

LUSD Technology Dept. Building

LUSD Maintenance, Operations, & Transportation

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SHEET TOTAL: 90

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DSA A#04-110414 PC-1019319

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PROJECT DIRECTORY

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12335 WOODSIDE AVE.
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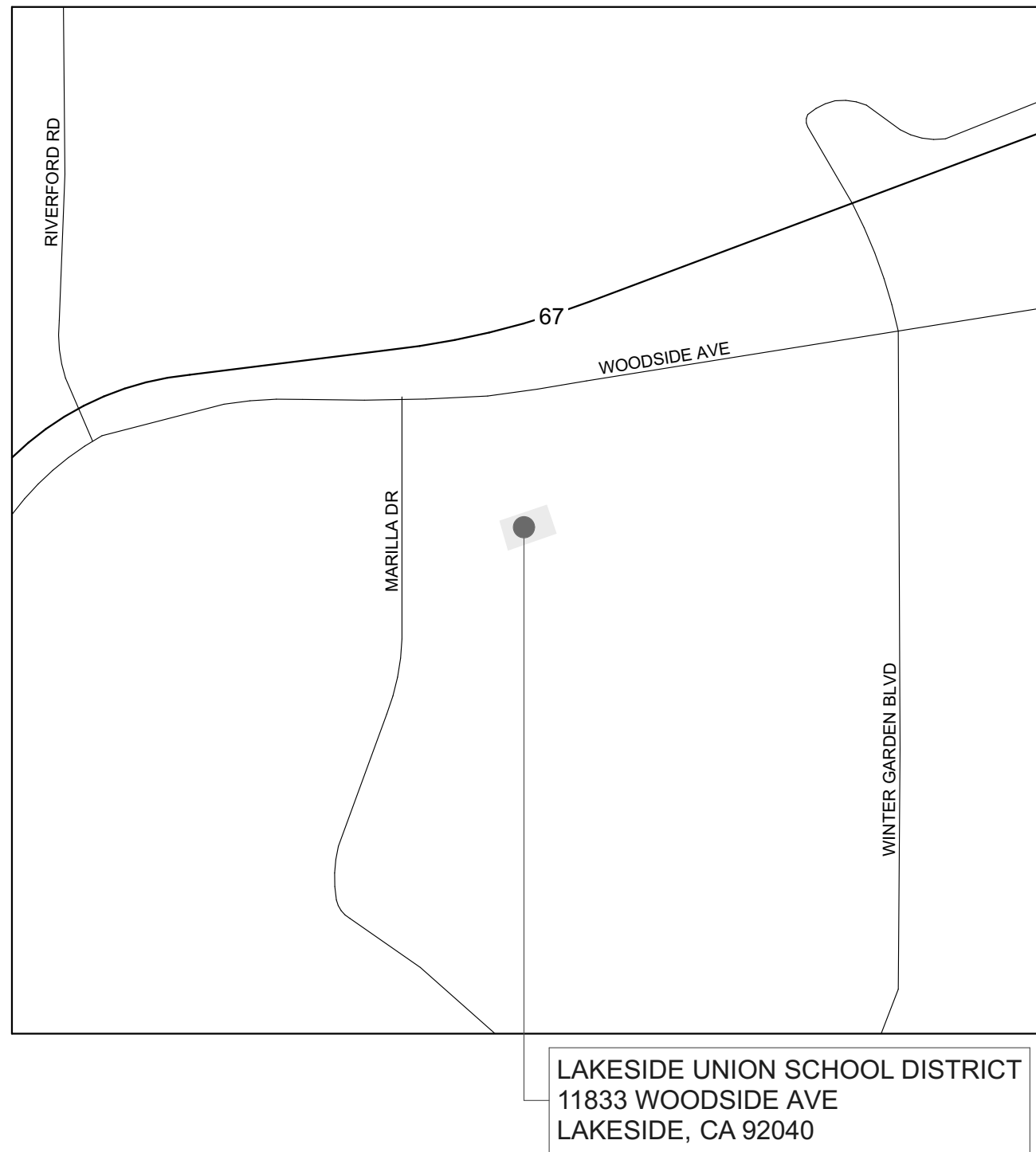
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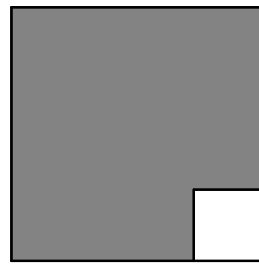
PROJECT SCOPE

THE SCOPE OF THE PROJECT INCLUDES THE COMBINATION OF EXISTING RELOCATABLE BUILDINGS TO CONSTRUCT (1) NEW 84' X 40' TECHNOLOGY BUILDING. SITE WORK INCLUDES NEW RAMPS, PAVING AND PARKING.

VICINITY MAP



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ARCHITECT OF RECORD



ENGINEER OF RECORD

LUSD Technology Dept.

Building

LUSD Maintenance, Operations, & Transportation

9700 Riverview Ave.

Lakeside, CA 92040

LAKESIDE UNION SCHOOL DISTRICT

12335 WOODSIDE AVE. LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

MODEL FILE:
LUSD Technology Dept. Bldg_.pln

PLOT DATE:
12/21/2023

SHEET TITLE

COVER SHEET

T-001

LUSD Technology Dept. Building

LUSD Maintenance, Operations, & Transportation

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES LISTED ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL CODES AND ORDINANCES, CITY OR STATEAS REQUIRED FOR THE CONSTRUCTION OF THE FOLLOWING PROJECT. WHERE CONFLICTS OCCUR BETWEEN FEDERAL, STATE, AND LOCAL LAWS, CODES, ORDINANCES, AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN,
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF BOTH THE UNIFORM BUILDING CODE AND TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. THE EXISTING CONDITIONS SHALL INCLUDE, BUT NOT BE LIMITED TO: IRRIGATION, DRAINAGE, SITE MECHANICAL, PLUMBING, AND ELECTRICAL. THE CONTRACTOR SHALL NOTIFY THE ARCHTIECT OF ANY DISCREPANCIES IN SITE CONDITIONS AND CONTRACT DOCUMENTS. FAILURE TO NOTIFY WHILE PROCEEDING WITH WORK SHALL IMPLY ACCEPTANCE OF THE SITE CONDITIONS BY THE CONTRACTOR FOR THE WORK INTENDED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND SAFE BRACING TO SUPPORT THE COMPONENTS OF THE STRUCTURE UNTIL THE STRUCTURE ITSELF, FLOOR AND ROOF DIAPHRAGMS ARE COMPLETE ENOUGH TO SUPPORT ITSELF. THE SAFETY AND ERECTION OF BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THERE ARE NO DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEER'S DRAWINGS WHICH WOULD CAUSE A CONFLICT IN THE INSTALLATION OF THE SYSTEMS. IF SUCH A CONFLICT DOES OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ALERT THE ARCHITECT TO THE SITUATION PRIOR TO INSTALLATION. ANY WORK INSTALLED IN CONFLICT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMEDY WITH NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, AND MATERIAL INSTALLATION METHODOLOGY.
- TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE, WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR A SIMILAR CONDITION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, POINTS OF CONNECTION, AND IRRIGATION LINES IN THE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF WORK. IF PROPER VERIFICATION IS NOT DONE PRIOR TO WORK COMMENCING, AND DAMAGE IS INCURRED THE CONTRACTOR SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
- ALL DRAWINGS ARE FOR ILLUSTRATION ONLY, THE CONTRACTOR AND SUBCONTRACTORS, SHALL NOT LOCATE ITEMS BY SCALING. IF ITEMS ARE MISLOCATED DUE TO SCALING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CORRECTLY INSTALLING THE ITEMS AT NO EXPENSE TO THE OWNER.
- IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND FINISHED PRODUCT AND / OR ABUTING EXISTING CONDITION IN A FINISHED AND PROFESSIONAL MANNER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE AREA AROUND THE WORK IN A CLEAN AND SAFE CONDITION. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. AREA OF WORK SHALL BE COMPLETELY CLEANED AND READY FOR OCCUPANCY UPON COMPLETION OF WORK.
- ALL WORK SHALL CONFORM TO TITLE 24 CA CODE OF REGULATIONS. A COPY OF TITLE 24, PARTS 1-5, SHALL BE AVAILABLE ON THE JOBSITE AT ALL TIMES.
- THE PROJECT SHALL CONFORM TO CURRENT ADA STANDARDS 2019 CBC CHAPTER 11 B.
- FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAWS.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OF NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TILE 24, CALIFORNIA CODE OF REGULATIONS, A CCD, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STATEARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE ARCHITECT AND OR ENGINEER SHALL MAKE PERIODIC SITE VISITS DURING CONSTRUCTION TO OBSERVE THE PROGRESS OF THE WORK AND VERIFY GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS IS BEING MET. THESE VISIT DO NOT CONSTITUTE A GUARANTEE OF THE CONTRACTOR'S WORK. A CONTRACTOR'S ERROR THAT GOES UNDETECTED DURING A PERIODIC VISIT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PROPERLY PERFORMING THE SCOPE OF THE PROJECT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ADJACENT STRUCTURES, PROPERTY, AND SITE FEATURES DURING CONSTRUCTION. ANY DAMAGE TO SUCH ITEMS SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
- CONTRACTORS AND SUBCONSTRATORS ARE REQUIRED TO SUBMIT THEIR BIDS BASED ON ALL DRAWINGS AND SPECIFICATIONS, NOT SOLELY THE SHEETS OR SECTIONS RELEVANT TO THEIR TRADE.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY IN NATURE, HOWEVER IF A DISCREPANCY OCCURS BETWEEN THE TWO DOCUMENTS, THE MORE STRINGENT REQUIREMENT AND HIGHEST LEVEL OF QUALITY SHALL TAKE PRECEDENCE.
- ALL DETAILS PROVIDED IN THE CONSTRUCTION DOCUMENTS ARE A PART OF THE CONSTRUCTION SCOPE REGARDLESS OF WHETHER THEY ARE SPECIFICALLY REFERENCED.

GENERAL DEMOLITION NOTES

- DEMOLITION PLANS REFERENCE GENERAL ITEMS AND CONDITION VARIATIONS MAY OCCUR WITHIN AREA OF DEMOLITION AND SHALL BE TREATED AS SIMILAR.
- NOT ALL LOCATIONS FOR DEMOLITION MAY BE NOTED. CONTRACTOR SHALL REVIEW THE PROJECT REQUIREMENTS AND BE FAMILIAR WITH THE EXISTING SITE CONDITIONS FOR EVALUATION OF DEMOLITION WORK NECESSARY TO COMPLETE THE NEW WORK.
- KEY NOTES REFERENCE GENERAL ELEMENTS FOR DISPOSAL OR SALVAGE. VARIOUS ASSOCIATED ITEMS MAY OCCUR AND SHALL BE REMOVED ACCORDING TO THE NEEDS AND DESIGN INTENT OF THE NEW CONSTRUCTION.
- THE CONTRACTOR SHALL NOT REMOVE OR ALTER ANY BUILDING ELEMENTS OR SYSTEMS NECESSARY FOR THE BUILDING'S STRUCTURAL INTERGRITY WITHOUT PRIOR AUTHORIZATION FROM THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD.
- CONTRACTOR SHALL NOT ALTER OR REMOVE ANY SHEAR WALLS OR BEARING WALLS UNLESS IDENTIFIED ON THE DRAWINGS WITH APPROPRIATE DETAILS. THE COTNRACTOR SHALL TAKE PRECAUTIONS DURING DEMOLITION AND CONSTRUCTION ACITIVITES TO NOT EFFECT THE EXISTING STRUCTURAL SYSTEM OF THE BUILDING. IF DURING THE COURSE OF THE WORK, ELEMENTS THAT ARE IDENTIFIED TO BE DEMOLISHED, BUT APPEAR STRUCTURAL IN NATURE AND NOT IDENTIFIED AS SUCH, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE DEMOLITION OF SUCH ELEMENTS WITHOUT THE DIRECTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD.
- AFTER THE DEMOLITION AND REMOVAL OF ELEMENTS, REPAIR AND RESTORE EXISTING FINISHES TO BE LEFT EXPOSED TO THEIR ORIGINAL CHARACTER. WHERE EXISTING FINISHES ARE TO BE HIDDEN WITH NEW MATERIALS, THOSE FINISHES SHALL BE RESTORED TO PROVIDE ADEQUATE SUITABILITY, STRENGTH, AND SUBSTRATE FOR NEW CONSTRUCTION AND FINISHES.
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION:

5-2 PROTECTION

5-3 REMOVAL

5-4 RELOCATION

7-8 PROJECT SITE MAINTENANCE

7-9 PROTECTION AND RESTORATION OF EXIST. IMPROVEMENTS

7-10 PUBLIC CONVENIENCE AND SAFETY
- SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 C.B.C. AND CHAPTER 33 C.F.C.
- THE CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS IN A LEGAL AND ACCEPTABLE MANNER.
- CONTRACTOR SHALL MAKE AVAILABLE TO OWNER ANY MATERIALS OR EQUIPMENT LISTED FOR DEMOLITION, DISPOSAL, REMOVAL, ETC. UPON OWNERS REQUEST, OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGABLE ITEMS.
- CONTRACTOR SHALL KEEP OPERATING EQUIPMENT OR MATERIALS INDICATED FOR REUSE, RELOCATION, OR OWNER RETENTION IN A SAFE MANNER TO PROTECT THE MATERIAL OR EQUIPMENT FROM DAMAGE.
- THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL DEMOLITION WORK NECESSARY TO ALLOW EXECUTION OF ALL REQUIREMENTS OF THE NEW CONSTRUCTION UNDER THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS.
- THE RECORD DRAWINGS FOR THE FACILITIES TO BE MODERNIZED MAY BE AVAILABLE FROM THE DISTRICT FOR REFERENCE. CONTRACTOR SHALL REQUEST DRAWINGS OR OTHER OWNER SUPPLIED DOCUMENTS PRIOR TO BEGINNING DEMOLITION OR CONSTRUCTION ACTIVITES. THE CONTRACTOR SHALL REVIEW THE RECORD DOCUMENTS TO DETERMINE ANY CONDITIONS WHERE CONFLICTS, HARDSHIPS, OR SIMILAR ISSUES MAY ARISE. THE CONTRACTOR SHALL NOTIFY THE ARCHTIECT OF ANY CONDITIONS WHERE CONFLICTS MAY ARISE PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- AREA OF FLOOR SLAB OR PAVINGDEMOLITION IS SHOWN AS AN APPROXIMATION ONLY TO DEFINE GENERAL SCOPE OF WORK. EXISTING CONDITIONS MAY REQUIRE A LARGER / DIFFERENTLY CONFIGURED AREA OF DEMOLITION. REMOVAL SHALL BE IN ACCORDANCE TO THE NEEDS AND DESIGN INTENT OF THE NEW CONSTRUCTION. COORDINATE DEMOLITION REQUIREMENTS WITH CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DESIGN AND DRAWINGS.
- ALL FLOOR SLAB AND/OR PAVING SAWCUTS SHALL BE DONE IN A MANNER THAT CREATES A SHARP, STRAIGHT, AND SQUARE EDGE. SAW CUT EDGES EXPOSED FOR LONG DURATIONS DURING CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR IN ORDER TO LIMIT CHIPPING OF CONCRETE EDGE. IF CHIPPING OR OTHER DAMAGE OCCURS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ADDITIONAL FLOOR SLAB AND/OR PAVING TO NEXT AVAILABLE JOINT OR AS DETERMINED BY ARCHITECT AT THE CONTRACTOR'S OWN COST.
- WHERE EQUIPMENT AND/OR FIXTURES ARE INDICATED TO BE REMOVED ALL RELATED EXPOSED PIPING, CONDUITS, AND ASSOCIATED ITEMS SHALL ALSO BE REMOVED AND/OR PROPERLY TERMINATED TO PROVIDE COMPLETE DEMOLITION.
- WHERE EXISTING CONSTRUCTION ELEMENTS (FRAMING, FINISHES, PIPES, CONDUITS, DUCTWORK, EQUIPMENT, ETC.) INTERFERE WITH THE INTENDED NEW CONSTRUCTION OR WOULD BE EXPOSED IN OTHERWISE 'FINISHED' AREAS, THESE ITEMS SHALL ALSO BE REMOVED AND/OR RELOCATED.
- AT DEMOLITION OF DOORS, WINDOWS, FLASHINGS, SOFFITS, ETC. WHERE PLASTER IS DISTURBED AT FINISHES TO REMAIN, REMOVE PLASTER BACK 6" MINIMUM TO EXPOSE LATH TO PERFORM PROPER PLASTER PATCH.
- REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL DEMOLITION WORK SPECIFIC TO THOSE BUILDING SYSTEMS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ANY HAZARDOUS ABATEMENT DOCUMENTS FOR THE SCOPE OF WORK TO FULLY UNDERSTAND THE EXTENT OF REMOVAL AND DISPOSAL REQUIREMENTS FOR THOSE MATERIALS.
- ALL ABATEMENT WORK SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO DEMOLITION WORK.

GENERAL ACCESIBILITY NOTES

- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 36" TO 42" ABOVE THE FLOOR (PANIC HARDWARE SHALL BE BETWEEN 36" TO 44" ABOVE FIN. FLR.). LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND IN A PATH OF TRAVEL, SHALL BE OPENABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, BY EXIT DEVICE, OR PUSH-PULL ACTIVATING BARS. LOCKED EXIT DOORS SHALL OPERATE BY ABOVE IN DIRECTON OF EGRESS.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5.0 POUNDS FOR EXTERIOR AND INTERIOR DOORS. SUCH PUSH OR PULL EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS.
- DOOR CLOSERS AND GATES CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
- THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY CHANGE IN LEVEL BETWEEN 1/4 AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- ACCESSIBLE FIXTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CALIFORNIA PLUMBING CODE, 2019 EDITION.
- EXPOSED LAVATORY P-TRAP ASSEMBLIES AND WATER SUPPLY LINES SHALL BE INSTALLED WITH REMANUFACTURED VINYL COVERED P-TRAP, VALVE, AND SUPPLY INSULATED COVER.
- THE FORCE REQUIRED TO OPERATE LAVATORY OR SINK FAUCETS SHALL BE NO GREATER THAN 5 POUNDS, SELF-CLOSING FAUCETS SHALL HAVE A MINIMUM 10 SECOND CYCLE TIME.
- ALL ACCESSIBLE GATES WITHIN THE PATH OF TRAVEL SHALL HAVE NON-GRIP HARDWARE MOUNTED BETWEEN 34" TO 44" ABOVE FINISH PAVING. THERE SHALL BE 24" MINIMUM CLEAR SPACE PROVIDED AT THE STRIKE SIDE OF THE GATE FOR ACCESSIBLE MANEUVERING CLEARANCES.
- ALL DIMENSIONS FOR ACCESSIBLE COMPONENTS, FEATURES, OR CLEAR FLOOR SPACE ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- WHERE FLOOR DRAINS ARE PROVIDED, FINISHED SURFACE SHALL SLOPE TO DRAIN NO MORE THAN 2% IN ANY DIRECTION. FLOOR DRAINS AND FLOOR SINKS SHALL HAVE 1/2" MAXIMUM GRATE OPENINGS IN ALL DIRECTION.
- ACCESSIBLE PATH OF TRAVEL (POT) SHALL BE A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. POT SHALL BE AT LEAST 48" IN WIDTH WITH A STABLE, FIRM, AND SLIP RESISTANT SURFACE. CROSS SLOPE SHALL NOT EXCEED 2% MAX AND THE SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM ABOVE FINISHED SURFACE AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE WALL AND 27" ABOVE FINISHED SURFACE, BUT LESS THAN 80" ABOVE FINISHED SURFACE. REFERENCE CBC 11B-202.4.
- OPENINGS IN GRATINGS OR STRAINERS LOCATED IN THE PEDESTRIAN CIRCULATION PATHS OR PATH OF TRAVEL SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH CBC 11B-302.
- GATES IN THE PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS.

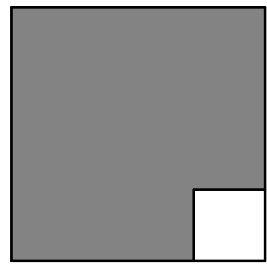
LIST OF APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (C.A.C.), PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (C.B.C.) PART 2, TITLE 24, C.C.R.
- 2022 CALIFORNIA ELECTRIC CODE (C.E.C.), PART 3, TITLE 24, C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (C.M.C.) PART 4, TITLE 24, C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24, C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2022 CALIFORNIA EXISTING GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

ALPHASTUDIO DESIGN GROUP



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ARCHITECT OF RECORD



ENGINEER OF RECORD

LUSD Technology Dept.

Building

LUSD Maintenance, Operations, & Transportation

9700 RiverView Ave.
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LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE, LAKESIDE CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION
PROJECT NO: 23-003		
MODEL FILE: LUSD Technology Dept. Bldg_.pln		
PLOT DATE: 12/21/2023		
SHEET TITLE		

APPLICABLE CODES AND
GENERAL NOTES

T-002

LUSD Technology Dept. Building

LUSD Maintenance, Operations, & Transportation

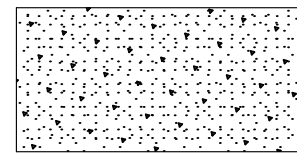
STANDARD ABBREVIATIONS

&	AND	GA.	GAUGE	STD.	STANDARD
<	ANGLE	GALV.	GALVANIZED	STL.	STEEL
@	AT	GB.	GRAB BAR	ST.	STEEL
A	AMP	GC.	GENERAL CONTRACTOR	STO.	STORAGE
AB.	ANCHOR BOLT	GL.	GLASS	STRUC.	STRUCTURAL
ABV.	ABOVE	GI.	GALVANIZED IRON	STR.	STRUCTURAL
AC.	ASPAHLT	GND.	GROUND	SUSP.	SUSPENDED
A/C.	AIR CONDITIONING	SPDW.	GYPSUM DRYWALL	SYM.	SYMMETRICAL
ACOUS.	ACOUSTICAL	GRD.	GRADE	T	TREAD
AD.	AREA DRAIN	GV.	GATE VALVE	TB.	TOWEL BAR
ADJ.	ADJUSTABLE	GYP.	GYPSUM	T&B	TOP AND BOTTOM
AGGR.	AGGREGATE	HB.	HOSE BIB	TOC	TOP OF CURB
AFF.	ABOVE FINISH FLOOR	HC.	HOLLOW CORE	TEL.	TELEPHONE
AL.	ALUMINUM	HD.	HEAD	TEM.	TEMPERED
AP.	ACCESS PANEL	HDR.	HEADER	TER.	TERAZZO
APPROX.	APPROXIMATE	HDW.	HARDWARE	TF.	TOP OF FOOTING
ARCH.	ARCHITECTURAL	HM.	HOLLOW METAL	T&G	TONGUE AND GROOVE
ASC.	ABOVE SUSPENDED CEILING	HDWD.	HARDWARE	THK.	THICK
AS.	AUTOMATIC SPRINKLER	HNDRL.	HANDRAIL	TP.	TOP OF PARAPET
AUTO.	AUTOMATIC	HORIZ.	HORIZONTAL	TPD.	TOILET PAPER DISPENSER
BD	BOARD	HVAC.	HEATING, VENTILATING, AIR CONDITIONING	TS	TOP OF STRUCTURE
BFG.	BELOW FINISH GRADE	ID.	INSIDE DIAMETER	TTB.	TELEPHONE TERMINAL BACKBOARD
BITUM.	BITUMINOUS	IE.	INVERT ELEVATION	TV.	TELEVISION
BLDG.	BUILDING	IF.	INSIDE FACE	TOW.	TOP OF WALL
BLK.	BLOCK	IN.	INCH	TYP.	TYPICAL
BM.	BEAM	INC.	INCLUDE	UG.	UNDERGROUND
BRG.	BEARING	INFO.	INFORMATION	UNF.	UNFINISHED
BRK.	BRICK	INSUL.	INSULATION	UNO	UNLESS NOTED OTHERWISE
BOT.	BOTTOM	INT.	INTERIOR	UON	UNLESS OTHERWISE NOTED
BTU.	BRITISH THERMAL UNIT	INV.	INVERT	UR	URINAL
C.	CONDUIT	JAN.	JANITOR	UTIL.	UTILITY
CAB.	CABINET	JST.	JOIST	VAR.	VARIES
CB.	CATCH BASIN	JT.	JOINT	VB.	VAPOR BARRIER
CD.	CEILING DIFFUSER	KIT.	KITCHEN	VCT.	VINYL COMPOSITION TILE
CEM.	CEMENT	KP.	KICK PLATE	VERT.	VERTICAL
CER.	CERAMIC	KVA	KILOVOLT AMPERES	VEST.	VESTIBULE
CF.	CUBIC FEET	KW	KILOWATT	VIF.	VERIFY IN FIELD
CFM.	CUBIC FEET PER MINUTE	MAS.	MASONRY	VTR.	VENT THROUGH ROOF
CG.	CORNER GUARD	MAT'L.	MATERIAL	W	WEST
CI.	CAST IRON	MAX.	MAXIMUM	W/	WITH
CIP.	CAST IN PLACE	MC.	MEDICINE CABINET	WC.	WATER CLOSET
CKT. BKR.	CIRCUIT BREAKER	MECH.	MECHANICAL	WCO.	WALL CLEAN OUT
CL.	CENTERLINE	MFR.	MANUFACTURER	WD.	WOOD
CLG.	CEILING	MH.	MANHOLE	WDW.	WINDOW
CLR.	CLEAR	MIN.	MINIMUM	WH.	WATER HEATER
CMU.	CONCRETE MASONRY UNIT	MIR.	MIRROR	W/O	WITHOUT
CNTR.	COUNTER	MISC.	MISCELLANEOUS	WP.	WATERPROOF
CO.	CLEANOUT	MO.	MASONRY OPENING	WSCT.	WAINSCOT
COTG.	CLEANOUT TO GRADE	MTD.	MOUNTED	WT.	WEIGHT
COL.	COLUMN	MTL.	METAL	WWF.	WELDED WIRE FABRIC
CONC.	CONCRETE	MUL.	MULLION	WWW.	WELDED WIRE MESH
CONN.	CONNECTION	N.	NORTH		
OPT.	CARPET	NIC.	NOT IN CONTRACT		
CTR.	CENTER	NO.	NUMBER		
CTSK.	COUNTERSINK	NOM.	NOMINAL		
CW.	COLD WATER	NTS.	NOT TO SCALE		
D.	DRAIN	OA.	OUTSIDE AIR		
DBL.	DOUBLE	O/A	OVERALL		
DEPT.	DEPARTMENT	OBS.	OBSOLETE		
DET.	DETAIL	OC.	ON CENTER		
DF.	DINKING FOUNTAIN	OD.	OUTSIDE DIAMETER		
DIA.	DIAMETER	OFF.	OFFICE		
DIM.	DIMENSION	OH.	OPPOSITE HAND		
DISP.	DISPENSER	OPNG.	OPENING		
DMT.	DEMOUNTABLE	OP.	OPPOSET		
DN.	DOWN	OVHD.	OVERHEAD		
DO.	DOOR OPENING	PAV.	PAVING		
DR.	DRAIN	PC.	PRECAST CONCRETE		
DS.	DOWNSPOUT	PCC.	PORTLAND CEMENT CONCRETE		
DWG.	DRAWING	PHP.	PARTIAL HEIGHT PARTITION		
DWR.	DRAWER	PLT.	PLATE		
EXIST.	EXISTING	PL	PROPERTY LINE		
E.	EAST	PLAM	PLASTIC LAMINATE		
EA.	EACH	PLAS.	PLASTER		
EF.	EXHAUST FAN	PLYWD.	PLYWOOD		
EJ.	EXPANSION JOINT	PLUMB.	PLUMBING		
ELEC.	ELECTRICAL	POC.	POINT OF CONNECTION		
ELEV.	ELEVATOR	PP.	POWER POLE		
EMER.	EMERGENCY	PRCST	PRE-CAST		
ENCL.	ENCLOSURE	PSI.	POUNDS PER SQUARE INCH		
EP.	ELECTRICAL PANELBOARD	PT.	POINT		
EQ.	EQUAL	PTD.	PAPER TOWEL DISPENSER		
EQUIP.	EQUIPMENT	PTN.	PARTITION		
EW.	EACH WAY	PVMT.	PAVEMENT		
EW.	ELECTRIC WATER COOLER	QT.	QUARRY TILE		
EH.	EXHAUST	R.	RISER		
EXIST.	EXISTING	RAD.	RADIUS		
EXPO.	EXPOSED	RD.	ROOF DRAIN		
EXP.	EXPANSION	REF.	REFERENCE		
EXT.	EXTERIOR	REFR.	REFRIGERATOR		
FAS.	FASTNER	REINF.	REINFORCED		
FA.	FIRE ALARM	REQ'D.	REQUIRED		
FB.	FACE BRICK	REV.	REVISION		
FCO.	FLOOR CLEANOUT	RESIL.	RESILIENT		
FD.	FLOOR DRAIN	RM.	ROOM		
FDN.	FOUNDATION	RO.	ROUGH OPENING		
FE.	FIRE EXTINGUISHER	RDWD.	REDWOOD		
FEC.	FIRE EXTINGUISHER CABINET	S.	SOUTH		
FF.	FINISH FLOOR	SC.	SOLID CORE		
FG.	FINISH GRADE	SCHED.	SCHEDULE		
FH.	FIRE HYDRANT	SD.	SOAP DISPENSER		
FHC.	FIRE HOUSE CABINET	SECT.	SECTION		
FIN.	FINISH	SF.	SQUARE FOOT		
FL.	FLOOR LINE	SH.	SHELF		
FLR.	FLOOR	SHR.	SHOWER		
FLOUR.	FLOURESCENT	SHT.	SHEET		
FOC.	FACE OF CONCRETE	SIM.	SIMILAR		
FOF.	FACE OF FINISH	SMH.	SEWER MANHOLE		
FOM.	FACE OF MASONRY	SND.	SANITARY NAPKIN DISPENSER		
FOS.	FACE OF STUD	SOV.	SHUT OFF VALVE		
FPRF.	FIREPROOFING	SPEC.	SPECIFICATIONS		
FS.	FINISH SURFACE	SPKR.	SPRINKLER		
FT.	FOOT	SQ.	SQUARE		
FTG.	FOOTING	SS.	STAINLESS STEEL		
FUT.	FUTURE	STA.	STATION		

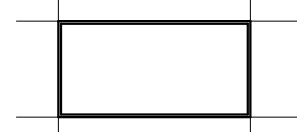
ACOUSTIC TILE CEILING (ATC) IN SUSPENDED T-BAR CEILING GRID (2'X4')



GYPSUM BOARD CEILING (INTERIOR) STUCCO SOFFIT (EXTERIOR)



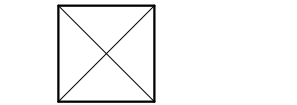
SUSPENDED LIGHT FIXTURE IN ATC



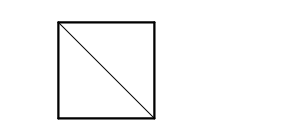
LIGHT FIXTURE



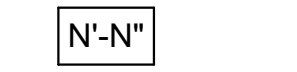
AIR DIFFUSER (SUPPLY)



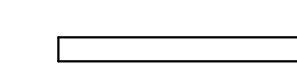
AIR DIFFUSER (RETURN)



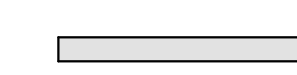
FINISHED CEILING HEIGHT, WHERE HEIGHTS ARE NOT INDICATED REFER TO FINISH SCHEDULE.



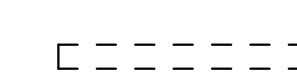
EXISTING WALL TO REMAIN



NEW WALL



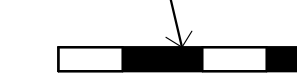
EXISTING WALL TO BE DEMOLISHED



HATCH MAY VARY BASED ON RATING



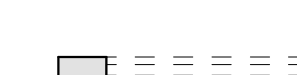
RATED WALL (NEW OR EXISTING)



WINDOW (NEW OR EXISTING)



WINDOW TO BE DEMOLISHED



DOOR (NEW OR EXISTING)



DOOR TO BE DEMOLISHED



DIRECTION OF FLOW



ROOF DRAIN/OVERFLOW DRAIN



CRICKET

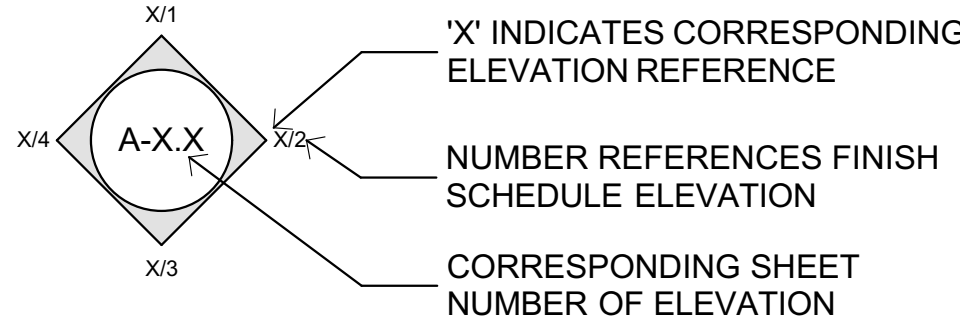


APPROXIMATE LOCATION OF PROTECTIVE ROOF WALKTOP

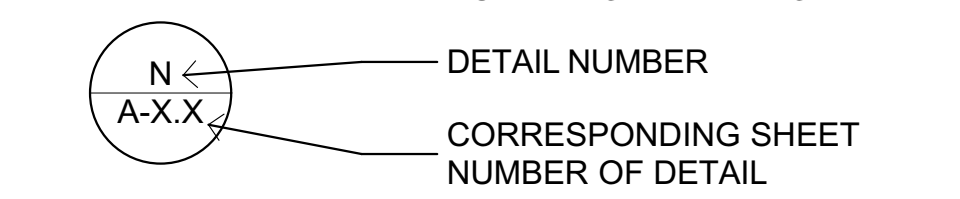


TYPICAL SYMBOLS

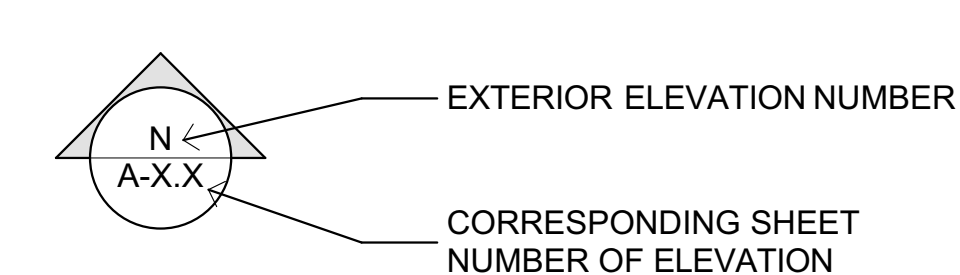
ROOM ELEVATION



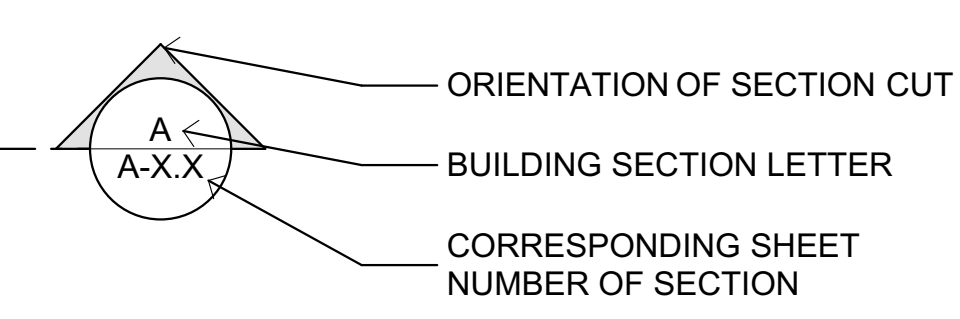
DETAIL REFERENCE



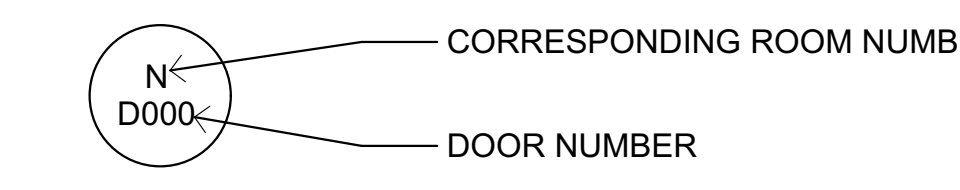
EXTERIOR ELEVATION MARKER



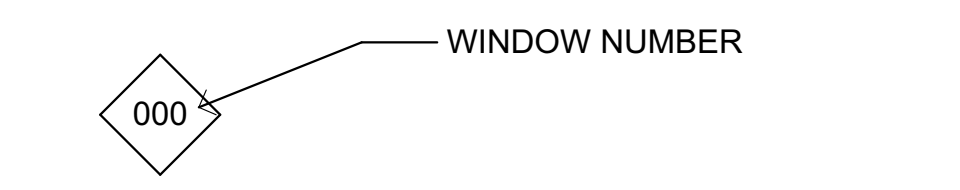
SECTION MARKER



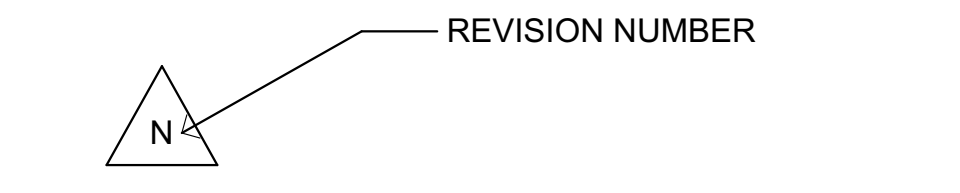
DOOR IDENTIFICATION



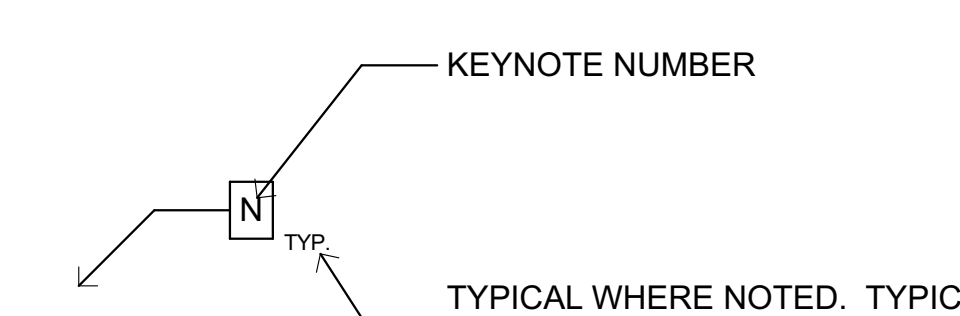
WINDOW IDENTIFICATION



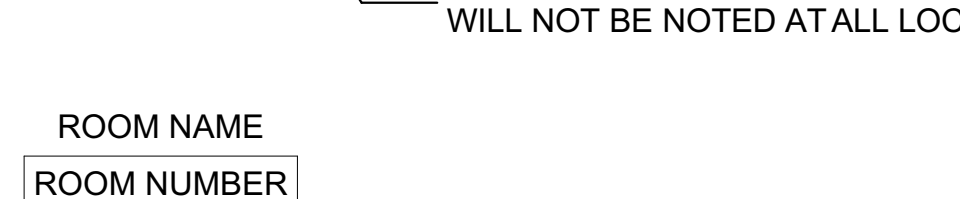
REVISION



KEYNOTE



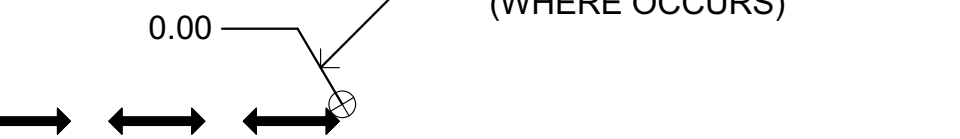
ROOM NAME/NUMBER MARKER



EXISTING ACCESSIBLE PATH OF TRAVEL (POT)



NEW ACCESSIBLE PATH OF TRAVEL (POT)



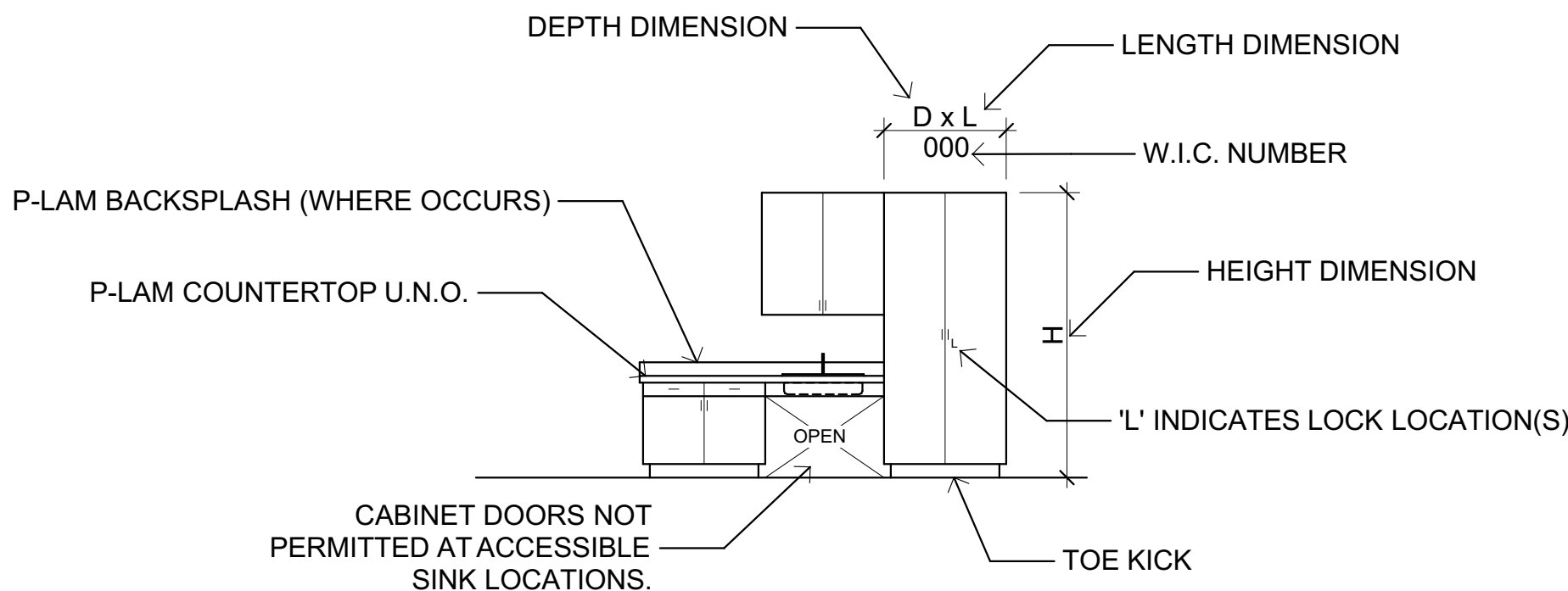
60" DIAMETER ACCESSIBLE CLEAR SPACE



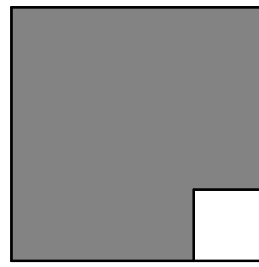
30"X48" ACCESSIBLE CLEAR SPACE



TYPICAL CABINET DESIGNATION (BASE, FULL, OVERHEAD)

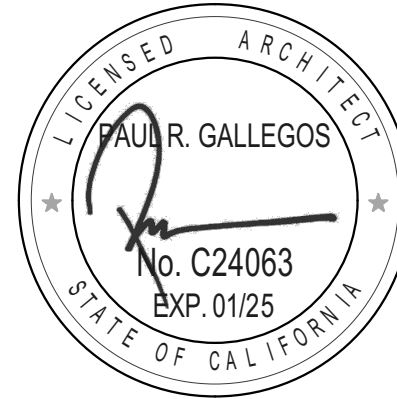


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CARLSBAD, 92009
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ARCHITECT OF RECORD



ENGINEER OF RECORD

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Building**
LUSD Maintenance, Operations, & Transportation
9700 RiverView Ave.
Lakeside, CA 92040
LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE. LAKESIDE CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION

PROJECT NO: 23-003
MODEL FILE:
LUSD Technology Dept. Bldg_.pln

PLOT DATE:
12/21/2023

SHEET TITLE

ABBREVIATIONS AND
TYPICAL SYMBOLS

T-003

SAVE DATE: 12/15/2023 ~ PLOT DATE: 12/15/2023 ~ FILE NAME: J:\ACTIVE_JOBS\4008_LAKESIDE TECH DEPT\DWG DRAWING\CONSTRUCTION DOCUMENTS\4008-LUSD-C0-01-Title.dwg

LAKESIDE UNION SCHOOL DISTRICT

LUSD TECHNOLOGY DEPT. BUILDING

LAKESIDE, CA

CIVIL ENGINEER'S NOTES TO CONTRACTOR

- ALL LANDSCAPE AREAS SHALL BE GRADED TO SLOPE AWAY FROM STRUCTURES AND PROPERTY LINES TOWARD LANDSCAPE DRAINAGE SWALES AND OR SITE DRAIN INLETS AT 2% MINIMUM GRADIENT (1% WHERE FLOW IS CONCENTRATED). SMOOTH FINISH GRADES TO ELIMINATE PONDING OR STANDING WATER.
- ALL LANDSCAPE DRAINS SHALL BE 4" MINIMUM CONSTRUCTED WITH RIGID BELOW GRADE PIPING WITH A 1% MINIMUM GRADIENT UNLESS OTHERWISE NOTED.
- LANDSCAPE DRAINS, CATCH BASINS, INLETS, ETC. SHOWN HEREON ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COMPLETE DRAINAGE SYSTEMS AND ADJUST THE LAYOUT AS REQUIRED TO MATCH SITE CONDITIONS AND OR MINOR DISCREPANCIES WITH THESE PLANS.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN PROPER DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ENGINEER UPON THE DISCOVERY OF AREAS WHICH DO NOT DRAIN PROPERLY OR ANY OTHER DISCREPANCY OR AREA WHICH HAS NOT BEEN ADEQUATELY ADDRESSED AS A RESULT OF A FIELD CONDITION OR ANOMALY IN THE TOPOGRAPHY.
- HARDSCAPE GRADES SHALL BE 0.02' BELOW DRIP SCREED AT HIGHEST POINT NEAR STRUCTURE AND SHALL SLOPE AT A 1% MINIMUM GRADE TO DRAINS OR LANDSCAPE AREAS. HARDSCAPE SHALL SLOPE AND DRAIN AWAY FROM THE STRUCTURE UNLESS OTHERWISE NOTED.
- THE HIGHEST ADJACENT GRADE AGAINST STRUCTURE FOOTINGS SHALL BE PER THE LATEST GREEN BOOK STANDARD.
- DEEPEENED FOOTINGS OR YARD DRAINS SHOULD BE CONSIDERED IF THE SIDE YARD CROSS SLOPES EXCEED 10%. CONTRACTOR TO VERIFY WITH OWNER OR DEVELOPER.
- EARTHWORK QUANTITIES SHOWN HEREON ARE RAIN QUANTITIES CALCULATED FOR PERMIT AND OR BONDING PURPOSES ONLY. UNLESS NOTED, THEY DO NOT INCLUDE POTENTIAL SHRINKAGE OR BULKING FACTORS, REMEDIAL GRADING, FOOTING SPOILS, UTILITY TRENCH SPOILS, ETC. THE CONTRACTOR SHALL VERIFY QUANTITIES TO THEIR OWN SATISFACTION.
- THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE MAY BE VERIFIED BY POTHOLES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON.
- CONTRACTOR SHALL NOTIFY DIGALERT @ 800-227-2600 OR UNDERGROUND SERVICE ALERT (USA) @ 800-422-4133 AT LEAST TWO DAYS BEFORE START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR POTHOLES PRIOR TO START OF CONSTRUCTION TO VERIFY ALL ELEVATIONS OF EXISTING UNDERGROUND UTILITIES.
- MSE WALLS SHALL BE CONSTRUCTED WITH FULL SPECIAL INSPECTION BY OTHERS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- MSE KEYSTONE RETAINING WALLS SHALL BE CERTIFIED BY THE SOILS ENGINEER OF WORK AS BEING CONSTRUCTED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL OF THE ROUTE AND SITE LOCATION FOR EXPORT AND OR IMPORT MATERIALS.
- FOOTING SUBGRADE MATERIAL SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO FORMING OR STEEL PLACEMENT FOR ALL EARTH RETAINING STRUCTURES.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD THE JURISDICTIONAL AGENCY AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE JURISDICTIONAL AGENCY OR DESIGN PROFESSIONAL.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES AND VERIFY DEPTH AND LOCATION PRIOR TO THE START OF CONSTRUCTION.

AGENCY NOTIFICATIONS

NOTE: THE CONTRACTORS SHALL NOTIFY THE UNDERGROUND SERVICE ALERT FORTY-EIGHT (48) HOURS PRIOR TO STARTING CONSTRUCTION OR EXCAVATION BY CONTACTING (800) 422-4133

SOURCE OF TOPOGRAPHY

FIELD SURVEY BY PASCO LARET SUTTER & ASSOCIATES, DATED FEBRUARY 22, 2023.

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS AND THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE (CBC). SEE PAGE CS FOR APPLICABLE CODES FOR THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND USA ALERT (1-800-422-4133) 48 HOURS PRIOR TO GRADING.
- DUST SHALL BE CONTROLLED BY WATERING OR OTHER METHODS APPROVED BY THE SCHOOL DISTRICT.
- CUT SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE APPROVED, AND SHALL BE SHOWN ON THE PLAN.
- FILL SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE APPROVED. SHALL BE SHOWN ON PLAN, AND SHALL NOT HAVE LESS THAN 95% RELATIVE COMPACTION OUT TO THE FINISHED SURFACE.
- FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS, SCARIFIED AND INSPECTED BY THE GRADING INSPECTOR AND APPROVED SOILS TESTING AGENCY PRIOR TO THE PLACING OF FILL.
- ALL FILL MATERIAL SHALL BE CLEAN EARTH. NO FILL SHALL BE PLACED UNTIL PREPARATION OF GROUND IS APPROVED BY THE SOILS ENGINEER.
- FINISH GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR WALLS AT NOT LESS THAN 1/2" INCH PER FOOT FOR A MINIMUM OF 3 FEET, THEN 1% (MINIMUM) TO FLOW LINE OF EARTH SWALE.
- NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATERCOURSES SHALL BE PERMITTED.
- APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT
- APPROVED EROSION PREVENTIVE DEVICES SHALL BE PROVIDED AND MAINTAINED DURING THE RAINY SEASON AND SHALL BE IN PLACE AT THE END OF EACH DAYS WORK.
- ALL WORK SHALL CONFORM TO THE CITY AND STATE CONSTRUCTION SAFETY ORDERS.
- THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
- AN APPROVED SET OF GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
- SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE FROM BEGINNING TO COMPLETION OF GRADING OPERATIONS.
- ALL SLOPES SHALL BE PLANTED AND IRRIGATION FACILITIES SHALL BE PROVIDED FOR ALL SLOPES IN EXCESS OF 3 FEET VERTICAL HEIGHT WITHIN 90 DAYS AFTER COMPLETION OF ROUGH GRADING.
- ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK.

- NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ARCHITECT AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT OR THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT FOR DISTRIBUTION TO AND RESPONSE BY THE CIVIL ENGINEER PRIOR TO PERFORMING ANY WORK RELATED TO THE AREA(S) IN QUESTION. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (GRAVEL BAGS, HAY BALES, TEMPORARY DESILTING BASINS, Dikes, SHORING, ETC) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY.
- LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS & ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. FOR LOCATION OF ELECTRICAL CABLES, GAS PIPING AND APPURTENANCES CONTACT THE SAN DIEGO GAS & ELECTRIC COMPANY. TELEPHONE: 800-422-4133.
- CONTRACTOR SHALL NOTIFY THE TELEPHONE COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES FOR LOCATION OF CABLES AND APPURTENANCES.
- WHERE TRENCHES ARE WITHIN EASEMENTS OR WITHIN 10' OF ANY BUILDING, A REPORT SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER WHICH INDICATES THAT TRENCH BACKFILL WAS COMPACTED UNDER THE OBSERVATION OF THE SOILS ENGINEER AND IN ACCORDANCE WITH THE ON-SITE EARTHWORK SPECIFICATIONS
- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER. ALL AREAS TO BE FILLED SHALL BE PREPARED TO BE FILLED AND ALL FILL SHALL BE PLACED IN ACCORDANCE WITH THE GRADING SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.

ABBREVIATIONS

AB	AGGREGATE BASE	IE	INVERT ELEVATION
AC	ASPHALT CONCRETE	MH	MANHOLE
ADA	AMERICAN WITH DISABILITIES ACT	MIN	MINIMUM
BFD	BACKFLOW DEVICE	PA	PLANTER AREA
BLDG	BUILDING	PBOX	PULL BOX
BS	BOTTOM OF STAIRS	PL	PROPERTY LINE
BW	BOTTOM OF WALL	POC	POINT OF CONNECTION
CB	CATCH BASIN	POT	PATH OF TRAVEL
CF	CURB FACE	PP	POWER POLE
CMP	CORRUGATED METAL PIPE	PROP	PROPOSED
CNU	CONCRETE MASONRY UNIT	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	RW	RIGHT-OF-WAY
COMM	COMMUNICATIONS	SCO	SEWER CLEANOUT
CONC	CONCRETE	SD	STORM DRAIN
DEMO	DEMOLITION	SDCO	STORM DRAIN CLEANOUT
DS	DOWNSPOUT	SDMH	STORM DRAIN MANHOLE
EG	EDGE OF GUTTER	SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
ELEC	ELECTRICAL	SL	STREET LIGHT
EX	EXISTING	SMH	SEWER MANHOLE
FF	FINISH FLOOR	TC	TOP OF CURB
FG	FINISHED GRADE	TD	TOP OF DECK
FL	FLOW LINE	TG	TOP OF GRATE
FM	FORCE MAIN	TS	TOP OF STAIRS
FS	FINISHED SURFACE	TW	TOP OF WALL
GA	GUY ANCHOR	TYP	TYPICAL
GB	GRADE BREAK	WAR	WATER AIR RELEASE
GFF	GARAGE FINISH FLOOR	WM	WATER METER
GP	GUY POLE	WV	WATER VALVE
GV	GAS VALVE		
HP	HIGH POINT		
HT	HEIGHT		

SHEET INDEX

SHEET NO.	DESCRIPTION
C-1.0	TITLE SHEET
C-2.0	PAVING AND UTILITY PLAN
C-3.0	EROSION CONTROL PLAN
C-4.0	DETAILS

EARTHWORK

CUT:	600	CY
FILL:	00	CY
NET:	600	CY (EXPORT)

CONSTRUCTION NOTES

- SAWCUT AND JOIN EXISTING AC PAVING.
- CONSTRUCT 4" CONCRETE SIDEWALK PER ARCHITECTURAL PLAN.
- CONSTRUCT CURB RAMP TYPE B-1 PER SDRSD G-28 ON SHEET C-4.0.
- CONSTRUCT 6" CURB PER SDRSD G-01 ON SHEET C-4.0
- CONSTRUCT RAMP AND HANDRAILS PER ARCHITECTURAL PLAN.
- CONSTRUCT GATE PER ARCHITECTURAL PLAN.
- UTILITY POINT OF CONNECTION - SEE PLUMBING PLANS FOR CONTINUATION.
- JOIN EXISTING UTILITY. CONTRACTOR TO VERIFY EXISTING LOCATION & ELEVATION.
- INSTALL SEWER LINE. SEE DATA TABLE HEREON. PIPE BEDDING AND TRENCH BACKFILL PER SDRSD SP-02 ON SHEET C-4.0.
- INSTALL SEWER CLEANOUT PER SDRSD SC-01 ON SHEET C-4.0.
- INSTALL BEND, ANGLE PER PLAN, SIZE TO MATCH SEWER LINE.
- INSTALL WATER LINE. SEE DATA TABLE HEREON. MATCH EXISTING PIPE MATERIAL.
- INSTALL VALVE. SIZE TO MATCH WATER LINE.
- INSTALL BEND, ANGLE PER PLAN, SIZE TO MATCH WATER LINE.
- INSTALL CONCRETE THRUST BLOCK PER SDRSD WT-01 ON SHEET C-4.0.
- INSTALL 2X6 REDWOOD HEADER, FLUSH WITH AC PAVING. DETAIL PER ARCHITECTURAL PLAN
- AC PAVEMENT TO MATCH EXISTING EDGE OF CONCRETE PAVEMENT. DETAIL PER ARCHITECTURAL PLAN
- BACKFILL PROPOSED 6" CURBS WITH ASPHALT
- AC PAVEMENT TO MATCH GRADE ALONG EAST SIDE OF FENCE
- TURN-DOWN CONCRETE EDGE WITH HAND RAIL PER ARCHITECTURAL PLAN
- INSTALL TRUNCATED DOMES PER SDRSD G-30 ON SHEET C-4.0
- 6" TO 2" CURB TRANSITION
- GENERATOR PAD
- 3" A.C. PAVING OVER 6" CLASS II BASE PER DETAILS ON ARCHITECTURAL PLAN

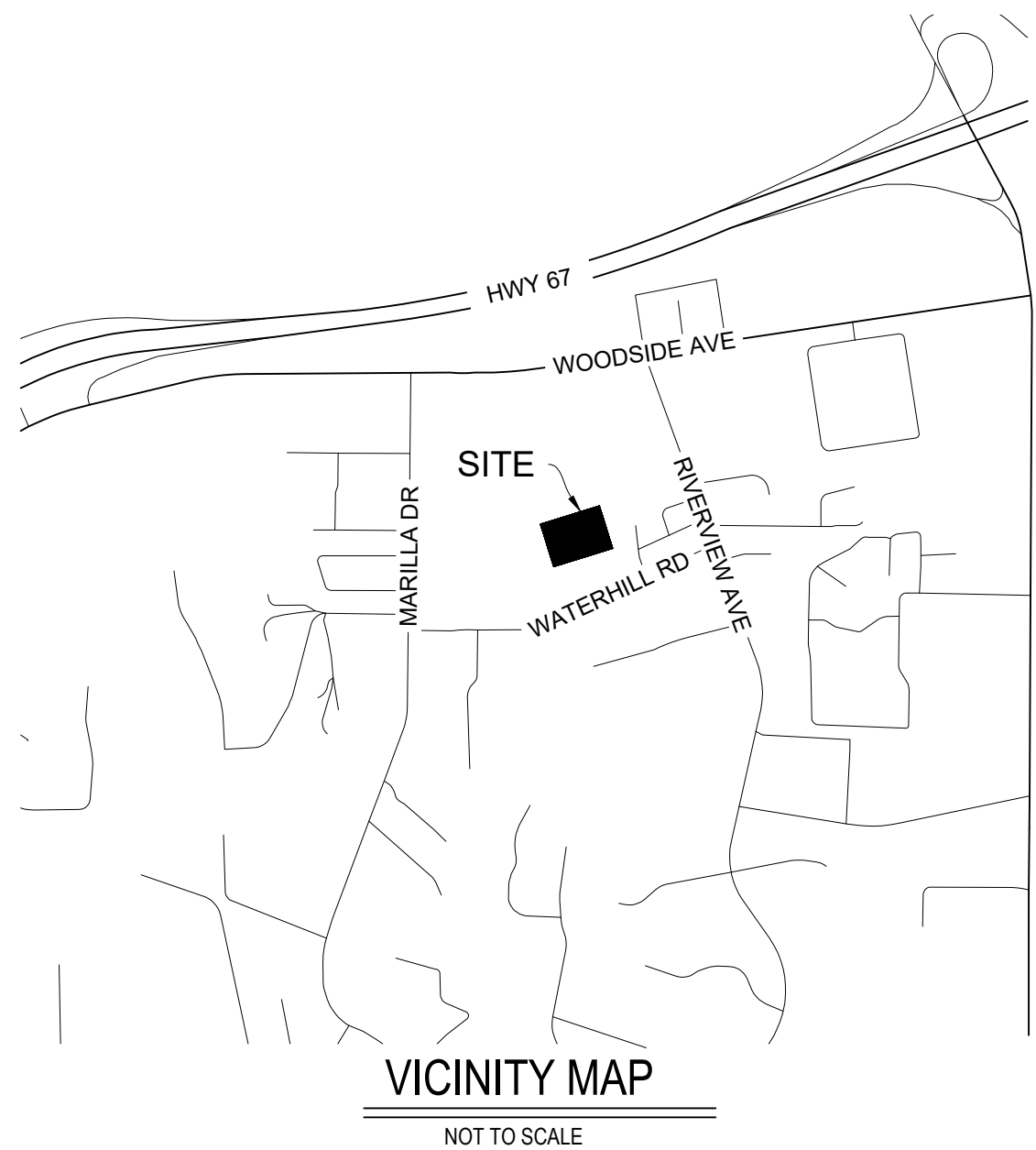
DEMOLITION CONSTRUCTION NOTES

- PROTECT IN PLACE (ITEM PER PLAN)
- REMOVE ITEM (PER PLAN)

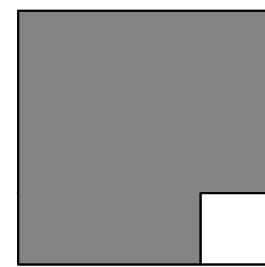
QUANTITY

75	LF
675	SF
1	EA
430	LF
2	EA
1	EA
-	
-	
280	LF 4" PVC
4	EA
3	EA
196	LF 2" PVC
1	EA
4	EA
4	EA
105	LF
-	
-	
-	
-	
1	EA
-	
-	
21,750	SF

-
415 LF WOOD HEADER, 110 LF CHAIN LINK FENCE, 8 EA 4" METAL POLE,
90 LF 6" CURB, 1,120 SF AC PAVING, 21,000 SF ASPHALT



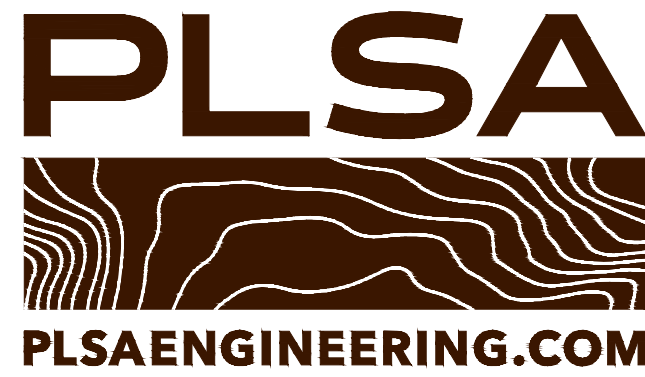
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Lakeside Union School District
12335 Woodside Ave. Lakeside CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION
	11-30-23	50% CD SUBMITTAL
	12-15-23	100% CD SUBMITTAL
PROJECT NO: 23-003		
MODEL FILE: LUSD Technology Dept. Bldg_.pht		
PLOT DATE: 10/27/2023		
SHEET TITLE		

TITLE SHEET

C-1.0

SEWER DATA TABLE			
NO	DISTANCE	BEARING	DESCRIPTION
1	7.84'	S71° 47' 05.85"W	4" PVC SDR35, S=0.020
2	179.30'	N18° 12' 08.41"W	4" PVC SDR35, S=0.020
3	47.06'	N71° 47' 50.34"E	4" PVC SDR35, S=0.020
4	44.15'	N14° 24' 55.88"E	4" PVC SDR35, S=0.020

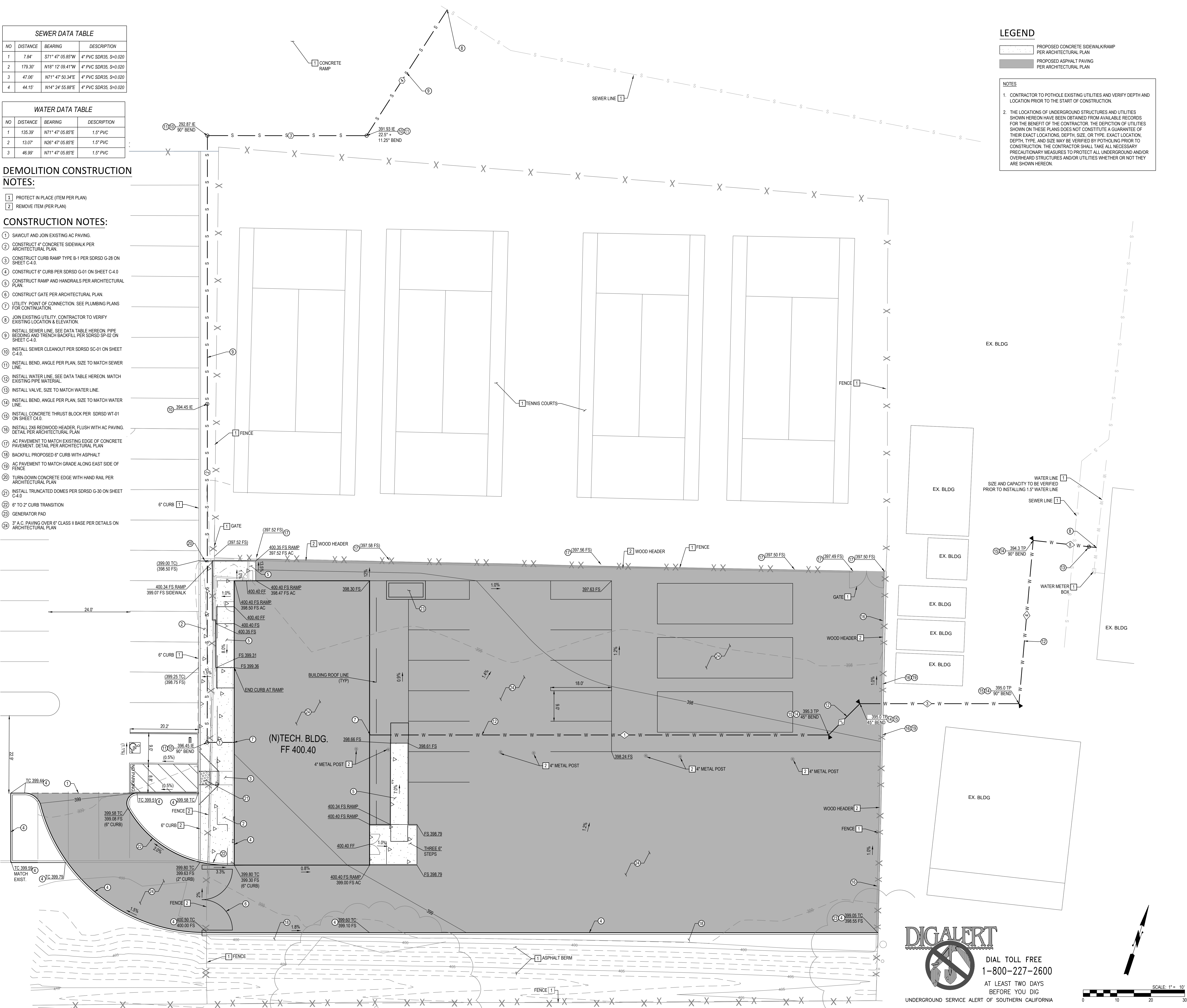
WATER DATA TABLE			
NO	DISTANCE	BEARING	DESCRIPTION
1	135.39'	N71° 47' 05.85"E	1.5" PVC
2	13.07'	N26° 47' 05.85"E	1.5" PVC
3	46.99'	N71° 47' 05.85"E	1.5" PVC

DEMOLITION CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE (ITEM PER PLAN)
2 REMOVE ITEM (PER PLAN)

CONSTRUCTION NOTES:

- 1 SAWCUT AND JOIN EXISTING AC PAVING.
2 CONSTRUCT 4" CONCRETE SIDEWALK PER ARCHITECTURAL PLAN.
3 CONSTRUCT CURB RAMP TYPE B-1 PER SDRSD G-28 ON SHEET C-4.0.
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7 UTILITY POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
8 JOIN EXISTING UTILITY. CONTRACTOR TO VERIFY EXISTING LOCATION & ELEVATION.
9 INSTALL SEWER LINE. SEE DATA TABLE HEREON. PIPE BEDDING AND TRENCH BACKFILL PER SDRSD SP-02 ON SHEET C-4.0.
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13 INSTALL VALVE, SIZE TO MATCH WATER LINE.
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15 INSTALL CONCRETE THRUST BLOCK PER SDRSD WT-01 ON SHEET C-4.0.
16 INSTALL 2X6 REDWOOD HEADER, FLUSH WITH AC PAVING. DETAIL PER ARCHITECTURAL PLAN.
17 AC PAVEMENT TO MATCH EXISTING EDGE OF CONCRETE PAVEMENT. DETAIL PER ARCHITECTURAL PLAN.
18 BACKFILL PROPOSED 6" CURB WITH ASPHALT
19 AC PAVEMENT TO MATCH GRADE ALONG EAST SIDE OF FENCE
20 TURN-DOWN CONCRETE EDGE WITH HAND RAIL PER ARCHITECTURAL PLAN
21 INSTALL TRUNCATED DOMES PER SDRSD G-30 ON SHEET C-4.0
22 6" TO 2" CURB TRANSITION
23 GENERATOR PAD
24 3" A.C. PAVING OVER 6" CLASS II BASE PER DETAILS ON ARCHITECTURAL PLAN



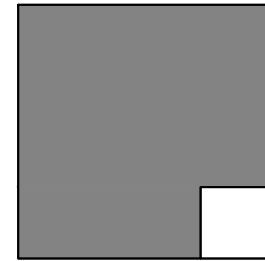
LEGEND

- PROPOSED CONCRETE SIDEWALK/RAMP
PER ARCHITECTURAL PLAN
PROPOSED ASPHALT PAVING
PER ARCHITECTURAL PLAN

NOTES

1. CONTRACTOR TO POTHOLE EXISTING UTILITIES AND VERIFY DEPTH AND LOCATION PRIOR TO THE START OF CONSTRUCTION.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATIONS, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE, AND SIZE MAY BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON.

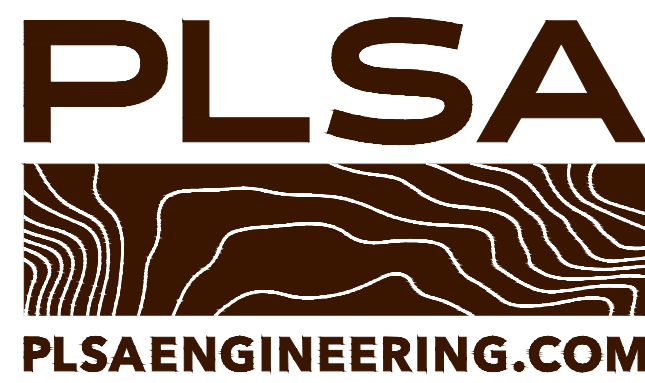
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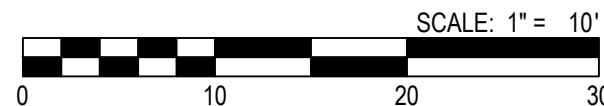
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MODEL FILE:
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PLOT DATE:
10/27/2023

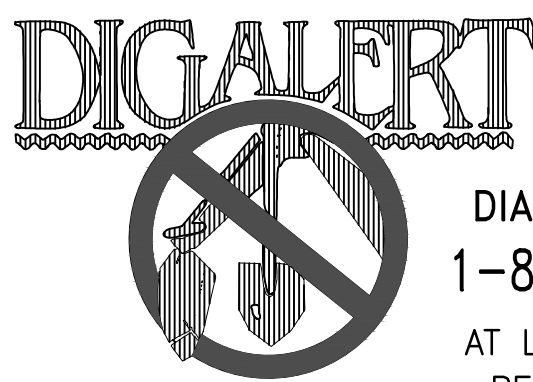
SHEET TITLE

PAVING AND UTILITY PLAN

C-2.0

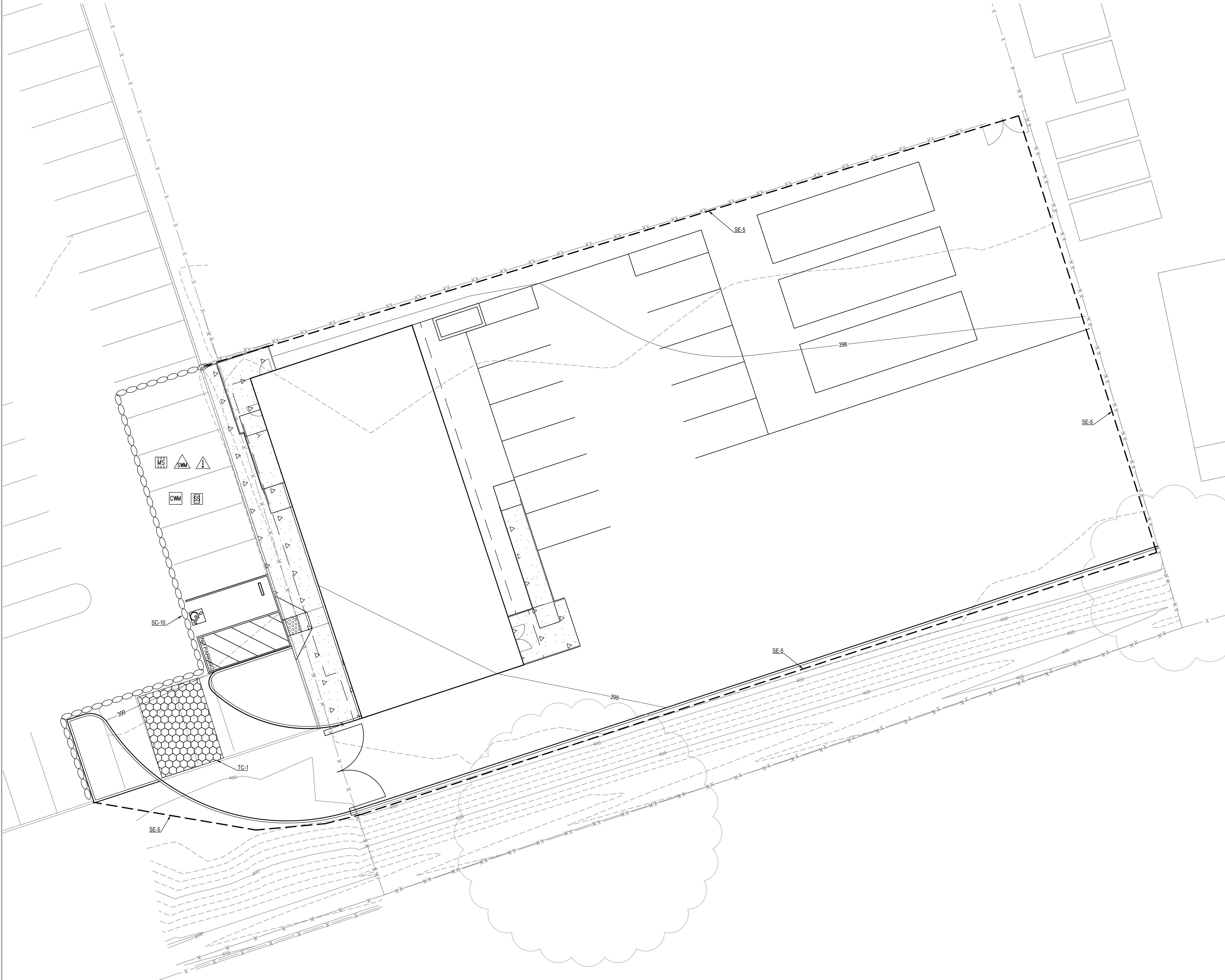


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DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



LEGEND

BEST MANAGEMENT PROTECTION

DESCRIPTION	QTY	SYMBOL
SC-10 GRAVEL BAGS (2 BAGS HIGH)	300 EA.	○○○○
SE-5 FIBER ROLLS	570 L.F.	----
TC-1 STABILIZED CONSTRUCTION ENTRANCE	N/A	□□□□
WM-1 MATERIAL DELIVERY STORAGE	1 EA.	WS
WM-5 SOLID WASTE MANAGEMENT	1 EA.	SWM
WM-6 HAZARDOUS WASTE MANAGEMENT	1 EA.	HAZ
WM-8 CONCRETE WASTE MANAGEMENT	1 EA.	CWM
WM-9 SANITARY/SEPTIC WASTE MANAGEMENT	1 EA.	SS

EROSION AND SEDIMENT CONTROL NOTES

- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.0' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY WATER EROSION AND SEDIMENT CONTROL DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE INSPECTOR OR AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE AGENCY PERSONNEL DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE INSPECTOR.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING THE AREAS FOR WHICH THE CONTRACTOR OR A QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

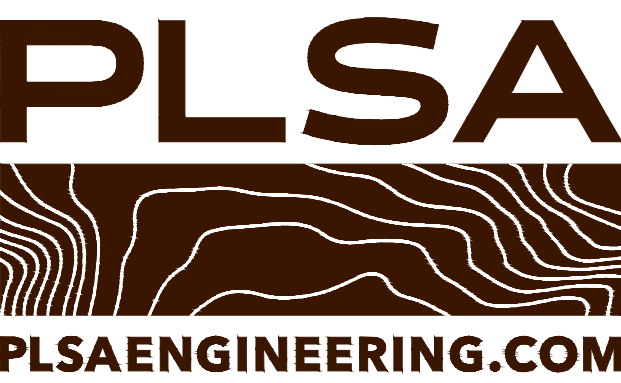
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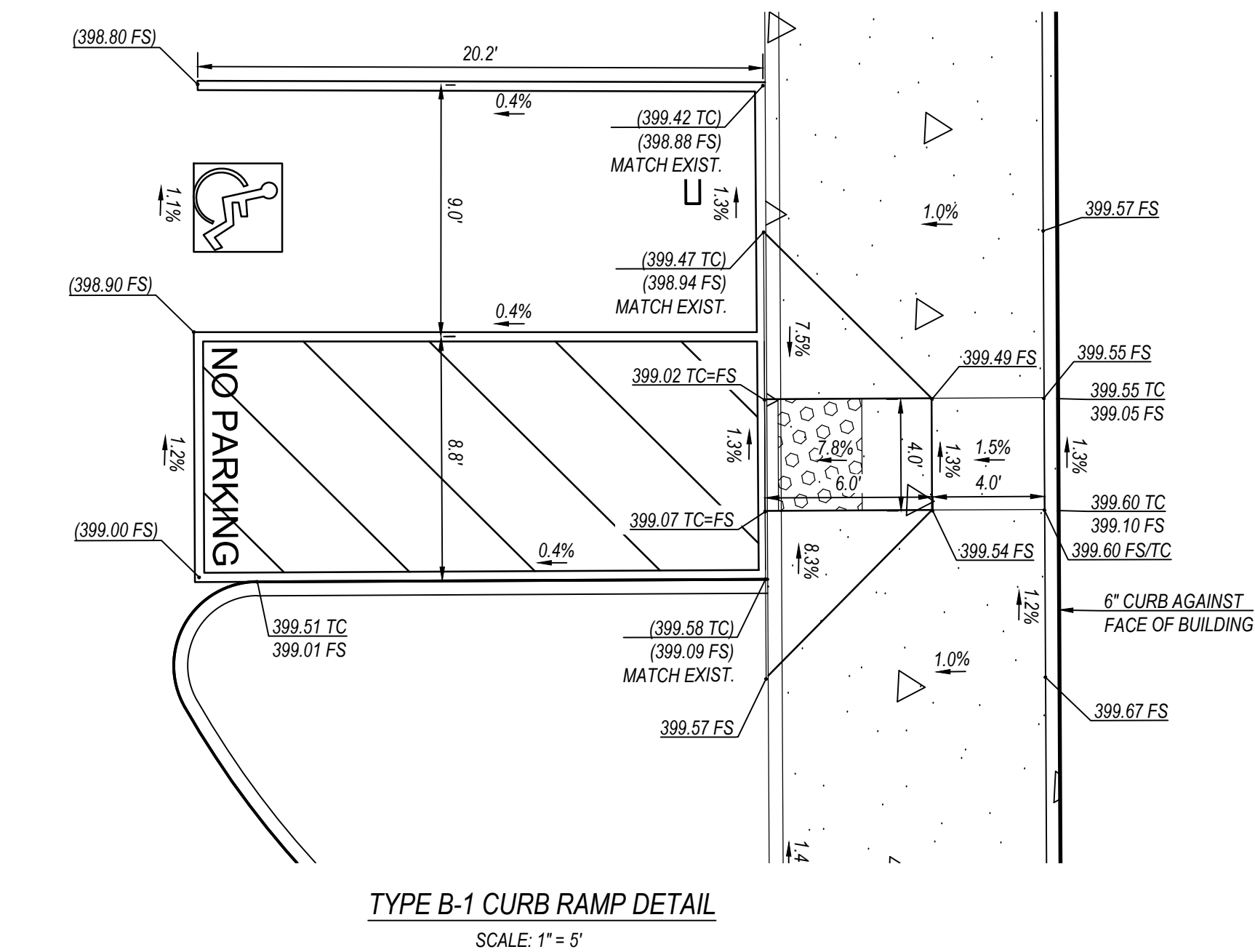
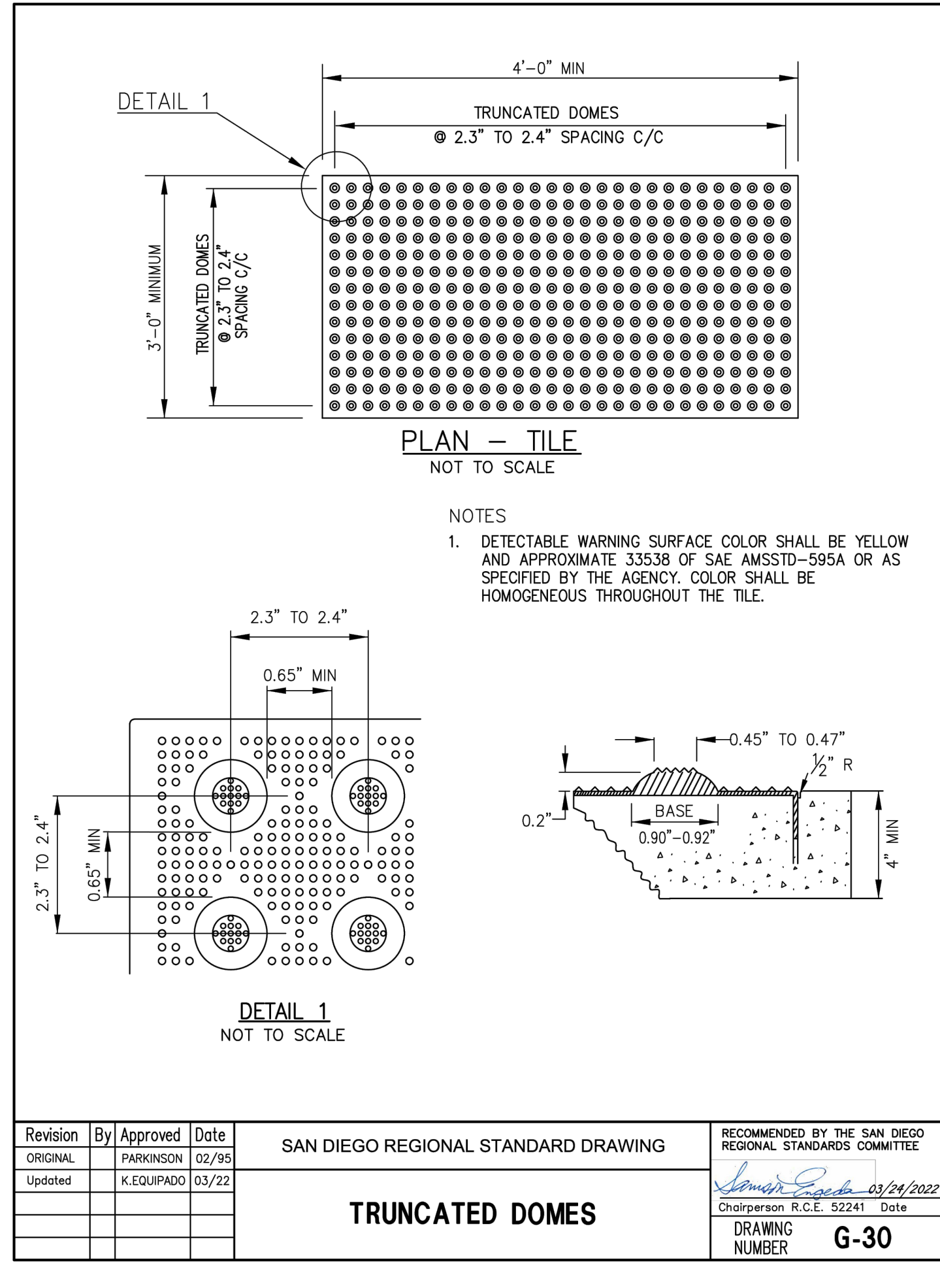
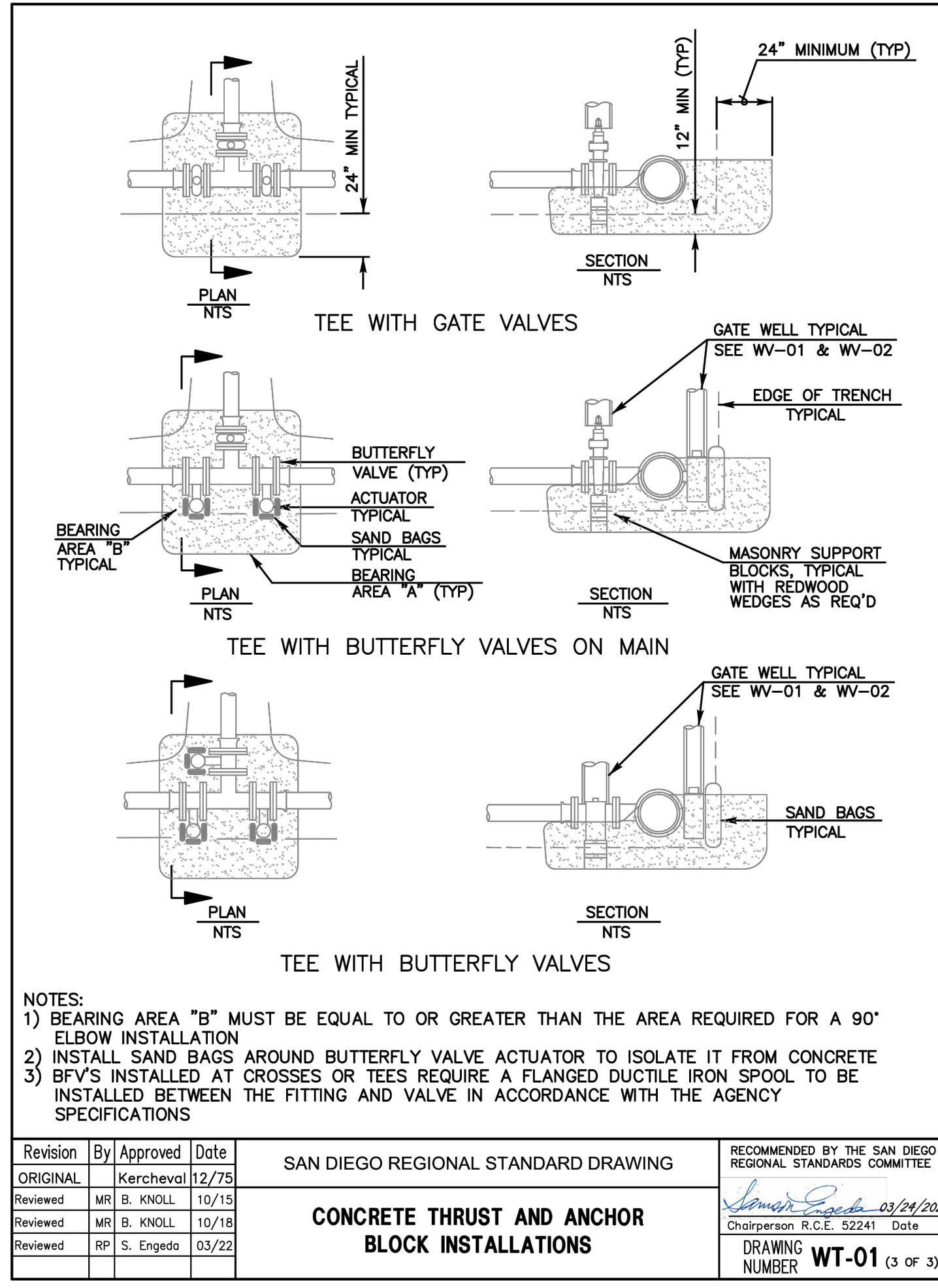
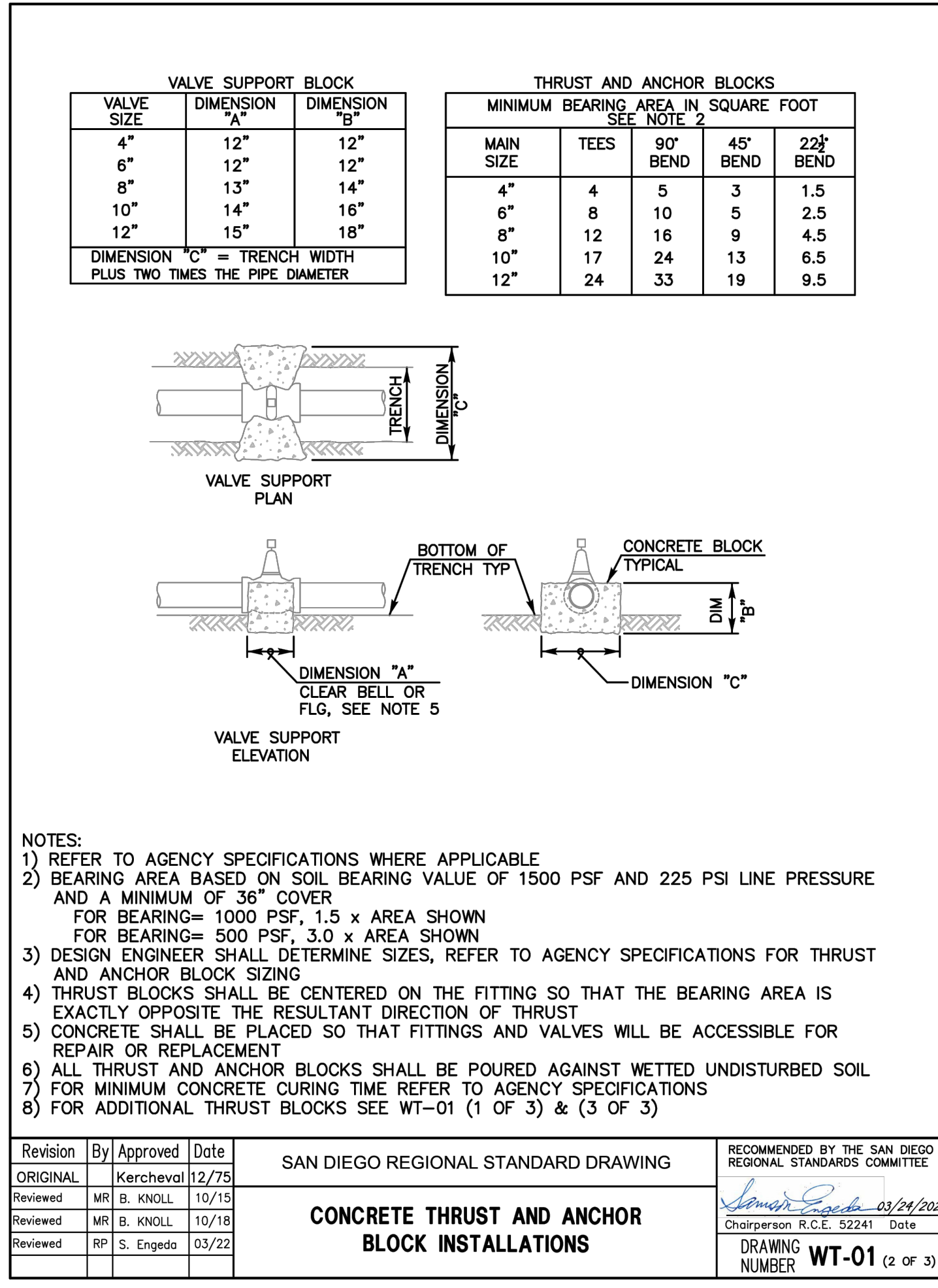
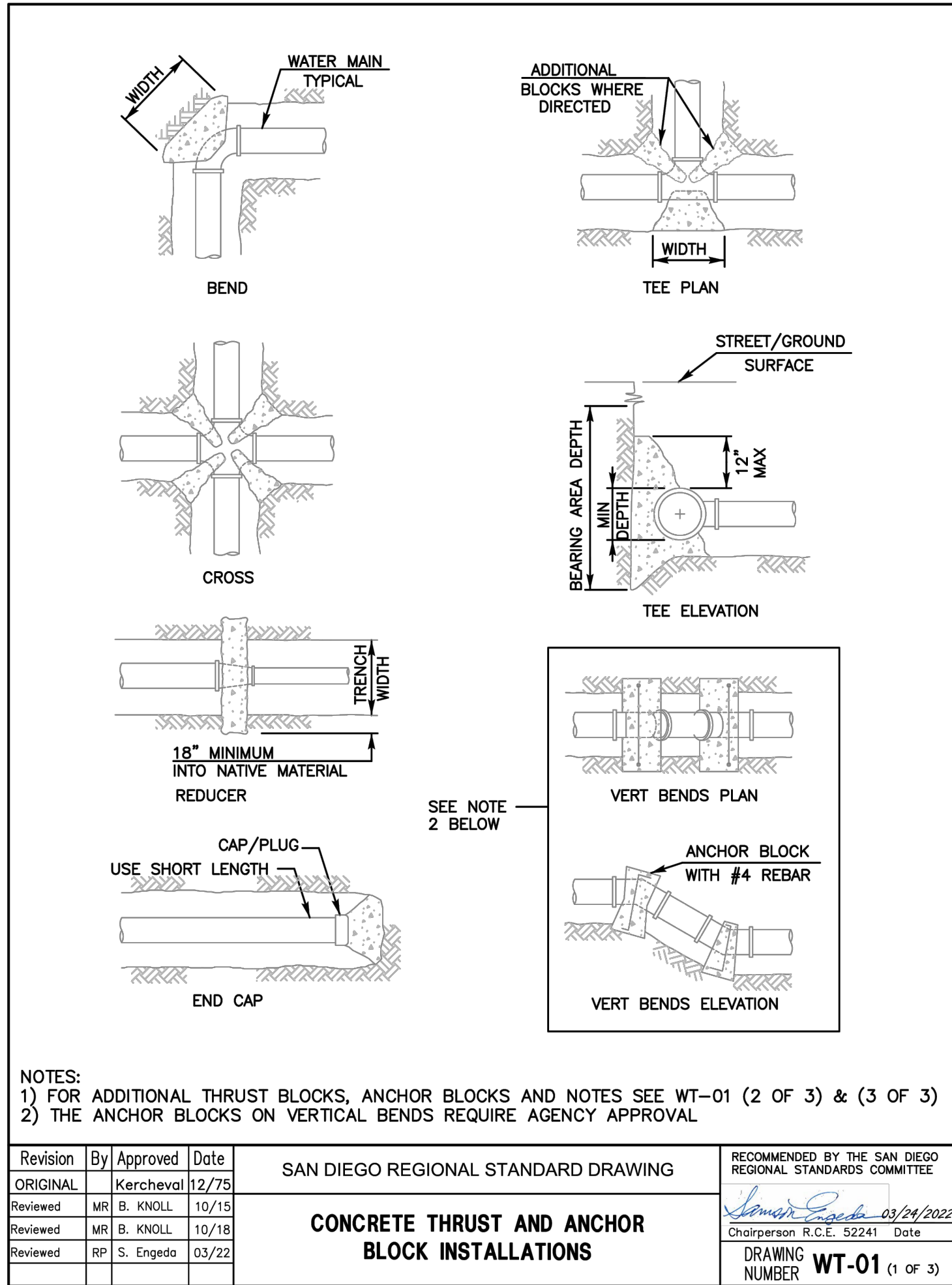
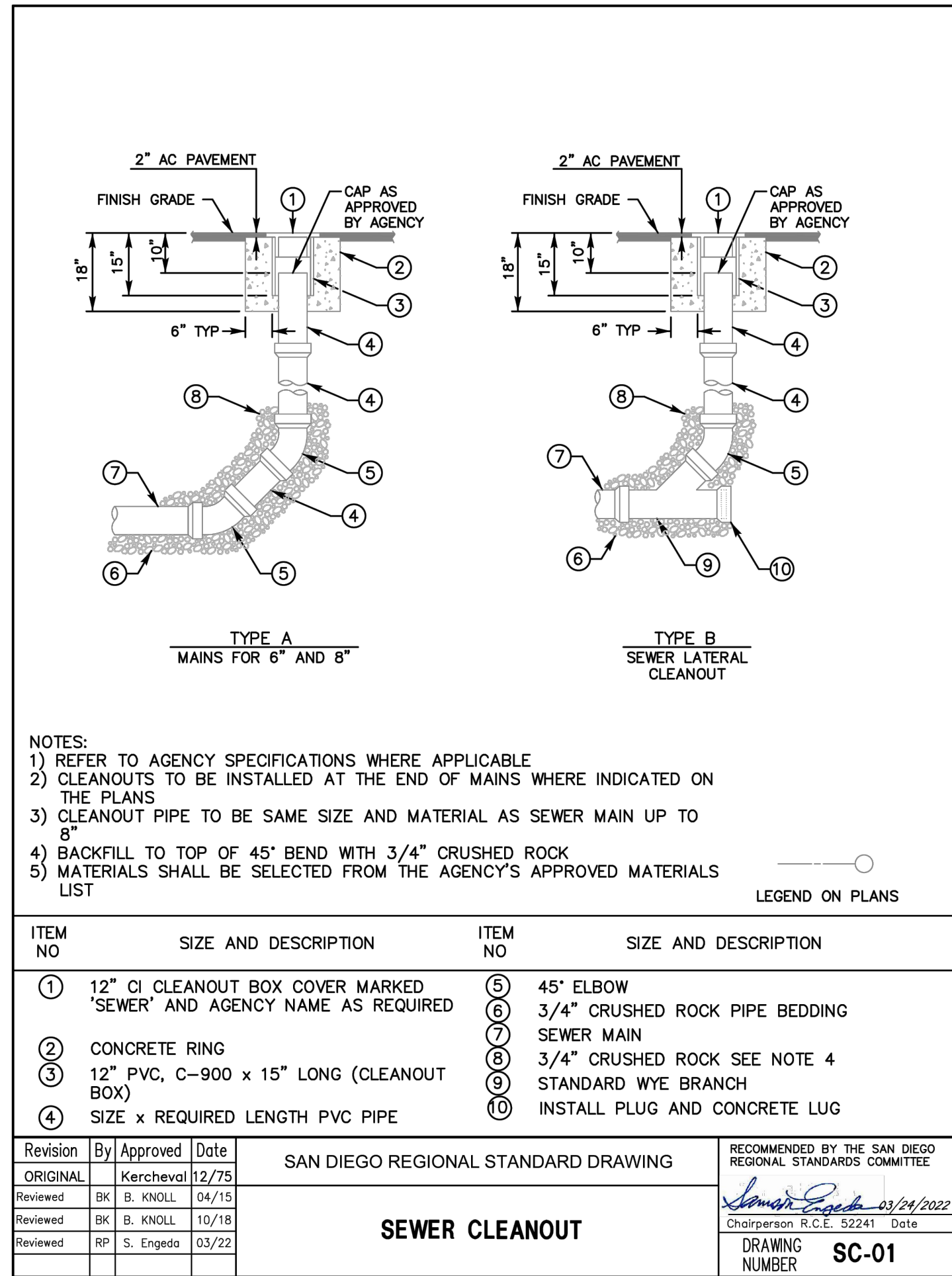
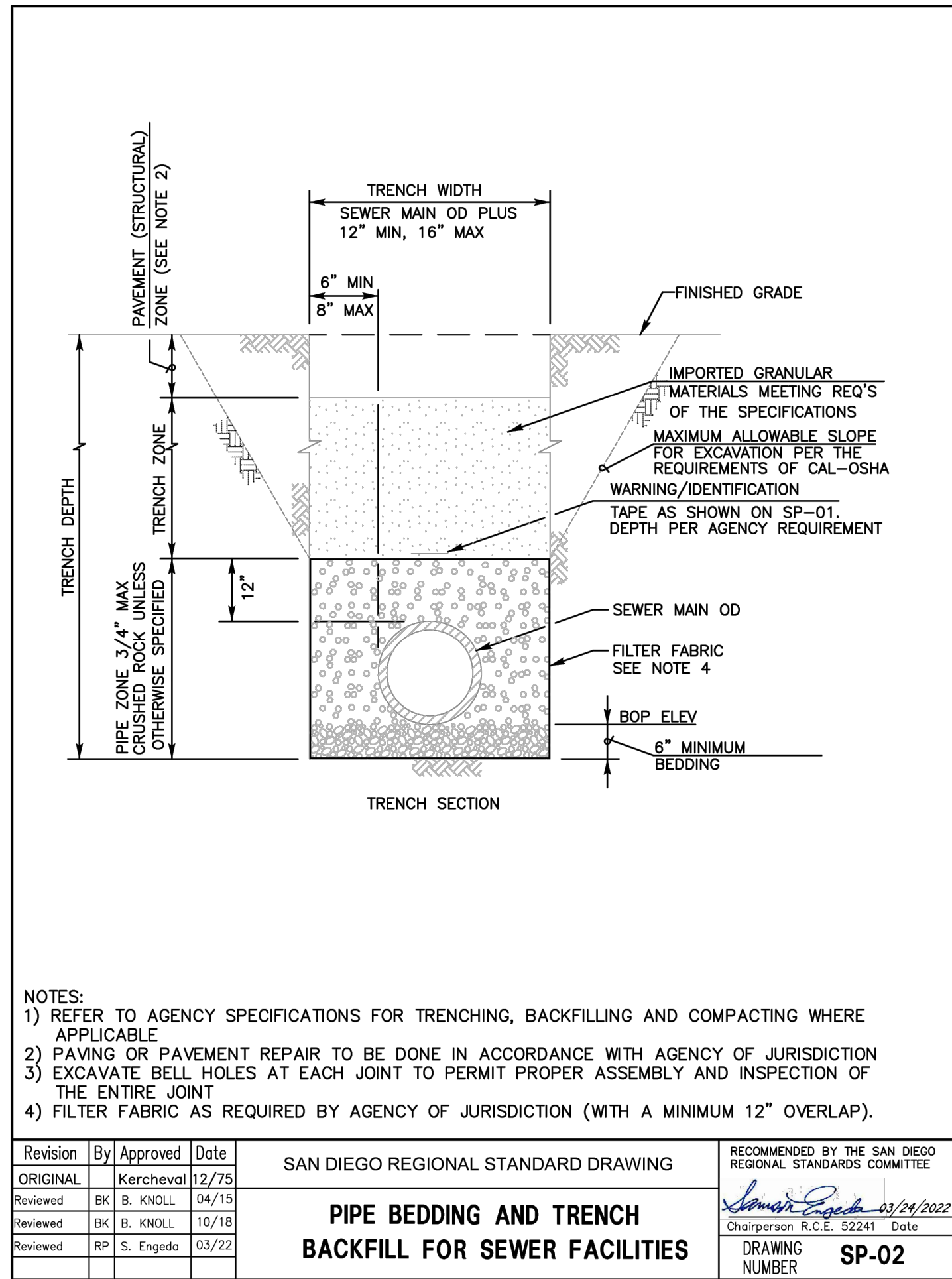
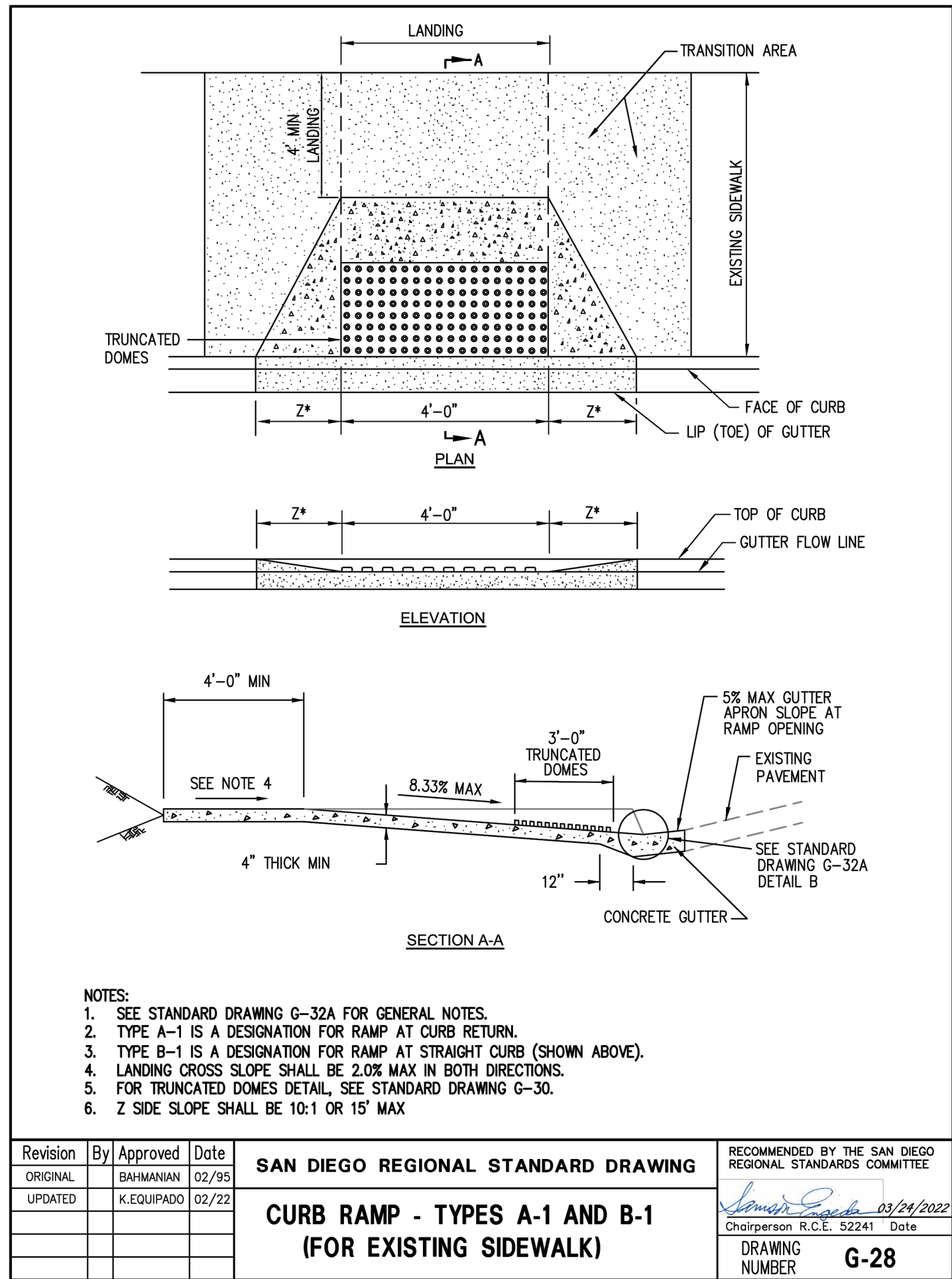
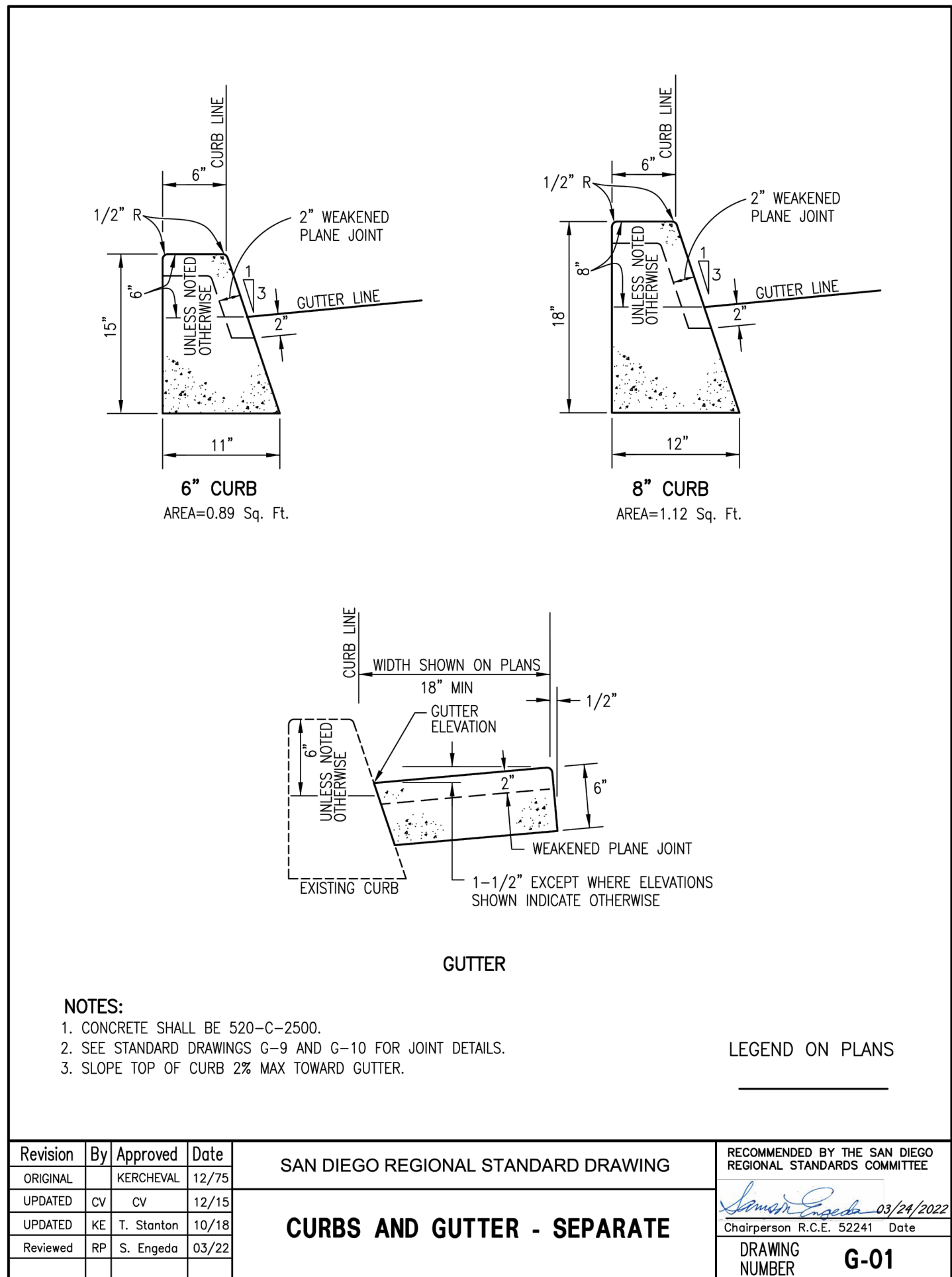
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LUSD Technology Dept. Bldg_.pin

PLOT DATE:
10/27/2023

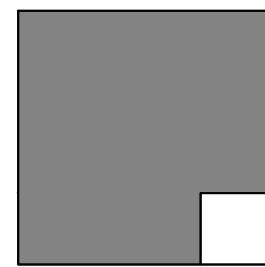
SHEET TITLE

EROSION CONTROL PLAN

C-3.0



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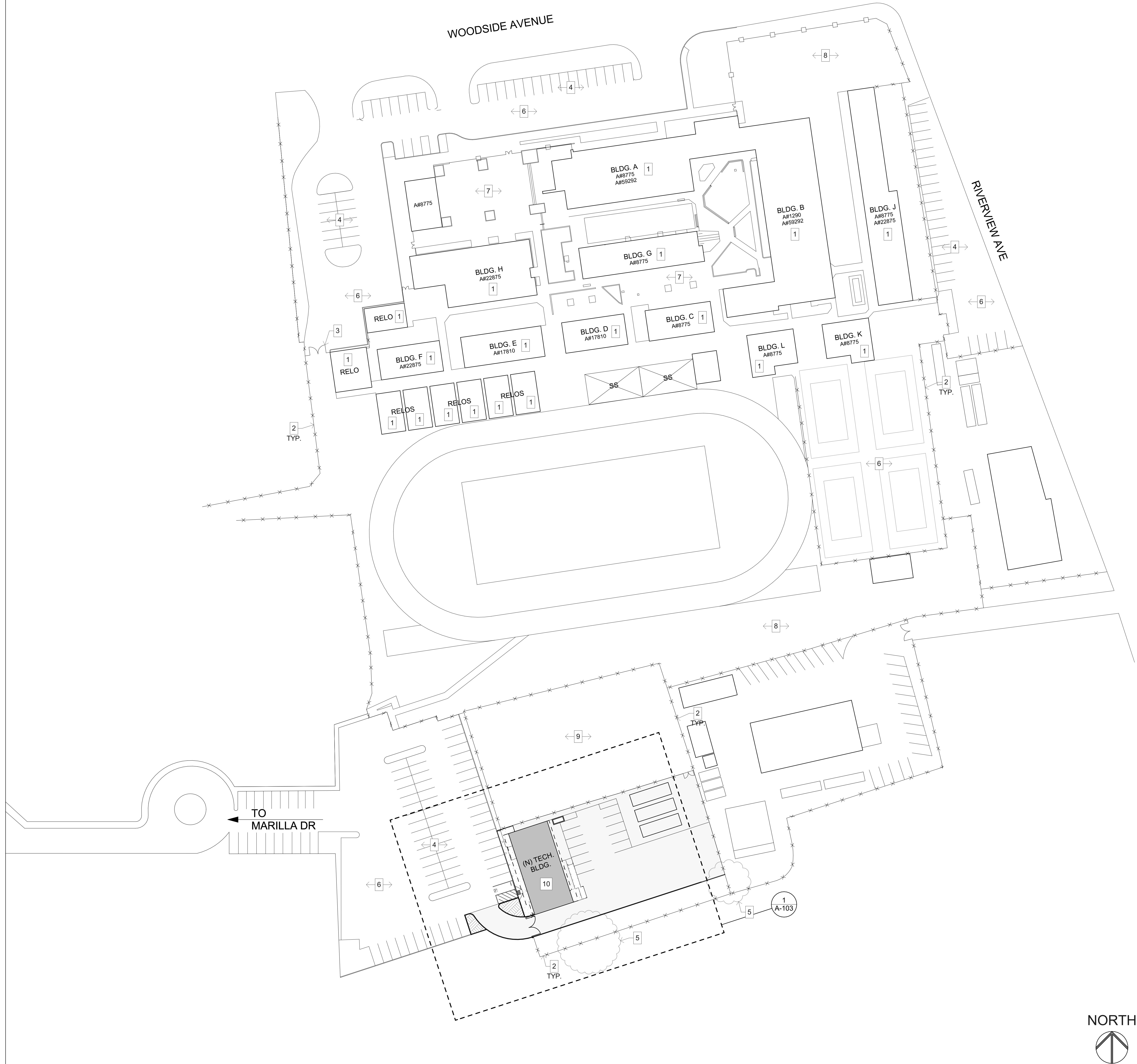
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PLOT DATE:
10/27/2023

SHEET TITLE

DETAILS

C-4.0

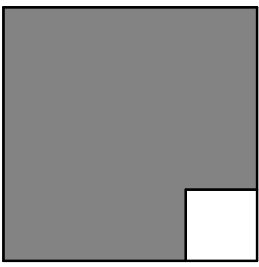


1 OVERALL SITE PLAN (W/ LAKESIDE MIDDLE SCHOOL)
SCALE: 1" = 40'

NOTES

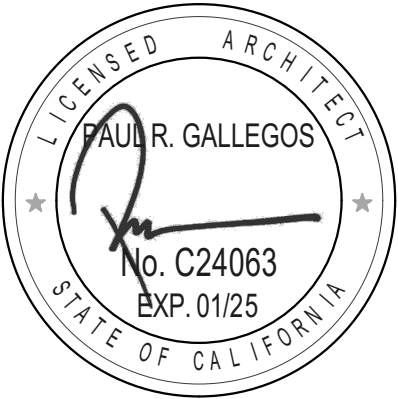
1. EXISTING BUILDING TO REMAIN - N.I.C.
2. EXISTING CHAIN LINK FENCING TO REMAIN.
3. EXISTING 20'-0" WIDE VEHICULAR GATE TO REMAIN.
4. EXISTING PARKING TO REMAIN.
5. EXISTING TREE TO REMAIN.
6. EXISTING AC PAVING TO REMAIN.
7. EXISTING CONCRETE PAVING TO REMAIN.
8. EXISTING LANDSCAPING TO REMAIN.
9. EXISTING TENNIS COURTS TO REMAIN.
10. NEW LOCATION OF 84' X 40' RELOCATABLE BUILDING (BY MODULAR STRUCTURES INT. INC ORIGINAL PC# 04-109319). MOVED FROM STORAGE AT EUCALYPTUS HILLS SCHOOL AND PLACED ON ASPHALT PAVING ON NEW RAISED WOOD FOUNDATION CONSTRUCTED PER THE ATTACHED MFR'S DRAWINGS AND DETAILS.

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REVISIONS		
MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

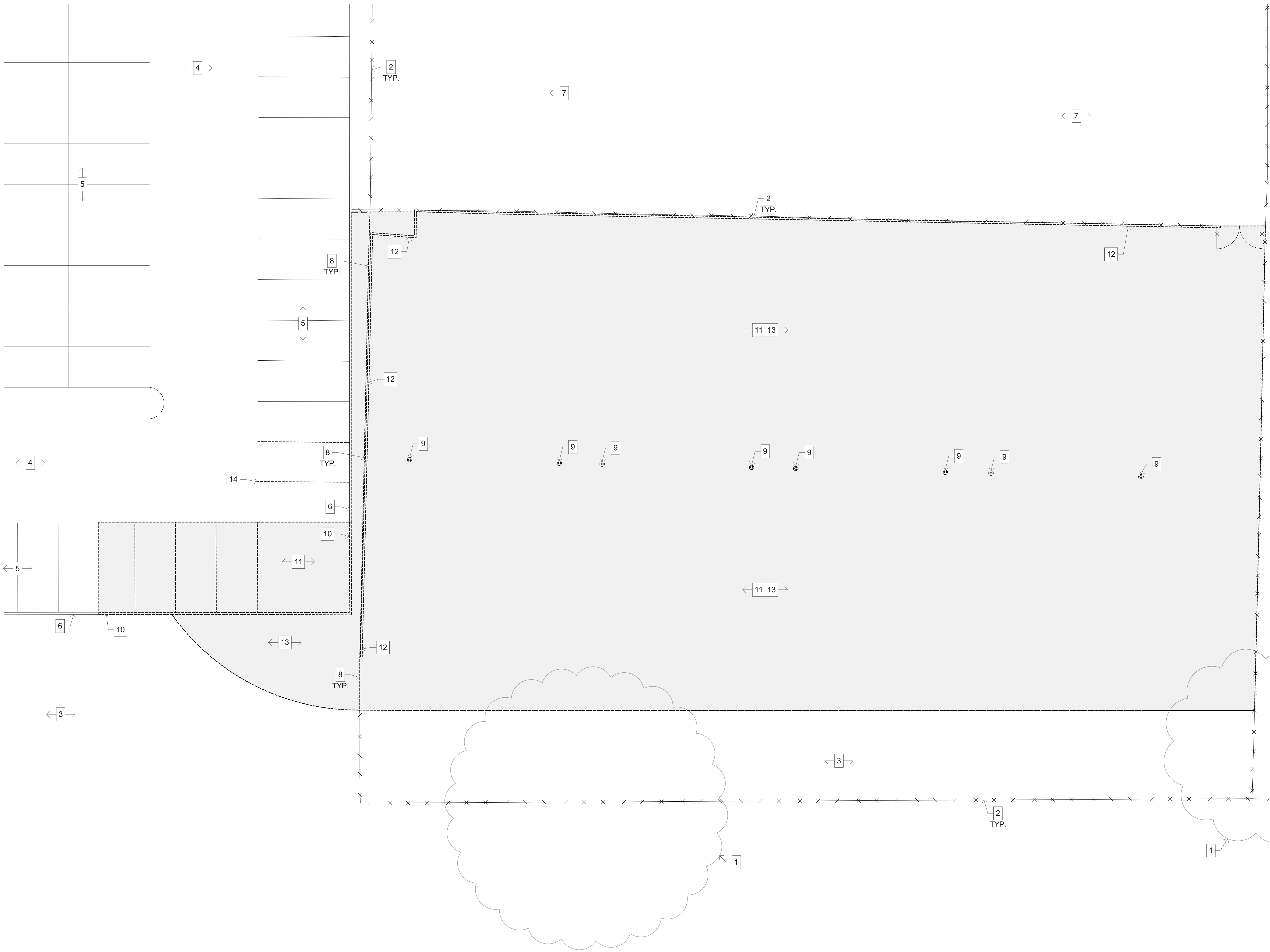
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LUSD Technology Dept. Bldg_.pln

PLOT DATE:
12/21/2023

SHEET TITLE

OVERALL SITE PLAN

A-101



1

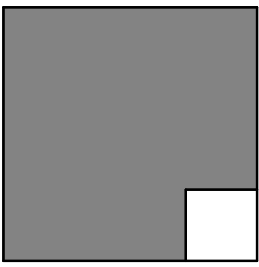
DEMOLITION ENLARGED SITE PLAN

SCALE: 1" = 10'

NOTES

1. EXISTING TREE TO REMAIN.
2. EXISTING CHAIN LINK FENCING TO REMAIN.
3. EXISTING LANDSCAPE AREA TO REMAIN.
4. EXISTING AC PAVING TO REMAIN.
5. EXISTING PARKING TO REMAIN.
6. EXISTING CONCRETE CURB TO REMAIN.
7. EXISTING TENNIS COURT TO REMAIN.
8. DEMO AND REMOVE EXISTING CHAIN LINK FENCING.
9. DEMO AND REMOVE EXISTING POST AND ALL RELATED APPURTENANCES.
10. DEMO AND REMOVE EXISTING CONCRETE CURB.
11. DEMO AND REMOVE EXISTING AC PAVING.
12. DEMO AND REMOVE EXISTING WOOD HEADER.
13. EXISTING LANDSCAPE AREA TO BE PREPPED FOR NEW IMPROVEMENTS.
14. BLACK OUT EXISTING STRIPING.

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REVISIONS

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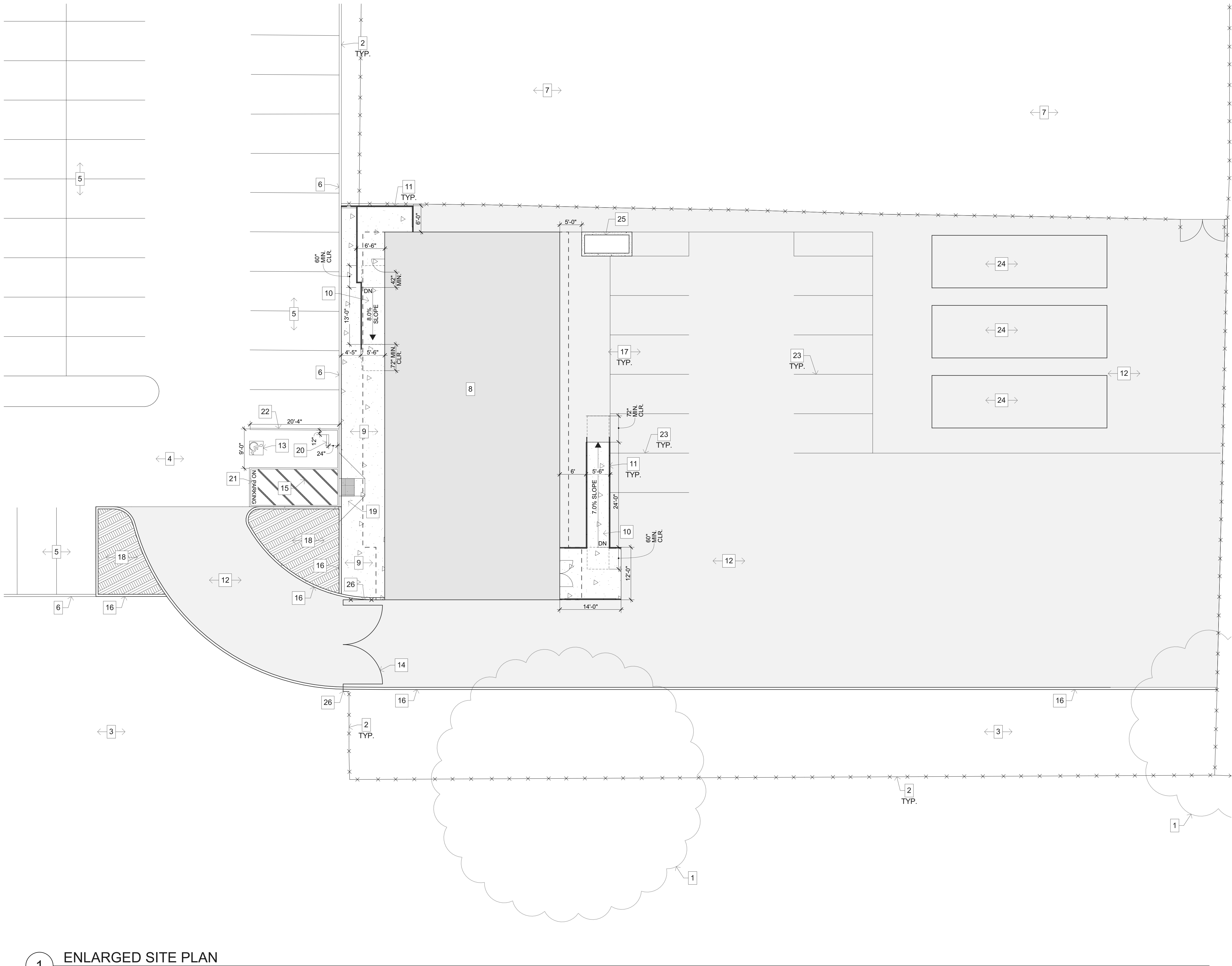
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12/21/2023

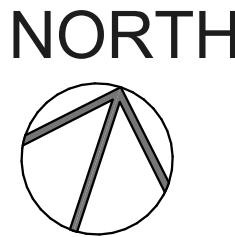
SHEET TITLE

DEMOLITION ENLARGED
SITE PLAN

A-102



1 ENLARGED SITE PLAN
SCALE: 1" = 10'



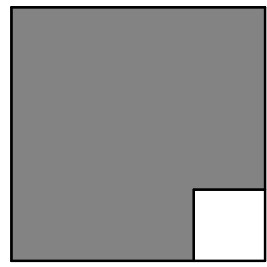
NOTES

- EXISTING TREE TO REMAIN.
- EXISTING CHAIN LINK FENCING TO REMAIN.
- EXISTING LANDSCAPE AREA TO REMAIN.
- EXISTING AC PAVING TO REMAIN.
- EXISTING PARKING TO REMAIN.
- EXISTING CONCRETE CURB TO REMAIN.
- EXISTING TENNIS COURT TO REMAIN.
- NEW LOCATION OF 84' X 40' RELOCATABLE BUILDING (BY MODULAR STRUCTURES INT. INC ORIGINAL PC# 04-109319). MOVED FROM STORAGE AT EUCALYPTUS HILLS SCHOOL AND PLACED ON ASPHALT PAVING ON NEW RAISED WOOD FOUNDATION CONSTRUCTED PER THE ATTACHED MFR'S DRAWINGS AND DETAILS.
- NEW 4" THICK CONCRETE PAVING PER DETAILS 1 & /A-105 AND CIVIL DRAWINGS.
- NEW CONCRETE RAMP AND LANDING PER DETAIL 5 & 11/A-104 AND CIVIL DRAWINGS.
- NEW HANDRAIL PER DETAIL 5 & 6/A-104
- NEW 3" A.C. PAVING OVER 6" CLASS II BASE PER DETAIL 4/A-105 AND CIVIL DRAWINGS.
- NEW 36" SQUARE ISA SYMBOL PER DETAIL 3/A-104.
- NEW 9'-0" WIDE PER LEAF CHAIN LINK VEHICULAR GATE PER DETAIL 6/A-105.
- NEW ACCESS AISLE WITH 4" BLUE BORDERS AND 4" PAINTED WHITE DIAGONAL STRIPES 36" O.C. TYP. ACCESS AISLES SHALL HAVE A 2% MAX SLOPE IN ALL DIRECTIONS.
- NEW CONCRETE CURB PER CIVIL DRAWINGS.
- NEW STANDARD PARKING STALL.
- NEW LANDSCAPE AREA.
- NEW CURB RAMP PER DETAIL 8/A-104.
- NEW PRE-CAST CONCRETE WHEELSTOP PER DETAIL 4/A-104.
- NEW 12" HIGH PAINTED WHITE "NO PARKING". STRIPES SHALL NOT CROSS THE LETTERS.
- NEW 4" WIDE PAINTED BLUE LINE.
- NEW 4" WIDE PAINTED WHITE LINE.
- AREA OF STORAGE BIN.
- NEW GENERATOR ON CONCRETE PAD PER ELECTRICAL DRAWINGS.
- NEW 7'-0" HIGH CHAIN LINK FENCING PER DETAIL 8/A-105.

GENERAL NOTES

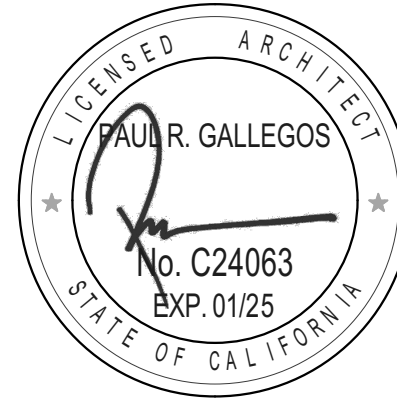
- ALL LANDSCAPE AREAS, PAVING, AND SURFACING DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR TO ORIGINAL INDUSTRY STANDARD OF QUALITY.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, SIGNAL, PLUMBING, ETC. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING UTILITIES DURING CONSTRUCTION AND/OR TRENCHING.
- REFER TO DETAILS 11 & 12/A-105 FOR ANY UTILITY TRENCHING.
- BUILDING FINISH FLOOR SHALL BE SET AT A MINIMUM FOUNDATION PLATE HEIGHT PER MANUFACTURER'S DRAWINGS.
- PROVIDE ADEQUATE SLOPE FOR DRAINAGE BENEATH BUILDING TO PREVENT WATER FROM PONDING.
- AFTER DISMANTLING AND RELOCATING BUILDINGS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SET AND REASSEMBLE BUILDINGS IN ACCORDANCE WITH THE ORIGINAL BUILDING MANUFACTURER'S DRAWINGS AND SPECIFICATIONS. ANY DEFICIENCIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT.
- AFTER RELOCATABLE BUILDINGS ARE PROPERLY SET, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONNECTIONS ARE PROPERLY INSTALLED AND THAT THE BUILDING ROOF, FLASHING, AND EXTERIOR FINISH ARE WEATHER TIGHT. PROVIDE NEW FLASHING, CAULKING, TRIM, ETC. AS REQUIRED TO ENSURE PROPER PERFORMANCE OF EXTERIOR FINISH MATERIALS/SYSTEMS.
- PROVIDE NEW PLYWOOD SKIRTING TO MATCH EXISTING IN TYPE AND FINISH AS REQUIRED TO REPLACE DAMAGED SKIRTING OR TO COMPLETE INSTALLATION OF THE SKIRTING AROUND ENTIRE PERIMETER OF THE RELOCATABLE.
- PAINT ALL EXTERIOR WALL SURFACES, INCLUDING BUT NOT LIMITED TO WALL SIDING, DOORS & FRAMES, TRIM, ETC. AT BUILDING. REFER TO SPECIFICATIONS.
- NEW RAISED WOOD FOUNDATION SYSTEM TO BE INSTALLED PER ORIGINAL BUILDING MANUFACTURER'S DRAWINGS AND DETAILS ATTACHED. BOLTING OF MODULES AT ROOF AND FLOOR SHALL BE PER BUILDING MANUFACTURER'S DRAWINGS AND DETAILS ATTACHED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ANCHORING DEVICES, TIE-PLATES, FASTENERS, AND HARDWARE AS DETAILED IN ORIGINAL BUILDING MANUFACTURER'S DRAWINGS THAT ARE REQUIRED FOR ATTACHMENT OF BUILDING TO WOOD FOUNDATION SYSTEM AND FOUNDATION TO PAVING.

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REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

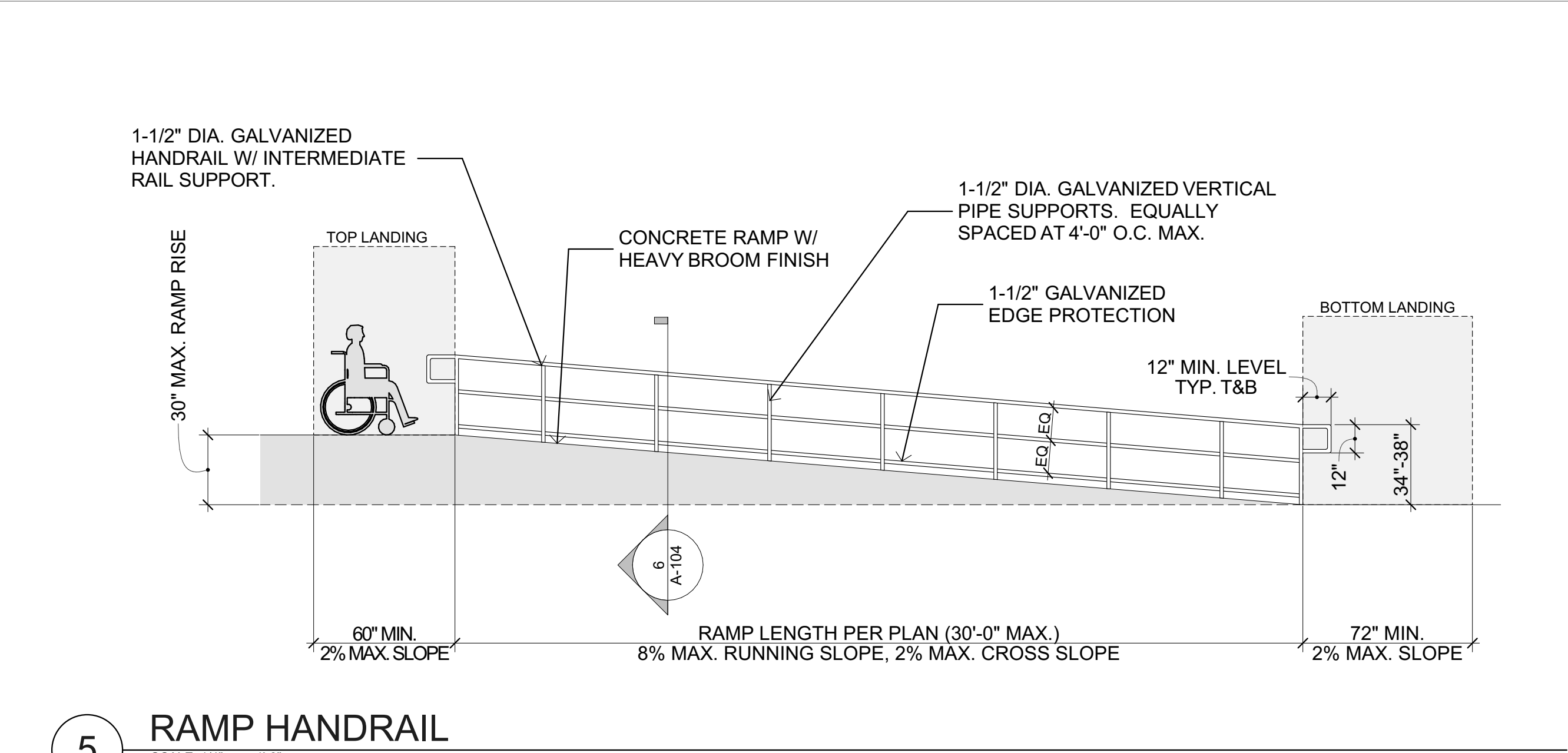
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PLOT DATE:
12/21/2023

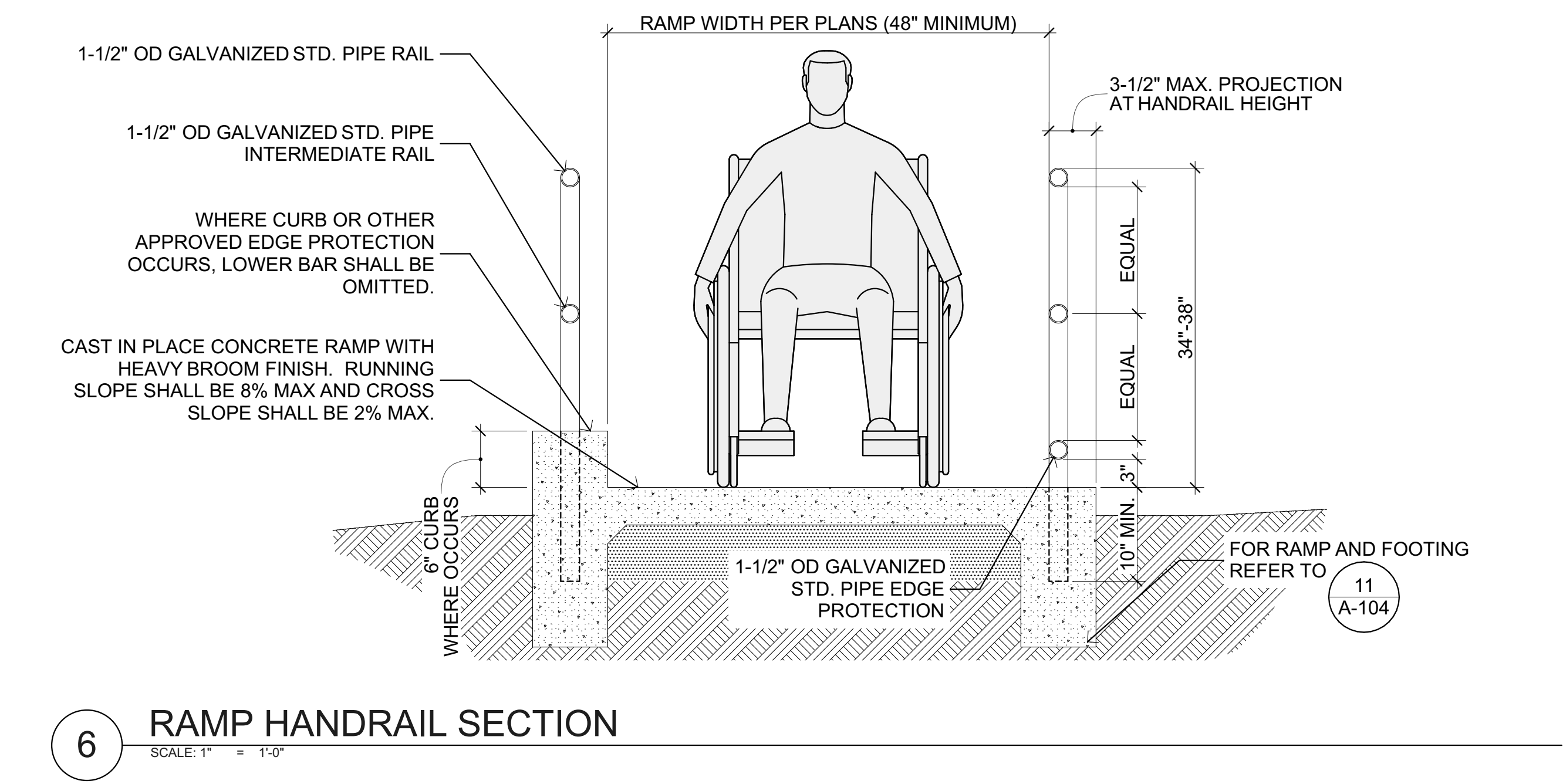
SHEET TITLE

ENLARGED SITE PLAN

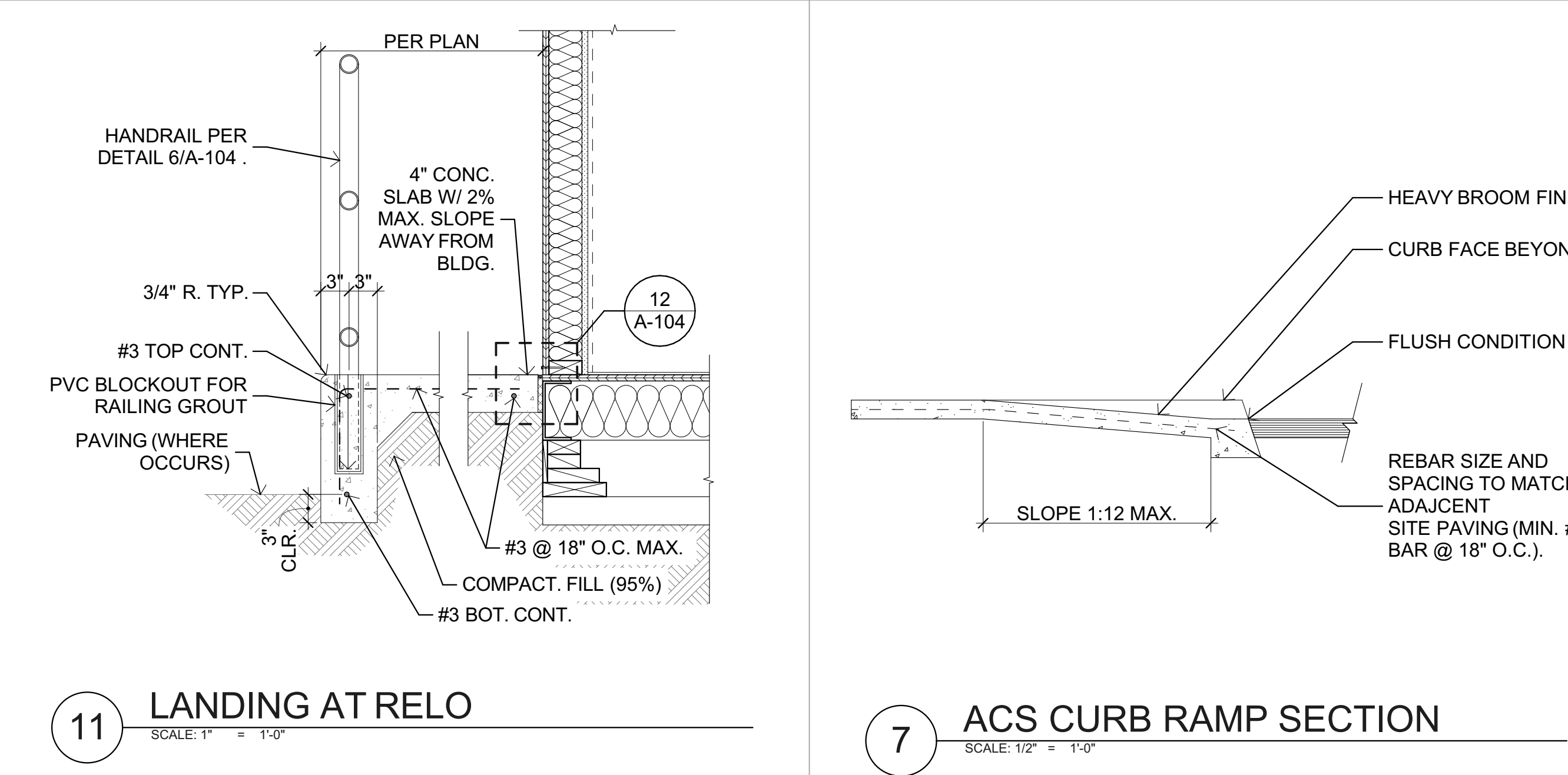
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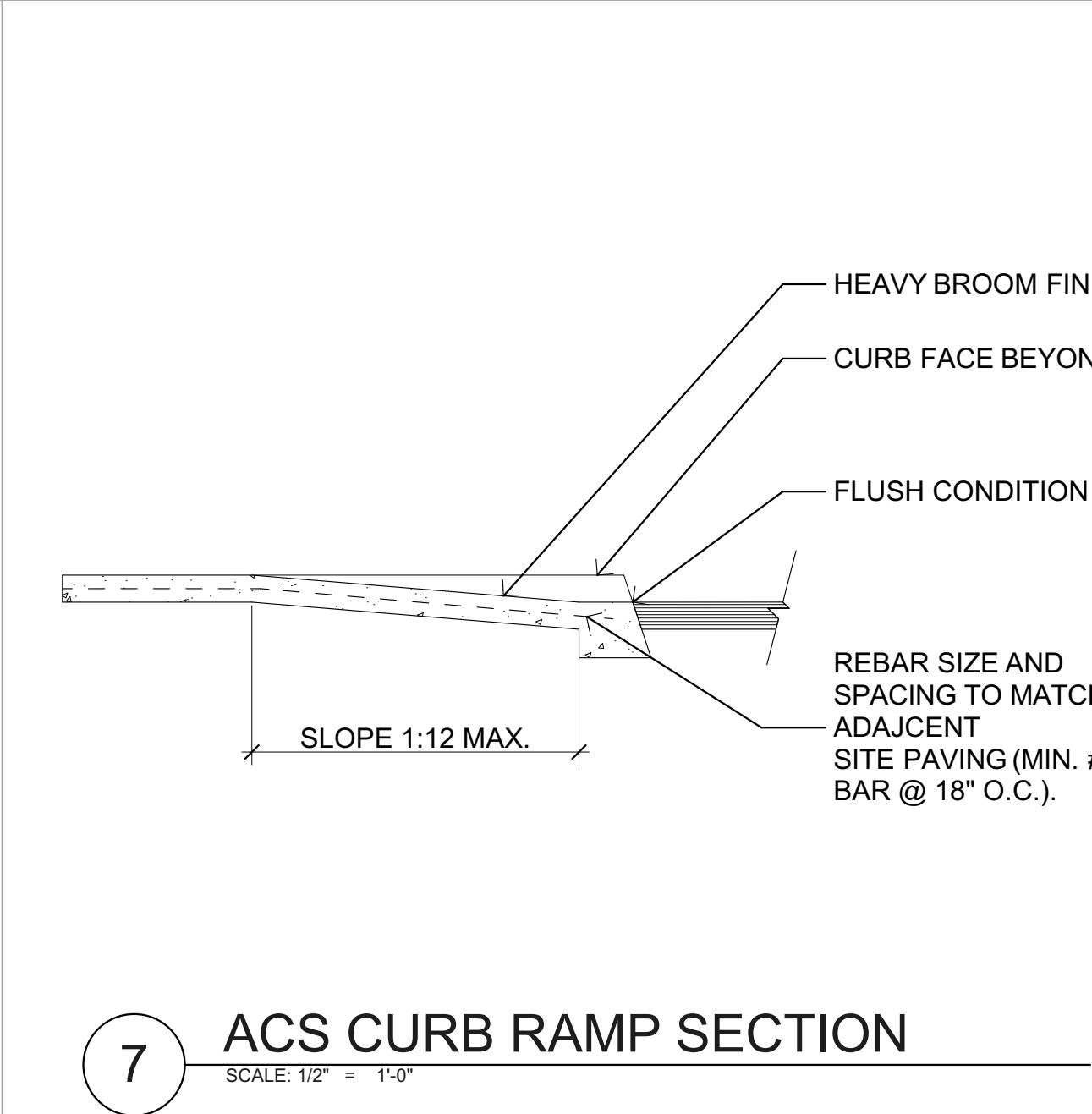
5 RAMP HANDRAIL



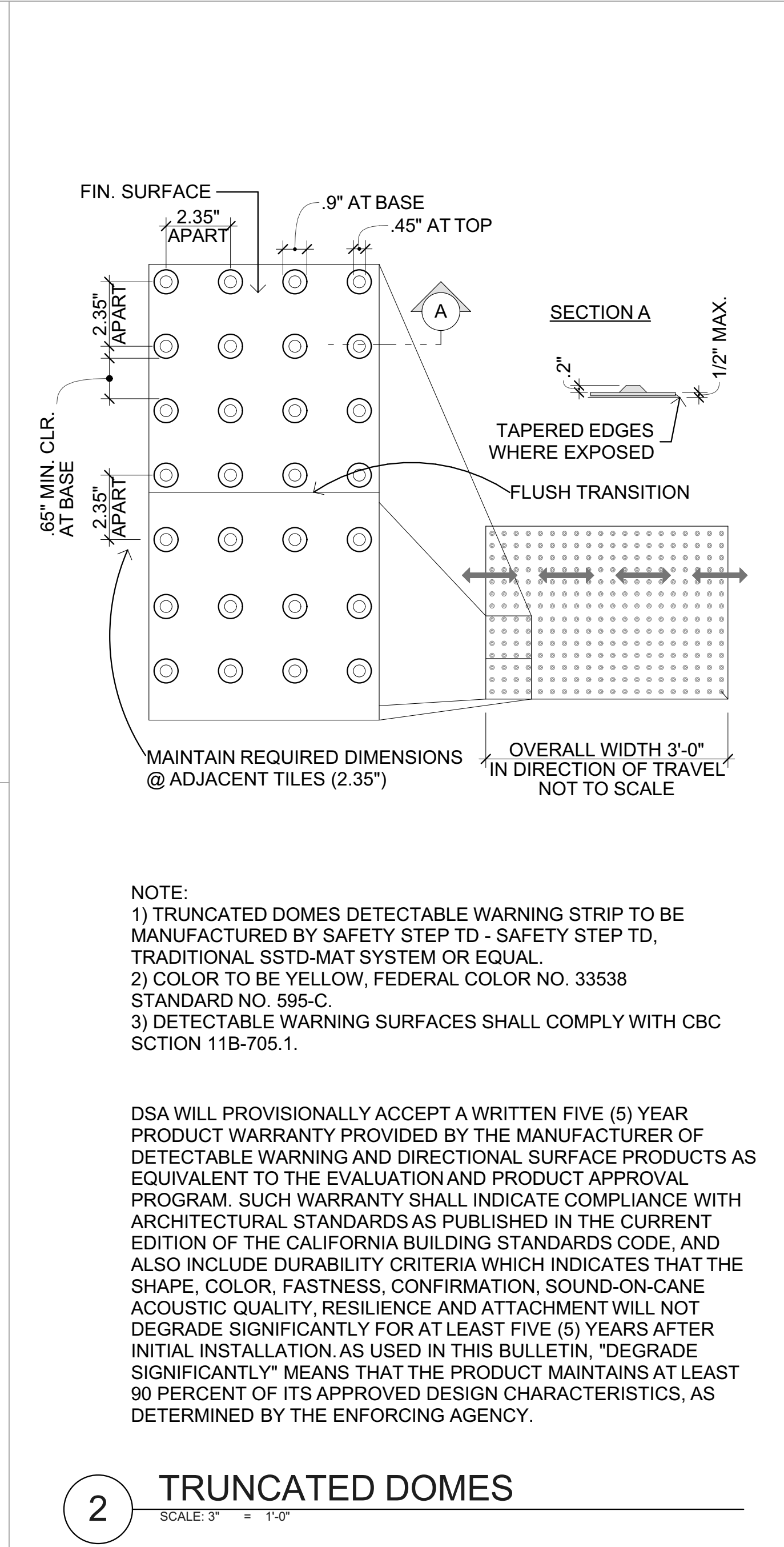
6 RAMP HANDRAIL SECTION



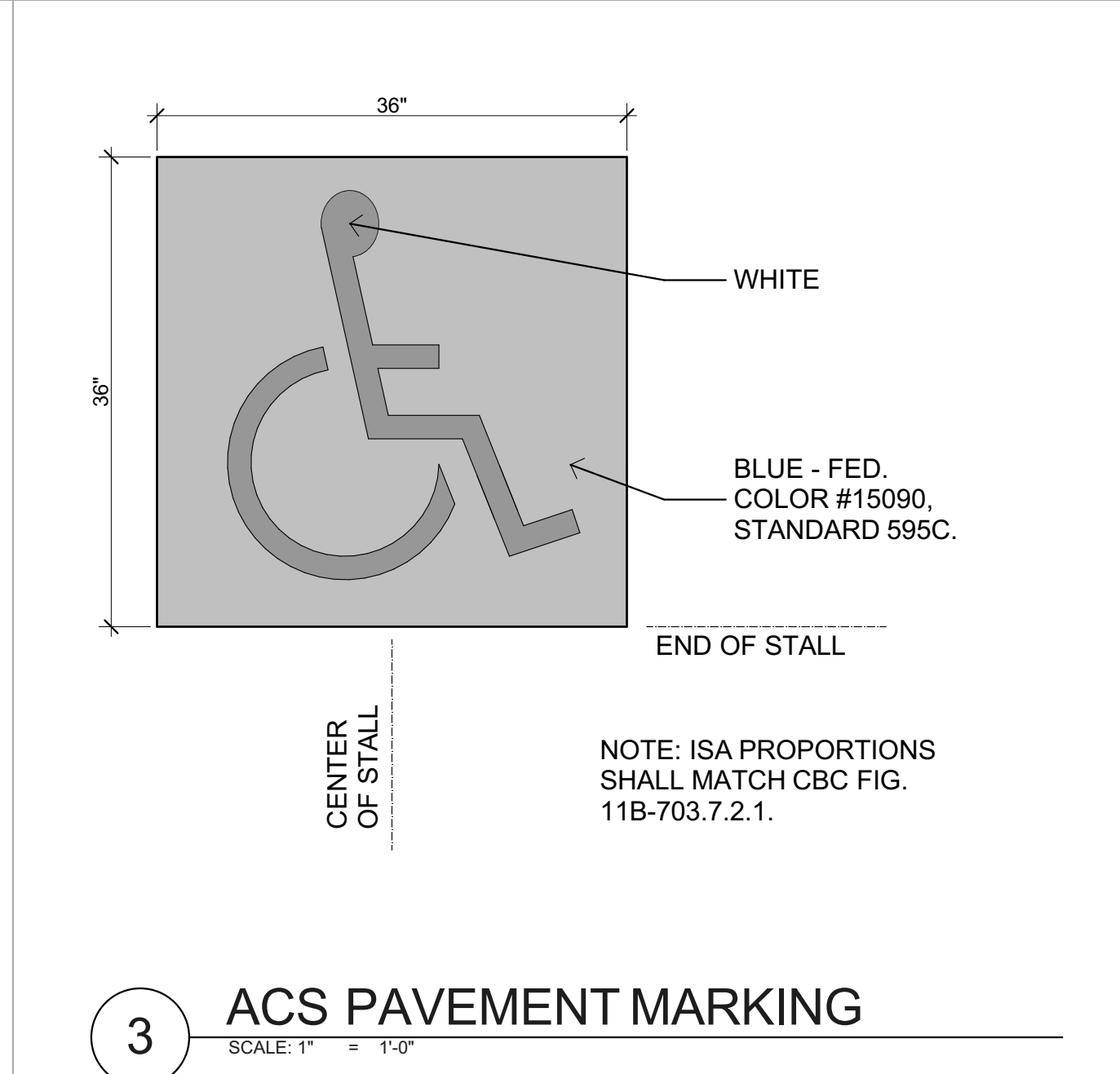
11 LANDING AT RELO



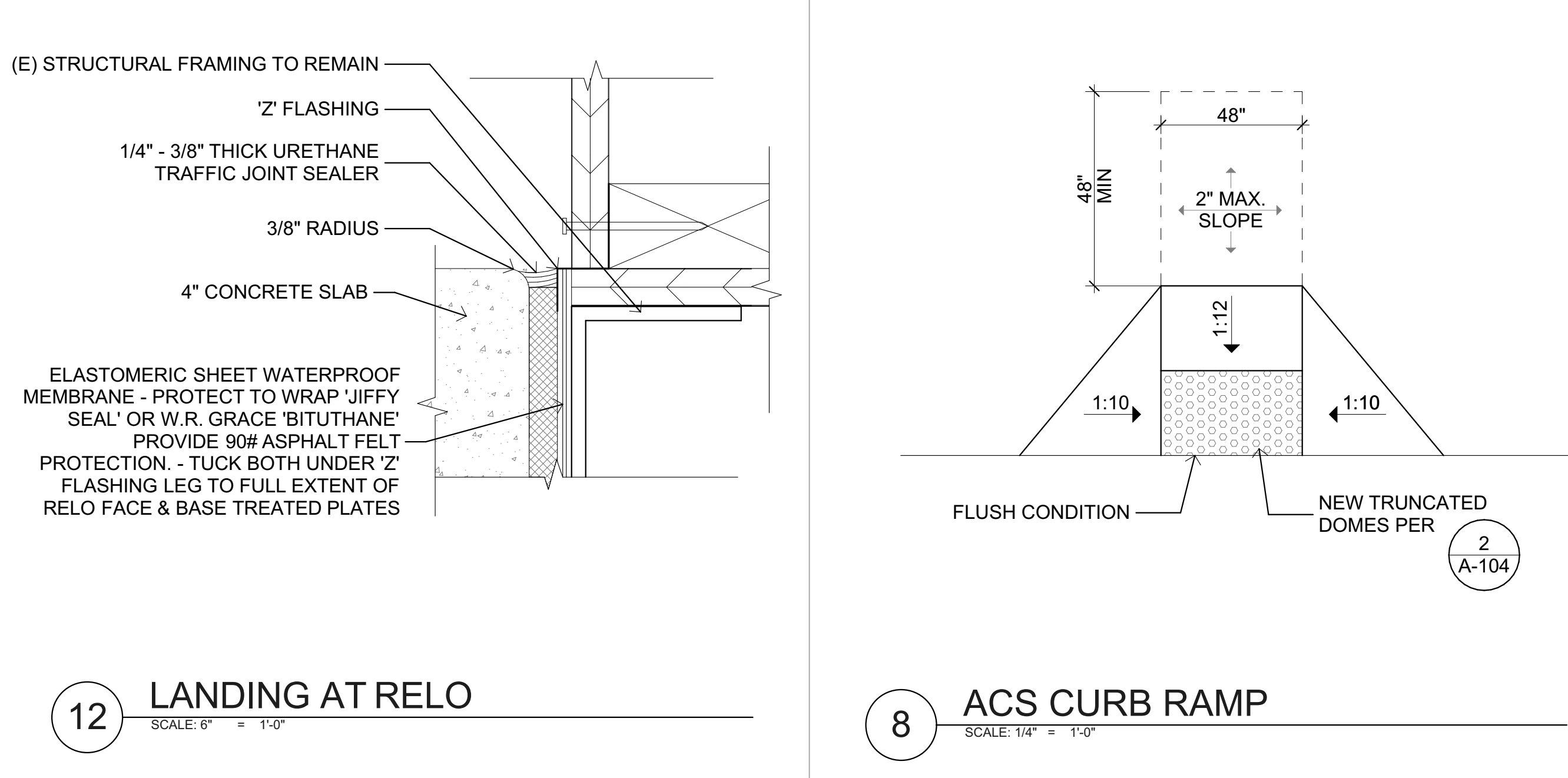
7 ACS CURB RAMP SECTION



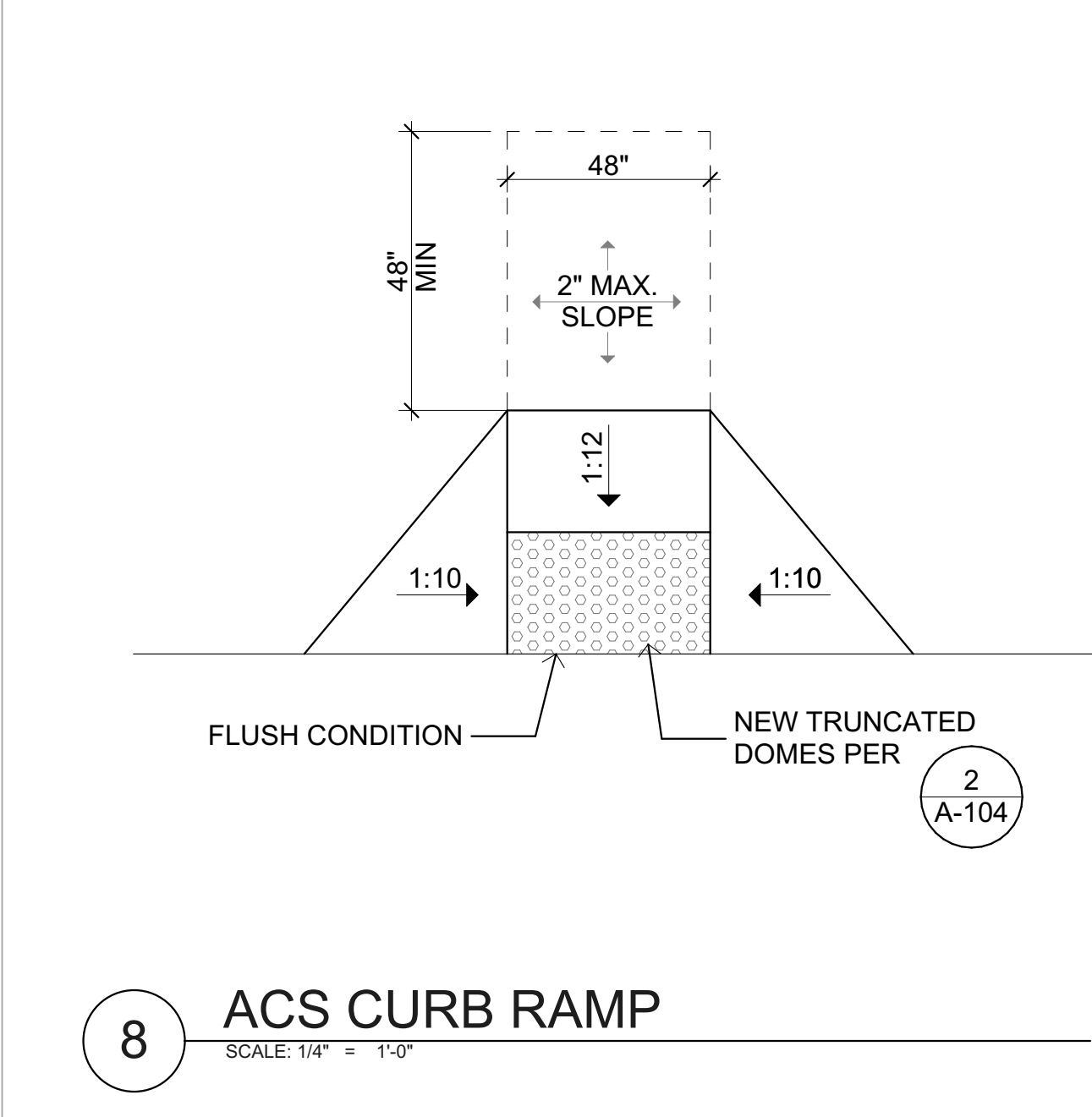
2 TRUNCATED DOMES



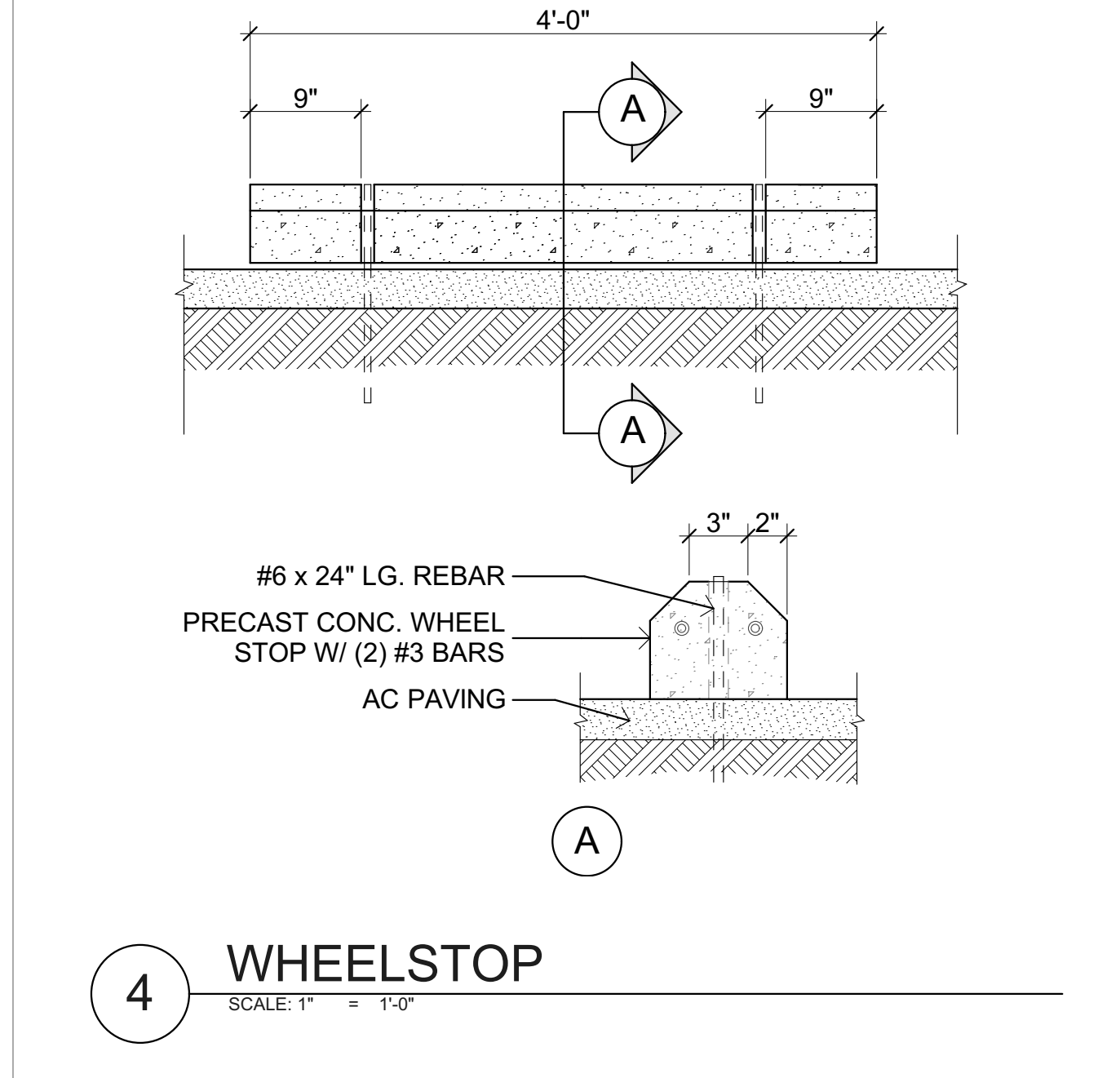
3 ACS PAVEMENT MARKING



12 LANDING AT RELO

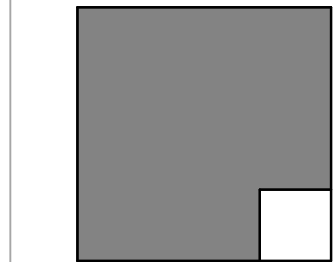


8 ACS CURB RAMP



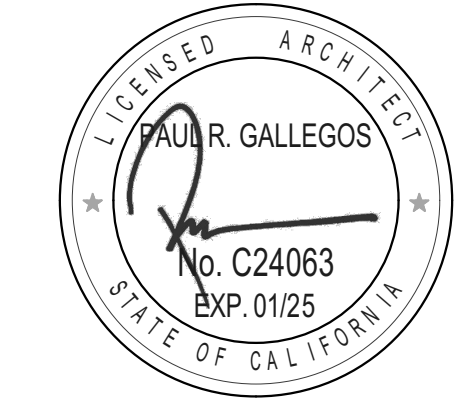
4 WHEELSTOP

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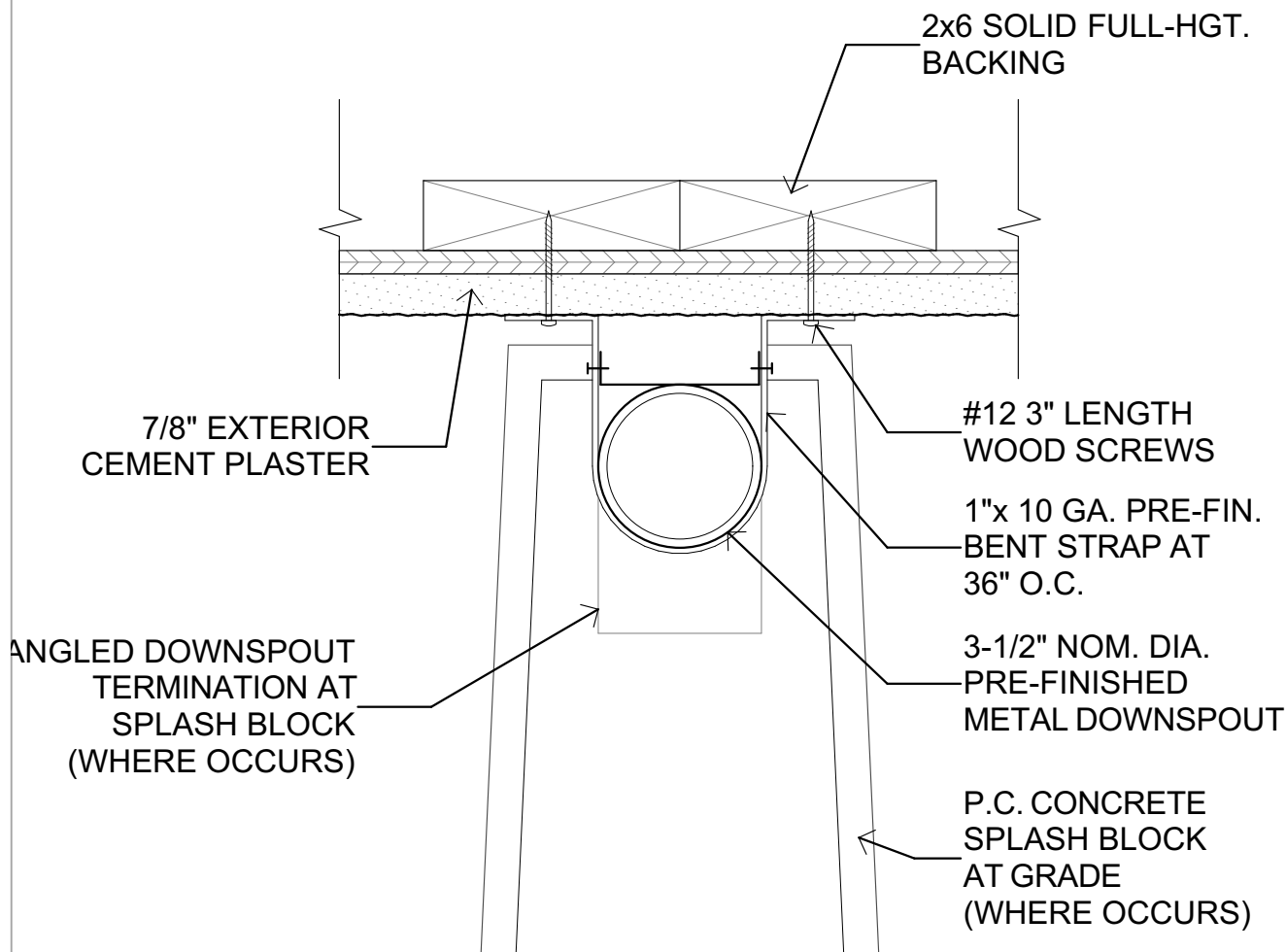
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PLOT DATE:
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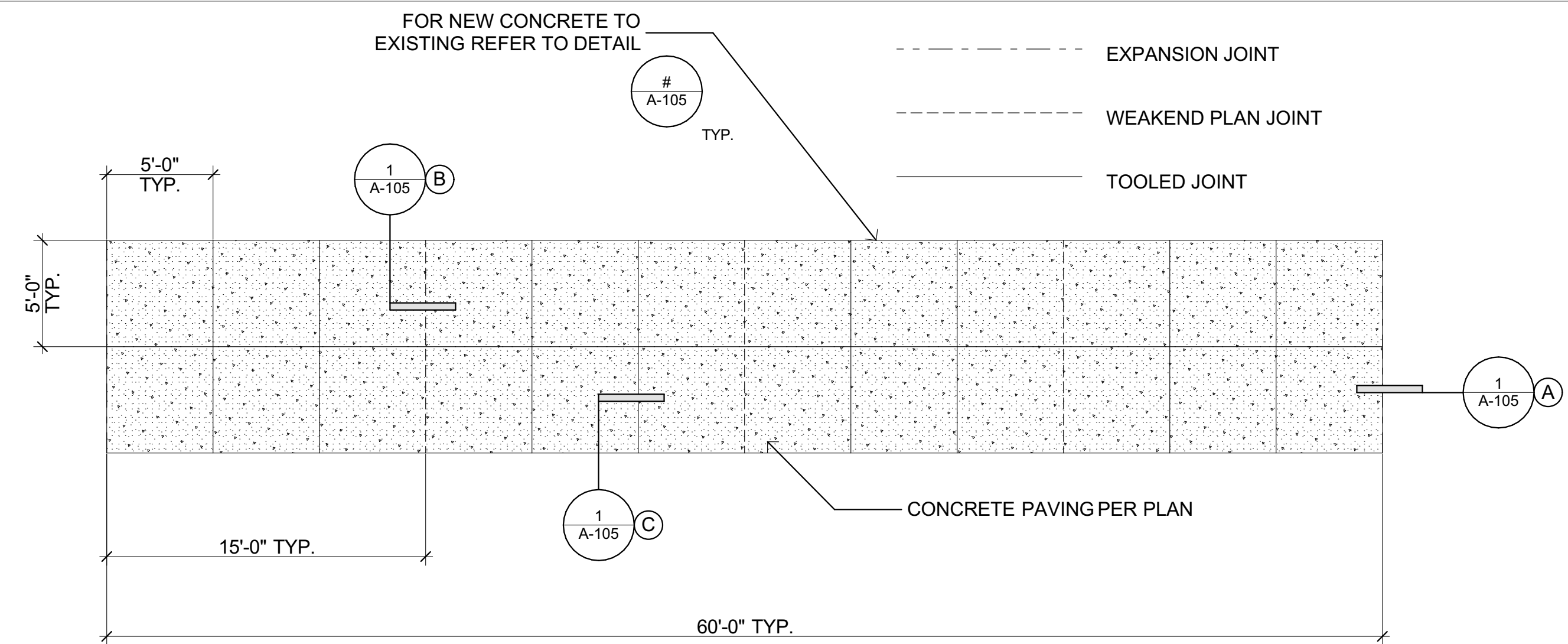
SHEET TITLE

SITE ADA DETAILS

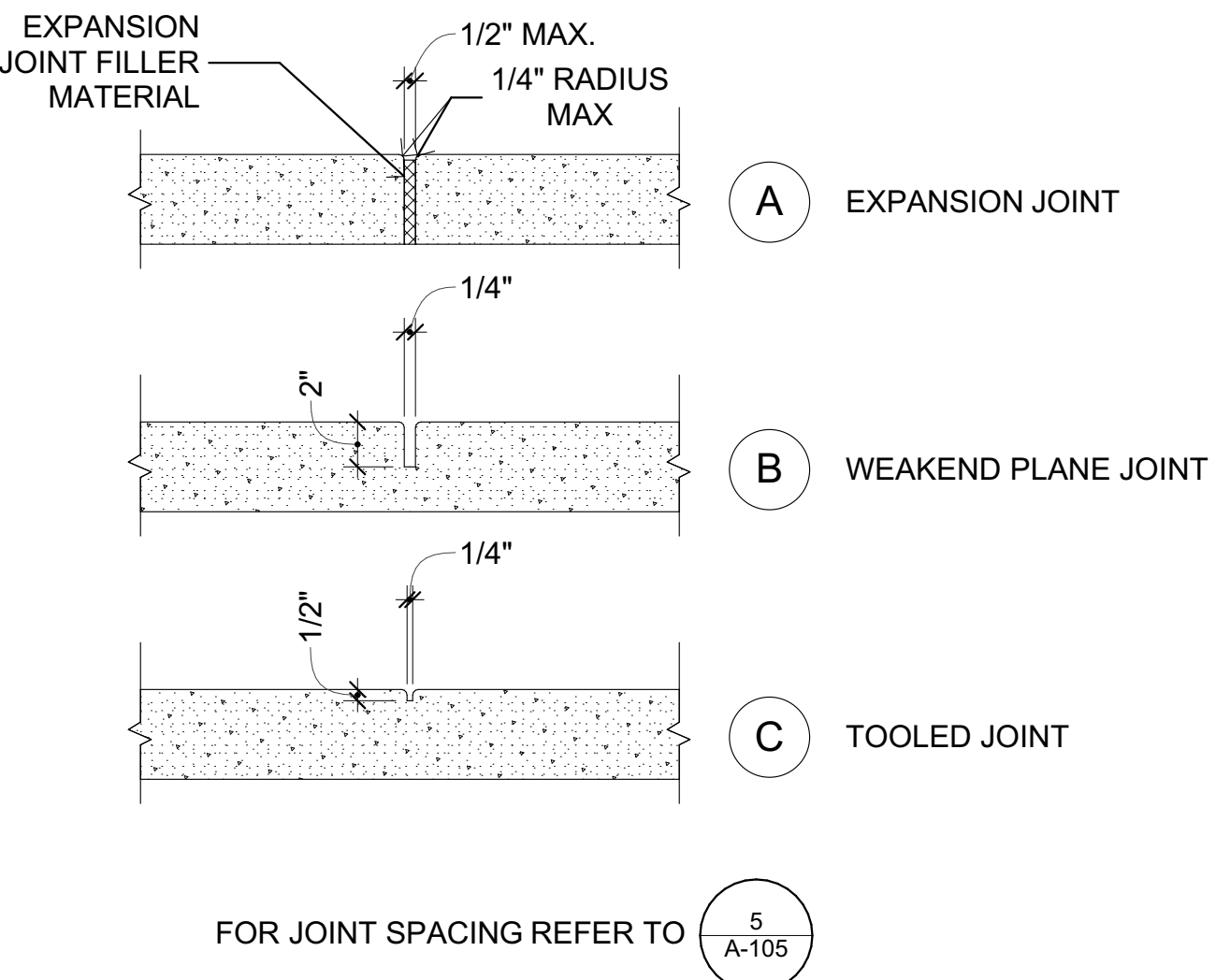
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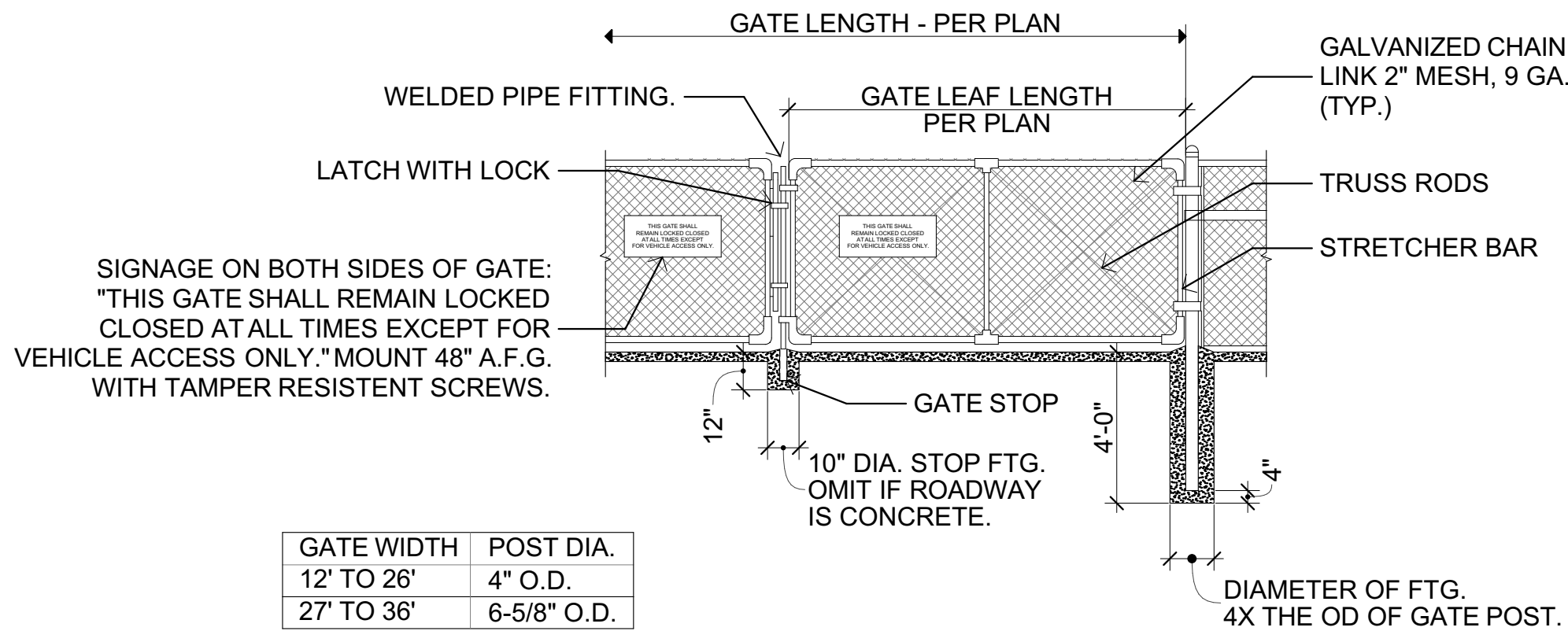
13 DOWNSPOUT
SCALE: 3/4" = 1'-0"



5 CONCRETE PAVING JOINTS PLAN
SCALE: 3/4" = 1'-0"

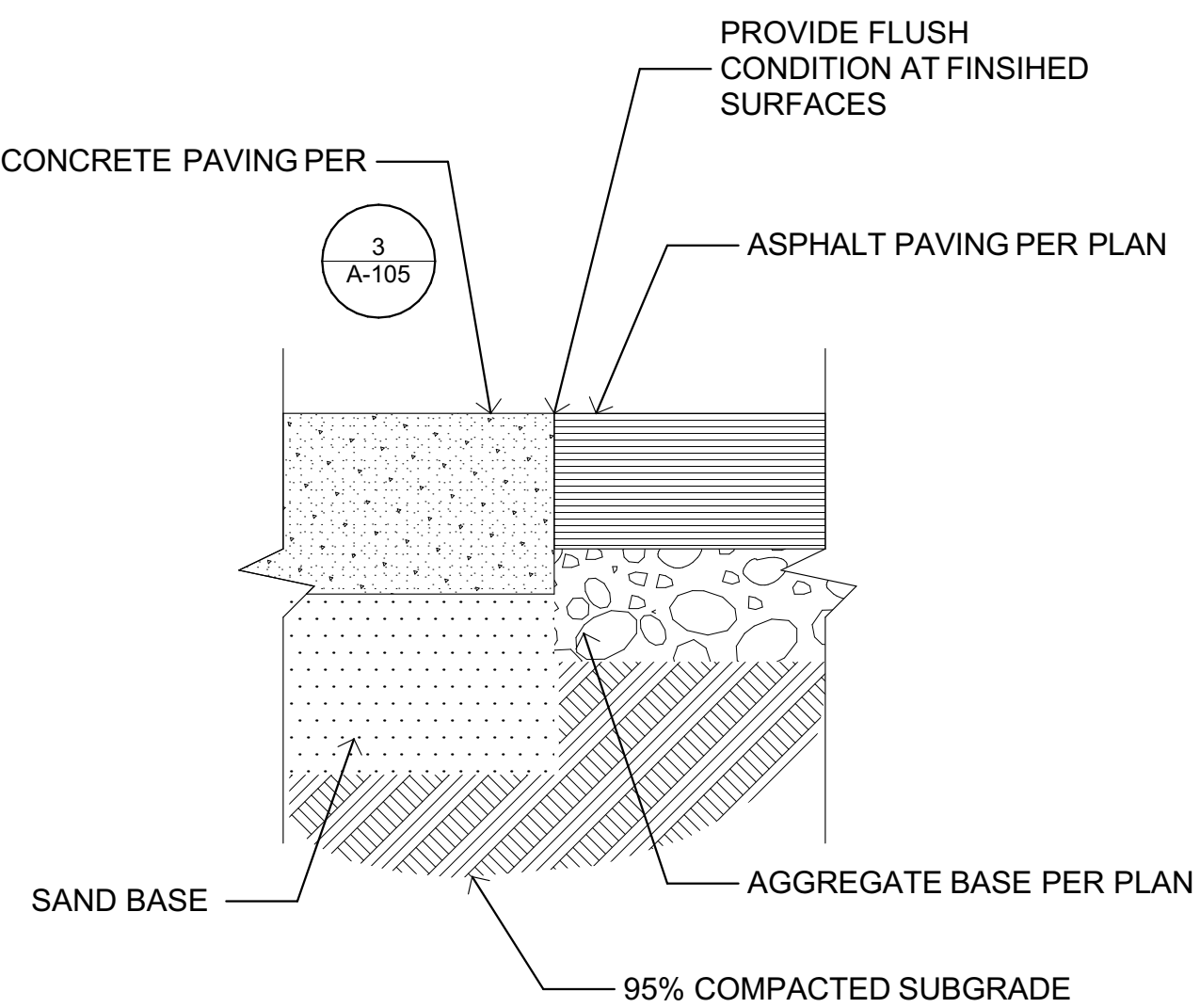


1 CONCRETE PAVING JOINTS
SCALE: 1 1/2" = 1'-0"

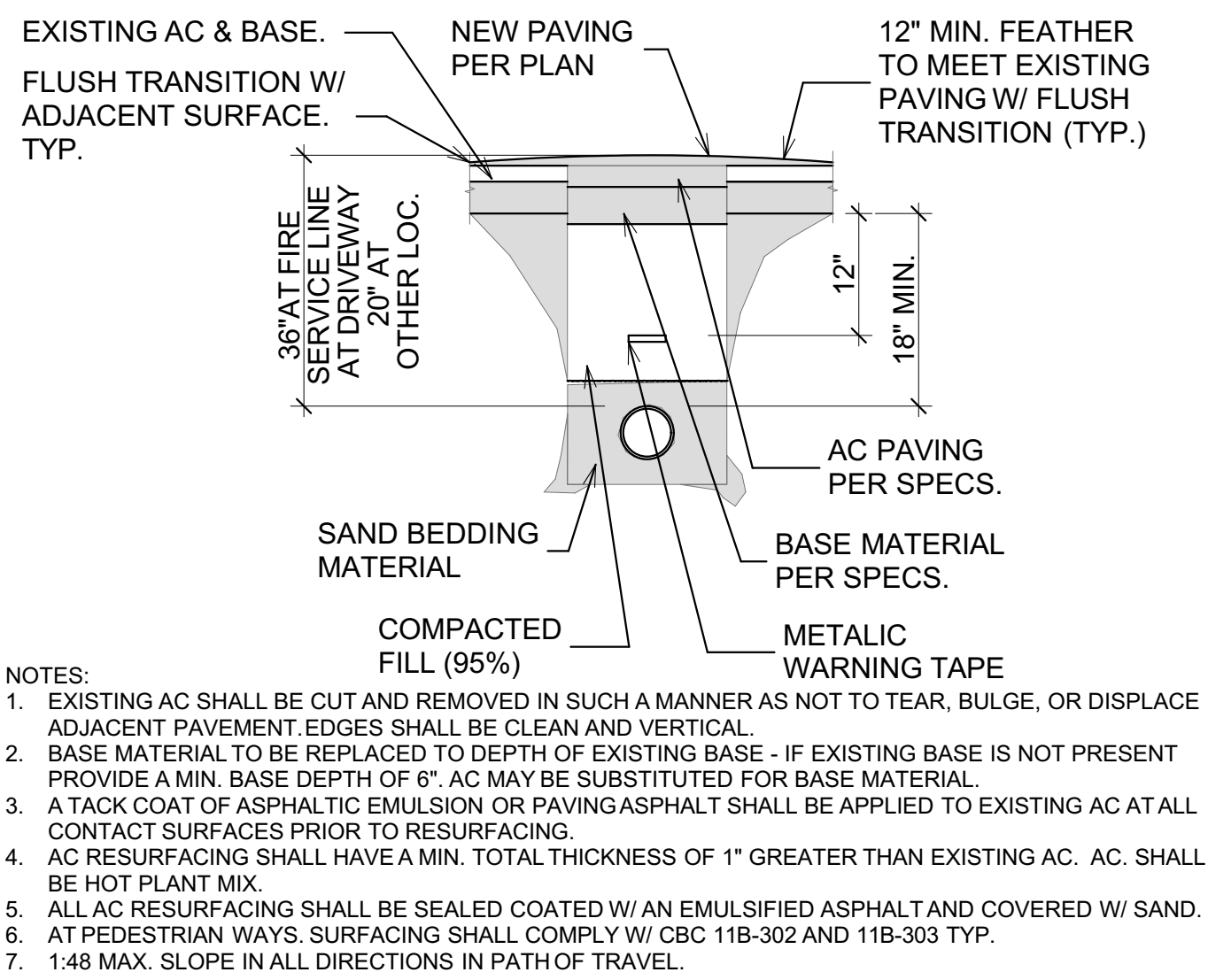


GATE WIDTH	POST DIA.
12' TO 26'	4" O.D.
27' TO 36'	6-5/8" O.D.

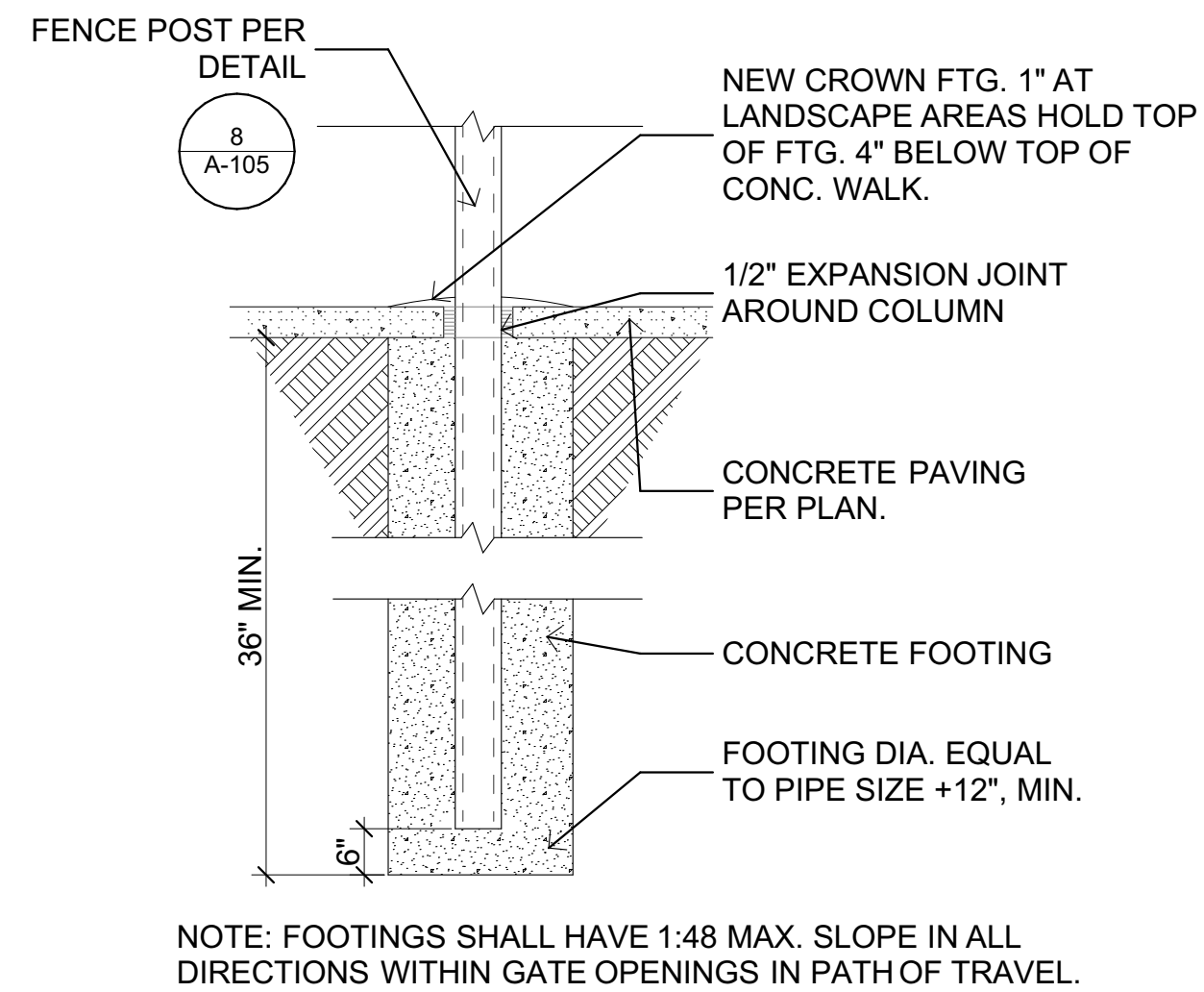
6 DBL. CHAIN LINK VEHICLE GATE
SCALE: 1/4" = 1'-0"



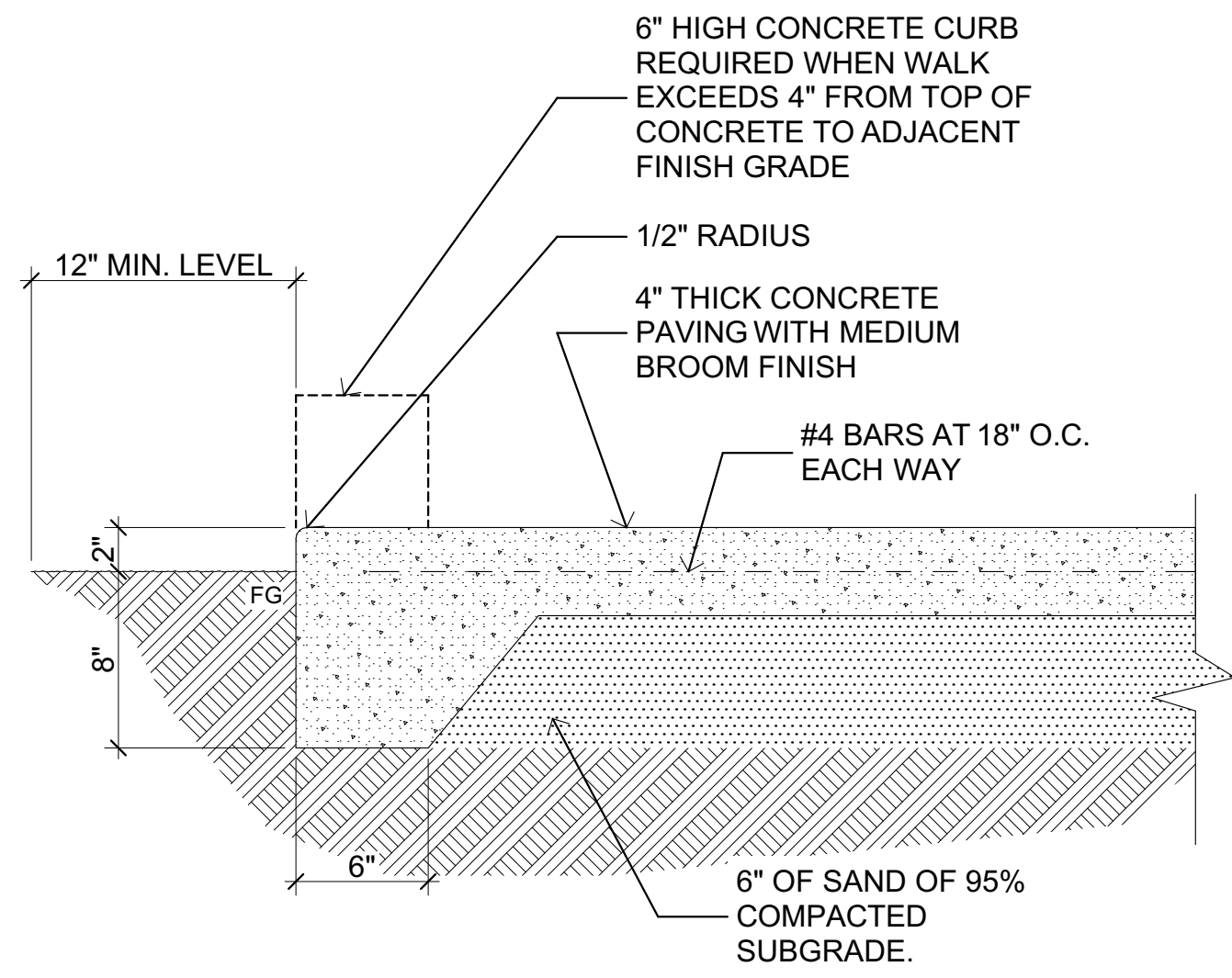
2 CONCRETE TO ASPHALT
SCALE: 3/4" = 1'-0"



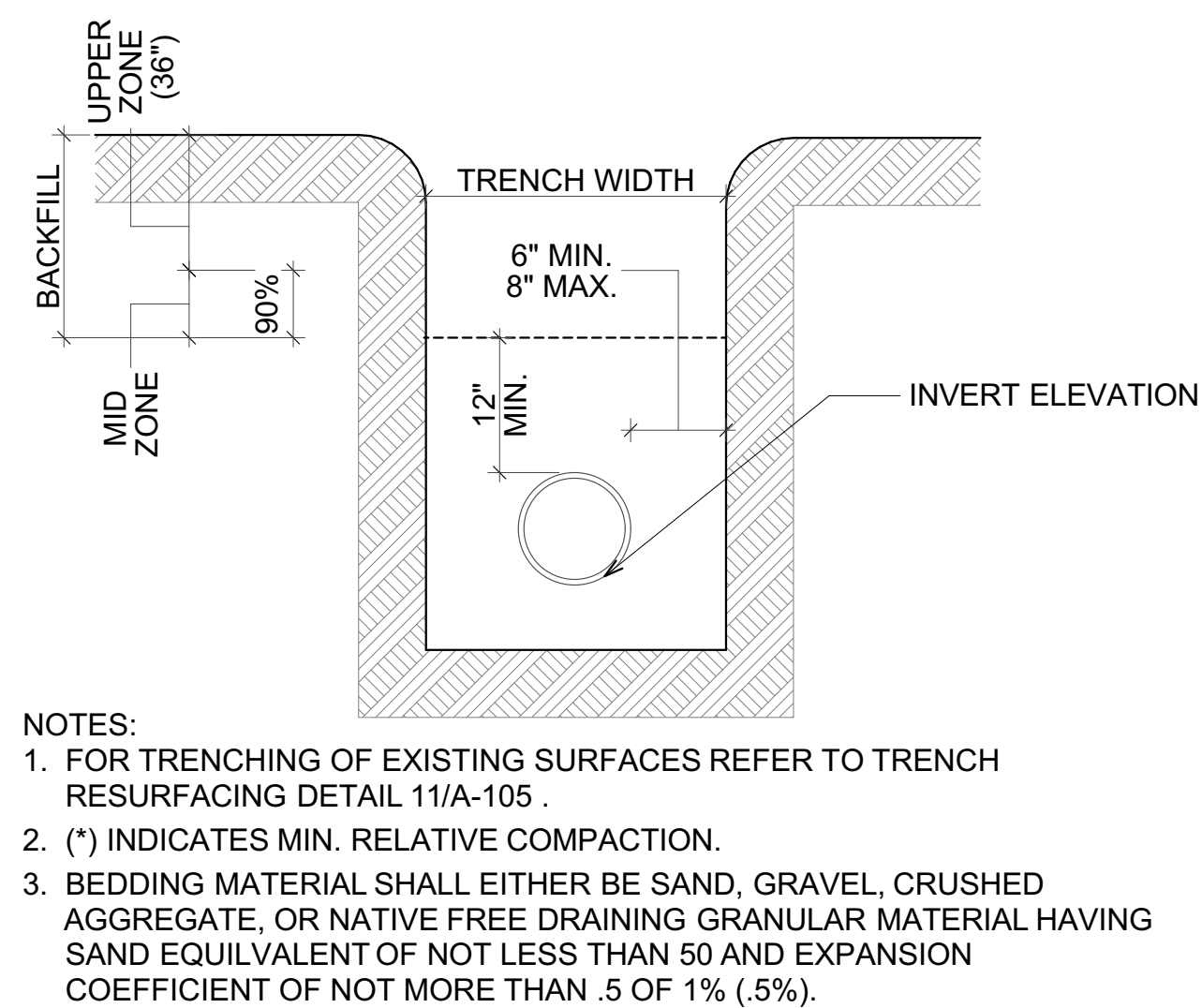
11 TRENCH RESURFACING
SCALE: 3/4" = 1'-0"



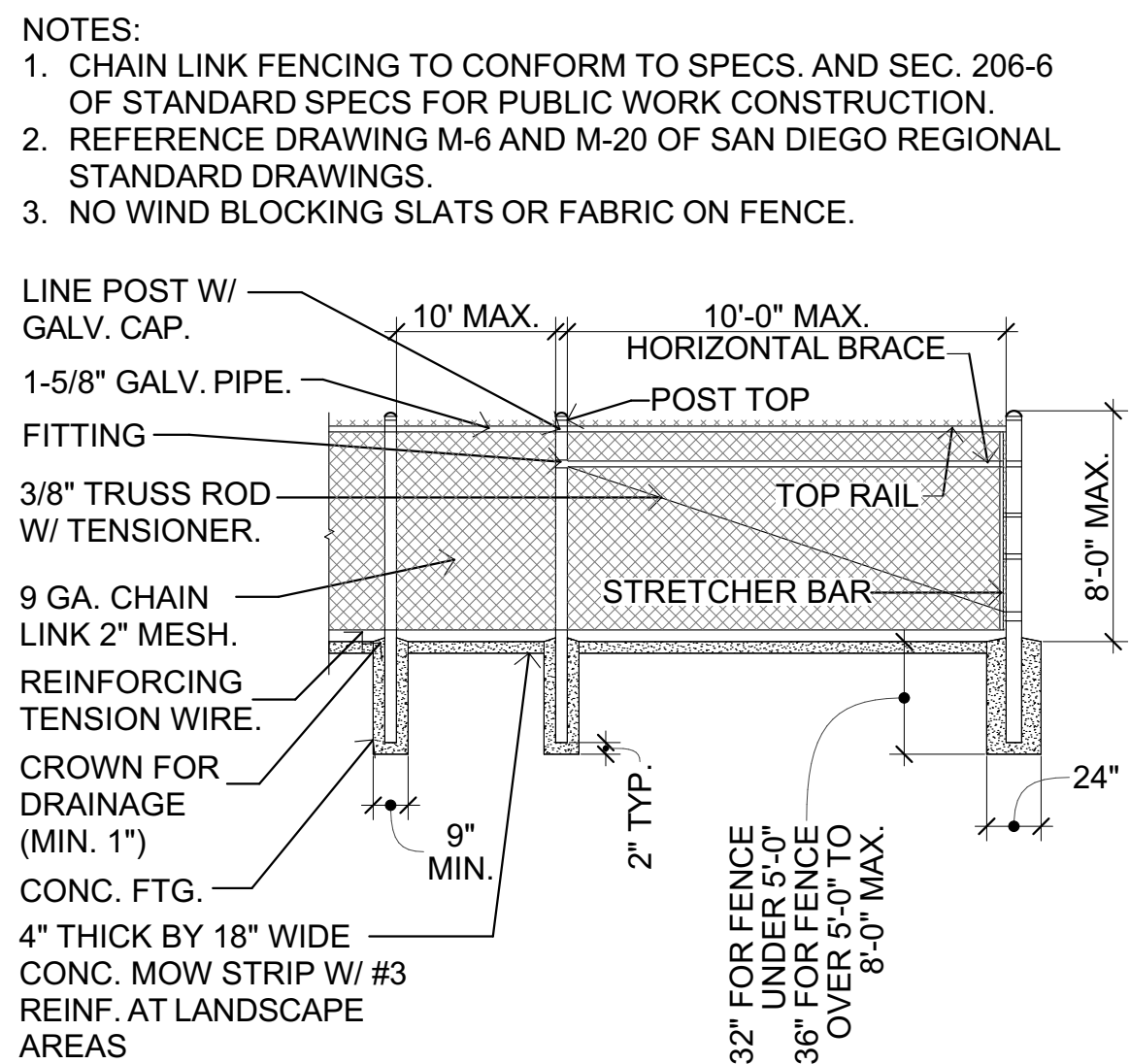
7 FENCING POST
SCALE: 1/2" = 1'-0"



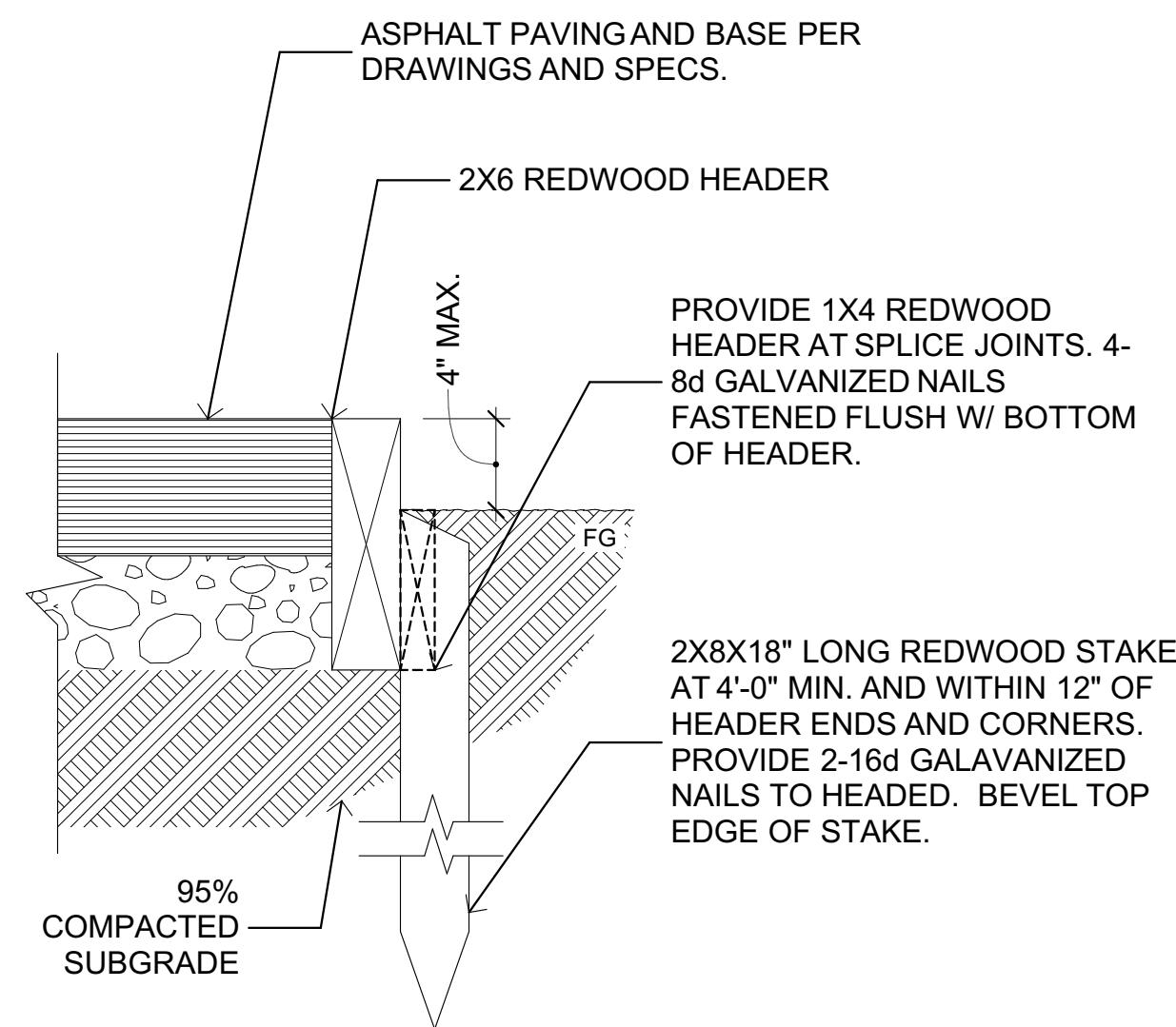
3 EDGE OF PAVING
SCALE: 1 1/2" = 1'-0"



12 PIPE TRENCH
SCALE: 3/4" = 1'-0"

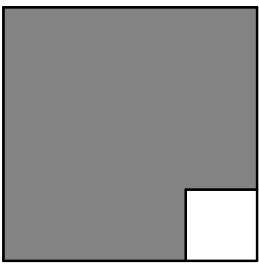


8 CHAIN LINK FENCING
SCALE: 1/4" = 1'-0"



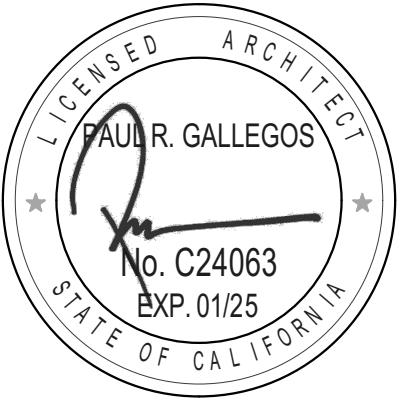
4 ASPHALT PAVING
SCALE: 3/4" = 1'-0"

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PROJECT NO: 23-003

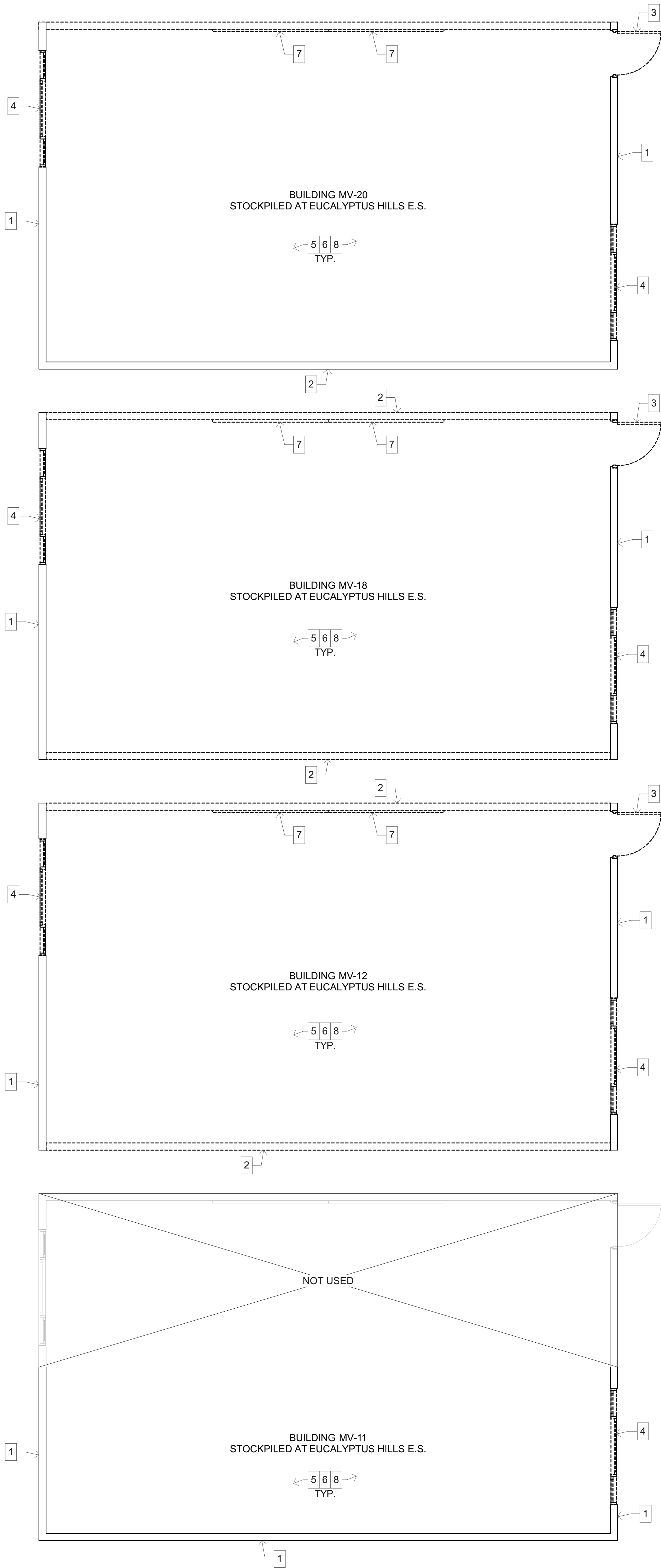
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PLOT DATE:
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SHEET TITLE

SITE DETAILS

A-105

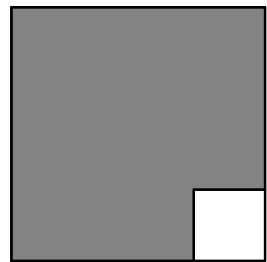


1 DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTES

1. EXISTING WALL TO REMAIN. DEMO AND REMOVE EXISTING FINISHES.
2. DEMO AND REMOVE EXISTING WALL.
3. DEMO AND REMOVE EXISTING DOOR.
4. DEMO AND REMOVE EXISTING WINDOW.
5. DEMO AND REMOVE EXISTING FLOORING.
6. DEMO AND REMOVE EXISTING CEILING TILES AND T-BAR GRID.
7. DEMO AND REMOVE EXISTING MARKERBOARD.
8. DEMO AND REMOVE EXISTING STANDING SEAM METAL ROOFING FOR REPLACEMENT PER ROOF PLAN.

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GENERAL NOTES

1. WHERE DEMOLITION PLANS REFERENCE SPECIFIC ITEMS FOR REMOVAL, SIMILAR ITEMS MAY OCCUR AND SHALL BE REMOVED ACCORDING TO THE REQUIREMENTS AND DESIGN INTENT OF THE NEW CONSTRUCTION.
2. AFTER DEMOLITION AND REMOVAL OF ELEMENTS, REPAIR AND RESTORE EXISTING FINISHES AND SUBSTRATES TO REMAIN TO THEIR ORIGINAL CONDITION.
3. WHERE EQUIPMENT AND/OR FIXTURES ARE INDICATED TO BE REMOVED, ALL RELATED PIPING, CONDUITS, WIRING, ETC. SHALL ALSO BE REMOVED AND/OR PROPERLY TERMINATED IN CONCEALED AREAS. REPAIR AND/OR REPLACE ALL EXISTING DAMAGED T-BAR CEILING GRID MEMBERS AND THOSE MEMBERS DAMAGED BY THE WORK OF THIS CONTRACT.
5. REMOVE ALL EXISTING SURFACE MOUNTED FIXTURES, APPURTENANCES, RACEWAYS, ETC. FROM INTERIOR WALL SURFACES AS REQUIRED FOR NEW WORK.
6. REMOVE ALL UNUSED MECHANICAL EQUIPMENT AND PATCH SEAL ALL WALL PENETRATIONS.
7. REMOVE ALL UNUSED SURFACE MOUNTED CONDUITS, SLEEVES, ETC. FROM EXTERIOR OF BUILDINGS AND PATCH SEAL ALL PENETRATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ITEMS/ EQUIPMENT TO BE REUSED AND/OR DEMOLITION REQUIREMENTS.

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PLOT DATE:

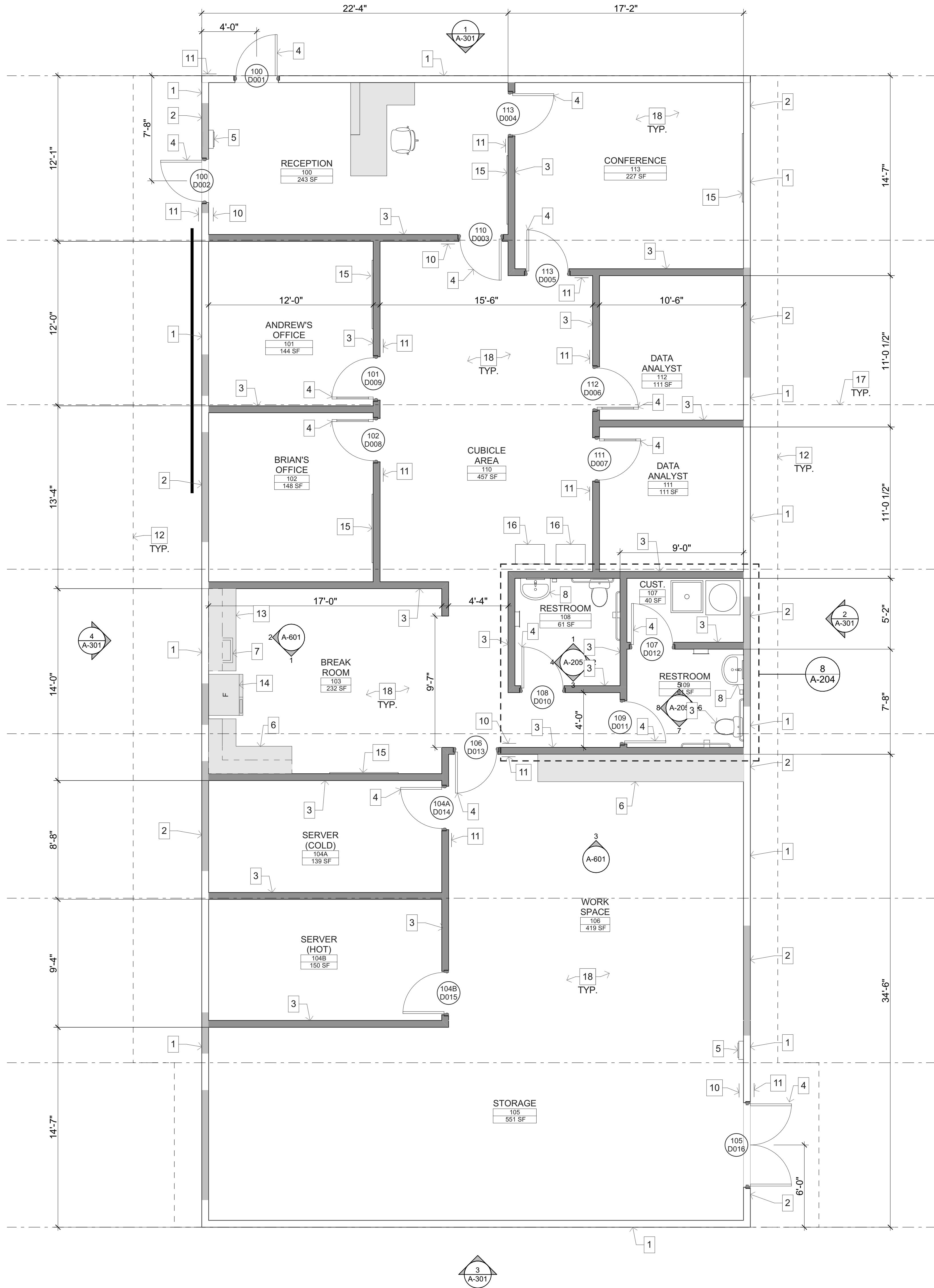
12/21/2023

SHEET TITLE

DEMOLITION FLOOR
PLAN

A-201

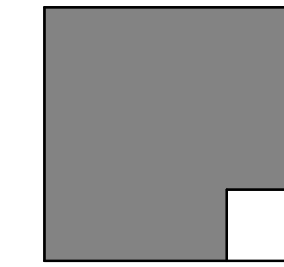
1 NEW WORK FLOOR PLAN
SCALE: 1/4" = 1'-0"



NOTES

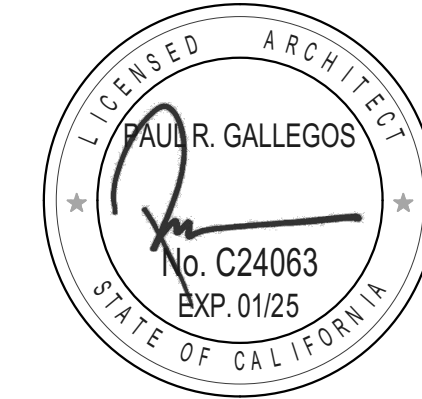
1. EXISTING WALL TO REMAIN. REFER TO WALL LEGEND.
2. INFILL OPENING IN EXISTING WALL PER DETAILS 4 & 7/A-203.
3. NEW WALL PER DETAIL WALL LEGEND.
4. NEW DOOR PER DOOR SCHEDULE SHEET 1/A-901.
5. NEW FIRE EXTINGUISHER RATED 2A-10B-C IN RECESSED CABINET. SEE DETAIL 3/A-203. LOCATED WITHIN 4' OF ADJACENT EXIT DOOR.
6. NEW PLASTIC LAMINATE CASEWORK - REFER TO INTERIOR ELEVATIONS.
7. NEW ACCESSIBLE SINK CABINET - REFER TO DETAIL 5/A-602 AND PLUMBING DRAWINGS.
8. NEW ACCESSIBLE LAVATORY- REFER TO ENLARGED RESTROOM PLANS ON SHEET A-204.
9. NEW METAL DOWNSPOUTS.
10. NEW EXIT / EXIT ROUTE SIGNAGE PER DETAIL 8/A-903.
11. NEW ROOM / DOOR SIGNAGE PER DETAIL 4/A-903.
12. LINE OF ROOF / SOFFIT ABOVE.
13. NEW COUNTERTOP PER DETAIL 2/A-602.
14. NEW OWNER FURNISHED CONTRACTOR INSTALLED REFRIGERATOR.
15. NEW FLAT PANEL.
16. NEW OWNER FURNISHED CONTRACTOR INSTALLED PRINTER/COPIER.
17. RELOCATABLE BUILDING MODLINE.
18. NEW FLOORING PER FINISH SCHEDULE.

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GENERAL NOTES

1. REMOVE AND REPLACE EXISTING BATT INSULATION AS FOLLOWS:
R-11 AT EXTERIOR WALLS
R-19 AT FLOOR AND ROOF

WALL LEGEND

- EXISTING 2X4 STUD WALL TO REMAIN. NEW INTERIOR AND EXTERIOR FINISHES AS NOTED ON EXT. ELEVATIONS AND FINISH SCHEDULE. REFER TO DETAIL 6/A-203.
- INFILL OPENING IN EXISTING WALL PER DETAILS 4 & 7/A-203.
- NEW INTERIOR FULL HEIGHT NON-RATED PARTITION: 2X6 WOOD STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYP. BOARD EACH SIDE. (WATER-RESISTANT AT TOILET ROOMS.) WALL FINISH AS SCHEDULED. REFER TO DETAILS 2, 12, & 16 / A-203.

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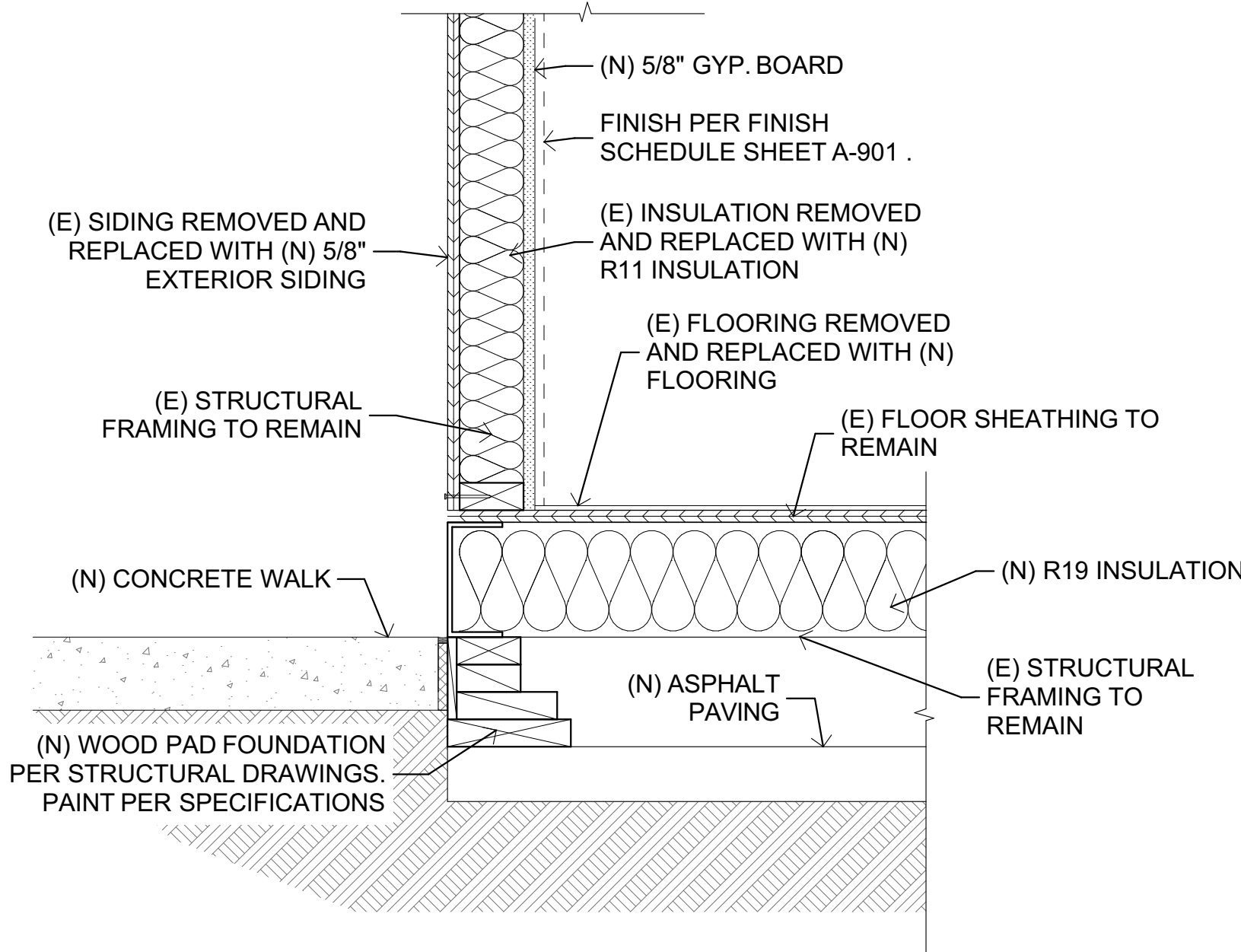
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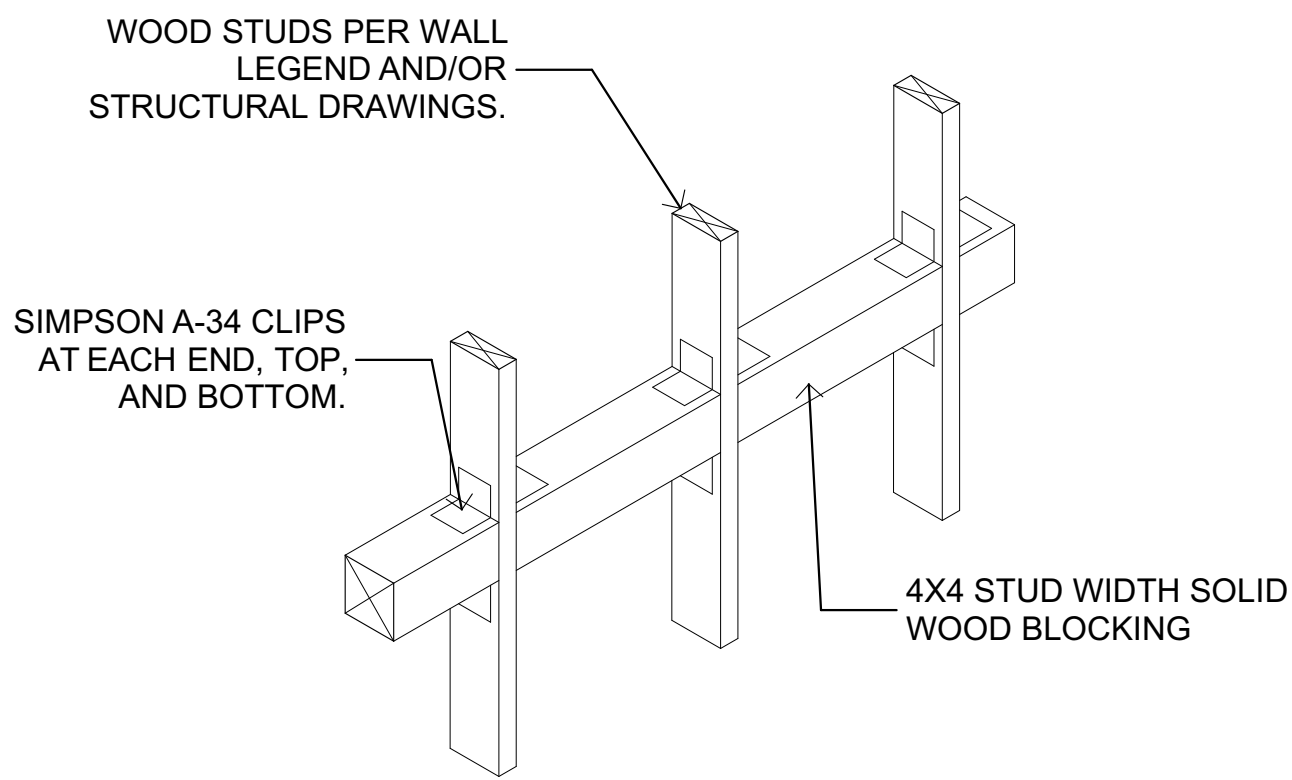
SHEET TITLE

NEW WORK FLOOR
PLAN

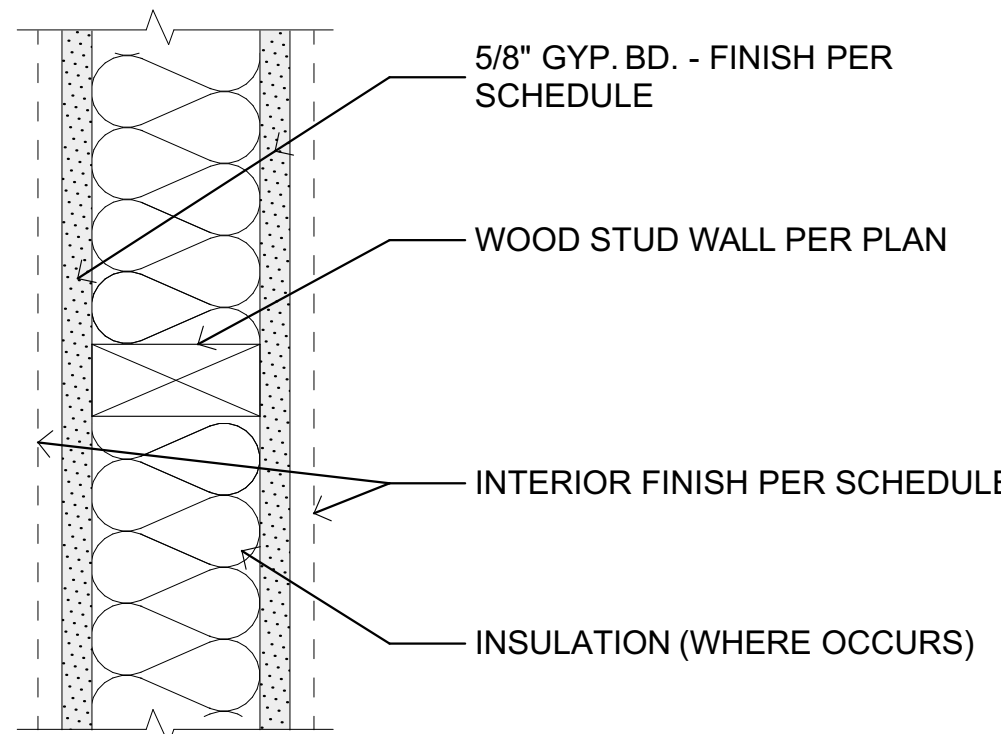
A-202



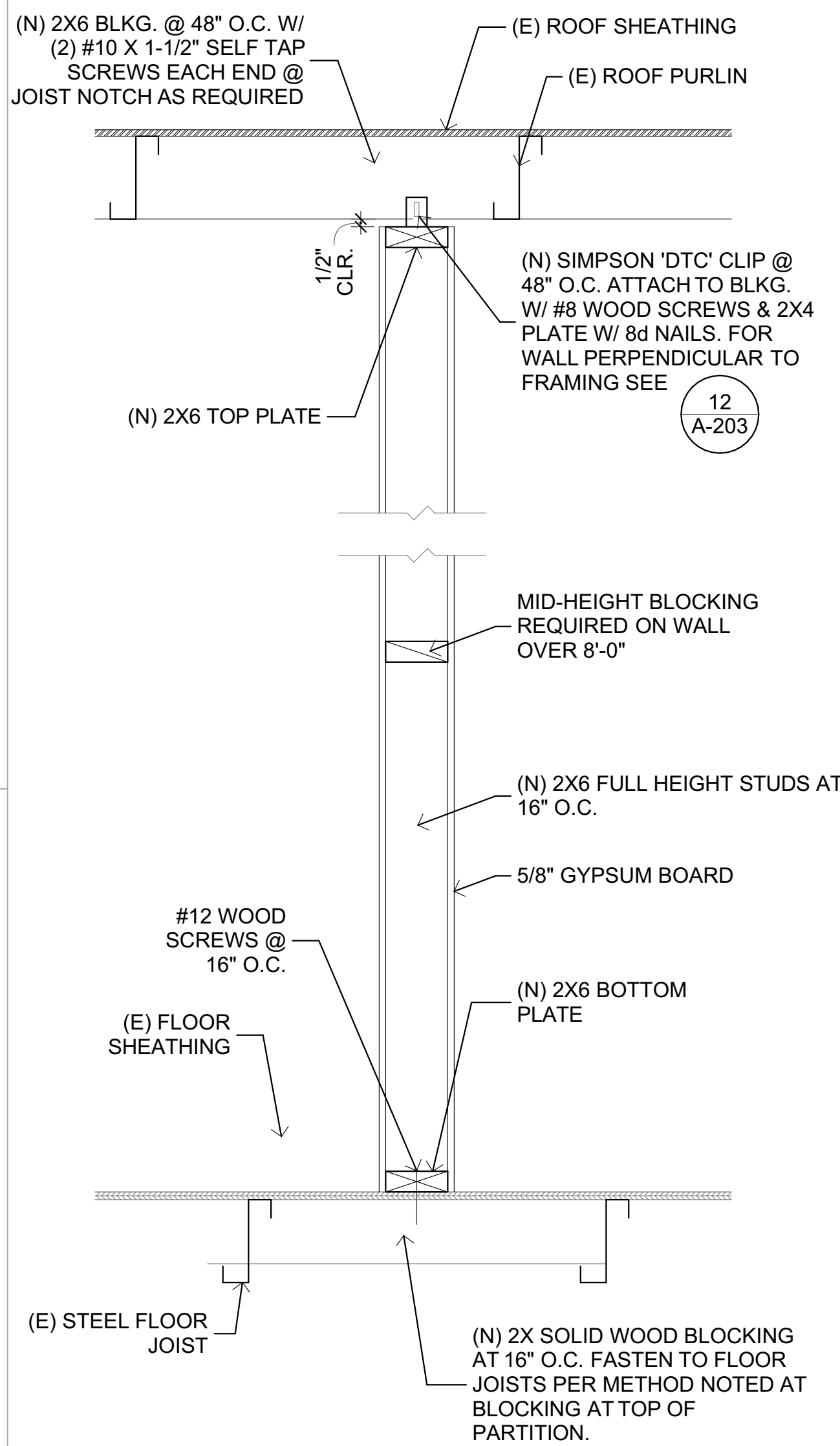
6 WALL SECTION AT BASE
SCALE: 1 1/2" = 1'-0"



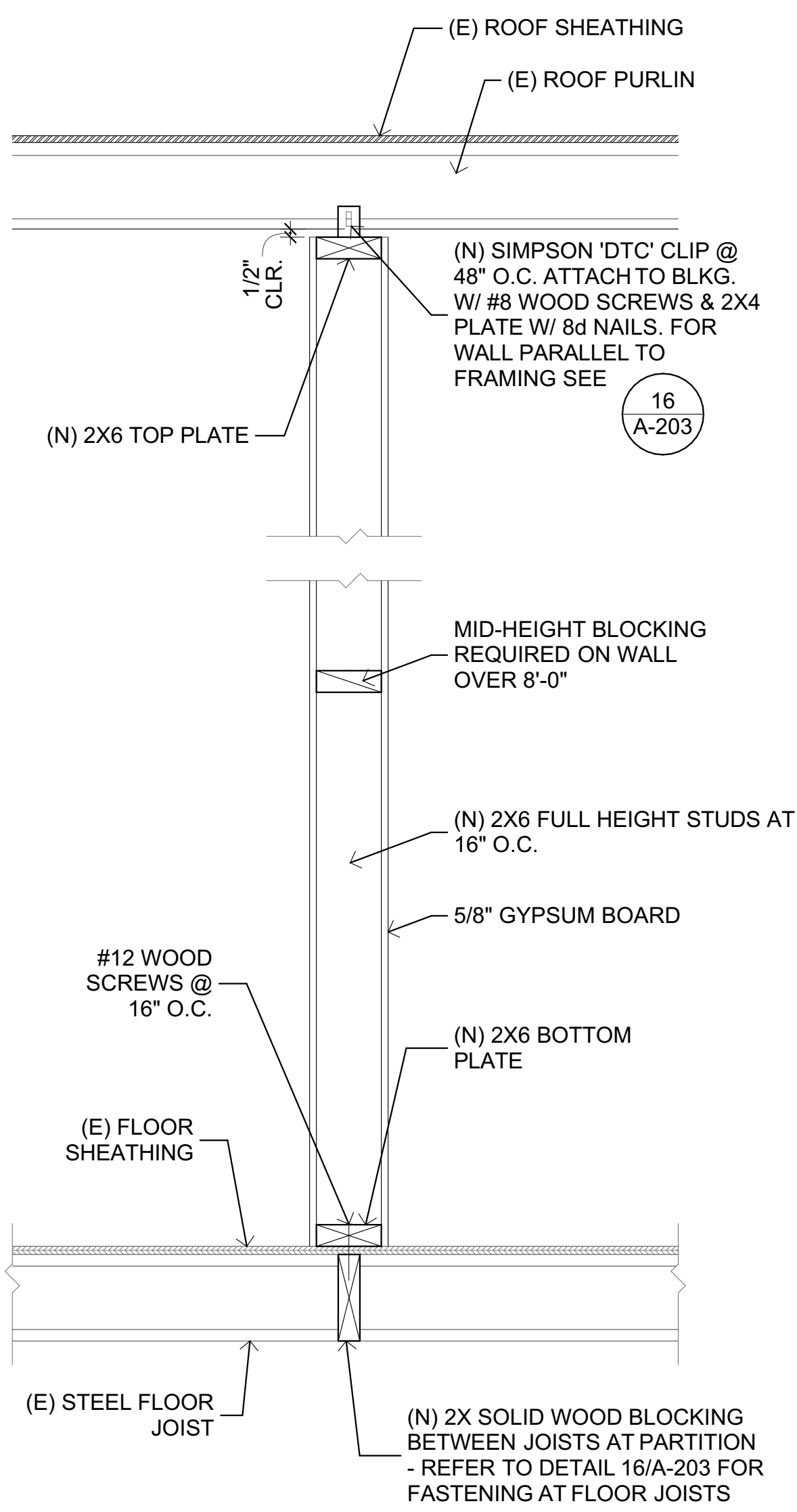
1 TYPICAL WOOD BLOCKING
SCALE: 1" = 1'-0"



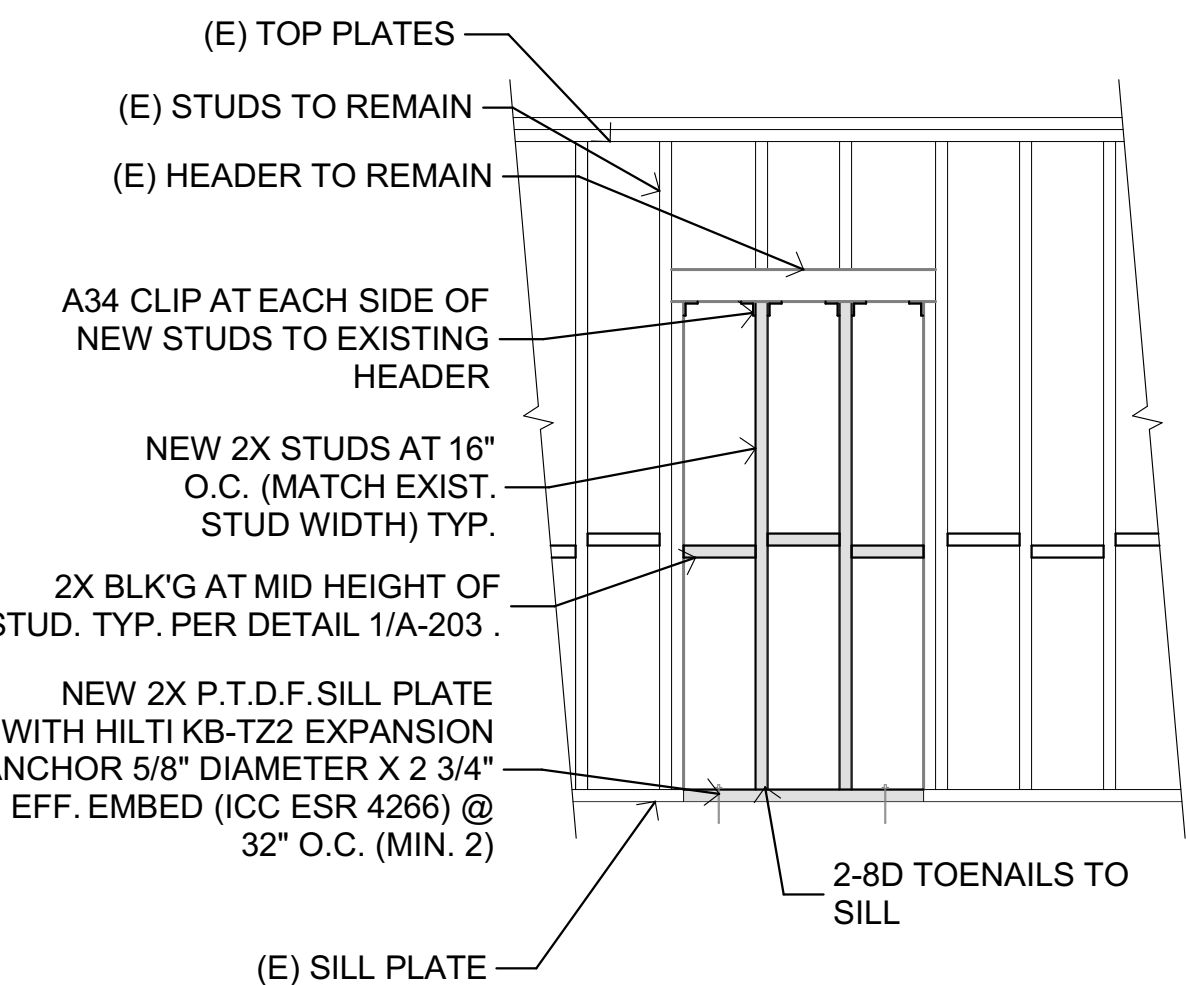
2 INT. NON-BEARING WOOD WALL
SCALE: 3" = 1'-0"



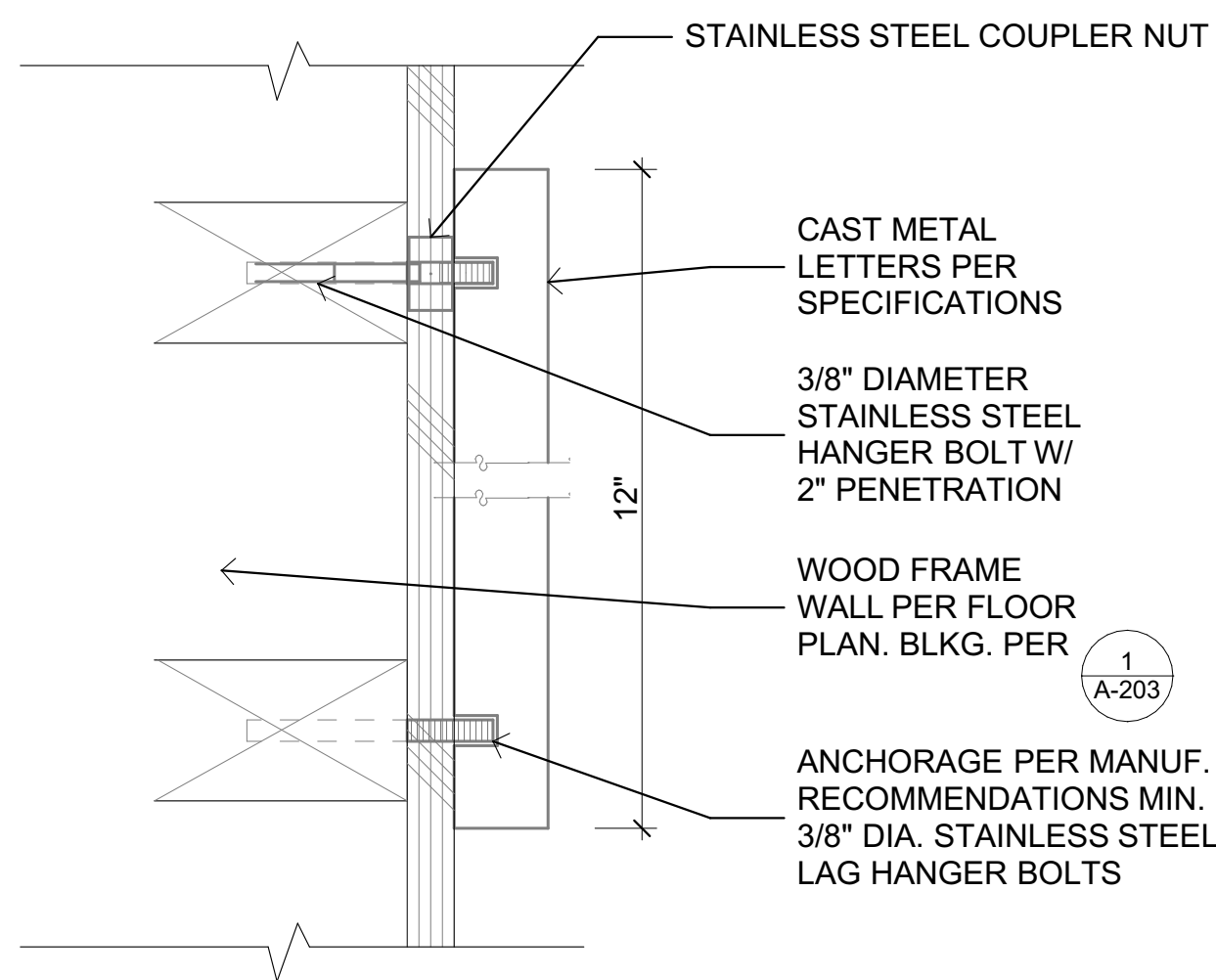
16 INTERIOR WALL ATTACHMENT
SCALE: 1" = 1'-0"



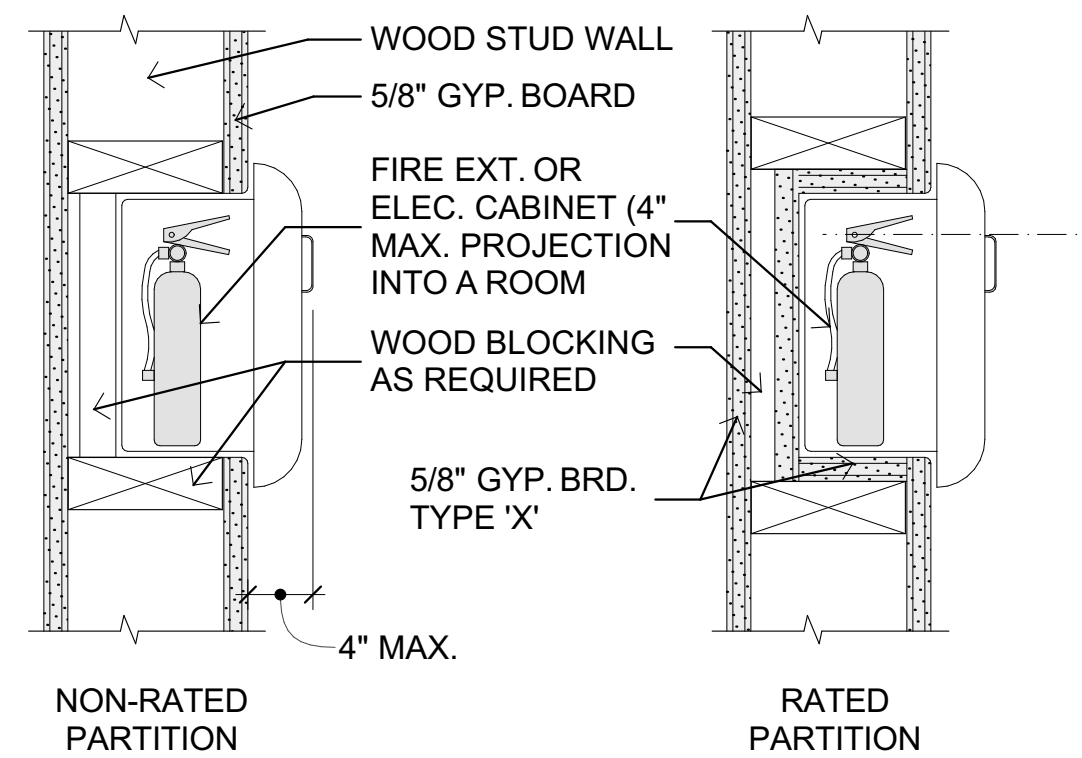
12 INTERIOR WALL ATTACHMENT
SCALE: 1" = 1'-0"
(PERPENDICULAR TO ROOF PURLINS)



7 WALL INFILL AT DOOR
SCALE: 1/2" = 1'-0"

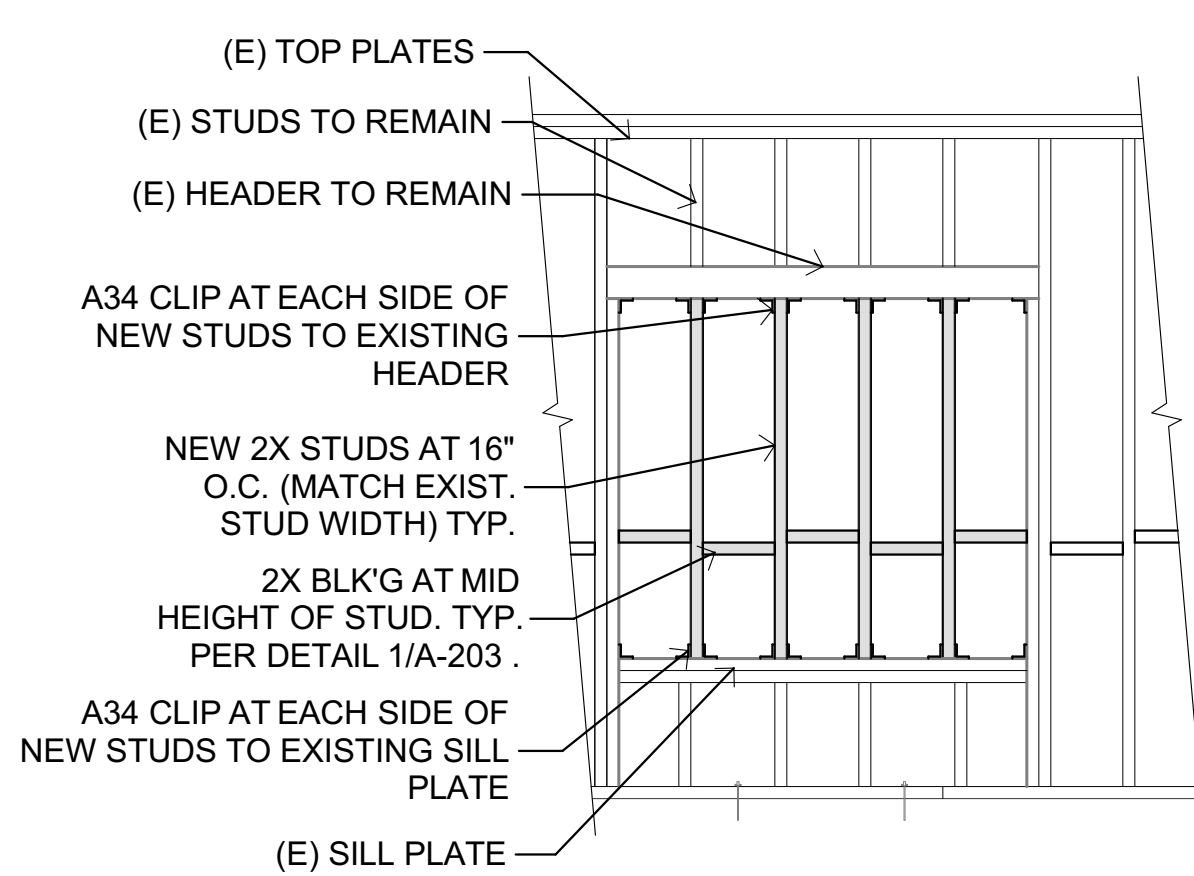


8 WALL MOUNTED LETTERS
SCALE: 6" = 1'-0"



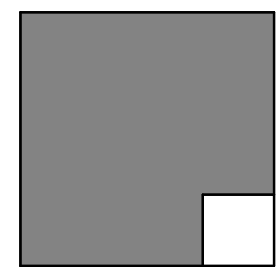
- NOTES:
- AT 1-HR FIRE WALLS, LINE ALL SIDES AND BACK OF OPENING WITH 5/8" TYPE 'X' GYP. BOARD TYP.
 - INSTALLER TO CAULK AROUND THE PERIMETER OF THE CABINET AS REQUIRED.

3 FIRE EXTINGUISHER CABINET
SCALE: 3" = 1'-0"



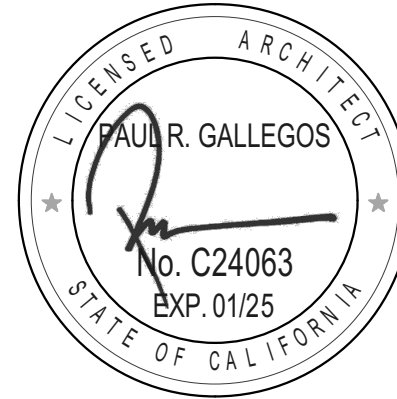
4 WALL INFILL AT WINDOW
SCALE: 1/2" = 1'-0"

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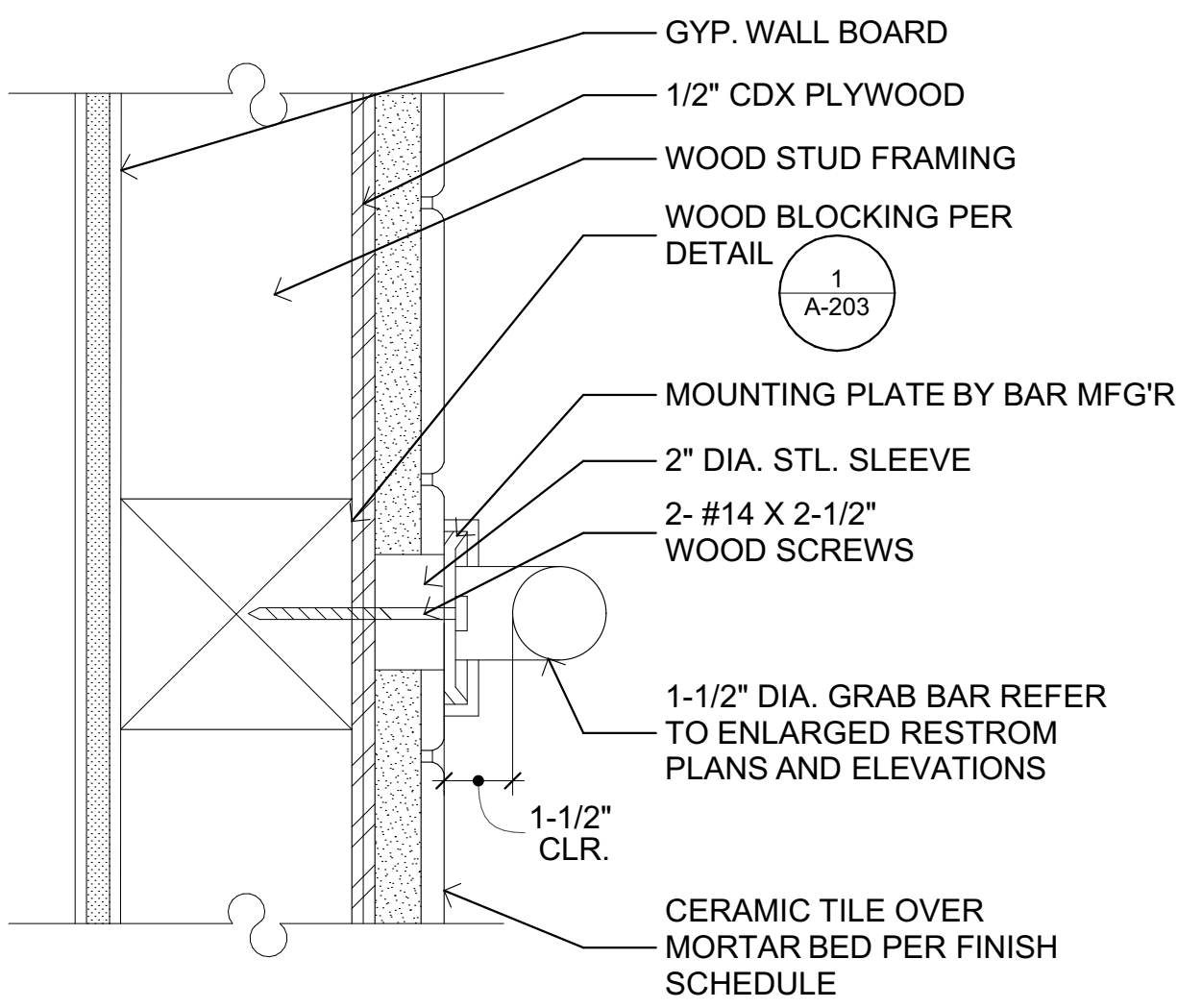
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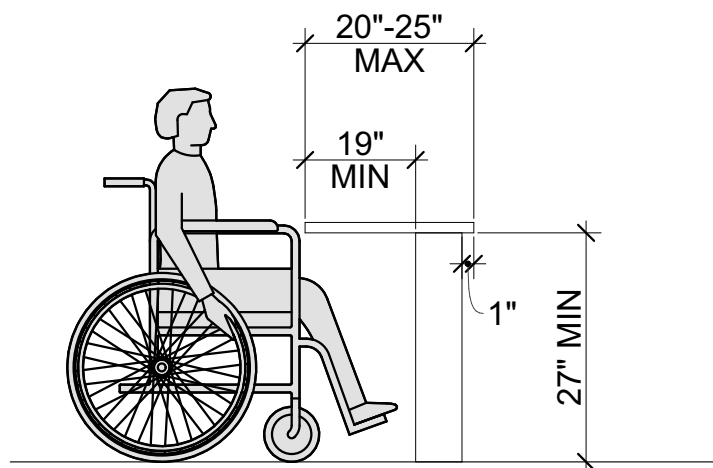
SHEET TITLE

FLOOR PLAN DETAILS

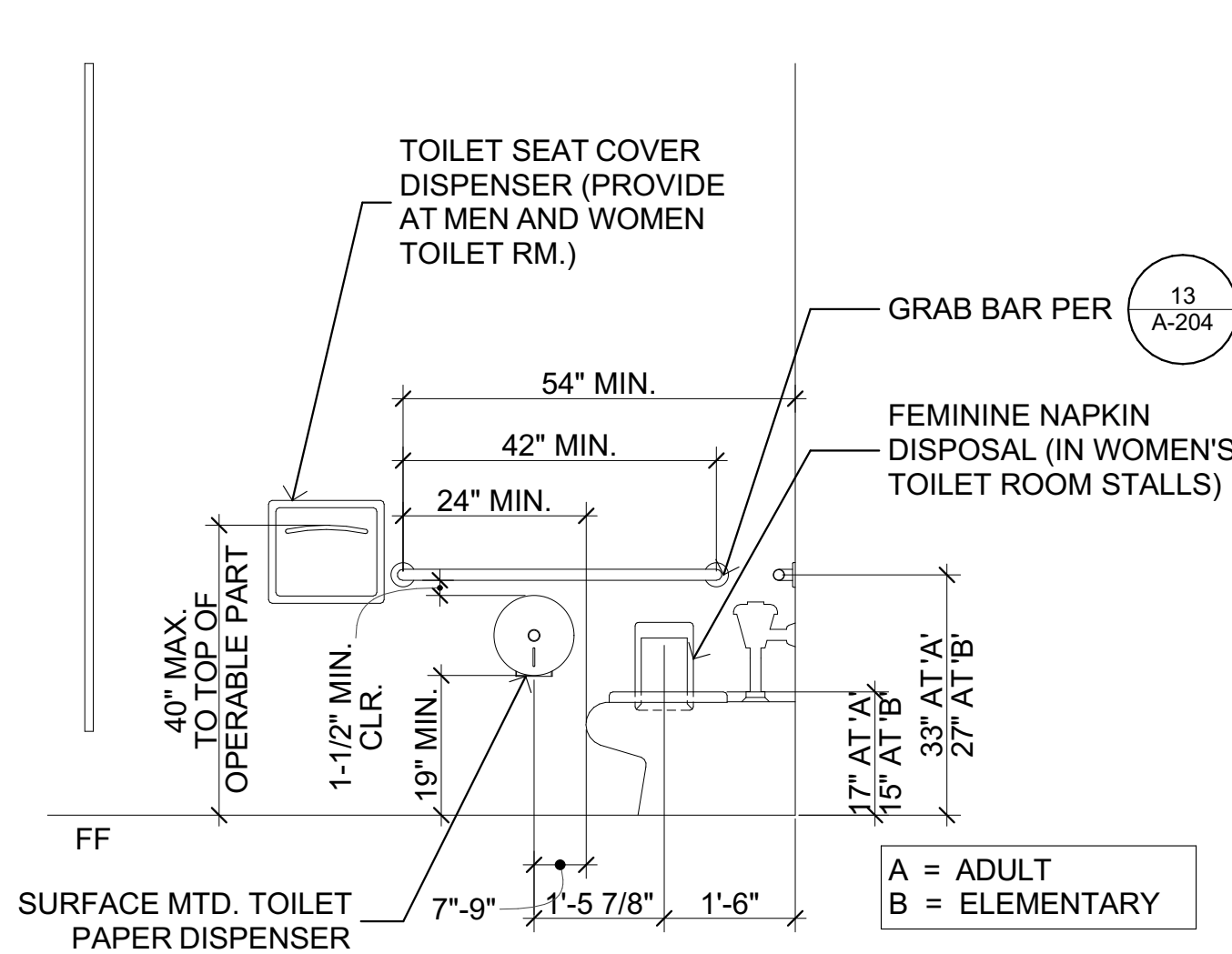
A-203



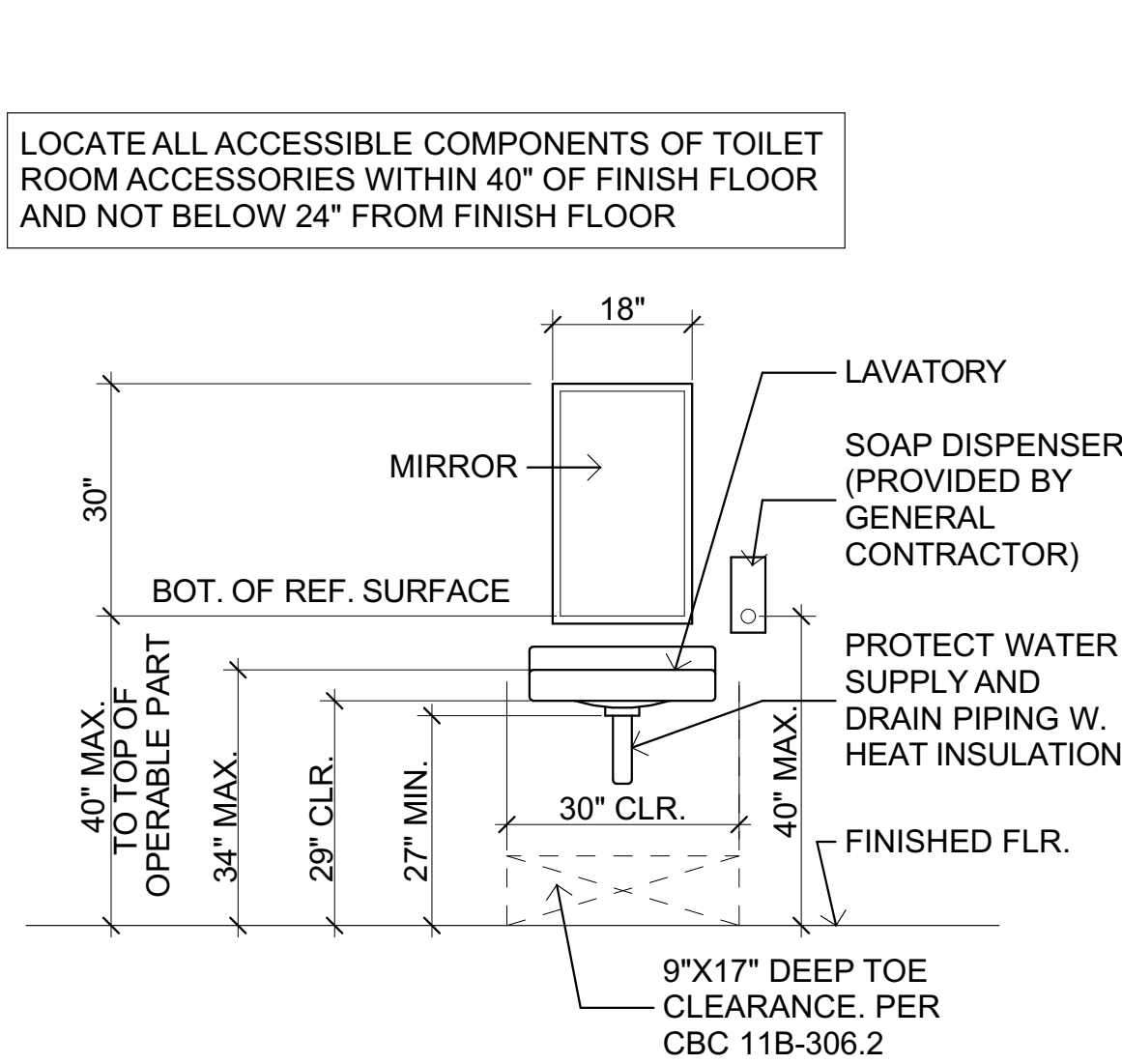
13 GRAB BAR MOUNTING AT WALL
SCALE: 1/2" = 1'-0"



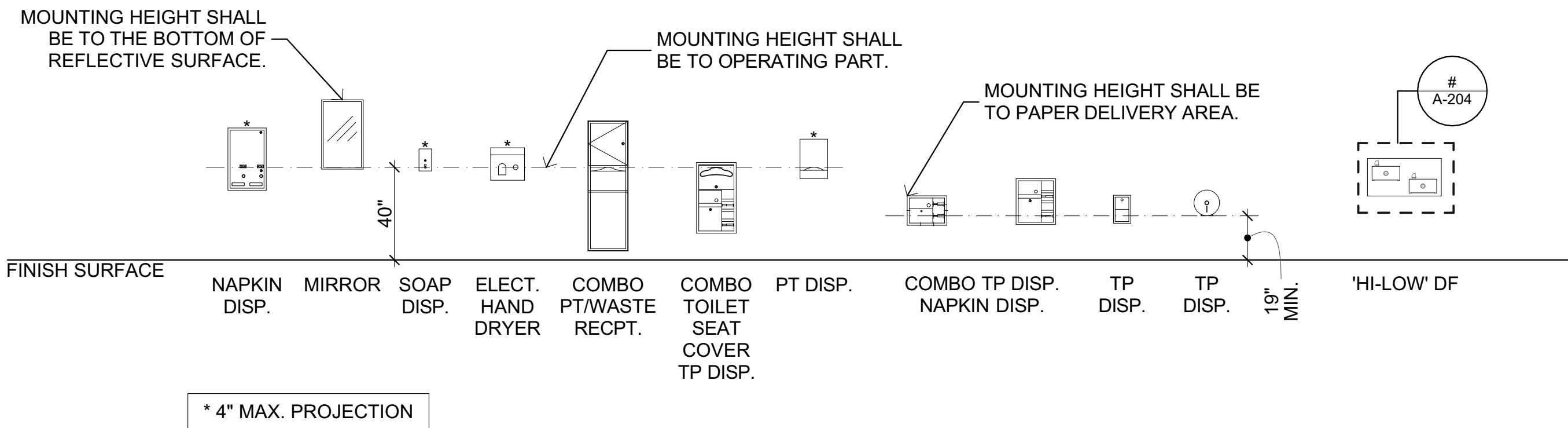
9 ACS REACH RANGES
SCALE: 1/2" = 1'-0"



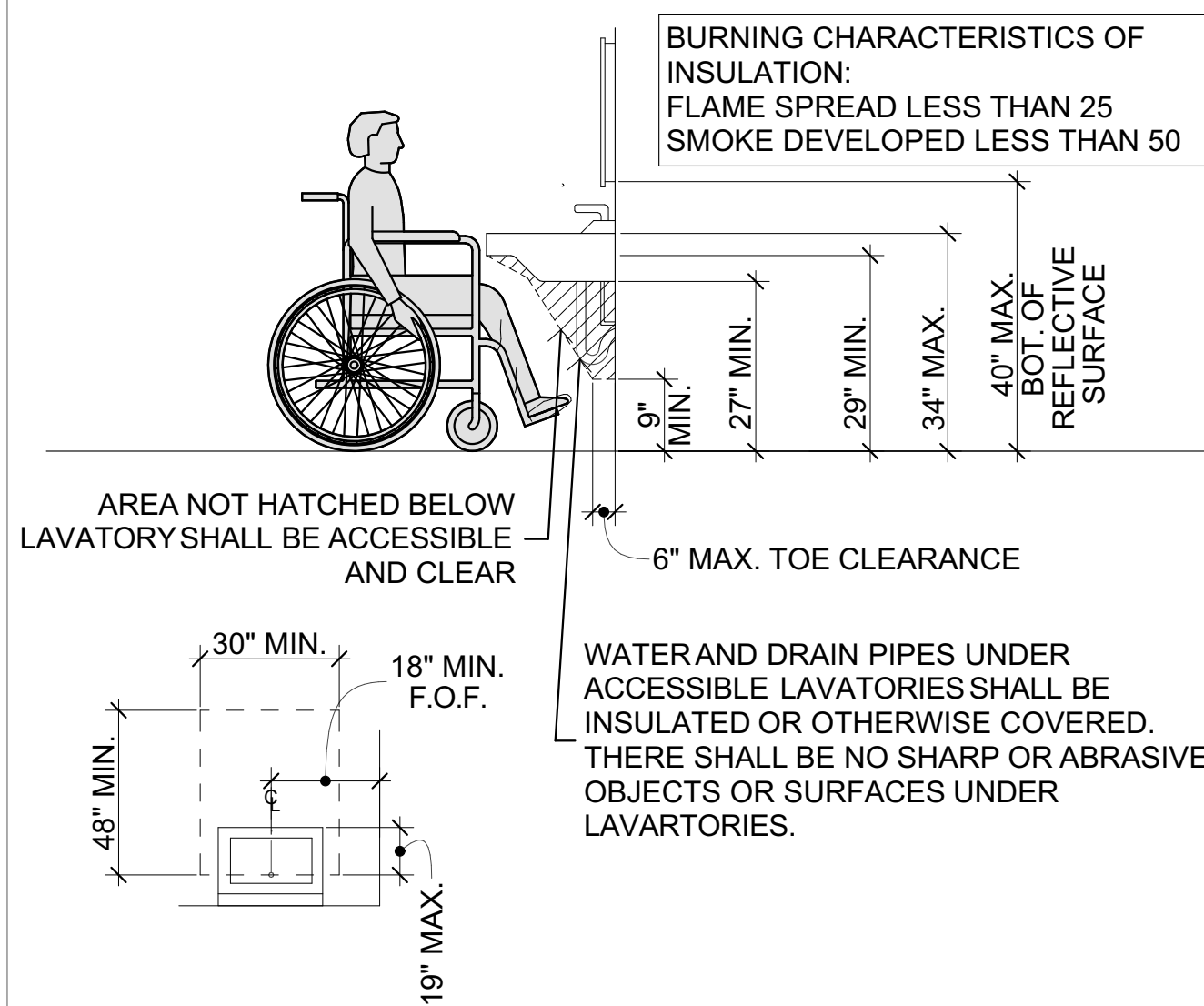
5 ACS STALL SIDE ELEVATION
SCALE: 1/2" = 1'-0"



1 ACS LAVATORY
SCALE: 1/2" = 1'-0"



6 ACCESSORY MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



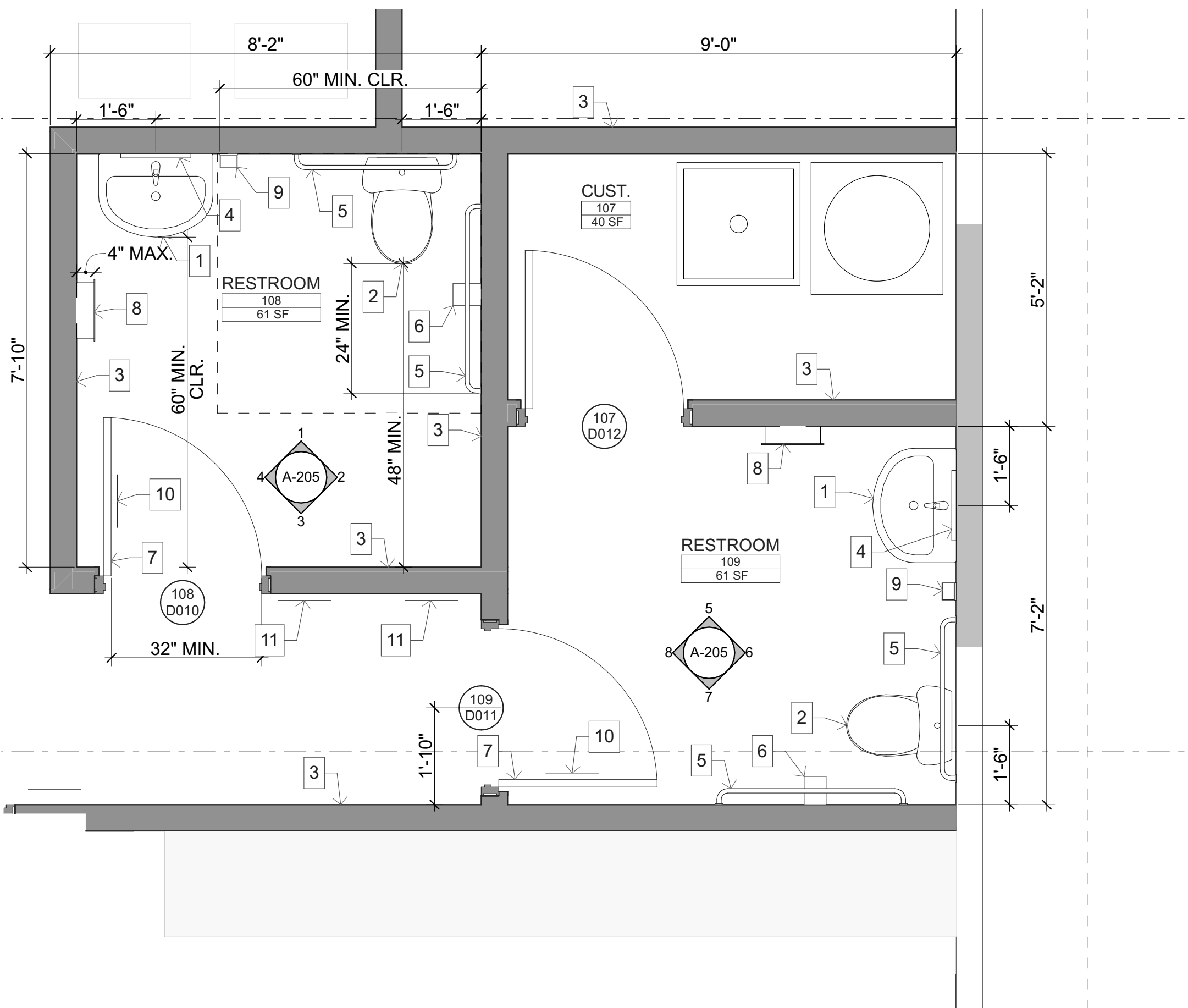
2 ACS LAVATORY CLEARANCES
SCALE: 1/2" = 1'-0"

NOTES

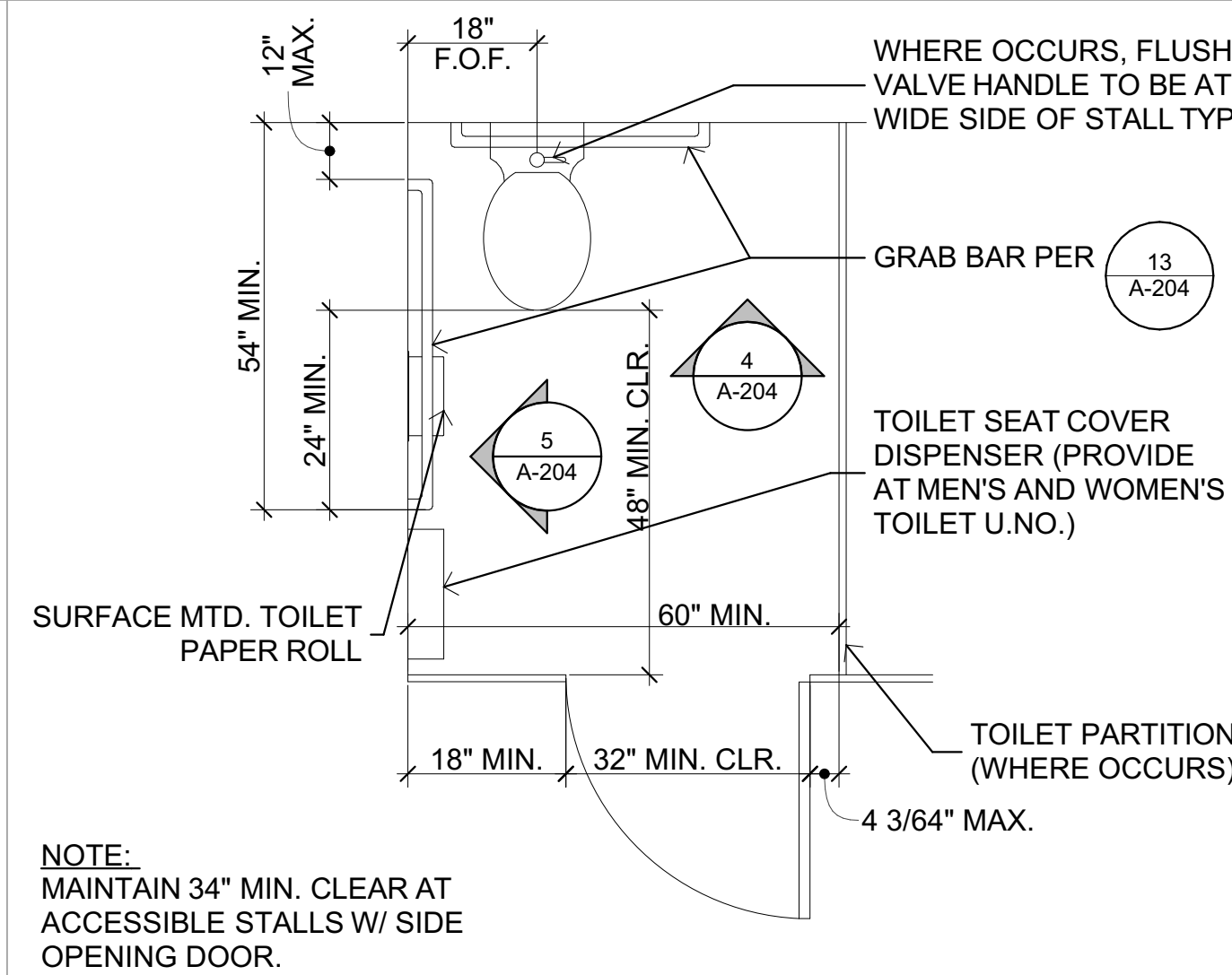
1. NEW ACCESSIBLE LAVATORY. REFER TO DETAIL 1 & 2/A-204 .
2. NEW ACCESSIBLE FLOOR MOUNTED WATER CLOSET. REFER TO DETAILS 3, 4, & 5/A-204 .
3. NEW INTERIOR WALL PER DETAIL 2/A-203 .
4. NEW STAINLESS STEEL FRAMED MIRROR. REFER TO DETAIL 1 & 6/A-204 FOR MOUNTING HEIGHTS.
5. NEW STAINLESS STEEL GRAB BAR. REFER TO DETAIL 3, 4, 5 & 13/ A-204 .
6. NEW SURFACE MOUNTED ACCESSIBLE TOILET TISSUE DISPENSER. REFER TO DETAIL 5 & 6/A-204 FOR MOUNTING HEIGHTS.
7. PROVIDE NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE SHEET A-901 .
8. NEW BRADLEY MODEL 2291-11 SURFACE MOUNTED PAPER TOWEL/ WASTE RECEPTACLE COMBO. REFER TO DETAIL 6/ A-204 FOR MOUNTING HEIGHTS.
9. NEW SURFACE MOUNTED LIQUID SOAP DISPENSER. REFER TO DETAIL 1 & 6/A-204 FOR MOUNTING HEIGHTS.
10. NEW GEOMETRIC DOOR SIGNAGE PER DETAIL 1 & 13/A-903.
11. NEW WALL SIGNAGE PER DETAIL 1 & 2/A-903 .

GENERAL NOTES

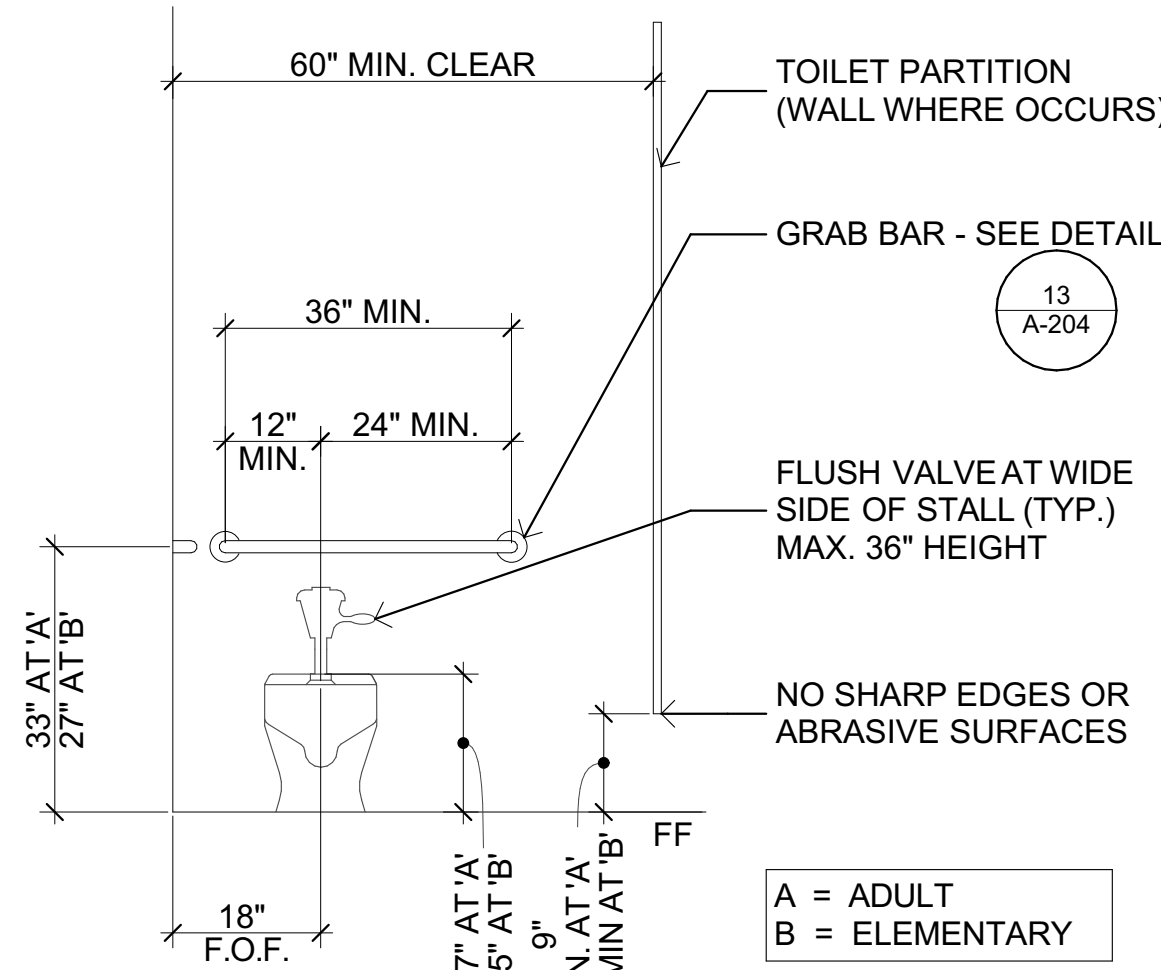
1. ALL DIMENSIONS SHALL BE TO FACE OF FINISH.



8 NEW WORK ENLARGED RESTROOM PLANS
SCALE: 1/2" = 1'-0"

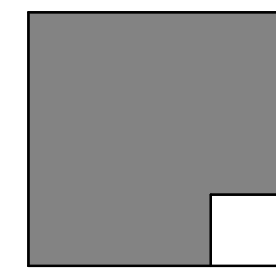


3 ACS STALL PLAN
SCALE: 1/2" = 1'-0"



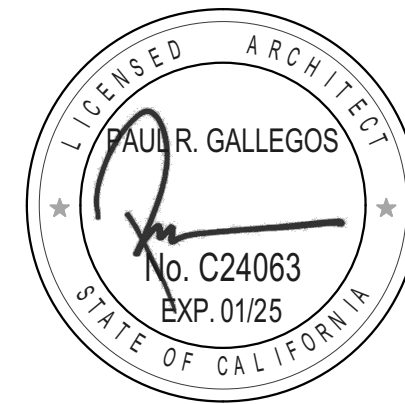
4 ACS STALL FRONT ELEVATION
SCALE: 1/2" = 1'-0"

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REVISIONS		
MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

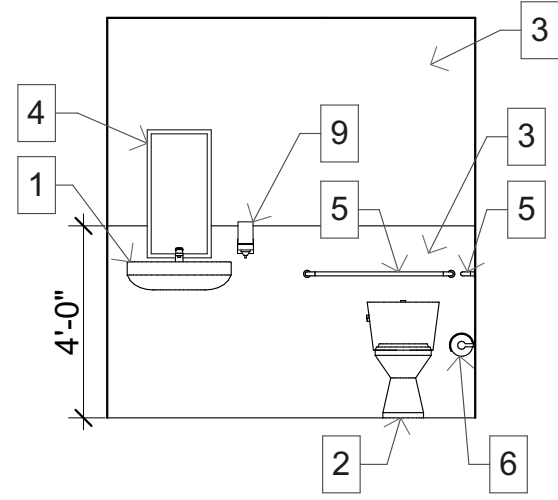
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PLOT DATE:
12/21/2023

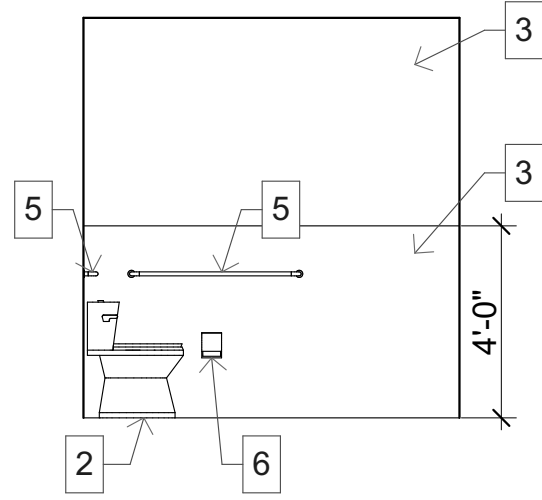
SHEET TITLE

ENLARGED RESTROOM
PLAN & DETAILS

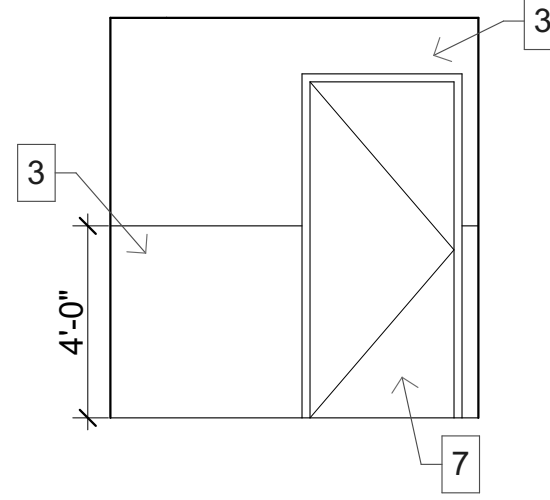
A-204



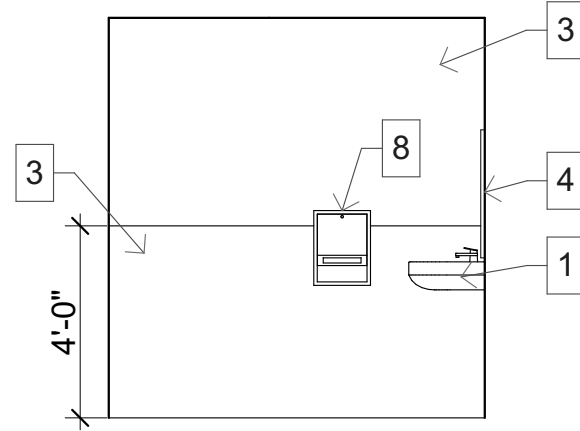
1 108 RESTROOM
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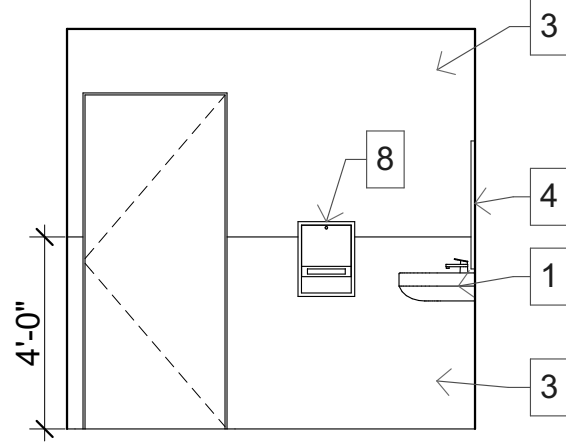
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SCALE: 1/4" = 1'-0"



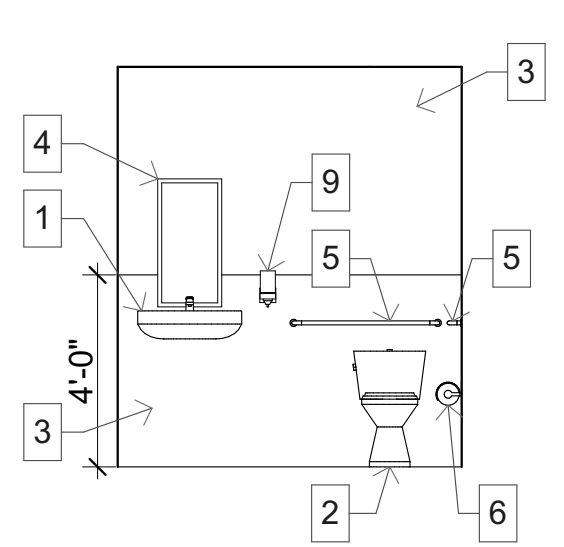
3 108 RESTROOM
SCALE: 1/4" = 1'-0"



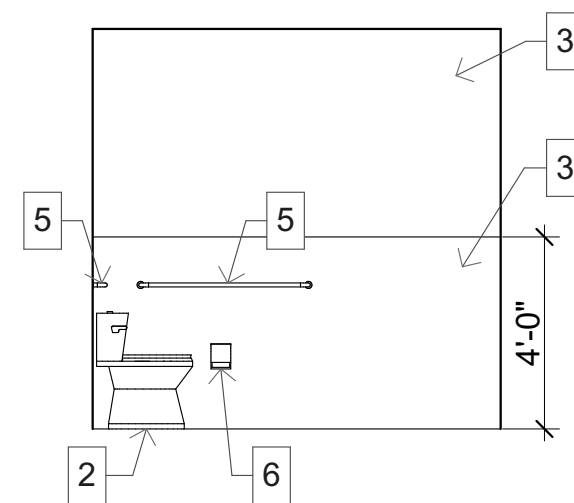
4 108 RESTROOM
SCALE: 1/4" = 1'-0"



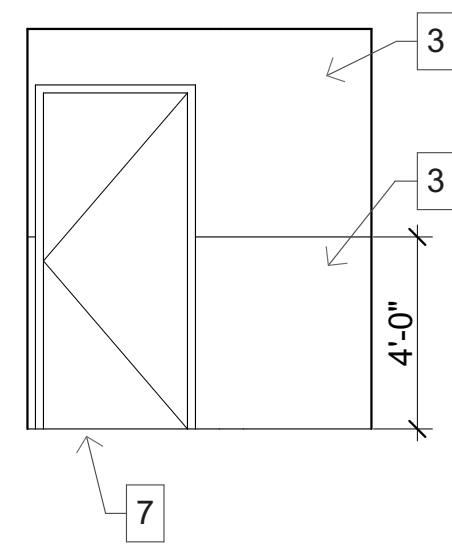
5 109 RESTROOM
SCALE: 1/4" = 1'-0"



6 109 RESTROOM
SCALE: 1/4" = 1'-0"



7 109 RESTROOM
SCALE: 1/4" = 1'-0"

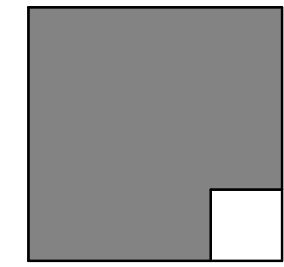


8 109 RESTROOM
SCALE: 1/4" = 1'-0"

NOTES

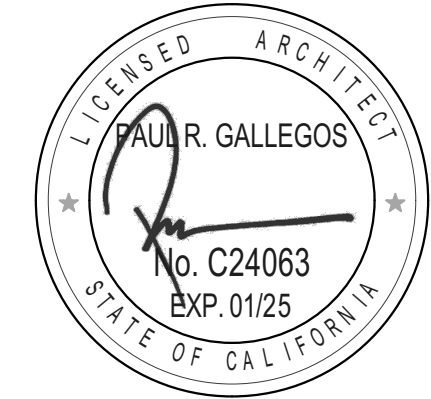
1. NEW ACCESSIBLE LAVATORY. REFER TO DETAIL 1 & 2/A-204.
2. NEW ACCESSIBLE FLOOR MOUNTED WATER CLOSET. REFER TO DETAILS 3,4, & 5/A-204.
3. FINISH PER FINISH SCHEDULE.
4. NEW STAINLESS STEEL FRAMED MIRROR. REFER TO DETAIL 1 & 6/A-204 FOR MOUNTING HEIGHTS.
5. NEW STAINLESS STEEL GRAB BAR. REFER TO DETAIL 3,4, 5 & 13/A-204.
6. NEW SURFACE MOUNTED ACCESSIBLE TOILET TISSUE DISPENSER. REFER TO DETAIL 5 & 6/A-204 FOR MOUNTING HEIGHTS.
7. PROVIDE NEW DOOR AND FRAME. REFER TO DOOR SCHEDULE SHEET A-901.
8. NEW BRADLEY MODEL 2291-11 SURFACE MOUNTED PAPER TOWEL/ WASTE RECEPTACLE COMBO. REFER TO DETAIL 6/A-204 FOR MOUNTING HEIGHTS.
9. NEW SURFACE MOUNTED LIQUID SOAP DISPENSER. REFER TO DETAIL 1 & 6/A-204 FOR MOUNTING HEIGHTS.

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PROJECT NO: 23-003

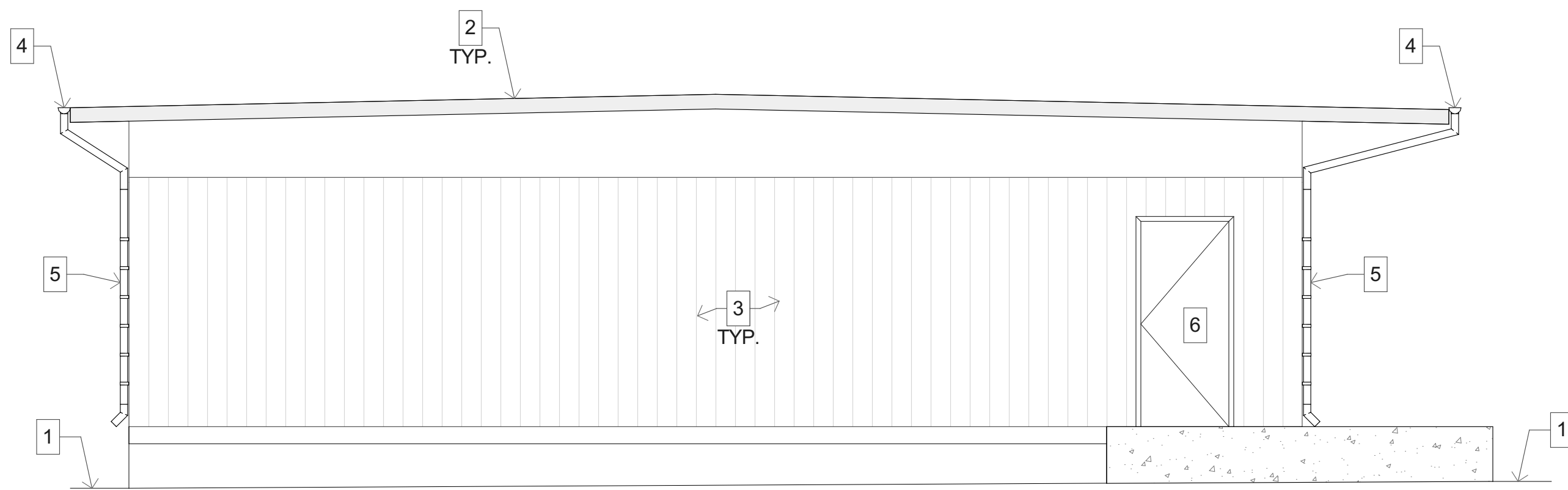
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PLOT DATE:
12/21/2023

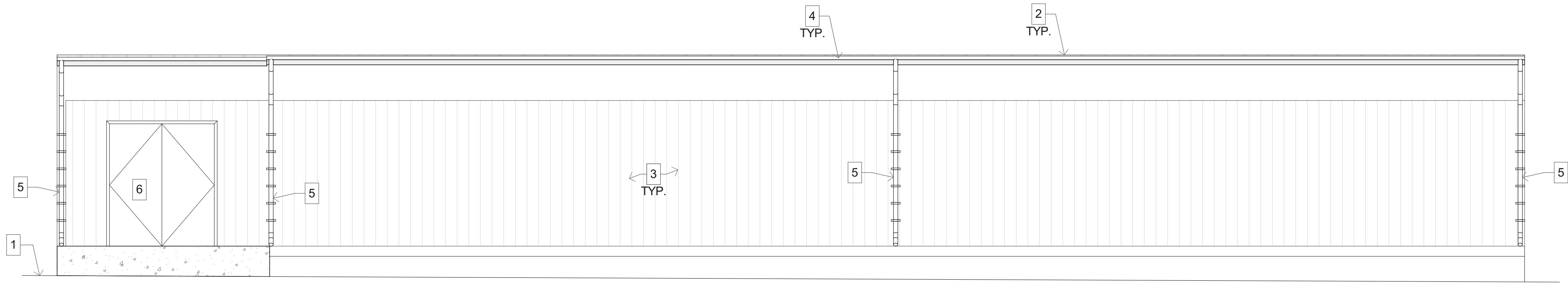
SHEET TITLE

RESTROOM INTERIOR
ELEVATIONS

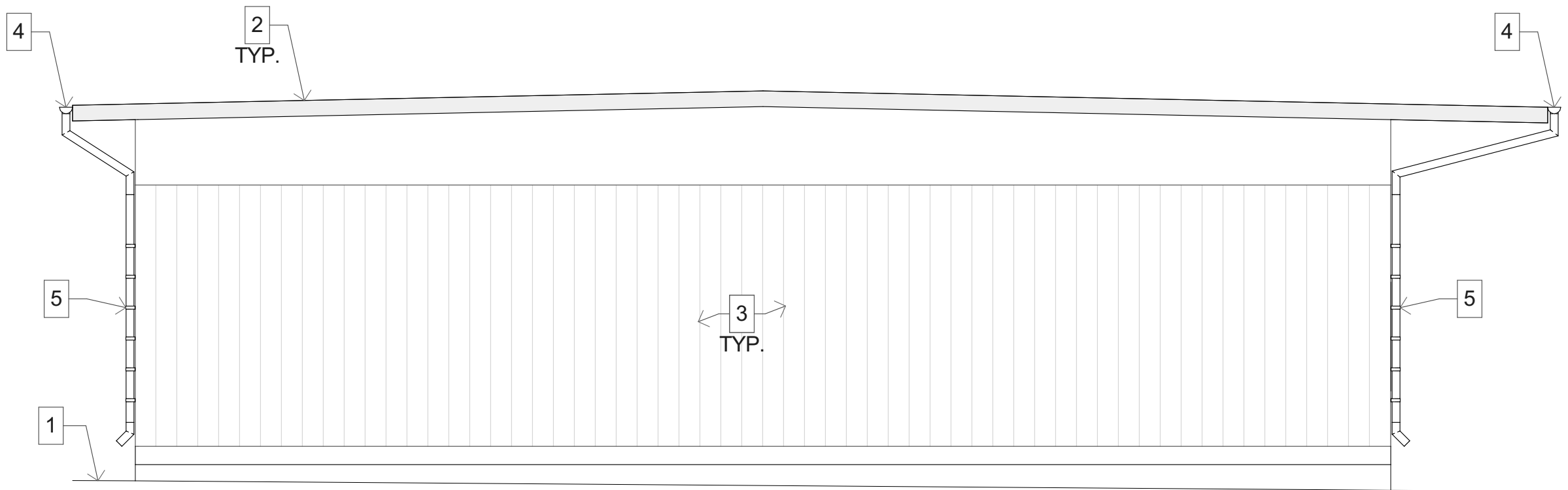
A-205



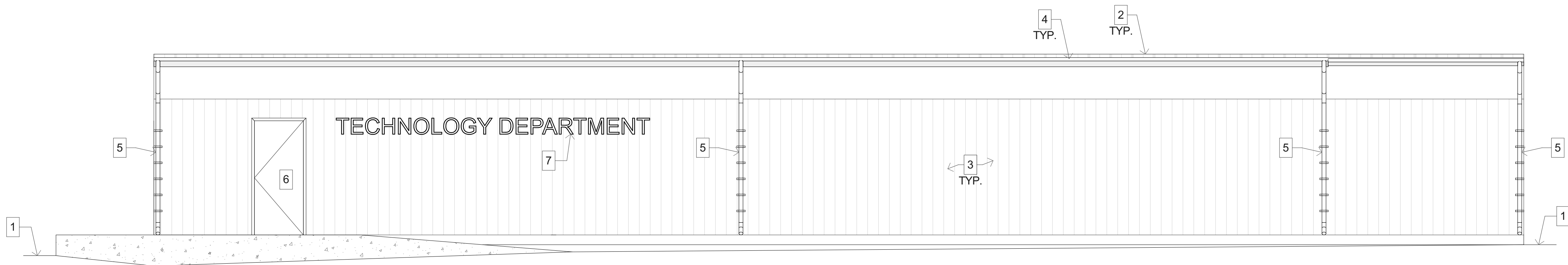
1 ELEVATION
SCALE: 1/4" = 1'-0"



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



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

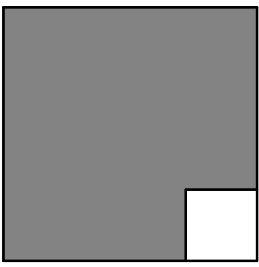


4 ELEVATION
SCALE: 1/4" = 1'-0"

NOTES

1. FINISH GRADE.
2. NEW PRE- FINISHED STANDING SEAM METAL ROOFING.
3. NEW 5/8" EXTERIOR SIDING TO MATCH ORIGINAL. FASTEN PER ORIGINAL RELO BUILDING REQUIREMENTS.
4. NEW PREFINISHED METAL GUTTER.
5. NEW METAL DOWNSPOUTS.
6. NEW DOOR - REFER TO DOOR SCHEDULE.
7. NEW 12" HIGH ALUMINUM LETTER BUILDING IDENTIFICATION SIGNAGE PER DETAIL 8/A-203 .

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GENERAL NOTES

1. ALL EXPOSED EXTERIOR MATERIAL SURFACES SHALL BE FINISHED / PAINTED PER SPECIFICATION. UNLESS MATERIALS ARE SPECIFIED AS PRE-FINISHED.
2. PROVIDE UNDERFLOOR VENTING IN COMPLIANCE WITH THE ORIGINAL RELO BUILDING MANUFACTURER'S DRAWINGS.

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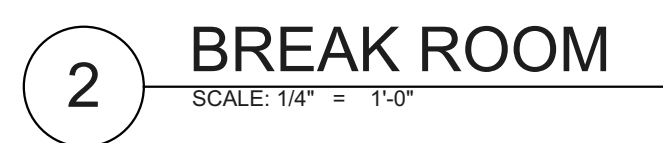
MODEL FILE:
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PLOT DATE:
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SHEET TITLE

EXTERIOR ELEVATIONS

A-301



1. DOOR PER FLOOR PLAN AND DOOR SCHEDULE.
2. NEW PLASTIC LAMINATE CASEWORK. ADJUSTABLE SHELVING INDICATED DASHED WHERE APPLICABLE. REFER TO DETAILS 1, 6, 7, 4 & 8/A-602 FOR ANCHORAGE.
3. NEW FINISH PER FINISH SCHEDULE SHEET A-901.
4. NEW ACCESSIBLE SINK - REFER TO DETAIL 5/A-602 AND PLUMBING DRAWINGS.
5. NEW 6" TOPSET RUBBER WALL BASE. REFER TO FINISH SCHEDULE.
6. ACCESSIBLE WORKSTATION. REFER TO DETAIL 3/A-602.
7. NEW PLASTIC LAMINATE COUNTERTOP PER DETAIL 2/A-602.
8. NEW 4" PLASTIC LAMINATE BACKSPLASH.
9. NEW OWNER FURNISHED CONTRACTOR INSTALLED REFRIGERATOR.

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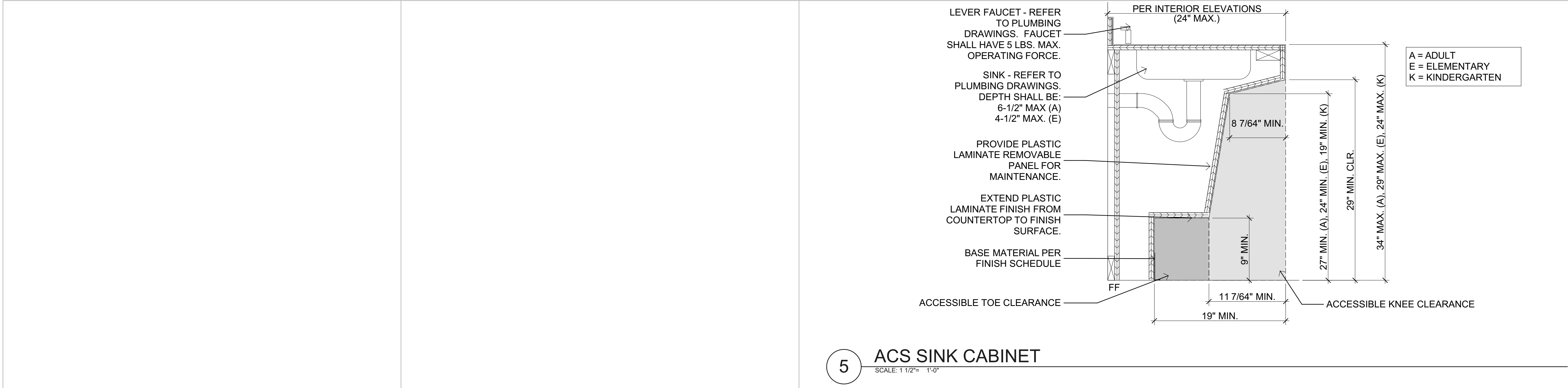
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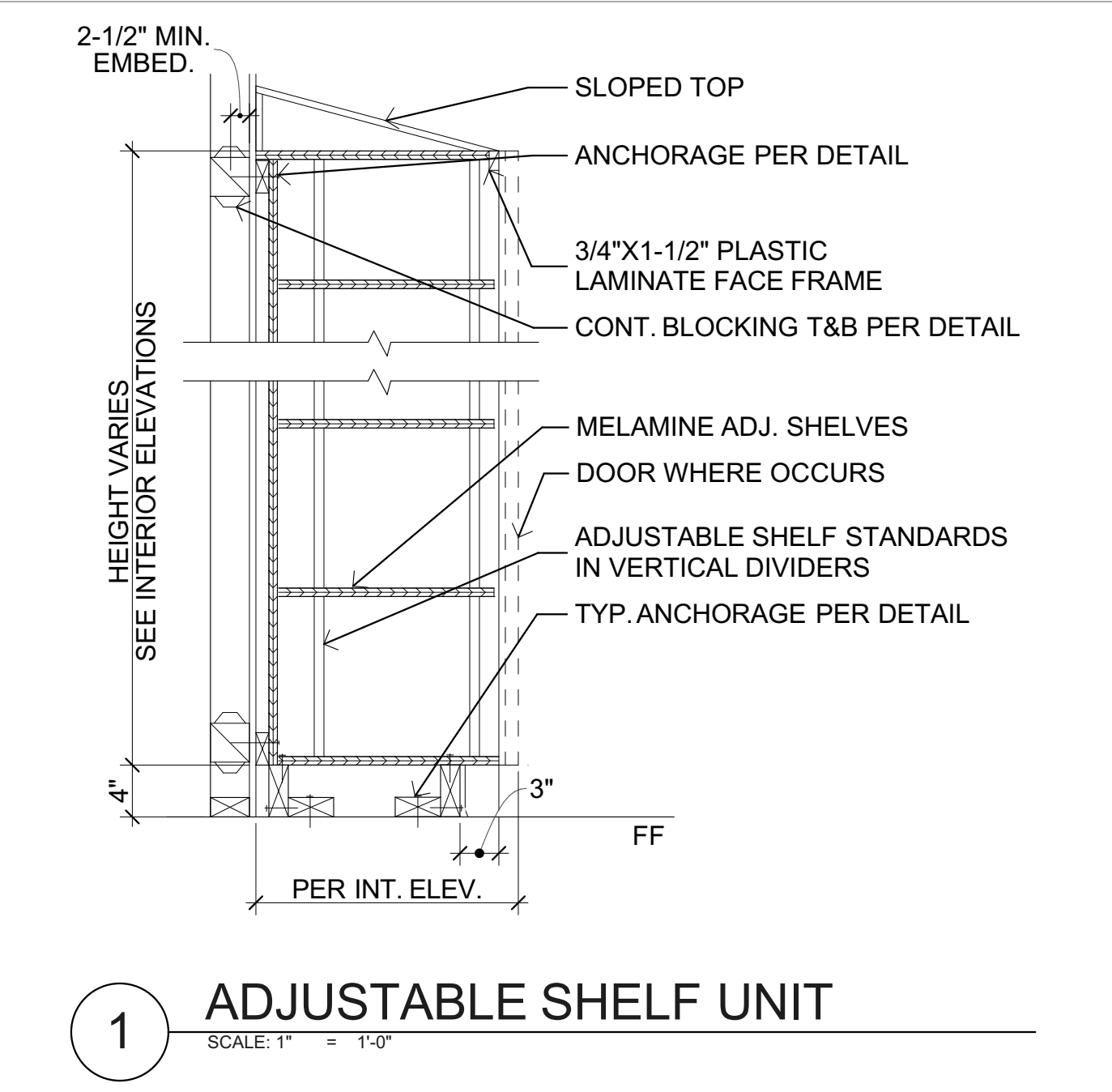
PLOT DATE:
12/21/2023

SHEET TITLE

A-601



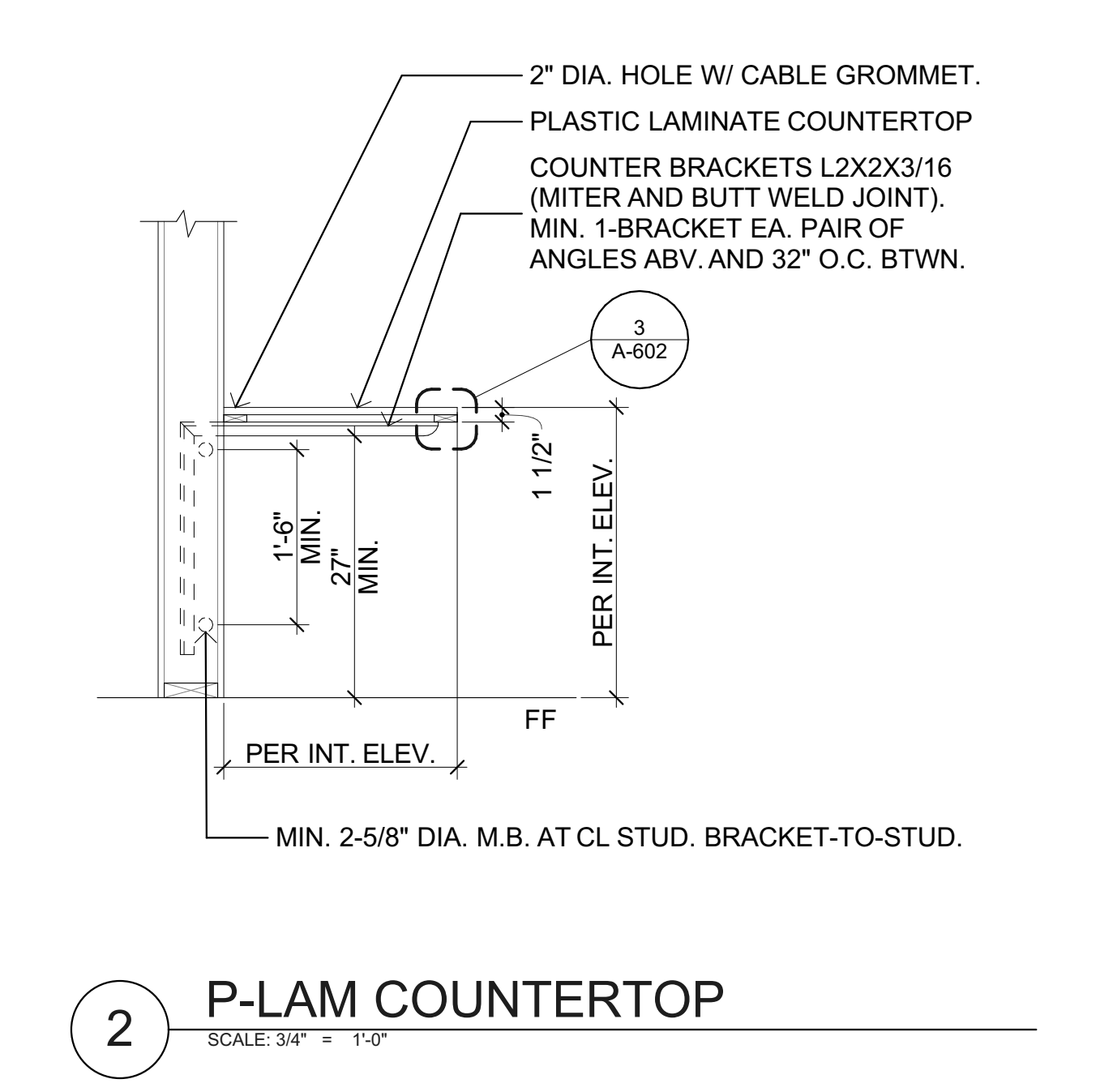
5 ACS SINK CABINET



1 ADJUSTABLE SHELF UNIT



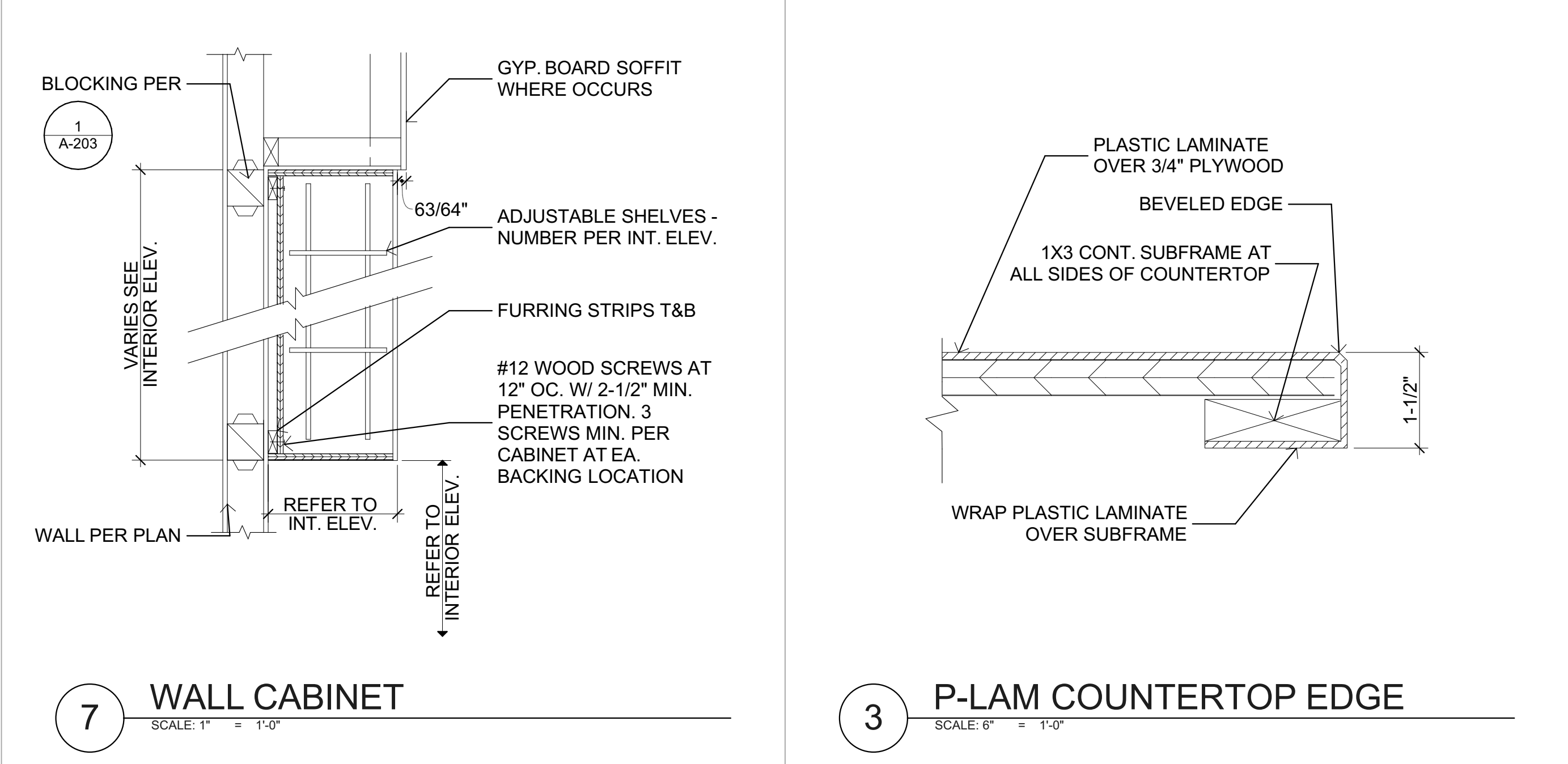
6 CASEWORK ANCHORAGE AT BASE



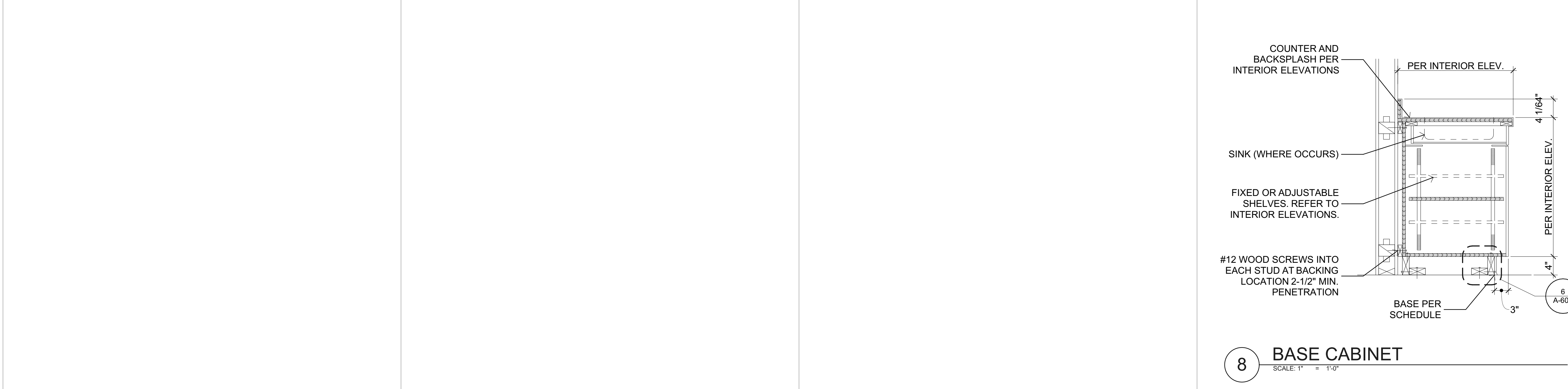
2 P-LAM COUNTERTOP



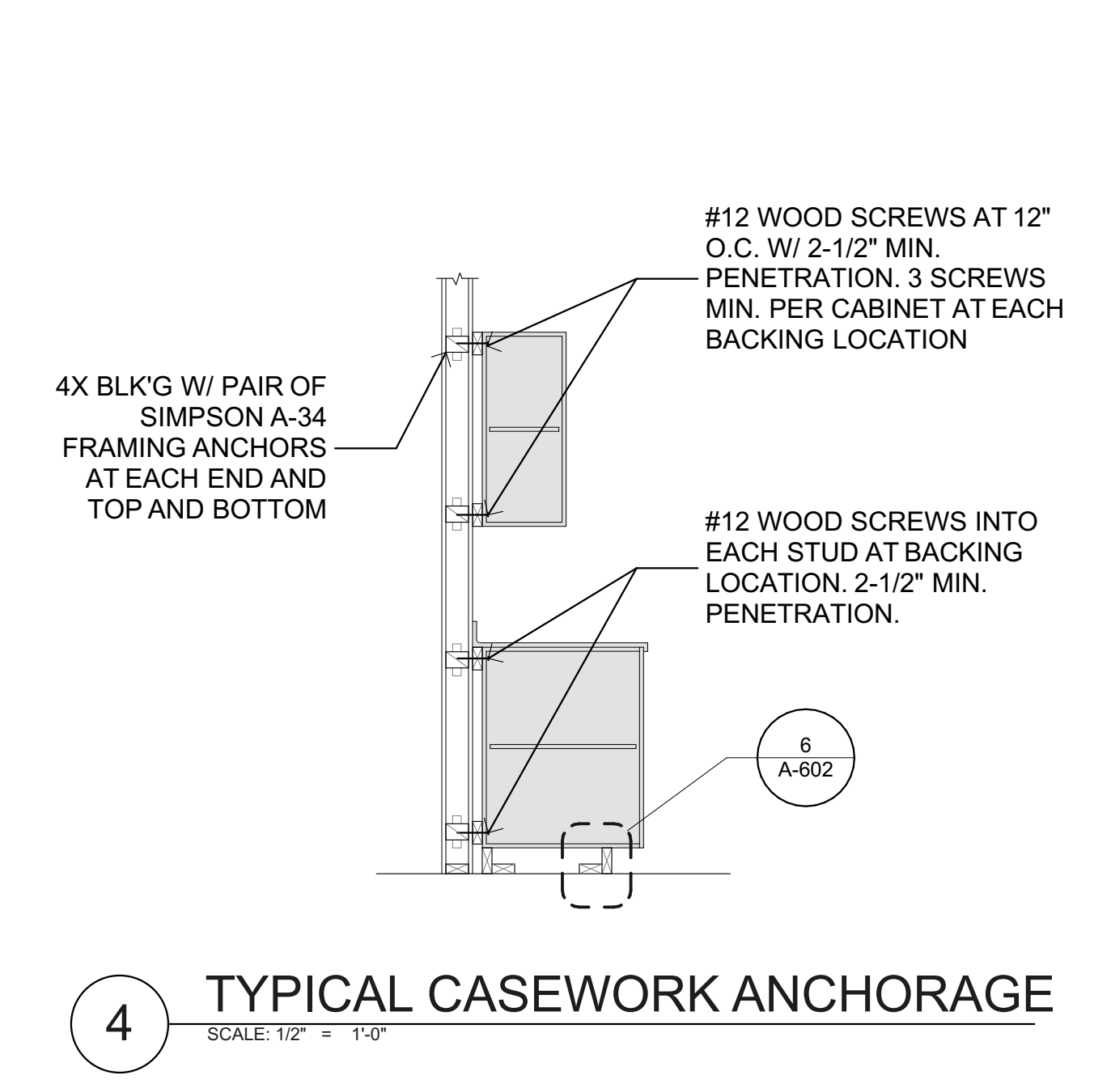
7 WALL CABINET



3 P-LAM COUNTERTOP EDGE



8 BASE CABINET

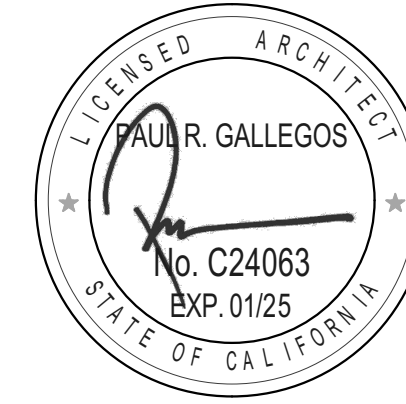


4 TYPICAL CASEWORK ANCHORAGE

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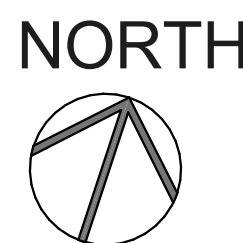
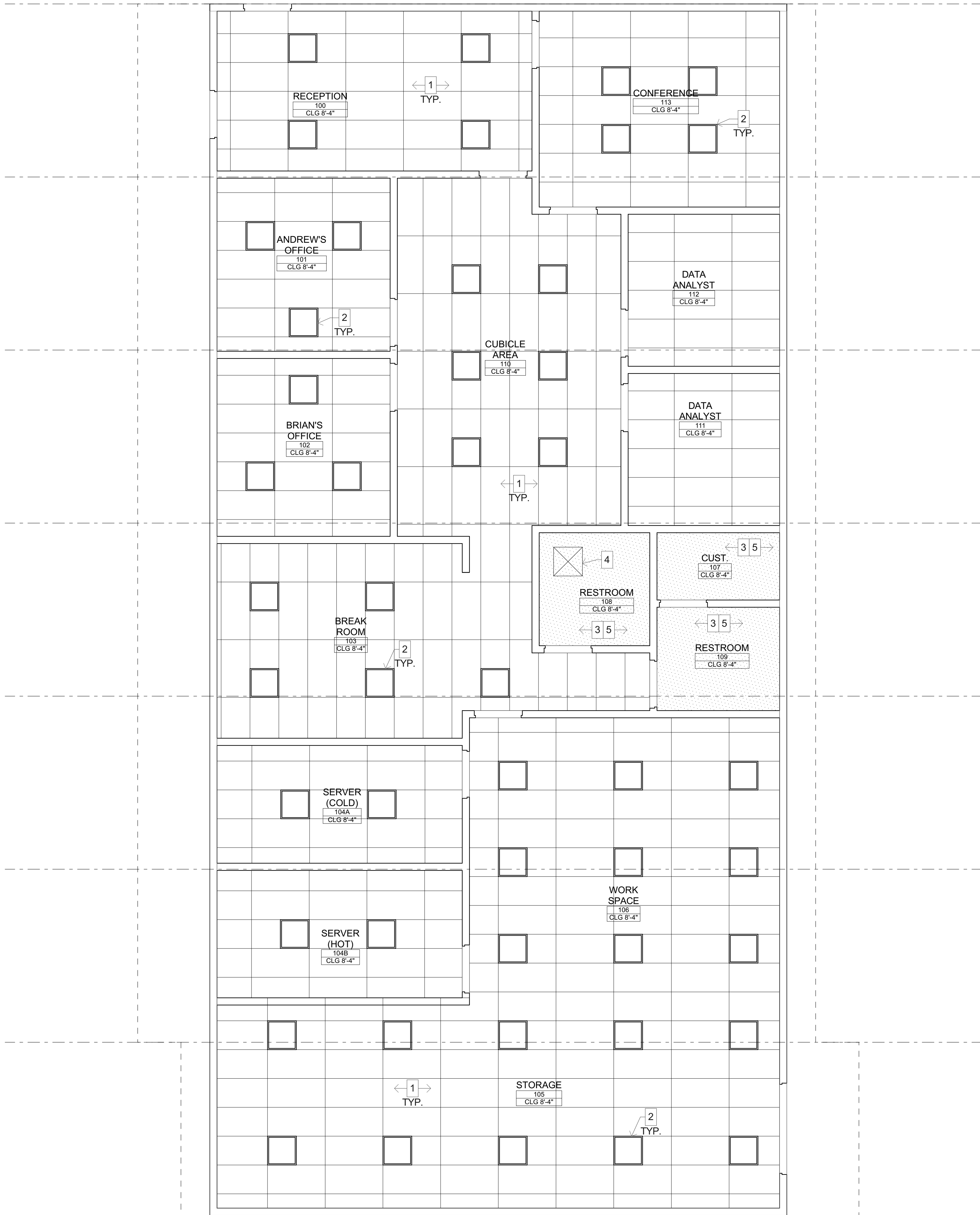
SHEET TITLE

CASEWORK DETAILS

A-602

1 REFLECTED CEILING PLAN

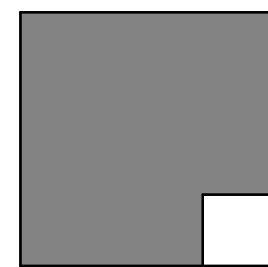
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NOTES

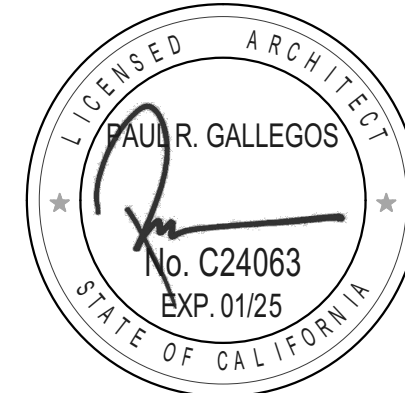
1. NEW ACOUSTICAL TILE CEILING IN SUSPENDED T-BAR GRID PER DETAILS ON SHEETS A-702 AND A-703
2. NEW LIGHT FIXTURE PER ELECTRICAL DRAWINGS.
3. NEW GYPSUM BOARD CEILING PER SPECIFICATIONS.
4. NEW 24" X 24" ACCESS PANEL.
5. NEW CEILING FRAMING PER DETAIL 1/A-703 .

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GENERAL NOTES

1. SEE SHEETS A-702 & A-703 FOR TYPICAL SUSPENDED ACOUSTICAL CEILING NOTES AND DETAILS.
2. REFER TO THE FINISH SCHEDULE AND THE SPECIFICATIONS FOR LOCATIONS AND DESCRIPTION OF VARIOUS ACOUSTICAL CEILING TYPES.
3. REFERENCE DETAIL 2.12/ A-702 FOR TYPICAL SUSPENDED CEILING LAYOUT.
4. REFERENCE DETAIL 2.60/ A-702 FOR PERIMETER ANGLE ATTACHEMENT.
5. REFERENCE DETAIL 2.80/ A-702 FOR LIGHT FIXTURE ATTACHEMENT.
6. REFERENCE DETAIL 4.10 & 4.11/ A-702 FOR HANGER WIRE ATTACHEMENT.
7. PROVIDE ACCESS PANELS WITHIN GYPSUM BOARD CEILING AS REQUIRED TO ACCESS CONCEALED EQUIPMENT. CONFIRM FINAL LOCATION AND SIZE WITH ARCHITECT. REFER TO SPECIFICATIONS.
8. ALL CEILING HEIGHTS MEASURED FROM FINISH FLOOR OF THEIR RESPECTIVE FLOOR.
9. AN ATTIC ACCESS OPENING NOT LESS THAN 20 INCHES BY 30 INCHES SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES. CLEAR HEADROOM OF NOT LESS THAN 30 INCHES SHALL BE PROVIDED IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING.

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SHEET TITLE

REFLECTED CEILING
PLAN

A-701

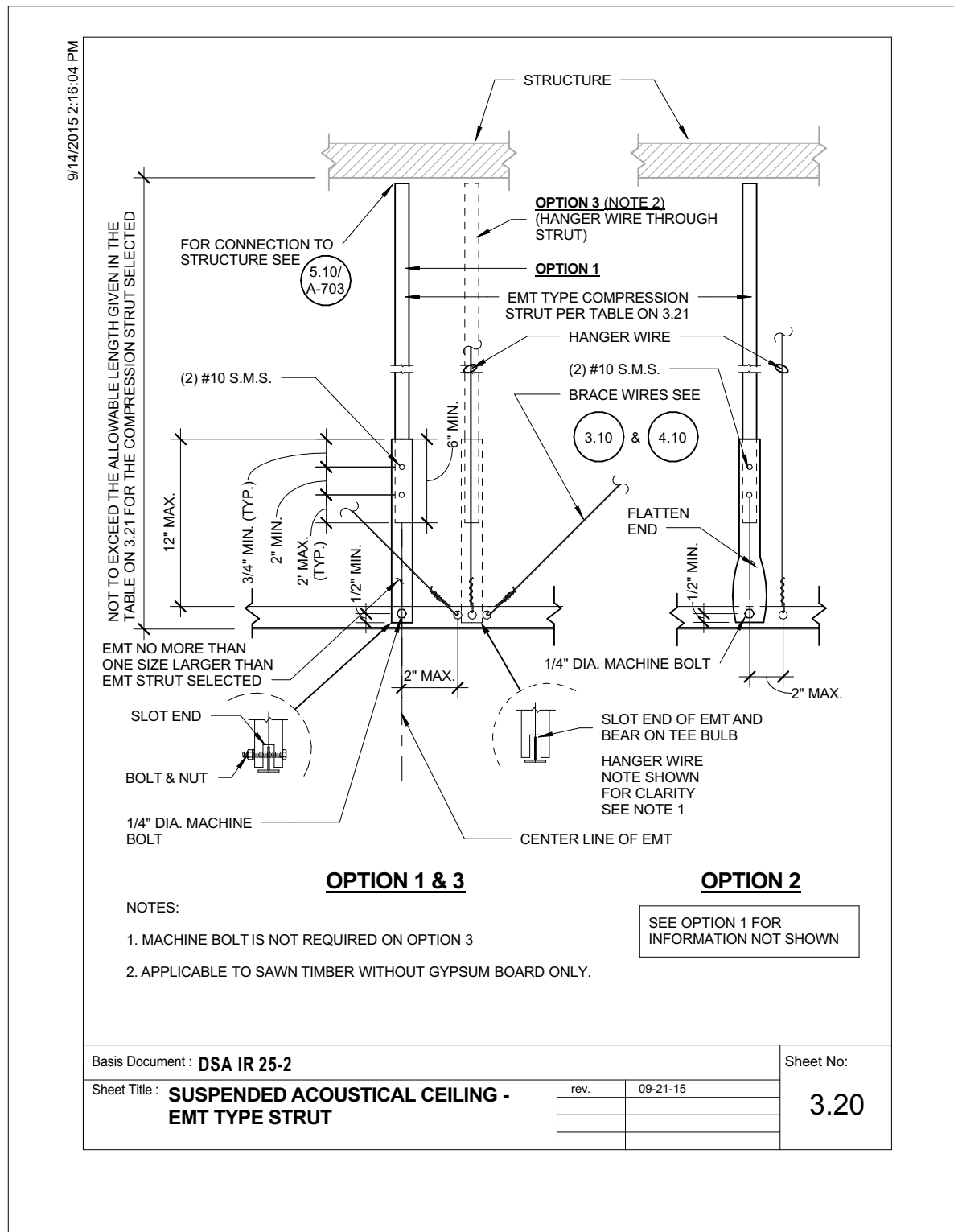
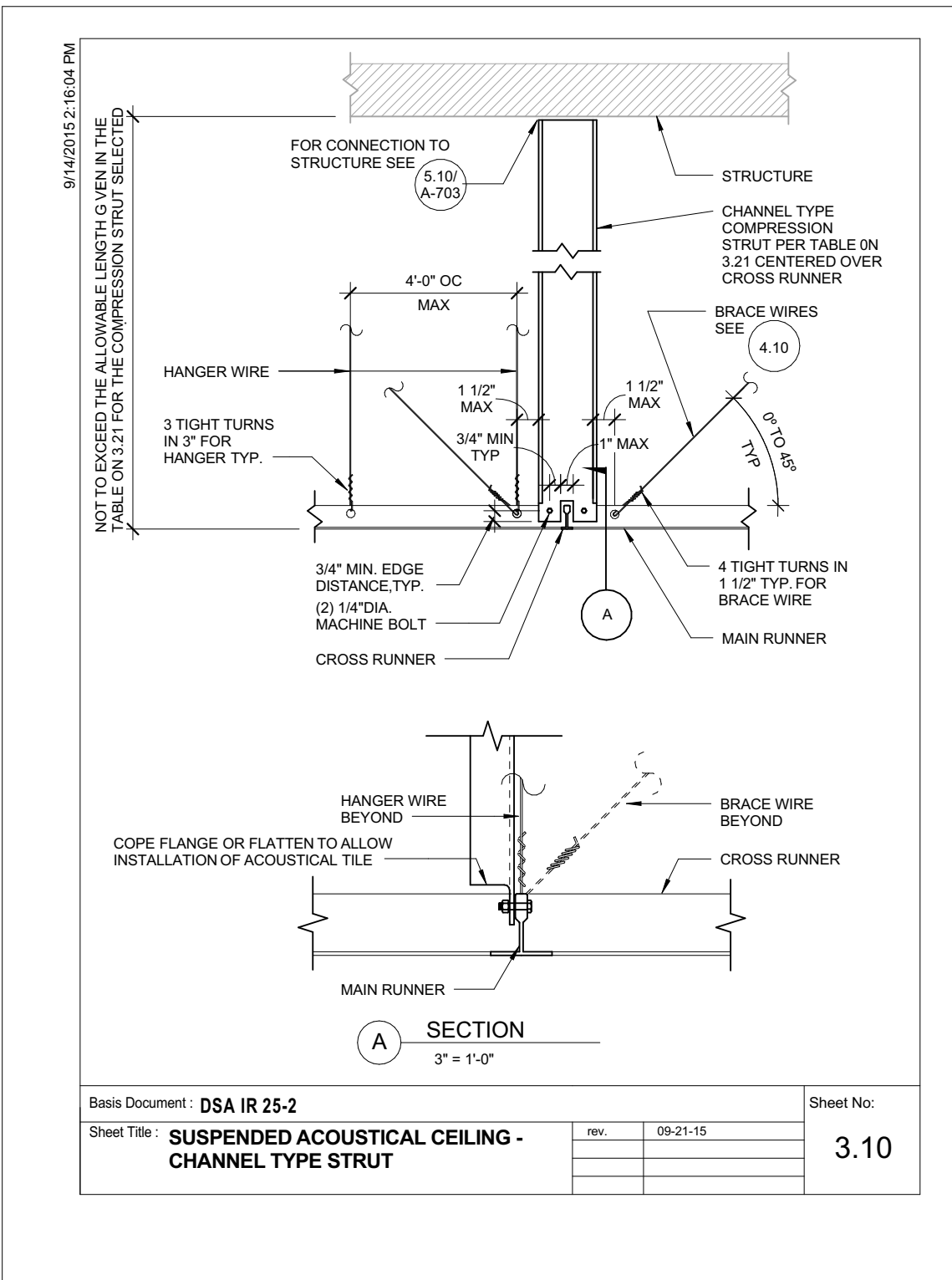
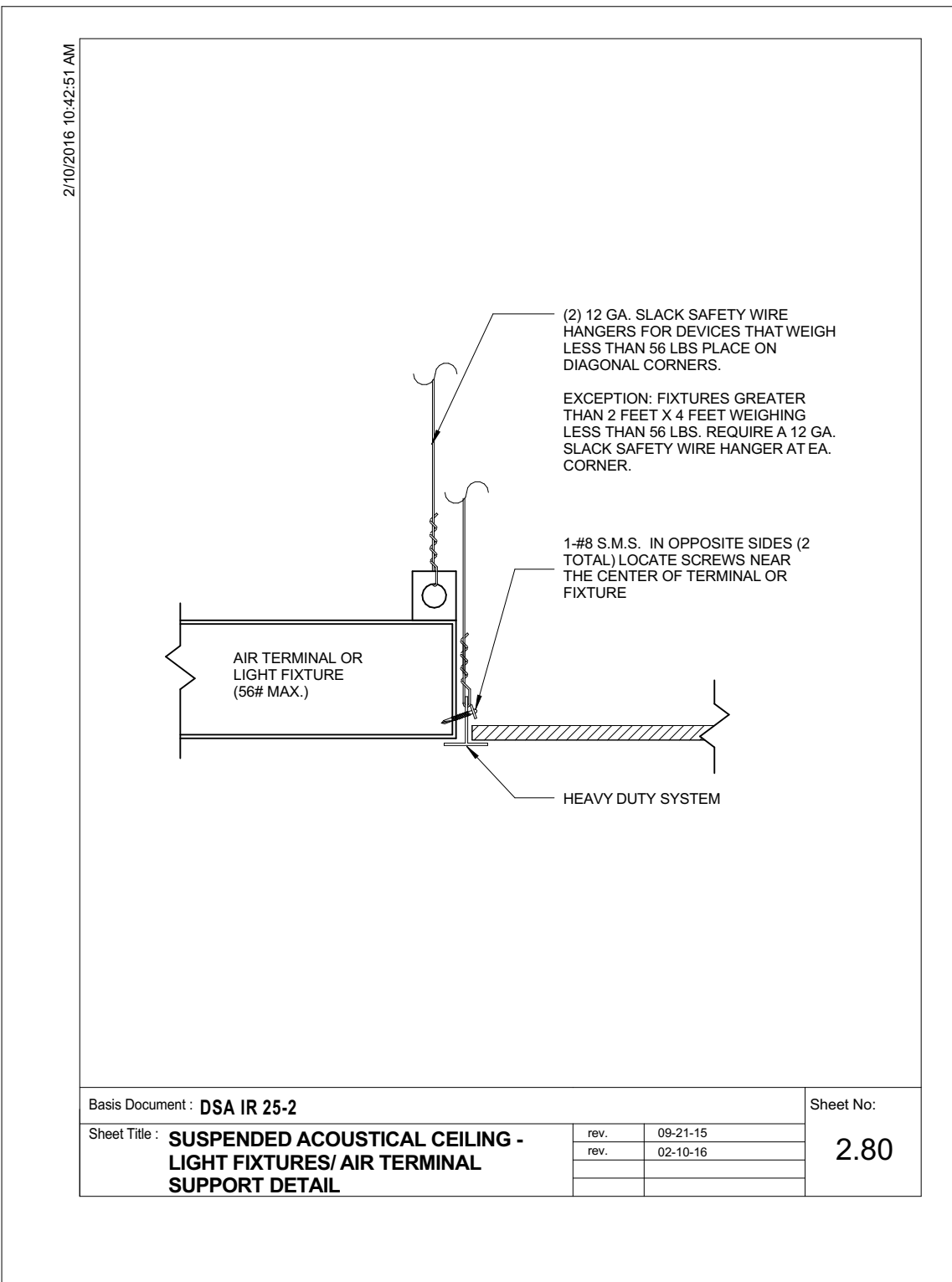
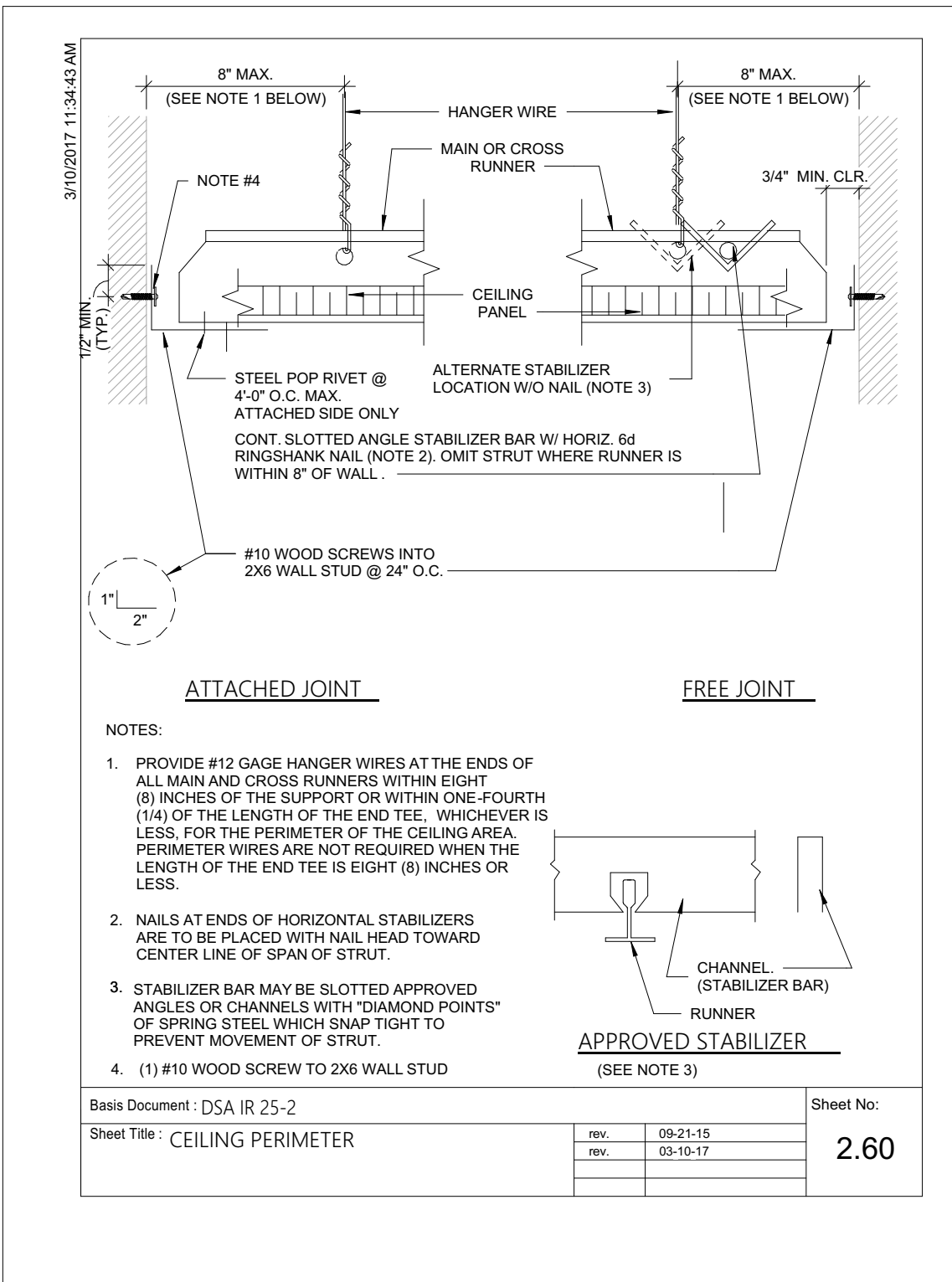
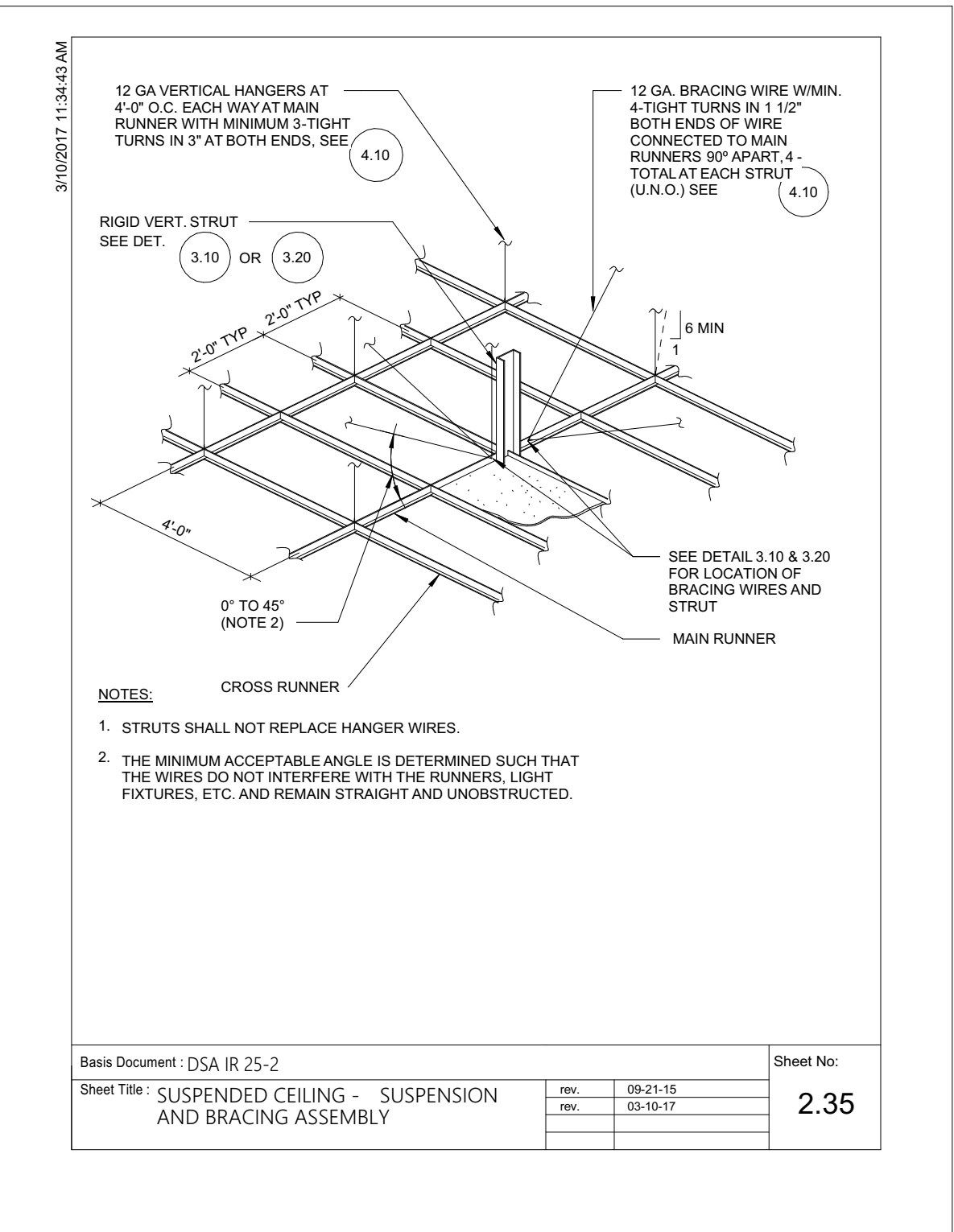
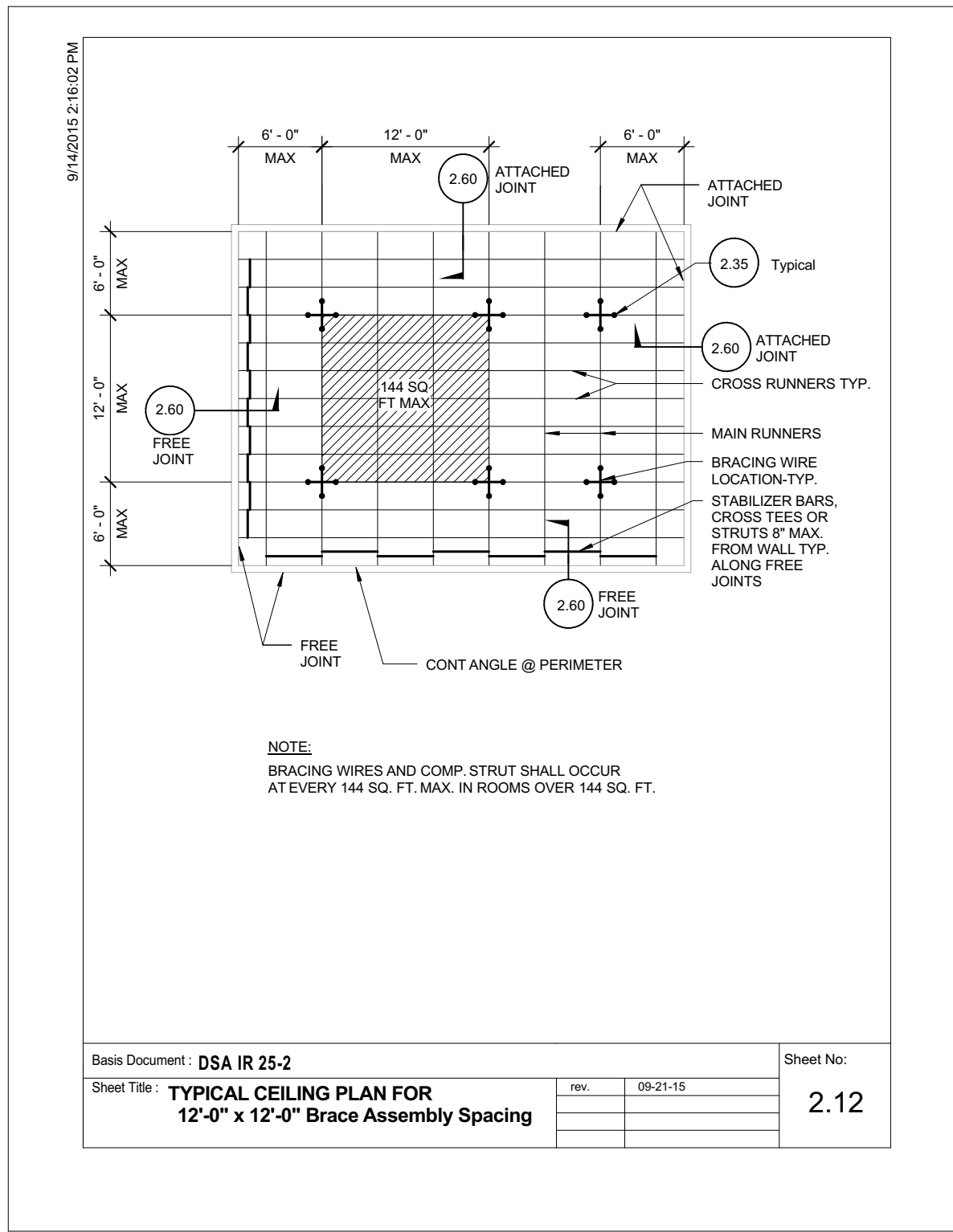
	1. CEILING SYSTEM GENERAL NOTES:	
1.01	Ceiling system components shall comply with ASTM C636 and Section 5.1 of ASTM E990.	
1.02	The ceiling grid system must be rated heavy duty as defined by ASTM C635.	
1.03	Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:	
	Manufacturer's Name: <u>ARMSTRONG WORLD INDUSTRIES, INC.</u> Product: Evaluation Report Type and Number: <u>ICC-ES ESR-118</u> Manufacturer's Model Number - main runner: <u>ARMSTRONG PRELUDE XL 45/16" ITEM NO. 7301</u> Manufacturer's catalog number - cross runner: <u>ARMSTRONG PRELUDE XL 15/16" ITEM NO. 7341</u>	
1.04	Seismic Wall Clip:	
	Manufacturer's Model: <u>NOT APPLICABLE</u>	
1.05	Ceiling panels shall not support any light fixtures, air terminals or devices.	
1.06	For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide "X" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide "X" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.	
2. MATERIALS:		
2.01	Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.	
2.02	Galvanized steel stud (including that used for metal stud and track suspension) shall conform to ASTM A651, 18" or other equivalent steel sheet listed in Section 4.3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members (ANSI S100).	
	Material: 43 mil (1.8 gage) and lighter shall have minimum yield strength of 33 ksi. Material: 56 mil (1.6 gage) and heavier shall have a minimum yield strength of 50 ksi.	
2.03	Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.	
Basic Document:	DSA IR 25-2	Sheet No:
Sheet Title:	Ceiling Notes	rev. 09-21-15
		1.00

3.	ATTACHMENT OF HANGER AND BRACING WIRES: Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced doors, pipes, conduit, etc. Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: pipe/ductwork, conduit and equipment. Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires. Slack safety wires shall be considered hanger wires for installation and testing requirements. Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they a lig-n closely with the direction of the wire, etc.)	
4.	FASTENERS AND WELDING:	
4.01	Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-08 (R2005). Penetration of screws through jointing material shall not be more than three exposed threads.	
4.02	Expansion anchors shall be: <u>NOT APPLICABLE</u>	
4.03	Power-Actuated Fasteners shall be: <u>NOT APPLICABLE</u>	
4.04	1) of not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member. Power-actuated fasteners in concrete are not permitted for bracing wires.	
4.06	Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post- installed anchors.	
4.07	Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.	
	TESTING: All field testing must be performed in the presence of the project inspector.	
5.01	Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.	
5.02	Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.	
Basis Document:	DSA IR 25-2	Sheet No:
Sheet Title:	<div style="text-align: center;"> Ceiling Notes </div>	rev. 02-21-15
		1.01

6. **LIGHT FIXTURES:**
 - 6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.
 - 6.02 Surface-mounted light fixtures shall be attached to the main structure with at least two positive fasteners. Services (sprinkler, ceiling-mounted air terminals or other) attached to the ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches or notches. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.
 - 6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
 - 6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
 - 6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.
 - 6.06 All light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) #12 gage slack safety wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) #12 gage wires and/or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.
7. **SERVICES WITHIN THE CEILING:**
 - 7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two fasteners are required for each service.
 - 7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above.
 - 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
 - 7.04 Flexible sprinkler/hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than two (2) #12 gage slack safety wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:	
8.01	All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.



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COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6'-4"
1" DIAMETER EMT (0.053" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

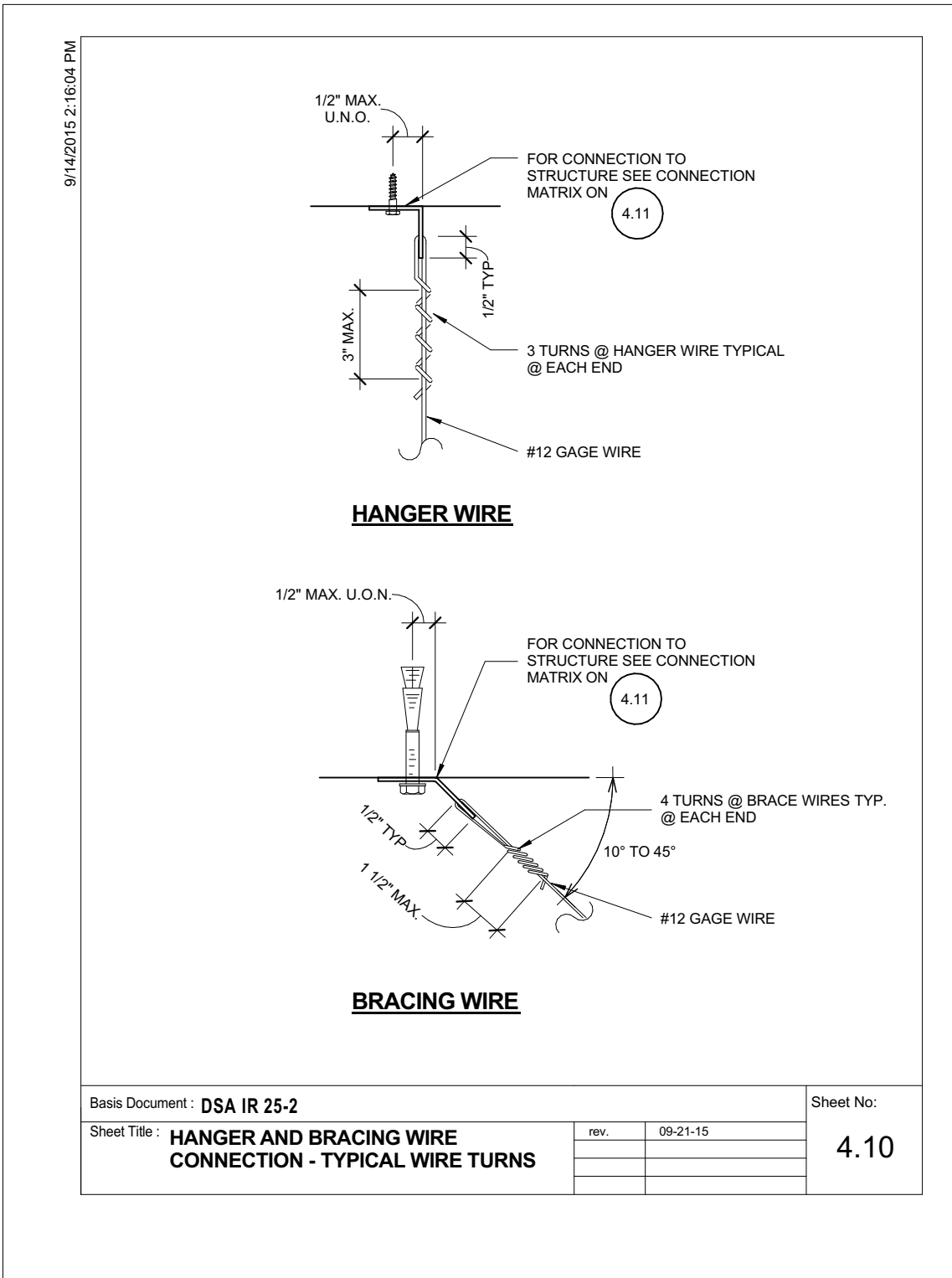
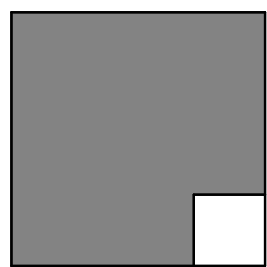
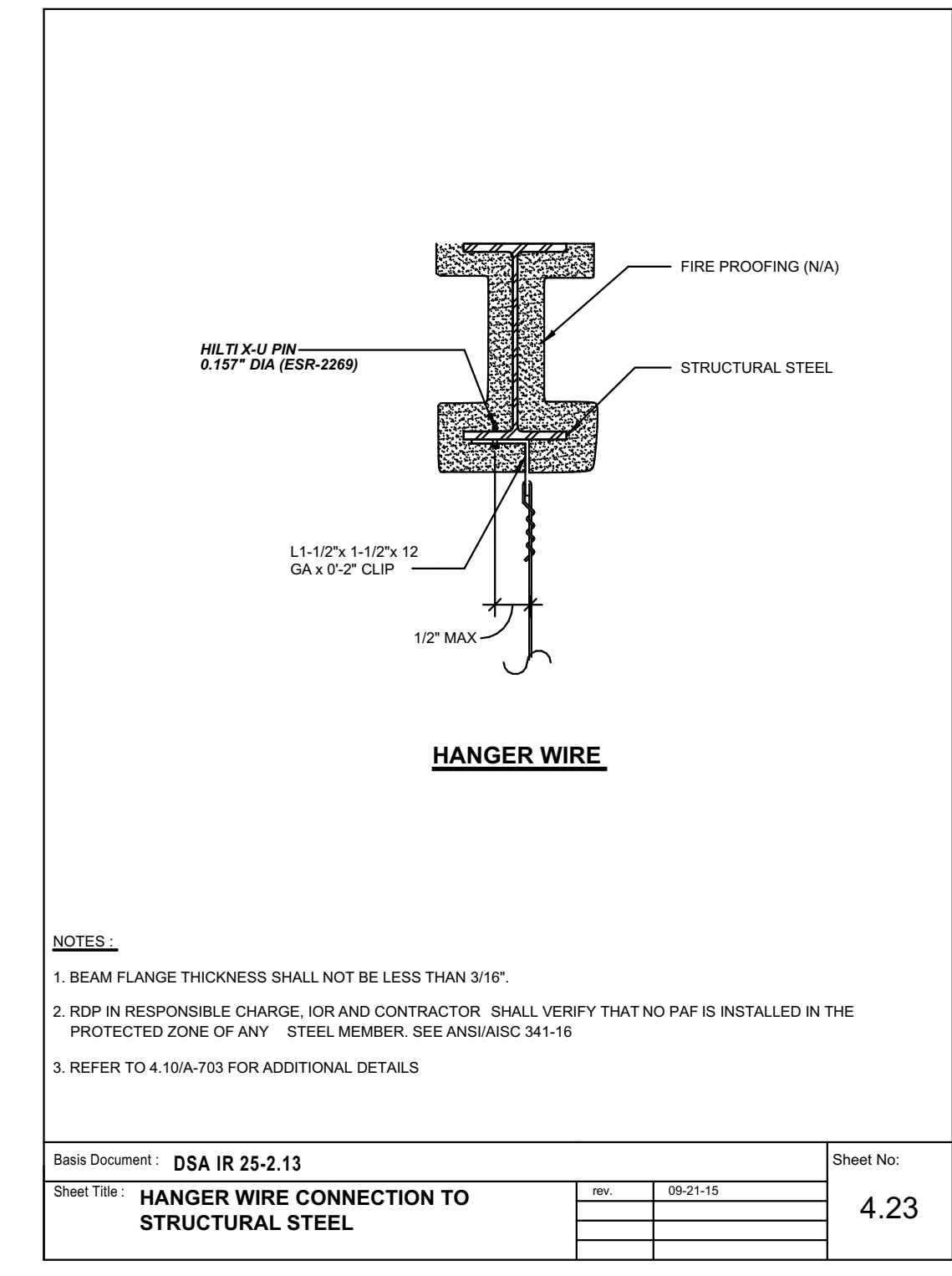
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Sheet No:

Sheet Title: COMPRESSION STRUT TABLE

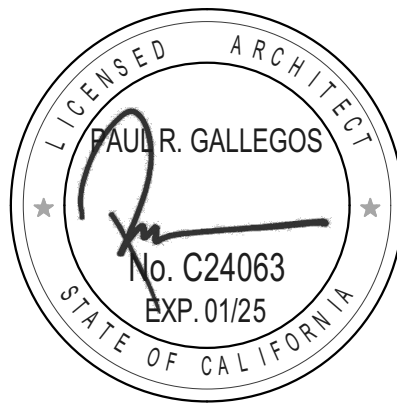
rev.	09-21-15
rev.	03-10-17

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MARK	DATE	DESCRIPTION

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MODEL FILE:
LUSD Technology Dept. Bldg_.pln

PLOT DATE:
12/21/2023

SHEET TITLE

ACOUSTICAL TILE CEILING DETAILS

A-702

BRACING WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16"
2. RDP IN RESPONSIBLE CHARGE, IOR, AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/ASCE 341-10
3. REFER TO 4.10A-703 FOR ADDITIONAL DETAILS

Basic Document : DSA IR 25-2.13

Sheet Title : BRACING WIRE CONNECTION TO STRUCTURAL STEEL

REV. 09-21-15

Sheet No: 4.33

9/14/2015 2:18:52 PM

STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE COMPRESSION STRUT	APPLICABLE DETAIL
STRUCTURAL STEEL	5.40 / A-703

Basic Document : DSA IR 25-2

Sheet Title : COMPRESSION STRUT CONNECTION TO STRUCTURE - CONNECTION MATRIX

REV. 09-21-15

Sheet No: 5.10

CHANNEL STRUT

TUBE STRUT

NOTES:

1. STRUCTURAL STEEL MEMBER SHALL NOT BE LESS THAN 3/16"
2. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/ASCE 341-10.
3. REFER TO 5.20 AND 5.30 FOR ADDITIONAL INFORMATION.

Basic Document : DSA IR 25-2

Sheet Title : STRUT CONNECTION TO STRUCTURAL STEEL

REV. 09-21-15

Sheet No: 5.40

CEILING JOIST

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16"
2. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/ASCE 341-10.
3. REFER TO 4.10A-703 FOR ADDITIONAL DETAILS

Basic Document : DSA IR 25-2

Sheet Title : CEILING JOIST CONNECTION TO STRUCTURAL STEEL

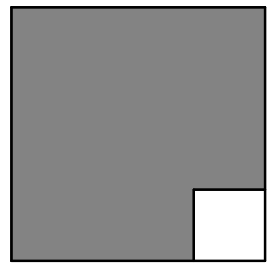
REV. 09-21-15

Sheet No: 5.10

1 CEILING JOIST

SCALE: 3" = 1'-0"

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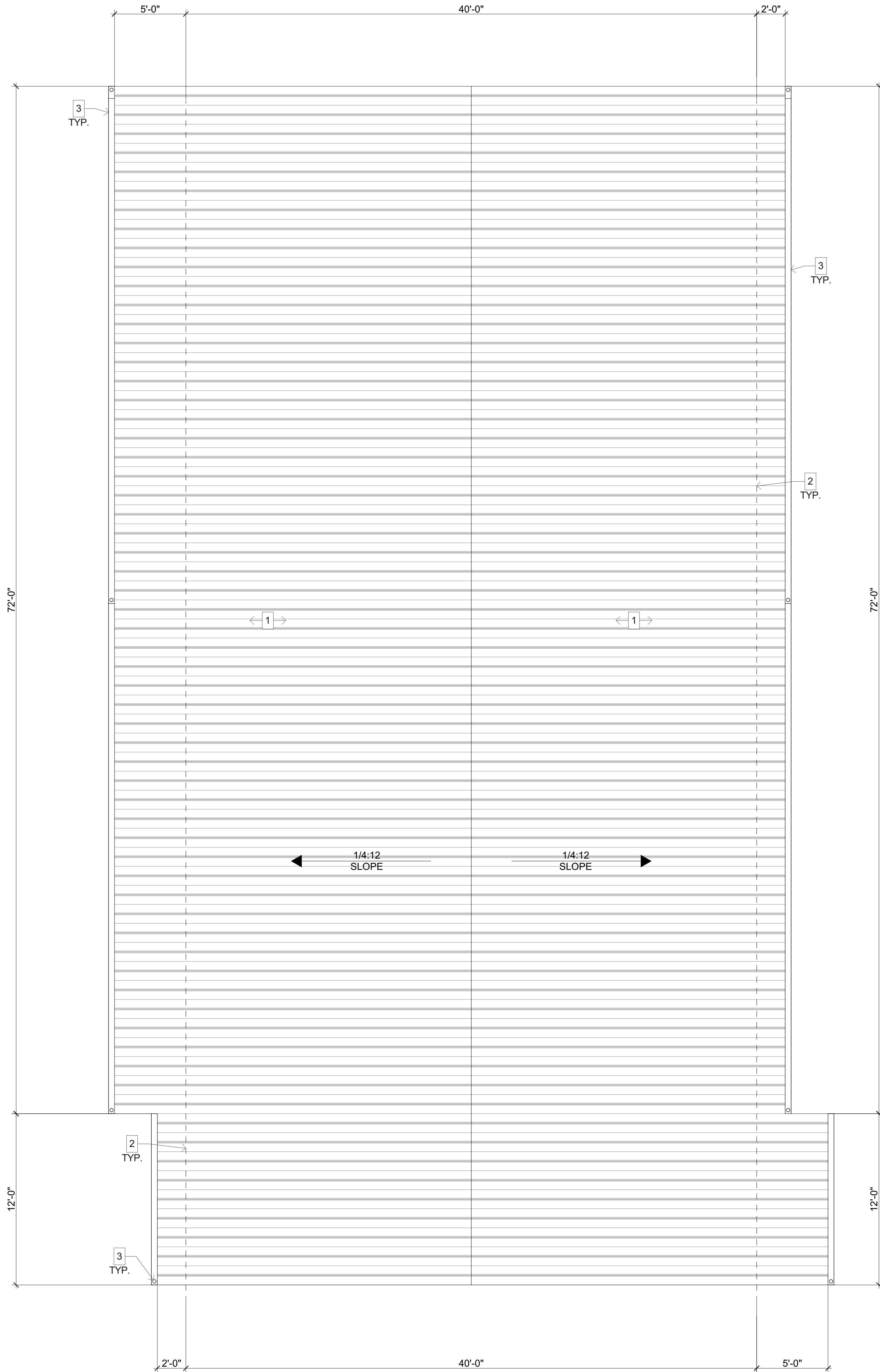
ACOITICAL TILE
CEILING DETAILS

A-703

1

ROOF PLAN

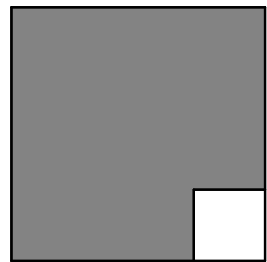
SCALE: 1/4" = 1'-0"



NOTES

- NEW 22 GA. STANDING SEAM METAL ROOFING. FASTEN PER ORIGINAL RELO BUILDING MANUFACTURER'S DRAWINGS AND DETAILS.
- LINE OF WALL BELOW.
- NEW 24 GA. PRE-FINISHED G.I. GUTTERS AND DOWNSPOUTS.

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GENERAL NOTES

- THE EXISTING ROOFING SHALL BE REMOVED FOR REPLACEMENT WITH NEW STANDING SEAM ROOFING.
- REFER TO ORIGINAL RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS FOR ALL REQUIRED ROOF FLASHING AT PERIMETERS AND MOD-LINES.

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SHEET TITLE

ROOF PLAN

A-801

DOOR SCHEDULE													
ROOM NUMBER	ROOM NAME	DOOR ID	DOOR TYPE	NOMINAL WIDTH	NOMINAL HEIGHT	LEAF THICKNESS	DOOR MATERIAL	DOOR FRAME MATERIAL	DETAIL		HDWR. SET	FIRE	REMARKS
									HEAD	JAMB			
100	RECEPTION	D001	A	3'-0"	7'-0"	1 3/4"	HM	HM	1/A-902	2/A-902	02	Unrated	
		D001	A	3'-0"	7'-0"	1 3/4"	HM	HM	1/A-902	2/A-902	02	Unrated	
100	RECEPTION	D002	A	6'-0"	14'-0"	3 1/2"	HM	HM	1/A-902	2/A-902	02	Unrated	
110	CUBICLE AREA	D003	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
113	CONFERENCE	D004	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
113	CONFERENCE	D005	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
112	DATAANALYST	D006	B	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
111	DATAANALYST	D007	B	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
102	BRIAN'S OFFICE	D008	B	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
101	ANDREW'S OFFICE	D009	B	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
108	RESTROOM	D010	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	04	Unrated	
109	RESTROOM	D011	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	04	Unrated	
107	CUST.	D012	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	05	Unrated	
106	WORK SPACE	D013	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	01	Unrated	
104A	SERVER (COLD)	D014	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	06	Unrated	
104B	SERVER (HOT)	D015	A	3'-0"	7'-0"	1 3/4"	SC WOOD	WD	5/A-902	6/A-902	06	Unrated	
105	STORAGE	D016	C	12'-0"	14'-0"	3 1/2"	HM	HM	1/A-902	2/A-902	03	Unrated	

DOOR LEGEND			
ELEVATION			
DOOR TYPE	A	B	C
NOMINAL SIZE (W X H)	3'-0"×7'-0"	3'-0"×7'-0"	6'-0"×7'-0"
QUANTITY	13	4	2
REMARKS			

FINISH SCHEDULE											
ROOM		FLOOR	BASE	WALLS					CEILING		REMARKS
NAME	NUMBER			ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4	WAINSCOT	MAT.	HEIGHT	
RECEPTION	100	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
ANDREW'S OFFICE	101	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
BRIAN'S OFFICE	102	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
BREAK ROOM	103	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
SERVER (COLD)	104A	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
SERVER (HOT)	104B	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
STORAGE	105	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
WORK SPACE	106	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
CUST.	107	F1	B1	FN1	FN1	FN1	FN1	-	C1	8'-4"	
RESTROOM	108	F1	B1	FN2	FN2	FN2	FN2	WT1	C1	8'-4"	
RESTROOM	109	F1	B1	FN2	FN2	FN2	FN2	WT1	C1	8'-4"	
CUBICLE AREA	110	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
DATAANALYST	111	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
DATAANALYST	112	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	
CONFERENCE	113	F1	B1	FN1	FN1	FN1	FN1	-	C2	8'-4"	

ROOM FINISH LEGEND			
CEILINGS	FLOOR	F1 LUXURY VINYL TILE	W1 GYPSUM DRYWALL - 5/8"
	C1 C2	5/8" GYPSUM BOARD ACOUSTICAL TILE CEILING (2X4)	WT1 FIBER - REINFORCED PLASTIC PANELS
FINISHES	WAINSCOT	FN1 PAINTED - EGGSHELL FN2 PAINTED - SEMI-GLOSS	B1 RUBBER WALL BASE B2 NONE

DOOR SCHEDULE REMARKS

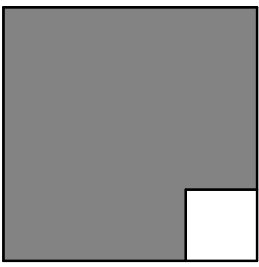
- DOOR ASSEMBLY SHALL BE LISTED / TESTED BY MANUFACTURER FOR A FIRE- RATED ASSEMBLY (AS SCHEDULED) AND SHALL BE SELF CLOSING PER CHAPTER 10 OF 2019 C.B.C.
- PANIC HARDWARE PROVIDED AT DOOR(S) PER SPECIFICATIONS.
- PROVIDE LOUVER AT BOTTOM OF DOOR(S).
- STOREFRONT SYSTEM
- DOOR SIDELIGHT SHALL BE TINTED PER SPECIFICATIONS.
- VISION PANES SHALL BE TINTED PER SPECIFICATIONS.

* SECURITY DOORS TO COMPLY WITH AB 3205 AND CBC 1010.1.11. DOORS SHALL INCLUDE LOCKS THAT ALLOW ROOMS WITH AN OCCUPANCY OF 5 OR MORE TO BE LOCKED FROM THE INSIDE.

GENERAL DOOR NOTES

- 'LABEL' SHALL MEAN 'FIRE DOOR ASSEMBLY' AS DEFINED IN 2019 C.B.C., SECTION 716.5. FIRE DOORS SHALL BE LABELED IN ACCORDANCE WITH CBC SECTION 716.5.7. FIRE DOOR FRAMES SHALL BE LABELED IN ACCORDANCE WITH CBC SECTION 716.5.7.
- ALL RATED DOORS TO BE POSITIVE LATCHING.
- ALL EXTERIOR DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF SPECIAL TOOLS, KNOWLEDGE, OR EFFORT.
- HARDWARE SHALL BE LEVER TYPE WITH A RETURN TO WITHIN 1/2" OF THE DOOR.
- THE ARCHITECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING REQUIRED DOOR AND FRAME DIMENSIONS AND HARDWARE MOUNTING HEIGHTS IN FIELD PRIOR TO ORDERING AND INSTALLING NEW MATERIAL.
- ALL HARWARE INDICATED IN SCHEDULE SHALL BE PROVIDED FOR DOORS. HARDWARE SHALL MEET THE REQUIREMENTS OF CBC 11B-404.2.7.
- DOOR JAMB AND HEAD CONDITIONS ARE DETAILED FOR THE MOST TYPICAL CONDITION. SIMILAR CONDITIONS MAY OCCUR AND SHALL BE TREATED IN A SIMILAR MANNER.
- DOORS/DOORWAYS AS PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH CBC SECTIONS 11B-404.2.7.
- THE CLEAR OPENING WIDTH FOR A DOOR SHALL BE 32" MINIMUM. FOR A SWINGING DOOR IT SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THERE SHALL BE NO PROJECTIONS INTO IT BELOW 34" AND 4" MAXIMUM PROJECTIONS INTO IT BETWEEN 34" AND 80" ABOVE THE FINISH FLOOR OR GROUND. CBC SECTION 11B-404.2.3
- HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSBILE DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE FINISH FLOOR OR GROUND, WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. CBC SECTION 11B-404.2.7
- THE FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.9
 - INTERIOR HINGED DOORS, SLIDING OR FOLDING DOORS, AND EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM.
 - REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE DSA AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N). THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGED OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.
 - THE FORCE REQUIRED FOR ACTIVATING ANY OPERABLE PARTS, SUCH AS LEVER HARDWARE, OR DISENGAGING OTHER DEVICES SHALL BE 5 POUNDS (22.2 N) MAXIMUM TO COMPLY WITH CBC SECTION 11B-309.4
- DOOR CLOSING SPEED SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.8
 - CLOSER SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - SPRING HINGES SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AND OPEN POSITION OF 70 DEGREES TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM.
- THRESHOLDS SHALL COMPLY WITH CBC SECTION 11B-404.2.5
- FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS.
- ALL EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SPM STANDARD 12-10-3, SECTION 12-10-302. 1) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE AND 2) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED, OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
- EXIT AND EXIT ACCESS DOORS FROM ROOMS HAVING AN OCCUPANT LOAD OF 50 OR MORE AND FROM CORRIDORS SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC OR FIRE EXIT HARDWARE PER CBC 1010.1.10.

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REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

MODEL FILE:

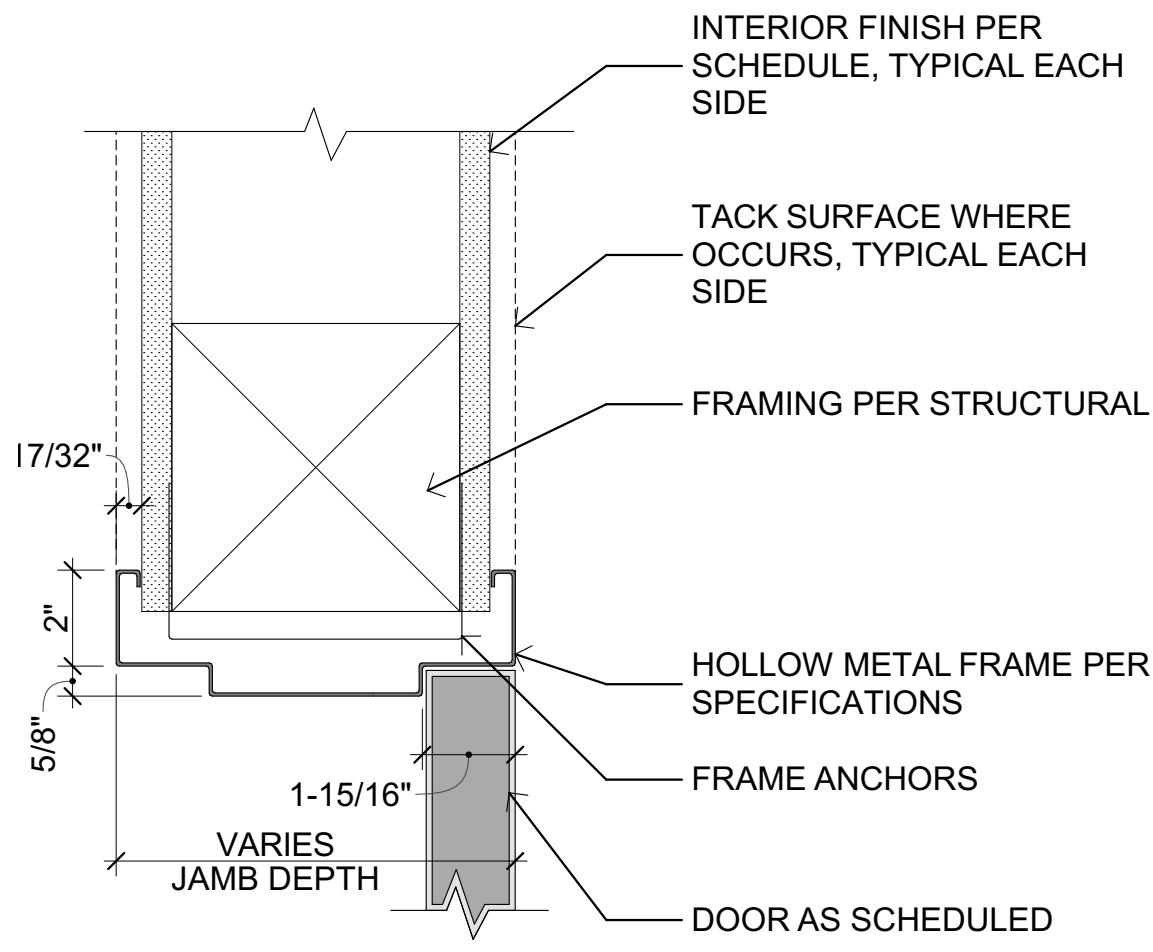
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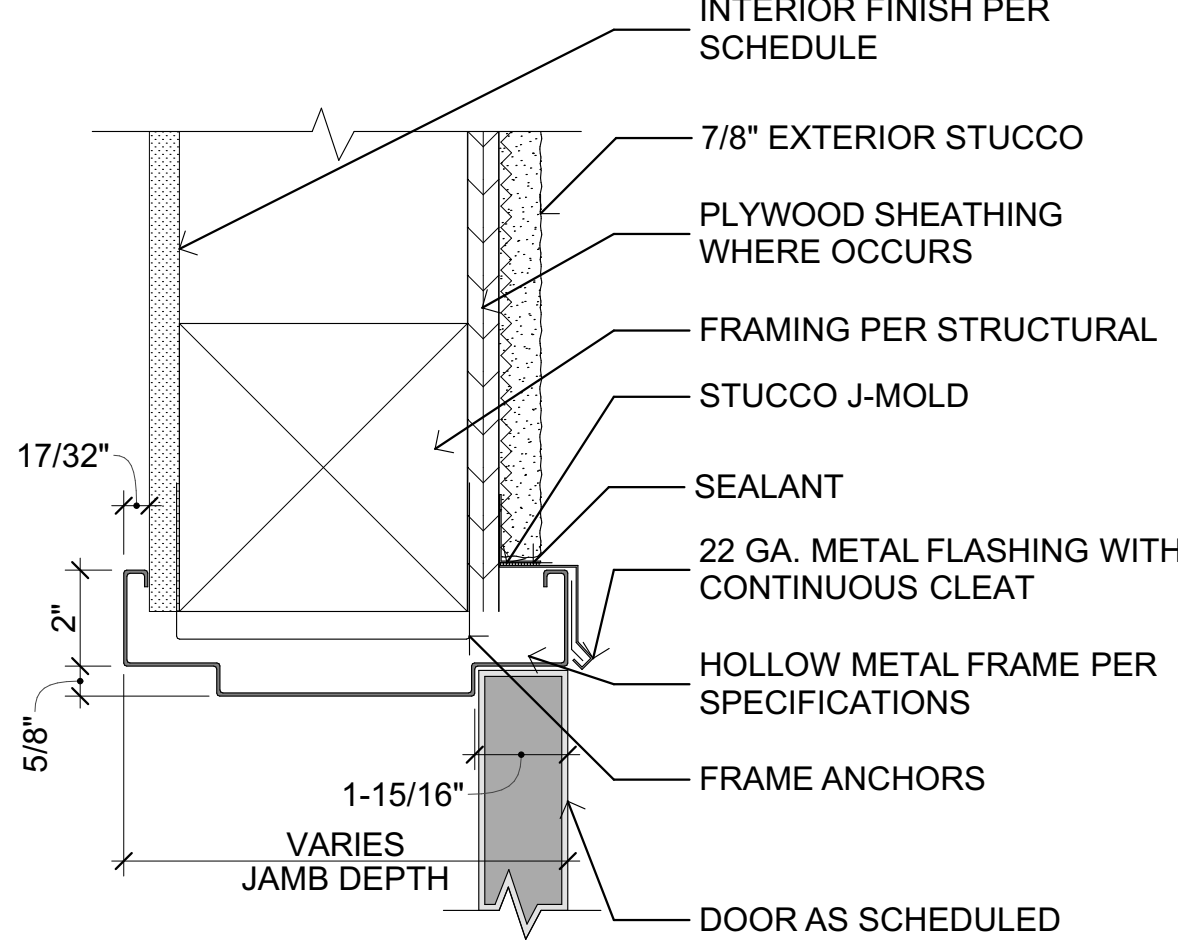
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DOOR & FINISH
SCHEDULES

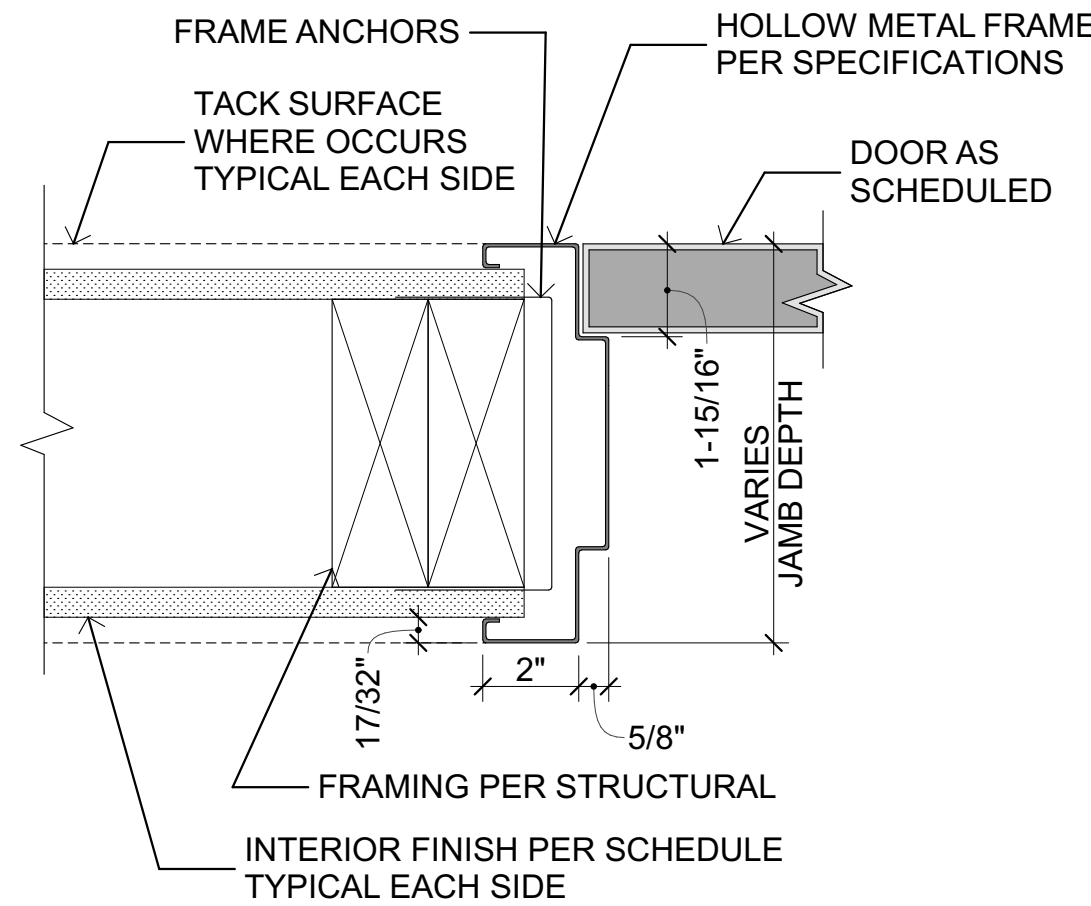
A-901



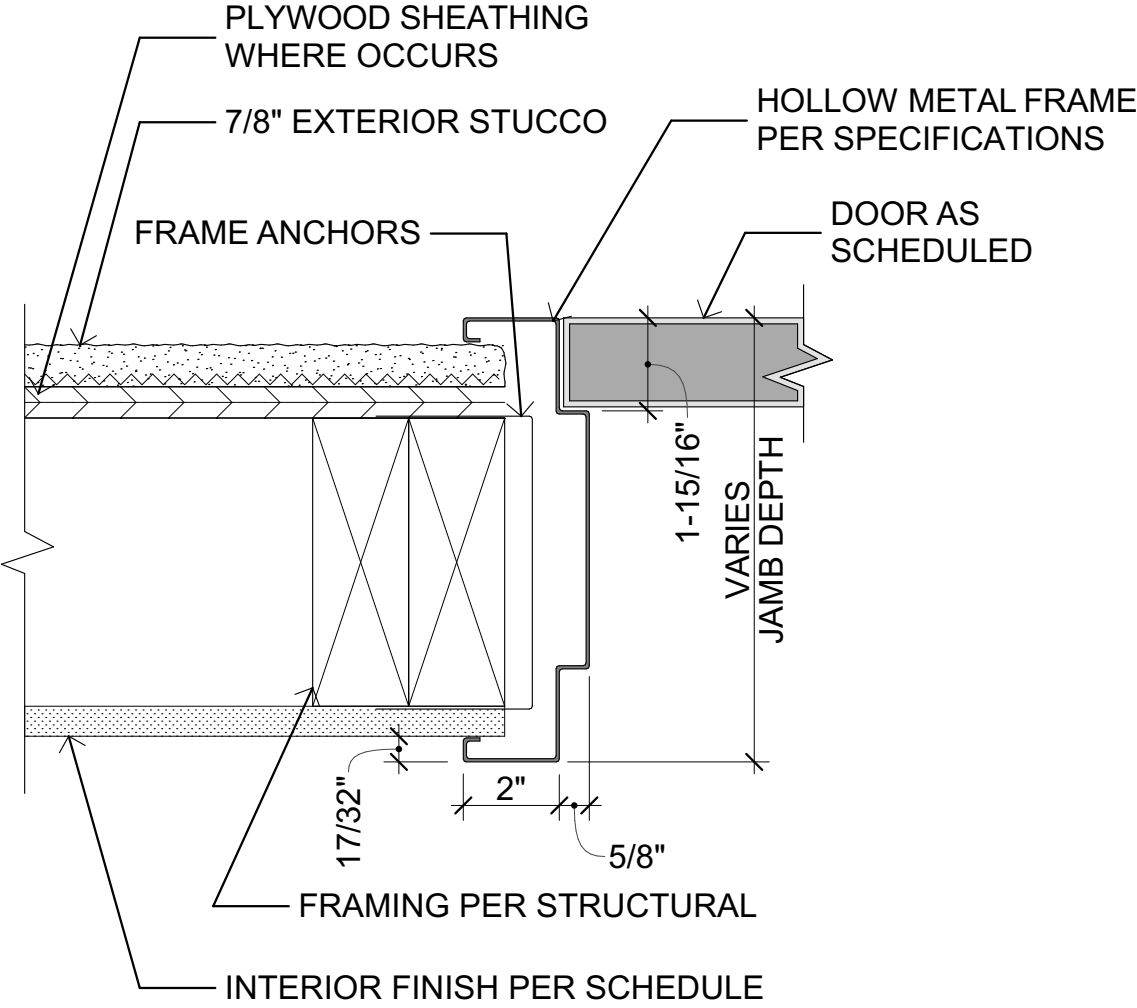
5 TYPICAL INTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



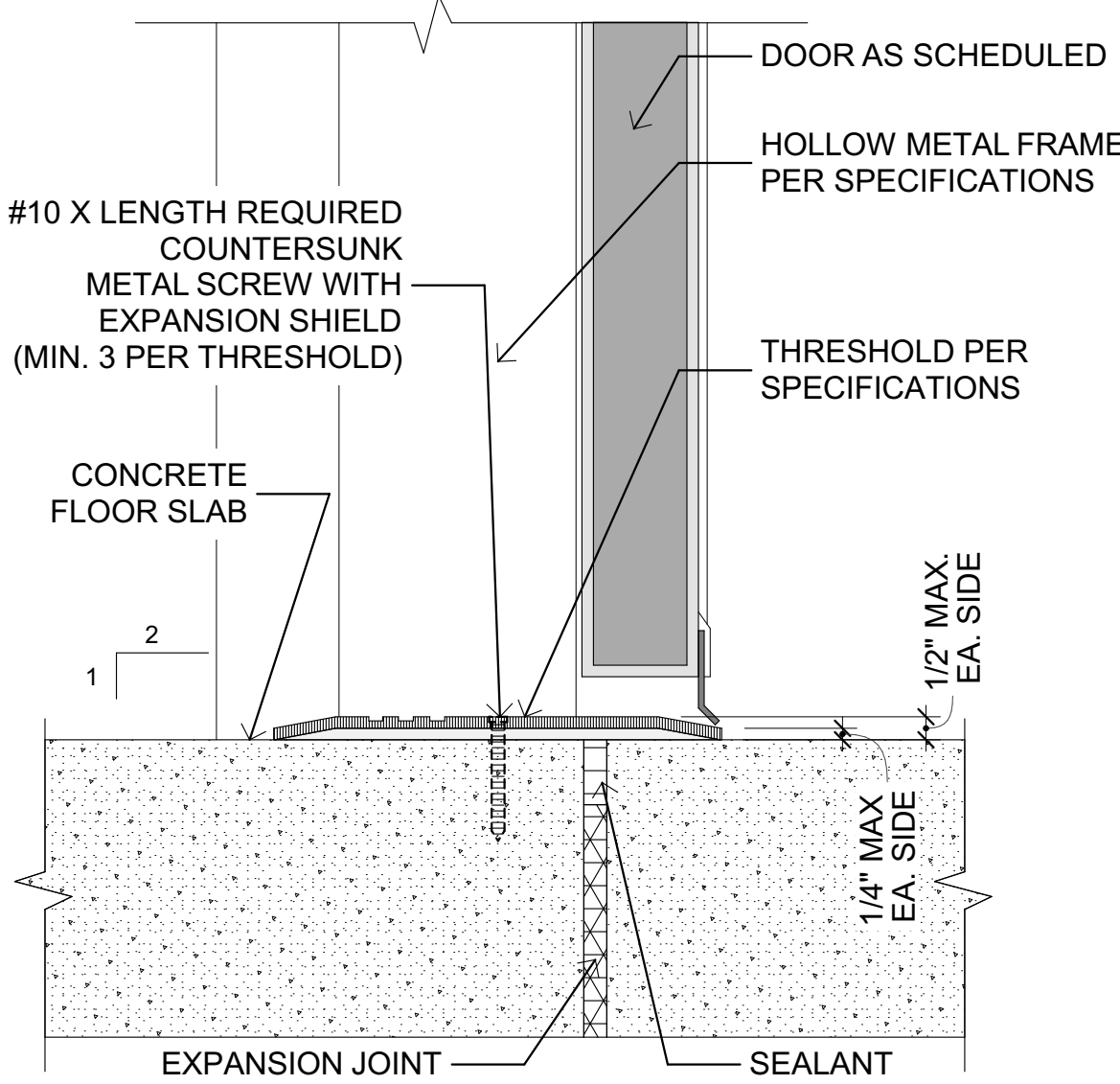
1 TYPICAL EXTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



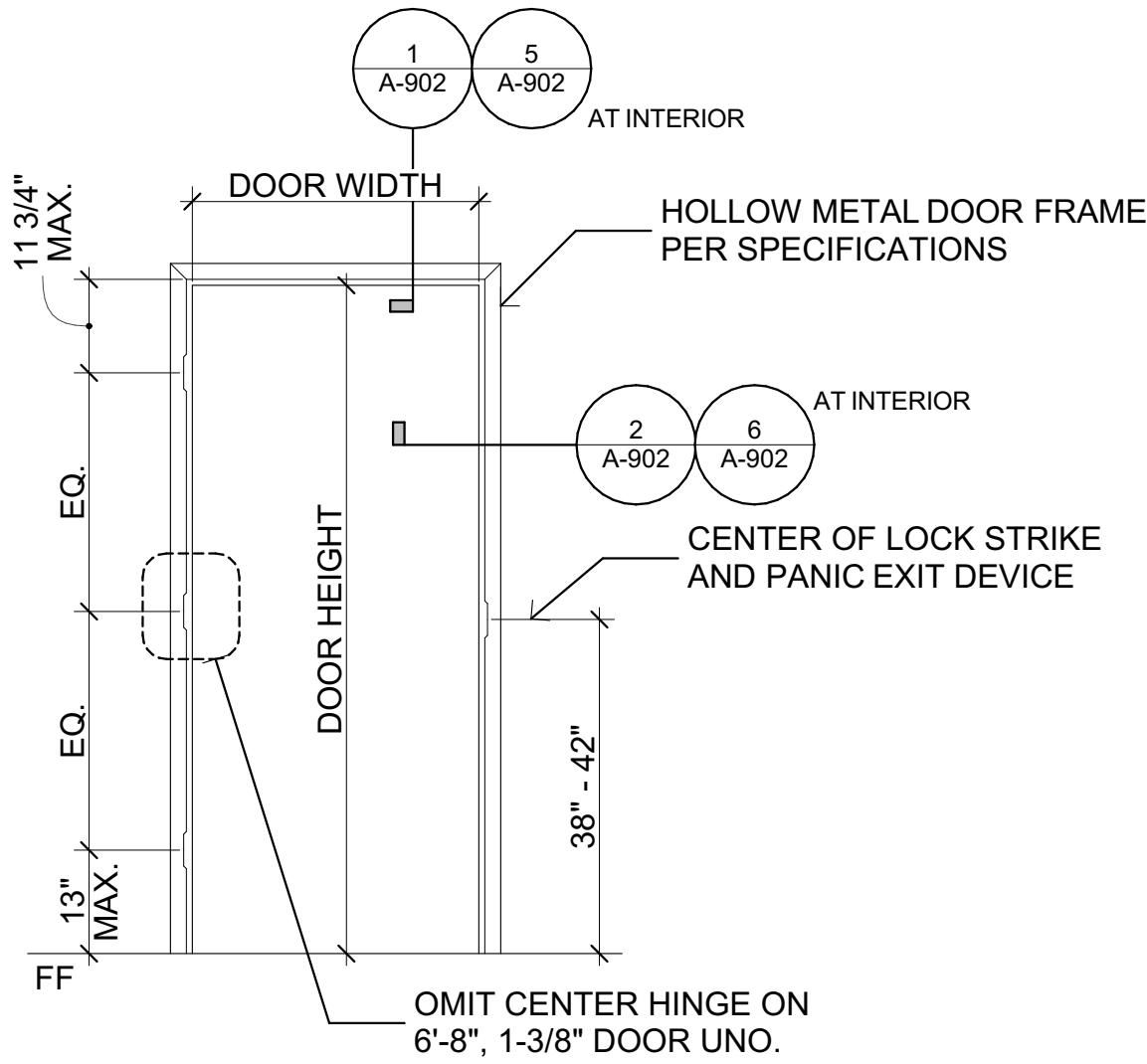
6 TYPICAL INTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



2 TYPICAL EXTERIOR DOOR JAMB
SCALE: 3" = 1'-0"

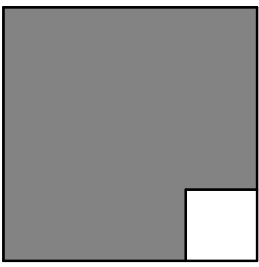


3 TYPICAL EXT. DOOR THRESHOLD
SCALE: 3" = 1'-0"



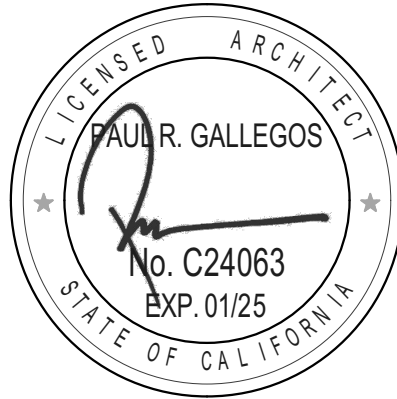
4 TYPICAL HARDWARE LOCATIONS
SCALE: 1/2" = 1'-0"

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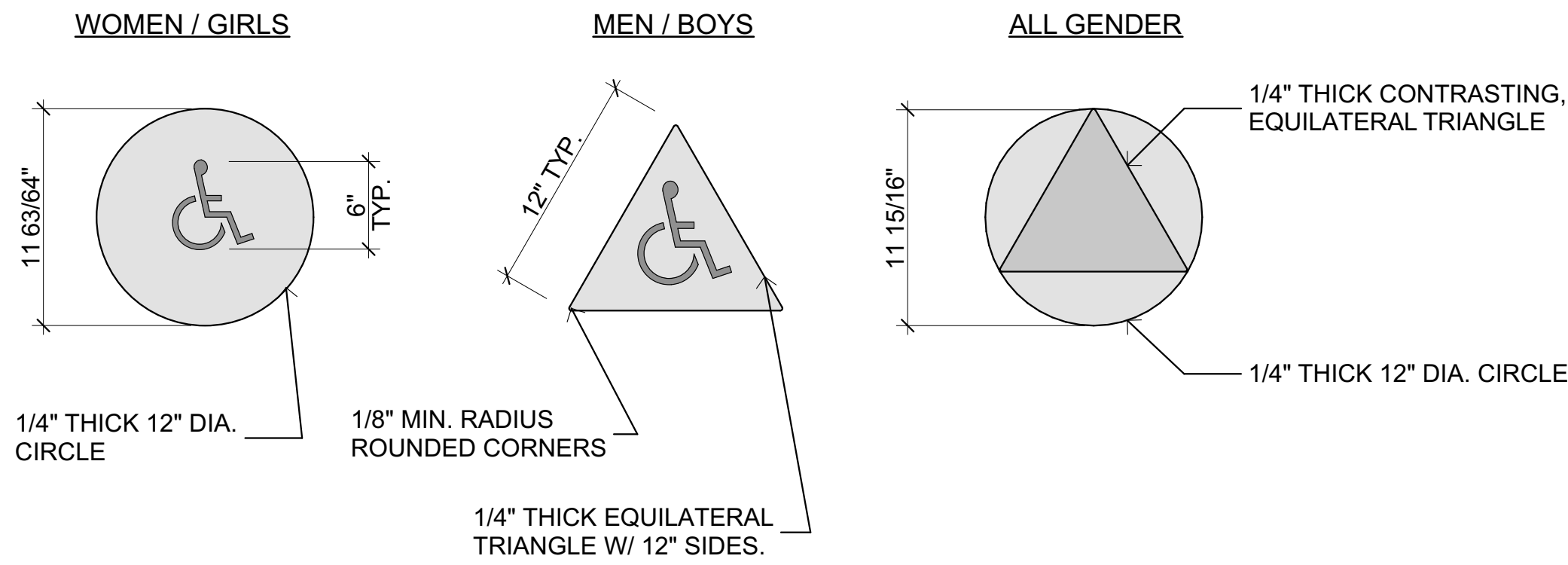
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PLOT DATE:
12/21/2023

SHEET TITLE

DOOR DETAILS

A-902



NOTE:

SYMBOLS SHALL BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.

SIGN SHALL BE CENTERED ON DOOR AND MOUNTED 60" A.F.F. TO THE CENTER OF THE SIGN.

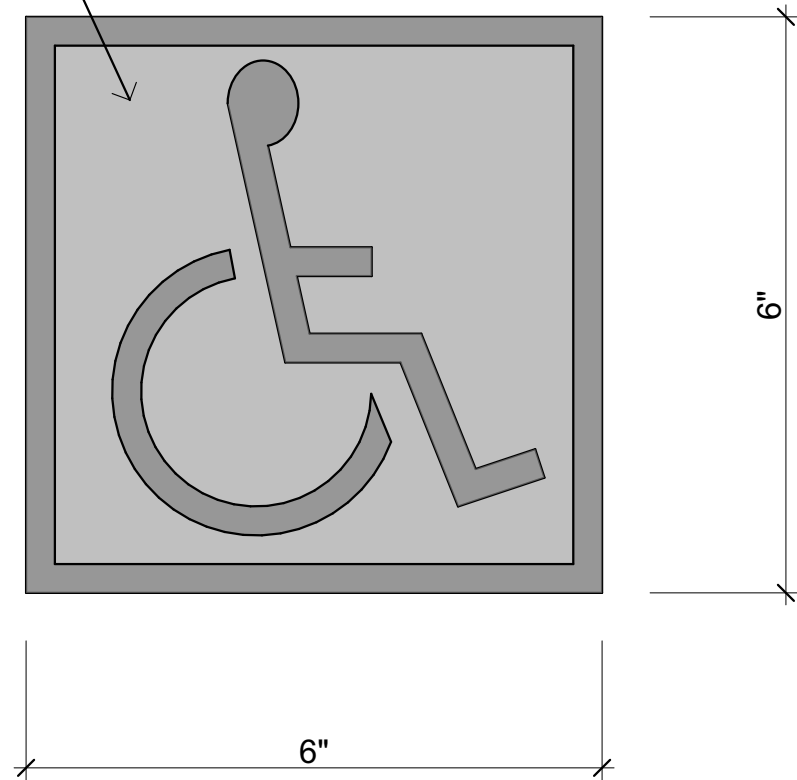
13 RESTROOM DOOR SIGNAGE

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

INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE COLOR SHALL BE EQUAL TO COLOR #15090 IN FED. STANDARD 595C. REFER TO PLANS FOR LOCATION OF I.S.A.

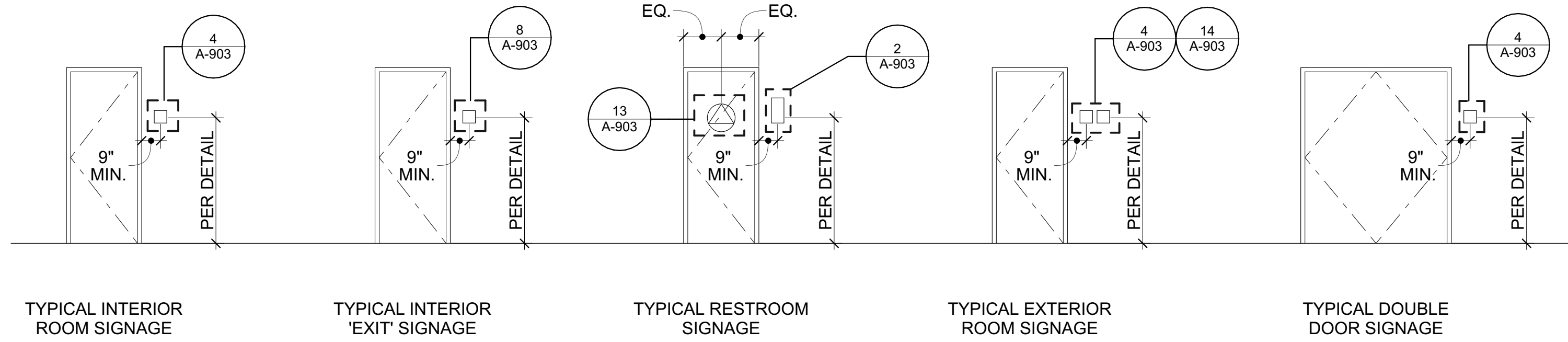
NOTE:

PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1.



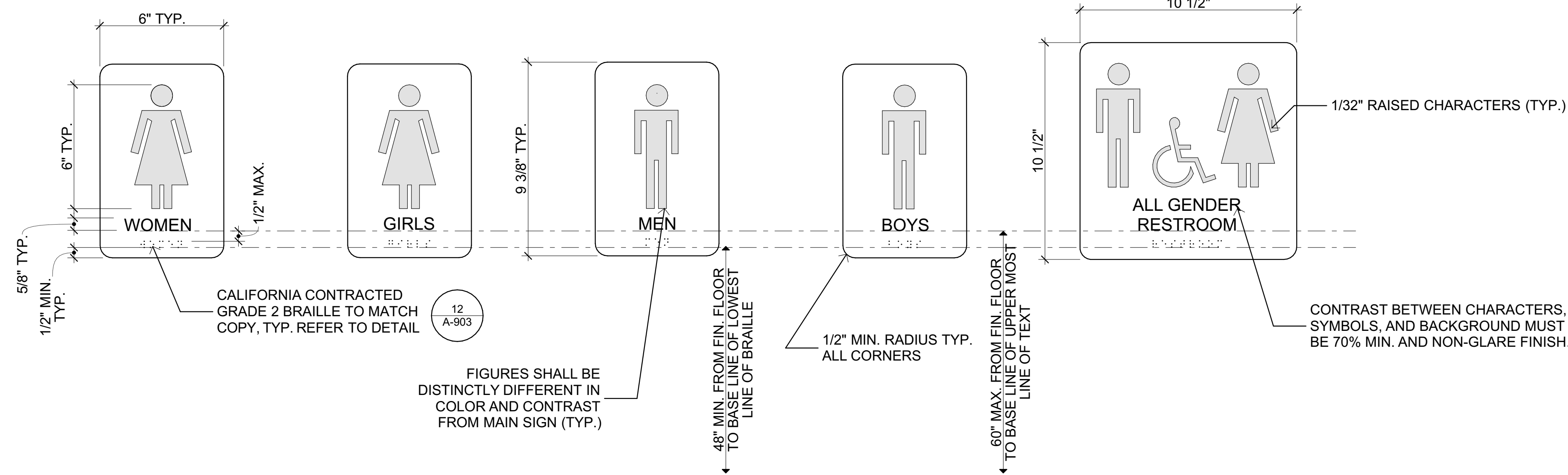
14 ISA

SCALE: 6" = 1'-0"



1 SIGNAGE ELEVATIONS

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

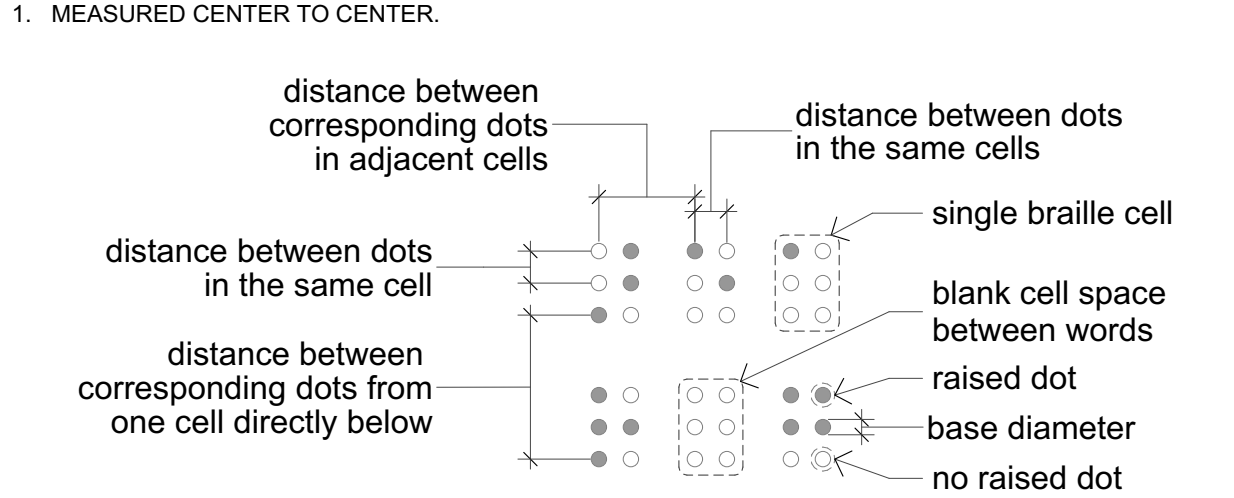


2 RESTROOM WALL SIGNAGE

SCALE: 3" = 1'-0"

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAX OF 2" HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703
4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE CHARACTER STROKE WIDTH MAX. AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
6. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.

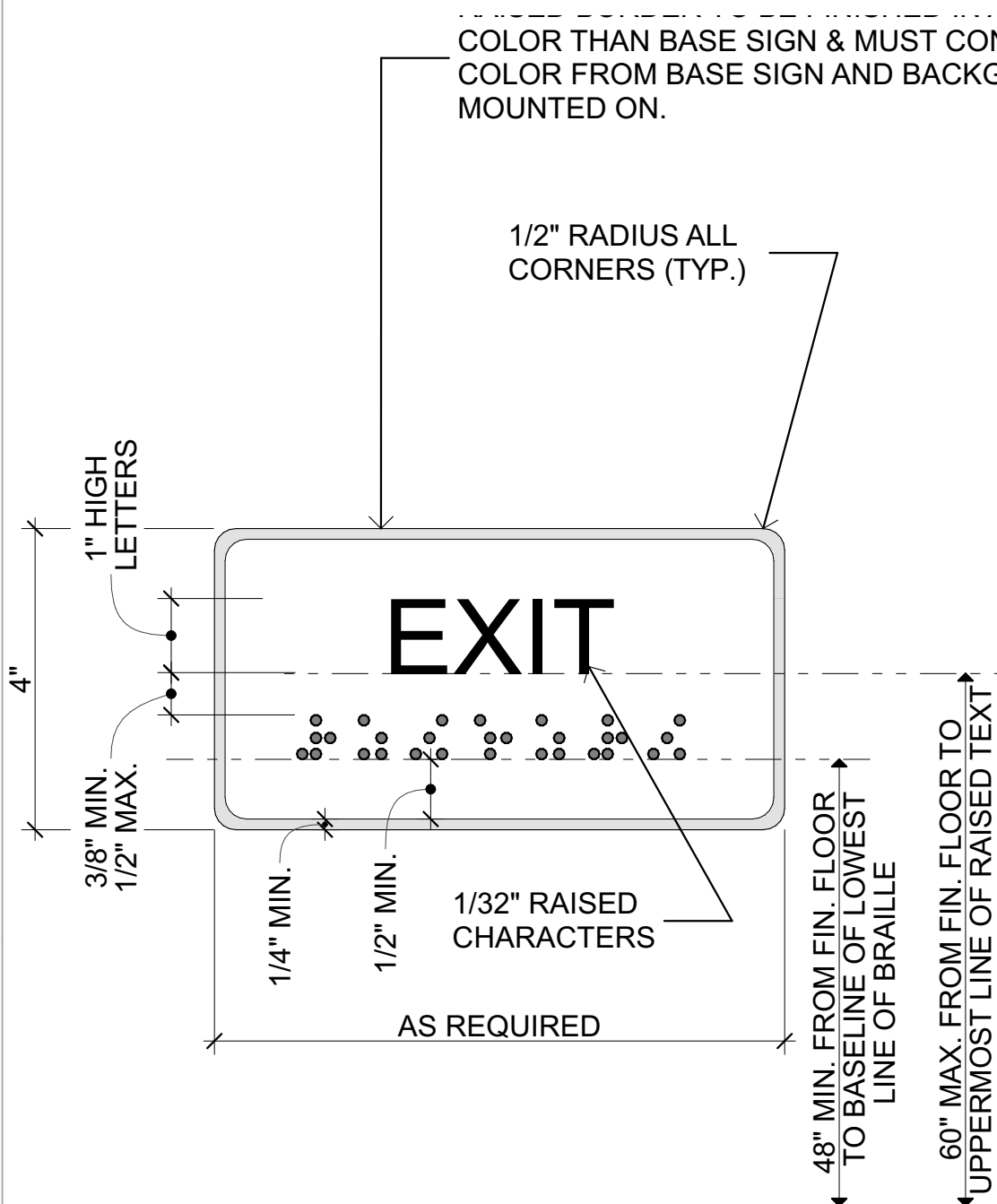
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 mm) to 0.063 (1.6 mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL*	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS*	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) to 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW*	0.395 (10 mm) to 0.400 (10.2 mm)



REQUIRED ROUNDED OR DOMED CONTRACTED CALIFORNIA BRAILLE (GRADE 2) DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS. SQUARE DOT NOT ACCEPTABLE.

12 BRAILLE

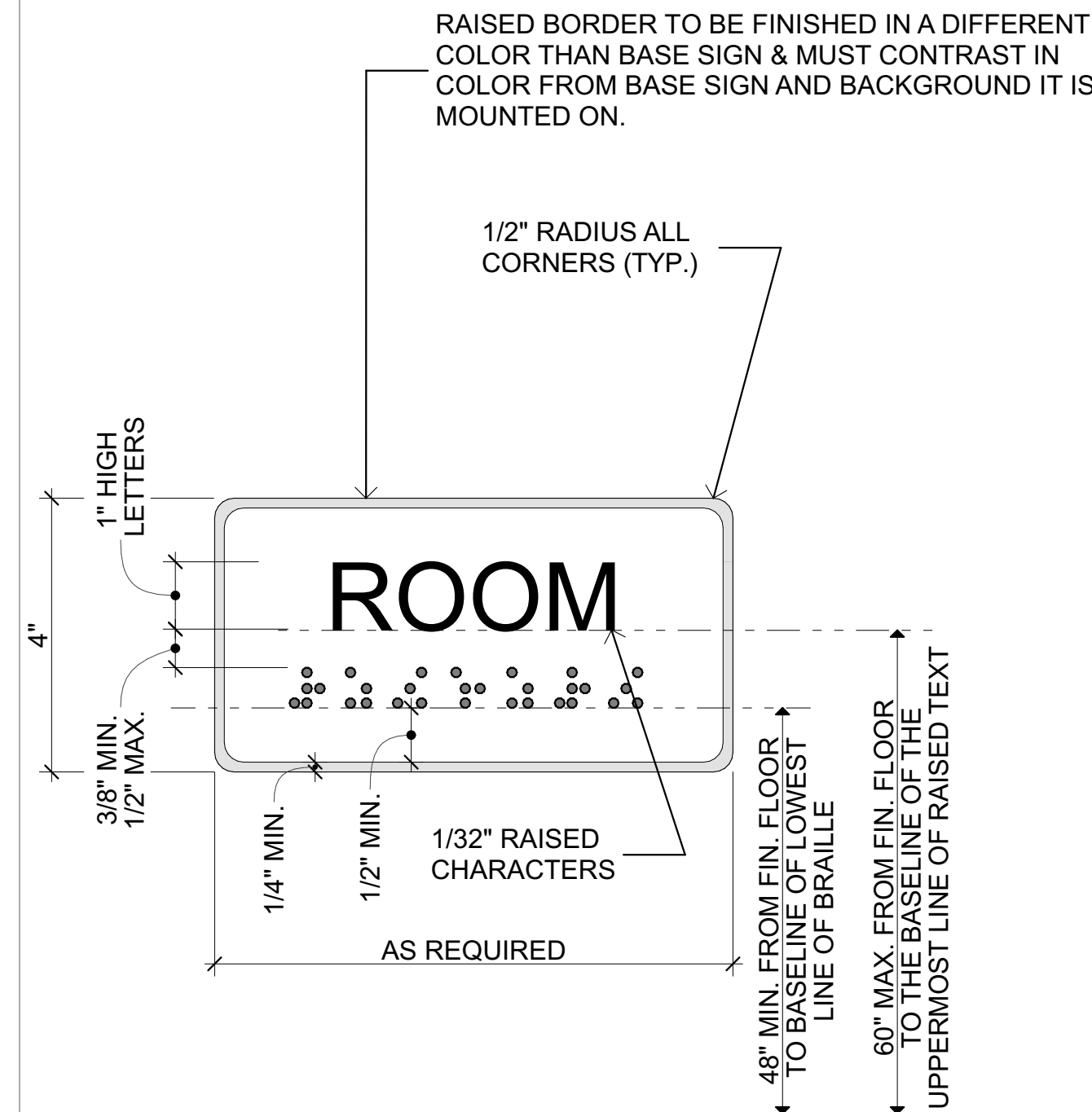
SCALE: 1" = 1'-0"



- NOTES:**
1. LETTER TYPE STYLE TO BE SANS SERIF PER SPECS.
 2. ALLOW UP TO 16 CHARACTERS FOR SIGN.
 3. PROVIDE DIE RAISED ALUMINUM PANEL SIGNS WITH RAISED BORDERS AT EXTERIOR LOCATIONS.
 4. PROVIDE RAISED ACRYLIC PANEL SIGNS WITH BORDER FRAMES AT INTERIOR LOCATIONS.
 5. ALL FASTNERS SHALL BE CONCEALED.
 6. COLOR TO BE SELECTED BY ARCHITECT.
 7. CONTRACTED CALIF. GRADE 2 BRAILLE SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 1/40" ABOVE BACKGROUND. REFER TO DETAIL.
 8. ALL BRAILLE SHALL BE CAPITALIZED AND INDICATED AS SUCH. WHERE INDICATED ON PLAN, TEXT SHALL READ 'EXIT ROUTE'.

8 EXIT SIGN

SCALE: 3" = 1'-0"

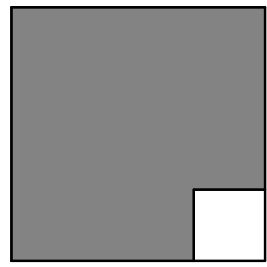


- NOTES:**
1. COORDINATE AND SCHEDULE SIGN VERBIAGE WITH ARCHITECT AND DISTRICT.
 2. LETTER TYPE STYLE TO BE SANS SERIF PER SPECS.
 3. ALLOW UP TO 16 CHARACTERS FOR SIGN.
 4. PROVIDE DIE RAISED ALUMINUM PANEL SIGNS WITH RAISED BORDERS AT EXTERIOR LOCATIONS.
 5. PROVIDE RAISED ACRYLIC PANEL SIGNS WITH BORDER FRAMES AT INTERIOR LOCATIONS.
 6. ALL FASTNERS SHALL BE CONCEALED.
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 8. CONTRACTED CALIF. GRADE 2 BRAILLE SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 1/40" ABOVE BACKGROUND. REFER TO DETAIL.
 9. ALL BRAILLE SHALL BE CAPITALIZED AND INDICATED AS SUCH.

4 ROOM NAME SIGNAGE

SCALE: 3" = 1'-0"

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PLOT DATE:
12/21/2023

SHEET TITLE

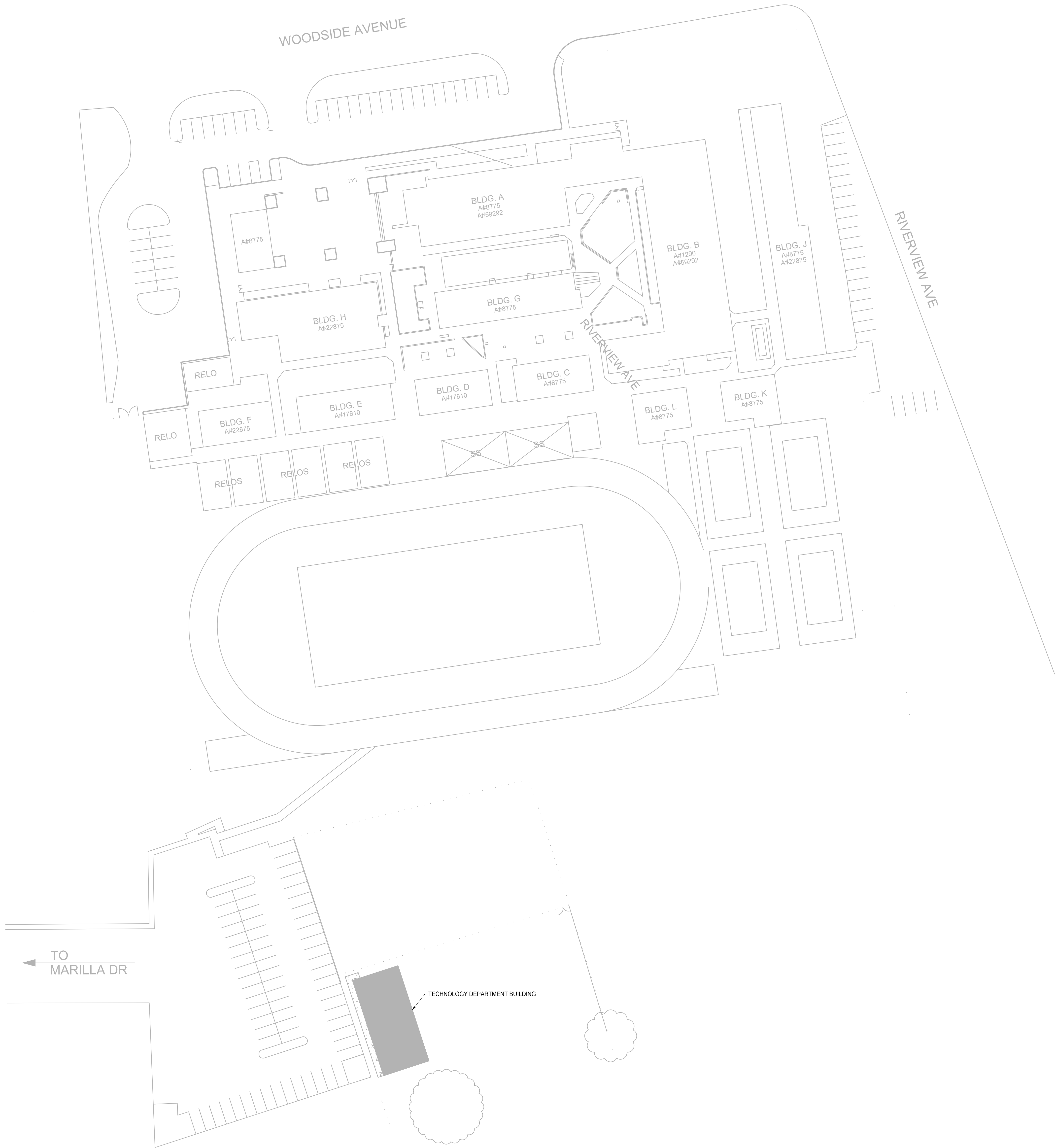
SIGNAGE DETAILS

A-903

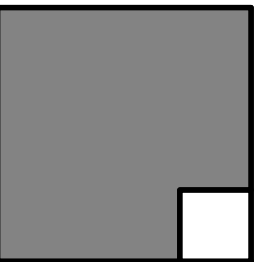
MECHANICAL LEGEND

- | SYMBOL | ABBREV | DESCRIPTION | ABBREV | DESCRIPTION | ABBREV | DESCRIPTION |
|--------|--------|--|--------|-------------------------------------|---------|---------------------------------|
| | POD | POINT OF DISCONNECTION | BEL | BELOW | ICW | INDUSTRIAL COLD WATER |
| | POC | POINT OF CONNECTION | BT | BUFFER TANK | IN W.C. | INCHES WATER COLUMN |
| | | REMOVE EXISTING EQUIPMENT OR PIPES SHOWN HATCHED | BTU | BRITISH THERMAL UNITS | IWR | INDUSTRIAL WASTE RECEPTOR |
| | | DUCT WITH ACOUSTIC DUCT LINER | BTUH | BRITISH THERMAL UNITS PER HOUR | KW | KILOWATT |
| | | DUCT SECTION - POSITIVE PRESSURE | CA | COMBUSTION AIR | LAT | LEAVING AIR TEMPERATURE |
| | | DUCT SECTION - NEGATIVE PRESSURE | CD | CEILING DIFFUSER | LBS | POUNDS |
| | | DUCT SECTION - EXHAUST | CFM | CUBIC FEET PER MINUTE | MA | MAKE-UP AIR |
| | SAD | SUPPLY AIR DIFFUSER | CH | CHILLER | MAX | MAXIMUM |
| | RAG | RETURN AIR GRILLE | CI | CAST IRON | MCA | MAXIMUM CIRCUIT AMPERAGE |
| | EAG | EXHAUST AIR GRILLE | CIRC | CIRCULATING | MCC | MOTOR CONTROL CENTER |
| | DLUC | DOOR LOUVER OR UNDERCUT | CLG | CEILING | MECH | MECHANICAL |
| | AP | ACCESS PANEL | CLR | CLEAR | MFR | MANUFACTURER |
| | | ROOM THERMOSTAT AND ZONE NUMBER/TEMPERATURE SENSOR | CMU | CONCRETE MASONRY UNIT | MIN | MINIMUM |
| | | ROOM CARBON MONOXIDE SENSOR | COMP | COMPRESSOR | MOCP | MAXIMUM OVER-CURRENT PROTECTION |
| | | ROOM CARBON DIOXIDE SENSOR | CONC | CONCRETE | MTD | MOUNTED |
| | SD | DUCT SMOKE DETECTOR | CONN | CONNECT OR CONNECTION | MLW | MAKE-UP WATER |
| | TP | TEST PORT | CONT | CONTINUATION | (N) | NEW |
| | | PIPE DOWN | CONTR | CONTRACTOR | NC | NORMALLY CLOSED |
| | | PIPE UP | CRAC | COMPUTER ROOM AIR CONDITIONING UNIT | N.I.C. | NOT IN CONTRACT |
| | | PIPE BRANCH-TOP CONNECTION | CT | COOLING TOWER | NO | NUMBER |
| | | PIPE BRANCH-BOTTOM CONNECTION | CU | CONDENSING UNIT | NO | NORMALLY OPEN |
| | | SHUT-OFF VALVE IN RISE OR DROP | DB | DRY BULB | NPSH | NET POSITIVE SUCTION HEAD |
| | CWS | CONDENSER WATER SUPPLY | DEGF | DEGREE FAHRENHEIT | NTS | NOT TO SCALE |
| | CWR | CONDENSER WATER RETURN | DN | DOWN | OA | OUTSIDE AIR |
| | CHWS | CHILLED WATER SUPPLY | DTR | DOWN THRU ROOF | PSI | POUNDS PER SQUARE INCH |
| | CHWR | CHILLED WATER RETURN | DWGS | DRAWINGS | PSIG | POUNDS PER SQUARE INCH GAUGE |
| | HHWS | HEATING HOT WATER SUPPLY | (E) | EXISTING | PVC | POLYVINYL CHLORIDE |
| | HHWR | HEATING HOT WATER RETURN | EA | EXHAUST AIR | QTY | QUANTITY |
| | HPS | HIGH PRESSURE STEAM (250 PSIG AND UP) | EAG | EXHAUST AIR GRILLE | RA | RETURN AIR |
| | BBD | BOILER BLOW DOWN | EAT | ENTERING AIR TEMPERATURE | RAG | RETURN AIR GRILLE |
| | CP | CONDENSATE PUMP DISCHARGE | EF | EXHAUST FAN | RAR | RETURN AIR REGISTER |
| | CD | CONDENSATE DRAIN | ELECT | ELECTRICAL | RF | RETURN FAN |
| | D | DRAIN | ELEV | ELEVATION | RFI | REQUEST FOR INFORMATION |
| | RL | REFRIGERANT LIQUID | ESP | EXTERNAL STATIC PRESSURE | RFP | REQUEST FOR PROPOSAL |
| | RS | REFRIGERANT SUCTION | ET | EXPANSION TANK | SA | SUPPLY AIR |
| | MOD | MOTOR OPERATED DAMPER | (ETR) | EXISTING TO REMAIN | SAG | SUPPLY AIR GRILLE |
| | MVD | MANUAL VOLUME DAMPER | FC | FAN COIL | SAR | SUPPLY AIR REGISTER |
| | SFD | COMBINATION SMOKE AND FIRE DAMPER | FLR | FLOOR | SF | SUPPLY FAN |
| | OBD | OPPOSED BLADE DAMPER | FPM | FEET PER MINUTE | SHT | SHEET |
| | GV | GATE VALVE | FT | FEET OR FOOT | SOV | SHUT OFF VALVE |
| | GLV | GLOBE VALVE | FUT | FUTURE | SS | STAINLESS STEEL |
| | CHV | CHECK VALVE | GA | GAUGE | ST | PLANT STEAM |
| | BV | BALL VALVE | GALV | GALVANIZED | STRUCT | STRUCTURAL |
| | BFV | BUTTERFLY VALVE | GI | GRAVITY INTAKE | TEMP | TEMPERATURE |
| | TDV | TRIPLE DUTY VALVE - CHECK / BALANCING / SHUT-OFF | GM | GAS METER | TYP | TYPICAL |
| | RED | REDUCER | GPH | GALLONS PER HOUR | UH | UNIT HEATER |
| | STR | STRAINER | GPM | GALLONS PER MINUTE | UNO | UNLESS NOTED OTHERWISE |
| | U | UNION | GR | GRADE | UTR | UP THRU ROOF |
| | PG | PRESSURE GAUGE | GR | | | |

M001



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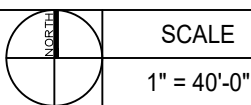
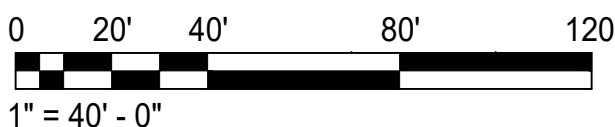
MODEL FILE:
LUSD Technology Dept. Bldg_.pin

PLOT DATE:
10/27/2023

SHEET TITLE

MECHANICAL
OVERALL SITE PLAN

MS100



SCALE

1" = 40'-0"

1

MECHANICAL OVERALL SITE PLAN

(E) PACKAGED AIR HANDLING UNITS																		
TAG NUMBER	MANUFACTURER & MODEL NO.	LOCATION	AIR FLOW CFM	MIN OSA CFM	SUPPLY FAN			ELECTRIC HEATING	DX COOLING				ELECTRICAL			MINIMUM EFFECIEENCY	APPROX. WEIGHT (LBS)	NOTES
					ESP (IN. WG.)	RPM	MOTOR HP		COOLING CAP (MBH)	EER	HEATING CAP (MBH)	COP	MOCP	MCA (AMPS)	V/PHHZ			
(E) AHU-1	BARO WH421-AUSVPXXX	EXT. SIDE WALL	1,400	180	0.3	1070	1/2	DISCONNECT AND REMOVE	41.5	8.7	41	3.0	50	34	208-230/1/60	8.7	560	
(E) AHU-2	BARO WH483-A04VPXXX	EXT. SIDE WALL	1,550	180	0.2	1070	1/3	DISCONNECT AND REMOVE	47	9.0	46	3.0	50	36	208-230/1/60	9	560	
(E) AHU-3	BARO WH421-AUSVPXXX	EXT. SIDE WALL	1,400	180	0.3	1070	1/3	DISCONNECT AND REMOVE	41.5	8.7	41	3.0	50	34	208-230/1/60	8.7	560	
GENERAL NOTES: 1. UNITS ARE EXISTING, WALL MOUNTED TO THE EXISTING PORTABLE BUILDING. 2. MINIMUM EFFICIENCY IS AT ARI STANDARD CONDITIONS. 3. EQUIPMENT IS EXISTING AND INTENDED TO BE RELOCATED TO SITE ALONG WITH PRE-FABRICATED BUILDING UNITS. 4. DISCONNECT AND REMOVE ELECTRIC RESISTANCE STRIP HEATERS FROM ALL EXISTING UNITS. PROVIDE UPDATED MANUFACTURER'S NAME PLATE FOR UL LISTING COMPLIANCE.																		
NOTES: ① xxx																		

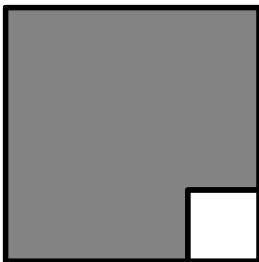
RELOCATED DUCTED SPLIT SYSTEM													
MARK	MANUFACTURER & MODEL NO.	SERVICE	TYPE	LOCATION	TOTAL COOLING @AHR1 (BTUH)	SEER (EER)	AIRFLOW CFM	ELECTRICAL DATA			REFRIGERANT	OPERATING WEIGHT (LBS)	REMARKS
								V/PH/Hz	MCA	MOCP			
(R) FC-1	CARRIER FV4CNB06	SERVER 104	DUCTED FAN COIL	SERVER 104	60,000	17.0 (13.5)	1,400	208-230/1/60	8.5	15	R410A	210	① ② ③ ④
(R) CU-1	CARRIER 24ACB760A320		OUTDOOR CONDENSER	OUTSIDE					37.3	60		350	① ③ ④
(R) FC-2	CARRIER FV4CNB06	SERVER 104	DUCTED FAN COIL	SERVER 104	60,000	17.0 (13.5)	1,400	208-230/1/60	8.5	15	R410A	210	① ② ③ ④
(R) CU-2	CARRIER 24ACB760A320		OUTDOOR CONDENSER	OUTSIDE					37.3	60		350	① ③ ④
REMARKS:													
①	PROVIDE UNIT WITH REFRIGERANT LINE SET. EXISTING THERMAL EXPANSION VALVE IS LOCATED WITHIN EXISTING INDOOR FAN COIL.							④	EQUIPMENT TO BE RELOCATED FROM EXISTING BUILDING AND REPURPOSED FOR CURRENT DESIGN. RECHARGE REFRIGERANT PER MANUFACTURER'S REQUIREMENTS AFTER FINAL DETERMINATION OF LINE LENGTHS.				
②	PROVIDE WITH LITTLE GIANT CONDENSATE PUMP WITH INTEGRATED OVERFLOW SENSOR FOR EQUIPMENT SHUTDOWN DURING PUMP FAILURES. SEE PIPING PLANS FOR CONDENSATE DRAIN ROUTING. CONDENSATE PUMP SHALL INTEGRATE WITH FAN COIL CONTROLS TO DISABLE AND ALARM THE UNIT IN CASE OF PUMP FAILURE.												
③	PROVIDE ALL WIRING PER ELECTRICAL REQUIREMENTS FROM CONDENSING UNIT TO FAN COIL UNIT. REFER TO ELECTRICAL PLANS FOR DETAILS. WIRING IS NOT PROVIDED BY THE MANUFACTURER, ELECTRICAL CONTRACTOR TO PROVIDE. REFER TO MANUFACTURER IOM FOR WIRE SIZING.												

EXHAUST FANS											
TAG NUMBER	MANUFACTURER & MODEL NO.	LOCATION	TYPE	CFM	ESP (IN. WG.)	FAN RPM	ELECTRICAL		DRIVE	APPROX. WEIGHT (LBS)	NOTES
							MOTOR HP	V/PHHZ			
EF 1	SQ-95-VG	REST. 108	INLINE	340	0.57	1,550	1/8	115/1/60	DIRECT	55	
NOTES: ① xxx											

CONDENSATE PUMP							
TAG NUMBER	MANUFACTURER & MODEL NO.	SERVICE	ELECTRICAL			APPROX. WEIGHT (LBS)	NOTES
			MOTOR HP	AMPS	V/PHHZ		
CDP-1	LITTLE GIANT #VCMA-15	CONDENSATE	1/50	1	115/1/60	7	5 FT. HEAD, 70 GPH, ROUTE DISCHARGE TO HIGHEST POINT. PROVIDE WITH SAFETY SWITCH AND TUBING
CDP-2	LITTLE GIANT #VCMA-15	CONDENSATE	1/50	1	115/1/60	7	5 FT. HEAD, 70 GPH, ROUTE DISCHARGE TO HIGHEST POINT. PROVIDE WITH SAFETY SWITCH AND TUBING

AIR DISTRIBUTION SCHEDULE									
MARK	MANUFACTURER & MODEL NO.	SERVICE	NECK SIZE	AIRFLOW (CFM)	FACE SIZE	CEILING TYPE	MODEL	FINISH	REMARKS
A	TITUS MCD	SUPPLY	6x6	0 - 100	24x24	LAY-IN	TITUS 300RL STEEL DOUBLE DEFLECTION, 3/4" BLADE SPACING	REFER TO ARCH.	4-WAY THROW UNLESS NOTED OTHERWISE. PROVIDE WITH SQUARE TO ROUND FLEXIBLE DUCT ADAPTER WHEN CONNECTED TO ROUND DUCTWORK.
			8x8	101 - 200					
			10x10	201 - 375					
			12x12	376 - 500					
B	TITUS PAR	RETURN/ EXHAUST	MATCH DUCT INLET	AS NOTED ON PLANS	24x24	LAY-IN	PERFORATED FACE CEILING GRILLE	REFER TO ARCH.	NECK SIZE TO MATCH INLET DUCT SIZE UNLESS NOTED OTHERWISE. PROVIDE HARD LID FRAME.
C	TITUS PAR	EXHAUST	MATCH DUCT INLET	AS NOTED ON PLANS	12x12	GYP. BD. (CEILING)	PERFORATED CEILING GRILLE	REFER TO ARCH.	-
D	TITUS 350RL	RETURN/ EXHAUST	SQUARE DUCT DIA. X DUCT DIA.	AS NOTED ON PLANS	NECK SIZE PLUS 2-INCHES	GYP. BD. (WALL)	SURFACE MTD. EXHAUST/RETURN REGISTER	REFER TO ARCH.	LOUVERED FACE, FIXED 35 DEGREE DEFLECTION 3/4" SPACED BLADE RETURN REGISTER.
E	TITUS 300RL	SUPPLY	12x6	AS NOTED ON PLANS	NECK SIZE PLUS 2-INCHES	OPEN	DUCT MTD. SUPPLY GRILLE	REFER TO ARCH.	ADJUSTABLE DOUBLE DEFLECTION 3/4" SPACED BLADE SUPPLY GRILLE.

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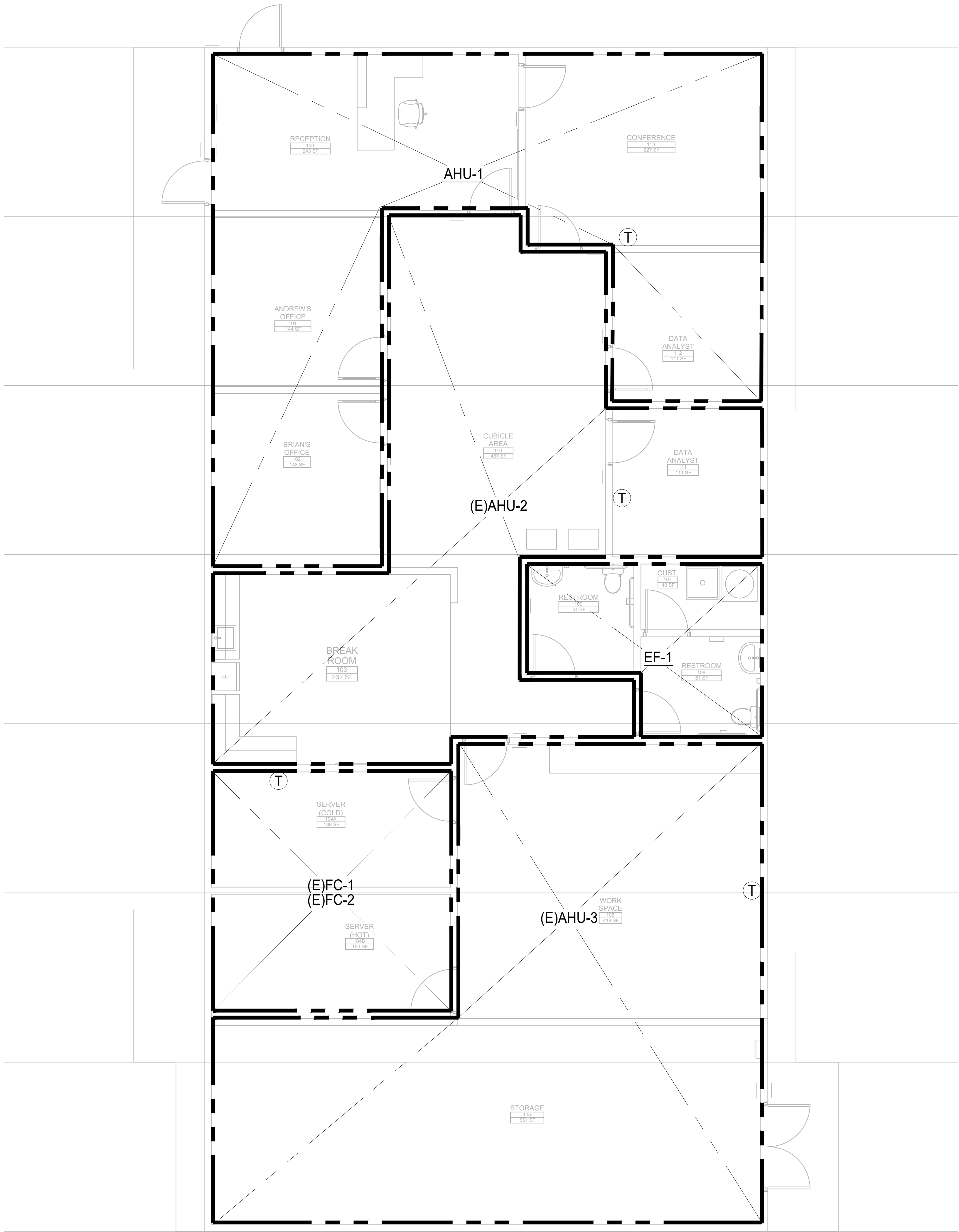
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SHEET TITLE

MECHANICAL
SCHEDULES

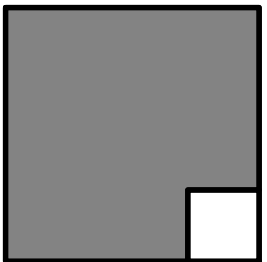
M002



MECHANICAL ZONING PLAN



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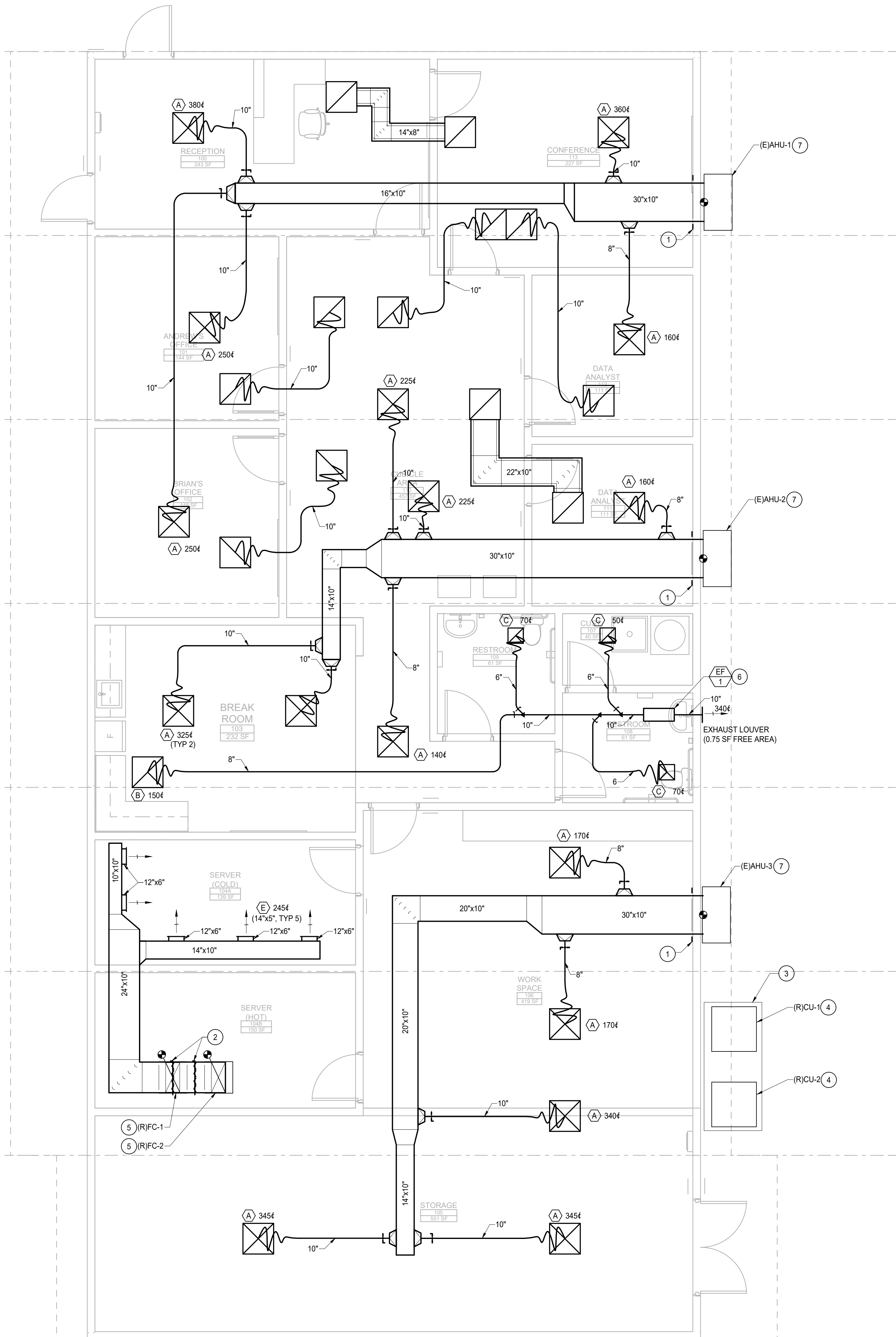
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MECHANICAL ZONING
PLAN

M200

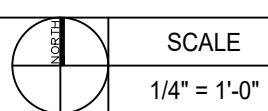
SHEET NOTES

- EXISTING RETURN AIR PENETRATION, THROUGH WALL, TO REMAIN. REFURBISH EXISTING RETURN GRILLE.
- PROVIDE BACK DRAFT DAMPER.
- PROVIDE NEW CONCRETE HOUSEKEEPING EQUIPMENT PAD TO EXTEND 6" PAST EDGE OF EQUIPMENT.
- RELOCATE EXISTING CONDENSING UNIT FROM EXISTING SERVER BUILDING.
- RELOCATE EXISTING FAN COIL FROM EXISTING SERVER ROOM. RE-USE EXISTING RETURN AIR PLENUM AND REFURBISH EXISTING RETURN GRILLE. MOUNT ON NEW, NEOPRENE, PADS.
- NEW INLINE EXHAUST FAN ABOVE CEILING. 24" x 24" ADJACENT ACCESS PANEL PER ARCH.
- EXISTING UNIT ATTACHED TO EXTERIOR WALL OF EXISTING RELOCATABLE BUILDING. TEST UNIT OPERATION, FUNCTIONALITY, AND REFRIGERANT CHARGE.



4' 2' 0' 4' 8'
1/4" = 1' - 0"

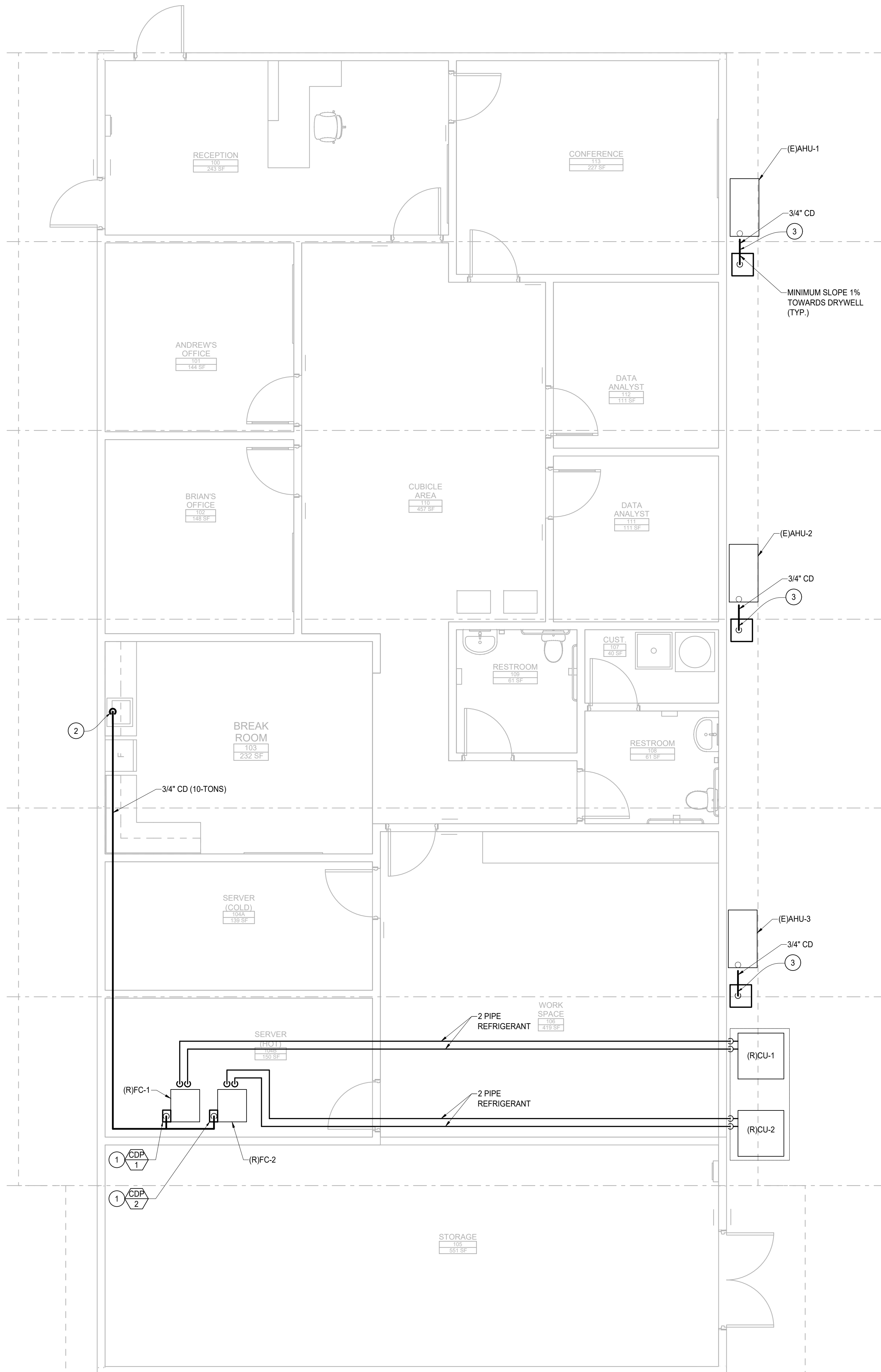
MECHANICAL FLOOR PLAN



2

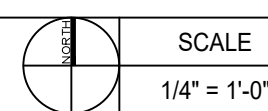
SHEET NOTES

- PROVIDE CONDENSATE PUMP. REFER TO MECHANICAL SCHEDULES.
- DISCHARGE CONDENSATE INTO SINK TAILPIECE.
- DISCHARGE AHU CONDENSATE TO NEW DRY WELL. REFER TO DETAIL 1/M501.



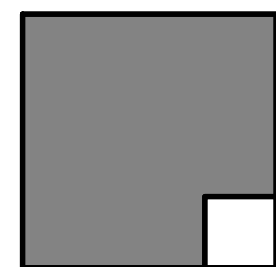
4' 2' 0' 4' 8'
1/4" = 1' - 0"

MECHANICAL PIPING PLAN



1

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12335 Woodside Ave. Lakeside CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
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PROJECT NO: 23-003

MODEL FILE:
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SHEET TITLE

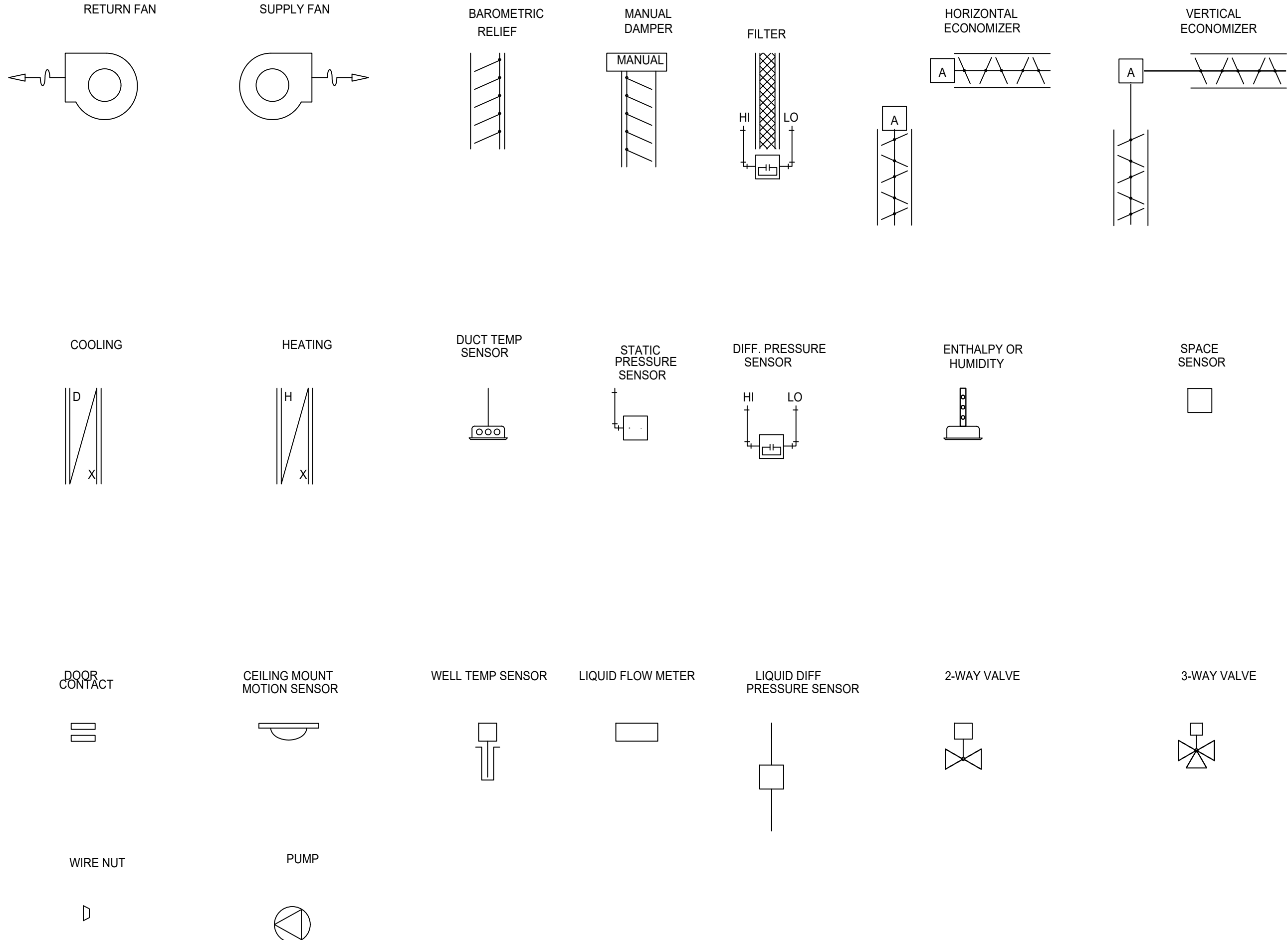
MECHANICAL FLOOR
AND PIPING PLAN

M201

COMMON ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AUTO	AUTOMATIC
AUX	AUXILIARY
BAI	BACNET ANALOG INPUT
BAO	BACNET ANALOG OUTPUT
BBi	BACNET BINARY INPUT
BBO	BACNET BINARY OUTPUT
Bi	BINARY INPUT
BO	BINARY OUTPUT
C	COMMON
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
COND	CONDENSER
CW	CONDENSER WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DA	DISCHARGE AIR
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
EA	EXHAUST AIR
EF	EXHAUST FAN
EVAP	EVAPORATOR
F	FAHRENHEIT
FCU	FAN COIL UNIT
HOA	HAND-OFF/AUTO
HP	HEAT PUMP
HRU	HEAT RECOVERY UNIT
HTEX	HEAT EXCHANGER
HW	HOT WATER
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTDOOR AIR
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
SP	STATIC PRESSURE
TEMP	TEMPERATURE
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VAVTU	VARIABLE AIR VOLUME TERMINAL UNIT
VVT	VARIABLE VOLUME & TEMPERATURE
W/	WITH
W/O	WITHOUT
WSHP	WATER SOURCE HEAT PUMP

SYMBOL LEGEND



GENERAL INFORMATION

COMMUNICATION BUS SPECIFICATION

1. A 24 AWG 2-CONDUCTOR SHIELDED-STRANDED CABLE (PLENUM RATED AS REQUIRED) MUST BE DAISY CHAINED FROM CONTROLLER TO CONTROLLER. IT SHOULD BE COLOR CODED (RED, BLACK, WHITE).

2. THE COMMUNICATION CABLE OPERATES AT UP TO 5 VDC. VERIFY WITH THE LOCAL CODE AUTHORITY AND SPECS REGARDING CONDUIT REQUIREMENTS.

3. NO "T" TAP OR "STAR" TYPE CONNECTIONS ARE PERMITTED.

4. TERMINATE THE SHIELDS ON THE DESIGNATED TERMINAL AT EACH DEVICE.

5. 30 CONTROLLERS MAXIMUM PER COMMUNICATION BUS SEGMENT. 60 CONTROLLER'S MAXIMUM PER NETWORK ROUTER.

6. A REPEATER IS REQUIRED EVERY 200 FT. OR 30 DEVICES. MAXIMUM OF 4 REPEATERS PER BUS FOR A TOTAL OF 10,000 FT.

POWER TO VVT AND VAV DAMPER ACTUATORS/CONTROLLERS

1. EACH ZONE REQUIRES A 24 VAC, 40 VA TRANSFORMER (MORE IN SOME CASES DEPENDING ON THE VALVE OR ELECTRIC HEATER REQUIREMENTS)

2. IT IS RECOMMENDED THAT EACH ZONE HAVE ITS OWN TRANSFORMER, HOWEVER ZONES MAY BE GROUPED UP TO 100 VA AND STILL REMAIN IN UL CLASS 2 CONFORMANCE.

3. BE CAREFUL OF VOLTAGE DROP. THE DAMPER WILL OPERATE IN A POWER RANGE OF 22 TO 26 VAC. THE DAMPER WILL NOT OPERATE AT VOLTAGES LESS THAN 22 VAC.

GENERAL NOTES

1. THE 2 CONDUCTOR COMMUNICATION CABLE AND SENSOR CABLES MUST ALWAYS BE IN A SEPARATE JACKET FROM ONE ANOTHER. NEVER RUN THE SE CABLES IN THE SAME CONDUIT AS, OR BUNDLE THEM WITH, AC POWER WIRING OF ANY VOLTAGE. DO NOT STRAP THESE CABLES ALONG ANY CONDUITS THAT CONTAIN AC POWER WIRING OF ANY VOLTAGE. DO NOT RUN THESE CABLES IN RINGS OR CONDUIT WITH FIRE, LIFE, SAFETY, SECURITY, NETWORK, TELEPHONE, POWER, OR OTHER WIRING. WHEN RUNNING COMMUNICATION AND SENSOR WIRING PARALLEL TO OTHER CABLING OR CONDUIT MAINTAIN A 12 IN. DISTANCE.

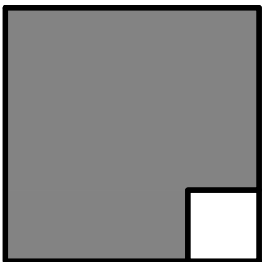
2. ETHERNET AND/OR INTERNET CONNECTION TO I-VU ARE SUPPLIED AND MAINTAINED BY BUILDING OWNER/OPERATOR.

INSTALLATION COORDINATION NOTES

1. INSTALLER SHALL COORDINATE ALL POWER AND DATA CONNECTION REQUIREMENTS WITH THE GC ONSITE.

2. INSTALL ALL COMPONENTS IN ACCORDANCE WITH THE SPECIFICATION, APPLICABLE CODES AND MANUFACTURER'S LITERATURE.

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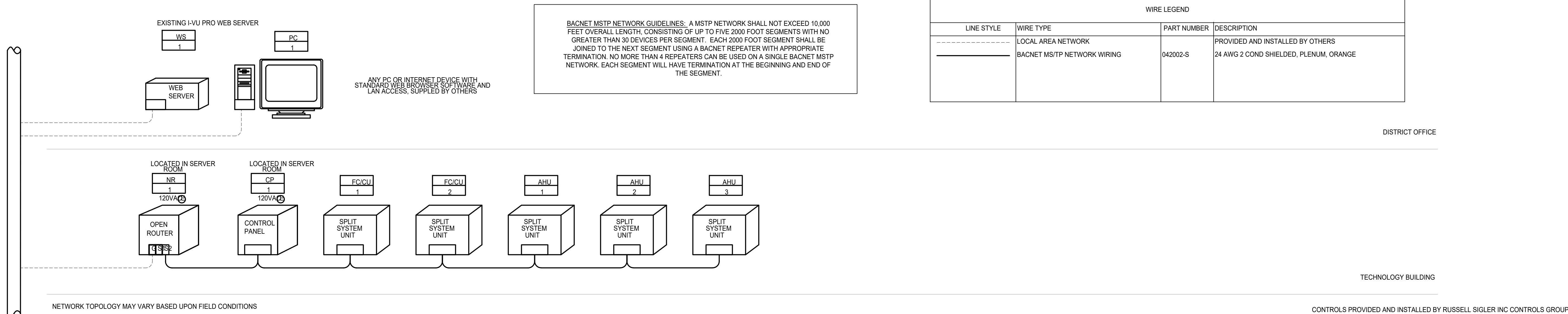
CONTROLS LEGEND

M400

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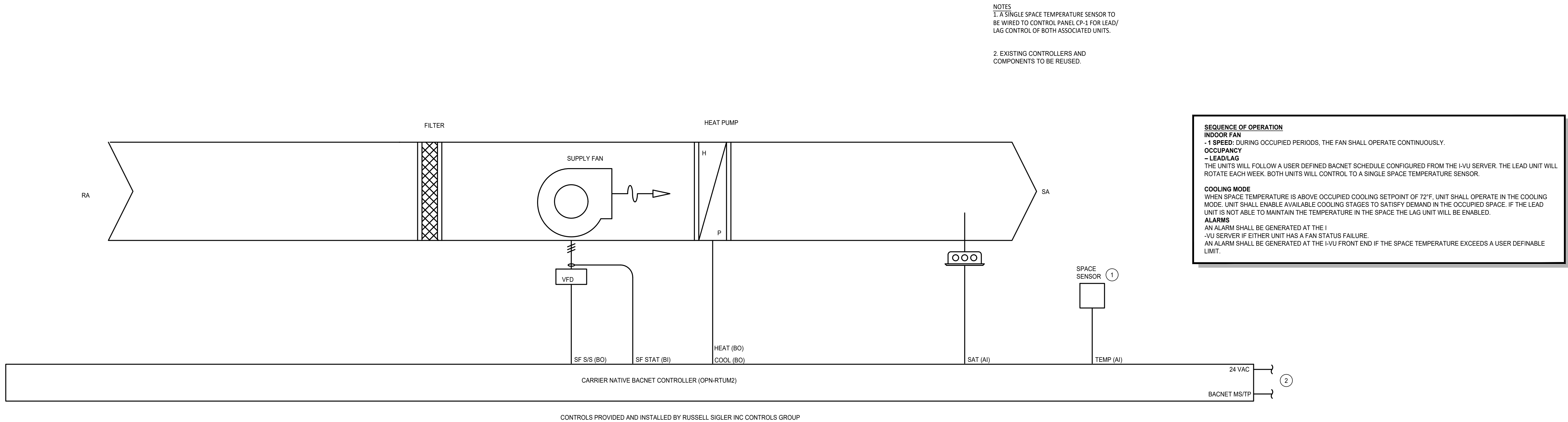
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BACS RISER DIAGRAM

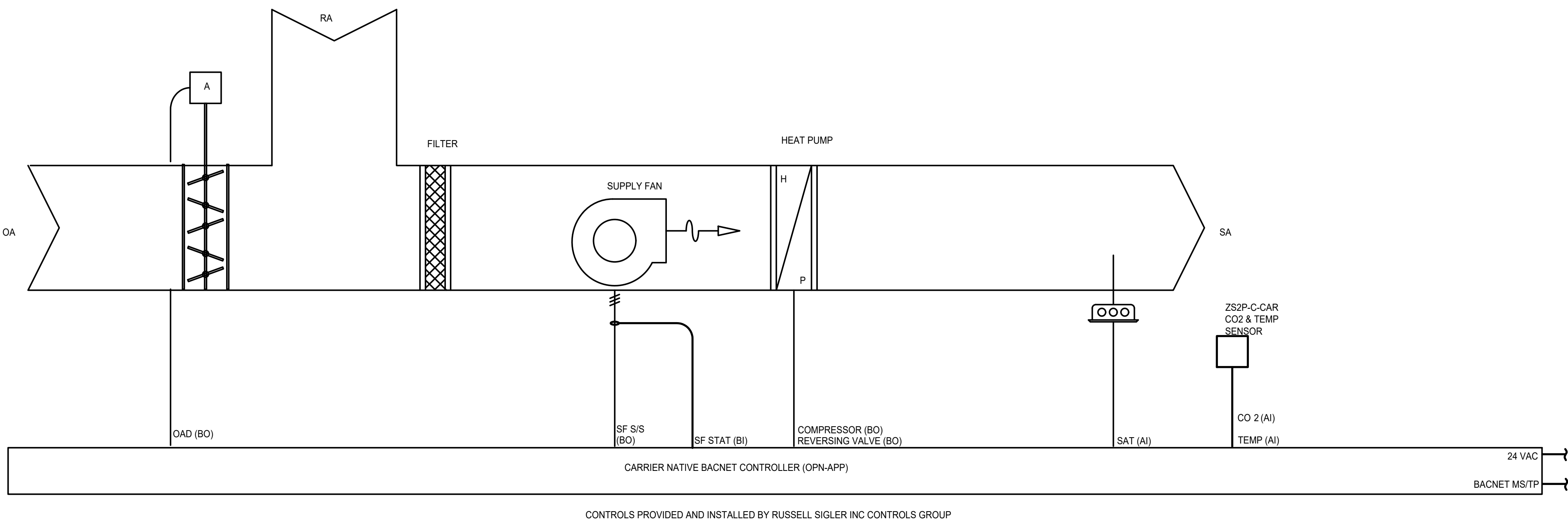
M401



DUCTED SPLIT SYSTEMS (FC/CU-1 & FC/CU-2)

SCALE
NONE

1

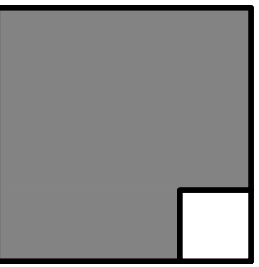


PACKAGED AIR HANDLING UNITS (AHU-1 THRU AH-3)

SCALE
NONE

2

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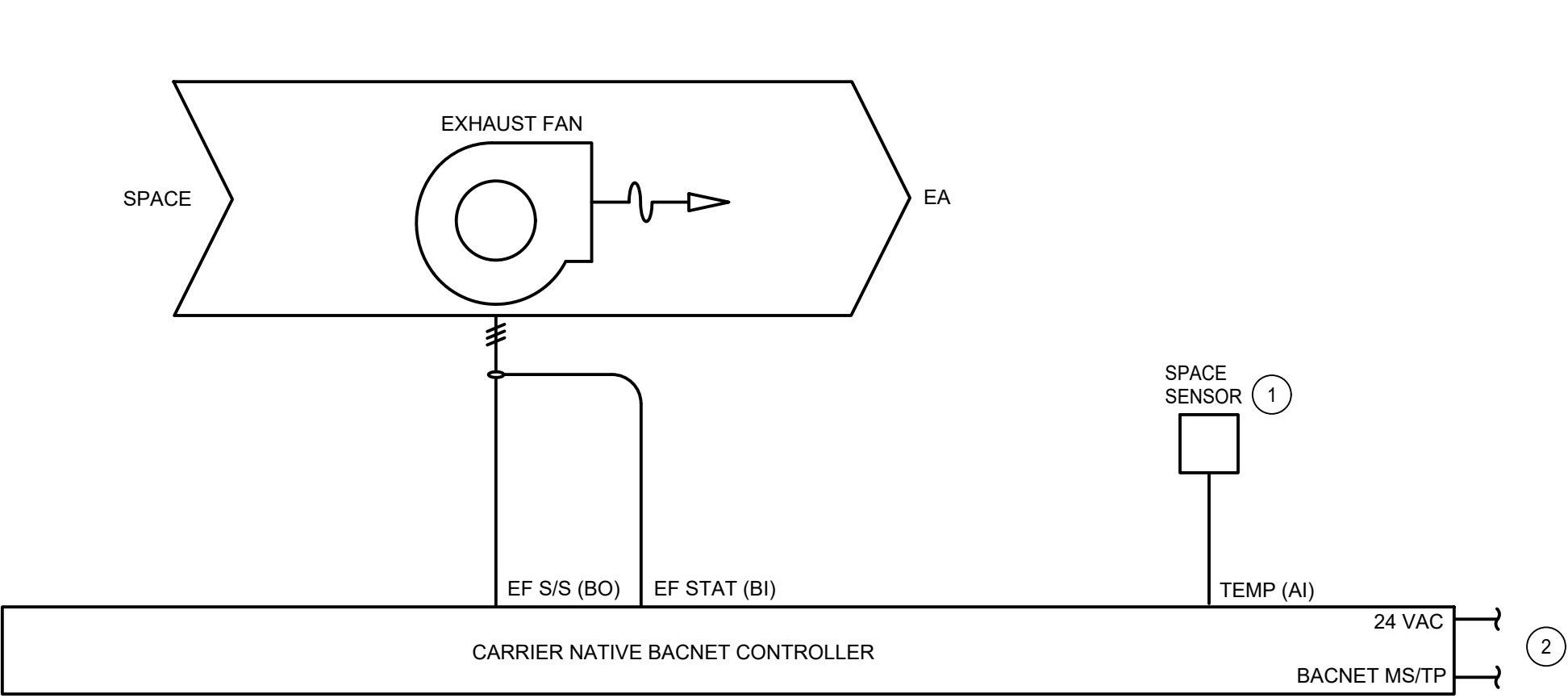
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SHEET TITLE

UNIT CONTROLS
DIAGRAMS

M402

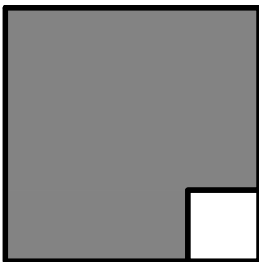


SEQUENCE OF OPERATION
EXHAUST FANS EXHAUST FAN SHALL RUN BASED ON AN OCCUPIED TIME SCHEDULE (CONFIGURABLE)

EXHAUST FAN STATUS WILL BE MONITORED THROUGH A CURRENT SENSING SWITCH. IF THE CURRENT SWITCH DOES NOT DETECT FAN STATUS AFTER A START COMMAND HAS BEEN SENT TO THE ASSOCIATED EXHAUST FAN, AN ALARM WILL BE GENERATED TO THE I-VU WEB SERVER.

NOTES:
1. A SINGLE SPACE TEMPERATURE SENSOR TO BE WIRED TO CONTROL PANEL CP-1 FOR LEAD/ LAG CONTROL OF BOTH ASSOCIATED UNITS FCU/ CU-1 & FCU/ CU-1.
2. EXISTING CONTROLLER TO BE REUSED. NEW RELAY AND CURRENT SWITCH TO BE ADDED.

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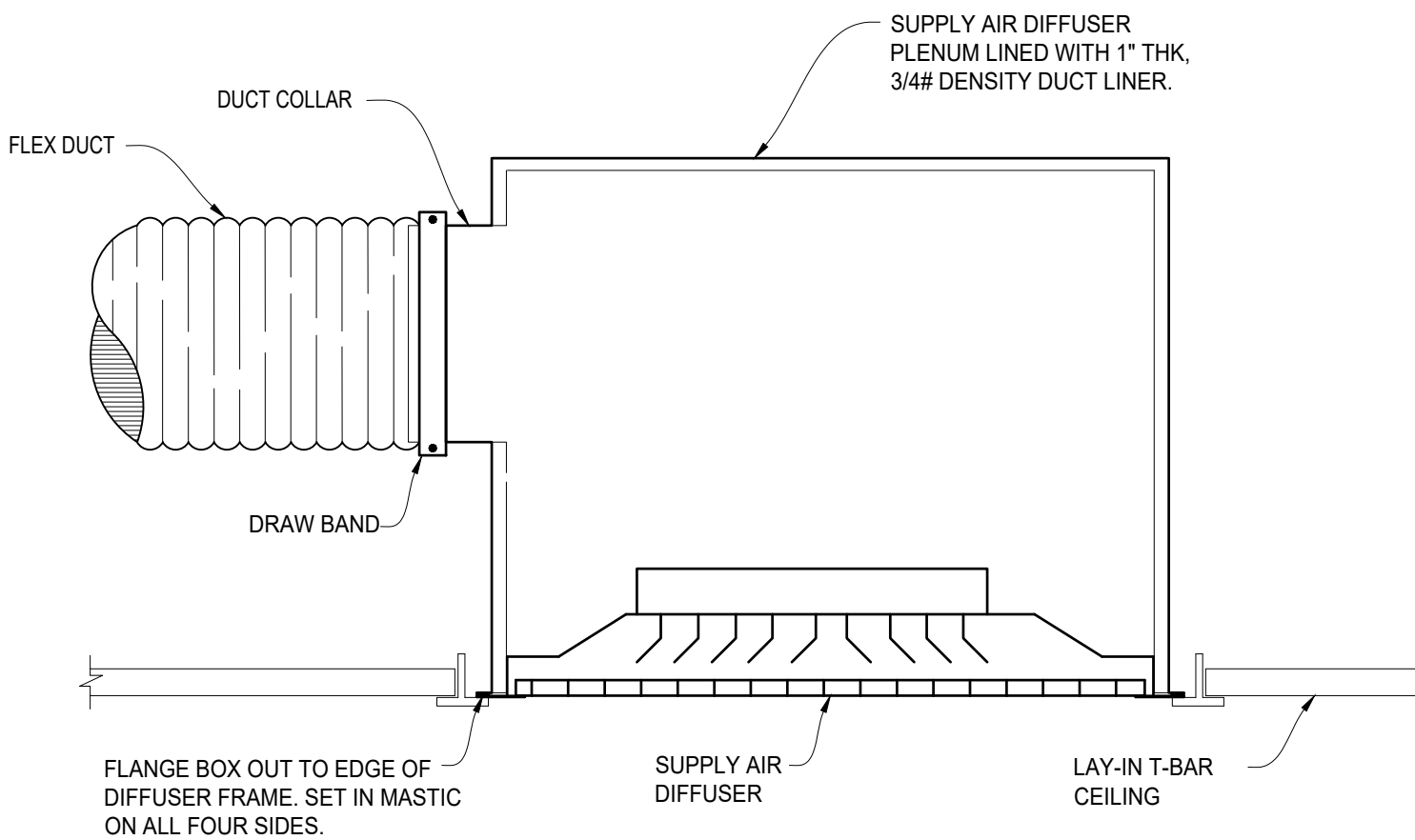
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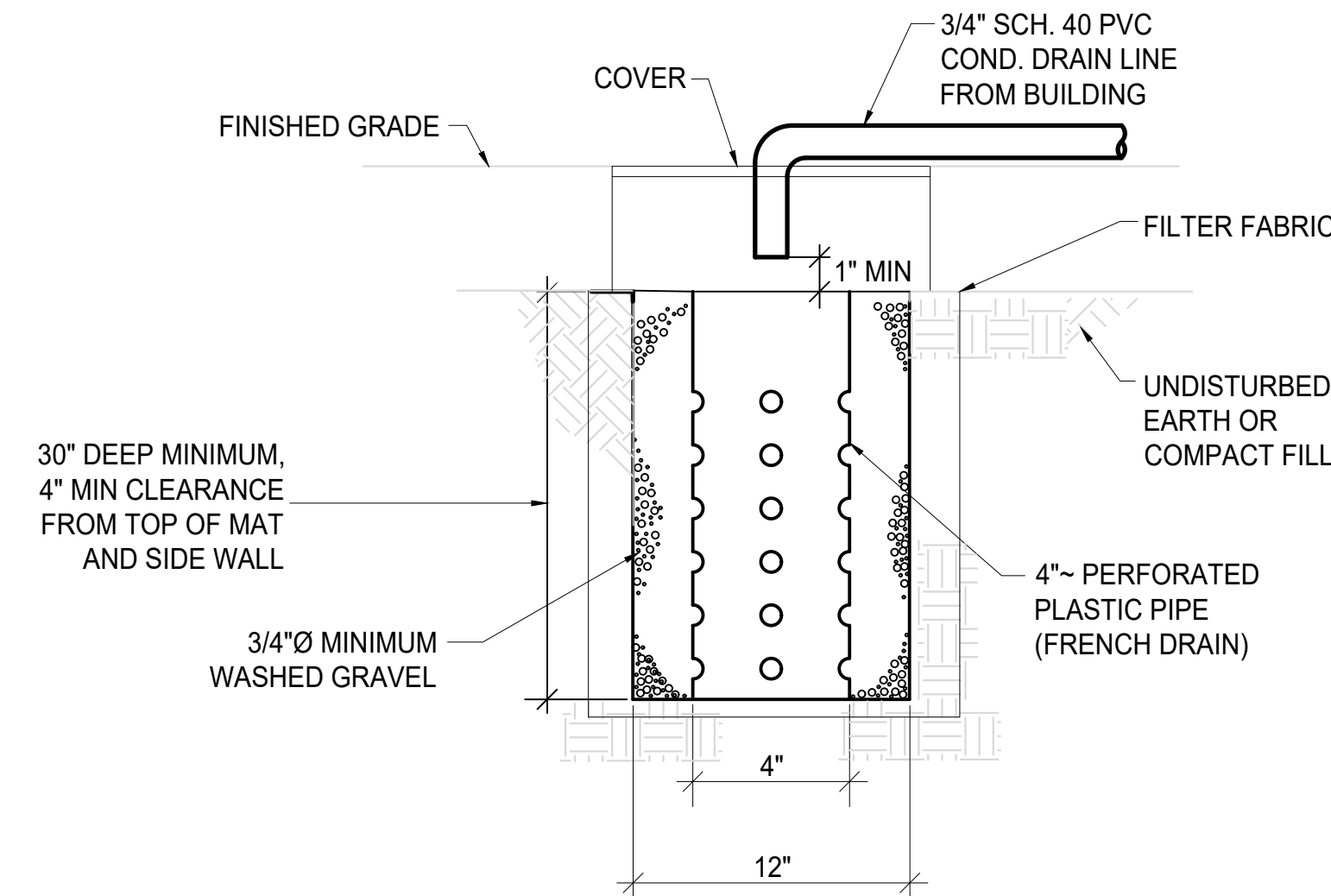
CONTROL PANEL
CP-1 DETAIL (EF-1)

M403

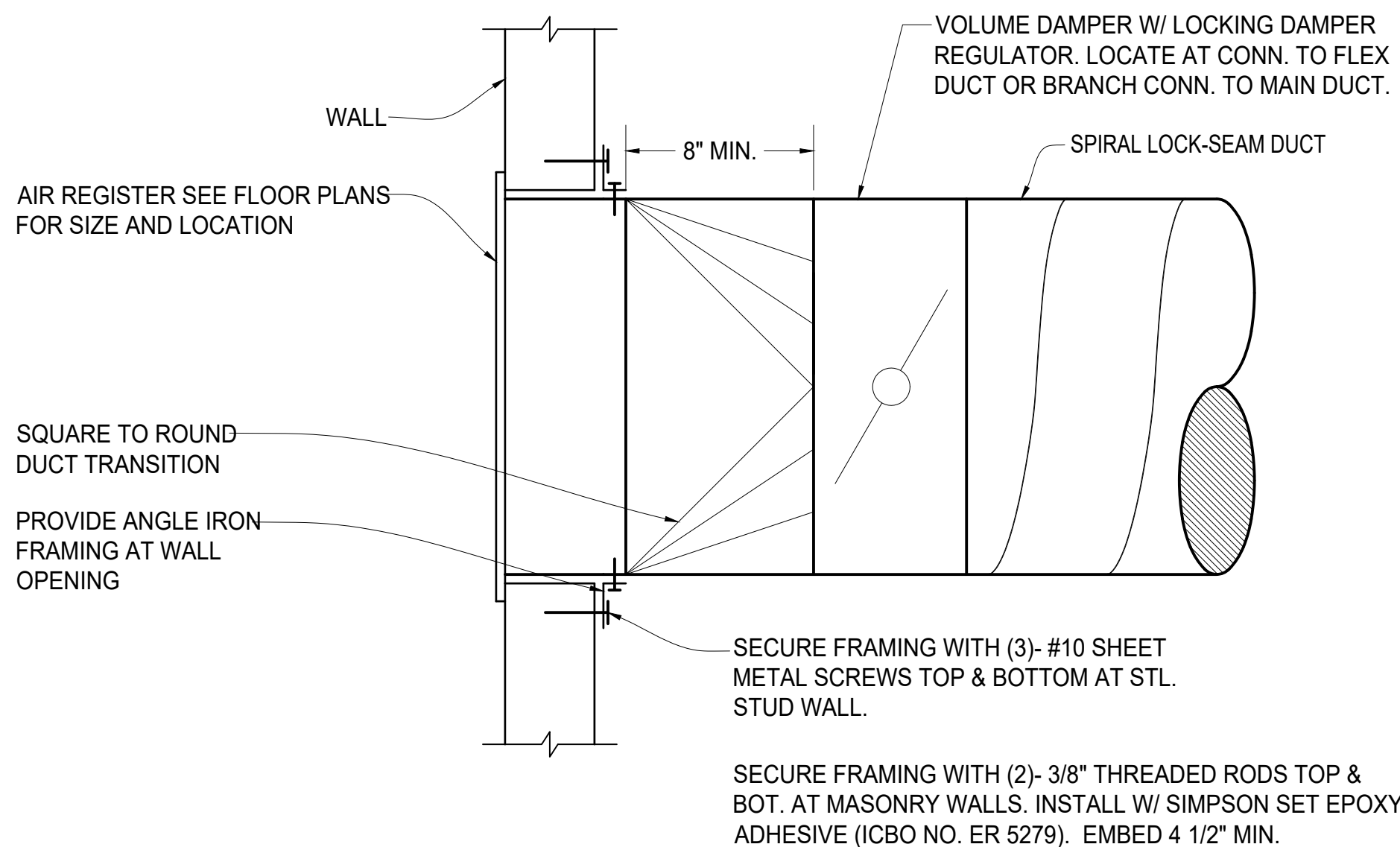


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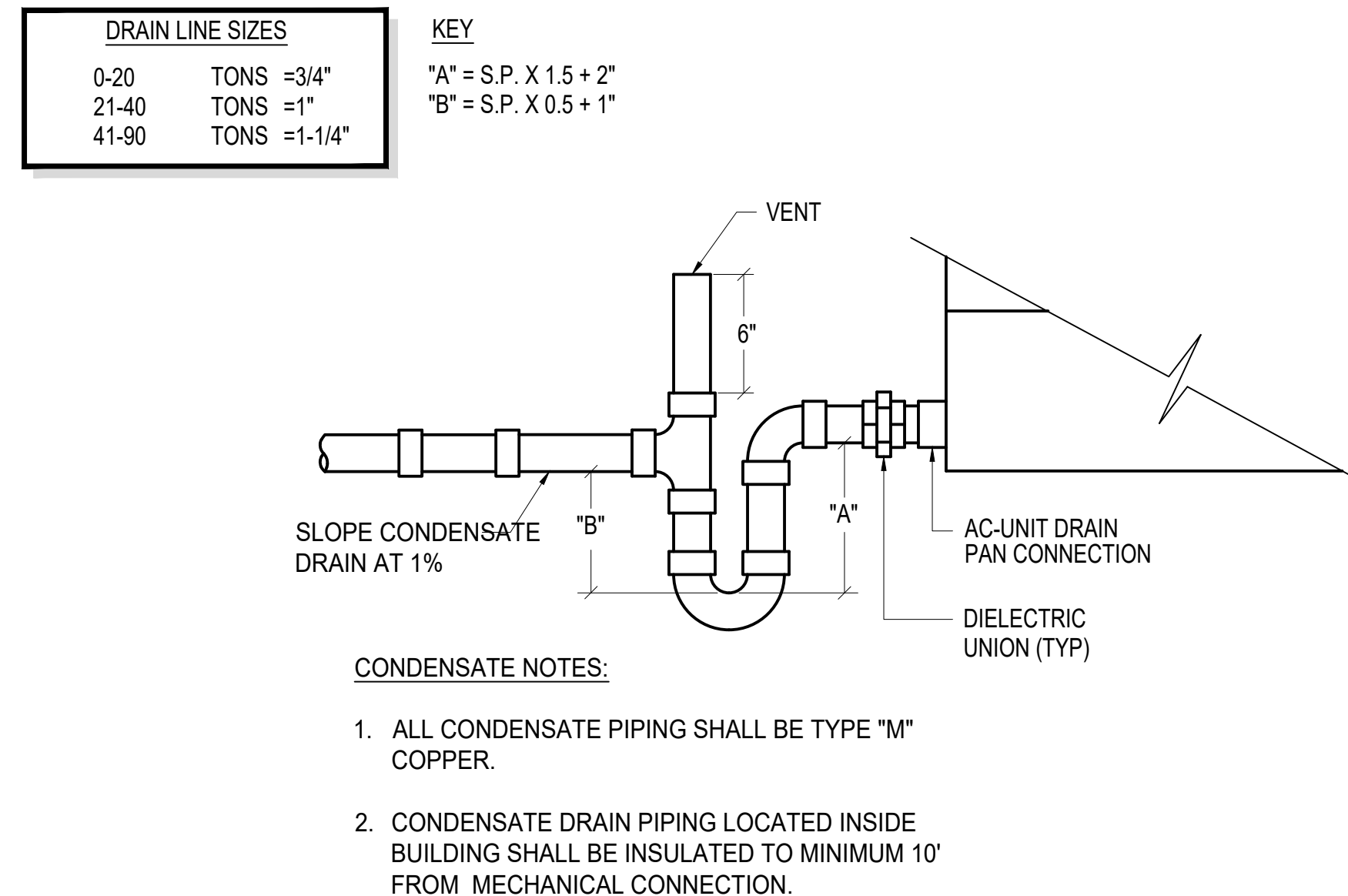
1. TYPICALLY PROVIDE TOP INLET DUCT COLLAR.
2. IF MINIMUM TURNING RADIUS WILL BE VIOLATED, USE SUPPLY A DIFFUSER PLENUM AS SHOWN ABOVE.
3. UTILIZE WHEN REQUIRED FLEX DUCT RADIUS CANNOT BE MET.



LINED DIFFUSER BOX IN T-BAR CEILING

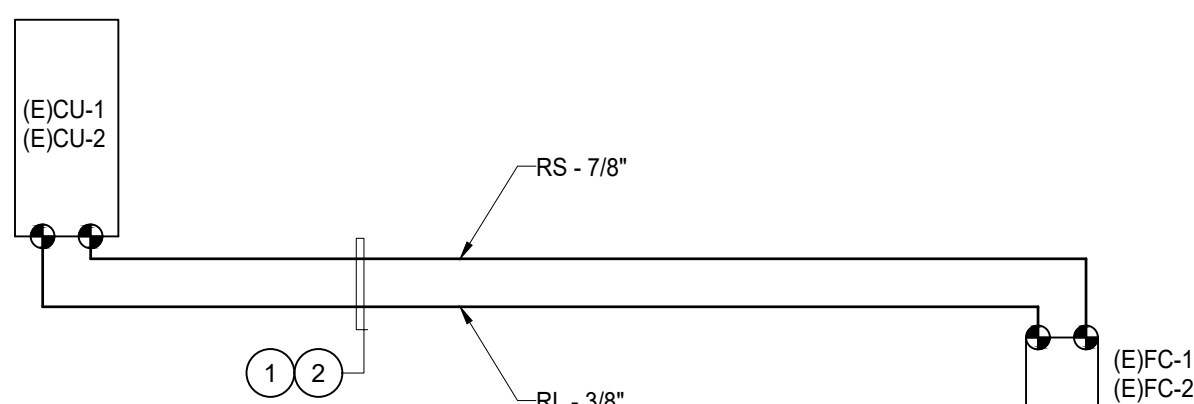


SIDEWALL REGISTER

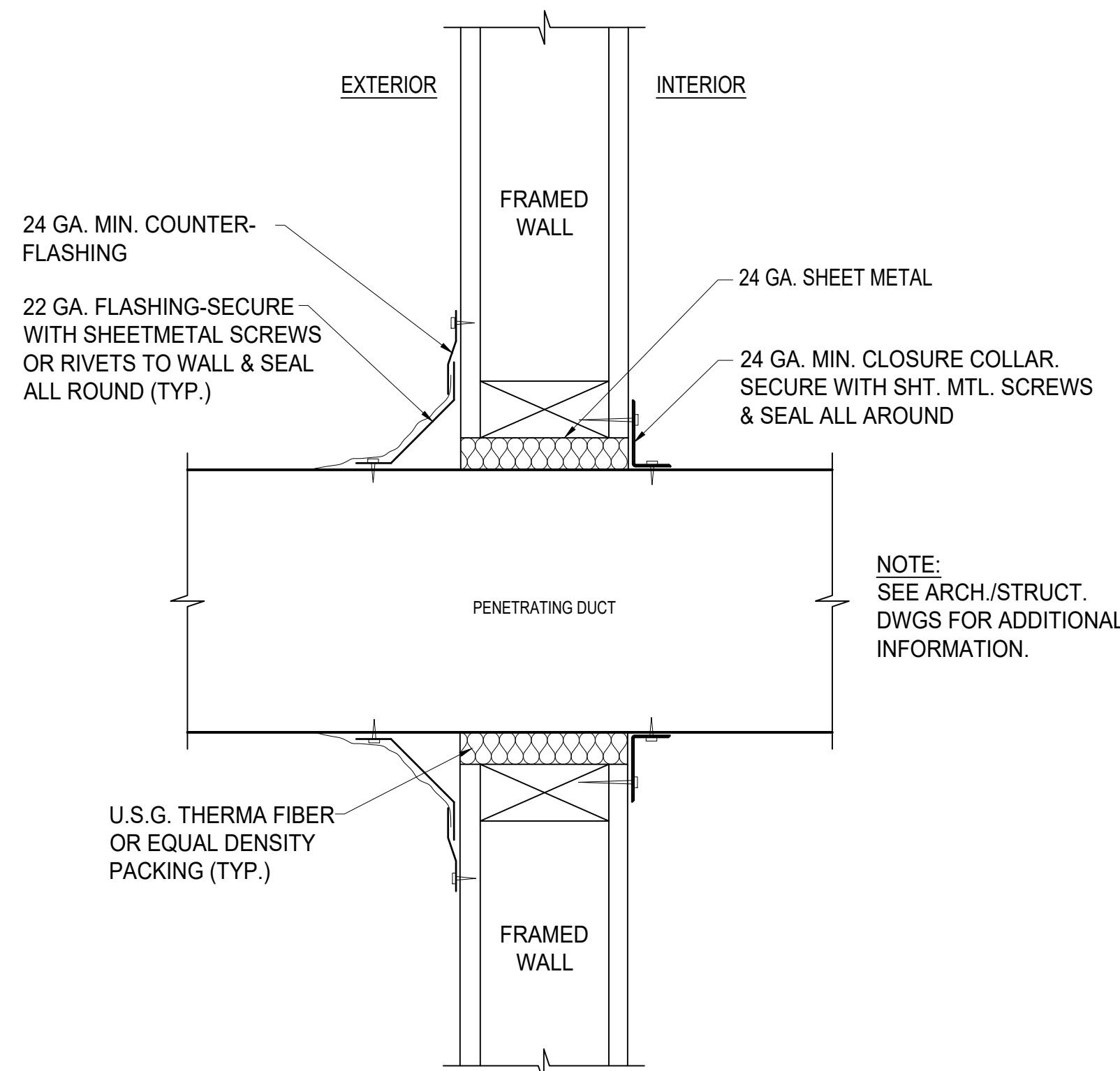


SHEET NOTES

- 1 REFRIGERANT LIQUID AND VAPOR LINES. REFER TO MANUFACTURER MANUAL FOR PRELIMINARY PIPE SIZES. PROVIDE ARMACELL ELASTOMERIC INSULATION ON BOTH RS & RL LINES. PROVIDE ARMAFLEX SHIELD PRE-JACKETED PIPE INSULATION ON ALL OUTDOOR REFRIGERANT PIPING.
- 2 PROVIDE FULL PORT BALL VALVES AT ALL UNIT CONNECTIONS FOR SYSTEM ISOLATION.
- 3 RECHARGE REFRIGERANT PER MANUFACTURER'S REQUIREMENTS AFTER FINAL DETERMINATION OF LINE LENGTHS.

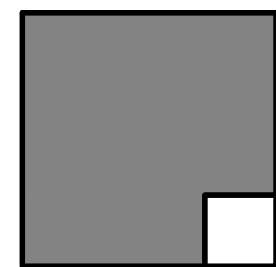


REFRIGERANT PIPING SCHEMATIC - CU-1 & CU-2



DUCT THU EXTERIOR FRAME WALL

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SHEET TITLE

MECHANICAL DETAILS

M501

ABBREVIATIONS

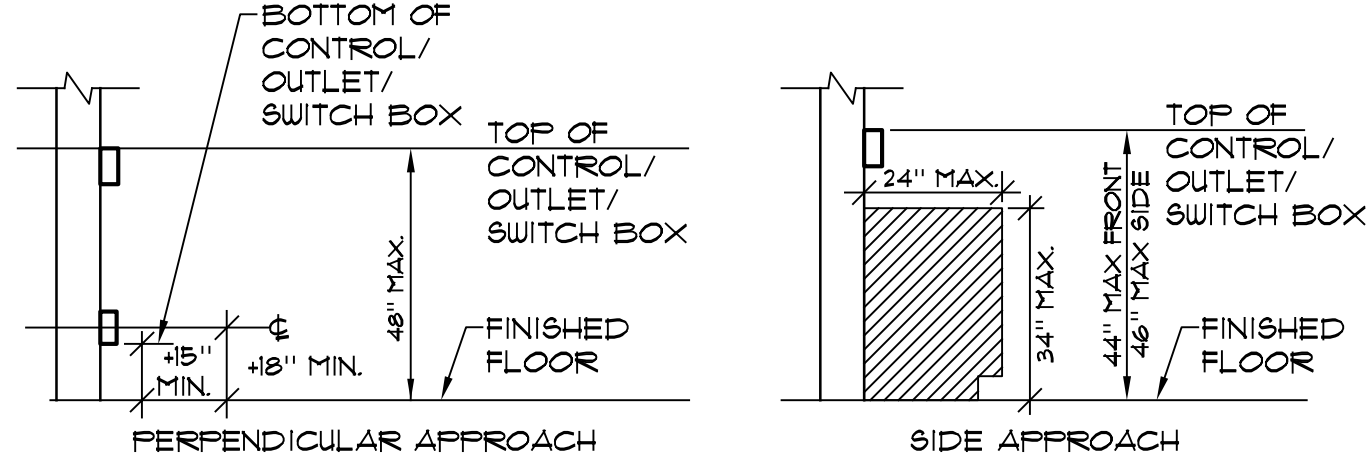
A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPs	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTS	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PHASE
PH	POINT OF CONNECTION
POC	PVC COATED RIGID STEEL (CONDUIT)
PRS	POTENTIAL TRANSFORMER
PT	POLYVINYL CHLORIDE DUCT
PVC	SWITCHBOARD
SWBD	TYPICAL
TYP	UNDERGROUND
UG	UNLESS OTHERWISE NOTED
UON	VOLT
V	VOLTAHMERES
VA	VOLTMETER
VM	VERIFY LOCATION
VL	WIRE/WATTS
W	WEATHERPROOF (NEMA TYPE 3R)
WP	WATERTIGHT
WT	EXPLOSION PROOF (RATED FOR AREA HAZARD)
XP	

ELECTRICAL SYMBOL LEGEND

POWER	
	DUPLEX RECEPTACLE, FLOOR MOUNTED
	DUPLEX RECEPTACLE, WALL MOUNTED, 18" AFF. (UON.)
	RECEPTACLE, WALL MOUNTED HORIZONTALLY, 18" AFF. (UON.)
	FOURPLEX RECEPTACLE, WALL MOUNTED, 18" AFF. (UON.)
	RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.
	PROVIDE DUPLEX RECEPTACLE CEILING MOUNTED. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
	DUPLEX RECEPTACLE WITH TYPE A/C USB CHARGER PORTS, WALL MOUNTED 18" AFF. (UON.)
	SINGLE RECEPTACLE (CLOCK HANGER TYPE) WALL MOUNTED 11'-0" AFF. (UON.)
	CONTROLLED QUAD RECEPTACLE 18" (UON.)
	DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE 18" AFF. (UON.)
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT 18" AFF. (UON.)
	DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE 18" AFF. (UON.)
	DUPLEX RECEPTACLE IN WEATHERPROOF 'LOCKING' ENCLOSURE 18" AFF. (UON.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
	SINGLE RECEPTACLE 120 VOLT, 20 AMP TWISTLOCK WALL MOUNTED. FIELD VERIFY EXACT LOCATION.
	FOURPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED 18" AFF. (UON.)
	DUPLEX COMPUTER RECEPTACLE (GREY), WALL MOUNTED 18" AFF. (UON.)
	DUPLEX COMPUTER RECEPTACLE (BLUE) ISOLATED GROUND, SURGE SUPPRESSION, WALL MOUNTED 18" AFF. (UON.)
	SINGLE RECEPTACLE 30 AMP, 250V, 4W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 50 AMP, 250V, 3W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 30 AMP, 125V, 3W, TWISTLOCK GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 30 AMP, 250V, 3W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 30 AMP, 250V, 5W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 30 AMP, 480V, 5W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	SINGLE RECEPTACLE 20 AMP, 250V, 5W, GROUNDING, WALL MOUNTED 18" AFF. (UON.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
	DUPLEX RECEPTACLE SAFETY TYPE / TAMPER PROOF WALL MOUNTED 18" AFF. (UON.)
	SPECIAL PURPOSES KITCHEN EQUIPMENT RECEPTACLE. SEE KITCHEN PLANS FOR EXACT TYPE. FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. SEE KITCHEN PLANS FOR EXACT MOUNTING HEIGHT.
	DUPLEX RECEPTACLE, WALL MOUNTED ADJACENT TO T.V. OUTLET; SEE SIGNAL PLAN FOR EXACT LOCATION.
	JUNCTION BOX, FLOOR MOUNTED
	JUNCTION BOX, CEILING OR WALL MOUNTED
	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
	MANUAL MOTOR STARTER 48" AFF. OR ON EQUIPMENT (UON.)
	MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
	MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
	CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
	FLEXIBLE CONDUIT CONNECTION
	BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED UON. #2 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #2
	3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
	BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
	CONDUIT DROP.
	CONDUIT RISER.
	PANELBOARD, SURFACE MOUNTED.
	PANELBOARD, RECESSED
	STEP-DOWN TRANSFORMER
	DISTRIBUTION SWITCHBOARD

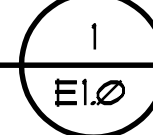
GENERAL PROJECT NOTES:

- UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- 'GENERAL NOTES' SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. 'KEY NOTES' ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

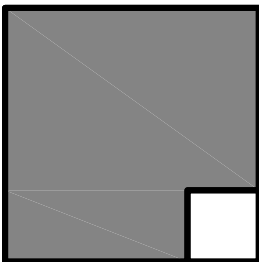


MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE



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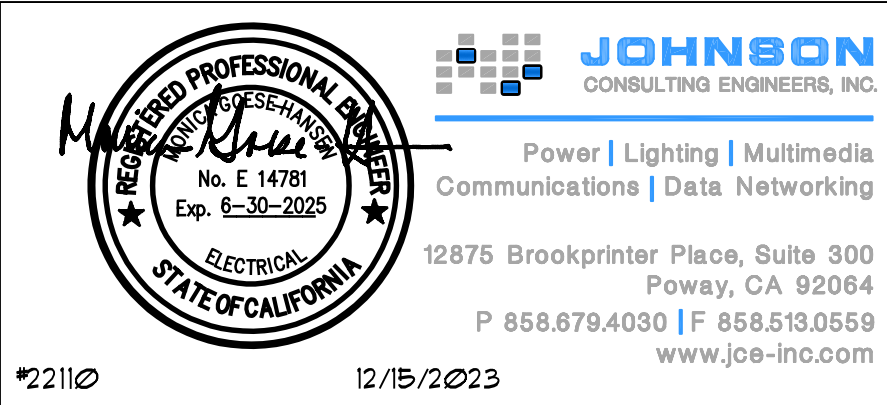
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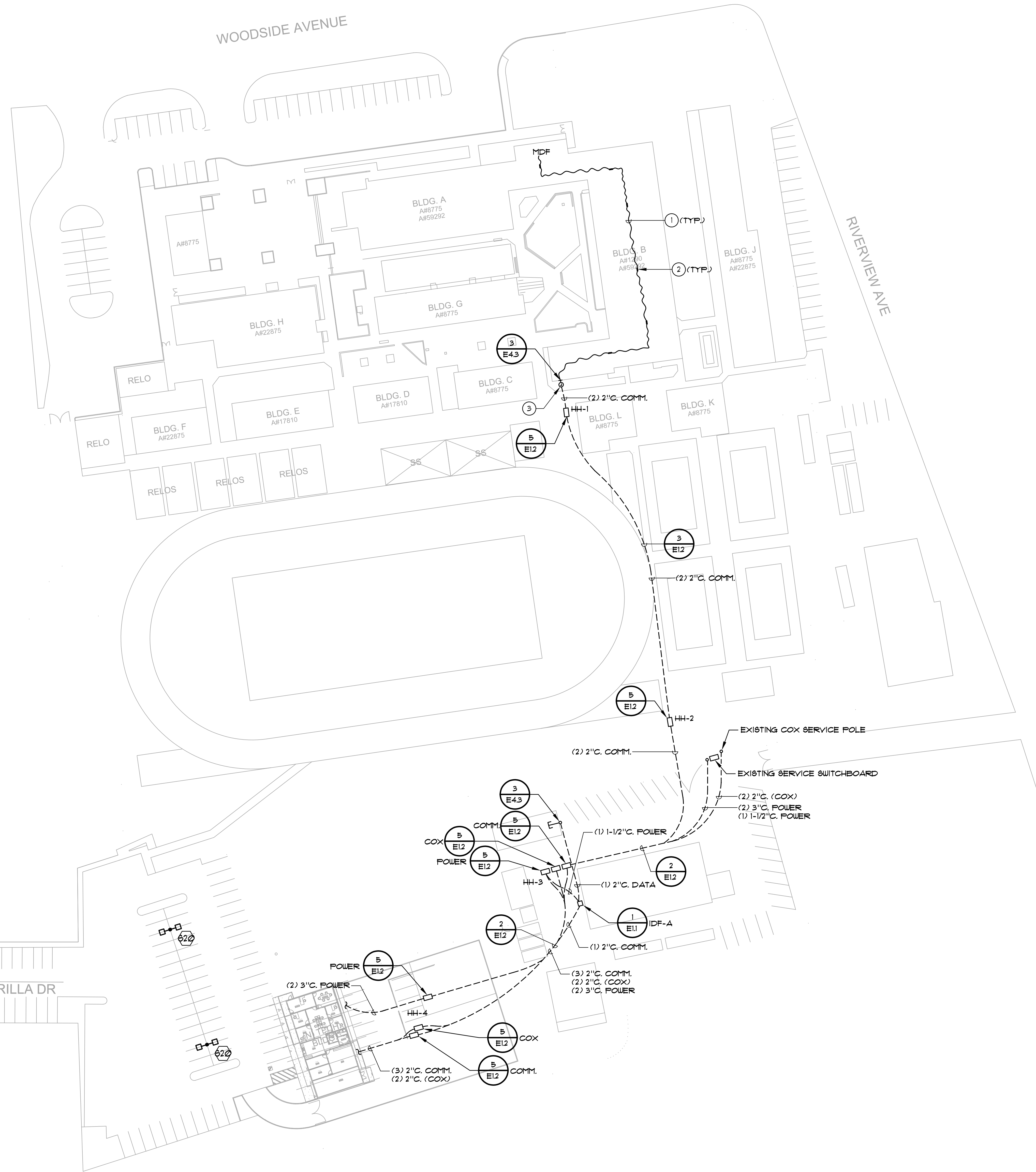
ELECTRICAL LEGEND
AND NOTES

E-1.0



1 OVERALL SITE PLAN (W/ LAKESIDE MIDDLE SCHOOL)

SCALE: 1" = 40'



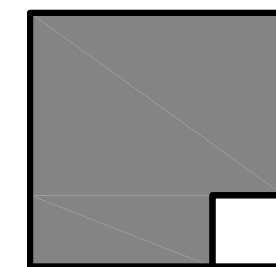
GENERAL NOTES:

1. ALL JUNCTION BOXES SHOWN ON FLOOR PLAN SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.
2. REFER TO E12 FOR TYPICAL SITE DETAILS.

KEY NOTES:

1. ROUTE NEW FIBER/COPPER FEEDERS IN EXISTING ATTIC SPACE (CONDUIT NOT REQUIRED).
2. PROVIDE (2) 2" C. SLEEVES AT (5) LOCATIONS. FIELD VERIFY EXACT LOCATIONS.
3. ROUTE CONDUIT UNDER EXISTING PLANTER WALL. BACKFILL WITH CONCRETE SLURRY AS REQUIRED.

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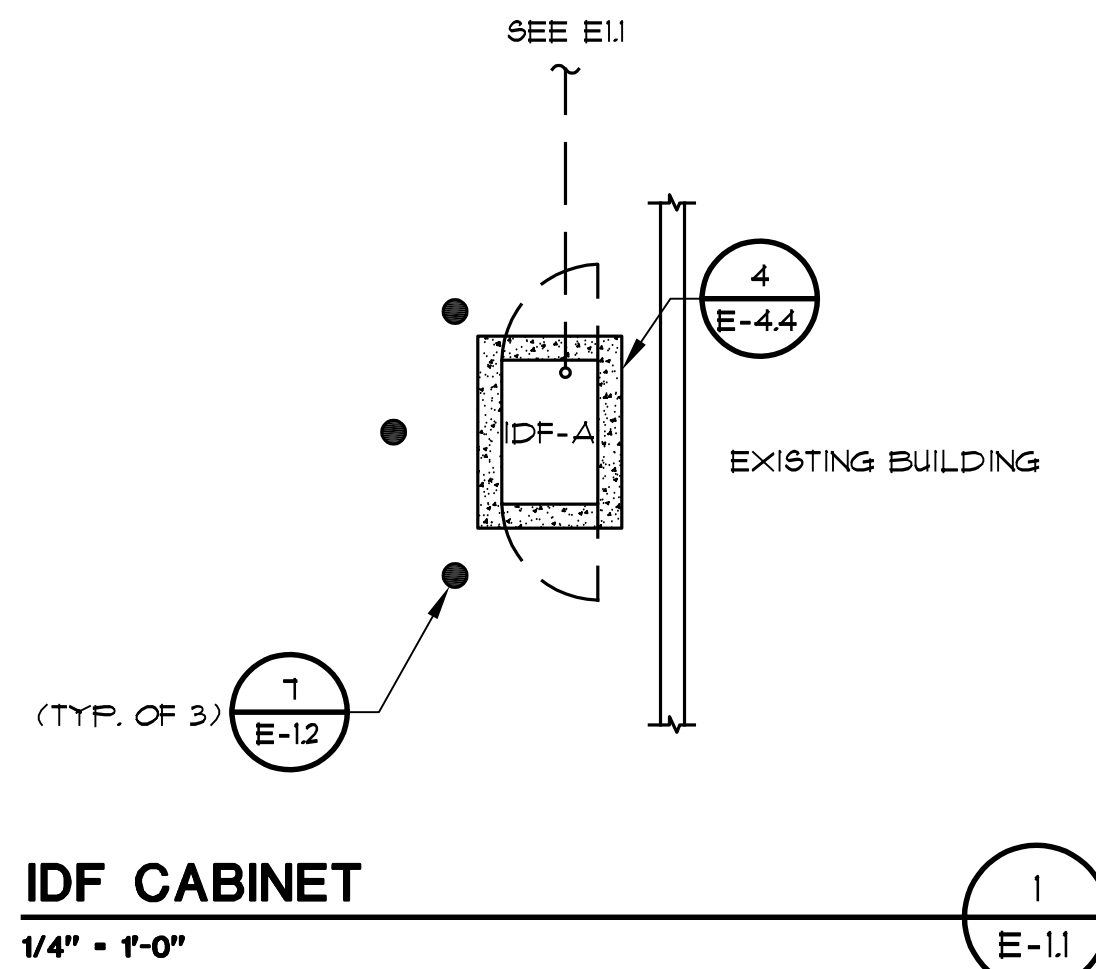
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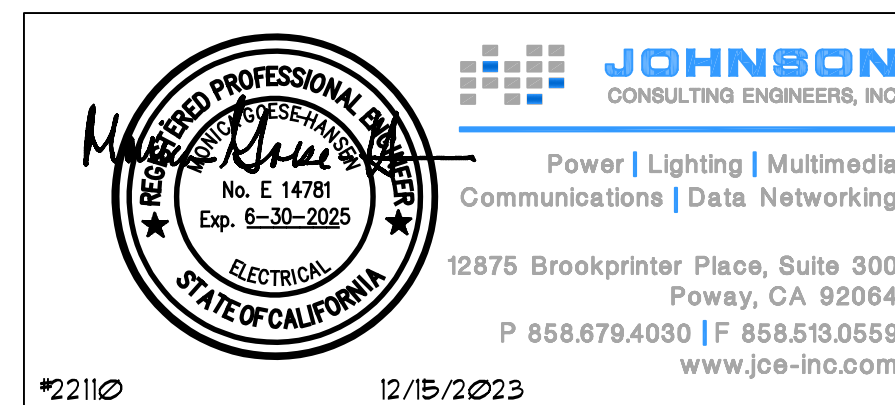
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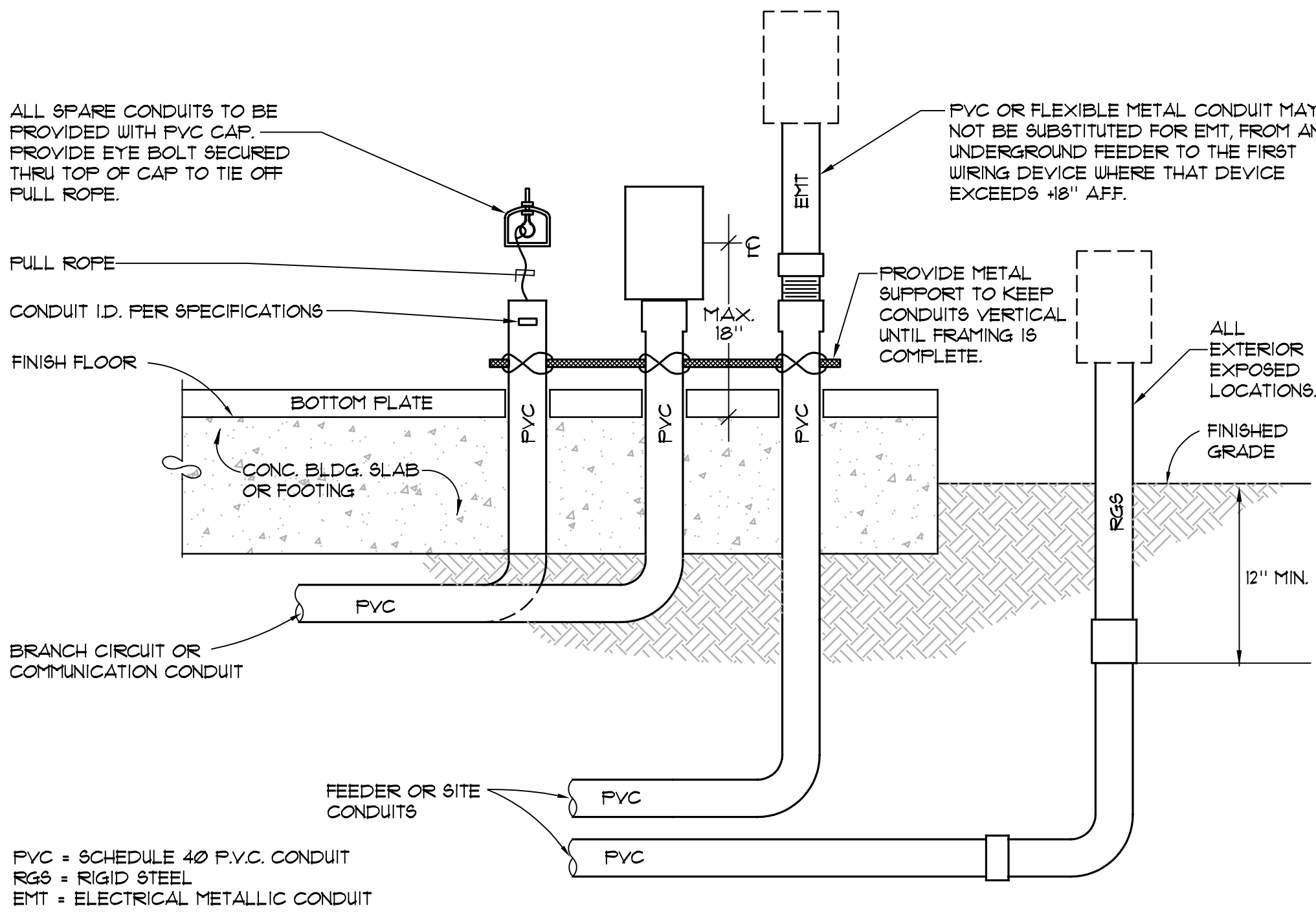
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OVERALL SITE PLAN

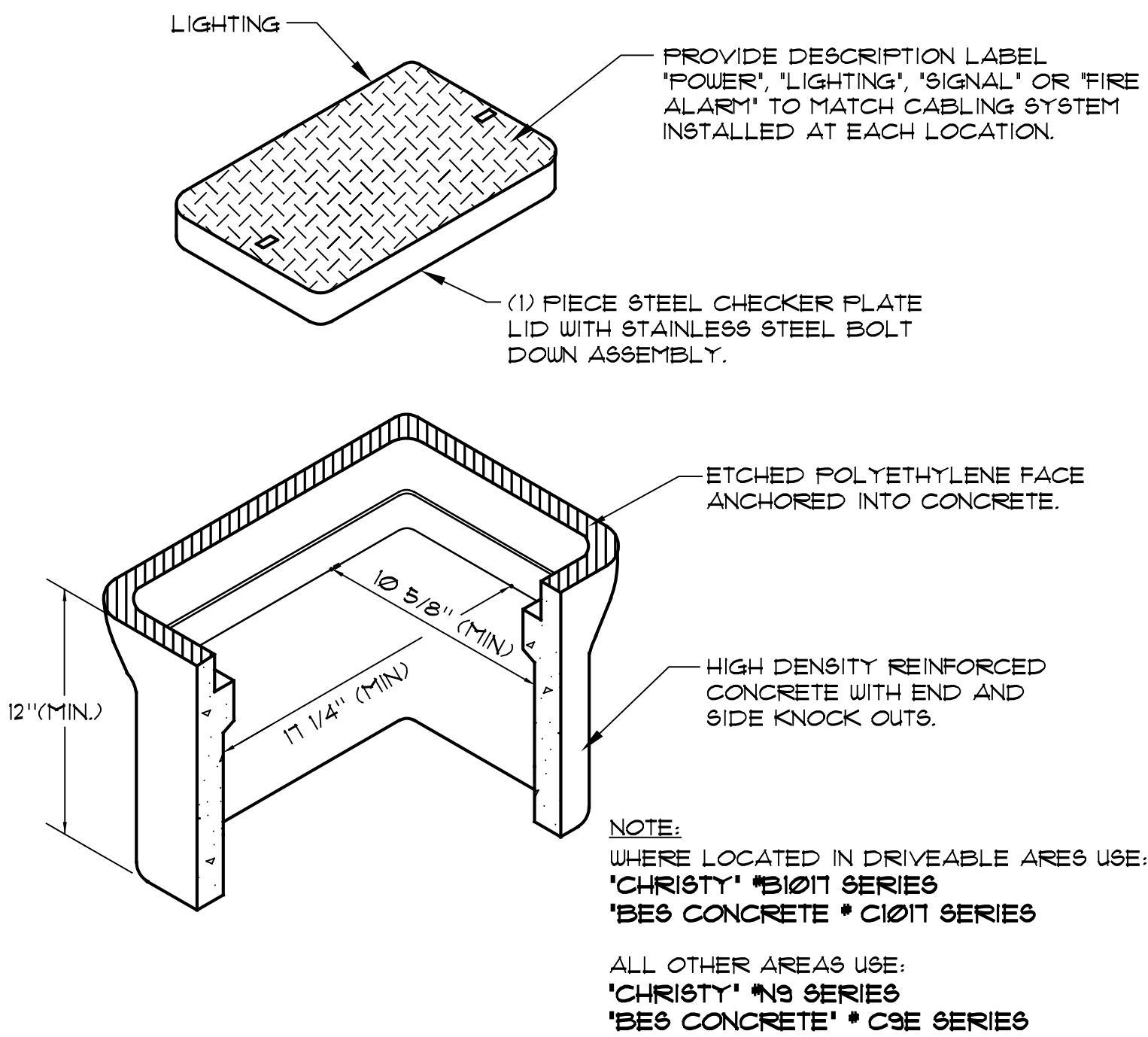
E-1.1





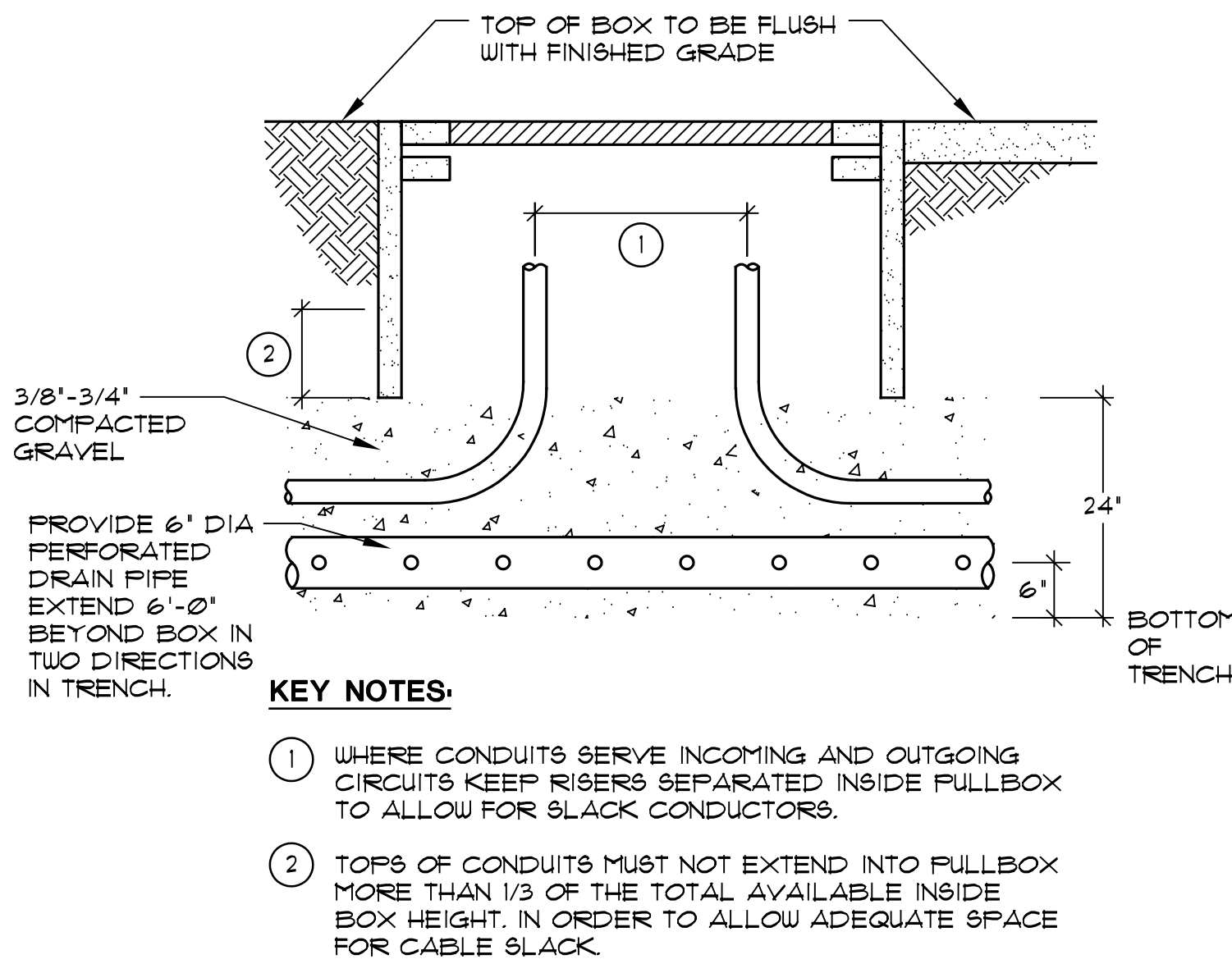
TYPICAL CONDUIT DETAIL
NO SCALE

1
E-12



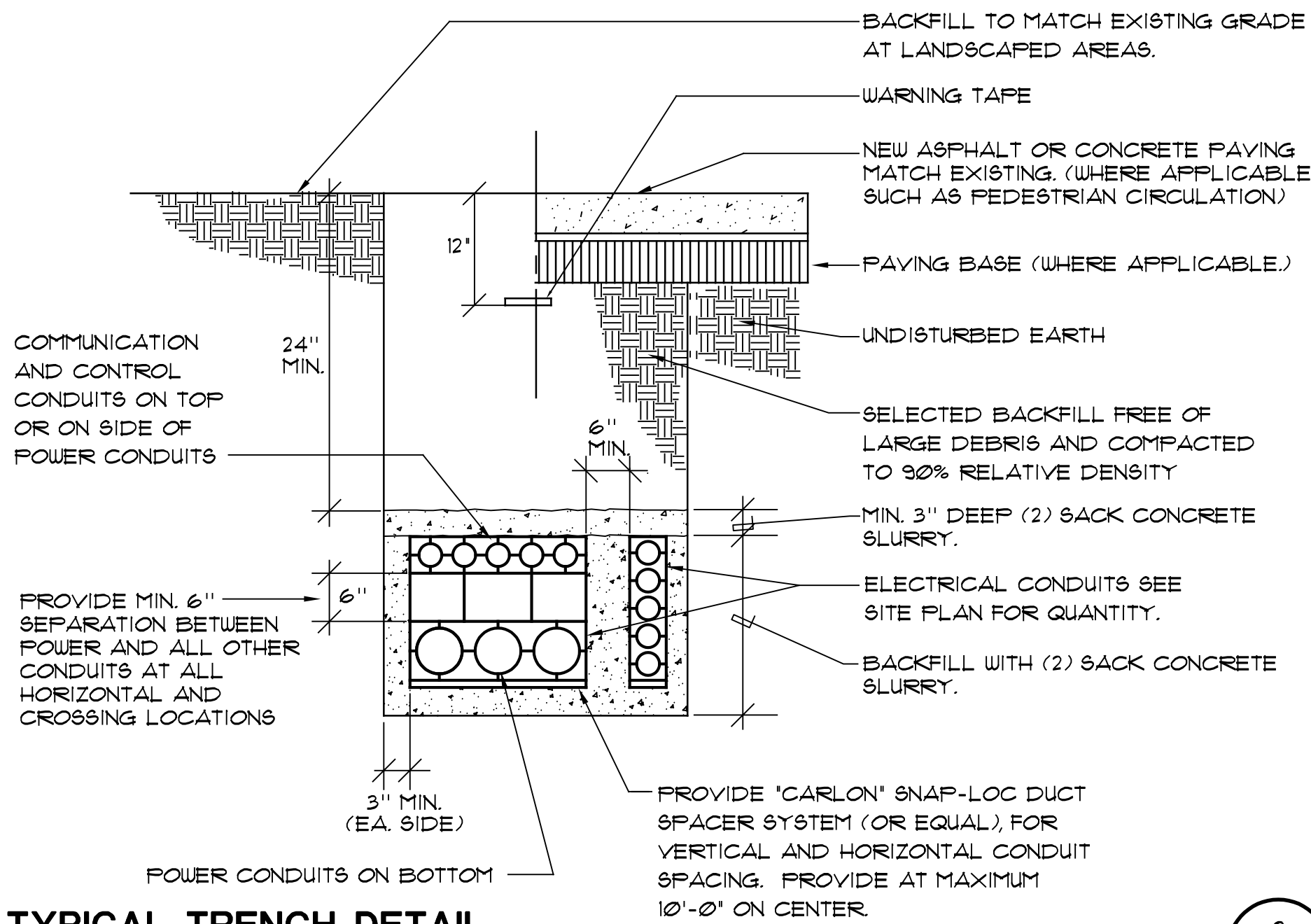
UNDERGROUND PULL BOX
NO SCALE

4
E-12



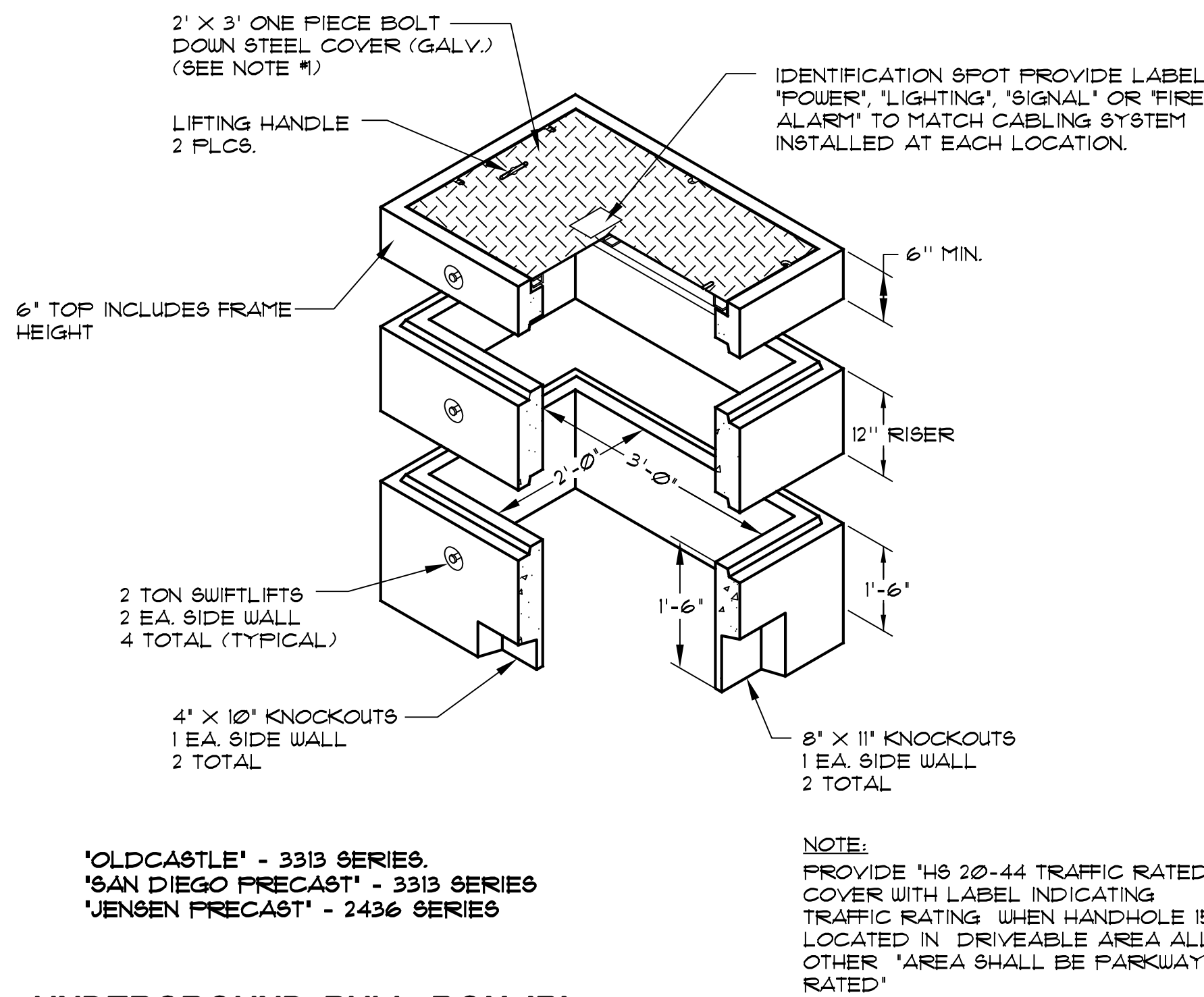
UNDERGROUND PULLBOX STYLE 'A'
NO SCALE

6
E12



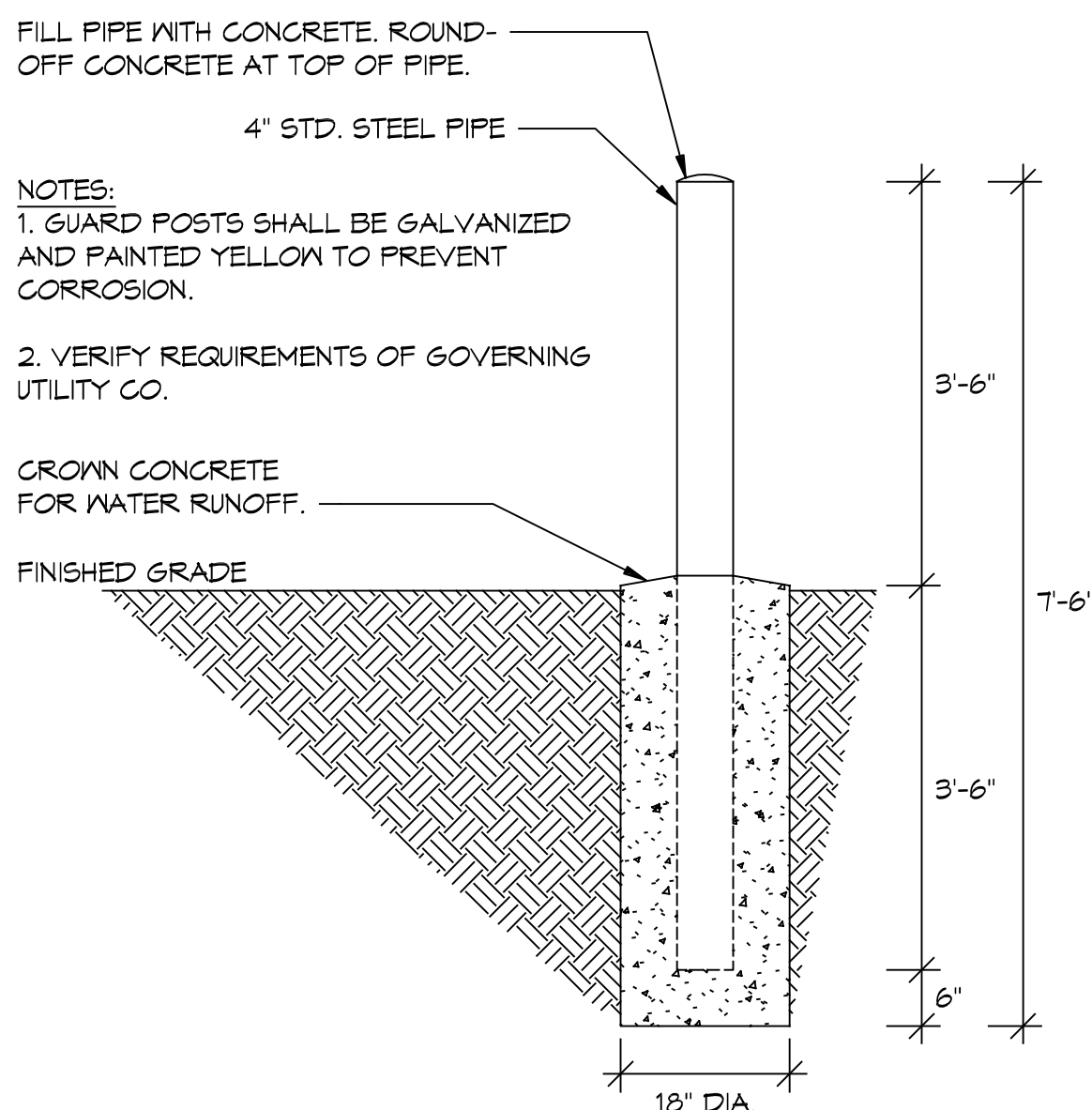
TYPICAL TRENCH DETAIL
NO SCALE

2
E-12



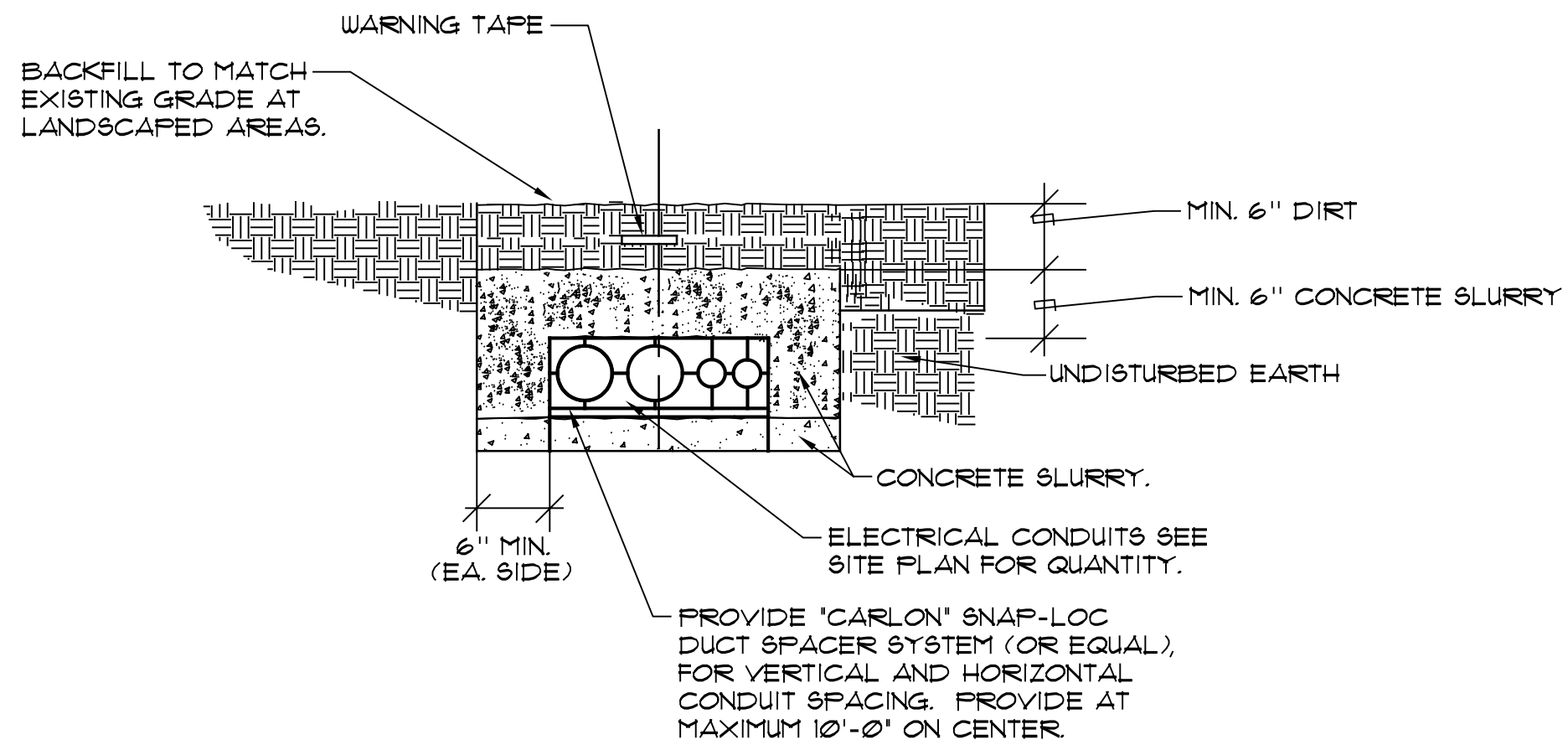
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NO SCALE

5
E-12



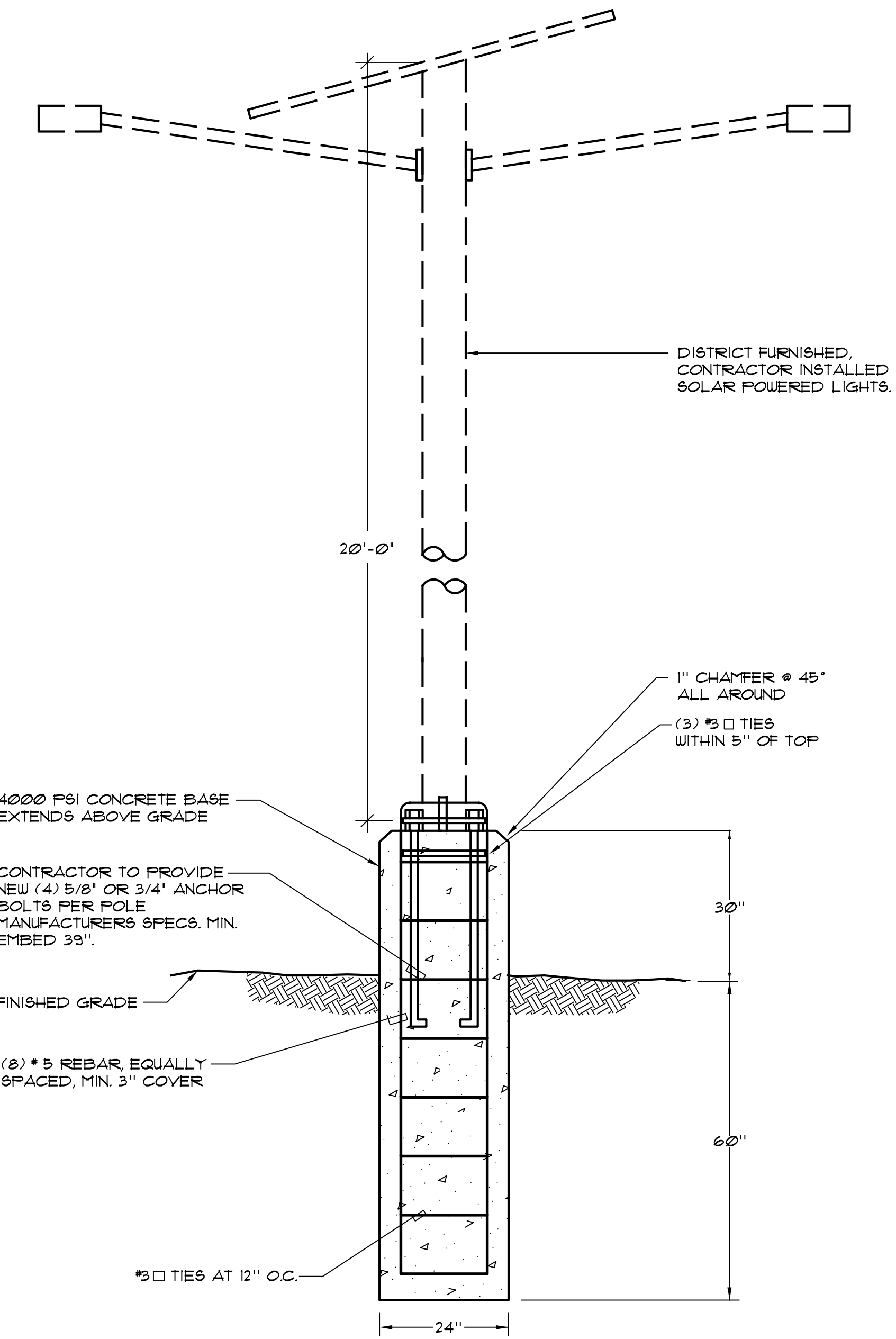
POLE BASE DETAIL
NO SCALE

7
E12



TYPICAL TRENCH DETAIL
NO SCALE

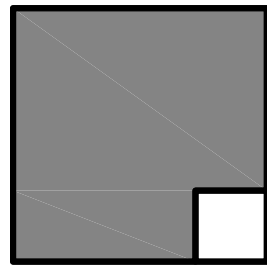
3
E-12



POLE BASE DETAIL
NO SCALE

8
E12

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12335 Woodside Ave. Lakeside CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

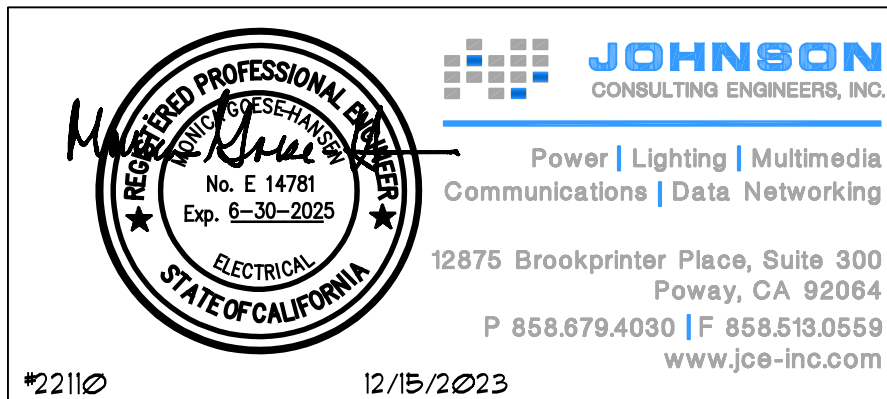
MODEL FILE:
LUSD Technology Dept. Bldg_.ph

PLOT DATE:
10/20/2023

SHEET TITLE

ELECTRICAL DETAILS

E-1.2



Power | Lighting | Multimedia
Communications | Data Networking

12875 Brookprinter Place, Suite 300
Poway, CA 92004
P 658.879.4030 | F 658.513.0559
www.joh-inc.com

2/21/20

12/15/2023

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Page 1 of 7

A. GENERAL INFORMATION

01 Project Location (city)

SANTA ANA

04 Total Illuminated Hardscape Area (ft²)

30424

02 Climate Zone

10

03 Outdoor Lighting Zone per Title 24 Part 1.10.134 or as designated by Authority Having Jurisdiction (AHJ):

☐ 02-0: Very Low - Undeveloped Parkland

☐ 02-2: Moderate - Urban Clusters

☐ 02-4: High - Must be reviewed by CA Energy Commission for Approval

☐ 02-1: Low - Rural Areas

☒ 02-3: Moderately High - Urban Areas

05 Occupancy Types within Project

06 Classroom

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(c) or 141.0(b)(2) / 180.2(b)(4) for outdoor lighting systems.

01 New Project Consists of:

02 New Lighting System

Must Comply with Allowances from 140.7 / 170.2(c)

03 Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

Yes

No

04 % of Existing Luminaires Being Altered¹

Sum Total of Luminaires Being Added or Altered

Calculation Method

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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Report Version: 2022.0.000
Schema Version: rev 20220101

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table O. Exceptional Conditions for guidance or use applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(c) or 141.0(b)(2) / 180.2(b)(4)

01 General Hardscape Allowance 140.7(c) / 170.2(c)(6) (See Table L)

02 Per Application 140.7(c)(2) / 170.2(c)(6) (See Table L)

03 Sales Frontage 140.7(c)(2) / 170.2(c)(6) (See Table L)

04 Ornamental 140.7(c)(2) / 170.2(c)(6) (See Table L)

05 Per Specific Area 140.7(c)(2) / 170.2(c)(6) (See Table M)

06 Existing Power Allowance 141.0(b)(2) / 180.2(b)(4) (See Table N)

07 Total Allowed (Watts)

08 Total Actual (Watts)

09 07 must be >= 08

Shielding Compliance (See Table G for Details)

COMPLIES

Controls Compliance (See Table H for Details)

COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Selections made in Certificates of Acceptance Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

(NRCALTO-01-A) Explanation NA

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(c) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below. For outdoor lighting systems using the Existing Power method per 141.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table N, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire¹

How is Wattage determined

Total Number Luminaires²

Luminaire Size³

Excluded per 140.7(a) / 170.2(b)(6A)

Design Watts

Cutoff Req. > 6,200 (initial)

Field Inspector

520

LIGHT POLE

☐ Linear

51

Mfr. Spec

12

New

☐

612

Provided

☐

☐

Total Design Watts:

612

¹ NOTES: Selections with a "*" require a note in the space below explaining how compliance is achieved.
(Ex: Luminaire is lighting a statue. EXCEPTION 2 to 130.2(b))

² FOOTNOTES: Authority Having Jurisdiction may use for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 180.5(b)

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing to be Removed" for existing luminaires which are being removed and replaced as part of the project scope.

⁴ Compliance with mandatory shielding requirements is required for luminaires with initial beam output >= 6,200 unless exempted by 130.2(b) / 180.5(b)

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G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Table 24, Part 12, Section 5.10.8.

01

02

03

04

05

06

07

08

09

10

11

12

Name or Item Tag

Complete Luminaire Description

Mounting Height¹

Min. Allowable Backlight Rating²

Backlight Rating Per Design

Lighting type

Min. Allowable Uplight Rating³

Uplight Rating Per Design

Mounting Height

Min. Allowable Glare Rating³

Glare Rating Per Design

Pass

Fail

520

LIGHT POLE

2 Mft From property line

No Limit

B1

Area Lighting

UD

UD

2 Mft From property line

G3

G3

☐

☐

FOOTNOTES: Mounting height is labeled Mft in this table.

¹ Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, weight ratings and glare ratings used for compliance per 130.2(b) / 180.5(c)

² BUG ratings with a lower number than the "Min. Allowable" are compliant. Ex. If Min. Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

³ Authority Having Jurisdiction may ask for cut sheets or other documentation to confirm luminaire type, weight ratings and glare ratings used for compliance per 130.2(b) / 180.5(c)

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie. unaltered) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01

02

03

04

05

Area Description

Shut Off 130.2(c) / 180.5(c)

Auto-Schedule 130.2(c) / 180.5(c)

Motion Sensor 130.2(c) / 180.5(c)

Field Inspector

HARDCOURTS: "520"

Astronomical Timer

Provided

Provided

Pass

Fail

FOOTNOTE: Test has been obsoleted, please refer to Table 180.5-A to confirm compliance with the specific light source technologies listed.

¹ Authority Having Jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.

² Recessed luminaires intended for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from I and II.

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I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-4/ Table 170.2-3 with "Use it or lose it" allowance. Allowances are per Table 140.7-8/ Table 170.2-5. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances that not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table N, and are not included here. All other multifamily outdoor lighting is included here.

General Hardscape Allowance Table (Below)

01

02

03

04

05

06

07

08

09

Area Description

Illuminated Area (ft²)

Allowed Density (W/ft²)

Area Allowance (Watts)

Perimeter Length (ft)

Linear Allowance (W/ft)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

HARDCOURTS

30424

0.021

638.9

820

0.2

170

608.9

1058.9

Initial Wattage Allowance for Entire Site (Watts):

608.9

Instances of Initial Wattage Allowance (L2 0 only):

1

Total General Hardscape Allowance (Watts):

1058.9

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Sections have been made based on information provided in this document. If any selector has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCALTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCALTO forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Page 7 of 7

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Monica Hansen

Signature Date: 7/7/23

Signature: [Signature]

Address: 12875 Brookprinter Pl, Suite 300, Poway, CA 92064

City/State/Zip: Poway, CA 92064

Phone: 858-679-4030

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am a duly-licensed professional engineer or architect under the laws of the State of California, and I am not providing this information for the purpose of circumventing the requirements of the California Building Code or the California Code of Regulations.

3. The design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

4. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

5. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

6. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

7. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

8. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

9. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

10. The building design, construction and performance specifications, materials, components, and manufacturing processes for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code or the California Code of Regulations.

Responsible Designer Name: Monica Hansen

Signature Date: 7/7/23

Signature: [Signature]

Address: 12875 Brookprinter Pl, Suite 300, Poway, CA 92064

City/State/Zip: Poway, CA 92064

Phone: 858-679-4030

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MARK	DATE	DESCRIPTION

PROJECT NO: 23-003
MODEL FILE:
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PLOT DATE:
10/20/2023
SHEET TITLE

TITLE 24 FORMS

E-1.3

1 NEW WORK FLOOR PLAN

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

LIGHTING FIXTURE SCHEDULE																	
Mark	Approved Manufacturer's (See Key Note No. 1)	Catalog Series Type (See Key Note No. 2)	FIXTURE					LAMP		MOUNTING				Description			
			Incandescent	Fluorescent	Low-Pressure Sodium	High-Pressure Sodium	LED	Volts	Lamps Watts	No.	Type	Recessed / Ceiling	Surface / Ceiling		Recessed / Wall	Surface / Wall	Pole
A	LITHONIA	2VTL 2X2						120									
	DAY-BRITE	FLUXGRID LED 2X2															
	COLUMBIA	LTGR22						208									
								277	39w								
A								480		<input type="checkbox"/> Provide Emergency Ballast Type 'EM'	<input type="checkbox"/> Provide Custom Color Finish, to be selected at time submitted	<input checked="" type="checkbox"/> See Detail					
B	PINNACLE ARCH. LIGHTING	EDGE EV6A SERIES						120									
	MARK	SLOT 6 LED															
	LUMENWERX	VIA 5 LED (RECESSED)						208									
								277	39w								
B								480		<input type="checkbox"/> Provide Emergency Ballast Type 'EM'	<input type="checkbox"/> Provide Custom Color Finish, to be selected at time submitted	<input type="checkbox"/> See Detail					
D								120									
								208									
								277	45w								
								480		<input type="checkbox"/> Provide Emergency Ballast Type 'EM'	<input type="checkbox"/> Provide Custom Color Finish, to be selected at time submitted	<input checked="" type="checkbox"/> See Detail					
SS	HUBBELL	GEOPACK SERIES TRP2						120									
	LITHONIA	WST LED SERIES						208									
								277	28								
								480		<input type="checkbox"/> Provide Emergency Ballast Type 'EM'	<input type="checkbox"/> Provide Custom Color Finish, to be selected at time submitted	<input type="checkbox"/> See Detail					
X	LIFELINE	LEX SERIES						120									
	MERIT	P180 SERIES							N/A								
	LIGHTOLIER	TE SERIES						208									
								277	N/A								
X								480		<input type="checkbox"/> Provide Emergency Ballast Type 'EM'	<input type="checkbox"/> Provide Custom Color Finish, to be selected at time submitted	<input type="checkbox"/> See Detail					

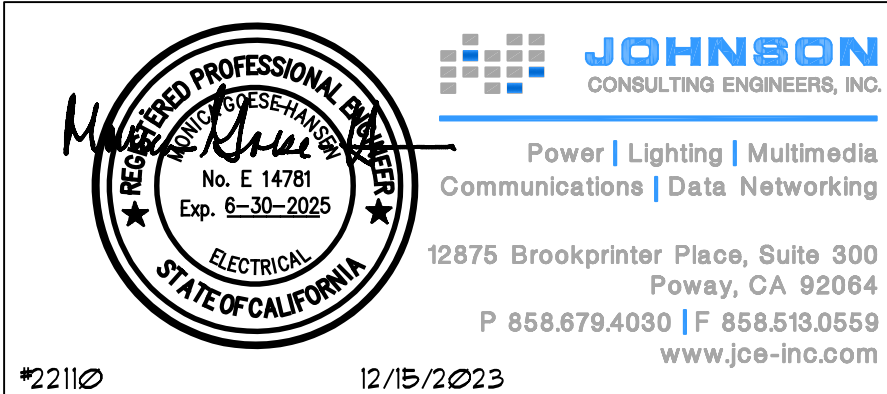
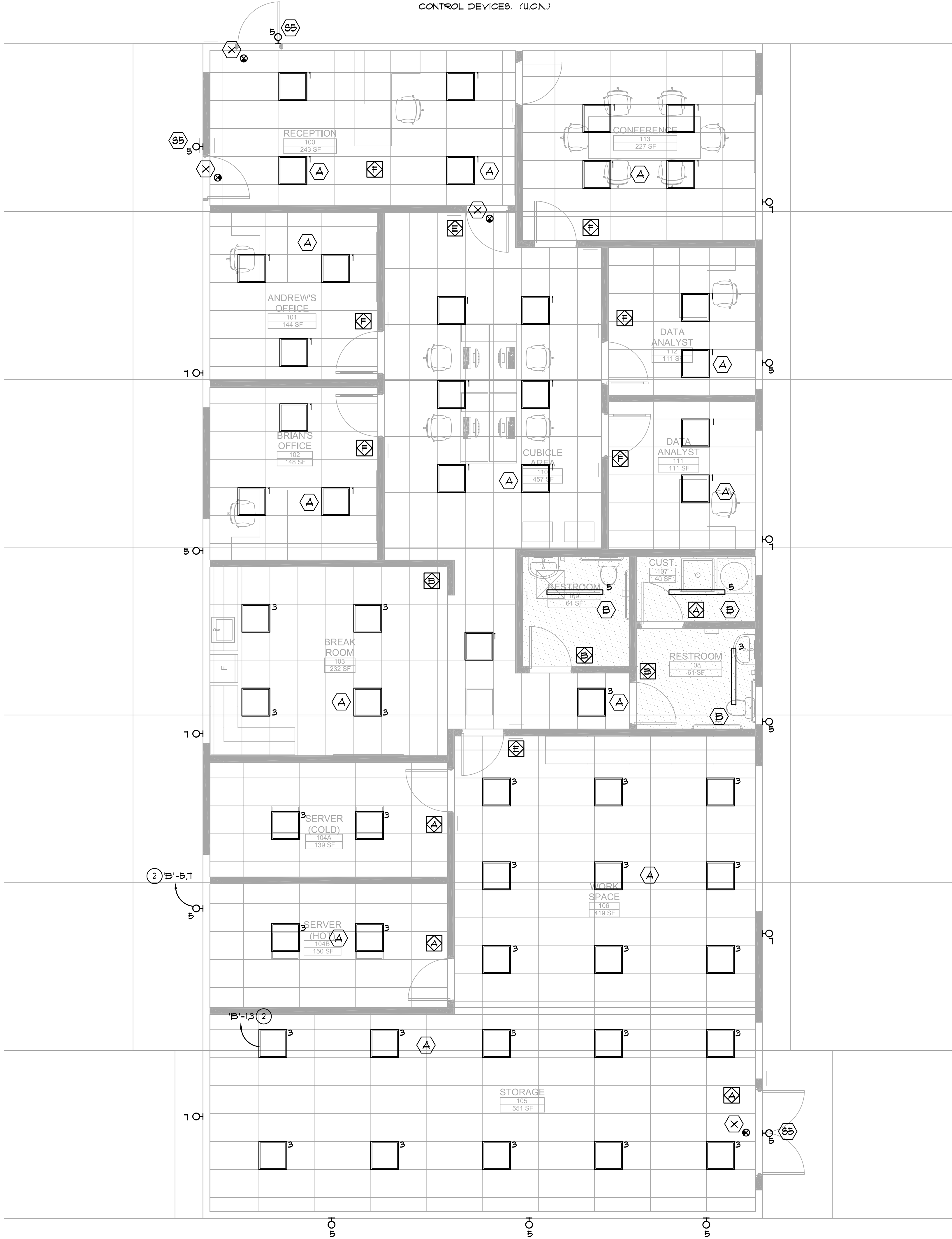
- LIGHTING FIXTURE SCHEDULE KEY NOTES:
- ALTERNATE MANUFACTURER'S TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURER'S MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 12 HOURS FOR ENGINEER REVIEW AND APPROVAL). (WHERE NO KNOWN EQUAL IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED).
 - COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.

GENERAL NOTES:

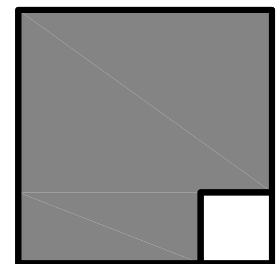
- REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES, DIGITAL LIGHTING CONTROL DEVICE SYMBOLS AND LEGENDS AND FOR TYPICAL DETAILS.
- LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
- CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
- PROVIDE MINIMUM 3/4" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (UON)

KEY NOTES:

- SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
- 2 #2 (HOT), 1 #10 (NEUTRAL), 1 #2 (GND), 3/4" C.
- 3 #2 (HOT), 1 #10 (NEUTRAL), 1 #2 (GND), 3/4" C.
- 4 #2 (HOT), 2 #10 (NEUTRAL), 1 #2 (GND), 3/4" C.



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MARK	DATE	DESCRIPTION

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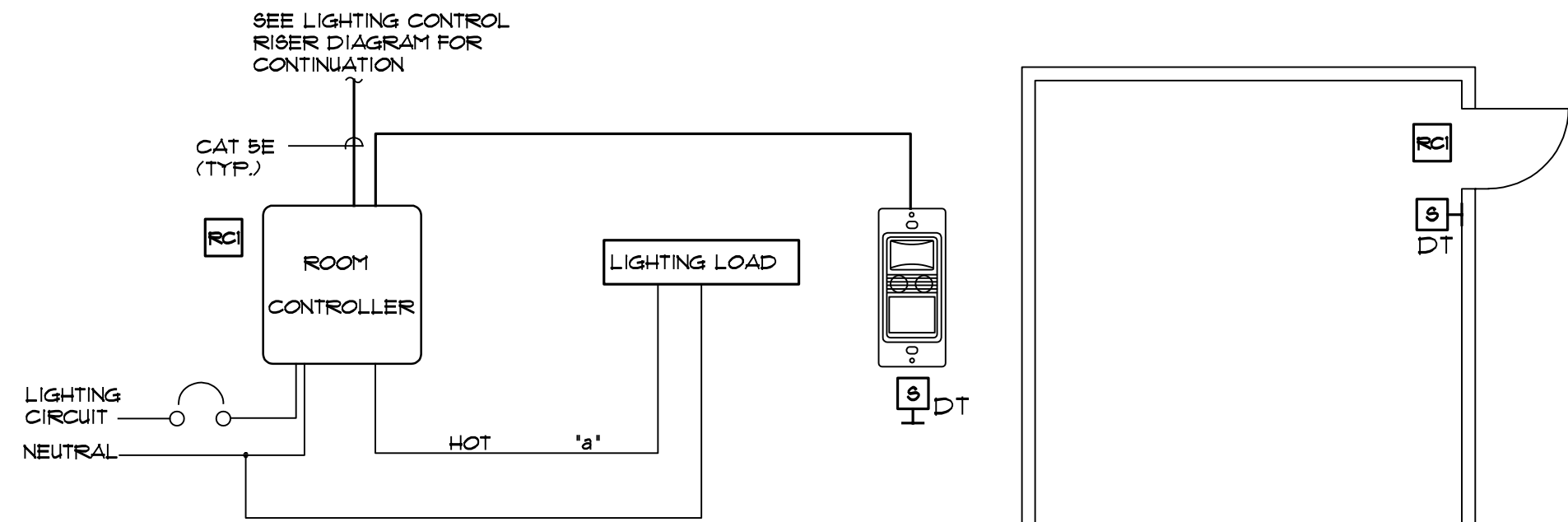
MODEL FILE:
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PLOT DATE:
10/20/2023

SHEET TITLE

FLOOR PLAN - LIGHTING

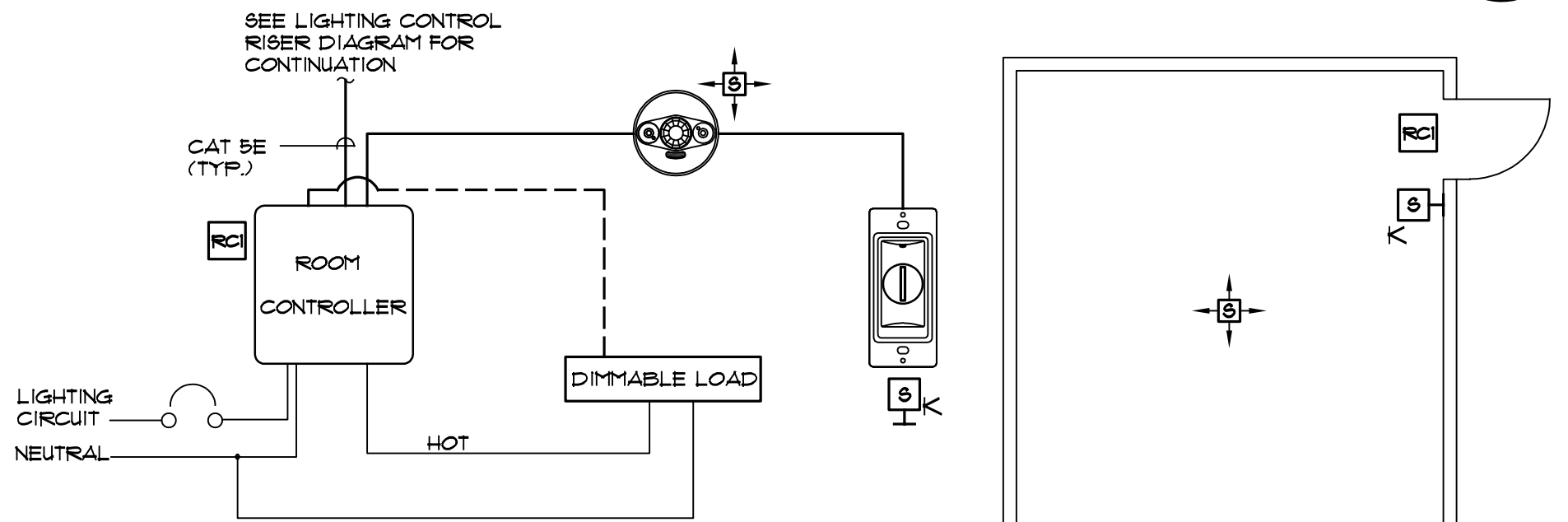
E-2.1



TYPICAL ROOM TYPE - STORAGE

NO SCALE

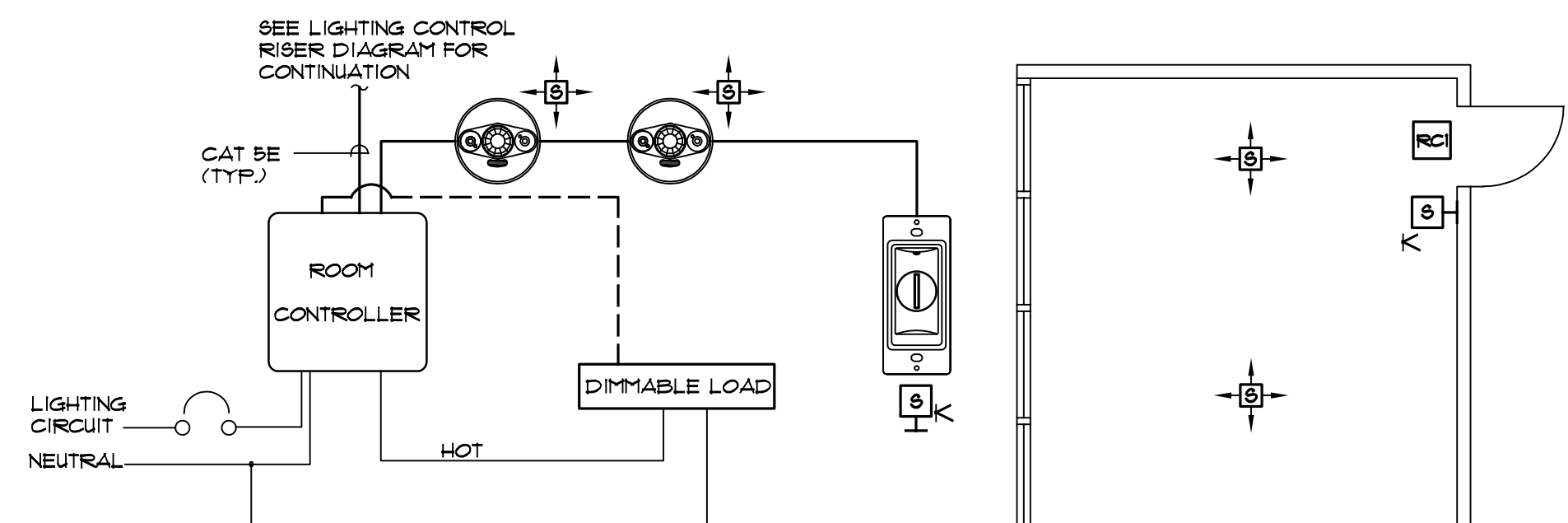
1
E2.2



TYPICAL ROOM TYPE - RESTROOM

NO SCALE

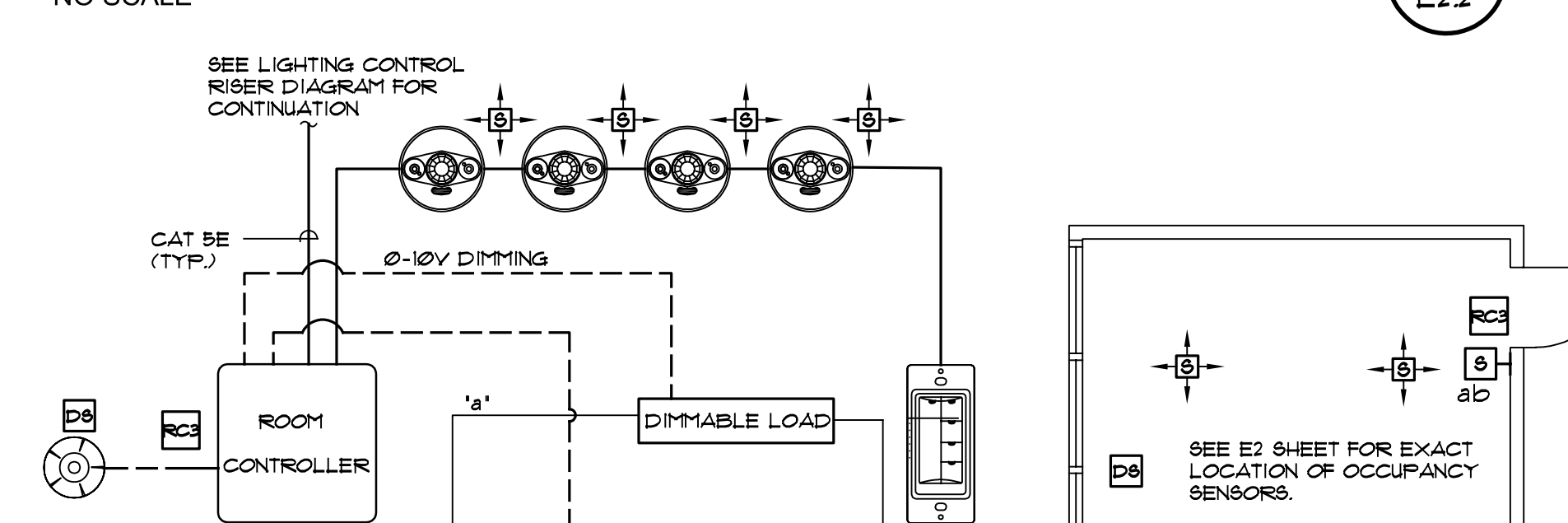
2
E2.2



TYPICAL ROOM TYPE - RESTROOM

NO SCALE

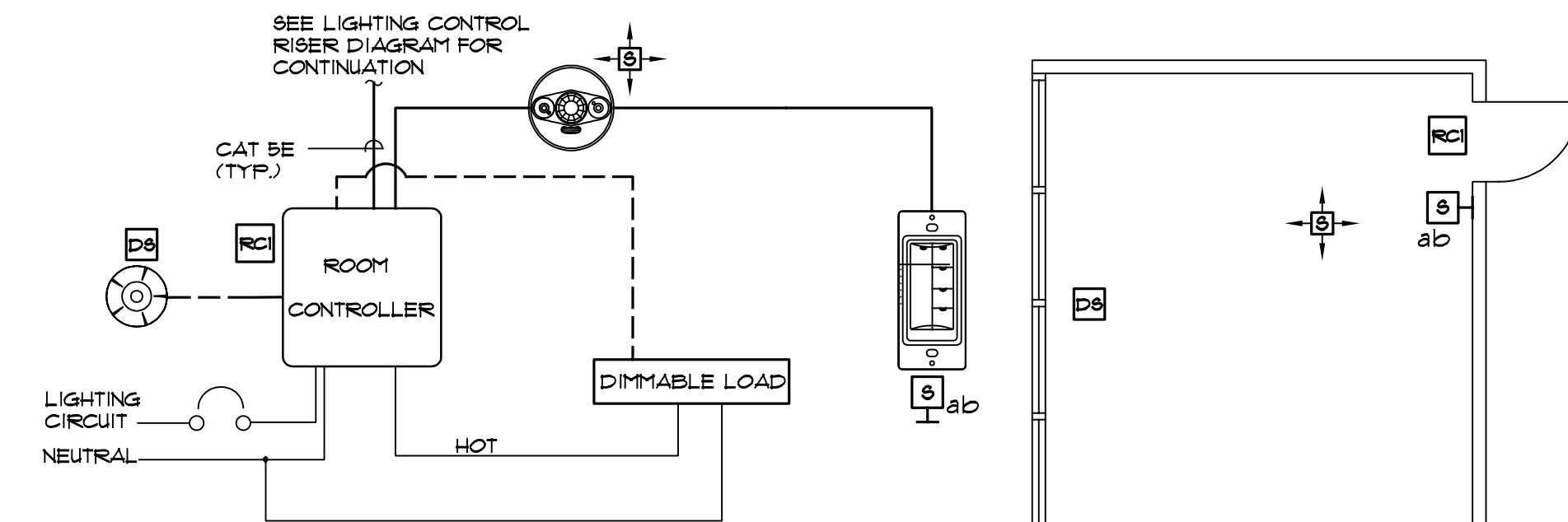
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E2.2



TYPICAL ROOM TYPE - OFFICE

NO SCALE

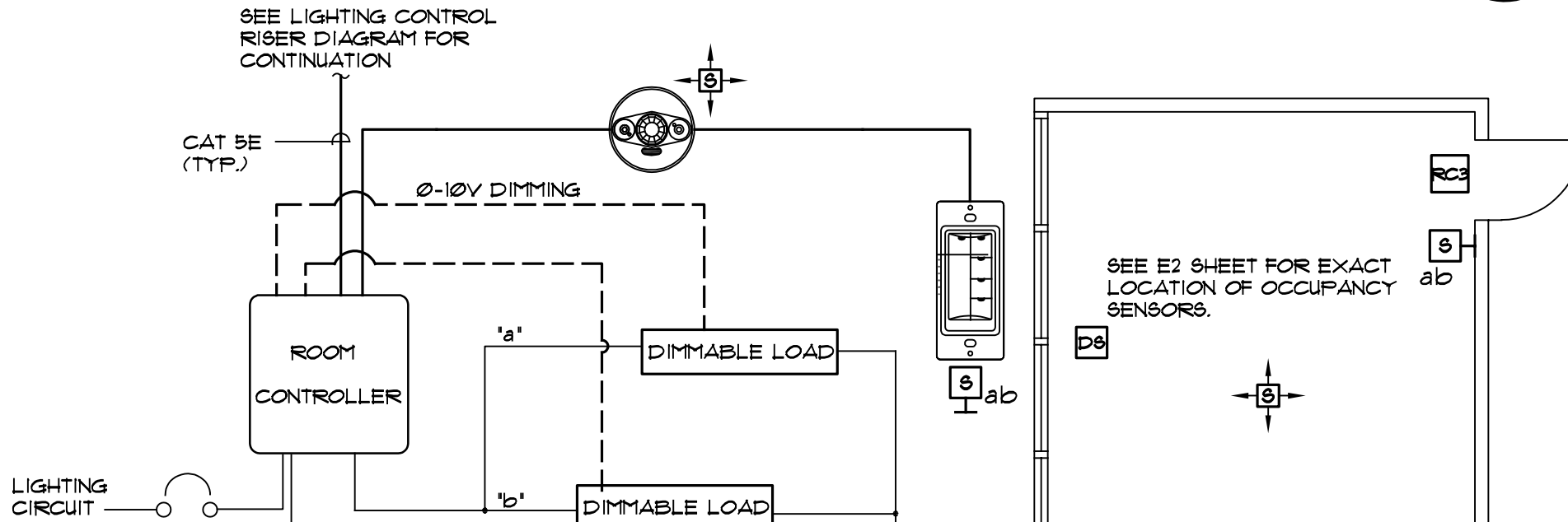
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E2.2



TYPICAL ROOM TYPE - OFFICE

NO SCALE

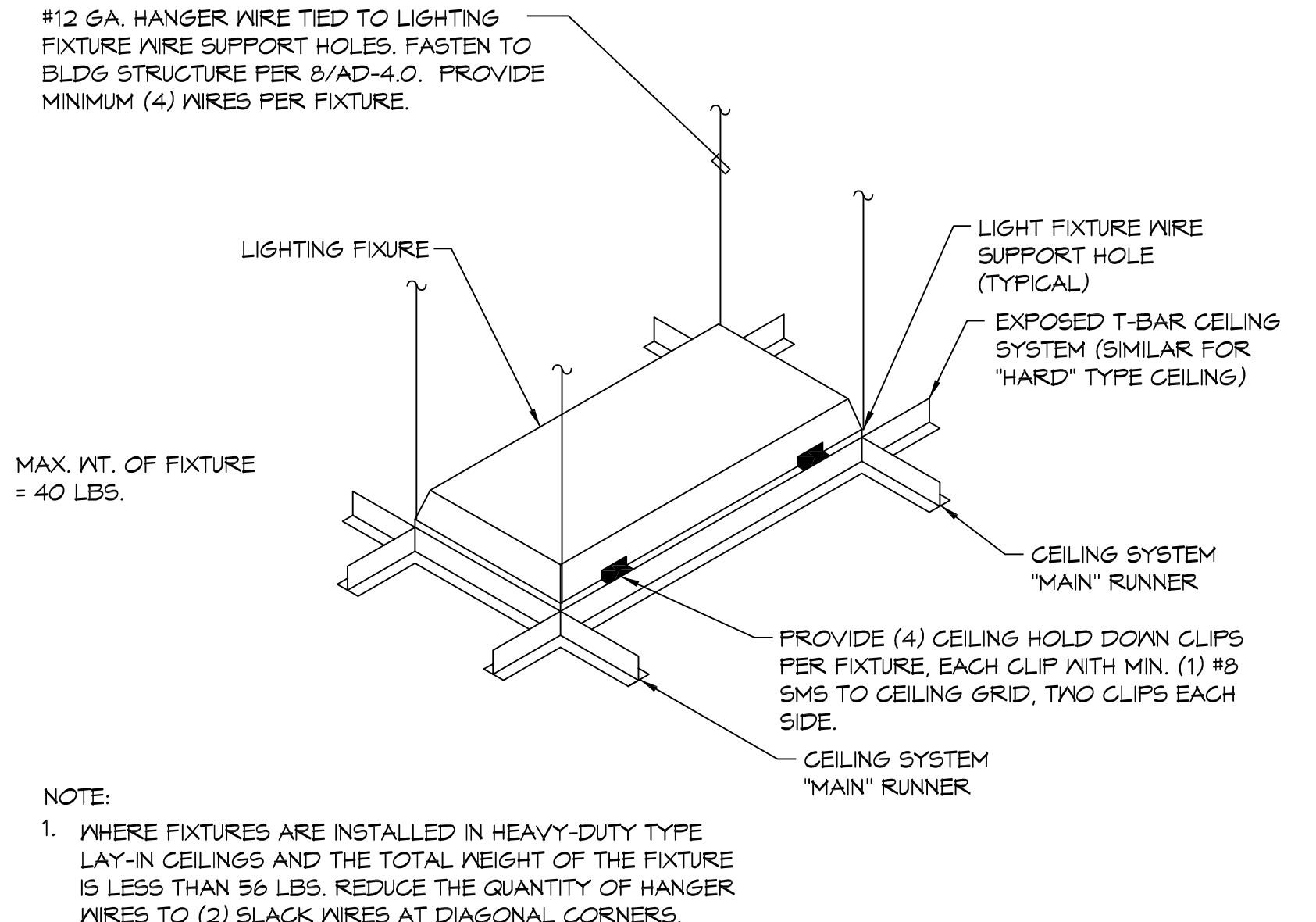
5
E2.2



TYPICAL ROOM TYPE - KITCHEN

NO SCALE

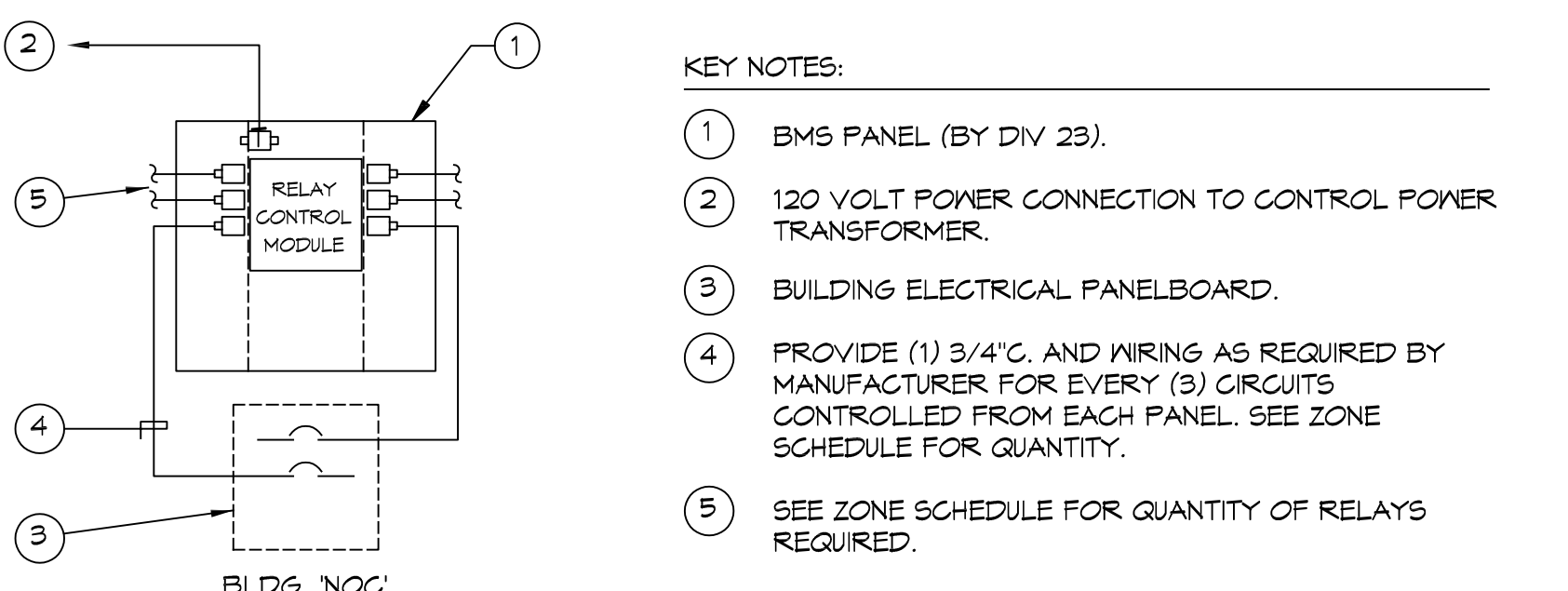
6
E2.2



FLUORESCENT FIXTURE SEISMIC RESTRAINT DETAIL - TYPICAL

NO SCALE

7
E-2.2



MASTER LIGHTING CONTROL ZONE SCHEDULE									
ZONE	ZONE DESCRIPTION	BLDG. A	PANELBOARD CIRCUITS CONTROLLED						
			A-5						
A	LIGHTING	A-5							
B	EXTERIOR LIGHTING	A-7							
C	SPARE								
D	SPARE								
E									
F									
G									

MASTER LIGHTING CONTROL DIAGRAM

NO SCALE

8
E-2.2

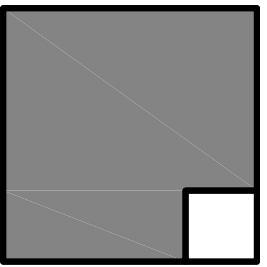
SYMBOL LENGEND

- WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
- WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
- CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY)
- WALL MOUNTED OCCUPANCY SENSOR (DUAL TECH) +84" U.O.N.
- SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
- SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
- SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
- PLUG LOAD CONTROLLER
- DAYLIGHT SENSOR
- 4 SCENE DIMMING CONTROL STATION
- MANUAL ON AND OFF KEY SWITCH
- MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
- MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b'
- MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b' & 'c'
- MAIN ENTRY MANUAL DIMMERS FOR ZONE 'a', 'b' & 'c'

GENERAL NOTES

- REFERENCE SPECIFICATION SECTION 26-0330 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
- ITEMS TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILINGS.
- ITEMS TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILINGS.
- ALL 0-10V WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
- WHERE CEILING HEIGHT EXCEED 11'-0" OR ROOM HAS EXPOSED CEILING PROVIDE TYPE SENSOR MOUNTED ON WALL IN PLACE OF CEILING SENSOR.
- WHERE OCCUPANCY SENSORS AND DAYLIGHT SENSORS ARE SHOWN ON PLAN IN SPECIFIC ROOMS, FOLLOW FOLLOW FLOOR PLAN FOR QUANTITY AND LOCATION OF SENSOR LOCATIONS.

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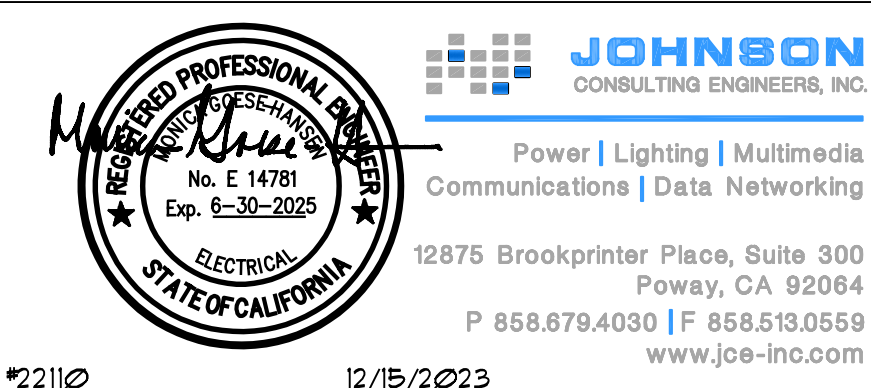
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PLOT DATE:
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SHEET TITLE

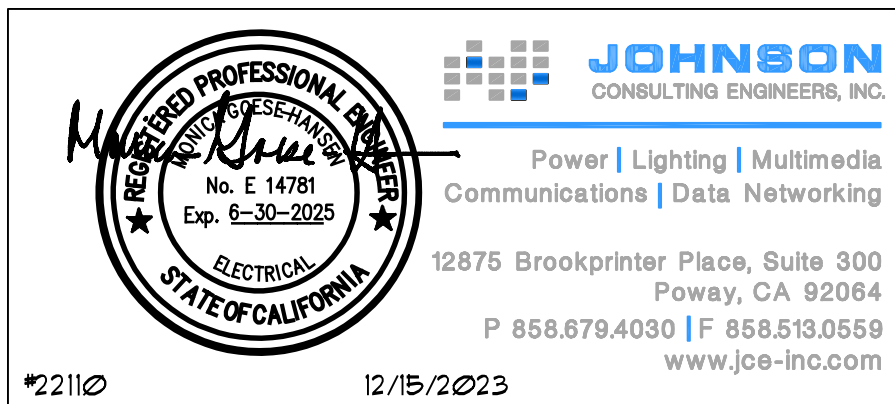
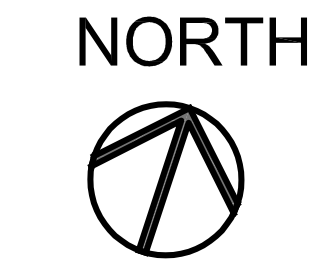
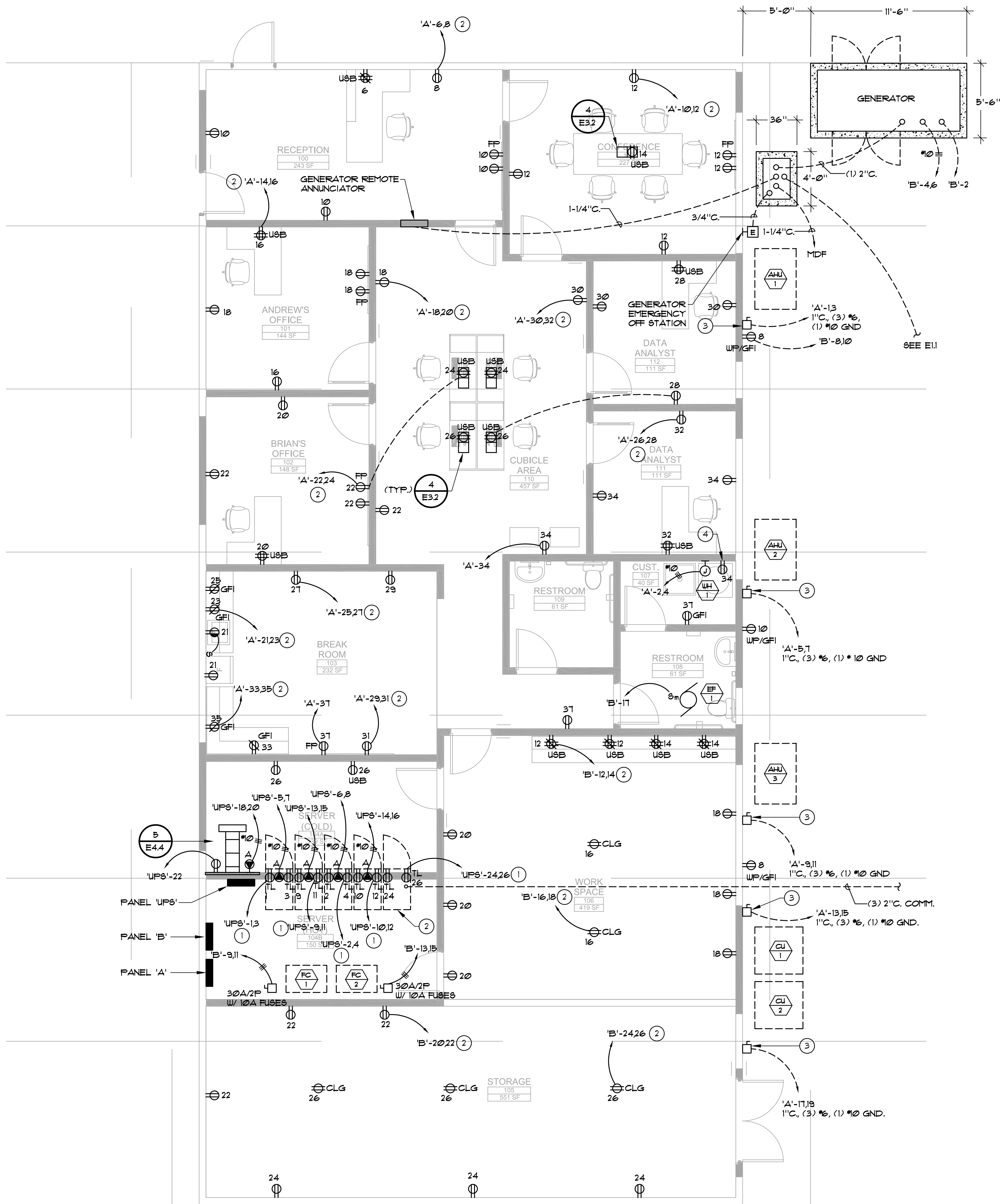
LIGHTING CONTROL DIAGRAMS

E-2.2



1 NEW WORK FLOOR PLAN

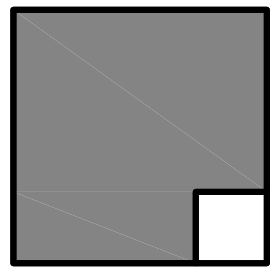
SCALE: 1/4" = 1'-0"



KEY NOTES:

- (2) #12 (HOT), (1) #10 (NEUTRAL), (1) #2 (GND), 3/4" C.
- DISTRICT FURNISHED AND INSTALLED EQUIPMENT RACK (TYP. OF 5)
- 60A/2P/3R DISC. FIELD VERIFY FUSES REQUIRED.
- CIRC. PUMP. FIELD VERIFY LOCATION.

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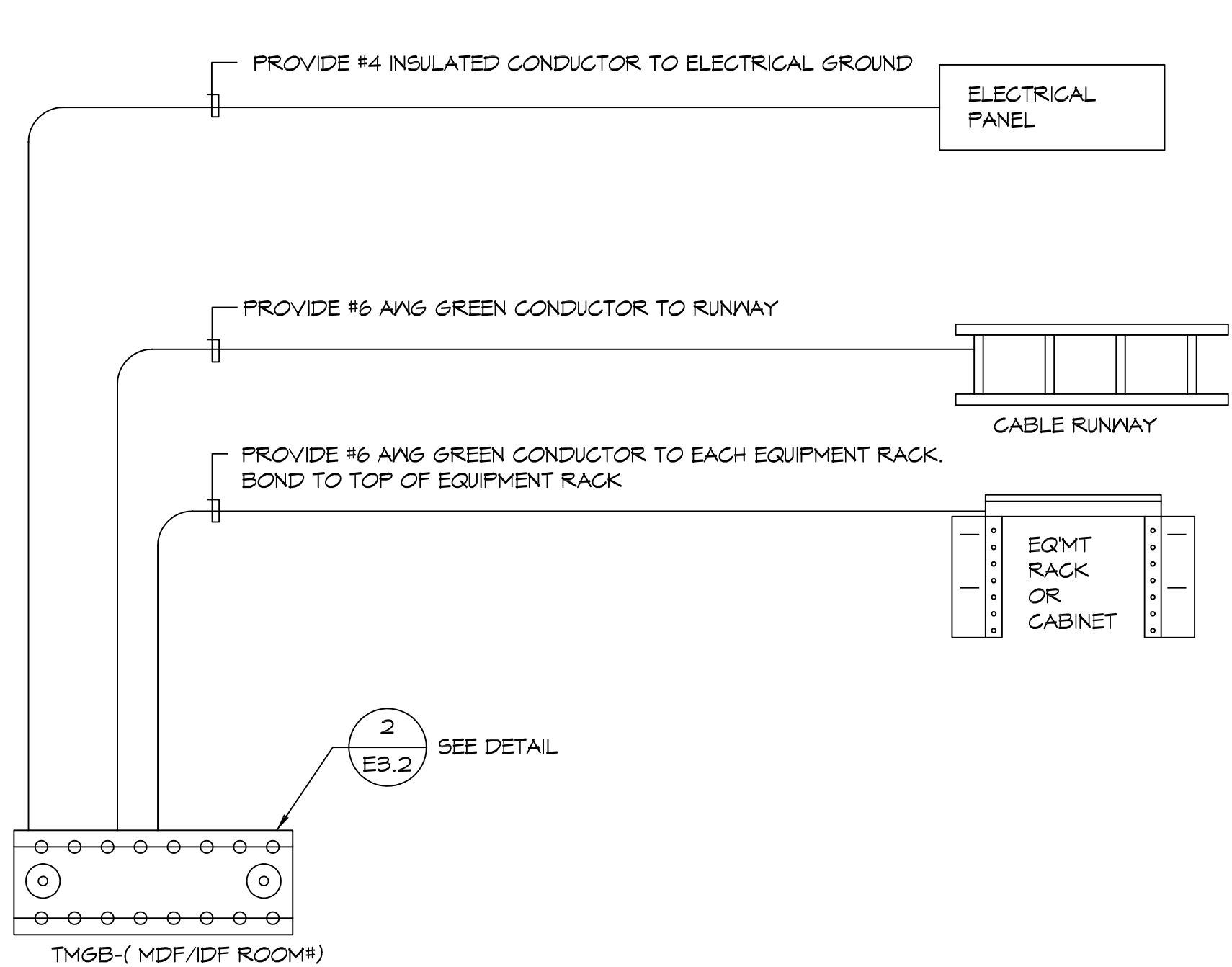
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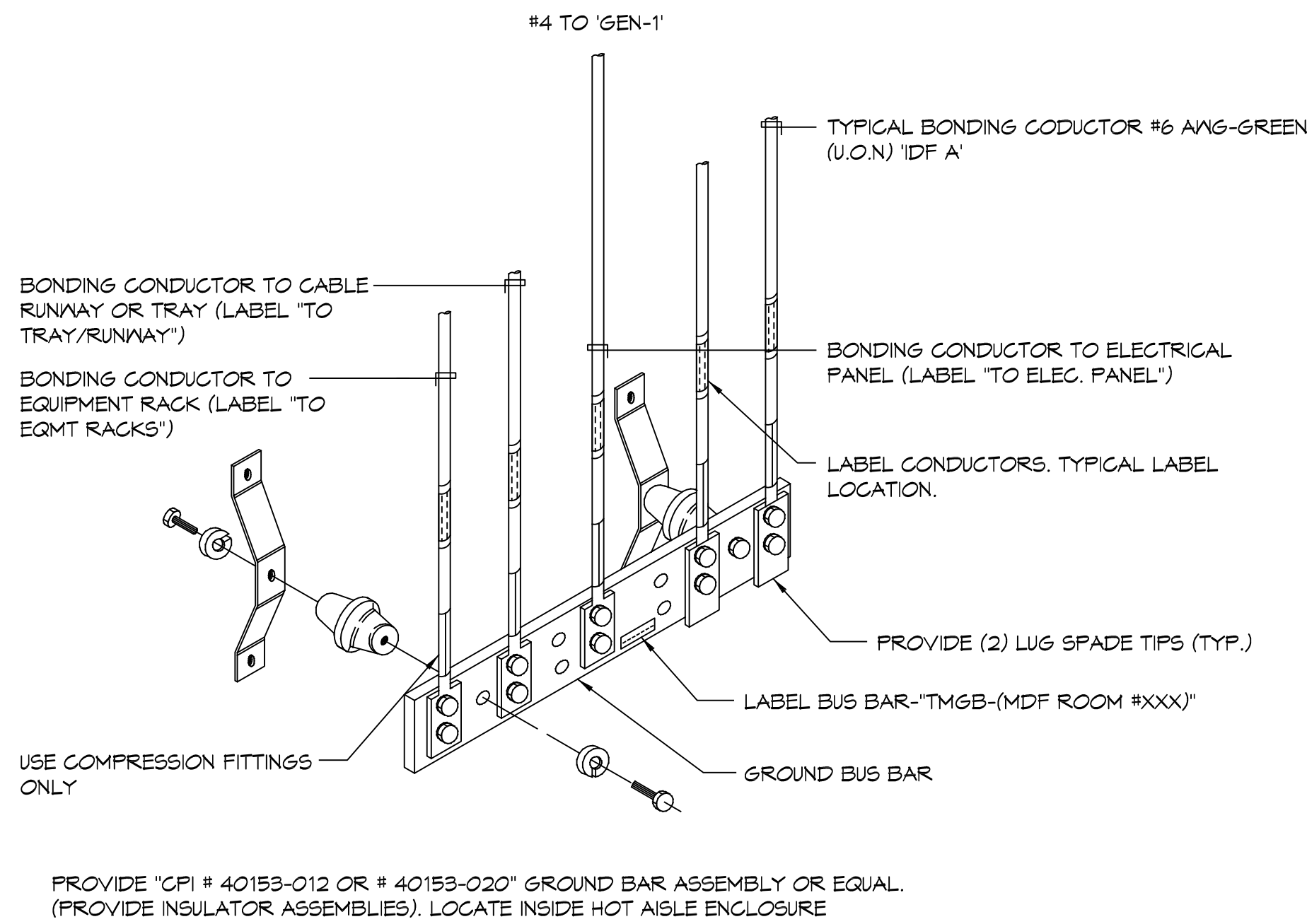
FLOOR PLAN - POWER

E-3.1



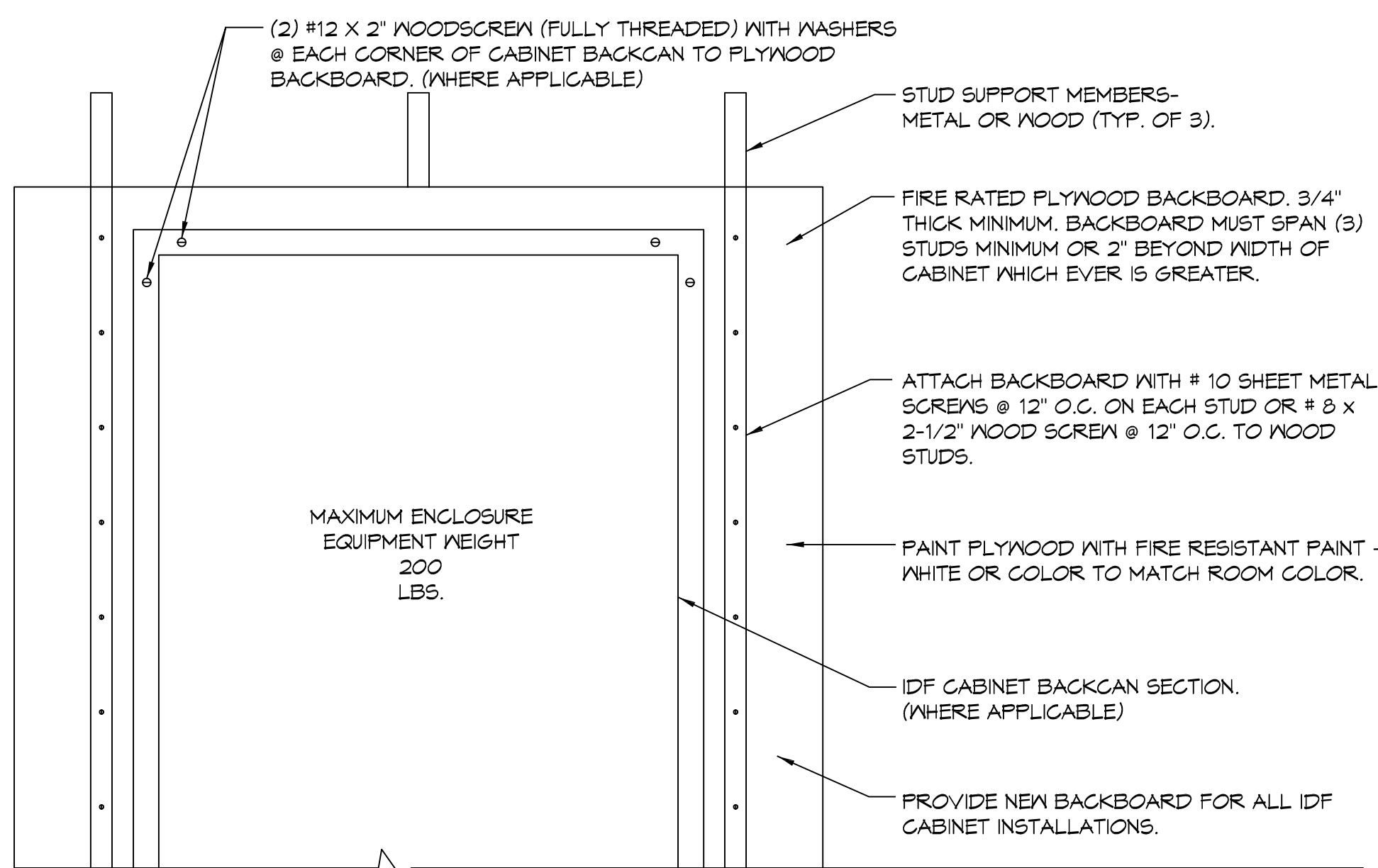
TYPICAL HOT AISLE/IDF ROOM GROUNDING DETAIL
NO SCALE

1
ES.2



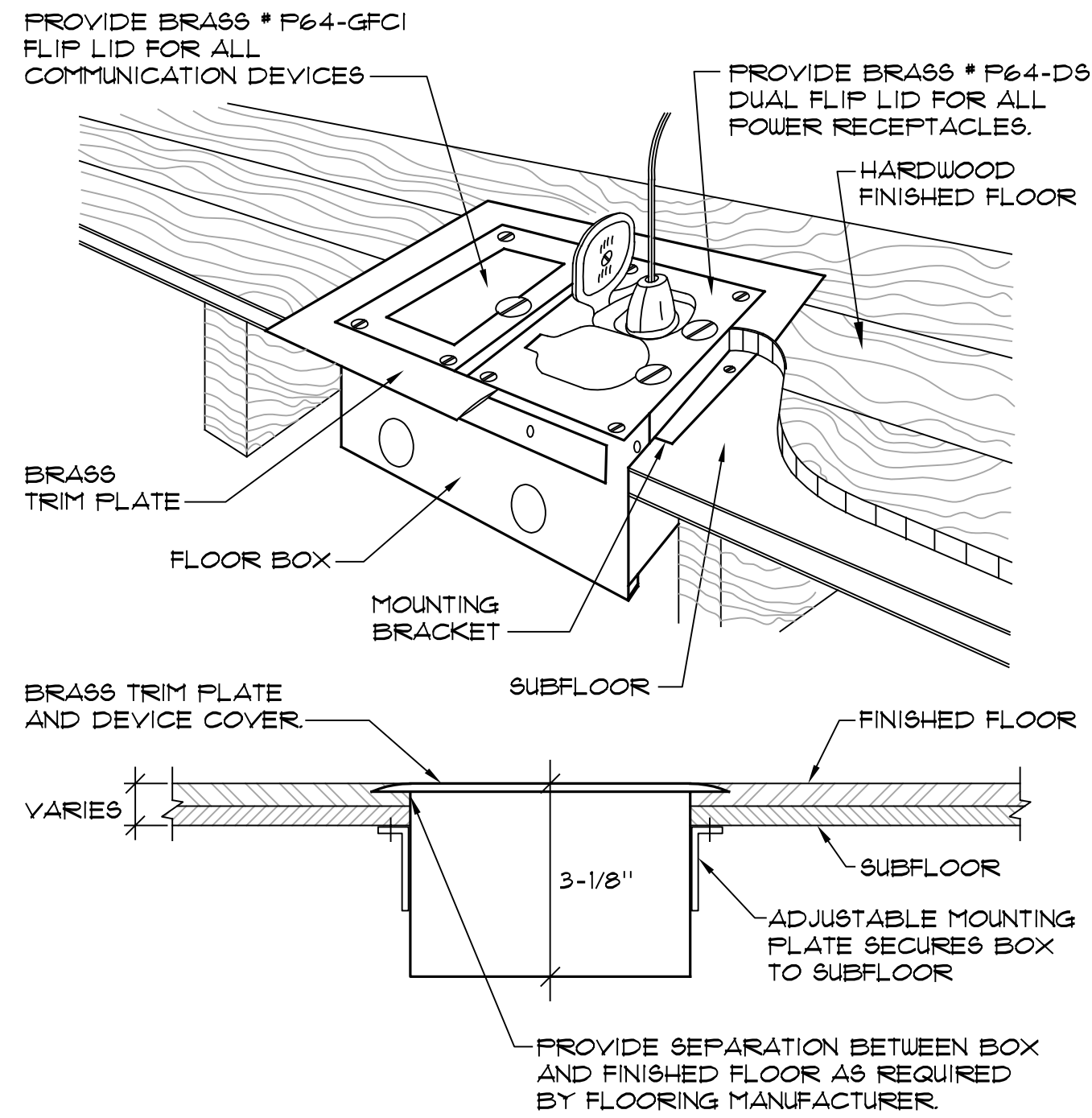
DATA/COMMUNICATIONS GROUNDING DETAIL
NO SCALE

2
ES.2



TYPICAL BACKBOARD DETAIL
NO SCALE

3
ES.2

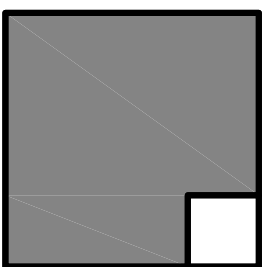


- NOTES:
1. CONTRACTOR TO COORDINATE WITH FLOORING CONTRACTOR PRIOR TO ROUGH-IN FOR FINAL FINISHED FLOOR HEIGHTS. TRIM PLATE SHALL BE CUSTOM FIT INTO FINISHED FLOOR MATERIAL TO BE FLUSH WITH FINISHED FLOOR HEIGHT.
 2. PROVIDE "STEEL CITY" # 61-W (SINGLE GANG), # 62-W (DOUBLE GANG) STAMPED STEEL FLOOR BOX. SEE FLOOR PLAN FOR TYPE AND QUANTITY OF BOXES REQUIRED.

FLOOR BOX DETAIL
NO SCALE

4
ES.2

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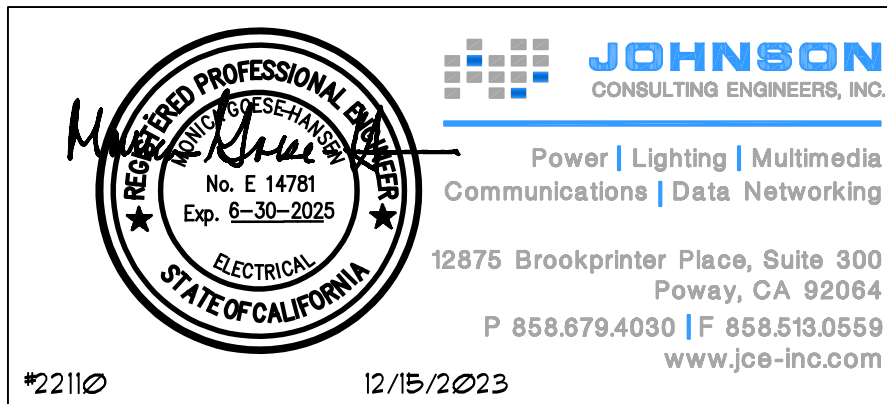
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POWER DETAILS

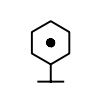
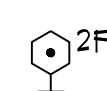
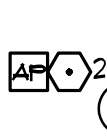
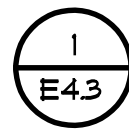

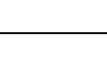
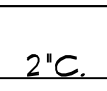
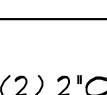
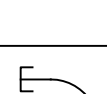
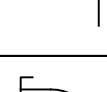
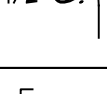
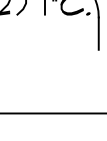


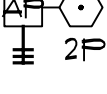
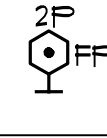
E-3.2


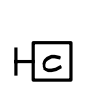


BACKBOX AND RING LEGEND	
TYPE	DESCRIPTION
'B1'	4 11/16" square 2 1/8" deep box with single gang ring.
'B2'	4 11/16" square 2 1/8" deep box with dual gang ring.
'B3'	4" square 1 1/2" deep box with single gang ring.
'B4'	Single gang box, 2 1/8" deep.
'B5'	4-11/16" square 3" deep box with dual gang ring.

'C1'	Provided by 2T 10 00 contractor.
'C2'	Provided by 2T 20 00 contractor.
'C4'	Provided by 2T 51 16 contractor.
'C5'	Provided by 20 13 00 contractor.

FACEPLATE LEGEND	
TYPE	DESCRIPTION
'AR'	As required to accommodate the number of ports designated.
'BP'	Blank faceplate.

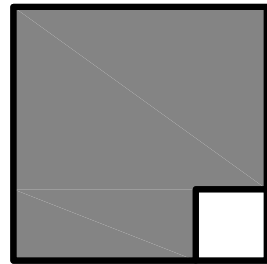
TECHNOLOGY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Single port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Surface Raceway per plan
	Dual port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Surface Raceway per plan
	Wireless access point ceiling mounted (Data from AV enclosure)	See detail 	See detail 	Not required in accessible ceiling.
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	3/4" for open low voltage wiring.
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) Conduit for open low voltage wiring, size as indicated.
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring, size and quantity as indicated.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) 3/4" conduit for open low voltage wiring.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) conduit for open low voltage wiring, size as indicated.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring, size and quantity as indicated.
	Dual port data outlet for exterior wireless access point @10'-0" AFG (U.O.N.) wall mounted.	See detail 	See detail 	Not required in accessible ceiling.
	DUAL PORT DATA OUTLET FOR FLAT PANEL +60" AFF. WP=Weather Proof	Type 'B1'	Type 'AR'	1" C.
	FOUR PORT DATA OUTLET +18" AFF (U.O.N.)	Type 'B2'	Type 'AR'	1" C.

COMMUNICATION / SECURITY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	CEILING CAMERA	Type 'B1'	Type 'BP'	
	EXTERIOR WALL CAMERA 12" BELOW TOP OF WALL	Type 'B1'	Type 'BP'	3/4" C.

GENERAL NOTES:

- ALL CONDUITS WHICH ARE REQUIRED AS A PART OF SYSTEMS SPECIFIED FOR COMMUNICATIONS, TELEPHONE, INTERCOM, CLOCK FIRE ALARM, SECURITY, SOUND SYSTEMS, DATA NETWORKING, OR AUDIO-VISUAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS WITH EACH SYSTEM SUPPLIER PRIOR TO BID TO DETERMINE SPECIAL CONDUIT SYSTEM REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES FOR ALL OPEN CABLE INSTALLATIONS THROUGH RATED WALLS, BLOCK WALLS AND WHERE SHOWN ON THE DRAWINGS. PROVIDE CONDUIT FROM EACH BUILDING MAIN TERMINATION CABINET OR BACKBOARD TO THE NEAREST ACCESSIBLE CEILING FOR ACCESS INTO ALL ELECTRICAL OR COMMUNICATIONS ROOMS.
- ALL CONDUIT, BOXES, AND RINGS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL BLANK PLATES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. (UNLESS OTHERWISE NOTED.)
- ALL CONDUITS SHALL BE FURNISHED WITH FULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATION CONTRACTOR TO PROVIDE POLYARIMIO FULL TAPE WITH NEW CABLING INTO ALL CONDUITS BETWEEN BUILDINGS. SEE SPECIFICATIONS FOR REQUIREMENTS.
- CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS TO DETERMINE LOCATIONS OF ACCESSIBLE CEILINGS PRIOR TO BID.
- (21000) NUMBERS INDICATE MATCHING SPECIFICATION SECTION RESPONSIBLE FOR THIS WORK.
- IN ADDITION TO THE ABOVE REQUIREMENTS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL DATA/VOICE, PAGING, AUDIO-VISUAL, SECURITY AND CLOCK CONDUITS:
- FLEXIBLE METAL CONDUIT MAY BE USED ONLY WHERE REQUIRED AT BUILDING SEISMIC AND/OR EXPANSION JOINTS.
- ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH MINIMUM 24" RADIUS ELBOWS.
- NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED 150 FEET BETWEEN FULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.
- NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED TWO 90 DEGREE BENDS BETWEEN FULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.

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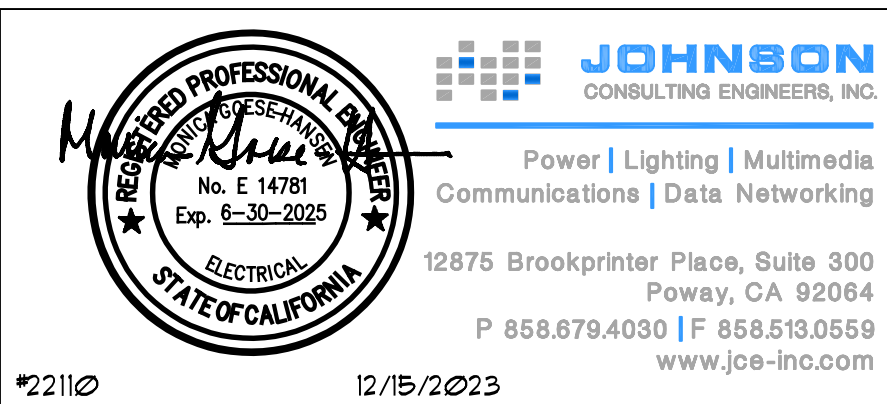
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COMMUNICATIONS
LEGEND AND NOTES

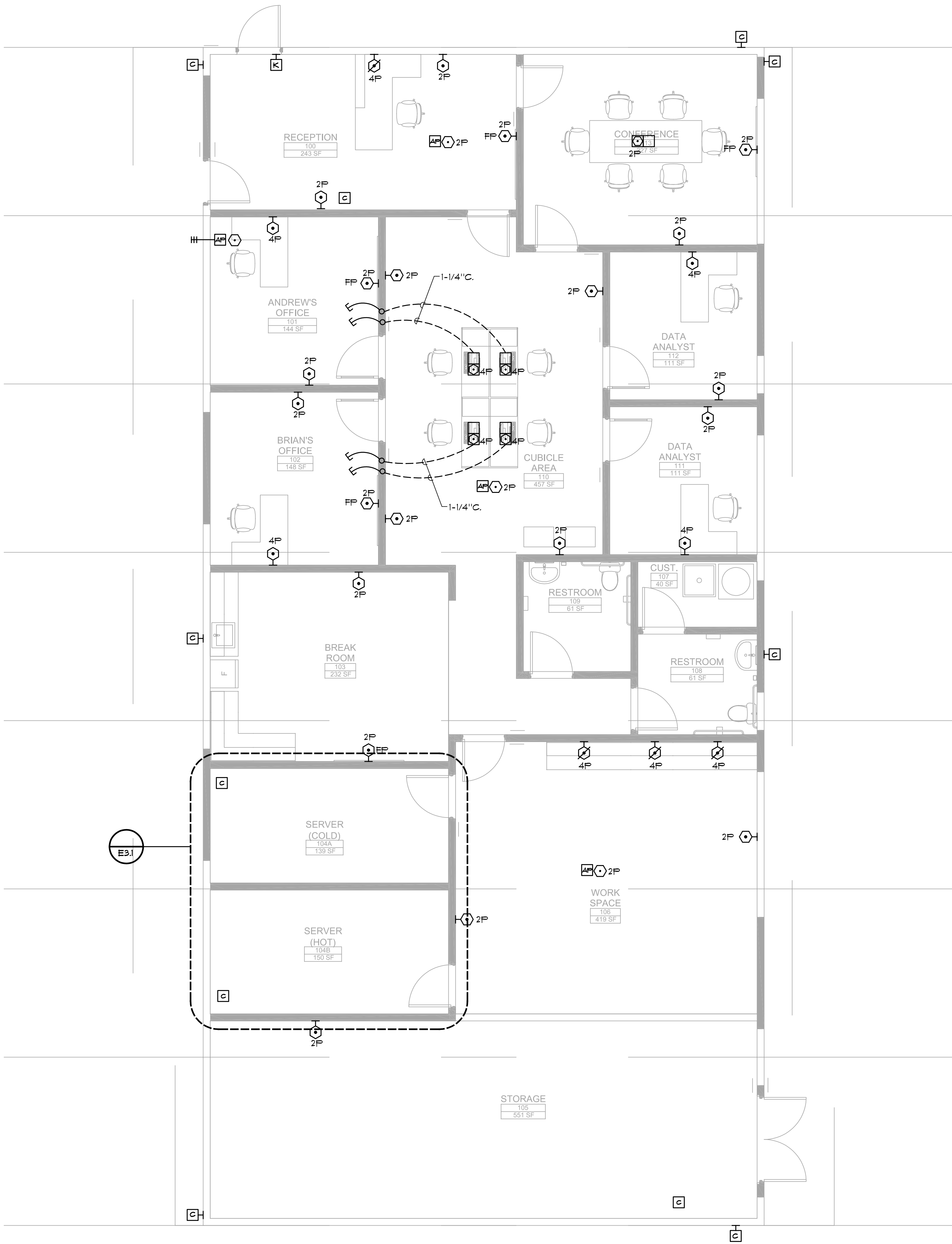
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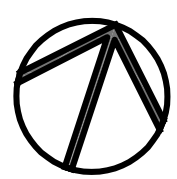
1

NEW WORK FLOOR PLAN

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



NORTH



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12/15/2023

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. REFERENCE INTERCOM SYSTEM AND SECURITY SYSTEM DIAGRAM ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
6. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

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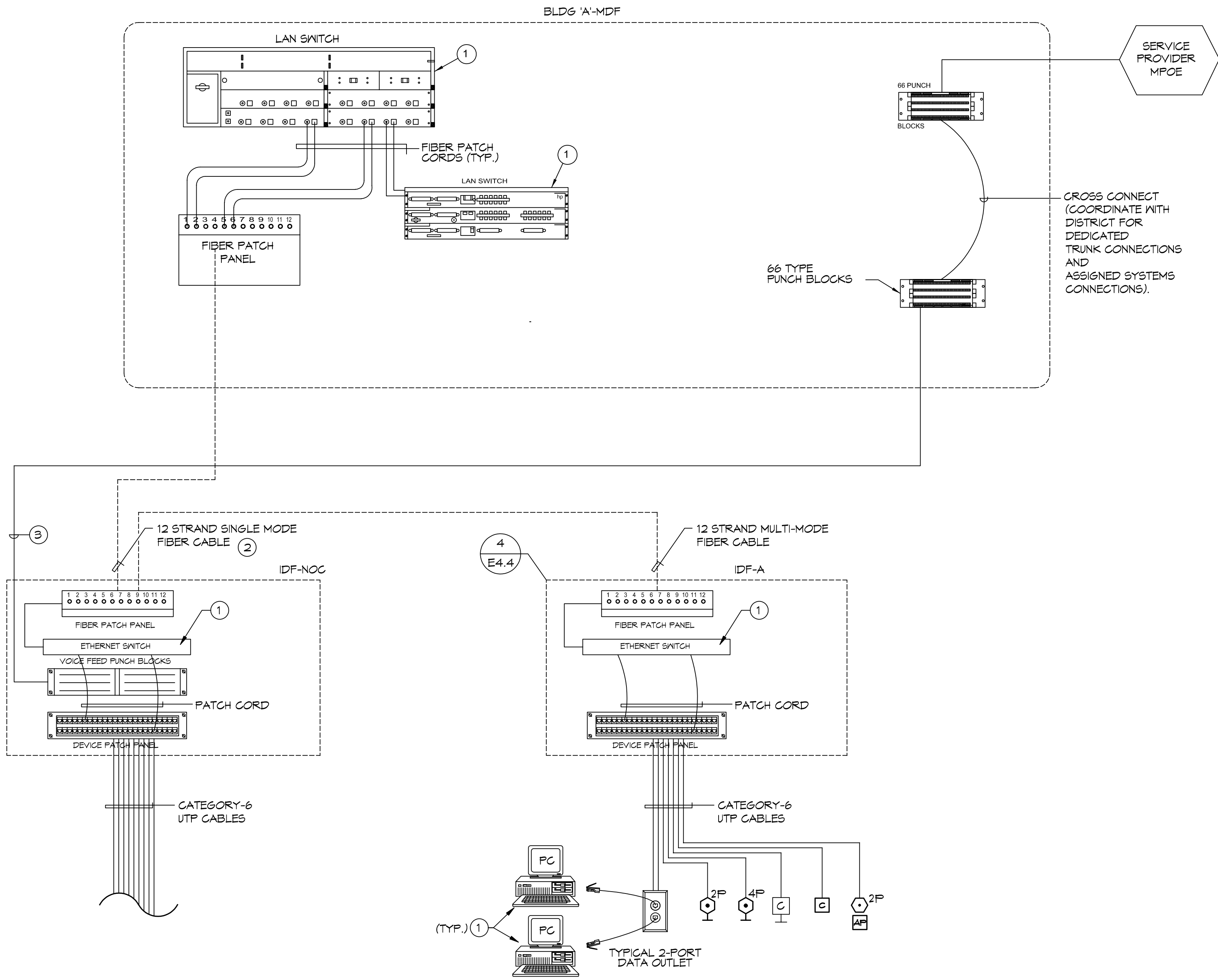
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FLOOR PLAN - COMM.

E-4.1

COMMUNICATIONS/DATA NETWORKING RISER DIAGRAM

NO SCALE



GENERAL NOTES:

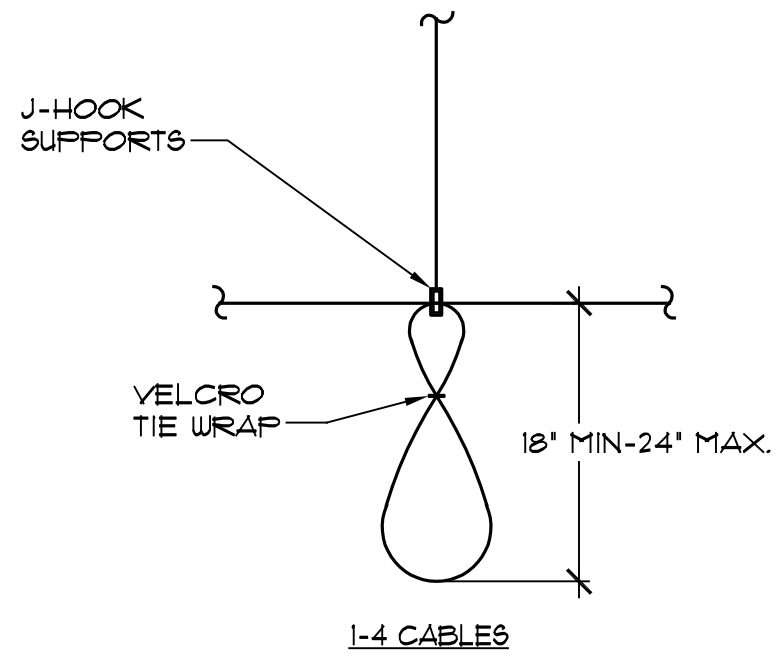
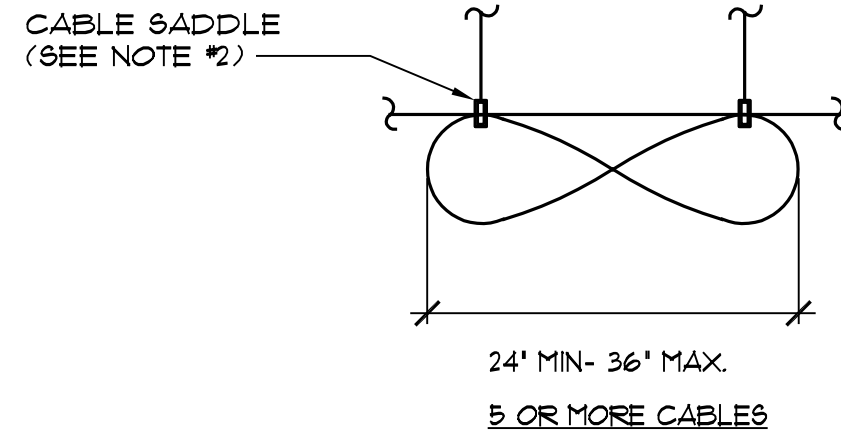
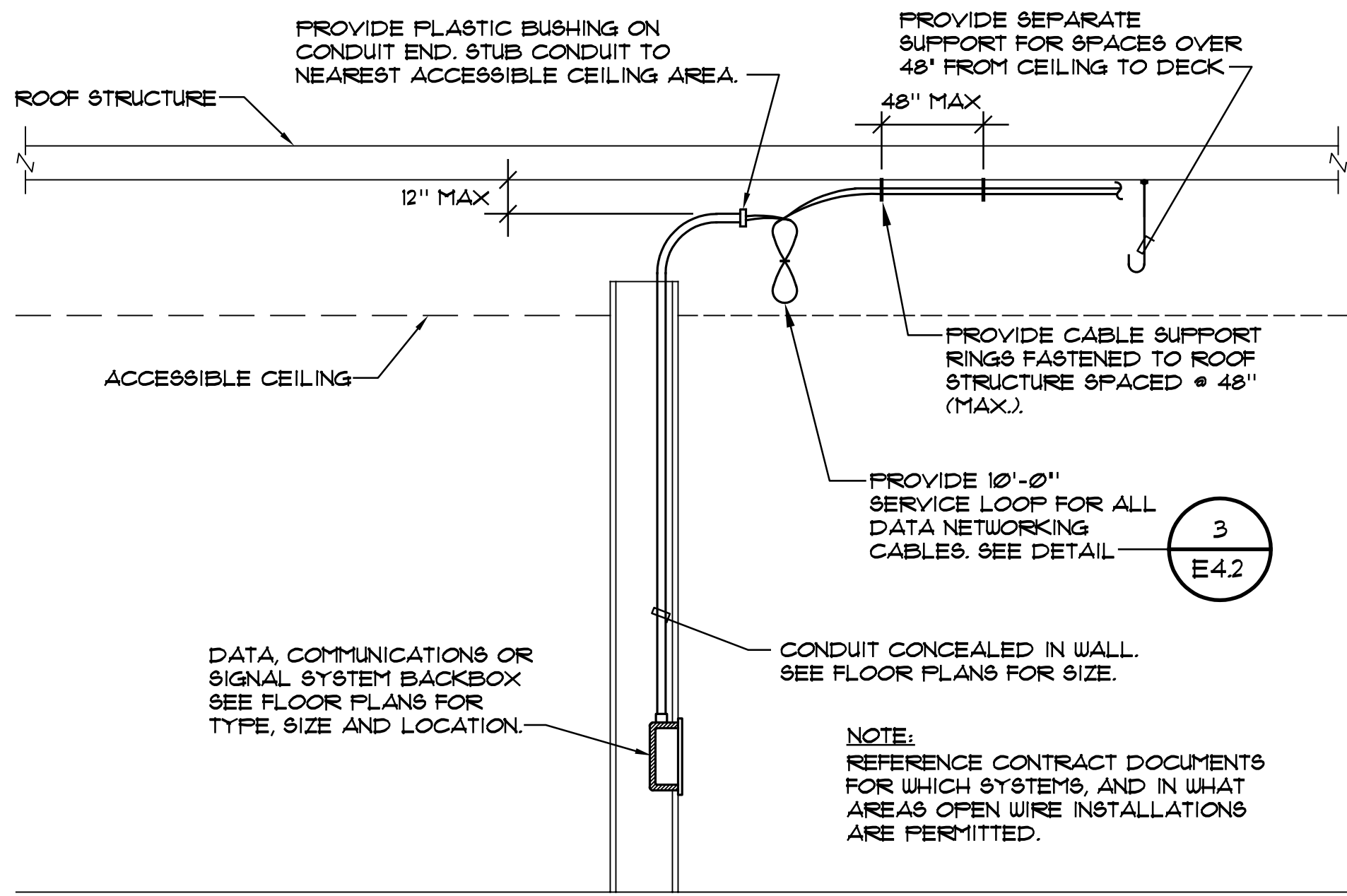
1. UNLESS OTHERWISE NOTED ALL ITEMS ARE TO BE FURNISHED AND INSTALLED BY 271000 CONTRACTOR.
2. ALL CONDUITS, POWER OUTLETS AND GROUNDING CONNECTIONS, BACKBOARDS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, AND FLOOR PLANS FOR ADDITIONAL EQUIPMENT ITEMS REQUIRED, AND THEIR LOCATIONS.
4. WHERE OPEN CONDUCTORS ARE INSTALLED ABOVE ACCESSIBLE CEILING, ALL CONDUCTORS SHALL BE NEATLY BUNDLED TOGETHER AND SUPPORTED FROM ROOF STRUCTURE. WHERE BUNDLED WITH OTHER COMMUNICATION SYSTEMS, IDENTIFYING TAGS SHALL BE PROVIDED TO IDENTIFY THESE CONDUCTORS FROM OTHER SYSTEMS.
5. CONTRACTOR TO COORDINATE QUANTITY, SIZE AND LOCATION OF CONDUIT SLEEVES THRU RATED WALLS WITH ELECTRICAL CONTRACTOR PRIOR TO BID. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AND FIRE PENETRATION SEAL AFTER CABLES ARE INSTALLED.

KEY NOTES:

- ① OWNER FURNISHED AND INSTALLED.
- ② CONNECT TO BUILDING MDF ROOM IN MAIN BUILDING SYSTEMS AS REQUIRED. SEE SITE PLAN FOR CONDUIT ROUTES AND REQUIREMENTS.
- ③ PROVIDE 12-PAIR VOICE FEED CABLE FROM IDF RACK MOUNTED TERMINATION BLOCKS TO MDF ROOM. SEE SPECIFICATIONS FOR CABLE REQUIREMENTS.

COMMUNICATIONS SYSTEM OPEN WIRE/CONDUIT STUB TYPICAL DETAIL

NO SCALE

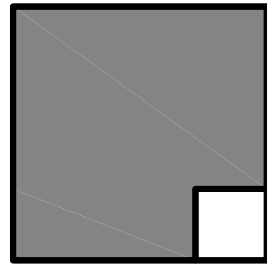


- NOTE:
1. ALL SERVICE LOOPS SHALL BE FORMED IN FIGURE 8 CONFIGURATION
 2. SADDLE SHALL BE SIZED TO HOLD QUANTITY OF CABLES REQUIRED PER MANUFACTURE REQ.

TYPICAL SERVICE LOOP

NO SCALE

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Building

LUSD Maintenance, Operations, & Transportation

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Lakeside Union School District
12335 Woodside Ave. Lakeside CA 92040

REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

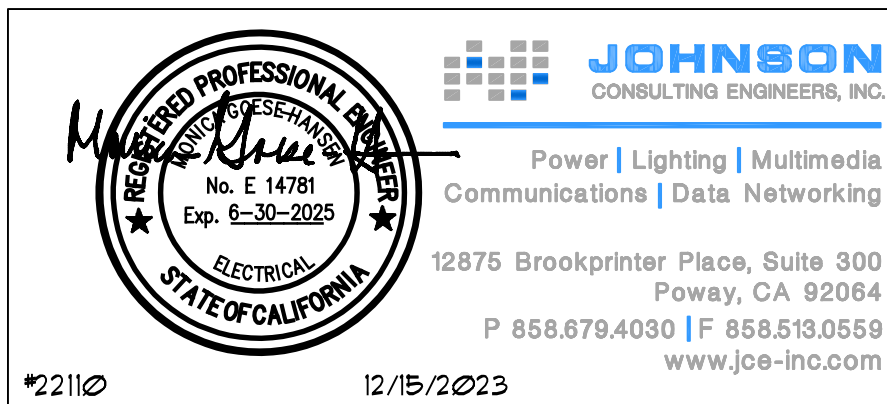
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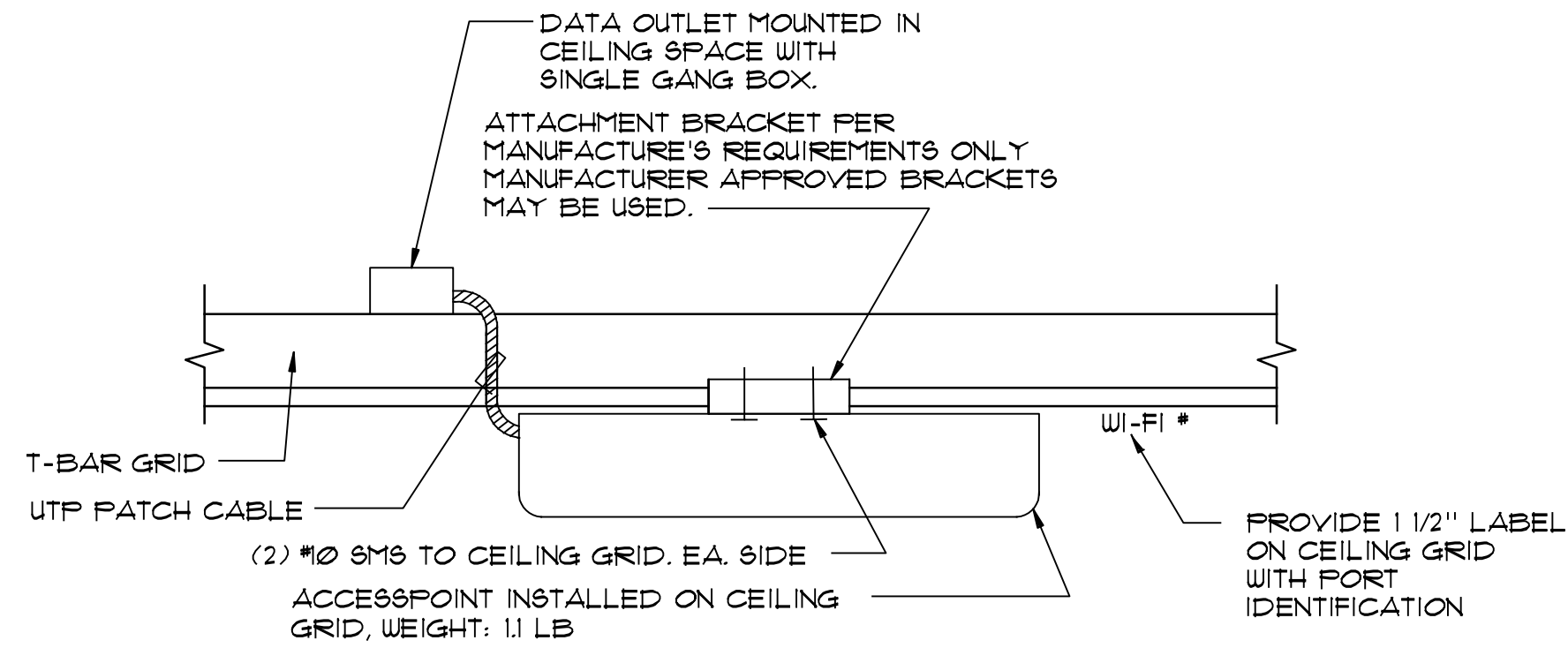
PLOT DATE:
10/20/2023

SHEET TITLE

COMMUNICATION
DETAILS

E-4.2

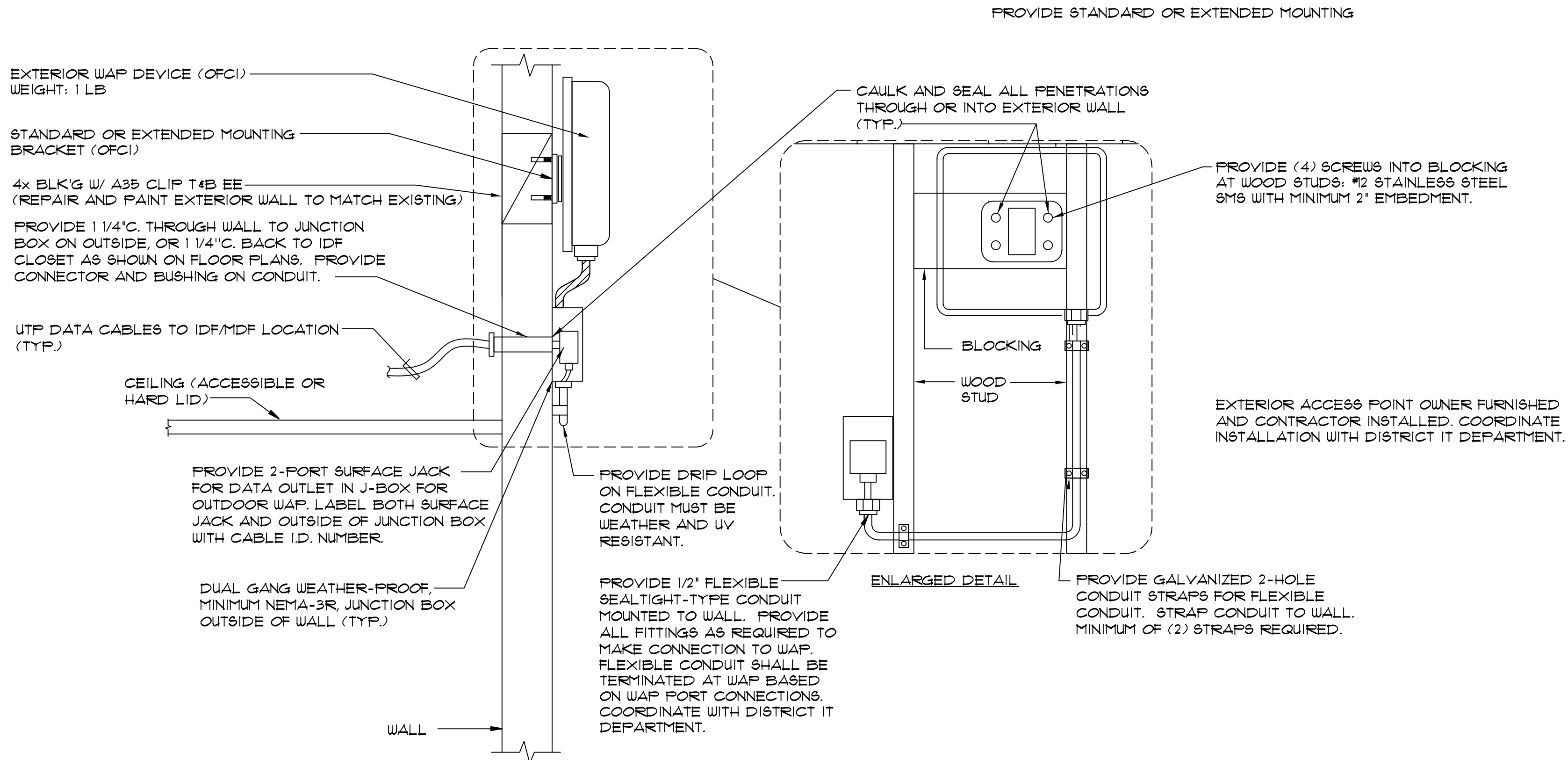




WIRELESS ACCESS POINT ANTENNA MOUNTING DETAILS

NO SCALE

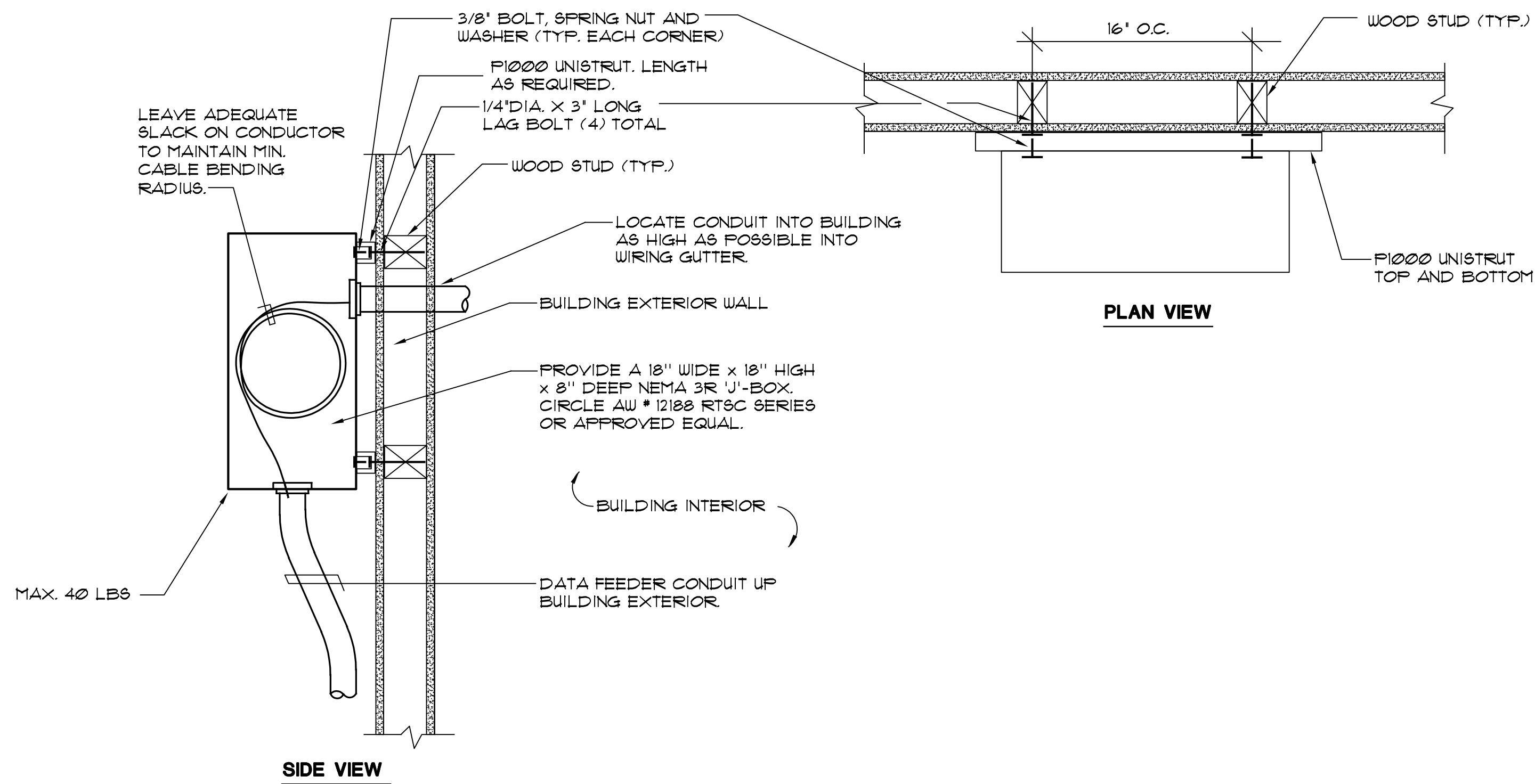
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E-4.3



EXTERIOR WIRELESS ACCESS POINT MOUNTING DETAIL

NO SCALE

2
E4.3

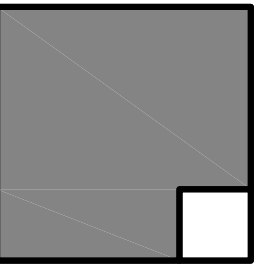


DATA SYSTEM INSTALLATION DETAIL

NO SCALE

3
E-4.3

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REVISIONS		
MARK	DATE	DESCRIPTION

PROJECT NO: 23-003

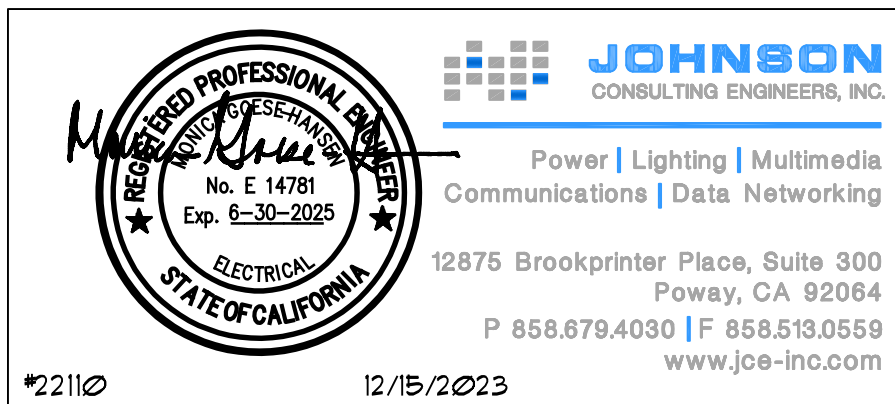
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PLOT DATE:
10/20/2023

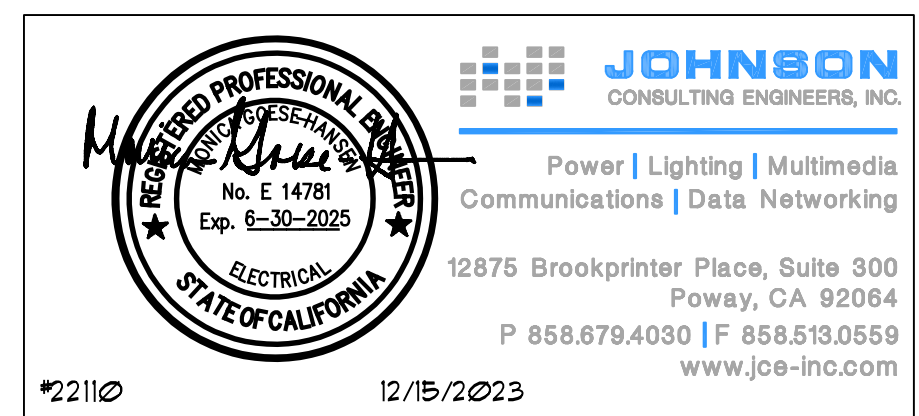
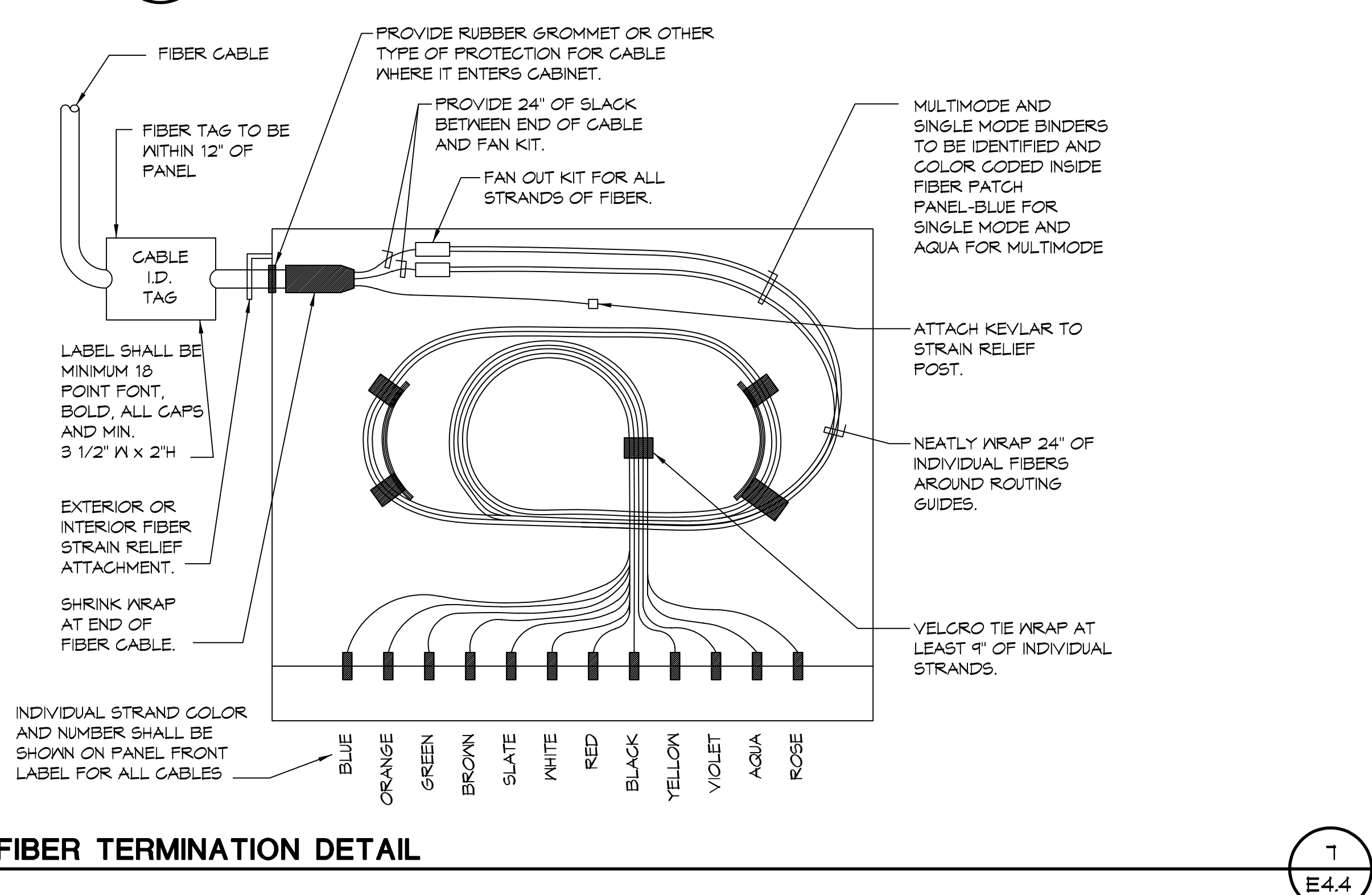
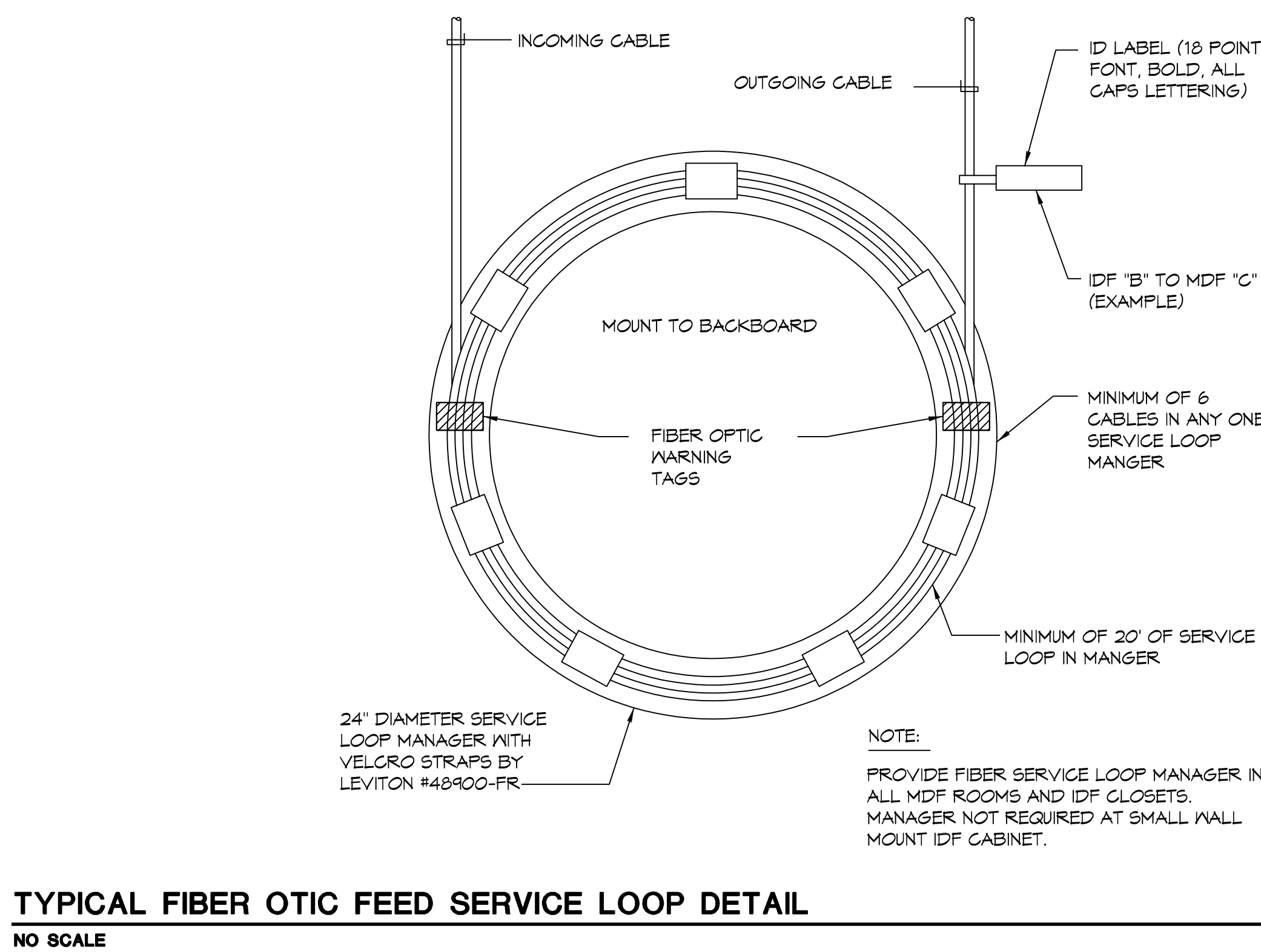
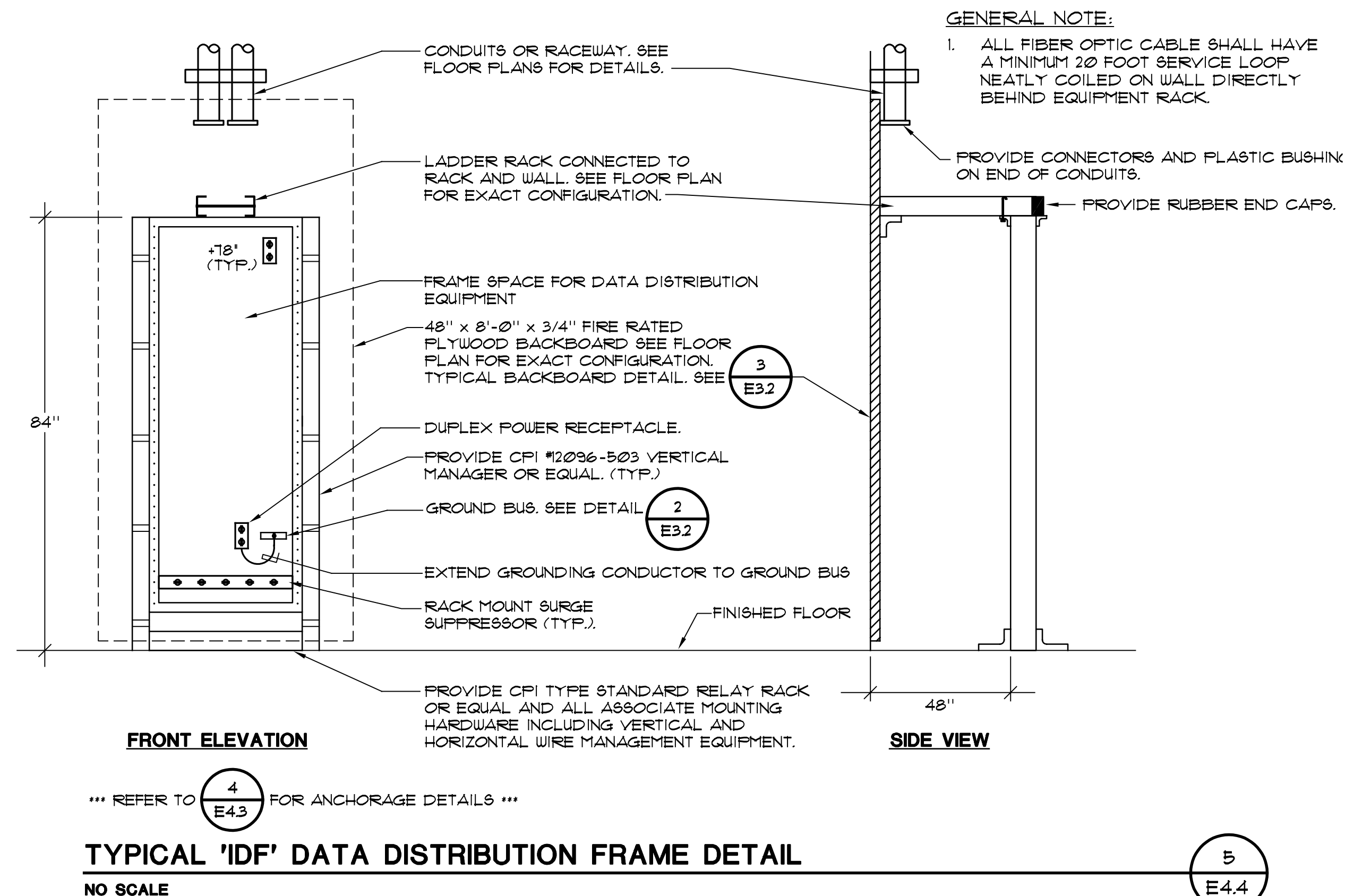
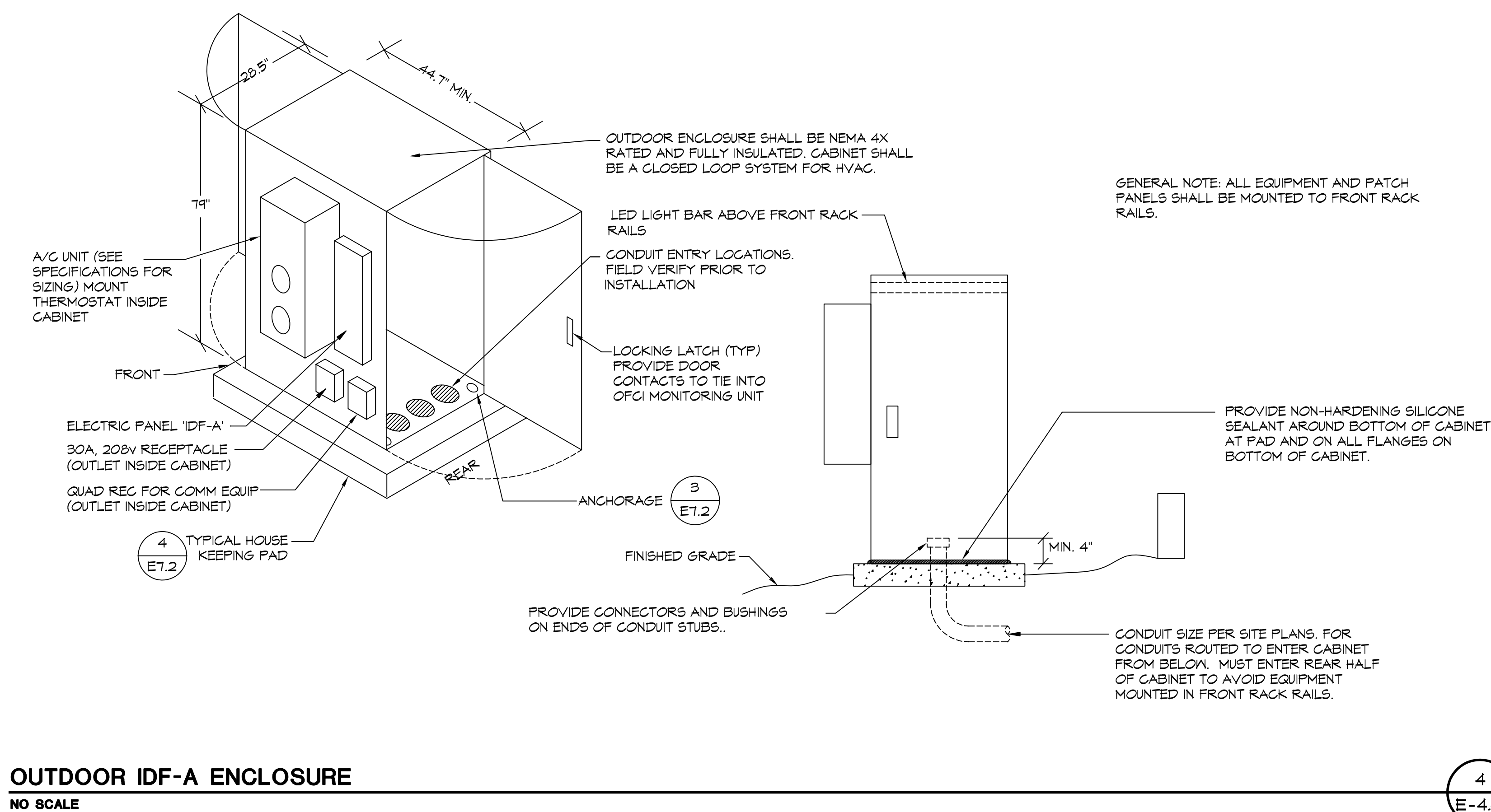
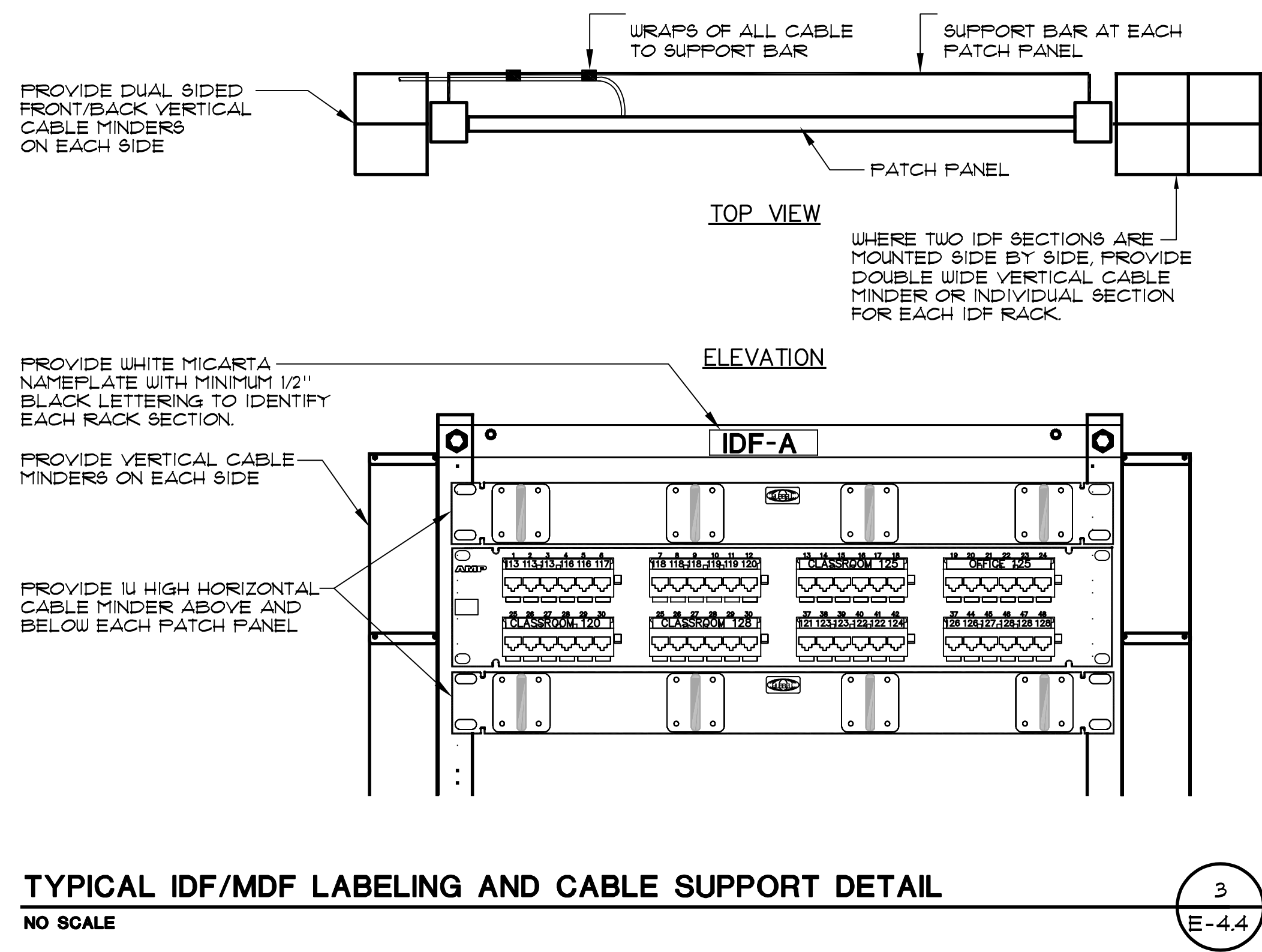
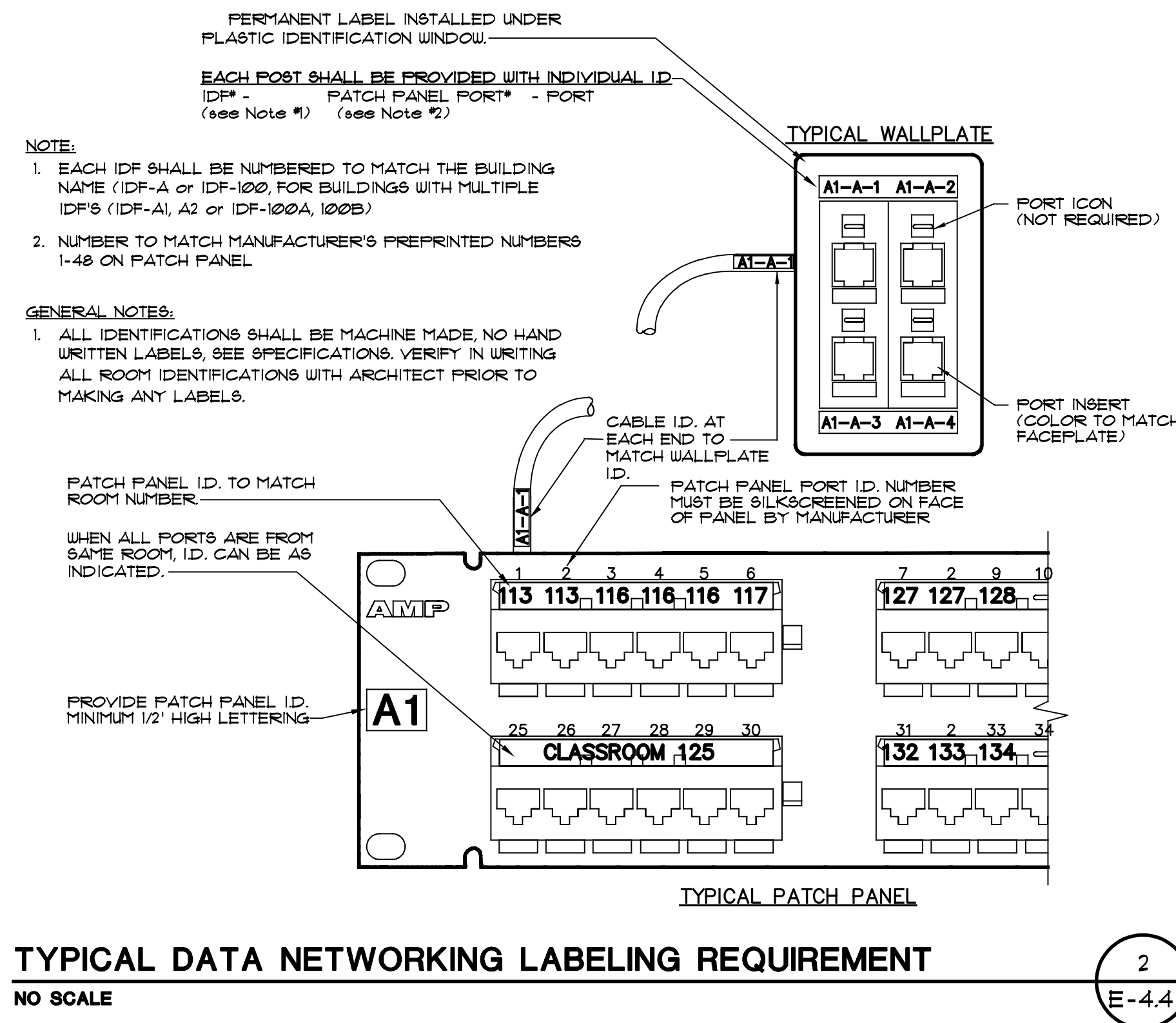
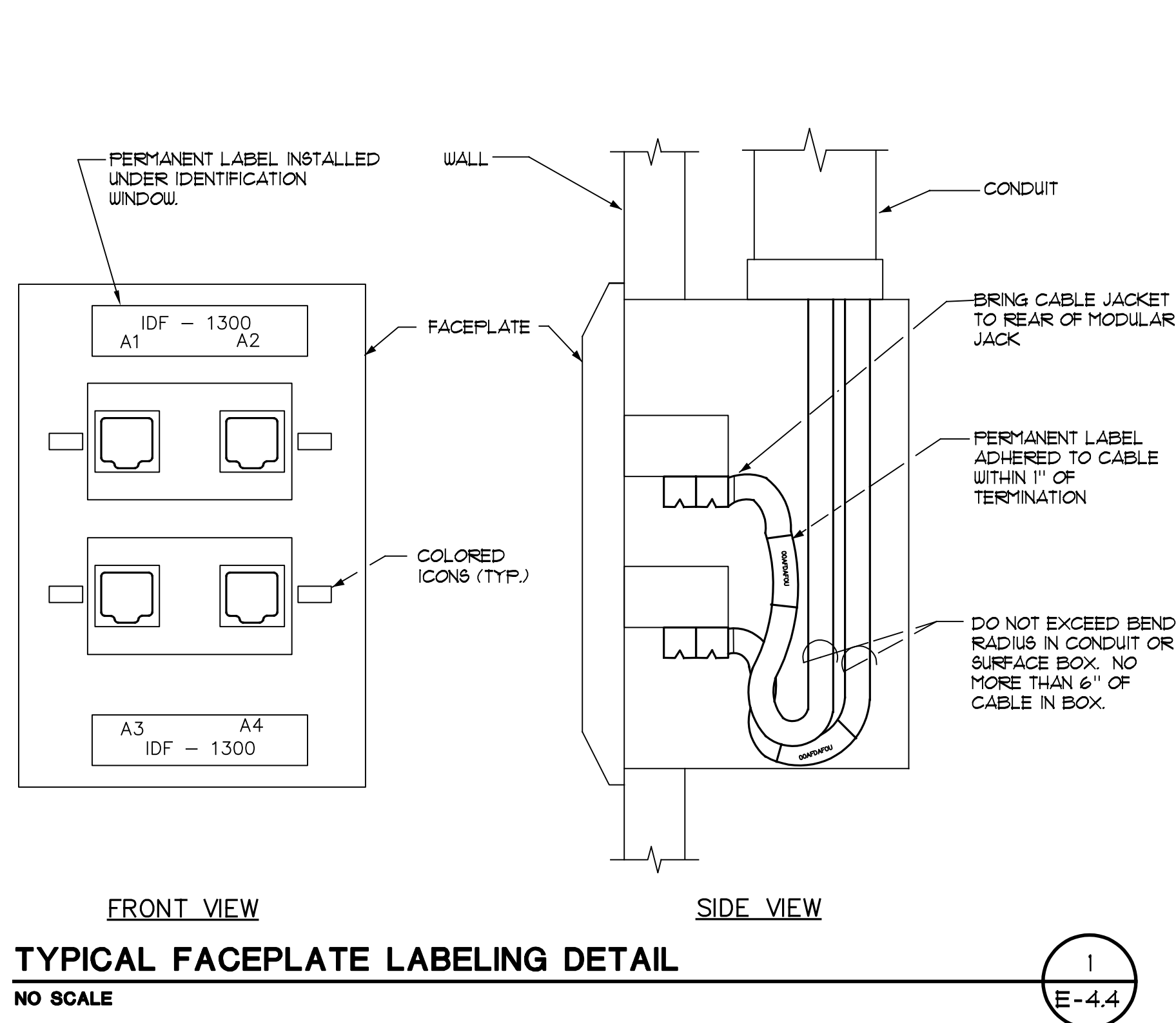
SHEET TITLE

COMMUNICATION
DETAILS

E-4.3



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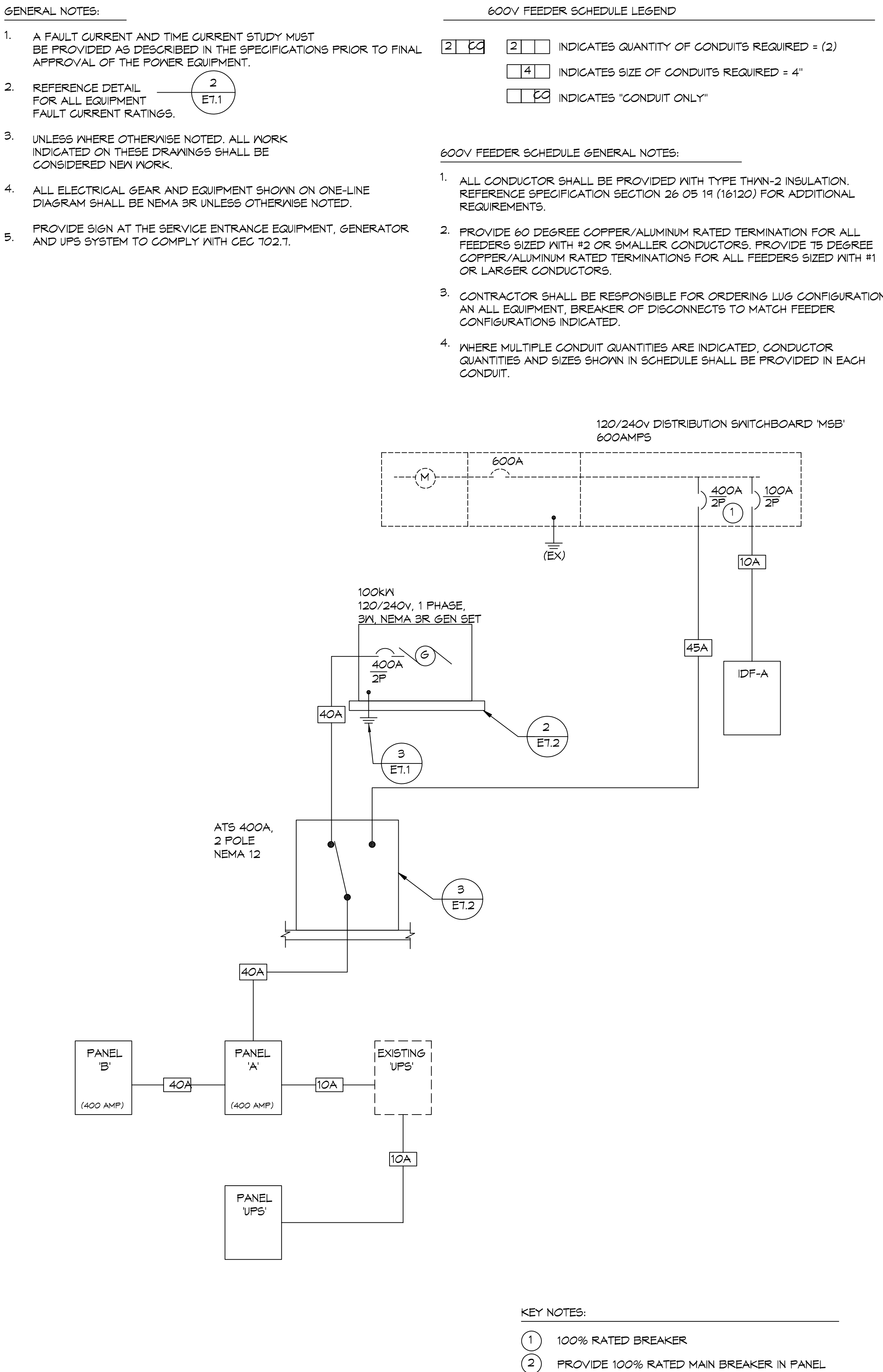
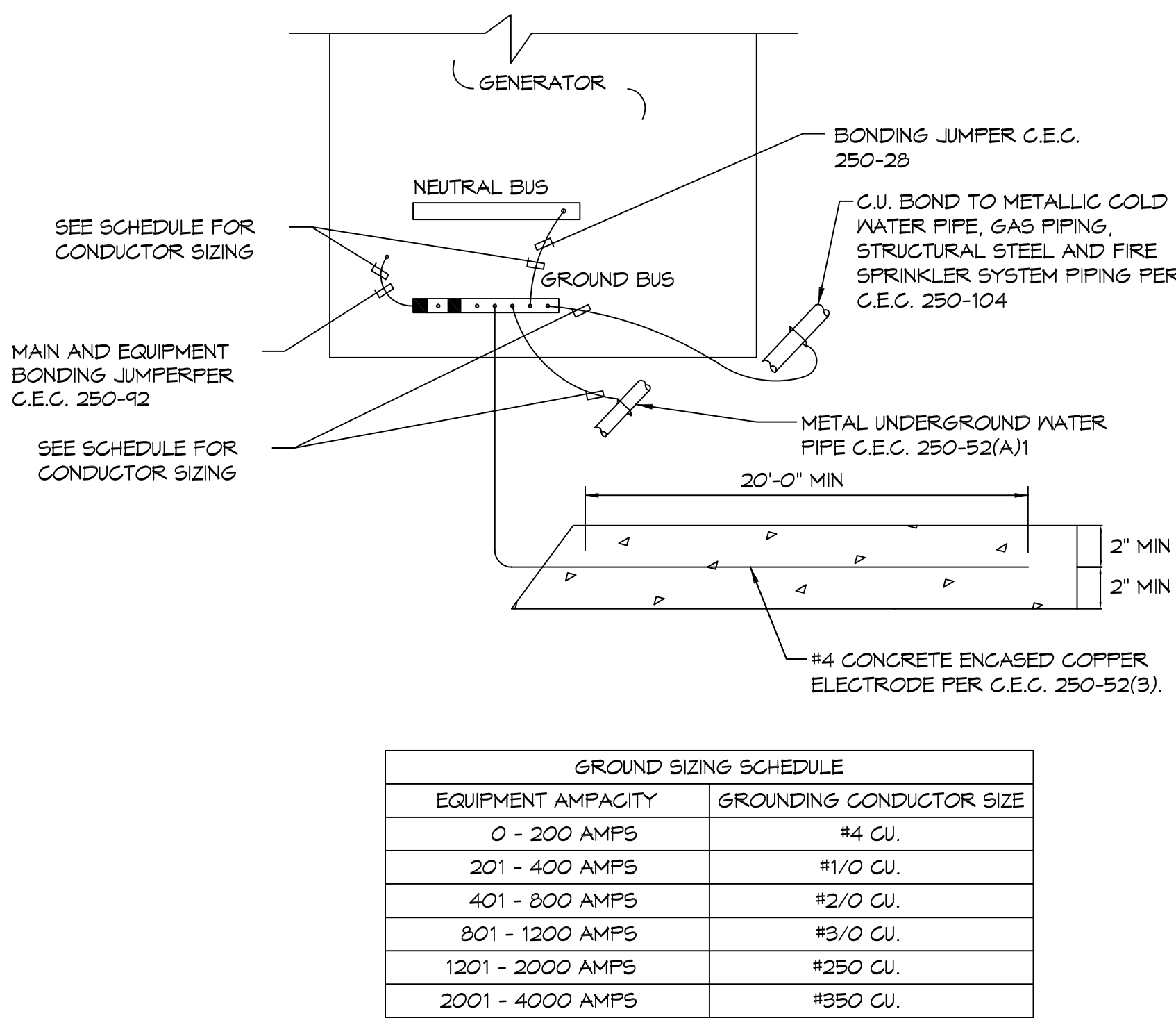
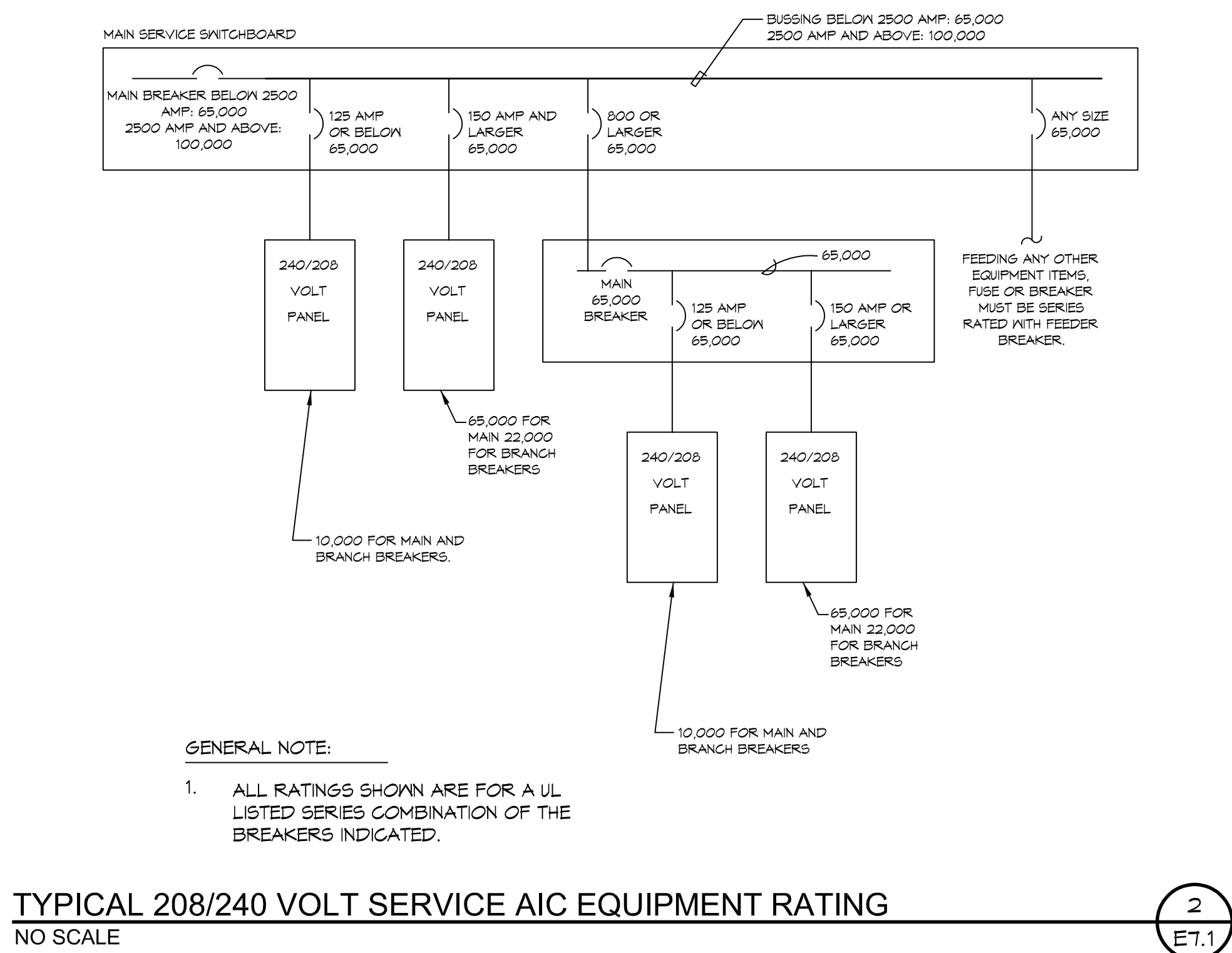
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REVISIONS		
MARK	DATE	DESCRIPTION
PROJECT NO: 23-003		
MODEL FILE: LUSD Technology Dept. Bldg_.pht		
PLOT DATE: 10/20/2023		
SHEET TITLE		

COMMUNICATION
DETAILS

E-4.4



600Volt Feeder Schedule						
I.D.	Type	Ampercity	Copper		Aluminum	
			Conduit	Conductors	Conduit	Conductors
2A		20	(1)	3/4" 3 # 12, 1# 12 Gnd	NA	NA
2B		20	(1)	3/4" 4 # 12, 1# 12 Gnd	NA	NA
3A		30	(1)	3/4" 3 # 10, 1# 10 Gnd	NA	NA
3B		30	(1)	3/4" 4 # 10, 1# 10 Gnd	NA	NA
4A		40	(1)	1" 3 # 8, 1# 10 Gnd	NA	NA
4B		40	(1)	1" 4 # 8, 1# 10 Gnd	NA	NA
5A		50	(1)	1" 3 # 6, 1# 10 Gnd	NA	NA
5B		50	(1)	1" 4 # 6, 1# 10 Gnd	NA	NA
6A		60	(1)	1 1/4" 3 # 4, 1# 8 Gnd	NA	NA
6B		60	(1)	1 1/4" 4 # 4, 1# 8 Gnd	NA	NA
7A		70	(1)	1 1/4" 3 # 4, 1# 8 Gnd	NA	NA
7B		70	(1)	1 1/4" 4 # 4, 1# 8 Gnd	NA	NA
8A		80	(1)	1 1/4" 3 # 3, 1# 8 Gnd	NA	NA
8B		80	(1)	1 1/4" 4 # 3, 1# 8 Gnd	NA	NA
9A		90	(1)	1 1/2" 3 # 2, 1# 8 Gnd	NA	NA
9B		90	(1)	1 1/2" 4 # 2, 1# 8 Gnd	NA	NA
10A		100	(1)	1 1/2" 3 # 1, 1# 6 Gnd	NA	NA
10B		100	(1)	1 1/2" 4 # 1, 1# 6 Gnd	NA	NA
12A		125	(1)	2" 3 # 1, 1# 6 Gnd	(1)	2" 3 # 2/0, 1# 3 Gnd
12B		125	(1)	2" 4 # 1, 1# 6 Gnd	(1)	2" 4 # 2/0, 1# 3 Gnd
15A		150	(1)	2" 3 # 1/0, 1# 6 Gnd	(1)	2" 3 # 3/0, 1# 3 Gnd
15B		150	(1)	2" 4 # 1/0, 1# 6 Gnd	(1)	2" 4 # 3/0, 1# 3 Gnd
17A		175	(1)	2" 3 # 2/0, 1# 6 Gnd	(1)	2" 3 # 4/0, 1# 3 Gnd
17B		175	(1)	2" 4 # 2/0, 1# 6 Gnd	(1)	2" 4 # 4/0, 1# 3 Gnd
20A		200	(1)	3" 3 # 3/0, 1# 4 Gnd	(1)	3" 3 # 250, 1# 2 Gnd
20B		200	(1)	3" 4 # 3/0, 1# 4 Gnd	(1)	3" 4 # 250, 1# 2 Gnd
22A		225	(1)	3" 3 # 4/0, 1# 4 Gnd	(1)	3" 3 # 300, 1# 2 Gnd
22B		225	(1)	3" 4 # 4/0, 1# 4 Gnd	(1)	3" 4 # 300, 1# 2 Gnd
25A		250	(1)	3" 3 # 250, 1# 4 Gnd	(1)	3" 3 # 350, 1# 2 Gnd
25B		250	(1)	3" 4 # 250, 1# 4 Gnd	(1)	3" 4 # 350, 1# 2 Gnd
30A		300	(1)	3" 3 # 350, 1# 4 Gnd	(1)	3" 3 # 500, 1# 2 Gnd
30B		300	(1)	3" 4 # 350, 1# 4 Gnd	(1)	3" 4 # 500, 1# 2 Gnd
35A		350	(2)	3" 3 # 2/0, 1# 2 Gnd	(2)	2" 3 # 4/0, 1# 1 Gnd
35B		350	(2)	2" 4 # 2/0, 1# 2 Gnd	(2)	2" 4 # 4/0, 1# 1 Gnd
40A		400	(2)	3" 3 # 3/0, 1# 2 Gnd	(2)	3" 3 # 250, 1# 1/0 Gnd
40B		400	(2)	3" 4 # 3/0, 1# 2 Gnd	(2)	3" 4 # 250, 1# 1/0 Gnd
45A		450	(2)	3" 3 # 4/0, 1# 2 Gnd	(2)	3" 3 # 300, 1# 1/0 Gnd
45B		450	(2)	3" 4 # 4/0, 1# 2 Gnd	(2)	3" 4 # 300, 1# 1/0 Gnd
50A		500	(2)	3" 3 # 250, 1# 2 Gnd	(2)	3" 3 # 350, 1# 1/0 Gnd
50B		500	(2)	3" 4 # 250, 1# 2 Gnd	(2)	3" 4 # 350, 1# 1/0 Gnd
60A		600	(2)	3" 3 # 350, 1# 1 Gnd	(2)	3" 3 # 500, 1# 2/0 Gnd
60B		600	(2)	3" 4 # 350, 1# 1 Gnd	(2)	3" 4 # 500, 1# 2/0 Gnd
70A		700	(3)	3" 3 # 4/0, 1# 1/0 Gnd	(3)	3" 3 # 300, 1# 3/0 Gnd
70B		700	(3)	3" 4 # 4/0, 1# 1/0 Gnd	(3)	3" 4 # 300, 1# 3/0 Gnd
80A		800	(3)	3" 3 # 300, 1# 1/0 Gnd	(3)	3" 3 # 500, 1# 3/0 Gnd
80B		800	(3)	3" 4 # 300, 1# 1/0 Gnd	(3)	3" 4 # 500, 1# 3/0 Gnd
100B		1000	(4)	3" 4 # 250, 1# 2/0 Gnd	(4)	3" 4 # 400, 1#

600V FEEDER SCHEDULE LEGEND

<div style="border: 1px solid black; padding: 2px; display: inline-block;">MS</div>	REFERENCE MECHANICAL EQUIPMENT SCHEDULE FOR SIZE	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">1 E6.2</div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">T75</div>	"T" INDICATES TRANSFORMER FEEDER REFERENCE. THE NUMBER INDICATES TRANSFORMER TYPE. REFER TO SCHEDULE ON SHEET FOR SIZE REQUIRED.	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">ET3</div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">CO</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> INDICATES QUANTITY OF CONDUITS REQUIRED = (2)	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div>	INDICATES SIZE OF CONDUITS REQUIRED = "4"	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CO</div>	INDICATES "CONDUIT ONLY"	

REVISIONS		
MARK	DATE	DESCRIPTION

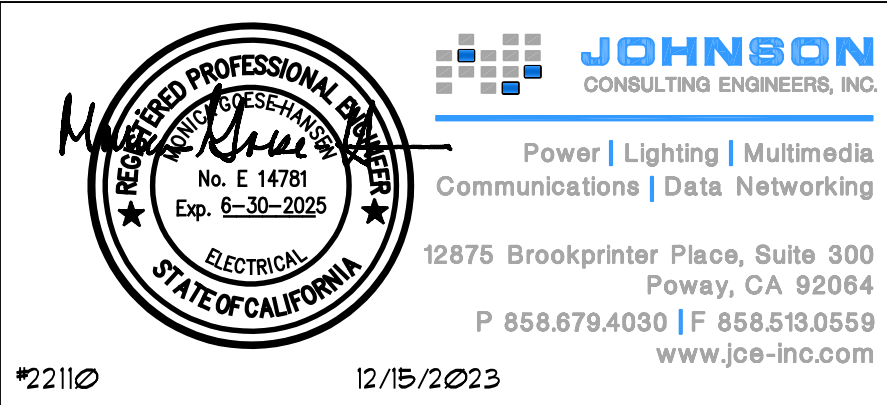
PROJECT NO: 23-003
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LUSD Technology Dept. Bldg..pln

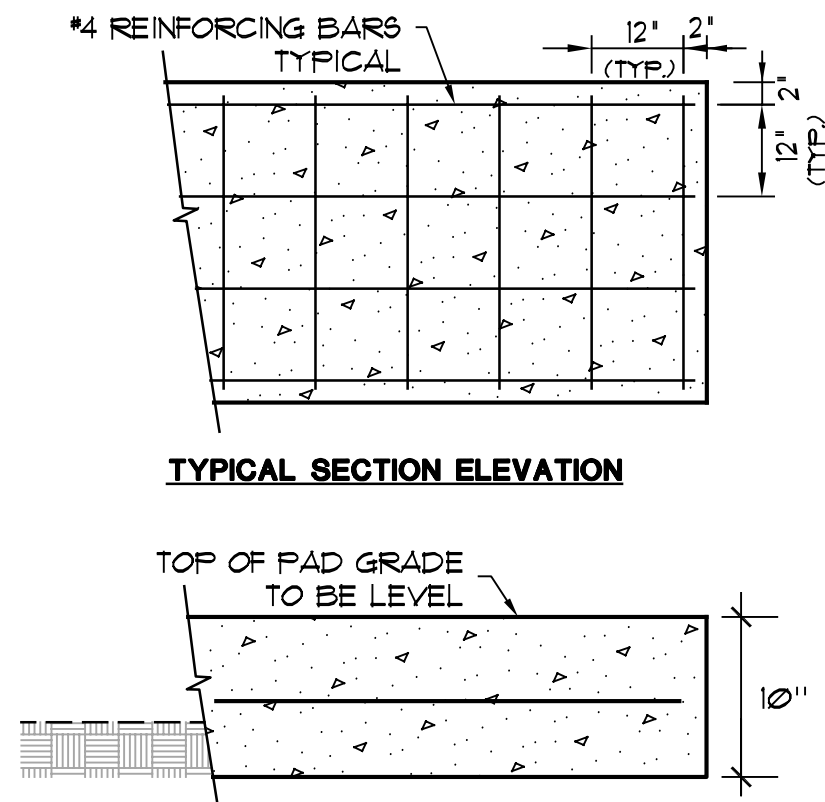
PLOT DATE:
10/20/2023

SHEET TITLE

ONE LINE DIAGRAM

E-7.1

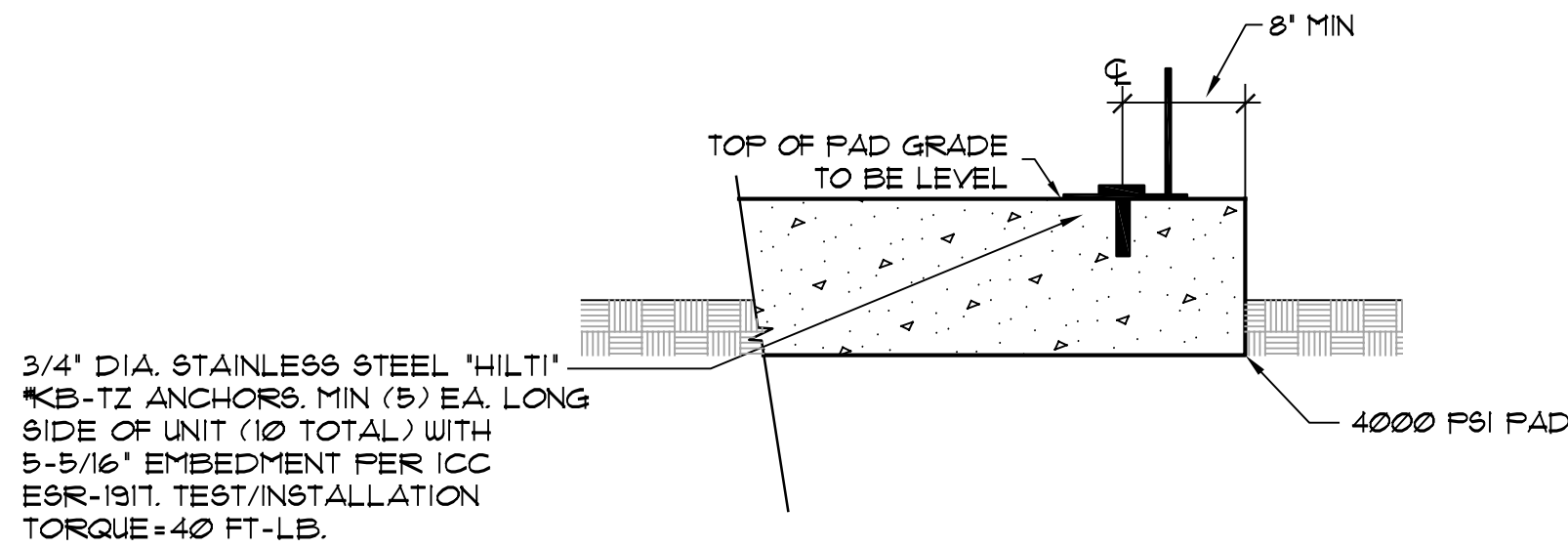




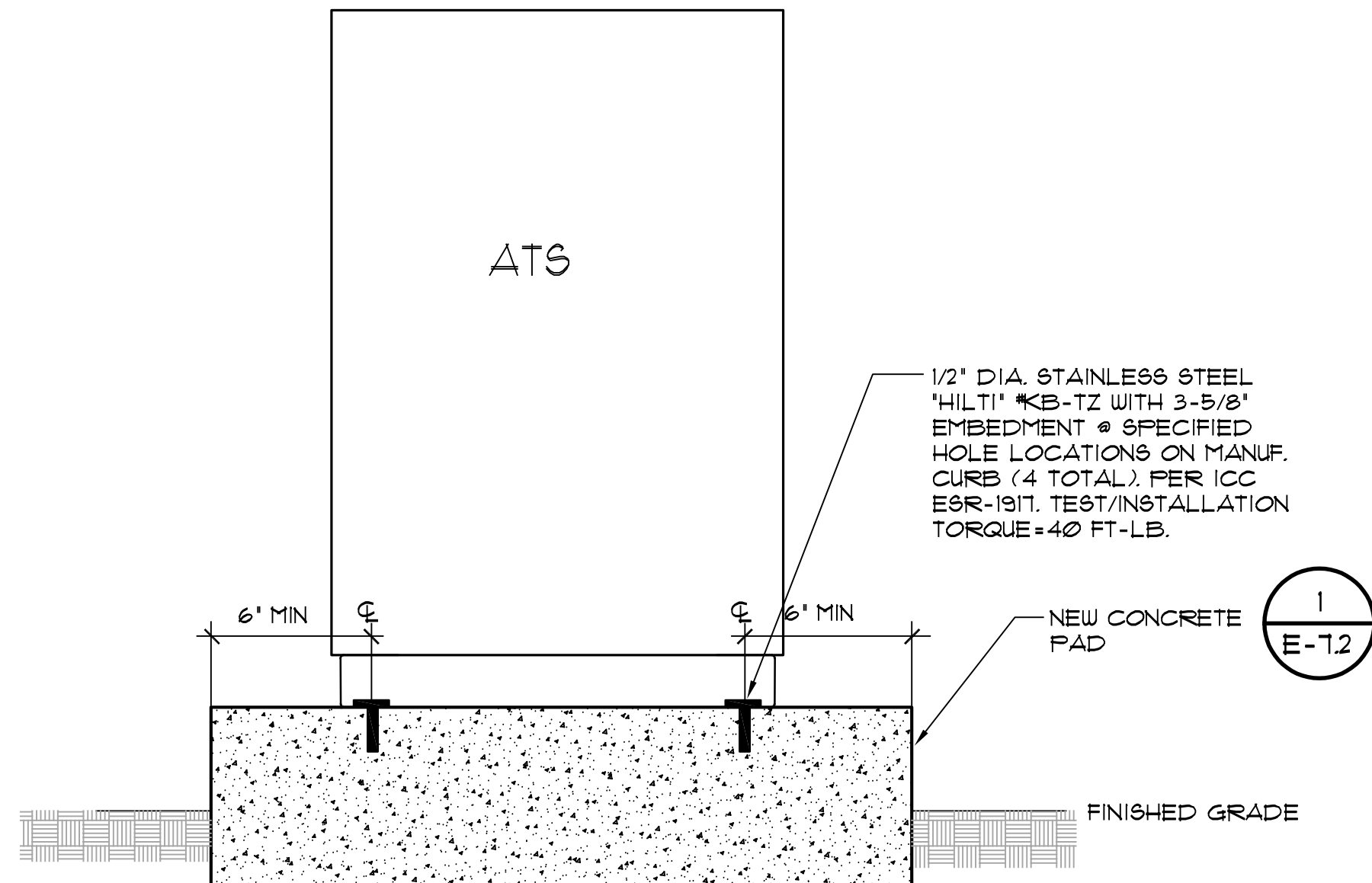
TYPICAL HOUSEKEEPING PAD DETAIL
NO SCALE

GENERAL NOTES

- ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, AS PER 1903A METHOD 'A' AND TABLE 19A-A-8. BATCH PLANT INSPECTIONS AND TESTS OF CEMENT AND REINFORCING BARS MAY BE WAIVED PER TITLE 24 SECTION 1104A.4.3 & 1104A.4.4.
- CONCRETE MIX DESIGNS SHALL COMPLY WITH TITLE 24 SECTION 1905A.2.
- PORTLAND CEMENT SHALL CONFORM TO (ASTM C-150) TYPE I OR II
- CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33
- CONCRETE PLACEMENT SHALL CONFORM TO TITLE 24 SECTION 1903A AND ASTM A-615 GRADE 60.
- ALL REINFORCING BARS SHALL CONFORM TO TITLE 24 SECTION 1903A AND ASTM A-615 GRADE 60.

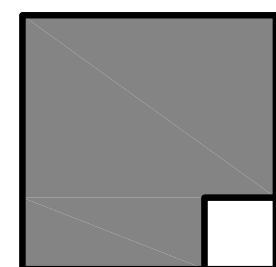


GENERATOR HOUSEKEEPING PAD DETAIL
NO SCALE



ATS MOUNTING DETAIL
NO SCALE

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120/240 ▼		120/240 1PH, 3WIRE		400 AMP		Main	Breaker	X	ENCLOSURE TYPE		ENCLOSURE NOTE		
		200% Neutral Bus				Enclosure	Recessed	X	X NEMA TYPE 1				
		(INTEGRALITY/TVSS Protection)							X NEMA TYPE 3R				
		(REMOTE/TVSS Protection)							NEMA TYPE 4X				
		Service Entrance Rated		X GENERAL DISTRIBUTION		PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, WATER HEATERS							
		Load Side Feed thru Lug		X BREAKER REQUIREMENTS:		MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL							
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		AHU-1	50	2	1	4200							
					3	2000							
		AHU-2	50	2	5	4200							
					7	800							
		AHU-3	50	2	9	4200							
					11	800							
		CU-1	50	2	13	4200							
					15	800							
		CU-2	50	2	17	4200							
					19	800							
		Receptacle	20	1	21	1000							
		Receptacle	20	1	23	800							
		Receptacle	20	1	25	1000							
		Receptacle	20	1	27	1000							
		Receptacle	20	1	29	1000							
		Receptacle	20	1	31	800							
		Receptacle	20	1	33	1000							
		Receptacle	20	1	35	800							
		Receptacle	20	1	37	5400							
		Receptacle	20	1	39	5400							
		SPACE	20	1	41							SPACE	
SPECIAL PANEL		NOTE				NOTE #1		NOTE #2		PROVIDE LOCK-ON BREAKER IN SPACE			
NHL= Non Harmonic Load		TOTAL LOAD PER PHASE		38800		38400		HIGH PHASE		120V 388.3 AMPS			
LCL= Long Continuous Load		25% LONG CONTINUOUS LOADS		0		0		ALL PHASES		240V 387.9 AMPS			
SUB PANEL		B		7800		8100		DEMAND PER		X			
Max. Neut. Load		SUB PANEL						TOTAL CONNECTED LOAD		46600			
AMPS		TOTAL CONNECTED LOAD		46600		46500		NEC 220-34		3600 sq. ft.		302 AMPS	

120/240		120/240 1PH, 3WIRE				400 AMP		Main		Breaker		ENCLOSURE TYPE		ENCLOSURE NOTE		
B			200% Neutral Bus								Lug		x		NEMA TYPE 1	
			(INTEGRAL TVSS Protection)								Nonmetallic				NEMA TYPE 3K	
			(REMOTE TVSS Protection)								Surface		x		NEMA TYPE 4X	
			Service Entrance Rated													
			Load Side Feed thru Lug													
		GENERAL DISTRIBUTION						PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, WATER HEATERS								
		BREAKER REQUIREMENTS:						MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL								
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL				
		Lighting	20	1	3	1100		400	2	20	1	Generator				
		Lighting	20	1	5	300		1200	4	20	2	Generator				
		Lighting Exterior	20	1	7	1200		300	6							
		Lighting Exterior	20	2	9	1000		400	8	20	1	Receptacle				
		FC-1			11	400		1000	10	20	1	Receptacle				
					12	1000		1000	12	20	1	Receptacle				
		FC-2	20	2	13	1000		1000	14	20	1	Receptacle				
					15	1000		1000	16	20	1	Receptacle				
		EF-1	20	1	17	300		400	18	20	1	Receptacle				
			20	1	19	600		600	20	20	1	Receptacle				
			20	1	21	600		600	22	20	1	Receptacle				
			20	1	23	600		600	24	20	1	Receptacle				
			20	1	25	25		26	20	1	Receptacle					
			20	1	27	600		30	20	1	Receptacle					
			20	1	29			32	20	1						
			20	1	31			34	20	1						
			20	1	33			36	20	1						
			20	1	35			38	20	1						
		SPARE	20	1	37			40	20	1						
		SPARE	20	1	39			42	20	1						
		SPACE	20	1	41			44	20	1						
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		SPACE						246	20	1						
		SPACE						248	20	1						
		SPACE						250	20	1						
		SPACE						252	20	1						
		SPACE						254	20	1						
		SPACE						256	20	1						
		SPACE						258	20	1						
		SPACE						260	20	1						
		SPACE						262	20	1						
		SPACE						264	20	1						
		SPACE						266	20	1						
		SPACE						268	20	1						
		SPACE						270	20	1						
		SPACE						272	20	1						
		SPACE						274	20	1						
		SPACE						276	20	1						
		SPACE						278	20	1						
		SPACE						280	20	1						
		SPACE						282	20	1						
		SPACE						284	20	1						
		SPACE						286	20	1						
		SPACE						288	20	1						
		SPACE						290	20	1						
		SPACE						292	20	1						
		SPACE						294	20	1						
		SPACE						296	20	1						
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		SPACE						300	20	1						
		SPACE						302	20	1						
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		SPACE						308	20	1						
		SPACE						310	20	1						
		SPACE						312	20	1						
		SPACE						314	20	1						
		SPACE						316	20	1						
		SPACE						318	20	1						
		SPACE						320	20	1						
		SPACE						322	20	1						
		SPACE						324	20	1						
		SPACE						326	20	1						
		SPACE						328	20	1						

120/240		120/240 1PH, 3WIRE		100 AMP		Main	Breaker	X	ENCLOSURE TYPE	ENCLOSURE NOTE			
UPS		200% Neutral Bus		GENERAL DISTRIBUTION		Enclosure	Lug	X	NEMA TYPE 1				
		(INTEGRALITY/SS Protection)											
		(REMOTE/TVSS Protection)											
		Service Entrance Rated											
Low Side Feed thru Lug		BREAKER REQUIREMENTS:		PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, WATER HEATERS		NEC 220-34		NEMA TYPE 4X					
				MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL									
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		Receptacle	20	1	1	400		2	20	1	Receptacle		
		Receptacle	20	1	3	400		4	20	1	Receptacle		
		Receptacle	30	2	5	600		6	30	2	Receptacle		
		Receptacle			7	800		8					
		Receptacle	20	1	9	400		10	20	1	Receptacle		
		Receptacle	20	1	11	400		12	20	1	Receptacle		
		Receptacle	30	2	13	600		14	30	2	Receptacle		
		Receptacle			15	800		16					
		SPACE	20	1	17	1000		18	30	2	MPOE		
		SPACE	20	1	19	1000		20					
		SPACE	20	1	21	1000		22	20	1	MPOE		
		SPACE	20	1	23	400		24	20	1	Receptacle		
		SPACE	20	1	25	400		26	20	1	Receptacle		
		SPACE	20	1	27	400		28	20	1	Receptacle		
		SPACE	20	1	29			30	20	1	SPACE		
		SPACE			31			32			SPACE		
					33			34					
					35			36					
					37			38					
					39			40					
					41			42					
SPECIAL PANEL NOTE						NOTE #1		NOTE #2		PROVIDE LOCK-ON BREAKER IN SPACE			
NHL= Non Harmonic Load		TOTAL LOAD PER PHASE		5800		5450		HIGH PHASE ALL PHASES		VA @ 120V 48.3 AMPS			
LCL= Long Continuous Load		25% LONG CONTINUOUS LOAD		0		0		11250		VA @ 240V 46.7 AMPS			
		SUB PANEL						DEMAND FEED		NEC 220-34 0 sq. ft.		AMPS	
Max. Neut. Load		SUB PANEL											
82 AMPS		TOTAL CONNECTED LOAD		5800		5450							

PLUMBING PLAN CHECK NOTES

1. WHERE PLUMBING PENETRATES THE FIRE RESISTIVE WALLS (AREA SEPARATION AND OCCUPANCY SEPARATION), THE SECTION PASSING THROUGH THE WALL SURFACE, AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL MEET CBC, FIRE AND TEMPERATURE RATING.
2. ALL WATER HEATERS SHALL BE LISTED IN THE CEC LIST OF APPROVED WATER HEATERS.
3. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH CEC T-24, LATEST VERSION
4. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
5. STATE HEALTH & SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER SUPPLY PIPING.
6. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF VALVE THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 CPC
7. WATER HEATERS SHALL BE BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 CPC
8. VALVES, FIXTURES AND ALL OTHER APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA ASSEMBLY BILL AB1953, LOW LEAD CONTENT AS APPLICABLE.
9. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE WATER USAGE STANDARDS REFERENCED IN SECTION 5.303.3 OF THE 2022 CA GREEN BUILDING STANDARDS CODE UNLESS SCHEDULED WITH A LOWER WATER USAGE.

9.1. LAVATORY FAUCETS SHALL NOT EXCEED 0.5 GPM AT 60 PSI.

9.2. WATER CLOSETS SHALL NOT EXCEED 1.28 GPF

9.3. KITCHEN FAUCETS SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM AT 60 PSI

9.4. WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GPF

9.5. SHOWERHEADS SHALL NOT EXCEED 1.8 GPM AT 80 PSI

9.6. METERING FAUCETS SHALL NOT EXCEED 0.20 GALLONS PER CYCLE

PIPE MATERIALS SCHEDULE

DOMESTIC WATER PIPING ABOVE & BELOW GRADE, INSIDE BUILDING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22.
2. ANY WATER PIPING LOCATED BELOW GRADE SHALL BE TYPE "K" COPPER TUBING ANNEALED, WITH BRAZED JOINTS WRAPPED IN PE FILM.

SEWER WASTE DRAIN PIPING BELOW GRADE:

1. SOLID-WALL, SCHEDULE 40 PVC PIPE, ASTM D 2665, DRAIN, WASTE AND VENT PIPING. PVC SOCKET FITTINGS, CONFORMING TO ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311 DRAIN, WASTE, AND VENT PATTERNS, INSTAL. BELOW SLAB/GRADE PVC PIPING PER ASTM D 2221.

SEWER WASTE DRAIN PIPING ABOVE GRADE:

1. CAST IRON "NO-HUB" CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND 300 SERIES STAINLESS STEEL CLAMPING DEVICE CONFORMING TO CISPI 310.

A. DRAIN PIPING: HEAVY DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS, WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

B. VENT PIPING: STANDARD, SHIELDED, CISPI 310 STAINLESS-STEEL COUPLINGS, WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POC'S, INVERT ELEVATIONS, AND AVAILABILITY OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
6. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POC'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN ON THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATIONS OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
9. SUBSTITUTION OF PLUMBING EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RE-CALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RE-CALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
10. IF THE CONTRACTORS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
11. SUBMITTALS: APPROVAL OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
12. ALL PLUMBING EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
13. PLUMBING EQUIPMENT SHALL BE CERTIFIED BY AND COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS (E.E.S.) SECTION 110.3. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.
14. ALL CONDENSATE PIPING SHALL BE INSULATED FROM THE EQUIPMENT TO THE POINT OF DISCHARGE.
15. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 110.8, 120.3 AND 120.4.
16. WATER HEATERS FOR DOMESTIC HOT WATER SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 110.3.
17. LAVATORY FAUCETS IN ALL TOILET ROOMS SHALL BE THE SELF CLOSING TYPE.
18. SOIL, SEWER AND WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM.
19. ALL PLUMBING SOLDER SHALL BE LEAD FREE.
20. ALL COMPONENTS OF POTABLE WATER SYSTEM, INCLUDING SHUT OFF VALVES, ANGLE STOPS, AND PLUMBING FIXTURES SHALL COMPLY WITH CALIFORNIA LAW AB 1953 AND SECTION 116875 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
21. PROVIDE CLEANOUTS EVERY 100' AND AT ANY CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
22. ALL MECHANICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2016 CBC, SECTION 1614A.1.13 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6.

IMPORTANT NOTE FOR TRAP PRIMERS, REGARDLESS OF ANY OTHER DIRECTION PROVIDED IN DRAWINGS, SPECIFICATION OR MANUFACTURING GUIDANCE, ALL TRAP PRIMERS MUST BE INSTALLED PER CPC REQUIREMENT, IN REGARD TO THE HEIGHT ABOVE THE FIXTURE BEING SERVED AS WELL AS HAVING AN ACCESS PANEL OF SUFFICIENT SIZE TO ALLOW FOR REPLACEMENT. IN ADDITION, FOR CITY OF SAN DIEGO PROJECTS THE PIPING FROM THE TRAP PRIMER TO THE FIXTURE MUST BE HARD COPPER TYPE K WITH BRAZED FITTINGS. OTHER MATERIAL (SOFT, ANNEALED, ROLLED, PVC, CPVC, ETC) WILL NOT BE ACCEPTED. THIS DIRECTION HAS BEEN PROVIDED (AND CONFIRMED BY THE MEOR ON 2/22/2023) BY THE CITY OF SAN DIEGO SENIOR MECHANICAL INSPECTOR RICHARD GARCIA, 958-573-1229. THE MEOR DOES NOT ASSUME ANY LIABILITY FOR THIS DIRECTION AS IT DIFFERS FROM THE MEOR OPINION.

COORDINATION NOTE

1. ALL WORK INDICATED AS BEING LOCATED MORE THAN 5'-0" FROM BUILDING IS FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR SIZE, LOCATIONS, ROUTING OF WATER AND SEWER LATERALS, LOCATION OF BACKFLOW PREVENTERS, FIRE HYDRANTS, VALVES, ETC.

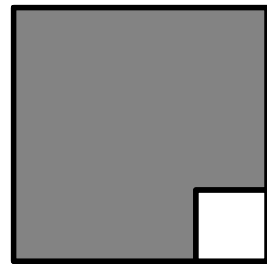
EXCAVATION NOTES

1. CONTRACTOR SHALL PROVIDE A SITE UTILITY LOCATOR SERVICE TO IDENTIFY ANY AND ALL UNDERGROUND UTILITY CONFLICTS IN RELATION TO TRENCH EXCAVATION, NEW PIPE INSTALLATION, AND BACKFILL REQUIREMENTS.
2. CONTRACTOR SHALL MEET WITH BUILDING OWNER AND INSPECTOR PRIOR TO ANY TRENCHWORK. CONTRACTOR SHALL PROVIDE EXACT TRENCH ROUTE SHOP DRAWINGS, OVERLAYED WITH THE SITE UTILITY LOCATOR UTILITY LOCATIONS FOR OWNERS REVIEW PRIOR TO MEETING.
3. CONTRACTOR SHALL HAND DIG IN ALL AREAS WITHIN 60" OF EXISTING UTILITIES, AS DISCOVERED DURING SITE UTILITY LOCATOR.
4. CONTRACTOR SHALL NOTIFY BUILDING OWNER/PROJECT MANAGER 14 DAYS PRIOR TO ANY EXCAVATION.
5. CONTRACTOR SHALL FOLLOW ALL APPLICABLE CODES AND REGULATION GUIDELINES FOR EXCAVATION, TRENCHING, BACKFILLING, AND COMPACTION.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
	S	SEWER OR WASTE BELOW FLOOR OR GRADE
	S OR W	SEWER OR WASTE ABOVE FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER (DOMESTIC)
	HW	HOT WATER (DOMESTIC)
	HWR	HOT WATER RETURN
		SEWER CONNECTION
		WATER CONNECTION
	BV	BALL VALVE
	CV	CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
		BALANCING VALVE
	COTG	CLEAN-OUT TO GRADE
	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN-OUT OR CLEAN-OUT BELOW FLOOR
	CL	CAPPED LINE
		DOWN OR DROP
		UP OR RISE
		VALVE ON RISE OR DROP
	TP	TRAP PRIMER
		DIRECTION OF FLOW
		REDUCER
	FD	FLOOR DRAIN
	A/C	ABOVE CEILING AREA DRAIN
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	ARCH	ARCHITECT OR ARCHITECTURAL
	B/G	BELOW GRADE
	B/F	BELOW FLOOR
	BEL	BELOW
	CLG	CEILING
	CONC	CONCRETE
	CONT	CONTINUATION
	CONTR	CONTRACTOR
	DIA	DIAMETER
	DN	DOWN
	DWGS	DRAWINGS
	ELECT	ELECTRICAL
	ELEV	ELEVATION
	EXIST	EXISTING
	F	DEGREES FAHRENHEIT
	FFE	FINISH FLOOR ELEVATION
	FIN	FINISH OR FINISHED
	FLR	FLOOR
	FT	FEET OR FOOT
	GPM	GALLONS PER MINUTE
	HDR	HEADER
	HP	HORSEPOWER
	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
	I.E	INVERT ELEVATION
	INV	INVERT
	MAX	MAXIMUM
	MECH	MECHANICAL
	MFR	MANUFACTURER
	MIN	MINIMUM
	MTD	MOUNTED
	N.I.C	NOT IN CONTRACT
	NTS	NOT TO SCALE
	NO	NUMBER
	OPER	OPERATING
	PSI	POUNDS PER SQUARE INCH
	PLBG	PLUMBING
	QTY	QUANTITY
	SHT	SHEET
	SOV	SHUT-OFF VALVE
	SPEC	SPECIFICATION
	SQ FT	SQUARE FEET OR SQUARE FOOT
	STRUCT	STRUCTURAL
	TEMP	TEMPERATURE
	TYP	TYPICAL
	VTR	VENT THROUGH ROOF
	W.C	INCHES WATER COLUMN

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LUSD Maintenance, Operations, & Transportation

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Lakeside, CA 92040
Lakeside Union School District
12335 Woodside Ave. Lakeside CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION
	12/13/2023	100% CD

PROJECT NO: 23-003

MODEL FILE:
LUSD Technology Dept. Bldg..._pin

PLOT DATE:
10/27/2023

SHEET TITLE

PLUMBING NOTES
AND LEGEND

P001

WATER CALCULATION		
TOTAL FIXTURE UNITS:	12.5	F.U.
TOTAL DEMAND FLOW RATE	10	GPM
AVAILABLE WATER PRESSURE (PER LAKESIDE WATER DISTRICT 11/17/23)	115	PSI
PRESSURE LOSS THRU BACKFLOW PREVENTER	12	PSI
PRESSURE AT BUILDING (SET BY PRESSURE REGULATOR)	60	PSI
TOTAL AVAILABLE WATER PRESSURE	48	PSI
ELEVATION LOSS (15 FT x 0.433) =	6.5	PSI
MINIMUM OPERATING PRESSURE REQUIRED AT FIXTURE	30	PSI
TOTAL AVAILABLE SYSTEM PRESSURE	11.5	PSI
ALLOWABLE PRESSURE DROP FORMULA		
100 FT x AVAILABLE PRESSURE ÷ LONGEST RUN OF PIPE		
100 FT 11.5 PSI / 100 FT	11.5	PSI

PLUMBING FIXTURE SUMMARY							
FIXTURE	QTY.	WATER		HOT WATER		SEWER	
		F.U.	TOTAL	F.U.	TOTAL	F.U.	TOTAL
WATER CLOSET (FLUSH TANK)	2	2.5	5	-	-	4.0	8
LAVATORY	2	1.0	2	1.0	2	1.0	2
BREAK SINK	1	2.0	2	2.0	2	2.0	2
MOP SINK/ SERVICE SINK	1	3.0	3	3.0	3	3.0	3
ICE MAKER BOX	1	0.5	0.5	-	-	-	-
BUILDING TOTAL			12.5 FU		7 FU		15 DFU
GPM CONVERSION			-		-		
TOTAL BUILDING GPM			10				

FIXTURE CONNECTION SCHEDULE							
MARK	DESCRIPTION	MINIMUM PIPE CONNECTION					DESCRIPTION
		CW ROUGH-IN	HW ROUGH-IN	WASTE ROUGH-IN	WASTE	VENT	
WC-1	WATER CLOSET (ADA)	3/4"	-	4"	4"	2"	AMERICAN STANDARD ELONGATED PRESSURE-ASSISTED CADET FLOWISE, 1.1 GPF.
L-1	LAVATORY (ADA)	3/4"	3/4"	2"	2"	2"	AMERICAN STANDARD DECORUM WALL HUNG LAVATORY, PROVIDE WITH CENTER HOLE ONLY, REAR OVERFLOW, PROVIDE WITH AMERICAN STANDARD NEXTGEN SELECTRONIC FAUCET #7755.205 WITH ABOVE DECK MIXING, BATTERY POWERED, 0.5 GPM.
BS-1	BREAK SINK	3/4"	3/4"	2"	2"	2"	JUST MFG. #SLADA1921A55-J, PROVIDE WITH JUST MFG. #JPR-701 KITCHEN FAUCET, 1.75 GPM.
MS-1	MOP SINK	3/4"	3/4"	3"	3"	2"	ZURN #Z5850 CUSTODIAL FLOOR SINK, PROVIDE WITH ZURN #ZB43M4-XL FAUCET.
IMB-1	ICE MAKER BOX	3/4"	-	-	-	-	GUY GRAY #FR-12 PLASTIC ICE MAKER BOX WITH QUARTER TURN VALVE AND WATER HAMMER ARRESTOR.

ELECTRIC WATER HEATER											
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	UNIT CAPACITY			OUTLET TEMP (°F)	ELEC. DATA	WATTAGE (WATT)	OPER. WT. (LBS)	REMARKS
				STORAGE (GALLONS)	RECOVERY GPH	DEGREE RISE °F		V/PHHZ			
EW-1	BRADFORD WHITE #LE2M4LN3-3	DOMESTIC	CUSTODIAL 107	37	21	80	140	240/1/60	4000	450	①
REMARKS: ① ROUTE T&P RELIEF DRAIN LINE TO MOP SINK WITH A MINIMUM 1" AIR GAP, PROVIDE WITH HOLDRITE QUICKSTAND #40-S-30, WITH HOLDRITE QUICKPAN 26" DIA, AND HOLDRITE QUICKSTRAP #QS-50 SEISMIC SUPPORT.											

PLUMBING EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	LOCATION	REMARKS
TP-1	TRAP PRIMER	JAY R MFG. #2694	SEE FLOOR PLANS	PRESSURE ACTIVATED TRAP PRIMER PROVIDE DISTRIBUTION CAP AS NECESSARY.
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY CORP #S59-2025	CUST. 107	SET OUTLET TEMPERATURE TO 120°F.
CP-1	CIRCULATION PUMP	BELL & GOSSETT #BNF-6SLW	CUST. 107	115V/1PH/60HZ, 39 WATTS, 0.8 F.L.A. 10 LBS. TIE TO AQUASTAT, SET ON STATE AT 110°F AND TURN OFF STATE AT 120°F.

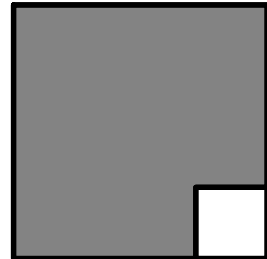
EXPANSION TANK									
MARK	MFR. & MODEL NO.	DESCRIPTION	LOCATION	SERVICE	MAX ACCEPTANCE FACTOR	FACTORY PRE-CHARGED (PSIG)	DIMENSION (DIA. x HEIGHT)	OPER. WT. (LBS.)	REMARKS
ET-1	AMTROL #ST-5C-DD	EXPANSION TANK	CUST. 107	DOMESTIC	0.45	55	8" X 14"	27	PROVIDE WITH HOLDRITE QUICK STRAP #QS-U FOR MOUNTING THE EXPANSION TANK ON THE WALL.

BACKFLOW PREVENTER							
UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIPTION	SERVICE	LOCATION	OVERALL DIMENSIONS (LXWXHX)	WEIGHT (LBS)	REMARKS
BFP-1	ZURN #975XL3	BACKFLOW PREVENTER	DOMESTIC	SEE FLOOR PLANS	22-3/8" X 4-11/16" X 9-1/4"	16	PROVIDE WITH FULL PORT QT BALL VALVES, MODEL SXL LEAD-FREE WYE TYPE STRAINER.

HW PIPE SIZE SCHEDULE (5FT/SEC)				
PIPE SIZE	GPM (MAX)	VELOCITY FT./SEC	FIXTURE UNITS	
			FLUSH TANK	FLUSH VALVE
1/2"	3.5	5	3	-
3/4"	7	5	8	-
1"	14	5	20	-
1-1/4"	19	5	28	-
1-1/2"	27	5	46	-
2"	47	5	115	-

CW PIPE SIZE SCHEDULE (8FT/SEC)				
PIPE SIZE	GPM (MAX)	VELOCITY FT./SEC	FIXTURE UNITS	
			FLUSH TANK	FLUSH VALVE
1/2"	3.75	5.25	3	-
3/4"	10	6.5	13	-
1"	20	8	30	-
1-1/4"	30	8	54	13
1-1/2"	41	8	90	30
2"	71	8	230	112
2-1/2"	110	8	431	295

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MARK	DATE	DESCRIPTION
	12/13/2023	100% CD

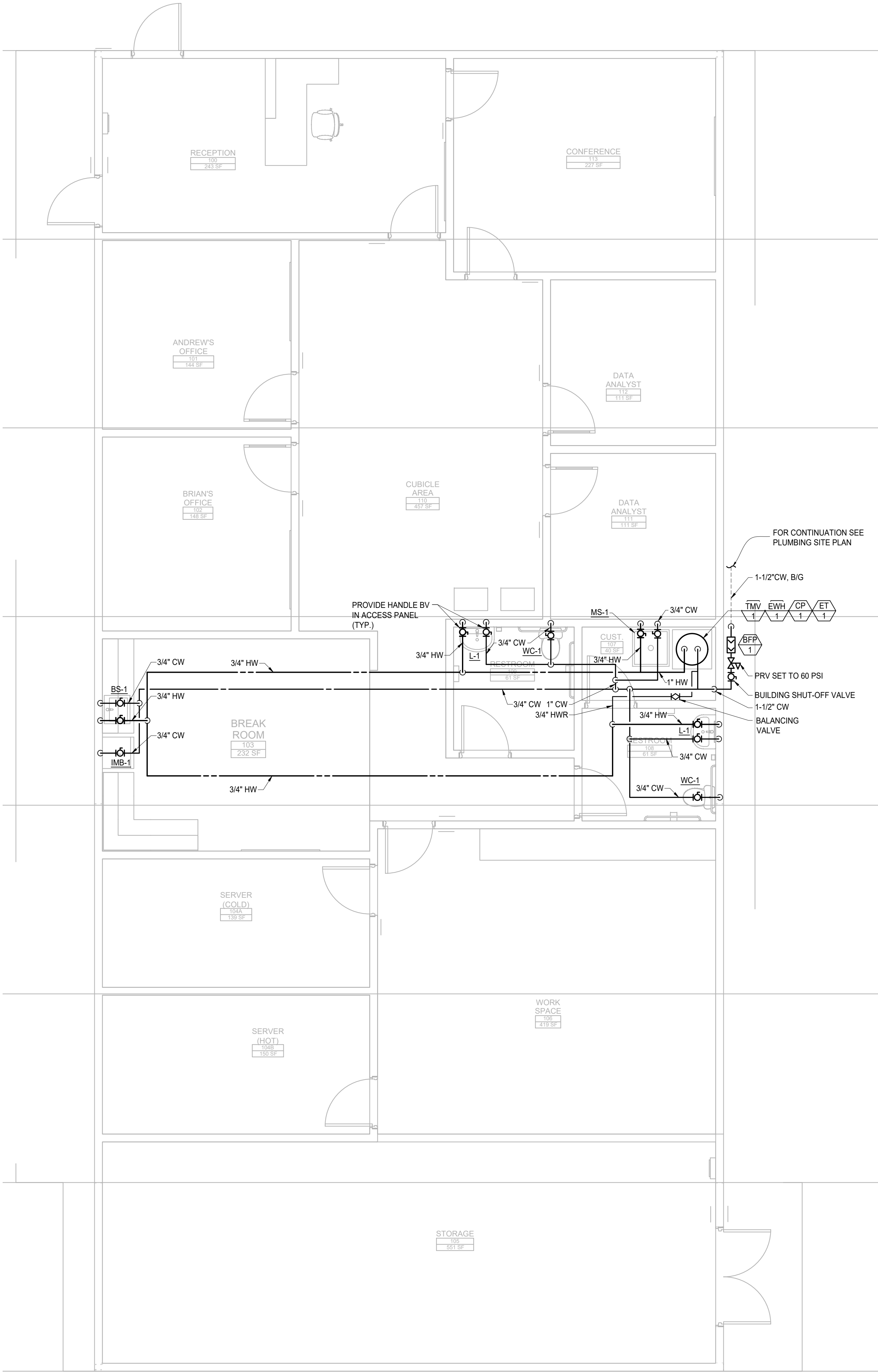
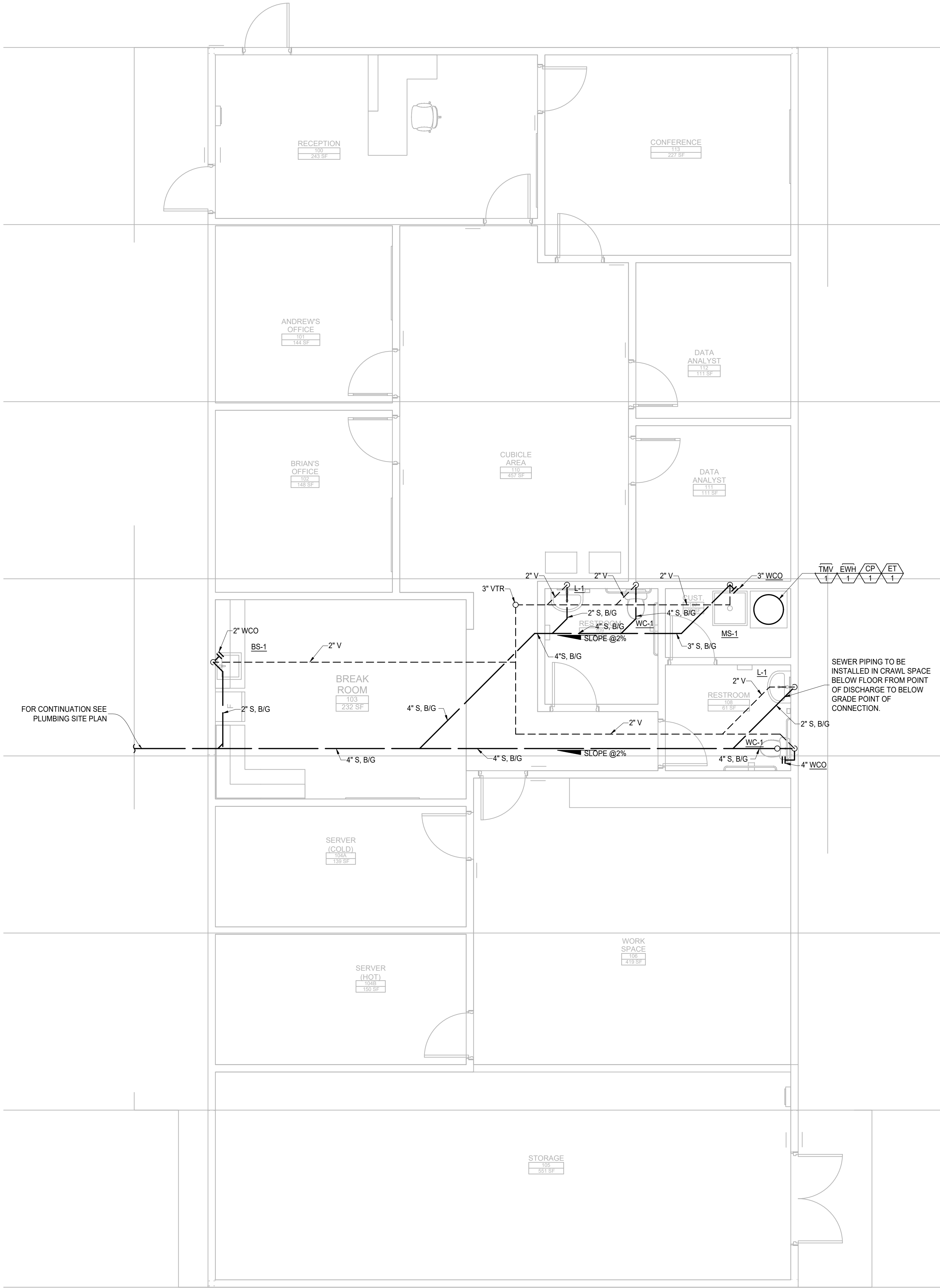
PROJECT NO: 23-003
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PLOT DATE:
10/27/2023

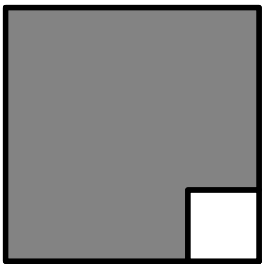
SHEET TITLE

PLUMBING
SCHEDULES

P002



ALPHASTUDIO DESIGN GROUP



6152 INNOVATION WAY
CARLSBAD, 92009
760-431-2444
www.alphastudio-design.com

ARCHITECT OF RECORD

ENGINEER OF RECORD



**LUSD Technology Dept.
Building**
LUSD Maintenance, Operations, & Transportation
9700 Riverview Ave.
Lakeside, CA 92040
Lakeside Union School District
12335 Woodside Ave. Lakeside CA 92040

REVISIONS		
MARK	DATE	DESCRIPTION
	12/13/2023	100% CD

PROJECT NO: 23-003

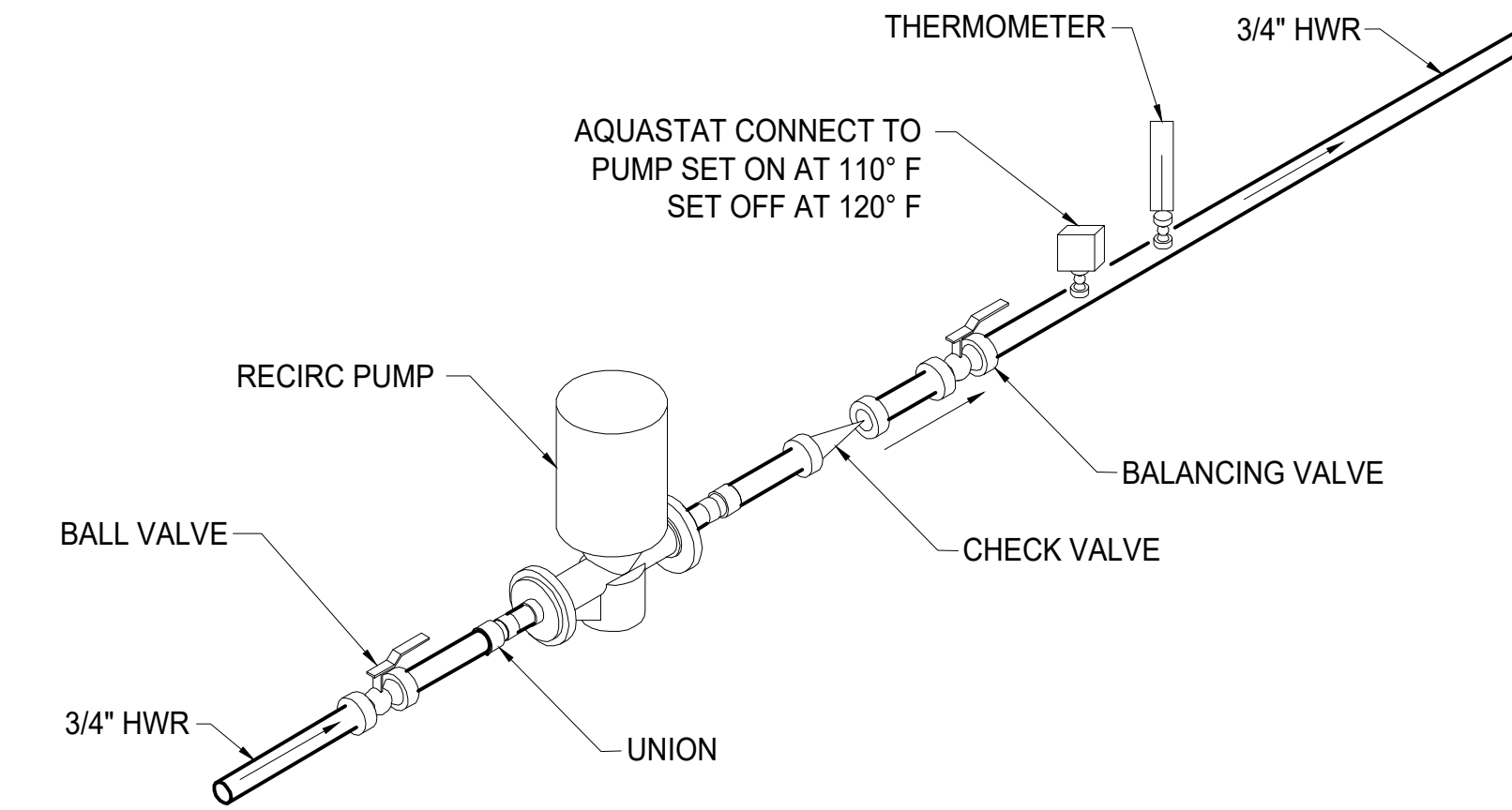
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PLOT DATE:
10/27/2023

SHEET TITLE

PLUMBING DWV AND
WATER FLOOR PLAN

P201



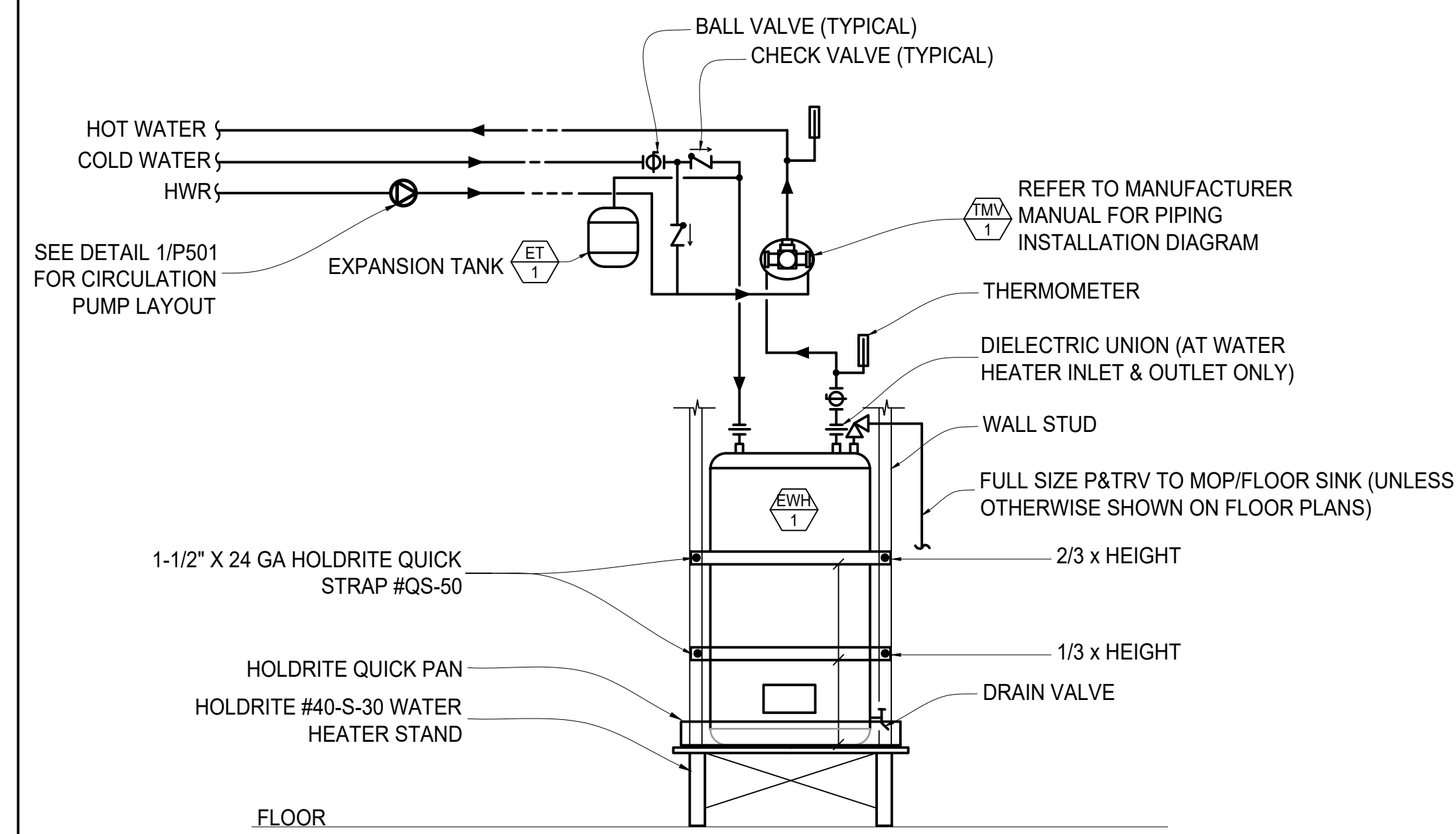
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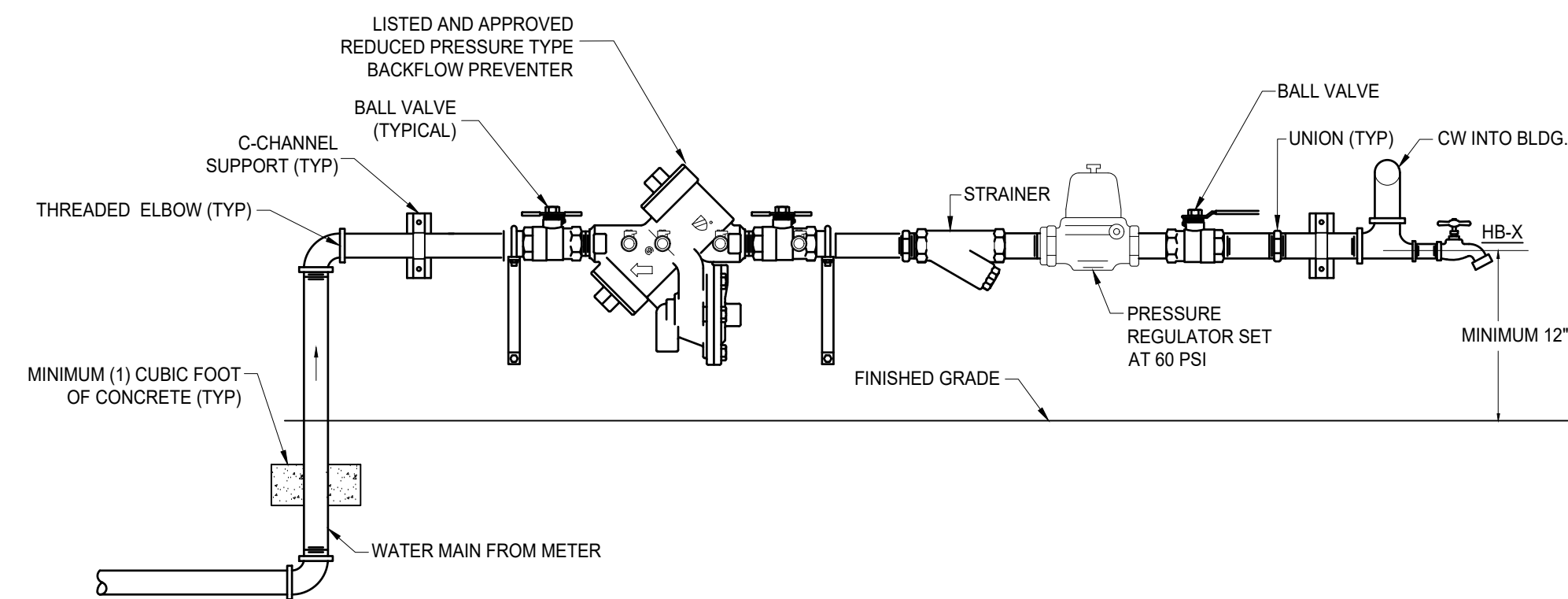
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CIRCULATION PUMP



ELECTRIC WATER HEATER



WATER SERVICE ENTRANCE

**LUSD Technology Dept.
Building**
LUSD Maintenance, Operations, & Transportation
9700 Riverview Ave.
Lakewood, CA 92040

Lakeside Union School District
12335 Woodside Ave. Lakeside CA 92040

REVISIONS		
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PROJECT NO: 23-003

MODEL FILE:
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PLOT DATE
10/27/2023

SHEET TITLE

PLUMBING DETAILS

P501

GENERAL SPECIFICATIONS

- A. THE REQUIREMENTS OF THE GENERAL CONDITIONS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
- B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.
- C. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE 2007, TITLE 24 PART 2,3,4,5,9 AND TITLE 24, PART 1, GROUP 1. A COPY OF THESE REGULATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS", SEE ESPECIALLY IR 16-1. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (UNO).
- D. CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CHANGE ORDER, SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CHANGE ORDERS SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.

1. MATERIALS AND WORKMANSHIP:

- A. ALL WORK SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED.
- B. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. THE CONTRACTOR SHALL CERTIFY THAT NO ASBESTOS CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
- D. TESTING: TESTS OF MATERIALS SHALL BE BY A PERSON OR TESTING LABORATORY SELECTED BY THE OWNER WITH THE APPROVAL OF DSA AND ARCHITECT. THE OWNER SHALL BE RESPONSIBLE FOR THE COST OF ALL REQUIRED TESTING AND INSPECTIONS, EXCEPT FOR THE RETESTING REQUIRED BY THE FAILURE OF ANY MATERIAL TO PASS.
- E. ERECTION AT THE SITE: THE BUILDING SHALL BE TRANSPORTED, ERECTED AND SET ON FOUNDATION AS REQUIRED BY A LICENSED TRANSPORT. ALL REQUIRED FINISH WORK SHALL BE COMPLETED BY SKILLED LABOR OF THE MANUFACTURER/CONTRACTOR, BUT WILL NOT INCLUDE UTILITIES SERVICE CONNECTION.
- F. SITE WORK: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. THE OWNER, UNLESS OTHERWISE SHOWN ON THE APPROVED PLANS, WILL PROVIDE SITE(S) SATISFACTORY TO THE ARCHITECT OR ENGINEER FOR THE INSTALLATION OF THE RELOCATABLE BUILDING(S) THAT ARE LEVEL AND HAVE STABLE SOIL CONDITIONS WITH ADEQUATE SITE DRAINAGE, EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR. IF ADDITIONAL GRADING AND/OR LEVELING IS NECESSARY FOR PROPER INSTALLATION OF MODULAR UNITS, THE ADDITIONAL CHARGE WILL BE THE RESPONSIBILITY OF THE OWNER.
- G. UTILITIES: THE OWNER WILL BE RESPONSIBLE FOR ANY AND ALL UTILITY, FIRE ALARM OR SPECIAL ELECTRICAL SIGNAL SYSTEM CONNECTIONS EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR.

2. SCOPE OF WORK:

- A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN ON DRAWINGS.
- B. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
- ASSEMBLY
- A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
- B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.
- C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

INSPECTION

- ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
- A. GENERAL RESPONSIBLE IN CHARGE OF FIELD ADMINISTRATION IS BY THE ARCHITECT OF RECORD.
- B. INSPECTION OF IN-PLANT WORK DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT'S ARCHITECT OR OWNER. THE INSPECTOR SHALL BE RESPONSIBLE TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BY THE SCHOOL DISTRICT OR OWNER.
- C. ON SITE INSPECTION OF THE BUILDING SHALL BE PERFORMED BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT OR OWNER.
- D. OTHER SPECIAL TESTS OR INSPECTIONS, SUCH AS CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

3. WORK NOT INCLUDED:

- A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
- B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- C. FIRE ALARM COMPONENTS ONLY, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

GENERAL DESIGN REQUIREMENTS:

THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS.

WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.

TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON THESE DRAWINGS.

NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) METAL IDENTIFICATION TAGS 3"x1 1/2" MINIMUM SIZE. MECHANICALLY FASTEN ONE TAG VISIBLE FROM THE EXTERIOR AND THE OTHER TO THE INTERIOR FRAME ABOVE THE CEILING AT THE END OF THE MODULE. THE TAG SHALL HAVE THE FOLLOWING INFORMATION:

- A. DSA APPROVAL NUMBER
B. BASIC WIND SPEED, EXPOSURE.
C. DESIGN ROOF LIVE LOAD
D. DESIGN FLOOR LIVE LOAD
E. BUILDER'S NAME
F. PLANT INSPECTOR/ID MARK
G. SERIAL NUMBER

STRUCTURAL FRAME - EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION IS ACCEPTABLE). WHEN MODULES ARE ASSEMBLED, JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE, SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS.

FRAMING - ROOF, WALLS AND FLOOR: FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

ROOF OVERHANG - ALL OVERHANGS SHALL PRESENT A PLEASING AND FINISHED APPEARANCE. SOFFIT MATERIAL, WHEN USED, SHALL BE 3/8" MIN EXTERIOR SIDING. PLYWOOD SOFFIT MATERIAL SHALL BE APPLIED WITH EXPOSED GRAIN RUNNING PARALLEL TO THE LENGTH OF THE BUILDING. SOFFIT SHALL BE NEATLY AND CLOSELY FITTED AND TRIMMED TO COVER GAPS. ALL ENCLOSED SOFFIT AREAS SHALL BE VENTILATED PER THE CBC

FLOOR - THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 LBS PER SQUARE FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

FIRE EXTINGUISHER - UL 2A-10BC, PRESSURE TYPE, 48" TO EXTINGUISHER HANDLE

BUILDING INSULATION - SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. FLAME SPREAD - MAX 25, SMOKE DEVELOP - MAX 450

BUILDING VENTILATION - PER SECTION 1203.3.1: OPENINGS FOR UNDER-FLOOR VENTILATION SHALL NOT BE LESS THAN 1 1/2 SQUARE FEET (0.135 m²) FOR EACH 25 LINEAR FEET (7620 LINEAR IN) OF EXTERIOR WALL. THEY SHALL BE COVERED WITH CORRISSION-RESISTANT WIRE MESH WITH MESH OPENINGS NOT LESS THAN 1/4 INCH (6.4 mm) NOR MORE THAN 1/2 INCH IN ANY DIRECTION.

WHEN MODULE IS RELOCATED - DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES.

ELECTRICAL

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS:

- ALL NEW COMPLYING WITH REQUIREMENTS OF CBC AND NFPA
- A. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHEARZARDIZED.
- B. PANEL BOARDS: FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS.
- C. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE- #12.
- D. RECEPTACLE: GENERAL ELECTRIC 5242-2 OR EQUAL, +18".
- E. CLOCK RECEPTACLE: EAGLE OR EQUAL.
- F. SWITCHES: GENERAL ELECTRIC 5901-2 OR EQUAL, +48".
- G. 2"x4" FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DBL. BALLAST, MAGNETIC ENERGY EFFICIENT (3) 34 WATT T-8 TUBES WEIGHT 27 LBS (UNO)
- H. ALL ELECTRICAL WIRING, 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF CEC MINIMUM SIZE CONDUIT IS 1/2" MIN
- I. ACCEPTABLE CONDUIT: RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL FLEXIBLE (INTERIOR); GALVANIZED STEEL FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH CEC FIELD BENDS SHALL BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HICKEY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE BUSHINGS OR CONNECTORS, JACKET. WIRING SHALL BE #14 MIN COPPER TYPE TW, THW, THWN AS APPLICABLE. CONDUIT FILL SHALL NOT EXCEED REQUIREMENTS OF CEC A SEPARATE GROUNDING CONDUCTOR SHALL BE PULLED THROUGHOUT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WIRE OR INSULATION DURING PULLING. POWDERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOW 77" LUBRICANT MAY BE USED IF NECESSARY.

3. WORKMANSHIP

MATERIAL AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK AREAS WITHOUT WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.

GROUNDING OF BUILDING COMPONENTS

1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, SHALL BE THE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC TABLE 250 AND DSA IR E-1.
2. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TESTS.

PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS, CFC CHAPTER 15

2. MATERIALS

- A. EXTERIOR WOOD- VISTA BRAND 4100 PRIMER, 6000 FINISH (OR EQUAL)
- B. INTERIOR TRIM- VISTA BRAND 7000 FINISH (OR EQUAL)
- C. METAL- VISTA BRAND 7000 FINISH (OR EQUAL)

3. WORKMANSHIP

- A. EXTERIOR- WOOD SIDING, TRIM AND SKIRTING- APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON
- B. INTERIOR TRIM- TRIM NOT PRE COATED SHALL BE PAINTED WITH TWO COATS OF SEMI GLOSS LATEX OVER PRIMER.
- C. METAL- ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
- D. RAMP- ONE COAT OF NONSKID SURFACING.

MECHANICAL SECTION

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. WORKMANSHIP:

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

3. EQUIPMENT:

- SEE A/C INFORMATION SCHEDULE FOR SIZE AND TYPE
- A. FACTORY MADE AIR DUCTS, FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF CMC, STANDARD #E-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH CMC STANDARD NO. 10-1 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING.
- B. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED, SECTION 719, 2007 CBC
- C. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50.
- D. AIR FILTERS: AIR FILTERS SHALL COMPLY WITH THE STANDARD FILTER UNITS & TEST PERFORMANCE THAT IS REFERENCED IN CHAPTER 17, AS CLASS 1 OR 11, SECTION 312, 2007 CMC
- E. PIPE AND TUBING: INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD-RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC SECTION 707.2

CARPENTRY

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS

- LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 16" OF WEST COAST LUMBER INSPECTION BUREAU OR "GRADING RULES FOR WESTERN LUMBER, 3rd EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1-95 FOR SOFTWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CURRENT CBC REFERENCE STANDARDS
- A. HEADERS: HEM FIR STUD GRADE OR BETTER
- B. PLATES: HEM FIR STUD GRADE OR BETTER
- C. BLOCKING: HEM FIR STUD GRADE OR BETTER
- D. TREATED LUMBER: SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY, ASPHALT OR EARTH-HEMLOCK FIR PRESSURE TREATED WITH PRESERVATIVE AS SPECIFIED IN 2303.1.8 OF CBC AWP A STANDARD U1 AND M4; 2X GRADE MEMBERS CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
- E. PLYWOOD ROOF DECKING: APA C-D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE. ON OVERHANGS, C-C PLUGGED AND TOUCH SANDED
- F. PLYWOOD FLOOR DECKING: APA STURD-I-FLOOR 48" OC 1-1/8" TONGUE AND GROOVE FLOOR SHEATHING.
- G. EXTERIOR SIDING/SHEATHING: APA TYPE 303, EXTERIOR, MDO 8" OC, SIDING. SHEATHING 1/2" CDX.
- H. STUDS AND POSTS: HEM FIR STUD GRADE
- I. FASTENERS: ALL NAILS SHALL BE CORROSION RESISTANT PER CBC SECTION 2304.9.1.1 & 2304.9.5
- J. BUILDING TRIM: 1x RESAWN SELECT HF OR MASONITE
- K. DOOR/WINDOW TRIM: 1x4 RESAWN HF

3. WORKMANSHIP

- A. FRAMING: SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
- B. NAILING: IN ACCORDANCE WITH CBC TABLE 2304.9.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS PER 2304.9.1.1 AND 2304.9.5
- C. EXTERIOR WALLS: FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS
- D. MACHINE APPLIED NAILING: SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY
- E. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING
- F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN
- G. THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL BE REQUIRED

SEALANT & WEATHER RESISTANTS

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.

2. MATERIALS:

- A. "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL, TO BE USED AT ALL STANDING SEAM ROOFING DETAILS.
- B. SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

MOISTURE BARRIER:

ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN THE CBC 1404.2 & 2510.6. BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE SEAM ROOFING DETAILS.

ZBAR:

ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR"- 3/4 x 5/8 x 3/4" FLASHING. FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED METAL FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD. APPLY SEALANT TO SEAM FOR WEATHER-RESISTANCE.

STRUCTURAL AND MISC STEEL

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND AS SPECIFIED AND INDICATED ON THE DRAWINGS, AND SERVICES REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL

2. MATERIALS:

- A. STRUCTURAL STEEL SHAPES SHALL BE ASTM A36, OPEN HEARTH OR ELECTRIC FURNACE ONLY, ALL REGULAR SHAPES AS DESCRIBED IN AISC CONSTRUCTION MANUAL, UNLESS OTHERWISE NOTED.
- B. COLD FORMED LIGHT GAUGE STEEL- ASTM A1011/A SS GRADE 33, MINIMUM YIELD 33,000 PSI
- C. STRUCTURAL PIPE - ASTM A53 MIN YIELD OF 35,000 PSI
- D. STRUCTURAL TUBING - ASTM A500 MIN YIELD OF 48,000 PSI
- E. BOLT MATERIAL- BOLTS AND NUTS, AMERICAN STANDARD REGULAR, AS DETAILED IN AISC CONSTRUCTION MANUAL, FABRICATED FROM STRUCTURAL QUALITY STEEL, ALL BOLTS SHALL BE ASTM A307 MACHINE BOLTS UNO
- F. ARC-WELDING ELECTRODES- CLASS E-70 SERIES FOR WELDING A36 STEEL TO A36 AND E60 SERIES FOR WELDING A1011/A SS STEEL TO A36, CONFORMING TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF AMERICAN WELDING SOCIETY, LATEST EDITION
- G. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE- RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS -20° F, AS REQ BY SECTION 2211A.2.3.

3. WORKMANSHIP

- A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLES 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS
- B. FABRICATING & ERECTING: FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A, DIVISION V). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. (THERE ARE NO SELF-SUPPORTING FRAMES ON THIS PROJECT - TEMPORARY BRACING IS REQUIRED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.) STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDING AS INDICATED ON THE DRAWINGS
- C. PRIMING: PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM STANDARDS
- D. WELDING: ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE - STEEL, AWS D1.1, LATEST EDITION, OF THE AMERICAN WELDING SOCIETY
- E. ALL WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT
- F. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH COR TITLE 24, PART 2, SECTION 2212A. ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2212A.1.
- G. NAILS, BOLTS, SCREWS, NUTS, ETC. EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
- H. HANDRAILS: FABRICATED AS DETAILED, WELDS GROUND SMOOTH.
- I. SHOP PAINT:
1. EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
 2. NON-EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
 3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOPS COAT
- J. TESTS: PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER SECTION 2212A.4 AND 1704A.3.1.

SHEET METAL

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS:

- A. SHEET METAL- STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A123. MINIMUM 26 GA
- B. SOLDIER- OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM B32
- C. FLUX- ZINC SATURATED MURATIC ACID.

3. WORKMANSHIP:

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT.

MODULAR STRUCTURES INTERNATIONAL, INC.

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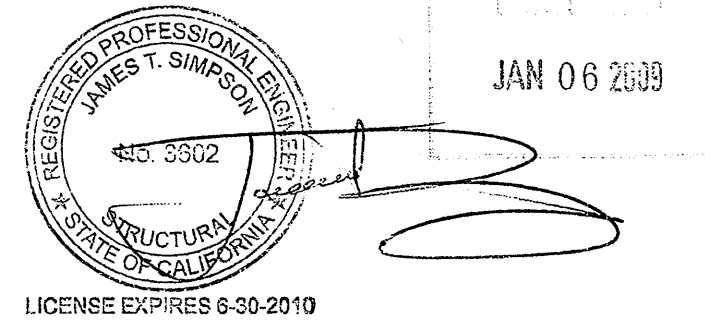
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

SPECIFICATIONS AND NOTES

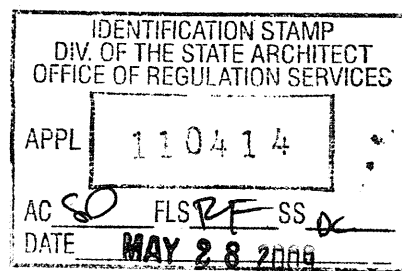
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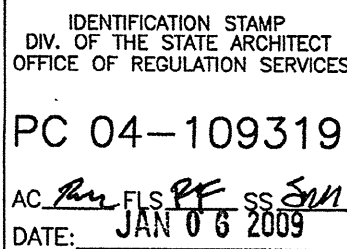
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

△ -	
△ -	
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△ -	
△ -	
△ -	

PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER

A0.1

ROOFING:

DENSITONE ULTRAPLY TPO:

PER CBC SECTION 1505 CLASS 'A' BASE SHEET FINISHED GRADE. FIRE-RSING ULTRAPLY TPO MEMBRANE ROOFING SYSTEM (THERMOPLASTIC POLYIN BASED MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE TPO MEMBRANES ARE PRODUCED WITH A POLYESTER WEFT INSERTED REINFORCEMENT. SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

STEVENS EP TPO:

PER CBC SECTION 1505 CLASS 'A' BASE SHEET FINISHED GRADE. STEVENS EP TPO MEMBRANE ROOFING SYSTEM (SCRIM REINFORCED ETHYLENE-PROPYLENE BASED MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE TPO MEMBRANES ARE SCRIM REINFORCED SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

1/4" DENS-DECK ROOF BOARD:

USED AS A UNDERLAYMENT FOR THE TPO MEMBRANE ROOFING SYSTEM. FLAME SPREAD MAX DEVELOPED: 0 PER ASTM E-84. INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

22 & 26 GAUGE METAL ROOFING:

UNPENETRATED INTERLOCKING ROOF PANELS MECHANICALLY CRIMPED AT TOP TO INSURE AGAINST WATER INFILTRATION, STANDING SEAM OR RIBBED TYPE. THE ROOFING SYSTEM SHALL BE FIRE RETARDANT PER CBC STANDARDS. TEST RESULTS TO SUPPORT CLASS 'A' RATING, SHOWING THE ROOF SYSTEM WILL WITHSTAND THE UPLIFT OF A 90 MPH WIND.

EXTERIOR:

PLYWOOD SIDING (DURATEMP):

ICC REPORT # ER-4856

LATH/FURRING AND PLASTER (STUCCO):

CBC SECTION 2507 & 2510:

PAPER (WATER-RESISTIVE BARRIER) PER SECTION 1404.2 & 2510.6: A MINIMUM OF ONE LAYER OF NO.15 ASPHALT FELT COVERING WITH ASTM D 228 FOR TYPE I, FELT OR OTHER APPROVED MATERIAL SHALL BE ATTACHED TO STUDS OR SHEATHING WITH FLASHING AS DESCRIBED IN SECTION 1405.3, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL FINISH.

SELF-FURRING LATH (VERTICAL APPLICATION): USE SELF-FURRING LATH CONFORMING TO 1/4" O.C. REQUIREMENTS OF ASTM C 933 SECTION 5.12. INSTALL SELF-FURRING LATH PER DSA IR 25-1 AND ASTM C 1063.

RIB LATH (HORIZONTAL APPLICATION): USE 3/8" RIB LATH PER ASTM C 847. PROVIDE MIN 1/2" SIDE LAP WITH WIRE TIES AT 6" O.C. PROVIDE 1" END LAPS OVER SUPPORTS WITH MAJOR RIBS NESTED.

CEMENT: INSTALL AND COMPLY WITH SECTIONS 2510.3, 2512, AND ASTM C 926.

WINDOWS:

HORIZONTAL SLIDING, 50% VENTING, ANODIZED ALUMINUM FRAME. PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND MEDIUM EXPOSURE. MAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SLIDING MATERIAL. REMOVABLE SCREEN AT VENT SASHES. LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN. DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8" GLASS (SEE WINDOW SCHEDULE FOR SIZES)

INTERIOR:

INTERIOR WALL COVERINGS:

APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8" ORIENTED STRAND BOARD. EXPOSED SURFACES FIRE RATED PER ASTM E-84, FLAME SPREAD MAXIMUM 200, SMOKE DEVELOPED MAXIMUM 450. (PROVIDE FIRE BLOCKING WHEN 3/8" OSB IS USED AS BACKING MATERIAL)

VINYL TACKBOARD:

VINYL WALL COVERING TO BE CLASS III DOMTAR GYPSUM OR EQUAL LAMINATED ONTO 1/2" INDUSTRIAL INSULATION BOARD 1/4" X9'-0", LONG EDGES BEVELED. FLAME SPREAD = 65 SMOKE DENSITY = 175

FRP:

FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0" X 8'-0" WITH COLOR MATCHED PVC MOLDED OVER 1/2" GYPSUM. FLAME SPREAD = 25 SMOKE DEVELOPMENT = 450 CLASS A PER ASTM E-84

MARKER BOARDS:

1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER. CHALK TRAY MAY NOT PROJECT MORE THAN 4".

CEILING:

SUSPENDED T-BAR SYSTEM:

PERFORMANCE RATED ASTM C-635 HEAVY DUTY FLAME SPREAD MAX 0-25, SMOKE DEVELOP MAX 450.

ACOUSTIC LAY-IN CEILING PANELS:

LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E-84. VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV. CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E-1264

FLOORING:

CARPET:

PROVIDE GLUE-DOWN OR FIRM CUSHION, PAD OR BACKING OR NO CUSHION PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/JUNCT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" PER SECTION 1124B.3. EXPOSED EDGES OR CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 1124B.2.

VINYL SHEET FLOORING:

MINIMUM WEAR LAYER .050" THICK, PERFORMANCE RATED PER ASTM F1306-90 TYPE-II, GRADE-1, CLASS-A, AND ASTM F970 125 PSI, FIRE RATED PER ASTM E848 FLAMMABILITY CLASS-I, AND ASTM E862 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D-2047 & CBC SECTION 1124B.1.

VINYL COMPOSITION TILE:

12" SQUARE, MINIMUM 1/8" THICK, PERFORMANCE RATED PER ASTM F1066, COMP-1, CLASS-2, AND ASTM F970 75 PSI, FIRE RATED PER ASTM E848 FLAMMABILITY CLASS-1, AND ASTM E862 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D2047

TOP SET BASE:

BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQ

CERAMIC TILE FLOORING:

CERAMIC TILE FLOORING SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

QUARRY TILE FLOORING:

QUARRY TILE FLOORING SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

DOORS:

FINISH HARDWARE:

HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

HARDWARE:

MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE 36" TO 44" AFT PER CBC SECTION 1133B.2.5.2. PRESSURE TO OPERATE THE DOOR SHALL NOT EXCEED: 5 LBS (22.2 N) FOR EXTERIOR DOORS, 5 LBS (22.2 N) FOR INTERIOR DOORS & WHEN FIRE DOORS ARE REQUIRED 5 LBS (22.2 N) MAX OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.72 N). 1133B.2.5. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS 1133B.2.1, 1003.3.1, 1133B.2.5.1 & 1008.1.5.1.

CLOSER:

DOOR CLOSER, WHEN PROVIDED, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. 1133B2.5.1.

THRESHOLD:

THRESHOLD SHALL COMPLY WITH CBC SECTION 1133B.2.4.1 & 1008.1.6.

FLOOR STOPS:

FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS. POLICY 99-08.

EXIT DEVICES:

PANIC HARDWARE SHALL COMPLY WITH CBC STANDARDS AND SHALL BE MOUNTED 36" TO 44" ABOVE FINISHED FLOOR SURFACE. THE UNLATCHING FORCE SHALL NOT EXCEED 15# APPLIED IN THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1008.1.9. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, CBC 1008.1.9.

HOLLOW METAL DOORS AND FRAMES:

DOORS-TYPE L FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' OR APPROVED EQUAL (UNO)
FRAMES-16 GA COLD ROLLED 2" FACES (UNO)
SEE SHEET A0.3 FOR DOOR AND FRAME INFORMATION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES (UNO)

GENERAL FINISHES:

FINISHES:

ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8, CFC AND TITLE 19 COR.

SHEET INDEX:

NOTE: THE SHEET INDEX APPLIES TO ALL PROJECTS THAT ARE PC ONLY. THE SHEET INDEX IS INVALID WHEN NEW SHEETS ARE IMPLEMENTED. THE PURPOSE OF THE SHEET INDEX IS TO EXPEDITE PLAN REVIEWS DURING AN OVER-THE-COUNTER APPOINTMENT. THE REQUIRED CORRESPONDING SHEETS BELOW HAVE BEEN REVIEWED BY DSA DURING THE APPROVAL PROCESS OF THIS PC. CROSS OUT AND OR LINE OUT THE SUBJECTS THAT DON'T APPLY.

REQUIRED SHEETS (ALL CASES AT ALL TIMES):

A0.0, A0.1, A0.2, A0.3, A0.4, A2.0, A8.0, A8.2, S0.0, S0.3, S1.0, S2.0, S2.1, S3.2, S4.0, M0.0, M3.0 (WALL MOUNT) OR M3.1 (ROOF MOUNT) & E0.0

REQUIRED SHEETS FOR 24'x40' BUILDINGS:

A1.1, A2.1, A4.1, A5.1 (WOOD SIDING) OR A5.1 (STUCCO SIDING), M1.1 (WALL MOUNT A/C) OR M2.1 AND M2.2 (ROOF MOUNT A/C), & E1.0

REQUIRED SHEETS FOR 48'x40' BUILDINGS:

A1.2, A2.2, M1.2, A8.2 (WOOD SIDING) OR A5.5 (STUCCO SIDING), M1.2 (WALL MOUNT A/C) OR M2.3 AND M2.4 (ROOF MOUNT A/C), & E2.0

REQUIRED SHEETS FOR 48'x40' BUILDINGS:

A1.3, A2.3, M1.3, A5.4 (WOOD SIDING) OR A5.6 (STUCCO SIDING), M1.3 (WALL MOUNT A/C) OR M2.6 AND M2.6 (ROOF MOUNT A/C), & E3.0

REQUIRED SHEETS FOR 22' GA. ROOF FINISH:

A3.1, A3.2 & E3.0

REQUIRED SHEETS FOR 22' GA. ROOF FINISH:

A3.1, A3.2 & E3.0

REQUIRED SHEETS FOR TPO FINISH:

A3.5, A3.6 & E3.0

REQUIRED SHEETS FOR WOOD PAD FOUNDATION:

F1.0 + F1.1 (PLYWOOD FLOOR) OR F4.2 (CONCRETE FLOOR)

REQUIRED SHEETS FOR ABOVE GRADE FOUNDATION:

F2.0 + F2.0 & F2.1

REQUIRED SHEETS FOR FLUSH TO GRADE FOUNDATION:

F2.0 + F2.0 & F2.1

REQUIRED SHEETS FOR PLYWOOD FLOORS:

S0.1 & S1.1

REQUIRED SHEETS FOR CONCRETE FLOORS:

S0.2 & S1.2

WALL FRAMING TYPES:

S3.0 (WOOD STUDS) OR S3.1 (STEEL STUDS)

OPTIONAL SHEETS FOR BUILDINGS 60' 0" TO 120' 0" HIGH:

A9.0

OPTIONAL SHEETS FOR FIRE RATED DETAILS:

A9.0

OPTIONAL SHEETS FOR BUILDINGS 60' 0" TO 120' 0" HIGH:

A9.0

OPTIONAL SHEETS FOR PLUMBING:

P3.0 + F1.0 (24'x40') OR F2.0 (36'x40') OR P3.0 (48'x40')

OPTIONAL SHEETS FOR RAMPING:

R0.0 + F1.0 OR R2.0 OR R3.0 OR R4.0

OPTIONAL SHEETS FOR STAIRS:

R0.0 & R0.0

MISCELLANEOUS SHEET FOR BLOCKING DETAILS:

A8.1

MODULAR STEEL MOMENT FRAME TEST & INSPECTION GUIDELINE

A SEPARATE DSA STATEMENT OF TEST AND SPECIAL INSPECTIONS (DSA FORM 103) IS TO BE SUBMITTED AS PART OF THE APPROVAL PROCESS.

THIS GUIDE IS TO BE USED TO IDENTIFY THE REQUIREMENTS BASED ON THE VARIOUS TYPES OF CONSTRUCTION

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT

(X - INDICATES TEST OR INSPECTION TO BE DONE)

TESTS OR INSPECTIONS (as described on DSA-103)			(X - INDICATES TEST OR INSPECTION TO BE DONE)							
			STOCKPILE				CONSTRUCTION OF (disposition material/stockpiled material)		RELOCATION OF CERTIFIED BUILDING	
MATERIAL TYPE	TEST OR INSPECTION NO.	DESCRIPTION	Wood Floor Only	Concrete Floor	Plywood Floor Only	Concrete Foundation	Concrete Foundation	Concrete Foundation	Wood Foundation	Concrete Foundation
GENERAL	1	Site has been prepared properly prior to fill					X	X		X
	2	Fill excavations subjected to proper depth and Materials below fill are adequate								
	28	Proctor Qualification Testing of Fill Materials					X	X		X
	29	Verify use of proper fill materials, proper fill materials, placement and compaction during placement of compacted fill					X	X		X
	30	Test Compressive of established SI					X	X		X
CONCRETE	25	Verify use of required design mix		X						
	26	Perform Slump and (where required) Air Content Test, determine Temperature of Concrete		X						
	72	Test concrete Compressive Tests					X	X		
	73	Verify use of required design mix								
	74	Perform Slump and (where required) Air Content Test, determine Temperature of Concrete								
LIGHT WEIGHT FILL OVER METAL DECK	75	Inspect bedding of concrete (see note call below (see Note 1))					X	X		
	76	Perform of Slab Test Foundation								
	77	See Note 1 for conditions and requirements								
	78	Inspect placement of concrete, embedding and embedded items over Steel Deck - by RSP					X	X		X
	79	Verify use of required design mix								
FOUNDATION	80	Test Foundation: Slab - See Note 2 for Method					X	X		X
	76	Perform Slump and (where required) Air Content Test, determine Temperature of Concrete					X	X		X
	77	Test concrete Compressive Tests					X	X		X
	78	Inspect bedding of concrete (see note call below (see Note 1))								
	12	Test concrete Compressive Tests					X	X		X
POST INSTALLED ANCHORS See Note 3	110	Inspect installation of post-installed anchors					X	X		X
	111	Test post-installed anchors								
	17a	Material and appropriate manual spec. Certified Weld Test Results Material Specs, Types and Grades comply with requirements	X	X	X	X	X	X		
	17b	Sample and Test of Unstiffened Structural Steel and Steel Deck	X	X	X	X	X	X		
	17c	Examine cross-sections of structural tubes and plates	X	X	X	X	X	X		
MATERIAL VERIFICATION	17d	Verify member locations, loading and all details located in the field	X	X	X	X	X	X		
	17e	Verify member locations, connection tab locations and all construction details fabricated in the shop	X	X	X	X	X	X		
	18a	Verify weld filler material identification meeting per AWS specification listed on the DSA approved documents and the WPS	X	X	X	X	X	X		
	18b	Verify weld filler material manufacturer's certificate of compliance	X	X	X	X	X	X		
	18c	Verify WPS, welder qualifications and equipment	X	X	X	X	X	X		
SHIP WELDING	18.1a	Inspect groove, root face, and fillet welds to 5/16"	X	X	X	X	X	X		
	18.1b	Inspect groove, root face, and fillet welds to 5/16"	X	X	X	X	X	X		
	18.1c	Inspect welding of plates and rolling supports See Note 4	X	X	X	X	X	X		
	18.2a	Inspect groove, root face, and fillet welds to 5/16"	X	X	X	X	X	X		
	18.2b	Inspect groove, root face, and fillet welds to 5/16"	X	X	X	X	X	X		
FIELD WELDING	18.2c	Inspect groove, root face, and fillet welds to 5/16"	X	X	X	X	X	X		X
	22a	Other welding - Inspect welding of solid formed steel Per AWS Specification	X	X	X	X	X	X		
	22b	Other welding - Inspect welding of steel floor deck welds Per AWS Specification	X	X	X	X	X	X		
	230	Structural grounding, Field/Shop	X	X	X	X	X	X	X	X
	230	Concrete/Reinforcing steel in field and shop	X	X	X	X	X	X	X	X
OTHER - GROUNDING										
WELDER QUALIFICATION										
RESECTION CLAUSE (when not applicable)			RSP or Class 1		In Place RSP or Class 1 See Class 4 or Single Ship See Class 2 for Two-Ship			Class 4 for Single Ship Class 2 for Two-Ship		
INSPECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY			By the Owner and approved by the Project Inspector and Testing Agency		By the Owner and approved by the Project Inspector and Testing Agency			By the Owner and approved by the Project Inspector and Testing Agency		
COPIES OF THE REPORT TO:			CIS (Owner) LOI (RSP) Sponsor (Owner) Anti-Risk (Owner and DSA-4)		CIS (Owner) LOI (RSP) Sponsor (Owner) Anti-Risk (Owner and DSA-4)			Structural Engineer General Engineer Manufacturing		
COST OF THE PROJECT INSPECTOR (GA Admin Code 4-23326)			By the Owner		By the Owner			By the Owner		
COST OF THE TESTING AGENCY (GA Admin Code 4-23326)			By the Owner		By the Owner			By the Owner		

HARDWARE GROUP (ENTRY) 1		
QTY.	ITEM	DESCRIPTION
3	HINGES	'INDEPENDENCE': IP-4545BBNRP-260 4.5"x4.5"
1	LOCK SET	'SCHLAGE': N070PD WITH RHODES LEVER, 626
1	KEYING	MSI CONSTRUCTION KEY
1	CLOSER	'INDEPENDENCE': IC-611ADA (5 LB CLOSING PRESSURE)
1	THRESHOLD	'HAGER': 413SA 36"
1	DOOR BOTTOM	'HAGER': 783SAV 36"
1	WEATHER-STRIP	'HAGER': 891SAV
1	KICK PLATE	'HAGER': 190S 10"x34"
1	DOOR STOP	'HAGER': 243F FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PANIC) 2		
QTY.	ITEM	DESCRIPTION
3	HINGES	'INDEPENDENCE': IP-4545BBNRP-260 4.5"x4.5"
1	LOCK SET	'VON DUPRIN': PUSH BAR 22L RIM EXIT DEVICE 686
1	EXTERIOR TRIM	'VON DUPRIN': LEVER HANDLE 230L TRIM
1	KEYING	'SCHLAGE': 20-001 MORPHE, 260
1	CLOSER	'INDEPENDENCE': IC-611ADA (5 LB CLOSING PRESSURE)
1	THRESHOLD	'HAGER': 413SA 36"
1	DOOR BOTTOM	'HAGER': 783SAV 36"
1	WEATHER-STRIP	'HAGER': 891SAV
1	KICK PLATE	'HAGER': 190S 10"x34"
1	DOOR STOP	'HAGER': 243F FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PRIVACY) 3		
QTY.	ITEM	DESCRIPTION
3	HINGES	'CAL ROYAL': TBHRC-33 4"x4" L2
1	LOCK SET	'SCHLAGE': ND40S WITH RHODES LEVER, 626

HARDWARE GROUP (OFFICE) 4		
QTY.	ITEM	DESCRIPTION
3	HINGES	'CAL ROYAL': TBHRC-33 4"x4" L2
1	LOCK SET	'SCHLAGE': ND53PD WITH RHODES LEVER, 626
1	KEYING	MSI CONSTRUCTION KEY

HARDWARE GROUP (PASSAGE) 5		
QTY.	ITEM	DESCRIPTION
3	HINGES	'CAL ROYAL': TBHRC-33 4"x4" L2
1	LOCK SET	'SCHLAGE': ND10S WITH RHODES LEVER, 626

HARDWARE GROUP (STORAGE) 6		
QTY.	ITEM	DESCRIPTION
3	HINGES	'CAL ROYAL': TBHRC-33 4"x4" L2
1	LOCK SET	'SCHLAGE': N080PD WITH RHODES LEVER, 626
1	KEYING	MSI CONSTRUCTION KEY

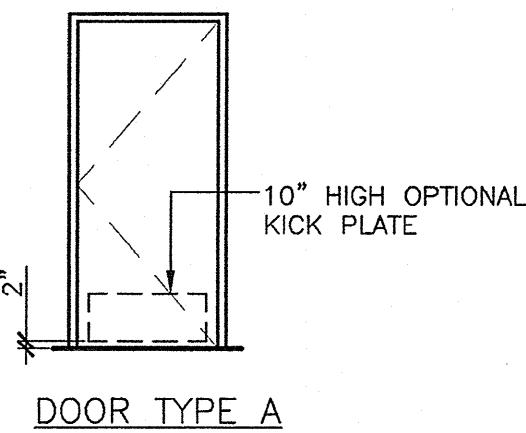
HARDWARE GROUP (MULTI-USE EXT. R.R.) 7		
QTY.	ITEM	DESCRIPTION
3	HINGES	'INDEPENDENCE': IP-4545BBNRP-260 4.5"x4.5"
1	LOCK SET	'SCHLAGE': N080PD WITH RHODES LEVER, 626
1	KEYING	MSI CONSTRUCTION KEY
1	CLOSER	'INDEPENDENCE': IC-611ADA (5 LB CLOSING PRESSURE)
1	THRESHOLD	'HAGER': 413SA 36"
1	DOOR BOTTOM	'HAGER': 783SAV 36"
1	WEATHER-STRIP	'HAGER': 891SAV
1	DOOR STOP	'HAGER': 243F FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	'L&L LOUVERS': SU-50 24"x12"

HARDWARE GROUP (SINGLE-USE EXT. R.R.) 8		
QTY.	ITEM	DESCRIPTION
3	HINGES	'INDEPENDENCE': IP-4545BBNRP-260 4.5"x4.5"
1	LOCK SET	'SCHLAGE': L9496 "OCCUPIED" INDICATOR RHODES LEVER 06, 626
1	KEYING	MSI CONSTRUCTION KEY
1	CLOSER	'INDEPENDENCE': IC-611ADA (5 LB CLOSING PRESSURE)
1	THRESHOLD	'HAGER': 413SA 36"
1	DOOR BOTTOM	'HAGER': 783SAV 36"
1	WEATHER-STRIP	'HAGER': 891SAV
1	DOOR STOP	'HAGER': 243F FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	'L&L LOUVERS': SU-50 24"x12"

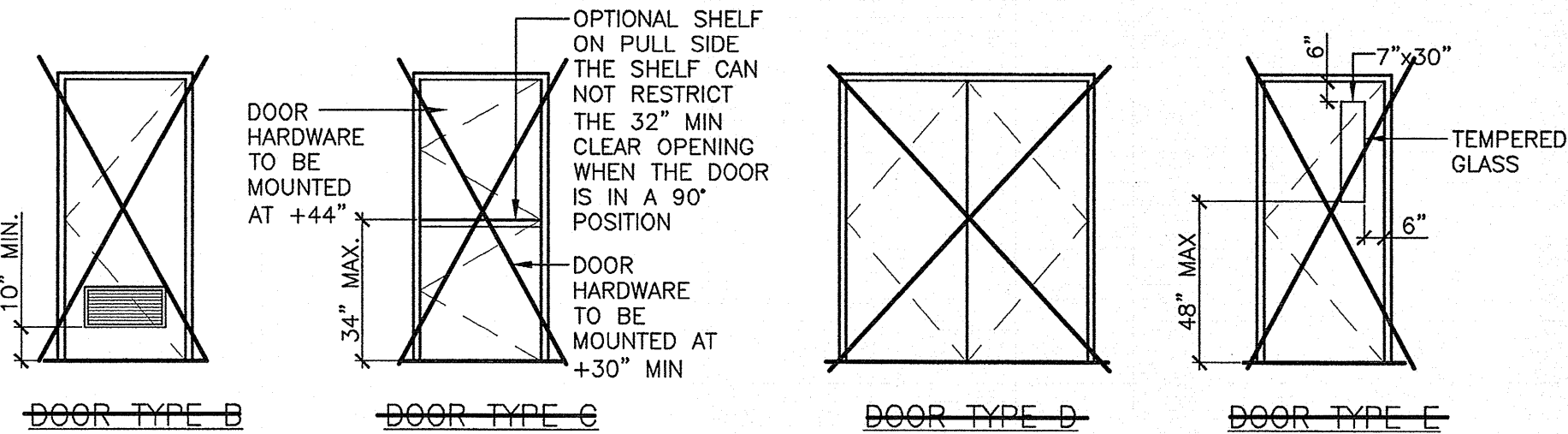
DOOR SCHEDULE											
#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
100	A	3'-0"	7'-0"	1	STL	18	KD	16	-	-	-
200A	A	3'-0"	7'-0"	2	STL	18	KB	16	-	-	-
200B	A	3'-0"	7'-0"	2	STL	18	KB	16	-	-	-
300	A	3'-0"	7'-0"	2	STL	18	KB	16	-	-	-
300A	A	3'-0"	7'-0"	5	SCW		TM		-	-	-
301	A	3'-0"	7'-0"	2	STL	18	KB	16	-	-	-
3	A	3'-0"	7'-0"	3	SCW	-	TM	-	-	-	-
4	B	3'-0"	7'-0"	-	STL	18	WF	16	-	-	W/24"x18" LOUVER
5	C	3'-0"	7'-0"	-	SCW	-	TM	-	-	-	DUTCH DOOR
6	D	2'-3'-0"	7'-0"	-	STL	18	WF	16	-	-	DOUBLE DOOR
7	E	3'-0"	7'-0"	-	STL	18	WF	16	YES	-	SEE GLAZING SIZE BELOW

DOOR MATERIAL LEGEND
 STL: STEEL DOOR-HOLLOW CORE
 SCW: SOLID CORE WOOD
 SCL: SOLID CORE WOOD LEGACY
 HCLW: HOLLOW CORE WOOD
 SF: STORE FRONT

DOOR FRAME LEGEND
 WF: WELDED FRAMING-HOLLOW METAL
 TM: TIMELY METAL
 KD: KNOCK DOWN-HOLLOW METAL
 SF: STORE FRONT



STANDARD DOOR TYPE



OPTIONAL DOOR TYPES

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
				ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
100	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
200	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
300	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
301	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
101	RR/JANITOR/URINAL	SV	6TB	FRP	FRP	FRP	FRP	AT	8'-0"	-
201	RR/JANITOR/URINAL	SV	6TB	FRP	FRP	FRP	FRP	AT	8'-0"	-
302	RR/JANITOR/URINAL	SV	6TB	FRP	FRP	FRP	FRP	AT	8'-0"	-
303	RR/JANITOR/URINAL	SV	6TB	FRP	FRP	FRP	FRP	AT	8'-0"	-

NOTE: FINISHES BY OWNER SHALL COMPLY WITH SPECIFICATIONS ON SHEET A0.2

FLOOR FINISH LEGEND
 CPT: CARPET FLOORING
 SV: SHEET VINYL FLOORING
 VCT: VINYL COMPOSITION TILE
 4TB: 4" TOP SET BASE
 6TB: 6" TOP SET BASE
 6SC: 6" SELF COVE BASE
 80: BY OWNER

WALL FINISH LEGEND
 VT: 1/2" VINYL TACK BOARD OVER 1/2" GYPSUM BOARD
 FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER 1/2" MOISTURE RESISTANT GYP BOARD
 GYP: 1/2" GYPSUM BOARD, TAPE/TEXTURED/PAINTED
 VTK: 1/2" VINYL TACK BOARD OVER 5/8" TYPE 'X' GYP BOARD
 GYMR: 1/2" MOISTURE RESISTANT GYPSUM BOARD, TAPE/TEXTURED/PAINTED

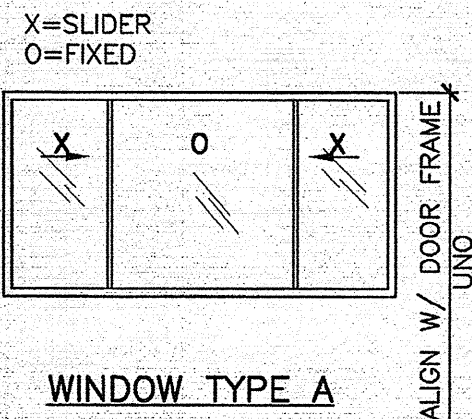
CEILING FINISH LEGEND
 AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID
 HLB: 1/2" THICK (5/8" THICK OPTIONAL) MOISTURE RESISTANT GYPSUM BOARD, TAPE/TEXTURED/PAINTED (HARD LID)

WINDOW SCHEDULE							
#	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	REMARKS
A	8'-0"	4'-0"	AL	CA	1&4	-	SCREENED
B	6'-0"	4'-0"	AL	CA	1&4	-	SCREENED
C	4'-0"	4'-0"	AL	CA	1&4	-	SCREENED
D	8'-0"	2'-0"	AL	CA	1&4	-	SCREENED

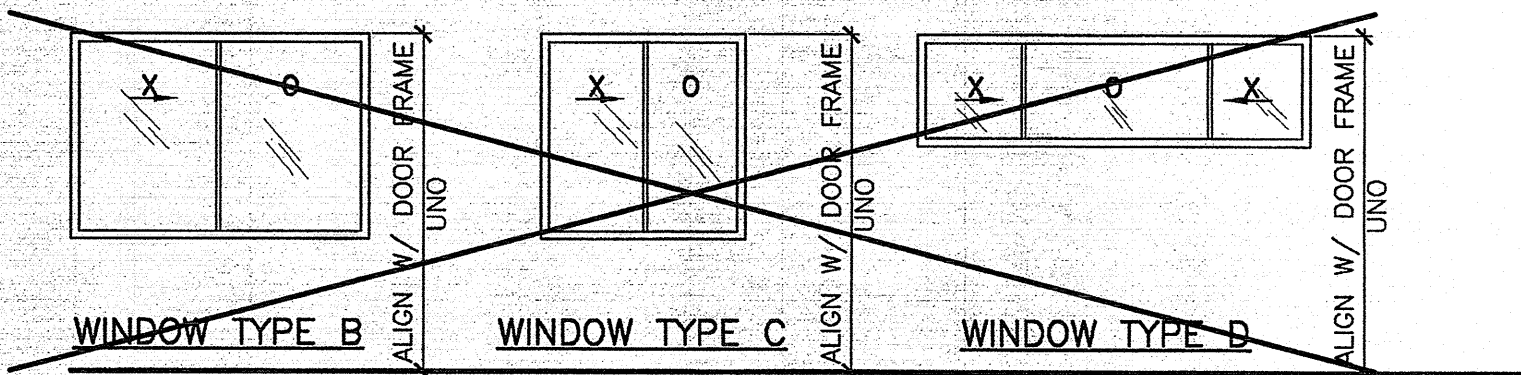
WINDOW FRAME LEGEND
 AL: ALUMINUM
 HM: HOLLOW METAL

WINDOW FINISHES
 CA: CLEAR ANODIZED
 BA: BRONZE ANODIZED
 PND: PAINTED

GLAZING TYPES
 1: 46% TEMPERED GRAYLITE
 2: 14% TEMPERED GRAYLITE
 3: CLEAR TEMPERED
 4: DUAL PANE
 5: SINGLE PANE



STANDARD WINDOW TYPE



OPTIONAL WINDOW TYPE

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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
FINISH SCHEDULES

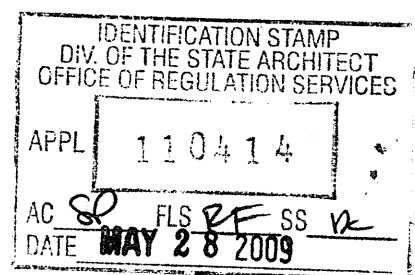
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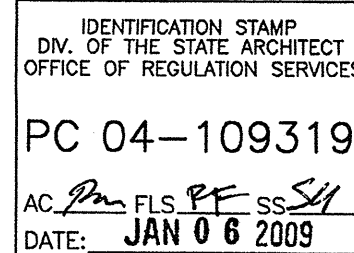
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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



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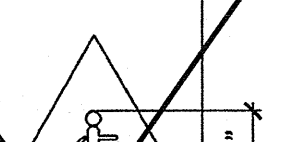

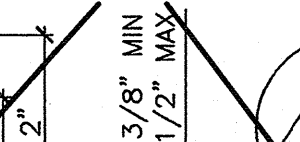


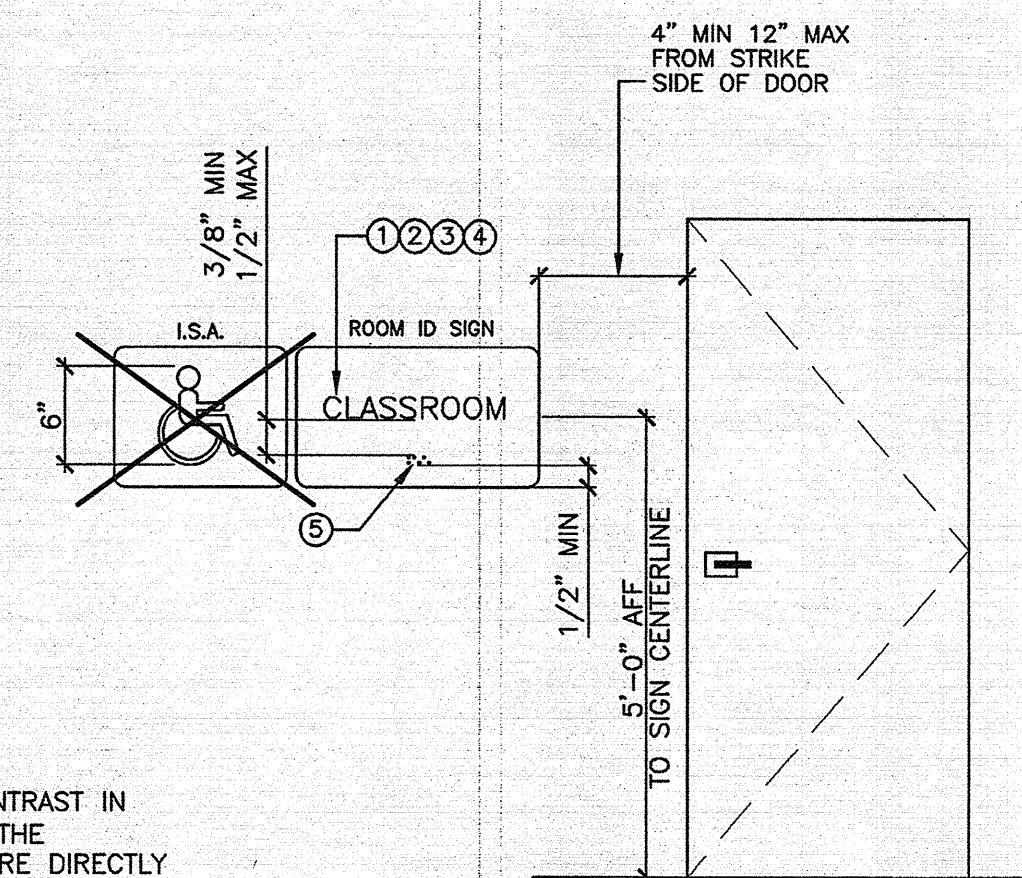
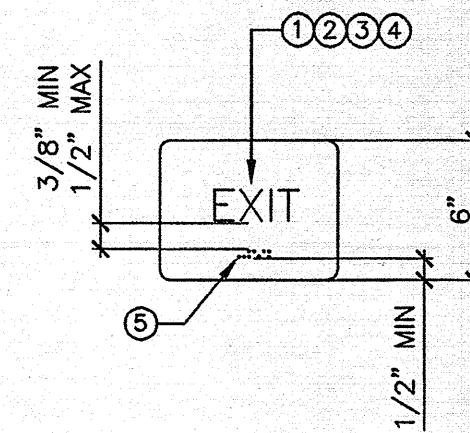
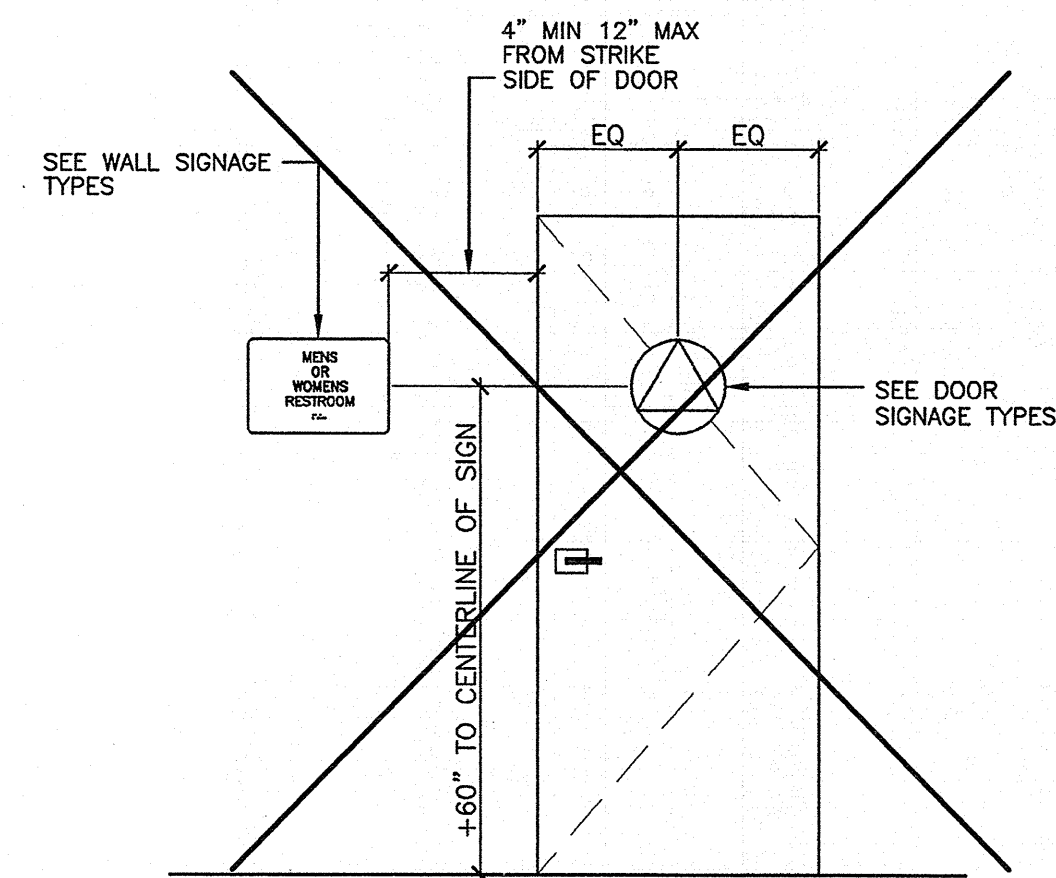
REVISIONS

PROJECT NO.: 09-****
 DRAWN BY: MA
 SCALE: AS NOTED
 DATE: 05-22-09
 SHEET NUMBER

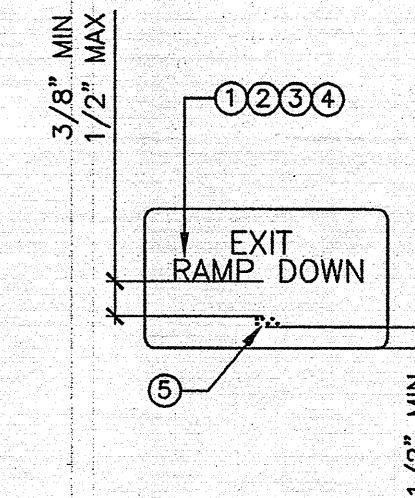
A0.3

DOOR SIGNAGE TYPES:

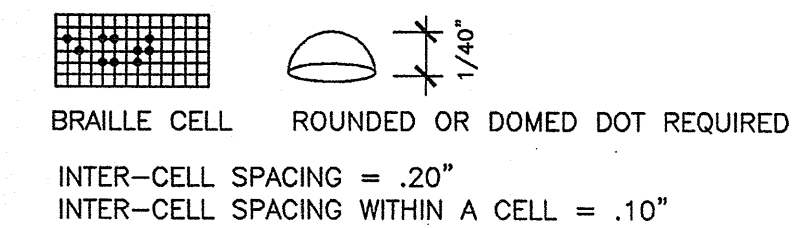
 <p>3/8" MIN 1/2" MAX</p> <p>12"</p> <p>6"</p> <p>1/2" MIN</p> <p>12" EQUILATERAL TRIANGLE 1/4" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY</p>	 <p>3/8" MIN 1/2" MAX</p> <p>12"</p> <p>6"</p> <p>1/2" MIN</p> <p>12" Ø CIRCLE 1/4" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY</p>	 <p>3/8" MIN 1/2" MAX</p> <p>12"</p> <p>6"</p> <p>1/2" MIN</p> <p>UNISEX RESTROOM SIGN 1/4" THICK TRIANGLE SUPERIMPOSED OVER 1/4" THICK CIRCLE TRIANGLE MUST CONTRAST IN COLOR FROM THE CIRCLE. THE CIRCLE MUST CONTRAST IN COLOR FROM THE DOOR.</p>
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- GENERAL NOTES:
1. ALL SIGNS MUST CONTRAST IN COLOR (70%) FROM THE BACKGROUND THEY ARE DIRECTLY MOUNTED ON.
 2. EXIT SIGNAGE PER CBC SECTION 1117B.5.1.2.
 3. RESTROOM SIGNAGE PER CBC SECTION 1117B.5. RESTROOM WALL AND FLOOR SIGNAGE BY MANUFACTURER (UNO)
 4. CLASSROOM SIGNAGE IS FURNISHED AND INSTALLED BY OTHERS ON-SITE. ARCHITECT TO SPECIFY DESIGN AND SIZE.
 5. EXIT TACTILE SIGN BY MANUFACTURER

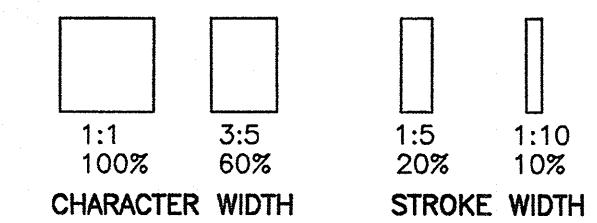


- ① CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MIN AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
- ② CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MIN OF 5/8" AND A MAX OF 2".
- ③ FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN AND HAVE A NONE- GLARE FINISH. 1117B.5.2
- ④ PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 1117B.5.3
- ⑤ BRaille: CALIFORNIA CONTRACTED GRADE #2 BRaille SHALL BE USED WHEREVER BRaille IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL 1/10" OC IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED M CELL. DOTS SHALL BE RAISED A MIN OF 1/40" ABOVE THE BACKGROUND. 1117B.5.6



ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I,X, AND O AT 1" HIGH. PLACE THE TEMPLATES 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1", NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE OF THE STROKE OF THE I IS TOO BROAD AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH THE PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO
HEIGHT PROPORTIONS:



AS NEEDED

6"

6"

60" MIN

FINISH FLOOR

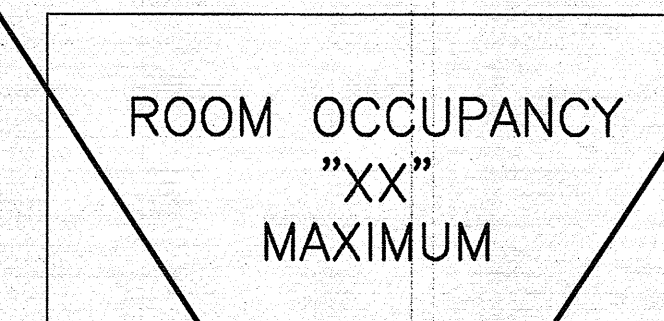
ASSISTIVE LISTENING SYSTEM AVAILABLE

AT: _____

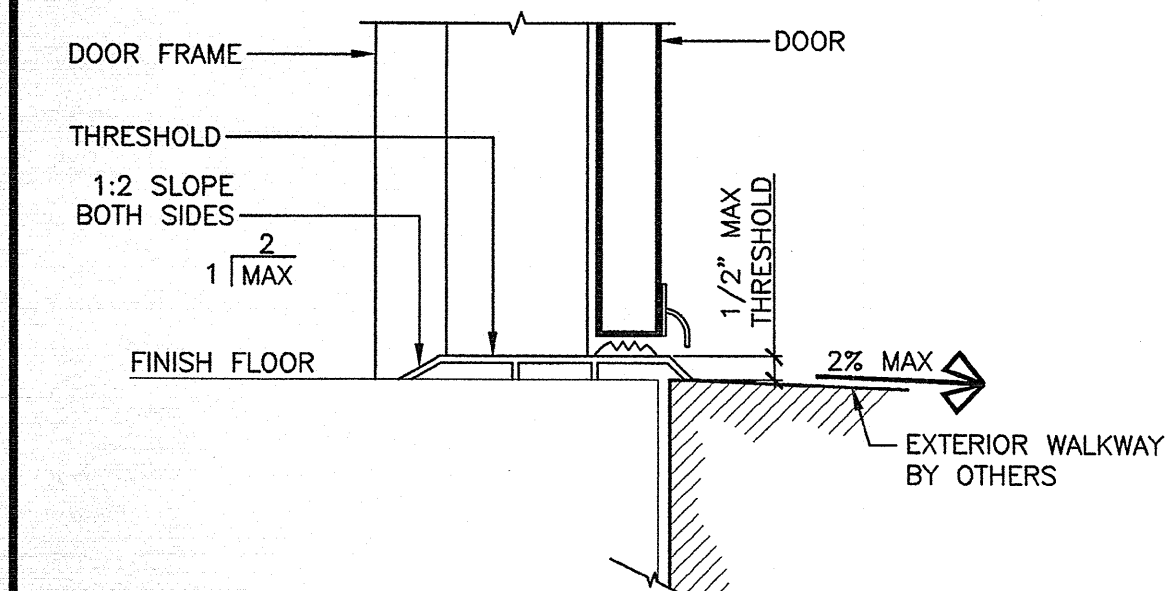
PRIOR ARRANGEMENTS MUST BE MADE FOR EVENTS AFTER BUSINESS HOURS

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS
COLOR: BLUE

- NOTES:
1. SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC, WITH 1/32" RAISED BORDER, GRAPHICS AND LETTERS PROVIDED MECH. MOUNTING WITH VANDAL RESISTANT FASTENERS.
 2. CBC SECTION 1104B.2
THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN CONSTRUCTION.
 3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS.
 4. SIGN TO BE HAVE BLUE BACKGROUND WITH WHITE LETTERS.



- NOTES:
1. SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC, WITH 1/32" RAISED BORDER, GRAPHICS AND LETTERS PROVIDE MECH. MOUNTING WITH VANDAL RESISTANT FASTENERS.
 2. CBC SEC. 1004
THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.
 3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS.



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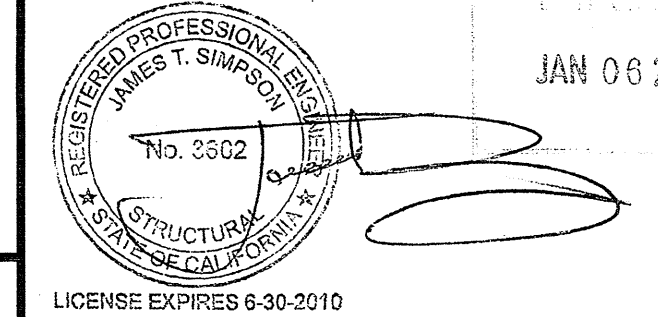
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
**SIGNAGE SPECIFICATIONS
AND ACCESSIBILITY**

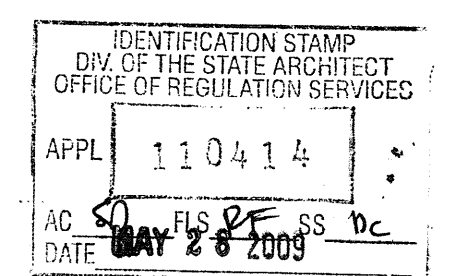
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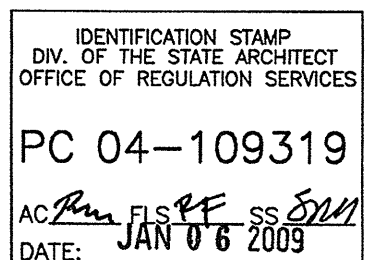
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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS
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REVISIONS

PROJECT NO.:	09-****
DRAWN BY:	MA
SCALE:	AS NOTED
DATE:	05-22-09

SHEET NUMBER

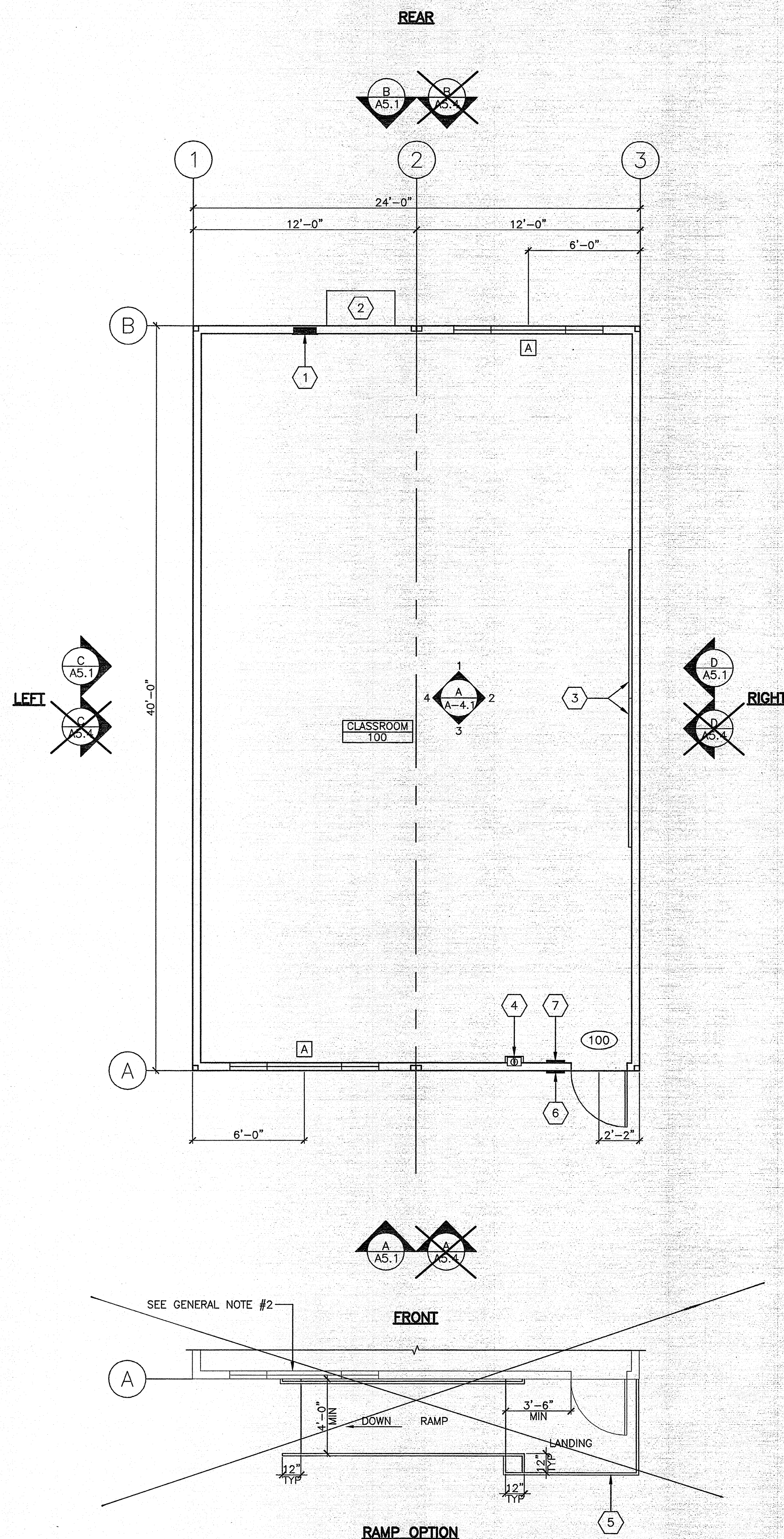
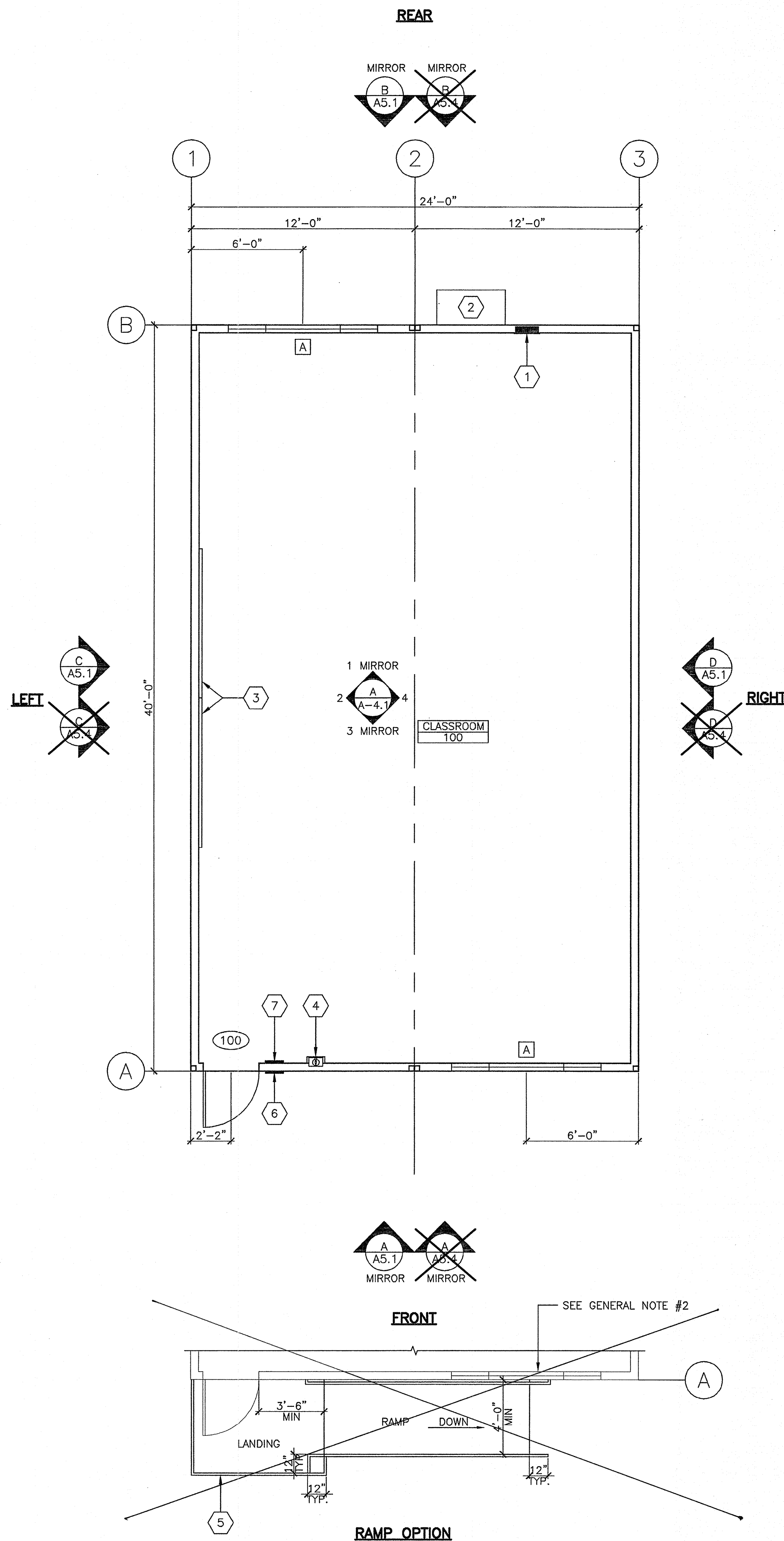
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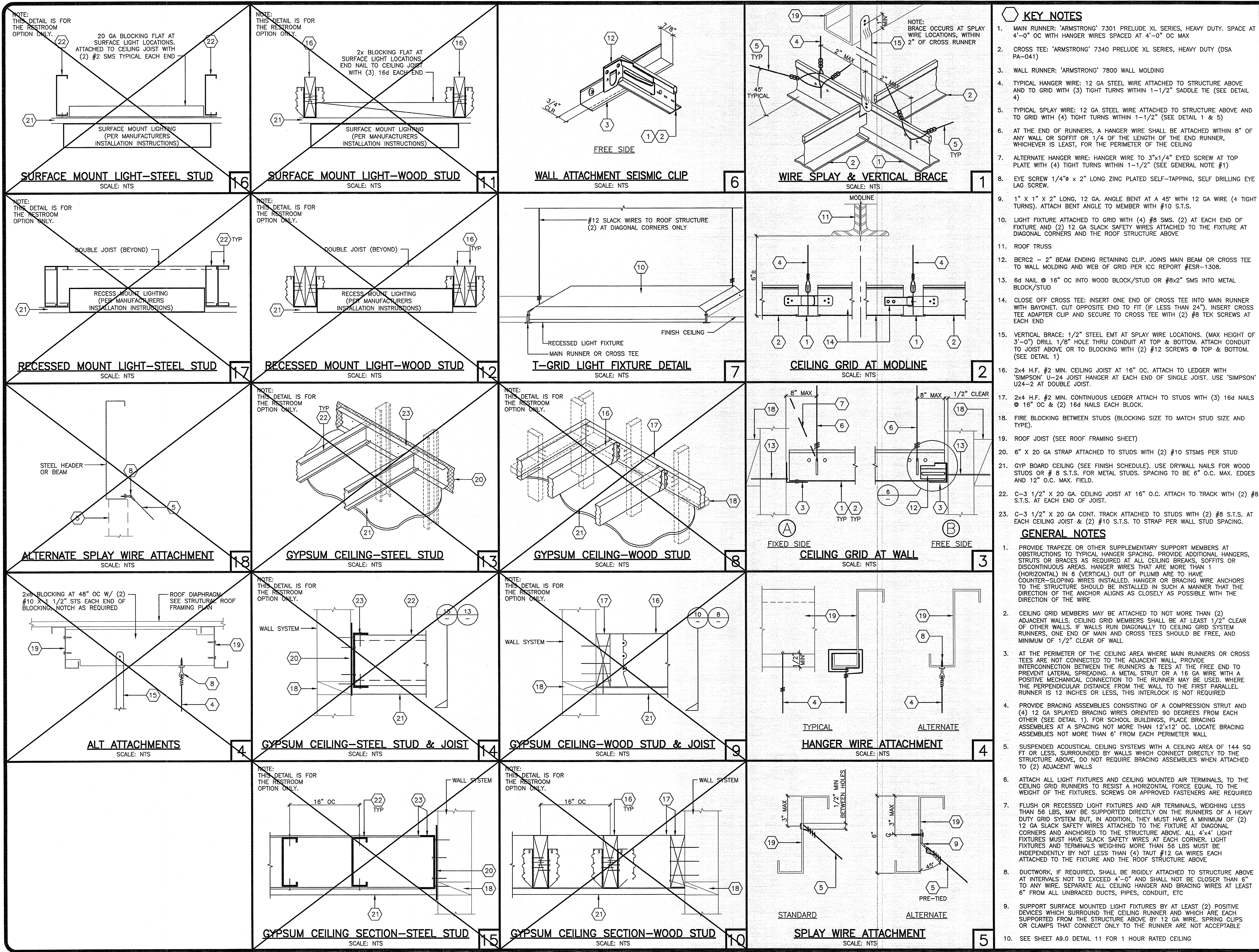
KEY NOTES

1. ELECTRICAL PANEL (SEE ELECTRICAL SHEETS)
2. AC UNIT (SEE MECHANICAL SHEETS)
3. 8'x4' MARKER BOARDS +30" AFF
4. FIRE EXTINGUISHER-5 LB DRY CHEMICAL W/ 2A-10B-C UL RATING +48" AFF TO HANDLE IN SEMI-RECESSED CABINET WITH 4" MAX PROJECTION, TYP
5. RAMP AND LANDING (SEE RAMP DETAILS, 'R' SHEETS)
6. ROOM SIGNAGE (SEE SIGNAGE SPECIFICATIONS A0.4 SHEET)
7. EXIT SIGNAGE (SEE SIGNAGE SPECIFICATIONS A0.4 SHEET)

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY OTHERS ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/RO.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:
OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING
OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 18/RO.0





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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

REFLECTED CEILING DETAILS

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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

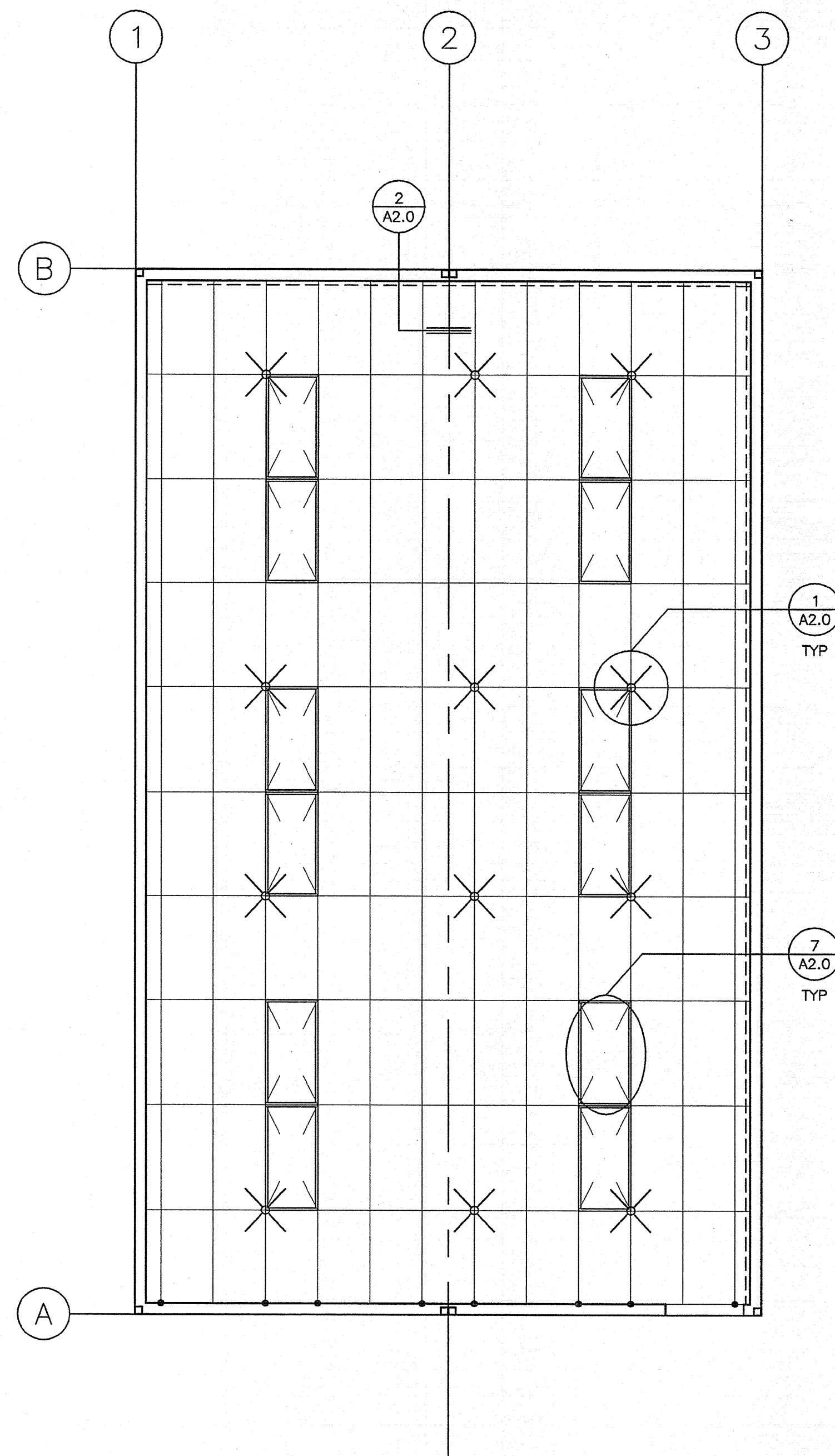
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REVISIONS

PROJECT NO.: 09-****
 DRAWN BY: MA
 SCALE: AS NOTED
 DATE: 05-22-09

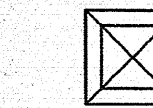
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A2.0

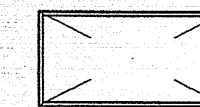


REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND



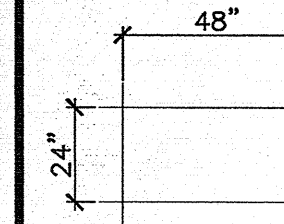
SUPPLY AIR DIFFUSERS NOT SHOWN FOR CLARITY (SEE MECHANICAL PLAN)



2'x4' FLUORESCENT DROP-IN FIXTURE (SEE ELECTRICAL PLAN)



4-WAY SPLAY WIRE SYSTEM



T-GRID CEILING



INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0)



INDICATES MAIN RUNNER LOCATIONS

MODULAR STRUCTURES INTERNATIONAL, INC.

920 CITRUS AVENUE, RIVERSIDE, CALIFORNIA 92507
PHONE: (951) 788-3035 FAX: (951) 788-1523
TOLL FREE: (800) 690-4MSI
WWW.MODULAR-STRUCTURES.COM

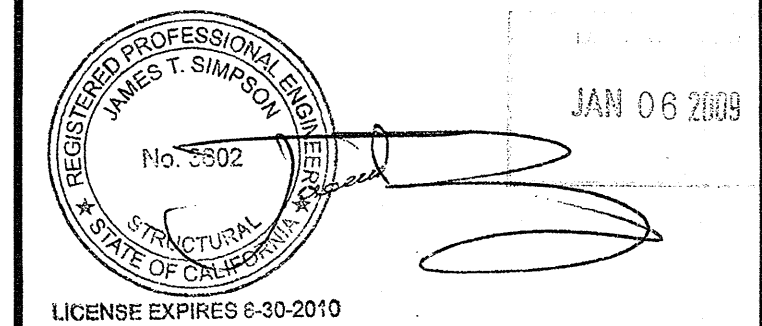
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
**REFLECTED CEILING PLAN
24'x40'**

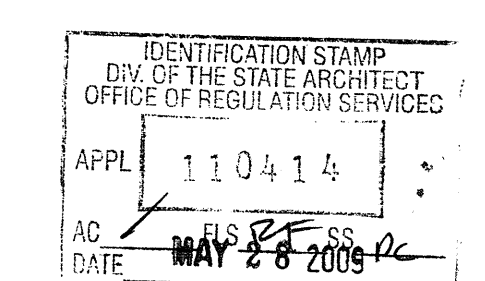
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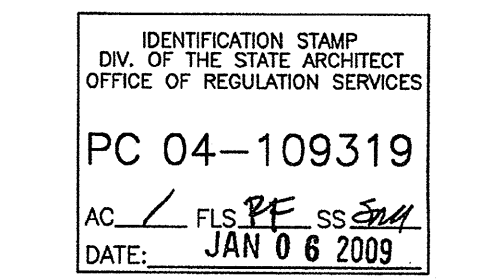
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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



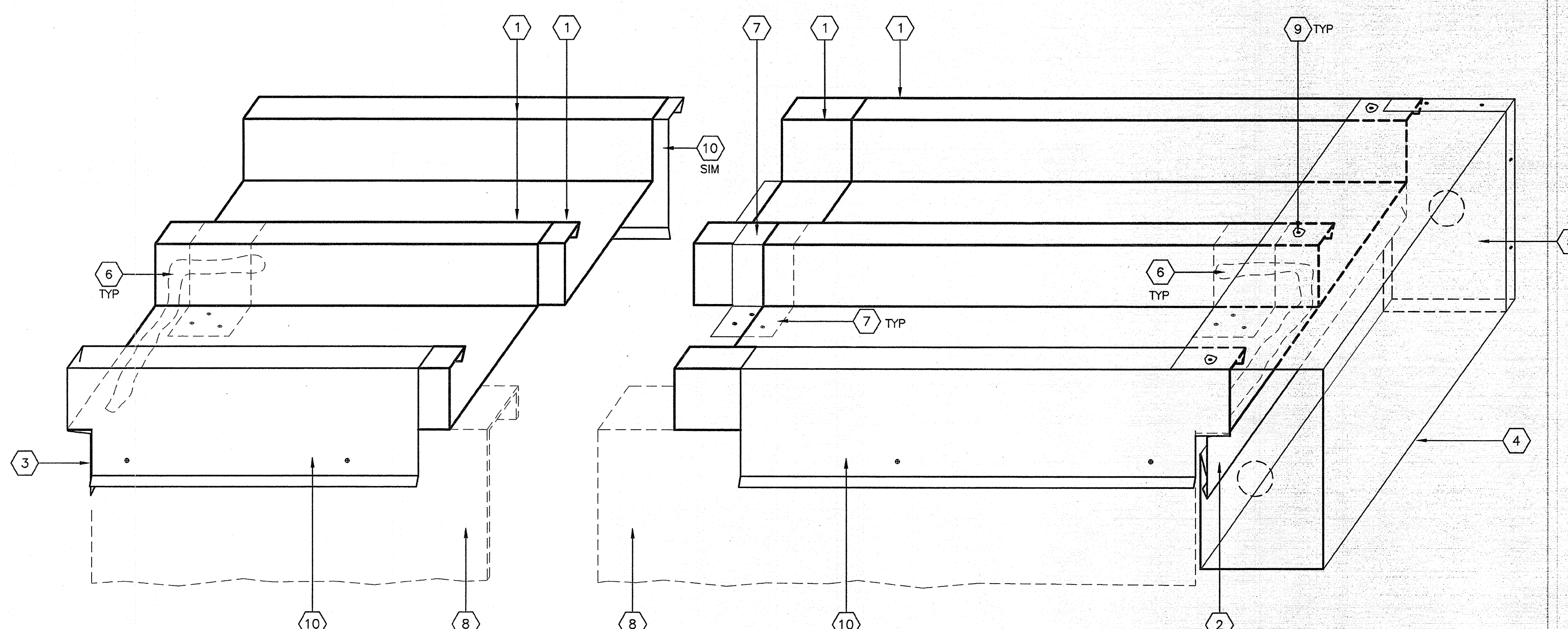
REVISIONS

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PROJECT NO.:	09-****
DRAWN BY:	MA
SCALE:	AS NOTED
DATE:	05-22-09
SHEET NUMBER	

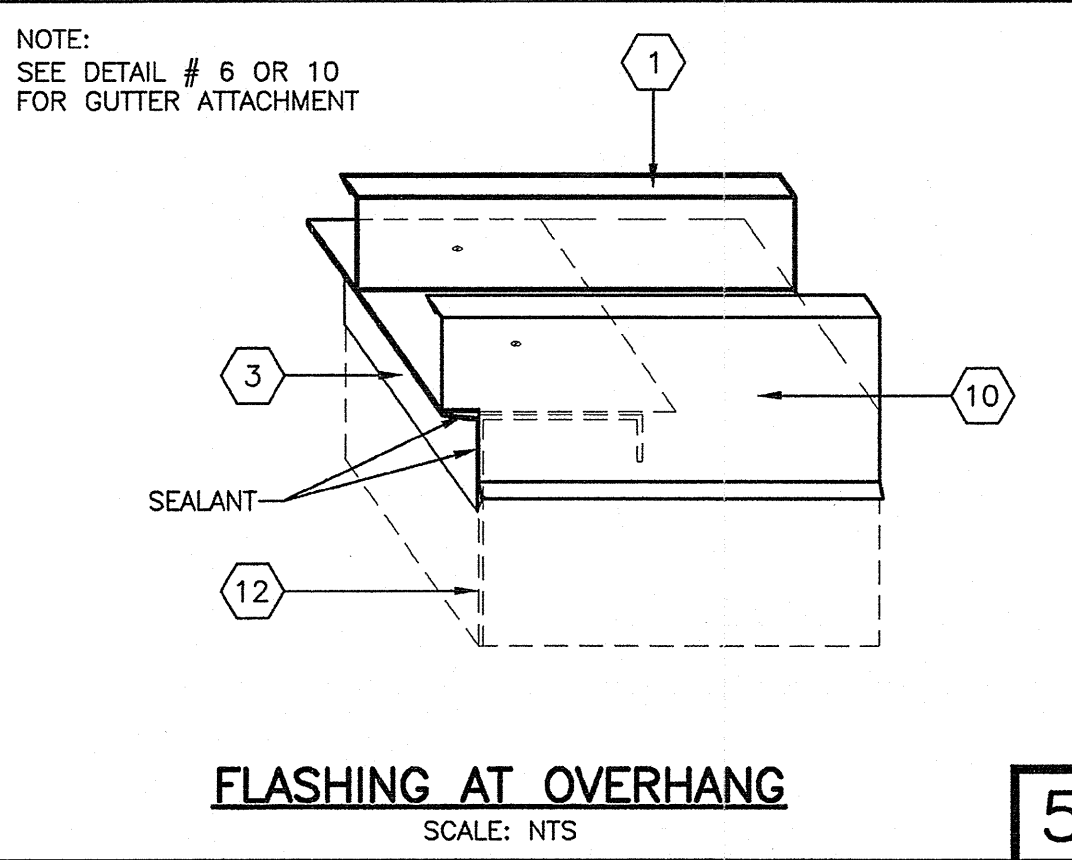
A2.1

FOR NOTES SEE
SHEET A2.0



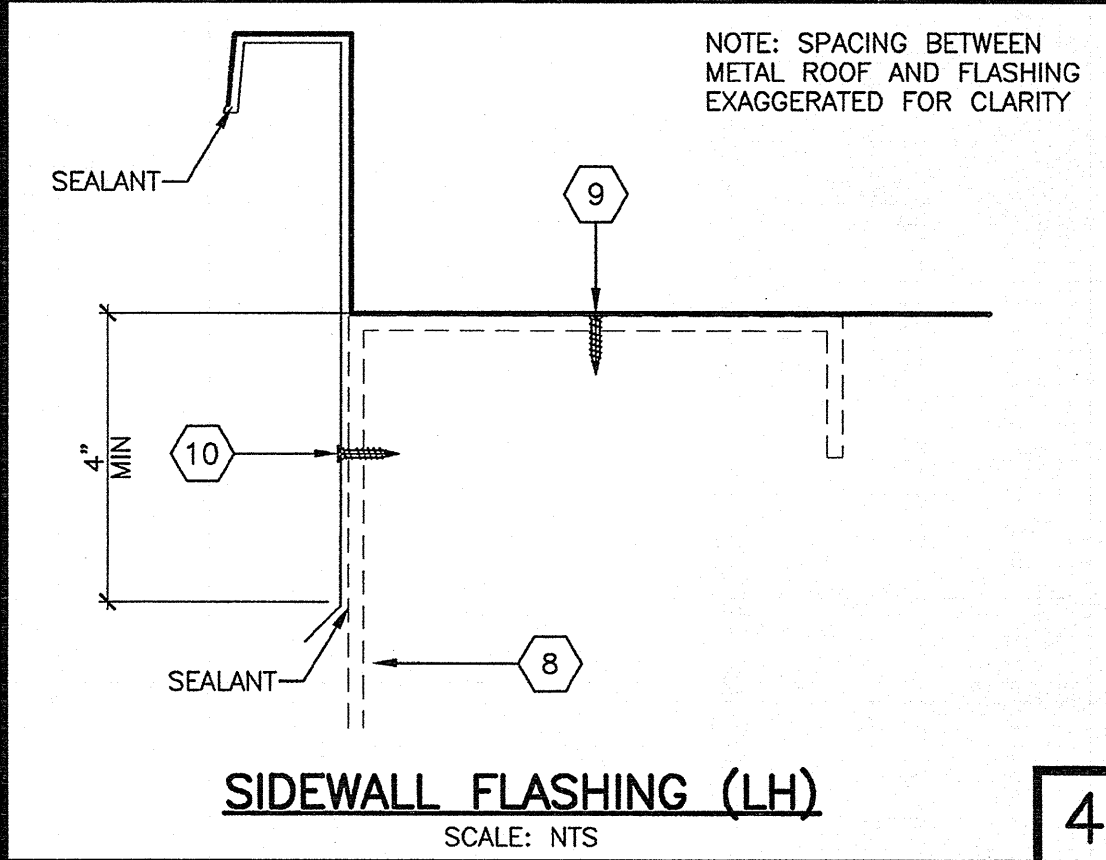
22 GAUGE ROOF ISOMETRIC

1



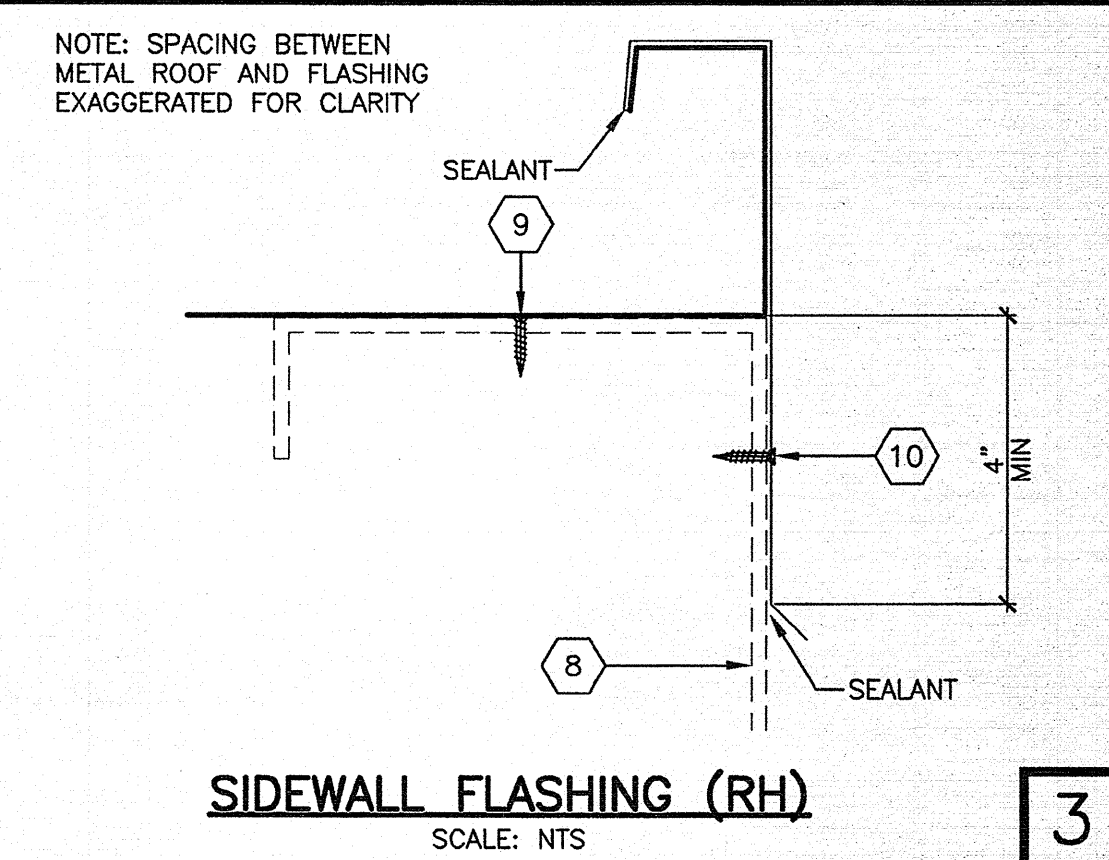
FLASHING AT OVERHANG
SCALE: NTS

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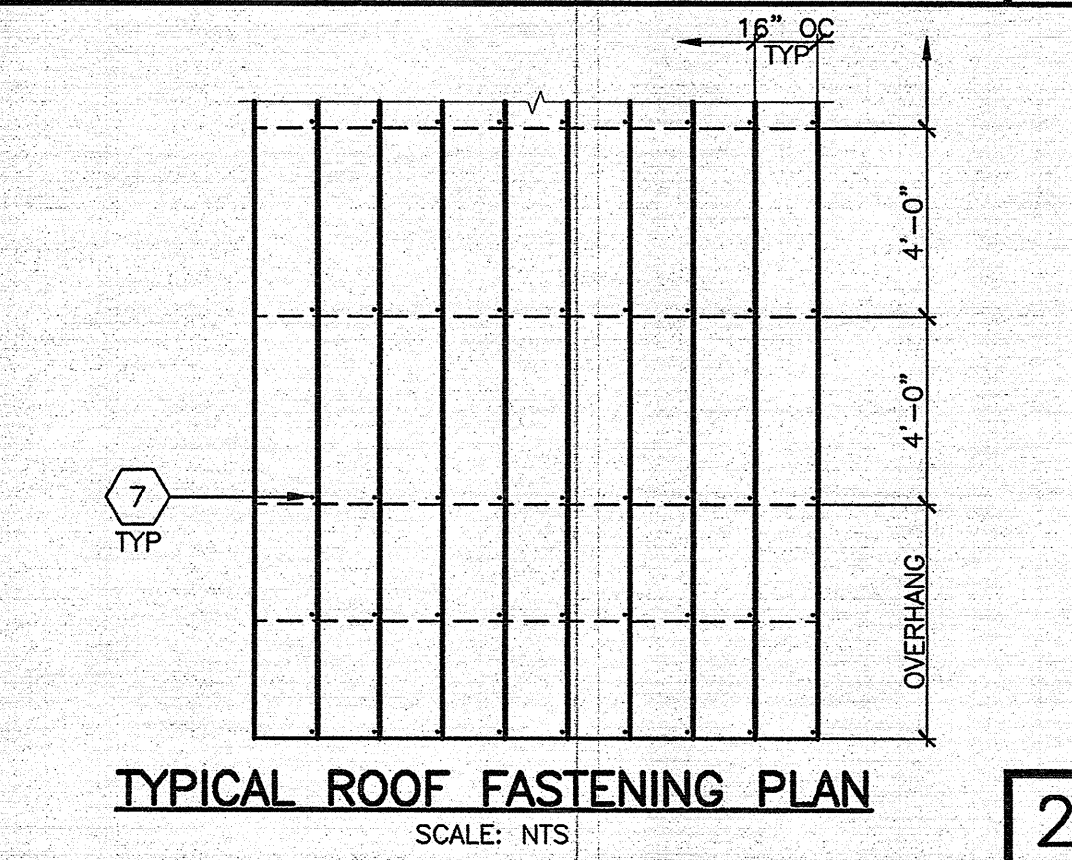
SIDEWALL FLASHING (LH)
SCALE: NTS

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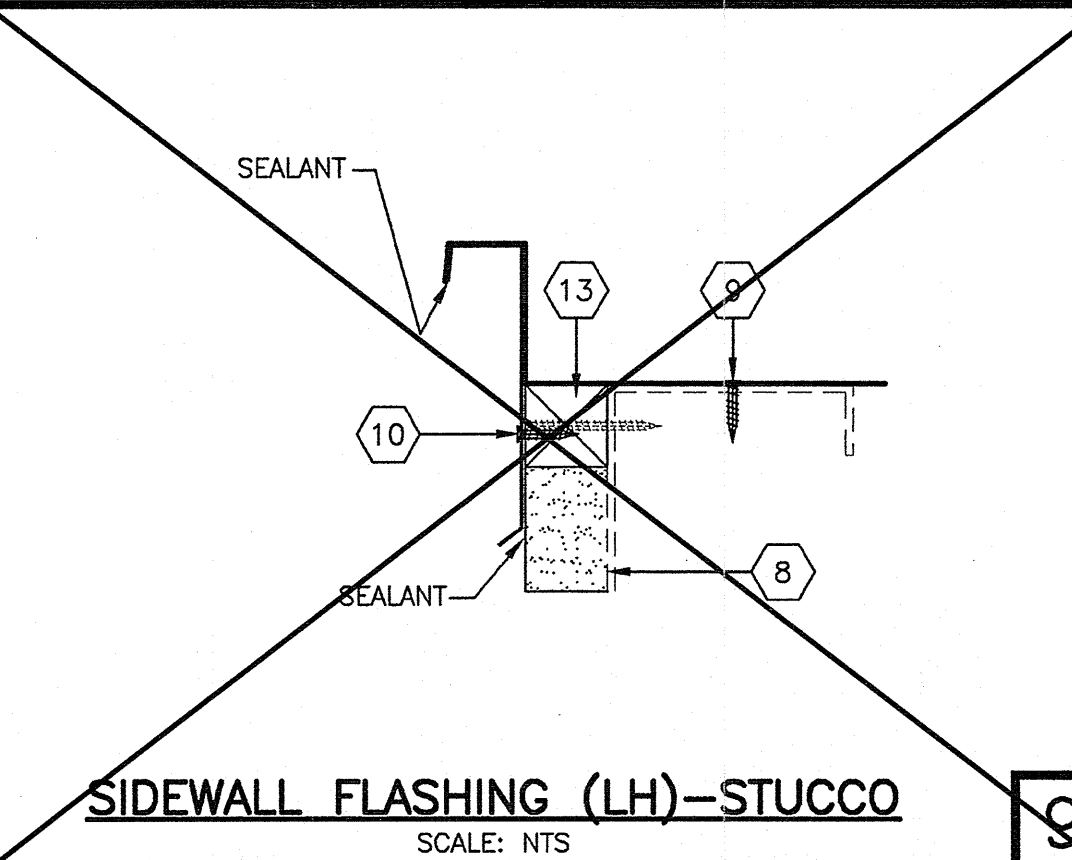
SIDEWALL FLASHING (RH)
SCALE: NTS

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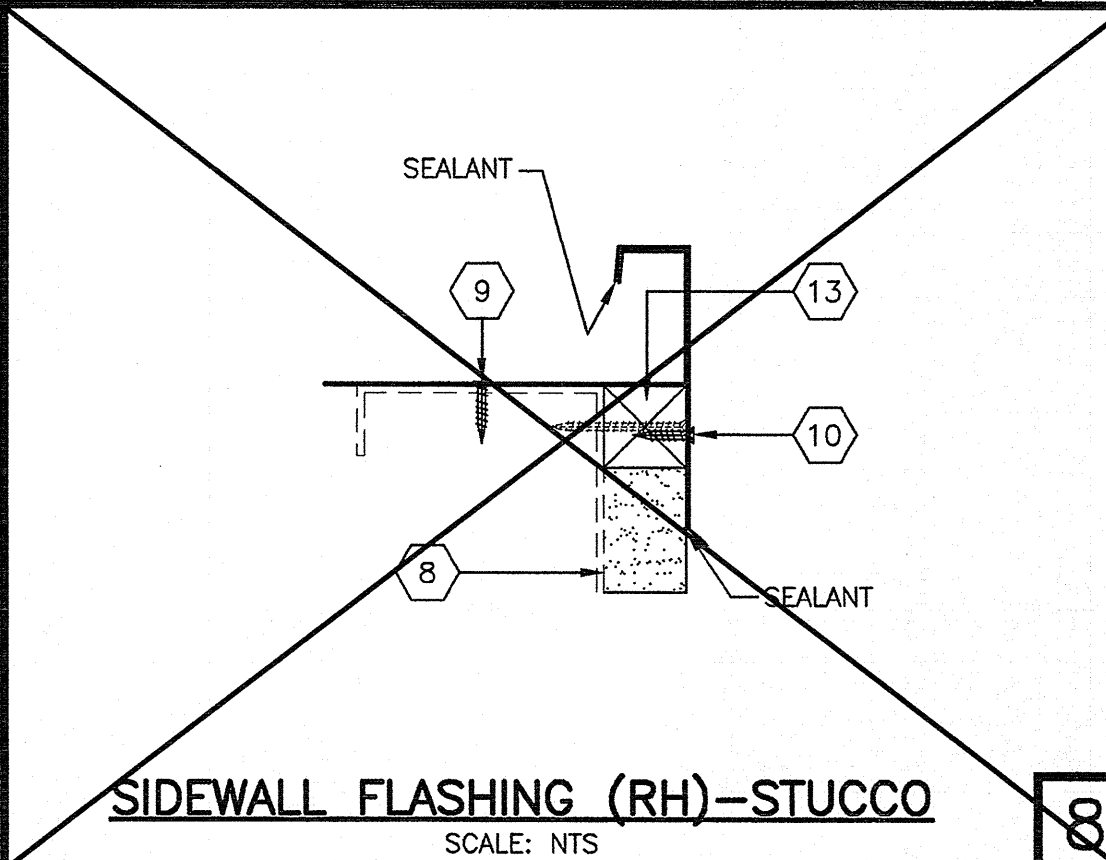
TYPICAL ROOF FASTENING PLAN
SCALE: NTS

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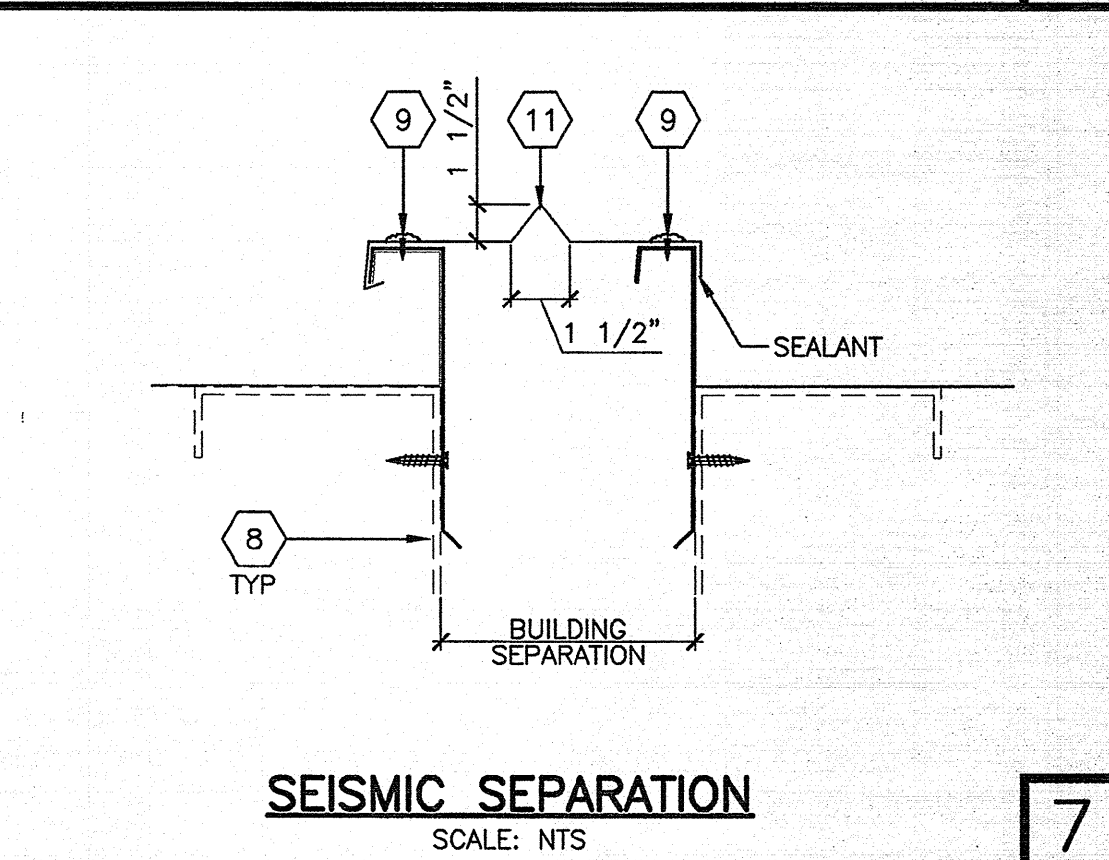
SIDEWALL FLASHING (LH)-STUCCO
SCALE: NTS

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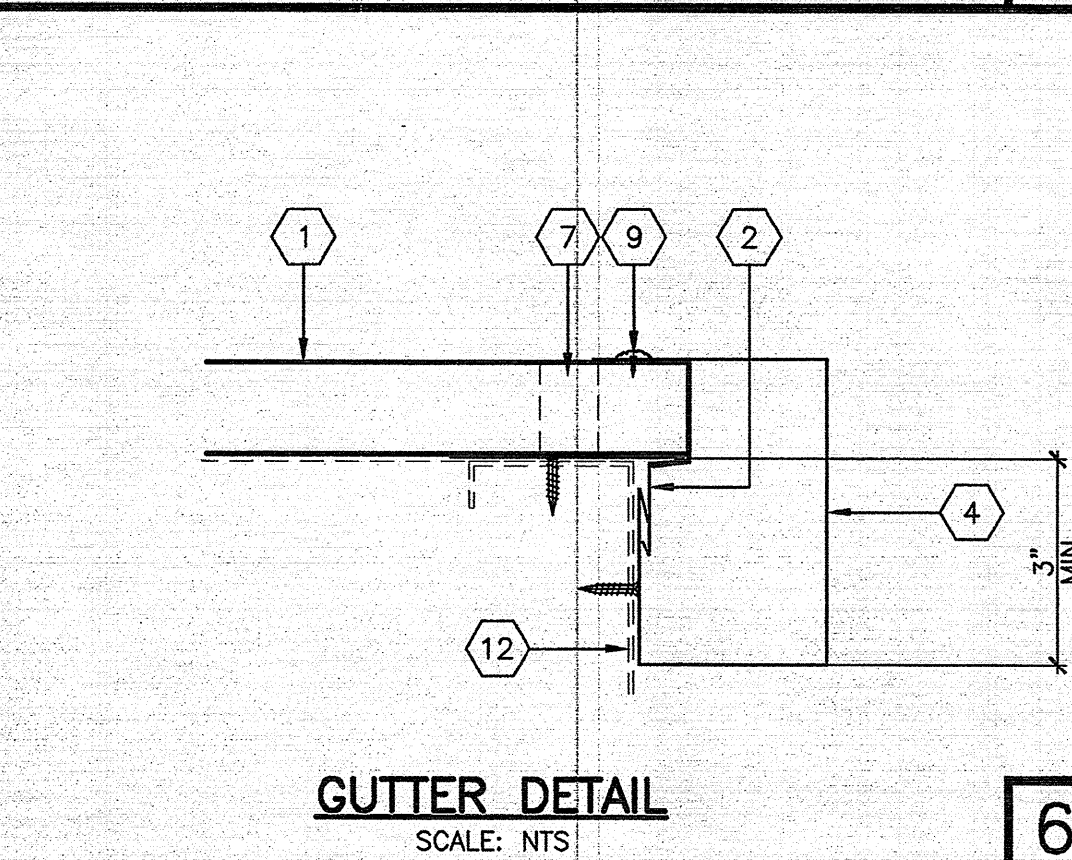
SIDEWALL FLASHING (RH)-STUCCO
SCALE: NTS

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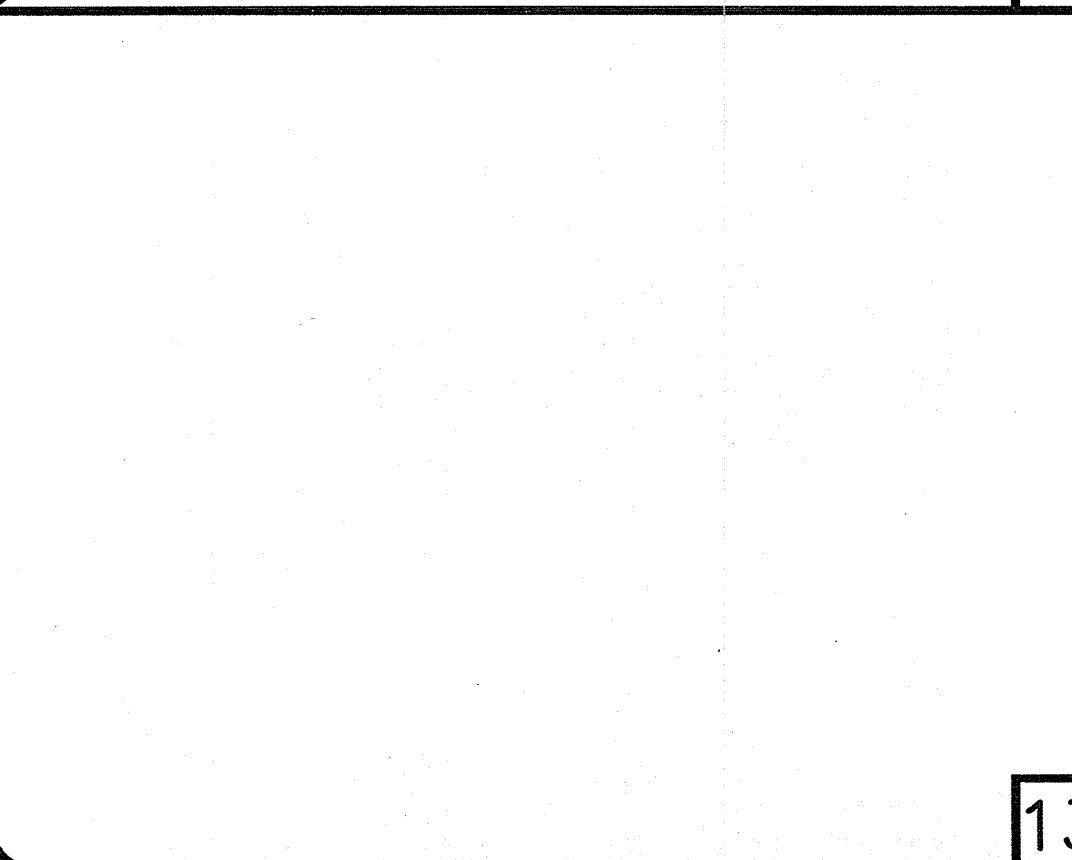
SEISMIC SEPARATION
SCALE: NTS

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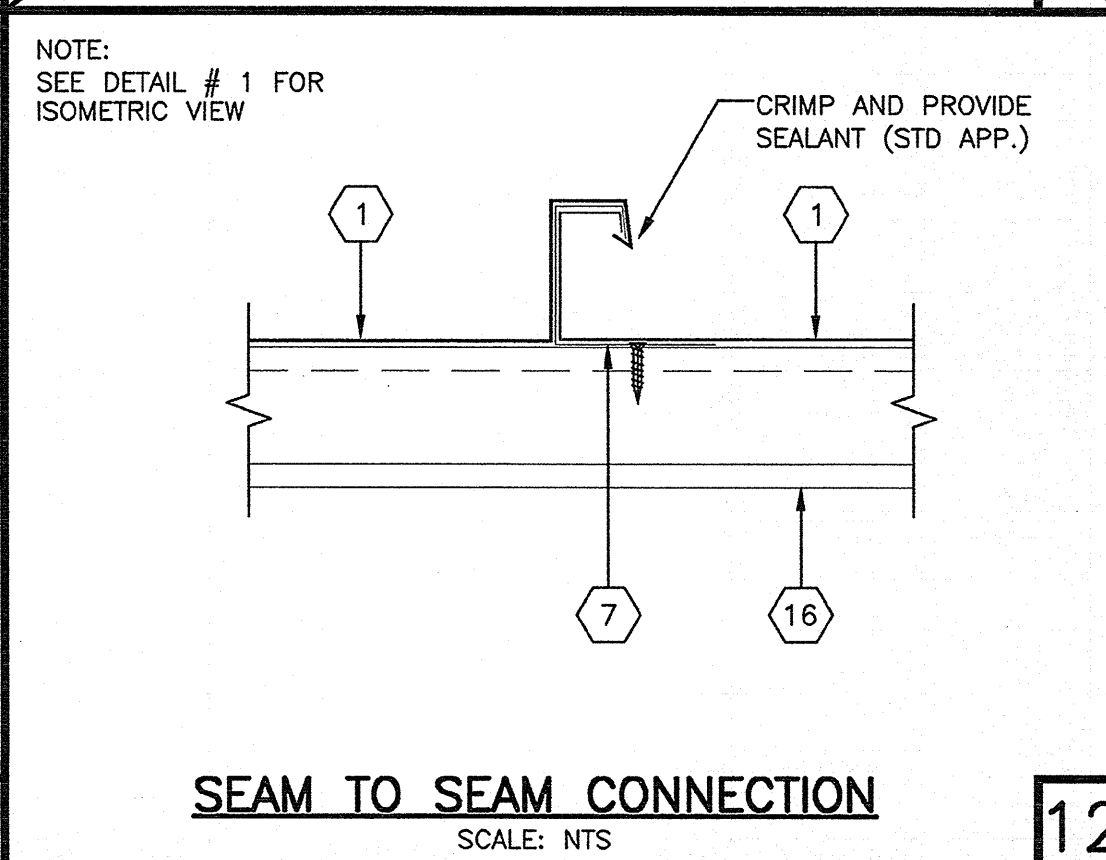
GUTTER DETAIL
SCALE: NTS

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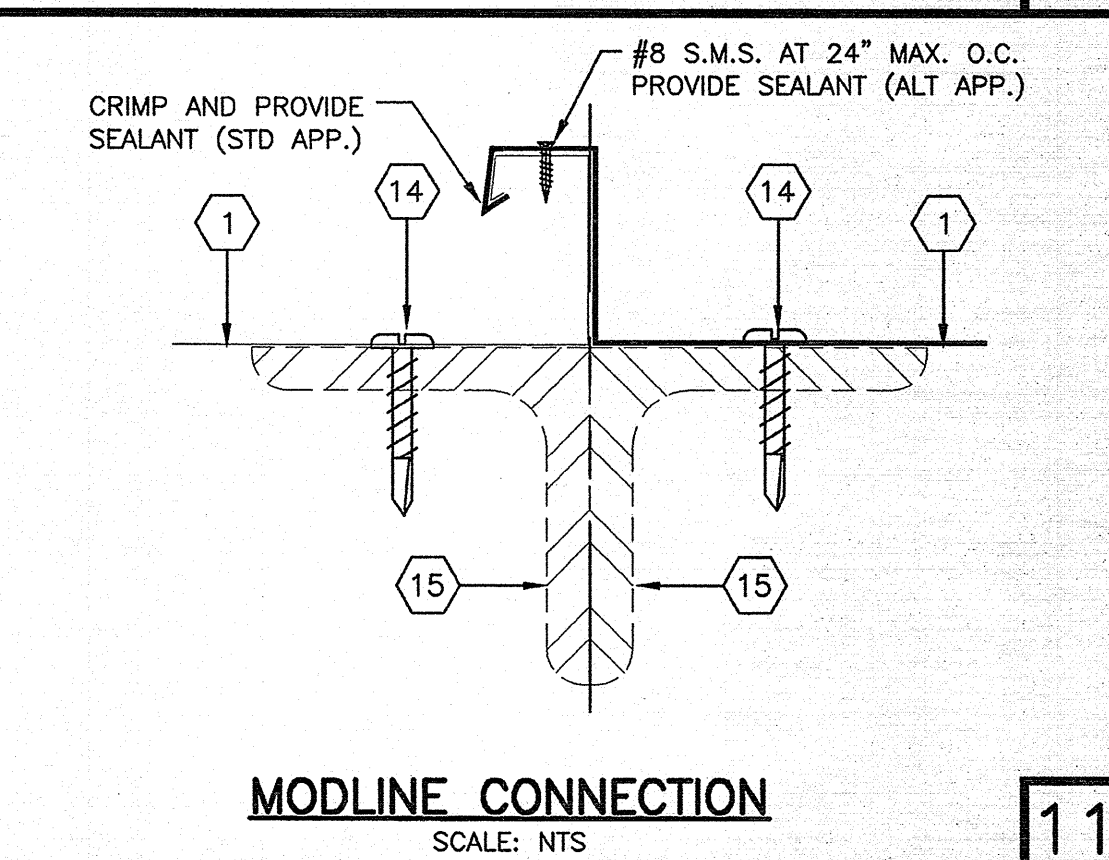
SEAM TO SEAM CONNECTION
SCALE: NTS

13



MODLINE CONNECTION
SCALE: NTS

12



GUTTER DETAIL (STUCCO)
SCALE: NTS

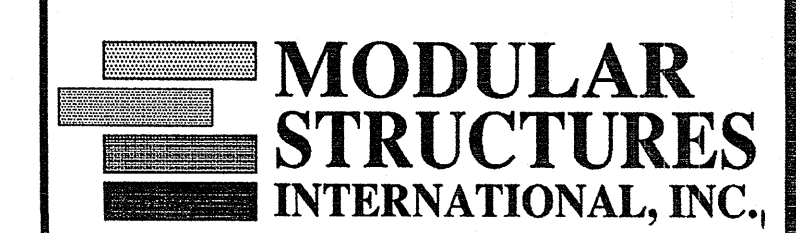
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KEY NOTES

- 22 GA STANDING SEAM GALVANIZED METAL ROOF
- 22 GA END FLASHING. ATTACH WITH #8 S.T.S. @ 24" O.C.
- 22 GA STARTER FLASHING. ATTACH WITH #8 S.T.S. @ 6" O.C.
- 26 GA GUTTER.
- GUTTER END CAP ATTACH WITH (2) #8 S.T.S. EACH SIDE
- SEALANT APPLIED TO FLASHING EDGE AND STANDING SEAM-#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A
- 22 GA HOLD DOWN CLIP. SECURE CLIP TO ROOF JOIST WITH (3) #8 S.T.S. SCREWS PER CLIP.
- ROOF BEAM/HEADER (SEE STRUCTURAL ROOF FRAMING PLANS)
- USE #8 S.T.S. AT 24" O.C. MAX. FOR MATERIAL THICKNESS UP TO 10 GA. COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A.
- 22 GA SIDE WALL FLASHING. ATTACH WITH #8 S.T.S. @ 24" O.C.
- METAL ROOF CAP BETWEEN ADJACENT BUILDINGS.
- ROOF OVERHANG MEMEBER (SEE STRUCTURAL ROOF FRAMING PLANS)
- 1X STUCCO STOP ATTACHED WITH #8 S.T.S. AT 36" O.C.
- USE #14 S.T.S. AT 24" O.C. MAX. ALONG MODLINE TRUSS. COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A.
- ROOF TRUSS MEMBER (SEE ROOF TRUSS DETAIL SHEET)
- ROOF PURLIN MEMBER (SEE STRUCTURAL ROOF FRAMING PLANS)

GENERAL NOTES

- SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION



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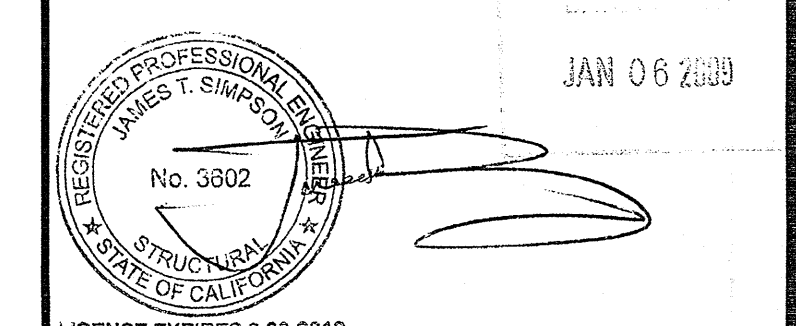
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
ROOF DETAILS
22 GAUGE METAL

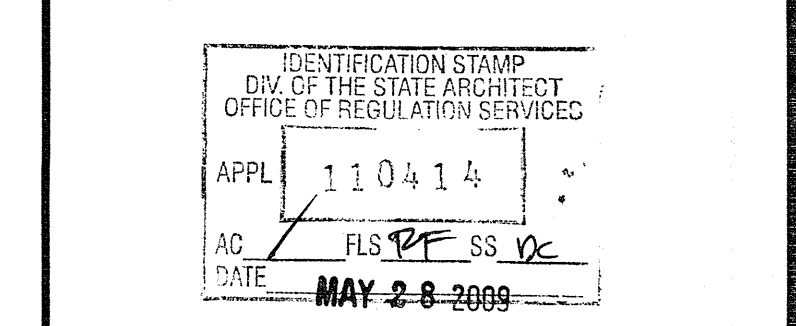
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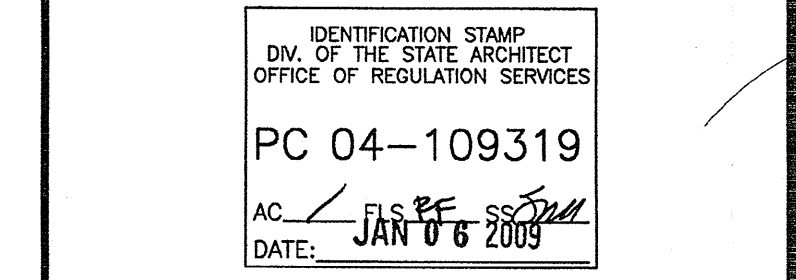
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

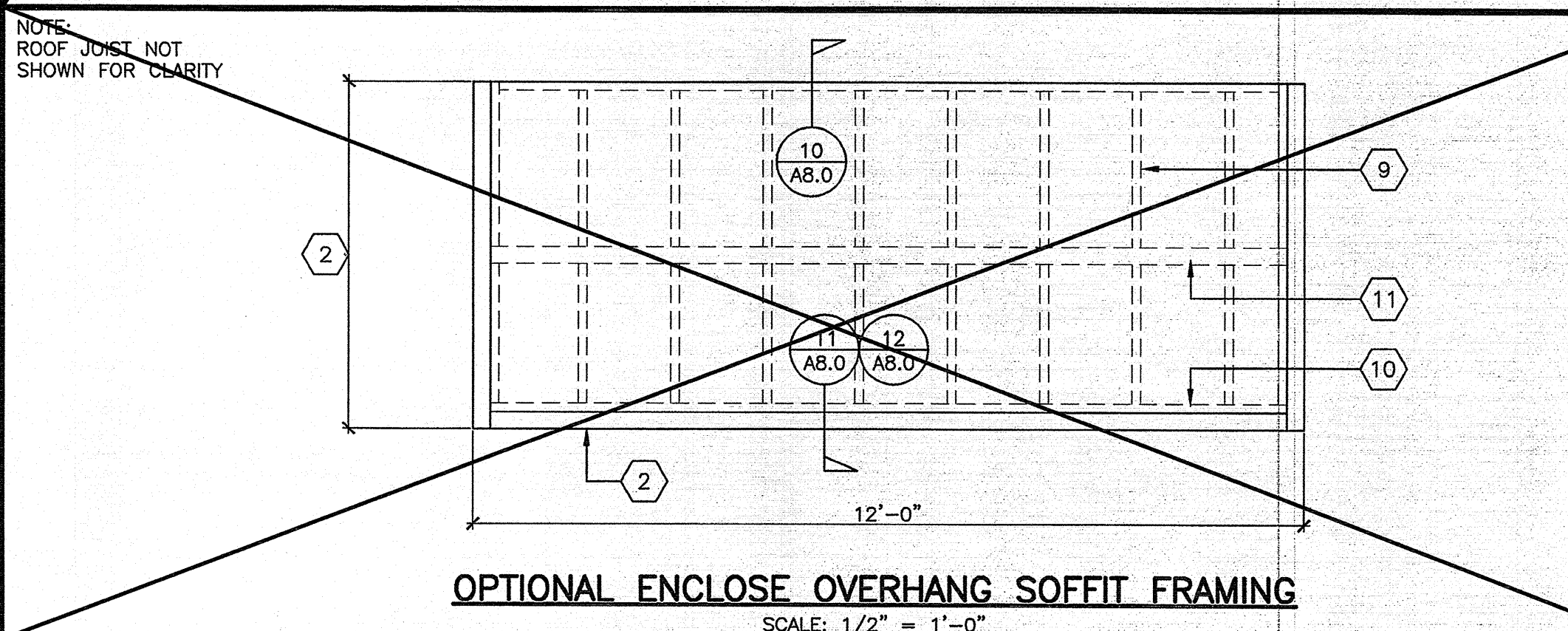
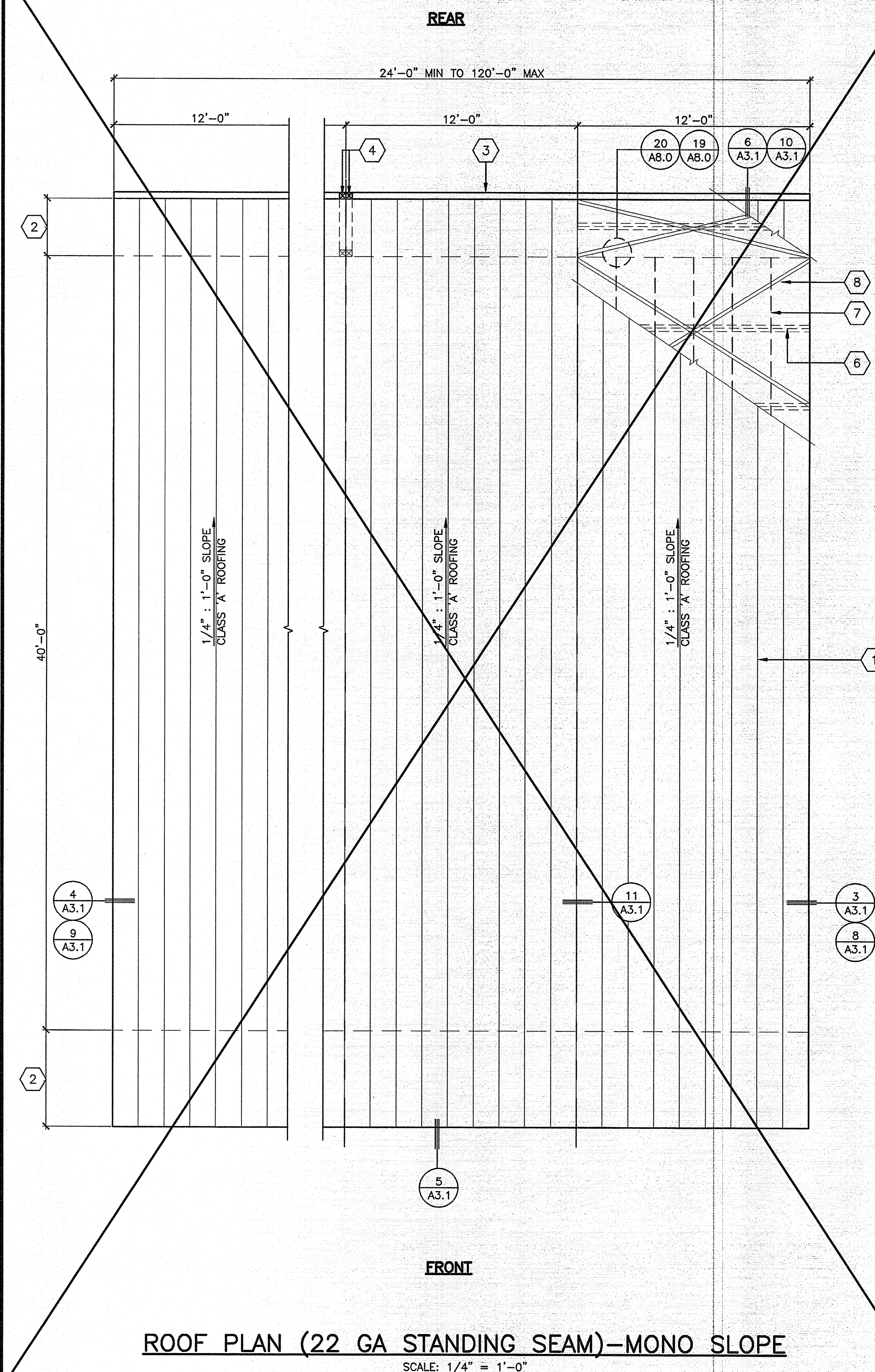
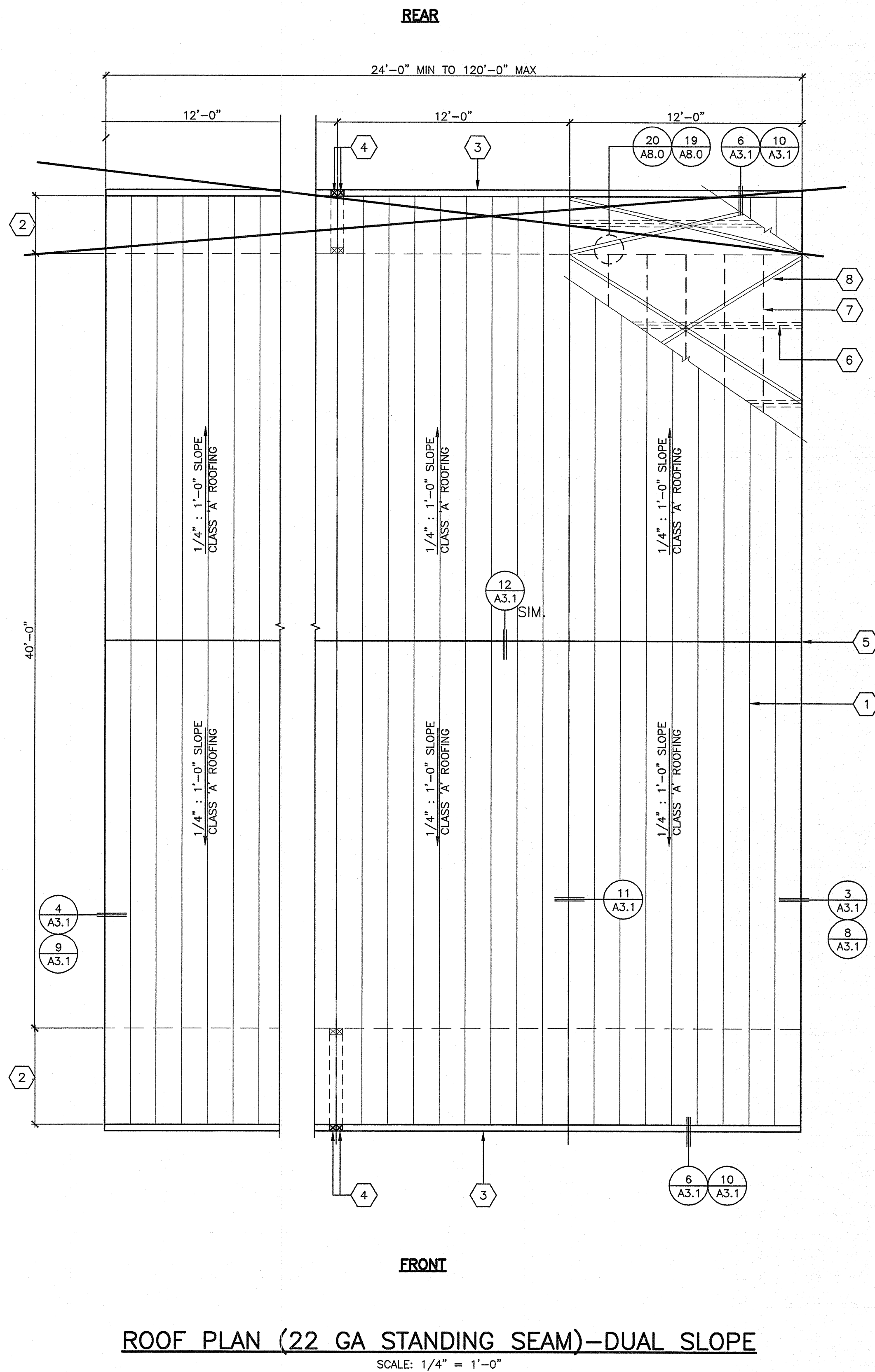


REVISIONS

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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09
SHEET NUMBER 1

A3.1



KEY NOTES

- STEEL ROOF DECK: 22 GA ROLL FORMED STANDING SEAM. SEE DETAIL #1 & 2 SHEET A3.1 FOR INSTALLATION.
- OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH)
- GUTTER (SEE ROOF DETAILS SHEET FOR MORE INFORMATION)
- DOWNSPOUT SEE DETAIL #17/AB.0 FOR MORE INFORMATION. SEE EXTERIOR SHEET FOR EXACT LOCATION. FOR BUILDINGS GREATER THAN 60'-0", SEE SHEET A0.5.
- RIDGE LINE
- JOIST (SEE STRUCTURAL ROOF FRAMING PLANS)
- 12 GA. WIRE ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" O.C. MAX.
- METAL STRAP FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLANS)
- SOFFIT STUDS.
- SOFFIT TRACK.
- SOFFIT MID-SPAN TRACK SECURED FLAT TO FRAMING WITH #8 S.T.S. PER STUD SPACING. REQUIRED FOR STUD SPAN GREATER THAN 48" LONG.

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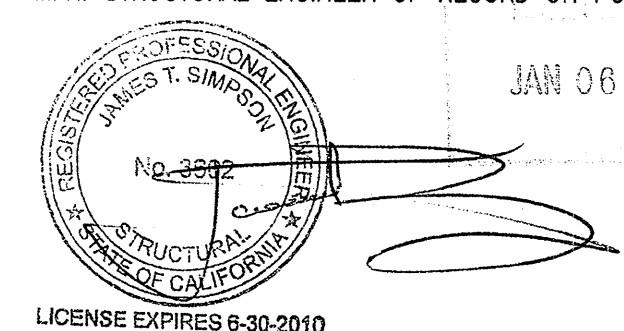
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
**ROOF PLAN
MONO & DUAL SLOPE
22 GAUGE METAL**

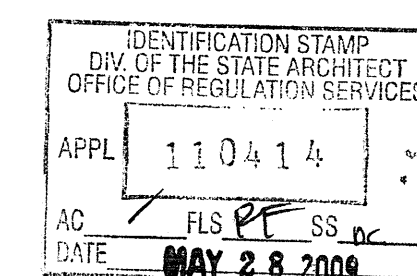
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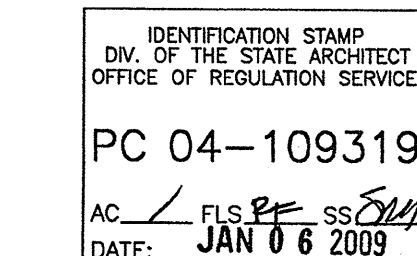
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

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PROJECT NO.: 09-****

DRAWN BY: MA

SCALE: AS NOTED

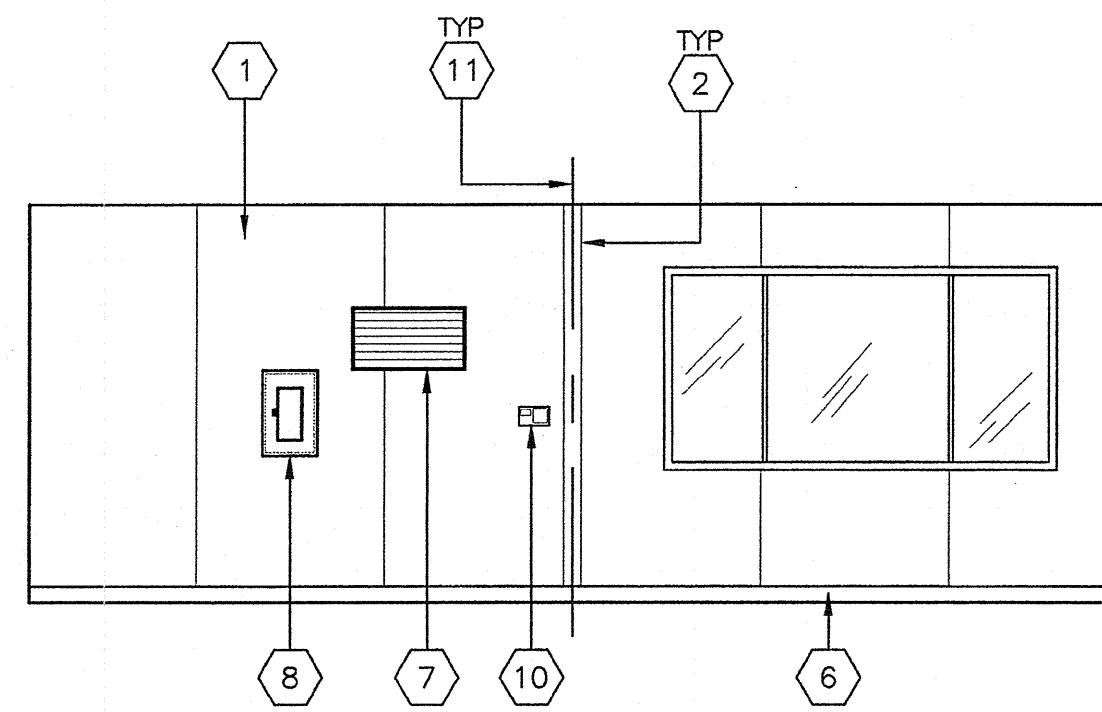
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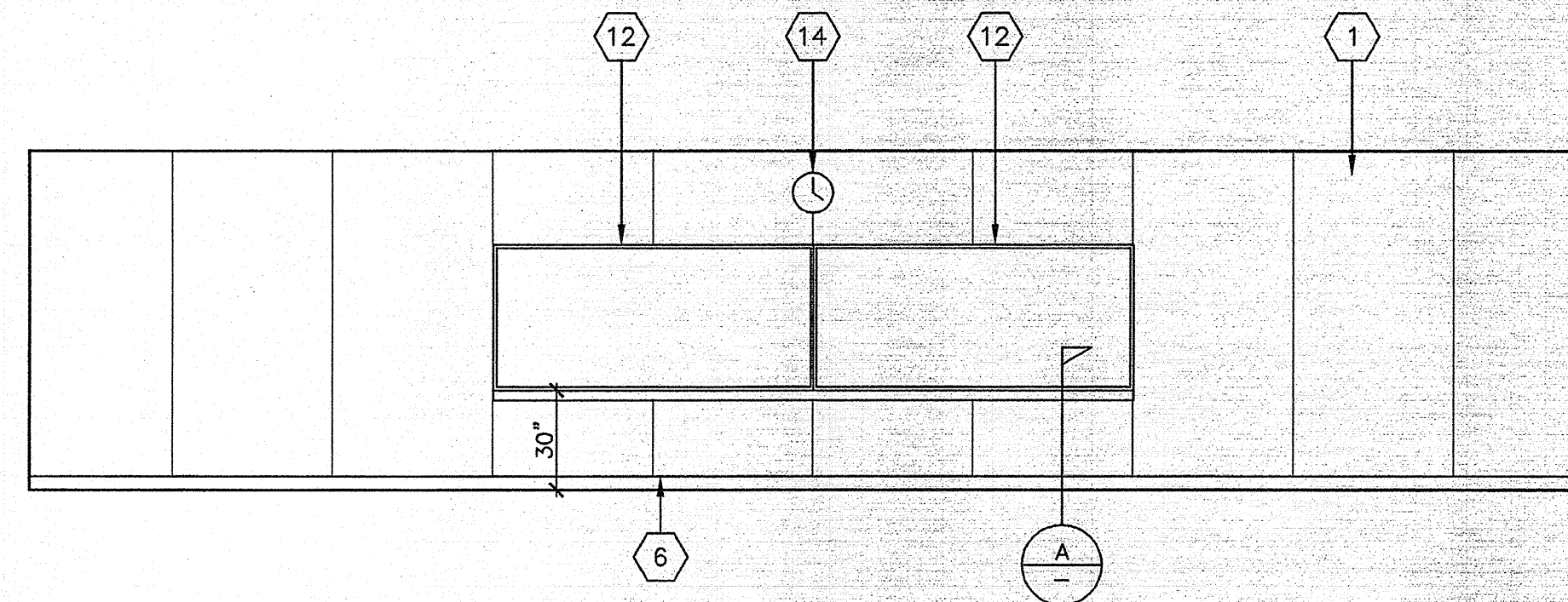
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GENERAL NOTES

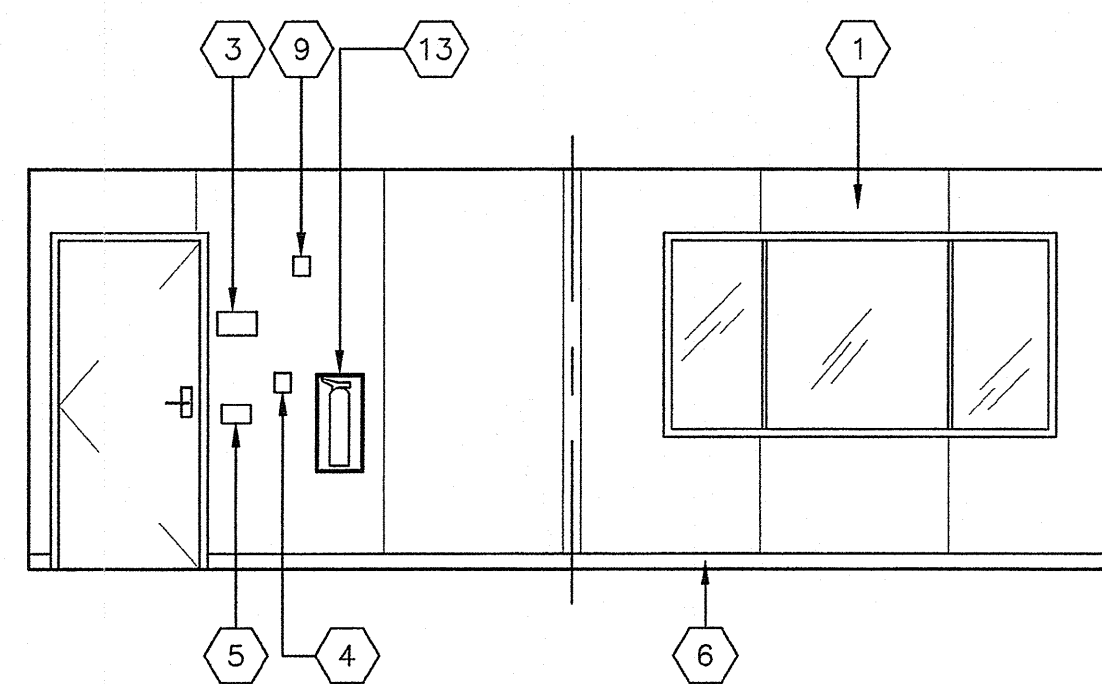
- BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 1505.1 CBC, CLASS 'B' MIN, PER CBC 1505.1.2
- SEE MECHANICAL PLAN FOR ROOF TOP AC UNIT LOCATIONS.
- SEE SHEET METAL AND FLASHING DETAILS SHEET AB.2 FOR MORE INFORMATION.



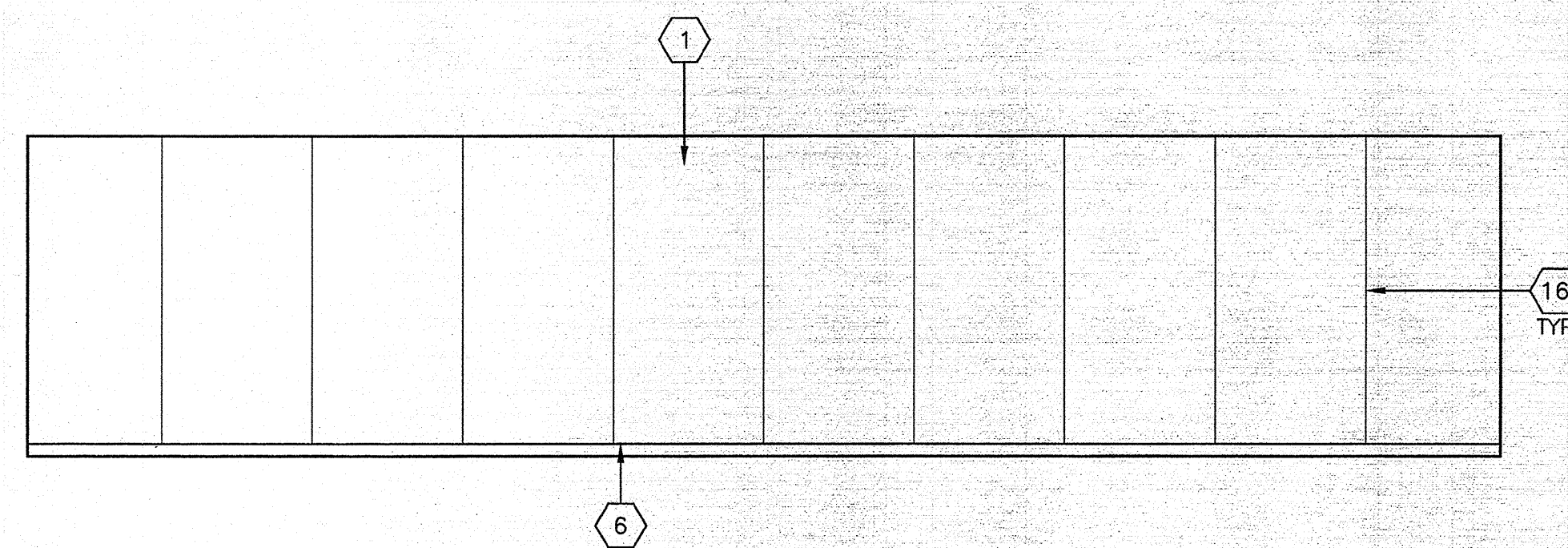
ELEVATION 1



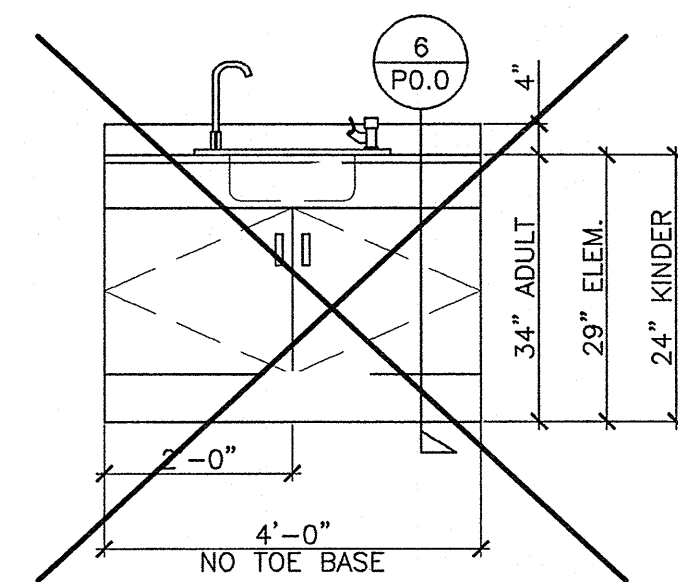
ELEVATION 2



ELEVATION 3

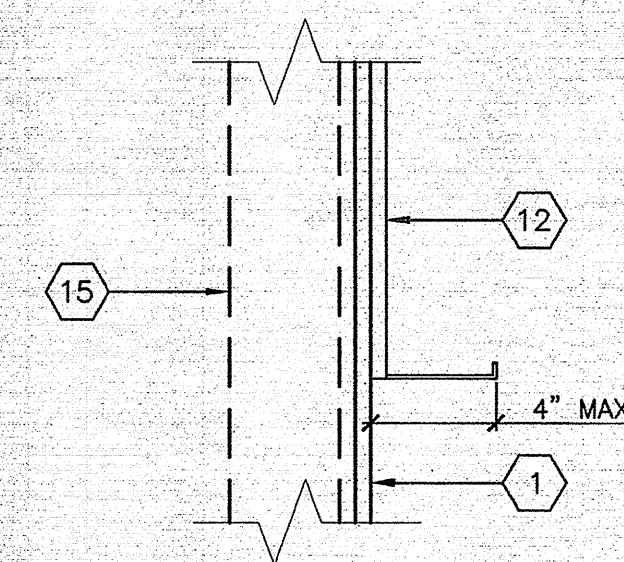


ELEVATION 4



(OPTIONAL) CLASSROOM SINK ELEVATION
SCALE: 1/2" = 1'-0"

NOTE:
1. SEE SHEET A8.1 FOR CASEWORK BLOCKING & WALL/FLOOR ATTACHMENTS.
2. SEE PLUMBING SCHEDULE ON SHT P.O.O. FOR SINK DEPTH.
3. SEE SHEET P1.0 FOR LOCATION.



SECTION AT MARKER BOARD
SCALE: 1/2" = 1'-0"

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

KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE TYPICAL (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. HORN/STROBE (SEE ELECTRICAL PLAN)
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD, EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
14. 12" DIA ELECTRIC CLOCK (SEE ELECTRICAL PLAN)
15. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
16. INTERIOR FINISH SEAM

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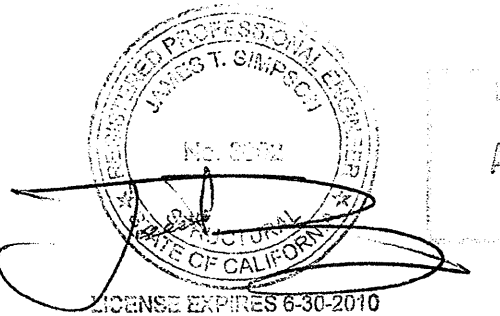
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

**INTERIOR ELEVATIONS
24'X40'**

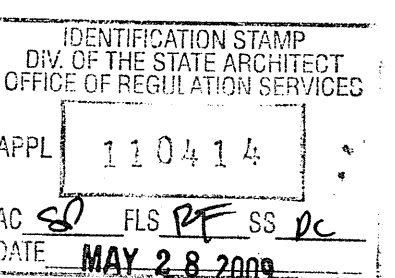
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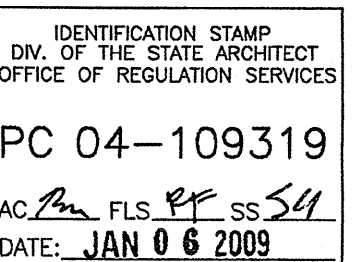
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

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PROJECT NO.: 09-****

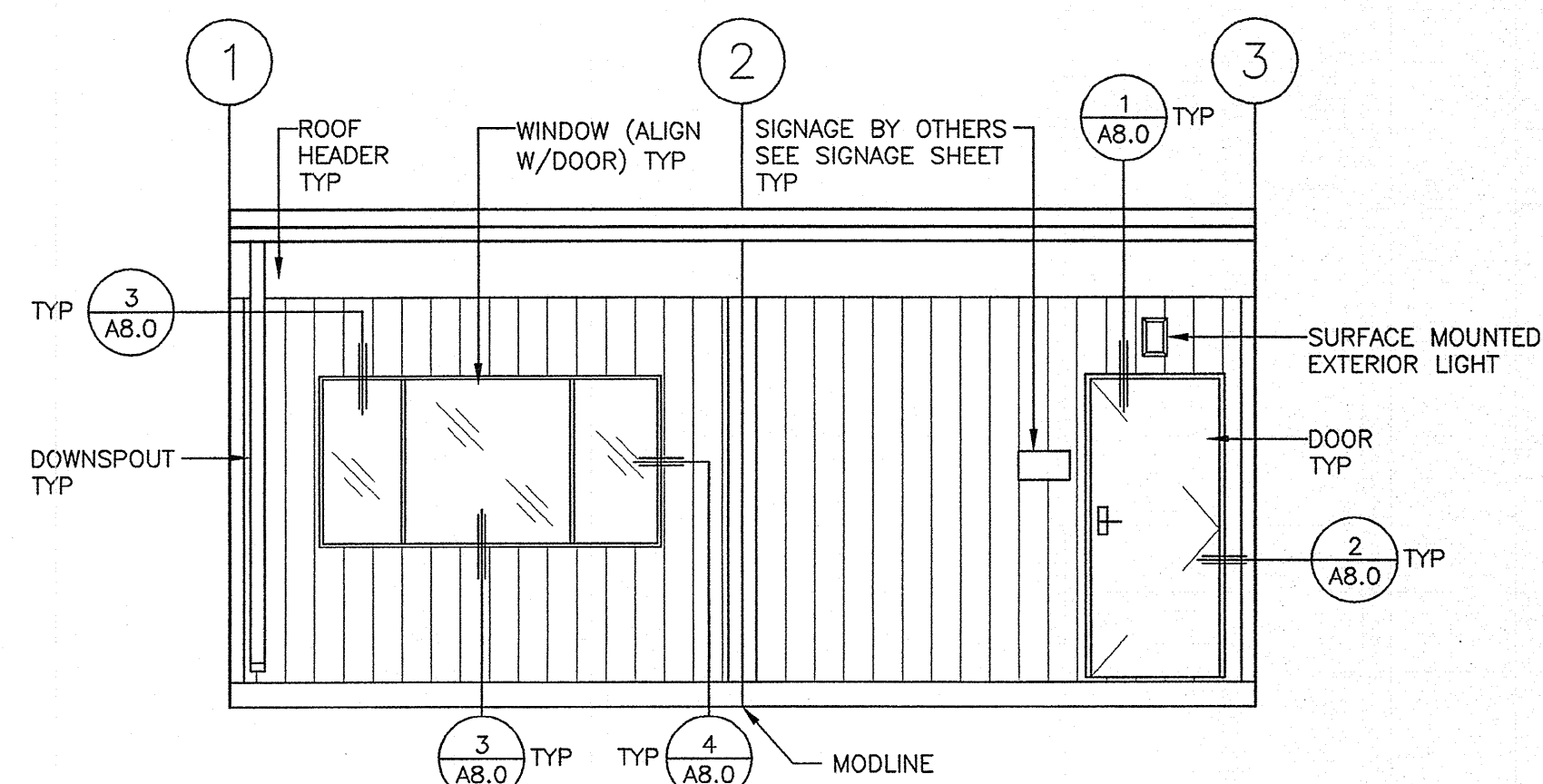
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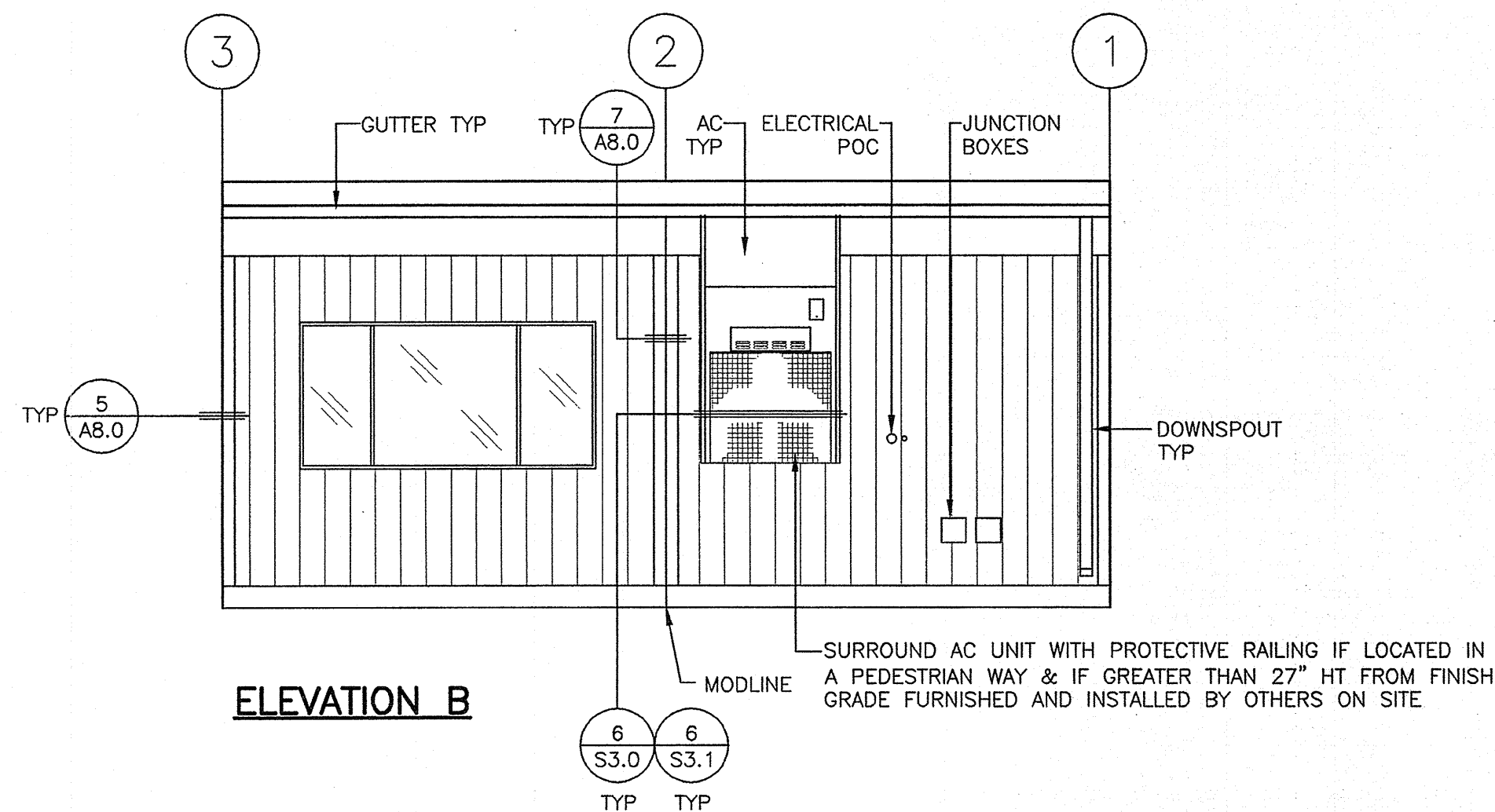
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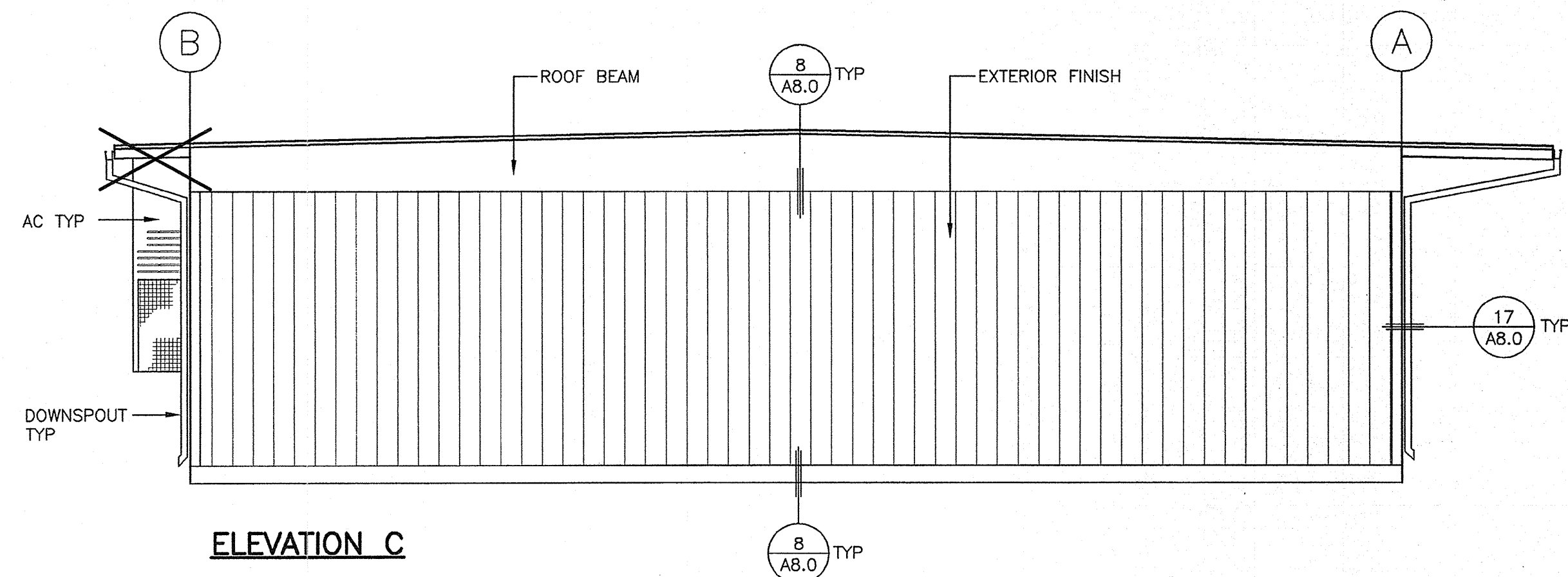
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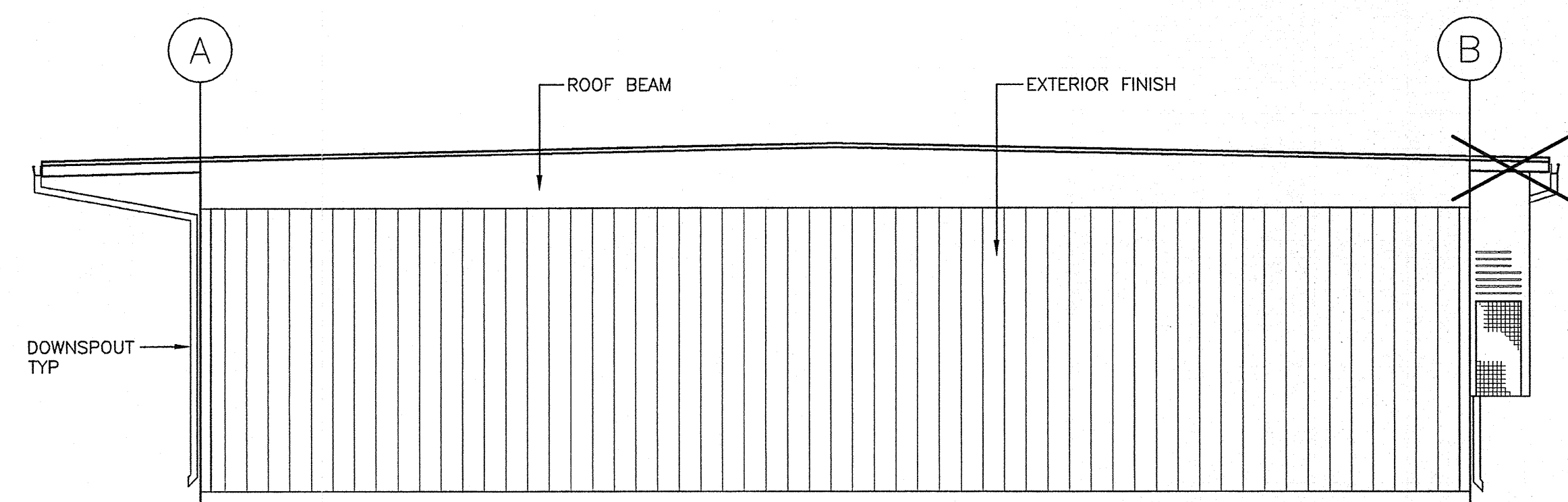
ELEVATION A



ELEVATION B



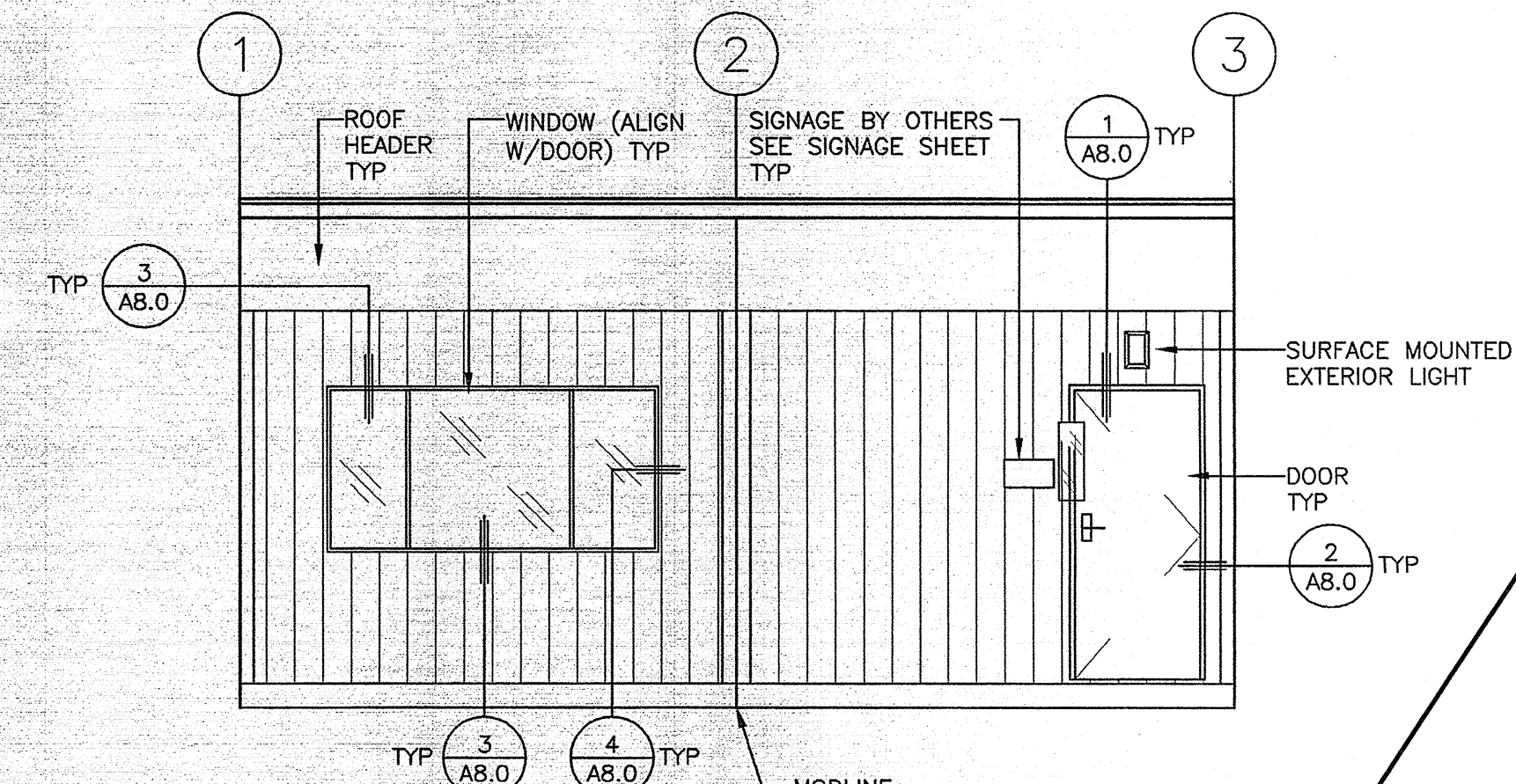
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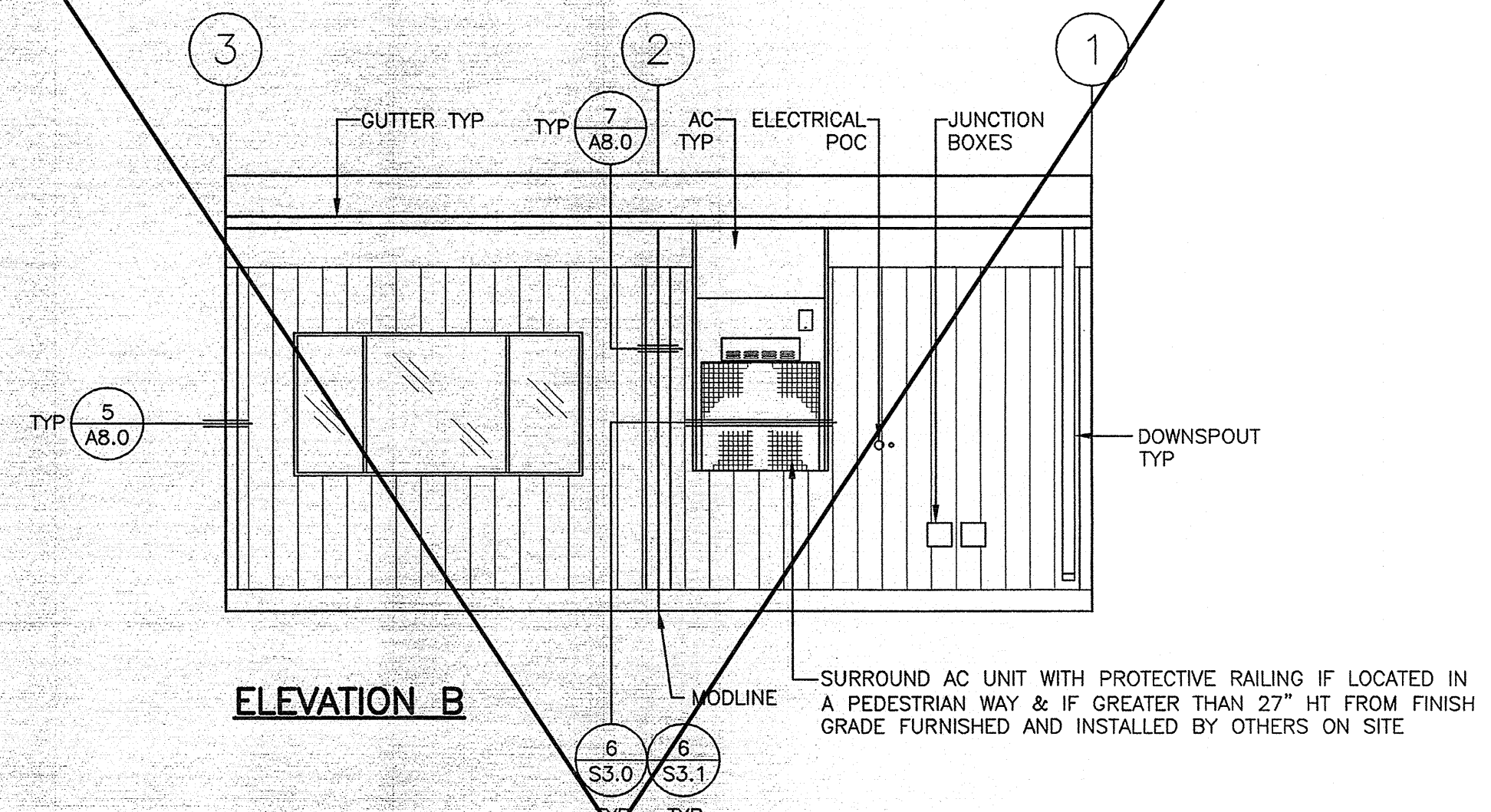
ELEVATION D

EXTERIOR ELEVATIONS (DUAL SLOPE)

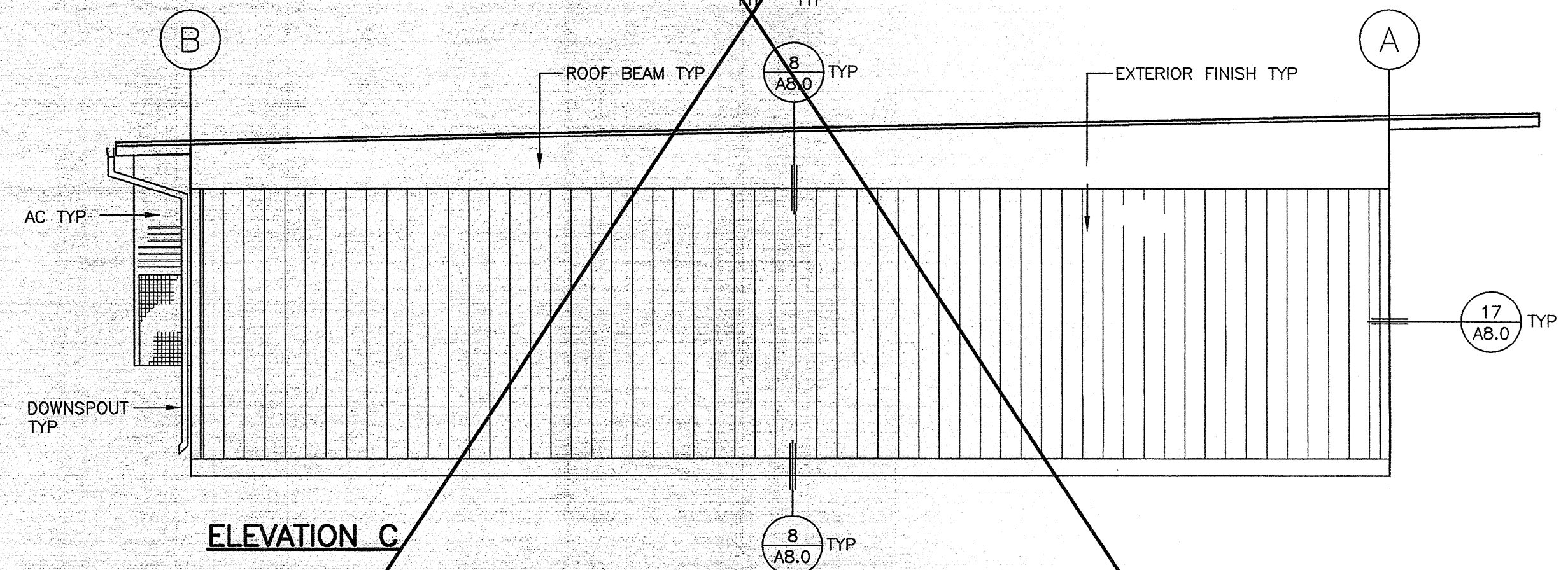
SCALE: 1/4" = 1'-0"
• RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)
• SEE SHEET A8.0 FOR ARCHITECTURAL DETAILS



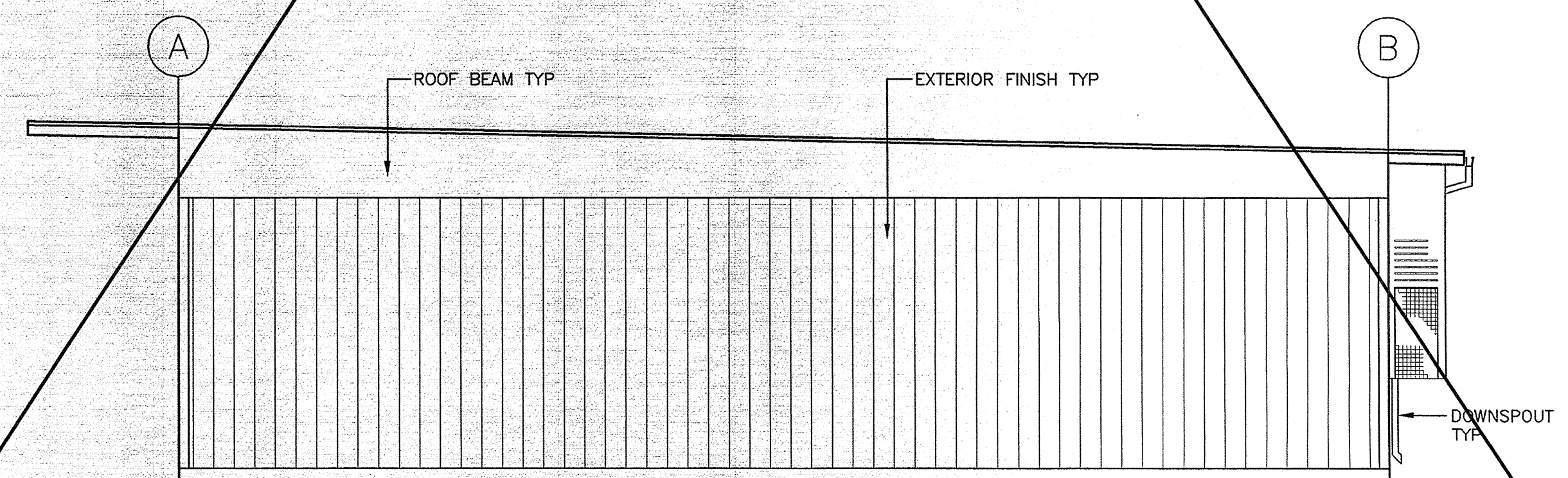
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ELEVATION B



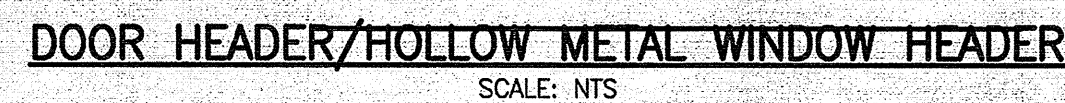
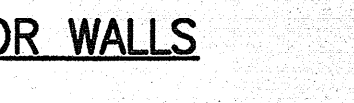
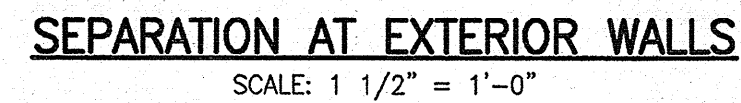
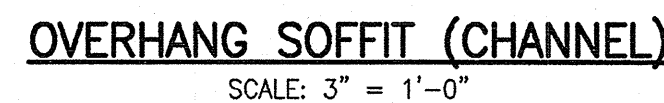
ELEVATION C



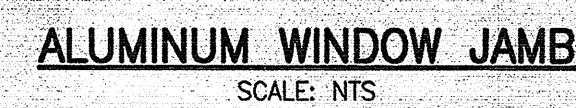
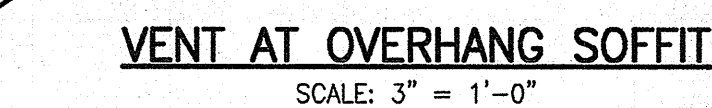
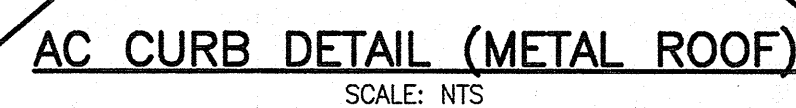
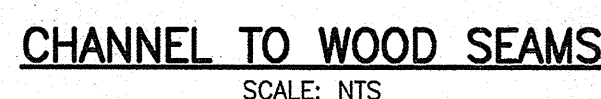
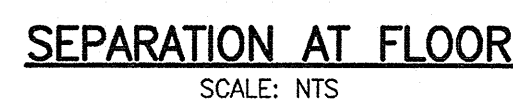
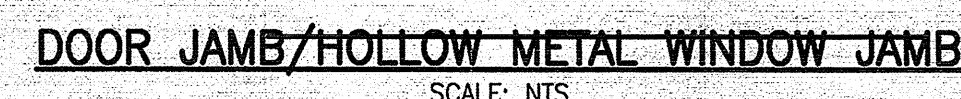
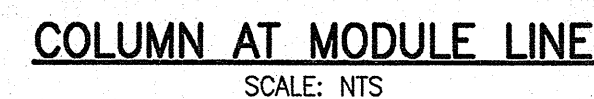
ELEVATION D

EXTERIOR ELEVATIONS (MONO SLOPE)

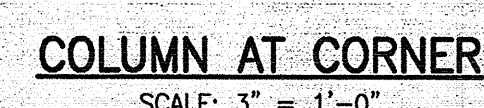
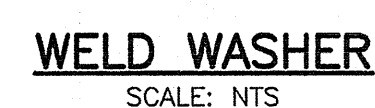
SCALE: 1/4" = 1'-0"
• RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)
• SEE SHEET A8.0 FOR ARCHITECTURAL DETAILS

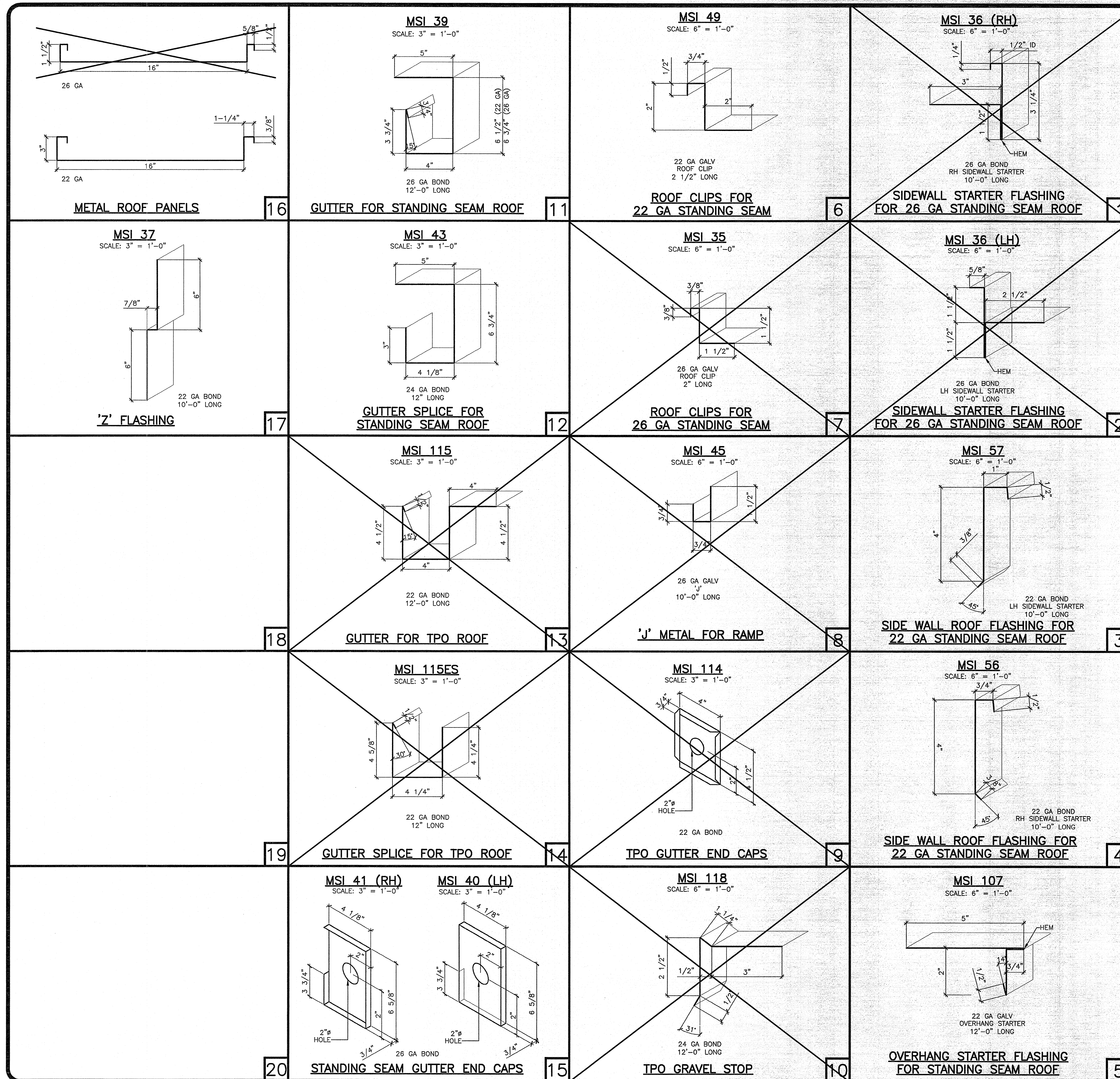


1. EXTERIOR FINISH (SEE CONSTRUCTION MATERIALS SCHEDULE)
2. INTERIOR FINISH (SEE FINISH SCHEDULE)
3. OPTIONAL TRIM - 5/4 ENGINEERED WOOD TRIM NAILED TO WALL @ 24" OC MAX (SEE NAILING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
4. PAINTABLE SEALANT USE ALSO AT LOCATIONS THAT NEED A WATER TIGHT SEAL WHERE EXTERIOR BUILDING MATERIALS MEET
5. J-MOLD
6. COLUMN
7. WALL FRAMING - WOOD SHOWN AS EXAMPLE ONLY (SEE FRAMING SHEET)
8. DOOR/WINDOW FRAME
9. DOOR (SEE DOOR SCHEDULE)
10. WINDOW (SEE WINDOW SCHEDULE)
11. BUILDING PAPER
12. SELF FURRING METAL LATH
13. 26 GA GALVANIZED SEISMIC FLASHING
14. CONTROL JOINT
15. 4"Ø VENT LOCATED 10" FROM OVERHANG PERIMETER AT EACH 12"--0" WIDE MODULE OVERHANG
16. 4x BLOCK ATTACHED TO OVERHANG MEMBER WITH #10 STS @ 24" OC OR 0.145" 'HILTI' SHOT PIN AT 24" OC (ICC REPORT #ESR-2269)
17. C-3.5" X 20 GA METAL STUDS @ 16" OC ATTACH STUD TO TRACK WITH #8 SMS AT EACH FLANGE
18. C-3.5" X 20 GA METAL TRACK TO ROOF HEADER WITH (2) #8 SMS AT 12" OC
19. ROOF HEADER/BREAM
20. OVERHANG MEMBER (STRUCTURAL ROOF FRAMING PLAN)
21. PLYWOOD FLOOR (SEE STRUCTURAL FLOOR FRAMING PLAN)
22. FLOOR SYSTEM (SEE STRUCTURAL FLOOR FRAMING PLAN)
23. #8 SELF TAPPING SHEET METAL SCREW @ 24" OC



1. EXTERIOR PLYWOOD ATTACHMENT TO STUDS WITH CORROSION RESISTANT SCREWS (SEE WALL FRAMING ELEVATION SHEET FOR ATTACHMENT INFORMATION)
2. (ALTERNATE EXT WALL FINISH) 7/8" STUCCO FINISH OVER SELF-FURRING LATH OVER FELT PAPER OVER CD-X PLYWOOD SHEATING SEE SHEET AO.2 FOR FELT PAPER, SELF-FURRING LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #10 X 3/4" WAFERHEAD STSMS AT 6" EN & 12" FN
3. (STANDARD EXT WALL FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET AO.2 FOR INFORMATION SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT
4. (STANDARD SOFFIT FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET AO.2 FOR INFORMATION SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT (SIMILAR ATTACHMENT)
5. (ALTERNATE SOFFIT FINISH) 7/8" STUCCO FINISH OVER 3/8" RIB LATH OVER FELT PAPER OVER CD-X PLYWOOD SHEATING SEE SHEET AO.2 FOR FELT PAPER, RIB LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #8-18 X 3/8" STS (MIN 7/16" HEAD DIA) WITH 1" OD X 1/4" ID WASHERS AT 7" EN & 7" FN
6. SOFFIT NOTE: THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE TO BE VENTILATED





GENERAL NOTES

1. USE 1/8" BEND RADIUS AT EACH BEND

ABBREVIATIONS

BOND: BONDERIZED
GA: GAUGE
GALV: GALVANIZED
ID: INSIDE DIMENSION
LH: LEFT HAND
MAX: MAXIMUM
MIN: MINIMUM
NTS: NOT TO SCALE
RH: RIGHT HAND
TPO: THERMOPLASTIC POLYOLEFINS

PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

SHEET METAL
AND
FLASHING DETAILS

MFR. STRUCTURAL-ENGINEER OF RECORD ON PC

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 110414
AC FLS PF SS
DATE MAY 28 2009

PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS
REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-109319
AC FLS SS
DATE: JAN 06 2009

REVISIONS

PROJECT NO.: 09-****

DRAWN BY: MA

SCALE: AS NOTED

DATE: 05-22-09

SHEET NUMBER

A8.2

MODULAR STRUCTURES INTERNATIONAL, INC.

920 CITRUS AVENUE, RIVERSIDE, CALIFORNIA 92507
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PROJECT NAME:

MSI STOCKPILE

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AND
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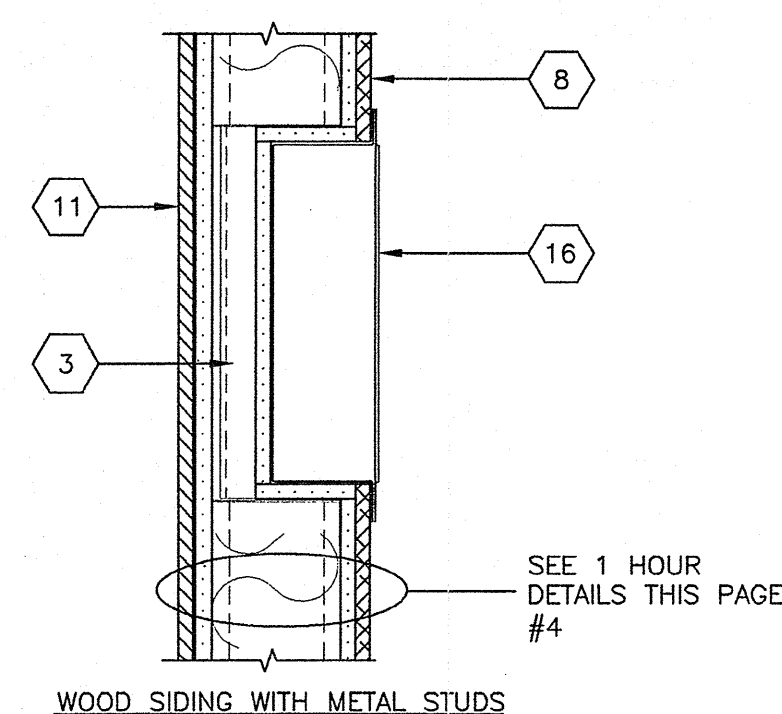
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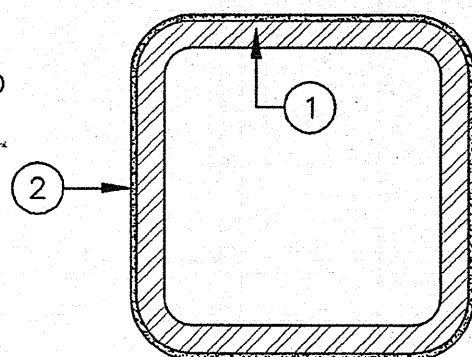
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SHEET NUMBER

A8.2



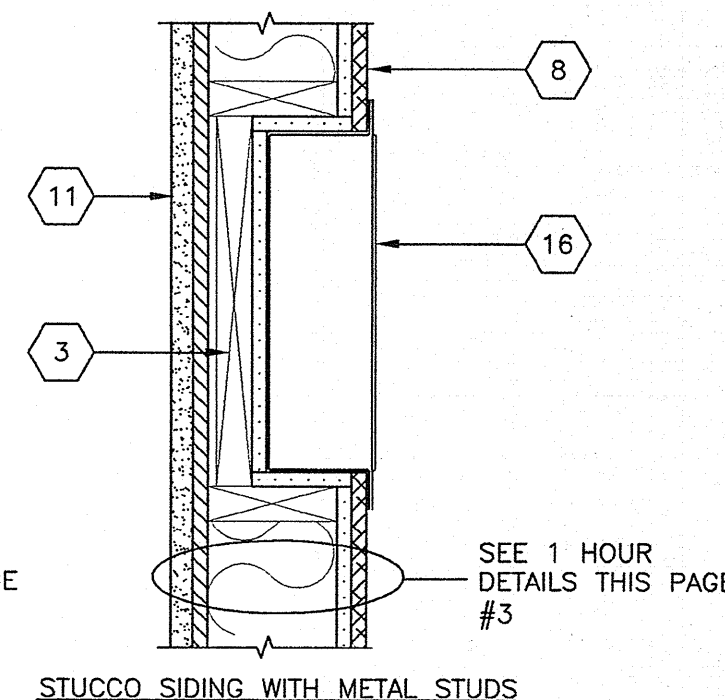
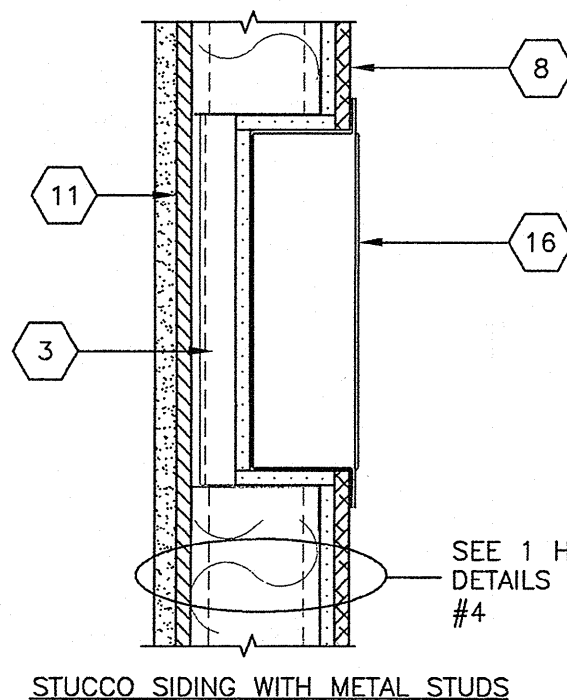
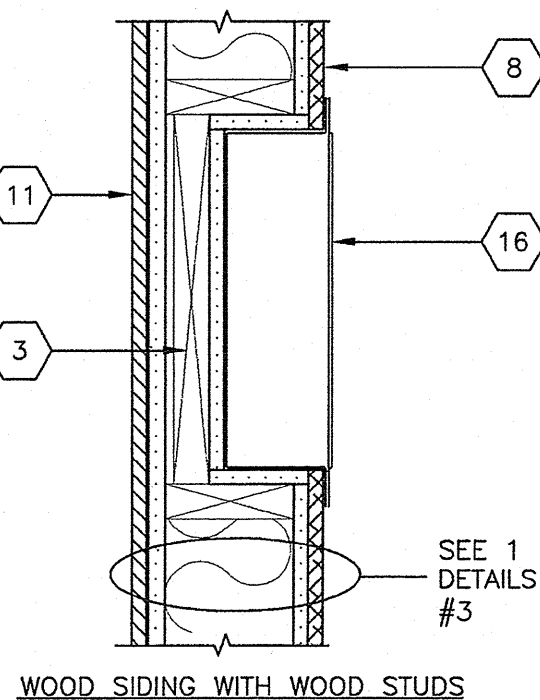
- NOTES:
1. COLUMN SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL. COLUMN SHALL BE PRIMED WITH 0.003 INCHES DRY FILM THICKNESS OF MODIFIED ALKID, EPOXY, ORGANIC ZINC OR INORGANIC ZINC BASED PRIMER.
 2. MASTIC COATINGS - COATING SPRAY, BRUSH OR TROWEL APPLIED DIRECTLY FROM CONTAINERS TO DESIRED THICKNESS SEE TABLE BELOW.



ONE HOUR PER ANSI/UL 263 DESIGN NO X661

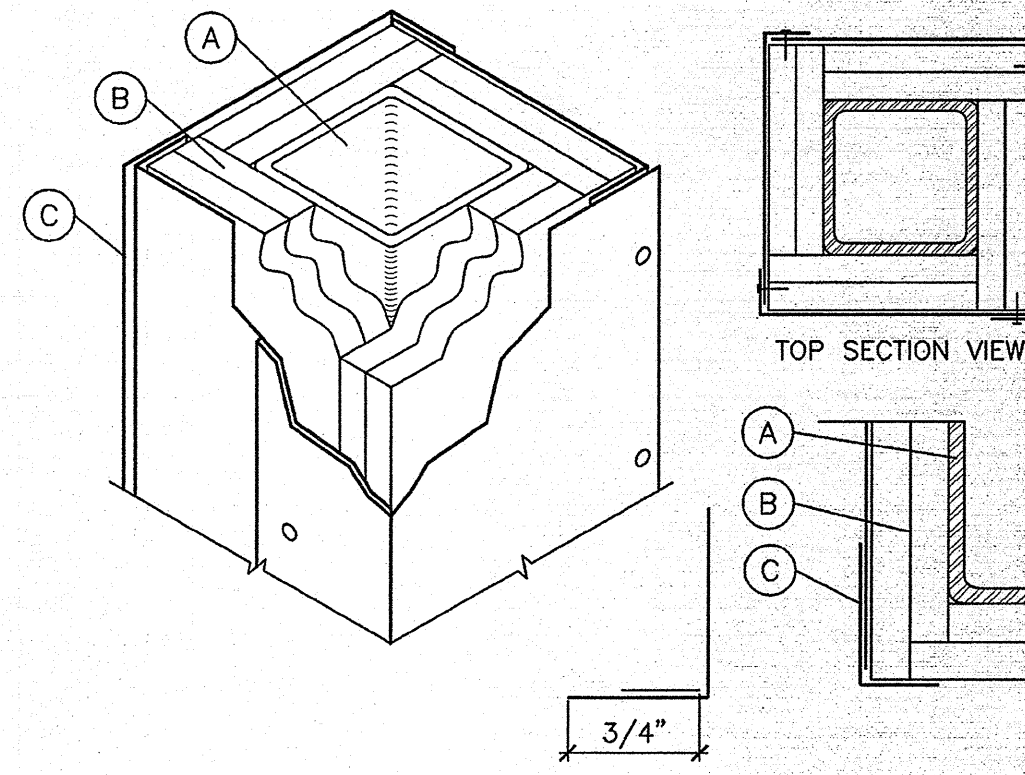
OPTIONAL SIZE	TS: 6 x 6 x 1/2	TS: 5 x 5 x 3/8	TS: 4 x 4 x 1/4	TS: 3 1/2 x 3 1/2 x 1/4
DRY THICKNESS FOR 1 HR PROTECTION	0.037 INCHES	0.047 INCHES	0.073 INCHES	0.074 INCHES
DRY TIME AT 50° F (BETWEEN COATS)	24 HRS	24 HRS	24 HRS	24 HRS
FLASH POINT	86° F	86° F	86° F	86° F
DURAMETER HARDNESS	SHORE D: 70 (CURED)	SHORE D: 70 (CURED)	SHORE D: 70 (CURED)	SHORE D: 70 (CURED)

FIRE RATED COLUMN - INTUMESCENT

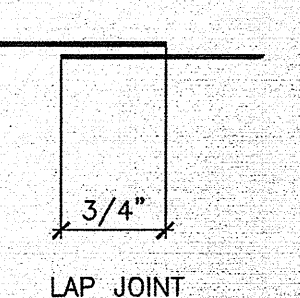


ELECTRICAL PANEL/FIRE EXTINGUISHER FRAMING @ EXTERIOR RATED WALL

NOTE: SIMILAR CONSTRUCTION AT INTERIOR WALLS & NON-RATED INT. & EXT. WALLS



- A. COLUMN
B. GYPSUM BOARD: (2) LAYERS 1/2" TYPE 'X'
C. SHEET METAL COVER: 22 GA



GA FILE NO. CM 1450
GYPSUM WALLBOARD, STEEL COLUMN COVER

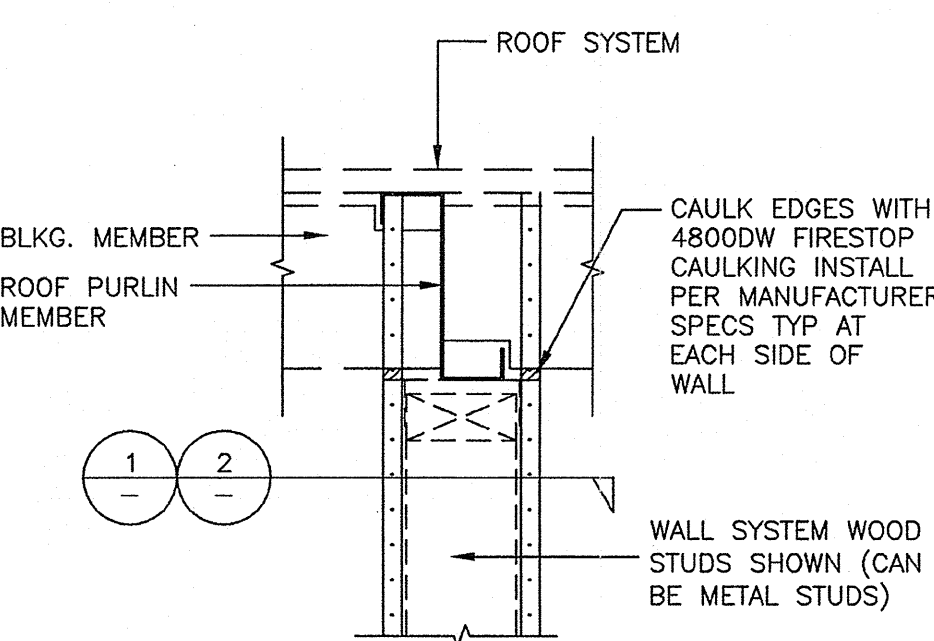
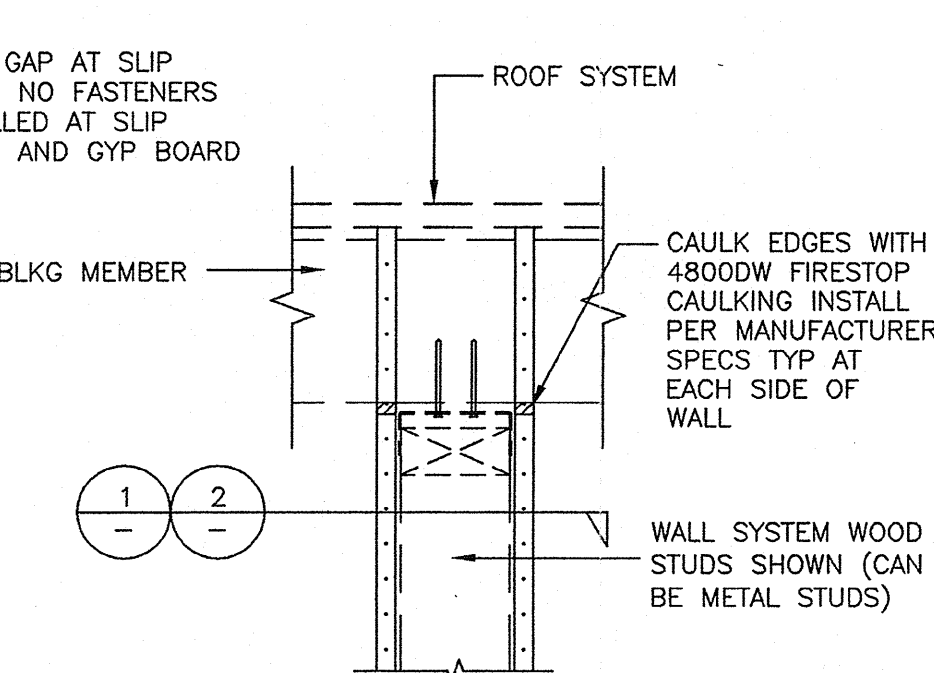
BASE LAYER-1/2" TYPE 'X' GYPSUM WALLBOARD APPLIED AROUND TS4x4x0.188 TUBE STEEL COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE

SECOND LAYER-1/2" TYPE 'X' GYPSUM WALLBOARD APPLIED WITHOUT HORIZONTAL JOIST TO COLUMN COVER WITH 1" TYPE S DRYWALL SCREWS 8" OC SPACED 1" FROM VERTICAL EDGES METAL CONERBEAD APPLIES TO ALL CORNERS WITH 1" TYPE S DRYWALL SCREWS 12" OC IN EACH FLANGE

FACE LAYER EITHER NO. 24 MSG GALVANIZED STEEL COLUMN COVERS CONSISTING OF TWO L-SHAPED SECTIONS WITH SNAP LOCK SHEET STEEL JOINTS OR NO. 22 MSG GALVANIZED STEEL COLUMN COVERS CONSISTING OF TWO L-SHAPED SECTIONS WITH LAP JOINTS FASTENED WITH NO. 8x1/2" SHEET METAL SCREWS 12" OC

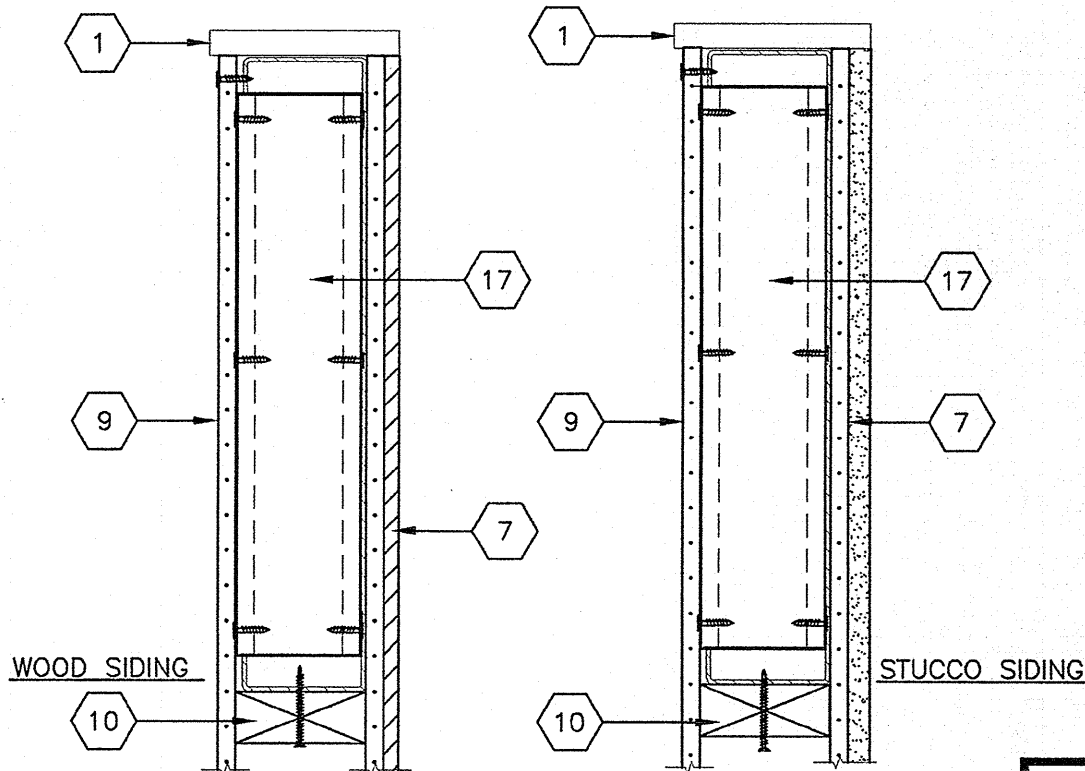
1 HOUR FIRE RATED COLUMN WRAP

NOT APPLICABLE AT MODLINES



1 HOUR INTERIOR PARTITION (TOP PLATE CONDITION)

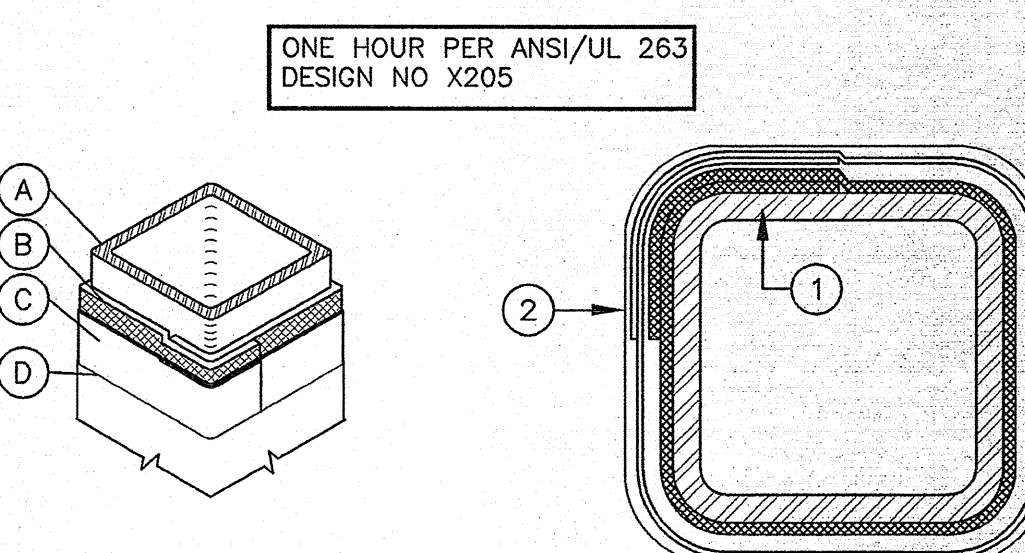
SCALE: NTS



EXT. 1 HR ROOF HEADER/BEAM

LIGHT FIXTURE RATED PROTECTION
USG, THERMAFIBER LIGHT FIXTURE PROTECTION KIT, VENTED BOX ASSEMBLY (5/8" RIGID BOARD)

1 HR RATED CEILING LIGHT ASSEMBLY



- A. COLUMN: SEE CHART
B. CERAMIC BLANKET: FIBERFRAX
C. SHEET METAL COVER: (S-BARRIER) 0.0003" THICK
D. STEEL WIRE TIES: AT 8" OC & AT EA HORIZONTAL SEAM

NOTES:

1. COLUMN SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL.
2. 'S-BARRIER' FIRE PROTECTION WRAP SYSTEM FOR STRUCTURAL STEEL COLUMNS BY NO-FIRE TECHNOLOGIES, INC FOR APPLICATION INSTRUCTIONS SEE 'S-BARRIER' MANUAL

COLUMN	W/D	BLANKET	RATING (MINUTES)
HSS 3.5"x3.5"x1/4"	0.73	1/2"	60
HSS 4"x4"x1/4"	0.87	1/2"	60
HSS 4"x4"x3/8"	1.3	1/2"	90
HSS 5"x5"x3/8"	1.3	1/2"	90
HSS 6"x6"x1/2"	1.74	NONE	60

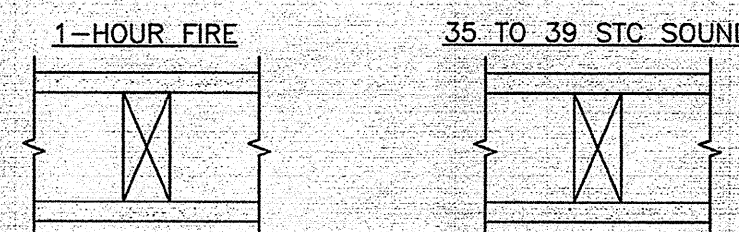
FIRE RATED COLUMN WRAP

GA FILE NO. WP 3514

GYPSUM WALLBOARD, WOOD STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2x4 WOOD STUDS 16" OC WITH 1 1/4" TYPE W DRYWALL SCREWS 12" OC

JOINTS STAGGERED 16" ON OPPOSITE SIDES (LOAD BEARING)



1 HOUR INTERIOR PARTITION-WOOD STUD

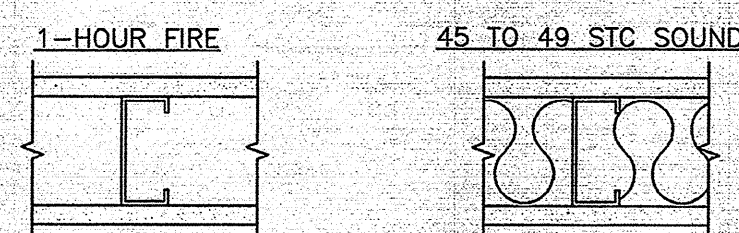
SCALE: NTS

GA FILE NO. WP 1072

GYPSUM WALLBOARD, STEEL STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 3 5/8"x20 GA STEEL STUDS 16" OC WITH 1" TYPE S DRYWALL SCREWS 8" OC AT VERTICAL JOINTS AND 12" OC AT FLOOR AND CEILING RUNNERS AND INTERMEDIATE STUDS

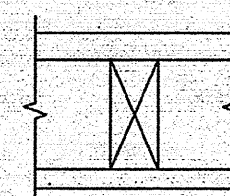
JOINTS STAGGERED 24" ON EACH SIDE AND ON OPPOSITE SIDES SOUND TESTED WITH 3 1/2" GLASS FIBER FRICTION FIT IN STUD SPACE



1 HOUR INTERIOR PARTITION-STEEL STUD

GYPSUM WALLBOARD, STUCCO EXTERIOR, WOOD STUDS

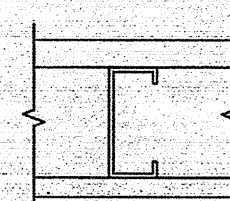
PER 2007 CBC, TABLE 720.1(2), ITEM 15-1.3
2x4 WOOD STUDS 16" OC WITH 7/8" CEMENT PLASTER (MEASURED FROM THE FACE OF STUDS) ON THE EXTERIOR SURFACE WITH INTERIOR SURFACE TREATMENT AS REQUIRED FOR INTERIOR/NONBEARING, NONCOMBUSTIBLE STUDS PARTITIONS IN THIS TABLE. PLASTER MIX 1:4 FOR SCRATCH COAT AND 1:5 FOR BROWN COAT, BY VOLUME, CEMENT TO SAND



1 HOUR EXTERIOR WALL-WOOD STUD

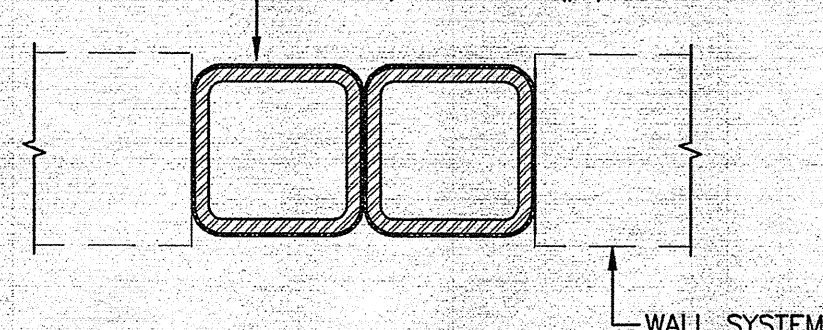
GYPSUM WALLBOARD, STUCCO EXTERIOR, STEEL STUDS

PER 2007 CBC, TABLE 720.1(2), ITEM 15-1.4
3 5/8" NO 16 GAGE NONCOMBUSTIBLE STUDS 16" OC WITH 7/8" (MEASURED FROM THE FACE OF STUDS) ON THE EXTERIOR SURFACE WITH INTERIOR SURFACE TREATMENT AS REQUIRED FOR INTERIOR/NONBEARING, NONCOMBUSTIBLE STUDS PARTITIONS IN THIS TABLE. PLASTER MIX 1:4 FOR SCRATCH COAT AND 1:5 FOR BROWN COAT, BY VOLUME, CEMENT TO SAND



1 HOUR EXTERIOR WALL-STEEL STUD

INTUMESCENT PAINT (SEE DETAIL #6) OR FIRE RATED COLUMN WRAP (SEE DETAIL #8)



1 HOUR AT MODLINE CONDITION

KEY NOTES

1. CLASS "A" ROOFING
2. 2x RAFTERS
3. 2x BLOCKING
4. ROOF RAFTER ABOVE FIRE RATED WALL WHEN PARALLEL, 2x BLOCKING @ 24" OC WHEN FIRE RATED WALLS ARE PERPENDICULAR TO RAFTERS
5. MODLINE TRUSS
6. ROOF JOIST SEE ROOF FRAMING PLAN
7. EXTERIOR FINISH
8. INTERIOR FINISH
9. PER DETAIL #3 OR 4
10. WALL SYSTEM WOOD STUDS SHOWN (CAN BE METAL STUDS)
11. EXTERIOR FINISH-SEE FINISH SCHEDULE
12. NOT USED
13. #10 SMS @ 32" OC MIN (3) PER STUD
14. HVAC UNIT
15. GALVANIZED METAL DUCTS
16. ELECTRICAL PANEL BOX OR FIRE EXTINGUISHER CABINET
17. 20 GA METAL STUDS

MODULAR STRUCTURES INTERNATIONAL, INC.

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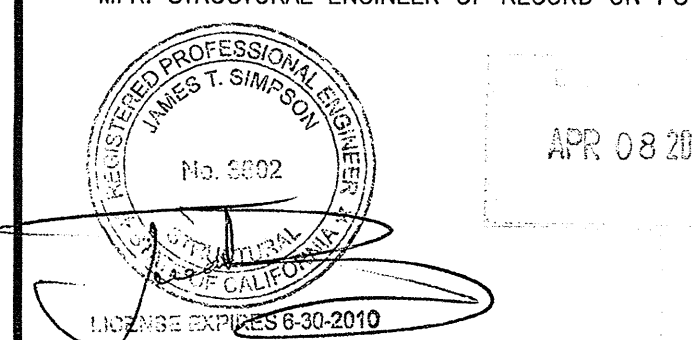
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE: FIRE RATED ASSEMBLIES

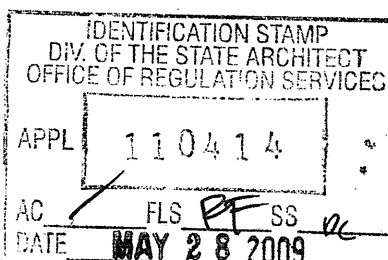
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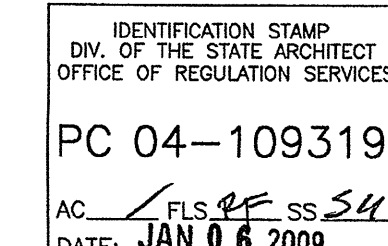
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

PROJECT NO.: 09-****

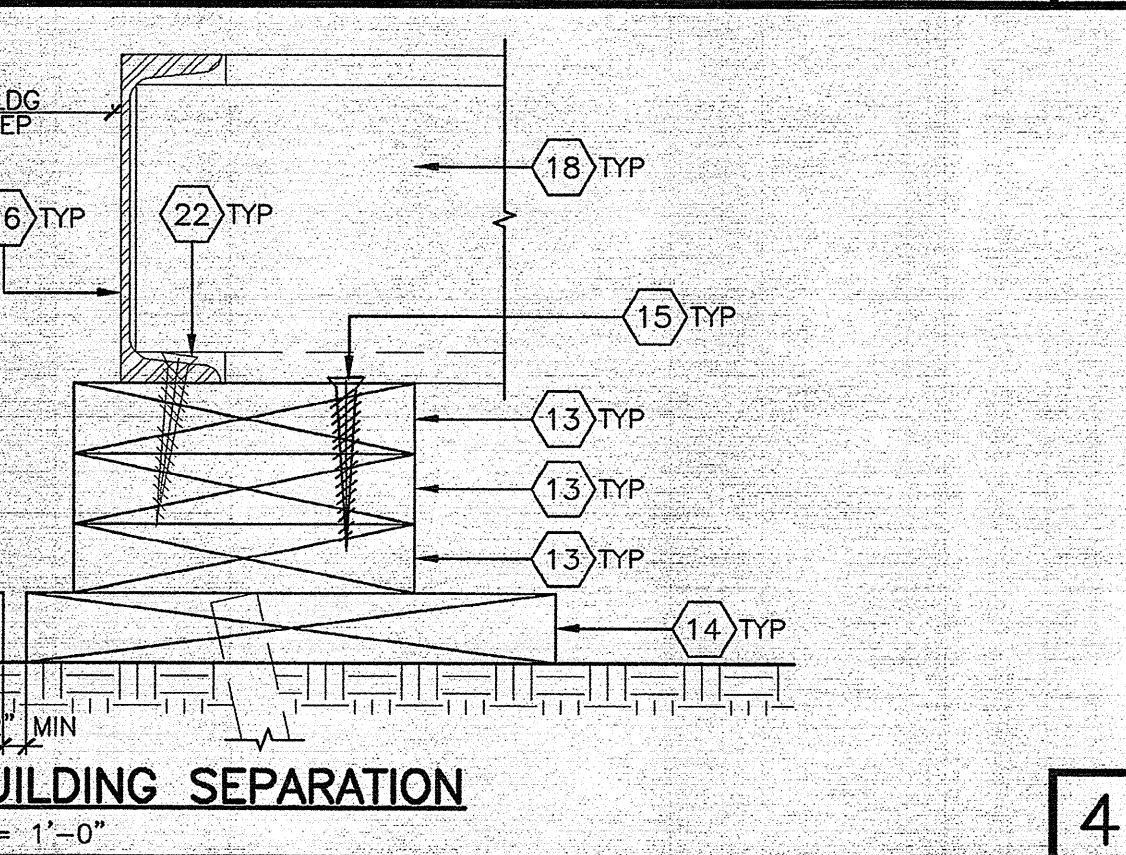
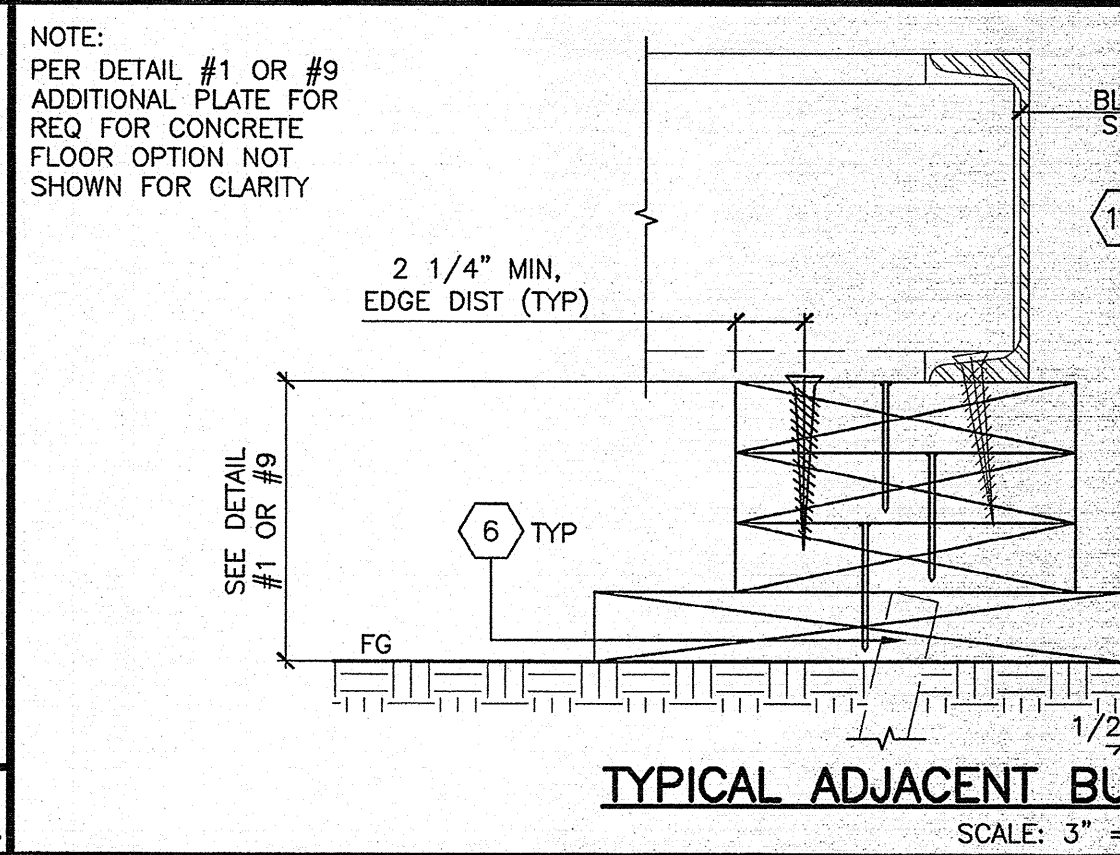
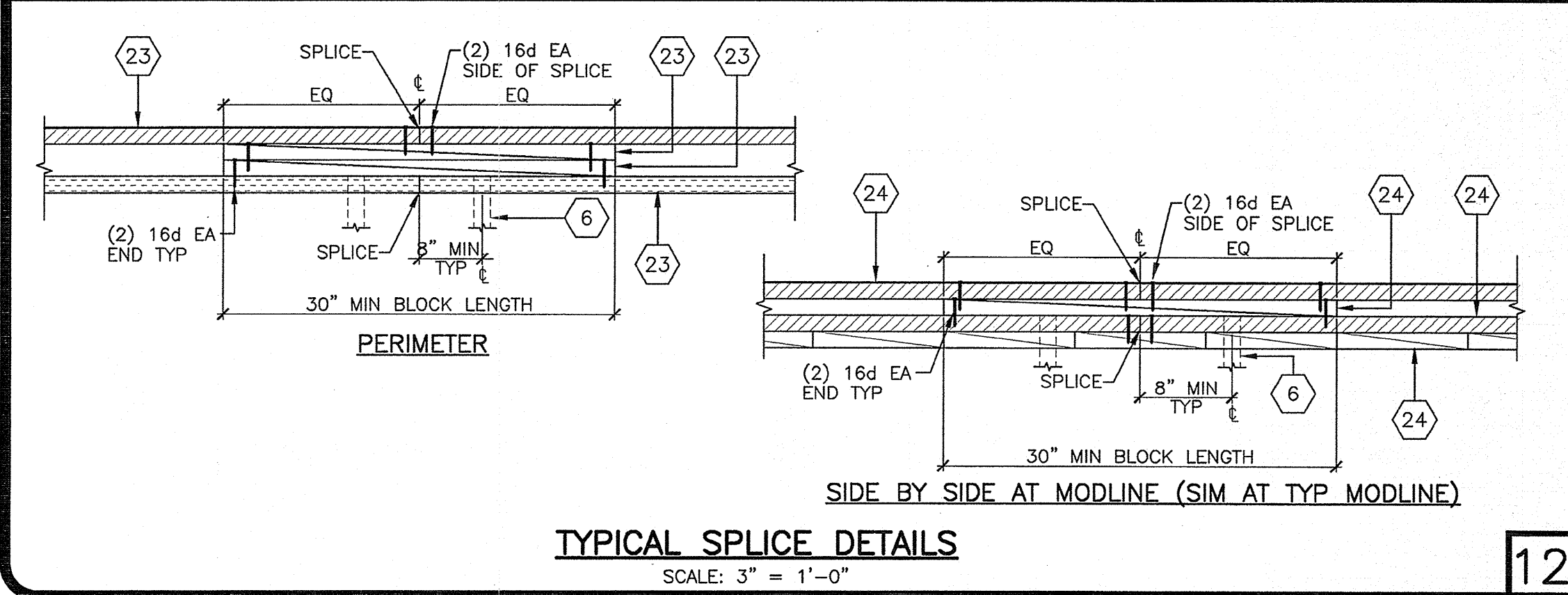
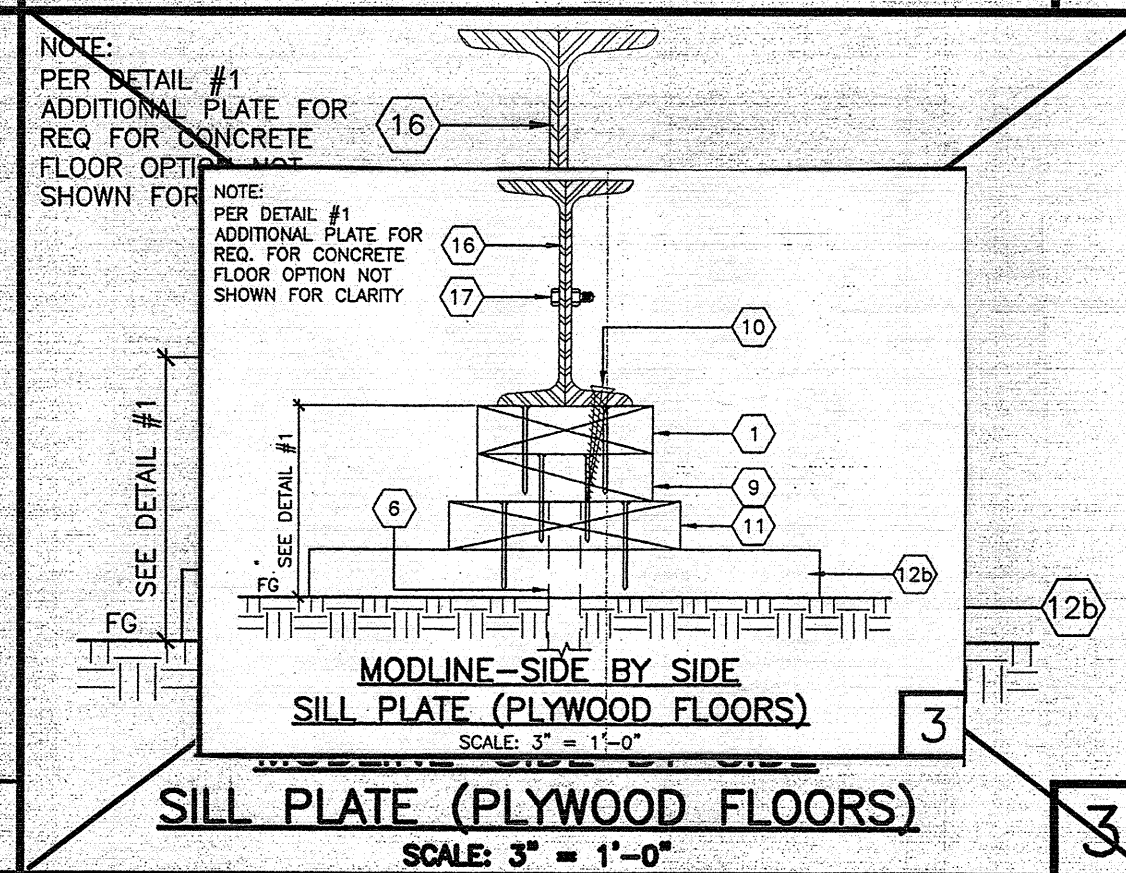
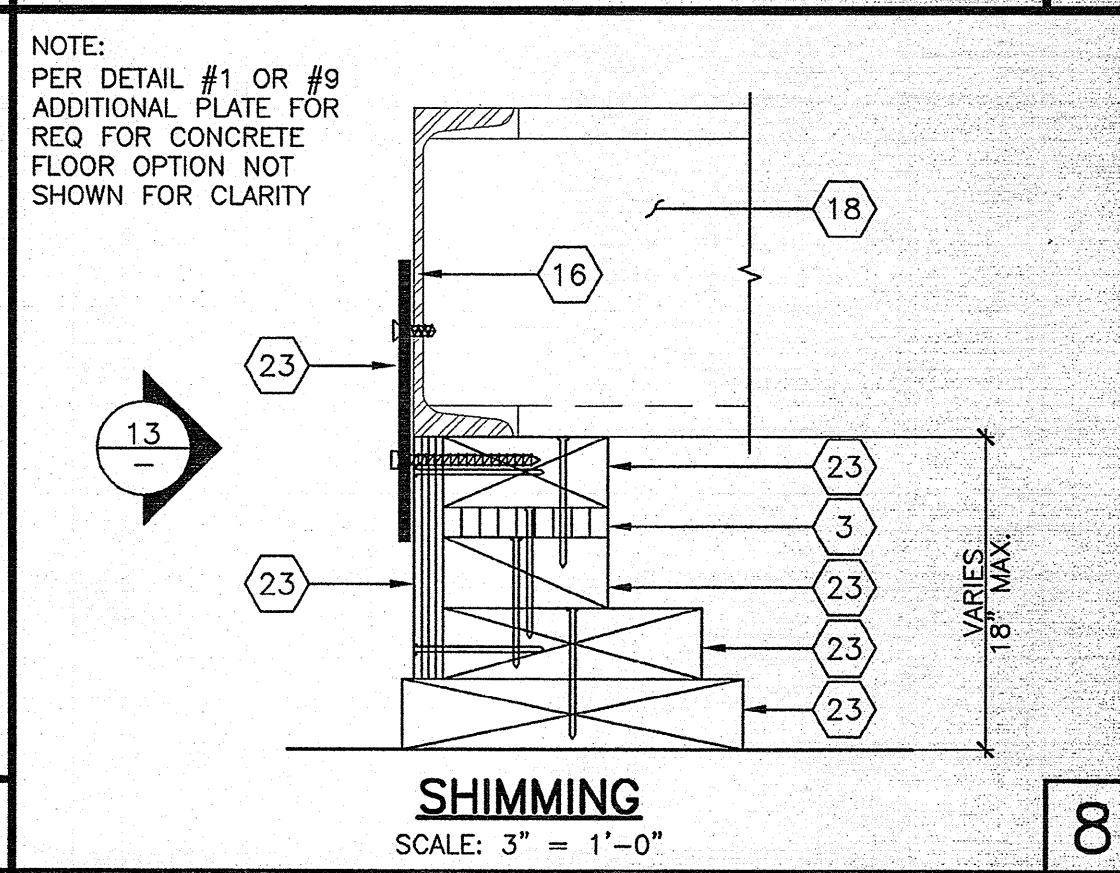
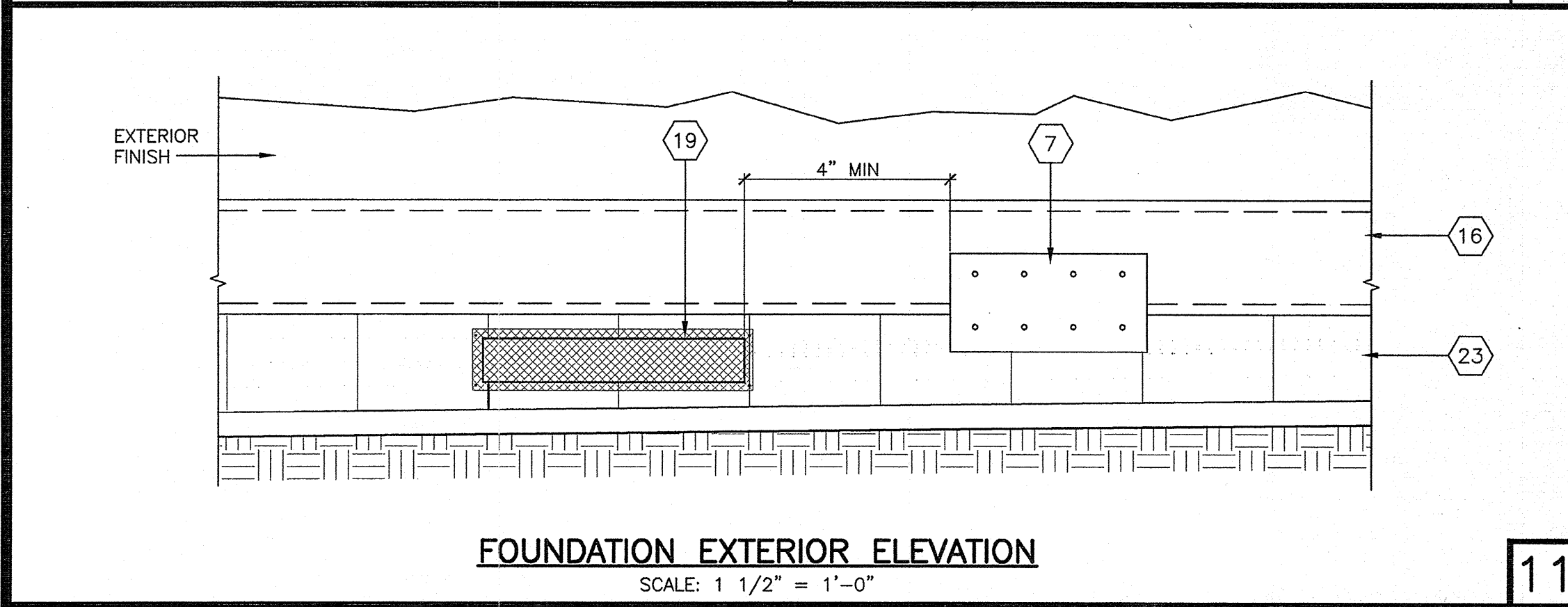
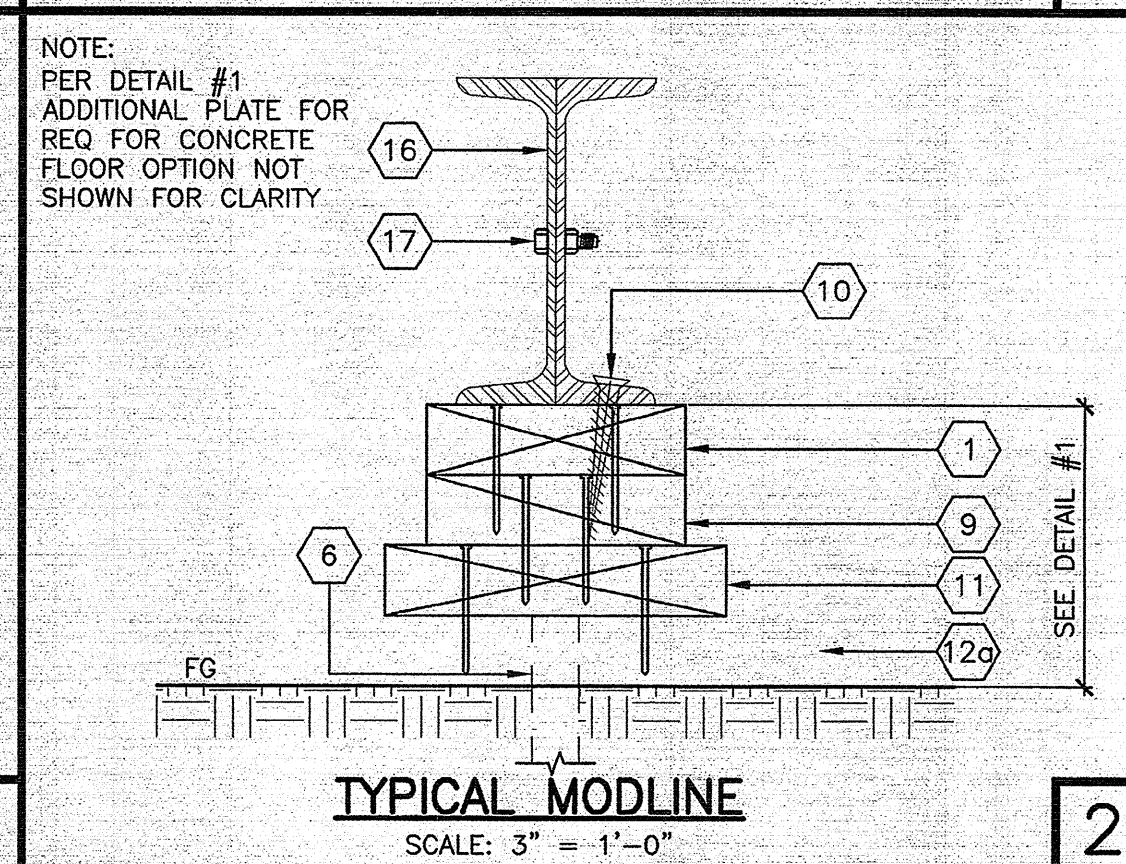
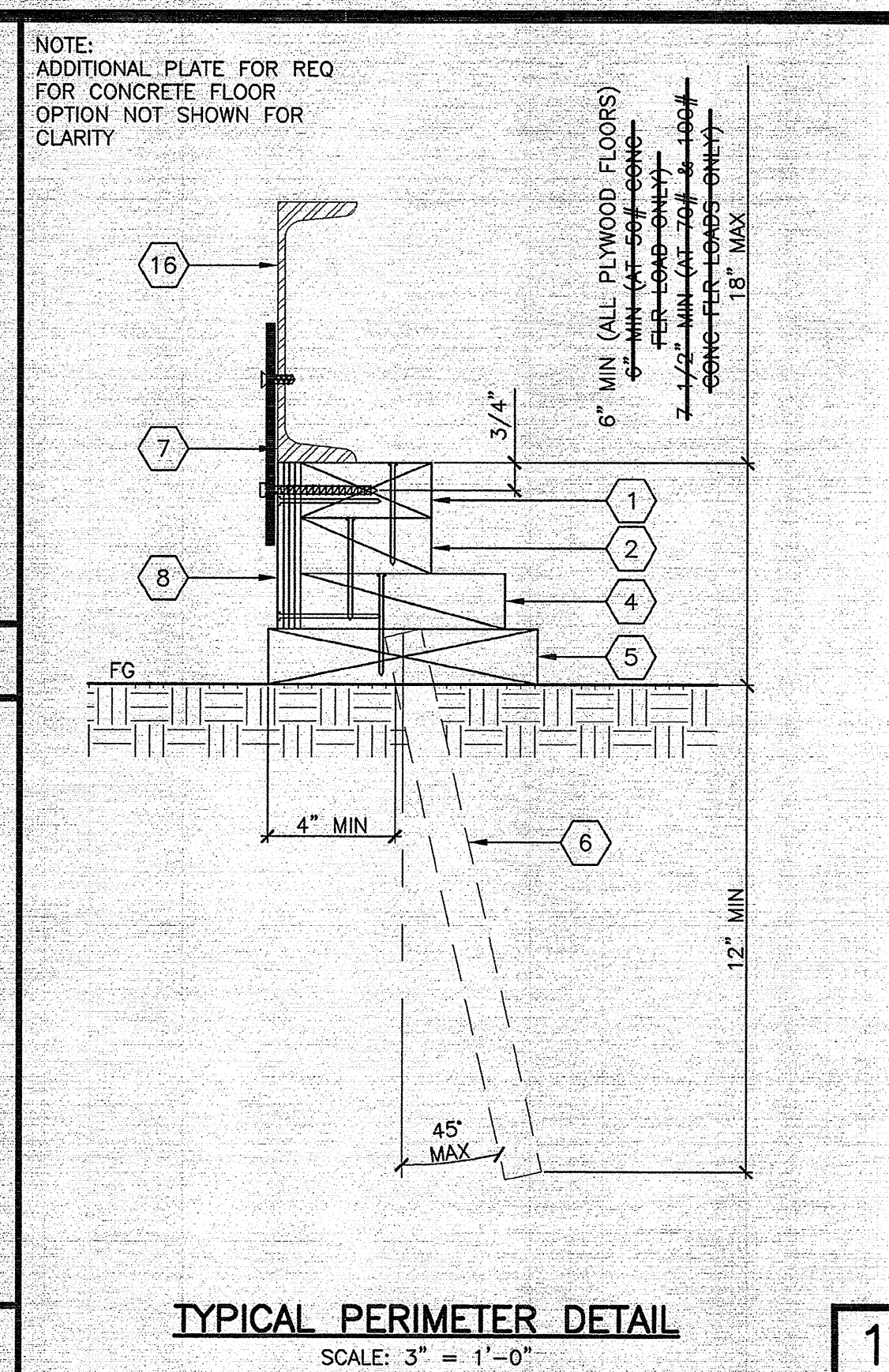
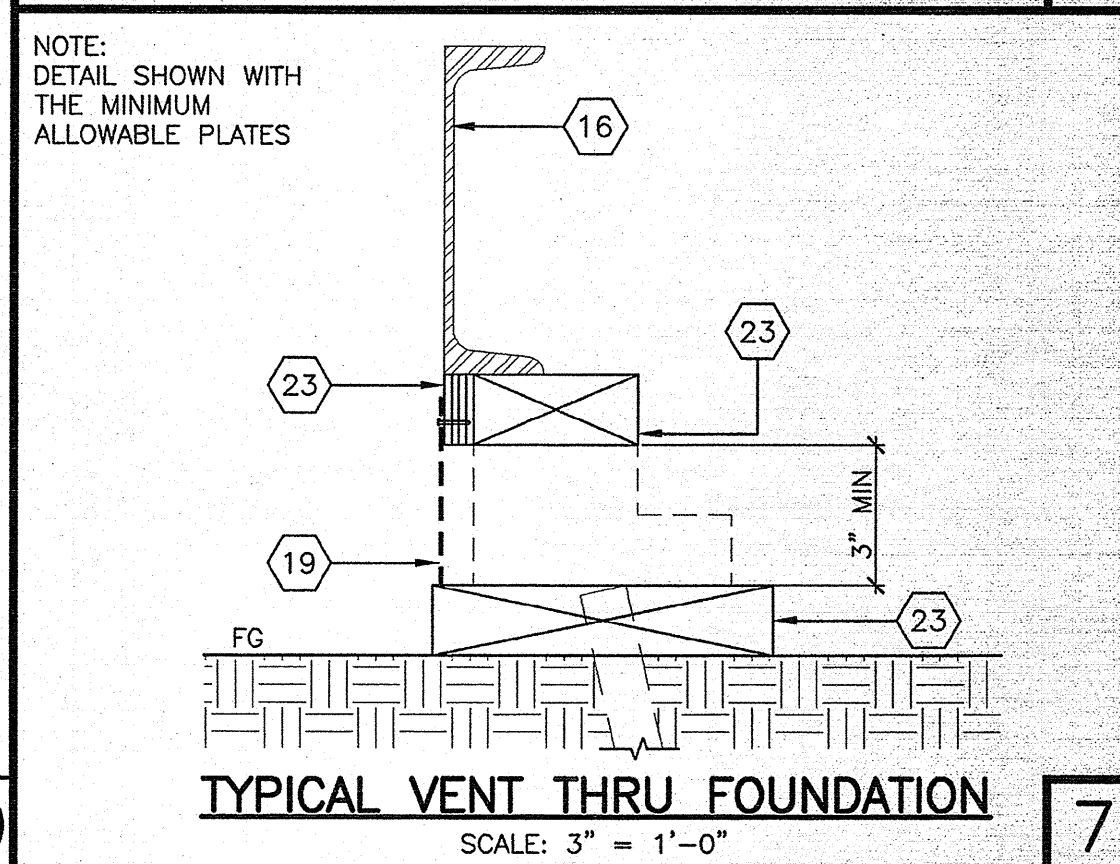
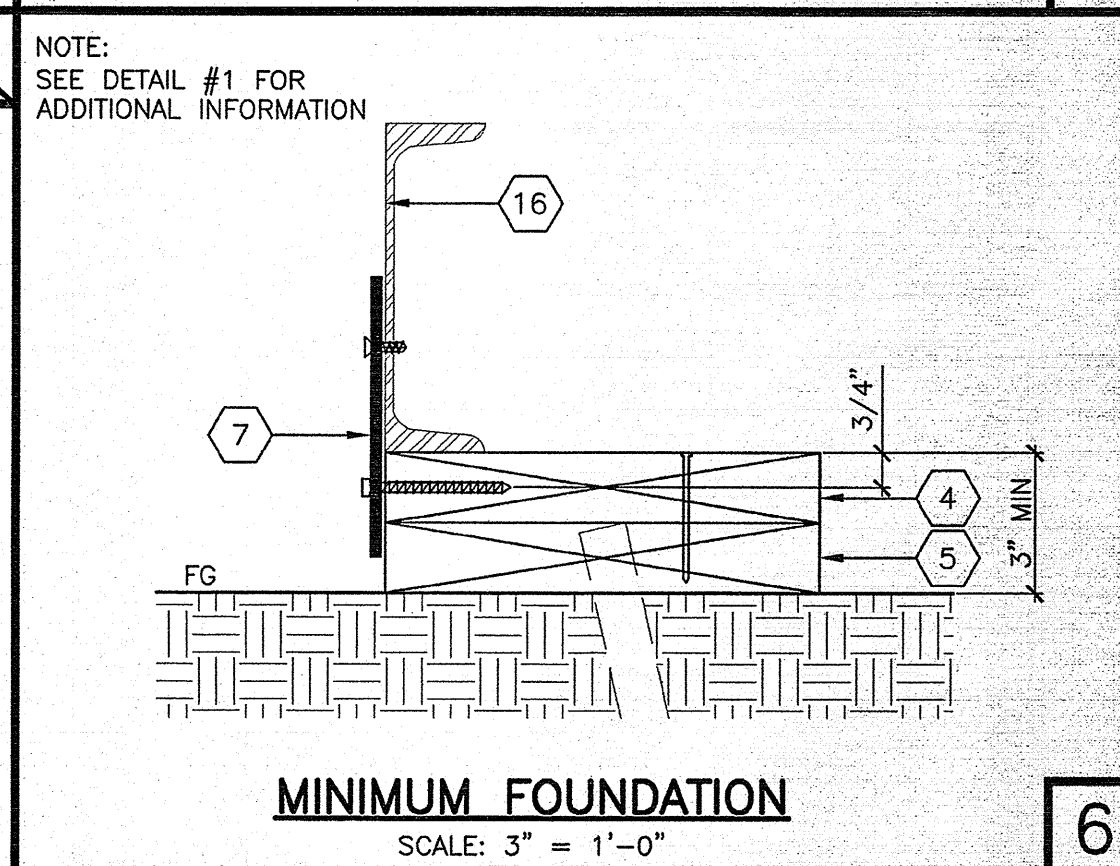
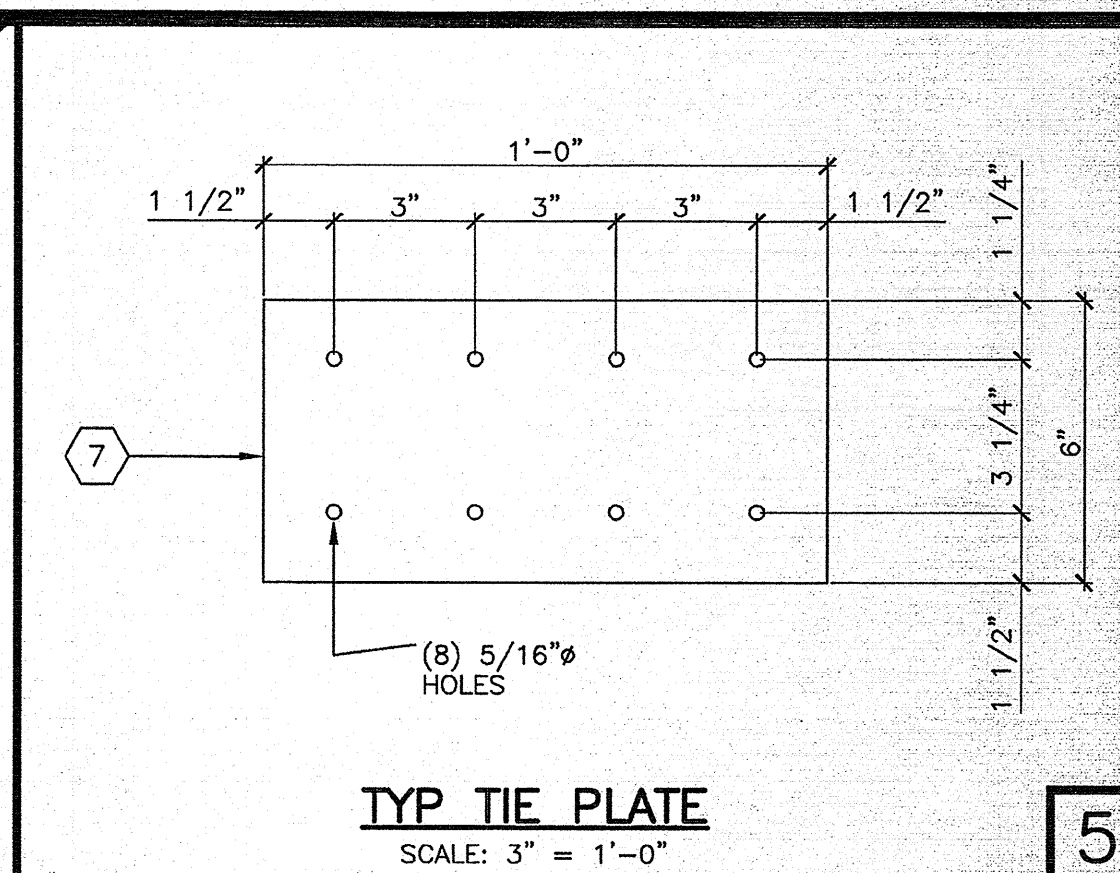
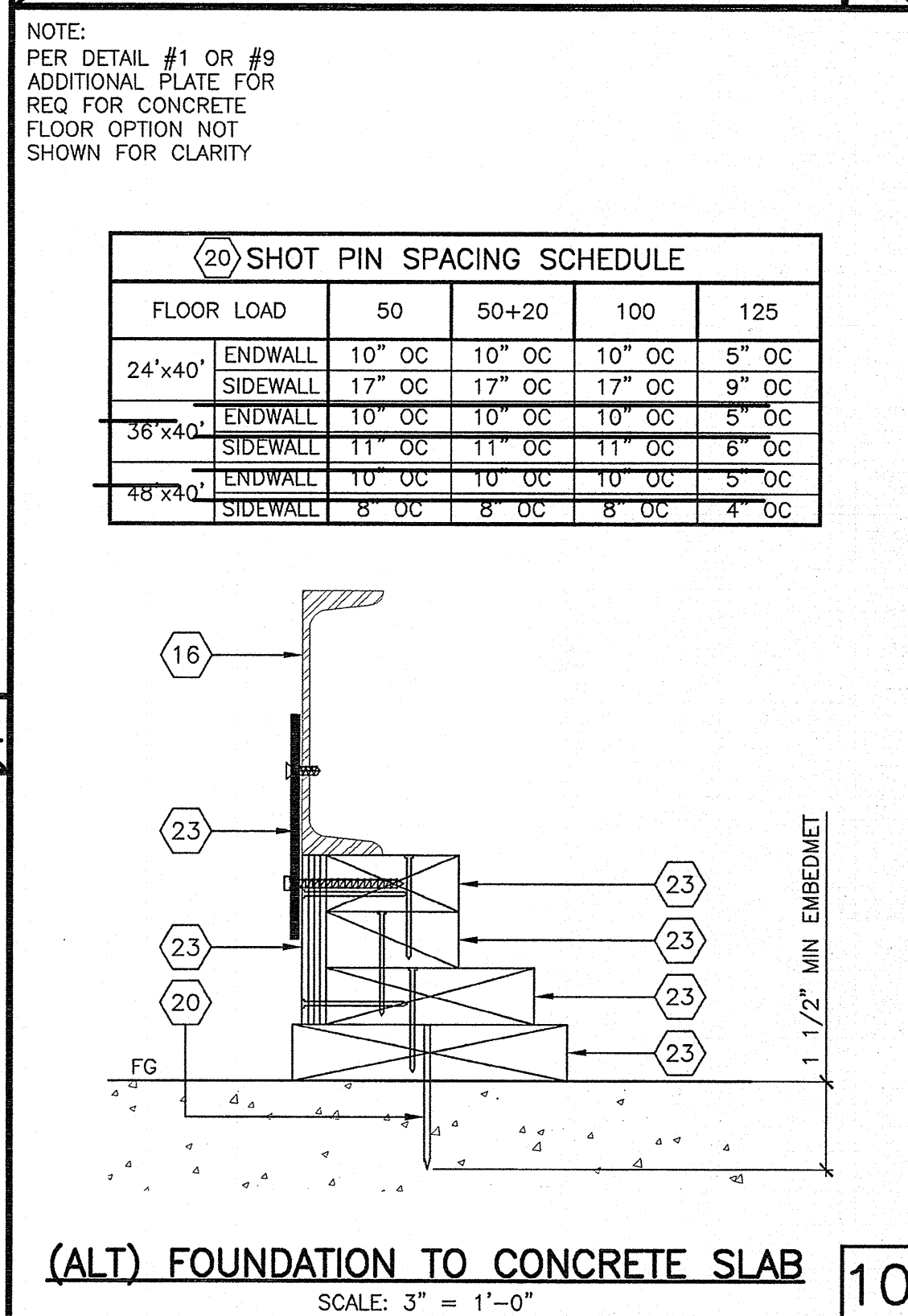
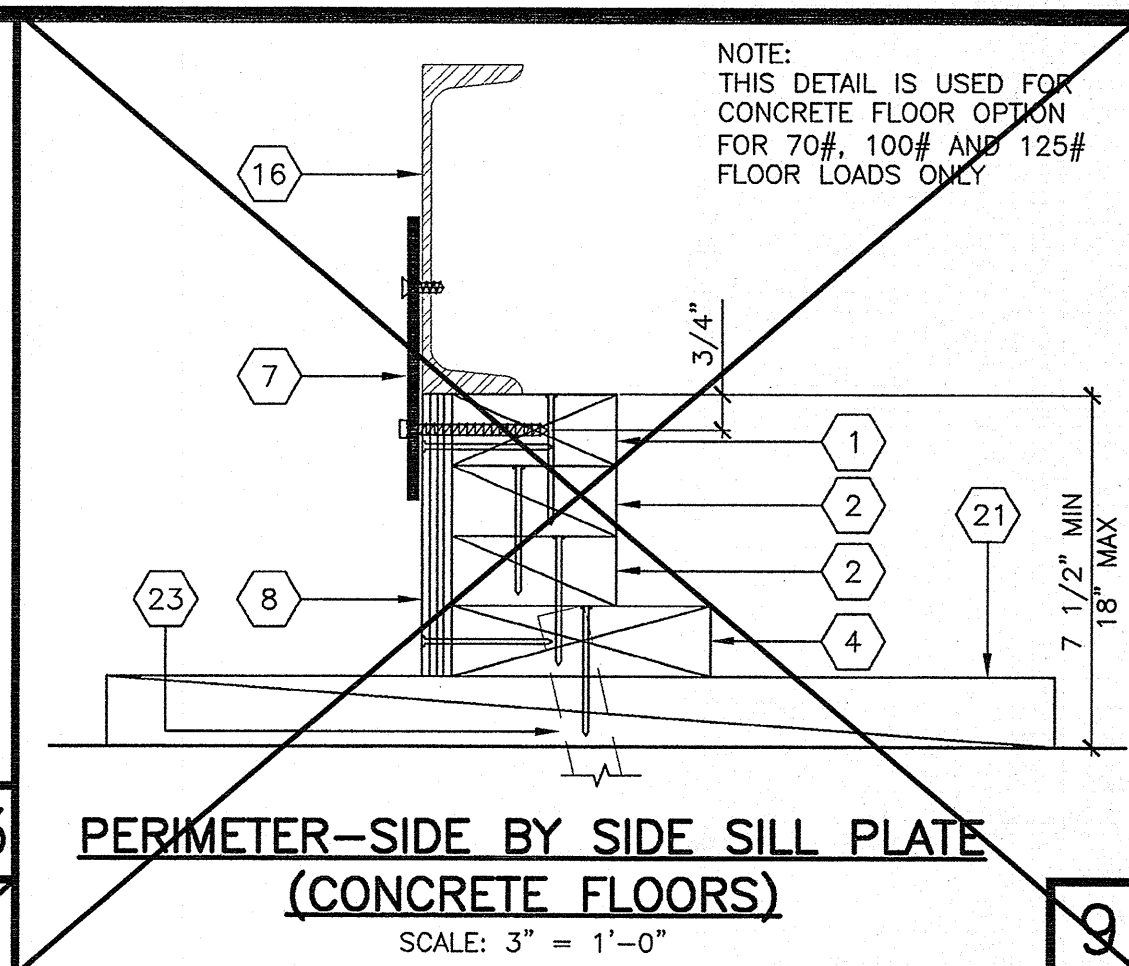
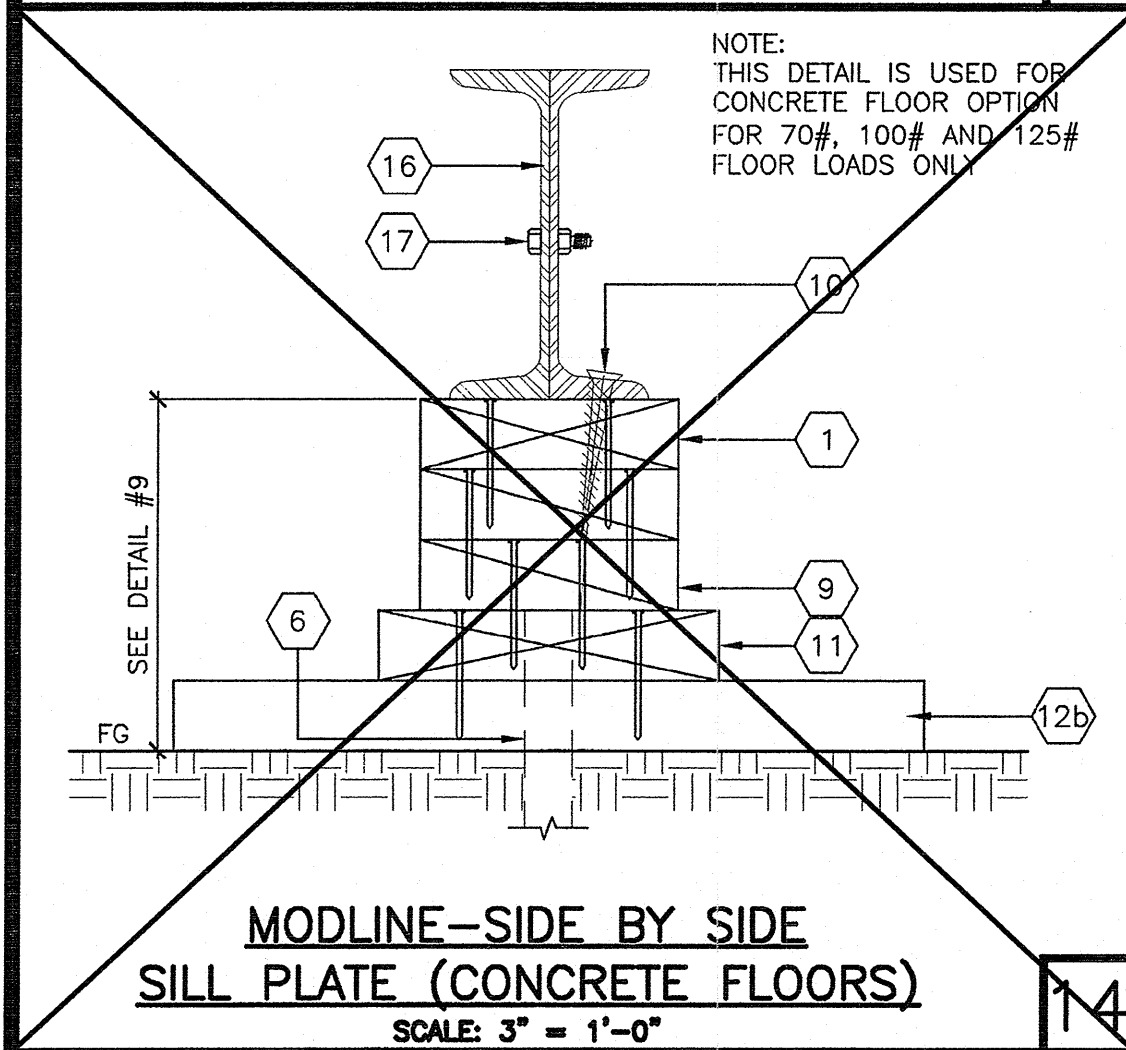
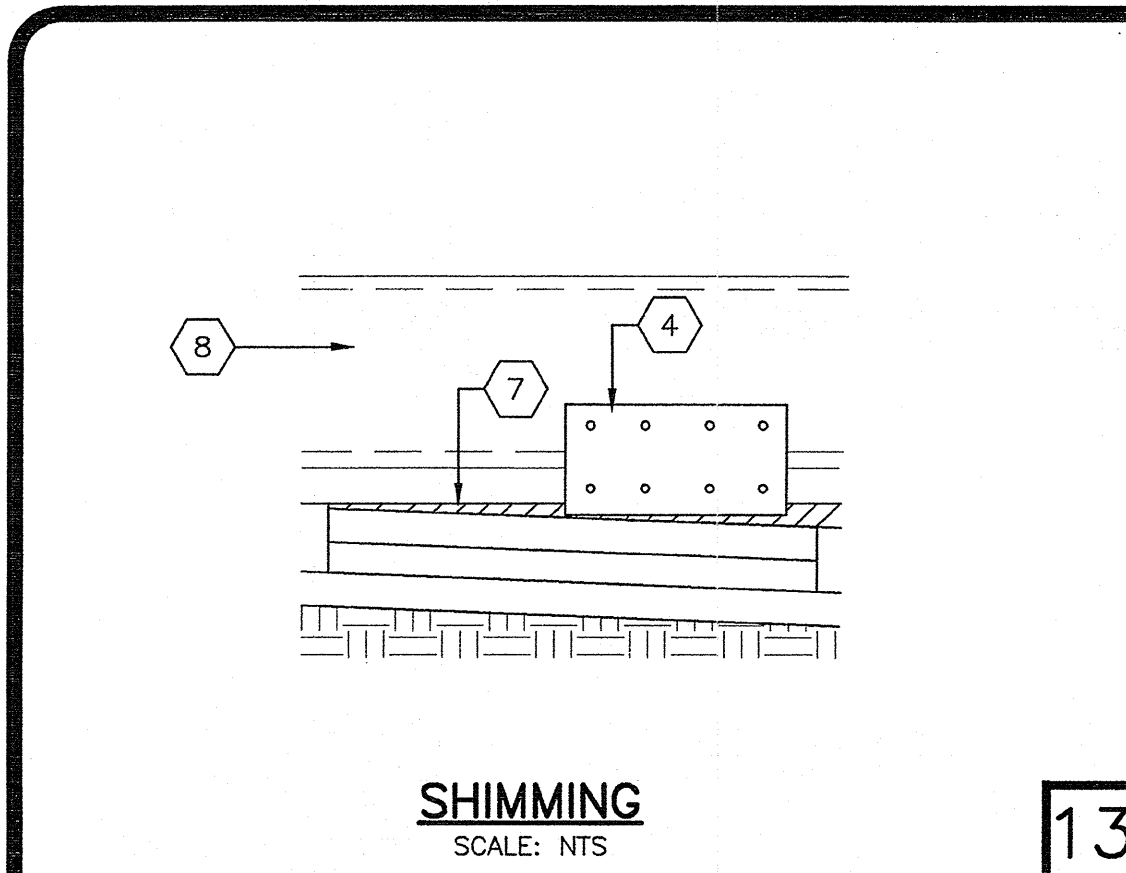
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SCALE: AS NOTED

DATE: 05-22-09

SHEET NUMBER

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KEY NOTES

- CONTINUOUS TOP PLATE INSTALL NAIL TO EACH PAD WITH 16d BOX NAILS AT 5" OC STAGGERED & (2) 16d NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION
- BLOCK PLATES FOR PLYWOOD FLOOR OPTIONS:
24', 36' & 48' X 40' BUILDINGS - 16d BOX NAILS AT 3 1/2" OC FOR 50# & 70# FLOOR LOADS 2" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END
BLOCK PLATES FOR CONCRETE FLOOR OPTIONS:
24', 36' & 48' X 40' BUILDINGS - 16d BOX NAILS AT 2" OC FOR 50# & 70# FLOOR LOADS 1 3/4" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END
- 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 16d BOX NAILS AT 6" OC NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)
- BLOCK PLATE PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATIONS (SEE GENERAL NOTE #3) WITH 16d BOX NAILS AT 3 1/2" OC AND (2) 16d NAILS AT EACH END
- CONTINUOUS PRESSURE TREATED SILL PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION
- 1" x 19" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 SECTION 4.8. DRILL SILL PLATE 1 1/2" MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE
- 12" X 6" X 10 GA GALV TIE PLATE WITH (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x3/4" LONG STS INTO CHANNEL & (4) 1/4"x3" LAG BOLTS INTO 2x MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES 5/8" PLYWOOD PERIMETER SKIRTING, NAIL TO FOUNDATION PLATES WITH 8d BOX NAILS @ 12" OC TOP AND BOTTOM
- MODLINE-BLOCK PLATE NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" OC AND (2) 16d NAILS AT EACH END
- 5/8" x 4" LAG BOLT AT MODLINE (SEE LAG SCHEDULE FOR AMOUNT)
- MODLINE-CONTINUOUS PLATE NAIL (2) 16d @ 4" OC AND (2) 16d NAILS AT EACH END
- MODLINE-CONTINUOUS PRESSURE TREATED SILL PLATE FOR PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK LOCATIONS
- MODLINE-SIDE BY SIDE PRESSURE TREATED SILL PADS
- BUILDING SEPARATION-CONTINUOUS PLATE NAIL (2) 16d AT 4" OC AND (2) 16d AT EACH END
- BUILDING SEPARATION-SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE BUILDING SEPARATION SCHEDULE FOR QUANTITY)
- 11/16" HOLE IN FLOOR JOIST FOR 5/8" x 4" LAG BOLT (SEE LAG SCHEDULE FOR AMOUNT)
- FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)
- MACHINE BOLT (SEE STRUCTURAL BUILDING SECTION SHEET FOR SPACING)
- FLOOR JOIST OR BLOCK
- VENT SCREEN ATTACHED TO FOUNDATION W/ #8 SCREWS AT CORNERS
- 0.145" x 4" LONG X-DRI 72 'HILT' SHOT PIN PER ICC REPORT # ESR-1663 (SEE SCHEDULE FOR QUANTITY, STAGGER SPACING)
- BOTTOM SILL PLATES SIDE BY SIDE
- ALTERNATE LAG ATTACHMENT LOCATION
- PER DETAIL #1
- PER DETAIL #3

GENERAL NOTES:

- CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES
- SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN
- BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED

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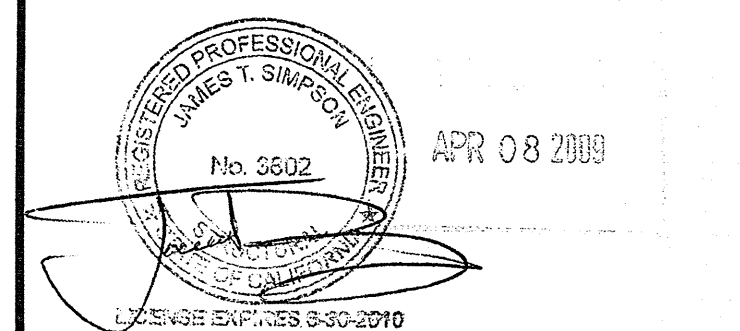
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

WOOD PAD FOUNDATION DETAILS

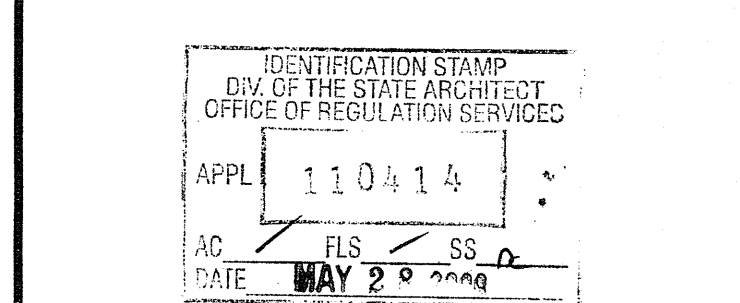
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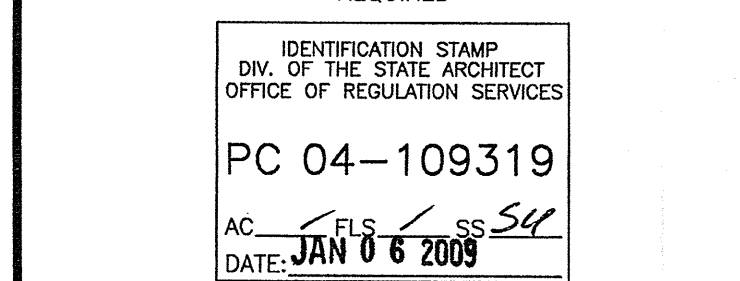
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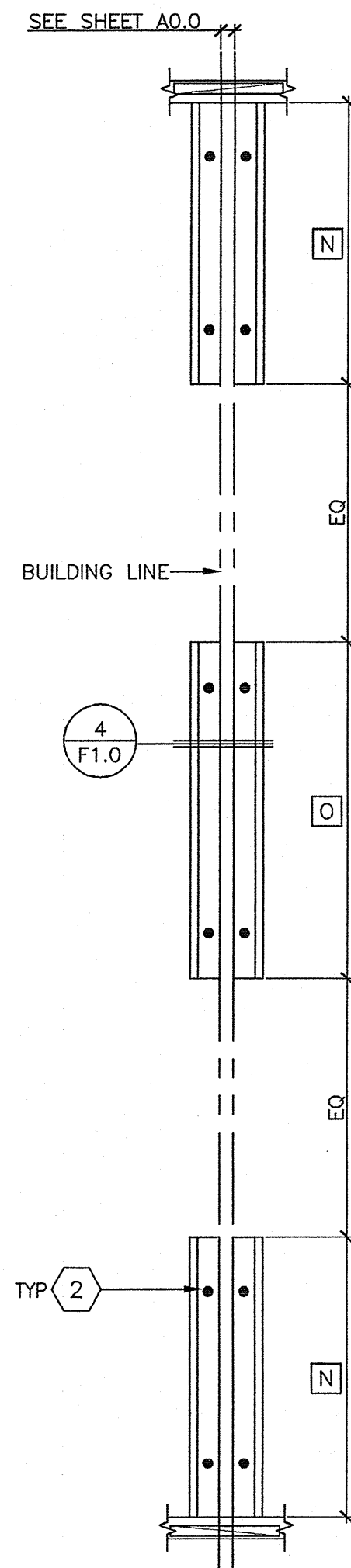
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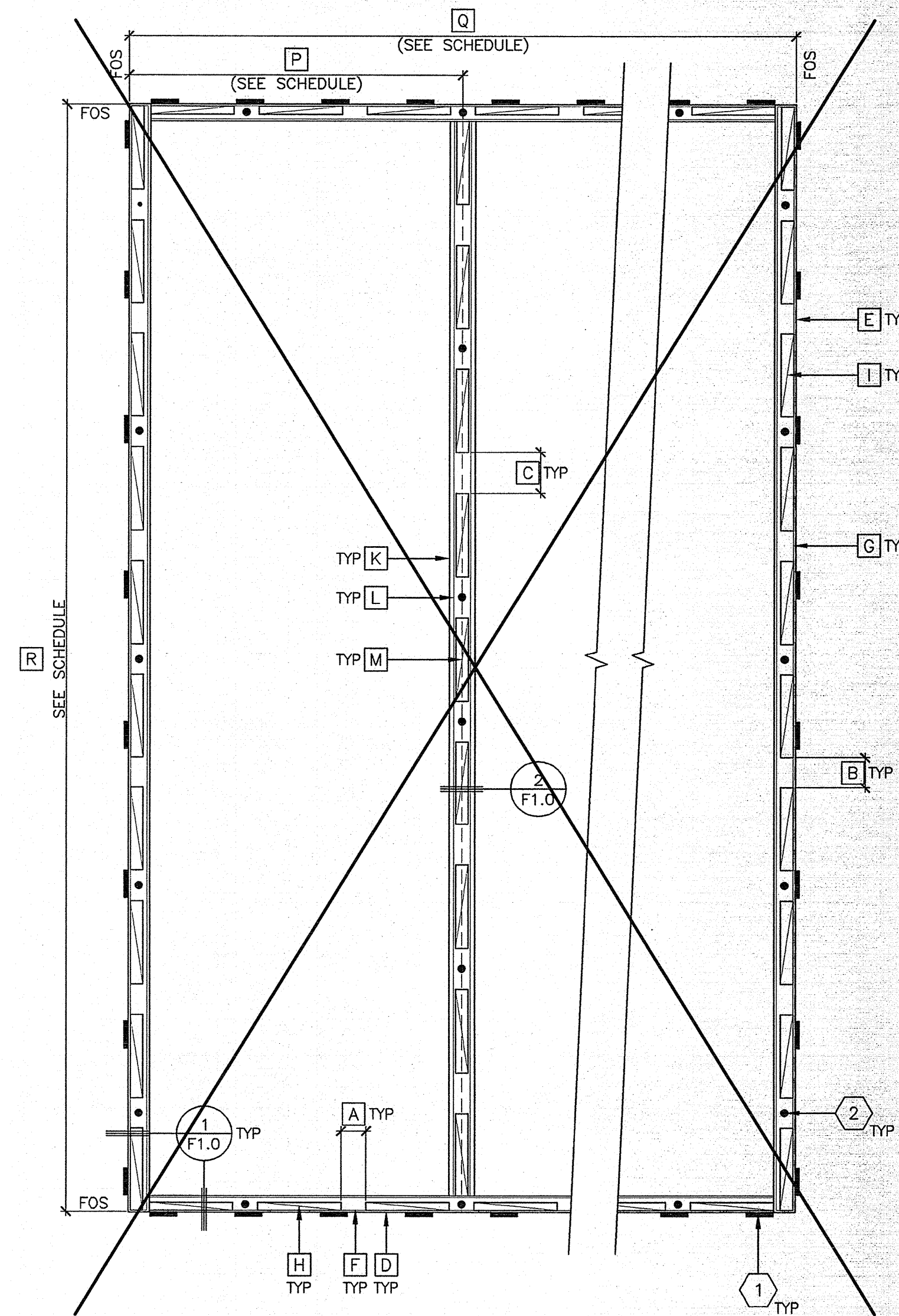
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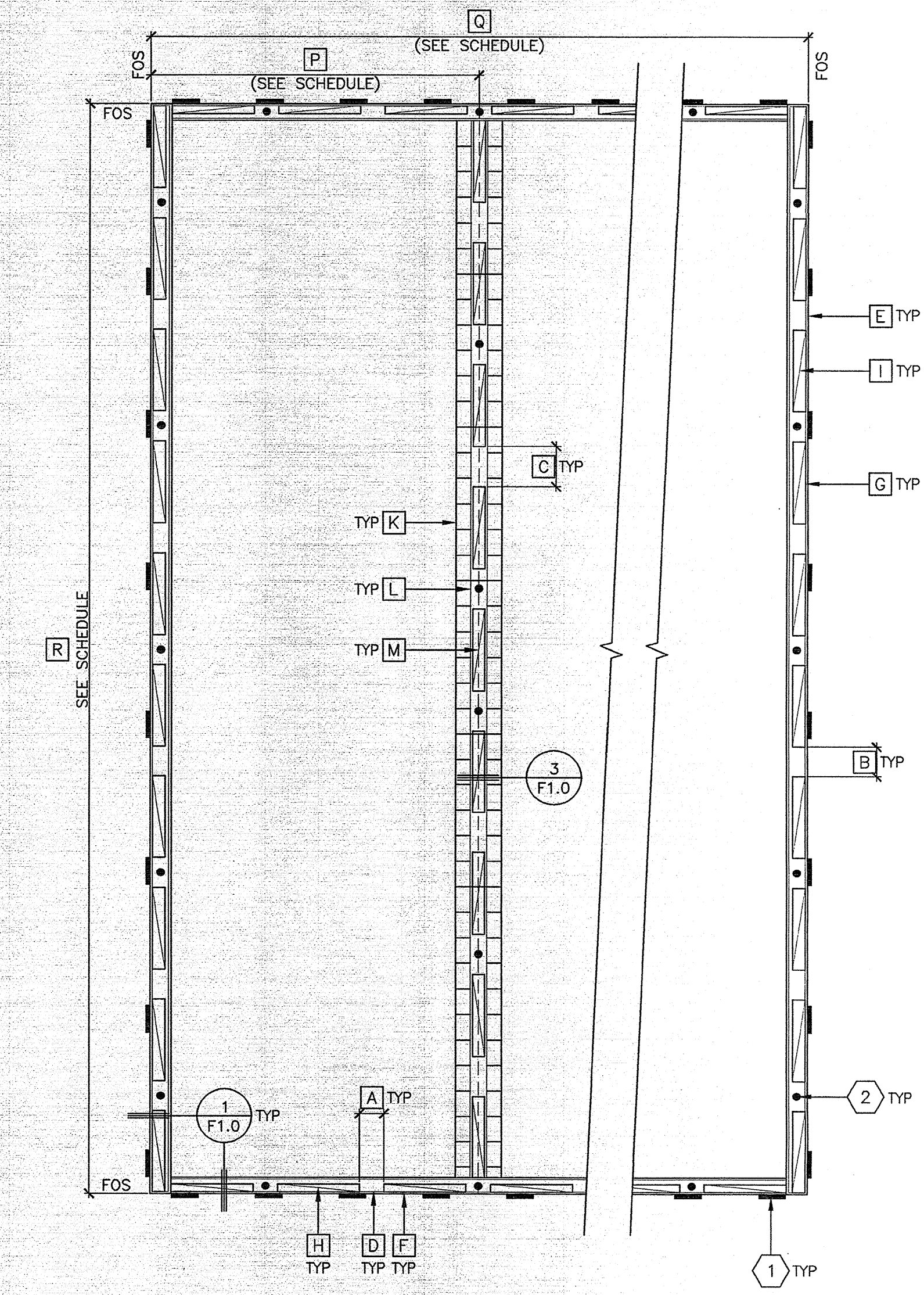
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50, 50+20, 100 & 125 PSF FLL ADJACENT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



50 & 50+20 PSF



100 & 125 PSF

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

SCHEDULES (□ = REF LETTERS TO SCHEDULES BELOW TYP)

MAX SPACE BETWEEN FOUNDATION BLOCKS				
FLOOR LIVE LOAD PSF	50	50+20	100	125
A END WALL	16"	19"	20"	20"
B SIDE WALL	16"	19"	20"	20"
C MODLINE	19"	14"	13"	12"

WOOD PAD FOUNDATION (PERIMETER)				
FLOOR LIVE LOAD PSF	50	50+20	100	125
D SILL PLATE (END WALL)	2x10 CONT	2x10 CONT	2x12 CONT	2x12 CONT
E SILL PLATE (SIDE WALL)	2x8 CONT	2x10 CONT	2x12 CONT	2x12 CONT
F BLOCK PLATE (END WALL)	2x6	2x6	2x6	2x6
G BLOCK PLATE (SIDE WALL)	2x6	2x6	2x6	2x6
H BLOCK PLATE (END WALL)	2x4	2x4	2x4	2x4
I BLOCK PLATE (SIDE WALL)	2x4	2x4	2x4	2x4
J CONT. TOP PLATE	2x4	2x4	2x4	2x4

WOOD PAD FOUNDATION (MODLINE)				
FLOOR LIVE LOAD PSF	50	50+20	100	125
K SILL PLATE	2x12 CONT	2x12 CONT	2x12 CONT	2x12 CONT
L CONTINUOUS PLATE	2x8 CONT	2x6	2x8	2x6
M BLOCK PLATE	2x6	2x6	2x6	2x6
S TOP PLATE	2x6 CONT	2x6 CONT	2x6 CONT	2x6 CONT

ADJACENT BUILDING SEPARATION	
50 PSF	
N SILL PLATE	2x10 x 7'-8 1/2"L
O CONTINUOUS PLATES	2x8 x 7'-8 1/2"L
N SILL PLATE	2x10 x 9'-3"L
O CONTINUOUS PLATES	2x8 x 9'-3"L
50+20 PSF	
N SILL PLATE	2x10 x 9'-3"L
O CONTINUOUS PLATES	2x8 x 9'-3"L
N SILL PLATE	2x10 x 12'-4"L
O CONTINUOUS PLATES	2x8 x 12'-4"L
100 PSF	
N SILL PLATE	2x12 x 10'-0 1/4"L
O CONTINUOUS PLATES	2x10 x 10'-0 1/4"L
N SILL PLATE	2x12 x 12'-4"L
O CONTINUOUS PLATES	2x10 x 12'-4"L
125 PSF	
N SILL PLATE	2x12 x 10'-9 1/2"L
O CONTINUOUS PLATES	2x10 x 10'-9 1/2"L
N SILL PLATE	2x12 x 13'-1"L
O CONTINUOUS PLATES	2x10 13'-1"L

TOTAL FOUNDATION FOS TO FOS				
	50 PSF	24'x40'	36'x40'	48'x40'
P LH OR RH MODULE	12'-0 1/4"	12'-0 1/4"	12'-0 1/4"	12'-0 1/4"
Q END WALL WIDTH	24'-1/2"	36'-1/2"	48'-1/2"	48'-1/2"
R SIDE WALL LENGTH	40'-0 1/2"	40'-0 1/2"	40'-0 1/2"	40'-0 1/2"
50+20 PSF				
P LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q END WALL WIDTH	24'-3/4"	36'-3/4"	48'-3/4"	48'-3/4"
R SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"
100 PSF				
P LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q END WALL WIDTH	24'-3/4"	36'-3/4"	48'-3/4"	48'-3/4"
R SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"
125 PSF				
P LH OR RH MODULE	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"	12'-0 3/8"
Q END WALL WIDTH	24'-1/2"	36'-1/2"	48'-1/2"	48'-1/2"
R SIDE WALL LENGTH	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"	40'-0 3/4"

LAG SCHEDULE (6 SEP ONLY)		
BUILDING SIZE	FLOOR LOAD PSF	LAG QUANTITY (PER MODULE)
24'x40'	50	6
	50+20	6
	100	6
	125	10
36'x40'	50	7
	50+20	7
	100	7
	125	11
48'x40'	50	8
	50+20	8
	100	8
	125	12

TIE PLATE SCHEDULE			
BUILDING SIZE	FLOOR LOAD PSF	FACE PLATES PER SIDEWALL EQ SPACED	FACE PLATES PER ENDWALL EQ SPACED
24'x40'	50	6	6
	50+20	6	6
	100	6	6
	125	10	10
36'x40'	50	7	7
	50+20	7	7
	100	7	7
	125	12	12
48'x40'	50	8	8
	50+20	8	8
	100	8	8
	125	14	14

STAND-ALONE BUILDING VENTILATION	
REQUIRED VENTILATION	MIN VENTS PER SIDE
24'x40' = 6.4 SF	3
36'x40' = 9.6 SF	3
48'x40' = 12.8 SF	3

MULTIPLE-BUILDING VENTILATION		
MULTIPLE BLDG VENT	MIN VENT PER END WALL	MIN VENT PER SIDE WALL
60'x40' = 16 SF	21	6
72'x40' = 19.2 SF	26	6
84'x40' = 22.4 SF	31	6
96'x40' = 25.6 SF	36	6
108'x40' = 28.8 SF	41	6
120'x40' = 32 SF	46	6

NOTE: SIZE ABOVE INDICATES LENGTHS OF BUILDING GROUPS (NOT A SINGLE BUILDING)

KEY NOTES

1. TIE PLATE (SEE SCHEDULE FOR QUANTITY)
2. GALVANIZED PIPE (SEE WOOD PAD FOUNDATION DETAILS SHEET)

GENERAL NOTES:

1. DESIGN ALLOWABLE SOIL BEARING PRESSURE - 1000 PSF
2. ALL FOUNDATION LUMBER SHALL BE HF #2 ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT" ALL FOUNDATION FASTENERS SHALL BE CORROSION RESISTANT PER 2304.9.5
3. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
4. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1
5. MINIMUM (3) SIDES FOR CROSS VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED

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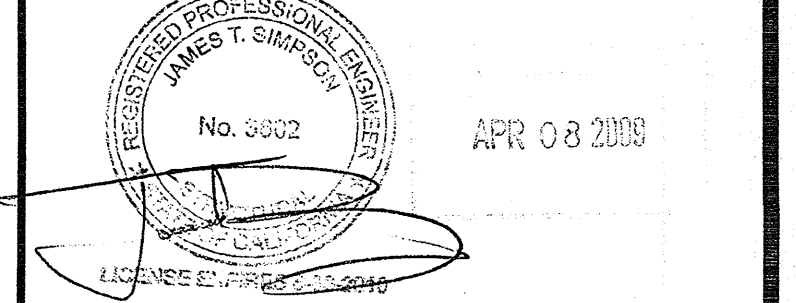
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MSI STOCKPILE

SHEET TITLE:
**WOOD PAD FOUNDATION PLAN
PLYWOOD FLOOR**

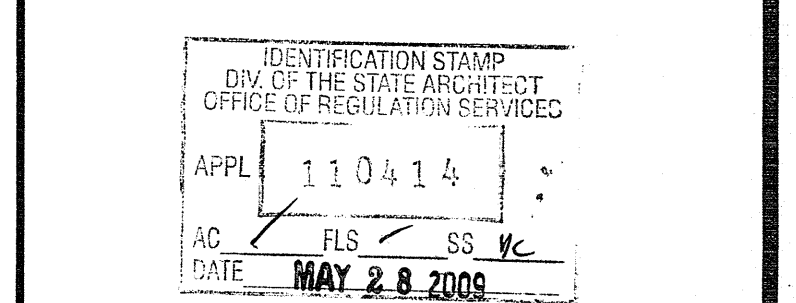
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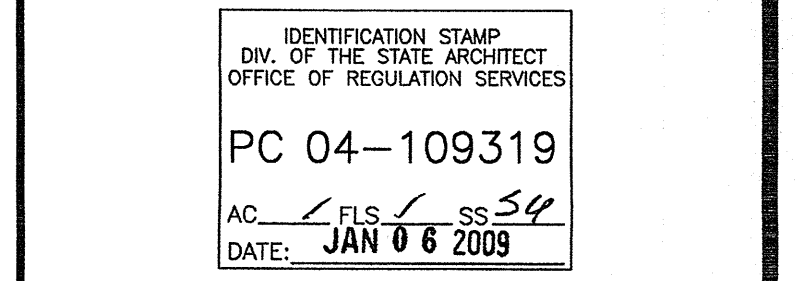
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PROJECT NO.: 09-****
DRAWN BY: MA
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DATE: 05-22-09

SHEET NUMBER

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GENERAL NOTES

GENERAL NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH THE 2007 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2, CHAPTER 4, GROUP 1, LATEST REVISIONS, ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS". SEE ESPECIALLY IR 16-1. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (UNO).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS.
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR 3. CONSTRUCTION SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.
- TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
- PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION. NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
- ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0".
- PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
- IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:
 - INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 1704A.3.
 - INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 2, SECTION 1704A.4 & 1905A.7
- ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE 13. OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1.
- DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS.
- WHEN MODULE IS RELOCATED - DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES.

WOOD:

- STRUCTURAL FRAMING SHALL BE HEM FIR - LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
- ALL FRAMING EXCEPT AS NOTED HEM FIR #2.
- WOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-95. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4"x8" PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
- BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD AND 2005 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI.
- LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2005 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHALL BE BORED THE SAME DEPTH AND AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2005 NDS. PROVIDE WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
- WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2005 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
- WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
- WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
- STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2005 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.9.1. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2005 NDS. (SEE NAIL EQUIVALENCE BELOW.)
- NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO)

6d EQUALS .131"	- PROVIDE .136"	MIN POINT PENETRATION
8d EQUALS .131"	- PROVIDE .137"	MIN POINT PENETRATION
10d EQUALS .148"	- PROVIDE .178"	MIN POINT PENETRATION
16d EQUALS .162"	- PROVIDE .194"	MIN POINT PENETRATION
* 1 1/2" AT 2x MEMBERS		
- EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM.
- PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.8, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM APPROVAL APPROVED BY DSA. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (LP2)" OR "FOR ABOVE GROUND USE (LP2)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER LP2. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION.
- MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
- POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC. HILTI FASTENING SYSTEMS OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICBO APPROVALS.
- FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.9.5 OF CBC.
- NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.9.1.1 OF CBC.

CONCRETE:

- CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C39 AND C39. TESTING SHALL BE IN ACCORDANCE WITH CBC (CCR TITLE 24, PART 2) SECTION 1905A.6.2. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, OR NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS (38.3 m³) OF CONCRETE, OR NOT LESS THAN 2000 SQUARE FEET (186 m²) OF SURFACE AREA FOR SLABS OR WALLS. ADDITIONAL SAMPLES FOR SEVEN-DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINNING OF THE CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
- CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING, DEICING CHEMICALS OR OTHER EXPOSURE CONDITIONS SHALL COMPLY WITH SECTION 1804A.2.1 THROUGH 1804A.2.3.**
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318 LATEST EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHER - WISE ON THESE DRAWINGS.
- AGGREGATE SHALL CONFORM TO ASTM C33 AND CBC SECTION 1903A.3.
- CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II. SEE ALSO REQUIREMENTS OF CBC SECTION 1903A.1.
- REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 40 UNLESS OTHERWISE NOTED.
- WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
- WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE CBC AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST EDITION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE .75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1704A.4.2, TITLE 24, PART 2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC AND ACI STANDARD 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- LAP SPLICES FOR REINFORCING BARS SHALL BE 50 BAR DIAMETERS OR 18" MINIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TIED TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE LENGTH. HOOKS AND BENDS SHALL BE CBC STANDARD PER CCR TITLE 24, PART 2, SECTION 1907A.1 THROUGH 1907A.3 UNLESS SHOWN OTHERWISE. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF CCR TITLE 24, PART 2, SECTION 1905A.7.
- ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
- CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH CBC SECTION 1906A.2. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
- PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
- CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A.2. A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL SELECT THE RELATIVE AMOUNTS OF INGREDIENTS TO BE USED AS BASIC PROPORTIONS OF THE CONCRETE MIXES PROPOSED FOR USE UNDER THIS PROVISION AND TESTING SHALL BE PERFORMED IN A LABORATORY ACCEPTABLE TO THE ENFORCEMENT AGENCY. ALL GROUT SHALL BE NONMETALLIC NON-SHRINK HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
- OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
- ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1929A. A PLACING RECORD SHALL BE MAIN-TAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
- BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY. COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1704A.4.4.
- ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- MAX CONC SLUMP TO BE 4"±1"

CONCRETE FOUNDATION:

- FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
- FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER TITLE 24, TABLE 1804A.2.
- THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
- CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
- PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
- FOUNDATIONS ARE DESIGNED AS FIXED FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A. (REFERENCE IR 16-1)
 - ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4" MINIMUM.

STRUCTURAL STEEL:

- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE ASTM A36 UNO.
- TOUCH-UP FIELD WELDS SHALL BE 10SS ASTM A505 GRADE B WITH MIN. YIELD STRESS OF 46,000 PSI. PIPE MEMBERS SHALL BE ASTM A53 WITH A MIN YIELD STRESS OF 35,000 PSI.
- UNO, LIGHT GAUGE STEEL PLATE (10 GAUGE AND LESS) SHALL BE GALVANIZED AND PER THE REQUIREMENTS OF ASTM A36, ASTM A446, ASTM A-1011/SS OR EQUAL WITH MINIMUM YIELD STRESS OF 33,000 PSI.
- ALL BOLTS SHALL BE ASTM A307 MACHINE BOLTS UNO.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE - STEEL, AWS D1.1, LATEST EDITION, OF THE AMERICAN WELDING SOCIETY.
- INSPECTION OF ALL WELDING SHALL BE PROVIDED, SEE #8, BELOW FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A, SECTION 2205A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
- PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM STANDARDS.
- PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1704A.3 & 2212A (CBC). ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2212A.
- WELDING SHOULD BE IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1704A.3.1.
- ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE- RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 ft-lbs AT MINUS 20 DEGREES F, AS REQ. BY SEC. 2211A.2.3 OF CBC.

PAD FOUNDATIONS: (RESTRAINED)

- FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
- FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 16-1.
- THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS.
- CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
- PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
- VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
- FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 16-1, SUBSTANDARD FOUNDATIONS
 - ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"Ø HOT-DIPPED GALVANIZED STANDARD WEIGHT STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'-0" OC AT SIDEWALLS AND 2'-0" FROM EACH CORNER IN BOTH DIRECTIONS.
 - STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION.
 - ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4" MINIMUM.
- FINISH GRADES SHALL BE WITHIN MAX 18" BELOW BOTTOM OF FLOOR JOISTS WITHOUT EXCEPTION.
- THE PLATE WHICH ATTACHES THE FLOOR BEAM TO THE WOOD FOUNDATION AND THAT IS EXPOSED TO THE WEATHER IS TO BE GALVANIZED. TEK SCREWS THAT ATTACH THE TIE PLATE TO THE FLOOR BEAM ARE TO BE HOT-DIPPED GALVANIZED. ANCHOR BOLTS AND MECHANICAL EXPANSION ANCHORS WHICH ARE EXPOSED TO THE WEATHER ARE TO BE PAINTED WITH ZINC-BASED PAINT.

ACCEPTABLE FASTENERS / ICC REPORTS:

- SHOT PIN THROUGH LIGHT GAUGE STEEL AND NORMAL-WEIGHT CONCRETE: ICC REPORT # ESR-1663
- SHOT PIN THROUGH LIGHT GAUGE STEEL: ICC REPORT # ESR-2379
- METAL B-DECK FOR CONCRETE FLOORS: ICC REPORT # ESR-2078P
- WOOD/METAL JAMB STUDS TO STEEL COLUMN: ICC REPORT # ESR-2269
- SHOT PIN CONNECTION FOR METAL B-DECK: ICC REPORT # ER-3829
- SHOT PIN CONNECTION FOR METAL B-DECK: ICC REPORT # ESR-2197

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING:

- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MIL THICKNESS FORMAT CONVERSION CHART		
GAUGE FORMAT	DESIGN THICKNESS	MILS
25	0.0188	18
22	0.0283	27
20	0.0346	33
18	0.0451	43
16	0.0566	54
14	0.0713	68
12	0.1017	97
10	0.1242	118

STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STEEL STUD FORMAT CONVERSION CHART	
ORDINARY FORMAT	SSMA FORMAT
C-3" x 1 5/8" x 20 GA (TRACK OR STUD)	300T162-33 (TRACK) 300S162-33 (STUD)
C-3" x 1 5/8" x 18 GA (TRACK OR STUD)	300T162-43 (TRACK) 300S162-43 (STUD)
C-3" x 1 5/8" x 16 GA (TRACK OR STUD)	300T162-54 (TRACK) 300S162-54 (STUD)
C-3 1/2" x 1 5/8" x 20 GA (TRACK OR STUD)	350T162-33 (TRACK) 350S162-33 (STUD)
C-3 1/2" x 1 5/8" x 18 GA (TRACK OR STUD)	350T162-43 (TRACK) 350S162-43 (STUD)
C-3 1/2" x 1 5/8" x 16 GA (TRACK OR STUD)	350T162-54 (TRACK) 350S162-54 (STUD)
C-4" x 1 5/8" x 20 GA (TRACK OR STUD)	400T162-33 (TRACK) 400S162-33 (STUD)
C-4" x 1 5/8" x 18 GA (TRACK OR STUD)	400T162-43 (TRACK) 400S162-43 (STUD)
C-4" x 1 5/8" x 16 GA (TRACK OR STUD)	400T162-54 (TRACK) 400S162-54 (STUD)
C-4 1/2" x 1 5/8" x 20 GA (TRACK OR STUD)	450T162-33 (TRACK) 450S162-33 (STUD)
C-4 1/2" x 1 5/8" x 18 GA (TRACK OR STUD)	450T162-43 (TRACK) 450S162-43 (STUD)
C-4 1/2" x 1 5/8" x 16 GA (TRACK OR STUD)	450T162-54 (TRACK) 450S162-54 (STUD)
C-5" x 1 5/8" x 20 GA (TRACK OR STUD)	500T162-33 (TRACK) 500S162-33 (STUD)
C-5" x 1 5/8" x 18 GA (TRACK OR STUD)	500T162-43 (TRACK) 500S162-43 (STUD)
C-5" x 1 5/8" x 16 GA (TRACK OR STUD)	500T162-54 (TRACK) 500S162-54 (STUD)
C-5 1/2" x 1 5/8" x 20 GA (TRACK OR STUD)	550T162-33 (TRACK) 550S162-33 (STUD)
C-5 1/2" x 1 5/8" x 18 GA (TRACK OR STUD)	550T162-43 (TRACK) 550S162-43 (STUD)
C-5 1/2" x 1 5/8" x 16 GA (TRACK OR STUD)	550T162-54 (TRACK) 550S162-54 (STUD)
C-6" x 1 5/8" x 20 GA (TRACK OR STUD)	600T162-33 (TRACK) 600S162-33 (STUD)
C-6" x 1 5/8" x 18 GA (TRACK OR STUD)	600T162-43 (TRACK) 600S162-43 (STUD)
C-6" x 1 5/8" x 16 GA (TRACK OR STUD)	600T162-54 (TRACK) 600S162-54 (STUD)
C-6 1/2" x 1 5/8" x 20 GA (TRACK OR STUD)	650T162-33 (TRACK) 650S162-33 (STUD)
C-6 1/2" x 1 5/8" x 18 GA (TRACK OR STUD)	650T162-43 (TRACK) 650S162-43 (STUD)
C-6 1/2" x 1 5/8" x 16 GA (TRACK OR STUD)	650T162-54 (TRACK) 650S162-54 (STUD)
C-7" x 1 5/8" x 20 GA (TRACK OR STUD)	700T162-33 (TRACK) 700S162-33 (STUD)
C-7" x 1 5/8" x 18 GA (TRACK OR STUD)	700T162-43 (TRACK) 700S162-43 (STUD)
C-7" x 1 5/8" x 16 GA (TRACK OR STUD)	700T162-54 (TRACK) 700S162-54 (STUD)
C-7 1/2" x 1 5/8" x 20 GA (TRACK OR STUD)	750T162-33 (TRACK) 750S162-33 (STUD)
C-7 1/2" x 1 5/8" x 18 GA (TRACK OR STUD)	750T162-43 (TRACK) 750S162-43 (STUD)
C-7 1/2" x 1 5/8" x 16 GA (TRACK OR STUD)	750T162-54 (TRACK) 750S162-54 (STUD)
C-8" x 1 5/8" x 20 GA (TRACK OR STUD)	800T162-33 (TRACK) 800S162-33 (STUD)
C-8" x 1 5/8" x 18 GA (TRACK OR STUD)	800T162-43 (TRACK) 800S162-43 (STUD)
C-8" x 1 5/8" x 16 GA (TRACK OR STUD)	800T162-54 (TRACK) 800S162-54 (STUD)

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) HOT ROLLED MEMBER FORMAT CONVERSION CHART	
ORDINARY FORMAT	AISC FORMAT
C-6" x 8.2 LB	C 6x8.2
C-7" x 9.8 LB	C 7x9.8
C-10" x 15.3 LB	C 10x15.3
L-1 1/2" x 1 1/2" x 3/16"	L 1-1/2x1-1/2x3/16
L-2" x 2" x 3/16"	L 2x2x3/16
L-3" x 3" x 3/8"	L 3x3x3/8
L-5" x 3" x 3/8"	L 5x3x3/8

MODULAR STRUCTURES INTERNATIONAL, INC.

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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

STRUCTURAL NOTES AND
SPECIFICATIONS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

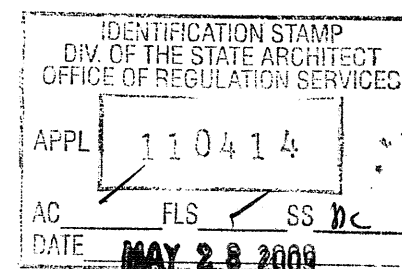


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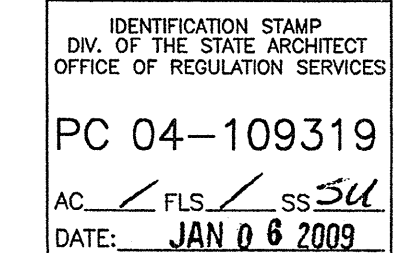
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS
REQUIRED



REVISIONS

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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER

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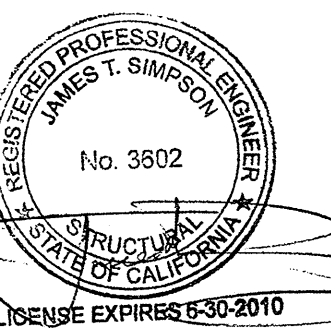
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MSI STOCKPILE

SHEET TITLE:

BUILDING SECTIONS
PLYWOOD FLOOR

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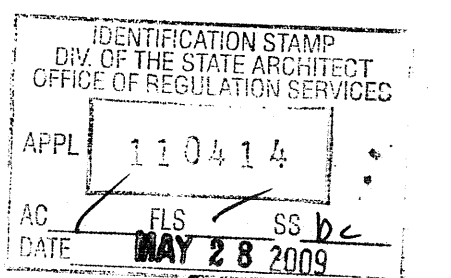


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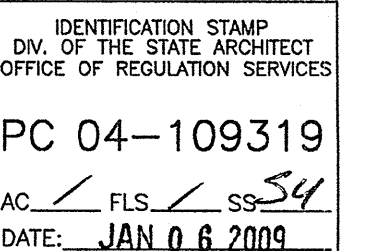
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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



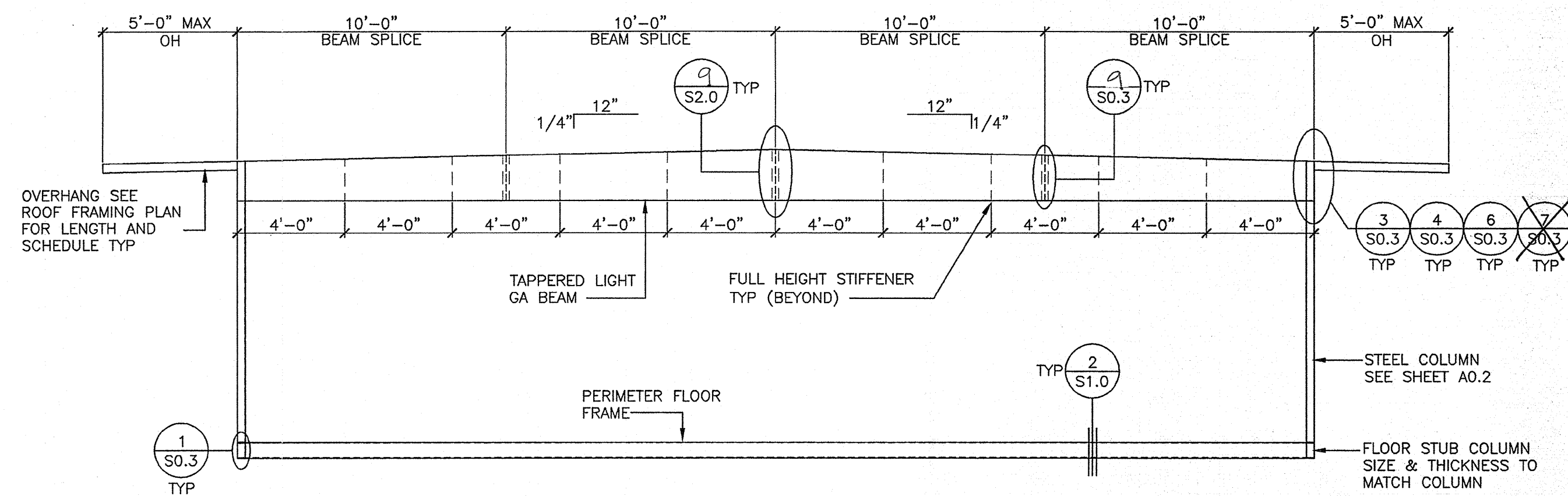
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CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

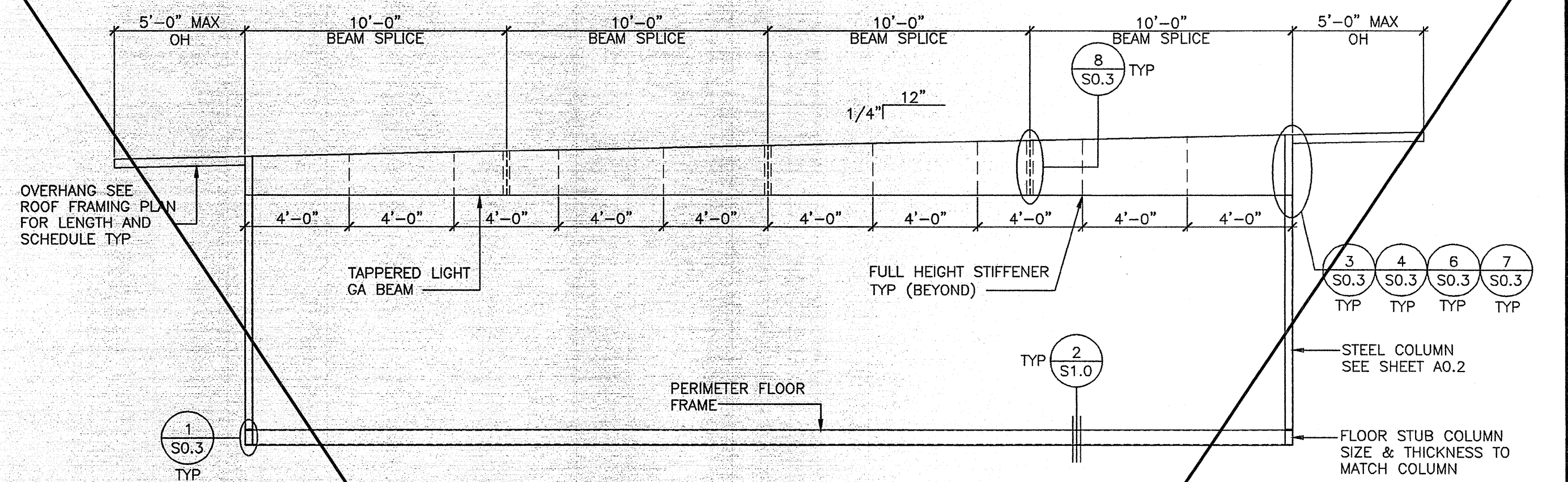
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SCALE: AS NOTED
DATE: 05-22-09
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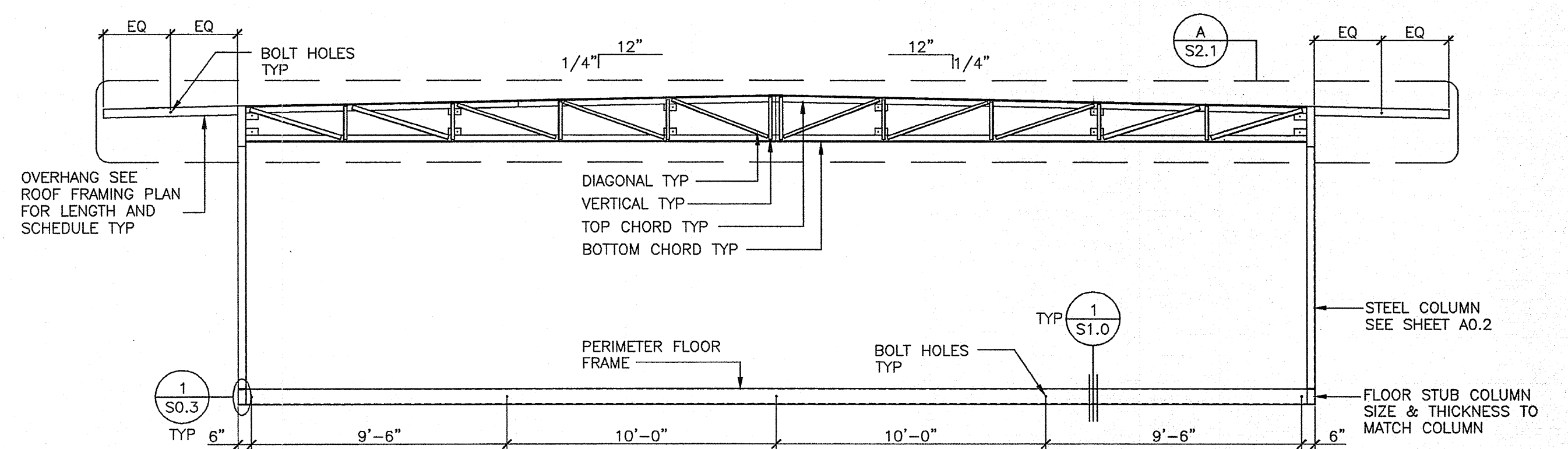
DUAL SLOPE SIDEWALL SECTION

NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY



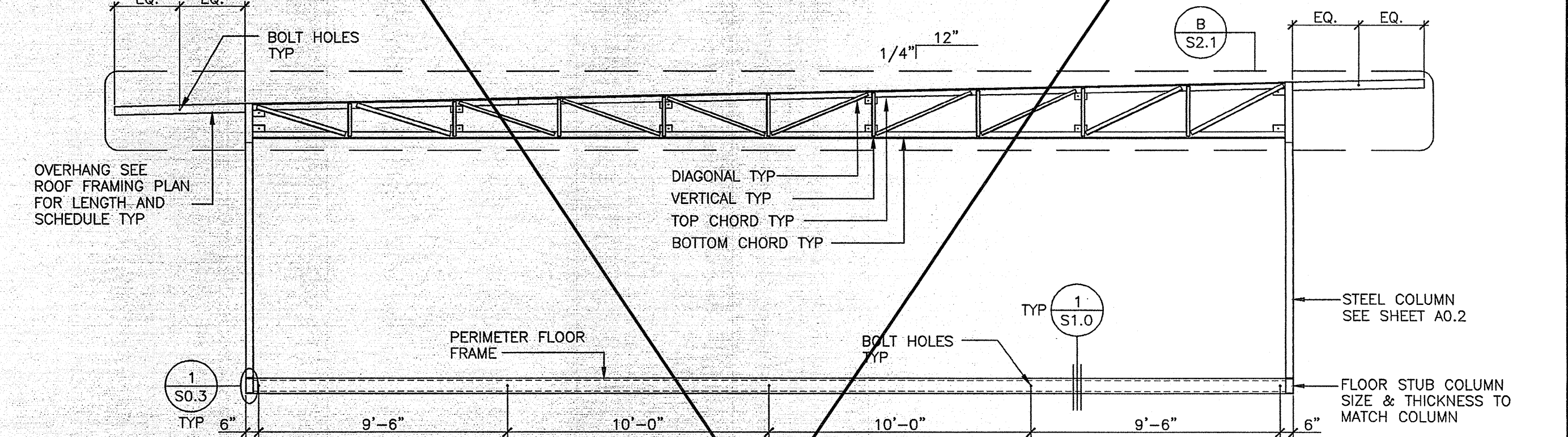
MONO SLOPE SIDEWALL SECTION

NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY



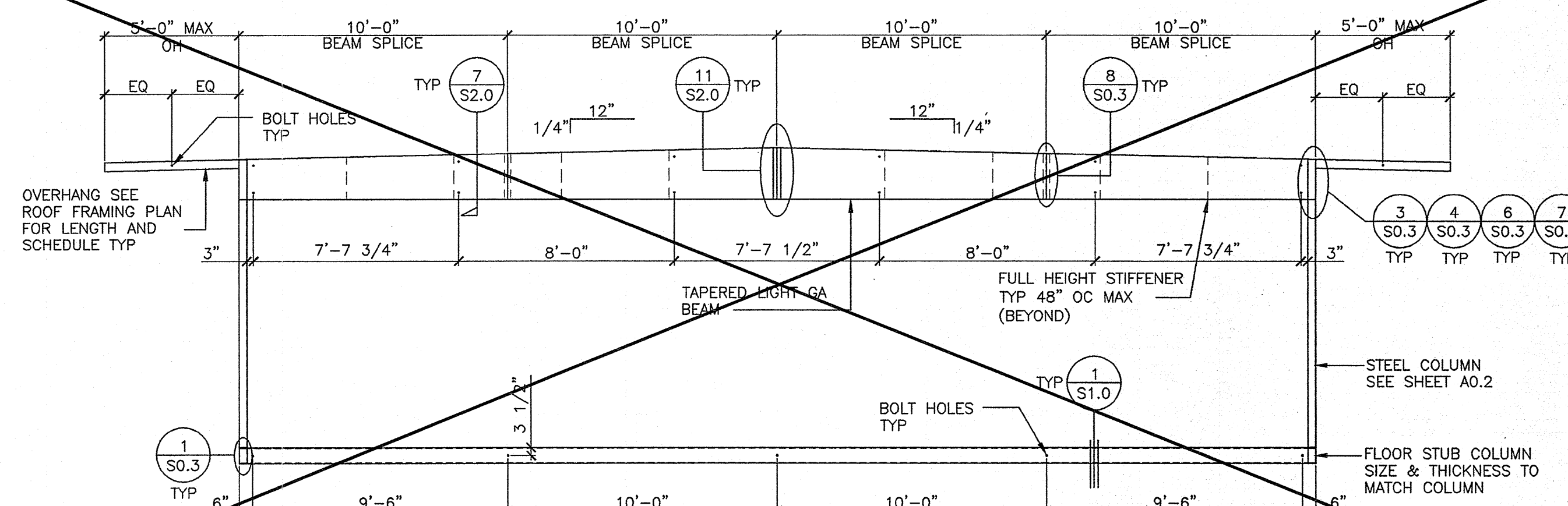
DUAL SLOPE ROOF MODLINE SECTION

NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY



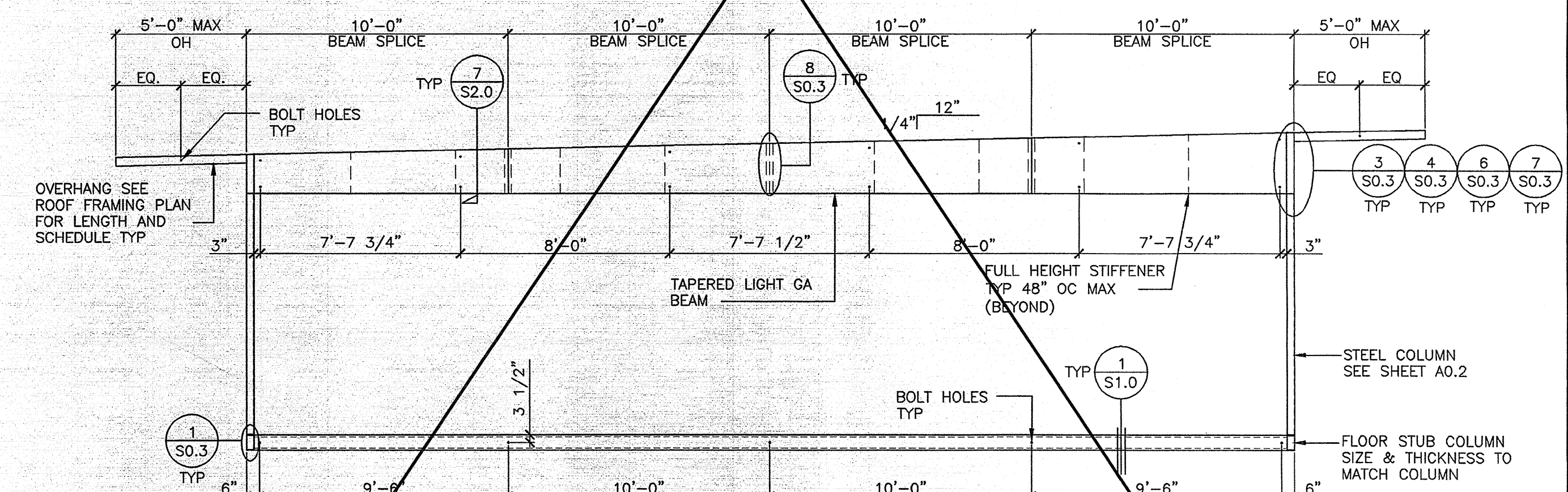
MONO SLOPE ROOF MODLINE SECTION

NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY



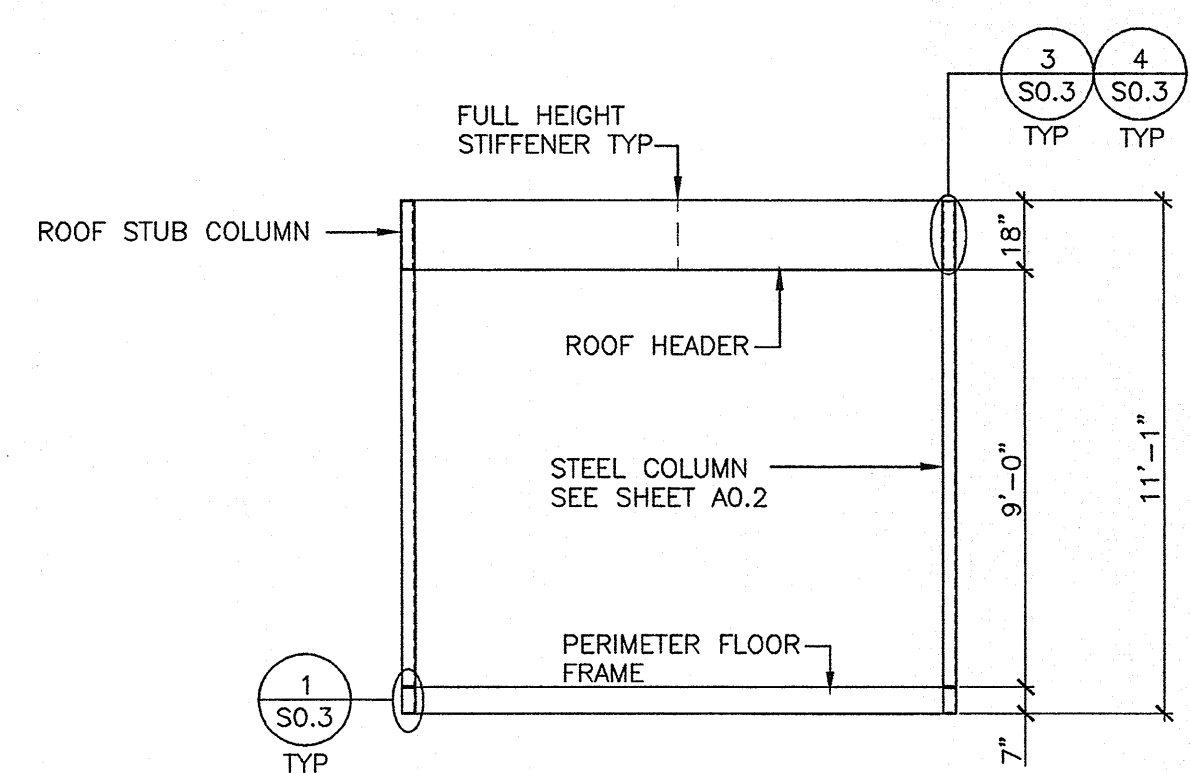
ALTERNATE DUAL SLOPE MODLINE SECTION

NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

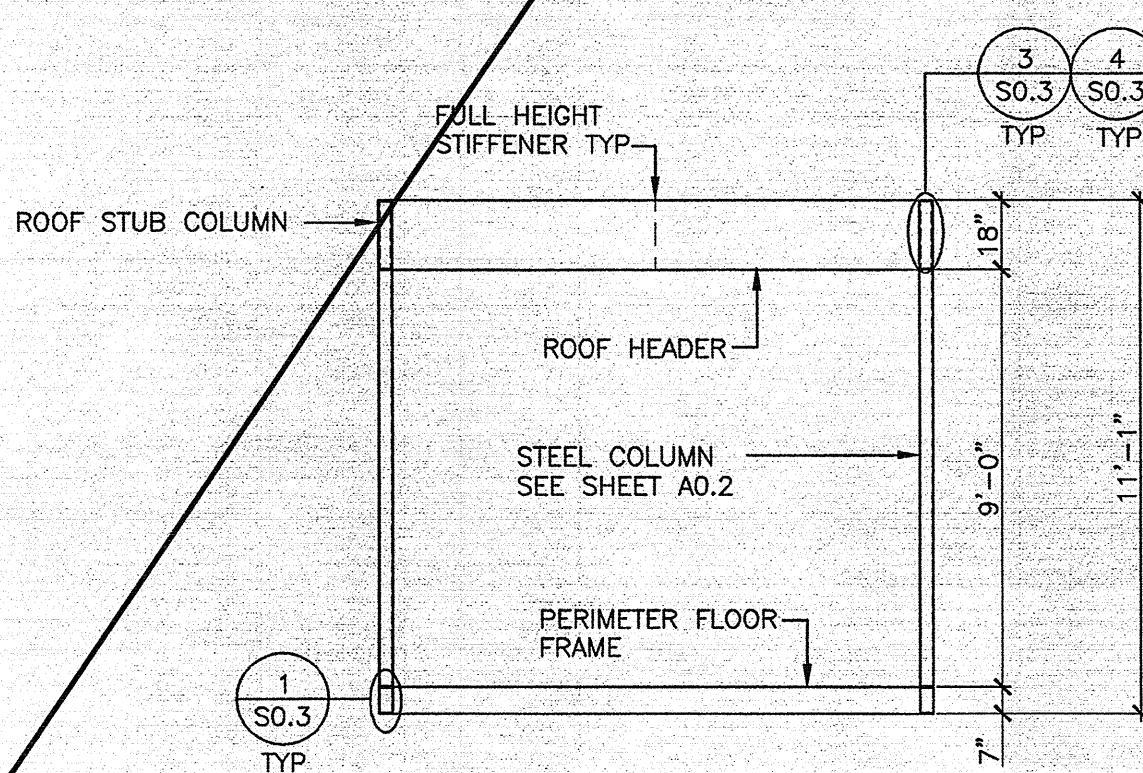


ALTERNATE MONO SLOPE INTERIOR ROOF SECTION

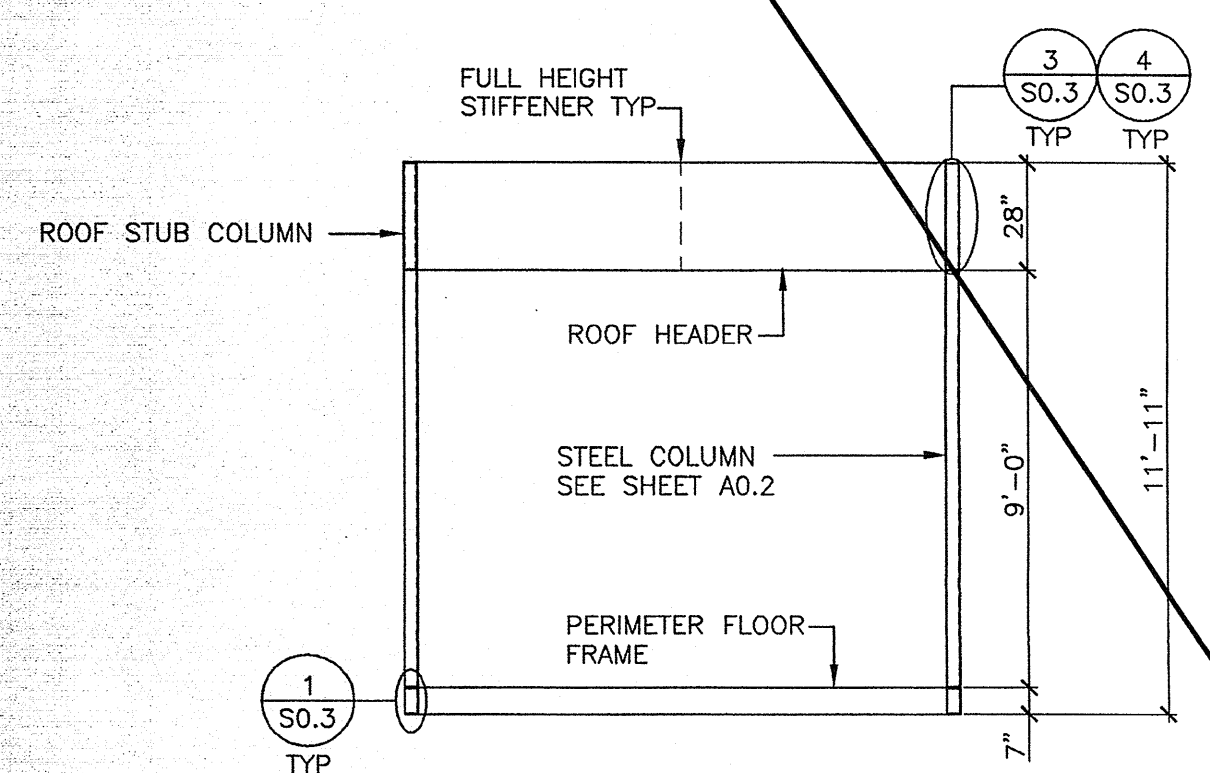
NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY



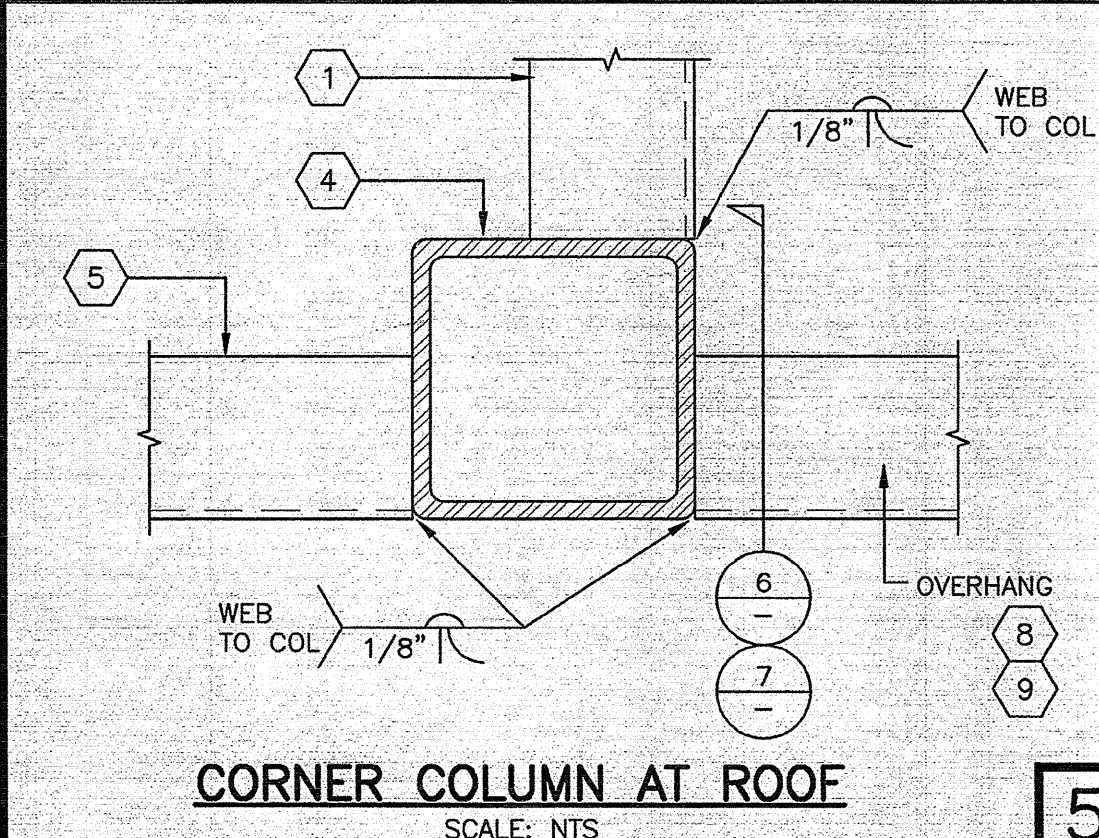
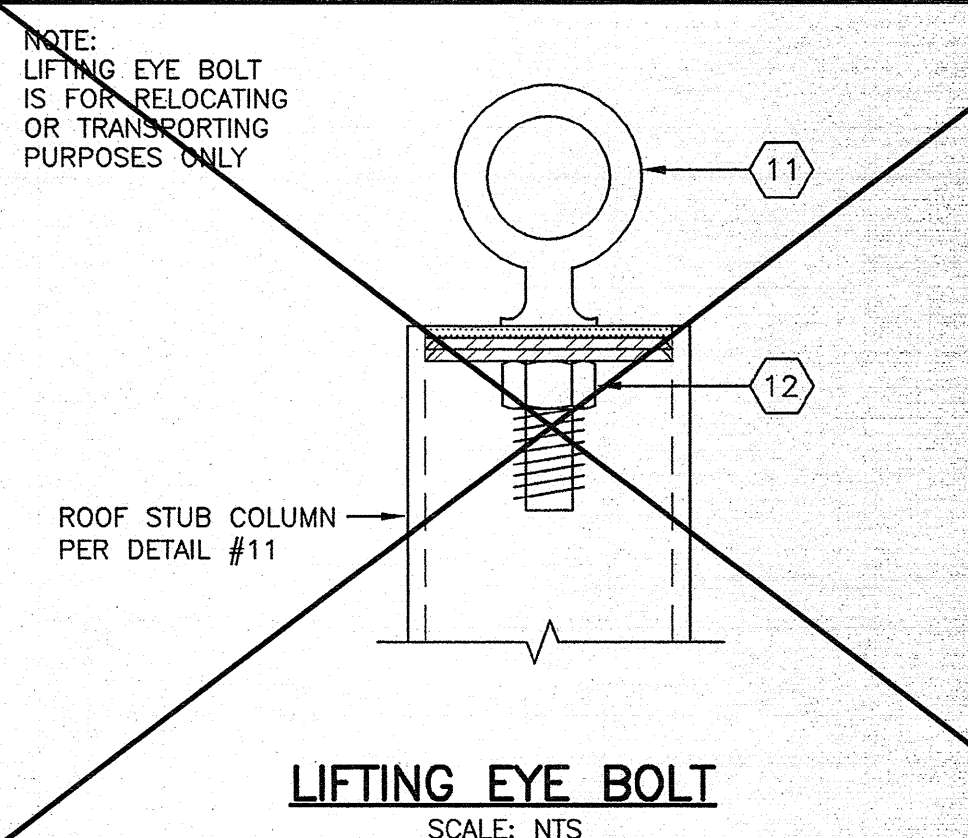
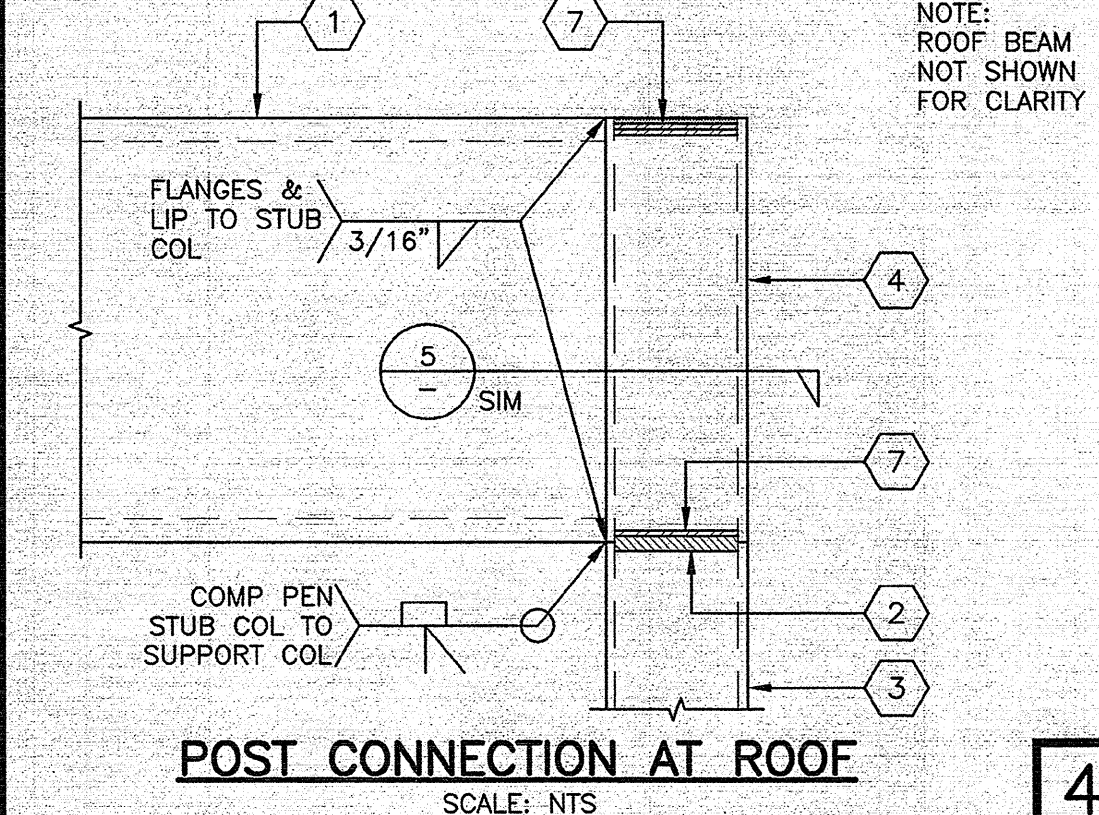
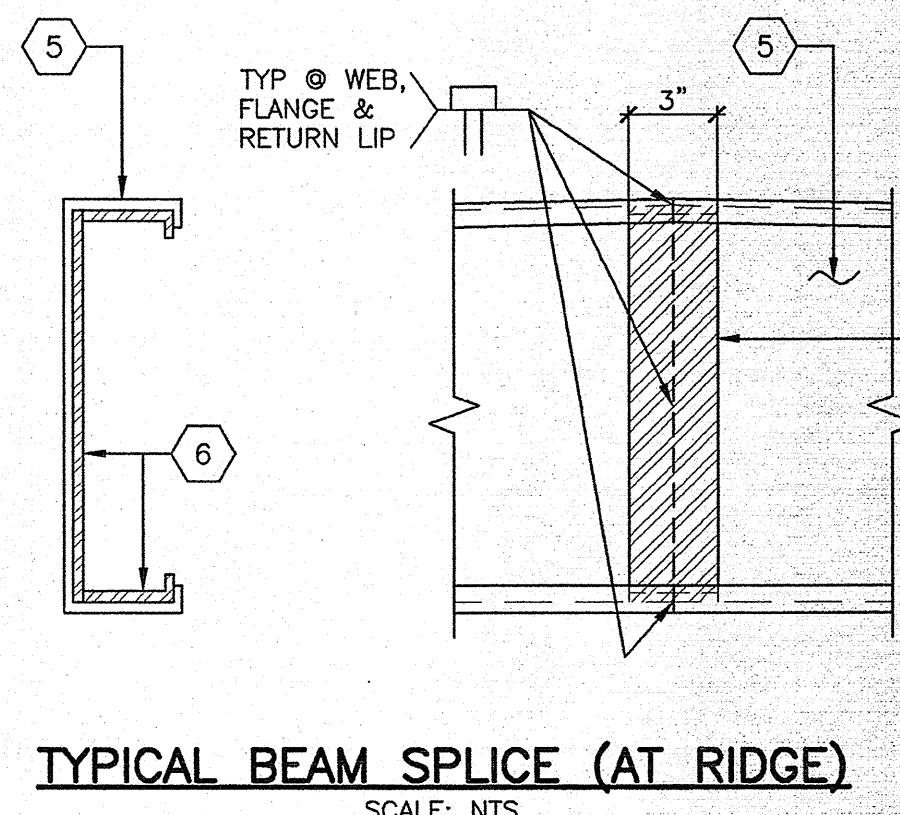
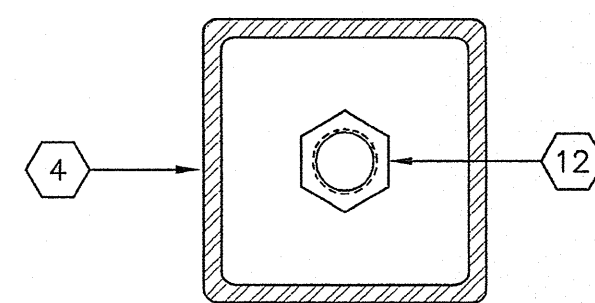
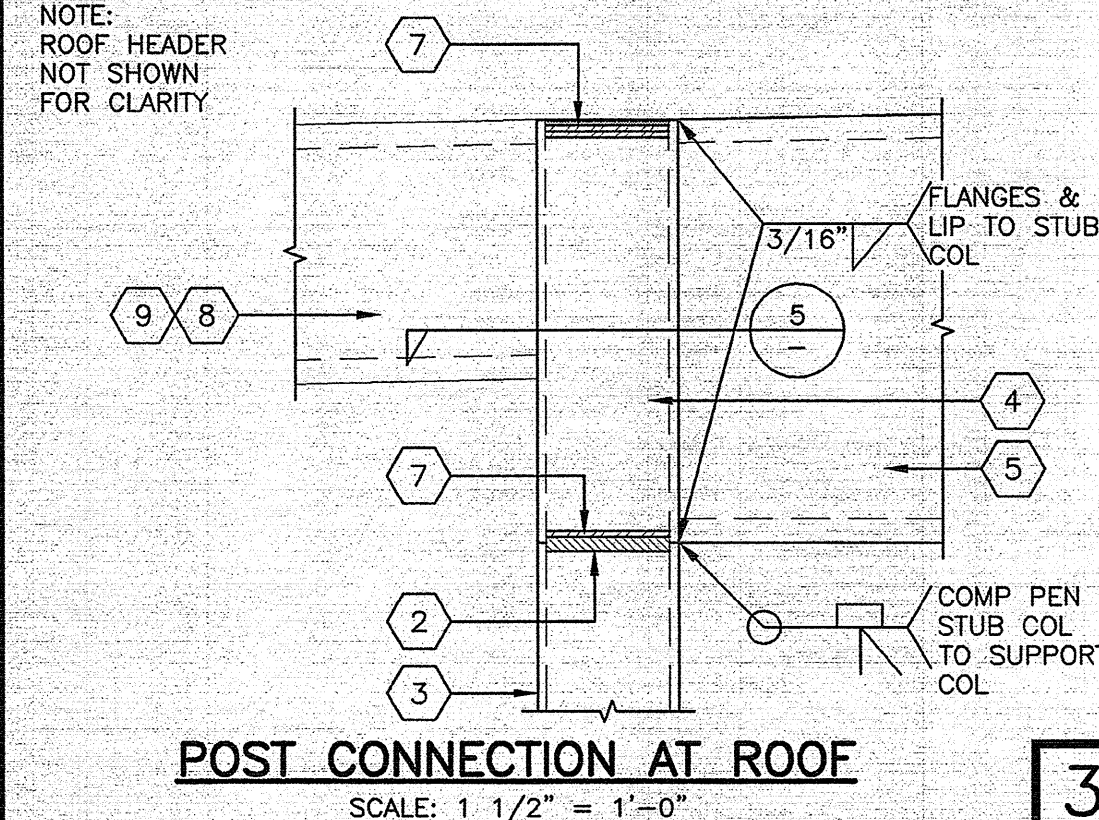
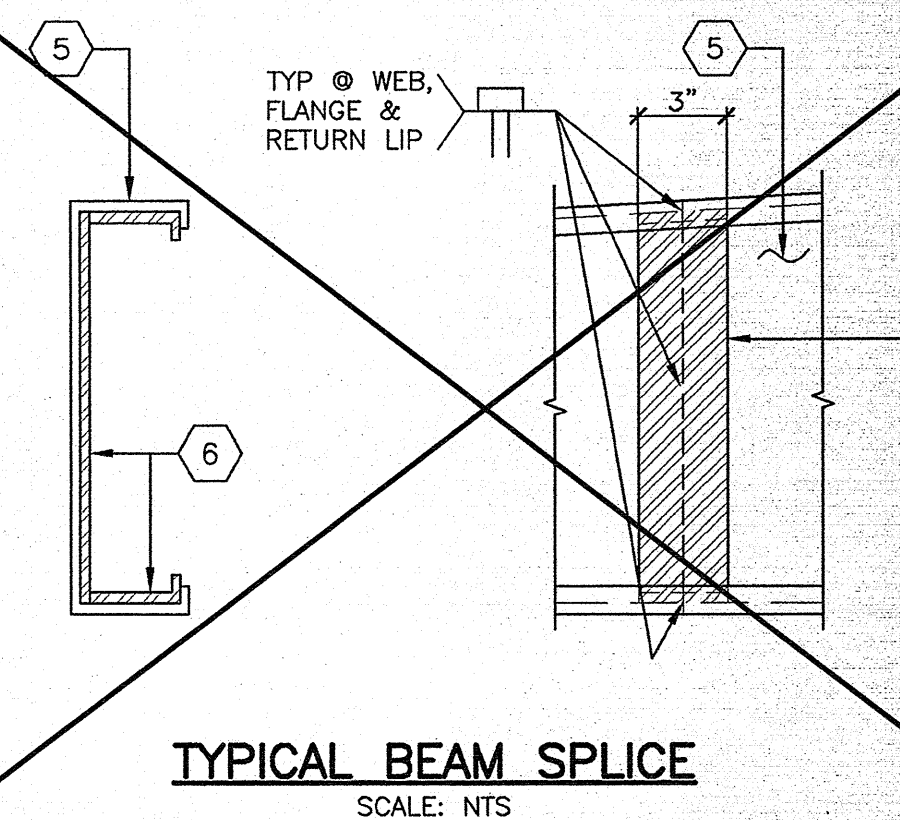
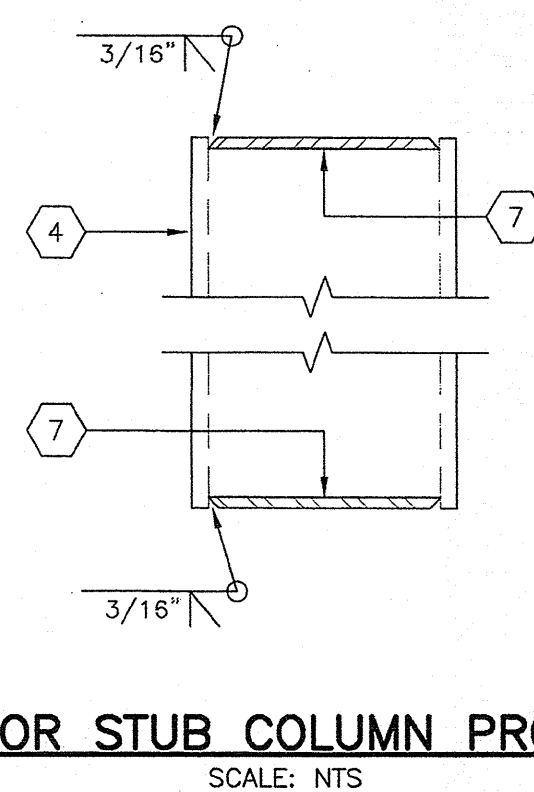
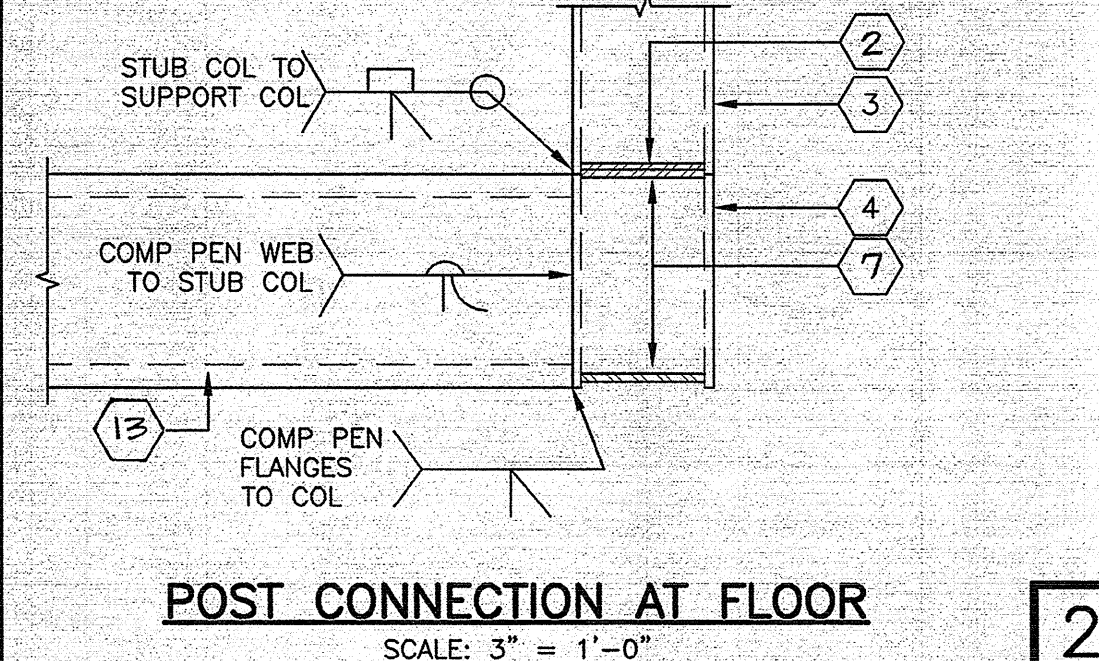
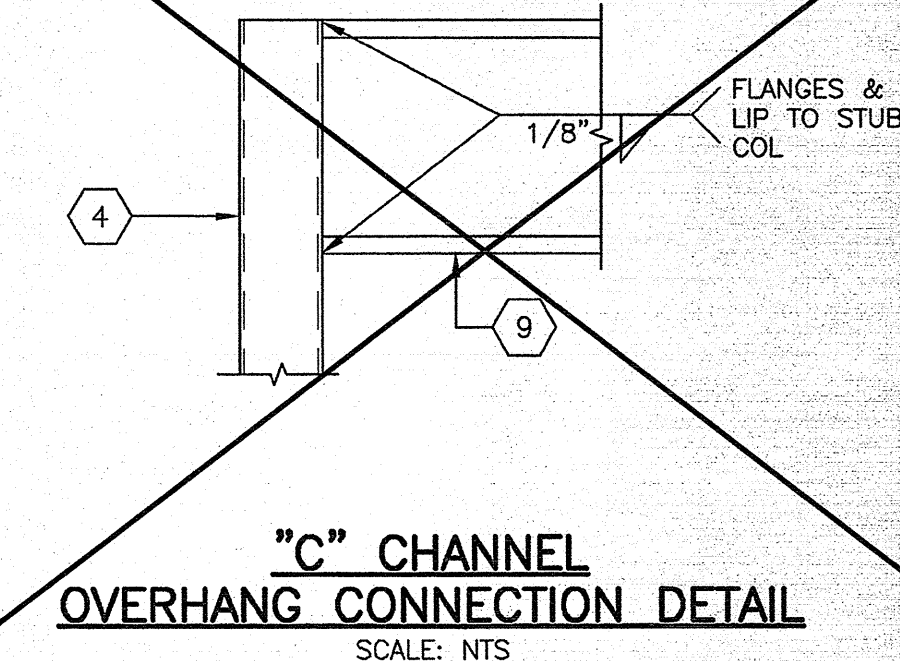
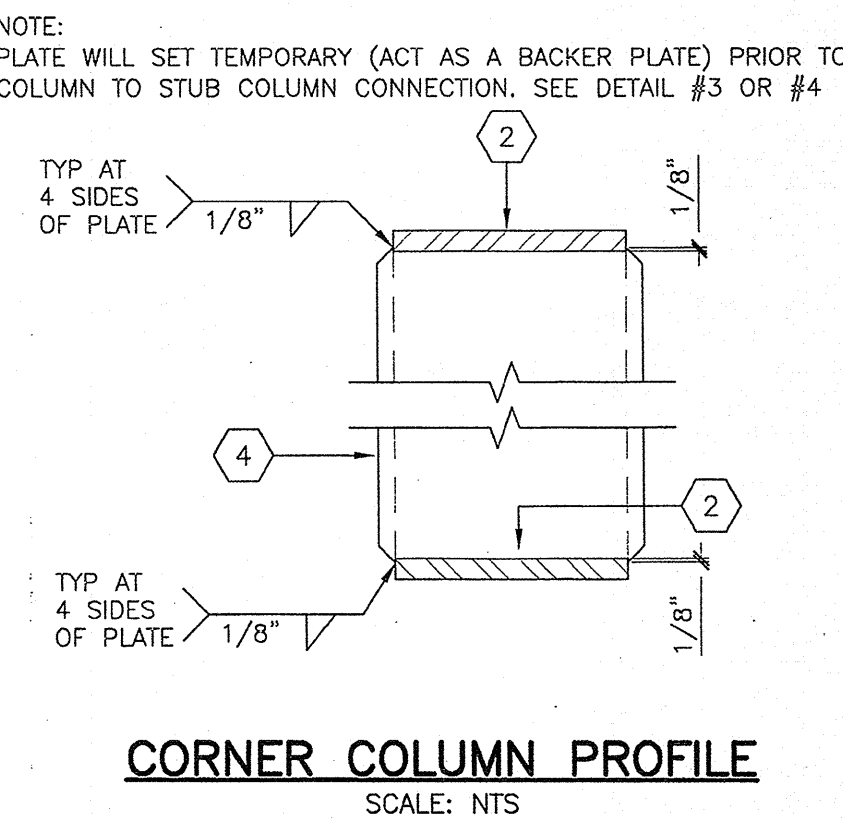
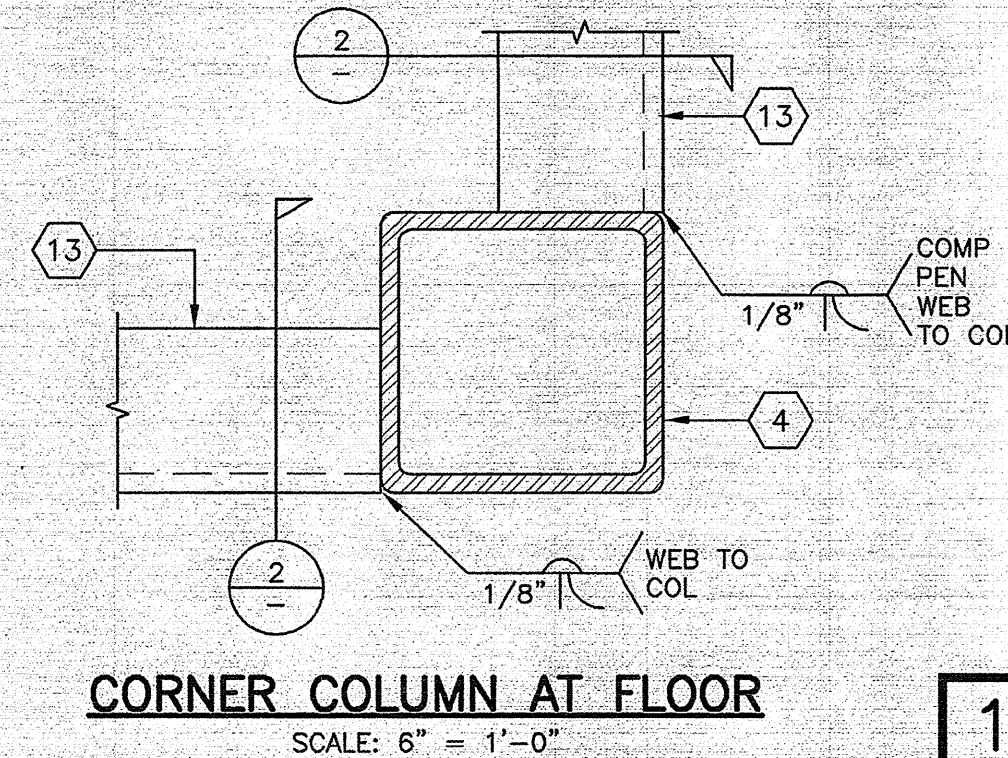
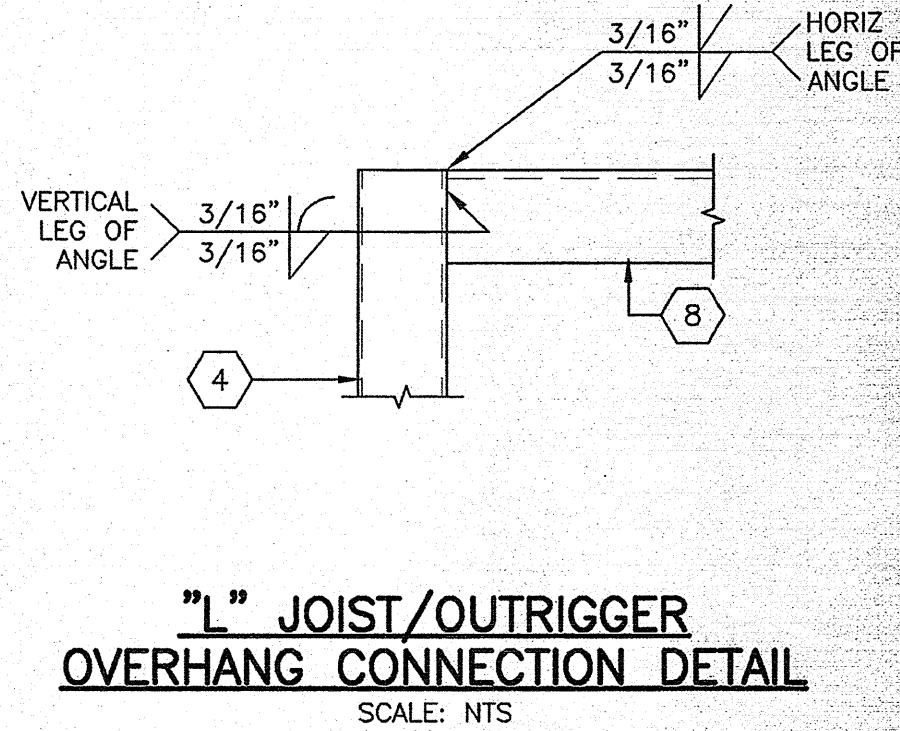
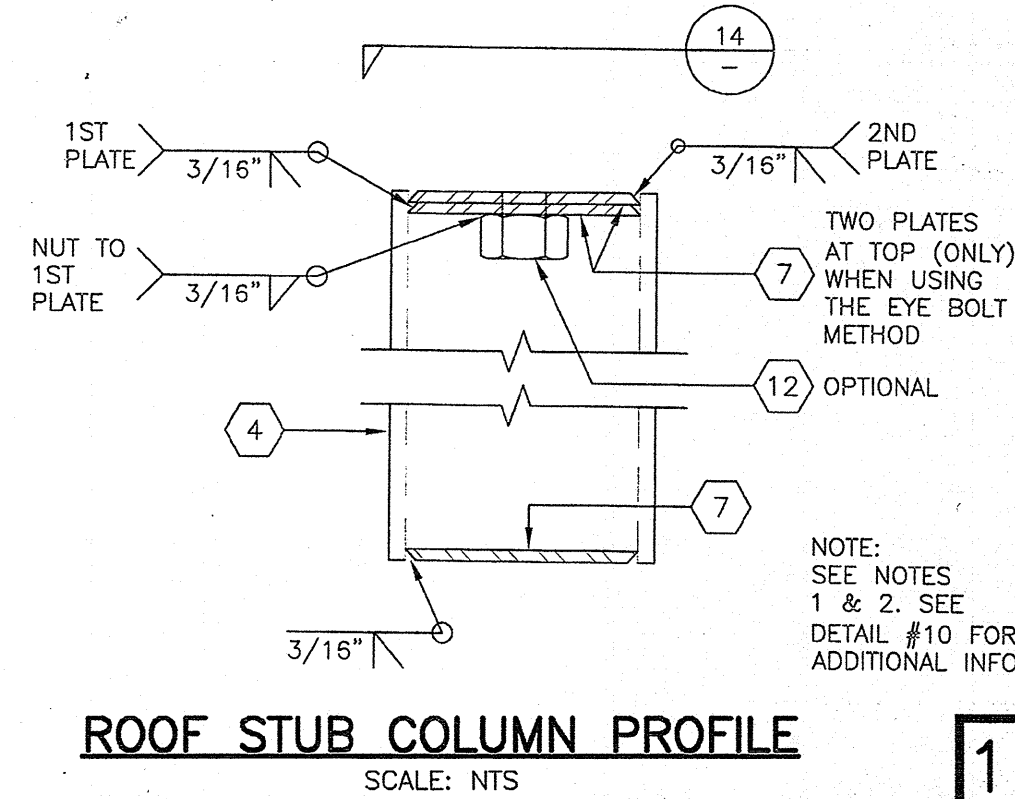
DUAL SLOPE ENDWALL SECTION



MONO SLOPE ENDWALL SECTION (LOW END)



MONO SLOPE ENDWALL SECTION (HIGH END)



KEY NOTES

1. ROOF HEADER/BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
2. 3/8" PLATE FITTED INSIDE COLUMN AND WELD IN PLACE
3. COLUMN (SEE DETAIL #12)
4. STUB COLUMN, SAME SIZE AND THICKNESS AS COLUMN SEE DETAIL #11 (FOR ROOF) AND DETAIL #13 (FLOOR)
5. TAPERED ROOF BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
6. 10 GA BACK-UP PLATE FOR BEAM SPLICE
7. 1/4" PLATE FITTED INSIDE COLUMN AND WELDED IN PLACE
8. OVERHANG ANGLE MEMBER (SEE DETAIL 6)
9. OVERHANG C-CHANNEL MEMBER (SEE DETAIL 7)
10. 1/4" FULL DEPTH STIFFENER INSIDE SPLICE LOCATIONS AT ROOF BEAM
11. 1"Ø LIFTING EYE BOLT
12. LIFTING EYE BOLT NUT
13. FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING PLAN)

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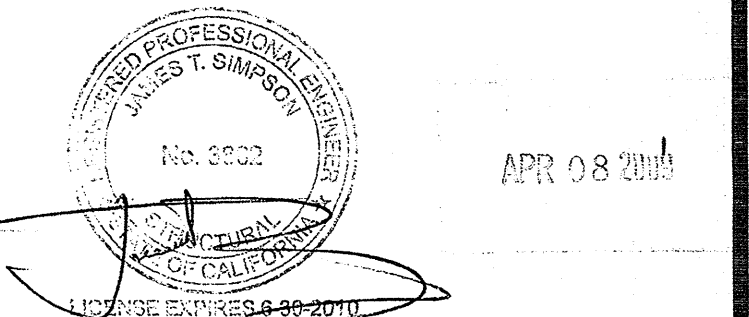
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

TYPICAL STRUCTURAL DETAILS

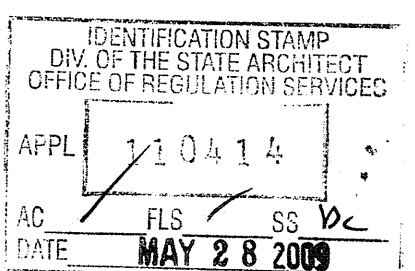
MFR. STRUCTURAL ENGINEER OF RECORD ON PC



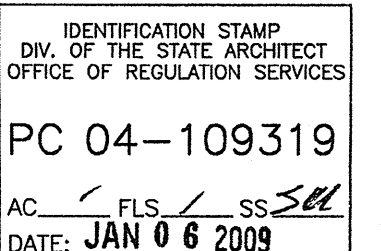
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ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



GENERAL NOTES

1. DRILL HOLES AT PLATES FOR THE LIFTING EYE BOLT SCREW
2. INSTALL LIFTING EYE BOLT NUT TO 1ST PLATES PRIOR TO INSTALLING THE PLATE INSIDE THE COLUMN

REVISIONS

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PROJECT NO.: 09-****

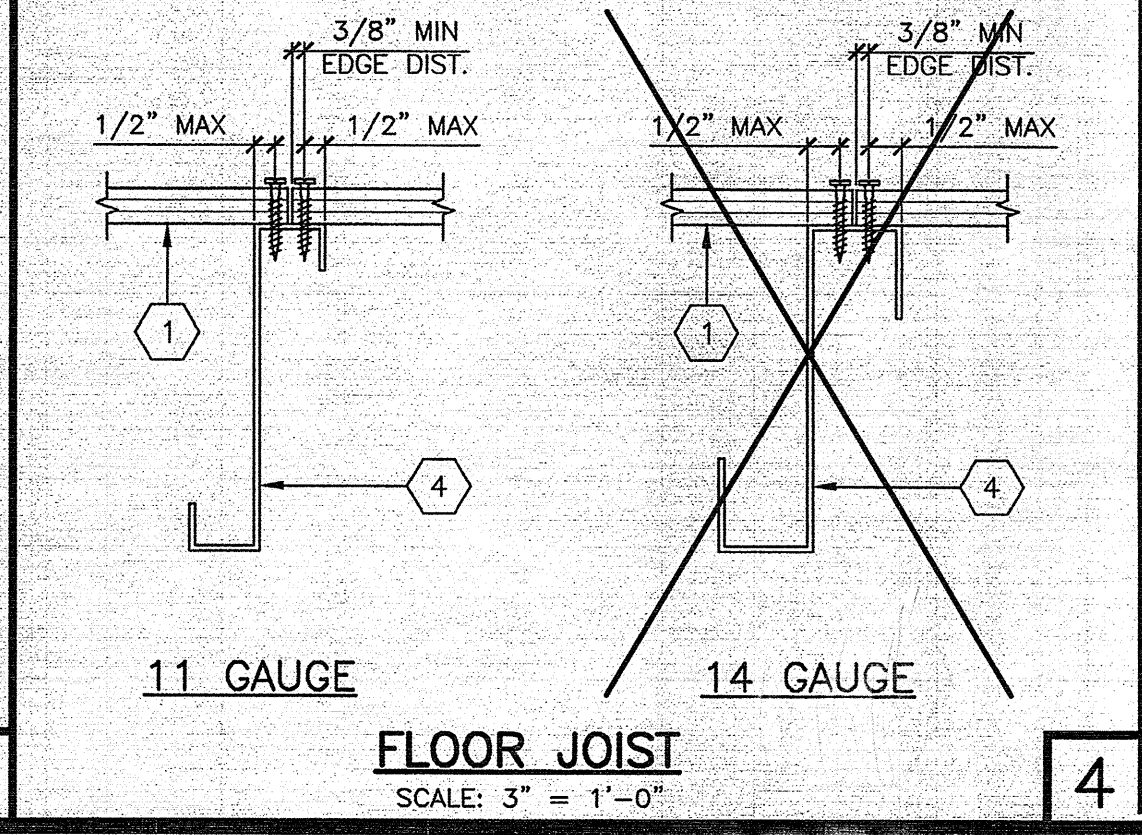
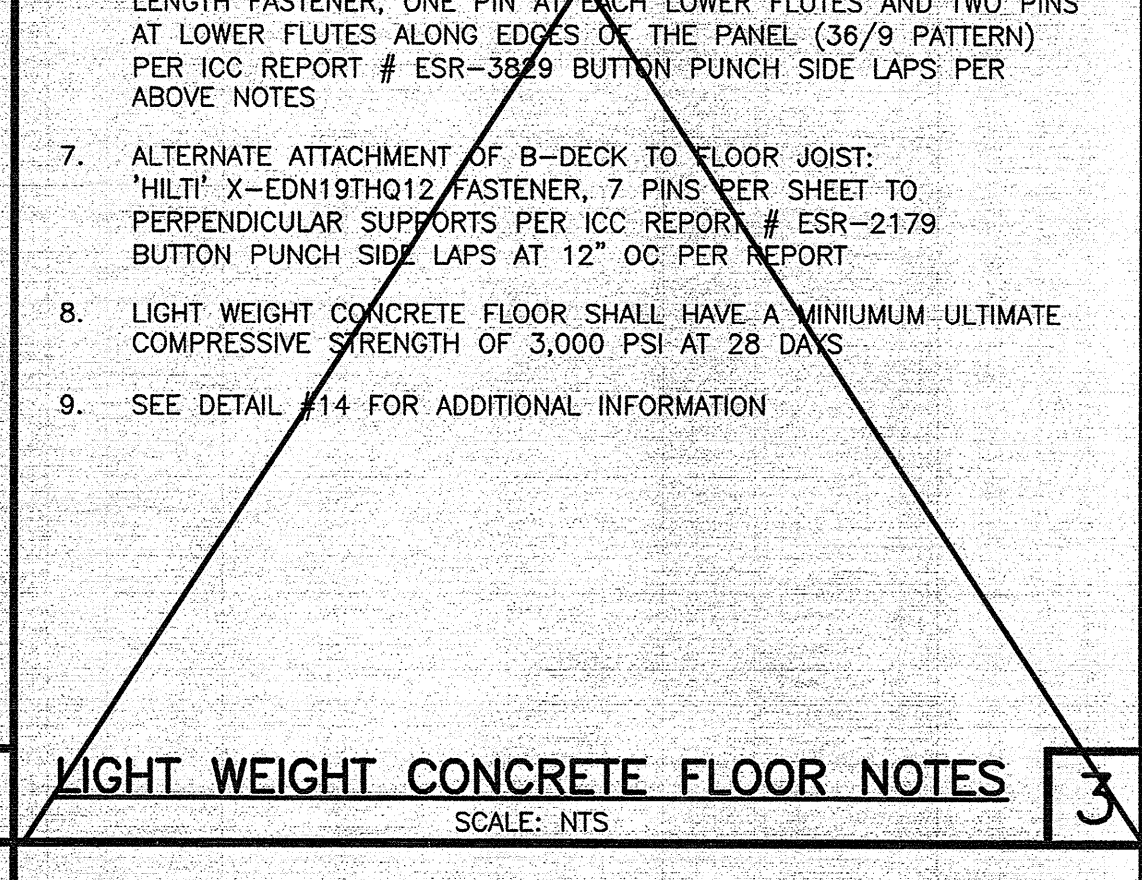
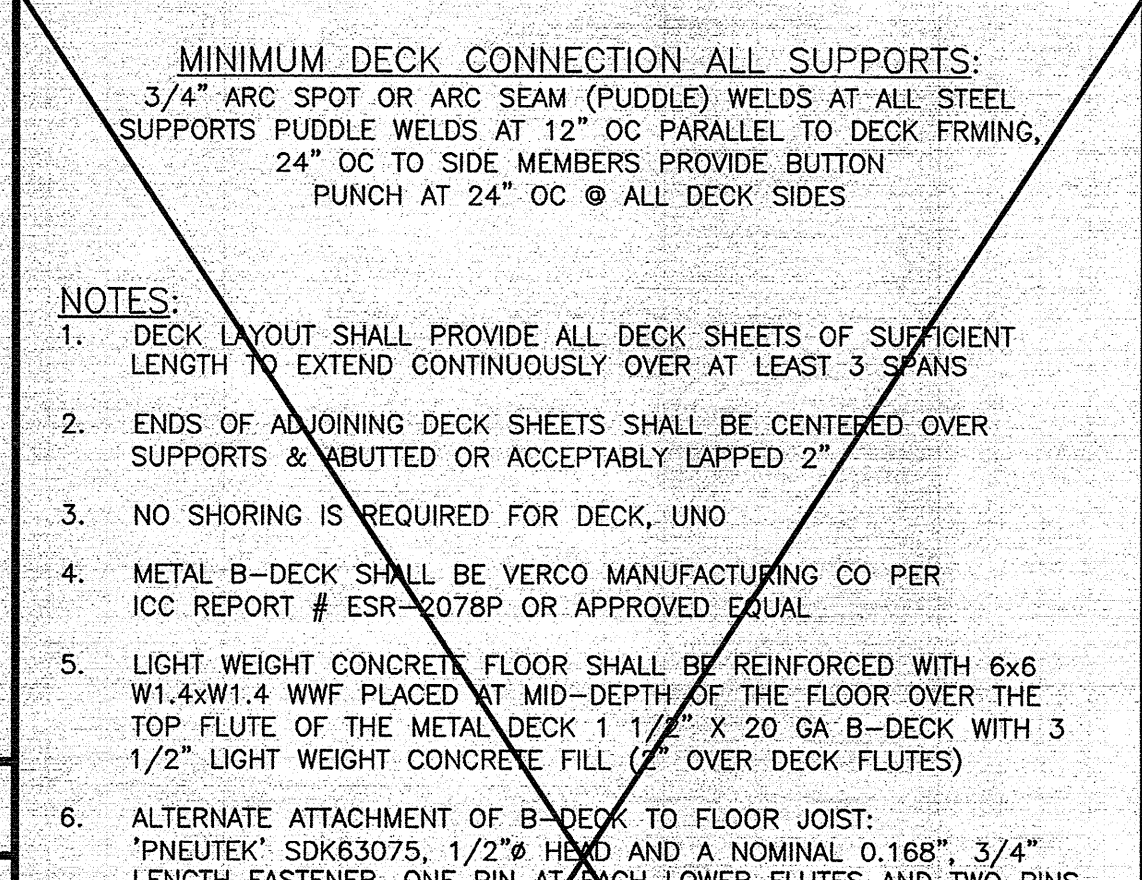
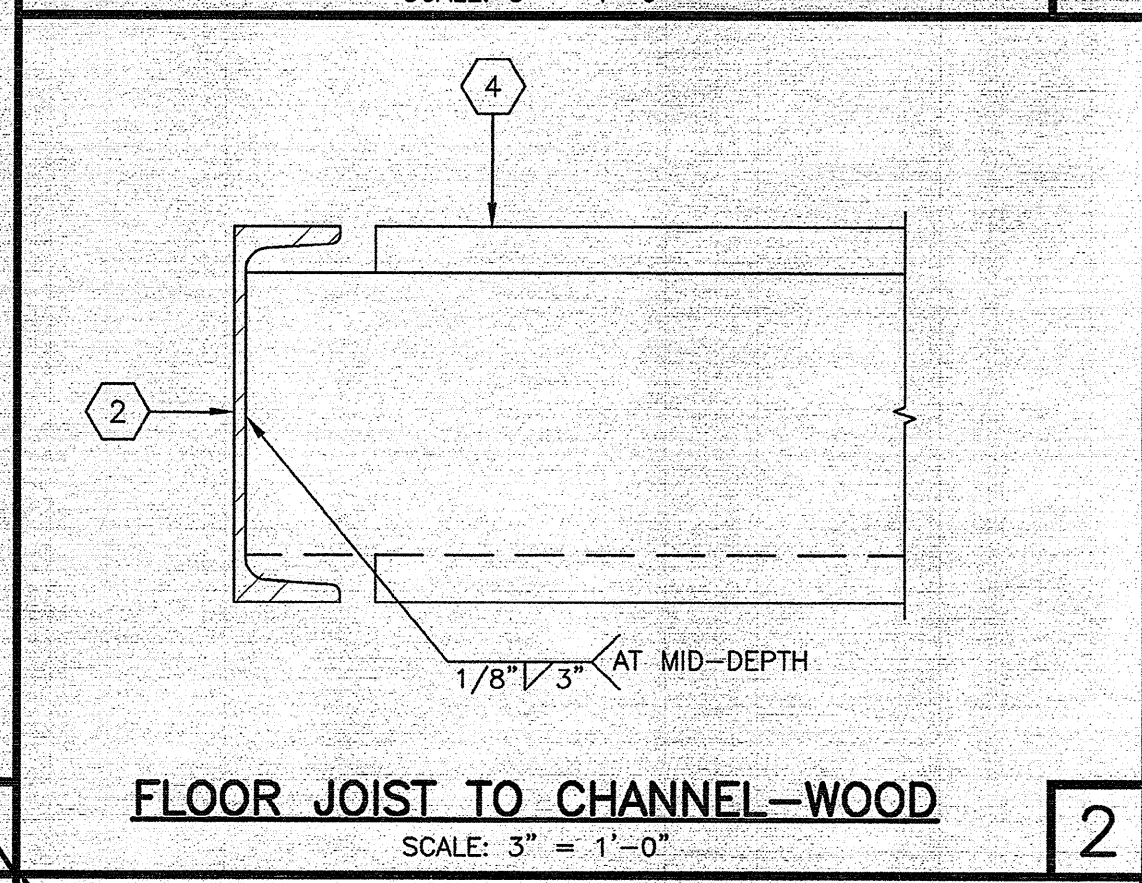
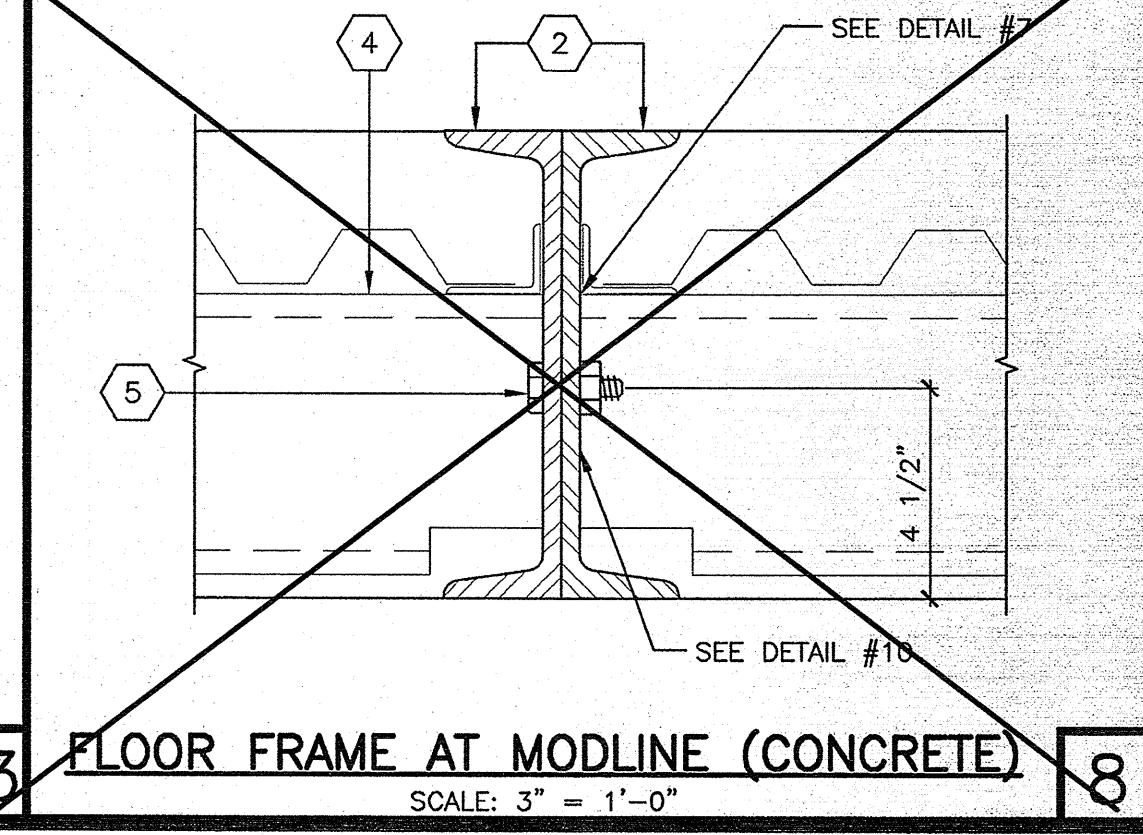
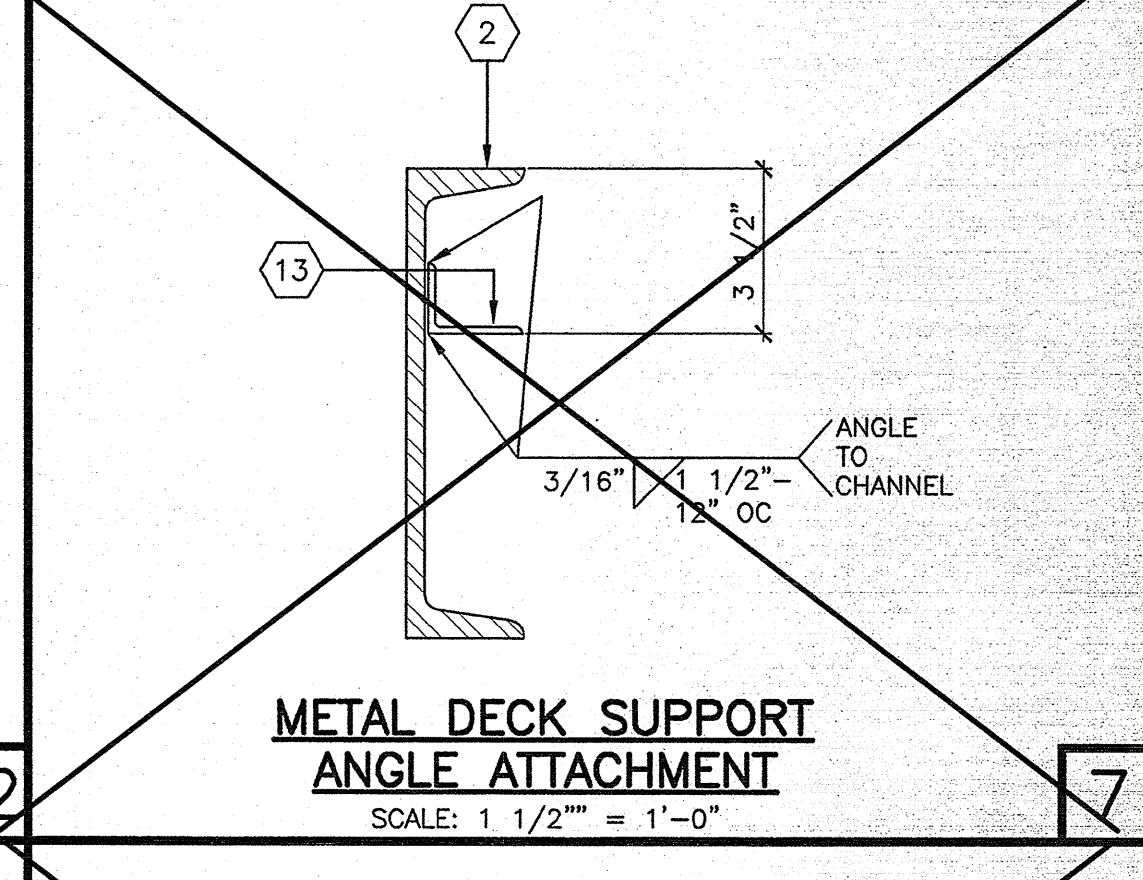
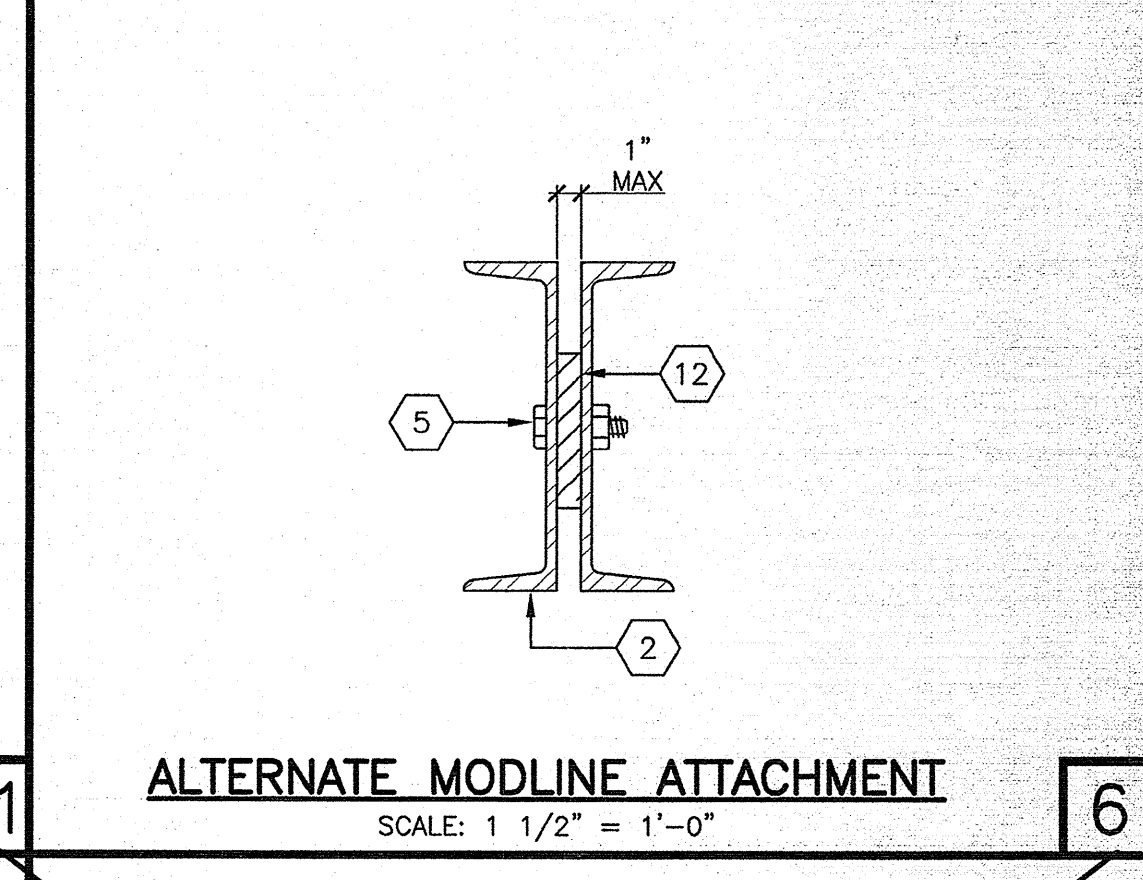
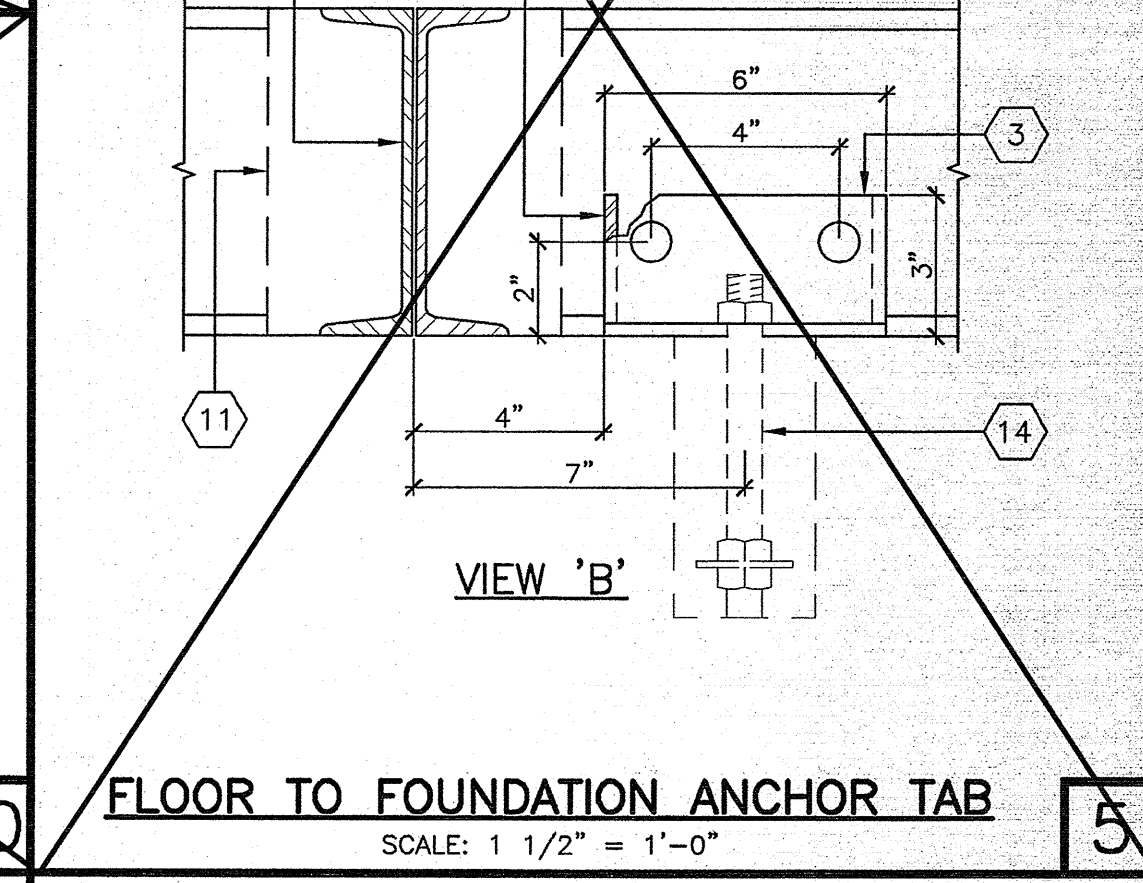
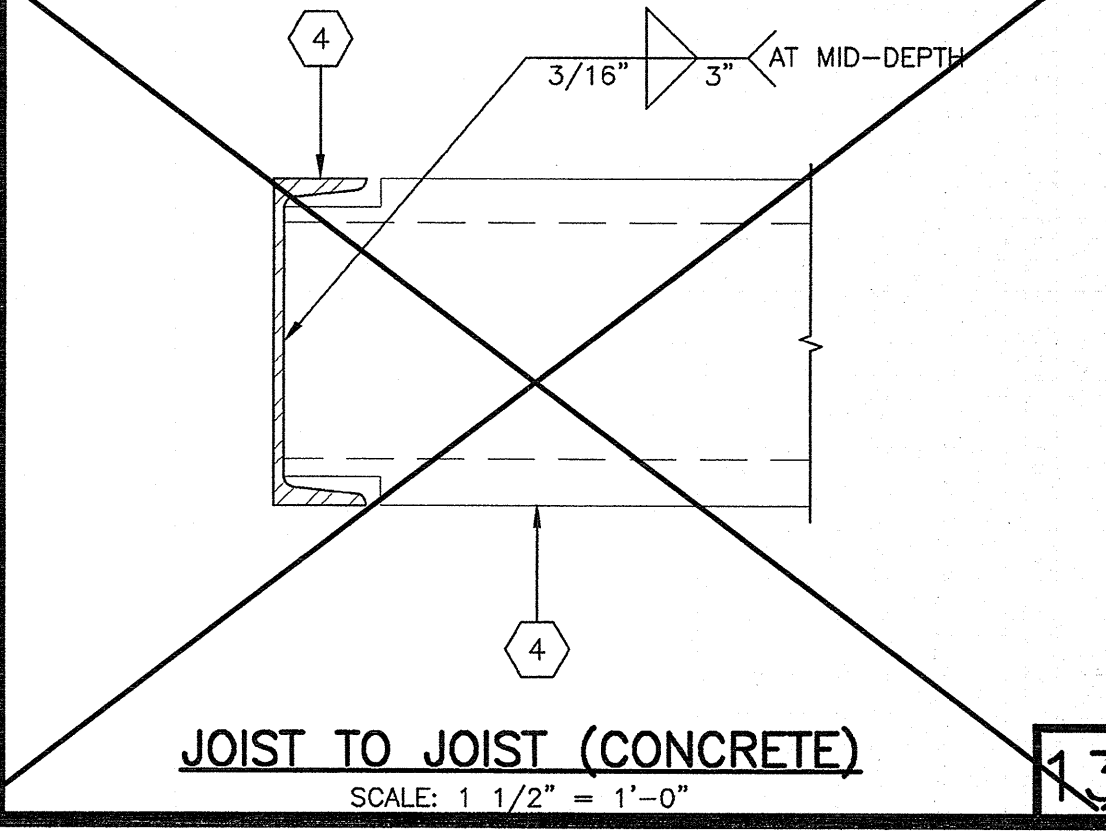
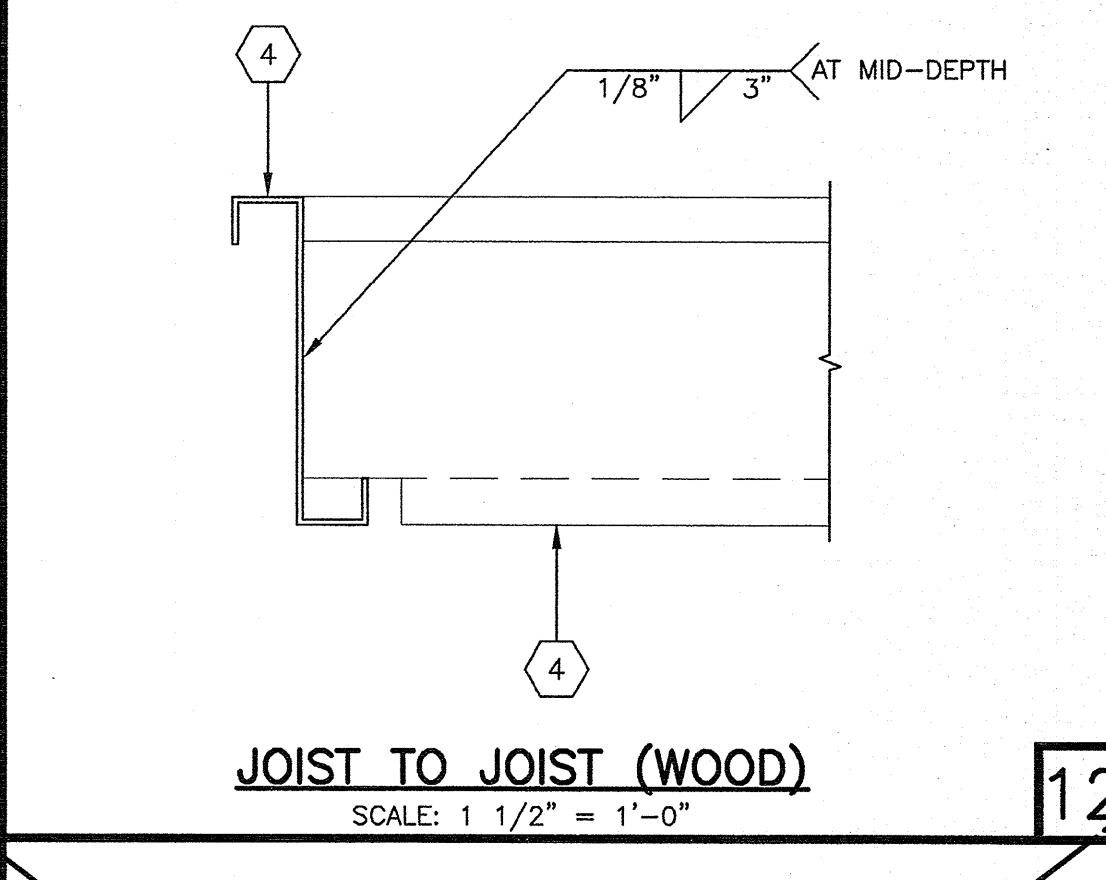
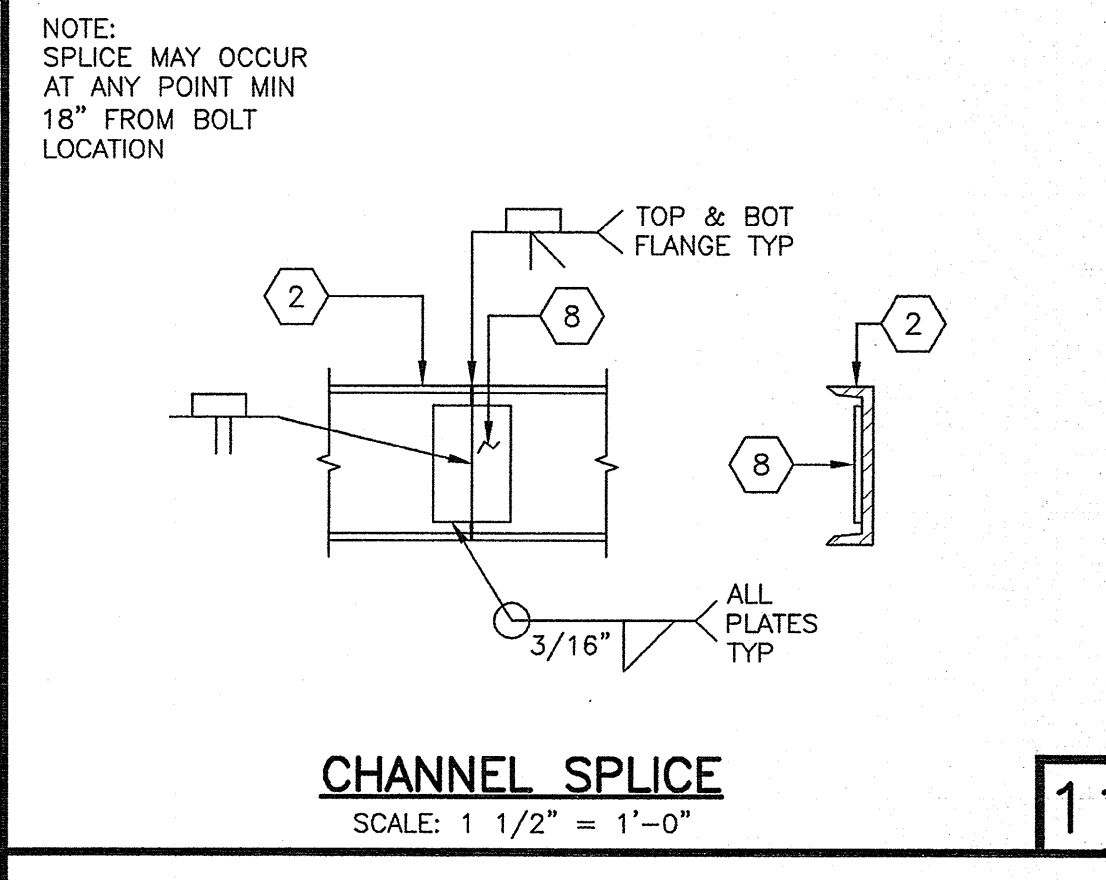
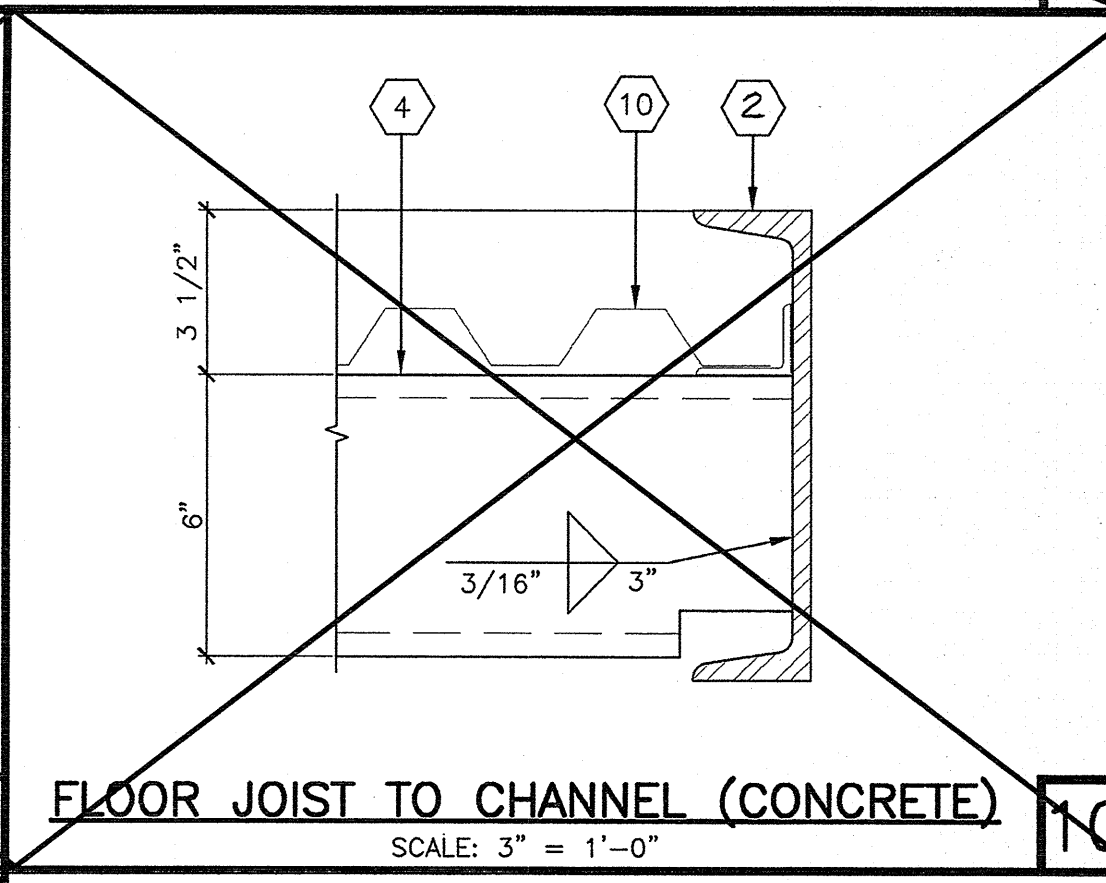
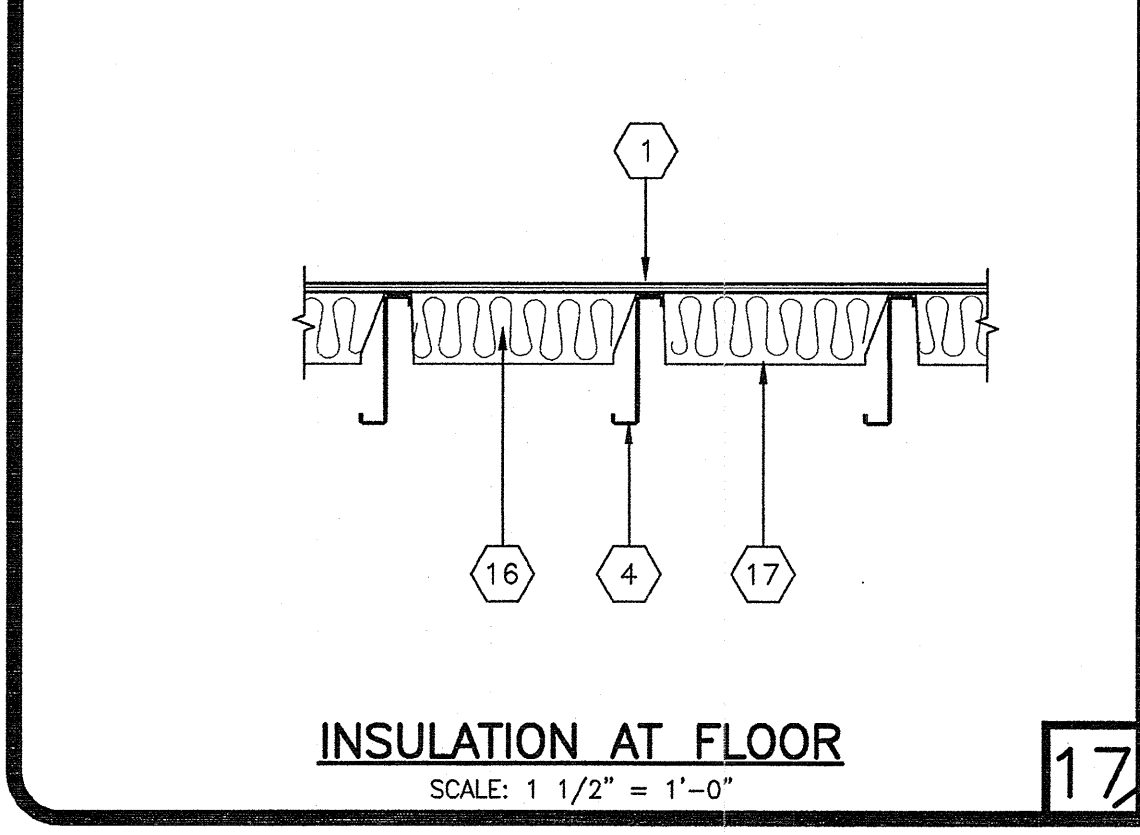
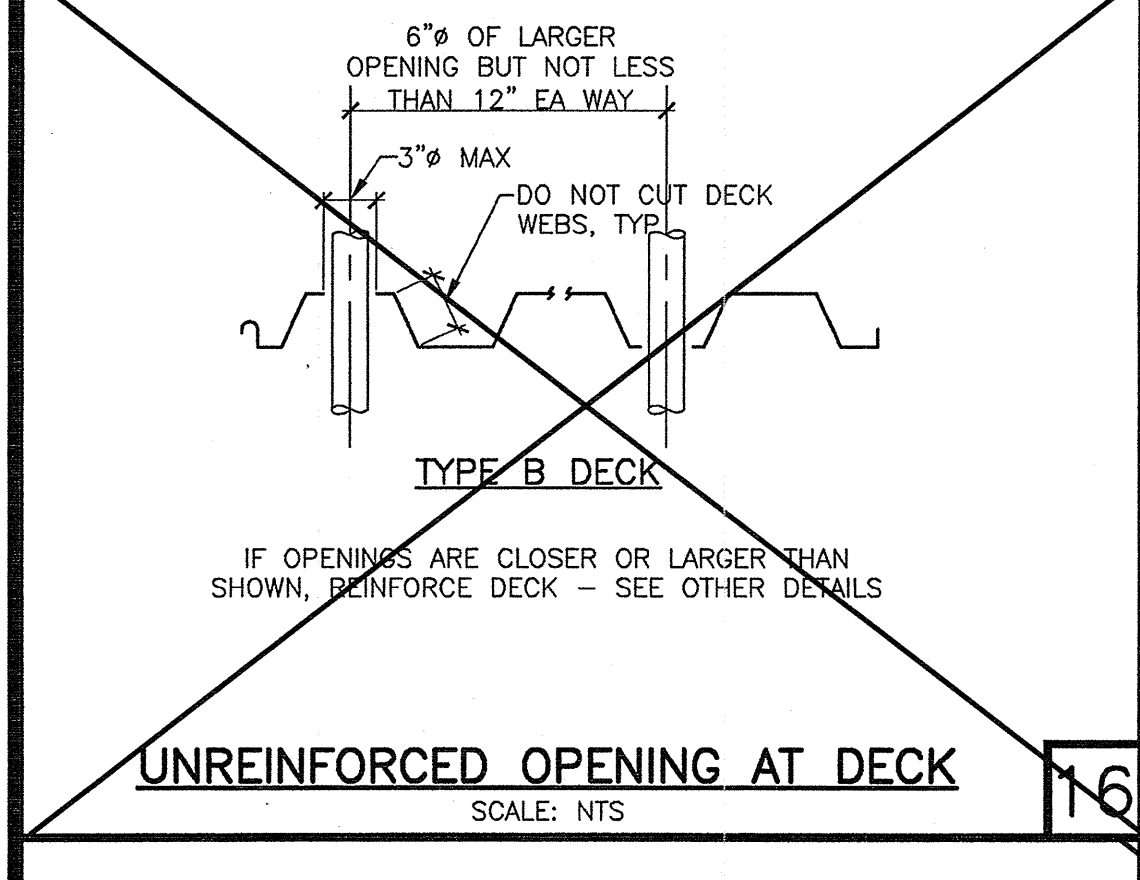
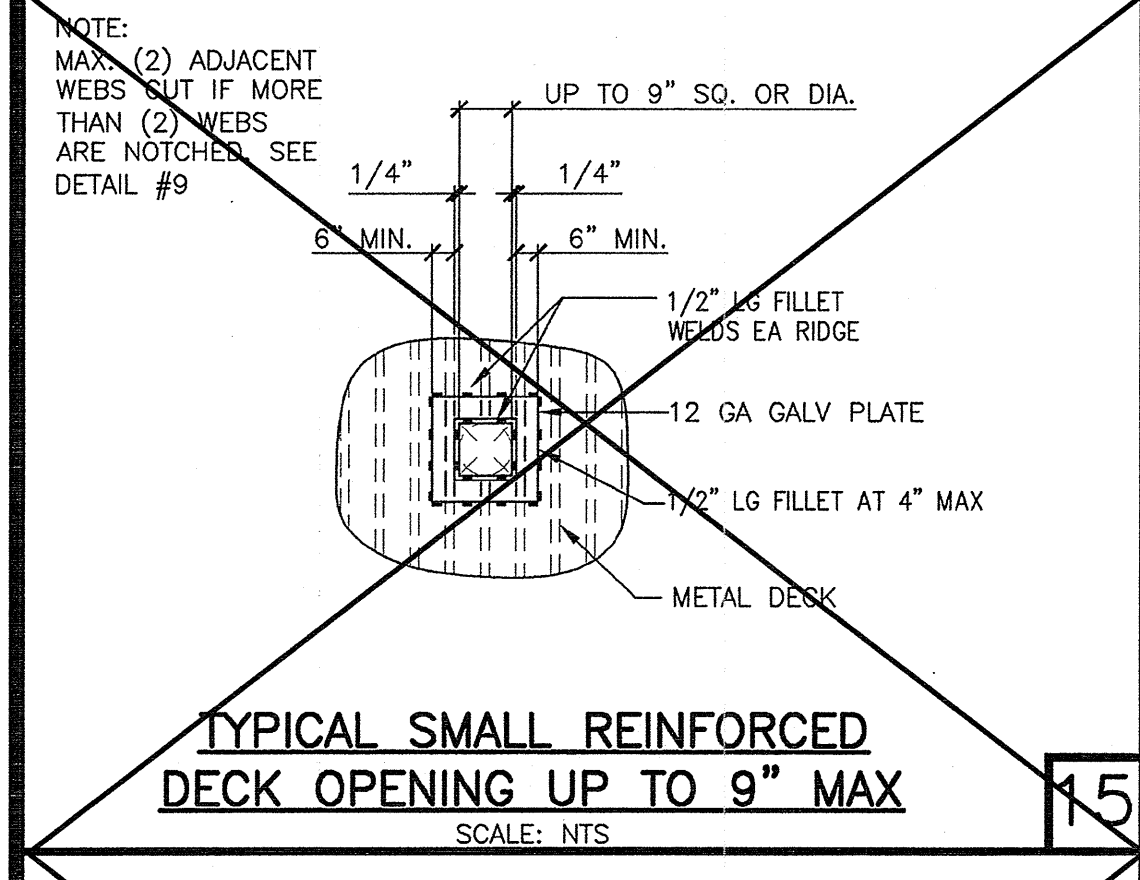
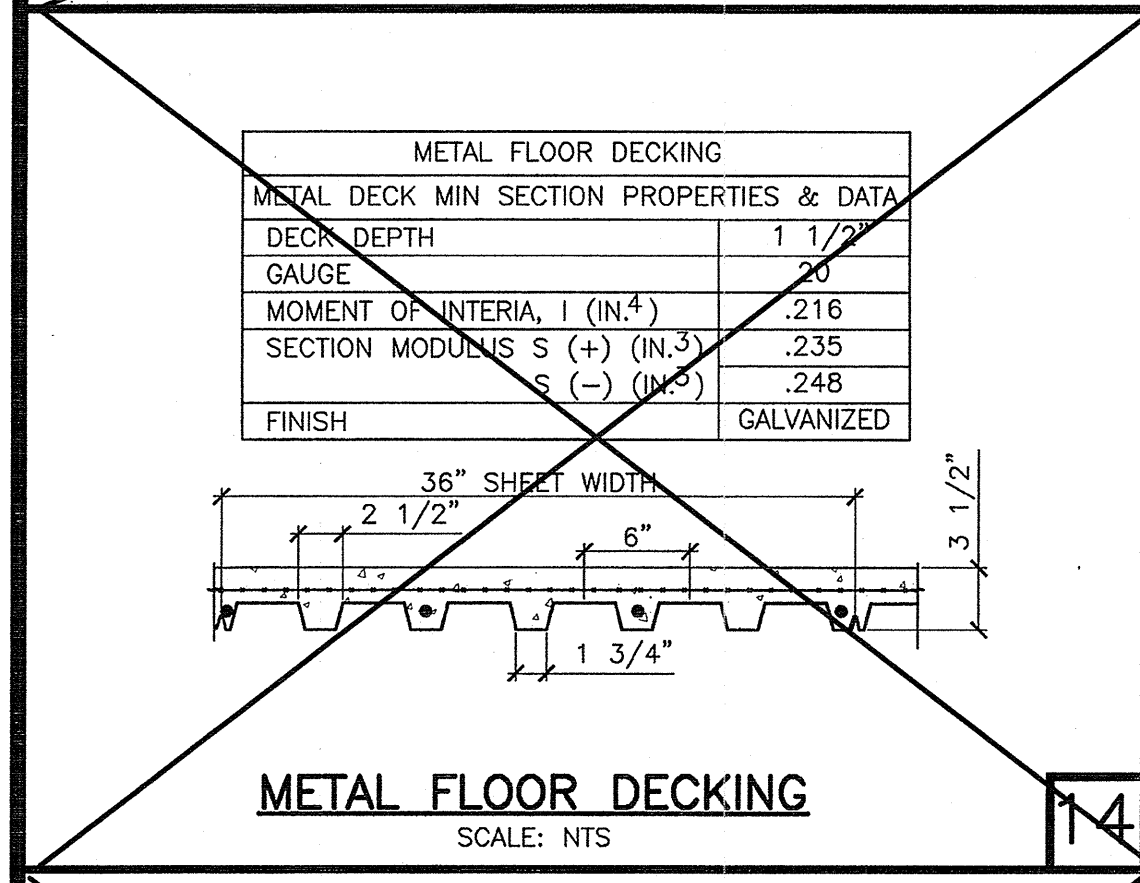
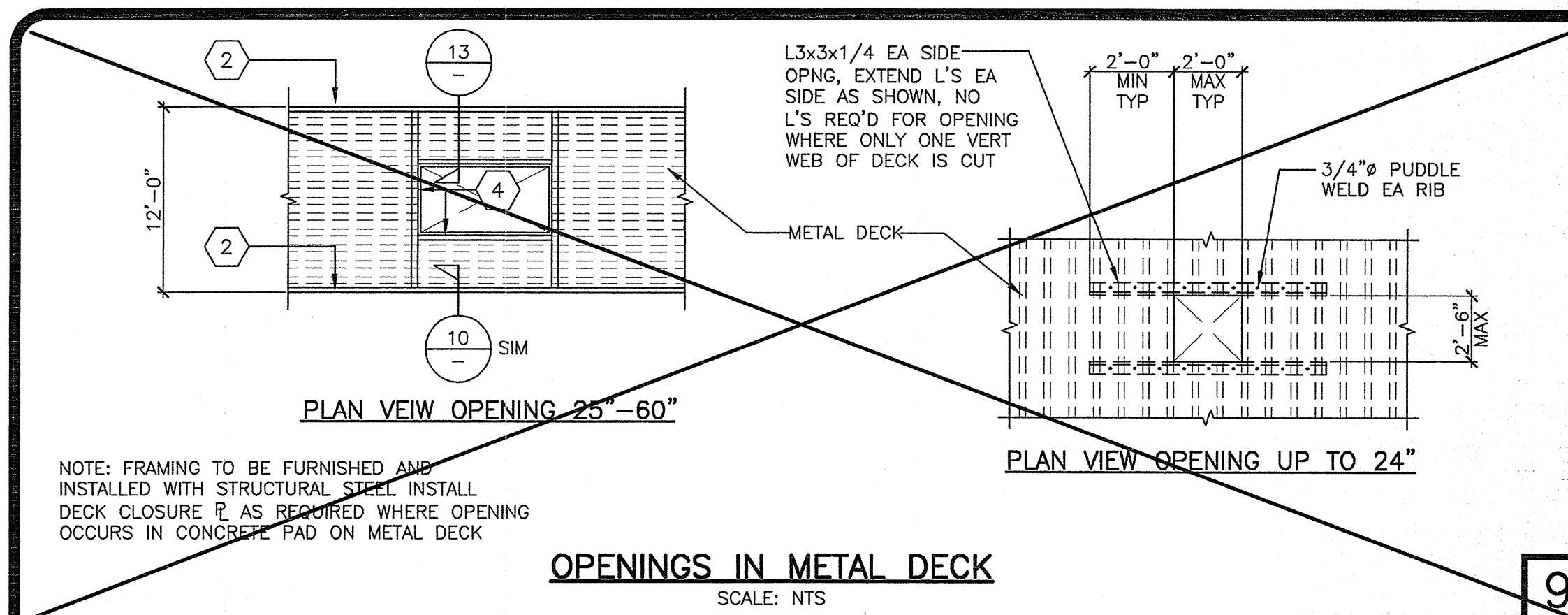
DRAWN BY: MA

SCALE: AS NOTED

DATE: 05-22-09

SHEET NUMBER

S0.3



KEY NOTES

- PLYWOOD FLOOR SHEATHING
- PERIMETER CHANNEL (SEE STRUCTURAL FLOOR FRAMING PLANS)
- 3"x3 1/2"x1/4" ANGLE-ANCHOR TAB. FIELD DRILL (1) 13/16" HOLE WITH A MIN EDGE DISTANCE OF 7/8" FOR ANCHOR BOLT FIELD DRILL (2) 9/16" HOLES TO MATCH ANCHOR PLATE
- FLOOR JOIST AND/OR BLOCK (SEE STRUCTURAL FLOOR FRAMING PLANS)
- 5/8" MACHINE BOLT
- 6"x14"x12 GA PLATE WITH (6) #10-34x1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME AT 10'-0" OC @ MODULE CONNECTION
- 1/4" STEEL STIFFENER PLATE (2) REQUIRED PER ANCHOR PLATE
- 4"x6"x1/4" PLATE AT 7" CHANNEL SPLICE. 4"x8"x1/4" PLATE AT 10" CHANNEL SPLICE
- 6"x3"x1/4" ANCHOR PLATE-DRILL (2) HOLES AS SHOWN
- METAL DECK FLOOR (SEE DETAIL 14)
- FLOOR STUB COLUMN (SEE STRUCTURAL BUILDING SECTION SHEET)
- 2"x2" WASHER AS REQUIRED
- 2"x2"x1/4" SELF ANGLE SUPPORT
- ANCHOR BOLT (SEE FOUNDATION DETAILS SHEET)
- 1/2" MACHINE BOLT WITH NUT, TYP OF 2
- INSULATION ON "SEAL TITE" TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BI-DIRECTIONAL POLYESTER FIBERS
- BOTTOM BOARD

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PROJECT NAME:
MSI STOCKPILE

SHEET TITLE:
**FLOOR FRAMING DETAILS
PLYWOOD & CONCRETE**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

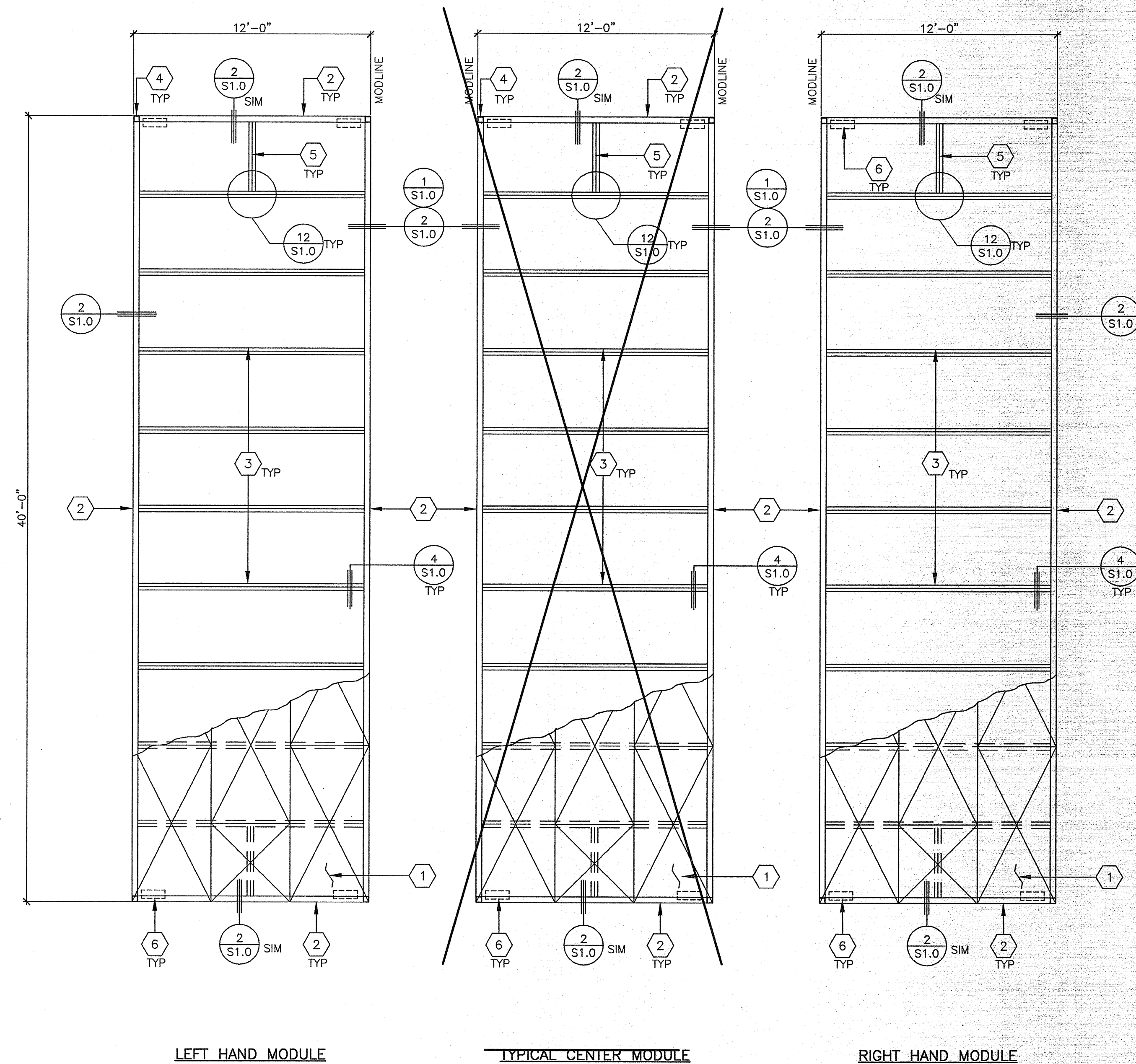
ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09
SHEET NUMBER

S1.0



FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES

- PLYWOOD FLOOR SHEATHING: 1 1/8" APA RATED OR EQUAL PS 1-95 T&G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH #10-24x1 3/4" SELF TAP SCREW @ 6" OC BOUNDARY & EDGES AND 12" OC FIELD PROVIDE FIELD NAILING @ 8" OC WHERE FLOOR JOISTS ARE AT 48" OC, MIN 24" SHEET DIMENSION
- C-7" x 9.8 LB PERIMETER FRAME
- FLOOR JOIST MEMBER (FLOOR JOIST ARE SHOWN AT 48" OC AS AN EXAMPLE ONLY SEE SCHEDULE BELOW FOR SPACING)
- STEEL STUB COLUMN
- JOIST BLOCK MEMBER AT MID SPAN (SAME MEMBER AS TYP FLOOR JOIST)
- BUILDING FOUNDATION ANCHOR TAB (SEE SHEET S1.0 DETAIL #5 TYP)

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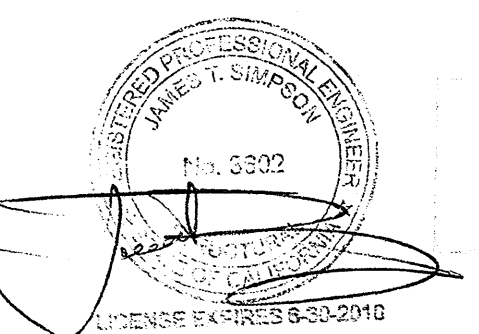
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
**FLOOR FRAMING PLAN
PLYWOOD**

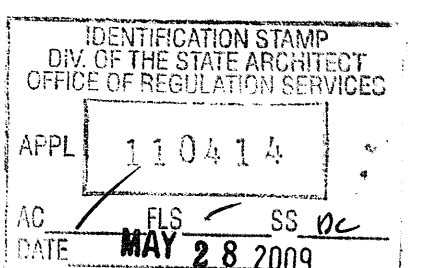
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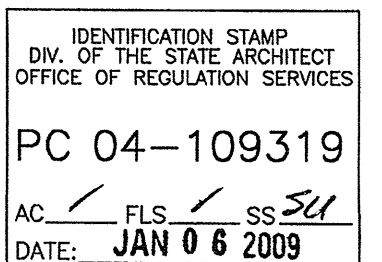
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ARCHITECT OF RECORD

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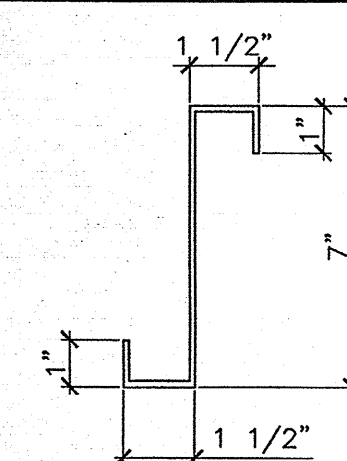
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DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

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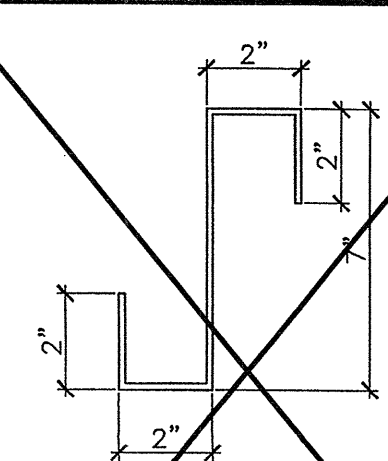
STANDARD FLOOR JOIST SCHEDULE (11 GA)		
FLOOR LOAD	FLOOR JOIST	SPACING
50	Z 7x1 1/2x11 GA	48" OC
50+20	Z 7x1 1/2x11 GA	32" OC
100	Z 7x1 1/2x11 GA	24" OC
125	Z 7x1 1/2x11 GA	16" OC

ALTERNATE FLOOR JOIST SCHEDULE (14 GA)		
FLOOR LOAD	FLOOR JOIST	SPACING
50	Z 7x2x14 GA	32" OC
50+20	Z 7x2x14 GA	24" OC
100	Z 7x2x14 GA	16" OC
125	Z 7x2x14 GA	12" OC



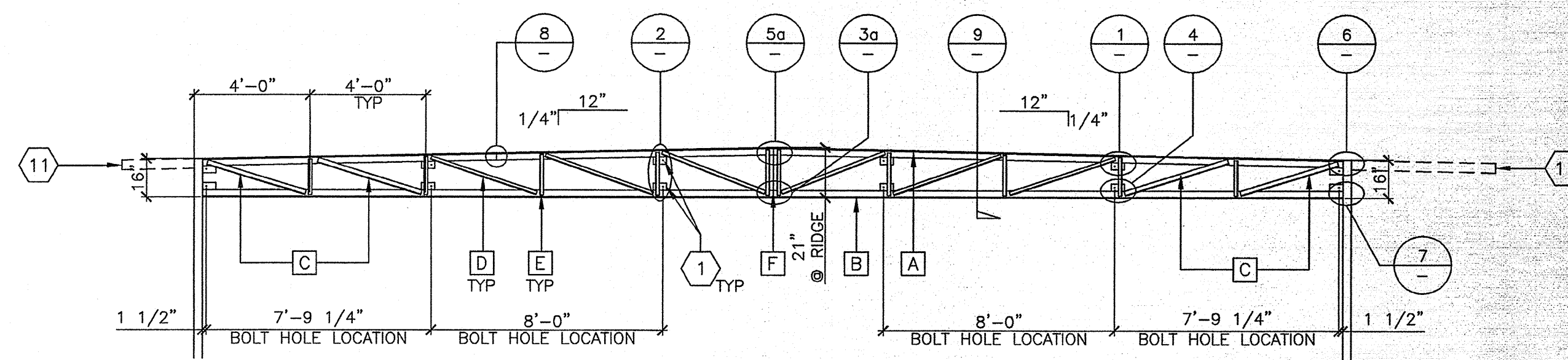
Ix = 9.183
Sx = 2.624
Fy = 40,000 KSI

FLOOR JOIST/BLOCKING
SCALE: 3" = 1'-0"



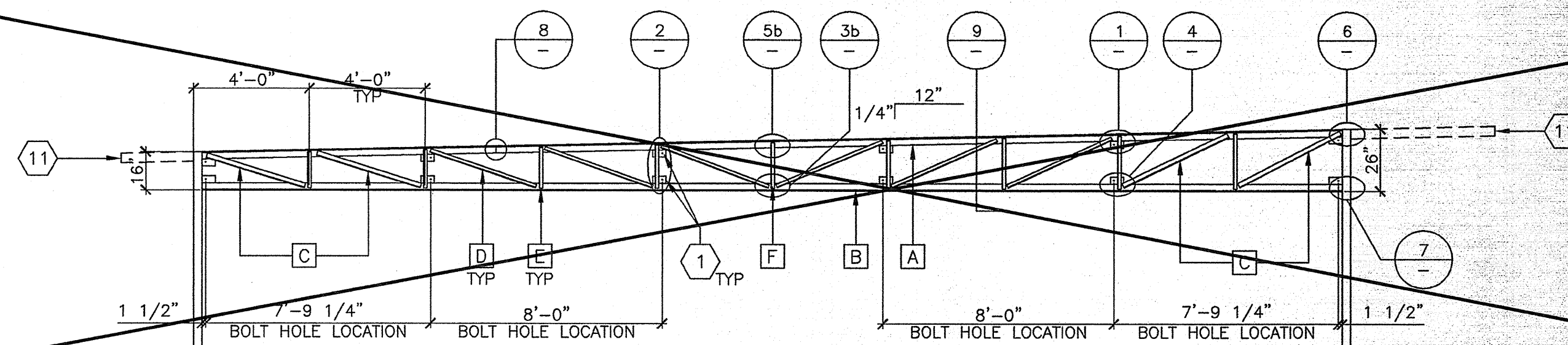
Ix = 6.573
Sx = 1.878
Fy = 40,000 KSI

FLOOR JOIST/BLOCKING
SCALE: 3" = 1'-0"



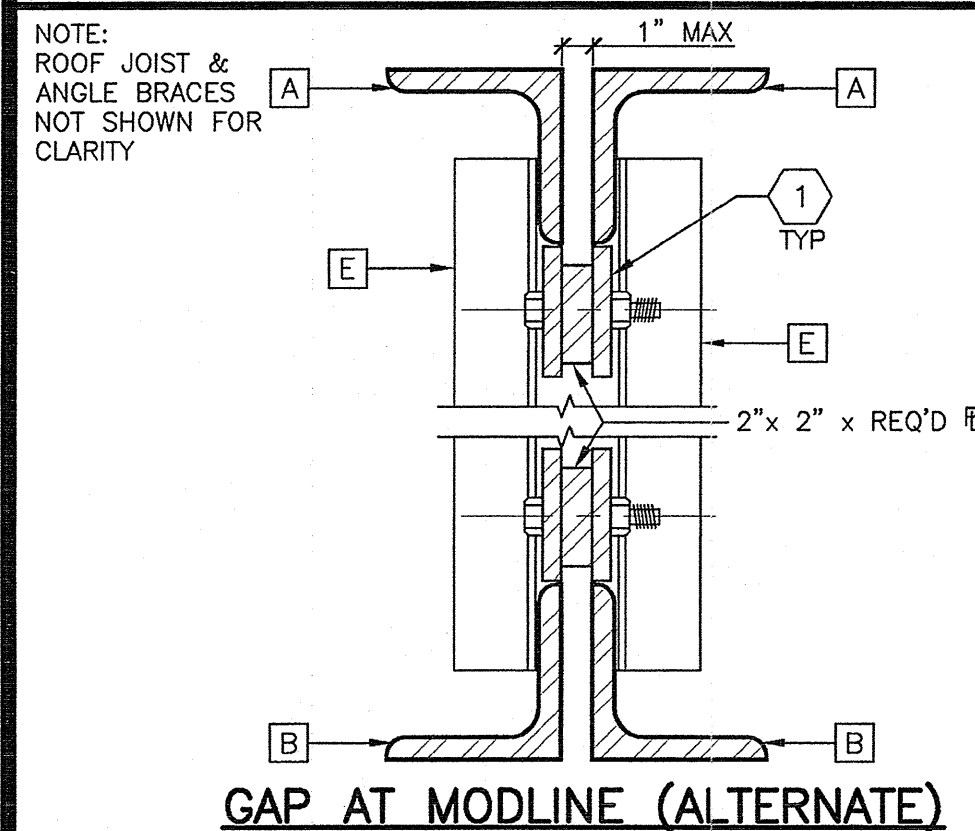
DUAL SLOPE TRUSS AT MODLINE

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

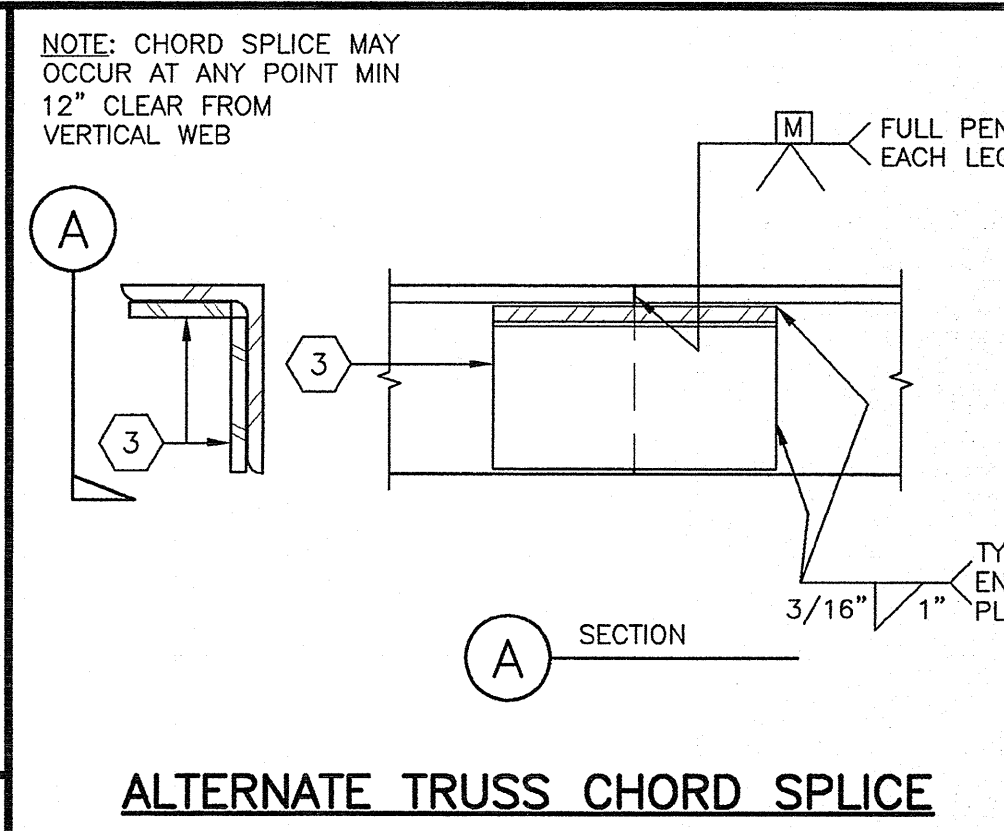


MONO SLOPE TRUSS AT MODLINE

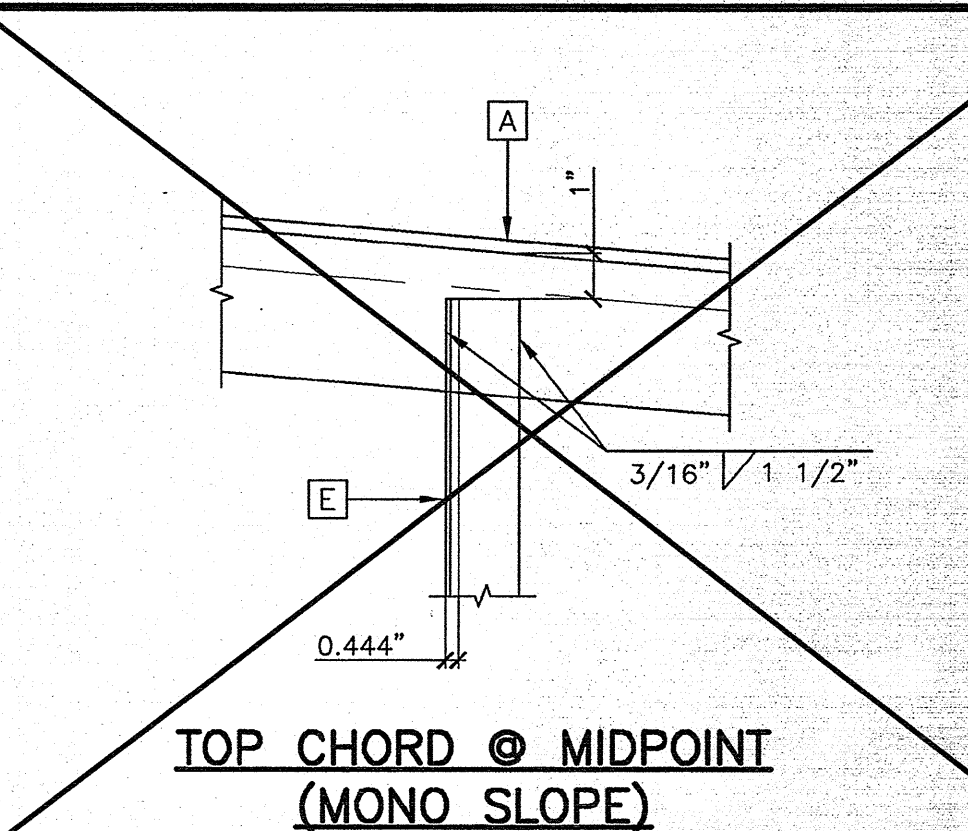
SCALE: 1/4" = 1'-0"



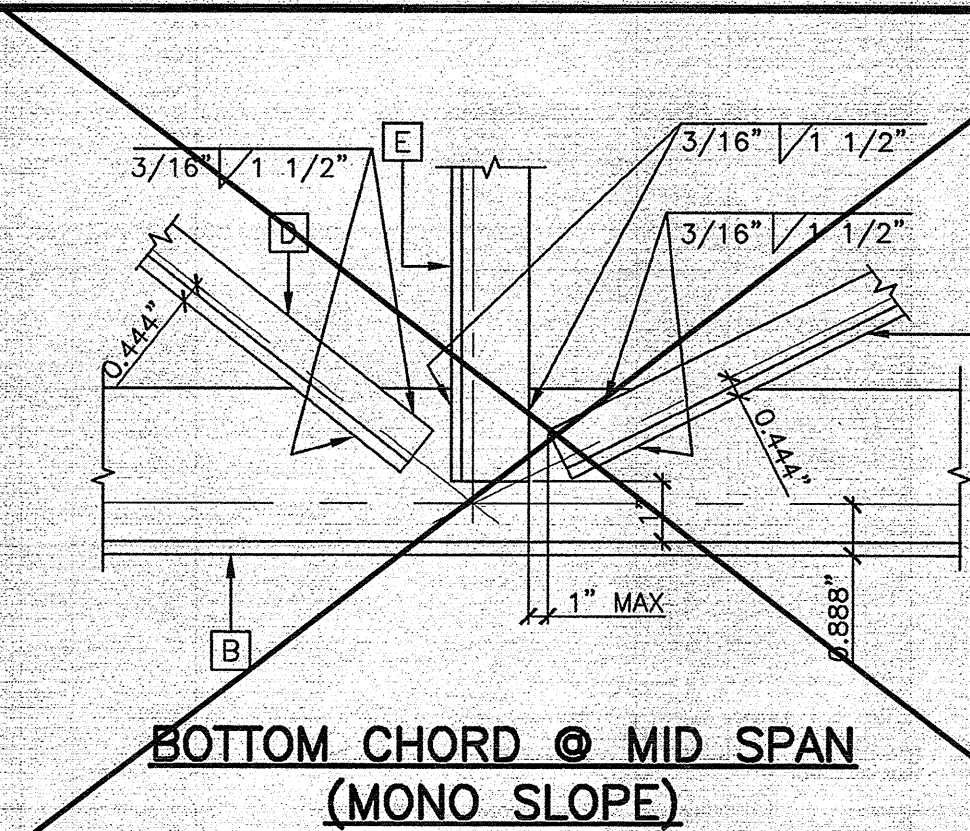
GAP AT MODLINE (ALTERNATE)



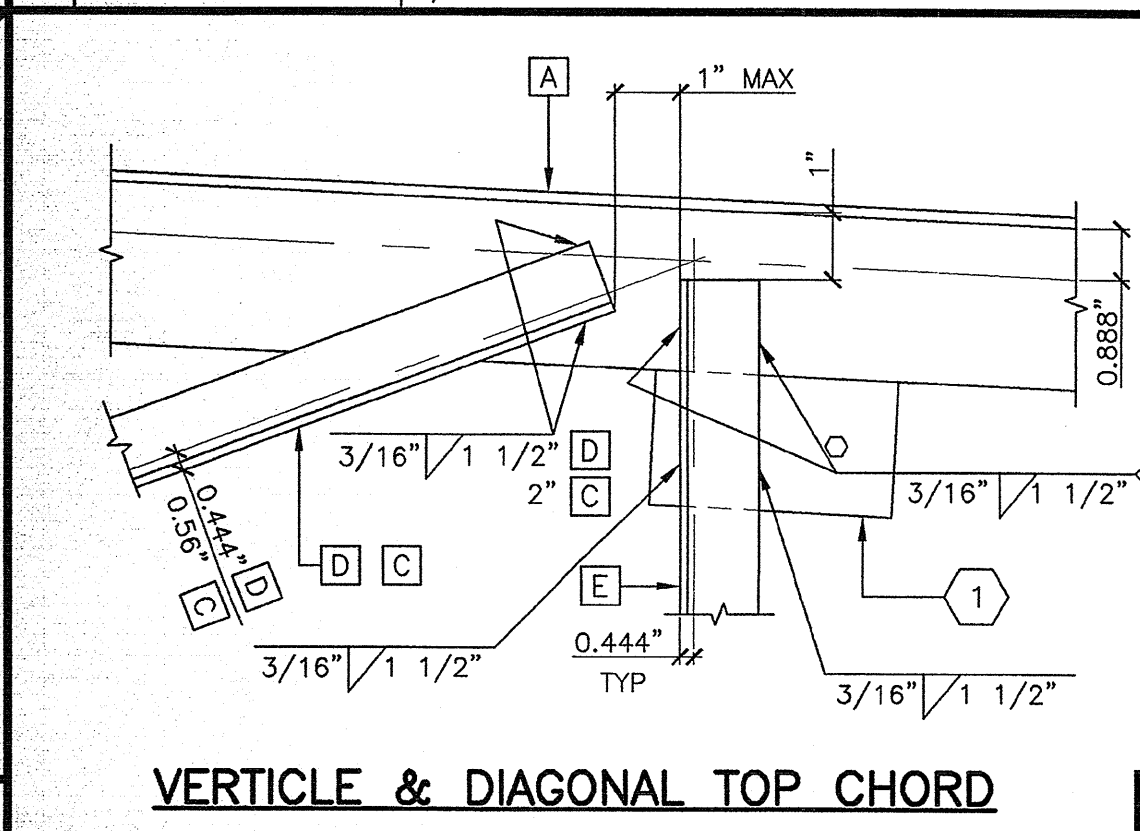
ALTERNATE TRUSS CHORD SPLICE



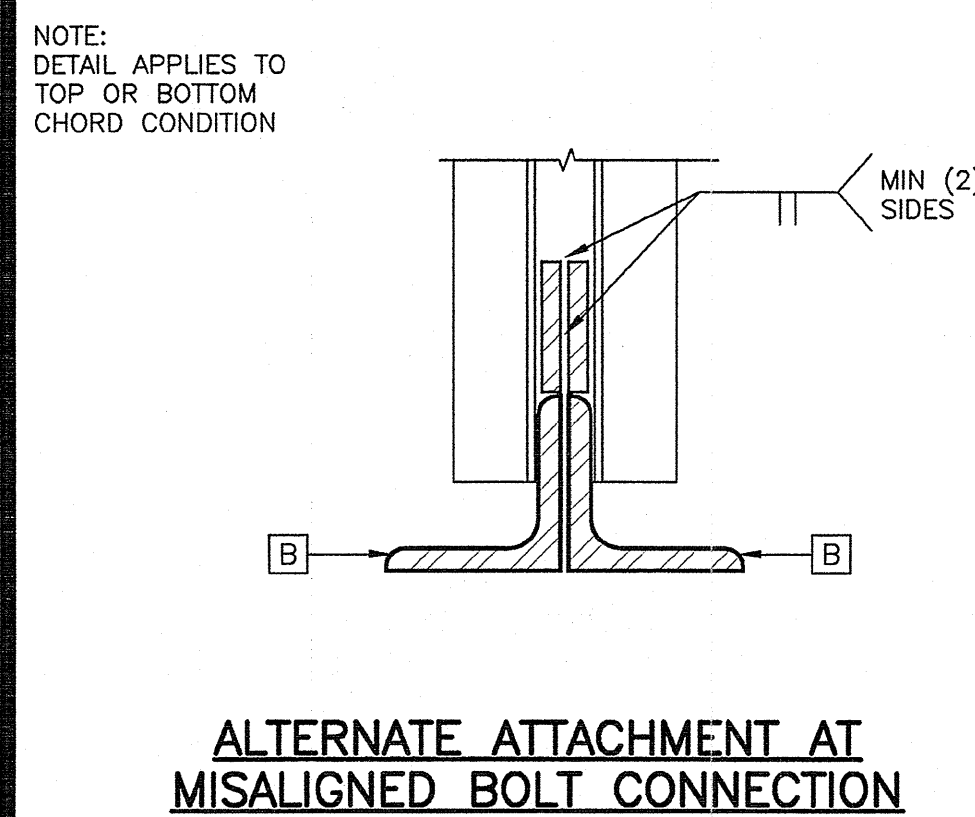
TOP CHORD @ MIDPOINT (MONO SLOPE)



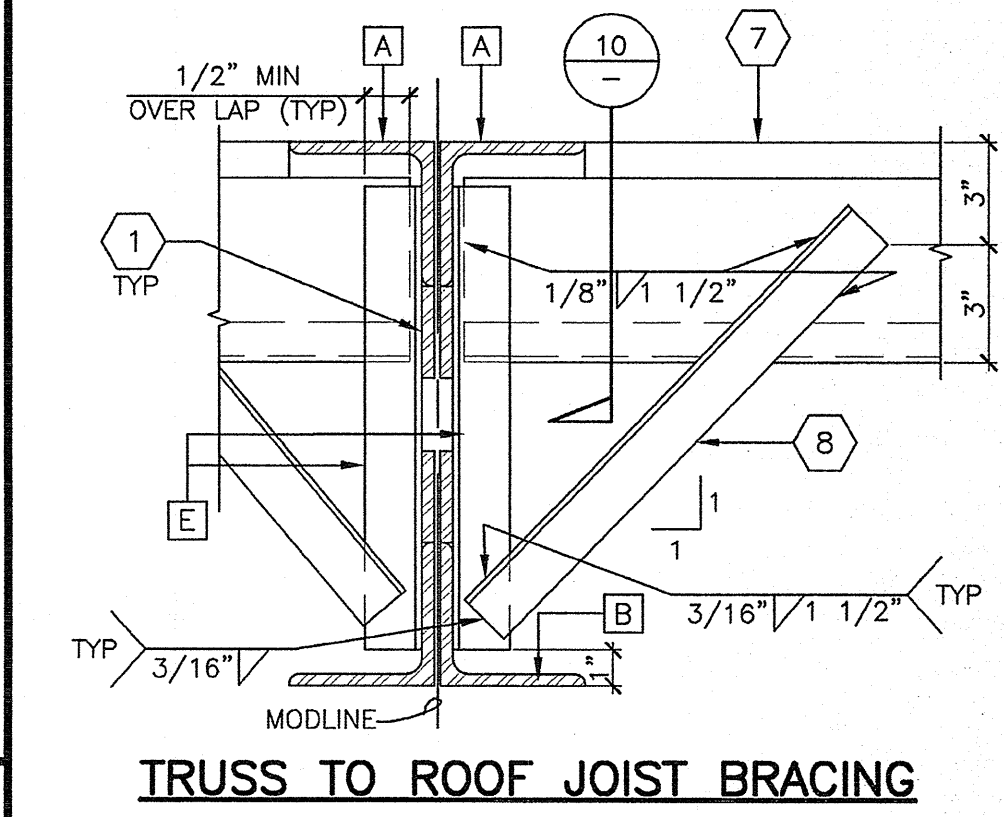
BOTTOM CHORD @ MID SPAN (MONO SLOPE)



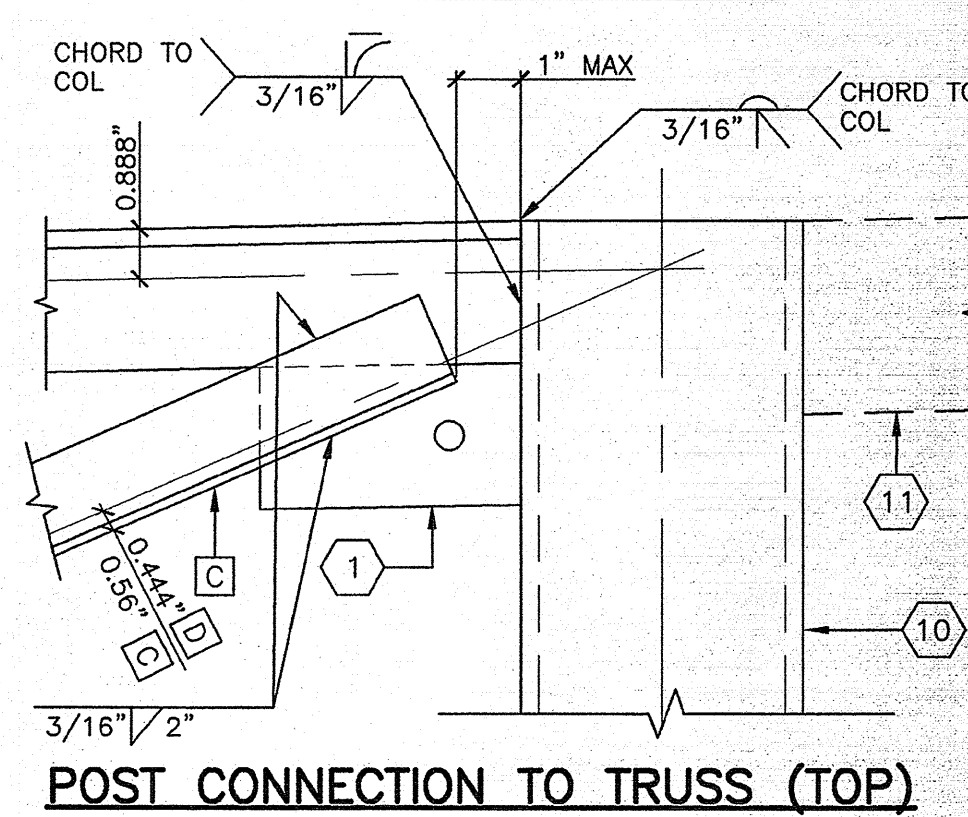
VERTICLE & DIAGONAL TOP CHORD



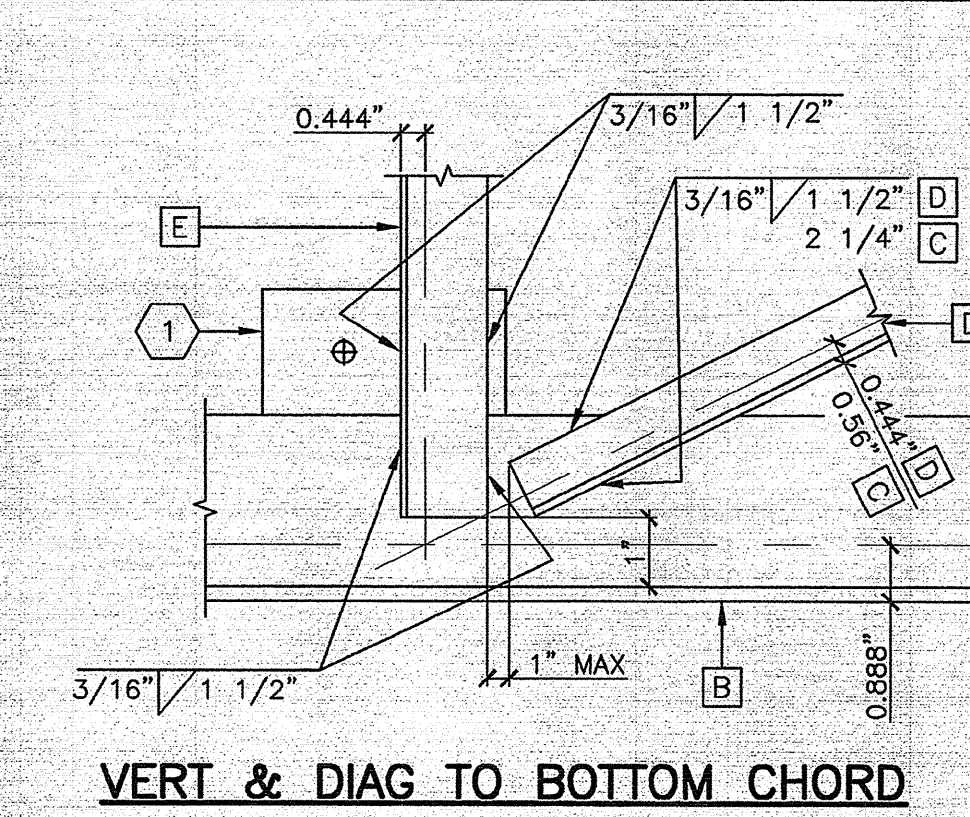
ALTERNATE ATTACHMENT AT MISALIGNED BOLT CONNECTION



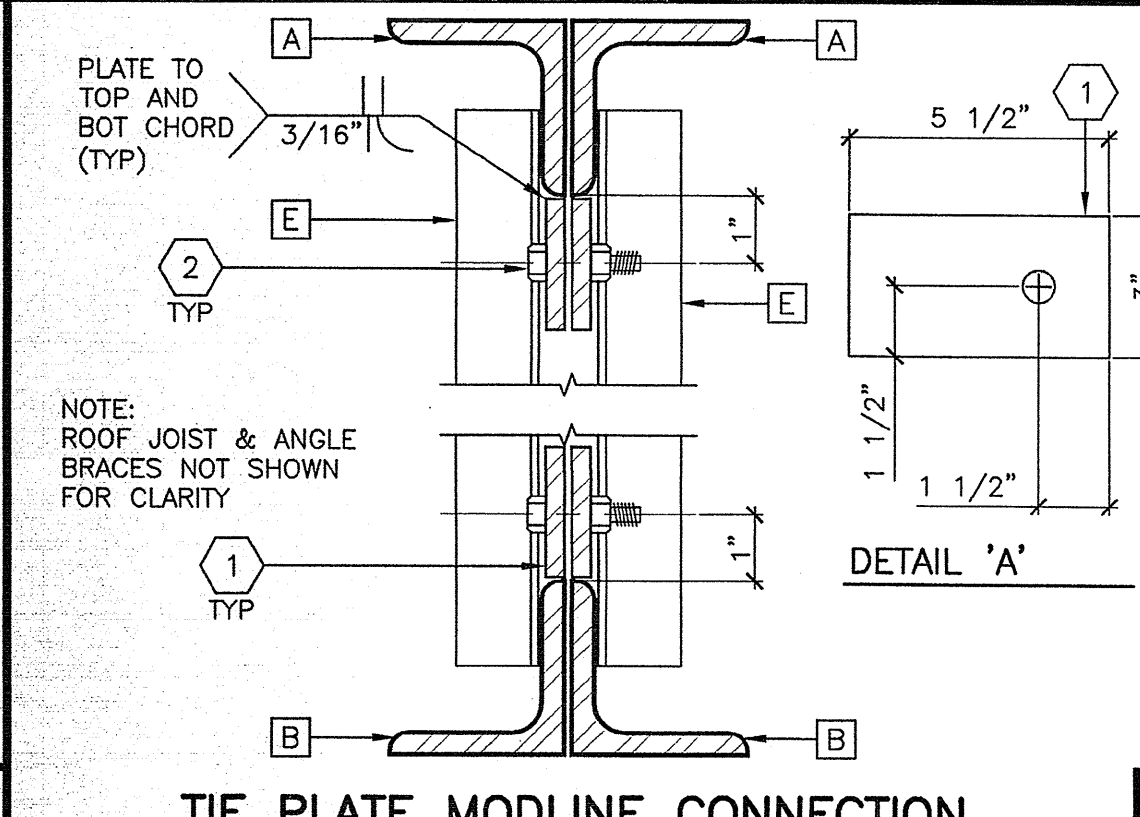
TRUSS TO ROOF JOIST BRACING



POST CONNECTION TO TRUSS (TOP)



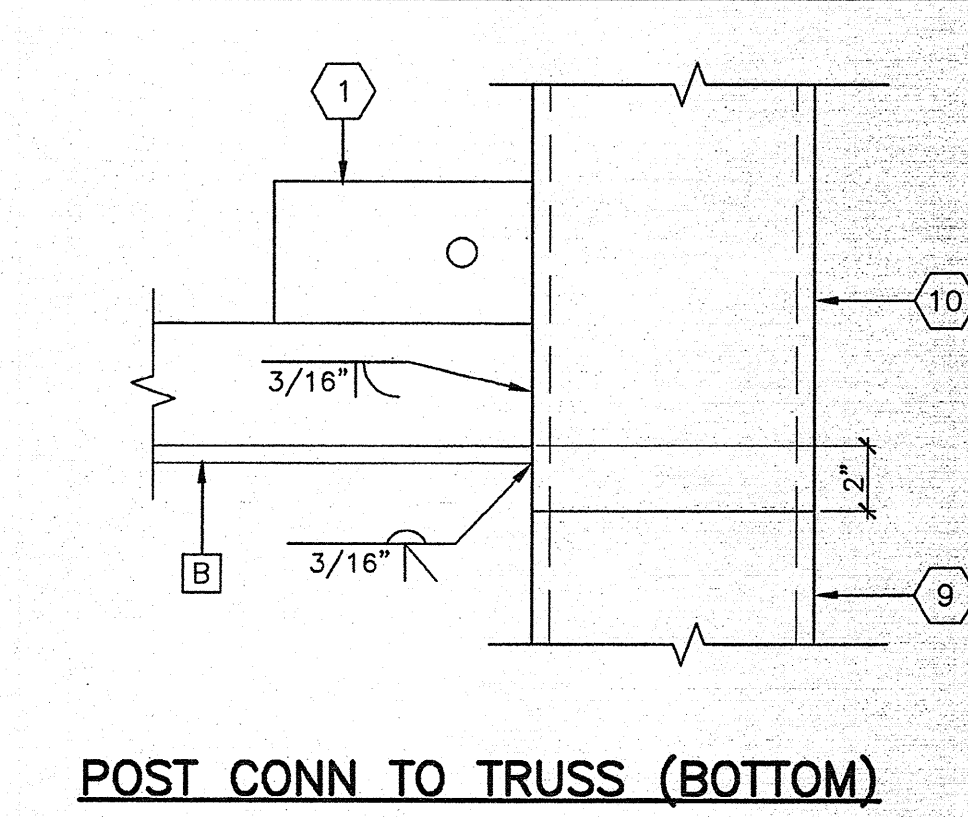
VERT & DIAG TO BOTTOM CHORD



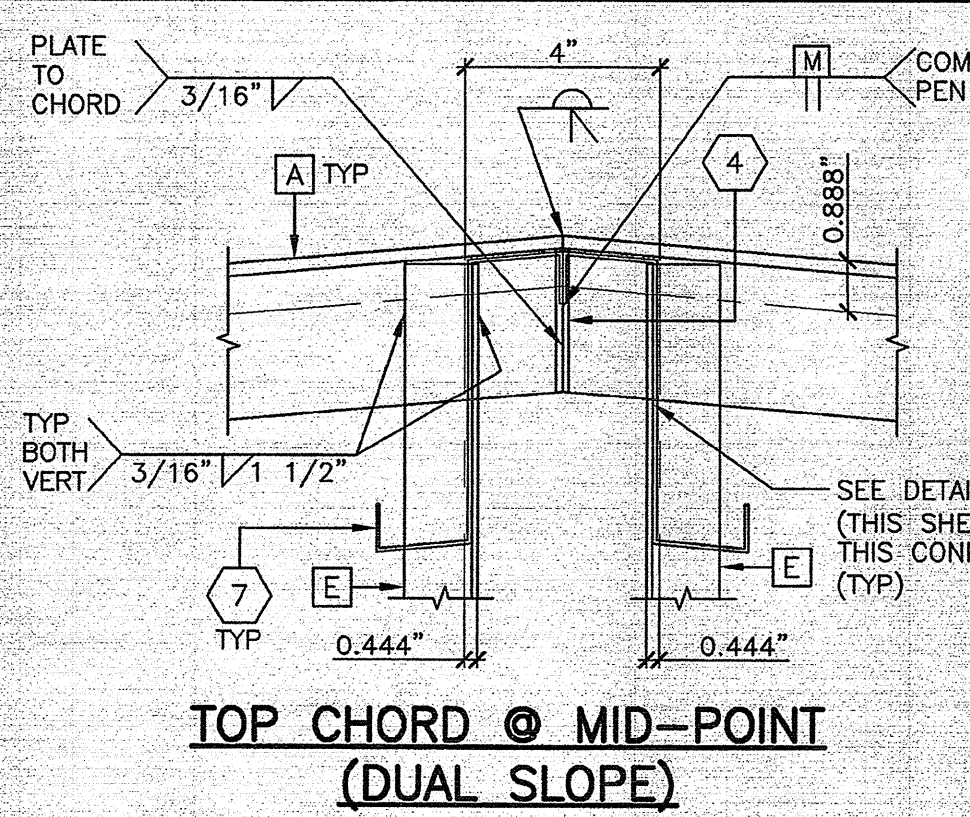
TIE PLATE MODLINE CONNECTION



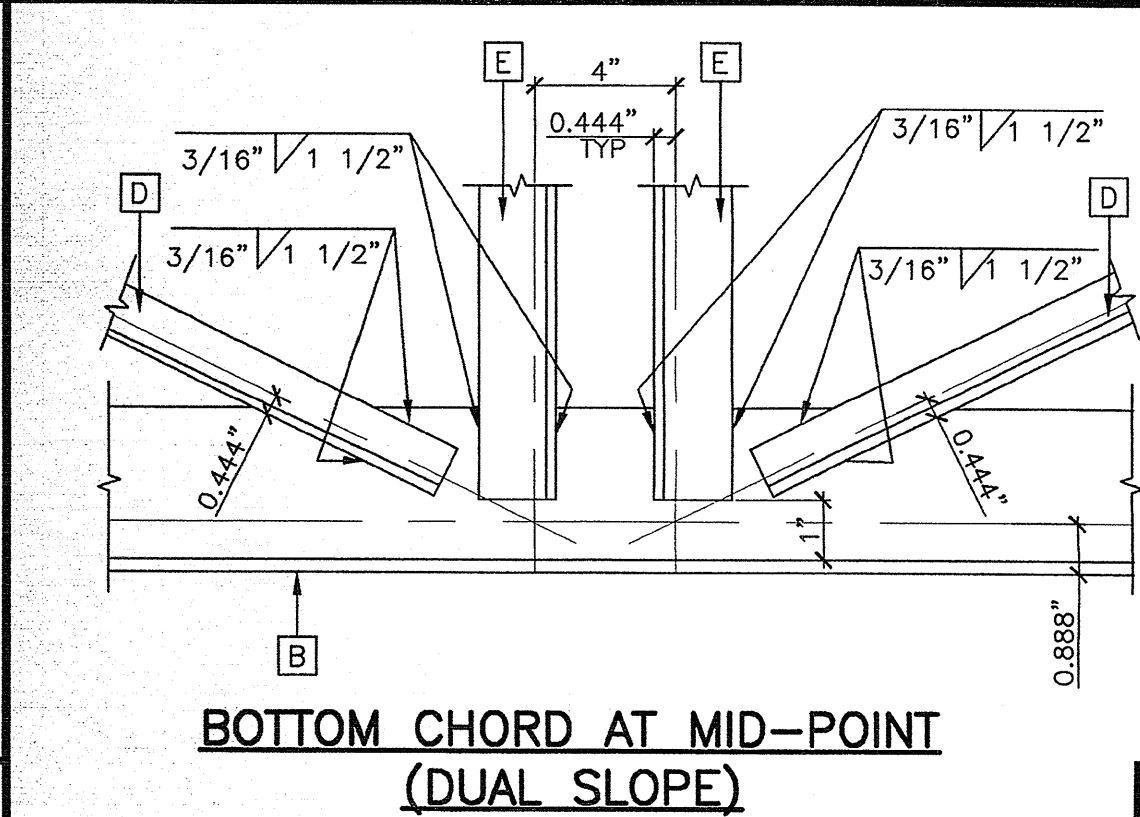
STEEL JOIST TO VERTICAL LEG



POST CONN TO TRUSS (BOTTOM)



TOP CHORD @ MID-POINT (DUAL SLOPE)



BOTTOM CHORD AT MID-POINT (DUAL SLOPE)

KEY NOTES

- 3/8" X 3" X 5 1/2" PLATE WITH 1/16" HOLE FOR 5/8" MACHINE BOLT PLATES AT 8'-0" OC MAX WHERE OCCURS PER ELEVATION FOR MODULE CONNECTION SEE DETAIL 2
- 5/8" MACHINE BOLT AT 8'-0" OC MAX
- 6" LONG X 1/4" BACK UP PLATE
- 1/4" FULL DEPTH STIFFENER PLATE
- NOT USED
- 3" X 3" X 1/4" PLATE
- STEEL ROOF JOIST
- L-1 1/2" X 1 1/2" X 3/16" BRACE EACH SIDE @ 8'-0" OC MAX
- STEEL COLUMN
- STEEL STUB COLUMN
- OVERHANG
- BACK-UP PLATE

GENERAL NOTES

- ALL STEEL GRADES TO BE A-36 OR EQUAL WITH 36 KSI MIN YIELD
- REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQUAL
- VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURES SPECS
- BOLTS & NUTS TO BE A307

TRUSS SCHEDULE

A	TOP CHORD	L-3" X 3" X 3/8"
B	BOTTOM CHORD	L-3" X 3" X 3/8"
C	1ST & 2ND DIAGONAL	L-2" X 2" X 3/16" - 4" TOTAL WELD COMBINED
D	TYPICAL DIAGONAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
E	TYPICAL VERTICAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
F	CAMBER	5/8" AT MIDSPAN

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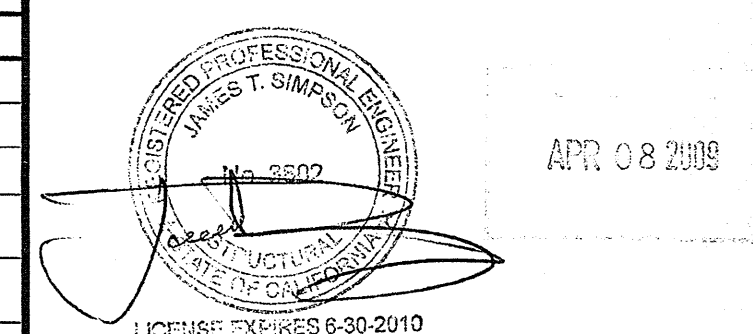
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

ROOF TRUSS AND DETAILS

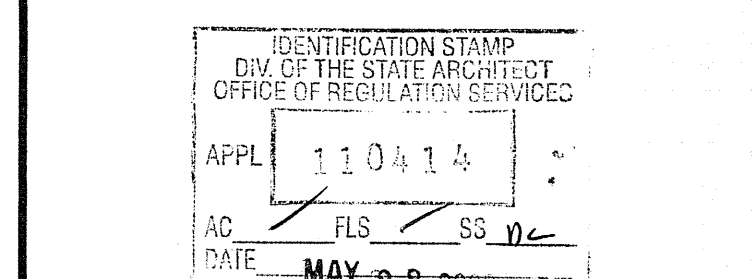
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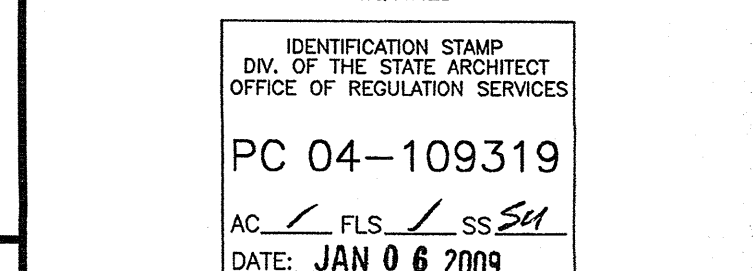
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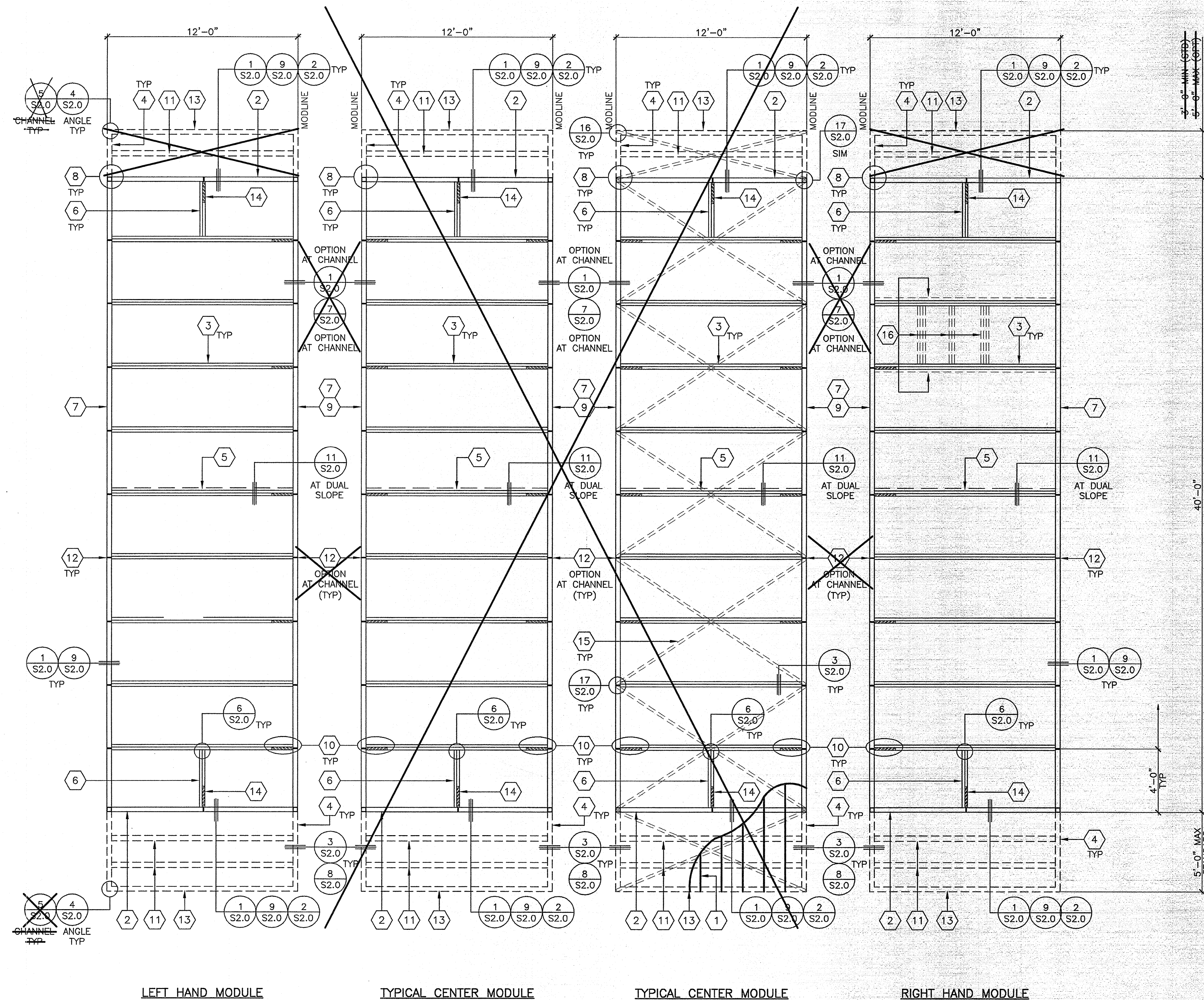
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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER

S2.1



ROOF FRAMING PLAN W/ 22 GA DECK
SCALE: 1/4" = 1'-0"

KEY NOTES

- 22 GA GALV STANDING SEAM METAL ROOF (SEE ROOF PLAN FOR ATTACHMENT DETAILS)
- ROOF HEADER (SEE SCHEDULE BELOW)
- Z ROOF JOIST (SEE SCHEDULE BELOW)
- OVERHANG OUTRIGGER, TYPICAL EACH SIDE (SEE SCHEDULE BELOW)
- USE DOUBLE JOIST AT THIS LOCATION (MIDSPAN) FOR DUAL SLOPE ROOF. ADDITIONAL JOIST SHOWN AS HIDDEN LINES. USE SINGLE JOIST AT THIS LOCATION FOR MONO SLOPE ROOF.
- Z MEMBER BLOCK AT MIDSPAN OF HEADER, TYPICAL EACH END
- OPTIONAL ROOF BEAM AT MODLINE (SEE SCHEDULE BELOW)
- STEEL CORNER STUB COLUMN
- STEEL TRUSS (SEE ROOF TRUSS & DETAILS SHEET)
- STEEL TRUSS BRACE, WHERE TRUSSES OCCUR (SEE ROOF TRUSS & DETAILS SHEET)
- OVERHANG JOIST (SEE SCHEDULE BELOW)
- 1/4" FULL HEIGHT STIFFENER AT ROOF BEAM TYPICAL (SEE STRUCTURAL BLDG SECTION SHEET)
- OVERHANG FASCIA (SEE SCHEDULE BELOW)
- STEEL BRACE AT ROOF HEADER TYPICAL (SEE BUILDING SECTIONS)
- 2" X 20 GA METAL STRAPS WITH 3" MIN OF 1/8" FILLET WELD EACH END OF STRAP TO ROOF BEAM AND/OR HEADER STRAP SHALL BE PULLED TIGHT PRIOR TO WELDING
- TYPICAL A/C ROOF MOUNT FRAMING. SEE MECHANICAL PLANS FOR LOCATIONS PROVIDE DOUBLE PURLINS AS SHOWN SEE DETAIL 7-10/02-0

ROOF BEAM SCHEDULE

ROOF SLOPE	
DUAL	18"-23"-18" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL
MONO	18"-28"-18" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL

ROOF HEADER SCHEDULE

ROOF SLOPE	
DUAL	18" x 3 1/2" x 12 GA CHANNEL (BOTH ENDS)
MONO	18" x 3 1/2" x 12 GA CHANNEL (LOW END) 28" x 3 1/2" x 12 GA CHANNEL (HIGH END)

ROOF JOIST SCHEDULE

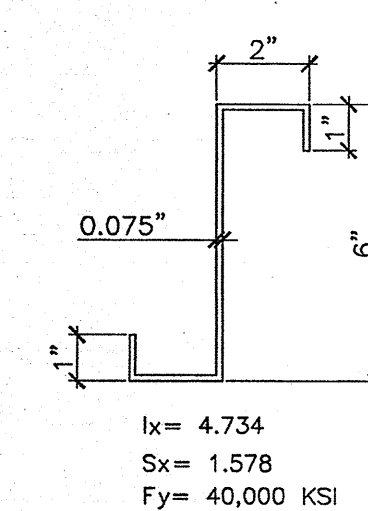
JOIST	SPACING
6" x 2" x 14 GA Z-MEMBER	48" OC

MODLINE SCHEDULE

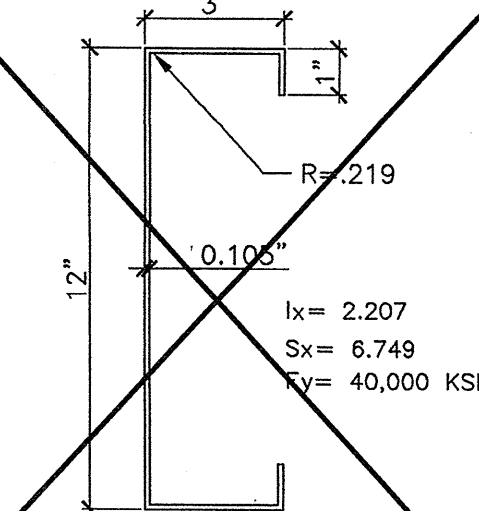
TOP CHORD	BOTTOM CHORD	CHANNEL
SEE ROOF TRUSS SHEET	SEE ROOF TRUSS SHEET	N/A
N/A	N/A	18" TO 28" CHANNEL

OVERHANG SCHEDULE

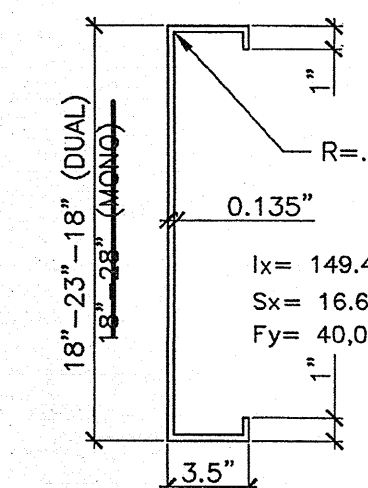
JOIST	OUTRIGGER	FASCIA
L-5" x 3" x 3/8" AT 24" MAX OC	L-5" x 3" x 3/8"	L-5" x 3" x 3/8"
2-6" x 2" x 14 GA AT 24" MAX OC	C-12" x 3" x 12 GA	C-12" x 3" x 12 GA



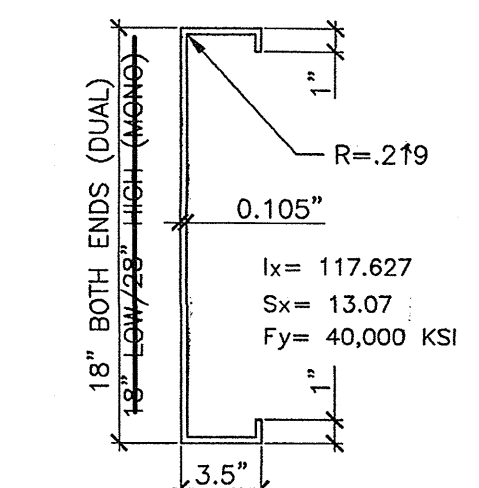
ROOF JOIST/BLOCKING
SCALE: 3" = 1'-0"



OVERHANG CHANNEL
SCALE: 3" = 1'-0"



ROOF BEAM
SCALE: 1 1/2" = 1'-0"



ROOF HEADER
SCALE: 1 1/2" = 1'-0"

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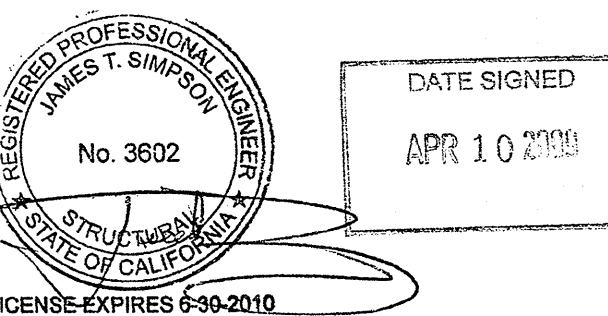
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

ROOF FRAMING
22 GAUGE

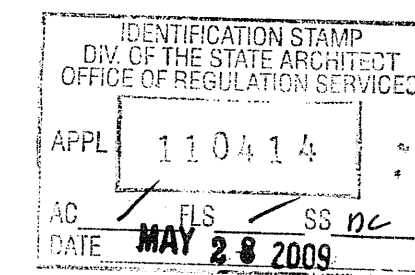
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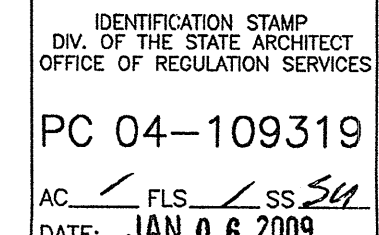
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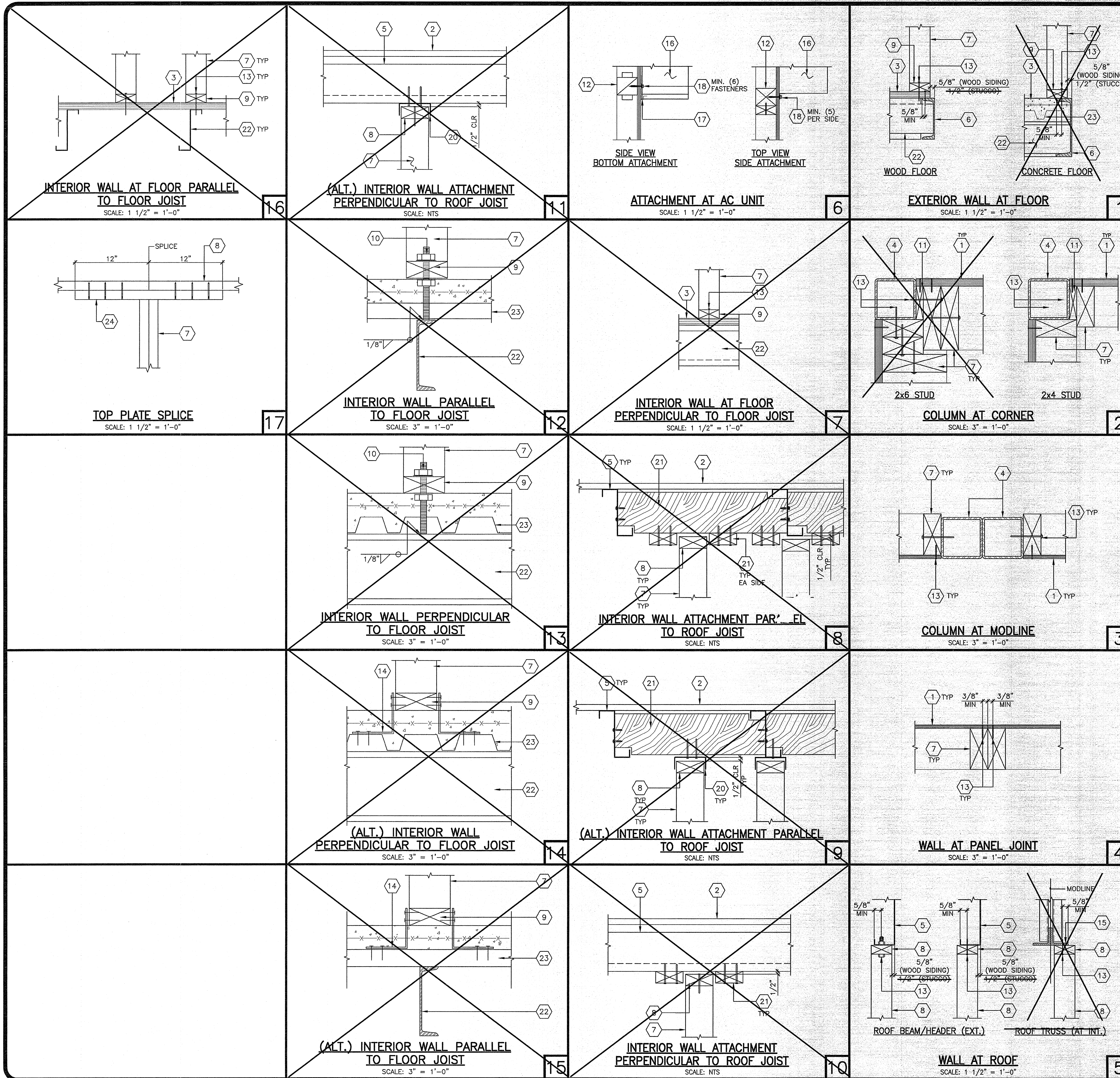
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S2.3



KEY NOTES

- EXTERIOR PLYWOOD SIDING/SHEATHING (SEE WALL FRAMING ELEVATION SHEET)
- ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
- FLOOR SYSTEM (SEE FLOOR FRAMING SHEET)
- STEEL COLUMN
- STEEL ROOF JOIST (SEE STRUCTURAL ROOF FRAMING PLAN)
- PERIMETER FLOOR FRAME (SEE STRUCTURAL FLOOR FRAMING PLAN)
- 2x FULL HEIGHT STUDS
- 2x TOP PLATE
- 2x BOTTOM PLATE (PRESSURE TREATED @ CONCRETE FLOOR OPTION)
- 1/2" Ø THREADED ROD WELD TO FLOOR JOIST OR BLOCKING. FASTEN TO SILL PLATE (2) NUTS & (2) WASHERS @ 48" OC MAX
- CONTINUOUS SPACER AS REQUIRED
- 4x POST / BLOCKING. SEE WALL FRAMING ELEVATION SHEET
- FASTENERS (SEE WALL FRAMING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
- GAVL L-3 1/2" X 3 1/2" X 1/4" X 6" LONG ANGLE @ 24" OC STAGGERED, ATTACHED TO WALL AND METAL FLOOR DECK WITH (2) #10 SMS, 24" MIN FROM END OF WALL OR SPLICE
- TRUSS BOTTOM CHORD
- WALL MOUNTED AC UNIT (SEE MECHANICAL PLANS)
- 16 GAX24" LONG STEEL BOTTOM BRACKET AT AC
- 3/8" Ø X 2 1/2" LAG BOLTS, QUANTITY INDICATED BY PRE DRILLED HOLES ON AC UNIT
- 2x6 BLOCKING @ 48" OC W/ (2) #10x1 1/2" STS EACH END OF BLOCKING, NOTCH AS REQUIRED
- CONTINUOUS C-3 1/2" X 1 5/8" X 20 GA TRACK, SECURED TO MEMBERS W/ (2) #10 STS AT ROOF JOIST OR (2) 16d NAILS INTO 2x BLOCK TYP
- CONTINUOUS 2x BLOCKING @ EACH SIDE OF TOP PLATE WITH (2) 16d NAILS TO EACH BLOCKING @ 48" OC OR (2) #10 STS TO EACH JOIST TYPICAL
- FLOOR JOIST MEMBER OR BLOCKING (SEE FLOOR FRAMING PLAN)
- METAL FLOOR DECK
- 2x BLOCK AT SPLICE LOCATION. SECURE 2x BLOCK WITH (6) 16d NAILS AT EACH SIDE.

GENERAL NOTES

- SEE WALL FRAMING ELEVATION SHEET S3.2 FOR NAILING SCHEDULE

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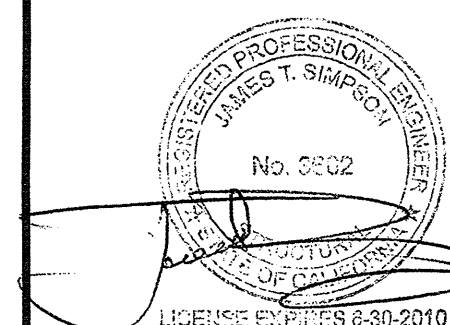
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

WALL FRAMING DETAILS WOOD STUDS

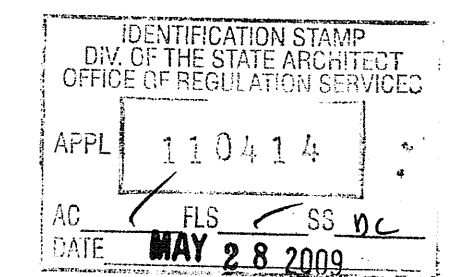
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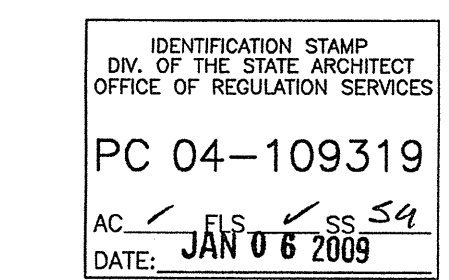
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S3.0

WOOD STUD WALL FRAMING SCHEDULE				
EXTERIOR	GRADE	SIZE	SPACING	BLDG CORNER SPACING
WOOD SIDING	HF #2/BF #2	SHEET A0.2	16" OC	12" OC WITHIN 72" OF CORNER
STUCCO	HF #2/BF #2	SHEET A0.2	12" OC	8" OC WITHIN 72" OF CORNER

WOOD STUD WALL OPENING SCHEDULE					
OPENING	FULL HT/JAMB STUD	TRIMMER	HEADER	SILL	BLOCKING
WINDOWS					
8'x4'	STUCCO (4) EACH SIDE [*]	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(3) EACH SIDE [*]	(1) EACH SIDE	(2) FLAT	(2) FLAT	-
8'x2'	STUCCO (4) EACH SIDE [*]	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(3) EACH SIDE [*]	(1) EACH SIDE	(2) FLAT	(2) FLAT	-
6'x4'	STUCCO (4) EACH SIDE [*]	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(3) EACH SIDE [*]	(1) EACH SIDE	(2) FLAT	(2) FLAT	-
4'x4'	STUCCO (3) EACH SIDE	(1) EACH SIDE	(2) FLAT	(2) FLAT	-
WOOD	(2) EACH SIDE	(1) EACH SIDE	(2) FLAT	(2) FLAT	-
DOORS					
3'x7'	STUCCO (3) EACH SIDE	(1) EACH SIDE	(2) FLAT	-	-
WOOD	(3) EACH SIDE	(1) EACH SIDE	(2) FLAT	-	-
6'x7'	STUCCO (5) EACH SIDE	(1) EACH SIDE	(2) FLAT	-	-
WOOD	(4) EACH SIDE	(1) EACH SIDE	(2) FLAT	-	-
AC					
ALL	(1) 4x4 POST EACH SIDE	-	(1) FLAT AT RETURN	(1) FLAT AT RETURN	4x4

WOOD STUD WALL FRAMING SCHEDULE		
TOP PLATE	BOTTOM PLATE	JAMB STUD TO COLUMN
'HILT' X-CP 72 0.145" SHOT PIN AT 12" MAX OC PER ICC REPORT # ESR-2379	'HILT' X-CP 72 0.145" SHOT PIN AT 12" MAX OC PER ICC REPORT # ESR-2379	'HILT' X-U 0.157" SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR-2269
ALT: 1/2" MACHINE BOLTS AT 32" MAX OC	ALT: 16d NAILS AT 8" MAX OC, 6" MAX OC AT CORNERS	

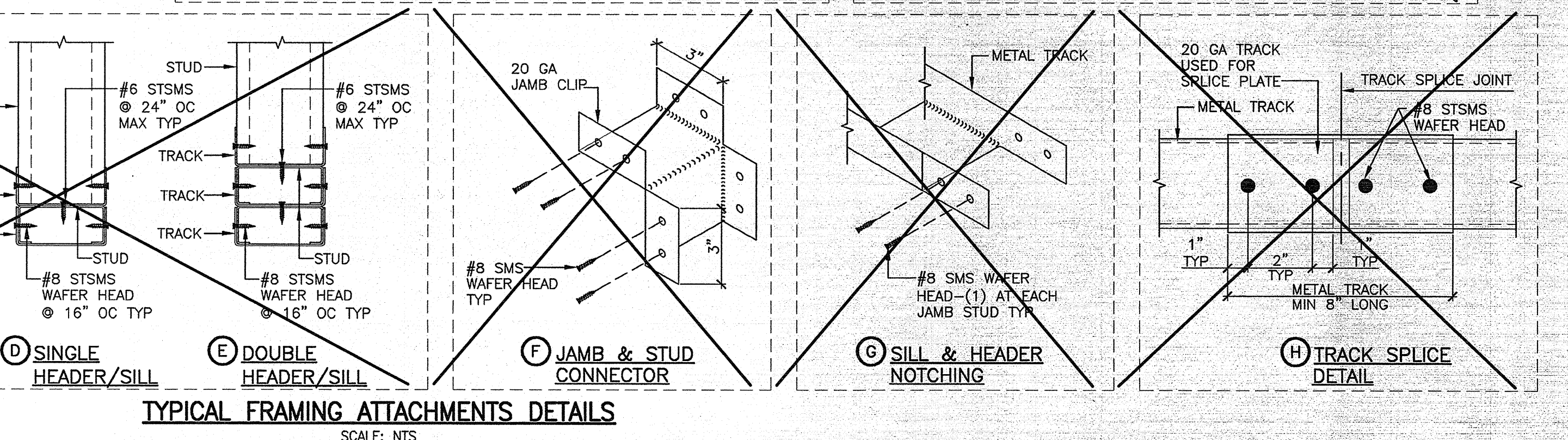
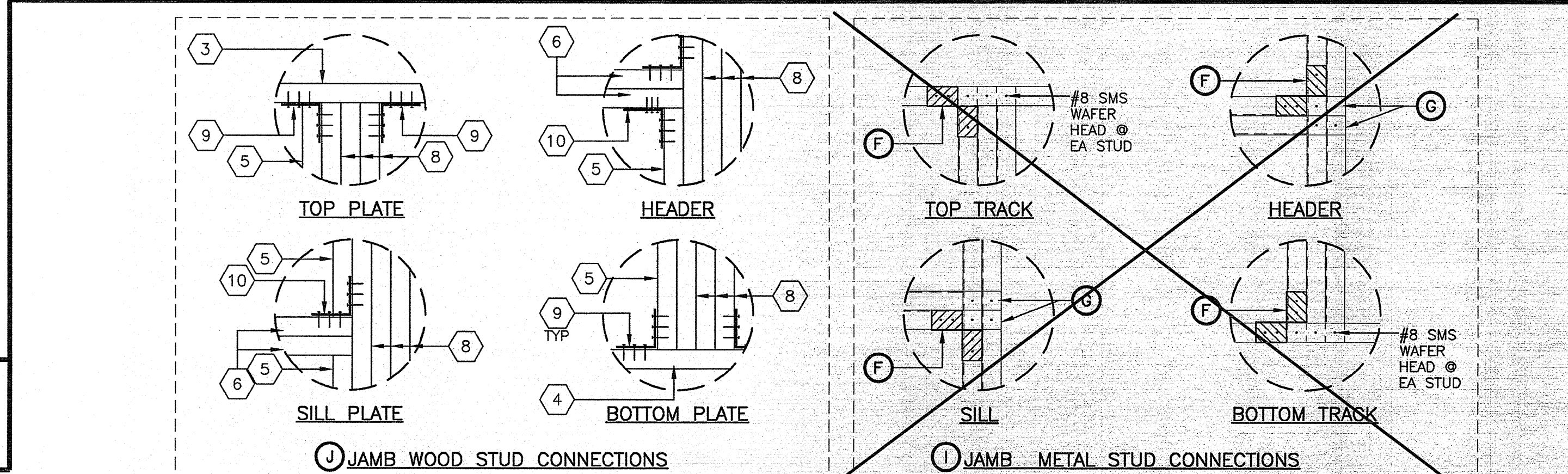
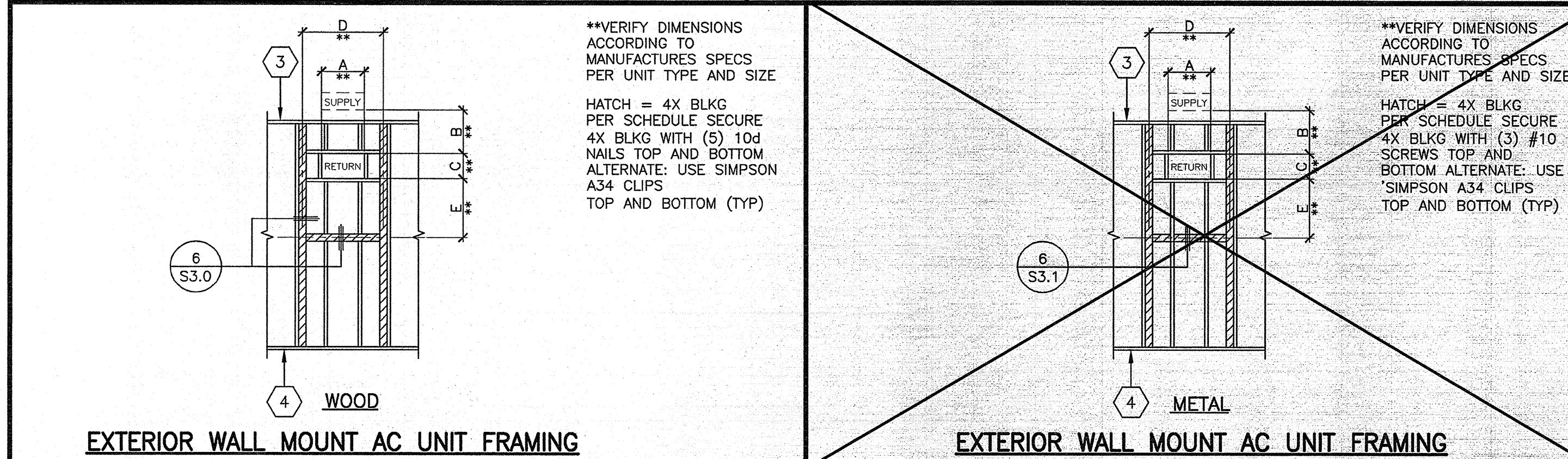
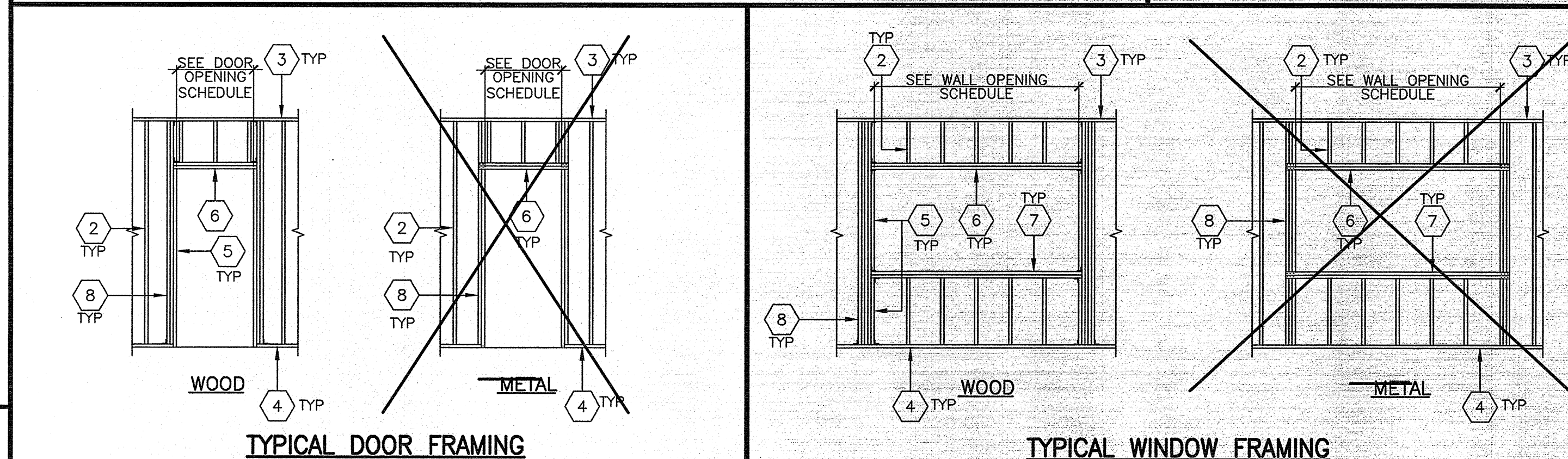
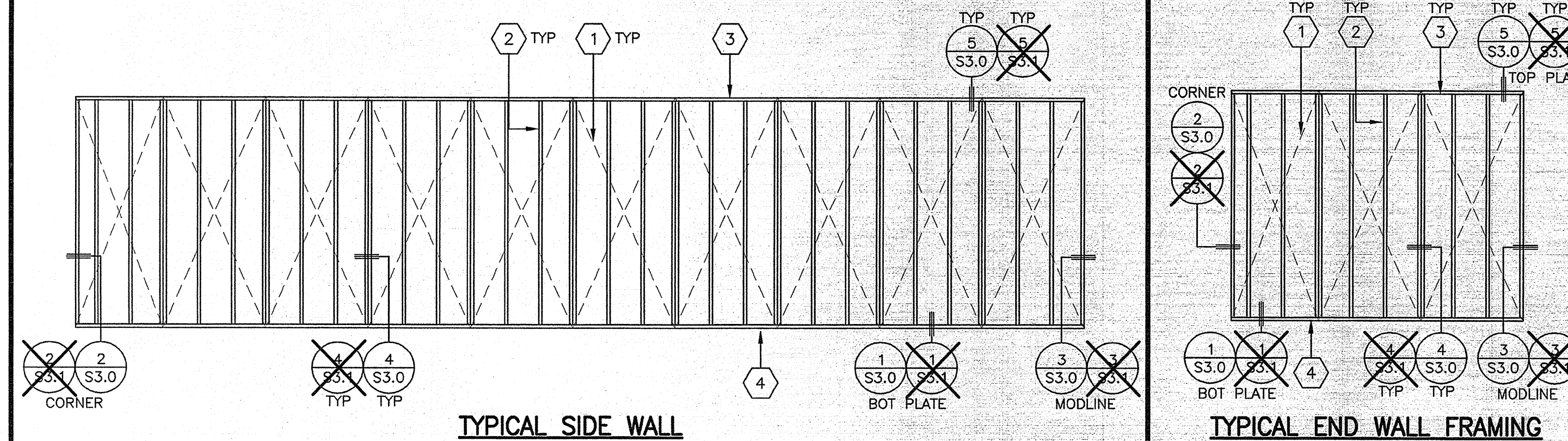
METAL STUD WALL FRAMING SCHEDULE				
EXTERIOR	GAUGE	SIZE	SPACING	BLDG CORNER SPACING
WOOD SIDING	20	SHEET A0.2	16" OC	12" OC WITHIN 48" OF CORNER
STUCCO	20	SHEET A0.2	16" OC	12" OC WITHIN 60" OF CORNER

METAL STUD WALL OPENING SCHEDULE				
OPENING	FULL HT/JAMB STUD	HEADER TRACK	SILL TRACK	BLOCKING
WINDOWS				
8'x4'	STUCCO (4) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
WOOD	(3) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
8'x2'	STUCCO (4) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
WOOD	(3) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
6'x4'	STUCCO (4) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
WOOD	(3) EACH SIDE	(D) DOUBLE	(D) DOUBLE	-
4'x4'	STUCCO (2) EACH SIDE [*]	(E) SINGLE	(E) SINGLE	-
WOOD	(2) EACH SIDE	(E) SINGLE	(E) SINGLE	-
DOORS				
3'x7'	STUCCO (2) EACH SIDE	(E) SINGLE	-	-
WOOD	(2) EACH SIDE	(E) SINGLE	-	-
6'x7'	STUCCO (4) EACH SIDE	(D) DOUBLE	-	-
WOOD	(3) EACH SIDE	(D) DOUBLE	-	-
AC				
ALL	(1) 4x4 POST EACH SIDE	SINGLE AT RETURN	SINGLE AT RETURN	4x4

METAL STUD WALL FRAMING SCHEDULE		
TOP TRACK	BOTTOM TRACK	JAMB STUD TO COLUMN
'HILT' X-CP 72 0.145" SHOT PIN AT 12" MAX OC PER ICC REPORT # ESR-2379	#12 STS AT 8" MAX OC	'HILT' X-U 0.157" SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR-2269
ALT: 1/2" MACHINE BOLTS AT 32" MAX OC OR #10 STS AT 16" MAX OC	ALT: 'HILT' X-CP 72 0.145" SHOT PIN AT 12" MAX OC PER ICC REPORT # ESR-2379	ALT: #10 STS AT 24" MAX OC

FRAMING NOTES

NOTE: FOR EXACT OPENING, WALL SIZE LOCATIONS SEE FLOOR PLAN
[*] = ADD (1) ADDITIONAL FULL HT JAMB STUD (EACH SIDE) AT BUILDING CORNER



KEY NOTES

- EXTERIOR PLYWOOD SIDING (DURATEMP) OR 1/2" CD-X PLYWOOD SHEATHING:
TO WOOD STUDS USE CORROSION RESISTANT 8d BOX NAILS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD.
TO METAL STUDS USE #10 STS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD.
- 2x OR METAL FULL HEIGHT STUDS
- 2x TOP PLATE OR METAL TRACK
- 2x BOTTOM PLATE/ METAL TRACK (PRESSURE WOOD TREATED @ CONCRETE FLOOR OPTION)
- 2x OR METAL STUD TRIMMER - TYPICAL AT OPENINGS
- HEADER (SEE WALL OPENING SCHEDULE)
- WINDOW SILL (SEE WALL OPENING SCHEDULE)
- JAMB STUD (SEE WALL OPENING SCHEDULE)
- 'SIMPSON' A35 CLIP AT OPENINGS GREATER THAN 48"
- 'SIMPSON' A34 CLIP

GENERAL NOTES

- WOOD STUD ATTACHMENT**
- JOIST TO SILL OR GIRDER, TOENAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14GA STAPLES
 - BRIDGING TO JOIST, TOENAIL EACH END: 2-8d COMMON (2.5"x0.131"); 2-3"x0.131" NAILS; 2-3" 14GA STAPLES
 - 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL: 2-8d COMMON (2.5"x0.131")
 - WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL: 3-8d COMMON (2.5"x0.131")
 - 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL: 2-16d COMMON (3.5"x0.162")
 - SOLE PLATE TO JOIST OR BLOCKING, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 8" OC; 3" 14 GA STAPLES @ 12" OC
 - SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL, BRACED WALL PANELS: 3-16d (3.5"x0.135") @ 16"; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES PER 16"
 - TOP PLATE TO STUD, END NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - STUD TO SOLE PLATE, TOENAIL: 4-8d COMMON (2.5"x0.131"); 4-3"x0.131 NAILS; 3-3" 14 GA STAPLES END NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - DOUBLE STUDS, FACE NAIL: 16d (3.5"x0.135") @ 24" OC; 3"x0.131" NAIL @ 8" OC; 3" 14 GA STAPLE @ 8" OC
 - DOUBLE TOP PLATES, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 12" OC; 3" 14 GA STAPLES @ 12" OC
 - DOUBLE TOP PLATES, LAP SPlice: 8-16d COMMON (3.5"x0.162"); 12-3"x0.131" NAILS; 12-3" 14 GA STAPLES
 - BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - RIM JOIST TO TOP PLATE, TOENAIL: 8d (2.5"x0.131") @ 6" OC; 3"x0.131" NAIL @ 6" OC; 3" 14 GA STAPLE @ 6" OC
 - TOP PLATES, LAP & INTERSECTION, FACE NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - CONTINUOUS HEADER, TWO PIECES, 16" OC ALONG EDGE: 16d COMMON (3.5"x0.162")
 - CEILING JOIST TO PLATE, TOENAIL: 3-8d COMMON (2.5"x0.131"); 5-3"x0.131" NAILS; 5-3" 14 GA STAPLES
 - CONTINUOUS HEADER TO STUD, TOENAIL: 4-8d COMMON (2.5"x0.131")
 - CEILING JOISTS, LAP OVER PARTITIONS (SEE SECT 2308.10.4.1, TABLE 2308.10.4.1), FACE NAIL: 3-16d COMMON (3.5"x0.162") MIN, TABLE 2308.10.4.1; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - CEILING JOIST TO PARALLEL RAFTERS (SEE SECT 2308.10.4.1, TABLE 2308.10.4.1), FACE NAIL: 3-16d COMMON (3.5"x0.162") MIN TABLE 2308.10.4.1; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - RAFTER TO PLATE (SEE SECT 2308.10.1, TABLE 2308.10.4.1), FACE NAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - 1" DIAGONAL BRACE TO EACH STUD AND PLATE, FACE NAIL: 2-8d COMMON (2.5"x0.131"); 2-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - 1"x8" SHEATHING TO EACH BEARING, FACE NAIL: 3-8d COMMON (2.5"x0.131")
 - WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL: 3-8d COMMON (2.5"x0.131")
 - BUILT-UP CORNER STUDS: 16d COMMON (3.5"x0.162") 24" OC; 3"x0.131" NAILS 16" OC; 3" 14 GA STAPLES 16" OC
 - BUILT-UP GIRDER AND BEAMS, FACE NAIL @ TOP & BOT STAGGERED ON OPP SIDES: 20d COMMON (4"x0.192") 32" OC; 3"x0.131" NAILS @ 24" OC; 3" 14 GA STAPLE @ 24" OC, FACE NAIL @ END & AT EACH SPlice: 2-20d COMMON (4"x0.192"); 3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - 2" PLANKS, @ EACH BEARING: 16d COMMON (3.5"x0.162")
 - COLLAR TIE TO RAFTER, FACE NAIL: 3-10d COMMON (3"x0.148"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - JACK RAFTER TO HIP, TOENAIL: 3-10d COMMON (3"x0.148"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - FACE NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
 - 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - JOIST TO BAND JOIST, FACE NAIL: 3-16d COMMON (3.5"x0.162"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - LEADER STRIP, FACE NAIL: 3-16d COMMON (3.5"x0.162"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
 - WOOD STRUCTURAL PANELS & PARTICLEBOARD SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING), 1/2" AND LESS: 6d^{CS}; 2-3/8"x0.113" NAIL; 1 3/4" 16 GA 19/32 TO 3/4"; 8d^{CS} OR 6d^{CS}; 2-3/8"x0.113" NAIL; 2" 16 GA 7/8" TO 1": 8d^{CS} 1-1/8" TO 1-1/4"; 10d^{CS} OR 8d^{CS}
 - SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING), 3/4" AND LESS: 6d^{CS} 7/8" TO 1"; 8d^{CS} 1-1/8" TO 1-1/4"; 10d^{CS} OR 8d^{CS}
 - PANEL SIDING (TO FRAMING), 1/2" OR LESS: 6d^{CS}; 5/8": 8d^{CS}
 - FIBERBOARD SHEATHING 5/16" #11 GA ROOFING NAIL; 6d COMMON NAIL (2"x0.113"); #16 GA STAPLE; #11 GA ROOFING NAIL; 8d COMMON NAIL (2.5"x0.131"); #16 GA STAPLE
 - INTERIOR PANELING, 1/4": 4d; 3/8": 6d

FOOTNOTES

- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED
- NAILS SPACED @ 6" OC AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS. REFER TO SECTION 2305 NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING
- COMMON OR DEFORMED SHANK (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
- COMMON (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
- DEFORMED SHANK (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
- CORROSION RESISTANT SIDING (6d: 1-7/8"x0.106"; 8d: 2-3/8"x0.128") OR CASING (6d: 2"x0.099"; 8d: 2.5"x0.113") NAIL
- FASTENERS SPACED 3" OC AT EXT EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6" OC ON THE EDGES & 12" OC AT THE INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS
- CORROSION RESISTANT ROOFING NAILS WITH 7/16" HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING
- CORROSION RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS @ 16" (20" IF THE STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED)
- CASING (1.5"x0.080") OR FINISH (1.5"x0.072) NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
- PANEL SUPPORTS AT 24" CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
- FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2.5"x0.113") ARE THE MIN REQUIRED FOR WOOD STRUCTURAL PANELS
- STAPLES SHALL HAVE A MIN CROWN WIDTH OF 7/16"
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" OC AT EDGES, 8" OC AT INTERMEDIATE SUPPORTS
- FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" OC AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING
- FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS

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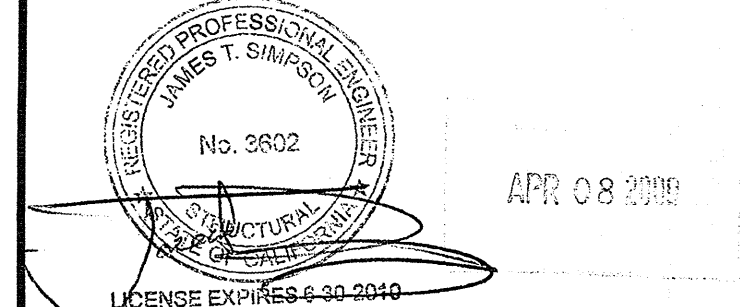
PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

WALL FRAMING ELEVATIONS

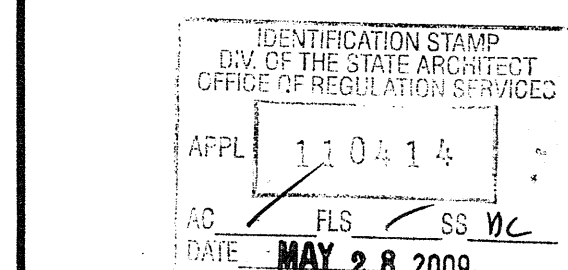
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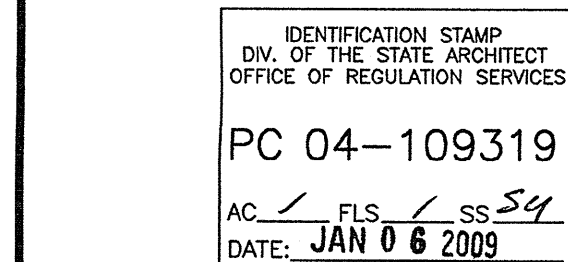
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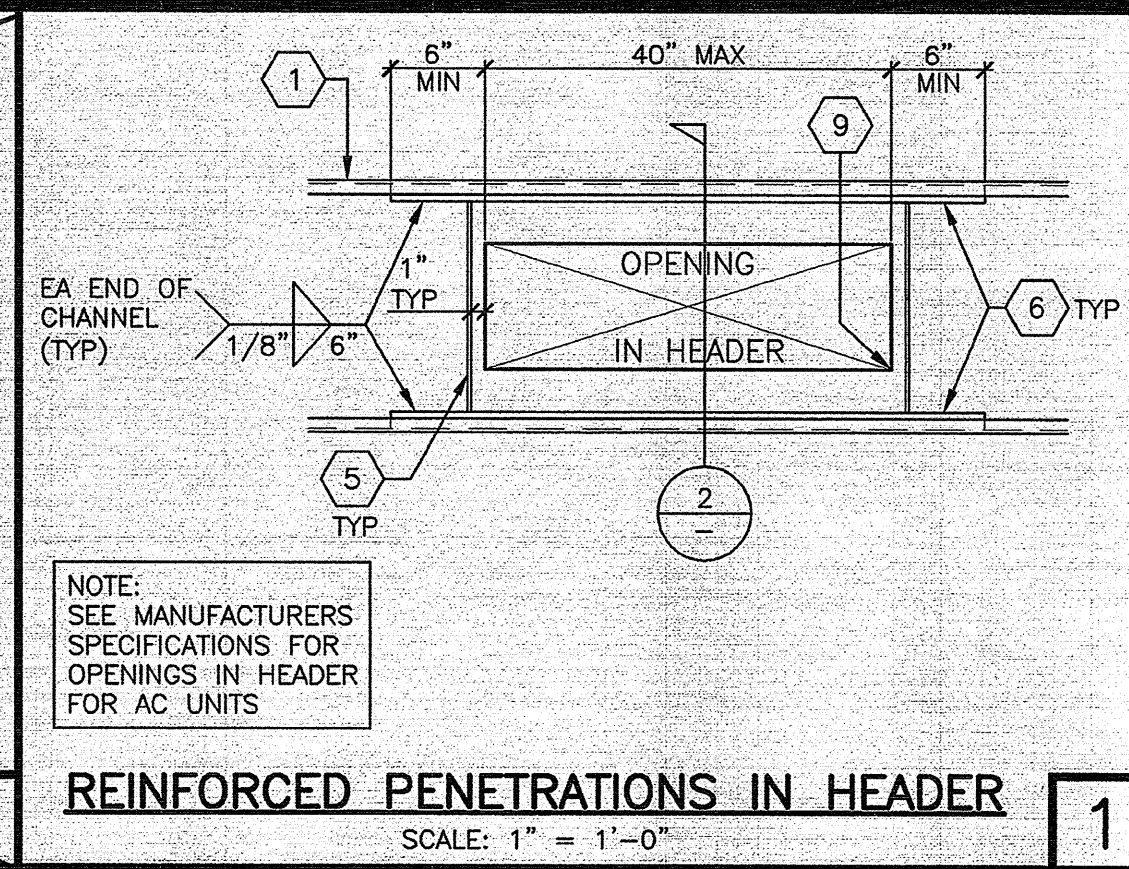
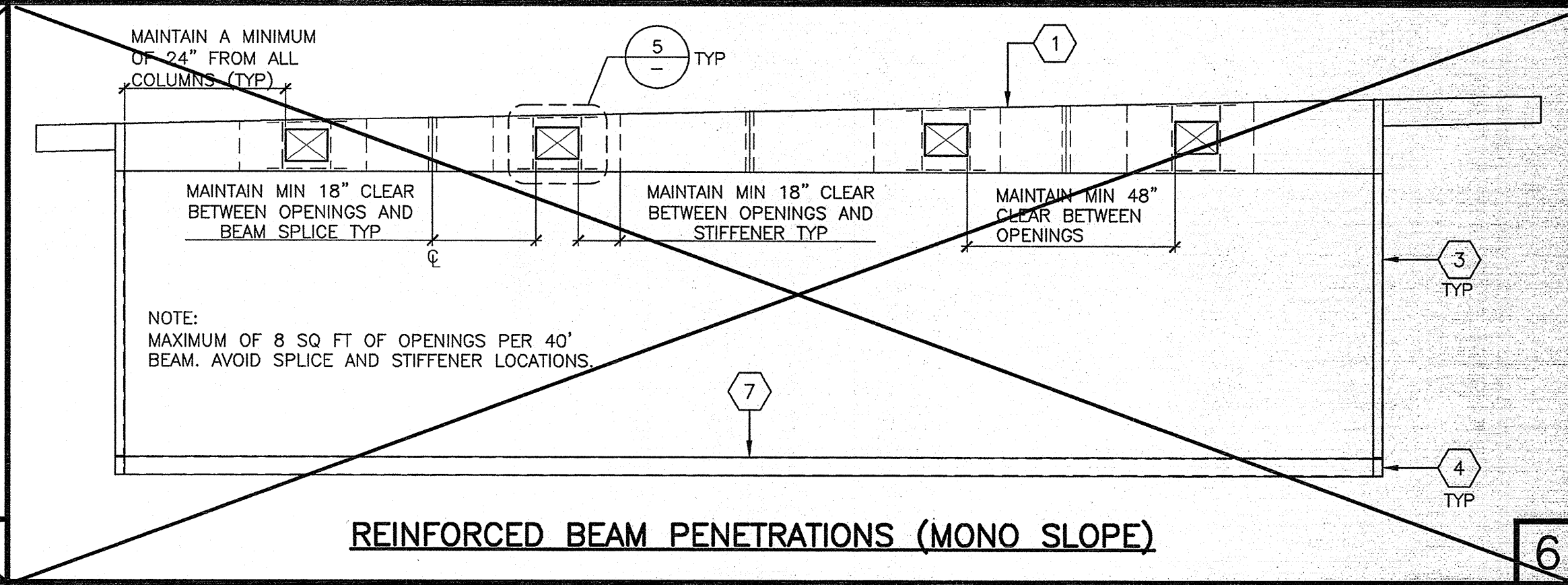
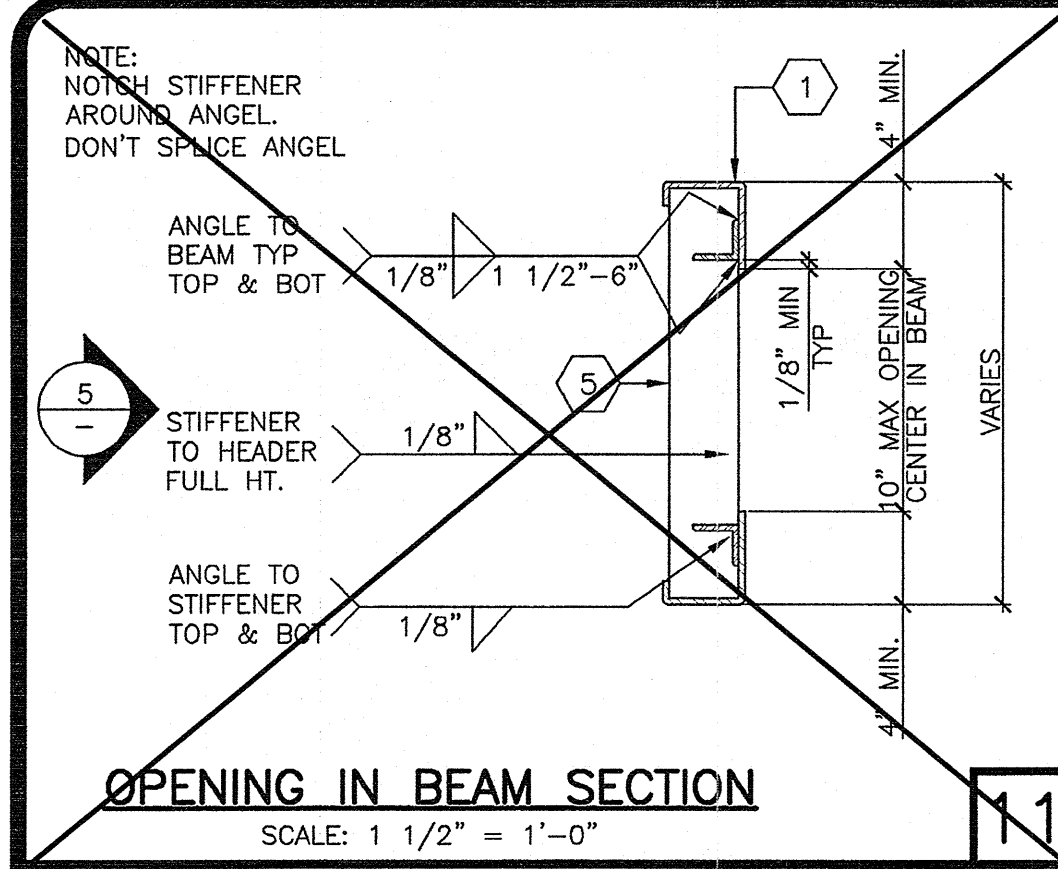


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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER

S3.2



KEY NOTES

1. ROOF HEADER/BEAM (SEE ROOF STRUCTURAL FRAMING PLAN)
2. CUT CORNERS WITH 1/4" RADIUS
3. COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
4. STUB COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
5. 1/4" STIFFENER PLATE
6. C-3 1/4" X 1" X 10 GA CHANNEL TOP AND BOTTOM
7. PERIMETER FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING SHEETS)
8. L-2" X 2" X 1/4" ANGLE TOP AND BOTTOM
9. CUT CORNERS WITH 1/4" RADIUS

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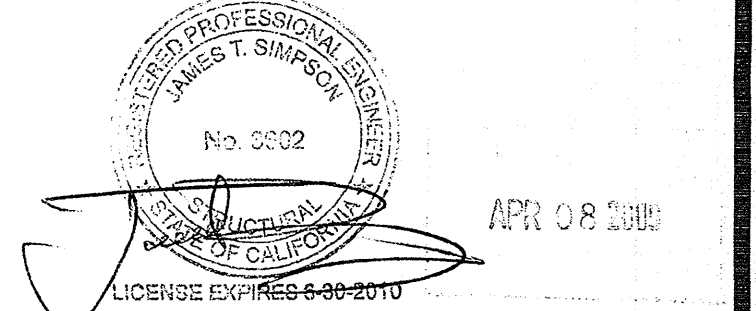
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SHEET TITLE:
ALLOWABLE BEAM AND HEADER PENETRATIONS

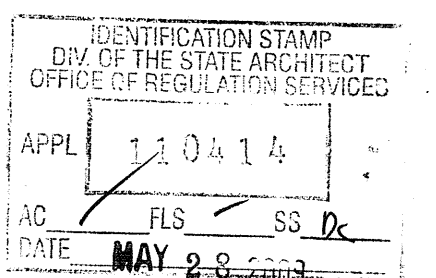
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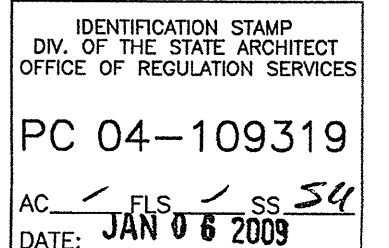
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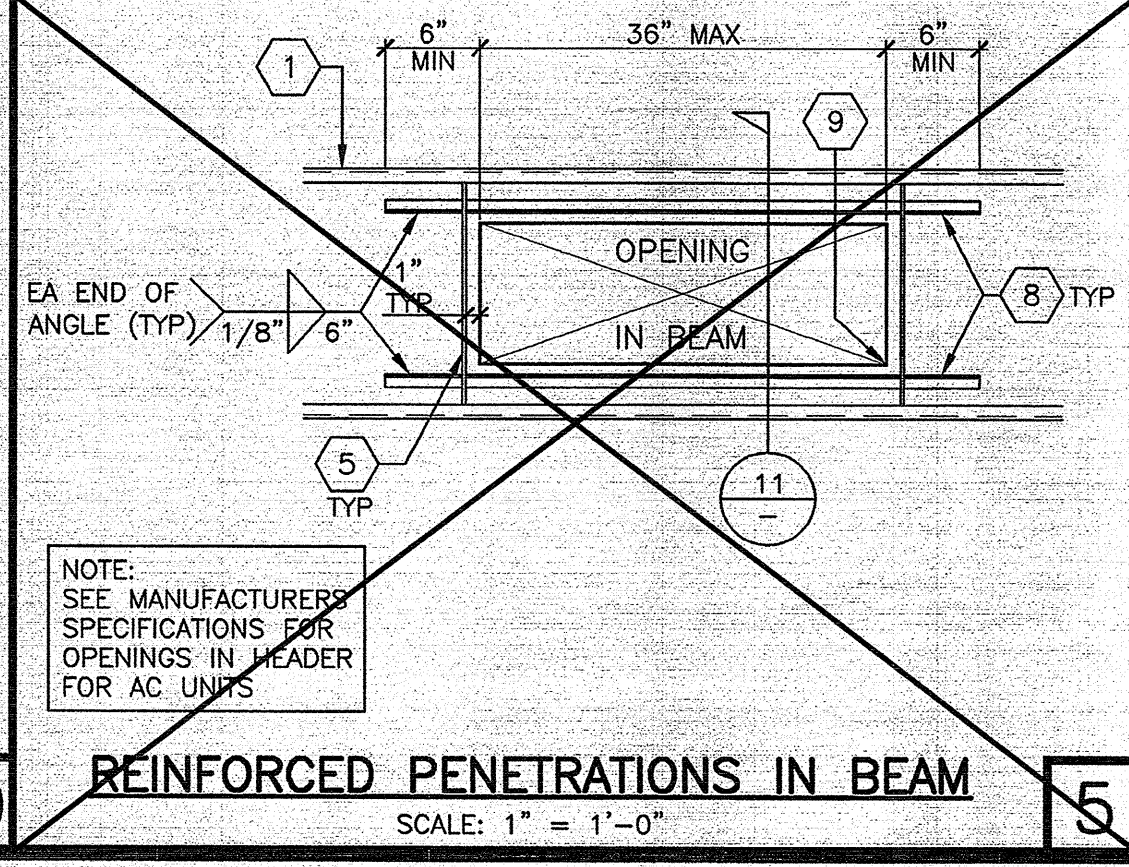
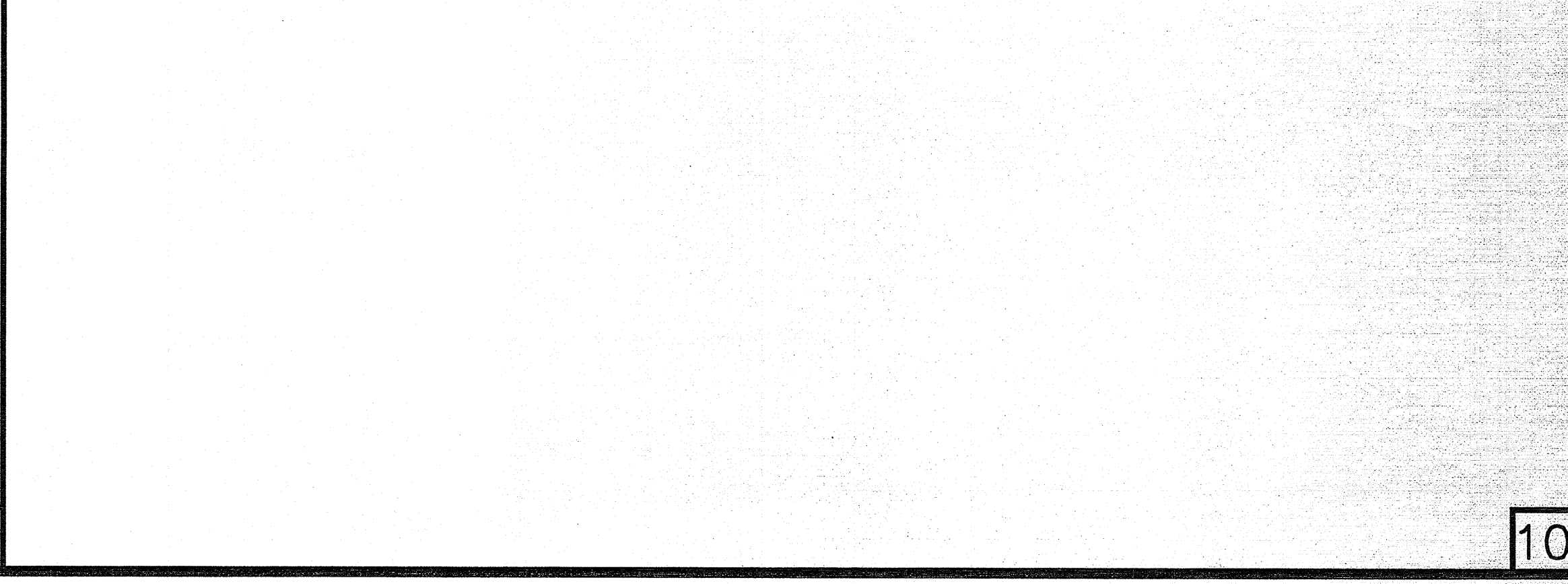
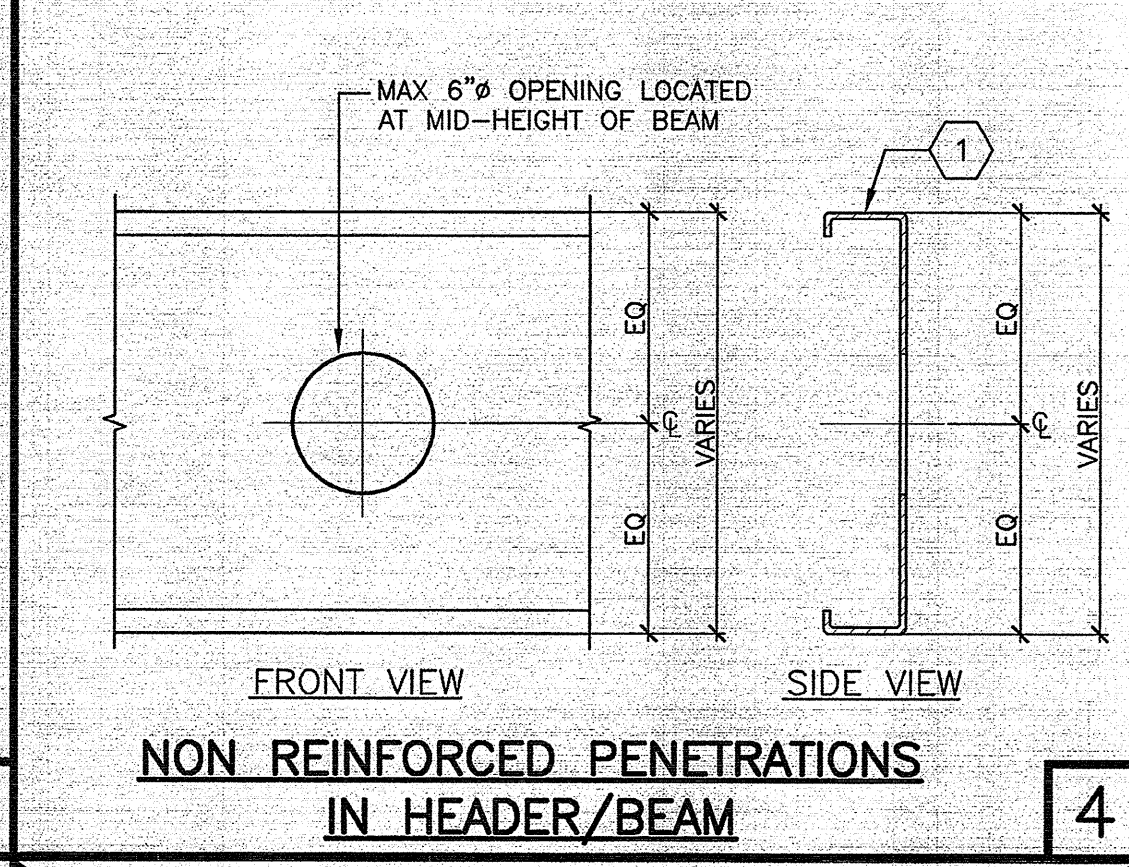
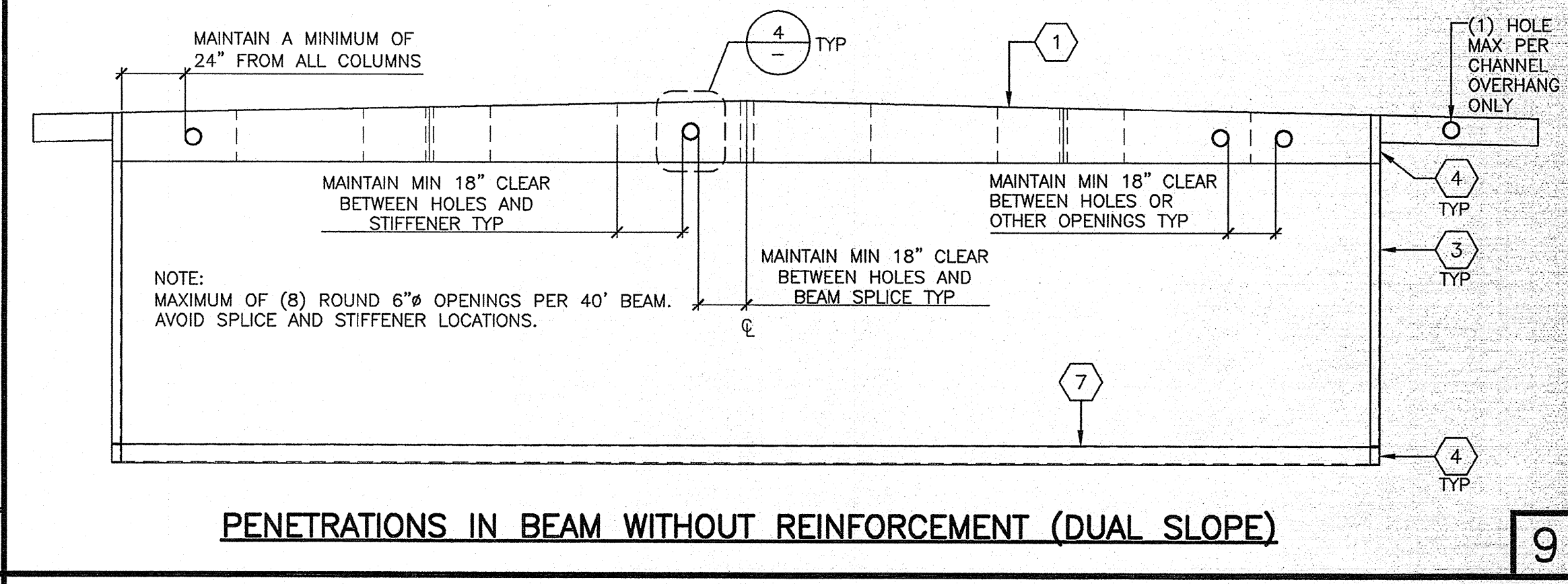
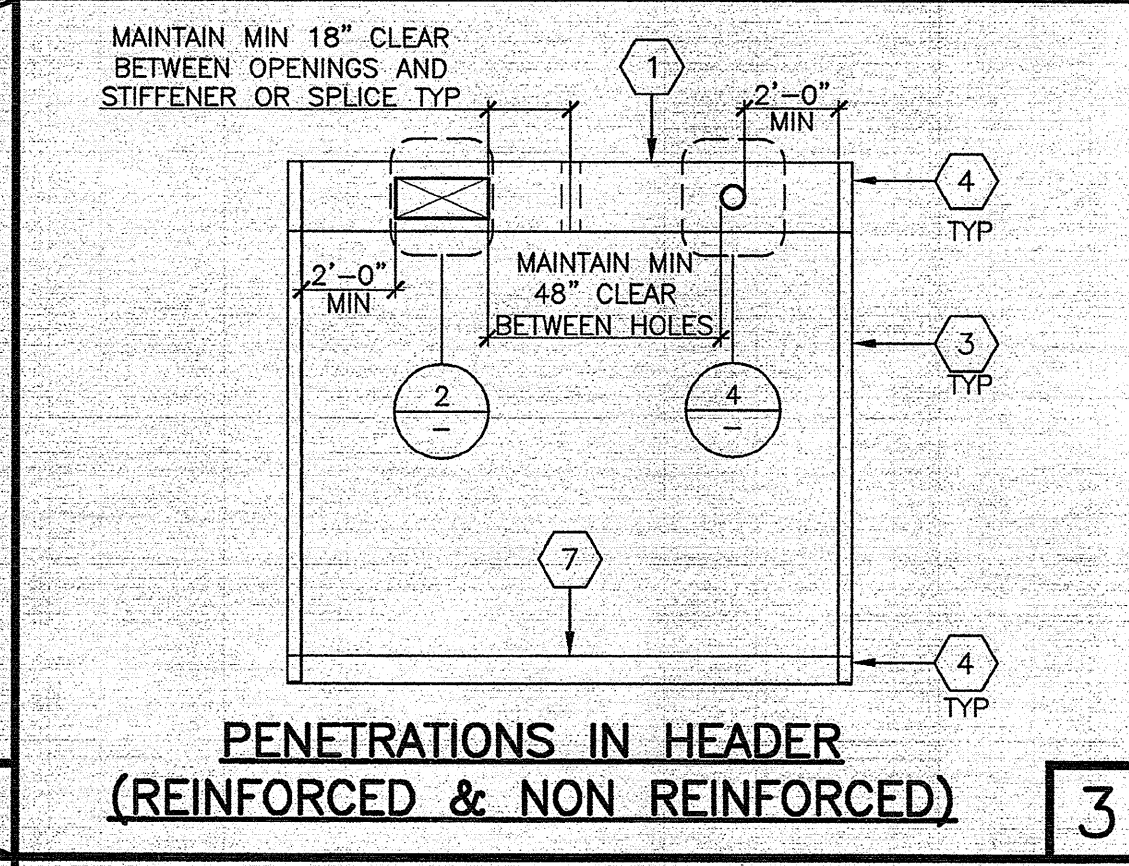
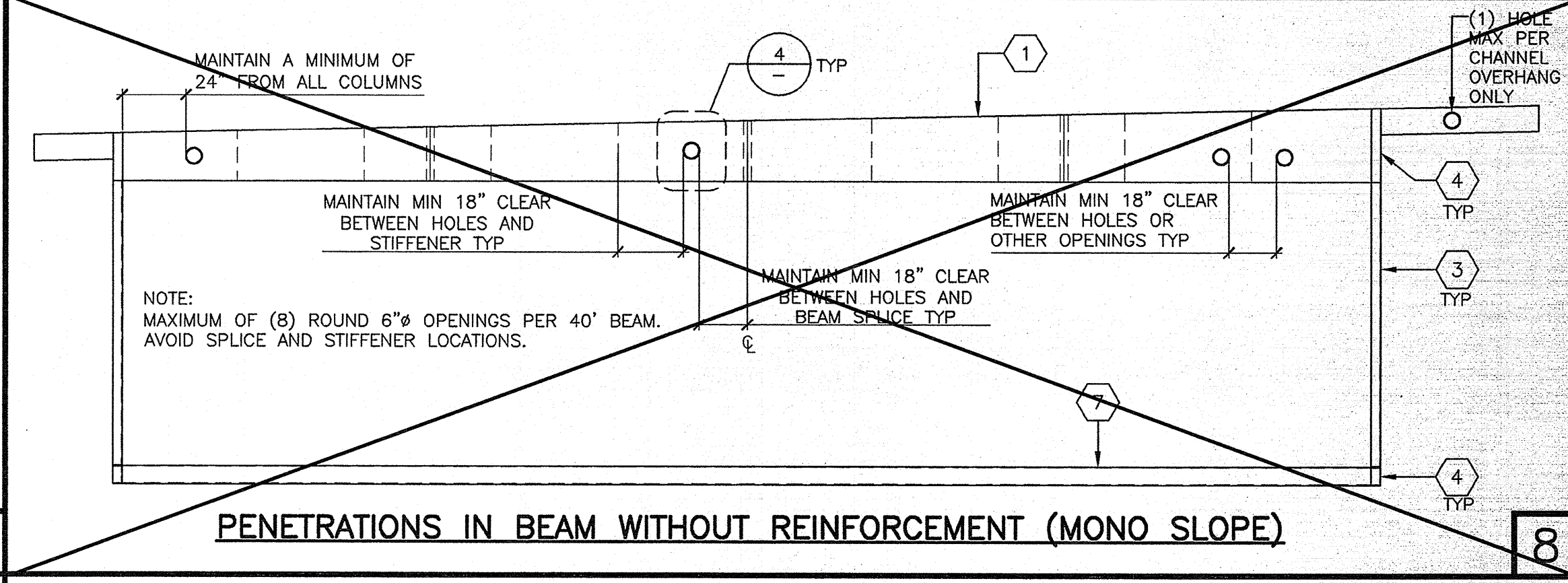
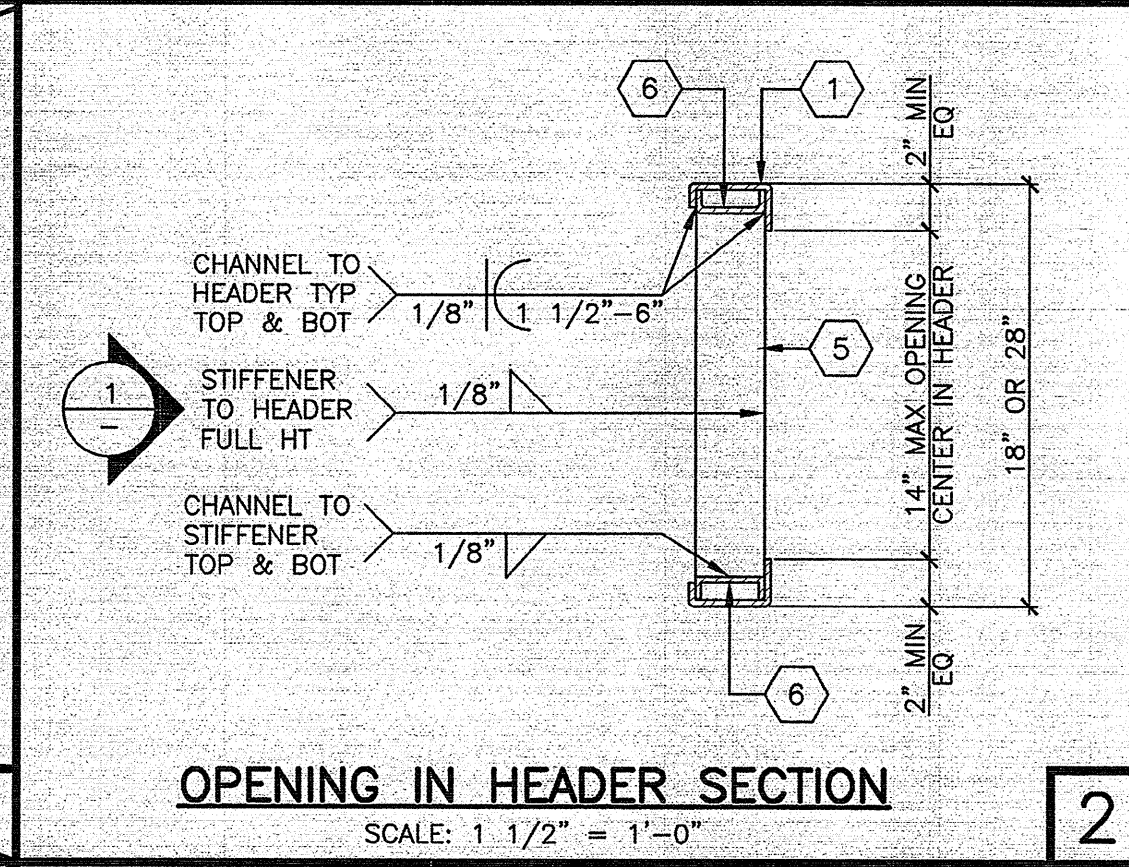
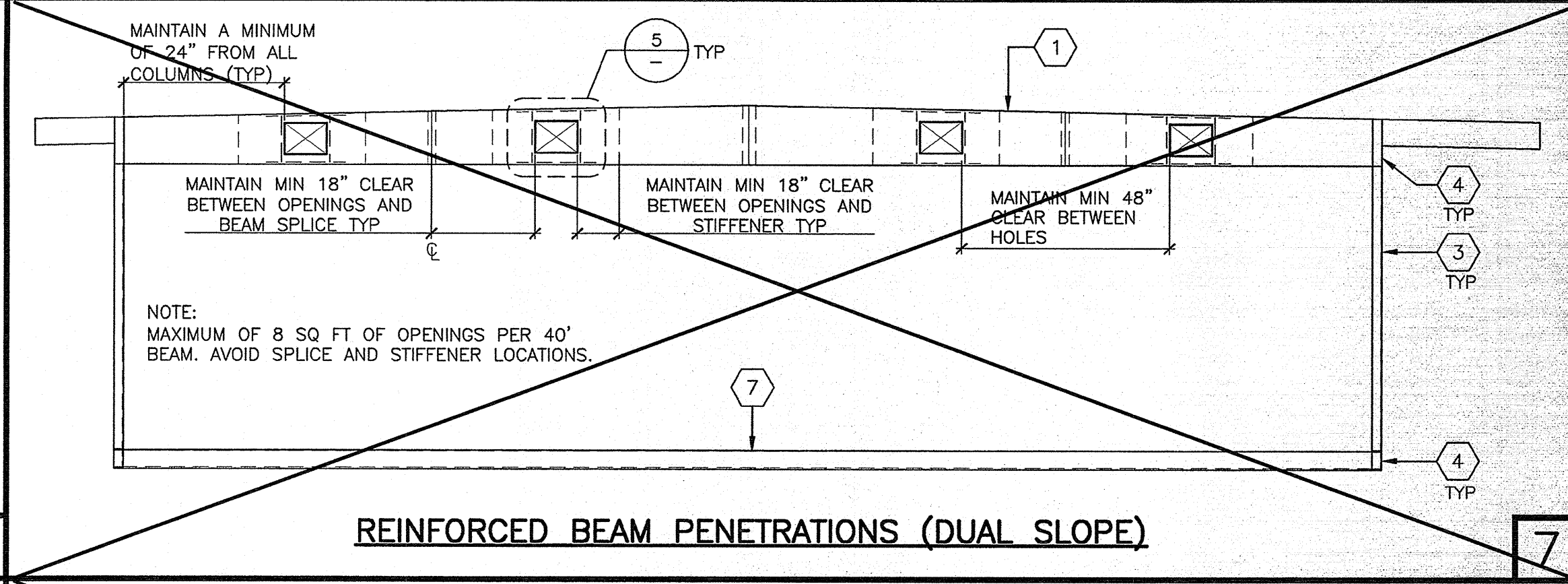


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PROJECT NO.: 09-****
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SCALE: AS NOTED
DATE: 05-22-09

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S4.0

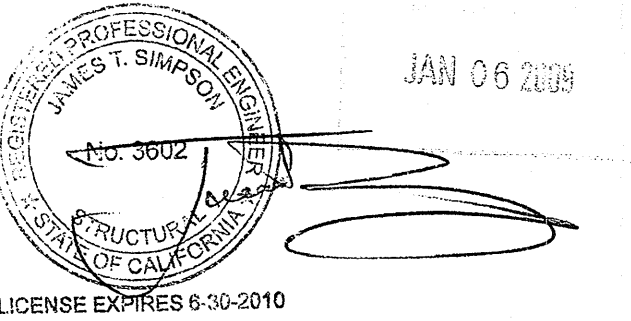


PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
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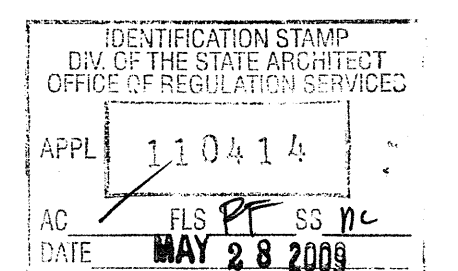
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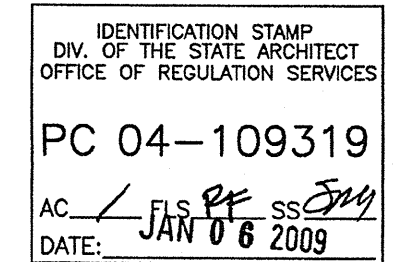
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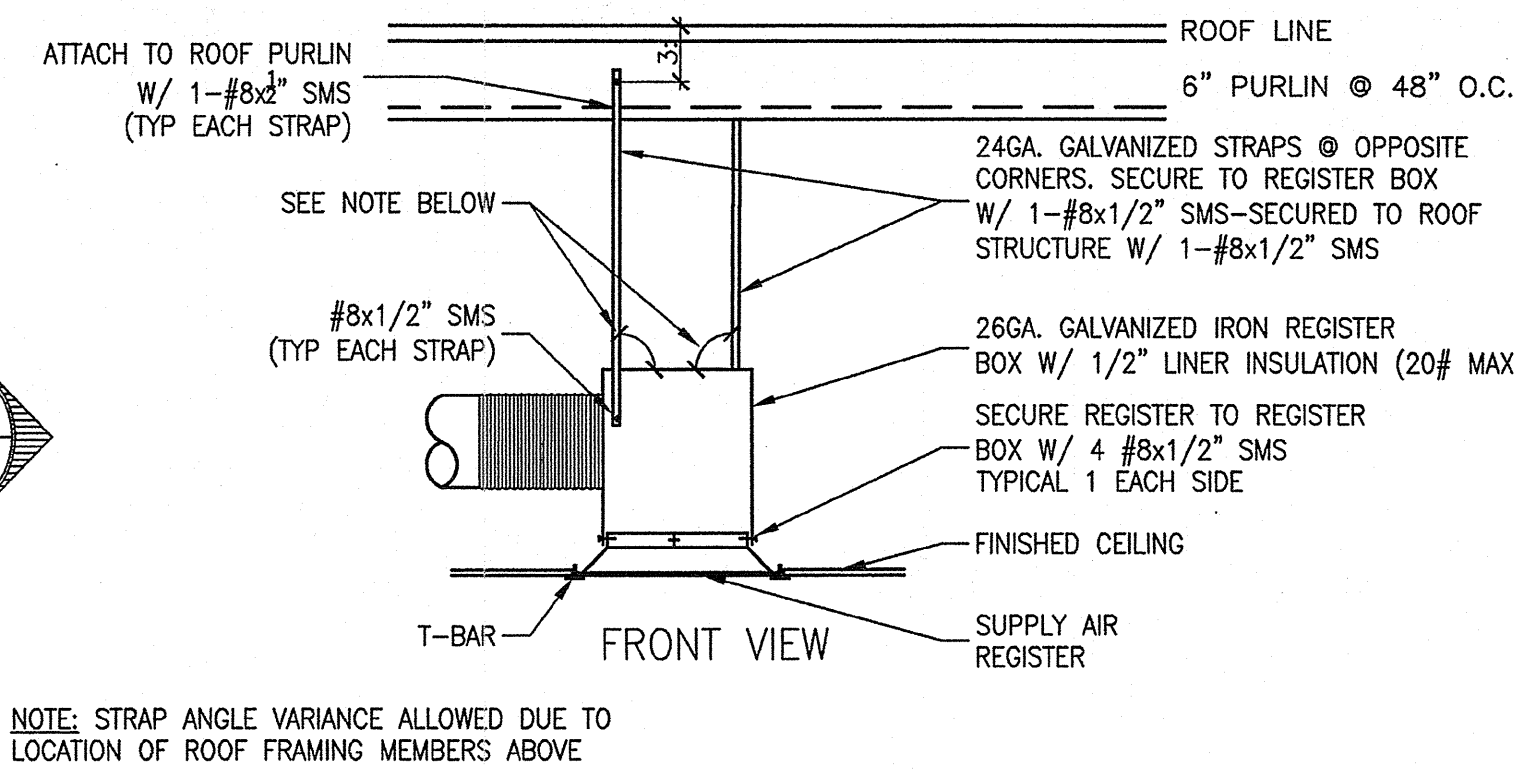
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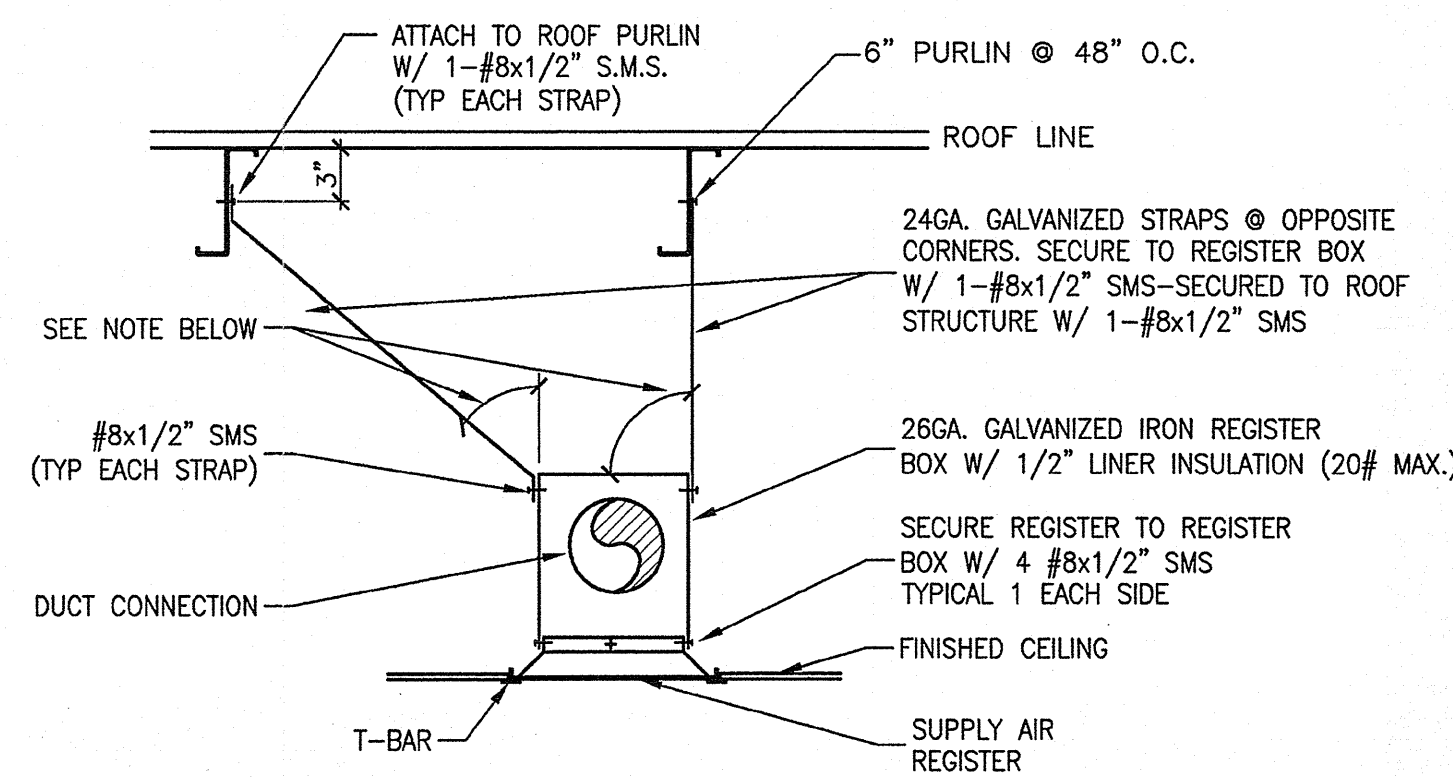
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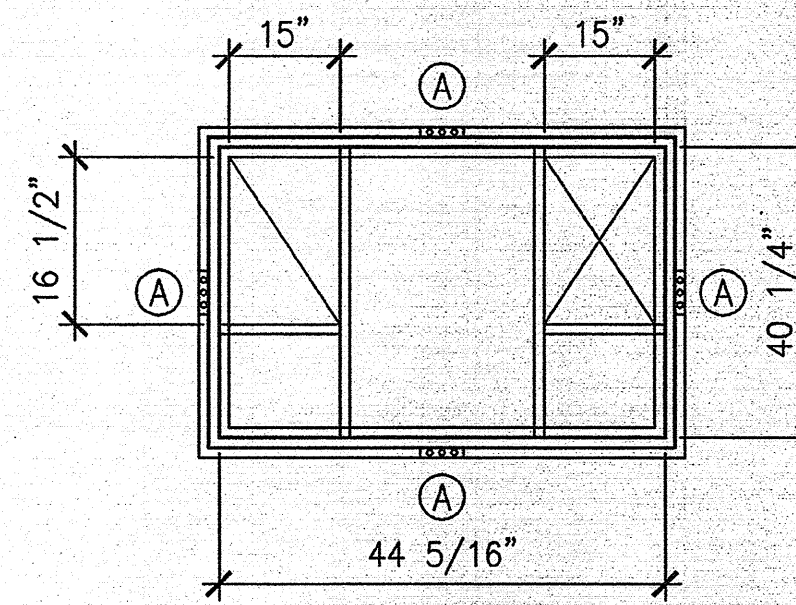
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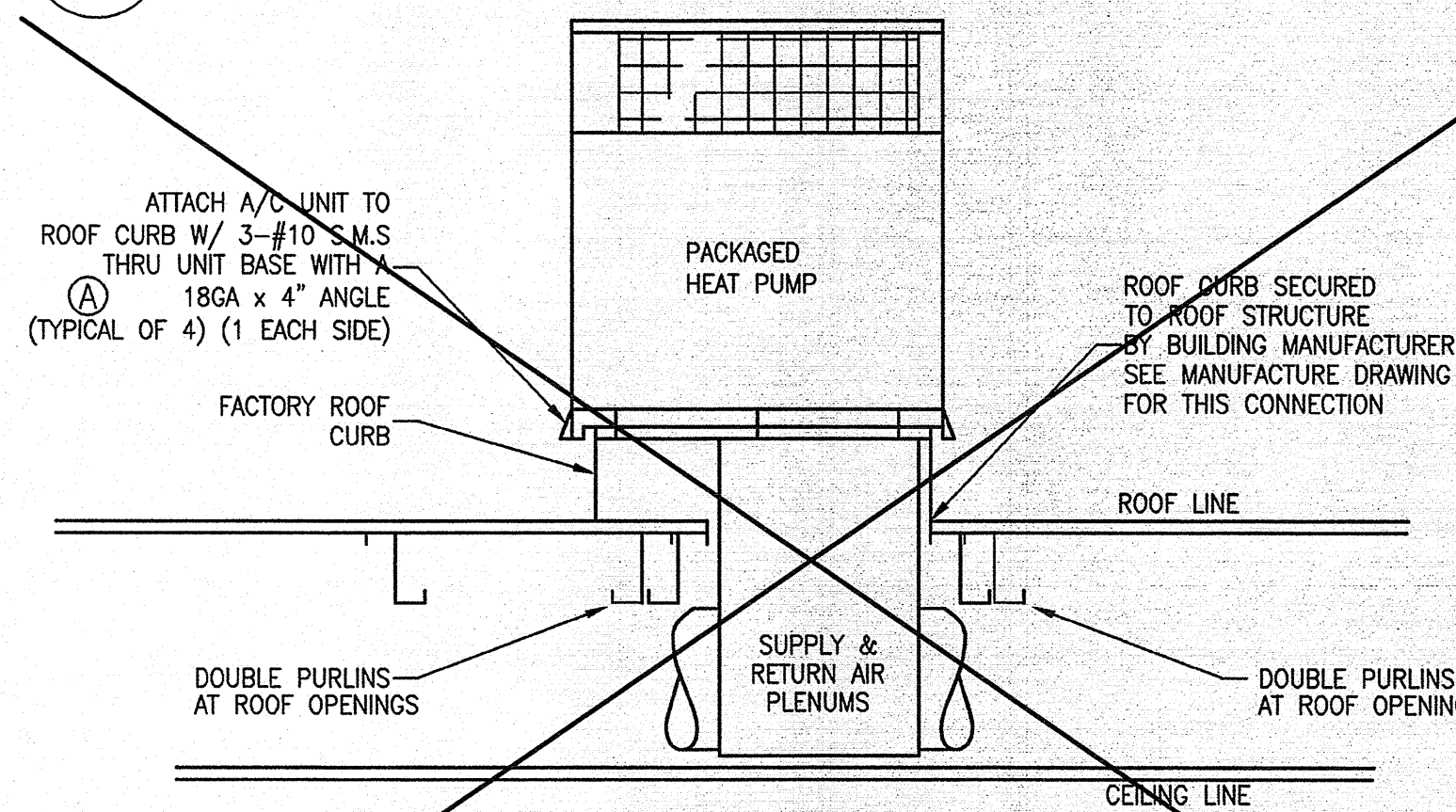
SECTION AT SUPPLY/REGISTER



SIDE VIEW AT SUPPLY/REGISTER



HEAT PUMP CURB PLAN VIEW



SECTION THRU ROOF TOP HEAT PUMP

HVAC VARIATIONS (WALL MOUNT)			
SIZE	ZONE 14	ZONE 15	ZONE 16
24X40	(1) MARVAIR HVPA42HPA050BU	(1) MARVAIR HVPA42HPA050BU	(1) MARVAIR HVPA42HPA050BU
36X40	(1) MARVAIR HVPA60HPA050BU	(1) MARVAIR HVPA60HPA050BU	(1) MARVAIR HVPA60HPA050BU
48X40	(2) MARVAIR HVPA42HPA050BU	(2) MARVAIR HVPA42HPA050BU	(2) MARVAIR HVPA42HPA050BU
60X40	(1) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(1) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(1) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU
72X40	(2) MARVAIR HVPA60HPA050BU	(2) MARVAIR HVPA60HPA050BU	(2) MARVAIR HVPA60HPA050BU
84X40	(2) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(2) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(2) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU
96X40	(4) MARVAIR HVPA42HPA050BU	(4) MARVAIR HVPA42HPA050BU	(4) MARVAIR HVPA42HPA050BU
108X40	(3) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(3) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU	(3) MARVAIR HVPA42HPA050BU (1) HVP460HPA050BU
120X40	(2) MARVAIR HVPA42HPA050BU (2) HVP460HPA050BU	(2) MARVAIR HVPA42HPA050BU (2) HVP460HPA050BU	(2) MARVAIR HVPA42HPA050BU (2) HVP460HPA050BU

HVAC VARIATIONS (ROOF MOUNT)			
SIZE	ZONE 14	ZONE 15	ZONE 16
24X40	(1) CARRIER 50SZ048-3	(1) CARRIER 50SZ048-3	(1) CARRIER 50SZ048-3
36X40	(1) CARRIER 50SZ060-3	(1) CARRIER 50SZ060-3	(1) CARRIER 50SZ060-3
48X40	(2) CARRIER 50SZ048-3	(2) CARRIER 50SZ048-3	(2) CARRIER 50SZ048-3
60X40	(1) CARRIER 50SZ060-3 (1) 50SZ060-3	(1) CARRIER 50SZ048-3 (1) 50SZ060-3	(1) CARRIER 50SZ048-3 (1) 50SZ060-3
72X40	(2) CARRIER 50SZ060-3	(2) CARRIER 50SZ060-3	(2) CARRIER 50SZ060-3
84X40	(2) CARRIER 50SZ048-3 (1) 50SZ060-3	(2) CARRIER 50SZ048-3 (1) 50SZ060-3	(2) CARRIER 50SZ048-3 (1) 50SZ060-3
96X40	(4) CARRIER 50SZ048-3	(4) CARRIER 50SZ048-3	(4) CARRIER 50SZ048-3
108X40	(3) CARRIER 50SZ048-3 (1) 50SZ060-3	(3) CARRIER 50SZ048-3 (1) 50SZ060-3	(3) CARRIER 50SZ048-3 (1) 50SZ060-3
120X40	(2) CARRIER 50SZ048-3 (2) 50SZ060-3	(2) CARRIER 50SZ048-3 (2) 50SZ060-3	(2) CARRIER 50SZ048-3 (2) 50SZ060-3

WALL MOUNT EQUIPMENT SCHEDULE

AC 1	MARVAIR MODEL# HVPA42HPA050BU WALL MOUNTED HEAT PUMP 40,000 BTUH COOLING, SEER = 13.00 36,000 BTUH HEATING, HSPF = 8.00 1360 CFM @ .20" S.P., WT = 480 LBS. 208/230V-1PH-60CY, MAX. F.L.A. = 50.1 AMPS MOTORIZED DAMPER
AC 2	MARVAIR MODEL# HVPA60HPA050BU WALL MOUNTED HEAT PUMP 59,500 BTUH COOLING, SEER = 13.20 51,000 BTUH HEATING, HSPF = 7.70 1900 CFM @ .30" S.P., WT = 648 LBS. 208/230V-1PH-60CY, MAX. F.L.A. = 58.4 AMPS MOTORIZED DAMPER

ROOF MOUNT EQUIPMENT SCHEDULE

AC 1A	CARRIER MODEL# 50SZ048-3 PACKAGED ROOF HEAT PUMP 47,000 BTUH COOLING, SEER = 13.00 47,000 BTUH HEATING, HSPF = 7.7 1600 CFM @ .2" S.P., WT. = 480 LBS. 208/230V-1PH-60CY, MAX. F.L.A. = 23.9 AMPS. WITH FACTORY ROOF CURB, FRESH AIR INTAKE, AND COMPOSITE BASE
AC 2A	CARRIER MODEL# 50SZ060-3 PACKAGED ROOF HEAT PUMP 57,000 BTUH COOLING, SEER = 13.00 55,000 BTUH HEATING, HSPF = 7.7 1750 CFM @ .2" S.P., WT. = 492 LBS. 208/230V-1PH-60CY, MAX. F.L.A. = 32.7 AMPS. WITH FACTORY ROOF CURB, FRESH AIR INTAKE, AND COMPOSITE BASE

MATERIAL SCHEDULE

SUPPLY AIR PLENUM: GALV. IRON SHEETS W/ 1/2" LINER INSULATION
INTERIOR DUCTWORK: FLEX DUCT CLASS 1 UL-181
REGISTER BOXES: GALV. IRON SHEETS W/ 1/2" LINER INSULATION
SUPPLY AIR REGISTERS: METALAIR '7650-6' SERIES
RETURN AIR GRILLES: METALAIR 'RH' SERIES
THERMOSTAT: WHITE RODGERS '1F92' SERIES
ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS
FLAME SPREAD LESS THAN 25 SMOKE DEVELOPED RATING LESS THAN 50

LEGEND AND ABBREVIATIONS

—	SUPPLY DUCT	↗	DIRECTIONAL AIR FLOW
- - -	RETURN DUCT	↖	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	—	UNDERCUT DOOR
□	RETURN REGISTER	⊙	BAROMETRIC RELIEF DAMPER THRU ROOF
□	RETURN REGISTER	⊙	THERMOSTAT - +48" A.F.F. SEE MOUNTING HEIGHT OVER OBSTRUCTION DETAIL SHEET E0.0
□	SUPPLY REGISTER	—	DAMPER
□	EXHAUST FAN	—	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
□	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
△	16"x10" HOLE THRU BEAM	G	GAS LOCATION
◆	FIRE SMOKE DAMPER 'POTTORF' FSD-125R	RAG	RETURN AIR GRILL
◆	COMBINATION SMOKE FIRE DAMPER 'POTTORF' FSD-141	EP	EXTRA PURLIN
		RL	RIDGE LINE

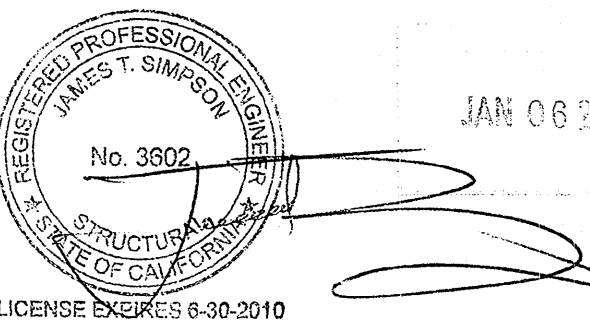
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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:
**MECHANICAL PLAN
WALL MOUNT
24'X40'**

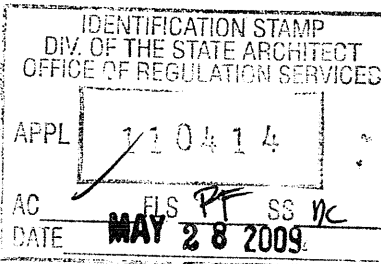
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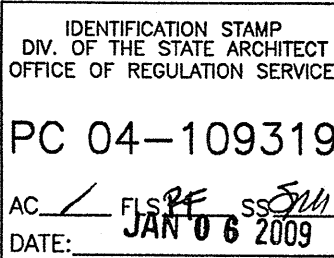
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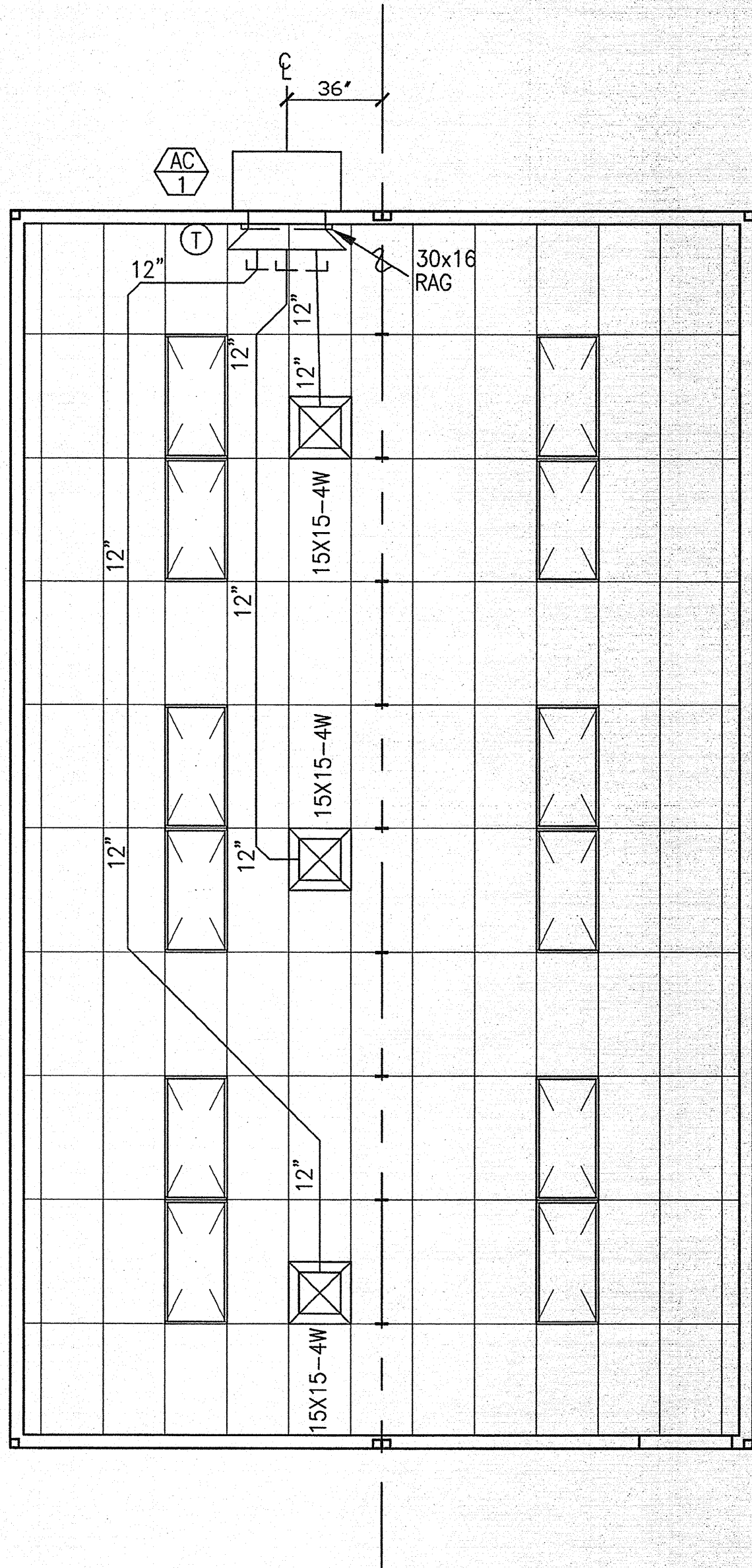
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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER

M1.1



AIR CONDITIONING PLAN VIEW

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

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS, LEGEND AND SCHEDULES.
2. BUILDING OVERHANG PROJECTION MUST BE A MINIMUM 36" LONG FOR ANY HVAC UNIT 13.00 SEER AND GREATER.
3. BLDG. 'A' SHOWN. BLDG. 'B' OPPOSITE HAND.



MECHANICAL MANDATORY MEASURES		Part 2 of 2	MECH-MM
PROJECT NAME		DATE	
MSI PC2008		2/22/2008	
Description		Designer	Enforcement
Ventilation:			
<input checked="" type="checkbox"/>	§ 12-120. Controls shall be provided to allow outside air intake or exhaust to be operated at the ventilation rates as specified on these plans:		
<input type="checkbox"/>	§ 12-120.1. Drivley or automatic dampers interconnected and closed on fan shutdown shall be provided on all outside air intakes and discharges at all spaces on readily accessible and unobstructed paths.		
<input checked="" type="checkbox"/>	§ 12-120.2. All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers at all openings in the building exterior for combustion air openings.		
<input type="checkbox"/>	§ 12-120.3. Air balancing: The system shall be equipped in accordance with the Mechanical Environmental Balancing System (MEBAS) Federal Standard (1985) or Associated Air Balance Council (AABC) National Standard (1986).		
<input type="checkbox"/>	§ 12-120.4. Outside Air Documentation: The system shall provide the outside air intake air flow shown on the mechanical drawings, cert shall be measured and certified by the testing engineer to the mechanical contractor and pointing by the design mechanical engineer, (c) the building Engineer C&S electronic controller, or (3) the design with control responsibility for the design of the building's controls.		
<input type="checkbox"/>	§ 12-120.5. Outside Air Measurement: The system shall be equipped with a calibrated fan or remote device capable of measuring the quantity of outside air on a continuous basis and displaying the quantity on a readily accessible display device or		
<input checked="" type="checkbox"/>	§ 12-120.6. Another method approved by the Commission.		
Service Water Heating System			
<input type="checkbox"/>	§ 12-120.7. If collecting hot water system is installed, it shall have a control capable of automatically limiting the circulating pump when hot water is not required.		
<input type="checkbox"/>	§ 12-120.8. Laboratory renovations of public facilities shall be equipped with controls to limit the water temperature to 110 degrees F.		
Project No. 2008-001		Issue No. 1 of 1	

LIGHTING LEGEND & SYMBOLS		POWER LEGEND & SYMBOLS		LOW VOLTAGE LEGEND & SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	2'x4' EMERGENCY FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T-8 TUBES, WEIGHT 27 LBS		DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURERS DRAWINGS.		MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT. FOR LIGHT FIXTURES, IT IS TO CENTERLINE OF FIXTURE UNO
	2'x4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T-8 TUBES, WEIGHT 27 LBS		PULL STATION J-BOX W/ 3/4" CONDUIT. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		MAIN SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE,
	1'x4' EMERGENCY FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (2) 32 WATT T-8 TUBES, WEIGHT 13.5 LBS		EXT. HORN J-BOX W/ 3/4" CONDUIT AT +90" A.F.F.		EXISTING DEVICE TO REMAIN
	1'x4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (2) 32 WATT T-8 TUBES, WEIGHT 13.5 LBS		SINGLE PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		OUTDOOR WEATHER PROOF SPEAKER
	2'x2' EMERGENCY FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (1) 32 WATT U TUBE, WEIGHT 13.5 LBS		DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		FLOOR DATA BOX W/ POWER OUTLET
	2'x4' FLUORESCENT SURFACE MOUNT LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (1) U TUBE, WEIGHT 13.5 LBS		FOUR PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		TV OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	2'x4' FLUORESCENT SURFACE MOUNT LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T-8 TUBES, WEIGHT 27 LBS		SWITCH CONTROLLED DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		INTERCOM OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	1'x4' FLUORESCENT SURFACE MOUNT LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (2) 32 WATT T-8 TUBES, WEIGHT 13.5 LBS		DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS GFI TYPE). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		SECURITY SYSTEM DOOR SWITCH, MOUNTED AT TOP OF DOOR JAMB
	2'x4' FLUORESCENT SURFACE MOUNT LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (1) U TUBE, WEIGHT 13.5 LBS		WEATHERPROOF DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		CEILING MOUNTED SPEAKER
	INCANDESCENT SURFACE MOUNT EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE WITH INTEGRAL PHOTO CELL CONTROL @ +7'-6" AFF		RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE (20 AMPS, 125 VOLTS)		HOME RUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE
	EXHAUST FAN, 100 CFM (156 WATTS) MIN FOR SINGLE OCCUPANT		DUPLEX RECEPTACLE OUTLET ON DEDICATED CIRCUIT (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		TELEPHONE PLYWOOD BACKBOARD
	EXHAUST FAN, 300 CFM (180 WATTS) MIN FOR MULTIPLE OCCUPANTS		FLOOR POWER BOX		FLOOR DATA BOX
	SURFACE MOUNTED CEILING DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)		HORN/STROBE LIGHT + 80" AFF		DATA OUTLET
	SURFACE MOUNTED CEILING SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)		SMOKE DETECTOR @ CEILING		PHONE OUTLET
	EMERGENCY LIGHT W/ BATTERY BACK-UP PACK		HEAT DETECTOR IN ATTIC SPACE		DATA/VOICE OUTLET
	WALL MOUNTED LIGHTED EXIT SIGN W/ BATTERY BACK-UP PACK @ +2" ABOVE FLOOR BASE (AS APPLICABLE)		WATER PROOF JUNCTION BOX WITH COVER		CEILING MOUNTED DATA BOX
	EMERGENCY EXIT LIGHT W/ BATTERY BACK-UP PACK		CLOCK W/CLOCK OUTLET @ +8'-0"		WIRE MOLD
	SINGLE-OCCUPANT OCCUPANCY SENSOR WITH MANUAL ON OVERRIDE SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		WATER HEATER POWER PULL BOX		
	MULTI-OCCUPANT OCCUPANCY SENSOR WITH MANUAL ON OVERRIDE SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (SURFACE MOUNTED)		
			BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (RECESSED MOUNTED)		
			SINGLE POLE SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		
			THREE-WAY SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		
			KEY OPERATED SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		

GENERAL NOTES

- ALL FIRE ALARM SHOULD BE HOMERUN TO SINGLE POINT OF CONNECTION W/ 3/4" CO (UNO)
- ALL LOW VOLTAGE CONDUIT RUNS ARE STUBBED FROM OUTLET BOX TO ATTIC SPACE (UNO). USE 1" CO FOR ALL OUTLET STUBS (UNO)
- ALL WIRING & DEVICES FOR LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TOO FIRE ALARM SYSTEMS ARE BY OTHERS
- VERIFY ALL FIRE ALARM DEVICE LOCATION W/ AOR'S ELECTRICAL DWG'S FOR PROJECT SPECIFIC DESIGN
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND SCOPE OF WORK. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES ETC WITH CABINETS, FURNITURE, EQUIPMENT ETC, TO AVOID CONFLICT
- SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, T-STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R
- ALL ELECTRICAL POWER LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM
- ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
- ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTRACTORS, ETC), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
 - 125A OR LESS : 60°C OR MORE
 - MORE THAN 125A : 75°C OR MORE

FIRE ALARM NOTES

- FIRE ALARM SYSTEM SHALL COMPLY WITH CBC 907.2.3, TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA CODE OF REGULATIONS, CHAPTER 9 SECTION 907.2.3.7.2 & 907.3.1
- INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN. THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, MUST BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND STATE FIRE MARSHALL, PER CBC & CFC SECTION 907.1.1
- PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT" PER NFPA 72 4.4.1.4.2.2
- UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
- ALARMS, SECTION 1006.2.4, CALIFORNIA FIRE CODE, IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE. LOCATE PER CFC 1006.2.4

MODULAR STRUCTURES INTERNATIONAL, INC.

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PROJECT NAME:

MSI STOCKPILE

SHEET TITLE:

ELECTRICAL DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

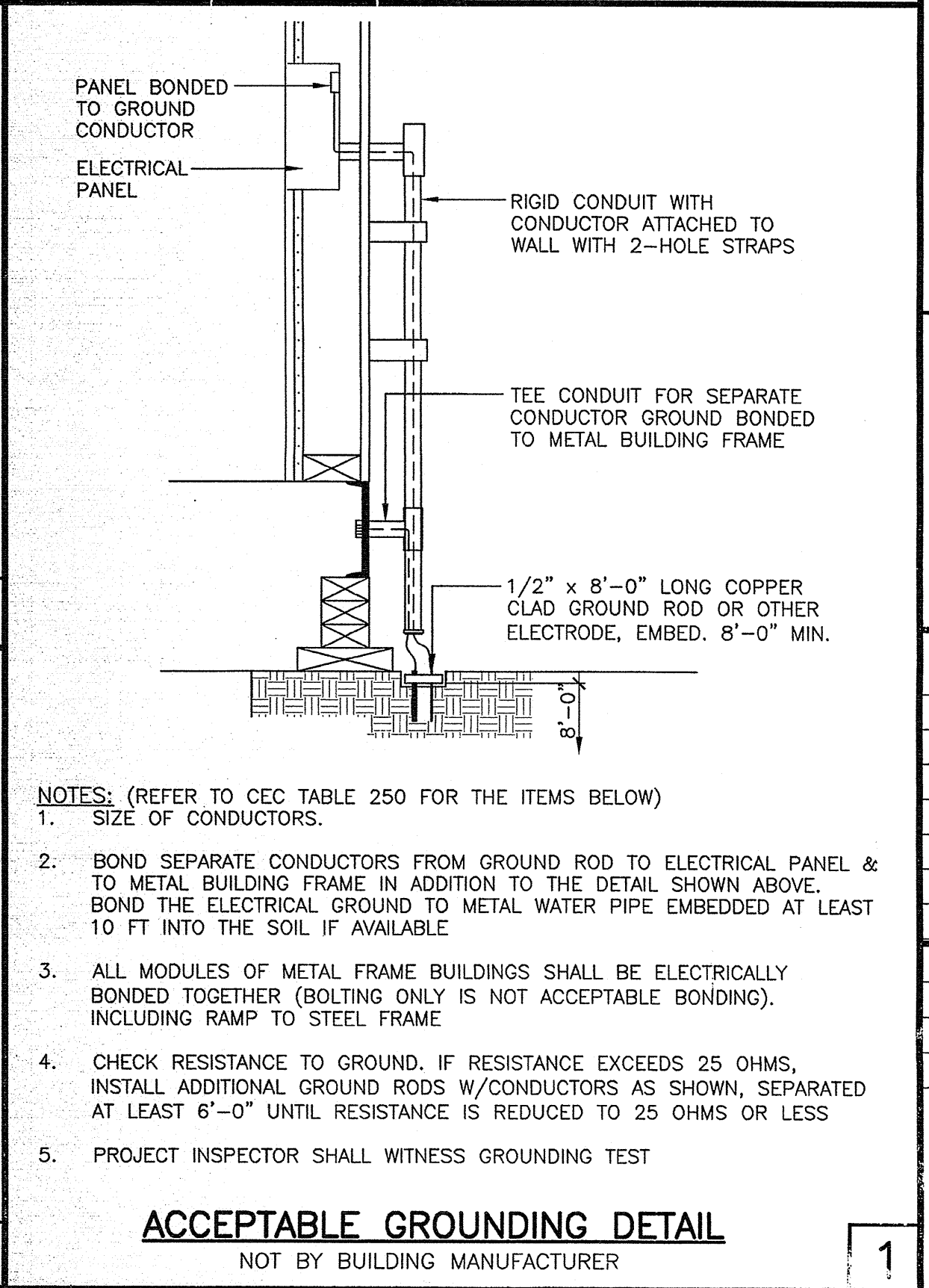
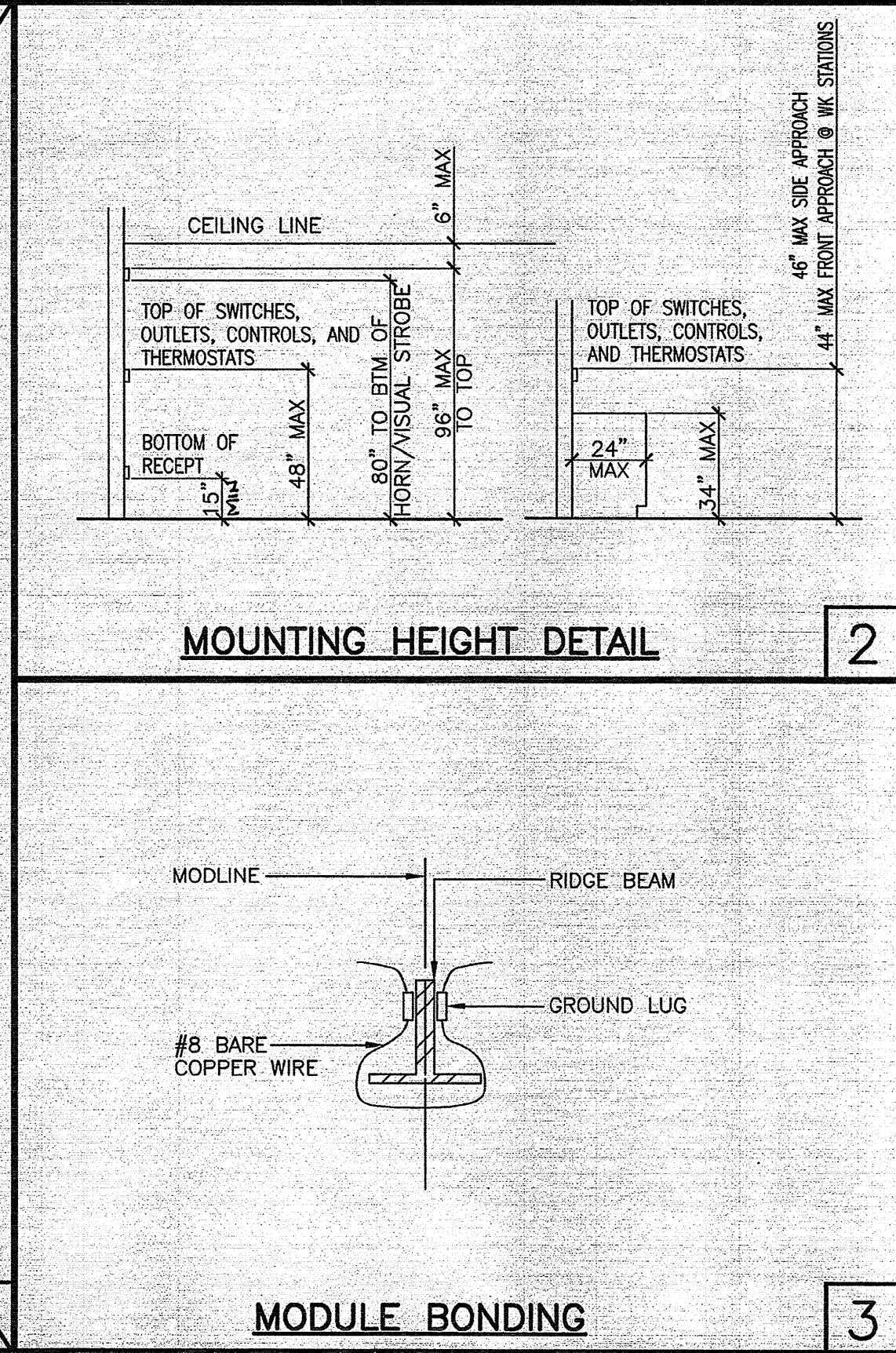
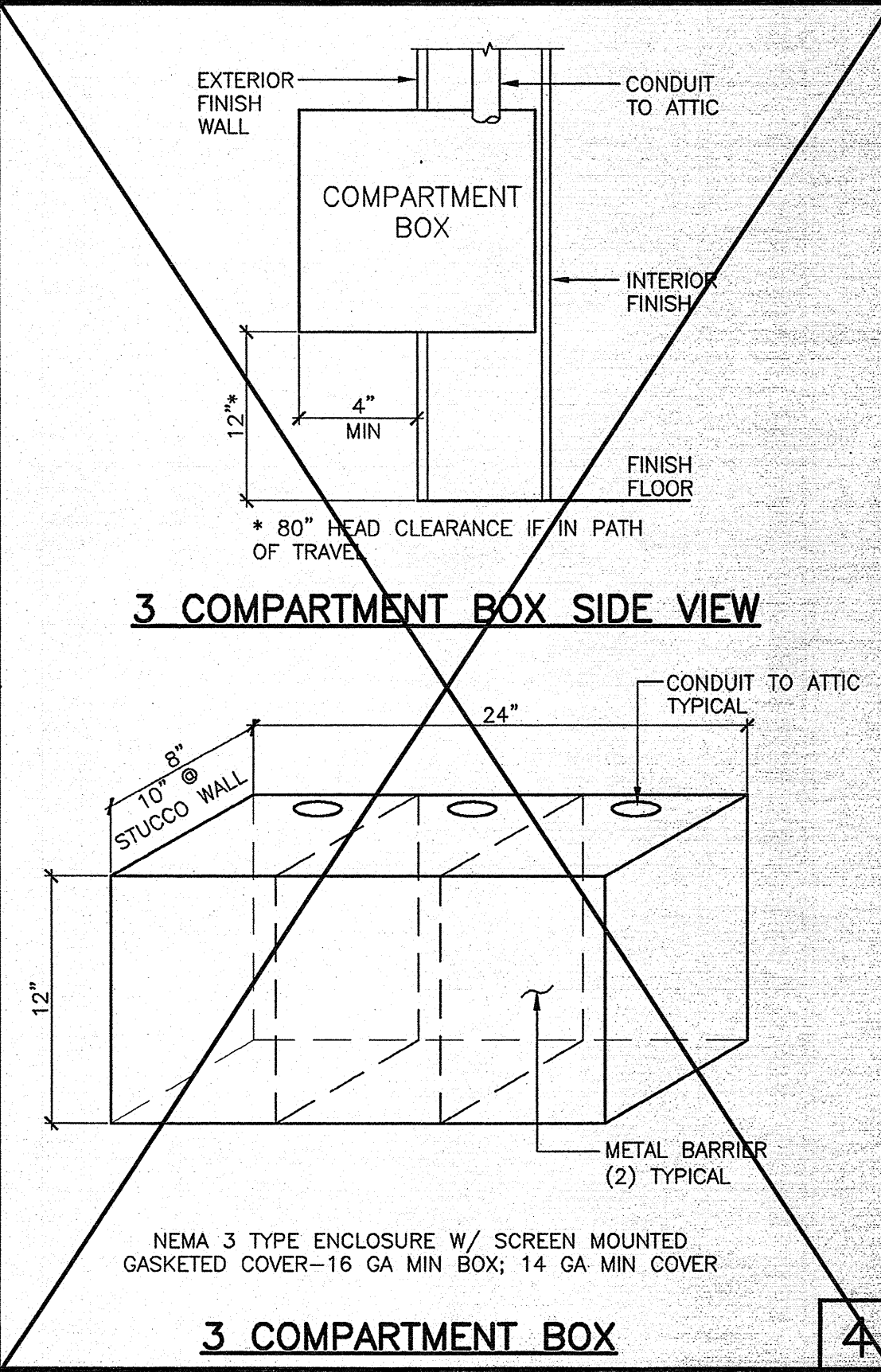
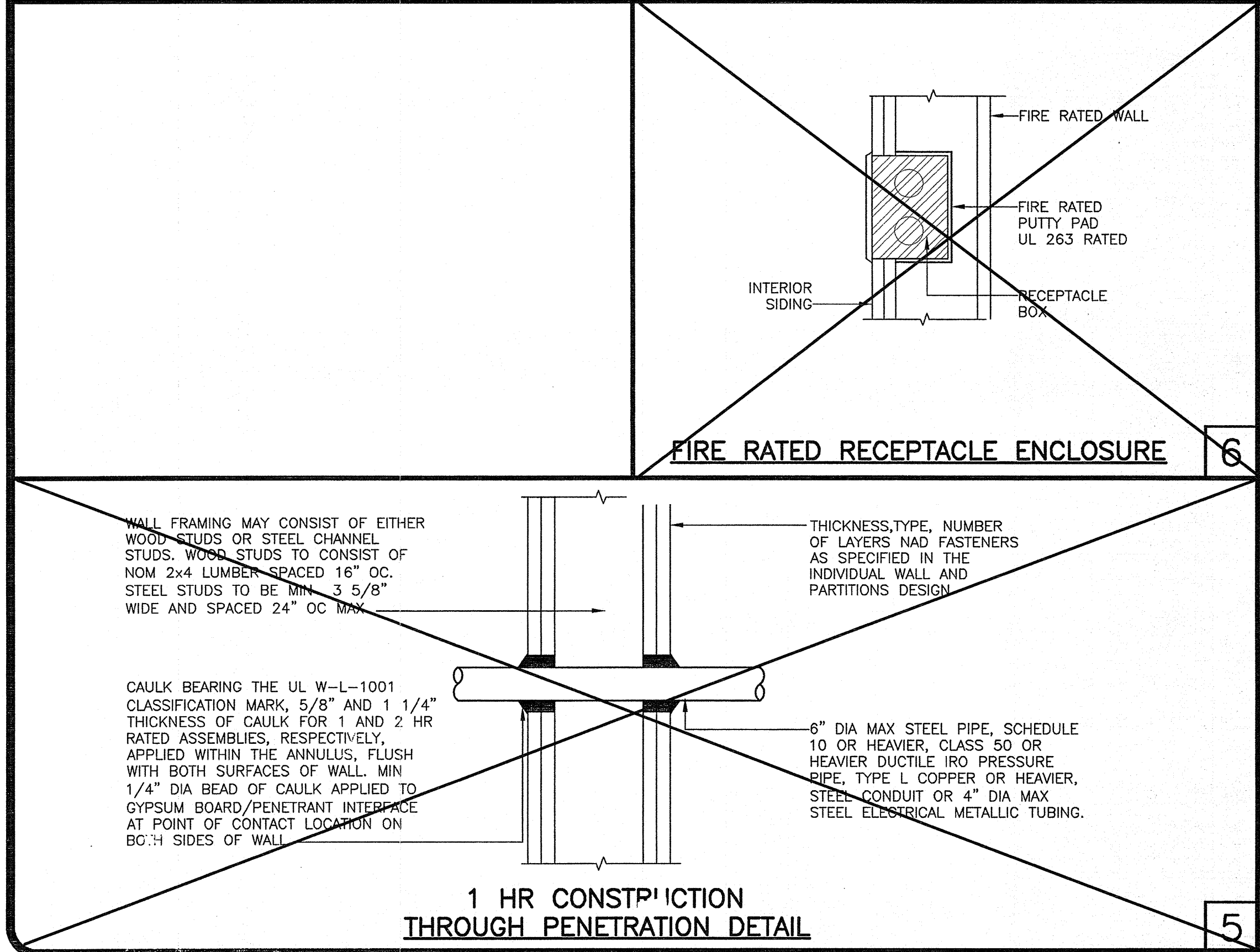
PROJECT SPECIFIC STATE AGENCY APPROVAL

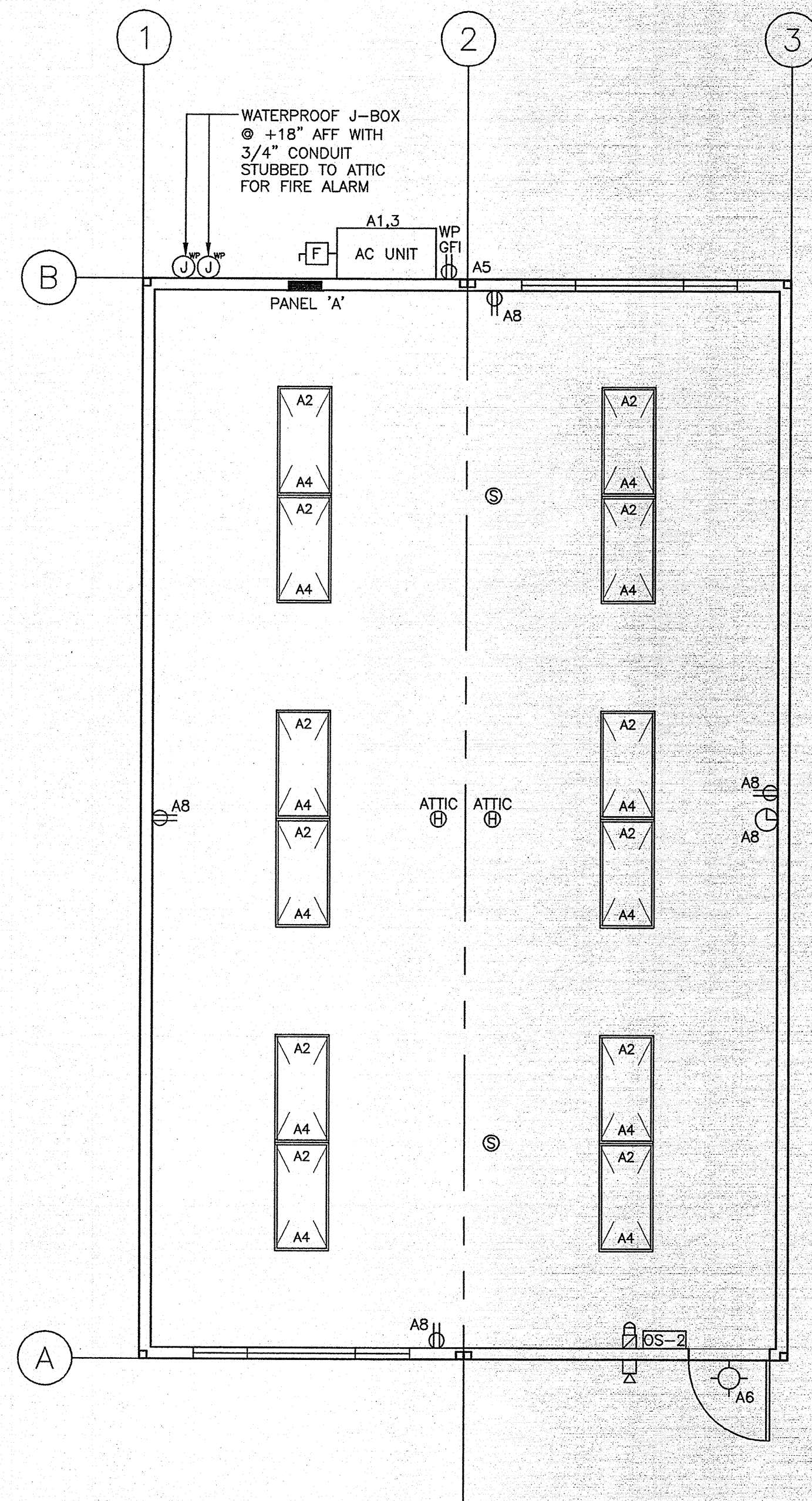
PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS	

PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09
SHEET NUMBER

E.O.C



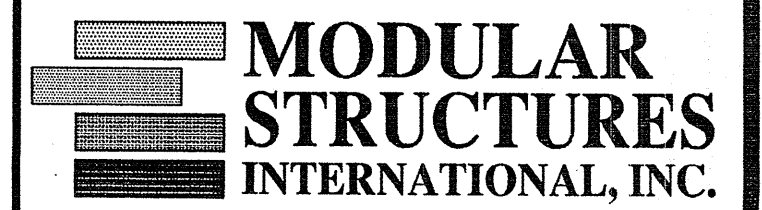


LOAD CENTER SCHEDULE												PANEL <u>A</u>				
VOLTS <u>120/240</u>			PHASE <u>1</u>			BUSS <u>100 A</u>			FEED <u>WALL</u>							
MAIN BRKR <u>100 A</u>			WIRE <u>3</u>			MOUNT <u>RECESSED</u>			LOCATION <u>INTERIOR</u>							
DESCRIPTION	WATTS		WIRE SIZE	BREAKER	POLE	CKT. NO.	A	B	C	D	E	F	G			
	A#	B#														
A/C	5762	—	6	30	2	1	●			2	1	20	12	576	—	LIGHTS
A/C	—	5762	—	—	—	3		●		4	1	20	12	—	576	LIGHTS
EXT. RECEPT	180	—	12	20	1	5		●		6	1	20	12	75	—	EXTERIOR LIGHTS
—	—	—	—	—	—	7		●		8	1	20	12	—	900	RECEPT
—	—	—	—	—	—	9		●		10	1	20	12	600	—	F.A.C.P.
—	—	—	—	—	—	11		●		12	—	—	—	—	—	—
SUB TOTAL	5942	5762												1251	1476	SUB TOTAL
LOAD																
A <u>7,193</u>			* L.C.L. = 1,152 x 1.25 = 1,440										TOTAL LOAD			
B <u>7,238</u>			OTHER = 12,991													
TOTAL <u>14,431</u>			MAX DEMAND = 14,431													
* LABEL & LOCK ON DEVICE																

GENERAL NOTES

- SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES

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



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PROJECT NAME:
MSI STOCKPILE

SHEET TITLE:
**ELECTRICAL PLAN
24'X40'**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 110414
AC [Signature] FLS PF SS [Signature]
DATE MAY 28 2009

PRE-CHECK (PC) DOCUMENT
CODE: 2007 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-109319
AC [Signature] FLS PF SS [Signature]
DATE JAN 06 2009

REVISIONS	
△ -	
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PROJECT NO.: 09-****
DRAWN BY: MA
SCALE: AS NOTED
DATE: 05-22-09

SHEET NUMBER
E1.0