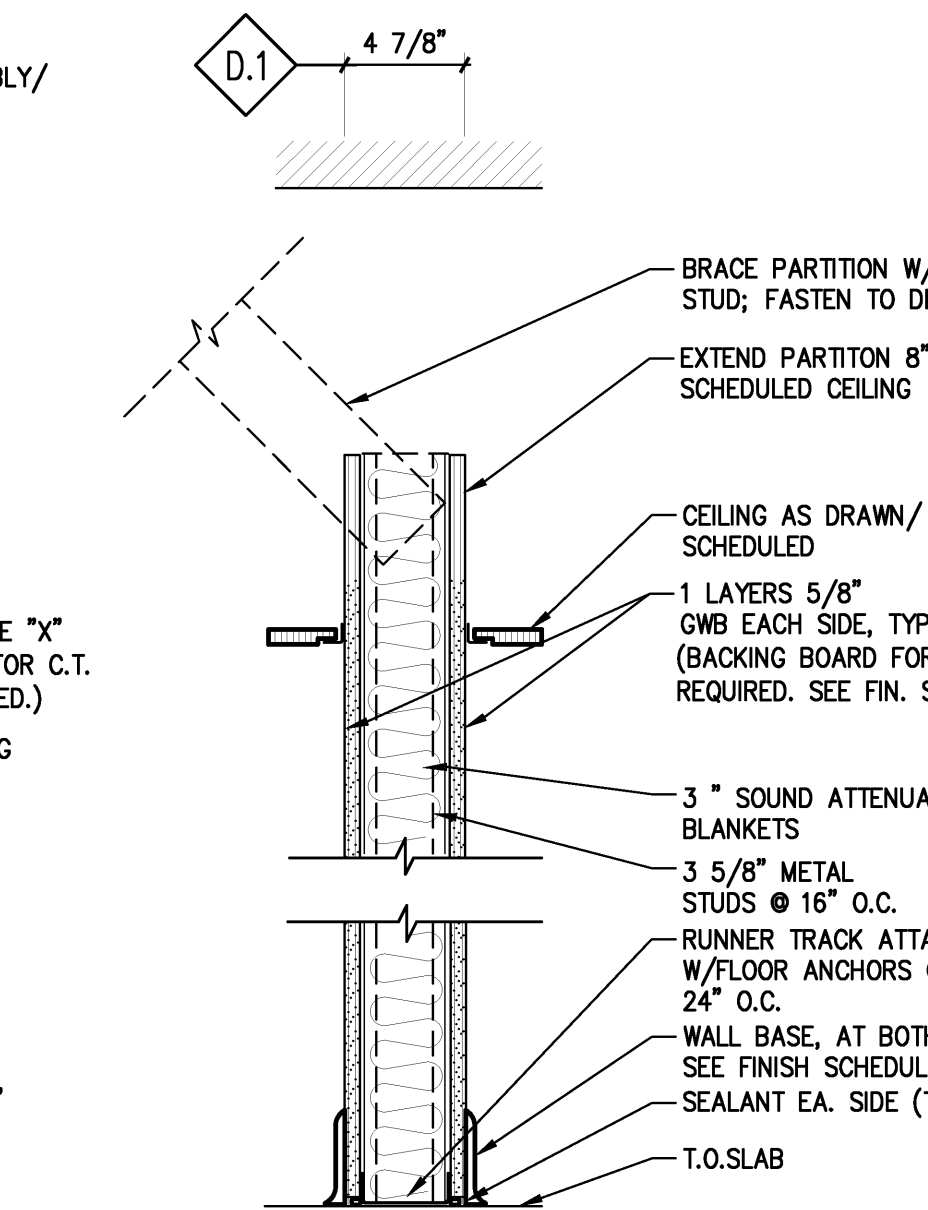
1 HOUR RATED CHASE WALL
UL # 420

- 1C.1** AS SHOWN ON PLANS
- 1C.2** SAME AS **1C.1** EXCEPT WITH 2 1/2" MTL STUDS



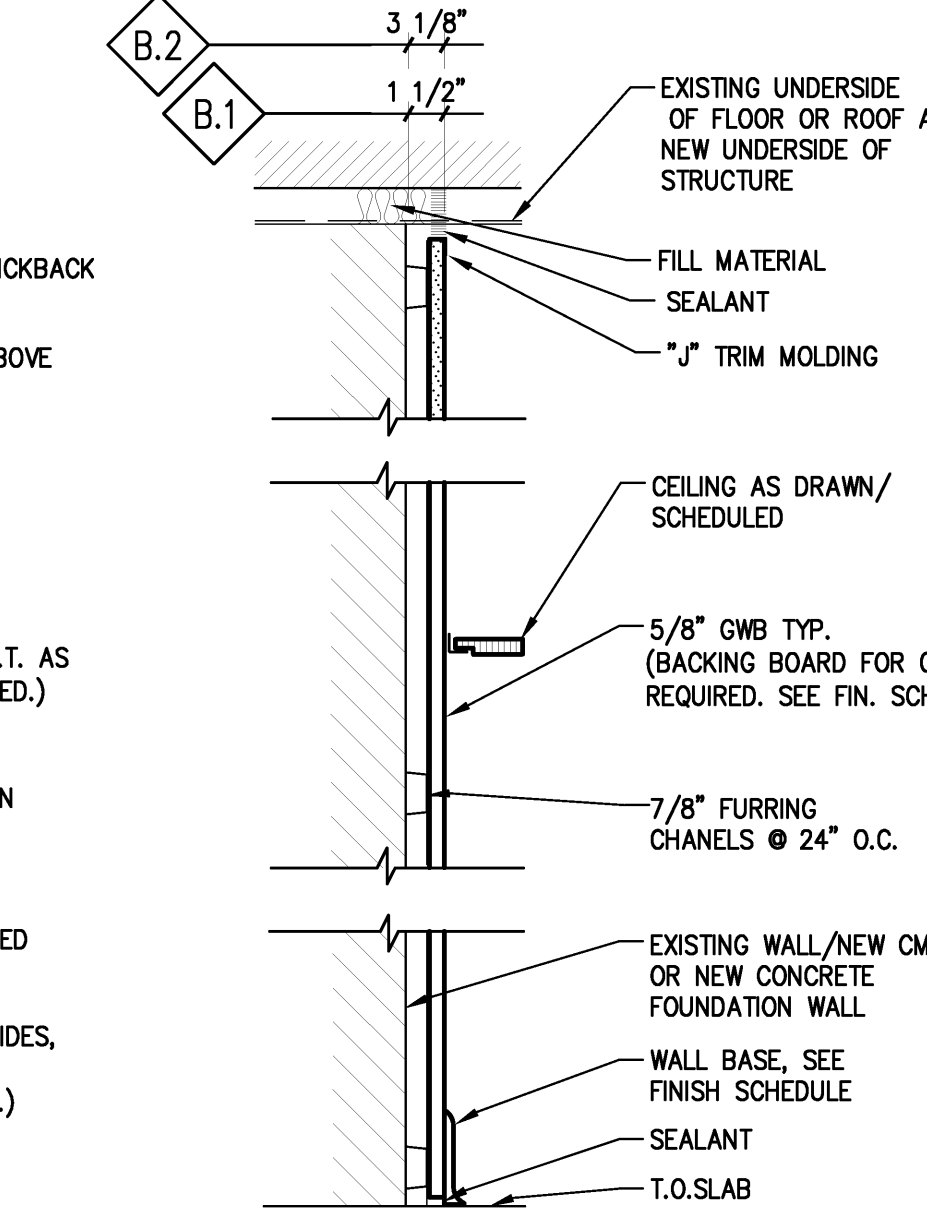
2 HOUR RATED CHASE WALL
UL # 420

- 2C.1** AS SHOWN ON PLANS
- 2C.2** SAME AS **2C.1** EXCEPT WITH 6" MTL STUDS



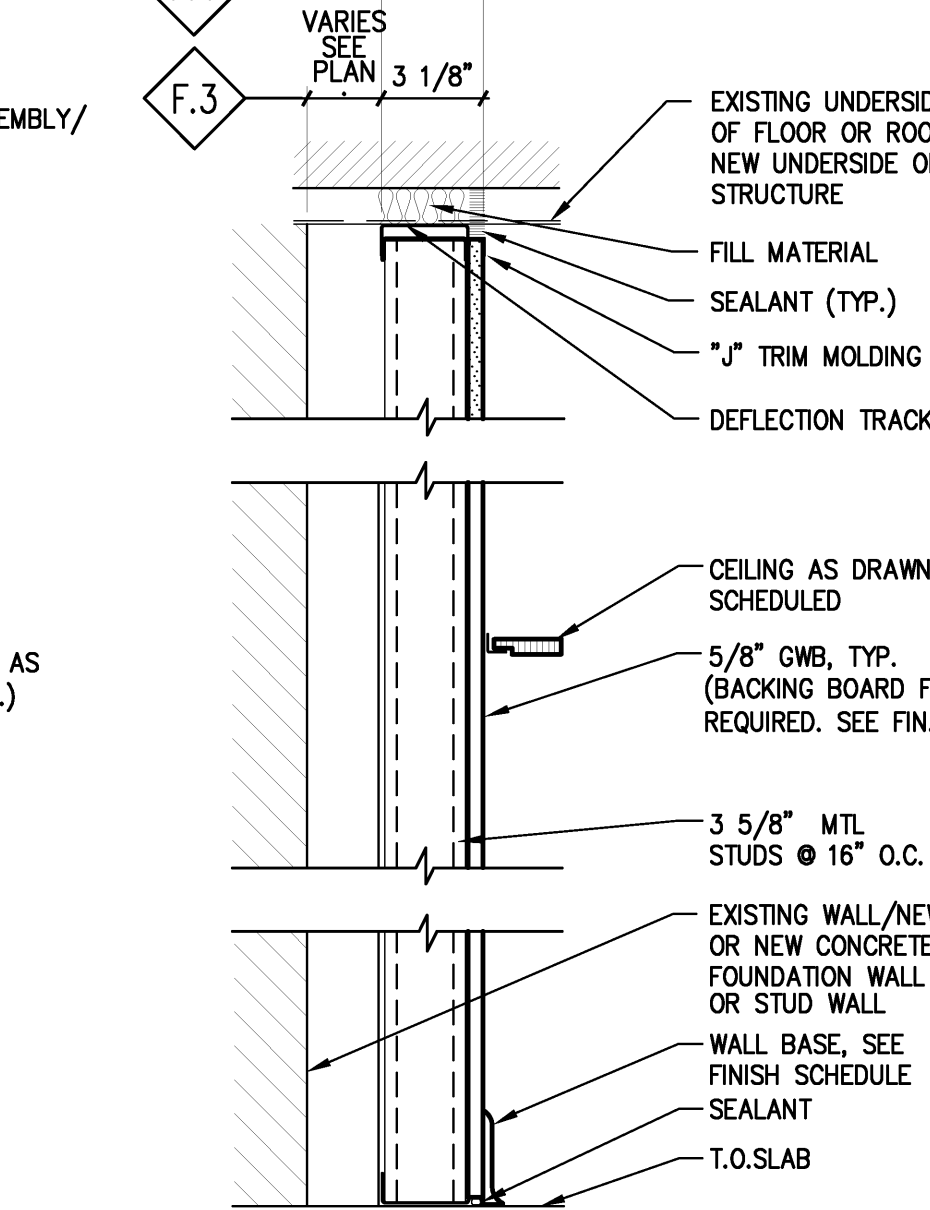
NON-RATED PARTIAL HEIGHT ACOUSTICAL PARTITION

- D.1** AS SHOWN ON PLANS



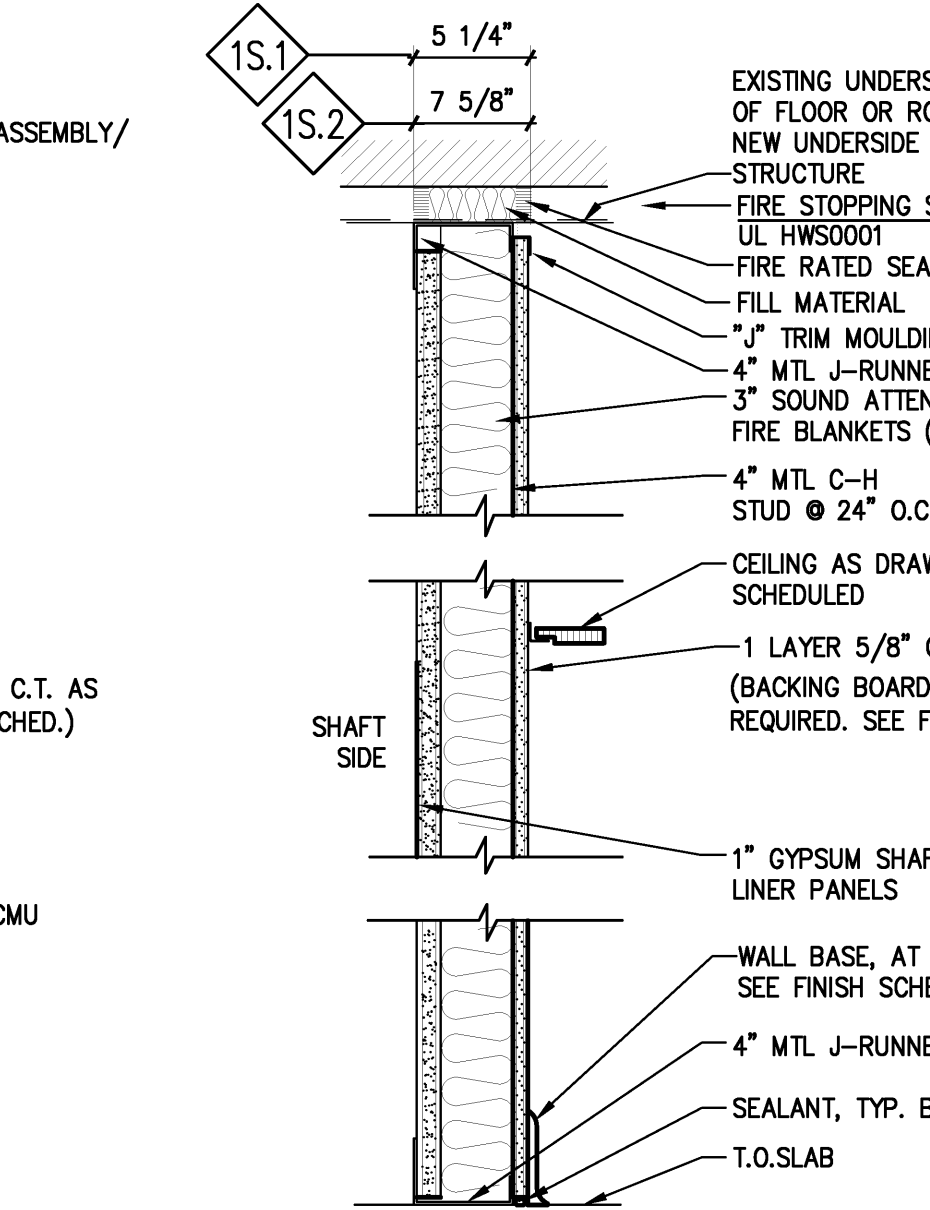
NON-RATED FURRED WALL

- F.1** AS SHOWN ON PLANS
- F.2** SIMILAR TO **F.2** EXCEPT USE 2 1/2" METAL STUDS



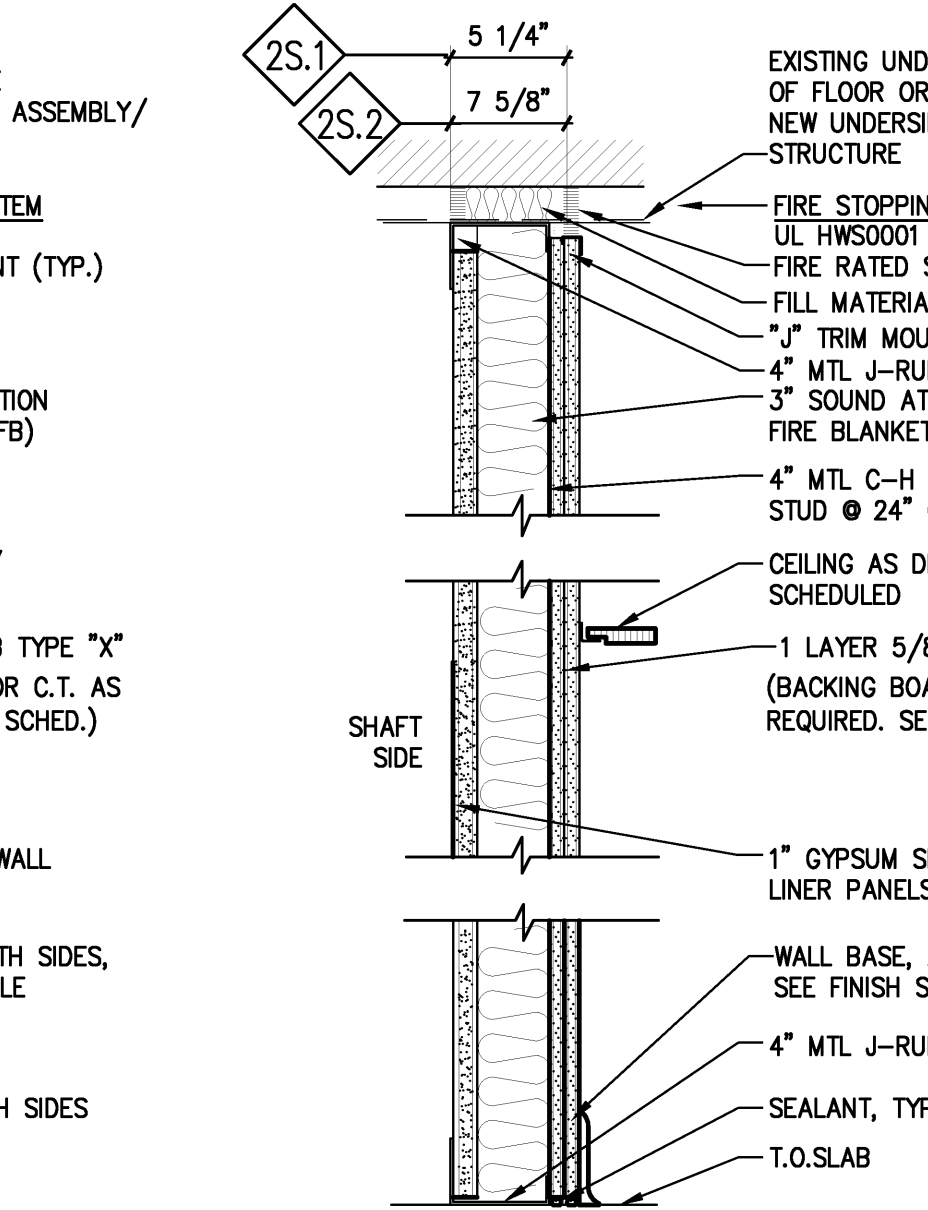
NON-RATED FURRED WALL

- F.3** AS SHOWN ON PLANS
- F.4** SIMILAR TO **F.3** EXCEPT WITH 3 5/8" METAL STUDS @ 16" O.C.
- F.5** SIMILAR TO **F.4** EXCEPT ADD 3 1/2" BATT INSULATION



1 HOUR SHAFT WALL
UL DESIGN #469

- 1S.1** AS SHOWN ON PLANS
- 1S.2** SAME AS **1S.1** EXCEPT WITH 6" METAL E-STUDS



1 HOUR SHAFT WALL
UL DESIGN #469

- 2S.1** AS SHOWN ON PLANS
- 2S.2** SAME AS **1S.1** EXCEPT WITH 6" METAL E-STUDS

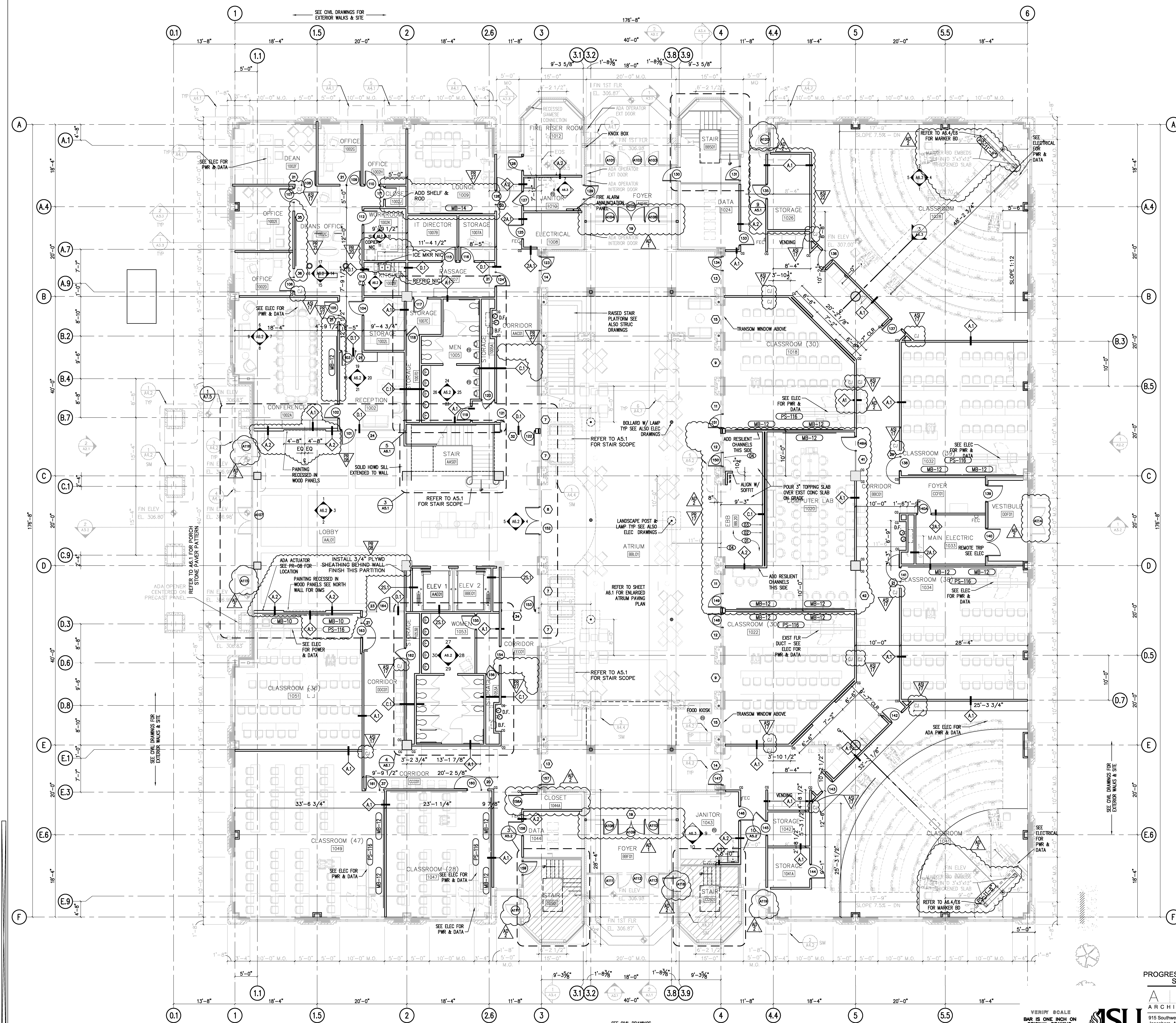
- NOTES:**
- UNLESS OTHERWISE SPECIFIED, FABRICATE HORIZONTAL CEILING AND SOFFIT FRAMING TO LIMIT FINISH SURFACE TO 1/360 DEFLECTION UNDER SUPERIMPOSED DEAD LOADS.
 - UNLESS OTHERWISE SPECIFIED, FABRICATE WALL FRAMING TO LIMIT FINISH SURFACE TO 1/240 DEFLECTION UNDER SUPERIMPOSED DEAD LOADS.
 - AT METAL STUD PARTITIONS PROVIDE APPROPRIATE SIZE FRAMING AND HORIZONTAL BRIDGING AT MIDPOINT OF STUD WHERE PARTITIONS EXCEED 12FT OR IN PARTITIONS OF ANY HEIGHT WHERE GWB DOES NOT CONTINUE TO THE TOP TRACK OR AS OTHERWISE RECOMMENDED BY THE METAL STUD SUPPLIER. THE METAL STUD SUPPLIER REQUIREMENTS SHALL BE INCLUDED WITH SUBMITTALS.
 - BRIDGING SHALL BE CONNECTED TO STUDS AS REQUIRED BY THE METAL STUD SUPPLIER AND AT EACH END WHERE BRIDGING ABUTS DOOR OR WINDOW OPENINGS.
 - INTERIOR STUDS SHALL BE ANCHORED BACK TO THE STRUCTURAL FRAME WHERE STUDS ARE ADJACENT TO AND EXTEND PAST THE FLOOR / ROOF ABOVE.
 - INSTALL DEFLECTION TRACK SYSTEM BY APPROVED METAL STUD SUPPLIER. ALLOWABLE VERTICAL DEFLECTION 1 1/2" (3/4" +/-). ACCEPTABLE SYSTEMS INCLUDED SLOTTED TRACK, DEEP LEG TRACK WITH BRIDGING IMMEDIATELY BELOW OR 2 PIECE DEEP LEG. REFER ALSO TO 0911.
 - PRIOR TO STUD ERECTION, THE METAL STUD CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO OTHER TRADES THAT METAL STUD MODIFICATION IS SUBJECT TO COORDINATION AND APPROVAL WITH THE METAL STUD SUPPLIER. THE METAL STUD CONTRACTOR SHALL COORDINATE OTHER TRADE'S MODIFICATIONS WITH THE METAL STUD SUPPLIER TO ENSURE THAT THE SIZE, SPACING, LOCATION OR OTHER MODIFICATION DOES NOT COMPROMISE THE REQUIRED LOADING OR DEFLECTION PERFORMANCE CRITERIA.
 - ABOVE PARTITIONS AT METAL DECK, DECK CLOSURES ARE TO BE AS FOLLOWS:
 - * AT PARTITIONS THAT ARE NOT FIRE RATED AND WHERE EXPOSED TO PUBLIC VIEW, INSTALL 1" THK RUBBER OR SYNTHETIC RUBBER DECK FLUTE CLOSURES (TYPICAL). CLOSURES BY: WWW.HUSTONFORM.COM OR EQUAL.
 - * AT SOUND RATED PARTITIONS PROVIDE SOUND ATTENUATION INSULATION, FILLING IN DECK FLUTES ABOVE PARTITIONS (TYPICAL).
 - * AT FIRE RATED PARTITIONS PROVIDE MINERAL FIBER SAFING AND SMOKE SEAL, FILLING IN DECK FLUTES ABOVE PARTITIONS (TYPICAL).
 - THE CONTRACTOR SHALL TAKE INTO CONSIDERATION THE DECK PROFILE AND COORDINATE SUFFICIENT ATTACHMENT REQUIREMENTS WITH THE METAL STUD SUPPLIER IN PREPARING THEIR BID. METAL BRIDGING PLATES SHALL BE INSTALLED ACROSS METAL DECK FLUTES WHERE INTERIOR PARTITIONS RUN PARALLEL TO METAL DECK FLUTES AND THE STUD TRACK DOES NOT SUFFICIENTLY CONTACT THE DECK SURFACE TO SATISFY THE SPECIFIED LOAD CRITERIA.
 - METAL FRAMING MANUFACTURER SHALL SUBMIT A CERTIFICATE INDICATING THAT THE MANUFACTURER HAS REVIEWED THE PROJECT DOCUMENTS, AND THE FRAMING SUPPLIED CONFORMS TO THE REQUIREMENTS LISTED. THE METAL FRAMING MANUFACTURER SHALL SUBMIT A CHART LISTING THE PARTITION TYPES, MANUFACTURER PRODUCTS USED, THE ASSOCIATED UL FIRE RATING SYSTEM, AND THE LIMITING HEIGHT.
 - THE METAL STUD SUPPLIER SHALL PROVIDE CALCULATIONS FOR OPENINGS MORE THAN 4-FEET WIDE - CALCULATIONS SHALL BE INCLUDED IN SUBMITTAL.
 - ALL PENETRATIONS IN FIRE RATED PARTITIONS AND CEILINGS SHALL BE FIRE STOPPED TO MATCH WALL RATING - RATINGS SHALL BE AS PER CODE REQUIREMENTS. REFER ALSO TO LIFE SAFETY DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.
 - WHERE RATED WALLS EXTEND TO ROOF DECK PROVIDE UL RATED CLOSURE ASSEMBLIES TO MAINTAIN WALL RATINGS.
 - MAINTAIN INTEGRITY OF ALL RATED PARTITIONS AS REQUIRED AT ELECTRIC CONDUITS, J-BOXES, PANELS, PLUMBING & FIRE EXTINGUISHERS.
 - PROVIDE HORIZONTAL METAL STUD BRACINGS AT CHASE WALLS. INSTALLATION SHALL BE ACCORDING TO THE METAL STUD SUPPLIER AND COORDINATED WITH PIPING & DUCT WORK TO FACILITATE MAINTENANCE PERSONAL ACCESS THROUGH CHASES.
 - PROVIDE CONTINUOUS BLOCKING FOR ALL EQUIPMENT RACKS, LIGHTING FIXTURES, CASEWORK, COUNTERS, SHELVES, ACCESSORIES, AND ALL EQUIPMENT OR ITEMS SUPPLIED BY THE CONTRACTOR OR BY THE OWNER, AS REQUIRED.
 - DOOR JAMBS SHALL BE 4" OFF ADJACENT WALL UNLESS OTHERWISE NOTED.
 - INSTALL CONTROL JOINTS AS INDICATED IN DRAWINGS AND AS APPROVED BY ARCHITECT ACCORDING TO ASTM C 840.
 - REFER TO FINISH SCHEDULE FOR FINISHES (FINISHES ARE NOT SHOWN ON WALL TYPES).
 - ALL DIMENSIONS ARE TO THE PARTITION CENTER LINE UNLESS OTHERWISE SHOWN.
 - ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
 - CORE DRILL ALL PENETRATIONS. SAW CUT PENETRATIONS WHERE CORE DRILLING IS NOT POSSIBLE. PENETRATIONS SHALL BE MINIMIZED AND COORDINATED IN ADVANCE OF DRILLING / CUTTING WITH UL FIRE RATINGS.
 - IN ALL TOILET ROOMS, OR AREAS WHERE THERE IS CERAMIC TILE WAINSCOT, THE CONTRACTOR SHALL INSTALL DUROC OR HI-IMPACT XP (MOLD/MILDEW/MOISTURE RESISTANT) GWB BY NATIONAL CYPSPUM (OR APPROVED EQ) BENEATH THE TILE FINISH IN LIEU OF 5/8" GWB.
 - GC TAKE NOTE & COORD. PRIOR TO INSTALLATION - THE CONTRACTOR SHALL PROMPTLY BRING TO THE ARCHITECT'S ATTENTION ANY OCCURRENCE WHERE STUD FLANGES MAY NEED TO BE CUT IN ORDER TO PROCEED WITH INSTALLATION.
 - REFER TO INTERIOR ELEVATIONS AND EXTERIOR WALL SECTIONS FOR ADDITIONAL PARTITION DETAILS.
 - BOX HEADERS SHALL BE INSULATED. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT 3 DAYS ADVANCE NOTICE UPON COMPLETION AND PRIOR TO CONCEALING THE WORK TO ALLOW VISUAL CONFIRMATION. THE CONTRACTOR SHALL TAKE NOTE OF GENERAL CONDITIONS 12.1 REQUIREMENT "UNCOVERING OF WORK".

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NOTES:

1. REFER TO DRAWINGS A0.1 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.
2. ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
3. EXTERIOR WINDOWS KEYED ON ELEVATION DRAWINGS A2.1-A2.3 AND INTERIOR WINDOWS KEYED ON FLOOR PLANS.
4. ROUGH-IN J-BOX & CONDUIT FOR ADA DOOR OPERATORS AND STUB OUT TO ELEC ROOM 124 FOR DOORS 104, 105 AND 106. STUB OUT TO JANITOR'S CLOSET 141 FOR DOORS 112, 113 AND 114.
5. REFER TO 07B2 FOR SPRAY-APPLIED FIRE RESISTIVE MATERIAL TYPICAL THICKNESS.
6. INTERIOR PARTITIONS, FINISHES, CEILINGS, INTERIOR GLASS & GALZING, AND DOORS NOT IN CONTRACT (NIC) UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. REFER TO SHEET A6.1-A6.4 FOR ADDITIONAL INFORMATION AND A8.1 FOR FINISHES.
8. ALL DOORS ARE 6" OFF ADJACENT WALL TO INSIDE OF DOOR FRAME UNLESS OTHERWISE DIMENSIONED.
9. WHEN PARTITIONS ARE NOT DIMENSIONED THEY ARE TYPICALLY ON A 5 FT. MODULE TO ALIGN WITH THE CENTERS OF WINDOWS, CENTERS BETWEEN WINDOWS, OR ALIGNED WITH WINDOW JAMBS. ANY DISCREPANCY SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
10. INTERIOR WINDOWS ARE KEYED ON FLOOR PLANS.
11. REFER TO A6.1 FOR ENLARGED INTERIOR FLOOR PAVING PLAN.
12. REFER TO CIVIL DRAWINGS FOR SITE INFORMATION.



SHEET ISSUED 03/17/14 (GWB Cont Jnts)



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SEPTEMBER 16, 2014

201 E. Markham St. 150
Little Rock, AR 72201
Location: Jonesboro, AR
501.375.0378 F
501.375.6601 F

Date: October 03, 2013
Title: First Floor - Plan
Sheet Number: **A1.1**



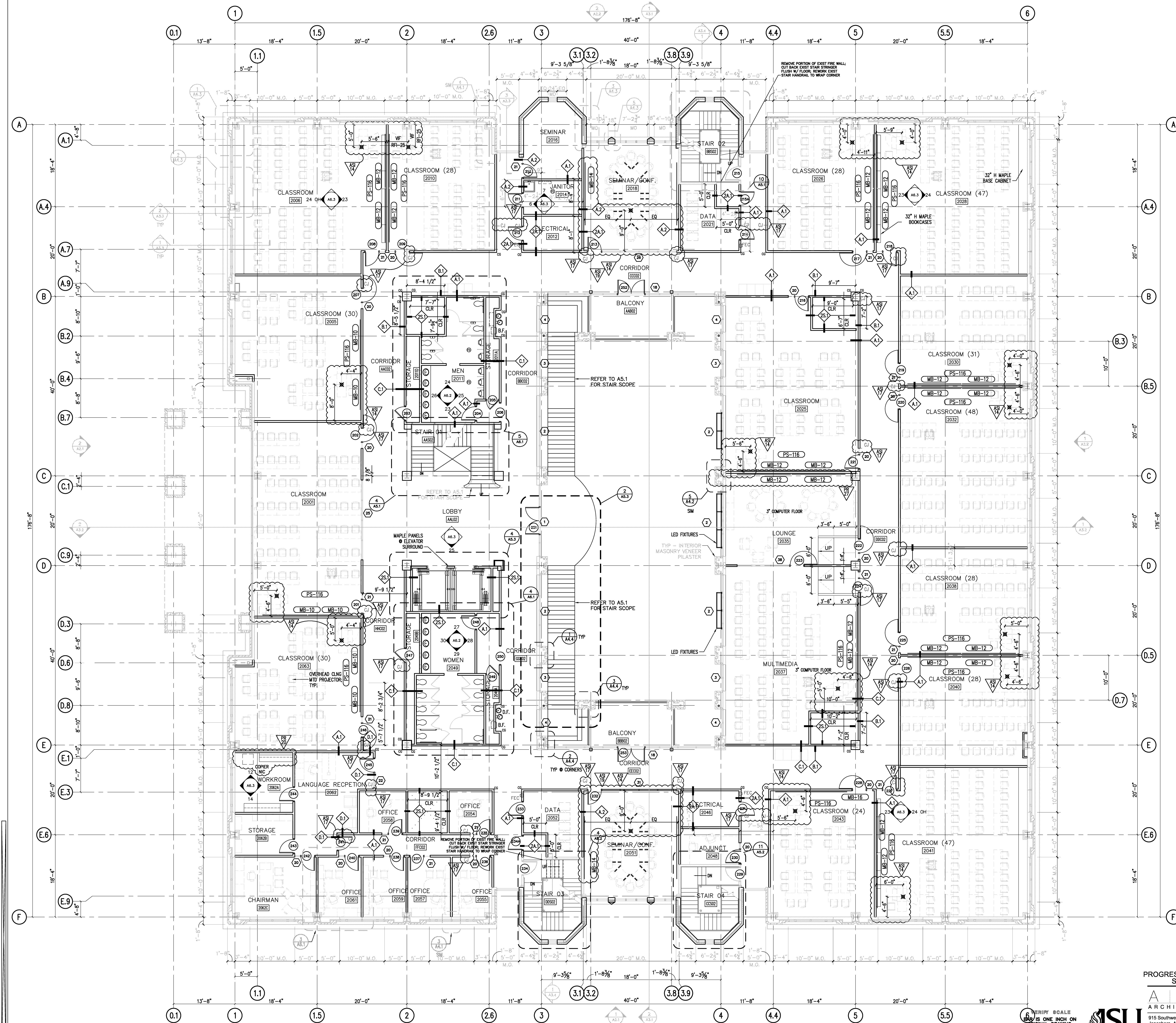
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SEE CIVIL DRAWINGS
& A2.3 FOR DETAILS

NOTES:

- REFER TO DRAWINGS A0.1 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.
- ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
- EXTERIOR WINDOWS KEYED ON ELEVATION DRAWINGS A2.1-A2.3 AND INTERIOR WINDOWS KEYED ON FLOOR PLANS.
- ROUGH-IN J-BOX & CONDUIT FOR ADA DOOR OPERATORS AND STUB OUT TO ELEC ROOM 124 FOR DOORS 104, 105 AND 106. STUB OUT TO JANITOR'S CLOSET 141 FOR DOORS 112, 113 AND 114.
- REFER TO 07B12 FOR SPRAY-APPLIED FIRE RESISTIVE MATERIAL TYPICAL THICKNESS.
- INTERIOR PARTITIONS, FINISHES, CEILINGS, INTERIOR GLASS & GALZING, AND DOORS NOT IN CONTRACT (NIC) UNLESS SPECIFICALLY INDICATED OTHERWISE.
- REFER TO SHEET A6.1-A6.4 FOR ADDITIONAL INFORMATION AND A8.1 FOR FINISHES.
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- INTERIOR WINDOWS ARE KEYED ON FLOOR PLANS.
- REFER TO A6.1 FOR ENLARGED INTERIOR FLOOR PAVING PLAN.
- REFER TO CIVIL DRAWINGS FOR SITE INFORMATION.



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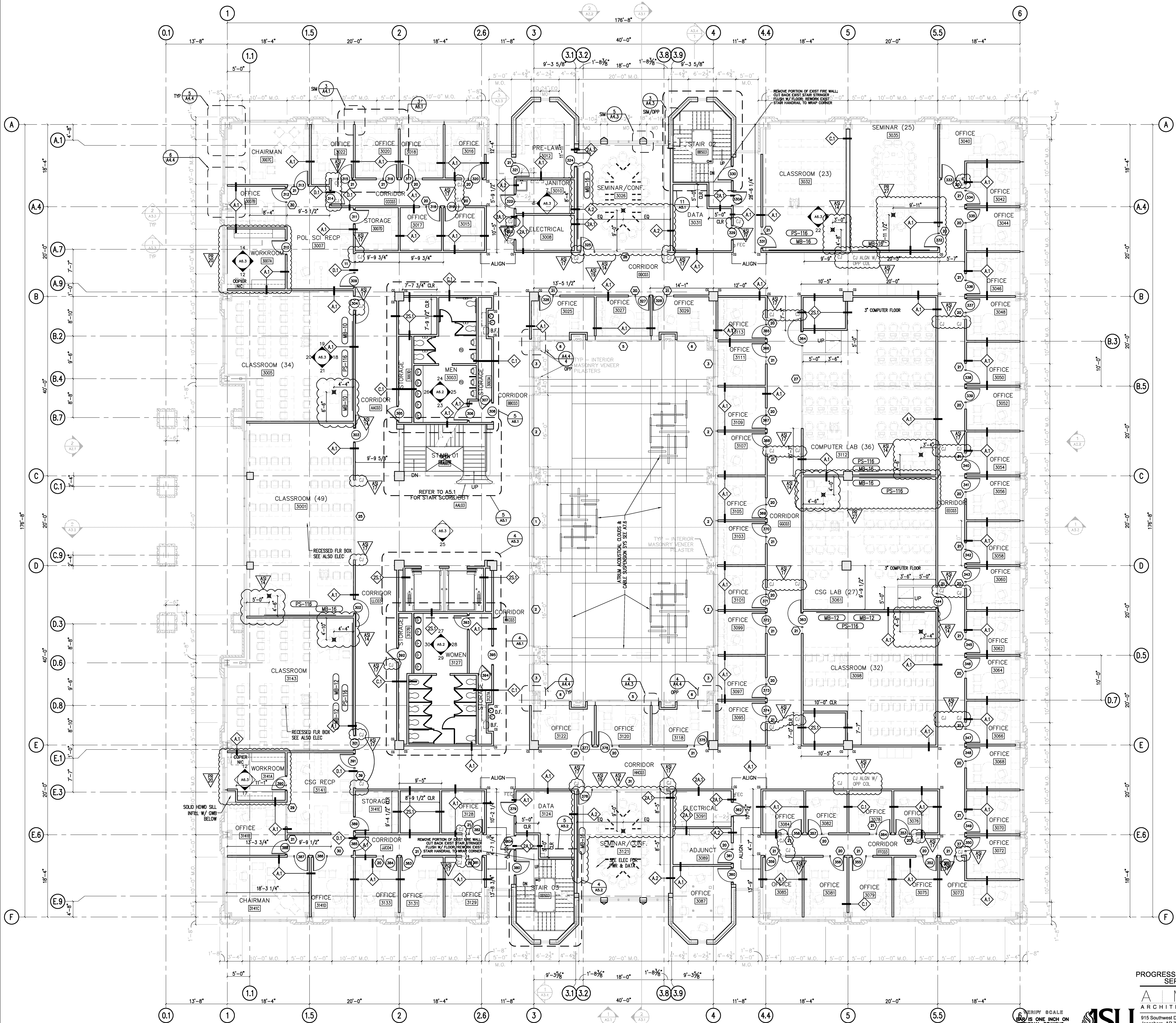
201 E. Markham St. 150
Little Rock, AR 72201
915 Southwest Drive
Jonesboro, AR 72401
870 933-6993 TEL.
870 933-6988 FAX.

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Second Floor - Plan
Sheet Number: **A1.2**



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- NOTES:**
- REFER TO DRAWINGS A0.1 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.
 - ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
 - EXTERIOR WINDOWS KEYED ON ELEVATION DRAWINGS A2.1-A2.3 AND INTERIOR WINDOWS KEYED ON FLOOR PLANS.
 - ROUGH-IN J-BOX & CONDUIT FOR ADA DOOR OPERATORS AND STUB OUT TO ELEC ROOM 124 FOR DOORS 104, 105 AND 106. STUB OUT TO JANITOR'S CLOSET 141 FOR DOORS 112, 113 AND 114.
 - REFER TO 07B12 FOR SPRAY-APPLIED FIRE RESISTIVE MATERIAL TYPICAL THICKNESS.
 - INTERIOR PARTITIONS, FINISHES, CEILINGS, INTERIOR GLASS & GALZING, AND DOORS NOT IN CONTRACT (NIC) UNLESS SPECIFICALLY INDICATED OTHERWISE.
 - REFER TO SHEET A6.1-A6.4 FOR ADDITIONAL INFORMATION AND A8.1 FOR FINISHES.
 - ALL DOORS ARE 6" OFF ADJACENT WALL TO INSIDE OF DOOR FRAME UNLESS OTHERWISE DIMENSIONED.
 - WHEN PARTITIONS ARE NOT DIMENSIONED THEY ARE TYPICALLY ON A 5 FT. MODULE TO ALIGN WITH THE CENTERS OF WINDOWS, CENTERS BETWEEN WINDOWS, OR ALIGNED WITH WINDOW JAMBS. ANY DISCREPANCY SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
 - INTERIOR WINDOWS ARE KEYED ON FLOOR PLANS.
 - REFER TO A6.1 FOR ENLARGED INTERIOR FLOOR PAVING PLAN.
 - REFER TO CIVIL DRAWINGS FOR SITE INFORMATION.



▲ SHEET REISSUED 03/17/14 (GWB Cont. Jhts)
 ▲ SHEET REISSUED 03/04/14



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 Little Rock, AR 72201
 Location: Jonesboro, AR
 501.375.0378 F
 501.375.6601 F
 Date: October 03, 2013
 Title: Third Floor - Plan
 Sheet Number: **A1.3**



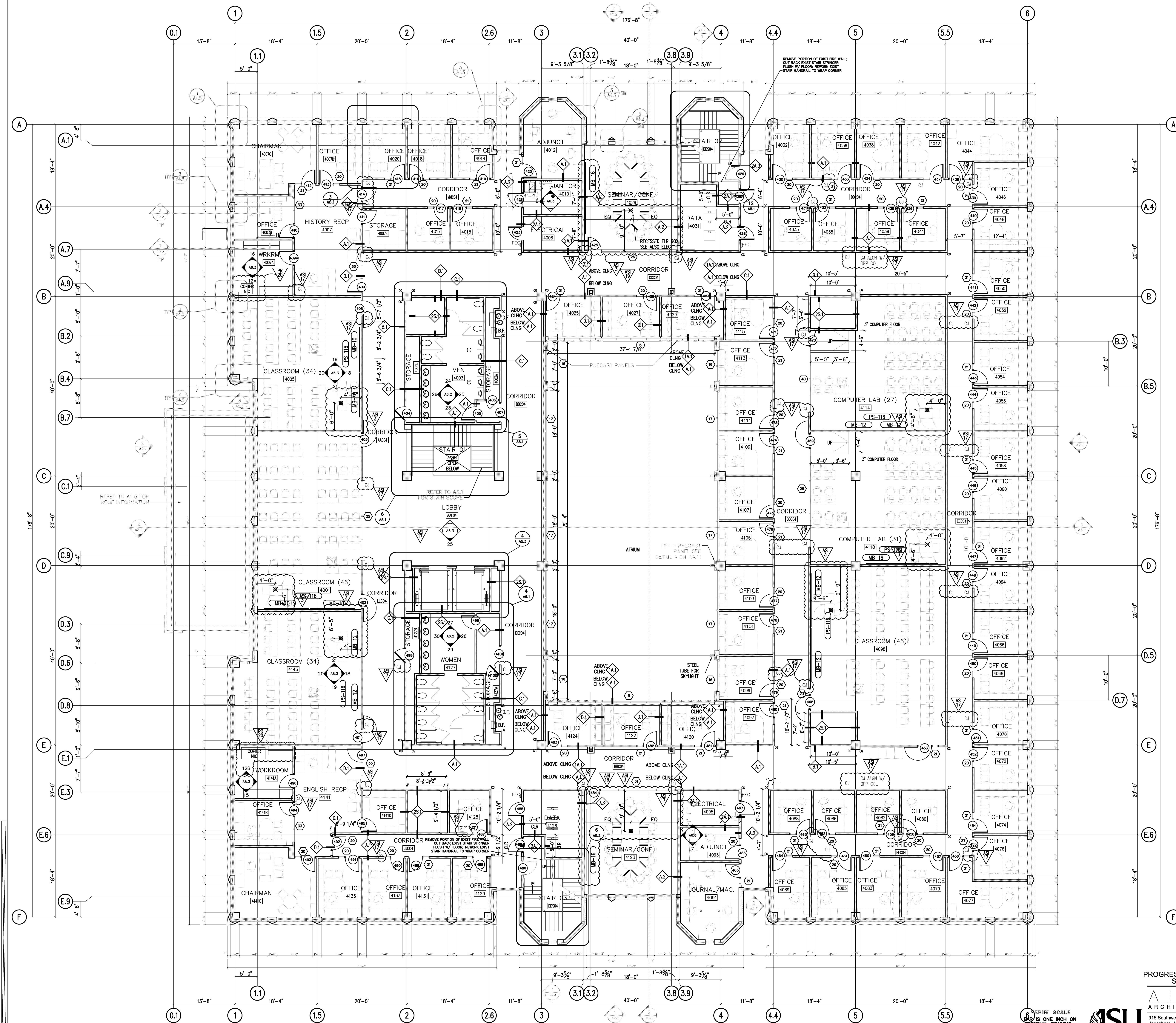
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NOTES:

1. REFER TO DRAWINGS A0.1 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.
2. ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
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7. REFER TO SHEET A6.1-A6.4 FOR ADDITIONAL INFORMATION AND A8.1 FOR FINISHES.
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10. INTERIOR WINDOWS ARE KEYED ON FLOOR PLANS
11. REFER TO A6.1 FOR ENLARGED INTERIOR FLOOR PAVING PLAN.
12. REFER TO CIVIL DRAWINGS FOR SITE INFORMATION.



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 SHEET ISSUED 02/11/14



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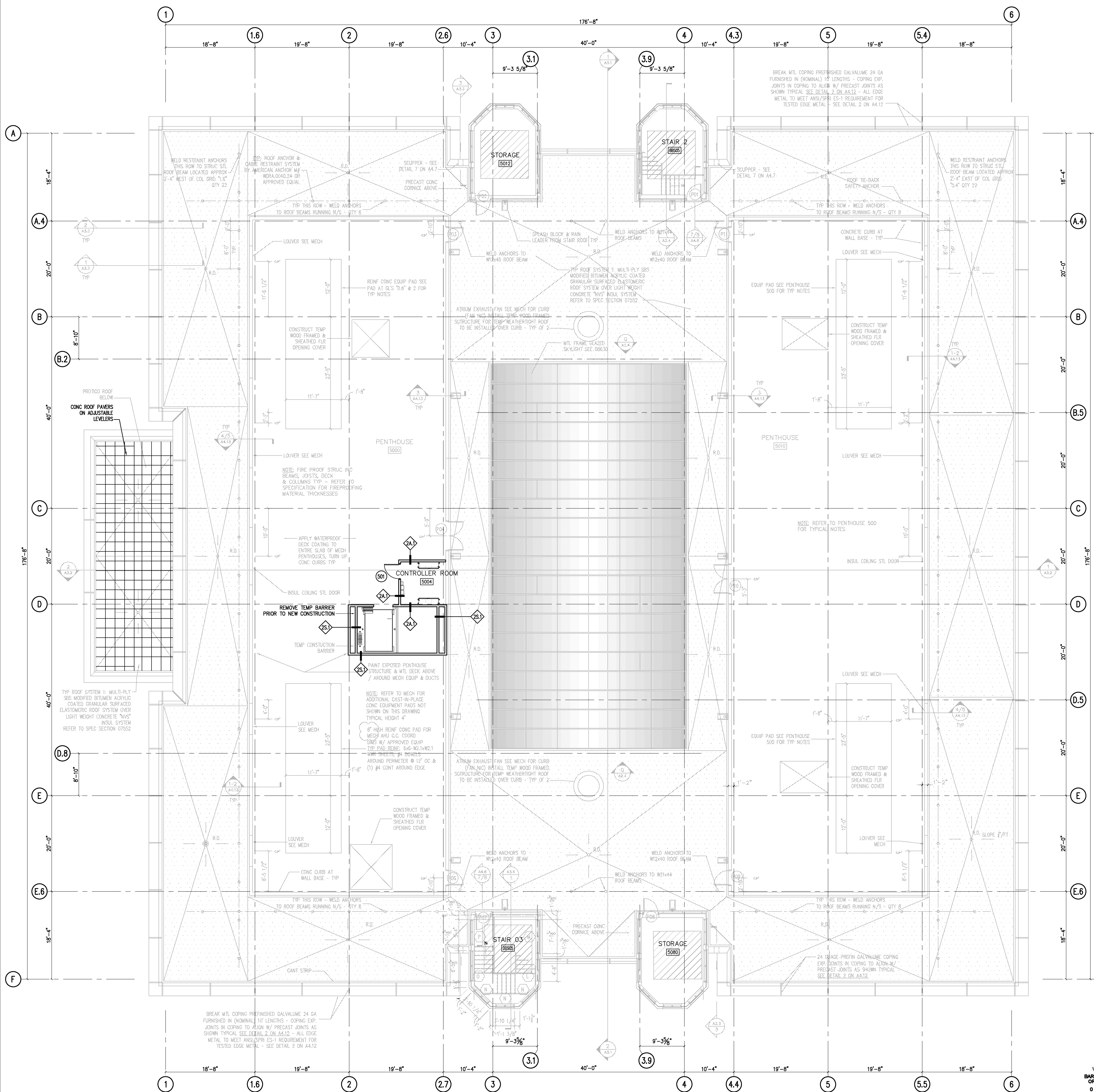
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 201 E. Markham St. 150
 Little Rock, AR 72201
 Location: Jonesboro, AR
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 501.375.6601 F
 Date: October 03, 2013
 Title: Forth Floor - Plan
 Sheet Number:



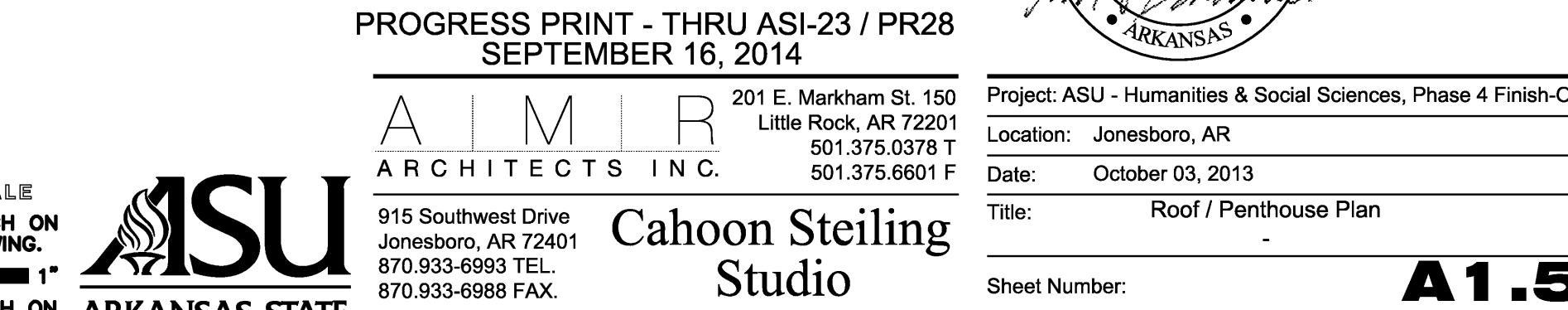
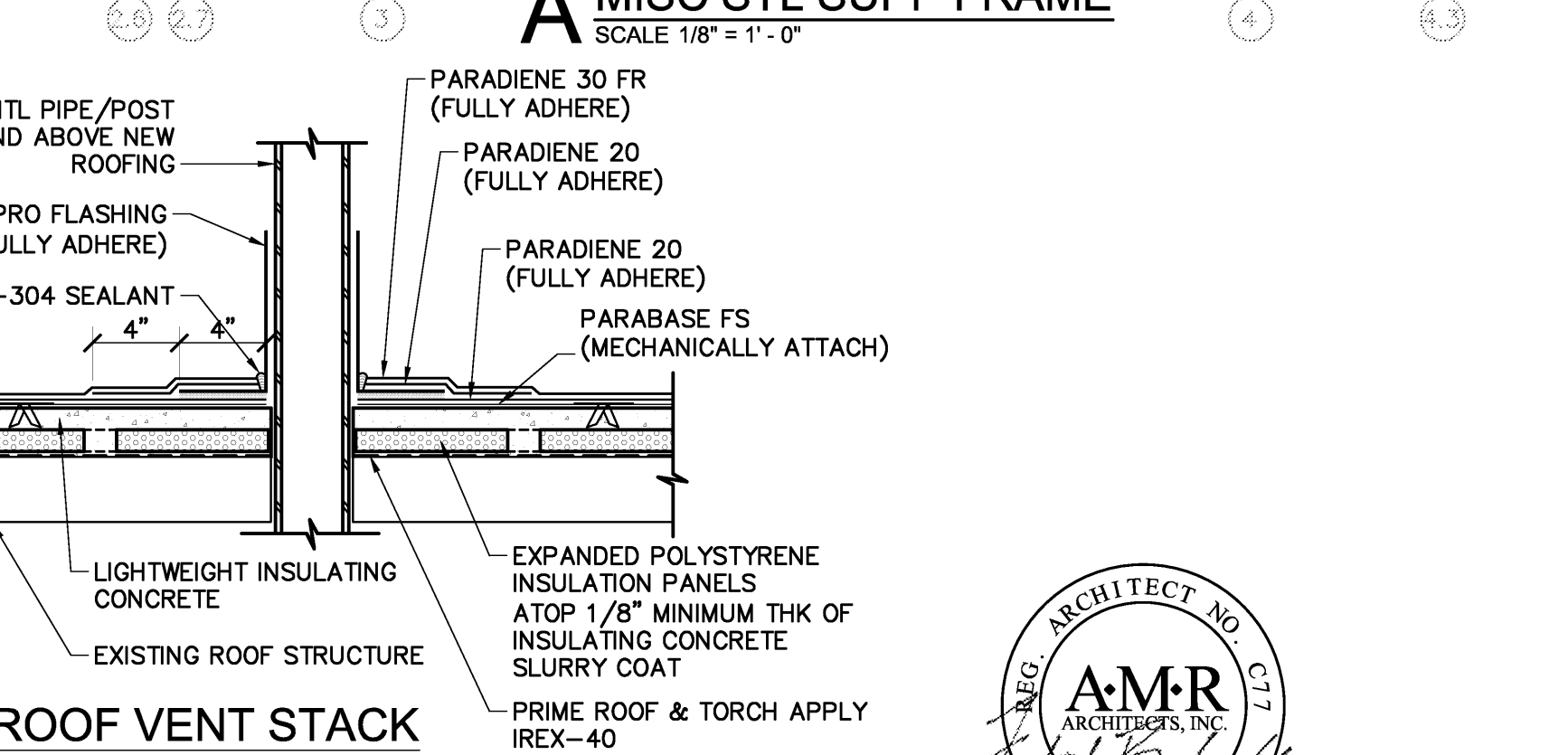
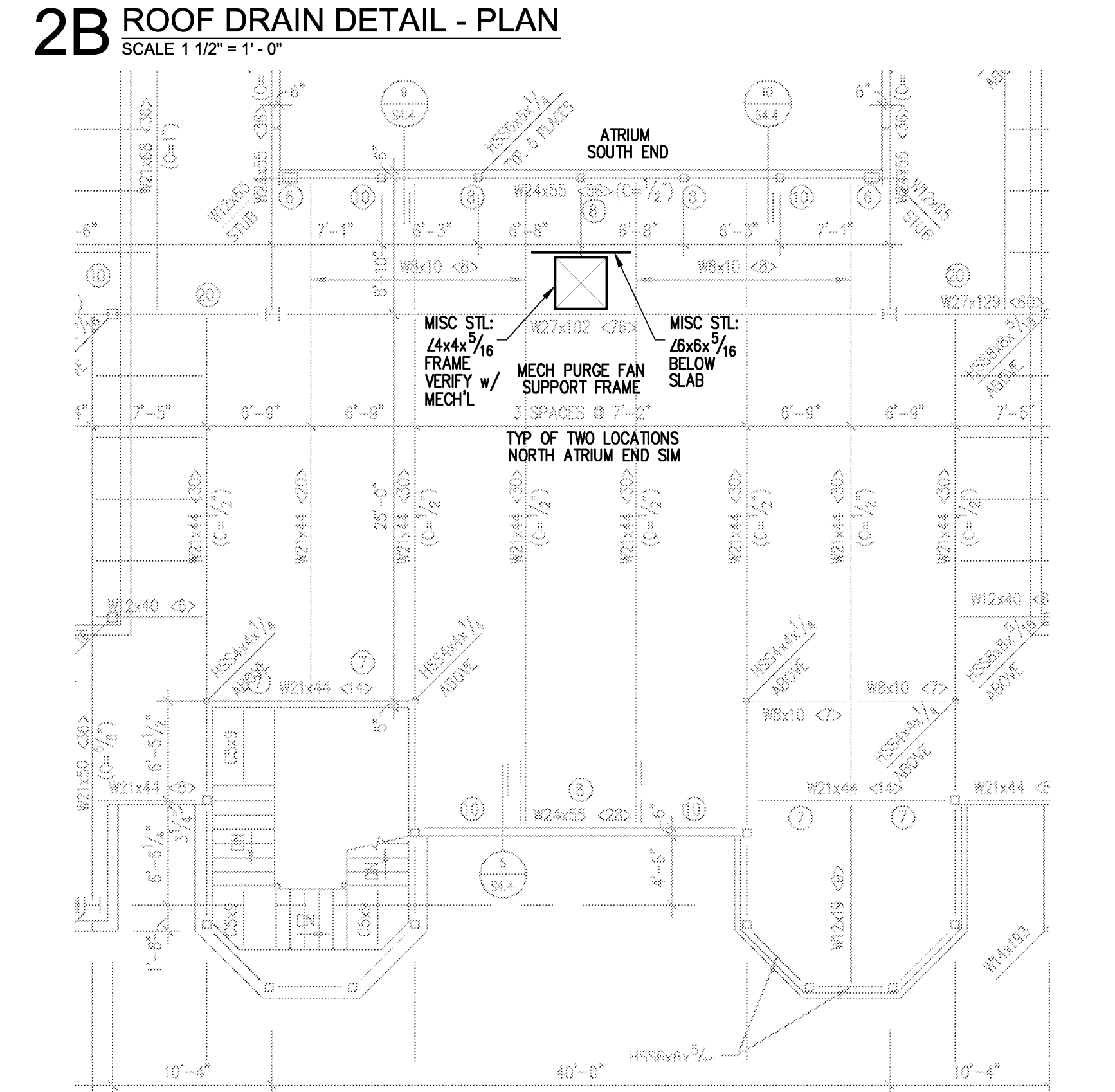
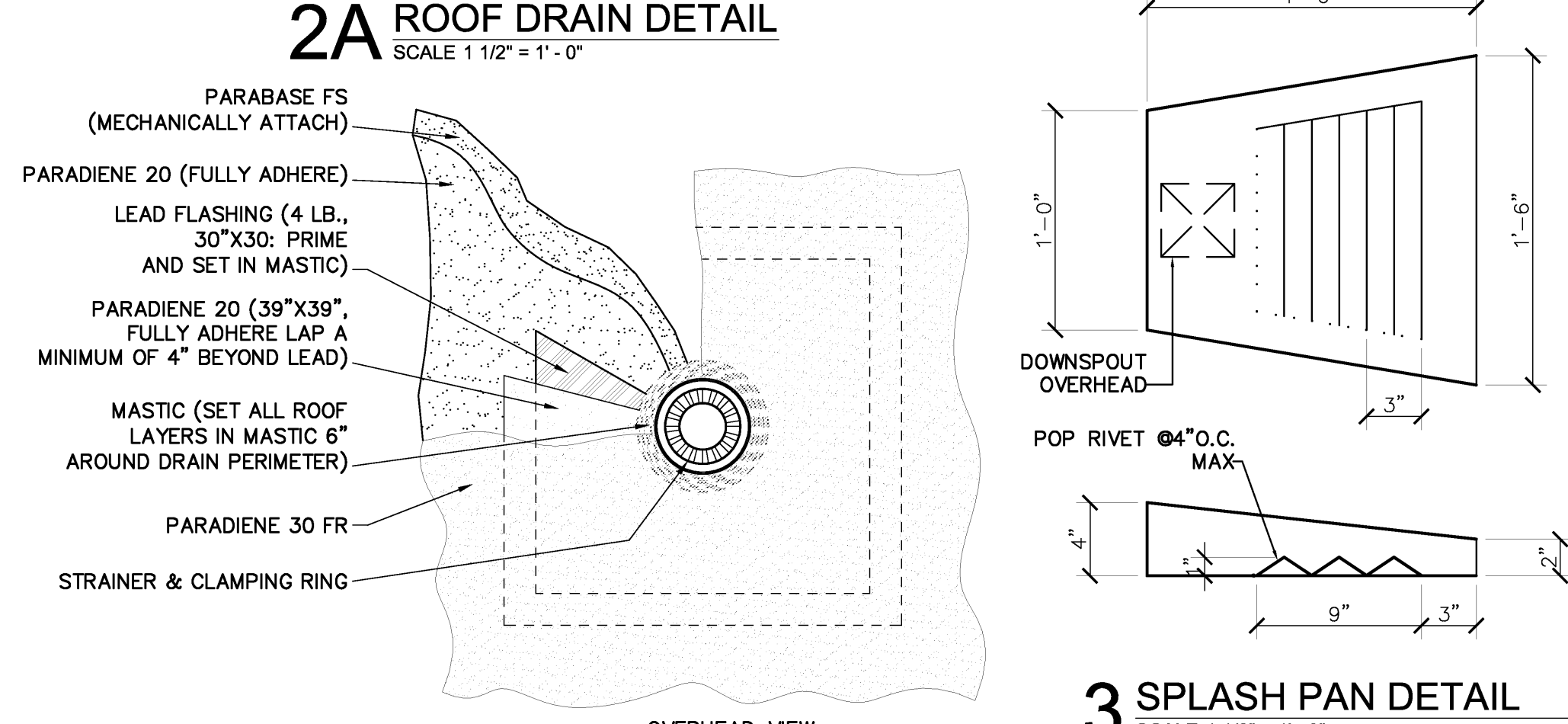
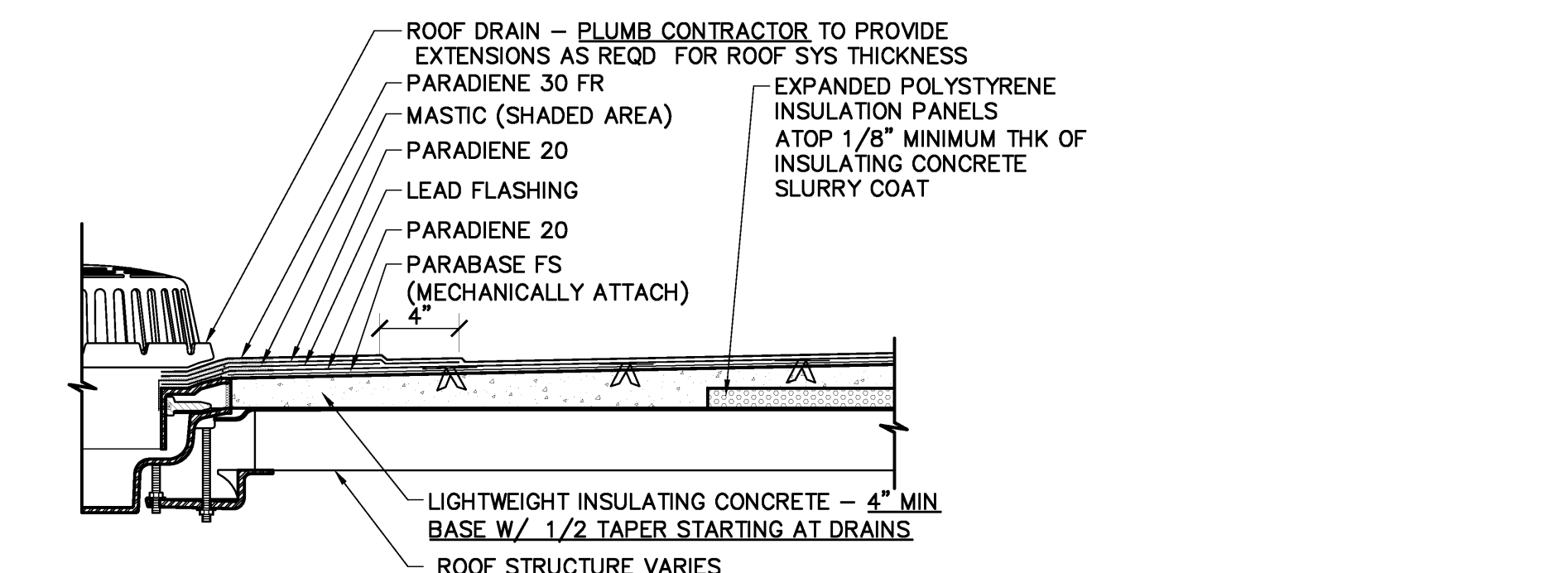
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A1.4



- NOTES:**
1. COPING, METAL EDGE TRIM, ROOF-EDGE FLASHING AND FLASHING SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET PERFORMANCE DESIGN CRITERIA ACCORDING TO ANSI/SPRI ESR-1. USE THE CURRENT EDITION OF ANSI/SPRI ESR-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
 2. DISCREPANCIES AND OMISSIONS IN DRAWINGS AND SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING FOR CLARIFICATION.
 3. IN SUBMITTING THEIR BID, THE CONTRACTOR ACKNOWLEDGES THAT THEY HAVE THOROUGHLY EXAMINED THE BID DOCUMENTS, SPECIFIED ROOFING SYSTEM, AND PROPOSED SUBSTRATE.
 4. THE CONTRACTOR SHALL SUBMIT WITH THEIR BID WRITTEN QUALIFICATIONS AS MAY BE REQUIRED FOR EVENT AMBIGUITIES, DISCREPANCIES OR OMISSIONS WHERE A FUNCTIONAL AND COMPLETE SYSTEM CANNOT BE PROVIDED AS TO THE INTENT.
 5. IF EVIDENT AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE ANY DOCUMENT IN THEIR BID THE MORE FAVORABLE METHOD BY WORD, OR INCLUDE AMBIGUOUS AS REQUIRED FOR A FUNCTIONAL AND COMPLETE SYSTEM UNLESS CLARIFICATION IS ISSUED BY ADDENDA.
 6. IN ADDITION TO THE ROOFING SYSTEM MANUFACTURER'S DIRECTLY APPLICABLE STANDARD WIND DETAIL, THE CONTRACTOR SHALL INCLUDE WITH THEIR SUBMITTAL:
 - A ROOF PLAN DRAWING TO SCALE KEPT TO STANDARD AND ATYPICAL DETAILS, DIMENSIONS LOCATING ROOF DRAINS, EQUIPMENT CURBS, VENT STACKS, ACCESS HATCHES, SCISSOR AND MECH SUPPORTS.
 - A TYPICAL OR NONSTANDARD DETAILS AS ILLUSTRATED IN THESE CONTRACT DRAWINGS SHALL BE REVIEWED WITH THE ROOFING MANUFACTURER. THE CONTRACTOR SHALL SUBMIT THE PROPOSED MANUFACTURER'S INTERPRETATIONS IN DRAWING DETAIL FORMAT OF THE SAME SCALE AS PROVIDED IN THESE CONTRACT DOCUMENTS.
 7. SUBMITTALS THAT DO NOT INCLUDE THE MANUFACTURER'S DIRECTLY APPLICABLE STANDARD DETAILS TO SCALE LEVED ROOF PLAN AND ATYPICAL DETAILS WILL BE REJECTED AND RETURNED TO THE BIDDER WITHOUT REVIEW.
 8. REFER TO MECHANICAL, ELECTRICAL & PLUMBING FOR ADDITIONAL SCOPE.
 9. U.C. CURB - EQUIP & FLUE CURBS TYPICALLY BY MECH CONTRACTOR.



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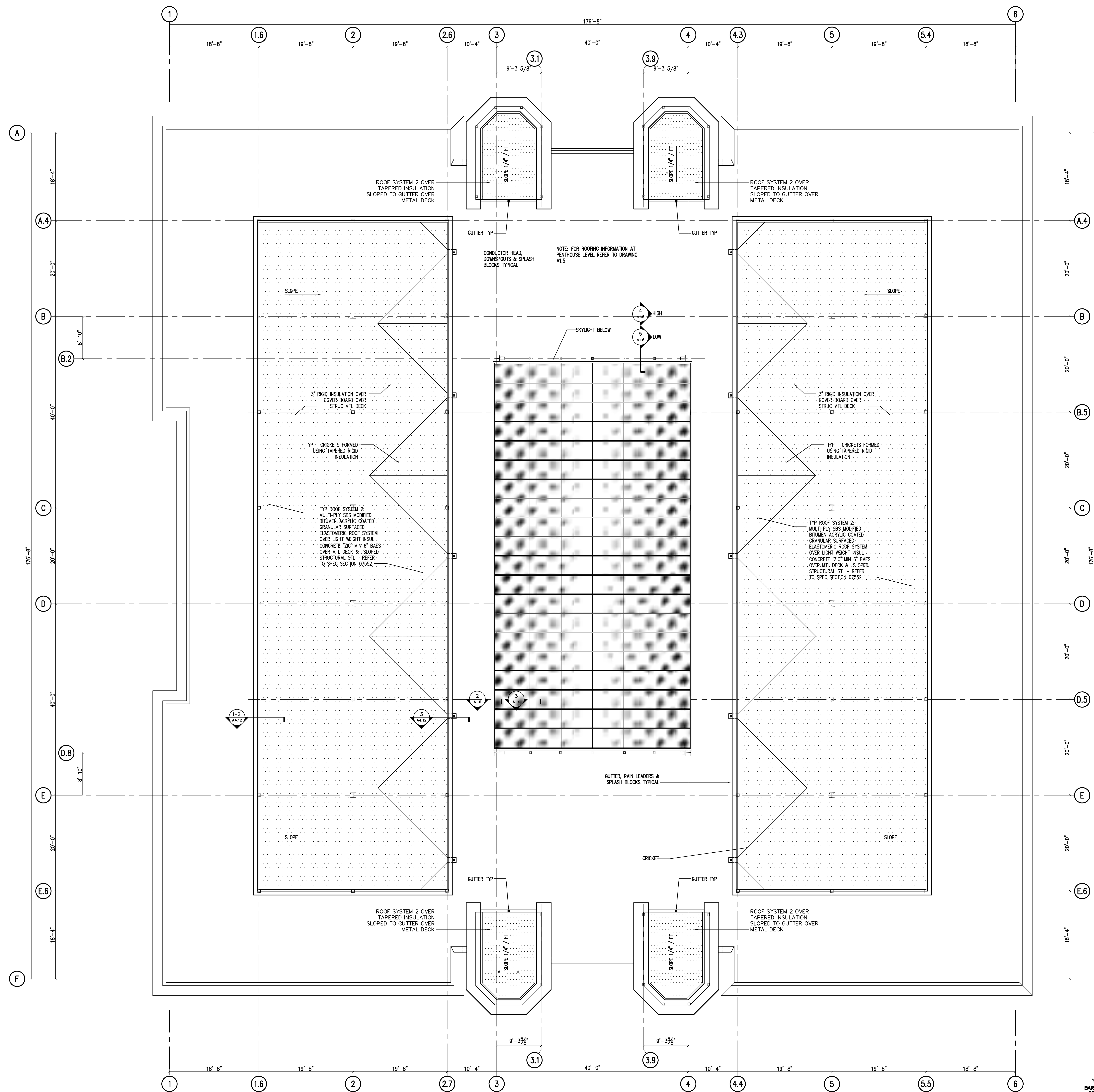
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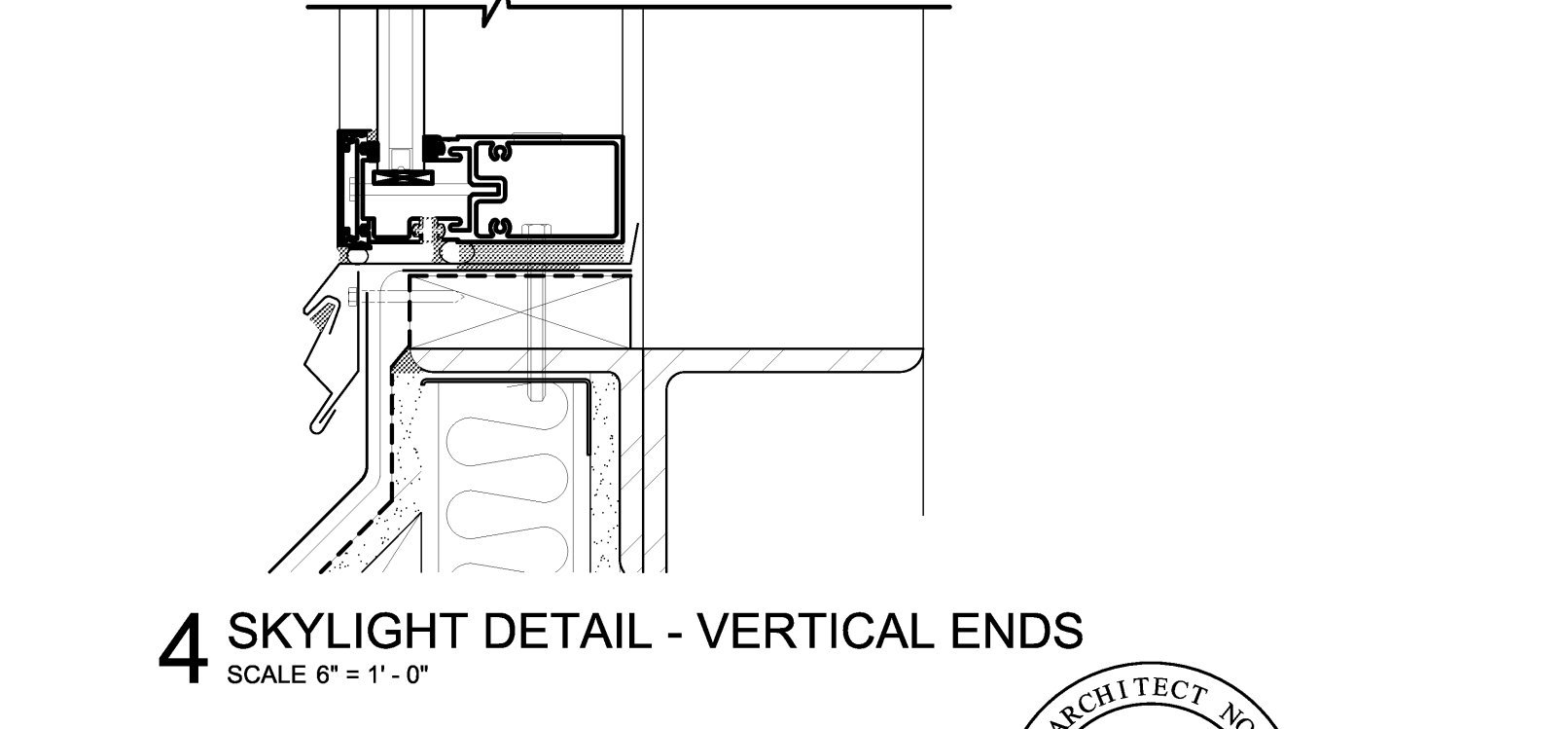
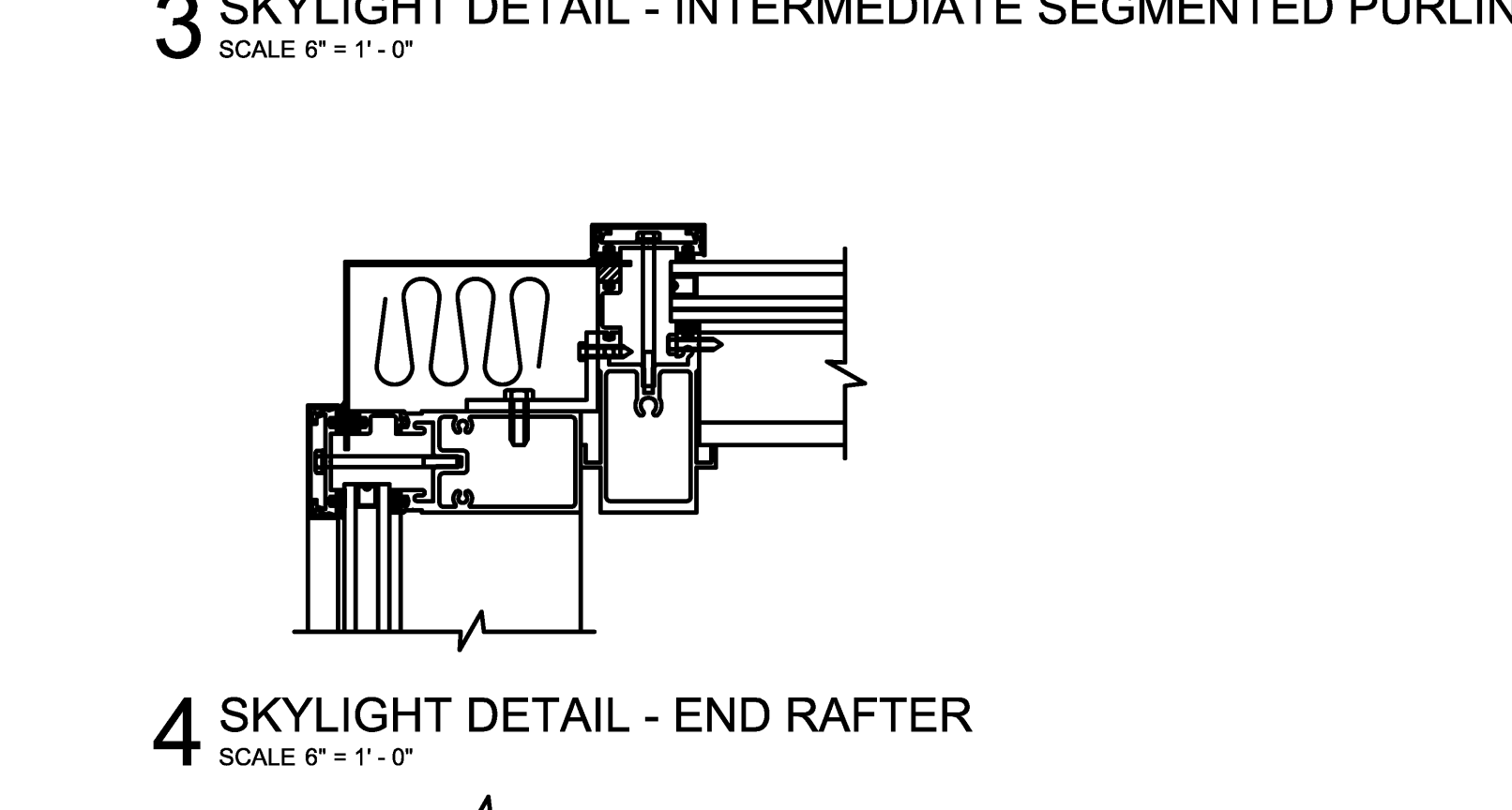
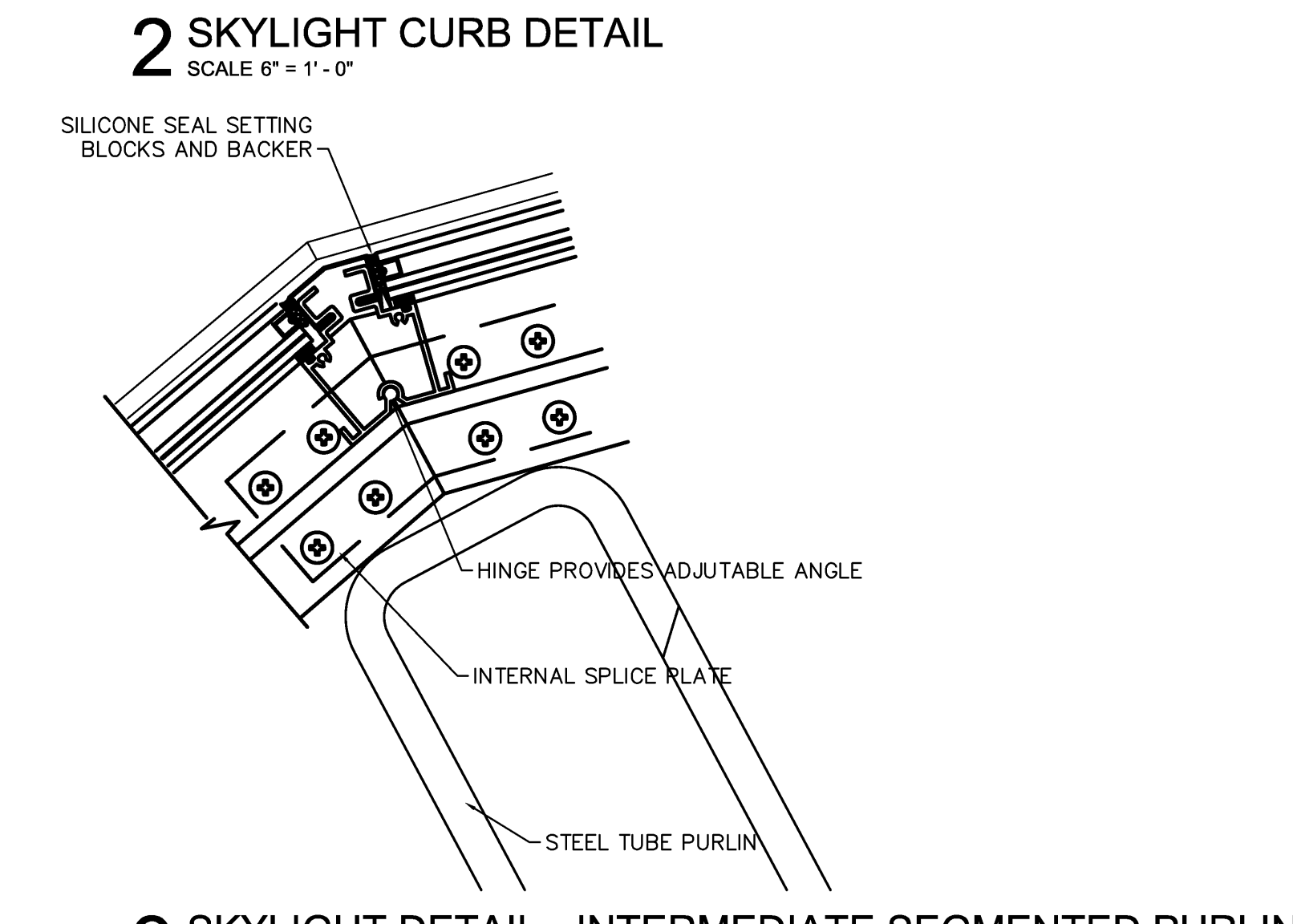
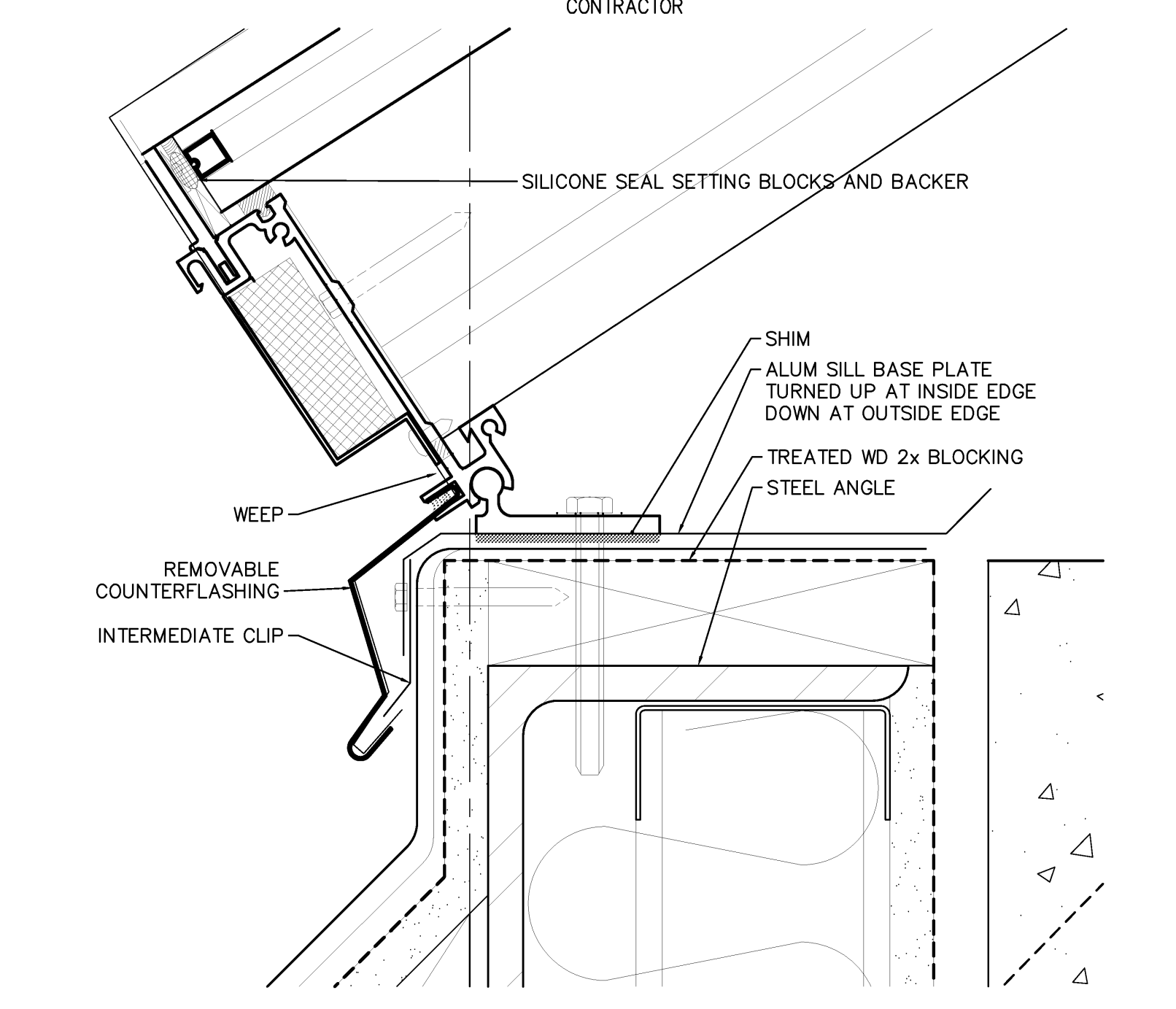
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501.375.6601 F

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Roof / Penthouse Plan
Sheet Number: **A1.5**



- NOTES:**
1. COPINGS, METAL EDGE TRIM, ROOF-EDGE FLASHING AND FLASHING SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET PERFORMANCE DESIGN CRITERIA ACCORDING TO ANSI/SPRI ES-1. USE THE CURRENT EDITION OF ANSI-SPRI ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
 2. DISCREPANCIES AND OMISSIONS IN DRAWINGS AND SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IN WRITING FOR CLARIFICATION.
 3. IN SUBMITTING THEIR BID, THE CONTRACTOR ACKNOWLEDGES THAT THEY HAVE THOROUGHLY EXAMINED THE BID DOCUMENTS, SPECIFIED ROOFING SYSTEMS, AND PROPOSED SUBSTRATES.
 4. THE CONTRACTOR SHALL SUBMIT WITH THEIR BIDS WRITTEN QUALIFICATIONS AS MAY BE REQUIRED FOR EVIDENT AMBIGUITIES, DISCREPANCIES OR OMISSIONS WHERE A FUNCTIONAL AND COMPLETE SYSTEM CANNOT BE PROVIDED AS IS THE INTENT.
 5. IF EVIDENT AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE AND DOCUMENT IN THEIR BID THE MORE EXPENSIVE METHOD OF WORK, OR INCLUDE MATERIALS AS REQUIRED FOR A FUNCTIONAL AND COMPLETE SYSTEM UNLESS CLARIFICATION IS ISSUED BY ADDENDA.
 6. IN ADDITION THE ROOFING SYSTEM MANUFACTURER'S DIRECTLY APPLICABLE STANDARD ROOF DETAILS, THE CONTRACTOR SHALL INCLUDE WITH THEIR SUBMITTAL:
 - A ROOF PLAN DRAWING TO SCALE KEYS TO STANDARD AND ATYPICAL DETAILS, DIMENSIONS LOCATING ROOF DRAINS, EQUIPMENT CURBS, VENT STACKS, ACCESS HATCHES, SCREENS AND MISC SUPPORTS.
 - ATYPICAL OR NONSTANDARD DETAILS AS ILLUSTRATED IN THESE CONTRACT DRAWINGS SHALL BE REVIEWED WITH THE ROOFING MANUFACTURER. THE CONTRACTOR SHALL SUBMIT THE PROPOSED MANUFACTURER'S INTERPRETATIONS IN DRAWING DETAIL FORMAT OF THE SAME SCALE AS PROVIDED IN THESE CONTRACT DOCUMENTS.
 7. SUBMITTALS THAT DO NOT INCLUDE THE MANUFACTURER'S DIRECTLY APPLICABLE STANDARD DETAILS, TO SCALE KEYS TO ROOF PLAN, AND ATYPICAL DETAILS WILL BE NONCOMPLIANT AND RETURNED AS IS WITHOUT REVIEW.
 8. REFER TO MECHANICAL, ELECTRICAL & PLUMBING FOR ADDITIONAL SCOPE.
 9. G.C. COORD - EQUIP & FLUE CURBS TYPICALLY BY MECH CONTRACTOR



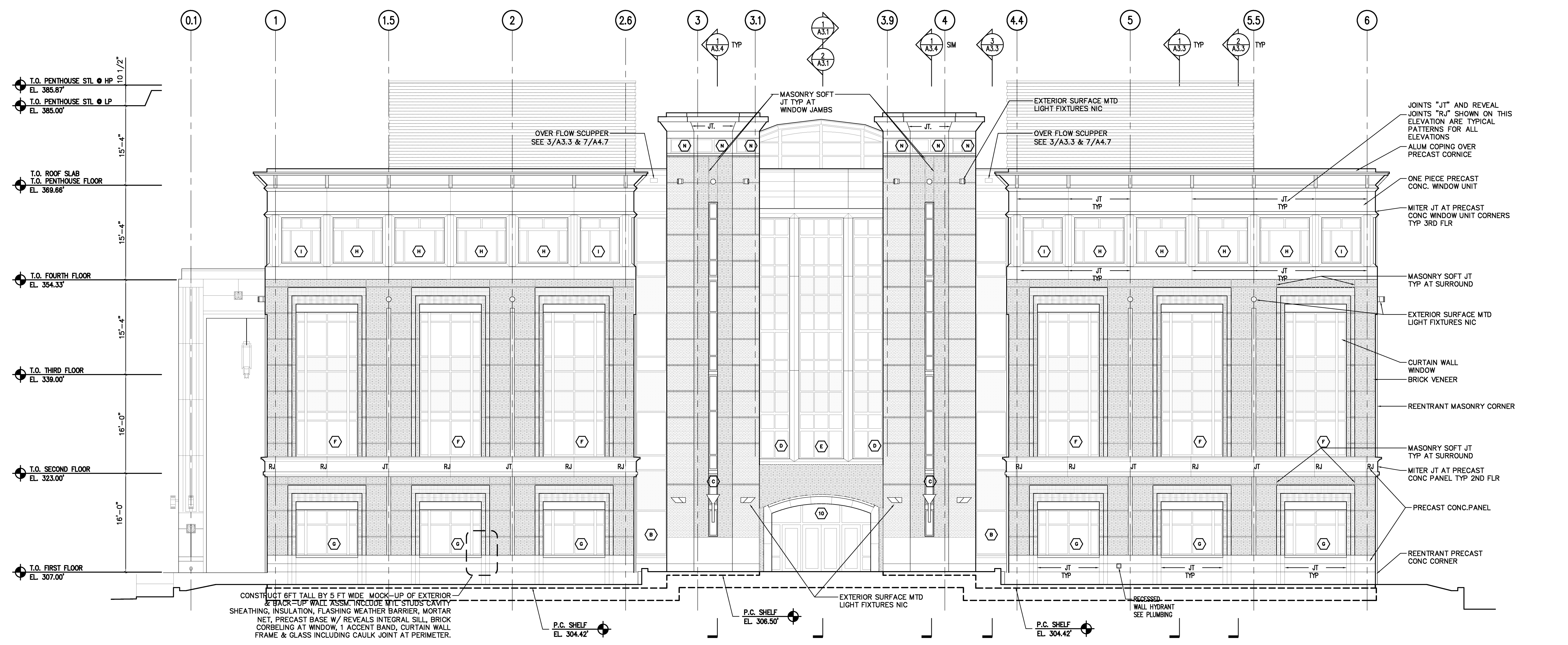
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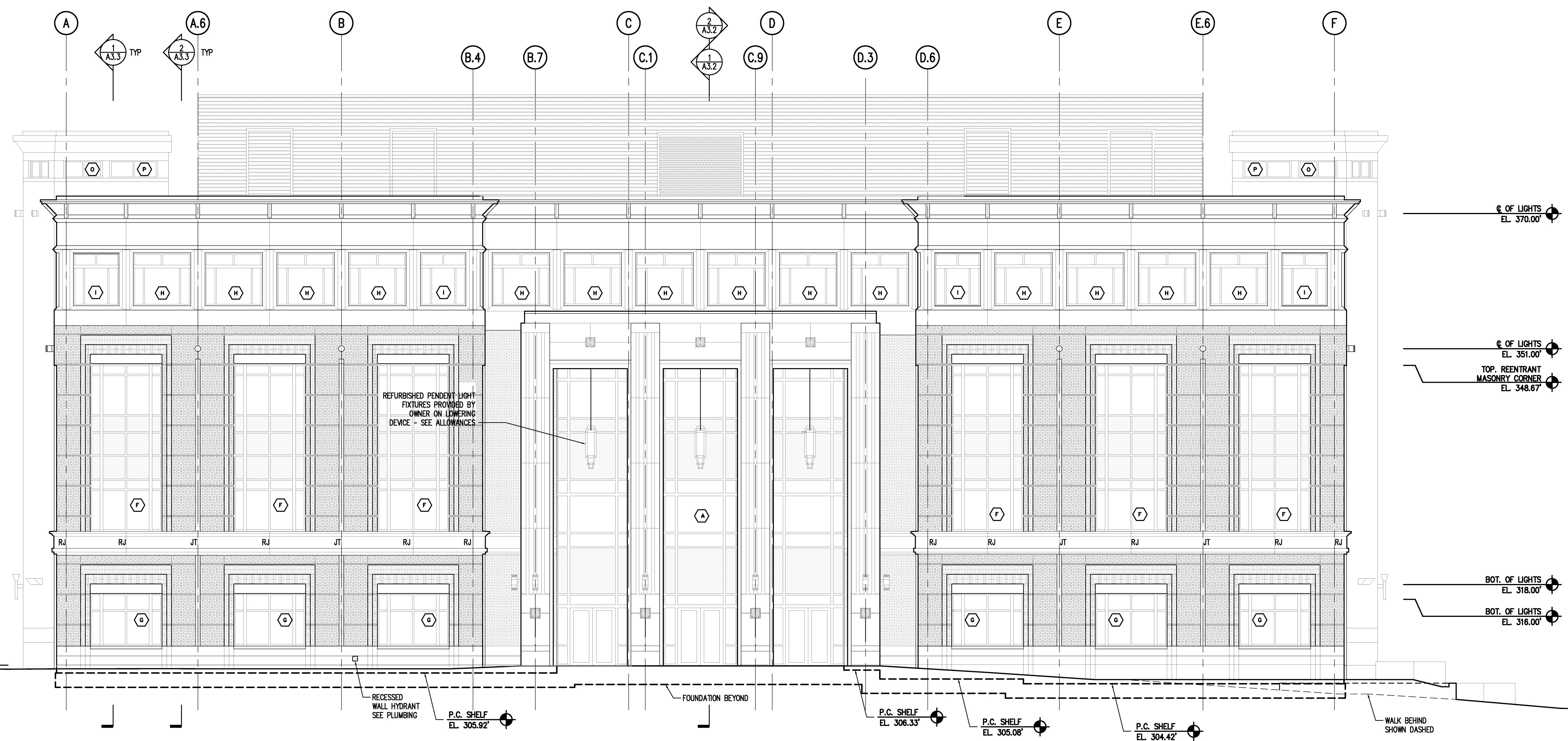

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 501.375.0378 F
 501.375.6601 F

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: Penthouse Roof Plan
 Sheet Number: **A1.6**

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1 SOUTH ELEVATION
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2 WEST ELEVATION
SCALE 1/8" = 1' - 0"

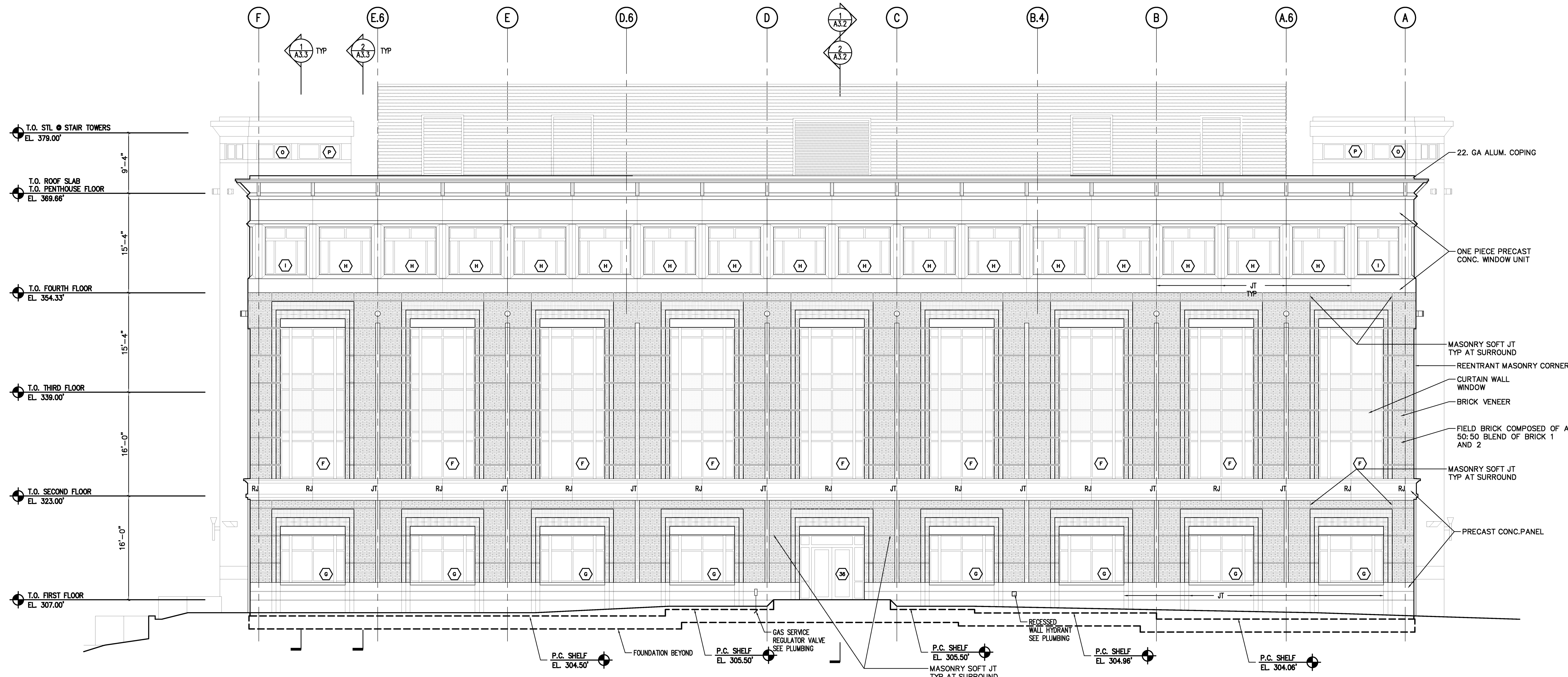
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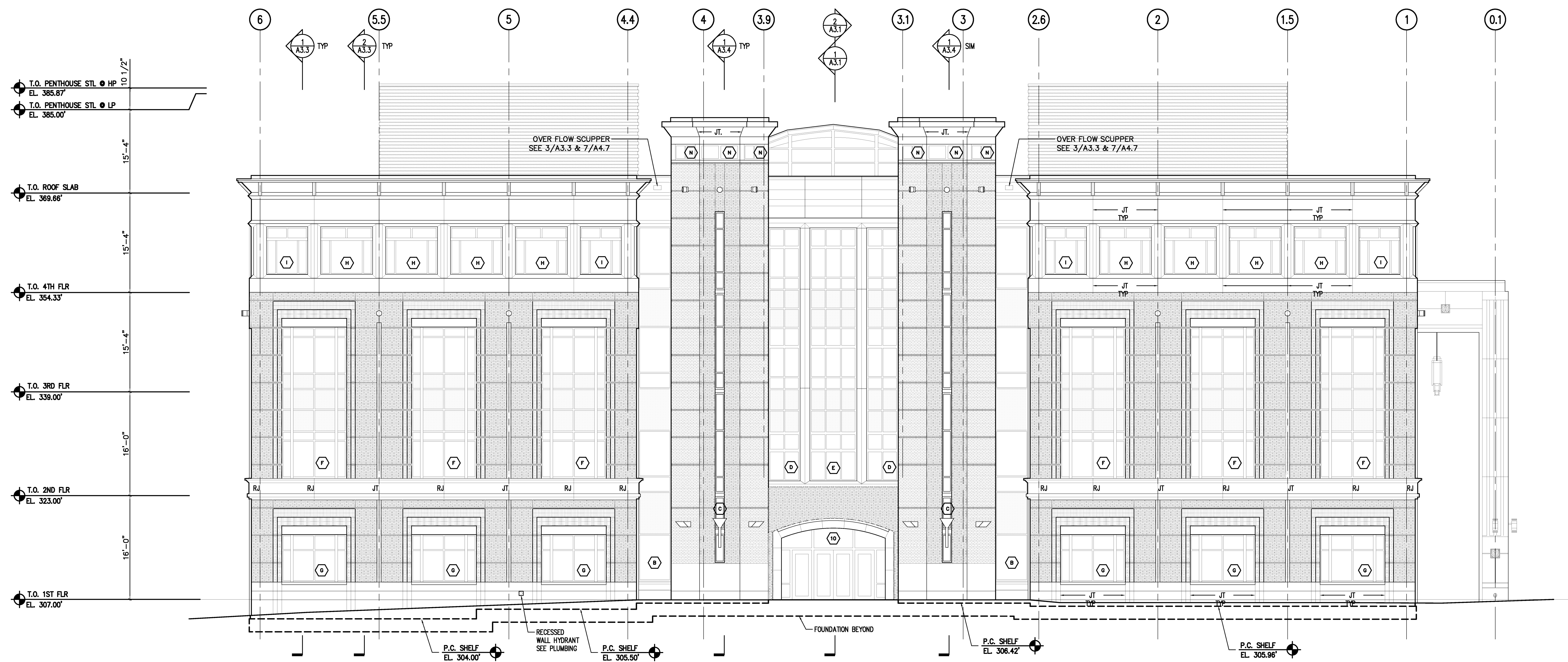
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Exterior Elevations South & West
Sheet Number: **A2.1**

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



2 NORTH ELEVATION
SCALE 1/8" = 1'-0"

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



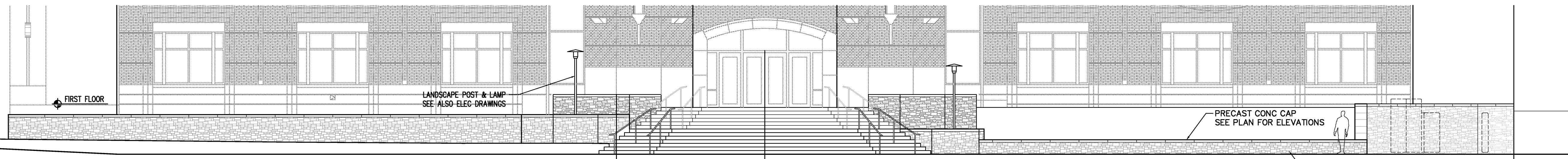
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Cahoon Steiling Studio
 915 Southwest Drive
 Jonesboro, AR 72401
 870.933-6993 TEL.
 870.933-6988 FAX.
 Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: Exterior Elevations East & North
 Sheet Number: **A2.2**



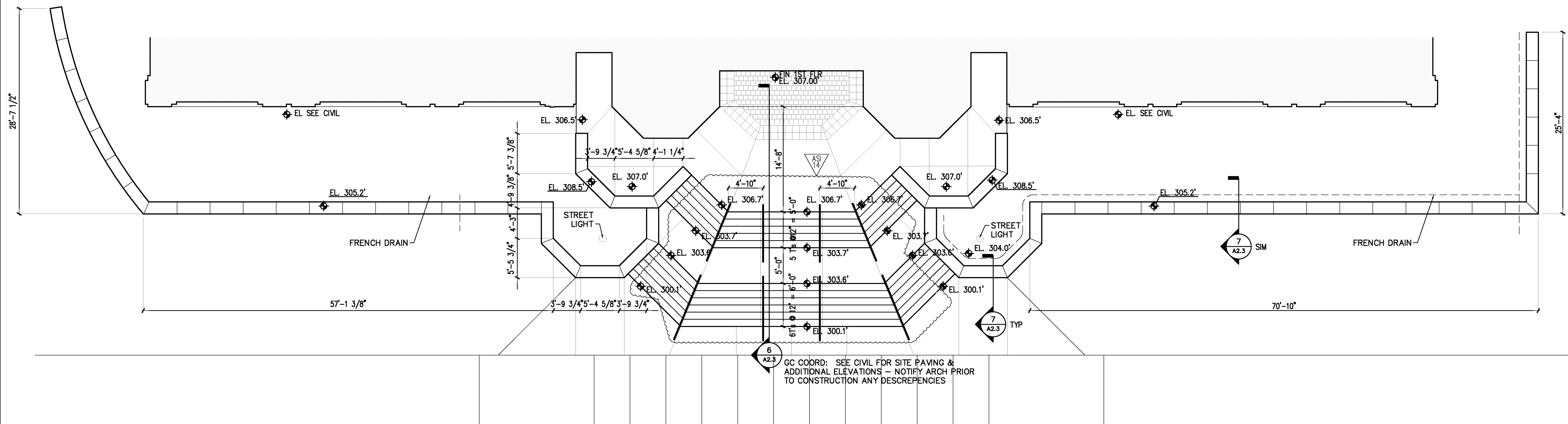
1 NOT USED
SCALE 1/8" = 1'-0"

2 NOT USED
SCALE 1/8" = 1'-0"

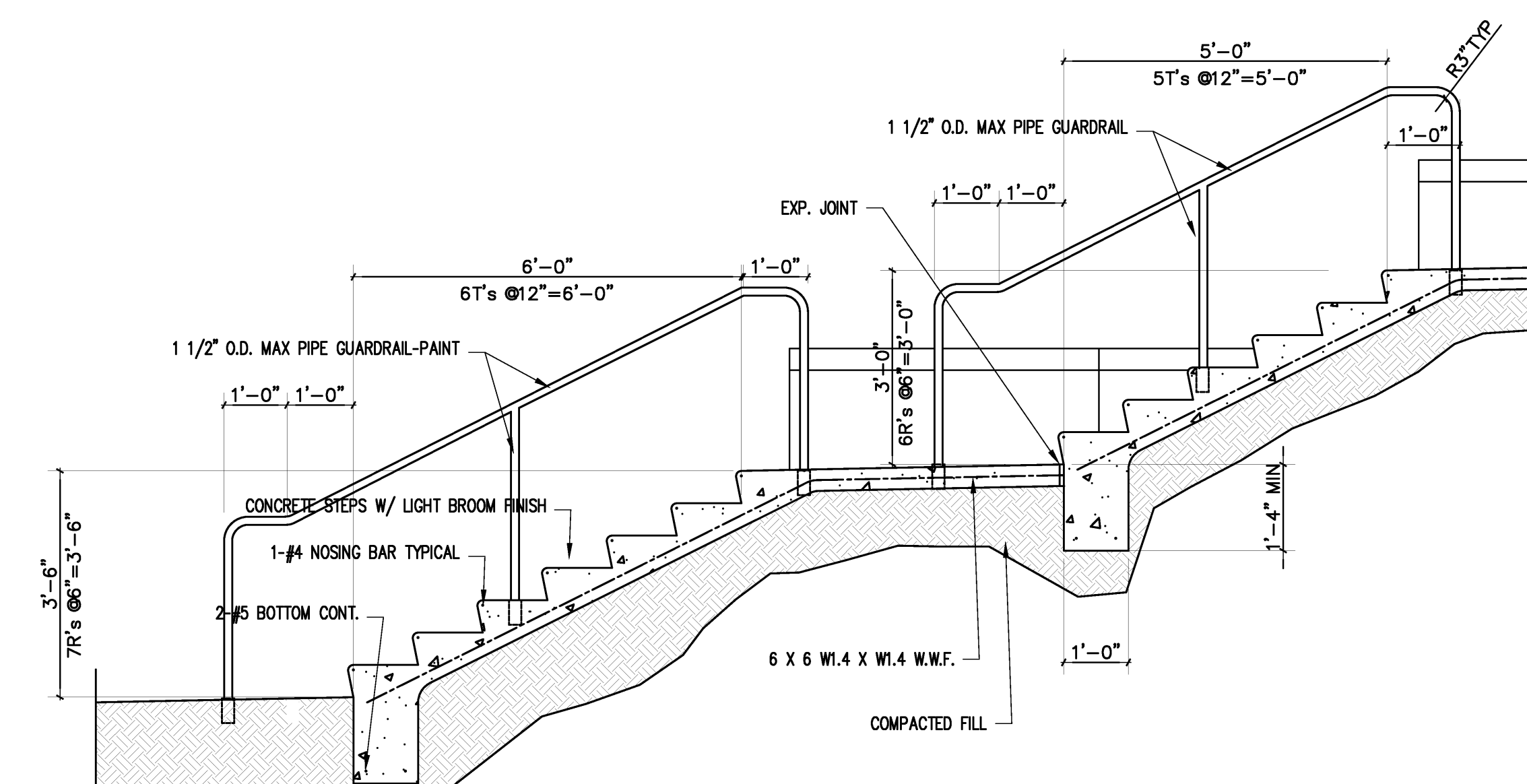
3 NOT USED
SCALE 1/8" = 1'-0"



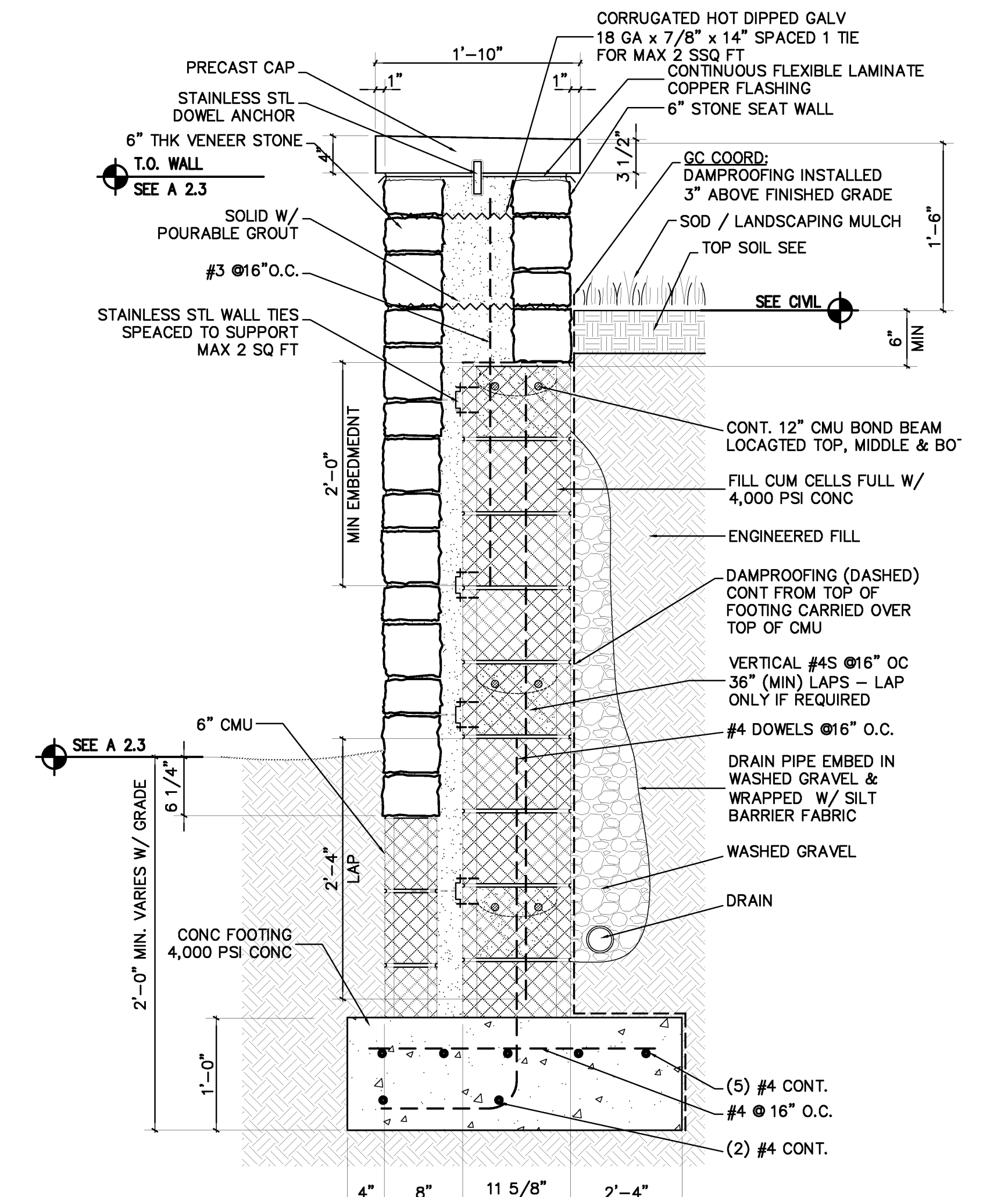
4 PARTIAL ELEVATION
SCALE 1/8" = 1'-0"



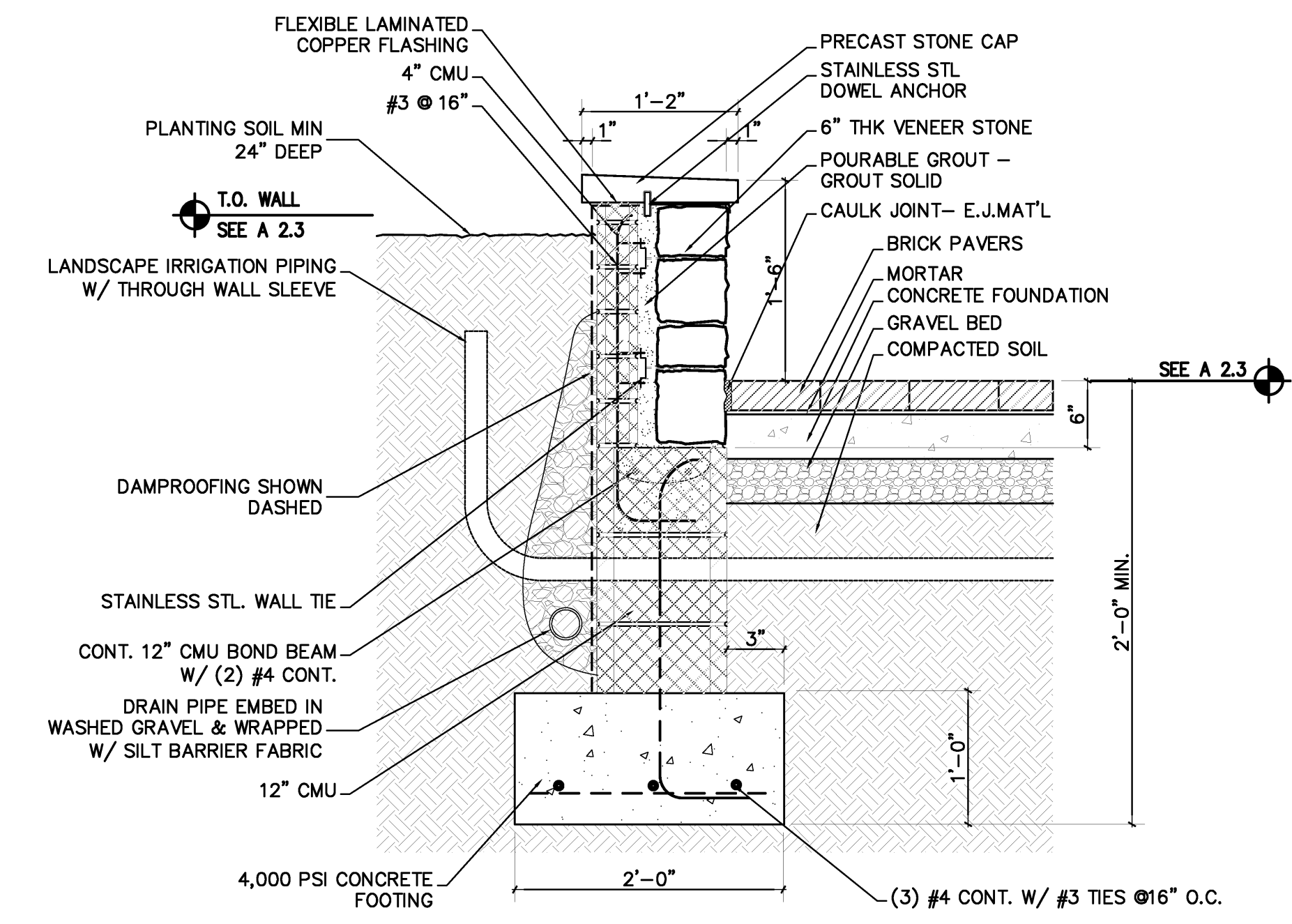
5 STAIR PLAN
SCALE 1/8" = 1'-0"



6 STAIR SECTION
SCALE 1/2" = 1'-0"



7 RETAINING WALL SECTION
SCALE 1" = 1'-0"



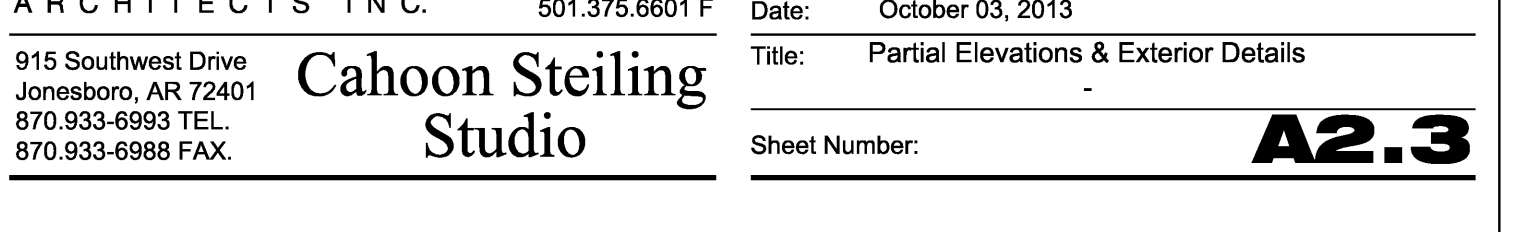
8 PLANTER WALL SECTION
SCALE 1" = 1'-0"

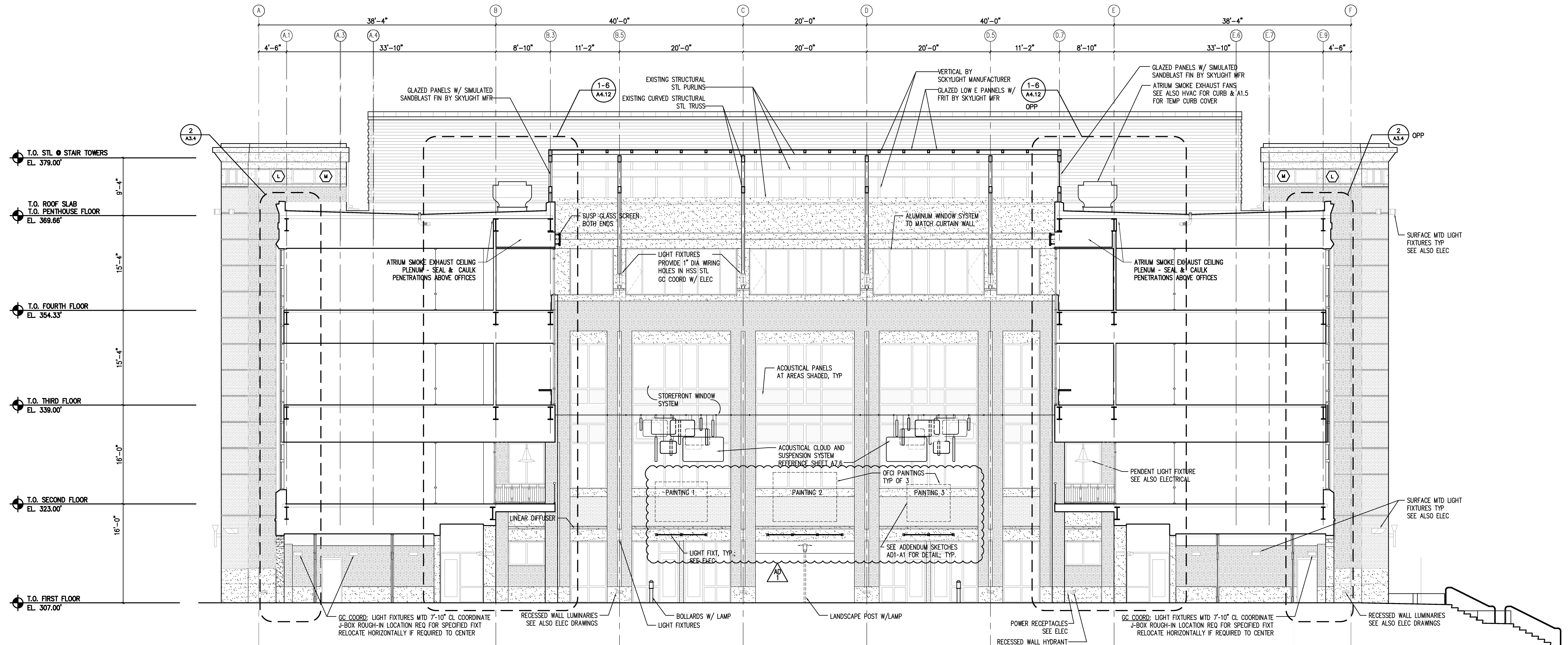
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Location: Jonesboro, AR 501.375.0378 F 501.375.6601 F
Date: October 03, 2013
Title: Partial Elevations & Exterior Details

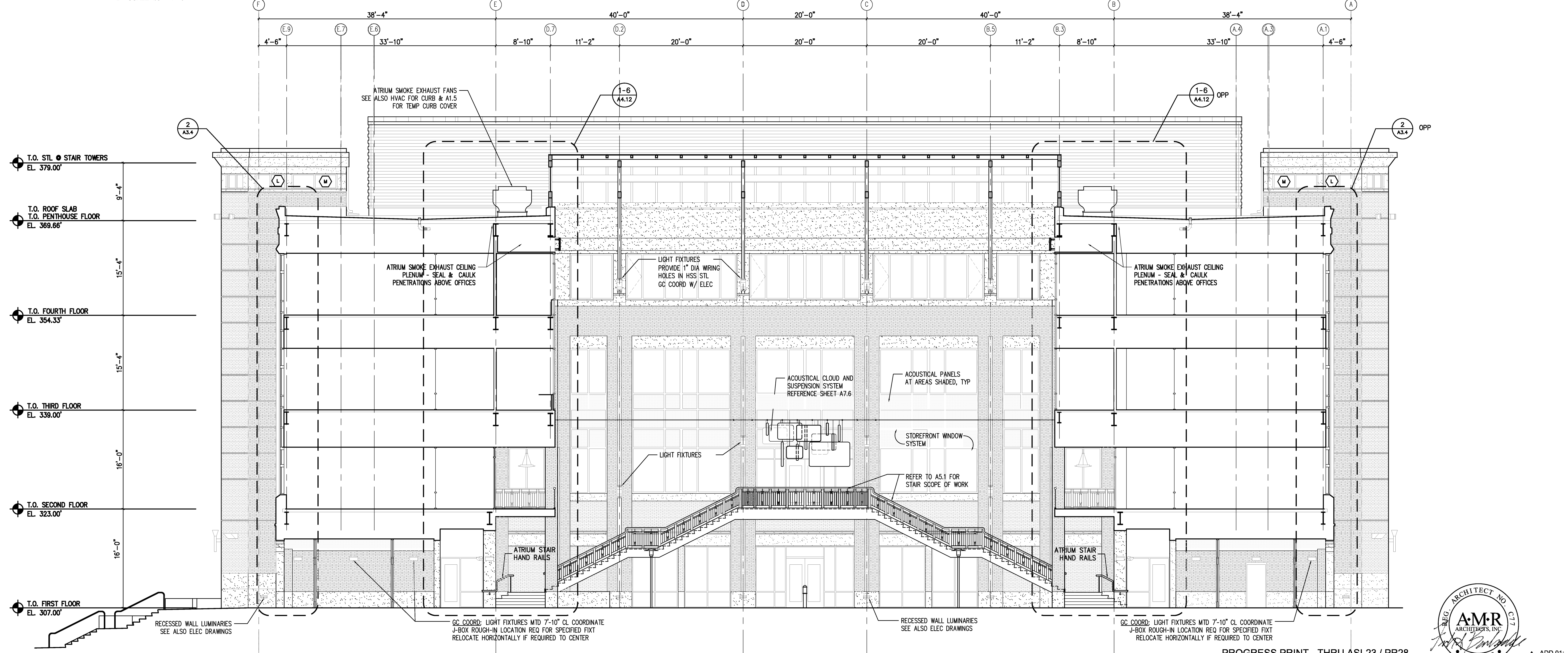
Arkansas State University Cahoon Steiling Studio
Sheet Number: A2.3

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1 BUILDING SECTION LOOKING EAST
SCALE 1/8" = 1'-0"



2 BUILDING SECTION LOOKING WEST
SCALE 1/8" = 1'-0"

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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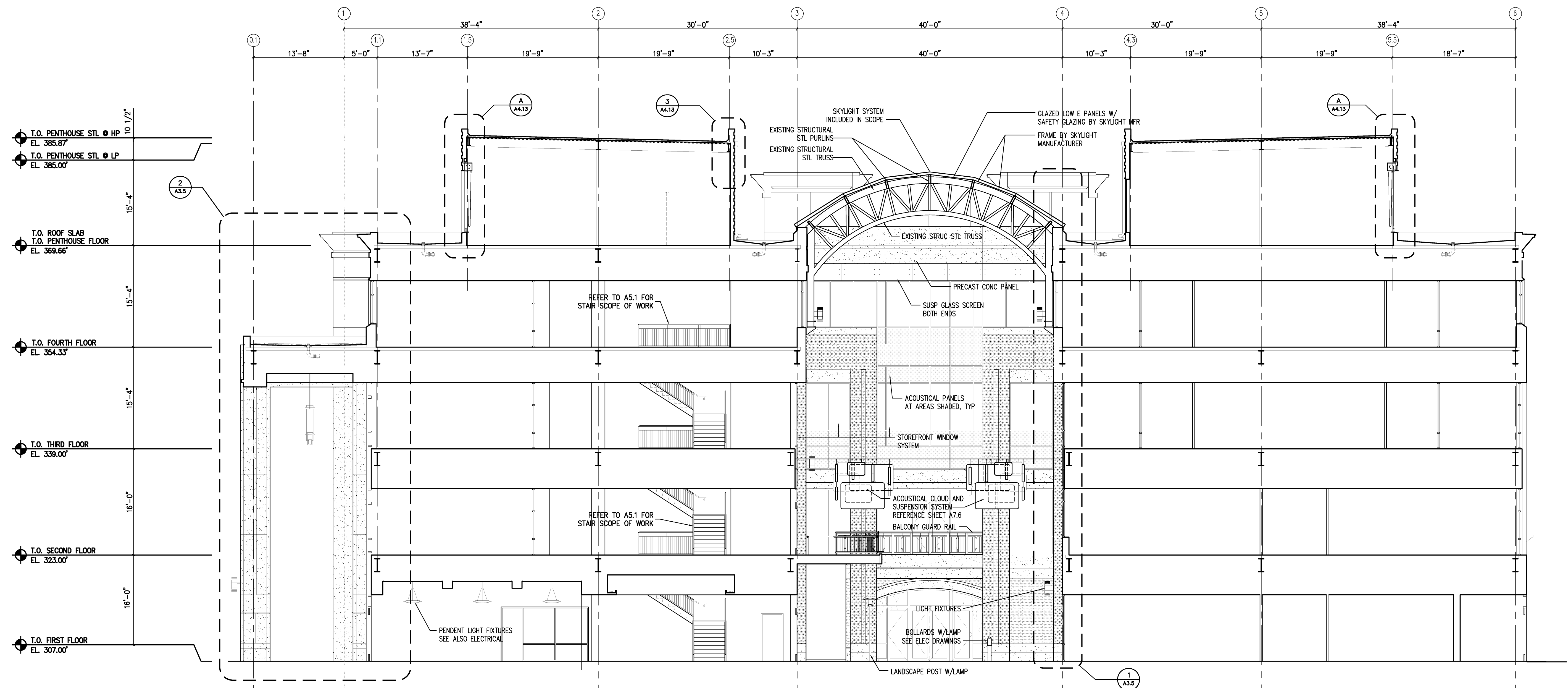
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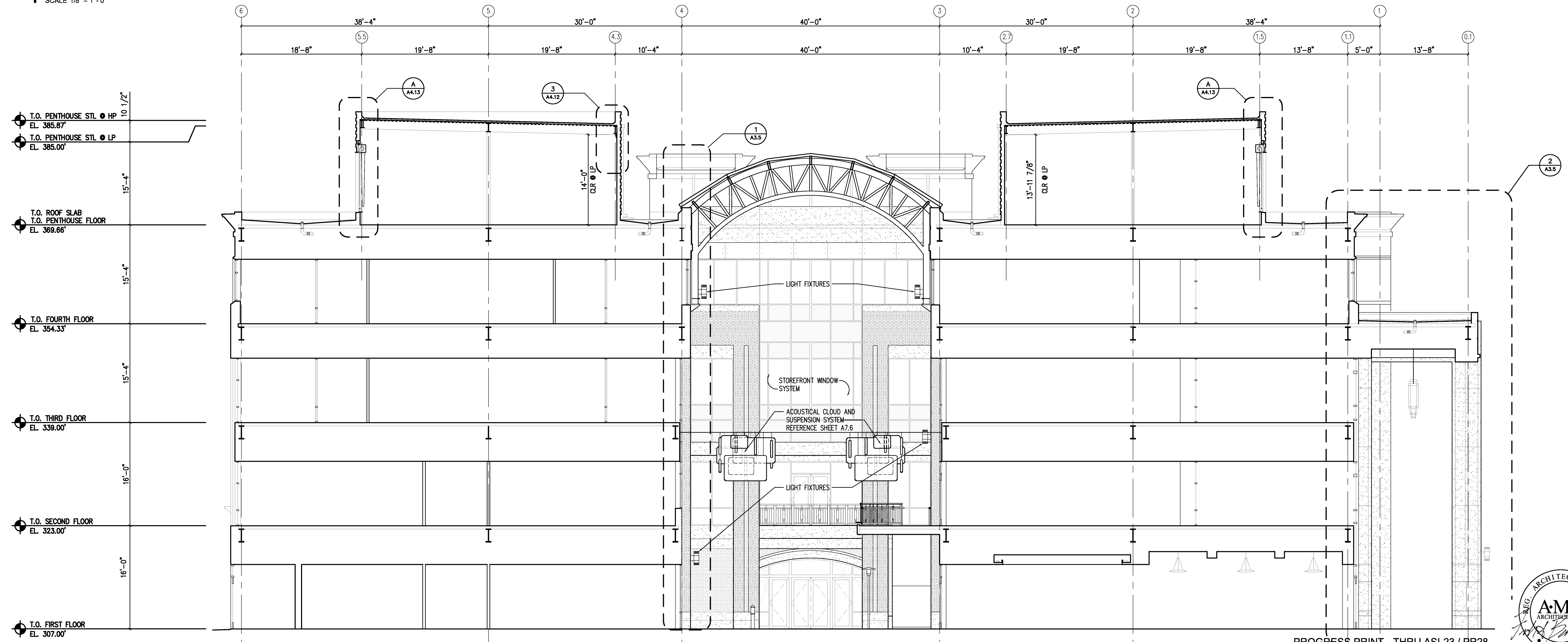
Cahoon Steiling Studio

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: BUILDING SECTIONS
Sheet Number: **A3.1**

ADD 01: DATED: OCT. 17, 2013



1 BUILDING SECTION LOOKING NORTH
SCALE 1/8" = 1' - 0"



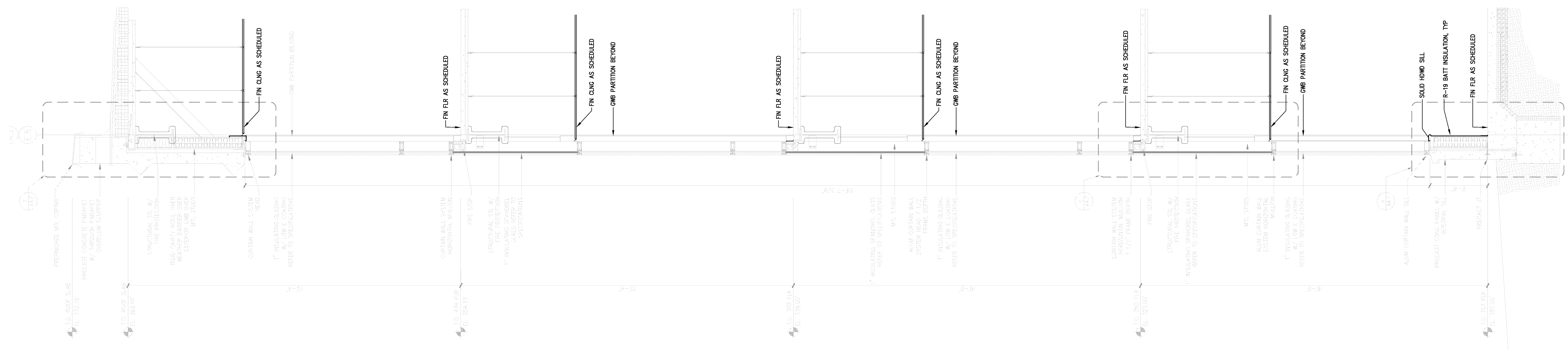
2 BUILDING SECTION LOOKING SOUTH
SCALE 1/8" = 1' - 0"

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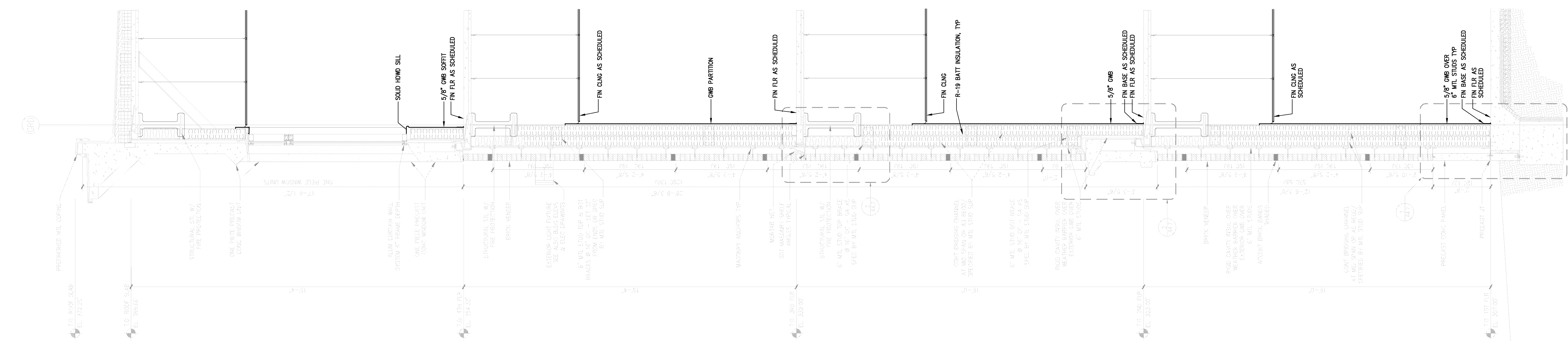
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Arkansas State University
Cahoon Steiling Studio
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: BUILDING SECTIONS
Sheet Number: **A3.2**

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

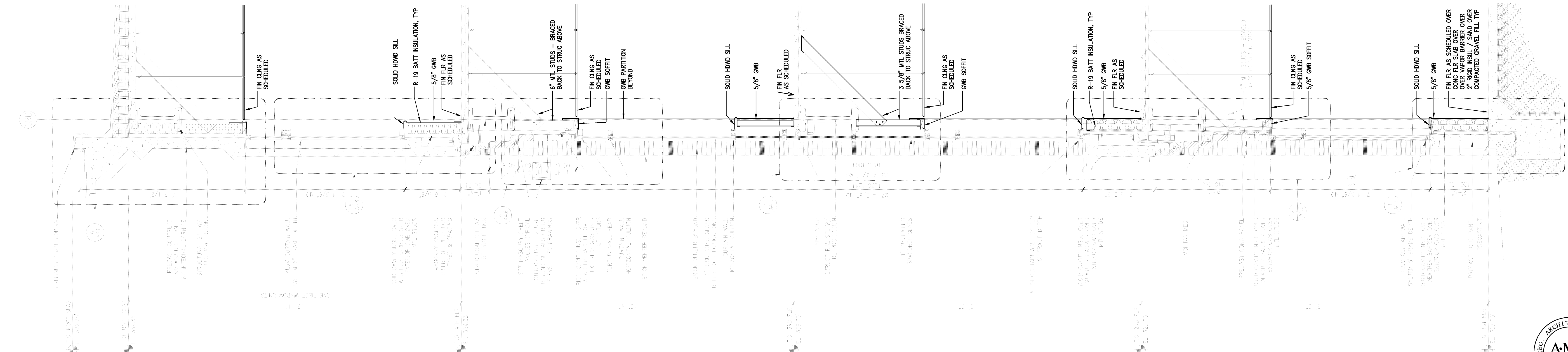




3 WALL SECTION
SCALE 1/2" = 1'-0"



2 WALL SECTION
SCALE 1/2" = 1'-0"



1 WALL SECTION
SCALE 1/2" = 1'-0"

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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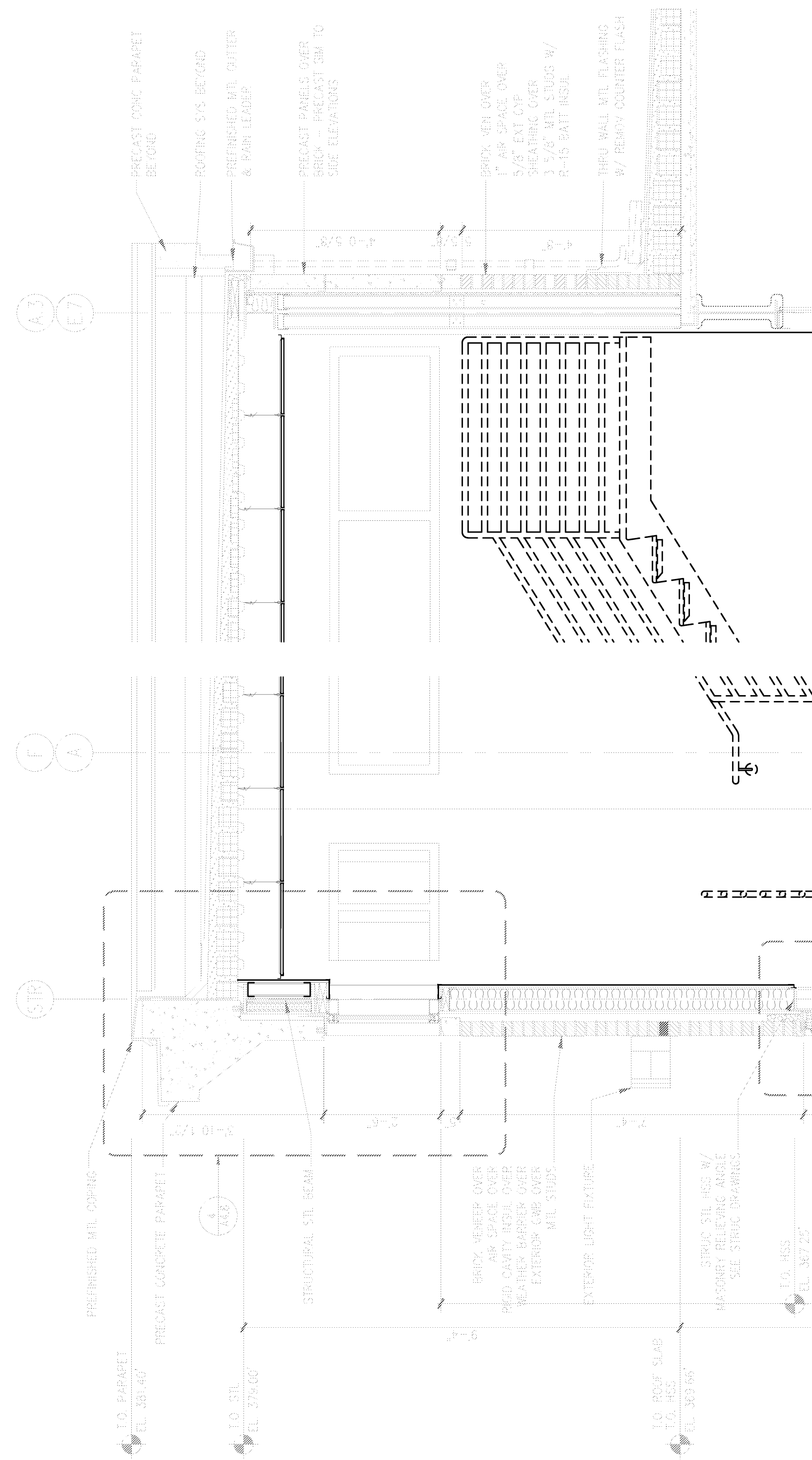
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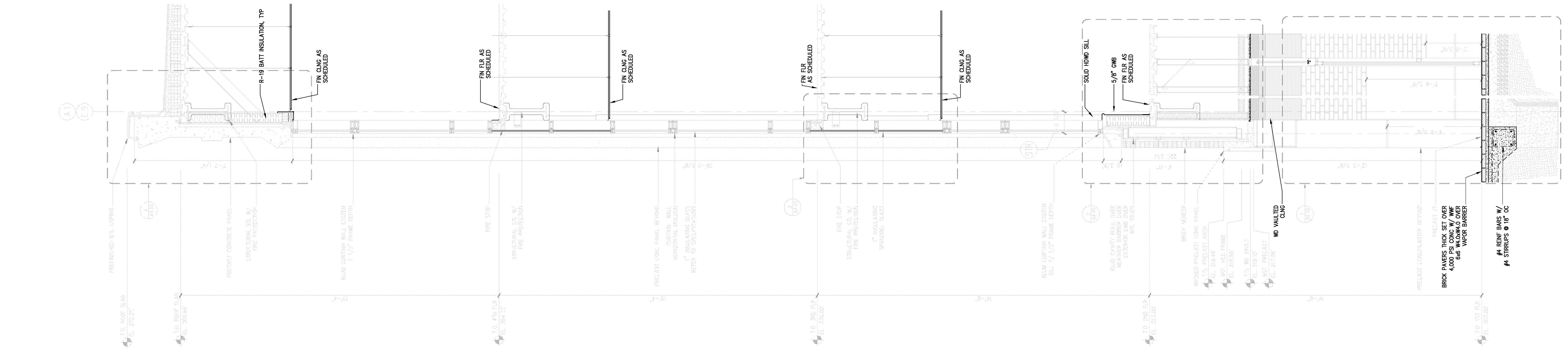


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: WALL SECTIONS
Sheet Number: **A3.3**

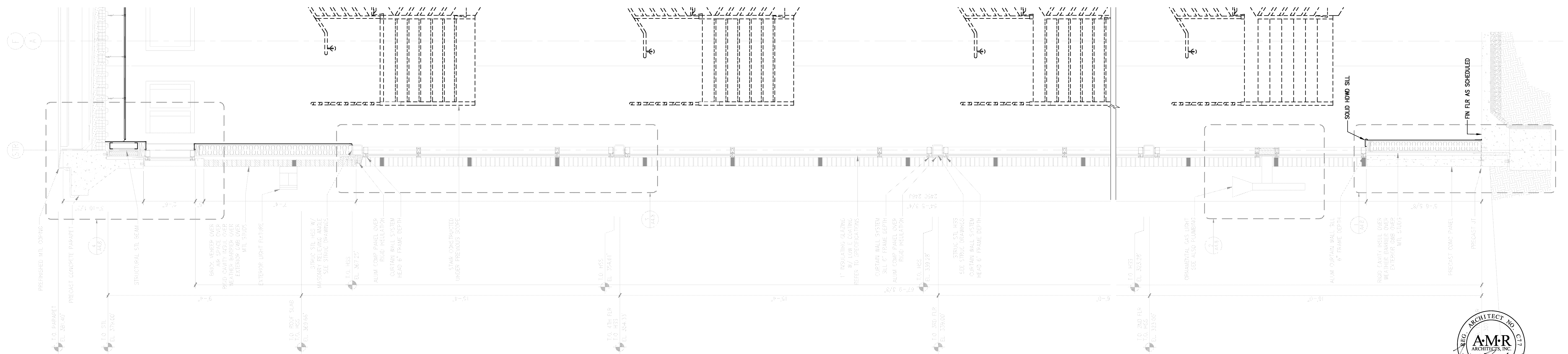
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3 WALL SECTION
SCALE 1/2" = 1'-0"



2 WALL SECTION
SCALE 1/2" = 1'-0"



1 WALL SECTION
SCALE 1/2" = 1'-0"

VERIFY SCALE
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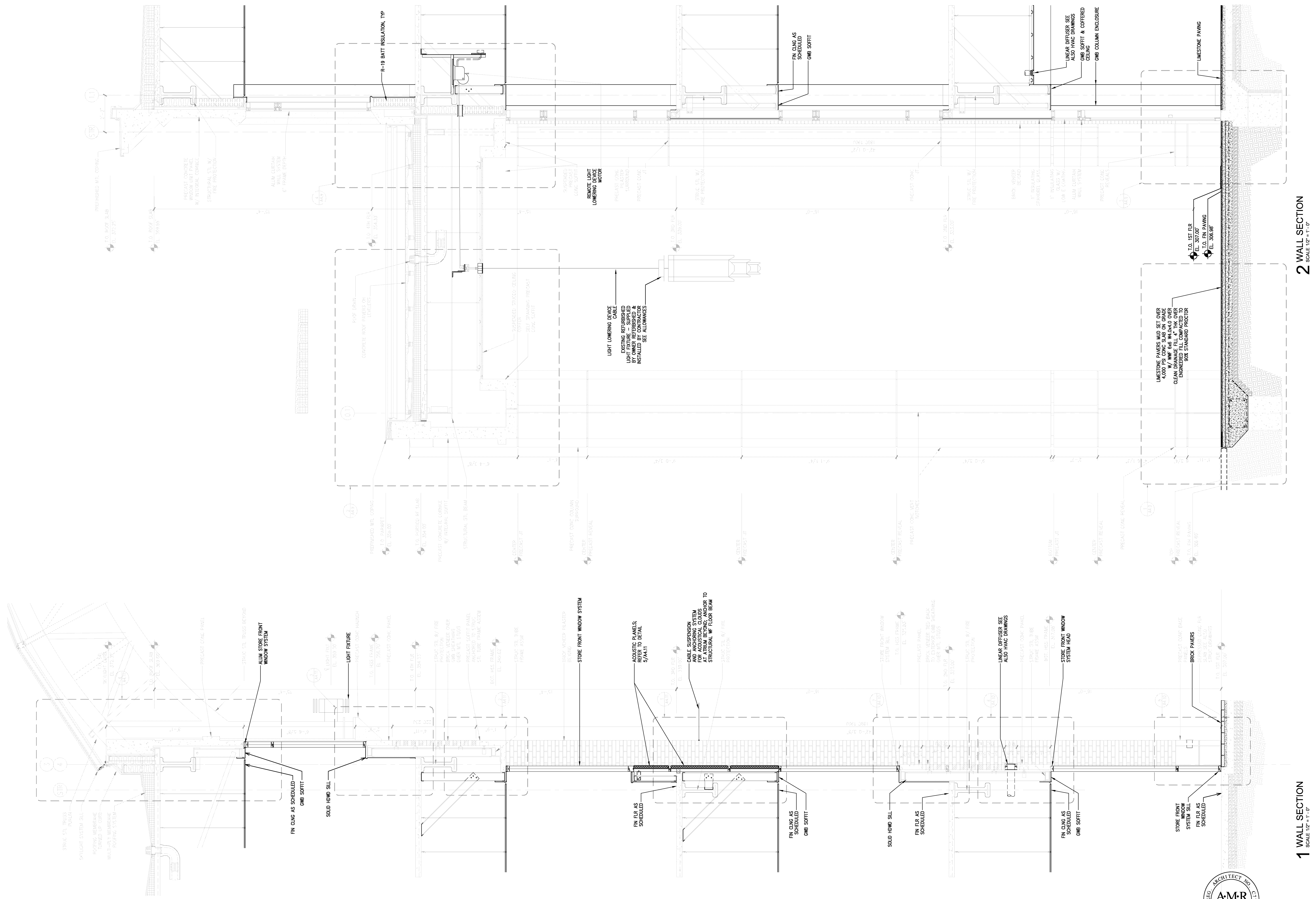
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Location: Jonesboro, AR
Date: October 03, 2013
Title: WALL SECTIONS
Sheet Number: **A3.4**





2 WALL SECTION
SCALE: 1/2" = 1'-0"

1 WALL SECTION
SCALE: 1/2" = 1'-0"

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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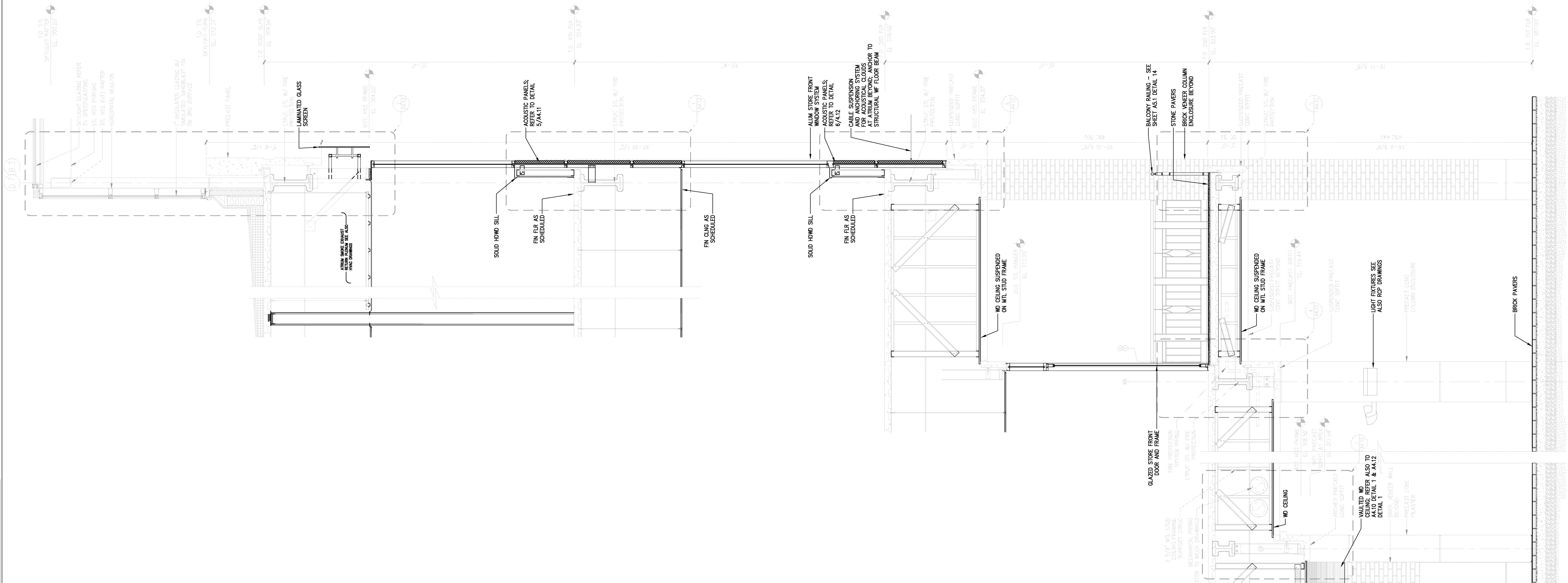
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Location: Jonesboro, AR
Date: October 03, 2013
Title: WALL SECTIONS
Sheet Number: **A3.5**





1 WALL SECTION
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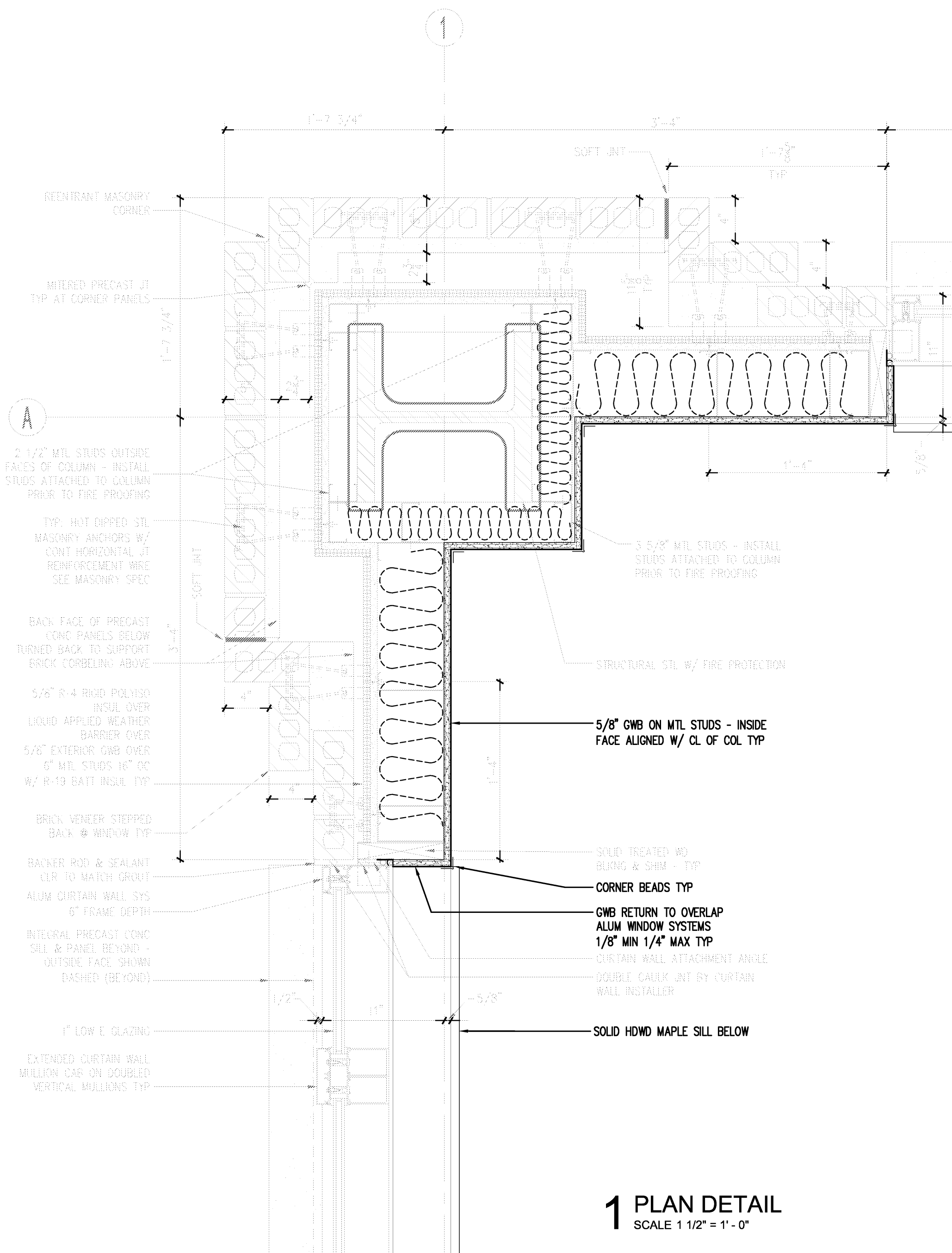
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Jonesboro, AR 72401
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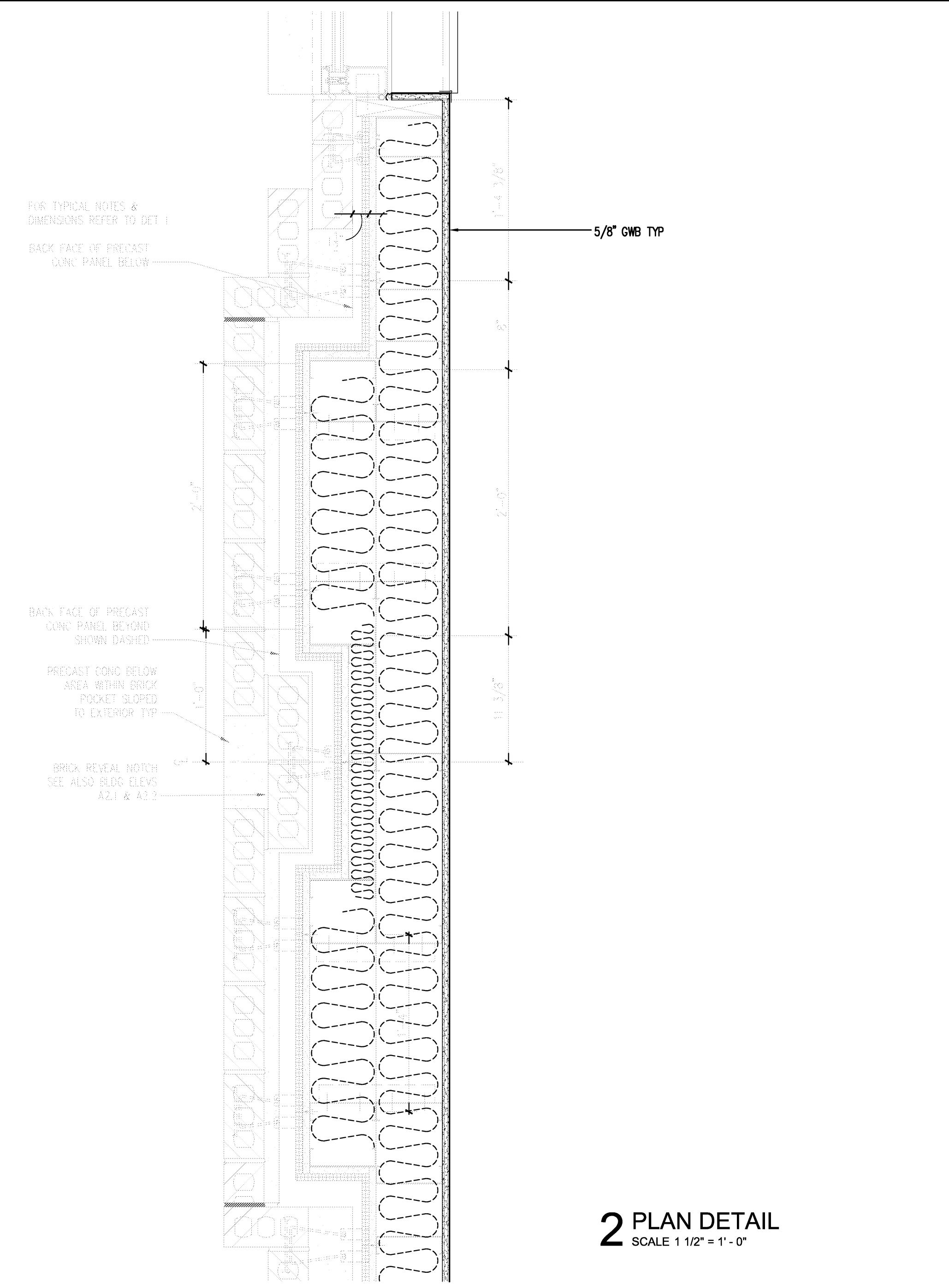


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: WALL SECTIONS
Sheet Number: **A3.6**

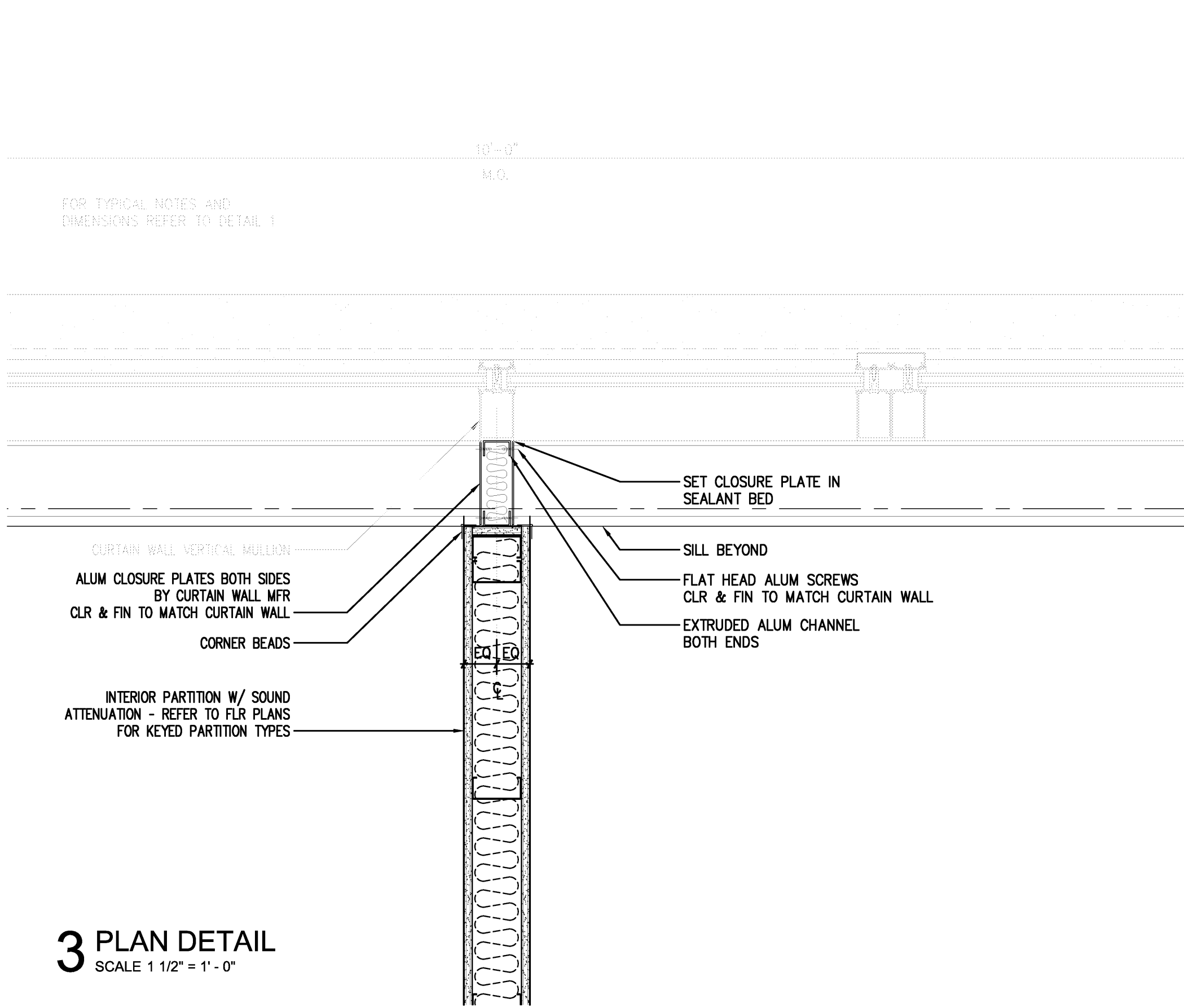
VERIFY @ SCALE
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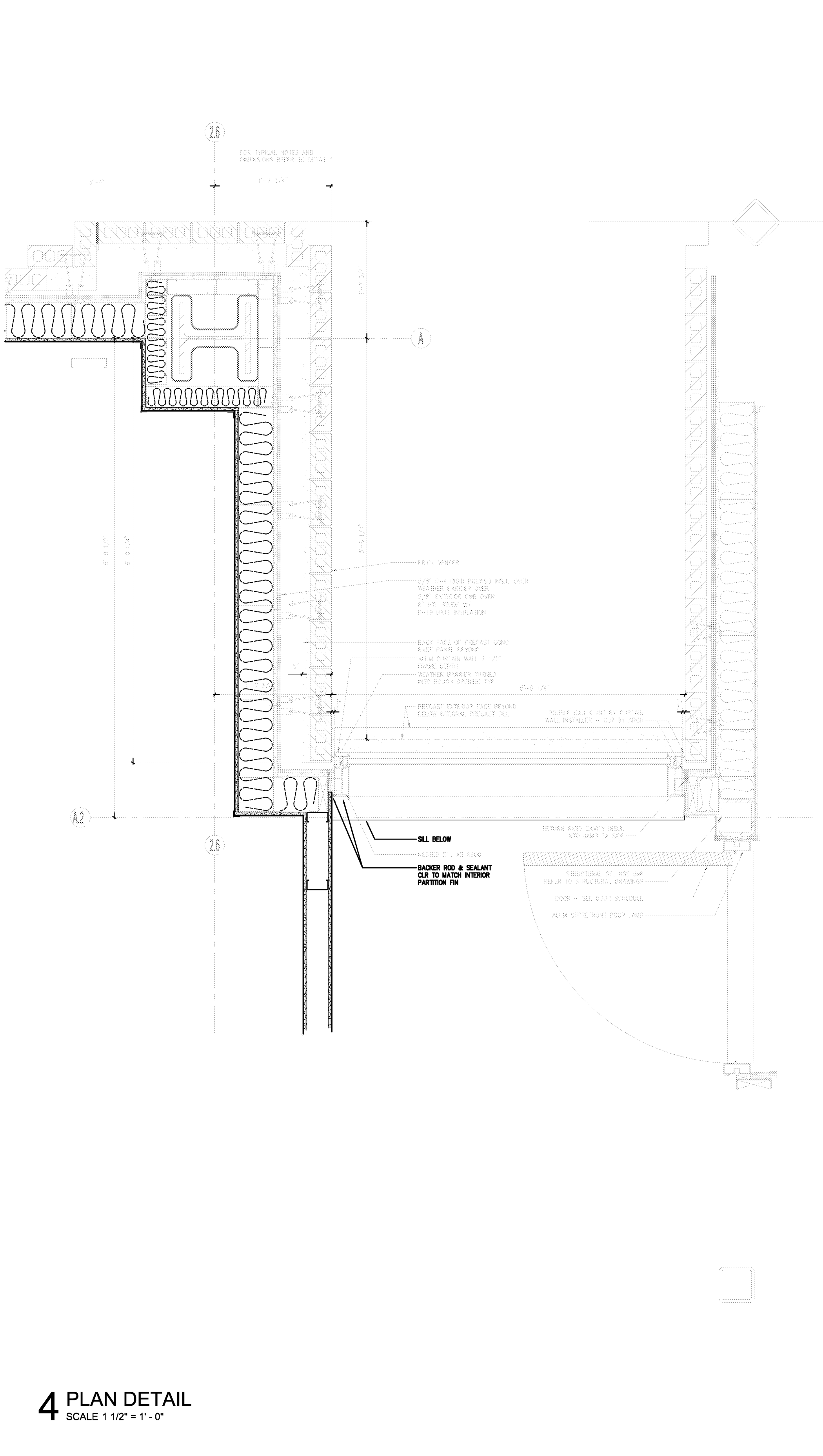
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SCALE 1 1/2" = 1'-0"



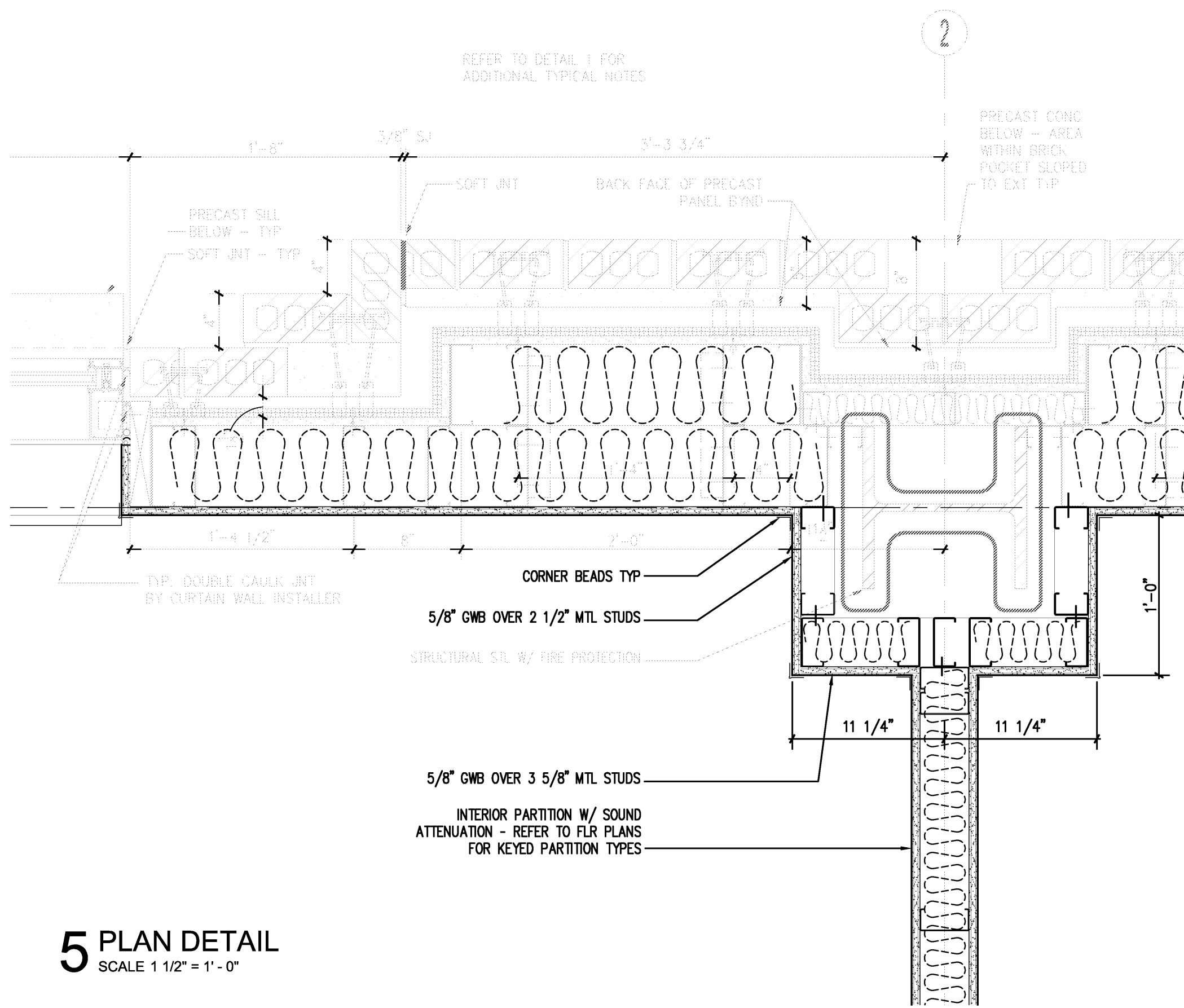
2 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



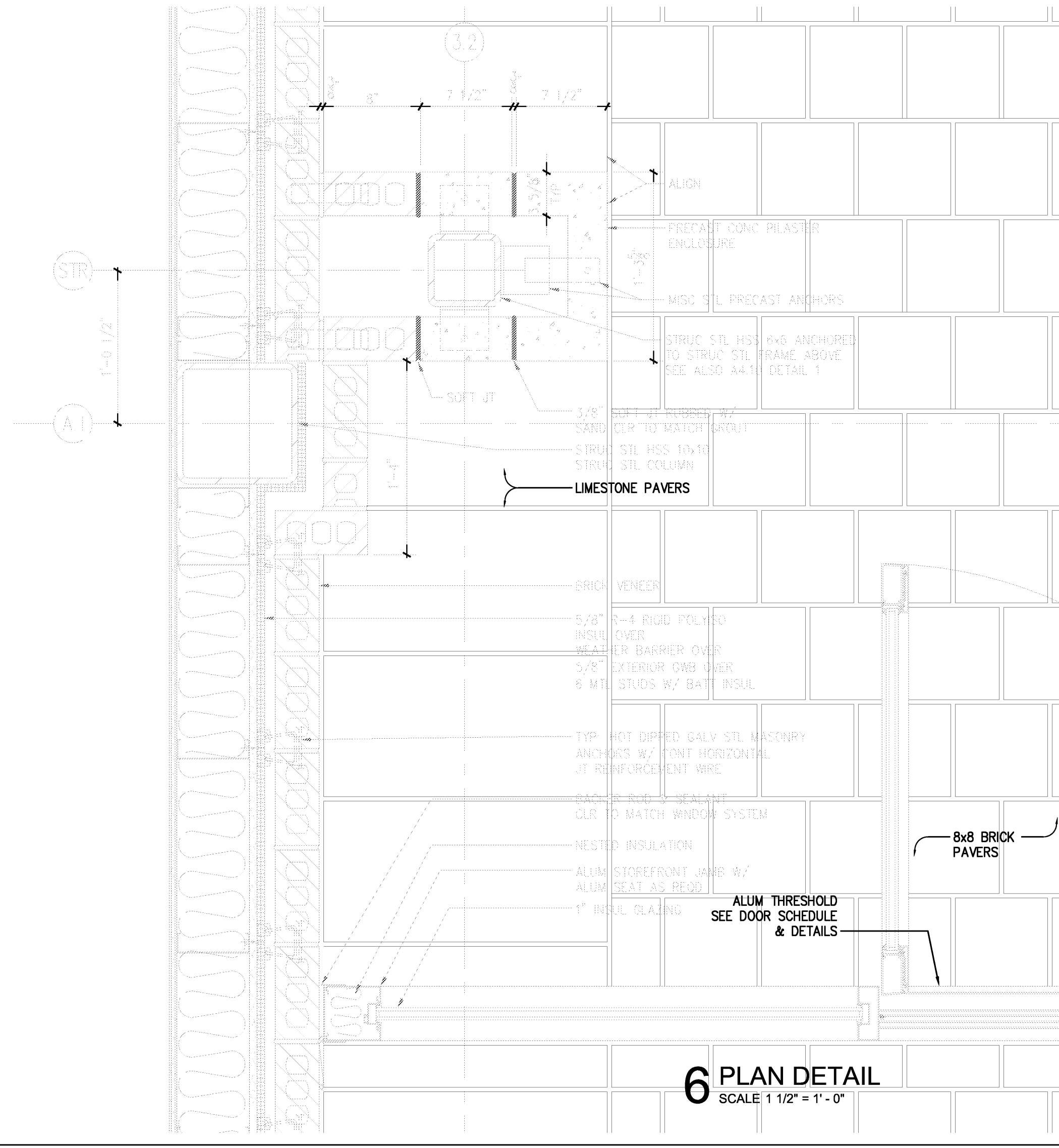
3 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



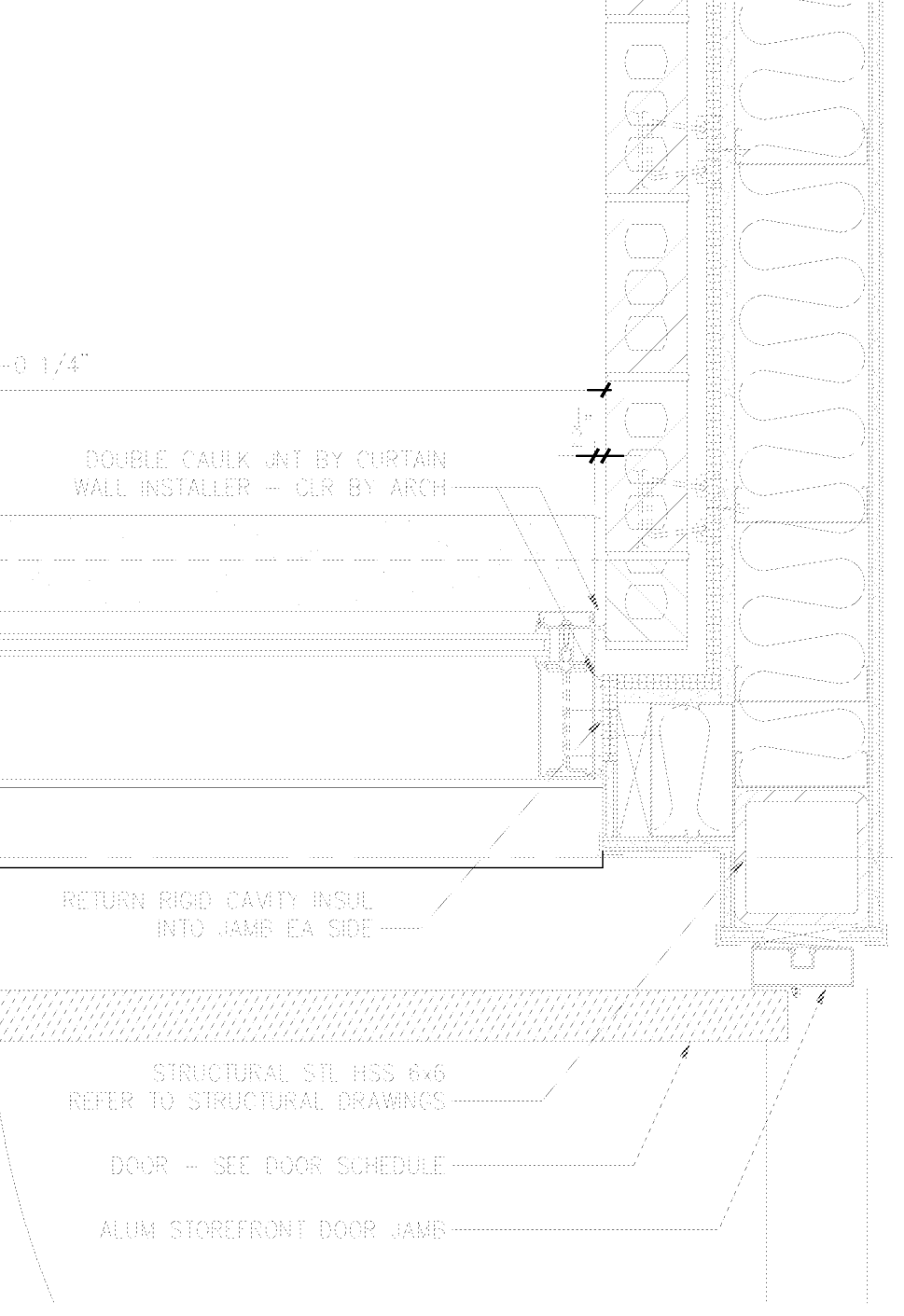
4 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



5 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



6 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



VERIFY SCALE
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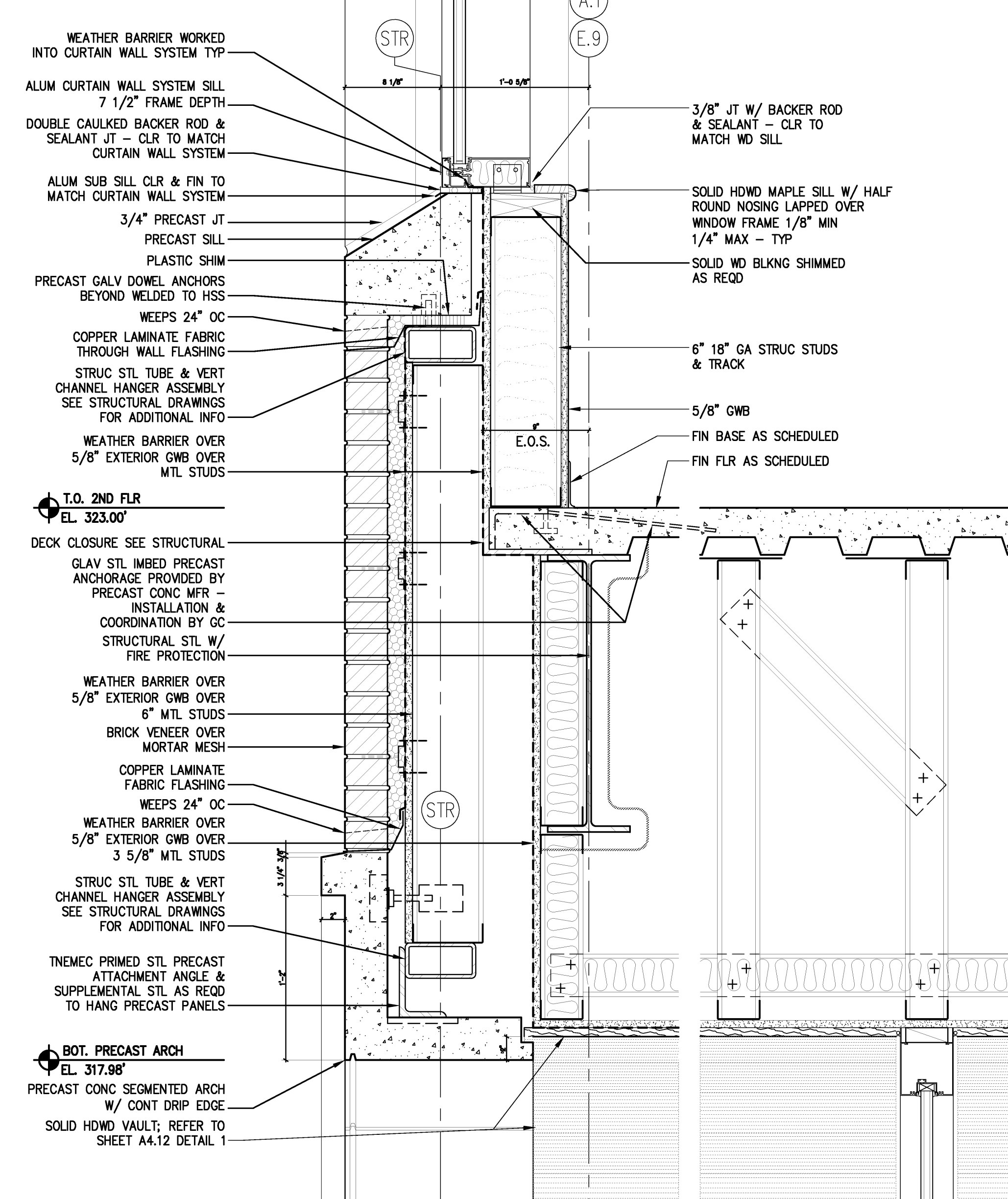
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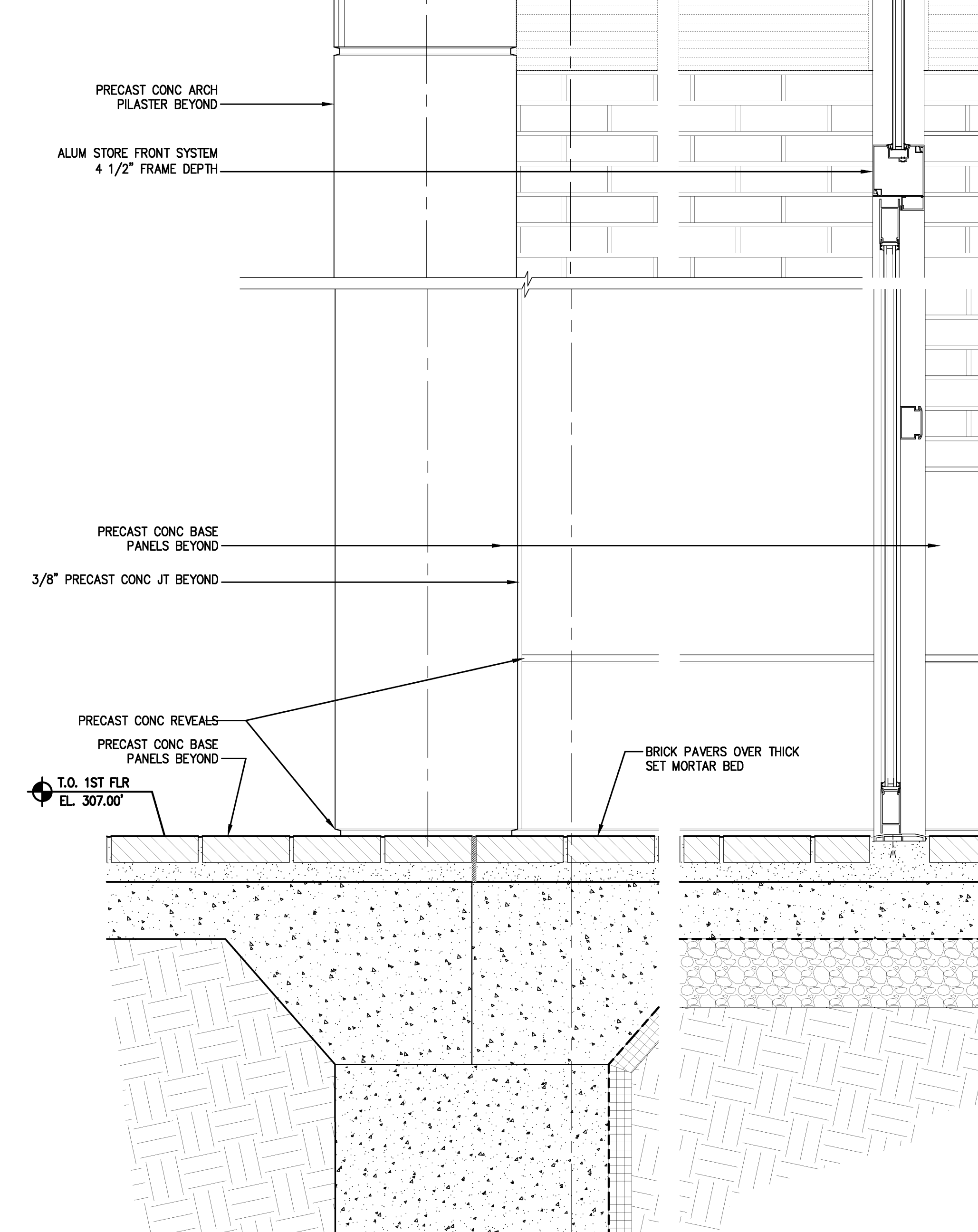


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: PLAN DETAILS
Sheet Number: **A4.1**

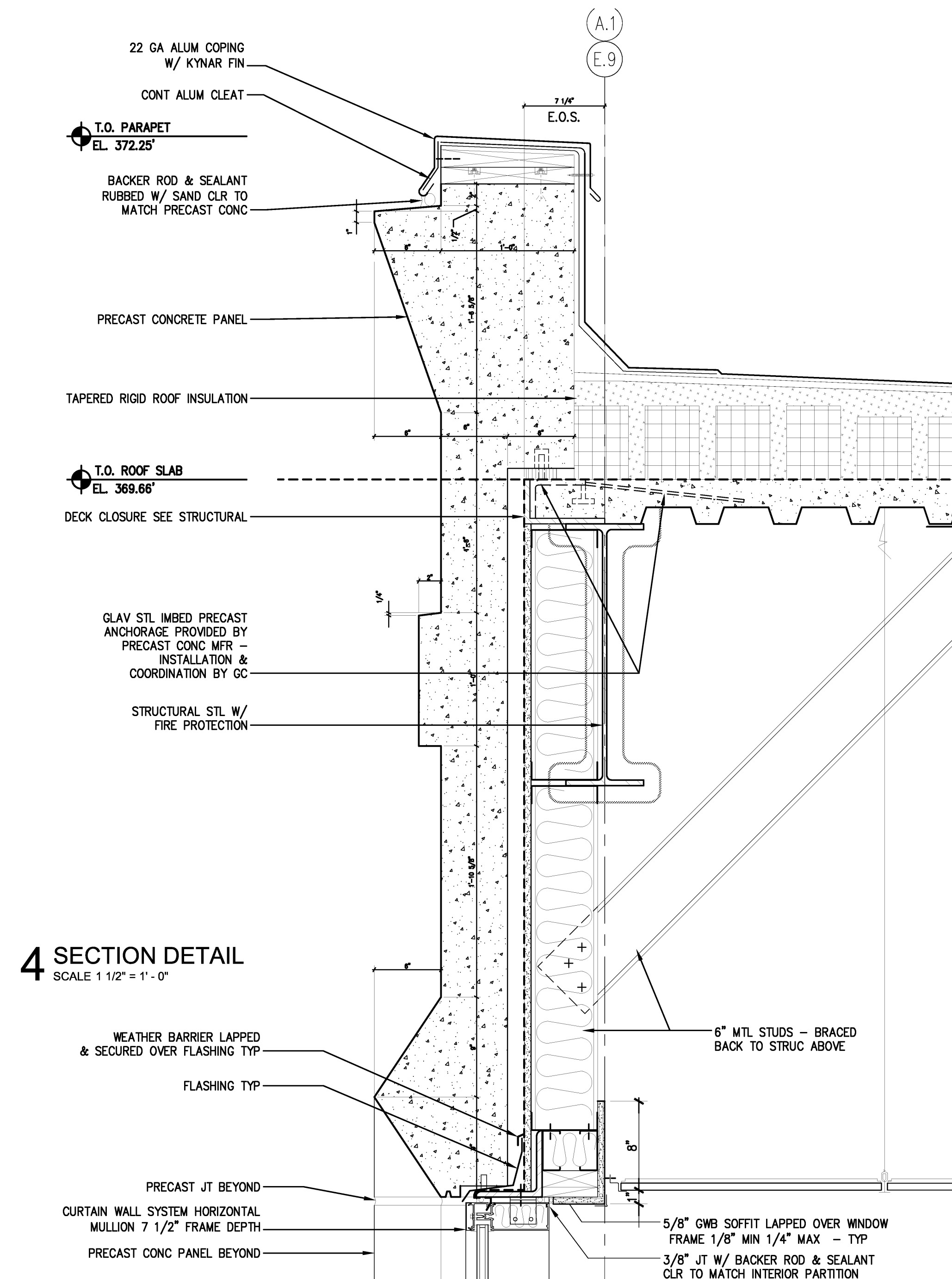
2 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



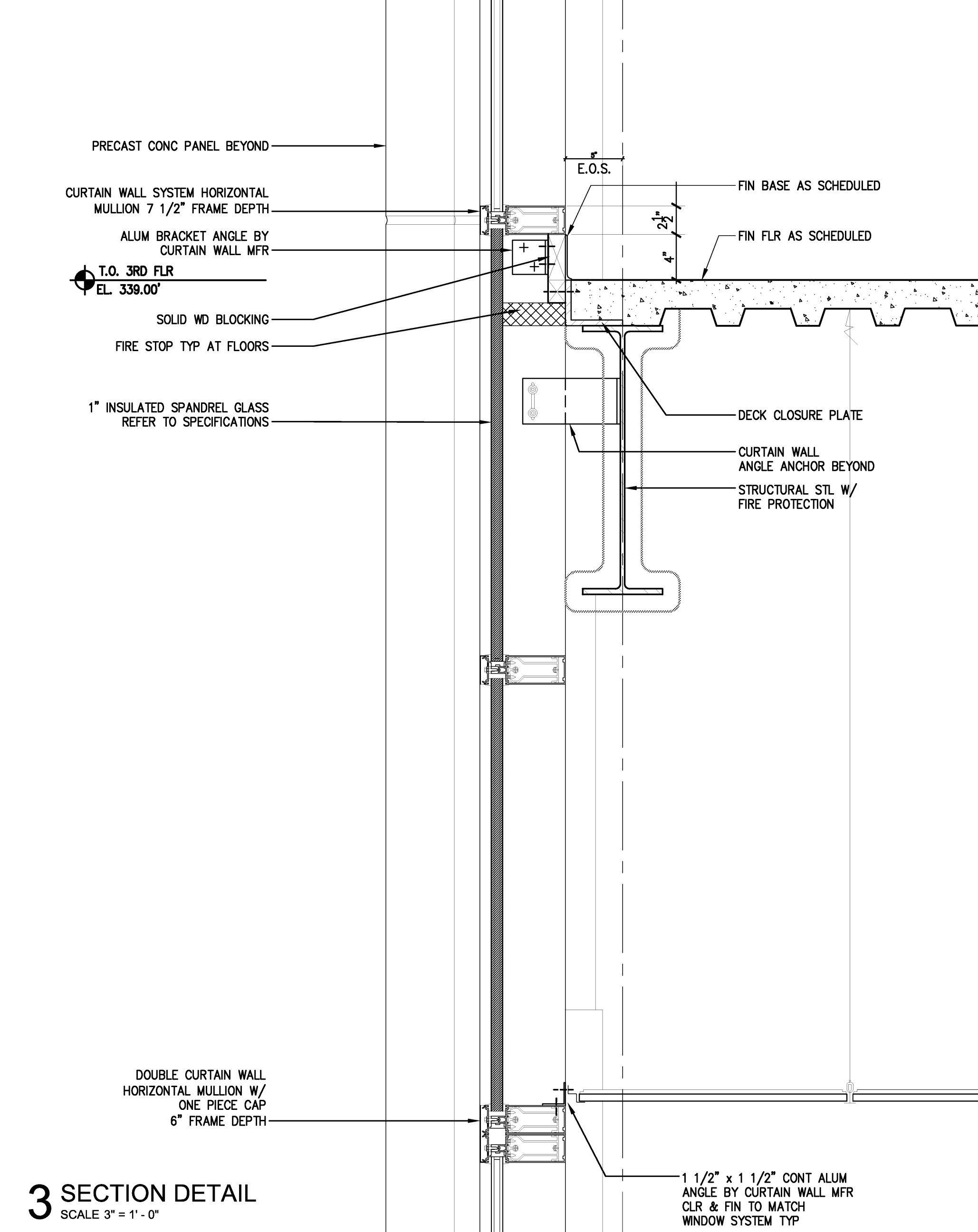
1 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



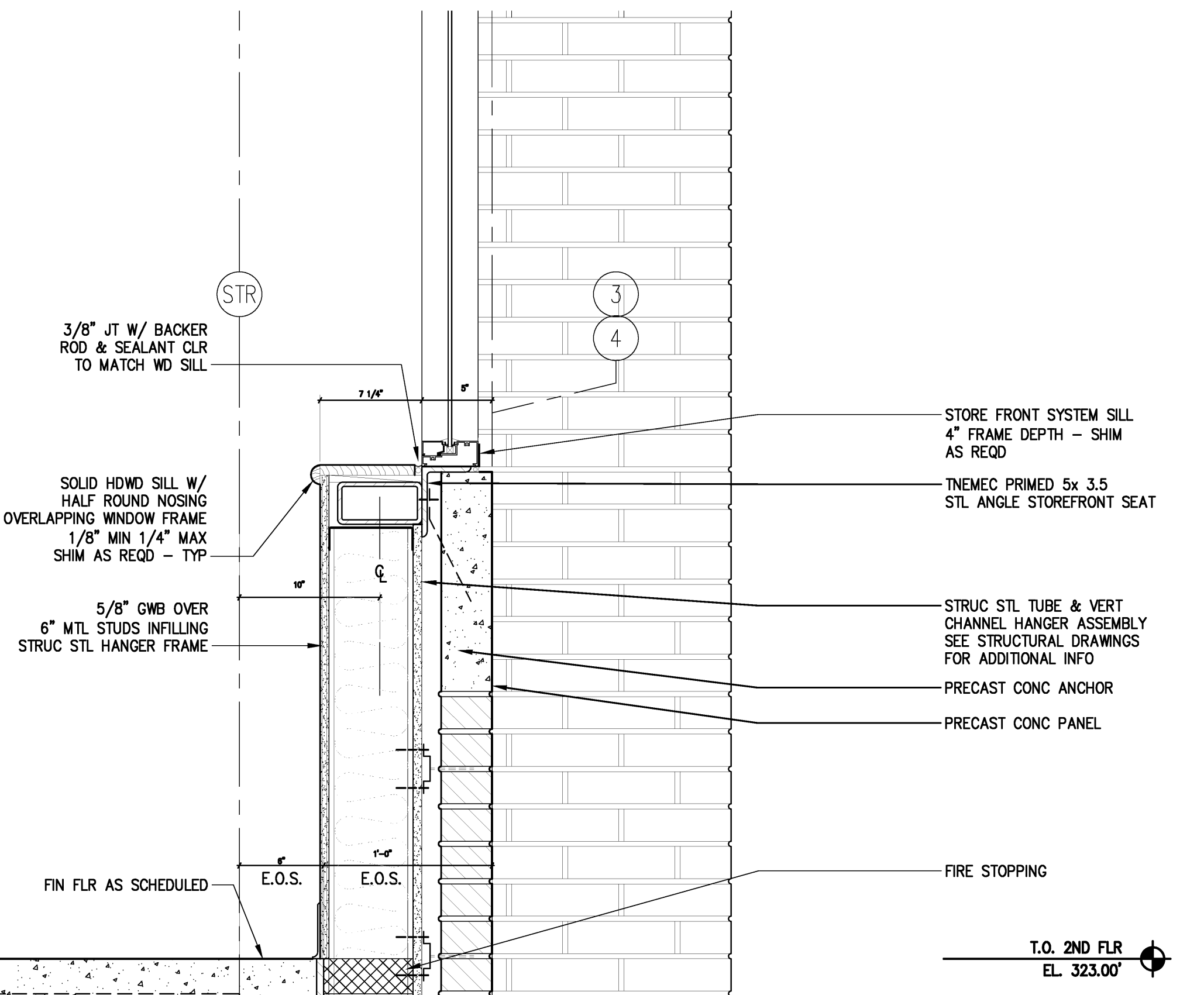
4 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



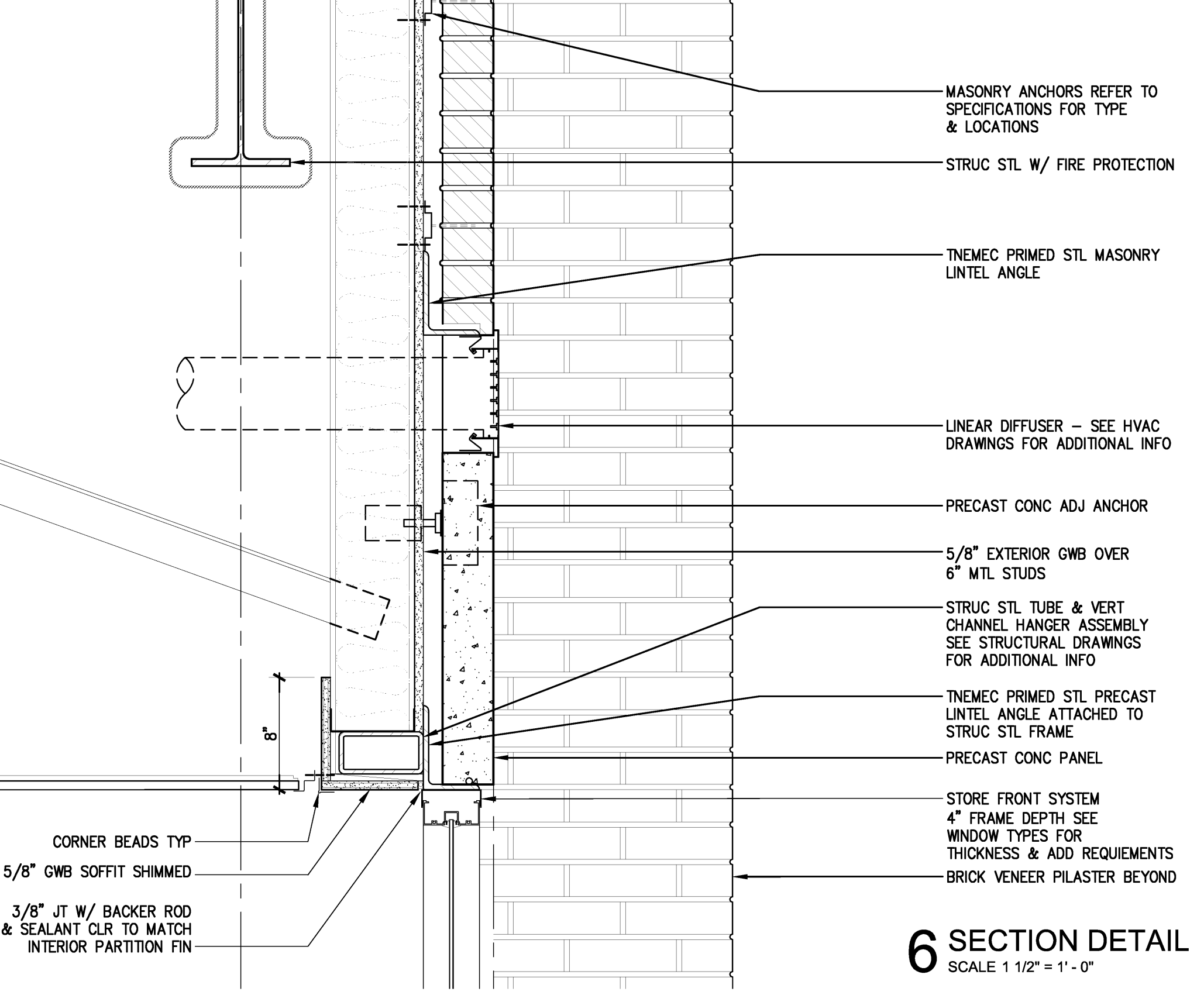
3 SECTION DETAIL
SCALE 3" = 1'-0"



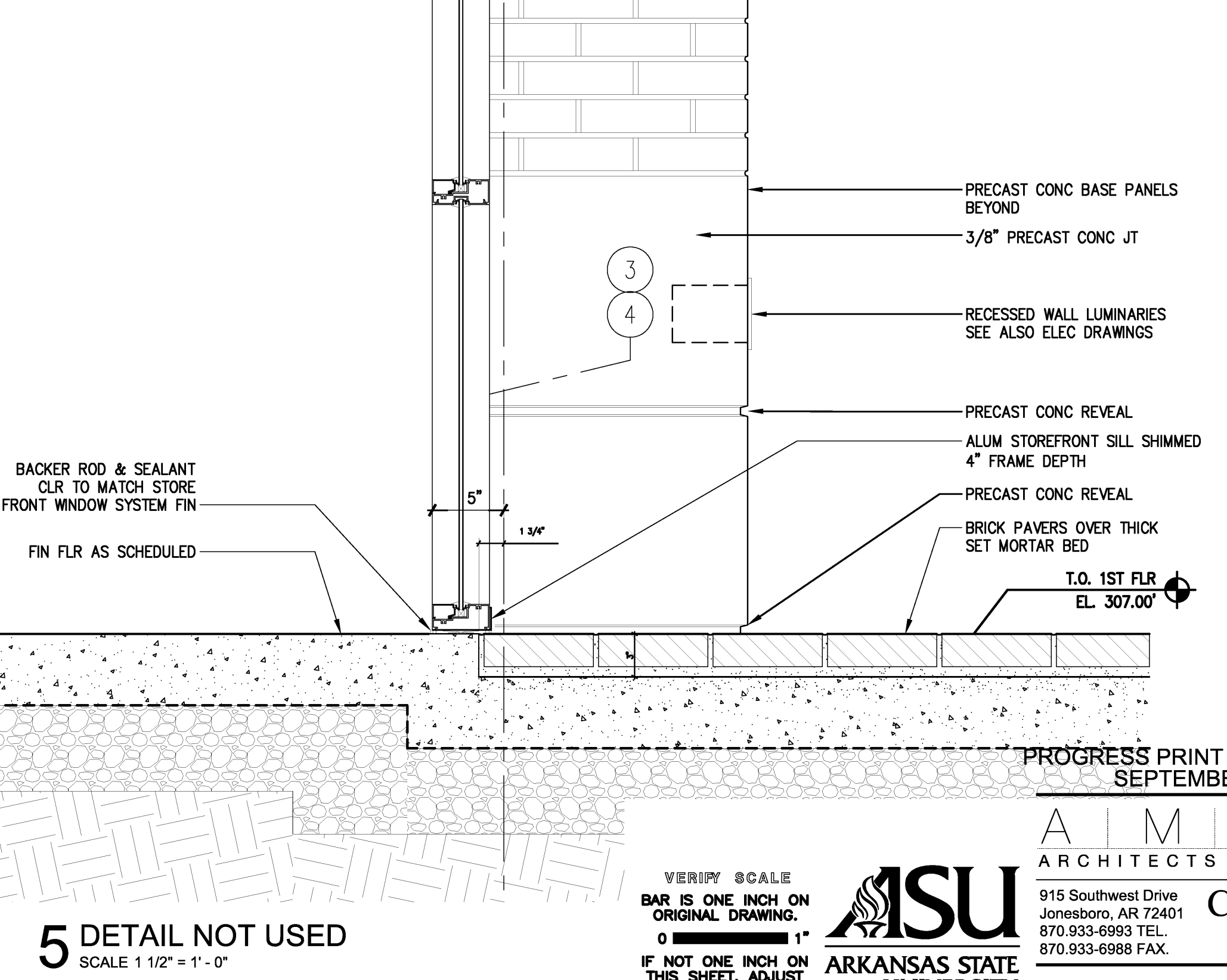
7 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



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



5 DETAIL NOT USED
SCALE 1 1/2" = 1'-0"



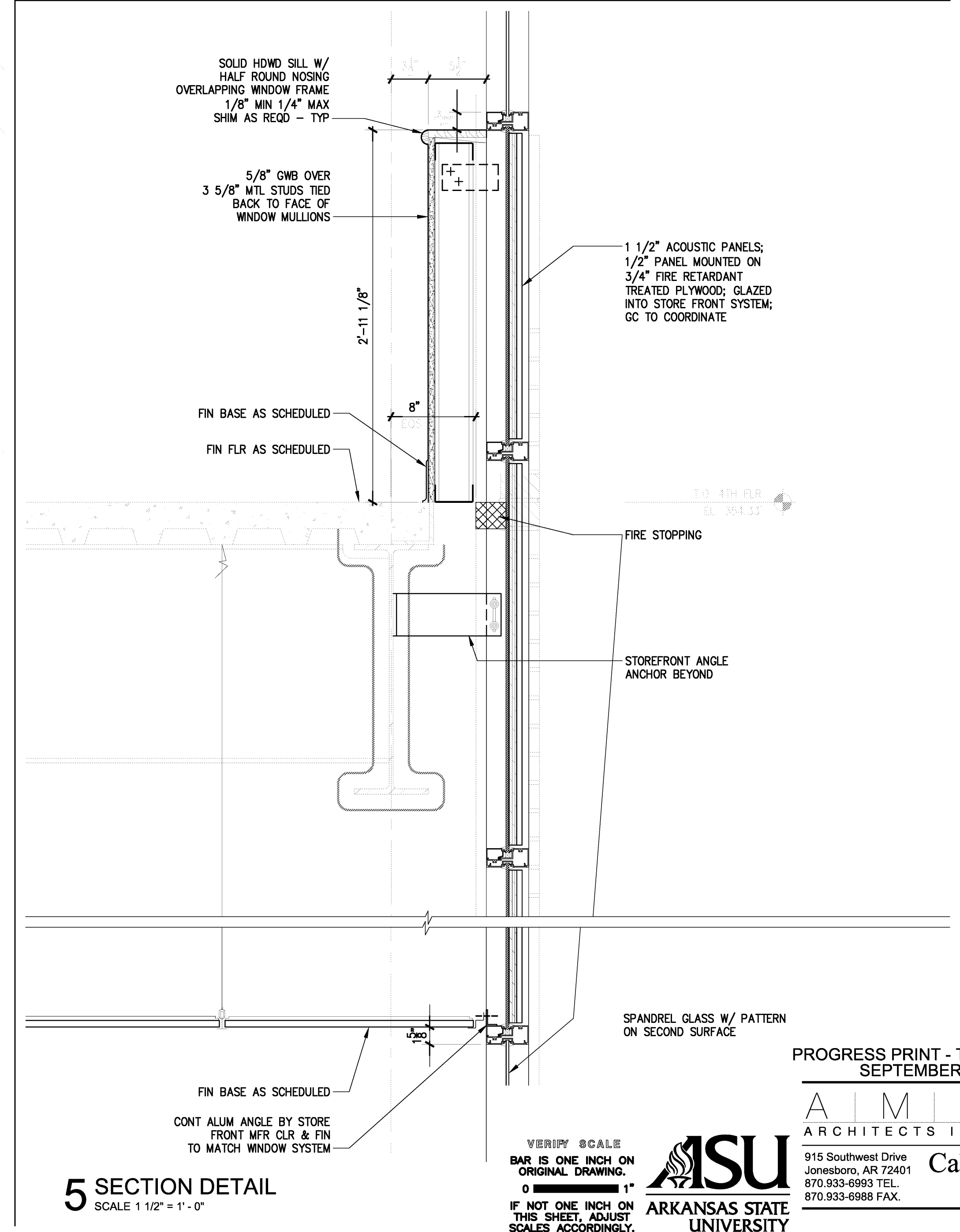
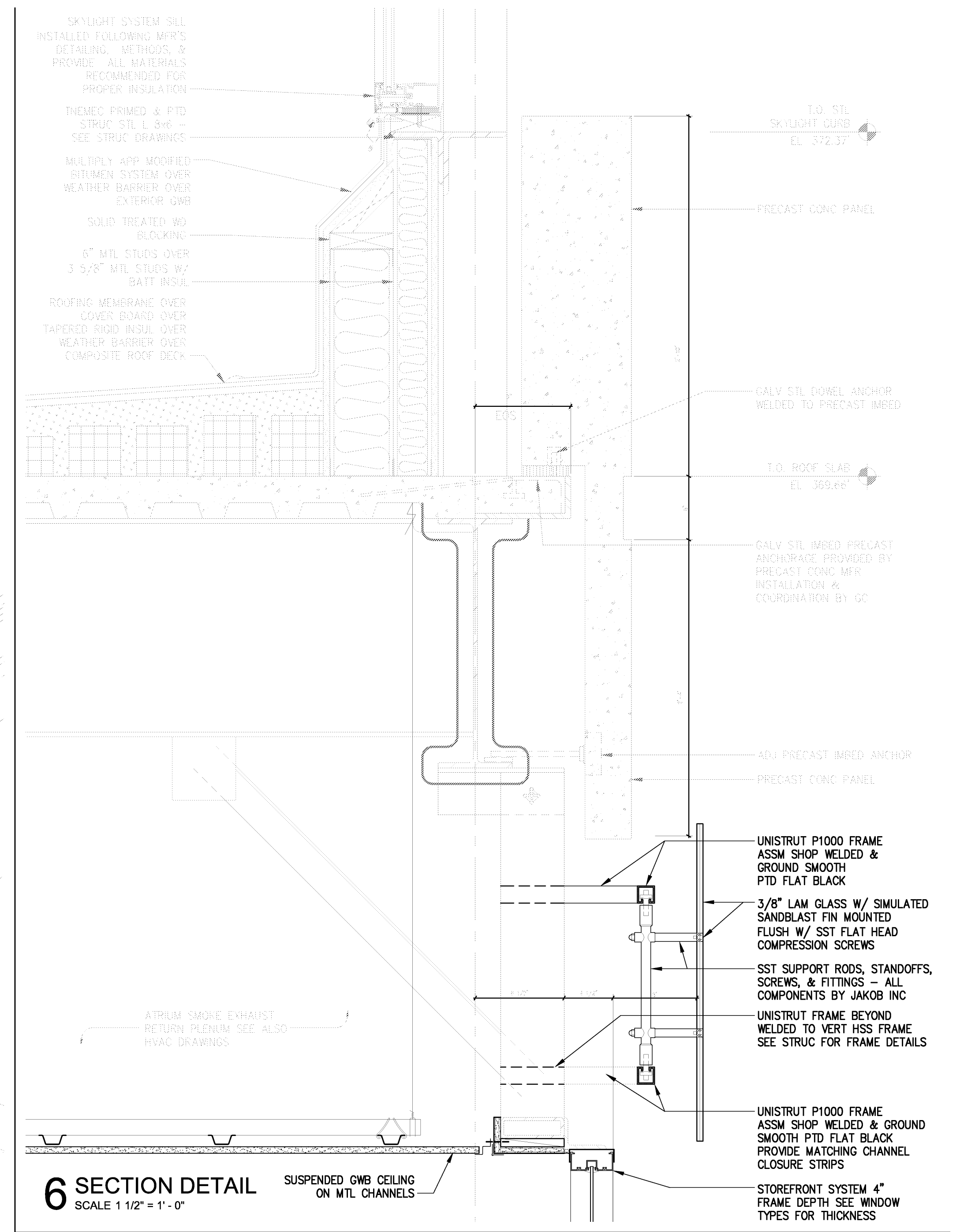
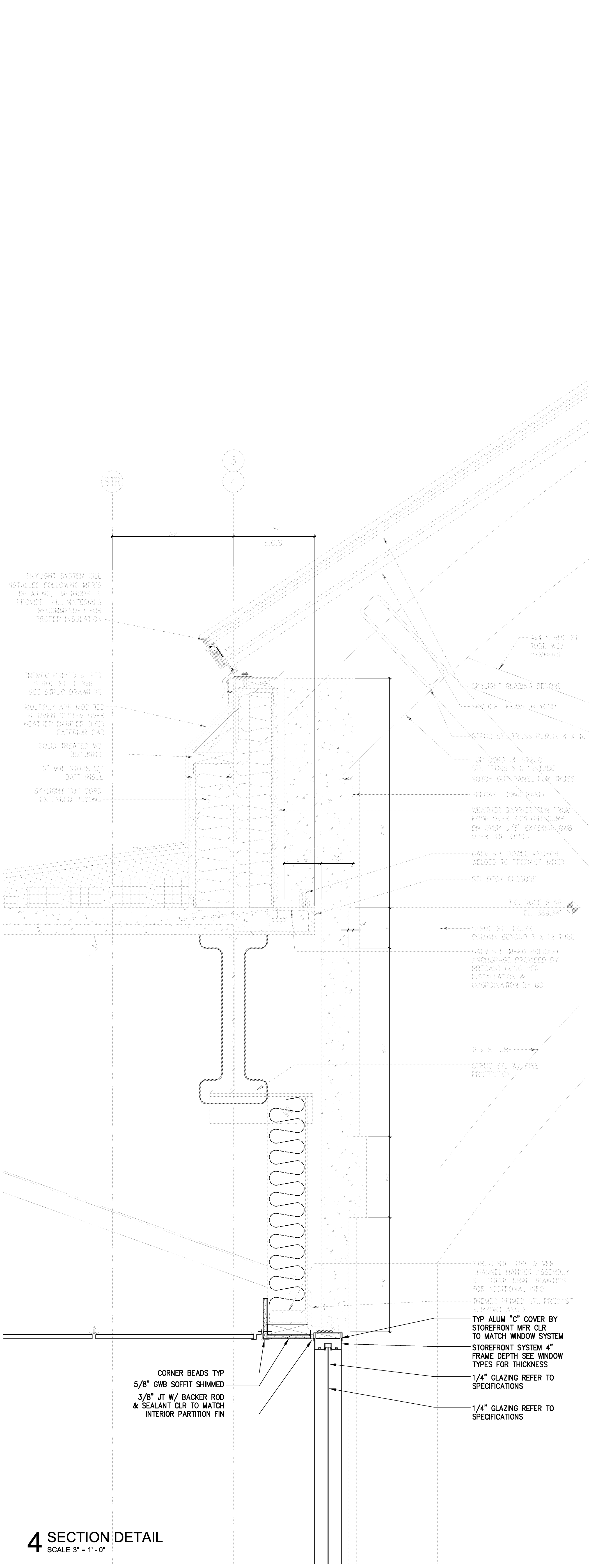
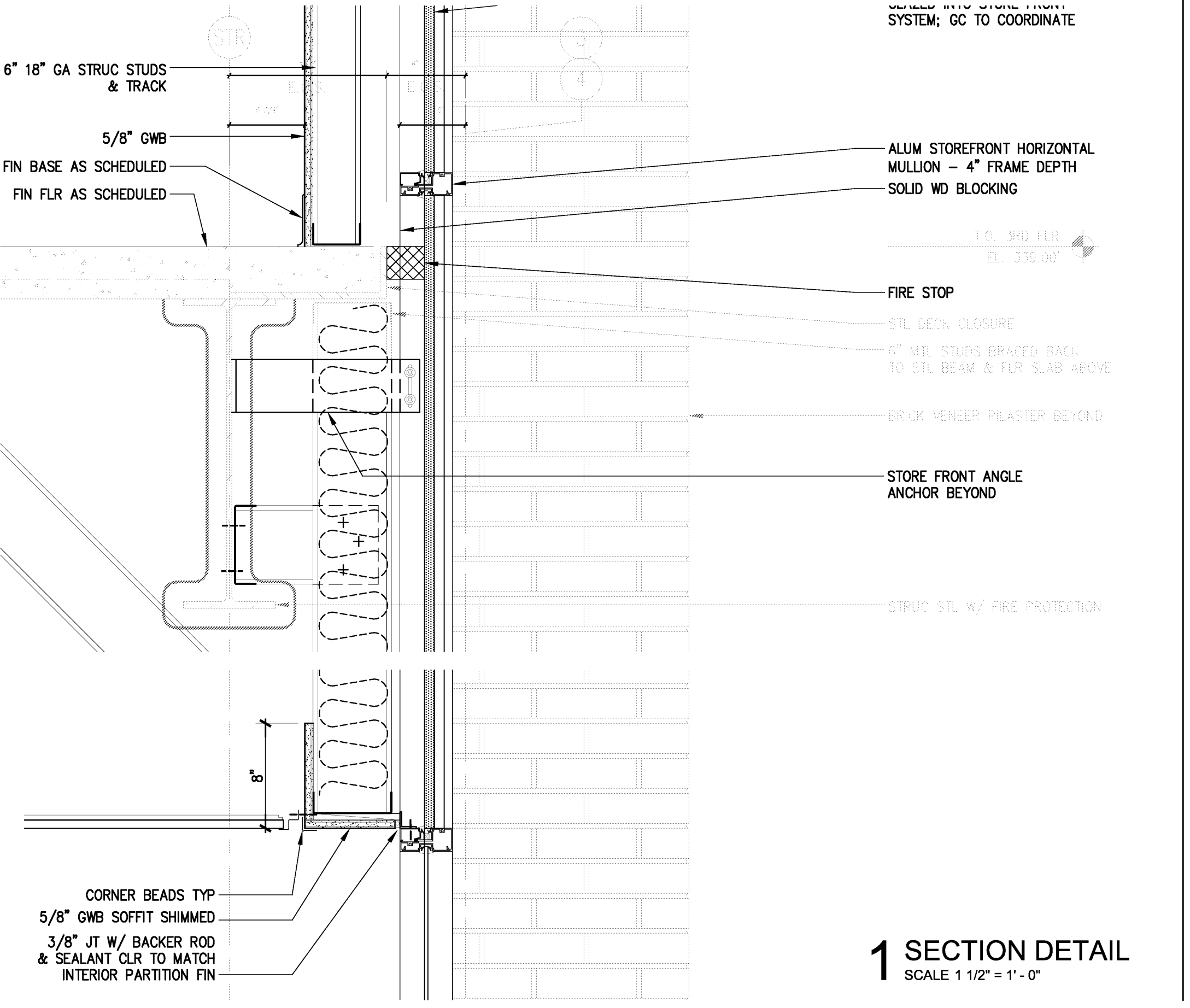
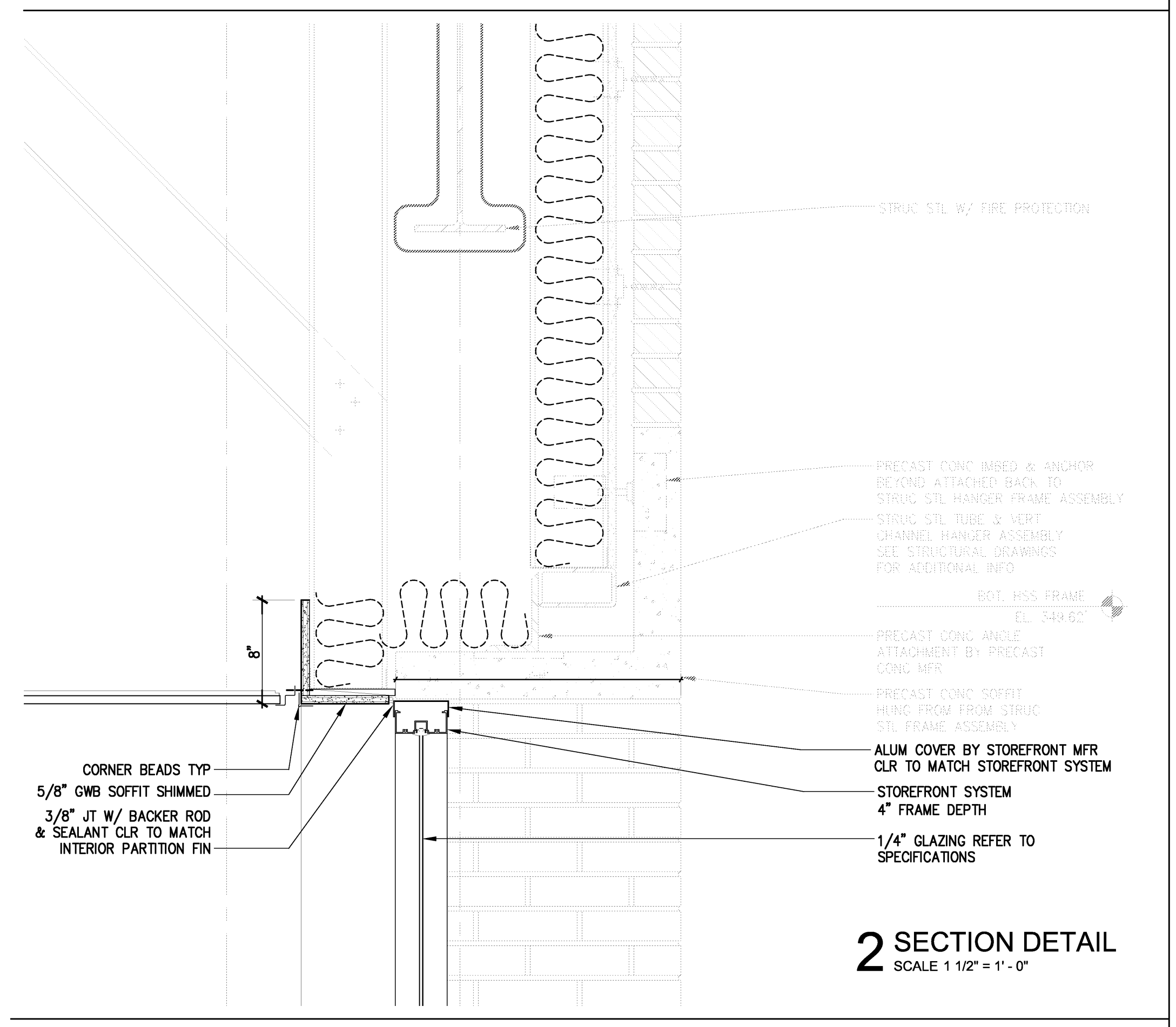
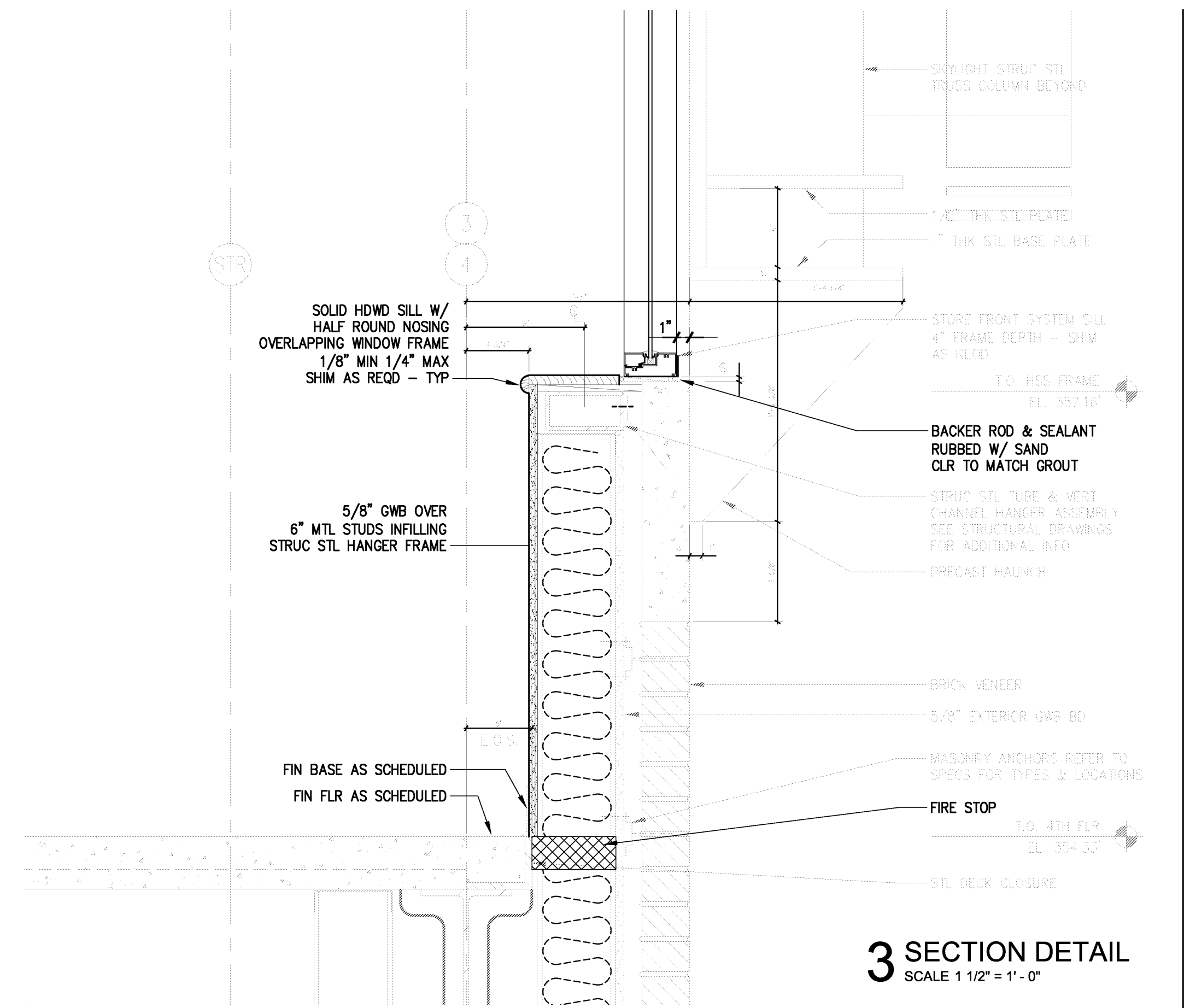
VERIFY SCALE
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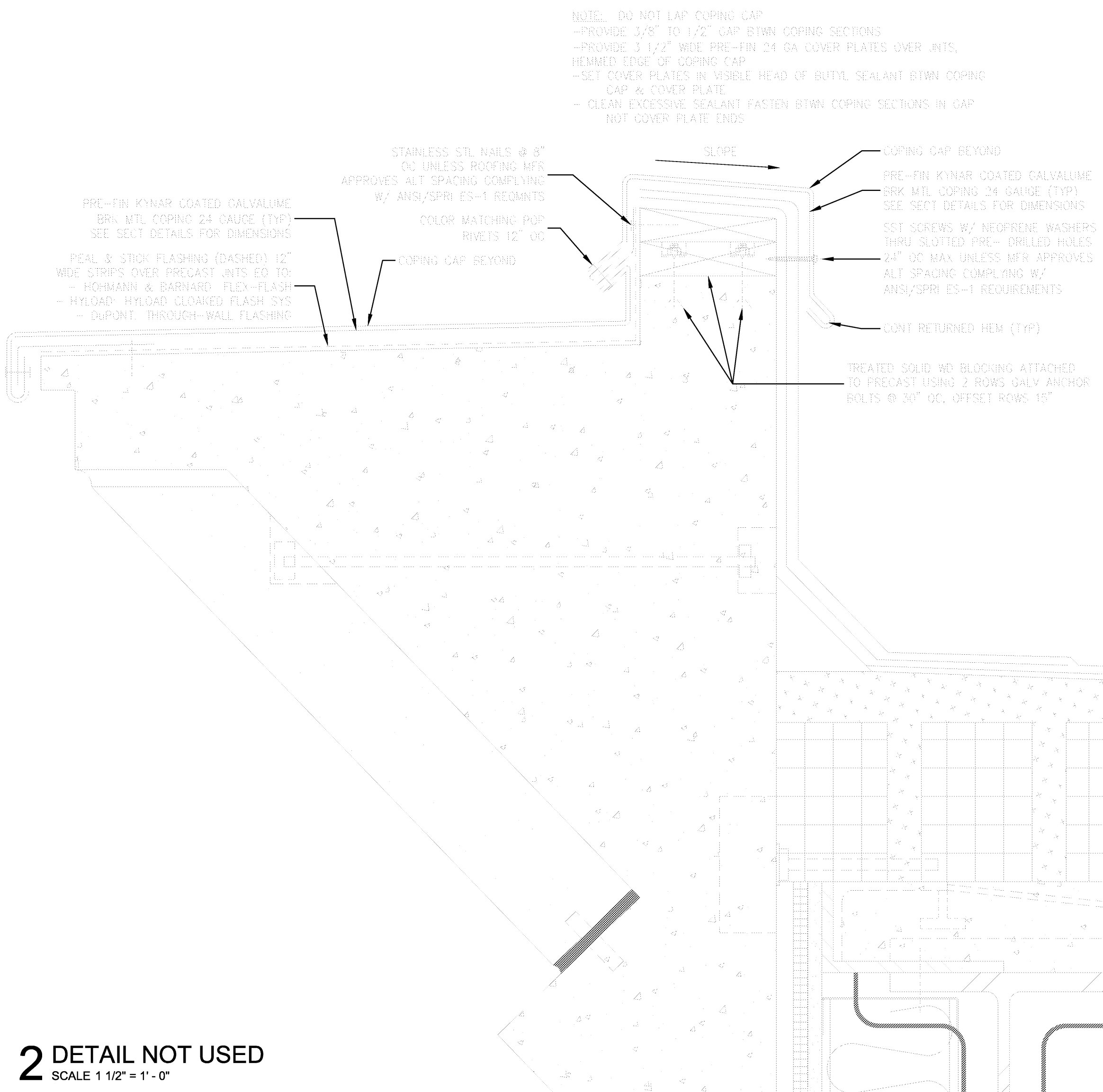
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ARKANSAS STATE
UNIVERSITY

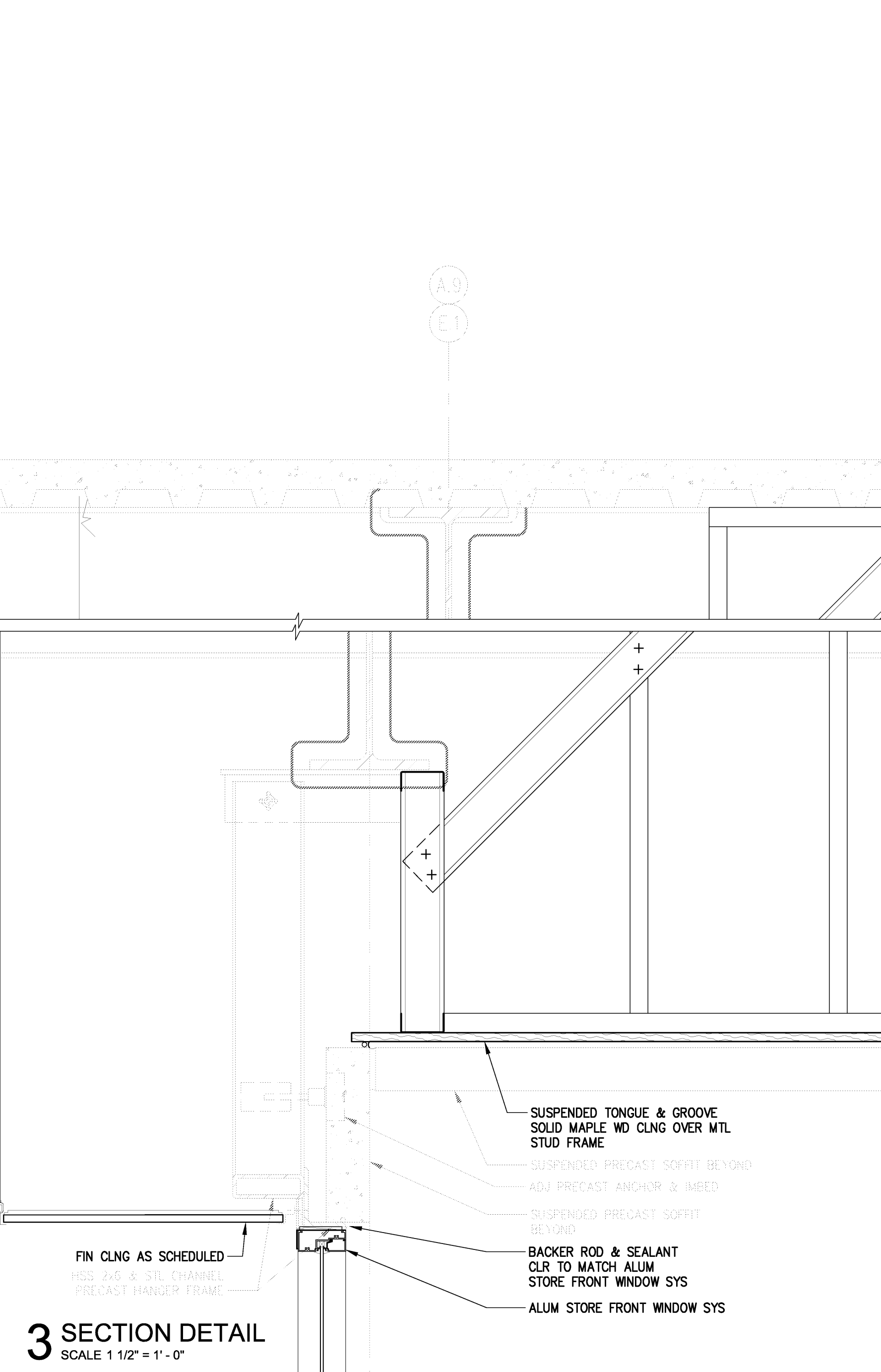
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Title: SECTION DETAILS
Sheet Number: **A4.10**

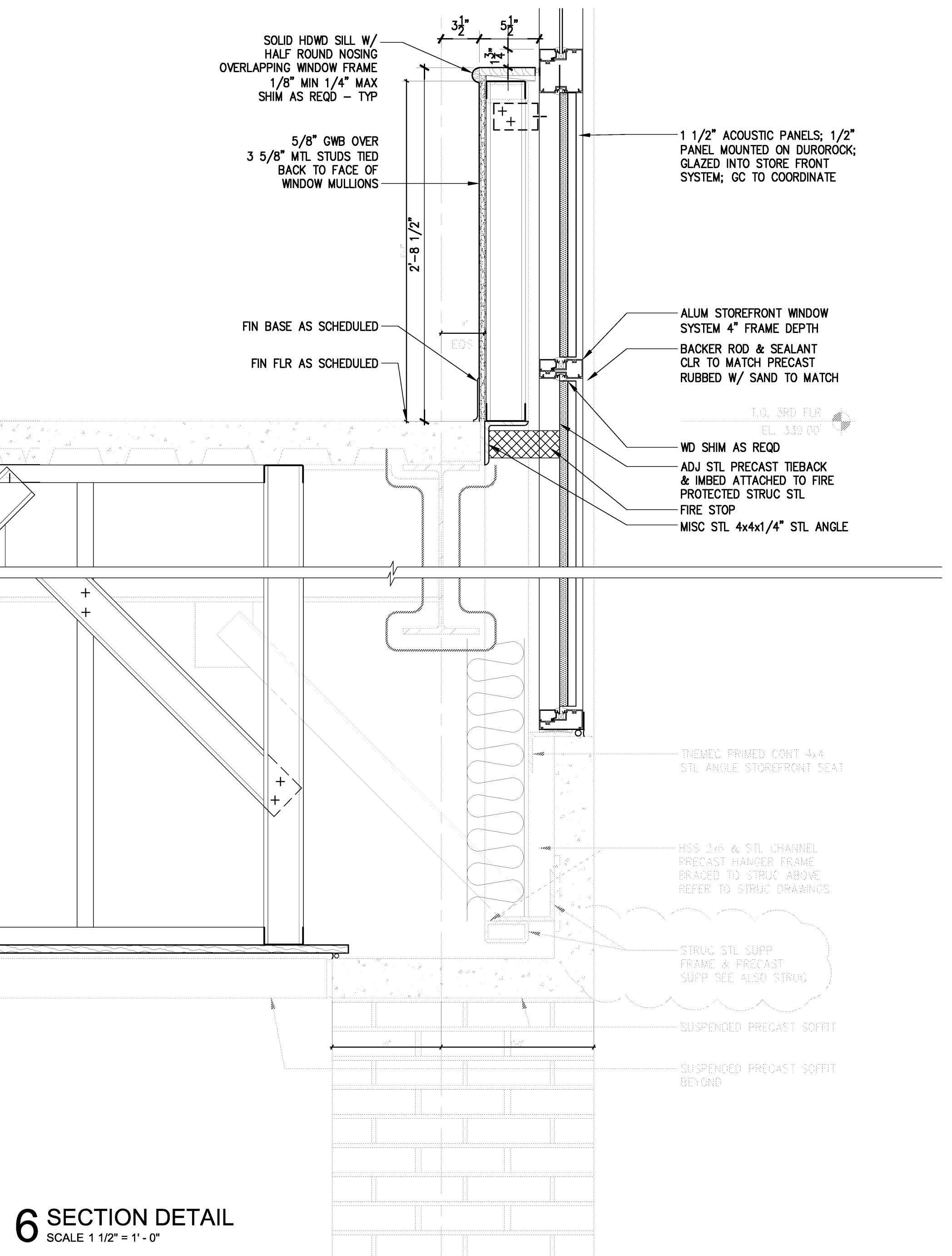




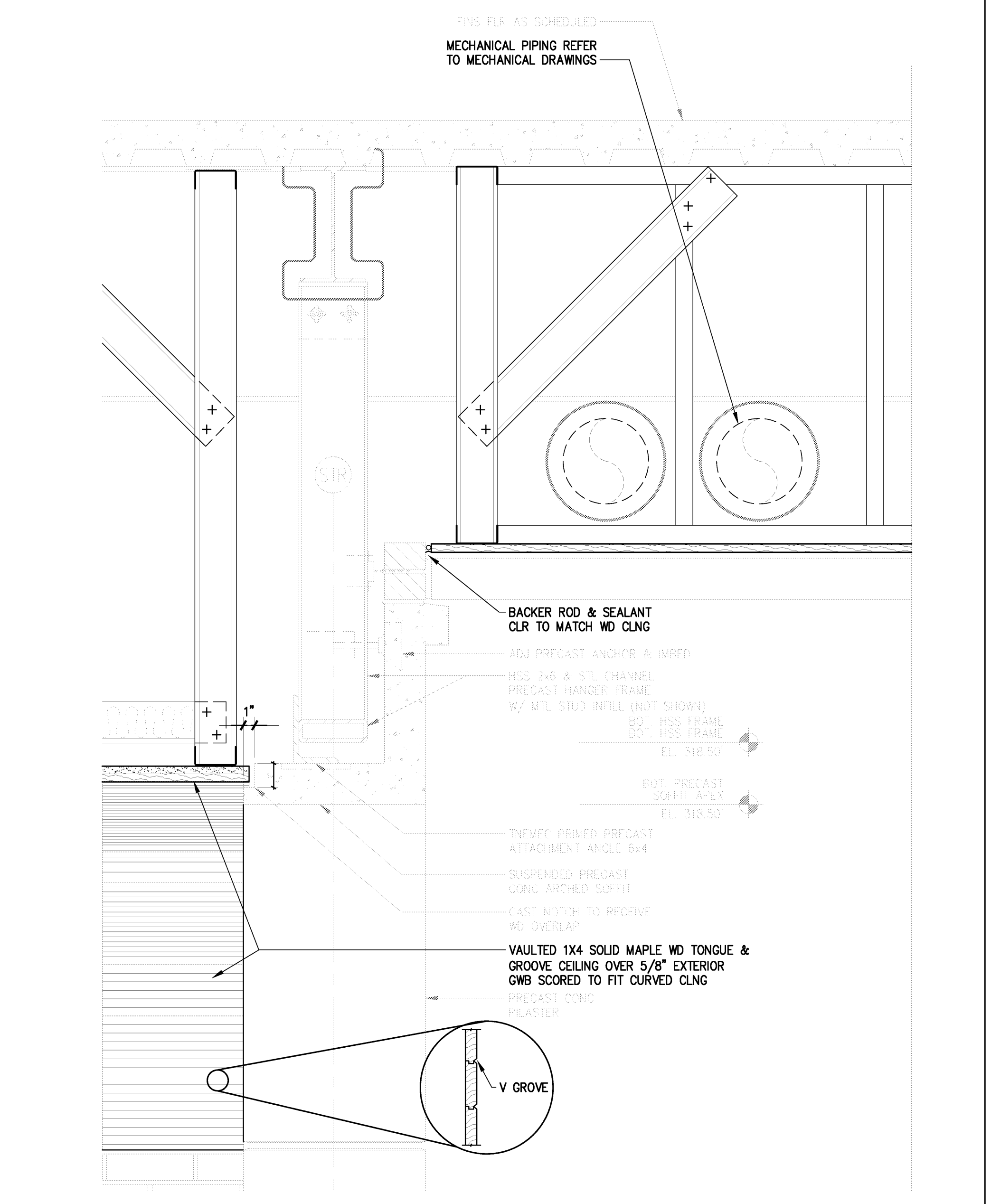
2 DETAIL NOT USED
SCALE 1 1/2" = 1'-0"



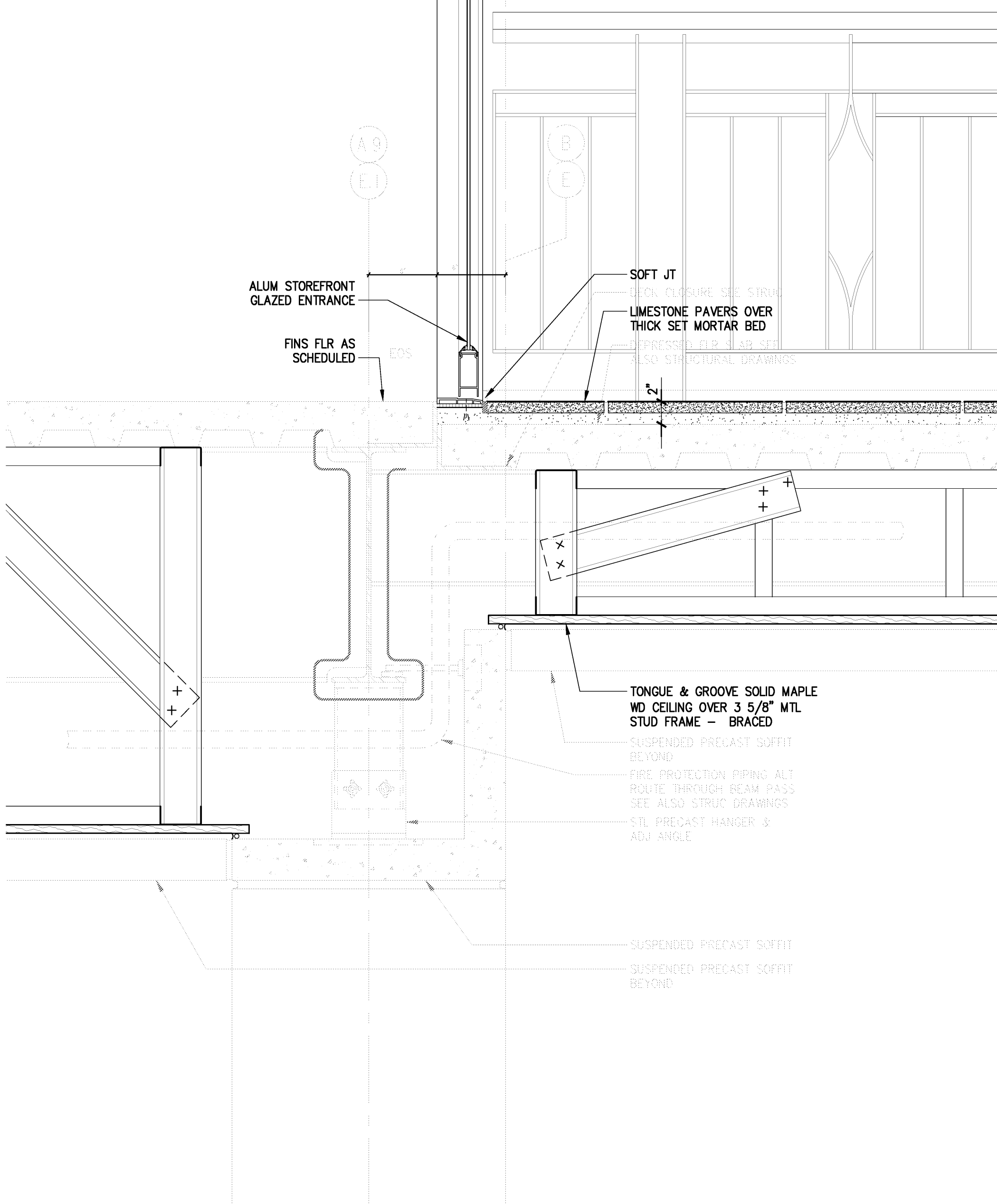
3 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



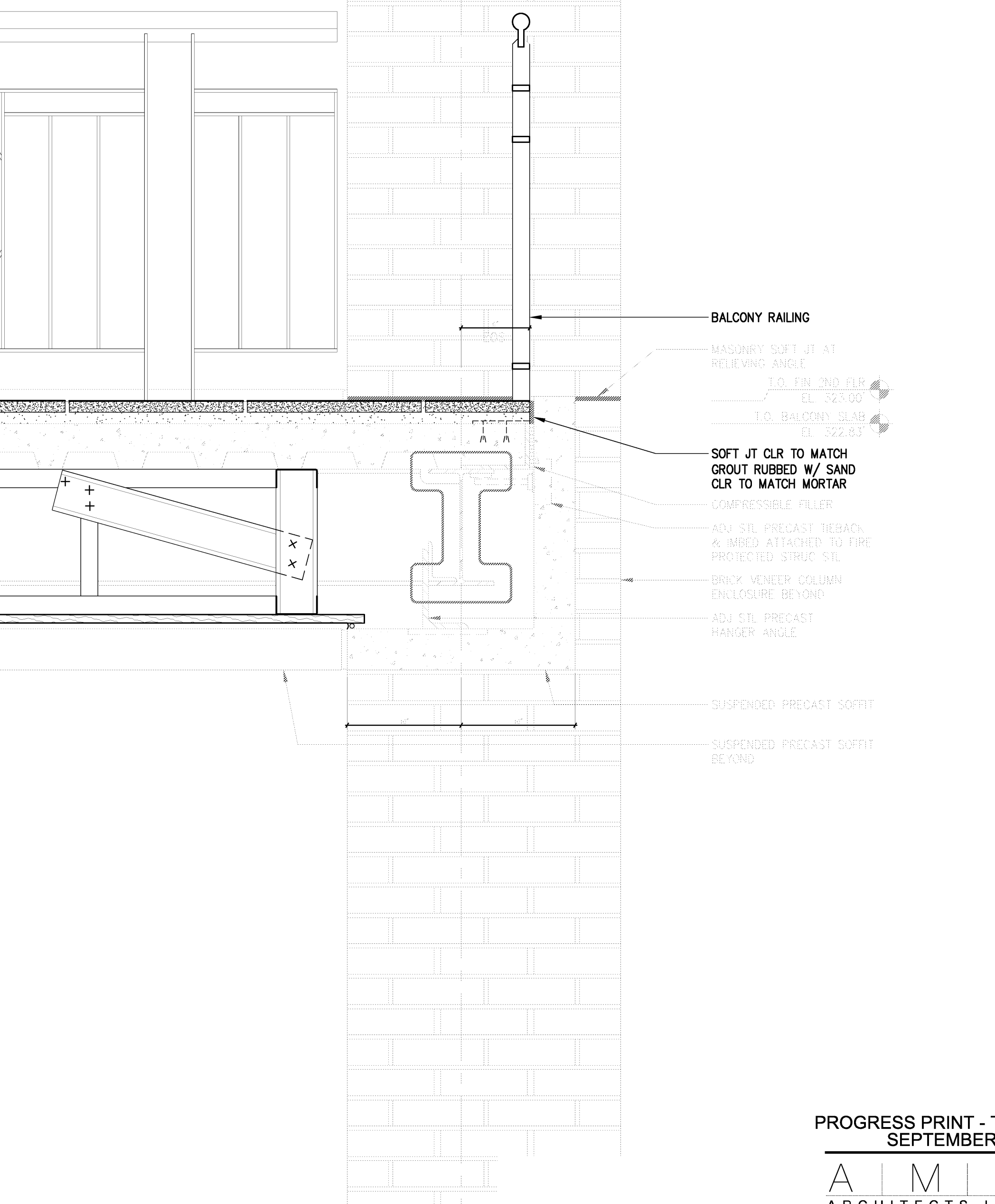
6 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



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



4 SECTION DETAIL
SCALE 3" = 1'-0"



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

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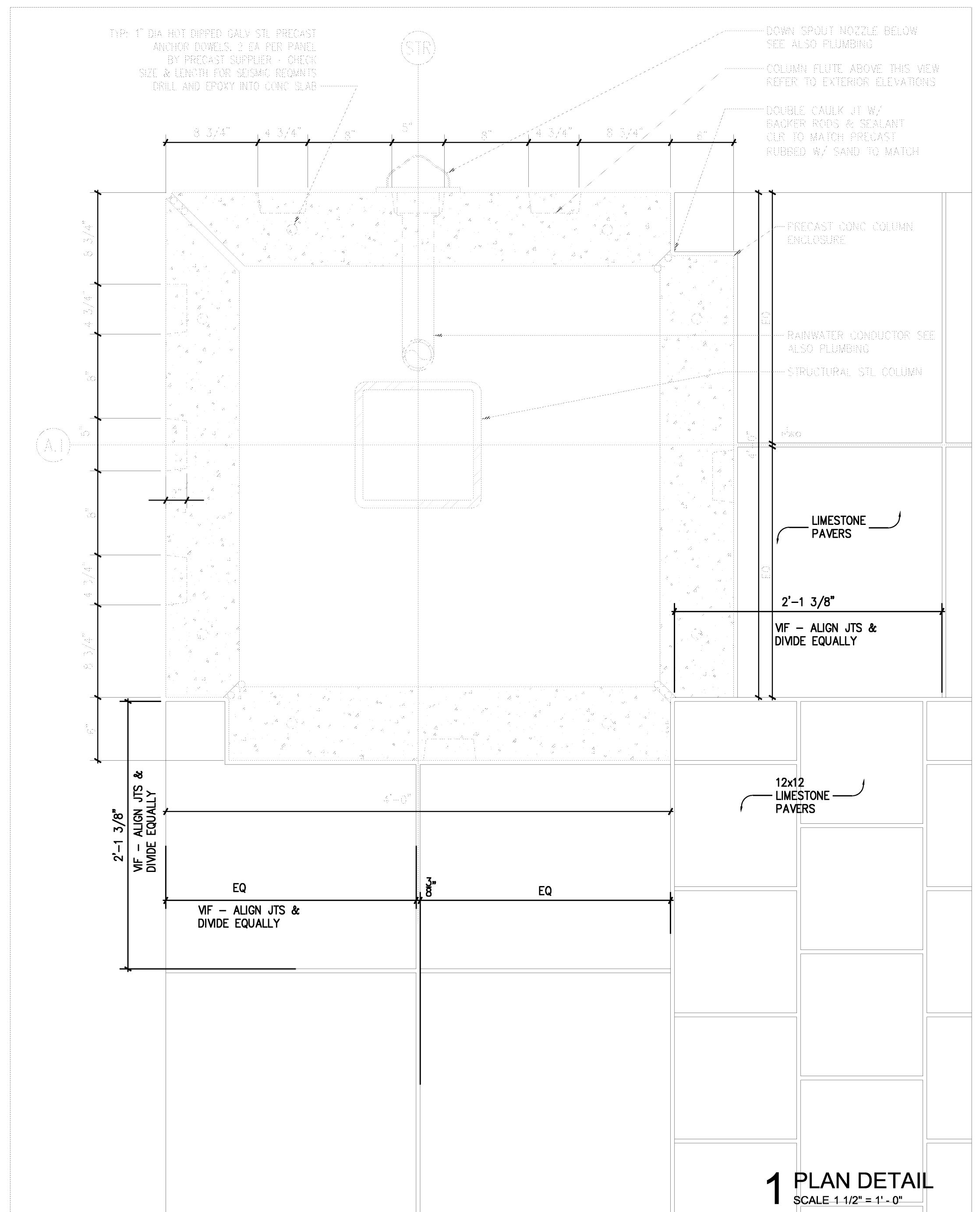
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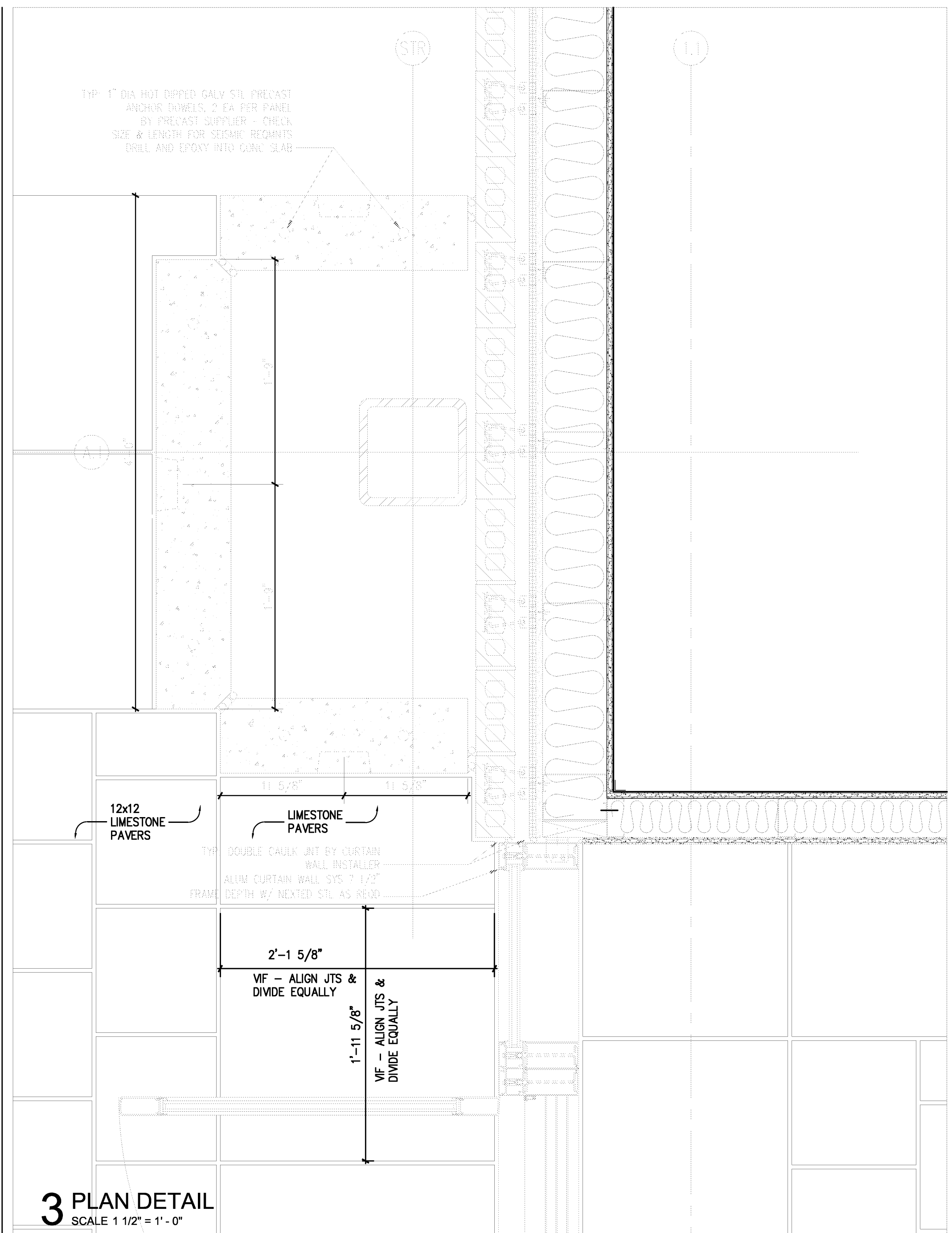


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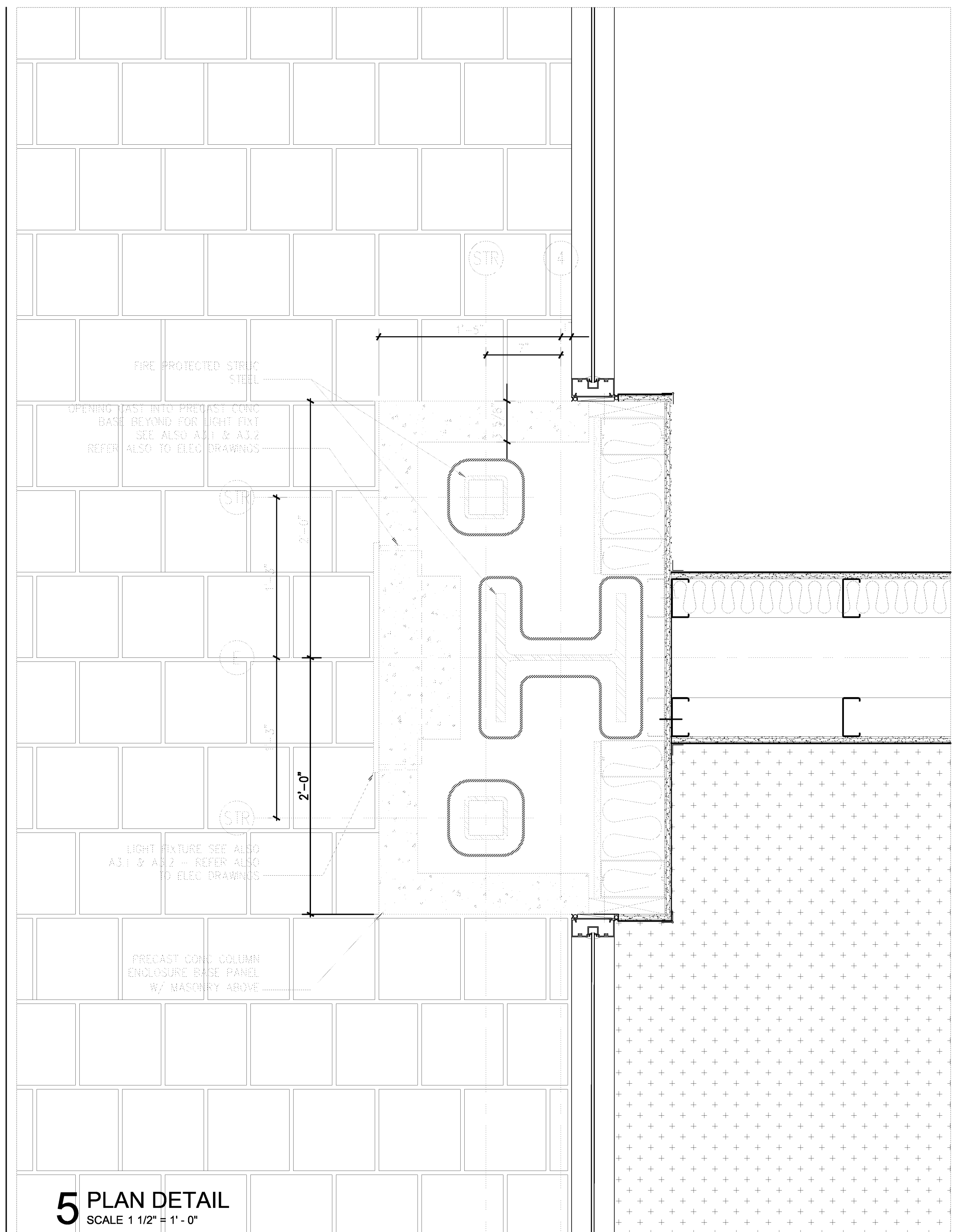
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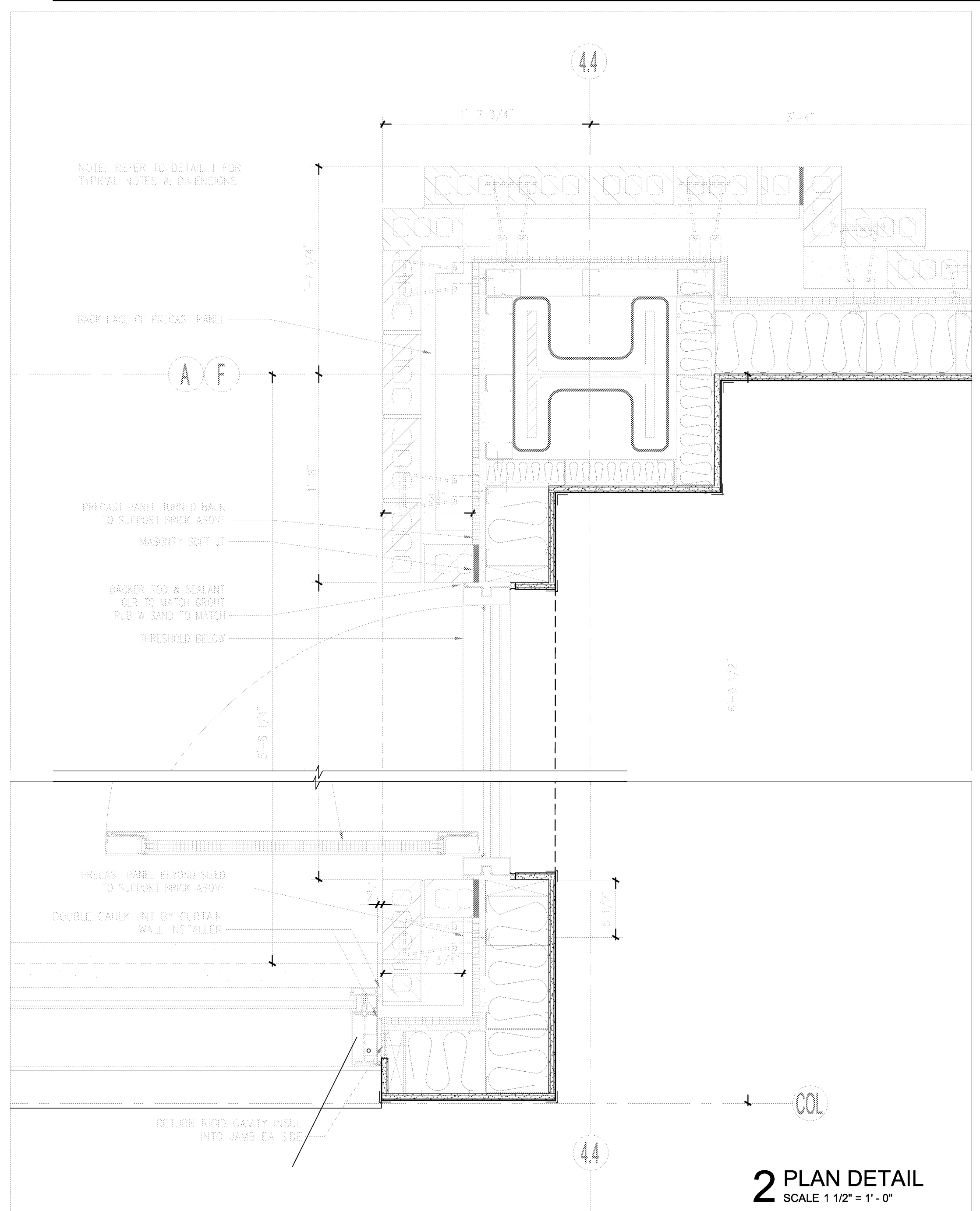
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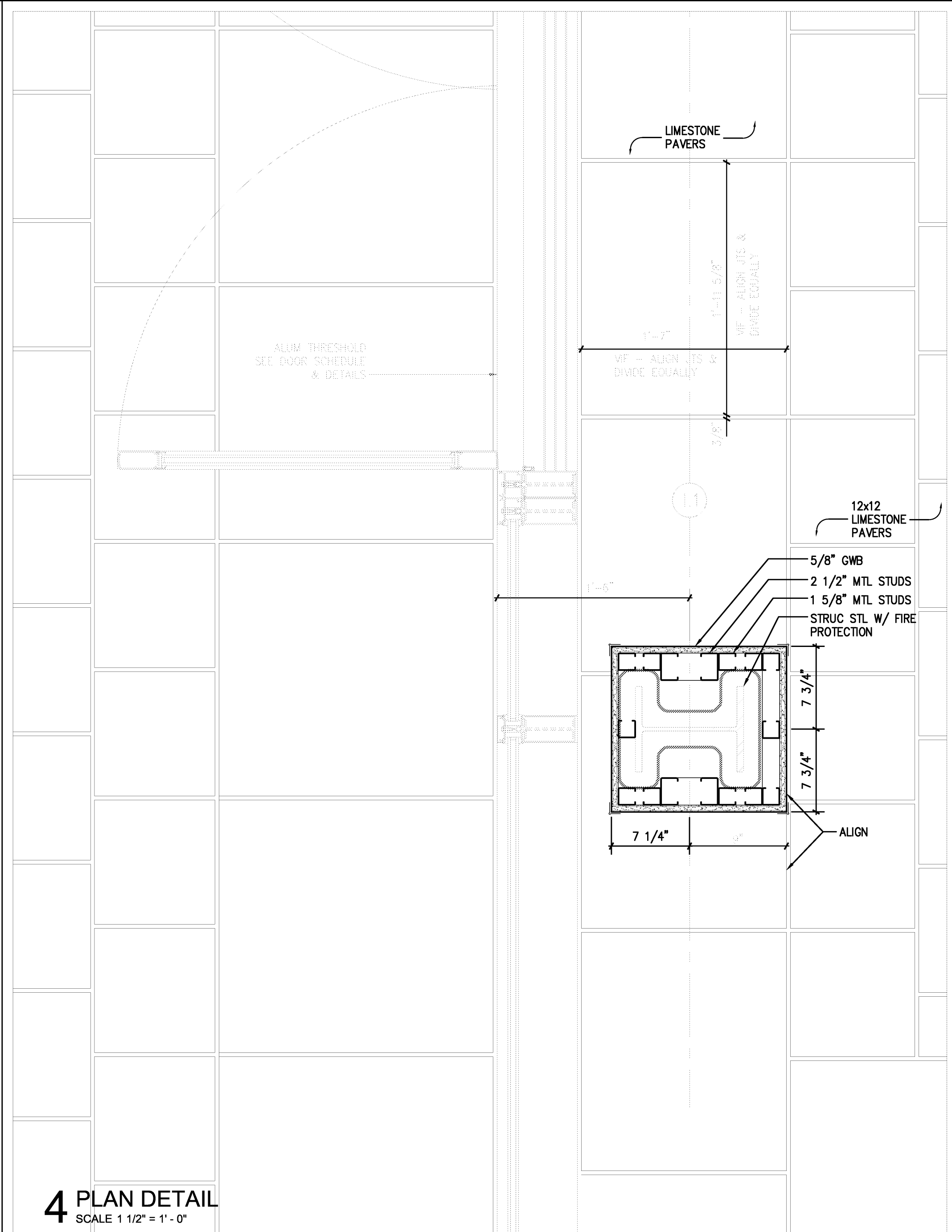
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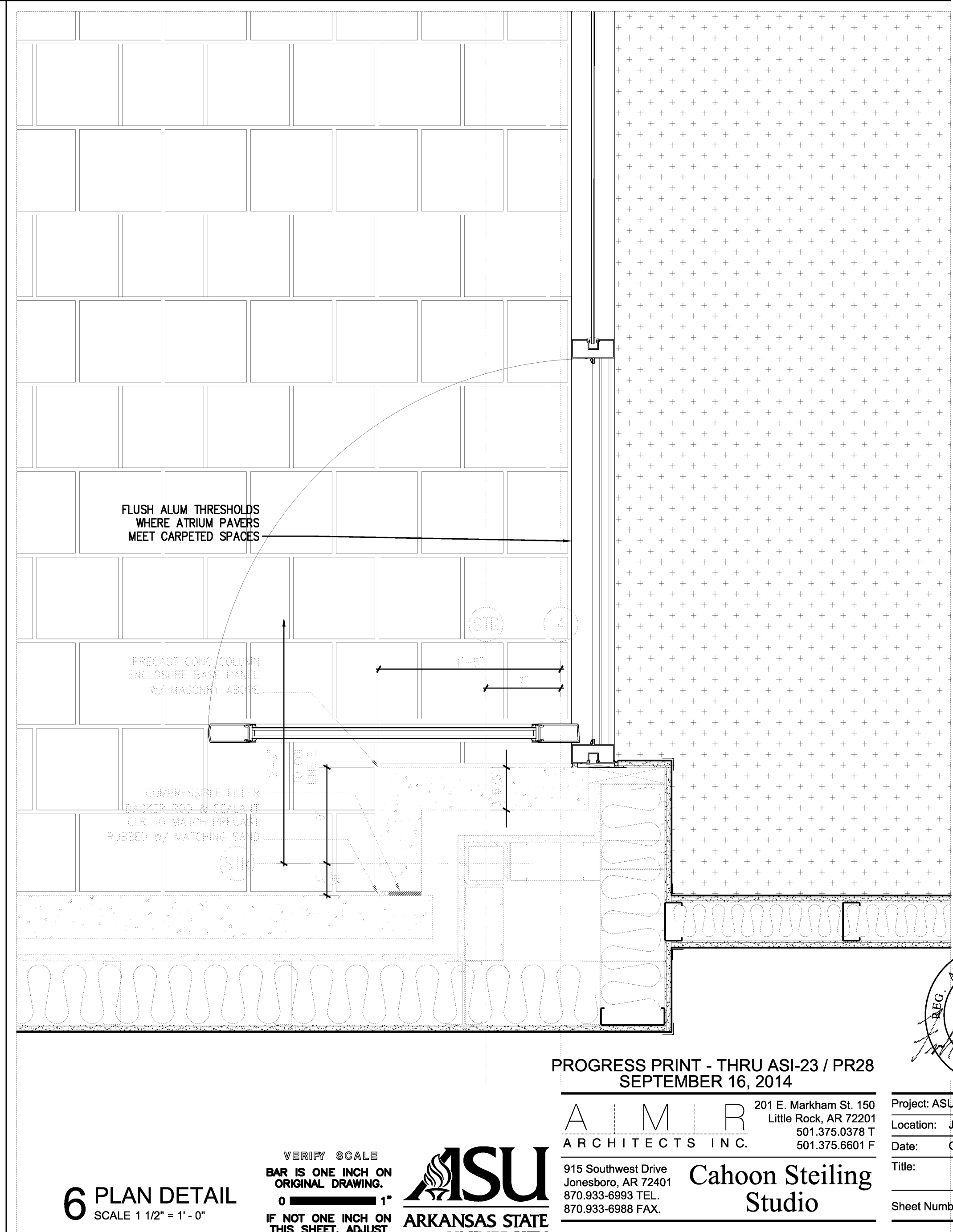
5 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



2 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



4 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



6 PLAN DETAIL
SCALE 1 1/2" = 1'-0"

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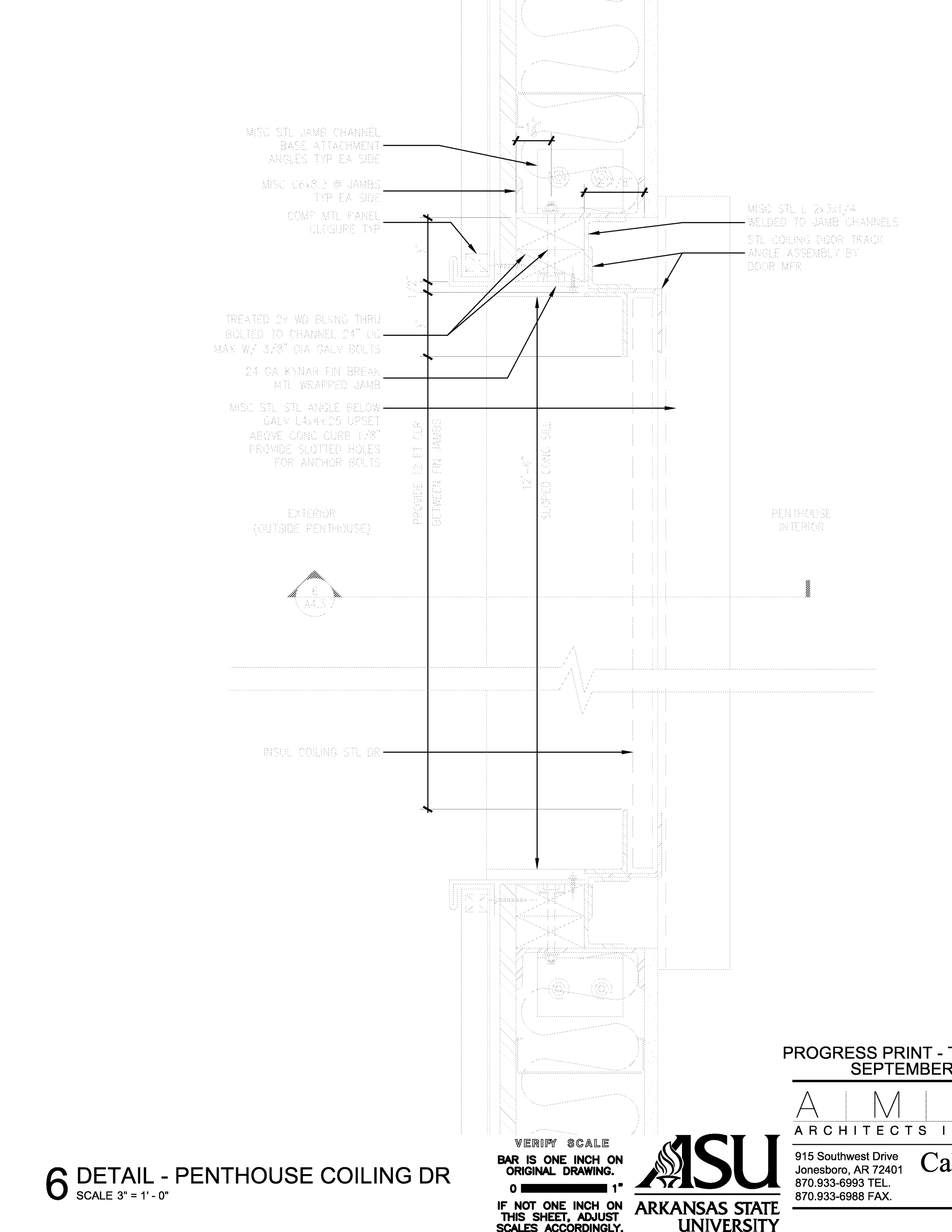
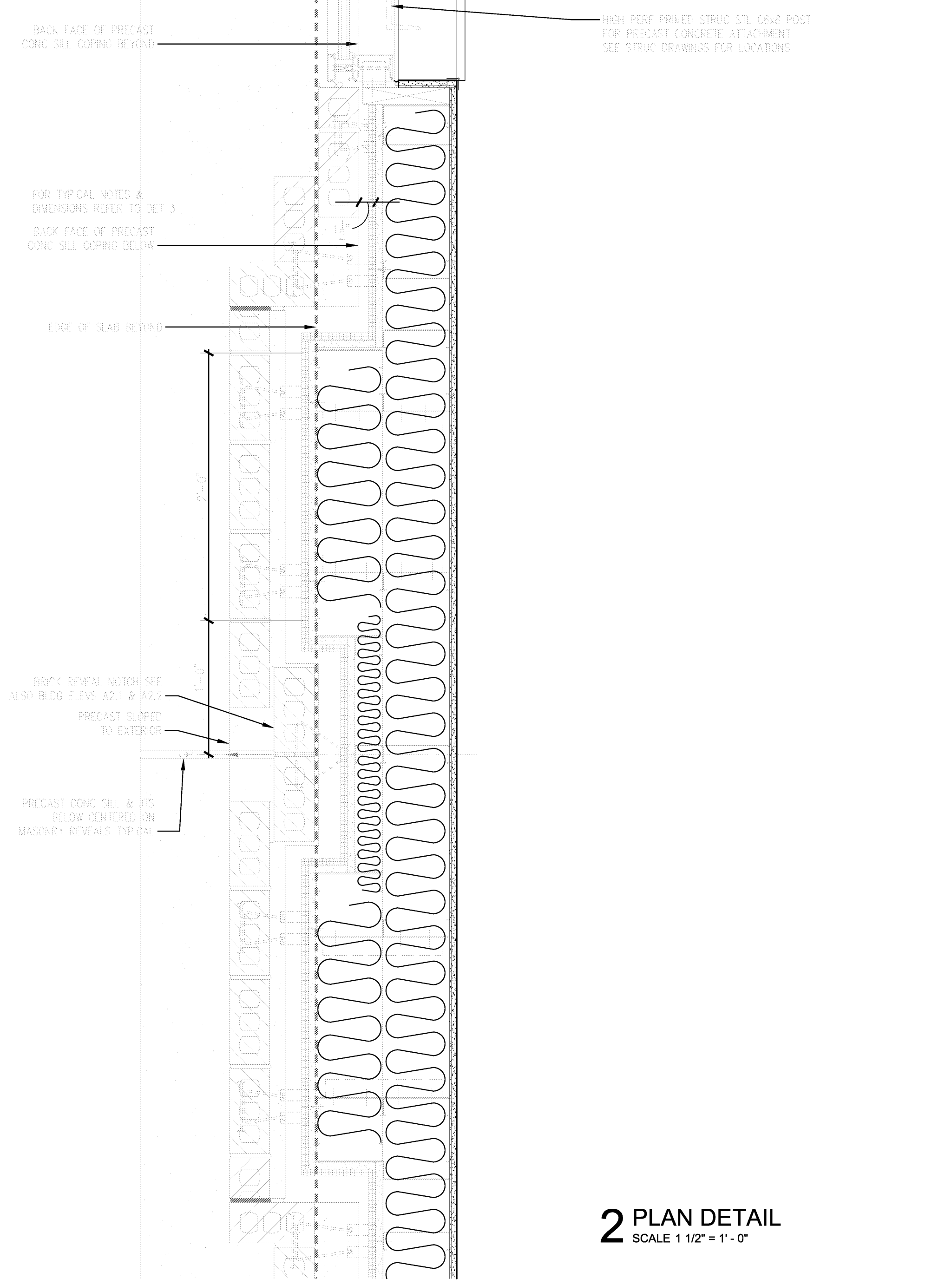
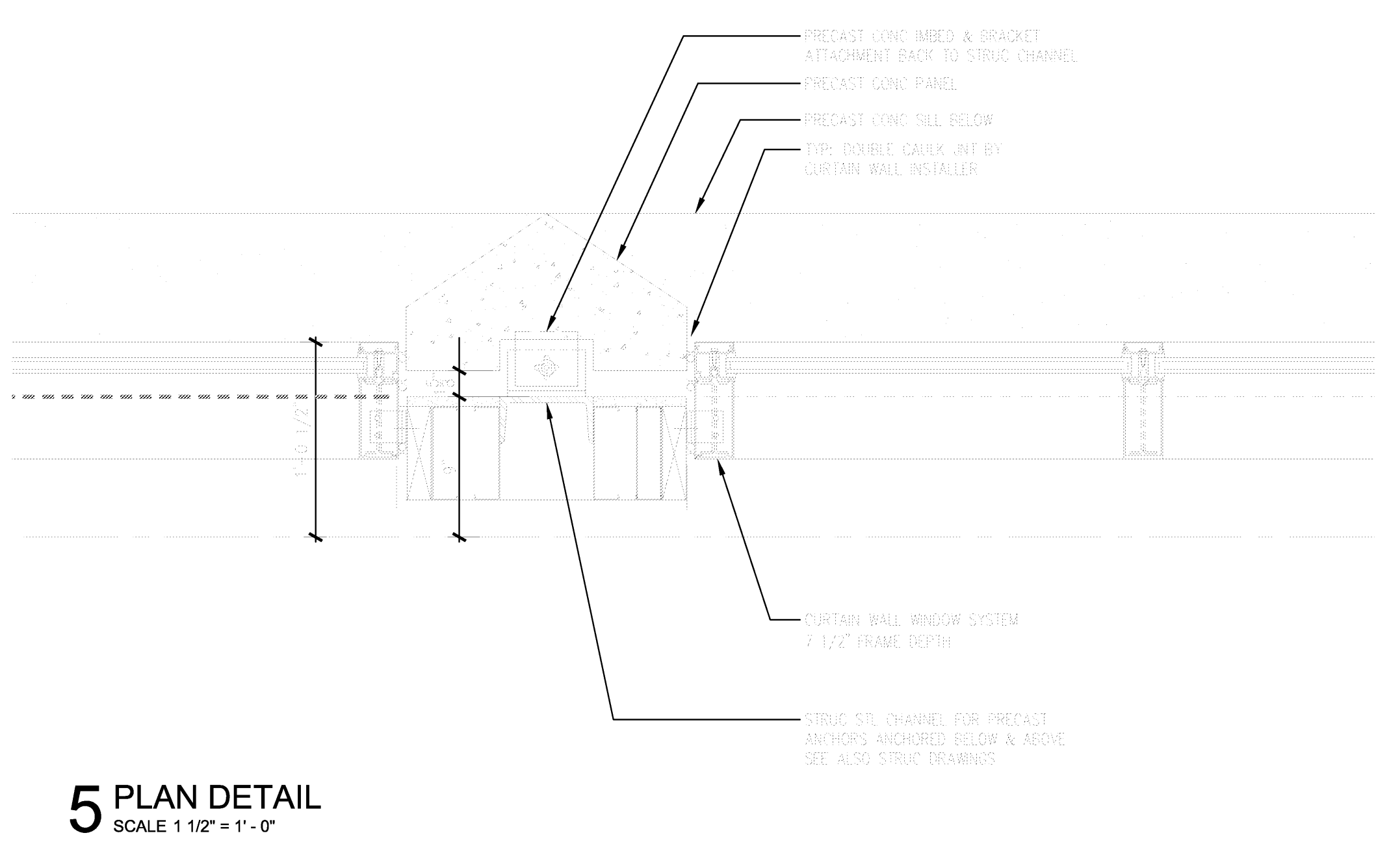
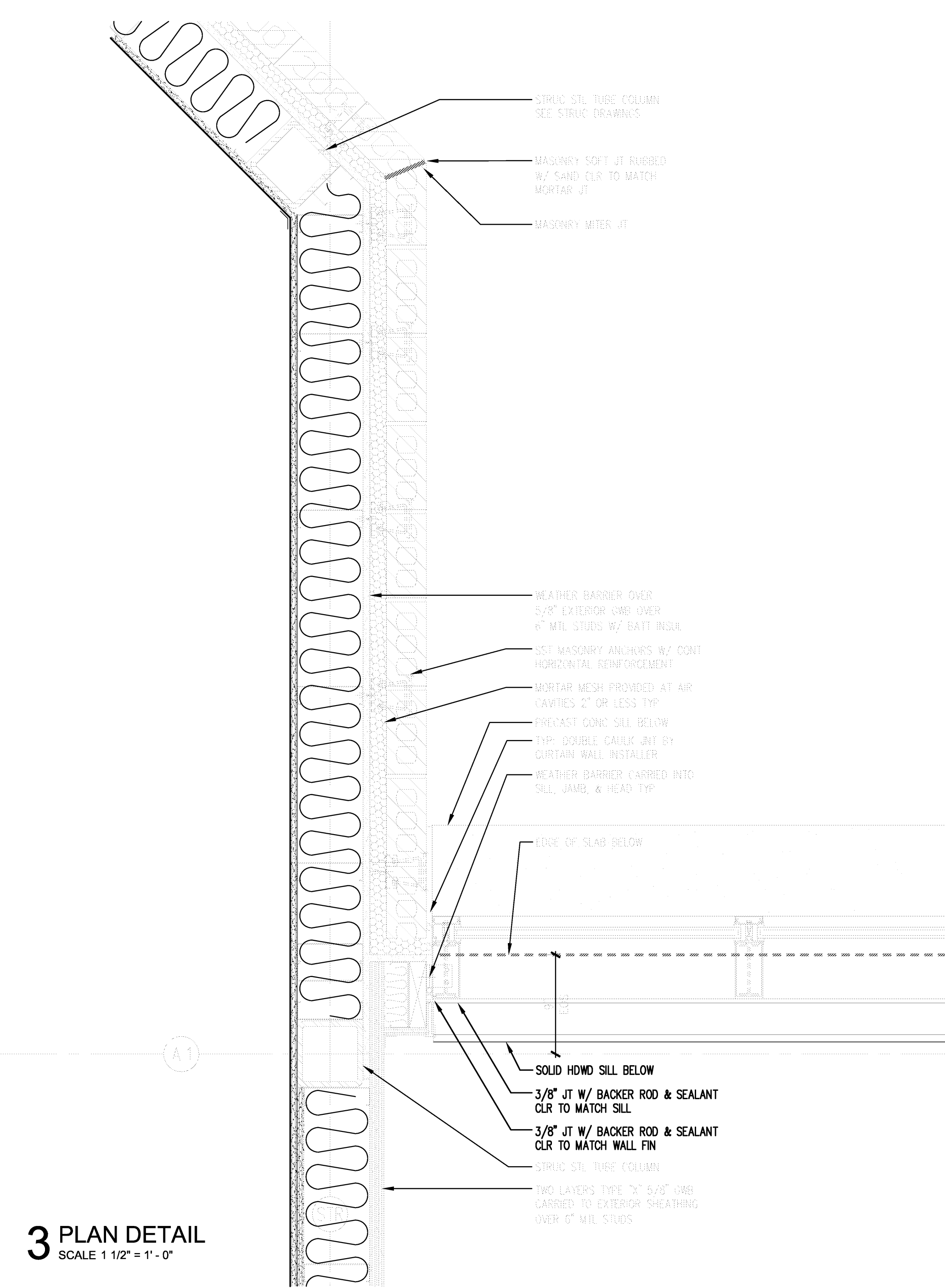
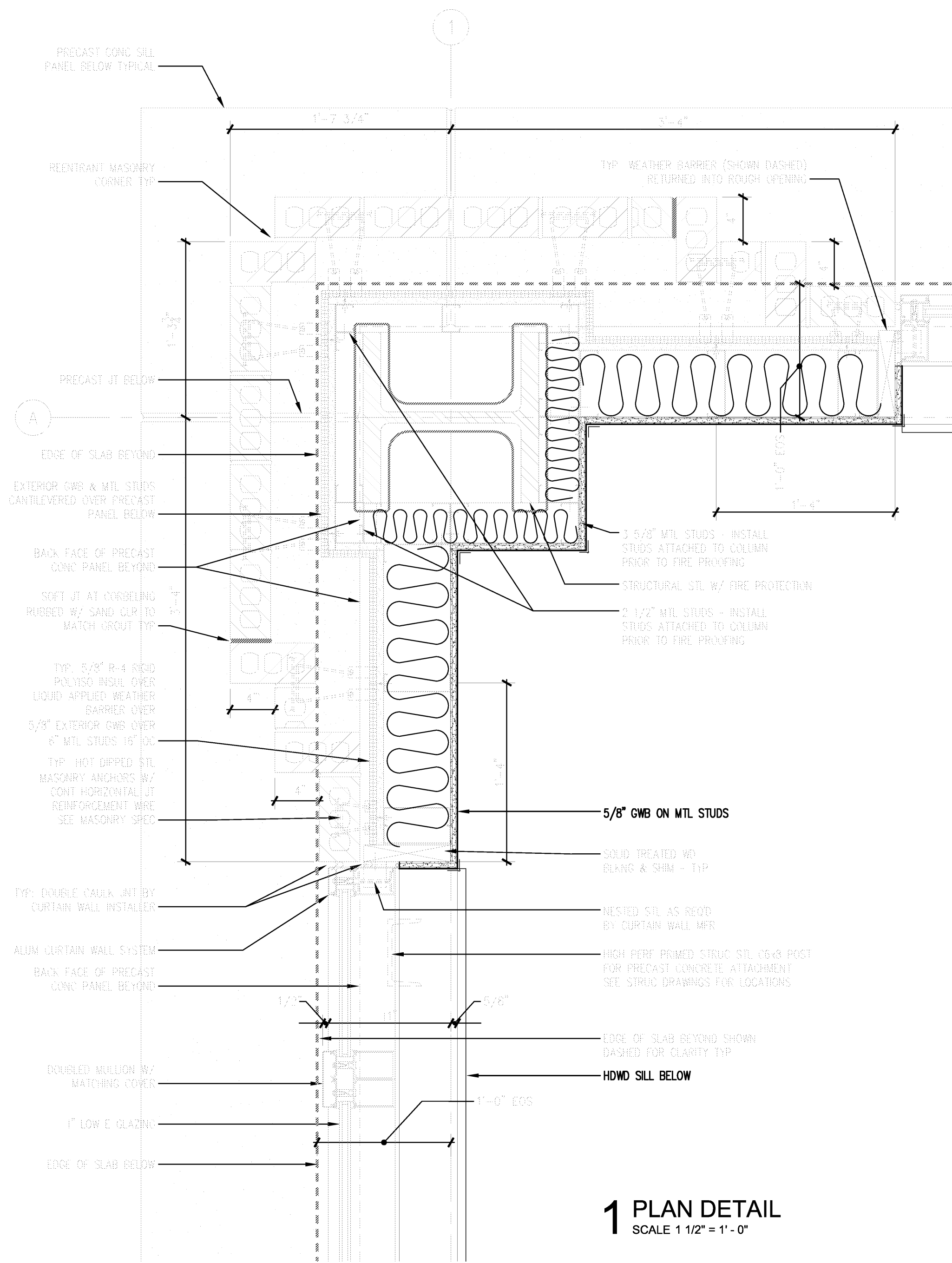
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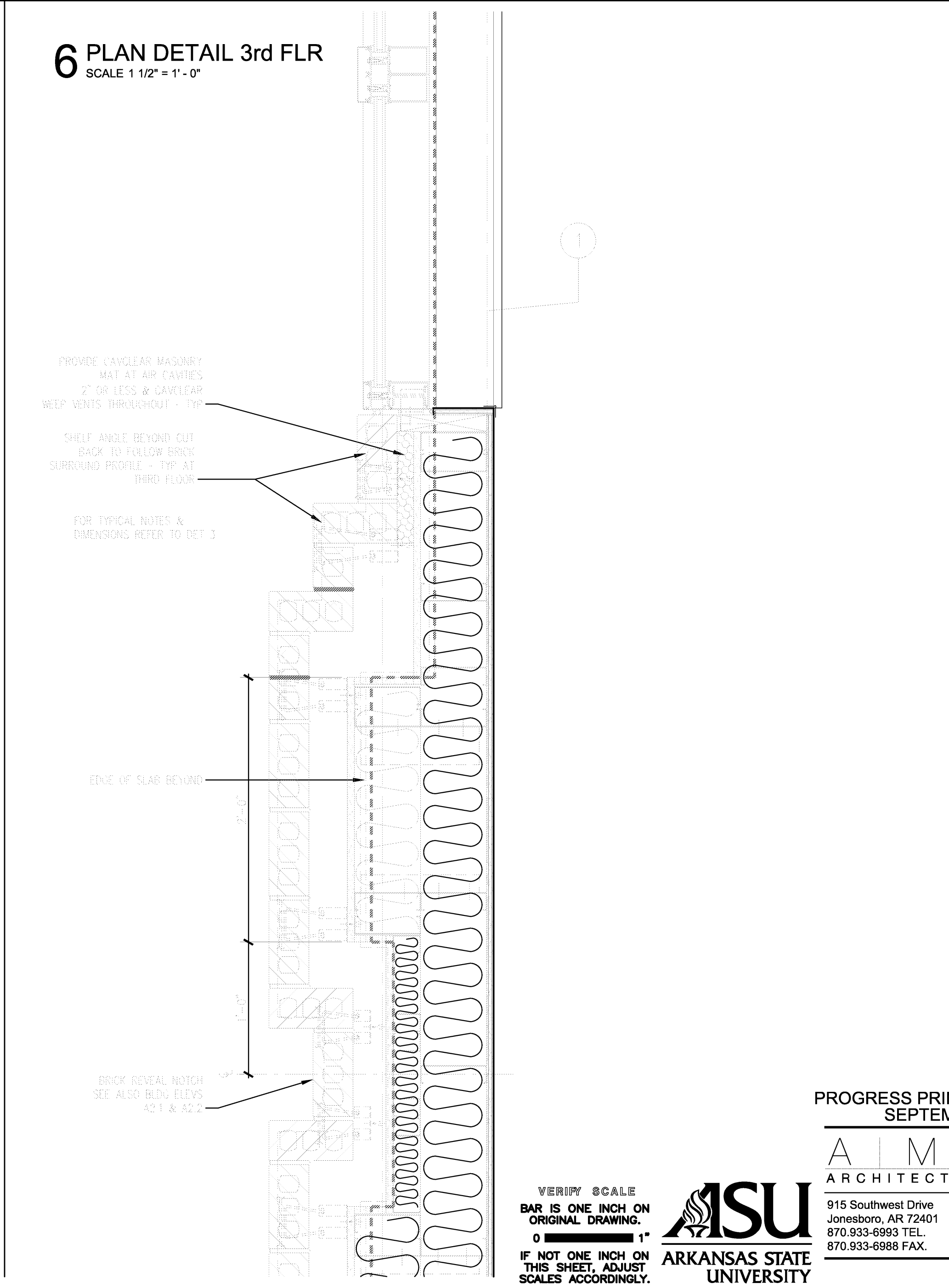
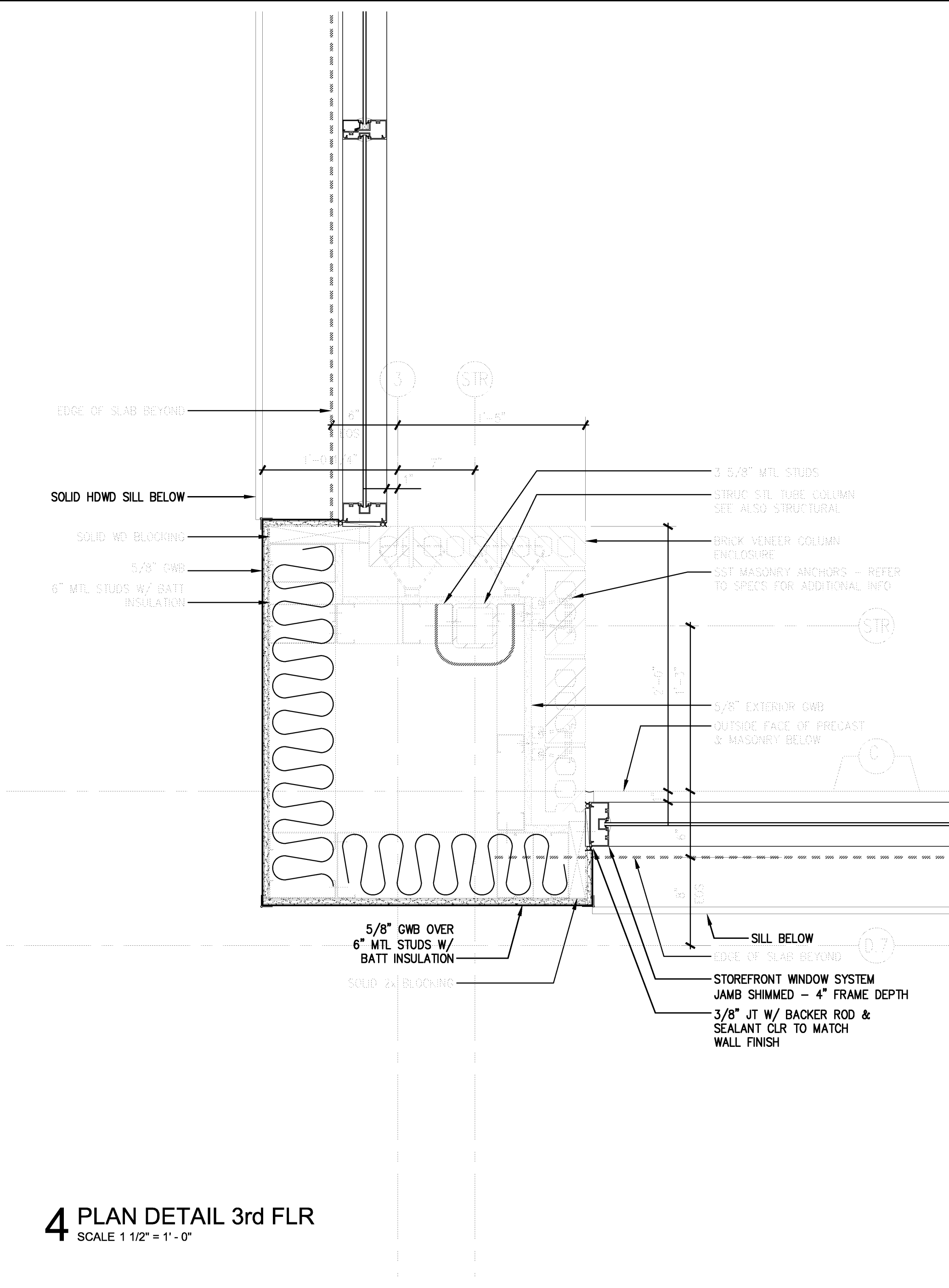
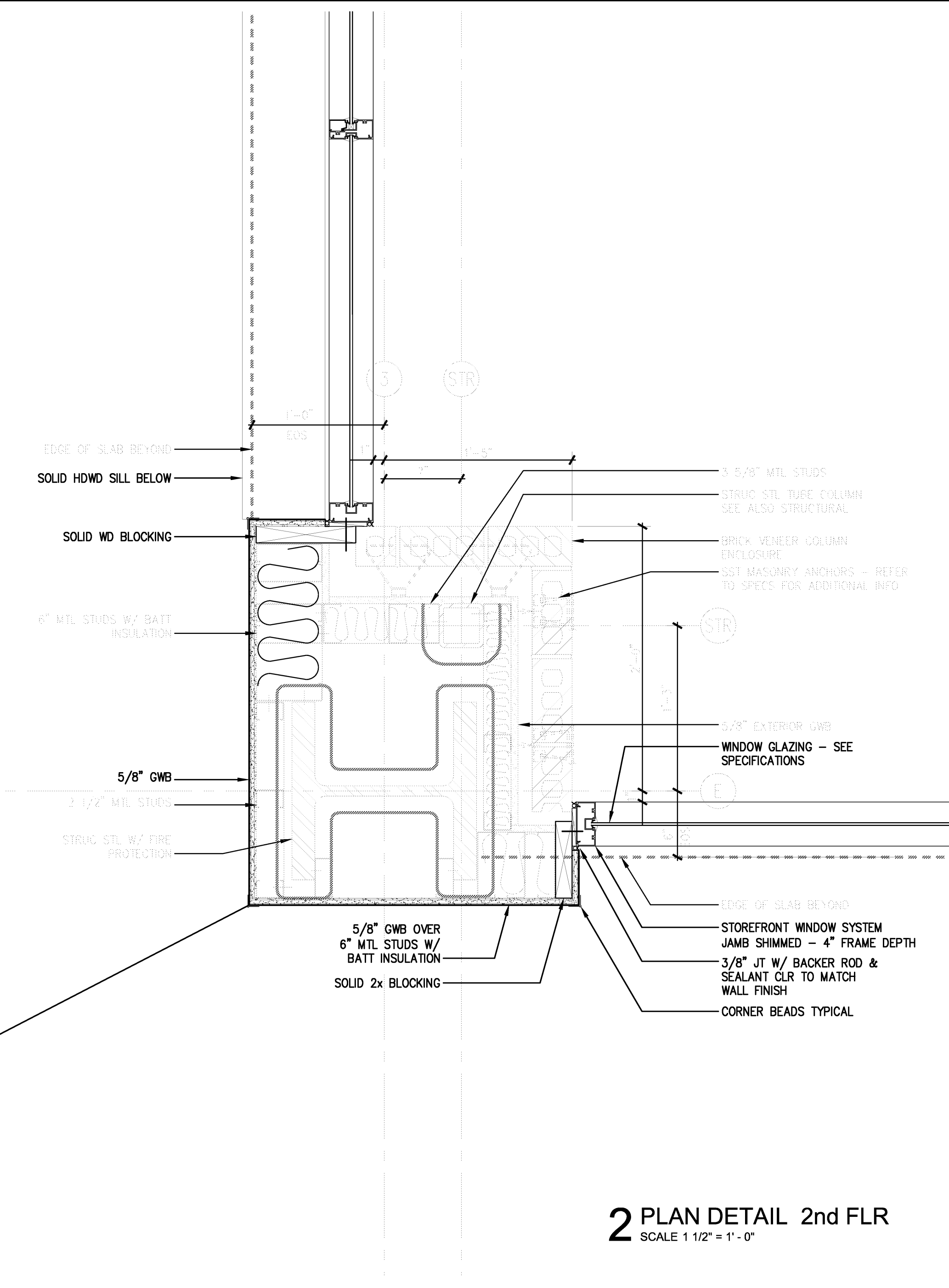
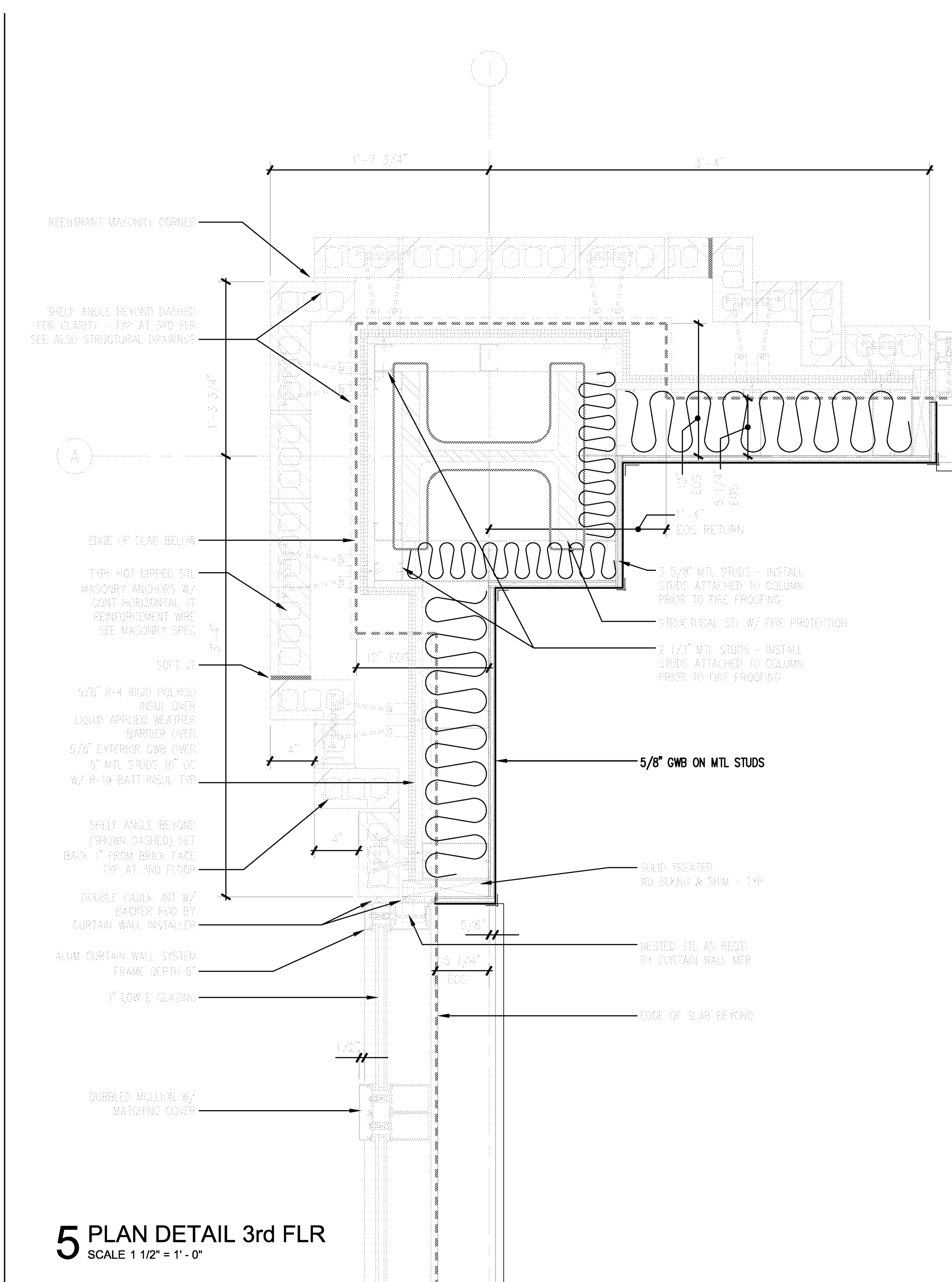
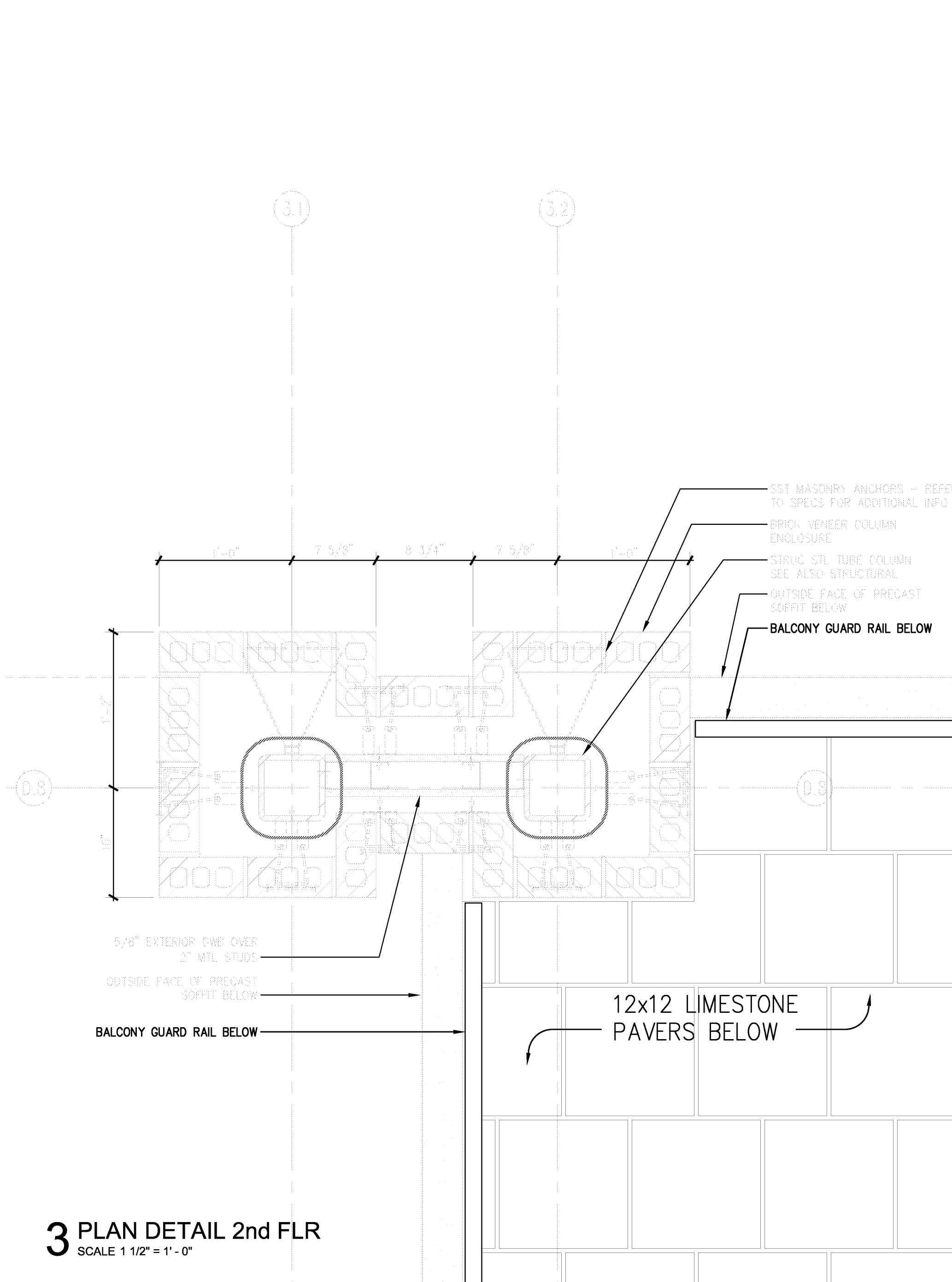
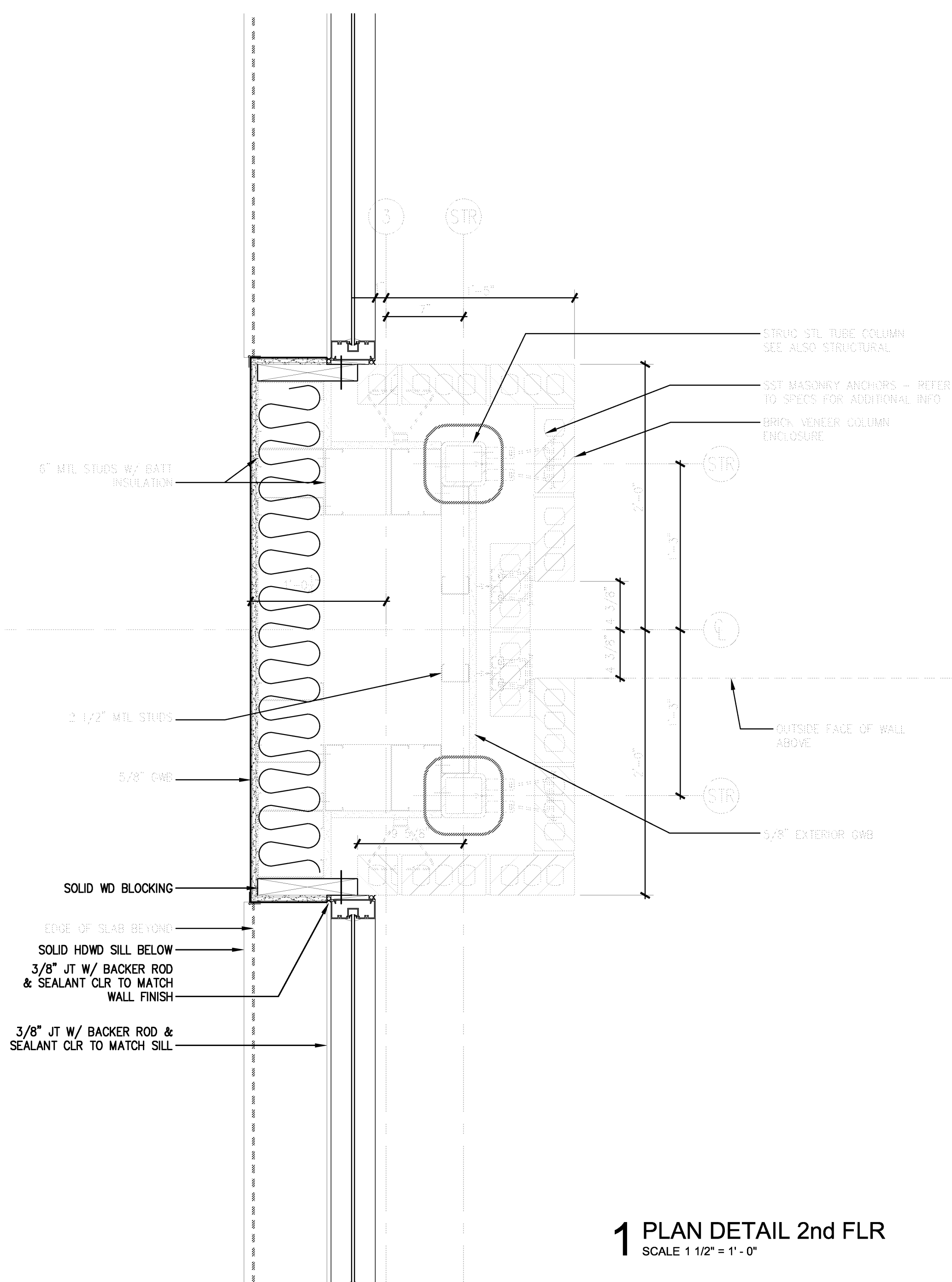


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Title: PLAN DETAILS
Sheet Number: A4.3

Arkansas State University logo



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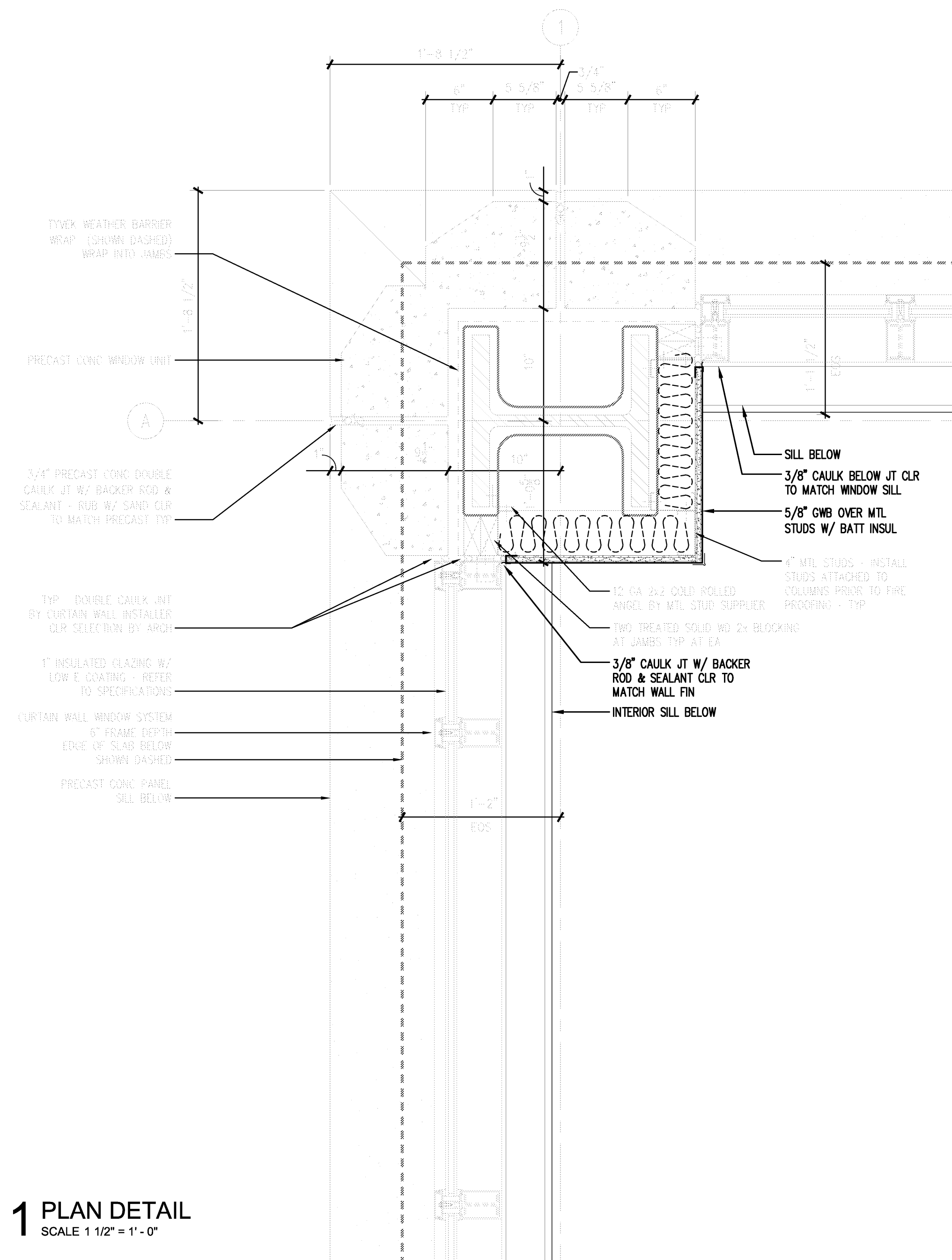


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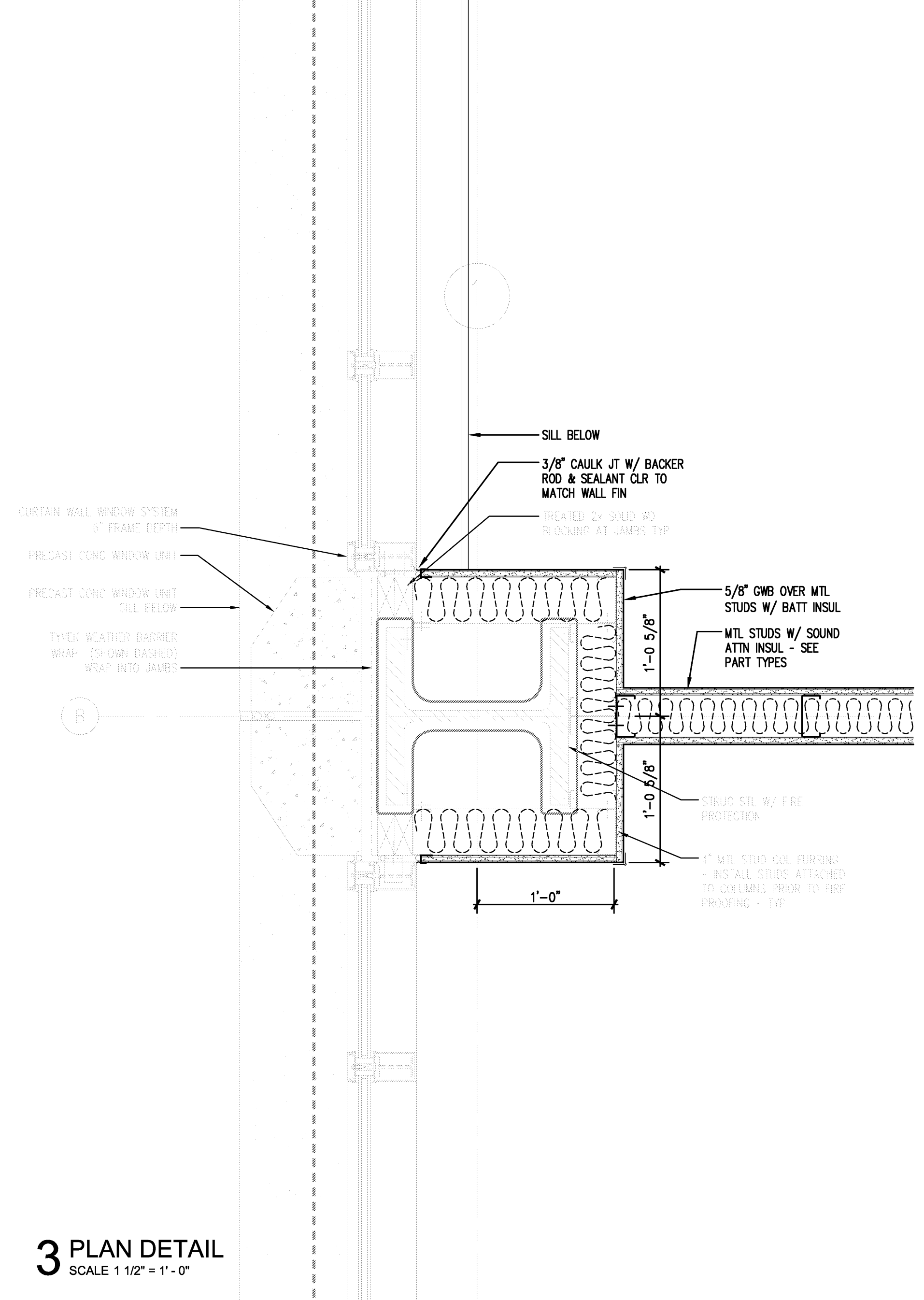
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Title: PLAN DETAILS
Sheet Number: A4.4

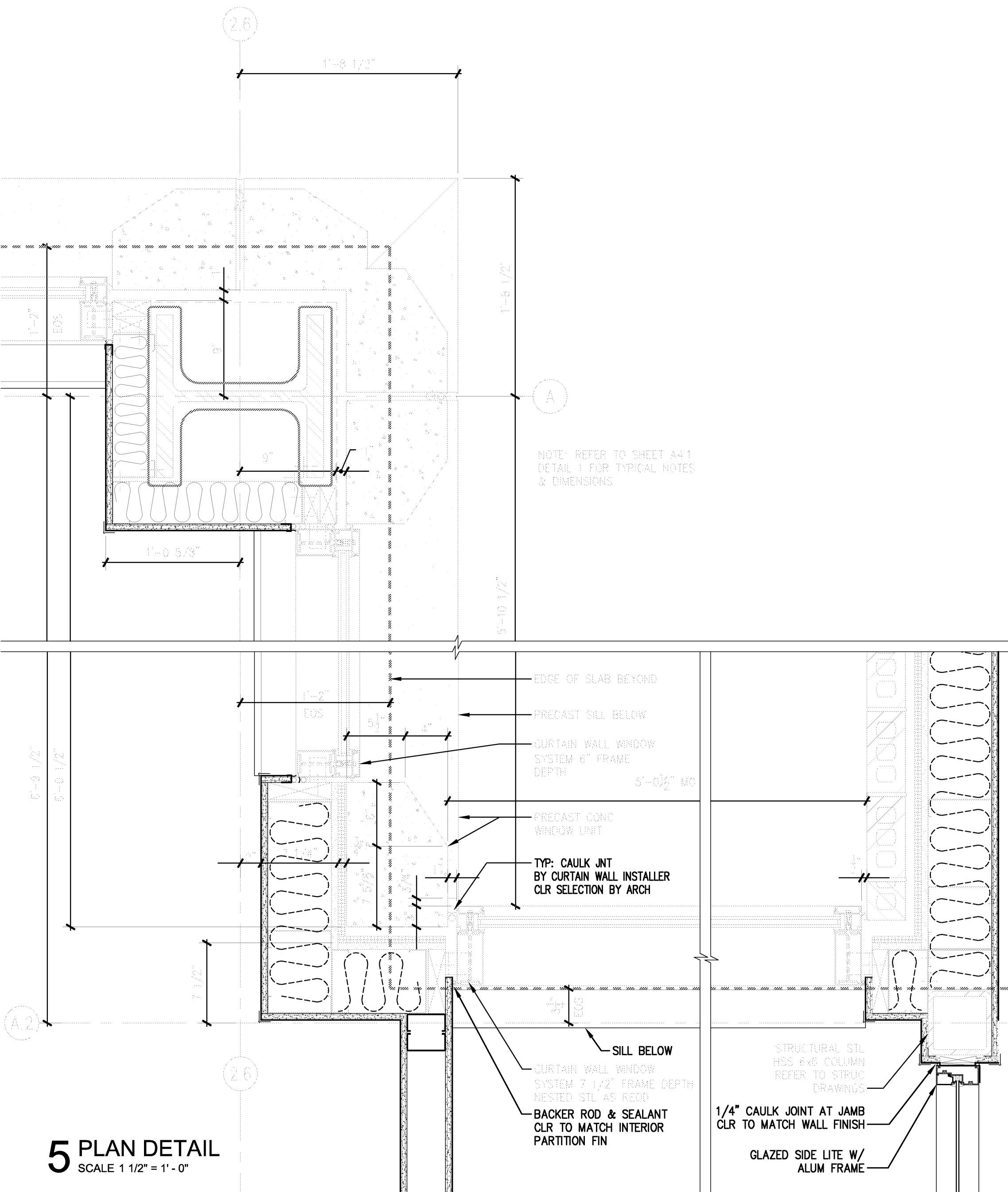




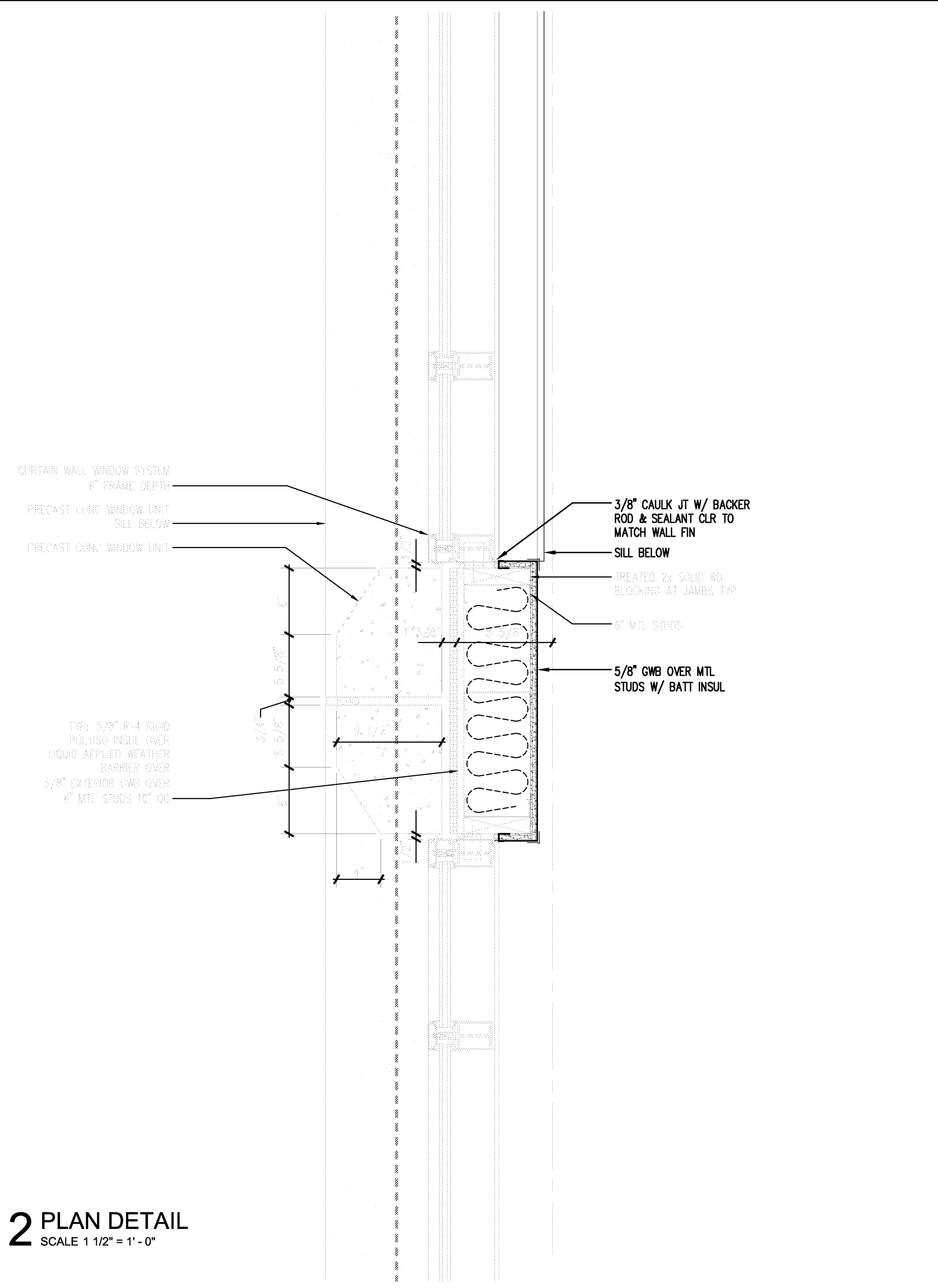
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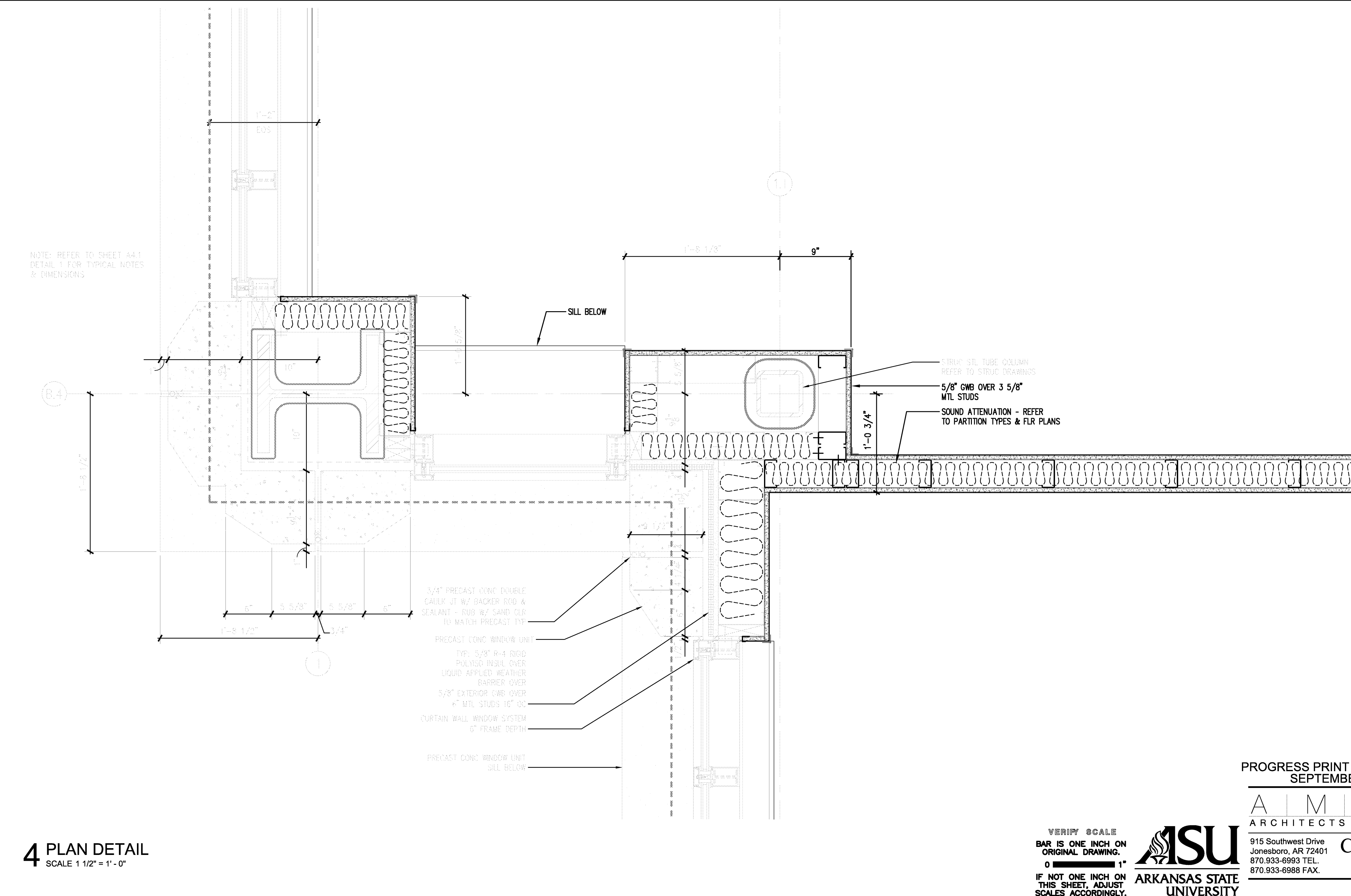
3 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



5 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



2 PLAN DETAIL
SCALE 1 1/2" = 1'-0"



4 PLAN DETAIL
SCALE 1 1/2" = 1'-0"

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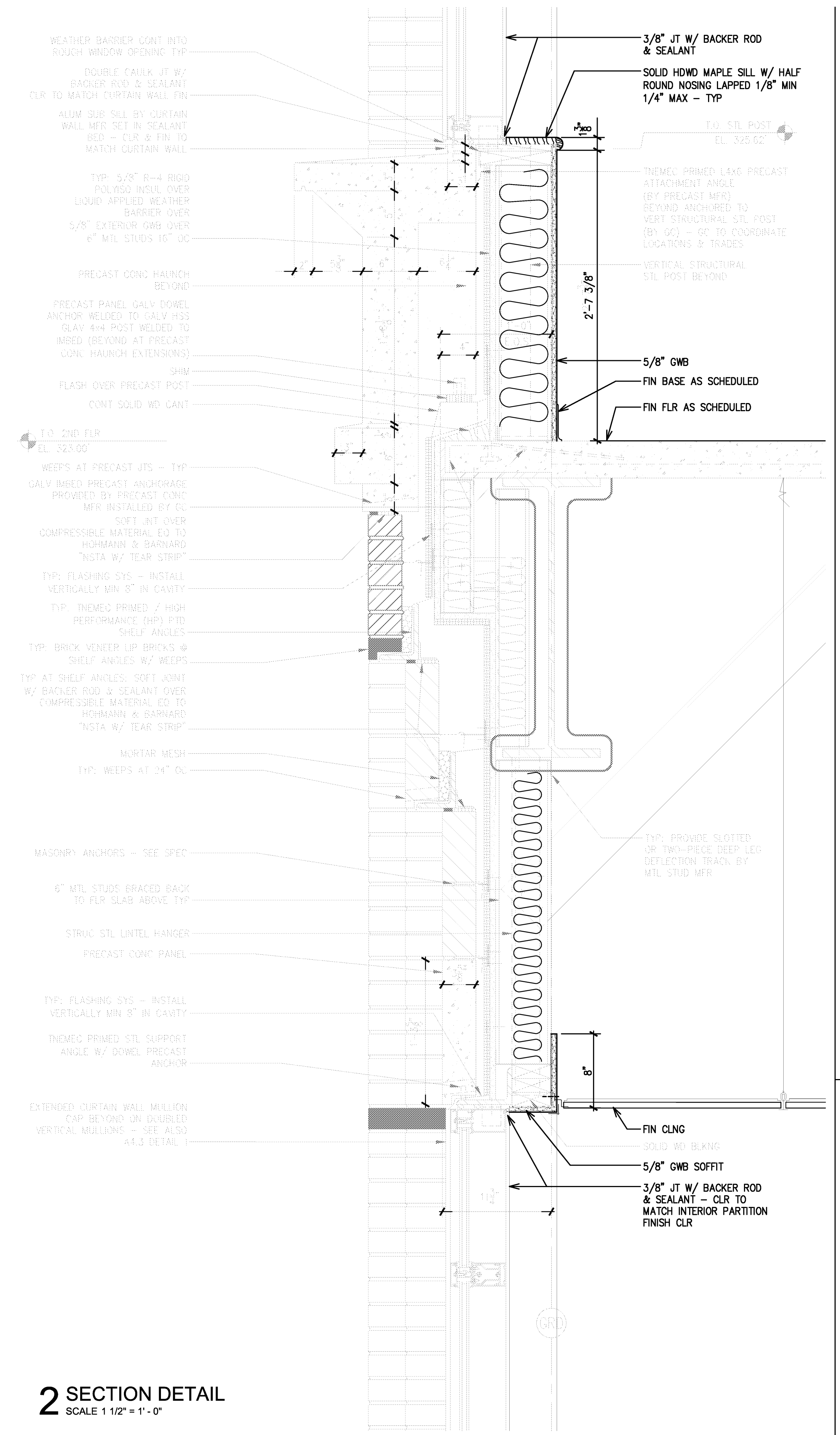
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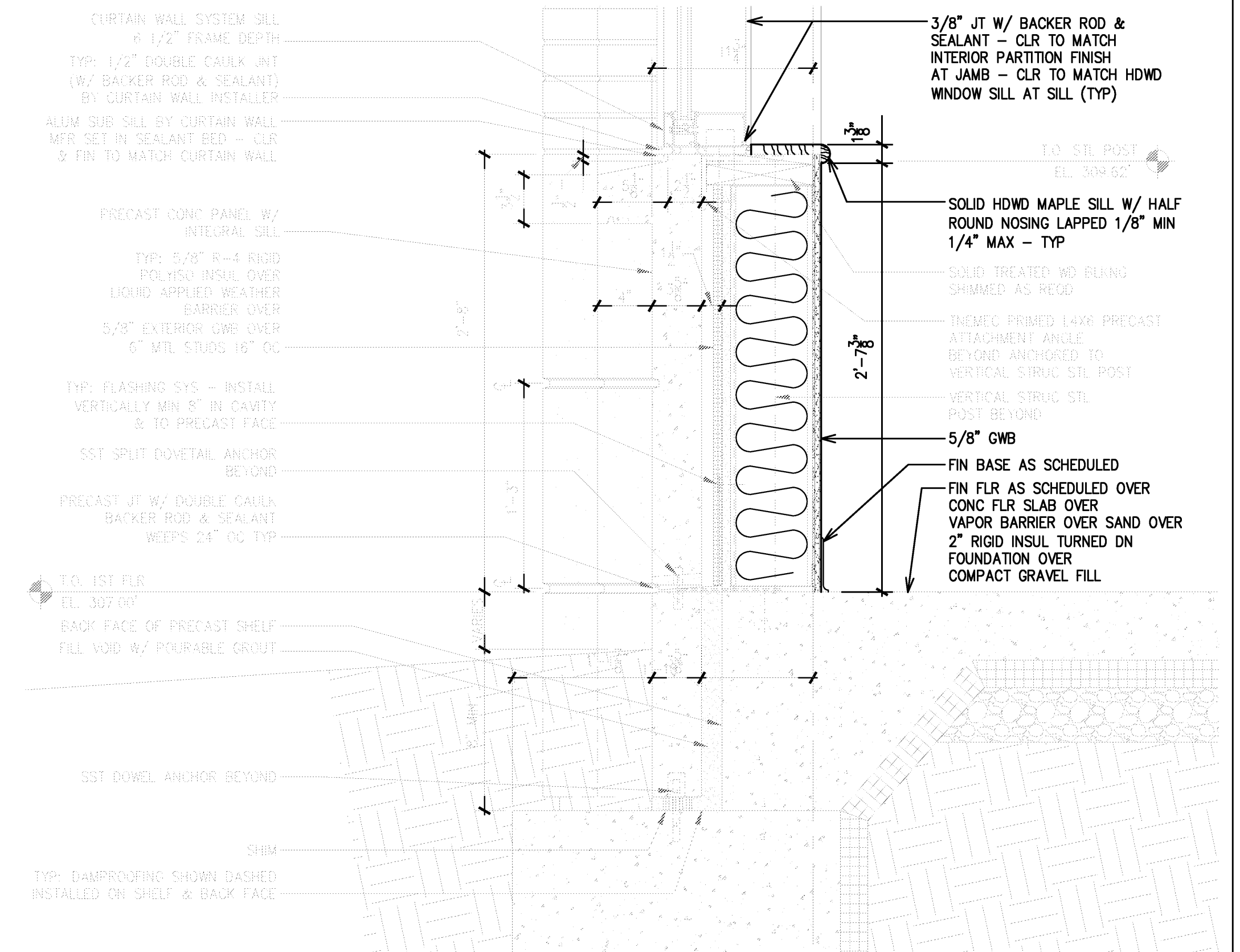
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Location: Jonesboro, AR
Date: October 03, 2013
Title: PLAN DETAILS
Sheet Number: **A4.5**

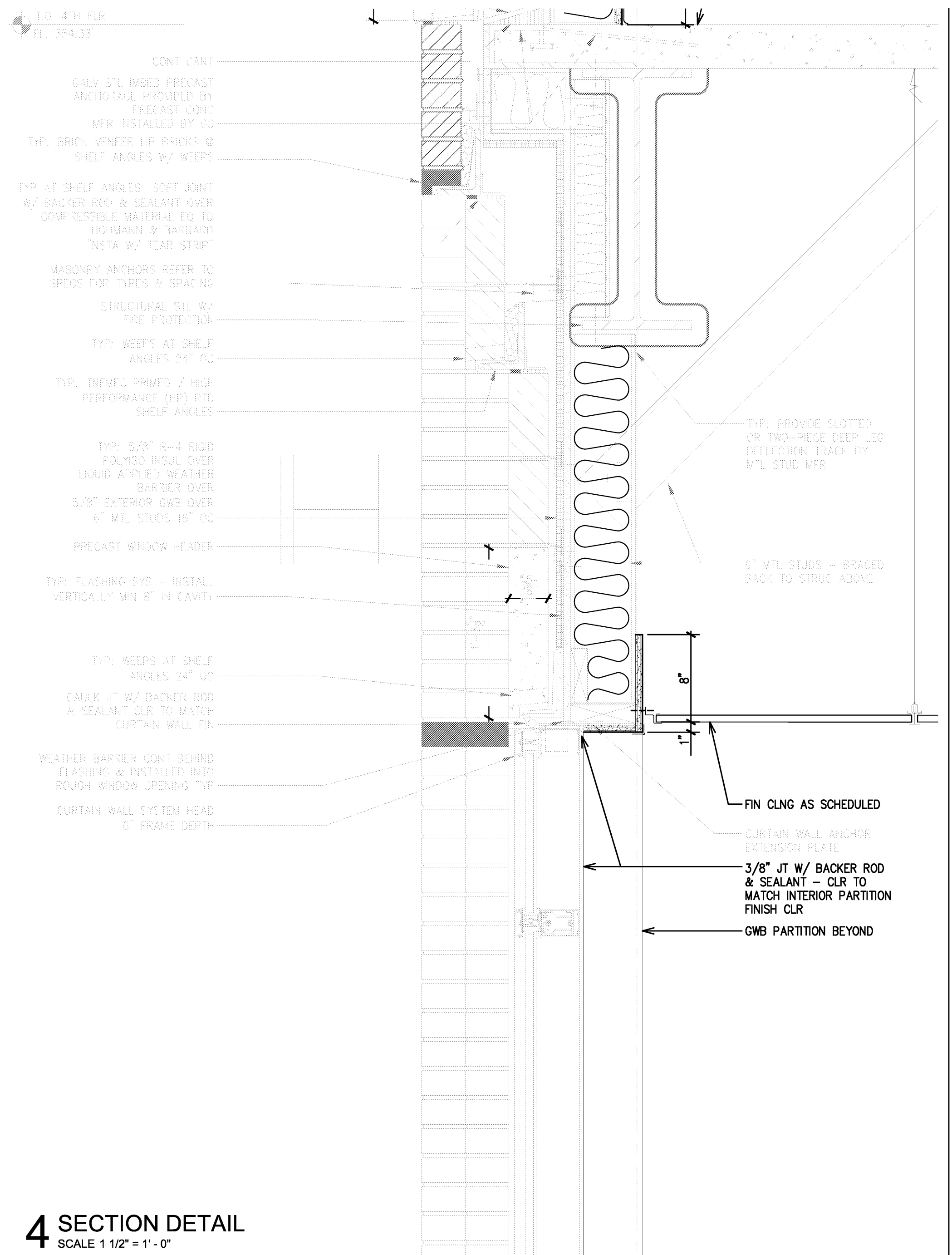




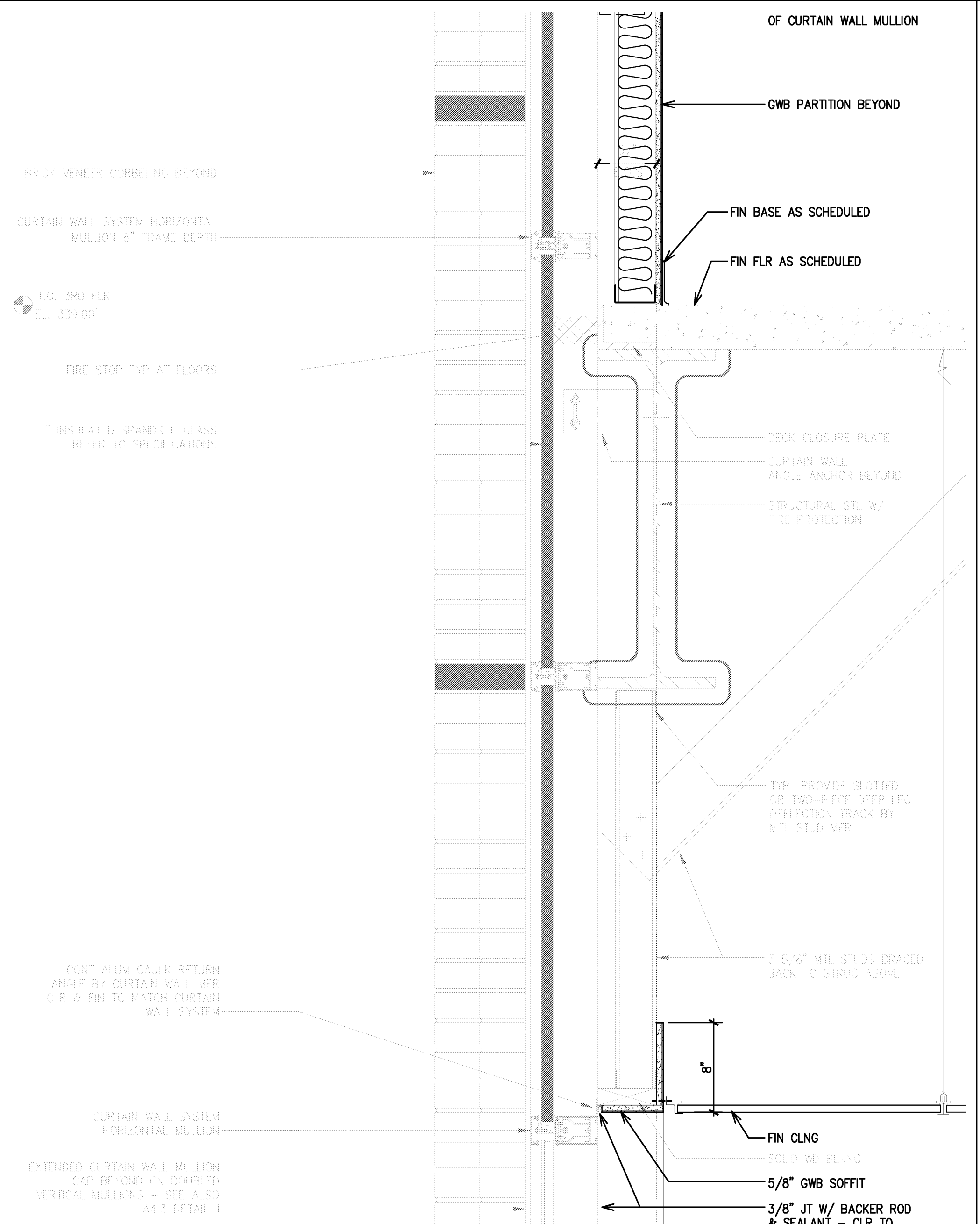
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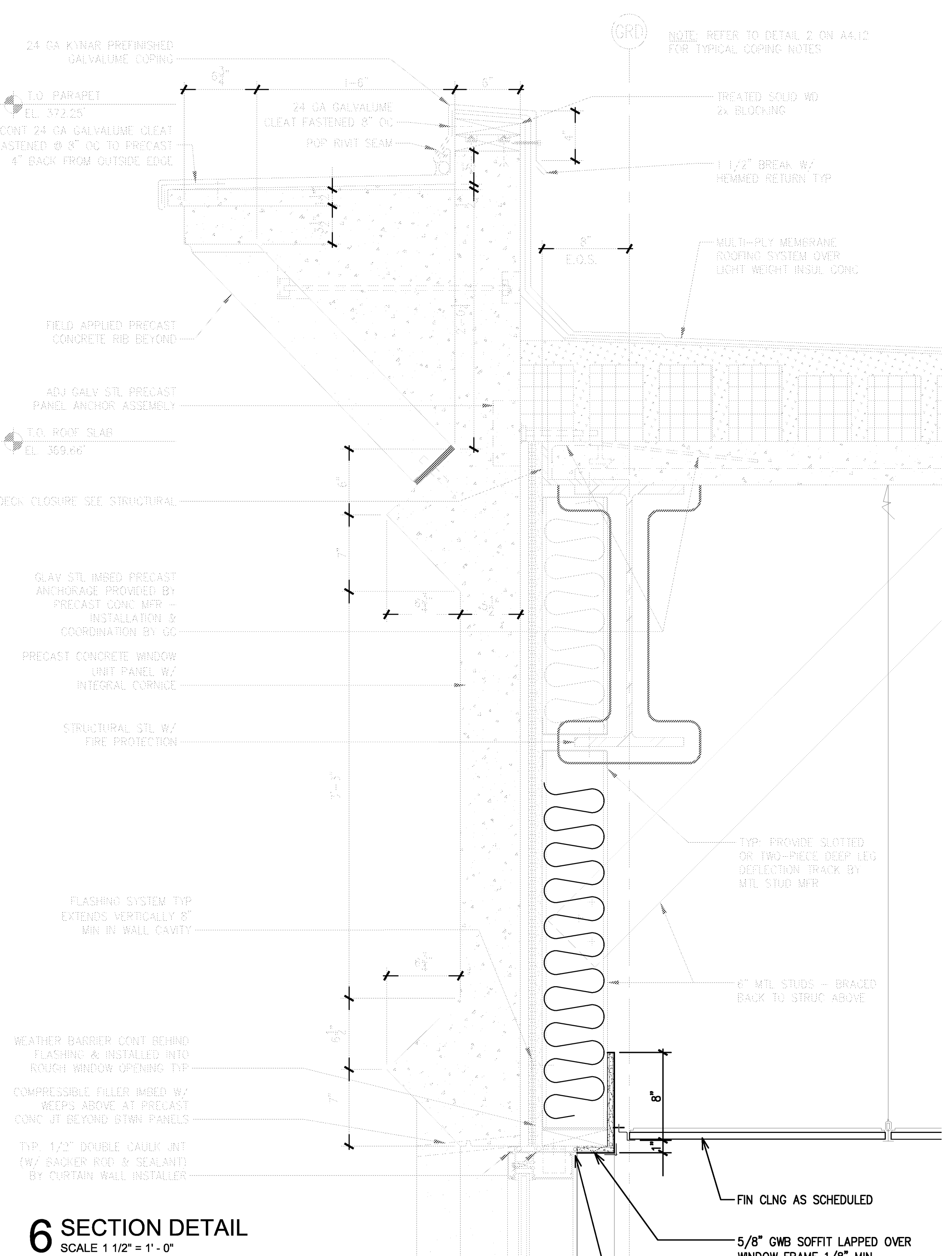
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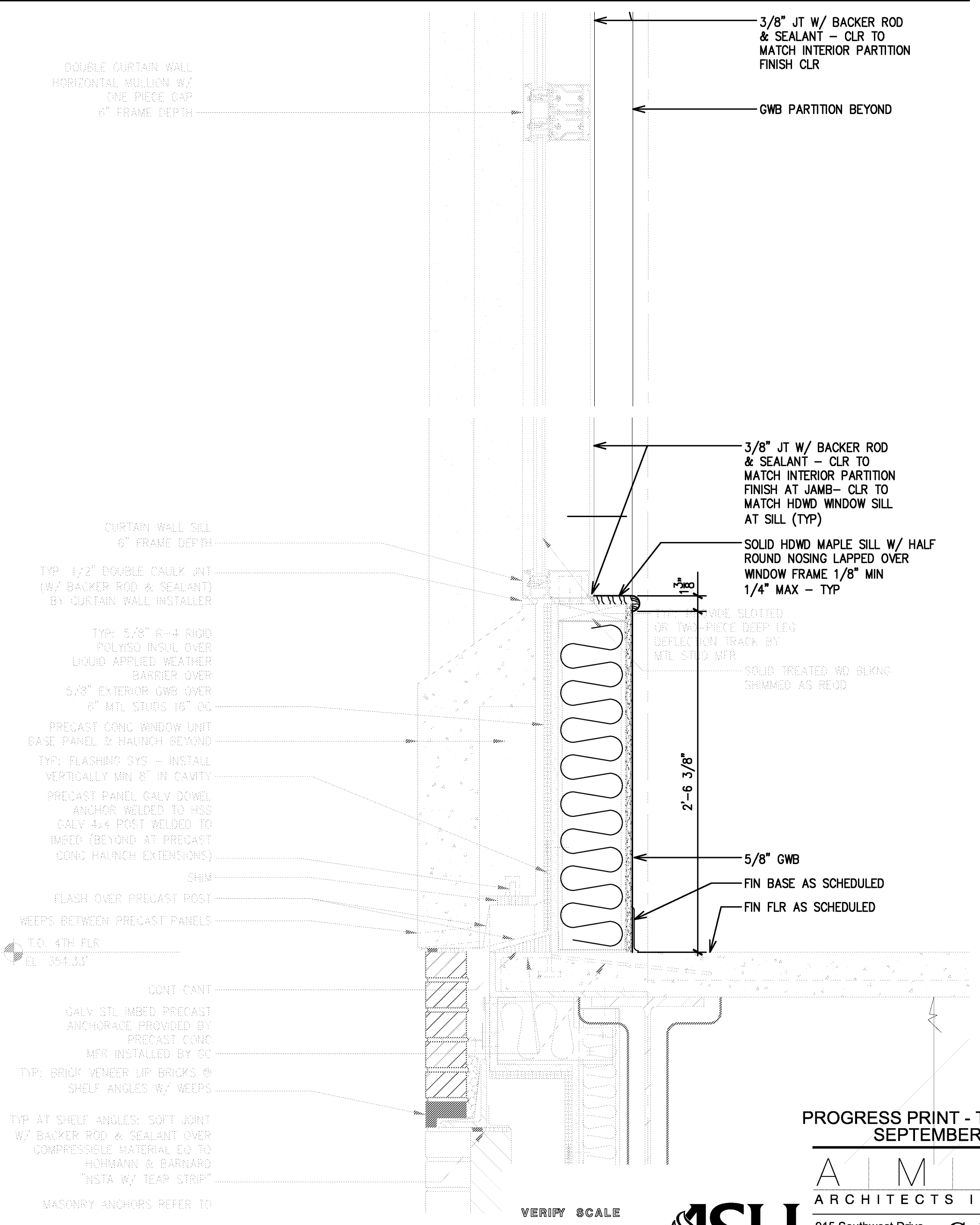
4 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



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



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



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

VERIFY SCALE
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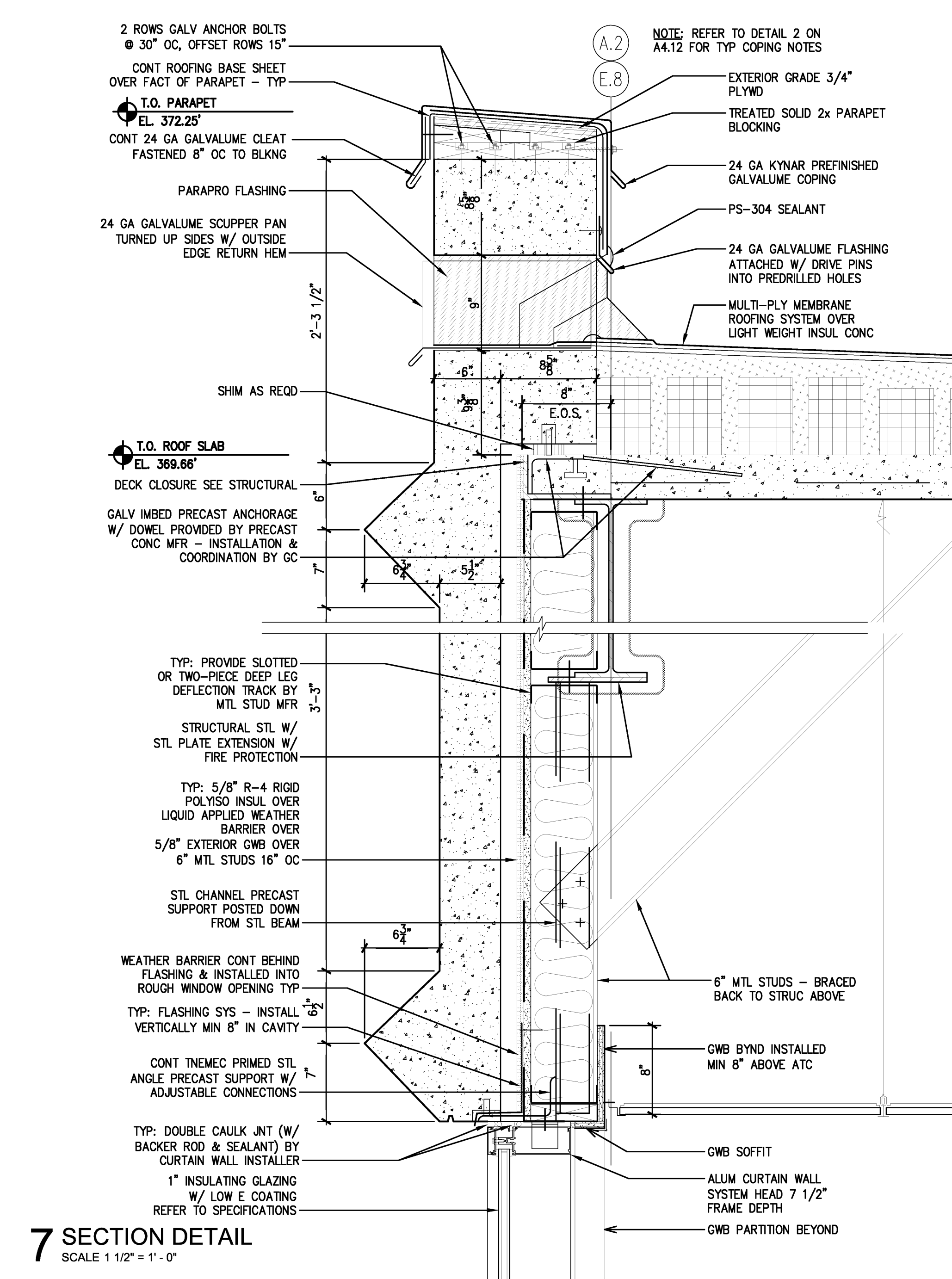
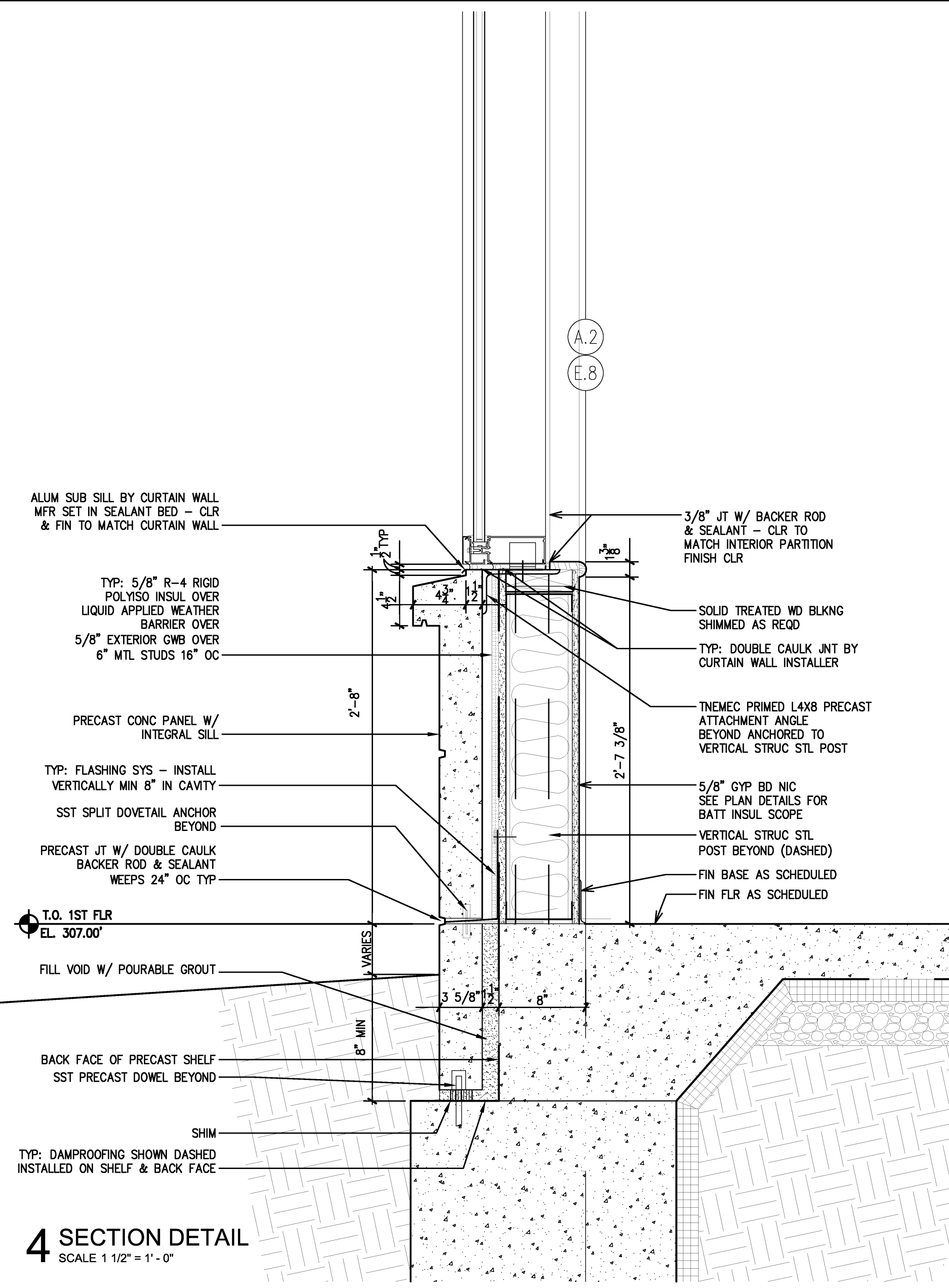
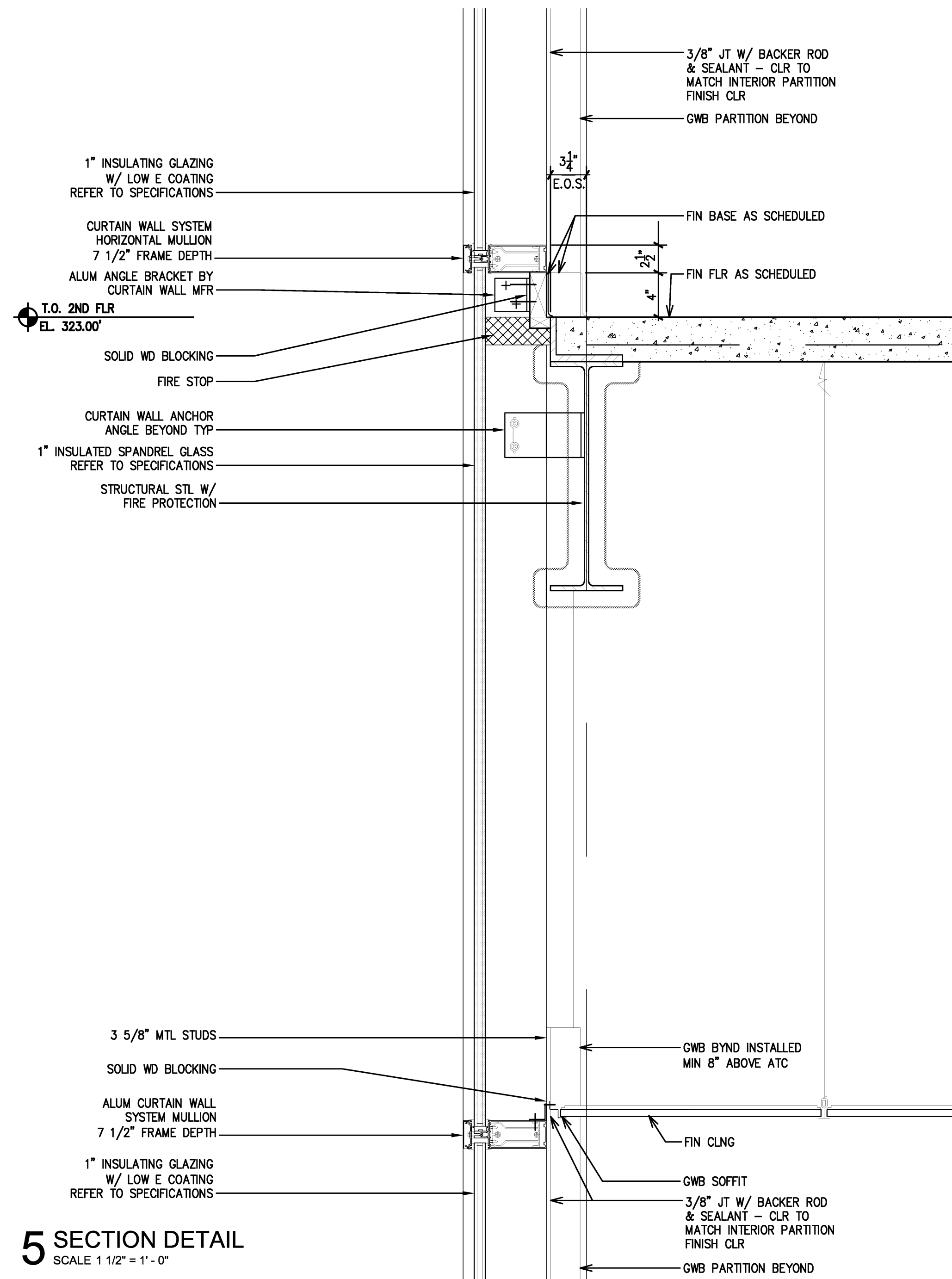
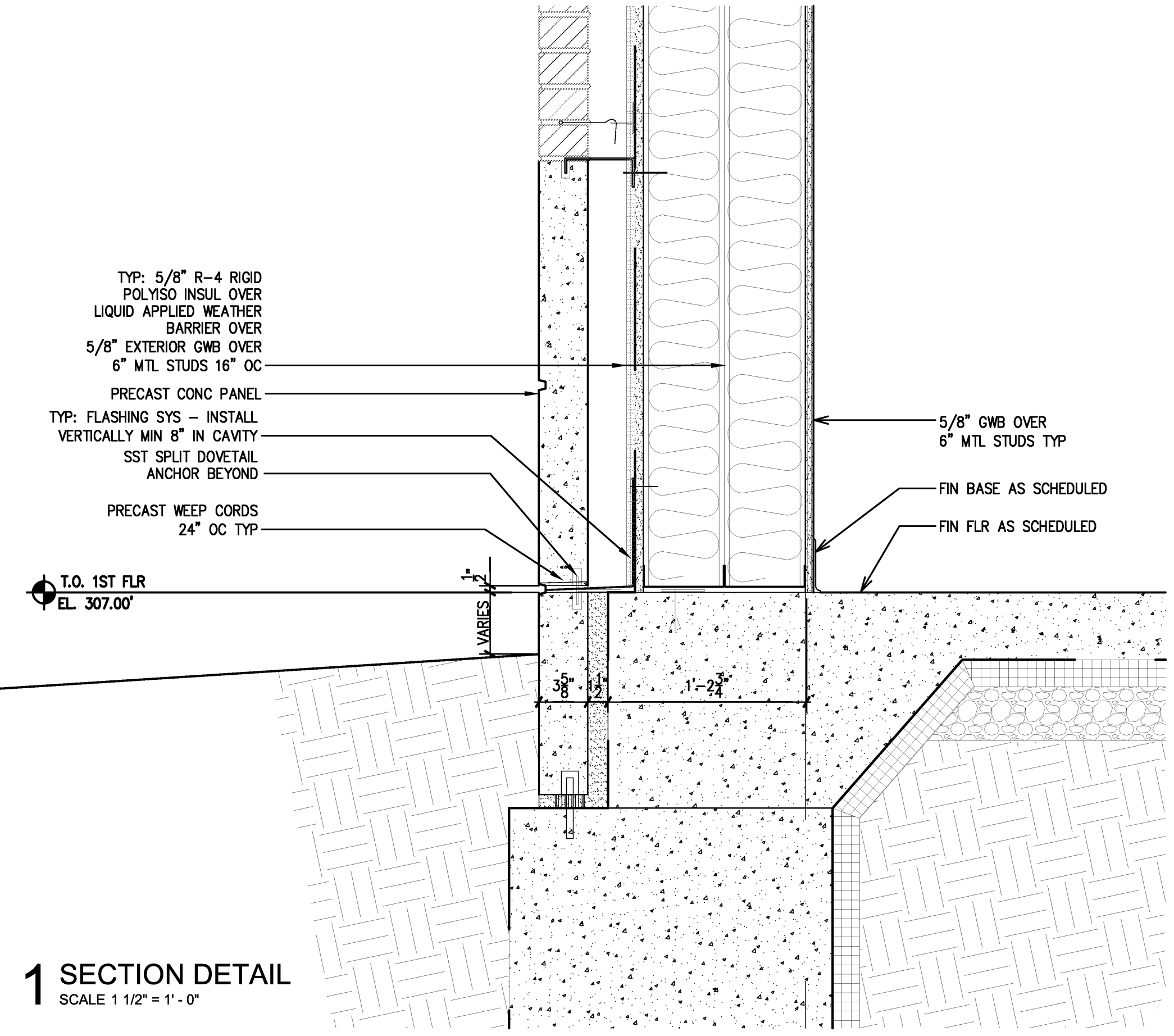
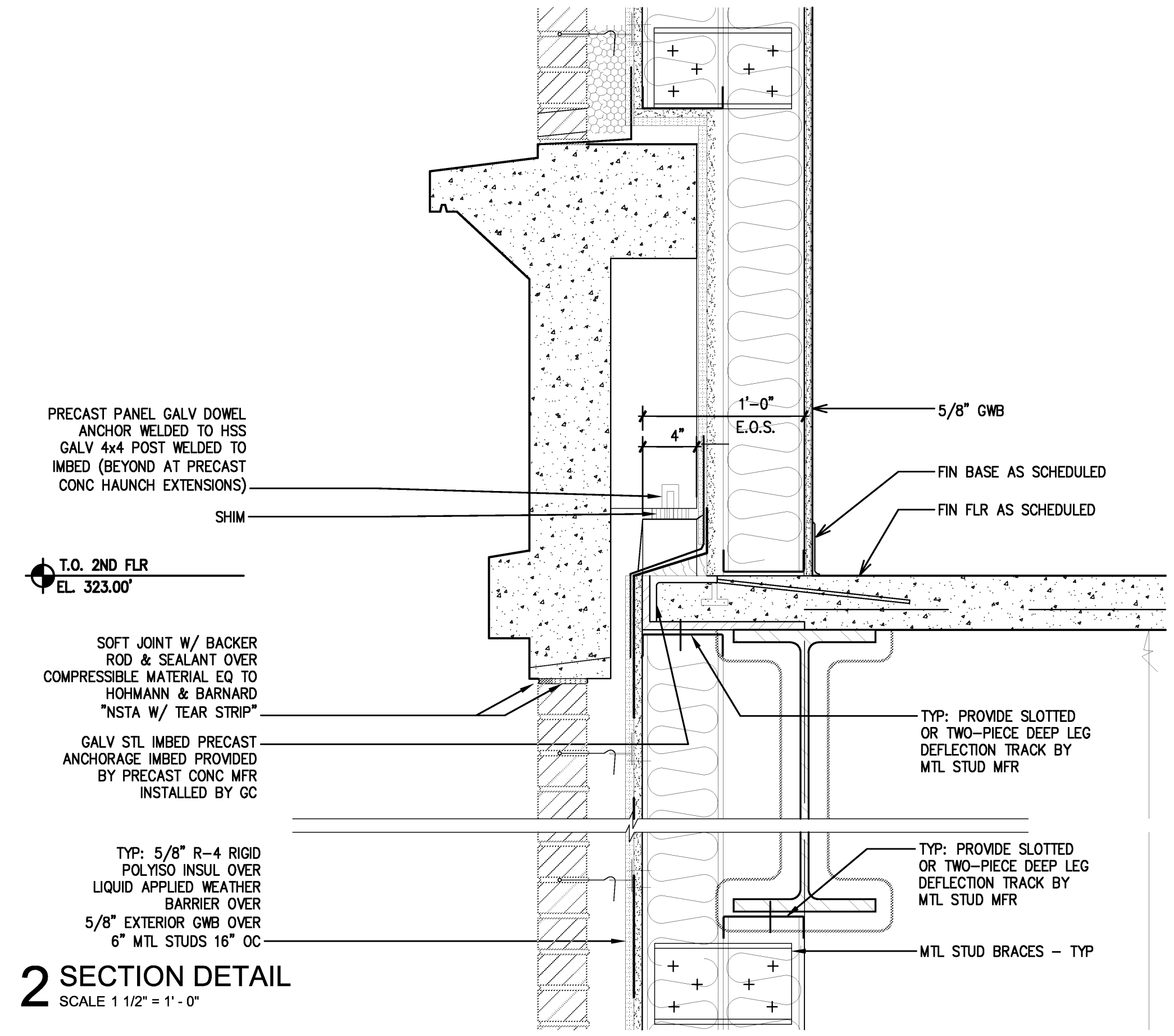
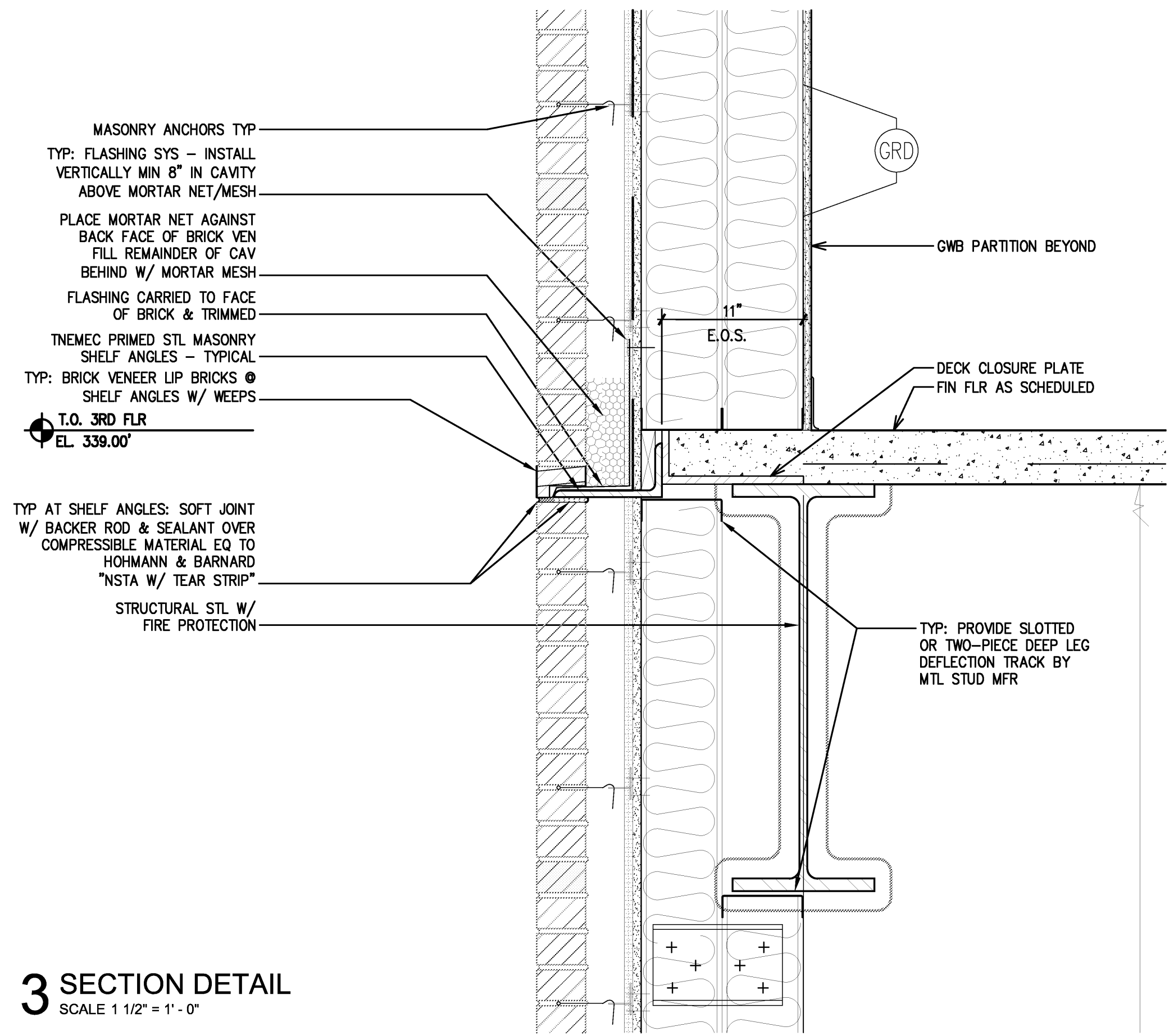
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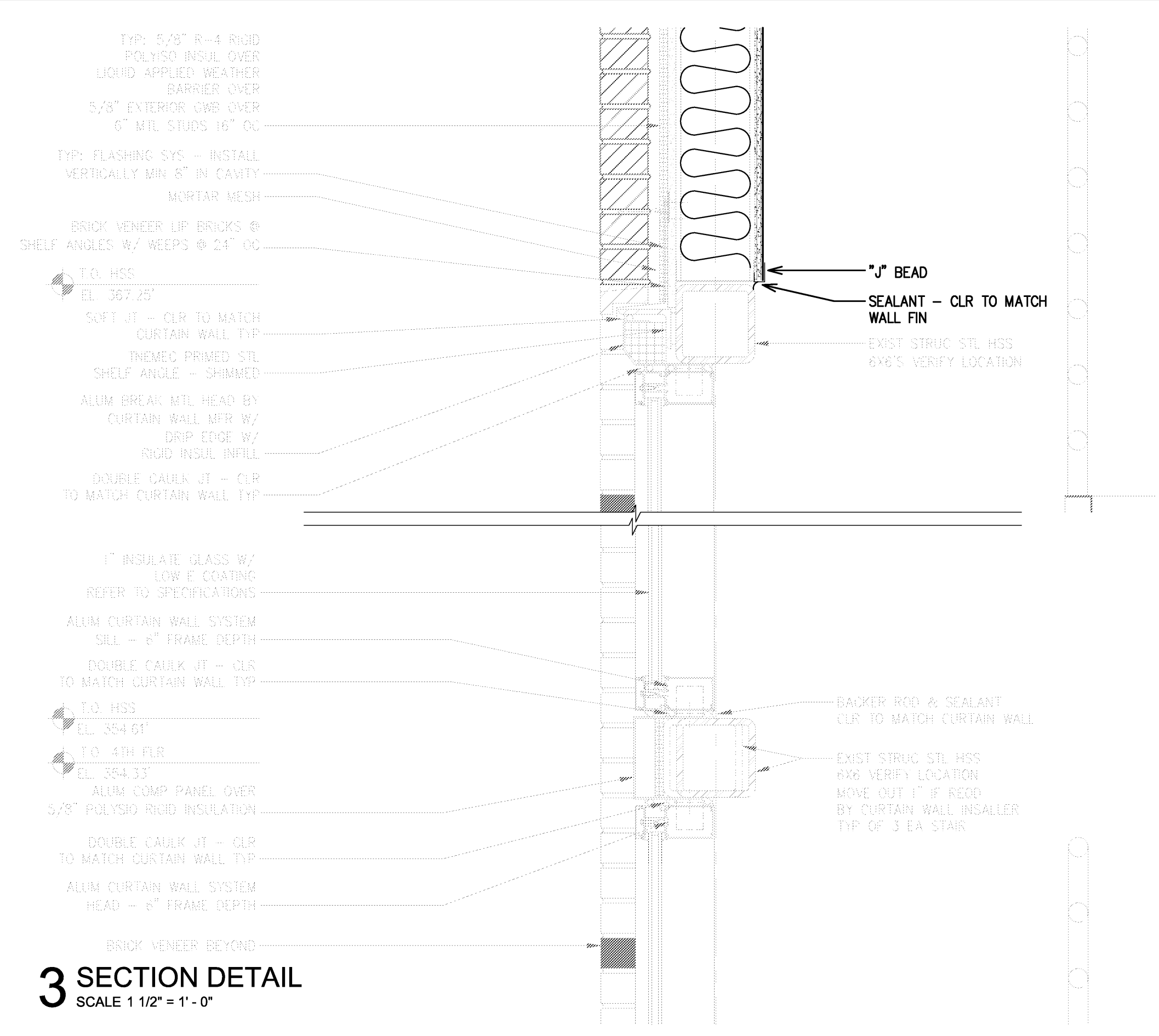
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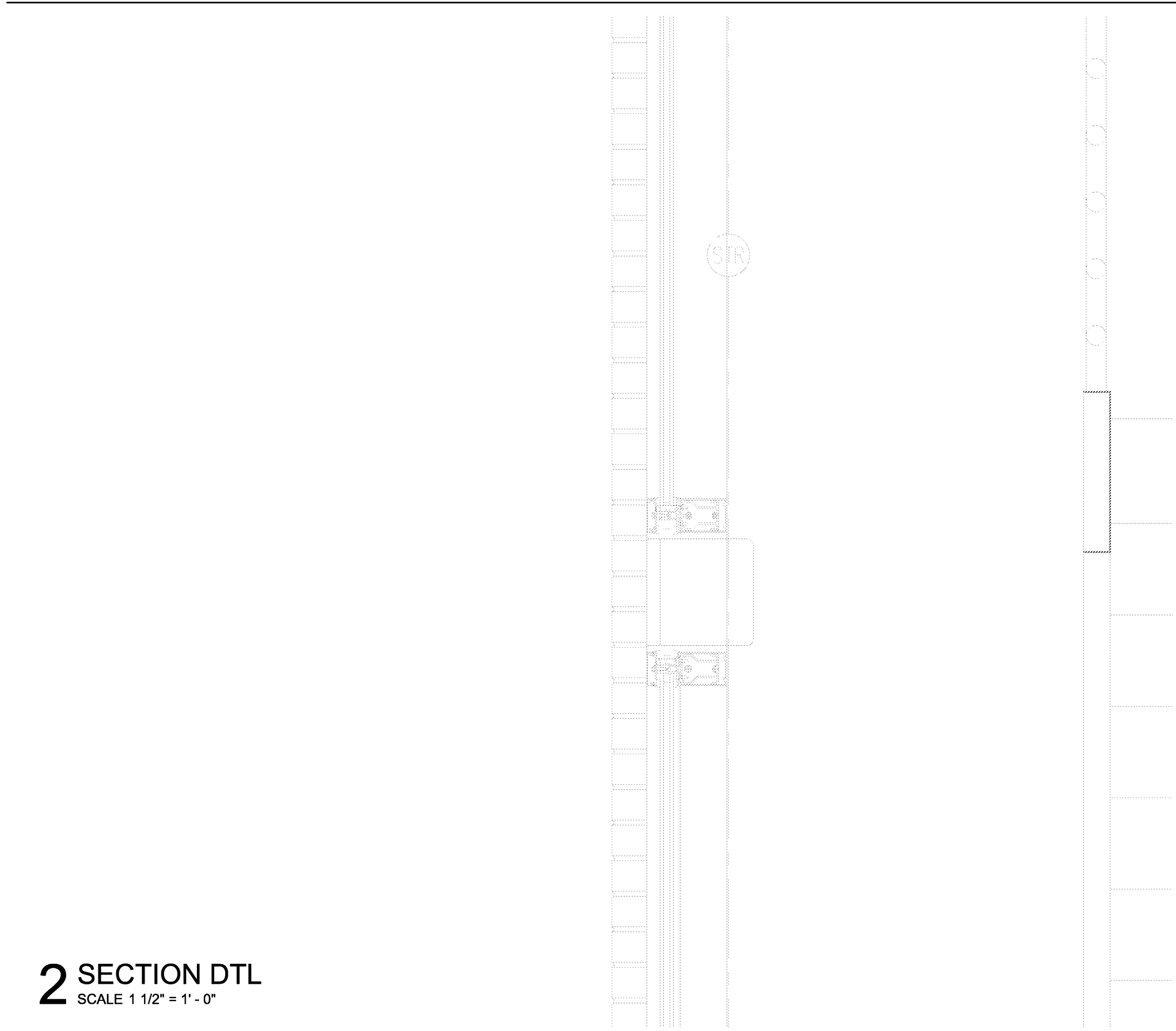
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Location: Jonesboro, AR
Date: October 03, 2013
Title: SECTION DETAILS
Sheet Number: A4.7

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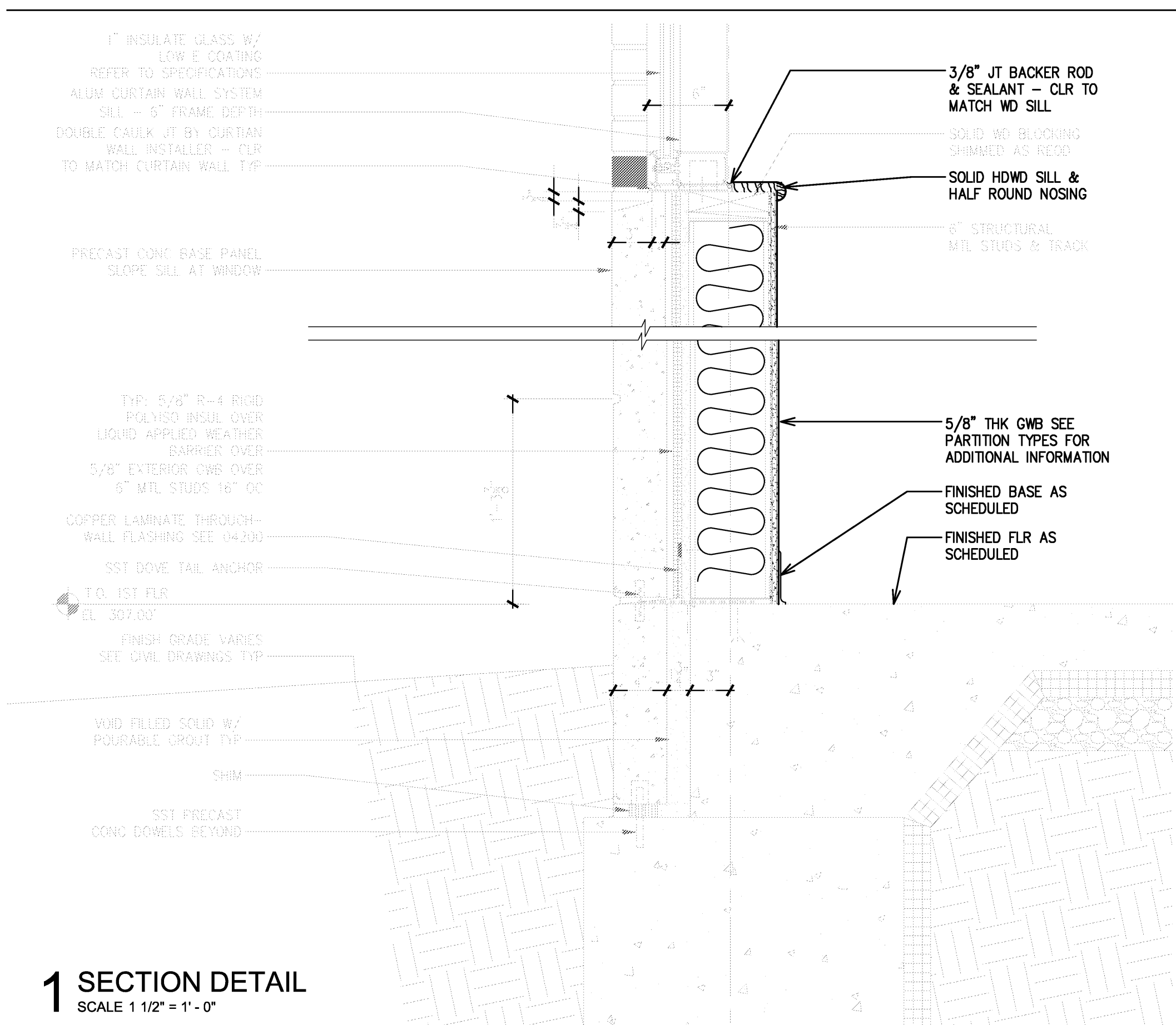




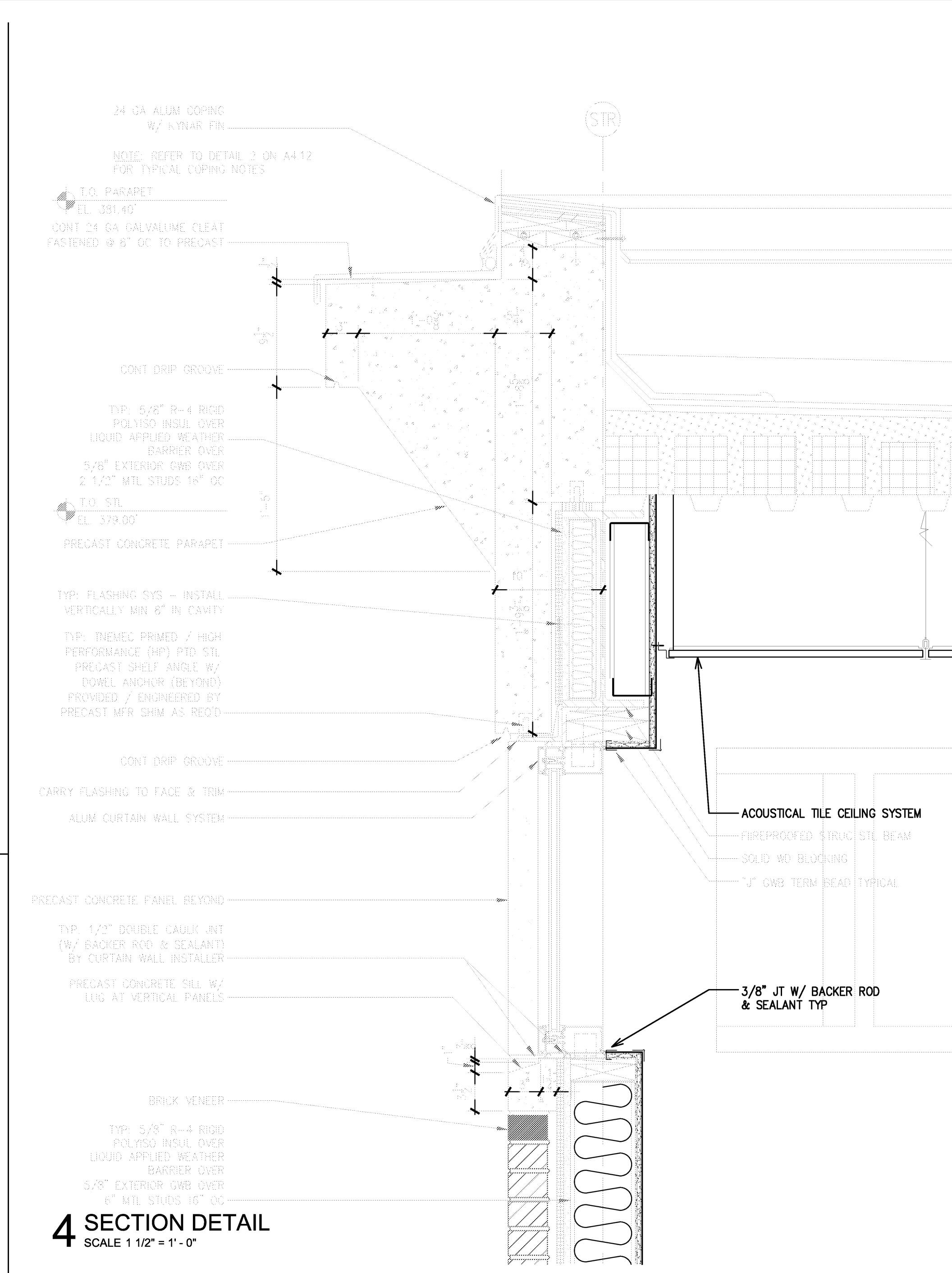
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2 SECTION DTL
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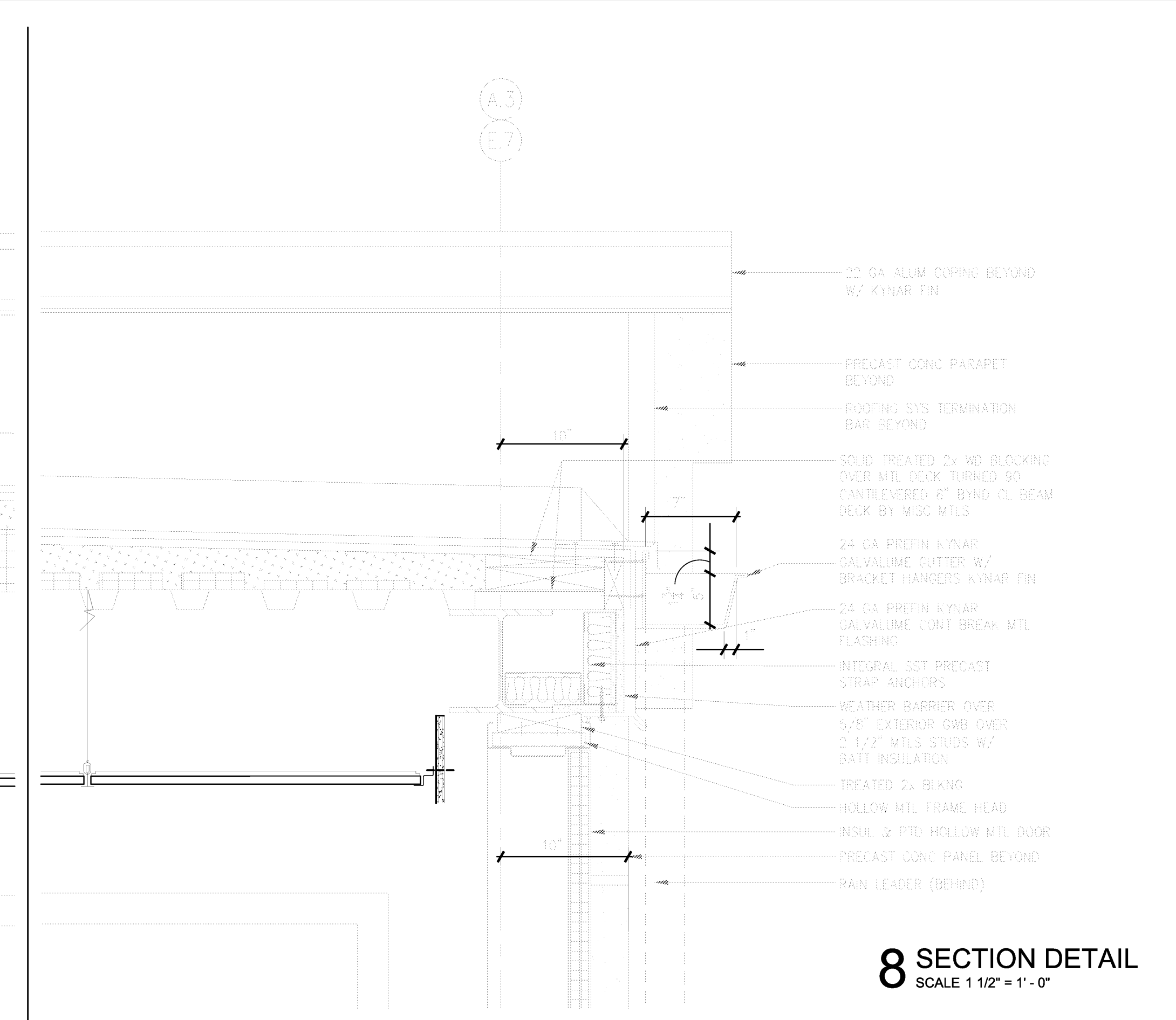
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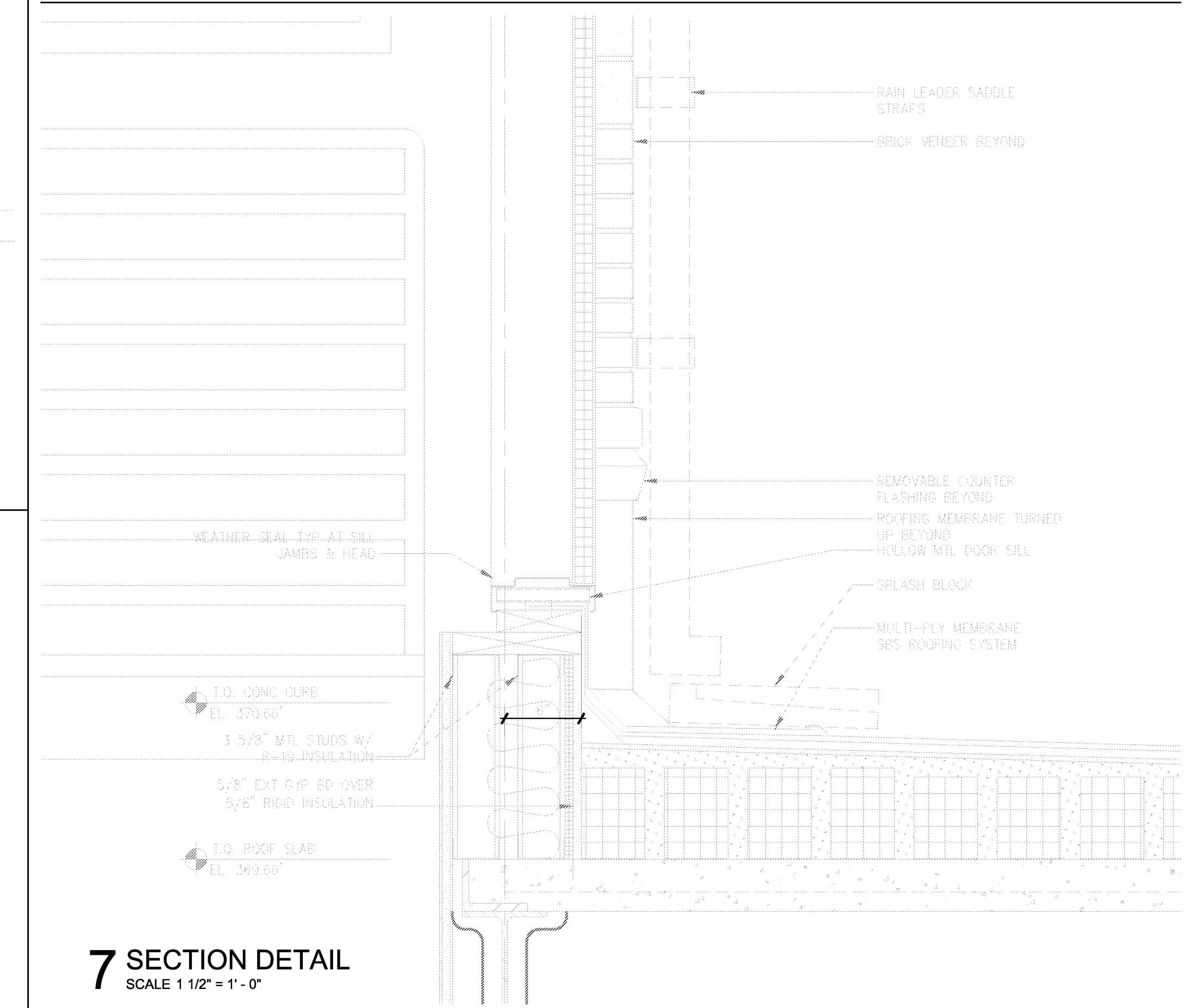
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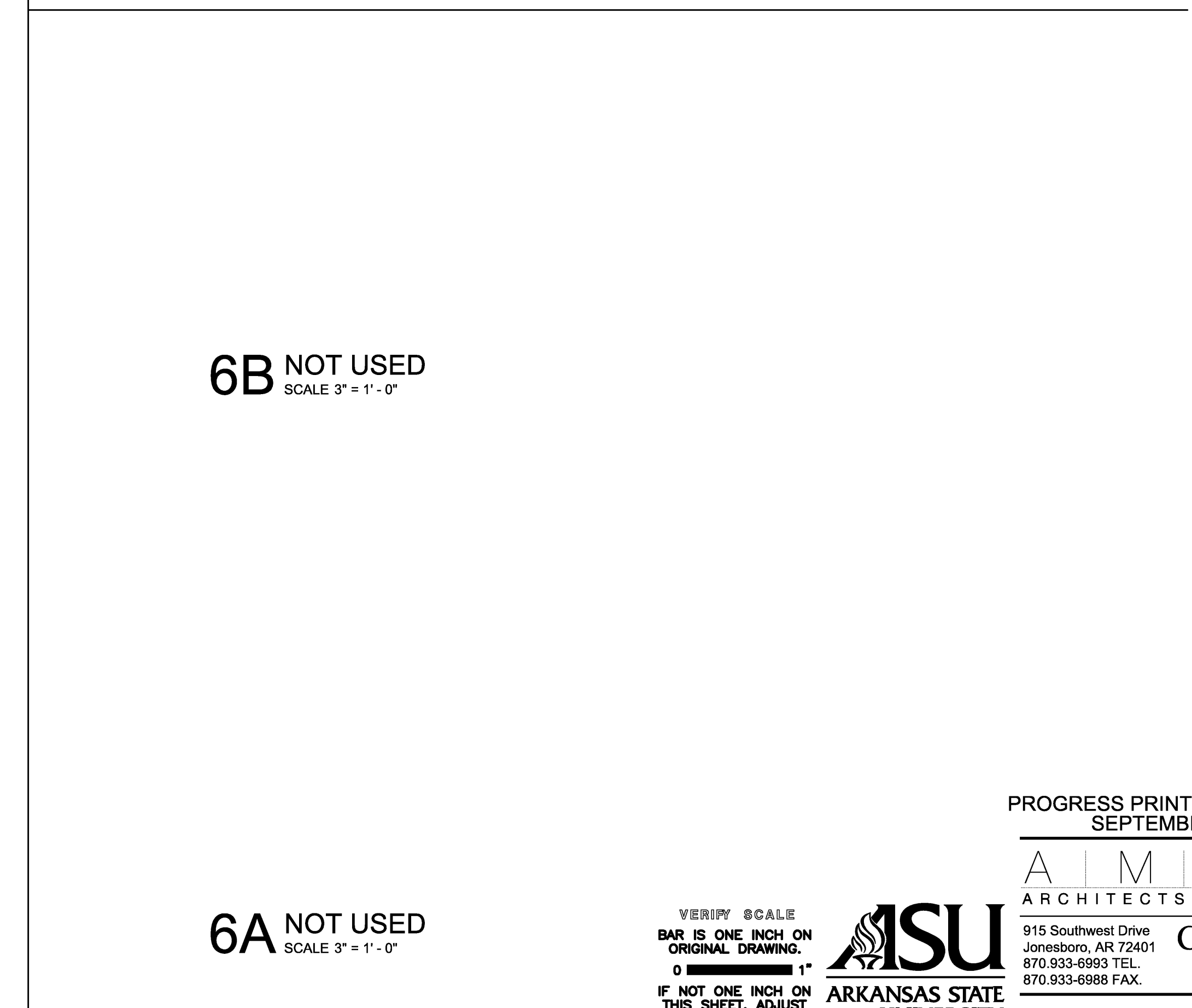
5 NOT USED
SCALE 3" = 1'-0"



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



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



6A NOT USED
SCALE 3" = 1'-0"

6B NOT USED
SCALE 3" = 1'-0"

10 NOT USED
SCALE 3" = 1'-0"

9 NOT USED
SCALE 3" = 1'-0"

6A NOT USED
SCALE 3" = 1'-0"

6B NOT USED
SCALE 3" = 1'-0"

5 NOT USED
SCALE 3" = 1'-0"

4 NOT USED
SCALE 3" = 1'-0"

3 NOT USED
SCALE 3" = 1'-0"

2 NOT USED
SCALE 3" = 1'-0"

1 NOT USED
SCALE 3" = 1'-0"

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 LOCATION: JONESBORO, AR
 DATE: OCTOBER 03, 2013
 TITLE: SECTION DETAILS
 SHEET NUMBER: A4.8

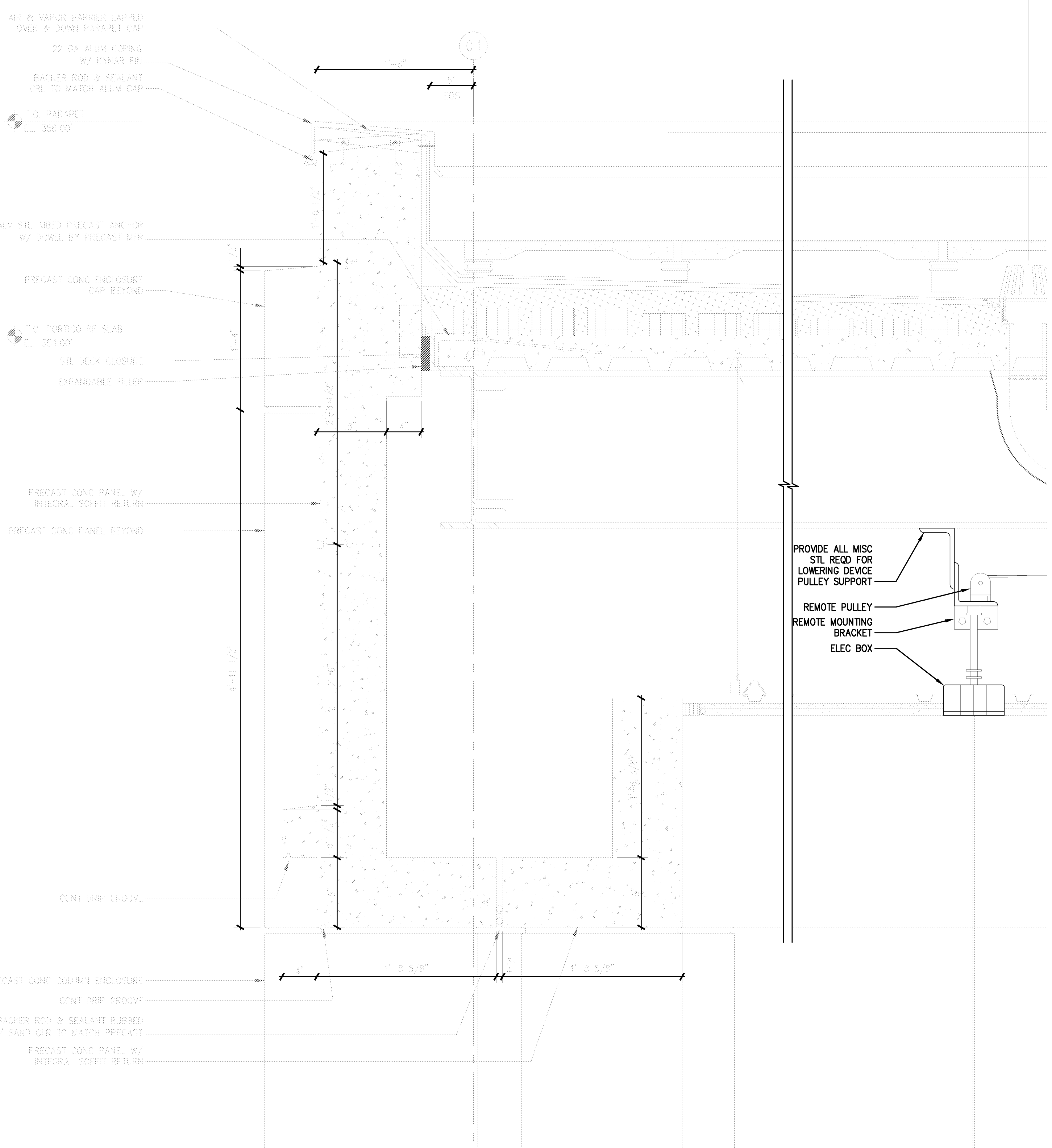
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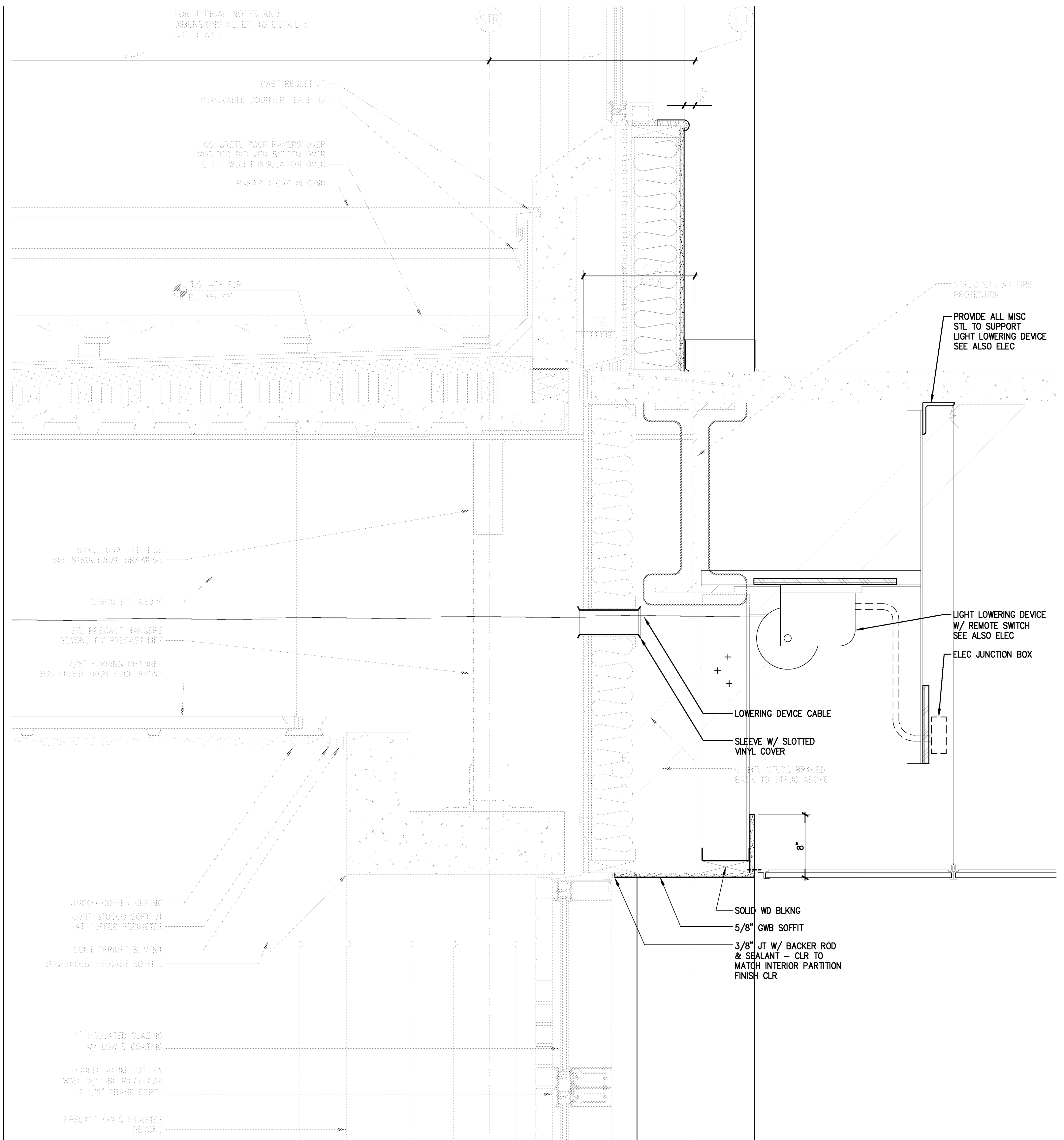
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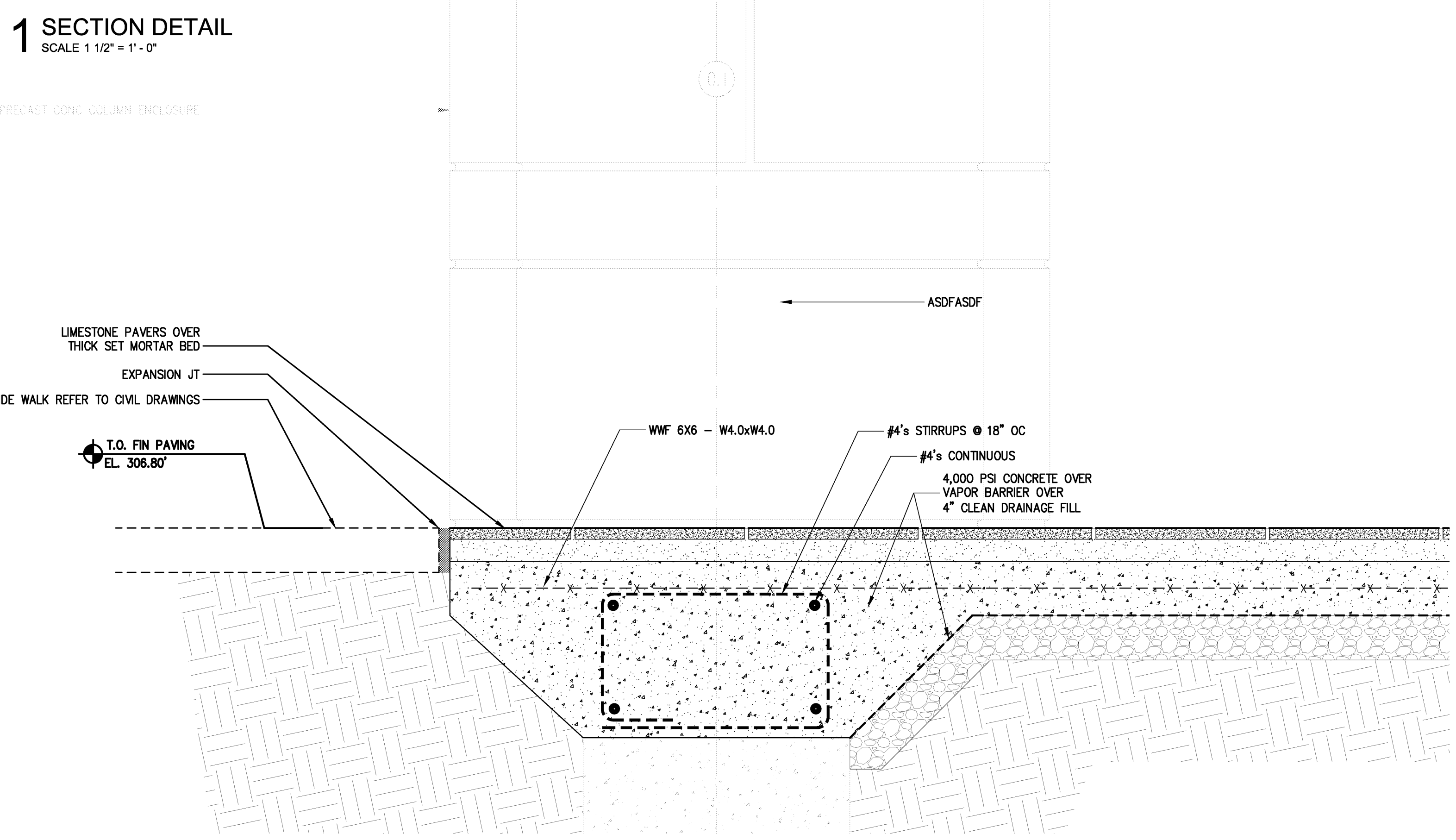
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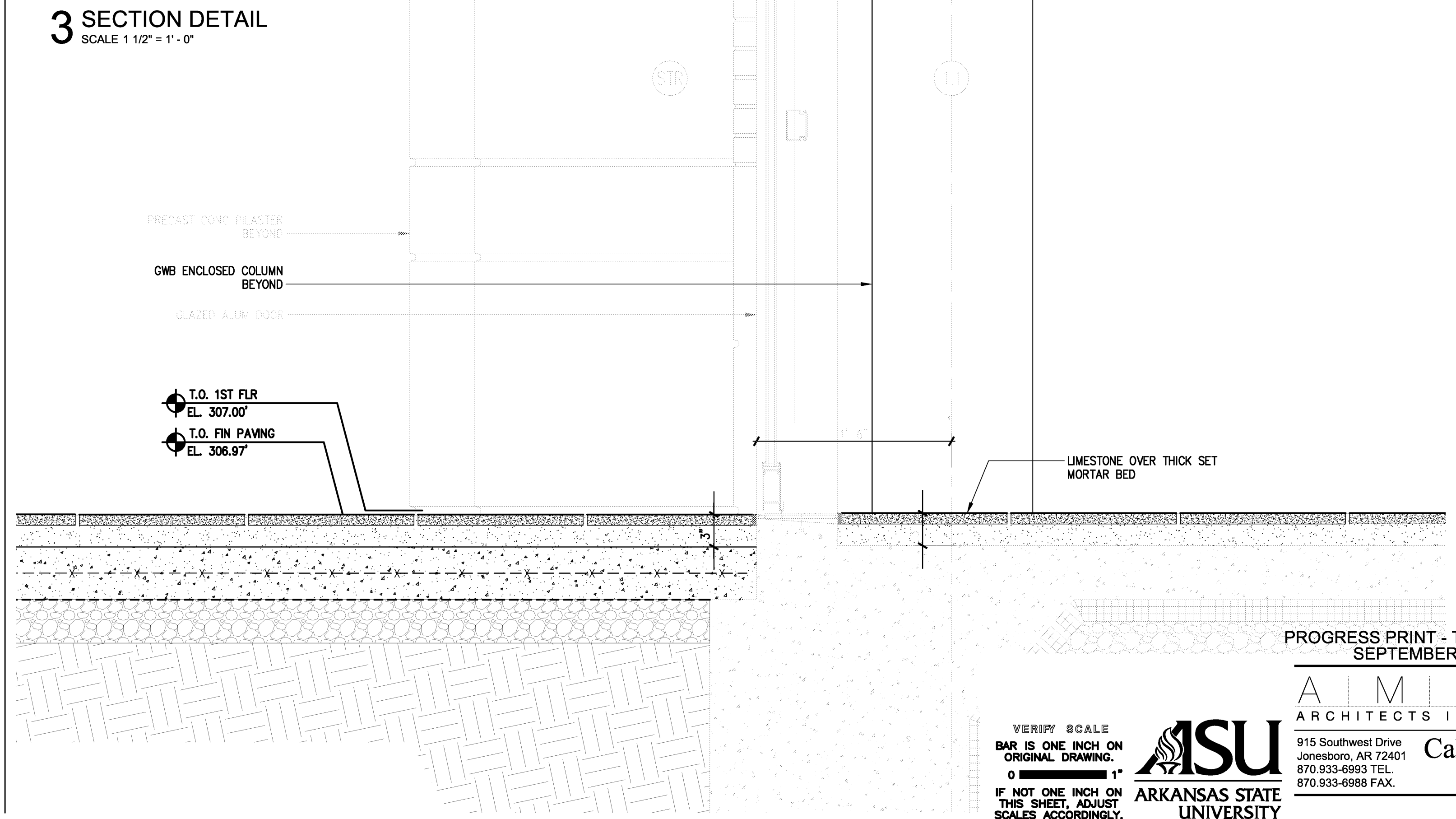
2 SECTION DETAIL
SCALE 1 1/2" = 1'-0"



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



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



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

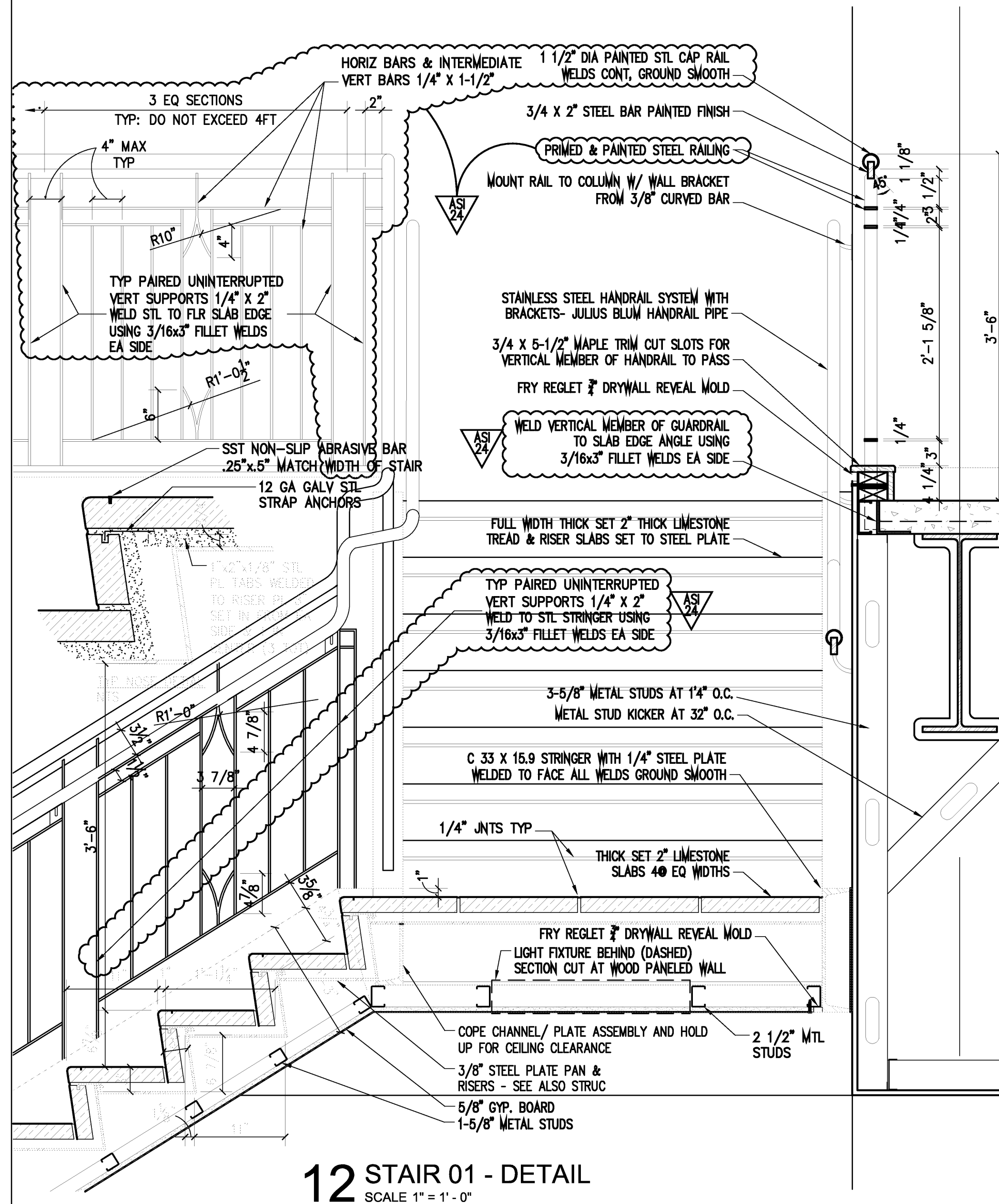
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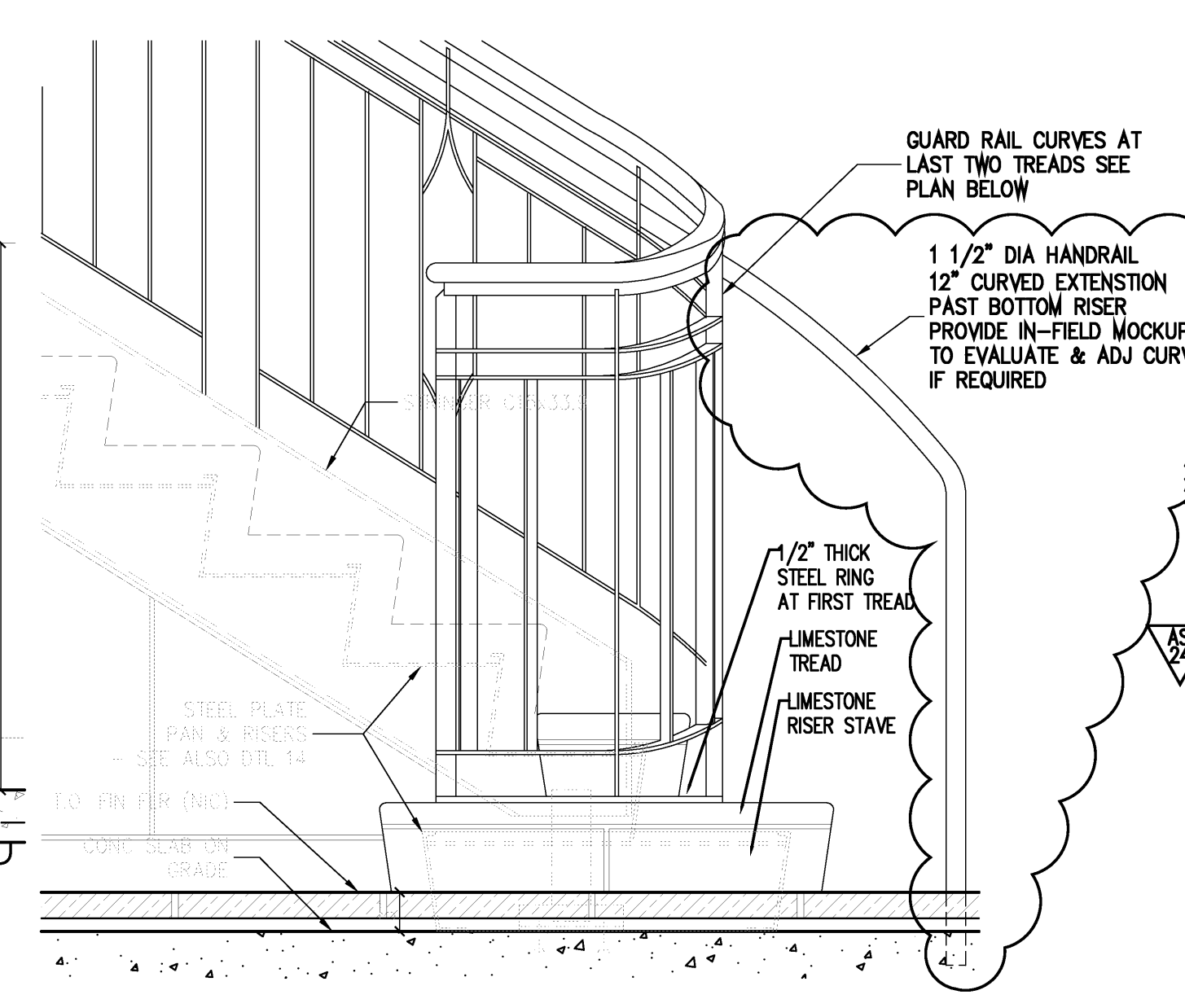
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Title: SECTION DETAILS
Sheet Number: **A4.9**



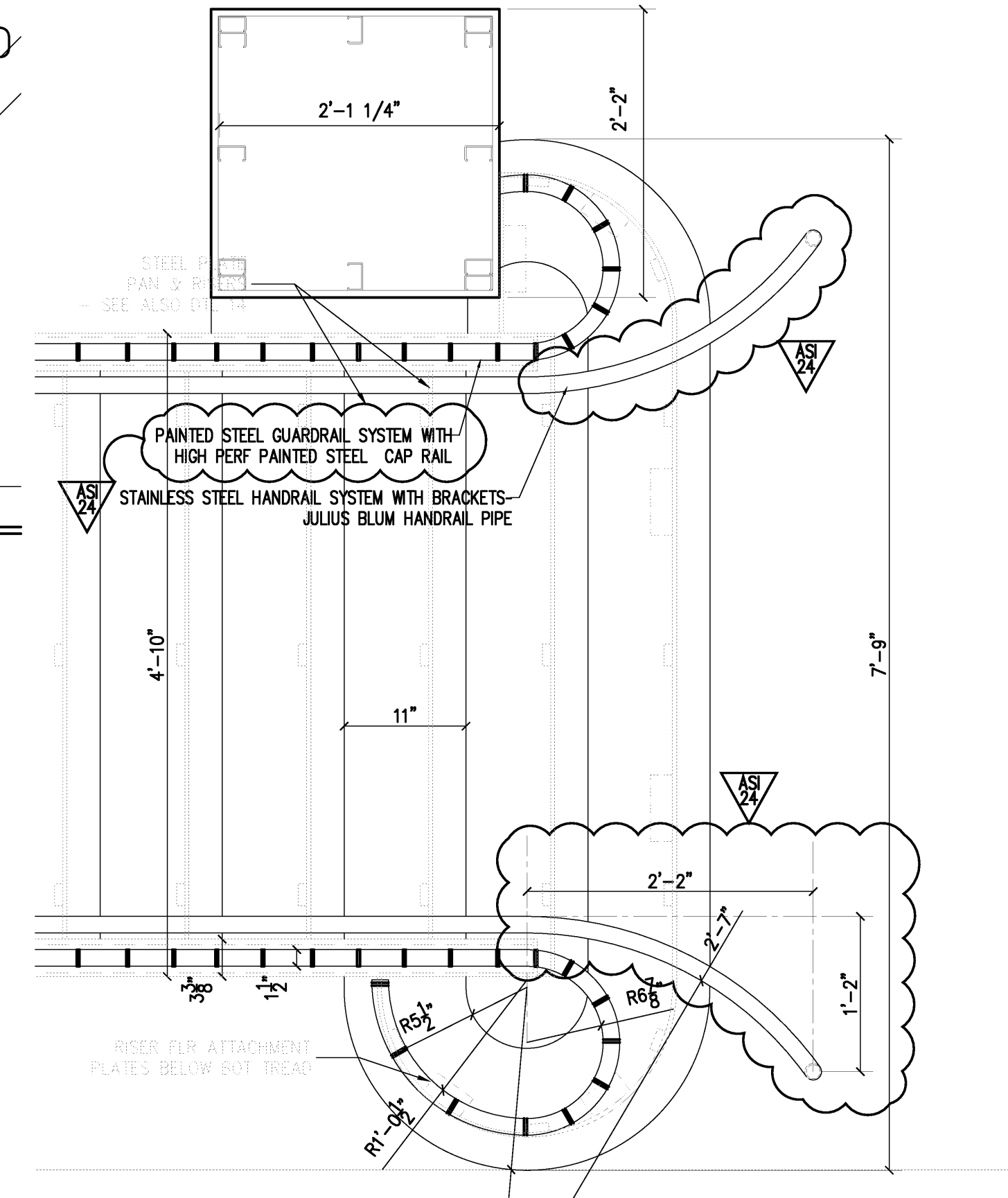
12 STAIR 01 - DETAIL
SCALE 1" = 1'-0"



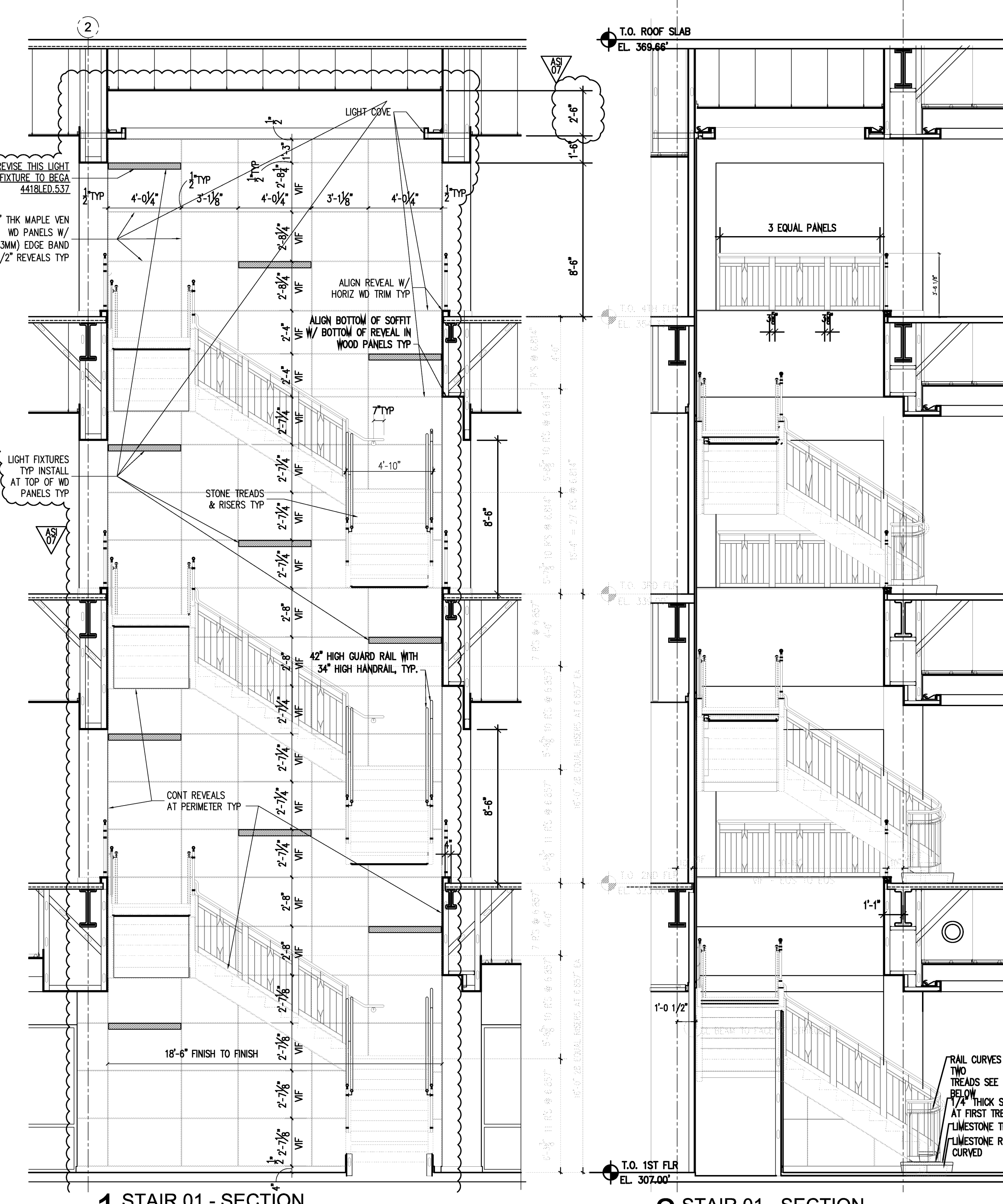
11 STAIR 01 - ELEVATION DETAIL
SCALE 1" = 1'-0"



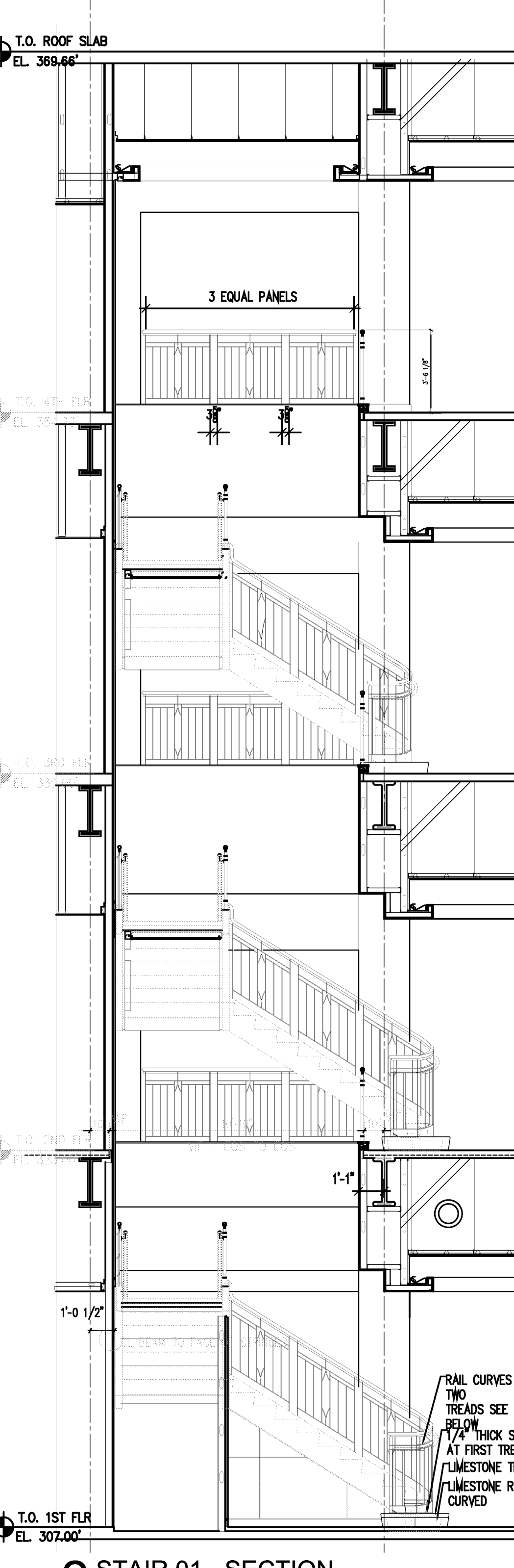
9 STAIR 01 - DETAIL
SCALE 1" = 1'-0"



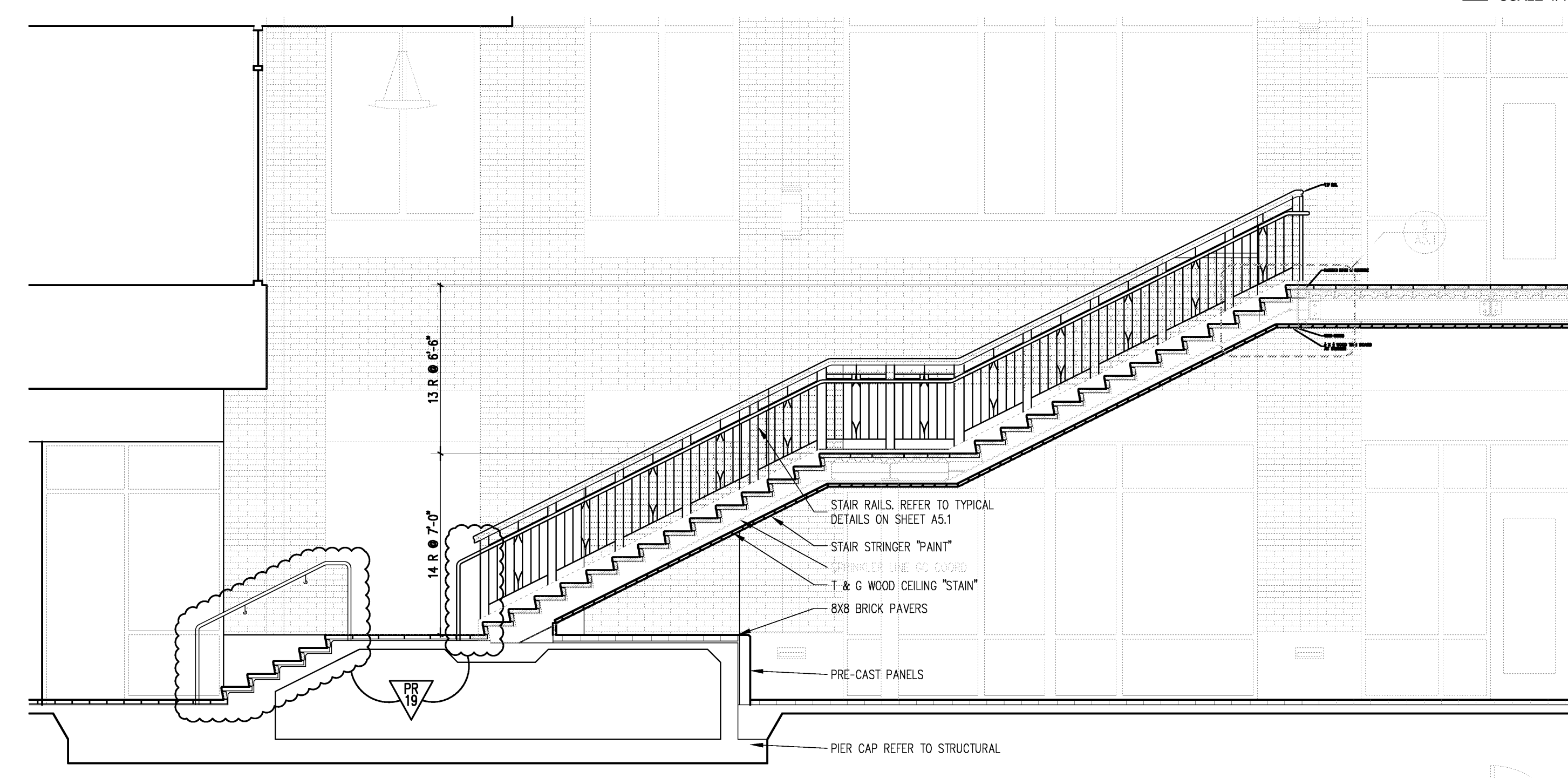
10 STAIR 01 PLAN - DETAIL
SCALE 1" = 1'-0"



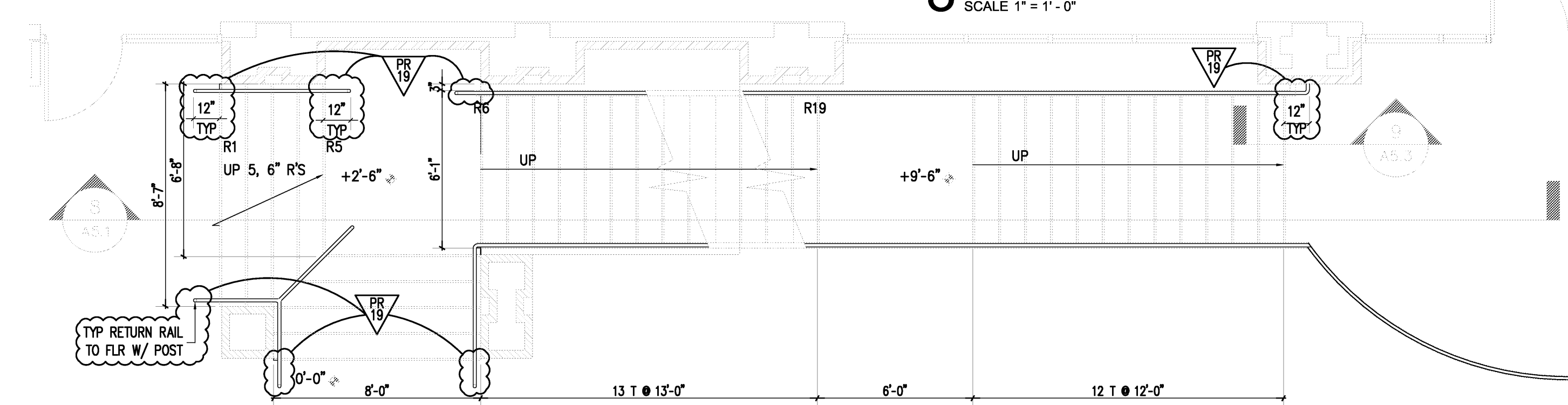
1 STAIR 01 - SECTION
SCALE 1/4" = 1'-0"



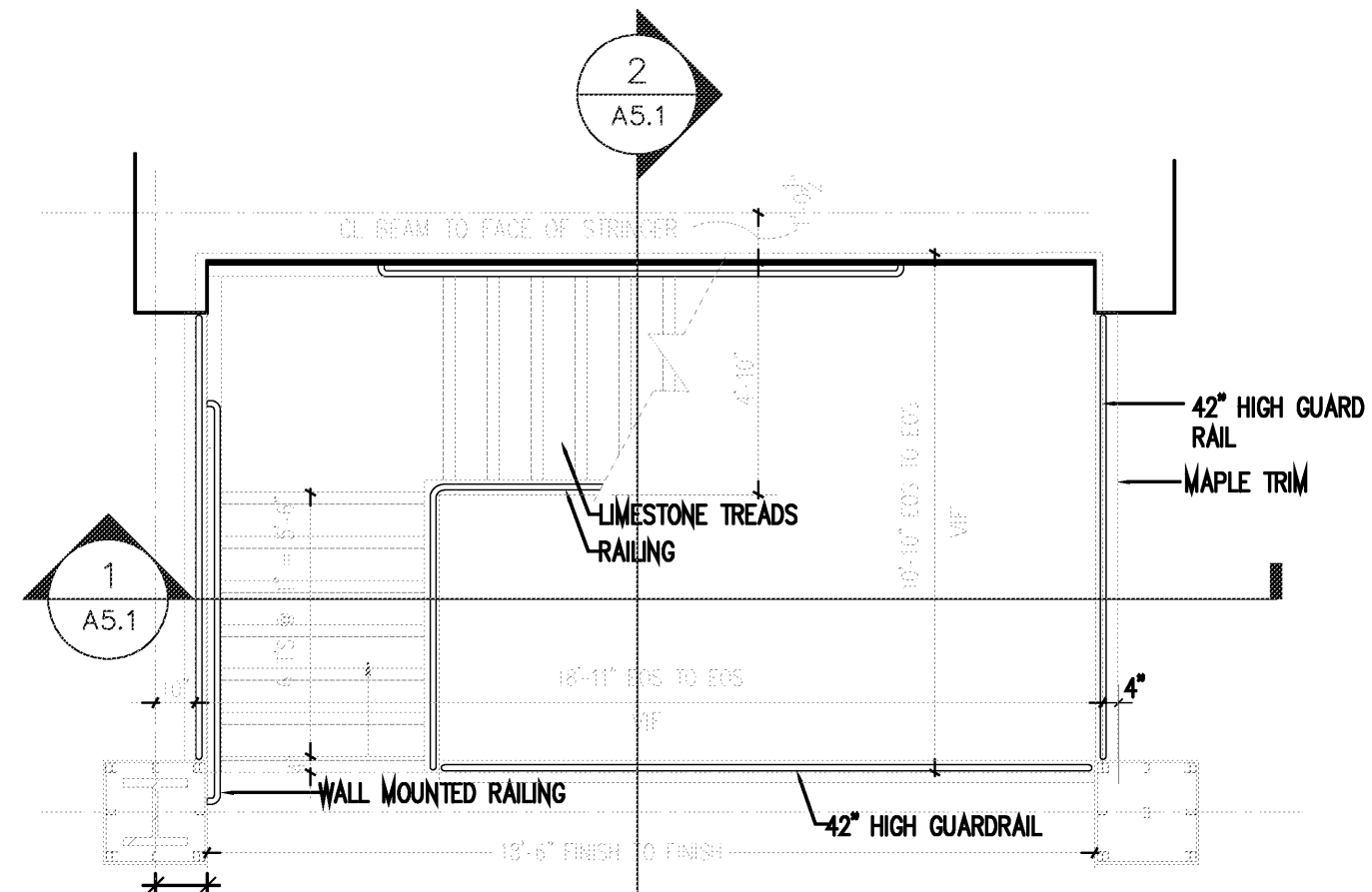
2 STAIR 01 - SECTION
SCALE 1/4" = 1'-0"



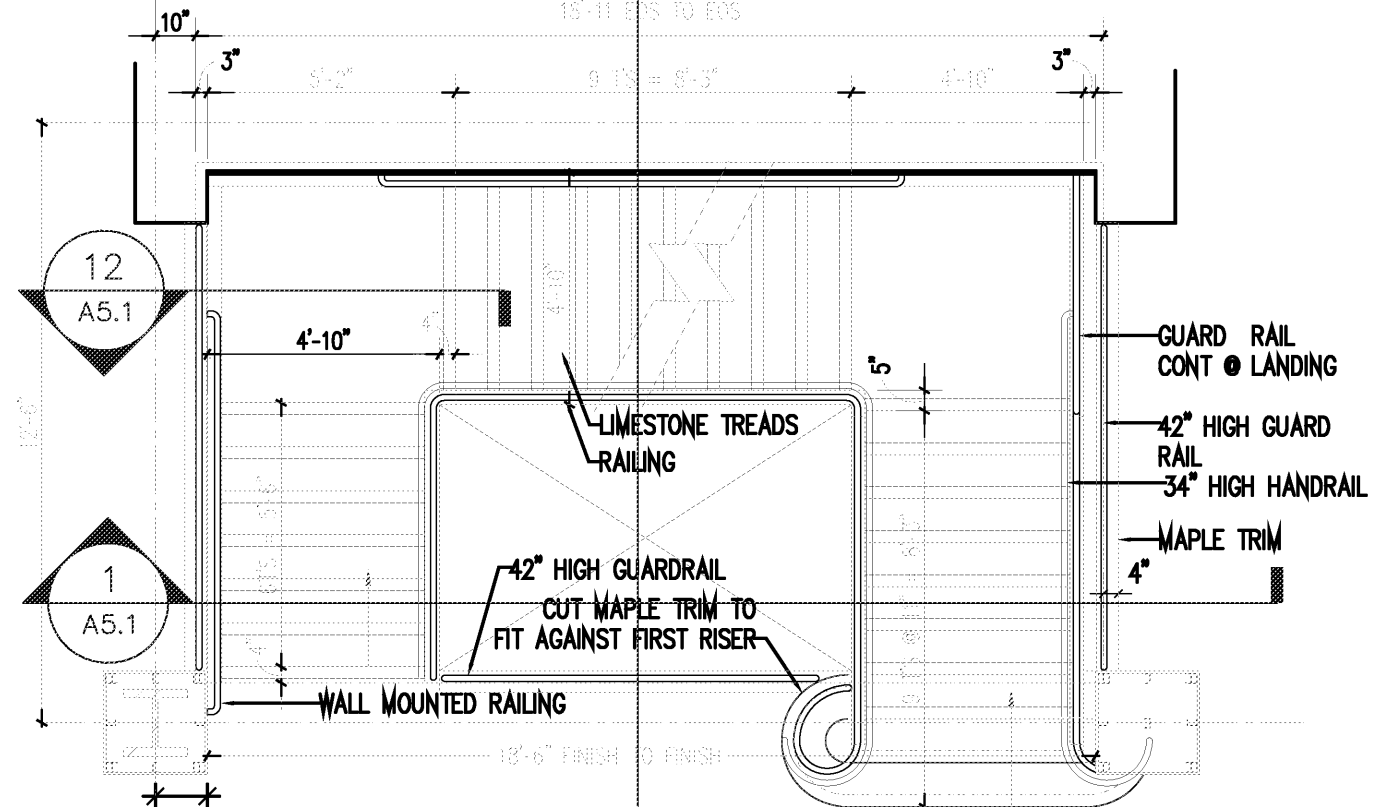
8 DETAIL AT COVE LIGHT FIXTURE
SCALE 1" = 1'-0"



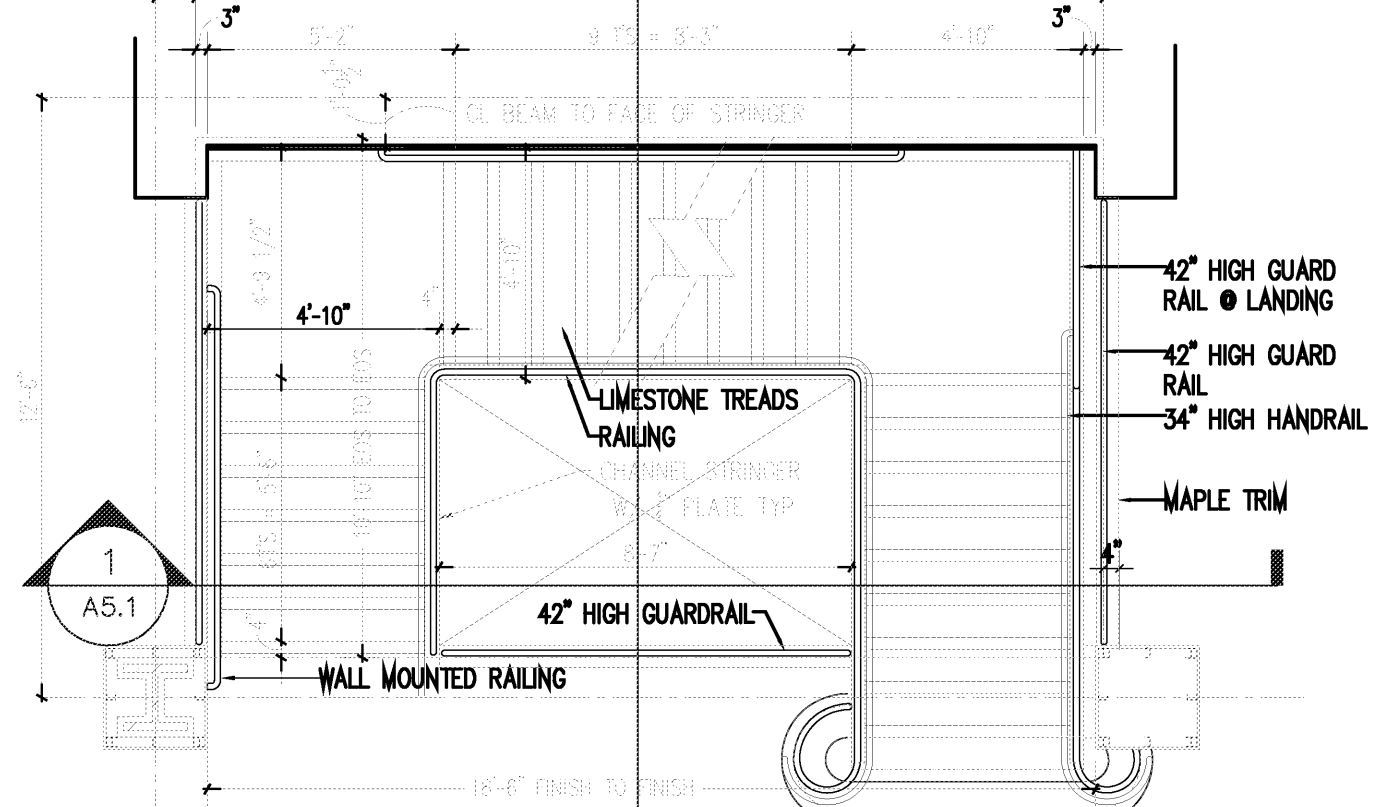
7 DETAIL AT COVE LIGHT FIXTURE
SCALE 1" = 1'-0"



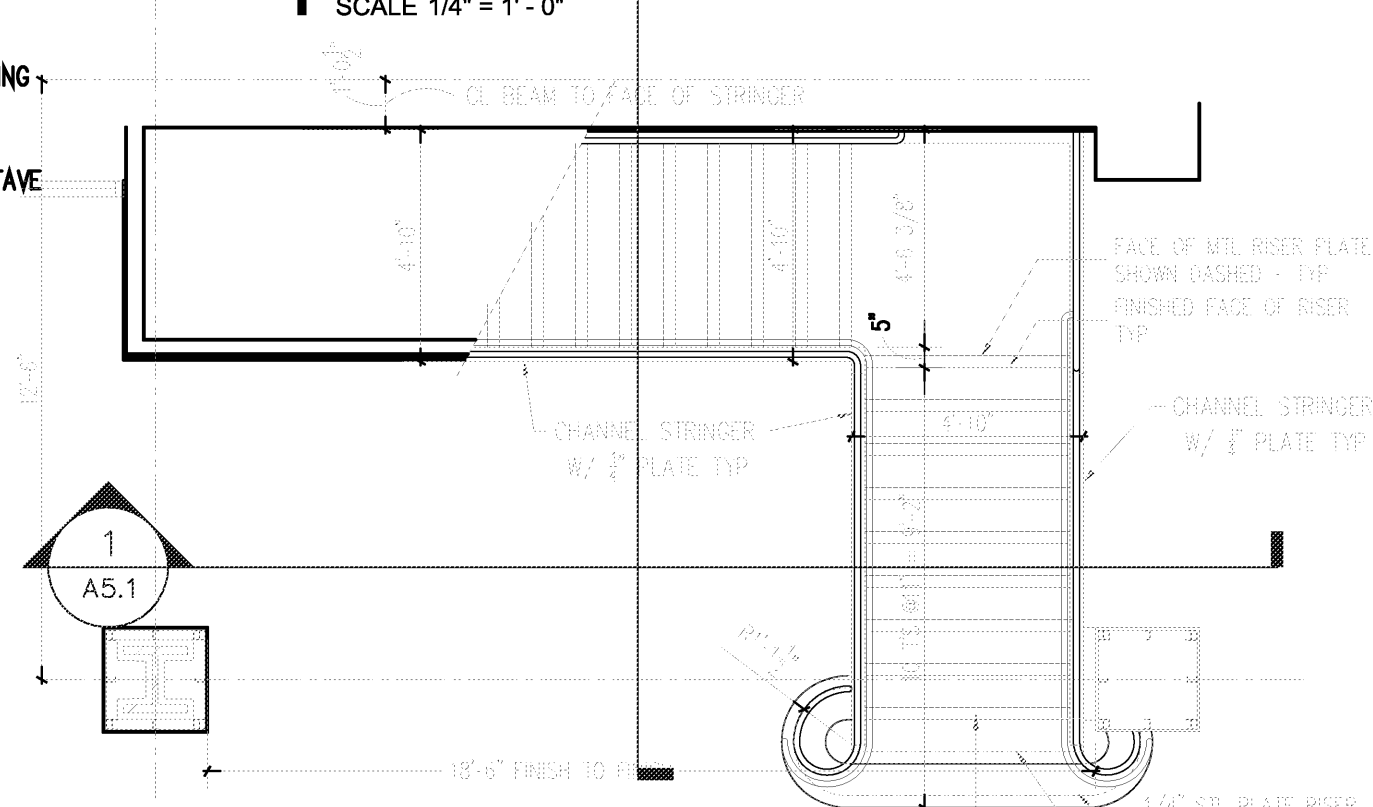
6 STAIR 01 PLAN - 4TH FLR
SCALE 1/4" = 1'-0"



5 STAIR 01 PLAN - 3RD FLR UP
SCALE 1/4" = 1'-0"



4 STAIR 01 PLAN - 2ND FLR
SCALE 1/4" = 1'-0"



3 STAIR 01 PLAN - 1ST FLR UP
SCALE 1/4" = 1'-0"

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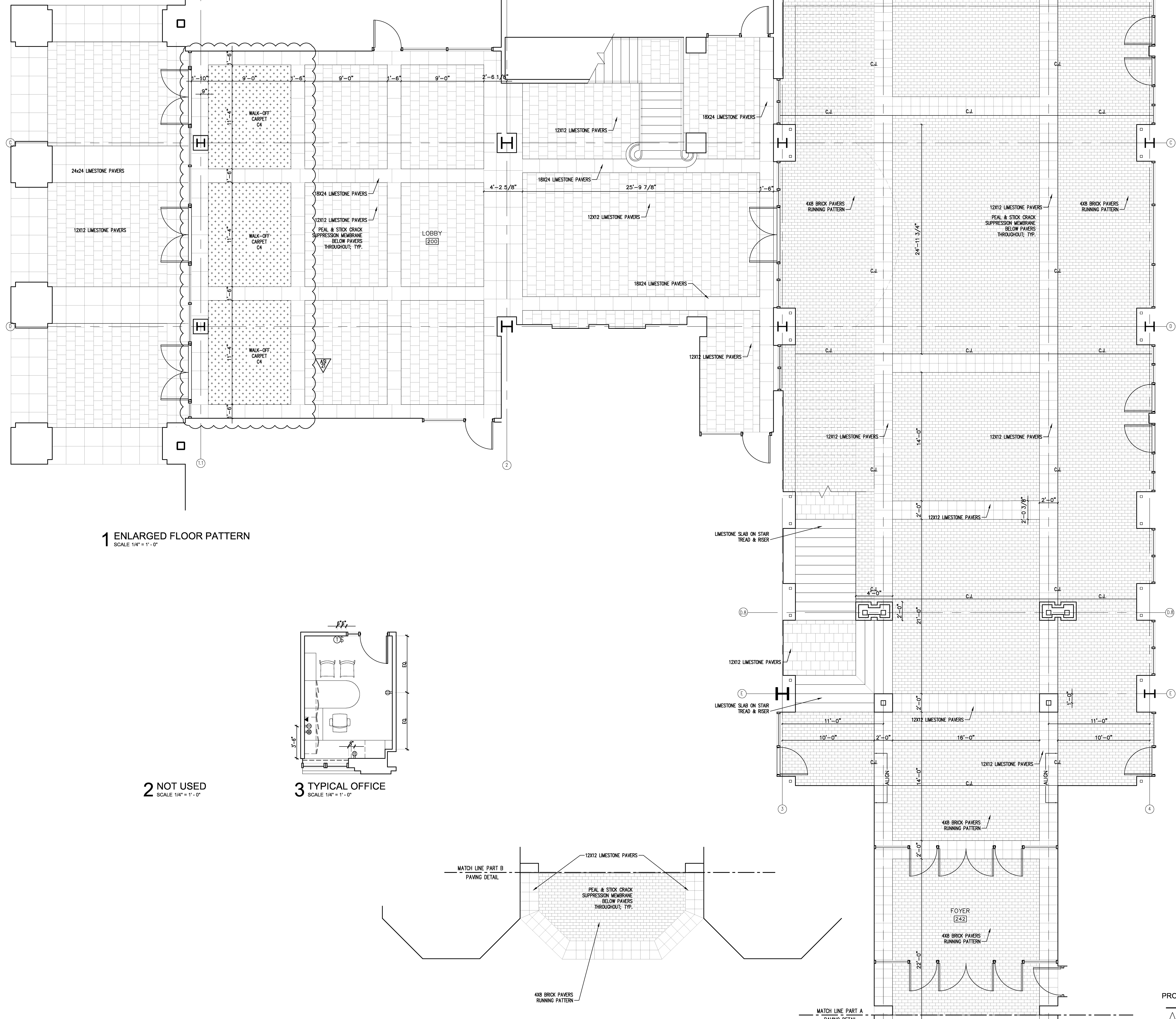


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
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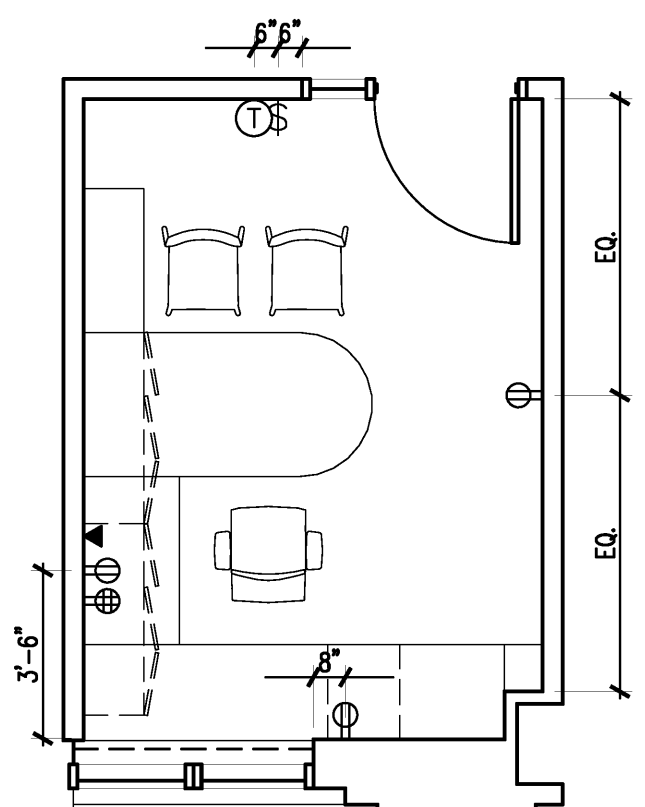
Title: STAIR 01 & 05 - DETAILS

Sheet Number: **A5.1**

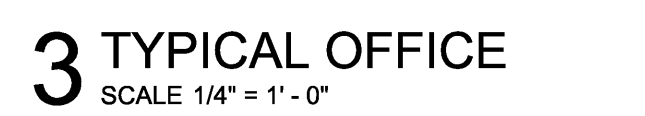
Cahoon Steiling Studio



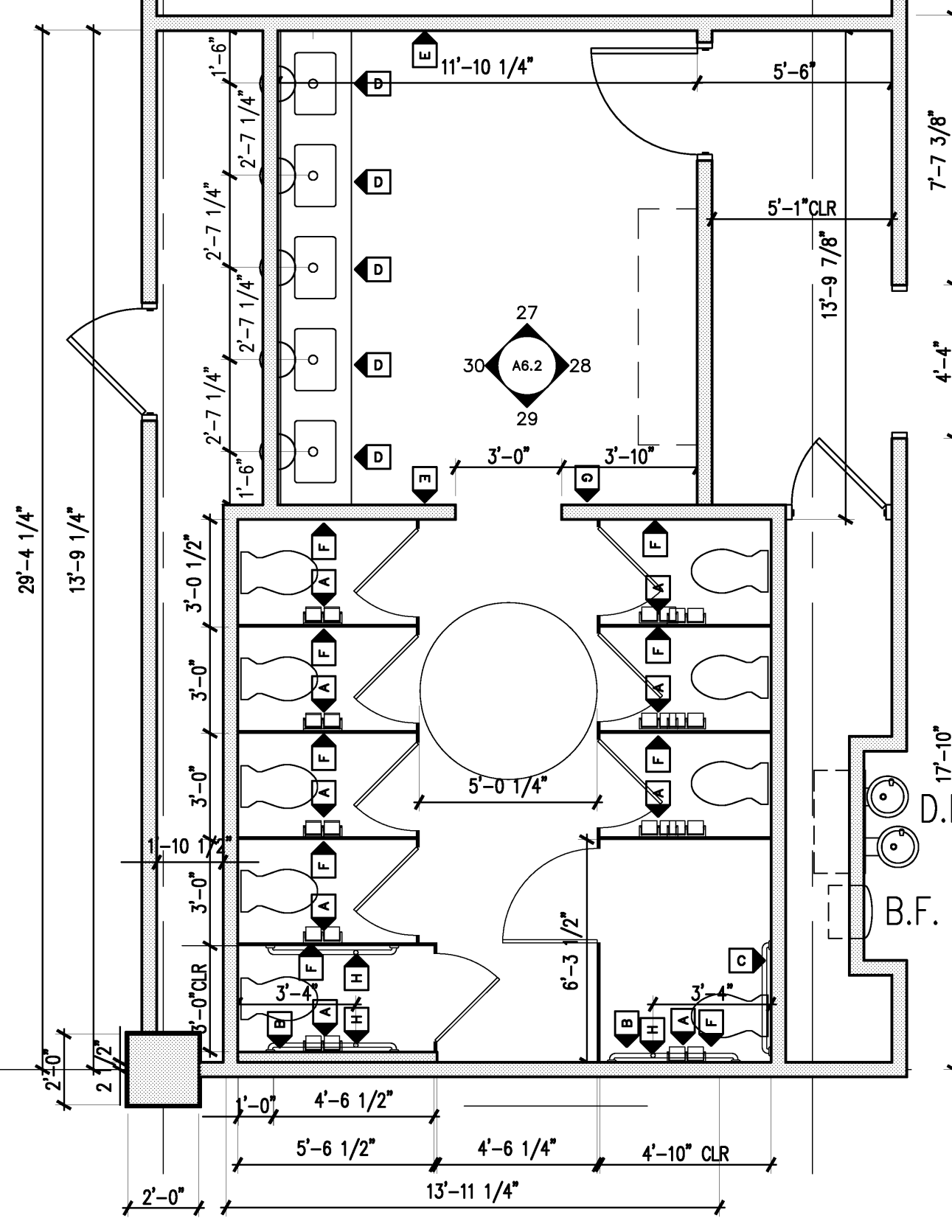
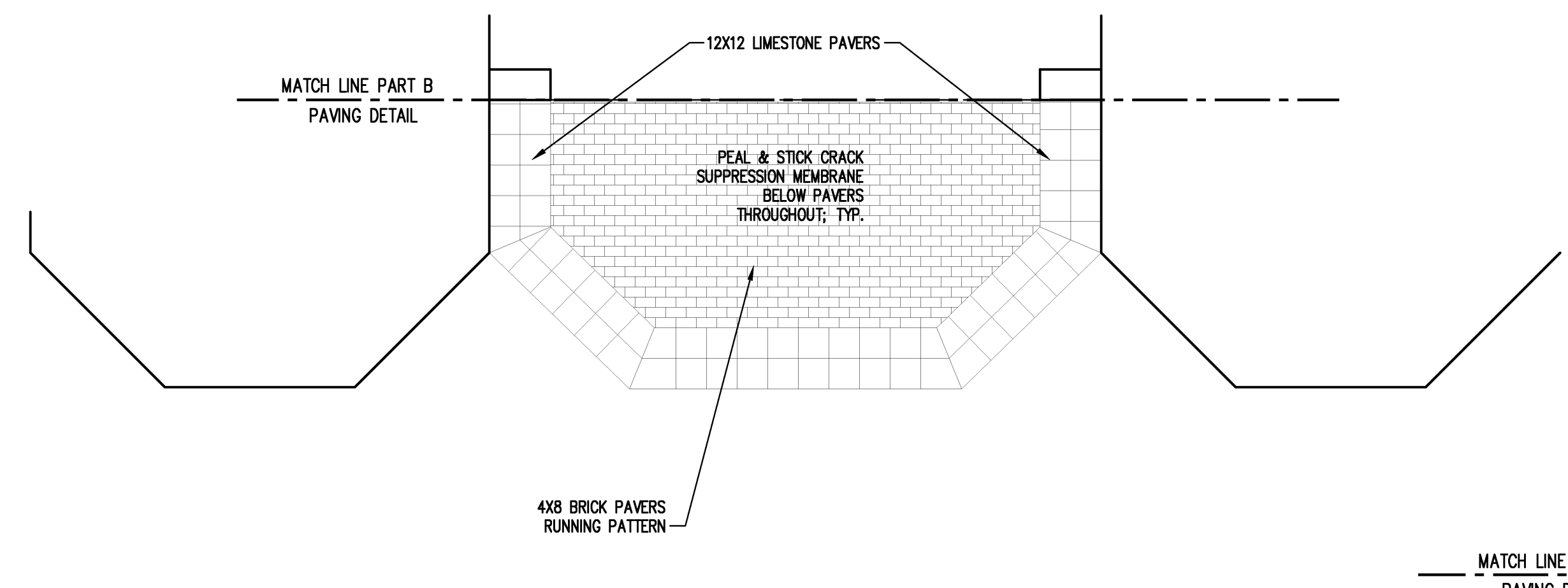
1 ENLARGED FLOOR PATTERN
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2 NOT USED
SCALE 1/4" = 1'-0"



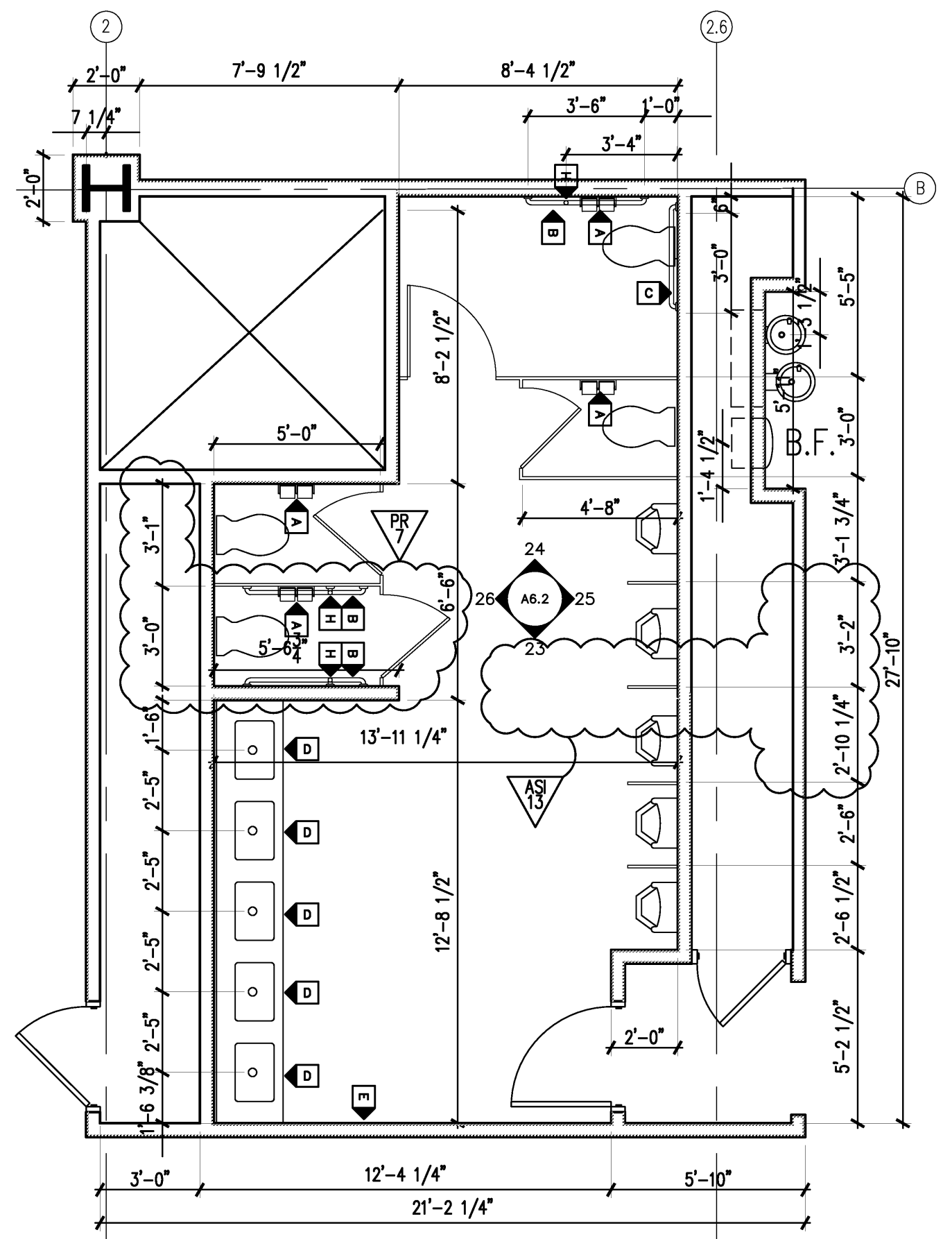
3 TYPICAL OFFICE
SCALE 1/4" = 1'-0"



4 TYPICAL WOMEN'S TOILET
SCALE 1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE	
A TOILET PAPER HOLDER	OF CI
B GRAB BAR	BOBRICK B-6806-42
C GRAB BAR	BOBRICK B-6806-36
D FRAMED MIRROR	OF CI
E PAPER TOWEL DISP	OF CI
F SAN. NAPKIN DISPOSAL	OF CI
G SAN. NAPKIN DISP	OF CI
H GRAB BAR	OF CI
I SOAP DISPENSER	OF CI

OF CI = OWNER FURNISHED CONTRACTOR INSTALLED



5 TYPICAL MEN'S TOILET
SCALE 1/4" = 1'-0"

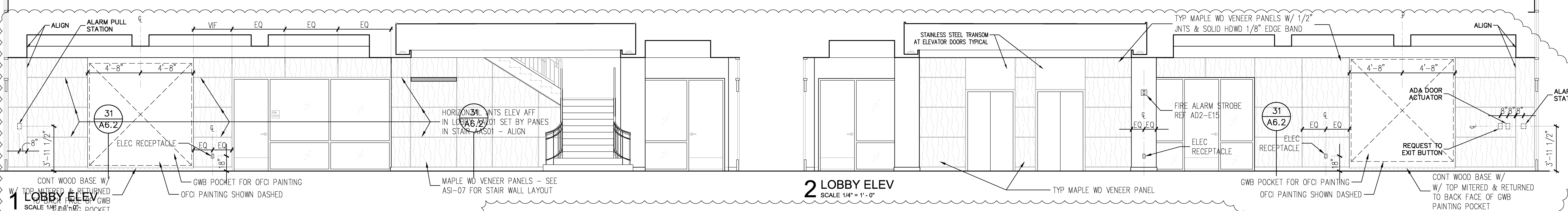


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Location: Jonesboro, AR
Date: October 03, 2013
Title: LOBBY FLOOR PATTERN PLAN, TYPICAL OFFICE PLAN, & ENLARGED RESTROOM PLANS
Sheet Number: **A6.1**

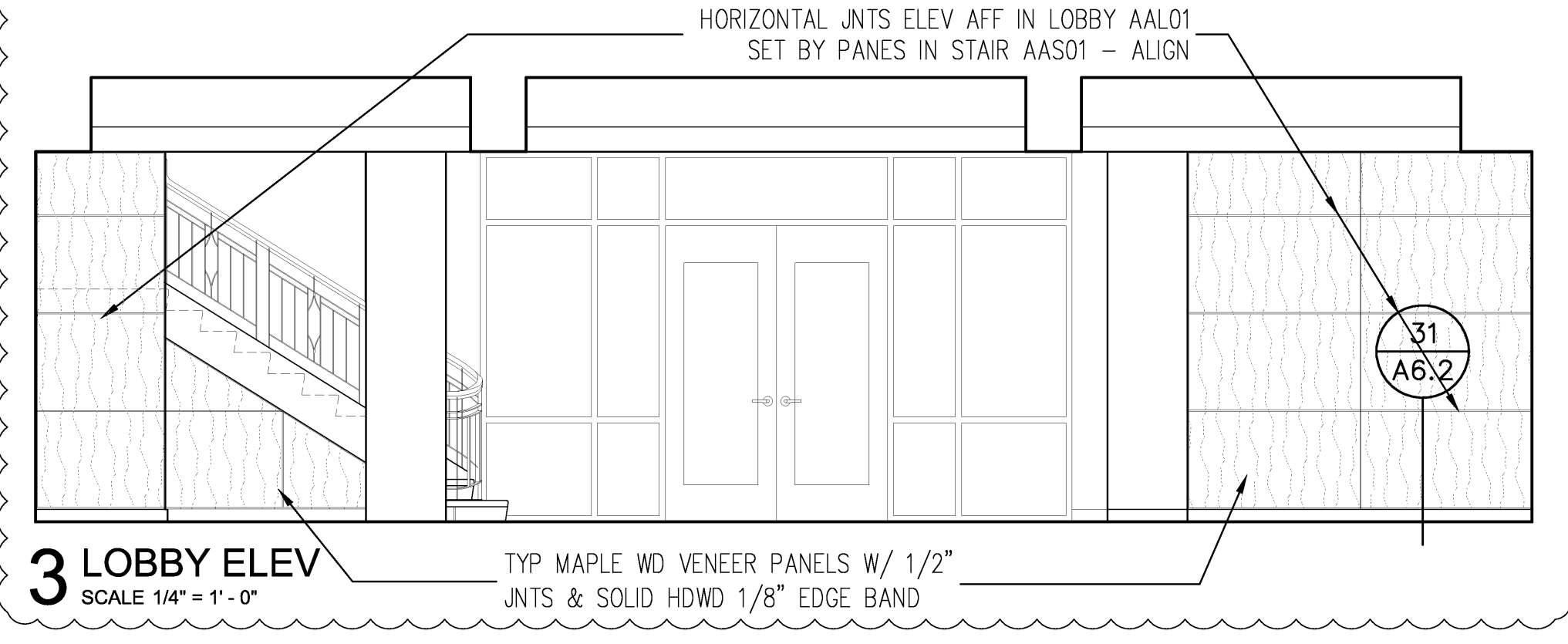
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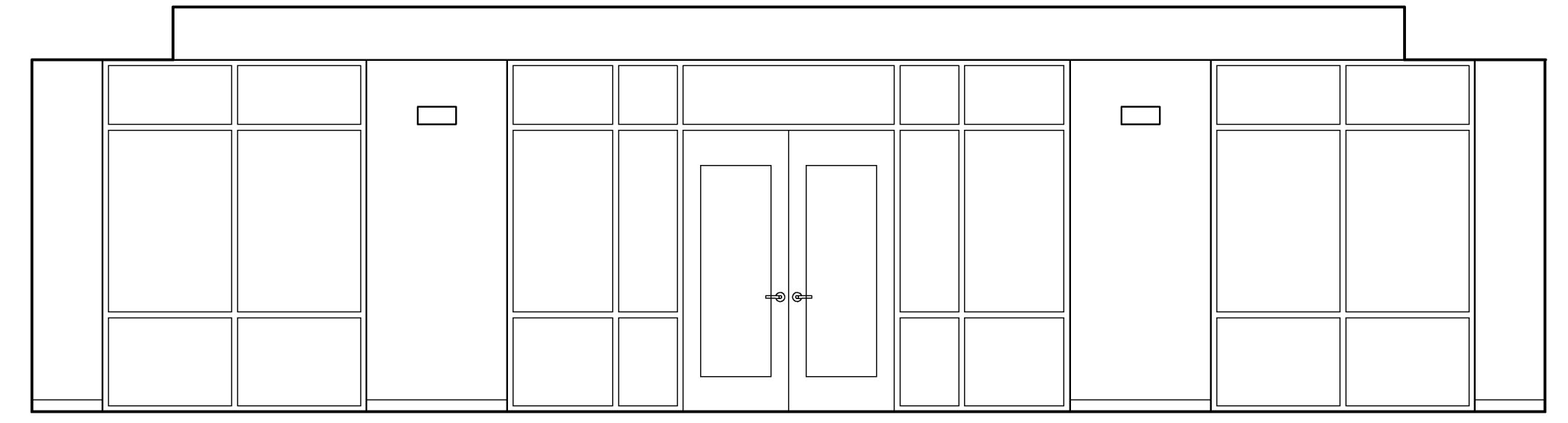


1 LOBBY ELEV
SCALE 1/4" = 1'-0"

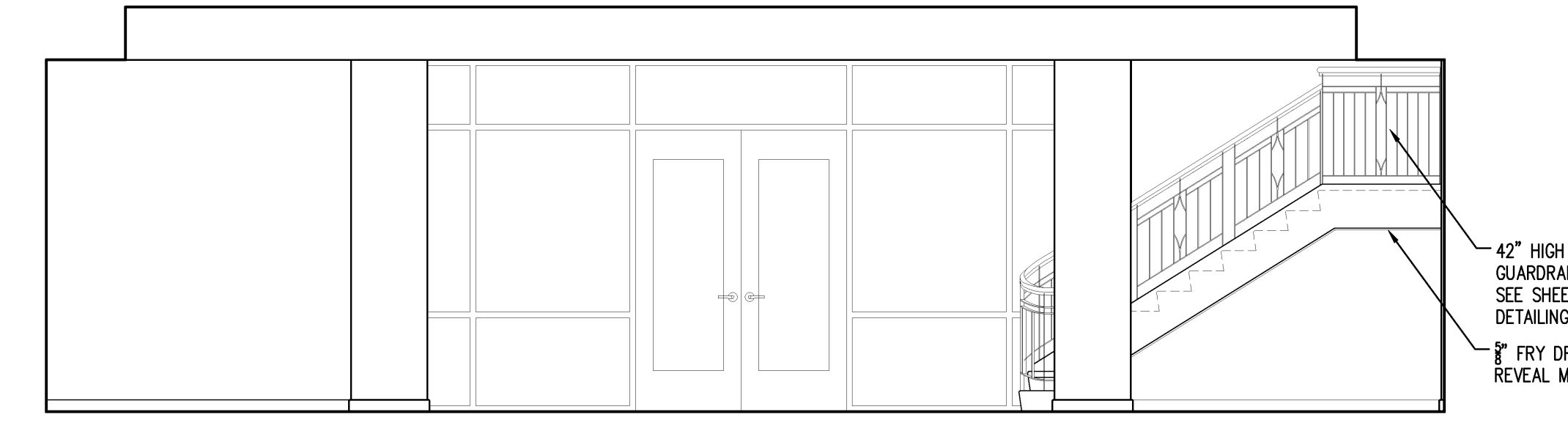
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SCALE 1/4" = 1'-0"



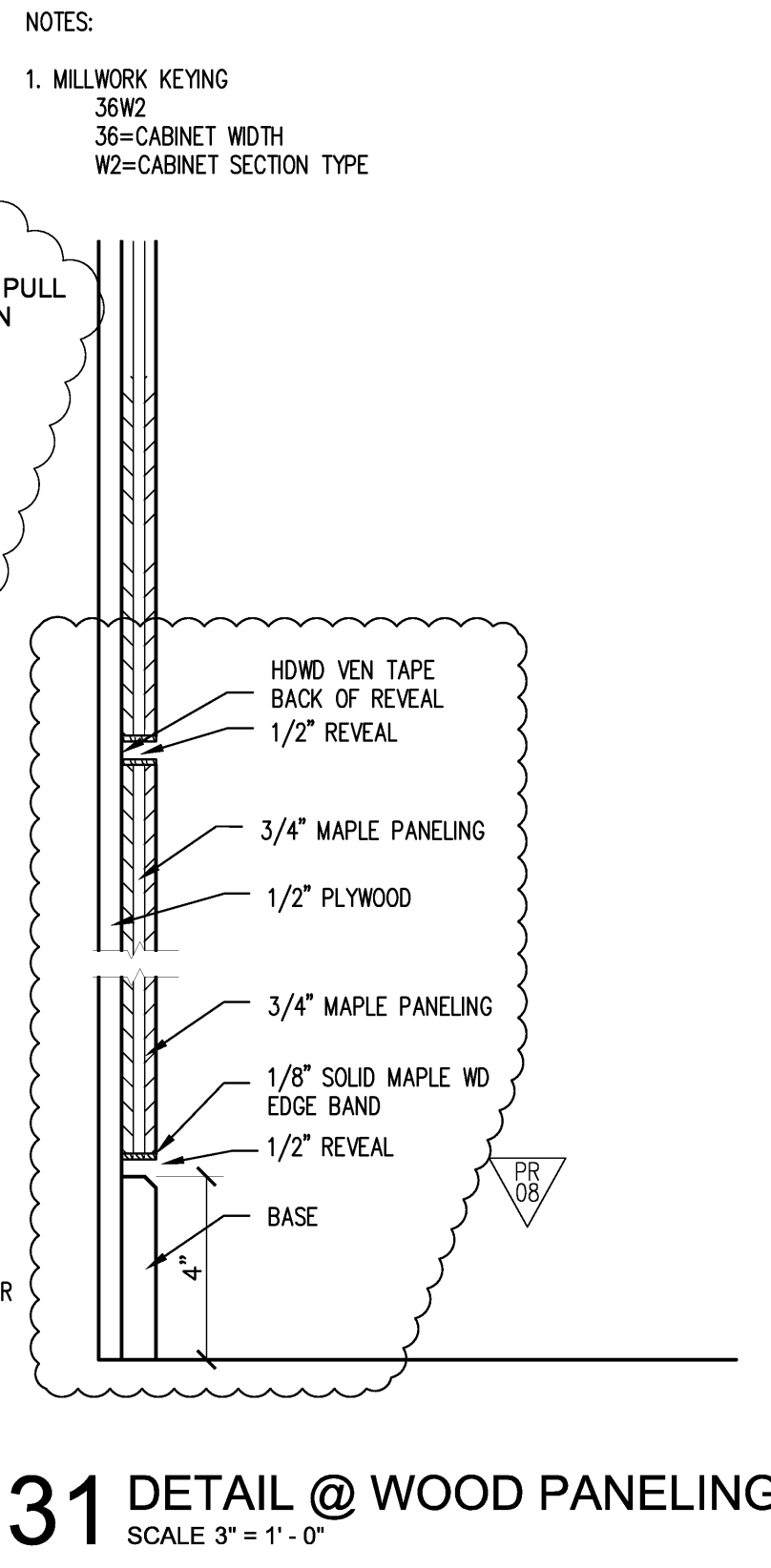
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SCALE 1/4" = 1'-0"



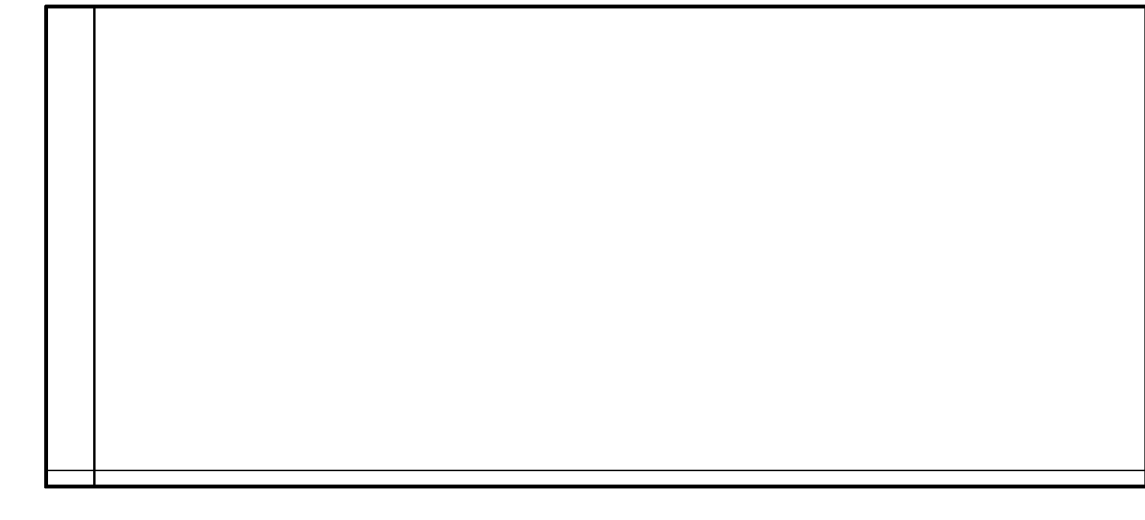
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SCALE 1/4" = 1'-0"



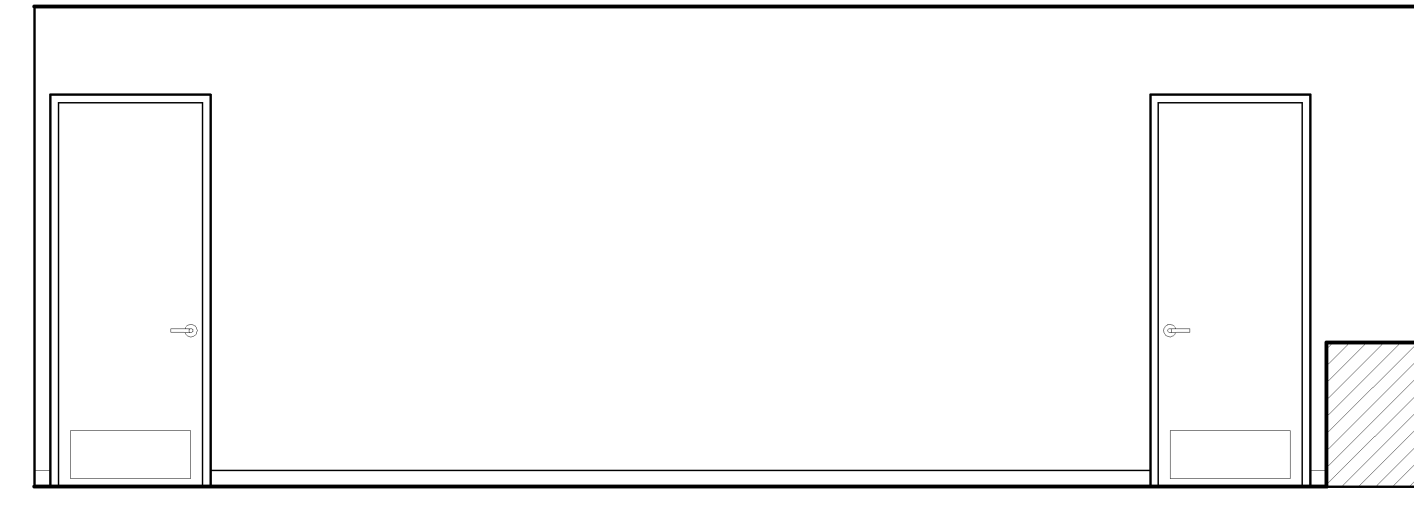
5 LOBBY ELEV
SCALE 1/4" = 1'-0"



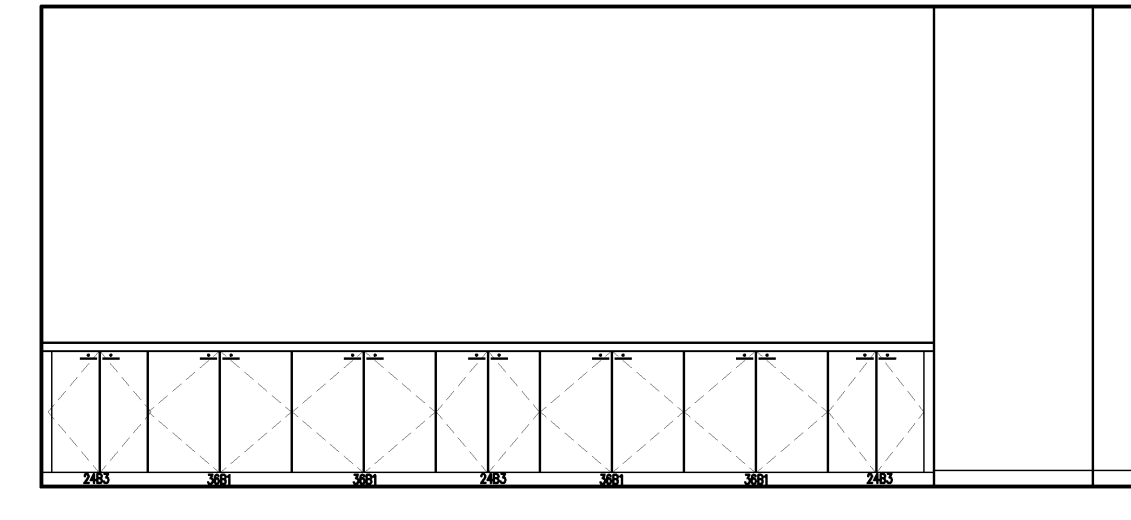
31 DETAIL @ WOOD PANELING
SCALE 3\"/>



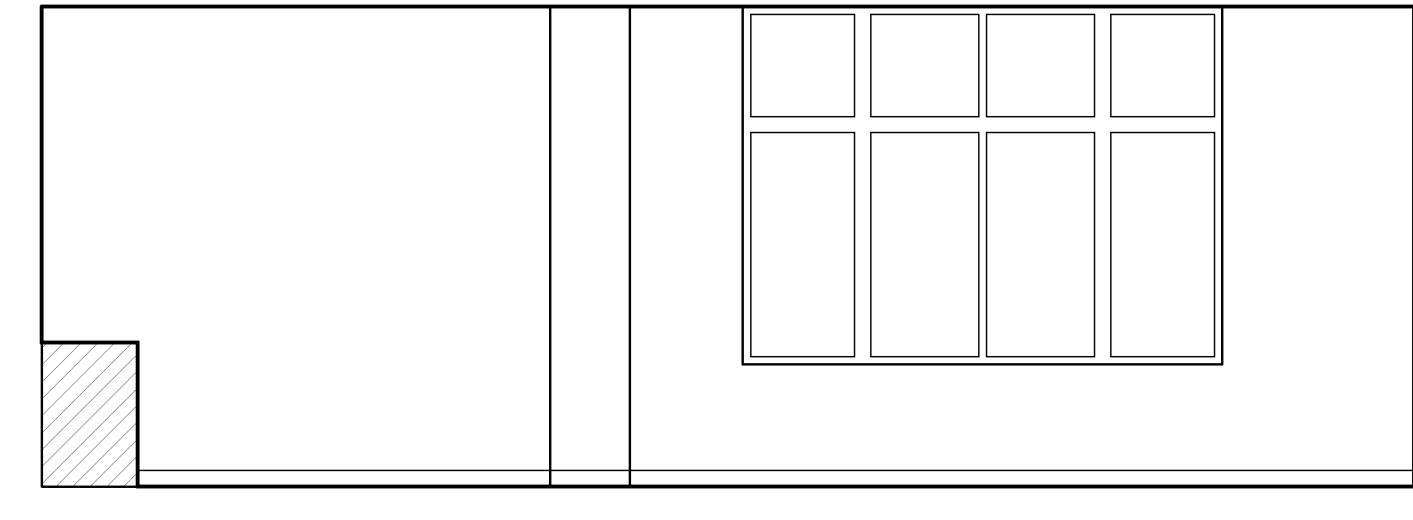
6 CONFERENCE ROOM ELEV
SCALE 1/4" = 1'-0"



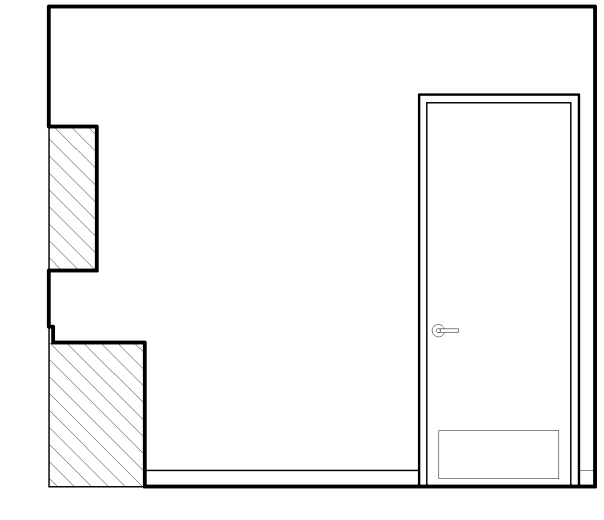
7 CONFERENCE ROOM ELEV
SCALE 1/4" = 1'-0"



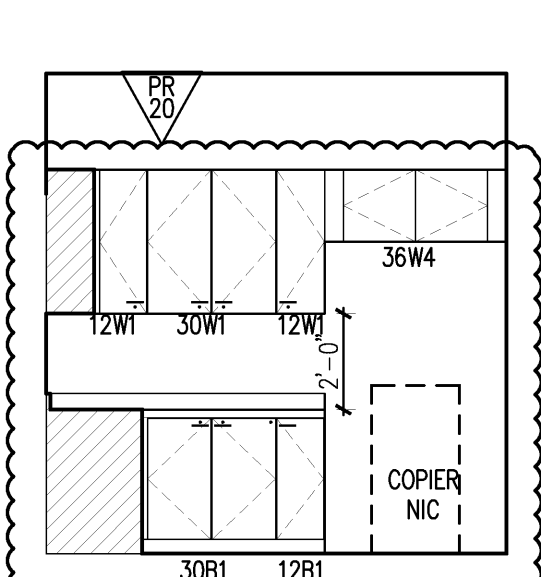
8 CONFERENCE ROOM ELEV
SCALE 1/4" = 1'-0"



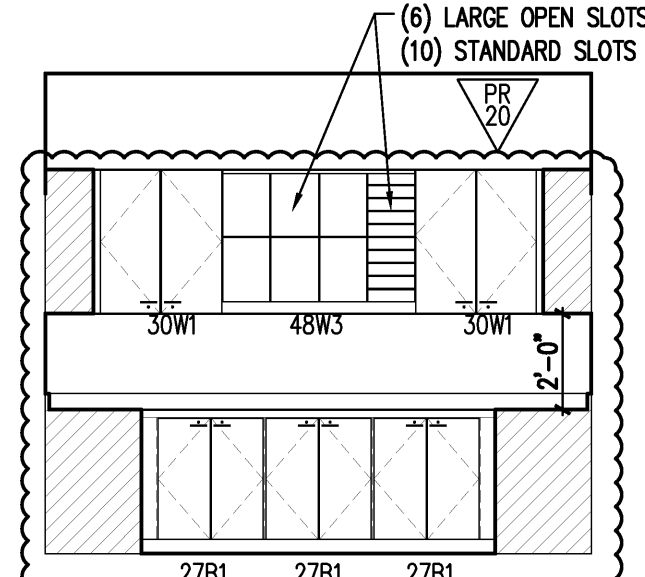
9 CONFERENCE ROOM ELEV
SCALE 1/4" = 1'-0"



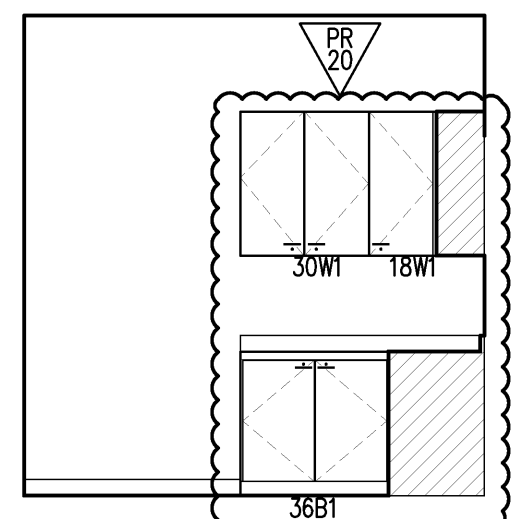
10 WORKROOM #114 ELEV
SCALE 1/4" = 1'-0"



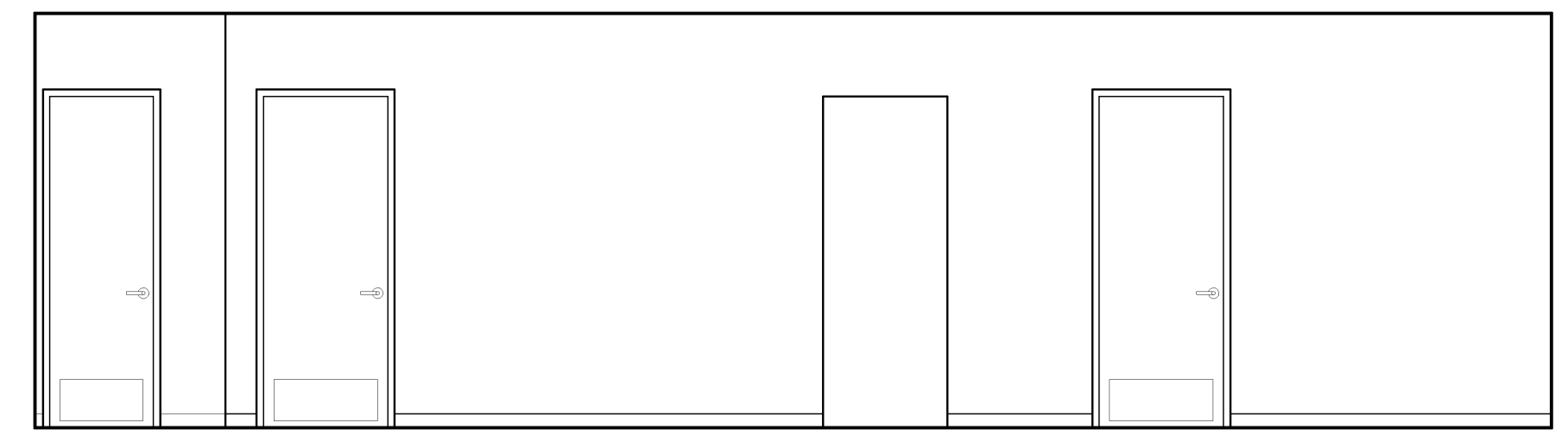
11 WORKROOM #114 ELEV
SCALE 1/4" = 1'-0"



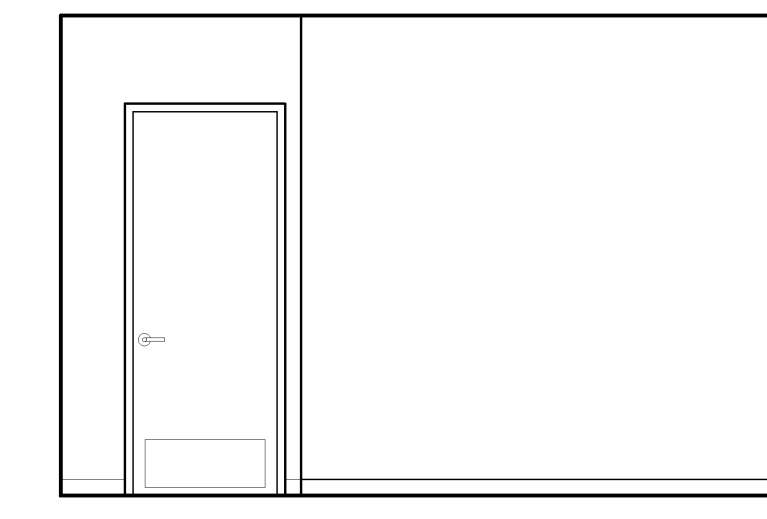
12 WORKROOM #114 ELEV
SCALE 1/4" = 1'-0"



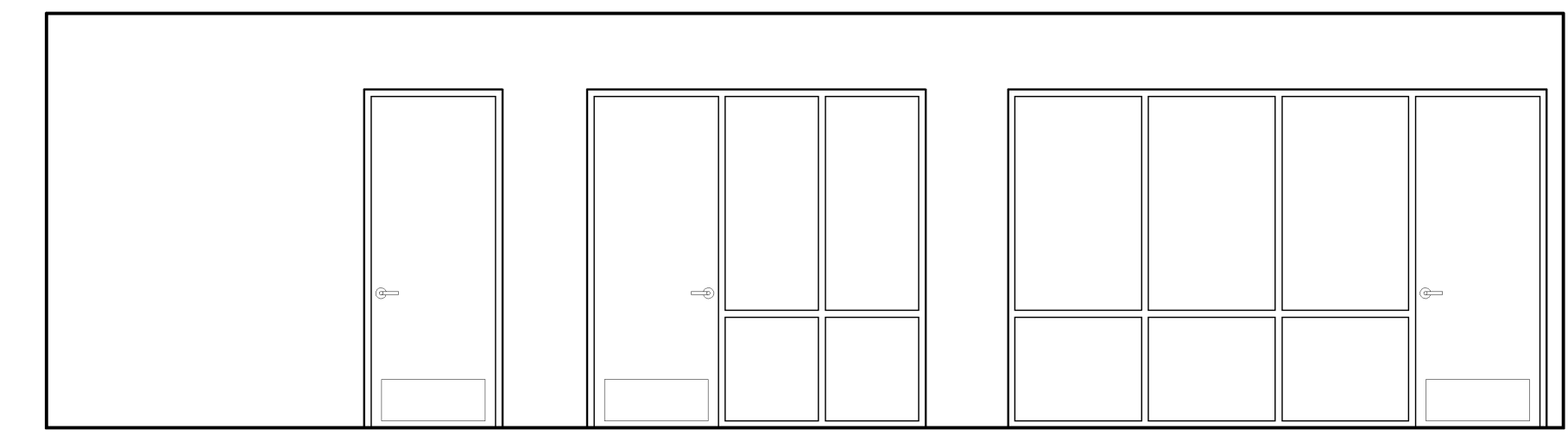
13 WORKROOM #114 ELEV
SCALE 1/4" = 1'-0"



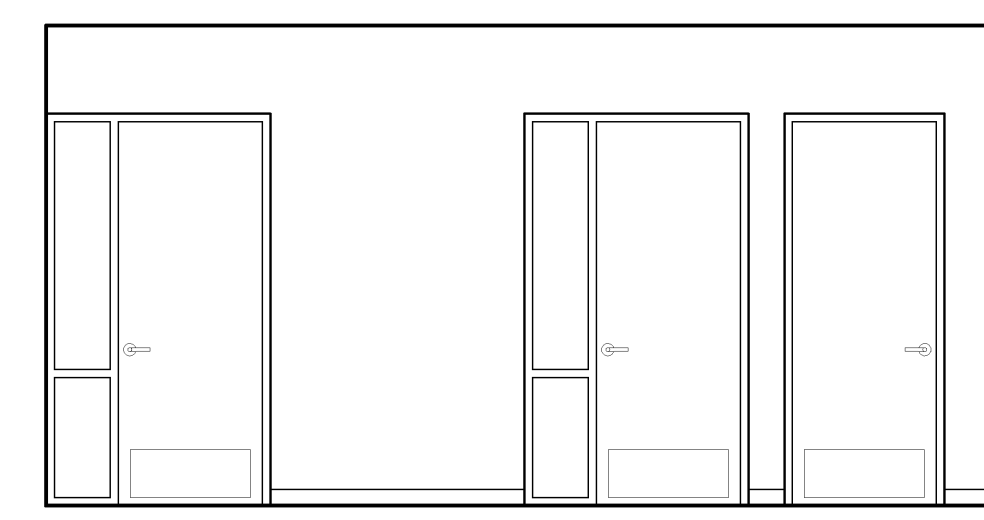
14 DEANS OFFICE ELEV
SCALE 1/4" = 1'-0"



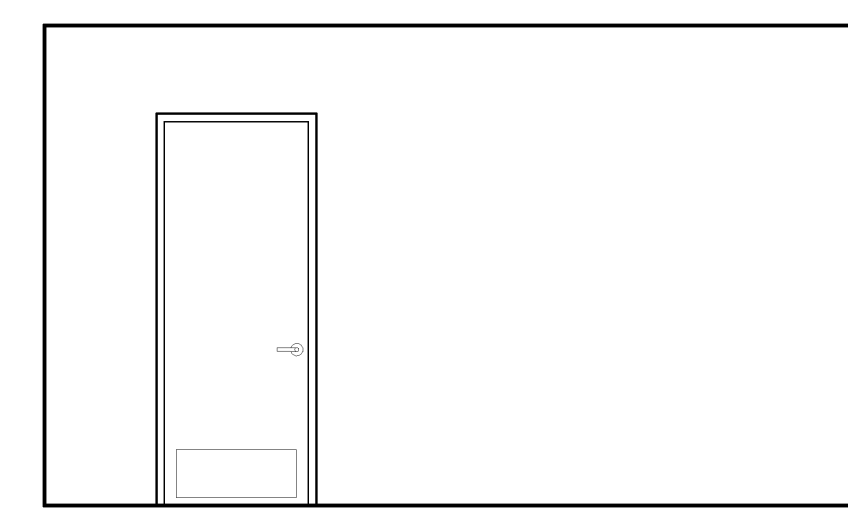
15 DEANS OFFICE ELEV
SCALE 1/4" = 1'-0"



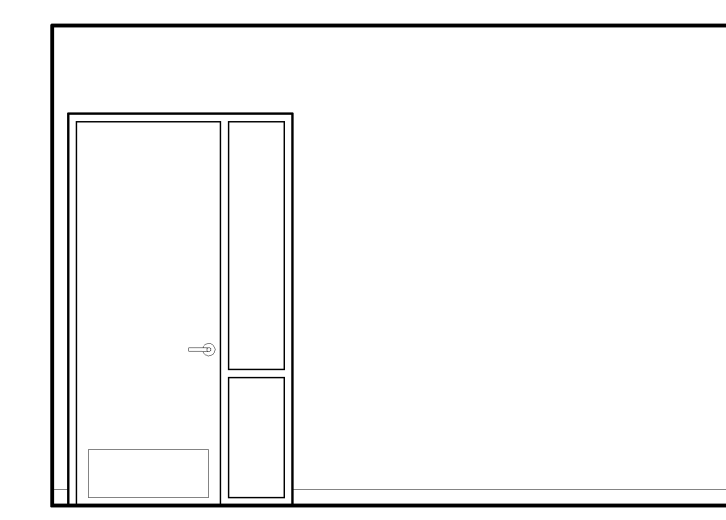
16 DEANS OFFICE ELEV
SCALE 1/4" = 1'-0"



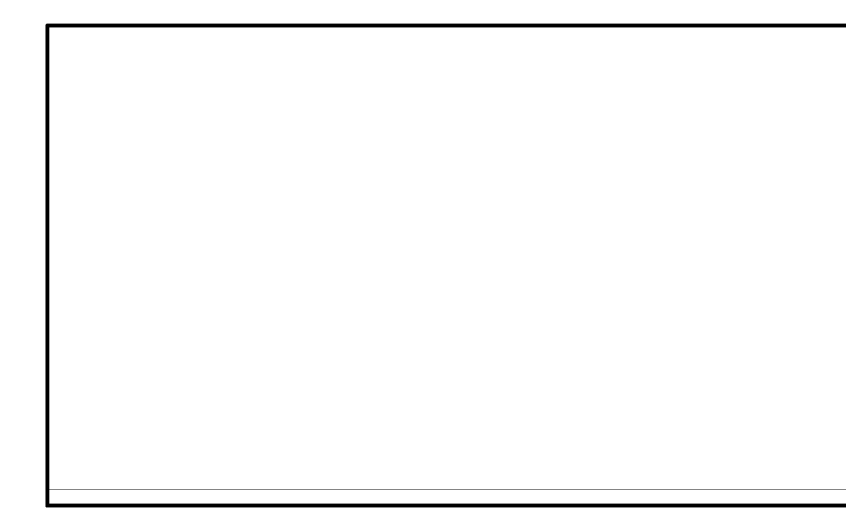
17 DEANS OFFICE ELEV
SCALE 1/4" = 1'-0"



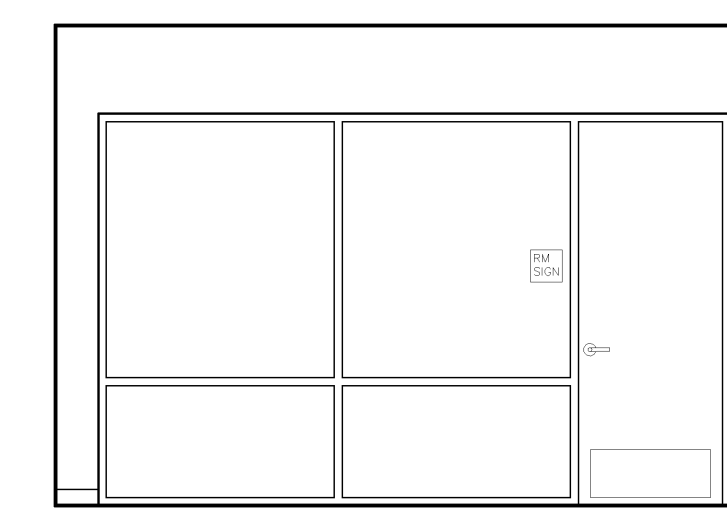
18 DEANS OFFICE ELEV
SCALE 1/4" = 1'-0"



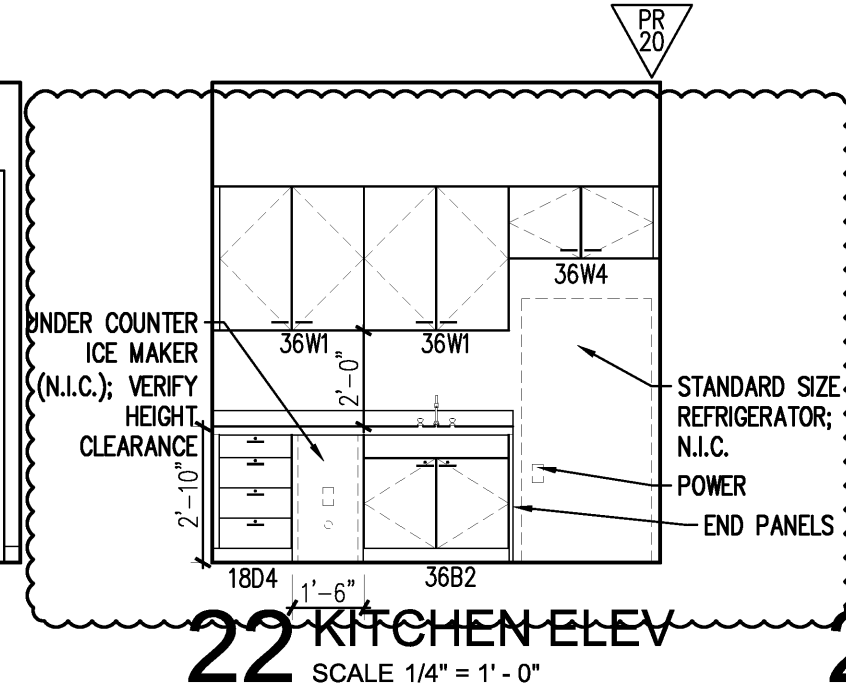
19 DEANS RECP. ELEV
SCALE 1/4" = 1'-0"



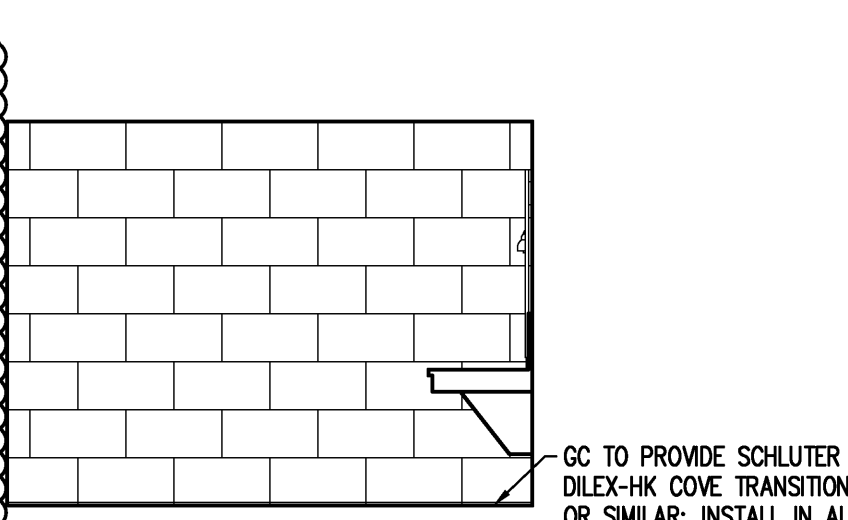
20 DEANS RECP. ELEV
SCALE 1/4" = 1'-0"



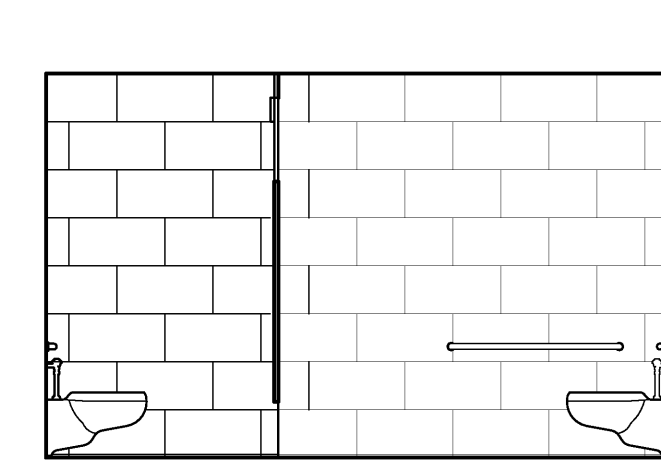
21 DEANS RECP. ELEV
SCALE 1/4" = 1'-0"



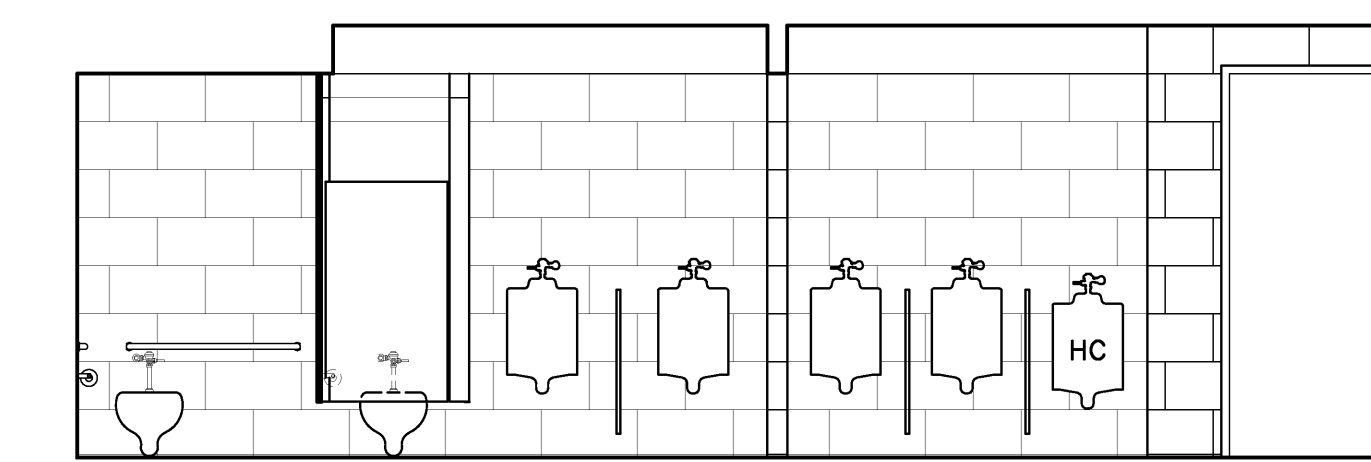
22 KITCHEN ELEV
SCALE 1/4" = 1'-0"



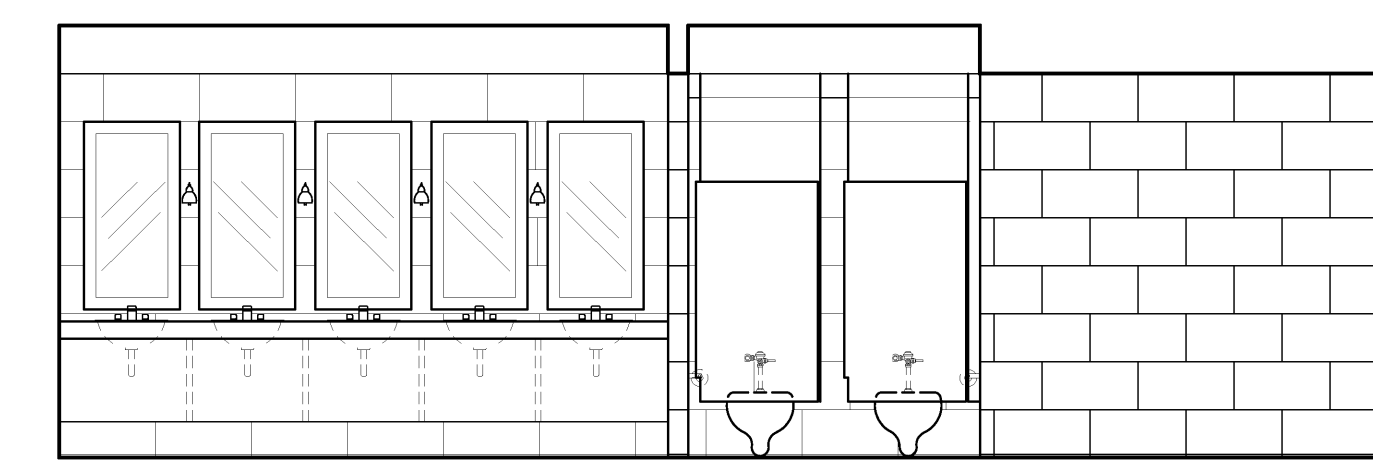
23 MEN ROOM ELEV
SCALE 1/4" = 1'-0"



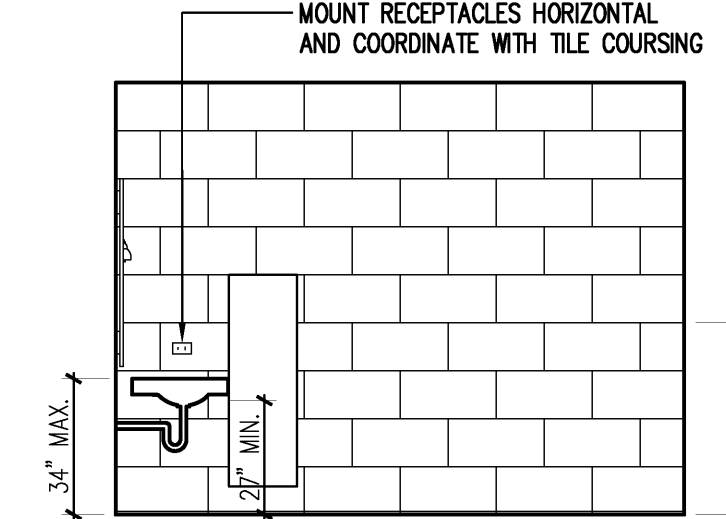
24 MEN ROOM ELEV
SCALE 1/4" = 1'-0"



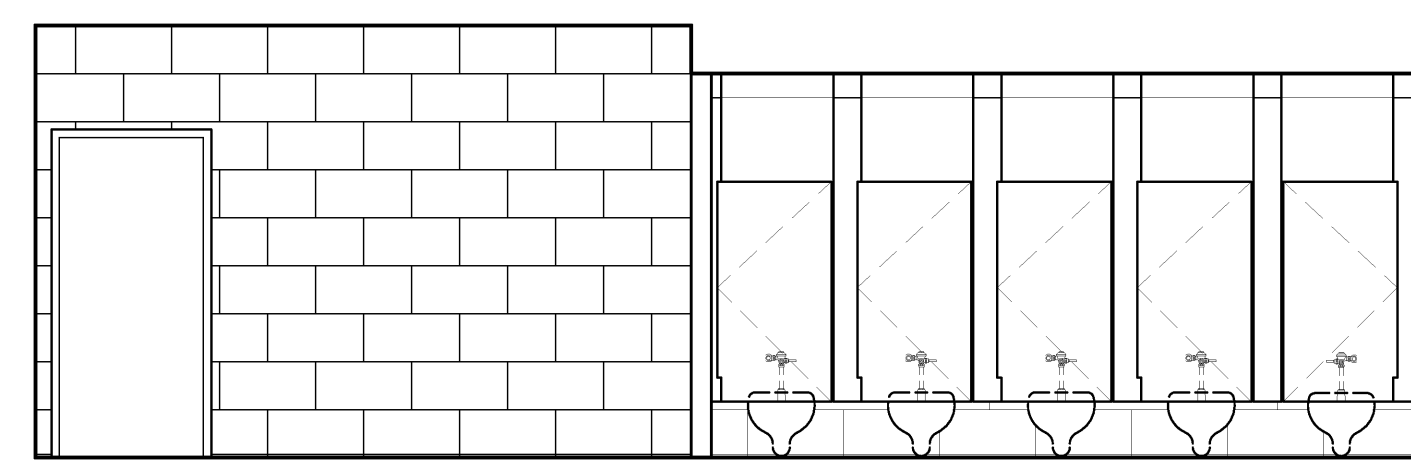
25 MEN ROOM ELEV
SCALE 1/4" = 1'-0"



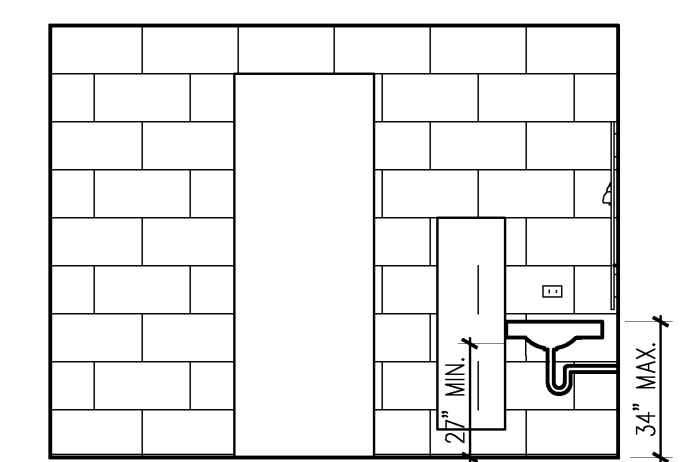
26 MEN ROOM ELEV
SCALE 1/4" = 1'-0"



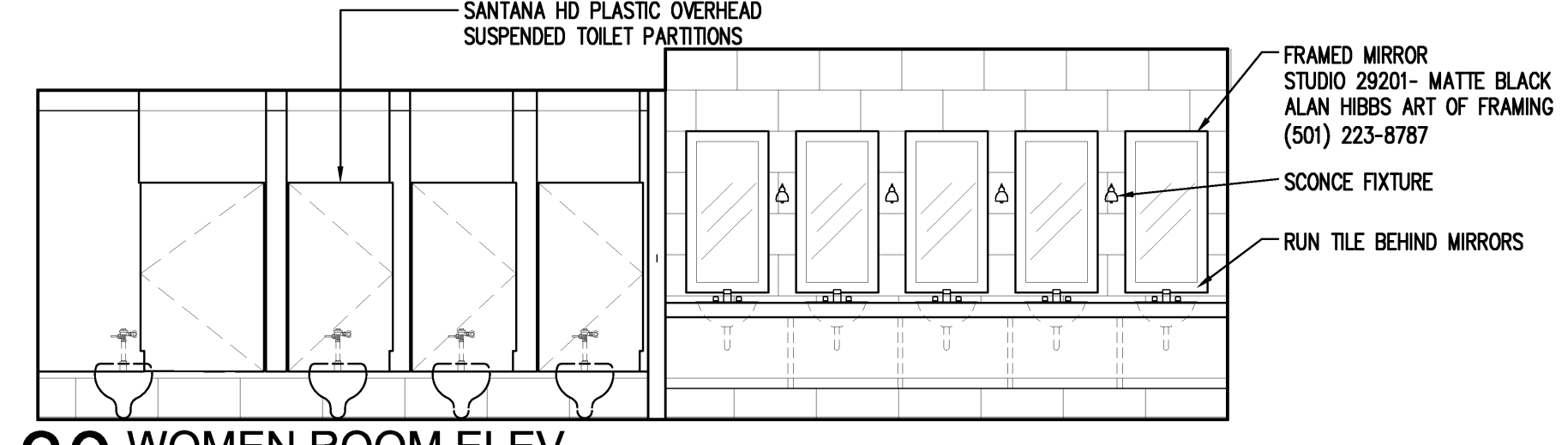
27 WOMEN ROOM ELEV
SCALE 1/4" = 1'-0"



28 WOMEN ROOM ELEV
SCALE 1/4" = 1'-0"



29 WOMEN ROOM ELEV
SCALE 1/4" = 1'-0"



30 WOMEN ROOM ELEV
SCALE 1/4" = 1'-0"

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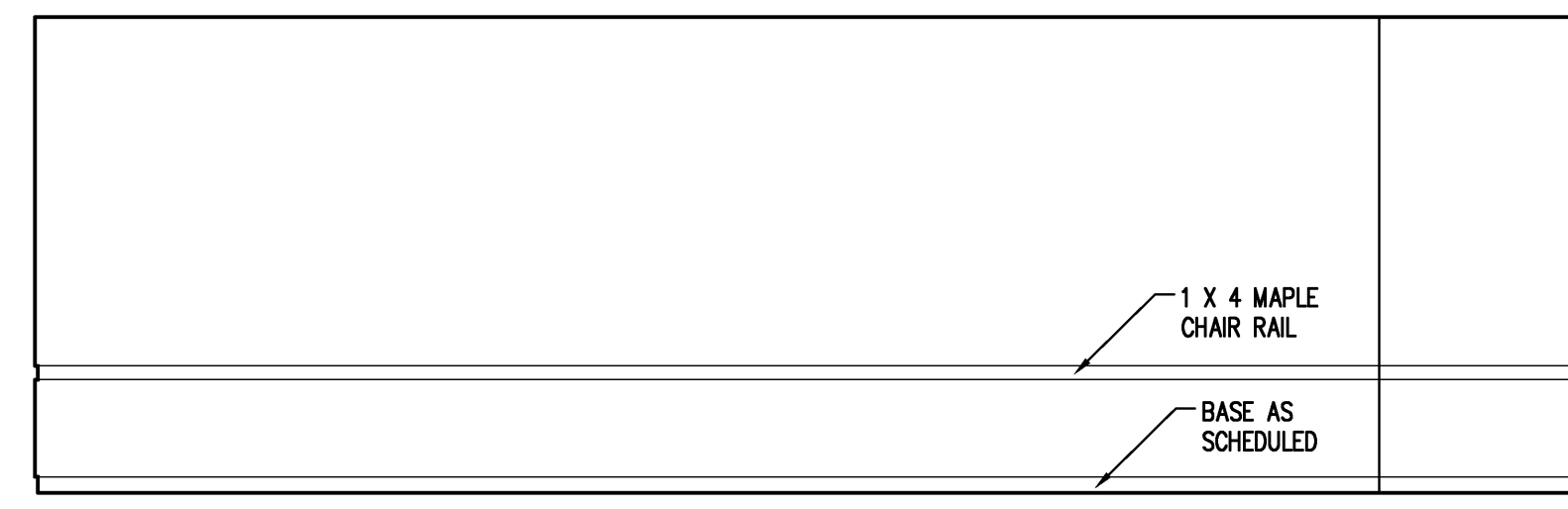


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: INTERIOR ELEVATIONS
Sheet Number: **A6.2**

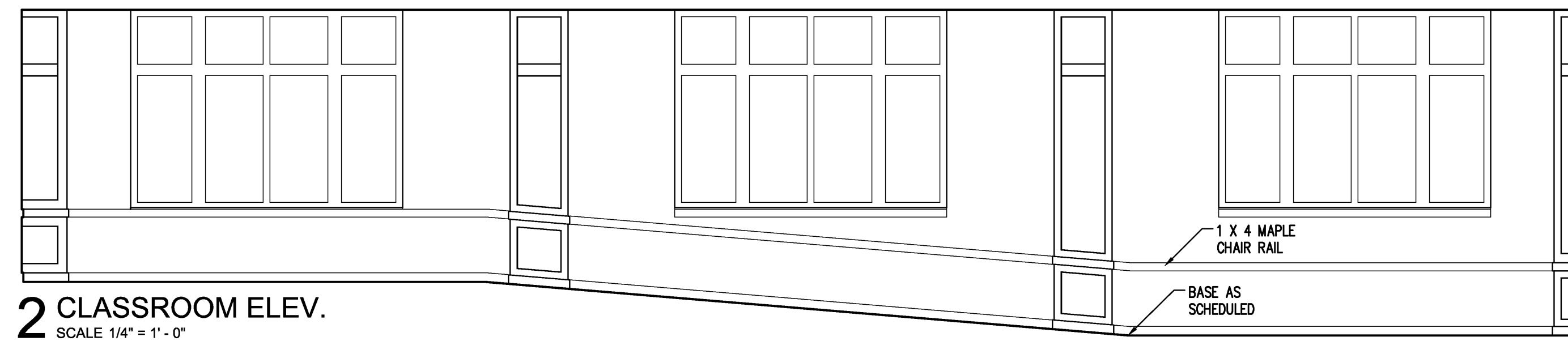
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
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THIS SHEET, ADJUST
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SHEET REISSUED 07/14/14 (Millwork Rev)
SHEET REISSUED 02/28/14

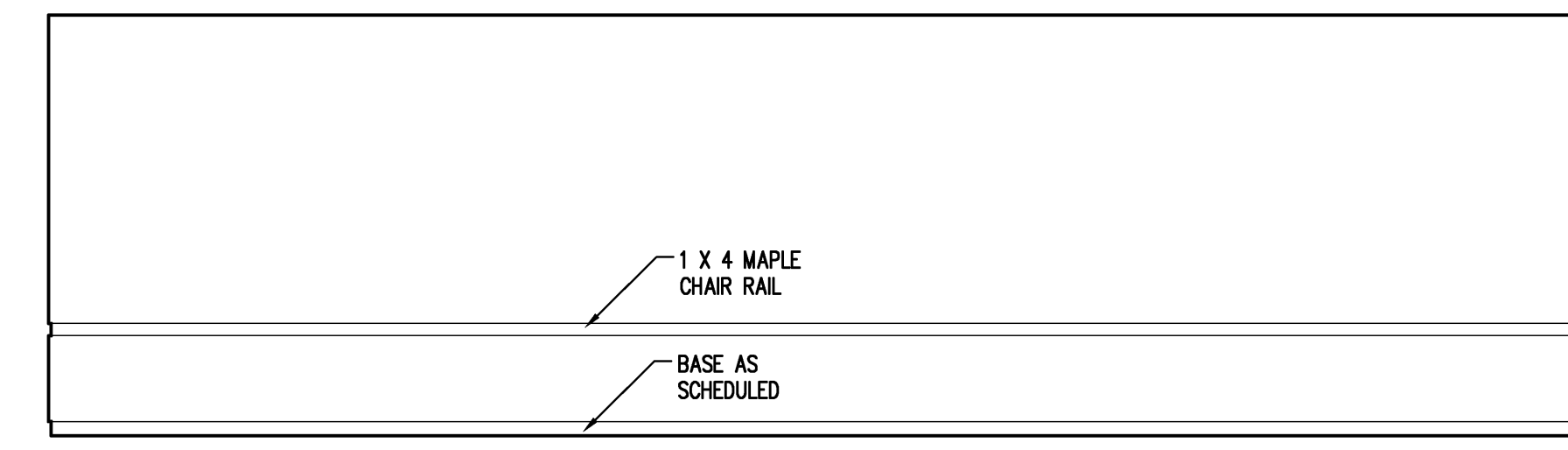
NOTES:
 1. MILLWORK KEYING
 36W2
 36=CABINET WIDTH
 W2=CABINET SECTION TYPE



1 CLASSROOM ELEV.
 SCALE 1/4" = 1'-0"



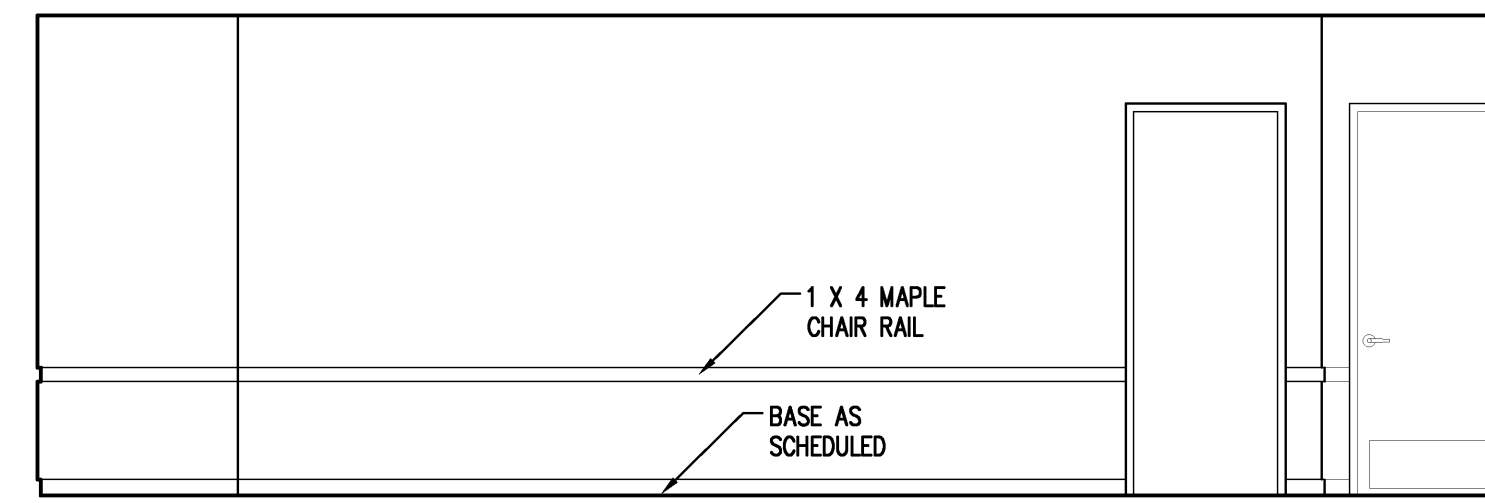
2 CLASSROOM ELEV.
 SCALE 1/4" = 1'-0"



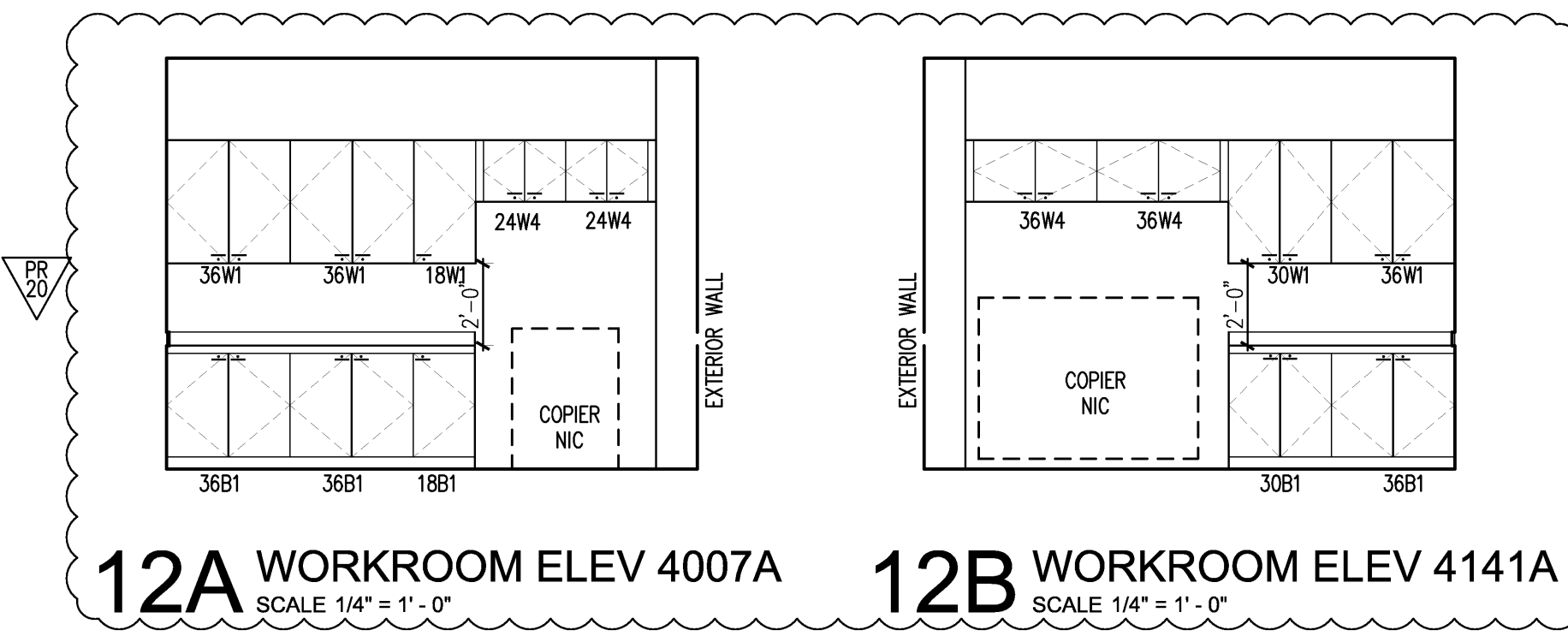
3 CLASSROOM ELEV.
 SCALE 1/4" = 1'-0"



4 CLASSROOM ELEV.
 SCALE 1/4" = 1'-0"

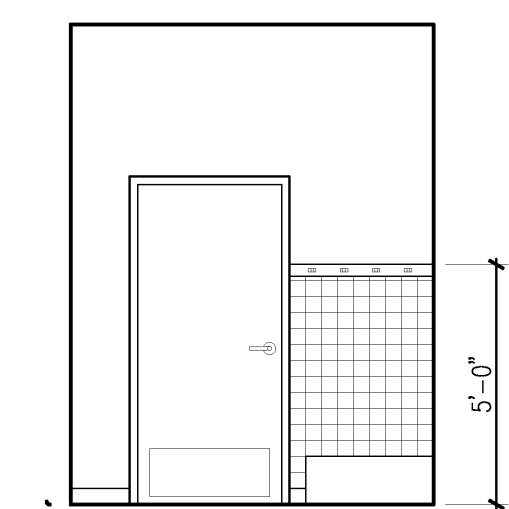


5 CLASSROOM ELEV.
 SCALE 1/4" = 1'-0"

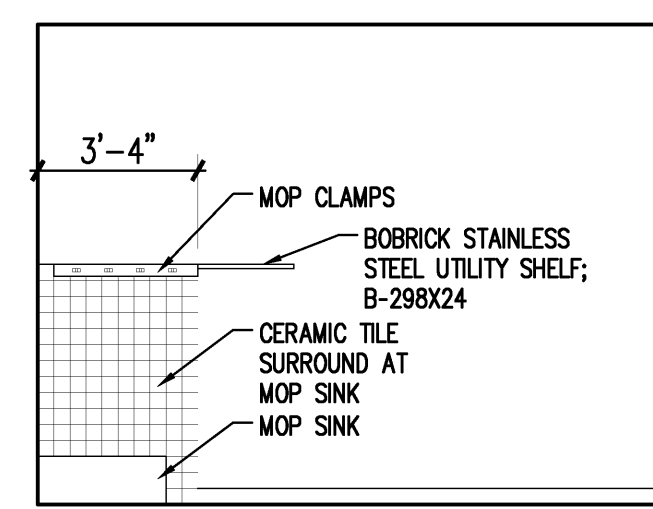


12A WORKROOM ELEV 4007A
 SCALE 1/4" = 1'-0"

12B WORKROOM ELEV 4141A
 SCALE 1/4" = 1'-0"

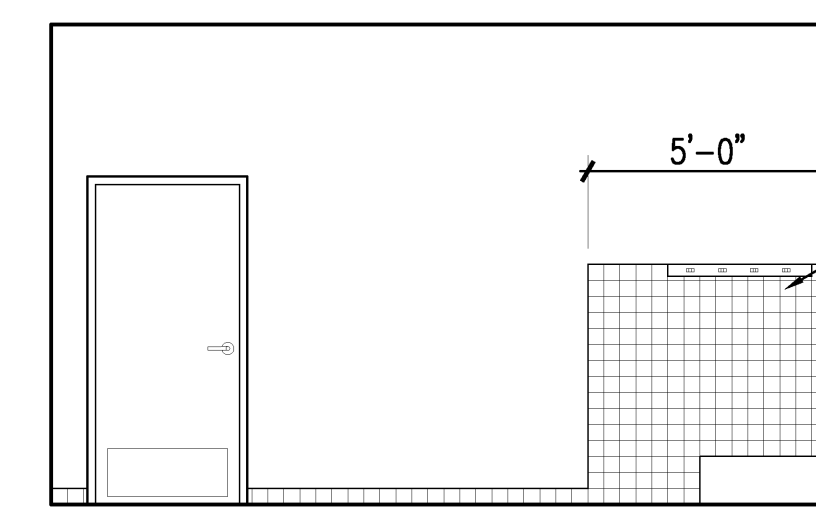


6 JAN. CLOS. ELEV
 SCALE 1/4" = 1'-0"

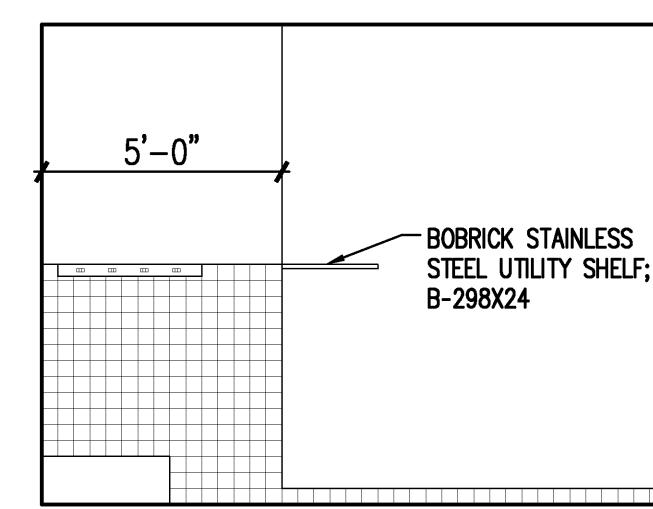


7 JAN. CLOS. ELEV
 SCALE 1/4" = 1'-0"

8 NOT USED
 SCALE 1/4" = 1'-0"

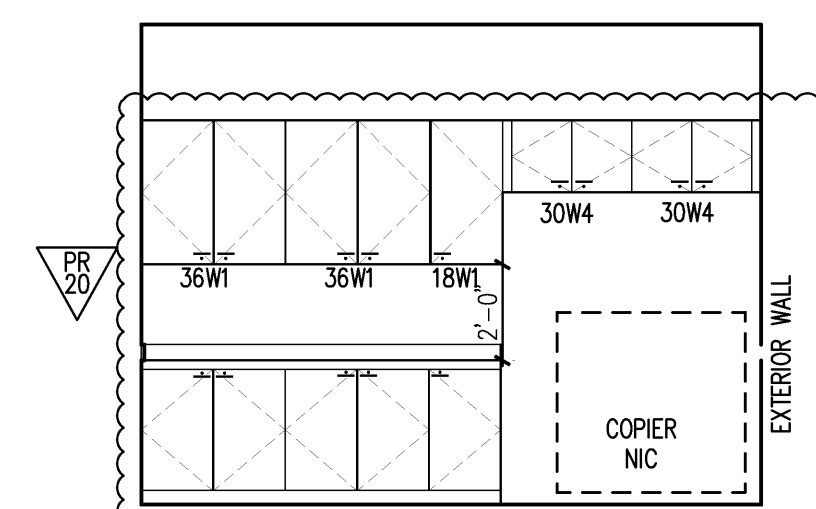


9 JAN. CLOS. 1043 ELEV
 SCALE 1/4" = 1'-0"



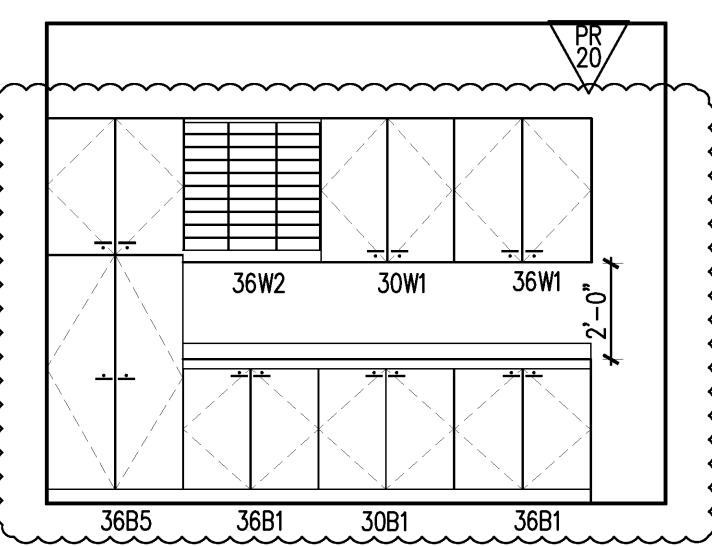
10 JAN. CLOS. 1043 ELEV
 SCALE 1/4" = 1'-0"

11 NOT USED
 SCALE 1/4" = 1'-0"

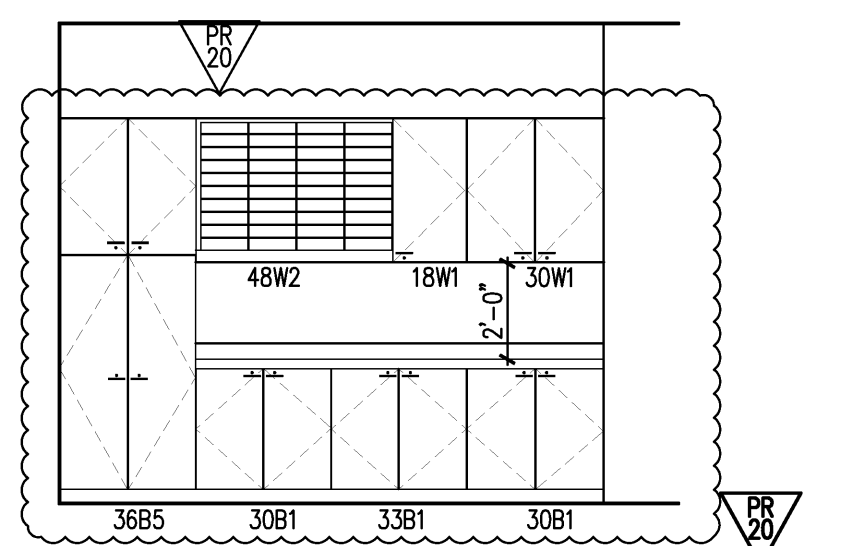


12 TYP. WORKROOM ELEV FL 2,3
 SCALE 1/4" = 1'-0"

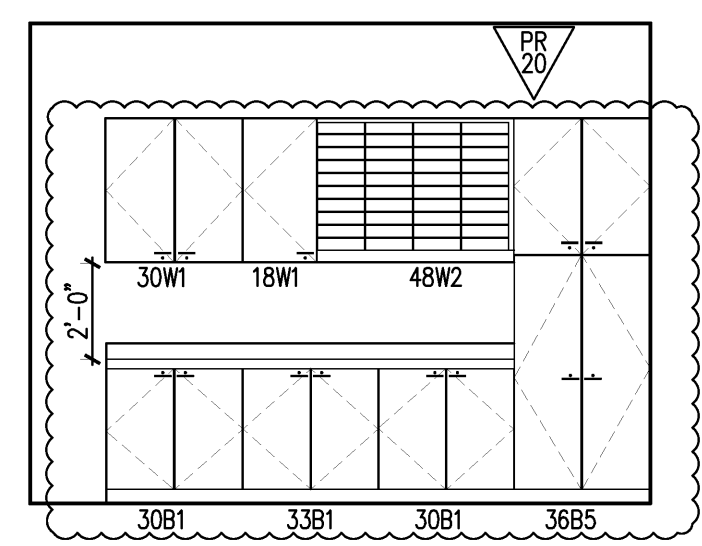
13 NOT USED
 SCALE 1/4" = 1'-0"



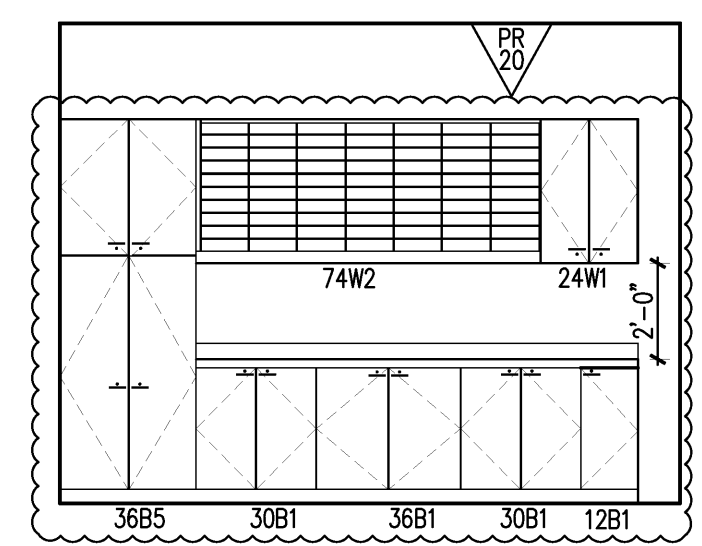
14 POLI SCI, LANGUAGE WK ELEV
 SCALE 1/4" = 1'-0"



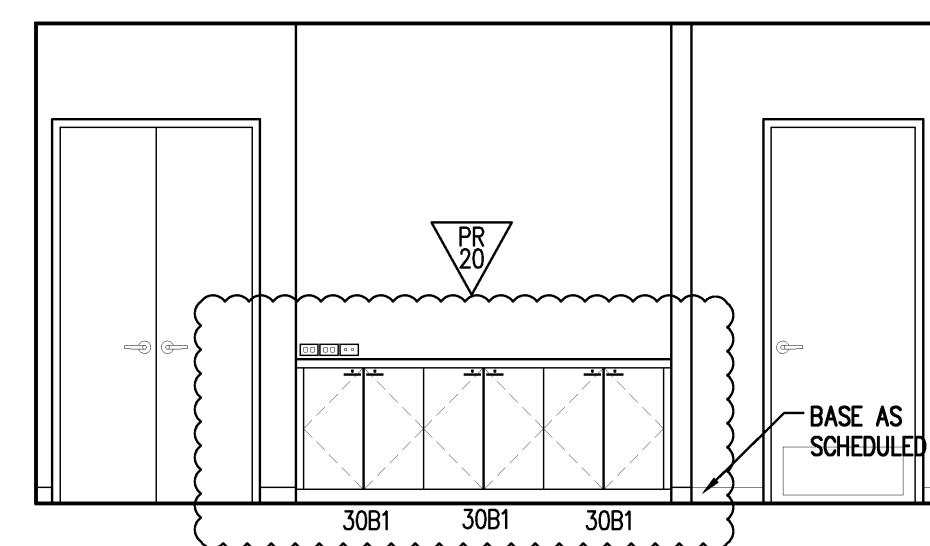
17 CSSWG WORKROOM ELEV
 SCALE 1/4" = 1'-0"



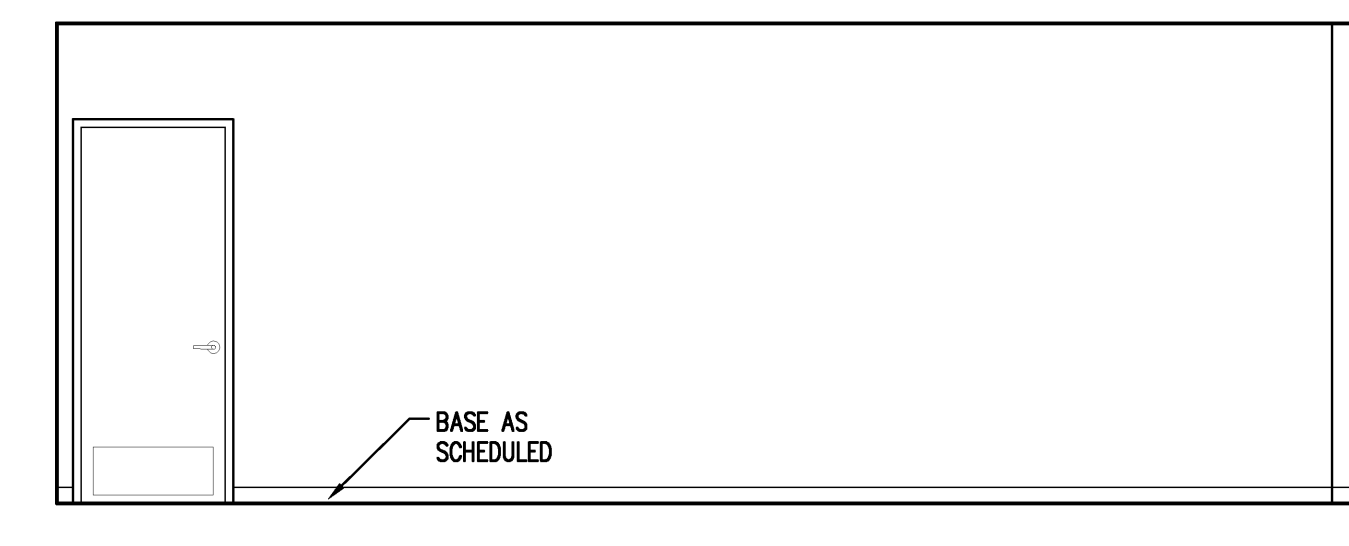
16 HISTORY WORKROOM ELEV
 SCALE 1/4" = 1'-0"



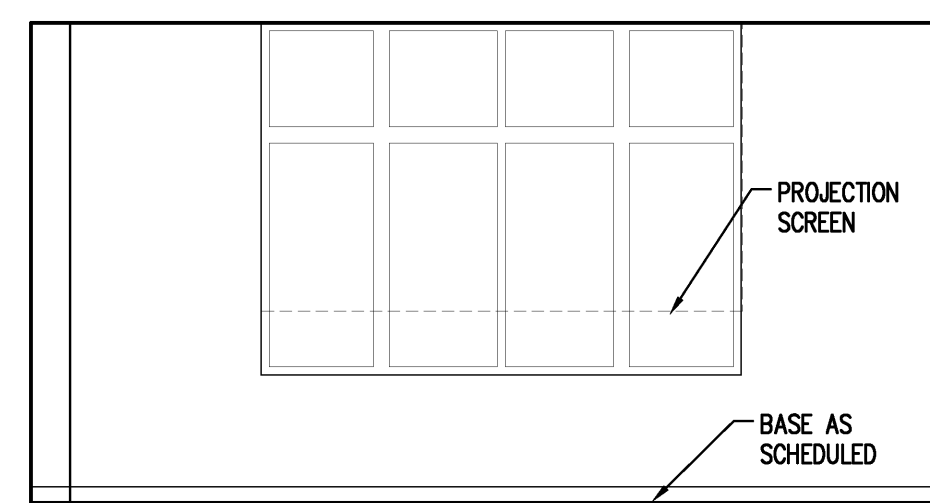
15 ENGLISH WORKROOM ELEV
 SCALE 1/4" = 1'-0"



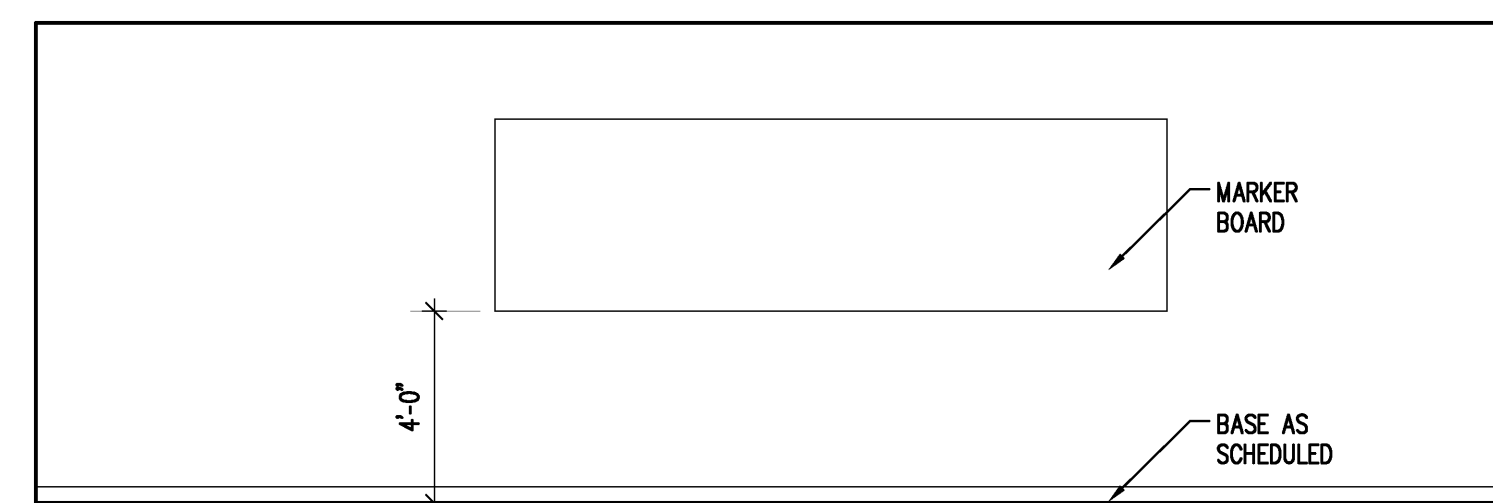
18 TYP. CONFERENCE ROOM ELEV
 SCALE 1/4" = 1'-0"



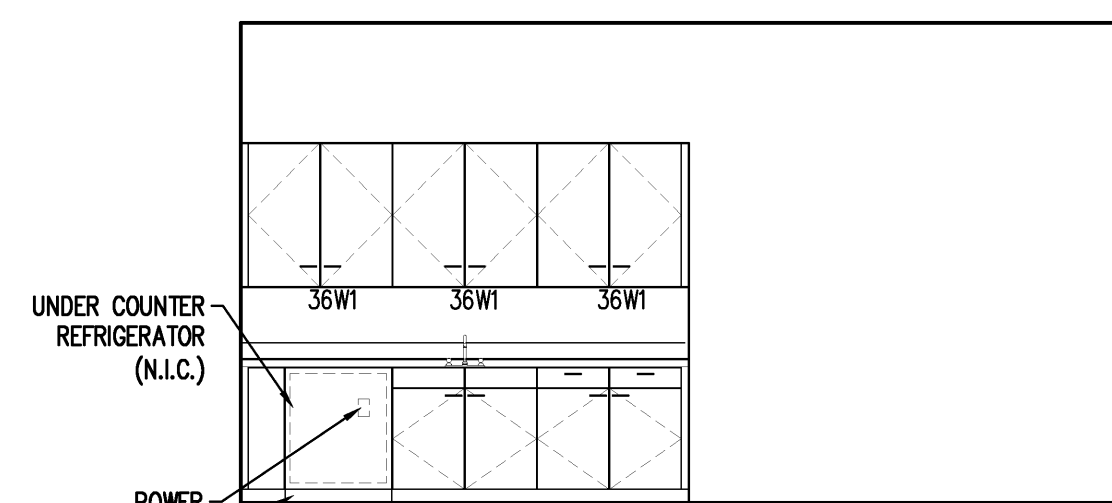
19 TYP. CONFERENCE ROOM ELEV
 SCALE 1/4" = 1'-0"



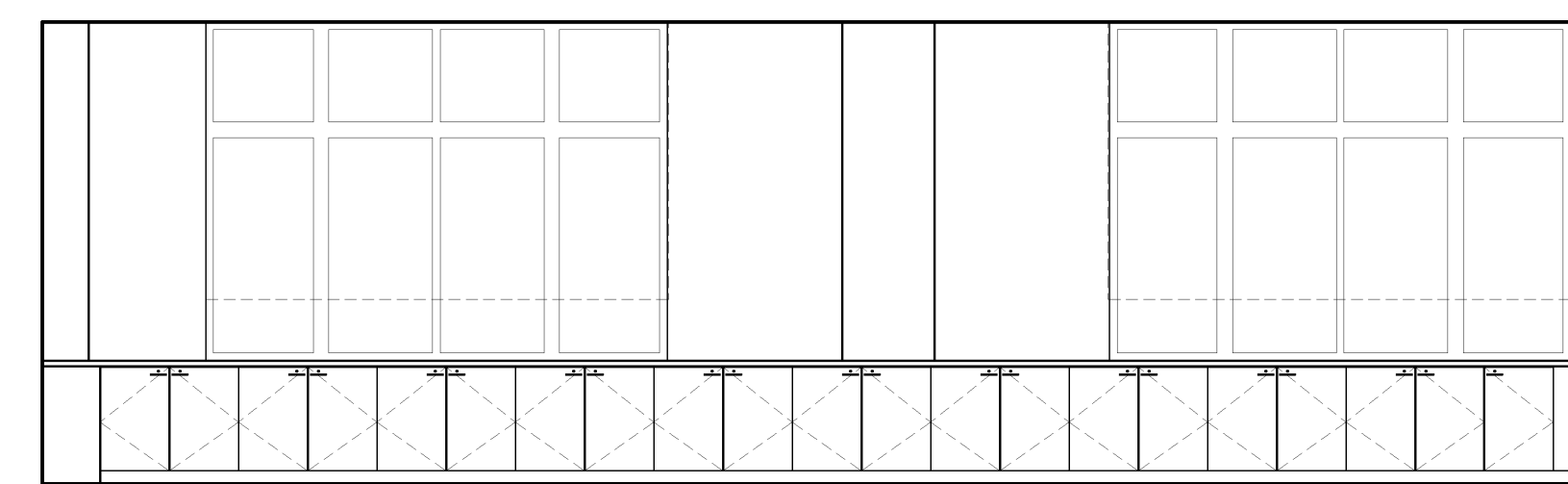
20 TYP. CONFERENCE ROOM ELEV
 SCALE 1/4" = 1'-0"



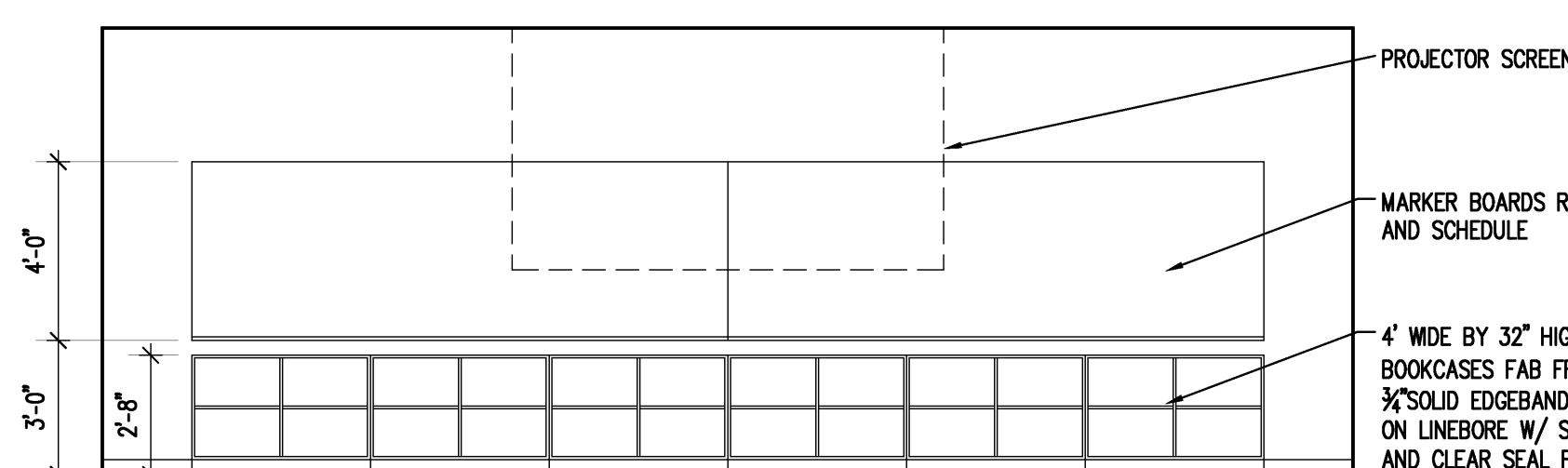
21 TYP. CONFERENCE ROOM ELEV
 SCALE 1/4" = 1'-0"



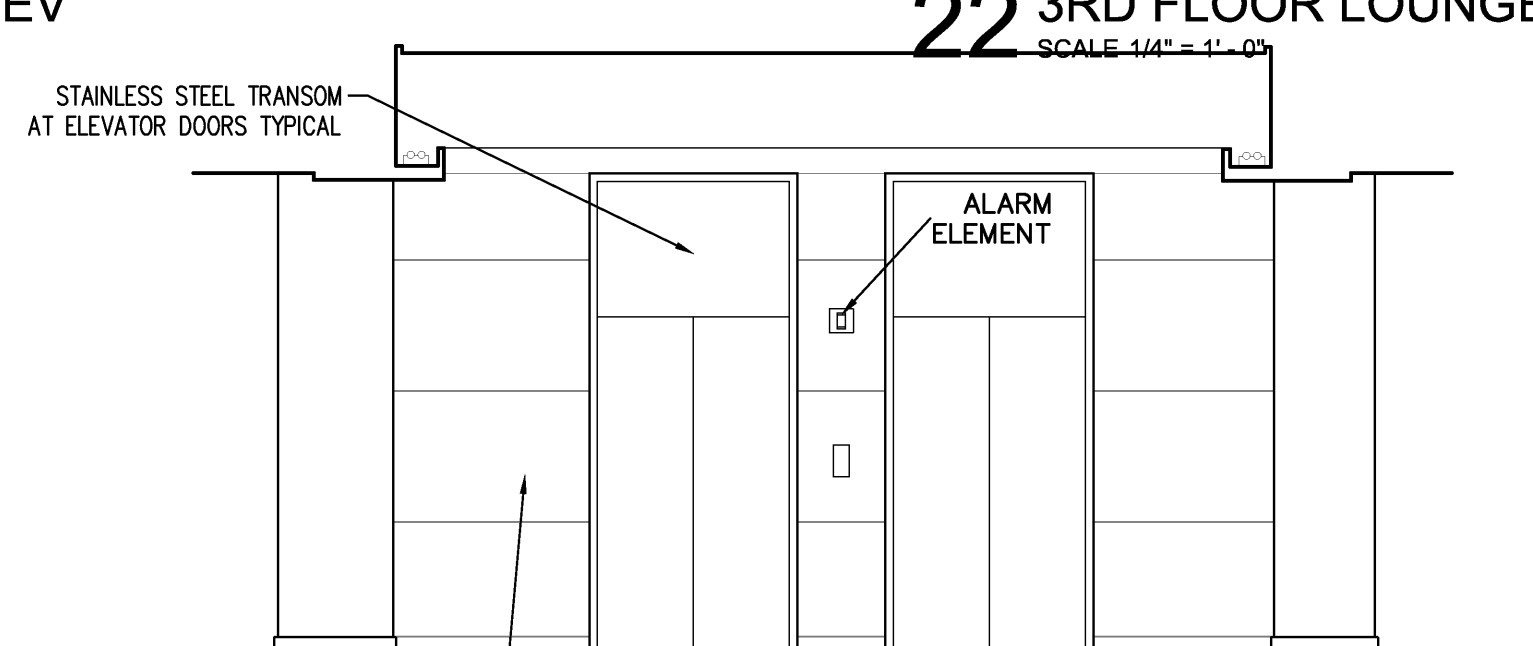
22 3RD FLOOR LOUNGE ELEV
 SCALE 1/4" = 1'-0"



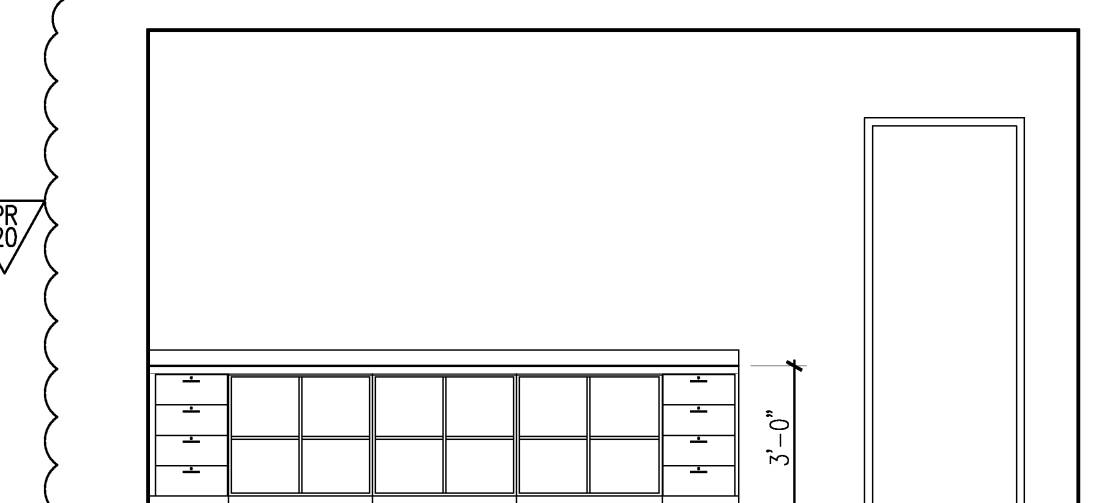
23 2ND FLOOR CORNER CLASSROOM ELEVATION
 SCALE 1/4" = 1'-0"



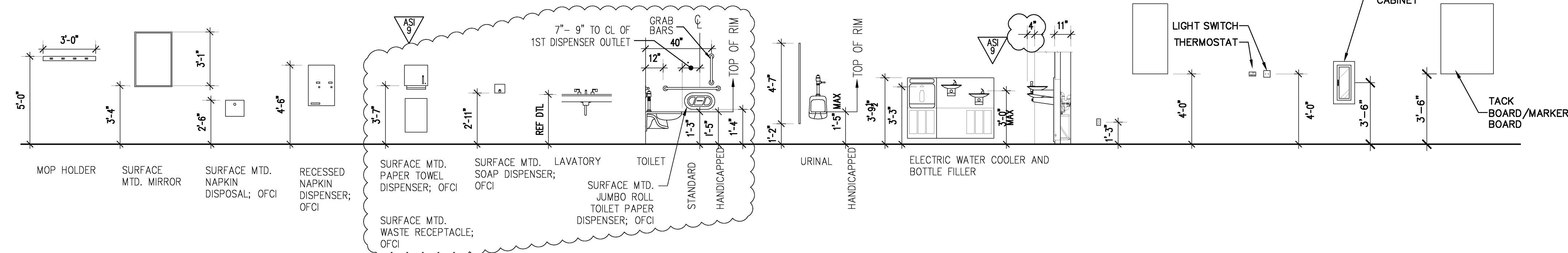
24 2ND FLOOR CORNER CLASSROOM ELEVATION
 SCALE 1/4" = 1'-0"



25 2ND-4TH FLOOR ELEVATOR
 SCALE 1/4" = 1'-0"



26 PASSAGE 1007 (South Elev)
 SCALE 1/4" = 1'-0"



SHEET REISSUED 07/14/14 (Millwork Rev)



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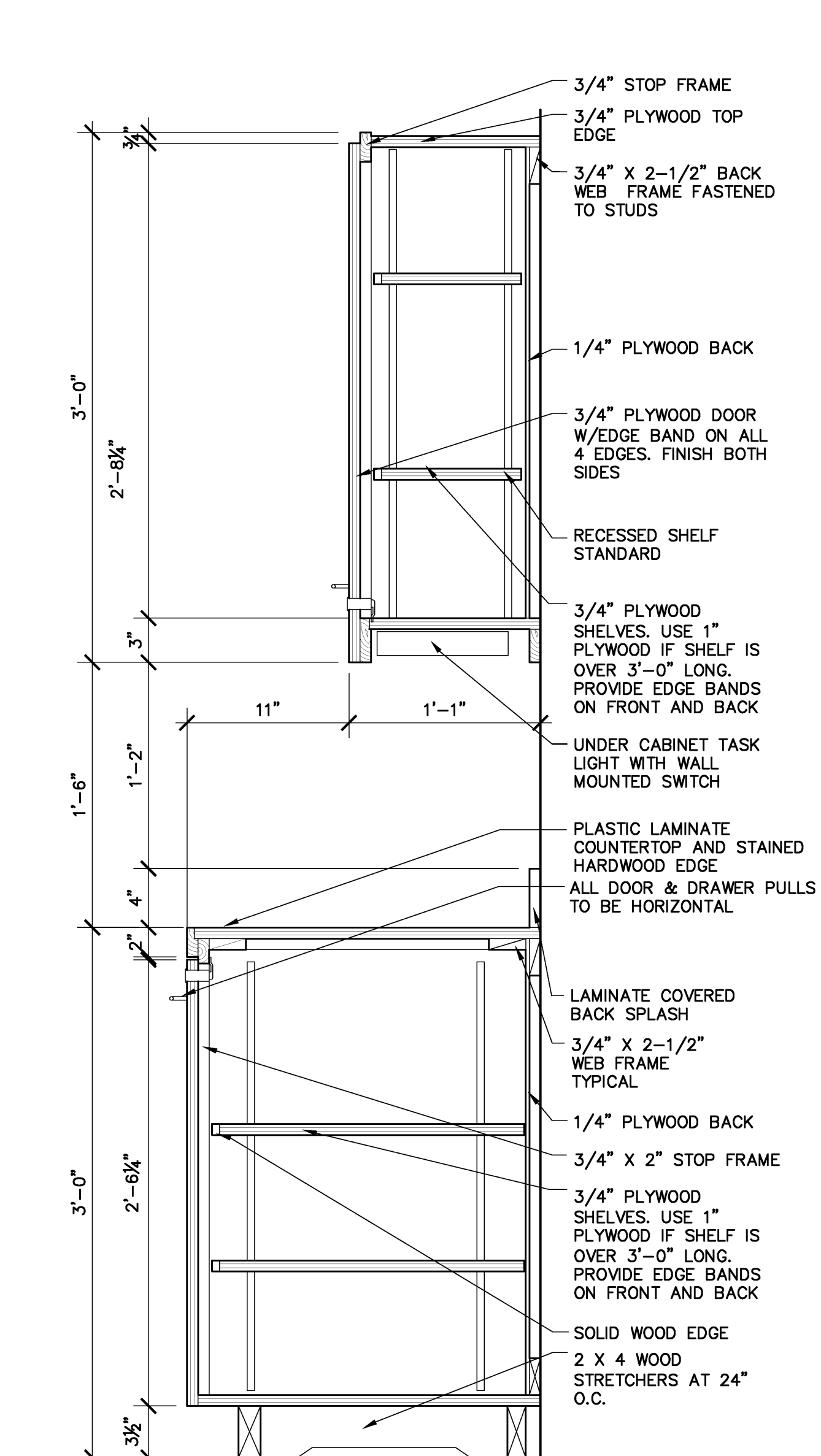


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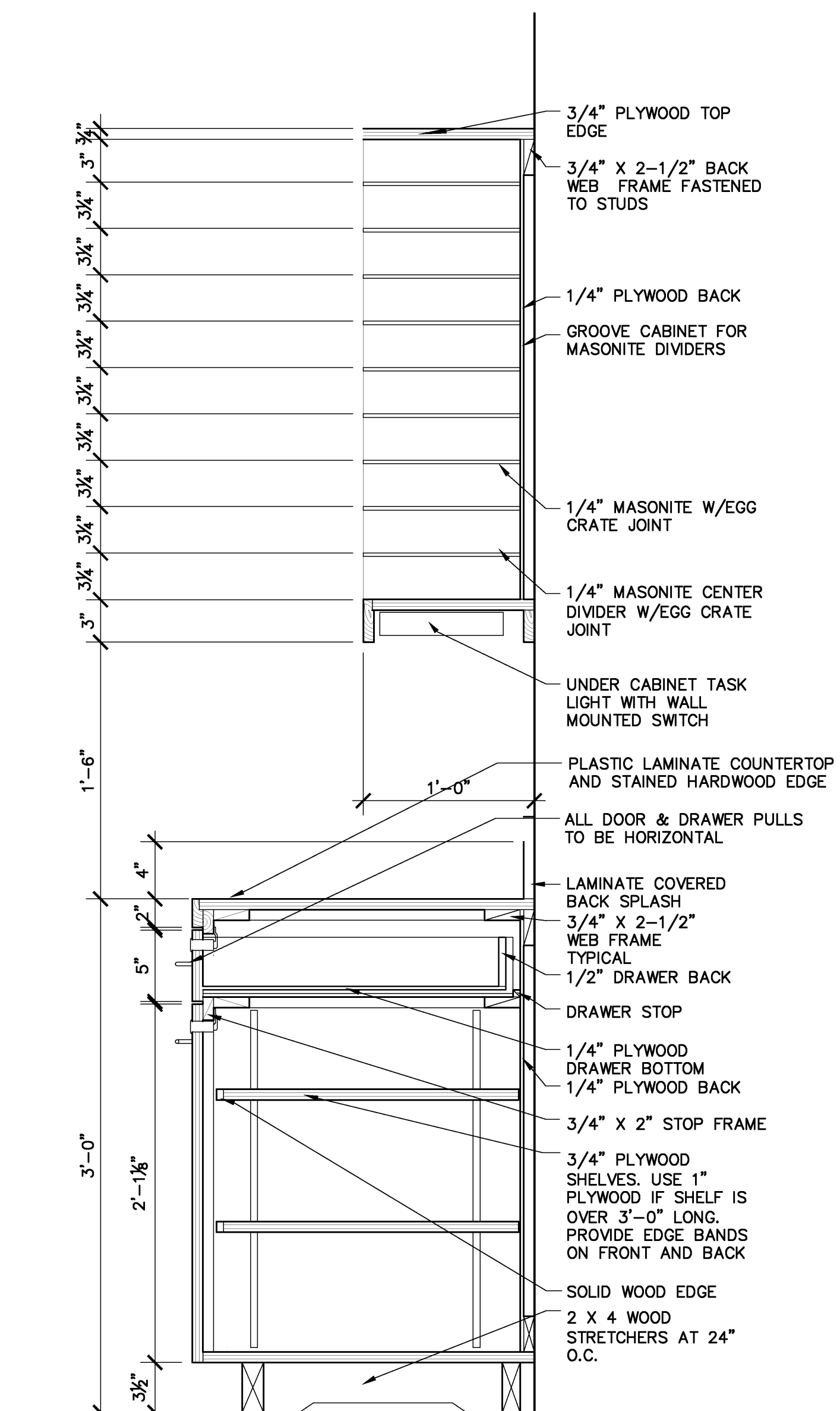
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: INTERIOR ELEVATIONS

Sheet Number: **A6.3**

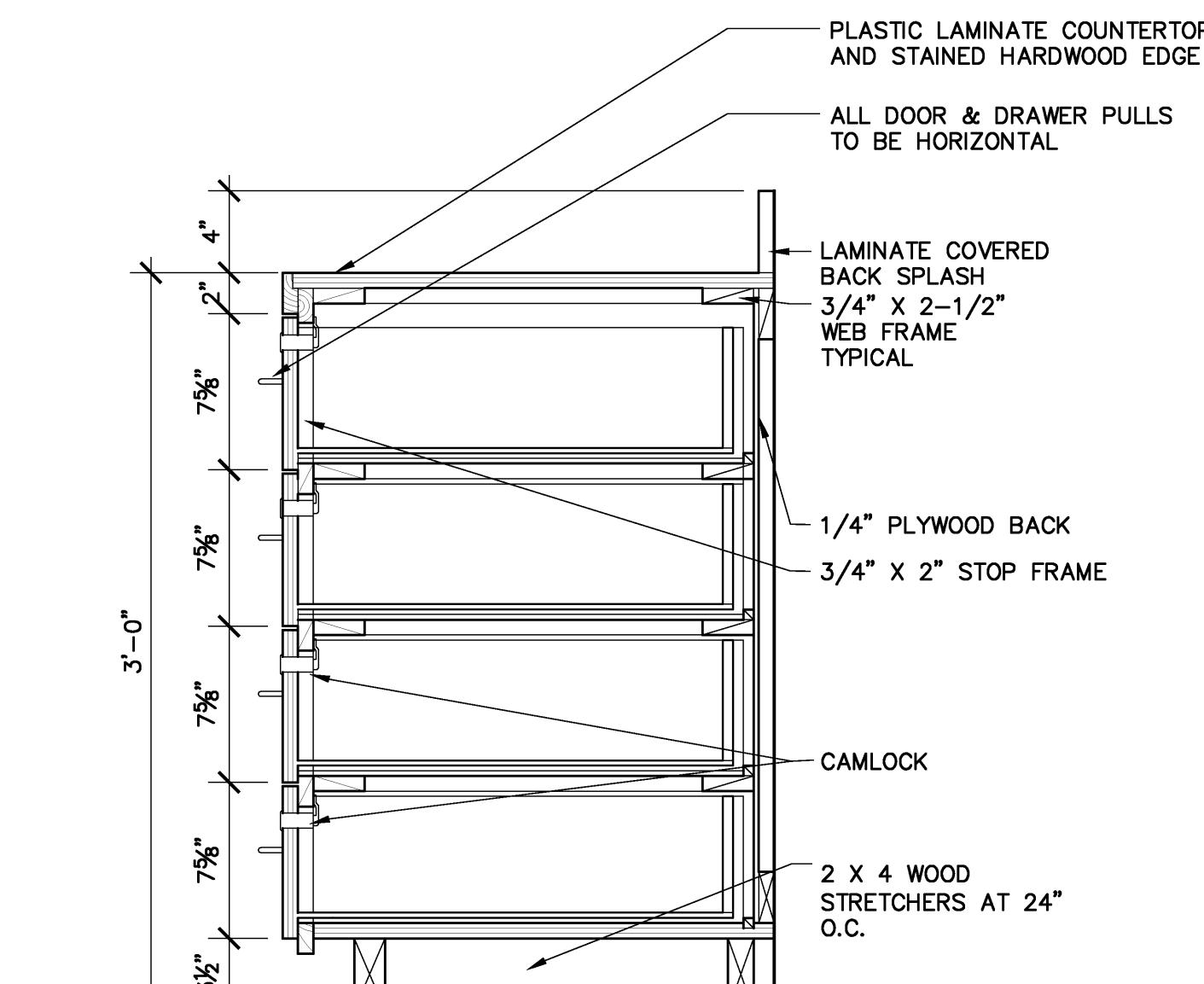
VERIFY SCALE
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 ORIGINAL DRAWING.
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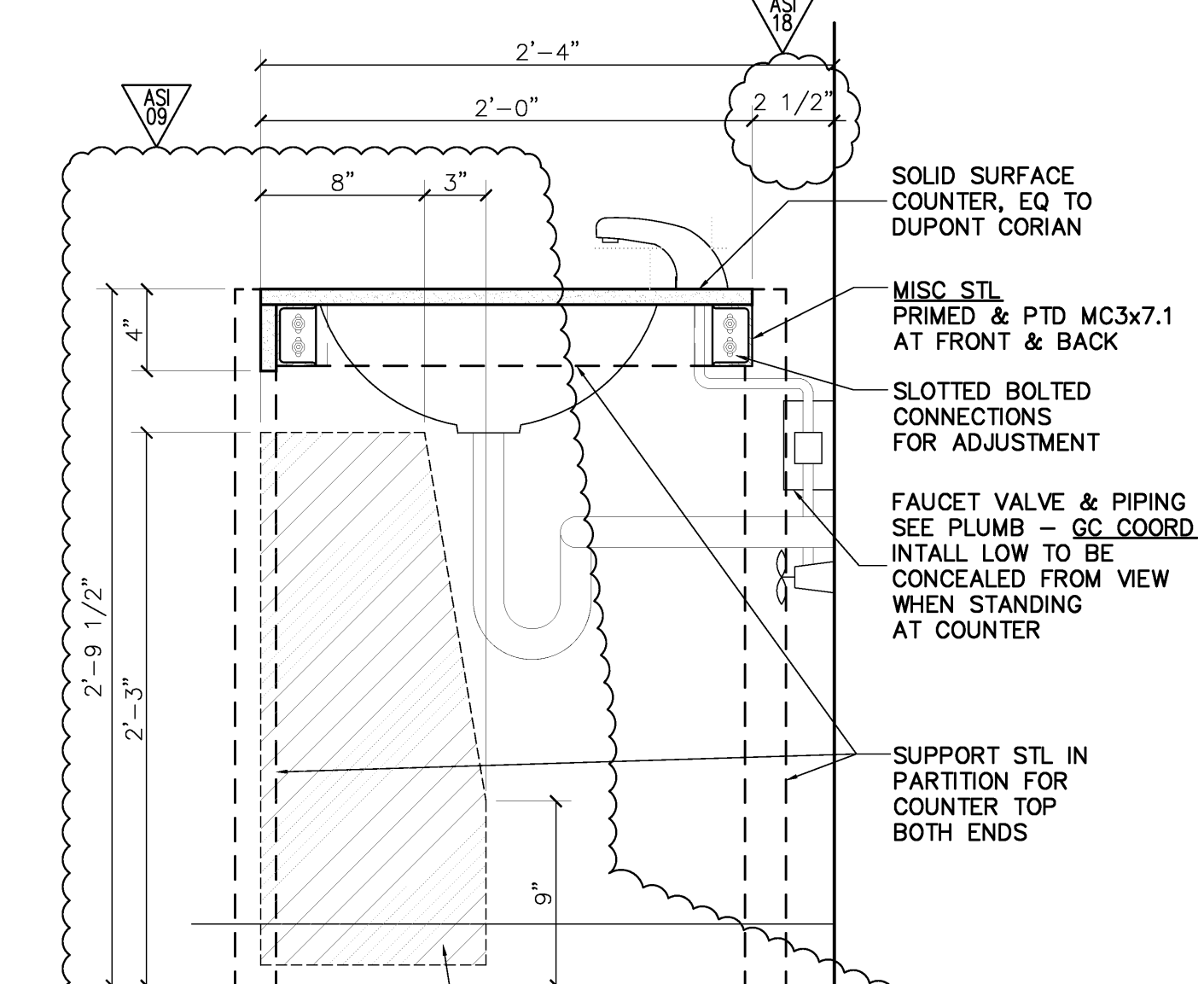
1 MILLWORK SECTION - B1, W1
SCALE 1 1/2" = 1'-0"



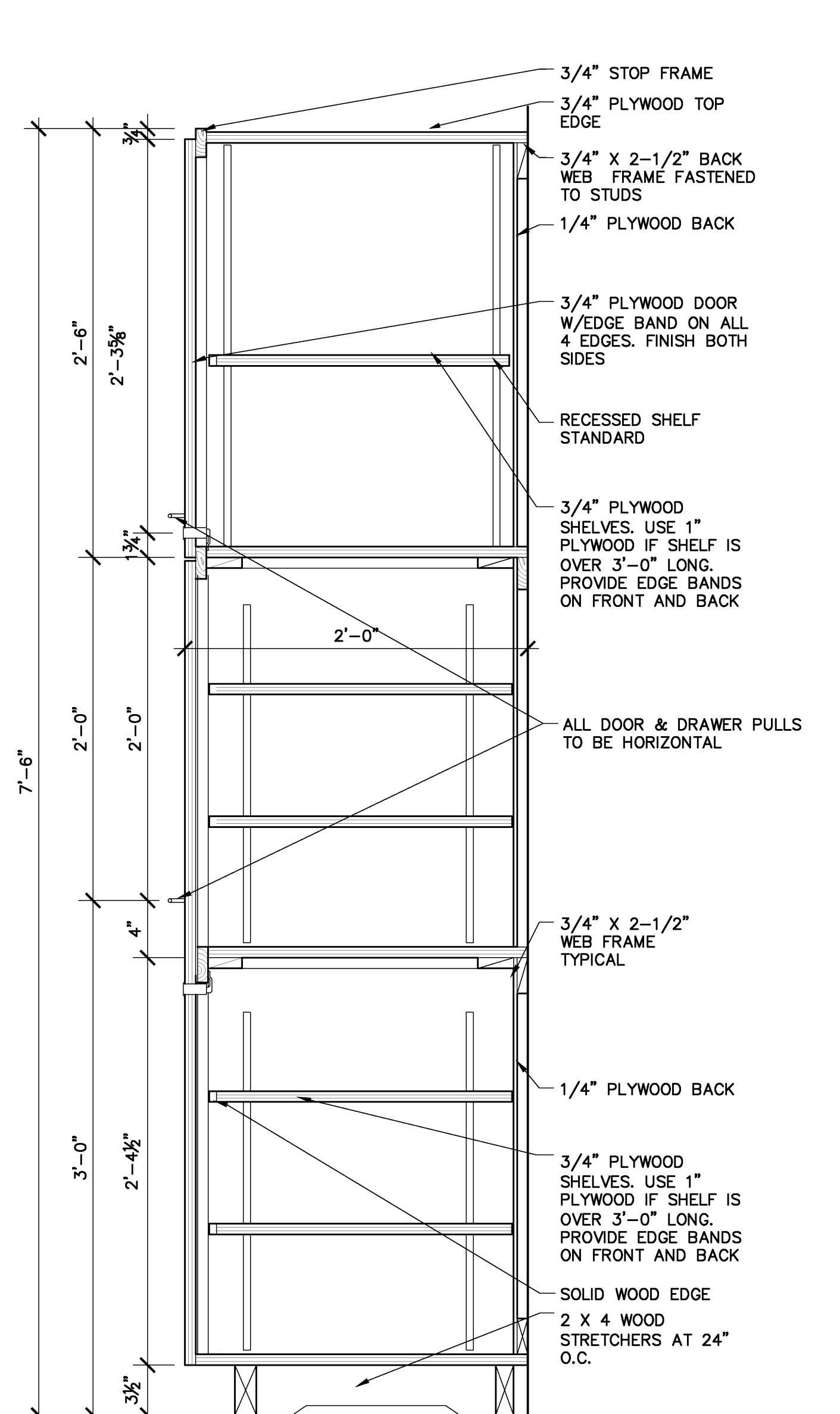
2 MILLWORK SECTION - B2, W2
SCALE 1 1/2" = 1'-0"



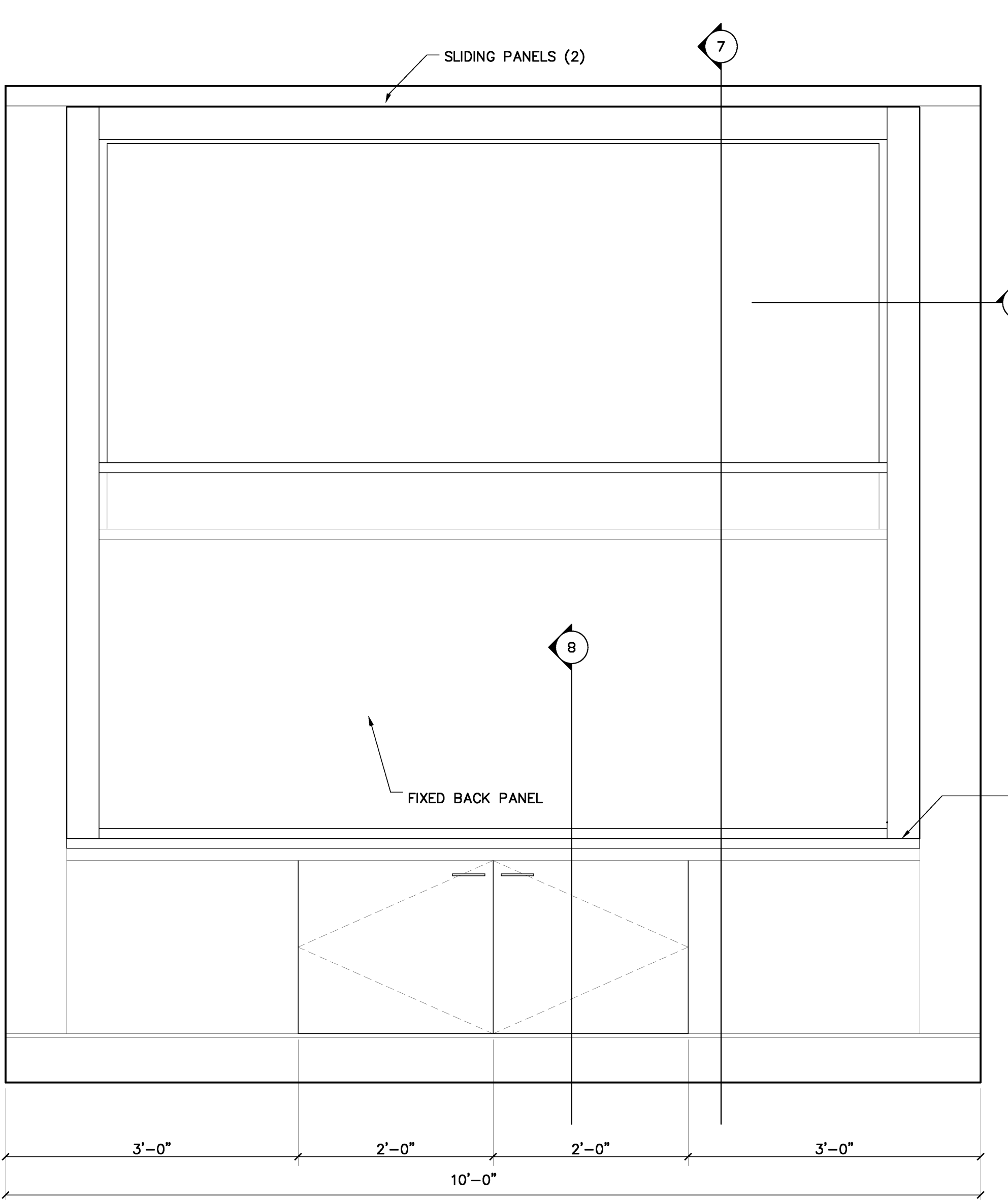
3 MILLWORK SECTION - B3
SCALE 1 1/2" = 1'-0"



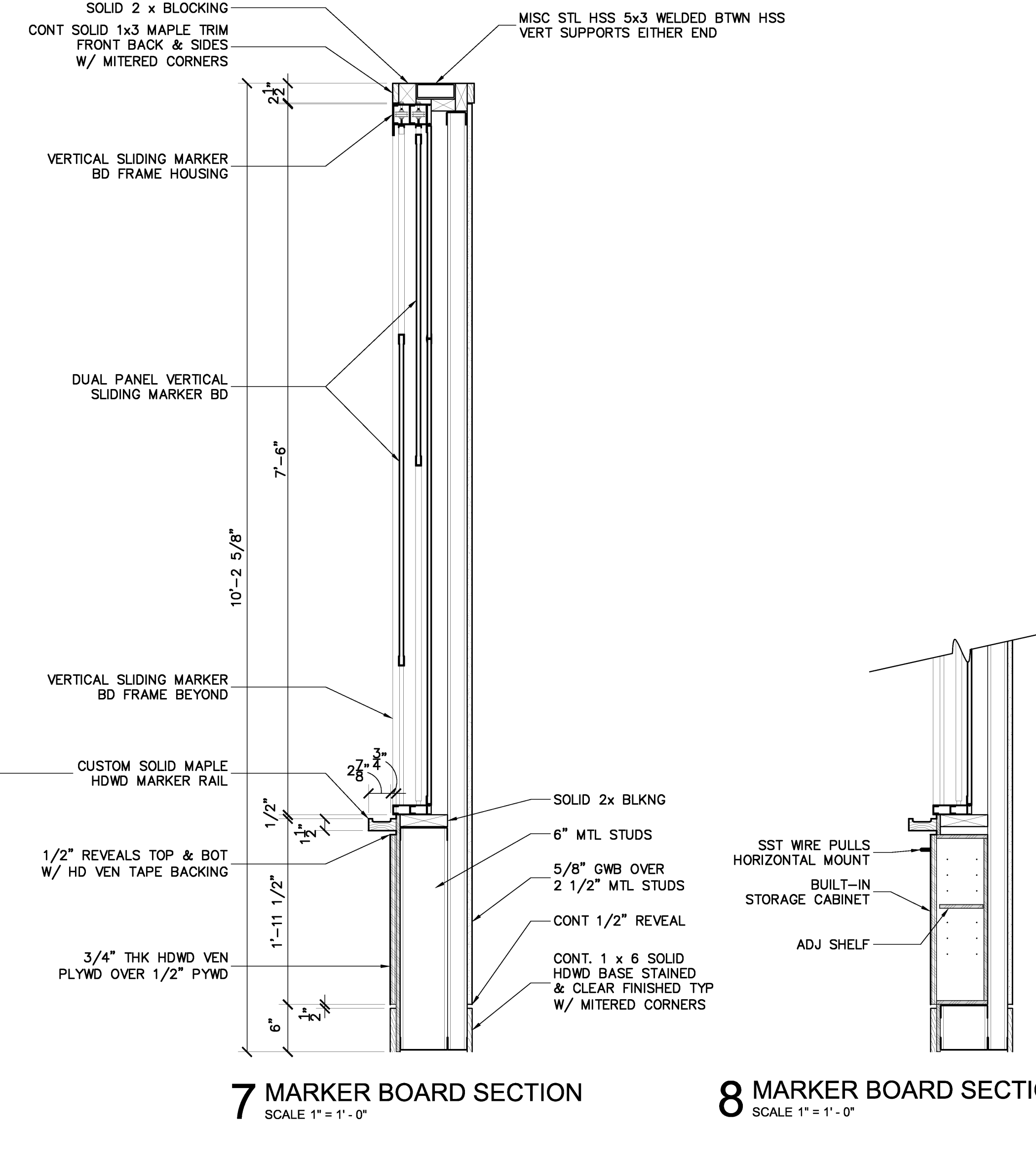
4 MILLWORK SECTION - B4
SCALE 1 1/2" = 1'-0"



5 MILLWORK SECTION - B5
SCALE 1 1/2" = 1'-0"

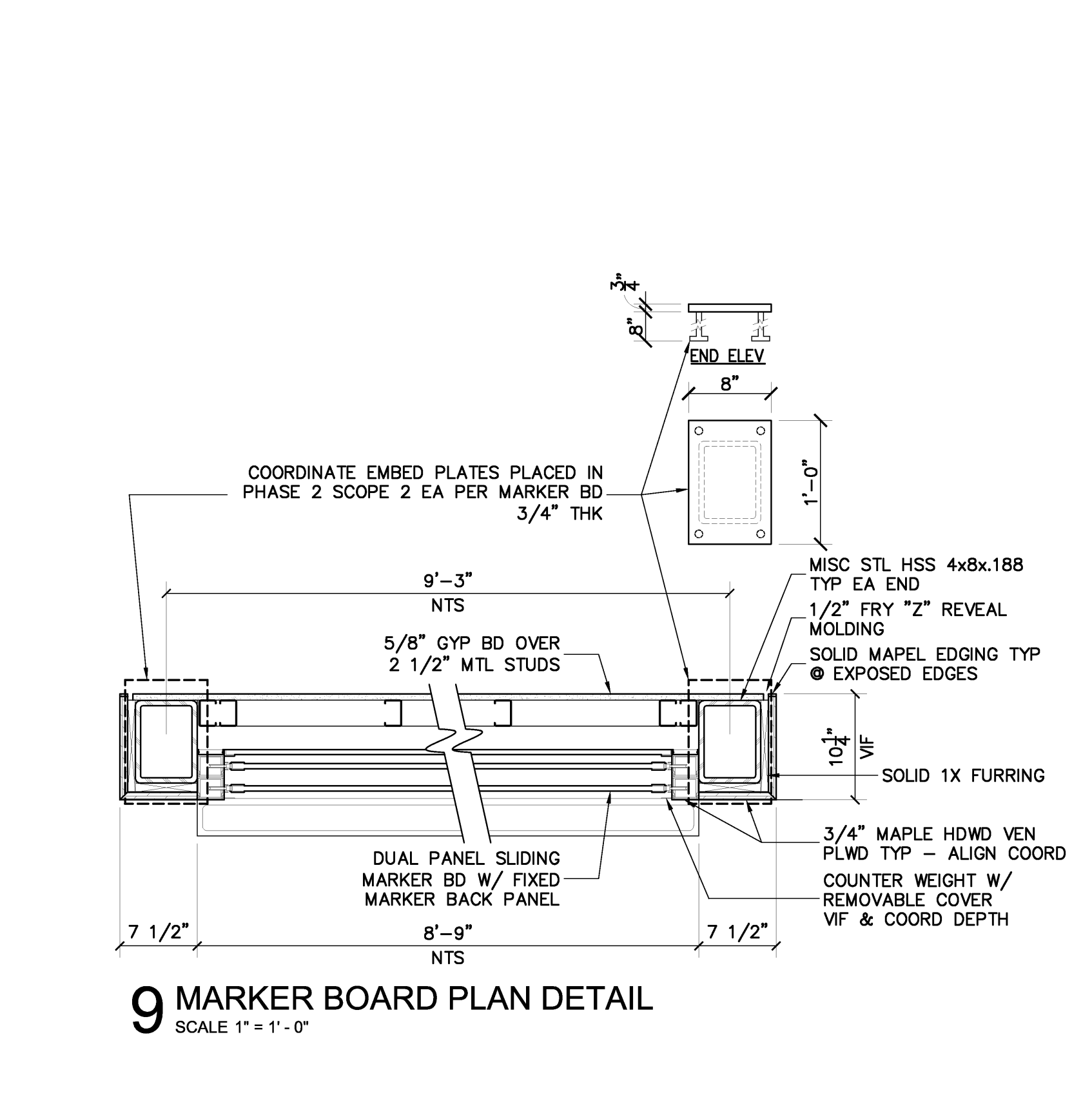


6 MARKER BOARD ELEVATION
SCALE 1" = 1'-0"

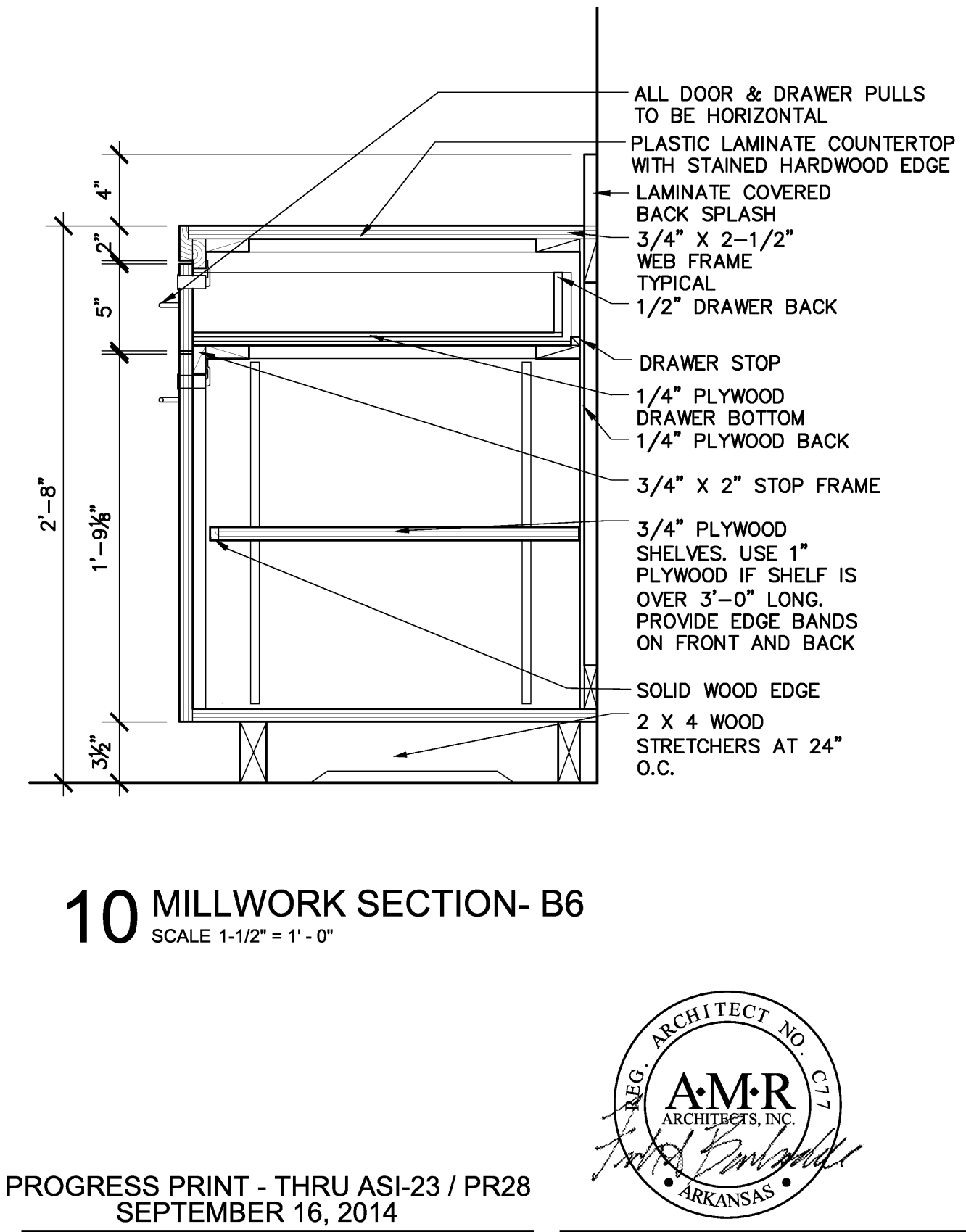


7 MARKER BOARD SECTION
SCALE 1" = 1'-0"

8 MARKER BOARD SECTION
SCALE 1" = 1'-0"



9 MARKER BOARD PLAN DETAIL
SCALE 1" = 1'-0"



10 MILLWORK SECTION - B6
SCALE 1 1/2" = 1'-0"

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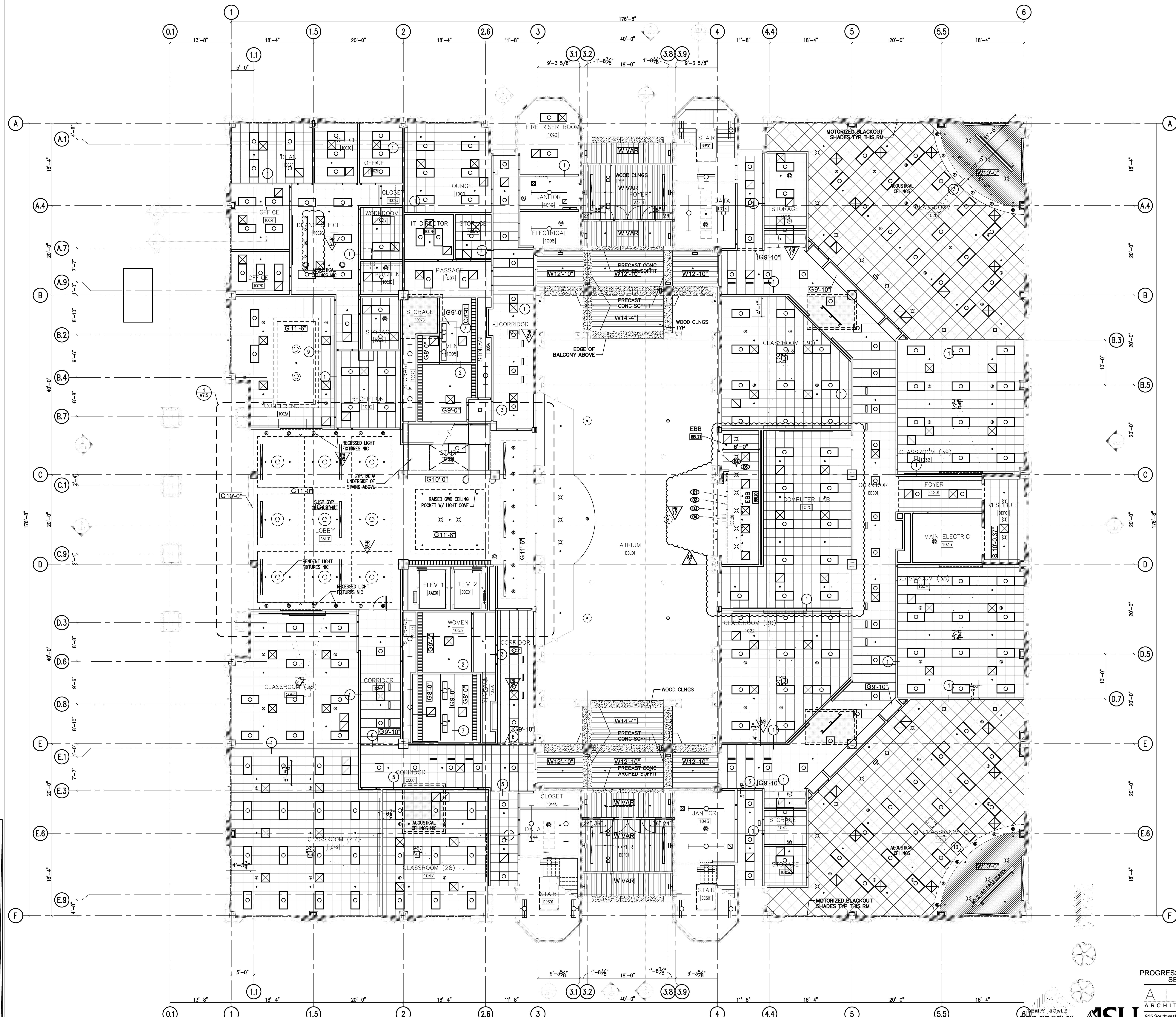
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: MILLWORK DETAILS

Sheet Number: **A6.4**





SYMBOL LEGEND:

- ⊠ RECESSED FLUORESCENT CAN LIGHT
- RECESSED MR16 LIGHT
- 2X2 RECESSED FLUORESCENT LIGHT
- 2X4 RECESSED FLUORESCENT LIGHT FIXTURE
- ▭ 1X4 RECESSED FLUORESCENT LIGHT FIXTURE
- FLUORESCENT STRIP FIXTURE
- TRACK LIGHT LIGHT
- PENDING MTD FLUORESCENT LIGHT FIXTURE
- WALL MTD FLUORESCENT LIGHT FIXTURE
- RECESSED WALL WASHING LIGHT FIXTURE
- PENDENT LIGHT FIXTURE
- SPRINKLER HEAD CENTER OF TILE
- SMOKE DETECTOR
- ⊠ EXIT LIGHT
- ⊠ CEILING AIR SUPPLY GRILL
- ⊠ CEILING AIR RETURN GRILL
- ⊠ CEILING ACCESS DOOR
- ▭ ACOUSTICAL TILE CEILING SYSTEM
- LINEAR DIFFUSER
- CEILING HEIGHT
- CEILING MATERIAL
- G = GWB
- T = 1" GLASS TILE
- W = 1x6 TONGUE & GROOVE MAPLE
- WINDOW SHADES SEE SPECIFICATIONS FOR TYPES IN ADDITION TO WINDOW SHADES AS DRAWN, PROVIDE WINDOW SHADES AT ALL OFFICE SIDELIGHTS AND INTERIOR OFFICE WINDOWS.

- NOTES:**
1. ALL CEILINGS ARE 10'-0" LAY-IN ACOUSTICAL TILE CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
 2. DIFFUSERS AND SPRINKLERS ARE SHOWN GRAPHICALLY FOR ALIGNMENT PURPOSES ONLY. WHERE QUANTITIES OR TYPES DIFFER THE CONTRACTOR IS TO MAINTAIN A UNIFORM LAYOUT BOTH IN SPACING AND SYMMETRY WITH RESPECT TO OTHER CEILING OBJECTS. IF THERE IS ANY QUESTION WHEN DEVIATING FROM THE RELATIONSHIPS AS ILLUSTRATED, NOTIFY THE ARCHITECT.
 3. IF THERE IS ANY QUESTION AS TO A CEILING OR SOFFIT HEIGHT, NOTIFY THE ARCHITECT.
 3. CEILING GRIDS HAVE BEEN LAID OUT SO THE PENDANT LIGHTS ARE MOUNTED IN THE CENTER OF A TILE, OR AS SHOWN ON A GRID LINE. REFER TO DRAWINGS FOR START POINTS.
 4. PRIOR TO INSTALLATION OF CEILING GRIDS CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING (ON A REGULARLY SCHEDULED SITE VISIT) WITH THE ARCHITECT TO CONFIRM LAYOUT.
 5. FOR SMOKE & HEAT DETECTORS AND EXIT SIGNS REFER TO ELECTRICAL DRAWINGS. ALL SMOKE & HEAT DETECTORS TO BE CENTERED IN TILES.
 6. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
 7. PROVIDE INSTRUT BRACING AND CEILING PROJECTOR MOUNTS AT ALL LOCATIONS AS ILLUSTRATED.
 8. CEILING DETAIL'S SPYK TO SHEET A7.6

RCP - 1st Flr
SCALE 1/8" = 1'-0"

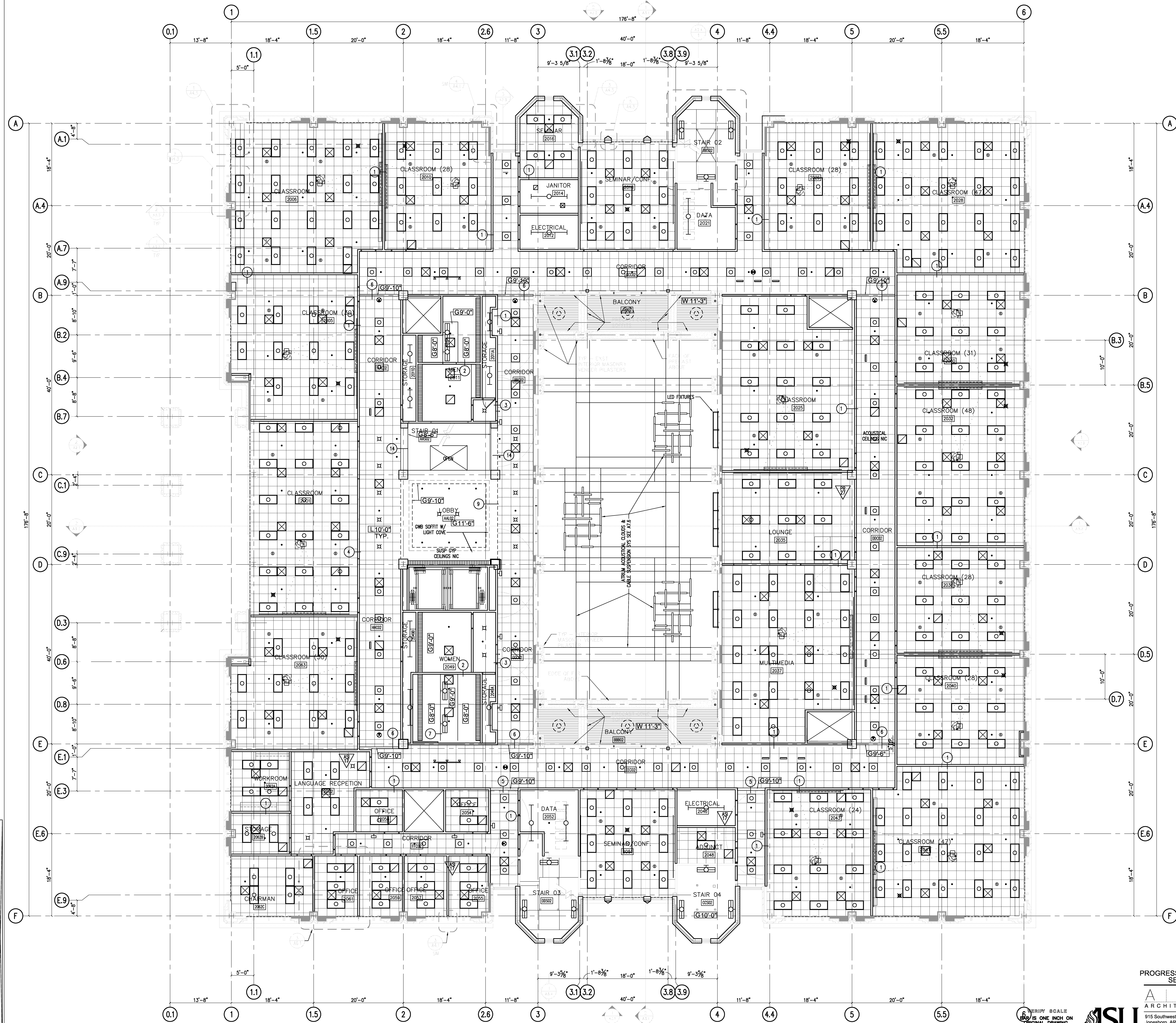
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: First Floor - Reflected Ceiling Plan
 Sheet Number: **A7.1**



- SYMBOL LEGEND:**
- ⊠ RECESSED FLUORESCENT CAN LIGHT
 - RECESSED MR16 LIGHT
 - 2X2 RECESSED FLUORESCENT LIGHT
 - 2X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - ▭ 1X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - FLUORESCENT STRIP FIXTURE
 - TRACK LIGHT LIGHT
 - PENDANT MTD FLUORESCENT LIGHT FIXTURE
 - WALL MTD FLUORESCENT LIGHT FIXTURE
 - RECESSED WALL WASHING LIGHT FIXTURE
 - PENDENT LIGHT FIXTURE
 - SPRINKLER HEAD CENTER OF TILE
 - SMOKE DETECTOR
 - ⊠ EXIT LIGHT
 - ⊠ CEILING AIR SUPPLY GRILL
 - ⊠ CEILING AIR RETURN GRILL
 - ⊠ CEILING ACCESS DOOR
 - ACOUSTICAL TILE CEILING SYSTEM
 - LINEAR DIFFUSER
 - CEILING HEIGHT
 - CEILING MATERIAL
 - G = GWB
 - T = 1" GLASS TILE
 - W = 1x6 TONGUE & GROOVE MAPLE
 - WINDOW SHADES SEE SPECIFICATIONS FOR TYPES IN ADDITION TO WINDOWS SHADES AS DRAWN, PROVIDE WINDOW SHADES AT ALL OFFICE SIDELIGHTS AND INTERIOR OFFICE WINDOWS.

- NOTES:**
1. ALL CEILINGS ARE 10'-0" LAY-IN ACOUSTICAL TILE CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
 2. DIFFUSERS AND SPRINKLERS ARE SHOWN GRAPHICALLY FOR ALIGNMENT PURPOSES ONLY. WHERE QUANTITIES OR TYPES DIFFER THE CONTRACTOR IS TO MAINTAIN A UNIFORM LAYOUT BOTH IN SPACING AND SYMMETRY WITH RESPECT TO OTHER CEILING OBJECTS. IF THERE IS ANY QUESTION WHEN DEVIATING FROM THE RELATIONSHIPS AS ILLUSTRATED, NOTIFY THE ARCHITECT.
 3. IF THERE IS ANY QUESTION AS TO A CEILING OR SOFFIT HEIGHT, NOTIFY THE ARCHITECT.
 3. CEILING GRIDS HAVE BEEN LAID OUT SO THE PENDANT LIGHTS ARE MOUNTED IN THE CENTER OF A TILE, OR AS SHOWN ON A GRID LINE. REFER TO DRAWINGS FOR START POINTS.
 4. PRIOR TO INSTALLATION OF CEILING GRIDS CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING (ON A REGULARLY SCHEDULED SITE VISIT) WITH THE ARCHITECT TO CONFIRM LAYOUT.
 5. FOR SMOKE & HEAT DETECTORS AND EXIT SIGNS REFER TO ELECTRICAL DRAWINGS. ALL SMOKE & HEAT DETECTORS TO BE CENTERED IN TILES.
 6. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
 7. PROVIDE UNISTRUT BRACING AND CEILING PROJECTOR MOUNTS AT ALL LOCATIONS AS ILLUSTRATED.
 8. CEILING DETAIL'S KEYED TO SHEET A7.6

RCP - 2nd Flr
SCALE 1/8" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



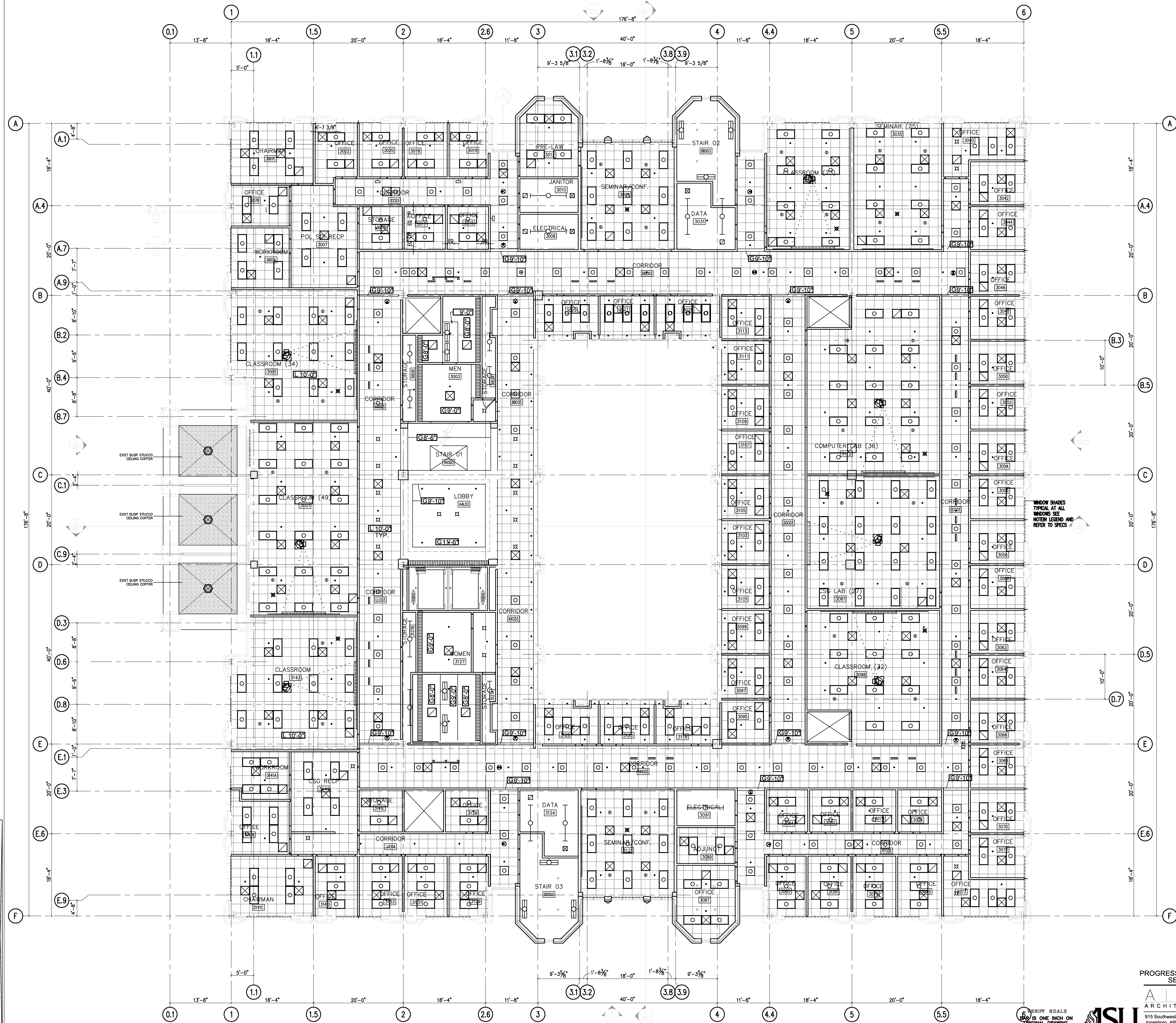
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SEPTEMBER 16, 2014

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201 E. Markham St. 150 Little Rock, AR 72201
501.375.0378 T 501.375.6801 F

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Second Floor - Reflected Ceiling Plan
Sheet Number: A7.2



915 Southwest Drive Jonesboro, AR 72401
870.933.6993 TEL.
870.933.6988 FAX.



- SYMBOL LEGEND:**
- ⊠ RECESSED FLUORESCENT CAN LIGHT
 - RECESSED MR16 LIGHT
 - 2X2 RECESSED FLUORESCENT LIGHT
 - 2X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - ▭ 1X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - FLUORESCENT STRIP FIXTURE
 - TRACK LIGHT LIGHT
 - PENDANT MTD FLUORESCENT LIGHT FIXTURE
 - WALL MTD FLUORESCENT LIGHT FIXTURE
 - RECESSED WALL WASHING LIGHT FIXTURE
 - PENDENT LIGHT FIXTURE
 - SPRINKLER HEAD CENTER OF TILE
 - SMOKE DETECTOR
 - ⊠ EXIT LIGHT
 - ⊠ CEILING AIR SUPPLY GRILL
 - ⊠ CEILING AIR RETURN GRILL
 - ⊠ CEILING ACCESS DOOR
 - ACOUSTICAL TILE CEILING SYSTEM
 - LINEAR DIFFUSER
 - CEILING HEIGHT
 - CEILING MATERIAL
 - G = GWB
 - T = 1" GLASS TILE
 - W = 1x6 TONGUE & GROOVE MAPLE
 - WINDOW SHADES SEE SPECIFICATIONS FOR TYPES IN ADDITION TO WINDOW SHADES AS DRAWN, PROVIDE WINDOW SHADES AT ALL OFFICE SIDELIGHTS AND INTERIOR OFFICE WINDOWS.

- NOTES:**
1. ALL CEILINGS ARE 10'-0" LAY-IN ACOUSTICAL TILE CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
 2. DIFFUSERS AND SPRINKLERS ARE SHOWN GRAPHICALLY FOR ALIGNMENT PURPOSES ONLY. WHERE QUANTITIES OR TYPES DIFFER THE CONTRACTOR IS TO MAINTAIN A UNIFORM LAYOUT BOTH IN SPACING AND SYMMETRY WITH RESPECT TO OTHER CEILING OBJECTS. IF THERE IS ANY QUESTION WHEN DEVIATING FROM THE RELATIONSHIPS AS ILLUSTRATED, NOTIFY THE ARCHITECT.
 3. IF THERE IS ANY QUESTION AS TO A CEILING OR SOFFIT HEIGHT, NOTIFY THE ARCHITECT.
 3. CEILING GRIDS HAVE BEEN LAID OUT SO THE PENDANT LIGHTS ARE MOUNTED IN THE CENTER OF A TILE, OR AS SHOWN ON A GRID LINE. REFER TO DRAWINGS FOR START POINTS.
 4. PRIOR TO INSTALLATION OF CEILING GRIDS CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING (ON A REGULARLY SCHEDULED SITE VISIT) WITH THE ARCHITECT TO CONFIRM LAYOUT.
 5. FOR SMOKE & HEAT DETECTORS AND EXIT SIGNS REFER TO ELECTRICAL DRAWINGS. ALL SMOKE & HEAT DETECTORS TO BE CENTERED IN TILES.
 6. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
 7. PROVIDE UNISTRUT BRACING AND CEILING PROJECTOR MOUNTS AT ALL LOCATIONS AS ILLUSTRATED.
 8. CEILING DETAIL'S KEYED TO SHEET A7.6

WINDOW SHADES TYPICAL AT ALL WINDOWS SEE NOTES LEGEND AND REFER TO SPECS

RCP - 3rd Flr
SCALE 1/8" = 1'-0"

VERIFY SCALE
AS SHOWN ON ONE INCH ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



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SEPTEMBER 16, 2014

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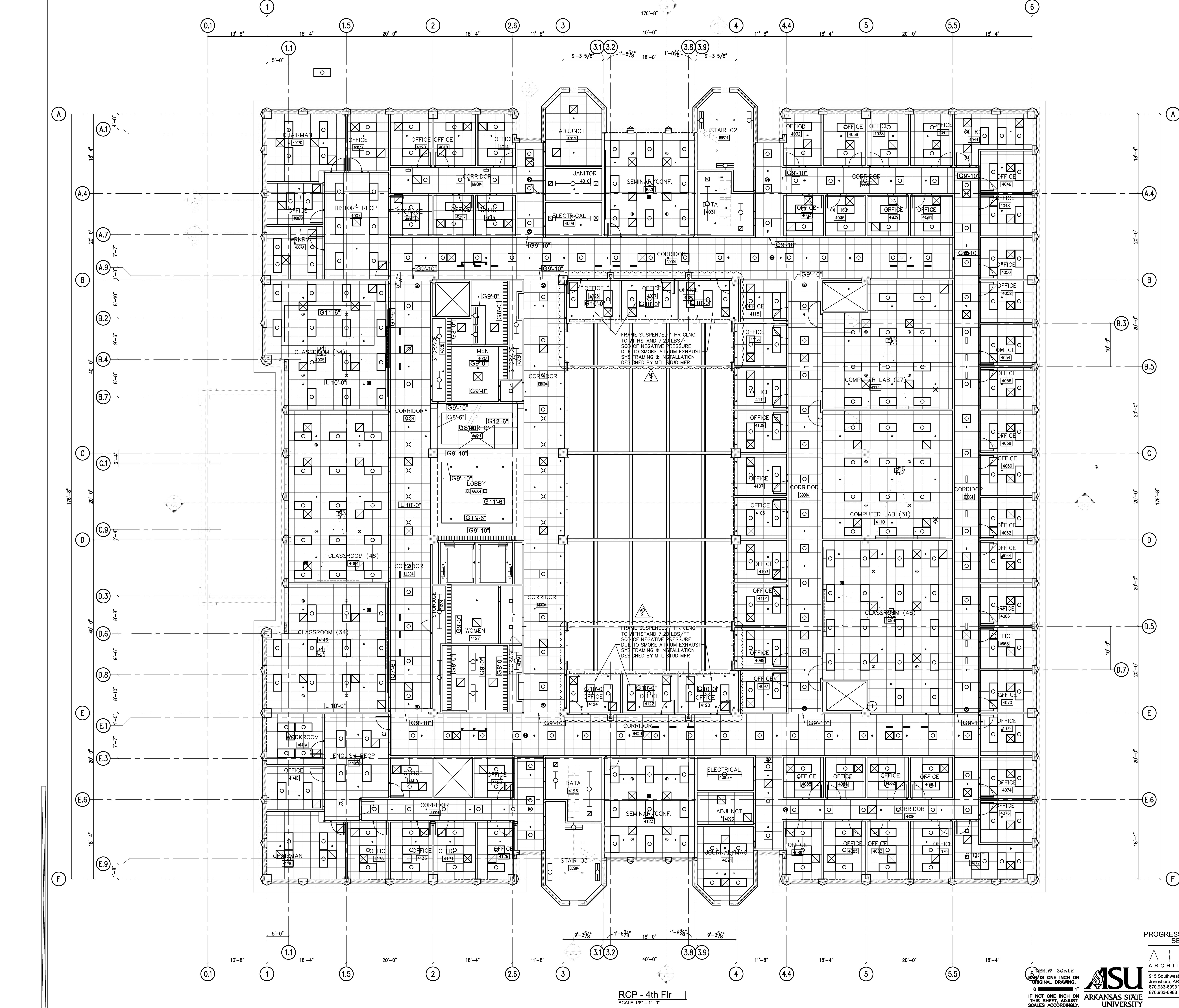
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Third Floor - Reflected Ceiling Plan
Sheet Number: **A7.3**

915 Southwest Drive
Jonesboro, AR 72401
870.933-6993 TEL.
870.933-6988 FAX.

AM-R
ARCHITECTS, INC.
ARCHITECT NO. 013

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Cahoon Stelling Studio



- SYMBOL LEGEND:**
- ⊞ RECESSED FLUORESCENT CAN LIGHT
 - RECESSED MR16 LIGHT
 - ⊞ 2X2 RECESSED FLUORESCENT LIGHT
 - ⊞ 2X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - ⊞ 1X4 RECESSED FLUORESCENT LIGHT FIXTURE
 - FLUORESCENT STRIP FIXTURE
 - TRACK LIGHT LIGHT
 - PENDANT MTD FLUORESCENT LIGHT FIXTURE
 - WALL MTD FLUORESCENT LIGHT FIXTURE
 - RECESSED WALL WASHING LIGHT FIXTURE
 - PENDENT LIGHT FIXTURE
 - SPRINKLER HEAD CENTER OF TILE
 - SMOKE DETECTOR
 - ⊞ EXIT LIGHT
 - ⊞ CEILING AIR SUPPLY GRILL
 - ⊞ CEILING AIR RETURN GRILL
 - ⊞ CEILING ACCESS DOOR
 - ⊞ ACOUSTICAL TILE CEILING SYSTEM
 - LINEAR DIFFUSER
 - CEILING HEIGHT
 - CEILING MATERIAL
 - G = GWB
 - T = 1" GLASS TILE
 - W = 1x6 TONGUE & GROOVE MAPLE
 - WINDOW SHADES SEE SPECIFICATIONS FOR TYPES IN ADDITION TO WINDOWS SHADES AS DRAWN, PROVIDE WINDOW SHADES AT ALL OFFICE SIDELIGHTS AND INTERIOR OFFICE WINDOWS.

- NOTES:**
1. ALL CEILINGS ARE 10'-0" LAY-IN ACOUSTICAL TILE CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
 2. DIFFUSERS AND SPRINKLERS ARE SHOWN GRAPHICALLY FOR ALIGNMENT PURPOSES ONLY. WHERE QUANTITIES OR TYPES DIFFER THE CONTRACTOR IS TO MAINTAIN A UNIFORM LAYOUT BOTH IN SPACING AND SYMMETRY WITH RESPECT TO OTHER CEILING OBJECTS. IF THERE IS ANY QUESTION WHEN DEVIATING FROM THE RELATIONSHIPS AS ILLUSTRATED, NOTIFY THE ARCHITECT.
 3. IF THERE IS ANY QUESTION AS TO A CEILING OR SOFFIT HEIGHT, NOTIFY THE ARCHITECT.
 3. CEILING GRIDS HAVE BEEN LAID OUT SO THE PENDANT LIGHTS ARE MOUNTED IN THE CENTER OF A TILE, OR AS SHOWN ON A GRID LINE. REFER TO DRAWINGS FOR START POINTS.
 4. PRIOR TO INSTALLATION OF CEILING GRIDS CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING (ON A REGULARLY SCHEDULED SITE VISIT) WITH THE ARCHITECT TO CONFIRM LAYOUT.
 5. FOR SMOKE & HEAT DETECTORS AND EXIT SIGNS REFER TO ELECTRICAL DRAWINGS. ALL SMOKE & HEAT DETECTORS TO BE CENTERED IN TILES.
 6. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
 7. PROVIDE UNISTRUT BRACING AND CEILING PROJECTOR MOUNTS AT ALL LOCATIONS AS ILLUSTRATED.
 8. CEILING DETAIL'S KEYED TO SHEET A7.6

RCP - 4th Fir
SCALE 1/8" = 1'-0"

GRAPHIC SCALE
1" = 10'-0"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



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SEPTEMBER 16, 2014

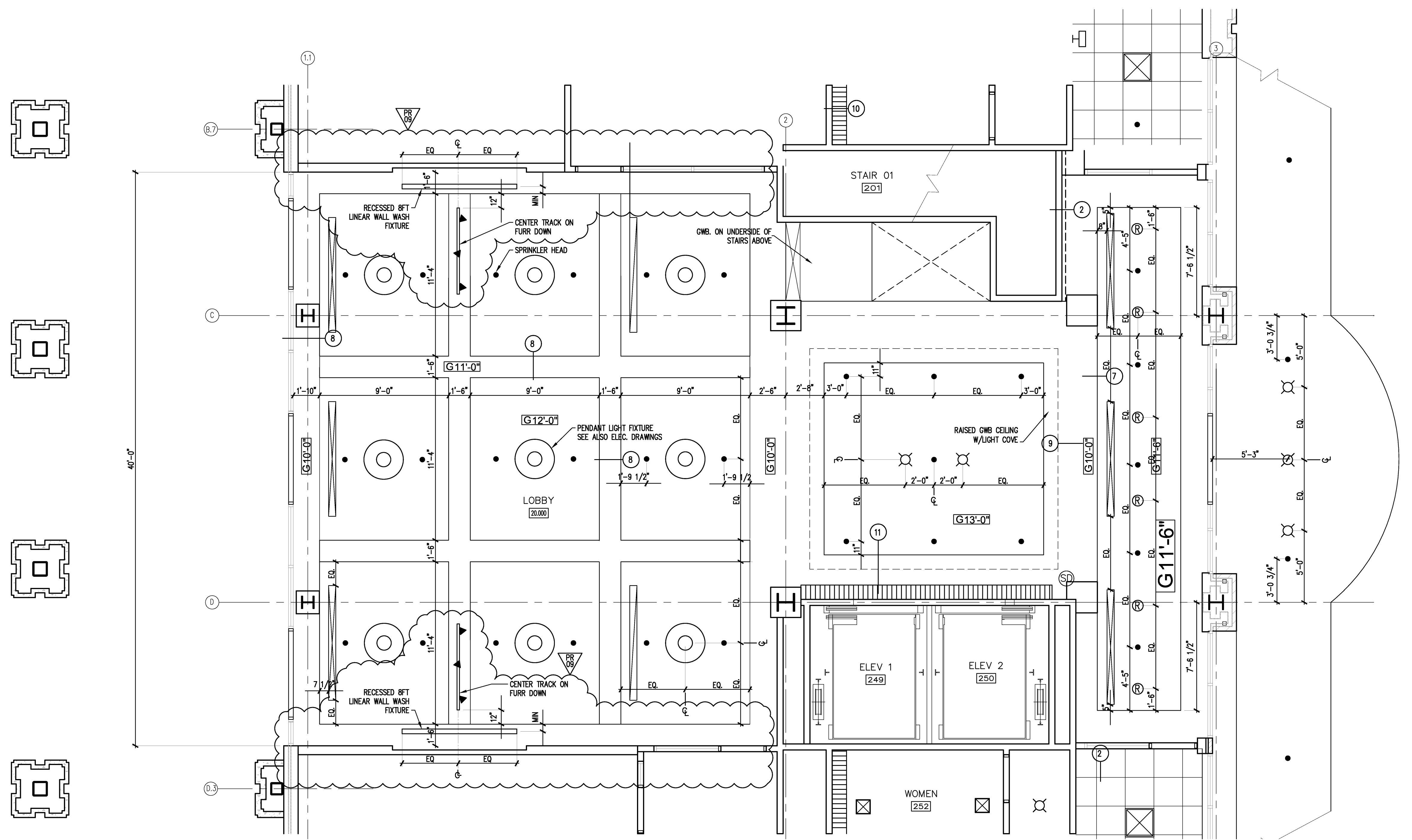
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Little Rock, AR 72201
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915 Southwest Drive
Jonesboro, AR 72401
870.933-6993 TEL.
870.933-6988 FAX.

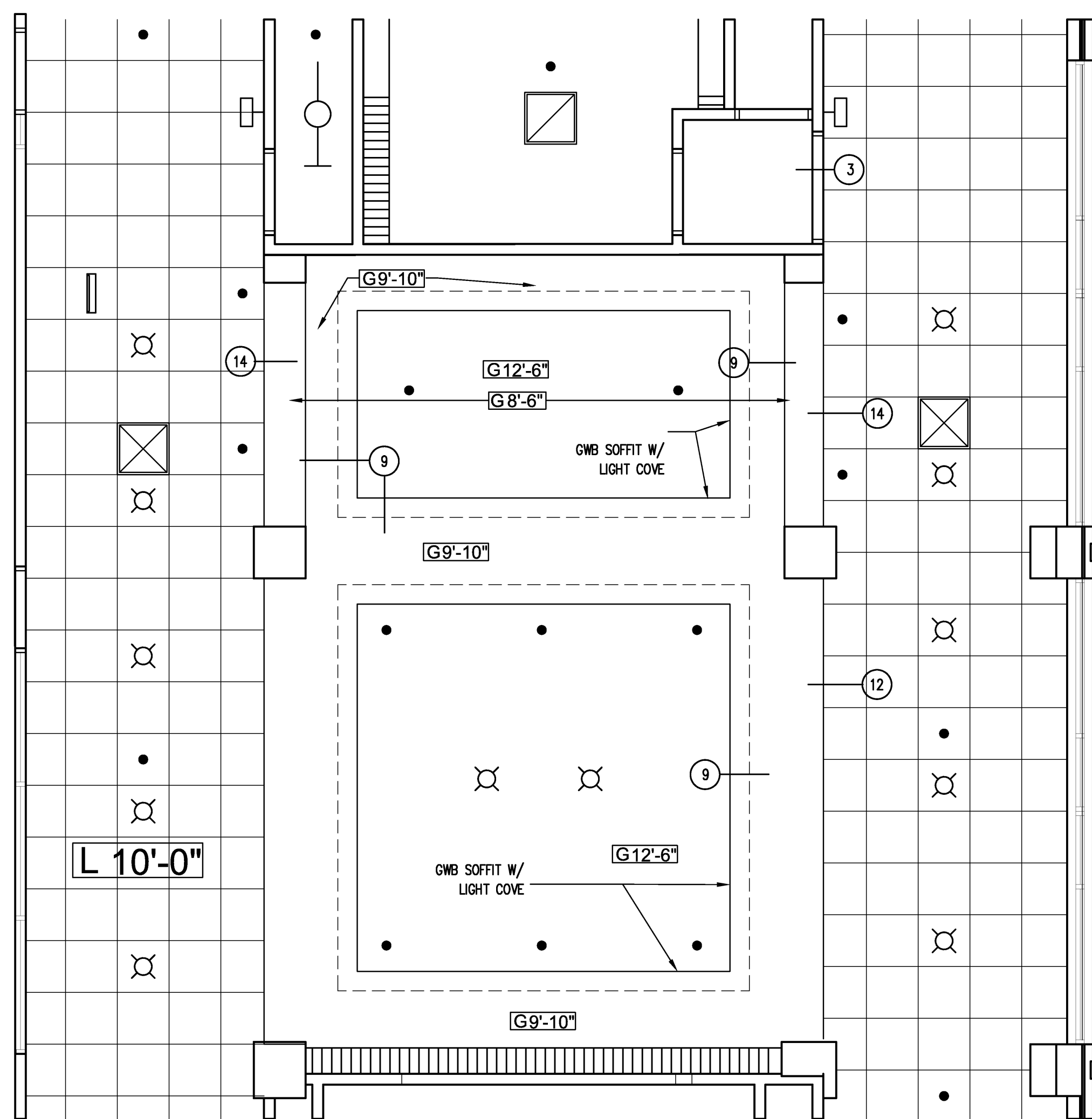
Cahoon Stelling Studio



Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013
Title: Fourth Floor - Reflected Ceiling Plan
Sheet Number: **A7.4**



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



2 ENLARGED 4TH FLOOR LOBBY REFLECTED CEILING PLAN
 SCALE 1/4" = 1'-0"
 2ND AND 3RD SIM.

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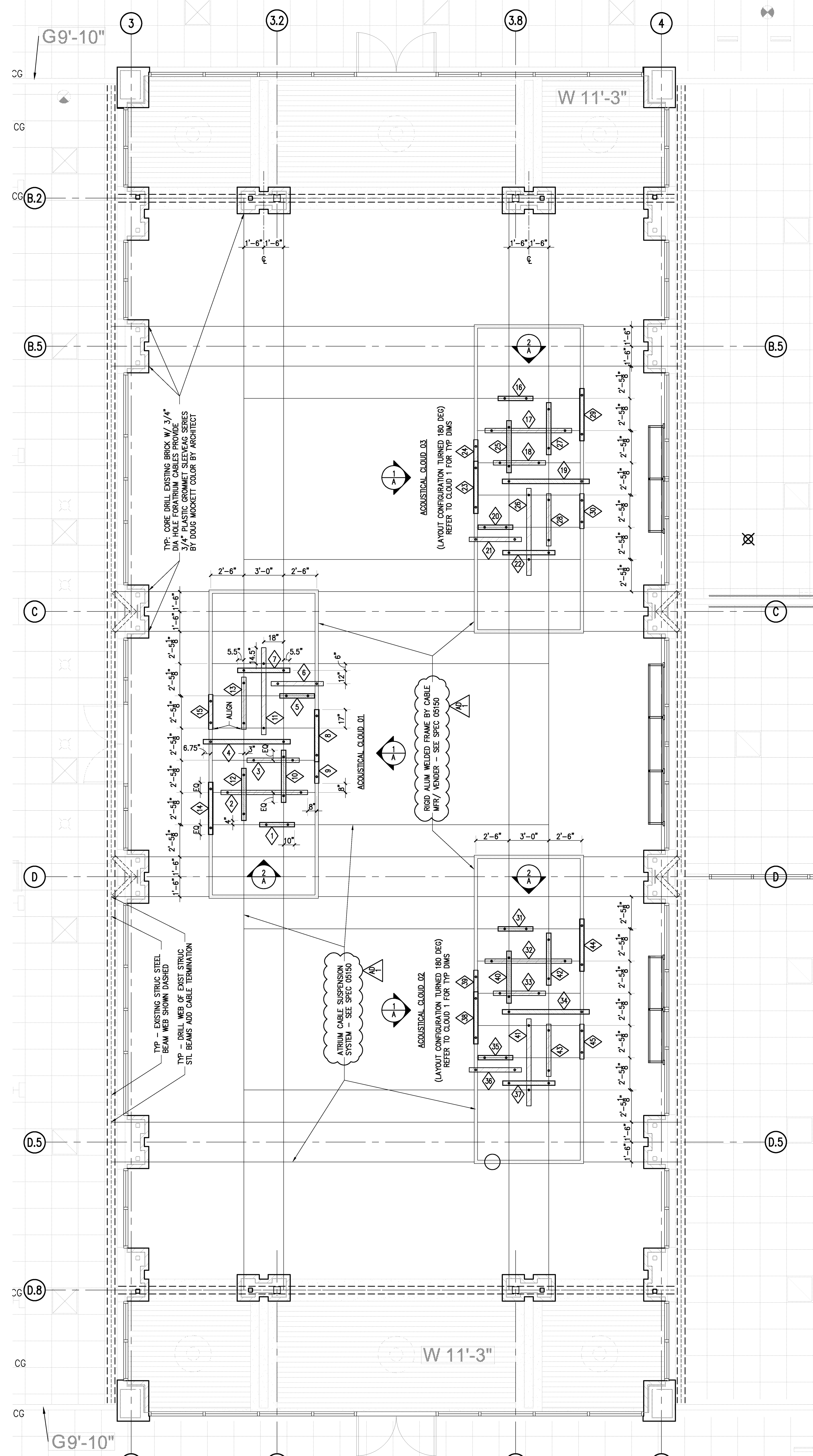
AMR ARCHITECTS INC.
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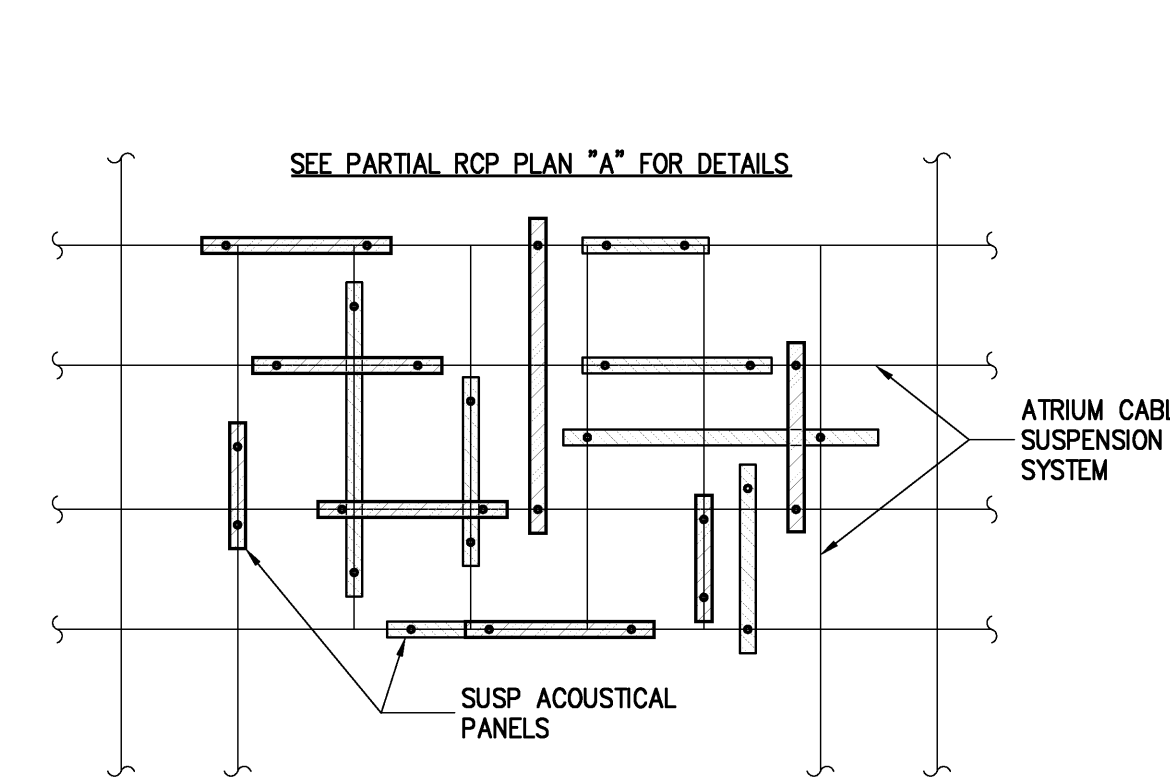


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 03, 2013
 Title: Enlarged - Reflected Ceiling Plans
 Sheet Number: **A7.5**

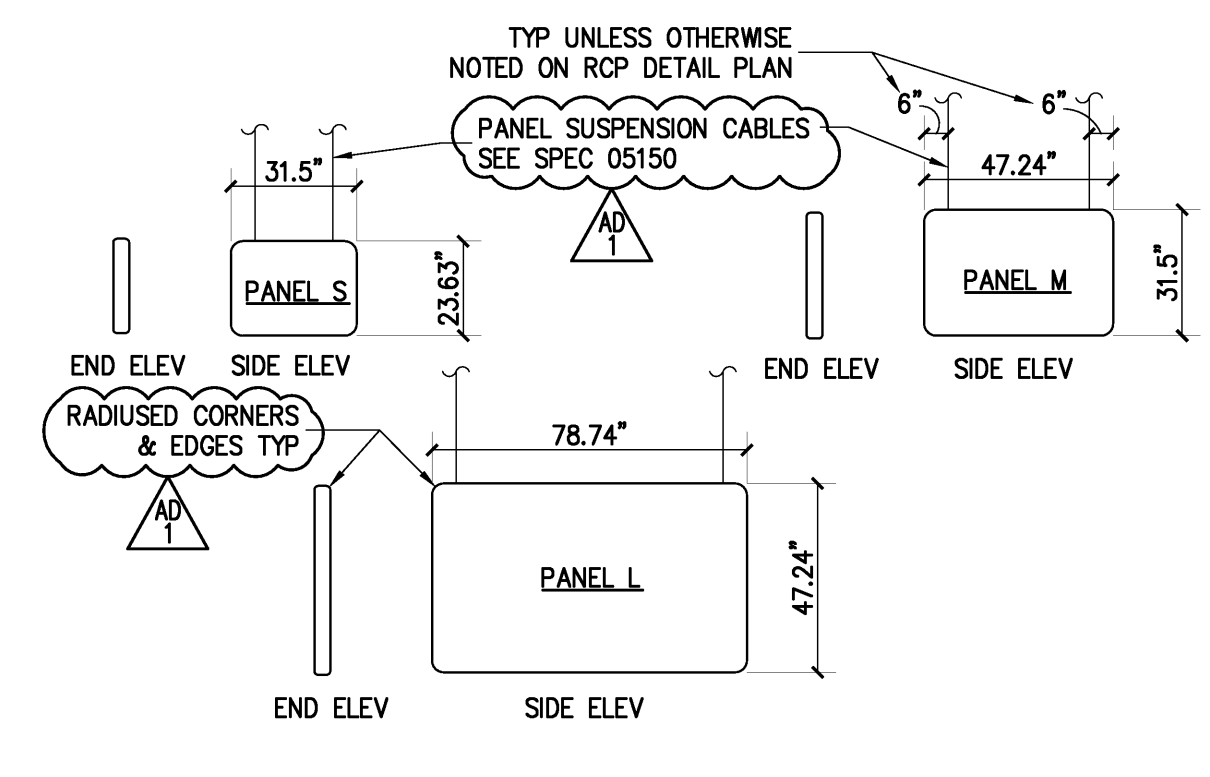
VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



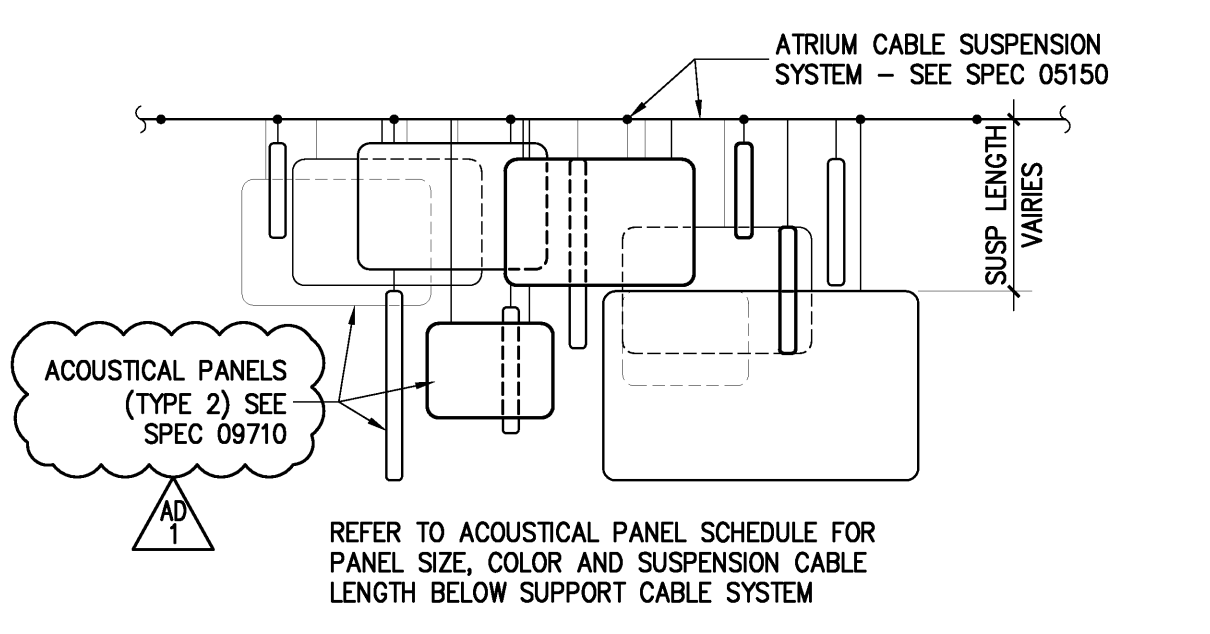
A Partial RCP Plan - 2nd Flr Atrium
SCALE 1/4" = 1'-0"



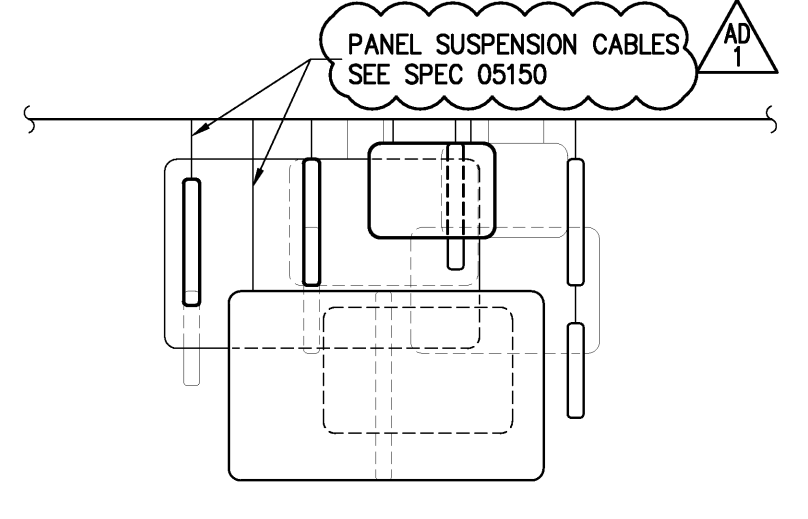
B Acoustical Cloud Plan
SCALE 1/4" = 1'-0"



C Acoustical Panel Elevations
SCALE 1/4" = 1'-0"



1 Acoustical Cloud Elev
SCALE 1/4" = 1'-0"



2 Acoustical Cloud Elev
SCALE 1/4" = 1'-0"

Panel	Size	Color	Susp Length	Notes
Acoustical Cloud 01				
1	S	4	6"	
2	L	1	44"	
3	M	2	48"	
4	L	5	10"	1
5	S	4	6"	
6	M	2	28"	
7	M	3	10"	1
8	M	3	10"	
9	S	4	52"	
10	M	2	6"	
11	L	1	44"	1
12	M	3	10"	
13	M	2	28"	
14	M	2	16"	
15	S	4	44"	
Acoustical Cloud 02				
16	S	4	6"	
17	L	2	44"	
18	M	2	48"	
19	L	5	10"	
20	S	4	6"	
21	M	3	28"	
22	M	3	10"	
23	M	4	10"	
24	S	2	52"	
25	M	3	6"	
26	L	1	44"	
27	M	3	10"	
28	M	2	28"	
29	M	2	16"	
30	S	4	44"	
Acoustical Cloud 03				
31	S	4	6"	
32	L	1	44"	
33	M	2	48"	
34	L	5	10"	
35	S	4	6"	
36	M	2	28"	
37	M	3	10"	
38	M	3	10"	
39	S	4	52"	
40	M	2	6"	
41	L	2	44"	
42	M	5	10"	
43	M	2	28"	
44	M	3	16"	
45	S	4	44"	

NOTES
1. SUSPENSION CABLE OFF SET FROM EDGE ATYPICAL - SEE RCP DETAIL A

3 Acoustical Panel Schedule
SCALE -



D Atrium Interior Rendering
SCALE -

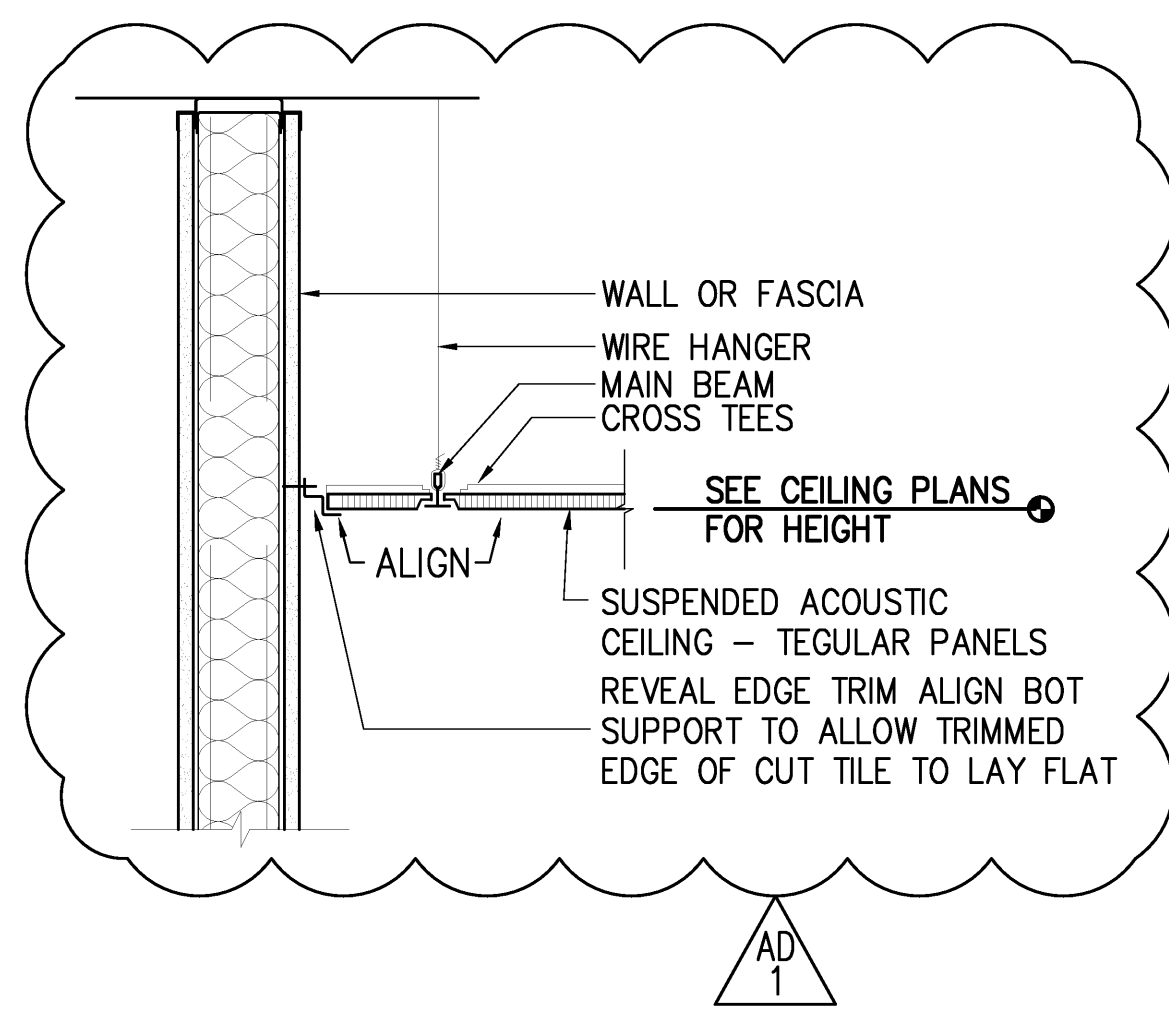
VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
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SCALES ACCORDINGLY.



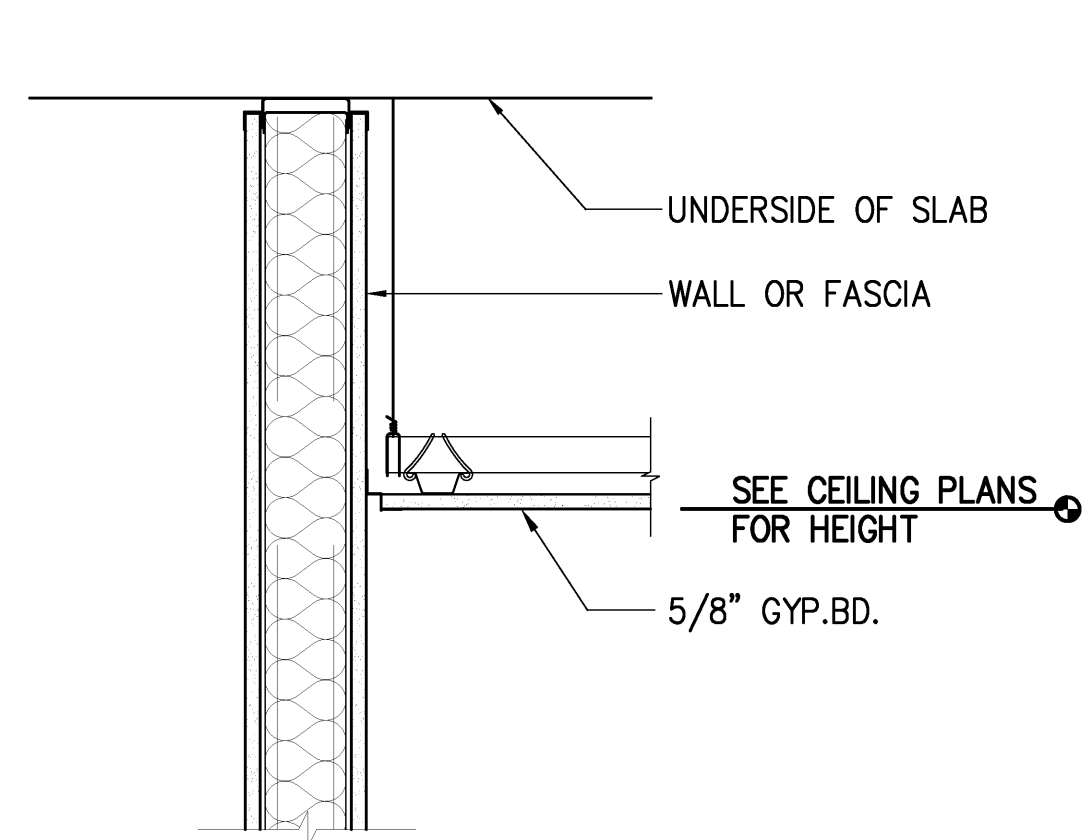
PROJECT: ASU - HUMANITIES & SOCIAL SCIENCES, PHASE 4 FINISH-OUT
DATE: OCTOBER 03, 2013
TITLE: SUSPENDED ACOUSTICAL PANEL SYSTEM RCP, PANEL LAYOUT & SCHEDULE
SHEET NUMBER: A7.6



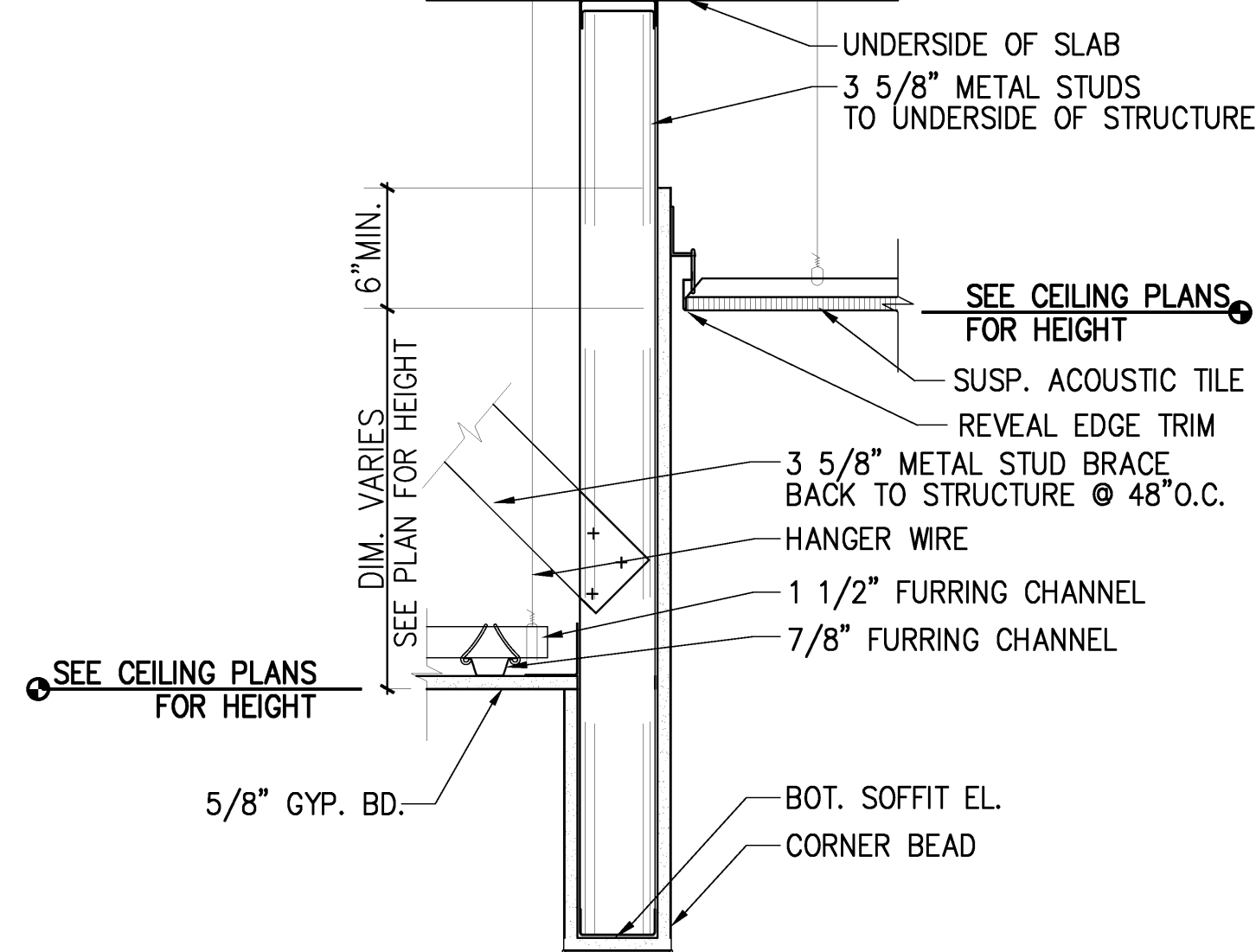
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Jonesboro, AR 72401
870.933.6993 TEL.
870.933.6988 FAX.



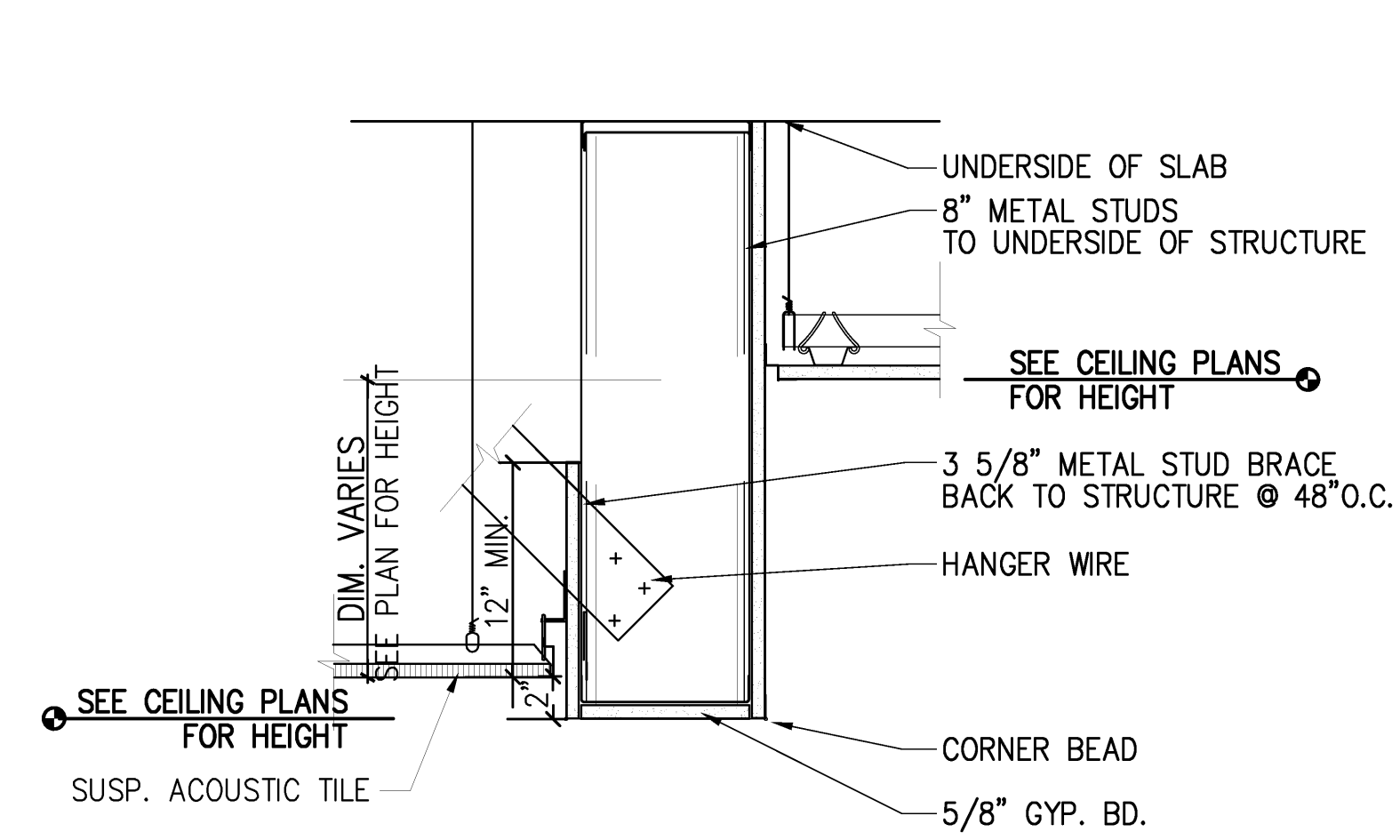
1 TYP. SUSP. ACOUSTIC TILE CEILING
SCALE 1 1/2" = 1'-0"



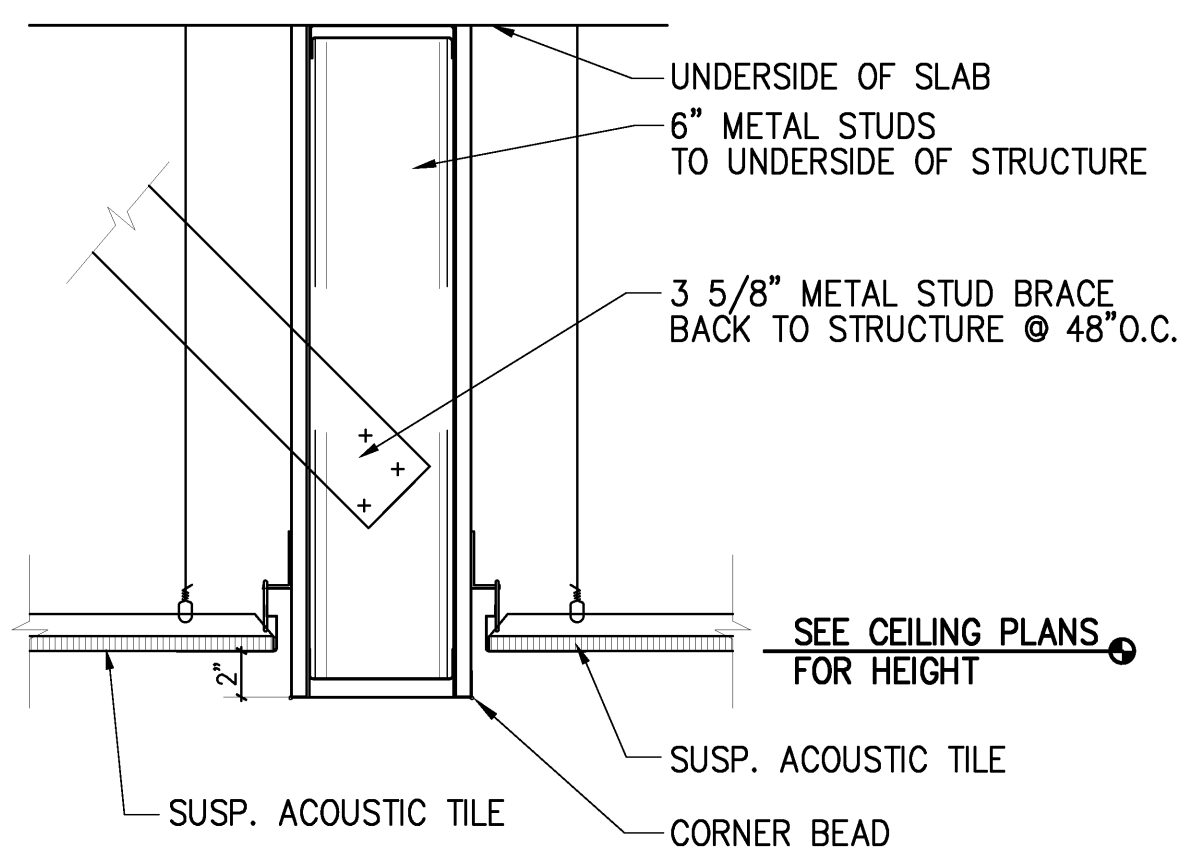
2 TYP. GYP. BD. CEILING
SCALE 1 1/2" = 1'-0"



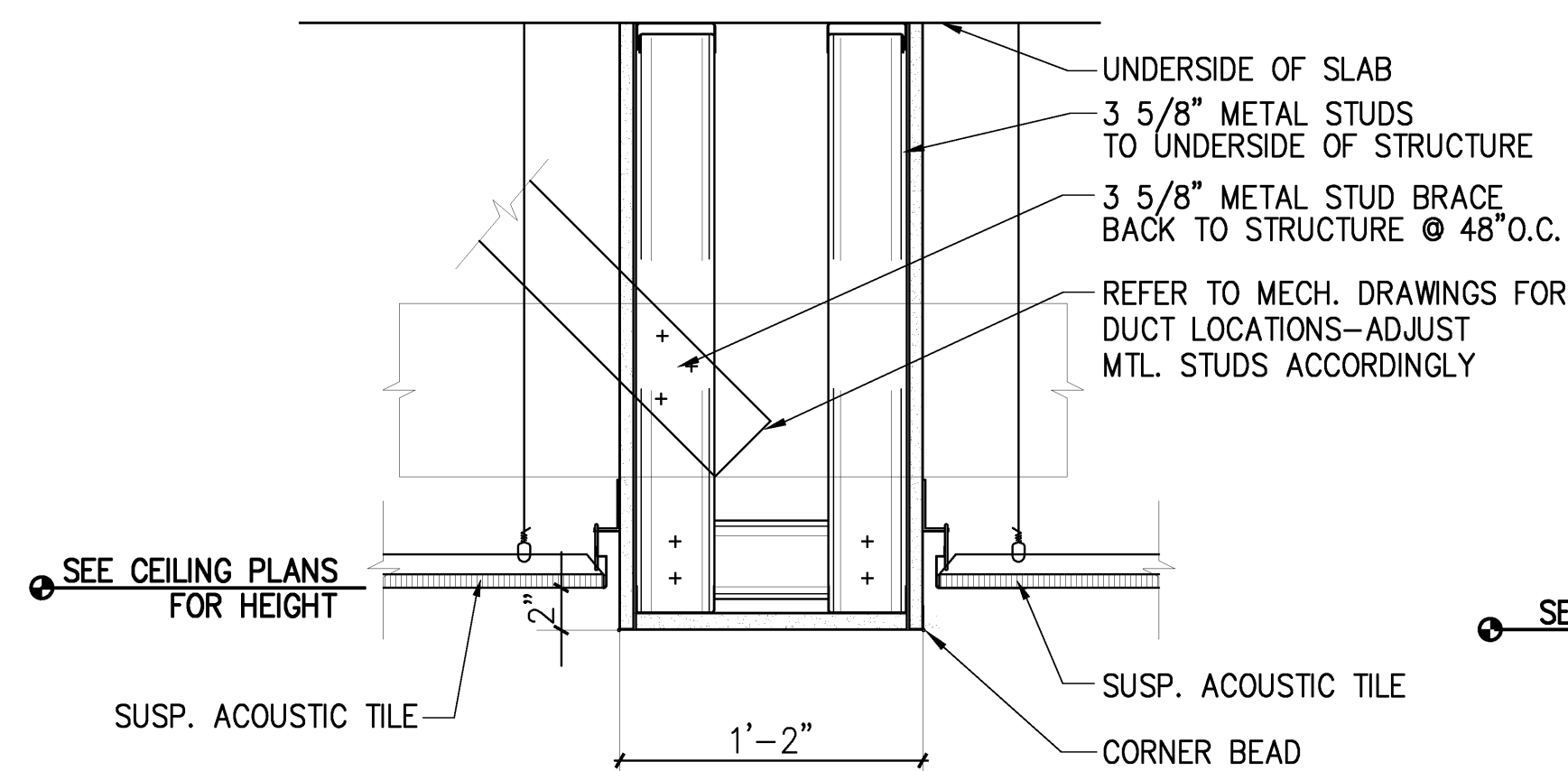
3 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



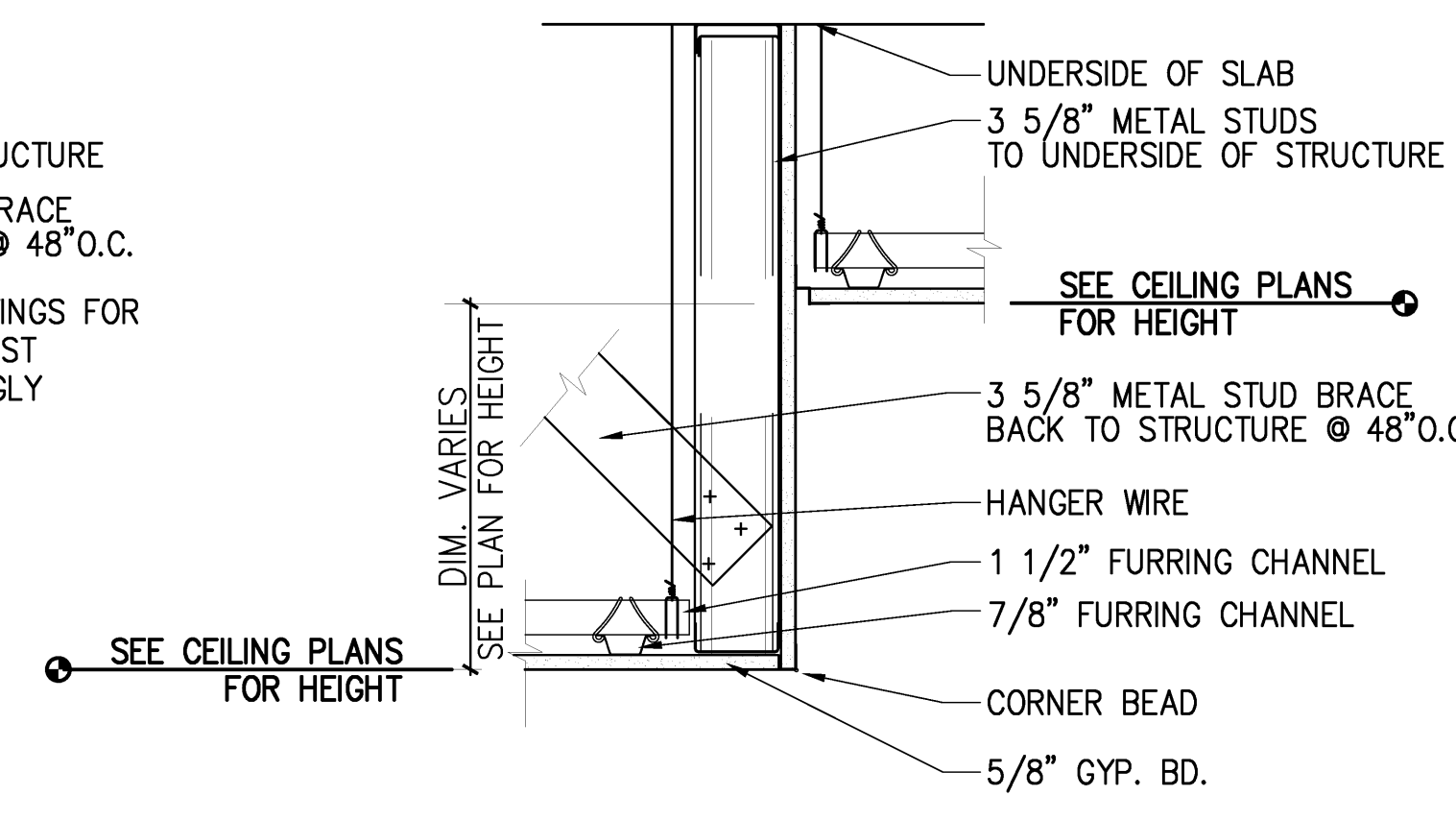
4 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



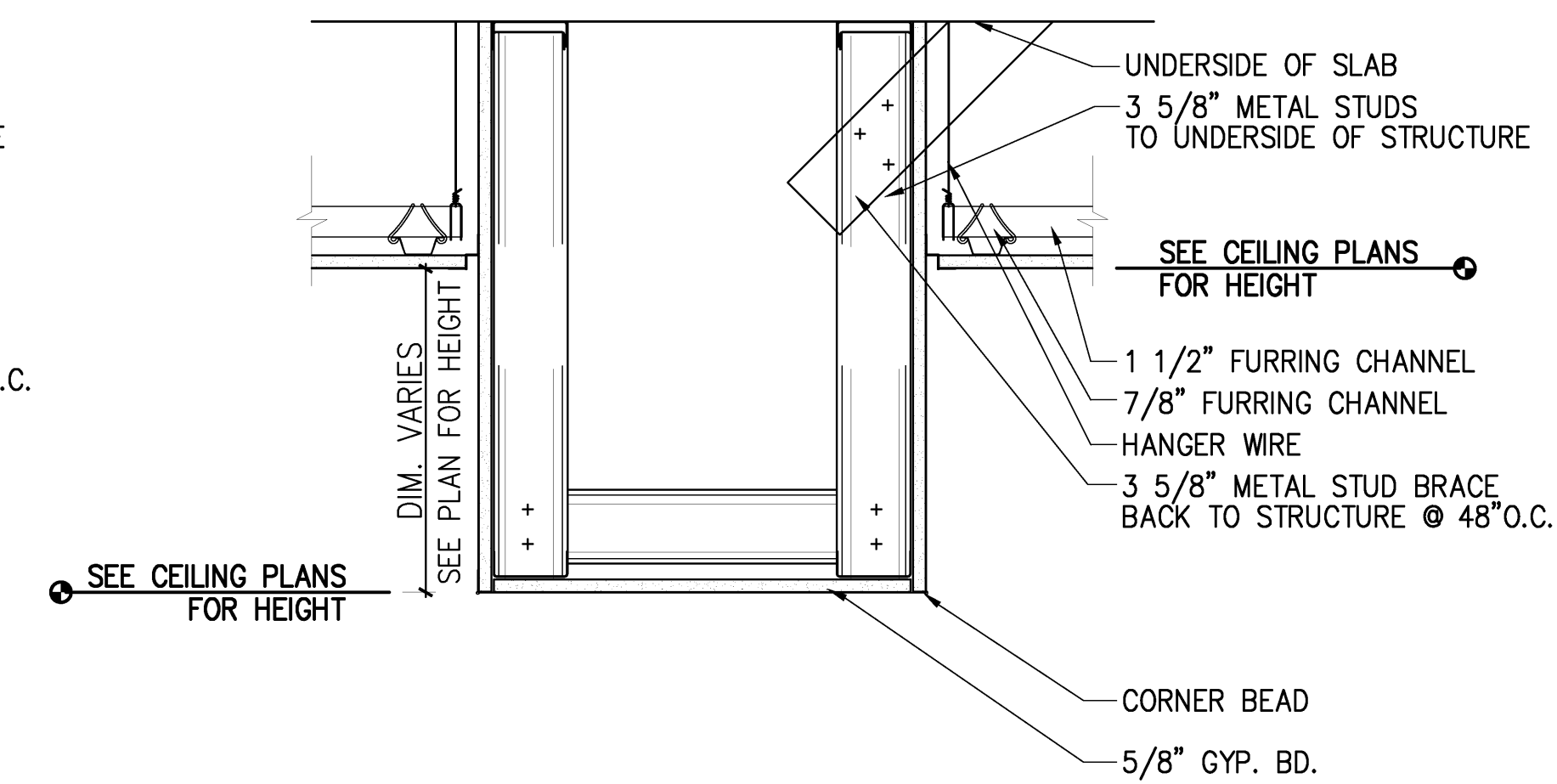
5 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



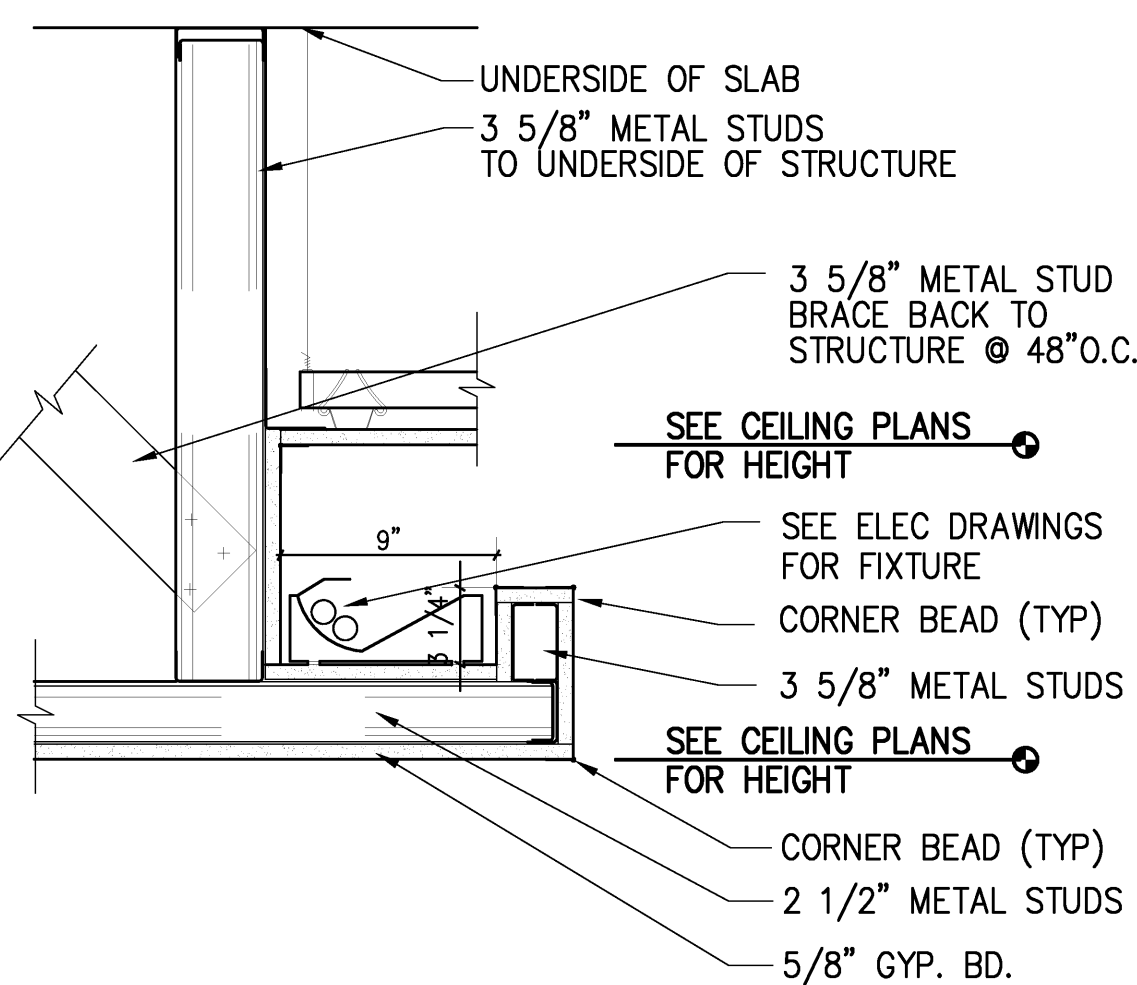
6 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



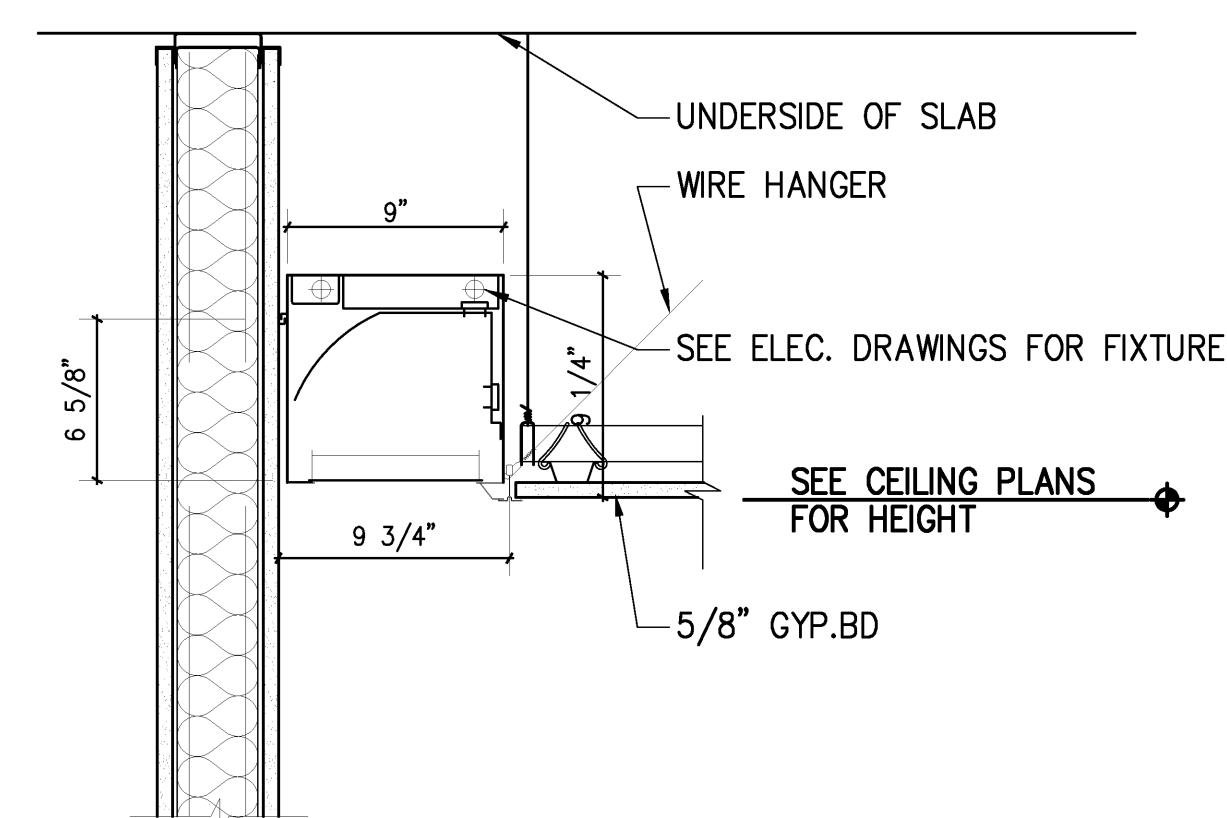
7 SOFFIT DETAIL @CLG. HEIGHT TRANSITION
SCALE 1 1/2" = 1'-0"



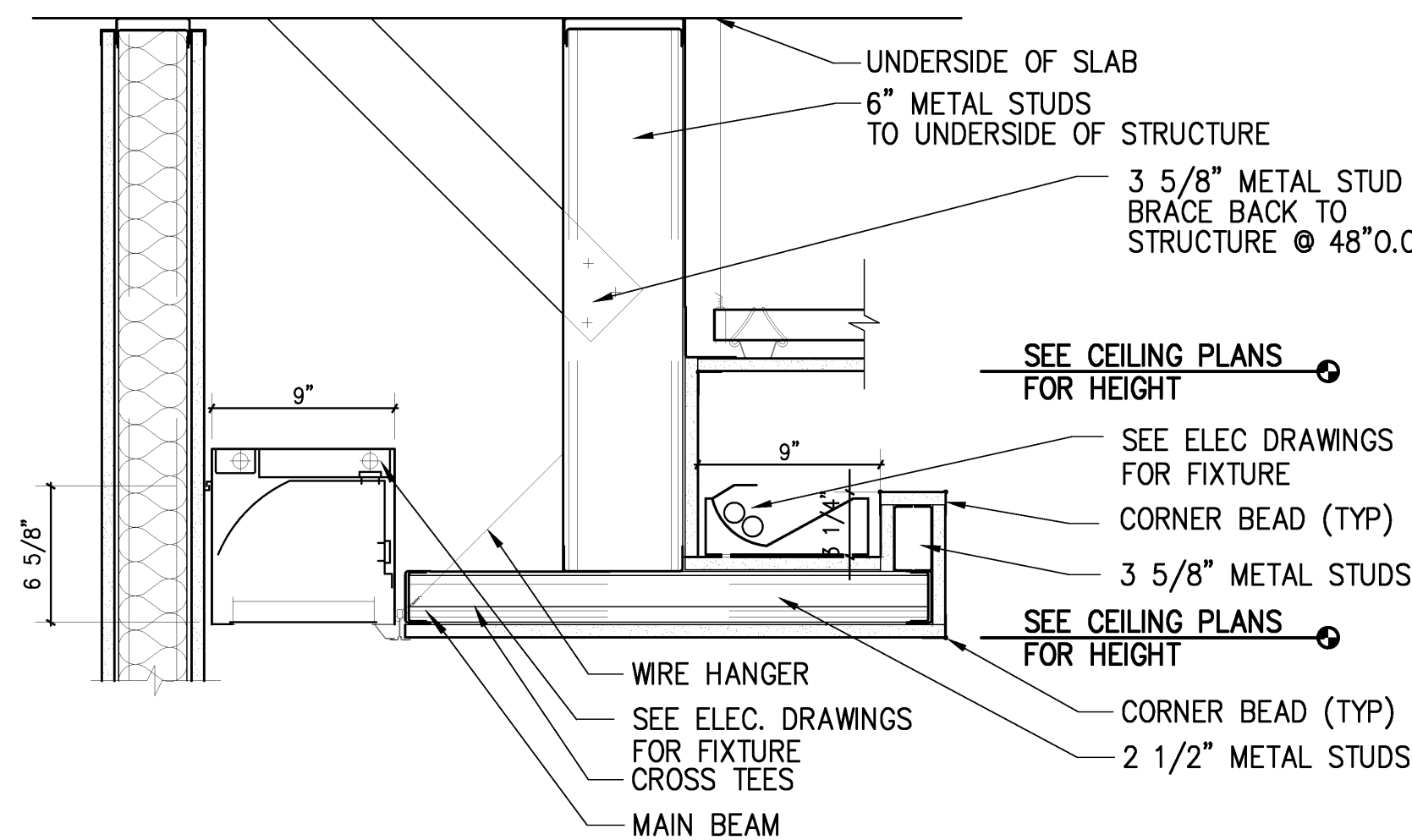
8 SOFFIT DETAIL @CLG. HEIGHT TRANSITION
SCALE 1 1/2" = 1'-0"



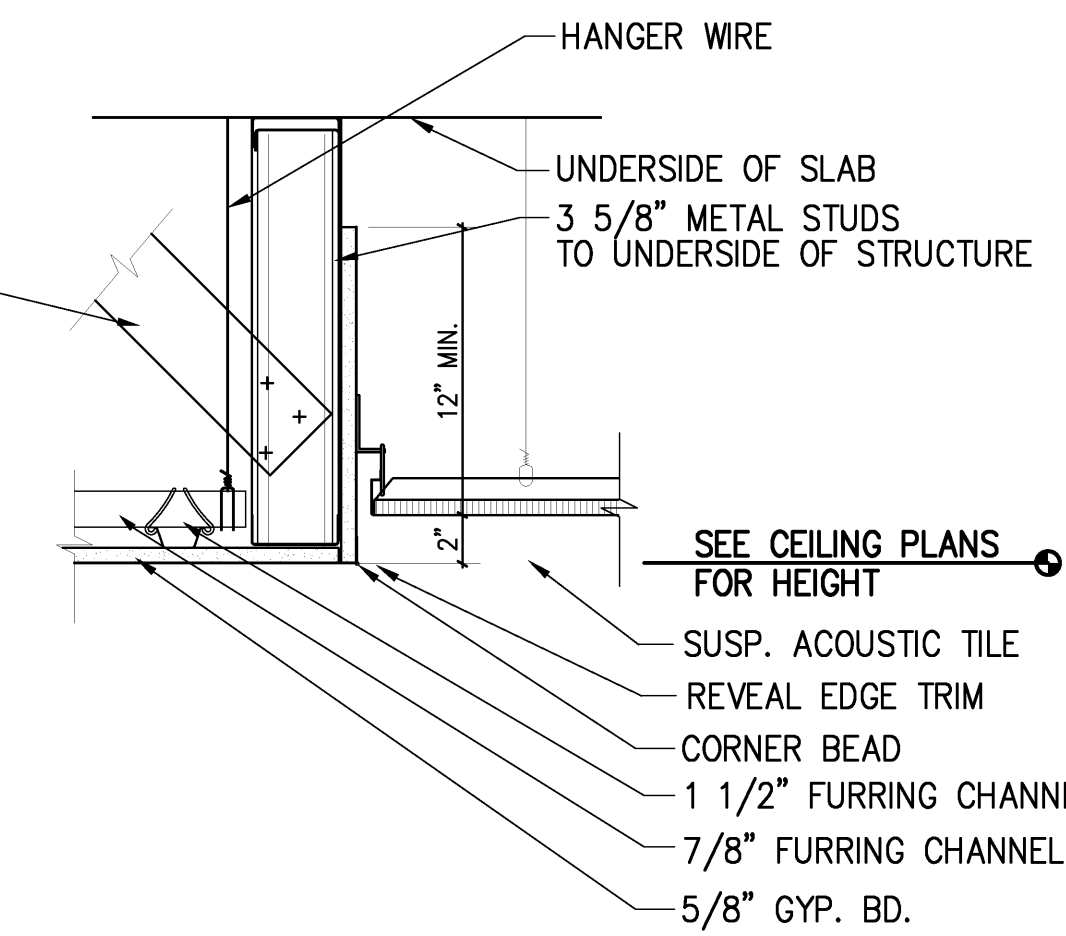
9 TYP. COVE LIGHT
SCALE 1 1/2" = 1'-0"



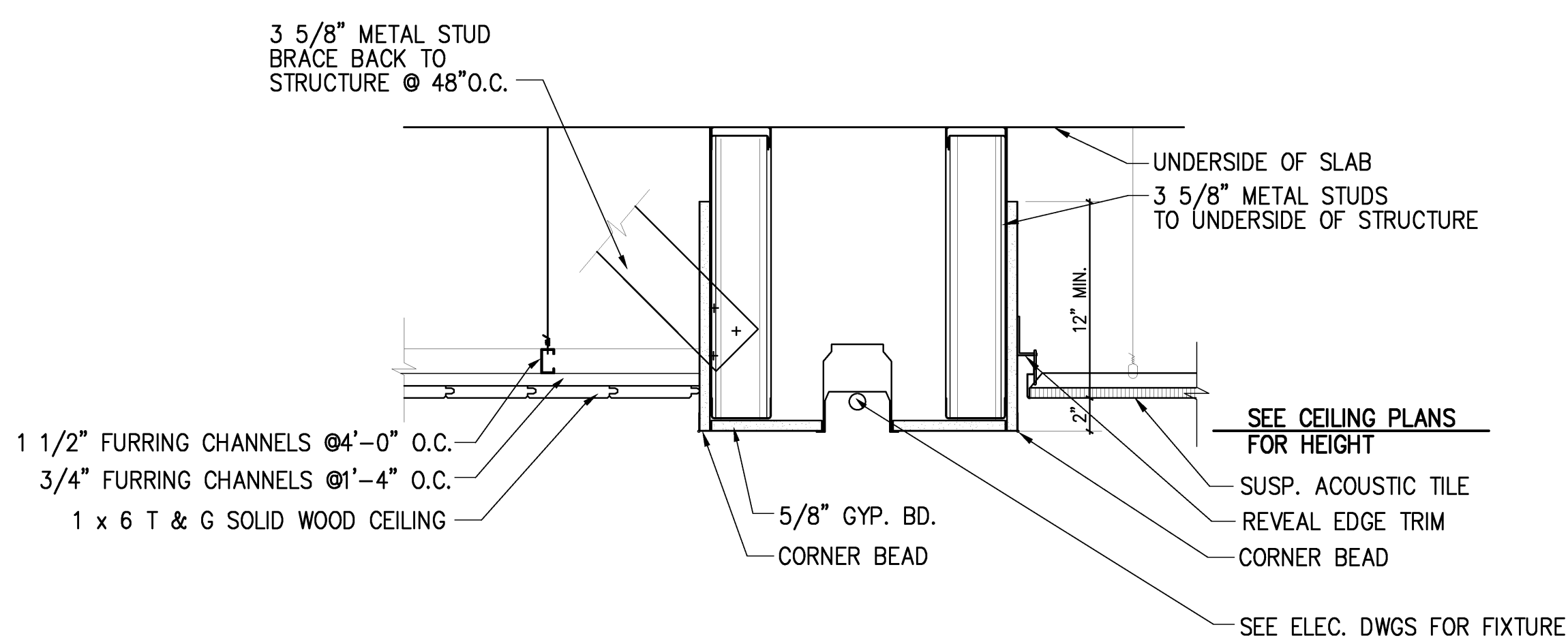
10 COVE LIGHT @RESTROOM
SCALE 1 1/2" = 1'-0"



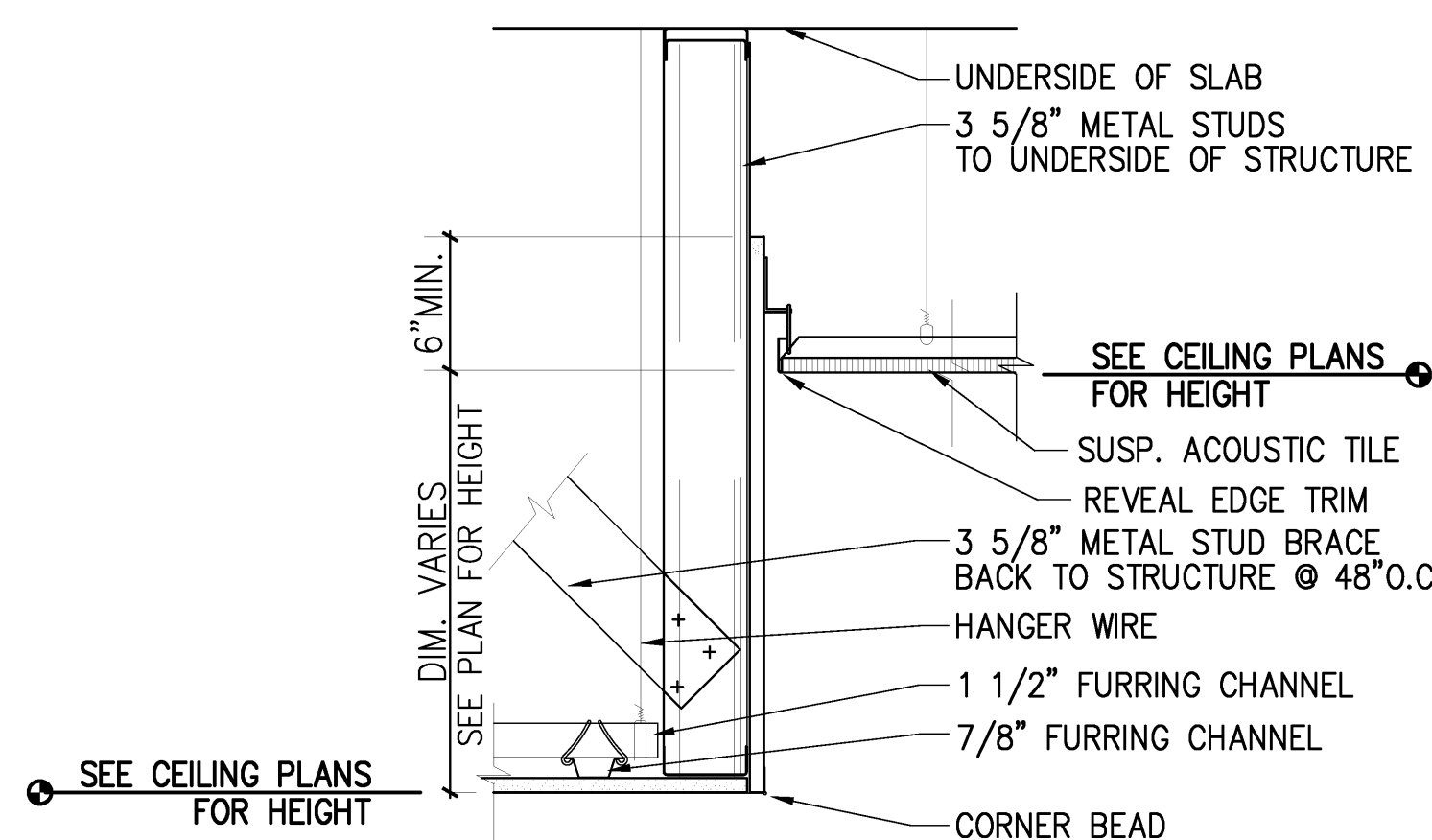
11 COVE LIGHT @LOBBY
SCALE 1 1/2" = 1'-0"



12 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"



13 TRANSITION DETAIL @CLASSROOM #127 & 138
SCALE 1 1/2" = 1'-0"



14 TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"

NOTES

1. DETAILS KEYED FROM REFLECTED CEILING PLAN SHEET A7.1-A7.4
2. REFER TO A003 FOR PARTITION DETAILS
3. CONTRACTOR TO COORDINATE STUD FRAMING WITH DUCTWORK
4. CONTRACTOR TO COORDINATE COVE DIMENSION WITH APPROVED LIGHT FIXTURES

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
IF NOT ONE INCH ON
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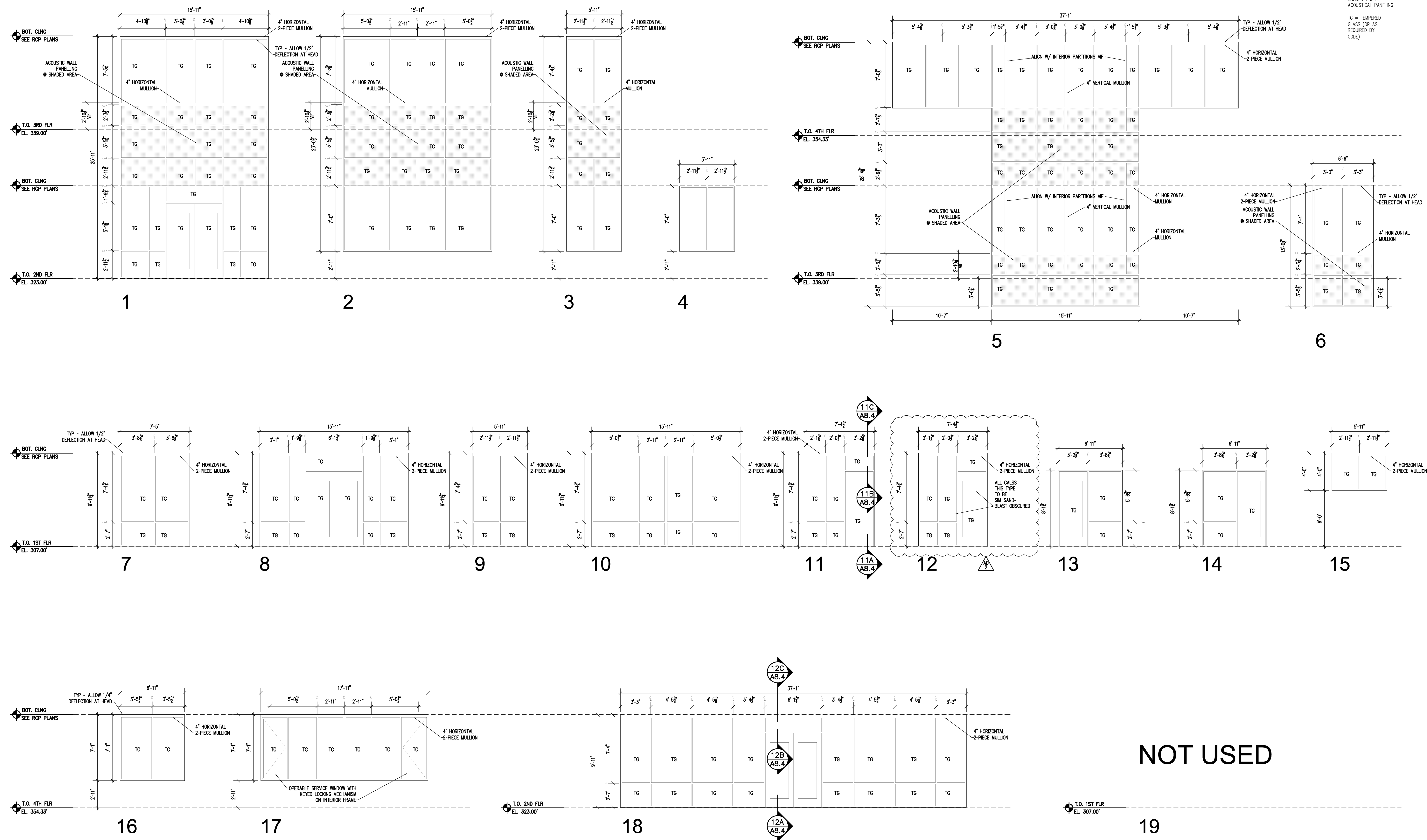
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013

Title: Ceiling Details
Sheet Number: **A7.7**



Cahoon Steiling Studio

SHADED AREA =
ACOUSTICAL PANELING
TG = TEMPERED
GLASS (OR AS
REQUIRED BY
CODE)



NOT USED

1 INTERIOR WINDOW SCHEDULE
SCALE 1/4" = 1' - 0"

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.



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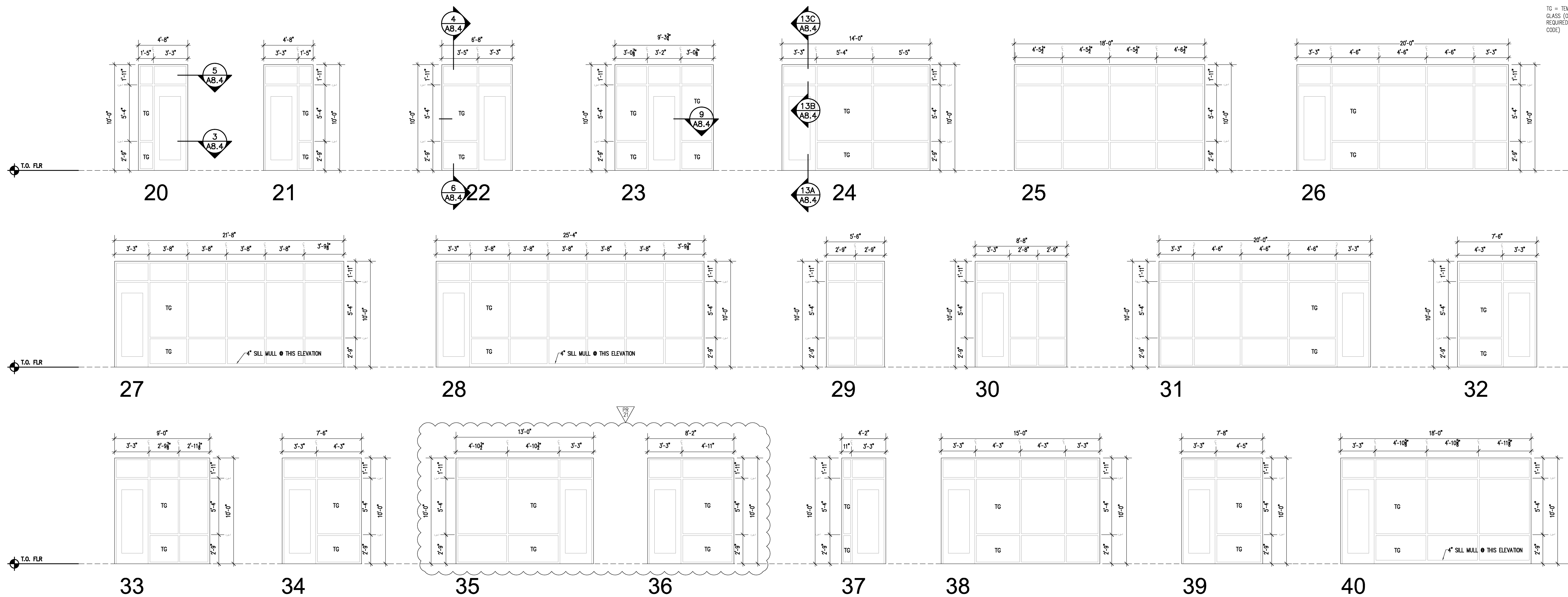
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013

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Studio

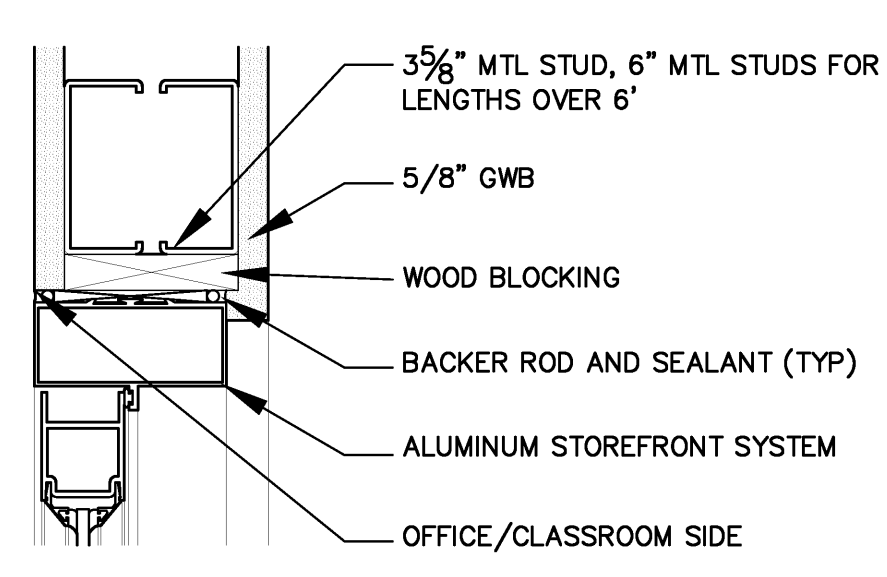
Title: WINDOW SCHEDULE

Sheet Number: **A8.3**

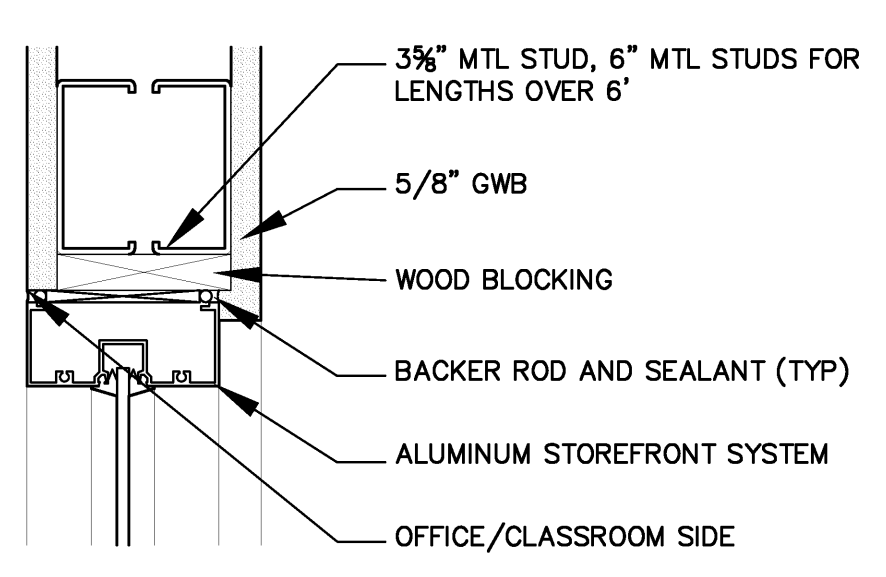
TG = TEMPERED GLASS (OR AS REQUIRED BY CODE)



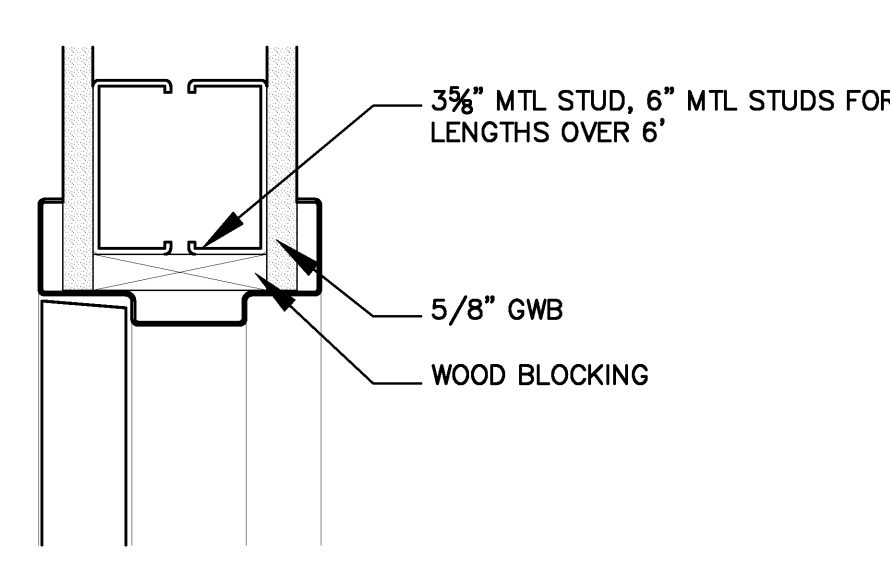
1 INTERIOR WINDOW SCHEDULE
SCALE 1/4" = 1'-0"



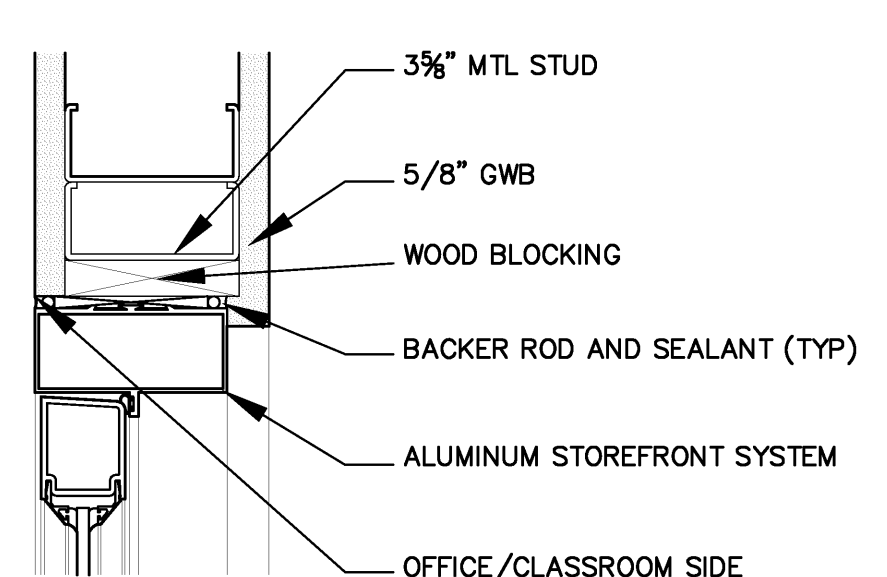
2 DOOR HEAD DETAIL
SCALE 3" = 1'-0"



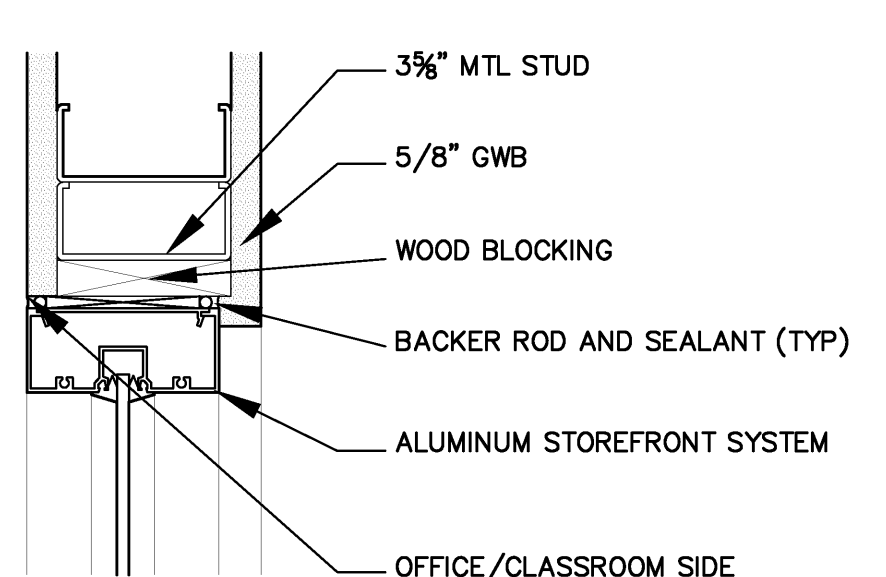
4 WINDOW HEAD DETAIL
SCALE 3" = 1'-0"



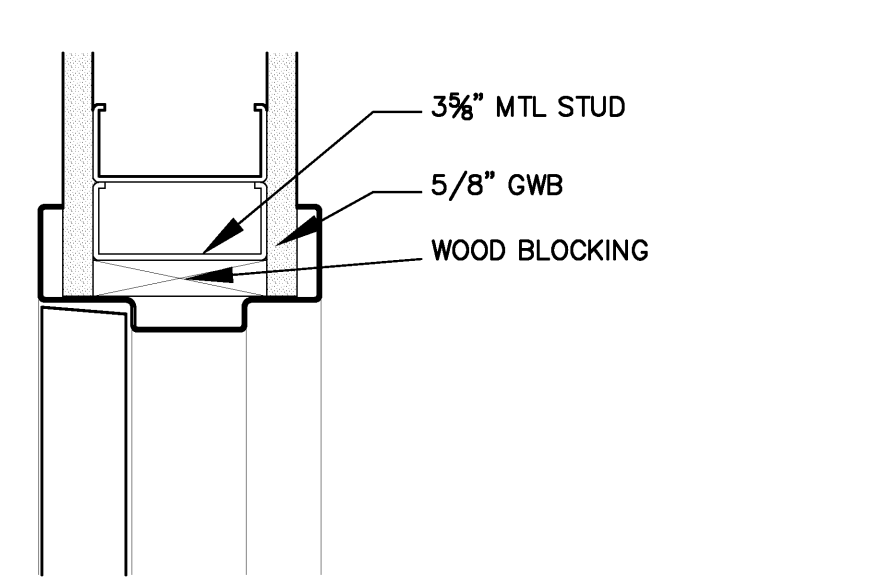
7 DOOR HEAD DETAIL
SCALE 3" = 1'-0"



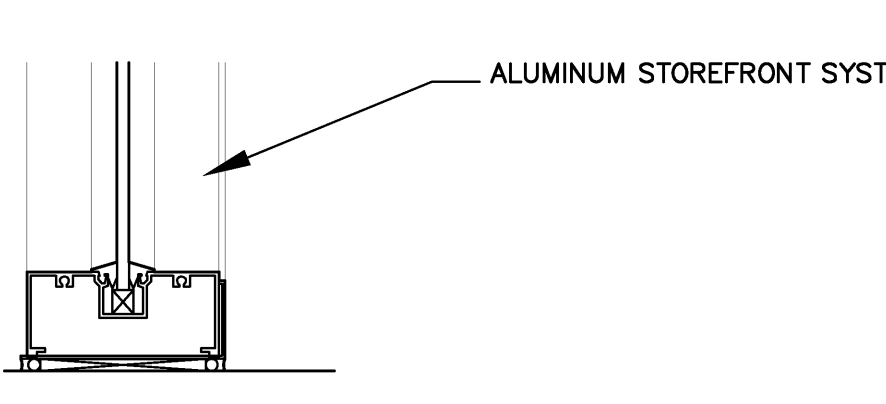
3 DOOR JAMB DETAIL
SCALE 3" = 1'-0"



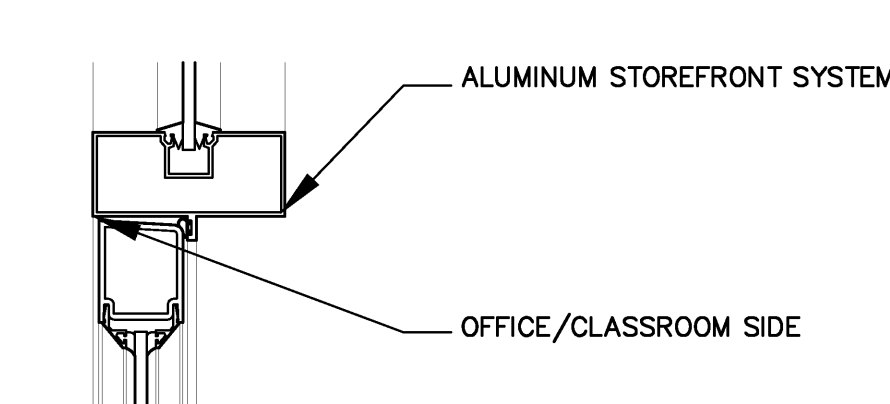
5 WINDOW JAMB DETAIL
SCALE 3" = 1'-0"



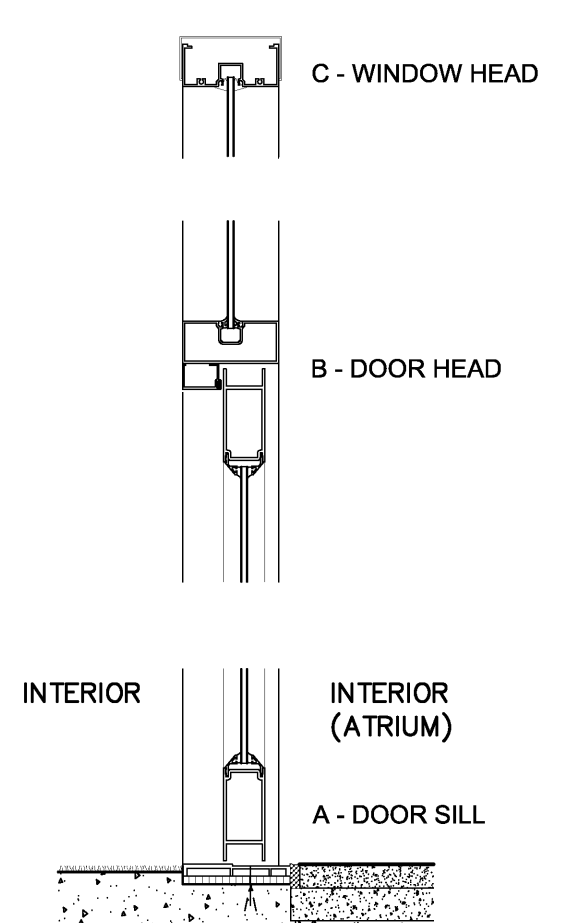
8 DOOR JAMB DETAIL
SCALE 3" = 1'-0"



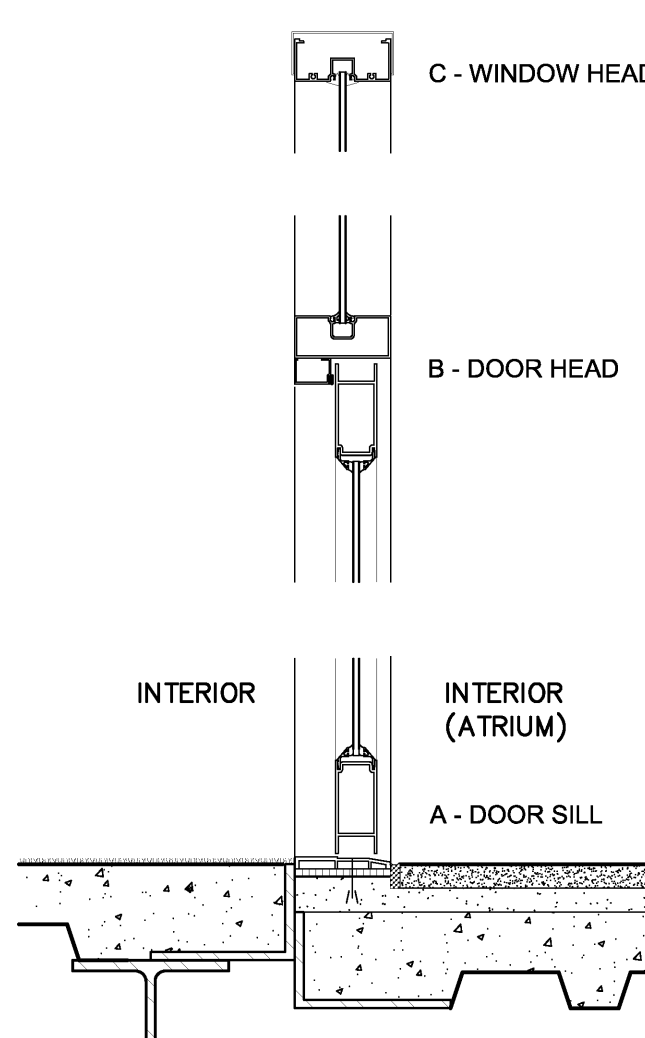
6 WINDOW SILL DETAIL
SCALE 3" = 1'-0"



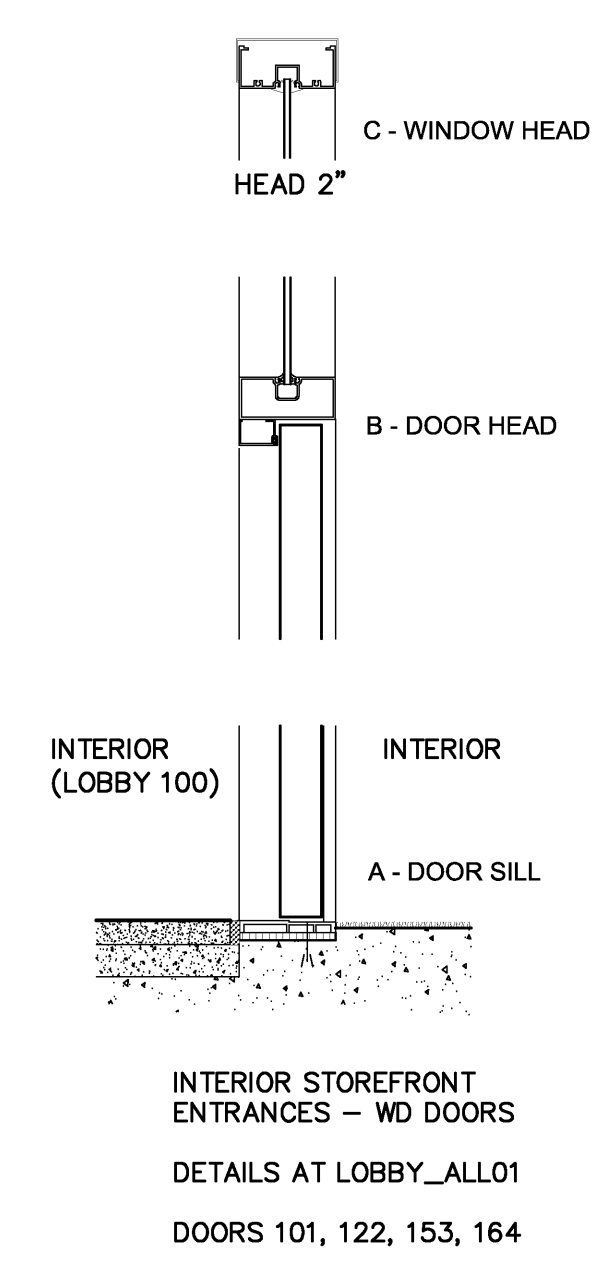
9 DOOR JAMB DETAIL
SCALE 3" = 1'-0"



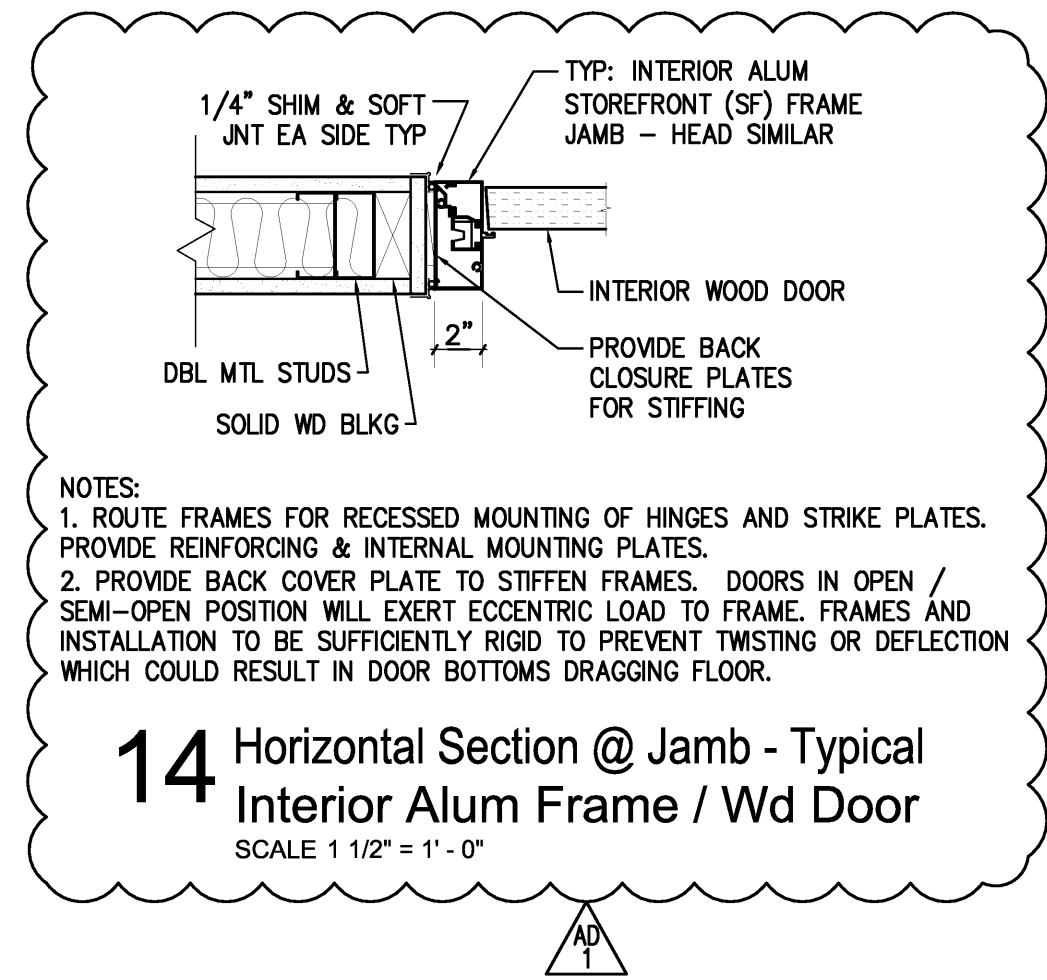
11 STOREFRONT DETAILS
SCALE 1-1/2" = 1'-0"



12 STOREFRONT DETAILS
SCALE 1-1/2" = 1'-0"



13 STOREFRONT DETAILS
SCALE 1-1/2" = 1'-0"



14 Horizontal Section @ Jamb - Typical Interior Alum Frame / Wd Door
SCALE 1 1/2" = 1'-0"

NOTES:
1. ROUTE FRAMES FOR RECESSED MOUNTING OF HINGES AND STRIKE PLATES. PROVIDE REINFORCING & INTERNAL MOUNTING PLATES.
2. PROVIDE BACK COVER PLATE TO STIFFEN FRAMES. DOORS IN OPEN / SEMI-OPEN POSITION WILL EXERT ECCENTRIC LOAD TO FRAME. FRAMES AND INSTALLATION TO BE SUFFICIENTLY RIGID TO PREVENT TWISTING OR DEFLECTION WHICH COULD RESULT IN DOOR BOTTOMS DRAGGING FLOOR.

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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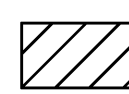
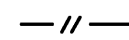
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915 Southwest Drive
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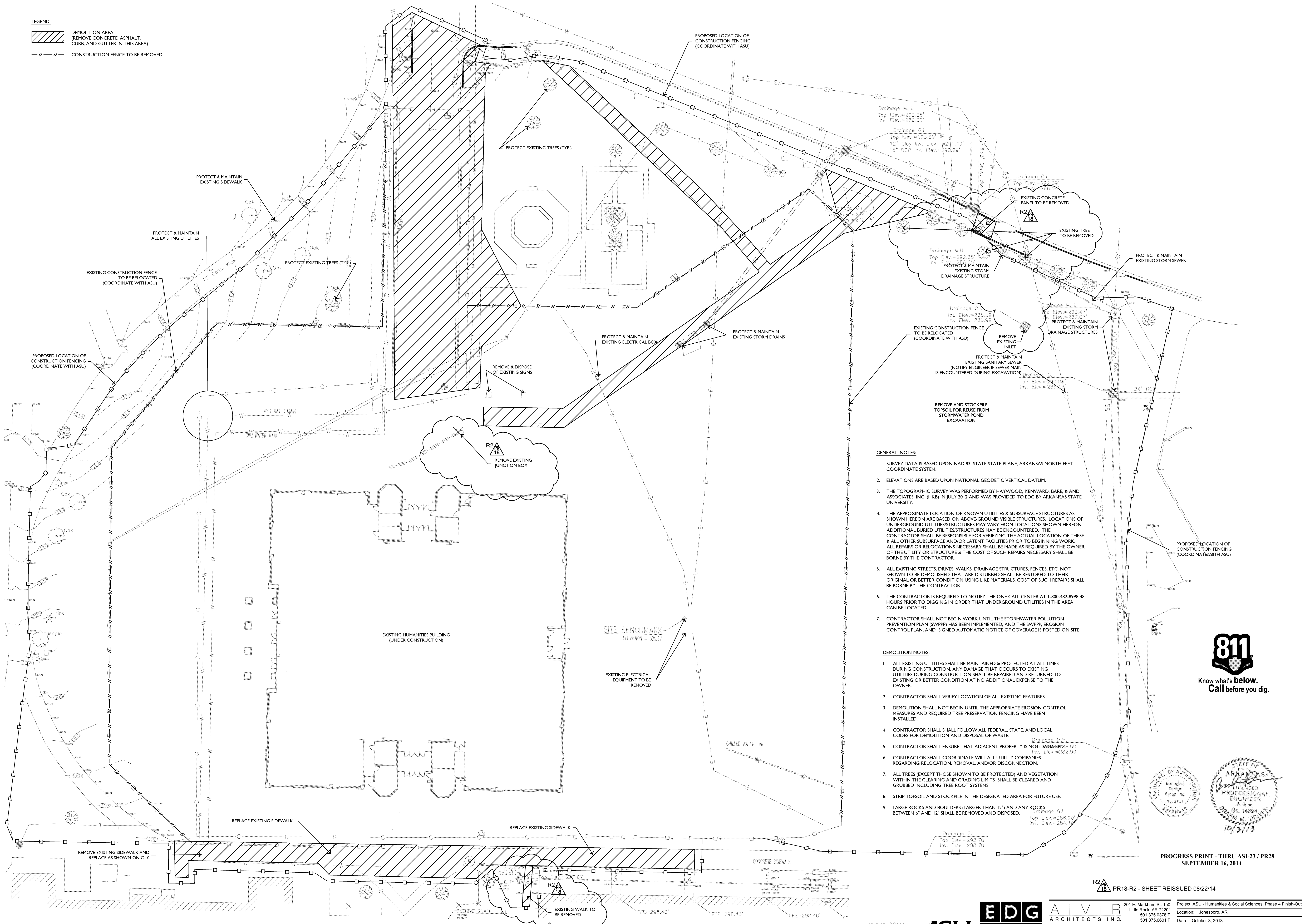
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 03, 2013

Title: WINDOW SCHEDULE, DOOR & STOREFRONT DETAILS

Sheet Number: **AB.4**

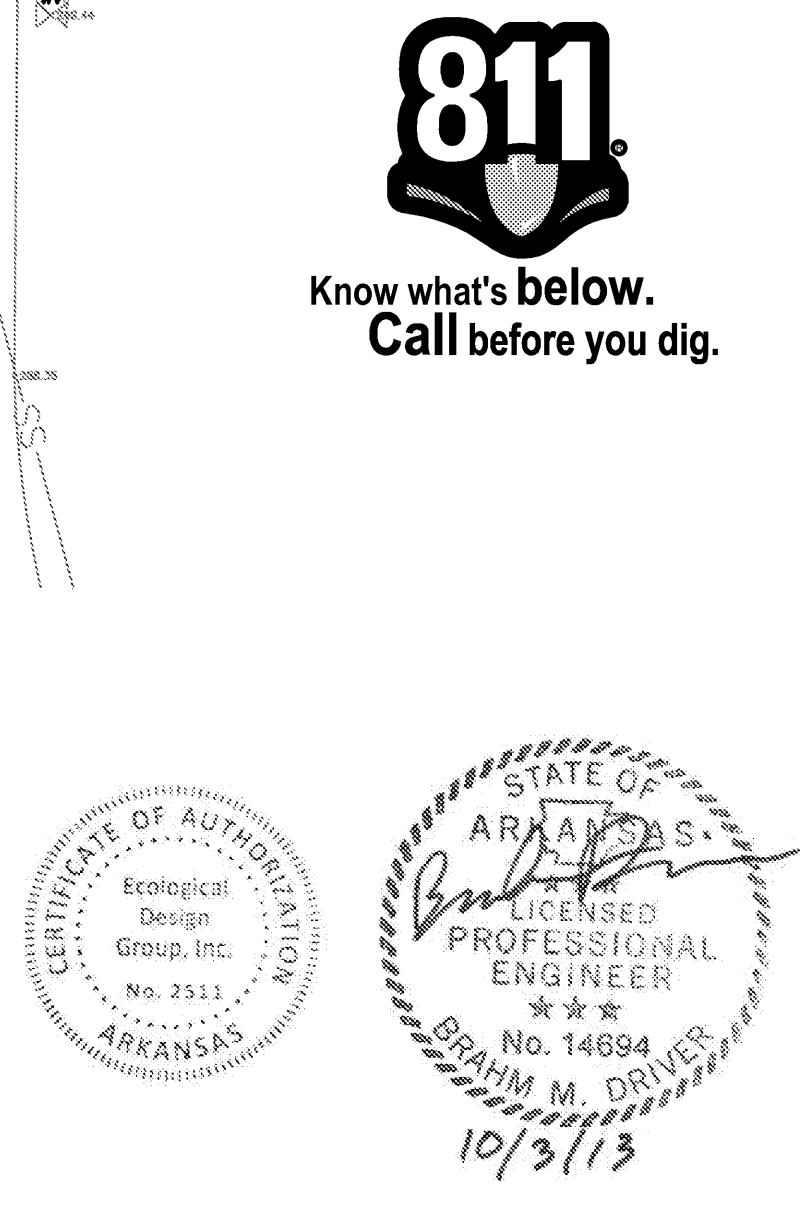


LEGEND:
 DEMOLITION AREA (REMOVE CONCRETE, ASPHALT, CURB, AND GUTTER IN THIS AREA)
 CONSTRUCTION FENCE TO BE REMOVED



- GENERAL NOTES:**
1. SURVEY DATA IS BASED UPON NAD 83, STATE STATE PLANE, ARKANSAS NORTH FEET COORDINATE SYSTEM.
 2. ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM.
 3. THE TOPOGRAPHIC SURVEY WAS PERFORMED BY HAYWOOD, KENWARD, BARE, & ASSOCIATES, INC. (HK8) IN JULY 2012 AND WAS PROVIDED TO EDG BY ARKANSAS STATE UNIVERSITY.
 4. THE APPROXIMATE LOCATION OF KNOWN UTILITIES & SUBSURFACE STRUCTURES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE STRUCTURES. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF THESE & ALL OTHER SUBSURFACE AND/OR LATENT FACILITIES PRIOR TO BEGINNING WORK. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE & THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
 5. ALL EXISTING STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. NOT SHOWN TO BE DEMOLISHED THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
 6. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
 7. CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN IMPLEMENTED, AND THE SWPPP, EROSION CONTROL PLAN, AND SIGNED AUTOMATIC NOTICE OF COVERAGE IS POSTED ON SITE.

- DEMOLITION NOTES:**
1. ALL EXISTING UTILITIES SHALL BE MAINTAINED & PROTECTED AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AND RETURNED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
 2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING FEATURES.
 3. DEMOLITION SHALL NOT BEGIN UNTIL THE APPROPRIATE EROSION CONTROL MEASURES AND REQUIRED TREE PRESERVATION FENCING HAVE BEEN INSTALLED.
 4. CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL CODES FOR DEMOLITION AND DISPOSAL OF WASTE.
 5. CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTY IS NOT DAMAGED.
 6. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING RELOCATION, REMOVAL AND/OR DISCONNECTION.
 7. ALL TREES (EXCEPT THOSE SHOWN TO BE PROTECTED) AND VEGETATION WITHIN THE CLEARING AND GRADING LIMITS SHALL BE CLEARED AND GRUBBED INCLUDING TREE ROOT SYSTEMS.
 8. STRIP TOPSOIL AND STOCKPILE IN THE DESIGNATED AREA FOR FUTURE USE.
 9. LARGE ROCKS AND BOULDERS (LARGER THAN 12") AND ANY ROCKS BETWEEN 6" AND 12" SHALL BE REMOVED AND DISPOSED.

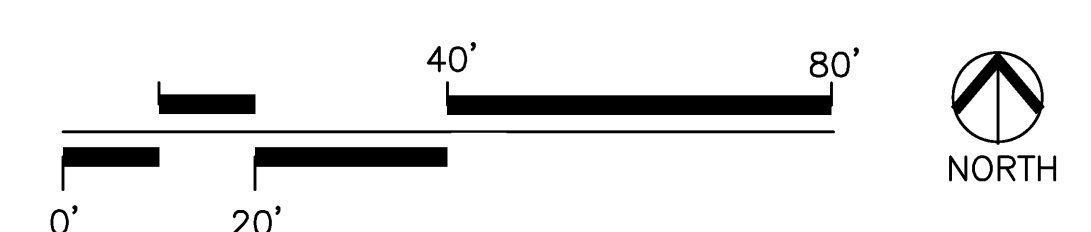


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R2A 18 PR18-R2 - SHEET REISSUED 08/22/14

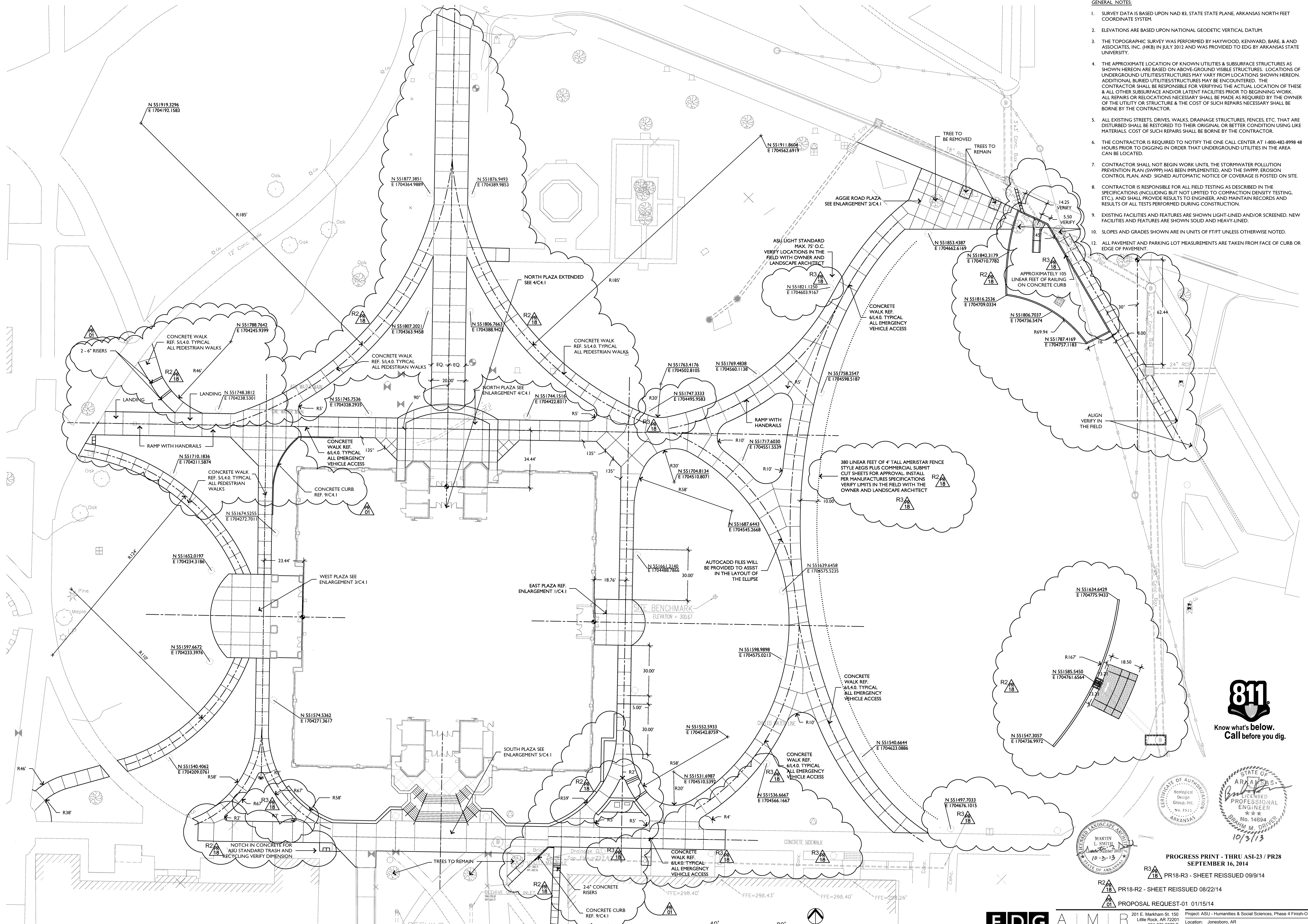
1 SITE PREPARATION & DEMOLITION PLAN
 SCALE: 1"=20'



VERIFY SCALE
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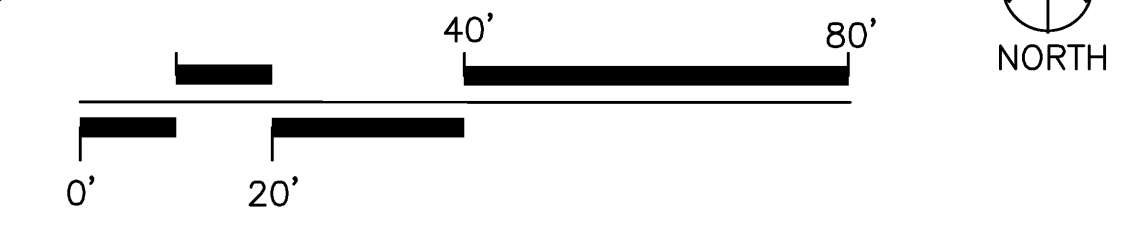
 ARKANSAS STATE UNIVERSITY	 ecological design group 120 S. Izard Street Little Rock, AR 72201 501.378.0200 210 E. Main Street Fayetteville, AR 72701 479.338.0201	 ARCHITECTS, INC. 201 E. Markham St. 150 Little Rock, AR 72201 501.375.0378 T 501.375.6601 F	Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out Location: Jonesboro, AR Date: October 3, 2013 Modifies: SITE PREPARATION & DEMOLITION PLAN Sheet: _____ Sketch Number: _____ Sheet Number: CO.0
	 Cahoon Steiling Studio		

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 8. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AS DESCRIBED IN THE SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO COMPACTION DENSITY TESTING, ETC.) AND SHALL PROVIDE RESULTS TO ENGINEER, AND MAINTAIN RECORDS AND RESULTS OF ALL TESTS PERFORMED DURING CONSTRUCTION.
 9. EXISTING FACILITIES AND FEATURES ARE SHOWN LIGHT-LINED AND/OR SCREENED. NEW FACILITIES AND FEATURES ARE SHOWN SOLID AND HEAVY-LINED.
 10. SLOPES AND GRADES SHOWN ARE IN UNITS OF FT/FT UNLESS OTHERWISE NOTED.
 11. ALL PAVEMENT AND PARKING LOT MEASUREMENTS ARE TAKEN FROM FACE OF CURB OR EDGE OF PAVEMENT.



1 SITE LAYOUT PLAN

SCALE: 1"=20'



VERIFY SCALE
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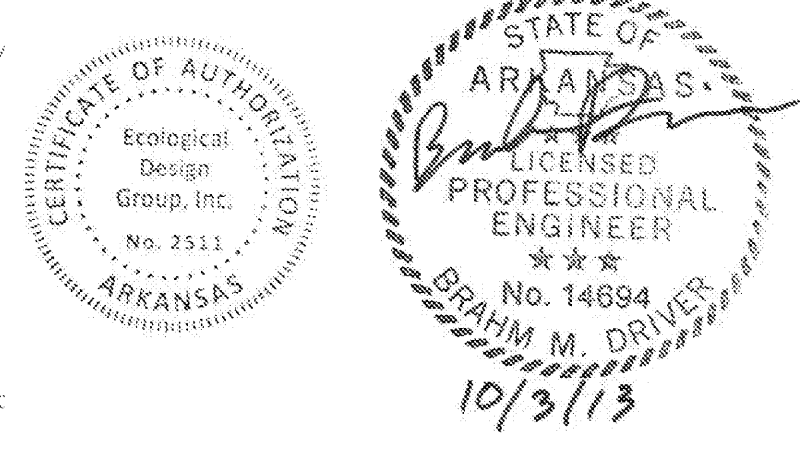
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Modifies: SITE LAYOUT
 Sheet: PLAN

Sketch Number: Sheet Number: **C1.0**



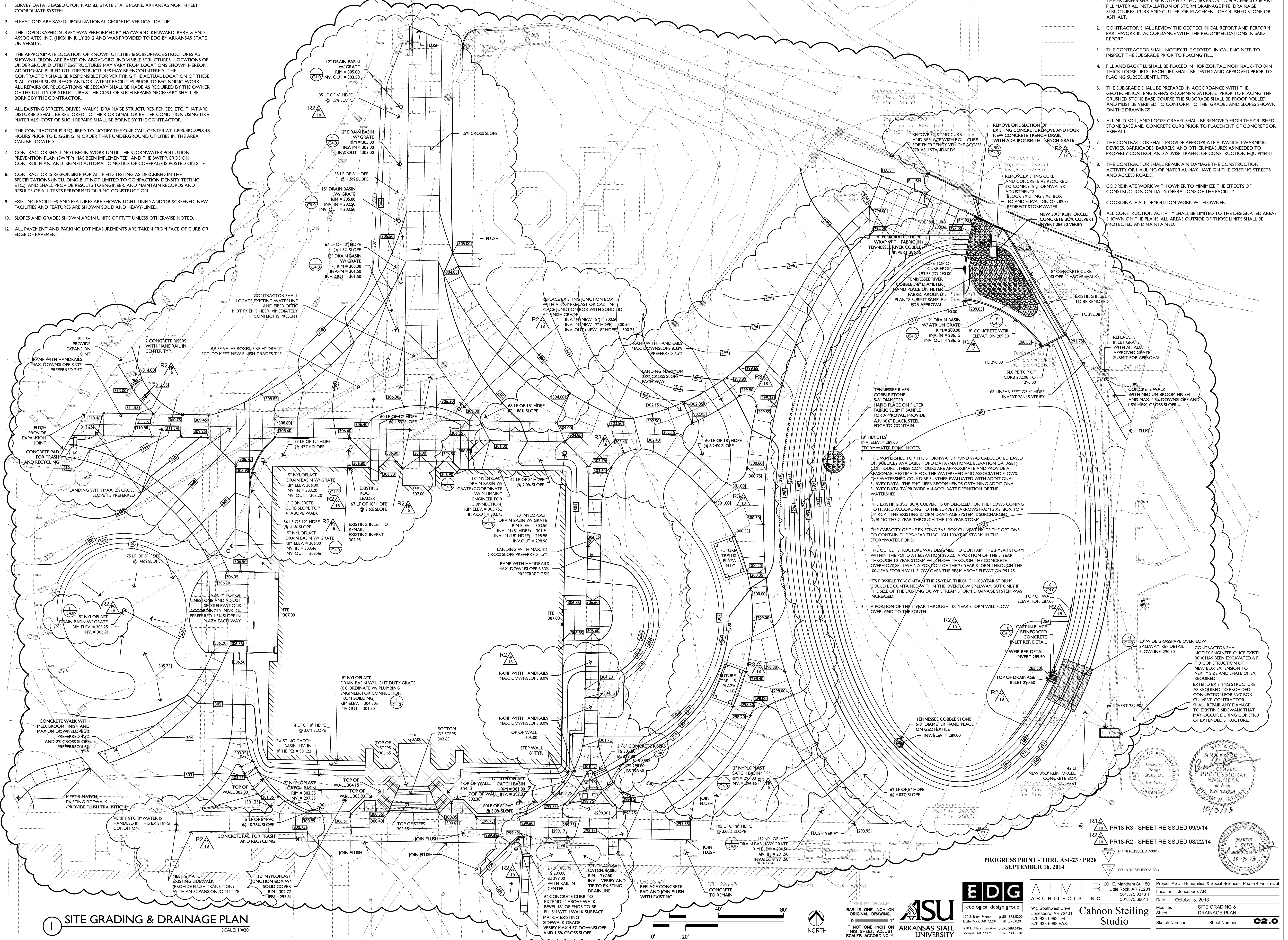
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 SEPTEMBER 16, 2014
 PR18-R3 - SHEET REISSUED 09/9/14
 PR18-R2 - SHEET REISSUED 08/22/14
 PROPOSAL REQUEST-01 01/15/14

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GRADING AND EARTHWORK NOTES

1. THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL, INSTALLATION OF STORM DRAINAGE PIPE, DRAINAGE STRUCTURES, CURB AND GUTTER, OR PLACEMENT OF CRUSHED STONE OR ASPHALT.
2. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT AND PERFORM EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN SAID REPORT.
3. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE SUBGRADE PRIOR TO PLACING FILL.
4. FILL AND BACKFILL SHALL BE PLACED IN HORIZONTAL, NOMINAL 6- TO 8-IN THICK LOOSE LIFTS. EACH LIFT SHALL BE TESTED AND APPROVED PRIOR TO PLACING SUBSEQUENT LIFTS.
5. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. PRIOR TO PLACING THE CRUSHED STONE BASE COURSE THE SUBGRADE SHALL BE PROOF ROLLED, AND MUST BE VERIFIED TO CONFORM TO THE GRADES AND SLOPES SHOWN ON THE DRAWINGS.
6. ALL MUD SOIL AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB PRIOR TO PLACEMENT OF CONCRETE OR ASPHALT.
7. THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS, AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC OF CONSTRUCTION EQUIPMENT.
8. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE CONSTRUCTION ACTIVITY OR HAULING OF MATERIAL MAY HAVE ON THE EXISTING STREETS AND ACCESS ROADS.
9. COORDINATE WORK WITH OWNER TO MINIMIZE THE EFFECTS OF CONSTRUCTION ON DAILY OPERATIONS OF THE FACILITY.
10. COORDINATE ALL DEMOLITION WORK WITH OWNER.
11. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE DESIGNATED AREAS SHOWN ON THE PLANS. ALL AREAS OUTSIDE OF THOSE LIMITS SHALL BE PROTECTED AND MAINTAINED.



STORMWATER POND NOTES:

1. THE WATERSHED FOR THE STORMWATER POND WAS CALCULATED BASED ON PUBLICLY AVAILABLE TOPO DATA (NATIONAL ELEVATION DATASET) CONTOURS. THESE CONTOURS ARE APPROXIMATE AND PROVIDE A REASONABLE ESTIMATE FOR THE WATERSHED AND ASSOCIATED FLOWS. THE WATERSHED COULD BE FURTHER EVALUATED WITH ADDITIONAL SURVEY DATA. THE ENGINEER RECOMMENDS OBTAINING ADDITIONAL SURVEY DATA TO PROVIDE AN ACCURATE DEFINITION OF THE WATERSHED.
2. THE EXISTING 3x3 BOX CULVERT IS UNDERSIZED FOR THE FLOWS COMING TO IT, AND ACCORDING TO THE SURVEY NARROWS FROM 3x3 BOX TO A 24" RCP. THE EXISTING STORM DRAINAGE SYSTEM IS SURCHARGED DURING THE 2-YEAR THROUGH THE 100-YEAR STORM.
3. THE CAPACITY OF THE EXISTING 3x3 BOX CULVERT OFFERS THE OPTIONS TO CONTAIN THE 25-YEAR THROUGH 100-YEAR STORM IN THE STORMWATER POND.
4. THE OUTLET STRUCTURE WAS DESIGNED TO CONTAIN THE 2-YEAR STORM WITHIN THE POND AT ELEVATION 290.22. A PORTION OF THE 5-YEAR THROUGH 10-YEAR STORM WILL FLOW THROUGH THE CONCRETE OVERFLOW SPILLWAY. A PORTION OF THE 25-YEAR STORM THROUGH THE 100-YEAR STORM WILL FLOW OVER THE BERM ABOVE ELEVATION 291.25.
5. IT'S POSSIBLE TO CONTAIN THE 25-YEAR THROUGH 100-YEAR STORMS COULD BE CONTAINED WITHIN THE OVERFLOW SPILLWAY, BUT ONLY IF THE SIZE OF THE EXISTING DOWNSTREAM STORM DRAINAGE SYSTEM WAS INCREASED.
6. A PORTION OF THE 5-YEAR THROUGH 100-YEAR STORM WILL FLOW OVERLAND TO THE SOUTH.

STATE OF ARKANSAS
 PROFESSIONAL ENGINEER
 BRITNEY M. DRIVER
 No. 14634
 10/3/13

PR-18-R3 - SHEET REISSUED 09/9/14
 PR-18-R2 - SHEET REISSUED 08/22/14
 PR-18 REISSUED 7/30/14
 PR-18 REISSUED 6/19/14

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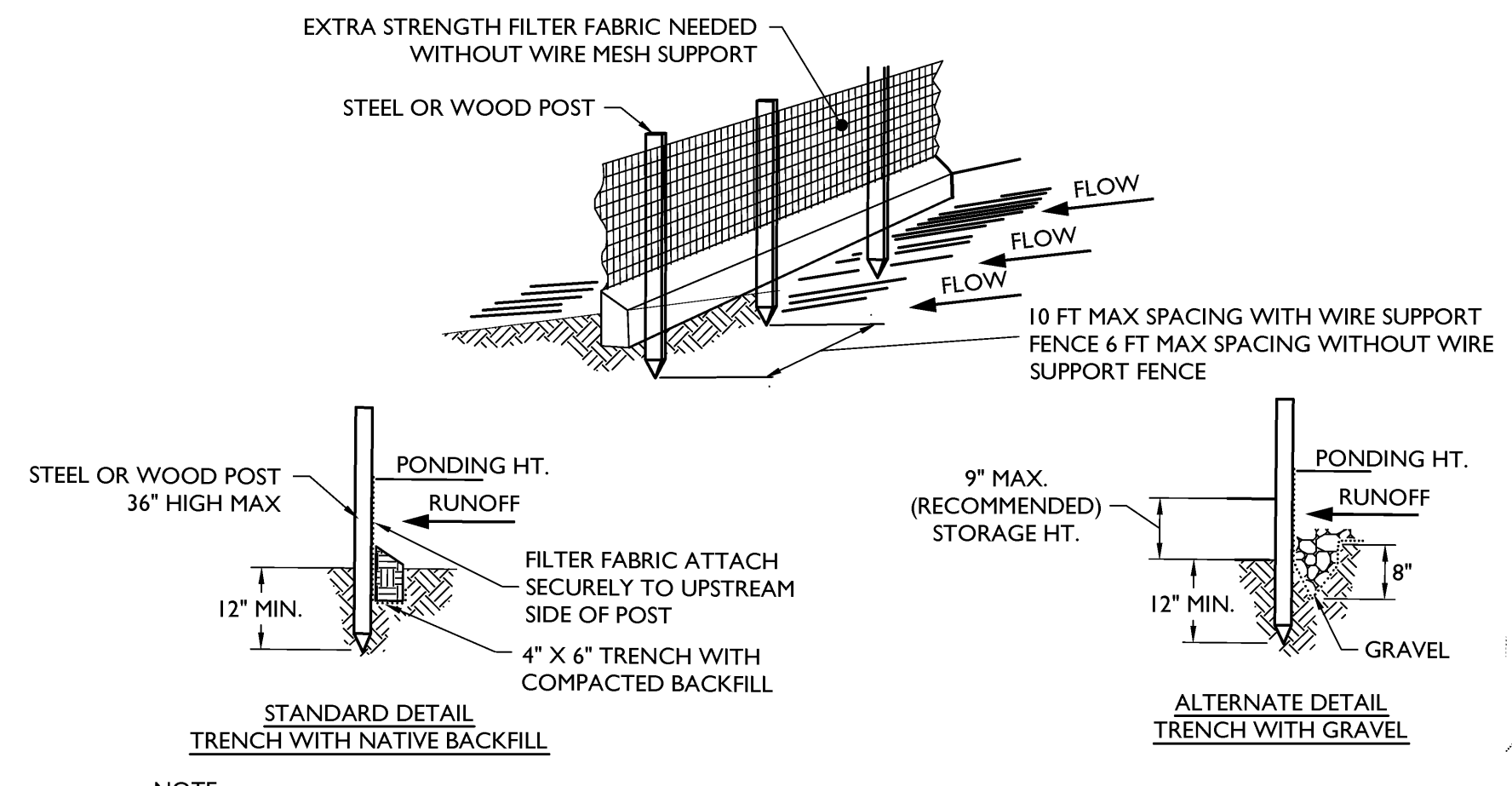
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 870.933-6993 TEL. 870.933-6988 FAX.

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Modifies: SITE GRADING & DRAINAGE PLAN
 Sketch Number: Sheet Number: **C2.0**

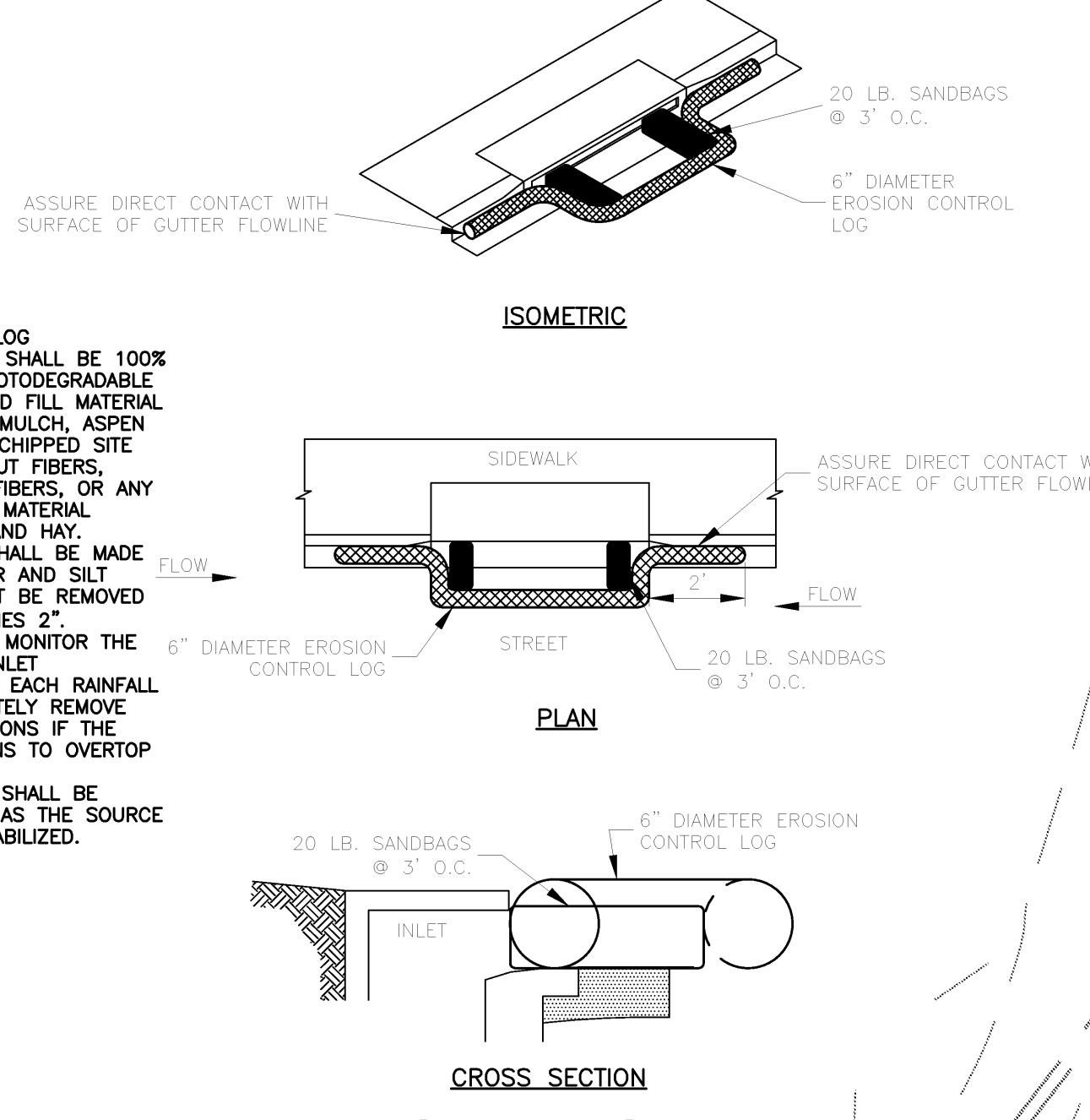
1 SITE GRADING & DRAINAGE PLAN
 SCALE: 1"=20'





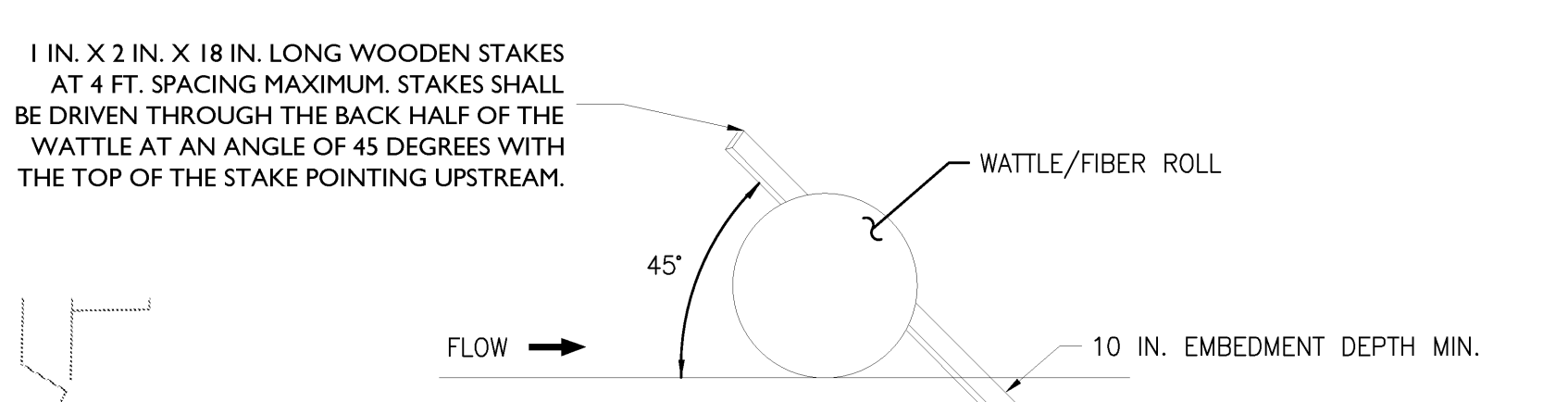
- NOTE:
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - SILT FENCE SHALL BE USED ON AN AS-NEEDED BASIS AT THE OWNER'S DISCRETION.

2 SILT FENCE DETAIL SCALE: N.T.S.

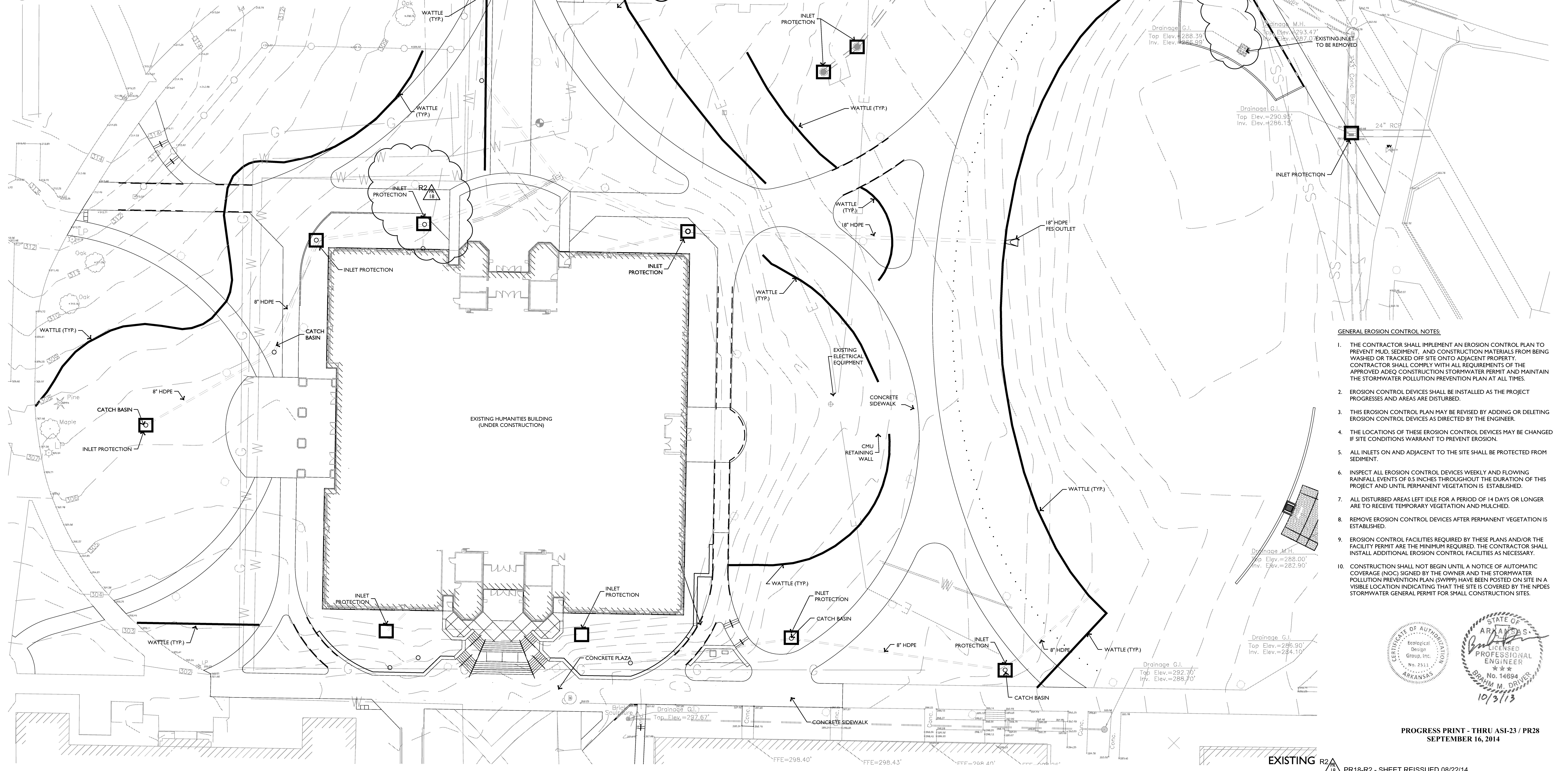


- NOTES:
- EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE, AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSDOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
 - DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
 - CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
 - INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

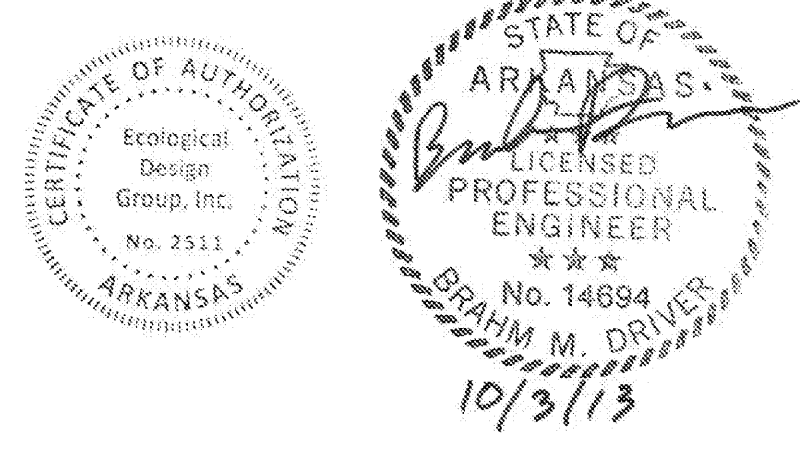
3 INLET PROTECTION SCALE: N.T.S.



4 WATTLE SCALE: N.T.S.



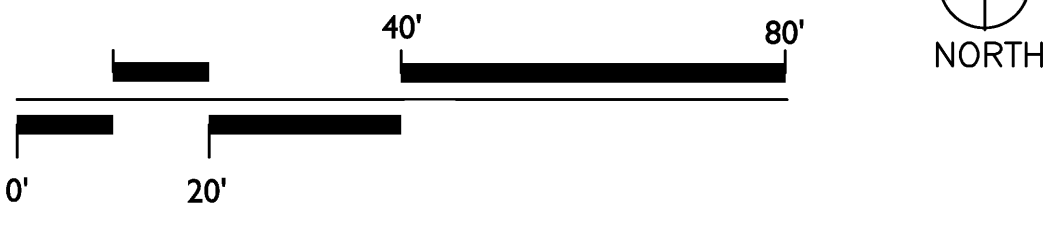
- GENERAL EROSION CONTROL NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE APPROVED ADEQ CONSTRUCTION STORMWATER PERMIT AND MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES.
 - EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
 - THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
 - THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
 - ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
 - INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FLOWING RAINFALL EVENTS OF 0.5 INCHES THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED.
 - ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHING.
 - REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.
 - EROSION CONTROL FACILITIES REQUIRED BY THESE PLANS AND/OR THE FACILITY PERMIT ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES AS NECESSARY.
 - CONSTRUCTION SHALL NOT BEGIN UNTIL A NOTICE OF AUTOMATIC COVERAGE (NOC) SIGNED BY THE OWNER AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAVE BEEN POSTED ON SITE IN A VISIBLE LOCATION INDICATING THAT THE SITE IS COVERED BY THE NPDES STORMWATER GENERAL PERMIT FOR SMALL CONSTRUCTION SITES.



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SEPTEMBER 16, 2014

EXISTING R2A PR18-R2 - SHEET REISSUED 08/22/14

1 EROSION CONTROL PLAN SCALE: 1"=20'



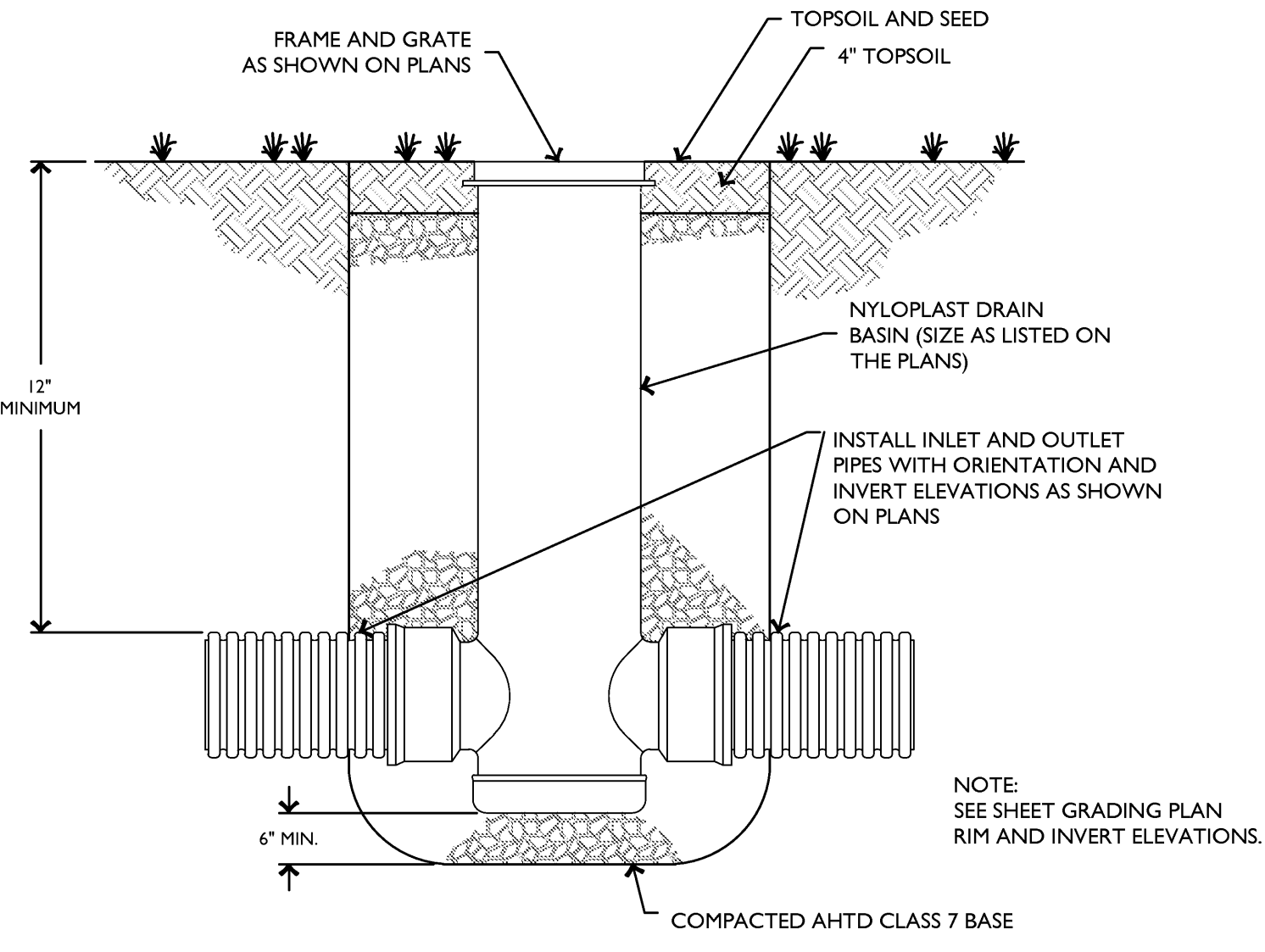
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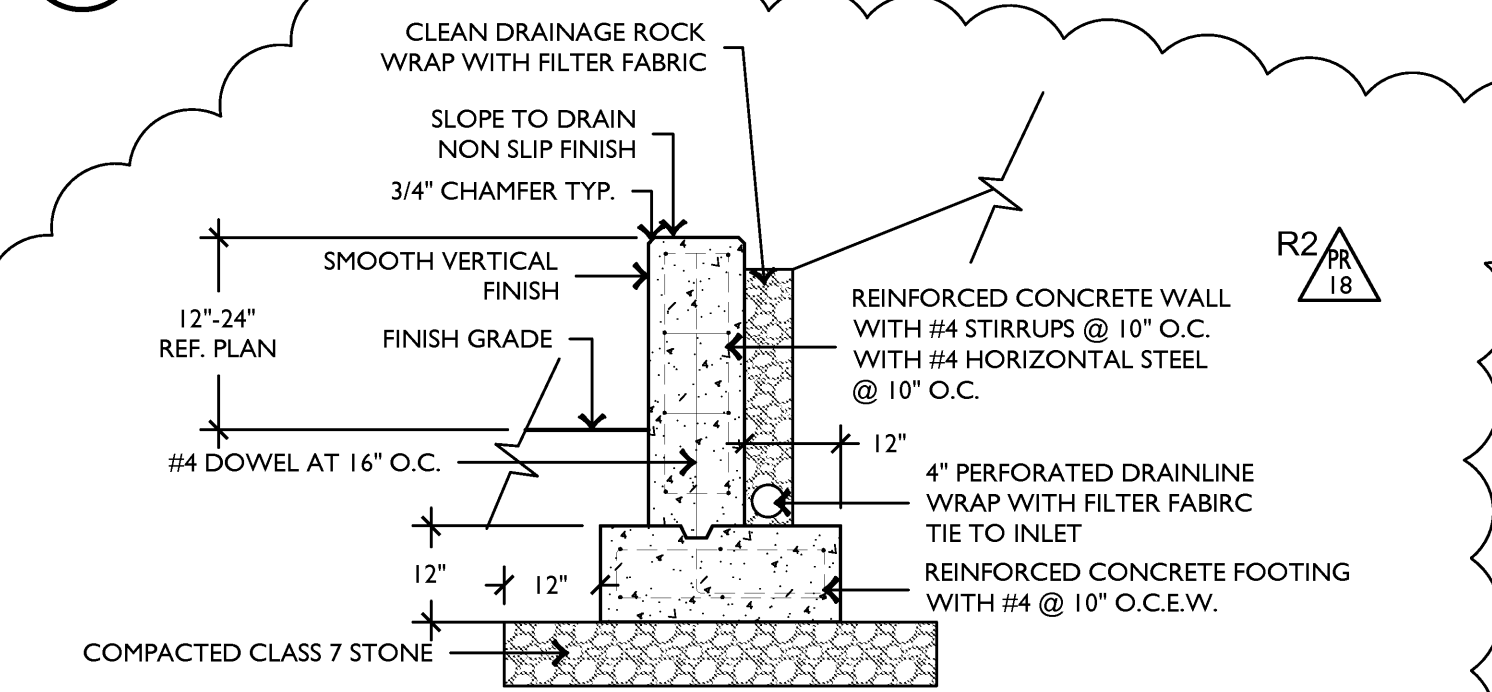
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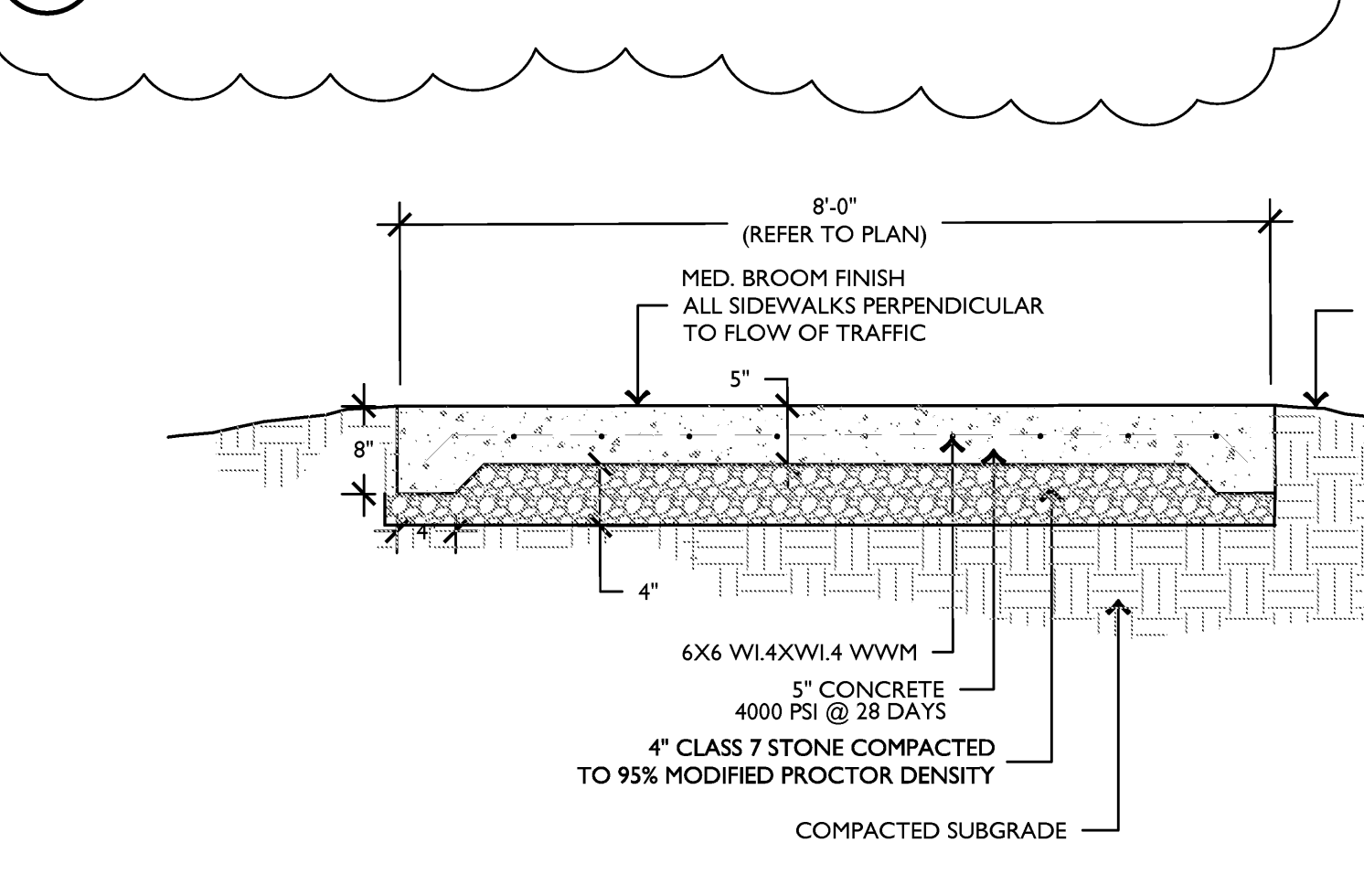
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Modifies: EROSION CONTROL PLAN
Sheet Number: **C3.0**



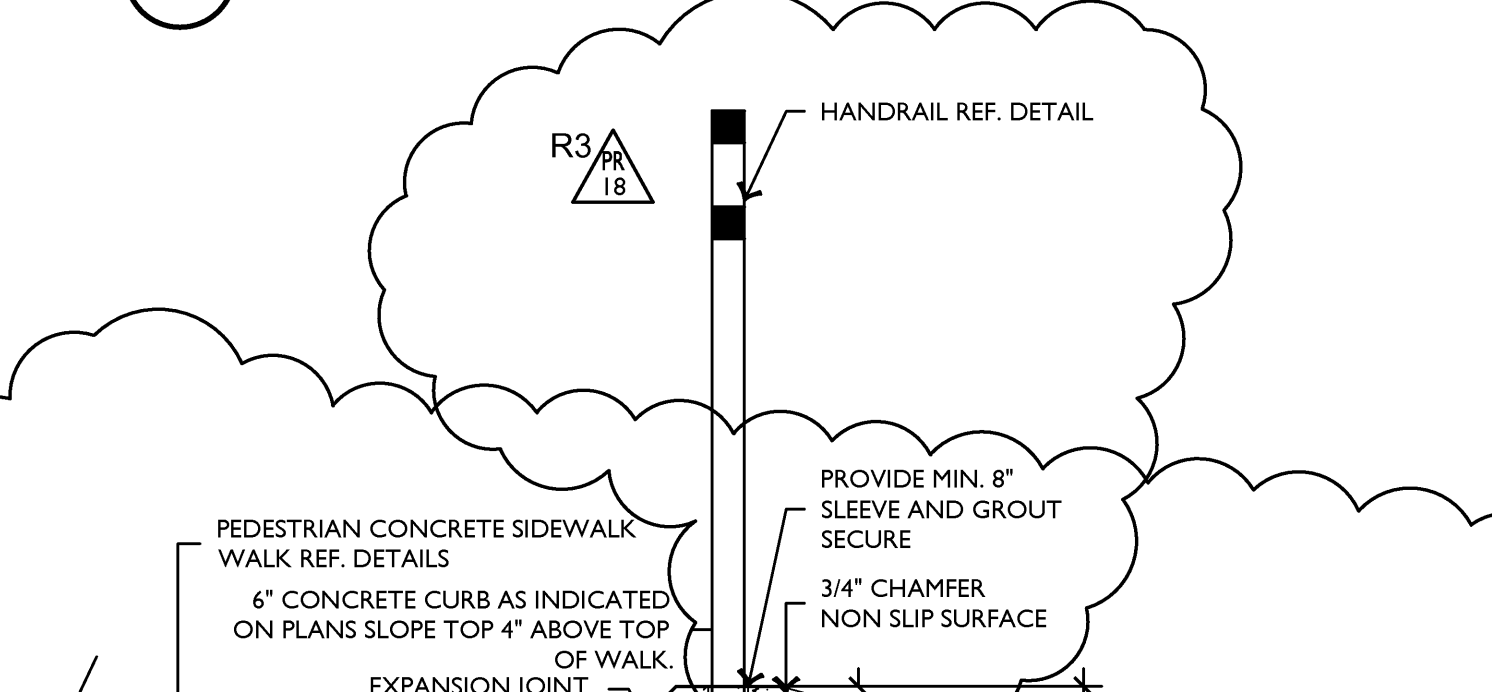
1 NYLOPLAST CATCH BASIN SECTION SCALE: N.T.S.



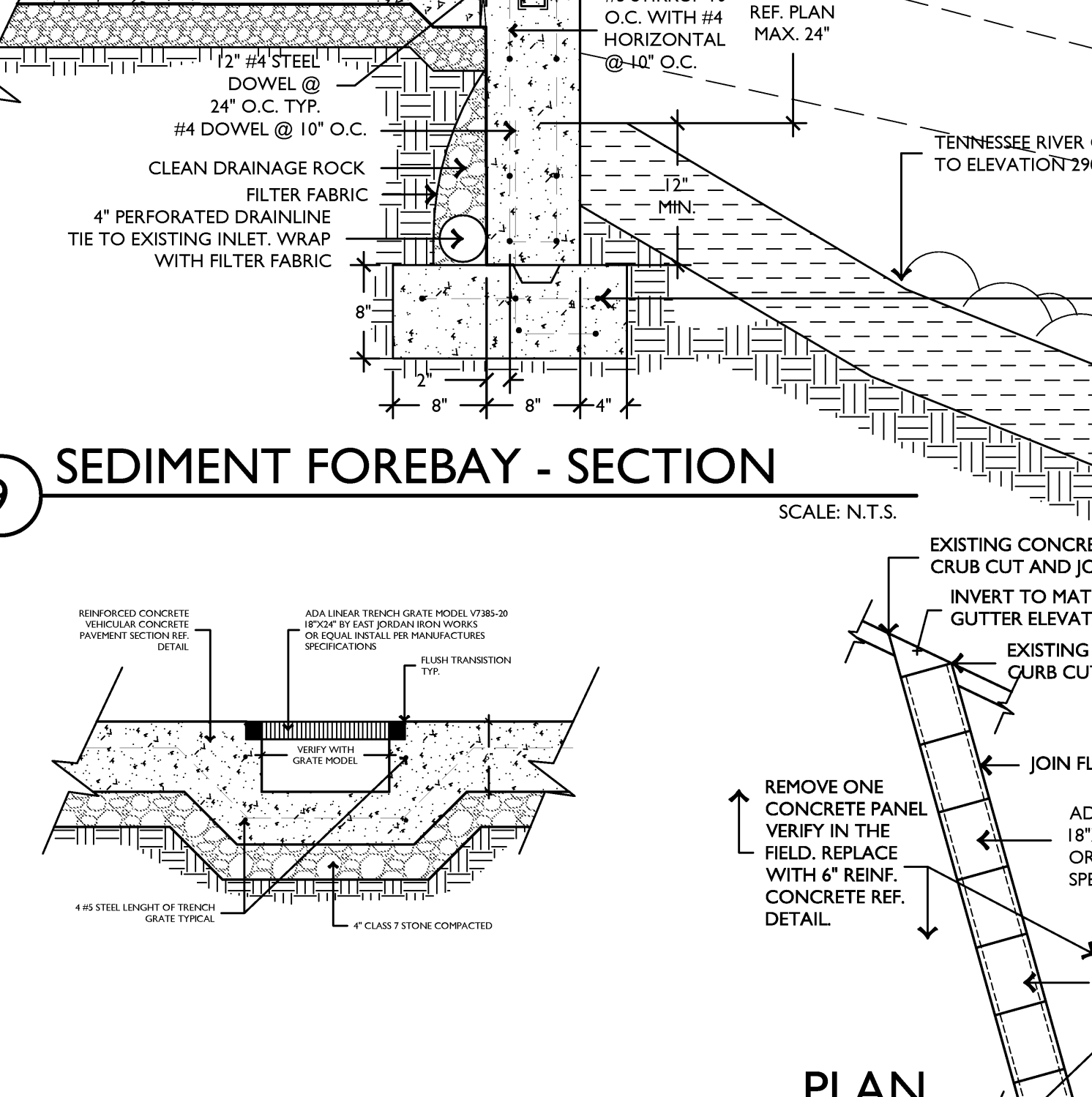
8 CONCRETE WALL AT INLET DETAIL SCALE: N.T.S.



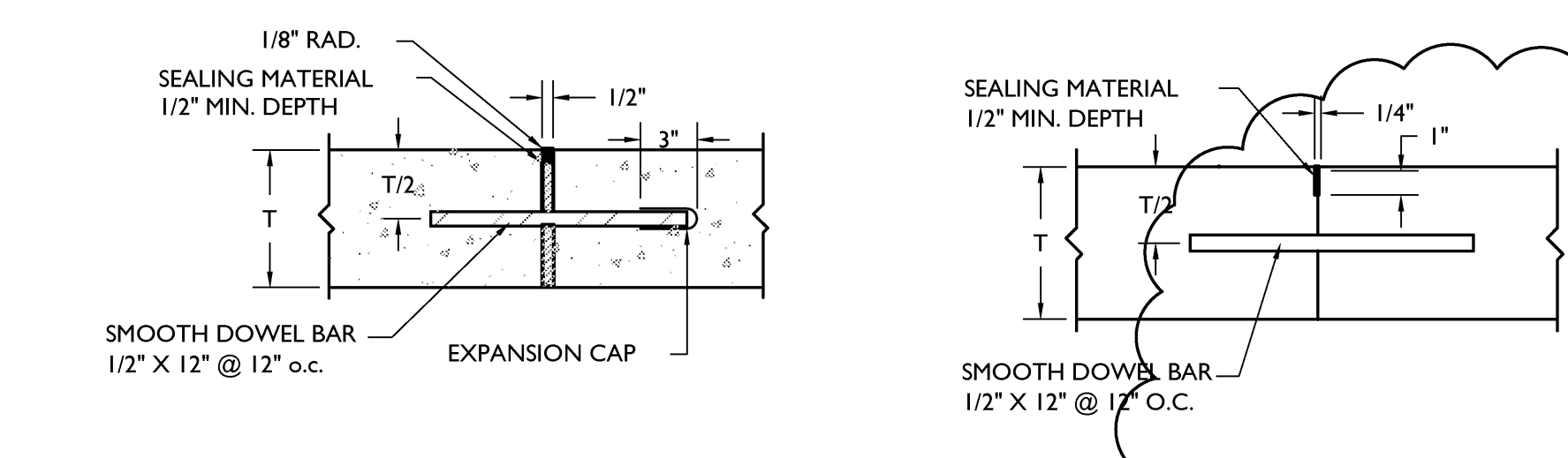
5 PEDESTRIAN ONLY SIDEWALK SECTION SCALE: N.T.S.



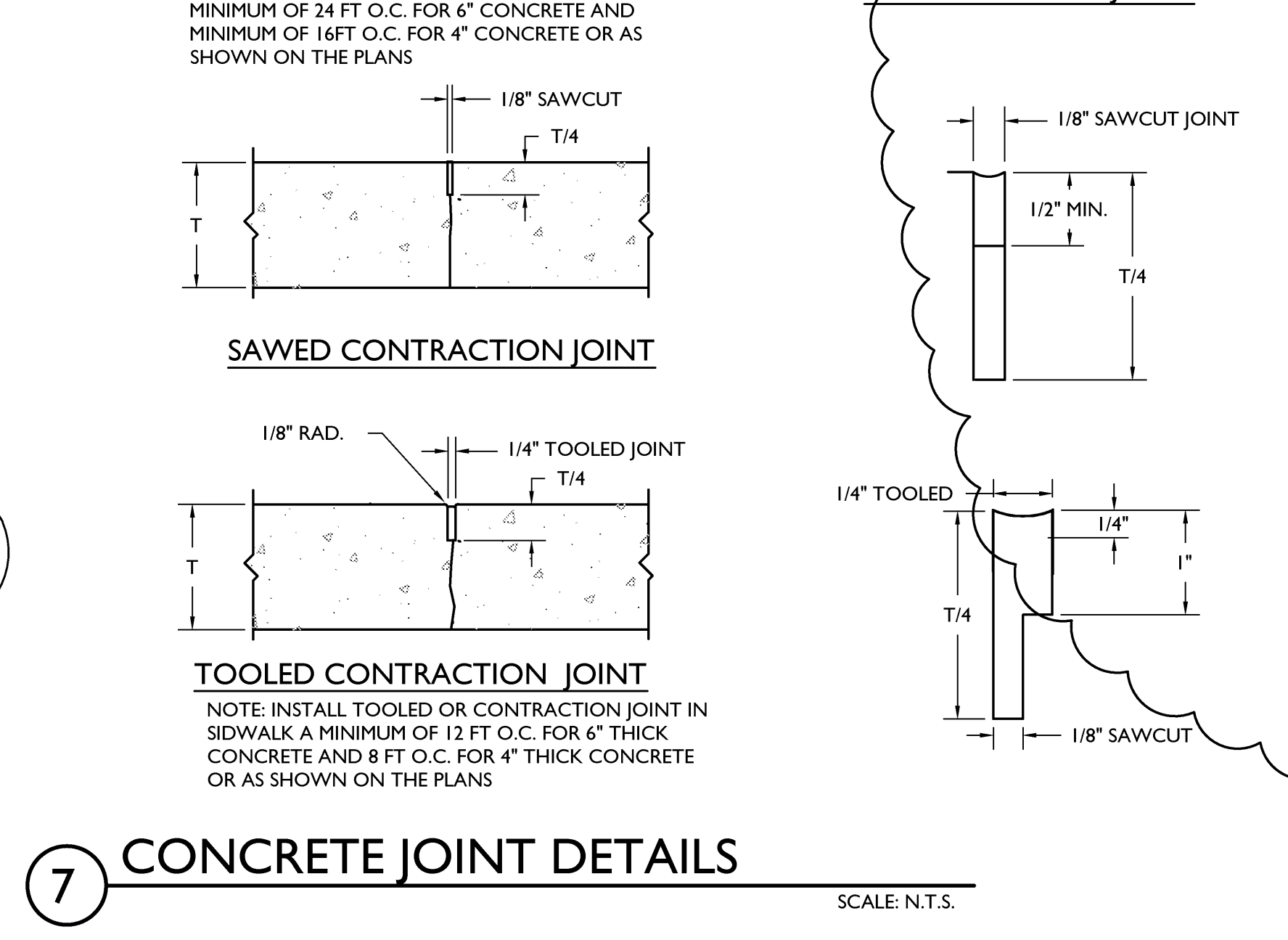
9 SEDIMENT FOREBAY - SECTION SCALE: N.T.S.



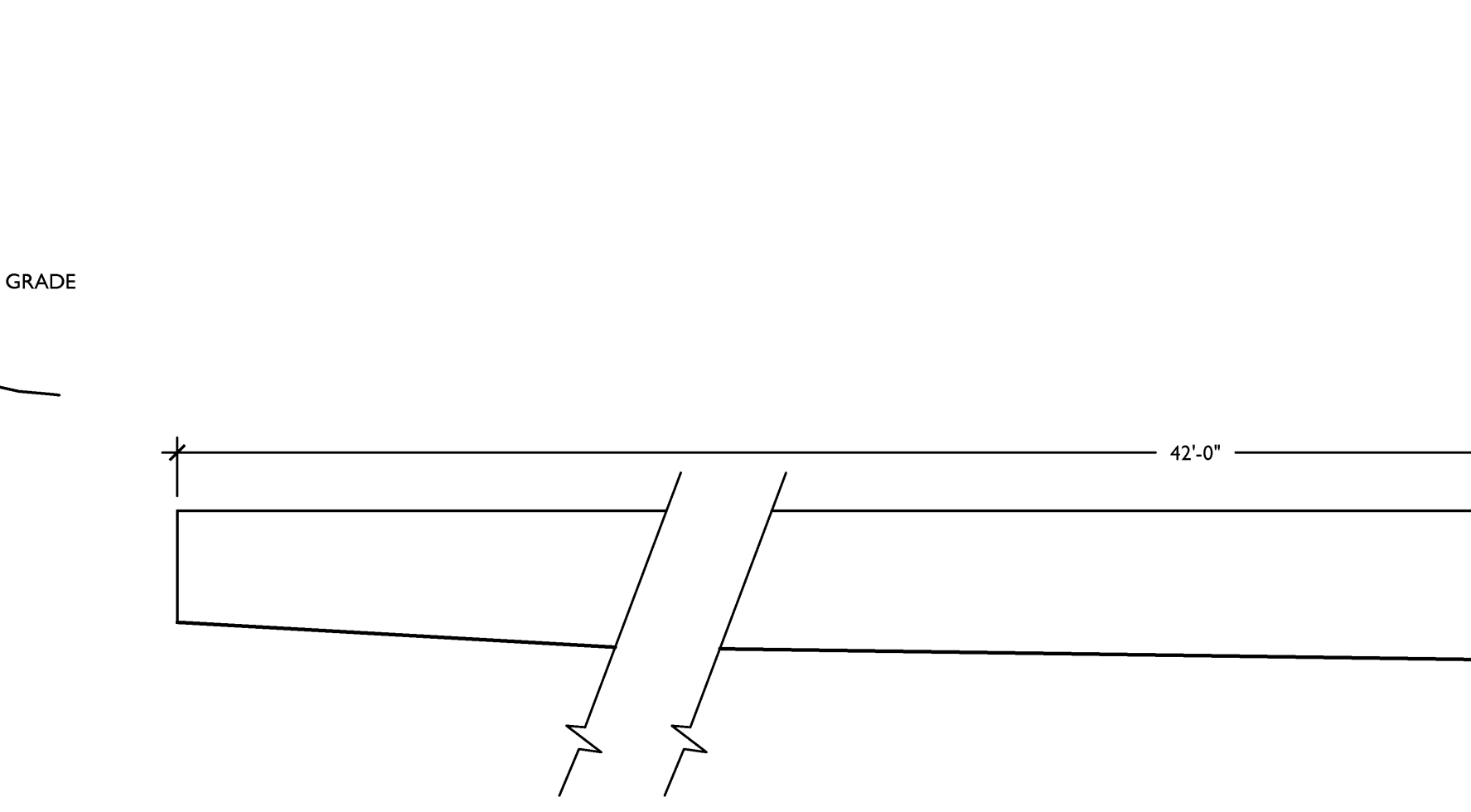
9B TRENCH GRATE DRAIN SCALE: N.T.S.



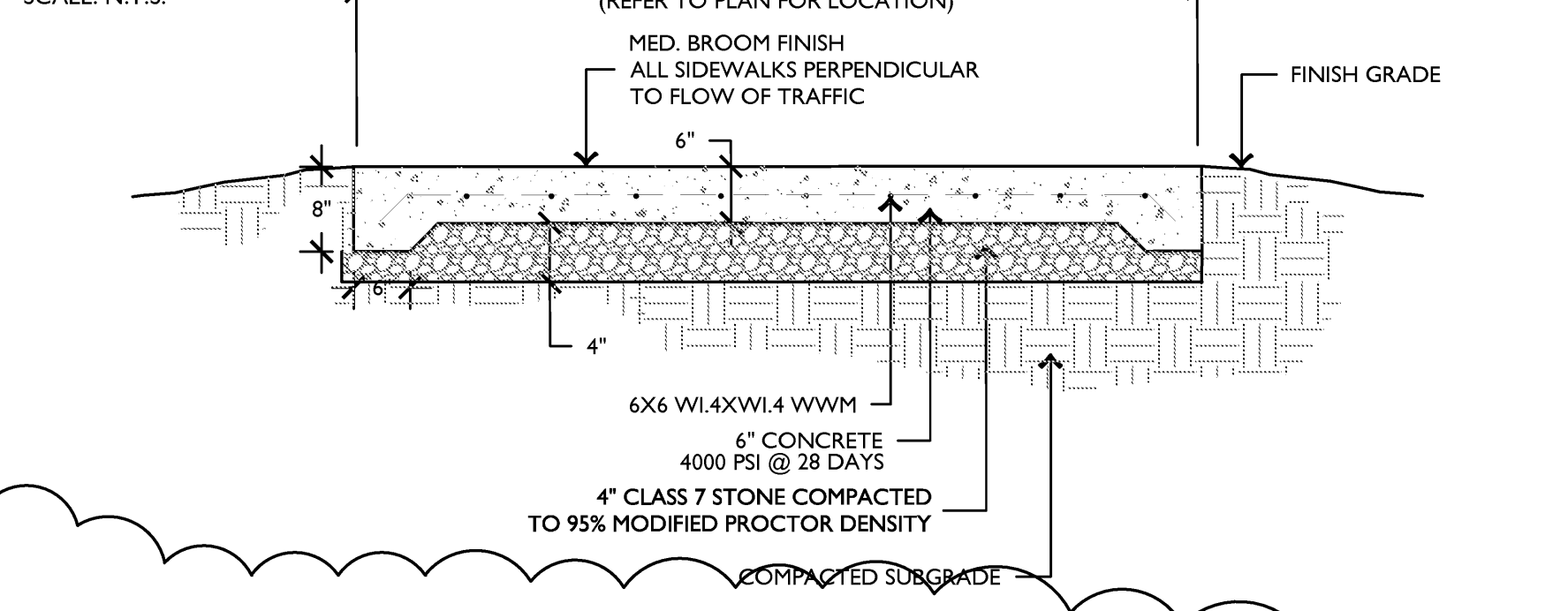
7 CONCRETE JOINT DETAILS SCALE: N.T.S.



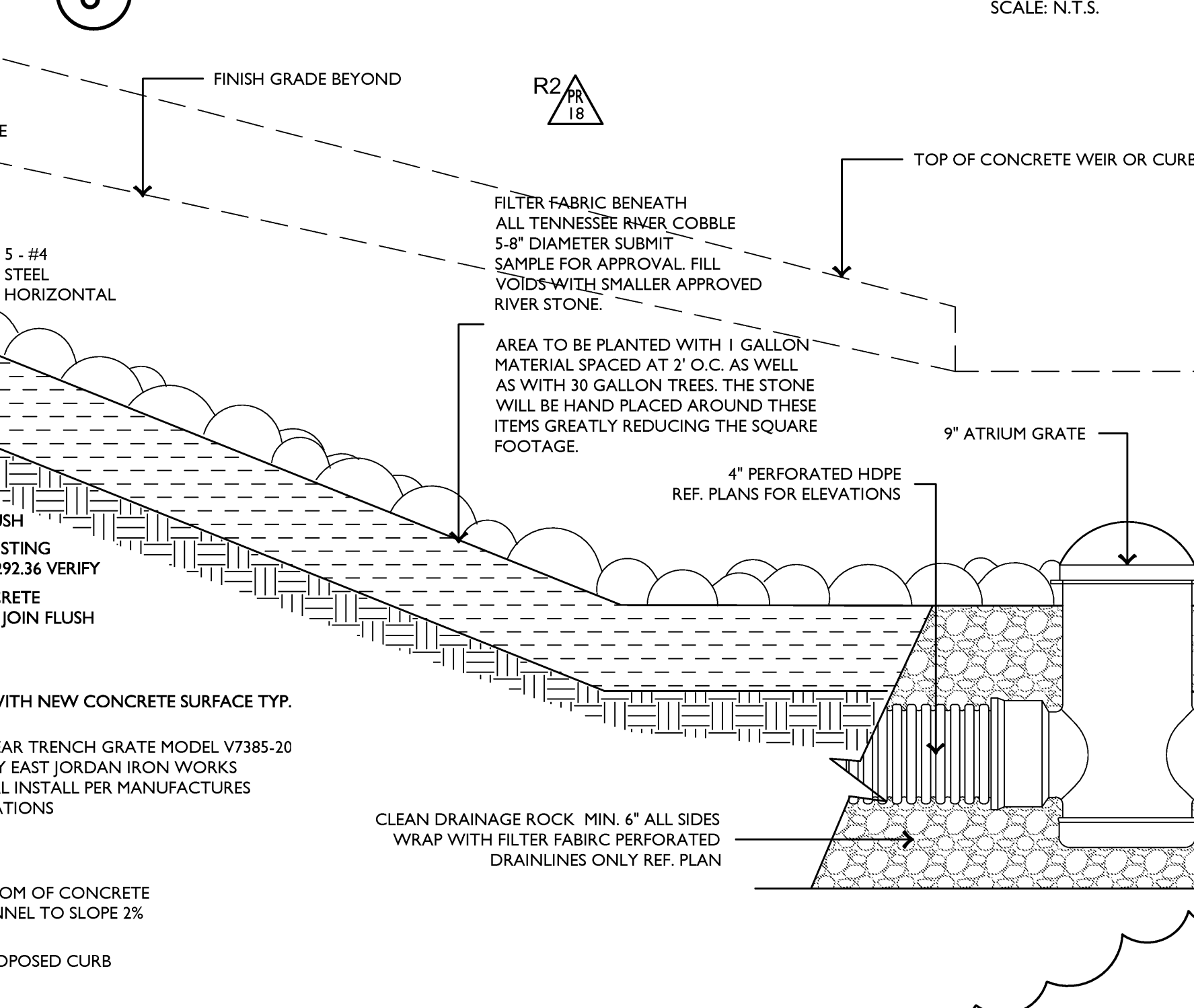
6 VEHICULAR TRAFFIC SIDEWALK SECTION SCALE: N.T.S.



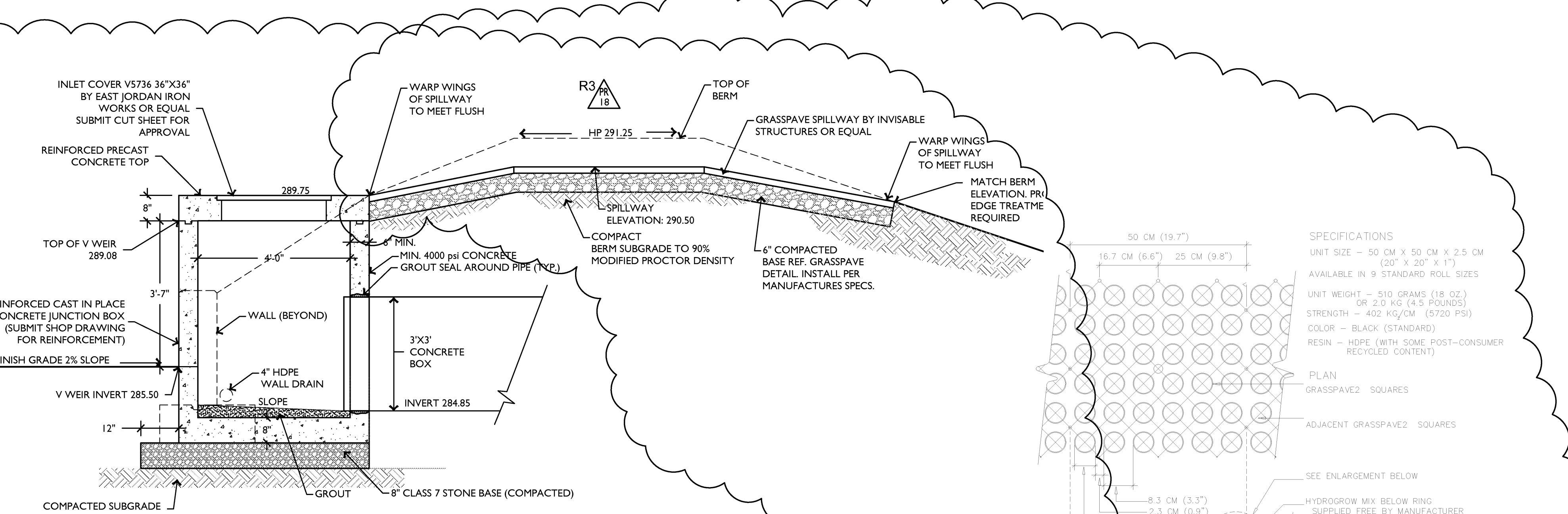
6 VEHICULAR TRAFFIC SIDEWALK SECTION SCALE: N.T.S.



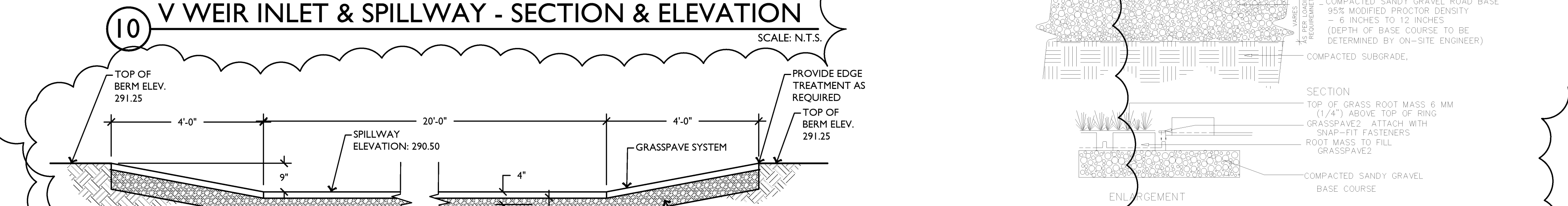
6 VEHICULAR TRAFFIC SIDEWALK SECTION SCALE: N.T.S.



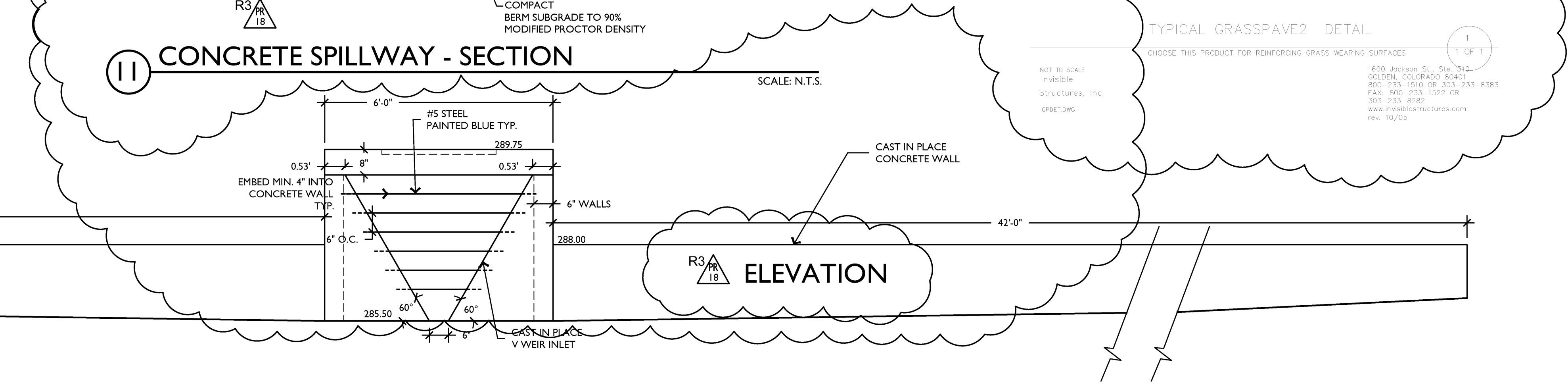
6 VEHICULAR TRAFFIC SIDEWALK SECTION SCALE: N.T.S.



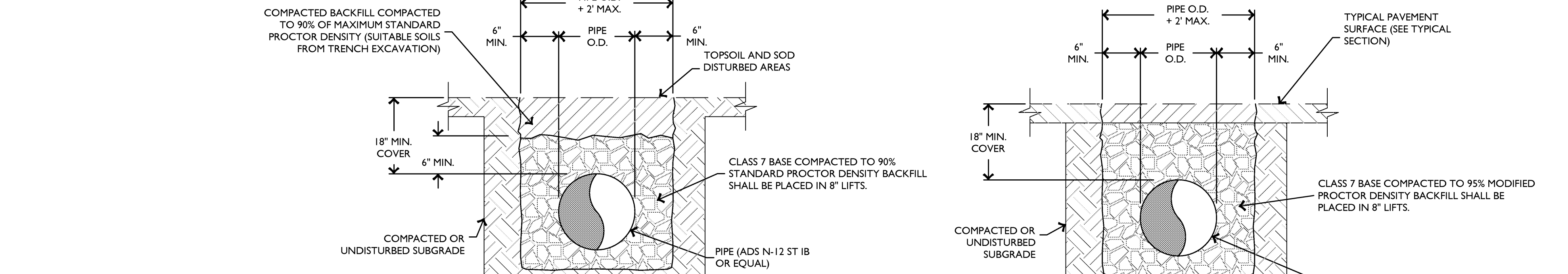
10 V WEIR INLET & SPILLWAY - SECTION & ELEVATION SCALE: N.T.S.



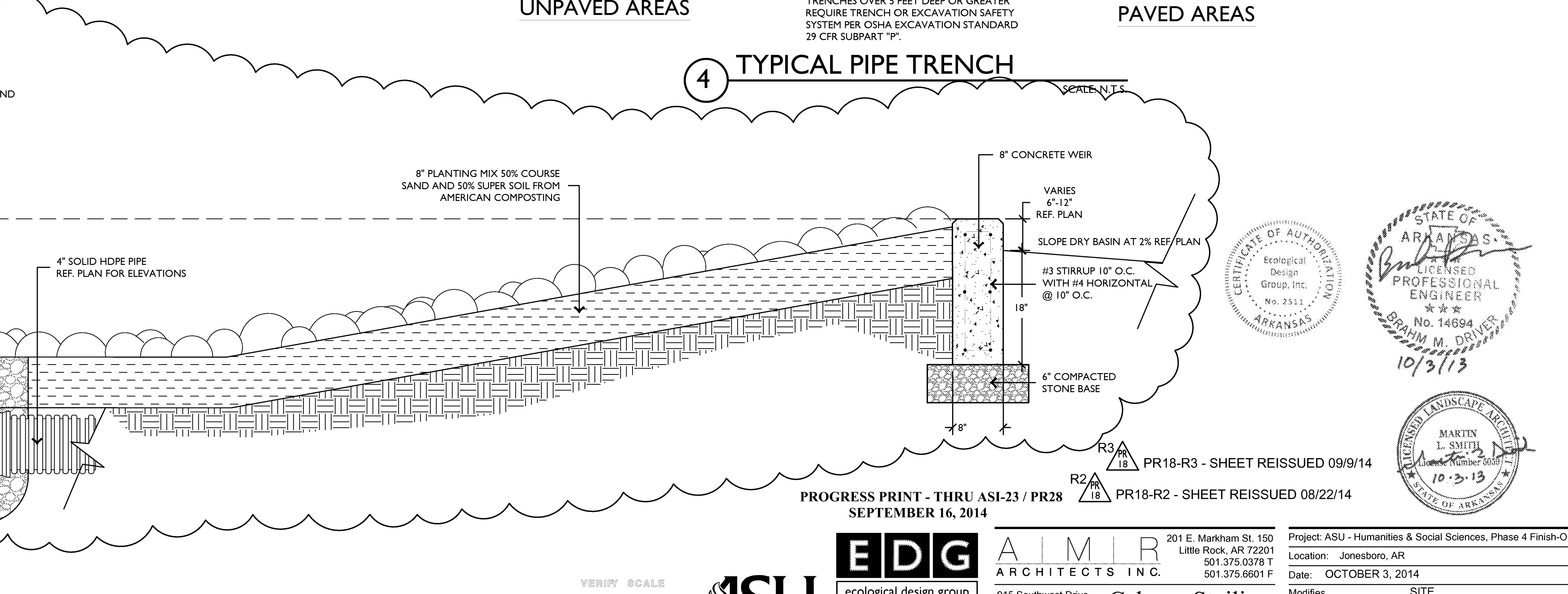
11 CONCRETE SPILLWAY - SECTION SCALE: N.T.S.



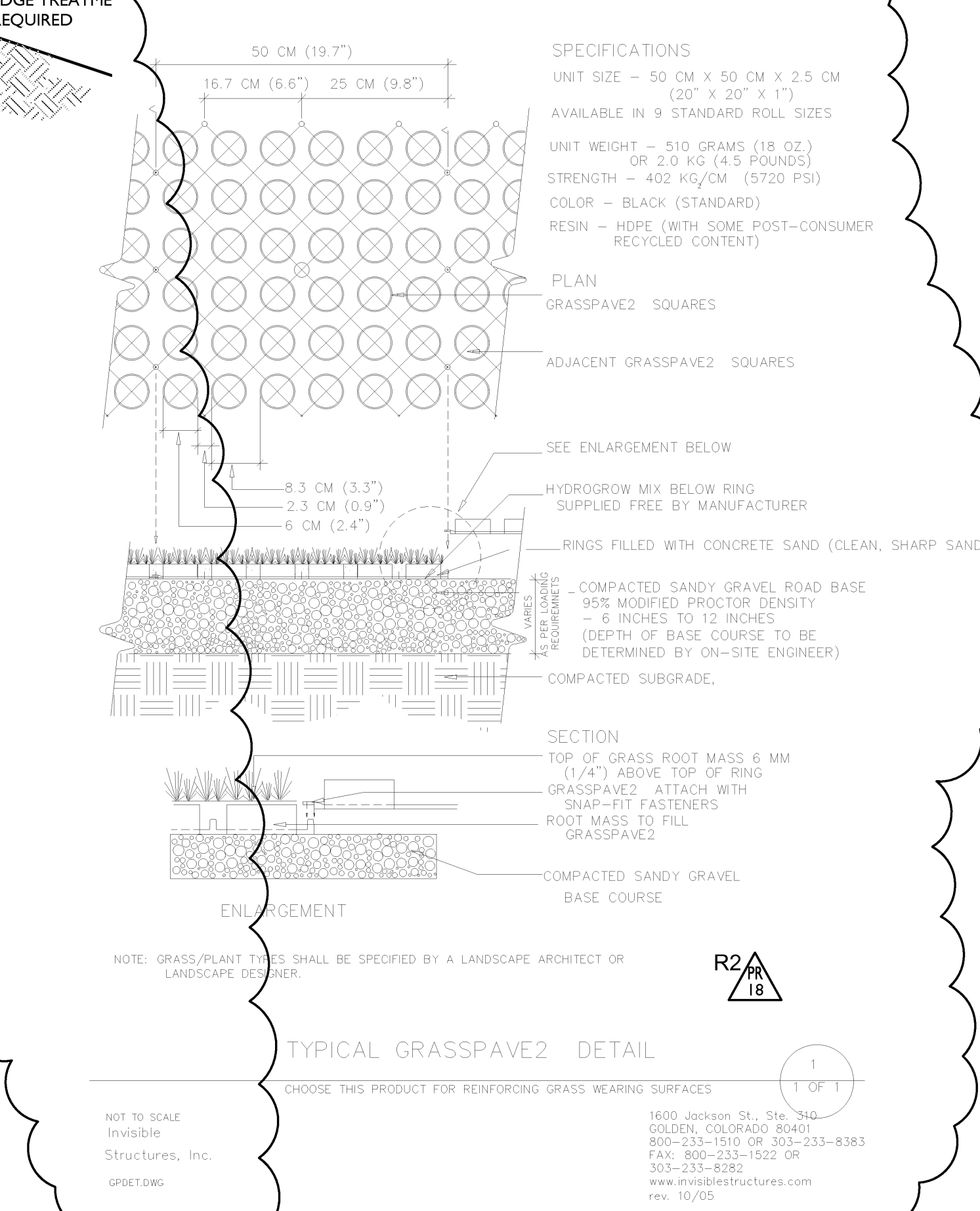
11 CONCRETE SPILLWAY - ELEVATION SCALE: N.T.S.



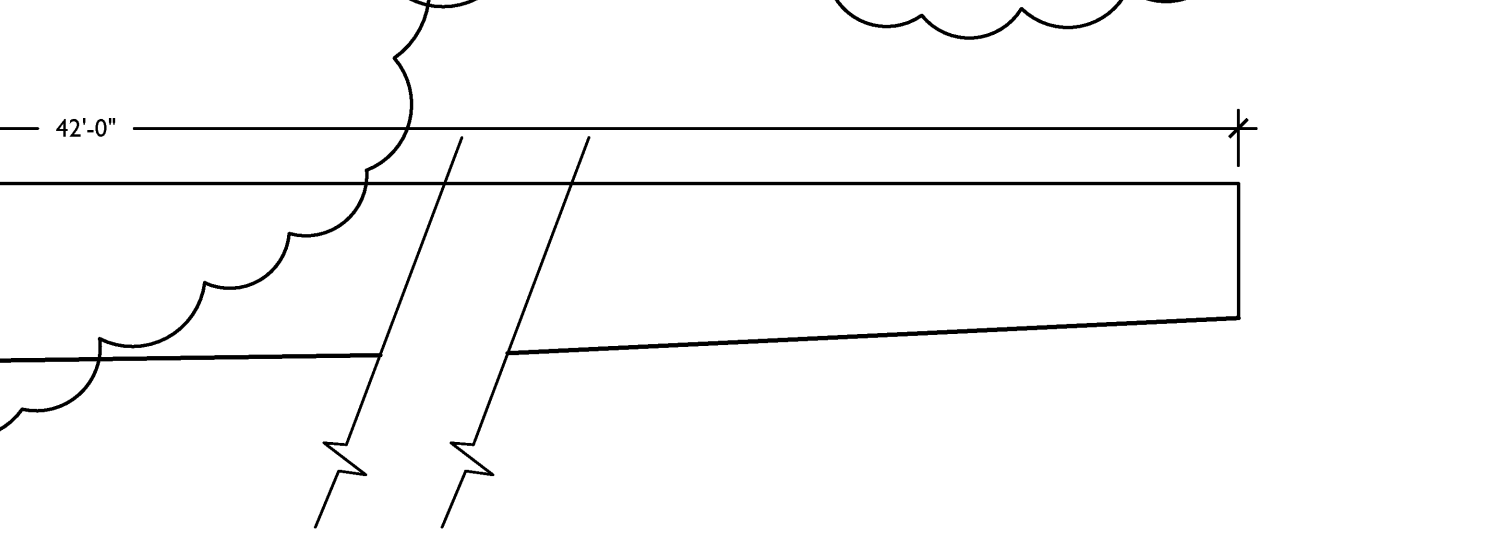
4 TYPICAL PIPE TRENCH SCALE: N.T.S.



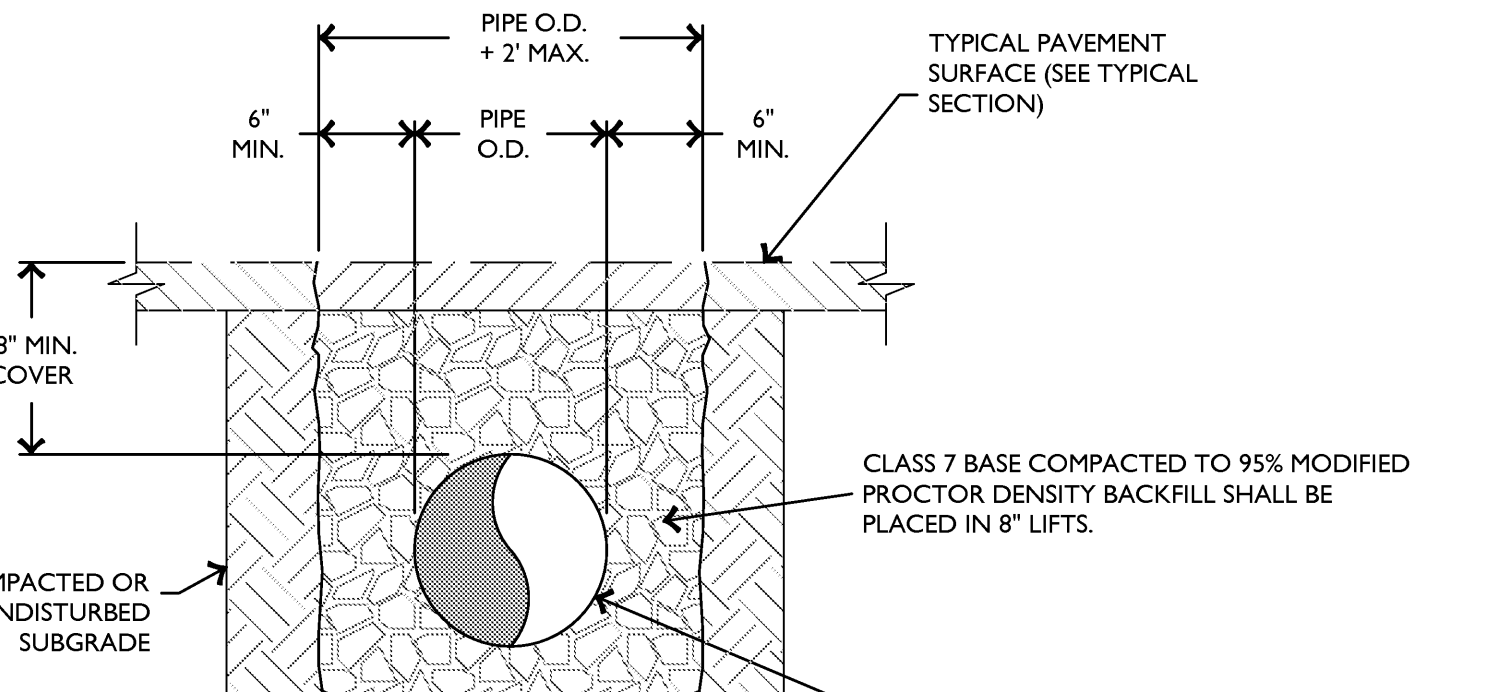
4 TYPICAL PIPE TRENCH SCALE: N.T.S.



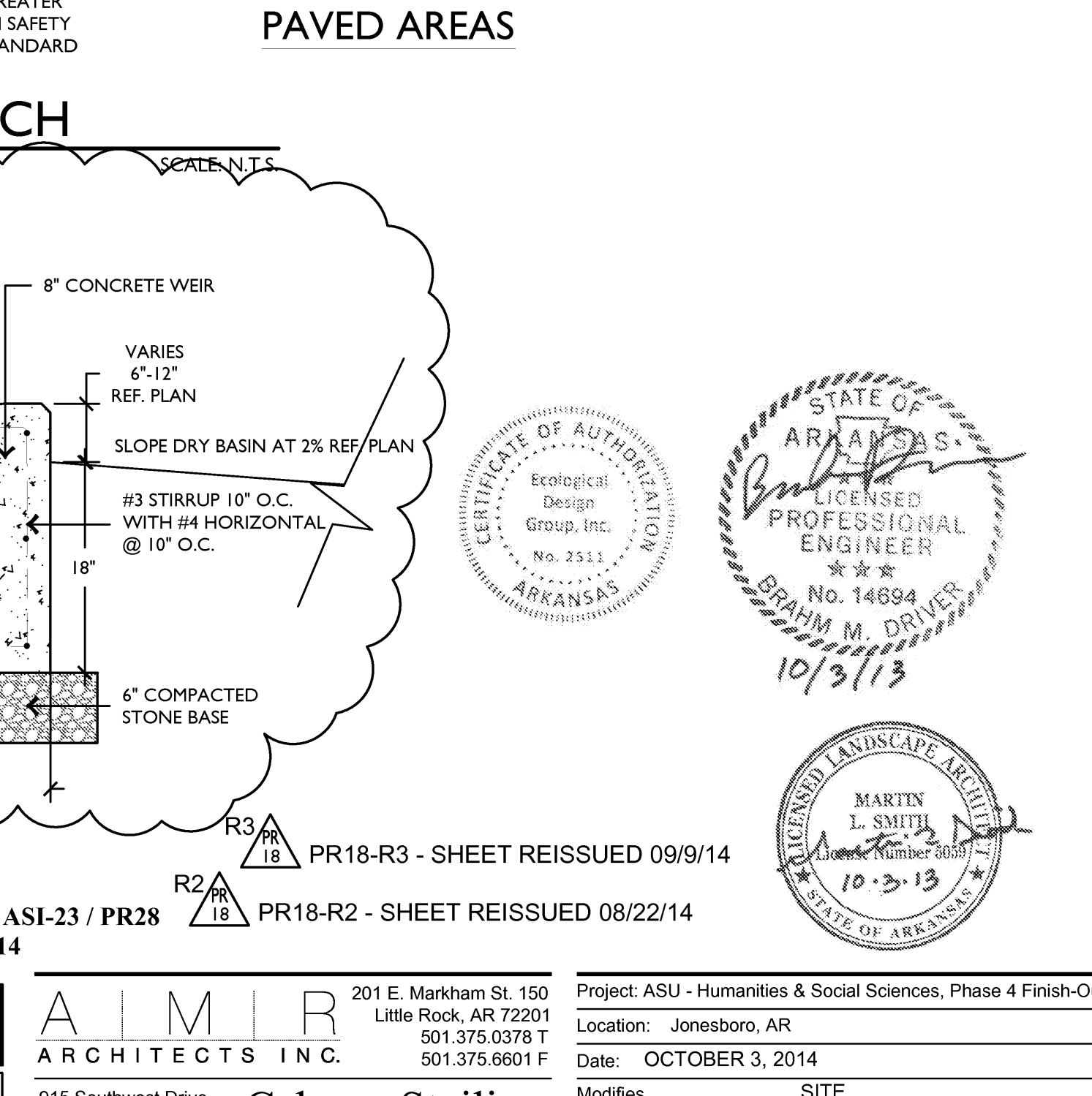
TYPICAL GRASSPAVE2 DETAIL SCALE: N.T.S.



TYPICAL GRASSPAVE2 DETAIL SCALE: N.T.S.



TYPICAL GRASSPAVE2 DETAIL SCALE: N.T.S.



TYPICAL GRASSPAVE2 DETAIL SCALE: N.T.S.

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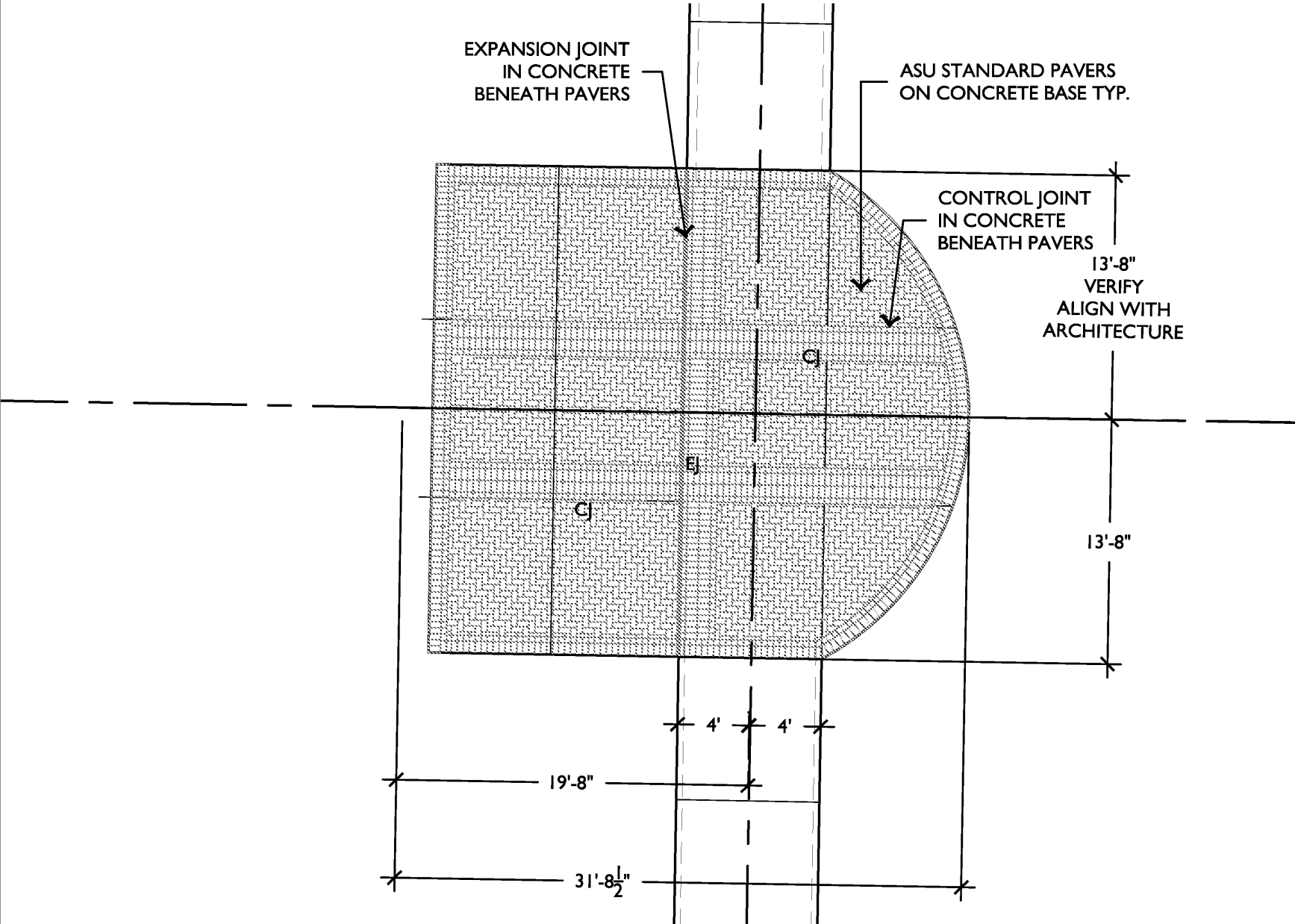
PR18-R3 - SHEET REISSUED 09/9/14
PR18-R2 - SHEET REISSUED 08/22/14

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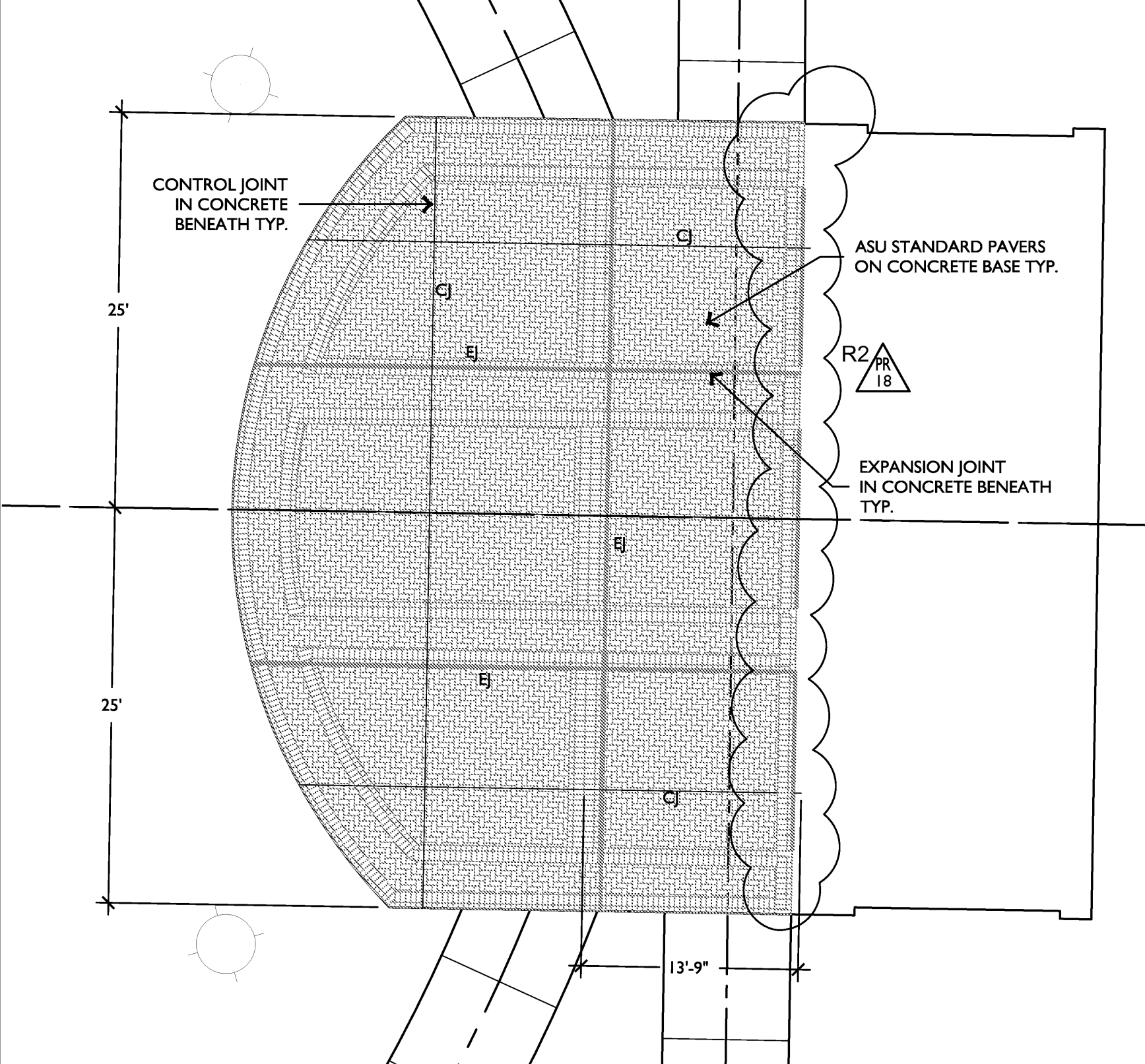
ASU ARKANSAS STATE UNIVERSITY ecological design group 915 Southwest Drive Jonesboro, AR 72401

CAHOON STEILING STUDIO 210 E. Merriam Ave. # 870.588.6426 Little Rock, AR 72201

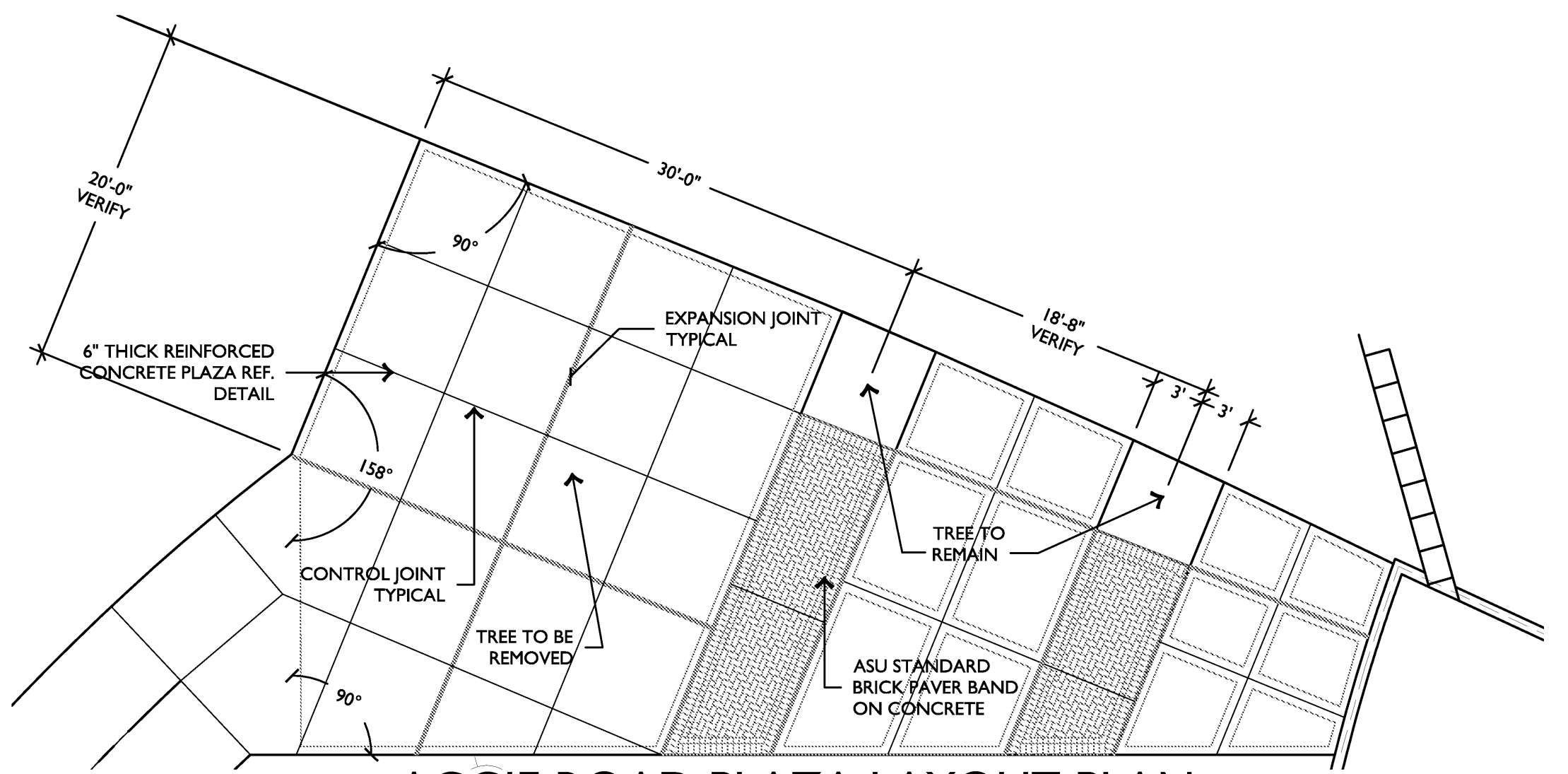




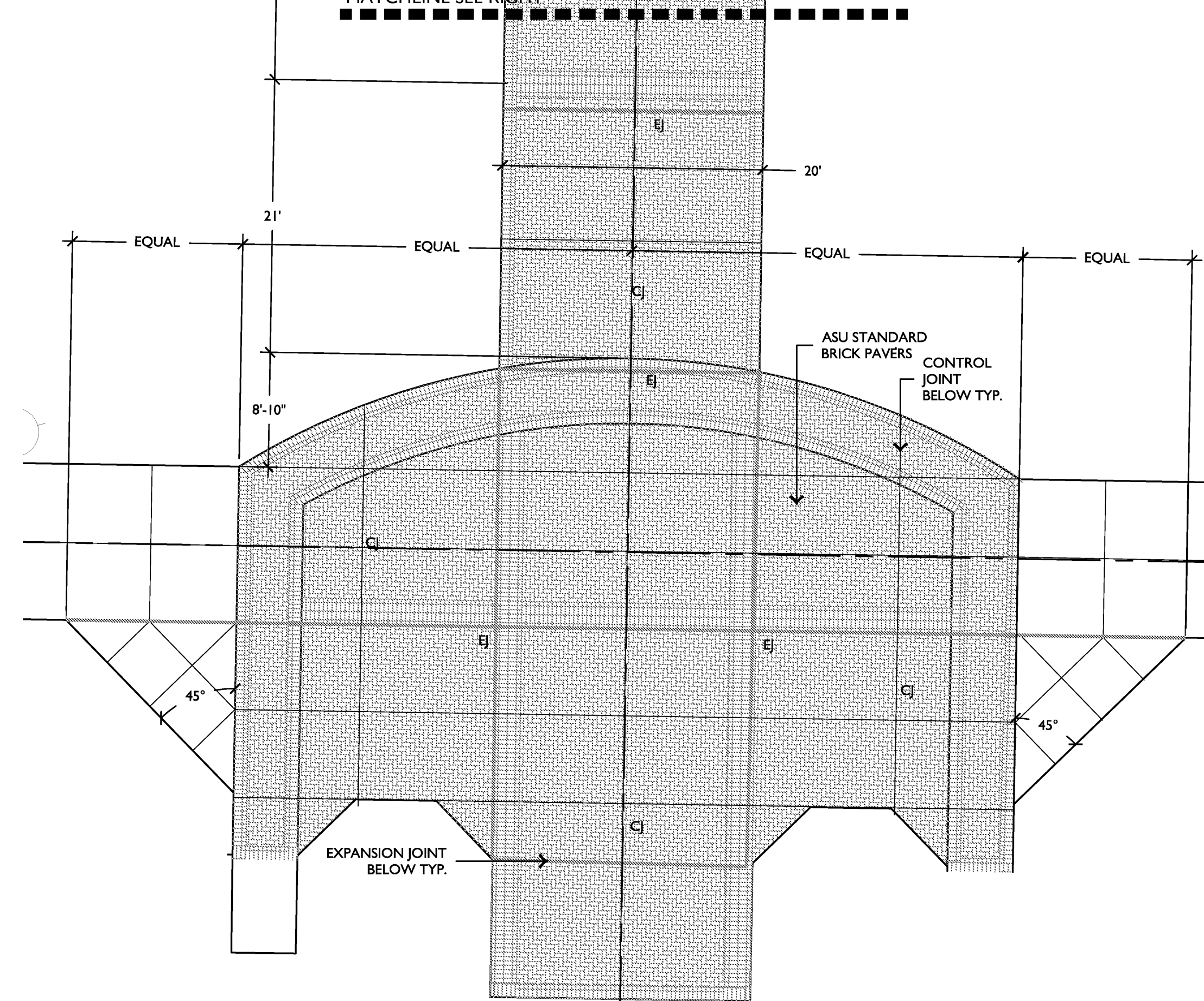
1 EAST PLAZA PLAN PEDESTRIAN SCALE: 1/8"=1'



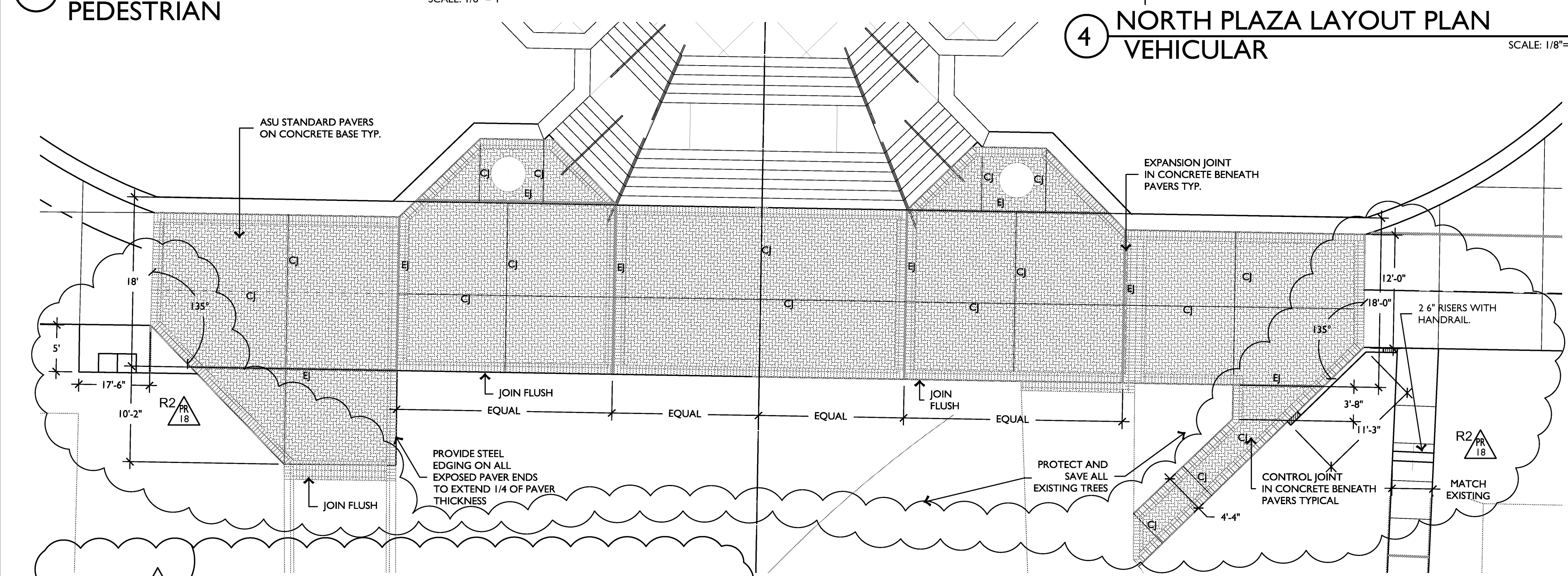
3 WEST PLAZA LAYOUT PLAN PEDESTRIAN SCALE: 1/8"=1'



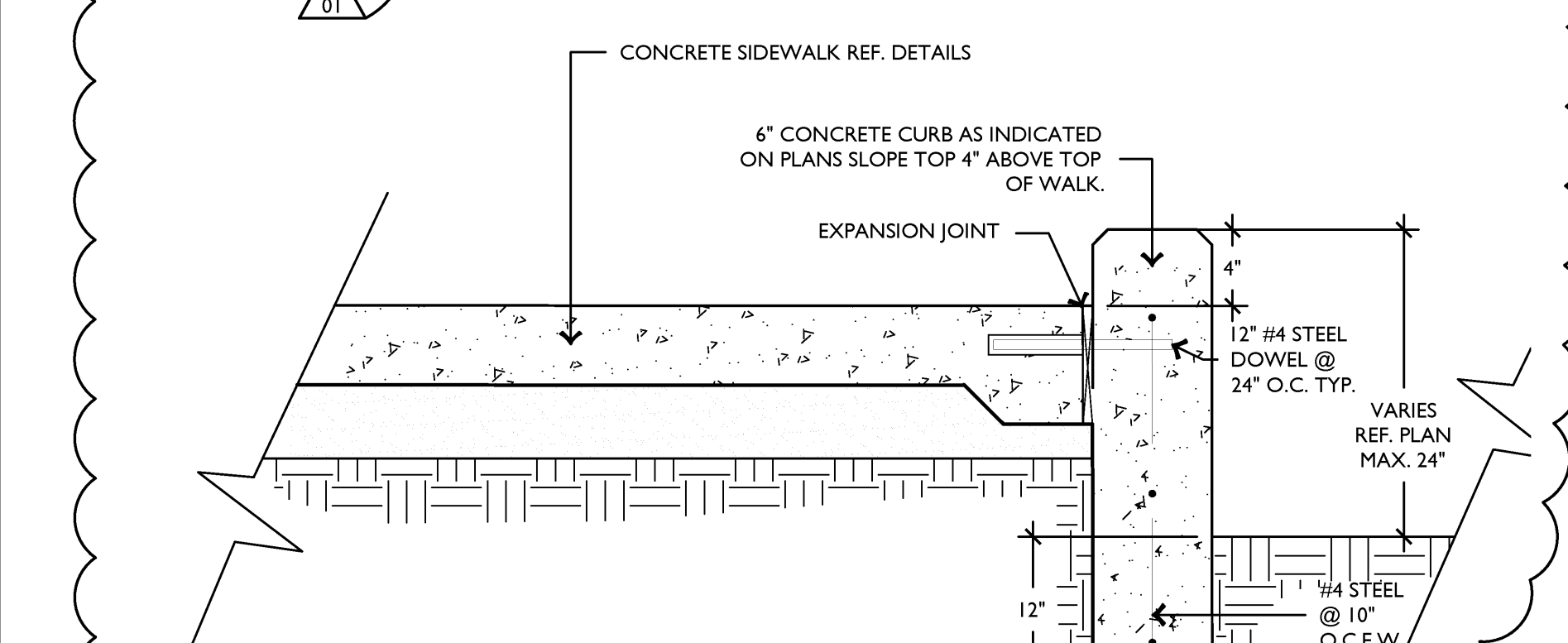
2 AGGIE ROAD PLAZA LAYOUT PLAN VEHICULAR MATCHLINE SEE RIGHT SCALE: 1/8"=1'



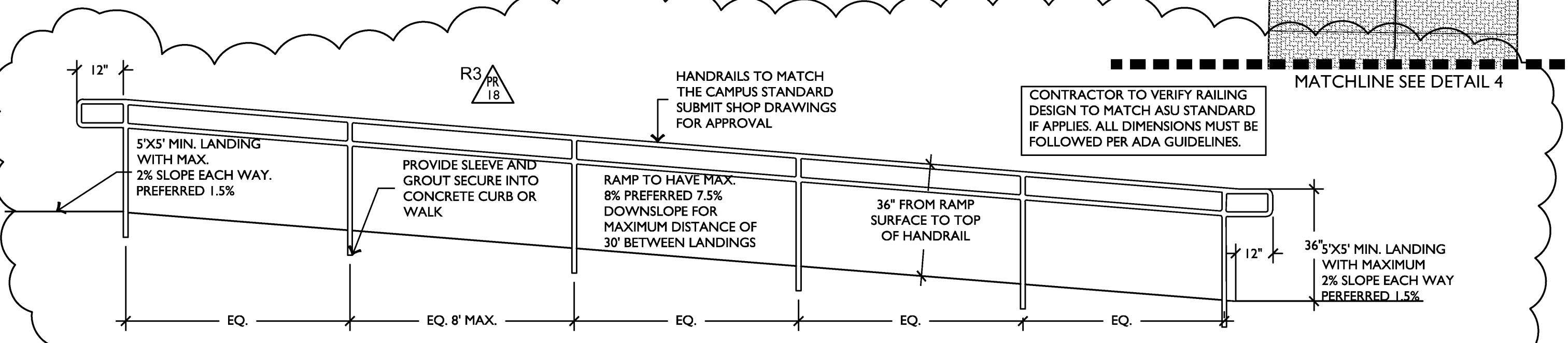
4 NORTH PLAZA LAYOUT PLAN VEHICULAR SCALE: 1/8"=1'



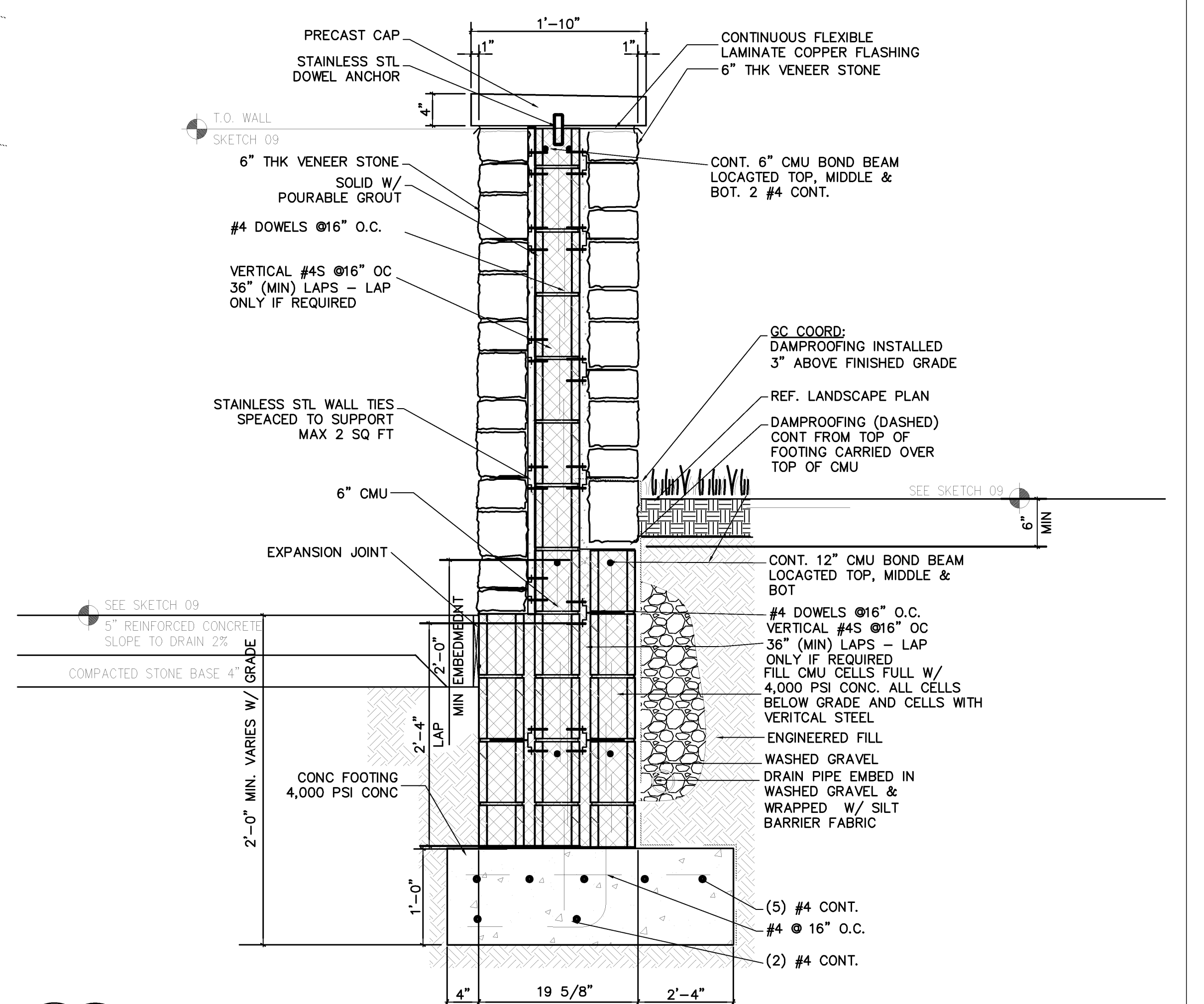
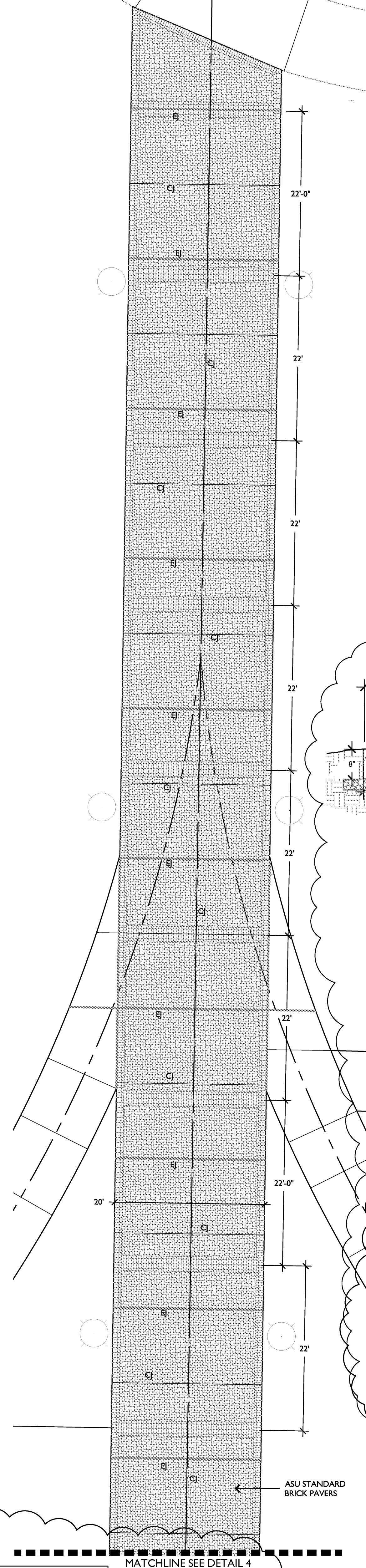
5 SOUTH PLAZA LAYOUT PLAN VEHICULAR SCALE: 1/8"=1'



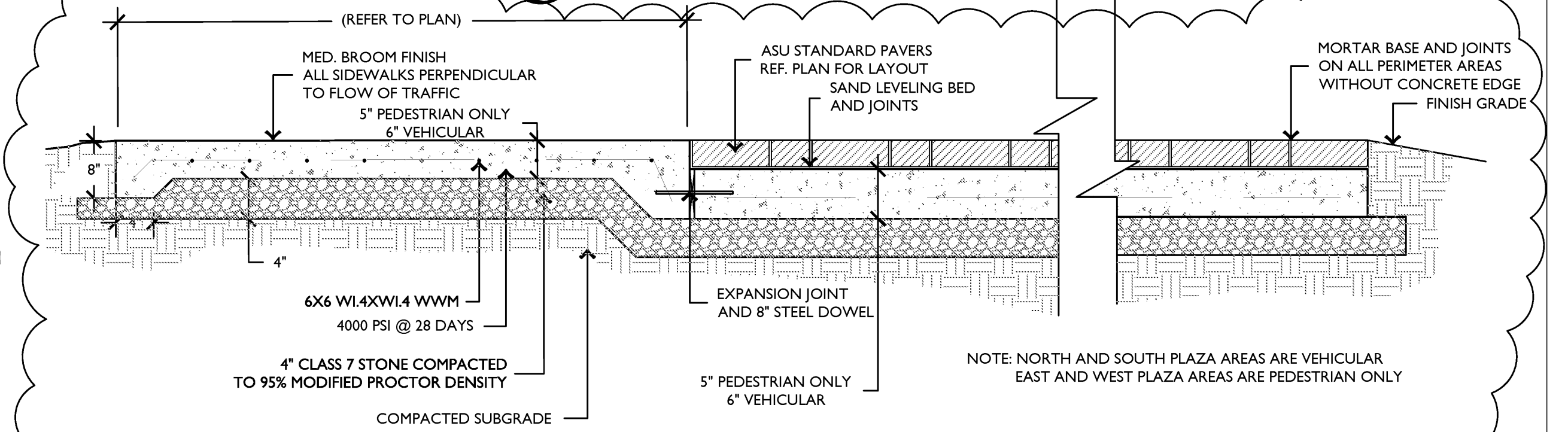
9 CONCRETE CURB AT WALK SCALE: 1"=1/2'



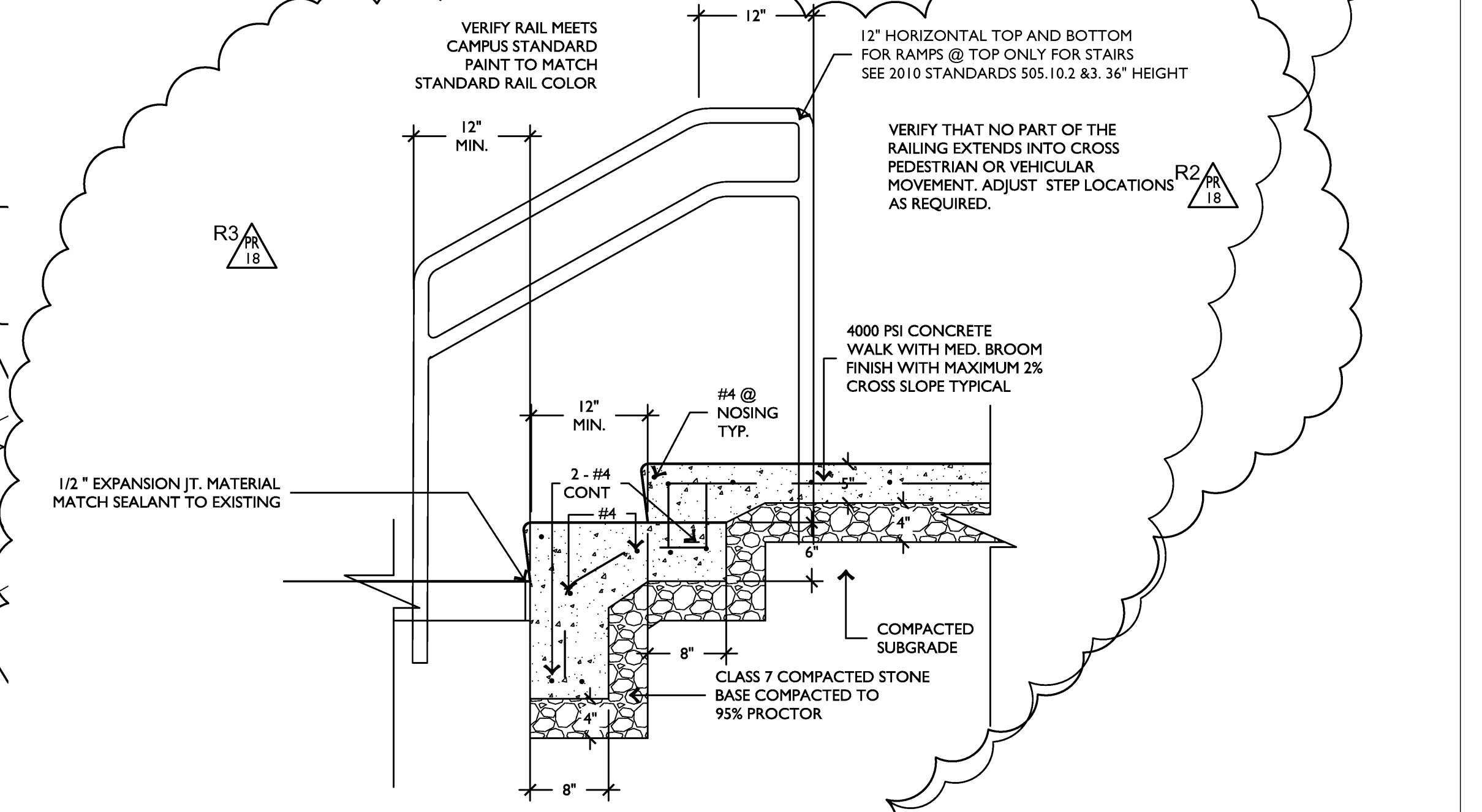
6 RAILING AT RAMPS SCALE: NTS



7 STONE WALL AT ELECTRICAL PANEL SCALE: NTS



8 ASU STANDARD PAVERS ON CONCRETE SCALE: NTS



10 CONCRETE STEPS WITH RAILING SCALE: NTS

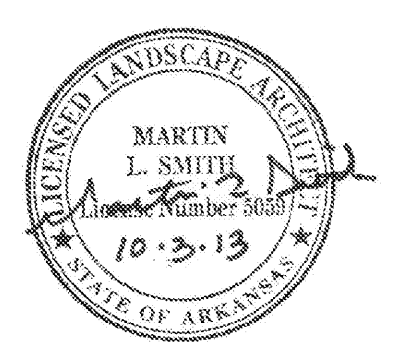
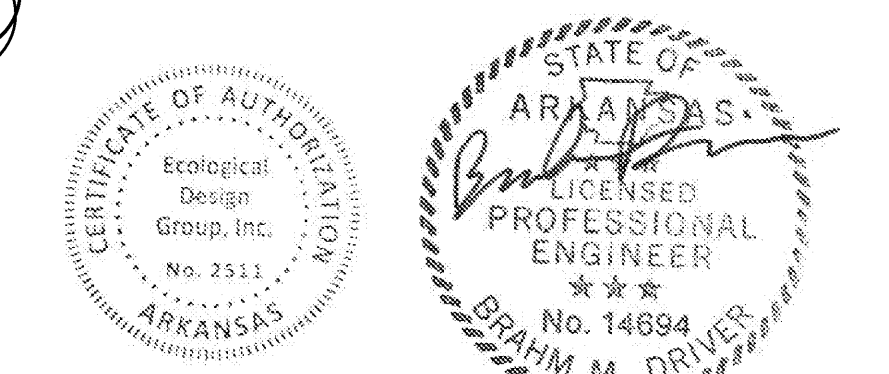
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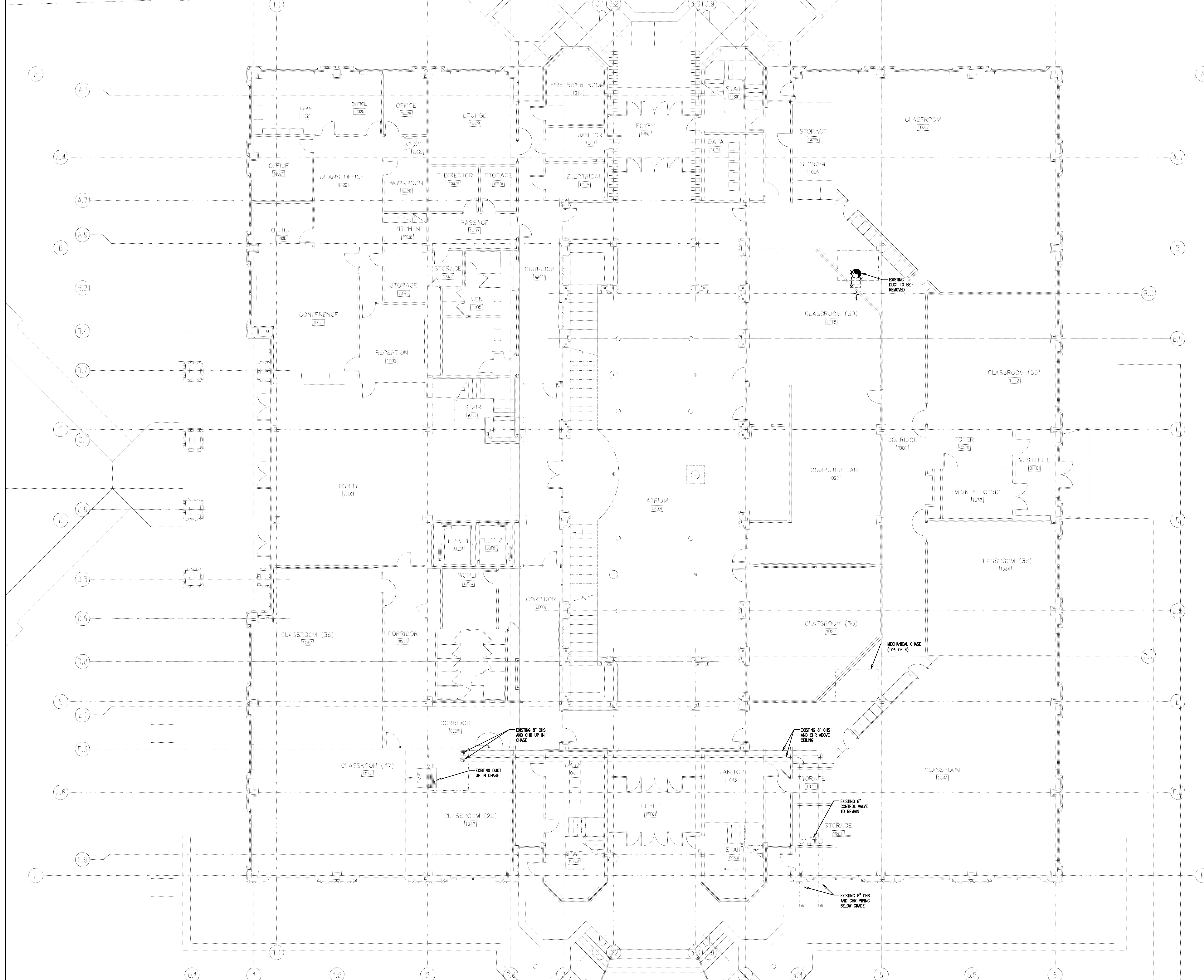
ecological design group
120 S. Izard Street
Little Rock, AR 72201
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: OCTOBER 3, 2014
Modifies: PLAZA LAYOUT
Sheet Number: C4.1



- PR18-R3 - SHEET REISSUED 09/9/14
- PR18-R2 - SHEET REISSUED 08/22/14
- PR25 - SHEET REVISED 7/29/14
- PROPOSAL REQUEST-01 01/15/14



DEMOLITION GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN.

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

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



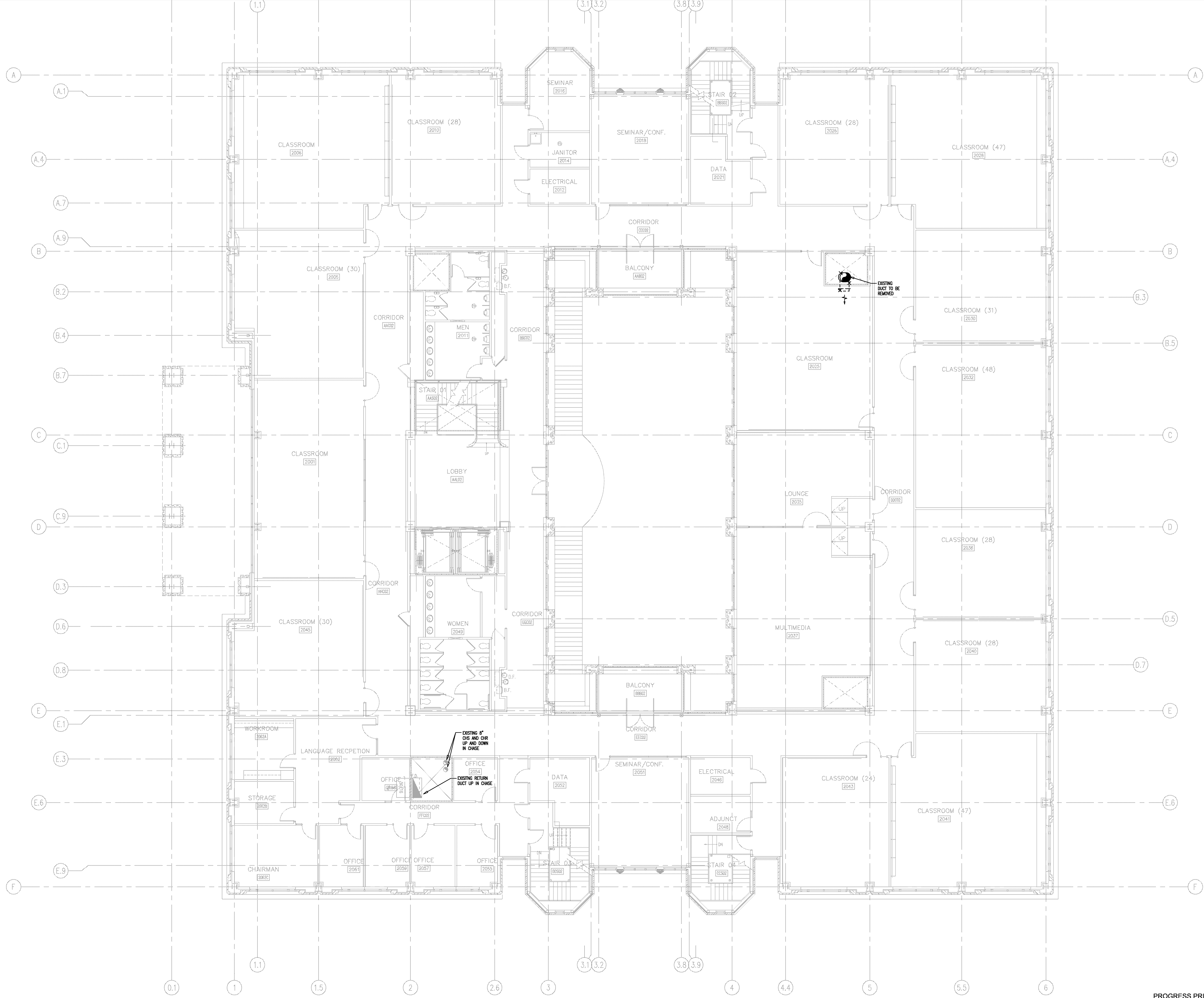
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FIRST FLOOR DEMO PLAN - HVAC
 Sheet Number: **DM1.1**

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- DEMOLITION GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN.

1 SECOND FLOOR DEMO PLAN - HVAC
 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



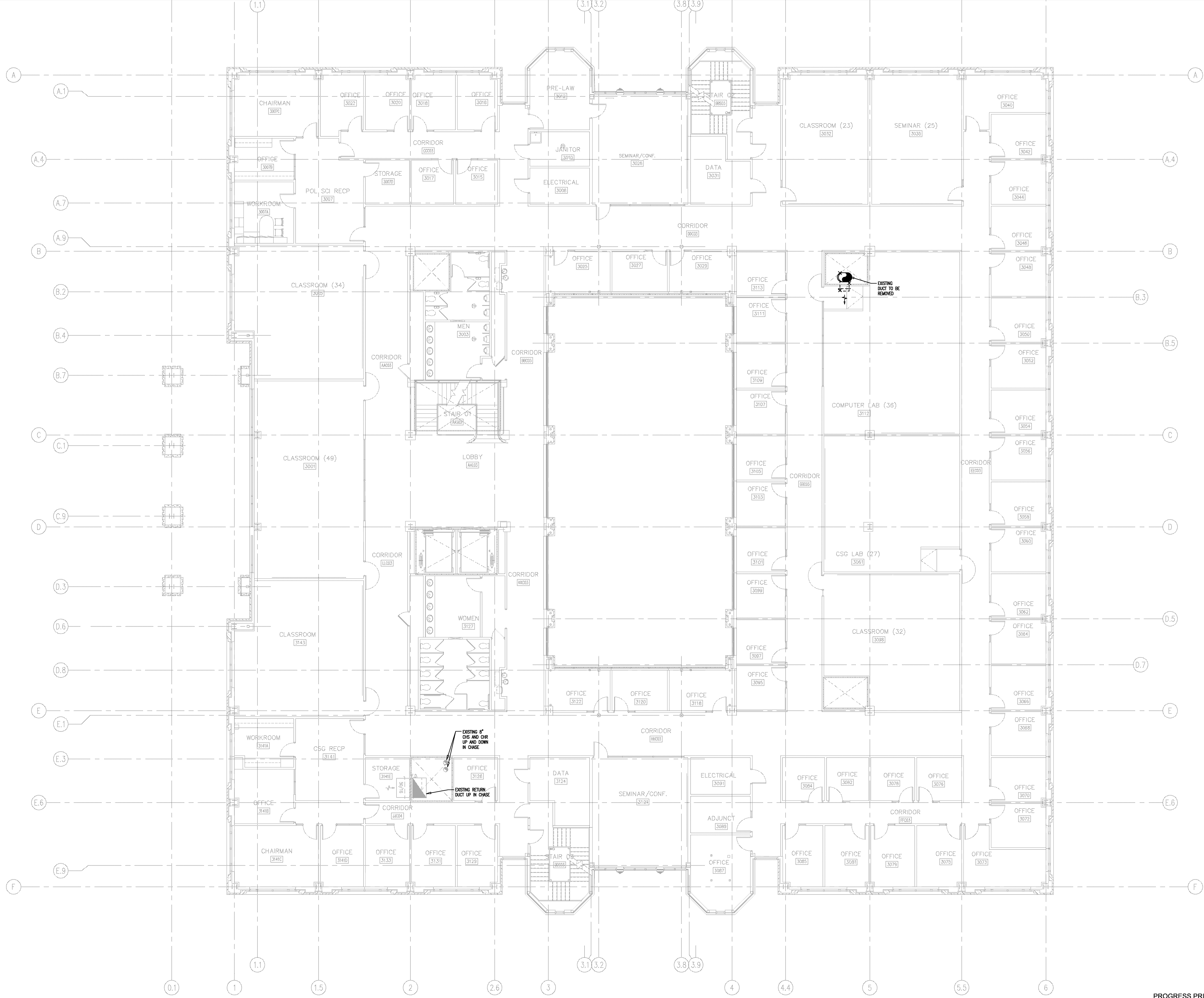
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: SECOND FLOOR DEMO PLAN - HVAC
 Sheet Number: **DM1.2**



DEMOLITION GENERAL NOTES

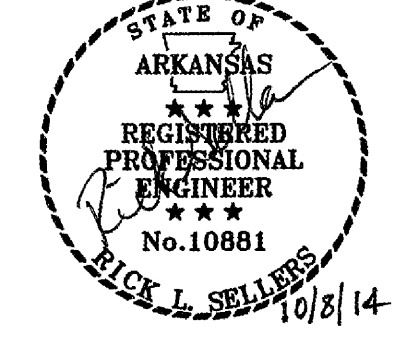
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN.

1 THIRD FLOOR DEMO PLAN - HVAC
 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

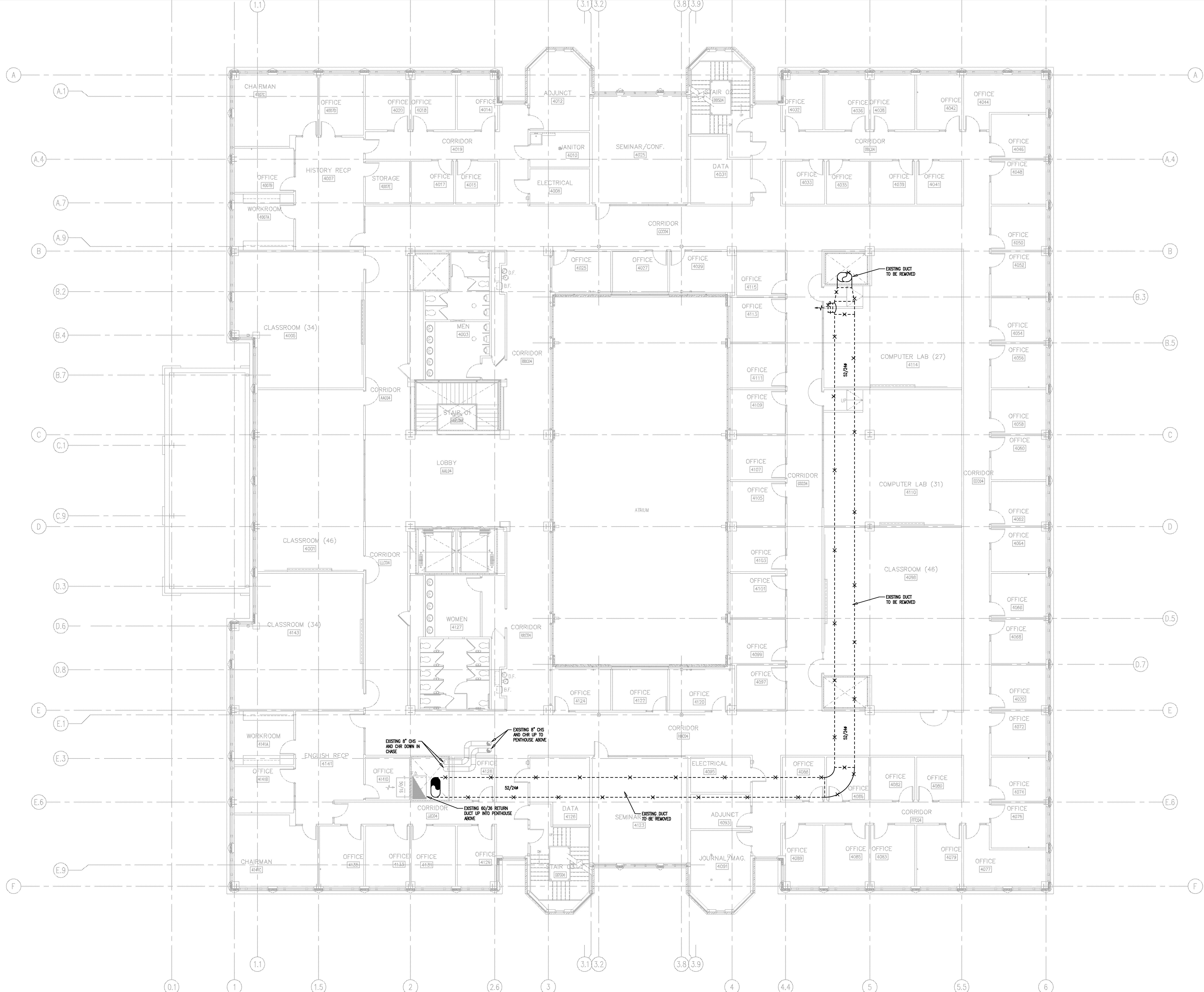


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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: THIRD FLOOR DEMO PLAN - HVAC
 Sheet Number: **DM1.3**



- DEMOLITION GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN.

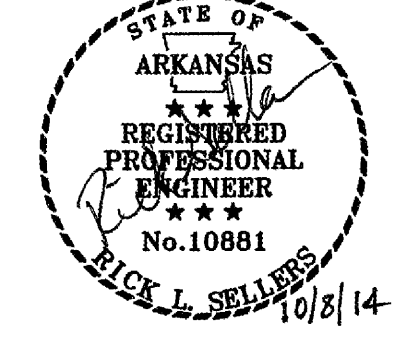
1 FOURTH FLOOR DEMO PLAN - HVAC
 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



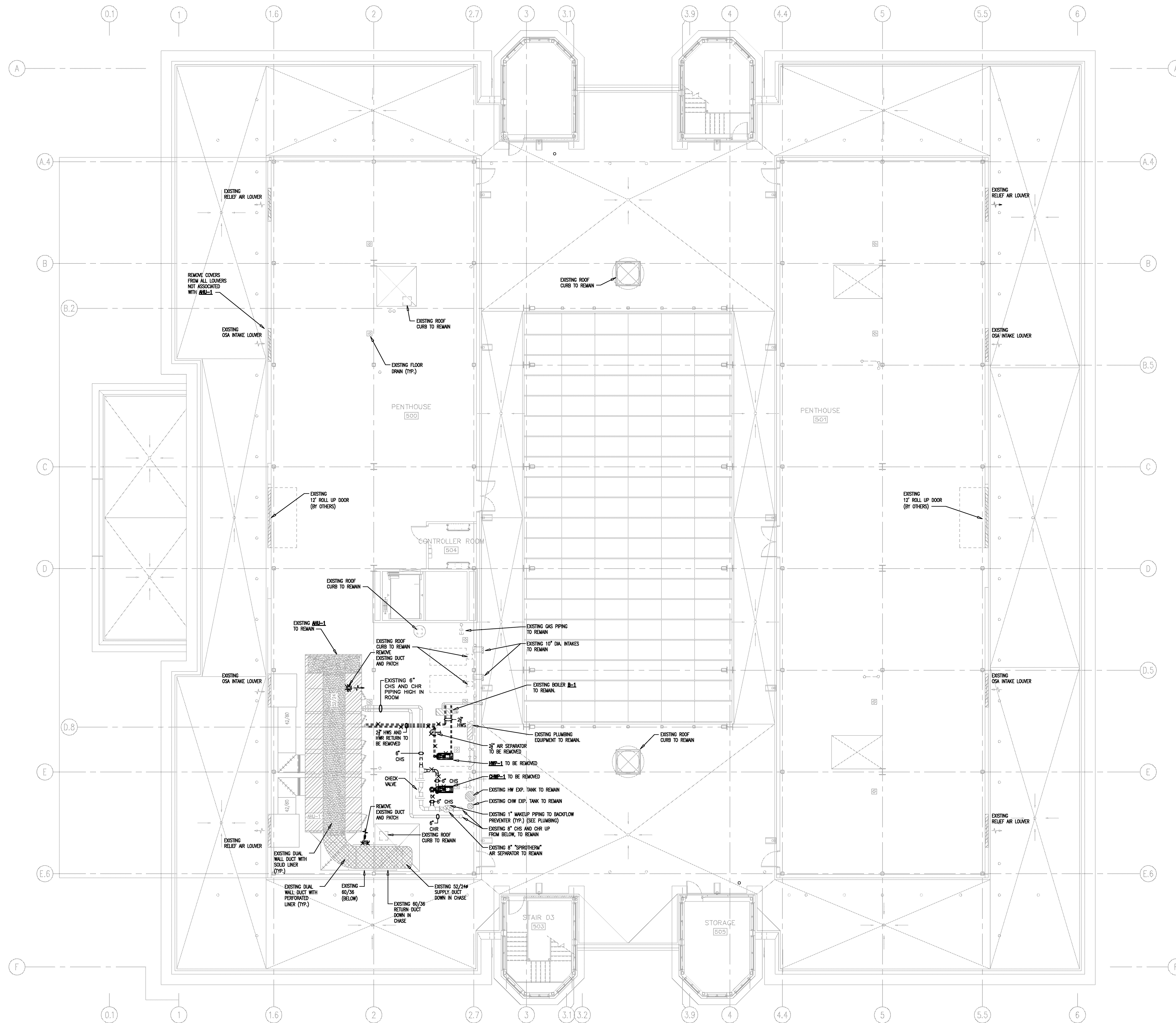
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 LOCATION: Jonesboro, AR
 DATE: October 3, 2013
 TITLE: FOURTH FLOOR DEMO PLAN - HVAC

Sheet Number: **DM1.4**



DEMOLITION GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN.

1 PENTHOUSE DEMO PLAN - HVAC
 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

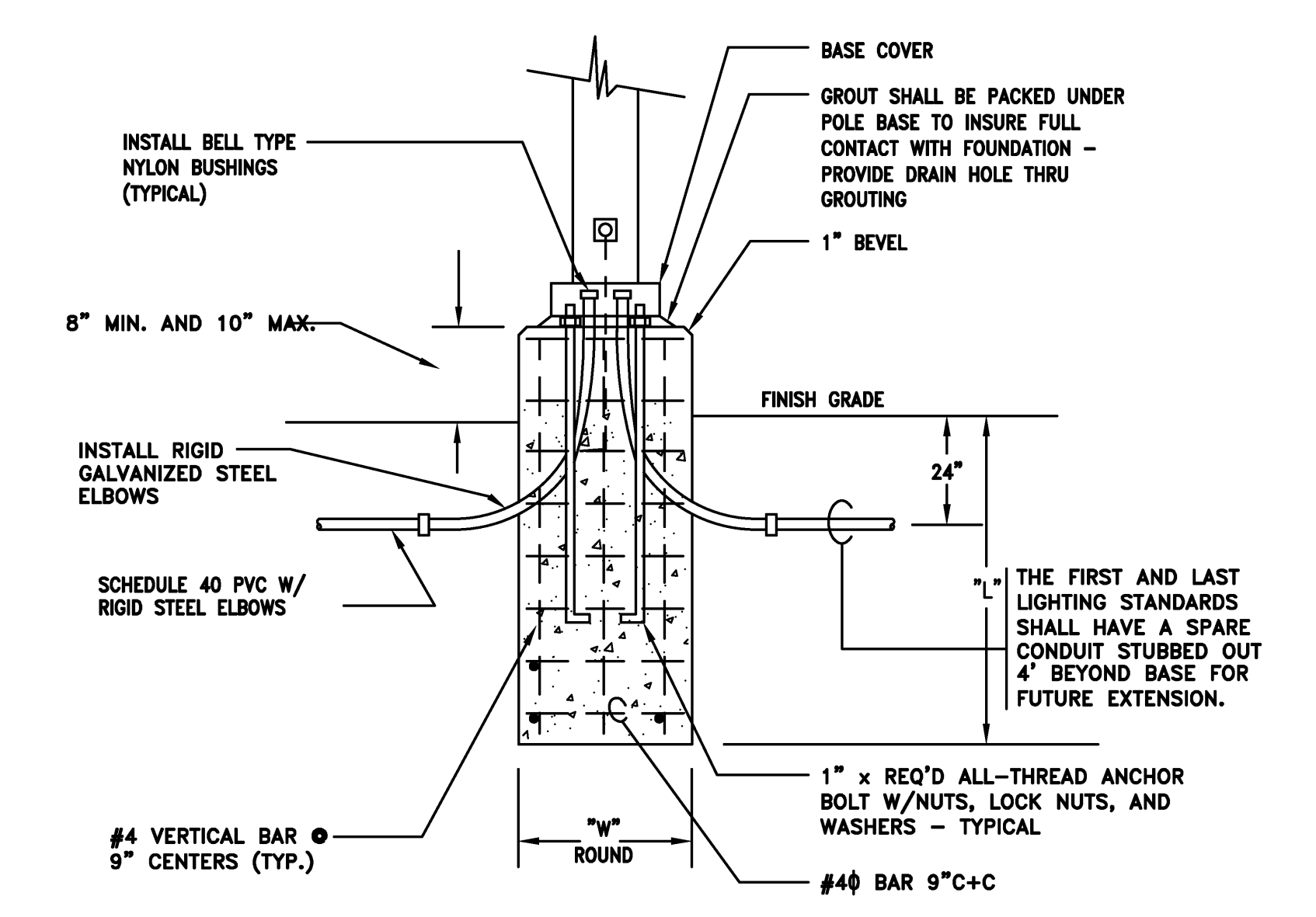
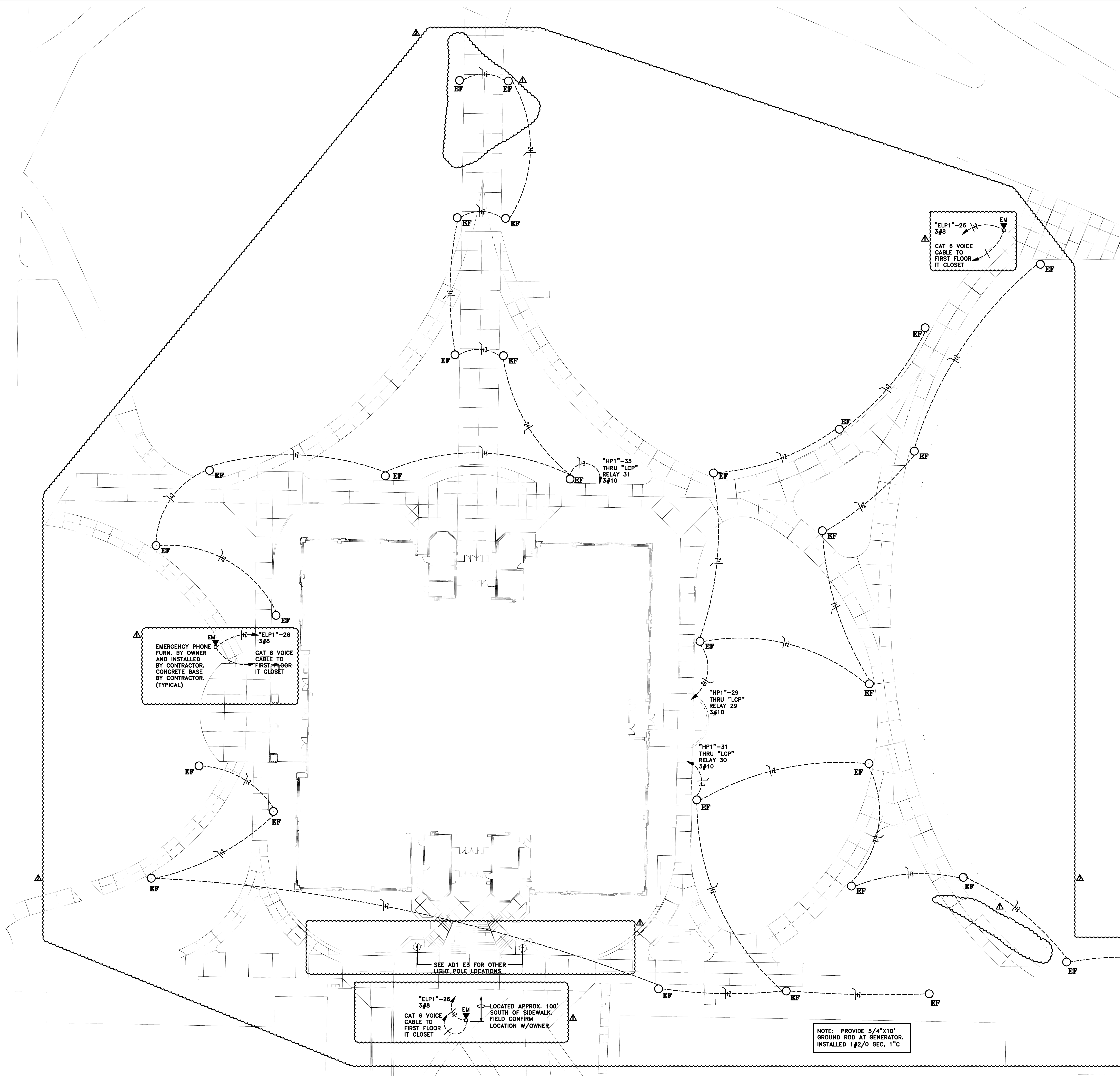


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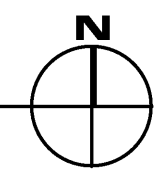


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: PENTHOUSE DEMO PLAN - HVAC
 Sheet Number: **DM1.5**



MAX. POLE HEIGHT	LENGTH	DIAMETER
10'-0"	4'-0"	18"
15'-0"	4'-6"	18"
20'-0"	5'-0"	24"
35'-0"	6'-0"	24"

1 SITE PLAN - LIGHTING
SCALE 1" = 20'

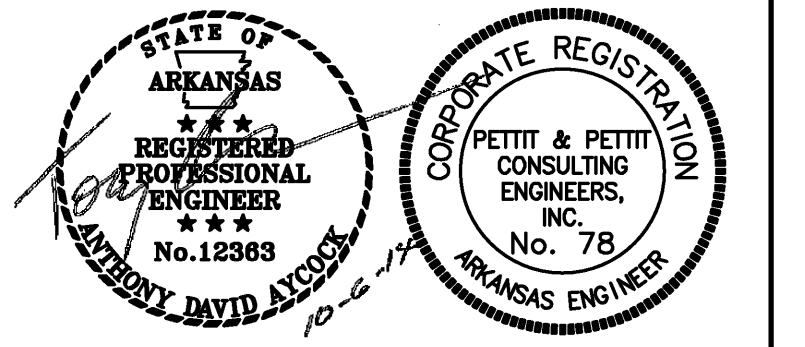


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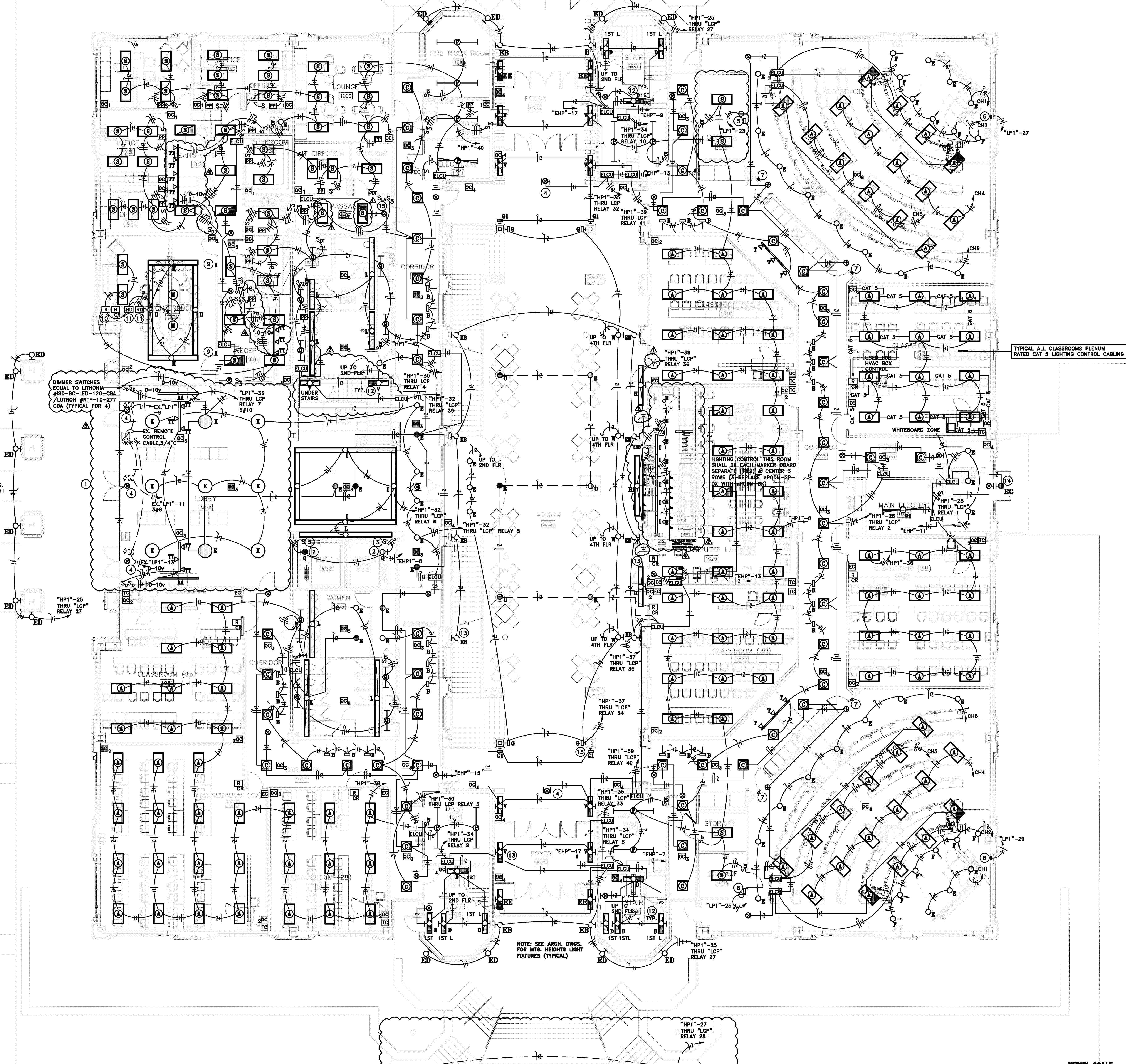
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: SITE PLAN - LIGHTING
Sheet Number: **E1.0**

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

KEYED ELECTRICAL NOTES

- 1 SEE THIRD FLOOR FOR LIGHTING AT ENTRY.
- 2 LIGHT FIXTURE 4'-6" ABOVE PIT FLOOR VERTICAL MOUNTED.
- 3 LIGHT SWITCH MOUNTED NEXT TO LADDER IN PIT 42" ABOVE PIT FLOOR.
- 4 EXACT MOUNTING AND LOCATION OF EXIT SIGN DETERMINED BY ARCHITECT.
- 5 LECTURE HALL AUTOMATION CONTROL CRESTRON #PAC2M, POWER SUPPLY #CLS-PWS75, TERMINAL BLOCK CLT-PWS75, ENCLOSURE #CAEN-2X1 W/COVER KIT AND TOUCH PANEL #TPS-4LW KIT (MOUNT WHERE DIRECTED BY OWNER).
- 6 LECTURE HALL CONTROL CRESTRON #CLS-C6MW-CBA. PROVIDE INTERFACE PRODUCTS FOR LIGHT FIXTURES AS REQUIRED FOR LED DIMMING. COORDINATE WITH LIGHTING MFR.
- 7 LECTURE HALL CAMEO CONTROL CRESTRON #C2N-CBD-W-5-CBA.
- 8 OCCUPANCY SENSOR INTEGRATION MODULE CRESTRON #GLS-SIM.
- 9 LIGHTING CONTROL STATION nLIGHT #nPODM-4P-DX--CBA.
- 10 RELAY nLIGHT #NPP16.
- 11 RELAY WITH PHASE DIMMING nLIGHT #NSP5-PCD-DIMMER TYPE TO MATCH LIGHT FIXTURE.
- 12 LIGHT FIXTURE WALL MOUNTED 7'-6" AFF/ABOVE LANDING.
- 13 SEE ARCHITECTURAL PLANS AND SECTIONS FOR MOUNTING HEIGHTS OF LIGHT FIXTURES.
- 14 EXACT LOCATION AND MOUNTING HEIGHT OF EGRESS LIGHT DETERMINED BY ARCHITECT.
- 15 ATRIUM LIGHTING CONTROL STATION.



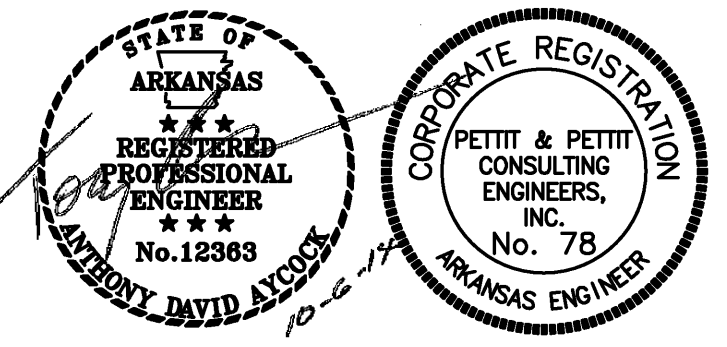
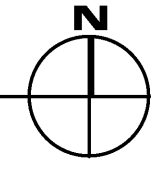
NOTE: SEE ARCH. DWGS. FOR MTC HEIGHTS LIGHT FIXTURES (TYPICAL)

DIMMER SWITCHES EQUAL TO LITHONIA #SD-BC-LED-120-CBA / LUTRON #MFT-10-277 CBA (TYPICAL FOR 4)

NOTE: SEE ARCH. DWGS. FOR MTC HEIGHTS LIGHT FIXTURES (TYPICAL)

TYPICAL ALL CLASSROOMS PLENUM RATED CAT 5 LIGHTING CONTROL CABLING

1 FIRST FLOOR PLAN - LIGHTING
SCALE 1/8" = 1'-0"



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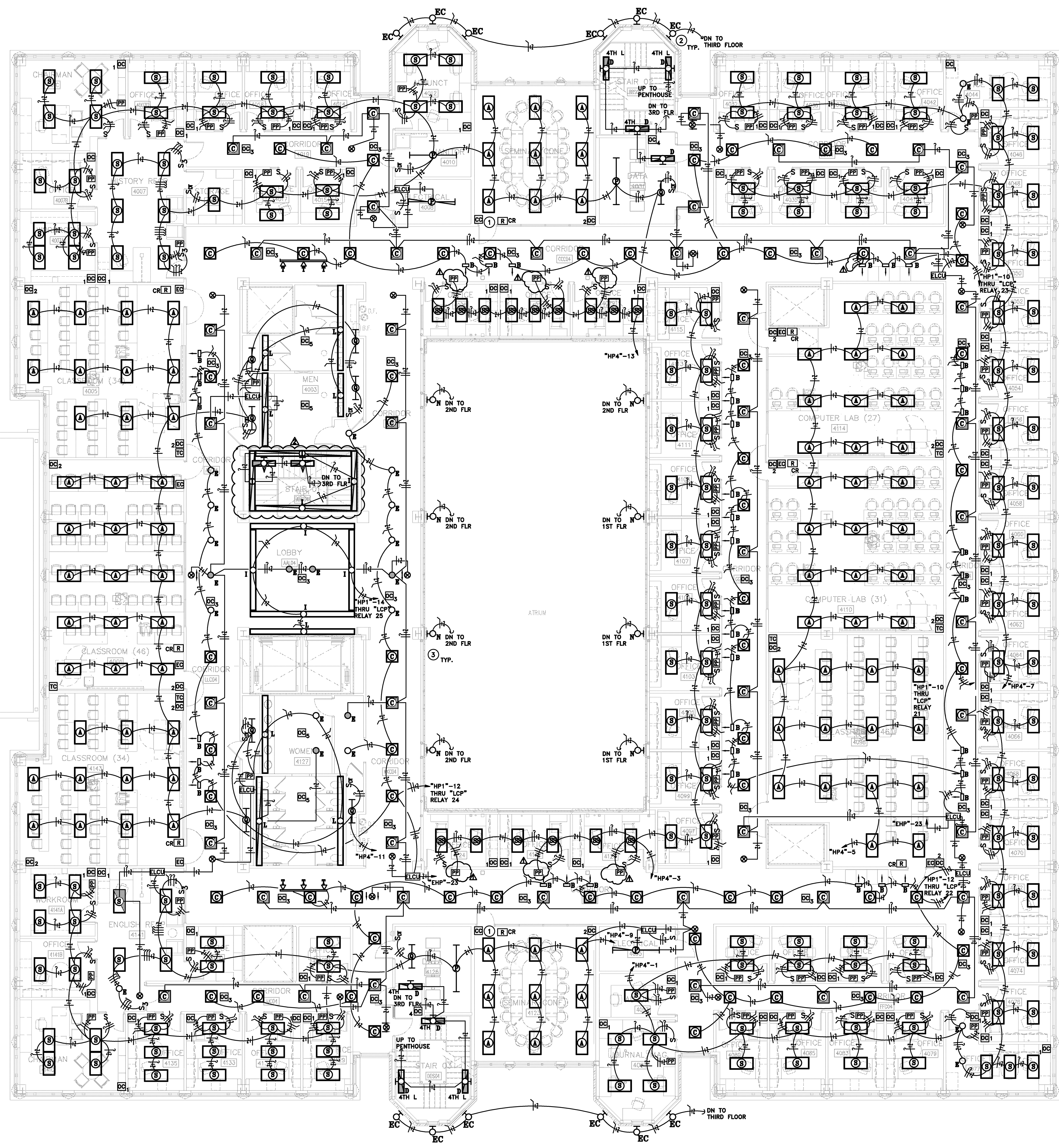
ASU ARKANSAS STATE UNIVERSITY
915 Southwest Drive
Jonesboro, AR 72401
870.933.6993 TEL.
870.933.6988 FAX.

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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FIRST FLOOR PLAN - LIGHTING
Sheet Number: **E1.1**

VERIFY SCALE
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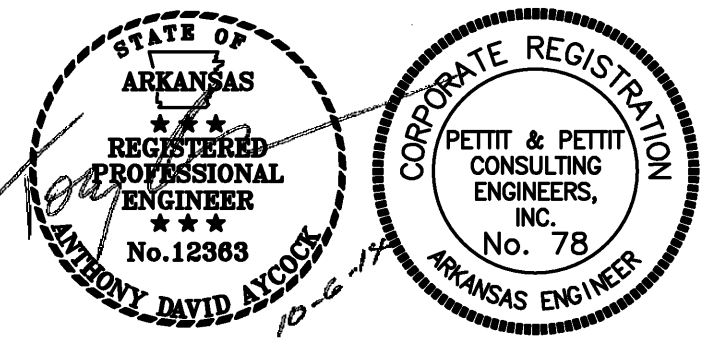
- | KEYED ELECTRICAL NOTES | |
|------------------------|--|
| 1 | CONFERENCE ROOM LIGHTING CONTROL SINGLE CHANNEL DIMMER CONTROL nLIGHT #nPODM-DX-CBA. |
| 2 | SEE ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR MOUNTING HEIGHT OF LIGHT FIXTURES. |
| 3 | SEE ARCHITECTURAL INTERIOR SECTIONS AND PLANS FOR MOUNTING HEIGHT OF LIGHT FIXTURES. |

1 FOURTH FLOOR PLAN - LIGHTING
 SCALE 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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Cahoon Stelling Studio



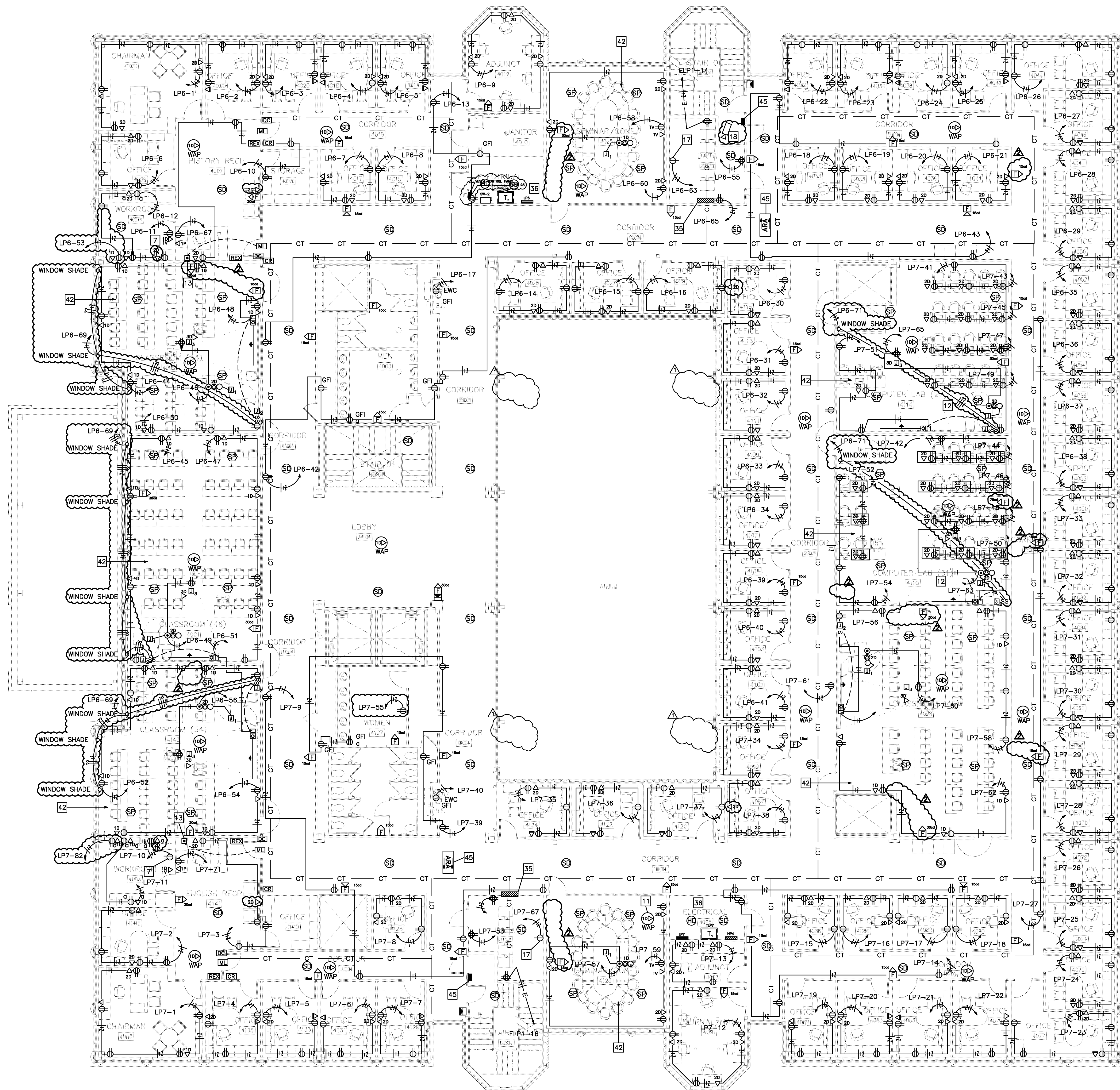
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FOURTH FLOOR PLAN - LIGHTING
 Sheet Number: **E1.10**

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KEYED ELECTRICAL NOTES:

- 1. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK.
- 2. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK 18" AFF TO CENTER OF BOX. PROVIDE COMBINATION RECEPTACLE AND USB CHARGING PORT EQUAL TO ARROW/HART #1R7745; VERIFY COLOR WITH ARCHITECT.
- 3. FIRE ALARM SYSTEM ANNUNCIATOR AND FIRE FIGHTERS COMMAND STATION.
- 4. NOT USED.
- 5. FOUR 2" RICH CONDUITS UNDER CONCRETE SLAB FOR DATA/VOICE CABLES.
- 6. JUNCTION BOX FOR AUTOMATIC DOORS.
- 7. PHOTO-COPIER; DEDICATED CIRCUIT.
- 8. VERIFY PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
- 9. CONNECT ALL TAMPERS AND ALL FLOW SWITCHES TO THE FAS; EACH AS A SEPARATE ADDRESSABLE POINT.
- 10. EXISTING UNDER FLOOR DUCT; PROVIDE OUTLETS AS SHOWN.
- 11. OUTLETS ABOVE CEILING FOR WIRELESS ACCESS POINT.
- 12. DATA OUTLETS AND RECEPTACLES IN FLOOR BOX REMOVED; REFRBS WITH REQUIRED ACCESSORIES.
- 13. REMOTE RELEASE BUTTON FOR ENTRY.
- 14. 120V CONNECTION FOR INTERNAL RECEPTACLE AND LIGHTS.
- 15. POWER CONNECTION POINT FOR SEATING.
- 16. DATA CONNECTION POINT FOR SEATING.
- 17. L5-30 RECEPTACLE; (3P10) 3/4" C.
- 18. EXISTING ROUGH-IN JUNCTION BOX; FROM SHELL PROJECT; TYPICAL INSTALL CAT 6 CABLE CONNECTION TO EACH CAMERA. TERMINATE WITH RJ45 JACK AT CAMERA AND AT NEAREST UT CLOSET.
- 19. CONTRACTOR SHALL COORDINATE REQUIRED FUSE SIZE NEEDED FOR PROPER ELEVATOR OPERATION.
- 20. 200A/3P/NF-DISCONNECT SWITCH.
- 21. 30A/2P/15AF-SW FOR ELEVATOR LIGHTS AND CONTROL POWER; (4#12) 3/4" C.
- 22. EXISTING PUMPING EQUIPMENT REMOVED; REFER TO MECHANICAL PLANS.
- 23. COMBINATION 30A/3P/NF-SW AND NEMA #1 MOTOR STARTER; PROVIDE HOA SWITCH. FANS SHALL INTERFACE WITH THE FAS FOR SMOKE PURGE FUNCTION.
- 24. FACTORY FURNISHED NEMA 3R DISCONNECT; INSTALLED UNDER THIS CONTRACT.
- 25. VFD FURNISHED BY MECH. CONTR. AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 26. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER; PROVIDE A HOA SWITCH.
- 27. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER; PROVIDE A HOA SWITCH.
- 28. RE-CIRC PUMP FOR WH-1; 120V AT .75 HP.
- 29. JOCKEY PUMP CONTROLLER.
- 30. FIRE PUMP CONTROLLER.
- 31. TELEPHONE BACK-BOARD (TTB); FROM 18" AFF TO FINISHED CEILING; REFER TO PLANS FOR TTB WIDTH.
- 32. VENDING MACHINE.
- 33. MAKE ALL OUTLETS ACTIVE (POWER AND DATA) PROVIDING ALL NECESSARY PARTS, PLATES, ETC. FOR COMPLETE INSTALLATION. THIS APPLIES FOR THE ENTIRE SEATED FURNITURE SYSTEM. REFER TO THE SEATING VENDOR'S INSTALLATION DRAWINGS FOR FURTHER DETAILS.
- 34. CONTRACTOR TO PAY ALL FEES; VERIFY ALL INSTALLATION REQUIREMENTS PRIOR TO BID. CONTRACTOR TO PROVIDE COMPLETE SERVICES.
- 35. PROVIDE FIRE STOPPING AS REQUIRED BY CODE.
- 36. REFER TO SHEET E2.9 FOR LAYOUT OF ELEC ROOM EQUIPMENT AND OTHER DETAILS.
- 37. EXISTING 4" EMPTY CONDUIT DEDICATED FOR CONNECTION OF THIS BUILDING DATA SYSTEM WITH THE CAMPUS DATA SYSTEM.
- 38. ALL RECEPTACLES IN BOTH PENTHOUSES MOUNTED 36" AFF.
- 39. 120VAC CONNECTION FOR FIRE/SMOKE DAMPERS.
- 40. 120V POWER CONNECTION FOR MOTORIZED SHADES. COORDINATE INSTALLATION WITH THE SHADE VENDOR. CONTROL IS BY A WALL MOUNTED SWITCH.
- 41. ELEVATOR TELEPHONE CONNECTION.
- 42. REFER TO SHEET E2.1 FOR DETAILS OF CONDUIT AND JUNCTION BOX ROUGH-IN FOR DATA, A/V, ETC.
- 43. CAT 6 CONNECTION FOR ELEVATOR CAMERAS; CABLES TO TRAVEL WITH ELEVATOR WIRE BUNDLE. REFER TO ELEVATOR SPECIFICATIONS.
- 44. VERIFY PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 45. AREA OF RESCUE CALL BOX. REFER TO SHEET E2.5 FOR DETAILS.
- 46. BOILER EMERGENCY SHUT DOWN BUTTON.



1 POWER AND SYSTEMS - FOURTH FLOOR
SCALE 1/8" = 1'-0"

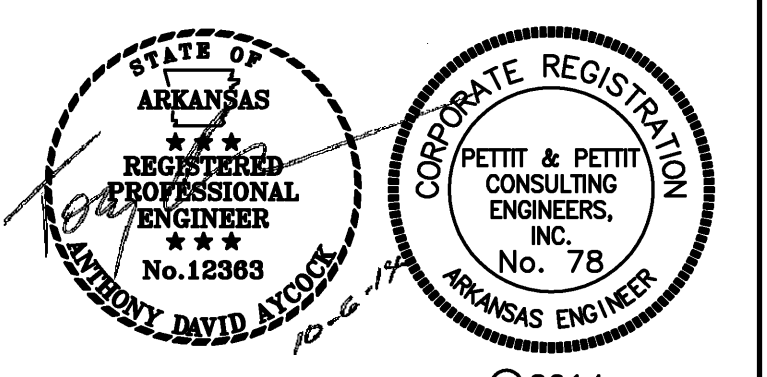
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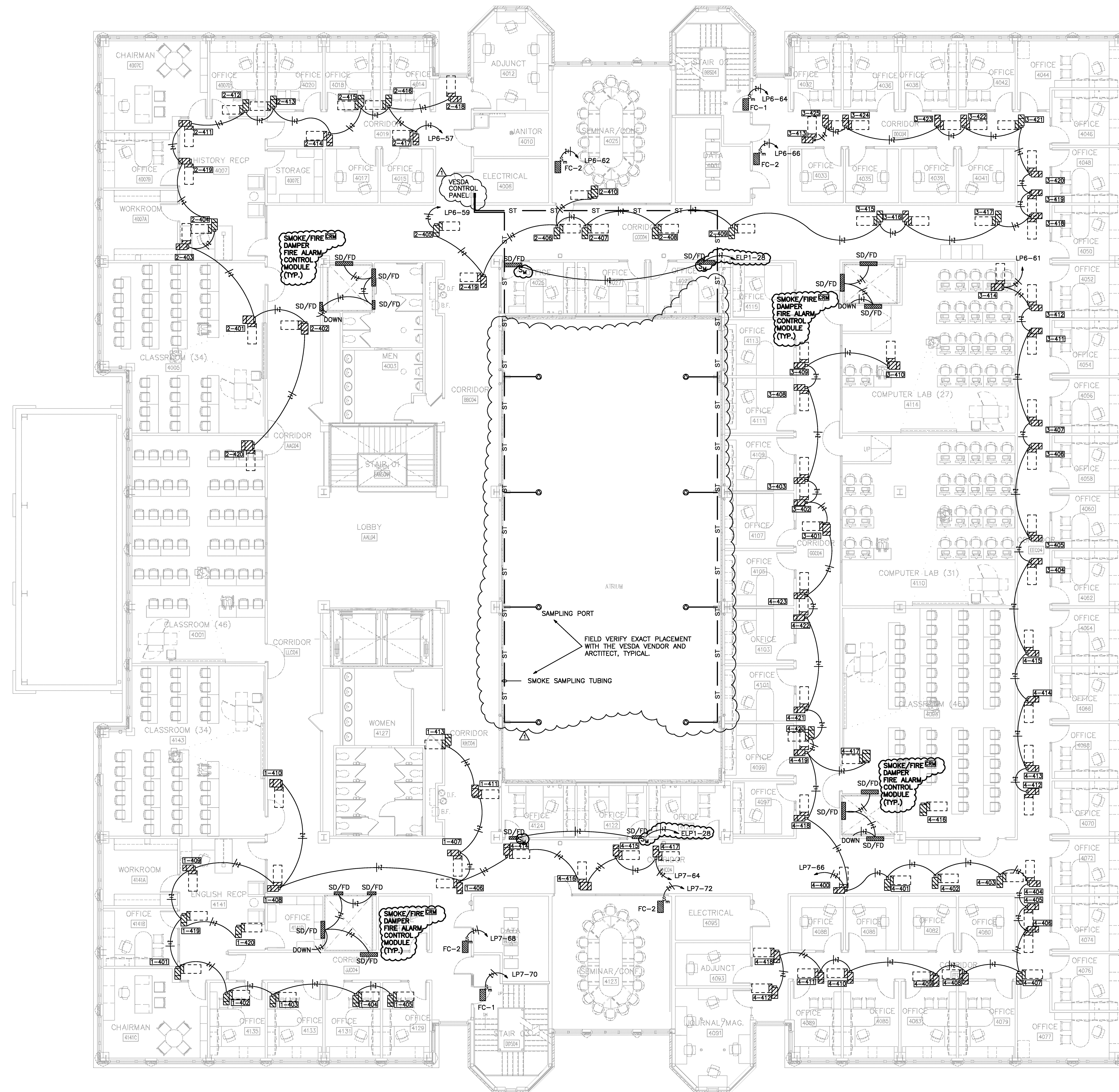


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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FOURTH FLOOR - POWER AND SYSTEMS
Sheet Number: **E1.11**

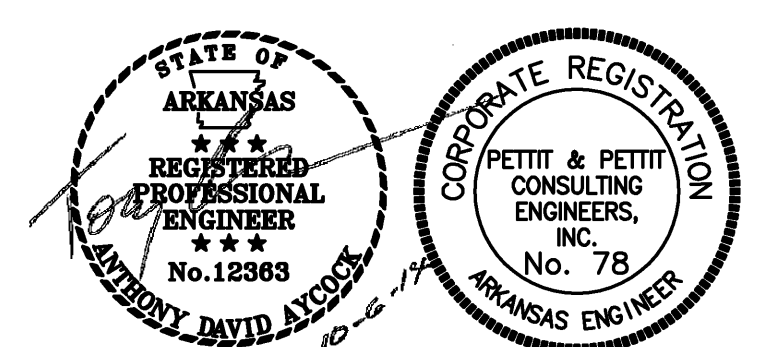


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1 MECHANICAL POWER - FOURTH FLOOR
SCALE 1/8" = 1'-0"

FIELD VERIFY EXACT PLACEMENT WITH THE VESDA VENDOR AND ARCHITECT, TYPICAL.



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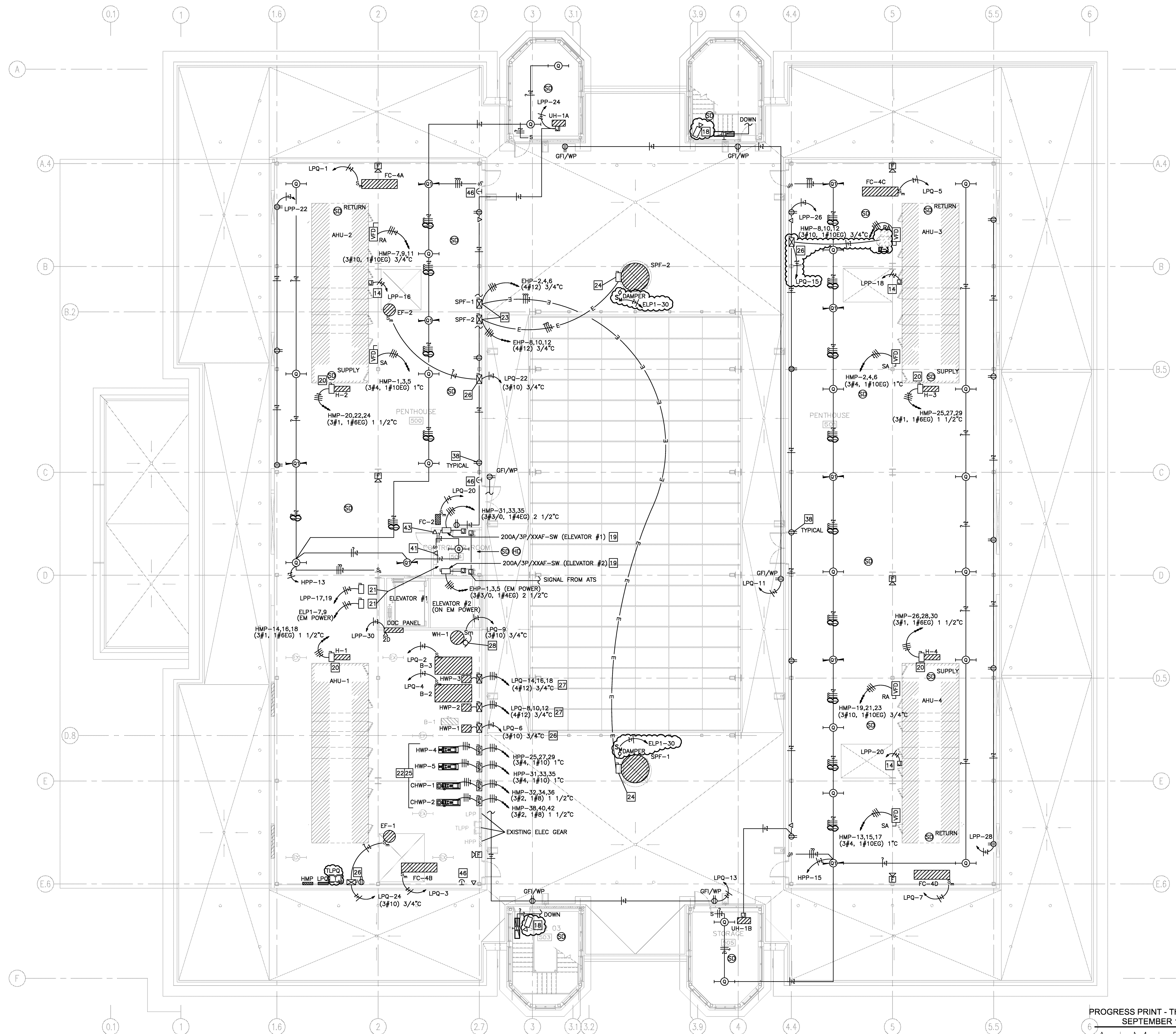
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FOURTH FLOOR - MECHANICAL POWER
Sheet Number: **E1.12**

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KEYED ELECTRICAL NOTES:

- KEYED NOTE SYMBOL
1. RECEPTACLE MOUNTED IN LIGHT POLE BASE.
 2. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK 18" AFF TO CENTER OF BOX. PROVIDE COMBINATION RECEPTACLE AND USB CHARGING PORT EQUAL TO ARROW/HART #TR7745; VERIFY COLOR WITH ARCHITECT.
 3. FIRE ALARM SYSTEM ANNUNCIATOR AND FIRE FIGHTERS COMMAND STATION.
 4. NOT USED.
 5. FOUR 2" HIGH CONDUITS IN/UNDER CONCRETE SLAB FOR DATA/VOICE CABLES.
 6. JUNCTION BOX FOR AUTOMATIC DOORS.
 7. PHOTO-COPPER; DEDICATED CIRCUIT.
 8. VERIFY PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
 9. CONNECT ALL TAMPERS AND ALL FLOW SWITCHES TO THE FAS; EACH AS A SEPARATE ADDRESSABLE POINT.
 10. EXISTING UNDER FLOOR DUCT; PROVIDE OUTLETS AS SHOWN.
 11. OUTLETS ABOVE CEILING FOR WIRELESS ACCESS POINTS.
 12. DATA OUTLETS AND RECEPTABLES IN FLOOR BOX WIREMOLD #EFB6S WITH REQUIRED ACCESSORIES.
 13. REMOTE RELEASE BUTTON FOR ENTRY.
 14. 120V CONNECTION FOR INTERNAL RECEPTACLE AND LIGHTS.
 15. POWER CONNECTION POINT FOR SEATING.
 16. DATA CONNECTION POINT FOR SEATING.
 17. 15-30 RECEPTABLE (3#10) 3/4" C.
 18. EXISTING ROUGH-IN JUNCTIONS FROM SHEEL PROJECT. VERIFY AND INSTALL CAT 6 CABLE CONNECTION TO EACH CAMERA. TERMINATE WITH RJ45 JACK AT CAMERA AND AT NEAREST I.T. CLOSET.
 19. CONTRACTOR SHALL COORDINATE REQUIRED FUSE SIZE NEEDED FOR PROPER ELEVATOR OPERATION.
 20. 200A/3P/NF-DISCONNECT SWITCH.
 21. 30A/2P/15AF-SW FOR ELEVATOR LIGHTS AND CONTROL POWER (3#12) 3/4" C.
 22. EXISTING PUMPING EQUIPMENT REMOVED; REFER TO MECHANICAL PLANS.
 23. COMBINATION 30A/3P/NF-SW AND NEMA #1 MOTOR STARTER. PROVIDE HOA SWITCH. FANS SHALL INTERFACE WITH THE FAS FOR SMOKE PURGE FUNCTION.
 24. FACTORY FURNISHED NEMA 3R DISCONNECT; INSTALLED UNDER THIS CONTRACT.
 25. VFD FURNISHED BY MECH. CONTR. AND INSTALLED BY ELECTRICAL CONTRACTOR.
 26. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
 27. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
 28. RE-CIRC PUMP FOR WH-1; 120V AT .75 HP.
 29. JOCKEY PUMP CONTROLLER.
 30. FIRE PUMP CONTROLLER.
 31. TELEPHONE BACK-BOARD (TBB); FROM 18" AFF TO FINISHED CEILING; REFER TO PLANS FOR ITB WIDTH.
 32. VENDING MACHINE.
 33. MAKE ALL OUTLETS ACTIVE (POWER AND DATA) PROVIDING ALL NECESSARY PARTS, PLATES, ETC. FOR COMPLETE INSTALLATION. THIS APPLIES FOR THE ENTIRE SEATED FURNITURE SYSTEM. REFER TO THE SEATING VENDOR'S INSTALLATION DRAWINGS FOR FURTHER DETAILS.
 34. CONTRACTOR TO PAY ALL FEES; VERIFY ALL INSTALLATION REQUIREMENTS PRIOR TO BID. CONTRACTOR TO PROVIDE COMPLETE SERVICES.
 35. PROVIDE FIRE STOPPING AS REQUIRED BY CODE.
 36. REFER TO SHEET E2.8 FOR LAYOUT OF ELEC ROOM EQUIPMENT AND OTHER DETAILS.
 37. EXISTING 4" EMPTY CONDUIT DEDICATED FOR CONNECTION OF THIS BUILDING DATA SYSTEM WITH THE CAMPUS DATA SYSTEM.
 38. ALL RECEPTABLES IN BOTH PENTHOUSES MOUNTED 36" AFF.
 39. 120VAC CONNECTION FOR FIRE/SMOKE DAMPERS.
 40. 120V POWER CONNECTION FOR MOTORIZED SHADES. COORDINATE INSTALLATION WITH THE SHADE VENDOR. CONTROL IS BY A WALL MOUNTED SWITCH.
 41. ELEVATOR TELEPHONE CONNECTION.
 42. REFER TO SHEET E2.1 FOR DETAILS OF CONDUIT AND JUNCTION BOX ROUGH-IN FOR DATA, A/V, ETC.
 43. CAT 6 CONNECTION FOR ELEVATOR CAMERAS; CABLES TO TRAVEL WITH ELEVATOR WIRE BUNDLE. REFER TO ELEVATOR SPECIFICATIONS.
 44. VERIFY PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 45. AREA OF RESCUE CALL BOX. REFER TO SHEET E2.5 FOR DETAILS.
 46. BOILER EMERGENCY SHUT DOWN BUTTON.

1 ELECTRICAL PLAN - PENTHOUSE
SCALE 1/8" = 1'-0"

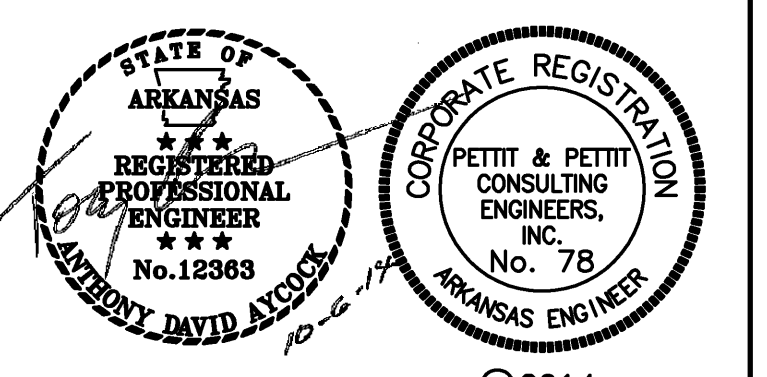
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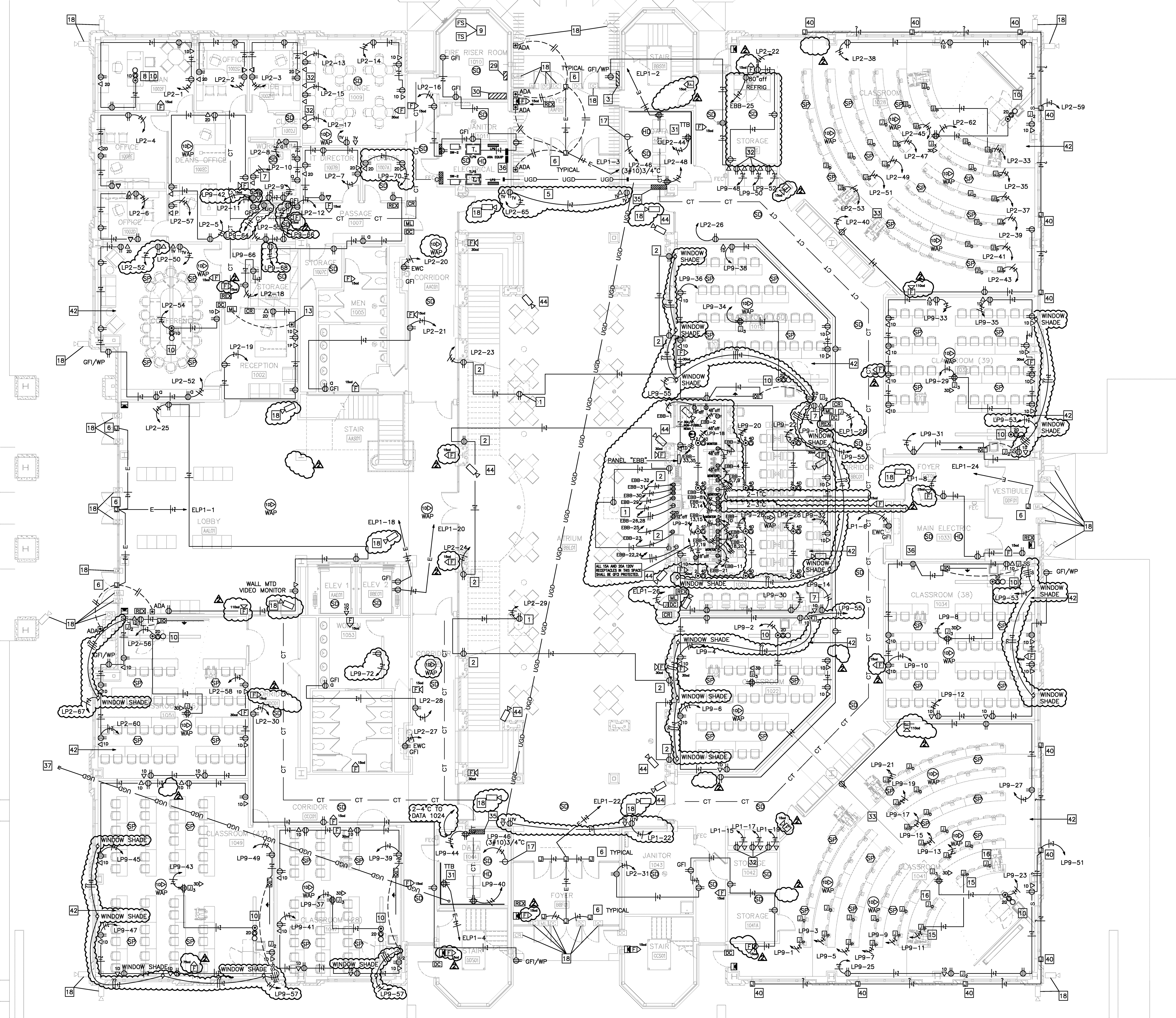


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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: PENTHOUSE FLOOR PLAN - ELECTRICAL
Sheet Number:

KEYED ELECTRICAL NOTES:

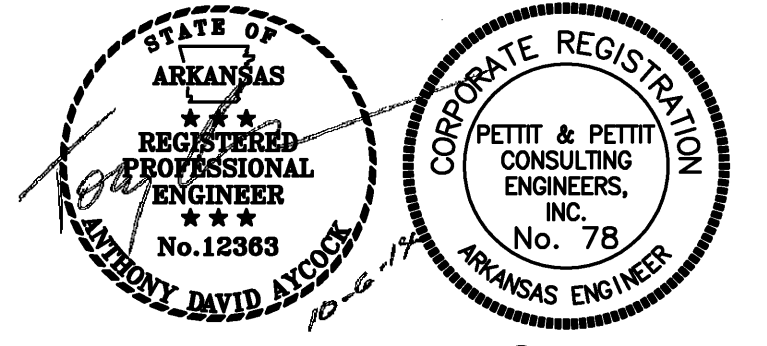
- 1. RECEPTACLE MOUNTED IN LIGHT POLE BASE.
- 2. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK 18" AFF TO CENTER OF BOX. PROVIDE COMBINATION RECEPTACLE AND USB CHARGING PORT EQUAL TO ARROW/HART #TR7745; VERIFY COLOR WITH ARCHITECT.
- 3. FIRE ALARM SYSTEM ANNUNCIATOR AND FIRE FIGHTERS COMMAND STATION.
- 4. NOT USED.
- 5. FOUR 2" INCH CONDUITS IN/UNDER CONCRETE SLAB FOR DATA/VOICE CABLES.
- 6. JUNCTION BOX FOR AUTOMATIC DOORS.
- 7. PHOTO-COPYER; DEDICATED CIRCUIT.
- 8. VERIFY PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
- 9. CONNECT ALL TAMPERS AND ALL FLOW SWITCHES TO THE FAS; EACH AS A SEPARATE ADDRESSABLE POINT.
- 10. EXISTING UNDER FLOOR DUCT; PROVIDE OUTLETS AS SHOWN.
- 11. OUTLETS ABOVE CEILING FOR WIRELESS ACCESS POINT.
- 12. DATA OUTLETS AND RECEPTABLES IN FLOOR BOX W/IRWMOLD #E2B6S WITH REQUIRED ACCESSORIES.
- 13. REMOTE RELEASE BUTTON FOR ENTRY.
- 14. 120V CONNECTION FOR INTERNAL RECEPTACLE AND LIGHTS.
- 15. POWER CONNECTION POINT FOR SEATING.
- 16. DATA CONNECTION POINT FOR SEATING.
- 17. L5-30 RECEPTACLE (3#10) 3/4" C.
- 18. EXISTING ROUGH-IN JUNCTIONS FROM SHELL PROJECT. TYPICAL INSTALL CAT 6 CABLE CONNECTION TO EACH CAMERA. TERMINATE WITH RJ45 JACK AT CAMERA AND AT NEAREST UT. CLOSET.
- 19. CONTRACTOR SHALL COORDINATE REQUIRED FUSE SIZE NEEDED FOR PROPER ELEVATOR OPERATION.
- 20. 200A/3P/NF-DISCONNECT SWITCH.
- 21. 30A/2P/15AF-SW FOR ELEVATOR LIGHTS AND CONTROL POWER; (4#12) 3/4" C.
- 22. EXISTING PUMPING EQUIPMENT REMOVED; REFER TO MECHANICAL PLANS.
- 23. COMBINATION 30A/3P/NF-SW AND NEMA #1 MOTOR STARTER. PROVIDE HOA SWITCH. FANS SHALL INTERFACE WITH THE FAS FOR SMOKE PURGE FUNCTION.
- 24. FACTORY FURNISHED NEMA 3R DISCONNECT; INSTALLED UNDER THIS CONTRACT.
- 25. VFD FURNISHED BY MECH. CONTR. AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 26. COMBINATION 30A/1P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 27. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 28. RE-CIRC PUMP FOR WH-1; 120V AT .75 HP.
- 29. JOCKEY PUMP CONTROLLER.
- 30. FIRE PUMP CONTROLLER.
- 31. TELEPHONE BACK-BRAND (TTB); FROM 18" AFF TO FINISHED CEILING; REFER TO PLANS FOR TTB WIDTH.
- 32. VENDING MACHINE.
- 33. MAKE ALL OUTLETS ACTIVE (POWER AND DATA) PROVIDING ALL NECESSARY PARTS, PLATES, ETC. FOR COMPLETE INSTALLATION. THIS APPLIES FOR THE ENTIRE SEATED FURNITURE SYSTEM. REFER TO THE SEATING VENDOR'S INSTALLATION DRAWINGS FOR FURTHER DETAILS.
- 34. CONTRACTOR TO PAY ALL FEES; VERIFY ALL INSTALLATION REQUIREMENTS PRIOR TO BID. CONTRACTOR TO PROVIDE COMPLETE SERVICES.
- 35. PROVIDE FIRE STOPPING AS REQUIRED BY CODE.
- 36. REFER TO SHEET E2.8 FOR LAYOUT OF ELEC. ROOM EQUIPMENT AND OTHER DETAILS.
- 37. EXISTING 4" EMPTY CONDUIT DEDICATED FOR CONNECTION OF THIS BUILDING DATA SYSTEM WITH THE CAMPUS DATA SYSTEM.
- 38. ALL RECEPTABLES IN BOTH PENTHOUSES MOUNTED 36" AFF.
- 39. 120VAC CONNECTION FOR FIRE/SMOKE DAMPERS.
- 40. 120V POWER CONNECTION FOR MOTORIZED SHADES. COORDINATE INSTALLATION WITH THE SHADE VENDOR. CONTROL IS BY A WALL MOUNTED SWITCH.
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- 42. REFER TO SHEET E2.1 FOR DETAILS OF CONDUIT AND JUNCTION BOX ROUGH-IN FOR DATA, A/V, ETC.
- 43. CAT 6 CONNECTION FOR ELEVATOR CAMERAS; CABLES TO TRAVEL WITH ELEVATOR WIRE BUNDLE. REFER TO ELEVATOR SPECIFICATIONS.
- 44. VERIFY PLACEMENT WITH OWNER AND ARCHITECT TO ROUGH-IN.
- 45. AREA OF RESCUE CALL BOX. REFER TO SHEET E2.5 FOR DETAILS.
- 46. BOILER EMERGENCY SHUT-DOWN BUTTON.



1 POWER AND SYSTEMS - FIRST FLOOR
SCALE 1/8" = 1'-0"

EQUIPMENT SCHEDULE											
ITEM NO	QTY	EQUIPMENT CATEGORY	PLUG	AMPS	VOLTS	PHASE	KW	HP	NEMA	ELECTRICAL (ELECTRICAL)	ELEC REMARKS
151A	1	DOUBLE CONNECTION OVEN	X	48.0	208	1	21.4	14-60P	48	14-60P	24
205A	1	MERCHANDISER	X	48.0	208	1	21.4	14-20P	24	14-20P	* IN MILLWORK
220D	1	COFFEE MAKER	X	30.0	220	3	2.0	1/2	14-20P	15-30P	BY GC-RODEG, 15-30P
222E	1	EXPRESS MACHINE	X	24.0	208	1	3.0	14-30P	38	14-30P	* IN MILLWORK
230A	2	BLENDER	X	15.0	120	1	1.5	5-15P	38	5-15P	* IN MILLWORK
250G	1	SOUP WARMER	X	10.0	120	1	1.2	5-15P	50	5-15P	
361F	1	6" SANDWICH STATION	X	9.0	115	1	1.1	3/8	5-15P	38	
378A	1	BAGEL SLICER W/RETURN CHUTE	X	6.2	120	1	0.7	5-15P	50	5-15P	
379A	1	TOASTER, CONVEYOR	X	15.9	208	3.2	6-20P				
384B	1	OVEN, MICROWAVE/CONVECTION	X	30.0	208	1	5.9	6-30P	66	6-30P	
386A	1	EGG HOLDER	X	10.0	120	1	0.8	5-15P	66	5-15P	
390C	2	MICROWAVE OVEN	X	16.6	208	1	1.7	6-15P	66	6-15P	
502A	1	ICE MAKER W/ BIN	X	6.0	115	1	13.5	5-15P	12	5-15P	IN MILLWORK
508B	1	UNDERCOUNTER REFRIGERATOR	X	4.0	115	1	1/5	5-15P	12	5-15P	IN MILLWORK
510A	1	REFRIGERATED WORK TABLE	X	3.3	115	1	2.4	1/5	5-15P	8	
573A	1	3-DOOR REACH-IN REFRIGERATOR	X	10.4	115	1	3/4	5-15P	78	5-15P	
573B	1	2-DOOR REACH-IN REFRIGERATOR	X	10.7	115	1	1/2	5-15P	78	5-15P	
864L	1	48" BAGEL CASE	X	3.0	120			5-15P	*	5-15P	* IN MILLWORK
1	1	BLADE SIGN	X	3.0	115	1		5-15P	TBD	VERIFY	

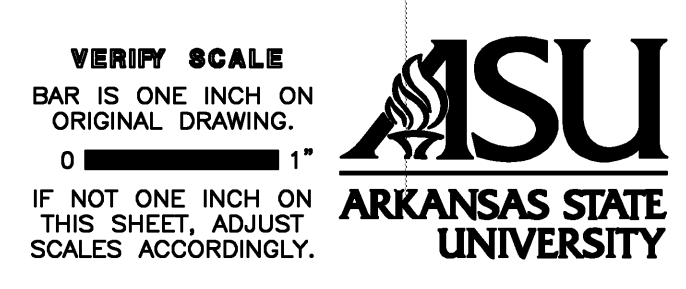
NOTE: EQUIPMENT SCHEDULE ELECTRICAL INFORMATION PROVIDED BY EINSTEIN NOAH RESTAURANT GROUP. CONTRACTOR SHALL VERIFY EQUIPMENT INFORMATION PRIOR TO INSTALLATION.



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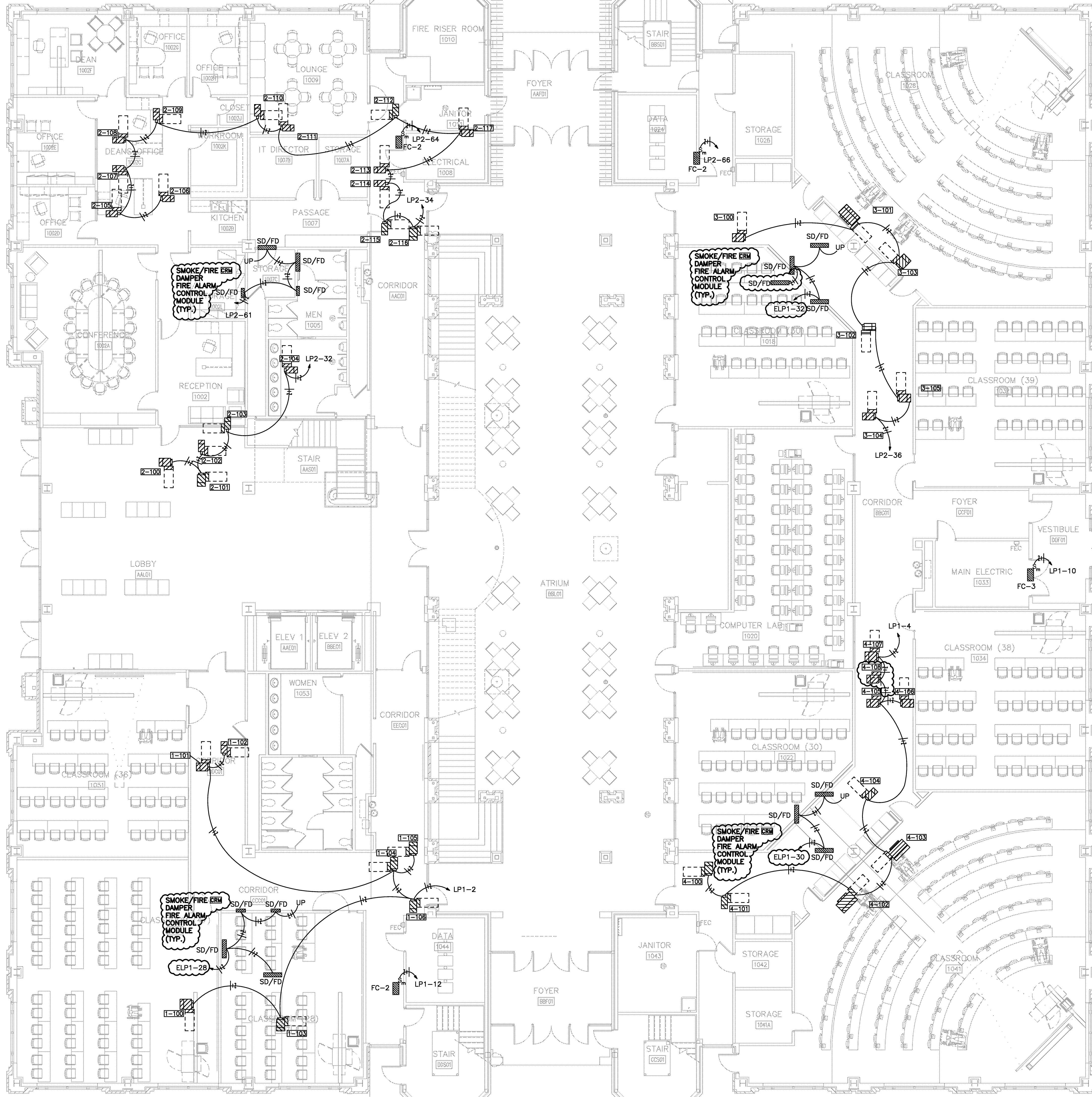
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FIRST FLOOR - POWER AND SYSTEMS
Sheet Number: E1.2

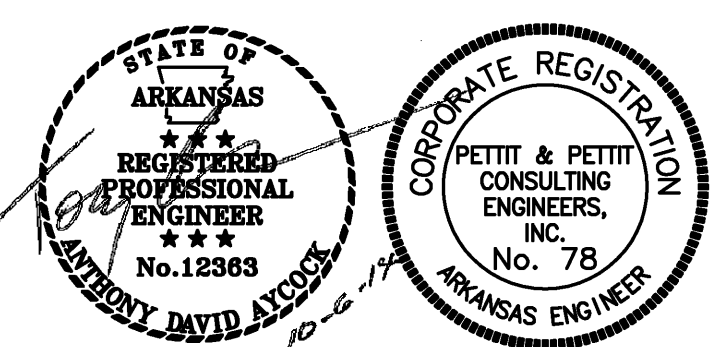


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1 MECHANICAL POWER - FIRST FLOOR
SCALE 1/8" = 1'-0"



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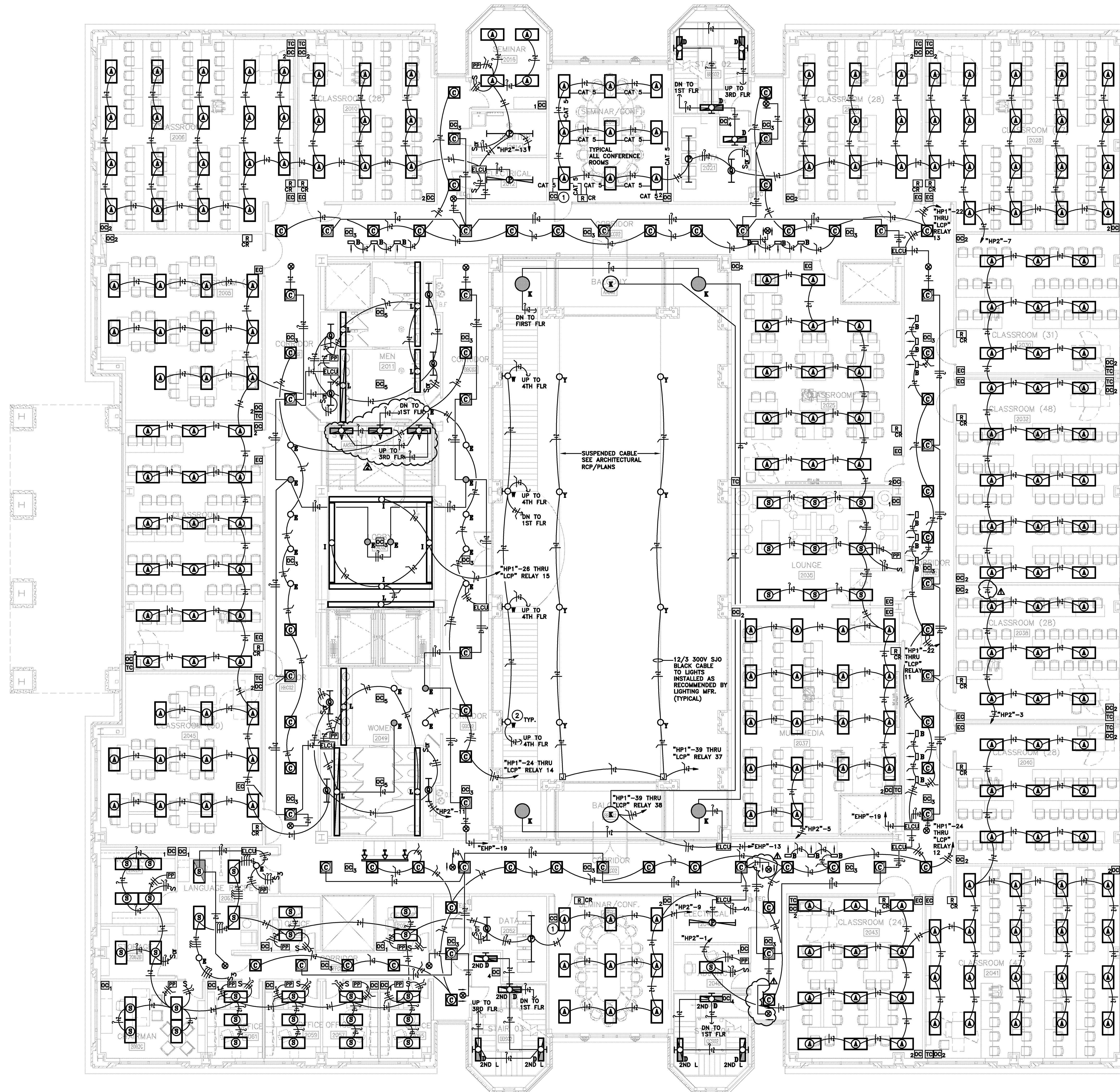
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FIRST FLOOR - MECHANICAL POWER
Sheet Number: **E1.3**

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KEYED ELECTRICAL NOTES	
①	CONFERENCE ROOM LIGHTING CONTROL SINGLE CHANNEL DIMMER CONTROL nLIGHT #nPODM-DX-CBA.
②	SEE ARCHITECTURAL PLANS AND SECTIONS FOR MOUNTING HEIGHT OF LIGHT FIXTURES.

1 SECOND FLOOR PLAN - LIGHTING
SCALE 1/8" = 1'-0"

VERIFY SCALE
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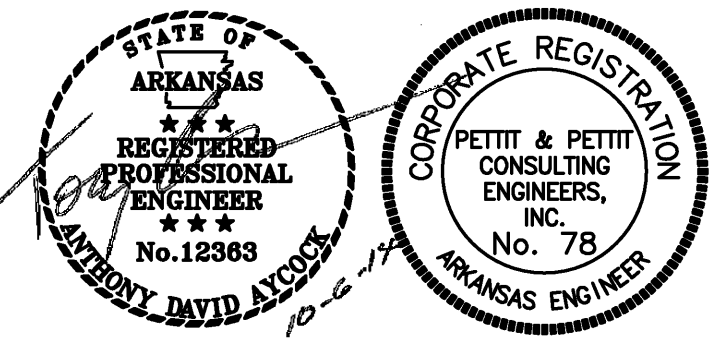
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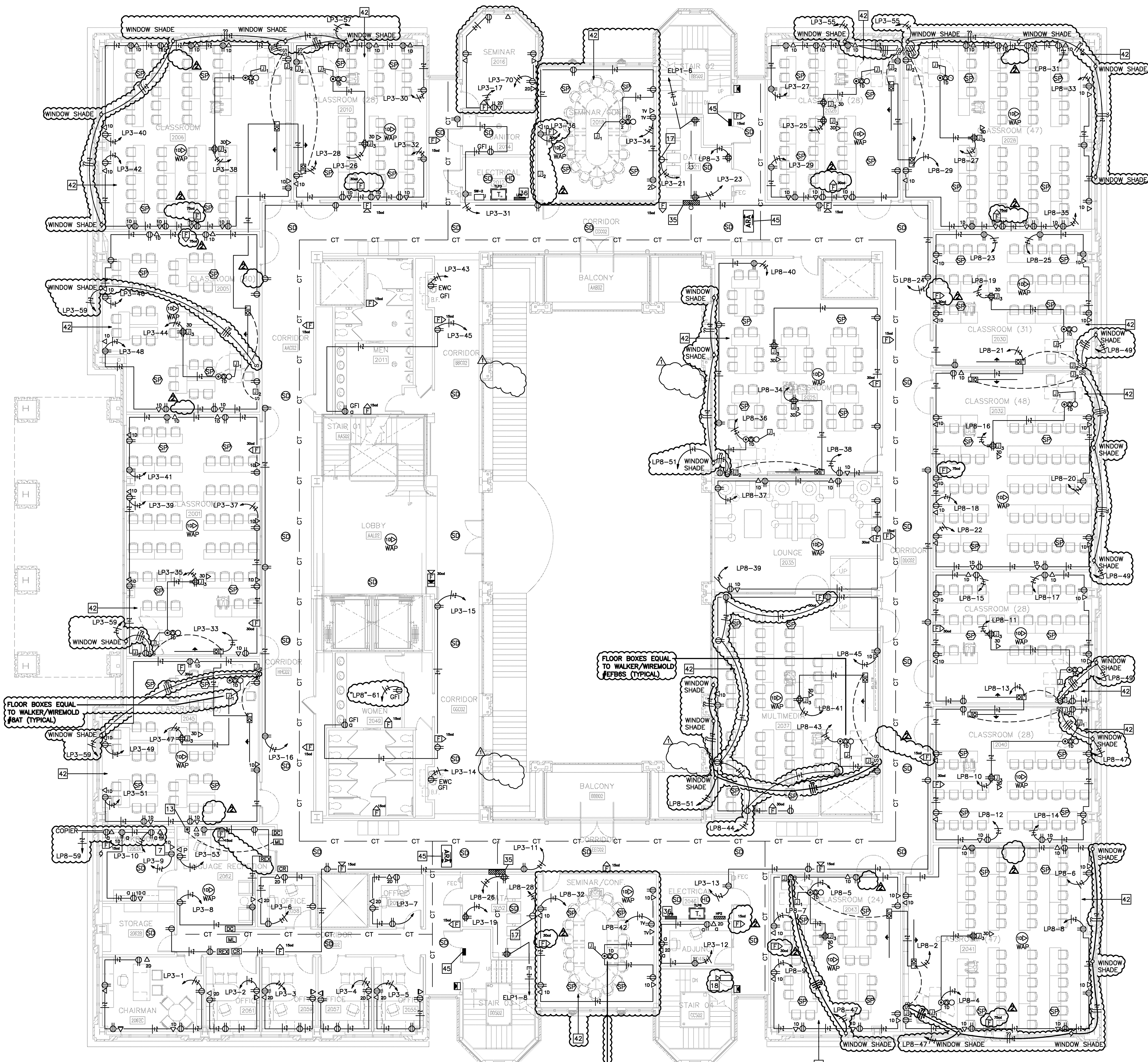
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Location: Jonesboro, AR
Date: October 3, 2013
Title: SECOND FLOOR PLAN - LIGHTING

Sheet Number: **E1.4**



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KEYED ELECTRICAL NOTES:

- 1. RECEPTACLE MOUNTED IN LIGHT POLE BASE.
- 2. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK 18" AFF TO CENTER OF BOX. PROVIDE COMBINATION RECEPTACLE AND USB CHARGING PORT EQUAL TO ARROW/HART #TR7745; VERIFY COLOR WITH ARCHITECT.
- 3. FIRE ALARM SYSTEM ANNUNCIATOR AND FIRE FIGHTERS COMMAND STATION.
- 4. NOT USED.
- 5. FOUR 2" INCH CONDUITS UNDER CONCRETE SLAB FOR DATA/VOICE CABLES.
- 6. JUNCTION BOX FOR AUTOMATIC DOORS.
- 7. PHOTO-COPIER; DEDICATED CIRCUIT.
- 8. VERIFY PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
- 9. CONNECT ALL TAMPERS AND ALL FLOW SWITCHES TO THE FAS; EACH AS A SEPARATE ADDRESSABLE POINT.
- 10. EXISTING UNDER FLOOR DUCT; PROVIDE OUTLETS AS SHOWN.
- 11. OUTLETS ABOVE CEILING FOR WIRELESS ACCESS POINT.
- 12. DATA OUTLETS AND RECEPTABLES IN FLOOR BOX WIREMOLD #FBBS WITH REQUIRED ACCESSORIES.
- 13. REMOTE-RELEASE BOTTOM-PUSH ENTRY.
- 14. 120V CONNECTION FOR INTERNAL RECEPTACLE AND LIGHTS.
- 15. POWER CONNECTION POINT FOR SEATING.
- 16. DATA CONNECTION POINT FOR SEATING.
- 17. L5-30 RECEPTACLE. (3#10) 3/4"
- 18. EXISTING ROUGH-IN JUNCTIONS FROM SHELL PROJECT. VERIFY AND INSTALL CAT 6 CABLE CONNECTION TO EACH CAMERA. TERMINATE WITH RJ45 JACK AT CAMERA AND AT NEAREST I.T. CLOSET.
- 19. CONTRACTOR SHALL COORDINATE REQUIRED FUSE SIZE NEEDED FOR PROPER ELEVATOR OPERATION.
- 20. 200A/3P/NF-DISCONNECT SWITCH.
- 21. 30A/2P/15AF-SW FOR ELEVATOR LIGHTS AND CONTROL POWER. (4#12) 3/4"
- 22. EXISTING PUMPING EQUIPMENT REMOVED; REFER TO MECHANICAL PLANS.
- 23. COMBINATION 30A/3P/NF-SW AND NEMA #1 MOTOR STARTER. PROVIDE HOA SWITCH. FANS SHALL INTERFACE WITH THE FAS FOR SMOKE PURGE FUNCTION.
- 24. FACTORY FURNISHED NEMA 3R DISCONNECT; INSTALLED UNDER THIS COORDED.
- 25. FURNISHED BY MECH. CONTR. AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 26. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 27. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 28. RE-CIRC PUMP FOR WH-1; 120V AT .75 HP.
- 29. JOCKEY PUMP CONTROLLER.
- 30. FIRE PUMP CONTROLLER.
- 31. TELEPHONE BACK-BOARD (TBB); FROM 18" AFF TO FINISHED CEILING; REFER TO PLANS FOR TTB WIDTH.
- 32. VENDING MACHINE.
- 33. MAKE ALL OUTLETS ACTIVE (POWER AND DATA) PROVIDING ALL NECESSARY PARTS, PLATES, ETC. FOR COMPLETE INSTALLATION. THIS APPLIES FOR THE ENTIRE SEATED FURNITURE SYSTEM. REFER TO THE SEATING VENDOR'S INSTALLATION DRAWINGS FOR FURTHER DETAILS.
- 34. CONTRACTOR TO PAY ALL FEES; VERIFY ALL INSTALLATION REQUIREMENTS PRIOR TO BID. CONTRACTOR TO PROVIDE COMPLETE SERVICES.
- 35. PROVIDE FIRE STOPPING AS REQUIRED BY CODE.
- 36. REFER TO SHEET E2.8 FOR LAYOUT OF ELEC ROOM EQUIPMENT AND OTHER DETAILS.
- 37. EXISTING 4" EMPTY CONDUIT DEDICATED FOR CONNECTION OF THIS BUILDING DATA SYSTEM WITH THE CAMPUS DATA SYSTEM.
- 38. ALL RECEPTABLES IN BOTH PENTHOUSES MOUNTED 36" AFF.
- 39. 120VAC CONNECTION FOR FIRE/SMOKE DAMPERS.
- 40. 120V POWER CONNECTION FOR MOTORIZED SHADES. COORDINATE INSTALLATION WITH THE SHADE VENDOR. CONTROL IS BY A WALL MOUNTED SWITCH.
- 41. ELEVATOR TELEPHONE CONNECTION. REFER TO SHEET E2.1 FOR DETAILS OF CONDUIT AND JUNCTION BOX ROUGH-IN FOR DATA, A/V, ETC.
- 42. CAT 6 CONNECTION FOR ELEVATOR CAMERAS; CABLES TO TRAVEL WITH ELEVATOR WIRE BUNDLE. REFER TO ELEVATOR SPECIFICATIONS.
- 44. VERIFY PLACEMENT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 45. AREA OF RESCUE CALL BOX. REFER TO SHEET E2.5 FOR DETAILS.
- 46. BOILER EMERGENCY SHUT DOWN BUTTON.

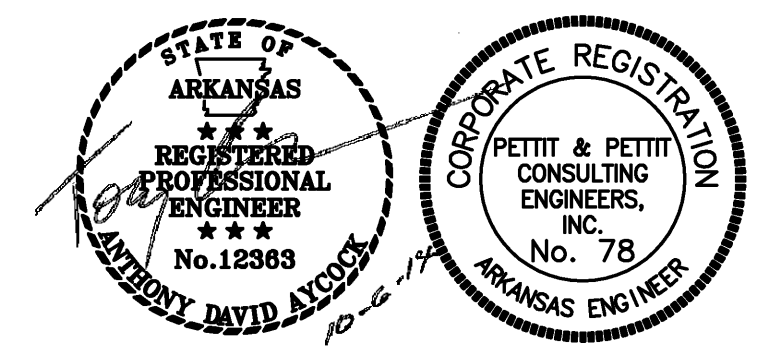
1 POWER AND SYSTEMS - SECOND FLOOR
SCALE 1/8" = 1'-0"

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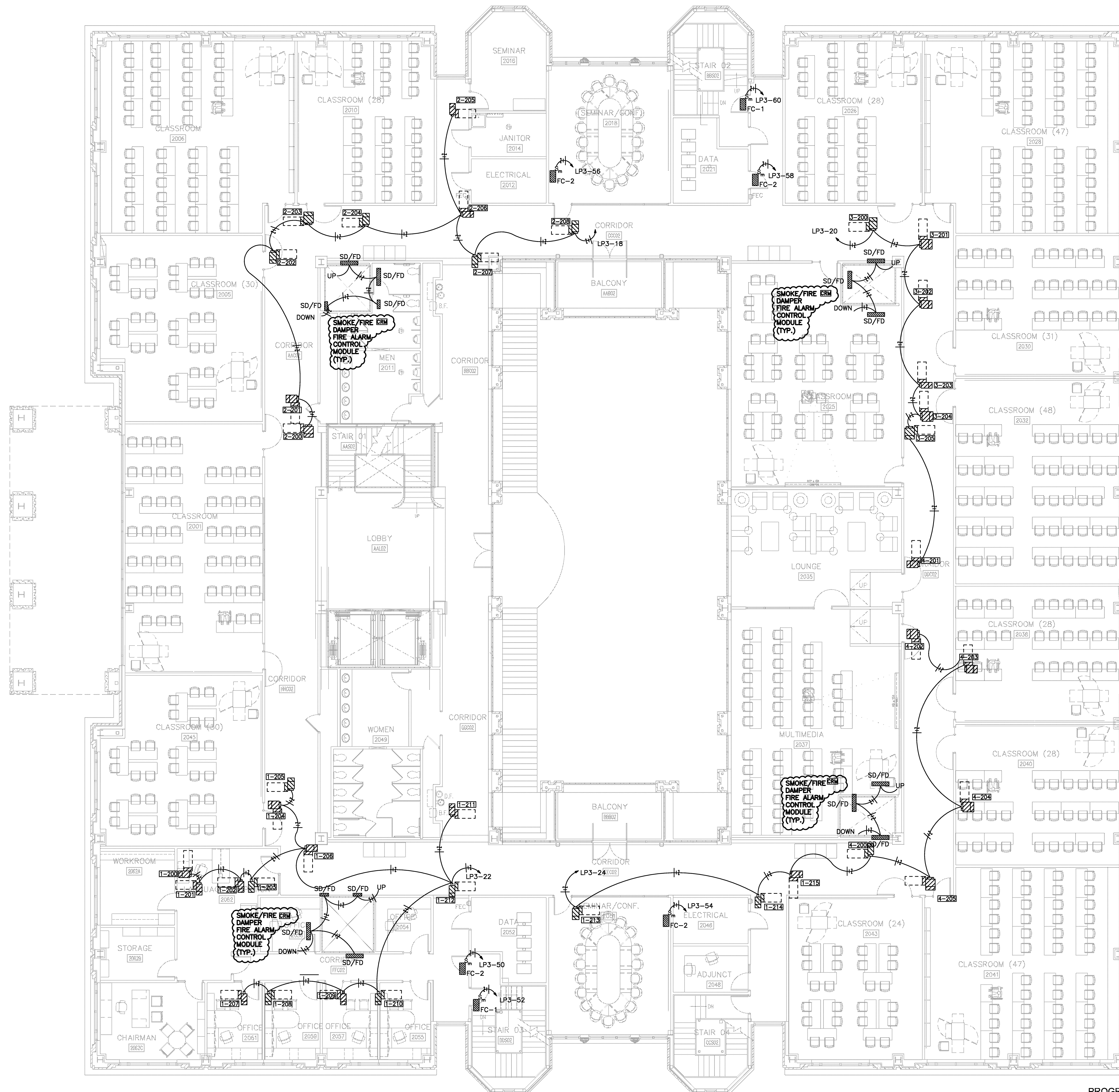
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Title: SECOND FLOOR - POWER AND SYSTEMS
Sheet Number: **E1.5**



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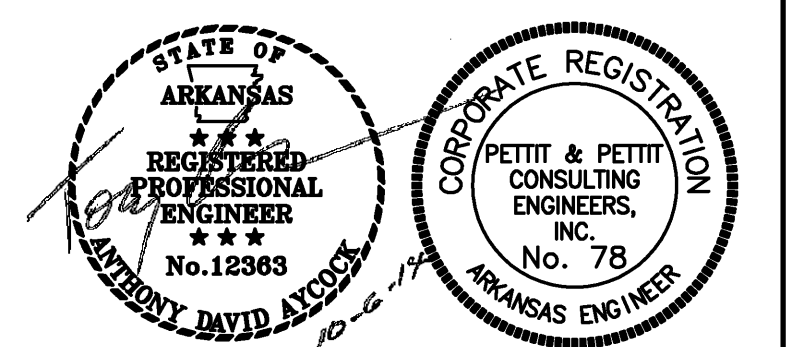
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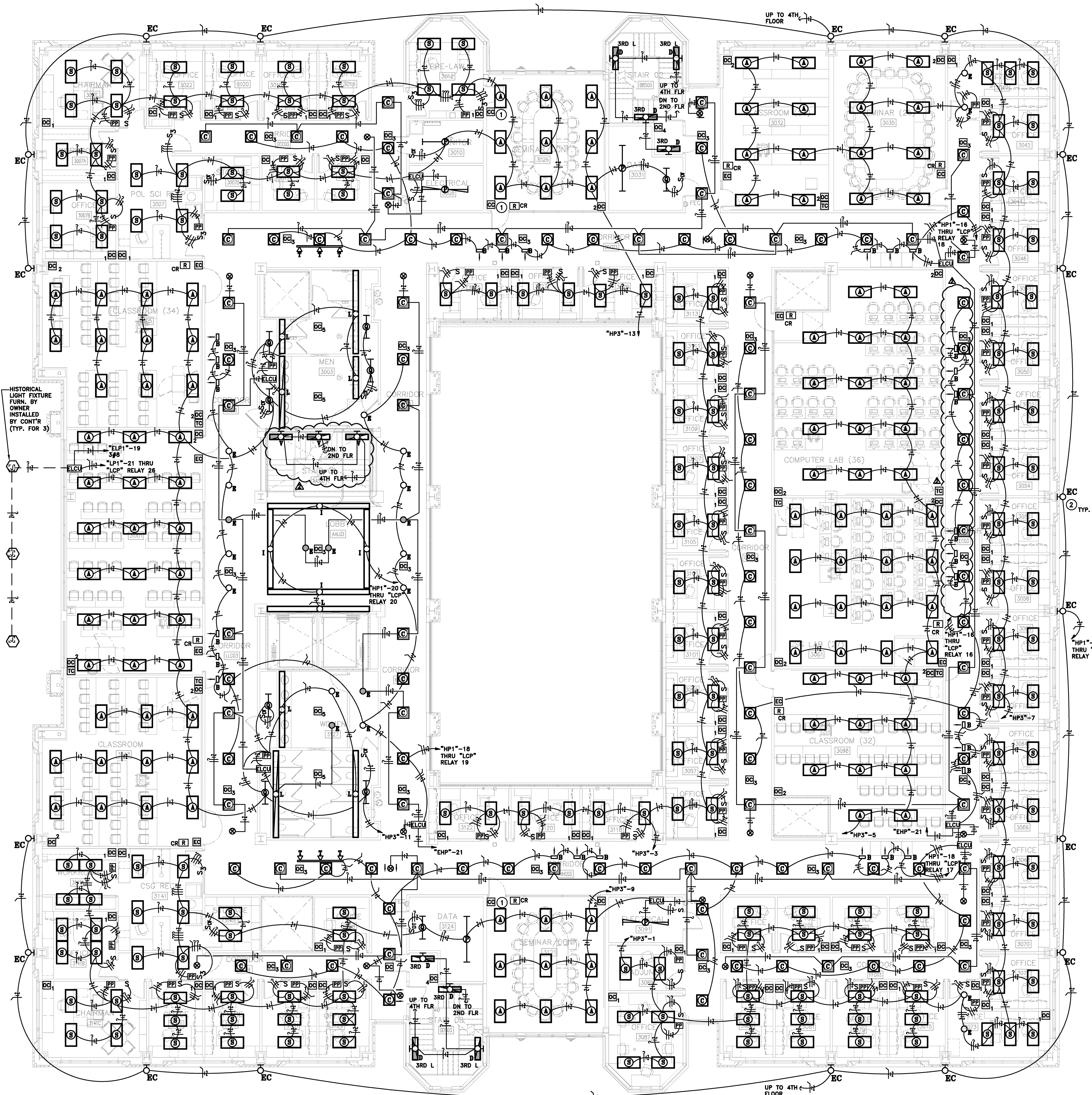


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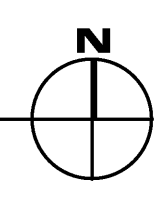
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Title: SECOND FLOOR - MECHANICAL POWER
Sheet Number: **E1.6**



KEYED ELECTRICAL NOTES	
①	CONFERENCE ROOM LIGHTING CONTROL SINGLE CHANNEL DIMMER CONTROL #LIGHT #nPODM-DX-CBA.
②	SEE ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR MOUNTING HEIGHT OF LIGHT FIXTURES.

HISTORICAL LIGHT FIXTURE FURN. BY OWNER INSTALLED BY CONTR (TYP. FOR 3)

1 THIRD FLOOR PLAN - LIGHTING
SCALE 1/8" = 1'-0"

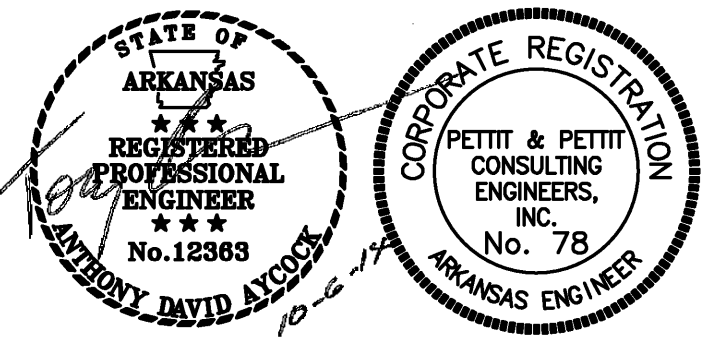


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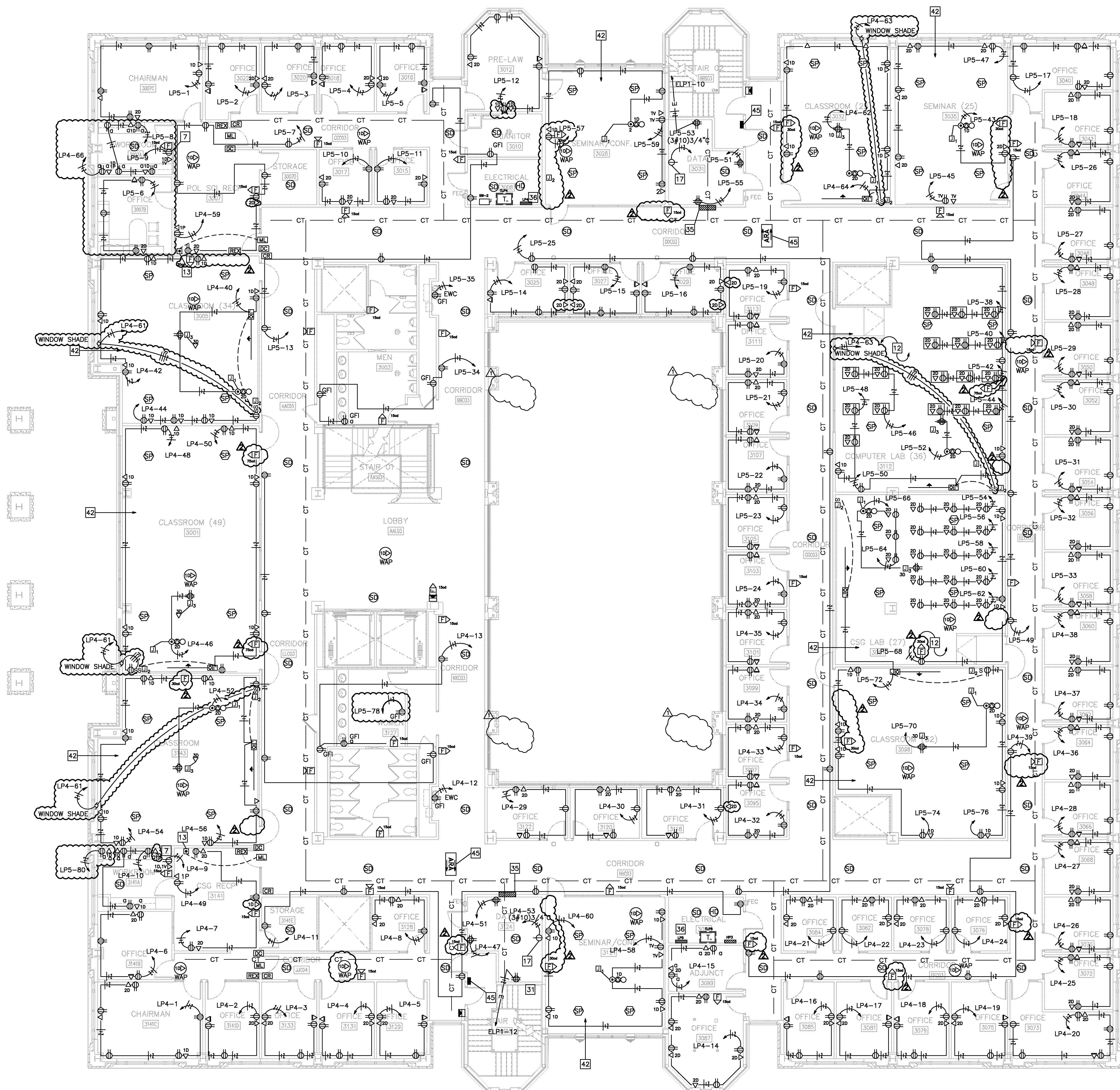


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Title: THIRD FLOOR PLAN - LIGHTING

Sheet Number: **E1.7**

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KEYED ELECTRICAL NOTES:

- KEYED NOTE SYMBOL
- 1. RECEPTACLE MOUNTED IN LIGHT POLE BASE.
- 2. RECEPTACLE MOUNTED HORIZONTALLY IN BRICK 18" AFF TO CENTER OF BOX. PROVIDE COMBINATION RECEPTACLE AND USB CHARGING PORT EQUAL TO ARROW/HART #TR7745; VERIFY COLOR WITH ARCHITECT.
- 3. FIRE ALARM SYSTEM ANNUNCIATOR AND FIRE DIGITERS COMMAND STATION.
- 4. FOUR 2" INCH CONDUITS IN/UNDER CONCRETE SLAB FOR DATA/VOICE CABLES.
- 5. JUNCTION BOX FOR AUTOMATIC DOORS.
- 6. PHOTO-COPIER; DEDICATED CIRCUIT.
- 7. VERIFY PLACEMENT WITH OWNER PRIOR TO ROUGH-IN.
- 8. CONNECT ALL TAMPERS AND ALL FLOW SWITCHES TO THE FAS; EACH AS A SEPARATE ADDRESSABLE POINT.
- 9. EXISTING UNDER FLOOR DUCT; PROVIDE OUTLETS AS SHOWN.
- 10. OUTLETS ABOVE CEILING FOR WIRELESS ACCESS POINT.
- 11. DATA OUTLETS AND RECEPTABLES IN FLOOR BOX W/REMOVAL #EFGS WITH REQUIRED ACCESSORIES.
- 12. REMOVE RELEASE BOTTOM FOR ENTRY.
- 13. 120V CONNECTION FOR INTERNAL RECEPTACLE AND LIGHTS.
- 14. POWER CONNECTION POINT FOR SEATING.
- 15. DATA CONNECTION POINT FOR SEATING.
- 16. L5-30 RECEPTACLE: (3#10) 3/4" C.
- 17. EXISTING ROUGH-IN JUNCTIONS FROM SHELL PROJECT. VERIFY AND INSTALL CAT 6 CABLE CONNECTION TO EACH CAMERA. TERMINATE WITH RJ45 JACK AT CAMERA AND AT NEAREST LI (CLOSE).
- 18. CONTRACTOR SHALL COORDINATE REQUIRED FUSE SIZE NEEDED FOR PROPER ELEVATOR OPERATION.
- 19. 200A/3P/NF-DISCONNECT SWITCH.
- 20. 30A/2P/15AF-SW FOR ELEVATOR LIGHTS AND CONTROL POWER; (4#12) 3/4" C.
- 21. EXISTING PUMPING EQUIPMENT REMOVED; REFER TO MECHANICAL PLANS.
- 22. COMBINATION 30A/3P/NF-SW AND NEMA #1 MOTOR STARTER. PROVIDE HOA SWITCH. FANS SHALL INTERFACE WITH THE FAS FOR SMOKE PURGE FUNCTION.
- 23. FACTORY FURNISHED NEMA 3R DISCONNECT; INSTALLED UNDER THIS CONTRACT.
- 24. 200A/3P/NF-DISCONNECT SWITCH; AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 25. COMBINATION 30A/1P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 26. COMBINATION 30A/3P/NF-SW AND NEMA #00 MOTOR STARTER. PROVIDE A HOA SWITCH.
- 27. RE-CIRC PUMP FOR WH-1; 120V AT .75 HP.
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- 29. FIRE PUMP CONTROLLER.
- 30. TELEPHONE BACK-BOARD (TTB); FROM 18" AFF TO FINISHED CEILING; REFER TO PLANS FOR TTB WIDTH.
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- 32. MAKE ALL OUTLETS ACTIVE (POWER AND DATA) PROVIDING ALL NECESSARY PARTS, PLATES, ETC. FOR COMPLETE INSTALLATION. THIS APPLIES FOR THE ENTIRE SEATED FURNITURE SYSTEM. REFER TO THE SEATING VENDOR'S INSTALLATION DRAWINGS FOR FURTHER DETAILS.
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- 44. AREA OF RESCUE CALL BOX. REFER TO SHEET E2.5 FOR DETAILS.
- 45. BOILER EMERGENCY SHUT DOWN BUTTON.

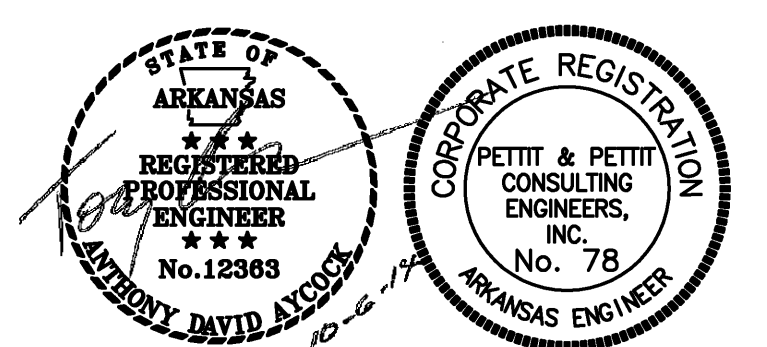
1 POWER AND SYSTEMS - THIRD FLOOR
SCALE 1/8" = 1'-0"

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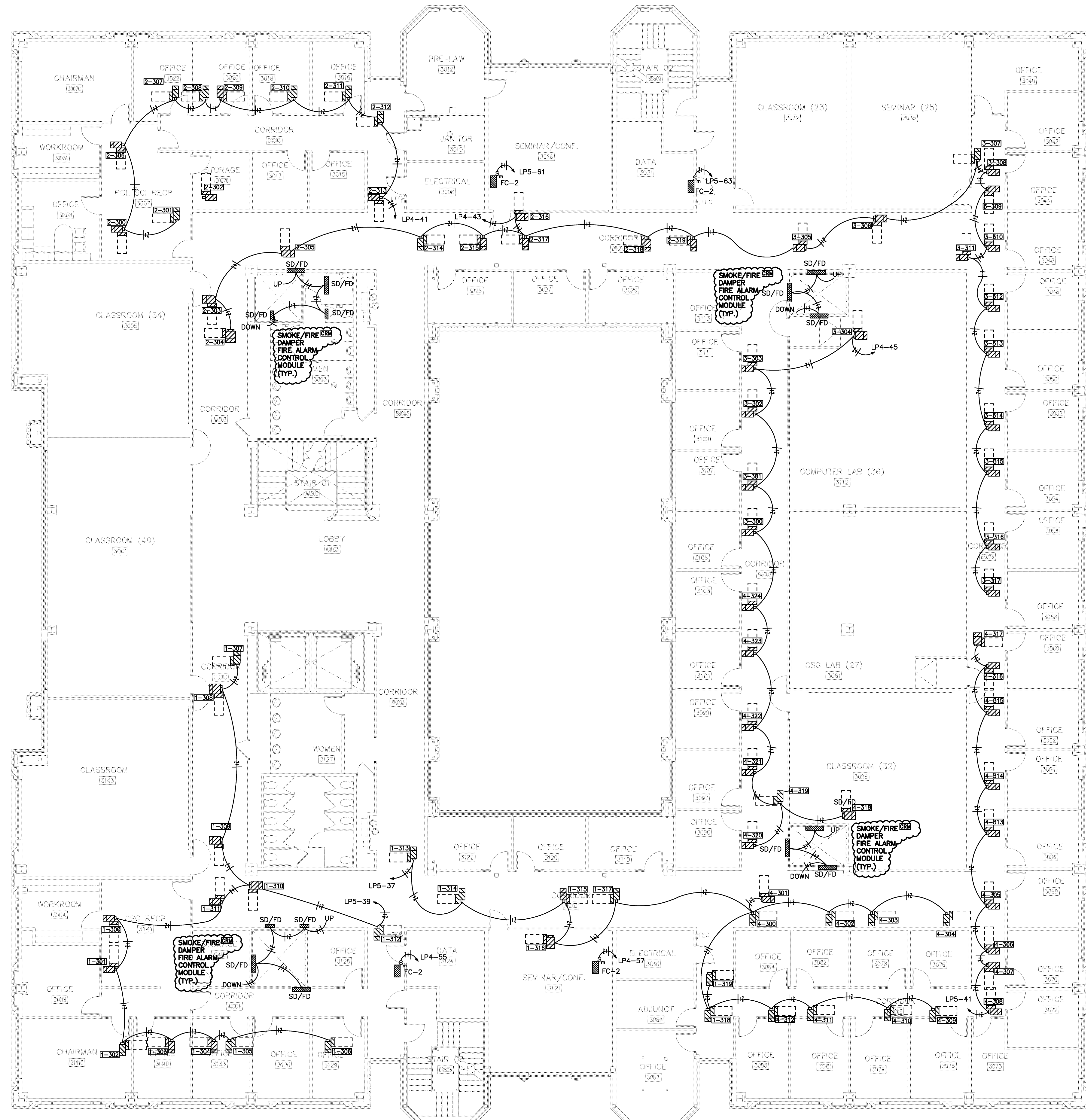


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Title: THIRD FLOOR - POWER AND SYSTEMS
Sheet Number: **E1.8**



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1 MECHANICAL POWER - THIRD FLOOR
SCALE 1/8" = 1'-0"

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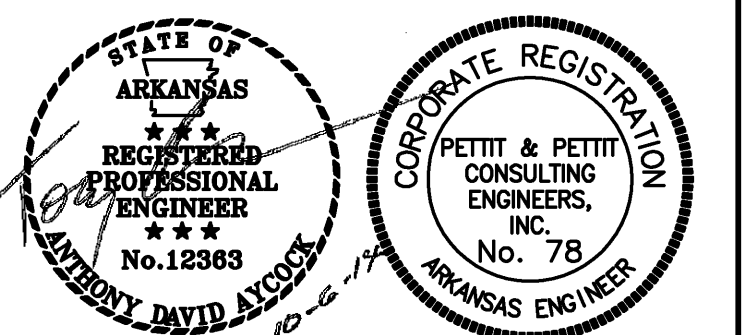
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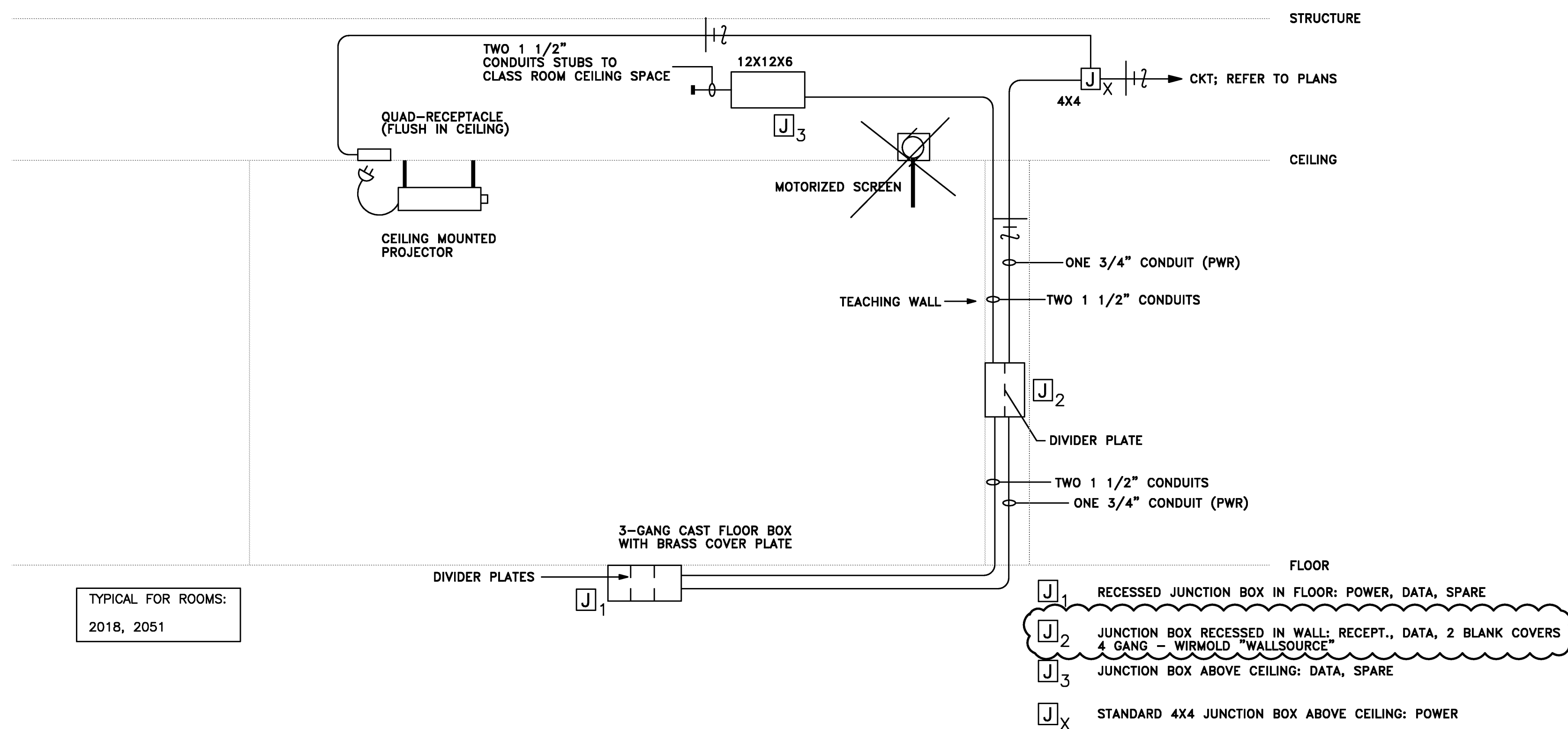
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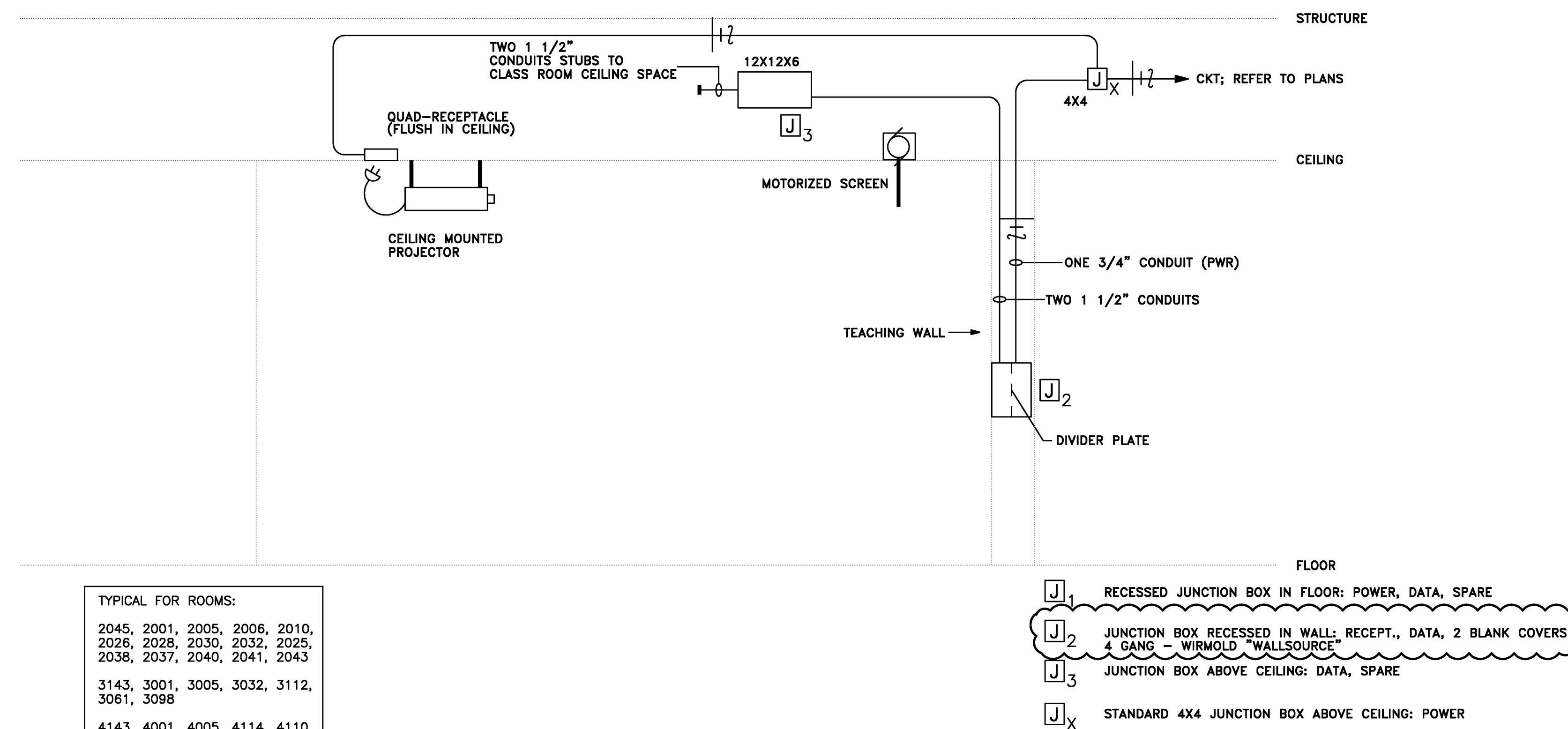
Title: THIRD FLOOR - MECHANICAL POWER
Sheet Number: **E1.9**



TYPICAL FOR ROOMS:
2018, 2051

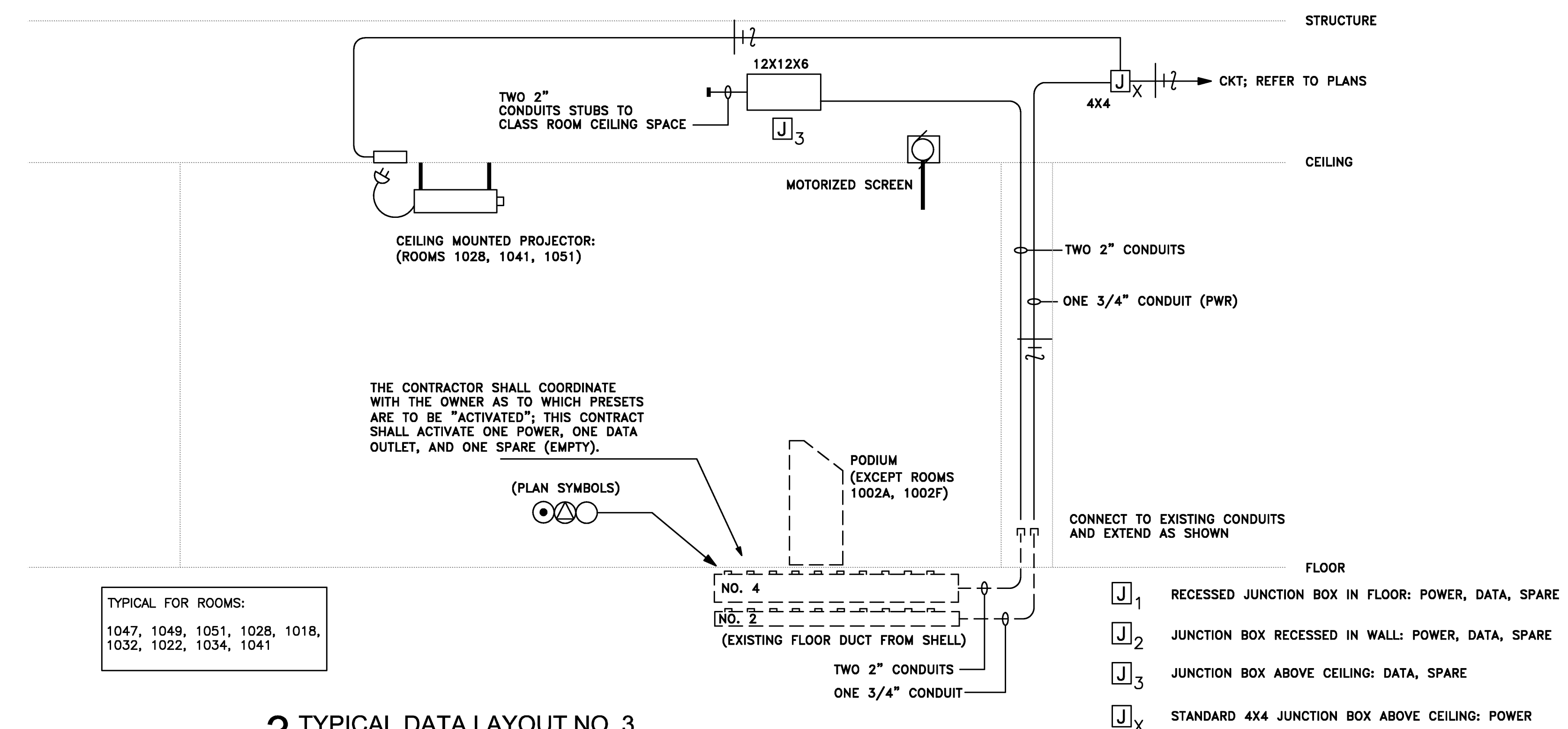
1 TYPICAL DATA LAYOUT NO. 1
SCALE NONE

THE CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED PARTS, DIVIDER PLATES, COVERS, GASKETS, ETC. TO FORM A COMPLETE INSTALLATION.



TYPICAL FOR ROOMS:
2045, 2001, 2005, 2006, 2010, 2026, 2028, 2030, 2032, 2025, 2038, 2037, 2040, 2041, 2043
3143, 3001, 3005, 3032, 3112, 3061, 3098
4143, 4001, 4005, 4114, 4110, 4098

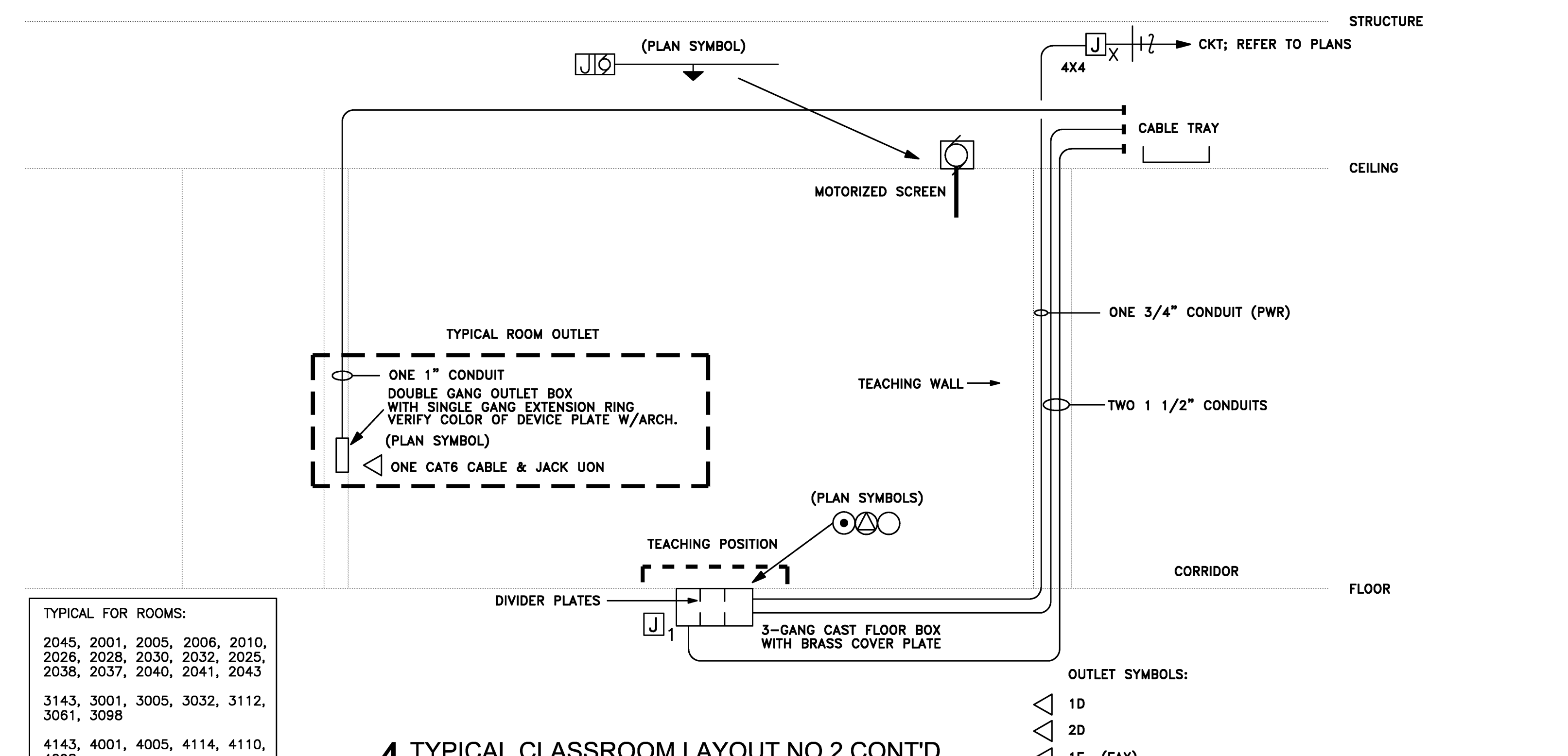
2 TYPICAL DATA LAYOUT NO. 2
SCALE NONE



TYPICAL FOR ROOMS:
1047, 1049, 1051, 1028, 1018, 1032, 1022, 1034, 1041

3 TYPICAL DATA LAYOUT NO. 3
SCALE NONE

THE CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED PARTS, ETC. TO FORM ACTIVE OUTLETS IN THE EXISTING FLOOR DUCT SYSTEM.



TYPICAL FOR ROOMS:
2045, 2001, 2005, 2006, 2010, 2026, 2028, 2030, 2032, 2025, 2038, 2037, 2040, 2041, 2043
3143, 3001, 3005, 3032, 3112, 3061, 3098
4143, 4001, 4005, 4114, 4110, 4098

4 TYPICAL CLASSROOM LAYOUT NO.2 CONT'D
SCALE NONE

THE CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED PARTS, DIVIDER PLATES, COVERS, GASKETS, ETC. TO FORM A COMPLETE INSTALLATION.

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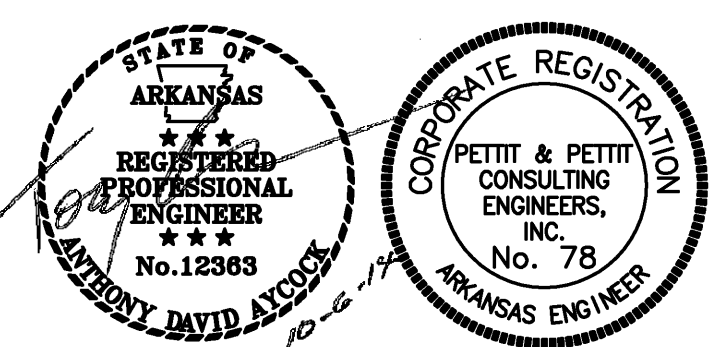
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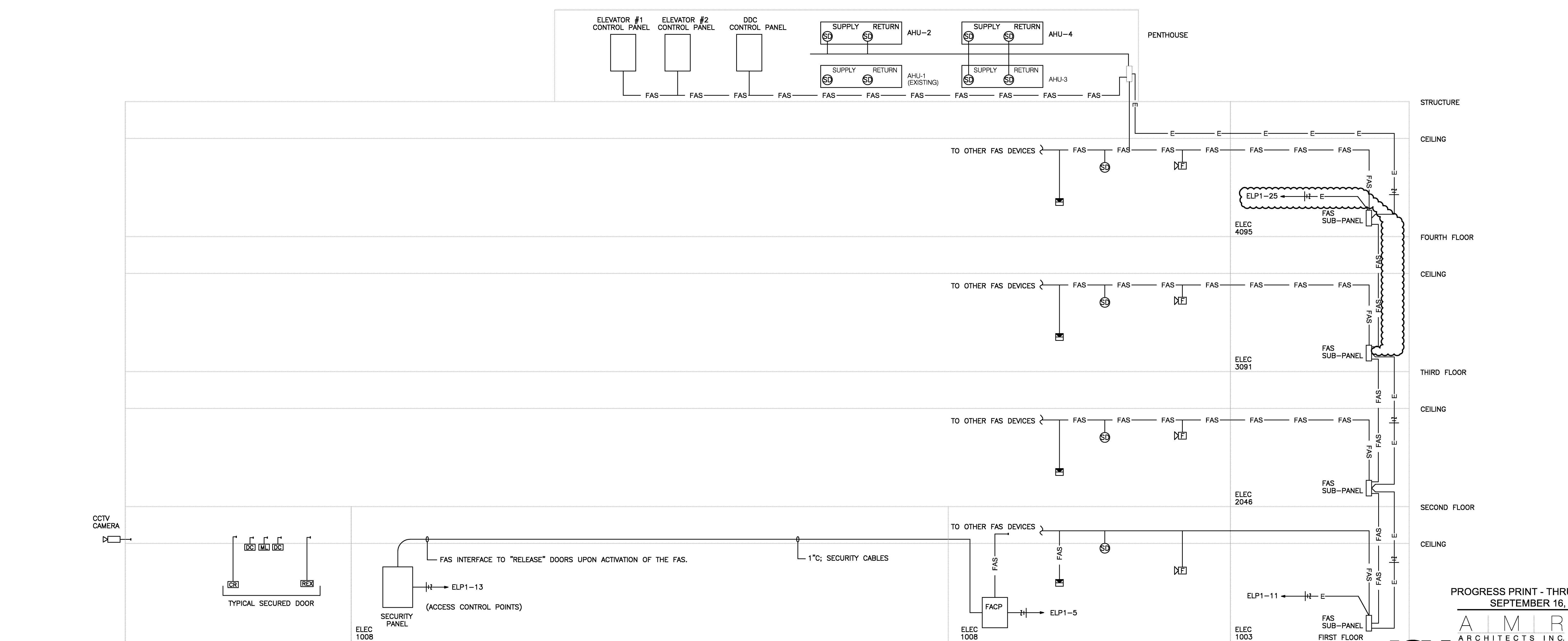
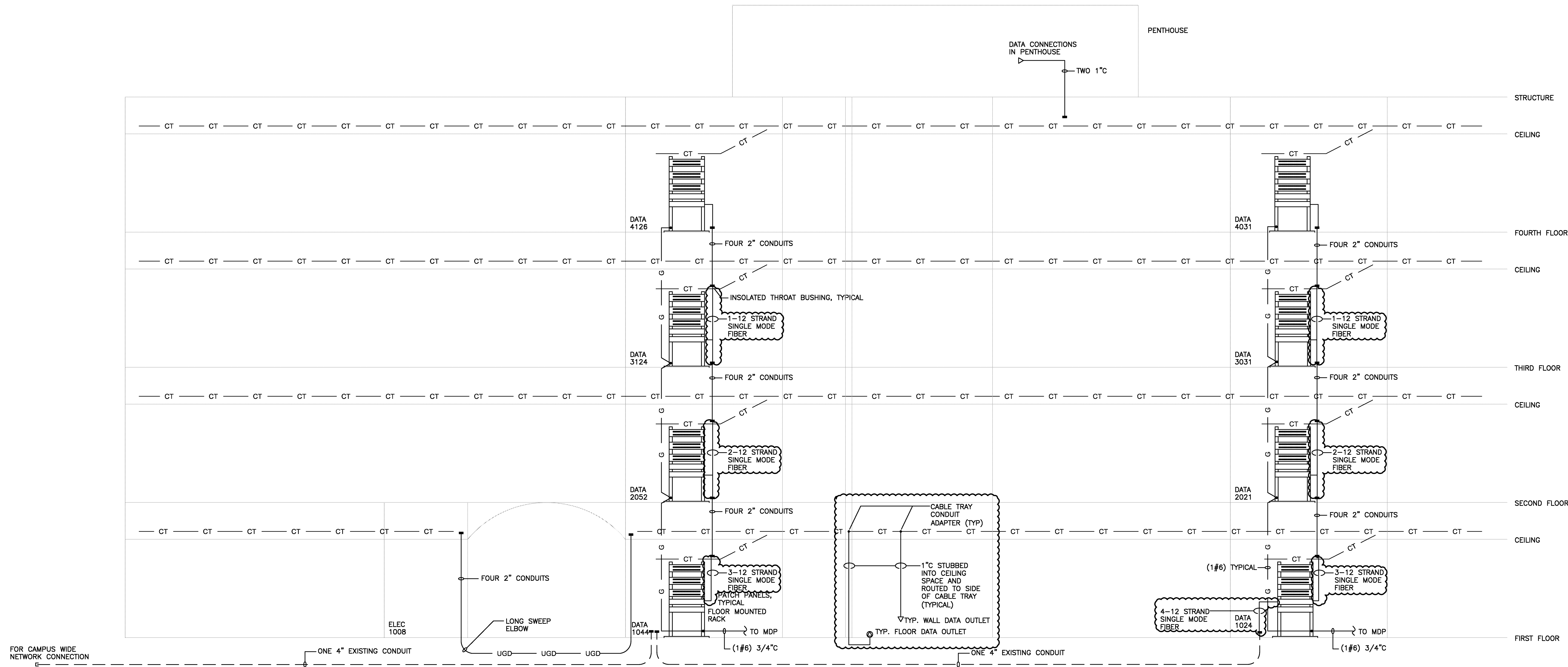
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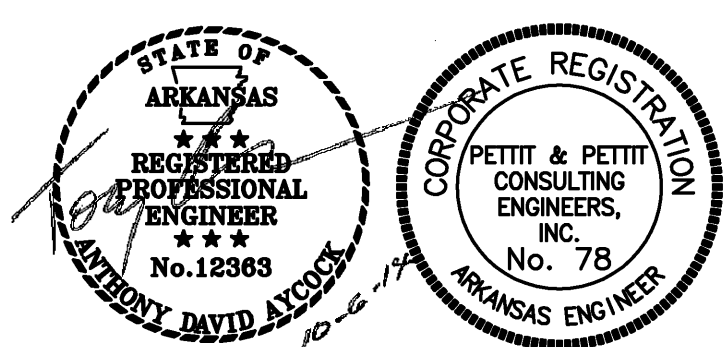
Title: TYPICAL ROOM DATA RISERS, DETAILS
Sheet Number: **E2.1**



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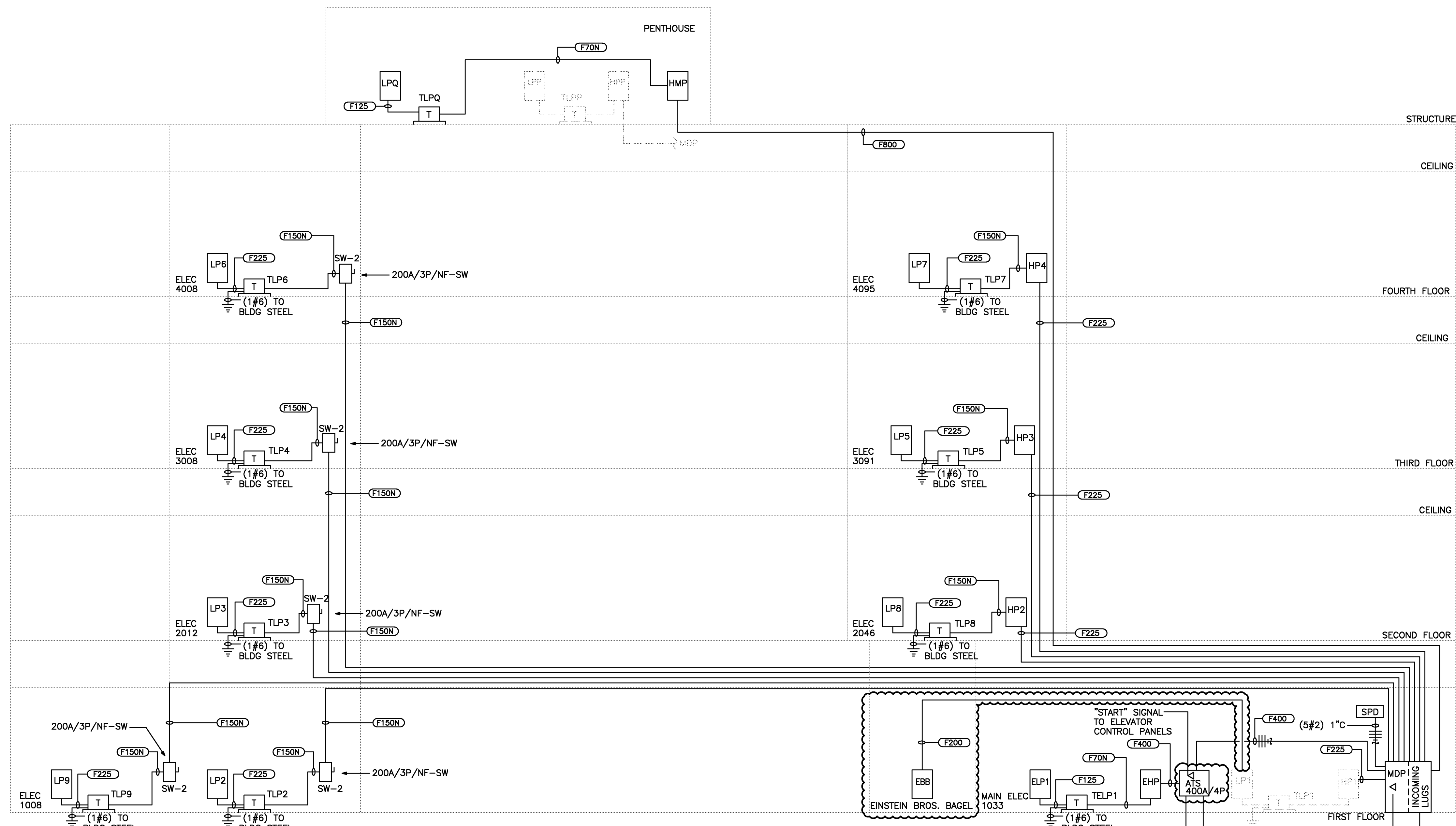
Title: DATA SYSTEM RISER, FIRE ALARM SYSTEM RISER
SECURITY SYSTEM RISER

Sheet Number: E2.2

VERIFIED SCALE
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SECURITY SYSTEM NOTES:
REFER TO PLANS FOR DEVICE COUNT. OWNER'S VENDOR SUPPLIES AND INSTALLS ALL SECURITY DEVICES.

FIRE ALARM SYSTEM NOTES:
REFER TO PLANS FOR DEVICE COUNT. FAS CABLES SHALL NOT BE RAN WITHIN THREE (3) FEET OF DATA/TEL SYSTEM CABLES. REFER TO SHEET E2.4 FOR ELEVATOR INTERFACE.

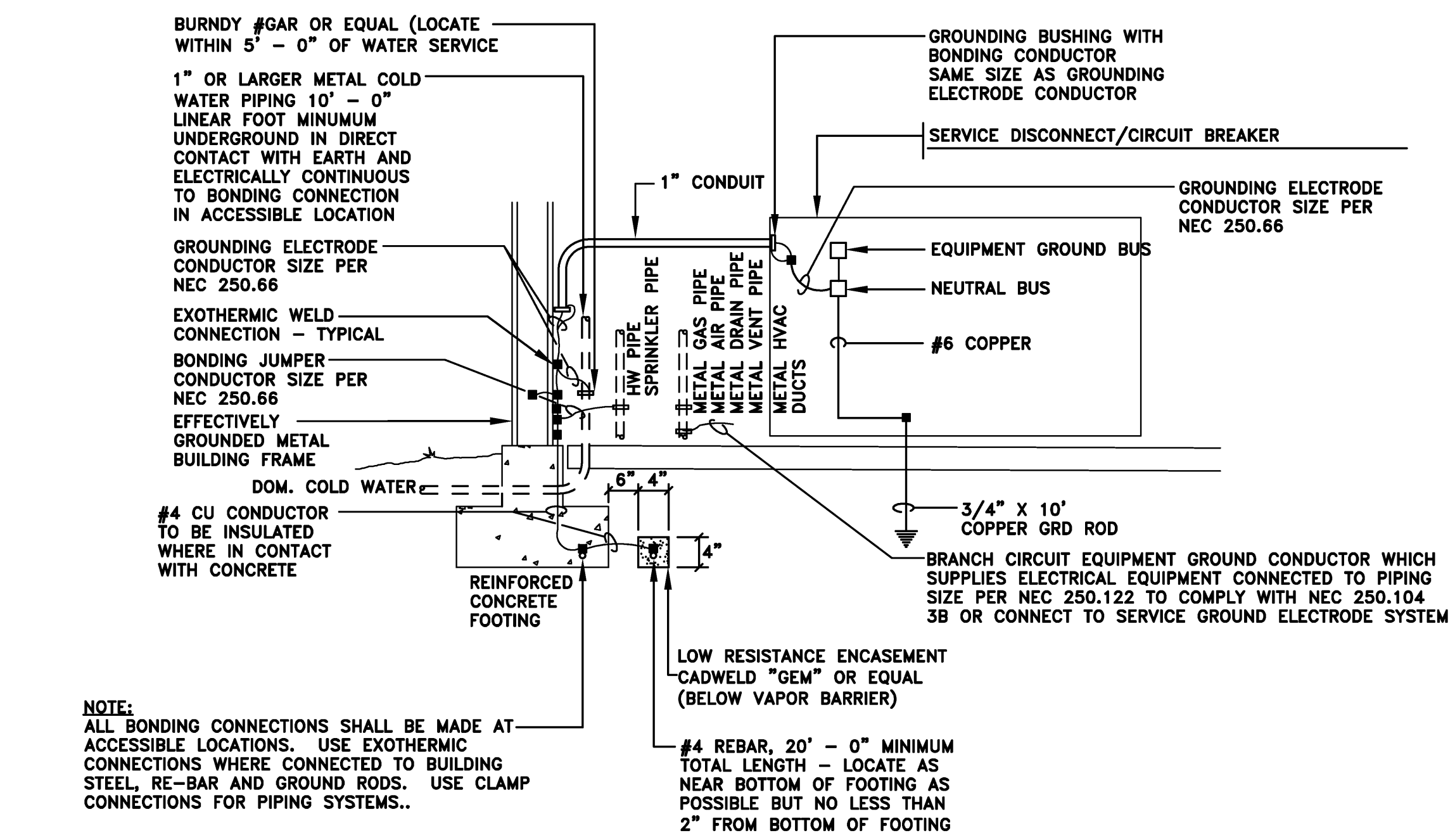


FEEDER SCHEDULE	
MARK	WIRE/CONDUIT
F70N	(3#4, 1#10) 1" C
F100	(4#2, 1#8) 1 1/2" C
F125	(4#2/0, 1#8) 2" C
F150N	(3#1/0, 1#8) 1 1/2" C
F225	(4#4/0, 1#4) 2 1/2" C
F400	(4#500MCM, 1#3) 4" C
F800	2 SETS [(4#500MCM, 1#1/0) 4" C]
F200	(4#3/0, 1#8) 3" C

TRANSFORMER SCHEDULE	
MARK	RATINGS
TLP1	45KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP1	EXISTING
TLP2	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP3	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP4	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP5	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP6	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP7	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP8	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLP9	75KVA-480VOLT-Δ/208VOLT-Y/3#/4W
TLPQ	45KVA-480VOLT-Δ/208VOLT-Y/3#/4W

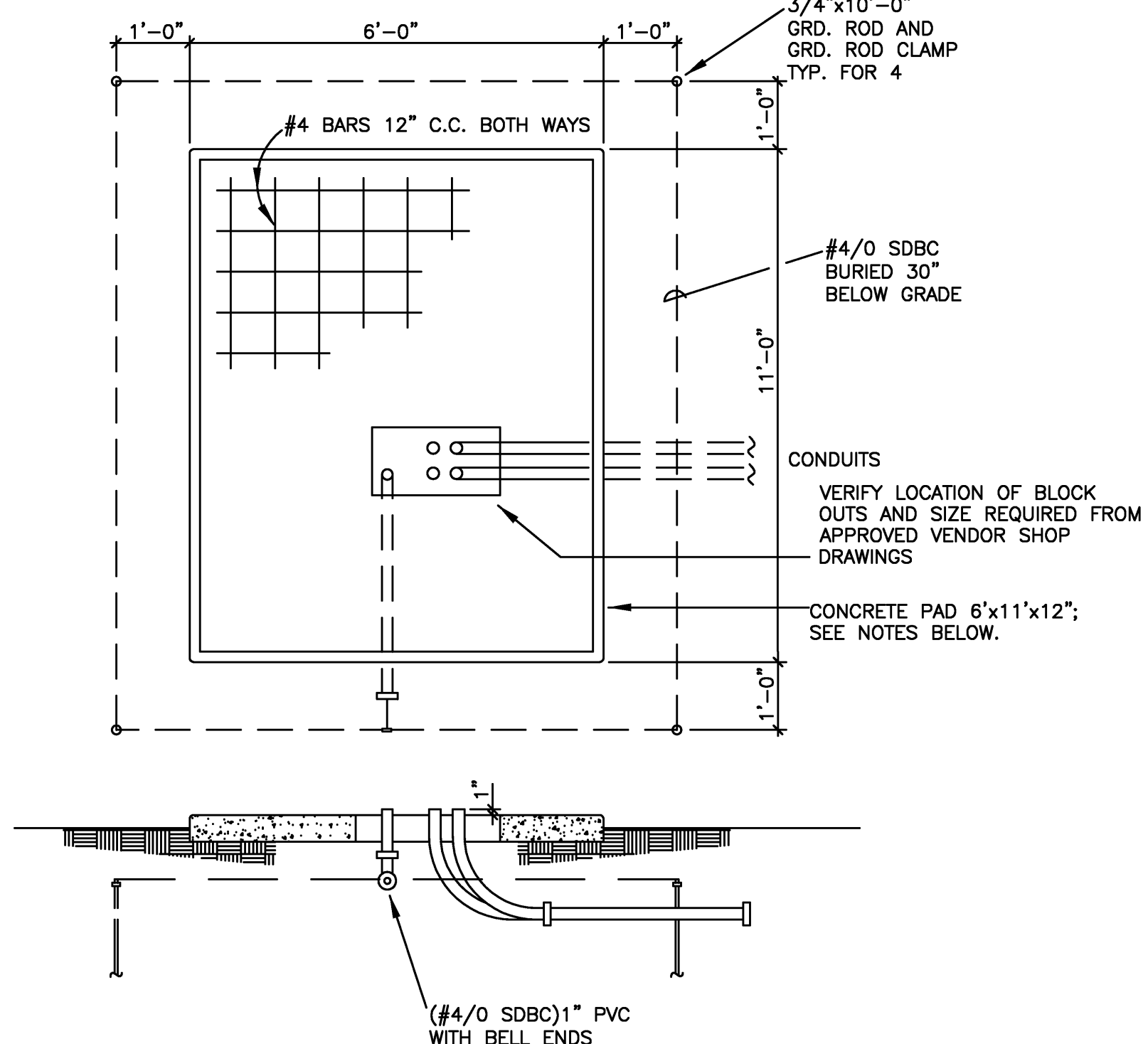
1 POWER RISER DIAGRAM

SCALE NONE
 NOTES:
 PROVIDE A POWER-LOGIC UNIT ON MDP.
 PROVIDE ADDITIONAL MONITOR POINTS IN THE CONTROL PANEL FOR:
 1) LOW FUEL
 2) TANK LEAK
 MOUNT "SPD" WITHIN 15 FEET OF "MDP" BUS.



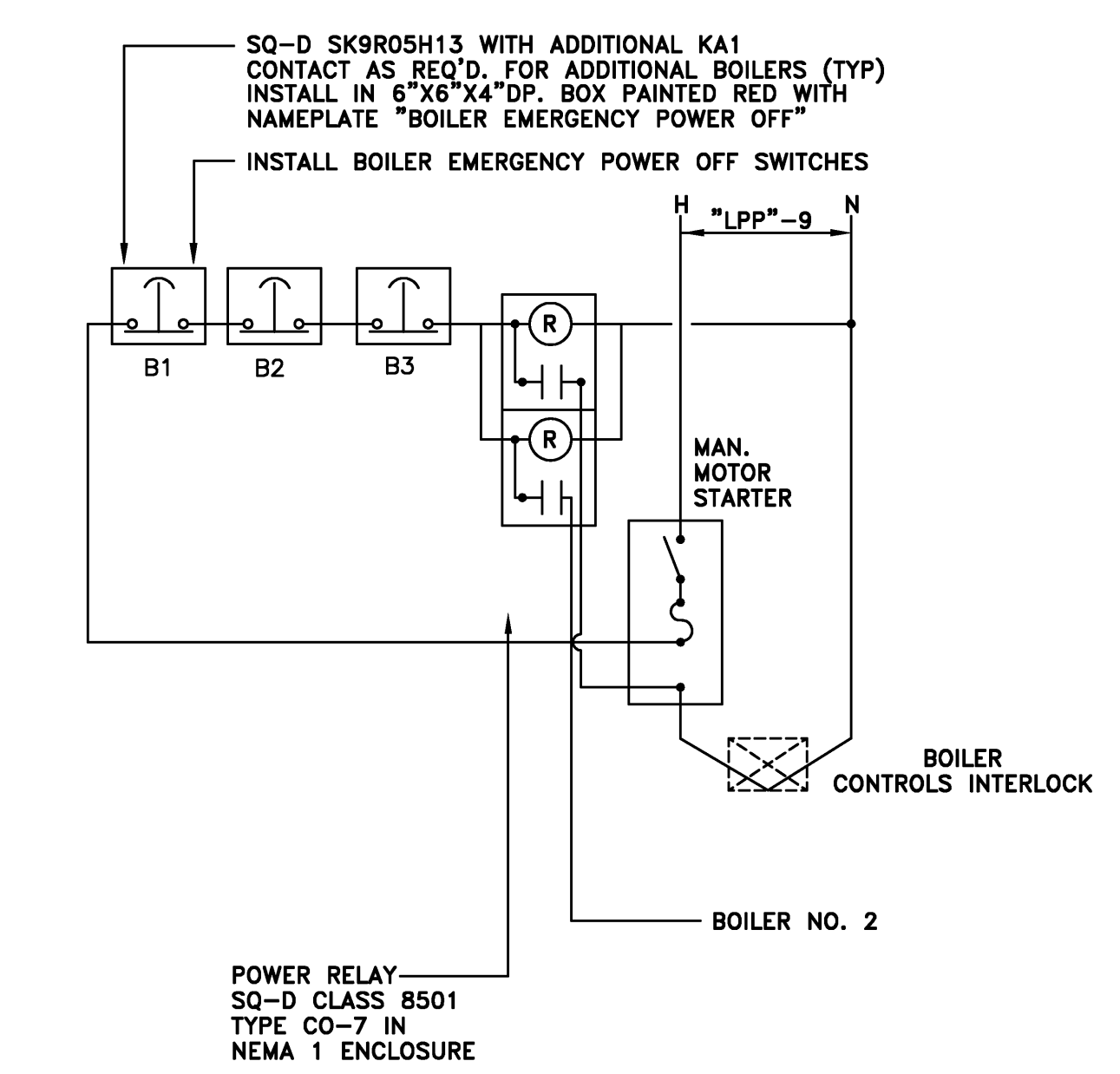
2 SERVICE GROUNDING DETAIL

SCALE NONE



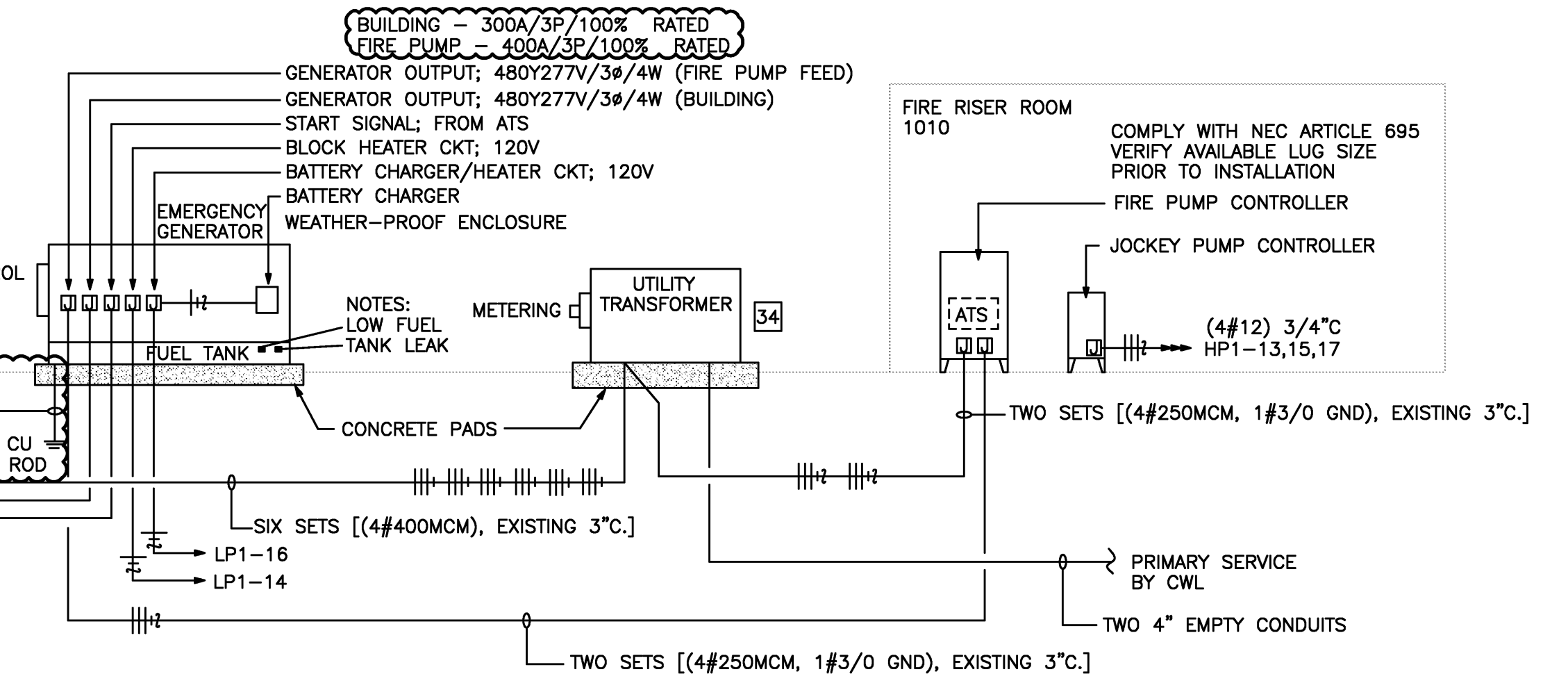
3 GEN-SET PAD DETAIL

SCALE NONE
 VERIFY SIZE BEFORE POURING;
 CONSTRUCT FOR AT LEAST THREE
 (3) FEET ON ALL SIDES OF
 GEN-SET.



4 BOILER EMERGENCY SHUT OFF DETAIL

SCALE NONE



NOTE:
 ALL BONDING CONNECTIONS SHALL BE MADE AT ACCESSIBLE LOCATIONS. USE EXOTHERMIC CONNECTIONS WHERE CONNECTED TO BUILDING STEEL, RE-BAR AND GROUND RODS. USE CLAMP CONNECTIONS FOR PIPING SYSTEMS.

NOTE:
 BURNDY #6AR OR EQUAL (LOCATE WITHIN 5' - 0" OF WATER SERVICE) 1" OR LARGER METAL COLD WATER PIPING 10' - 0" MINIMUM LINEAR FOOT MINIMUM UNDERGROUND IN DIRECT CONTACT WITH EARTH AND ELECTRICALLY CONTINUOUS TO BONDING CONNECTION IN ACCESSIBLE LOCATION

GROUNDING ELECTRODE CONDUCTOR SIZE PER NEC 250.66

EXOTHERMIC WELD CONNECTION - TYPICAL

BONDING JUMPER CONDUCTOR SIZE PER NEC 250.66

EFFECTIVELY GROUND METAL BUILDING FRAME

DOM. COLD WATER

#4 CU CONDUCTOR TO BE INSULATED WHERE IN CONTACT WITH CONCRETE

REINFORCED CONCRETE FOOTING

LOW RESISTANCE ENCASEMENT - CADWELD "GEM" OR EQUAL (BELOW VAPOR BARRIER)

#4 REBAR, 20' - 0" MINIMUM TOTAL LENGTH - LOCATE AS NEAR BOTTOM OF FOOTING AS POSSIBLE BUT NO LESS THAN 2" FROM BOTTOM OF FOOTING

GROUNDING BUSHING WITH BONDING CONDUCTOR SAME SIZE AS GROUNDING ELECTRODE CONDUCTOR

SERVICE DISCONNECT/CIRCUIT BREAKER

GROUNDING ELECTRODE CONDUCTOR SIZE PER NEC 250.66

EQUIPMENT GROUND BUS

NEUTRAL BUS

#6 COPPER

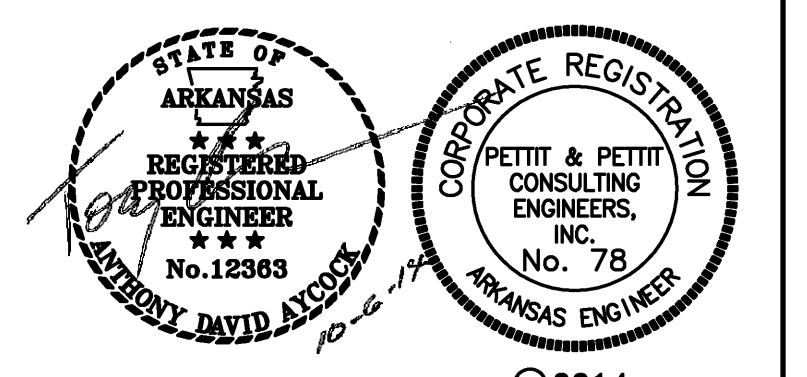
BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTOR WHICH SUPPLIES ELECTRICAL EQUIPMENT CONNECTED TO PIPING SIZE PER NEC 250.122 TO COMPLY WITH NEC 250.104 3B OR CONNECT TO SERVICE GROUND ELECTRODE SYSTEM

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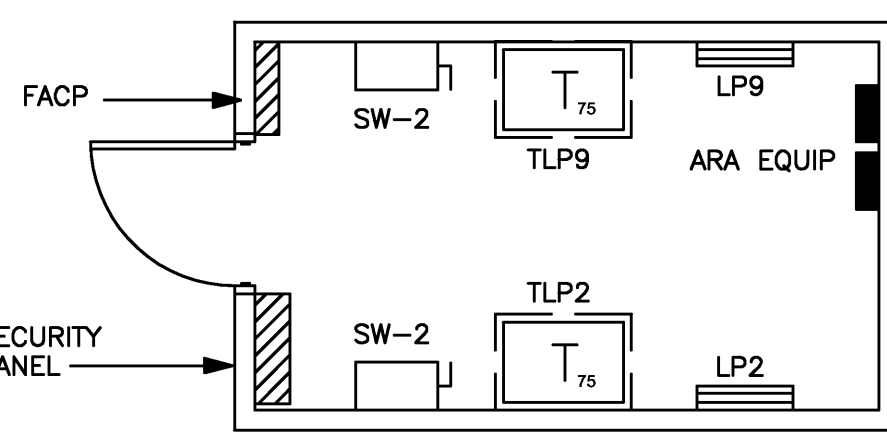
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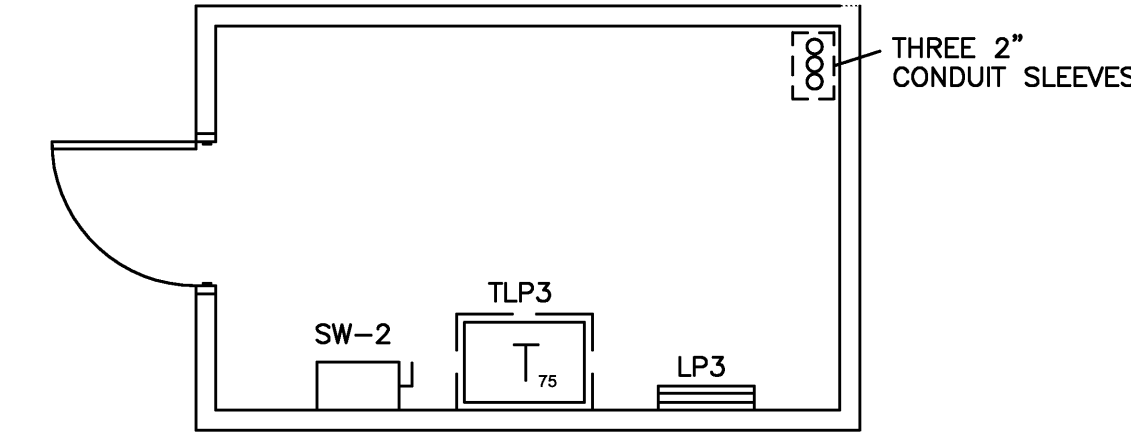
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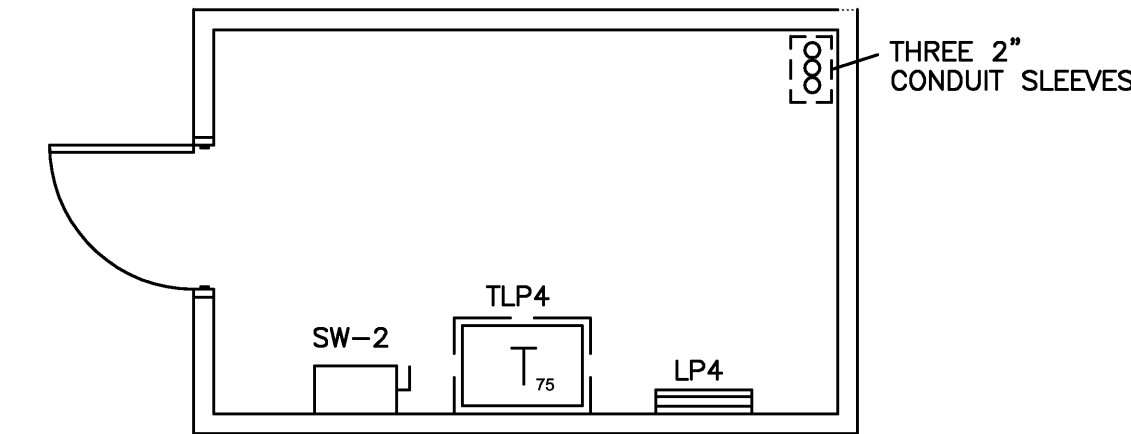
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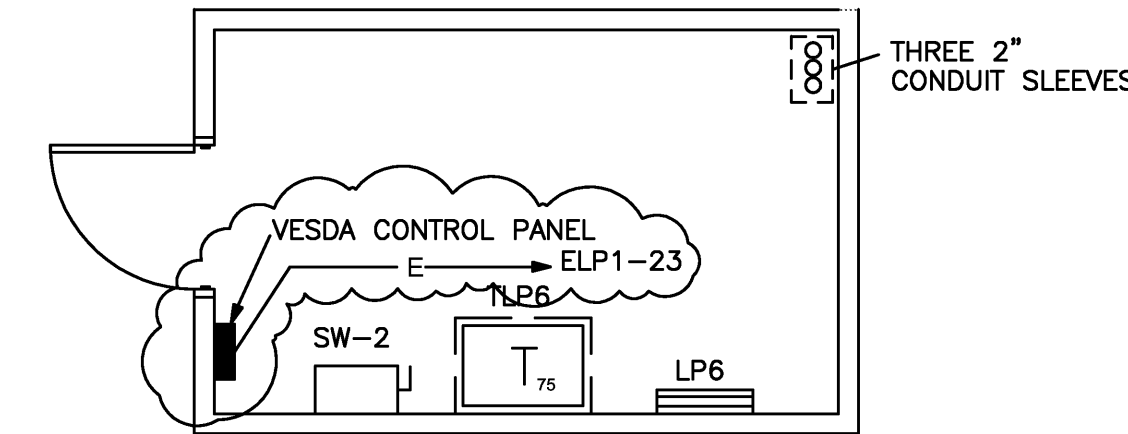
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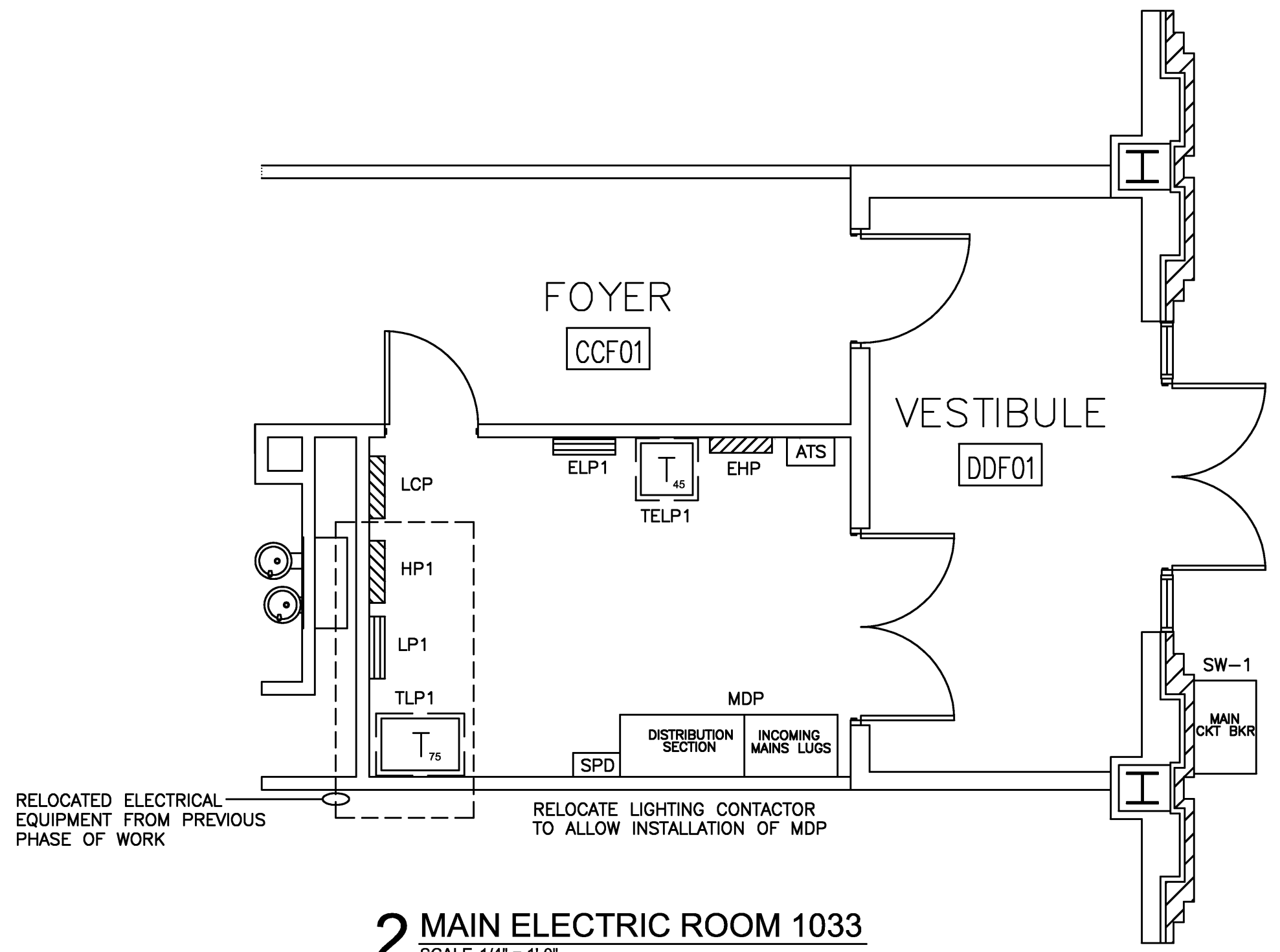
3 ELECTRIC ROOM 2012
SCALE 1/4" = 1'-0"



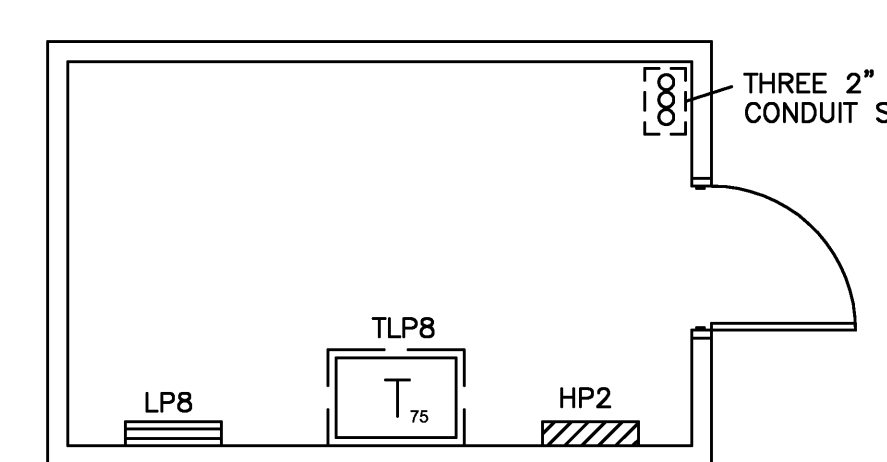
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SCALE 1/4" = 1'-0"



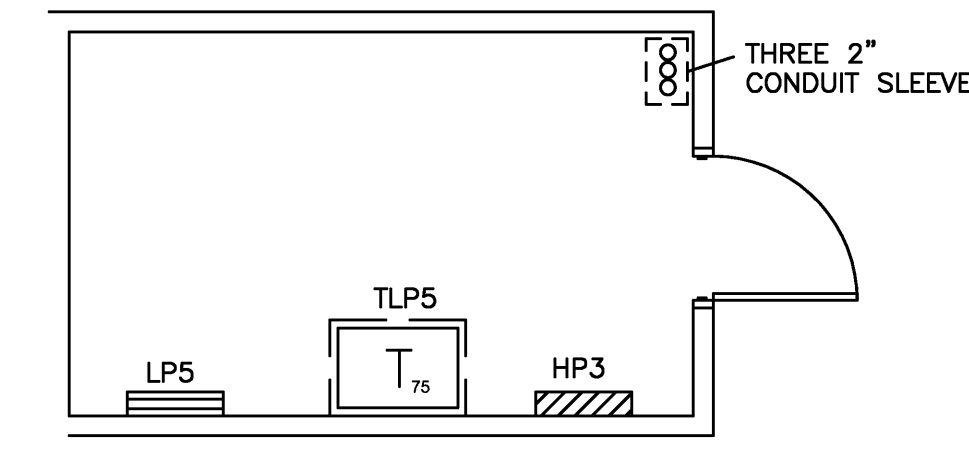
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SCALE 1/4" = 1'-0"



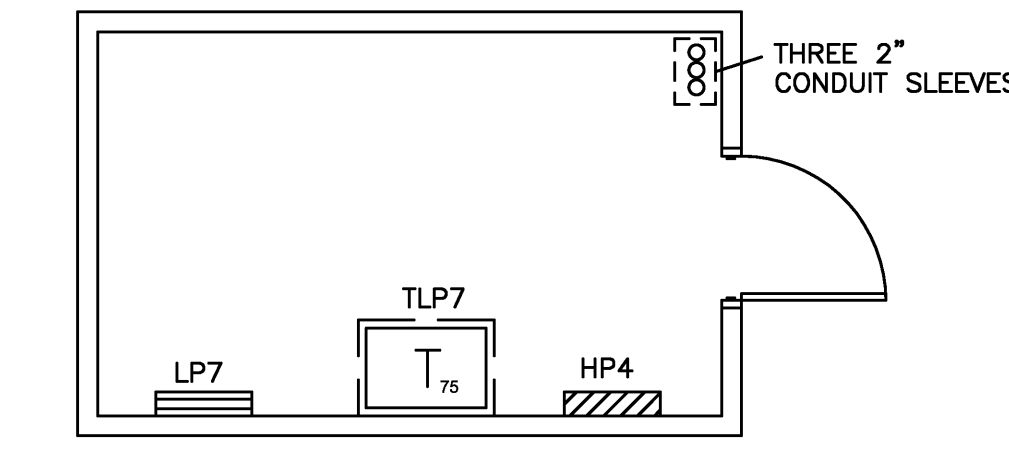
2 MAIN ELECTRIC ROOM 1033
SCALE 1/4" = 1'-0"



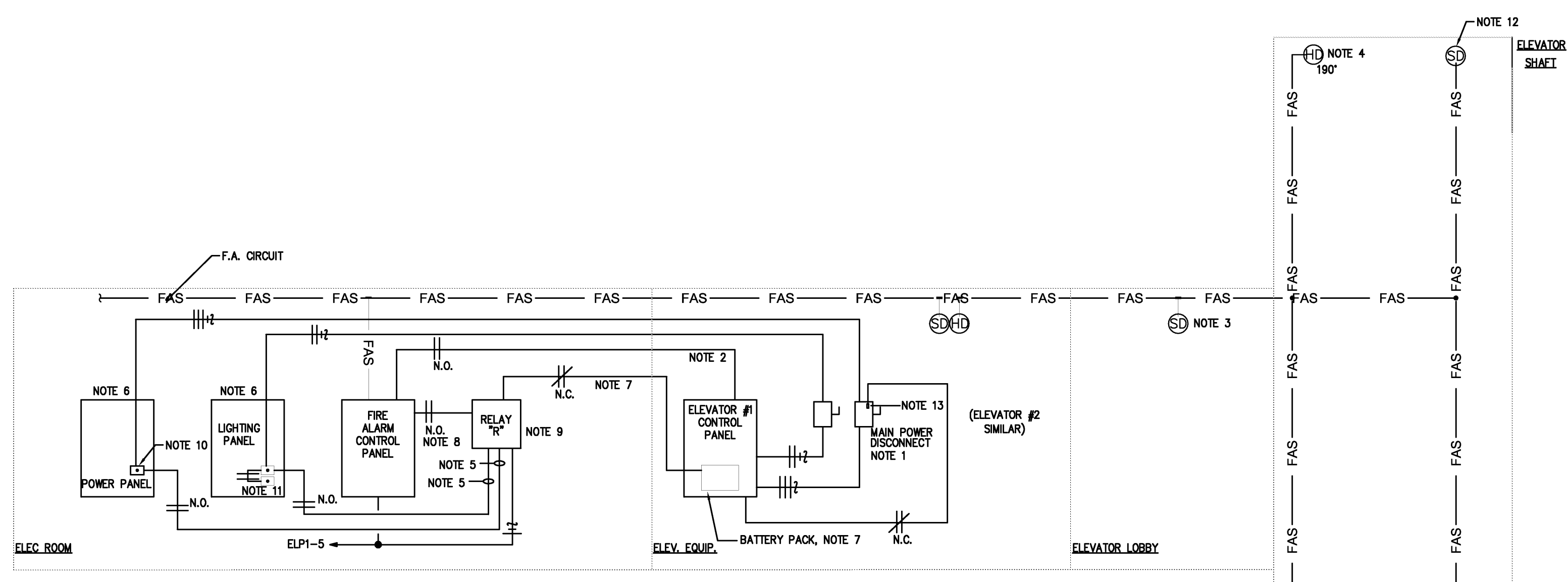
4 ELECTRIC ROOM 2046
SCALE 1/4" = 1'-0"



6 ELECTRIC ROOM 3091
SCALE 1/4" = 1'-0"



8 ELECTRIC ROOM 4095
SCALE 1/4" = 1'-0"



- NOTES**
- FUSED DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS, COORDINATE WITH ELEVATOR VENDOR FOR PROPER OVERCURRENT SELECTION ON THE MAIN POWER.
 - ELEVATOR RECALL SIGNAL (PHASE I FIRE SERVICE) FROM FAS TO ELEVATOR CONTROL PANEL.
 - EACH ELEVATOR LOBBY SMOKE DETECTOR PROGRAMMED IN THE FAS TO RETURN THE CAB TO ALTERNATE DESIGNATED FLOOR IF DETECTOR IS ACTIVATED.
 - TEMPERATURE SETTING OF HEAT DETECTOR SET LOWER THAN SPRINKLER HEAD. ACTIVATION OF THE SHAFT MOUNTED HEAT DETECTOR SHALL INITIATE GENERAL BUILDING ALARM, ELEVATOR RECALL FUNCTION, AND SHUNT TRIP POWER FEEDERS AFTER ELEVATOR CAB IS STOPPED AT DESIGNATED FLOOR AND DOORS ARE LOCKED OPEN.
 - SHUNT TRIP SIGNAL (120 VAC) FROM RELAY BOX "R" TO SHUNT TRIP CIRCUIT BREAKERS.
 - REFER TO PLANS AND DETAILS FOR PANELS, CIRCUITS, WIRE, AND CONDUIT SIZES.
 - CIRCUIT DISCONNECT FOR ELEVATOR BATTERY PACK WHERE PROVIDED. CONNECT AS DIRECTED BY THE ELEVATOR EQUIPMENT INSTALLER.
 - SIGNAL FROM FAS TO ENERGIZE RELAY "R". RELAY BOX IS 12" x 12" x 6" (OR AS REQUIRED) WITH SCREW ON COVER. PROVIDE A 4PDT RELAY (COIL VOLTAGE TO INTERFACE WITH FAS).
 - THREE POLE SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR MAIN POWER.
 - SINGLE POLE SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR CONTROL CIRCUIT AND ELEVATOR LIGHTS.
 - SHAFT MOUNTED SMOKE DETECTORS, WHEN ACTIVATED, SHALL INITIATE THE ELEVATOR RECALL FUNCTION AND SOUND THE GENERAL BUILDING ALARM.
 - PROVIDE ONE FORM "C" INTERLOCK ON MAIN POWER DISCONNECT. UNDER SERVICE CONDITIONS, INTERLOCK TELLS ELEVATOR CONTROL NOT TO LOWER CAB.

1 FIRE ALARM SYSTEM INTERFACE WITH ELEVATOR
SCALE: NONE

LIGHTING CONTROL PANEL "LCP" SCHEDULE

RELAY	CIRCUIT #	DESCRIPTION / NOTES
1	*HP1*-28	LIGHTS FIRST FLOOR EAST VESTIBULE
2	*HP1*-28	LIGHTS FIRST FLOOR EAST CORRIDOR
3	*HP1*-30	LIGHTS FIRST FLOOR WEST CORRIDOR
4	*HP1*-30	LIGHTS FIRST FLOOR NORTHWEST CORRIDOR
5	*HP1*-32	LIGHTS FIRST FLOOR MAIN LOBBY
6	*HP1*-32	LIGHTS FIRST FLOOR ELEVATOR LOBBY
7	*HP1*-32	LIGHTS FIRST FLOOR MAIN LOBBY WALLS
8	*HP1*-34	LIGHTS SOUTHEAST STAIR
9	*HP1*-34	LIGHTS SOUTHWEST STAIR
10	*HP1*-34	LIGHTS NORTHEAST STAIR
11	*HP1*-22	LIGHTS SECOND FLOOR EAST CORRIDOR
12	*HP1*-24	LIGHTS SECOND FLOOR SOUTH CORRIDOR
13	*HP1*-22	LIGHTS SECOND FLOOR NORTH CORRIDOR
14	*HP1*-24	LIGHTS SECOND FLOOR WEST CORRIDOR
15	*HP1*-28	LIGHTS SECOND FLOOR ELEVATOR LOBBY
16	*HP1*-16	LIGHTS THIRD FLOOR EAST CORRIDOR
17	*HP1*-18	LIGHTS THIRD FLOOR SOUTH CORRIDOR
18	*HP1*-18	LIGHTS THIRD FLOOR NORTH CORRIDOR
19	*HP1*-18	LIGHTS THIRD FLOOR WEST CORRIDOR
20	*HP1*-20	LIGHTS THIRD FLOOR ELEVATOR LOBBY
21	*HP1*-10	LIGHTS FOURTH FLOOR EAST CORRIDOR
22	*HP1*-12	LIGHTS FOURTH FLOOR SOUTH CORRIDOR
23	*HP1*-10	LIGHTS FOURTH FLOOR NORTH CORRIDOR
24	*HP1*-12	LIGHTS FOURTH FLOOR WEST CORRIDOR
25	*HP1*-14	LIGHTS FOURTH FLOOR ELEVATOR LOBBY
26	*LP1*-21	LIGHTS HISTORIC EXTERIOR WEST ENTRY
27	*HP1*-25	LIGHTS EXTERIOR THIRD LEVEL
28	*HP1*-27	LIGHTS EXTERIOR POLES SOUTH
29	*HP1*-29	LIGHTS EXTERIOR SIDEWALK
30	*HP1*-31	LIGHTS EXTERIOR SIDEWALK
31	*HP1*-33	LIGHTS EXTERIOR SIDEWALK
32	*HP1*-35	LIGHTS FIRST FLOOR NORTH VESTIBULE
33	*HP1*-35	LIGHTS FIRST FLOOR SOUTH VESTIBULE
34	*HP1*-37	LIGHTS ATRIUM WALL MOUNTED
35	*HP1*-37	LIGHTS ATRIUM LOW LEVEL STEP, POLES, BOLLARDS
36	*HP1*-39	LIGHTS ART/PAINTING DISPLAY ATRIUM
37	*HP1*-41	LIGHTS ATRIUM SUSPENDED CABLE
38	*HP1*-39	LIGHTS ATRIUM SECOND FLOOR BALCONIES
39	*HP1*-39	LIGHTS ELEVATOR LOBBIES ALL FLOORS
40	*HP1*-39	LIGHTS FIRST FLOOR SOUTH CENTRAL CORRIDOR
41	*HP1*-39	LIGHTS FIRST FLOOR NORTH CENTRAL CORRIDOR
42	SPACE	FUTURE USE
43	SPACE	
44	SPACE	
45	SPACE	
46	SPACE	
47	SPACE	
48	SPACE	

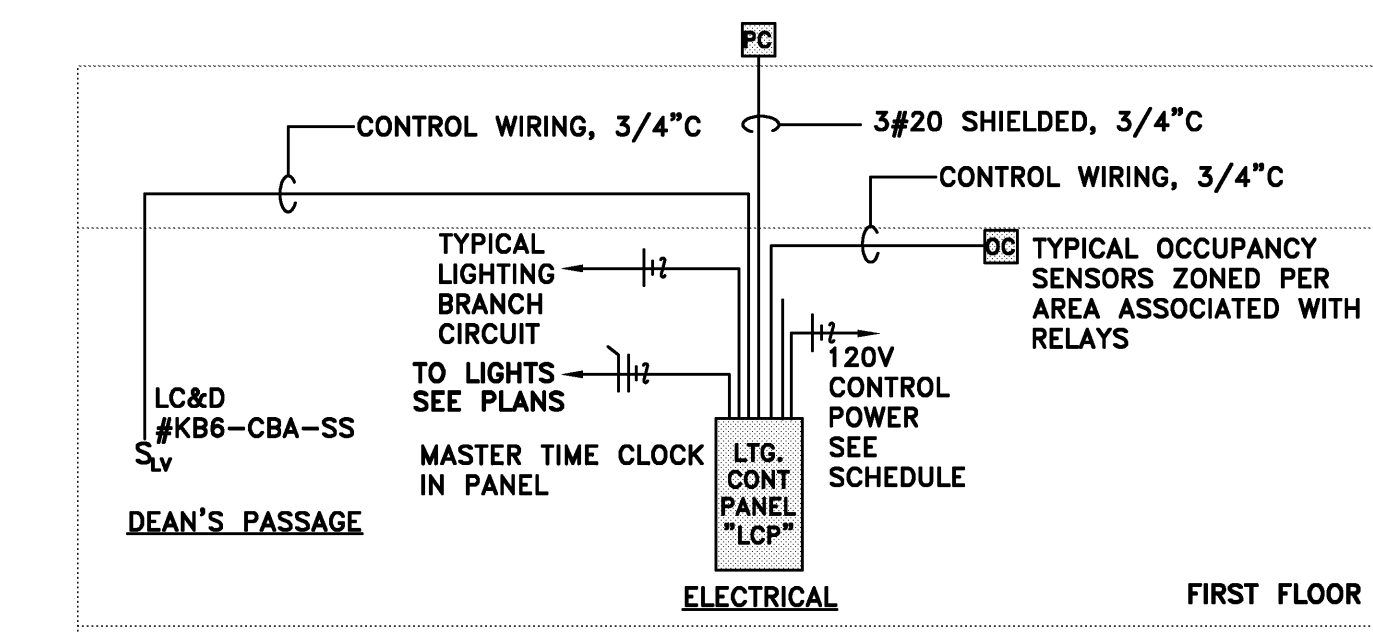
"LCP" LIGHTING CHANNEL SCHEDULE

CHANNEL	CHANNEL DESCRIPTION	CONTROL STRATEGY
A	PUBLIC LOBBY AND CORRIDOR LIGHTS	MANUAL ON OCCUPANCY SENSOR TIME SCHEDULE OFF
B	STREET AND SIDEWALK LIGHTS	PHOTOCELL ON/OFF
C	BUILDING MOUNTED LIGHTS	PHOTOCELL ON/OFF
D	ATRIUM CABLE SUSPENDED LIGHTS	PHOTOCELL ON/TIME SCHEDULE OFF
E	ATRIUM WALL MOUNTED CYLINDER LIGHTS	MANUAL ON OCCUPANCY SENSOR TIME SCHEDULE OFF
F	SPARE	
G	SPARE	
H	SPARE	

NOTE: PROVIDE 4 HOUR MINIMUM OWNER TRAINING FOR SETUP AND OPERATION OF LIGHTING CONTROL PANEL. EXACT BUILDING TIME SCHEDULES TO BE DETERMINED BY OWNER.

RELAY SWITCH SCHEDULE

SWITCH DESIGNATION	BUTTON #	RELAY'S CONTROLLED	NAMEPLATE	DESCRIPTION
S _v	1	35	A-LOWL	ATRIUM LOW LEVEL STEP, POLES, BOLLARDS
S _v	2	34	A-WALL	ATRIUM WALL MOUNTED
S _v	3	38	A-2BA	ATRIUM SECOND FLOOR BALCONIES
S _v	4	37	A-SUS	ATRIUM SUSPENDED
S _v	5	36	A-ART	ATRIUM ART DISPLAY
S _v	6	34,35,36,37,38	A-MSTR	ATRIUM MASTER



NOTE: PROVIDE MINIMUM 4 HOURS ON SITE PROGRAMMING AND OWNER INSTRUCTION FOR LIGHTING CONTROL SYSTEM. PROVIDE ALL ACCESSORIES AND ADDITIONAL POWER SUPPLIES FOR OCCUPANCY SENSORS AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM. TIME SCHEDULES DETERMINED BY OWNER.

9 LIGHTING CONTROL SYSTEM RISER DIAGRAM
SCALE: NONE

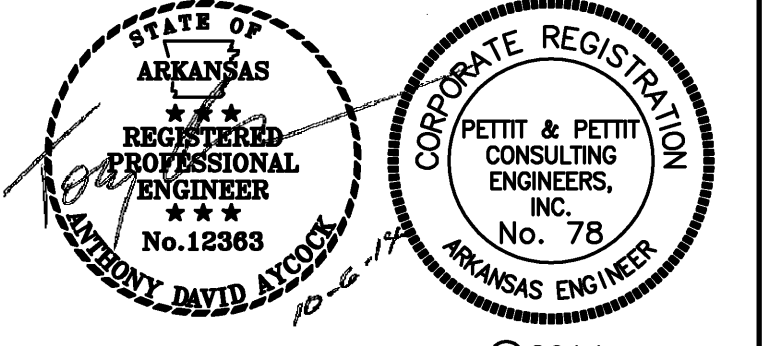
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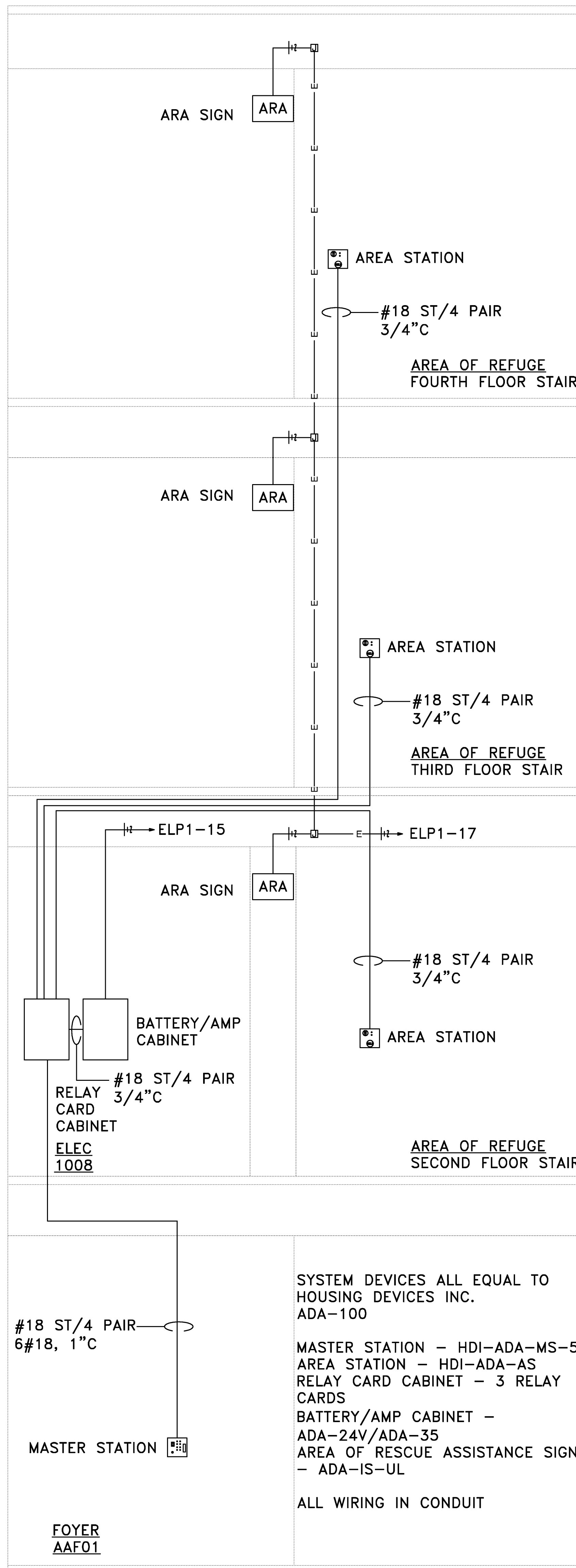
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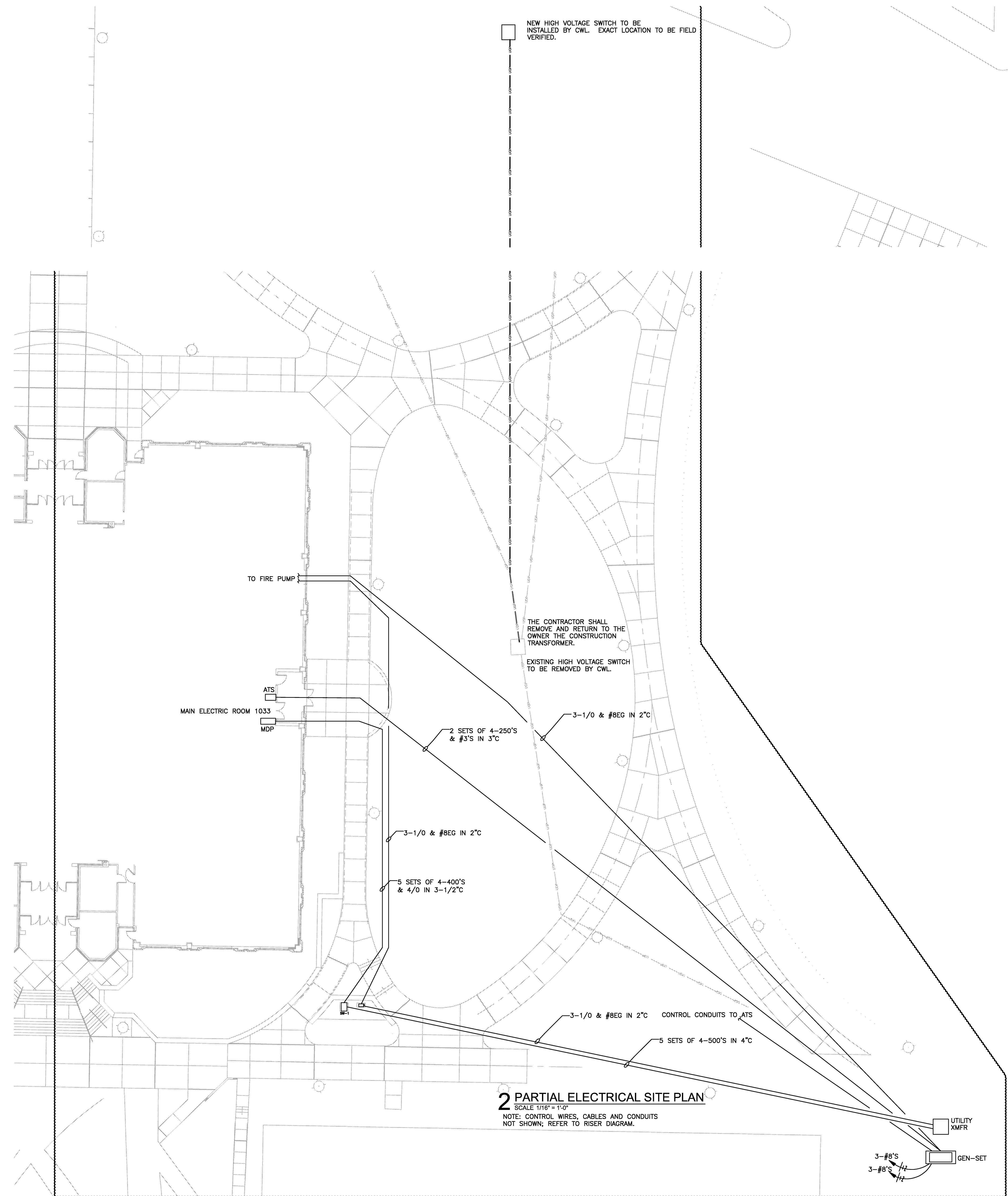
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013

Title: 1/4 SCALE ELECTRICAL ROOMS AND DETAILS
Sheet Number: **E2.4**



PROVIDE ALL CABLES AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION AND OPERATION OF SYSTEM. PROVIDE MINIMUM 1 HOUR OF OPERATION TRAINING OF SYSTEM FOR OWNER.

1 AREA OF RESCUE ASSISTANCE RISER DIAGRAM
SCALE NONE



2 PARTIAL ELECTRICAL SITE PLAN
SCALE 1/16" = 1'-0"

NOTE: CONTROL WIRES, CABLES AND CONDUITS NOT SHOWN; REFER TO RISER DIAGRAM.

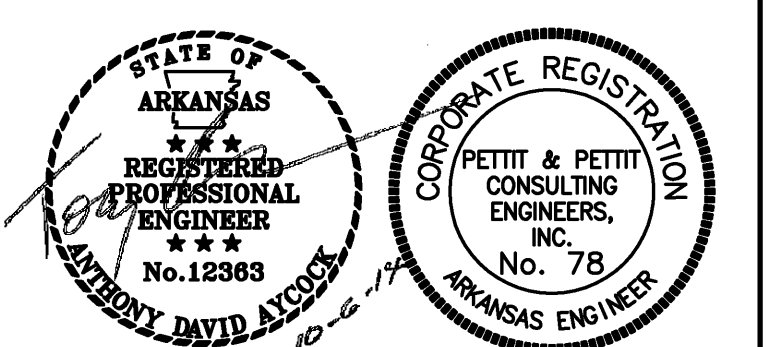
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: ELECTRICAL DETAILS
Sheet Number: **E2.5**

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
—SP—	FIRE SPRINKLER PIPING
—DSP—	DRY PIPE FIRE SPRINKLER PIPING
—F—	FIRE PROTECTION WATER SUPPLY
●	BRASS SPRINKLER HEAD (UPRIGHT OR PENDANT AS REQ'D)
○	RECESSED PENDANT SPRINKLER HEAD IN CEILING
⊙	EXTRA LARGE ORIFICE TYPE SPRINKLER HEAD
●	DRY PENDENT ON DROP SPRINKLER HEAD
⊗	CONCEALED TYPE SPRINKLER HEAD
▶	HORIZONTAL SIDEWALL SPRINKLER HEAD
✕	EXISTING SPRINKLER HEAD
⊠	SUPERVISED INDICATING TYPE VALVE (O.S.&Y)
⊠	FLOW SWITCH
▨	RECESSED FIRE HOSE CABINET
▨	RECESSED FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER
F.H.C.	FIRE HOSE CABINET
O.S.&Y.	OUTSIDE SCREW & YOKE
F.E.C.	FIRE EXTINGUISHER CABINET
⊕	FIRE HYDRANT
⊕	FIRE DEPARTMENT CONNECTION

FIRE PROTECTION NOTES

A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AS A WET PIPE SPRINKLER SYSTEM. BACKFLOW PROTECTION SHALL BE PROVIDED AS REQUIRED BY ARKANSAS DEPARTMENT OF HEALTH.

- FIRE PROTECTION GENERAL NOTES**
- THE ENTIRE BUILDING SHALL BE COMPLETELY SPRINKLED WITH A WET PIPE SYSTEM. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. AND COORDINATE SPRINKLER HEAD LOCATION AS REQUIRED. THESE SYSTEMS SHALL BE HYDRAULICALLY DESIGNED TO MEET NFPA 13, STATE AND LOCAL CODES. IN FINISHED AREAS LOCATE SPRINKLER HEADS SYMMETRICALLY IN ROOMS AND SPACES AS FAR AS PRACTICAL.
 - PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE).
 - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHER CABINETS, ETC.
 - COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEM.
 - ALL VALVES MUST BE ACCESSIBLE, IF INSTALLED ABOVE A FIXED CEILING, ACCESS DOORS SHALL BE INSTALLED.
 - ALL SPRINKLER BRANCHES DOWNSTREAM OF AN ALARM SHALL HAVE A 1" MINIMUM TEST DRAIN LINE WITH EASILY ACCESSIBLE VALVE. DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THRU OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, ETC.
 - ALL SPRINKLER PIPING SHALL SLOPE TO LOW POINTS WITH VALVES FOR DRAINING.
 - ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, EXCEPT IN SPECIAL AREAS.
 - PIPE ROUTING IS GENERAL AND IS SHOWN FOR COORDINATION WITH OTHER TRADES. SPRINKLER HEAD LAYOUT IS TO SHOW GENERAL HEAD LAYOUT AND SHALL NOT BE USED TO DETERMINE THE QUANTITY OF HEADS REQUIRED. THE QUANTITY OF HEADS REQUIRED SHALL BE BASED ON THE REQUIREMENTS OF NFPA 13.
 - PROVIDE SYSTEM TO NFPA 13 COVERAGE AND OCCUPANCY REQUIREMENTS
 - WATER SUPPLY - FIELD VERIFY EXISTING CONDITIONS
 - INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
 - PROVIDE FIRE DEPARTMENT CONNECTION AS INDICATED.
 - ALL PIPING TO BE SCHEDULE 40 STEEL.
 - ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED - CLEAN, PRIME, AND PAINT WITH (2) COATS EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT) FIRE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR
 - ALL PIPING SHALL DRAIN TO VALVES AT LOW POINTS SO ENTIRE SYSTEM CAN BE EASILY DRAINED. DRAIN VALVE LOCATIONS MUST BE MARKED AND HAVE EASY ACCESS.
 - THIS FACILITY IS LOCATED AT JONESBORO, ARKANSAS IN CRAIGHEAD COUNTY, AND THE PIPING RESTRAINT SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE MOST CURRENT ARKANSAS FIRE PREVENTION CODE, FOR THE SPECIFIC SEISMIC DESIGN CATEGORY OF THE PROJECT. THE SEISMIC DESIGN CATEGORY FOR THE PROJECT IS "D". FOR SEISMIC DESIGN CATEGORIES D, E, OR F, PROVIDE FLEXIBLE SPRINKLER CONNECTIONS TO ALL SPRINKLER HEADS IN FINISHED CEILINGS. THESE SHALL BE THE STAINLESS STEEL BRAID TYPE OVER STAINLESS STEEL CORRUGATED HOSE EQUAL TO FLEXHEAD INDUSTRIES' (NO SUBSTITUTIONS). FURNISH ALL MOUNTING HARDWARE AS REQUIRED. WHEN HEADS OCCUR IN CEILING TILE THE HEADS SHALL BE IN CENTER OF TILE, IN GYP BOARD CEILINGS THE HEADS SHALL BE SYMMETRICALLY LOCATED IN ROOMS AND SPACES.

AUTO FIRE SPRINKLER LEGEND: (THIS LEGEND FOR ALL SHEETS)

DOUBLE CROSSHATCHING DENOTES BOUNDARIES OF AREAS THAT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM, BUT WITH NOTED EXCEPTION, AND OR, ADDITION. - SEE KEYED NOTES

SEE LATEST FIRE PROTECTION SHOP DRAWINGS FROM FIRE PROTECTION CONTRACTOR FOR ACTUAL SPRINKLER HEAD LOCATIONS AND "WATER CURTAIN" SPRINKLER HEAD LOCATIONS AROUND ATRIUM- ALL LEVELS.

- FIRE SPRINKLER DESIGN NOTES**
- ESTIMATED AREA/DENSITY DEMANDS PLUS HOSE WATER
- LIGHT HAZARD - .10 GPM x 1500 SQ. FT. x OVERAGE + 100 GPM HOSE WATER = 272.5 GPM.
- ORDINARY HAZARD (GROUP 1) - 0.15 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 509.0 GPM.
- ORDINARY HAZARD (GROUP 2) - 0.25 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 595.0 GPM.
- NOTE: REDUCTION AREA ADJUSTMENTS FOR QUICK RESPONSE SPRINKLER HEADS AS NOTED IN NFPA 13 WILL BE ALLOWED.
- THE CONTRACTOR MUST VERIFY AND COORDINATE EXACT DESIGN REQUIREMENTS.
- FIRE FLOW TEST - (MUST BE VERIFIED)
- STATIC = 68 PSI
RESIDUAL = 58 PSI
FLOW RATE = 1198 GPM

FIRE PROTECTION NOTES

A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AS A WET SPRINKLER SYSTEM. BACKFLOW PROTECTION SHALL BE PROVIDED AS REQUIRED BY ARKANSAS DEPARTMENT OF HEALTH.

- FIRE PROTECTION GENERAL NOTES**
- THE BUILDING SHALL BE COMPLETELY SPRINKLED. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS ETC. AND COORDINATE SPRINKLER HEAD LOCATION AS REQUIRED. THESE SYSTEMS SHALL BE HYDRAULICALLY DESIGNED TO MEET NFPA 13, STATE, AND LOCAL CODES. IN FINISHED AREAS LOCATE SPRINKLER HEADS IN CENTER OF LAY-IN TILE CEILING AND LOCATE SYMMETRICALLY IN ROOMS AND SPACES AS FAR AS PRACTICAL.
 - PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE).
 - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHER CABINETS, ETC.
 - COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEM.
 - ALL VALVES MUST BE ACCESSIBLE, IF INSTALLED ABOVE A FIXED CEILING, ACCESS DOORS SHALL BE INSTALLED.
 - ALL SPRINKLER BRANCHES DOWNSTREAM OF AN ALARM SHALL HAVE A 1" MINIMUM TEST DRAIN LINE WITH EASILY ACCESSIBLE VALVE. DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THRU OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, ETC.
 - ALL SPRINKLER PIPING SHALL SLOPE TO LOW POINTS WITH VALVES FOR DRAINING.
 - ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, EXCEPT IN SPECIAL AREAS.
 - SPRINKLER HEADS SHALL BE LOCATED 15' (OR LESS) ON CENTER - EXTENDED COVERAGE HEADS NOT ACCEPTABLE.
 - PROVIDE SYSTEM TO NFPA 13 COVERAGE AND OCCUPANCY REQUIREMENTS
 - WATER SUPPLY - FIELD VERIFY EXISTING CONDITIONS (SEE FLOW TEST THIS SHEET)
 - INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
 - PROVIDE FIRE DEPARTMENT CONNECTION AS INDICATED.
 - ALL PIPING TO BE SCHEDULE 40 STEEL.
 - ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED - CLEAN, PRIME, AND PAINT WITH (2) COATS EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT) FIRE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR
 - ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL HAVE FLEXIBLE DROPS TO COMPLY WITH SEISMIC DESIGN CATEGORY "D"
 - ALL SPRINKLER HEADS MUST BE CENTERED IN CEILING TILES OF LAY-IN CEILINGS.
 - SEE ARCHITECTURAL DRAWING FOR EXACT CEILING LAYOUTS AND COORDINATE-SEE ELECTRICAL DRAWINGS FOR EXACT LIGHTING LOCATIONS. SEE HVAC DRAWINGS FOR EXACT HVAC GRILL LOCATIONS
 - THIS FACILITY IS LOCATED AT JONESBORO, ARKANSAS IN CRAIGHEAD COUNTY, AND THE PIPING RESTRAINT SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE MOST CURRENT ARKANSAS FIRE PREVENTION CODE, FOR THE SPECIFIC SEISMIC DESIGN CATEGORY OF THE PROJECT. THE SEISMIC DESIGN CATEGORY FOR THE PROJECT IS "D". FOR SEISMIC DESIGN CATEGORIES D, E, OR F, PROVIDE FLEXIBLE SPRINKLER CONNECTIONS TO ALL SPRINKLER HEADS IN FINISHED CEILINGS. THESE SHALL BE THE STAINLESS STEEL BRAID TYPE OVER STAINLESS STEEL CORRUGATED HOSE EQUAL TO FLEXHEAD INDUSTRIES' (NO SUBSTITUTIONS). FURNISH ALL MOUNTING HARDWARE AS REQUIRED. WHEN HEADS OCCUR IN CEILING TILE THE HEADS SHALL BE IN CENTER OF TILE, IN GYP BOARD CEILINGS THE HEADS SHALL BE SYMMETRICALLY LOCATED IN ROOMS AND SPACES.

September 16, 2014
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Fire Protection Notes
Legends and Schedules
Sheet Number: **FP1.0**

VERIFY SCALE
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1 1st FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

FIRE PROTECTION KEYED NOTES

- 1 THE ENTIRE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. SINGLE CROSS-SWITCHING DENOTES BOUNDARIES OF STANDARD WET SYSTEM. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
- 2 PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE)
- 3 FIRE SPRINKLER HEADS AROUND ELECTRICAL PANELS (SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS) SHALL HAVE DEFLECTOR SHIELDS TO AVOID DIRECT WATER SPRAY ON EQUIPMENT.
- 4 IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILING) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
- 5 THESE AREAS ARE ORDINARY HAZARD - GROUP 1 (OTHER AREAS ARE LIGHT HAZARD UNLESS OTHERWISE NOTED)
- 6 PROVIDE SPRINKLER HEADS AT TOP OF ELEVATOR SHAFT AND HEADS BELOW LOWEST POINT OF ELEVATOR CAR TRAVEL AND ELEVATOR MACHINE ROOMS. HEADS SHALL BE SPECIAL HIGH TEMPERATURE TYPE (300 F TEMP OR ABOVE RANGE) NOTE THAT 135 HEAT DETECTORS AND SMOKE DETECTORS THAT SHUT DOWN ELEVATOR ARE SHOWN ON ELECTRICAL DRAWINGS. PROVIDE SEPARATE LEAK VALVES WITH FLOW AND TAMPER SWITCHES FOR THESE HEADS - WIRE BACK TO FIRE ALARM PANEL FOR ELEVATOR SHUT DOWN.
- 7 THESE AREAS REQUIRE SPRINKLER HEADS AT TOP OF STAIR AND UNDER LOWEST STAIR LANDING PROVIDE PROTECTIVE WIRE CAGE ON SPRINKLER HEADS. (FIELD VERIFY AND COORDINATE AS PER CODE)
- 8 DATA ROOM - PROVIDE BRASS UPRIGHT SPRINKLER HEAD WITH WIRE CAGE - LOCATE AS HIGH AND OUT OF THE WAY AS POSSIBLE. DO NOT RUN UNNECESSARY SPRINKLER PIPING ABOVE DATA ROOMS - KEEPS HEADS CLOSE TO OUT SIDE WALLS AS POSSIBLE (ELECT ROOMS TO BE TREATED SIMILAR)
- 9 SLEEVE WALL AND CALK VOIDS, INSTALL ESCUTCHEONS BOT SIDE OF WALL
- 10 OSAY WITH FLOW AND TAMPER SWITCH TO SERVER SPRINKLER HEADS THIS FLOOR, LOCATE HIGH OVER HEAD (FIELD VERIFY EXACT LOCATIONS)
- 11 NOTE THAT THE RECESSED HEADS IN CORRIDOR MUST BE MOVED TO SIDE TO ALLOW 6"-0" (MIN) CLEAR BETWEEN RECESSED HEAD AND WINDOW WASHER HEADS - FIELD COORDINATE EXACT HEAD LAYOUT THIS AREA.
- 12 INSTALL WINDOW WASHER TYPE SPRINKLER HEADS ALL AROUND THE ATRIUM AT EACH FLOOR. ON OCCUPIED SIDE OF ATRIUM, PLACE HEADS 6'-0" O.C. (MIN) AND 4" TO 12" OFF GLASS TO COMPLETELY WASH ALL WINDOWS IN ATRIUM AT ALL FLOORS. WHERE HEADS CAN NOT BE SPACED AT LEAST 6FT APART USE CLEAR PLEXI GLASS PANELS ATTACHED TO THE CEILING. THESE SPECIAL WINDOW WASHER HEADS ARE REQUIRED BY THE LOCAL FIRE MARSHAL. PLEASE VERIFY AND FIELD COORDINATE EXACT HEAD LAYOUT. NOTE THAT NO HORIZONTAL MULLIONS CAN OCCUR IN THE CLASS PANELS. USE TYPED "W" OR EQUAL HEADS. IN CORRIDOR ON WEST SIDE OF ATRIUM THE STANDARD RECESSED HEADS IN THE CEILING MUST BE LOCATED 6"-0" MIN FROM WINDOW WASHER HEADS - CAREFULLY COORDINATE THE LAYOUT OF THESE HEADS AND VERIFY WITH ARCHITECT.

SEE LATEST FIRE PROTECTION SHOP DRAWINGS FROM FIRE PROTECTION CONTRACTOR FOR ACTUAL SPRINKLER HEAD LOCATIONS AROUND ATRIUM - ALL LEVELS.

WINDOW WASHER SPRINKLER HEADS 6'-0" ON CENTER AROUND ATRIUM (TYPICAL ALL FLOORS) VERIFY EXACT LOCATION AND SPRINKLER HEAD LOCATIONS WITH THE HVAC DUCT CONTRACTOR. THERE ARE MANY LARGE DUCTS ABOVE THE CEILING WHERE SPRINKLER PIPING MUST ROUTE AROUND, OVER OR UNDER. THIS IS NOT SHOWN SPECIFICALLY ON THESE DRAWINGS. THIS REQUIRES COORDINATION.

KEEP WINDOW WASHER HEADS 6'-0" MIN FROM RECESSED HEADS

NOTE: THE FIRE SPRINKLER CONTRACTOR MUST CAREFULLY COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH THE HVAC DUCT CONTRACTOR. THERE ARE MANY LARGE DUCTS ABOVE THE CEILING WHERE SPRINKLER PIPING MUST ROUTE AROUND, OVER OR UNDER. THIS IS NOT SHOWN SPECIFICALLY ON THESE DRAWINGS. THIS REQUIRES COORDINATION.

SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES

April 22, 2014
September 16, 2014

PROJECT: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 1st Floor - Fire Protection Plan
Sheet Number: **FP1.1**

PROGRESS PRINT - THRU ASI-23 / PR28
SEPTEMBER 16, 2014

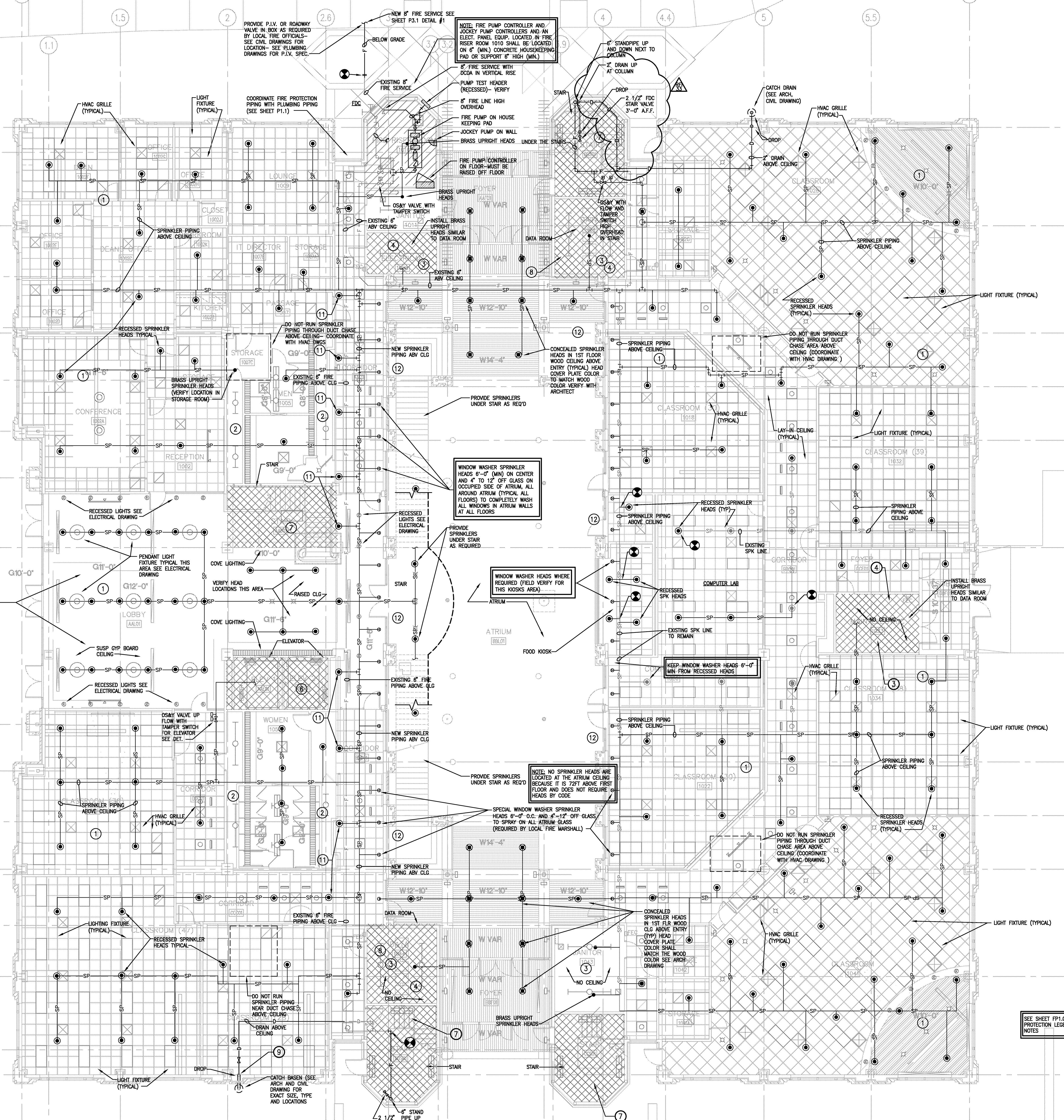
201 E. Markham St. 150
Little Rock, AR 72201
501.375.0378 T
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Arkansas State University
Arkansas State University
Arkansas State University



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CAHOON STEILING STUDIO
915 Southwest Drive
Jonesboro, AR 72401
870.933.6993 TEL.
870.933.6988 FAX.



NOTE: SEE ARCH. REFLECTED CEILING PLAN FOR SPECIAL COFFERED CEILING ABOVE THIS ENTRY AREA - CLG NOT SHOWN HERE. VERIFY EXACT SPRINKLER HEAD LOCATIONS WITHIN EACH COFFER

WINDOW WASHER SPRINKLER HEADS 6'-0" (MIN) ON CENTER AND 4" TO 12" OFF GLASS ON OCCUPIED SIDE OF ATRIUM. ALL AROUND ATRIUM (TYPICAL ALL FLOORS) TO COMPLETELY WASH ALL WINDOWS IN ATRIUM WALLS AT ALL FLOORS

WINDOW WASHER HEADS WHERE REQUIRED (FIELD VERIFY FOR THIS KIOSK AREA)

NOTE: NO SPRINKLER HEADS ARE LOCATED AT THE ATRIUM CEILING BECAUSE IT IS 7'2" ABOVE FIRST FLOOR AND DOES NOT REQUIRE HEADS BY CODE

KEEP WINDOW WASHER HEADS 6'-0" MIN FROM RECESSED HEADS

KEEP WINDOW WASHER HEADS 6'-0" MIN FROM RECESSED HEADS

NOTE: THE FIRE SPRINKLER CONTRACTOR MUST CAREFULLY COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH THE HVAC DUCT CONTRACTOR. THERE ARE MANY LARGE DUCTS ABOVE THE CEILING WHERE SPRINKLER PIPING MUST ROUTE AROUND, OVER OR UNDER. THIS IS NOT SHOWN SPECIFICALLY ON THESE DRAWINGS. THIS REQUIRES COORDINATION.

SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES

April 22, 2014
September 16, 2014

PROJECT: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
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- ### FIRE PROTECTION KEYED NOTES
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 - 4 IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
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SEE LATEST FIRE PROTECTION SHOP DRAWINGS FROM FIRE PROTECTION CONTRACTOR FOR ACTUAL SPRINKLER HEAD LOCATIONS AROUND ATRIUM-- ALL LEVELS.

NOTE: THE FIRE SPRINKLER CONTRACTOR MUST CAREFULLY COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH THE HVAC DUCT CONTRACTOR. THERE ARE MANY LARGE DUCTS ABOVE THE CEILING WHERE SPRINKLER PIPING MUST ROUTE AROUND, OVER OR UNDER. THIS IS NOT SHOWN SPECIFICALLY ON THESE DRAWINGS. THIS REQUIRES COORDINATION.

SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES

1 2nd FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

April 22, 2014
September 16, 2014

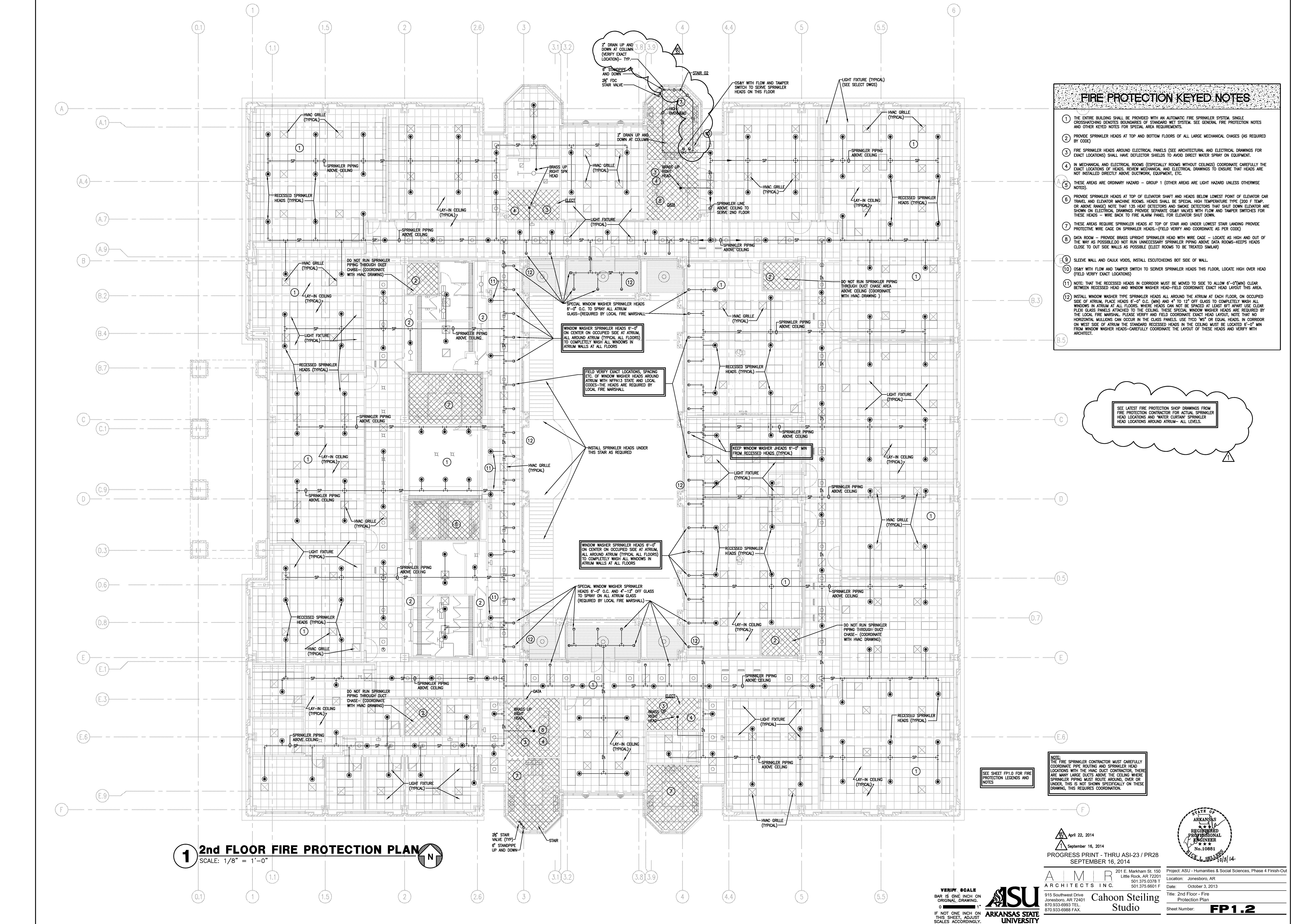
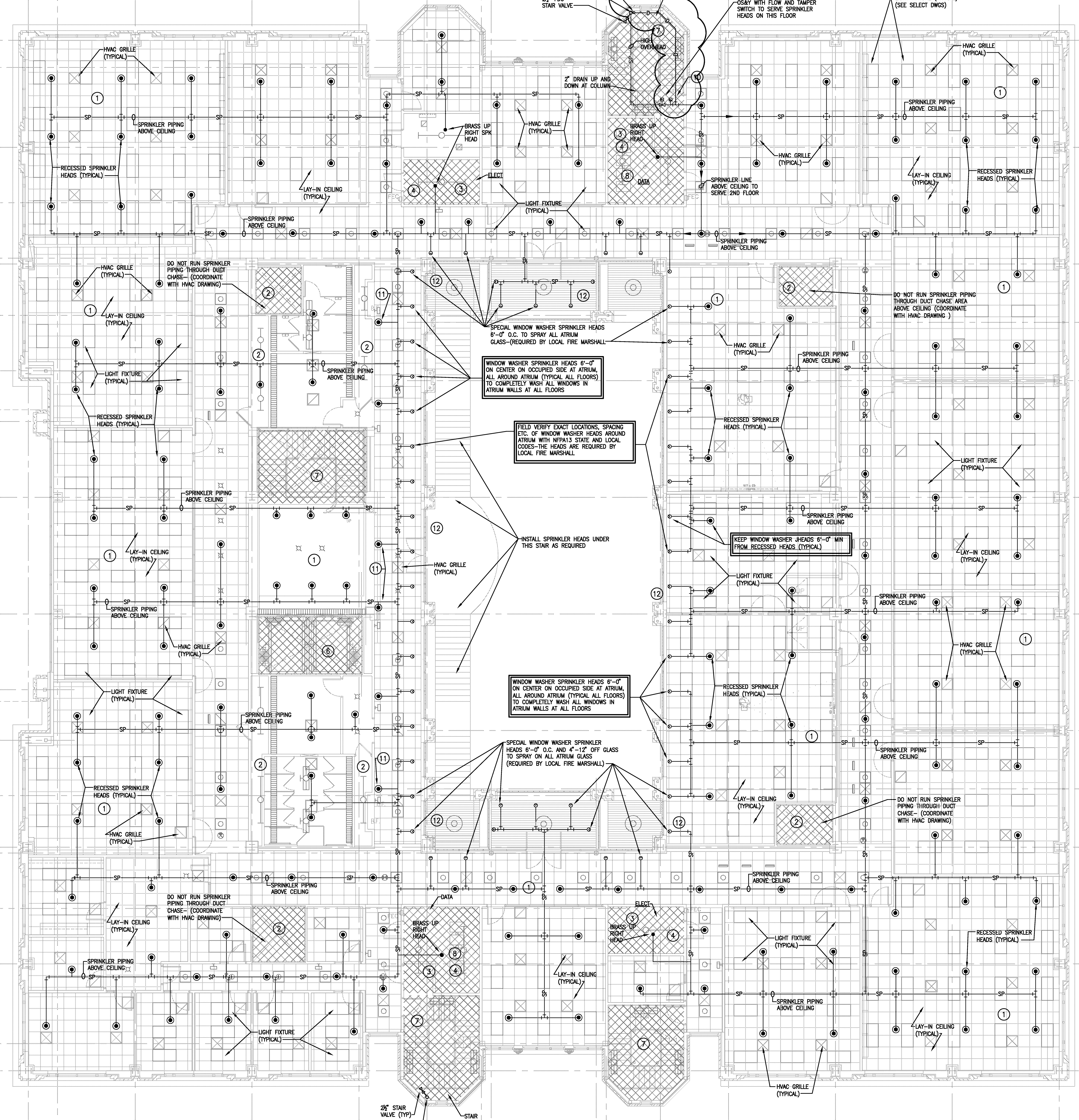
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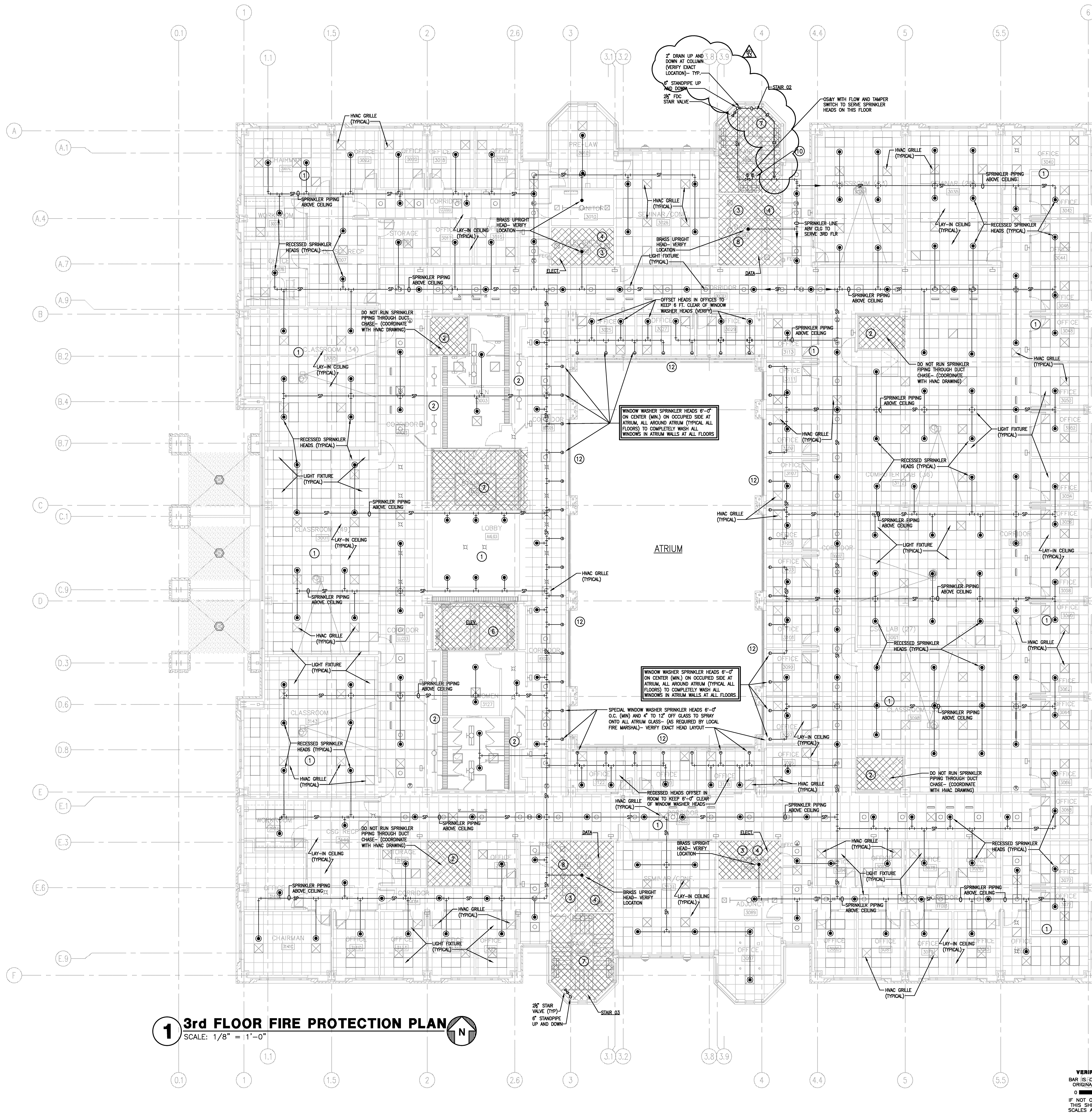


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 Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 915 Southwest Drive Jonesboro, AR 72401
 870.933-6993 TEL. 870.933-6988 FAX.

Cahoon Stelling Studio
 2nd Floor - Fire Protection Plan
 Sheet Number: **FP1.2**

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SEE LATEST FIRE PROTECTION SHOP DRAWINGS FROM FIRE PROTECTION CONTRACTOR FOR ACTUAL SPRINKLER HEAD LOCATIONS AND WATER CURTAIN SPRINKLER HEAD LOCATIONS AROUND ATRIUM - ALL LEVELS.

1 3rd FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES

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April 22, 2014
September 16, 2014
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SEPTEMBER 16, 2014

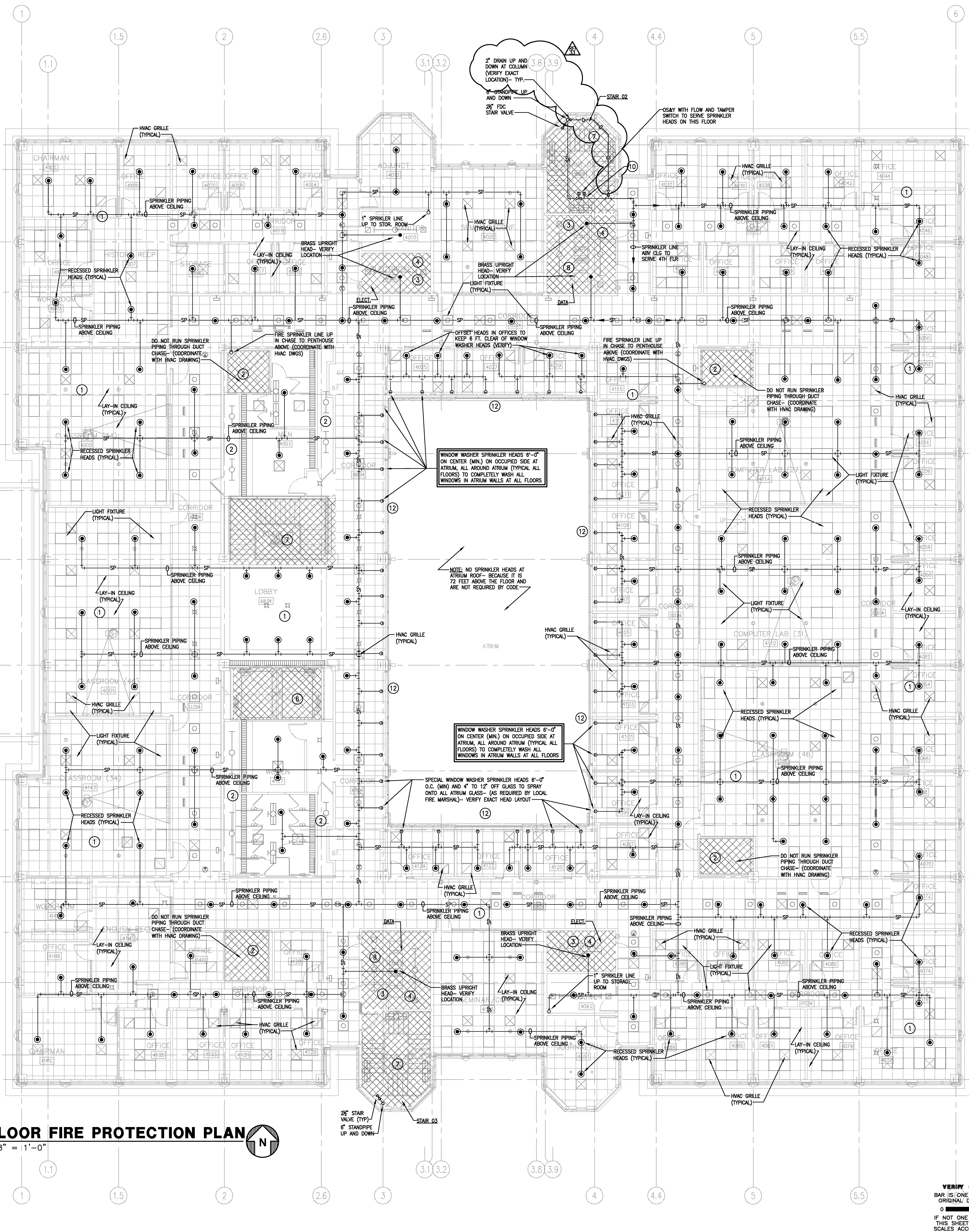


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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 3rd Floor - Fire Protection Plan
Sheet Number: **FP1.3**



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SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES

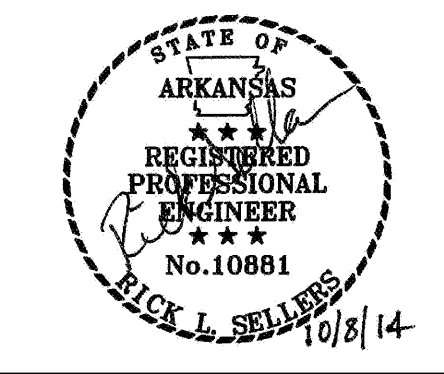
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1 4th FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

VERIFY SCALE
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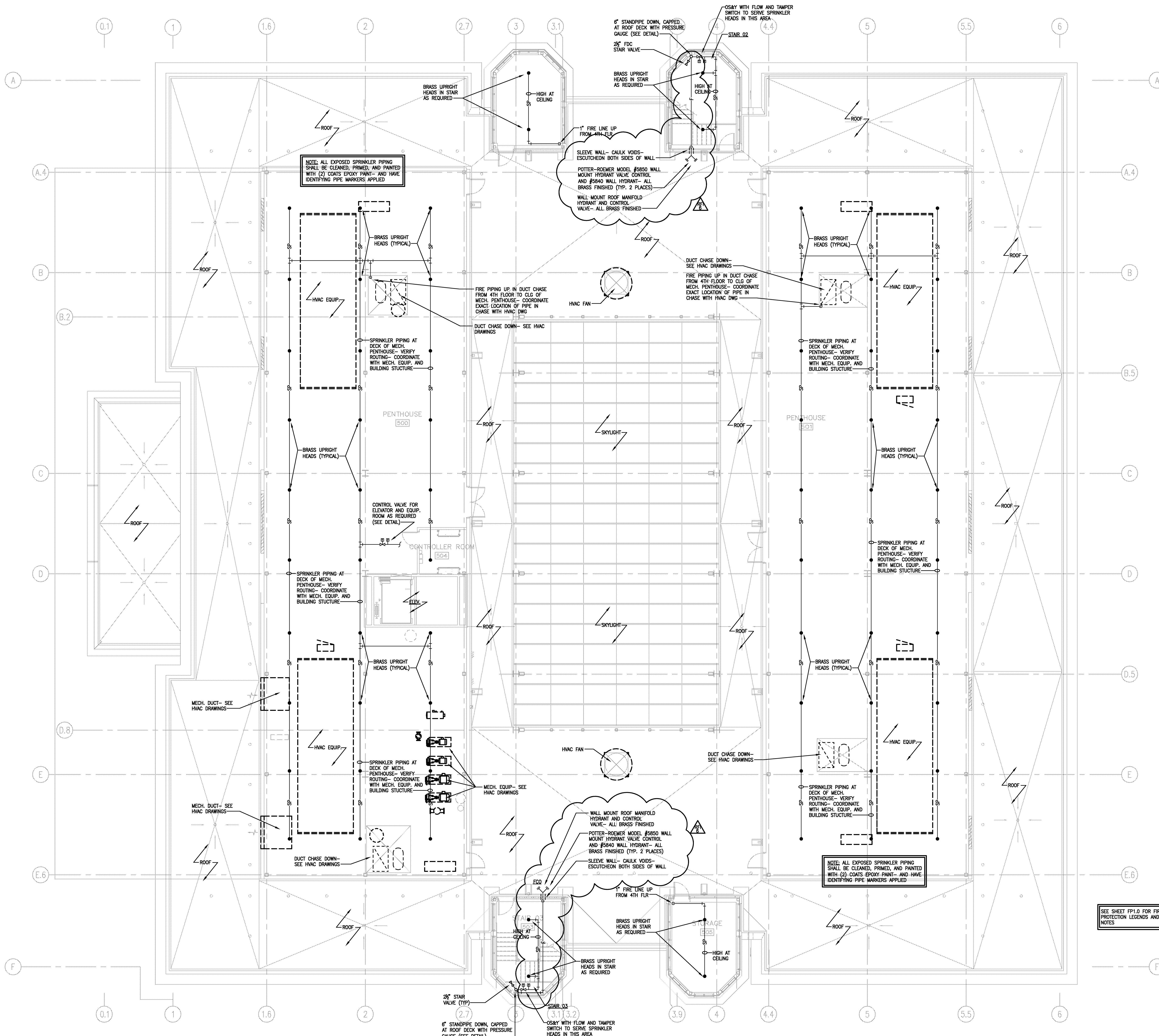


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April 22, 2014
September 16, 2014
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 4th Floor - Fire Protection Plan
Sheet Number: **FP1.4**



- ### FIRE PROTECTION KEYED NOTES
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1 PENTHOUSE FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET FP1.0 FOR FIRE PROTECTION LEGENDS AND NOTES.

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January 6, 2014
September 16, 2014

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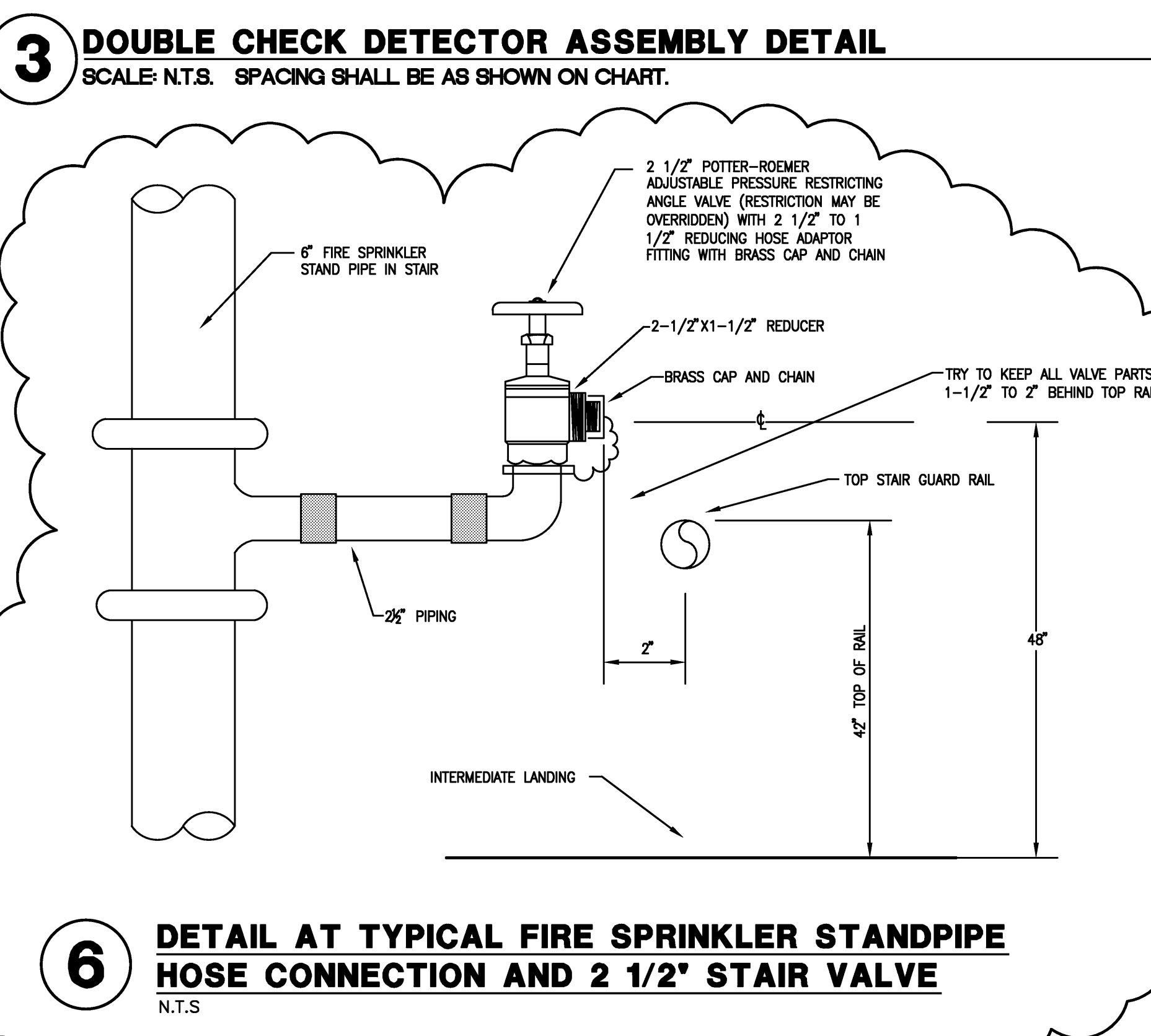
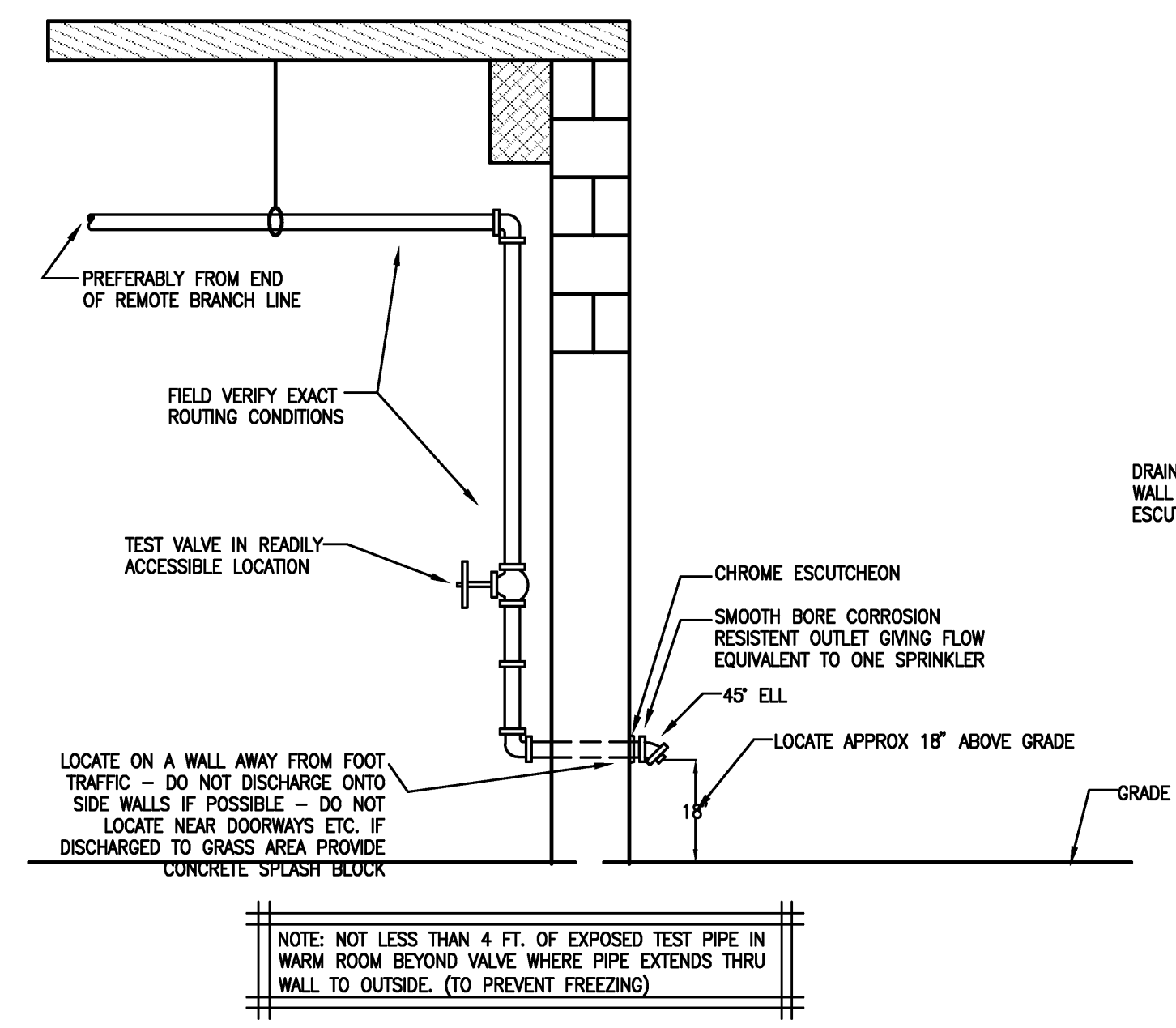
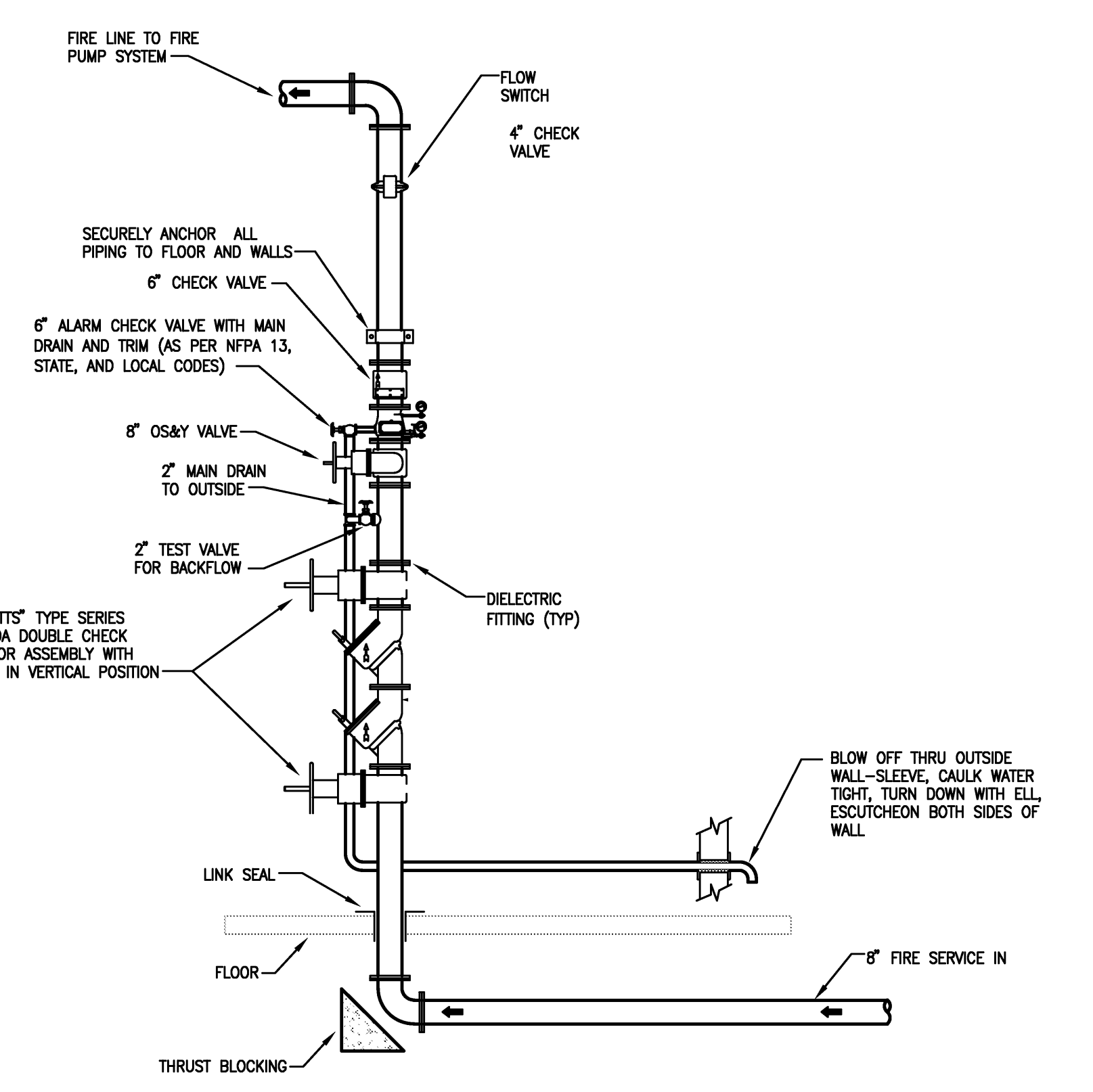
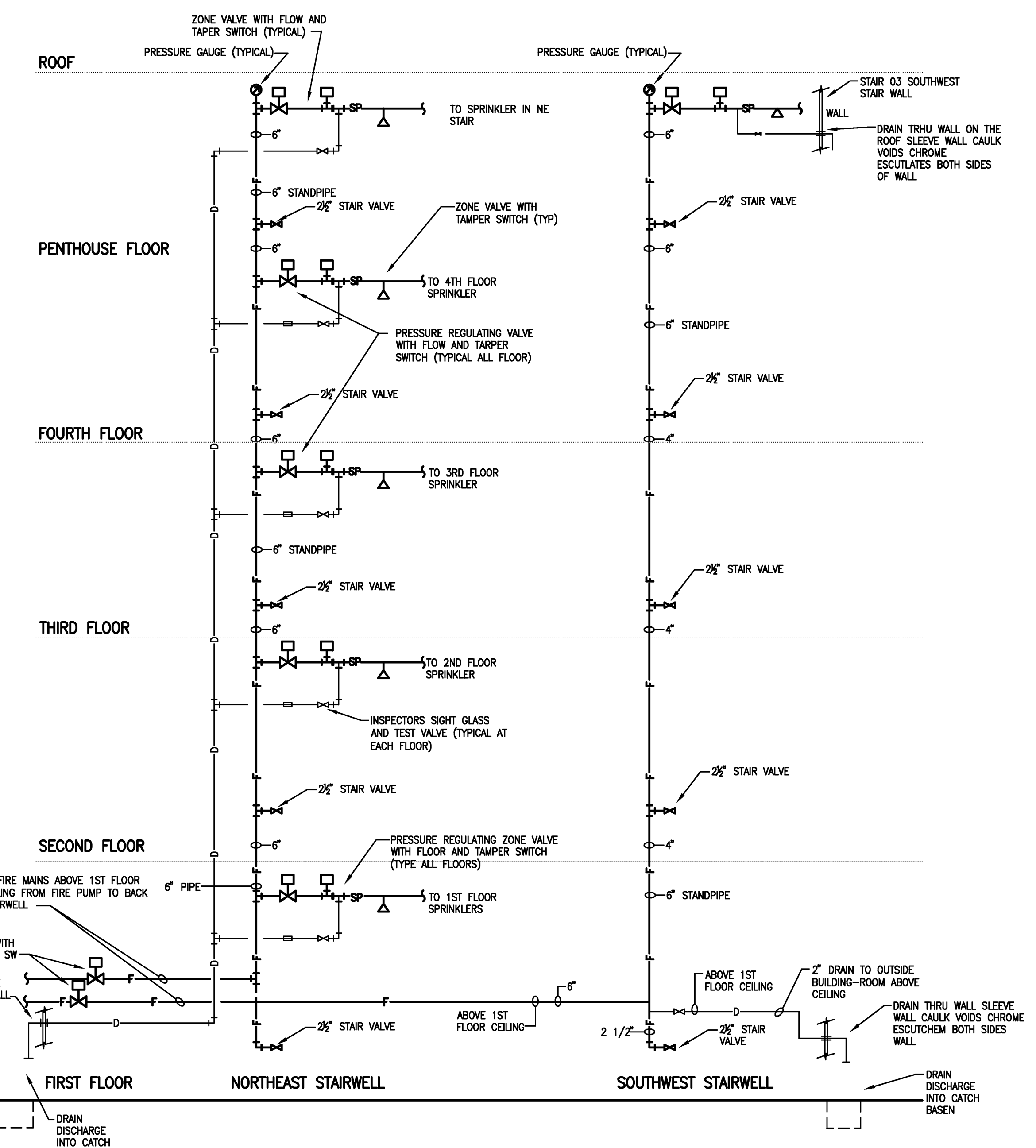
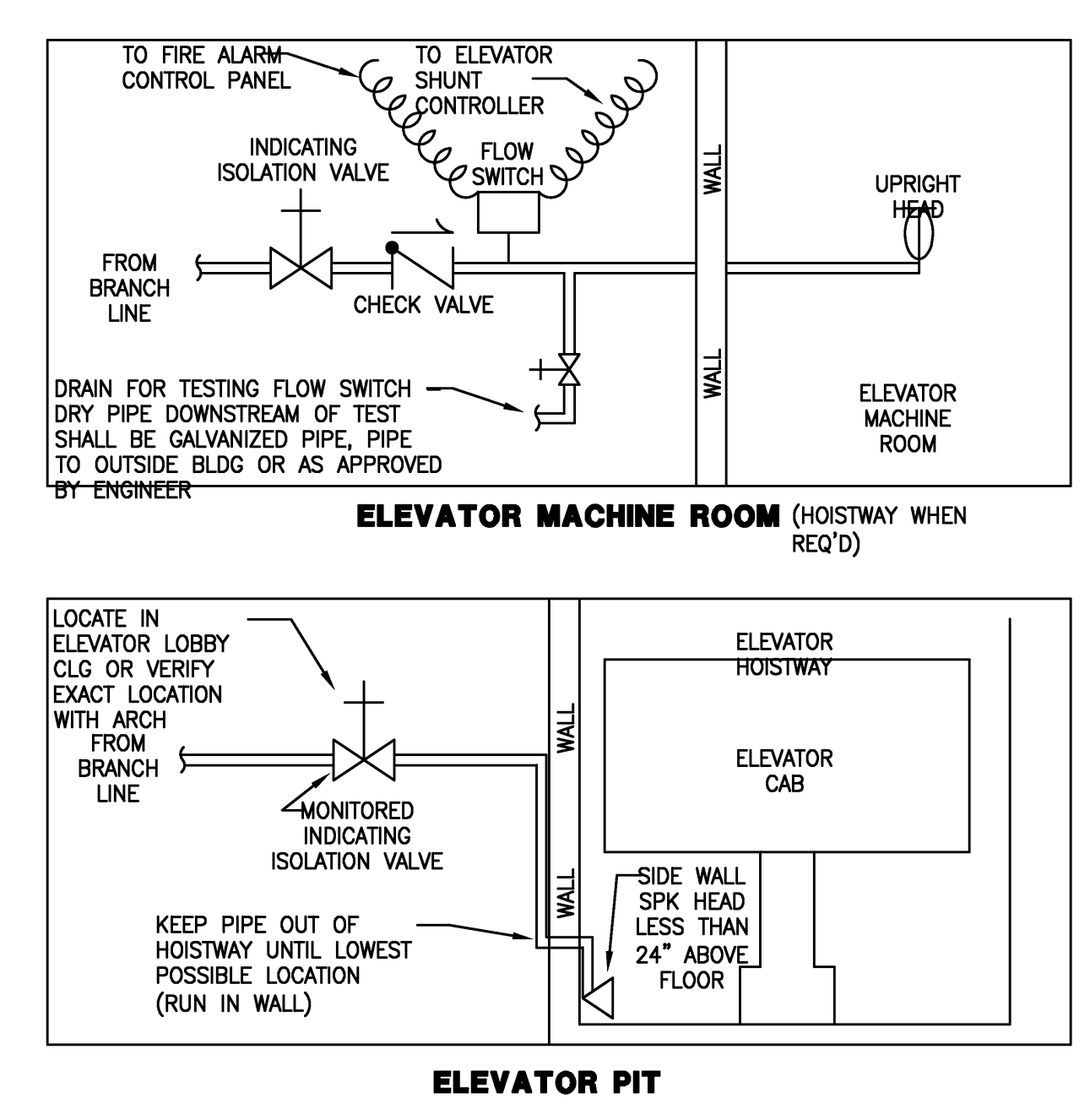
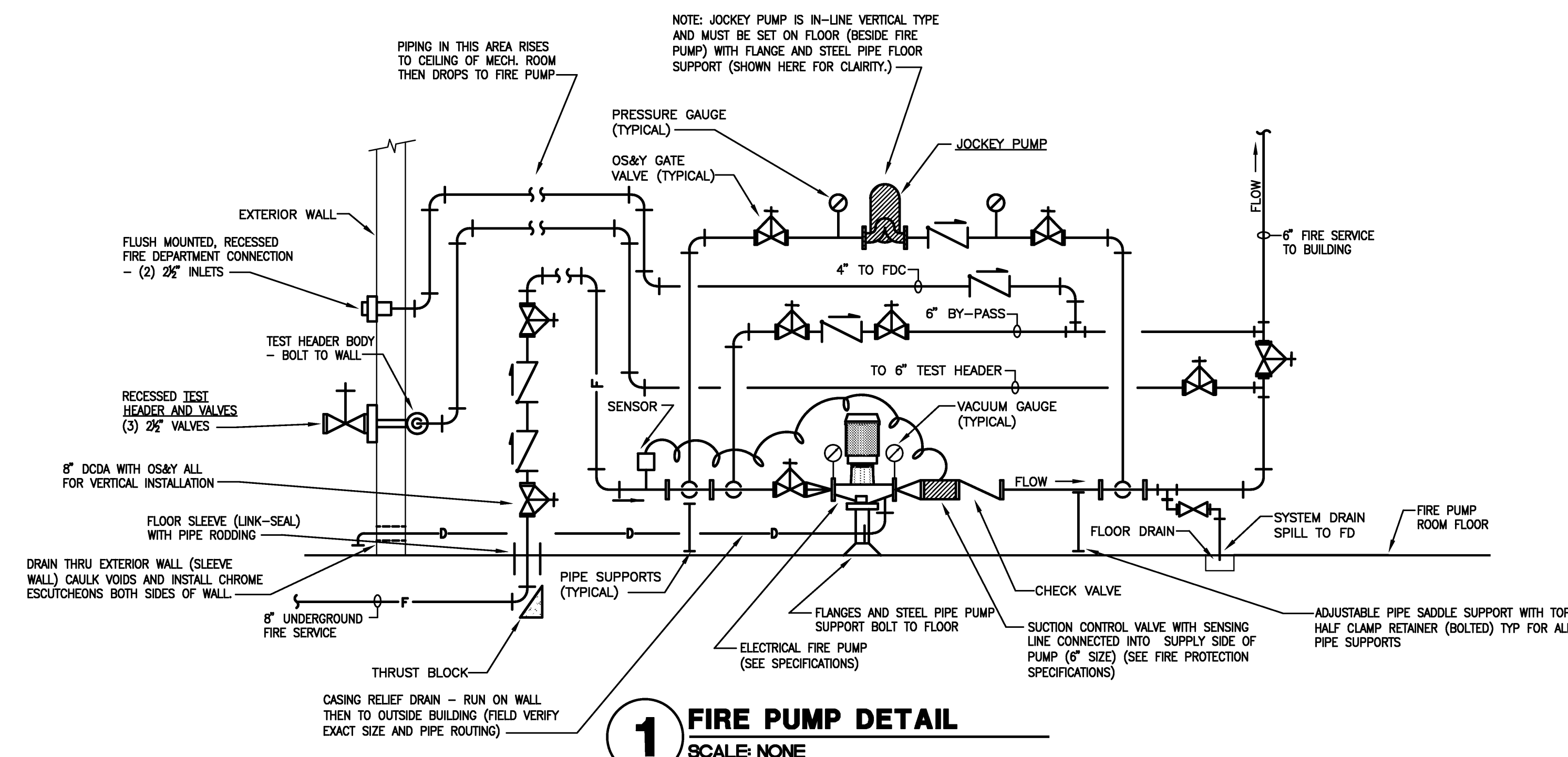
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501.375.6601 F

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013

Title: Penthouse - Fire Protection Plan
Sheet Number: **FP1.5**

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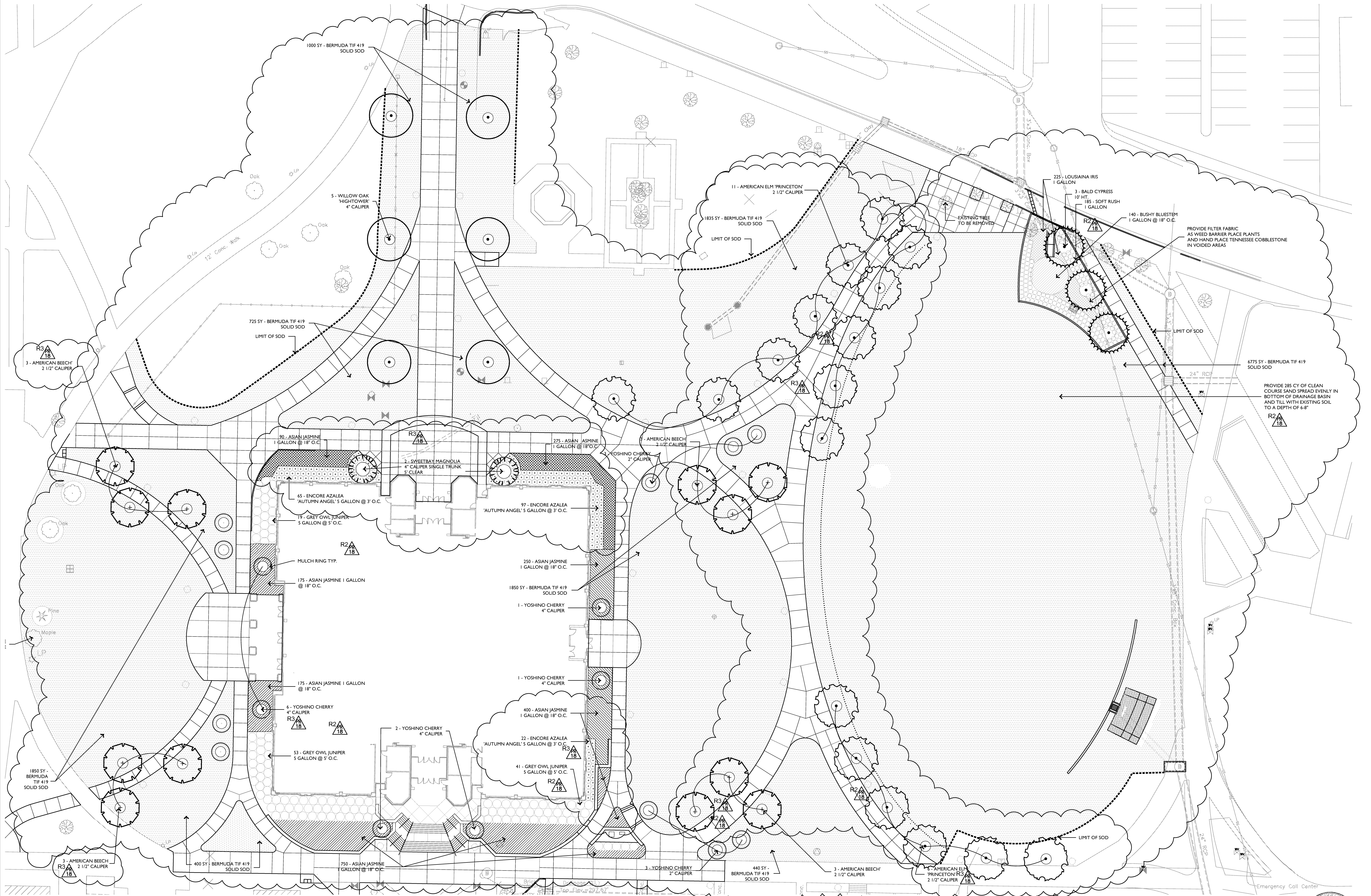
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Cahoon Steiling Studio



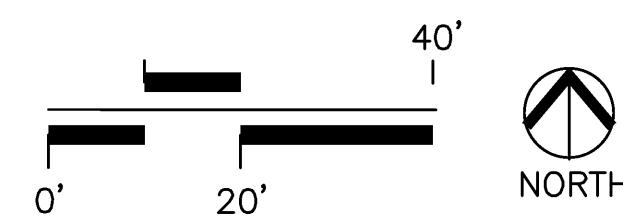
August 6, 2013
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: Fire Protection Details
 Sheet Number: **FP2.1**



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R3
18
PR18-R3 - SHEET REISSUED 09/9/14
 R2
18
PR18-R2 - SHEET REISSUED 08/22/14



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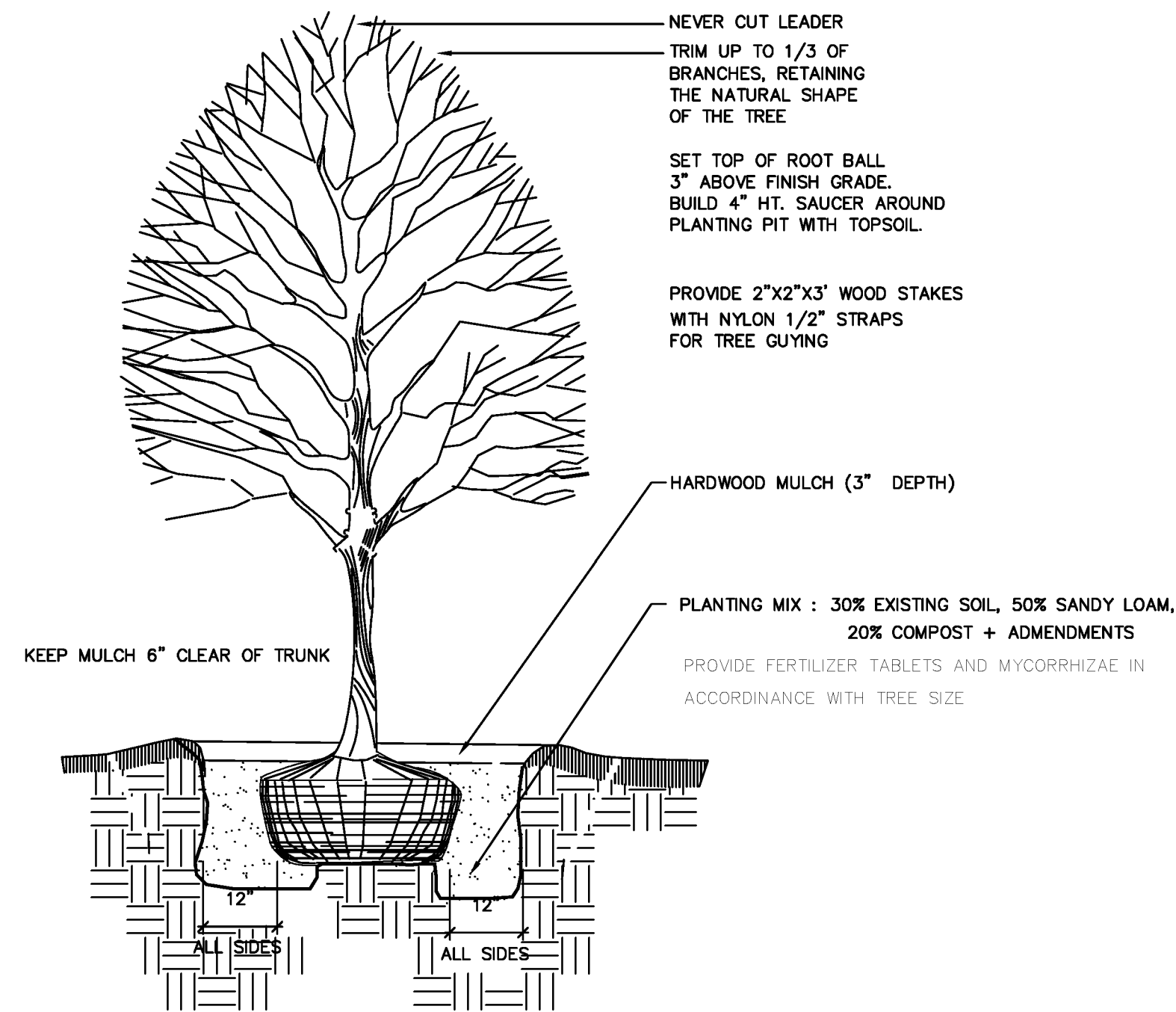


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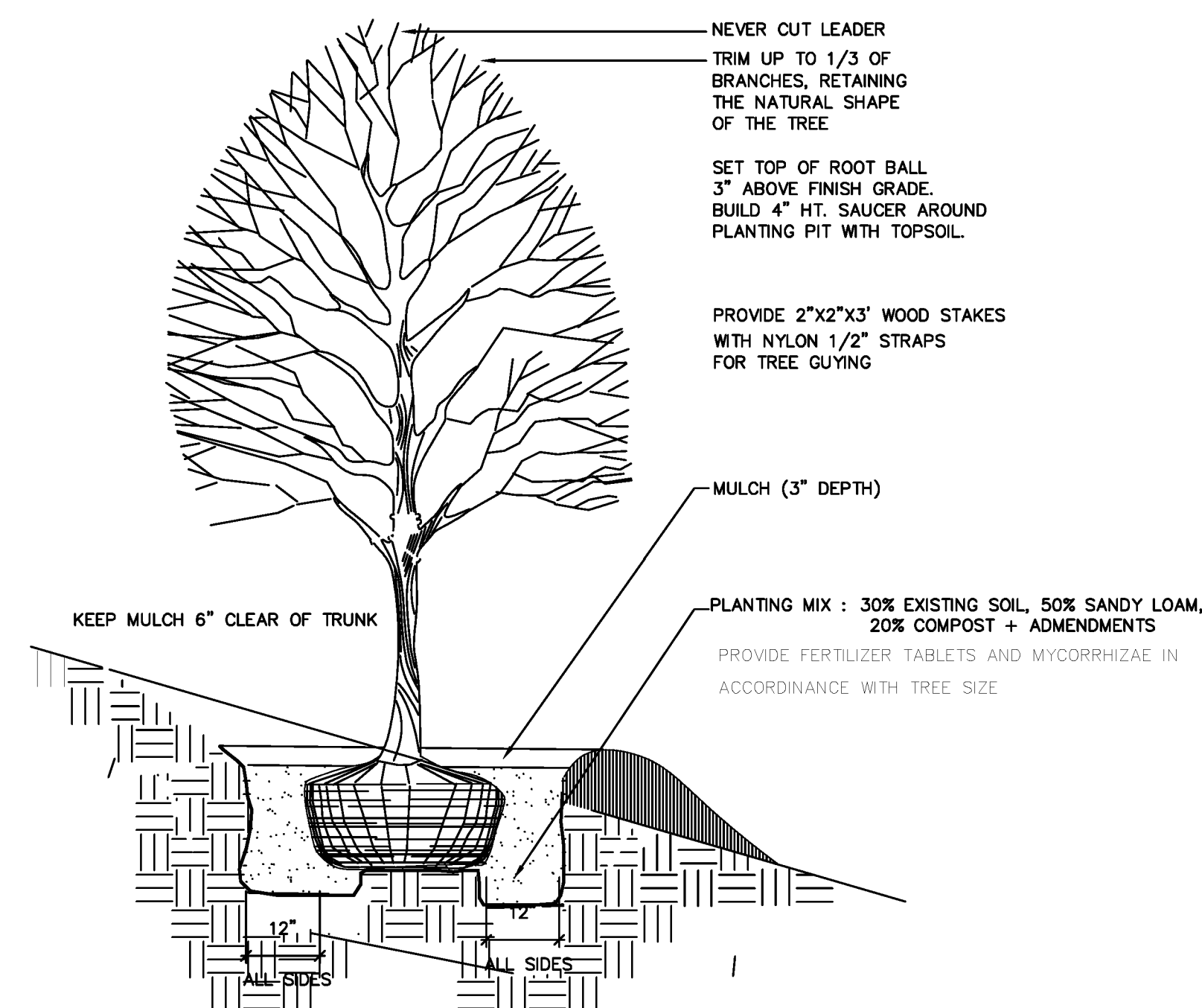
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: OCTOBER 3, 2014
 Modifies: PLANTING PLAN
 Sheet: **L1.0**



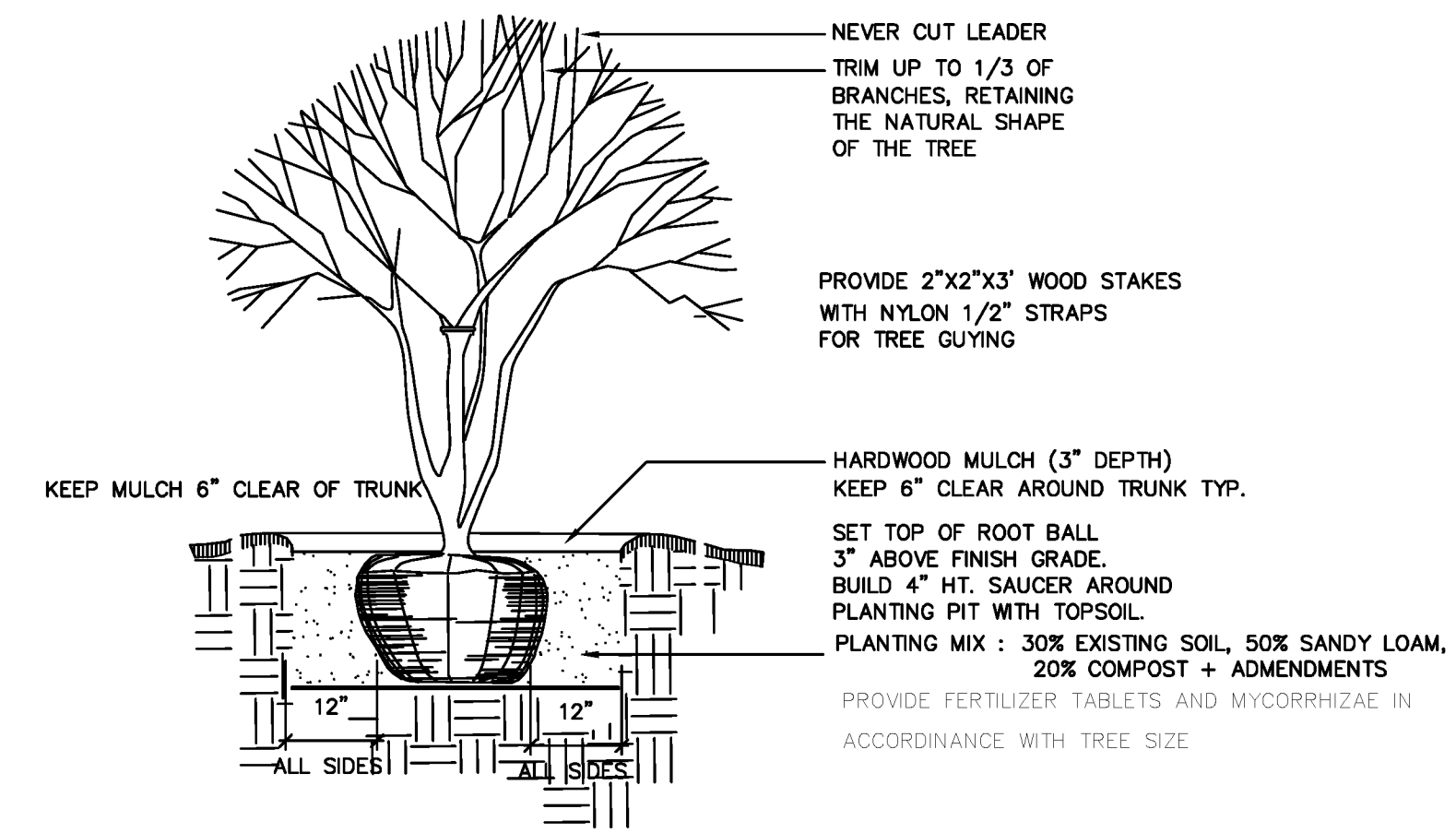
CANOPY TREE PLANTING

NTS



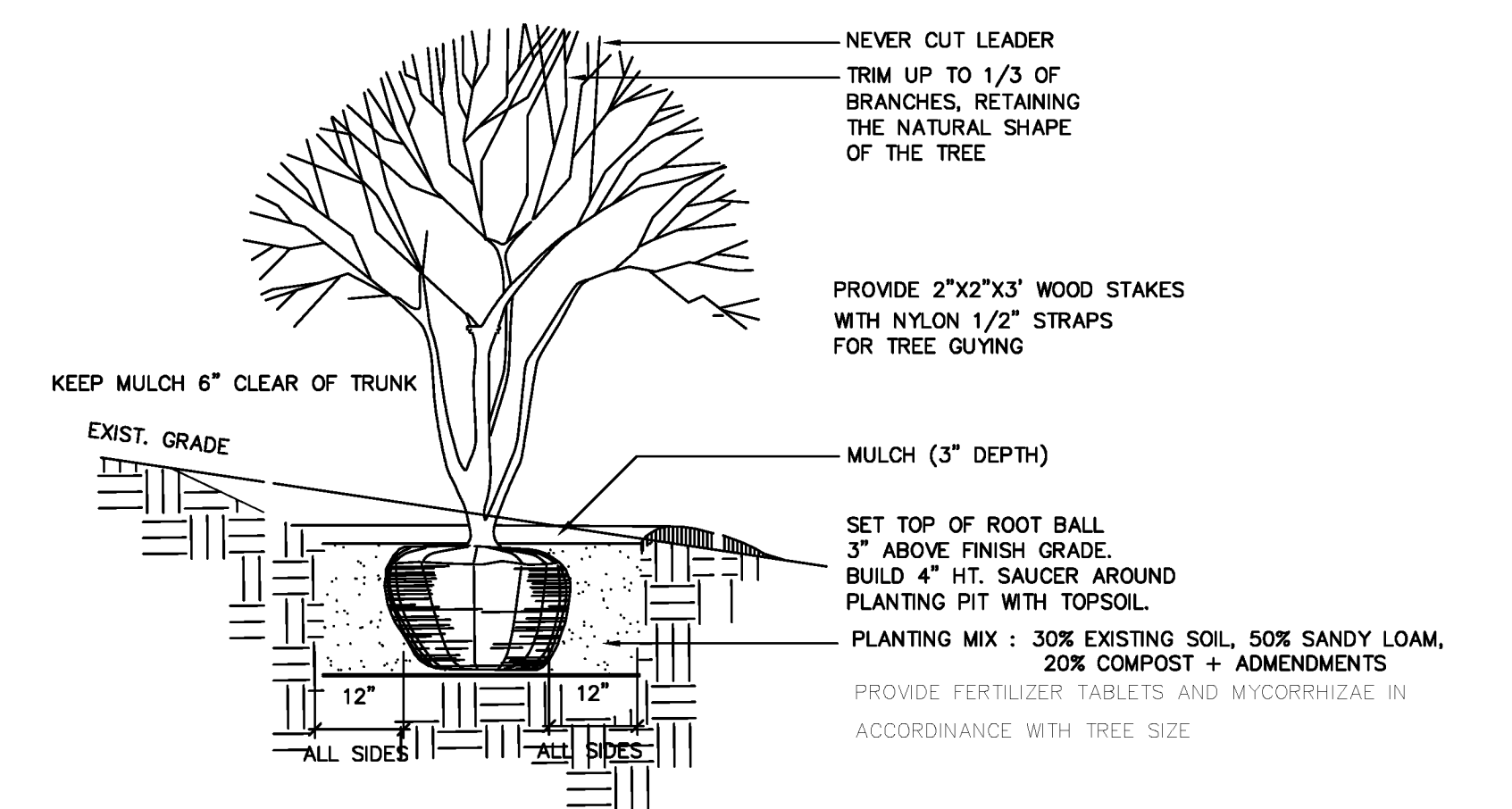
CANOPY TREE PLANTING ON SLOPE

NTS



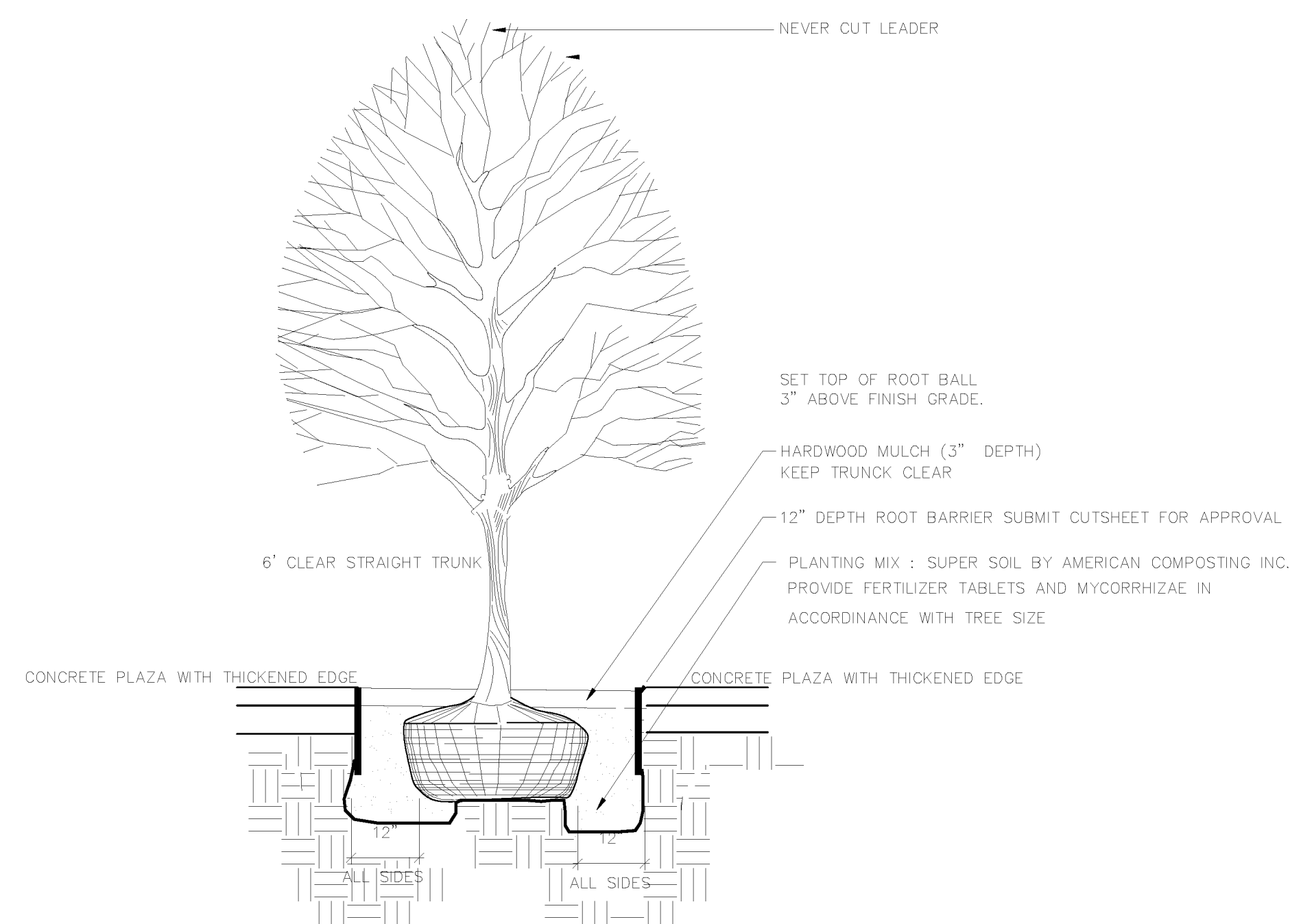
ORNAMENTAL TREE PLANTING

NTS



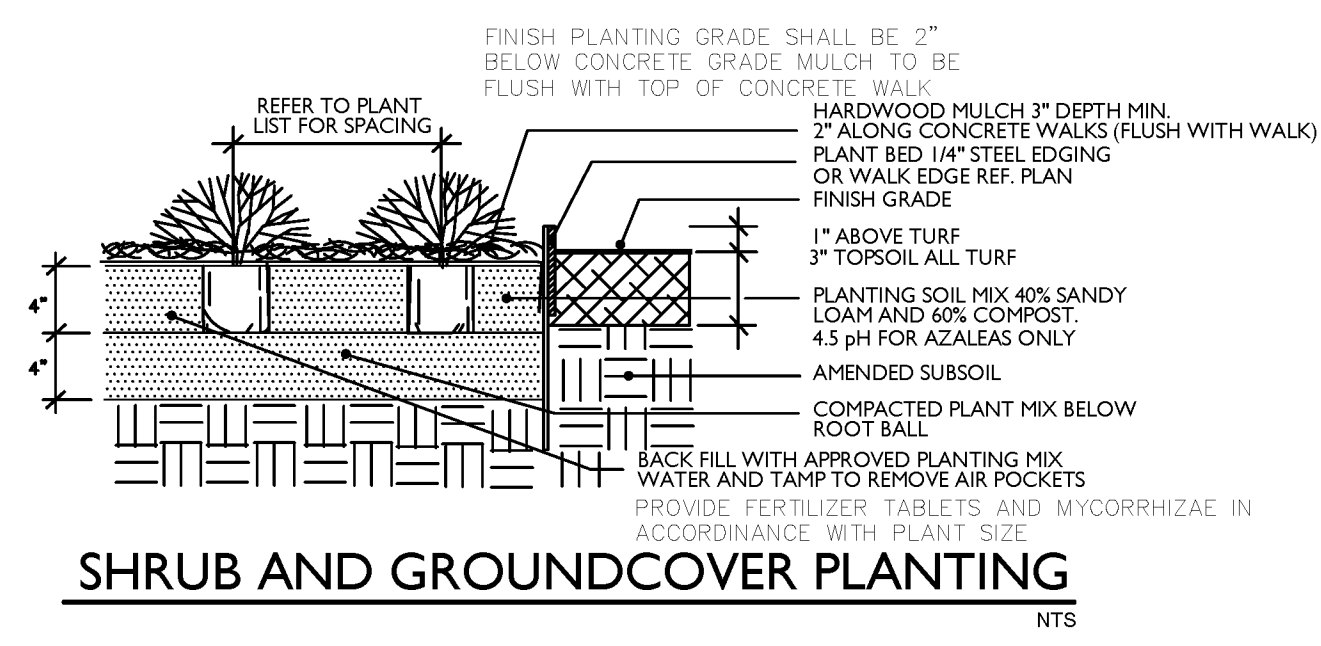
ORNAMENTAL TREE PLANTING ON SLOPE

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OPEN TREE WELL PLANTING

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SHRUB AND GROUNDCOVER PLANTING

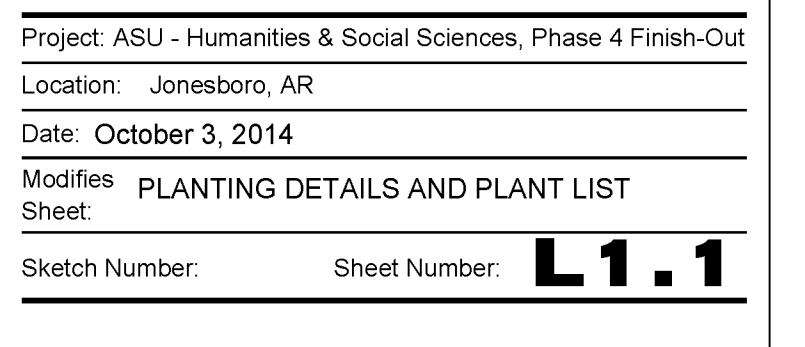
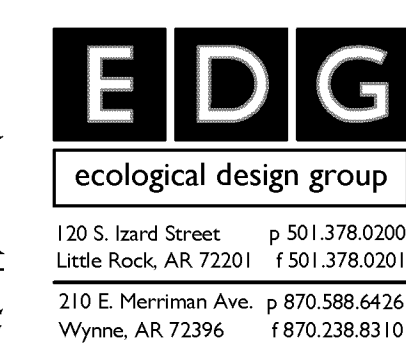
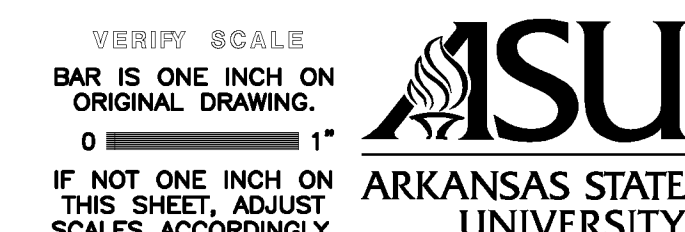
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PLANT LIST				All QUANTITIES to be verified by landscape contractor	
Trees					
COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION	SPACING		
American Elm	Ulmus americana 'Princeton'	2 1/2" caliper, 12' Ht., 4' spread	As Shown		
Green Ash	Fraxinus pennsylvanica 'Marshall Seedless'	2 1/2" caliper, 12' Ht., 4' spread	As Shown		
American Beech	Fagus grandiflora	2 1/2" caliper, 10' Ht., 3' spread	As Shown		
Blue Atlas Cedar	Cedrus atlantica	4" caliper, 12' Ht., 5' spread	As Shown		
Yoshino Cherry	Prunus x yedoensis	4" caliper and 2" caliper ref. plan	As Shown		
Willow Oak	Quercus phellos 'Hightower'	4" caliper, 14' Ht., 5' spread	As Shown		
Sweetbay Magnolia	Magnolia virginiana 'Green Shadow'	4" caliper, 14' Ht., 5' spread standard trunk 4" clear	As Shown		
Shrubs - Groundcovers					
Autumn Angel Azalea	Azalea encore 'Autumn Angel'	5 gallon	36" O.C.		
Asian Jasmine	Trachelospermum asiaticum	1 gallon	18" O.C.		
Confederate Jasmine	Trachelospermum jasminoides	1 gallon	18" O.C.		
Grey Owl Juniper	Juniperus Virginiana 'Grey Owl'	5 gallon	5' O.C.		
Holly Fern	Cyrtomium filicatum	1 gallon	12" O.C.		
Blue Hosta	Hosta 'Halcyon'	1 gallon	18" O.C.		
Stormwater Forebay Plant Material					
Bushy Bluestem	Andropogon glomeratus	1 gallon Arkansas Native Plan Nursery 501-378-0200	18" O.C.		
Louisiana Iris	Iris 'lavender'	1 gallon	18" O.C.		
Soft Rush	Juncus effusus	1 gallon	30" O.C.		
Bald Cypress	Taxodium distichum	2 1/2" caliper 10' ht. or 20 gallon 10' ht.	As Shown		
Miscellaneous					
QTY	DESCRIPTION	REMARKS			
Ref. Plan	Planting Mix	60% Compost and 40% Topsoil, 8" all Planting Beds pest and weed seed free			
Ref. Plan	Hardwood Mulch	3" depth all planting beds and beneath tree dripline / keep 6" clear around trunks, typ.			
Ref. Plan	Bermuda Tifway 419	Solid, weed free sod - 3" topsoil in all areas			
	Tree Staking Guy Material	ASU Standard - Verify			
	Tennessee Cobblestone	5"-8" diameter submit sample for approval. Ref. sheet c2.0 for additional areas			

R2A
18

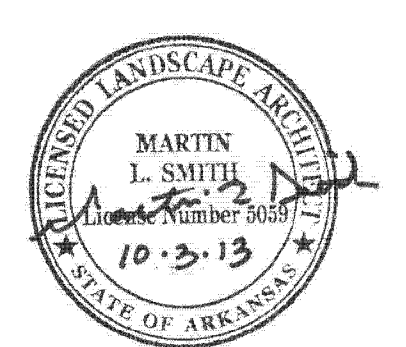
REVIEW ALL UTILITY LINE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO DIGGING - NOTIFY LANDSCAPE ARCHITECT WITH ANY POTENTIAL CONFLICTS

Landscape Architect to review topsoil and planting mix prior to planting
Till to a depth of 12" with existing soil



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R2A
18 PR18-R2 - SHEET REISSUED 08/22/14



Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2014
Modifies: PLANTING DETAILS AND PLANT LIST
Sheet:
Sketch Number: Sheet Number: **L1.1**

QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.

IRRIGATION LEGEND

- 1 [Symbol] 2" WATER METER with 63 gpm @ 70 psi REQUIRED.
- 1 [Symbol] 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSY.
- 1 [Symbol] BERMAD #410 2" NORMALLY OPEN MASTER VALVE
- 1 [Symbol] RAINBIRD FS200P 2" FLOW SENSOR
- 1 [Symbol] RAINBIRD 100PEB 1" ZONE VALVE W/FLOW CONTROL
- 9 [Symbol] RAINBIRD 150PEB 1-1/2" ZONE VALVE W/FLOW CONTROL
- 17 [Symbol] RAINBIRD 200PEB 2" SOLENOID VALVE W/FLOW CONTROL
- 1 [Symbol] RAINBIRD ESP-LXD 2-WIRE DECODER TYPE CONTROLLER
- 1 [Symbol] RAINBIRD WR2 RAIN/FREEZE SHUTOFF SENSOR
- 5 [Symbol] RAINBIRD 3RC QUICK COUPLING VALVE (PROVIDE 2 KEYS)

- 2 [Symbol] RAINBIRD 1804-PRS POP-UP TURF SPRAY - 8-HE-VAN NOZZLE
- 4 [Symbol] RAINBIRD 1804-PRS POP-UP TURF SPRAY - 10-HE-VAN NOZZLE
- 5 [Symbol] RAINBIRD 1804-PRS POP-UP TURF SPRAY - 12-VAN NOZZLE
- 12 [Symbol] RAINBIRD 1804-PRS POP-UP TURF SPRAY - 15-VAN NOZZLE
- 34 [Symbol] RAINBIRD 1804-PRS POP-UP TURF SPRAY - 18-VAN NOZZLE

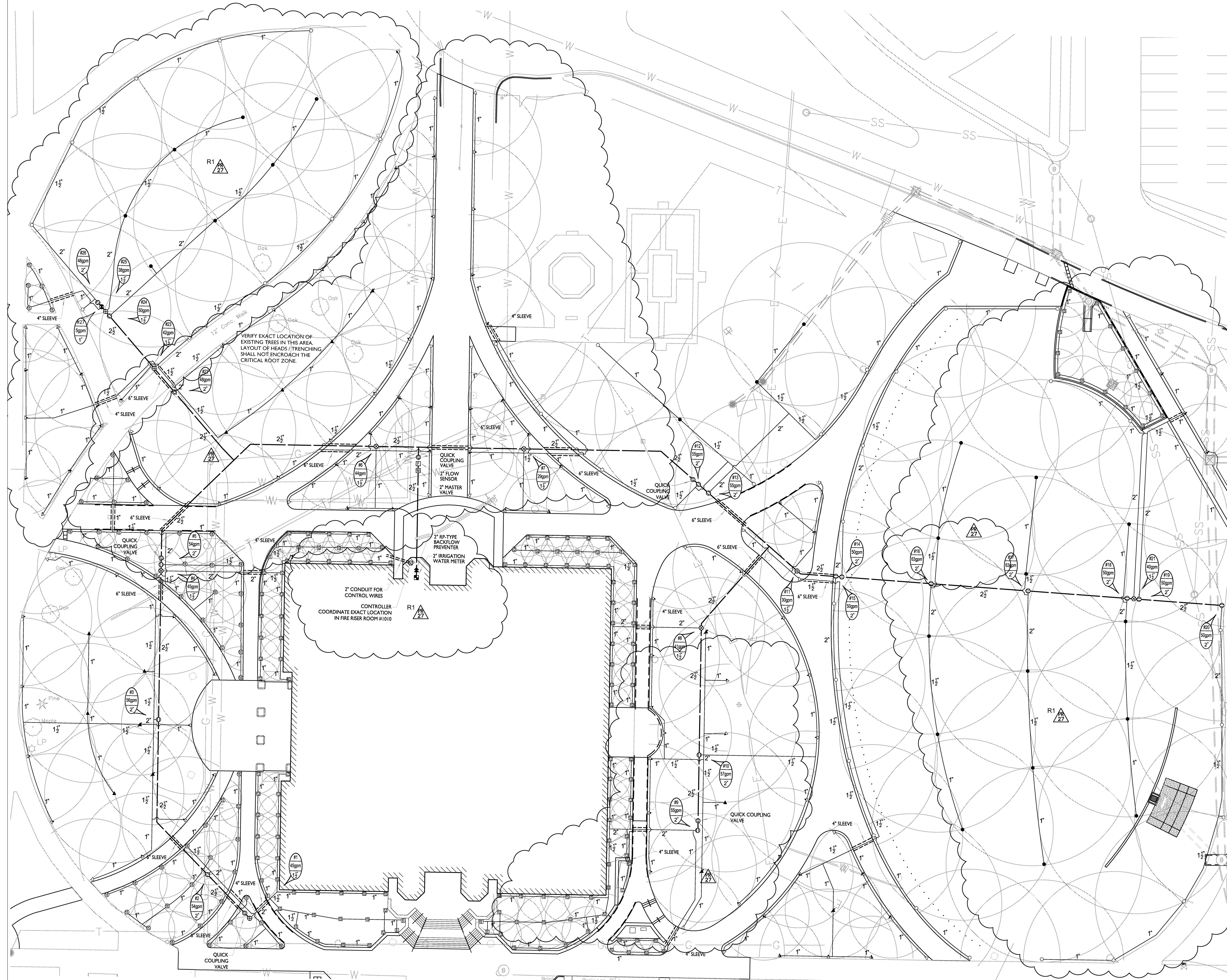
- 8 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 8-HE-VAN NOZZLE
- 17 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 10-HE-VAN NOZZLE
- 78 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 12-VAN NOZZLE
- 42 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 15-VAN NOZZLE
- 2 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 15SST NOZZLE
- 2 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 15RCS NOZZLE
- 2 [Symbol] RAINBIRD 1812-PRS POP-UP SHRUB SPRAY - 15LCS NOZZLE

- 3 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 1.0LA NOZZLE
- 31 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 2.0LA NOZZLE
- 6 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 3.0LA NOZZLE
- 21 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 1.5 NOZZLE
- 47 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 3.0 NOZZLE
- 8 [Symbol] RAINBIRD 5004-PL-PRS POP-UP TURF ROTOR - 6.0 NOZZLE

- 2 [Symbol] RAINBIRD 6504 POP-UP TURF ROTOR - #6 NOZZLE
- 41 [Symbol] RAINBIRD 6504 POP-UP TURF ROTOR - #10 NOZZLE
- 24 [Symbol] RAINBIRD 6504 POP-UP TURF ROTOR - #16 NOZZLE

- [Symbol] SCHEDULE 40 PVC LATERAL PIPING
- [Symbol] SCHEDULE 40 PVC MAINLINE PIPING
- [Symbol] SCHEDULE 40 PVC SLEEVING

NOTE:
REFER TO SHEET L2.1 FOR IRRIGATION NOTES
& INSTALLATION DETAILS

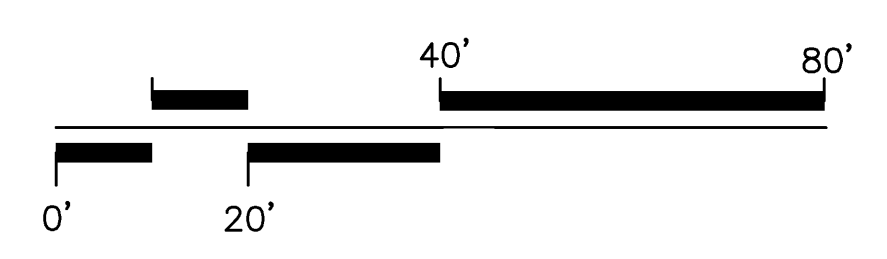


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- R1 [Symbol] PROPOSAL REQUEST-26-R1 09/19/14
- R26 [Symbol] PROPOSAL REQUEST-26 08/28/14

SITE IRRIGATION PLAN

SCALE: 1"=20'



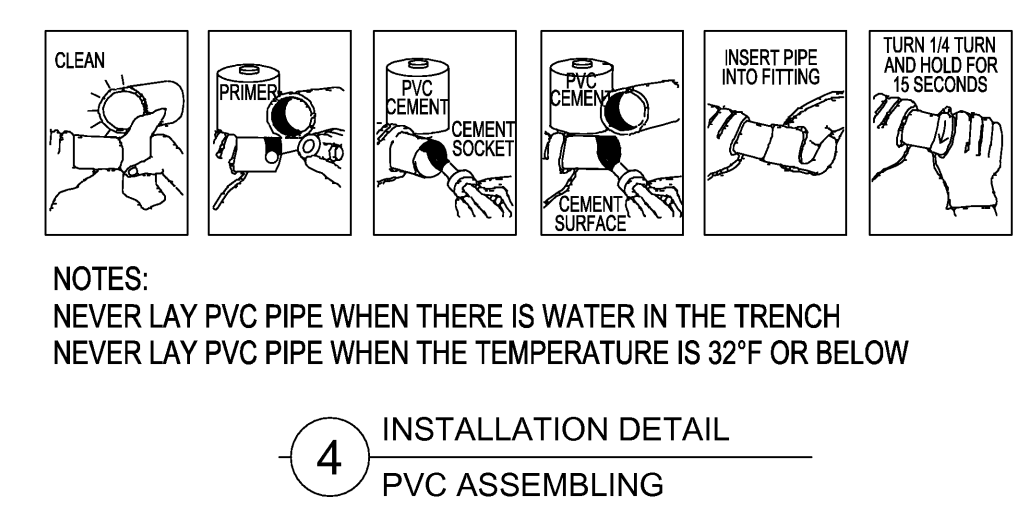
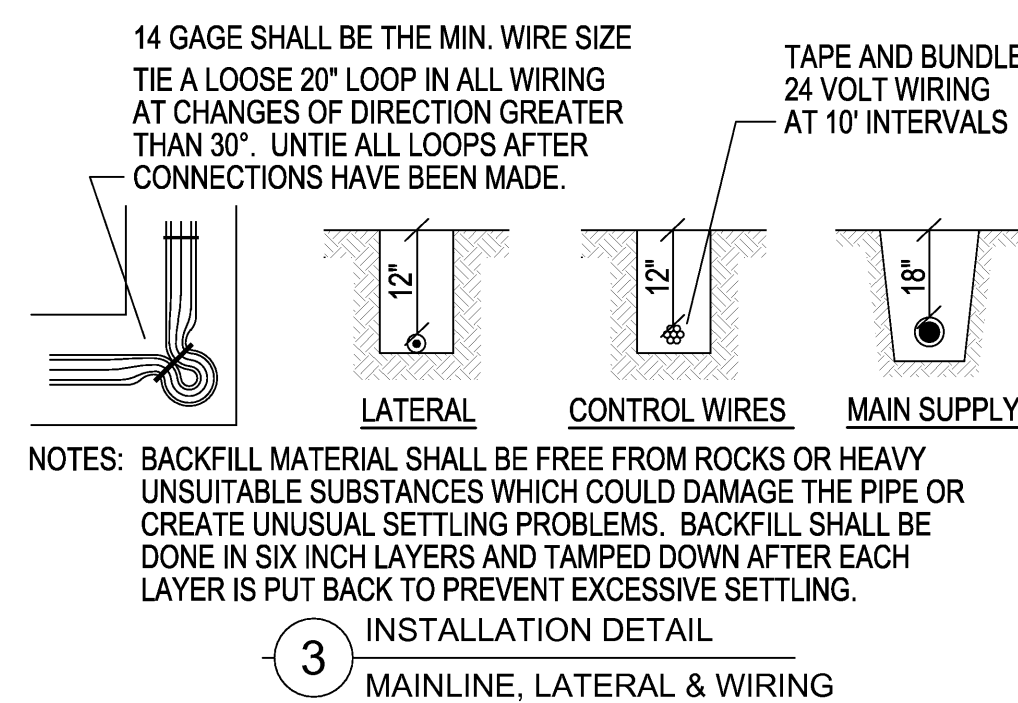
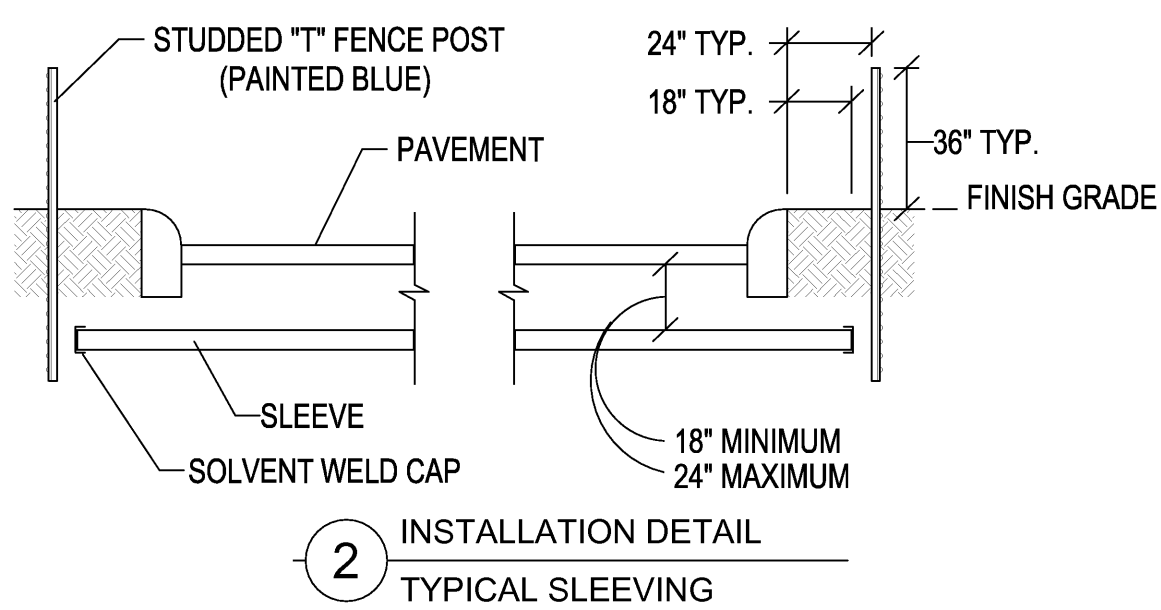
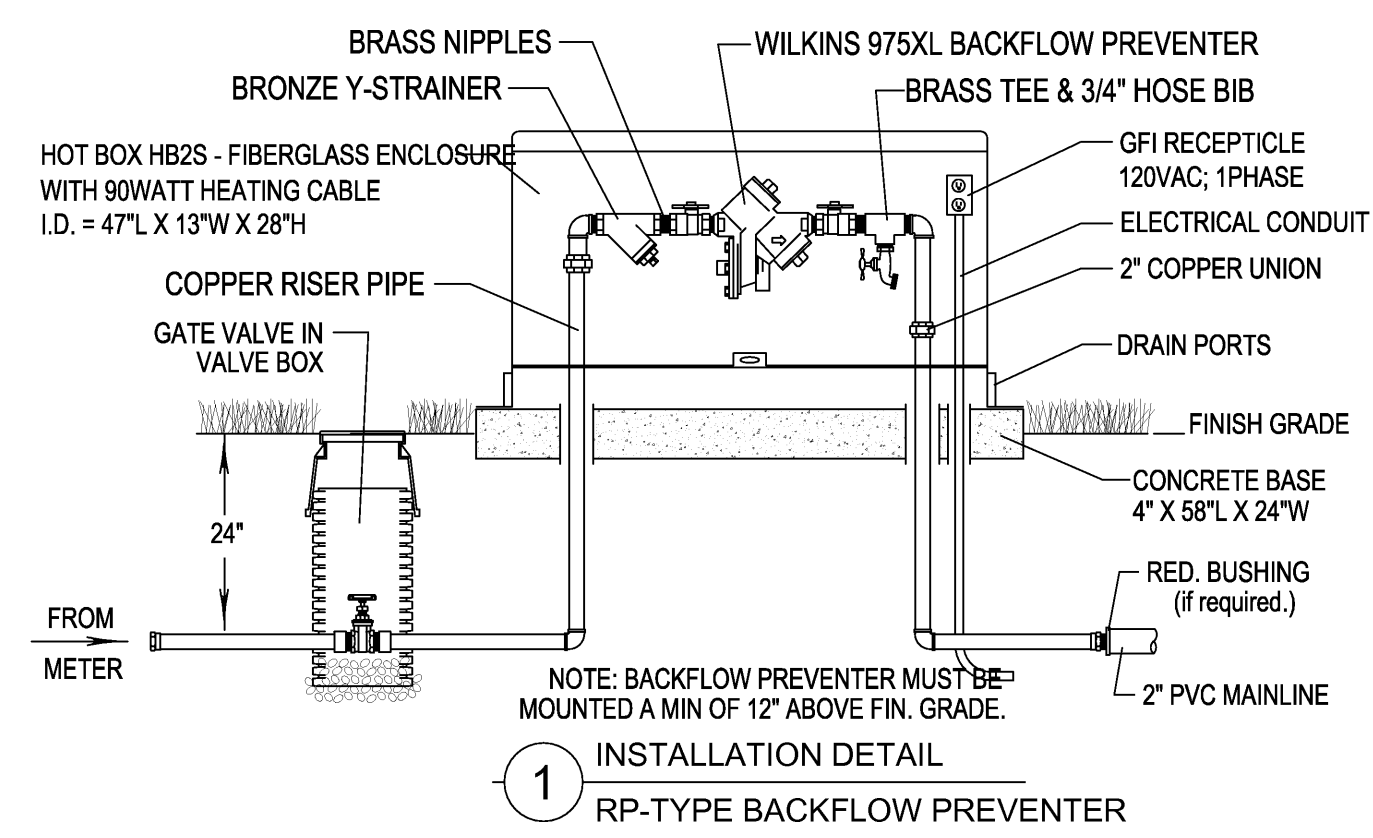
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2014
Modifies: SITE IRRIGATION PLAN
Sheet Number: **L2.0**



GENERAL NOTES

IRRIGATION CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS. COORDINATE EXACT LOCATIONS OF WATER METER, BACKFLOW PREVENTER, CONTROLLER AND CLIMATE SENSOR WITH THE ARCHITECT AND GENERAL CONTRACTOR.

CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM RESIDUAL WATER PRESSURE OF 70psi @ 60gpm. CONTRACTOR SHALL NOTIFY THE OWNER IF WATER PRESSURE IS LESS THAN NOTED.

WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. INSTALL PIPING AND SPRINKLERS ON THE INSIDE OF NEW CURBLINES IF POSSIBLE. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACT OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.

CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOWGROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE AT LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORKING AREA.

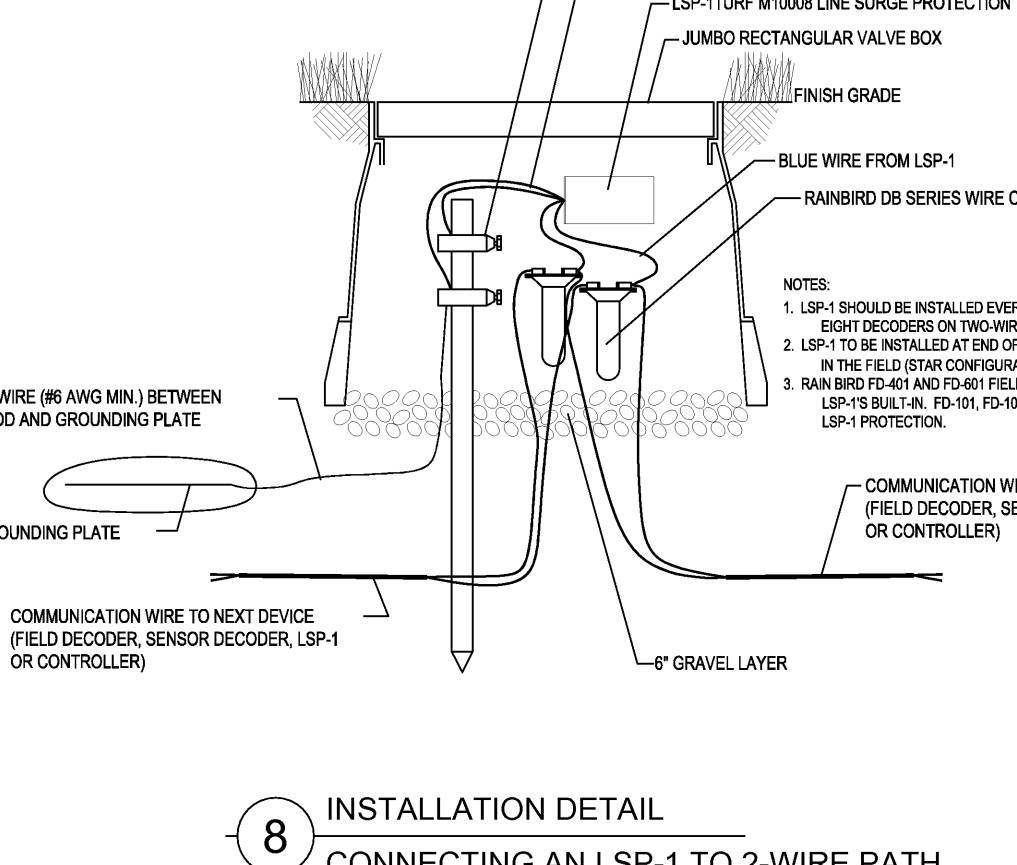
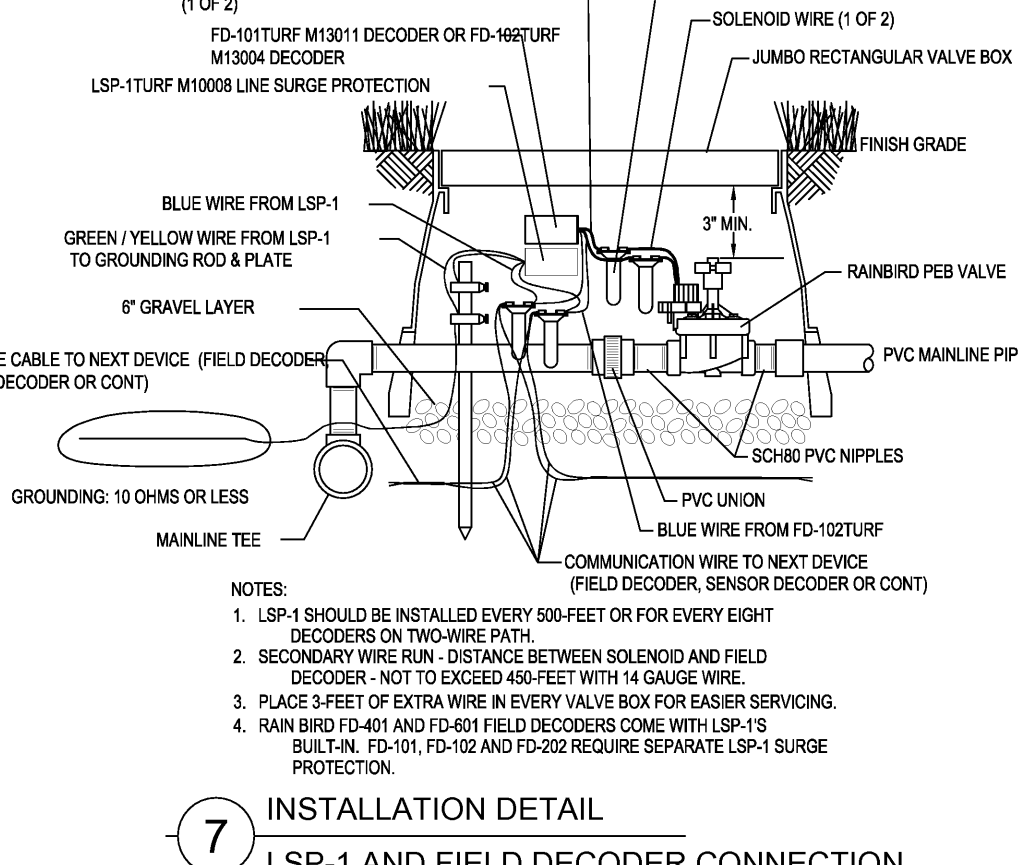
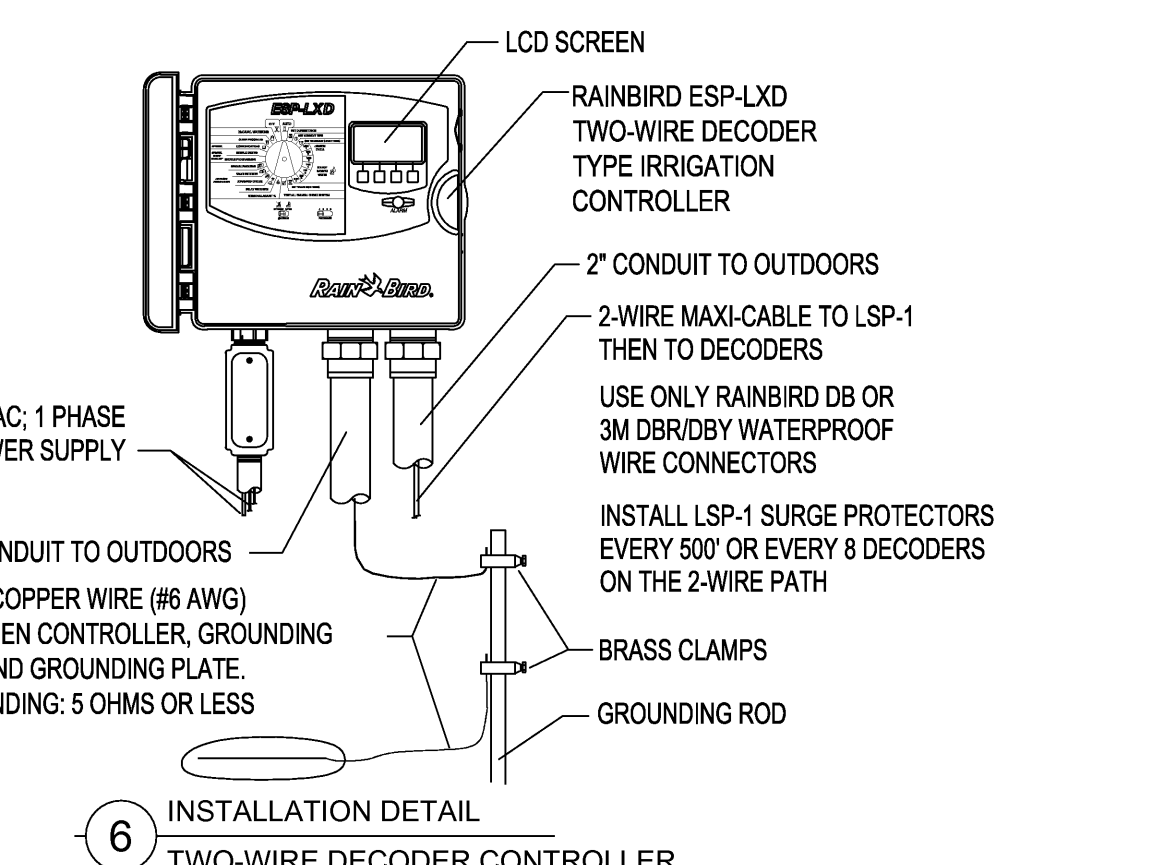
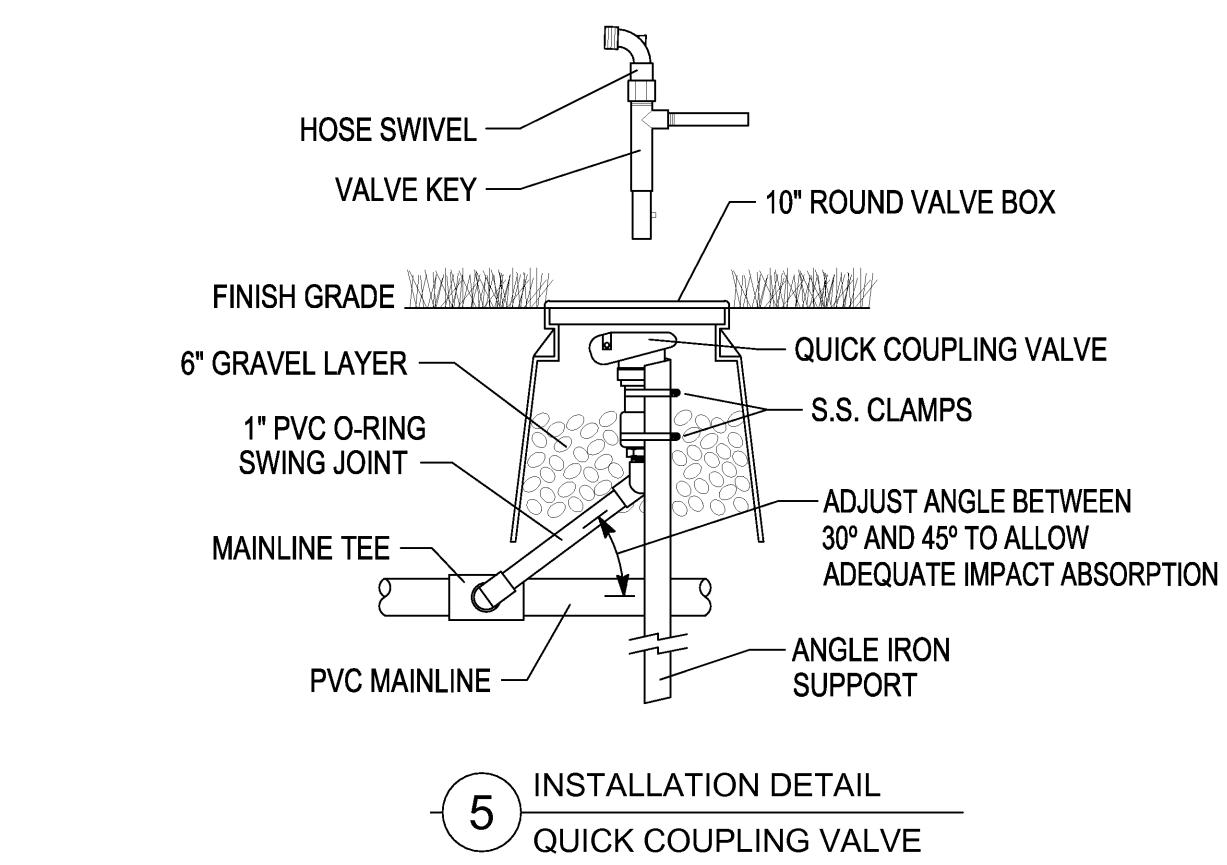
THE IRRIGATION DESIGN IS DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.

WINTERIZATION SHALL BE DONE USING A COMBINATION OF MANUAL DRAIN VALVES IN THE LOW POINTS OF THE MAINLINE, AUTOMATIC DRAIN VALVES ON LATERAL LINES AND WRAPPING BACKFLOW PREVENTER WITH HEAT TAPE INSIDE THE ENCLOSURE.

ALL PVC MAINLINE AND LATERAL PIPING SHALL BE PVC SCH 40. ALL PVC FITTINGS SHALL BE SCH. 40 PVC TYPE 1 AND MUST BE OF DOMESTIC MANUFACTURE. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURER OF THE PIPE.

CONTRACTOR SHALL INSTALL A TRACER WIRE ABOVE ALL MAINLINE PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

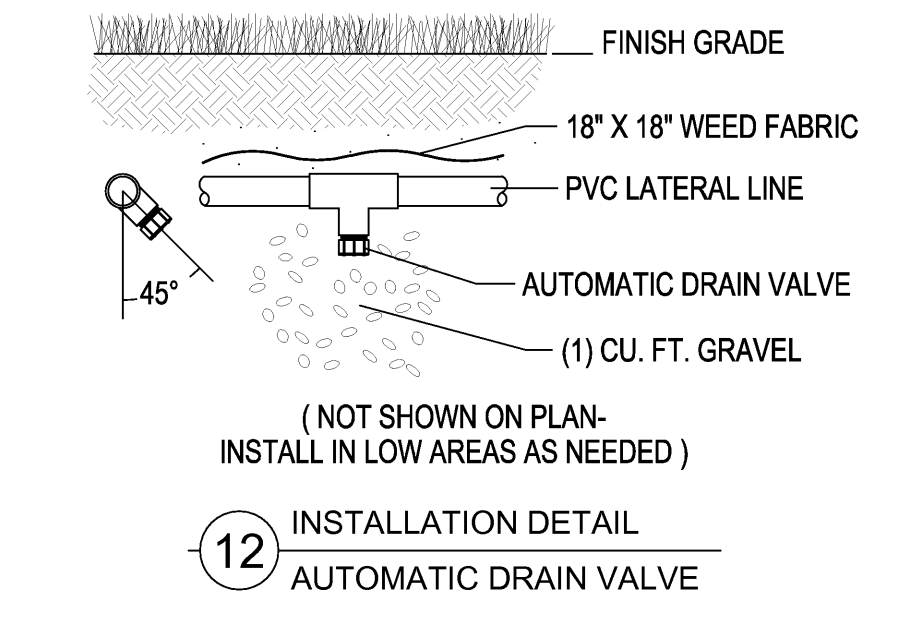
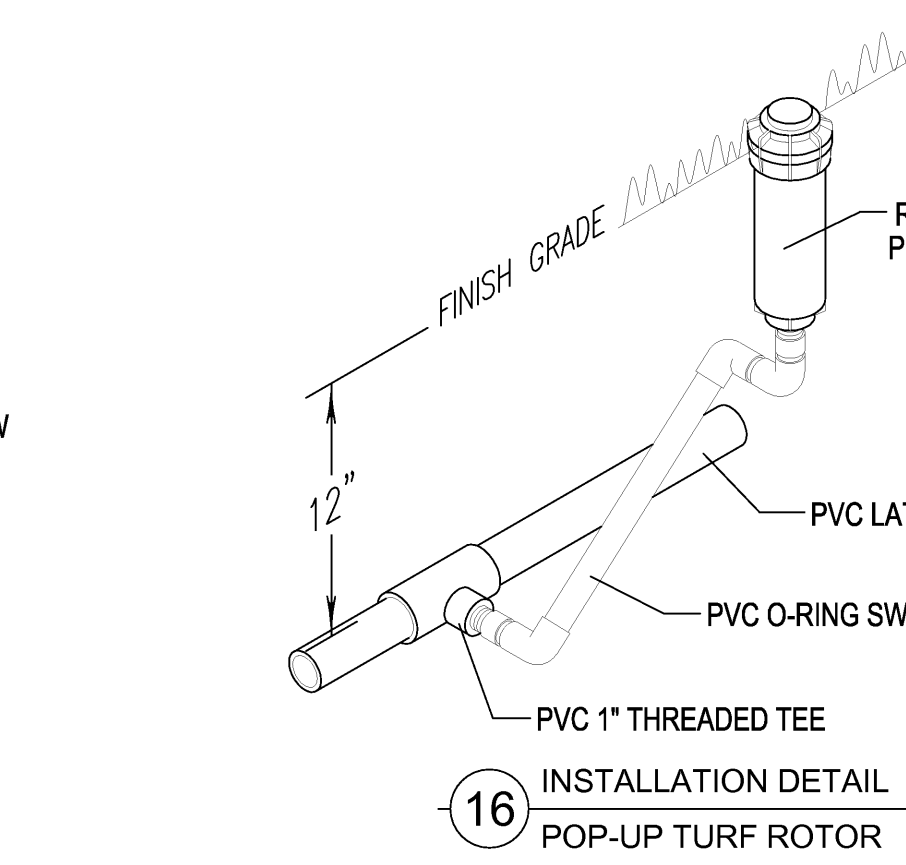
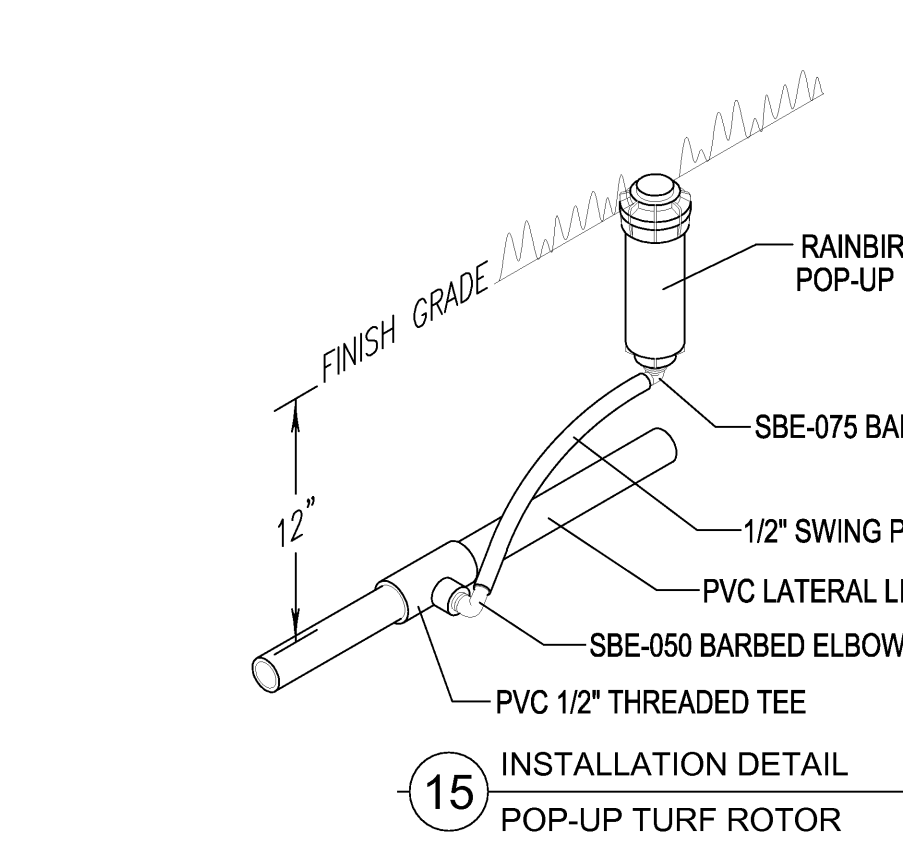
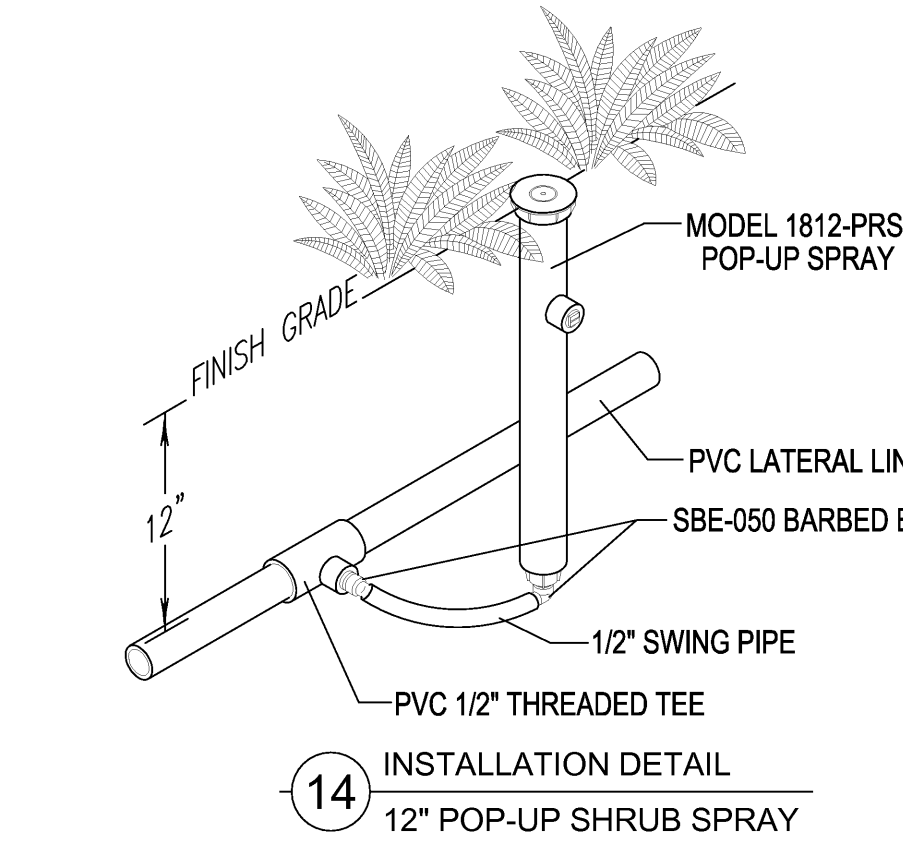
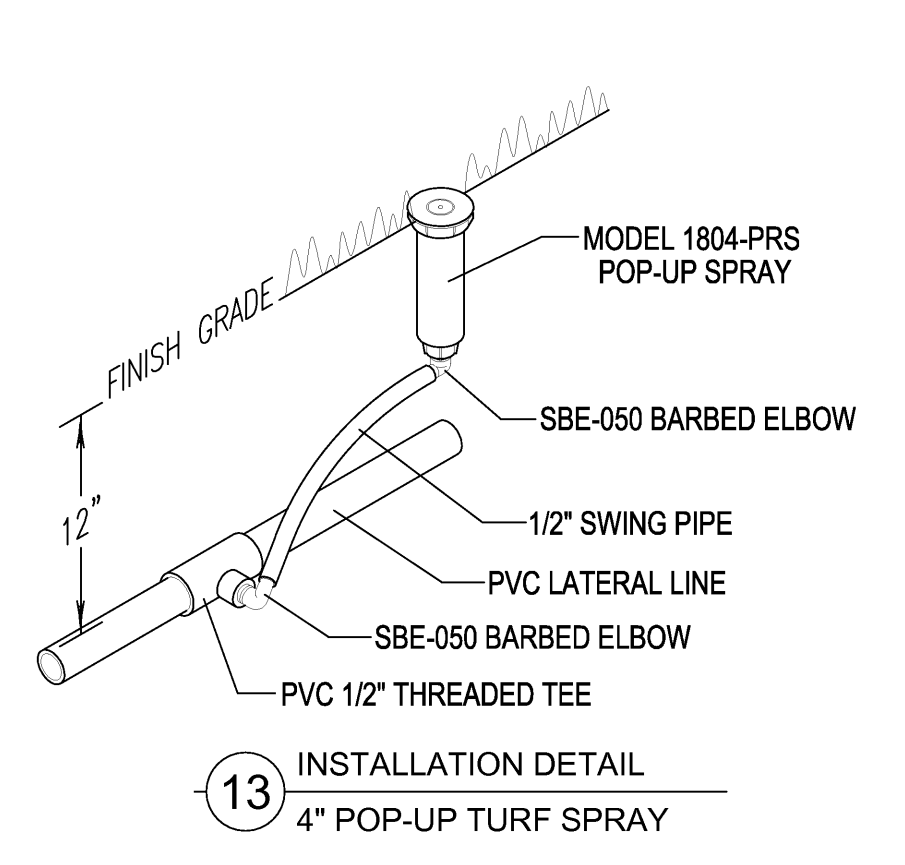
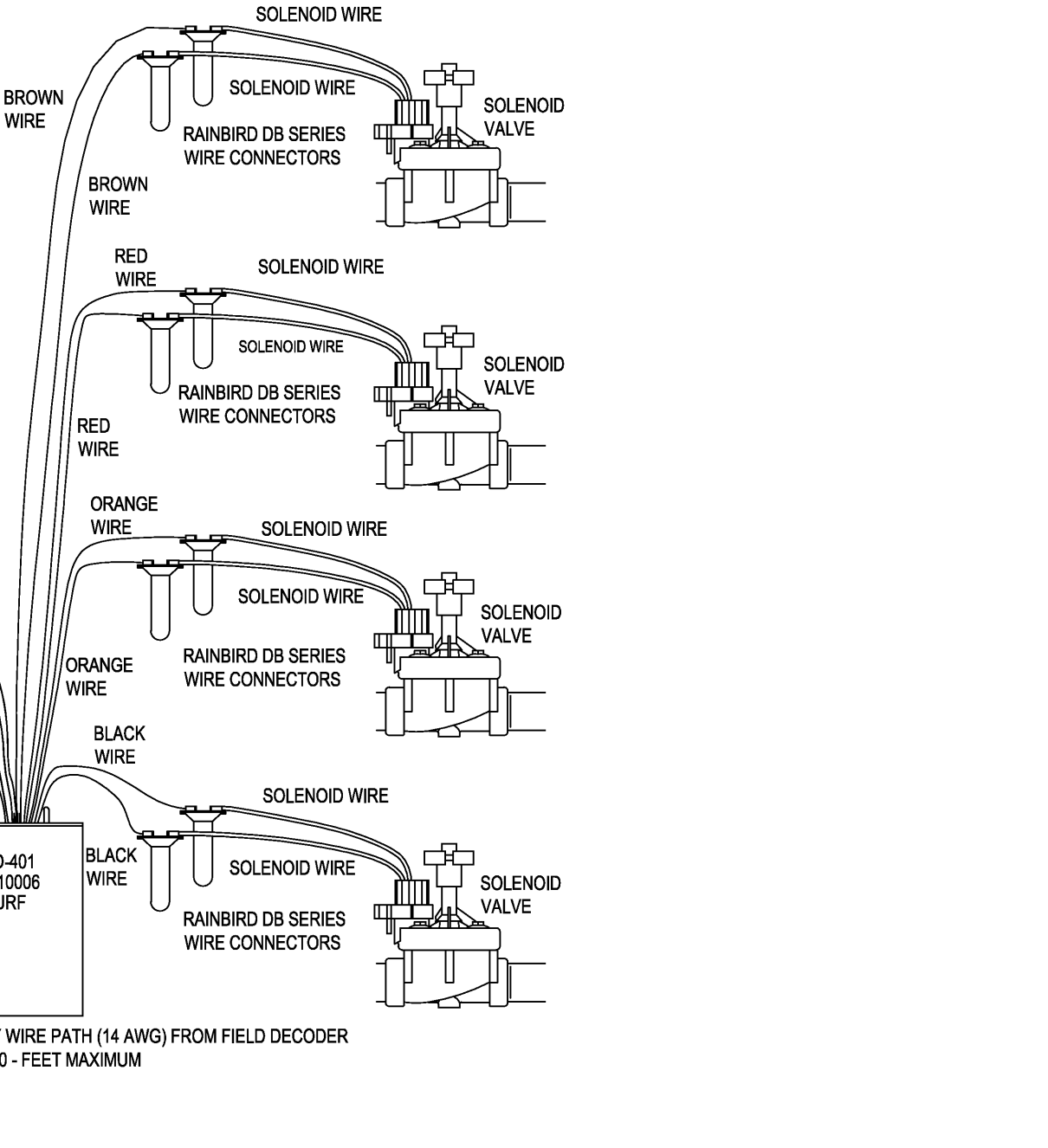
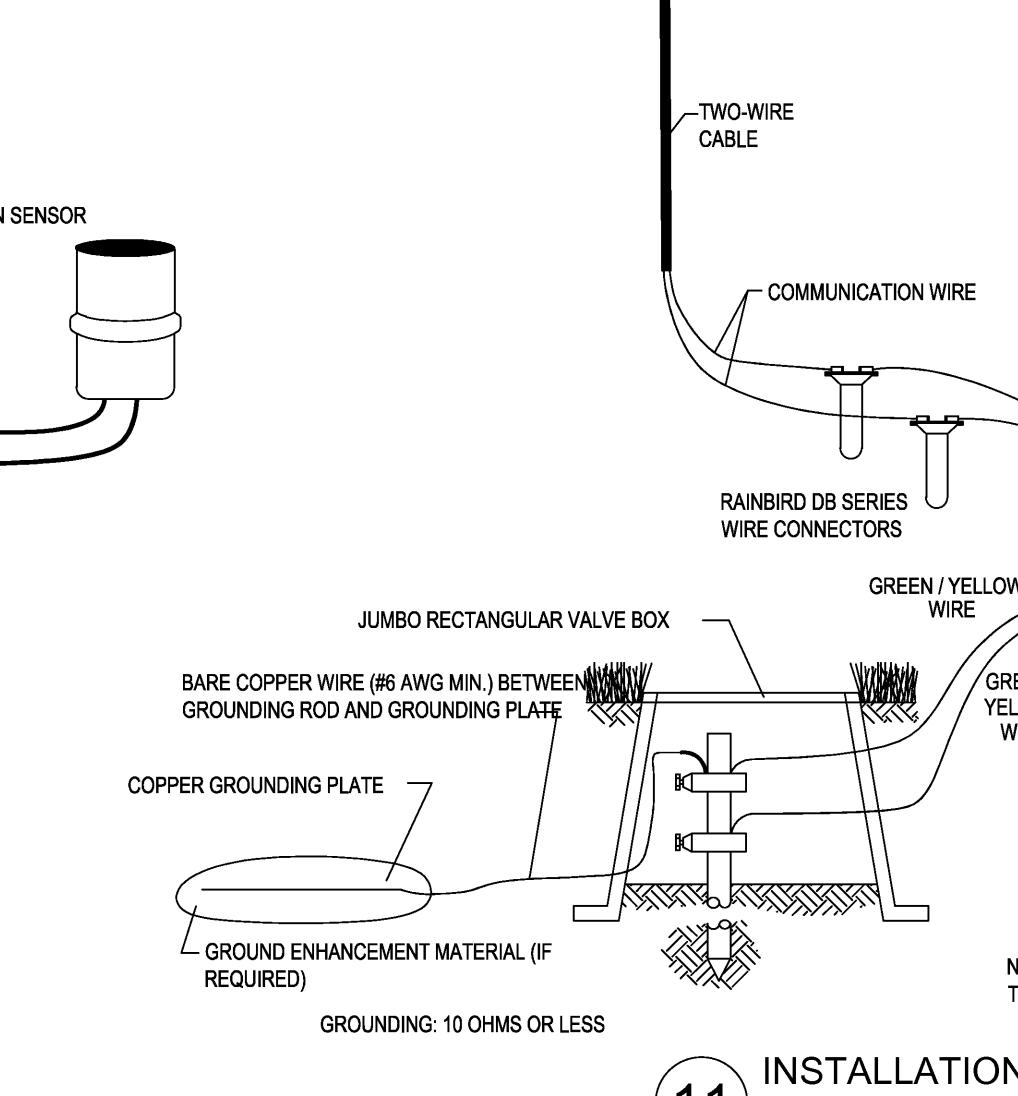
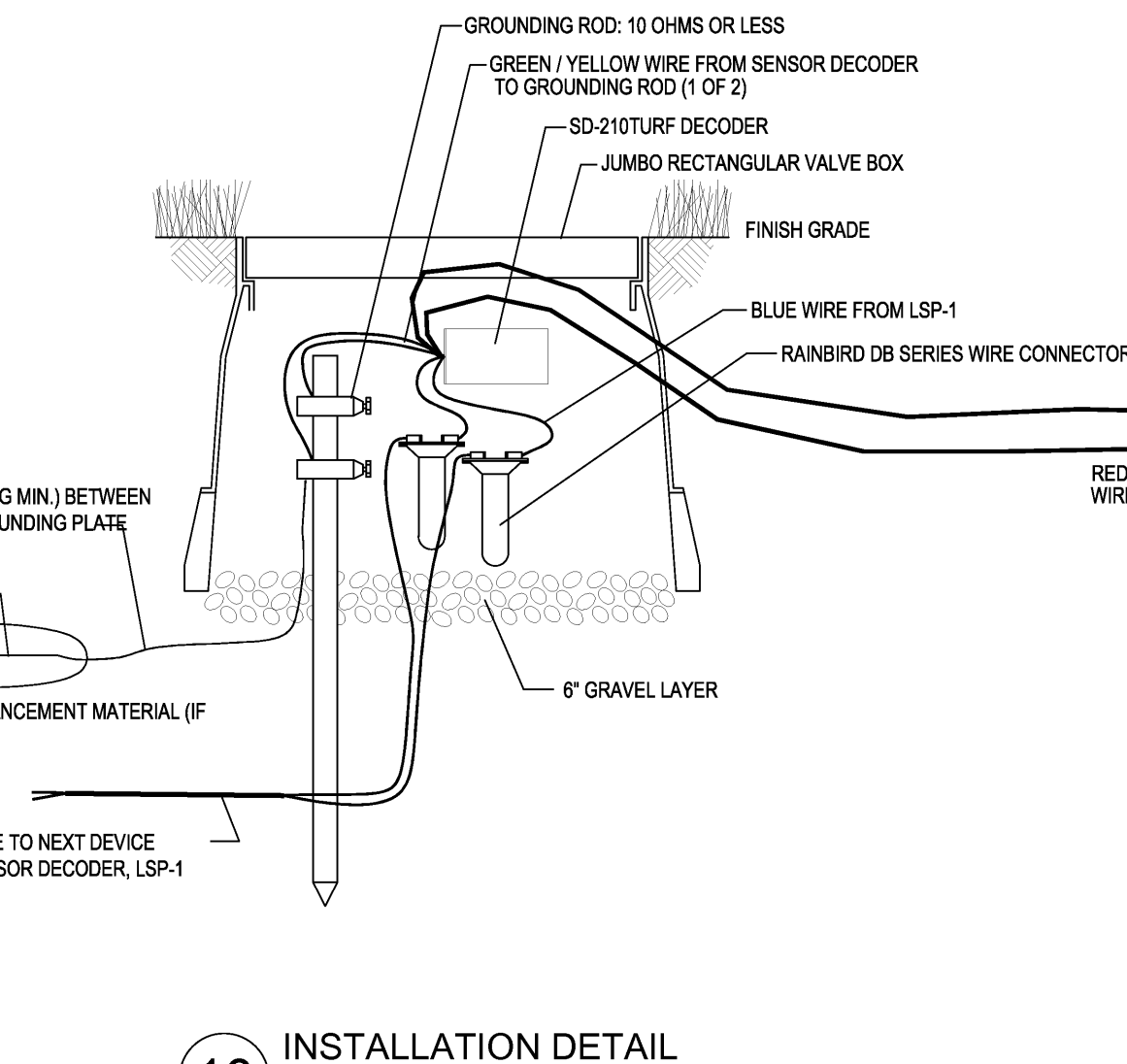
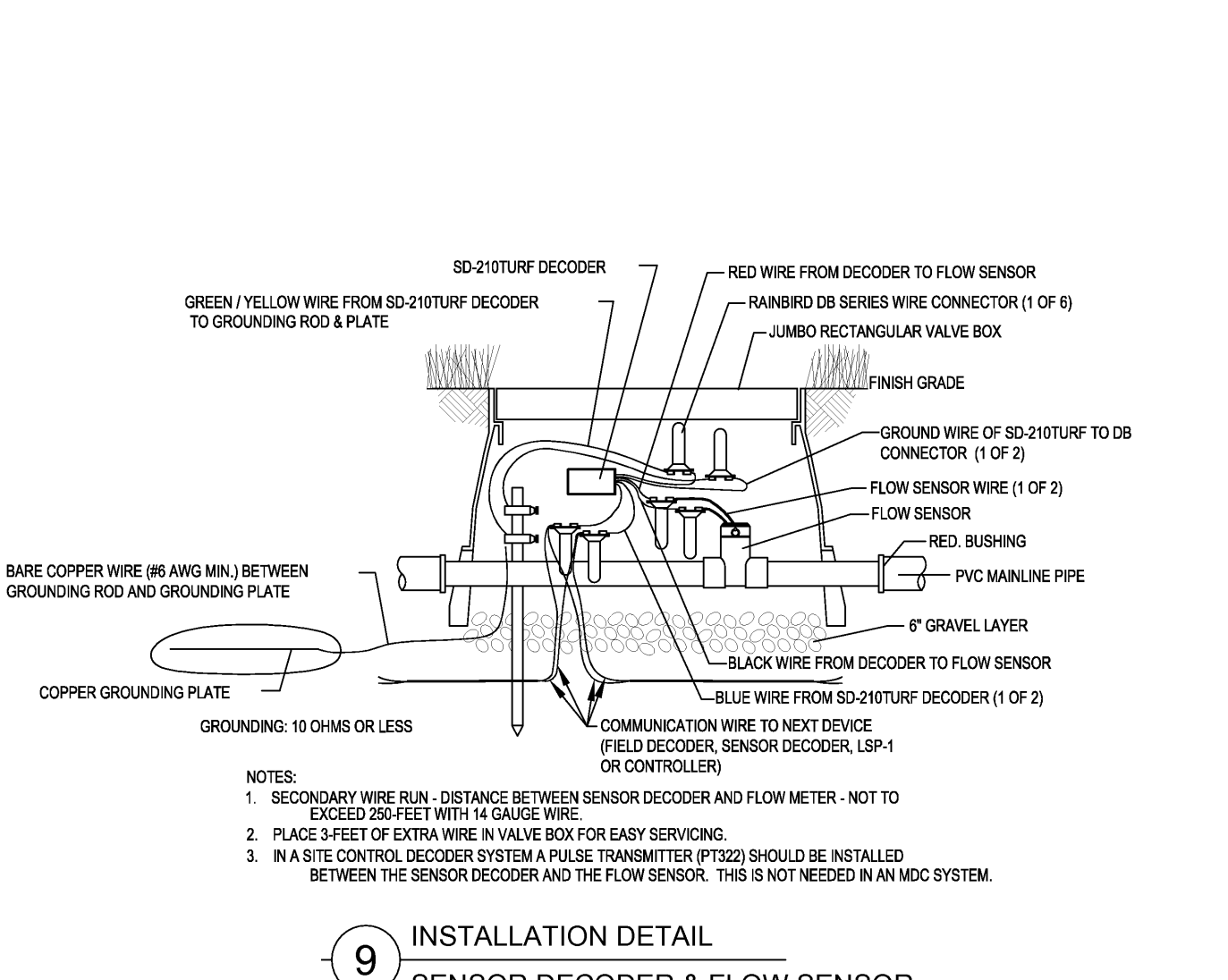
INSTALL SPRINKLERS WITH CHECK VALVE FEATURE TO AVOID LOW-HEAD DRAINAGE FROM SPRINKLERS AT LOWER ELEVATIONS. PROGRAM CONTROLLER WITH "CYCLE+SOAK" FEATURE AS REQUIRED TO ALLOW WATER TO INFILTRATE SOIL AND ELIMINATE RUN-OFF.

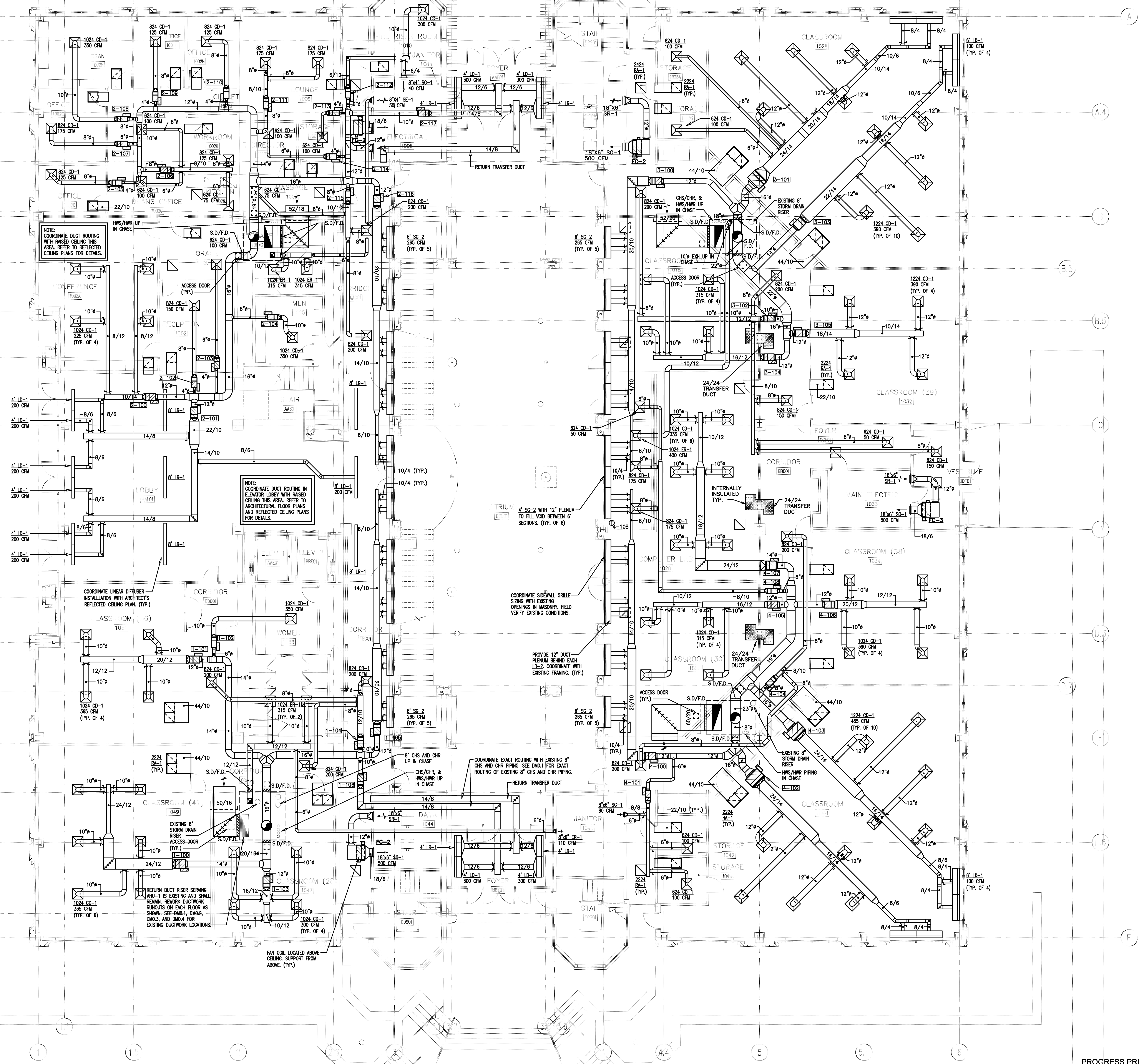


GENERAL NOTES

THE GENERAL CONTRACTOR SHALL PROVIDE SCH40 PVC SLEEVING, BURIED AT A MINIMUM OF 18" AND MAXIMUM OF 24" DEPTH.

UPON COMPLETION OF SITE FILLING AND COMPACTION OPERATIONS, AND PRIOR TO THE CONSTRUCTION OF FOUNDATIONS, ROADWAYS, WALKS OR OTHER PAVEMENTS OR OBSTRUCTIONS, THE GENERAL CONTRACTOR SHALL INSTALL SLEEVES IN SUFFICIENT SIZES TO ACCOMMODATE FUTURE IRRIGATION PIPING AND/OR CONTROL WIRING. ENDS OF SLEEVES SHALL EXTEND 18 INCHES PAST THE EDGES OF ALL PAVING OR CONSTRUCTION. THE ENDS OF THE SLEEVES SHALL BE CLEARLY MARKED FOR FUTURE USE BY THE IRRIGATION CONTRACTOR.





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

- GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 4. COORDINATE ROUTING OF DUCTWORK WITH FIRE SPRINKLER PIPING.
 5. COORDINATE DUCTWORK CROSSING AND PIPING CROSSING LOCATIONS WITH BUILDING STRUCTURE.
 6. SEE M3.3 FOR DUCT AND PIPING SIZES.
 7. COORDINATE DUCTWORK AND PIPING ROUTING TO ALLOW ACCESS TO VAV BOX CONTROL BOX.
 8. PROVIDE COMBINATION SMOKE/FIRE DAMPERS AT EACH DUCT PENETRATION IN THE MECHANICAL SHAFT ENCLOSURES.
 9. BA-1 RETURN GRILLES SHALL HAVE DUCT BOOT AS SHOWN IN DETAIL 8, SHEET M4.2. DUCTWORK SHALL BE 22/10 UNLESS OTHERWISE NOTED. DUCT SHALL BE INTERNALLY INSULATED, DUCT IS NOT SHOWN HATCHED FOR CLARITY.

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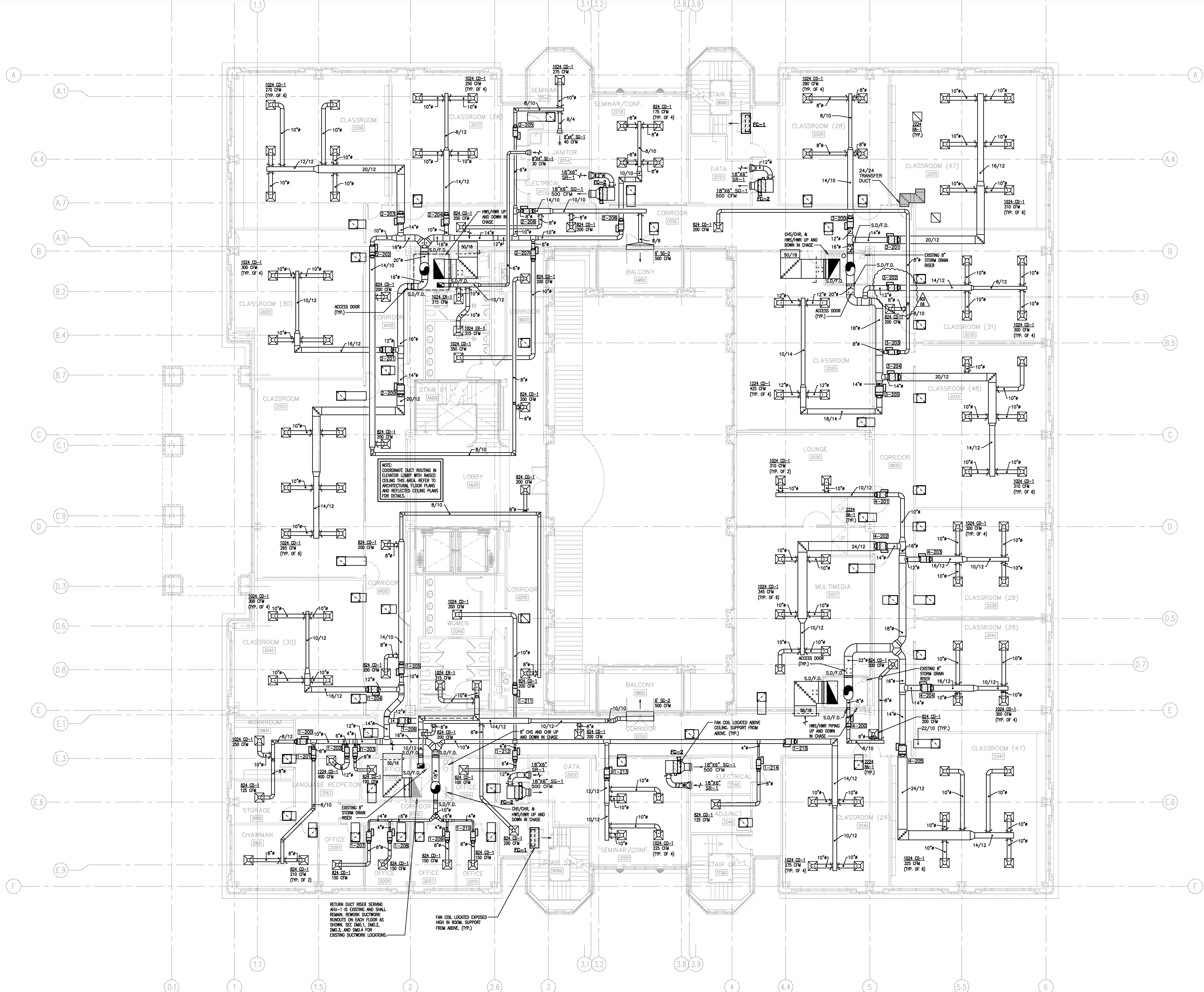
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FIRST FLOOR PLAN - HVAC DUCTWORK
 Sheet Number: **M1.1**

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 10881
 BLACK J. SULLIVAN 10/8/14



NOTE: COORDINATE DUCT ROUTING IN ELEVATOR LOBBY WITH RANDED CEILING THIS AREA REFER TO ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS FOR DETAILS.

RETURN DUCT RISER SERVING AHU-1 IS EXISTING AND SHALL REMAIN. RETURN DUCTWORK RUNOUTS ON EACH FLOOR AS SHOWN. SEE DML1, DML2, DML3, AND DML4 FOR EXISTING DUCTWORK LOCATIONS.

FAN COIL LOCATED EXPOSED HIGH IN ROOM. SUPPORT FROM ABOVE. (TYP.)

- GENERAL NOTES**
- ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 - ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 - FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 - COORDINATE ROUTING OF DUCTWORK WITH FIRE SPRINKLER PIPING.
 - COORDINATE DUCTWORK CROSSING AND PIPING CROSSING LOCATIONS WITH BUILDING STRUCTURE.
 - SEE M3.3 FOR DUCT AND PIPING RISER SIZES.
 - COORDINATE DUCTWORK AND PIPING ROUTING TO ALLOW ACCESS TO VAV BOX CONTROL BOX.
 - PROVIDE COMBINATION SMOKE/FIRE DAMPERS AT EACH DUCT PENETRATION IN THE MECHANICAL SHAFT ENCLOSURES.
 - RA-1 RETURN GRILLES SHALL HAVE DUCT BOOT AS SHOWN IN DETAIL 8, SHEET M4.2. DUCTWORK SHALL BE 22/10 UNLESS OTHERWISE NOTED. DUCT SHALL BE INTERNALLY INSULATED, DUCT IS NOT SHOWN HATCHED FOR CLARITY.

1 SECOND FLOOR PLAN - HVAC DUCTWORK
 1/8" = 1'-0"

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



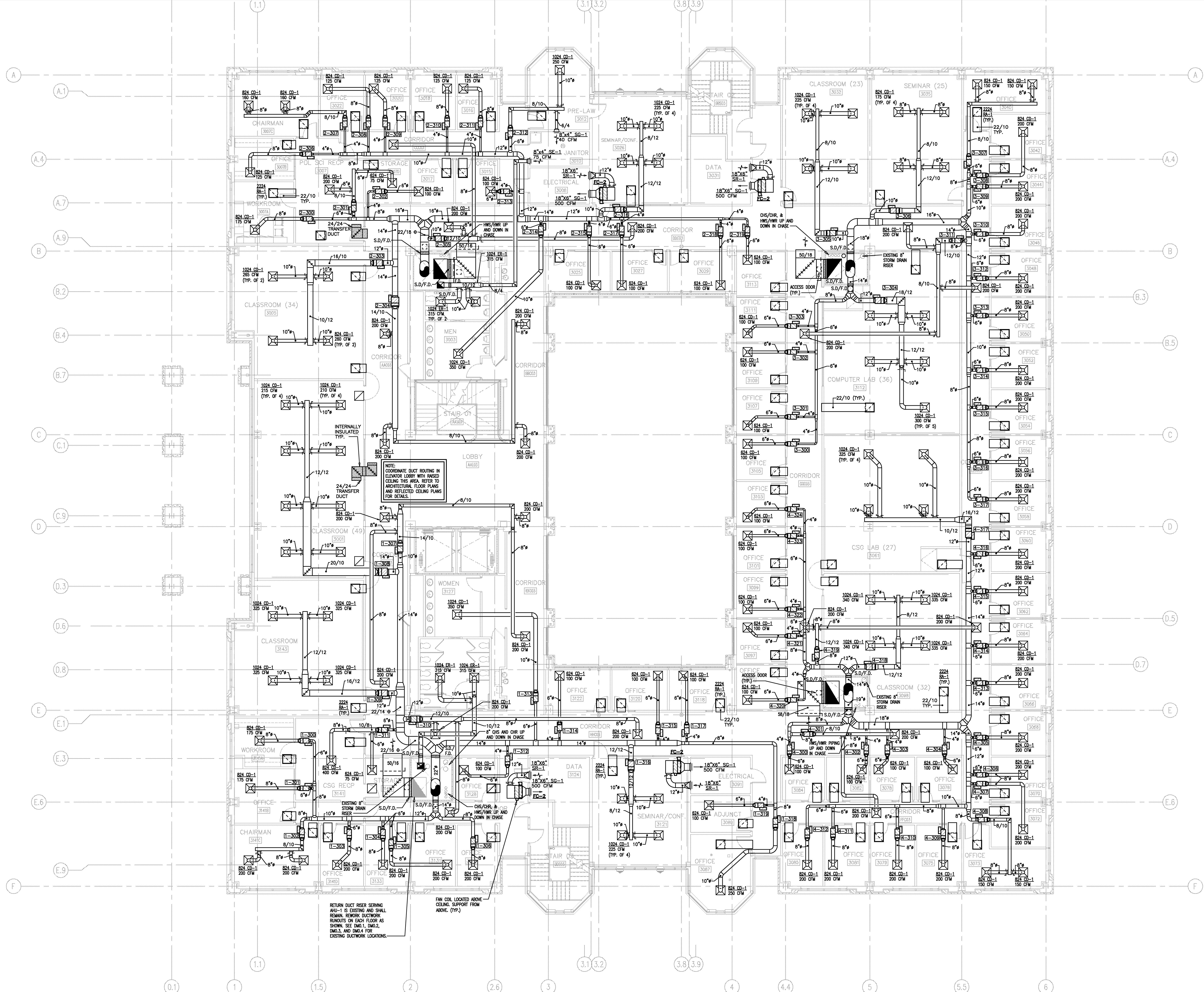
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: SECOND FLOOR PLAN - HVAC DUCTWORK
 Sheet Number: **M1.2**



- GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 4. COORDINATE ROUTING OF DUCTWORK WITH FIRE SPRINKLER PIPING.
 5. COORDINATE DUCTWORK CROSSING AND PIPING CROSSING LOCATIONS WITH BUILDING STRUCTURE.
 6. SEE M3.3 FOR DUCT AND PIPING RISER SIZES.
 7. COORDINATE DUCTWORK AND PIPING ROUTING TO ALLOW ACCESS TO VAV BOX CONTROL BOX.
 8. PROVIDE COMBINATION SMOKE/FIRE DAMPERS AT EACH DUCT PENETRATION IN THE MECHANICAL SHAFT ENCLOSURES.
 9. RA-1 RETURN GRILLES SHALL HAVE DUCT BOOT AS SHOWN IN DETAIL 8, SHEET M4.2. DUCTWORK SHALL BE 22/10 UNLESS OTHERWISE NOTED. DUCT SHALL BE INTERNALLY INSULATED, DUCT IS NOT SHOWN HATCHED FOR CLARITY.

1 THIRD FLOOR PLAN - HVAC DUCTWORK
 1/8" = 1'-0"

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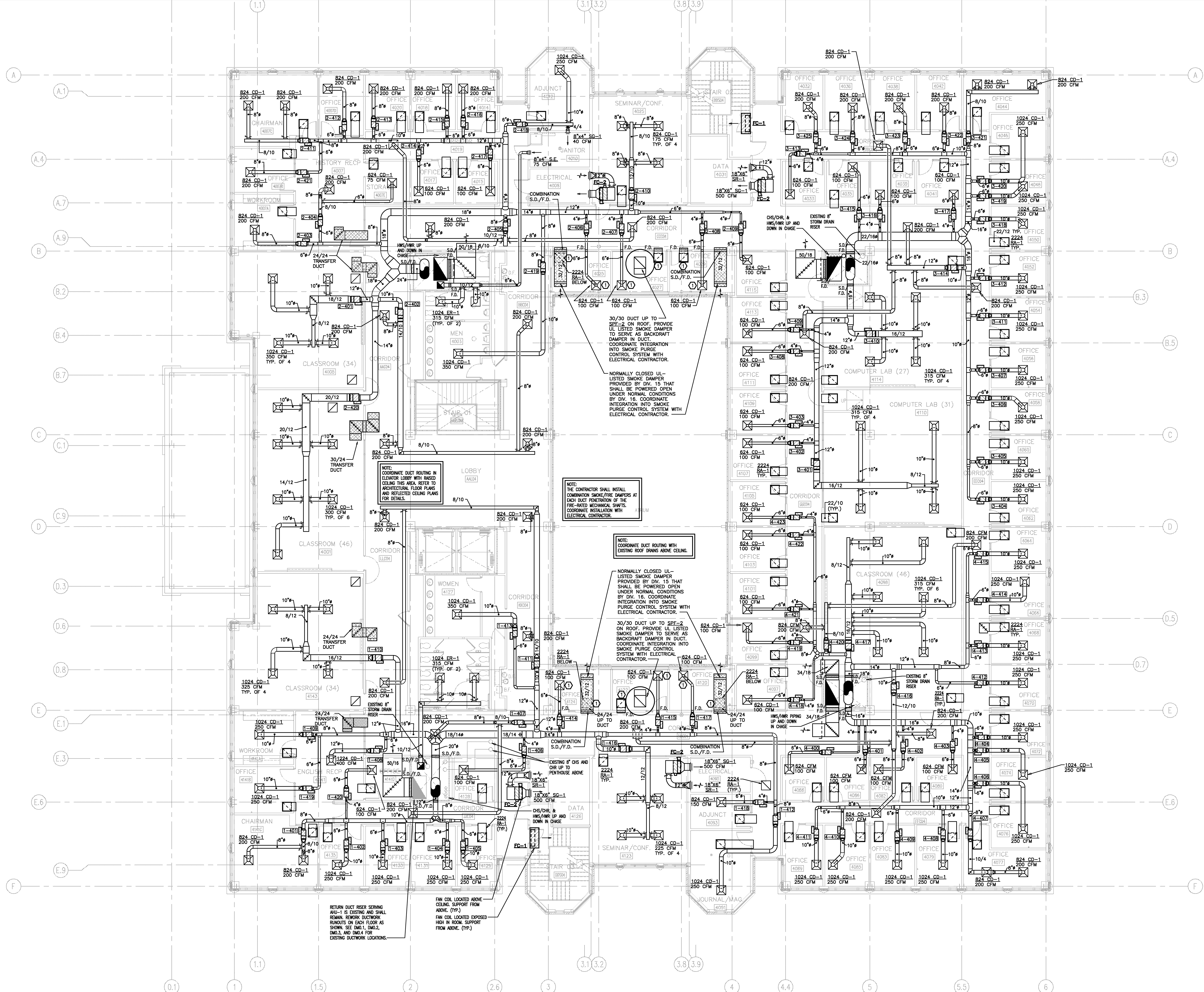
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: THIRD FLOOR PLAN - HVAC DUCTWORK
 Sheet Number: **M1.3**



KEYED NOTES

1 PROVIDE CEILING RADIATION DAMPER AT AIR DEVICE.

- GENERAL NOTES**
- ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 - ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 - FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 - COORDINATE ROUTING OF DUCTWORK WITH FIRE SPRINKLER PIPING.
 - COORDINATE ROUTING OF DUCTWORK AND PIPING CROSSING LOCATIONS WITH BUILDING STRUCTURE.
 - SEE M3.3 FOR DUCT AND PIPING RISER SIZES.
 - COORDINATE DUCTWORK AND PIPING ROUTING TO ALLOW ACCESS TO VAV BOX CONTROL BOX.
 - PROVIDE COMBINATION SMOKE/FIRE DAMPERS AT EACH DUCT PENETRATION IN THE MECHANICAL SHAFT ENCLOSURES.
 - RA-1 RETURN GRILLES SHALL HAVE DUCT BOOT AS SHOWN IN DETAIL 8, SHEET #4.2. DUCTWORK SHALL BE 22/10 UNLESS OTHERWISE NOTED. DUCT SHALL BE INTERNALLY INSULATED. DUCT IS NOT SHOWN HATCHED FOR CLARITY.

1 FOURTH FLOOR PLAN - HVAC DUCTWORK
 1/8" = 1'-0"

VERIFIER SCALE
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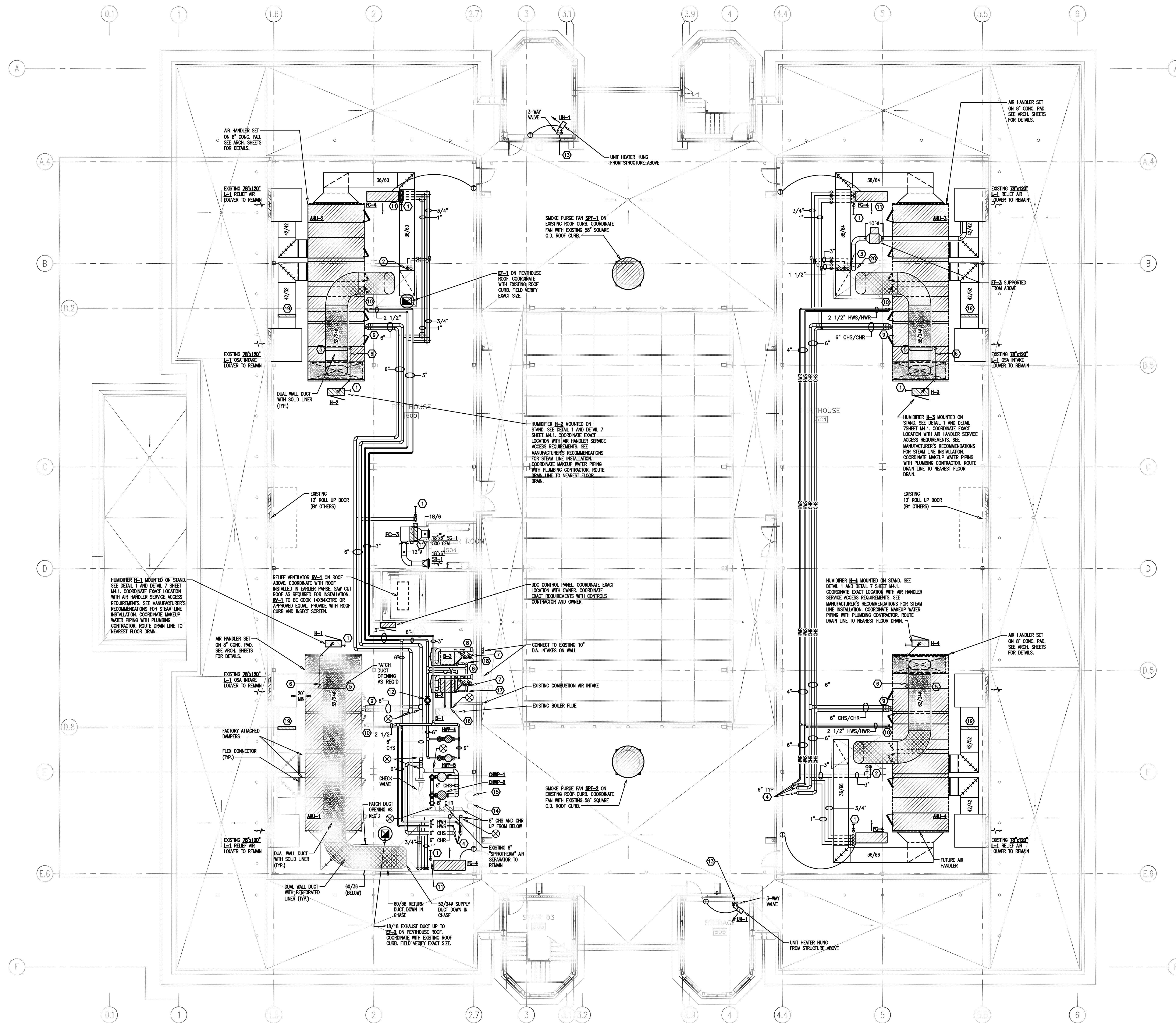
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FOURTH FLOOR PLAN - HVAC DUCTWORK
 Sheet Number: **M1.4**



- GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 4. COORDINATE ROUTING OF DUCTWORK WITH FIRE SPRINKLER PIPING.
 5. COORDINATE DUCTWORK CROSSING LOCATIONS WITH LOCATIONS BUILDING STRUCTURE.
 6. ROUTE PIPING TIGHT AGAINST STRUCTURE AND BETWEEN BEAMS WHEREVER POSSIBLE.
 7. SEAL ALL PIPING PENETRATIONS IN FIRE-RATED CHASES WITH FIRE-RATED CAULK.

- KEYED NOTES**
- ① ROUTE DRAIN FULL SIZE TO NEAREST FLOOR DRAIN. COORDINATE ROUTING WITH WALKWAYS AND EQUIPMENT ACCESS.
 - ② HWS AND HWR DOWN IN CHASE.
 - ③ CHS, CHR, HWS, AND HWR DOWN IN CHASE.
 - ④ PIPING DOWN THROUGH FLOOR TO ABOVE 4TH FLOOR CEILING.
 - ⑤ HUMIDIFIER SECTION IN DUCT.
 - ⑥ LOW PRESSURE STEAM PIPING. COORDINATE SIZING WITH HUMIDIFIER MANUFACTURER.
 - ⑦ ROUTE 9" CAT. IV VENT UP THRU EXISTING CAPPED ROOF CURB. COORDINATE FLASHING WITH ARCHITECT. PROVIDE APPROVED CAP.
 - ⑧ ROUTE 8" CAT. IV COMBUSTION AIR INLET TO EXISTING 10" INTAKE IN WALL.
 - ⑨ 6" CHS AND CHR DROP TO COOLING COIL.
 - ⑩ 2-1/2" HWS AND HWR DROP TO PREHEAT COIL.
 - ⑪ ROUTE 1" CHS AND CHR, AND 3/4" HWS AND HWR TO SERVE FC-4 HIGH IN ROOM. FAN COIL TO BE SUPPORT FROM ABOVE.
 - ⑫ NEW 6" SPIROTHERM AIR/DIRT SEPARATOR
 - ⑬ 3/4" HWS & HWR DOWN TO ABOVE 4TH FLOOR CEILING.
 - ⑭ EXISTING CHILLED WATER EXPANSION TANK.
 - ⑮ EXISTING HEATING WATER EXPANSION TANK.
 - ⑯ HWP-1 IN VERTICAL.
 - ⑰ HWP-2 IN VERTICAL.
 - ⑱ HWP-3 IN VERTICAL.
 - ⑲ EBTRON GOLD AIRFLOW MEASURING STATION.
 - ⑳ 10" EXHAUST DUCT UP FROM CHASE BELOW.



1 PENTHOUSE PLAN - HVAC
1/8" = 1'-0"

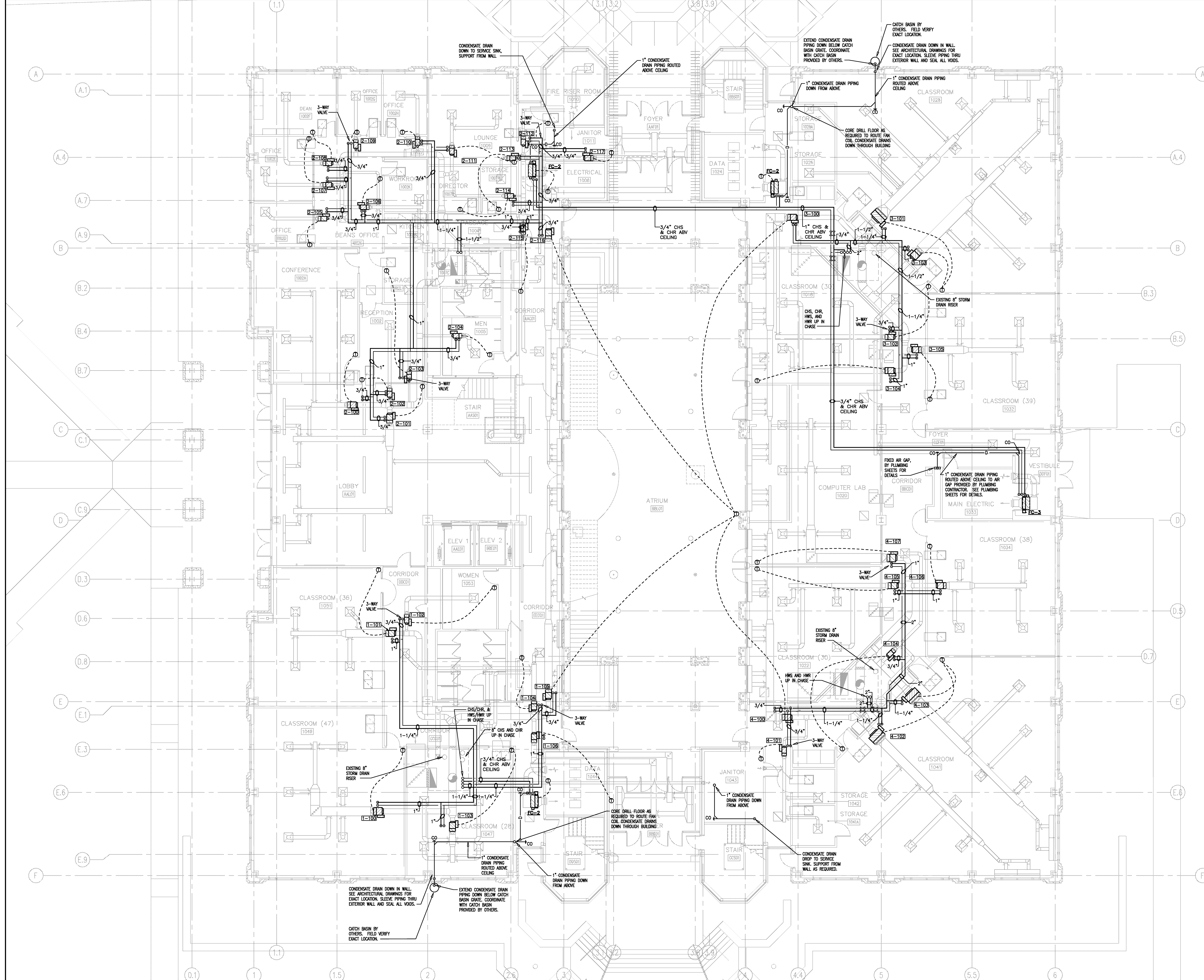
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: FIFTH FLOOR PLAN - HVAC DUCTWORK
Sheet Number: **M1.5**



- GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
 2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
 4. FINAL THERMOSTAT LOCATION TO BE CLOSELY COORDINATED WITH ARCHITECT AND BUILDING FURNITURE LOCATIONS.
 5. ROUTE PIPING TIGHT AGAINST STRUCTURE AND BETWEEN BEAMS WHEREVER POSSIBLE.
 6. SEAL ALL PIPING PENETRATIONS IN FIRE-RATED CHASES WITH FIRE-RATED CAULK.
 7. HWS AND HWR RUNOUTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.

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

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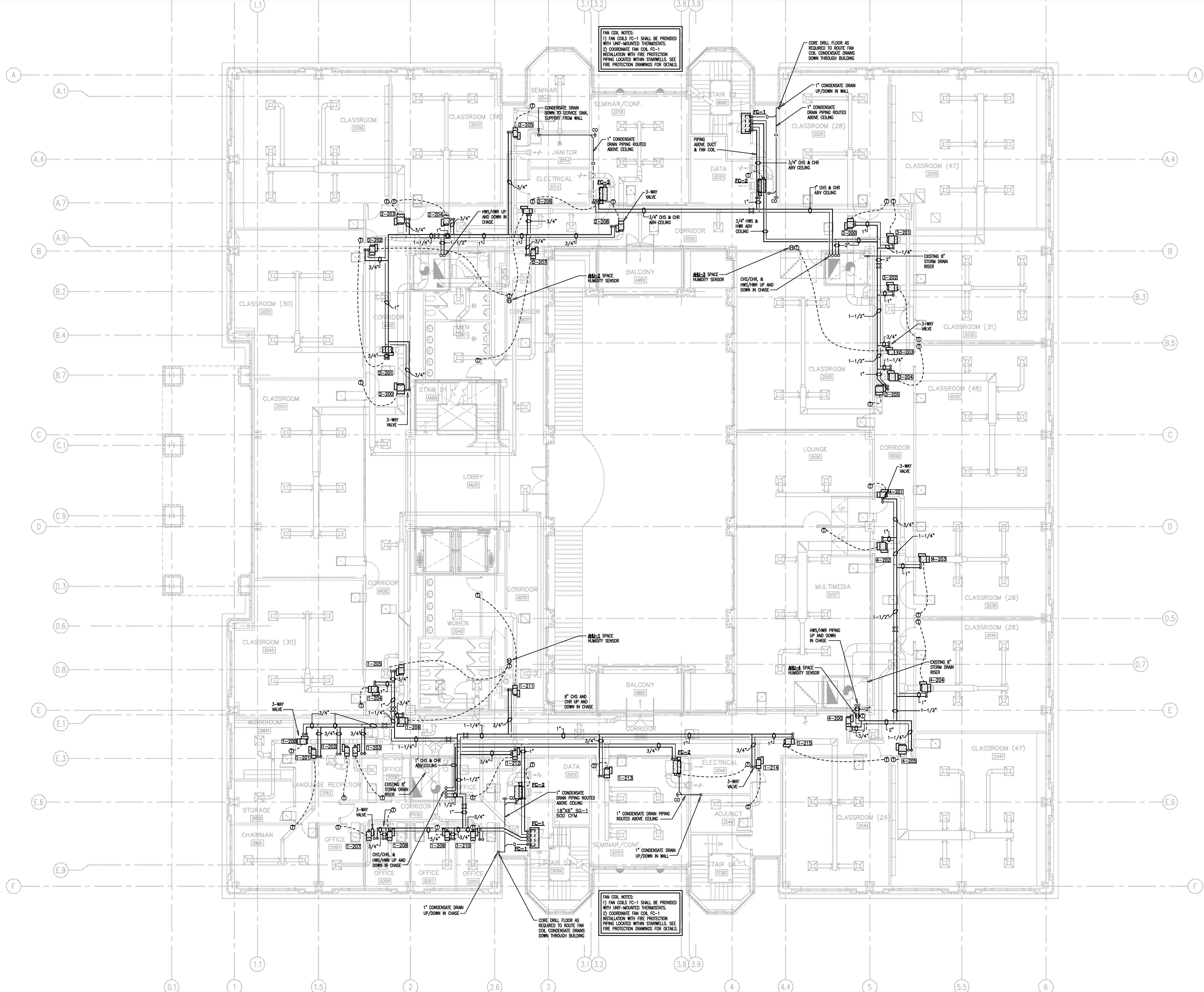
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FIRST FLOOR PLAN - HVAC PIPING
 Sheet Number: **M2.1**





FAN COIL NOTES:
 1) FAN COILS FC-1 SHALL BE PROVIDED WITH UNIT-MOUNTED THERMOSTATS.
 2) COORDINATE FAN COIL FC-1 INSTALLATION WITH FIRE PROTECTION PIPING LOCATED WITHIN STAIRWELLS. SEE FIRE PROTECTION DRAWINGS FOR DETAILS.

FAN COIL NOTES:
 1) FAN COILS FC-1 SHALL BE PROVIDED WITH UNIT-MOUNTED THERMOSTATS.
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 5. ROUTE PIPING TIGHT AGAINST STRUCTURE AND BETWEEN BEAMS WHEREVER POSSIBLE.
 6. SEAL ALL PIPING PENETRATIONS IN FIRE-RATED CHASES WITH FIRE-RATED CALK.
 7. HWS AND HWR RUNOUTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.

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

VERIFY SCALE
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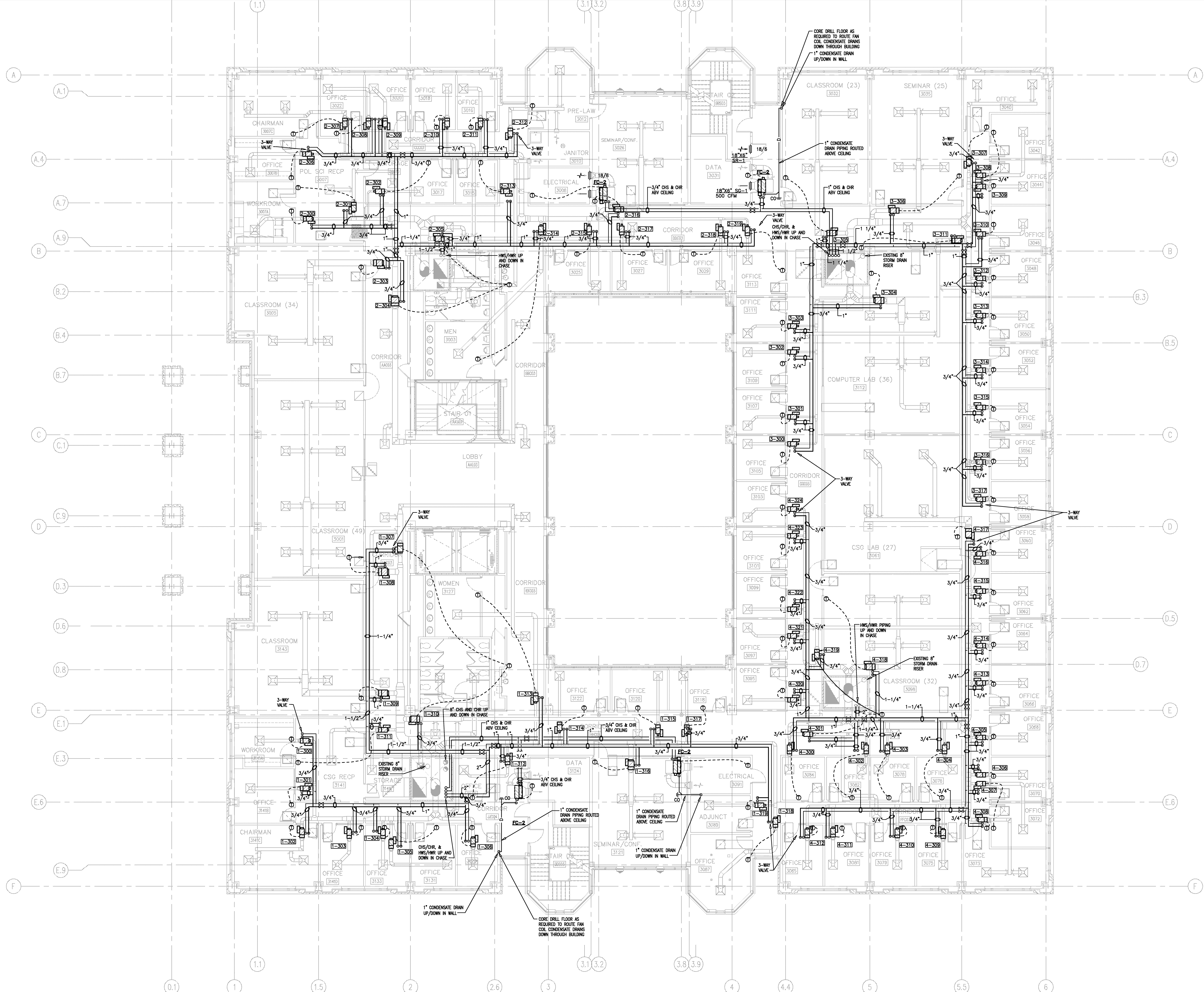
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 Date: October 3, 2013
 Title: SECOND FLOOR PLAN - HVAC PIPING
 Sheet Number: **M2.2**



- GENERAL NOTES**
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
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 7. HWS AND HWR RUNOUTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.

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

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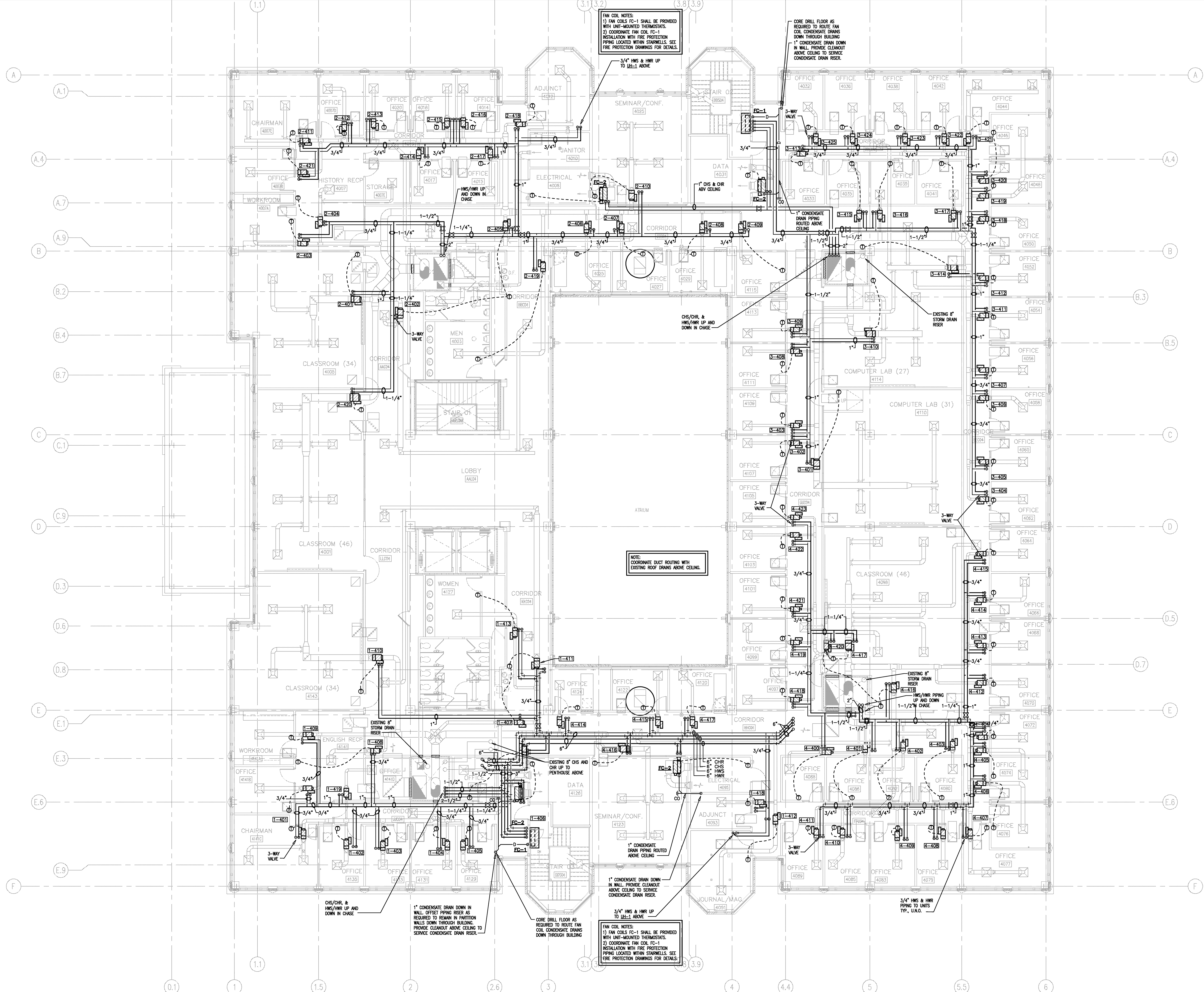
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: THIRD FLOOR PLAN - HVAC PIPING
 Sheet Number: **M2.3**



FAN COIL NOTES:
 1) FAN COILS FC-1 SHALL BE PROVIDED WITH UNIT-MOUNTED THERMOSTATS.
 2) COORDINATE FAN COIL FC-1 INSTALLATION WITH FIRE PROTECTION PIPING LOCATED WITHIN STAIRWELLS. SEE FIRE PROTECTION DRAWINGS FOR DETAILS.

CORE DRILL FLOOR AS REQUIRED TO ROUTE FAN COIL CONDENSATE DRAINS DOWN THROUGH BUILDING.
 1" CONDENSATE DRAIN DOWN IN WALL. PROVIDE CLEANOUT ABOVE CEILING TO SERVICE CONDENSATE DRAIN RISER.

NOTE:
 COORDINATE DUCT ROUTING WITH EXISTING ROOF DRAINS ABOVE CEILING.

FAN COIL NOTES:
 1) FAN COILS FC-1 SHALL BE PROVIDED WITH UNIT-MOUNTED THERMOSTATS.
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1 FOURTH FLOOR PLAN - HVAC PIPING
 1/8" = 1'-0"

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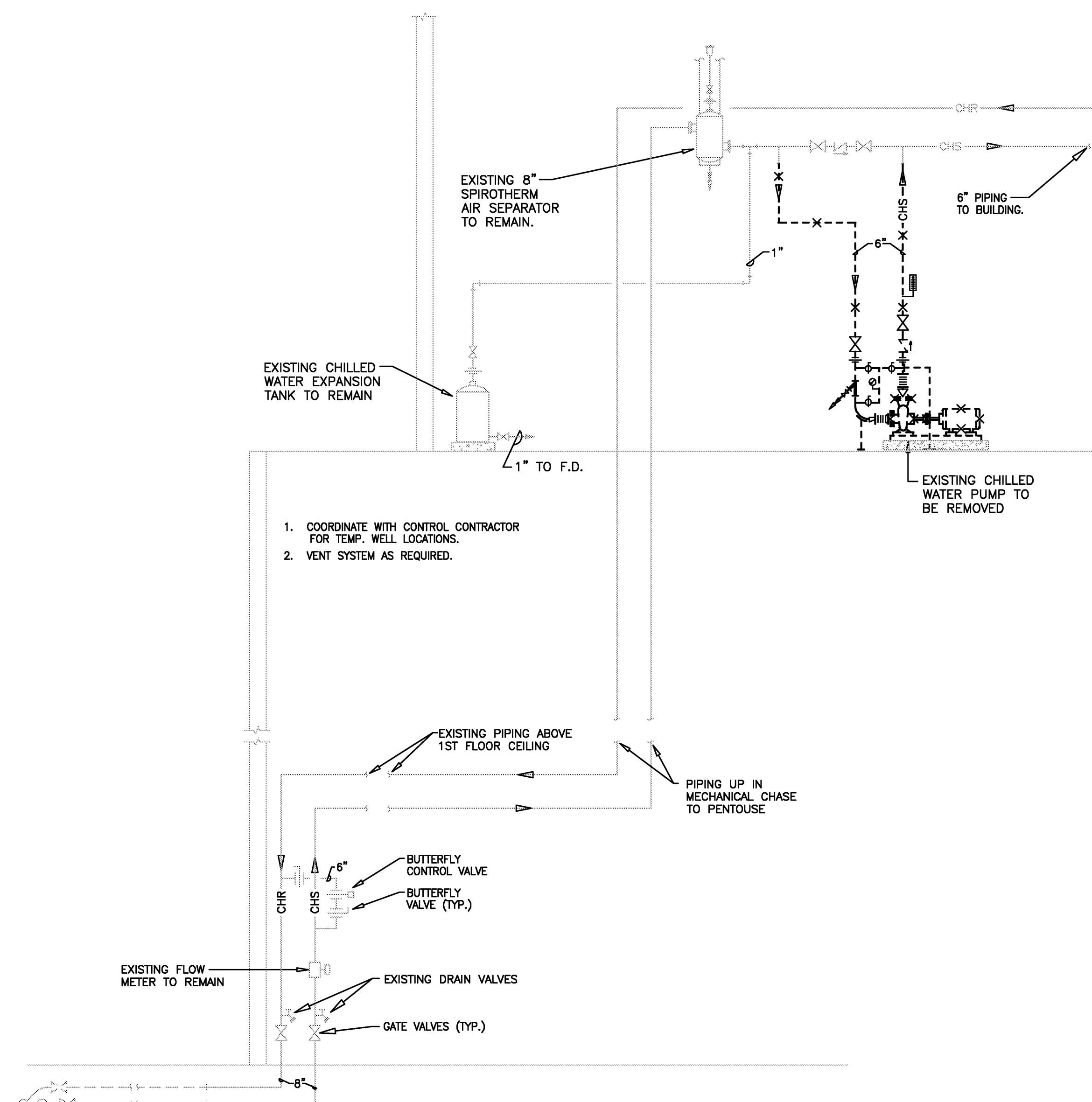


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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: FOURTH FLOOR PLAN - HVAC PIPING
 Sheet Number: **M2.4**

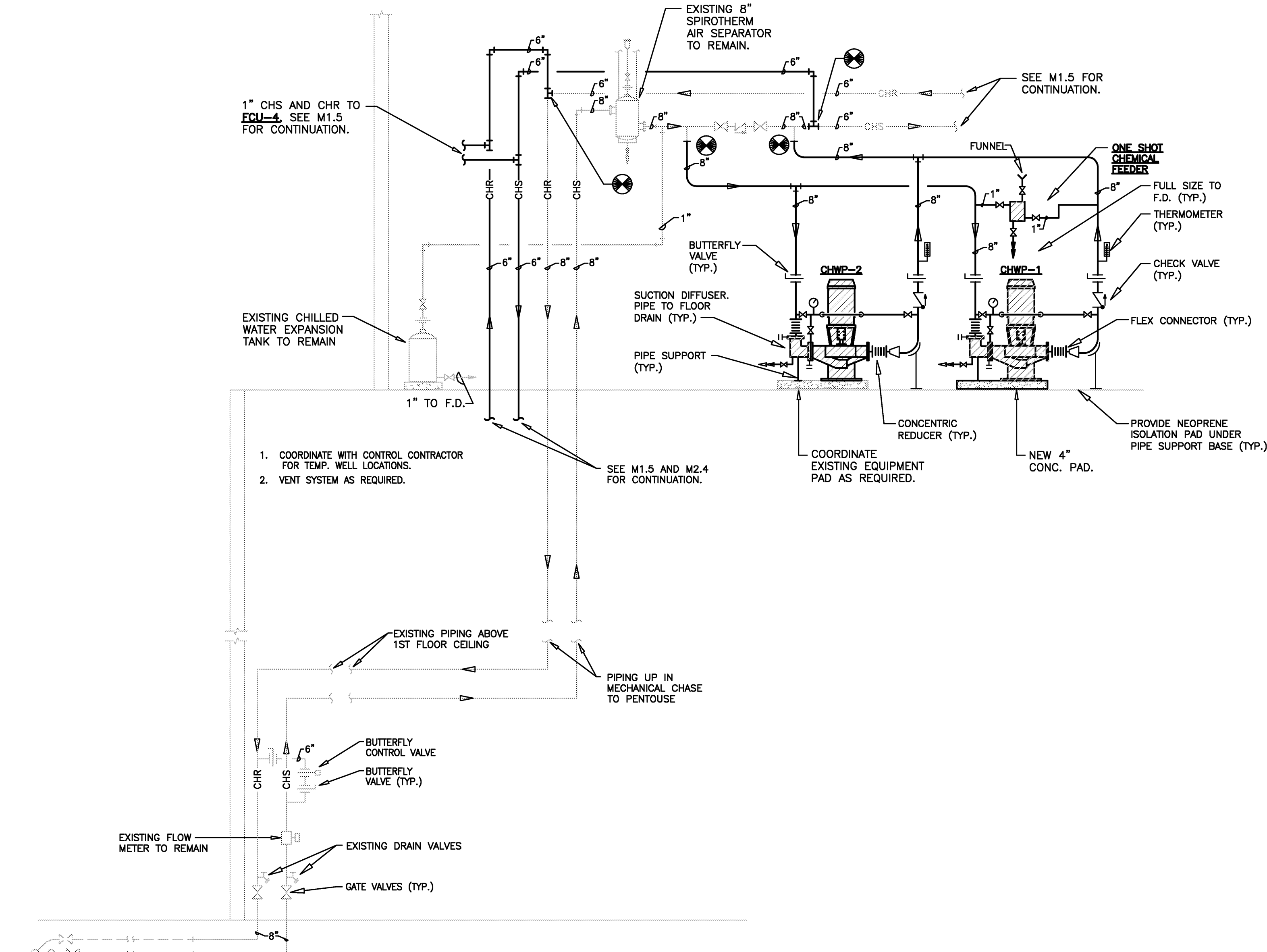


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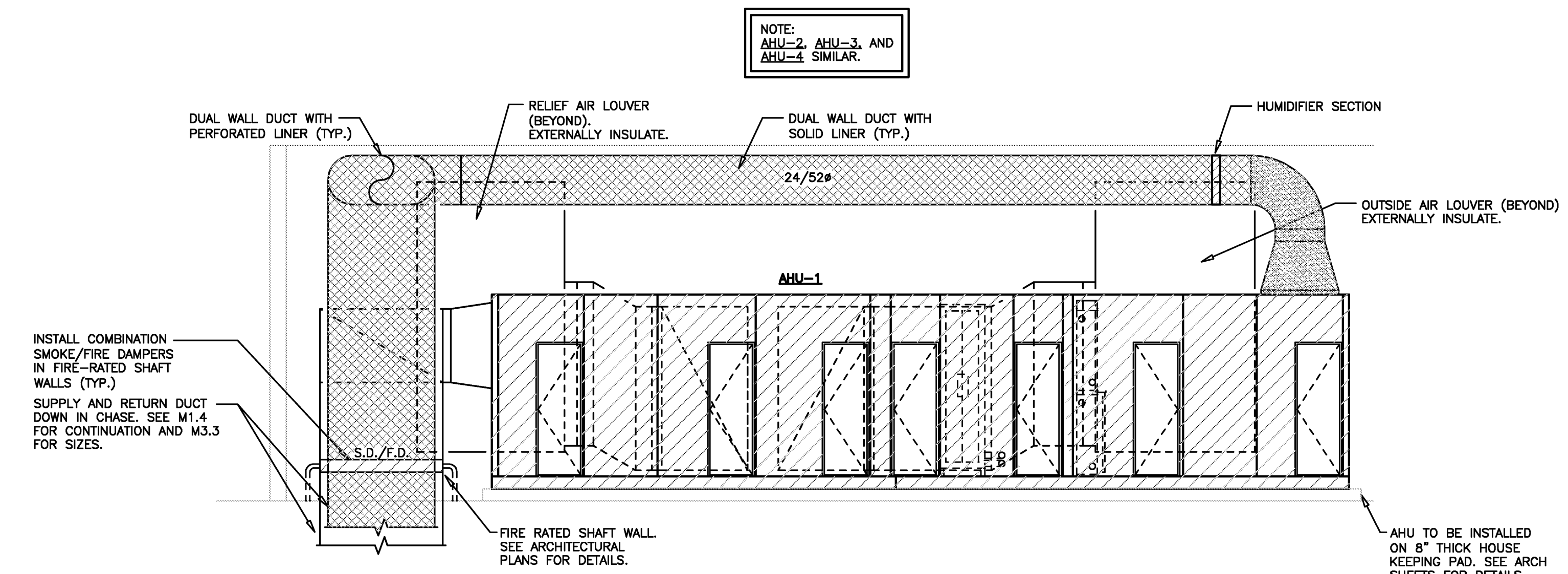
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1 DEMO CHILLED WATER SYSTEM RISER DIAGRAM
N.T.S.



2 CHILLED WATER SYSTEM RISER DIAGRAM
N.T.S.



3 AIR HANDLER (AHU-1) ELEVATION
1/4"=1'-0"

VERIFY SCALE
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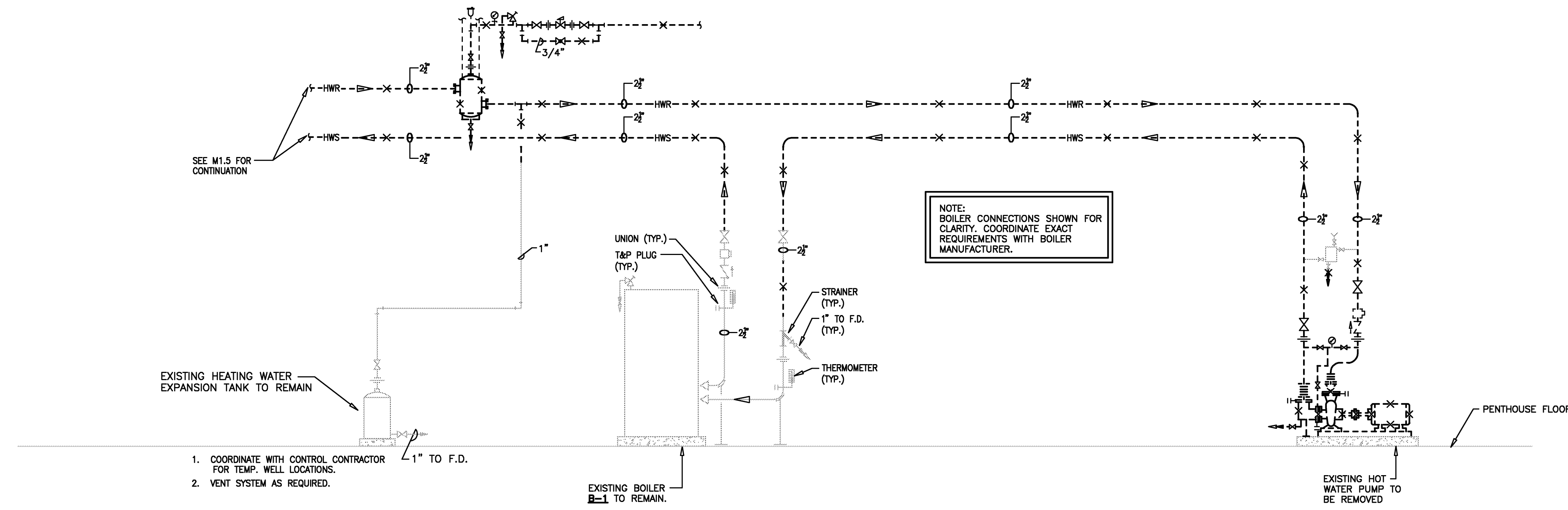
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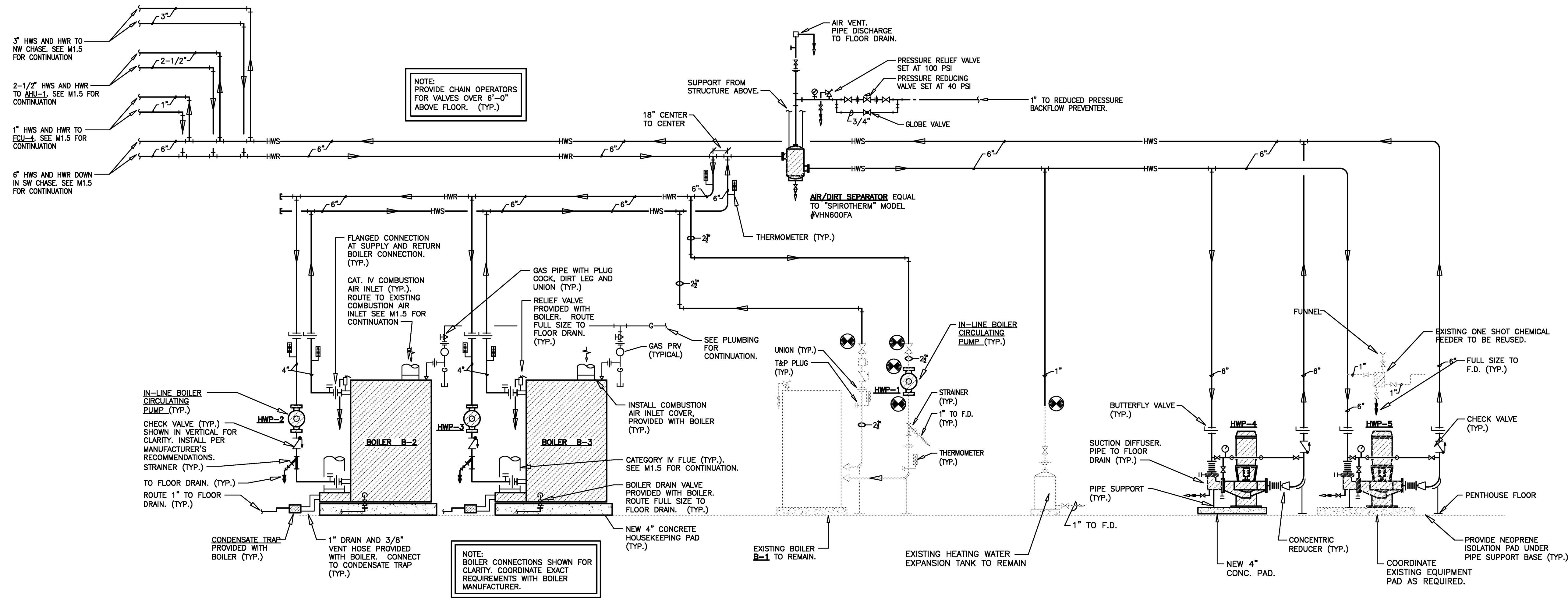
PROJECT: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: HVAC RISER DIAGRAMS AND SECTIONS



Sheet Number: **M3.1**



1 DEMO HEATING WATER SYSTEM RISER DIAGRAM
N.T.S.



2 HEATING WATER SYSTEM RISER DIAGRAM
N.T.S.

1. COORDINATE WITH CONTROL CONTRACTOR FOR TEMP. WELL LOCATIONS.
2. VENT SYSTEM AS REQUIRED.

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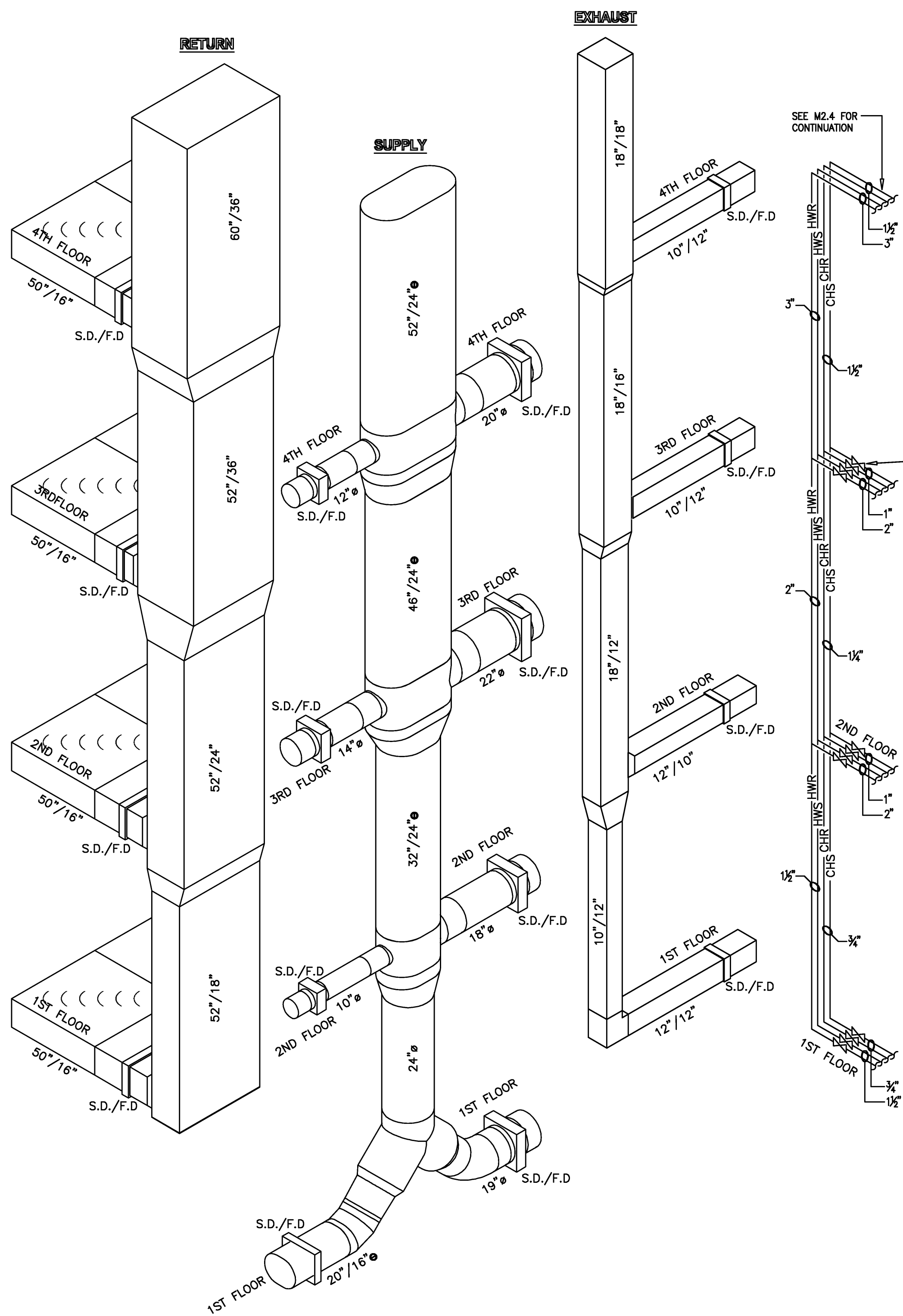
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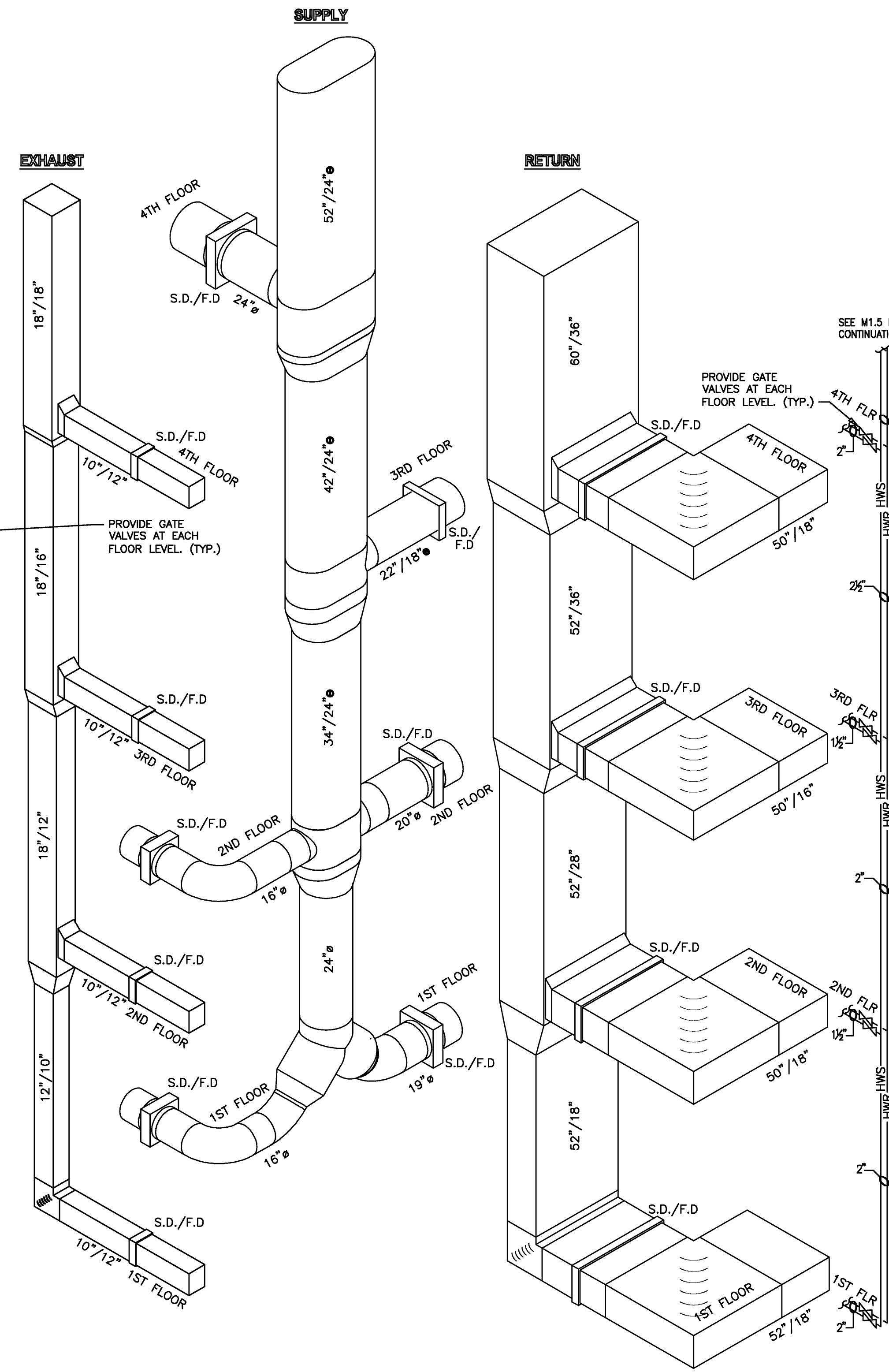
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Location: Jonesboro, AR
Date: October 3, 2013
Title: HVAC RISER DIAGRAMS AND SECTIONS
Sheet Number: **M3.2**

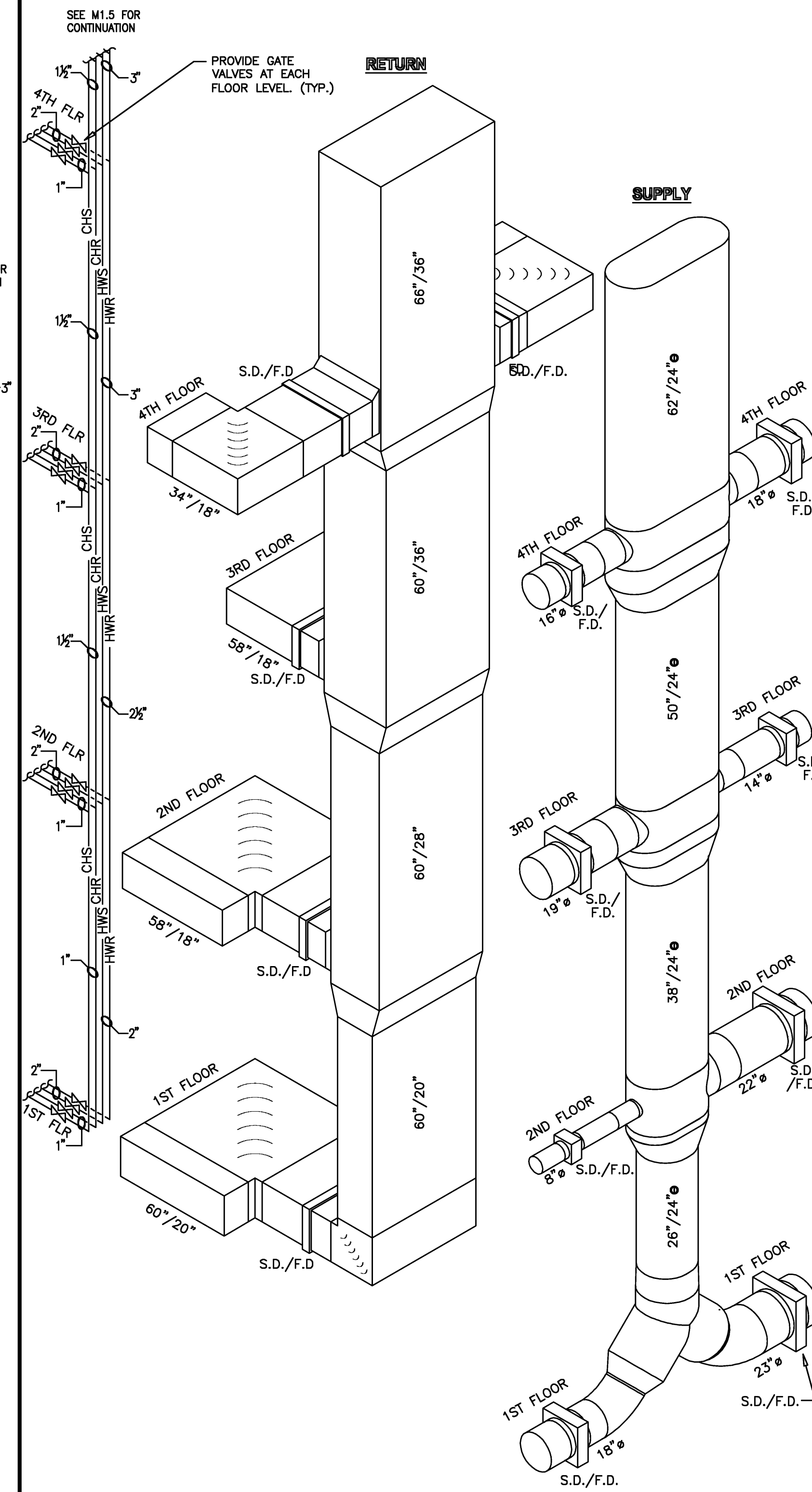
NOTE:
RISERS ARE NOT TO SCALE AND
SHOWN FOR CLARITY ONLY. SEE
MECHANICAL SHEETS FOR SIZES
AND LOCATIONS.



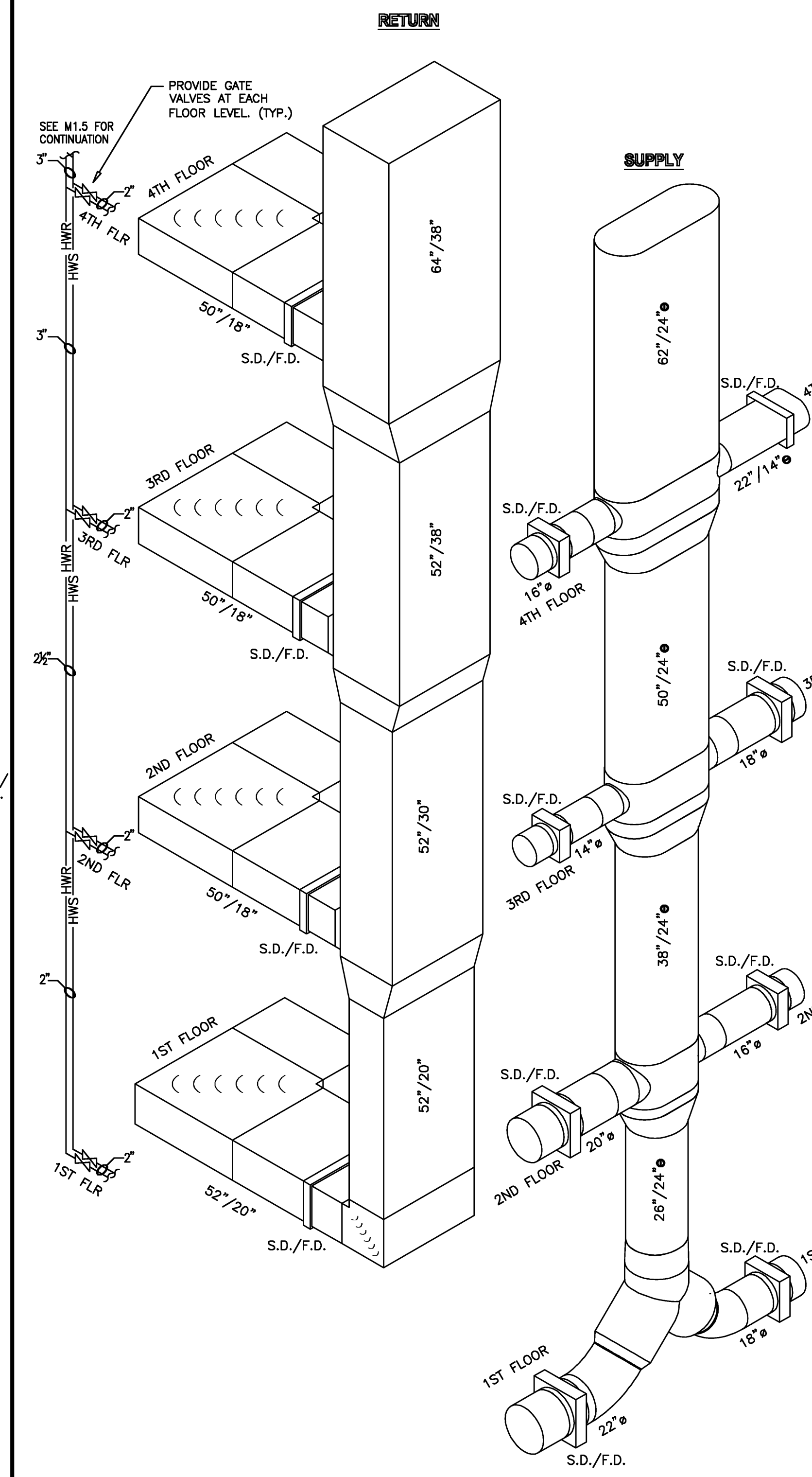
**1 SW CHASE -
DUCT & PIPING RISER DIAGRAM**
N.T.S.



**2 NW CHASE -
DUCT & PIPING RISER DIAGRAM**
N.T.S.



**3 NE CHASE -
DUCT & PIPING RISER DIAGRAM**
N.T.S.



**4 SE CHASE -
DUCT & PIPING RISER DIAGRAM**
N.T.S.

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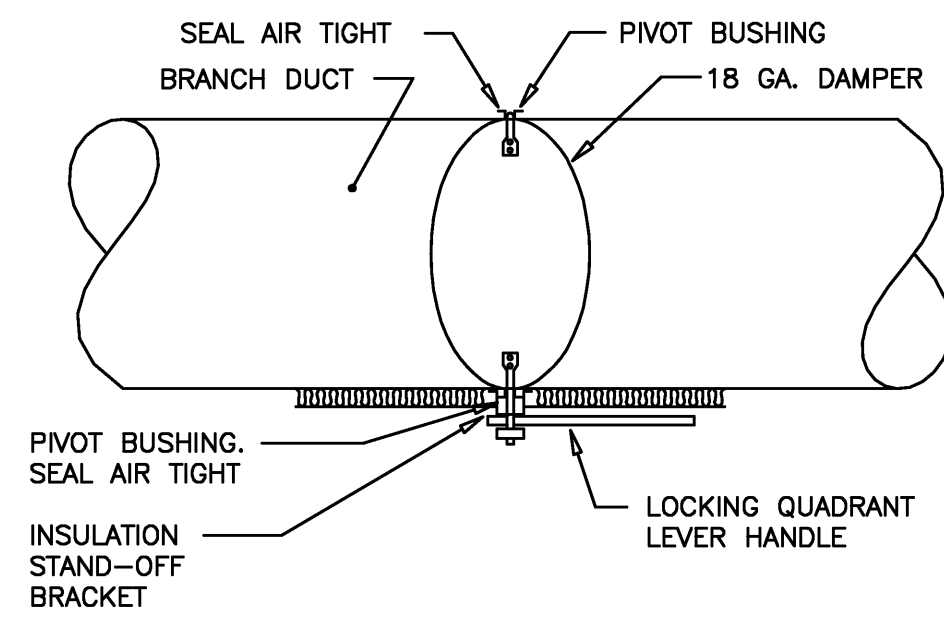
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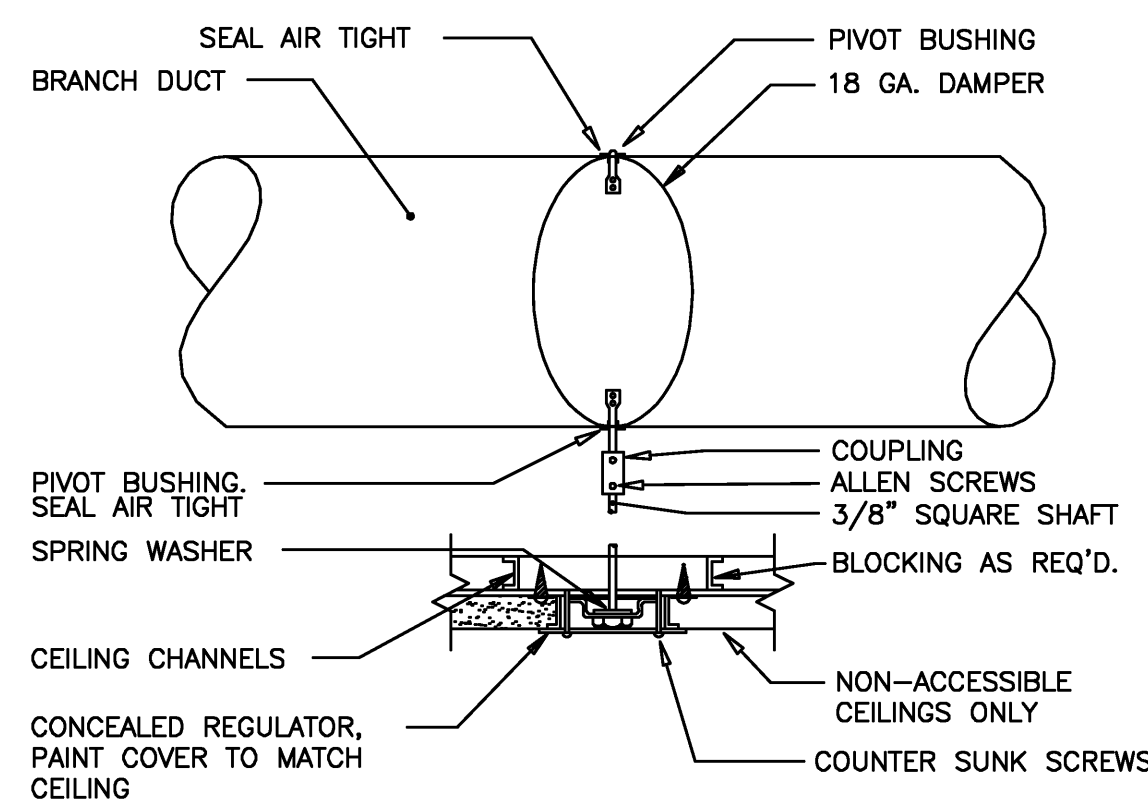
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Location: Jonesboro, AR
Date: October 3, 2013
Title: HVAC RISER DIAGRAMS
Sheet Number: **M3.3**





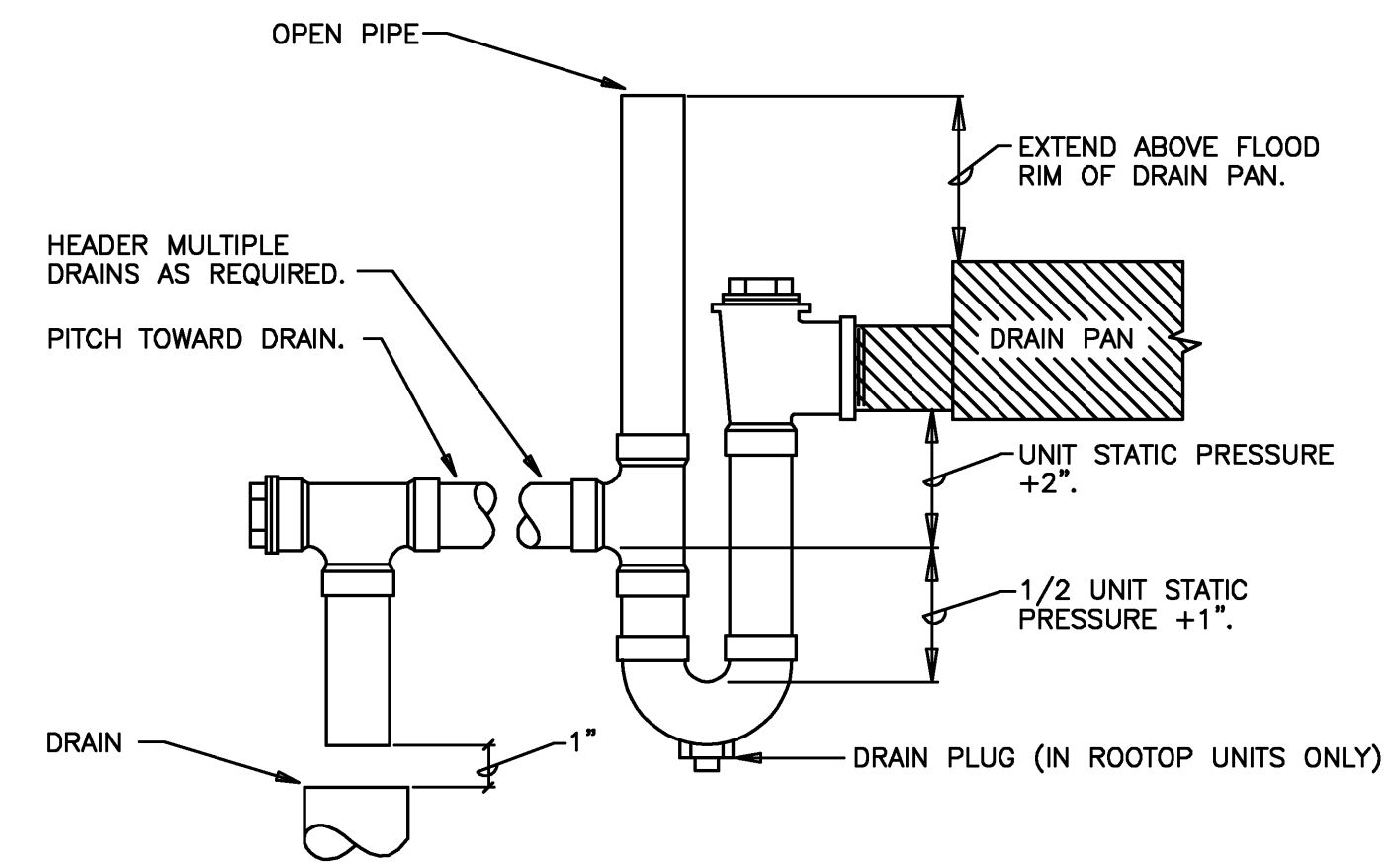
ABOVE ACCESSIBLE CEILINGS

1 MANUAL DAMPER OPERATOR DETAIL
N.T.S.

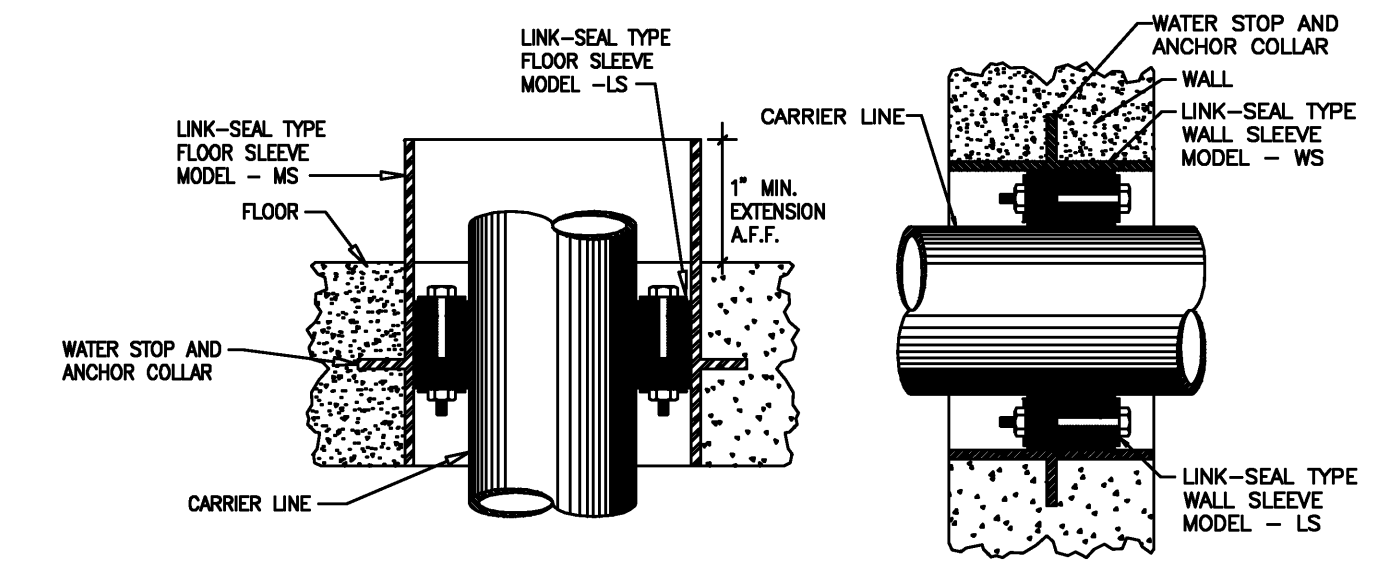


ABOVE NON-ACCESSIBLE CEILINGS

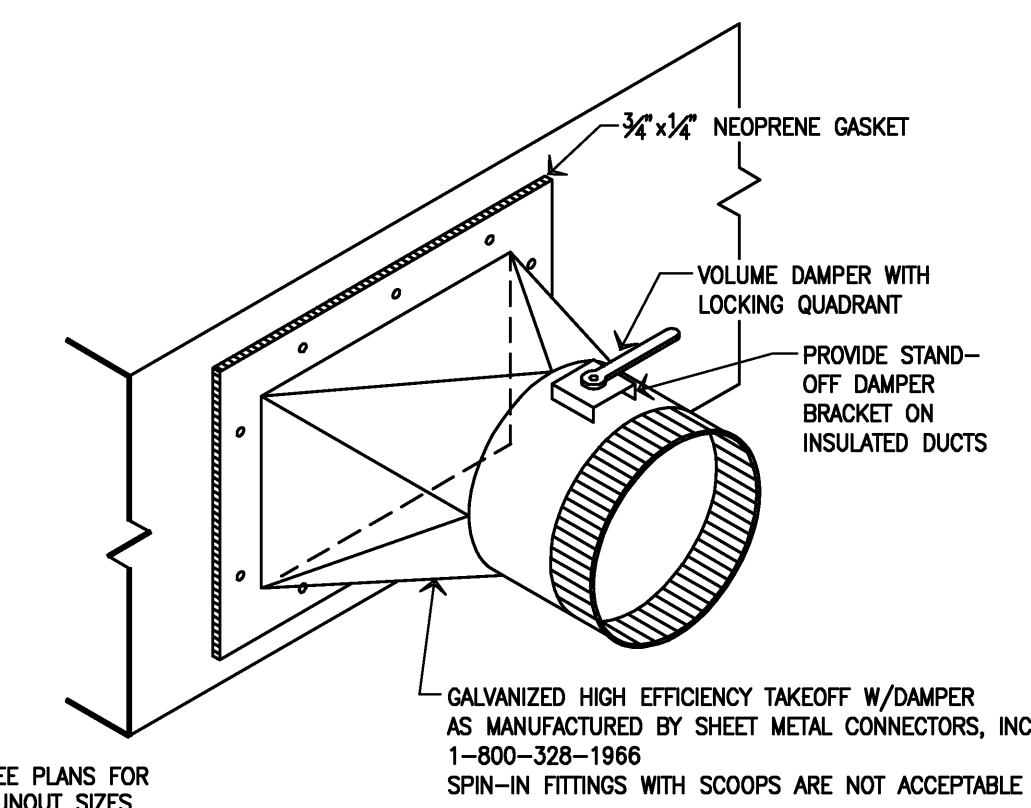
2 MANUAL DAMPER OPERATOR DETAIL
N.T.S.



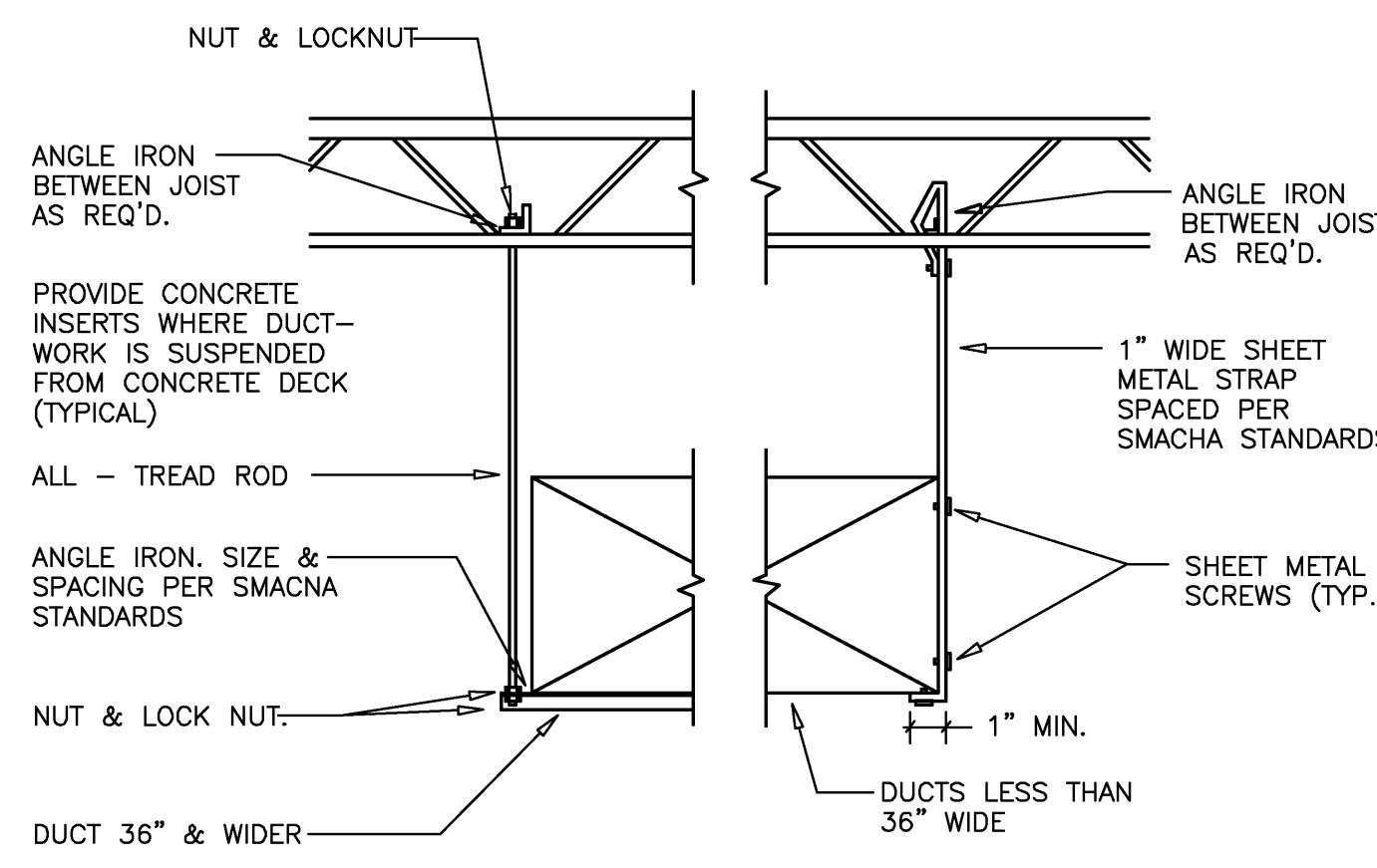
3 A.H.U. AND FAN COIL DRAIN PIPING
N.T.S.



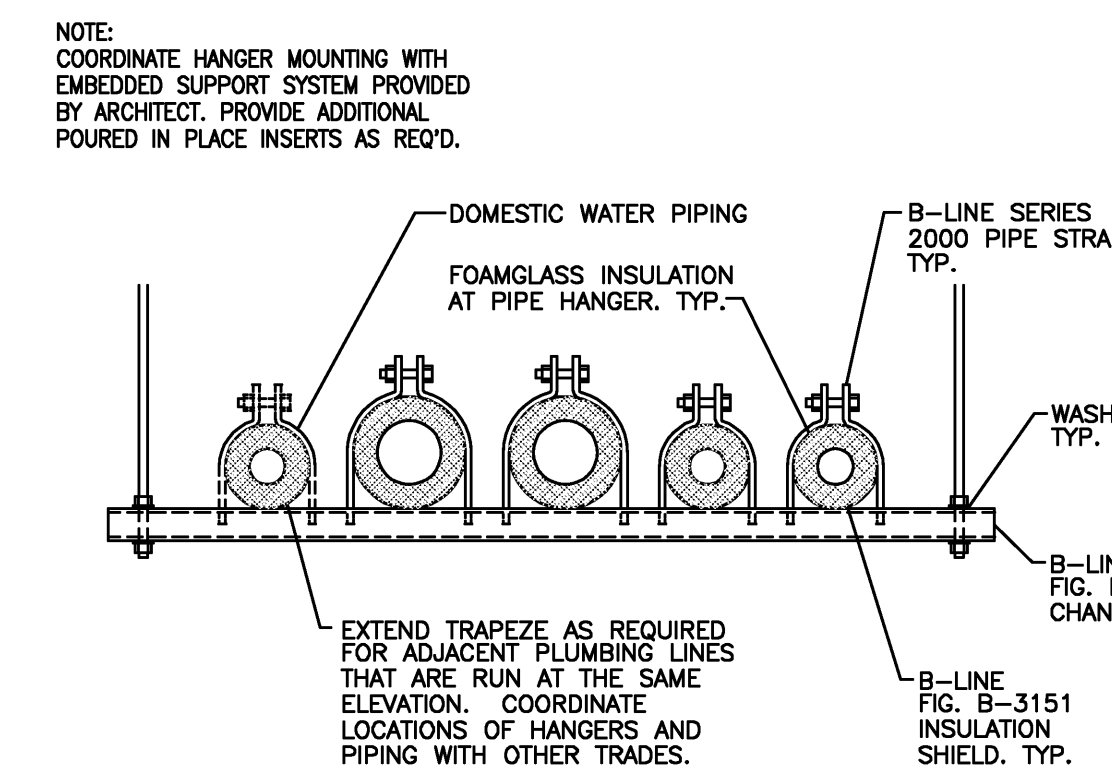
4 WATERPROOF SLEEVE DETAIL
N.T.S.
(TYPICAL FOR ALL PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)



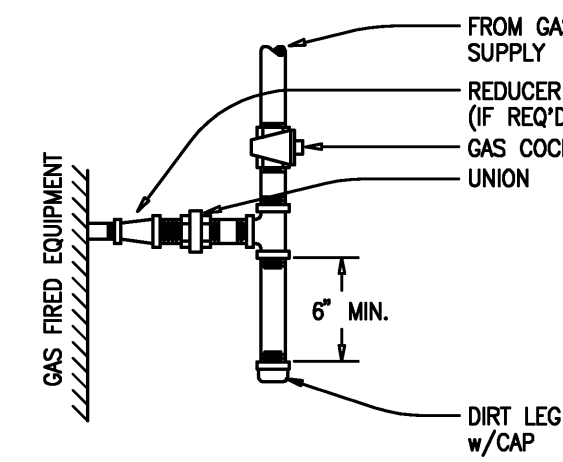
5 BRANCH DUCT TAP FITTING
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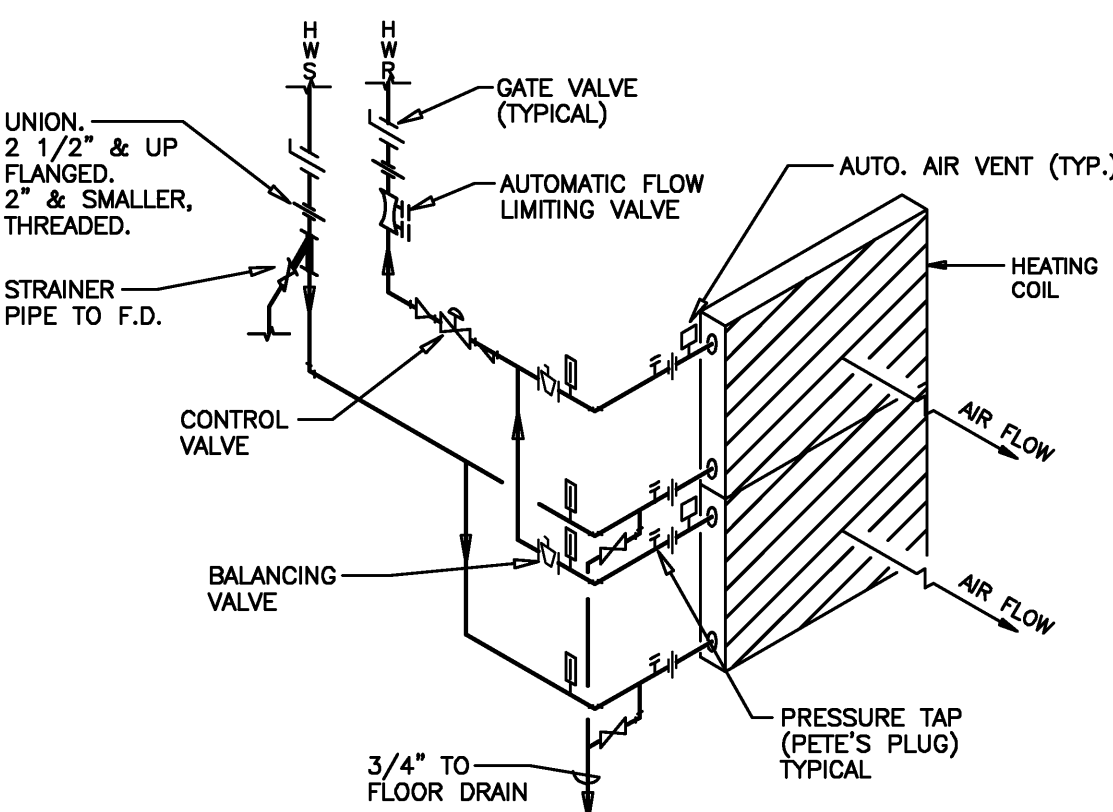
6 DUCT SUPPORT DETAIL
(CHILLER BUILDING)
N.T.S.



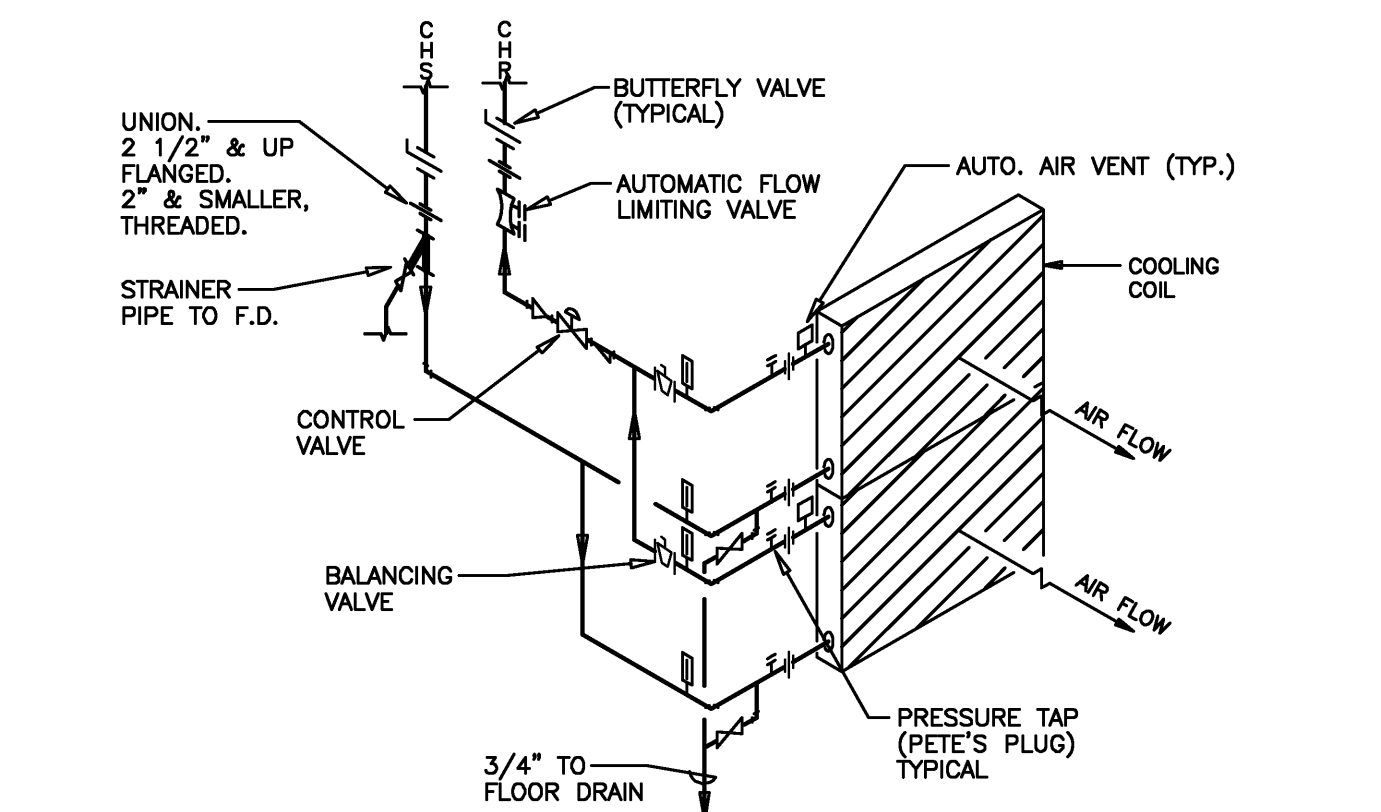
7 PIPE HANGER DETAIL
N.T.S.



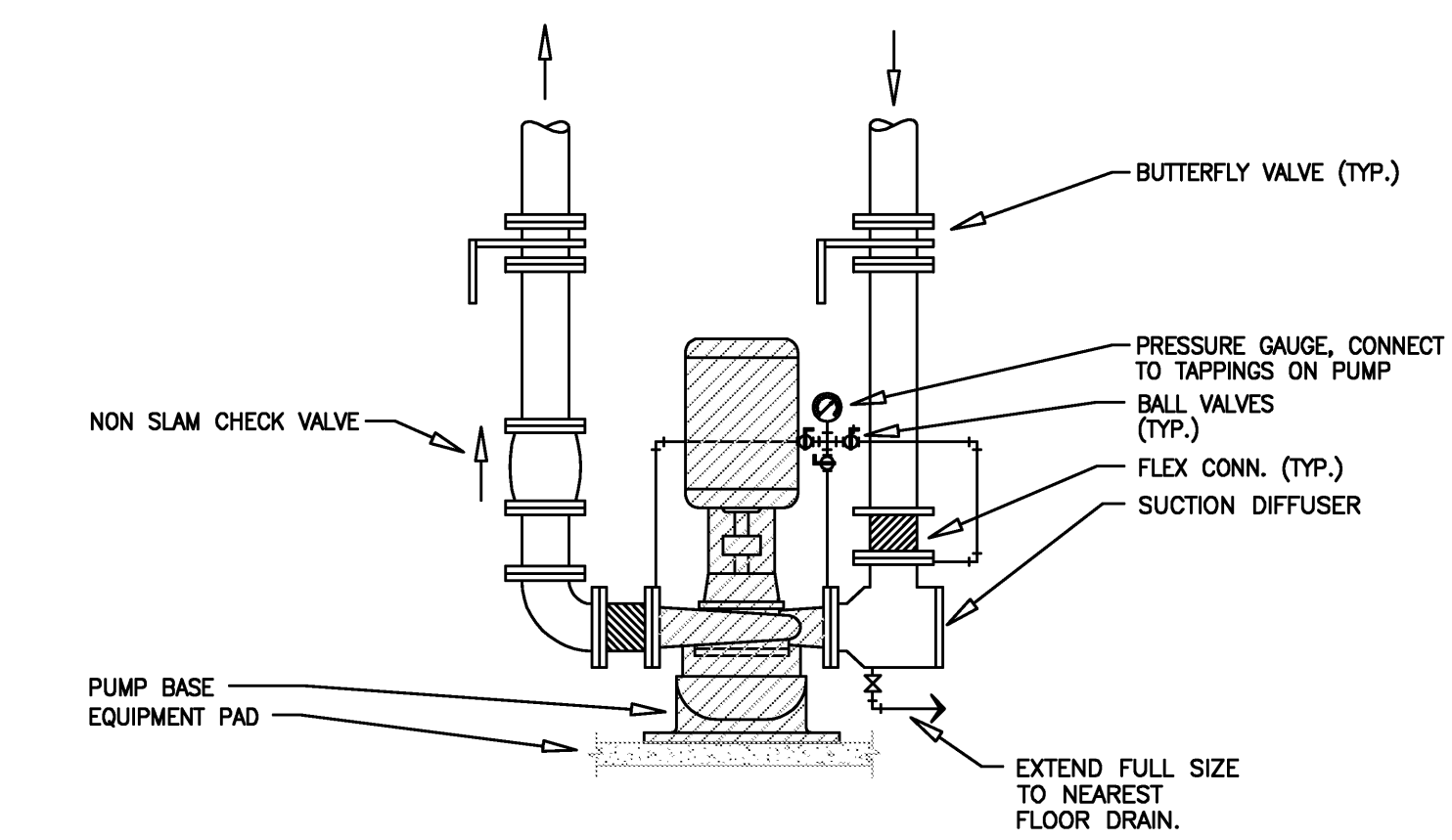
8 TYPICAL GAS CONNECTION
N.T.S.



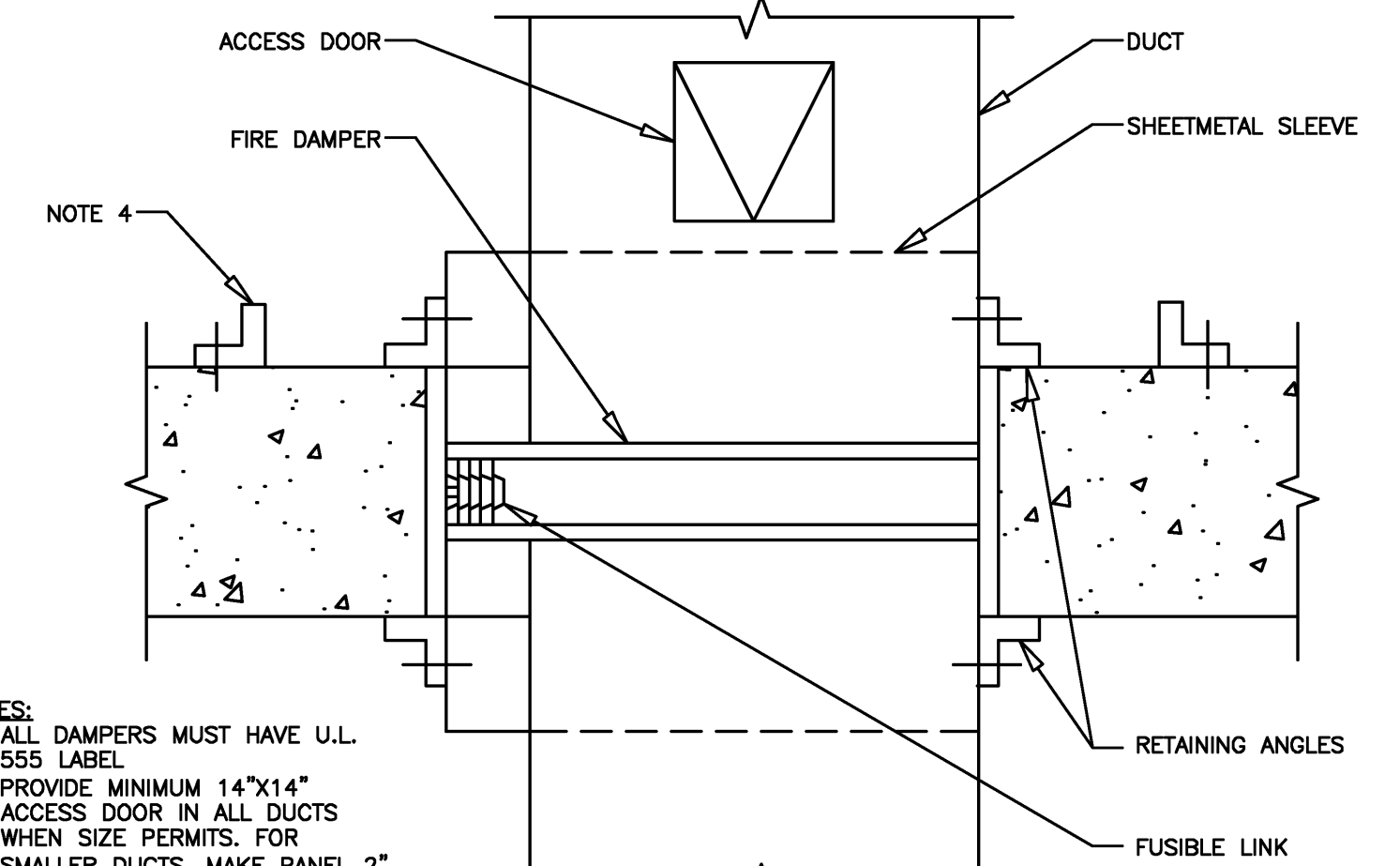
9 HOT WATER COIL PIPING DETAIL
N.T.S.



10 HOT WATER COIL PIPING DETAIL
N.T.S.

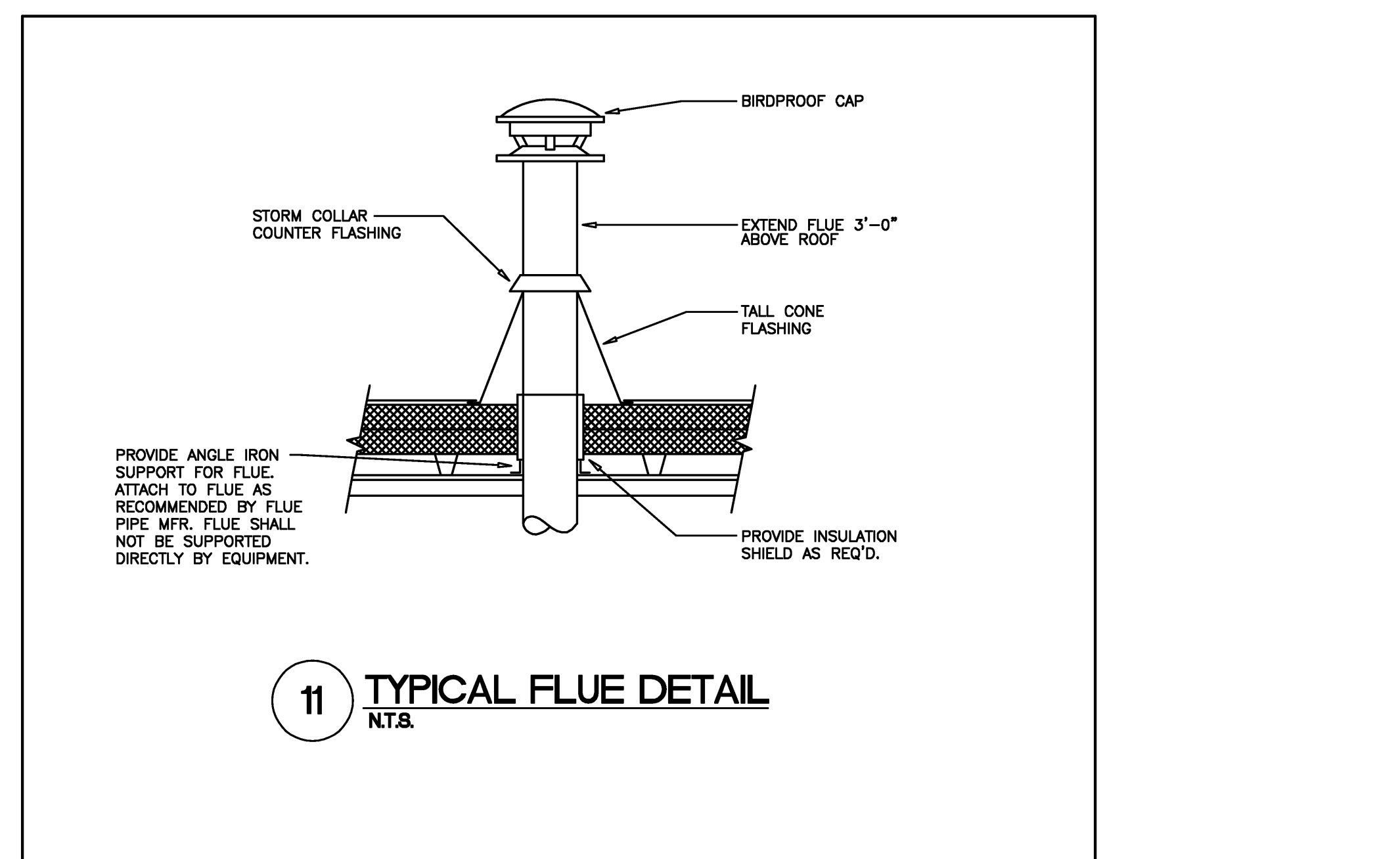
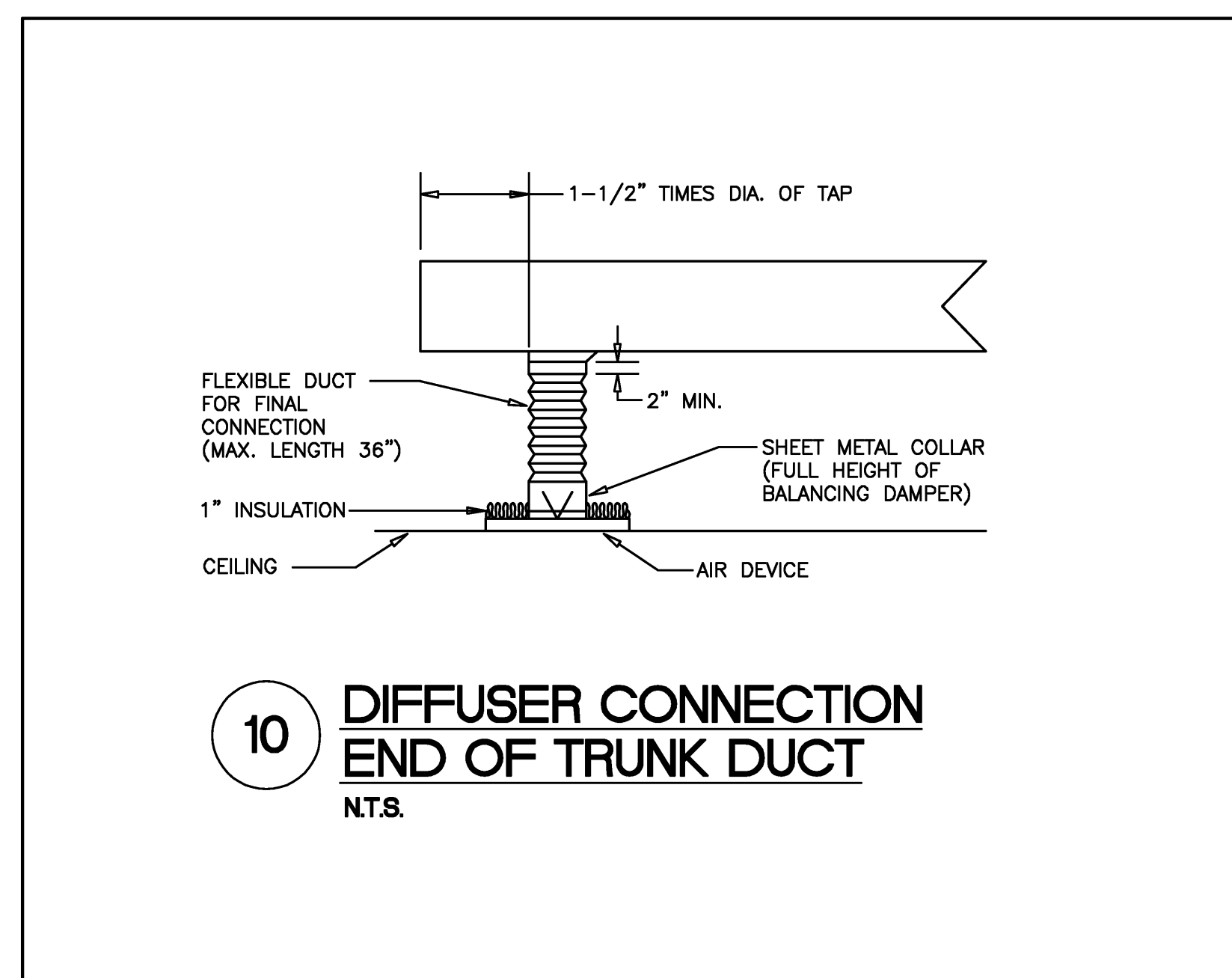
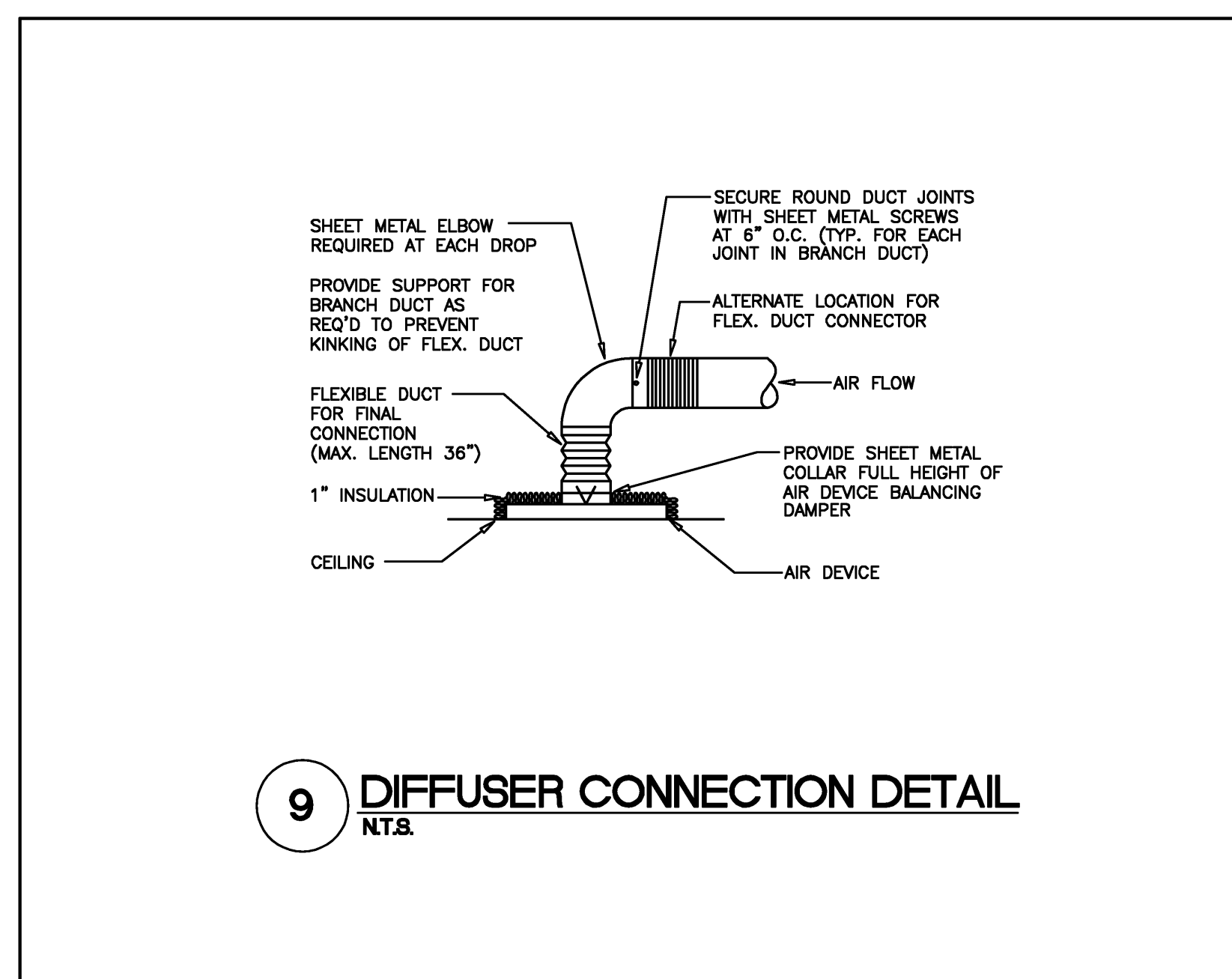
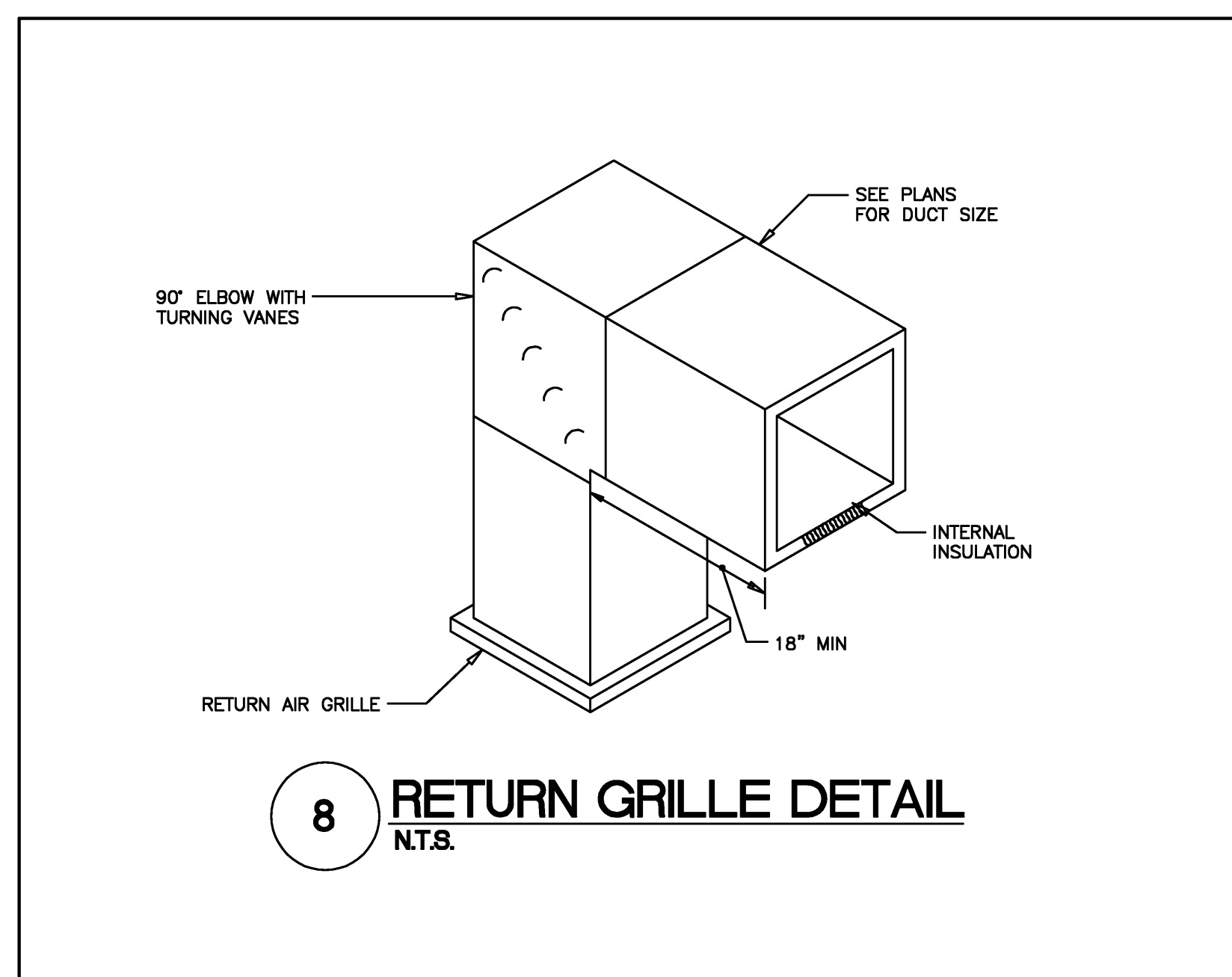
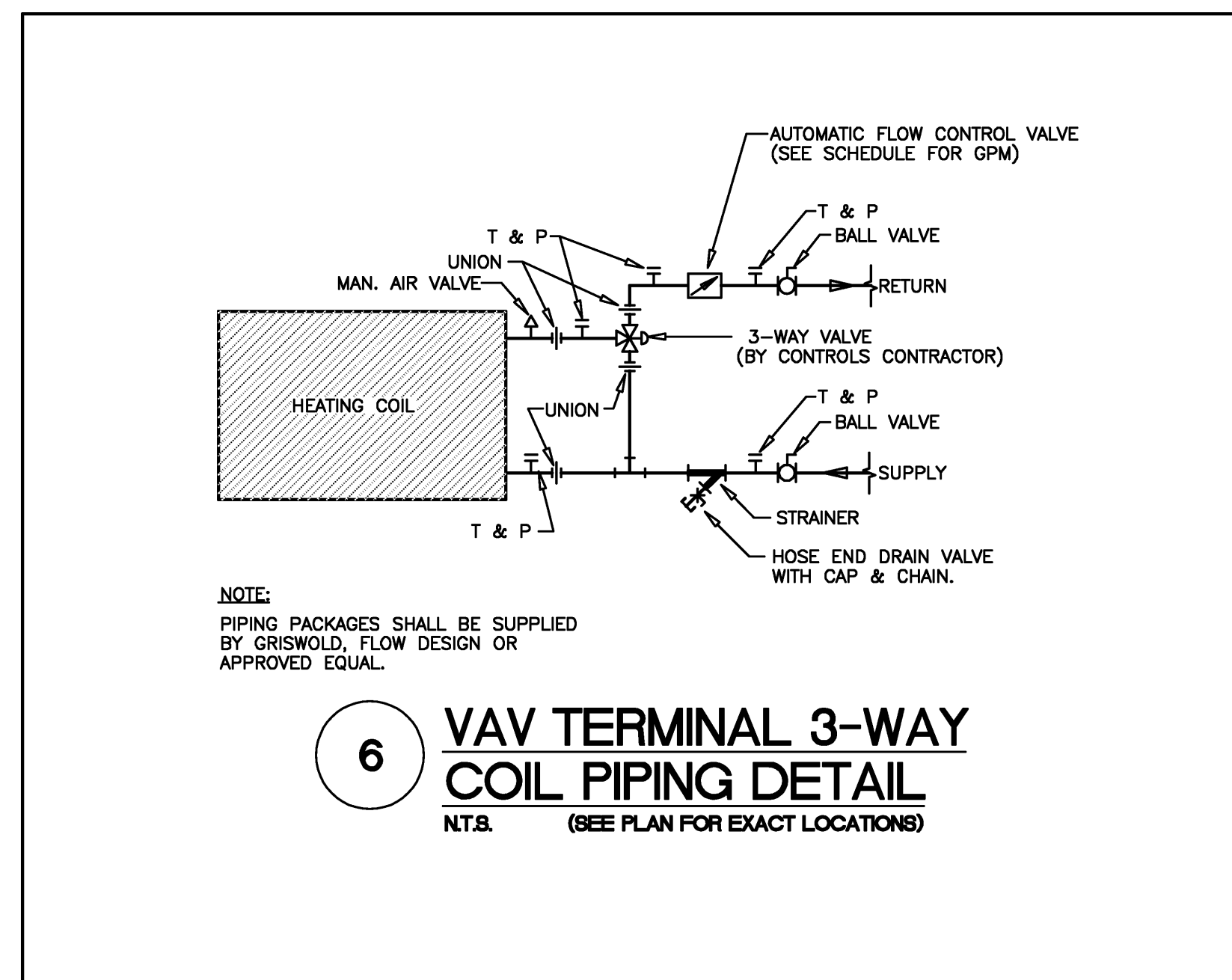
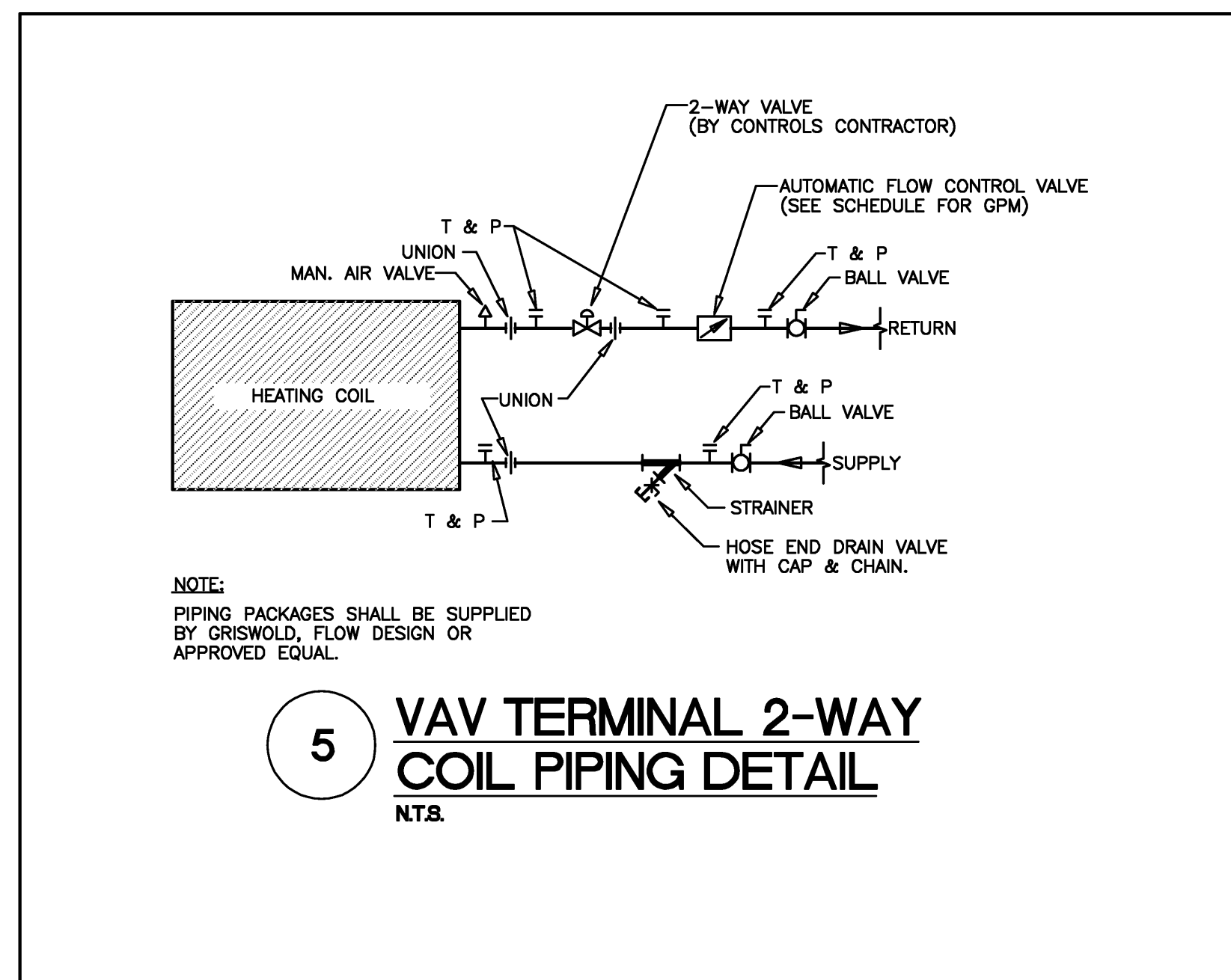
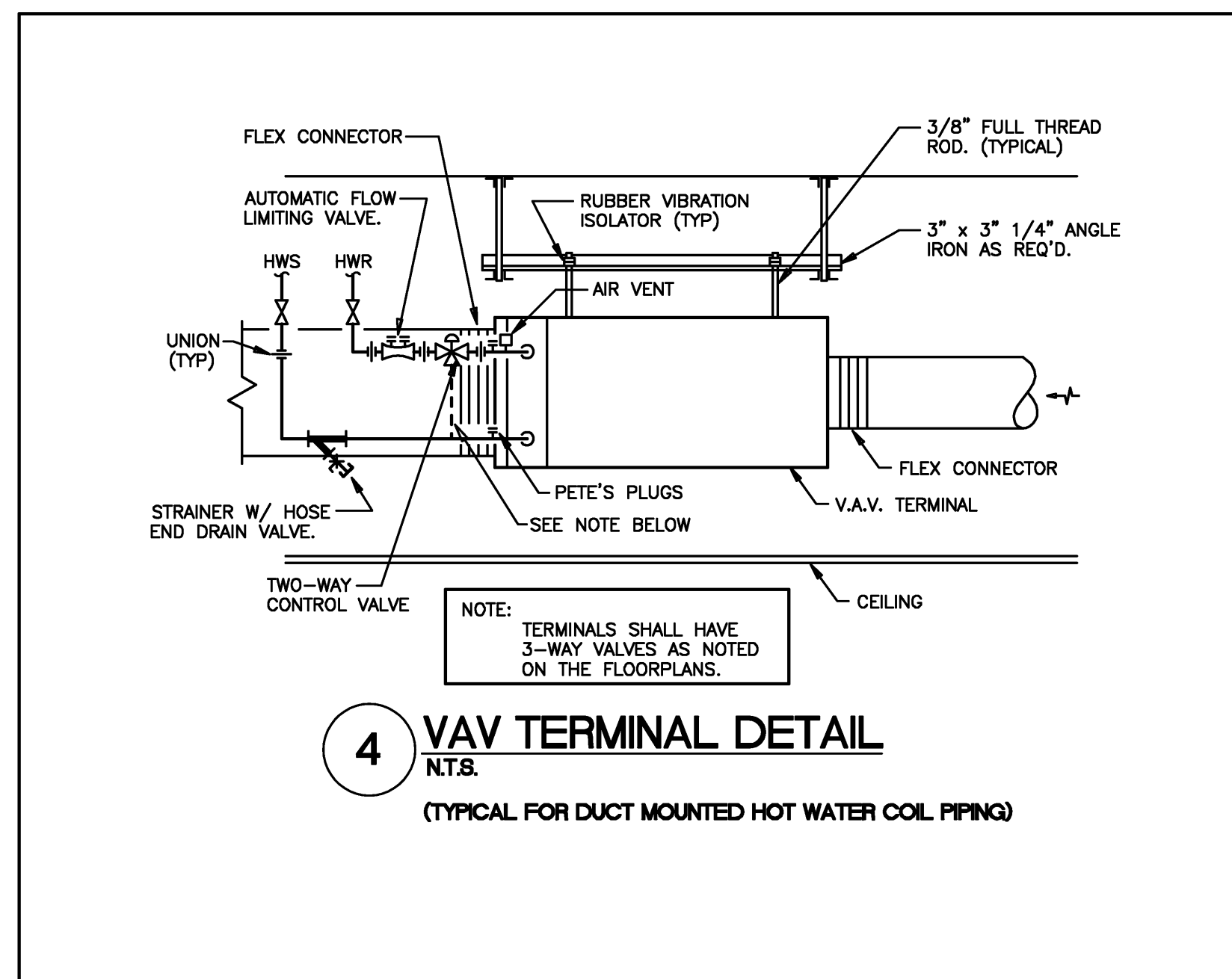
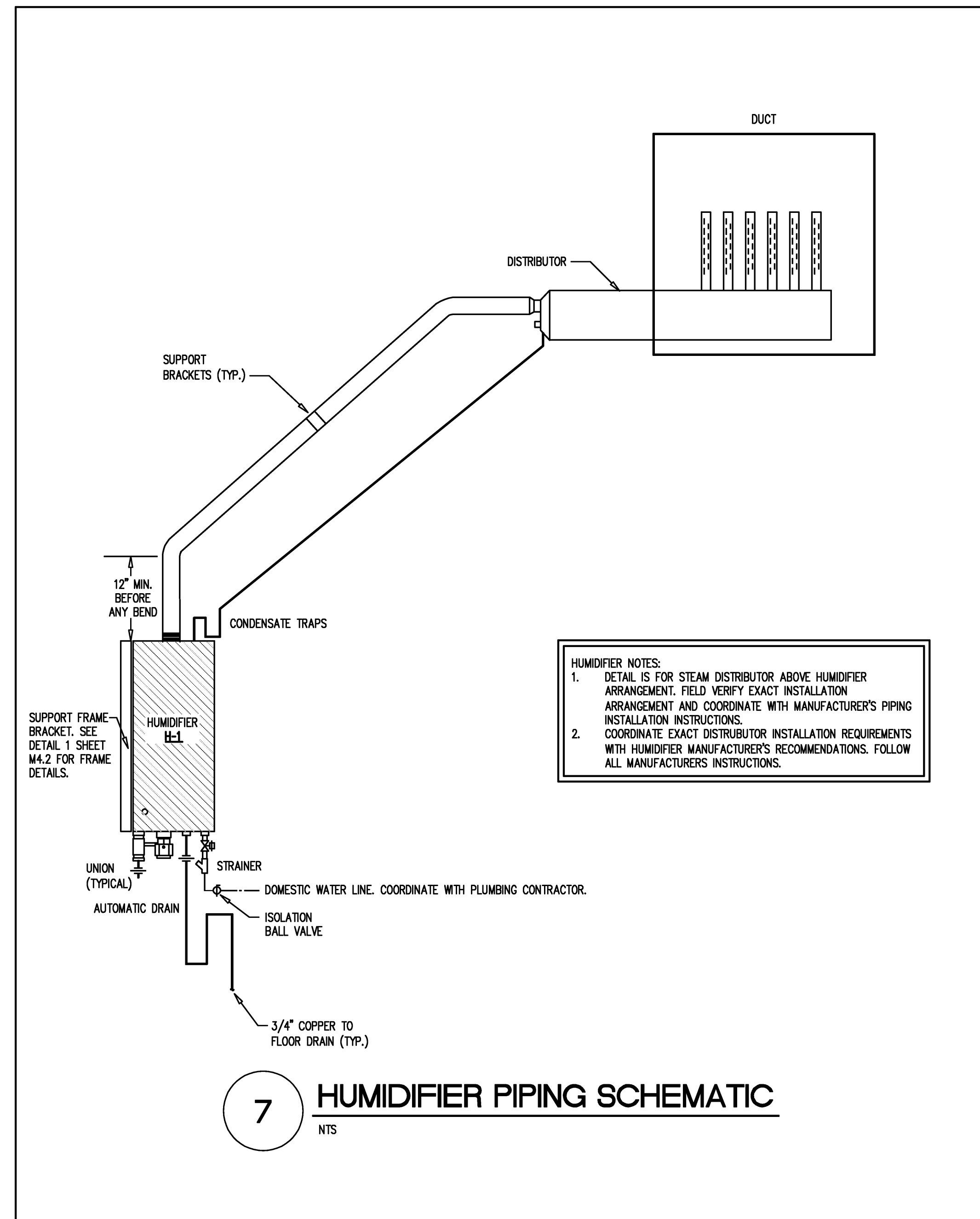
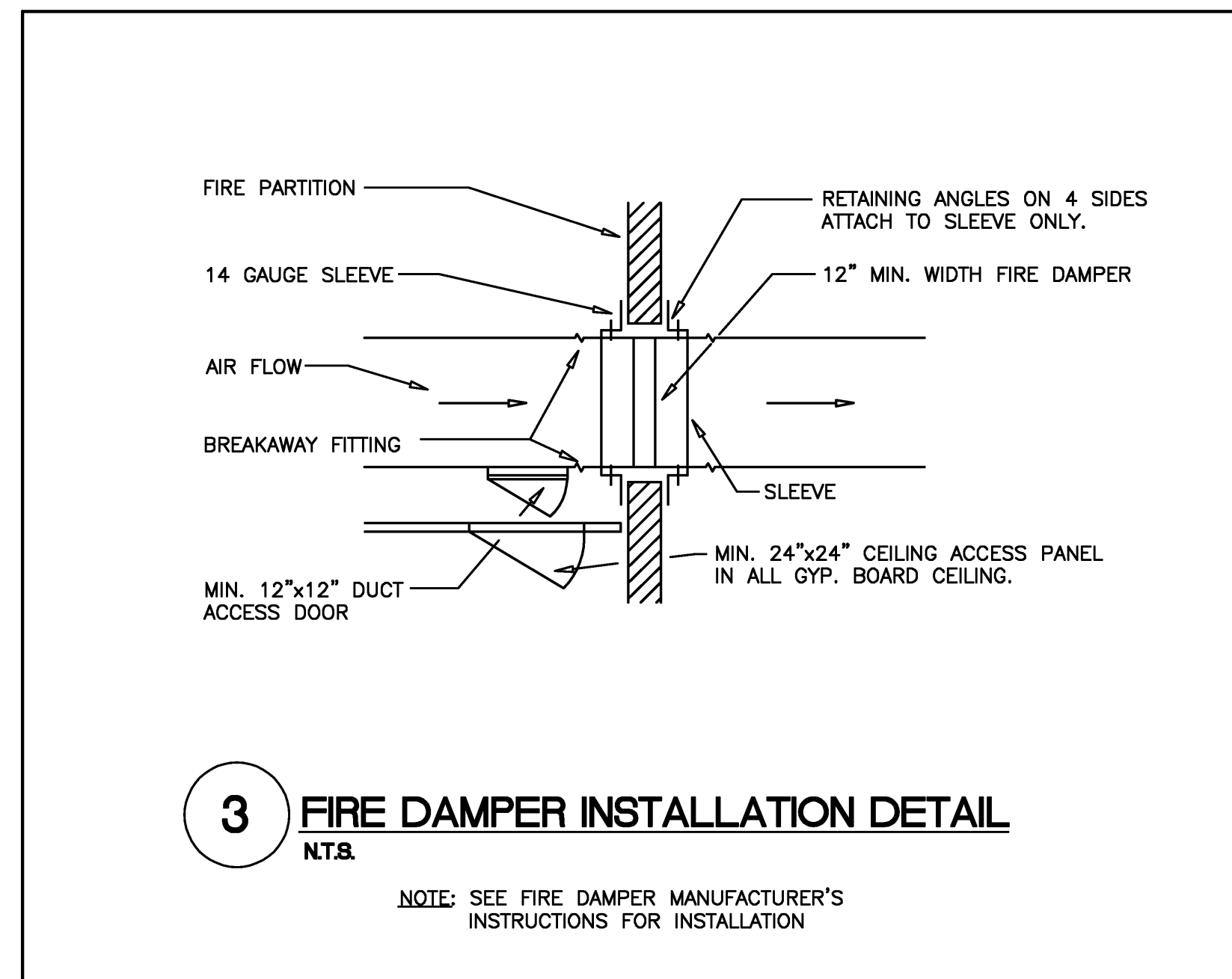
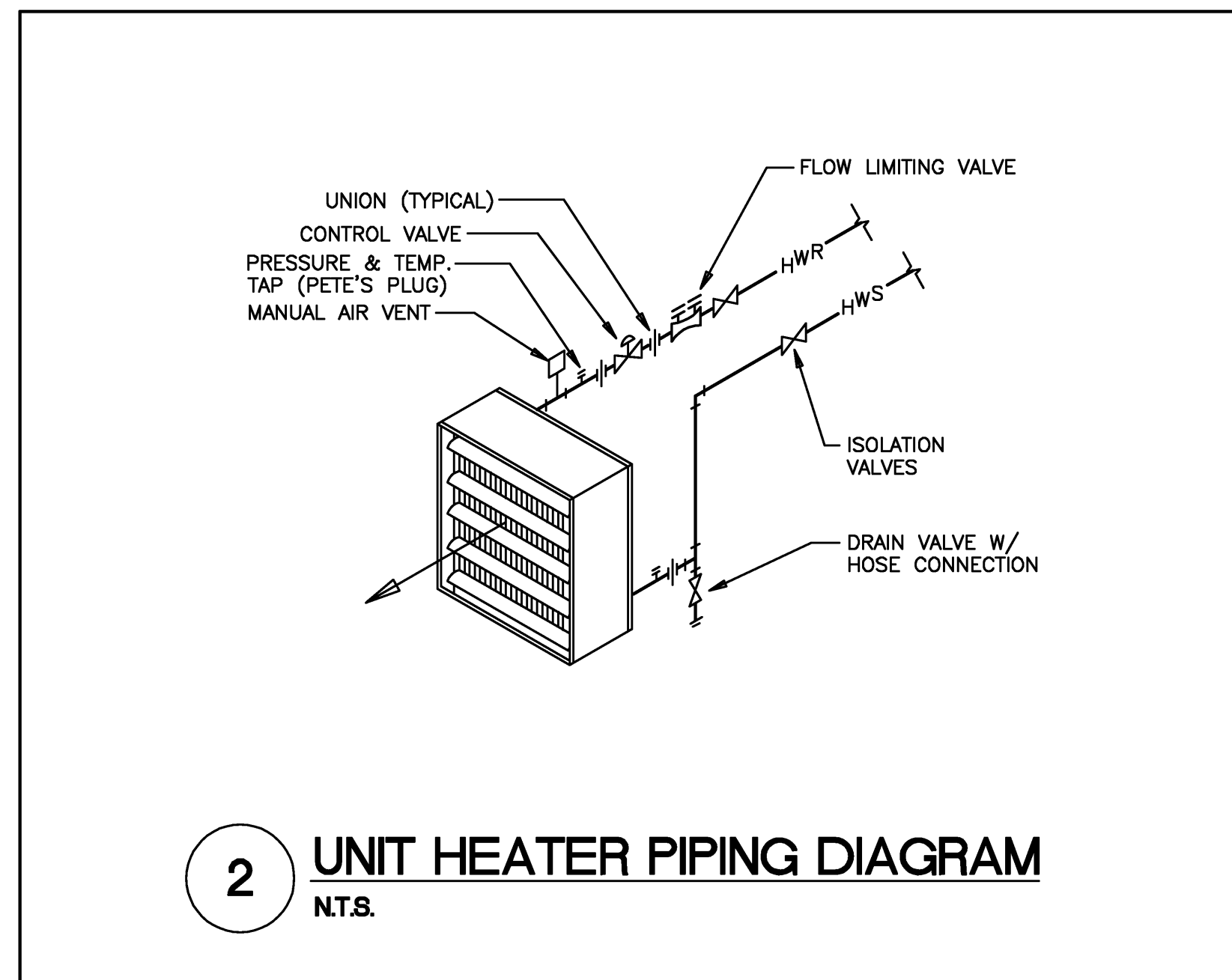
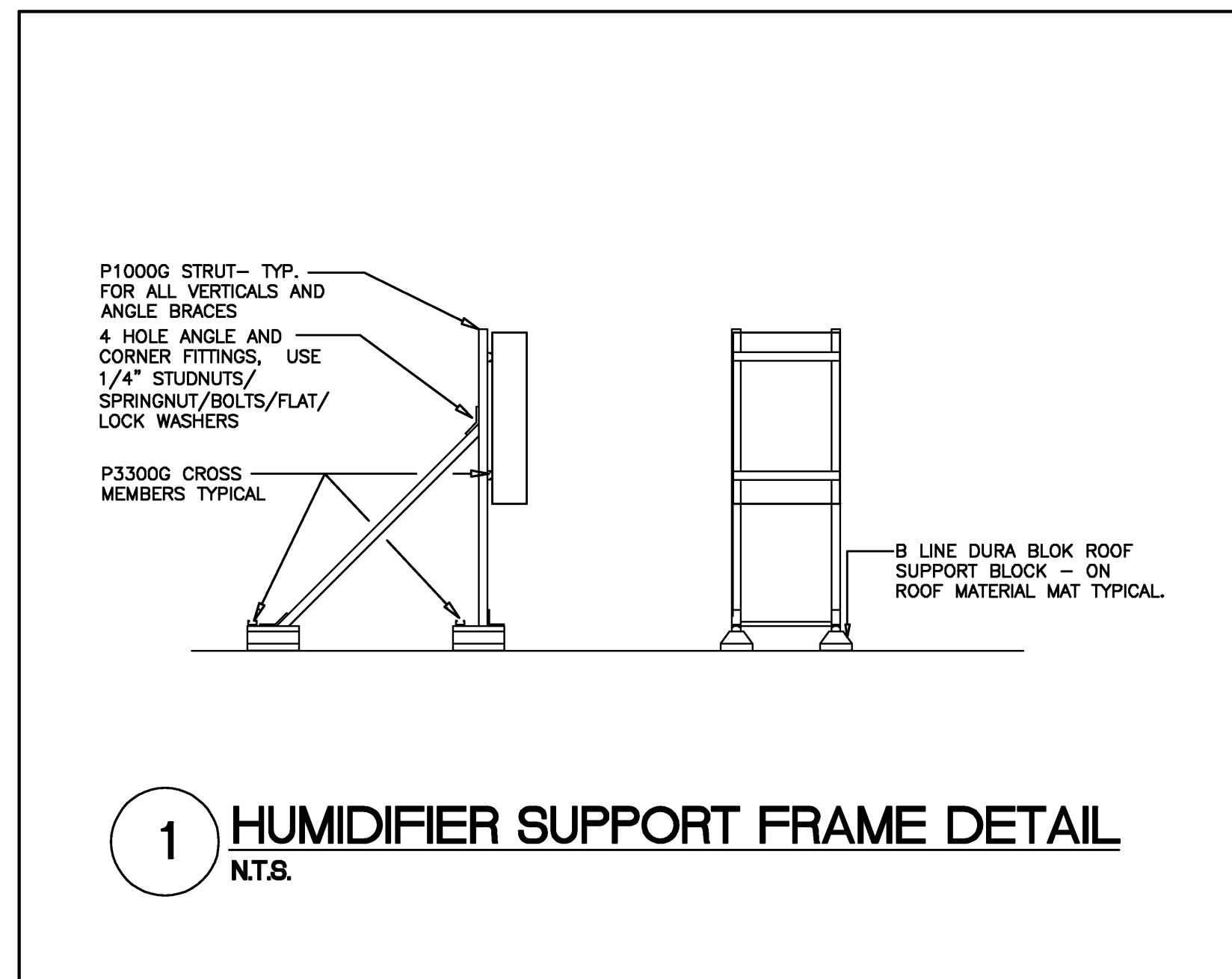


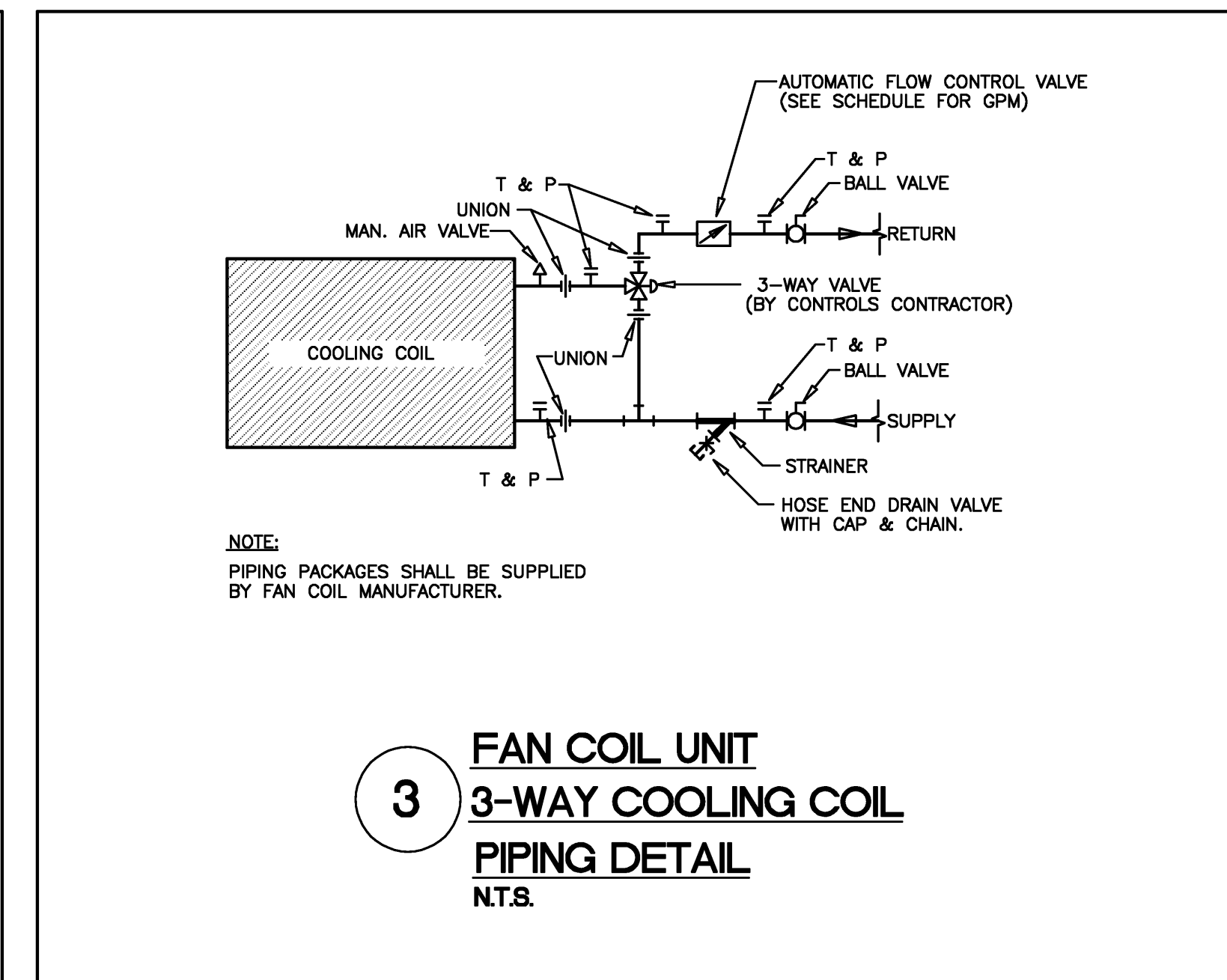
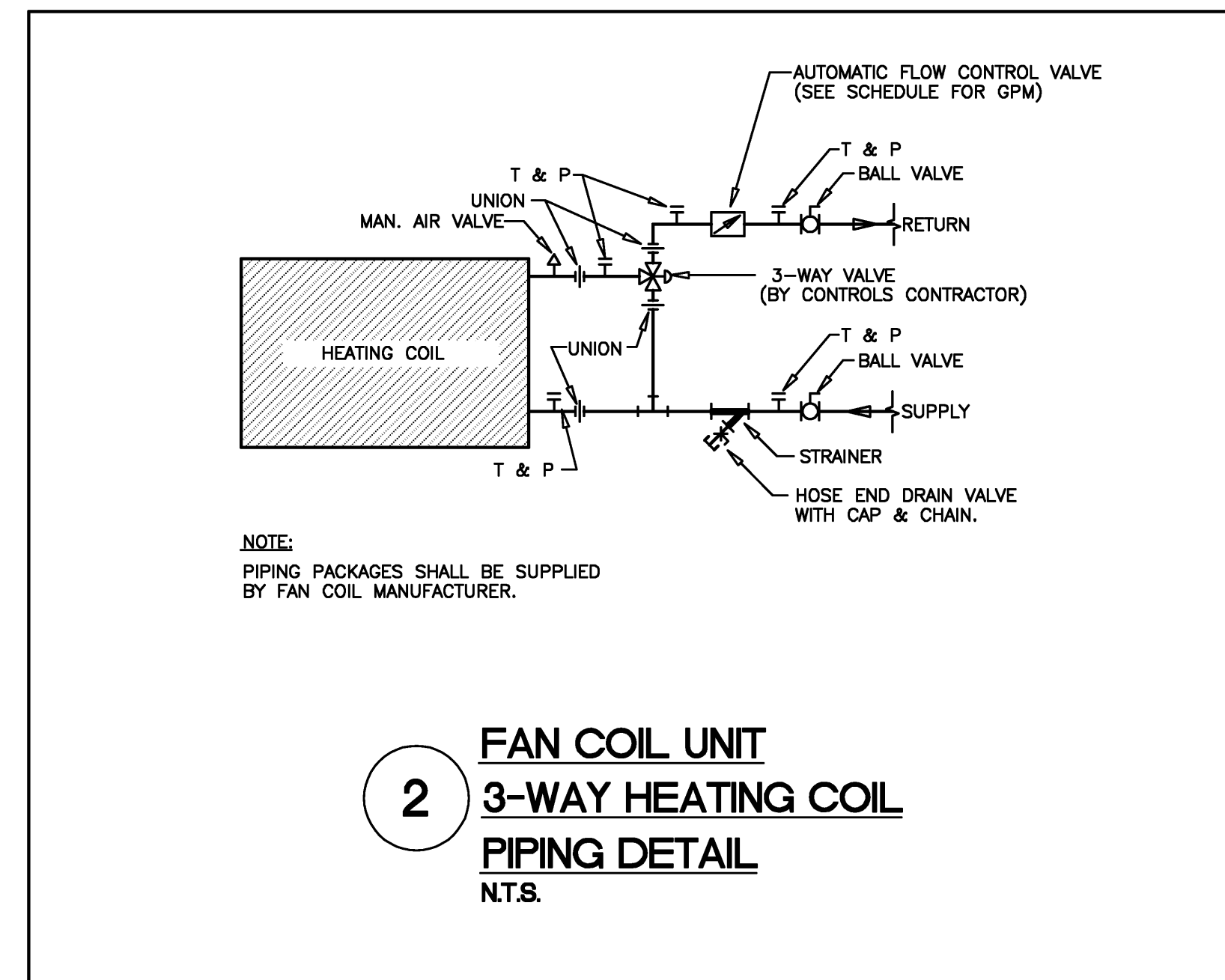
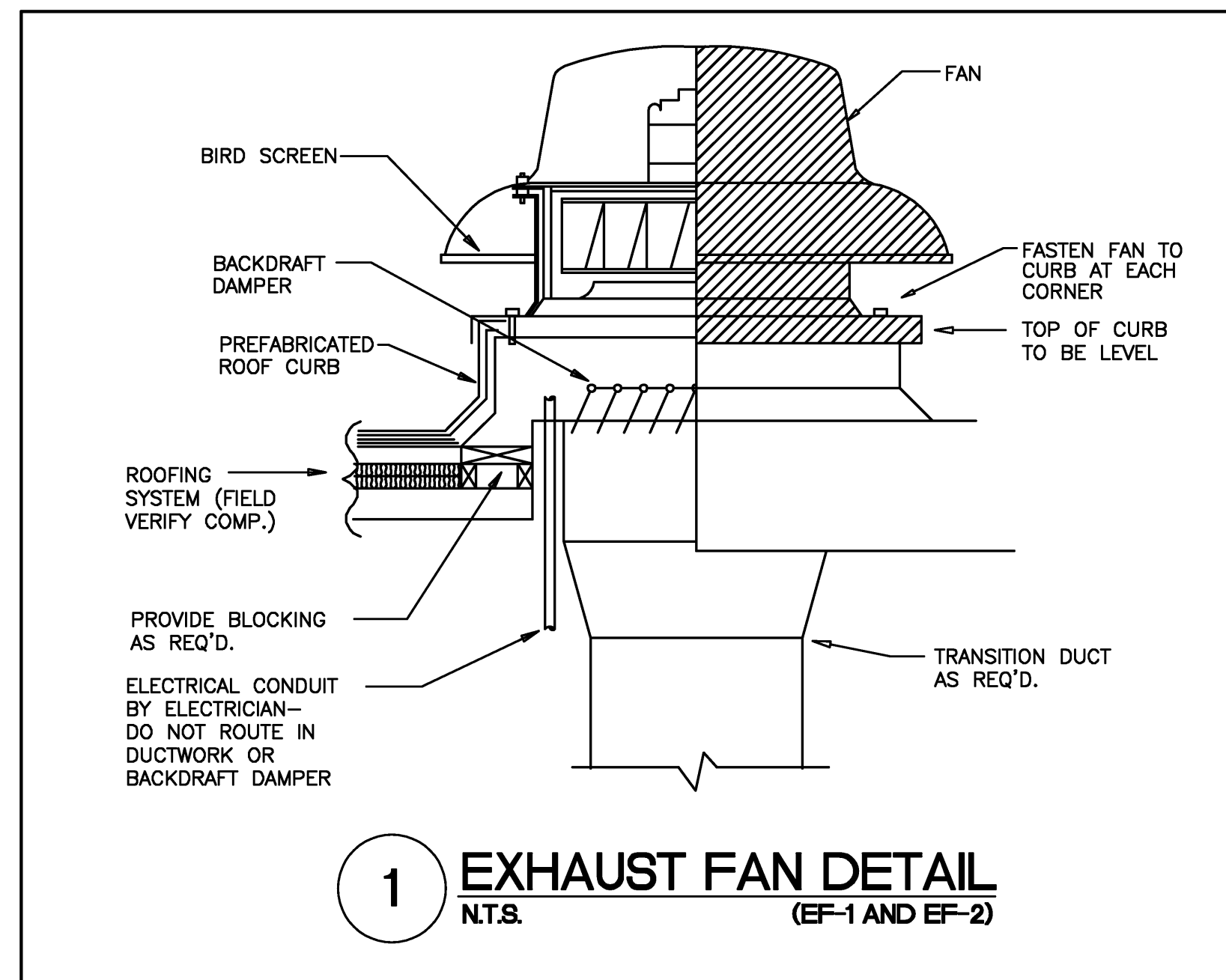
11 PUMP PIPING DETAIL
N.T.S.
(CHWP-1, CHWP-2, HWP-4, AND HWP-5)



- NOTES:
1. ALL DAMPERS MUST HAVE U.L. SEE LABEL.
 2. PROVIDE MINIMUM 14"x14" ACCESS DOOR IN ALL DUCTS WHEN SIZE PERMITS. FOR SMALLER DUCTS, MAKE PANEL 2" LESS THAN DUCT.
 3. DAMPERS SHALL BE TYPE "B" OR "C" WITH 24 GA. MIN. STEEL CHANNEL FRAMES.
 4. CURB SHALL BE 4"x4" GALV. ANGLE, ANCHORED & SEALED TO CONCRETE FLOOR W/ WELDED MITERED CORNERS, AS AN ALTERNATE, PROVIDE 4" HIGH CONCRETE CURB AT DUCT PENETRATION.

12 FIRE DAMPER FLOOR INSTALLATION DETAIL
N.T.S.





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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: HVAC DETAILS

Sheet Number: **M4.3**

AIR TERMINAL SCHEDULE

DESG.	MFR/MDL	TYPE	PRIMARY CFM		UNIT A.P.D.	INLET SIZE	OUTLET SIZE	HEATING WATER COIL DATA						REMARKS	
			MIN.	MAX.				CFM	MEH	EW/LWT	EAT/LAT	QPM	WPD		ROW/FN
2-316	TTUS/DES10	SINGLE DUCT VARIABLE VOL.	360	900	0.30"	10"	14" X 12.5"	360	18.5	150/131.5'	55/103.0'	2.0	0.3"	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)

AIR TERMINAL SCHEDULE

DESG.	MFR/MDL	TYPE	PRIMARY CFM		UNIT A.P.D.	INLET SIZE	OUTLET SIZE	HEATING WATER COIL DATA						REMARKS	
			MIN.	MAX.				CFM	MEH	EW/LWT	EAT/LAT	QPM	WPD		ROW/FN
3-401	TTUS/DES12	SINGLE DUCT VARIABLE VOL.	760	1260	0.31"	12"	16" X 15"	760	36.9	150/136.6'	55/100.0'	5.5	2.5"	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)

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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: HVAC - SCHEDULES
Sheet Number: **M5.3**



AIR TERMINAL SCHEDULE

DESG.	MFR/MDL	TYPE	PRIMARY CFM		UNIT A.P.D.	INLET SIZE	OUTLET SIZE	HEATING WATER COIL DATA						ROW/FIN	REMARKS
			MIN.	MAX.				CFM	MBH	EWT/LWT	EAT/LAT	GPM	WPD		
4-312	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	80	200	0.10"	6"	12" X 8"	80	5.0	150'/130.0'	55'/113.0'	0.5	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-313	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	80	200	0.10"	6"	12" X 8"	80	5.0	150'/130.0'	55'/113.0'	0.5	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-314	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	80	200	0.10"	6"	12" X 8"	80	5.0	150'/130.0'	55'/113.0'	0.5	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-315	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	80	200	0.10"	6"	12" X 8"	80	5.0	150'/130.0'	55'/113.0'	0.5	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-316	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	80	200	0.10"	6"	12" X 8"	80	5.0	150'/130.0'	55'/113.0'	0.5	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-317	TITUS/DESV12	SINGLE DUCT VARIABLE VOL.	780	1300	0.33"	12"	16" X 15"	780	38.1	150'/138.3'	55'/100.0'	6.5	3.4'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-318	TITUS/DESV12	SINGLE DUCT VARIABLE VOL.	810	1350	0.35"	12"	16" X 15"	810	39.6	150'/139.4'	55'/100.0'	7.5	4.4'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-319	TITUS/DESV08	SINGLE DUCT VARIABLE VOL.	180	400	0.14"	8"	12" X 10"	180	9.4	150'/131.2'	55'/110.0'	1.0	0.2'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-320	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-321	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-322	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-323	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-324	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-400	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-401	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-402	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-403	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-404	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-405	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-406	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-407	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	180	400	0.14"	8"	12" X 10"	180	9.4	150'/131.2'	55'/110.0'	1.0	0.2'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-408	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-409	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-410	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-411	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-412	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-413	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-414	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-415	TITUS/DESV06	SINGLE DUCT VARIABLE VOL.	100	250	0.15"	6"	12" X 8"	100	6.4	150'/137.1'	55'/115.0'	1.0	0.3'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-416	TITUS/DESV10	SINGLE DUCT VARIABLE VOL.	240	600	0.15"	10"	14" X 12.5"	240	12.9	150'/124.3'	55'/105.0'	1.0	0.1'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-417	TITUS/DESV14	SINGLE DUCT VARIABLE VOL.	1135	1880	0.34"	14"	20" X 17.5"	1135	55.6	150'/137.6'	55'/100.0'	9.0	3.5'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-418	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-419	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-420	TITUS/DESV08	SINGLE DUCT VARIABLE VOL.	180	400	0.14"	8"	12" X 10"	180	9.4	150'/131.2'	55'/110.0'	1.0	0.2'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-421	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-422	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-423	TITUS/DESV04	SINGLE DUCT VARIABLE VOL.	40	100	0.03"	4"	12" X 8"	40	2.6	150'/139.5'	55'/116.0'	0.5	0.2'	1 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)
4-108	TITUS/DESV08	SINGLE DUCT VARIABLE VOL.	180	400	0.14"	8"	12" X 10"	180	9.4	150'/131.2'	55'/110.0'	1.0	0.2'	2 R/10 FPI	UNIT PROVIDED WITH 1/2" FOIL FACED INSULATION, TRANSFORMER, AND DISCONNECT (SEE SPECS.)



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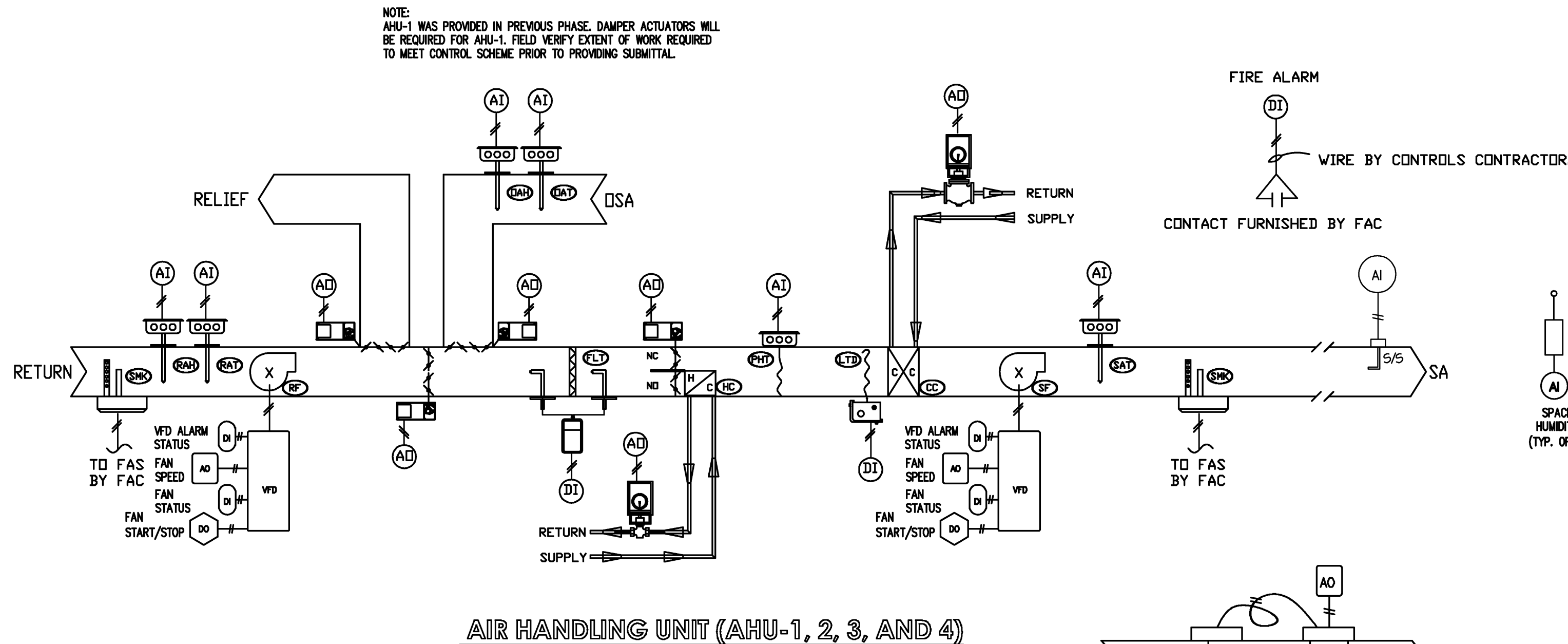
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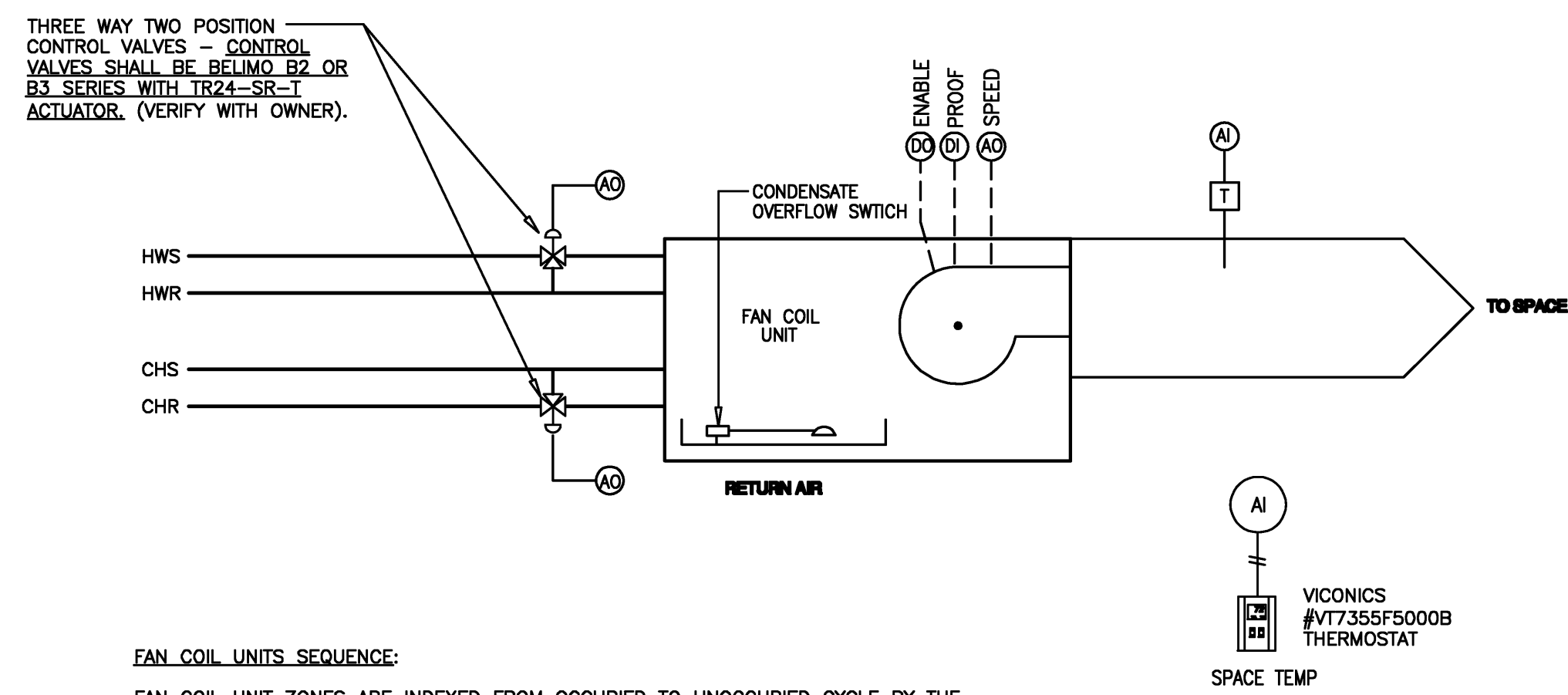
Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Title: HVAC - SCHEDULES
Sheet Number: **M5.4**

**AIR HANDLING UNIT SEQUENCE OF OPERATION
(AHU-1, AHU-2, AHU-3, AND AHU-4)**



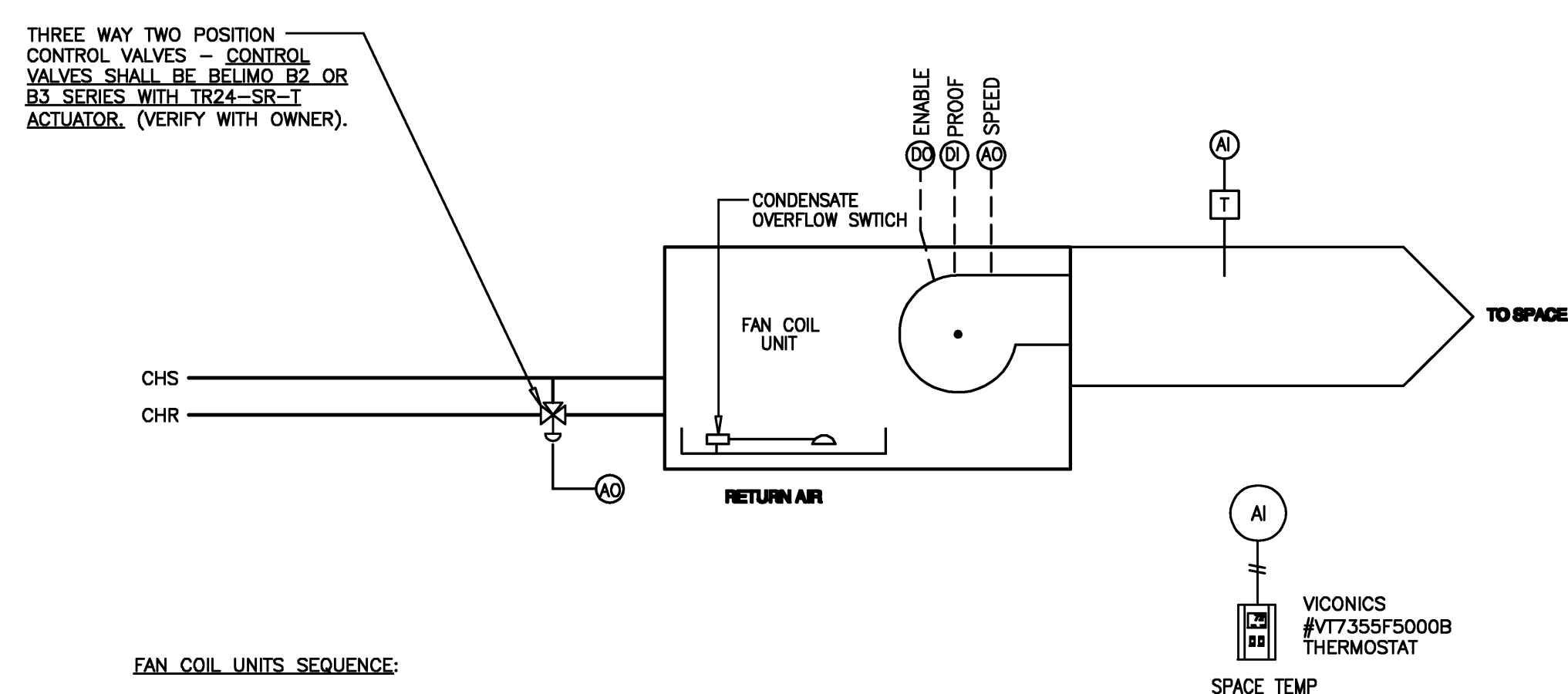
AIR HANDLING UNIT (AHU-1, 2, 3, AND 4)

DUCT HUMIDIFIER (H-1, H-2, H-3, AND H-4)



FAN COIL UNITS SEQUENCE:
 FAN COIL UNIT ZONES ARE INDEXED FROM OCCUPIED TO UNOCCUPIED CYCLE BY THE BUILDING AUTOMATION SYSTEM (BAS). DURING THE OCCUPIED CYCLE THE HEATING AND COOLING CONTROL VALVES MODULATE IN SEQUENCE AS REQUIRED TO MAINTAIN SPACE THERMOSTAT SETPOINT. THE FAN RUNS CONTINUALLY AND FAN SPEED IS AUTOMATICALLY ADJUSTED BY THE FAN COIL DDC CONTROLLER BASED ON SPACE TEMPERATURE DEVIATION FROM SET POINT. DURING THE UNOCCUPIED PERIOD, THE FAN WILL CYCLE TO MAINTAIN SET-UP AND SET-BACK TEMPERATURE SETPOINTS. THE HEATING AND COOLING CONTROL VALVES WILL CLOSE WHEN THE FAN IS OFF.
 A CONDENSATION OVERFLOW SWITCH, LOCATED IN EACH DRAIN PAN, WILL STOP THE FAN COIL UNIT, CLOSE THE COOLING COIL VALVE AND GENERATE AN ALARM AT THE BAS WHENEVER AN OVERFLOW CONDITION IS SENSED.
 FAN COIL UNITS WILL STOP WHEN AN ALARM CONDITION IS DETECTED BY THE FIRE ALARM SYSTEM.

4-PIPE FAN COIL UNIT (FCU-1, FCU-4)



FAN COIL UNITS SEQUENCE:
 FAN COIL UNIT ZONES ARE INDEXED FROM OCCUPIED TO UNOCCUPIED CYCLE BY THE BUILDING AUTOMATION SYSTEM (BAS). DURING THE OCCUPIED CYCLE THE COOLING CONTROL VALVE MODULATES IN SEQUENCE AS REQUIRED TO MAINTAIN SPACE THERMOSTAT SETPOINT. THE FAN RUNS CONTINUALLY AND FAN SPEED IS AUTOMATICALLY ADJUSTED BY THE FAN COIL DDC CONTROLLER BASED ON SPACE TEMPERATURE DEVIATION FROM SET POINT. DURING THE UNOCCUPIED PERIOD, THE FAN WILL CYCLE TO MAINTAIN SET-UP AND SET-BACK TEMPERATURE SETPOINTS. THE HEATING AND COOLING CONTROL VALVES WILL CLOSE WHEN THE FAN IS OFF.
 A CONDENSATION OVERFLOW SWITCH, LOCATED IN EACH DRAIN PAN, WILL STOP THE FAN COIL UNIT, CLOSE THE COOLING COIL VALVE AND GENERATE AN ALARM AT THE BAS WHENEVER AN OVERFLOW CONDITION IS SENSED.
 FAN COIL UNITS WILL STOP WHEN AN ALARM CONDITION IS DETECTED BY THE FIRE ALARM SYSTEM.

COOLING-ONLY FAN COIL UNIT (FCU-2, FCU-3)

OCCUPIED COOLING MODE/PRE-OCCUPANCY VENTILATION MODE
 WHEN THE AHU IS IN THE OCCUPIED COOLING MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY, THE VARIABLE FREQUENCY DRIVE (VFD) SHALL MODULATE TO MAINTAIN THE DUCT STATIC PRESSURE AND THE COOLING VALVE, HEATING VALVE, AND ECONOMIZER DAMPERS SHALL MODULATE IN SEQUENCE TO MAINTAIN THE COOLING DISCHARGE AIR TEMPERATURE. THE OUTDOOR AIRFLOW, AS MEASURED AT THE AIR HANDLING UNIT OUTDOOR AIR INTAKE, SHALL BE MAINTAINED AT A VALUE EQUAL TO OR HIGHER THAN THE MINIMUM REQUIRED OUTDOOR AIRFLOW SETPOINT. DETERMINATION OF THE MINIMUM REQUIRED OUTDOOR AIRFLOW SETPOINT SHALL BE PER THE MINIMUM REQUIRED OUTDOOR AIRFLOW SETPOINT SECTION OF THE AHU SYSTEM LEVEL OPERATION SECTION OF THIS SPECIFICATION.

UNOCCUPIED MODE
 WHEN THE AHU IS IN THE UNOCCUPIED MODE, THE SUPPLY FAN SHALL BE OFF, THE FREQUENCY INVERTER, OUTDOOR AIR DAMPER, AND COOLING VALVE SHALL BE CLOSED, AND THE HEATING VALVE SHALL BE FULLY OPEN.

NIGHT SETBACK (NSB) / MORNING WARM-UP HEATING MODE (MWH)
 WHEN THE AHU IS IN THE NIGHT SETBACK / MORNING WARM-UP HEATING MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY, THE VFD SHALL MODULATE TO MAINTAIN THE DUCT STATIC PRESSURE. THE OUTDOOR AIR DAMPER AND COOLING VALVE SHALL BE CLOSED. THE RETURN AIR DAMPER SHALL BE FULLY OPEN AND THE ZONE TERMINAL REHEAT SHALL MODULATE TO WARM THE BUILDING TO THE NSB/MWH TEMPERATURE SETPOINT. ALL VAV TERMINAL UNITS SHALL ENABLE LOCAL HEAT AND OPERATE IN THEIR VAV HEATING MODE UNTIL THE NSB/MWH CRITERIA IS SATISFIED AND THE AHU RETURNS TO THE OCCUPIED OR UNOCCUPIED MODE.

SUPPLY FAN CONTROL
 THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY WHENEVER THE AHU IS IN EITHER THE OCCUPIED COOLING MODE OR THE NIGHT SETBACK / MORNING WARM-UP HEATING MODE. THE SUPPLY FAN SHALL BE OFF WHENEVER THE AHU IS IN THE UNOCCUPIED MODE, THE STOP / AUTO INTERLOCK IS OPEN, THE MIXED AIR LOW LIMIT IS TRIPPED, OR THE SUPPLY FAN STATUS INDICATES A FAILURE. THE LOW LIMIT AND THE FAN FAILURE REQUIRE A MANUAL RESET.

VFD CONTROL
 WHEN THE SUPPLY FAN IS ON, THE VFD SHALL SLOWLY RAMP (ADJUSTABLE) UP AND MODULATE TO MAINTAIN THE PROPER DISCHARGE DUCT STATIC PRESSURE SETPOINT. SEE BELOW.

ECONOMIZER CONTROL
 WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE CHANGEOVER SETPOINT, THE OUTDOOR AIR DAMPER SHALL MODULATE THE AIRFLOW BETWEEN THE MINIMUM REQUIRED OUTDOOR AIRFLOW SETPOINT AND THE FULL OPEN POSITION TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT THE COOLING DISCHARGE AIR TEMPERATURE SETPOINT. THE MIXED AIR SENSOR SHALL BE LOCATED BEFORE THE HEATING COIL AND COOLING COIL. IF THE OUTDOOR AIRFLOW IS MODULATED BELOW ITS MINIMUM REQUIREMENT, AN ALARM SHALL BE SENT TO THE BAS INDICATING A MINIMUM VENTILATION FLOW FAILURE. A MANUAL RESET MIXED AIR LOW LIMIT SHALL TURN THE SUPPLY FAN OFF. IF ANY 8 INCHES OF ITS SENSING ELEMENT IS BELOW ITS SETPOINT, THE OUTDOOR AIR DAMPER SHALL BE CONTROLLED TO MAINTAIN THE REQUIRED MINIMUM OUTDOOR AIRFLOW IF THE ECONOMIZER FUNCTION IS DISABLED OR IF THE DISCHARGE AIR TEMPERATURE SENSOR HAS FAILED. IF THE AHU IS IN THE MORNING WARM-UP MODE OR THE SUPPLY FAN IS OFF, THE OUTDOOR AIR DAMPER SHALL BE CLOSED. IF THE MIXED AIR TEMPERATURE SENSOR HAS FAILED, THE OUTDOOR AIR DAMPER SHALL BE CLOSED AND AN ALARM SHALL BE SENT TO THE BAS INDICATING A MIXED AIR SENSOR FAILURE AND A MINIMUM VENTILATION FLOW FAILURE.

HEATING VALVE CONTROL
 DURING ECONOMIZER CONTROL, IF THE MIXED AIR TEMPERATURE IS BELOW THE DISCHARGE AIR COOLING SETPOINT AND THE OUTSIDE AIR DAMPER IS AT MINIMUM AIRFLOW, THE HEATING VALVE SHALL MODULATE TO MAINTAIN THE INTERMEDIATE AIR TEMPERATURE AT THE DISCHARGE AIR SETPOINT. THE HEATING COIL SHALL BE DISABLED WHEN THE OUTDOOR AIRFLOW RATE EXCEEDS THE REQUIRED MINIMUM AIRFLOW SETPOINT BY MORE THAN 10% OR IF THE COOLING VALVE IS OPEN.

COOLING VALVE CONTROL
 THE COOLING VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT THE DISCHARGE COOLING SETPOINT. IF THE ECONOMIZER FUNCTION IS ENABLED AND THE OUTDOOR AIR DAMPER IS NOT FULLY OPENED, THE COOLING VALVE SHALL BE CLOSED. THE COOLING VALVE SHALL BE CLOSED IF THE AHU IS IN THE HEATING MODE, THE SUPPLY FAN IS OFF, OR THE DISCHARGE AIR SENSOR HAS FAILED.

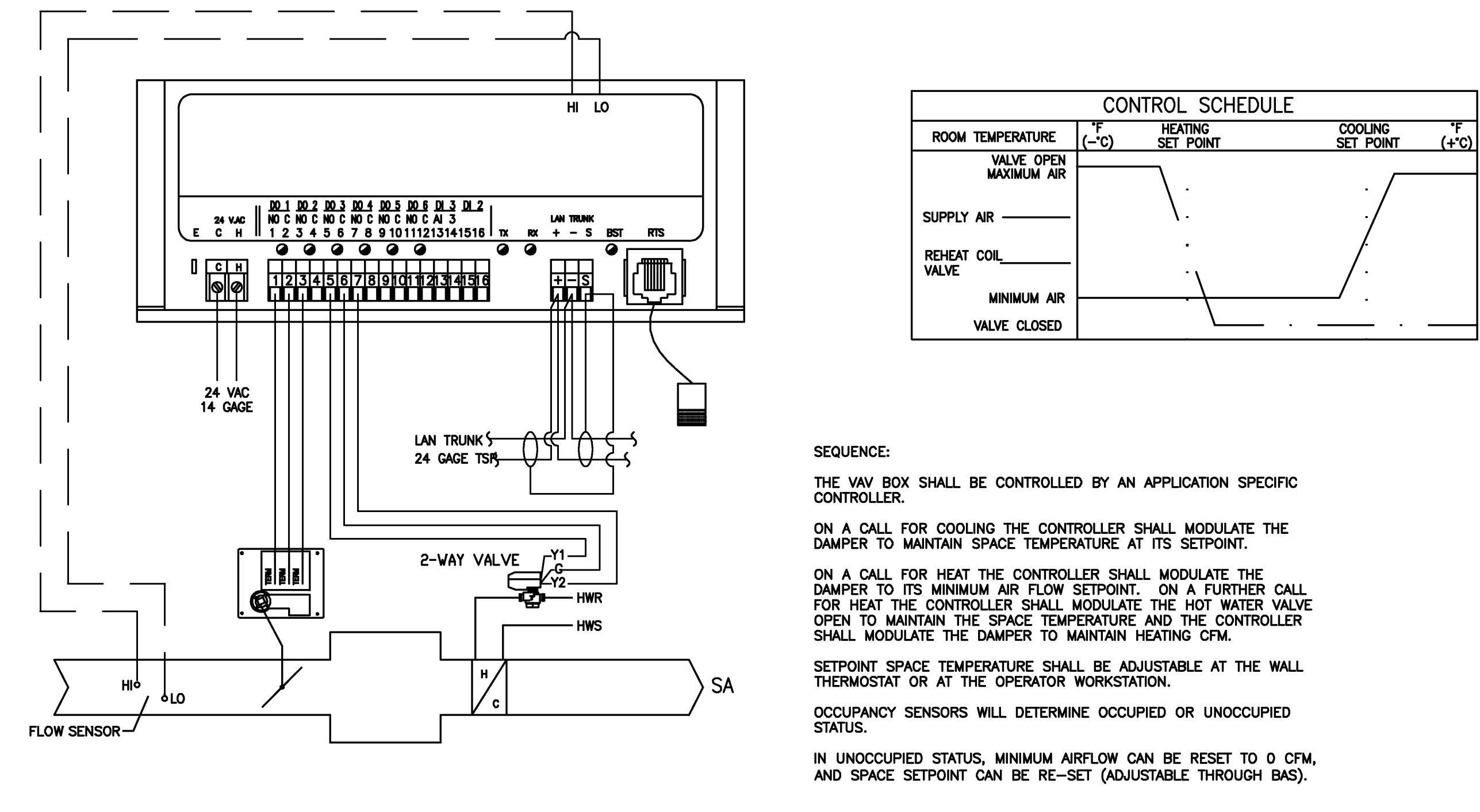
HUMIDITY CONTROL
 HUMIDIFIER TO BE ENABLED BY BAS BASED UPON OWNER-DEFINED SCHEDULE. IF SPACE HUMIDITY FALLS BELOW 45% (ADJ), THE ASSOCIATED AIR HANDLER SHALL BE ENABLED AND THE HUMIDIFIER VALVE SHALL MODULATE TO RETURN THE SPACE HUMIDITY TO 55% (ADJ).

MINIMUM REQUIRED OUTDOOR AIRFLOW SETPOINT
 DURING OCCUPIED TIMES, THE AIR HANDLING UNIT OUTDOOR AIR DAMPER SHALL MAINTAIN A MINIMUM OPEN POSITION AND MODULATE OPEN FROM THAT POSITION TO DELIVER REQUIRED OUTDOOR AIRFLOW TO EACH INDIVIDUAL VAV ZONE BASED UPON SPACE CO2 LEVELS. COORDINATE WITH ENGINEER.

DISCHARGE DUCT STATIC PRESSURE SETPOINT
 THE BUILDING AUTOMATION SYSTEM SHALL CONTINUOUSLY MONITOR THE DAMPER POSITION OF ALL VAV TERMINAL UNITS. THE DISCHARGE DUCT STATIC PRESSURE SHALL BE SENSED DIRECTLY AT THE DISCHARGE OF EACH AIR HANDLER. THE SENSOR MUST BE MOUNTED IN A NON-TURBULENT LOCATION. WHEN ANY DAMPER IS MORE THAN 80% (ADJ) OPEN, THE SUPPLY FAN DISCHARGE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET UPWARD BY 5% (ADJ) OF THE MAXIMUM SYSTEM STATIC PRESSURE SETPOINT AT A FREQUENCY OF 10 MINUTES (ADJ) UNTIL NO DAMPER IS MORE THAN 95% OPEN OR THE STATIC PRESSURE SETPOINT HAS RESET UPWARD TO THE SYSTEM MAXIMUM SETTING OR THE INLET VANES (OR VFD) ARE AT THEIR MAXIMUM SETTING.

MAXIMUM SYSTEM STATIC PRESSURE SETPOINT
 WHEN ALL DAMPERS ARE LESS THAN 80% (ADJ) OPEN, THE SUPPLY FAN DISCHARGE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET DOWNWARD BY 5% (ADJ) OF THE MAXIMUM SYSTEM STATIC PRESSURE SETPOINT AT A FREQUENCY OF 10 MINUTES (ADJ) UNTIL ANY DAMPER IS MORE THAN 80% OPEN OR THE STATIC PRESSURE SETPOINT HAS RESET DOWNWARD TO THE SYSTEM MINIMUM SETTING OR THE INLET VANES (OR VFD) ARE AT THEIR MINIMUM SETTING. THE CONTROL BANDS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES AND ADJUSTMENT FREQUENCIES SHALL BE ADJUSTED TO MAINTAIN MAXIMUM STATIC PRESSURE OPTIMIZATION WITH STABLE SYSTEM CONTROL AND MAXIMUM COMFORT CONTROL.

BUILDING STATIC PRESSURE CONTROL
 THE RETURN AIR FAN SHALL BE MODULATED IN SEQUENCE WITH THE RELIEF AIR DAMPER AND MIXED AIR DAMPER TO MAINTAIN POSITIVE BUILDING PRESSURE DURING SUMMER OPERATION (OAT GREATER THAN 55F) AND NEUTRAL BUILDING PRESSURE DURING WINTER OPERATION (OAT LESS THAN 50F).



CONTROL SCHEDULE

ROOM TEMPERATURE	HEATING SET POINT	COOLING SET POINT
VALVE OPEN	Y	Y
MAXIMUM AIR	Y	Y
SUPPLY AIR	Y	Y
REHEAT COIL VALVE	Y	Y
MINIMUM AIR	Y	Y
VALVE CLOSED	Y	Y

SEQUENCE:
 THE VAV BOX SHALL BE CONTROLLED BY AN APPLICATION SPECIFIC CONTROLLER.
 ON A CALL FOR COOLING THE CONTROLLER SHALL MODULATE THE DAMPER TO MAINTAIN SPACE TEMPERATURE AT ITS SETPOINT.
 ON A CALL FOR HEAT THE CONTROLLER SHALL MODULATE THE DAMPER TO ITS MINIMUM AIR FLOW SETPOINT. ON A FURTHER CALL FOR HEAT THE CONTROLLER SHALL MODULATE THE HOT WATER VALVE OPEN TO MAINTAIN THE SPACE TEMPERATURE AND THE CONTROLLER SHALL MODULATE THE DAMPER TO MAINTAIN HEATING CFM.
 SETPOINT SPACE TEMPERATURE SHALL BE ADJUSTABLE AT THE WALL THERMOSTAT OR AT THE OPERATOR WORKSTATION.
 OCCUPANCY SENSORS WILL DETERMINE OCCUPIED OR UNOCCUPIED STATUS.
 IN UNOCCUPIED STATUS, MINIMUM AIRFLOW CAN BE RESET TO 0 CFM, AND SPACE SETPOINT CAN BE RE-SET (ADJUSTABLE THROUGH BAS).

V.A.V. WITH HOT WATER RE-HEAT



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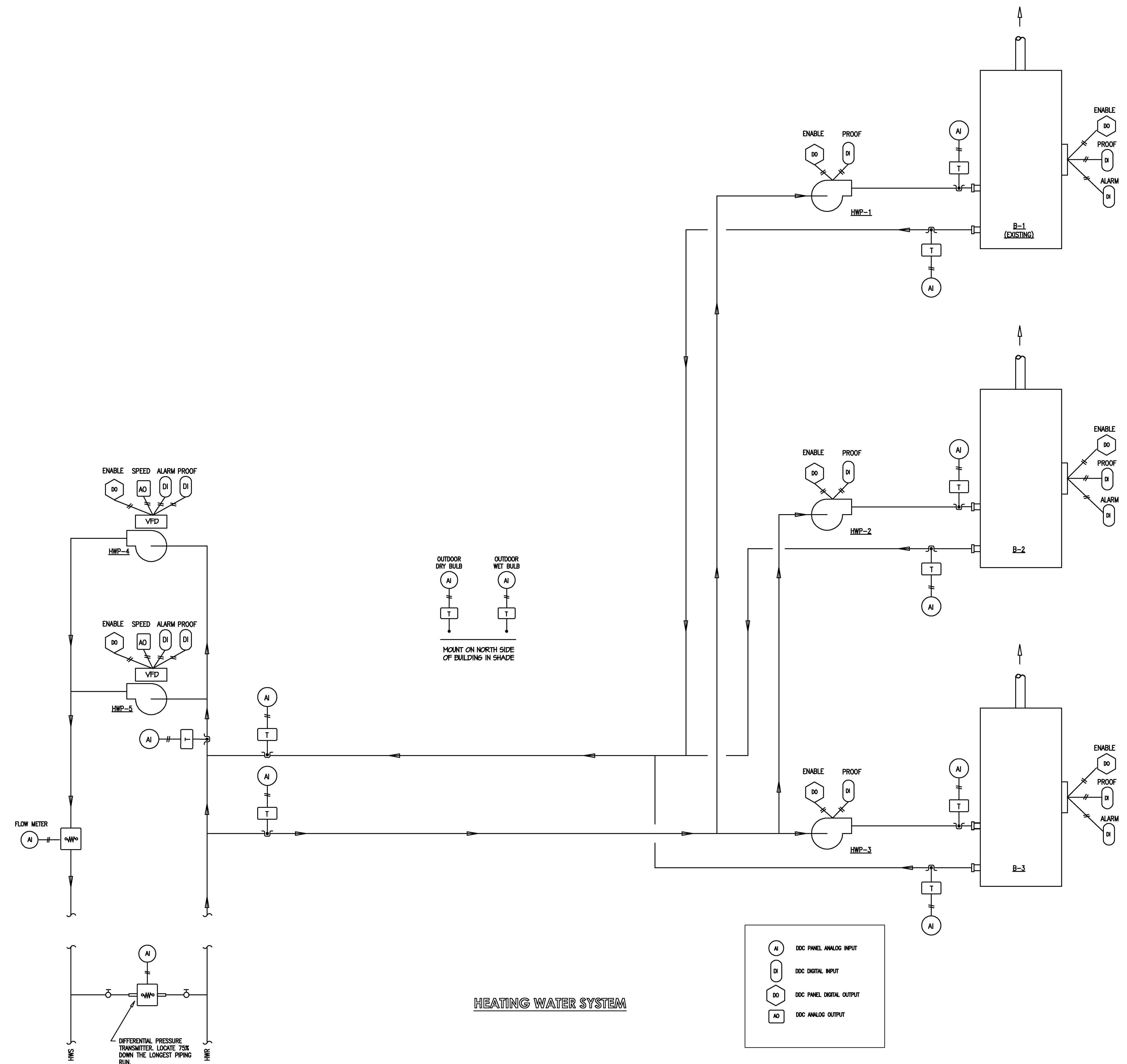
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 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: HVAC - CONTROLS
 Sheet Number: M6.1



HOT WATER SYSTEM SEQUENCE OF OPERATION

BOILER SEQUENCE OF OPERATION
THE HYDRONIC PLANT SYSTEM CONTROLLER SHALL ENABLE BOILER OPERATION AND MONITOR HEATING WATER SYSTEM STATUS.

HEATING WATER SYSTEM OVERVIEW
THE HEATING WATER SYSTEM SHALL BE ENABLED/DISABLED VIA A COMMUNICATION LINK. THE SYSTEM CONTROLLER SHALL ENABLE THE HW PUMPS. WHEN FLOW IS VERIFIED AT THE BOILER VIA THE FLOW SWITCH PROVIDED BY THE PACKAGED BOILER MANUFACTURER, THE BOILER SHALL ENABLE AND MODULATE OUTPUT CAPACITY TO MAINTAIN THE SYSTEM SUPPLY WATER SETPOINT.

SYSTEM SCHEDULING
THE HEATING WATER SYSTEM CONTROLLER WILL START THE BOILER BASED UPON A GRAPHICAL CALENDAR TIME OF DAY SCHEDULING APPLICATION WITH THE OPTION TO USE OUTSIDE AMBIENT TEMPERATURE LOCKOUT. THE HEATING WATER PLANT SHALL START IN RESPONSE TO THE OPTIMUM START, NIGHT SETBACK OR TIMED OVERRIDE OPERATION OF SYSTEM AIR HANDLER.

BOILER OPERATION
THE INDIVIDUAL PACKAGED BOILER CONTROLS SHALL MODULATE FIRE TO MAINTAIN THE SYSTEM LEAVING WATER TEMPERATURE SETPOINT. BOILER B-1 SHALL OPERATE WHENEVER IT CAN SOLELY MAINTAIN THE SYSTEM LEAVING WATER TEMPERATURE SETPOINT. AS THE HEATING REQUIREMENT RISES TO EXCEED THE CAPACITY OF B-1, B-1 SHALL BE SHUT DOWN, AND BOILERS B-2 AND B-3 SHALL BE ENABLED AS REQUIRED TO MAINTAIN THE SYSTEM LEAVING WATER TEMPERATURE. B-1 SHALL BE ENABLED IF B-2 AND B-3 CANNOT MAINTAIN THE SYSTEM LEAVING WATER TEMPERATURE SETPOINT. BOILERS B-2 AND B-3 SHALL AUTOMATICALLY ROTATE LEAD/LAG FUNCTION ONCE A WEEK WHEN BOTH BOILERS ARE NOT REQUIRED TO MAINTAIN SYSTEM LEAVING WATER TEMPERATURE. RESET OF THE SUPPLY WATER TEMPERATURE FROM A MAXIMUM OF 150 DEGREES FAHRENHEIT (ADJ.) TO A MINIMUM OF 120 DEGREES FAHRENHEIT (ADJ.) SHALL OCCUR IN RESPONSE TO THE MEASURED VALUE FROM THE AMBIENT TEMPERATURE SENSOR PROVIDED BY THE PACKAGED BOILER. THE RESET SCHEDULE SHALL OCCUR FROM 70 DEGREES FAHRENHEIT AMBIENT (FULL RESET) TO 40 DEGREES FAHRENHEIT (NO RESET).

VARIABLE SPEED PUMPING SEQUENCE OF OPERATION
THE BUILDING AUTOMATION SYSTEM SHALL MONITOR THE HW DIFFERENTIAL PRESSURE SENSOR AND MODULATE THE HW PUMP VARIABLE SPEED DRIVE TO MAINTAIN THE SYSTEM PRESSURE AT SETPOINT OF 15 PSI (ADJ.). THE BUILDING AUTOMATION SYSTEM SHALL AUTOMATICALLY ROTATE THE HEATING WATER PUMPS (HWP-4 AND HWP-5) IN A LEAD/LAG FUNCTION ONCE A WEEK. IF THE LEAD PUMP DOES NOT START OR FALLS DURING OPERATION, THE STANDBY PUMP SHALL BE STARTED AUTOMATICALLY AND THE BAS SHALL GENERATE AN ALARM NOTIFICATION.

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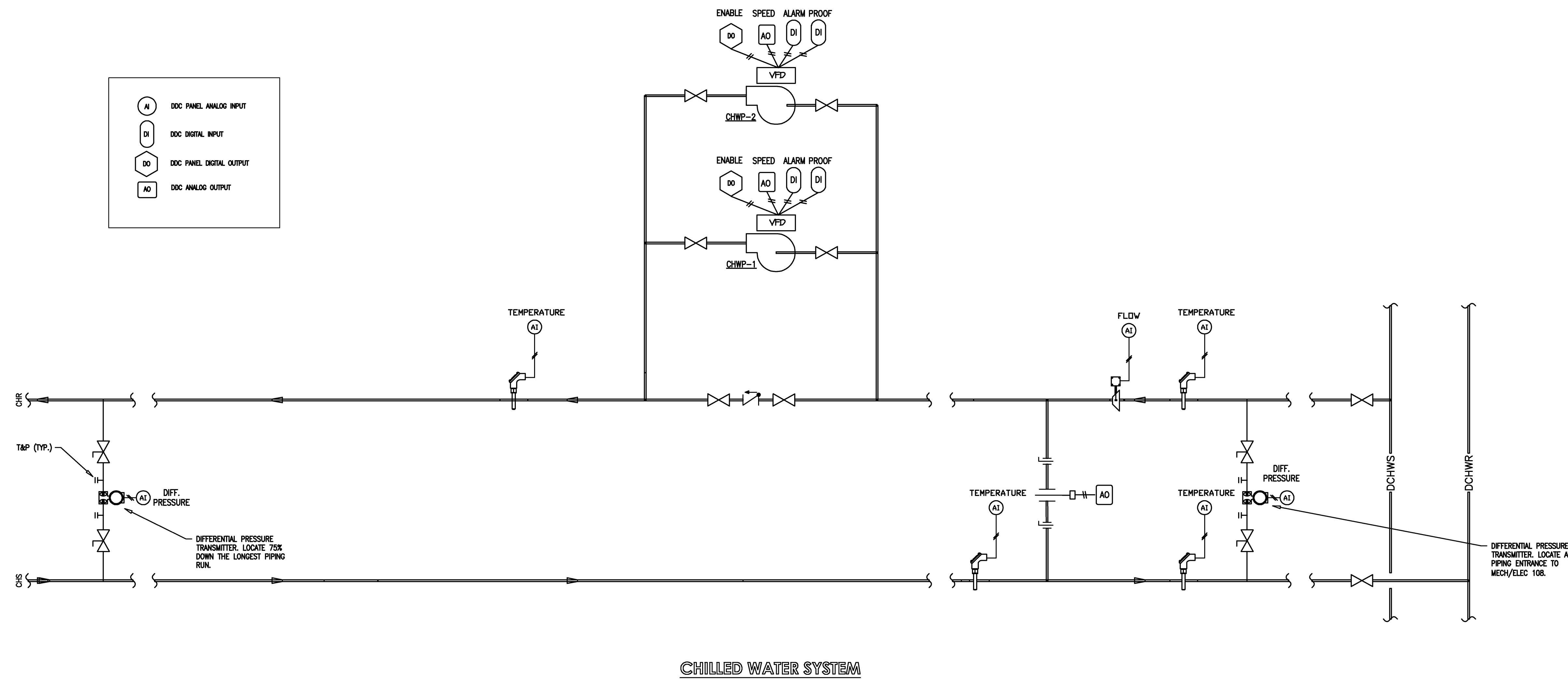
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Location: Jonesboro, AR
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Title: HVAC - CONTROLS
Sheet Number: **M6.2**

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CHILLED WATER SYSTEM SEQUENCE OF OPERATION

CHILLED WATER SEQUENCE OF OPERATION

THE HYDRONIC PLANT SYSTEM CONTROLLER SHALL MONITOR CHILLED WATER SYSTEM STATUS.

CHILLED WATER SYSTEM OVERVIEW

THE CHILLED WATER SYSTEM SHALL BE ENABLED/DISABLED VIA A COMMUNICATION LINK. THE SYSTEM CONTROLLER SHALL ENABLE THE CHILLED WATER CONTROL VALVE AND CHILLED WATER PUMPS CHWP-1 AND CHWP-2. THE CHILLED WATER WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SYSTEM SUPPLY WATER SETPOINT.

BUILDING CHILLED WATER CONTROL VALVE AND PUMPS

WHEN BUILDING COOLING IS DISABLED, THE BUILDING CHILLED WATER VALVE SHALL BE CLOSED AND THE PUMPS SHALL BE COMMANDED OFF. BUILDING COOLING SHALL BE ENABLED AND DISABLED BASED UPON OPERATOR COMMAND.

VARIABLE SPEED PUMPING SEQUENCE OF OPERATION

THE BUILDING AUTOMATION SYSTEM SHALL MONITOR THE CHILLED WATER DIFFERENTIAL PRESSURE SENSOR AND MODULATE THE CHILLED WATER PUMP VARIABLE SPEED DRIVES TO MAINTAIN THE SYSTEM PRESSURE AT SETPOINT OF 15 PSI (ADJ.). THE BUILDING AUTOMATION SYSTEM SHALL AUTOMATICALLY ROTATE THE CHILLED WATER PUMPS (CHWP-1 AND CHWP-2) IN A LEAD/LAG FUNCTION ONCE A WEEK. IF THE LEAD PUMP DOES NOT START OR FAILS DURING OPERATION, THE STANDBY PUMP SHALL BE STARTED AUTOMATICALLY AND THE BAS SHALL GENERATE AN ALARM NOTIFICATION.

DIFFERENTIAL PRESSURE TRANSMITTER LOCATE AT PIPING ENTRANCE TO MECH/ELEC 108.

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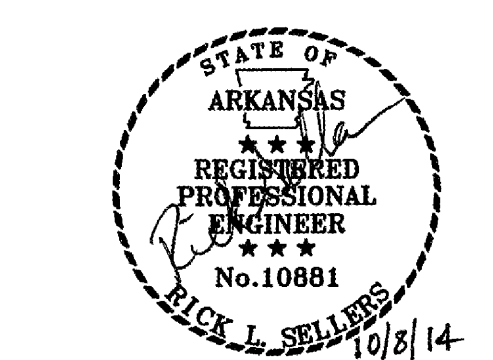


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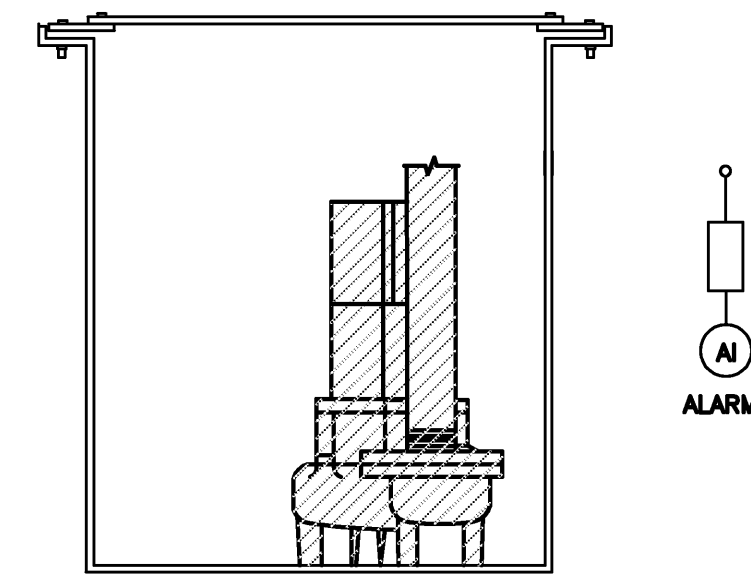
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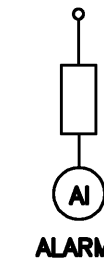
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M6.3

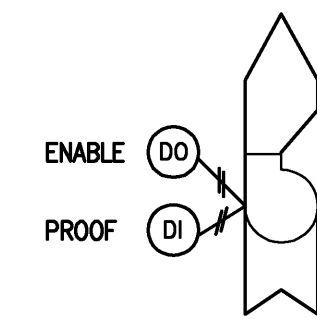


ELEVATOR SUMP PUMP



ELEVATOR SUMP PUMP SEQUENCE OF OPERATION

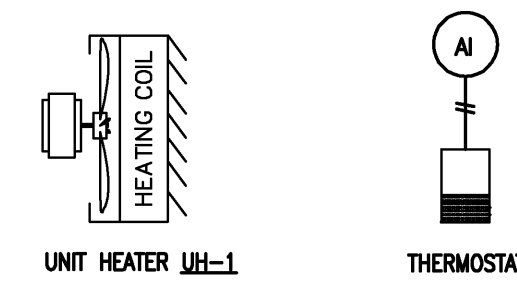
ALARM
PUMP FAIL ALARMS SHALL BE DISPLAYED AT THE GRAPHICAL USER INTERFACE AT THE PC WORKSTATION.



EXHAUST FAN (EF-1, EF-2, AND EF-3)

EXHAUST FAN SEQUENCE OF OPERATION

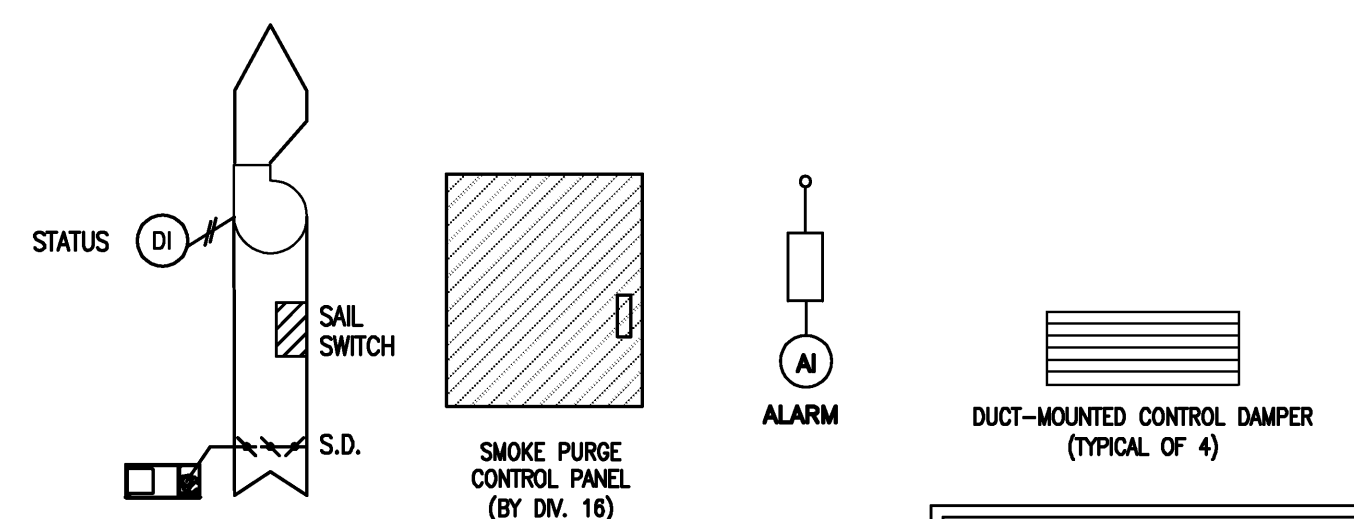
OCCUPIED/UNOCCUPIED MODE
OCCUPIED AND UNOCCUPIED MODE IS DETERMINED FROM OWNER DEFINED TIME SCHEDULE THROUGH THE BAS SERVER.
START/STOP
THE EXHAUST FANS SHALL RUN CONTINUOUS. THE BAS SHALL MONITOR EXHAUST FAN STATUS.



UNIT HEATER (UH-1)

ROOFTOP STORAGE ROOM SEQUENCE OF OPERATION

HEATING
MECHANICAL ROOM TEMP. SENSOR SHALL ENABLE THE UNIT HEATER UH-1 AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE TEMP. SETPOINT SHALL BE ADJUSTABLE FROM THE OPERATOR WORKSTATION.



ATRIUM SMOKE PURGE SYSTEM

NOTE:
CONTROLS CONTRACTOR TO COORDINATE
INTEGRATION OF DIVISION 16 EQUIPMENT
USED BY ATRIUM SMOKE PURGE SYSTEM.
PROVIDED BY DIVISION 16, WITH
ELECTRICAL CONTRACTORS.

ATRIUM SMOKE PURGE SEQUENCE OF OPERATION

ALARM
SYSTEM FAIL ALARM AND FAN STATUS SHALL BE DISPLAYED AT THE GRAPHICAL USER INTERFACE AT THE PC WORKSTATION.

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PROJECT: ASU - HUMANITIES & SOCIAL SCIENCES, PHASE 4 FINISH-OUT
LOCATION: JONESBORO, AR
DATE: OCTOBER 3, 2013
TITLE: HVAC - CONTROLS



Sheet Number: **M6.4**

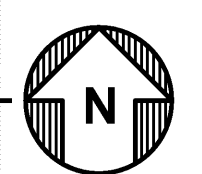
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PLUMBING KEYED NOTES

- 1 EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
- 2 EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
- 3 EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
- 4 EXISTING ELEVATOR HIGH WATER ALARM BOX.
- 5 4" SAN SEWER ABOVE FLOOR.
- 6 3" SAN SEWER BELOW FLOOR.
- 7 OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS
- 8 2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (NLET).
- 9 2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
- 10 DOMESTIC COLD WATER RISER
- 11 DOMESTIC HOT WATER RISER
- 12 DOMESTIC HOT WATER RETURN RISER
- 13 GAS RISER FROM BELOW TO PENTHOUSE
- 14 ALL GAS PIPING INSIDE THE BUILDING MUST RUN ABOVE A LAY-IN CEILING (NO GAS LINE CAN RUN ABOVE A GYP BOARD OR FIXED CEILING)
- 15 FIXED AIR GAP WASTE IN BOX WITH STAINLESS STEEL DOOR-FOR HVAC CONDENSATE-SEE DETAIL
- 16 1 1/2" (2PSI) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL. INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING
- 17 DROP A 2" (2PSI) GAS LINE DOWN TO HVAC BOILER. INSTALL REGULATOR, 2PSI TO 0Z. PRESS. 2 1/2" TO 8 OZ. PRESS. VERIFY WITH BOILER EQUIP. SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND. PROVIDE LUBRICATED GAS COCK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING

1 1st FLOOR PLUMBING PLAN

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



STORM CATCH BASIN - SEE CIVIL DRAWINGS

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Title: 1st Floor Plumbing Plan
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PLUMBING KEYED NOTES	
1	EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
2	EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
3	EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
4	EXISTING ELEVATOR HIGH WATER ALARM BOX.
5	4" SAN SEWER ABOVE FLOOR.
6	3" SAN SEWER BELOW FLOOR.
7	OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS
8	2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (INLET).
9	2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
10	DOMESTIC COLD WATER RISER
11	DOMESTIC HOT WATER RISER
12	DOMESTIC HOT WATER RETURN RISER
13	GAS RISER FROM BELOW TO PENTHOUSE
14	ALL GAS PIPING INSIDE THE BUILDING MUST RUN ABOVE A LAY-IN CEILING (NO GAS LINE CAN RUN ABOVE A GYP BOARD OR FIXED CEILING)
15	FIXED AIR GAP WASTE IN BOX WITH STAINLESS STEEL DOOR-FOR HVAC CONDENSATE-SEE DETAIL
16	1 1/2" (2PSI) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL, INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING
17	DROP A 2" (2PSI) GAS LINE DOWN TO HVAC BOILER, INSTALL REGULATOR, 2PSI TO 8 OZ PRESS. 2 1/2" TO 8 OZ PRESS WITH BOILER EQUIP SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND PROVIDE LUBRICATED GAS COCK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING

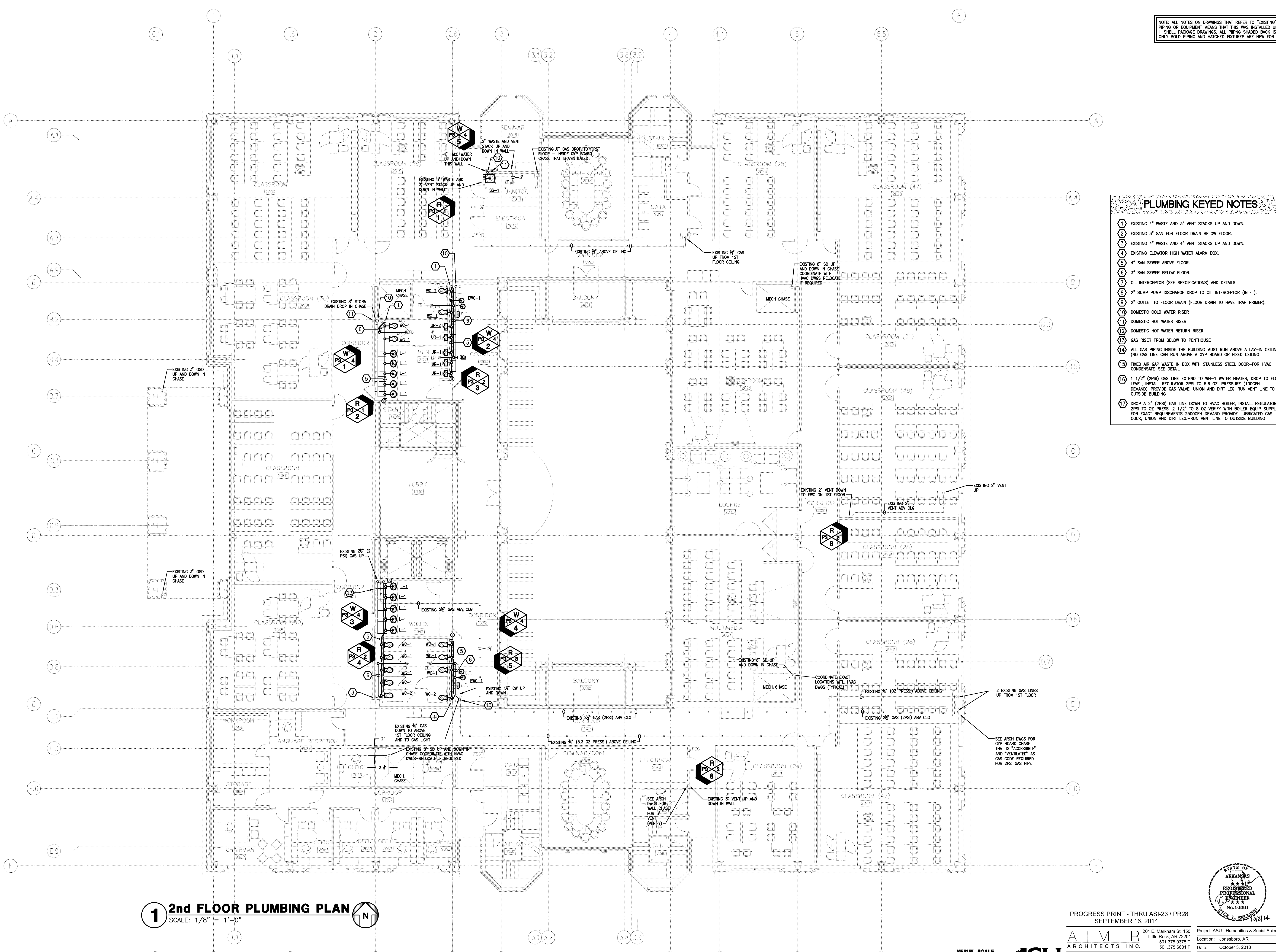
1 2nd FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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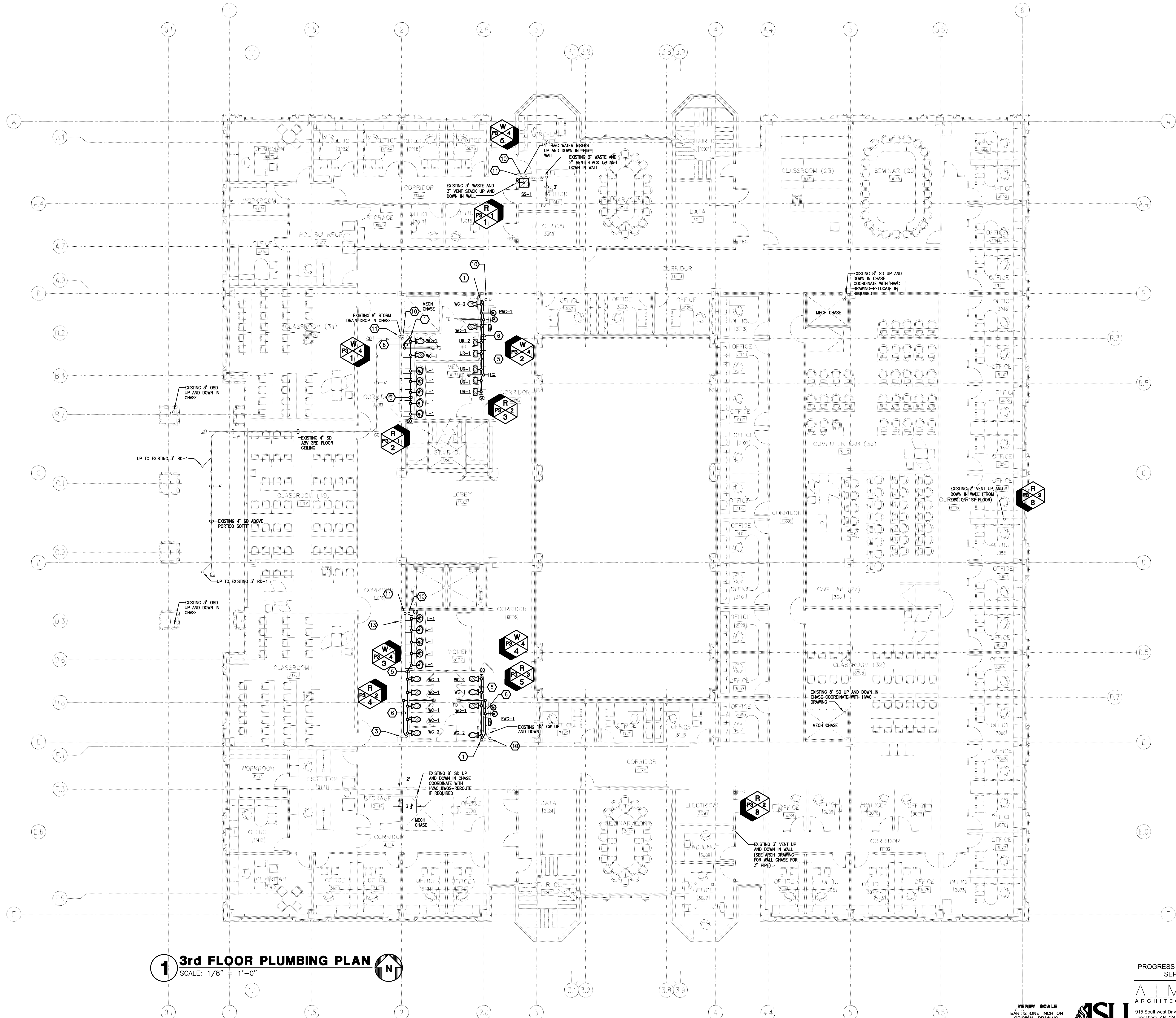
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 2nd Floor Plumbing Plan
Sheet Number: **P1.2**



NOTE: ALL NOTES ON DRAWINGS THAT REFER TO "EXISTING" PLUMBING PIPING OR EQUIPMENT MEANS THAT THIS WAS INSTALLED UNDER PHASE III SHELL PACKAGE DRAWINGS. ALL PIPING SHADED BACK IS EXISTING. ONLY BOLD PIPING AND HATCHED FIXTURES ARE NEW FOR THIS PHASE.



PLUMBING KEYED NOTES

- 1 EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
- 2 EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
- 3 EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
- 4 EXISTING ELEVATOR HIGH WATER ALARM BOX.
- 5 4" SAN SEWER ABOVE FLOOR.
- 6 3" SAN SEWER BELOW FLOOR.
- 7 OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS
- 8 2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (INLET).
- 9 2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
- 10 DOMESTIC COLD WATER RISER
- 11 DOMESTIC HOT WATER RISER
- 12 DOMESTIC HOT WATER RETURN RISER
- 13 GAS RISER FROM BELOW TO PENTHOUSE
- 14 ALL GAS PIPING INSIDE THE BUILDING MUST RUN ABOVE A LAY-IN CEILING (NO GAS LINE CAN RUN ABOVE A GYP BOARD OR FIXED CEILING)
- 15 FIXED AIR GAP WASTE IN BOX WITH STAINLESS STEEL DOOR-FOR HVAC CONDENSATE-SEE DETAIL
- 16 1 1/2" (2PS) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL, INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING
- 17 DROP A 2" (2PS) GAS LINE DOWN TO HVAC BOILER, INSTALL REGULATOR, 2PSI TO OZ PRESS. 2 1/2" TO 8 OZ VERIFY WITH BOILER EQUIP SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND PROVIDE LUBRICATED GAS COCK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING

1 3rd FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

VERIFY SCALE
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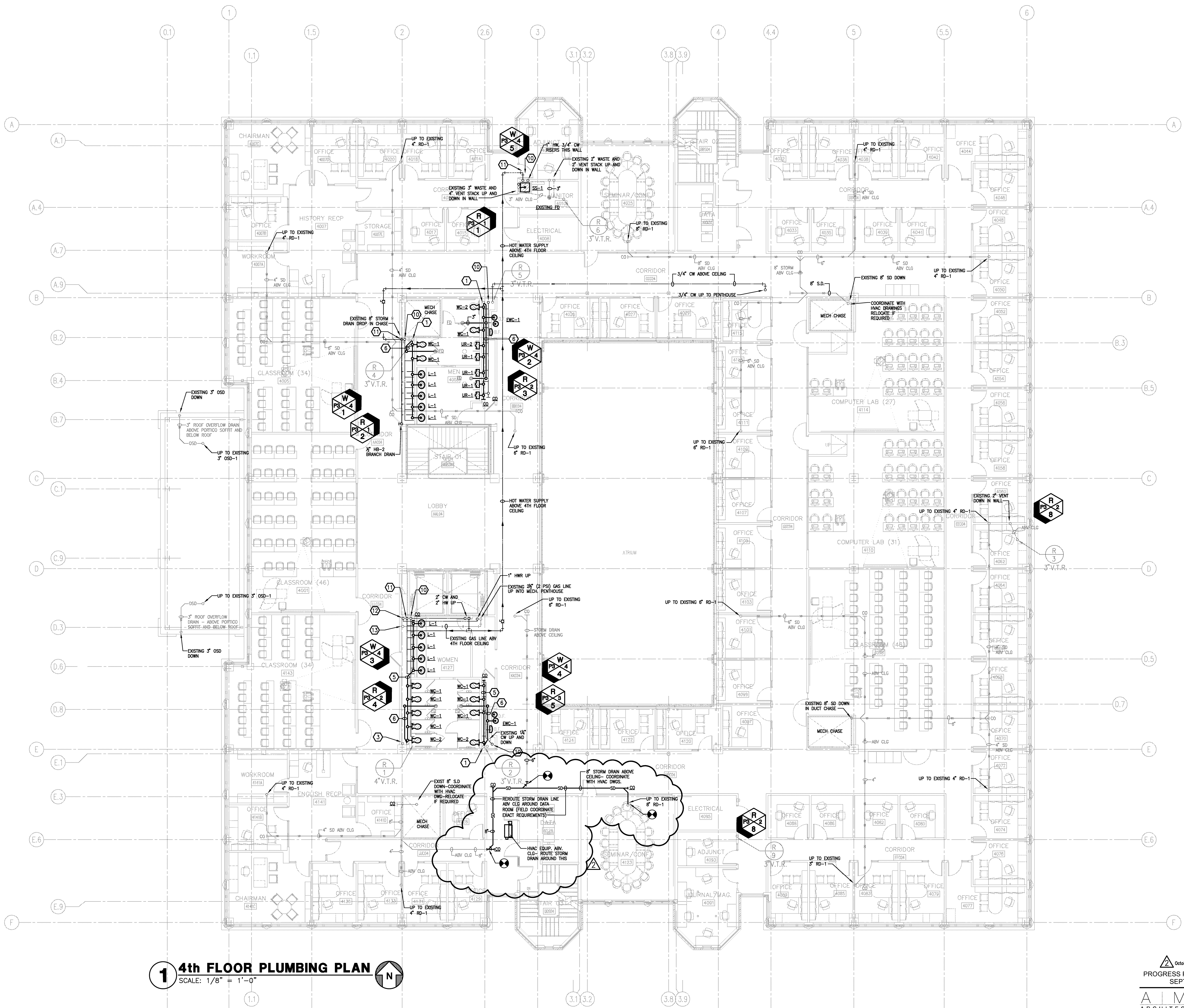
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201 E. Markham St. 150
Little Rock, AR 72201
501.375.0378 T
501.375.6801 F

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 3rd Floor Plumbing Plan
Sheet Number: **P1.3**



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SEPTEMBER 16, 2014

NOTE: ALL NOTES ON DRAWINGS THAT REFER TO "EXISTING" PLUMBING PIPING OR EQUIPMENT MEANS THAT THIS WAS INSTALLED UNDER PHASE III SHELL PACKAGE DRAWINGS. ALL PIPING SHADED BACK IS EXISTING. ONLY BOLD PIPING AND HATCHED FIXTURES ARE NEW FOR THIS PHASE.



- ### PLUMBING KEYED NOTES
- 1 EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
 - 2 EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
 - 3 EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
 - 4 EXISTING ELEVATOR HIGH WATER ALARM BOX.
 - 5 4" SAN SEWER ABOVE FLOOR.
 - 6 3" SAN SEWER BELOW FLOOR.
 - 7 OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS.
 - 8 2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (INLET).
 - 9 2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
 - 10 DOMESTIC COLD WATER RISER.
 - 11 DOMESTIC HOT WATER RISER.
 - 12 DOMESTIC HOT WATER RETURN RISER.
 - 13 GAS RISER FROM BELOW TO PENTHOUSE.
 - 14 ALL GAS PIPING INSIDE THE BUILDING MUST RUN ABOVE A LAY-IN CEILING (NO GAS LINE CAN RUN ABOVE A GYP BOARD OR FIXED CEILING).
 - 15 FIXED AIR GAP WASTE IN BOX WITH STAINLESS STEEL DOOR-FOR HVAC CONDENSATE-SEE DETAIL.
 - 16 1 1/2" (2PSI) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL, INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING.
 - 17 DROP A 2" (2PSI) GAS LINE DOWN TO HVAC BOILER, INSTALL REGULATOR, 2PSI TO OZ. PRESS. 2 1/2" TO 8 OZ VERIFY WITH BOILER EQUIP SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND PROVIDE LUBRICATED GAS COOK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING.

1 4th FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

October 21, 2013
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: 4th Floor Plumbing Plan
Sheet Number: **P1.4**

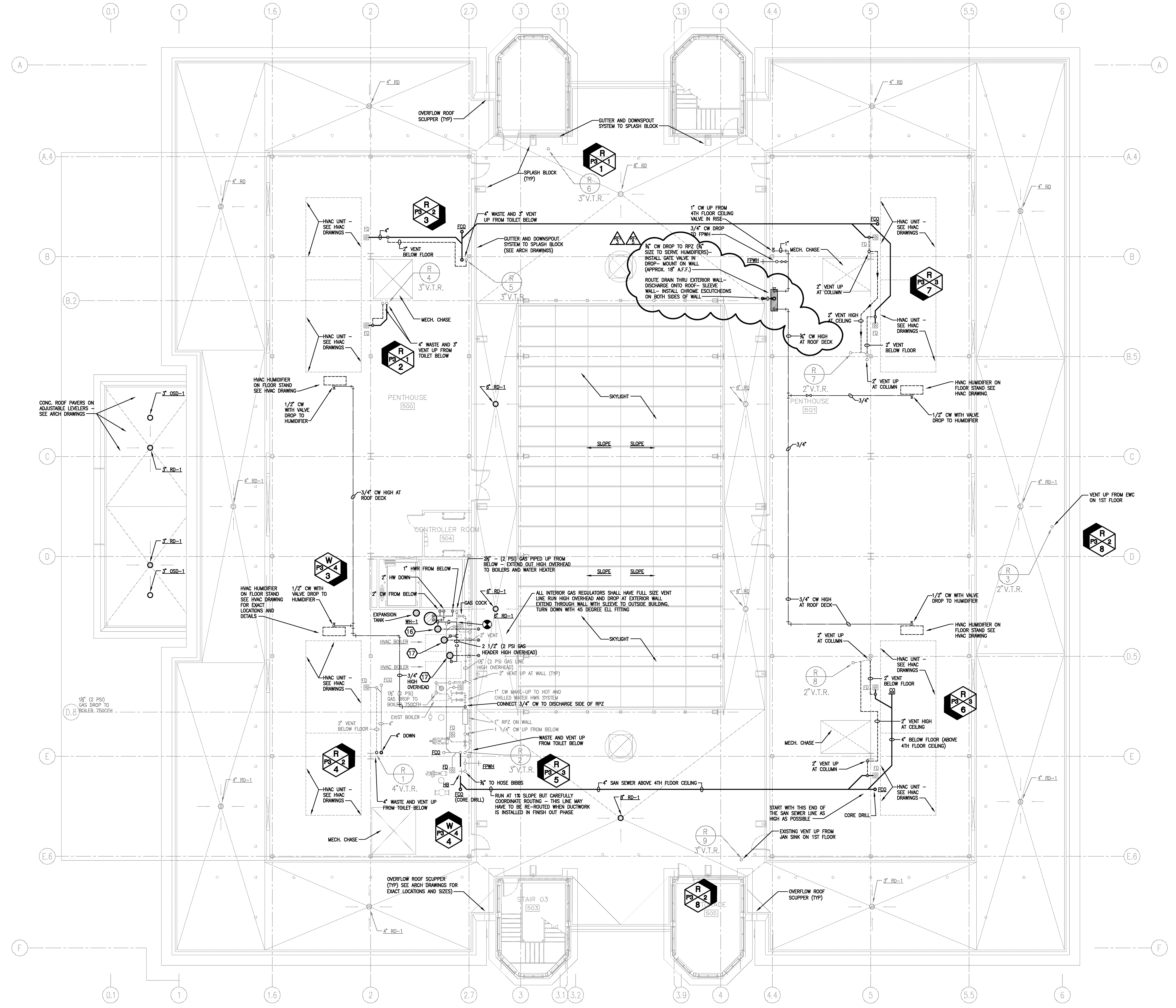
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PLUMBING KEYED NOTES

- 1 EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
- 2 EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
- 3 EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
- 4 EXISTING ELEVATOR HIGH WATER ALARM BOX.
- 5 4" SAN SEWER ABOVE FLOOR.
- 6 3" SAN SEWER BELOW FLOOR.
- 7 OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS
- 8 2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (INLET).
- 9 2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
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- 12 DOMESTIC HOT WATER RETURN RISER
- 13 GAS RISER FROM BELOW TO PENTHOUSE
- 14 ALL GAS PIPING INSIDE THE BUILDING MUST RUN ABOVE A LAY-IN CEILING (NO GAS LINE CAN RUN ABOVE A GYP BOARD OR FIXED CEILING)
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- 16 1 1/2" (2PSI) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL, INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING
- 17 DROP A 2" (2PSI) GAS LINE DOWN TO HVAC BOILER, INSTALL REGULATOR, 2PSI TO 0Z PRESS. 2 1/2" TO 8 OZ VERY WITH BOILER EQUIP SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND PROVIDE LUBRICATED GAS COCK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING



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

March 10, 2014
April 23, 2014

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870.933-6988 FAX.

Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Penthouse Plumbing Plan
Sheet Number: **P1.5**

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- ### PLUMBING KEYED NOTES
- 1 EXISTING 4" WASTE AND 3" VENT STACKS UP AND DOWN.
 - 2 EXISTING 3" SAN FOR FLOOR DRAIN BELOW FLOOR.
 - 3 EXISTING 4" WASTE AND 4" VENT STACKS UP AND DOWN.
 - 4 EXISTING ELEVATOR HIGH WATER ALARM BOX.
 - 5 4" SAN SEWER ABOVE FLOOR.
 - 6 3" SAN SEWER BELOW FLOOR.
 - 7 OIL INTERCEPTOR (SEE SPECIFICATIONS) AND DETAILS
 - 8 2" SUMP PUMP DISCHARGE DROP TO OIL INTERCEPTOR (NLET).
 - 9 2" OUTLET TO FLOOR DRAIN (FLOOR DRAIN TO HAVE TRAP PRIMER).
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 - 11 DOMESTIC HOT WATER RISER
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 - 16 1 1/2" (2PSI) GAS LINE EXTEND TO WH-1 WATER HEATER, DROP TO FLOOR LEVEL. INSTALL REGULATOR 2PSI TO 5.6 OZ. PRESSURE (100CFH DEMAND)-PROVIDE GAS VALVE, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING
 - 17 DROP A 2" (2PSI) GAS LINE DOWN TO HVAC BOILER. INSTALL REGULATOR. 2PSI TO OZ. PRESS. 2 1/2" TO 8 OZ. VERIFY WITH BOILER EQUIP SUPPLIER FOR EXACT REQUIREMENTS 2500CFH DEMAND. PROVIDE LUBRICATED GAS COCK, UNION AND DIRT LEG-RUN VENT LINE TO OUTSIDE BUILDING

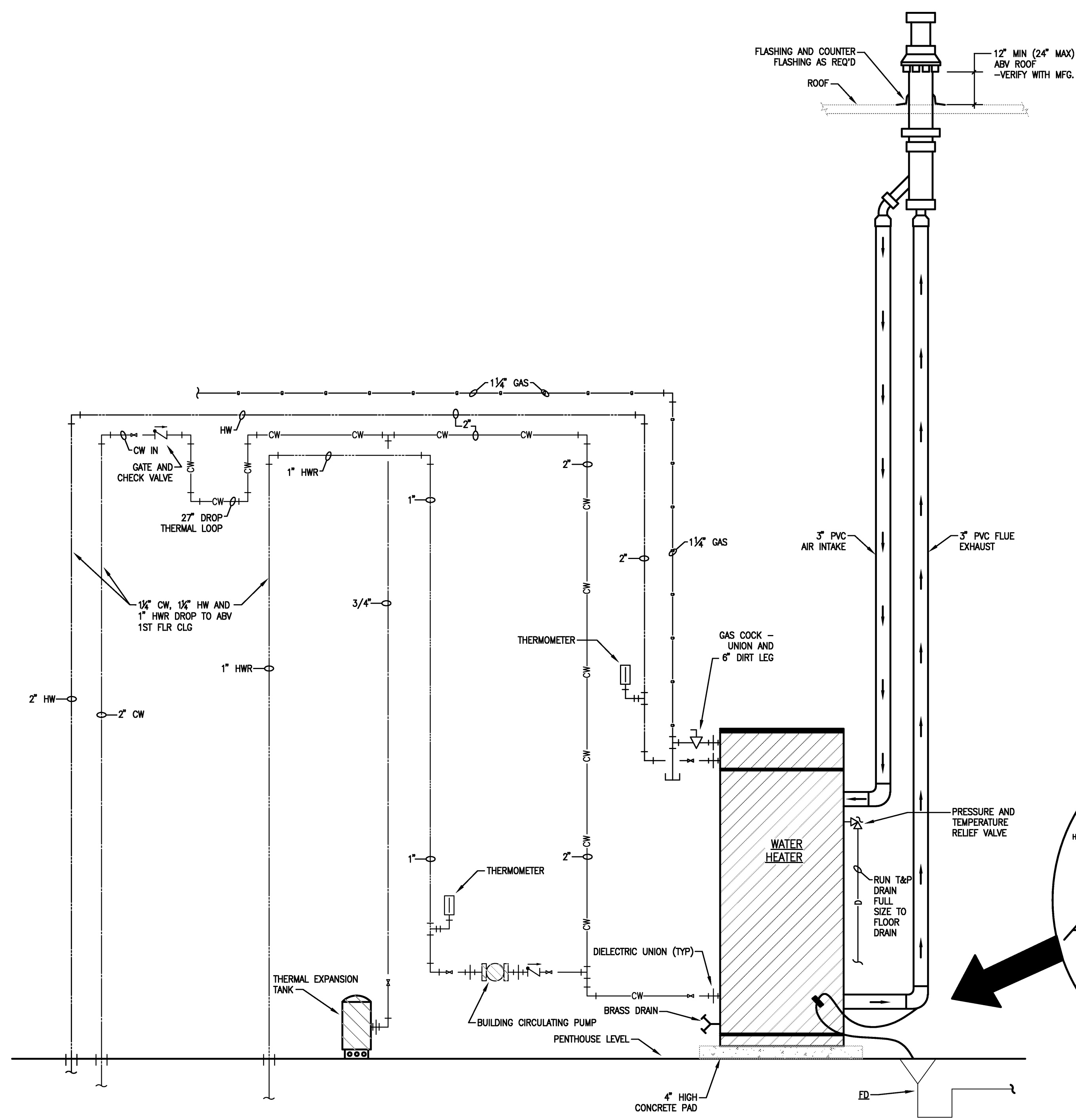
1 ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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SEPTEMBER 16, 2014

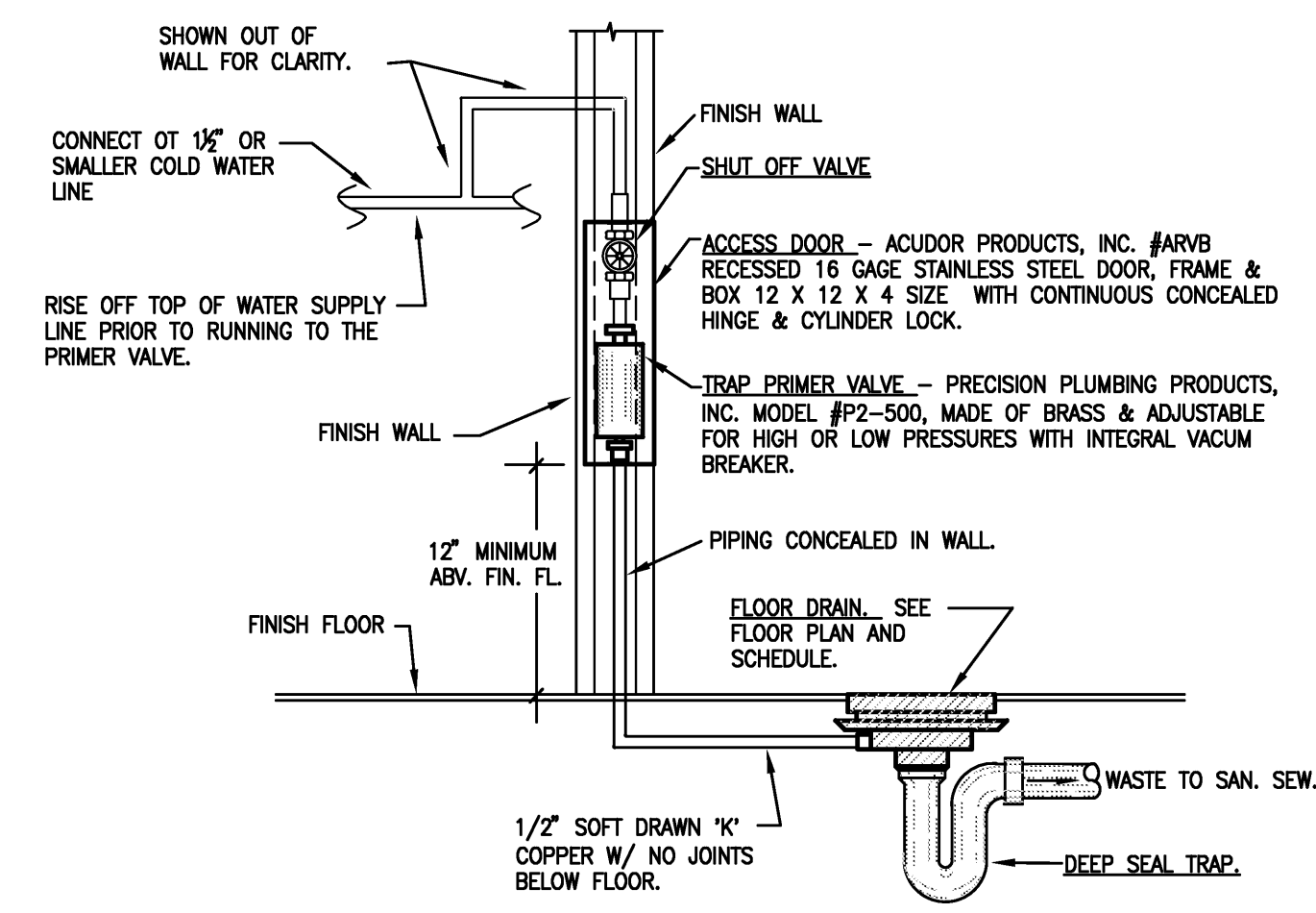
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 Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: Roof Plumbing Plan
 Sheet Number: **P1.6**

VERIFY SCALE
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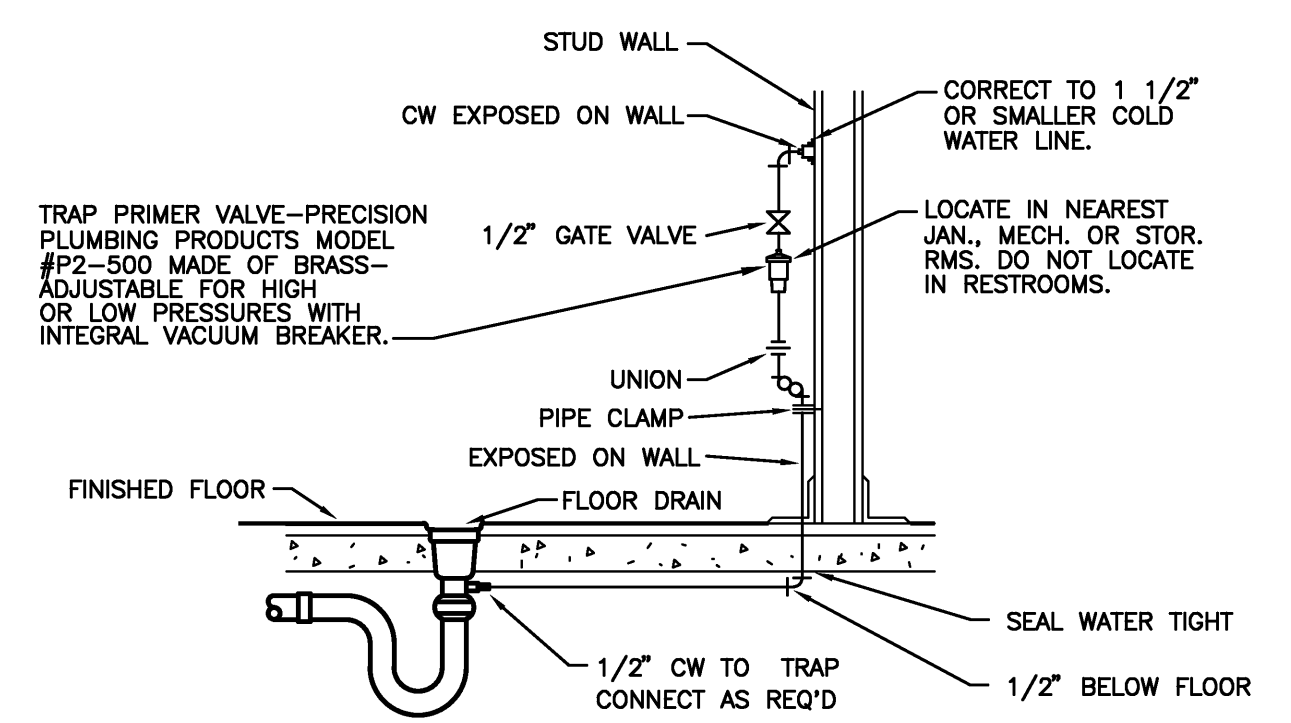




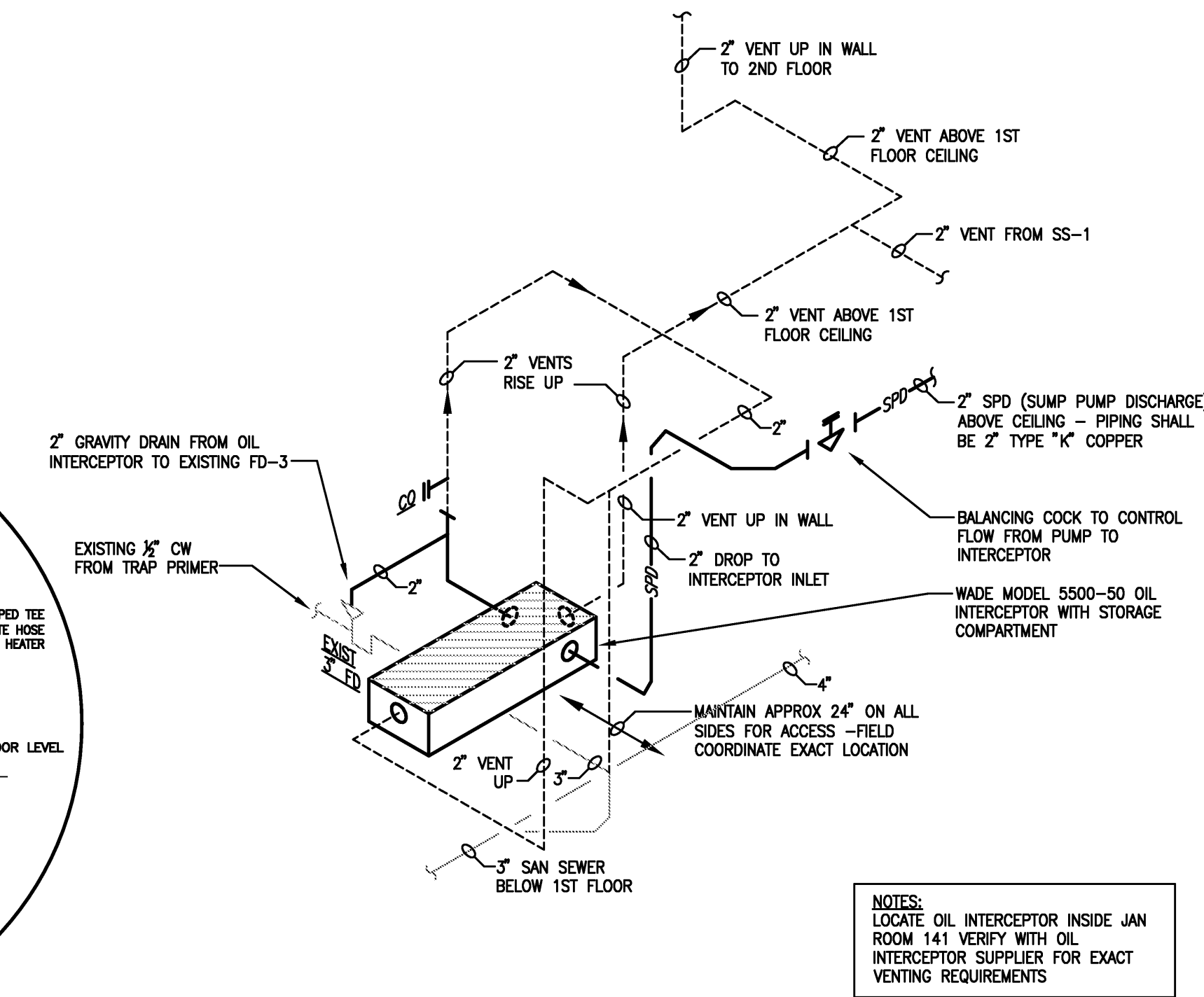
1 WH-1 (WATER HEATER) PIPING DETAIL
SCALE: NONE



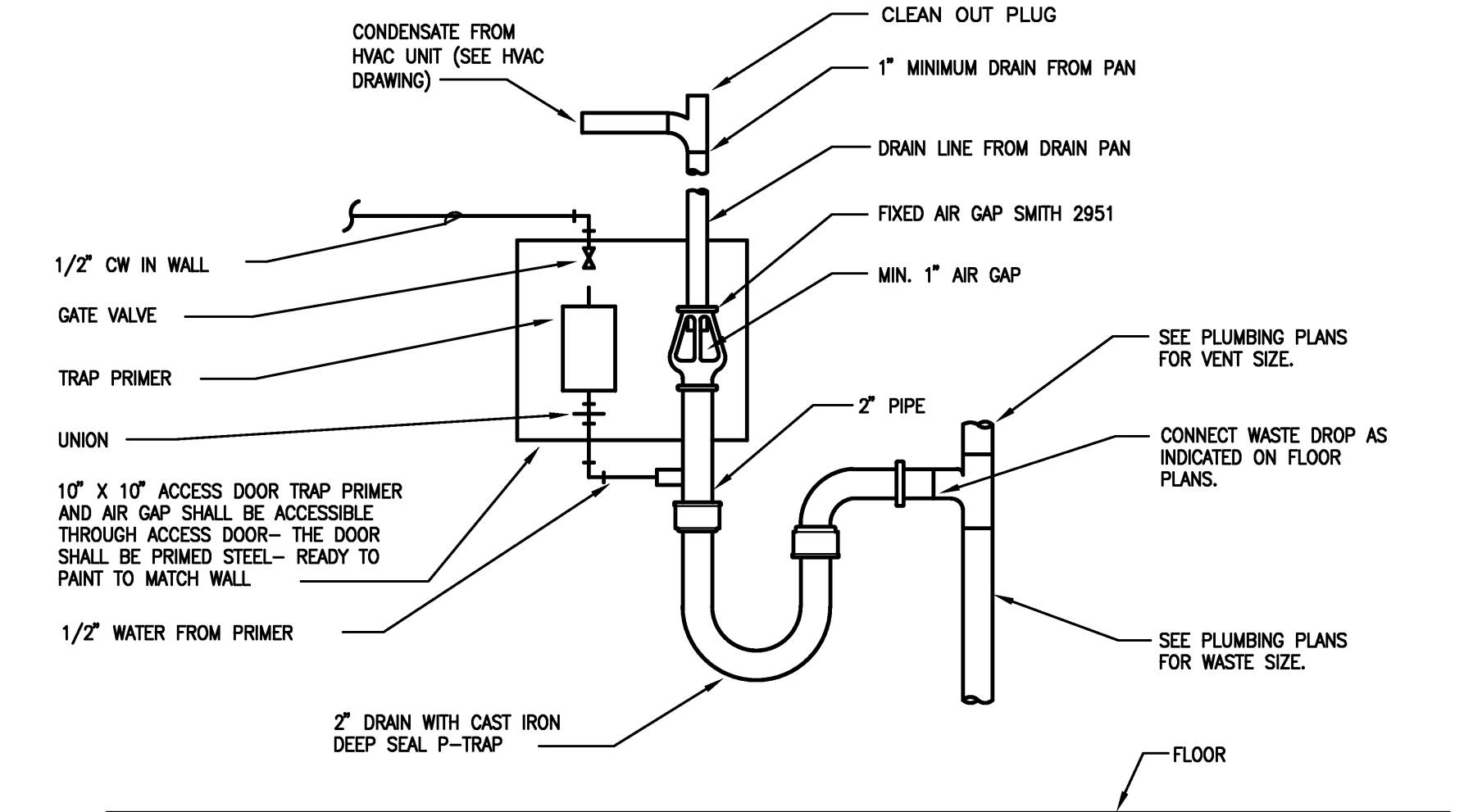
2 TRAP PRIMER DETAIL
SCALE: NONE (FOR CONCEALED LOCATIONS)



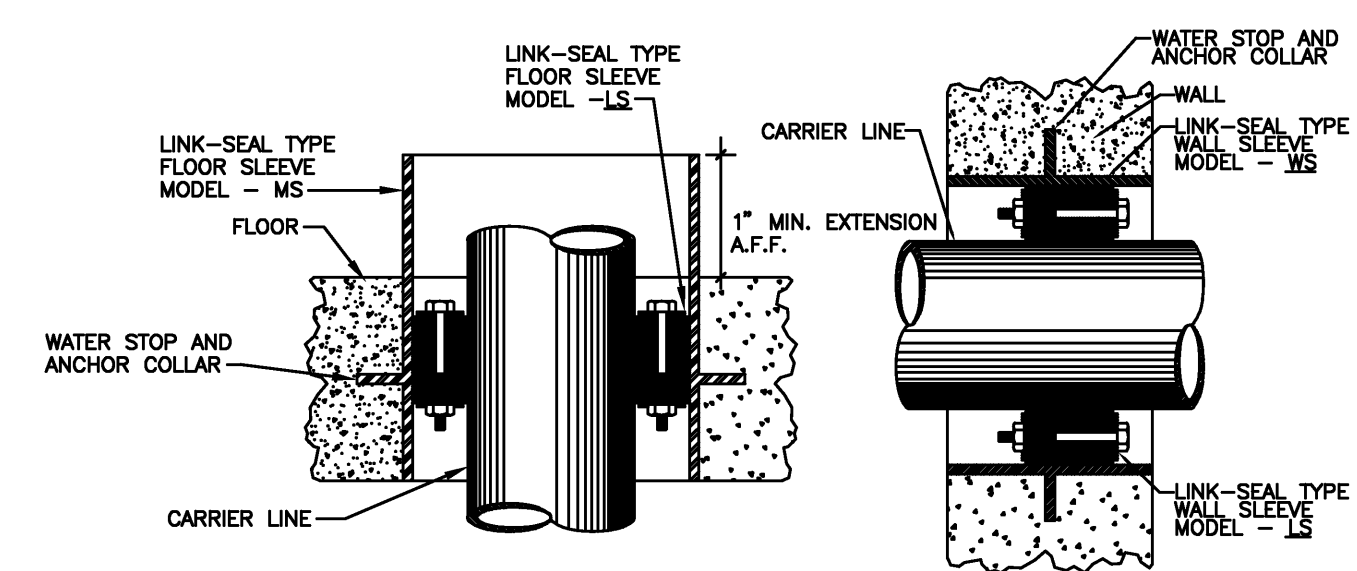
3 TRAP PRIMER TO FLOOR DRAIN
SCALE: NONE (FOR EXPOSED LOCATIONS)



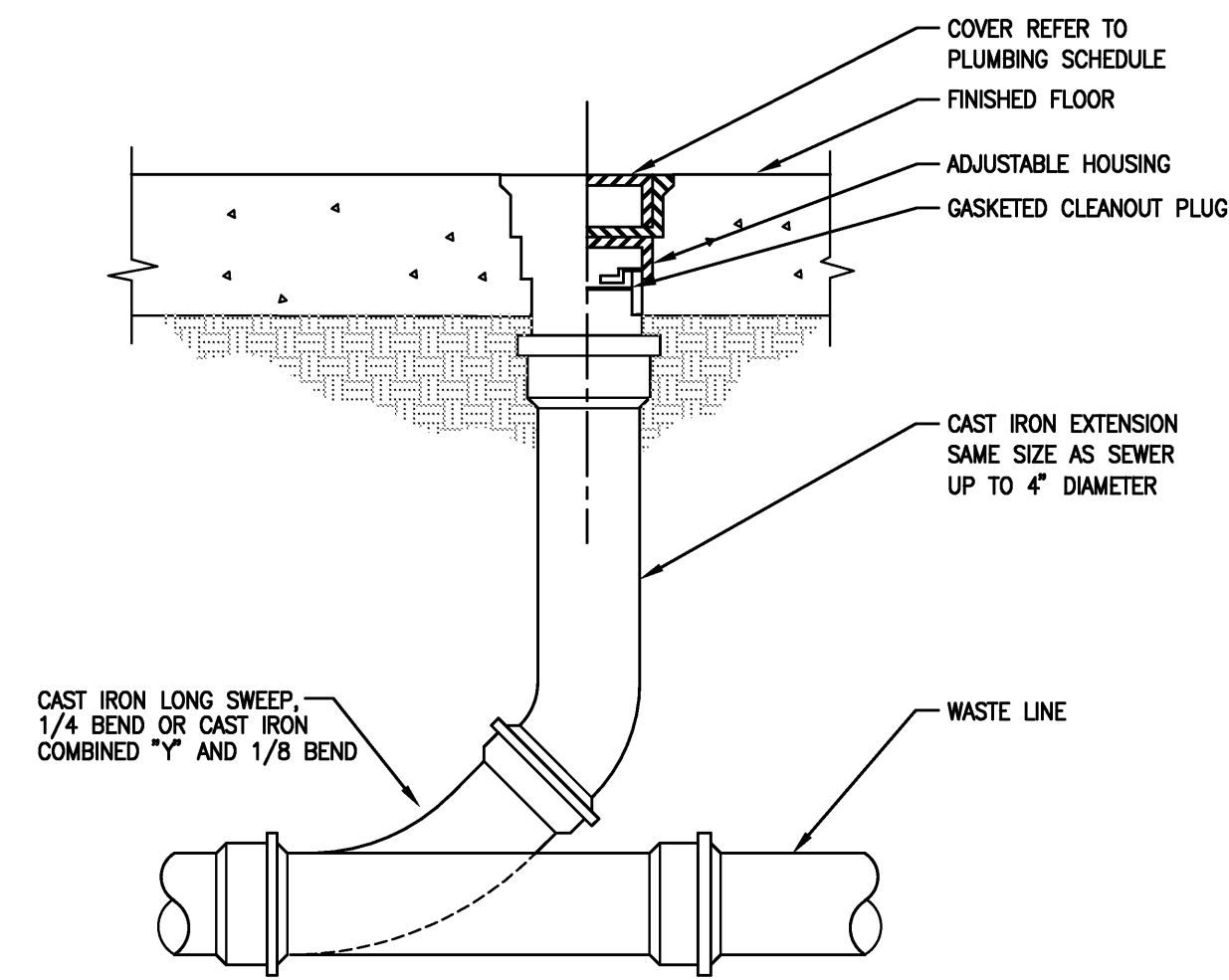
4 ELEVATOR SUMP PUMP DISCHARGE INTO OIL INTERCEPTOR
SCALE: NONE



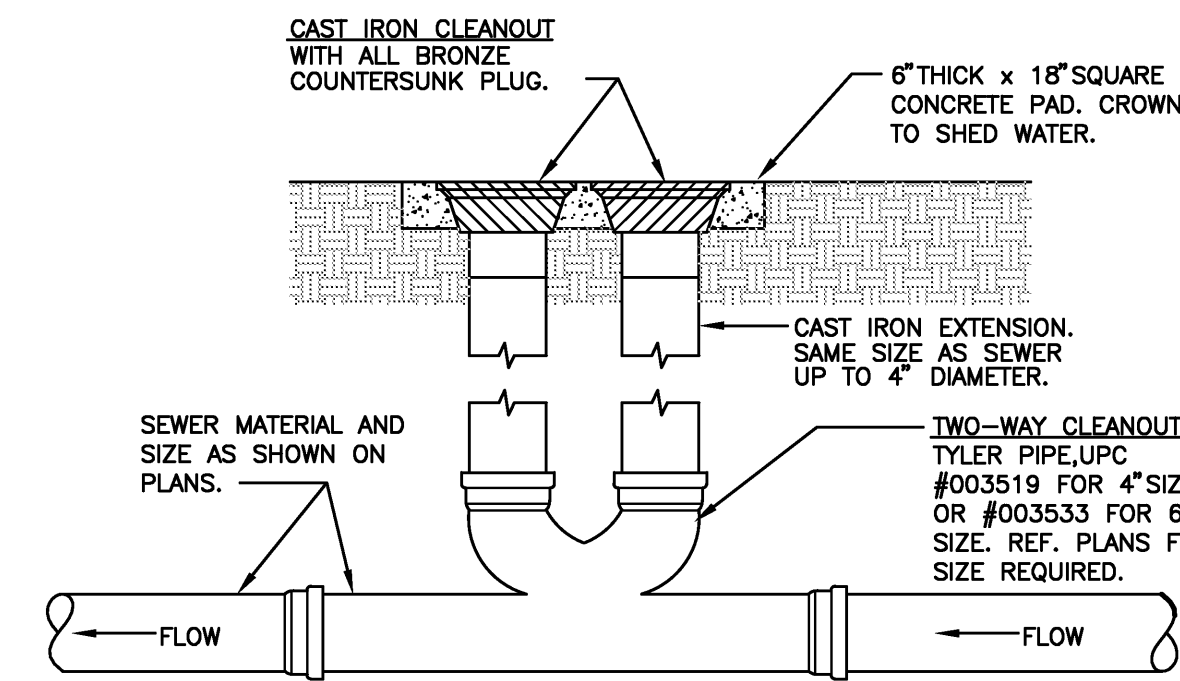
9 FIXED AIR GAP WASTE DETAIL
SCALE: NONE



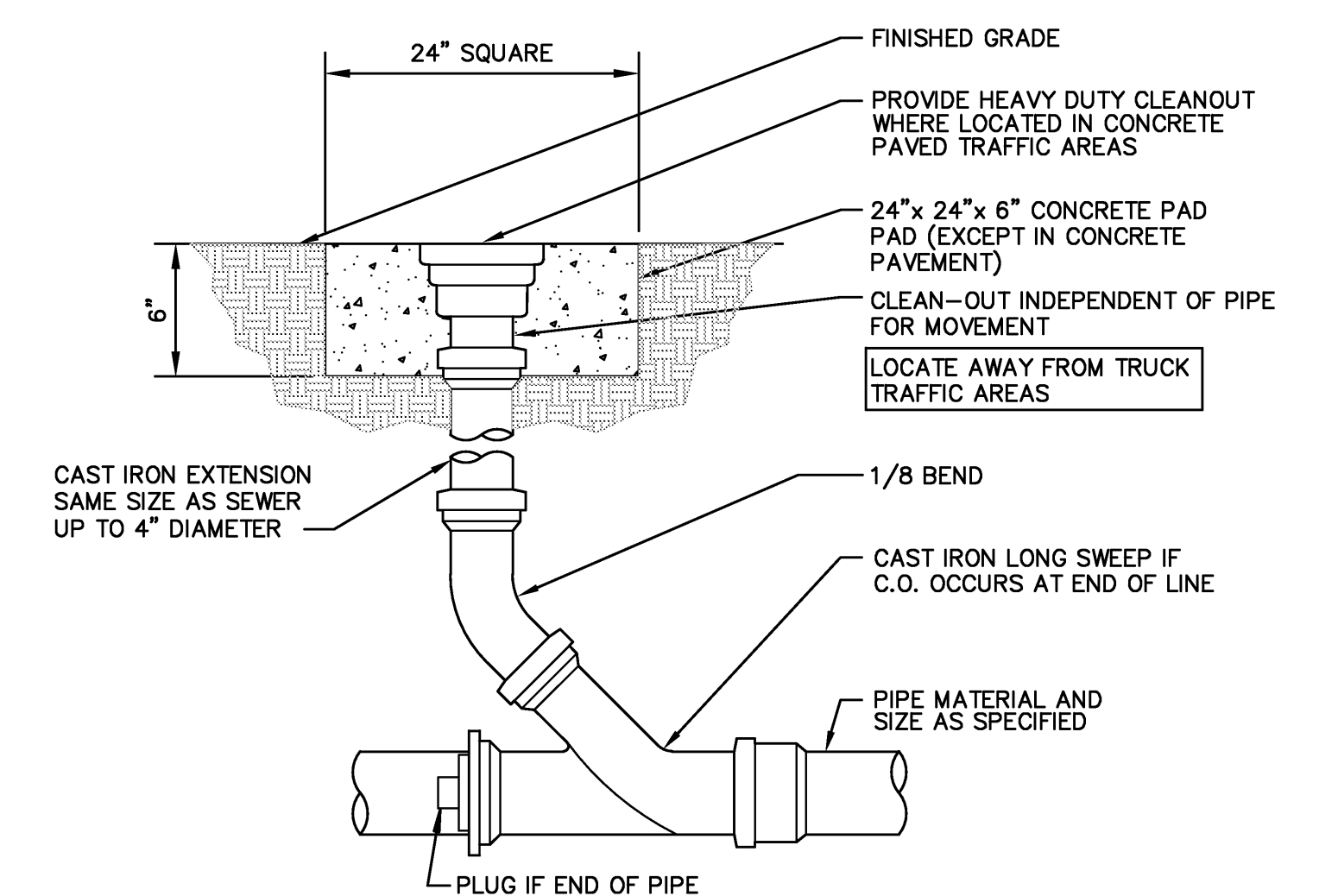
5 WATERPROOF SLEEVE DETAIL
SCALE: NONE (TYPICAL FOR ALL MAIN WATER AND FIRE PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)



6 FLOOR CLEAN-OUT (FCO)
SCALE: NONE



7 TWO-WAY CLEANOUT TO GRADE DETAIL
SCALE: NONE



8 EXTERIOR CLEAN-OUT (ECO)
SCALE: NONE

VERIFY SCALE
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0 1"
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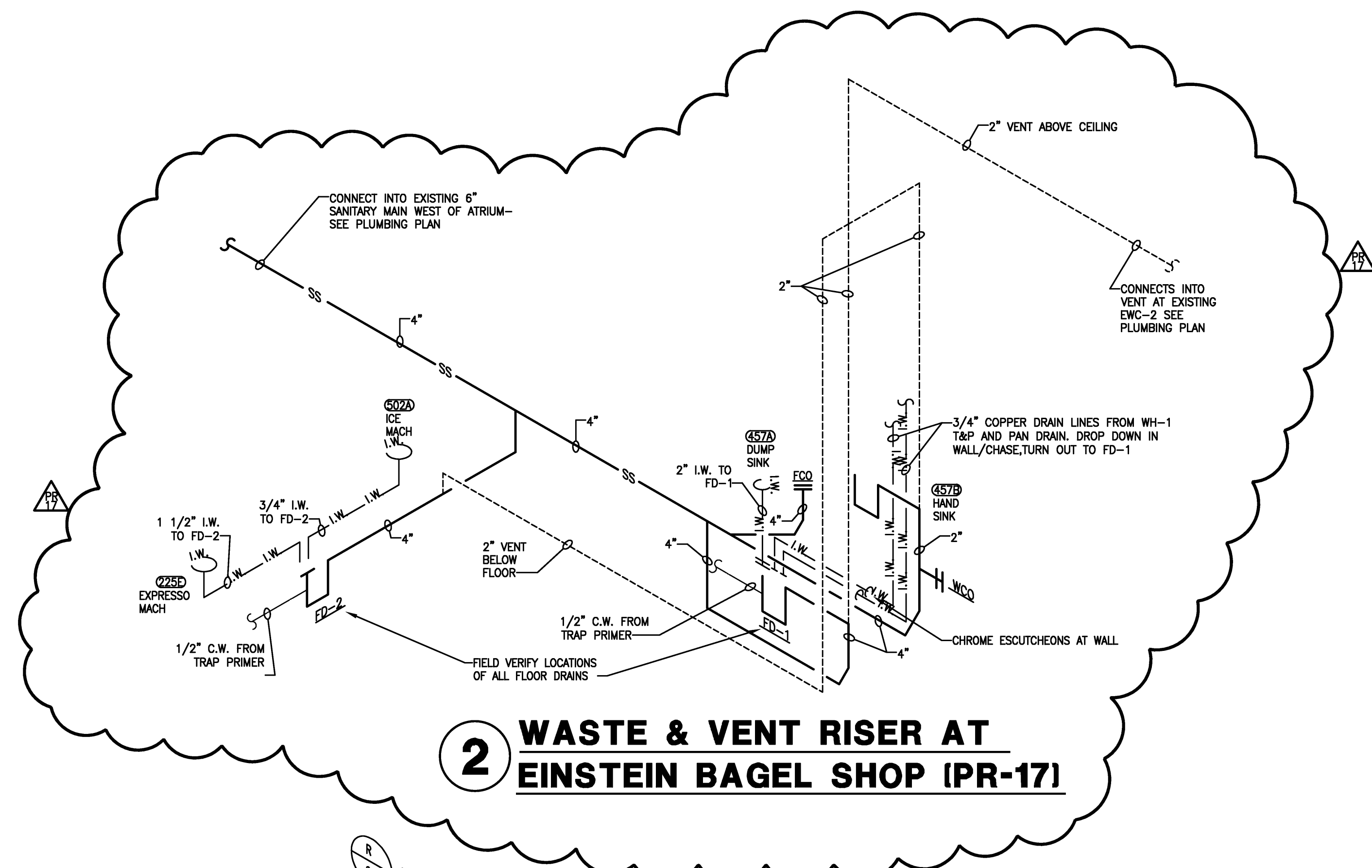
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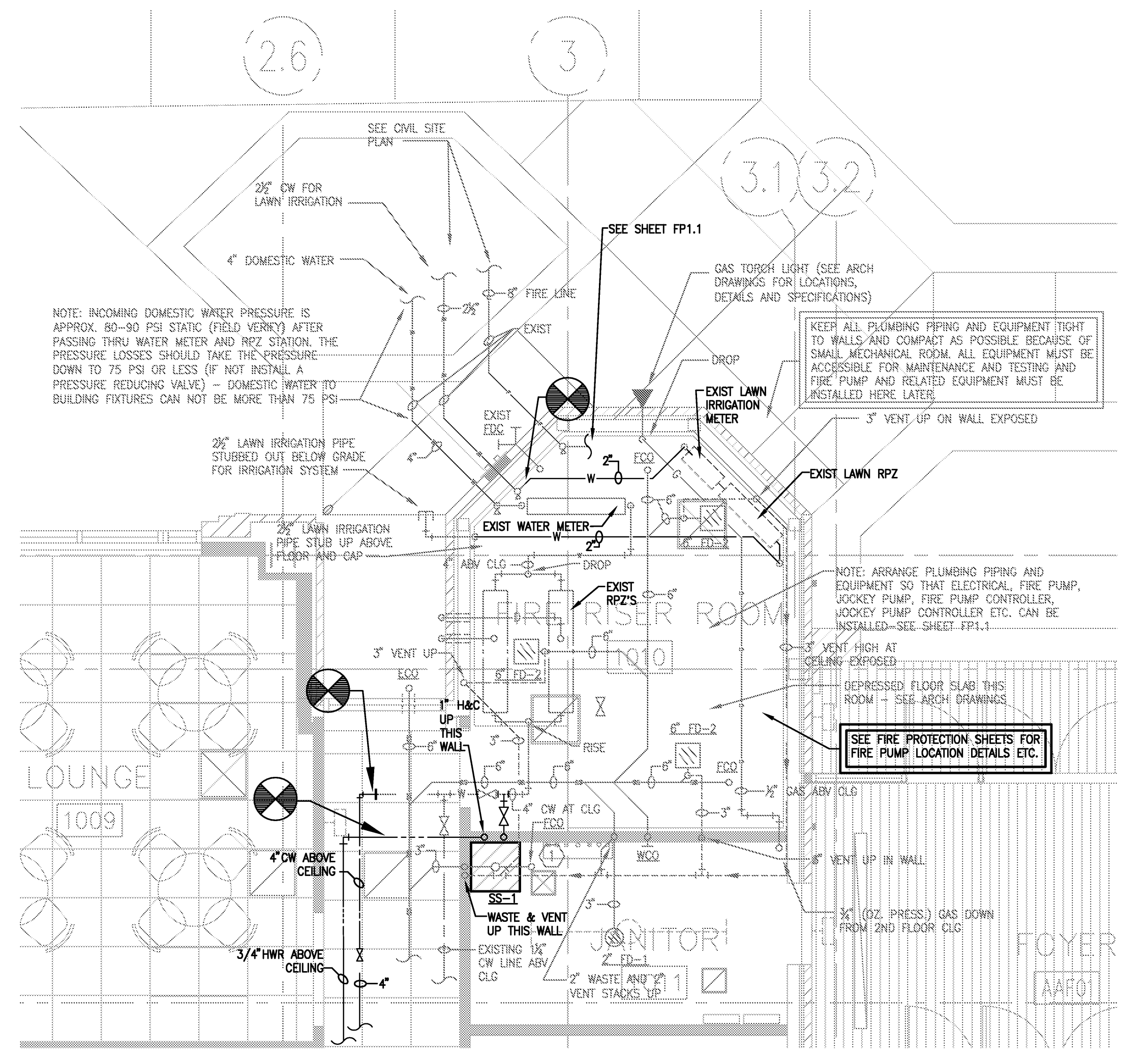
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Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Plumbing Details
Sheet Number: **P2.1**

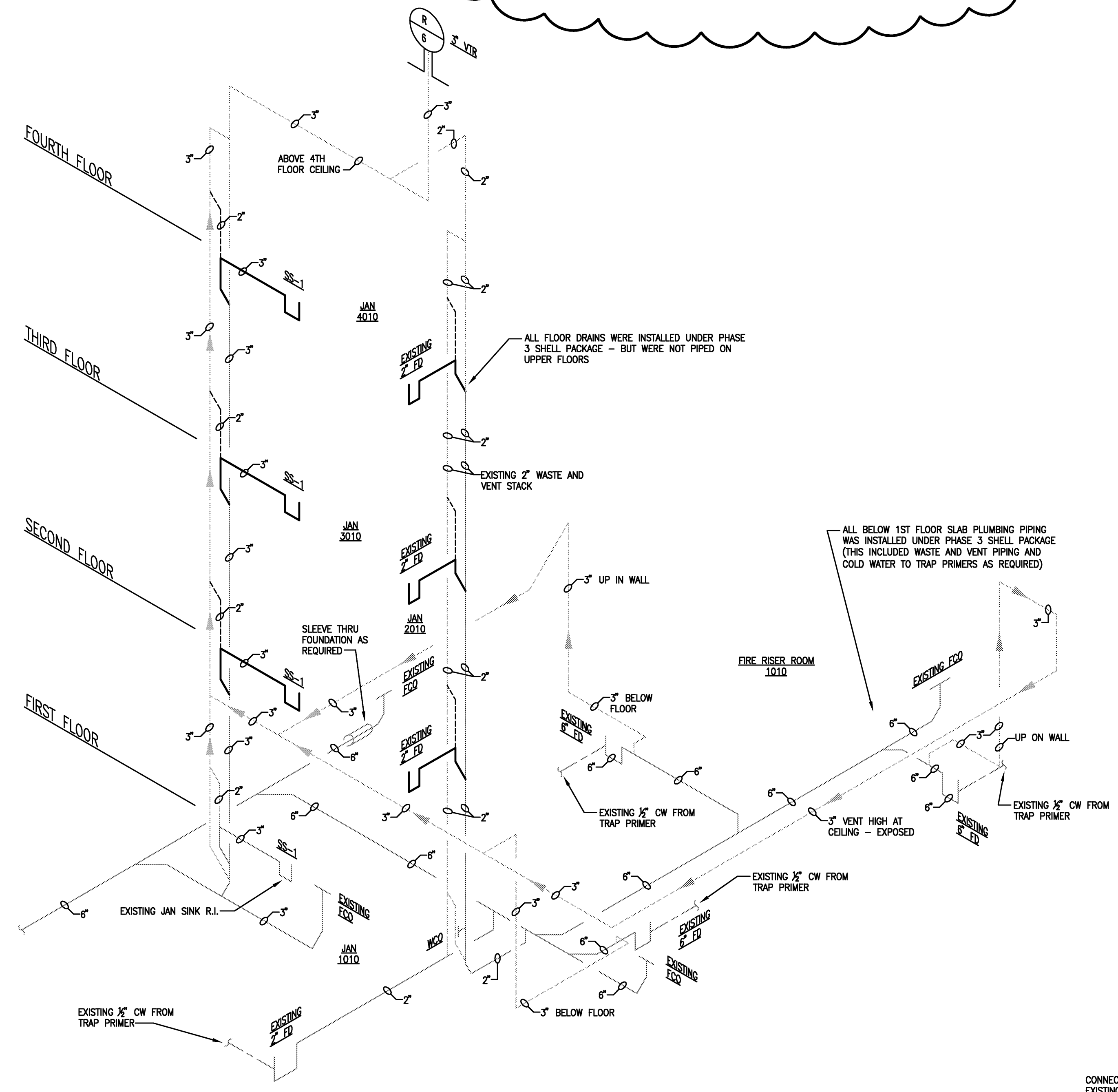


2 WASTE & VENT RISER AT EINSTEIN BAGEL SHOP (IPR-171)

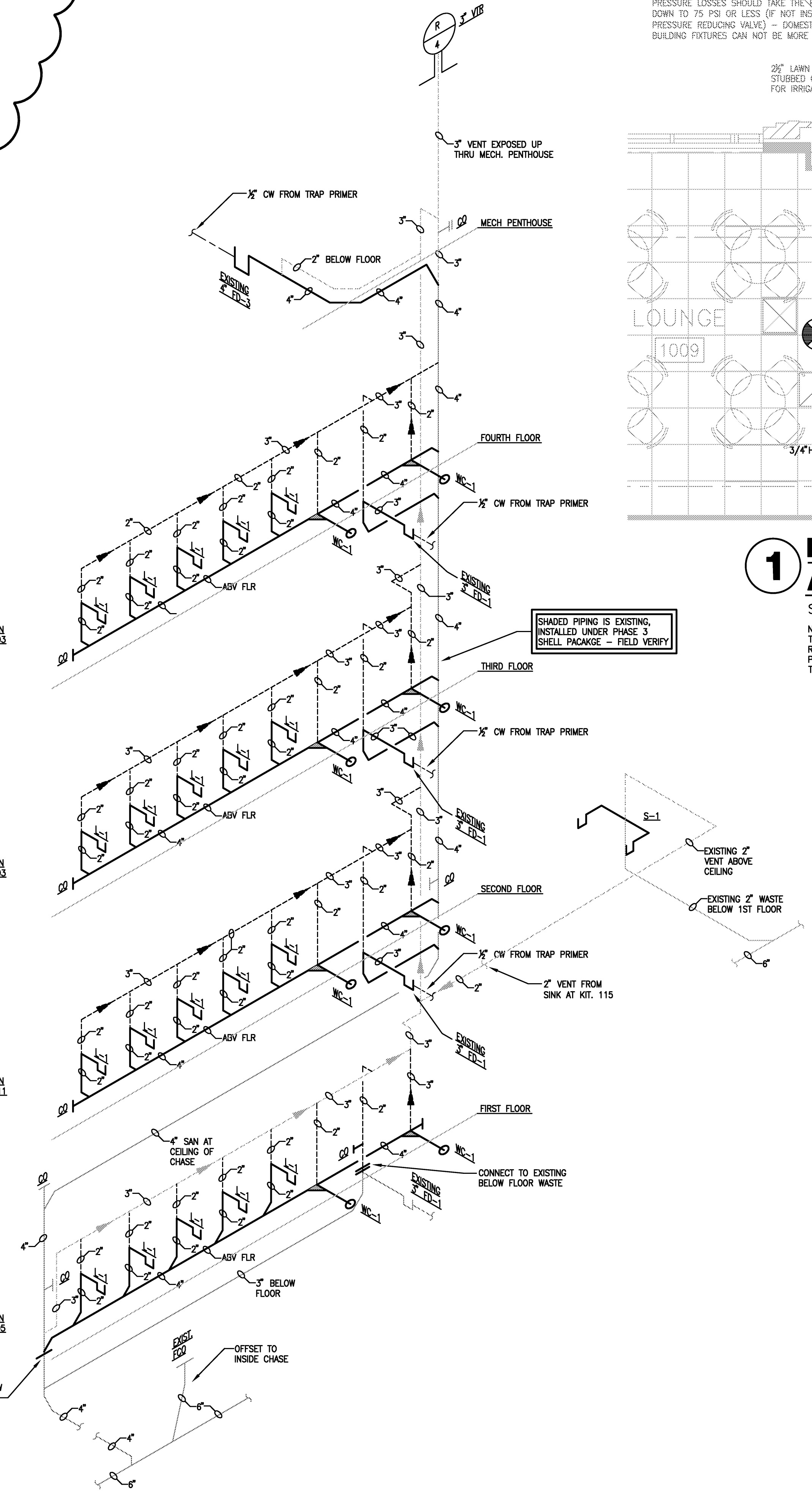


1 PARTIAL PLUMBING PLAN AT FIRE RISER ROOM #1010

SCALE: 1/4" = 1'-0"
 NOTE: MOST OF THIS EQUIPMENT AND PIPING WAS INSTALLED UNDER THE SHELL PACKAGE-NEW CONNECTIONS, AND HOOK UPS ARE REQUIRED IN THE FINAL FINISH OUT PACKAGE. SHADDED EQUIPMENT AND PIPING DENOTES EXISTING BOLD EQUIPMENT AND PIPING DENOTES NEW THIS PHASE.



WASTE AND VENT RISER AT FIRE RISER ROOM 1010, JAN ROOM 1011, 2012, 3010, 4010
 SCALE: NONE



WASTE AND VENT RISER AT MEN 1005, MEN 2011, MEN 3003 AND MEN 4003 (WEST SIDE)
 SCALE: NONE

VERIFY SCALE
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 0 1"
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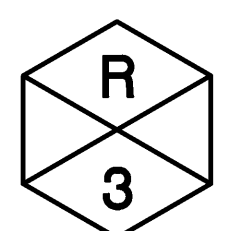
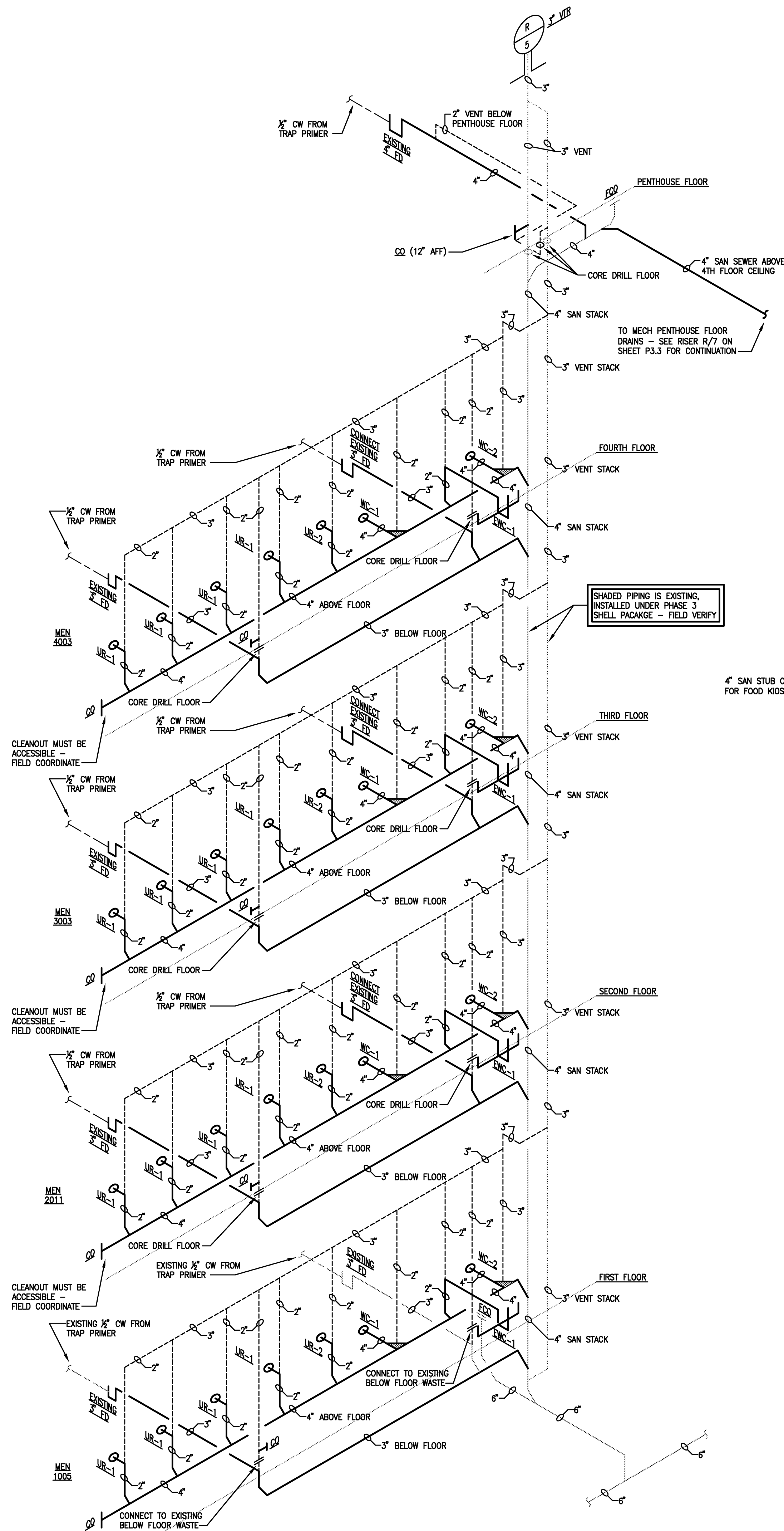


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
 Location: Jonesboro, AR
 Date: October 3, 2013
 Title: Plumbing Risers
 Sheet Number: **P3.1**

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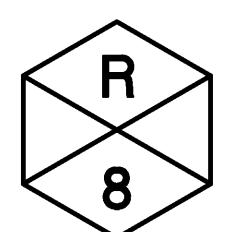


WASTE AND VENT RISER AT MEN 1005, MEN 2011, MEN 3003 AND MEN 4003 (EAST SIDE)

SCALE: NONE

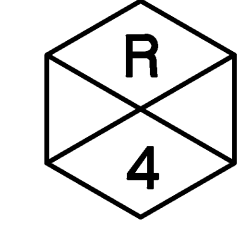
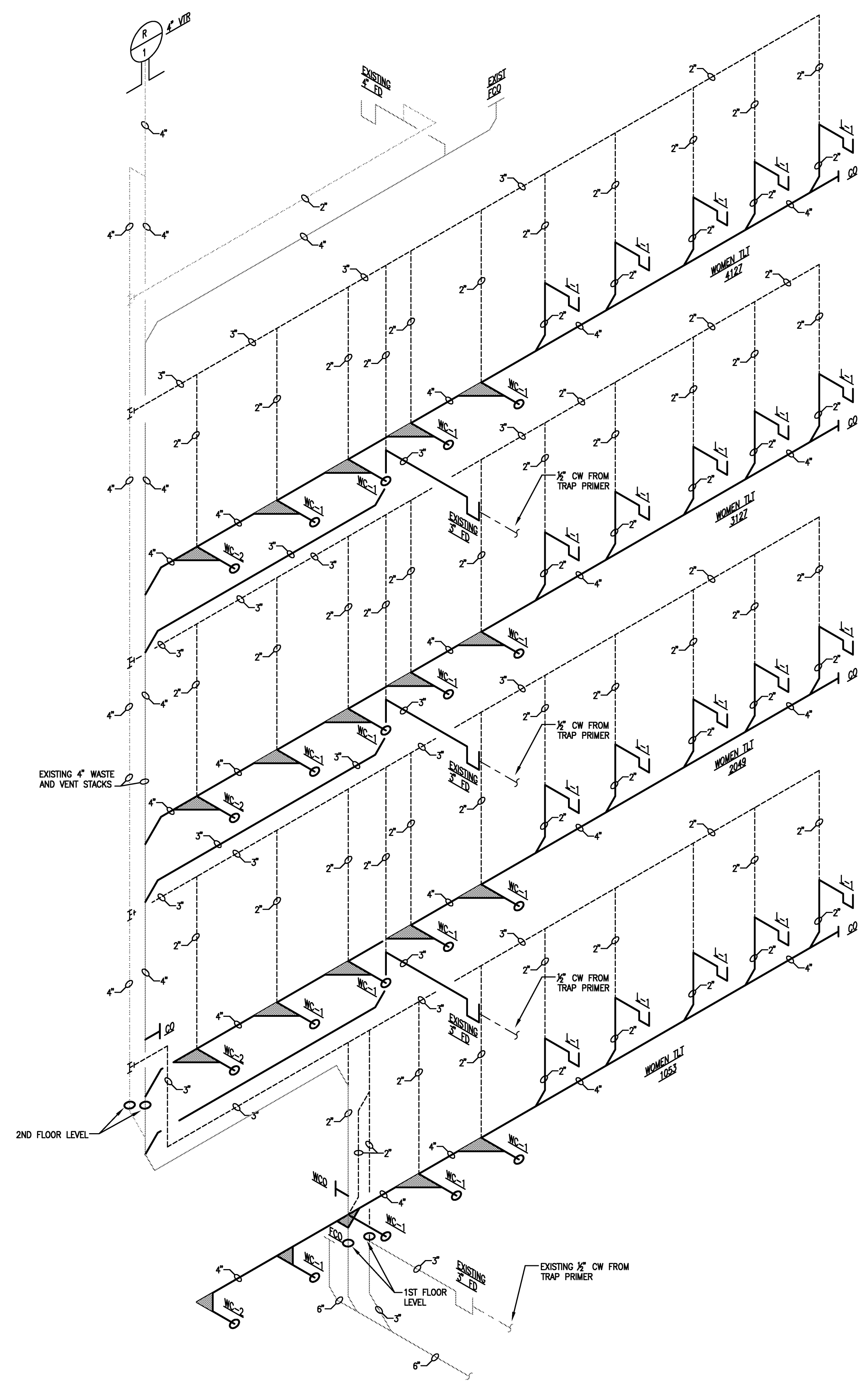
SHADED PIPING IS EXISTING, INSTALLED UNDER PHASE 3 SHELL PACKAGE - FIELD VERIFY

4\"/>



WASTE AND VENT RISER AT JAN 1043 AND EWC AT CORRIDOR BBC01

SCALE: NONE



WASTE AND VENT RISER AT WOMEN 1053, 2049, 3127 AND 4127 (WEST SIDE)

SCALE: NONE

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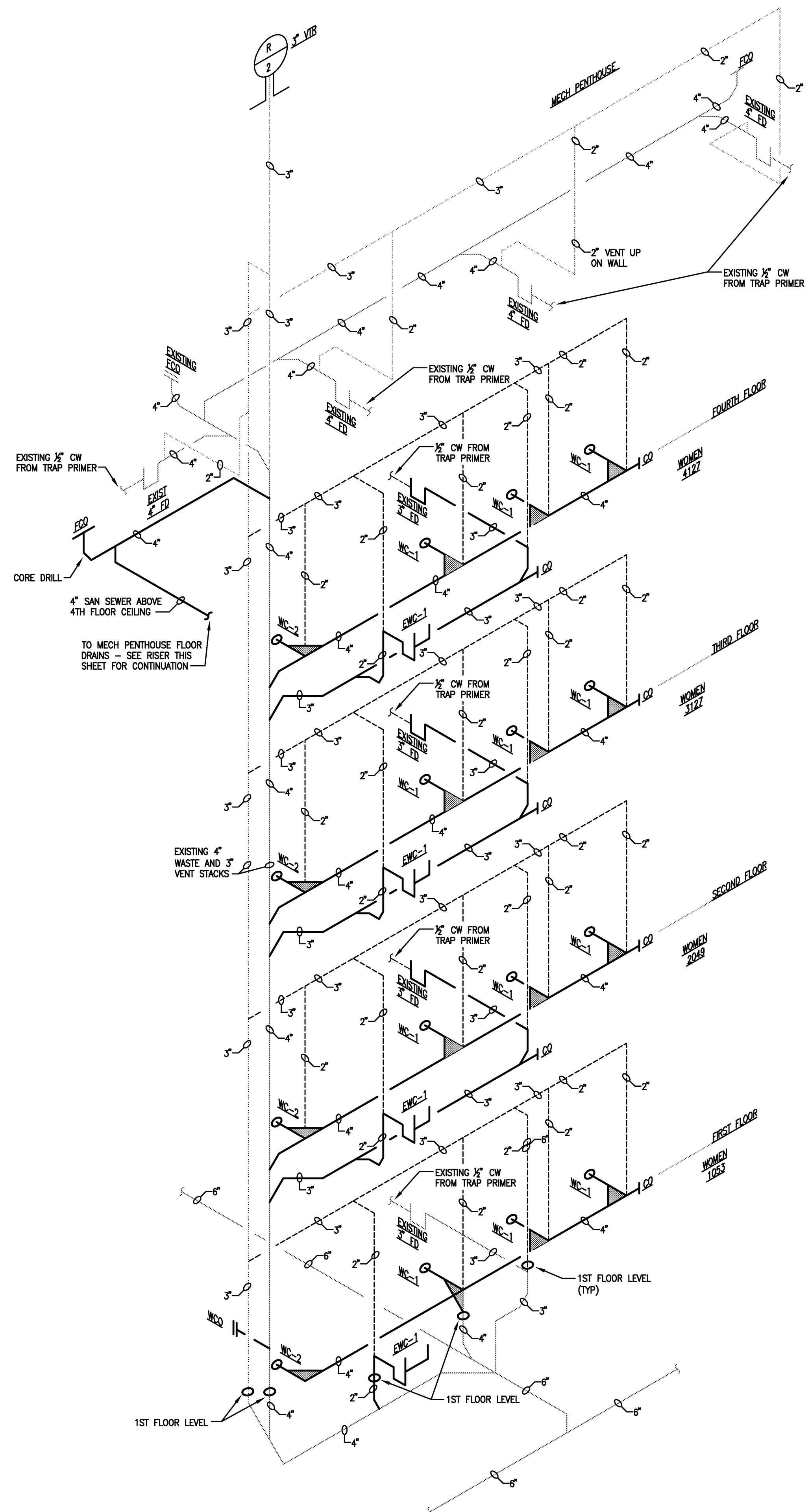


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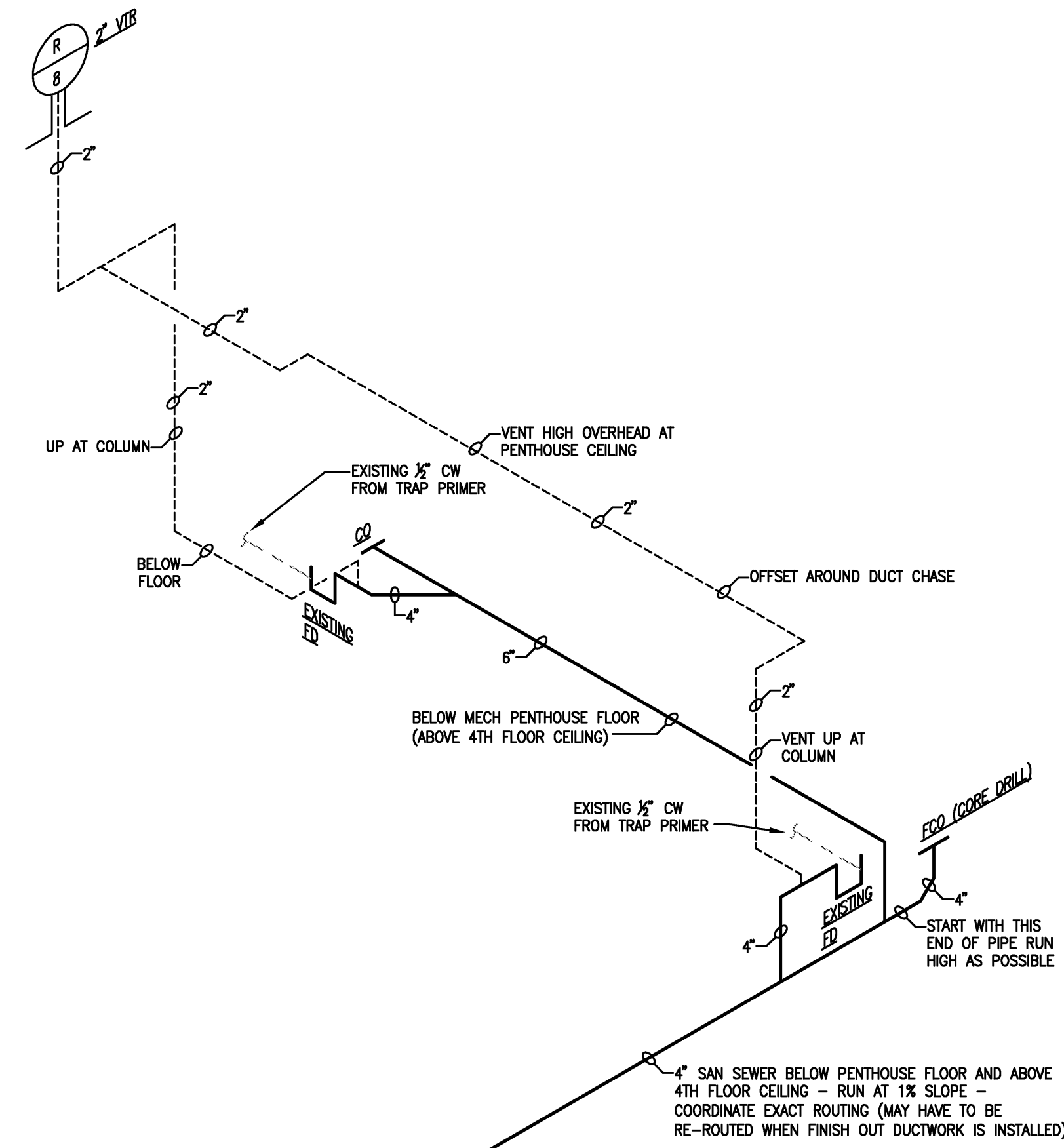


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Plumbing Risers
Sheet Number: **P3.2**

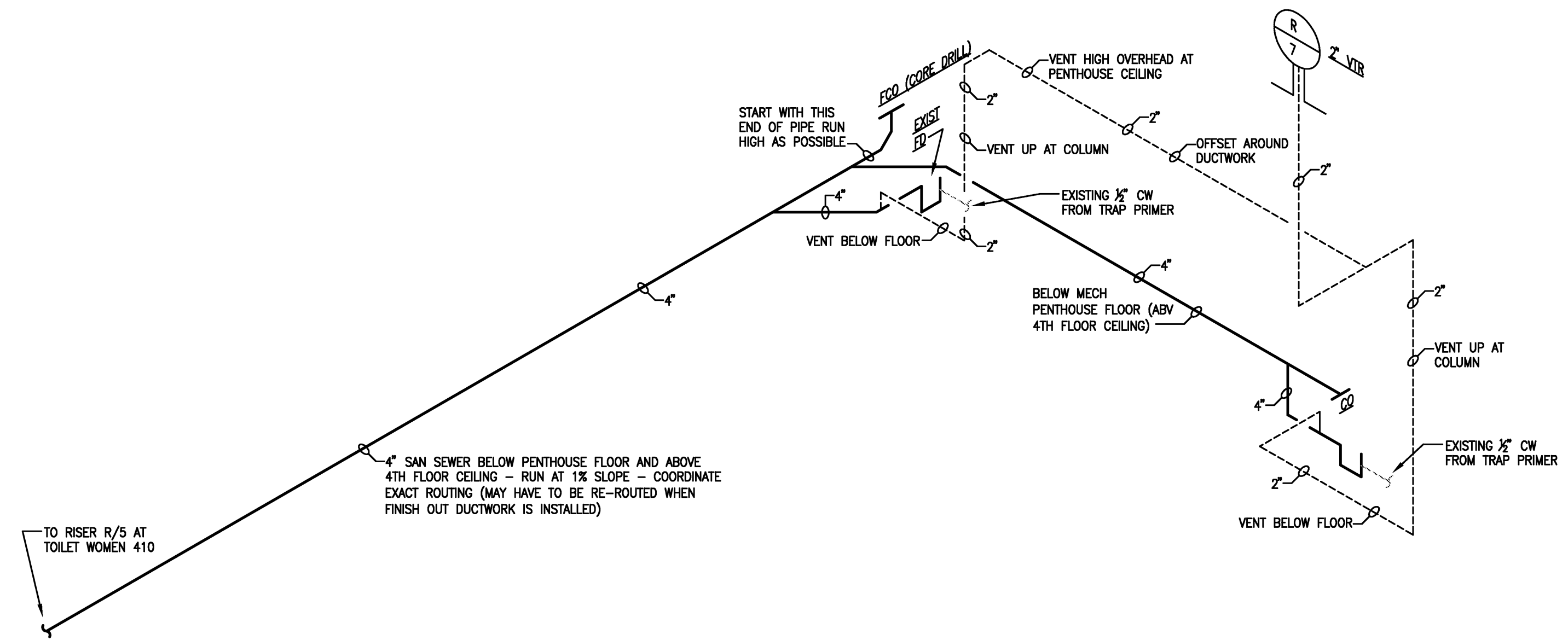
VERIFY SCALE
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WASTE AND VENT RISER AT WOMEN 1053, 2049, 3127 AND 4127 (EAST SIDE)
SCALE: NONE



WASTE AND VENT RISER AT MECH PENTHOUSE (SOUTH EAST CORNER)
SCALE: NONE



WASTE AND VENT RISER AT MECH PENTHOUSE (NORTH EAST CORNER)
SCALE: NONE

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



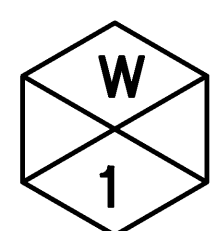
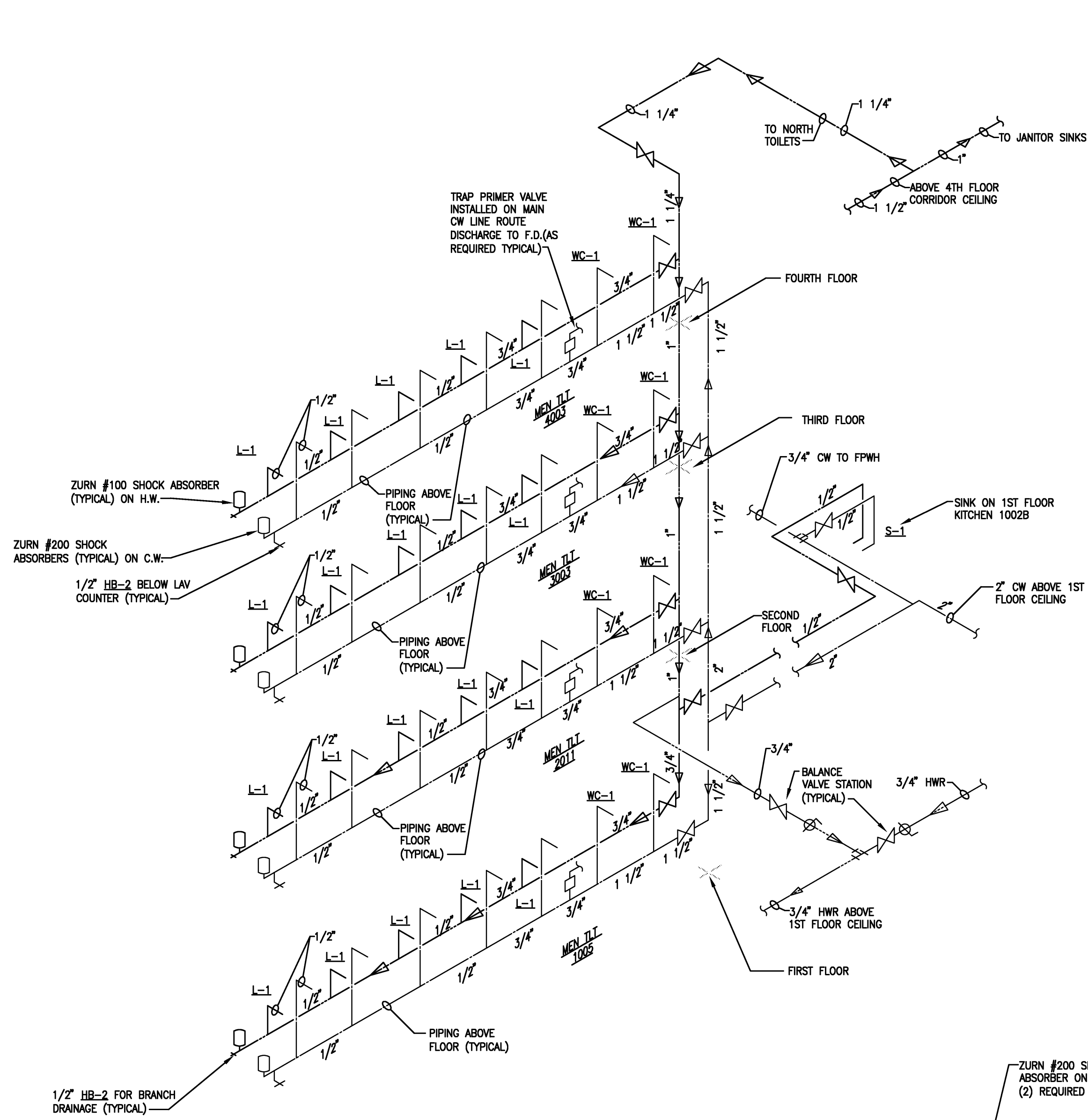
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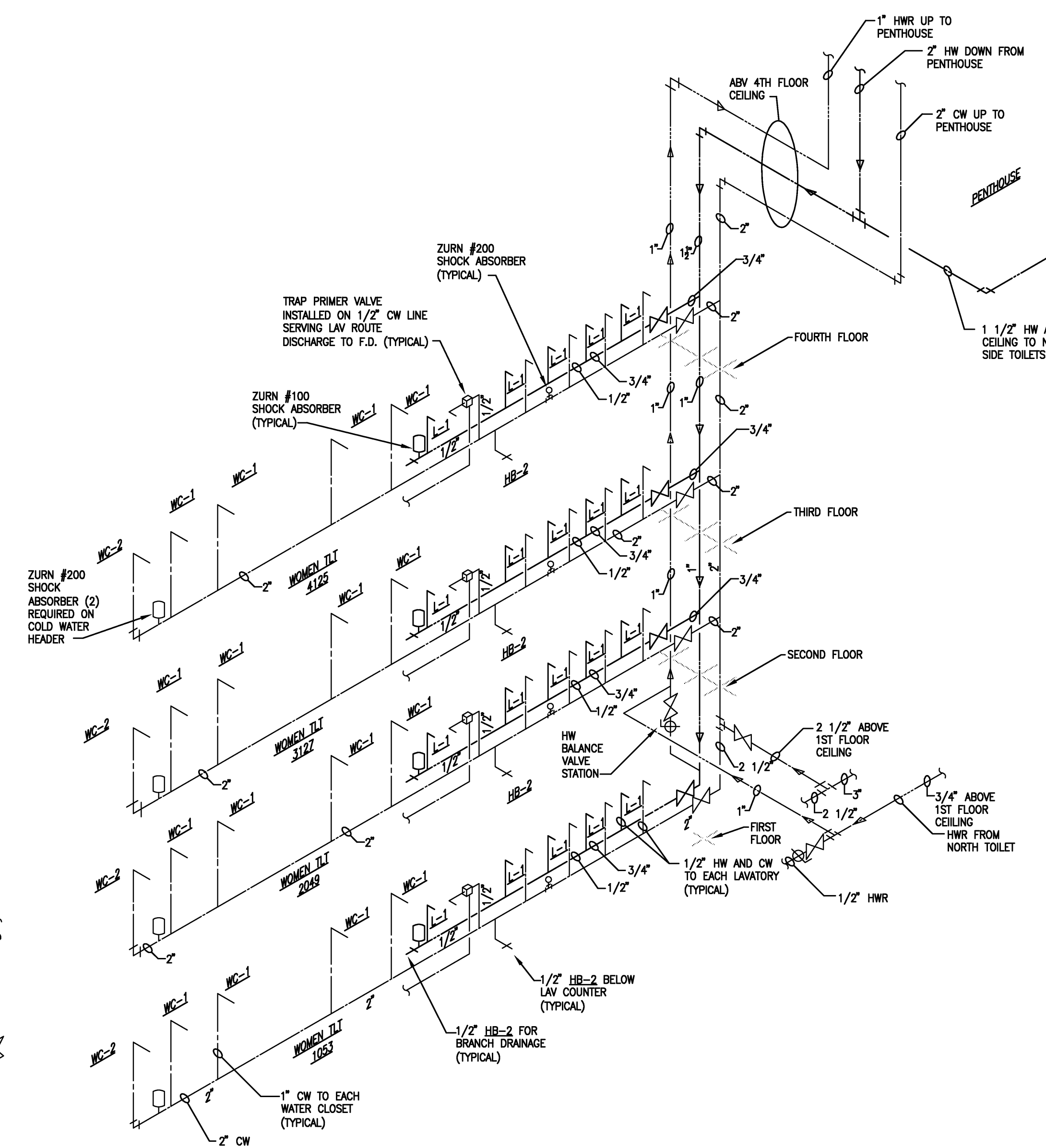


Project: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Plumbing Risers
Sheet Number: **P3.3**



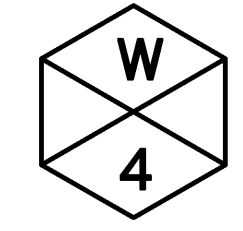
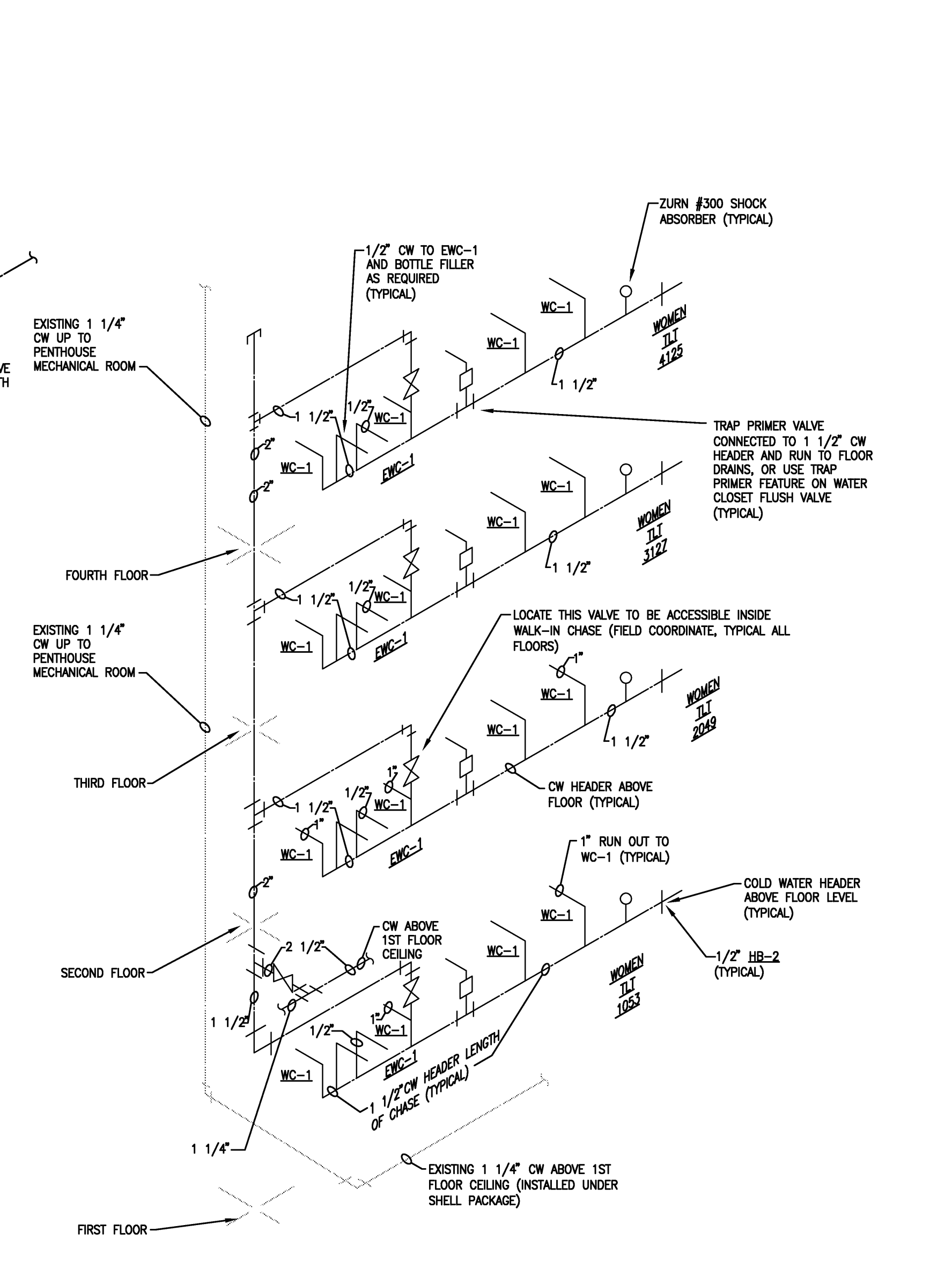
WATER RISER DIAGRAM AT MEN 1005, 2011, 3003, 4003 (WEST SIDE)

SCALE: NONE



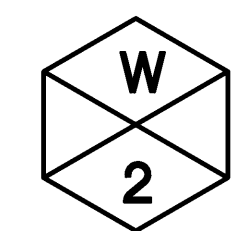
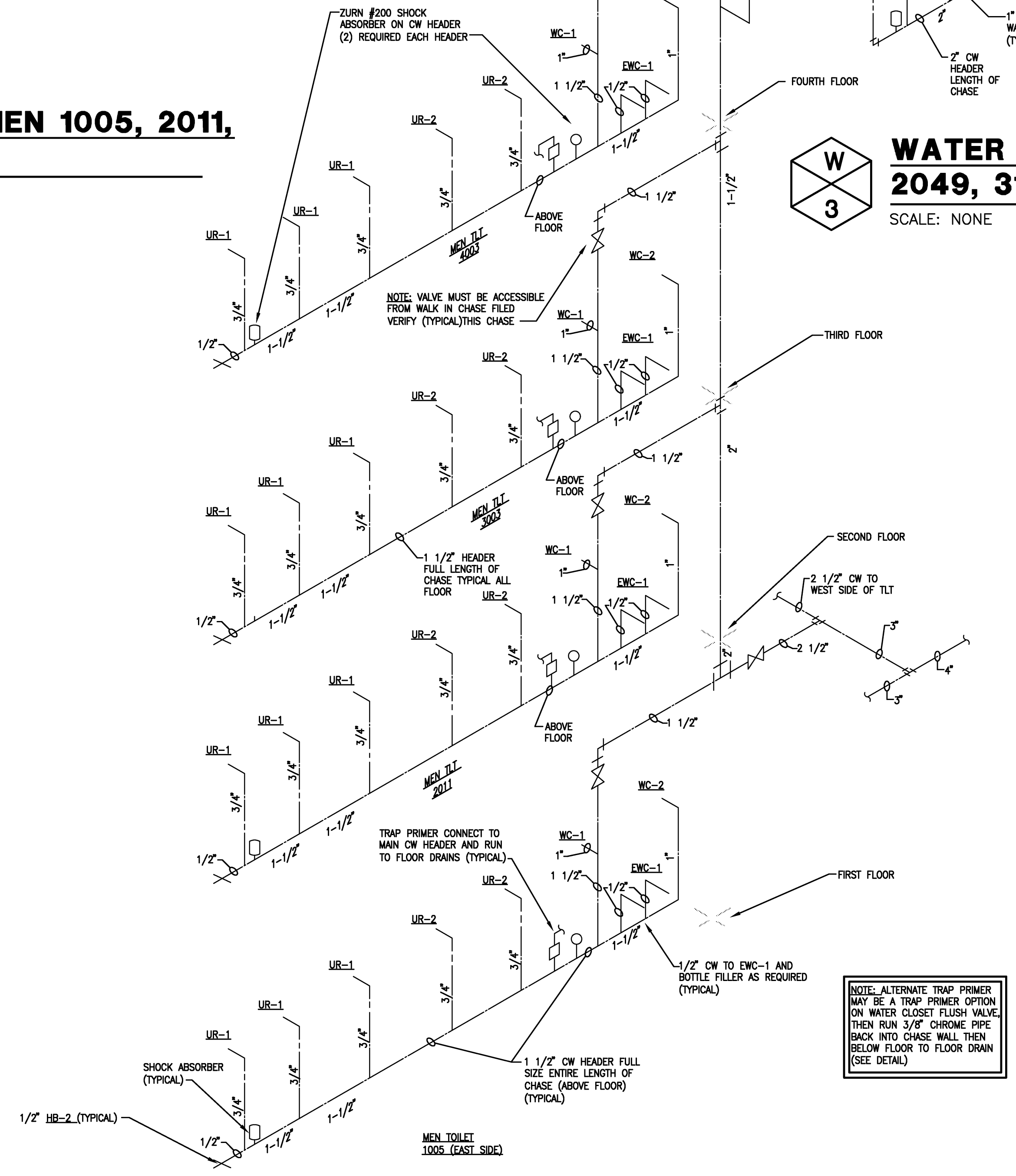
WATER RISER DIAGRAM AT WOMEN 1053, 2049, 3127, 4125 (WEST SIDE)

SCALE: NONE



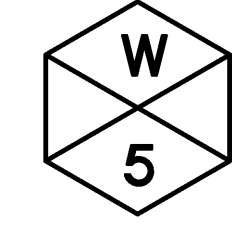
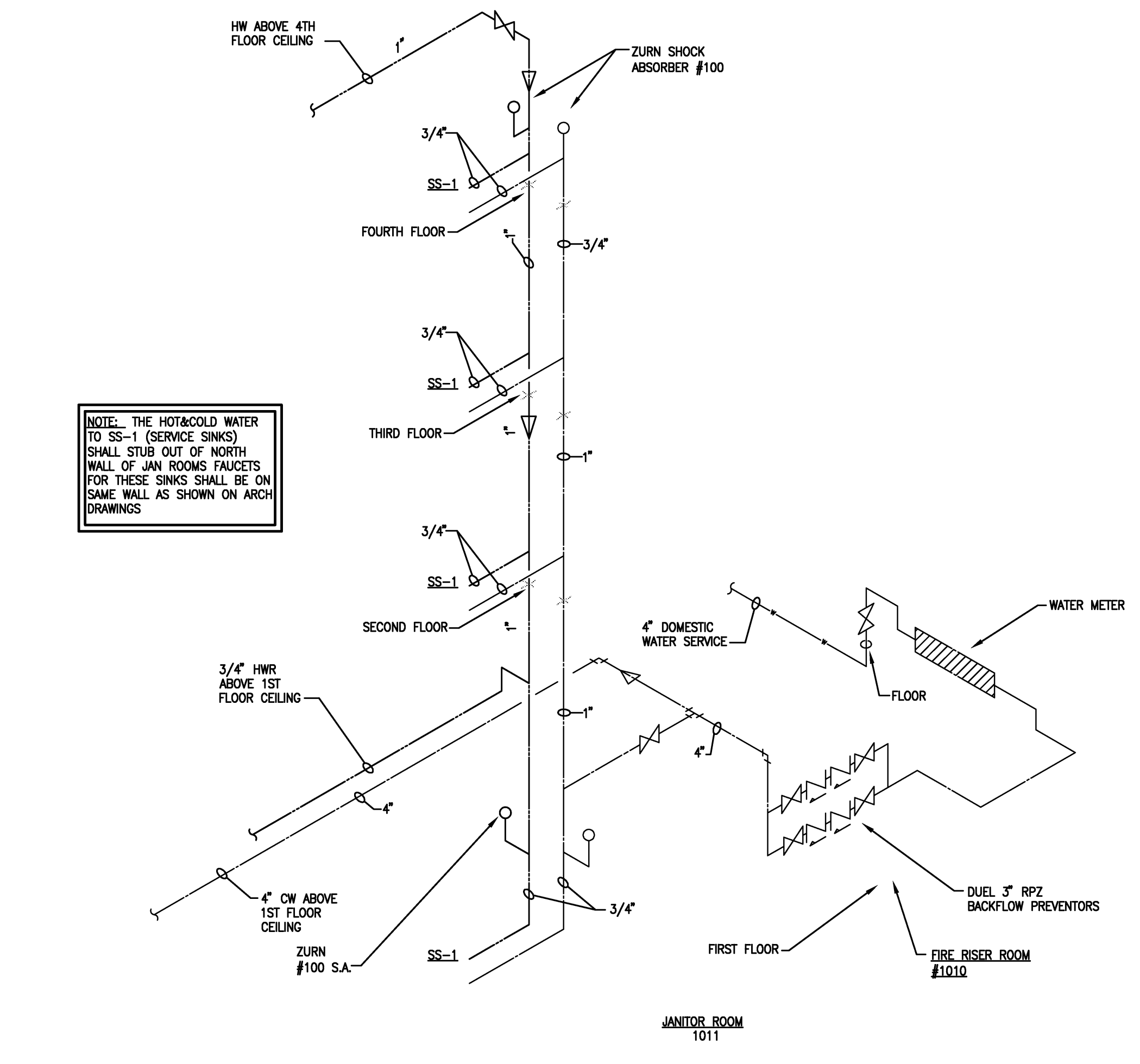
WATER RISE DIAGRAM AT WOMEN 1053, 2049, 3127, 4125 (EAST SIDE)

SCALE: NONE



WATER RISER DIAGRAM AT MEN TOILET 1005, 2011, 3003, 4003 (EAST SIDE)

SCALE: NONE



WATER RISER DIAGRAM AT, (NORTH END) OF BUILDING

SCALE: NONE

VERIFY SCALE
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PROJECT: ASU - Humanities & Social Sciences, Phase 4 Finish-Out
Location: Jonesboro, AR
Date: October 3, 2013
Title: Plumbing Risers

Sheet Number: **P3.4**