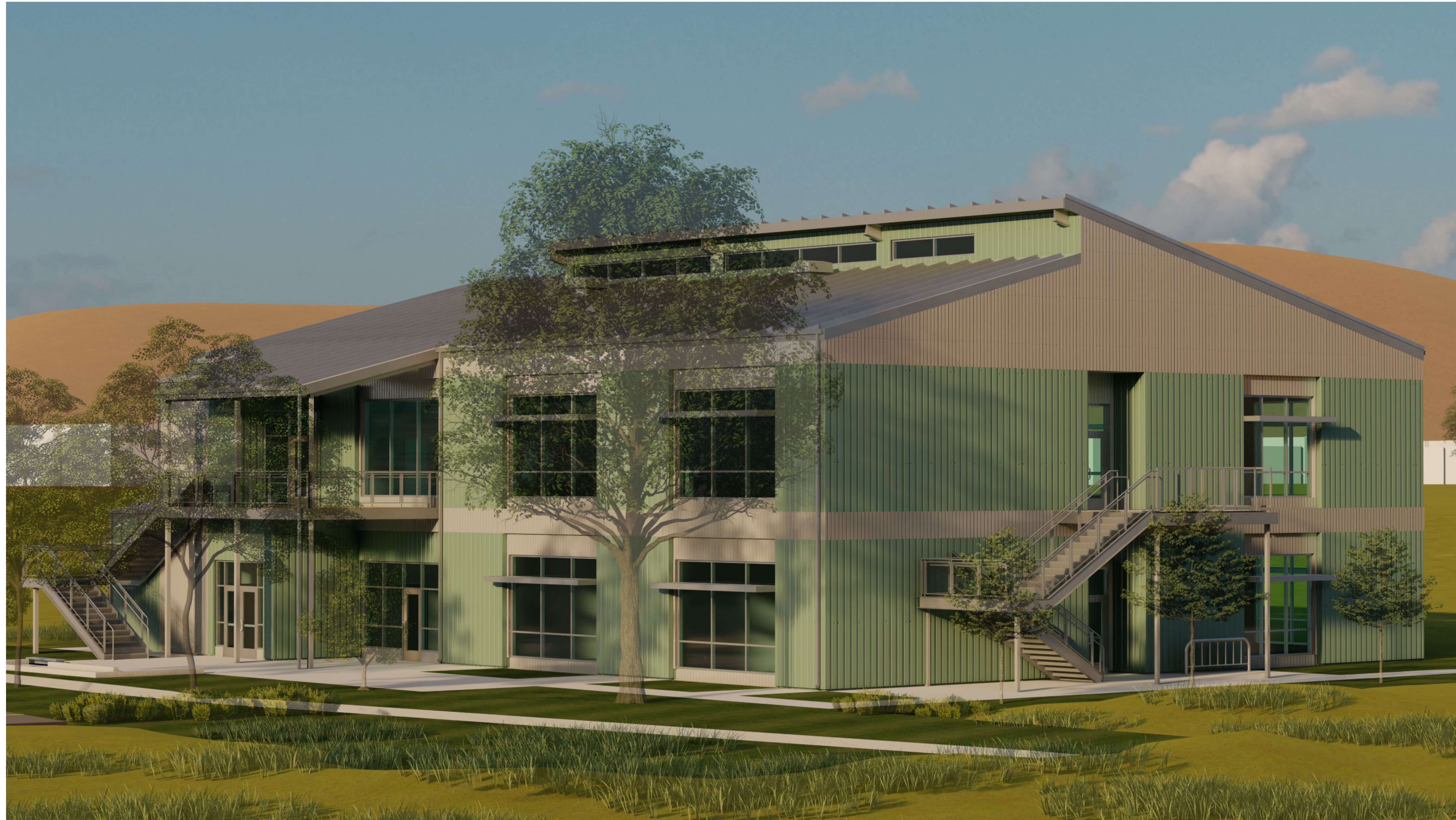


CAL POLY UNIVERSITY SAN LUIS OBISPO

CAL POLY TECH PARK - PHASE 2

EDA AWARD NO. 07-79-07500



FILE LOCATION: C:\Users\parmentrout\Documents\21179_01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt

DATE PLOTTED: 4/13/2023 10:30:08 AM

AGENCY APPROVAL **DSAE** 03-122884

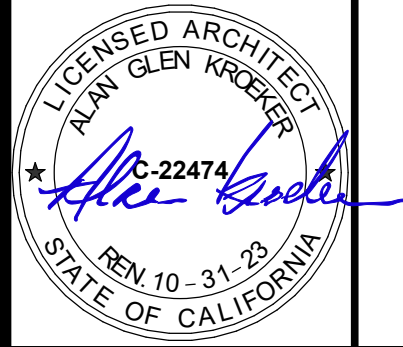
CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or
deviation from applicable regulations and standards. Approved plans
shall be available on the project site at all times.
Approved by:  07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG
26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
TEL (661) 251-7401

19.6
560 HIGUERA STREET, SUITE C
SAN LUIS OBISPO, CA 93401
TEL (805) 476-0399

CONSULTANTS
CIVIL ENGINEER
DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI)
705 PIEDO LANE, SUITE 10
SAN LUIS OBISPO, CA 93401
TEL (805) 250-2891, FAX (805) 280-2896
LANDSCAPE ARCHITECT
KTUA
540 E. BETTERAVIA ROAD, SUITE D 22
SANTA MARIA, CA 92103
TEL (760) 220-6811
STRUCTURAL ENGINEER
1951X STRUCTURAL DIVISION
1119 GARDEN STREET
SANTA BARBARA, CA 93101
TEL (805) 963-1210
M. E. P. ENGINEER
ALFATECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
TEL (626) 803-0005
FIRE PROTECTION ENGINEER
ALPHA FIRE UNLIMITED
650 SWEENEY LANE
SAN LUIS OBISPO, CA 93401
TEL (805) 541-2527
FIRE ALARM ENGINEER
DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324

ARCHITECT STAMP CONSULTANT STAMP



NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
COVER SHEET

DRAWN BY: xx JOB NUMBER: 21179.01

SHEET NO.
G-000
DATE: MARCH 31, 2023

OSFM PERMIT # 22-S-4251-CP-NW

CONSTRUCTION DOCUMENTS

CAL POLY UNIVERSITY SAN LUIS OBISPO

CAL POLY TECH PARK - PHASE 2



SYMBOLS

DRAFTING ITEMS

- DATUM - CONTROL POINT
- DIMENSION LINE AND TICK
- MATCHLINE - SEE: 1 / A101
- BREAK LINE
- KEYNOTE 01.23.A
- PROJECT LEVEL MARKER
- COLUMN GRID MARKER
- REVISION CLOUD
- REVISION TAG CMNT #
- PROJECT NORTH
- PROJECT NORTH ARROW

VIEW REFERENCES

- VIEW REFERENCE SHEET REFERENCE
- DETAIL VIEW
- SECTION VIEW
- ENLARGED VIEW
- INTERIOR ELEVATION
- VIEW REFERENCE SHEET REFERENCE
- EXTERIOR ELEVATION

ABBREVIATIONS

AT CENTER LINE	ID INSIDE DIAMETER
CE PENNY	INSUL INSULATION OR INSULATED
PD POUND	INT INVERT
PC PERPENDICULAR	INT INTERIOR
ACT ANGLE	LAV LAVATORY
AB ANCHOR BOLT	MATL MATERIAL
AC ASPHALTIC CONCRETE	MAX MAXIMUM
ACT ACoustical Ceiling Tile	MB MACHINE BOLT
AFF ABOVE FINISH FLOOR	MCH MECHANICAL
ALT ALTERNATE	MFR MANUFACTURE OR MANUFACTURER
ALUM ALUMINUM	MH MAN HOLE
ANOD ANODIZED	MIN MINIMUM
APPROX APPROXIMATE	MISC MISCELLANEOUS
ARCH ARCHITECT OR ARCHITECTURAL	NO NOT IN CONTRACT
BD BOARD	N NORTH
BLDG BUILDING	(N) NEW
BLK(BK) BLOCKING	NIC NOT IN CONTRACT
BOB BOTTOM OF BEAM	NO OR # NUMBER
BM BEAM	NTS NOT TO SCALE
CB CATCH BASIN	ON CENTER
CI CAST IRON	OD OUTSIDE DIAMETER
CG CONSTRUCTION JOINT	OH OVERHEAD
CLG CEILING	OPN OPENING
CLR CLEAR	PLM PLATE OR PROPERTY LINE
CMU CONCRETE MASONRY UNIT	PLM PLASTIC LAMINATE
CO CLEAN OUT	PLS PLASTER (NUMBER - SEE SPECS)
COL COLUMN	PLYWOOD PLYWOOD
CNC CONCRETE	PNT PAINT (NUMBER - SEE SPECS)
CONT CONTINUOUS	PTDF PRESSURE TREATED DOUGLAS FIR
CSK COUNTERSINK	QT QUARRY TILE
CW COLD WATER	RD ROOF DRAIN
CH CHANNEL	REF REFRIGERATOR
DBL DOUBLE	REINF REINFORCE OR REINFORCING
DEPT DEPARTMENT	RH ROUND HEAD
DET DETAIL	RM ROOM
DF DRINKING FOUNTAIN	RWO ROUGH OPENING
DIA DIAMETER	RD REDWOOD
DIAG DIAGONAL	S SOUTH
DN DOWN	SCH SCHEDULE
DS DOWNSPOUT	SD STORM DRAIN
DWG DRAWING	SHR SHOWER
E EAST	SHT SHEET
(E) EXISTING	SHTG SHEATHING
EB EXPANSION BOLT	SMIL SIMILAR
EJ EXPANSION JOINT	SMACNA THE ARCH SHEET METAL MANUAL
ELEV ELEVATION	SPEC SPECIFICATION
ELC ELECTRICAL	SQ SQUARE
EP EDGE OF PAVING	SSTL STAINLESS STEEL
EQU EQUAL	STD STANDARD
EQIP EQUIPMENT	STEE STEEL
EXT EXTERIOR	SUSP SUSPENDED
FD FLOOR DRAIN	SYM SYMMETRICAL
FE(C) FIRE EXTINGUISHER (8 CABINET)	TOB TOP OF BEAM
FF FINISHED FLOOR	TCC TOP OF CURB OR TOP OF CONCRETE
FG FINISHED GRADE	TCC TOP OF CATCH BASIN
FH FLAT HEAD OR FIRE HYDRANT	TEL TELEPHONE
FN FINISH	TEMP TEMPERATURE OR TEMPERED
FLG FLOW LINE	T&G TONGUE & GROOVE
FLASH FLASHING	TF TOP OF PAVING
FLR FLOOR	TS STRUCTURAL TUBING
FOC FACE OF CONCRETE	TV TELEVISION
FOP FACE OF FINISH	TOW TOP OF WALL
FOS FACE OF MASONRY	TYP TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
FOM FACE OF STUD	UNLESS OTHERWISE NOTED
FRP FIBERGLASS REINFORCED PANEL	VINYL COMPOSITION TILE
FT FOOT OR FEET	VCT VERTICAL
FTG FOOTING	VERT VERTICAL
GA GALVANIZED	VEGF VERTICAL GRAIN DOUGLAS FIR
GB GRAB BAR, GRADE BREAK	VTR WATER THRU ROOF
GL GLASS	W WATER
GLB GLUE LAMINATED BEAM	WC WHEELCHAIR ACCESSIBLE
GYP GYPSUM	WO WOOD
GWB GYPSUM WALL BOARD	WD WIDE FLANGE
HB HOSE BIBB	WH WATER HEATER
HDR HEADER	WF WATERPROOF
HGT HEIGHT	WS WOOD SCREW
HORIZ HORIZONTAL	WSC WAINSCOT
HTR HEATER	WWF WELDED WIRE FABRIC
HVAC HEATING/VENTILATING/AIR CONDITIONING	W WITH
	WO WITHOUT

GENERAL PROJECT NOTES

- ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR) AND CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.
- A CLASS 1 PROJECT INSPECTOR EMPLOYED BY THE UNIVERSITY SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, T24, CCR.
- APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE UNIVERSITY PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
- ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE UNIVERSITY PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE UNIVERSITY PROJECT MANAGER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE UNIVERSITY REPRESENTATIVE AND THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK.
- ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE NEW OR EXISTING STRUCTURE SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7-10 SECTION 13.3.1 AND TABLE 13.6-1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON THE PLANS.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS IS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH THE APPROVAL OF UNIVERSITY REPRESENTATIVE. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA. ALL BRACINGS OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA. WHERE BRACINGS DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBMITTED TO THE UNIVERSITY PROJECT MANAGER AND SUBJECT TO THE APPROVAL OF THE ARCHITECT AND RESPONSIBLE ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
- 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 OR NON-COMPING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- GENERAL CONTRACTOR SHALL VISIT THE SITE, REVIEW THE BUILDING DRAWINGS AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.
- GENERAL CONTRACTOR SHALL CONSULT WITH UNIVERSITY PROJECT MANAGER TO RESOLVE ANY CHANGES, OMISSIONS OR PLAN DISCREPANCIES PRIOR TO BIDDING OR CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.
- GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES.
- GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY UNIVERSITY PROJECT MANAGER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS TO BE TAKEN FROM THE DESIGNATED DATUM POINT. DO NOT SCALE DRAWINGS.
- GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS, OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS PRIOR TO INSTALLATION OF SUCH SYSTEMS.
- GENERAL CONTRACTOR SHALL RETAIN ONE SET OF PLANS TO NOTE AND DOCUMENT ALL CHANGES DURING CONSTRUCTION. THIS SET SHALL BE PART OF THE GENERAL CONTRACTORS "CLOSE-OUT PACKAGE" PER CAMPUS STANDARD SPECIFICATION SECTION 01 78 39 PROJECT RECORD DOCUMENTS.
- FOR THE PURPOSE OF THE DOCUMENTS, TO "INSTALL" SHALL MEAN TO PROVIDE ALL FASTENERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS, AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATION INSTALLATION, UNLESS NOTED OTHERWISE.
- ALL ITEM SUBSTITUTIONS MUST BE APPROVED BY THE UNIVERSITY PROJECT MANAGER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN THESE DOCUMENTS INCLUDING AND DEMOLITION, RECONFIGURING, OR OTHER WORK NECESSARY FOR A COMPLETE AND FINISHED INSTALLATION.
- DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE.

PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF A NEW TWO-STORY OFFICE BUILDING AND ASSOCIATED SITE DEVELOPMENT WORK. SITE WORK INCLUDES AREAS OF NEW ASPHALT PARKING AND CONCRETE CURBS AND GUTTERS, AREAS OF IMPROVEMENT OF EXISTING PARKING, CONCRETE WALKS AND OTHER FLATWORK, RAMPS AND STAIRS WITH HANDRAILS, A SMALL PEDESTRIAN BRIDGE, LANDSCAPING AND IRRIGATION, GRADING AND DRAINAGE IMPROVEMENTS, INCLUDING A DRAINAGE BASIN. ALSO, SITE ELECTRICAL IMPROVEMENTS FOR COMMUNICATIONS AND POWER PROVISIONS.

BUILDING DATA
 CALIFORNIA POLYTECHNIC STATE UNIVERSITY - TECH PARK - PHASE 2
 BLDG # 83-B TECH PARK PHASE 2 AREA 16,250 S.F.

BUILDING DATA
 CALIFORNIA POLYTECHNIC STATE UNIVERSITY - TECH PARK - PHASE 2
 CONSTRUCTION TYPE: TYPE IIB - FULLY SPRINKLERED
 OCCUPANCY TYPE: 8 OCC. (PER CBC SECTION 304.1)
 OCCUPANCY SEPARATIONS: NONE
 NUMBER OF STORIES: 2 STORIES
 BUILDING HEIGHT: 42'-6"
 GROSS ENCLOSED 1ST FLOOR AREA: 8,265 SQ. FT.
 GROSS ENCLOSED 2ND FLOOR AREA: 7,985 SQ. FT.
 GROSS ENCLOSED BUILDING AREA: 16,250 SQ. FT.

GENERAL PROJECT NOTES

* SEE G-201 FOR COMPLETE CODE ANALYSIS

APPLICABLE CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020*
 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 1, TITLE 24 CCR
 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 2019 CALIFORNIA MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
 2019 CALIFORNIA PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 2018 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
 (PER 2019 CBC PART 2 CH 35)
 NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS
 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 (CA AMENDED 2016 EDITION)
 NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED 2016 EDITION)
 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED 2016 EDITION)
 NFPA 90 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES (2016 EDITION)
 UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES (2003 EDITION)
 UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (1999 EDITION)
 UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED (2002 -R2010) ANS/AIEE/IEC 11.2

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2019.

SHEET INDEX

SHEET #	SHEET NAME	REV #	DATE	SHEET #	SHEET NAME	REV #	DATE
6.000	OVERALL GENERAL INFORMATION			6.001	MECHANICAL ENGINEERING		
G-000	COVER SHEET			M-001	MECHANICAL LEGENDS		
G-001	TITLE SHEET			M-012	MECHANICAL TITLE 24 CALCULATIONS		
G-002	CALGREEN CODE COMPLIANCE			M-131	LEVEL 01 - MECHANICAL ZONING PLAN		
G-100	CAMPUS MAP			M-132	LEVEL 02 - MECHANICAL ZONING PLAN		
G-101	CODE SITE PLAN			M-201	LEVEL 01 - HVAC PLAN		
G-201	CODE FLOOR PLANS			M-202	LEVEL 02 - HVAC PLAN		
G-900	ACCESSIBILITY CLEARANCES			M-203	ROOF - HVAC PLAN		
				M-301	LEVEL 01 - PIPING PLAN		
				M-302	LEVEL 02 - PIPING PLAN		
C1	NOTES SHEET			M-501	MECHANICAL DETAILS		
C3	DEMOLITION PLAN			M-502	MECHANICAL DETAILS		
C4	GRADING PLAN			M-503	MECHANICAL DETAILS		
C5	UTILITY PLAN			M-504	MECHANICAL DETAILS		
C5	EROSION CONTROL PLAN			M-505	MECHANICAL DETAILS		
C6	DETAIL SHEET			M-601	MECHANICAL SCHEDULES		
C7	DETAIL SHEET			M-602	MECHANICAL SCHEDULES		
C8	DETAIL SHEET			M-701	MECHANICAL CONTROLS		
				M-702	MECHANICAL CONTROLS		
					MECHANICAL SHEETS TOTAL: 19		
2.000	CIVIL ENGINEERING			7.000	PLUMBING ENGINEERING		
P1-0	OVERALL SITE PLAN			P1-01	PLUMBING NOTES, ABBREVIATIONS & LEGENDS		
P1-1	ENLARGED SITE PLAN			P1-10	PLUMBING SITE PLAN		
P1-11	SITE DETAILS			P1-201	LEVEL 01 - PLUMBING PLAN		
P1-12	SITE DETAILS			P1-202	IRRIGATION DETAILS		
A-201	FIRST LEVEL FLOOR PLAN			P1-203	ROOF - PLUMBING PLAN		
A-202	SECOND LEVEL FLOOR PLAN			P1-204	ENLARGED PLUMBING PLANS		
A-211	FIRST LEVEL REFLECTED CEILING PLAN			P1-205	PLUMBING DETAILS		
A-212	SECOND LEVEL REFLECTED CEILING PLAN			P1-206	PLUMBING SCHEDULES		
A-221	ROOF PLAN			P1-207	PLUMBING RISER DIAGRAMS		
A-251	FINISH PLANS			P1-208	PLUMBING RISER DIAGRAMS		
A-252	SIGNAGE PLAN				PLUMBING SHEETS TOTAL: 10		
A-301	EXTERIOR ELEVATIONS			8.000	ELECTRICAL ENGINEERING		
A-302	EXTERIOR ELEVATIONS			E-001	ELECTRICAL NOTES, ABBREVIATIONS, & LEGENDS		
A-303	OVERALL TRANSVERSE BUILDING SECTIONS			E-010	ELECTRICAL TITLE 24 CALCULATIONS		
A-402	OVERALL TRANSVERSE BUILDING SECTIONS			E-011	ELECTRICAL TITLE 24 CALCULATIONS		
A-403	OVERALL LONGITUDINAL BUILDING SECTIONS			E-101	SITE ELECTRICAL PLAN		
A-404	OVERALL LONGITUDINAL BUILDING SECTIONS			E-102	MECHANICAL PHOTOMETRICS		
A-411	WALL SECTIONS			E-201	LEVEL 01 - POWER PLAN		
A-412	WALL SECTIONS			E-202	LEVEL 02 - POWER PLAN		
A-413	WALL SECTIONS			E-203	ROOF - POWER PLAN		
A-414	WALL SECTIONS			E-301	LEVEL 01 - LIGHTING PLAN		
A-501	RESTROOM ENLARGED PLANS & INT. ELEVATIONS			E-302	LEVEL 02 - LIGHTING PLAN		
A-510	RESTROOM ENLARGED PLANS & INT. ELEVATIONS			E-303	LEVEL 01 - EMERGENCY PHOTOMETRICS		
A-511	ENLARGED STAIR PLANS			E-304	LEVEL 02 - EMERGENCY PHOTOMETRICS		
A-512	ENLARGED STAIR AND ELEVATOR PLANS			E-305	NORMAL PHOTOMETRICS		
A-513	ENLARGED STAIR AND ELEVATOR SECTIONS			E-306	LEVEL 02 - EMERGENCY PHOTOMETRICS Copy 1 Copy 1		
A-514	STAIR SECTIONS			E-401	WALL SECTIONS		
A-601	INTERIOR ELEVATIONS			E-502	ELECTRICAL DETAILS		
A-602	INTERIOR ELEVATIONS			E-503	ELECTRICAL DETAILS		
A-603	INTERIOR ELEVATIONS			E-511	ELECTRICAL PANEL SCHEDULES		
A-604	INTERIOR ELEVATIONS			E-512	ELECTRICAL PANEL SCHEDULES		
A-701	EXTERIOR DETAILS			E-601	ELECTRICAL SINGLE LINE DIAGRAM & FIXTURE SCHEDULE		
A-702	EXTERIOR & ROOFING DETAILS				ELECTRICAL SHEETS TOTAL: 20		
A-703	ROOFING DETAILS			9.000	SECURITY SHEETS		
A-704	DOOR SCHEDULE			SE-001	SECURITY NOTES, ABBREVIATIONS & LEGENDS		
A-811	WINDOW SCHEDULE			SE-010	SECURITY SITE PLAN		
A-821	DOOR AND WINDOW DETAILS			SE-111	LEVEL 01 - SECURITY OVERALL PLAN		
A-901	WALL TYPES			SE-112	LEVEL 02 - SECURITY OVERALL PLAN		
A-911	FIRE RATING DETAILS			SE-121	LEVEL 01 - SECURITY PATHWAY PLAN		
A-912	FIRE STOPPING DETAILS			SE-122	LEVEL 02 - SECURITY PATHWAY PLAN		
A-921	INTERIOR DETAILS			SE-131	LEVEL 01 - SECURITY CAMERA PLAN		
A-922	SUSPENDED ACoustic TILE CEILING DETAILS			SE-132	LEVEL 02 - SECURITY CAMERA PLAN		
A-923	SUSPENDED CEILING ANCHORAGE DETAILS			SE-141	LEVEL 01 - SECURITY CAMERA PLAN		
A-924	CASEWORK DETAILS			SE-142	LEVEL 02 - SECURITY CAMERA PLAN		
A-931	CASEWORK DETAILS			SE-143	ROOF - SECURITY CAMERA PLAN		
				SE-501	SECURITY DOOR DETAILS		
				SE-504	SECURITY CAMERA DETAILS		
				SE-701	SECURITY ACCESS CONTROL DIAGRAM		
				SE-702	SECURITY CAMERA DIAGRAM		
					SECURITY SHEETS TOTAL: 15		
10.000	TECHNOLOGY			T-001	TECHNOLOGY NOTES, ABBREVIATIONS & LEGENDS		
T-100	TECHNOLOGY SITE PLAN			T-100	TECHNOLOGY SITE PLAN		
T-111	LEVEL 01 - TECHNOLOGY OVERALL PLAN			T-111	LEVEL 01 - TECHNOLOGY OVERALL PLAN		
T-112	LEVEL 02 - TECHNOLOGY OVERALL PLAN			T-112	LEVEL 02 - TECHNOLOGY OVERALL PLAN		
T-121	LEVEL 01 - TECHNOLOGY PATHWAY PLAN			T-121	LEVEL 01 - TECHNOLOGY PATHWAY PLAN		
T-122	LEVEL 02 - TECHNOLOGY PATHWAY PLAN			T-122	LEVEL 02 - TECHNOLOGY PATHWAY PLAN		
T-131	LEVEL 01 - TECHNOLOGY WAO PLAN			T-131	LEVEL 01 - TECHNOLOGY WAO PLAN		
T-132	LEVEL 02 - TECHNOLOGY WAO PLAN			T-132	LEVEL 02 - TECHNOLOGY WAO PLAN		
T-133	ROOF - TECHNOLOGY WAO PLAN			T-133	ROOF - TECHNOLOGY WAO PLAN		
T-141	LEVEL 01 - TECHNOLOGY WAO CEILING PLAN			T-141	LEVEL 01 - TECHNOLOGY WAO CEILING PLAN		
T-142	LEVEL 02 - TECHNOLOGY WAO CEILING PLAN			T-142	LEVEL 02 - TECHNOLOGY WAO CEILING PLAN		
T-107	TECHNOLOGY ENLARGED PLAN - MAIN TELECOM 111			T-107	TECHNOLOGY ENLARGED PLAN - MAIN TELECOM 111		
T-202	LEVEL 02 - TECHNOLOGY ENLARGED PLAN - IT ROOM			T-202	LEVEL 02 - TECHNOLOGY ENLARGED PLAN - IT ROOM		
T-501	TECHNOLOGY DETAILS						

Table with 2 columns: CODE SECTION & DESCRIPTION, LOCATION IN DOCUMENTS/ COMPLIANCE. Rows include 5.106 SITE DEVELOPMENT, 5.106.4.2 BICYCLE PARKING, 5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING [N], 5.106.5.3.3 SINGLE CHARGING SPACE REQUIREMENTS [N], 5.106.5.3.2 MULTIPLE CHARGING SPACE REQUIREMENTS [N], 5.106.5.3.3 EV CHARGING SPACE CALCULATION [N], 5.106.8 LIGHT POLLUTION REDUCTION, 5.106.10 GRADING AND PAYING, 5.106.12 SHADE TREES, 5.106.12.1 SURFACE PARKING AREAS, 5.106.12.2 LANDSCAPE AREAS, 5.106.12.3 HARDSCAPE AREAS, 5.201 ENERGY EFFICIENCY, 5.3 WATER EFFICIENCY AND CONSERVATION, 5.3.1 WATER CLOSETS, 5.3.1.1 WATER CLOSETS, 5.3.1.2 URINALS, 5.3.1.2.1 WALL-MOUNTED URINALS, 5.3.1.2.2 FLOOR-MOUNTED URINALS, 5.3.1.3 SHOWERHEADS, 5.3.1.3.1 SINGLE SHOWERHEAD, 5.3.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER.

Table with 2 columns: CODE SECTION & DESCRIPTION, LOCATION IN DOCUMENTS/ COMPLIANCE. Rows include 5.3 WATER EFFICIENCY AND CONSERVATION (CONT.), 5.3.3.3.4 FAUCETS AND FOUNTAINS, 5.3.3.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS, 5.3.3.3.4.2 KITCHEN FAUCETS, 5.3.3.3.4.3 WASH FOUNTAINS, 5.3.3.3.4.4 METERING FAUCETS, 5.3.3.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS, 5.3.3.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS, 5.3.3.6.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS, 5.3.3.6.1 NEWLY CONSTRUCTED LANDSCAPES, 5.3.3.6.2 REHABILITATED LANDSCAPES, 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, 5.4.07 WATER RESISTANCE AND MOISTURE MANAGEMENT, 5.4.07.1 WEATHER PROTECTION, 5.4.07.2 MOISTURE CONTROL, 5.4.07.2.1 SPRINKLERS, 5.4.07.2.2 ENTRIES AND OPENINGS, 5.4.07.2.2.1 EXTERIOR DOOR PROTECTION, 5.4.07.2.2.2 FLASHING, 5.4.08 CONSTRUCTION WASTE MANAGEMENT, 5.4.08.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN, 5.4.08.1.2 WASTE MANAGEMENT COMPANY, 5.4.08.1.3 WASTE STREAM REDUCTION ALTERNATIVE, 5.4.08.1.4 DOCUMENTATION, 5.4.10.1 RECYCLING BY OCCUPANTS, 5.4.10.1.1 ADDITIONS, 5.4.10.1.2 SAMPLE ORDINANCE, 5.5 ENVIRONMENTAL QUALITY, 5.5.04.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, 5.5.04.4 FINISH MATERIAL POLLUTANT CONTROL, 5.5.04.4.1 ADHESIVES, SEALANTS AND CAULKS.

Table with 2 columns: CODE SECTION & DESCRIPTION, LOCATION IN DOCUMENTS/ COMPLIANCE. Rows include 5.5 ENVIRONMENTAL QUALITY (CONT.), 5.5.04.3 PAINTS AND COATINGS, 5.5.04.3.1 AEROSOL PAINTS AND COATINGS, 5.5.04.3.2 VERIFICATION, 5.5.04.4 CARPET SYSTEMS, 5.5.04.4.1 CARPET CUSHION, 5.5.04.4.2 CARPET ADHESIVE, 5.5.04.5 COMPOSITE WOOD PRODUCTS, 5.5.04.6 RESILIENT FLOORING SYSTEMS, 5.5.04.6.1 NOISE EXPOSURE WHERE NOISE CONTOURS ARE NOT READILY AVAILABLE, 5.5.04.7 ACOUSTICAL CONTROL, 5.5.04.7.1 EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD, 5.5.04.7.2 PERFORMANCE METHOD, 5.5.08 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.1.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.1.2 HALONS, 5.5.08.2 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.2.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.2.2 DOCUMENTATION OF COMPLIANCE, 5.5.08.3 INTERIOR SOUND TRANSMISSION, 5.5.08.4 INTERIOR SOUND TRANSMISSION, 5.5.08.5 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.5.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.5.2 HALONS.

Table with 2 columns: CODE SECTION & DESCRIPTION, LOCATION IN DOCUMENTS/ COMPLIANCE. Rows include 5.5.08.5.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.5.2 HALONS, 5.5.08.5.3 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.5.3.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.5.3.2 HALONS, 5.5.08.5.3.3 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.5.3.3.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.5.3.3.2 HALONS, 5.5.08.5.3.3.3 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, 5.5.08.5.3.3.3.1 CHLOROFLUOROCARBONS (CFCs), 5.5.08.5.3.3.3.2 HALONS.

CALGREEN CODE COMPLIANCE. THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE 2019 CALGREEN CODE (TITLE 24CCR, PART II). MANDATORY MEASURES ARE LOCATED AT DRAWING SHEET G-002. AGENCY APPROVAL: DSAI 03-122864. CSU The California State University OFFICE OF FIRE SAFETY. CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY. APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY CRIMINAL OR CIVIL LIABILITY THAT MAY BE INCURRED BY ANY PARTY. APPROVED DRAWINGS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES. Signed by: [Signature] 07/19/2023. CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shubel. 26535 SUMMIT CIRCLE, SANTA CLARITA, CA 91350, TEL (661) 251-7401. 560 HIGUERA ROAD, SUITE C, SAN LUIS OBISPO, CA 93401, TEL (805) 476-0399. CONSULTANTS: CIVIL ENGINEER: DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 FIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401, TEL (805) 250-2891, FAX (805) 280-2896. LANDSCAPE ARCHITECT: KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 92103, TEL (760) 220-6811. STRUCTURAL ENGINEER: 193X STRUCTURAL DIVISION 1119 GARDEN STREET, SANTA BARBARA, CA 93101, TEL (805) 963-1210. M.E.P. ENGINEER: ALPATECH 421 E. HUNTINGTON DRIVE, MONROVIA, CA 91016, TEL (626) 803-0005. FIRE PROTECTION ENGINEER: ALPHA FIRE UNLIMITED 650 SWEENEY LANE, SAN LUIS OBISPO, CA 93401, TEL (805) 541-2527. FIRE ALARM ENGINEER: DEEP BLUE INTEGRATION INC. 3442 CALIFORNIA DR., SUITE C, SAN LUIS OBISPO, CA 93401, TEL (888) 600-0324. ARCHITECT STAMP: [Stamp] CONSULTANT STAMP: [Stamp]. REVISIONS: [Table]. THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PROJECT OWNER & TITLE: CAL POLY UNIVERSITY, SAN LUIS OBISPO, 1 Grand Avenue, San Luis Obispo, CA 93407. CAL POLY TECH PARK - PHASE 2, Mount Bishop Road, San Luis Obispo, CA 93407. SHEET TITLE: CALGREEN CODE COMPLIANCE. DRAWN BY: XX, JOB NUMBER: 21170.01. SHEET NO.: G-002. DATE: MARCH 31, 2023. CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 10:30:12 AM FILE LOCATION: C:\Users\parmentrout\Documents\21179_01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt

AGENCY APPROVAL DSAE 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by:  07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

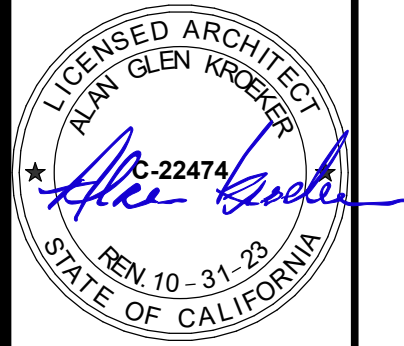
AMG

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ARCHITECT STAMP	CONSULTANT STAMP
	

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

CAMPUS MAP

DRAWN BY: XX JOB NUMBER: 21179.01

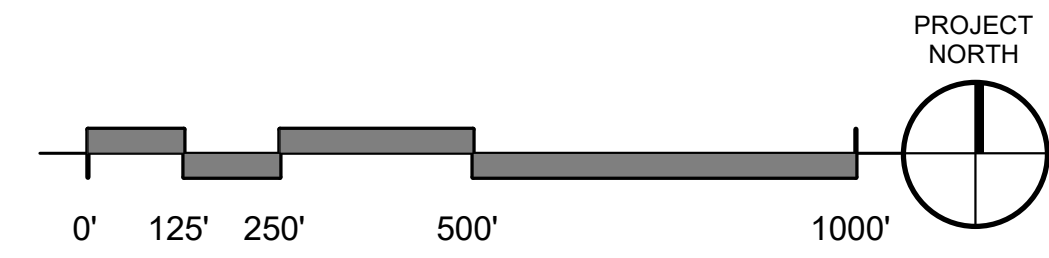
SHEET NO.

G-100

DATE: MARCH 31, 2023



AREA OF WORK
(N) BUILDING TECH PARK
(PHASE 2)



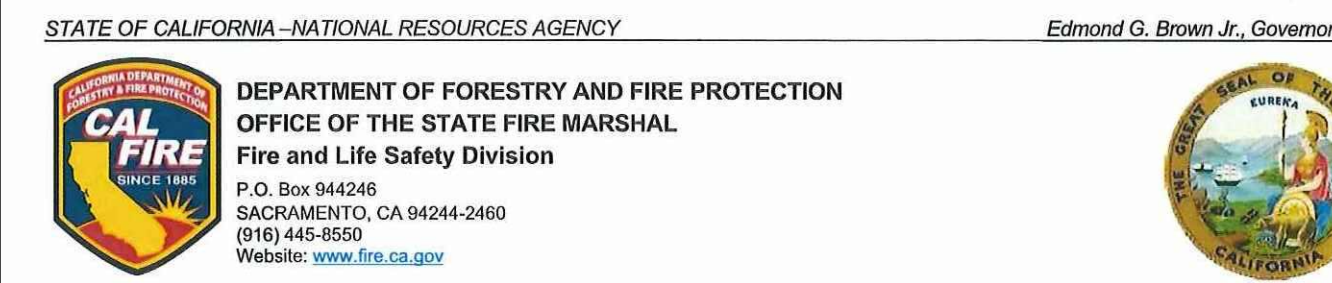
CAMPUS SITE PLAN 1"= 250'-0" 1

CONSTRUCTION DOCUMENTS

PARKING LOT H-1 ANALYSIS				
TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
359	8	15	2	7

PARKING LOT H-2 ANALYSIS				
TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
53	3	3	1	2

LOCAL FIRE AUTHORITY REVIEW



LOCAL FIRE AUTHORITY - ACCESS APPROVAL

Project: Cal Poly Tech Park, Phase 2
 Address: Mount Bishop Rd., Building 84
 CSFM File Number: _____ DGS Project #: 03-122884
(Only if applicable) (Only if applicable)

Pursuant to CCR19 3.00 and 3.05, the California State Fire Marshal is requesting certification from the local fire authority that the above sections are met to their satisfaction.

This form shall be scanned to the accompanying fire access plan reflecting all items under consideration, and wet signed by the local fire authority. Please complete all applicable items based on scope. California State Fire Marshal project approval may be delayed until this form is completed and returned. If you have any questions, please contact the California State Fire Marshal Plan Review Section at (916) 445-8550.

Approved	Yes	No
Fire Department Access	X	
Fire Department Connection	X	
Fire Hydrant	X	
Fire Alarm Annunciator	X	
Fire Alarm Control Panel	X	
Main Campus Knox Box - Place Key(s)	X	
Emergency Responder Radio Coverage	X	
Medical Emergency Service Elevator		X
Fire Service Access Elevator		X

Local Fire Authority: _____
 Address: San Luis Obispo City Fire Department
 City/State: 2160 Santa Barbara Ave
 Approval issued by: _____
 Rank/Title: Fire Marshal
 Phone Number: (805) 781-7356
 Signature: _____ Date: 6-23-23

KEYNOTES

SITE PLAN LEGEND

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (E) BUILDING
- PATH OF TRAVEL (P.O.T.)
 - AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
 - IS AT LEAST 48" WIDE
 - NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" REVELED AT 12" MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4"
 - VERTICAL
 - THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH.
 - PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART
 - PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART
 - THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
 - (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).
 - ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE.
- FENCE LINE
- (E) FIRE HYDRANT
- FIRE HYDRANT
- DOUBLE DETECTOR CHECK ASSEMBLY & FIRE DEPARTMENT CONNECTION

DESIGN PROFESSIONAL IN GENERAL, RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-COMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

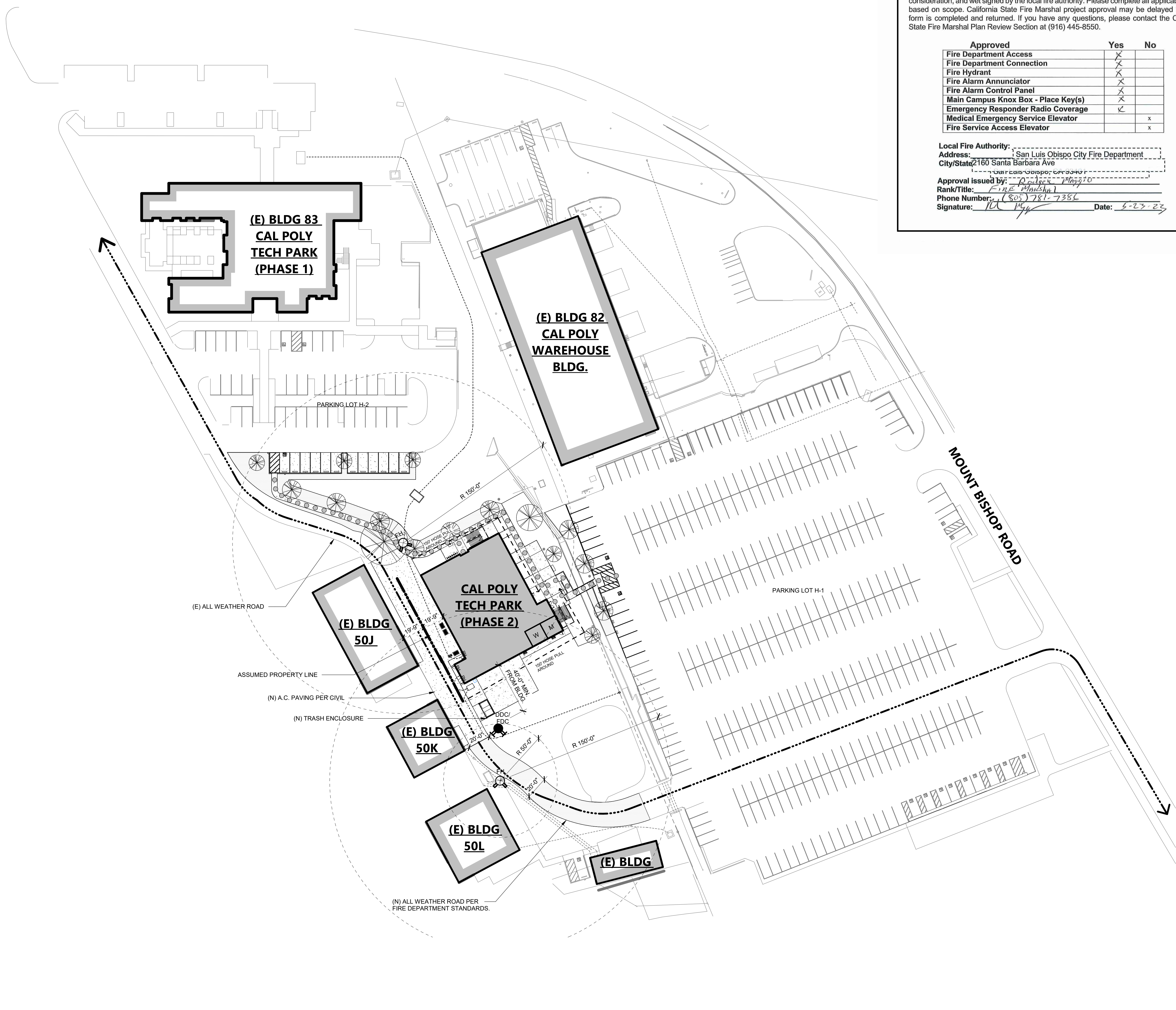
- W WOMENS RESTROOM
- M MENS RESTROOM
- U UNISEX RESTROOM
- DF HI-LOW DRINKING FOUNTAIN
- EXIT DISCHARGE PATH
- 20' WIDE FIRE ACCESS LANE WITH MINIMUM 50'-6" TURNING RADIUS

GENERAL NOTES

- ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T.
- ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS.
- FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
- THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.



CODE SITE PLAN 1" = 40'-0" 1



AGENCY APPROVAL DSAE 03-122884



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 TEL (888) 600-0324

ARCHITECT STAMP CONSULTANT STAMP

LICENSED ARCHITECT
 PAT GLEN WHELER
 03-22474
 APR 10 - 31-23
 STATE OF CALIFORNIA

NO.	DATE	DESCRIPTION

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CAL POLY UNIVERSITY
 SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

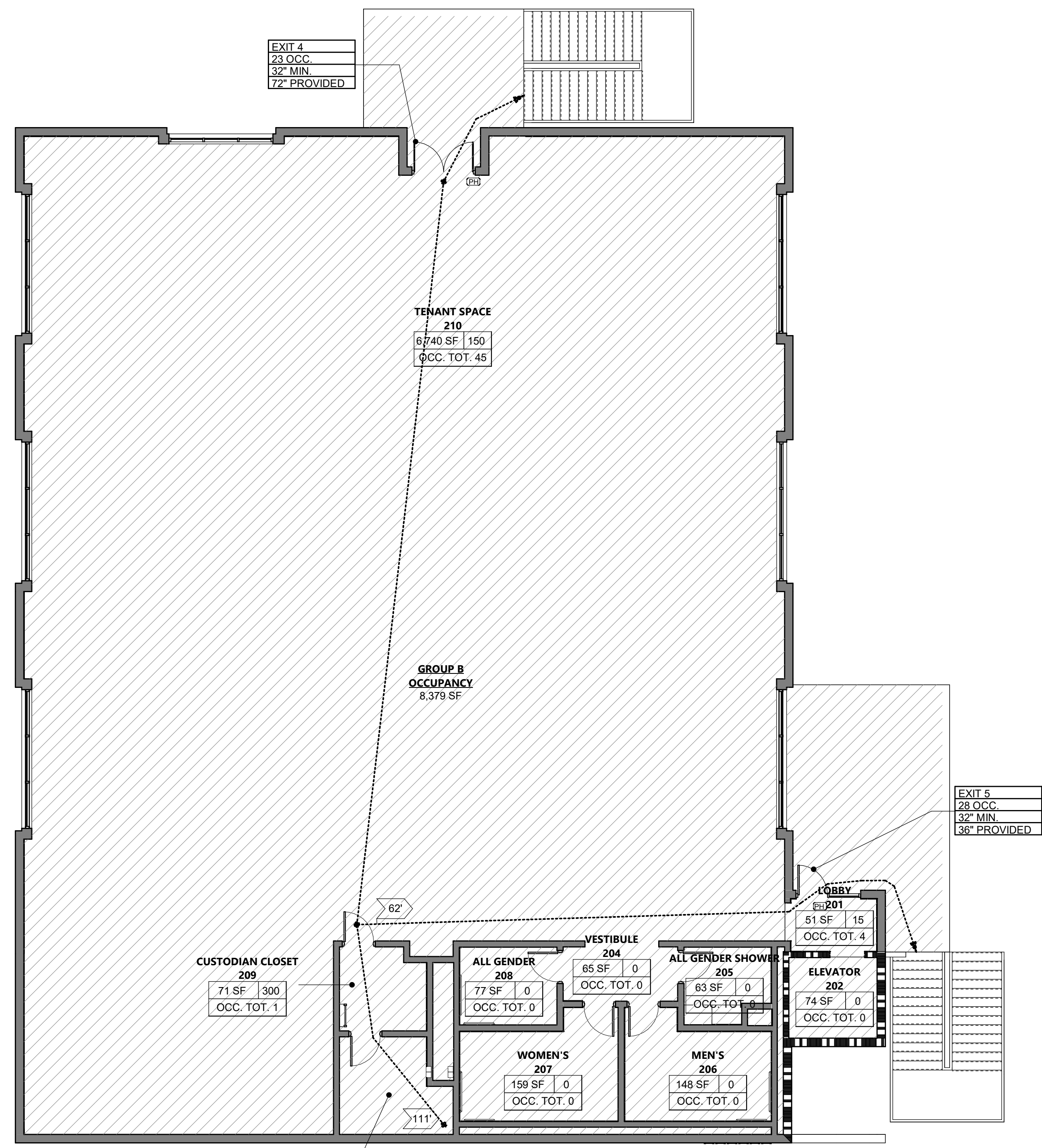
CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

SHEET TITLE
CODE SITE PLAN

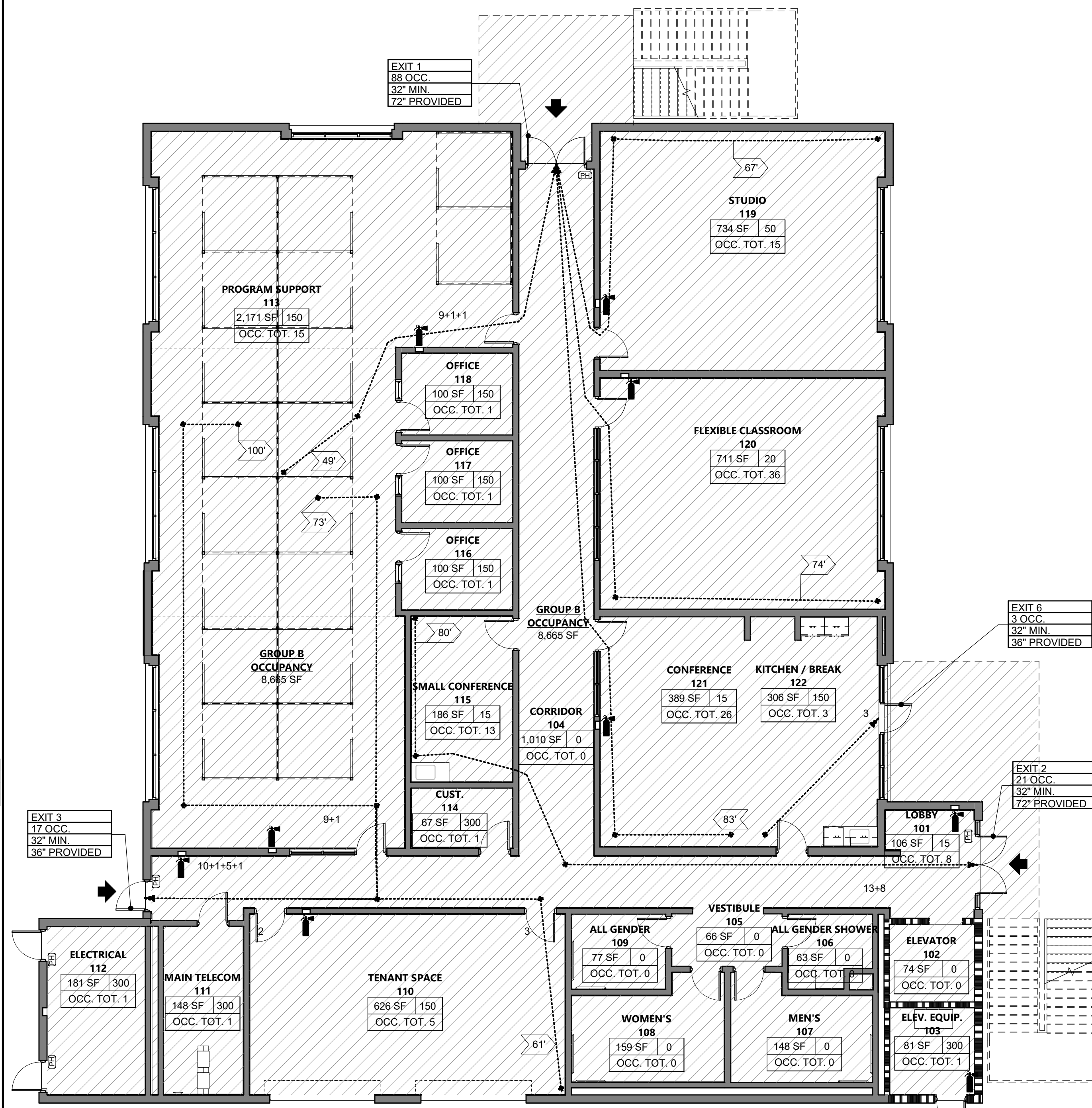
DRAWN BY: MB JOB NUMBER: 21179.01
 SHEET NO.

G-101
 DATE: MARCH 31, 2023

FILE LOCATION: C:\Users\parmentout\Documents\21179_01_Calpoly_DesignBuildTechPark_A22_pamentout.rvt
DATE PLOTTED: 5/23/2023 5:12:58 PM



CODE ANALYSIS SECOND FLOOR PLAN 1/8" = 1'-0" 2



CODE ANALYSIS FIRST FLOOR PLAN 1/8" = 1'-0" 1

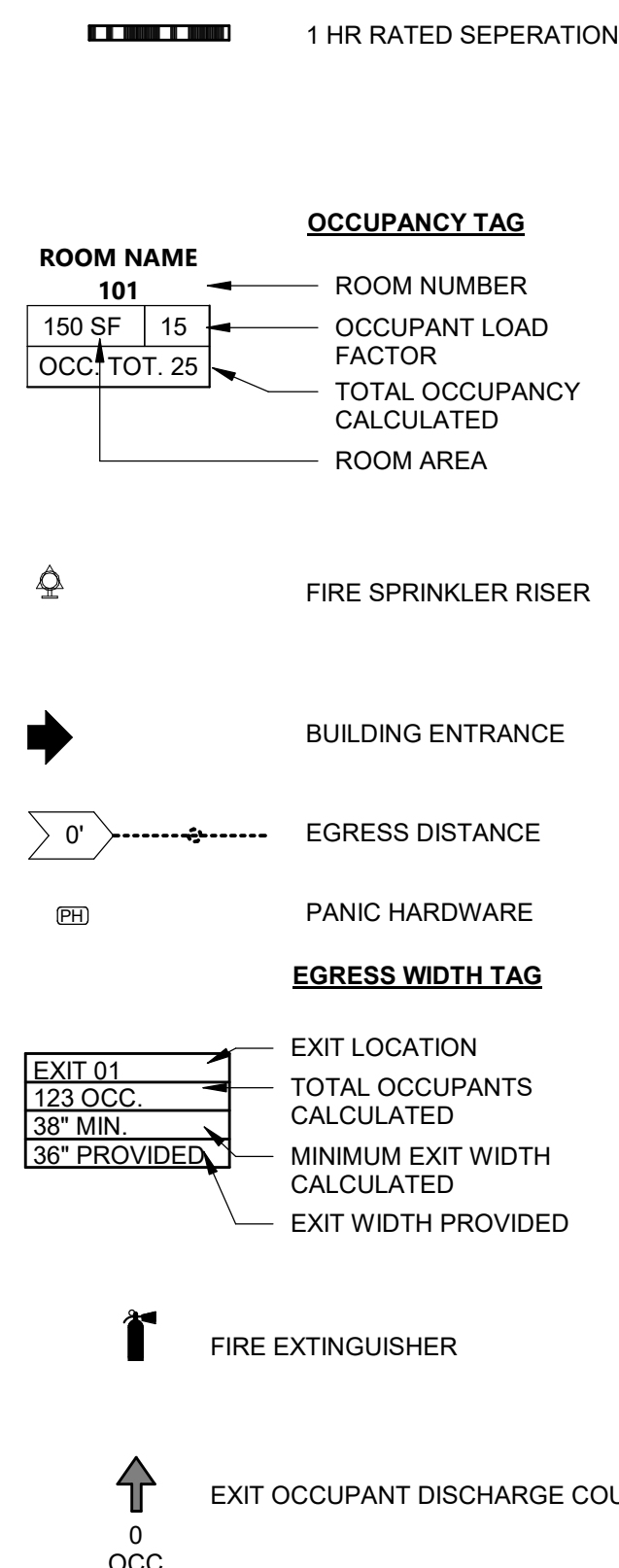
1ST FLOOR OCCUPANT CHART PER 2019 CBC TABLE 1004.5

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
101	LOBBY	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	106 SF	15 SF	8	B	49	2'-8"	1	1
102	ELEVATOR	N/A	74 SF	0 SF	0	B	49	2'-8"	1	1
103	ELEV. EQUIP.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	81 SF	300 SF	1	B	49	2'-8"	1	1
104	CORRIDOR	N/A	1,010 SF	0 SF	0	B	49	2'-8"	1	3
105	VESTIBULE	N/A	66 SF	0 SF	0	B	49	2'-8"	1	1
106	ALL GENDER SHOWER	N/A	63 SF	0 SF	0	B	49	2'-8"	1	1
107	MENS	N/A	148 SF	0 SF	0	B	49	2'-8"	1	1
108	WOMENS	N/A	159 SF	0 SF	0	B	49	2'-8"	1	1
109	ALL GENDER	N/A	77 SF	0 SF	0	B	49	2'-8"	1	1
110	TENANT SPACE	BUSINESS AREAS	626 SF	150 SF	5	B	49	2'-8"	1	1
111	MAIN TELECOM	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	148 SF	300 SF	1	B	49	2'-8"	1	1
112	ELECTRICAL	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	181 SF	300 SF	1	B	49	2'-8"	1	2
113	PROGRAM SUPPORT	BUSINESS AREAS	2,171 SF	150 SF	15	B	49	2'-8"	1	2
114	CUST.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	67 SF	300 SF	1	B	49	2'-8"	1	1
115	SMALL CONFERENCE	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	186 SF	15 SF	13	A	49	2'-8"	1	1
116	OFFICE	BUSINESS AREAS	100 SF	150 SF	1	B	49	2'-8"	1	1
117	OFFICE	BUSINESS AREAS	100 SF	150 SF	1	B	49	2'-8"	1	1
118	OFFICE	BUSINESS AREAS	100 SF	150 SF	1	B	49	2'-8"	1	1
119	STUDIO	EDUCATIONAL SHOPS AND OTHER VOCATIONAL ROOMS	734 SF	50 SF	15	B	49	2'-8"	1	1
120	FLEXIBLE CLASSROOM	EDUCATIONAL CLASSROOM AREA	711 SF	20 SF	36	A	49	2'-8"	1	1
121	CONFERENCE	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	389 SF	15 SF	26	A	49	2'-8"	1	2
122	KITCHEN / BREAK	BUSINESS AREAS	306 SF	150 SF	3	B	49	2'-8"	1	1
OCCUPANT TOTAL										

2ND FLOOR OCCUPANT CHART PER 2019 CBC TABLE 1004.5

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
201	LOBBY	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	51 SF	15 SF	4	B	49	2'-8"	1	1
202	ELEVATOR	N/A	74 SF	0 SF	0	B	49	2'-8"	1	1
203	VESTIBULE	N/A	65 SF	0 SF	0	B	49	2'-8"	1	1
204	ALL GENDER SHOWER	N/A	63 SF	0 SF	0	B	49	2'-8"	1	1
205	MENS	N/A	148 SF	0 SF	0	B	49	2'-8"	1	1
206	WOMENS	N/A	159 SF	0 SF	0	B	49	2'-8"	1	1
207	ALL GENDER	N/A	77 SF	0 SF	0	B	49	2'-8"	1	1
208	ALL GENDER	N/A	77 SF	0 SF	0	B	49	2'-8"	1	1
209	CUSTODIAN CLOSET	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	71 SF	300 SF	1	B	49	2'-8"	1	1
210	TENANT SPACE	BUSINESS AREAS	6,740 SF	150 SF	45	B	49	2'-8"	1	2
211	ELECTRICAL ROOM	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	100 SF	300 SF	1	B	49	2'-8"	1	1
OCCUPANT TOTAL										

CODE ANALYSIS LEGEND



CODE ANALYSIS SUMMARY

- OCCUPANCY CLASSIFICATION AND USE: B OFFICES AND TECHNICAL CLASSROOMS
- BUILDING CONSTRUCTION TYPE: II-B
- NUMBER OF STORIES: 2
- ACTUAL BUILDING HEIGHT: 43'-0"
- BUILDING AREA IN SQUARE FEET: 16,974 SF
- AREA OF PROJECT IN SQUARE FEET: +/- 61,553 SF
- SEPARATED OR NON-SEPARATED USE: NON SEPARATED
- ALLOWABLE ARE PER (CBC): 69,000 SF
- AREA INCREASE: NONE
- HEIGHT INCREASE: NONE
- FIRE SPRINKLERS: YES
A. TYPE: AUTOMATIC
- FIRE ALARM: YES
A. TYPE: AUTOMATIC
- OTHER FIRE PROTECTION SYSTEMS, IF ANY: NO
- SMOKE CONTROL SYSTEMS: NO
- OCCUPANT LOAD FOR ENTIRE BUILDING AND EACH FLOOR: 179
A. FIRST FLOOR: 128
B. SECOND FLOOR: 51
- YEAR BUILDING WAS CONSTRUCTED: NEW CONSTRUCTION
- IN HIGH FIRE SEVERITY ZONE: NO
- SEISMIC JOINTS: NO
- EMERGENCY RESPONDER RADIO COVERAGE: YES

2019 CALIFORNIA BUILDING CODE

602 CONSTRUCTION TYPE:

TYPE II-B

BUILDING SPRINKLER SYSTEM:

SM-H BUILDINGS TWO OR MORE STORIES ABOVE GRADE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 (WITHOUT HEIGHT INCREASE)

302 OCCUPANCY CLASSIFICATION:

OCCUPANCY TYPE: B

508 MIXED USE AND OCCUPANCY:

508.2 ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF.

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES (HOURS)

PRIMARY OCCUPANCY	SEPARATED OCCUPANCY	SPRINKLERED?	REQUIRED SEPARATION
GROUP B	GROUP B	YES	0 HR

509 INCIDENTAL USES
510 SPECIAL PROVISIONS

504 ALLOWABLE HEIGHT & STORIES:

OCCUPANCY	SPRINKLERS	CONSTRUCTION	ALLOWABLE	ACTUAL
GROUP B	SM-H	TYPE II-B	75'-0"	± 43'-0"
			4 STORIES	2 STORIES

506 ALLOWABLE AREA CALCULATIONS:

TABLE 506.2: TYPE II-B, "SM-H" TWO (2) OR MORE STORIES, BASIC ALLOWABLE AREA - 69,000 S.F. PER FLOOR

FLOOR	OCC. GROUP	A _B (SF)	NS (SF)	h	A ₁ (SF)	ACTUAL (SF)
FLOOR 1	B	69,000 SF	23,000 SF	0	69,000 SF	8,599 SF
FLOOR 2	B	69,000 SF	23,000 SF	0	69,000 SF	8,375 SF

TOTAL BUILDING AREA	RATIO=0.25	< Sa = 1 = OK	16,974 SF
---------------------	------------	---------------	-----------

FIRE RESISTANCE RATINGS:

TABLE 601 & TABLE 602 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENT	TYPE II-B	EXTERIOR NON-BEARING
PRIMARY STRUCTURAL FRAME	0 HR	FIRE SEPARATION DISTANCE WALL RATING FOR OCCUPANCY GROUP B
EXTERIOR BEARING WALL	0 HR	
INTERIOR BEARING WALL	0 HR	X < 5'-0"
INTERIOR NONBEARING	0 HR	5'-0" < X < 10'-0"
FLOOR & SECONDARY MEMBER	0 HR	10'-0" < X < 30'-0"
ROOF & SECONDARY MEMBER	0 HR	30'-0" < X

TABLE 705.8 MAXIMUM AREA OF EXT. WALL OPENING PER FIRE SEPARATION DIST.

EXTERIOR	SEPARATION	PROTECTION	ALLOWABLE OPENINGS	ACTUAL OPENINGS
NORTH WALL	X > 30'	UNPROTECTED, SPRINKLERED	3,149 SF	327 SF
EAST WALL	X > 30'	UNPROTECTED, SPRINKLERED	3,000 SF	912 SF
SOUTH WALL	X > 30'	UNPROTECTED, SPRINKLERED	3,149 SF	264 SF
WEST WALL	15' < X < 20'	UNPROTECTED, SPRINKLERED	2,250 SF	884 SF
			75%	29%

TABLE 1020.1 COORIDOR FIRE-RESISTANCE RATING

OCCUPANCY	OCCUPANT LOAD	W/SPRINKLERS
GROUP B	> 30	0 HR

PLUMBING CALCULATIONS

AREA	TABLE 4A			
	PLUMBING OCC.	PLUMB. OLF	TOTAL OCC. (AREAOUF)	MALE OCC.
495 SF	A-1	15	34	17
14,655 SF	B	200	88	56
15,150 SF			122	73

PER CPC TABLE 422.1 MINIMUM PLUMBING FACILITIES OCCUPANCY TYPE: B

REQUIRED WATER CLOSETS		URINALS		LAVATORIES	
MALE	FEMALE	MALE	MALE	MALE	FEMALE
2	4	1	1	1	2
DRINKING FOUNTAINS		OTHER		BATHTUBS OR SHOWERS	
1		1 SERVICE SINK			N/A

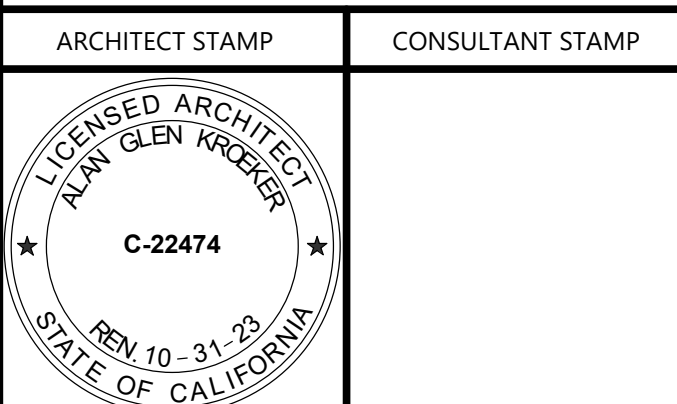
AGENCY APPROVAL DSAE 03-122884



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FIRE ALARM ENGINEER
DEEP BLUE INTEGRATION INC.
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NO.	DATE	DESCRIPTION

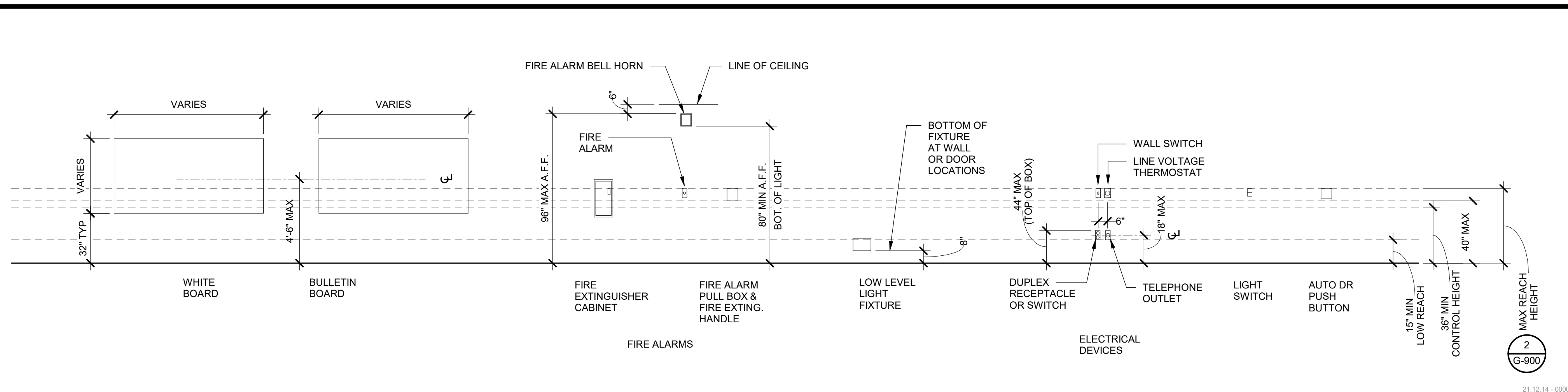
THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
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SAN LUIS OBISPO
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San Luis Obispo, CA 93407

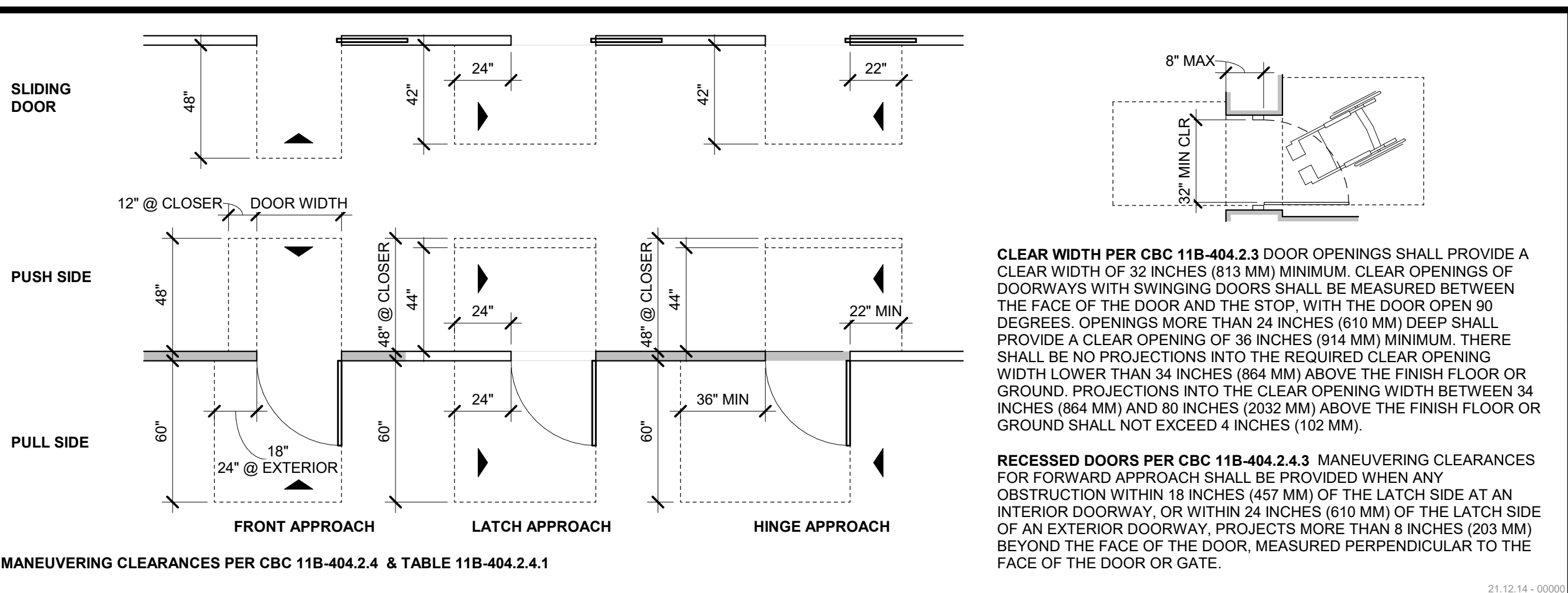
CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
CODE FLOOR PLANS
DRAWN BY: XX JOB NUMBER: 21179.01
SHEET NO.
G-201
DATE: MARCH 31, 2023

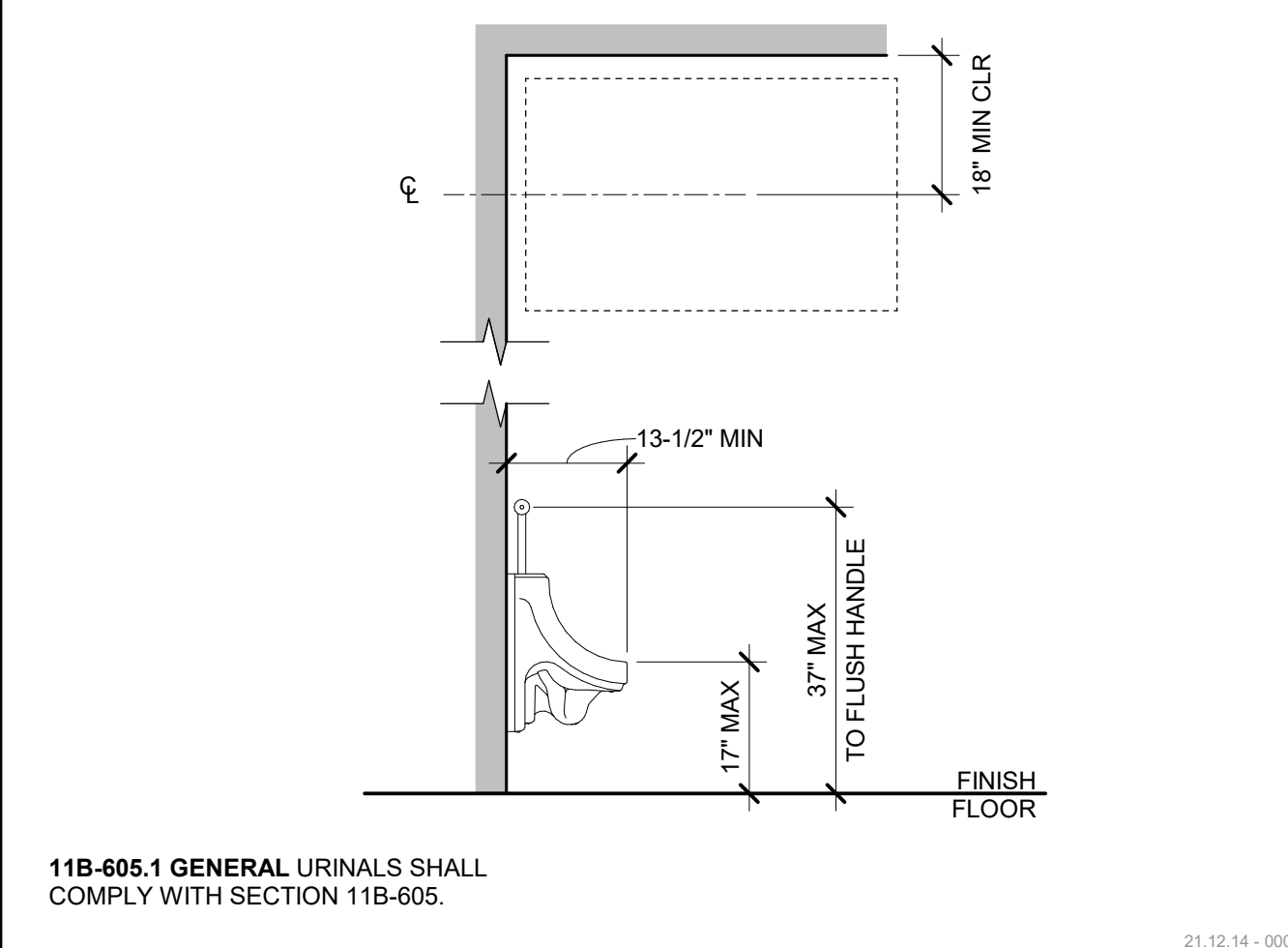
CONSTRUCTION DOCUMENTS



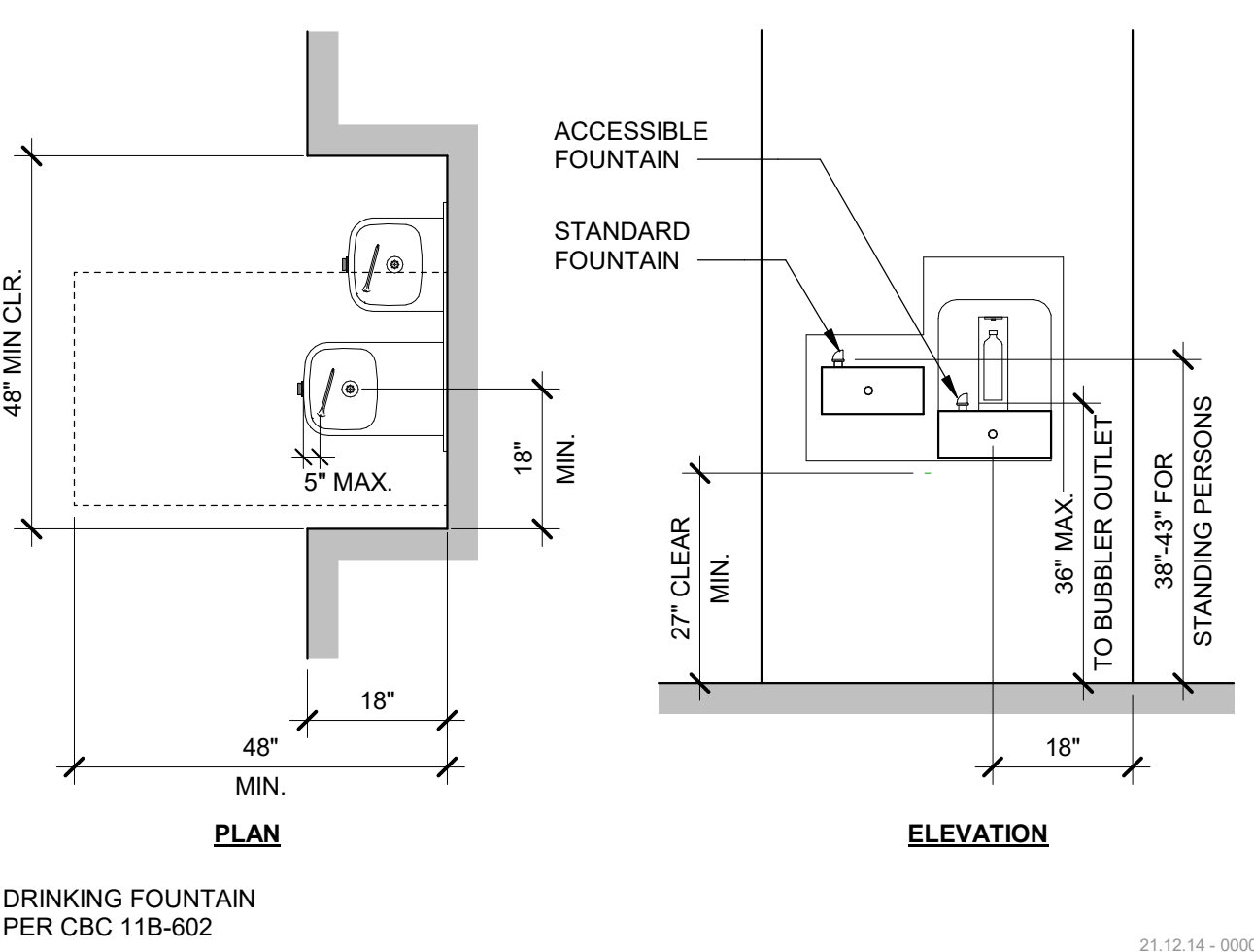
TYPICAL MOUNTING HEIGHTS 1/4" = 1'-0" **11**



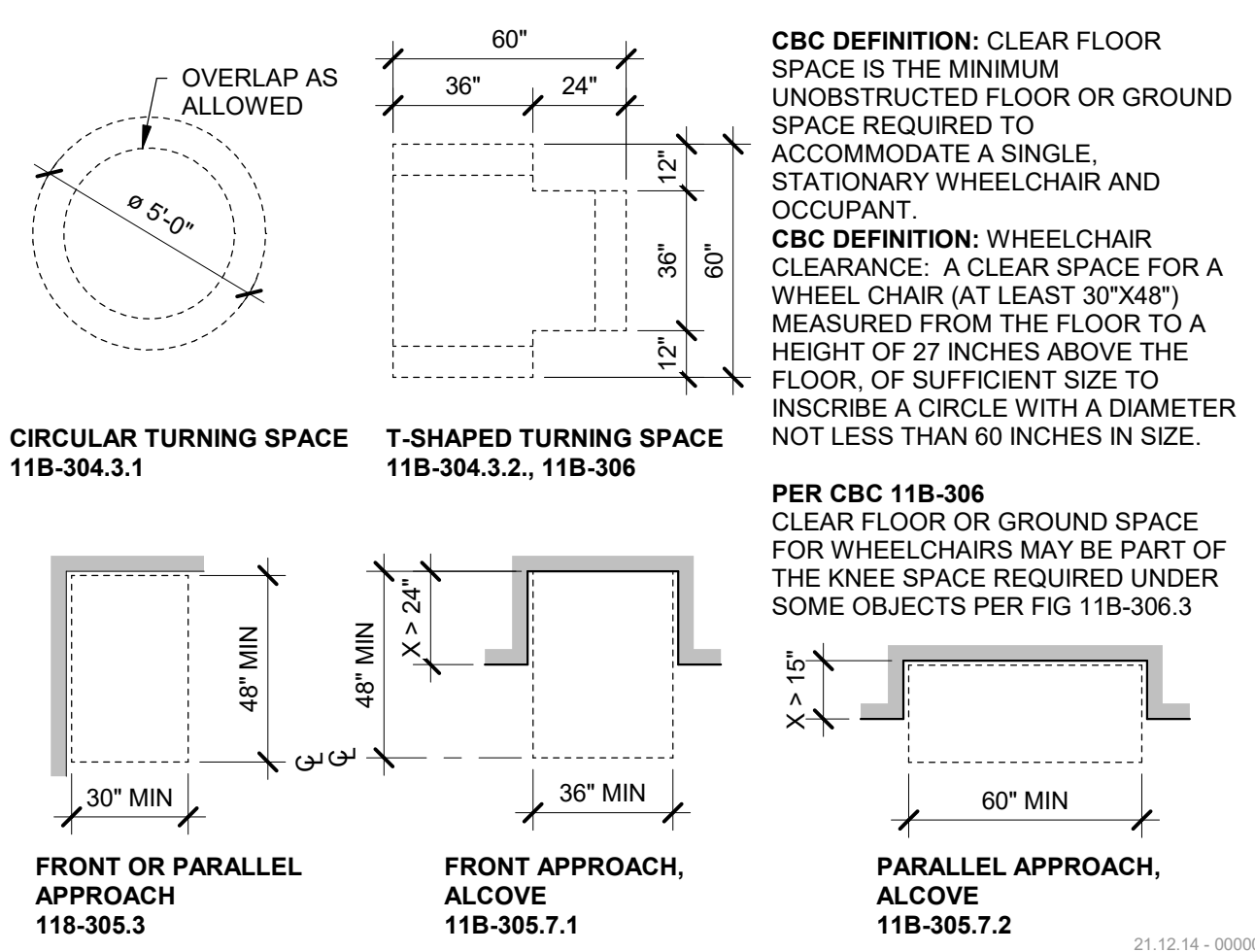
CLEAR AREA AT DOORS 1/4" = 1'-0" **1**



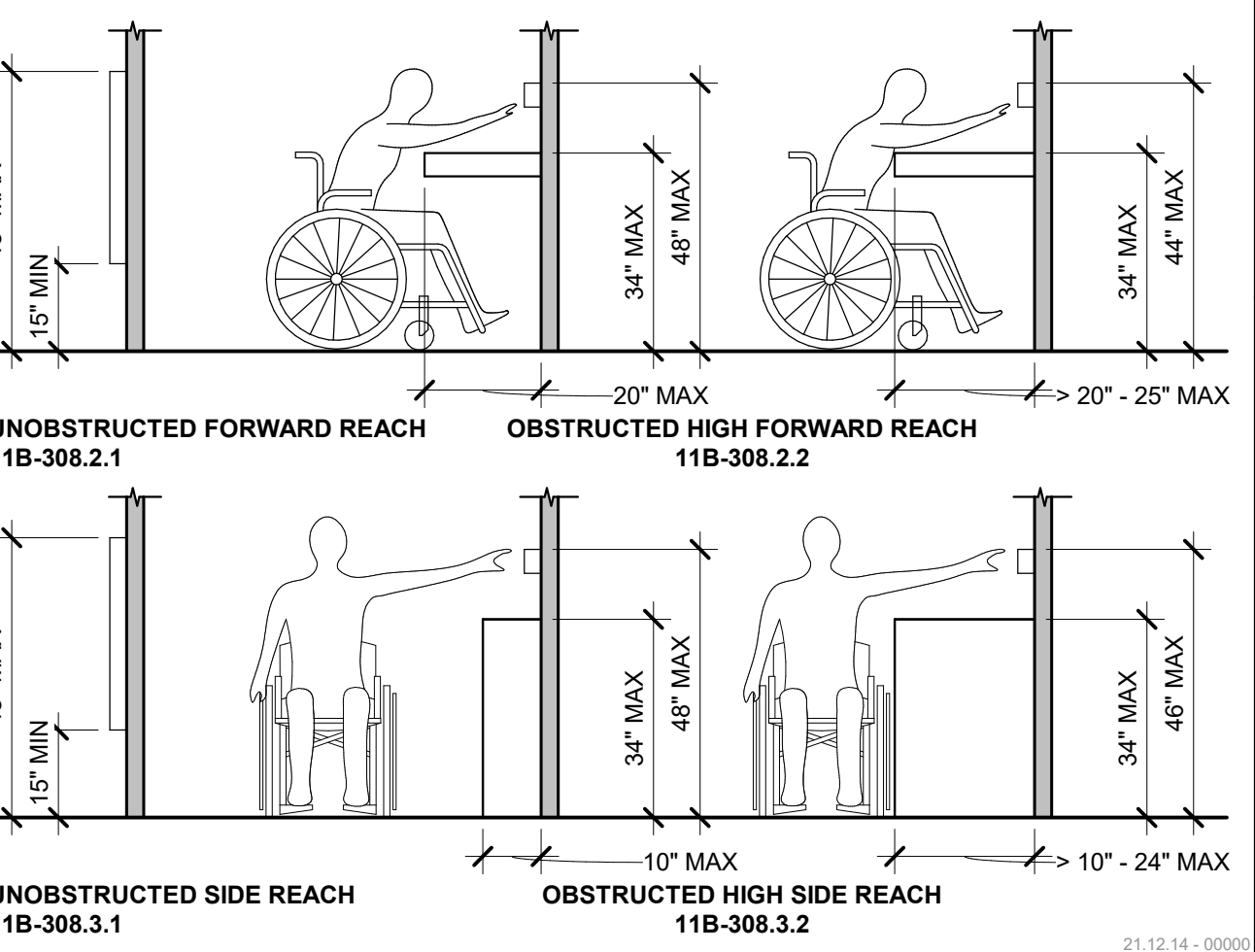
ACCESSIBLE URINAL 1/2" = 1'-0" **17**



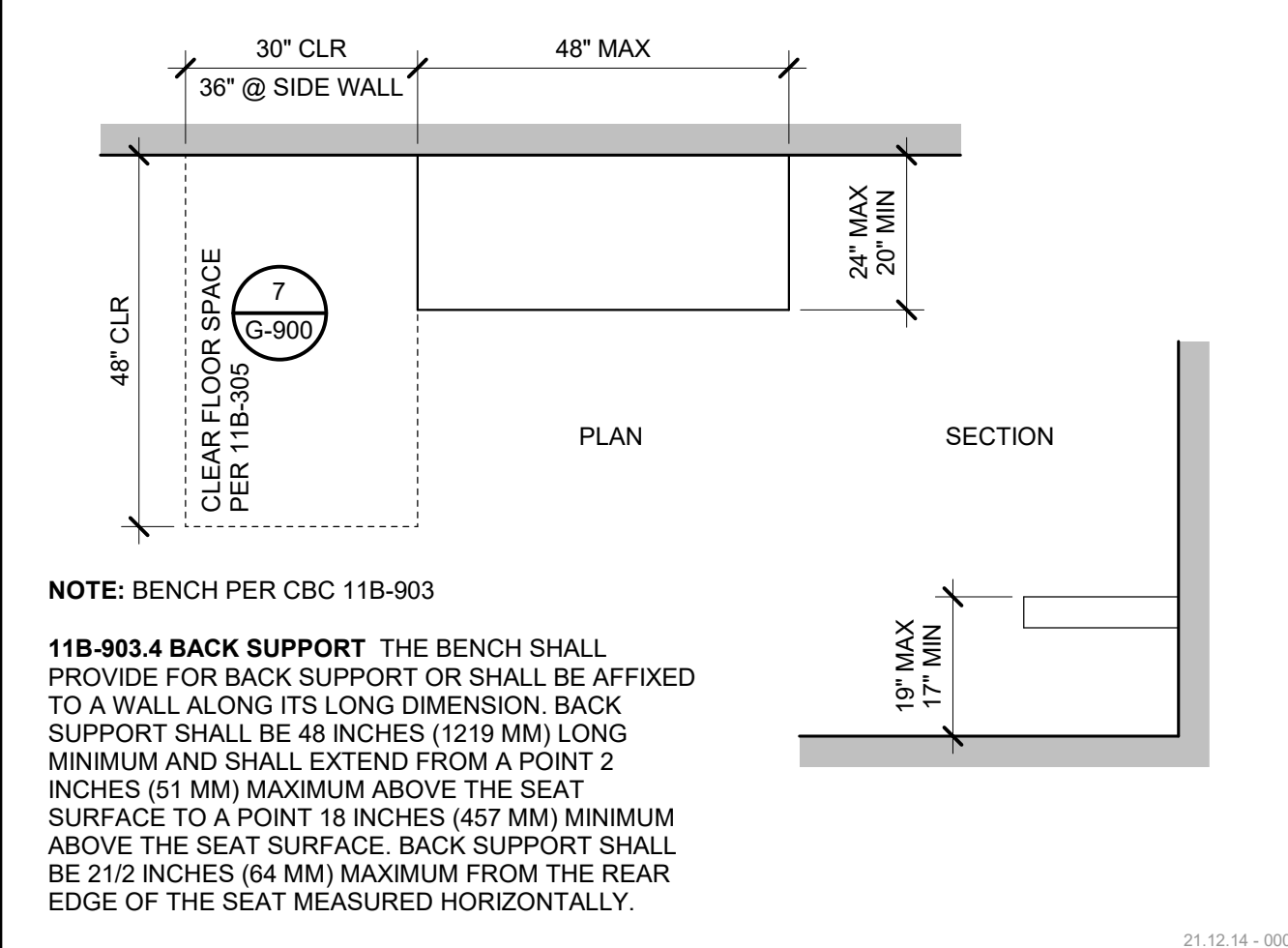
DRINKING FOUNTAIN ALCOVE 1/2" = 1'-0" **12**



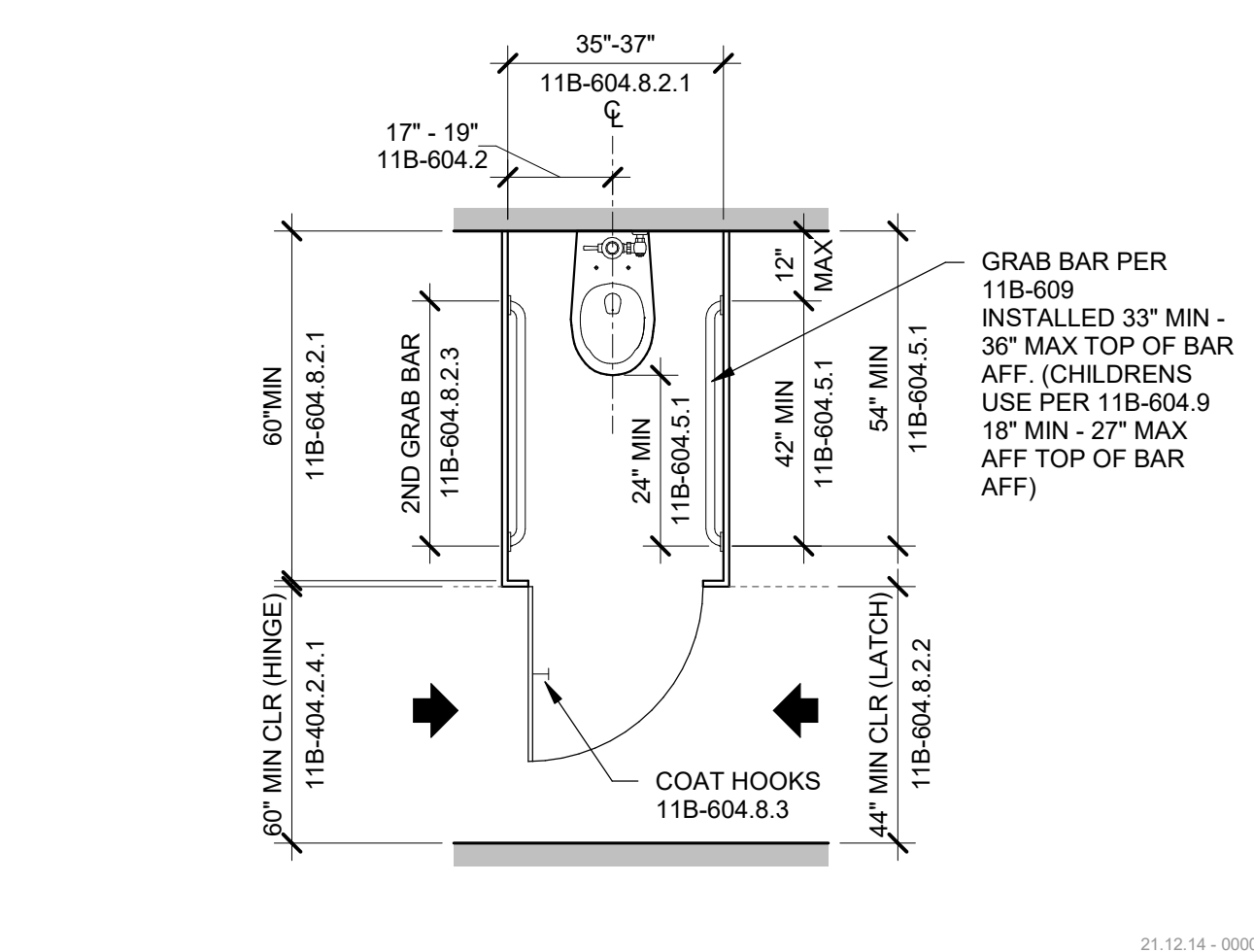
TURNING SPACE, CLEAR FLOOR SPACE 1/4" = 1'-0" **7**



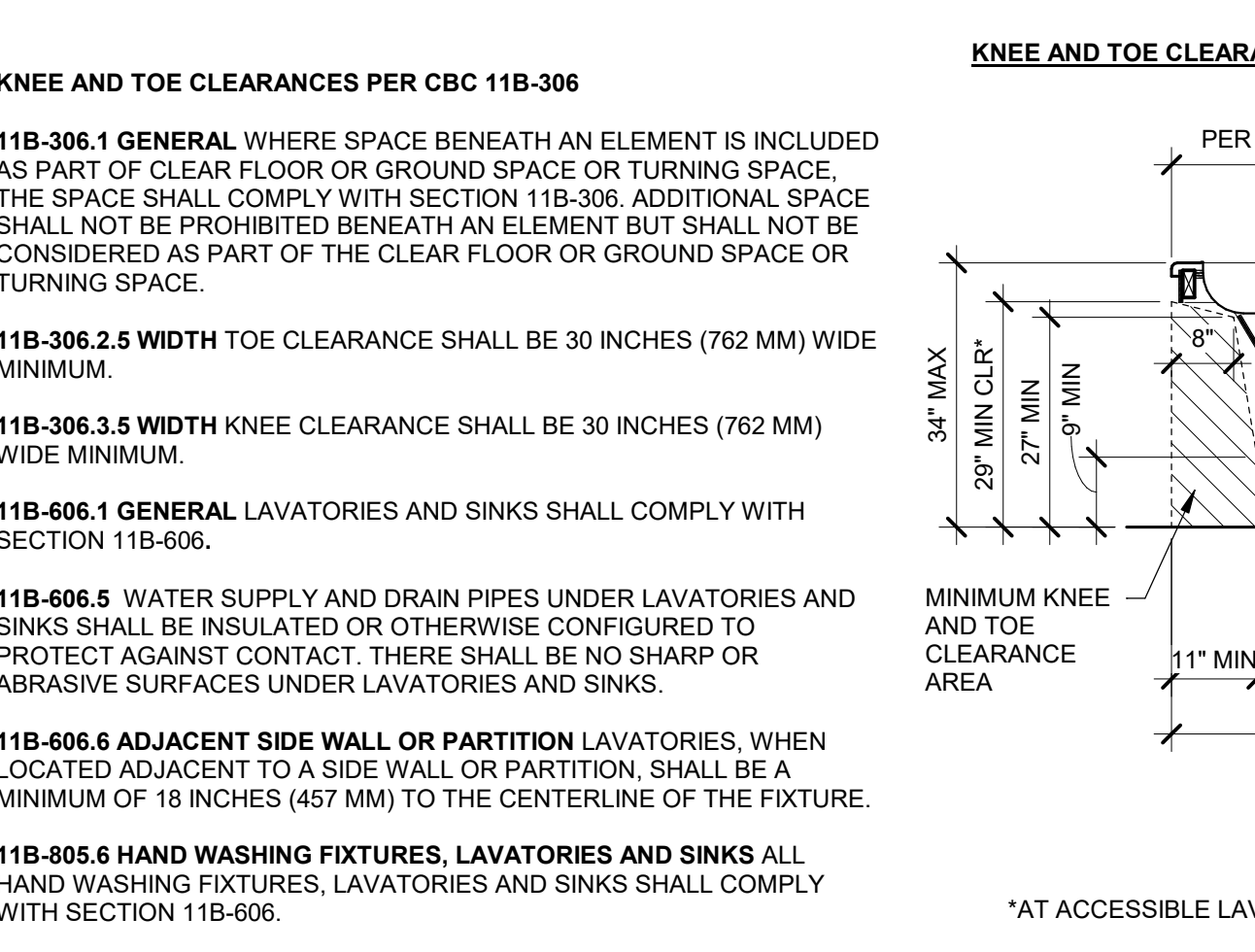
REACH RANGE 3/8" = 1'-0" **2**



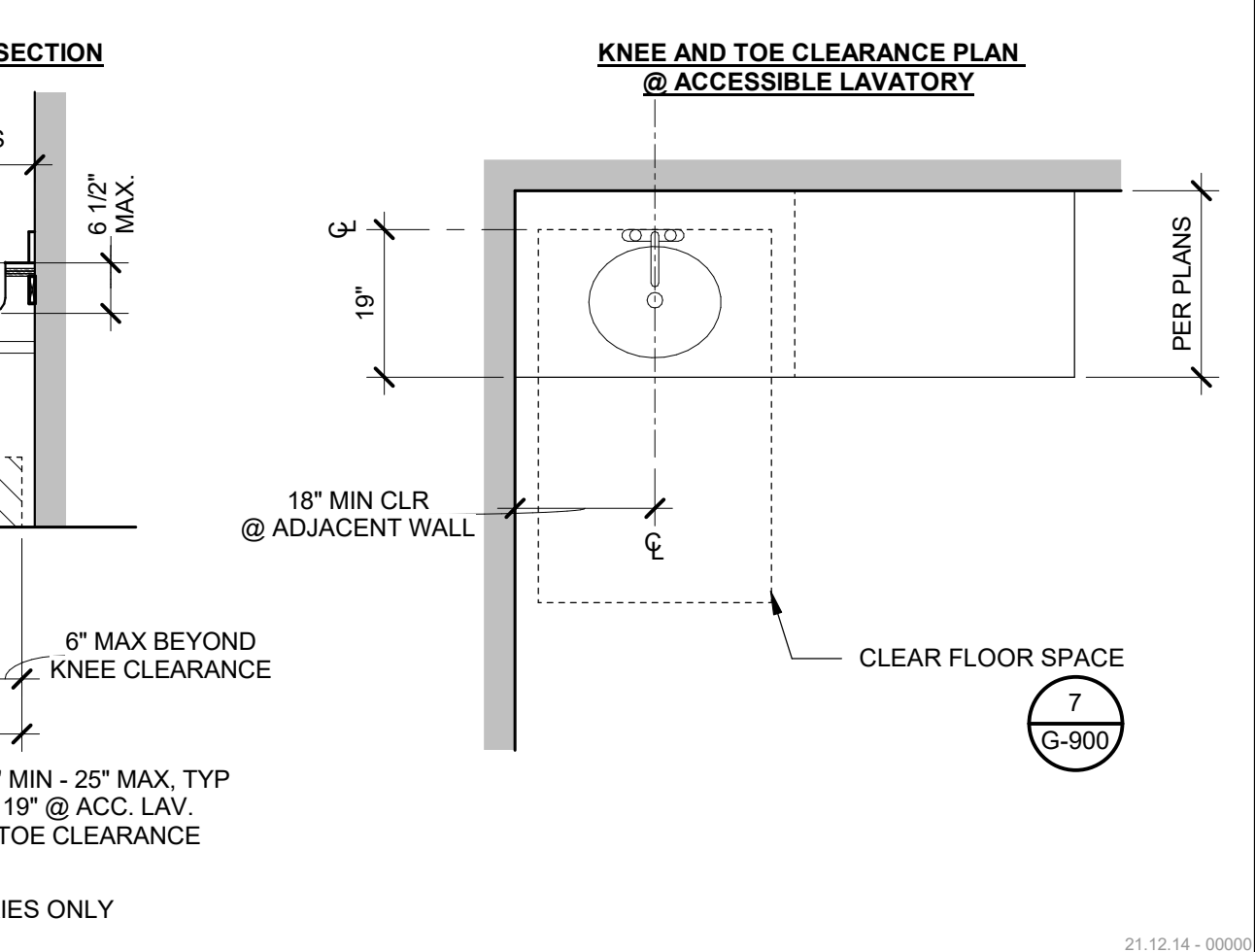
ACCESSIBLE BENCH 1/2" = 1'-0" **18**



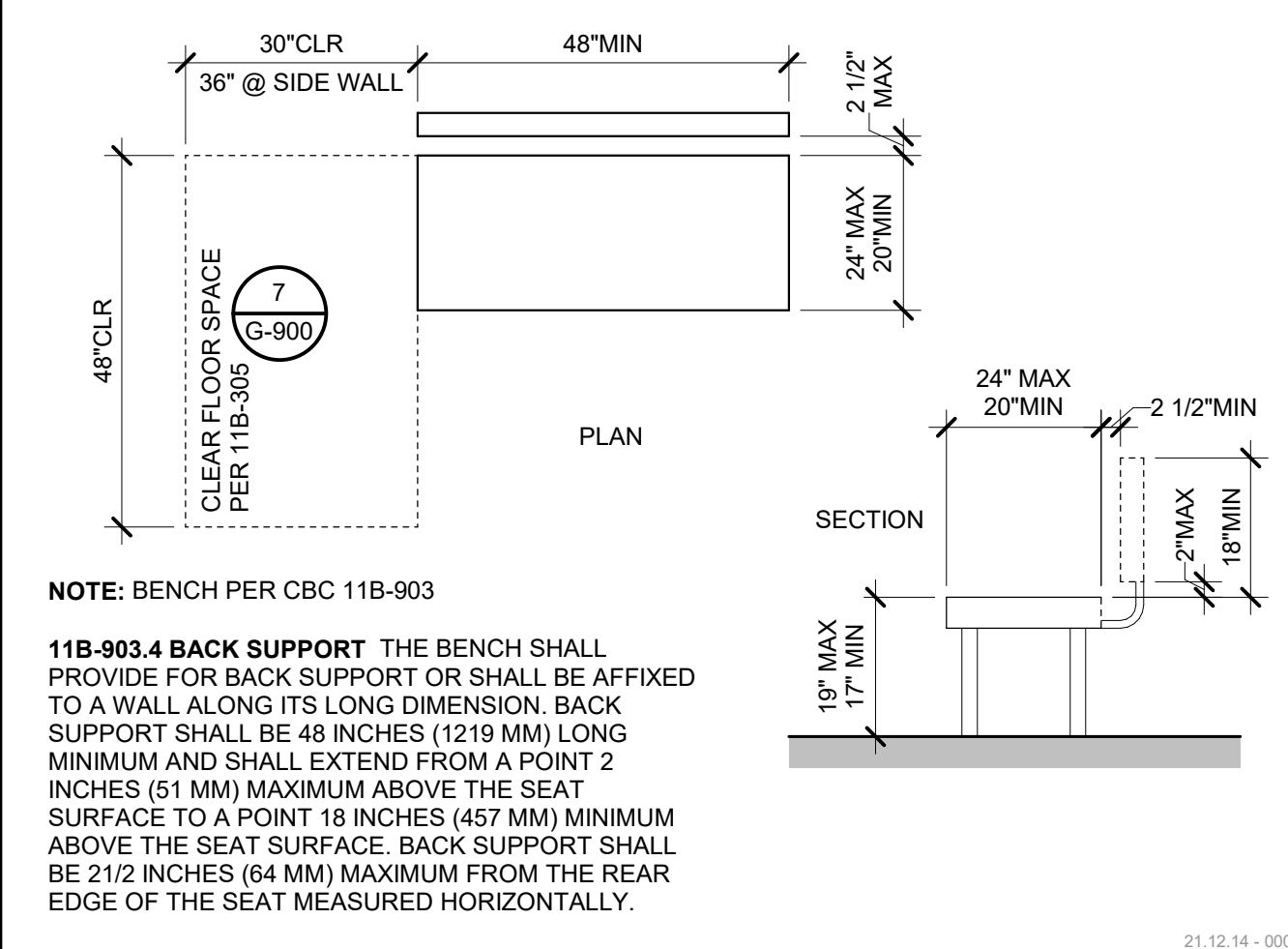
AMBULATORY WATER CLOSET 3/8" = 1'-0" **13**



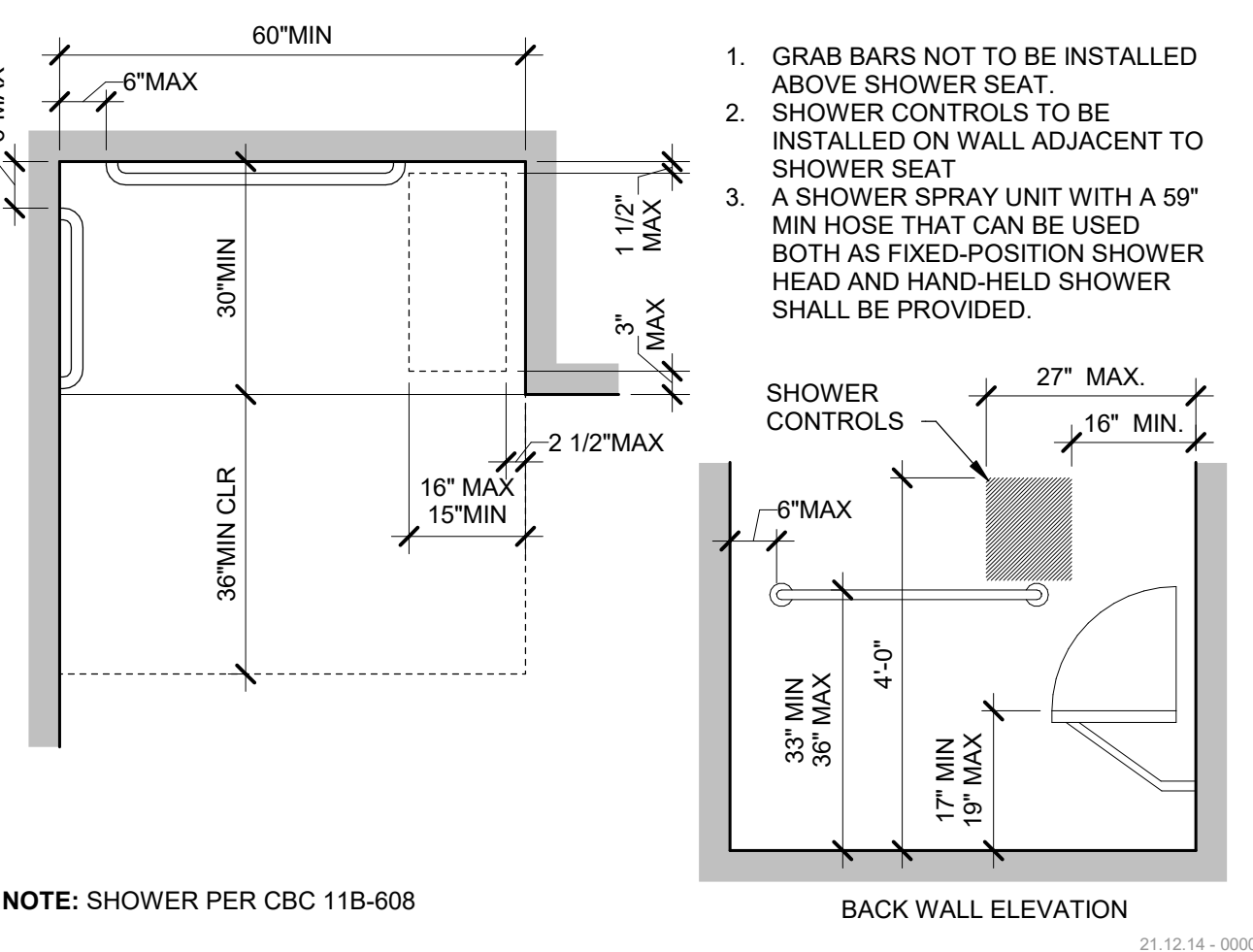
KNEE AND TOE CLEARANCE 1/2" = 1'-0" **3**



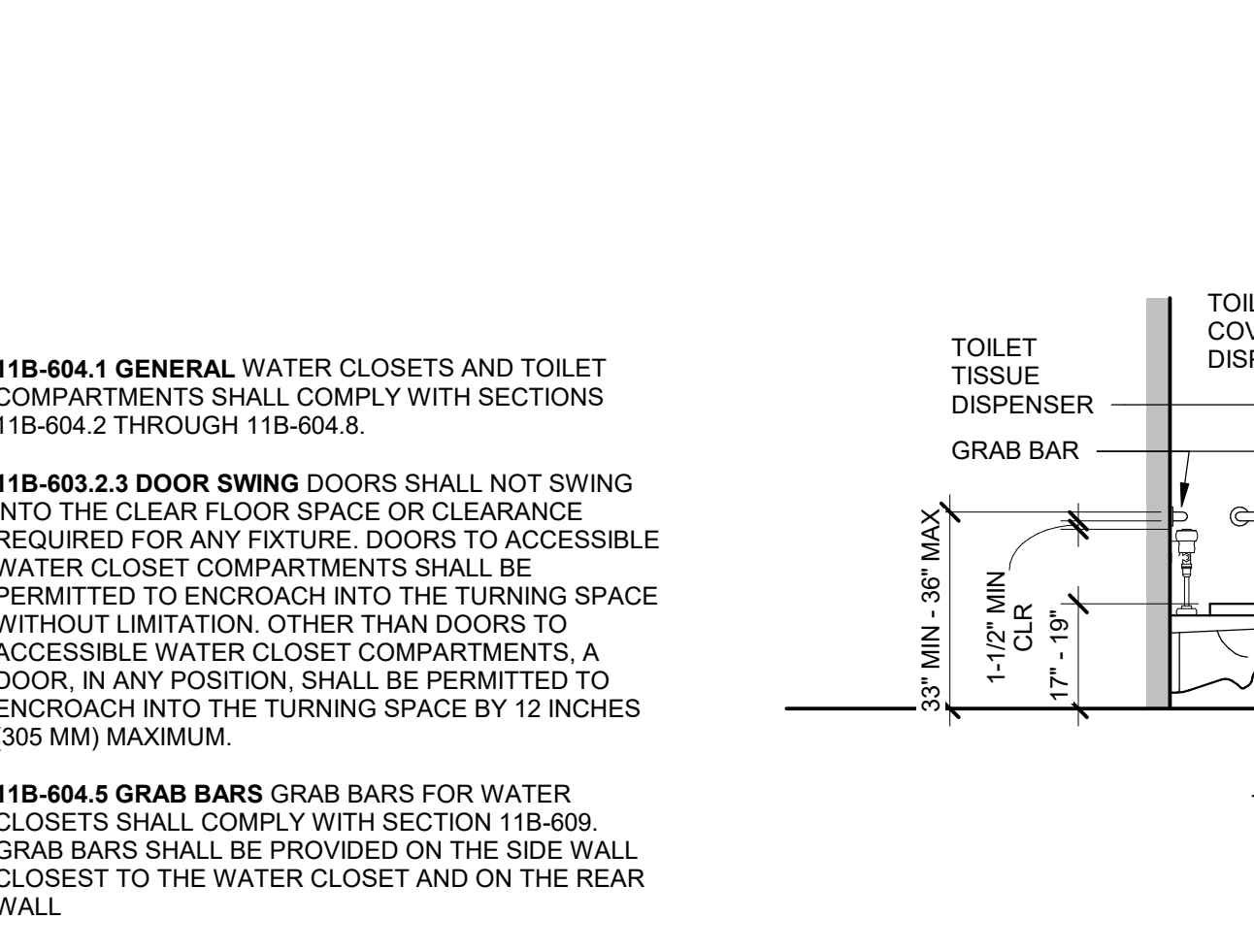
KNEE AND TOE CLEARANCE 1/2" = 1'-0" **3**



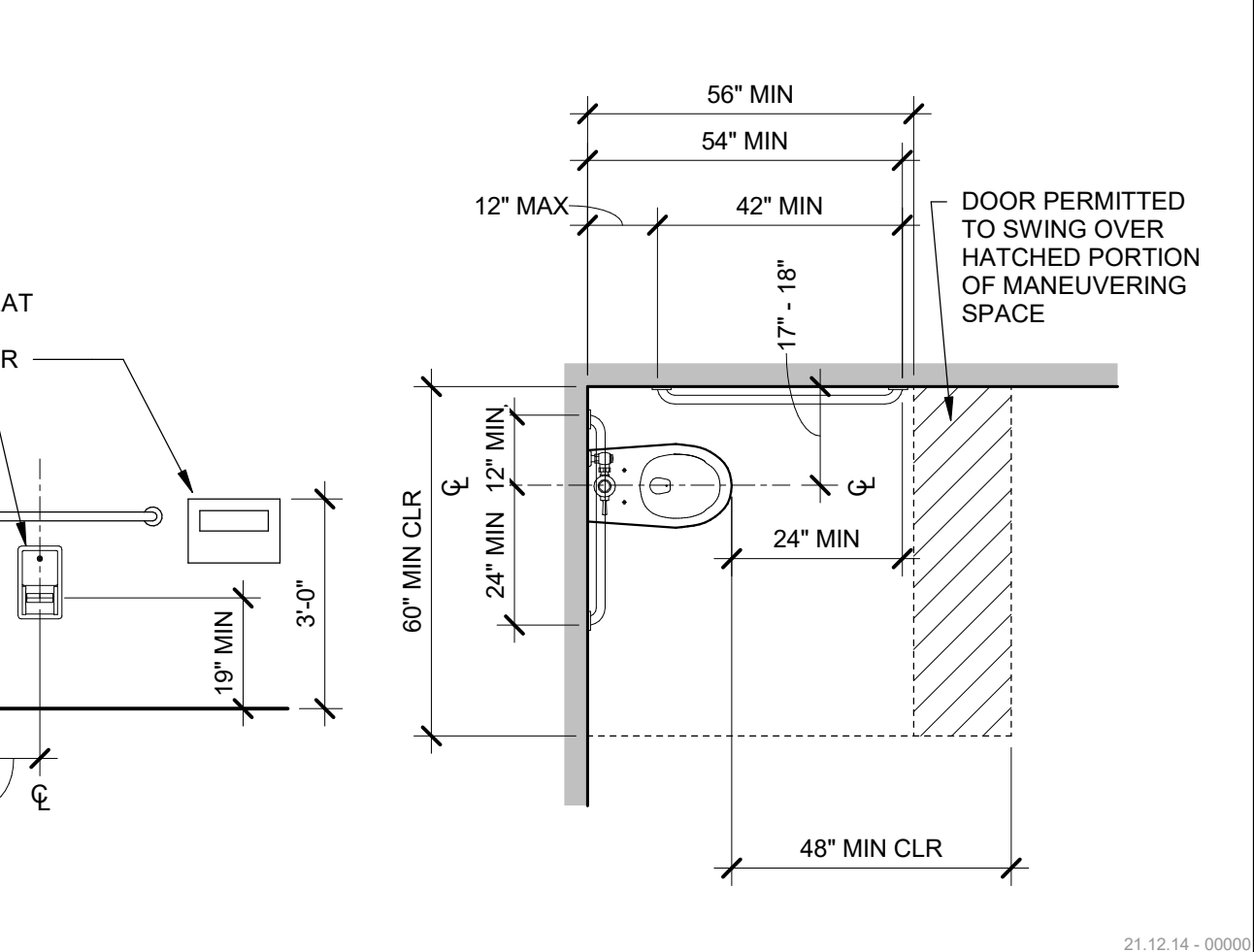
ADA BENCH W/ BACK SUPPORT 1/2" = 1'-0" **19**



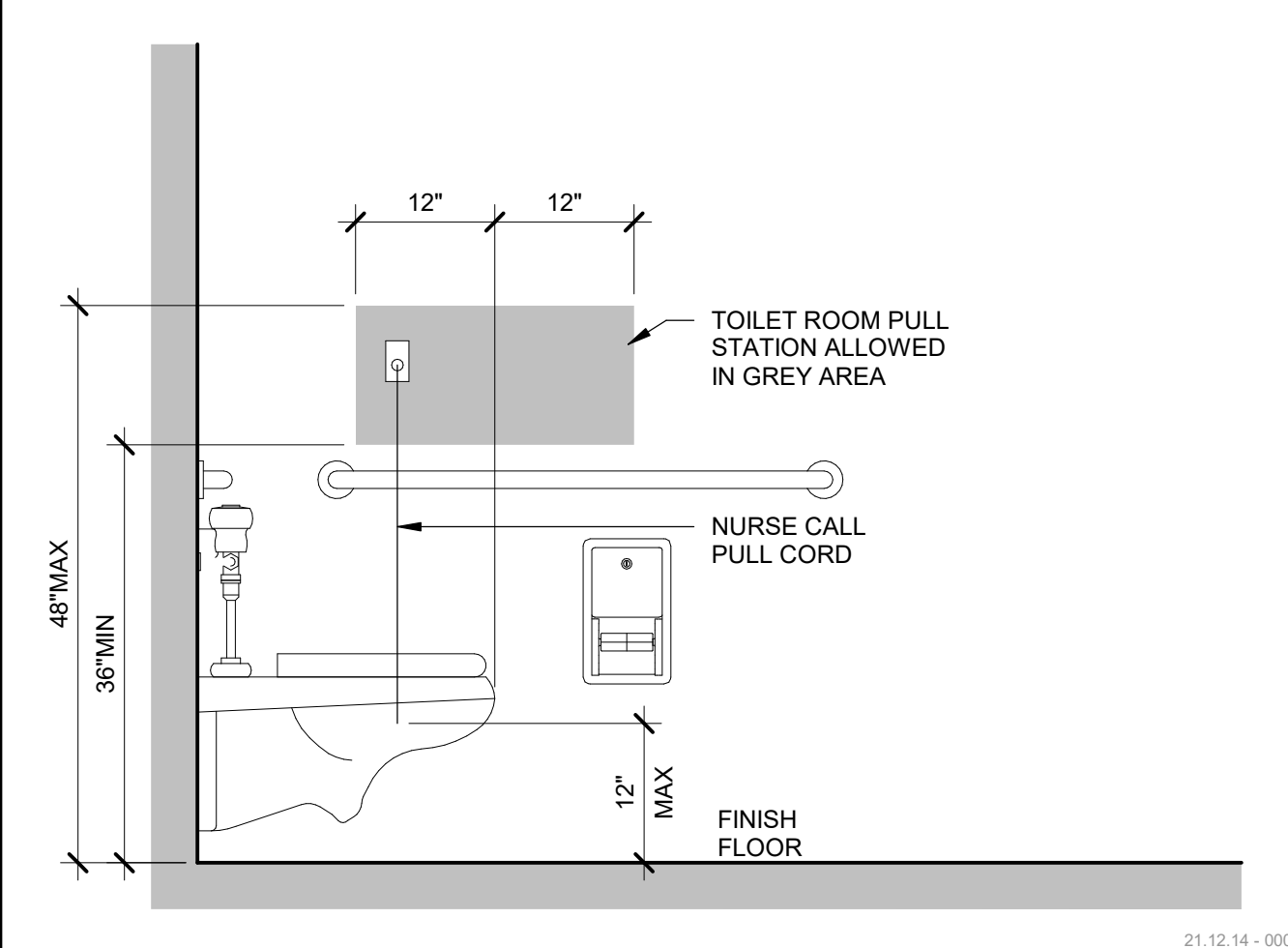
SHOWER, STANDARD ROLL-IN 1/2" = 1'-0" **14**



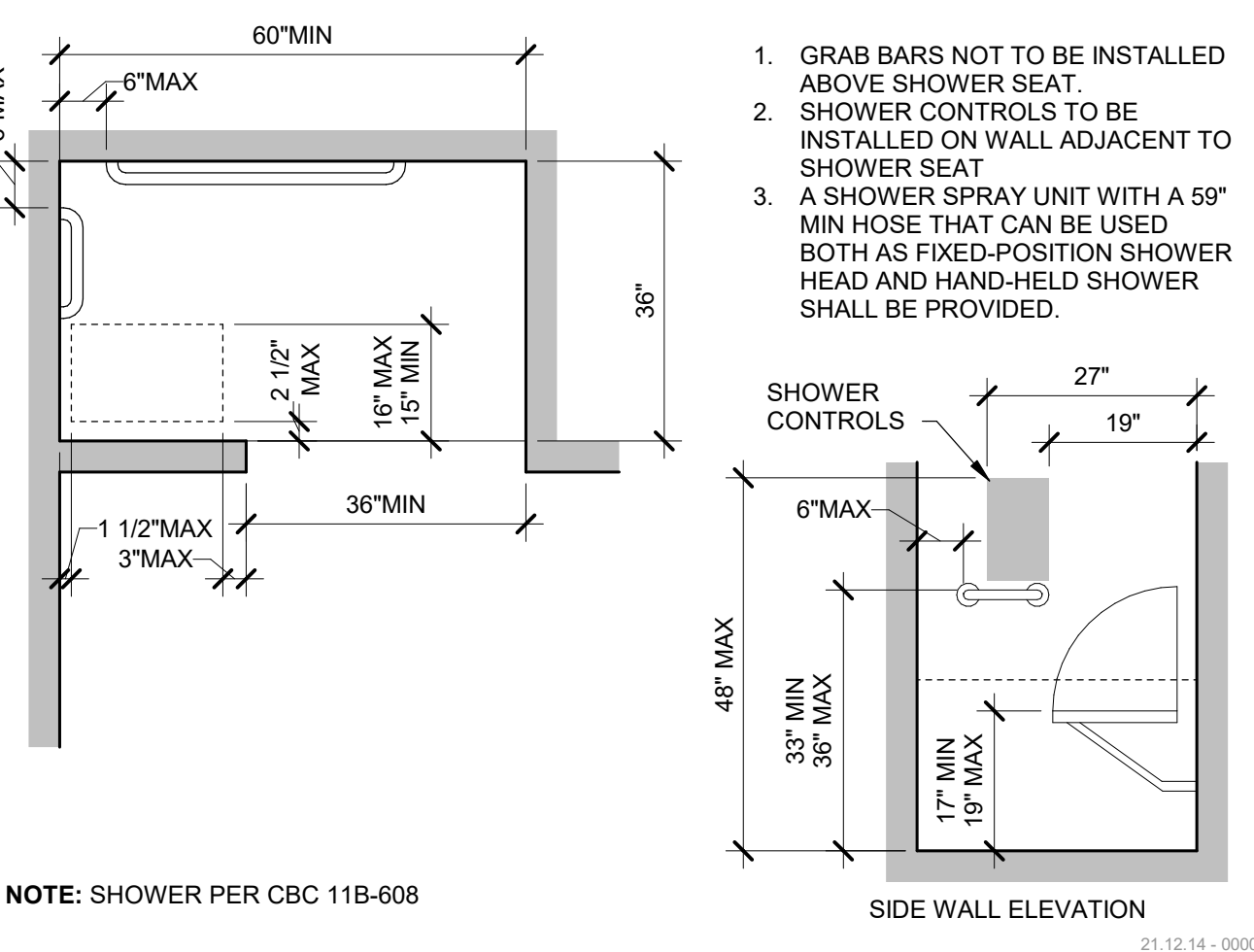
ACCESSORIES



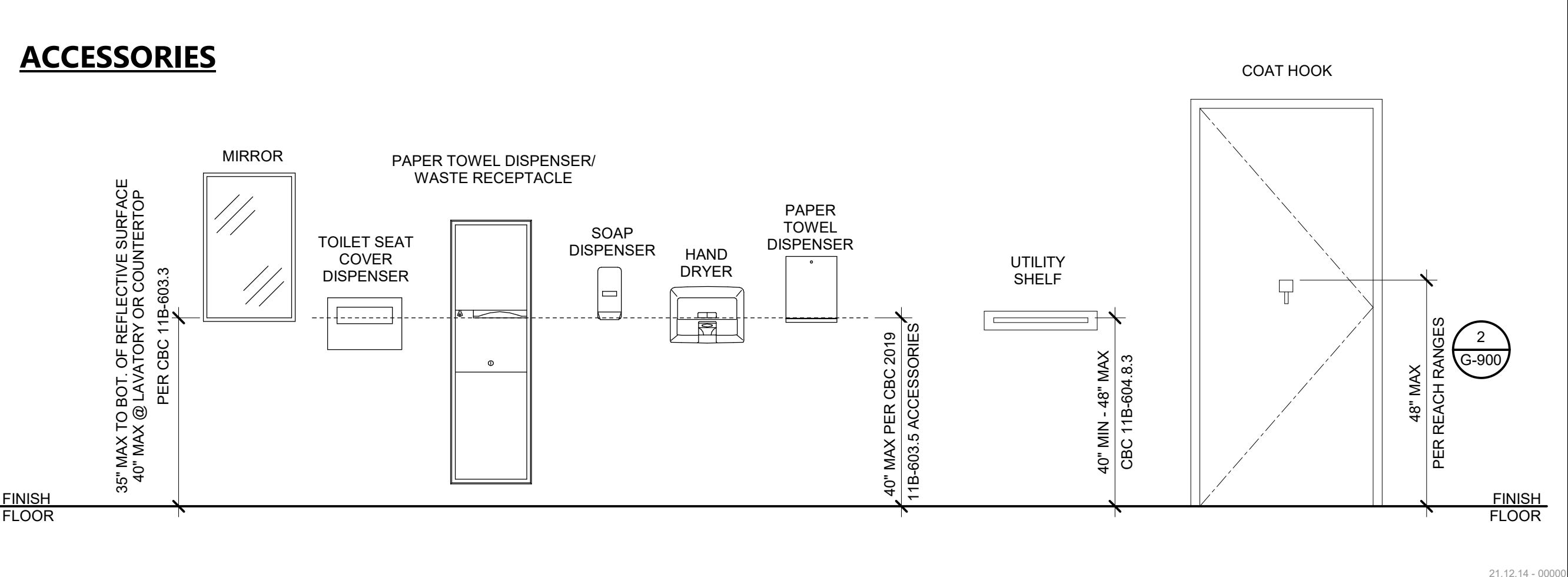
ACCESSIBLE WATER CLOSET 3/8" = 1'-0" **4**



TOILET ROOM NURSE CALL LOCATION 3/4" = 1'-0" **20**



SHOWER, ALTERNATE ROLL-IN 1/2" = 1'-0" **15**



ACCESSIBLE FIXTURE DIMENSION 1/2" = 1'-0" **5**

AGENCY APPROVAL **CSU** 03-122864

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not constitute or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: **DSM** 07/19/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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19.6

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ARCHITECT STAMP

LICENSED ARCHITECT
STATE OF CALIFORNIA
C-22474
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REN 10-31-23

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

ACCESSIBILITY CLEARANCES

DRAWN BY: Author JOB NUMBER: 21170.01

SHEET NO.

G-900

DATE: MARCH 31, 2023

GRADING NOTES:

- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITION OF THE JOB SITE DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE DESIGN PROFESSIONAL FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK AREA AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE AND REPAIR TO THEIR ORIGINAL CONDITIONS ALL EXISTING IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA WHICH ARE NOT DESIGNED FOR REMOVAL, AND ARE DAMAGED OR REMOVED AS A RESULT OF THIS OPERATION.
- IN THE EVENT THAT PROJECT CONSTRUCTION CONTINUES DURING WET WINTER MONTHS, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN OR WINTERIZE THE ROADS FOR EMERGENCY VEHICLES.
- THE CONTRACTOR IS RESPONSIBLE TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS, AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION, OR THE MATERIALS USED IN THE CONSTRUCTION.
- ALL GRADING SHALL CONFORM TO CALIFORNIA POLYTECHNIC STATE UNIVERSITY ORDINANCES AND STANDARDS PERTAINING THERETO (2019 CALIFORNIA BUILDING CODES) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CALIFORNIA POLYTECHNIC STATE UNIVERSITY ORDINANCES.
- IN THE EVENT CONSTRUCTION STAKING BASED ON DPSI PLANS, DRAWINGS, OR OTHER DOCUMENTS IS PERFORMED BY ANOTHER FIRM, DPSI SHALL BE HELD HARMLESS AND RELEASED FROM ALL LIABILITY ARISING FROM THE USE OF SAID PLANS, DRAWINGS, OR OTHER DOCUMENTS.
- SHOULD ANY CULTURAL MATERIALS BE DISCOVERED DURING GRADING OR DEVELOPMENT, ALL WORK SHALL BE HALTED AND A QUALIFIED ARCHAEOLOGIST / HISTORIAN CONTACTED TO ASSESS THE FINDS AND IMPOSE MITIGATION MEASURES, IF NECESSARY, PRIOR TO RESUMPTION OF CONSTRUCTION.
- AN EFFORT HAS BEEN MADE TO DEFINE THE LOCATION OF UNDERGROUND FACILITIES WITHIN THE JOBSITE. HOWEVER, ALL EXISTING UTILITY AND OTHER UNDERGROUND STRUCTURES MAY NOT BE SHOWN ON THIS PLAN AND THEIR LOCATIONS WHEN SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES AND OTHER FACILITIES, BOTH KNOWN AND UNKNOWN, PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT U.S.A. (811) FOR UTILITY LOCATION 48 HOURS PRIOR TO ANY EXCAVATION OR TRENCHING.
- THE CONTRACTOR SHALL MARK ALL UTILITY LOCATIONS AND SHALL POTHOLE ALL UTILITY CROSSINGS, PRIOR TO STAKING AND PRIOR TO ANY PIPELINE EXCAVATION TO ALLOW GRADE REVISIONS IF NECESSITATED BY ACTUAL LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE AND ACCURATE RECORD OF ALL CHANGES TO THE PLANS. NO CHANGES SHALL BE MADE WITHOUT APPROVAL OF THE PROJECT ENGINEER AND CAL POLY PROJECT MANAGER.
- ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE OBSERVED BY A LICENSED CIVIL ENGINEER TO DETERMINE IF THE IMPROVEMENTS ARE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THE REQUEST FOR THE FINAL INSPECTION ONLY WHEN THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CIVIL ENGINEER SHALL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
- THE SOILS ENGINEER AND CAL POLY PROJECT MANAGER MUST APPROVE ALL SOIL COMPACTION INCLUDING THE STABILITY OF ALL SLOPES, BOTH THOSE THAT ARE CREATED BY AND THOSE REMAINING AFTER GRADING OPERATIONS.
- SOILS ENGINEER AND CAL POLY PROJECT MANAGER SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF ANY FILL.
- ALL WORK SHALL BE DONE IN CONFORMANCE WITH CALIFORNIA POLYTECHNIC STATE CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS. COMPACTION TESTS SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE ENGINEER.
- FILL MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- FILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING SIX (6) INCHES IN COMPACTED THICKNESS AND COMPACTED TO OPTIMUM MOISTURE CONTENT OR ABOVE BY AN APPROVED METHOD.
- ENGINEERED FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY UNLESS OTHERWISE NOTED.
- THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
- ALL GRADING SHALL CONFORM TO TITLE 19 OF THE CALIFORNIA BUILDING CODE AND STANDARDS PERTAINING THERETO.
- ALL CUT SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED IN A SOILS REPORT.
- ALL FILL SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
- AN OSHA PERMIT IS REQUIRED WHEN WORKERS MUST ENTER TRENCHES OR EXCAVATION FIVE (5) FEET OR DEEPER.
- ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.
- ALL SLOPES IN EXCESS OF 3' IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION.
- GRADING WORK WILL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH TITLE 19 AND THE CALIFORNIA BUILDING CODE.
- FILL AREAS SLOPING STEEPER THAN 5:1 SHALL BE KEYED AND BENCHED TO SUPPORT THE FILL.
- BERMS OF DRAINAGE DEVICES SHALL BE PLACED AT THE TOP OF ALL FILL SLOPES.
- DPSI, INC. SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY DPSI, INC.
- IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE PLAN AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWING OR SPECIFICATIONS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID FOR THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS CONTRACT. DUST CONTROL SHALL CONFORM TO THE SAN LUIS OBISPO COUNTY AIR POLLUTION CONTROL DISTRICT REGULATIONS. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - WATER SHALL BE APPLIED TO ALL UNPAVED AREAS AS REQUIRED TO PREVENT THE SURFACES FROM BECOMING DRY ENOUGH TO PERMIT DUST FORMATION.
 - PAVED SURFACES OVER WHICH VEHICULAR TRAFFIC IS PERMITTED TO TRAVEL SHALL BE KEPT FREE OF DIRT.
- ALL GRADING SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION PREPARED BY EARTH SYSTEMS PACIFIC, TITLED: GEOTECHNICAL ENGINEERING REPORT CAL POLY TECH PARK II MOUNT BISHOP ROAD SAN LUIS OBISPO, CALIFORNIA, DATED JULY 19, 2021, AND SIGNED BY ROBERT DOWN.

SEWER NOTES

- ALL SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND WITH THE CAL POLY STANDARD SPECIFICATIONS AND CAL POLY STANDARD DETAILS, AND THE CURRENT CALIFORNIA PLUMBING CODE.
- ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF CRITERIA FOR SEPARATION OF WATER MAINS AND SANITARY SEWERS.
- GRAVITY SEWER CONSTRUCTION SHALL BEGIN AT THE LOWEST POINT OF DISCHARGE AND PROCEED UPSTREAM.
- CONTRACTOR SHALL MAINTAIN RECORDS OF THE EXACT LOCATIONS AND DEPTHS OF ALL SEWER MANHOLES, CLEANOUTS, MAIN STUBS, AND LATERALS FOR THE PURPOSE OF PROVIDING A BASIS FOR CONSTRUCTION-RECORD DRAWINGS. SAID RECORD SHALL BE DELIVERED TO THE DEVELOPER'S ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY CALIFORNIA POLYTECHNIC STATE UNIVERSITY PER CAMPUS STANDARD SPECIFICATION SECTION 01 78 39 PROJECT RECORD DOCUMENTS.
- ALL SEWER MANHOLE AND CLEAN-OUT RIMS SHALL BE ADJUSTED TO FINISH GRADE IN PAVED AREAS.

STORM DRAIN NOTES

- ALL STORM DRAIN MATERIAL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, INCLUDING THE CAL POLY STANDARD SPECIFICATIONS AND DETAILS.
- GRAVITY STORM DRAIN WORK SHALL BEGIN AT THE LOWEST POINT OF DISCHARGE AND PROCEED UPSTREAM.
- POLYVINYL CHLORIDE (PVC) PIPE FOR 4" THROUGH 15" SIZE SHALL COMPLY WITH THE MOST RECENT ISSUE OF ASTM STANDARD D-3034 (SDR 35) AND SECTION 33-42-11 OF THE CAL POLY STANDARD SPECIFICATIONS. INSTALLATION PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO PREVENT BELL SPLITTING OR OVER BELLING (OVER INSERTION).
- QUALITY REVIEW AND REPORTING MEASUREMENTS:
 - CONTRACTOR SHALL REQUEST INSPECTION BY ENGINEER OF WORK AFTER INSTALLATION AND ASSEMBLY OF STORM DRAINAGE PIPING, BUT BEFORE COVERING.
 - CONTRACTOR SHALL REQUEST INSPECTION BY ENGINEER OF WORK AFTER FORMING AND PLACING REINFORCING STEEL FOR CAST-IN-PLACE DRAINAGE STRUCTURES, BUT BEFORE SCHEDULING THE CONCRETE POUR.
 - WITHIN TEN (10) WORKING DAYS OF COMPLETION OF THE STORM DRAIN SYSTEM AND BEFORE CONSTRUCTION OF PAVEMENT, WALKWAYS AND OTHER PERMANENT SURFACE IMPROVEMENTS, CONTRACTOR SHALL PROVIDE A CONSTRUCTION RECORD DRAWING OF THE SYSTEM TO INCLUDE TOP OF GRATE OR COVER AND INLET AND OUTLET INVERT ELEVATIONS OF ALL STORM DRAIN STRUCTURES. ELEVATION MEASUREMENTS SHALL BE ACCURATE TO 0.01 FEET.
 - UPON COMPLETION OF CONSTRUCTION OF THE STORM DRAIN SYSTEM AND WITH 48 HOURS NOTICE TO ENGINEER OF WORK, CONTRACTOR SHALL THOROUGHLY CLEAN AND WASH DOWN ALL INLETS AND STORM DRAIN PIPING USING FIRE HYDRANT FLOWS.

WATER NOTES

- WATER IMPROVEMENTS SHALL BE INSTALLED PER CAL POLY STANDARD SPECIFICATIONS DIVISION 33 -- UTILITIES.

UNDERGROUND UTILITY STATEMENT

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

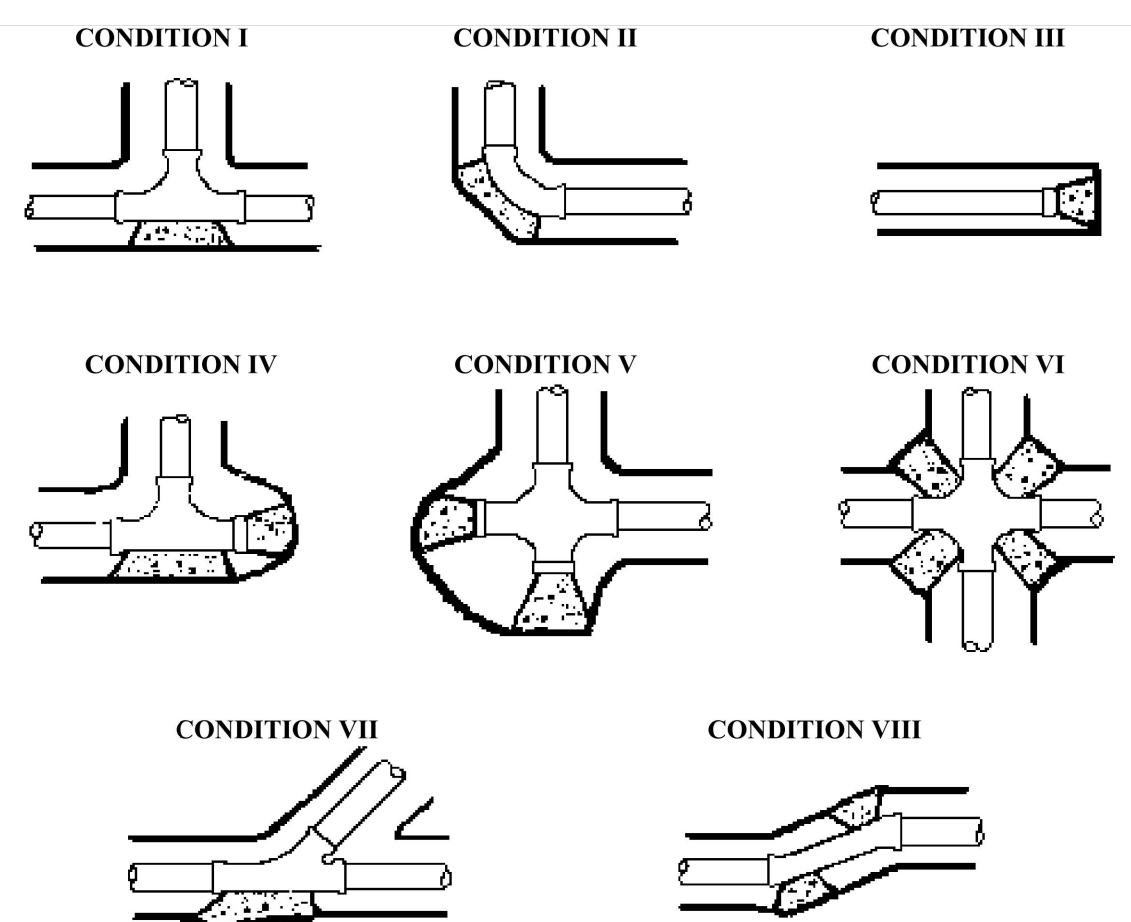
ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA.

UNDERGROUND SERVICE ALERT SHALL BE CONTACTED TWO WORKING DAYS PRIOR TO CONSTRUCTION BY CALLING 1-800-227-2600.

Office of the State Fire Marshal

NOTES FOR THRUST BLOCK RESTRAINTS

PLACE THE FOLLOWING NOTES, VERBATIM, ON THE PLAN:



Pipe Size	CONDITION							
	I	II	III	IV	V	VI	VII	VIII
<6"	2.0	2.9	2.0	2@ 2.0	2@ 2.0	4@ 1.6	2.0	2@ 1.6
6"	4.3	4.0	4.3	2@ 4.3	2@ 4.3	4@ 3.3	4.3	2@ 3.3
8"	7.4	10.6	7.4	2@ 7.4	2@ 7.4	4@ 5.7	7.4	2@ 5.7
10"	12.1	17.1	12.1	2@ 12.1	2@ 12.1	4@ 9.3	12.1	2@ 9.3
12"	17.2	24.1	17.2	2@ 17.2	2@ 17.2	4@ 13.2	17.2	2@ 13.2

- NOTES**
- Thrust block areas based on 225 PSI and 2,000 PSF soil pressure with 2 1/2 feet of cover minimum.
 - Thrust block bearing faces shall be placed against undisturbed soil, approved compacted backfill, or Class 100-E-100 slurry.
 - Thrust blocks shall be Class 560-C-3250 concrete, unless specified otherwise.
 - To facilitate future removal of thrust blocks and line extension use cardboard separators between blocks, if needed.
 - After installation, rods, nuts, bolts, washers, clamps, and other restraining devices shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion-retarding material.

FIRE PROTECTION NOTES

- ALL FIRE MAINS SHALL BE PRESSURE TESTED TO 200 PSI FOR 2 HOURS FOR THE FIRE INSPECTOR.
- ALL FIRE HYDRANTS AND FIRE SPRINKLER RISERS SHALL BE FLUSHED FOR THE FIRE INSPECTOR.
- ALL UNDERGROUND FIRE MAINS THAT CAN BE PRESSURIZED BY FIRE DEPARTMENT APPARATUS (DOWNSTREAM OF FDC'S) SHALL BE CPVC C900 CLASS 200 OR OTHER UL/FM APPROVED EQUIVALENT PIPE. ALL UNDERGROUND FIRE MAINS THAT CANNOT BE PRESSURIZED BY FIRE DEPARTMENT APPARATUS MAY BE CPVC C900 CLASS 150 OR OTHER APPROVED UL/FM APPROVED EQUIVALENT PIPE.
- DEPTH OF BURY TO THE TOP OF ALL FIRE MAINS: MINIMUM 36 INCHES IN DRIVEWAYS AND MINIMUM 30 INCHES IN LANDSCAPED AREAS.
- ALL THRUST BLOCK BEARING AREAS SHALL BE INSTALLED AND SIZED IN ACCORDANCE WITH THE AHJ'S REQUIREMENTS.
- THE FIRE MAIN PIPE UNDER THE BUILDING OR BUILDING FOUNDATION SHALL NOT CONTAIN MECHANICAL JOINTS. THEREFORE, A LISTED ONE-PIECE PIPE ASSEMBLY SHALL BE PROVIDED FROM UNDERGROUND OUTSIDE THE BUILDING FOUNDATION TO FIRE SPRINKLER RISER LOCATION ABOVE THE BUILDING FOUNDATION.
- THE FIRE SPRINKLER SERVICES SHALL TERMINATE 6 TO 24 INCHES ABOVE THE FINISHED FLOOR ELEVATION AT THE FIRE SPRINKLER RISER LOCATIONS IN THE FIRE CONTROL ROOMS. PROVIDE MINIMUM CLEARANCES OF 12 INCHES FROM THE FIRE SPRINKLER RISERS TO ANY ADJACENT WALLS.
- PROVIDE SLEEVES FOR THE FIRE SPRINKLER MAINS AT CONCRETE SLAB PENETRATIONS WITH A MINIMUM CLEARANCE OF 2 INCHES AROUND THE PIPES.
- ALL CONTROL VALVES ON THE FIRE UNDERGROUND SYSTEM (INCLUDING THE SITE PVS AND THE BACK-FLOW PREVENTERS) SHALL HAVE TAMPER SWITCHES THAT ARE MONITORED BY AN APPROVED FIRE ALARM CENTRAL STATION. PROVIDE THE ENTIRE NECESSARY UNDERGROUND CONDUIT, AND COORDINATE THE INSTALLATION WITH THE LOCATIONS OF THE FIRE ALARM PANELS AND THE BUILDING CONSTRUCTION PHASING SUCH THAT THE VALVES ARE MONITORED PRIOR TO OCCUPANCY.
- FIRE HYDRANT STREET VALVES SHALL BE AT LEAST 6 FEET FROM THE HYDRANTS.
- PROVIDE A MINIMUM 2'-FT. BY 2'-FT. FLAT CONCRETE SURFACE AROUND EACH FIRE HYDRANT LOCATED IN A LANDSCAPED AREA.
- FIRE HYDRANTS, FDC'S, AND PVS SHALL BE PLACED AT LEAST 2 FEET BACK OF CURBS.
- VERIFY AHJ REQUIRED PAINT COLOR FOR FIRE HYDRANTS AND PAINT TO THEIR SPECIFICATIONS.
- FOR EACH FIRE HYDRANT, A BLUE TWO-WAY REFLECTIVE MARKER SHALL BE PLACED ON THE STREET PAVEMENT 12 INCHES OFF OF STREET OR DRIVEWAY CENTERLINE ON THE HYDRANT SIDE IF REQUIRED BY AHJ.
- PERMANENT SIGNAGE USING MINIMUM 18-GAUGE METAL WITH RAISED CONTRASTING LETTERS AND NUMBERS NOT LESS THAN 1 INCH IN SIZE SHALL BE PROVIDED FOR THE PVS AND FDC'S TO INDICATE WHAT BUILDINGS ARE CONTROLLED. THE FDC SIGNS SHALL ALSO READ: AUTOMATIC SPRINKLERS OR STANDPIPES OR TEST CONNECTION OR A COMBINATION THEREOF AS APPLICABLE. VERIFY SPECIFICATIONS WITH AHJ AND INSTALL ACCORDINGLY.
- MARKING OF FIRE APPARATUS ACCESS ROADS: ALL REQUIRED FIRE LANES MUST BE IDENTIFIED WITH PAINTED AND STENCILED CURBS AND FIRE LANE SIGNS IN ACCORDANCE WITH THE CALIFORNIA VEHICLE CODE. ALL CURBS SHALL BE PAINTED RED WITH THE WORDS "NO PARKING FIRE LANE" STENCILED IN WHITE EVERY 50 FEET ON THE FACE OF THE CURBS USING 4-INCH LETTERS.
- ALL-WEATHER EMERGENCY ACCESS ROADS AND FIRE HYDRANTS (TESTED AND FLUSHED) SHALL BE PROVIDED BEFORE COMBUSTIBLE MATERIAL OR VERTICAL CONSTRUCTION IS ALLOWED ON SITE.
- R. THE UNDERGROUND CONTRACTOR SHALL SUBMIT TO THE FIRE INSPECTOR A RECORD-OF-COMPLETION FORM IN ACCORDANCE WITH NFPA 24, AFTER THE ENTIRE FIRE UNDERGROUND SYSTEM HAS BEEN INSPECTED AND TESTED TO MEET THE MINIMUM SITE REQUIREMENTS.

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DATE PLOTTED: Jun 13, 2023 - 10:40am
PLOT BY: gpenec

Office of the State Fire Marshal
NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS & SPRINKLERS
PLACE THE FOLLOWING NOTES, VERBATIM, ON THE PLAN:

- Prior to installation, all plans and specifications shall be approved by the Office of the State Fire Marshal.
- Inspections are required: 1) prior to pouring thrust blocks, 2) for hydrostatic testing, and 3) for flush. Schedule all inspections 72 hours in advance. Call the local Deputy State Fire Marshal for inspection scheduling.
- Installation, inspection, and testing shall conform to the 2016 edition of NFPA 13 2016, the 2016 edition of NFPA 24 with California Amendments.
- Private fire hydrants shall be of an approved type with a minimum of one 2 1/2" and one 4" outlet. The 4" outlet shall face the fire department access road. All outlets shall be provided with National Standard Threads (NST).
- Fire hydrant supply piping shall be a minimum of 6" in diameter. The lowest operating nut shall be a minimum of 18" above grade and the hydrant flange shall be a minimum of 2" above grade.
- Fire hydrants shall be a minimum of 40 feet from all structures. A keyed gate valve shall be provided for each hydrant in an accessible location within 20 feet of all hydrants. Valves shall not be located in parking stalls.
- All pipe shall be approved for use in fire service systems, complying with 2016 NFPA 24.
- All buried fittings shall be of an approved type with joints and pressure class ratings compatible with the pipe used.
- All ferrous pipe and fittings shall be protected with a loose 8-mil polyethylene tube. The ends of the tube and any splices made for "T"s or other piping components shall be sealed with 2" tape, approved for underground use. All bolted joints shall be cleaned and thoroughly coated with asphalt or other corrosion retarding material after assembly and prior to poly-tube installation.
- A 12" bed of clean fill sand shall be provided below and above the pipe (total 24").
- All bolts used for underground connections shall be stainless steel and tightness of bolted joints shall be verified by bolt torque or by the method described in the listing information or the manufacturer's installation instructions.
- A minimum of 30" of cover, from finish grade to the top of the pipe, shall be provided. When surface loads are expected, a minimum of 36" cover shall be provided.
- Thrust blocks, or other approved method of thrust restraint, shall be provided wherever pipe changes direction. (All tees, plugs, camps, bonds, reducers, valves, and hydrant branches shall be restrained against movement in accordance with 2016 NFPA 24.)
- The trench shall be excavated for thrust blocks and inspected prior to pour. All corrosion protection shall be in place. Thrust blocks shall be placed between undisturbed earth and the fitting to be restrained. Thrust block shall be capable of resisting the calculated thrust force. Thrust blocks shall be placed so that the joints are accessible for repair.
- A hydrostatic test (200 psi for two hours or 50 psi over maximum static pressure, whichever is greater) shall be witnessed by a Deputy State Fire Marshal. The trench shall be back-filled between the joints to prevent movement of the pipe.
- The system shall be thoroughly flushed before connection is made to overhead piping. Flow shall be through a minimum of a 4" hose or pipe unless otherwise approved by the Deputy State Fire Marshal. A Deputy State Fire Marshal shall witness the flush.
- Private hydrants, sprinkler control valves, detector check assemblies, post indicating valves and fire department connections shall be named OSHA red.
- All control valves shall be locked in the open position. Valves shall be monitored in accordance with 2016 NFPA 24 6.7.2.
- Hydrants shall be protected from mechanical damage. The means of protection shall not interfere with connection to or operation of hydrants.
- Subject to additional requirements not reflected in this list, per the 2019 CBC, 2019 CFC, and 2016 NFPA 24 with California Amendments.

AGENCY APPROVAL DSA# 03-122884



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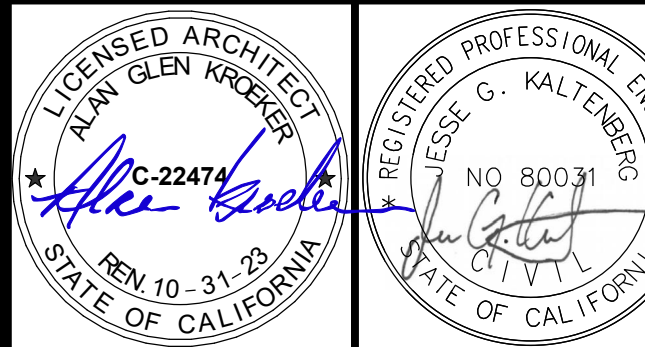
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San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

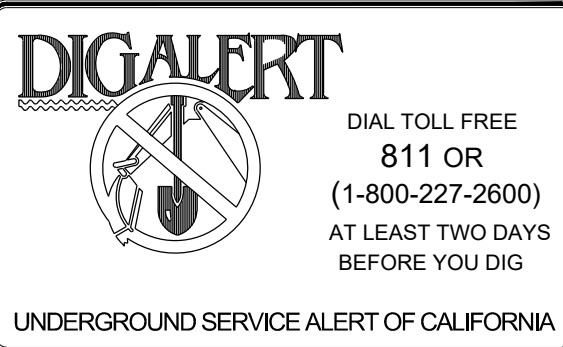
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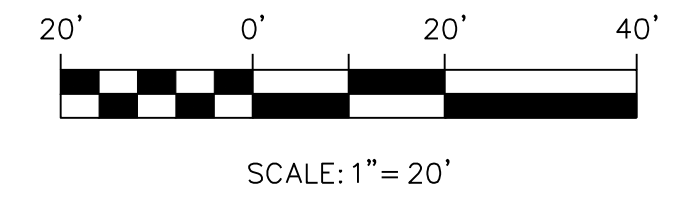
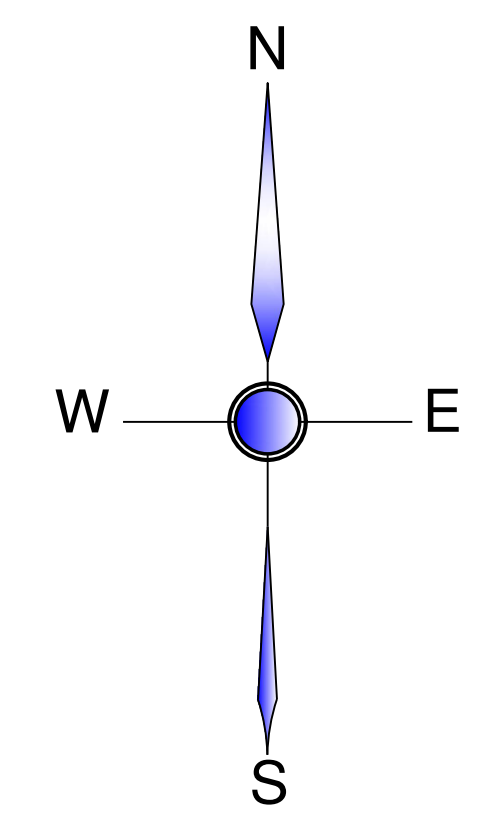
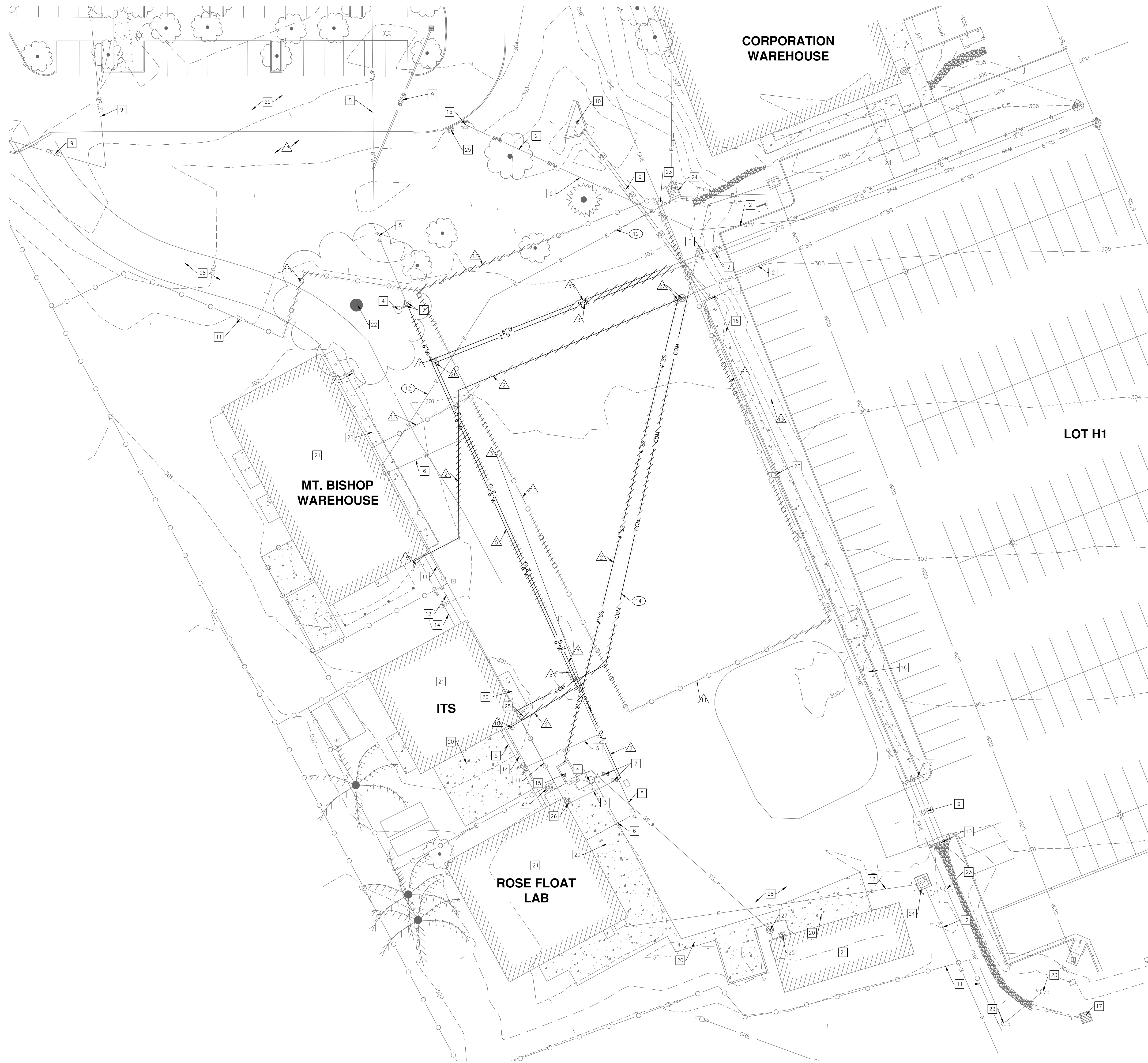
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SHEET NO.

C1

DATE: MARCH 31, 2023





DEMOLITION NOTES:

- | | |
|----------------------------|--|
| △ REMOVE EXISTING | 1. SEWER MANHOLE |
| ⊠ PROTECT IN PLACE | 2. SEWER LINE |
| ⊗ RELOCATE | 3. GAS LINE |
| ⊗ RELOCATE BY OTHERS | 4. FIRE HYDRANT |
| ⊗ CONTRACTOR TO COORDINATE | 5. WATER LINE |
| | 6. WATER LATERAL |
| | 7. WATER VALVE |
| | 8. ELECTRICAL LINE |
| | 9. STORM DRAIN LINE |
| | 10. HEADWALL STRUCTURE |
| | 11. FENCE |
| | 12. ELECTRICAL SERVICE |
| | 13. INTERFERING PORTIONS OF LANDSCAPING & IRRIGATION |
| | 14. TELECOMM LINE |
| | 15. LEFT STATION |
| | 16. DRAINAGE CHANNEL |
| | 17. CATCH BASIN |
| | 18. SUMP PUMP |
| | 19. MISCELLANEOUS CONCRETE |
| | 20. SIDEWALK |
| | 21. STRUCTURE |
| | 22. TREE |
| | 23. UTILITY POLE |
| | 24. TRANSFORMER |
| | 25. PULL BOX |
| | 26. GAS VALVE |
| | 27. CLEANOUT |
| | 28. ALL-WEATHER PAVING |
| | 29. AC PAVING |

LEGEND

- | | |
|-----|---------------------------------|
| ⊗ | EXISTING WATER VALVE |
| ⊠ | PROPOSED GATE VALVE |
| ⊗ | PROPOSED SANITARY SEWER MANHOLE |
| --- | EXISTING CONTOURS - MAJOR |
| --- | EXISTING CONTOURS - MINOR |
| --- | CONTOURS - MAJOR |
| --- | CONTOURS - MINOR |
| --- | GRADE BREAK |
| ○ | EXISTING CHAIN LINK FENCE |
| SD | EXISTING STORM DRAIN |
| W | EXISTING WATER LINE |
| --- | EXISTING CURB |
| W | WATER LINE |
| SS | SEWER LINE |
| SFM | SEWER FORCE MAIN LINE |
| G | GAS LINE |
| SD | STORM DRAIN |

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OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
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Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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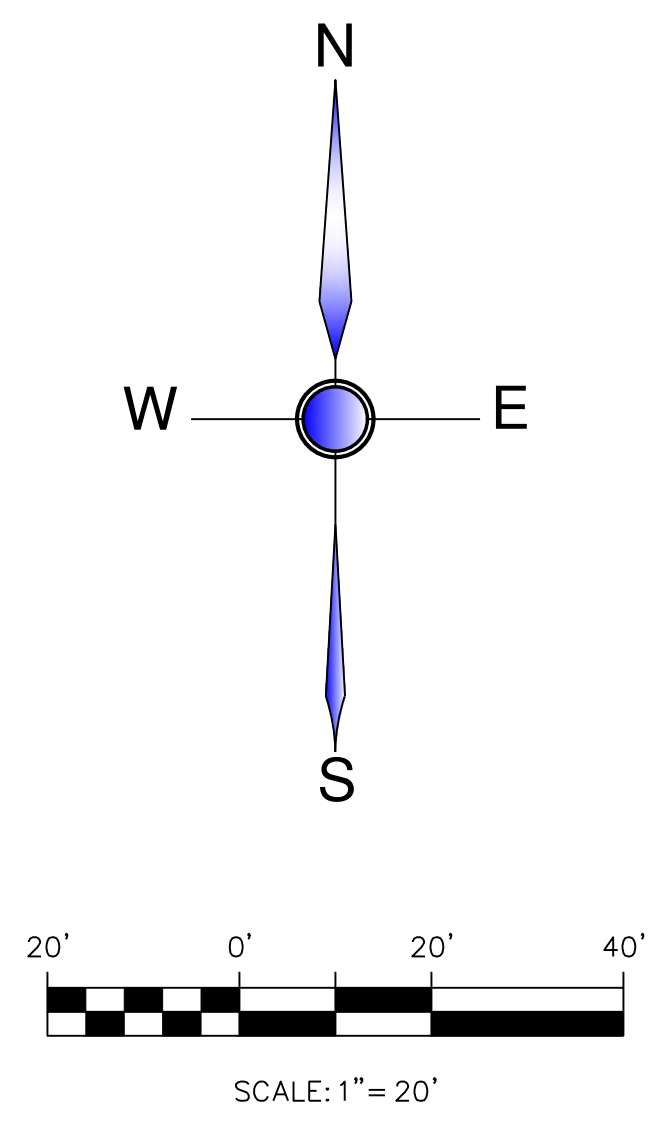
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C2

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DIGALERT
DIAL TOLL FREE
811 OR
(1-800-227-2600)
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

DPSI
DIVERSIFIED PROJECT SERVICES
INTERNATIONAL
San Luis Obispo - Bakerfield, CA Long Beach
(805) 250-2891 (661) 371-2800 (562) 424-6400



CORPORATION WAREHOUSE

LOT H1

302.45 FF
MT. BISHOP
WAREHOUSE

302.4 FF

301.45 FF
ITS

301.5 FF
ROSE FLOAT
LAB

300.6 FF

CONSTRUCTION NOTES:

- CONSTRUCT AC PAVEMENT PER DETAIL 4, SHEET C6.
- INSTALL SIDEWALK WITHOUT CURB AND GUTTER PER CAL POLY STANDARD DETAIL 410, SHEET C7.
- MOODY CLASS II AGGREGATE BASE DEPTH TO 18". INSTALL THICKENED EDGES PER DETAIL 6 ON SHEET C6.
- INSTALL STAIRS PER DETAIL 2, SHEET C6.
- INSTALL PERVIOUS PAVERS PER DETAIL 1, SHEET C6.
- MATCH EXISTING SURFACE ELEVATION. ALL-WEATHER ACCESS ROAD AREAS TO BE REPAIRED WITH CLASS II AB TO A DEPTH OF 18", AS NECESSARY.
- PEDESTRIAN BRIDGE. SEE ARCHITECTURAL PLANS.
- INSTALL 0" PCC CURB PER CAL POLY STANDARD DETAIL 4020, SHEET C6.
- INSTALL CHAIN LINK FENCE, JOIN AND MATCH EXISTING.
- INSTALL CALTRANS AC DIKE TYPE C PER CALTRANS DETAIL AB7B, SHEET C7.
- INSTALL WHEEL STOP PER CAL POLY STANDARD DETAIL 2260, SHEET C7.
- CONSTRUCT STANDARD OFF-STREET ACCESSIBLE PARKING PER CALTRANS STANDARD PLAN A90A. SEE SHEET C8.
- INSTALL ADA ACCESSIBLE PARKING SIGNS PER CALTRANS STANDARD PLAN A90A. SEE SHEET C8.
- STRIP ACCESSIBLE AISLES PER CALTRANS STANDARD PLAN A90A. SEE SHEET C8.
- INTERNATIONAL SYMBOL OF ACCESSIBILITY STALL EMBLEM PER CALTRANS STANDARD PLAN A90A. SEE SHEET A90A. SEE SHEET C8.
- PAINT THE WORDS NO PARKING ON SURFACE OF ACCESS AISLE PER CALTRANS STANDARD PLAN A90A, SHEET C8.
- INSTALL DETECTABLE WARNING SURFACE PER CALTRANS STANDARD AB8A, SHEET C8.
- DOWEL FLATWORK INTO BUILDING FOUNDATION AT BUILDING ENTRANCE PER DETAIL 5, SHEET C6.
- TRASH ENCLOSURE PER ARCHITECTURAL PLANS.
- CONSTRUCT ALL-WEATHER ROAD SECTION PER DETAIL 7, SHEET C6.
- INSTALL FIRE LANE SIGN R26FF(CA) "NO STOPPING - FIRE LANE". POST AND SIGN INSTALLATION PER COUNTY OF SAN LUIS OBISPO STANDARD M-4. SEE SHEET C8.
- INSTALL FIRE LANE STRIPING PER DETAIL 8, SHEET C7.
- EXISTING ALL-WEATHER FIRE ROAD TO REMAIN.

LEGEND

- CONCRETE
- AC PAVING
- PERVIOUS PAVERS
- AGGREGATE BASE PAVING

ADA NOTES:

- MAXIMUM WALKWAY CROSS SLOPE = 2%
- MAXIMUM LONGITUDINAL SLOPE ON WALKWAYS = 5%
- MINIMUM CLEAR WALKWAY WIDTH = 4'
- MINIMUM CLEAR SPACE ON STRIKE SIDE OF DOORS
- MAXIMUM RAMP SLOPE = 1:12

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ARCHITECT STAMP <i>[Signature]</i> ALICE BROWN C-22474 STATE OF CALIFORNIA	CONSULTANT STAMP <i>[Signature]</i> LESLIE G. KALTENBERG NO 80033 STATE OF CALIFORNIA
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NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

GRADING PLAN

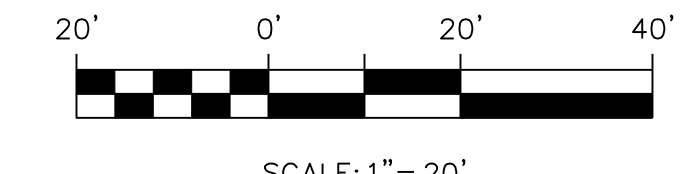
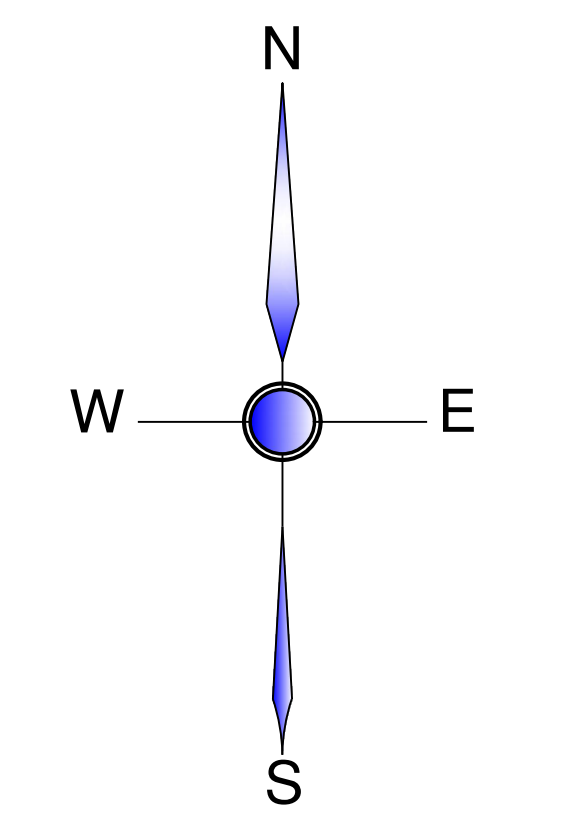
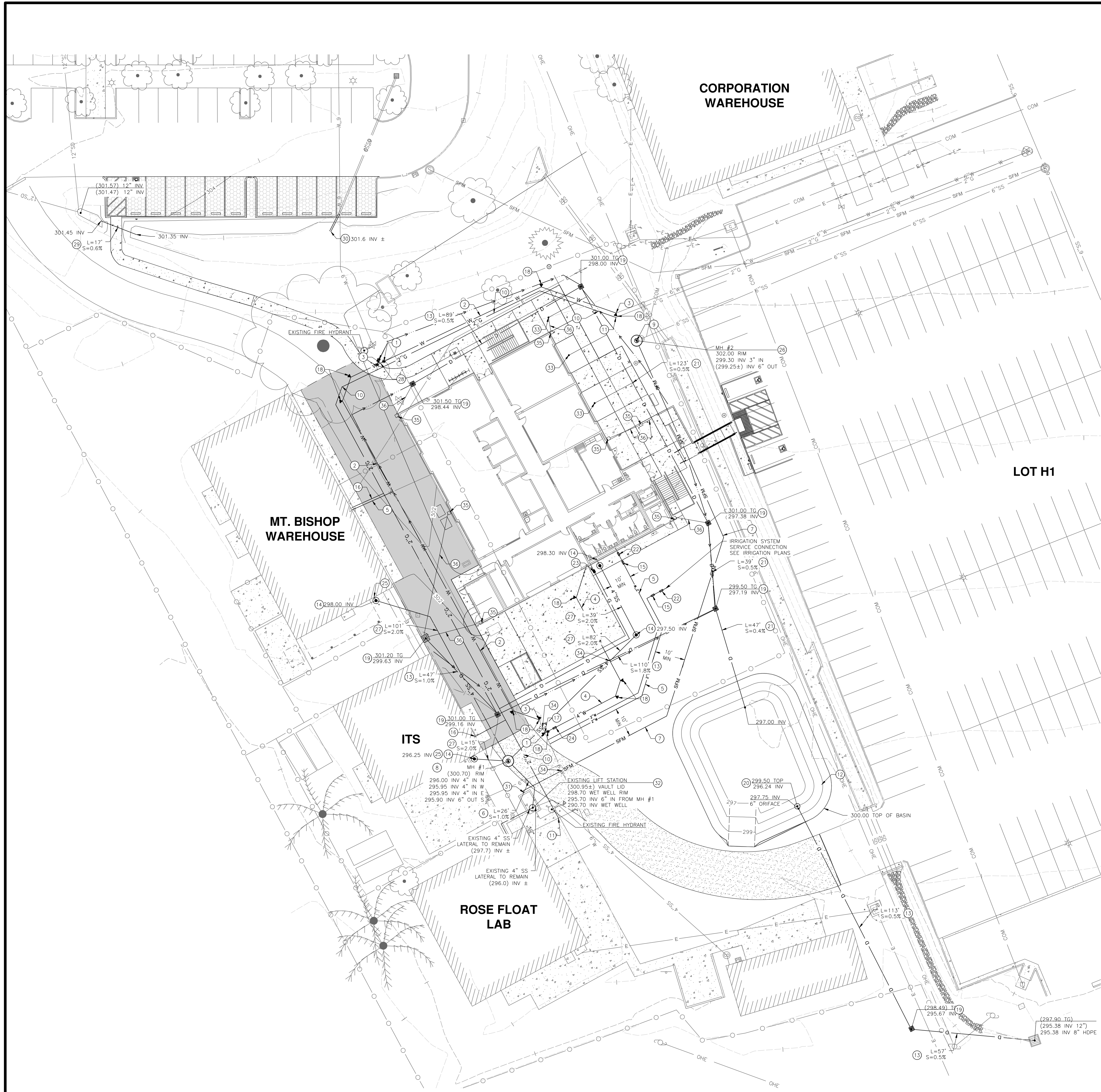
DRAWN BY: JOB NUMBER: 211031

SHEET NO. **C3**

DATE: MARCH 31, 2023

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SCALE: 1" = 20'

CONSTRUCTION NOTES:

1. INSTALL GATE VALVE PER CAL POLY STANDARD DETAIL 6340, SHEET C7.
2. INSTALL 6" PVC C900 D.R. 18 WATERLINE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C6.
3. LOCATE AND JOIN EXISTING WATER LINE PER CAL POLY STANDARD DETAIL 6330, SHEET C6.
4. INSTALL 4" PVC C900 D.R. 18 FIRE WATER LINE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
5. INSTALL WATER SERVICE PER CAL POLY STANDARD DETAIL 6220, SHEET C6, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
6. INSTALL 6" SDR-35 PVC SEWER LINE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
7. INSTALL 3" SCHEDULE 80 PVC SEWER FORCE MAIN, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
8. INSTALL 48" SEWER MANHOLE PER CAL POLY STANDARD DETAIL 6610, SHEET C6.
9. LOCATE AND JOIN EXISTING SEWER, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
10. INSTALL 2" POLYETHYLENE GAS LINE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
11. LOCATE AND JOIN EXISTING 2" GAS LINE.
12. CONSTRUCT 10,001 CF, 3.0' DEEP BASIN PER DETAIL 3, SHEET C6.
13. INSTALL 8" SDR-35 PVC STORM DRAIN, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
14. INSTALL SEWER CLEANOUT PER CAL POLY STANDARD DETAIL 6710, SHEET C7.
15. INSTALL WILKINS 375 REDUCED PRESSURE BACKFLOW PREVENTER PER CAL POLY STANDARD DETAIL 6550, SHEET C7.
16. LOCATE GAS SERVICE AND JOIN NEW GAS MAIN.
17. INSTALL 6"x6"x4" DUCTILE IRON TEE AND THRUST BLOCK PER COUNTY OF SAN LUIS OBISPO STANDARD PLAN W-1, SHEET C6. TEE SHALL BE M.J. X M.J. X FL. TYPE.
18. INSTALL 45 DEGREE DUCTILE IRON ELBOW AND THRUST BLOCK PER COUNTY OF SAN LUIS OBISPO STANDARD PLAN W-1, SHEET C6. ELBOW SHALL BE M.J. X M.J. TYPE.
19. INSTALL 18"x18" PRECAST CONCRETE CATCH BASIN BY MID-STATE CONCRETE PRODUCTS OF APPROVED EQUAL. INSTALLATION SHALL BE PER SQUARE CATCH BASINS, SHEET C6.
20. INSTALL 36" GMP TYPE INLET PER CALTRANS PLAN D75A, SHEET C7 AND PER DETAIL 3, SHEET C6. INSTALL 6" ORIFACE PER PLAN.
21. INSTALL 12" HDPE DUAL WALL STORM DRAIN PIPE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
22. INSTALL WATER METER PER CAL POLY STANDARD DETAIL 6250, SHEET C7.
23. INSTALL GAS METER.
24. INSTALL WILKINS 350 DOUBLE DETECTOR CHECK ASSEMBLY WITH FIRE DEPARTMENT CONNECTION PER CAL POLY STANDARD DETAIL 6420, SHEET C7.
25. JOIN EXISTING BUILDING WASTE LINE.
26. INSTALL 48" MODIFIED SEWER MANHOLE PER CAL POLY STANDARD DETAIL 6610, SHEET C6. OMIT ECCENTRIC RING. INSTALL FLAT TOP LID WITH ECCENTRIC MANHOLE LID AND COVER.
27. INSTALL 4" SDR-35 PVC SEWER LINE, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7.
28. INSTALL 6"x6"x6" DUCTILE IRON TEE AND THRUST BLOCK PER COUNTY OF SAN LUIS OBISPO STANDARD PLAN W-1, SHEET C6. TEE SHALL BE FL. X FL. X FL. TYPE.
29. INSTALL 18" HDPE DUAL-WALL CULVERT.
30. EXTEND EXISTING STORM DRAIN PIPES BEYOND THE LIMIT OF NEW WORK. MAINTAIN THE ORIGINAL INTENT OF DRAINAGE.
31. CONNECT NEW 3" FORCE MAIN TO EXISTING PUMP MANIFOLD. CONTRACTOR TO MODIFY EXISTING MANIFOLD AS NECESSARY. CONTRACTOR PROPOSED MODIFICATION TO BE APPROVED BY CAL POLY REPRESENTATIVE.
32. REMOVE AND STORE ALL EXISTING PUMP AND ELECTRICAL EQUIPMENT. REMOVE EXISTING 72" DEPTH FIBERGLASS WET WELL. INSTALL 96" DEPTH FIBERGLASS WET WELL. CUT-IN BULKHEADS AND RECONNECT EXISTING AND PROPOSED GRAVITY SEWER LINES. REINSTALL PUMPS, FLOATS AND ELECTRICAL SYSTEM COMPONENTS PER PUMP STATION REPORT. CONNECT PUMP MANIFOLD AND NEW FORCE MAIN.
33. INSTALL 4" SDR-35 PVC LANDSCAPE DRAIN AND RISER WITH CAST IRON DOME GRATE BY NYLOPLAST OR APPROVED EQUAL. SET INLET GRATE 3" LOWER THAN ADJACENT SIDEWALK GRADE. CONNECT TO STORM DRAIN SYSTEM AT 2% SLOPE MINIMUM.
34. CONSTRUCT SEWER MAIN BELOW WATER MAIN PER CAL POLY STANDARD DETAIL 6140, SHEET C6.
35. INSTALL DOWNSPOUT CONNECTION TO STORM DRAIN SYSTEM PER ARCHITECTURAL PLANS.
36. INSTALL 4" SDR-35 PVC STORM DRAIN, TRENCH AND BACKFILL PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL U-4, SHEET C7. CONNECT TO STORM DRAIN SYSTEM AT 2% SLOPE MINIMUM.

LEGEND

- WV EXISTING WATER VALVE
- PROPOSED GATE VALVE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING CONTOURS - MAJOR
- EXISTING CONTOURS - MINOR
- CONTOURS - MAJOR
- CONTOURS - MINOR
- GRADE BREAK
- EXISTING CHAIN LINK FENCE
- EXISTING STORM DRAIN
- EXISTING WATER LINE
- EXISTING CURB
- W WATER LINE
- SS SEWER LINE
- SFM SEWER FORCE MAIN LINE
- G GAS LINE
- SD STORM DRAIN

NOTE TO CONTRACTOR:

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2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES THAT MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. REPAIR OF ANY DAMAGE TO EXISTING UTILITIES WILL BE SOLELY AT THE CONTRACTOR'S EXPENSE.

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
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19.6

560 HIGUERA STREET, SUITE C
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LANDSCAPE ARCHITECT
KTUA
540 E. BETTERAVIA ROAD, SUITE D 122
SANTA MARIA, CA 93454
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STRUCTURAL ENGINEER
195X STRUCTURAL DIVISION
1119 GARDEN STREET
SANTA BARBARA, CA 93101
TEL (805) 963-1210

M.E.P. ENGINEER
ALFATECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
TEL (626) 803-0005

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SAN LUIS OBISPO, CA 93401
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FIRE ALARM ENGINEER
DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR., SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324

ARCHITECT STAMP	CONSULTANT STAMP
<i>[Architect Stamp]</i>	<i>[Consultant Stamp]</i>

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SHEET TITLE

UTILITY PLAN

DRAWN BY: _____ JOB NUMBER: 211031

SHEET NO. **C4**

DATE: MARCH 31, 2023

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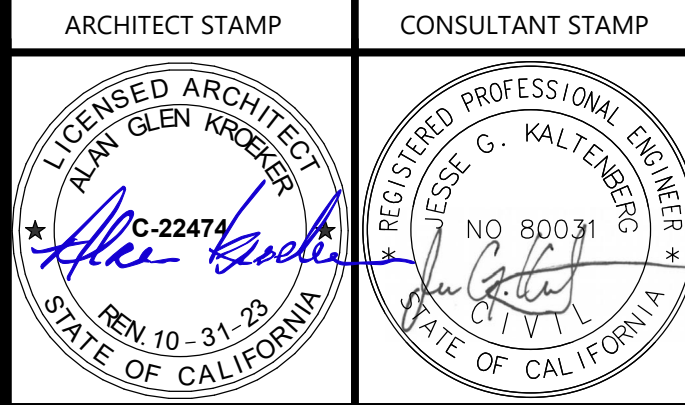
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SHEET TITLE

EROSION CONTROL PLAN

DRAWN BY: JOB NUMBER: 211031
SHEET NO.

C5
DATE: MARCH 31, 2023



LEGEND SCALE: 1" = 20'

- SF INSTALL SILT FENCING
- FR INSTALL FIBER ROLLS
- DIRECTION OF DRAINAGE
- HYDROSEEDING PER CASQA DETAIL EC-4

EROSION CONTROL NOTES

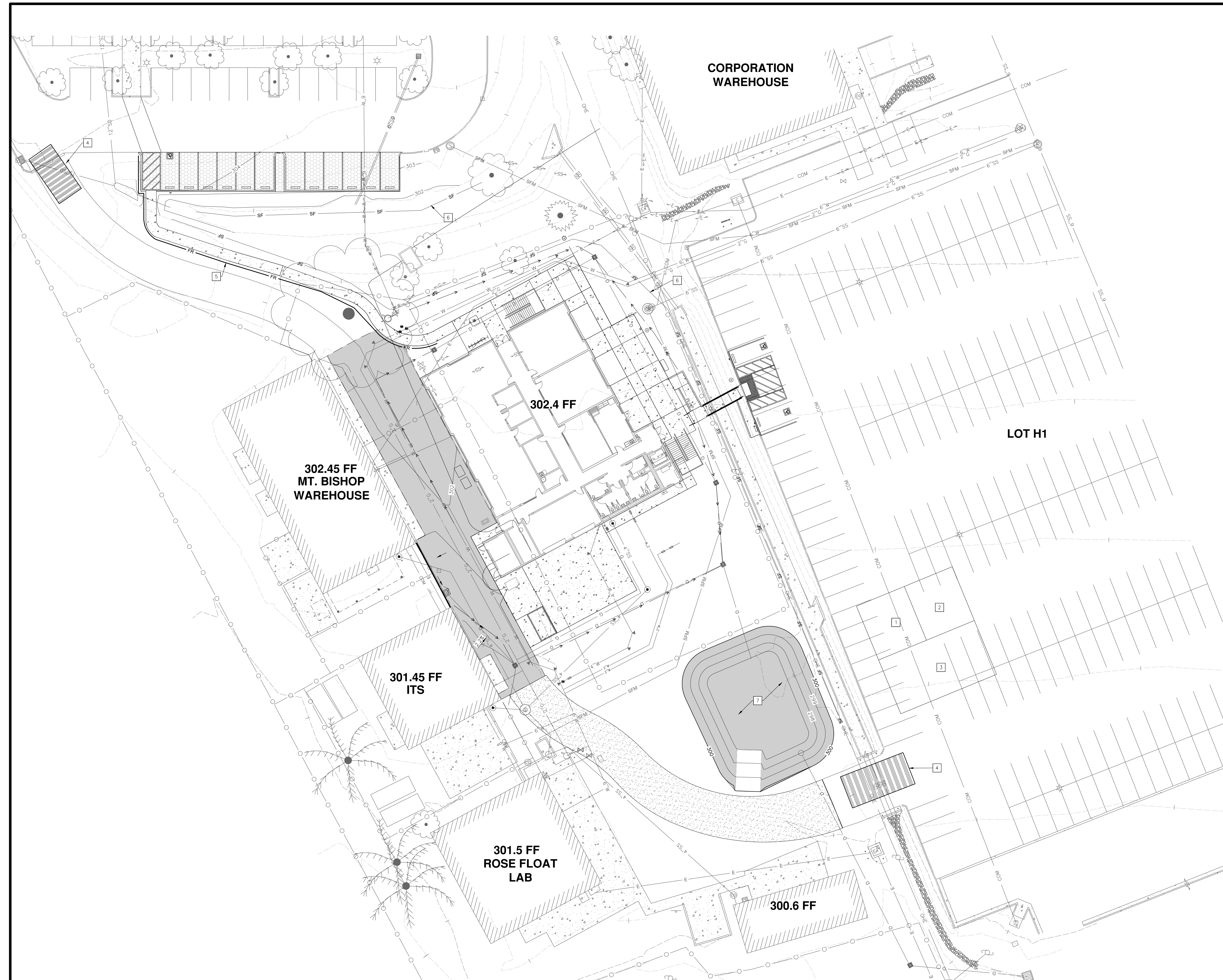
- INSTALL CONCRETE WASTE MANAGEMENT PER CASQA DETAIL WM-8, SHEET CB.
- TEMPORARY TRASH STORAGE.
- INSTALL MATERIAL DELIVERY AND STORAGE PER CASQA DETAIL WM-1, SEE THE SITE SWPPP.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CASQA DETAIL TC-1, SHEET CB.
- INSTALL FIBER ROLL. SEE DETAIL SE-5 SHEET CB.
- INSTALL SILT FENCING. SEE DETAIL SE-1 SHEET CB.
- INSTALL HYDROSEEDING PER CASQA DETAIL EC-4 SHEET CB.

EROSION CONTROL NOTES

- EROSION CONTROL MEASURES FOR WIND, WATER, MATERIAL STOCKPILES, AND TRACKING SHALL BE IMPLEMENTED ON ALL PROJECTS AT ALL TIMES AND SHALL INCLUDE SOURCE CONTROL, INCLUDING PROTECTION OF STOCKPILES, PROTECTION OF SLOPES, PROTECTION OF ALL DISTURBED AREAS, PROTECTION OF ACCESSES, AND PERIMETER CONTAINMENT MEASURES. EROSION CONTROL SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF GRADING AND SITE DISTURBANCE ACTIVITIES UNLESS THE PUBLIC WORKS DEPARTMENT DETERMINES TEMPORARY MEASURES TO BE UNNECESSARY BASED UPON LOCATION, SITE CHARACTERISTICS, OR TIME OF YEAR. THE INTENT OF EROSION CONTROL MEASURES SHALL BE TO KEEP ALL GENERATED SEDIMENTS FROM ENTERING A SMALL DRAINAGE WAY, WATERCOURSE, ATMOSPHERE, OR MIGRATE ONTO ADJACENT PROPERTIES OR ONTO THE PUBLIC RIGHT-OF-WAY.
- SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION AND ESPECIALLY PRIOR TO, DURING, AND AFTER RAIN EVENTS.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES AS SPECIFIED BY THE APPROVED PLAN UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED AS COMPLETE BY THE PUBLIC WORKS DEPARTMENT OR UNTIL RELEASED FROM THE CONDITIONS OF APPROVAL OF THEIR GENERAL PERMIT. EROSION CONTROL MEASURES/DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL MEASURES/DEVICES MAY BE REQUIRED DEPENDING ON THE ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. ADDITIONAL EROSION CONTROL MEASURES/DEVICES SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER OF WORK, COUNTY INSPECTOR, SAPP MONITOR, OR RWOCB INSPECTOR. GUIDELINES FOR DETERMINING APPROPRIATE EROSION CONTROL DEVICES SHALL BE INCLUDED IN THE PLANS WITH ADDITIONAL MEASURES/DEVICES NOTED FROM THE APPENDIX OF THE PUBLIC IMPROVEMENT STANDARDS.
- EROSION CONTROL DEVICES SHALL BE THE FIRST ORDER OF WORK AND SHALL BE IN PLACE AT ALL TIMES DURING CONSTRUCTION. ADDITIONAL MEASURES/DEVICES SHALL BE AVAILABLE DURING THE RAINY SEASON (BETWEEN OCTOBER 15 AND APRIL 15) OR ANYTIME WHEN THE RAIN PROBABILITY EXCEEDS 30%. THESE MEASURES/DEVICES SHALL BE AVAILABLE, INSTALLED, AND/OR APPLIED AFTER EACH AREA IS GRADED AND NO LATER THAN FIVE (5) WORKING DAYS AFTER COMPLETION OF EACH AREA.
- THE CONTRACTOR, DEVELOPER, AND ENGINEER OF WORK SHALL BE RESPONSIBLE TO REVIEW THE PROJECT SITE PRIOR TO OCTOBER 15 (RAINY SEASON) AND TO COORDINATE AN IMPLEMENTATION PLAN FOR NET WEATHER EROSION CONTROL DEVICES. A LOCALLY BASED STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCK PILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OR MAINTENANCE OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- IN THE EVENT OF A FAILURE, THE DEVELOPER AND/OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR CLEANUP AND ALL ASSOCIATED COSTS OR DAMAGE. IN THE EVENT THAT DAMAGE OCCURS WITHIN THE RIGHT-OF-WAY AND THE COUNTY IS REQUIRED TO PERFORM CLEANUP, THE OWNER SHALL BE RESPONSIBLE FOR COUNTY REIMBURSEMENT OF ALL ASSOCIATED COSTS OR DAMAGE.
- IN THE EVENT OF FAILURE AND/OR LACK OF PERFORMANCE BY THE OWNER AND/OR CONTRACTOR TO CORRECT EROSION CONTROL RELATED PROBLEMS THE PUBLIC WORKS DEPARTMENT MAY REVOKE ALL ACTIVE PERMITS AND RECOMMEND THAT COUNTY CODE ENFORCEMENT PROVIDE A WRITTEN NOTICE OR STOP WORK ORDER.
- PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 90% COVERAGE ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES PRIOR TO FINAL INSPECTION. PERMANENT EROSION CONTROL SHALL BE FULL ESTABLISHED PRIOR TO FINAL ACCEPTANCE. TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT MEASURES ARE ESTABLISHED.
- THE COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) MAY HAVE ADDITIONAL PROJECT SPECIFIC EROSION CONTROL REQUIREMENTS. THE CONTRACTOR, DEVELOPER, AND ENGINEER OF WORK SHALL BE RESPONSIBLE FOR MAINTAINING SELF REGULATION OF THESE REQUIREMENTS.
- ALL PROJECTS INVOLVING SITE DISTURBANCE OF ONE ACRE OR GREATER SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). THE DEVELOPER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO COMPLY WITH THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITY WITH THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB). THE DEVELOPER SHALL PROVIDE THE COUNTY WITH THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID #) OR WITH VERIFICATION THAT AN EXEMPTION HAS BEEN GRANTED BY RWQCB.

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FILE LOCATION: N:\211031\007_CE\Drawings\5-Sheets\2-Grade\CE211031-ECP001.dwg

PLOT BY: gpenz
DATE PLOTTED: Jun 13, 2023 - 10:40am

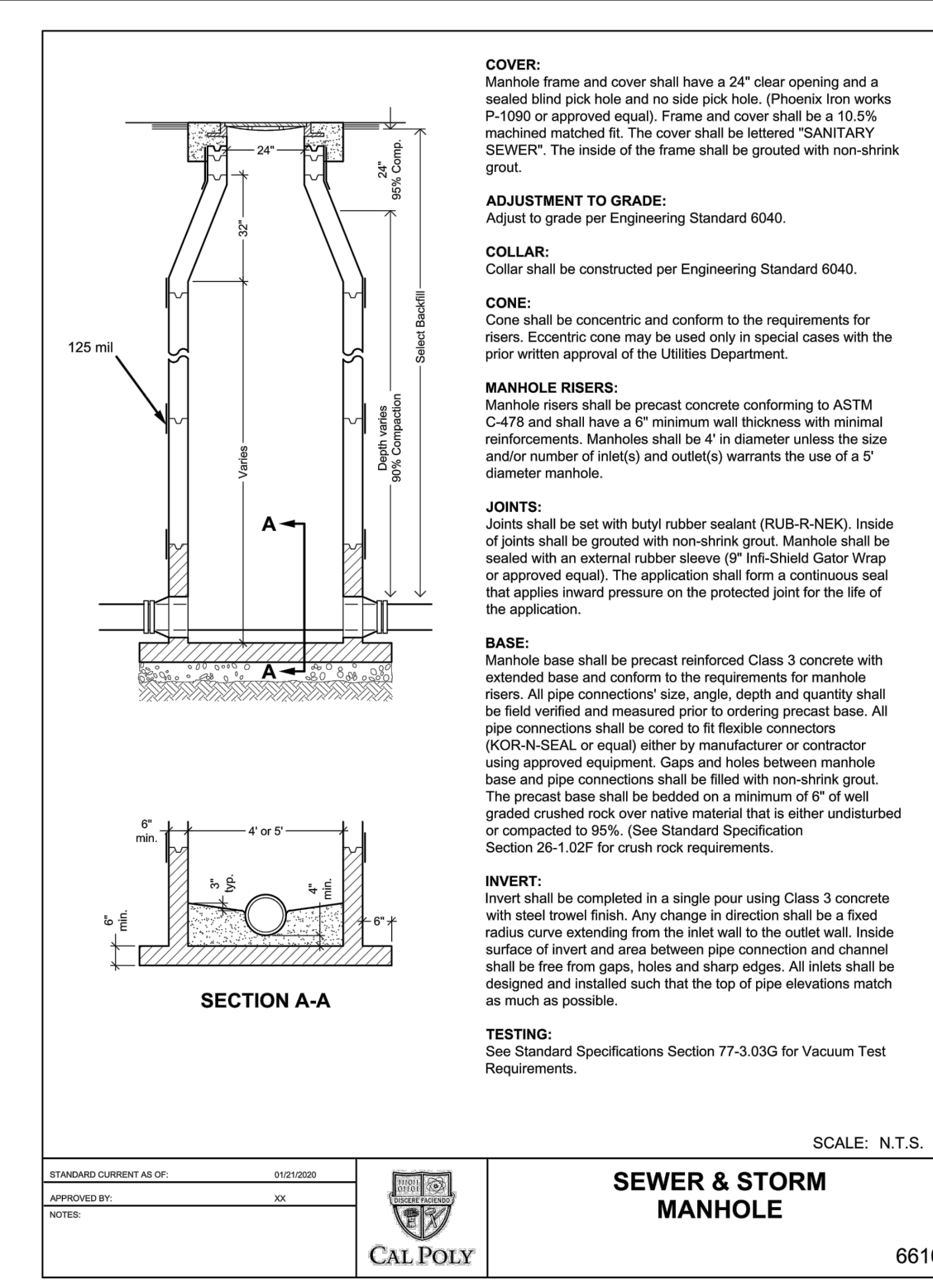
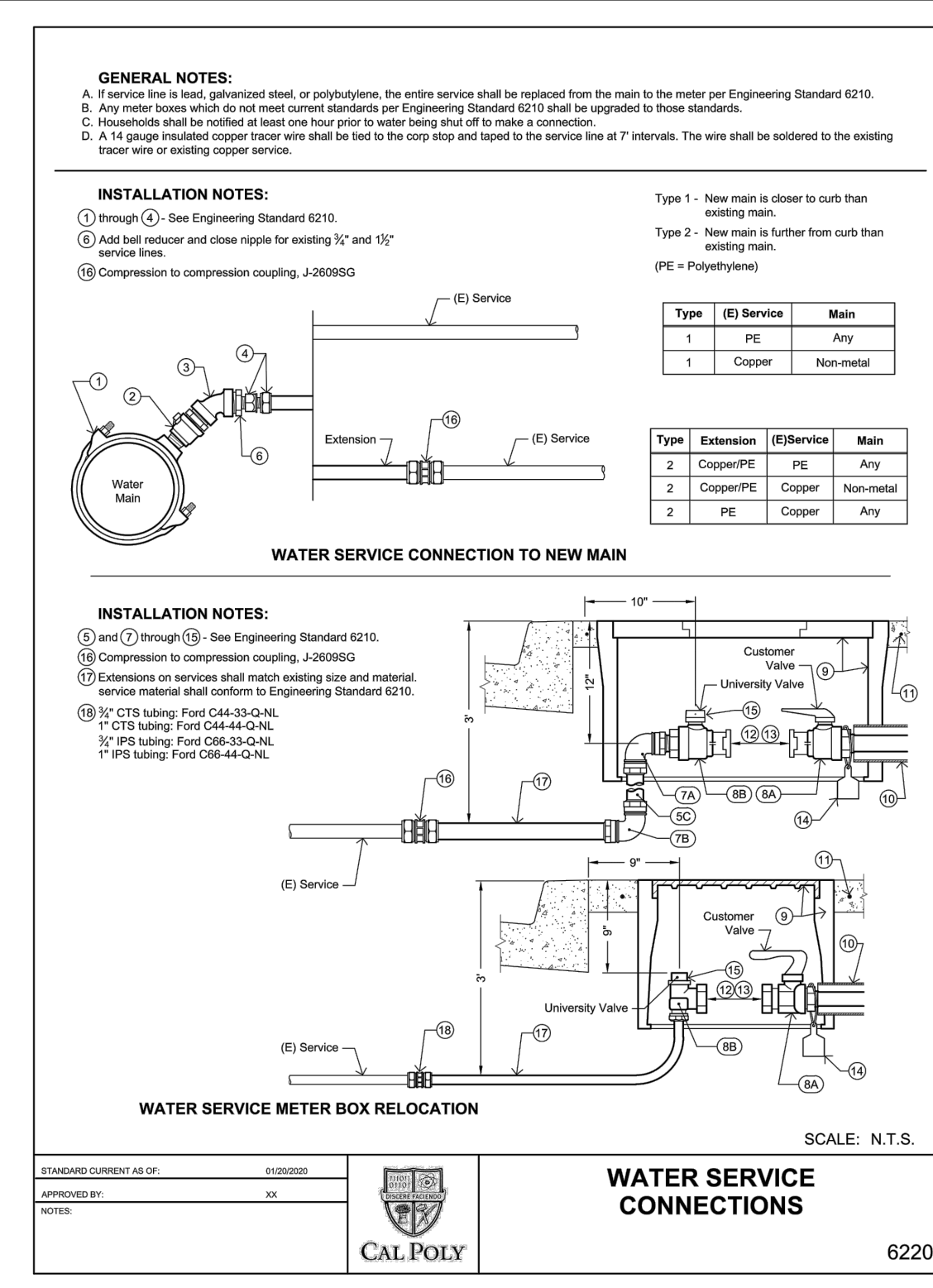
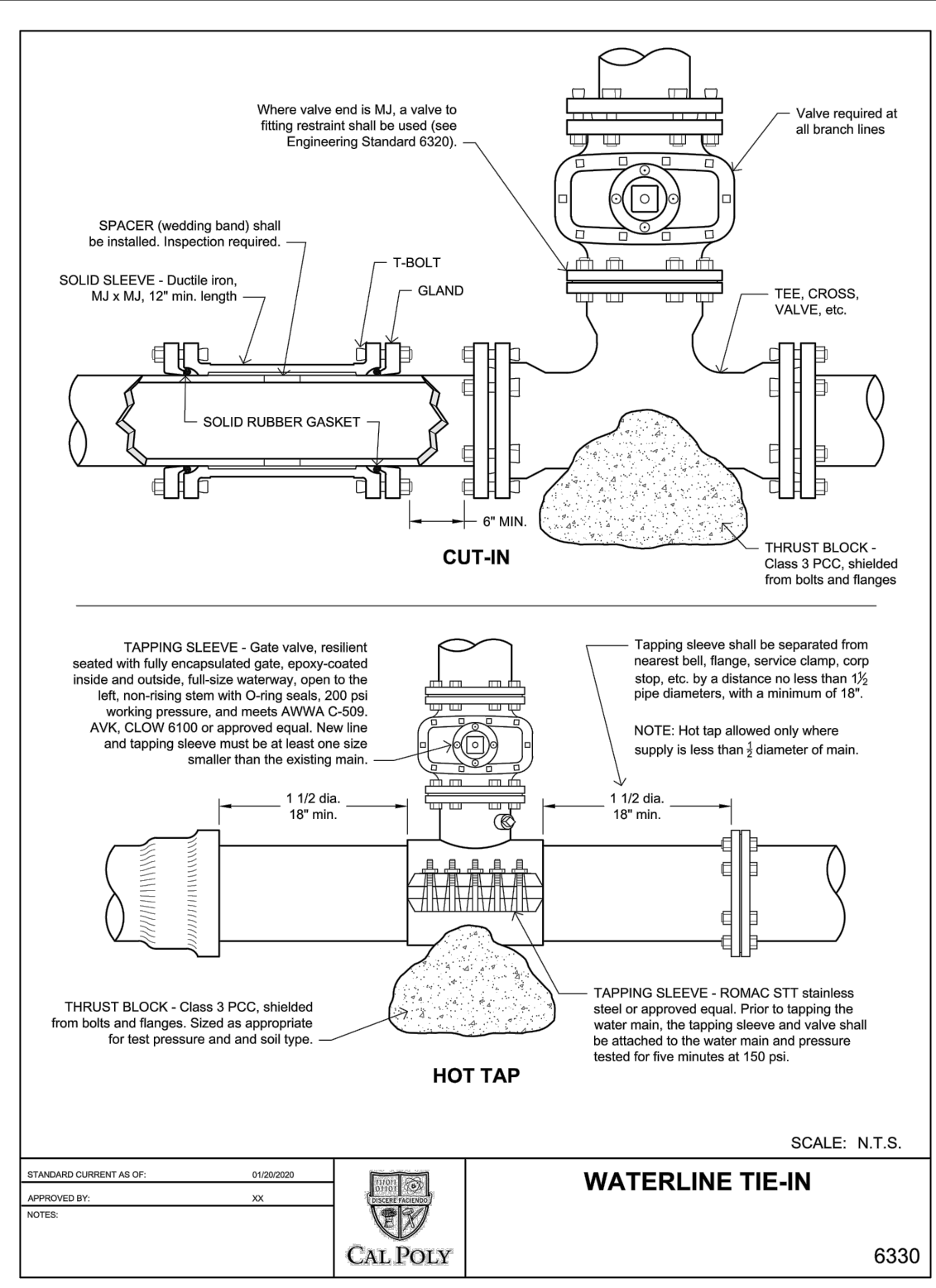
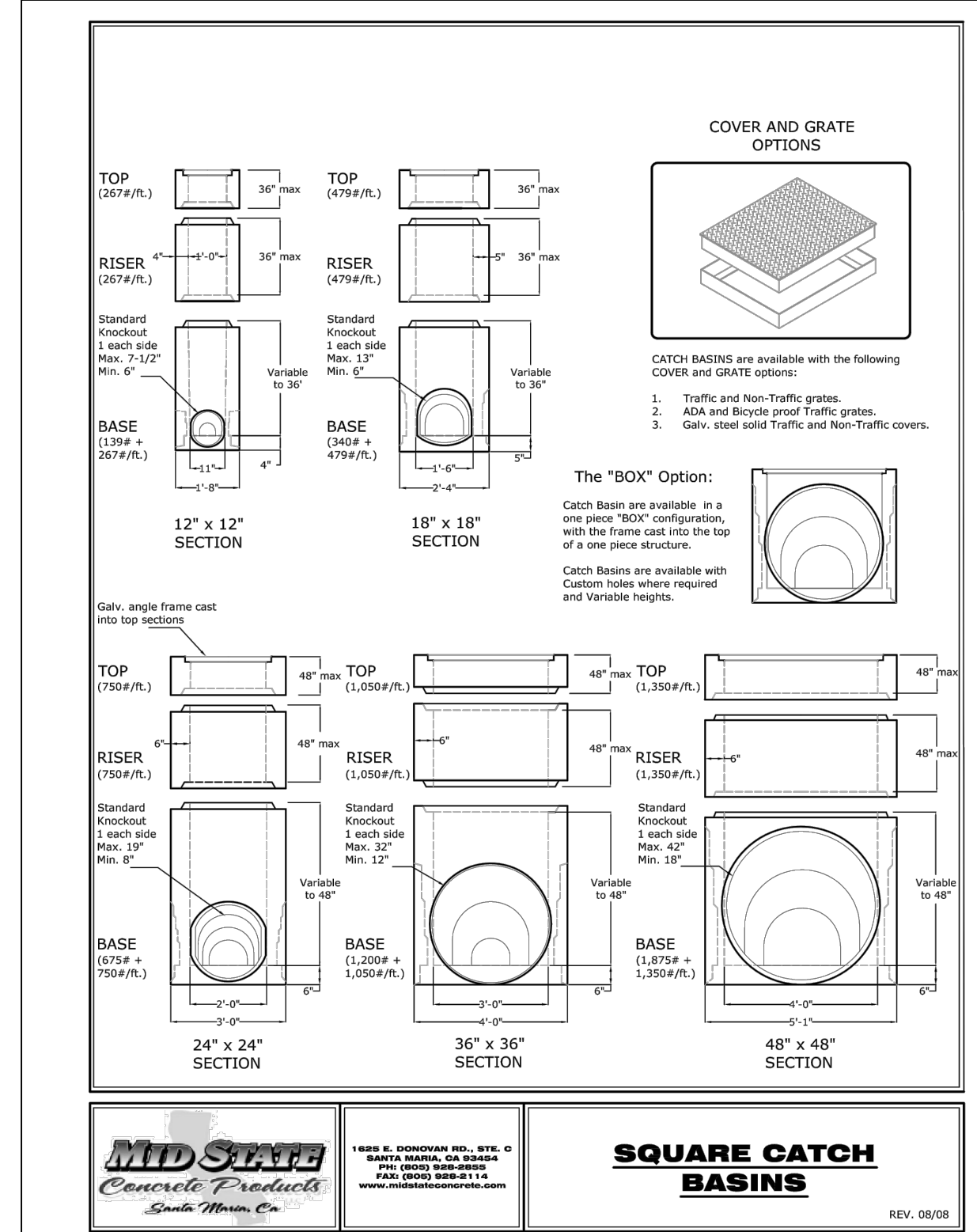


TABLE 1

Pipe Dia (in)	Pipe Class	Nom. ID (in)	Area (sq in)	THRUST (T) AT FITTING, lbs					
				TEES	90° BEND	45° BEND	180° BEND	180° BEND	180° BEND
4"	PVC Class 165 (DR 25)	4.38	15	1,254	4,862	2,431	2,770	6,281	
4"	PVC Class 235 (DR 18)	4.23	14	4,005	5,664	3,065	1,563	785	
4"	PVC Class 305 (DR 14)	4.07	13	4,019	5,532	3,535	1,862	905	
6"	PVC Class 165 (DR 25)	6.31	31	6,723	9,508	5,146	2,626	1,318	
6"	PVC Class 235 (DR 18)	6.09	29	8,362	11,740	6,354	3,238	1,627	
6"	PVC Class 305 (DR 14)	5.93	27	8,476	13,540	7,328	3,736	1,877	
8"	PVC Class 165 (DR 25)	8.20	54	11,677	16,372	8,861	4,517	2,269	
8"	PVC Class 235 (DR 18)	7.95	50	14,254	20,159	10,910	5,562	2,794	
8"	PVC Class 305 (DR 14)	7.69	46	14,442	23,207	12,827	6,471	3,234	
10"	PVC Class 165 (DR 25)	10.16	81	17,431	24,651	13,341	6,801	3,417	
10"	PVC Class 235 (DR 18)	9.79	75	21,454	30,340	16,420	8,371	4,206	
10"	PVC Class 305 (DR 14)	9.42	70	24,741	34,669	18,530	9,562	4,800	
12"	PVC Class 165 (DR 25)	12.08	115	24,641	34,848	18,860	9,615	4,831	
12"	PVC Class 235 (DR 18)	11.65	107	30,390	42,964	23,252	11,895	5,956	
12"	PVC Class 305 (DR 14)	11.2	99	34,874	49,462	26,738	13,546	6,856	

AWWA PVC C-90 PIPE

BASED ON P = 165 ± 50 ± 215 psi
BASED ON P = 225 ± 10 ± 285 psi
BASED ON P = 305 ± 50 ± 395 psi

TABLE 2

SOIL TYPE	HORIZONTAL BEARING STRENGTHS (lb/ft ²)	
	MINIMUM	MAXIMUM
MECK	1,000	2,000
SOFT CLAY	500	1,000
SAND	1,000	2,000
SAND & GRAVEL	1,000	2,000
SAND & GRAVEL CEMENTED WITH CLAY	2,000	4,000

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
WATERLINE THRUST BLOCK REQUIREMENTS

CSU The California State University
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CALIFORNIA STATE FIRE MARSHAL
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Approved by: 07/19/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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ARCHITECT STAMP **CONSULTANT STAMP**

REVISIONS

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

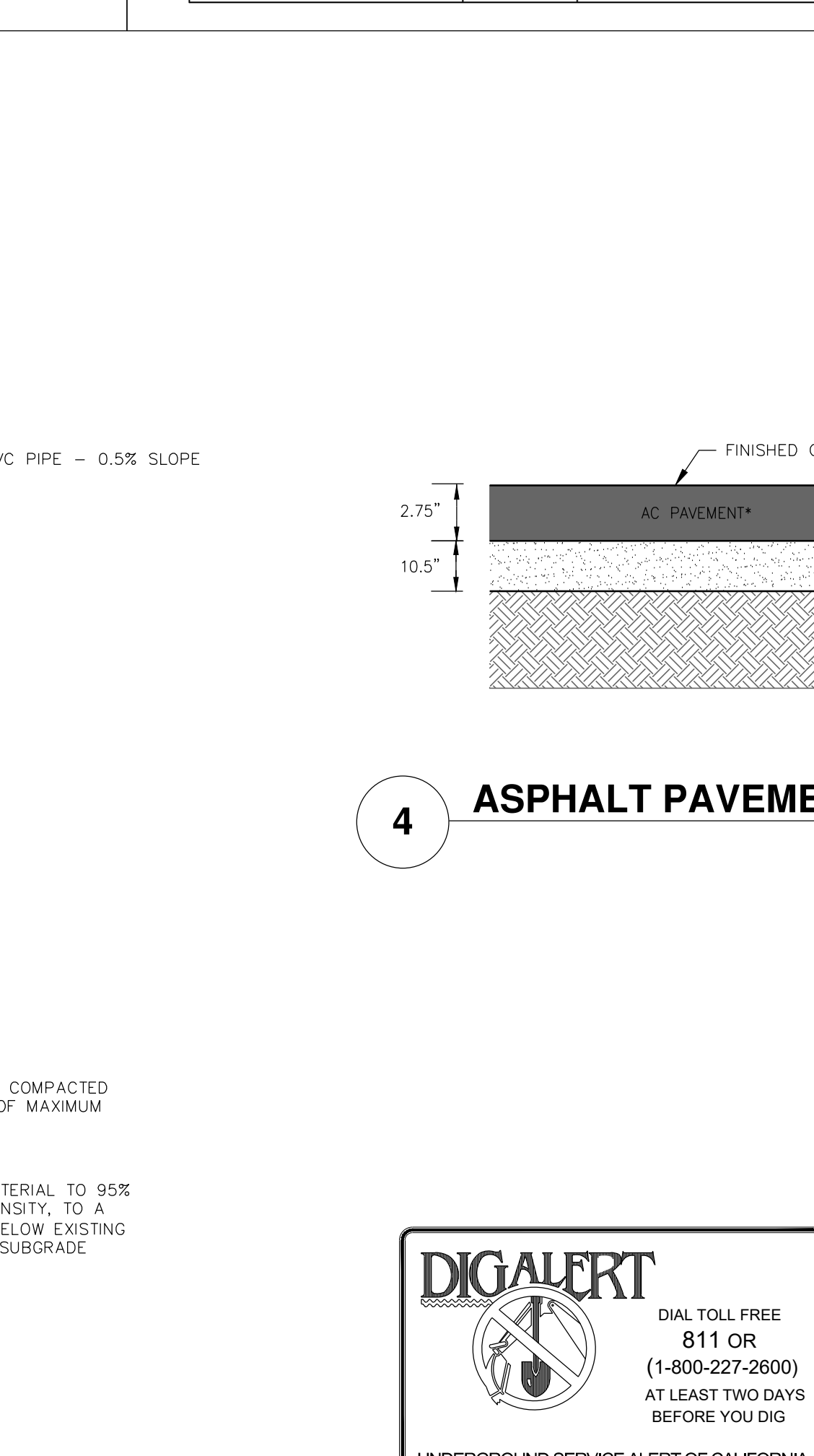
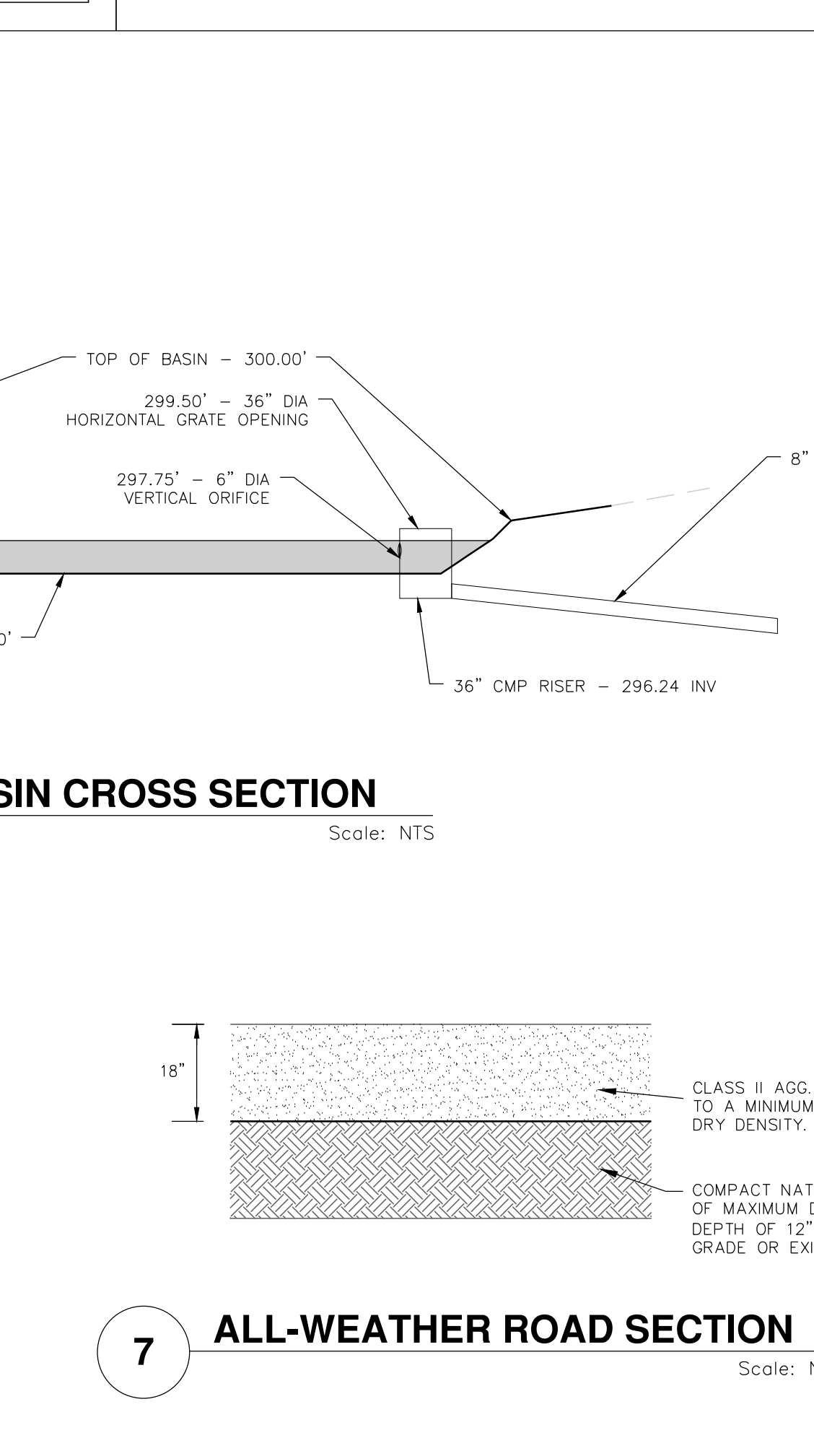
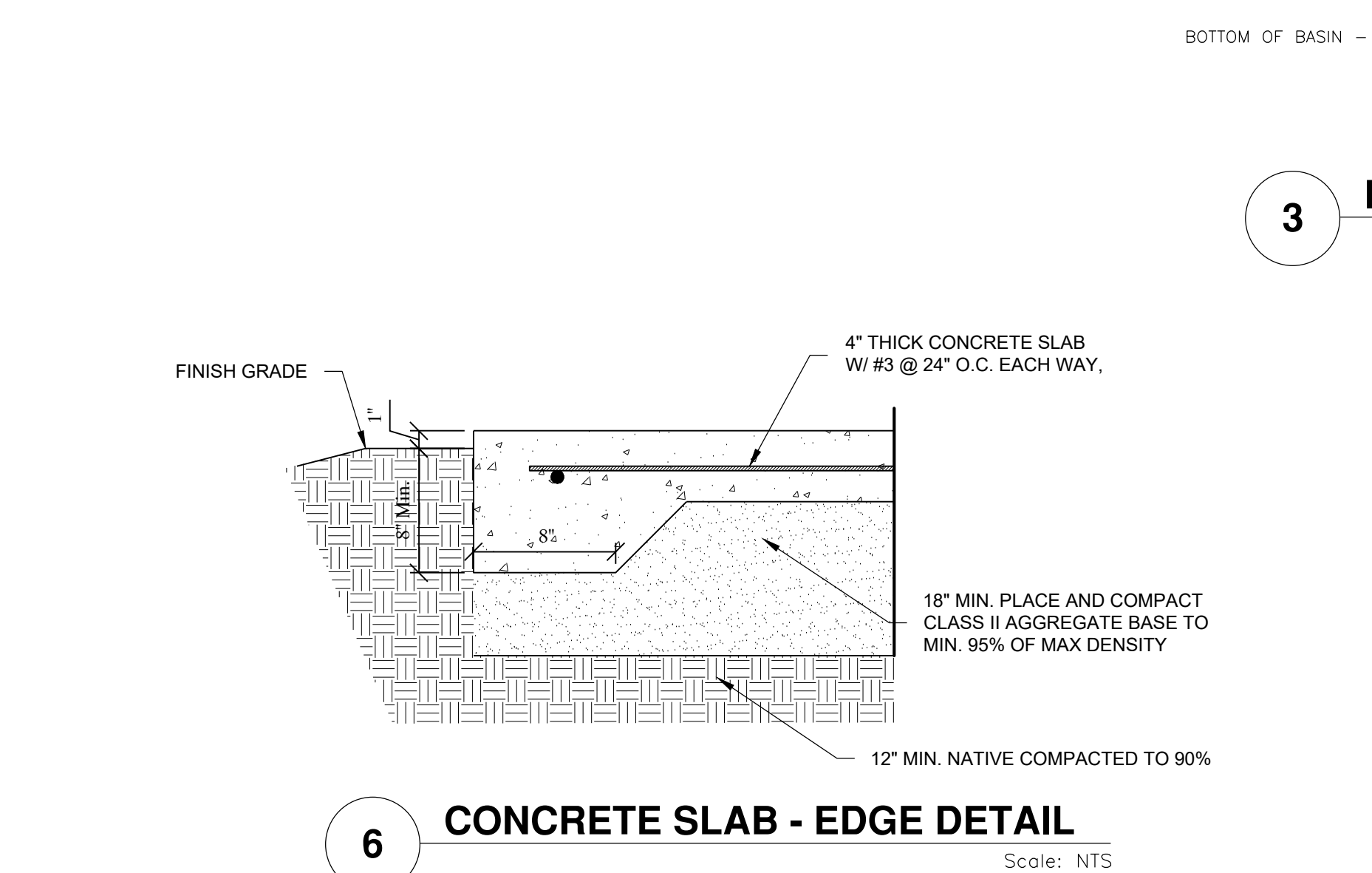
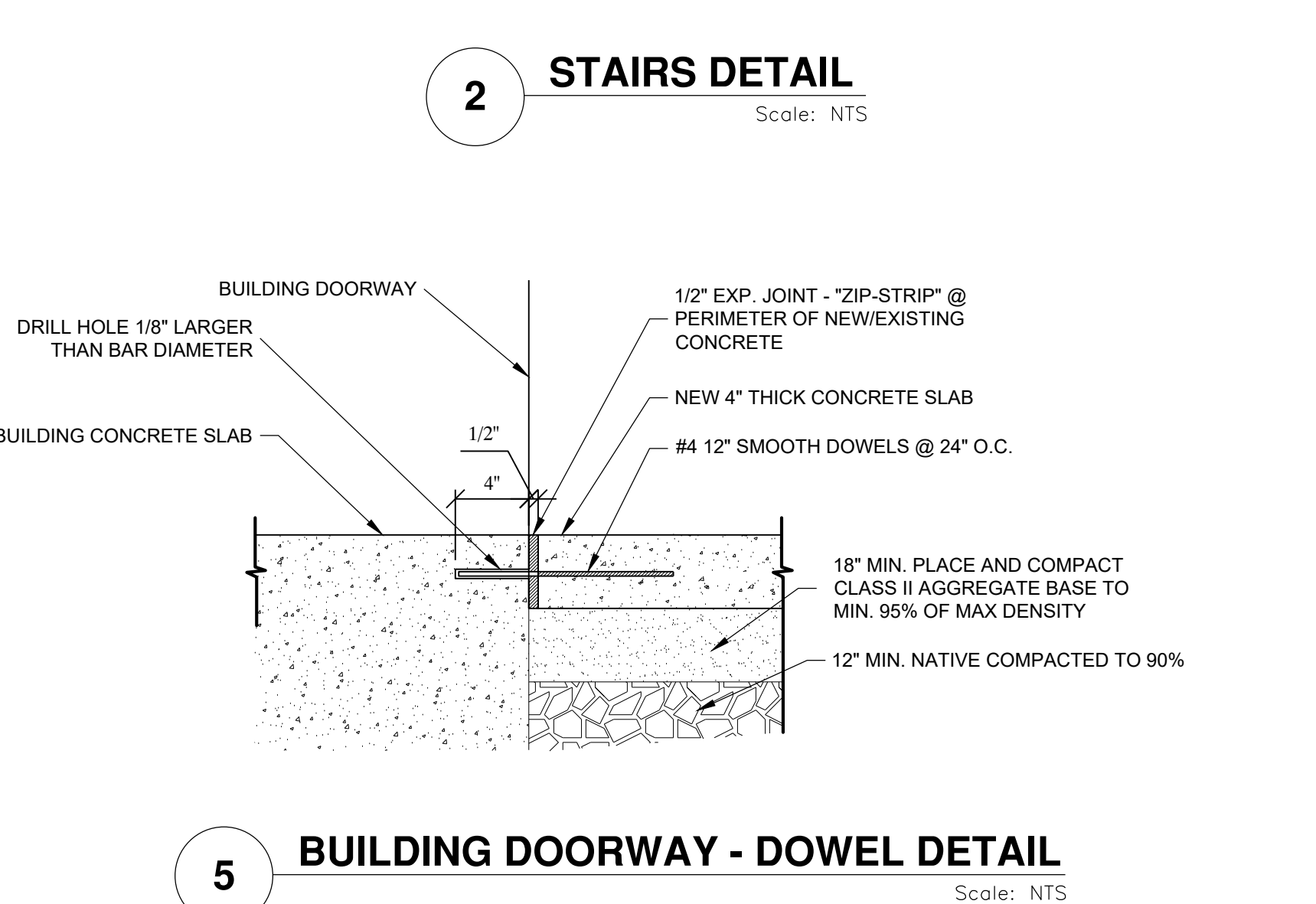
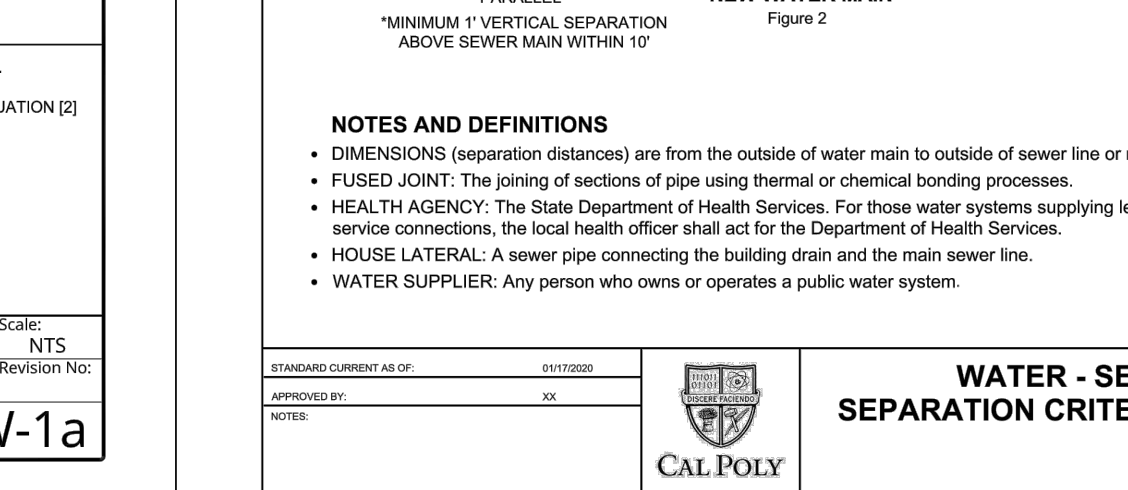
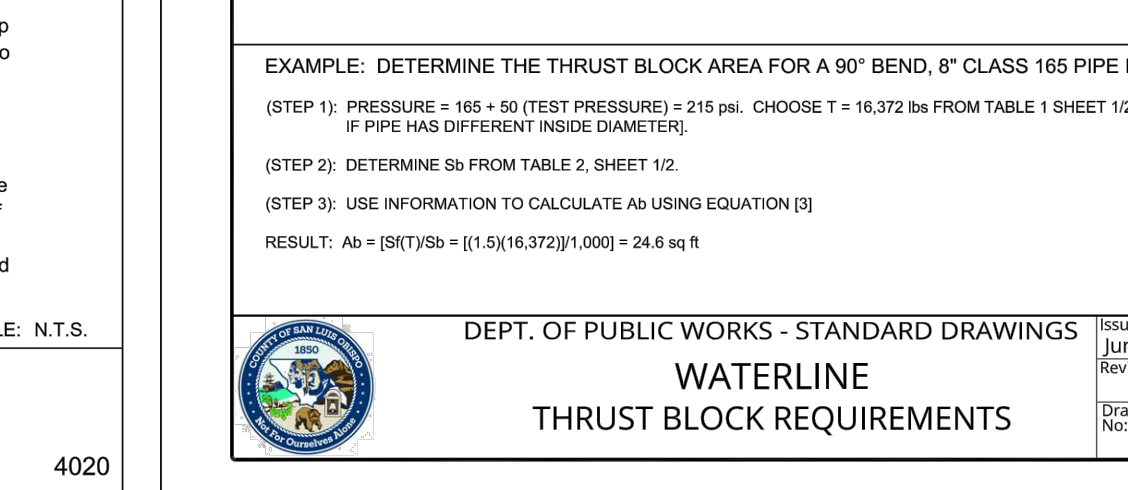
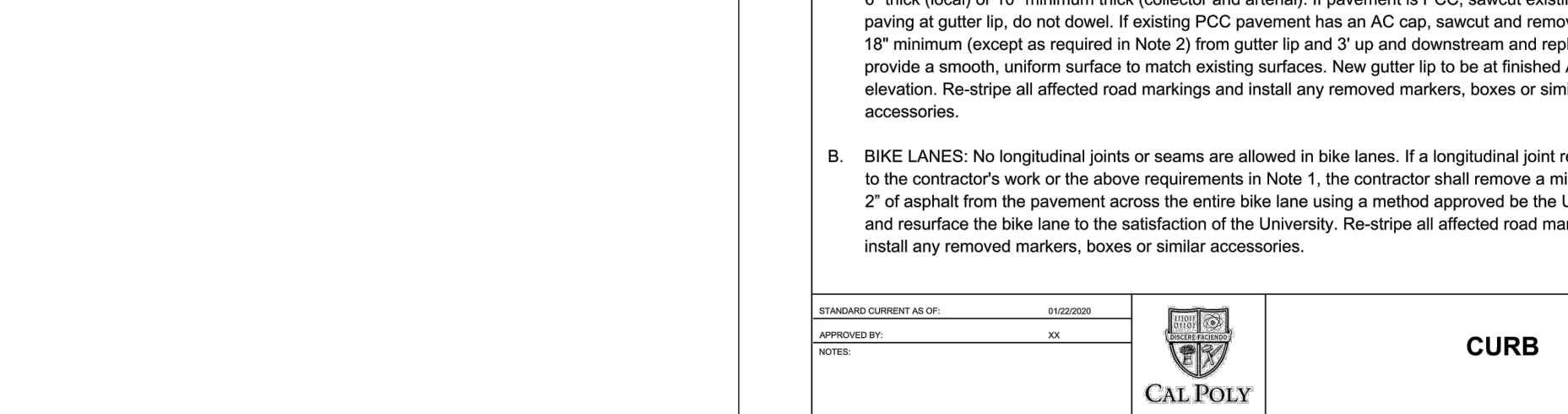
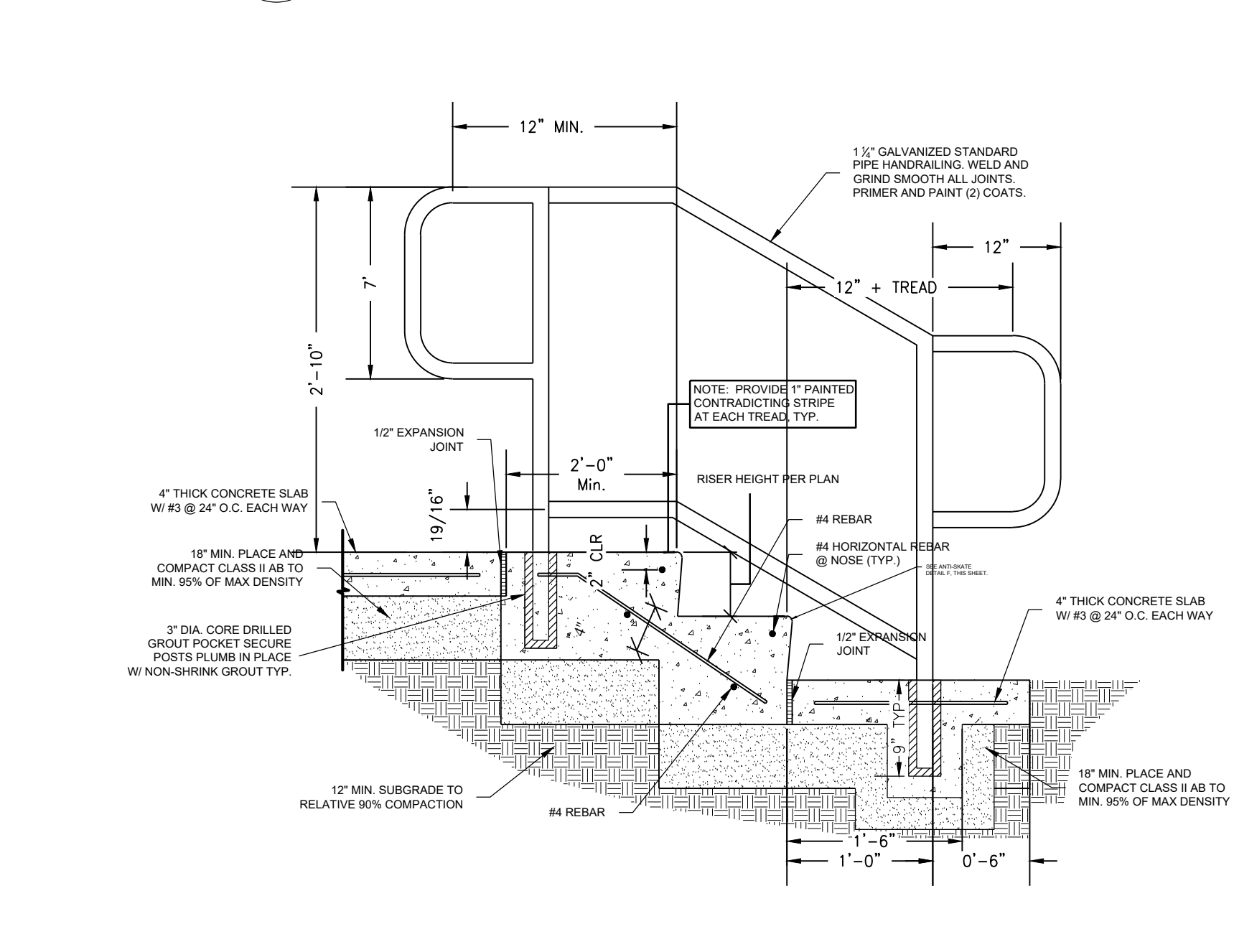
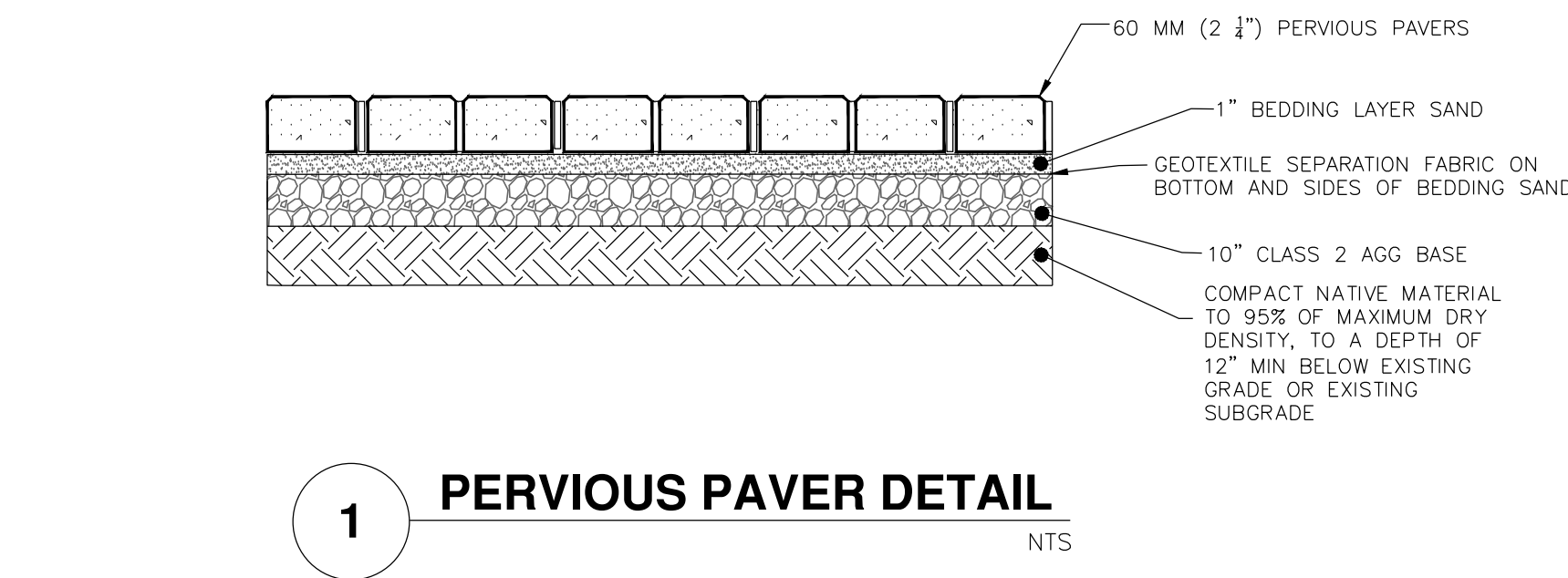
CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
DETAIL SHEET

DRAWN BY: _____ JOB NUMBER: 211031
SHEET NO. _____

C6

DATE: MARCH 31, 2023

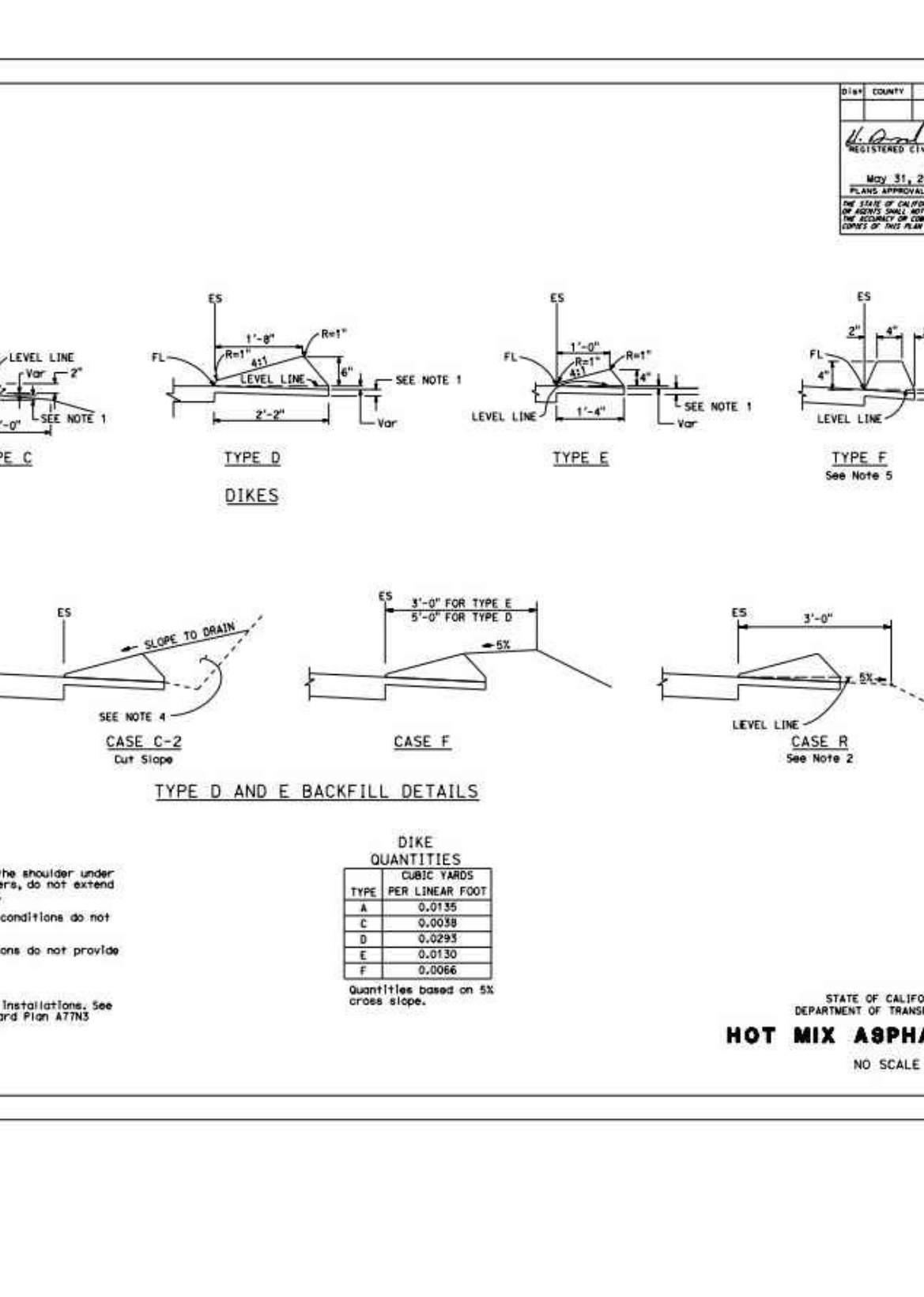
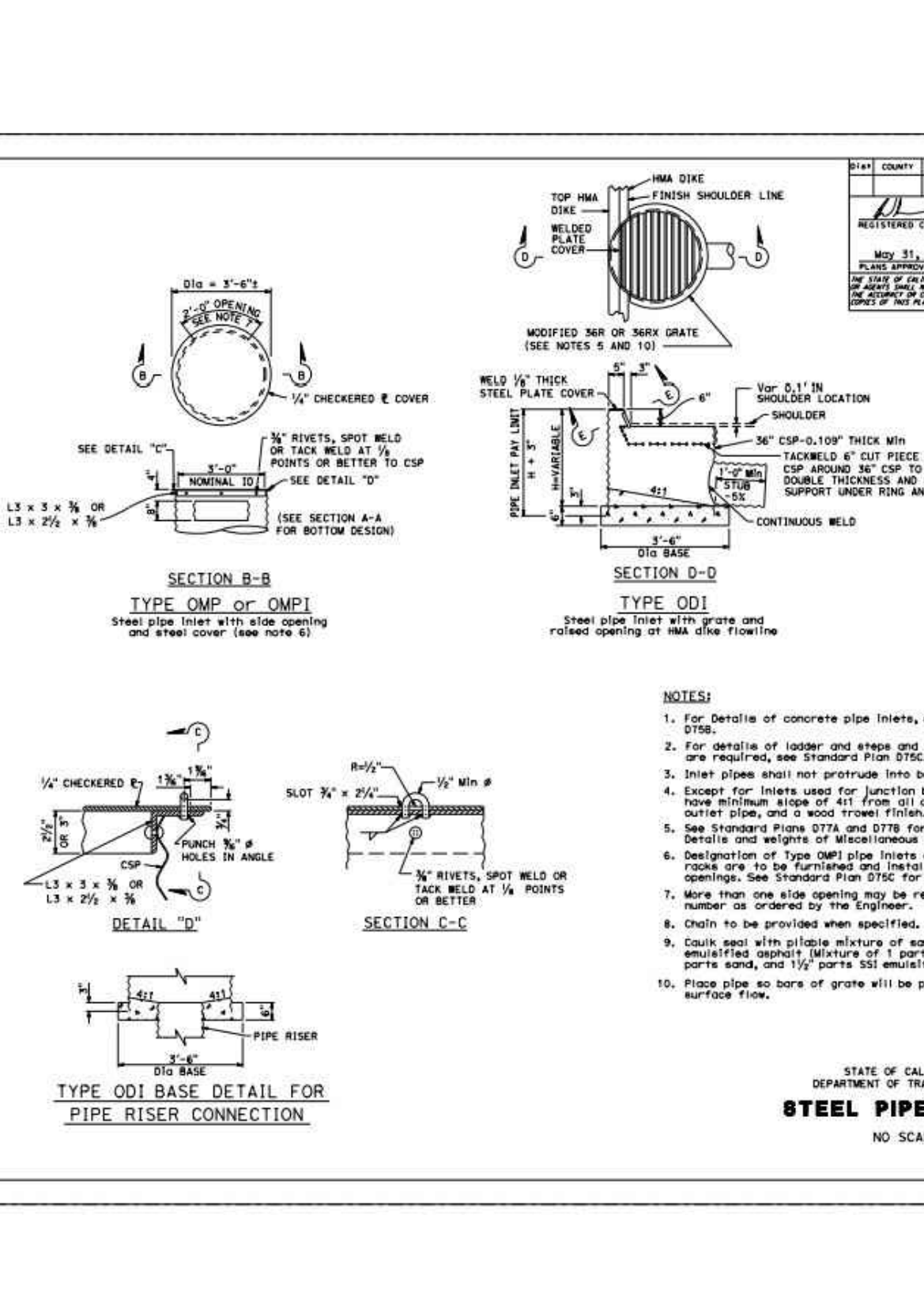
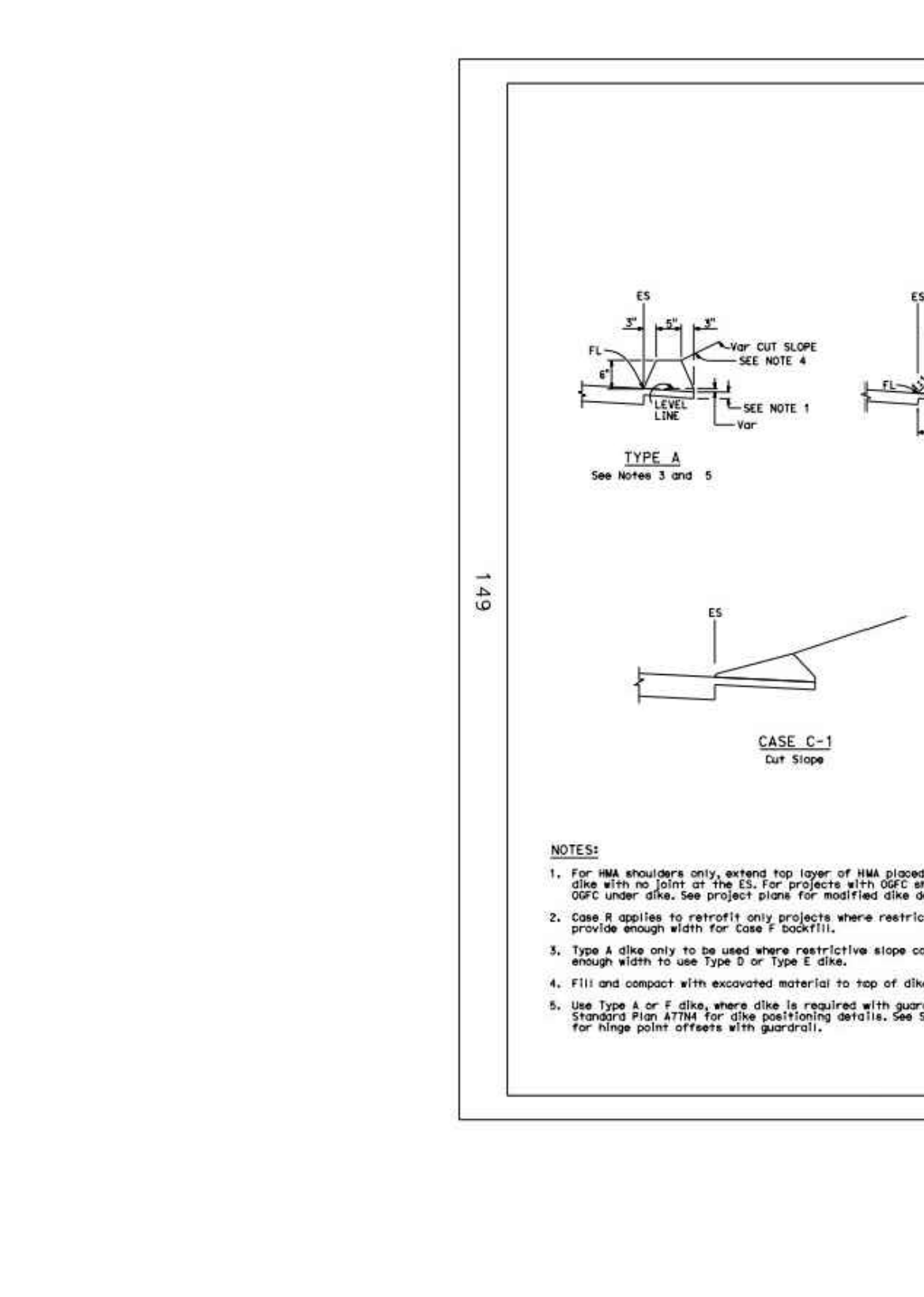
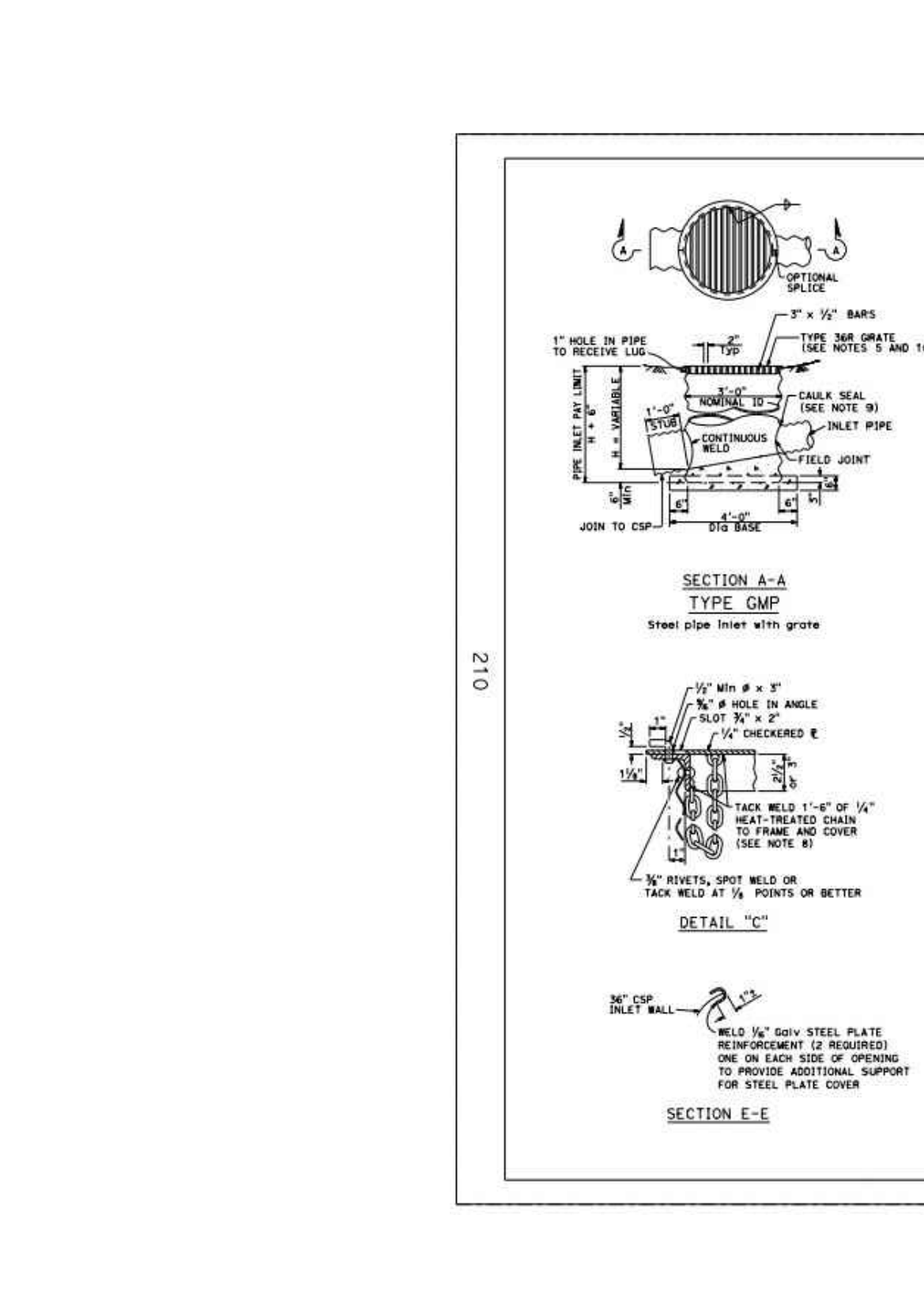
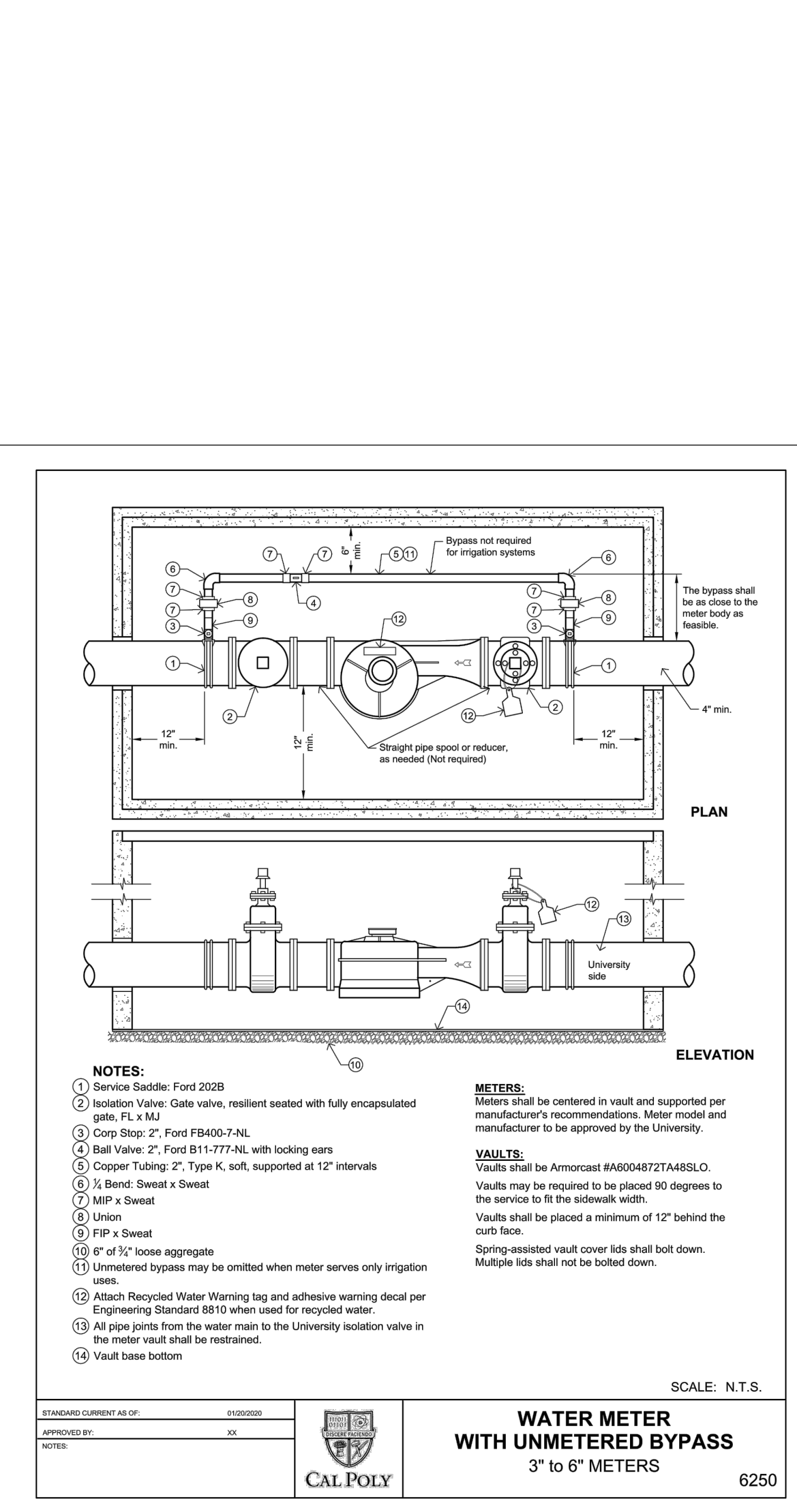
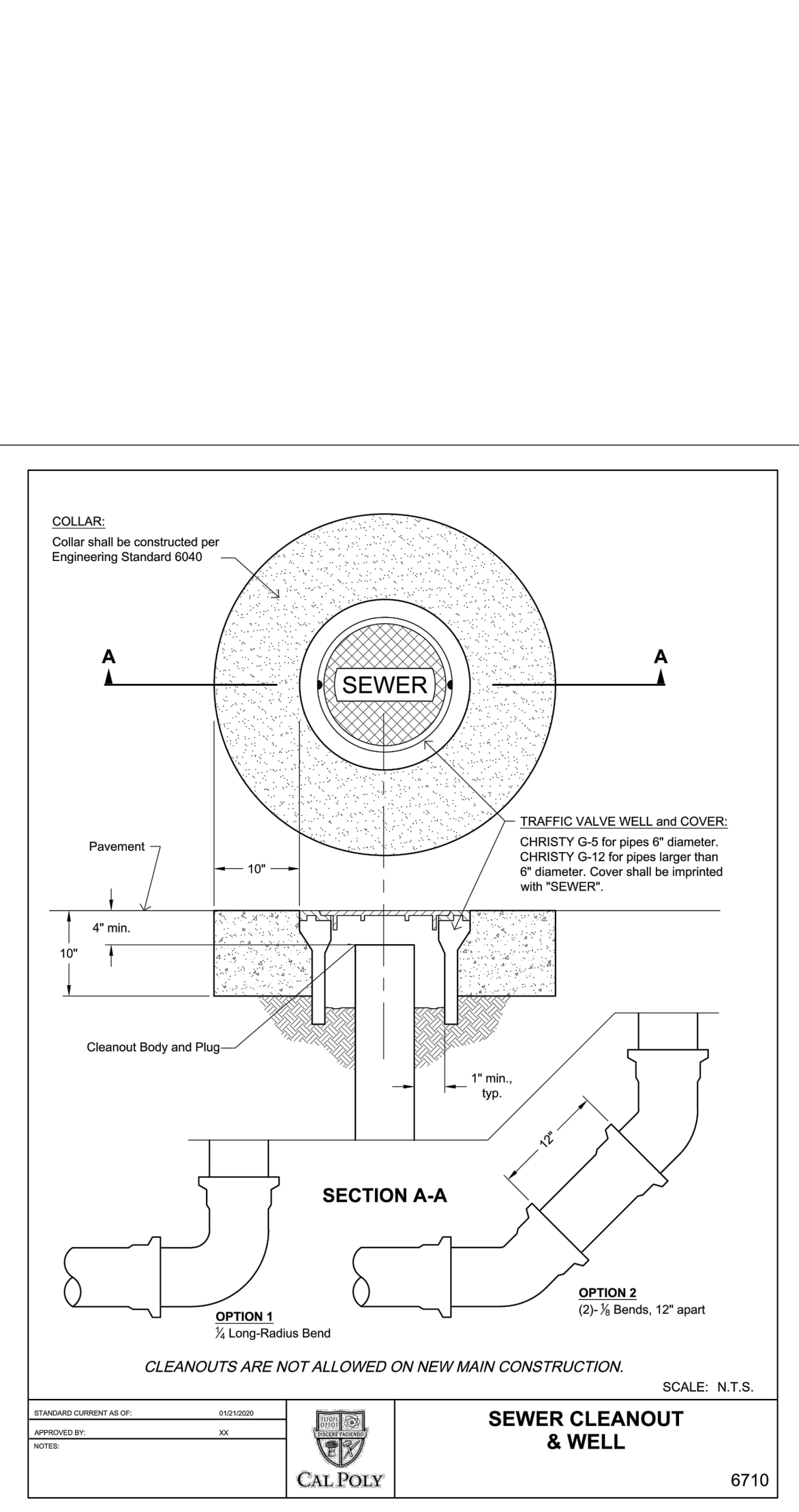
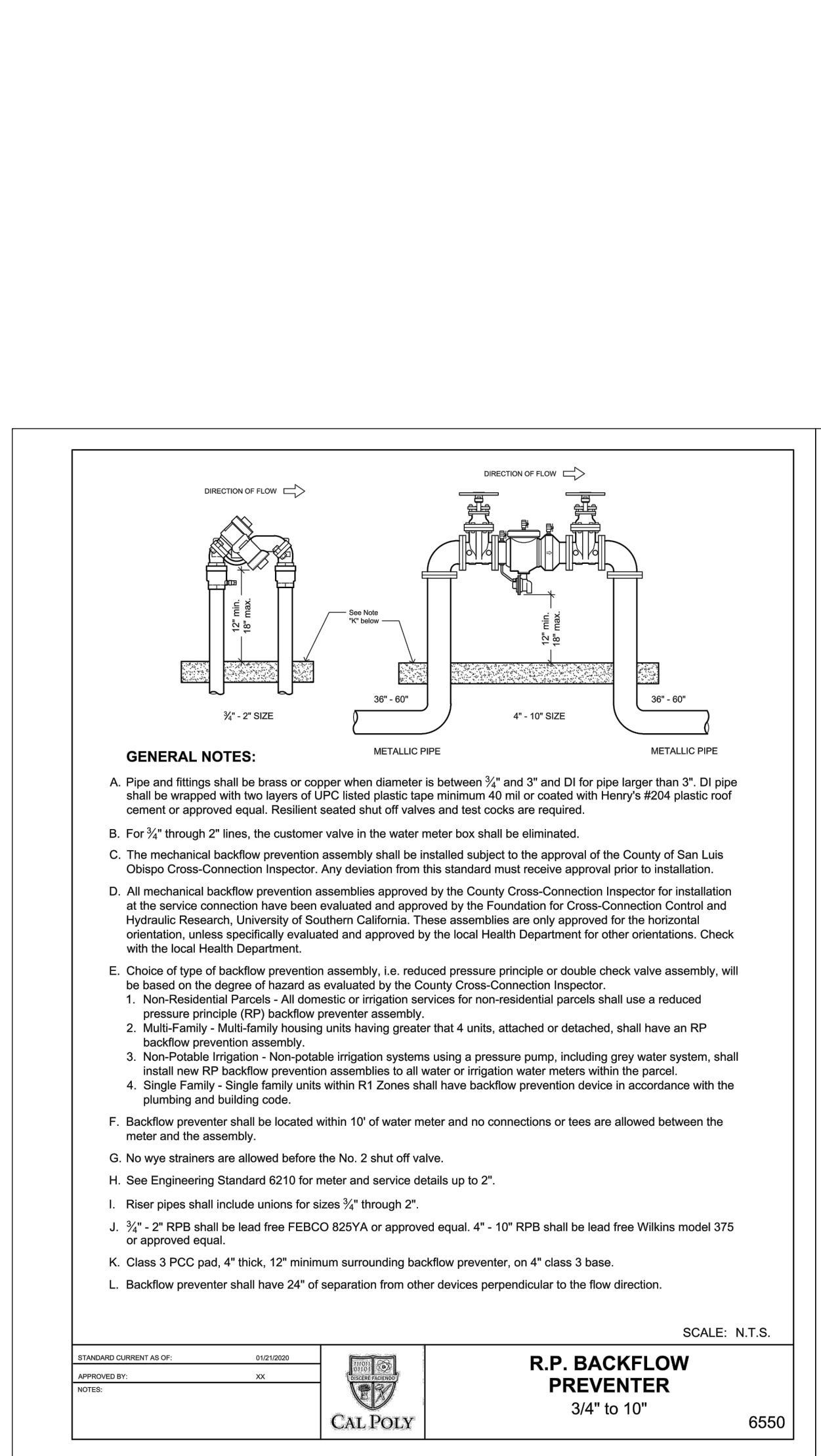
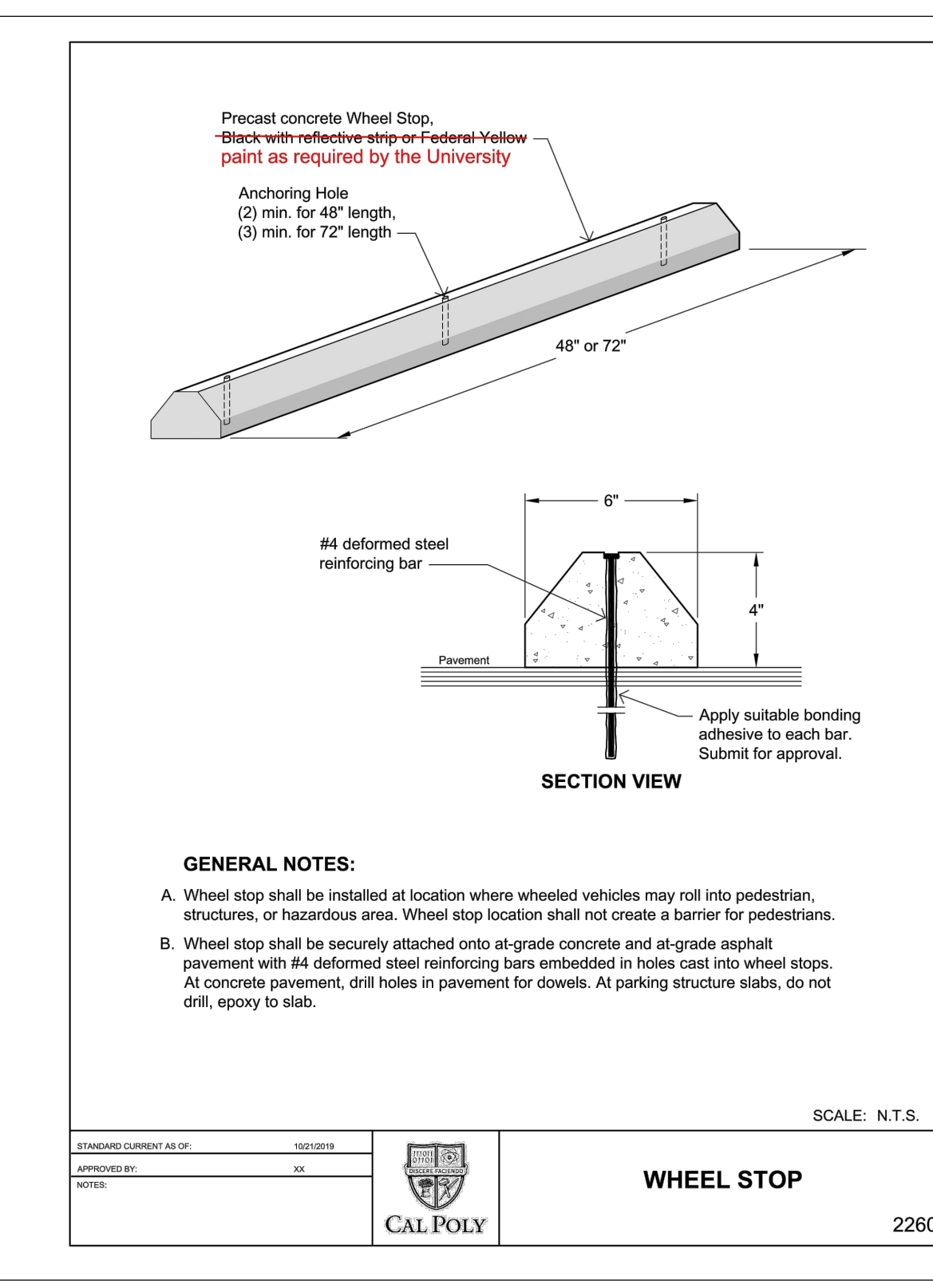
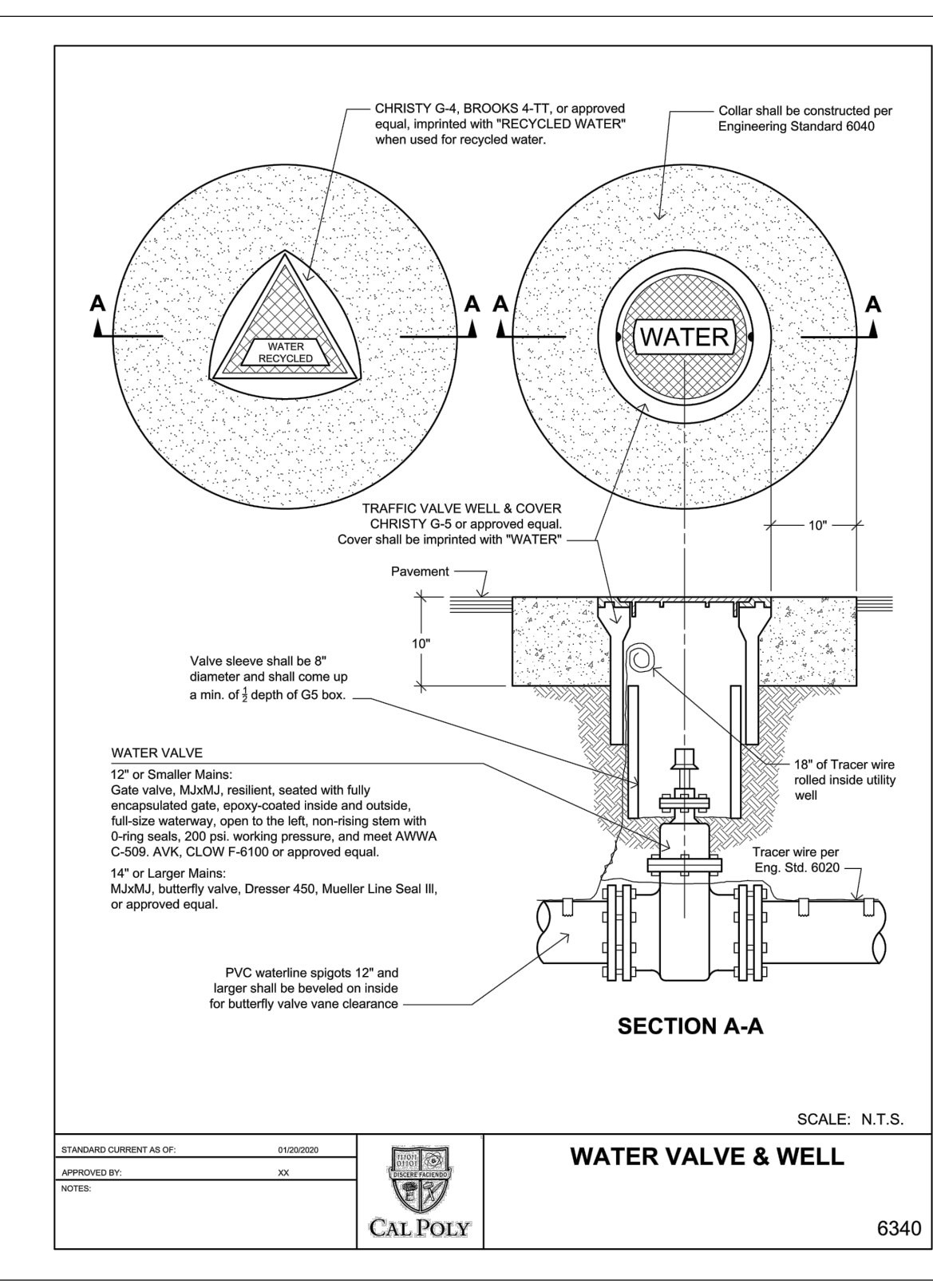
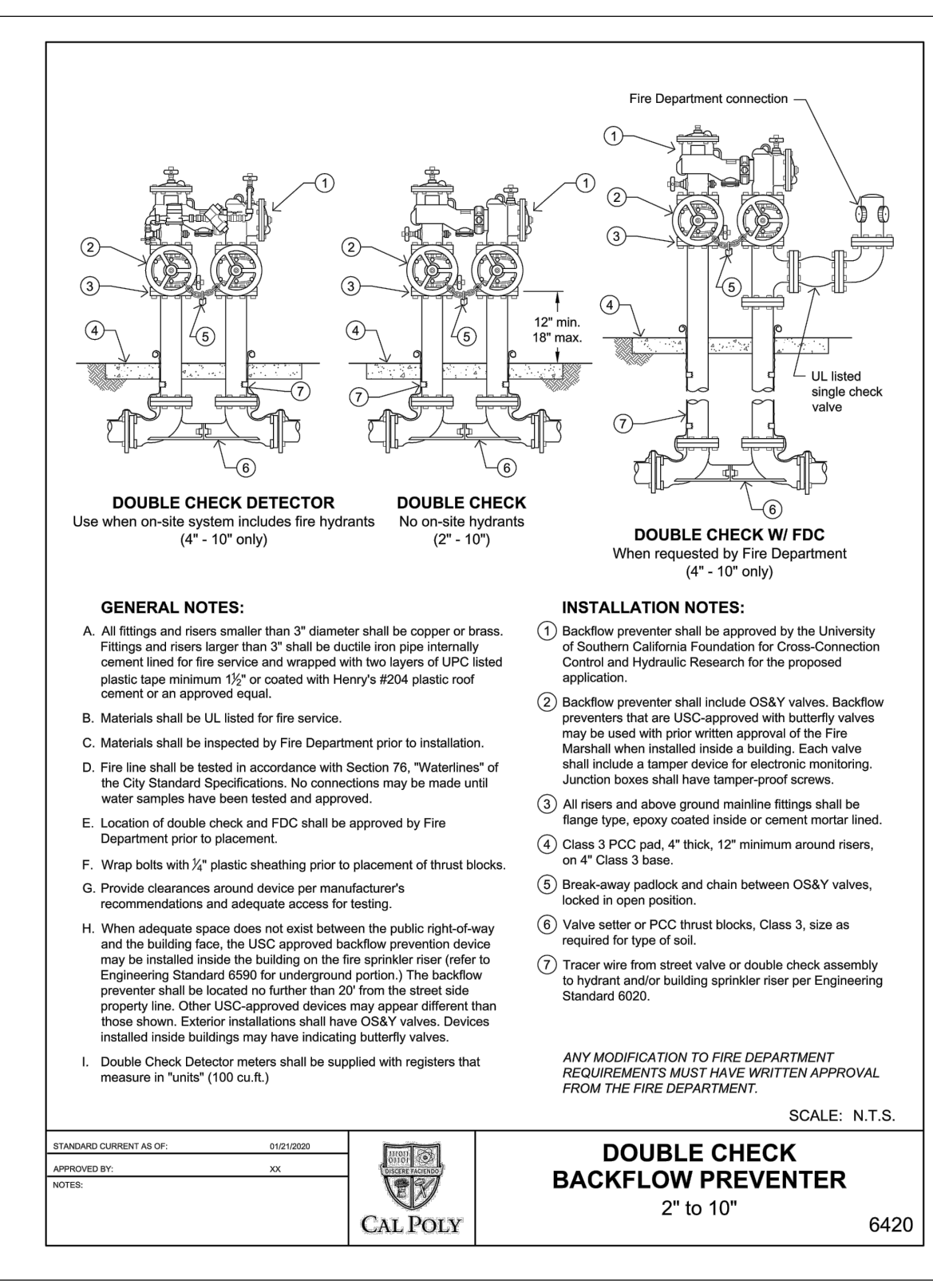
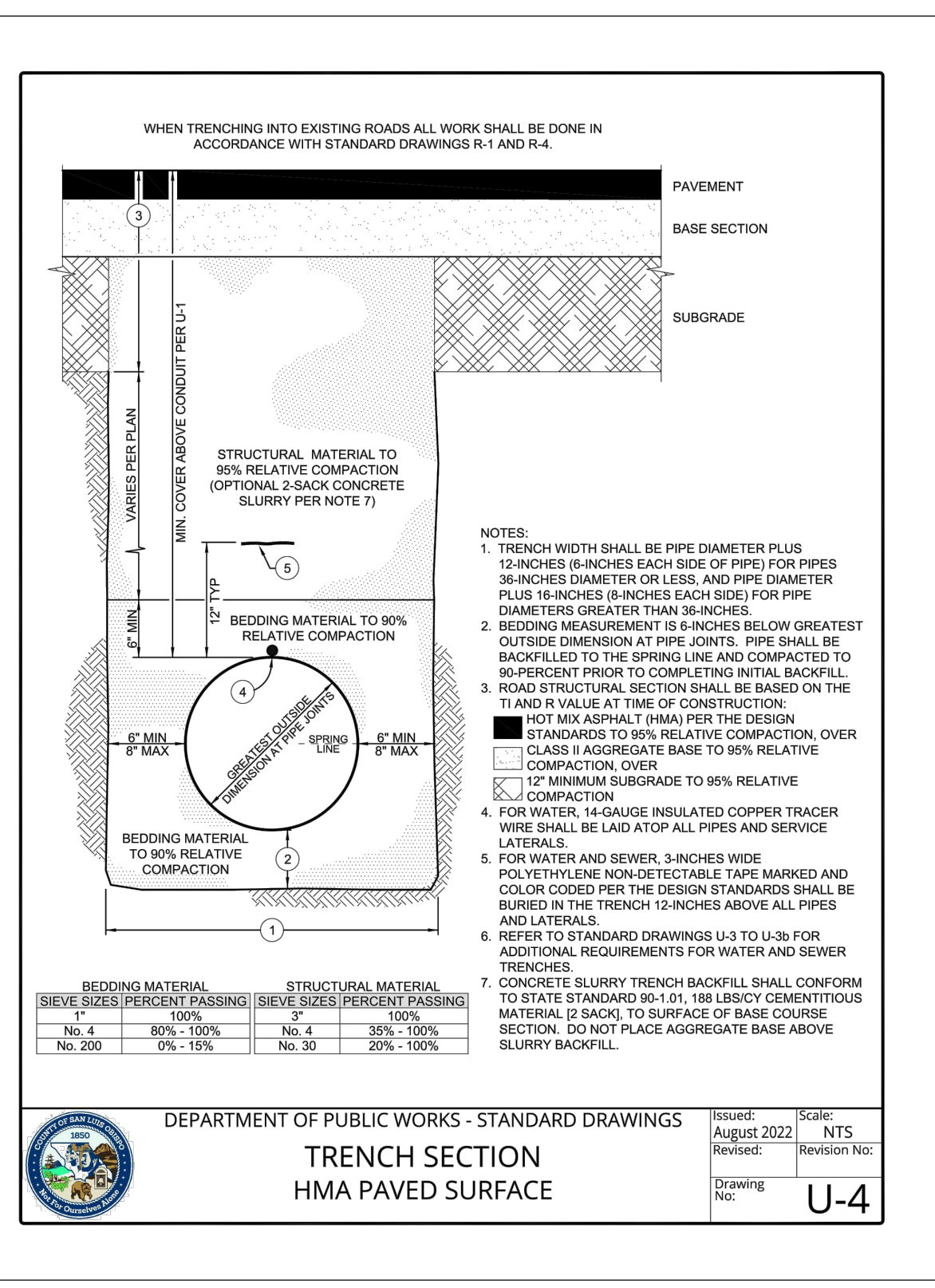
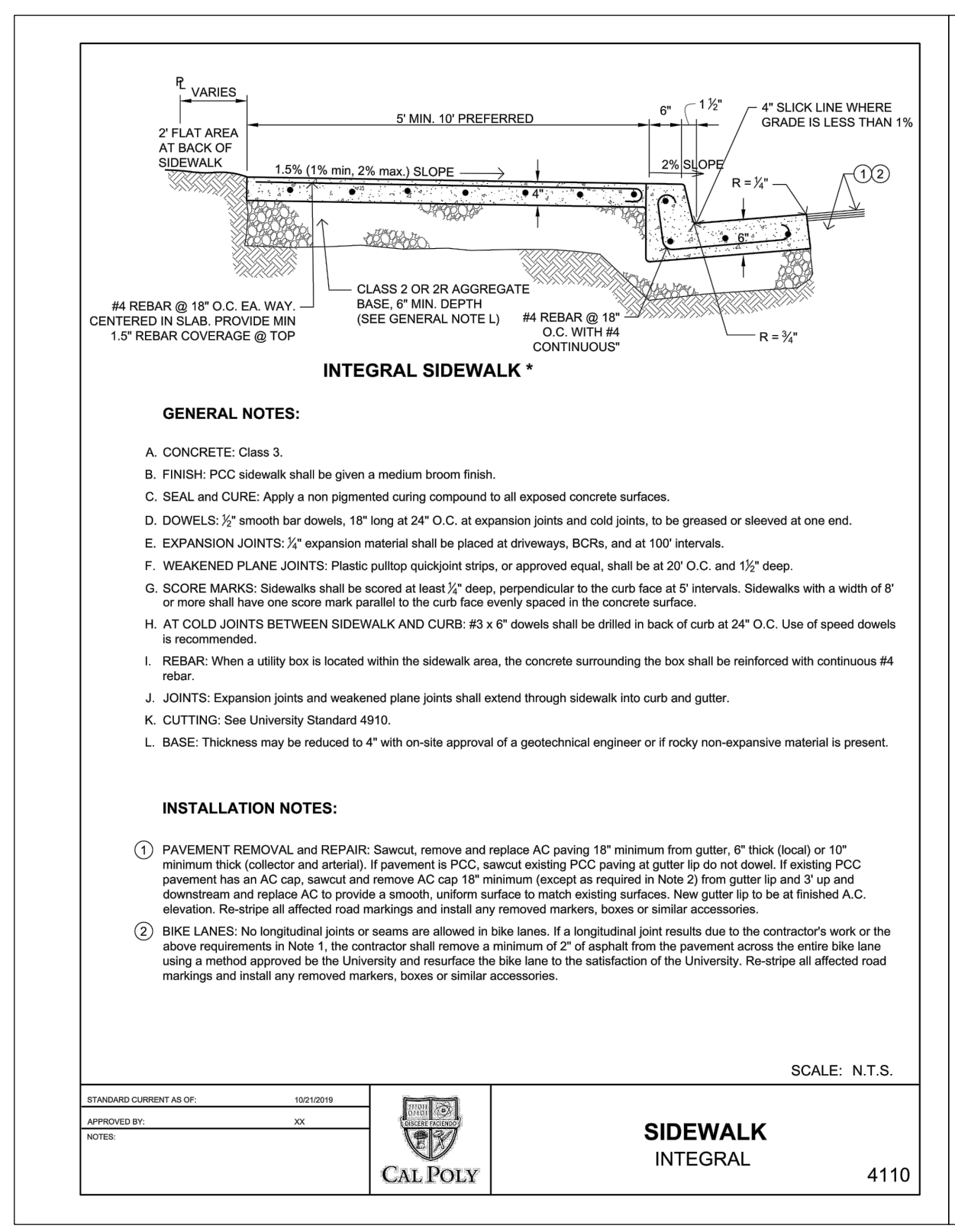


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(1-800-227-2600)
AT LEAST TWO DAYS
BEFORE YOU DIG

DPSI
DIVERSIFIED PROJECT SERVICES INTERNATIONAL

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(805) 250-2891 (661) 371-2800 (562) 424-6400

FILE LOCATION: N:\211031\007_CED\wg5-Sheets\2-Grade\CE211031-DS001.dwg
DATE PLOTTED: Jun 13, 2023 - 10:41am
PLOT BY: gpenz



AGENCY APPROVAL DSA# 03-122884

CSU The California State University
 OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: [Signature] 07/18/2023
 CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shubel

AMG

26535 SUMMIT CIRCLE
 SANTA CLARITA, CA 91350
 TEL (661) 251-7401

196

560 HIGUERA STREET, SUITE C
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 3442 EMPRESA DR., SUITE C
 SAN LUIS OBISPO, CA 93401
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ARCHITECT STAMP CONSULTANT STAMP

REGISTERED ARCHITECT
 ALFA FIRE UNLIMITED
 STATE OF CALIFORNIA
 No. 22474
 Exp. 10/31/25

REGISTERED PROFESSIONAL ENGINEER
 ALFA FIRE UNLIMITED
 STATE OF CALIFORNIA
 No. 80037
 Exp. 10/31/25

REVISONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
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 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

SHEET TITLE

DETAIL SHEET

DRAWN BY: [Blank] JOB NUMBER: 211031
 SHEET NO. [Blank]

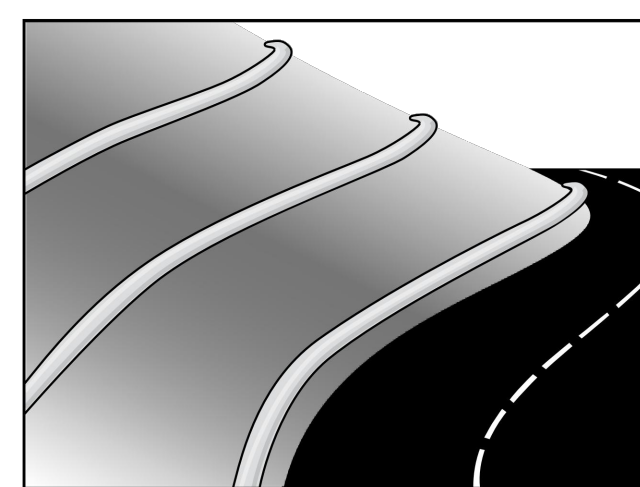
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DATE: MARCH 31, 2023

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 DIVERSIFIED PROJECT SERVICES INTERNATIONAL
 San Luis Obispo, Bakersfield, CA Long Beach
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Fiber Rolls



Description and Purpose
A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting...

- Suitable Applications
Fiber rolls may be suitable:
- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

SE-5

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

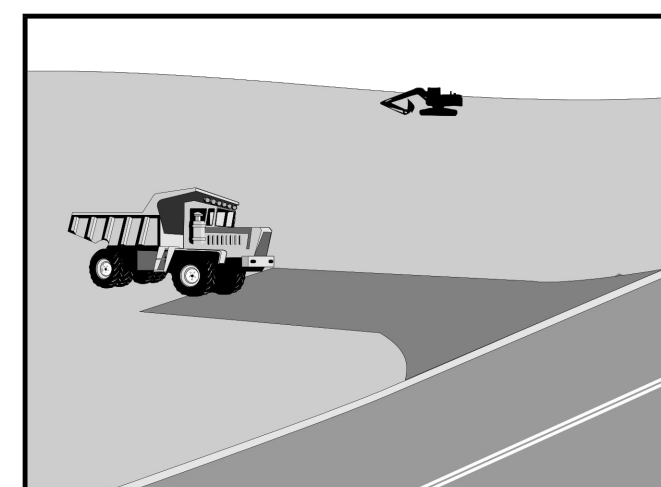
Potential Alternatives

- SE-1 Silt Fence
SE-4 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-12 Manufactured Linear Sediment Control
SE-18 Buffer Bags

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Stabilized Construction Entrance/Exit TC-1



Description and Purpose
A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Suitable Applications

- Use at construction sites:
- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water runoff.

TC-1

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

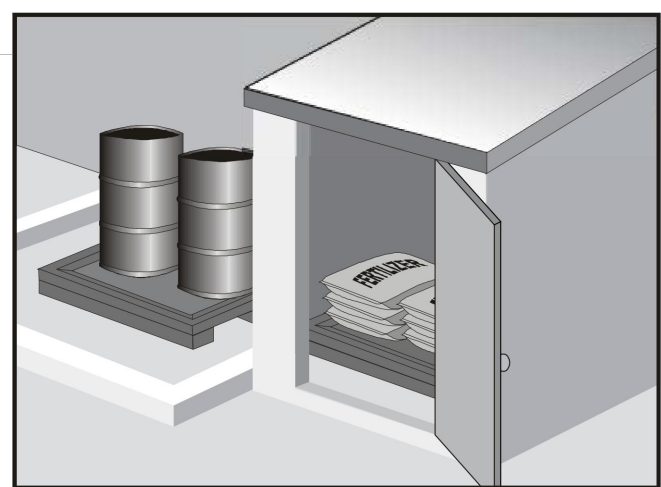
Potential Alternatives

None

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Material Delivery and Storage WM-1



Description and Purpose
Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourse by minimizing the storage of hazardous materials onsite, storing materials in watertight containers and/or a completely enclosed designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors.

Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- Soil stabilizers and binders
- Pesticides and herbicides
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease

WM-1

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

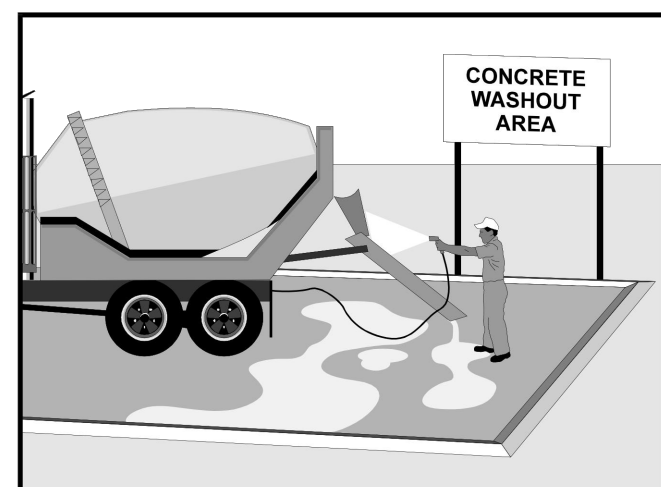
Potential Alternatives

None

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Concrete Waste Management WM-8



Description and Purpose
Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Shrires containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, growing, and hydro-concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed onsite.

WM-8

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

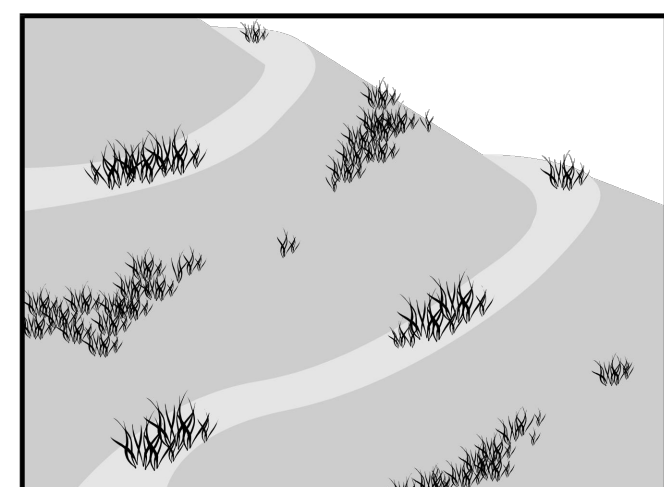
Potential Alternatives

None

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Hydroseeding EC-4



Description and Purpose
Hydroseeding typically consists of applying a mixture of a hydraulic mulch, seed, fertilizer, and stabilizing emulsion with a hydraulic mulcher, to temporarily protect exposed soils from erosion by water and wind.

Suitable Applications

Hydroseeding is suitable for disturbed areas requiring temporary protection until permanent stabilization is established, for disturbed areas that will be re-disturbed following an extended period of inactivity, or to apply permanent stabilization measures.

- Disturbed soil/graded areas where permanent stabilization or continued earthwork is not anticipated prior to seed germination.
- Cleared and graded areas exposed to seasonal rains or temporary irrigation.
- Areas not subject to heavy wear by construction equipment or high traffic.

EC-4

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

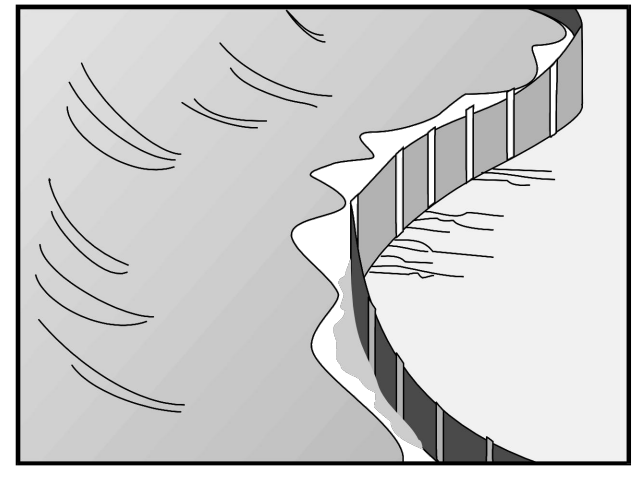
Potential Alternatives

- EC-3 Hydraulic Mulch
EC-4 Soil Binders
EC-8 Straw Mulch
EC-7 Geotextiles and Mats
EC-9 Wood Mulching
EC-14 Compost Blanket
EC-16 Non-Vegetative Stabilization

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Silt Fence SE-1



Description and Purpose
A silt fence is made of a woven geotextile that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support.

Suitable Applications

Silt fences are suitable for perimeter control, placed below areas where sheet flows discharge from the site.

- At perimeter of a project.
- Below the toe or down slope of exposed and erodible slopes.
- Along streams and channels.
- Around temporary spoil areas and stockpiles.
- Around inlets.
- Below other small cleared areas.

SE-1

Categories table with checkboxes for EC, SE, TC, WE, NS, WM, and Legend.

Targeted Constituents

- Sediment (coarse sediment)
Nutrients
Trash
Metals
Bacteria
Oil and Grease
Organics

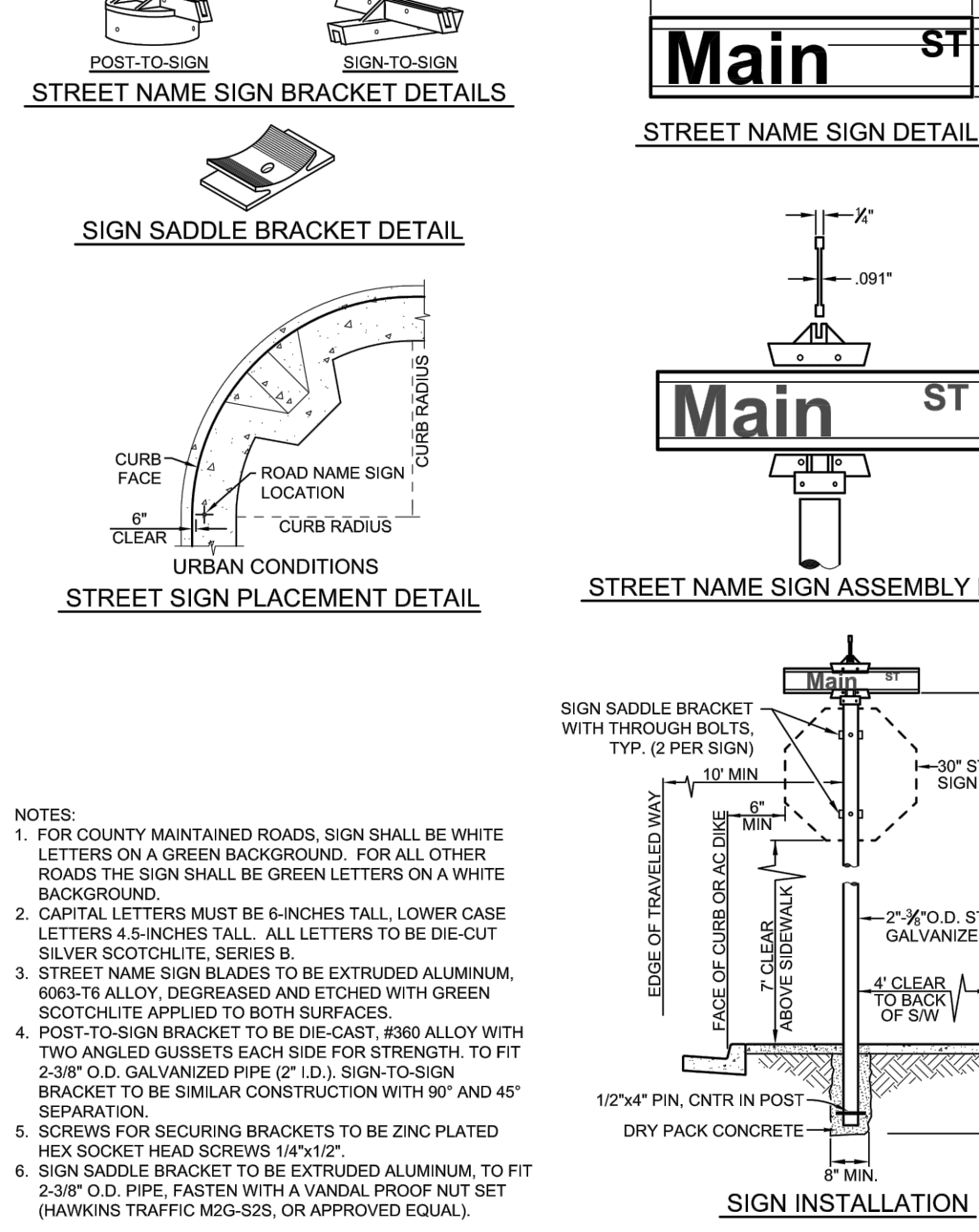
Potential Alternatives

- SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-12 Manufactured Linear Sediment Control
SE-13 Compost Soaks and Berms
SE-14 Buffer Bags

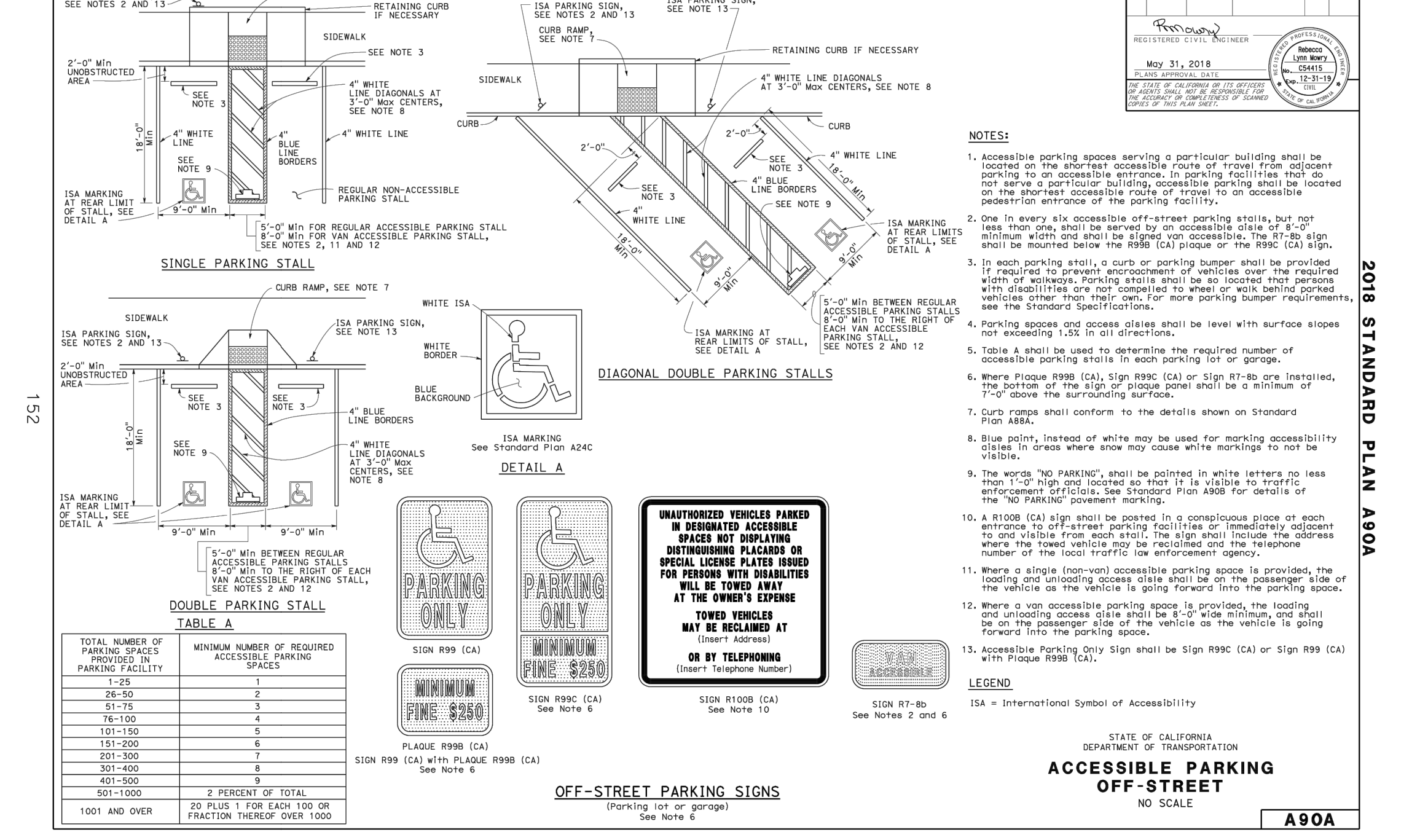
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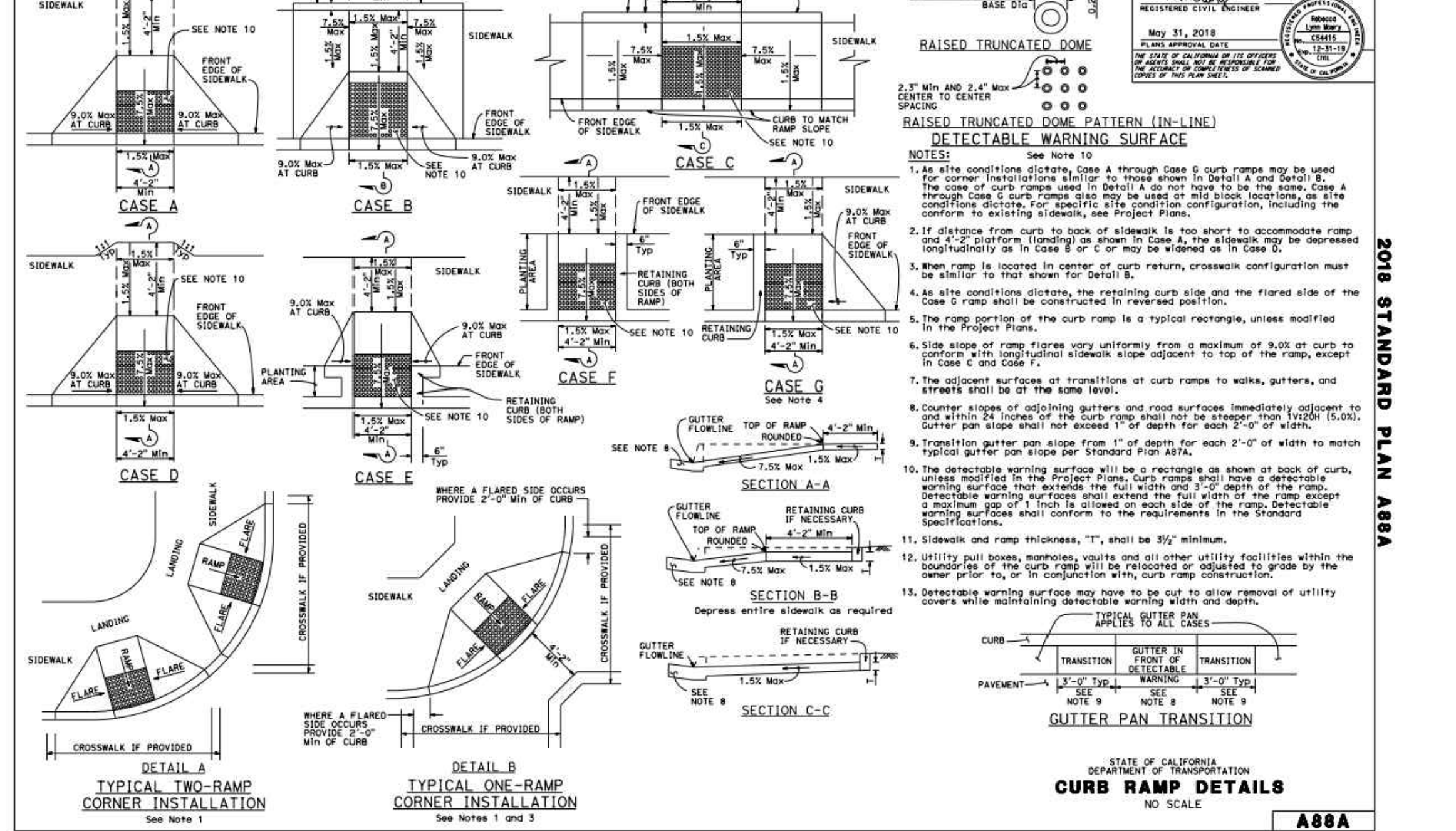


DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS SOURCE: JUNE 2019 NTS Revision No: M-4



STATE OF CALIFORNIA COMMUNITY DEVELOPMENT DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS SOURCE: JUNE 2019 NTS Revision No: A90A

CURB RAMP DETAILS



STATE OF CALIFORNIA COMMUNITY DEVELOPMENT DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS SOURCE: JUNE 2019 NTS Revision No: A88A

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560 HIGUERA STREET, SUITE C SAN LUIS OBISPO, CA 93401 TEL (805) 476-0399

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DETAIL SHEET

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WATER USE CALCULATIONS

Project No.: 2022-041		Date: April 3, 2023																																														
City/Governing Agency: Cal Poly SLO		Landscape Project Type: Non-residential																																														
Project Name: Cal Poly Tech Science Park Phase II -																																																
Reference Evapotranspiration (ET _o):	52.87 in/yr	CIMIS Station #	52																																													
LA (Landscape Area):	8,740 sq ft	San Luis Obispo																																														
SLA (Special Landscape Area):	sq ft	sq ft:																																														
Water Source:	Potable Water	SLA Description:																																														
MAWA = Maximum Applied Water Allowance (gallyr)		Crop plants																																														
MAWA = (ET _o) (0.62) [(0.45 x LA) + (0.55 x SLA)]		RW irrigation																																														
ET _o = Reference evapotranspiration (in inches per year)		RW features																																														
0.62 = Conversion factor (to get gallons per sq ft)		Active turf																																														
0.45 = ET Adjustment Factor (ETAF) (for plant factors and irrigation efficiency)		Total:																																														
LA = Landscape Area including any SLA (in sq ft)																																																
0.55 = Additional Water Allowance for any SLA																																																
SLA = Special Landscape Area (in sq ft) (edible crops, recycled water features, recycled water, recreational/active turf areas)																																																
Calculation:																																																
(52.87) x (0.62) x [(0.45 x 8,740) + (0.55 x 0)]		MAWA = 128,924 gal/year																																														
ETWU = Estimated Total Water Use (gallyr)																																																
ETWU = (ET _o) (0.62) [(PF x HA + IE) + SLA]																																																
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PF = Plant Factor from Water Use Classification of Landscape Species (WUCOLS)																																																
(low: 0.1-0.3, moderate: 0.4-0.6, high: 0.7-1.0; artificial turf: 0.1-0.2; water features: 0.8)																																																
HA = Hydrozone Area (low, moderate, or high water use in sq ft)																																																
IE = Irrigation Efficiency (Bubble: 0.81; Spray: 0.75; Microspray: 0.75; Rotator: 0.75; Drip: 0.81)																																																
SLA = Special Landscape Area (in sq ft) (edible crops, recycled water features, recycled water, recreational/active turf areas)																																																
Calculation:																																																
(52.87) x (0.62) x [(3,224) + 0]		ETWU = 105,683 gal/year																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hydrozone No.</th> <th>Plant Water Use Type Classification</th> <th>Plant</th> <th>Plant Factor (PF)</th> <th>Hydrozone Area (HA) (sq ft)</th> <th>PF x HA (sq ft)</th> <th>IE</th> <th>PF x HA / IE</th> <th>Irrigation Method</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Low</td> <td>Shrubs/GC</td> <td>0.3</td> <td>8,164</td> <td>2,449</td> <td>0.81</td> <td>3,024</td> <td>Drip</td> </tr> <tr> <td>2</td> <td>Low</td> <td>Trees</td> <td>0.3</td> <td>252</td> <td>76</td> <td>0.81</td> <td>93</td> <td>Drip</td> </tr> <tr> <td>3</td> <td>Moderate</td> <td>Trees</td> <td>0.5</td> <td>324</td> <td>162</td> <td>0.81</td> <td>200</td> <td>Drip</td> </tr> <tr> <td colspan="4">HA (sq ft) Total:</td> <td>8,740</td> <td></td> <td></td> <td>3,224</td> <td></td> </tr> </tbody> </table>				Hydrozone No.	Plant Water Use Type Classification	Plant	Plant Factor (PF)	Hydrozone Area (HA) (sq ft)	PF x HA (sq ft)	IE	PF x HA / IE	Irrigation Method	1	Low	Shrubs/GC	0.3	8,164	2,449	0.81	3,024	Drip	2	Low	Trees	0.3	252	76	0.81	93	Drip	3	Moderate	Trees	0.5	324	162	0.81	200	Drip	HA (sq ft) Total:				8,740			3,224	
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Note: MAWA formula and Irrigation Efficiency factors per latest State MWEO revisions.																																																
Estimated Total Water Use is under the Maximum Applied Water Allowance.																																																

GENERAL IRRIGATION NOTES

- THESE SYSTEMS ARE DESIGNED ACCORDING TO AN EXISTING STATIC WATER PRESSURE OF 80 PSI AVAILABLE AT THE BACKFLOW IRRIGATION PREVENTER. A MINIMUM OF 40 PSI IS REQUIRED AT THE DRIP EMITTERS. ENSURE ALL LANDSCAPED AREAS AFFECTED BY THIS CONSTRUCTION RECEIVE COMPLETE IRRIGATION COVERAGE.
- VERIFY THE EXACT LOCATION AND THE EXISTING AVAILABLE WATER PRESSURE AT POINT OF CONNECTION PRIOR TO ORDERING ANY IRRIGATION MATERIALS AND PROCEEDING WITH INSTALLING IRRIGATION SYSTEM. IF THE CONTRACTOR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT SHOULD THE EXISTING AVAILABLE WATER PRESSURE FOUND BE DIFFERENT, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES AND ADDITIONS THAT MAY OCCUR TO THE SYSTEMS.
- IRRIGATION MAINLINE, WIRE, VALVES AND CONTROLLERS WHICH SERVE AREAS OUTSIDE OF THE PROJECT SITE SHALL REMAIN OPERATIONAL.
- PROTECT IRRIGATION SYSTEMS TO REMAIN AND MAKE ANY ADJUSTMENTS NECESSARY AND AS DIRECTED ON PLANS FOR COMPLETE IRRIGATION COVERAGE. ANY DAMAGE TO EXISTING LANDSCAPE OR IRRIGATION CAUSED BY OPERATIONS OF CONTRACTOR SHALL BE REPAIRED TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- PRIOR TO ANY TRENCHING OR DIGGING IN AREAS WHERE EXISTING TREES ARE TO REMAIN, REFER TO SURVEY FOR TREE LOCATIONS
- EXERCISE CARE WHEN TRENCHING AROUND EXISTING LANDSCAPE AND PROTECT EXISTING LANDSCAPE DURING ALL PHASES OF WORK. WHEN ENCOUNTERED, HAND TRENCH AROUND EXISTING PLANT/TREE ROOTS OVER 2" IN DIAMETER. ALL DISTURBED AREAS SHALL MATCH APPEARANCE OF ADJACENT AREAS AT END OF WORK.
- PRIOR TO ANY CONSTRUCTION, CONTACT AND COORDINATE WORK WITH CAL POLY PROJECT MANAGER TO VERIFY THE LOCATIONS OF ALL EXISTING IRRIGATION EQUIPMENT SUCH AS HEADS, VALVES, VALVE BOXES, CONTROLLERS AND REMOTE CONTROL WIRING THAT MAY FALL ADJACENT TO, AND WITHIN THE LIMIT OF NEW CONSTRUCTION.
- ASCERTAIN THE EXTENT OF ANY SIMULTANEOUS AND ESSENTIAL WORK BY OTHERS ON THE SITE. CONTRACTORS SHALL COORDINATE THEIR OPERATIONS AND SHALL COOPERATE TO MINIMIZE INTERFERENCE.
- CORRELATE AND CONFIRM DIMENSIONS AT THE JOB SITE, PRIOR TO START OF ANY WORK.
- ALL NEW CONTROLLER STATION TERMINALS SHALL HAVE CONVENTIONAL WIRE CONNECTED TO THEM, WITH ALL STATION WIRES RUN OUT TO THE FIELD. COORDINATE ALL WIRE STUBOUTS WITH CAL POLY PROJECT MANAGER PRIOR TO INSTALLING.
- IRRIGATION MAINLINE, SPRINKLERS AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. MAINLINE AND VALVES SHALL NOT BE PLACED IN PAVED AREAS. INSTALL MAINLINE WHENEVER POSSIBLE 18" FROM WALKS, CURBS AND WALLS.
- VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES, STRUCTURES, EXISTING IRRIGATION VALVES, LATERAL LINES AND SPRINKLER HEADS IN WORK AREA PRIOR TO START OF CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK, CONTRACTOR SHALL PROMPTLY NOTIFY LANDSCAPE ARCHITECT TO ARRANGE FOR RELOCATIONS IF REQUIRED WITHIN WORK AREA PRIOR TO START OF CONSTRUCTION.
- VERIFY SITE FOR LOCATION OF ELECTRICAL SOURCE AND HAVE ELECTRICAL CONTRACTOR PROVIDE POWER SERVICE TO CONTROLLER.
- INSTALL QUICK COUPLING VALVES AND REMOTE CONTROL VALVES ADJACENT TO WALKS AND CURBS (12" MAX. FROM SUCH EDGES) IN PLANTING AREAS WHENEVER POSSIBLE.
- ALL LATERAL END RUNS ARE 3/4" SIZE UNLESS INDICATED OTHERWISE.
- ALL IRRIGATION LINES PASSING UNDER PAVING, THROUGH WALLS, STRUCTURES, ETC. SHALL BE SLEEVED WITH PVC SCH 40 BELL-END PIPE. SLEEVE SHALL BE 2 TIMES THE DIAMETER OF PIPE TO BE SLEEVED, MINIMUM.
- CONTROL WIRES PASSING UNDER PAVING, THROUGH WALLS, STRUCTURES, ETC. SHALL BE INSTALLED IN PVC SCH 40 BELL-END PIPE SLEEVES (USE SWEEPS WHERE POSSIBLE) AT LEAST 2 TIMES THE DIAMETER OF WIRE BUNDLE (2" SIZE MINIMUM); KEEP SEPARATE FROM WATER LINE SLEEVES INDICATED ON PLANS.
- NO LOW HEAD DRAINAGE IS ALLOWED. WHERE LOW HEAD DRAINAGE OCCURS THE CONTRACTOR SHALL INSTALL AN ANTI-DRAIN VALVE UNDER EACH SPRINKLER HEAD. THE ANTI-DRAIN VALVE WILL BE THE SAME DIAMETER SIZE AS THE RISER AND SHALL BE INTEGRATED INTO THE RISER ASSEMBLY. VALVE SHALL BE "HUNTER HCV", OR APPROVED EQUAL. IN THE CASE OF HEADS WITH BUILT-IN ANTI-DRAIN VALVES, THE MANUFACTURER'S INTEGRATED CHECK VALVE SHALL BE USED. SPRING AND SWING CHECK VALVES SHALL BE INSTALLED IN LATERAL LINES, WHERE REQUIRED, WHERE EXTERNAL CHECK VALVES AT SPRINKLER HEADS AND POINT SOURCE EMITTERS CANNOT HOLD BACK LOW HEAD DRAINAGE (SEE ALSO IRRIGATION EQUIPMENT LEGEND), CONTRACTOR SHALL PROVIDE CHECK VALVES AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTINGS SHALL BE FULLY WATERED IN UPON PLANTING. DO NOT RELY SOLELY UPON THE IRRIGATION SYSTEM. UTILIZE SUPPLEMENTAL HOSE WATERING AS REQUIRED, INITIALLY AND DURING THE PLANT ESTABLISHMENT PERIOD, TO ENSURE ALL PLANTINGS RECEIVE ADEQUATE AND REGULAR WATER TO THE ENTIRE ROOT ZONE.
- ALL IRRIGATION MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND WITH THE CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.

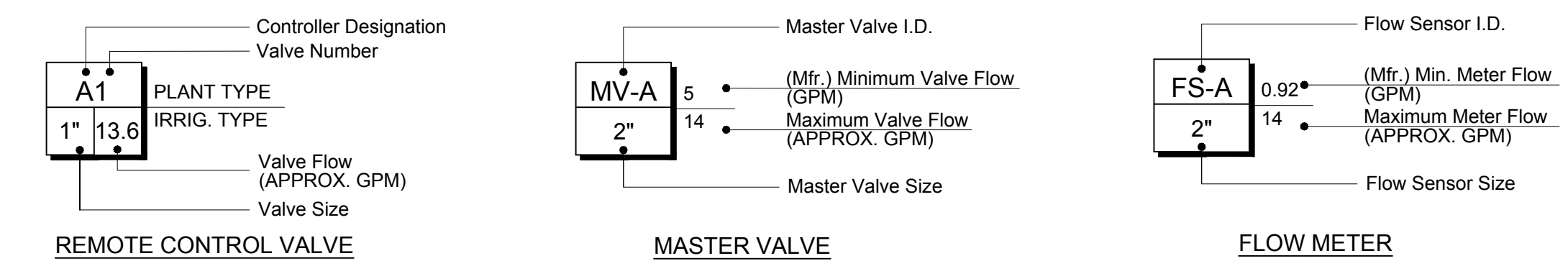
REPAIR AND REPLACE IRRIGATION NOTES

- INSPECT THE PROJECT SITE PRIOR TO BEGINNING WORK, AND TO THE BEST OF ABILITIES, DETERMINE WHICH EXISTING IRRIGATION FACILITIES, IF ANY, ARE AFFECTED BY CONSTRUCTION OF SITE IMPROVEMENTS.
- TAKE APPROPRIATE ACTION PRIOR TO GRADING/CONSTRUCTION, TO ENSURE THAT EXISTING PRESSURIZED WATER LINES, LATERAL LINES AND IRRIGATION CONTROL WIRES ARE PROPERLY DISCONNECTED, RELOCATED AND/OR CAPPED TO PREVENT WATER SPILLAGE OR POTENTIAL HAZARDS.
- HAVE A QUALIFIED PERSON ON SITE DURING THE GRADING/CONSTRUCTION OPERATION TO DISCONNECT AND CAP EXISTING IRRIGATION FACILITIES.
- OBTAIN APPROVAL FROM THE CAL POLY PROJECT MANAGER FOR RELOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- VERIFY EXACT LOCATIONS AND STAKE ALL DISCONNECTED, CAPPED OR RELOCATED FACILITIES IN THE FIELD AFTER GRADING /CONSTRUCTION HAS BEEN COMPLETED.
- AT ALL TIMES, ENSURE THAT EXISTING IRRIGATION FACILITIES WHICH REMAIN AFTER GRADING, REMAIN OPERATIONAL AND ADJOINING UNDISTURBED AREAS RECEIVE ADEQUATE AND REGULAR IRRIGATION.
- HAND IRRIGATE ALL EXISTING LANDSCAPED AREAS WHICH CANNOT BE IRRIGATED BY EXISTING FACILITIES AFFECTED BY THE IMPROVEMENTS UNTIL IRRIGATION SYSTEMS ARE RESTORED.
- MODIFY EXISTING IRRIGATION SYSTEMS IN AREAS INDICATED ON THE PLANS. RELOCATED EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO: SPRINKLER HEADS, DISTRIBUTION LINES, AND IRRIGATION WIRE. ANY NEW EQUIPMENT WILL MATCH THE MANUFACTURER AND MODEL NUMBER OF EQUAL, OF EXISTING EQUIPMENT.
- REGULAR WATERING OF EXISTING LANDSCAPED AREAS SHALL OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. NOTIFY CAL POLY PROJECT MANAGER WELL IN ADVANCE AND COORDINATE WORK SUCH THAT WATER SERVICE IS ONLY DISRUPTED FOR THE BRIEF MOMENT REQUIRED TO MAKE CONNECTIONS TO EXISTING MAINLINES.
- PATCH AND REPAIR ALL EXISTING PLANTING AND IRRIGATION WORK DAMAGED BY INSTALLATION OF NEW IRRIGATION WORK. ALL REPAIRED AREAS SHALL MATCH ADJACENT AREAS. REPAIRED/ REPLACED IRRIGATION MATERIALS SHALL BE OF SAME MANUFACTURER AND MODEL AS DISTURBED ORIGINAL CONSTRUCTION MODIFICATIONS TO EXISTING SYSTEMS SHALL ACHIEVE COMPLETE COVERAGE.
- CHALK THE CONFIGURATION OF THE MODIFIED SYSTEM IN THE FIELD AND OBTAIN APPROVAL FROM THE CAL POLY PROJECT MANAGER PRIOR TO TRENCHING.
- AFTER EXISTING IRRIGATION SYSTEM MODIFICATIONS ARE COMPLETE, CONTRACTOR SHALL CONDUCT A COVERAGE TEST IN THE PRESENCE OF THE CAL POLY PROJECT MANAGER AND THE LANDSCAPE ARCHITECT FOR FINAL APPROVAL.

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS	DETAIL / SHEET
[C]	IRRIGATION CONTROLLER	CALSENSE CS3000 (16 STATION); CS3-16S/TP-110/CS3-EN-KIT/CS-SH-KIT. PEDESTAL ENCLOSURE ASSEMBLY WITH CONVENTIONAL WIRE OPTION, EXPANDABLE TO 48 STATIONS	VERIFY LINE OF SIGHT TO EXISTING CALSENSE HUB IN THE FIELD PRIOR TO INSTALLATION	A / LI-3.0
[BF]	BACKFLOW PREVENTION ASSEMBLY	FEBCO 825YA, 2" BRONZE REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY WITH -WATTS LFN55B PRESSURE REDUCING VALVE (PRV) WITH WATTS 97FB-CSSIB WYE STRAINER(Y/S), 2"	APPROXIMATE LOCATION SHOWN, FIELD VERIFY. INSTALL YS & PR IMMEDIATELY DOWNSTREAM OF BACKFLOW PREVENTER.	B / LI-3.0
[M]	WATER METER	2" WATER METER, REFER TO CIVIL	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	REFER TO CIVIL
NO SYMBOL	BACKFLOW ENCLOSURE	V.I.T. STRONGBOX SBCC-40ALHP OR APPROVED EQUAL, SIZED TO FIT ASSEMBLY	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	B / LI-3.0
[MV]	MASTER VALVE	SUPERIOR 3300-RW, NORMALLY OPEN, 2" SIZE (0 - 320 GPM)	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	D / LI-3.0
[FS]	FLOW SENSOR	FLOMEC QS200-20 PW, 2" (0.92 - 138 GPM)	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	E / LI-3.0
[S]	SHUTOFF VALVE	NIBCO T-113-K-250 PSI CSP BRONZE GATE VALVE	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	F / LI-3.0
[E]	ELECTRIC REMOTE CONTROL VALVE	RAINBIRD XCZ-100-PRB-LC, 1"	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	B / LI-4.0
NO SYMBOL	PRESSURE REGULATING SCREEN FILTER	RAINBIRD PRF-100-RBY, RBY-200SSMX 200 MESH SS REPLACEMENT SCREEN	PROVIDE AT EACH DRIP ZONE VALVE	B / LI-4.0
[F]	AUTOMATIC FLUSH VALVE	NETAFIM TL050MFV-1; 1/2" AUTOMATIC FLUSH VALVE	PROVIDE FOR EACH DRIP ZONE	F / LI-4.0
[A]	AIR VACUUM RELIEF VALVE	RAINBIRD ARV050, 1/2" AIR VACUUM RELIEF VALVE	PROVIDE FOR EACH DRIP ZONE. INSTALL AT HIGHEST ELEVATION POINT IN DRIP ZONE	E / LI-4.0
[I]	DRIP OPERATION INDICATOR	RAINBIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, 6"	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	A / LI-5.0
[P]	POINT SOURCE DRIP IRRIGATION	RAINBIRD XBT-20 XERIBUG EMITTER INSTALLED ON KBI FR0500-06 FLEX RISER; 1/2" x 6" FLEX RISER OFF 3/4" PVC SCH 40 LATERAL LINE	ONE (1) EMITTER PER 1 GAL. / 5 GAL. / 15 GAL. PLANT. EMITTER SPACED AT 30" APART AND BETWEEN ROWS	D / LI-4.0
[S]	SUBSURFACE DRIP	NETAFIM TLXVR6-18XX SUBSURFACE DRIPLINE	0.6 GPH / 18" EMITTER SPACING. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, WITH NETAFIM FITTINGS	A, B / LI-6.0
[B]	TREE BUBBLER ASSEMBLY	TORO DB-09-PC PRESSURE COMPENSATING DRIP BUBBLER	(2) BUBBLERS PER TREE SYMBOL (PER TREE), 9GPH PER BUBBLER AT 40 PSI	A / LI-4.0
[K]	QUICK COUPLING VALVE	RAINBIRD 33DLRC, LOCKING KEY COVER, 33DK KEY	APPROXIMATE LOCATION SHOWN, FIELD VERIFY	C / LI-4.0
1"	LATERAL LINE	PVC SCHEDULE 40 WITH SCHEDULE 40 FITTINGS (SIZE PER PLAN)	1" SIZE & ABOVE ARE INDICATED ON THE PLANS. LINE ENDS ARE 3/4" IN SIZE UNLESS OTHERWISE NOTED	B, C / LI-5.0
[1-1/2"]	MAINLINE	PVC SCHEDULE 40 WITH SCHEDULE 80 FITTINGS (SIZE PER PLAN)	APPROXIMATE LOCATION SHOWN, FIELD VERIFY EXACT LOCATION	B, C / LI-5.0
[S]	PIPE SLEEVE	PVC SCHEDULE 40	MIN. 2" SIZE, MIN. TWICE THE DIAMETER OF PIPE SLEEVED	B, C / LI-5.0
[W]	WIRE CONDUIT	PVC SCHEDULE 40 (GRAY)	MINIMUM 2X DIAMETER OF WIRE BUNDLE	B, C / LI-5.0
[D]	DRIP TO PVC LINE TRANSITION FITTINGS	PVC SCH 40 ELL, LINE SIZE SLIP X 1/2" FIPT AND 1/2" BARBED MALE ADAPTER	INSTALL PER IRRIGATION DETAILS	B / LI-6.0

EQUIPMENT CALLOUTS

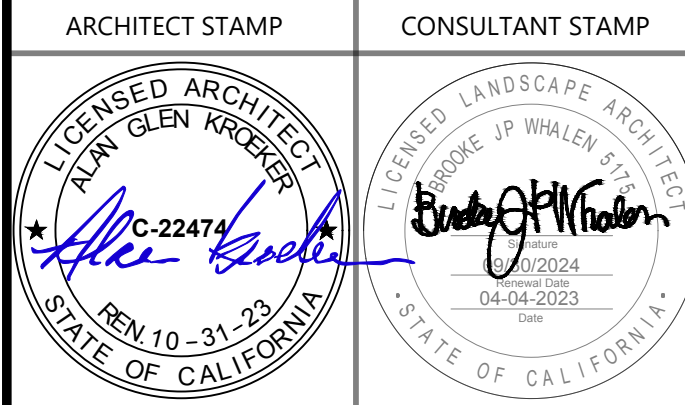


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CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
IRRIGATION SCHEDULE AND NOTES

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.
LI-2.0

DATE: MARCH 31, 2023



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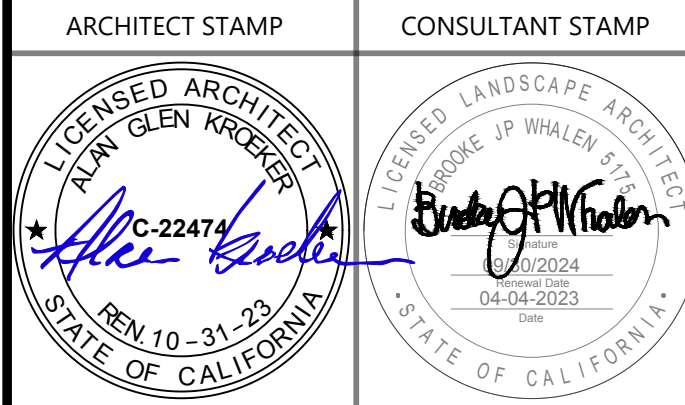
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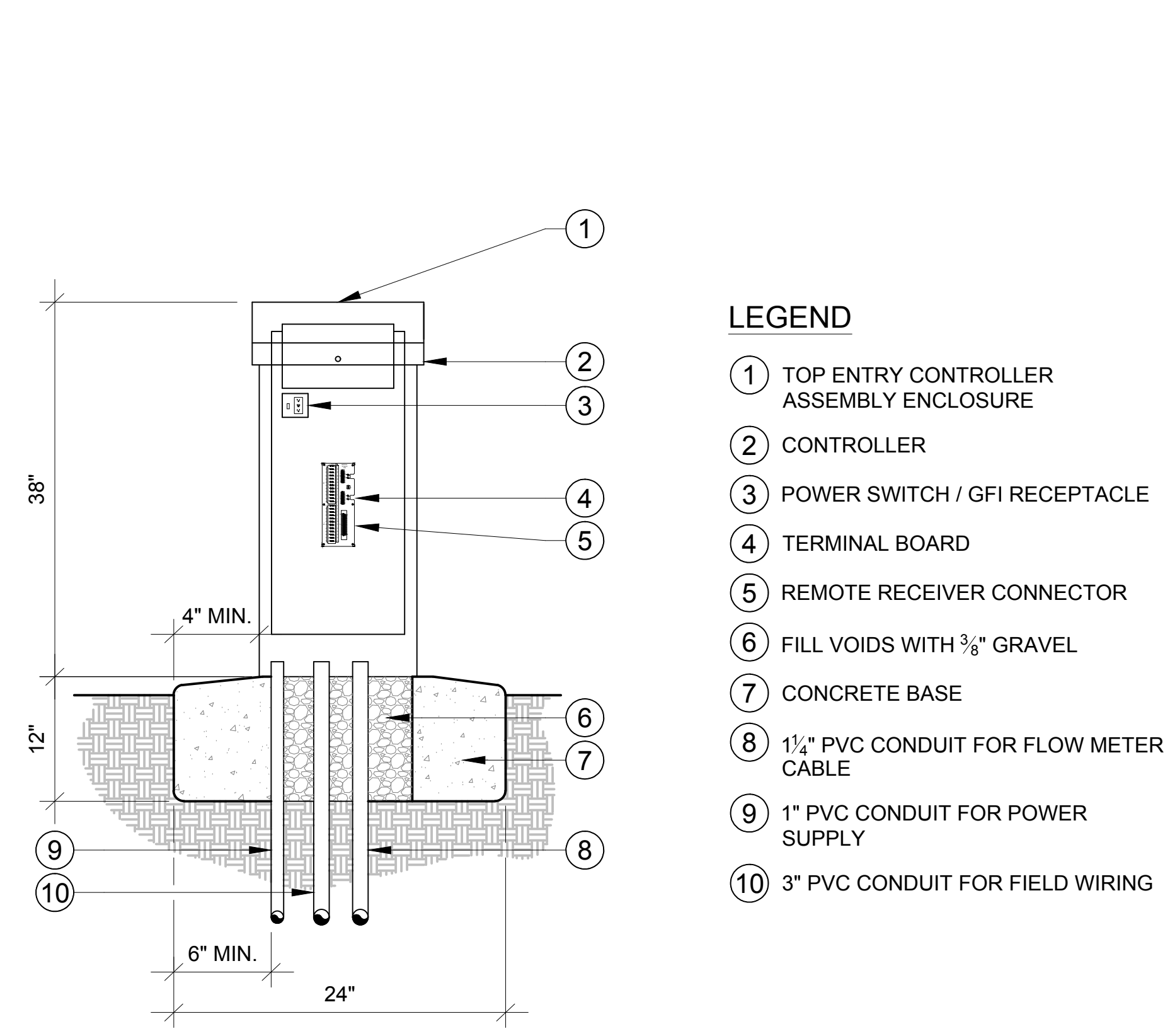
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SHEET TITLE

IRRIGATION DETAILS

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.
LI-3.0
DATE: MARCH 31, 2023



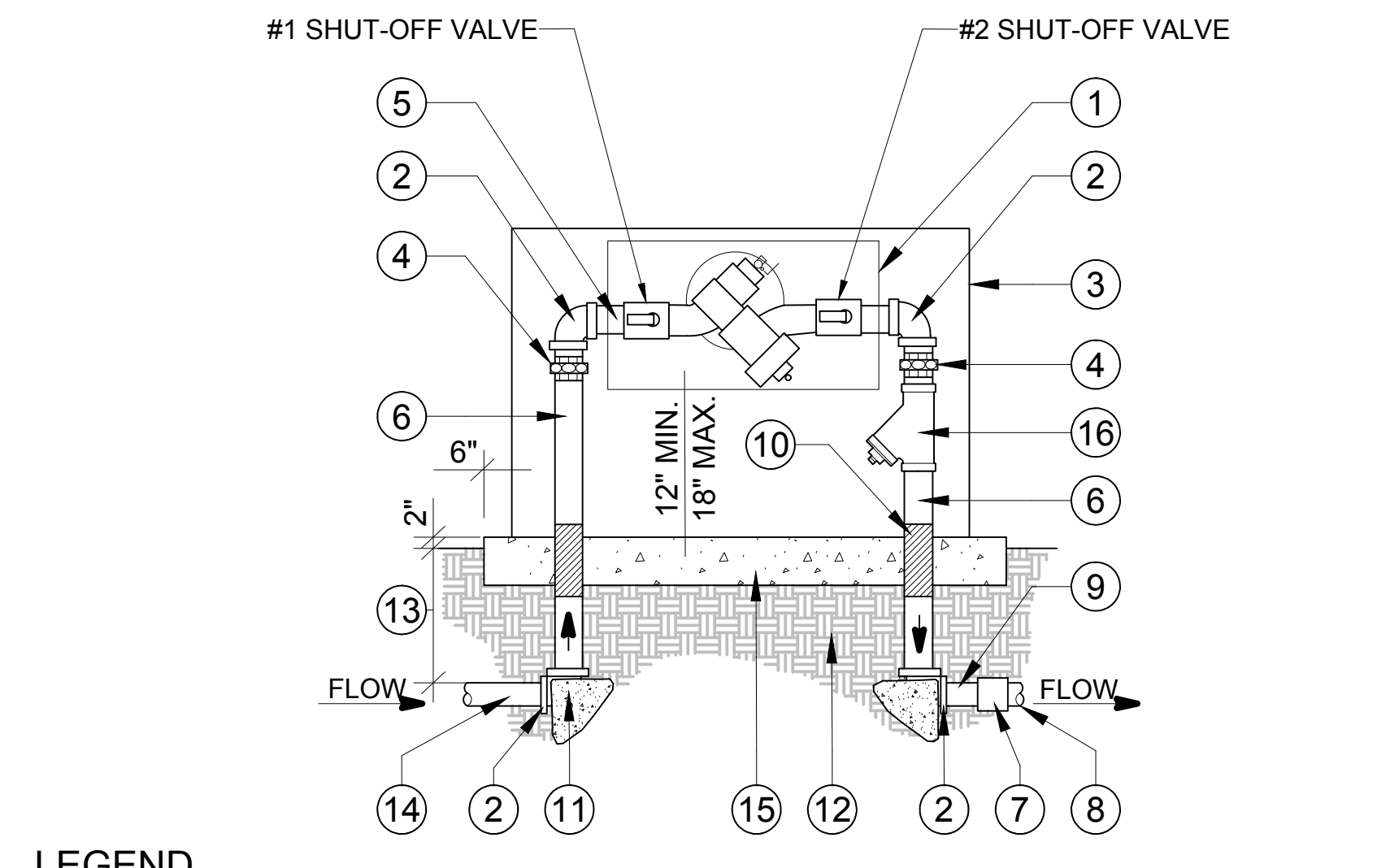
- LEGEND**
- ① TOP ENTRY CONTROLLER ASSEMBLY ENCLOSURE
 - ② CONTROLLER
 - ③ POWER SWITCH / GFI RECEPTACLE
 - ④ TERMINAL BOARD
 - ⑤ REMOTE RECEIVER CONNECTOR
 - ⑥ FILL VOIDS WITH 3/8" GRAVEL
 - ⑦ CONCRETE BASE
 - ⑧ 1 1/2" PVC CONDUIT FOR FLOW METER CABLE
 - ⑨ 1" PVC CONDUIT FOR POWER SUPPLY
 - ⑩ 3" PVC CONDUIT FOR FIELD WIRING

NOTES:

- A. PROVIDE SUFFICIENT ACCESS TO, AND CLEARANCE AROUND CONTROLLER, INCLUDING TOP DOOR CLEARANCE FROM ANY STRUCTURES.
- B. 110 VAC CONNECTION PER NATIONAL AND LOCAL ELECTRIC CODES.
- C. PROVIDE CAT 5 OR 6 IN CONDUIT FROM THE NEAREST ROUTER TO CONTROLLER; MAX. RUN SHALL BE 328 FT INCLUDING BENDS AND TWISTS.
- D. ENSURE LINE OF SIGHT TO EXISTING (MASTER) CALSENSE CONTROLLER AT VITICULTURE BUILDING TO THE SOUTH FOR RADIO CONNECTION AND PROVIDE CAPABILITY FOR FUTURE CELLULAR CONNECTION.

A SITE IRRIGATION CONTROLLER ASSEMBLY (PEDESTAL MOUNT) SECTION

SCALE: N.T.S.



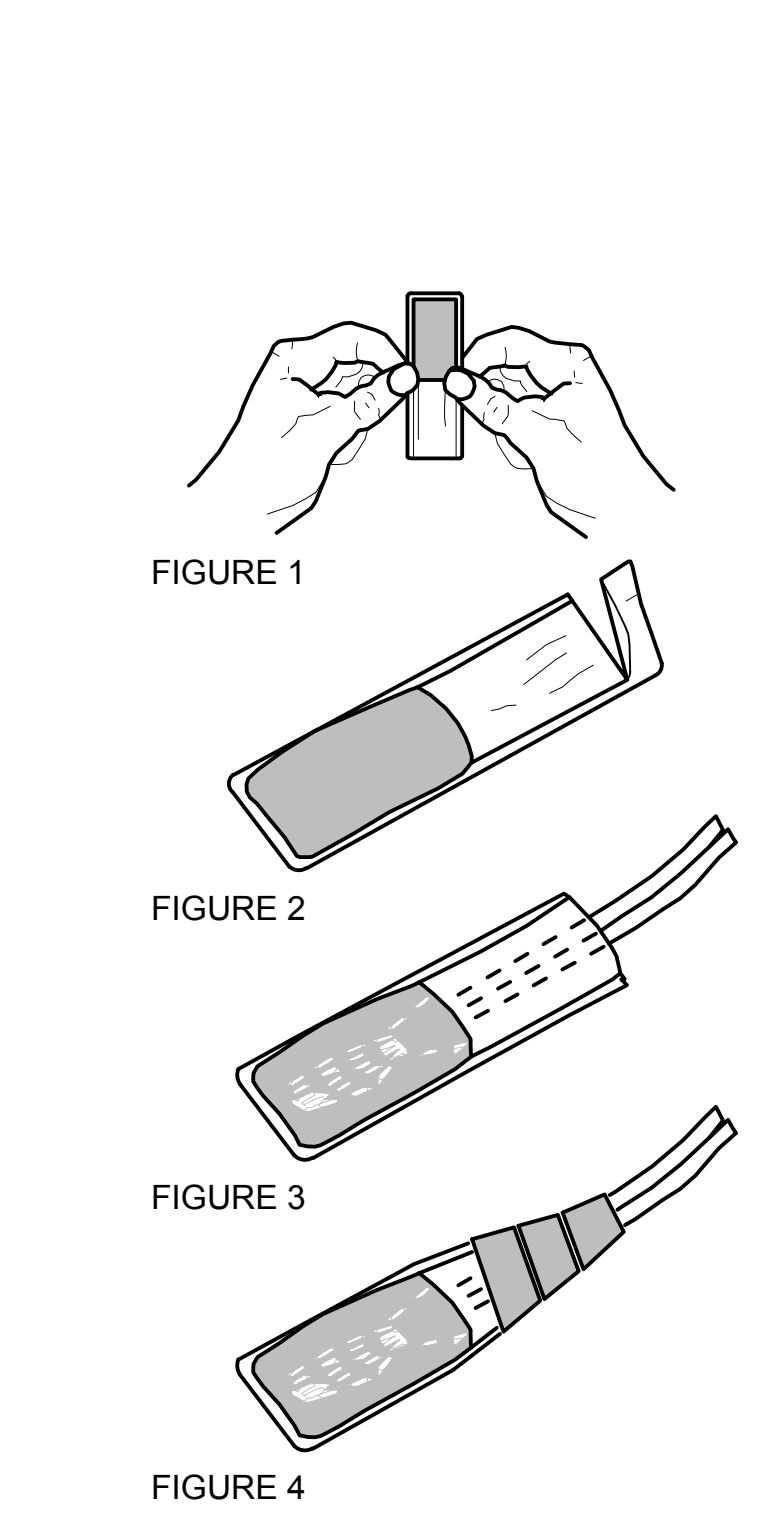
- LEGEND**
- ① BACKFLOW PREVENTER ASSEMBLY
 - ② COPPER ELL
 - ③ ENCLOSURE. REFER TO LEGEND
 - ④ BRASS UNION
 - ⑤ COPPER NIPPLE (3" LONG, TYP.)
 - ⑥ COPPER RISER (LENGTH AS REQUIRED)
 - ⑦ COPPER OR RED BRASS ADAPTER
 - ⑧ PRESSURE SUPPLY. COPPER OR RED BRASS
 - ⑨ 8" LONG COPPER NIPPLE
 - ⑩ BLACK ADHESIVE BACKED PVC TAPE
 - ⑪ 1 CU FT MIN. CONCRETE THRUST BLOCK FOR 2" ASSEMBLIES ONLY. (NOT REQUIRED ON ASSEMBLIES SMALLER THAN 2")
 - ⑫ COMPACTED SUBGRADE
 - ⑬ SEE TRENCH DETAILS FOR DEPTH
 - ⑭ COPPER PIPE FROM WATER SOURCE
 - ⑮ CONCRETE FOOTING (4" THICK)
 - ⑯ WYE-STRAINER

NOTES:

- 1. INSTALL BACKFLOW PREVENTION ASSEMBLY PER LOCAL WATER AGENCY REQUIREMENTS.
- 2. INSTALL ENCLOSURE TO SWING FREE AND CLEAR OF BACKFLOW PREVENTION ASSEMBLY.
- 3. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.
- 4. PROVIDE A MINIMUM 2 WRAPS OF BLACK ADHESIVE BACKED PVC TAPE, WITH 1/2" OVERLAP, TO ALL METAL PIPE AND FITTINGS EXPOSED TO CONCRETE.

B BACKFLOW PREVENTER ASSEMBLY SECTION

SCALE: N.T.S.

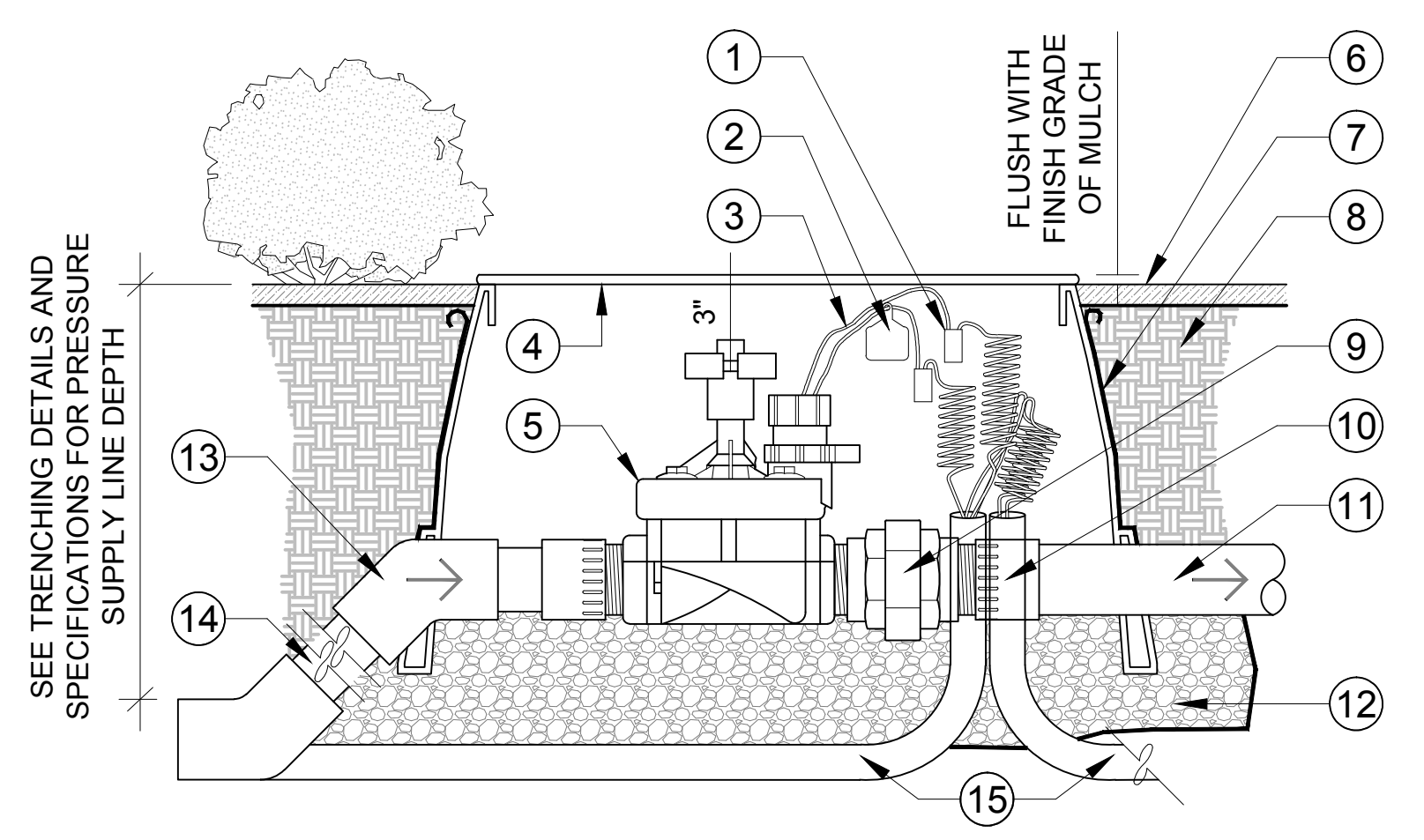


NOTE:

- A. THE 3M SCOTCHCAST CONNECTOR SEALING PACK 3570G-N SHOULD REMAIN SEALED IN THE GUARD BAG (WHILE ALUMINIZED BAG) UNTIL READY TO USE. IN COLD WEATHER, WARM CLOSED MIXING POUCH TO 50°F OR WARMER PRIOR TO MIXING. KEEP IN WARM AREA, SUCH AS TRUCK CAB OR INSIDE POCKET, UNTIL READY TO USE. PER MANUFACTURER'S INSTRUCTIONS.

C WIRE CONNECTOR SECTION

SCALE: N.T.S.



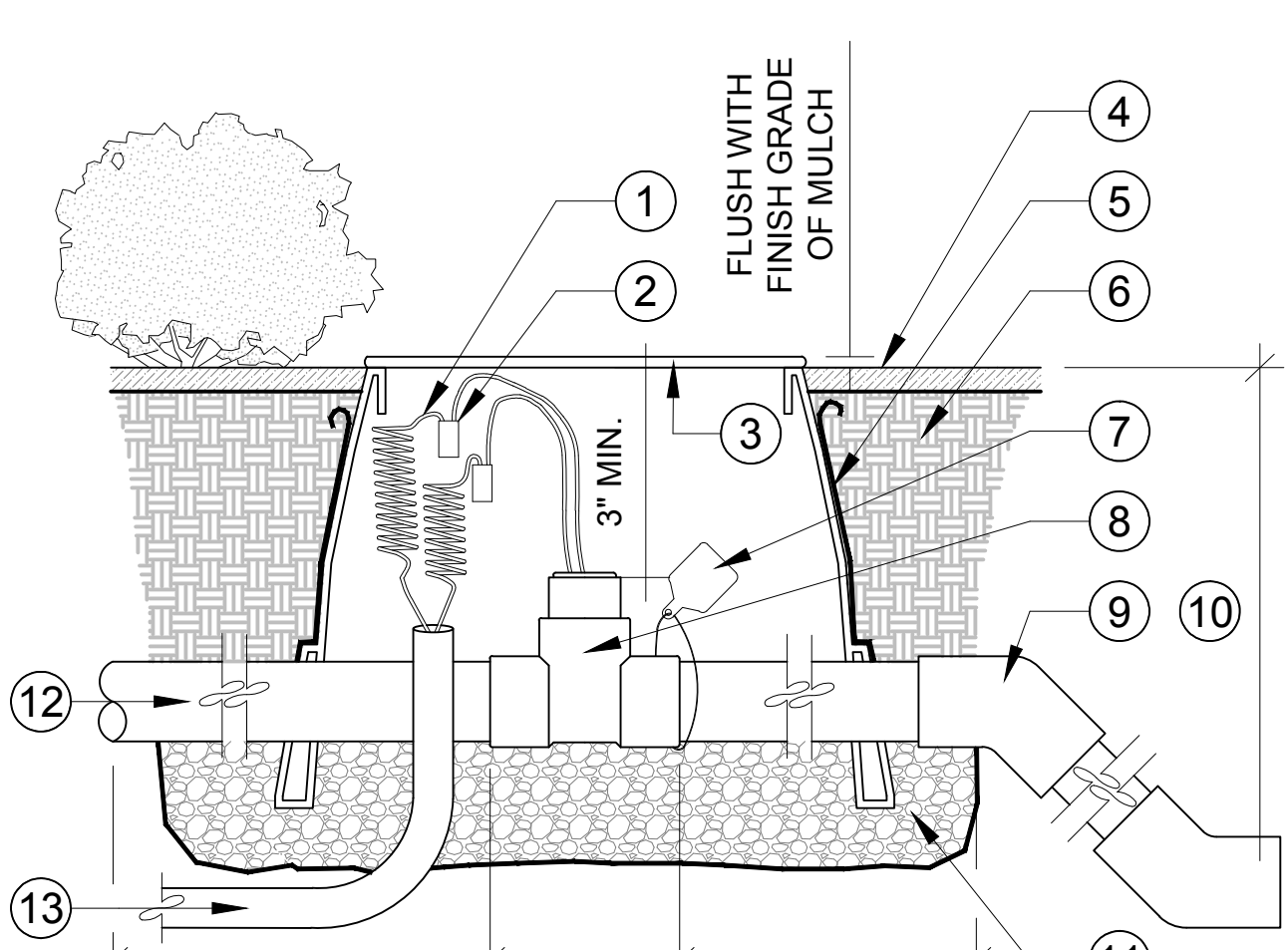
- LEGEND**
- ① WATERPROOF WIRE CONNECTOR
 - ② VALVE I.D. TAG. (THREAD NYLON TIE THROUGH HOLE IN TAG)
 - ③ CONTROL WIRE W/ 24" COILED EXPANSION LOOP
 - ④ RECTANGULAR VALVE BOX WITH LID. SEE SPECIFICATIONS (DO NOT CUT ADDITIONAL HOLES IN BOX)
 - ⑤ MASTER VALVE. REFER TO LEGEND
 - ⑥ FINISH GRADE OF MULCH
 - ⑦ FILTER FABRIC (MIRAFI #140N), WRAP 1 LAYER AROUND BOX, COVERING HOLES
 - ⑧ BACKFILL MATERIAL
 - ⑨ PVC SCH 80 SINGLE UNION, MIPT X FIPT MODEL
 - ⑩ PVC SCH 80 MALE ADAPTER, 2 REQUIRED.
 - ⑪ PRESSURE SUPPLY LINE TO FLOW SENSOR
 - ⑫ GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)
 - ⑬ PVC SCH 80 45 DEGREE ELL'S. (2) REQUIRED.
 - ⑭ PRESSURE SUPPLY LINE. SEE PLAN FOR SIZE.
 - ⑮ 1 1/4" PVC SCH 40 GREY CONDUIT (WITH SWEEP) FOR MASTER VALVE AND FLOW SENSOR WIRES. TO CONTROLLER (END OF SWEEPS TO BE MIN. 4" PAST TOP OF GRAVEL SUMP).

NOTE:

- A. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

D MASTER VALVE SECTION

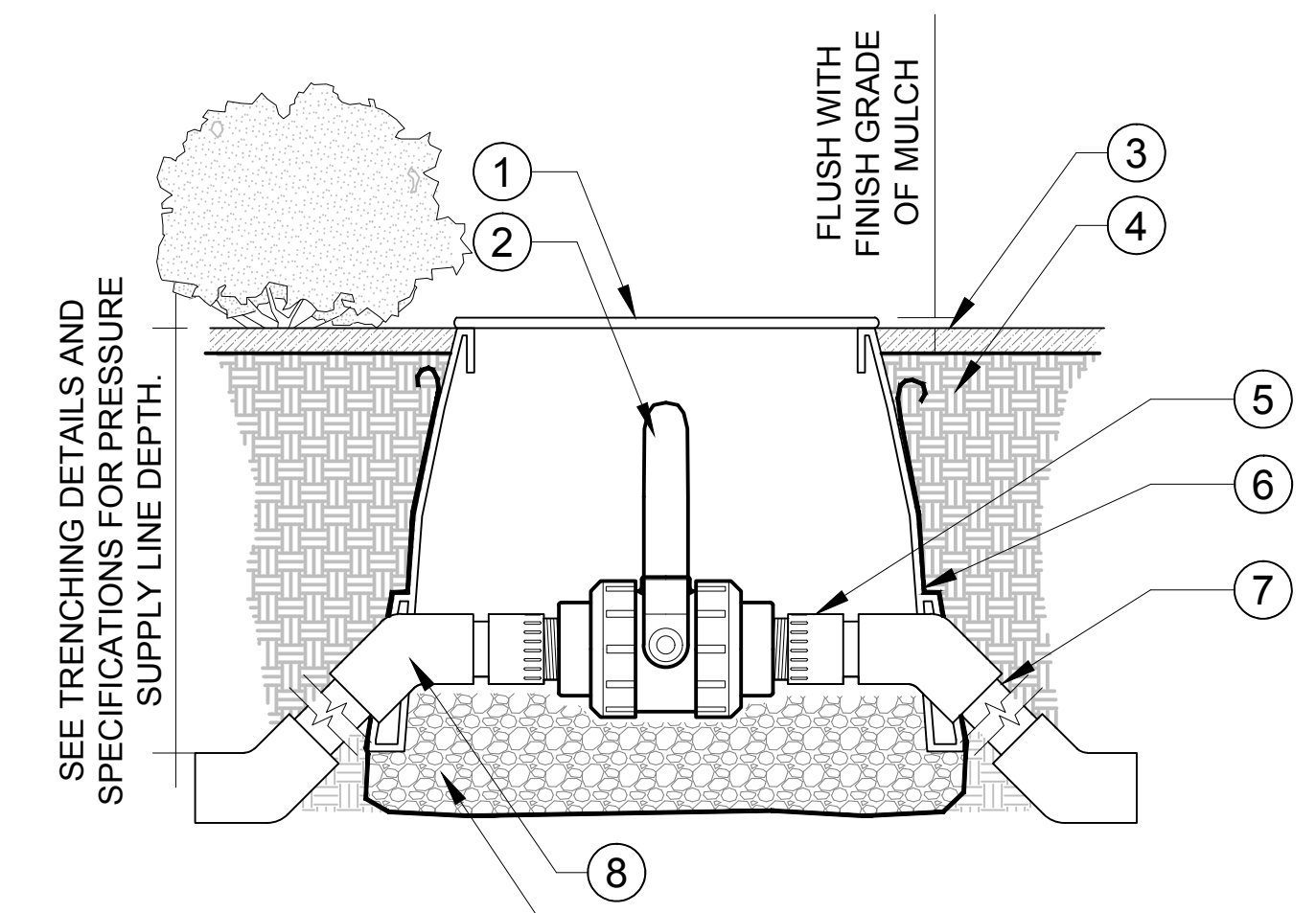
SCALE: N.T.S.



- LEGEND**
- ① CONTROL WIRE WITH 24" COILED EXPANSION LOOP
 - ② WATERPROOF WIRE CONNECTOR
 - ③ 10" DIA. ROUND VALVE BOX WITH LID. SEE SPECIFICATIONS (DO NOT CUT ADDITIONAL HOLES IN BOX)
 - ④ FINISH GRADE OF MULCH
 - ⑤ FILTER FABRIC (MIRAFI #140N), WRAP 1 LAYER AROUND BOX, COVERING HOLES
 - ⑥ BACKFILL MATERIAL
 - ⑦ WATER VALVE I.D. TAG. (THREAD NYLON TIE THROUGH HOLE IN TAG)
 - ⑧ FLOW METER. REFER TO LEGEND
 - ⑨ PVC SCH 80, 45 DEGREE ELL'S. (2) REQ'D
 - ⑩ SEE TRENCHING DETAILS AND SPECIFICATIONS FOR PRESSURE SUPPLY LINE DEPTH OF COVER.
 - ⑪ GRAVEL BASE AND SUMP (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF SENSOR)
 - ⑫ PRESSURE SUPPLY LINE FROM MASTER VALVE. SIZE AS NOTED ABOVE
 - ⑬ 1 1/4" PVC SCH 40 GREY CONDUIT (WITH SWEEP) FOR FLOW SENSOR WIRES, TO CONTROLLER. END OF SWEEP MIN. 4" ABOVE TOP OF GRAVEL SUMP.

E FLOW SENSOR SECTION

SCALE: N.T.S.



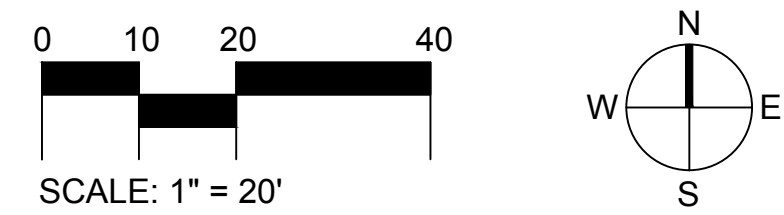
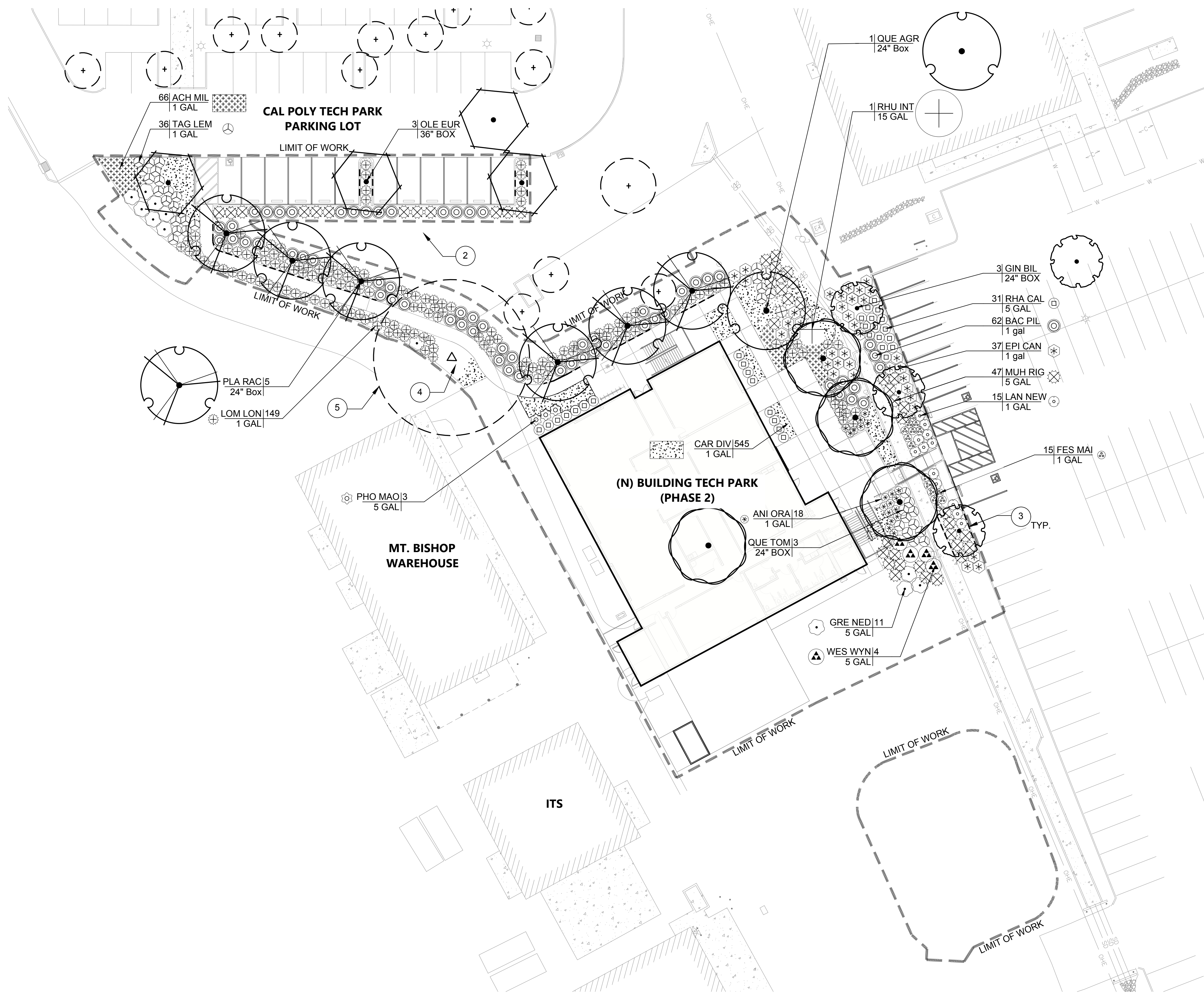
- LEGEND**
- ① 10" DIA. ROUND VALVE BOX WITH LID, SEE SPECIFICATIONS (DO NOT CUT ADDITIONAL HOLES IN BOX)
 - ② ISOLATION BALL VALVE. REFER TO LEGEND
 - ③ FINISH GRADE OF MULCH
 - ④ BACKFILL MATERIAL
 - ⑤ PVC SCH 80 MALE ADAPTER, MIPT X SLIP, LINE/VALVE SIZE
 - ⑥ FILTER FABRIC (MIRAFI #140N), WRAP 1 LAYER AROUND BOX, COVERING HOLES
 - ⑦ PRESSURE SUPPLY. LENGTH AS REQUIRED. REFER TO LEGEND FOR CLASS
 - ⑧ PVC SCH 80, 45 DEGREE ELL'S. (4) REQUIRED
 - ⑨ GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)

NOTE:

- 1. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

F ISOLATION BALL VALVE SECTION

SCALE: N.T.S.



KEYNOTES	
SYMBOL	DESCRIPTION
①	PROPOSED COMMUNICATIONS CONDUIT. REFER TO ARCHITECT'S SITE PLAN FOR FULL ALIGNMENT. REPAIR AND REPLACE PLANTING AND IRRIGATION ALONG ENTIRE EXTENT OF DISTURBED AREA.
②	REPAIR AND REPLACE EXISTING LANDSCAPE IN DISTURBED AREAS
③	CONTRACTOR SHALL INSTALL ROOT BARRIERS WHEN TREES ARE WITHIN 5 FT OF HARDSCAPE. REFER TO DETAIL A, SHEET LP-3.0.
④	CONTRACTOR SHALL INSTALL BARK MULCH IN ALL PLANTER AREAS.
⑤	EXISTING TREE TO REMAIN. CONTRACTOR SHALL PROTECT IN PLACE. REFER TO TREE PROTECTION NOTES ON SHEET LP-2.0

SHEET NOTES	
1.	REFER TO SHEET LP-2.0 FOR FULL PLANTING SCHEDULE.
2.	REFER TO SHEET LP-3.0 FOR PLANTING DETAILS.

SHADE CALCULATIONS			
AREA IDENTIFICATION	PROPOSED SHADED AREA	PROPOSED AREA	%SHADED
HARDSCAPE	2,459 SQ FT	7,694 SQ FT	31%
LANDSCAPE	6,050 SQ FT	8,863 SQ FT	68%
SURFACE PARKING	618 SQ FT	2,187 SQ FT	28%

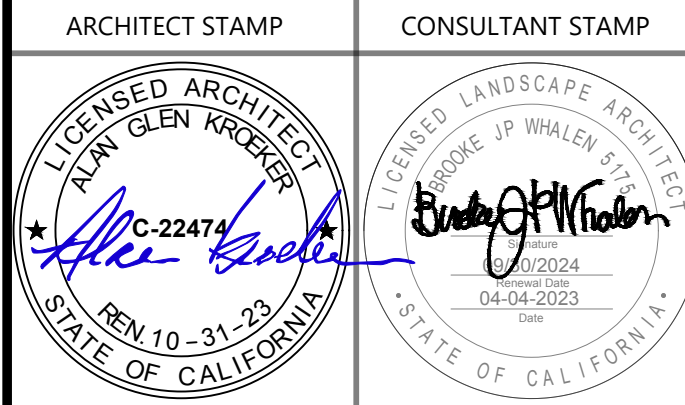


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NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

SHEET TITLE

PLANTING PLAN

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.
LP-1.0

DATE: MARCH 31, 2023

PLANTING NOTES

- ALL FINISH GRADING AND LANDSCAPE OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT DRAWINGS, DETAILS, PROJECT SPECIFICATIONS, AND WITH THE CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ALL PLANTING REQUIREMENTS.
- SEE SHEET LP-3.0 FOR PLANTING DETAILS. SEE LANDSCAPE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE CAL POLY PROJECT MANAGER AND THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CHANGED CONDITIONS WHICH OCCUR ON PROJECT SITE WHICH ARE NOT REFLECTED ON PLANS.
- REMOVE ALL WEEDS, DEBRIS, AND ROCKS LARGER THAN ONE-HALF-INCH (1/2") FROM ALL PLANTING AREAS, AND DISPOSE OF APPROPRIATELY OFF-SITE.
- FINISH GRADE OF SOIL SHALL BE THREE INCHES (3") BELOW ADJACENT FINISH PAVING SURFACE OR CURB IN SHRUB AND GROUND COVER AREAS.
- CONTRACTOR SHALL INSTALL A THREE - INCH (3") LAYER OF BARK MULCH IN ALL SHRUB AND GROUND COVER AREAS WITH SLOPES LESS THAN 3:1 GRADIENT. SUBMIT SAMPLE FOR APPROVAL BY CAL POLY PROJECT MANAGER AND LANDSCAPE ARCHITECT. REFER TO SPECIFICATIONS.
- ALL SLOPES 2:1 OR GREATER ARE TO BE STABILIZED WITH JUTE MESH PRIOR TO PLANTING. DO NOT INSTALL JUTE MESH ON SEEDED SLOPES. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE ELECTRONIC PHOTOGRAPHS OF ALL TREES FOR APPROVAL, PRIOR TO PURCHASE AND INSTALLATION. REFER TO SPECIFICATIONS.
- TREE LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. CONSULT WITH LANDSCAPE ARCHITECT OR CAL POLY PROJECT MANAGER PRIOR TO ADJUSTMENT OF TREE LOCATIONS.
- CONTRACTOR SHALL NOTIFY THE CAL POLY PROJECT MANAGER AT THE TIME OF DELIVERY OF ANY PLANT MATERIAL WHICH HAS BEEN DAMAGED OR IS IN POOR CONDITION. THE CAL POLY PROJECT MANAGER SHALL DETERMINE ACCEPTABILITY OF SUBJECT PLANT MATERIAL.
- PLANT MATERIAL SHALL BE INSPECTED BY THE CAL POLY PROJECT MANAGER BEFORE PLANTING. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY THE CAL POLY PROJECT MANAGER DUE TO POOR CONDITION, FORM, OR DAMAGE PRIOR TO, DURING, OR AFTER THE PLANTING PROCESS.
- AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE SHALL HAVE AN IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING BOTH COMMON AND SCIENTIFIC NAMES.
- THE PLANTING PLANS ARE DIAGRAMMATIC. PLANT MATERIALS SHALL BE SPOTTED AS SHOWN ON THE DRAWINGS. TREE LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE EXCAVATION OF PLANTING PITS AND REMOVAL FROM CONTAINERS. FINAL LAYOUT OF ALL OTHER PLANT MATERIALS SHALL BE APPROVED IN THE FIELD BY THE CAL POLY PROJECT MANAGER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON THE DRAWINGS AT THE SPECIFIED SPACING.
- TREES PLANTED IN TURF AREAS ARE TO HAVE A 3' DIAMETER SHOVEL CUT AROUND THE BASE OF TRUNK WITH 2" DEPTH BARK MULCH.
- NURSERY STAKES ARE TO BE REMOVED AFTER PLANTING TREES AND INSTALLATION OF STAKING OR GUYING, AS SHOWN ON PLANS.
- CONTRACTOR SHALL SUBMIT AN AGRICULTURAL SUITABILITY AND FERTILITY ANALYSIS REPORT, AS NOTED IN THE PLANTING SPECIFICATIONS, TO THE LANDSCAPE ARCHITECT AND THE CAL POLY PROJECT MANAGER FOR APPROVAL PRIOR TO ANY PLANTING WORK OR SOIL AMENDMENT INCORPORATION. THE RECOMMENDATIONS OF THE SOILS ANALYSIS REPORT FOR TOPSOIL AMENDMENT AND BACKFILL MIX AMENDMENT SHALL SUPERSEDE THE RECOMMENDATIONS LISTED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE LANDSCAPE WORK WITH THE WORK OF OTHER TRADES AND PROFESSIONS. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE DURING THE COURSE OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF EXISTING PROPOSED UTILITIES WITHIN THE PROJECT LIMITS WHICH MAY BE AFFECTED BY INSTALLATION. IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT IF A CONFLICT IS EVIDENT.
- REMOVE ALL TYING MATERIALS, MARKING TAPES, AND NURSERY STAKES AT THE TIME OF PLANTING.
- CONTRACTOR SHALL PROTECT EXISTING VEGETATION AND OTHER IMPROVEMENTS OUTSIDE THE LIMITS OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGES INCURRED DURING CONSTRUCTION.
- THE MAINTENANCE PERIOD SHALL BEGIN ONLY UPON WRITTEN ACCEPTANCE OF THE COMPLETED PLANTED AREAS BY THE LANDSCAPE ARCHITECT AND THE CAL POLY PROJECT MANAGER.
- PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIAL WITHIN EACH SPECIES AND SIZE DESIGNATED BY THE DRAWINGS.
- ALIGN AND EQUALLY SPACE, IN ALL DIRECTIONS, ALL PLANT MATERIAL WITHIN EACH SPECIES SO DESIGNATED PER THESE NOTES AND DRAWINGS.
- FURNISH ALL DELIVERY SLIPS OF THE SPECIFIED AMENDMENTS TO THE CONSTRUCTION MANAGEMENT SUPERVISOR AND LANDSCAPE ARCHITECT FOR REVIEW AFTER PLANT INSTALLATION. IF IT IS DETERMINED MORE AMOUNTS ARE NEEDED, CONTRACTOR WILL BE REQUIRED TO ADD INTO SOIL WITH OBSERVATION OR PROVIDE CREDIT BACK TO OWNER.
- ALL PLANTING AREAS SHALL BE GRADED TO HAVE POSITIVE DRAINAGE (2% MIN.) AWAY FROM THE BUILDING WALLS AND STRUCTURES AND TOWARDS AREA DRAINS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING LANDSCAPE WITHIN SCOPE AREA. ALL PLANTING WITHIN SCOPE OF WORK AREAS ARE TO BE KEPT FREE OF LITTER AND DEBRIS. ALL PLANTS SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. ALL DISEASED OR DEAD PLANTS SHALL BE REPLACED IMMEDIATELY. REPLACE PLANTINGS IF DAMAGED, WITH LIKE SIZE, DURING CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPLACEMENT OF ALL PLANTINGS AND TURF DAMAGED DURING IRRIGATION REPAIR OR PLANTING INSTALLATION.

MINIMUM TREE SEPARATION DISTANCE

IMPROVEMENT MINIMUM DISTANCE TO TREE	
UNDERGROUND UTILITY LINES	5 FEET
WET UTILITY LINES (SEWER, WATER, ETC.)	10 FEET
ABOVE GROUND UTILITY STRUCTURES (TRANSFORMERS, HYDRANTS, UTILITY POLES, ETC.)	10 FEET

PLANTING SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	WUCOLS	MIN. WIDTH	MIN. HEIGHT	REMARKS	DETAIL
	EXISTING TREE TO BE RETAINED	REFER TO DEMOLITION PLAN	REFER TO DEMOLITION PLAN	1	-	M	-	-	REFER TO TREE PROTECTION NOTES, THIS SHEET.	-
	OLE EUR	OLEA EUROPAEA 'SWAN HILL'	SWAN HILL OLIVE TREE	3	36" BOX	L	7'-9"	6'-7"	STANDARD TRUNK, GOOD COLOR, FULL HEAD, STRONG LEADER	
	GIN BIL	GINKGO BILOBA	MAIDENHAIR TREE	3	24" BOX	M	2'-4"	8'-10"	STANDARD TRUNK, GOOD COLOR, FULL HEAD, STRONG LEADER	
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	6	24" BOX	M	4'-5"	10'-12"	STANDARD TRUNK, GOOD COLOR, FULL HEAD, STRONG LEADER	B,C / LP-3.0
	QUE AGR	QUERCUS AGRIFOLIA	COAST LIVE OAK (MULTI-TRUNK)	1	48" BOX	VL	7'-8"	11'-14"	MULTI- TRUNK, GOOD COLOR, FULL HEAD	
	QUE TOM	QUERCUS TOMENTELLA	ISLAND LIVE OAK	3	24" BOX	L	3'-4"	8'-10"	STANDARD TRUNK, GOOD COLOR, FULL HEAD, STRONG LEADER	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	WUCOLS	MIN. WIDTH	MIN. HEIGHT	REMARKS	
	ANI GOL	ANIGOZANTHOS X 'ORANGE CROSS'	ORANGE KANGAROO PAW	18	1 GAL	L	4'-6"	6'-8"	FULL CLUMPS, GOOD COLOR	
	BAC PIL	BACCHARIS PILULARIS 'CENTENNIAL'	CENTENNIAL COYOTE BRUSH	62	1 GAL	L	6'-8"	4'-6"	FULL AND BUSHY TO THE GROUND, GOOD COLOR	
	EPI CAN	EPILOBIUM CANUM 'CATALINA'	CATALINA CALIFORNIA FUCHSIA	37	1 GAL	L	6'-8"	6'-8"	FULL CLUMPS, GOOD COLOR	
	FES MAI	FESTUCA MAIREI	ATLAS FESCUE	15	1 GAL	L	6'-8"	6'-8"	FULL CLUMPS, GOOD COLOR	
	GRE NED	GREVILLEA X 'NED KELLY'	NED KELLY GREVILLEA	16	5 GAL	L	16"-18"	18"-20"	FULL AND BUSHY, GOOD COLOR	
	LAN NEW	LANTANA X 'NEW GOLD'	NEW GOLD LANTANA	15	1 GAL	L	8"-10"	6'-8"	FULL AND BUSHY TO THE GROUND, GOOD COLOR	
	LOM LON	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE™ MAT RUSH	149	1 GAL	L	4'-6"	6'-8"	FULL CLUMPS, GOOD COLOR	E,F / LP-3.0
	MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	47	1 GAL	L	4'-6"	6'-8"	FULL CLUMPS, GOOD COLOR	
	PHO MAO	PHORMIUM X 'MAORI QUEEN'	MAORI QUEEN NEW ZEALAND FLAX	3	5 GAL	L	16"-18"	18"-20"	FULL CLUMPS, GOOD COLOR	
	RHA CAL	RHAMNUS CALIFORNICA 'LITTLE SUR'	LITTLE SUR COFFEE BERRY	31	5 GAL	L	16"-18"	18"-20"	FULL AND BUSHY, GOOD COLOR	
	RHU INT	RHUS INTEGRIFOLIA	LEMONADE BERRY	1	15 GAL	L	18"-24"	36"-42"	FULL AND BUSHY, GOOD COLOR	
	TAG LEM	TAGETES LEMMONII 'COMPACTA'	COMPACT COPPER CANYON DAISY	36	1 GAL	L	8"-10"	12"-14"	FULL AND BUSHY, GOOD COLOR	
	WES WYN	WESTRINGIA X 'WYNABBIE GEM'	WYNABBIE GEM COAST ROSEMARY	4	5 GAL	L	12"-18"	12"-18"	FULL AND BUSHY, GOOD COLOR	
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	QTY.	CONT	WUCOLS	MIN. WIDTH	MIN. HEIGHT	REMARKS	
	ACH MIL	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	66	1 GAL	L	6'-8"	6'-8"	FULL CLUMPS, GOOD COLOR	D / LP-3.0
	CAR DIV	CAREX DIVULSA	EUROPEAN GREY SEDGE	545	1 GAL	L	6'-8"	6'-8"	FULL CLUMPS, GOOD COLOR	D / LP-3.0

TREE PROTECTION NOTES

- THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR PREVENTING DAMAGE TO ALL EXISTING TREES TO REMAIN.
 - CONSTRUCTION AND MAINTENANCE STAFF SHALL AVOID UNNECESSARY ACTIVITIES WITHIN THE DRIPLINE OF ALL TREES.
 - FINES SHALL BE ASSESSED TO THOSE INDIVIDUALS FOUND TO BE RESPONSIBLE FOR THE ILLEGAL REMOVAL OR DAMAGE OF PROTECTED TREES.
- ANY DAMAGE OR INJURY TO TREES SHALL BE REPORTED WITHIN 24 HOURS TO THE LANDSCAPE ARCHITECT BY THE CONTRACTOR.
- EXISTING TREES TO REMAIN ON SITE WITHIN THE AREA OF WORK WILL BE PROTECTED IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING, IMPLEMENTING, AND MAINTAINING THE TREE PROTECTION ZONE AS SHOWN ON THESE PLANS DURING THE ENTIRE CONSTRUCTION PERIOD.
 - STAKE THE COMPLETE DRIP LINE.
 - ROOTS SHALL BE CLEANLY CUT BACK APPROX. 6" FROM THE LIMIT OF DISTURBANCE, UNLESS OTHERWISE DIRECTED BY A CERTIFIED CONSULTING ARBORIST.
 - INSTALL A TEMPORARY 6-FT HIGH CHAIN LINK FENCE AROUND THE IDENTIFIED DRIPLINE, UNLESS OTHERWISE DIRECTED BY A CERTIFIED CONSULTING ARBORIST.
 - ATTACH AN ORANGE OR YELLOW PROTECTIVE FENCE (MIN. 3' HIGH) TO THE CHAIN LINK FENCE.
 - WHEN AREAS UNDER THE TREE CANOPY CANNOT BE FENCED, ANOTHER METHOD SHALL BE REQUIRED, AS RECOMMENDED BY A CERTIFIED CONSULTING ARBORIST.
 - POST "KEEP OUT" SIGNS IN BOTH SPANISH AND ENGLISH TO THE CHAIN LINK FENCE.
 - PLACE STORY POLES WHERE PROPOSED BUILDING(S) AND TREE BRANCHES INTERFACE.
 - SUBMIT A TREE MAINTENANCE SCHEDULE PREPARED BY THE CONTRACTOR.
 - IF A TREE IS ADJACENT TO OR IN THE IMMEDIATE PROXIMITY TO A GRADE SLOPE OF 8% (23 DEGREES) OR MORE, PROVIDE ADEQUATE EROSION CONTROL (IE: JUTE MATTING OR EQ.).
- THE CONTRACTOR SHALL VERIFY IN WRITING TO THE OWNER THAT THE TREE PROTECTION ZONE HAS BEEN ESTABLISHED.
- THE OWNER/PERMITTEE SHALL SUBMIT THE CONTRACTOR'S VERIFICATION LETTER TO THE LANDSCAPE ARCHITECT BEFORE SCHEDULING A SITE INSPECTION.
- RESTRICTIONS WITHIN THE TREE PROTECTION ZONE TO BE MONITORED BY THE OWNER'S REPRESENTATIVE AS FOLLOWS:
 - TREE PRUNING OR ROOT PRUNING WILL ONLY OCCUR UNDER THE GUIDANCE OF A CERTIFIED CONSULTING ARBORIST WITH WRITTEN APPROVAL FROM THE OWNER.
 - PRUNING FOR VERTICAL CLEARANCE OF BUILDINGS, TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL BE PERFORMED BY A CERTIFIED CONSULTING ARBORIST ONLY.
 - CONSTRUCTION EQUIPMENT AND MATERIALS SUCH AS STOCKPILING OF SOIL, VEHICLE USE, FOOT TRAFFIC, UTILITY CONTAINERS, AND STORAGE OF ANY KIND, ARE PROHIBITED.
 - THE EXISTING GRADE SHALL NOT BE DISTURBED UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
 - ROOT SYSTEMS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE VARIATIONS IN SOIL MOISTURE BY CONSTRUCTION ACTIVITY.
- ANY MODIFICATIONS AND/OR ADDITIONS TO THE APPROVED TREE PROTECTION ZONE SHALL BE SUBMITTED BY THE CONTRACTOR WITH ADEQUATE INFORMATION TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
- ALL DAMAGED TREES SHALL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE.



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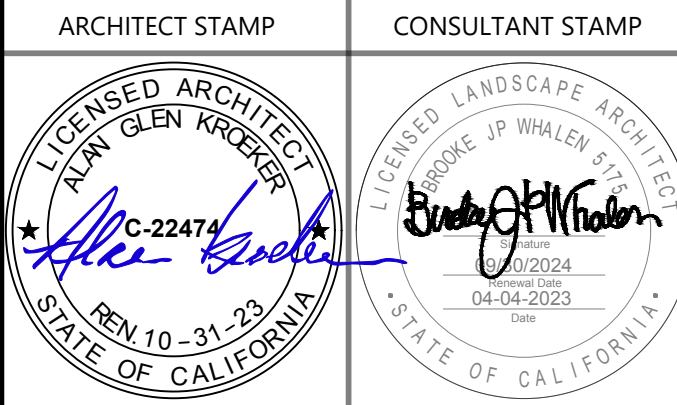
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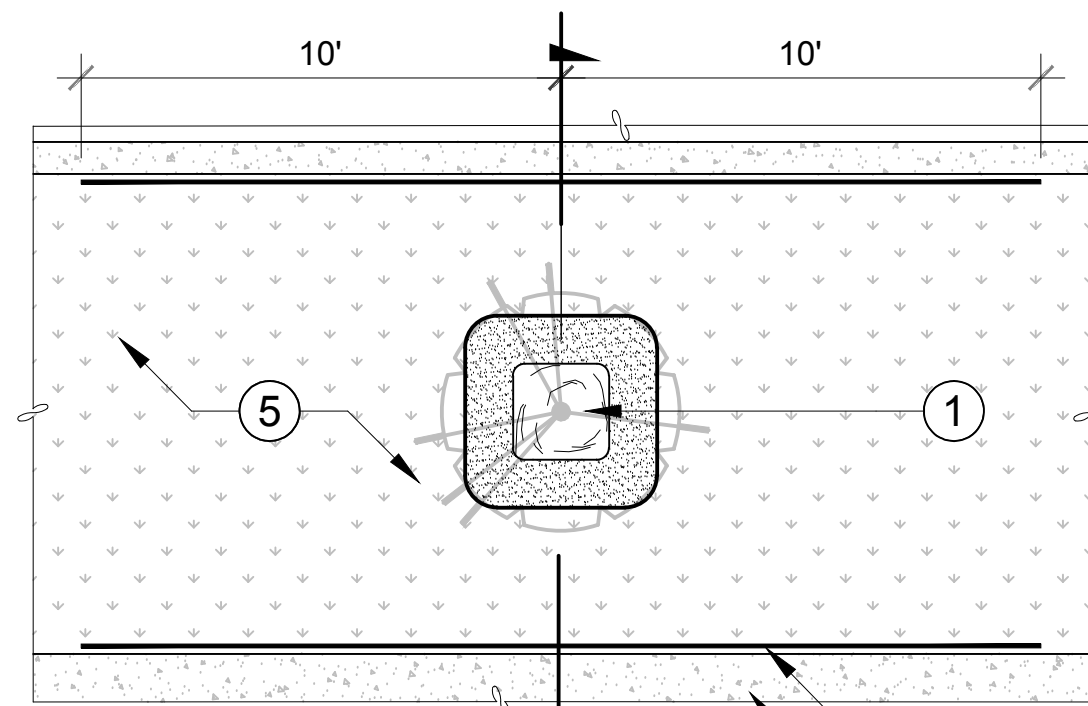
CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
PLANTING LEGEND AND NOTES

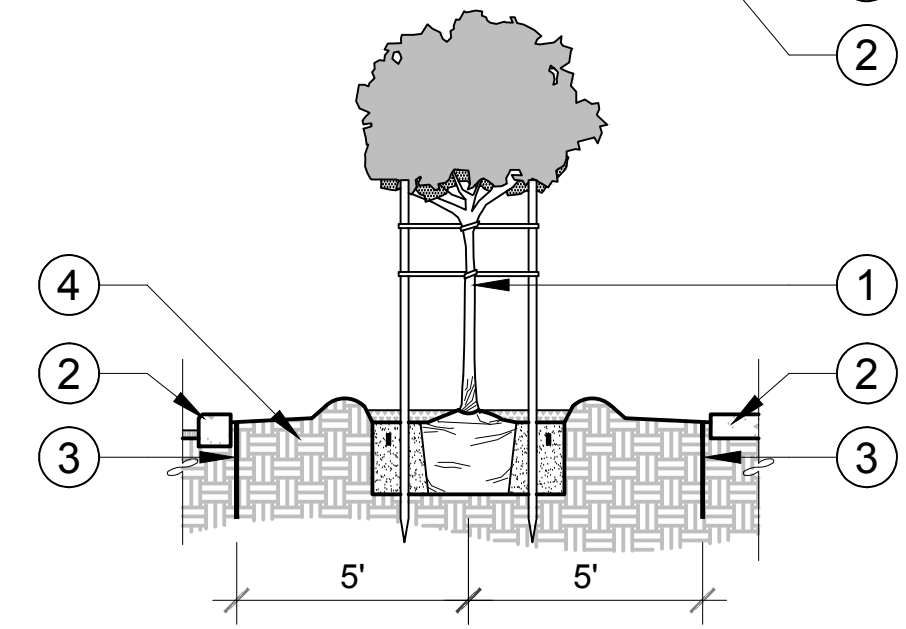
DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.

LP-2.0
DATE: MARCH 31, 2023



PLAN



SECTION

LEGEND

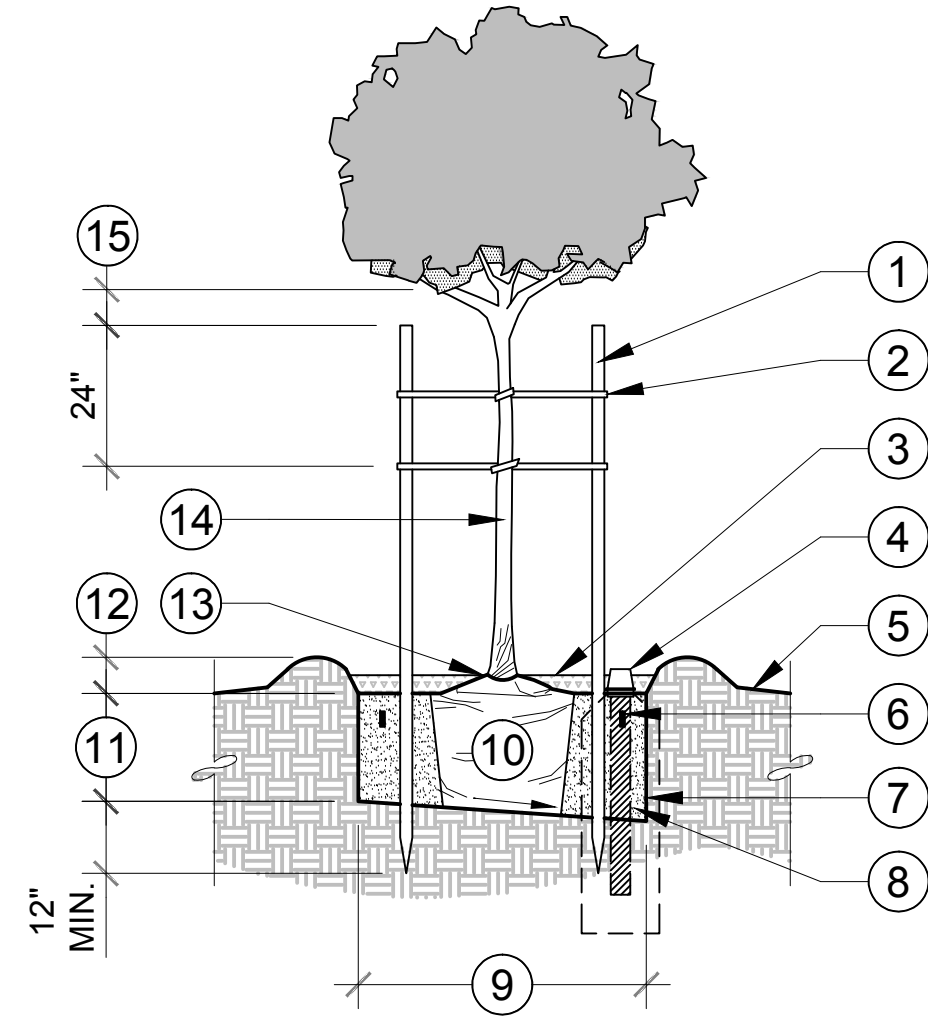
- 1 TREE PLANTING PER PLANTING LEGEND AND DETAILS
- 2 ADJACENT HARDSCAPE EDGE, FINISH GRADE OF PLANTING AREA TO BE 2" BELOW
- 3 ROOT BARRIER AS REQUIRED (SEE NOTES BELOW)
- 4 TOPSOIL AND SUBGRADE PER CIVIL PLANS
- 5 ADJACENT GROUNDCOVER OR SHRUB PLANTING

NOTES:

- A. ROOT BARRIERS SHALL BE INSTALLED WHEN TREES ARE WITHIN 5' OF HARDSCAPE UNLESS NOTED OTHERWISE.
- B. WHERE POSSIBLE INSTALL 10' EACH SIDE OF TRUNK MEASURED PARALLEL TO HARDSCAPE X 24" DEEP.
- C. INSTALL PARALLEL TO WALKS & CURBS.
- D. DO NOT ENCIRCLE TREE IF POSSIBLE.
- E. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

A ROOT BARRIER AT TREE PLANTING

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



NOTES:

- A. REFER TO SPECIFICATIONS FOR PLANTING PROCEDURES AND ADDITIONAL INFORMATION.
- B. REMOVE FROM BOX WITH AS LITTLE DISTURBANCE TO THE ROOTBALL AS POSSIBLE.

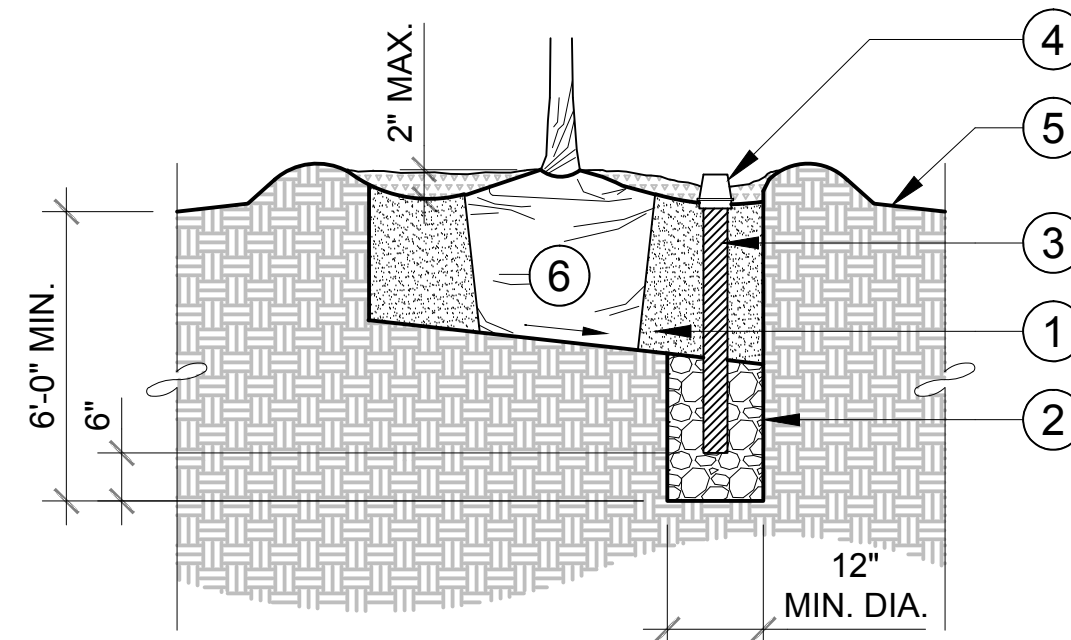
B TREE PLANTING WITH DOUBLE STAKING AND OBSERVATION TUBE SECTION

NOT TO SCALE

LEGEND

- 1 WOOD STAKE (SEE SPECIFICATIONS)
- 2 TREE TIE (MIN. 4 REQUIRED, NAIL TO STAKE)
- 3 MULCH, REFER TO SPECIFICATIONS AND PLANTING NOTES FOR DEPTH AND TYPE
- 4 SEE TREE OBSERVATION TUBE DETAIL
- 5 FINISH GRADE
- 6 PLANT TABLETS (3" BELOW GRADE)
- 7 PLANTING PIT W/ ROUGHENED SIDES
- 8 BACKFILL MIX (PUDDLE AND SETTLE)
- 9 2x ROOTBALL DIAMETER MIN.
- 10 ROOTBALL
- 11 DEPTH OF ROOTBALL
- 12 6" WATERING BASIN (EXCEPT IN LAWN)
- 13 TREE COLLAR (PLANT PER SPECS.)
- 14 TREE TRUNK
- 15 CUT ALL STAKES 6" BELOW TREE CANOPY

PLAN



SECTION

C TREE OBSERVATION TUBE SECTION

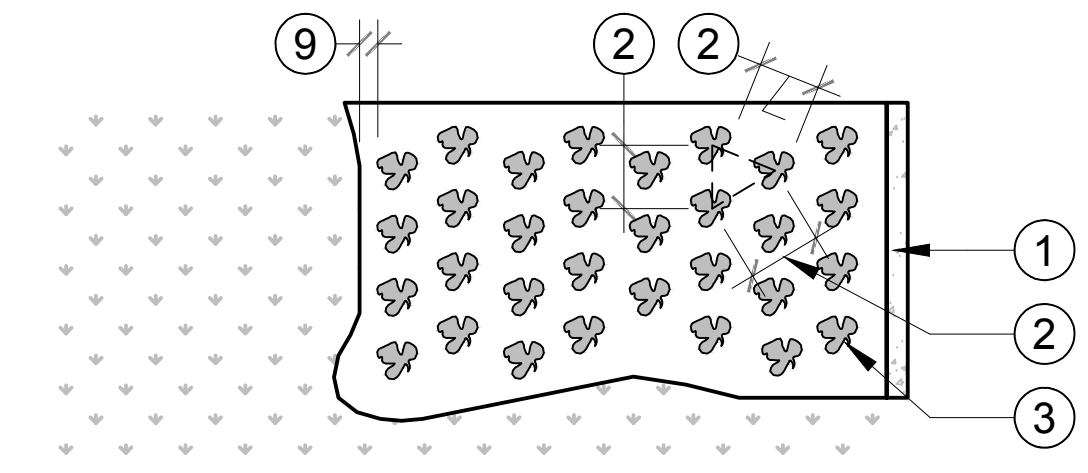
NOT TO SCALE

LEGEND

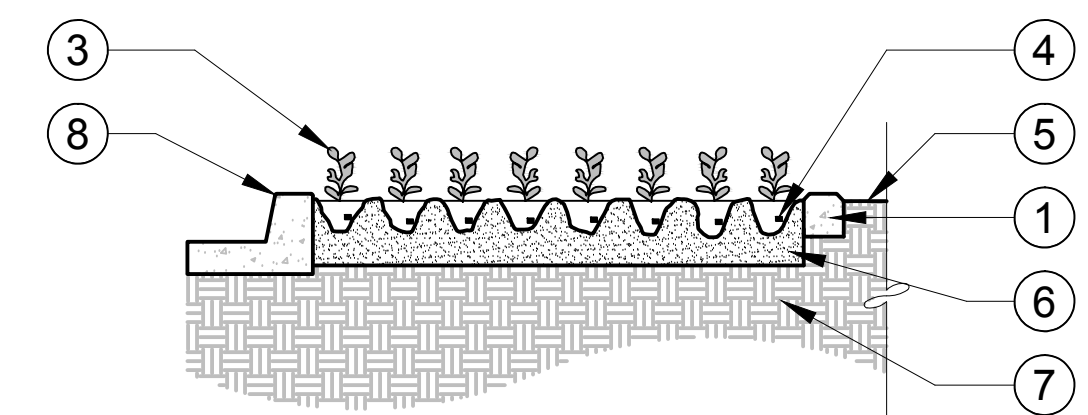
- 1 BACKFILL MIX
- 2 GRAVEL FILL AROUND PIPE
- 3 4" DIA PERFORATED PIPE WITH FILTER SOCK (LENGTH AS REQUIRED)
- 4 PLASTIC ATRIUM DRAIN GRATE
- 5 FINISH GRADE
- 6 UNDISTURBED ROOTBALL

NOTES:

- A. EXTEND PERFORATED PIPE BELOW BOTTOM OF ROOTBALL. SLANT BOTTOM OF PLANTER PIT TO ALLOW ACCUMULATED WATER TO COLLECT AT BASE OF PERFORATED PIPE. SIPHON OFF AS REQUIRED TO PREVENT ROOT ROT.
- B. DO NOT FILL PERFORATED PIPE WITH GRAVEL.



PLAN



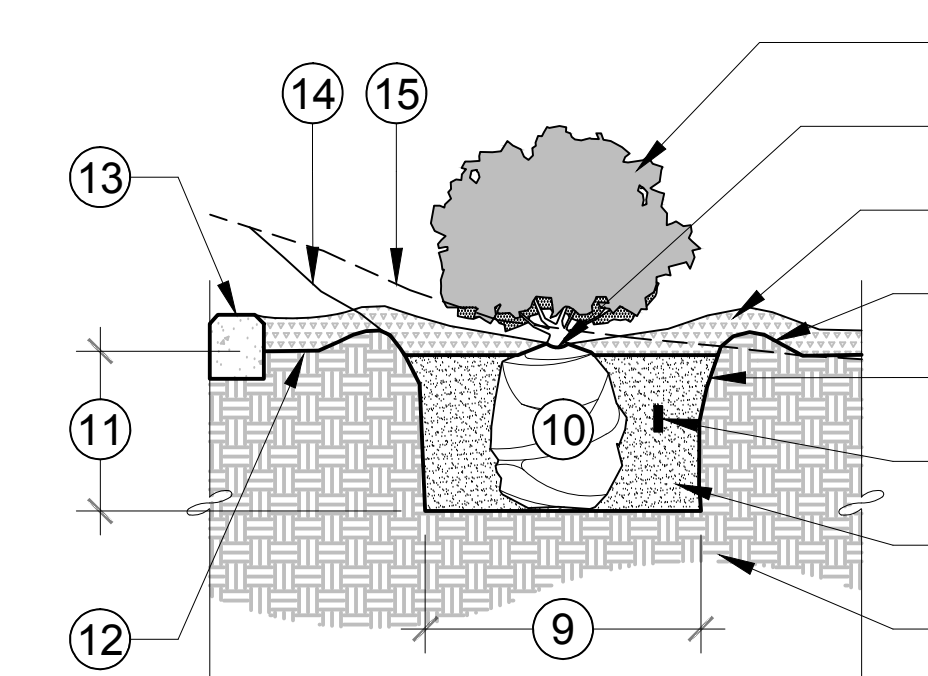
SECTION

LEGEND

- 1 EDGE OF PAVING
- 2 EQUAL, SEE PLANTING PLAN AND LEGEND FOR SPACING
- 3 GROUNDCOVER
- 4 PLANT TABLET (1" MIN. AWAY FROM ROOTS)
- 5 FINISH GRADE
- 6 PREPARE SOIL THROUGHOUT PLANTING AREA
- 7 SUBGRADE PER CIVIL PLANS
- 8 SET FINISH GRADE EQUAL TO THE DEPTH OF BARK MULCH BELOW FINISH SURFACE OF PAVING
- 9 1/2 OF SPACING DISTANCE AT ALL EDGES

D GROUNDCOVER PLANTING TRIANGULAR

NOT TO SCALE



NOTES:

- FOR NATIVE SHRUBS:
- A. SET NATIVE SHRUB CROWN 2" ABOVE FINISH GRADE WITH A 2" WATERING BERM.
 - B. SEE LANDSCAPE SPECIFICATIONS FOR NATIVE PLANT INSTALLATION PROCEDURES AND ADDITIONAL INFORMATION.
 - C. PLANT SHOULD BE REMOVED FROM POT WITH AS LITTLE DISTURBANCE TO THE ROOTBALL AS POSSIBLE.

E SHRUB PLANTING SECTION

NOT TO SCALE

LEGEND

- 1 SHRUB
- 2 SHRUB CROWN (1" ABOVE FINISH GRADE)
- 3 MULCH, REFER TO SPECS. & PLANTING NOTES FOR DEPTH & TYPE
- 4 4" HIGH WATERING BERM ALL AROUND
- 5 PLANT PIT W/ ROUGHENED SIDES
- 6 PLANT TABLETS (3" BELOW GRADE)
- 7 BACKFILL MIX (PUDDLE & SETTLE)
- 8 TOPSOIL AND SUBGRADE PER CIVIL PLANS
- 9 2X ROOTBALL DIAMETER MIN.
- 10 ROOTBALL
- 11 DEPTH OF ROOTBALL
- 12 SET FINISH GRADE EQUAL TO THE DEPTH OF BARK MULCH BELOW FINISH SURFACE OF PAVING (WHERE APPLICABLE)
- 13 CURB OR PAVING (WHERE APPLICABLE)
- 14 NEW FINISH GRADE AT SLOPE (WHERE APPLICABLE)
- 15 EXISTING FINISH GRADE AT SLOPE (WHERE APPLICABLE)



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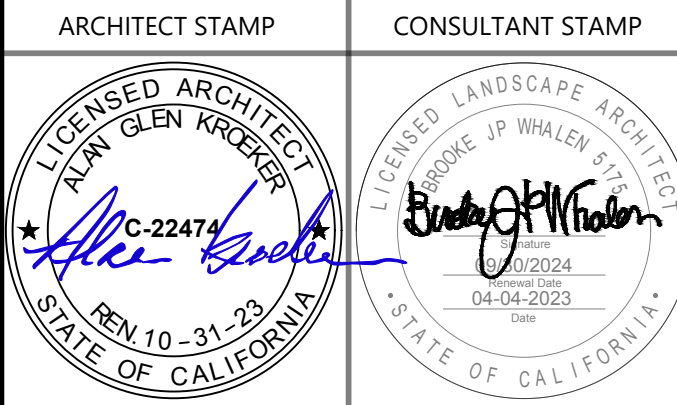
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CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

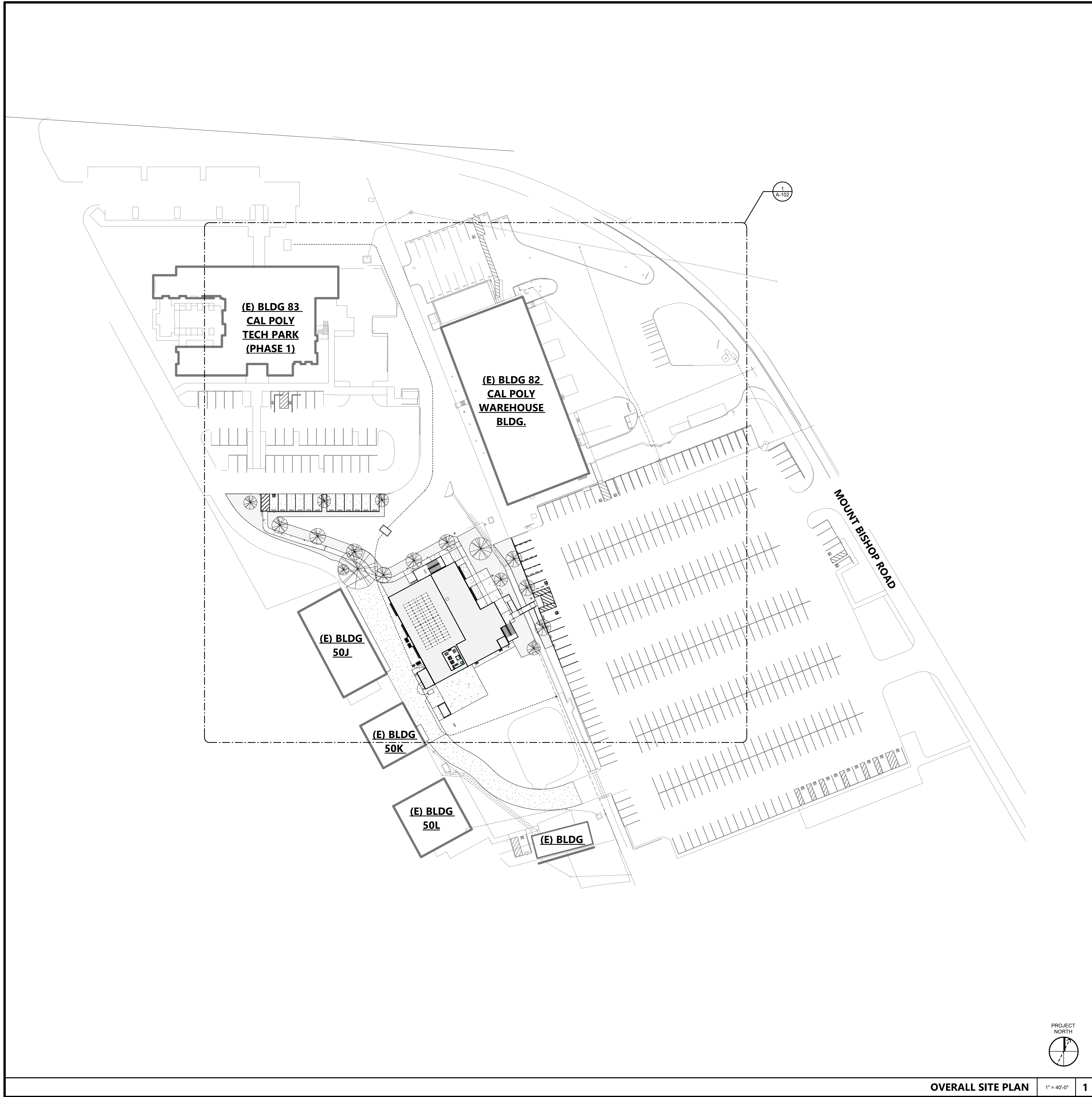
SHEET TITLE

PLANTING DETAILS

DRAWN BY: JOB NUMBER: 21179.01
SHEET NO.

LP-3.0
DATE: MARCH 31, 2023

DATE PLOTTED: 4/13/2023 2:19:38 PM FILE LOCATION: C:\Users\parmentrout\Documents\21179.01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt

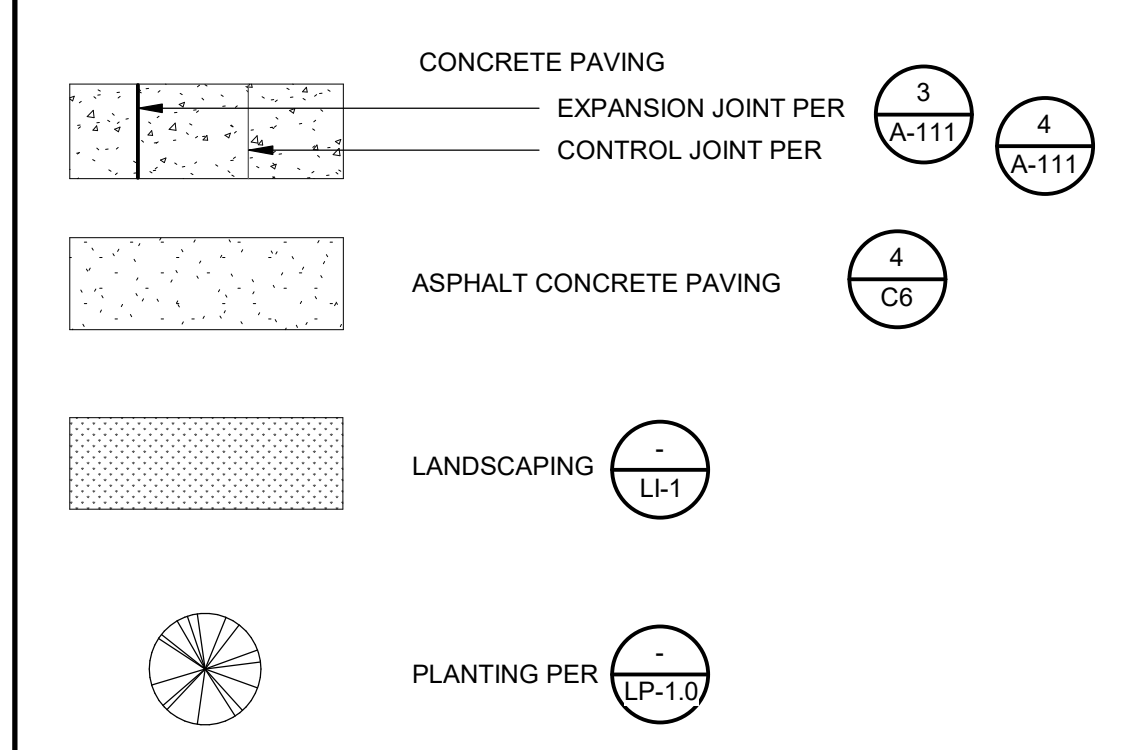


OVERALL SITE PLAN 1" = 40'-0" 1

KEYNOTES

KEYNOTES

SITE PLAN LEGEND



SITE PLAN GENERAL NOTES

- SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITIES.

AGENCY APPROVAL DSAE 03-122864

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 CALIFORNIA STATE FIRE MARSHAL
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 Approved by: *DS* 07/18/2023
 CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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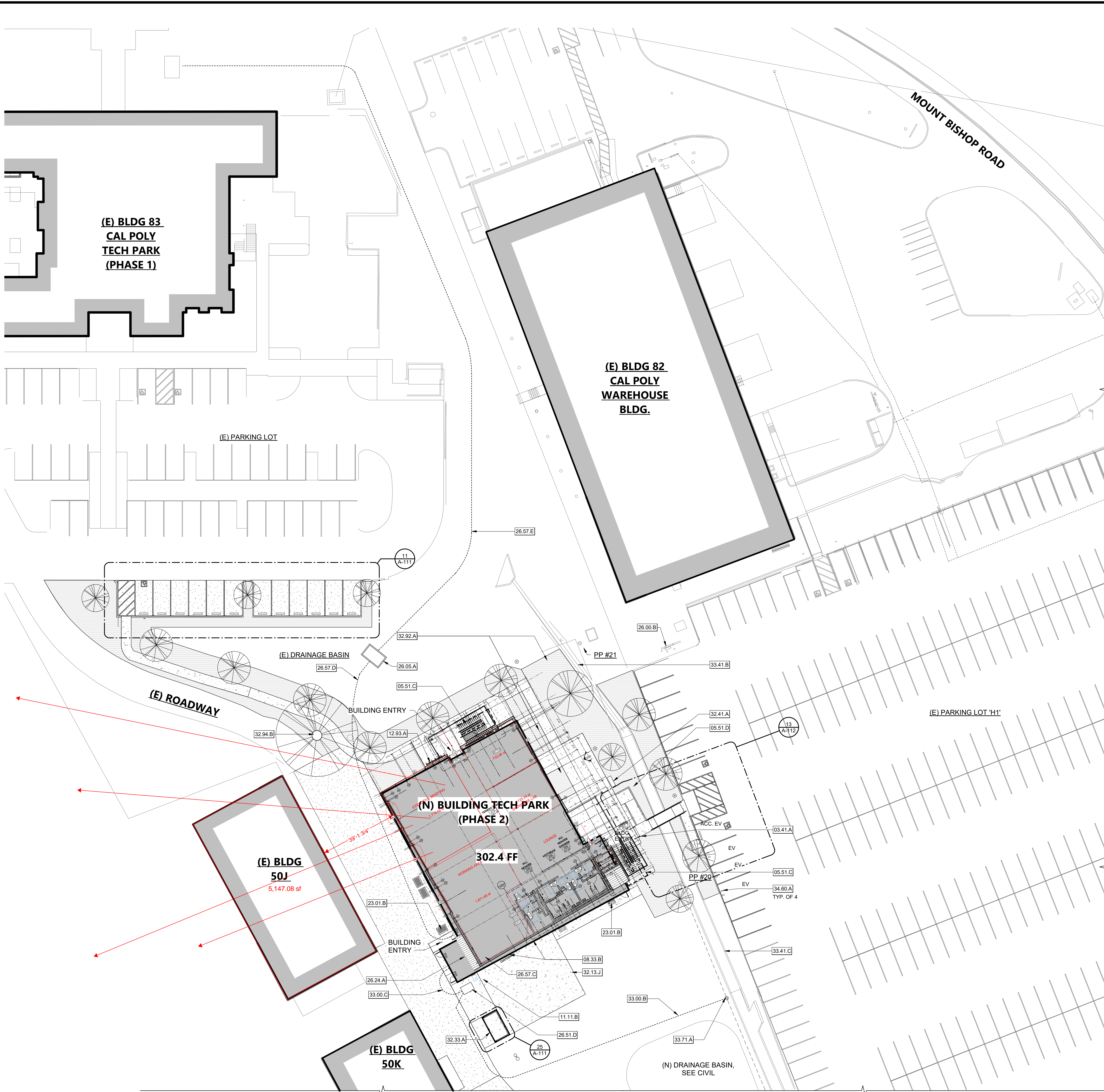
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OVERALL SITE PLAN

DRAWN BY: XX JOB NUMBER: 21179.01
 SHEET NO.

A-101
 DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\parmentrout\Documents\21179.01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt
 DATE PLOTTED: 5/23/2023 5:23:24 PM



KEYNOTES

- 03.41.A CONCRETE STAIR, ONE RISER
- 05.51.C METAL STAIRCASE WITH CONCRETE FILLED STEEL PAN TREADS
- 05.51.D ACCESS RAMP WITH HANDRAILS
- 08.33.B TWO (2) ROLL UP DOORS, PER FLOOR PLAN
- 11.11.B CART CHARGING AREA
- 12.93.A BIKE RACKS PER SPECIFICATION SECTION 12.93.13
- 23.01.B OUTDOOR MECHANICAL UNIT(S) - REFER TO MECHANICAL DRAWINGS
- 26.00.B (E) CP CORP FOOD TRUCK PEDESTAL #2
- 26.05.A COMMUNICATION PULLBOX
- 26.24.A 1600A 208Y-230V SERVICE BOARD NEMA 1
- 26.51.D 300 KVA PAD-MOUNTED TRANSFORMER
- 26.57.C (3) 4" CONDUIT STUB-UPS
- 26.57.D (3) 4" CONDUIT TO TELECOM ROOM
- 26.57.E (5) 4" CONDUIT (COMMUNICATIONS) TO (N) COMM. PULLBOX FROM (E) COMM. PULLBOX
- 32.13.J CONCRETE SIDEWALK
- 32.33.A TRASH ENCLOSURE
- 32.41.A CONCRETE MONUMENTAL SIGN, PER DETAIL 20/A-112. PROVIDE LIGHTING.
- 32.92.A LANDSCAPE AREA, REFER TO LANDSCAPE DRAWINGS
- 32.92.B (E) SYCAMORE TREE TO REMAIN - PROTECT IN PLACE
- 33.00.B UNDERGROUND PRIMARY ELECTRICAL FEED
- 33.00.C UNDERGROUND SECONDARY ELECTRICAL FEED
- 33.41.B (E) UNDERGROUND STORM DRAIN LINES
- 33.41.C (E) DRAINAGE CHANNEL TO REMAIN
- 33.71.A POWER POLE
- 34.60.A FUTURE ELECTRIC VEHICLE CHARGING STATIONS

AGENCY APPROVAL **CSU** 03-122884

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SITE PLAN LEGEND

- CONCRETE PAVING
- EXPANSION JOINT PER 3/A-111
- CONTROL JOINT PER 4/A-111
- ASPHALT CONCRETE PAVING 4/C6
- LANDSCAPING -/LL-1
- PLANTING PER -/LP-1.0

ARCHITECT STAMP

CONSULTANT STAMP

LICENSED ARCHITECT
PAT GLEN WHEELER
C-22474
REV 10-31-23
STATE OF CALIFORNIA

REVISIONS

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SHEET TITLE

ENLARGED SITE PLAN

DRAWN BY: MB JOB NUMBER: 21179.01

SHEET NO.

A-102

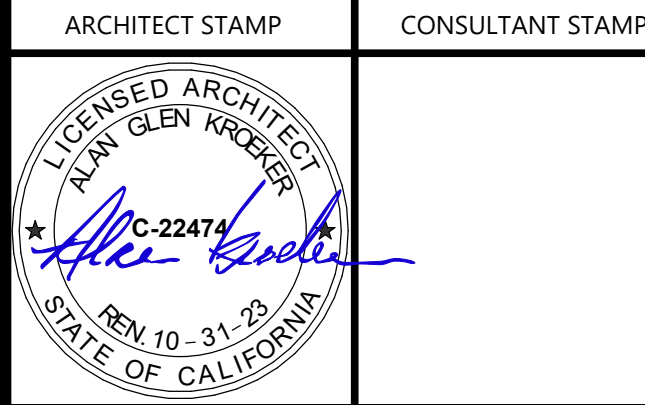
DATE: MARCH 31, 2023

OVERALL SITE PLAN 1" = 20'-0" 1

CONSTRUCTION DOCUMENTS



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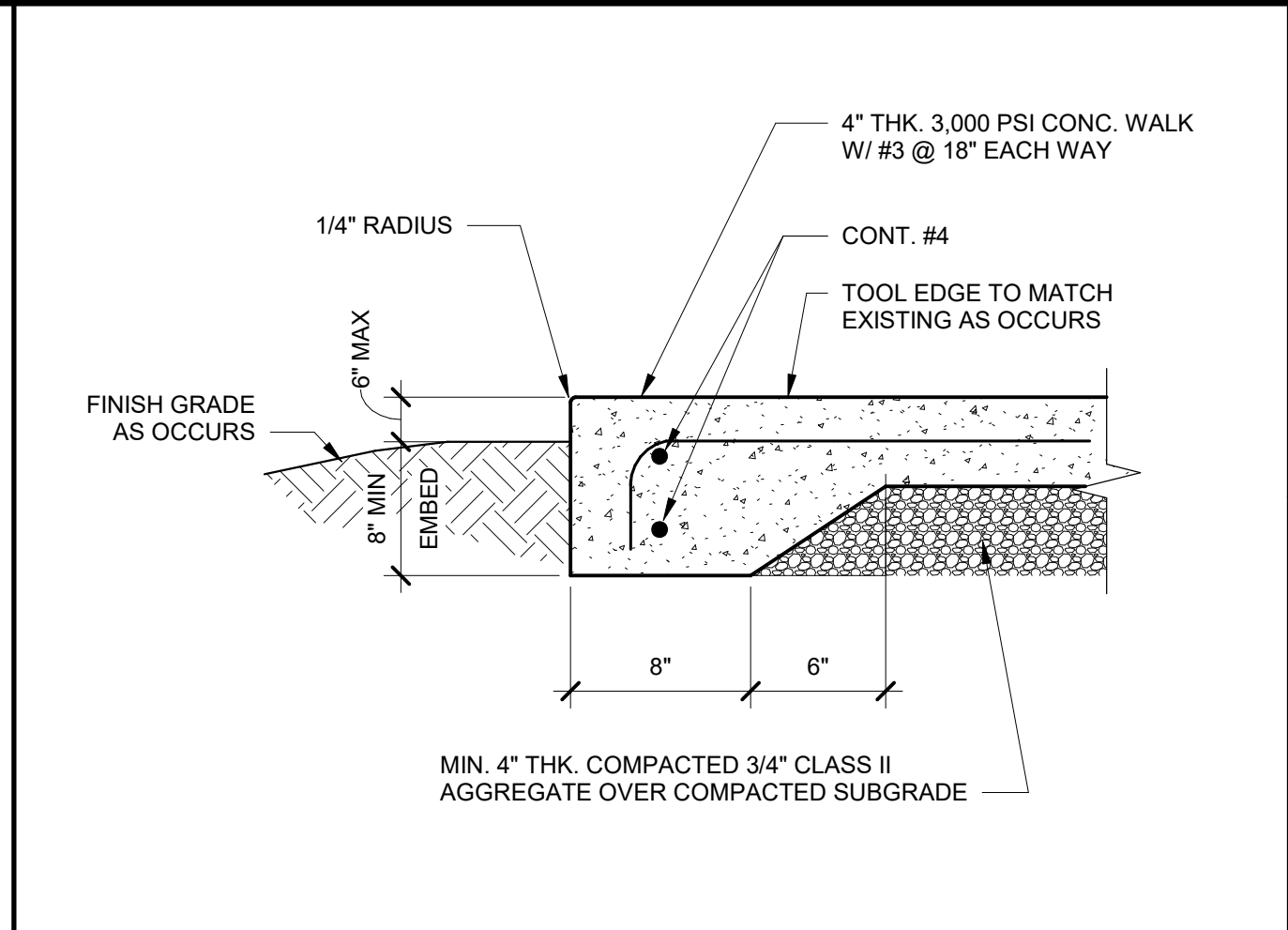
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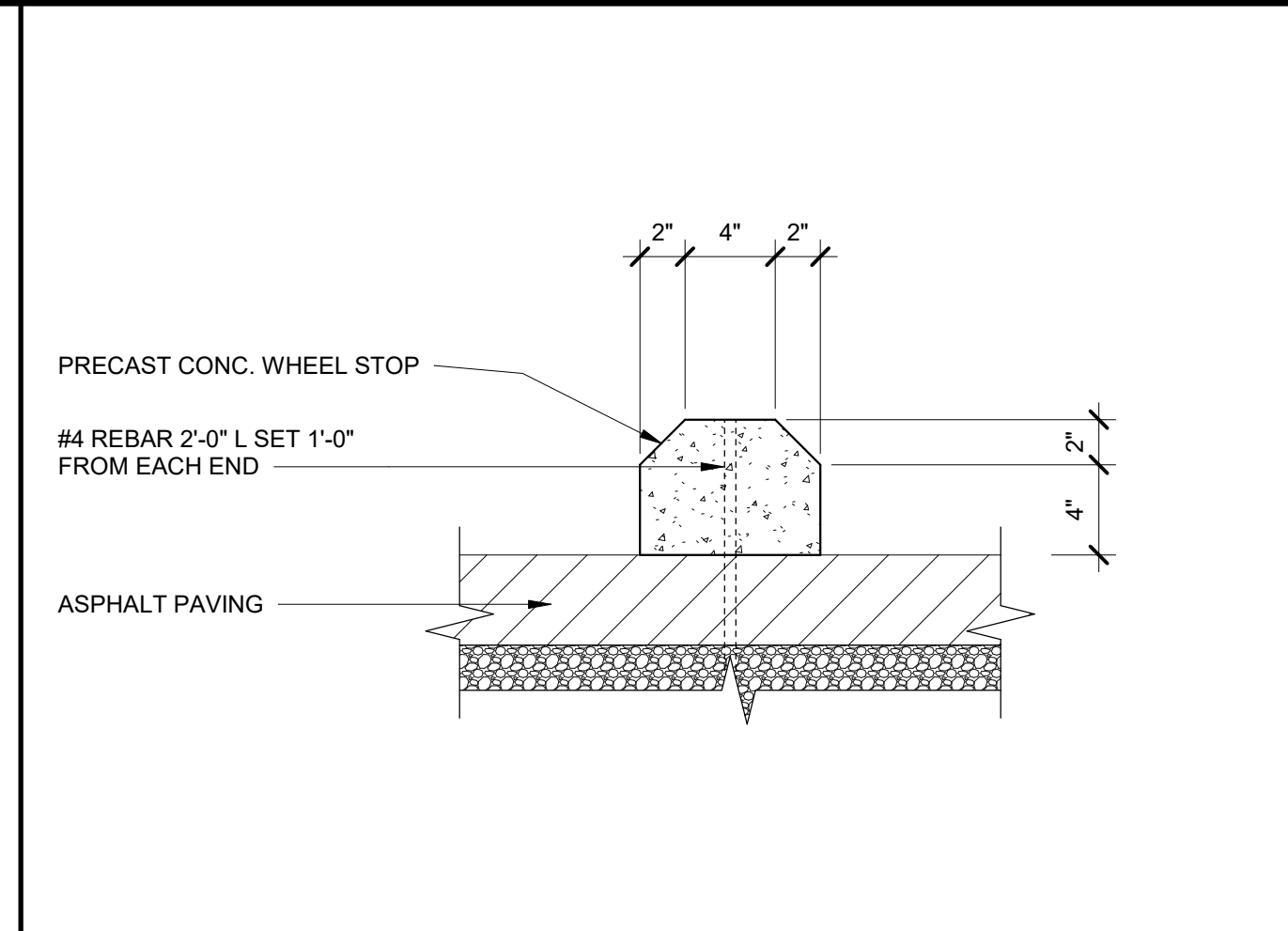
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SITE DETAILS
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 SHEET NO.

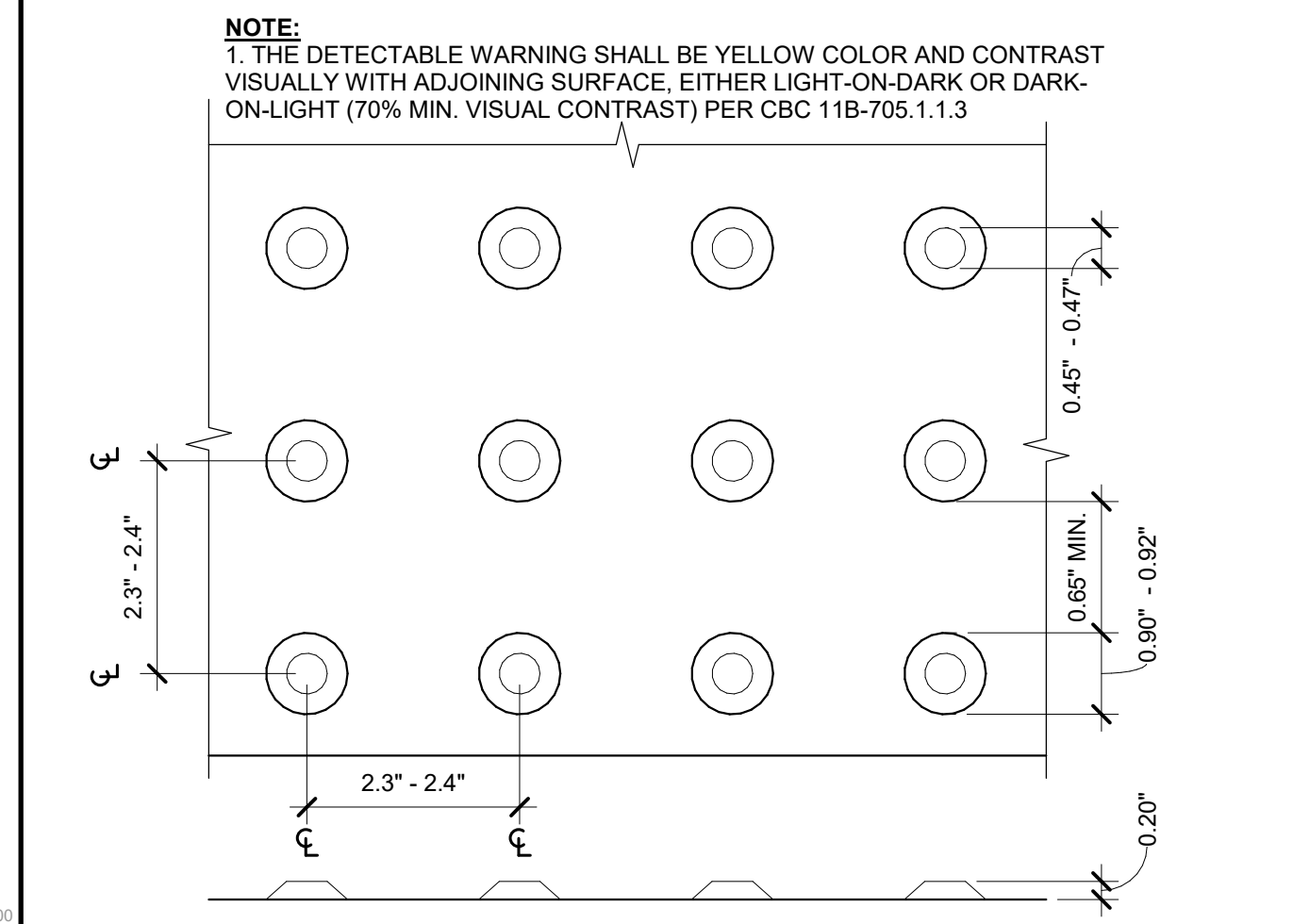
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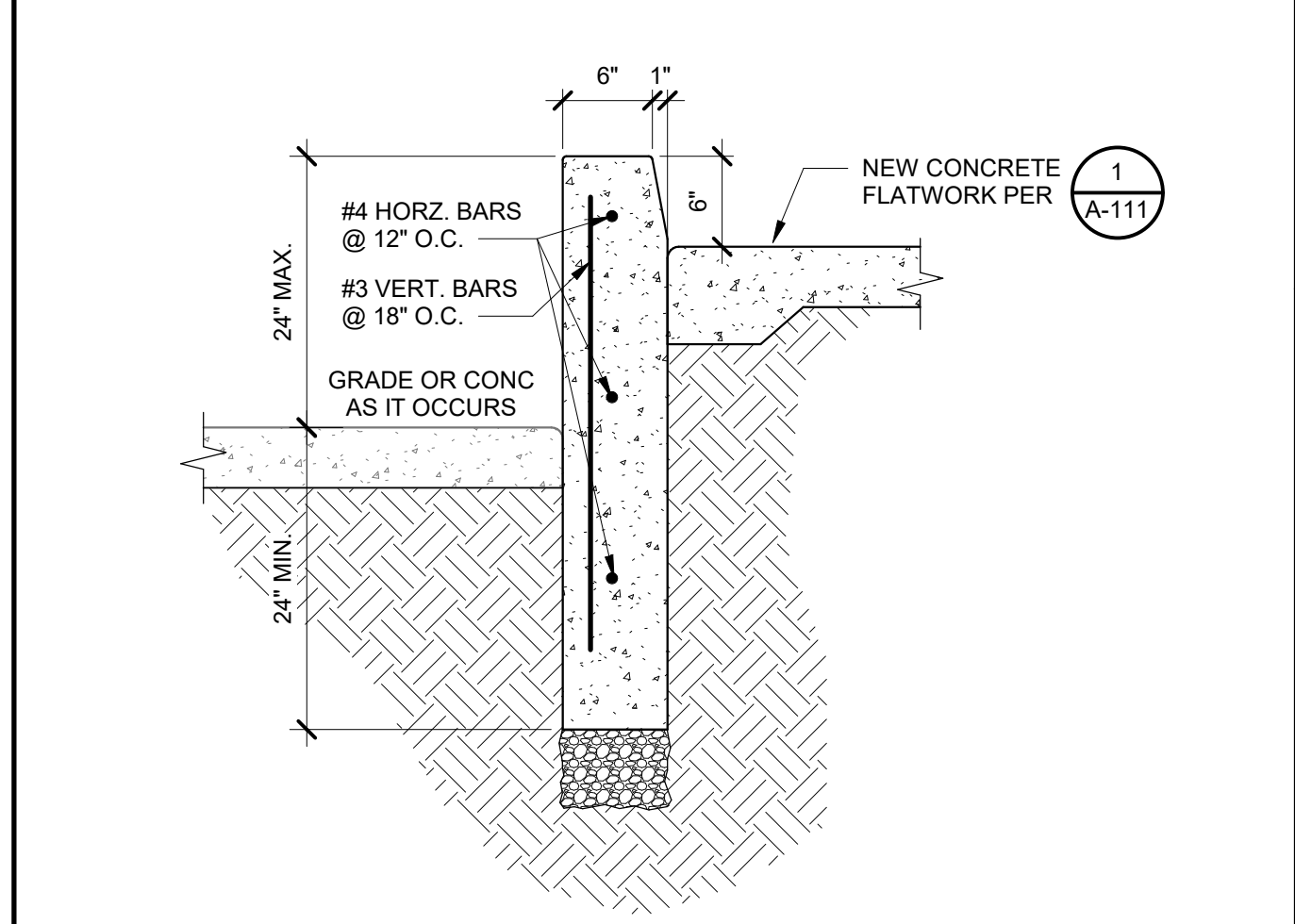
CONCRETE EDGE AT FINISH GRADE 1 1/2" = 1'-0" 1



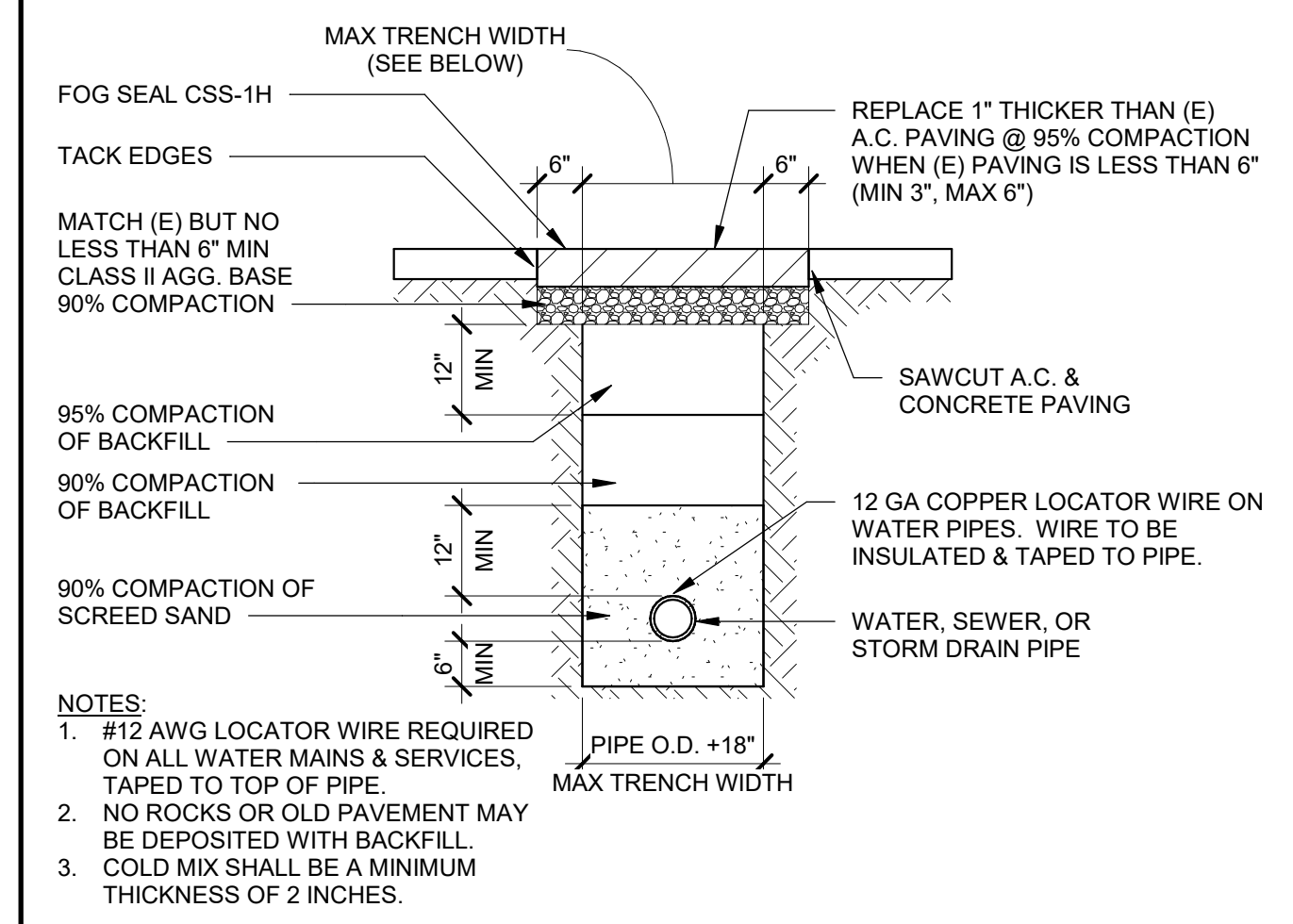
PRE-CAST CONC. WHEEL STOP 1 1/2" = 1'-0" 6



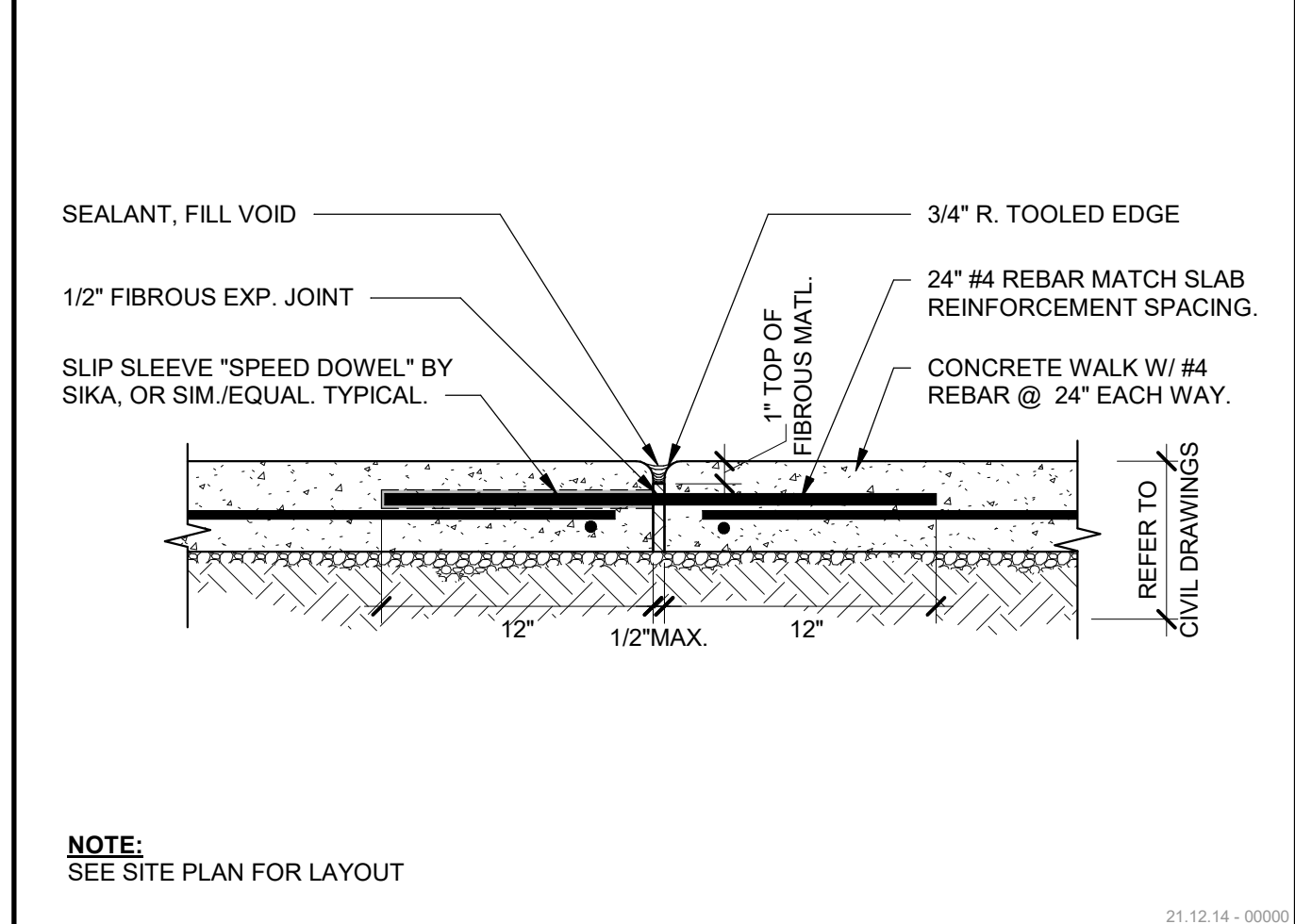
TRUNCATED DOMES 6" = 1'-0" 7



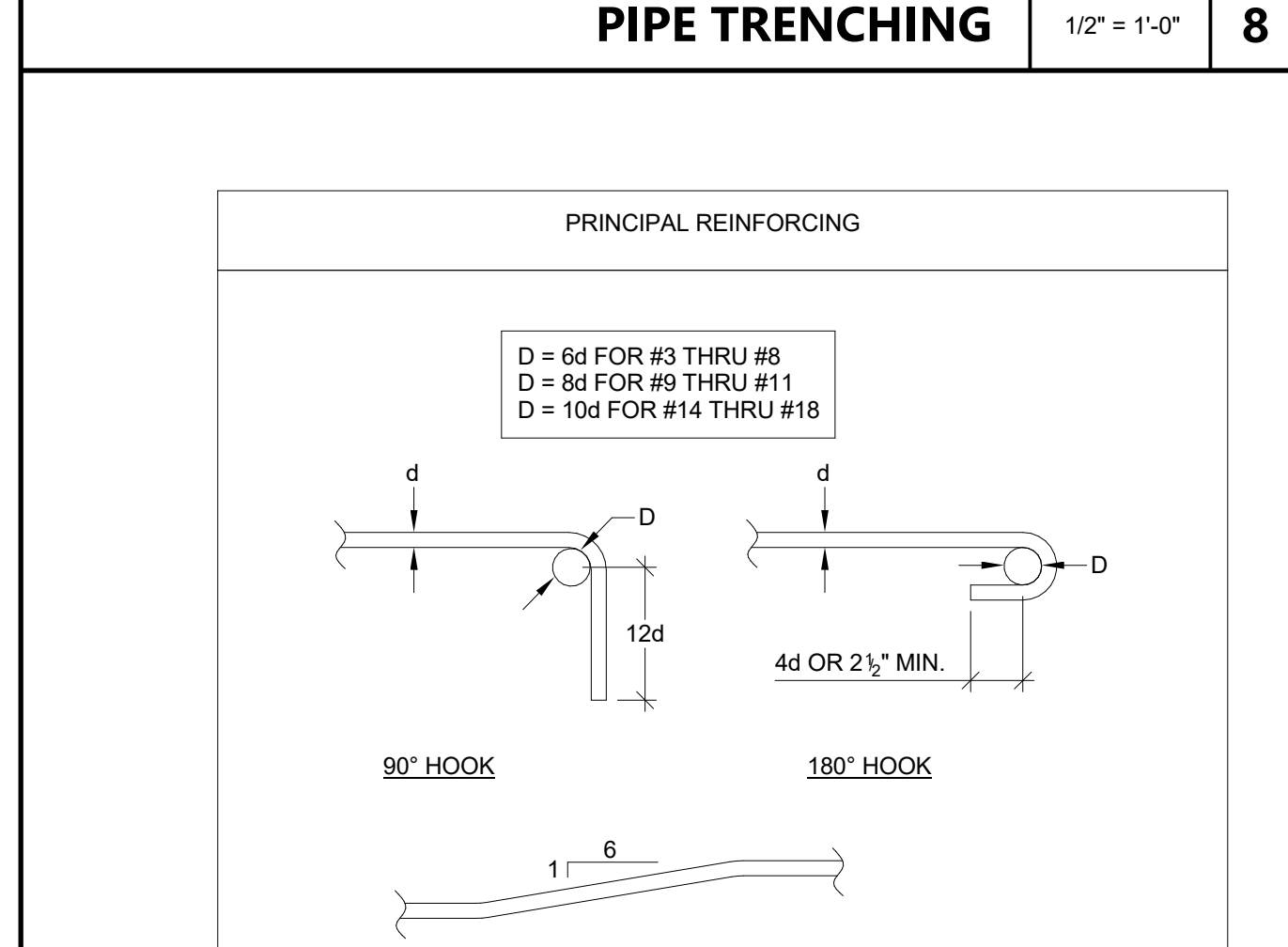
CURB WITH GRADE CHANGE 1" = 1'-0" 2



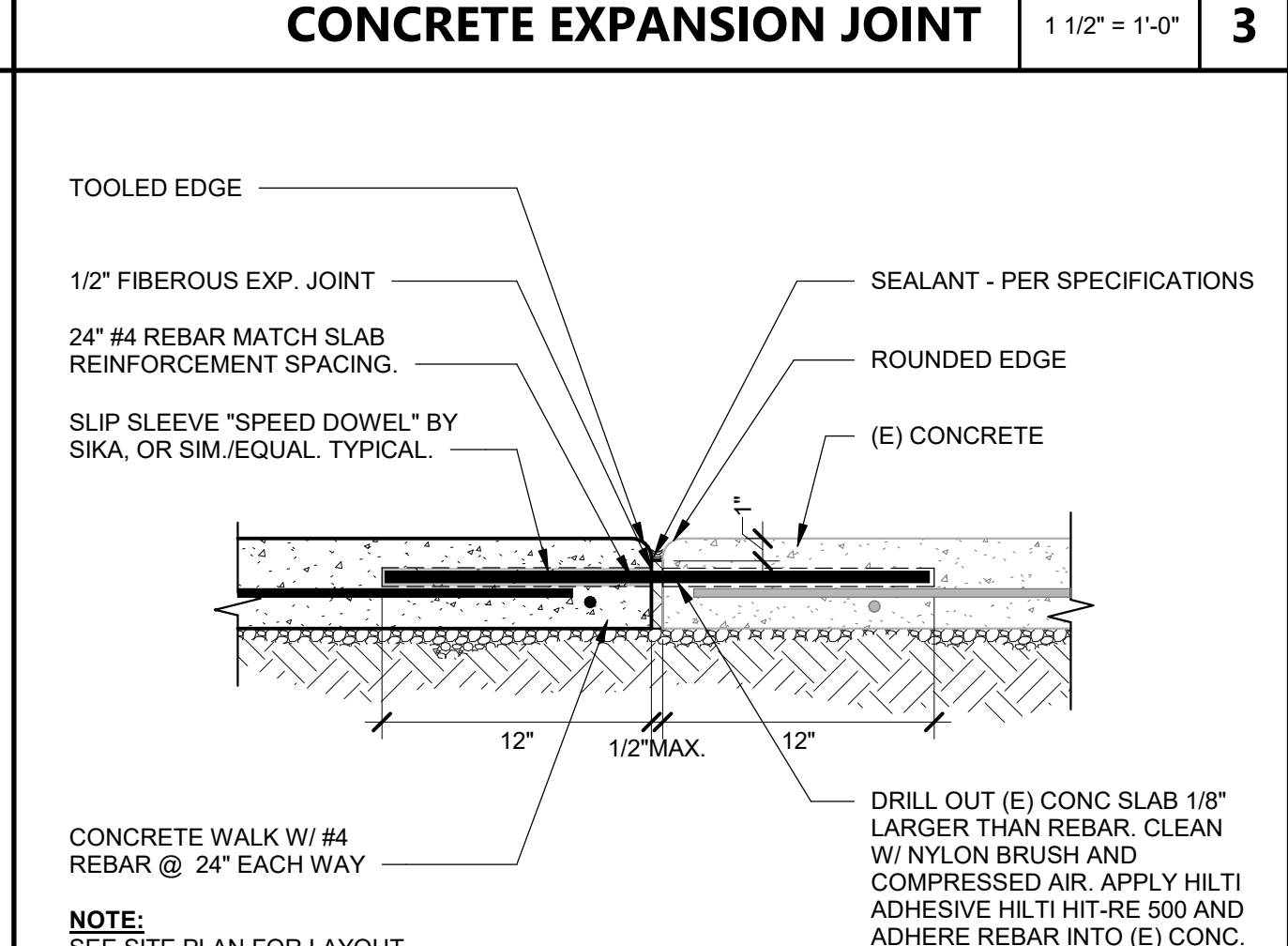
PIPE TRENCHING 1/2" = 1'-0" 8



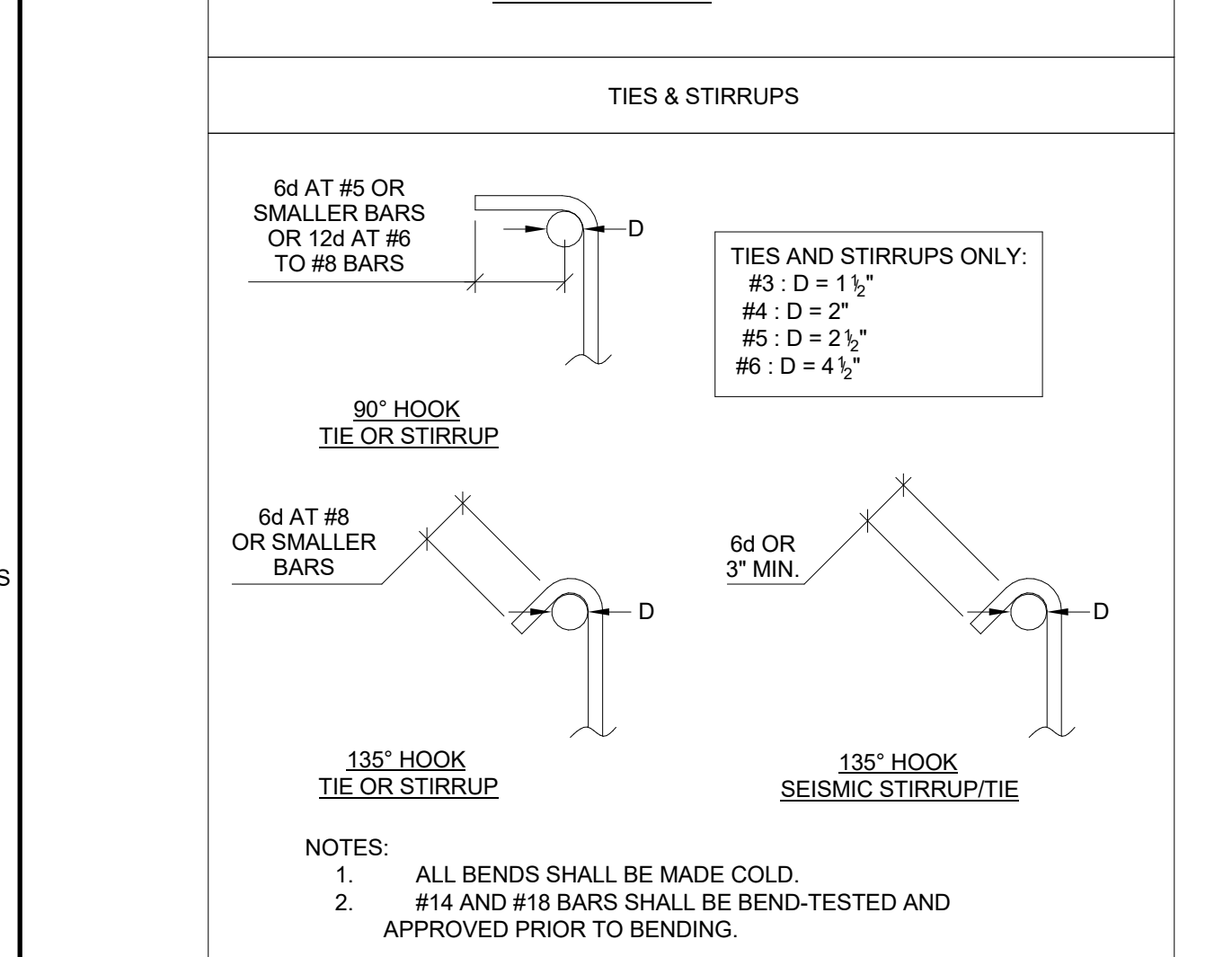
CONCRETE EXPANSION JOINT 1 1/2" = 1'-0" 3



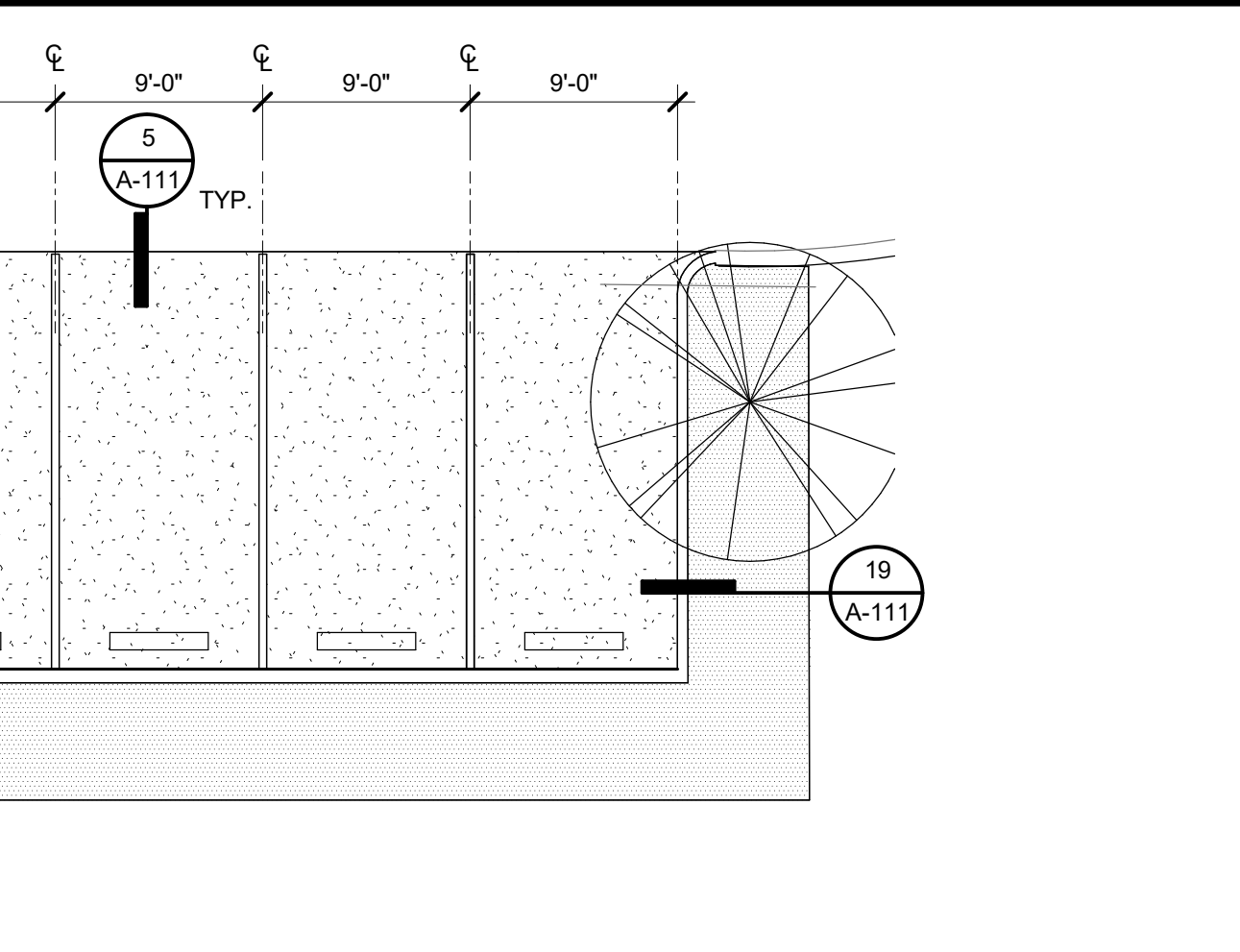
STANDARD HOOK & TIE DETAILS 1" = 1'-0" 10



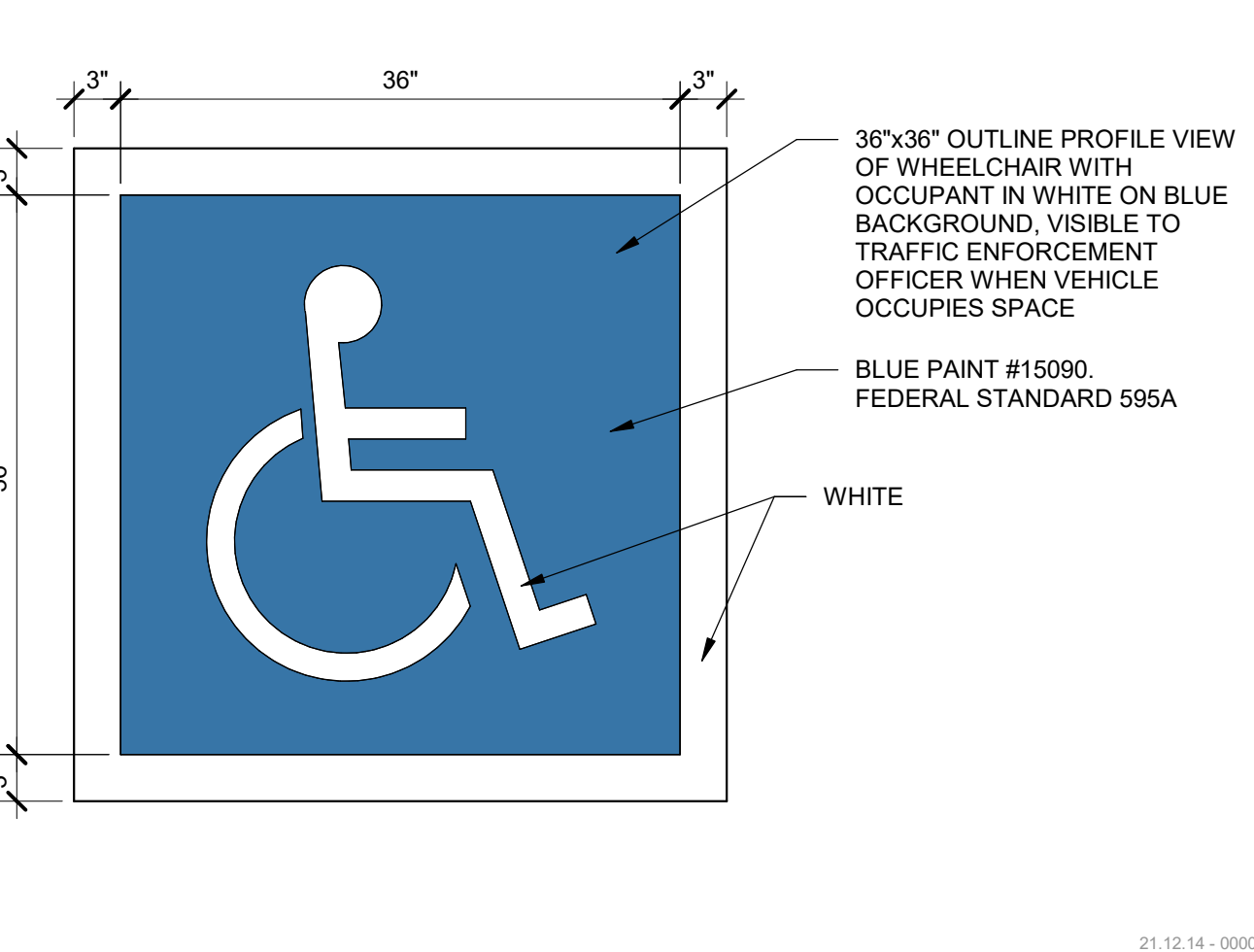
CONCRETE JOINT @ (E) CONCRETE 1 1/2" = 1'-0" 4



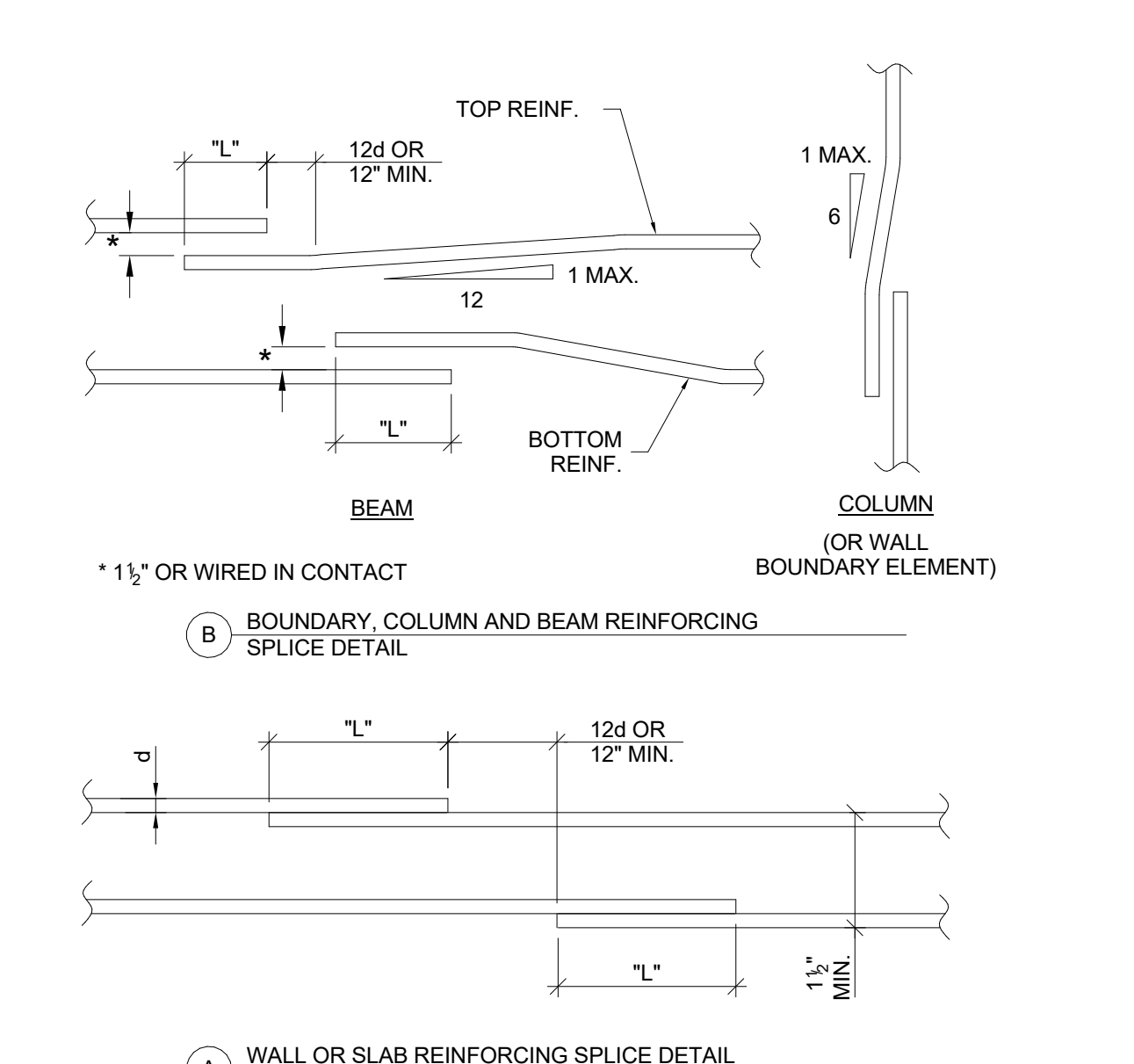
REBAR SPLICE SCHEDULE & NOTES 1" = 1'-0" 15



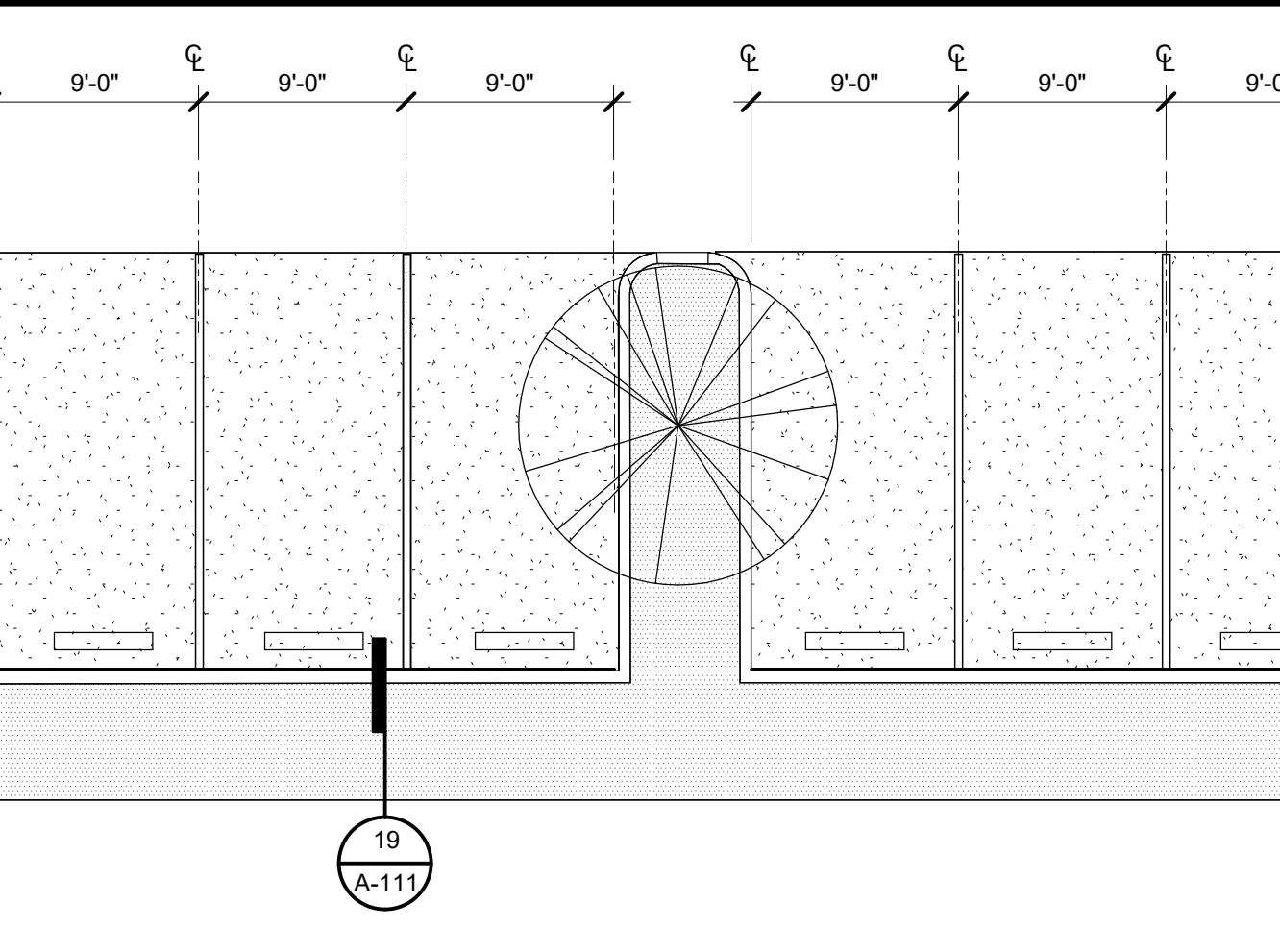
ENLARGED SITE PLAN - PARKING 1/8" = 1'-0" 11



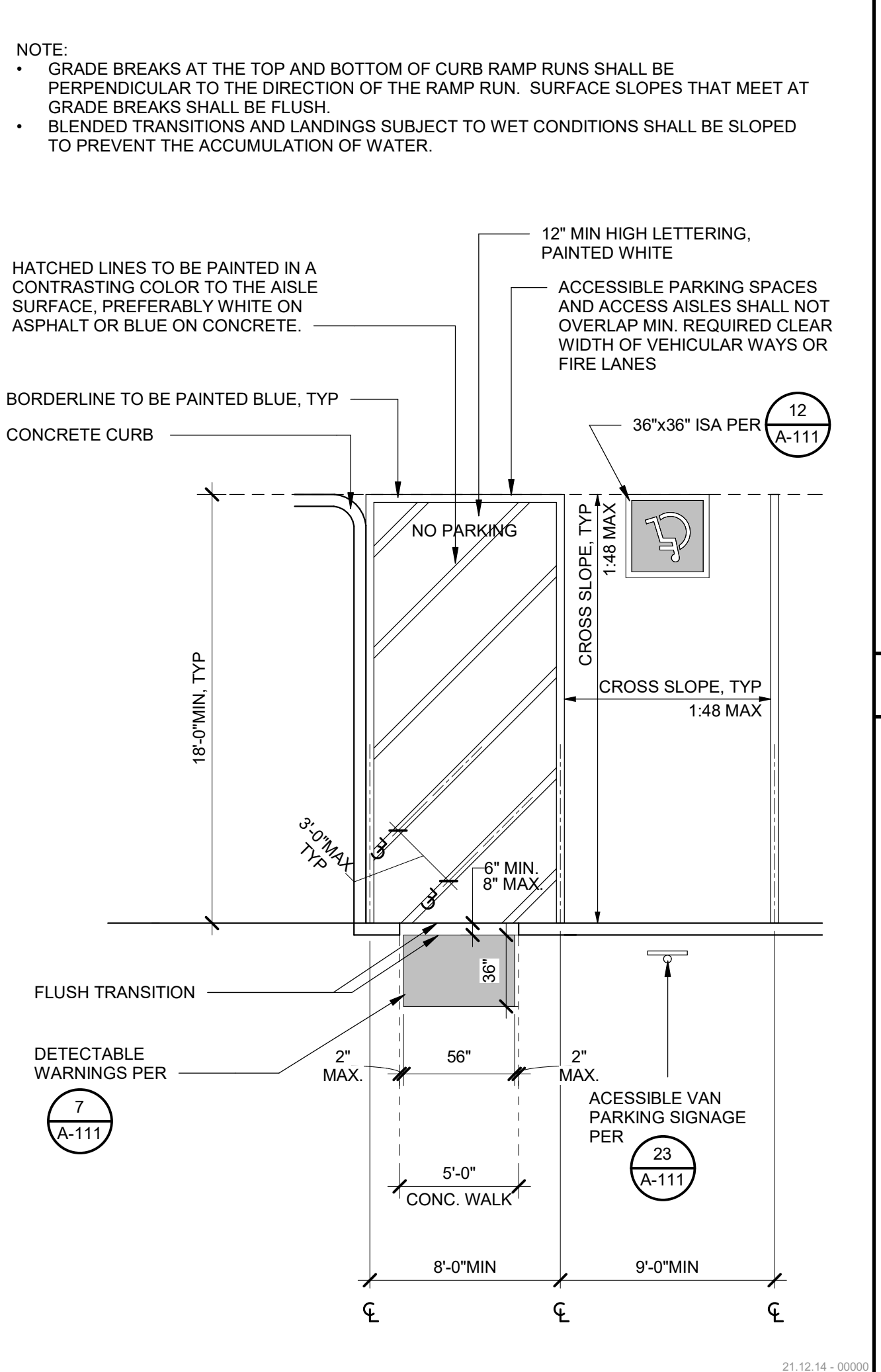
PARKING ACCESSIBILITY 1" = 1'-0" 12



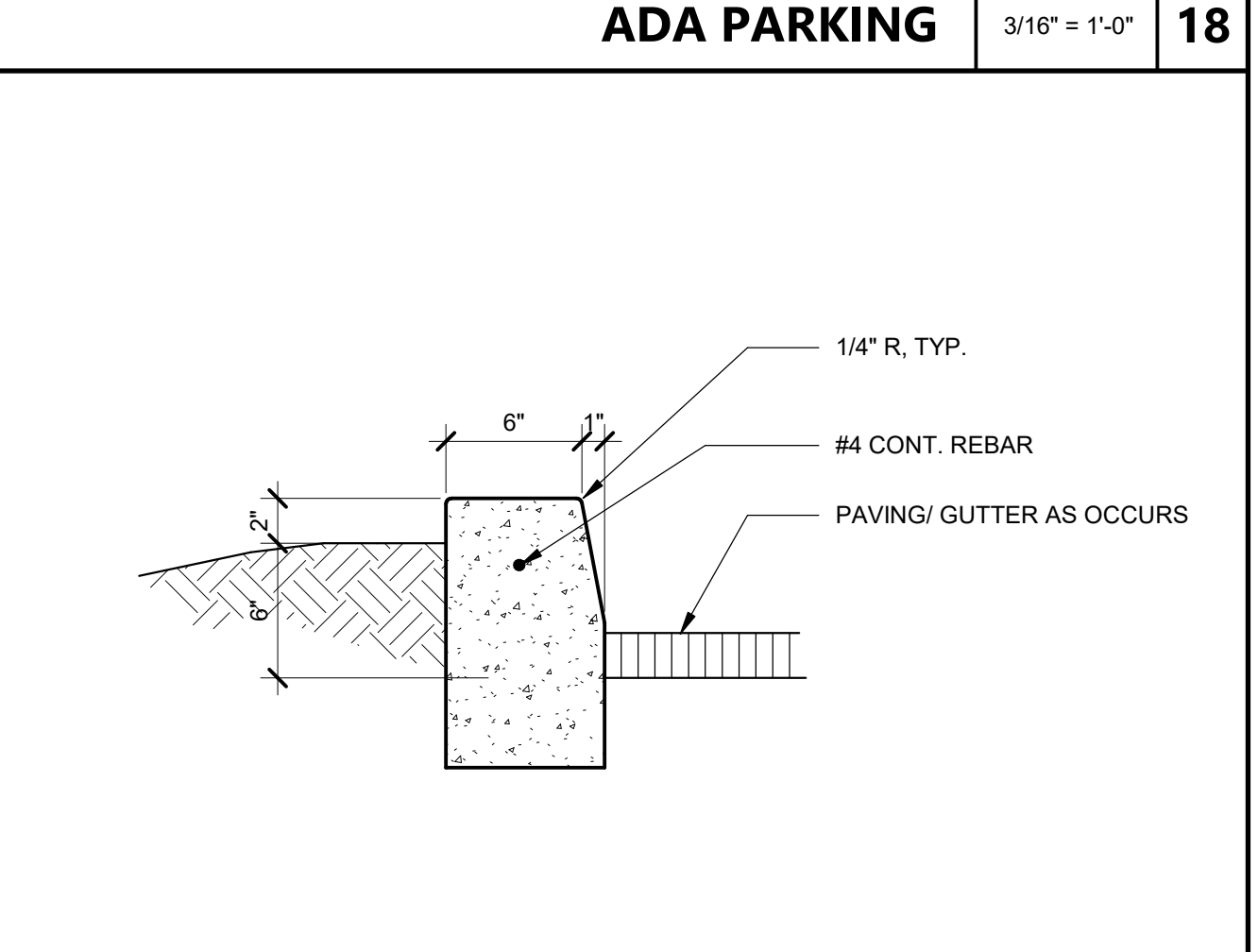
ADA PARKING 3/16" = 1'-0" 18



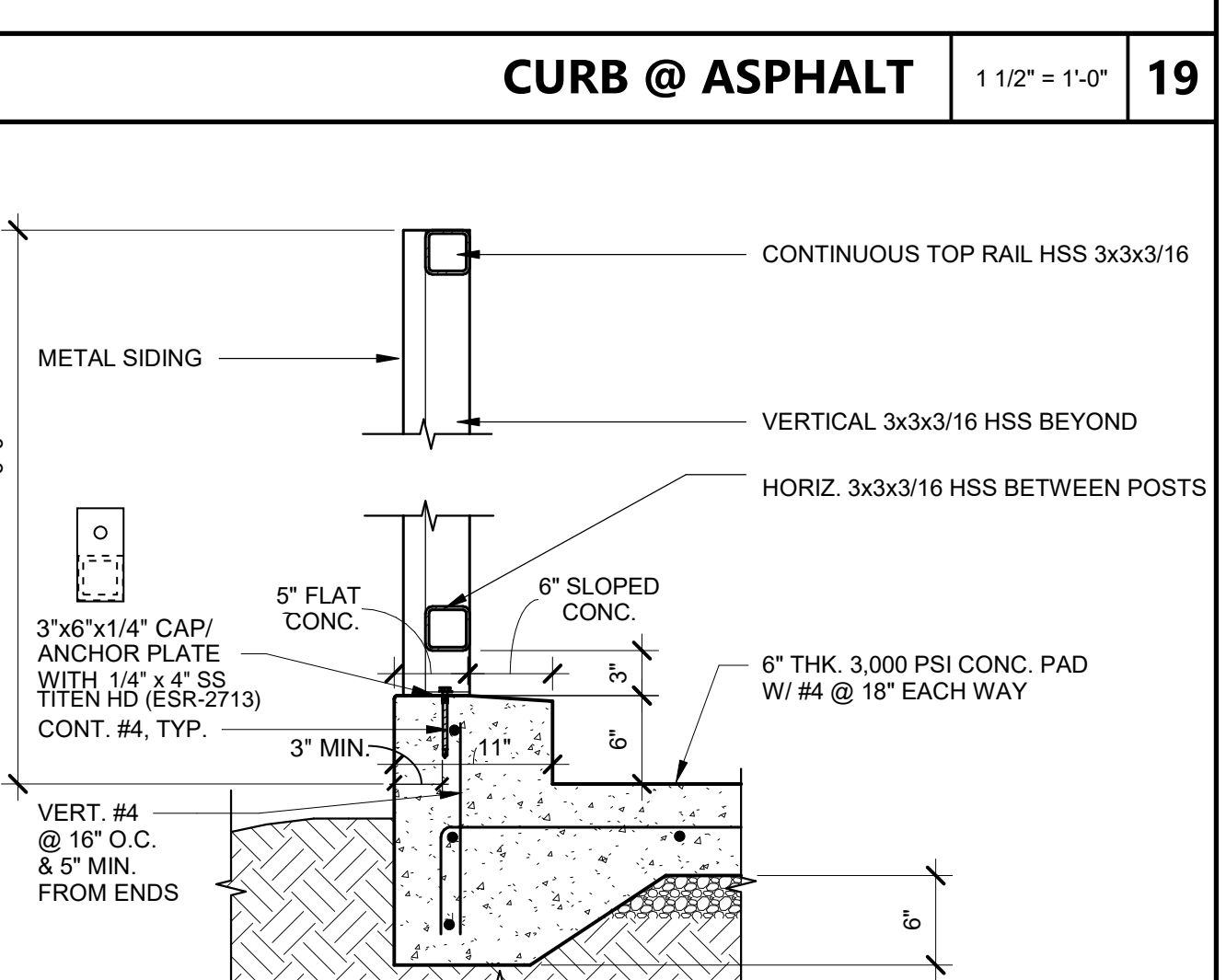
ACC. PARKING LOT SIGNAGE 1 1/2" = 1'-0" 23



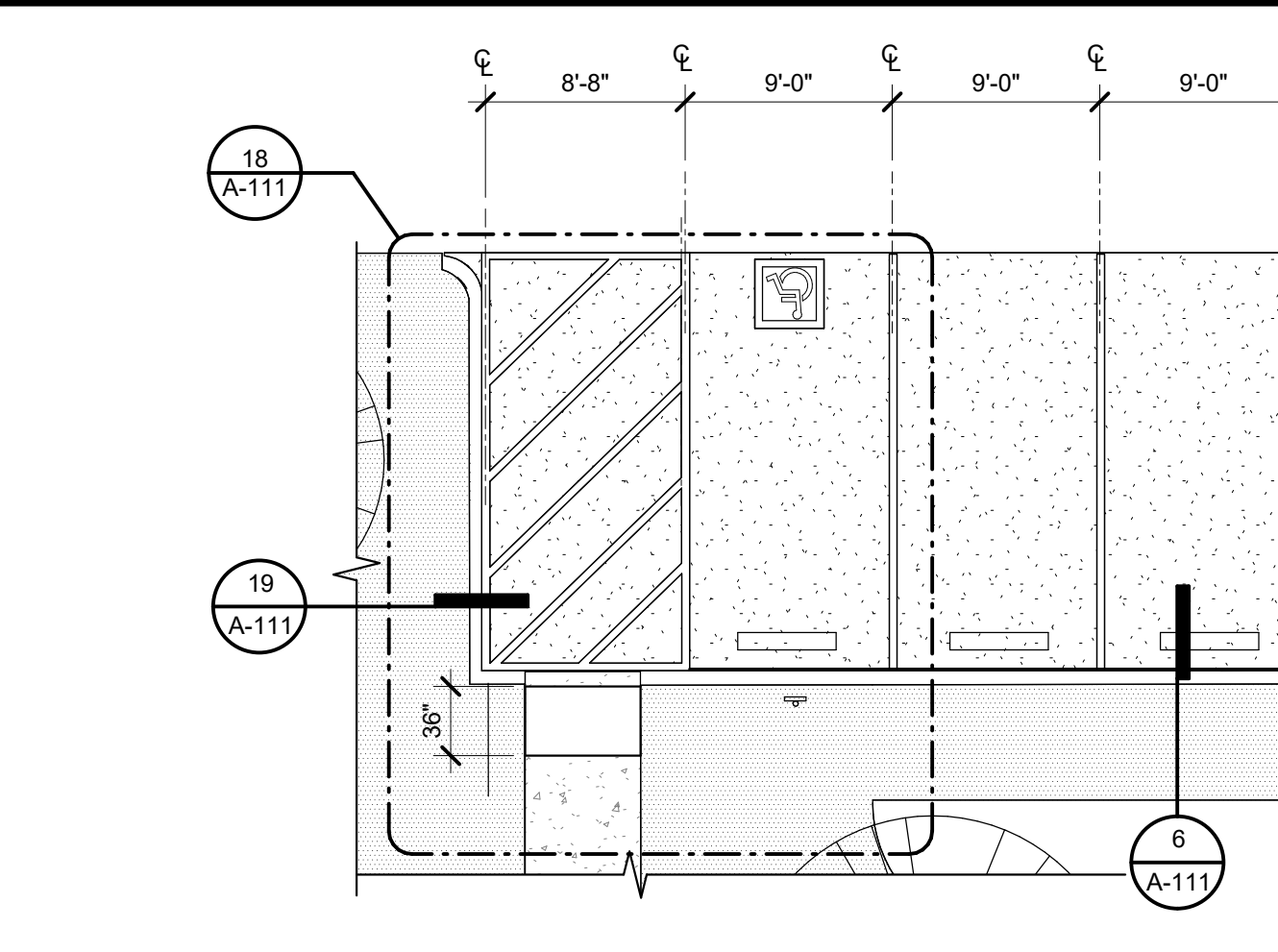
ACC. PARKING LOT SIGNAGE 1 1/2" = 1'-0" 23



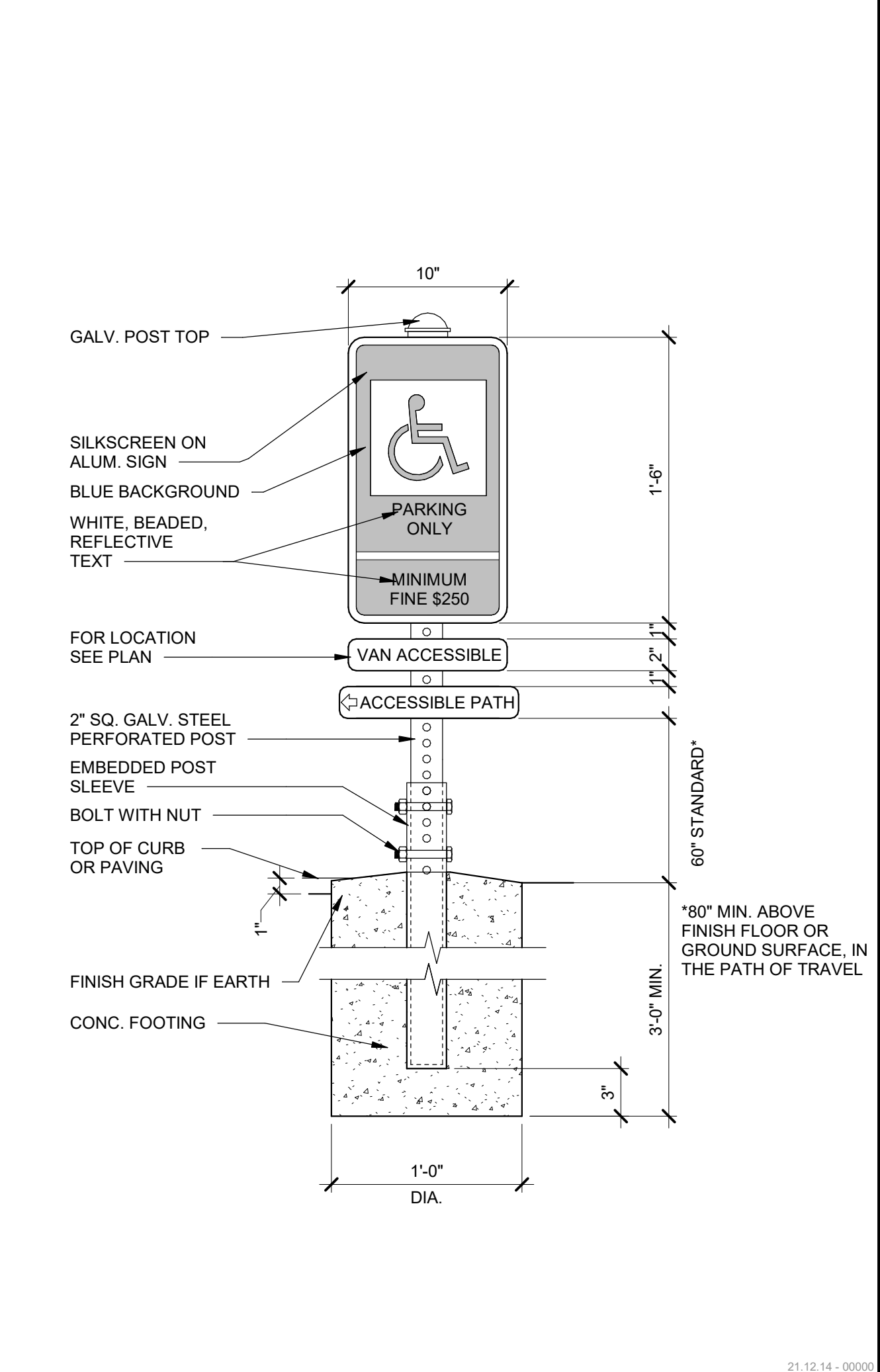
CURB @ ASPHALT 1 1/2" = 1'-0" 19



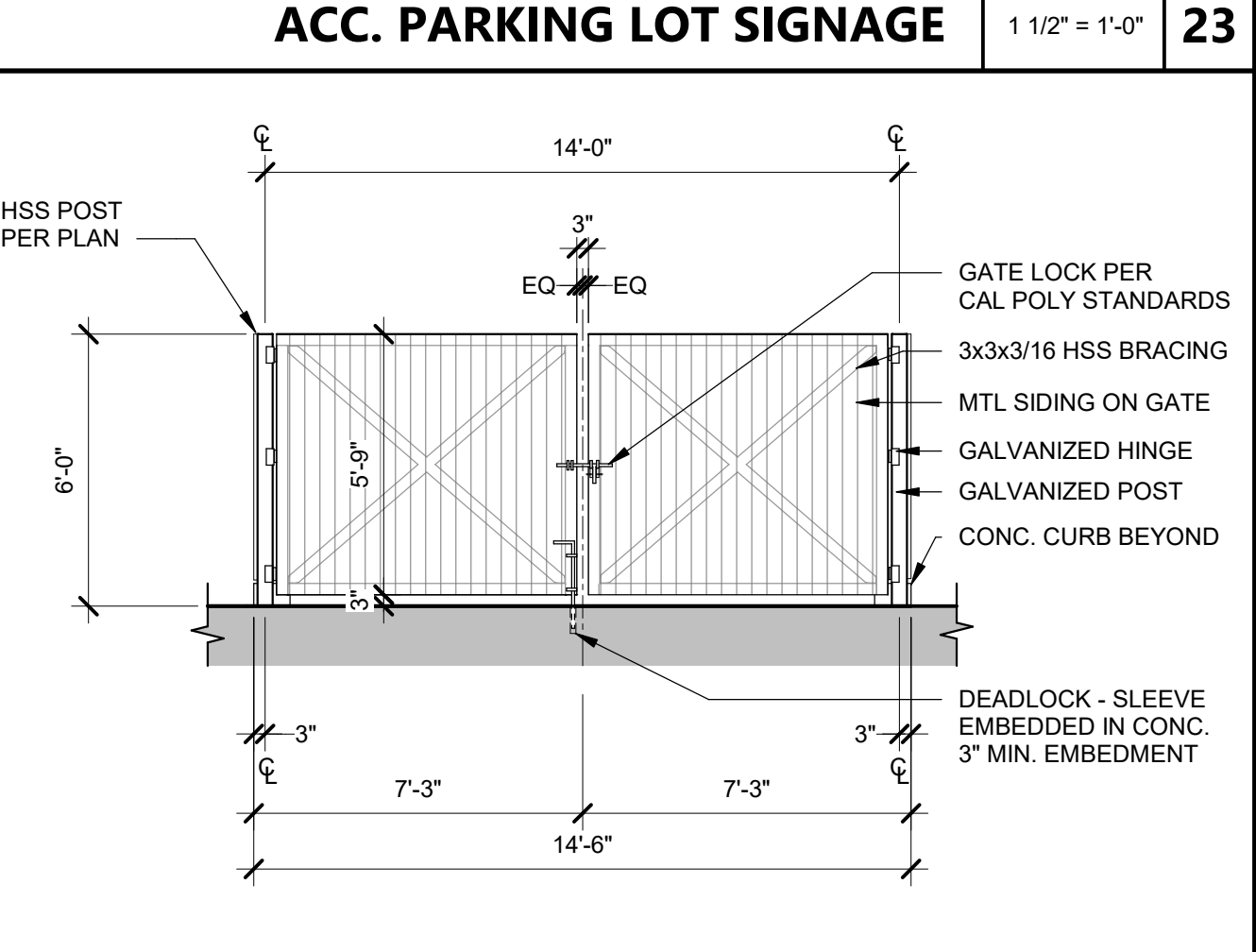
TRASH ENCLOSURE SECTION 1" = 1'-0" 20



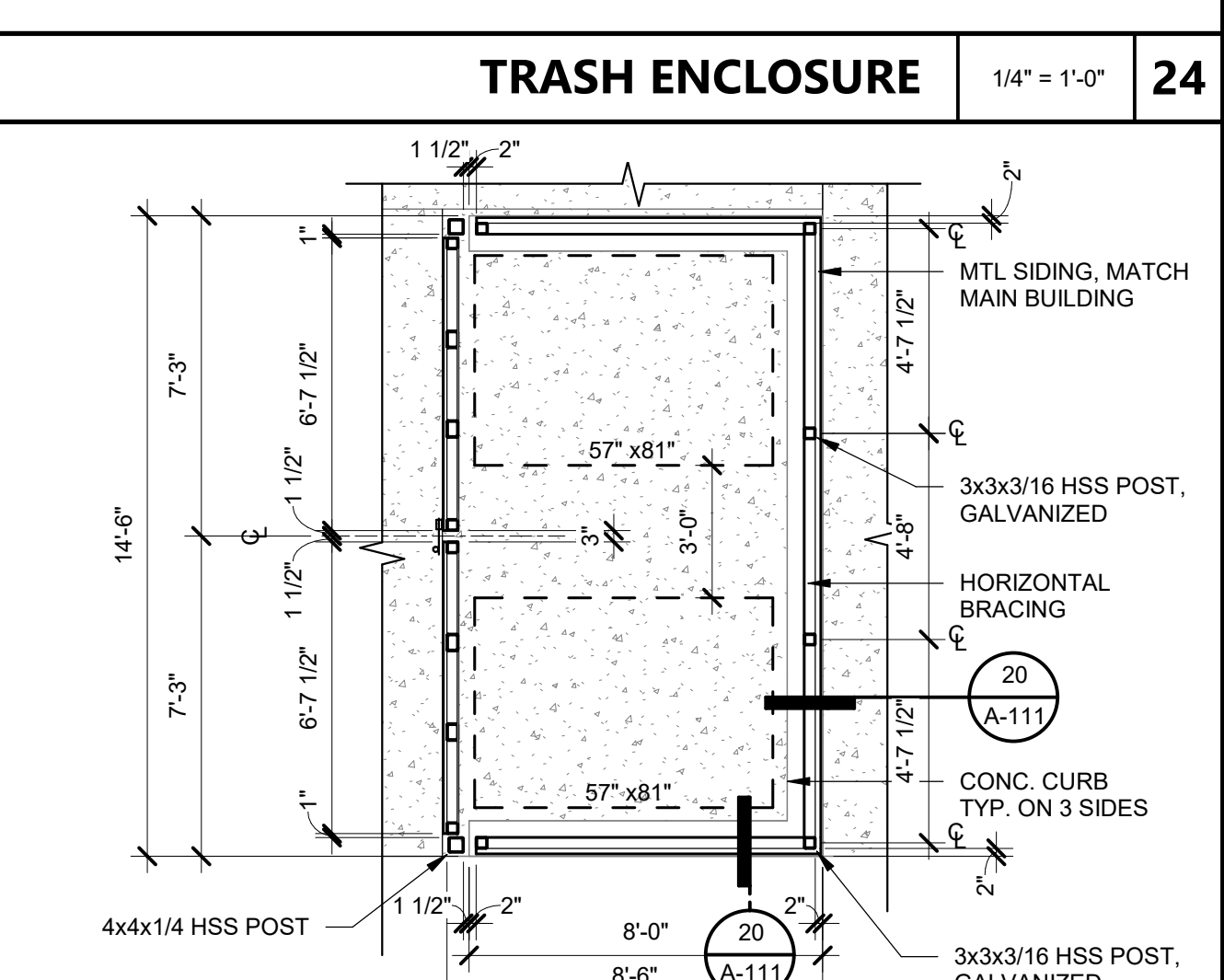
TRASH ENCLOSURE 1/4" = 1'-0" 24



TRASH ENCLOSURE 1/4" = 1'-0" 24



TRASH ENCLOSURE 1/4" = 1'-0" 25

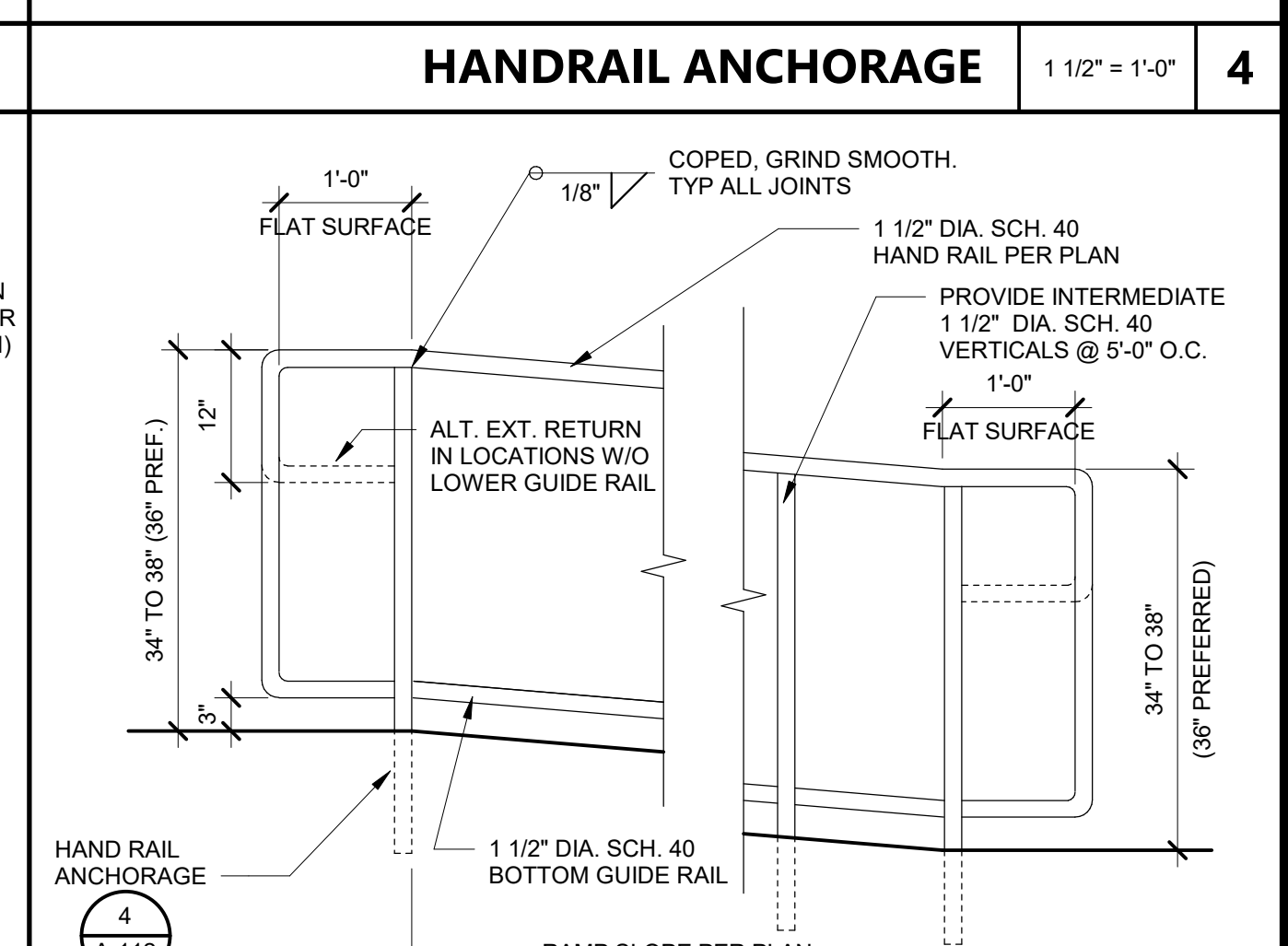
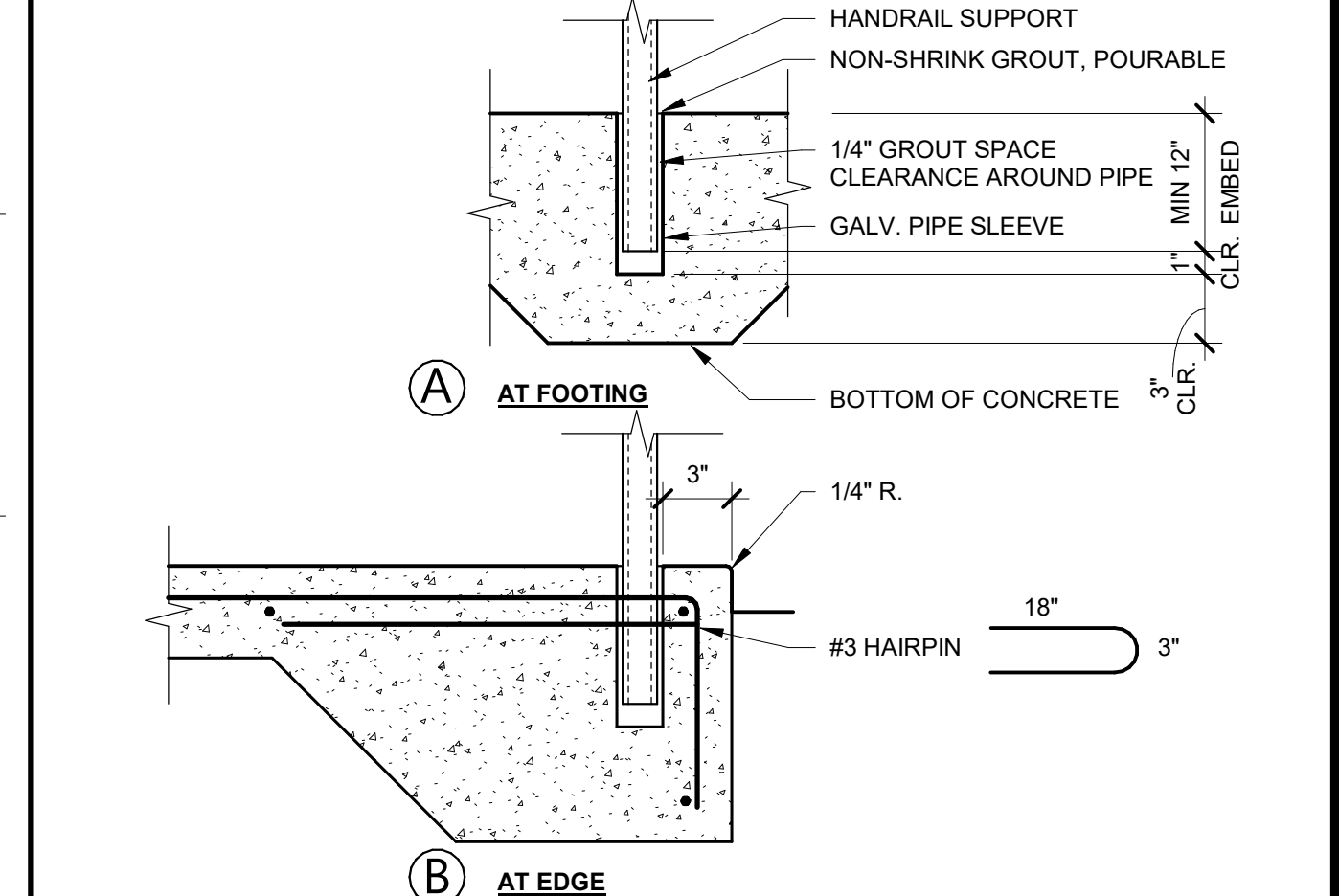
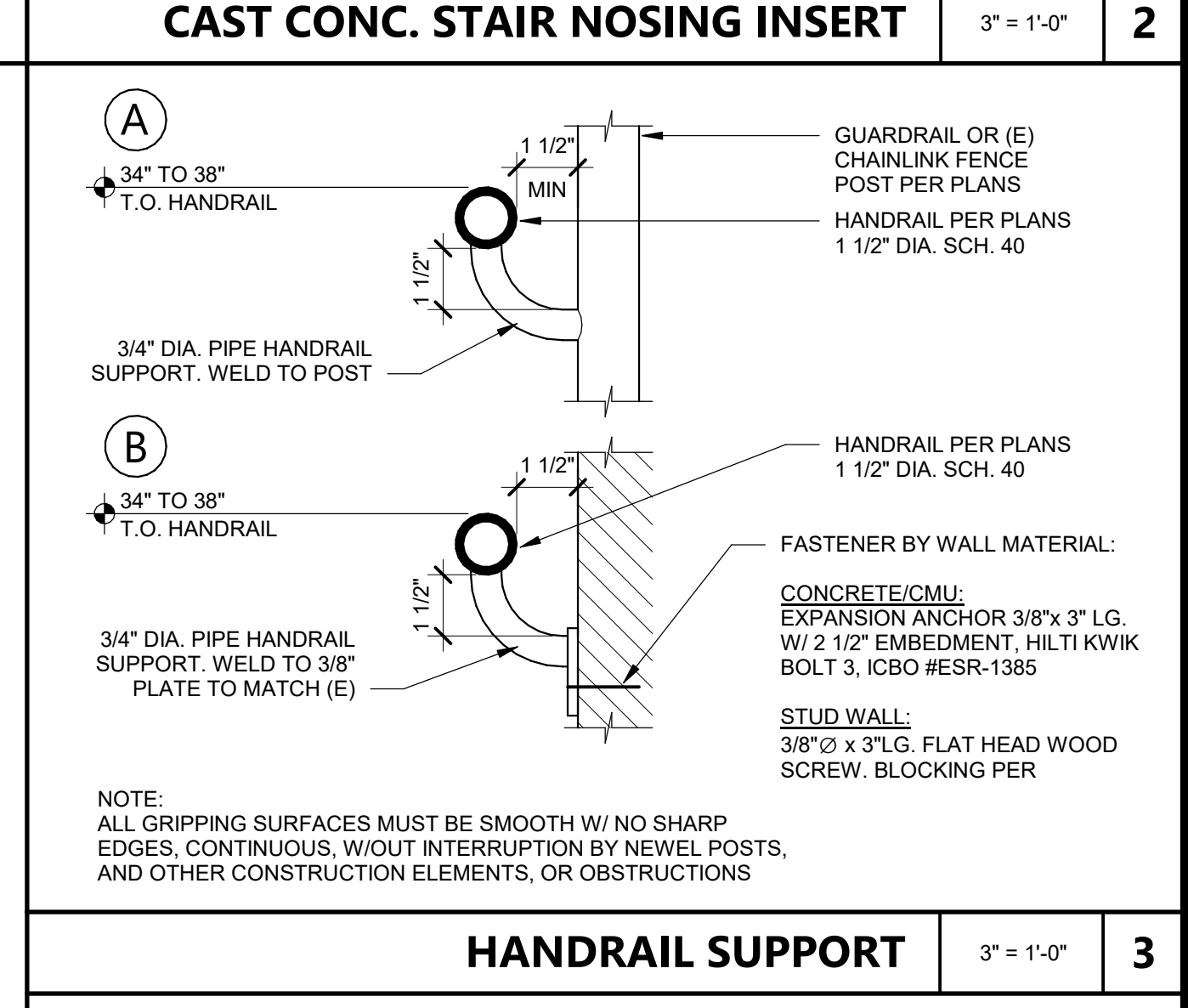
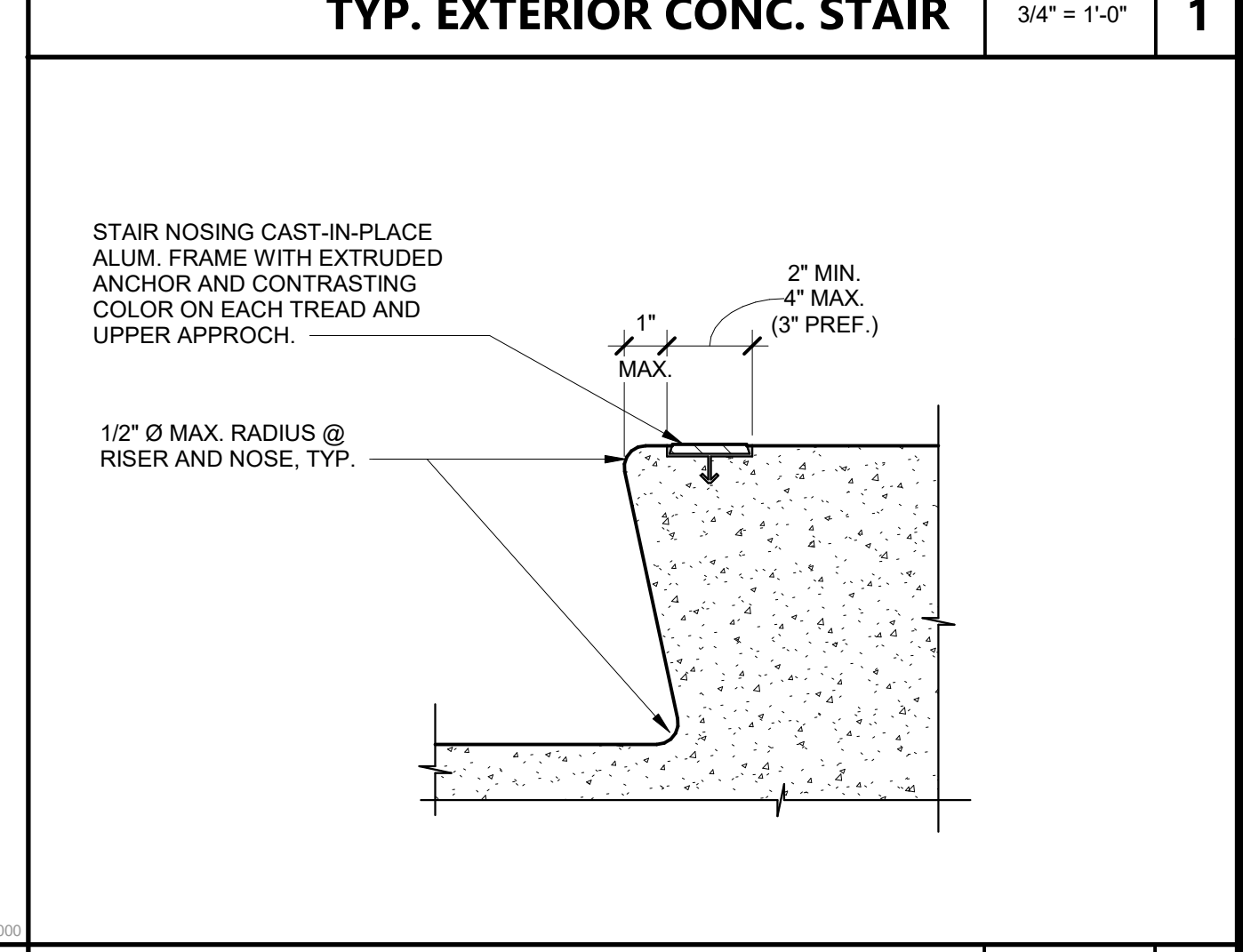
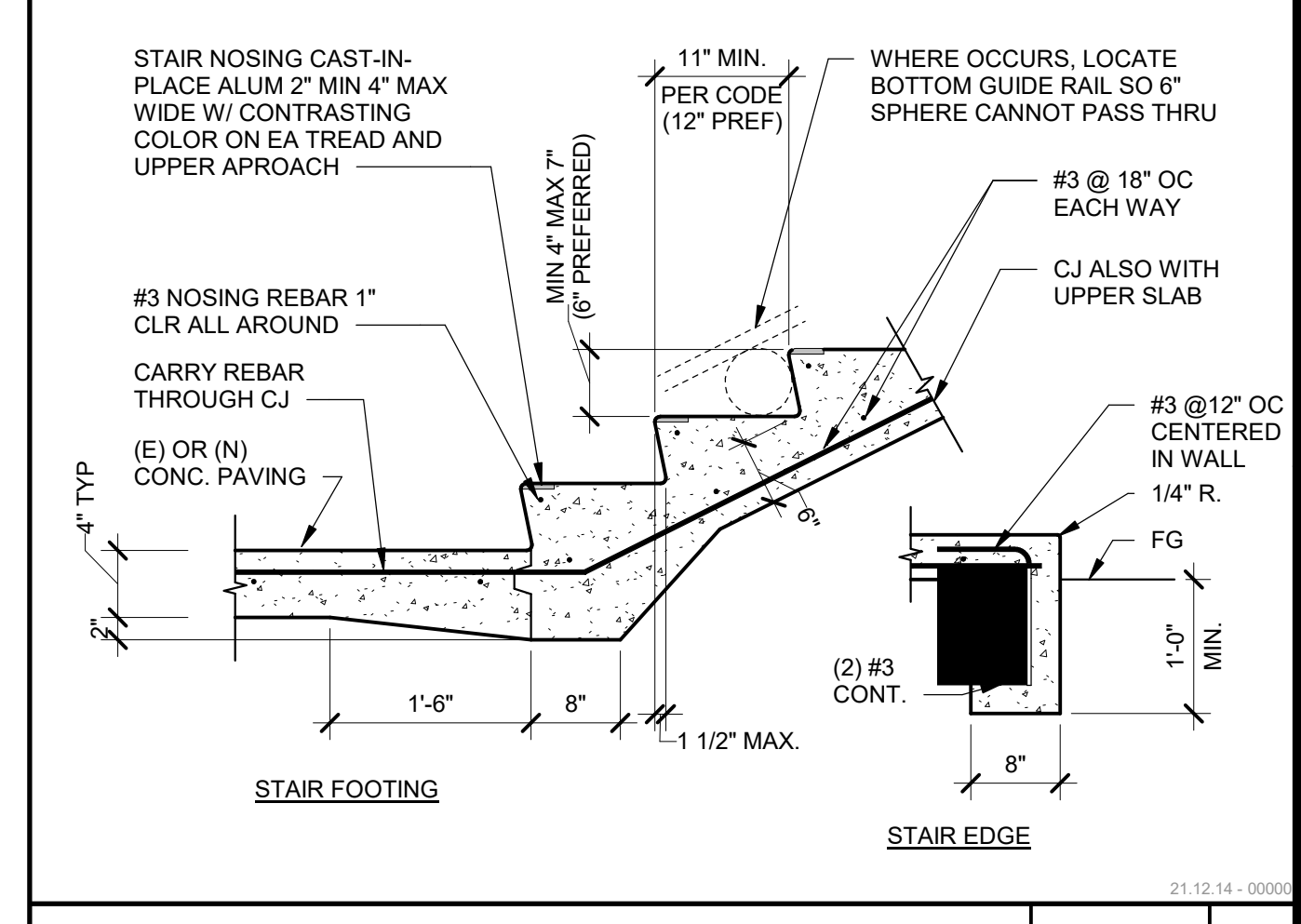
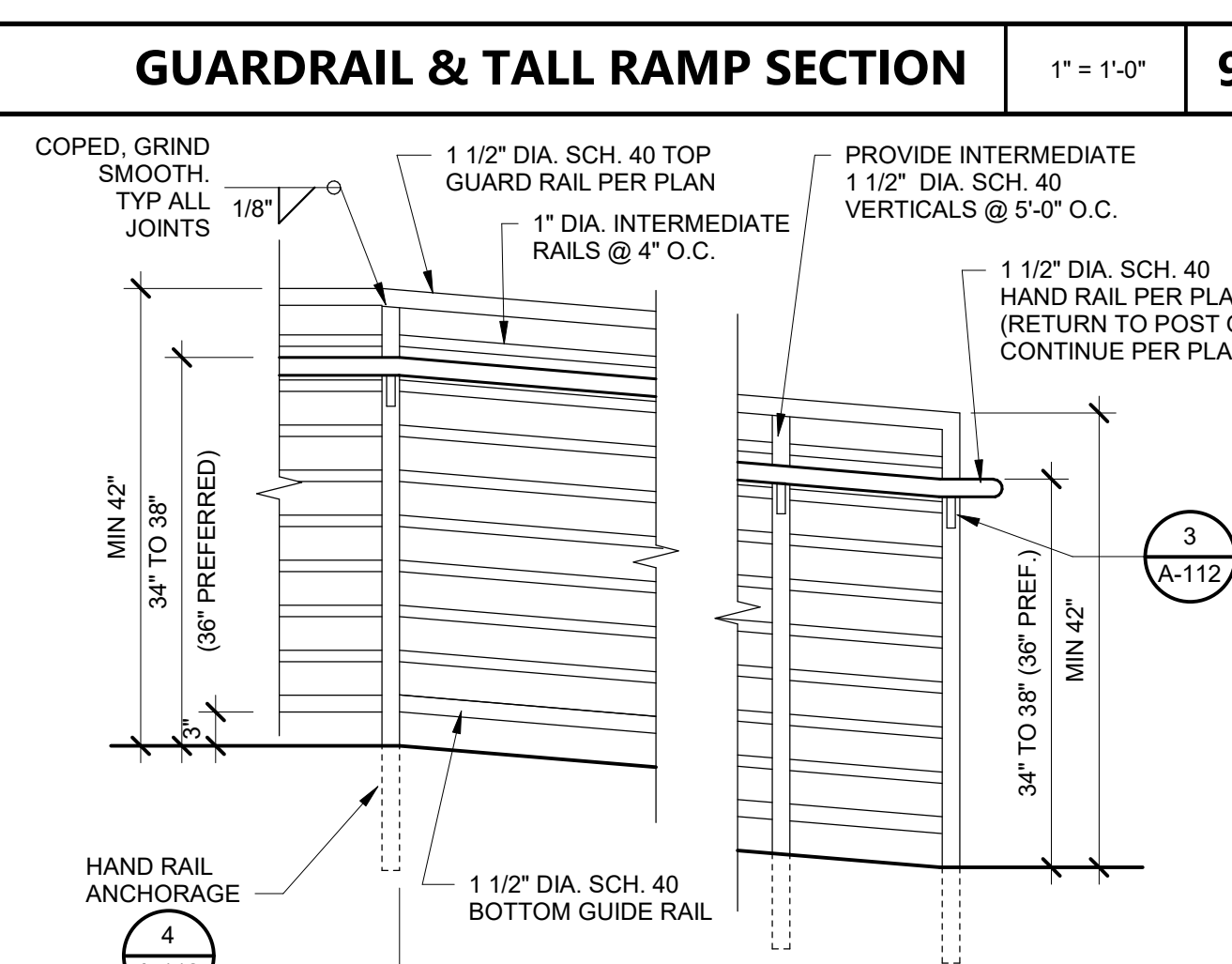
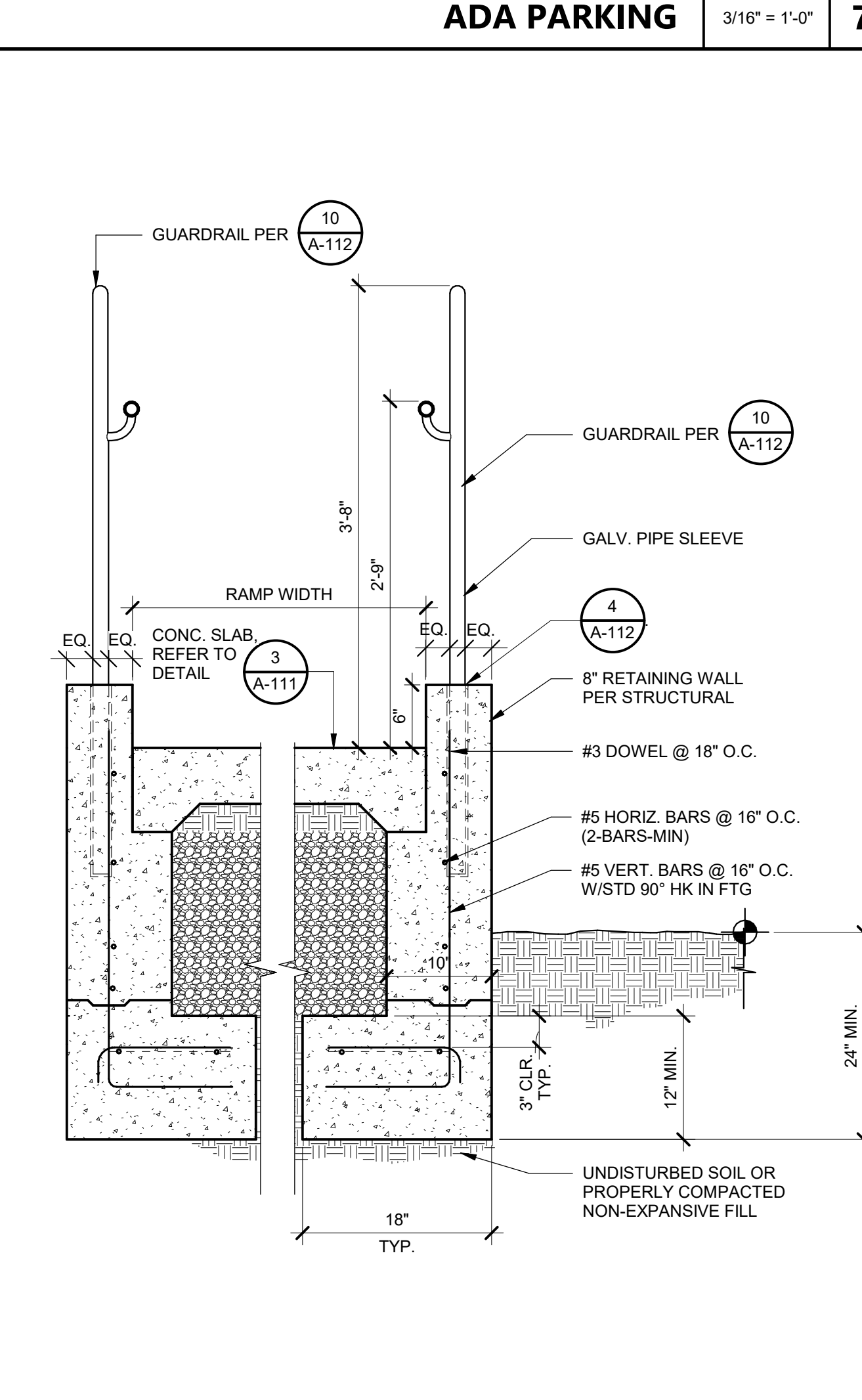
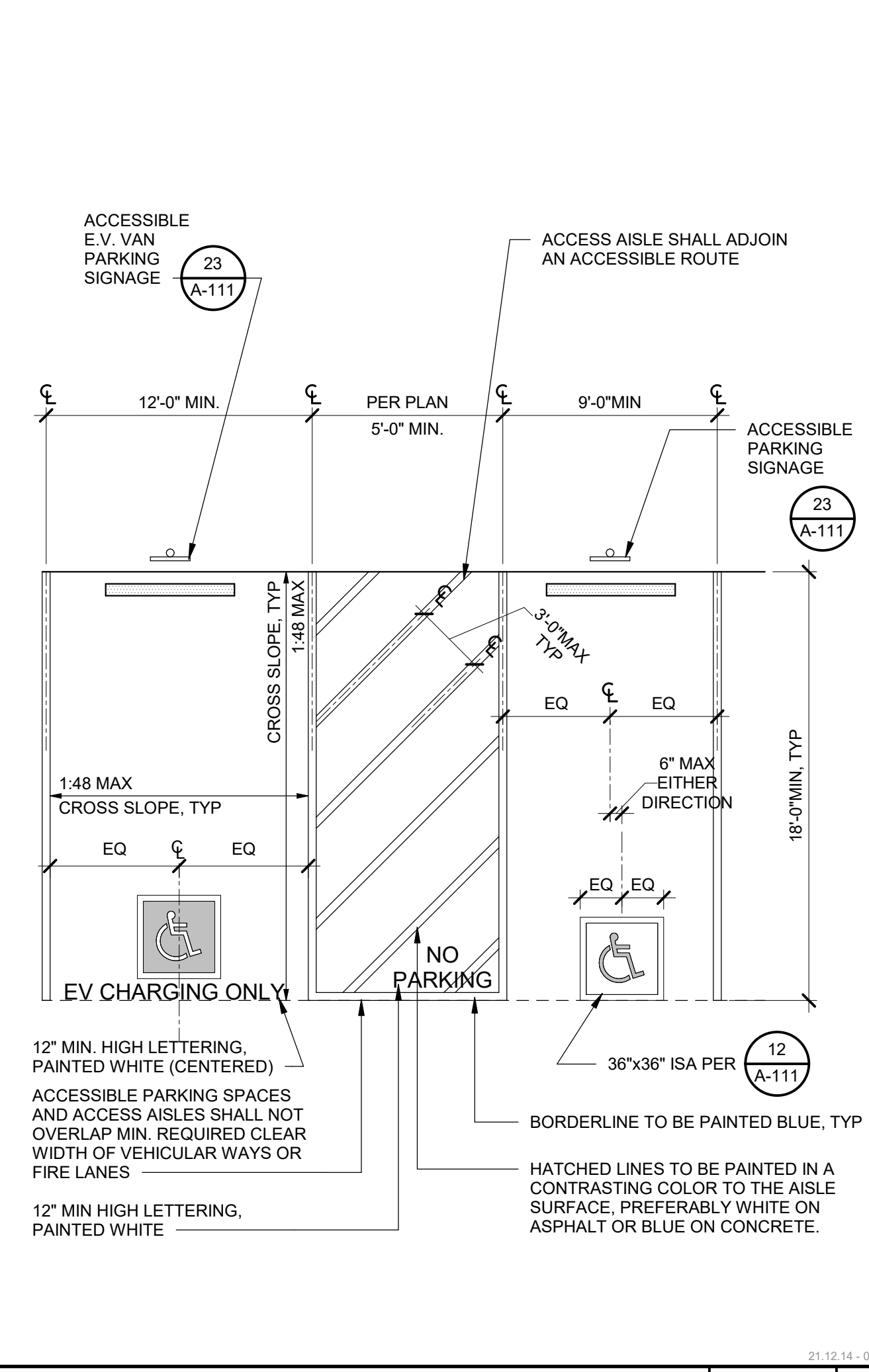
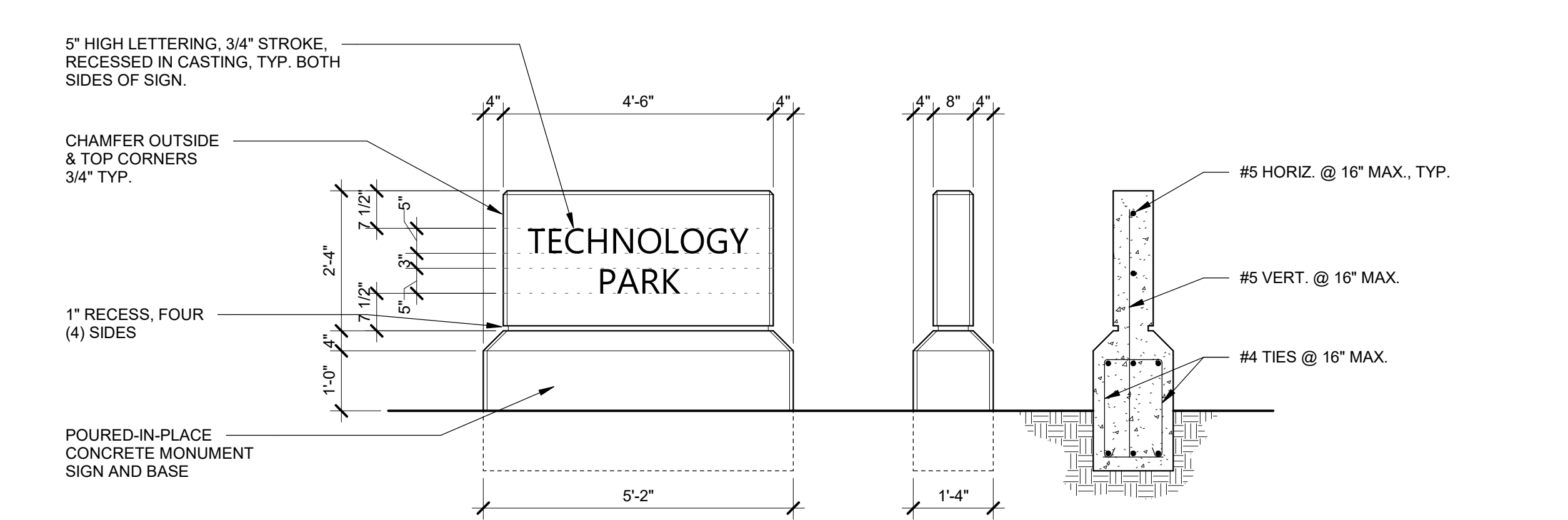
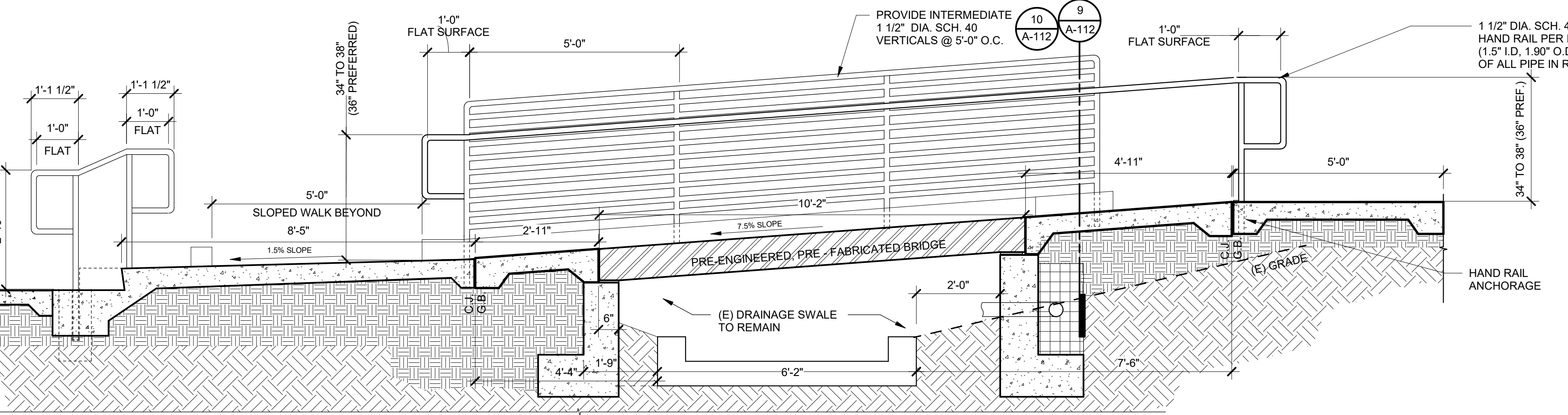
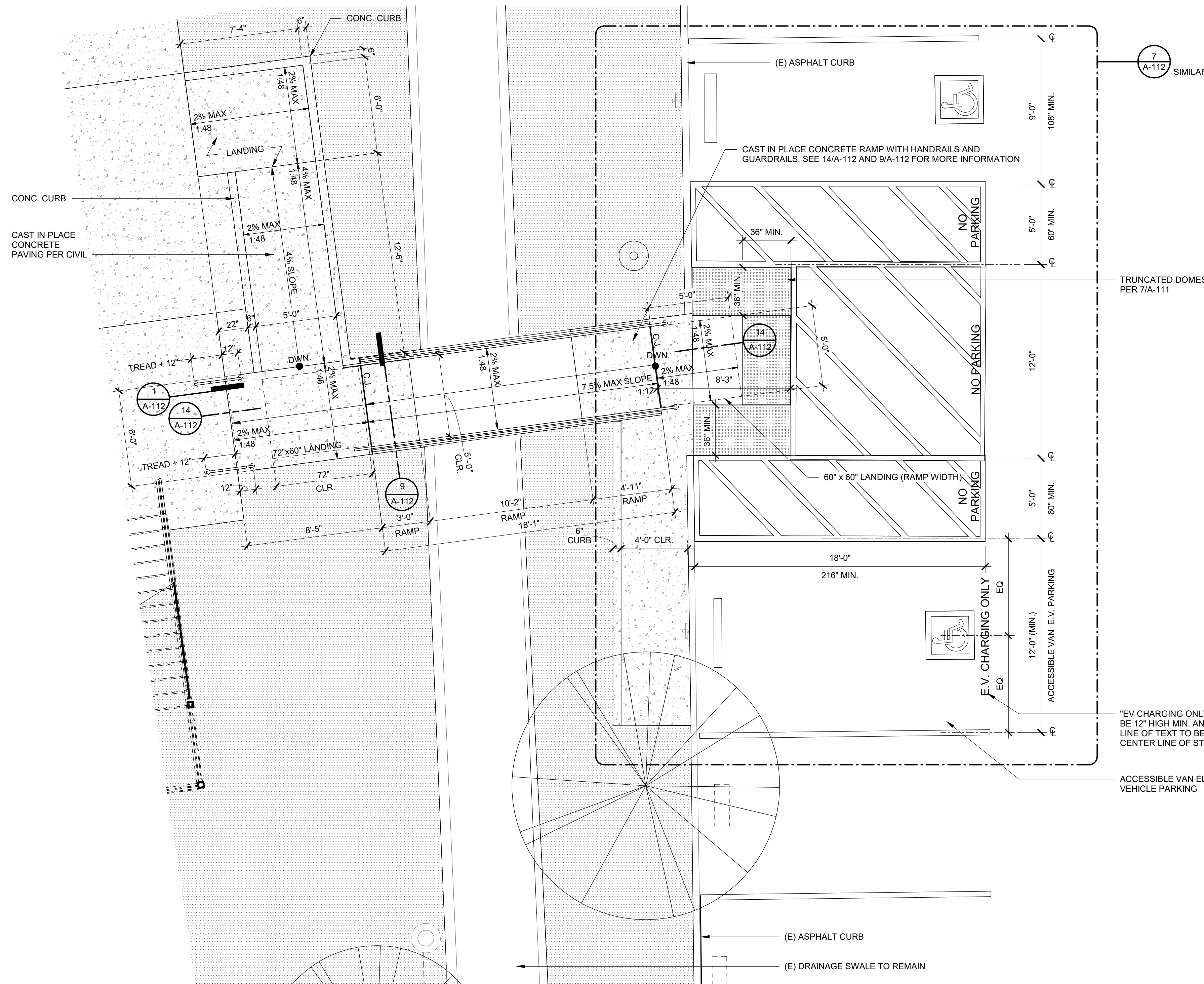


TRASH ENCLOSURE 1/4" = 1'-0" 25

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Approved by: *DSAJ* 07/19/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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FIRE ALARM ENGINEER
 DEEP BLUE INTEGRATION INC.
 3442 EMPRESA DR SUITE C
 SAN LUIS OBISPO, CA 93401
 TEL (888) 600-0324

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

SHEET TITLE

SITE DETAILS

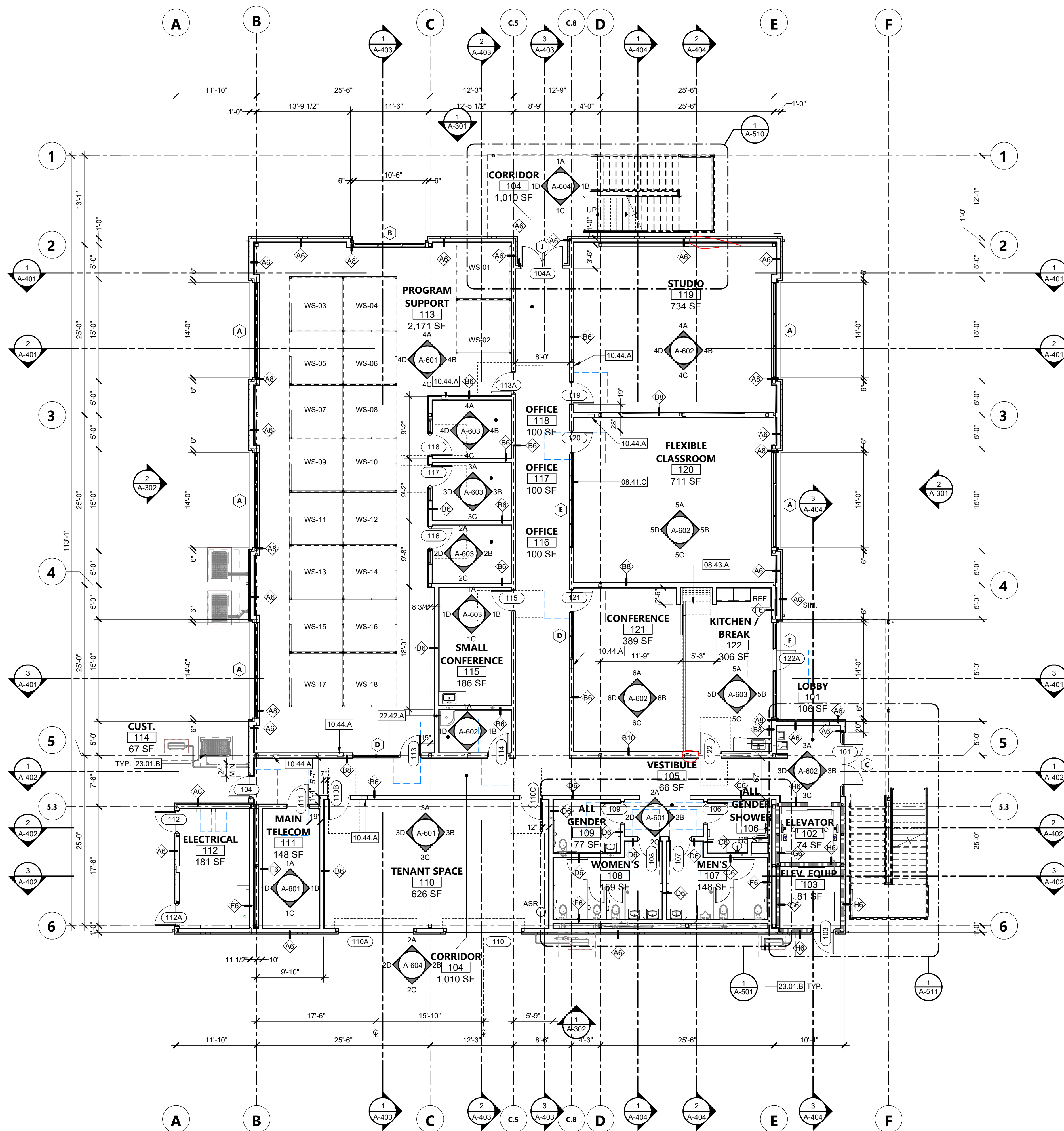
DRAWN BY: XX JOB NUMBER: 211793.01

SHEET NO.

A-112

DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS



FIRST LEVEL FLOOR PLAN 1/8" = 1'-0" 1

KEYNOTES

- 08.41.C INTERIOR STOREFRONT
- 08.43.A FOLDING WALL AND POCKET
- 10.44.A FIRE EXTINGUISHER WITH RECESSED FIRE EXTINGUISHER CABINET
- 22.42.A MOP SINK - PER PLUMBING DRAWINGS
- 23.01.B OUTDOOR MECHANICAL UNIT(S) - REFER TO MECHANICAL DRAWINGS

FLOOR PLAN LEGEND

- ROOM NAME** → ROOM NAME
 101 → ROOM NUMBER
 150 SF → ROOM AREA
- WALL TYPE TAG
 - DOOR TYPE TAG
 - WINDOW TYPE TAG
 - WS-XX → WORK STATION DESIGNATION (FURNITURE N.I.C.)
 - NON-RATED INTERIOR WALL
 - NON-RATED EXTERIOR WALL
 - ONE-HOUR RATED WALL

FLOOR PLAN GENERAL NOTES

1. FURNITURE N.I.C.
2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN.
3. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
4. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED.
5. FOR WALL TYPES SEE SHEET A-901.

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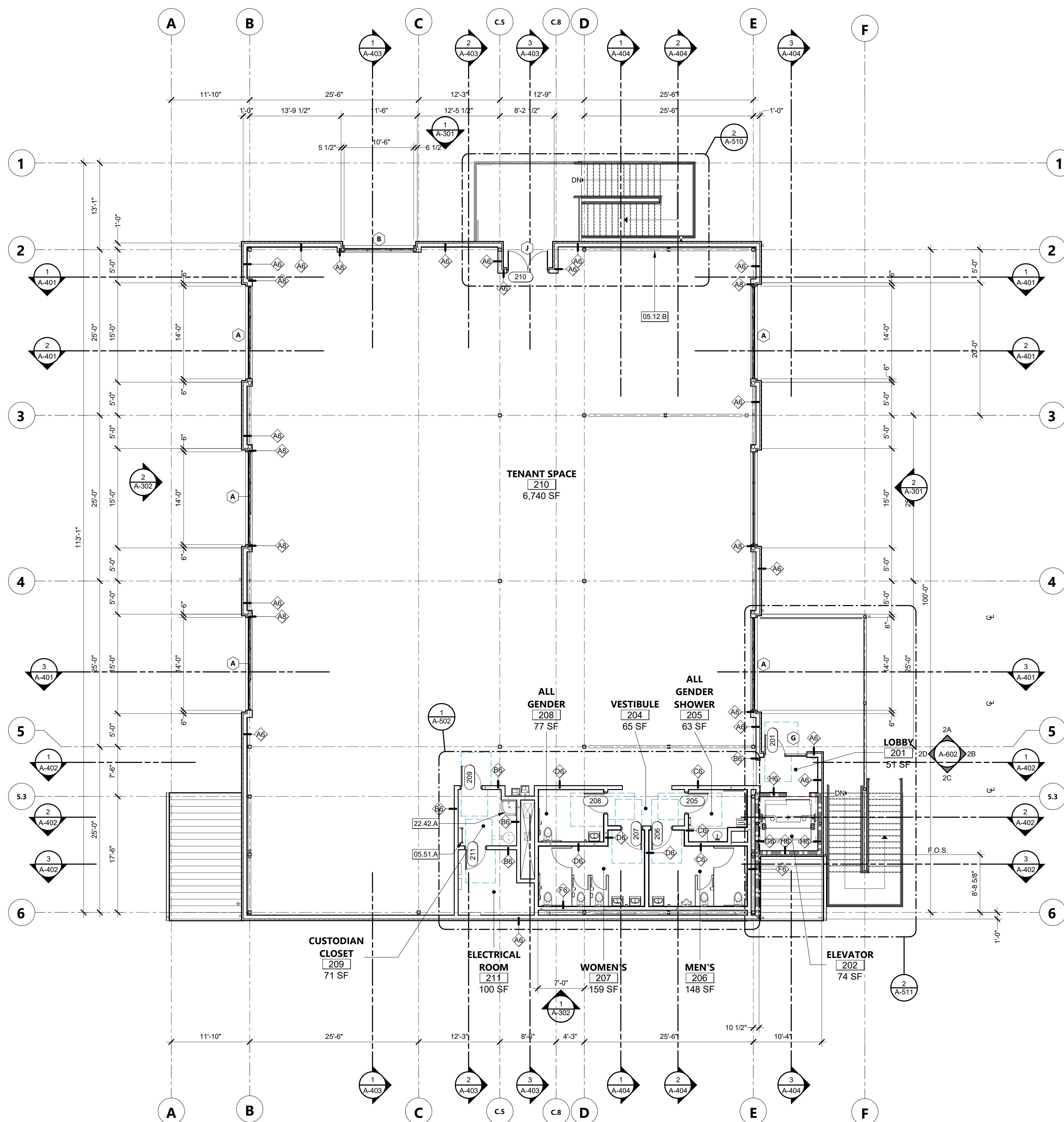
CAL POLY TECH
 PARK - PHASE 2
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SHEET TITLE
FIRST LEVEL FLOOR PLAN

DRAWN BY: MB JOB NUMBER: 21179.01

SHEET NO.
A-201

DATE: MARCH 31, 2023



SECOND LEVEL FLOOR PLAN 1/8" = 1'-0" 1

KEYNOTES

- 05.12.B BRACED FRAME, TYP. PER STRUCTURAL FRAME
- 05.51.A ALUMINUM ACCESS LADDER WITH COVER
- 22.42.A MOP SINK - PER PLUMBING DRAWINGS

FLOOR PLAN LEGEND

- ROOM NAME ROOM NAME
- 101 ROOM NUMBER
- 150 SF ROOM AREA
- AG WALL TYPE TAG
- 101AA DOOR TYPE TAG
- A WINDOW TYPE TAG
- A-1200/EQUIPMENT SCHEDULE
- TYP. (#) EQUIPMENT MARK
- RM SIGNAGE TAG
- NON-RATED INTERIOR WALL
- NON-RATED EXTERIOR WALL
- ONE-HOUR RATED WALL

FLOOR PLAN GENERAL NOTES

1. FURNITURE N.I.C.
2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN.
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ARCHITECT STAMP CONSULTANT STAMP

Alfonso Estrada
C-22474
RENEWED 10-31-23
STATE OF CALIFORNIA

NO.	DATE	DESCRIPTION

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SHEET TITLE

SECOND LEVEL FLOOR PLAN

DRAWN BY: MB JOB NUMBER: 21179.01

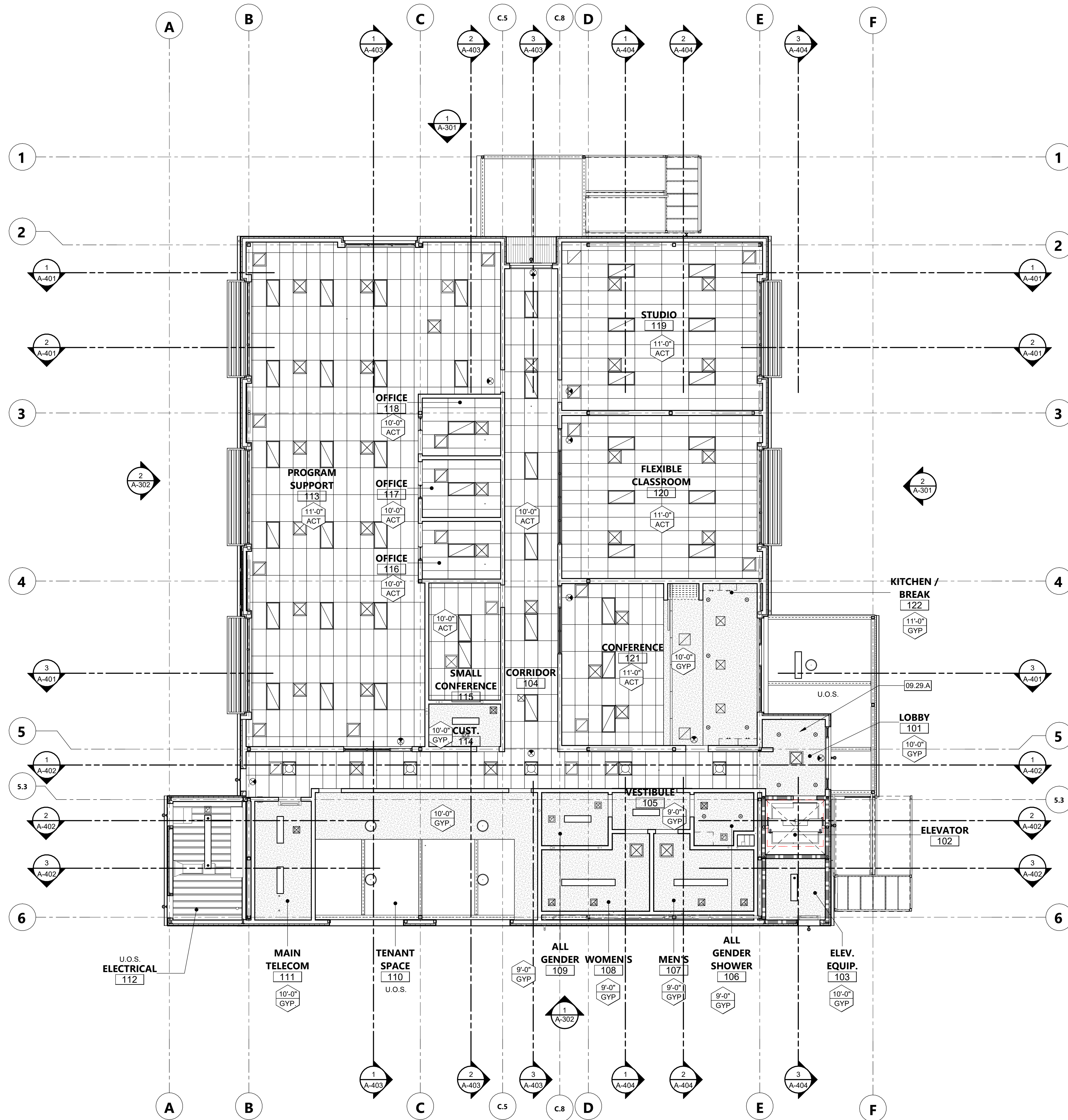
SHEET NO.

A-202

DATE: MARCH 31, 2023

FILE LOCATION: C:\Users\mbiancane\Documents\21179_01_Calpoly_DesignBuild Tech Park_A22_MBlancante19sisk.rvt

DATE PLOTTED: 4/20/2023 4:37:49 PM



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

KEYNOTES

09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED

CEILING LEGEND

- CEILING HEIGHT ABOVE FIN. FLOOR
- CEILING MATERIAL
- ACT - 2x4 SUSPENDED ACOUSTICAL PANEL CEILING
- GWB - FRAMED GYPSUM BOARD CEILING
- U.O.S. EXPOSED UNDERSIDE OF STRUCTURE
- ROOF ACCESS HATCH
- EXIT SIGN - SEE ALSO ELECTRICAL LIGHTING PLANS
- 2' x 2' SUSPENDED LIGHT FIXTURE
- 2' x 4' SUSPENDED LIGHT FIXTURE
- 1x4 LIGHT FIXTURE
- 1x8 LIGHT FIXTURE
- PENDANT LIGHTING
- SEMI RECESSED LIGHT FIXTURE
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- RETURN AIR GRILLE PER MECHANICAL DRAWINGS

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION

CEILING PLAN GENERAL NOTES

1. ANY EXPOSED DUCTS, PIPES TO BE PAINTED.
2. ANY EXPOSED TO WEATHER STEEL TO BE GALVANIZED AND PAINTED.
3. NO SURFACE MOUNTED BACK BOXES, PIPES OR CONDUIT.
4. FOR FRAMED GYP. BD. CEILING, SEE DETAILS 1/1S-106 AND 1/1S-106

AGENCY APPROVAL DSA# 03-122864

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PARK - PHASE 2
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San Luis Obispo, CA 93407

SHEET TITLE

**FIRST LEVEL
REFLECTED CEILING
PLAN**

DRAWN BY: MB JOB NUMBER: 21179.01

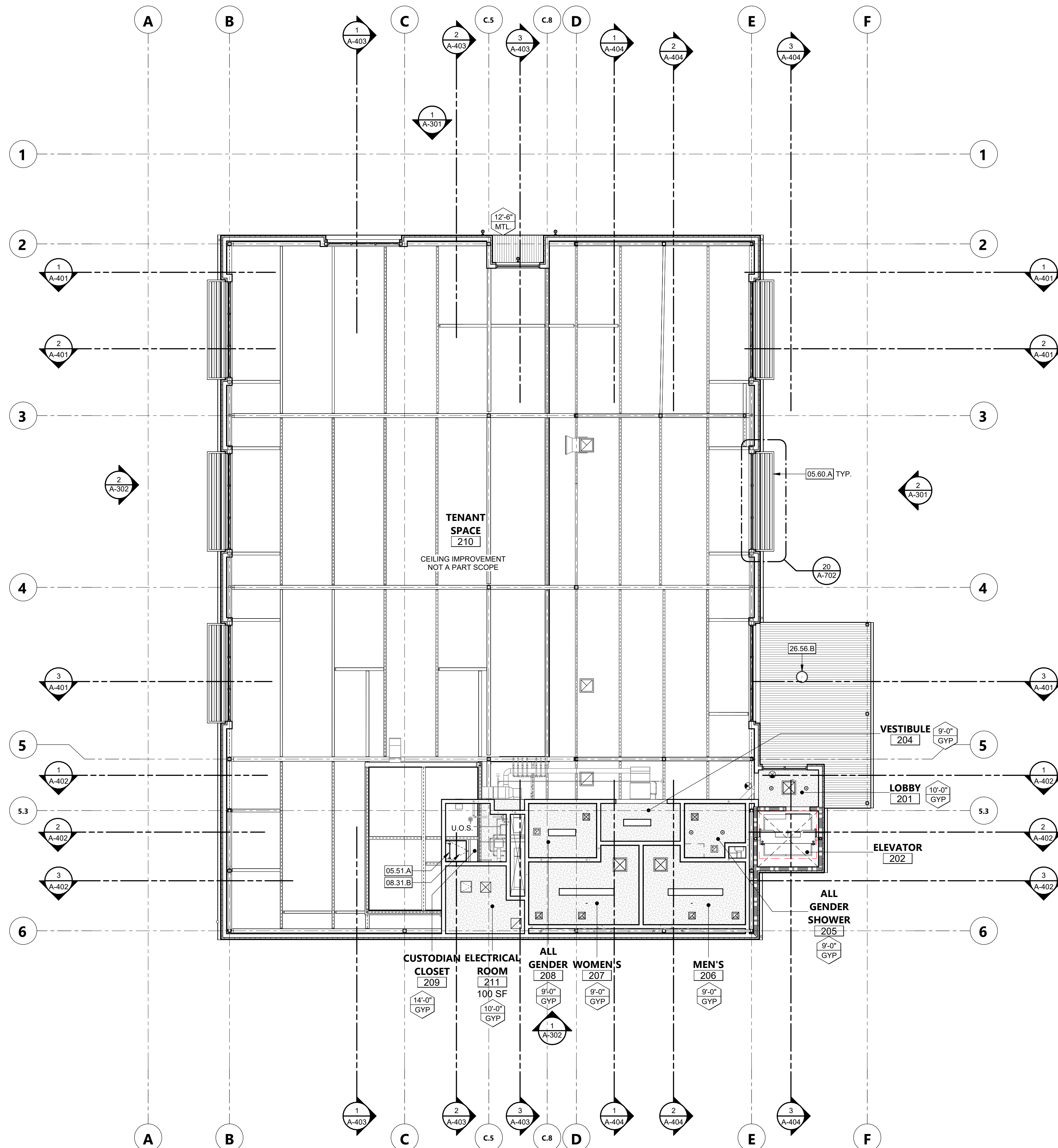
SHEET NO.

A-211

DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\mbiancane\Documents\21179_01_Calpoly_DesignBuild Tech Park_A22_Mblancane19sisk.rvt
DATE PLOTTED: 4/20/2023 4:37:50 PM



KEYNOTES

- 05.51.A ALUMINUM ACCESS LADDER WITH COVER
- 05.60.A METAL LOUVER EXTERIOR SHADE
- 08.31.B ROOF ACCESS HATCH DOOR - 36"x36"
- 26.56.B ELECTRICAL LIGHT FIXTURE

AGENCY APPROVAL DSA# 03-122884

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Approved by: *[Signature]* 07/18/2023

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CEILING LEGEND

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-

ARCHITECT STAMP

CONSULTANT STAMP

[Architect Stamp: Amber Smith, State of California, License No. C-22474, Exp. 10-31-25]

REVISIONS		
NO.	DATE	DESCRIPTION

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SHEET TITLE

SECOND LEVEL REFLECTED CEILING PLAN

DRAWN BY: MB JOB NUMBER: 21179.01

SHEET NO.

A-212

DATE: MARCH 31, 2023

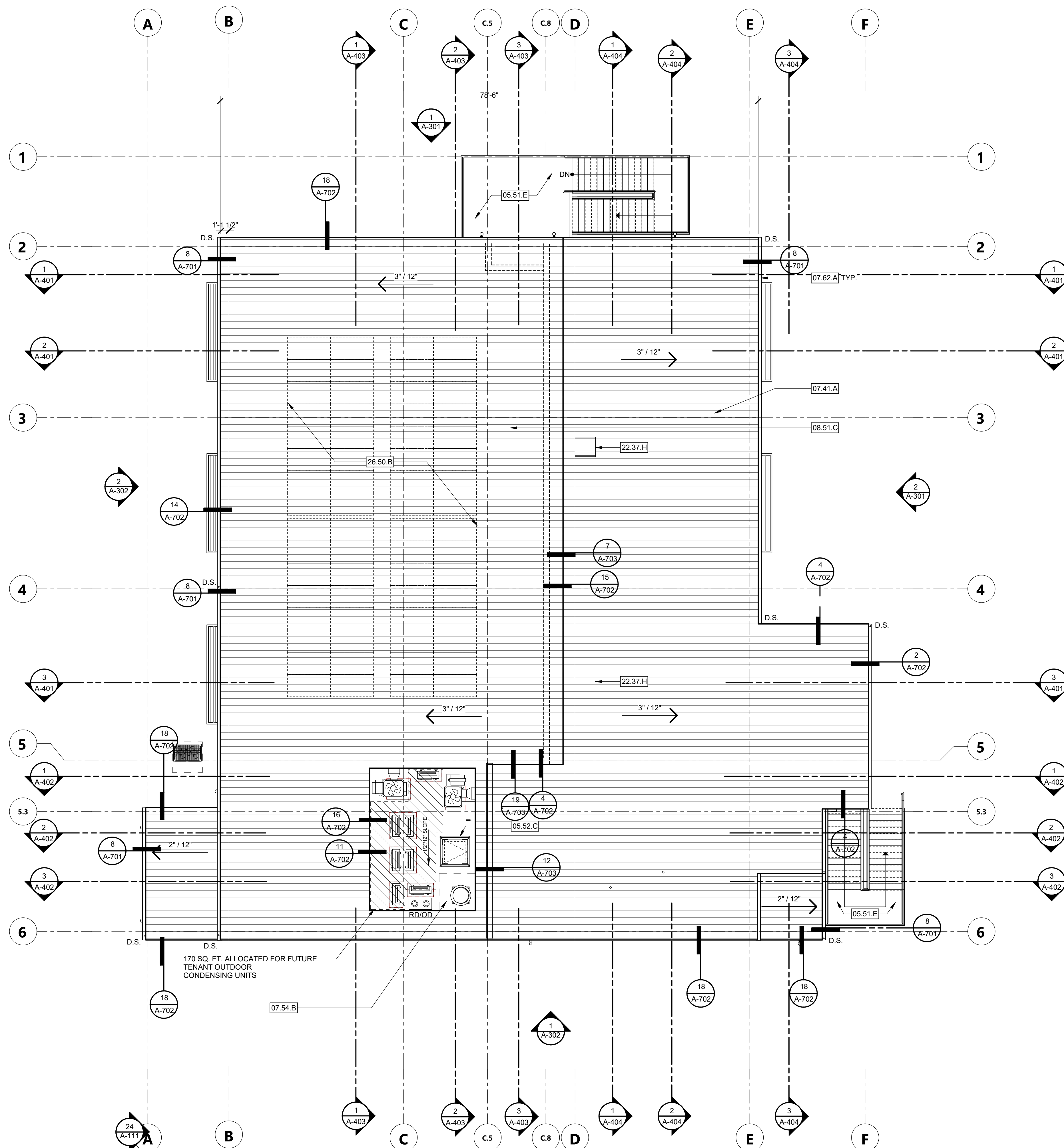
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CEILING PLAN GENERAL NOTES

1. ANY EXPOSED DUCTS, PIPES TO BE PAINTED.
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4. FOR FRAMED GYP. BD. CEILING, SEE DETAILS 1/S-106 AND 11/S-106



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 DATE PLOTTED: 4/13/2023 2:20:19 PM



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

KEYNOTES

- 05.51.E EXTERIOR STAIR LANDING
- 05.52.C ROOF HATCH PROTECTION RAILING SYSTEM - BY BIL-GUARD 2.0 OR SIMILAR.
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.54.B SINGLE PLY ROOFING PER SPECIFICATIONS
- 07.62.A RAIN GUTTER
- 08.51.C NORTHEAST FACING CLERESTORY, SEE EXTERIOR ELEVATIONS.
- 22.37.H ROOF HOOD ON CURB, PER MECHANICAL DRAWINGS
- 26.50.B DASHED LINE INDICATES APPROXIMATE ZONE FOR FUTURE SOLAR PANELS, ROOF STRUCTURE AND ELECTRICAL SYSTEM TO BE SOLAR READY, SOLAR SYSTEM NOT PART OF THIS PROJECT AND APPROVAL SOLAR PV SYSTEM TO BE CONSTRUCTED UNDER A SEPARATE PERMIT

ROOFING LEGEND

- O.D. OVERFLOW DRAIN
- R.D. ROOF DRAIN
- T.O.P. TOP OF PARAPET
- T.O.S. TOP OF STEEL; UNDERSIDE OF DECK (U.N.O.)
- D.S. DOWN SPOUT
- CRICKET
- R.D. O.D. ROOF AND OVERFLOW DRAIN
- ROOF ACCESS HATCH FOR USE WITH CLASS "A" ROOF
- METAL SEAM ROOF

- ALL ROOFING SHALL BE CLASS "A"

ROOF PLAN GENERAL NOTES

1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION

AGENCY APPROVAL DSAE 03-122884



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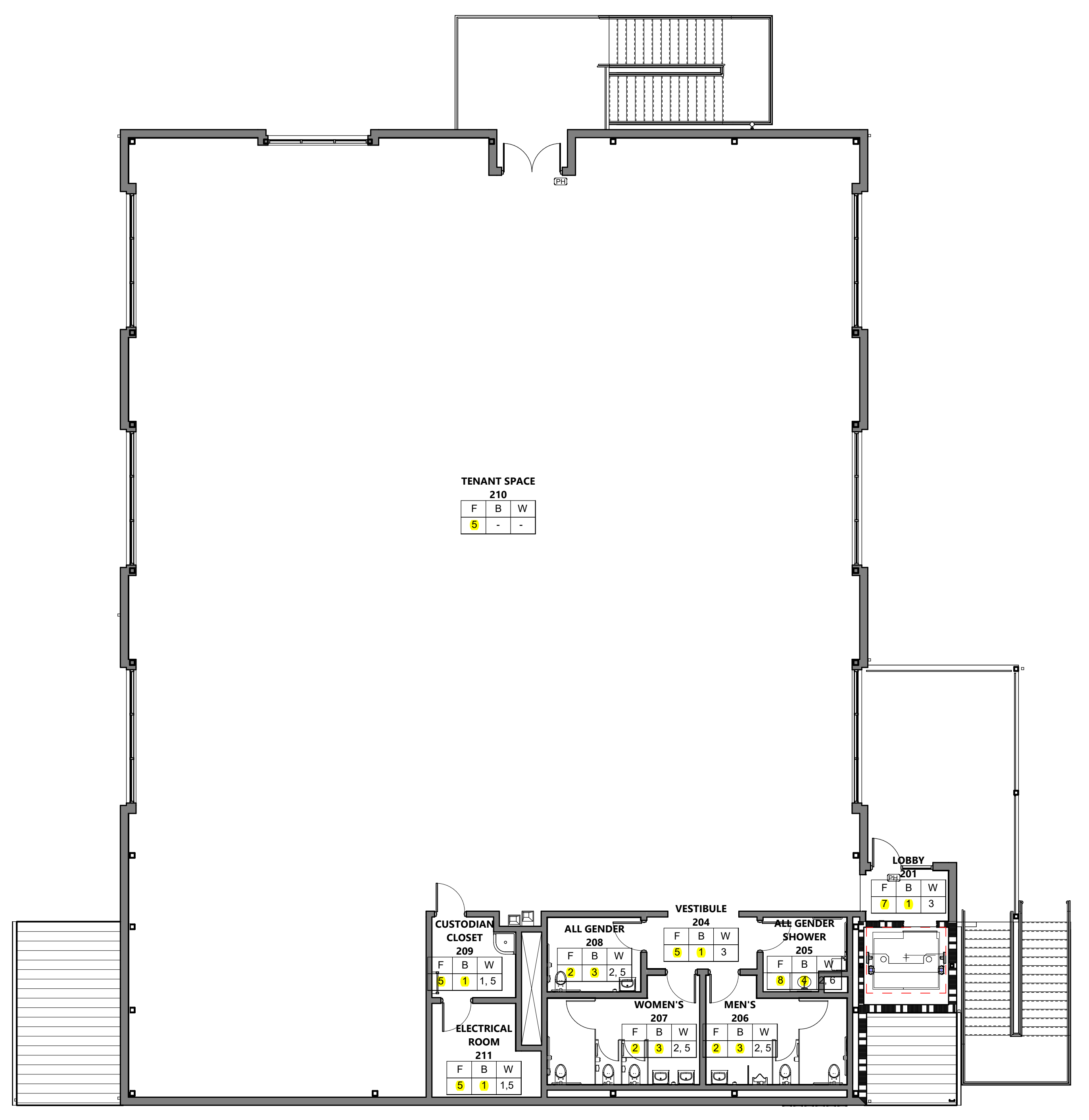
SHEET TITLE
ROOF PLAN

DRAWN BY: MB JOB NUMBER: 21179.01
 SHEET NO.
A-221
 DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS



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FINISH PLAN - SECOND FLOOR 1/8" = 1'-0" 2

FINISH PLAN - FIRST FLOOR 1/8" = 1'-0" 1

FLOOR FINISHES (F)

(F)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
1	CARPET TILE 24" x 24" 12' x 36'	MOHAWK	GRAVITATIONAL TILE	COASTAL GT343-955	096813	EXPEDITION COLLECTION
2	SHEET VINYL	TARKETT	STANDARD PLUS	MORNING DOVE 0911	096500	HOMOGENEOUS SHEET FLOORING
3	6" x 48" PLANK LVT	SHAW CONTRACT	TERRAIN II	WILLOW 00170	096500	BRICK FORMAT
4	12" x 12" PORCELAIN TILE DOES NOT OCCUR	CROSSVILLE	TILE - BLOX 2.0	CB08-SEA	093013	
5	SEALED CONCRETE					
6	STAINED CONCRETE					
7	POLISHED CONCRETE					
8	EPOXY FLOORING					

BASE FINISHES (B)

(B)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
1	4" RESILIENT BASE	BURKE	SATIN	TBD	096500	
2	6x14 PORCELAIN TILE DOES NOT OCCUR	CROSSVILLE	TILE		093013	
3	COVERED SHEET VINYL FLOORING					
4	COVERED EPOXY FLOORING					

WALL FINISHES (W)

(W)	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
1	GYPSUM WALL BOARD	USG CORPORATION	5/8" TYPE 'X'	PAINTED	092900	
2	WATER RESISTANT GYPSUM BACKING BOARD	USG CORPORATION	5/8" TYPE 'X'	PAINTED	092900	
3	IMPACT RESISTANT GYPSUM BOARD	USG CORPORATION	5/8" TYPE 'X'	PAINTED	092900	
4	SOUND CONTROL GYPSUM BOARD	PARCO CORPORATION	5/8" TYPE 'X'	PAINTED	092900	
5	FRP	MARLITE	PANEL SYSTEM	WHITE	097000	GENTLY PEBBLED, HIGH GLOSS
6	PORCELAIN TILE	CROSSVILLE	TILE	WHITE	093013	
7	FIRE RATED PLYWOOD		3/4" FIRE RATED PLYWOOD BACKBOARD	FLAT WHITE		SEE ELECTRICAL PLAN FOR MORE INFORMATION

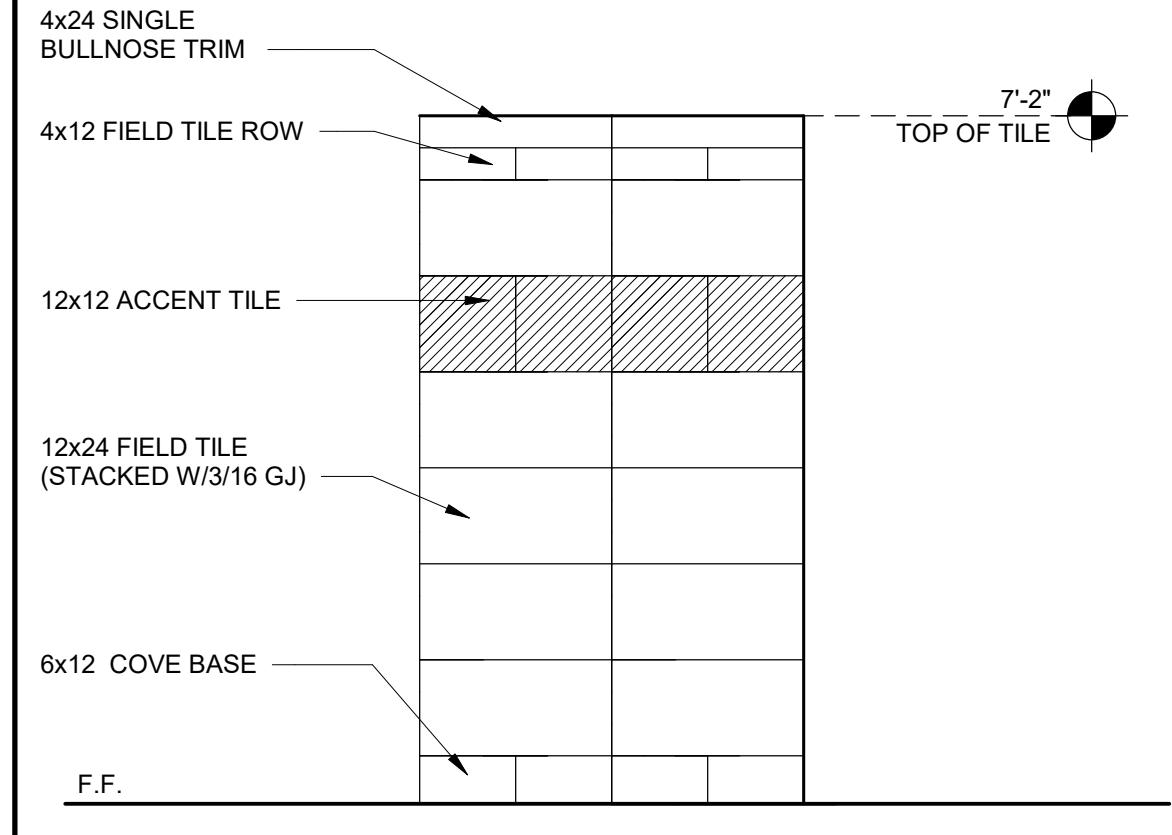
FROM DECEMBER 2022 DRAWINGS

NO.	DESCRIPTION	MANUFACTURER	PRODUCT STYLE	COLOR	SPECIFICATION SECTION	REMARKS
2	CARPET TILE 12" x 36"	MOHAWK	GRAVITATIONAL TILE	COASTAL GT343-955	096813	EXPEDITION COLLECTION
3	12" x 12" RESILIENT FLOORING	ARMSTRONG	VCT	EXCELON SDT	096500	STATIC DISSIPATIVE

FINISH PLAN GENERAL NOTES

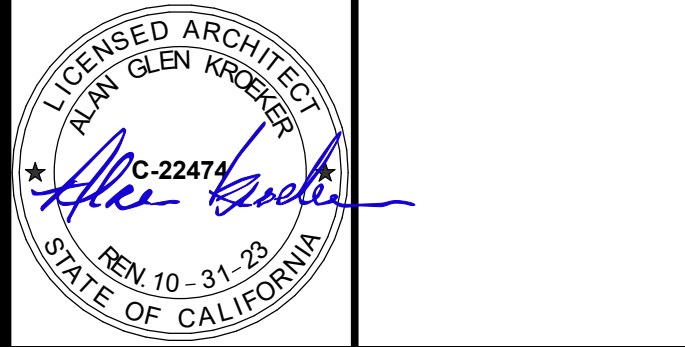
- CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING MATERIAL DIMENSIONS AT EACH PARTITION IN THE FIELD AS RELATED TO THE OVERALL FINAL PARTITION DIMENSION, PRIOR TO DOOR AND WINDOW SUBMITTALS.
- FOR MATERIAL FINISHES AND LOCATION OF FINISHES, REFER TO FINISH PLAN, INTERIOR ELEVATIONS AND FINISH SCHEDULE.
- SPECIFICATIONS SHALL SUPERCEDE DIMENSIONS IN THIS DETAIL AS NECESSARY; CONTRACTOR TO VERIFY.
- PAINTING SHALL BE PER CAMPUS STANDARD SPECIFICATIONS SECTION 09 91 00 - PAINTING

BASIS OF DESIGN TILE MATERIAL:
 CROSSVILLE-COLOR BLOX 2.0
 COLOR SELECTION:
 WALL FIELD & TRIM TILE: CBX03-SLIMKY
 ACCENT TILE: CB08-SEA OTTER



WALL TILE PATTERN 1/2" = 1'-0" 5

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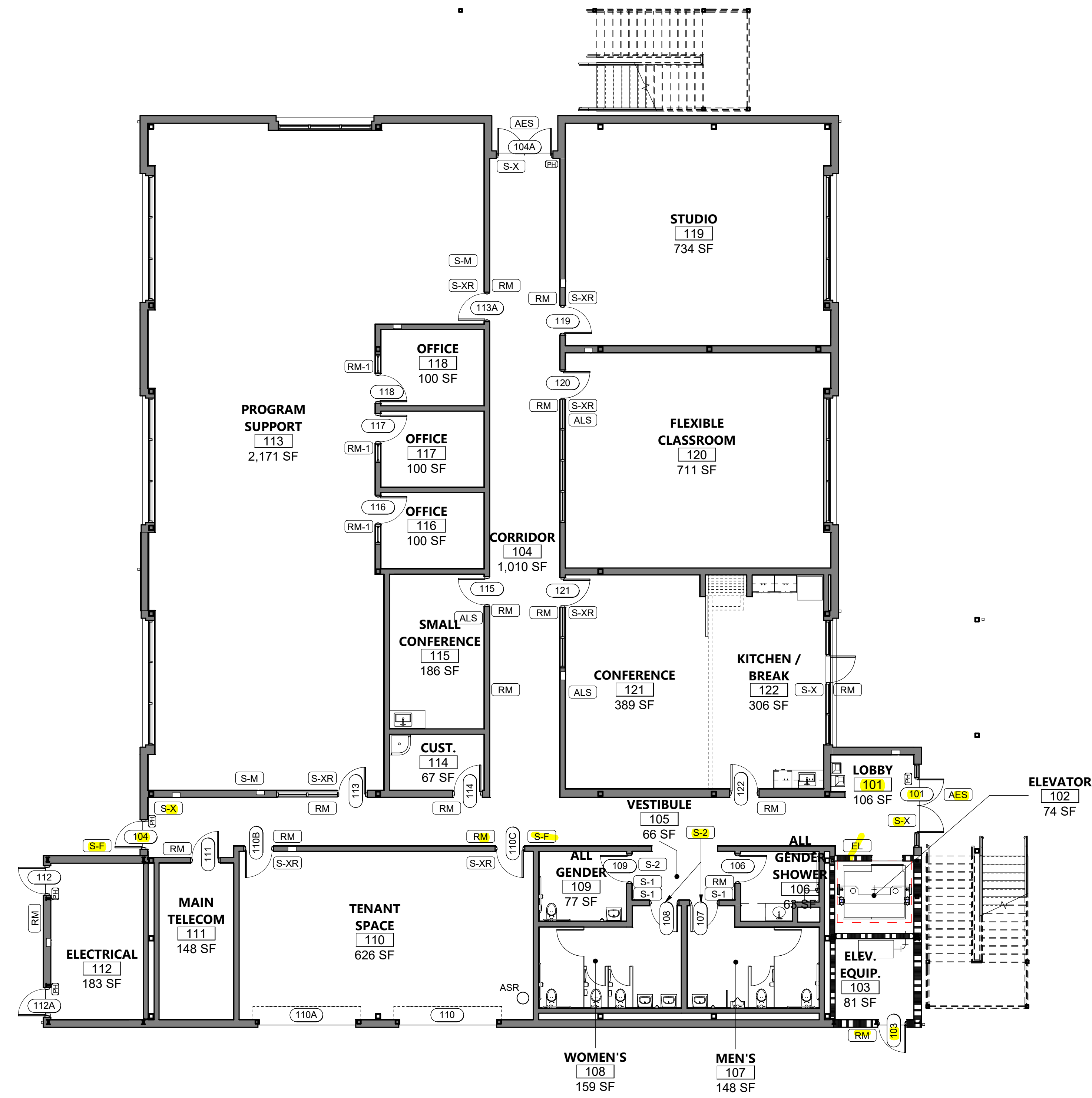
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FINISH PLANS

DRAWN BY: MB JOB NUMBER: 21179.01

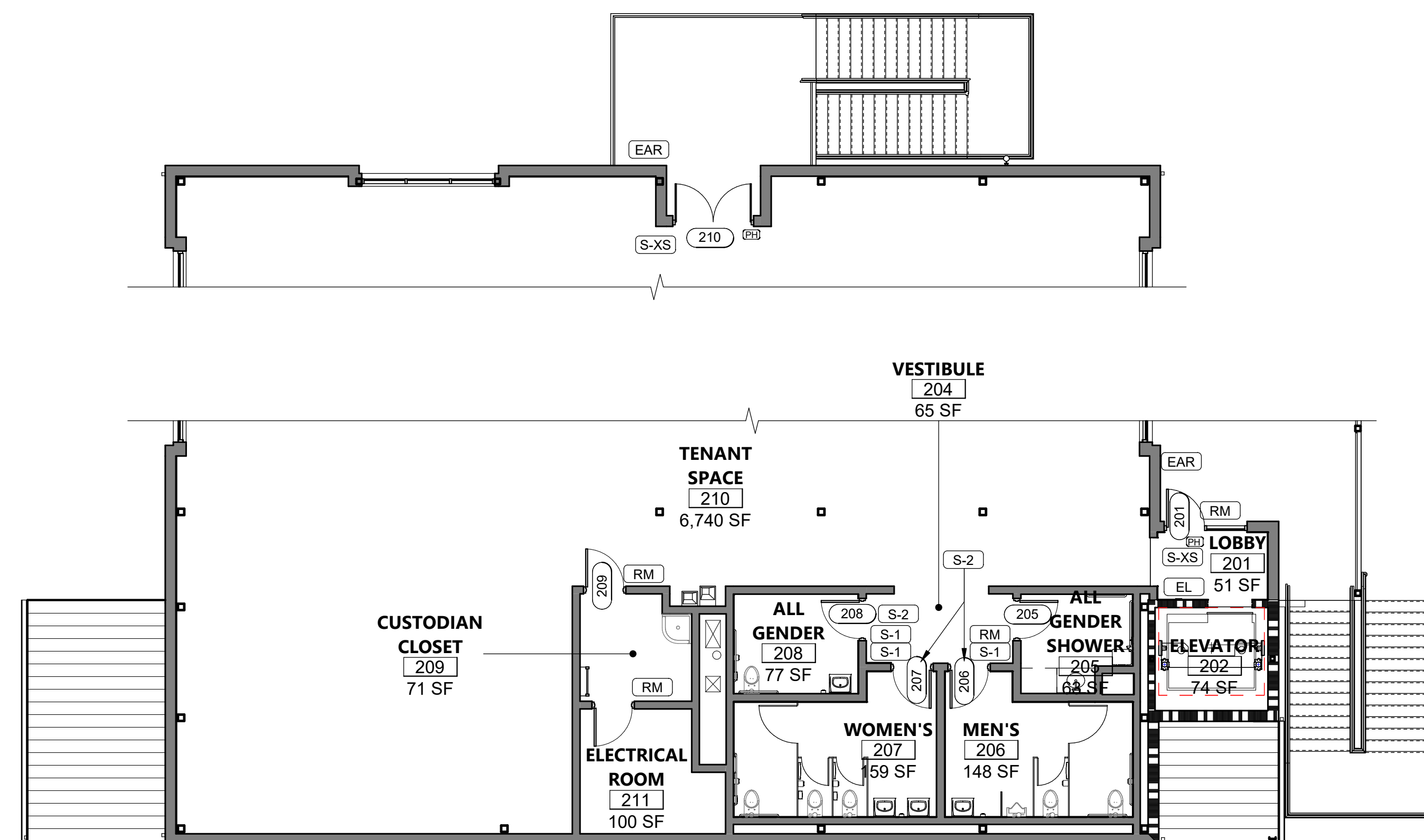
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A-251

DATE: MARCH 31, 2023

DATE PLOTTED: 4/13/2023 2:20:28 PM FILE LOCATION: C:\Users\parmentrout\Documents\21179_01_Calpoly_Design\Build Tech Park_A22_parmtrout.rvt



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



SIGNAGE PLAN - 2ND FLOOR 1/8" = 1'-0" 2

ASSISTIVE LISTENING DEVICES

ASSISTIVE LISTENING SYSTEM RATIO TABLE

ROOM #	ROOM NAME	OCC. #
115	SMALL CONFERENCE	13
120	FLEXIBLE CLASSROOM	36
121	CONFERENCE	26
OCCUPANT TOTAL:		75

NOTE:
 THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO FOUR PERCENT OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO PER CBC 11B-219.3. 75(04) = 3 - PROVIDE (4)
 TWENTY-FIVE PERCENT MINIMUM OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATIBLE PER CBC 11B-706.3. 3(25) = 1 - PROVIDE (2)

SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL.

SIGNAGE LEGEND

- (RM) ROOM NAME / NUMBER SIGN, SEE DETAILS (2 A-924)
- (RM-1) PAPER INSERT DOOR ID SIGNAGE, SEE DETAILS (20 A-924)
- (S-1) TOILET ROOM DOOR SIGN, SEE DETAILS (18 A-924)
- (S-2) TOILET ROOM WALL SIGN, SEE DETAILS (13 A-924)
- (S-X) TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS (7 A-924)
- (S-XR) TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS (10 A-924)
- (S-XS) TACTILE "EXIT STAIR" SIGN (INTERIOR), SEE DETAILS (10 A-924)
- (S-M) "MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL (15 A-924)
- (S-F) "FIRE SPRINKLER RISER INSIDE" SIGN, SEE DETAIL (21 A-924)
- (ALS) ASSISTIVE LISTENING SIGN, SEE DETAIL (14 A-924)
- (EAR) EXTERIOR AREA FOR ASSISTED RESCUE SIGN, SEE DETAIL (10 A-924)
- (AES) ACCESSIBLE ENTRANCE SIGN, SEE DETAIL (11 A-924)
- (EL) ELEVATOR SIGNAGE, SEE DETAILS ON SHEET A-513

NOTE: SEE SHEET A-923 FOR SIGNAGE DETAILS, U.O.N. (UNLESS OTHERWISE NOTED)

AGENCY APPROVAL DSAE 03-122884

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Approved by: *DS* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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 KTUA
 540 E. BETTERAVIA ROAD, SUITE D 22
 SANTA MARIA, CA 92103
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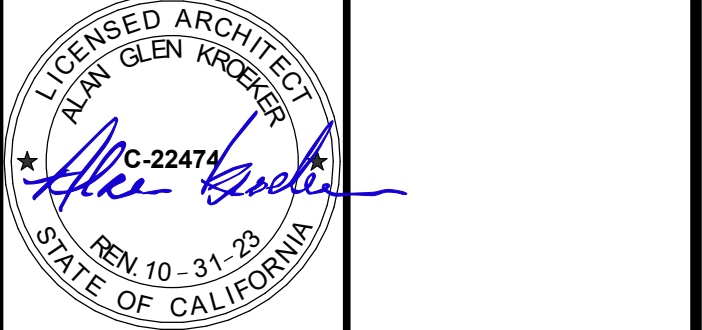
STRUCTURAL ENGINEER
 195X STRUCTURAL DIVISION
 1119 GARDEN STREET
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SHEET TITLE

SIGNAGE PLAN

DRAWN BY: MB JOB NUMBER: 21179.01

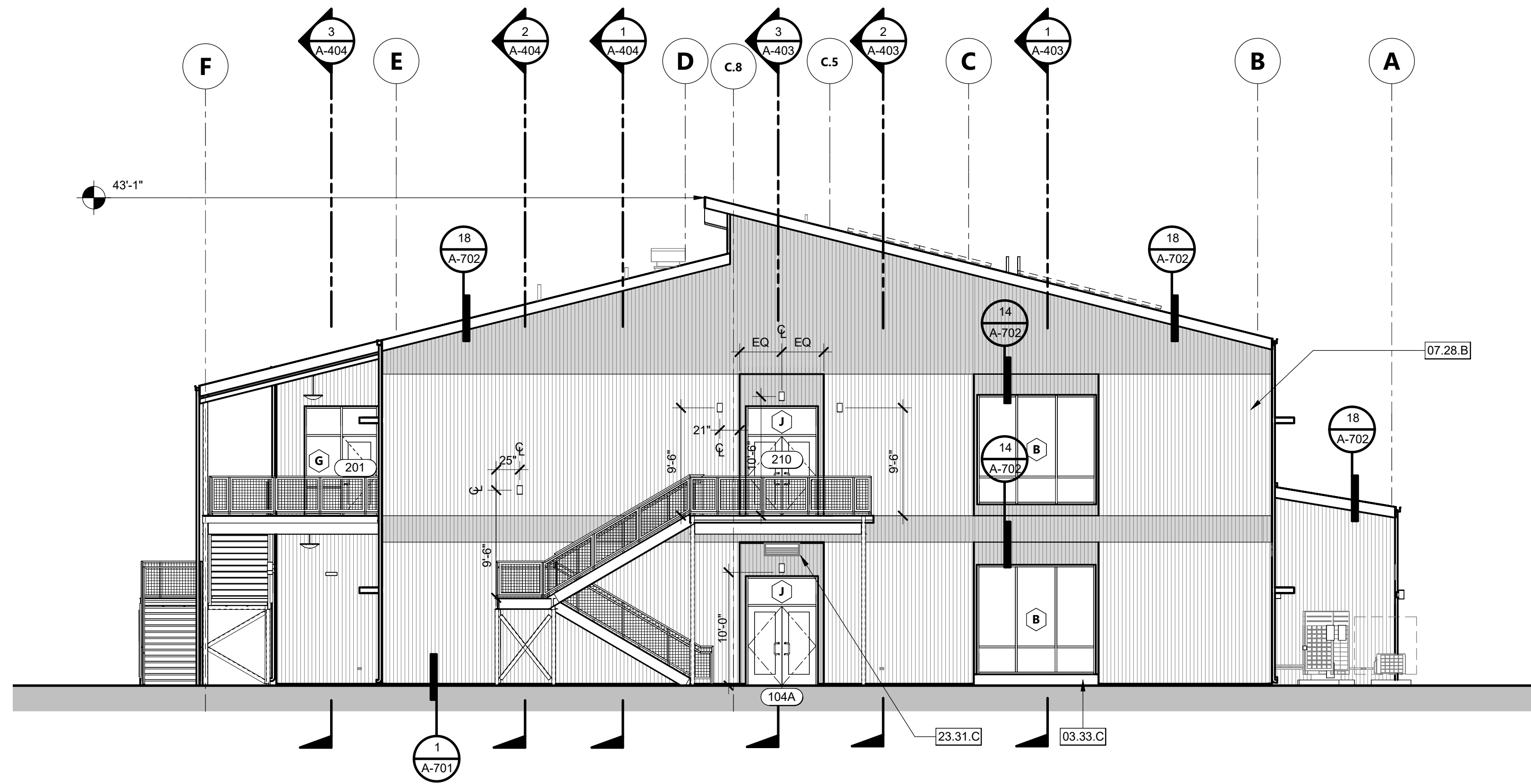
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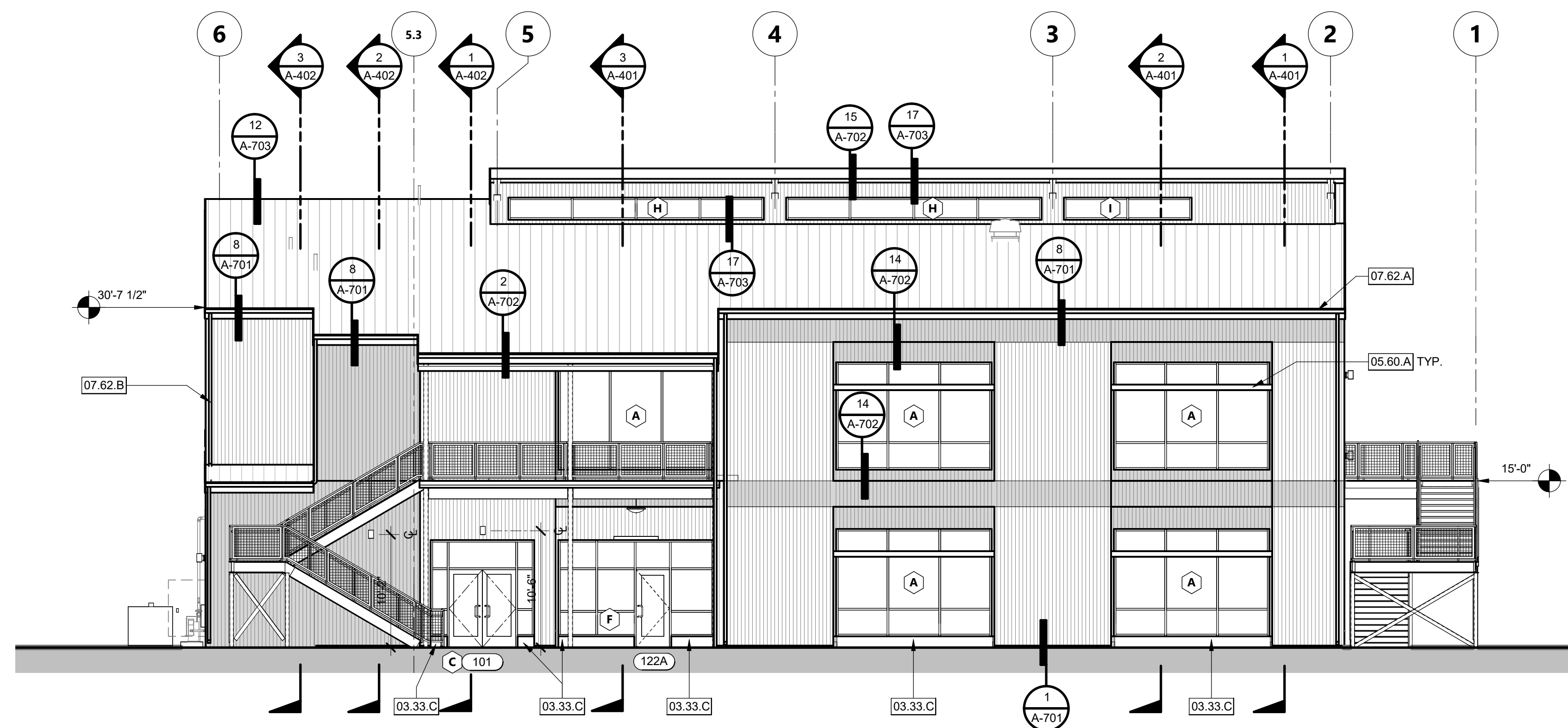
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CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/25/2023 11:43:32 AM FILE LOCATION: C:\Users\parmentrout\Documents\21179.01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt



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



EAST ELEVATION 1/8" = 1'-0" 2

KEYNOTES

- 03.33.C CONCRETE CURB - EXPOSED EXTERIOR SIDE TO BE SMOOTH PER SPECIFICATIONS
- 05.60.A METAL LOUVER EXTERIOR SHADE
- 07.28.B METAL WALL PANELS - PER SPECIFICATIONS
- 07.62.A ALUMINUM RAIN GUTTER
- 07.62.B 3" x 4" ALUMINUM DOWNSPOUT, PREFINISHED TO MATCH ALUMINUM GUTTERS
- 23.31.C WALL LOUVER PER MECHANICAL DRAWINGS, PAINT.

AGENCY APPROVAL **CSU** 03-122884

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EXTERIOR ELEVATIONS GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-802.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. EXTERIOR CEMENT PLASTER TO BE PAINTED.

PROJECT OWNER & TITLE

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SHEET TITLE

EXTERIOR ELEVATIONS

DRAWN BY: MB JOB NUMBER: 21179.01

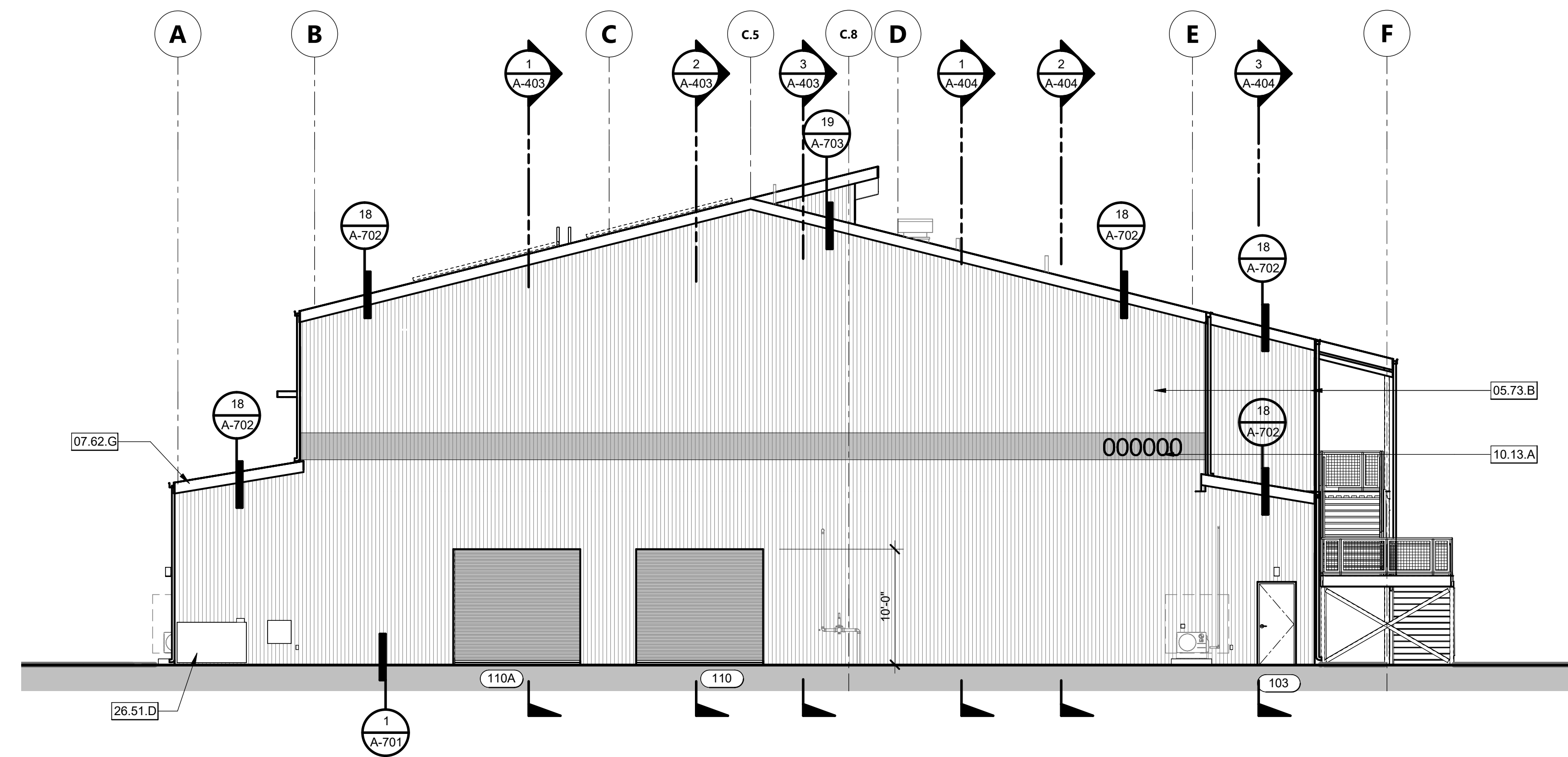
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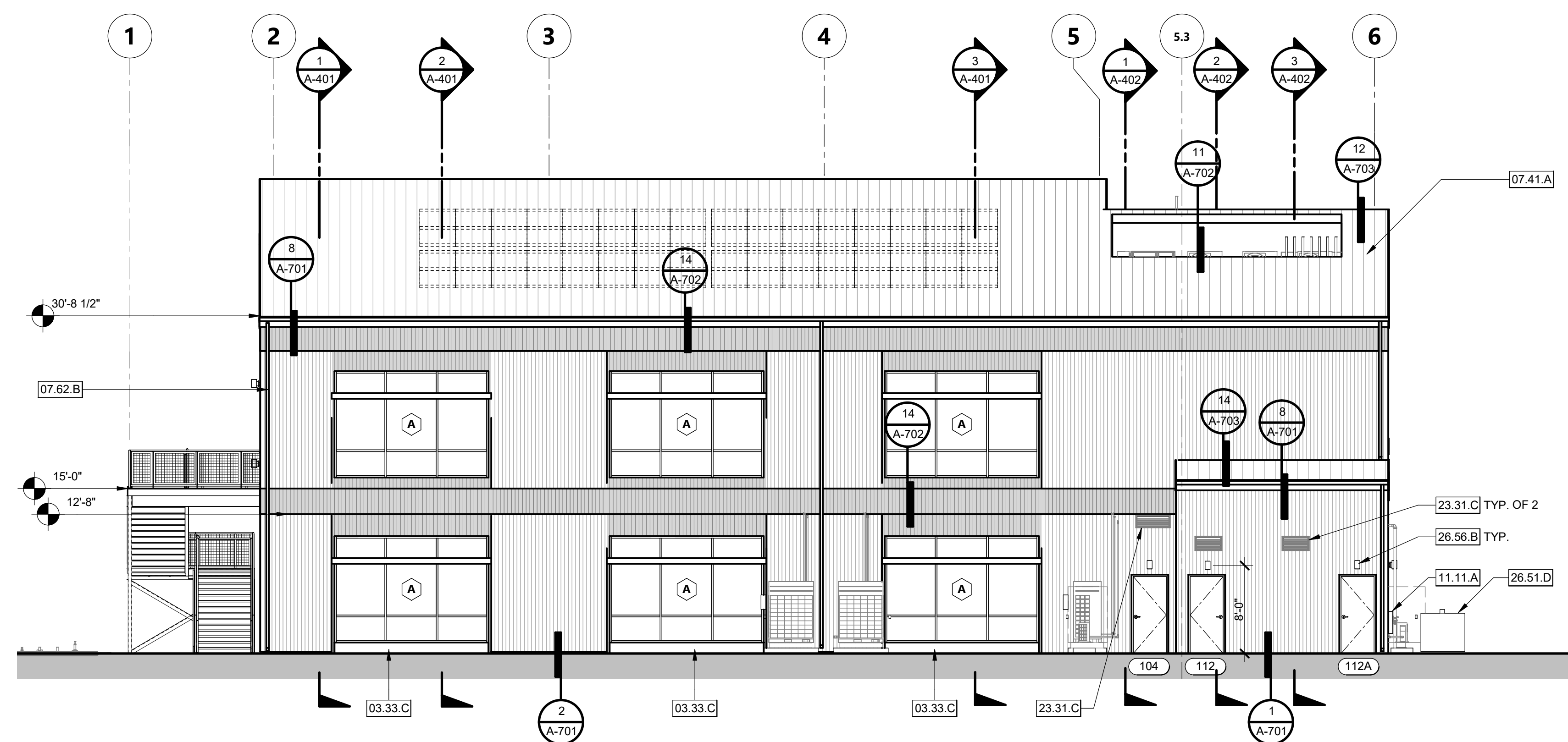
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CONSTRUCTION DOCUMENTS

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SOUTH ELEVATION 1/8" = 1'-0" 1



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

KEYNOTES

- 03.33.C CONCRETE CURB - EXPOSED EXTERIOR SIDE TO BE SMOOTH PER SPECIFICATIONS
- 05.73.B CORRUGATED METAL SIDING
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.62.B 3" x 4" ALUMINUM DOWNSPOUT, PREFINISHED TO MATCH ALUMINUM GUTTERS
- 07.62.G FASCIA BOARD
- 10.13.A 18" STAND-OFF METAL LETTERING FOR ADDRESS, OWNER TO DETERMINE FONT AND NUMBERING
- 11.11.A WALL LOUVER PER MECHANICAL DRAWINGS, PAINT.
- 23.31.C 300 KVA PAD-MOUNTED TRANSFORMER
- 26.51.D ELECTRICAL LIGHT FIXTURE

AGENCY APPROVAL DSAE 03-122884



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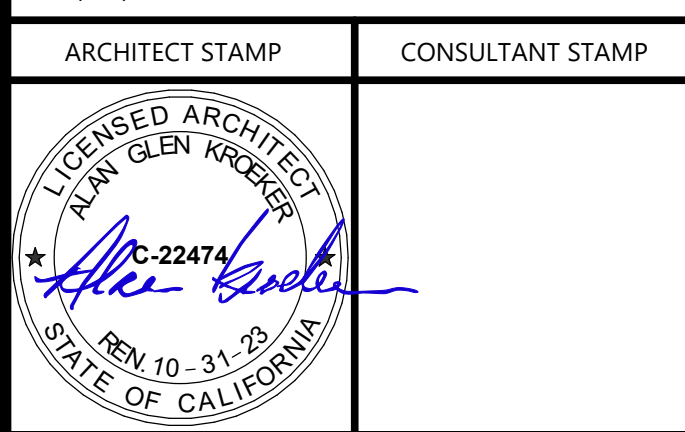
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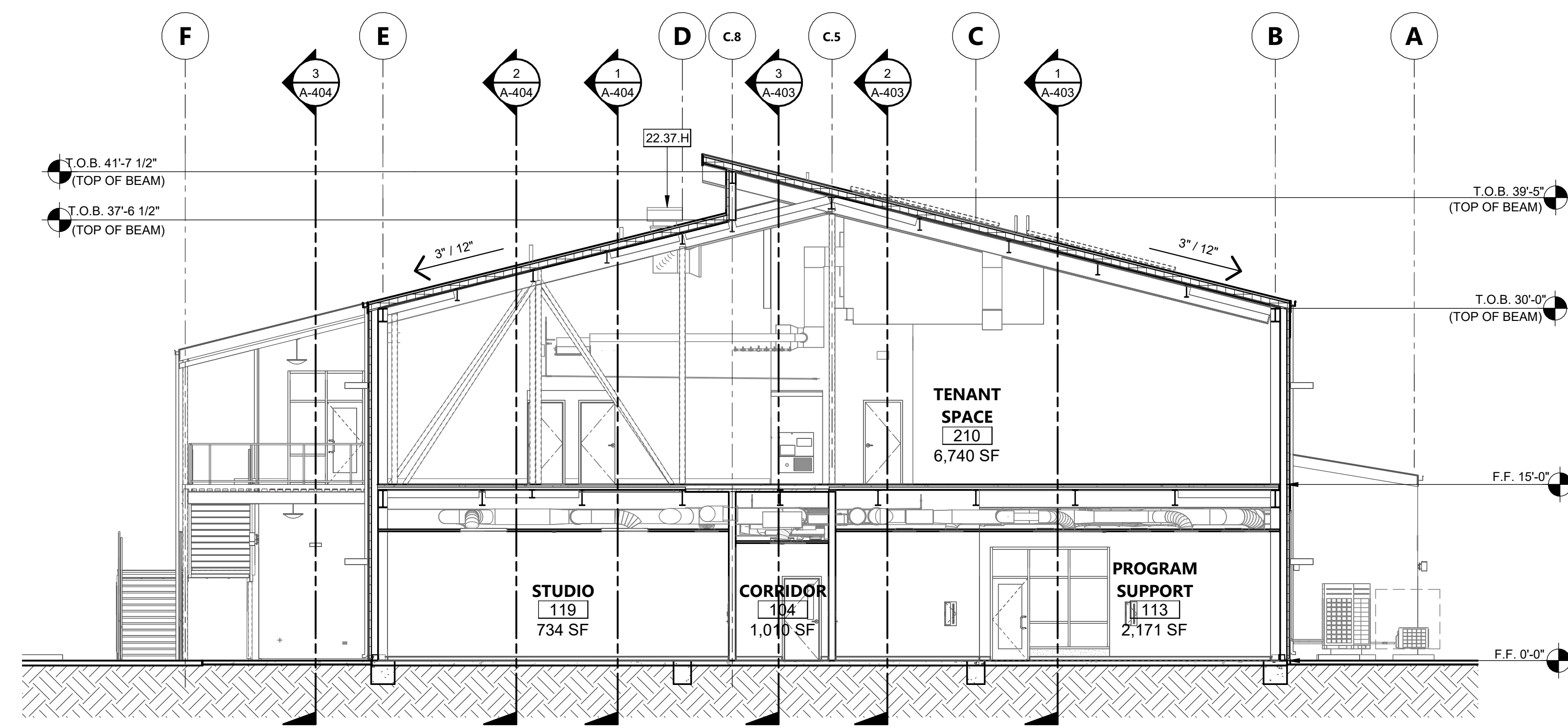
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EXTERIOR ELEVATIONS

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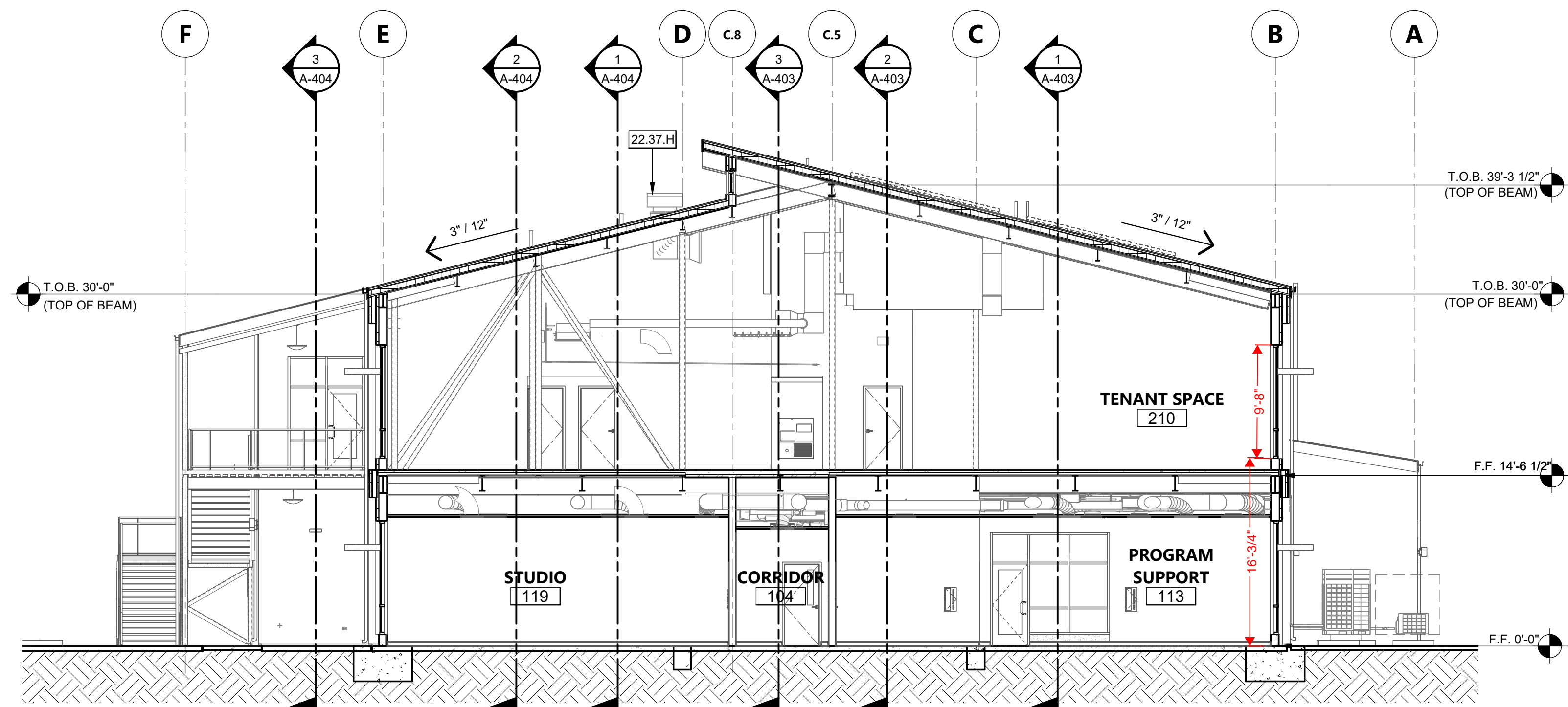
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DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

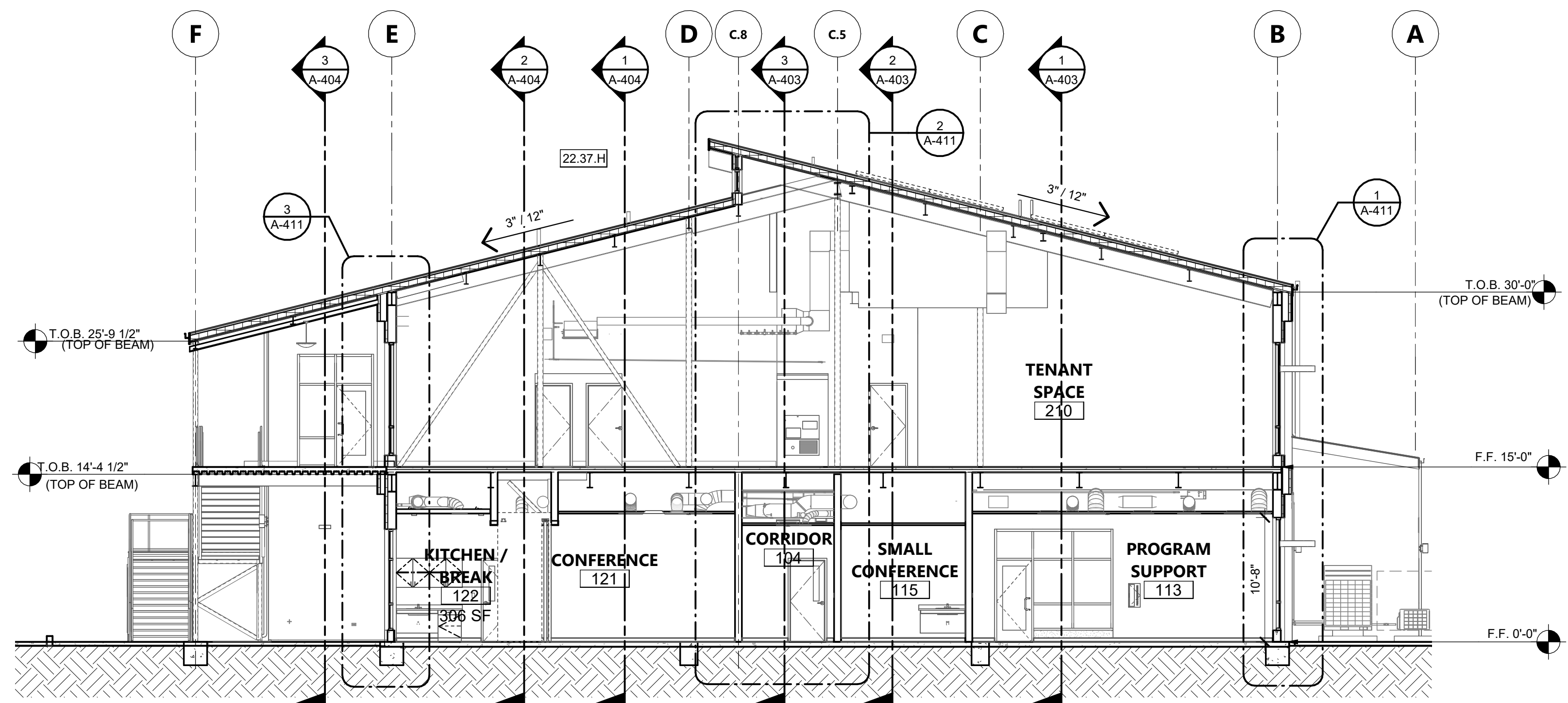
DATE PLOTTED: 4/20/2023 4:38:01 PM FILE LOCATION: C:\Users\mbiancane\Documents\21179_01_Calpoly_Design\Build Tech Park_A22_MBlancante19six.rvt



BUILDING SECTION 1/8" = 1'-0" 1



BUILDING SECTION 1/8" = 1'-0" 2



BUILDING SECTION 1/8" = 1'-0" 3

KEYNOTES

22.37.H ROOF HOOD ON CURB, PER MECHANICAL DRAWINGS

AGENCY APPROVAL DSA# 03-122864

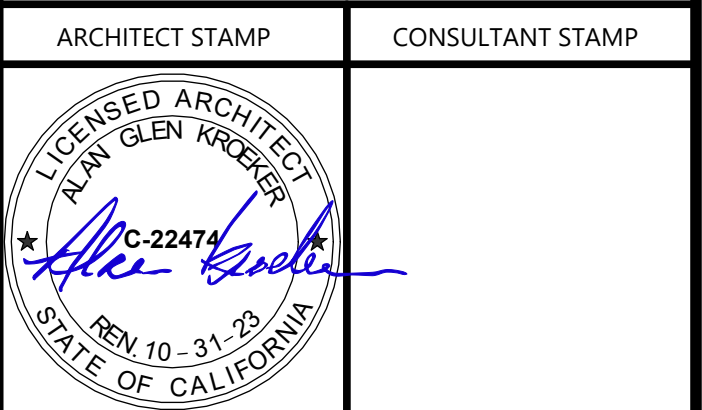


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REVISIONS		
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SHEET TITLE
OVERALL TRANSVERSE BUILDING SECTIONS

DRAWN BY: MB JOB NUMBER: 21179.01

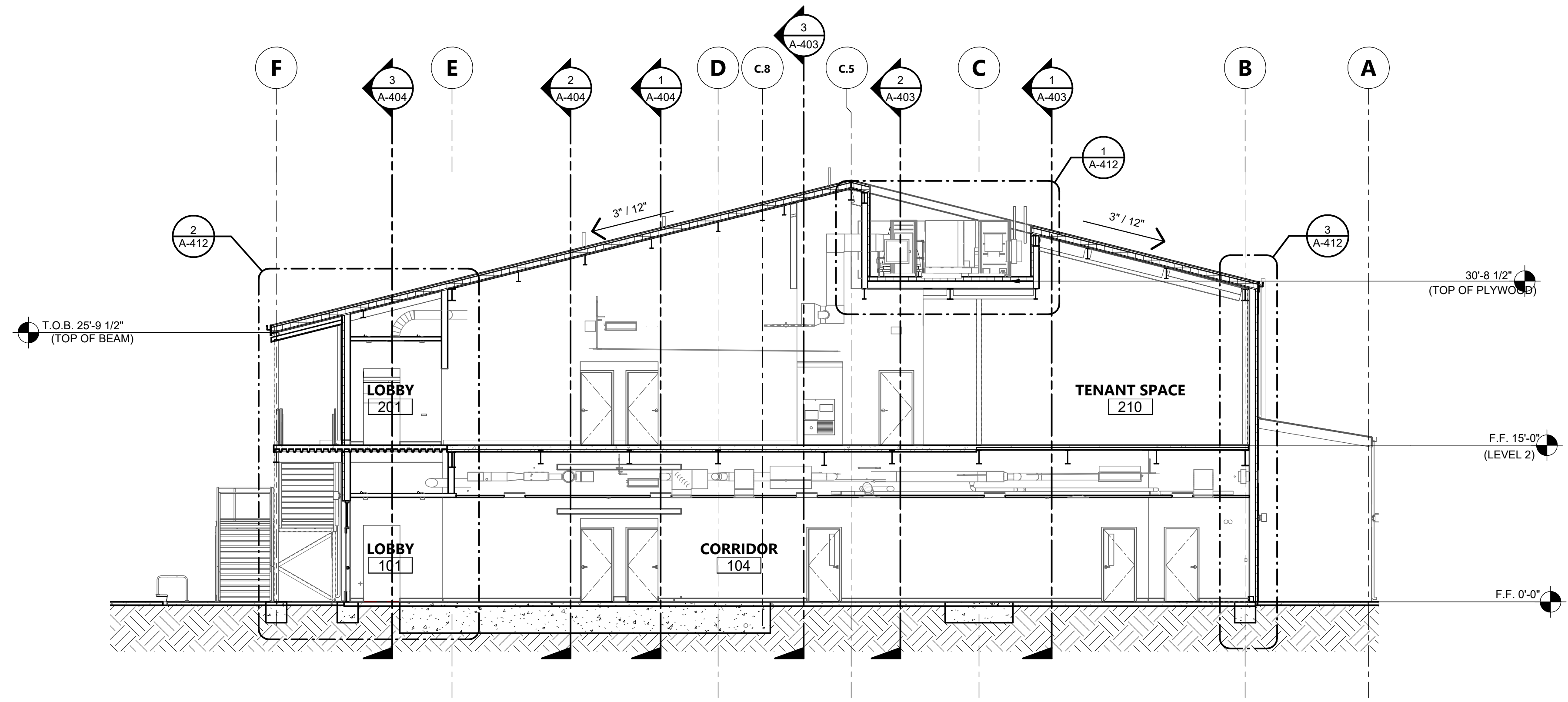
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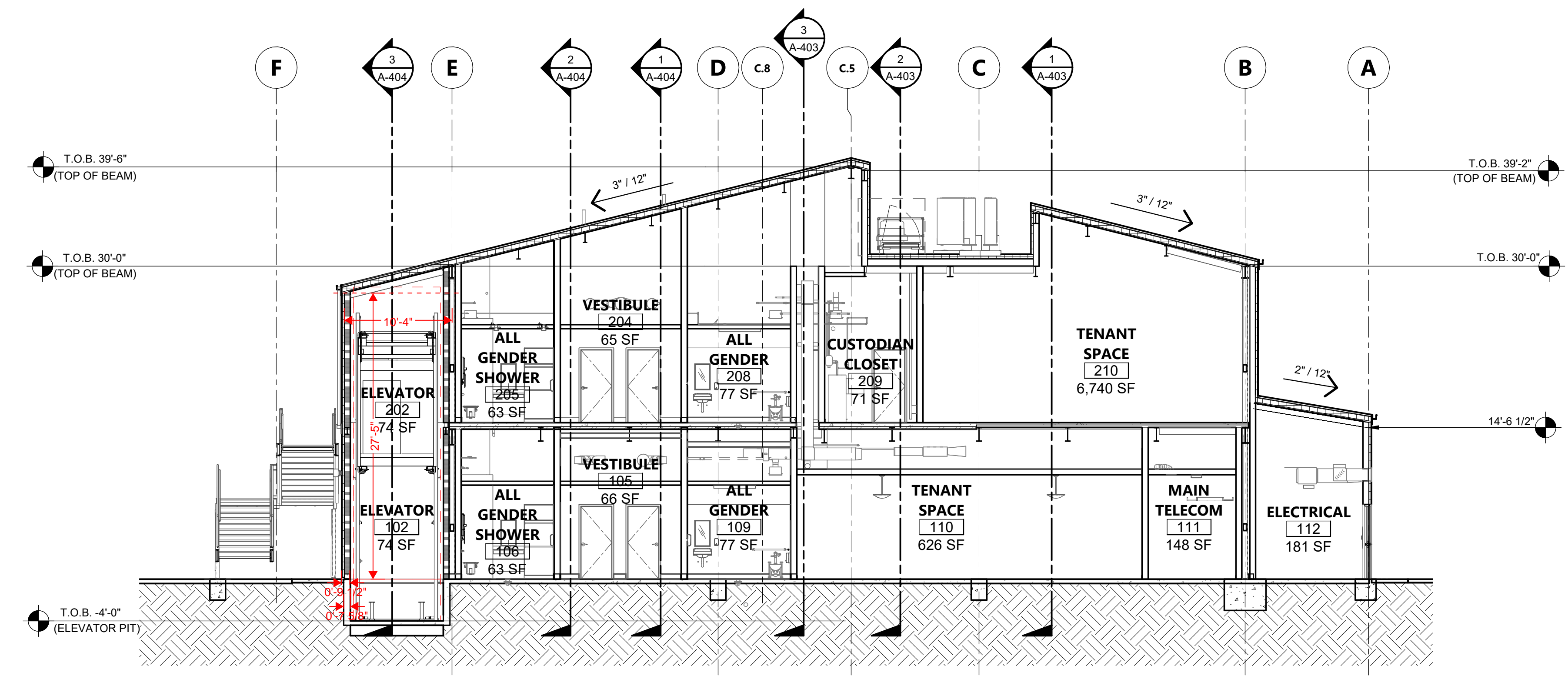
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CONSTRUCTION DOCUMENTS

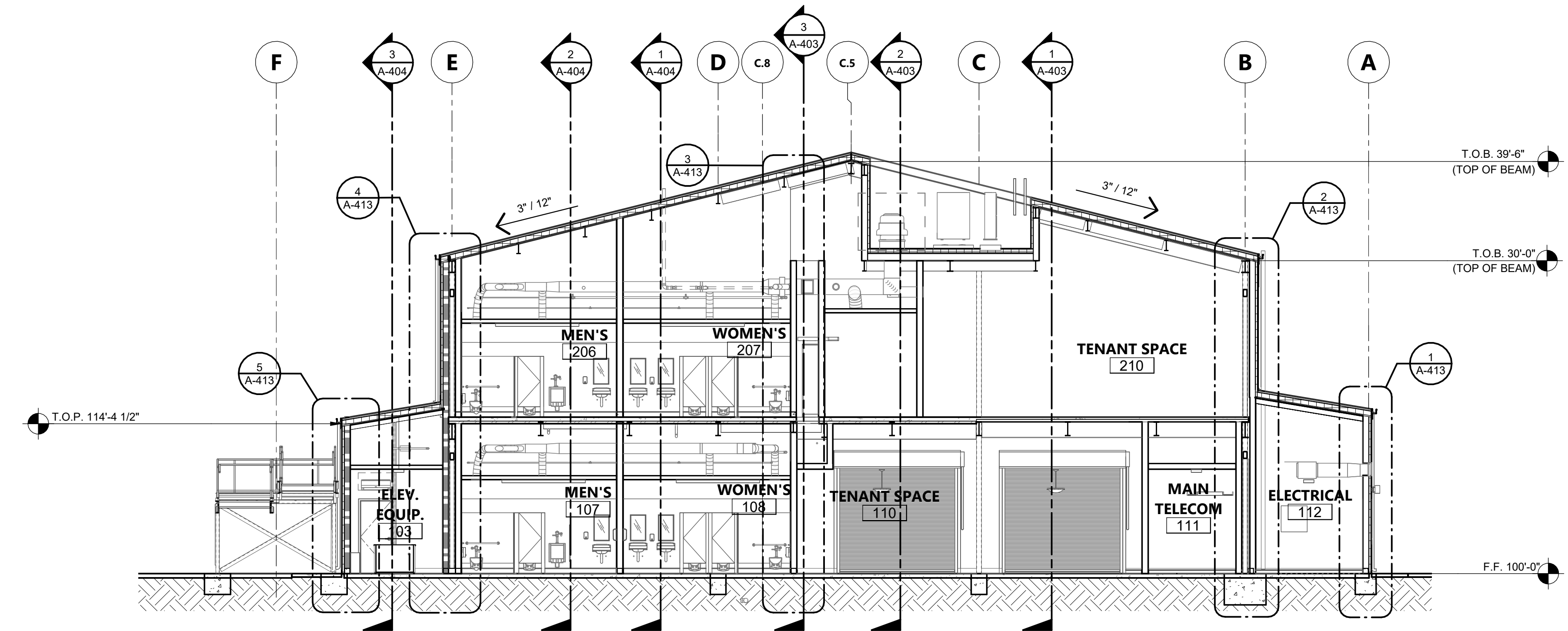
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BUILDING SECTION 1/8" = 1'-0" 1



BUILDING SECTION 1/8" = 1'-0" 2



BUILDING SECTION 1/8" = 1'-0" 3

KEYNOTES

AGENCY APPROVAL DSA# 03-122864

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ARCHITECT STAMP CONSULTANT STAMP

LICENSED ARCHITECT
MAY 1988
C-22474
Alfonso Biancane
REV 10-31-23
STATE OF CALIFORNIA

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SHEET TITLE
OVERALL TRANSVERSE BUILDING SECTIONS

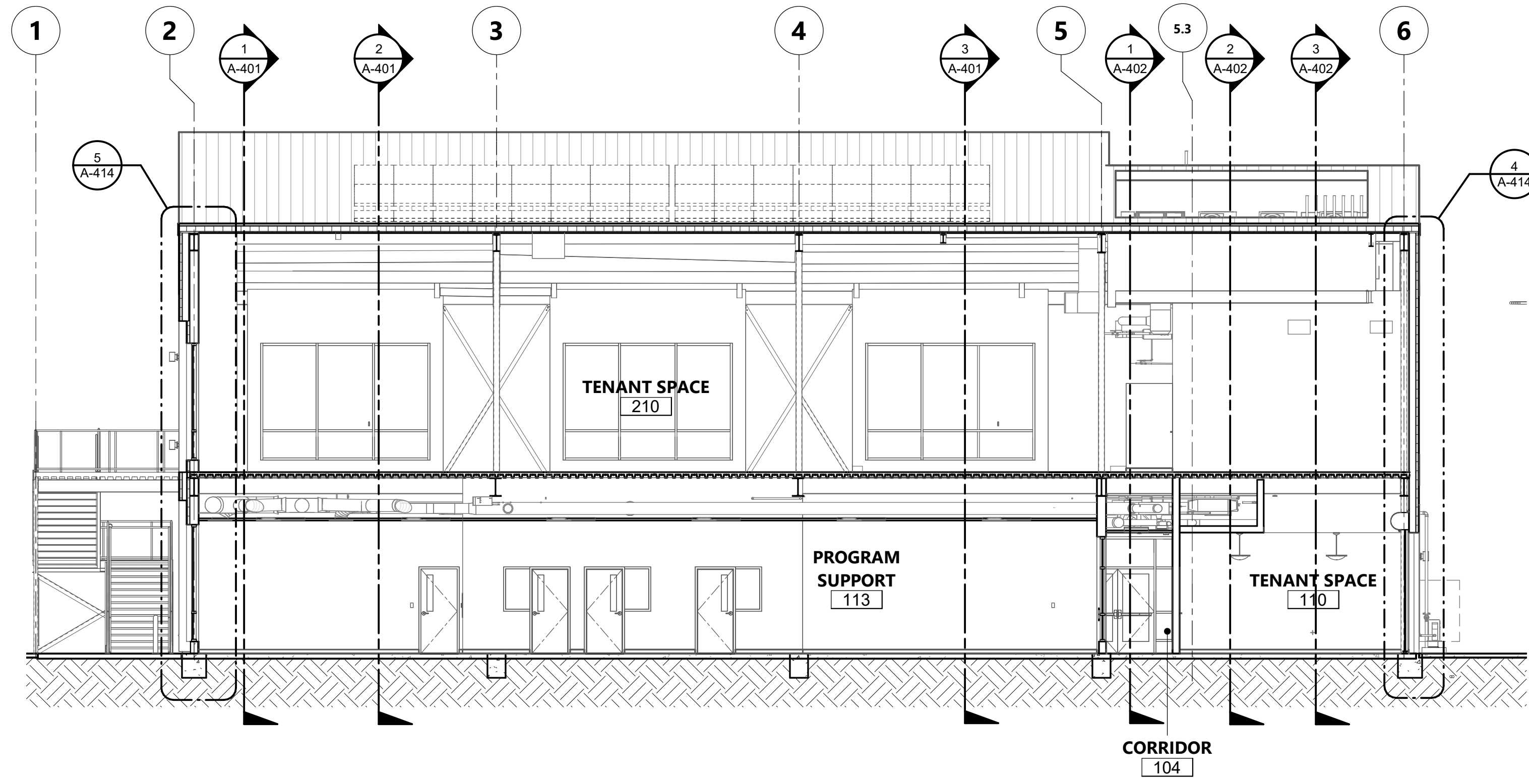
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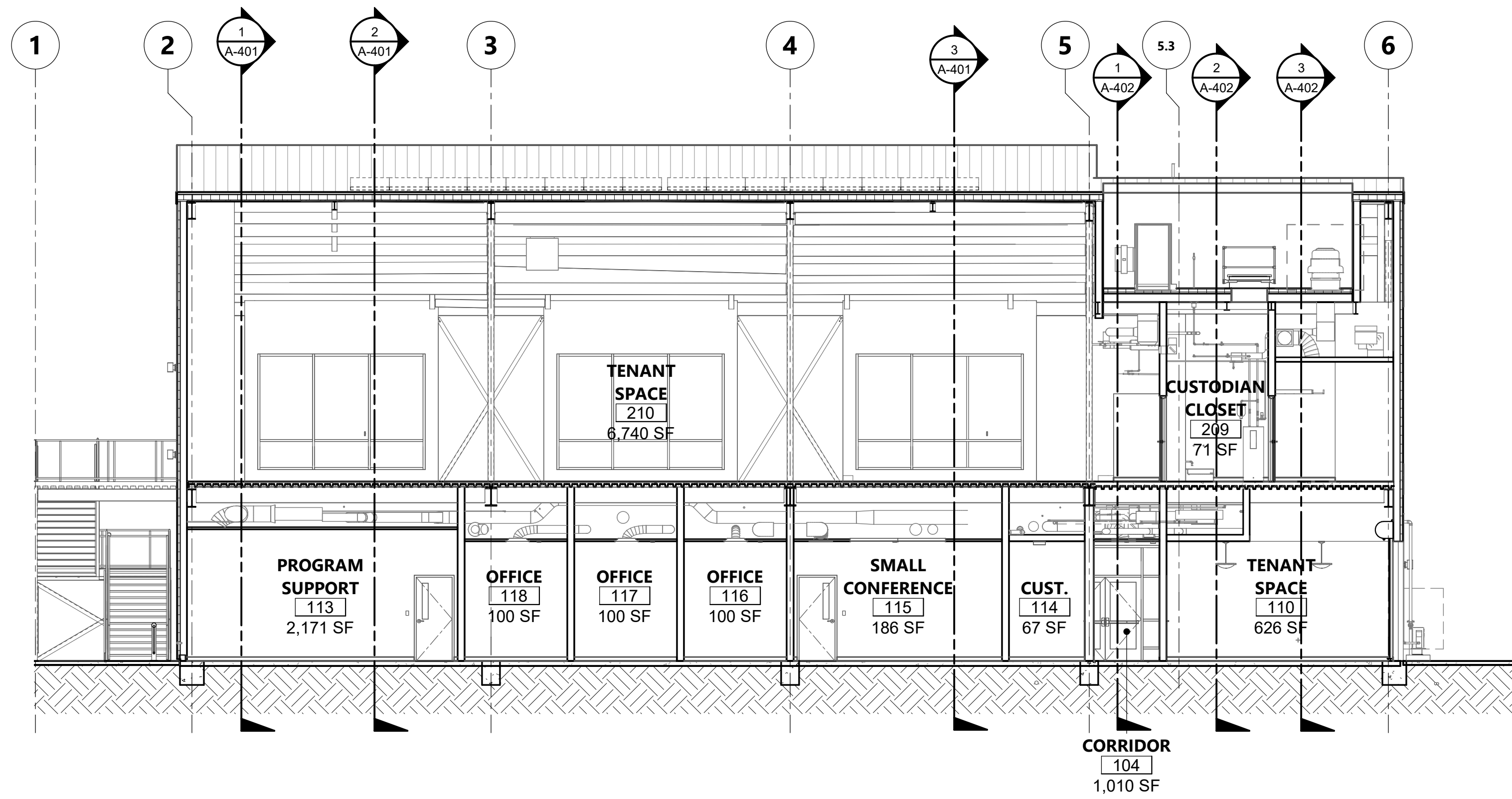
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CONSTRUCTION DOCUMENTS

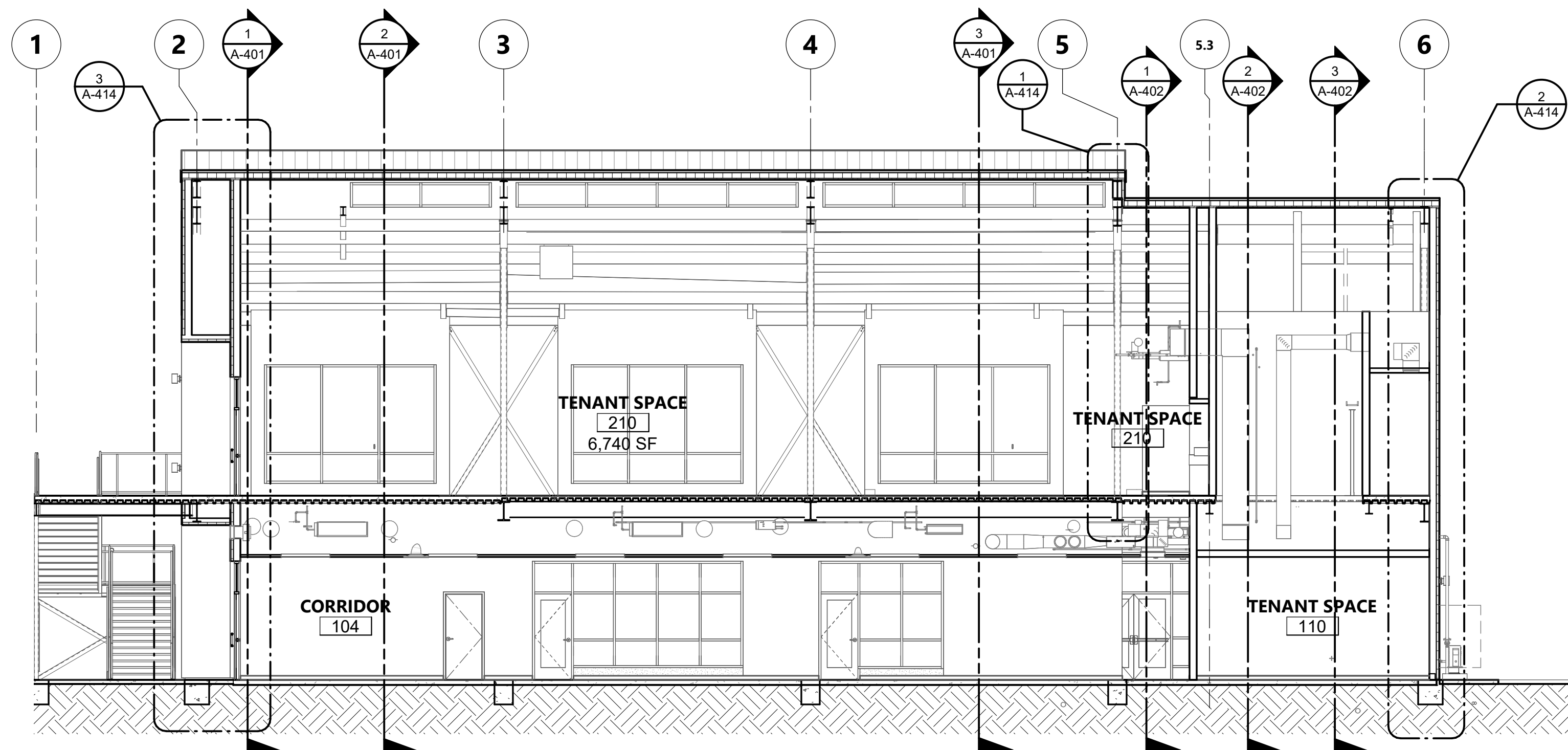
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BUILDING SECTION 1/8" = 1'-0" 1



BUILDING SECTION 1/8" = 1'-0" 2



BUILDING SECTION 1/8" = 1'-0" 3

KEYNOTES

AGENCY APPROVAL DSAE 03-122884

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LICENSED ARCHITECT
RAY GLEN WHELER
C-22474
APR 10 - 31-25
STATE OF CALIFORNIA

NO.	DATE	DESCRIPTION

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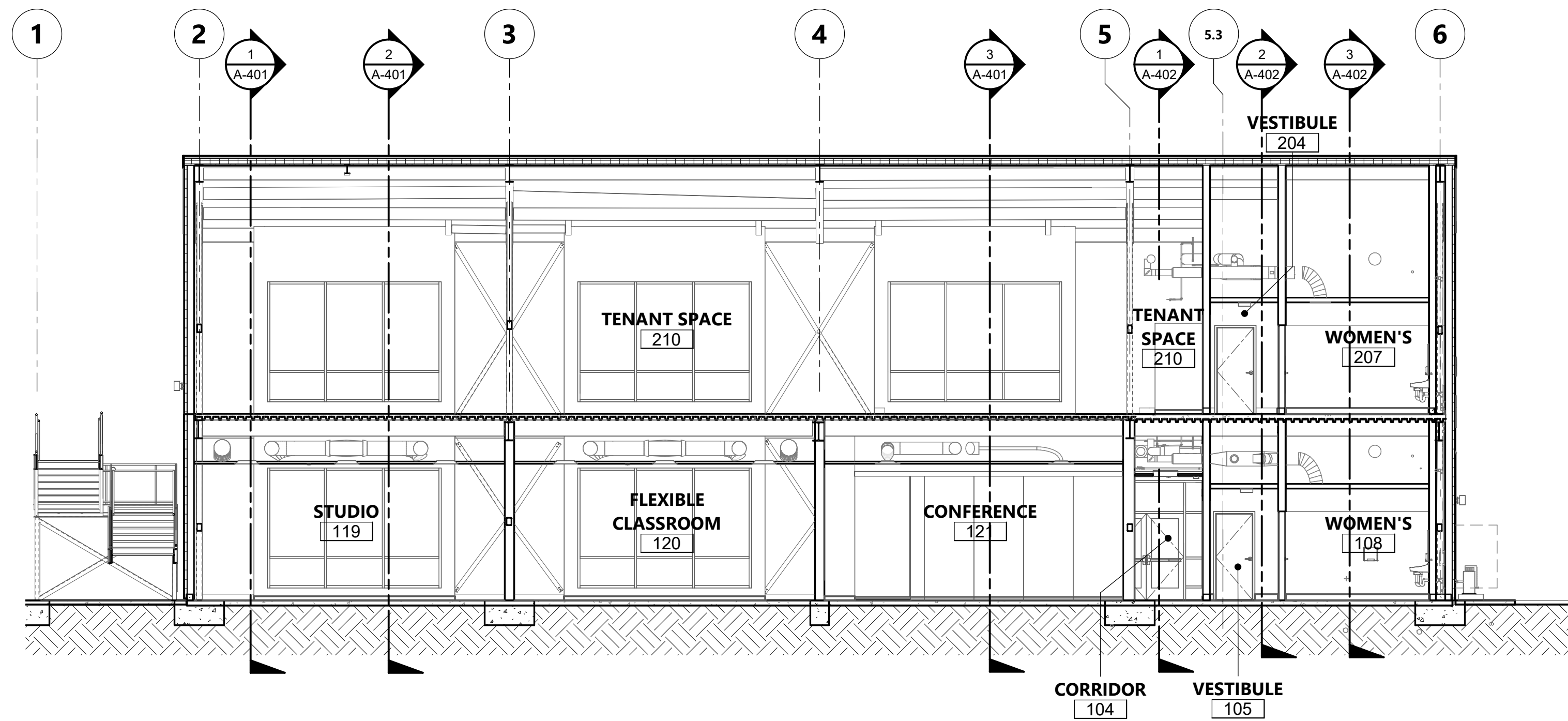
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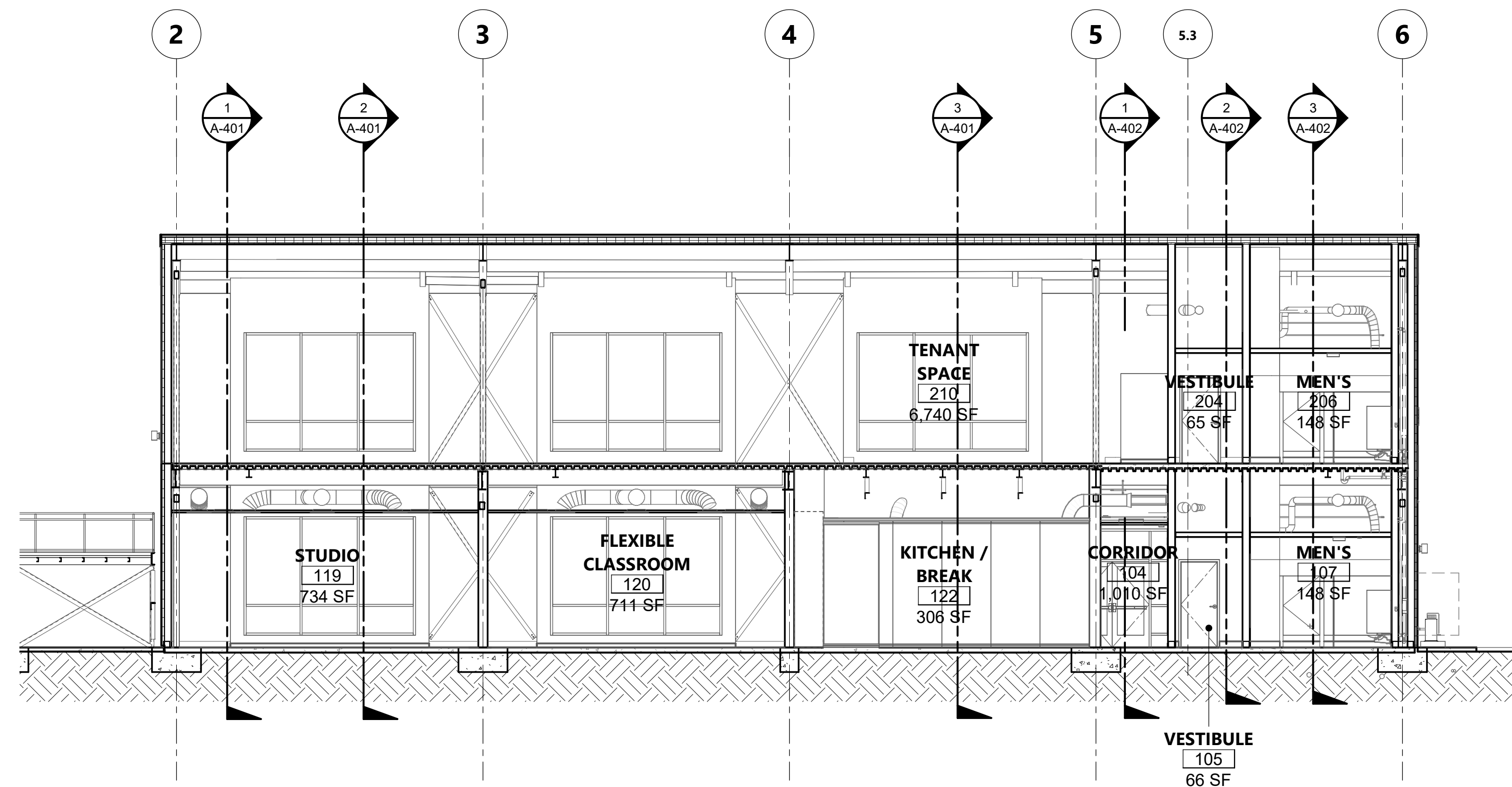
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A-403
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

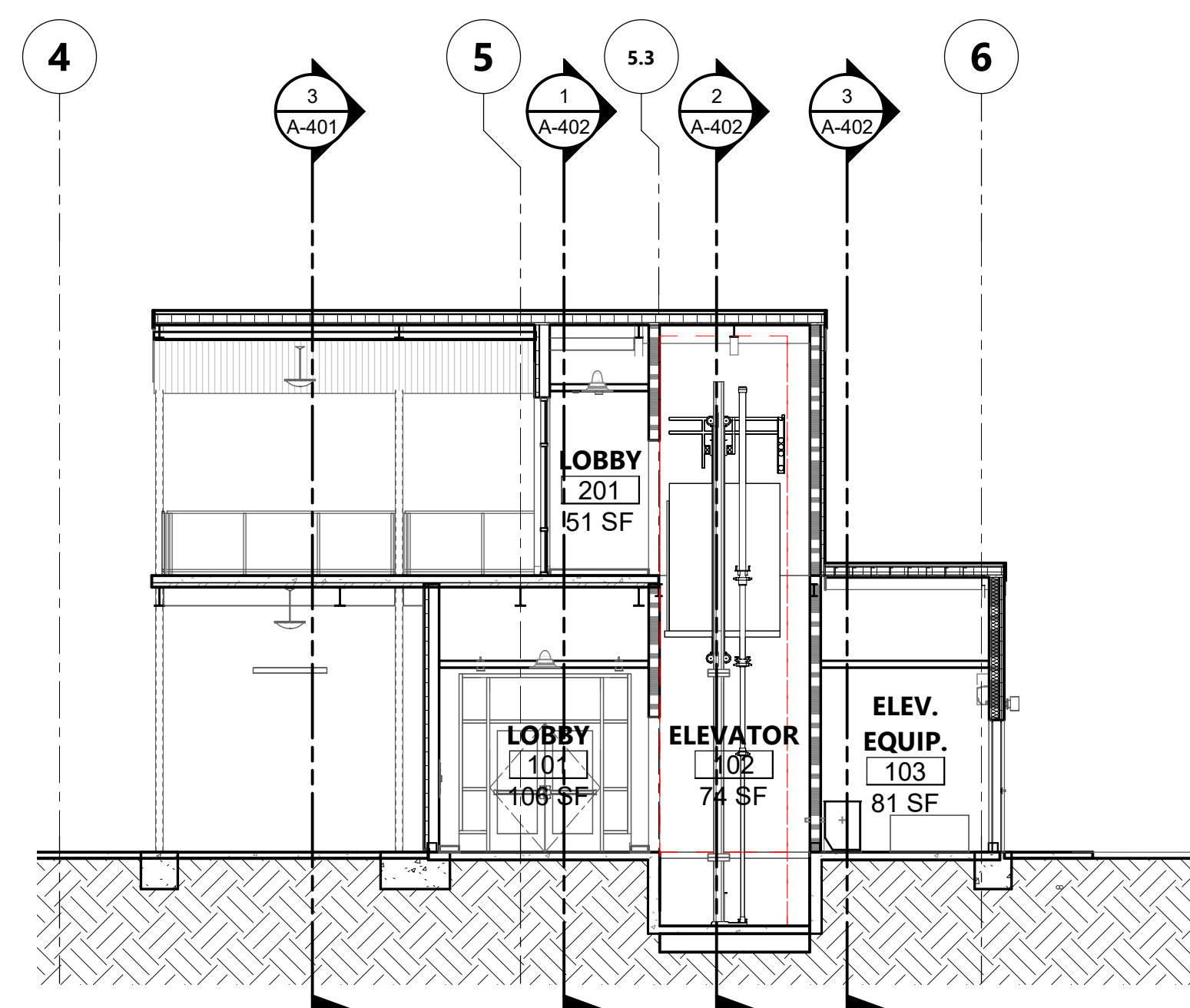
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BUILDING SECTION 1/8" = 1'-0" 1



BUILDING SECTION 1/8" = 1'-0" 2



BUILDING SECTION 1/8" = 1'-0" 3

KEYNOTES

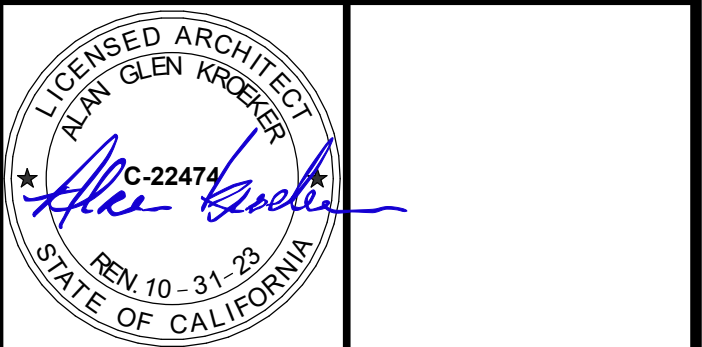
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SHEET TITLE
OVERALL
LONGITUDINAL
BUILDING SECTIONS

DRAWN BY: MB JOB NUMBER: 21179_01

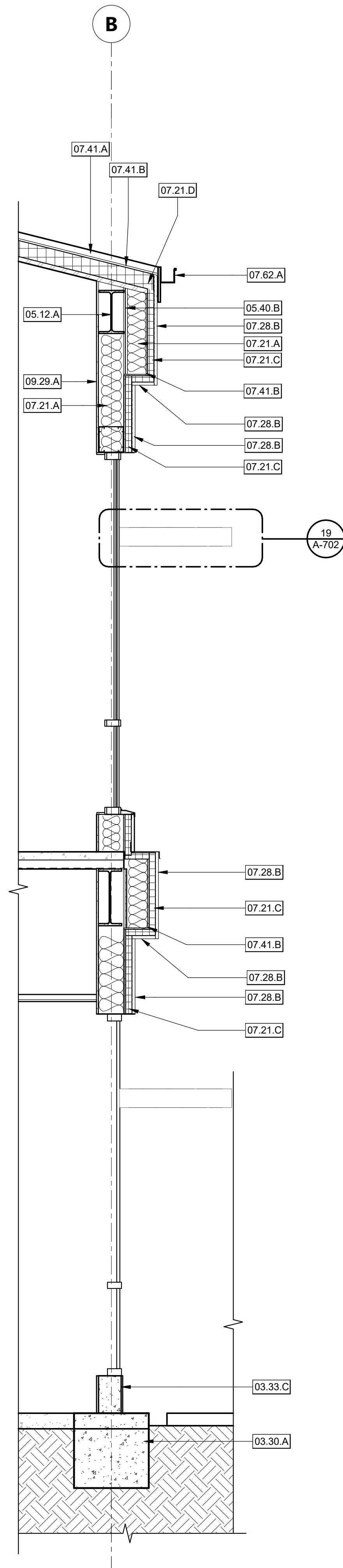
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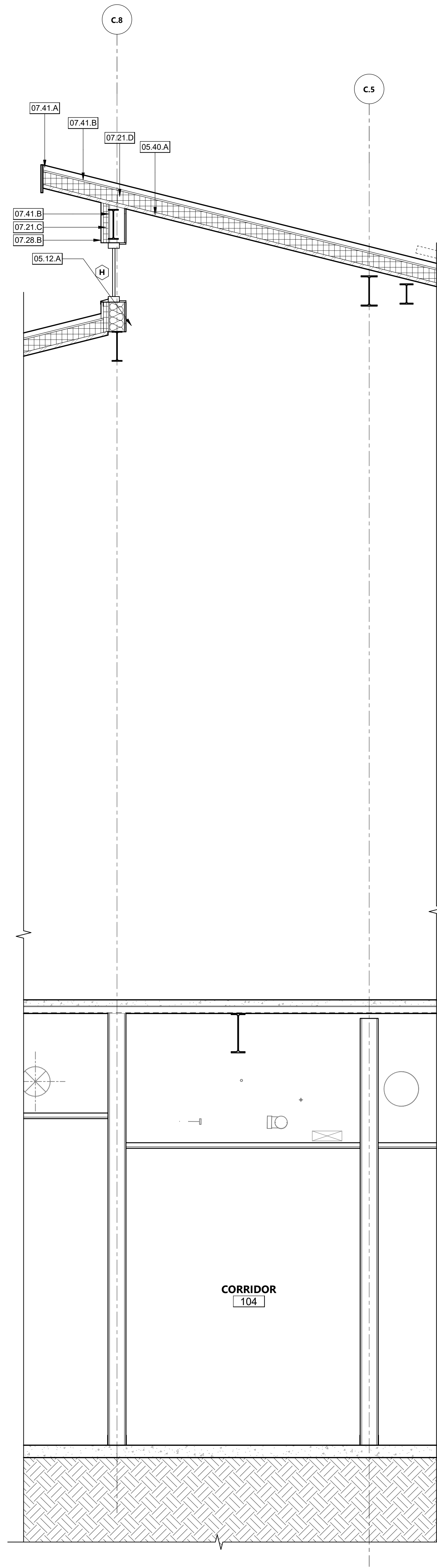
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

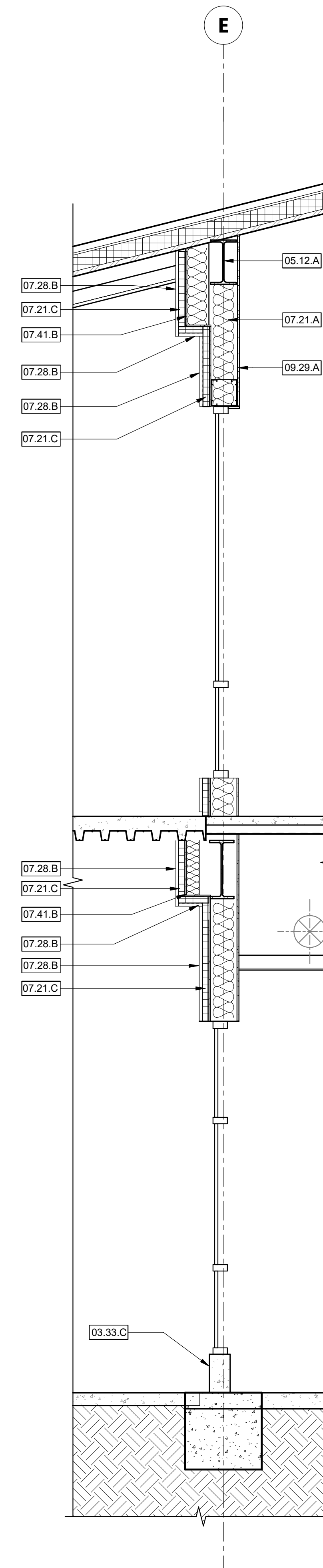
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WALL SECTION 1 1/2" = 1'-0" 1



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



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

KEYNOTES

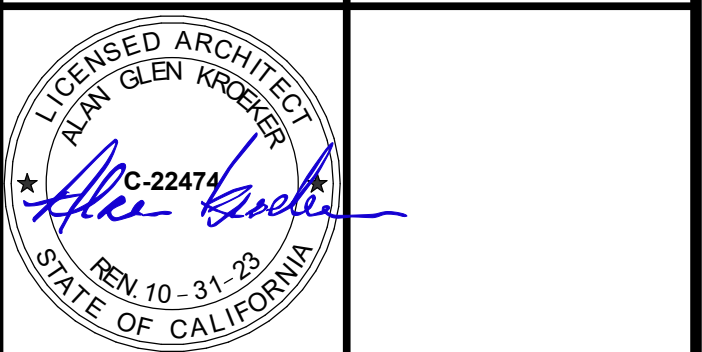
- 03.30.A FOOTING PER STRUCTURAL DRAWINGS
- 03.33.C CONCRETE CURB - EXPOSED EXTERIOR SIDE TO BE SMOOTH PER SPECIFICATIONS
- 05.12.A STRUCTURAL STEEL BEAM PER STRUCTURAL DRAWINGS
- 05.40.A 1-1/2" x 18GA METAL DECK U.N.O. - PER STRUCTURAL
- 05.40.B METAL STUD WALL - PER FRAMING PLAN
- 07.21.A UNFACED, GLASS-FIBER, BATT/BLANKET INSULATION, R-19 AT WALLS, R-30 AT ROOF/CILING.
- 07.21.C 2" RIGID INSULATION
- 07.21.D 5" RIGID INSULATION
- 07.28.B METAL WALL PANELS - PER SPECIFICATIONS
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.41.B DENSEDECK BOARD - PER SPECIFICATIONS
- 07.62.A RAIN GUTTER
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED

AGENCY APPROVAL DSAE 03-122884



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SHEET TITLE

WALL SECTIONS

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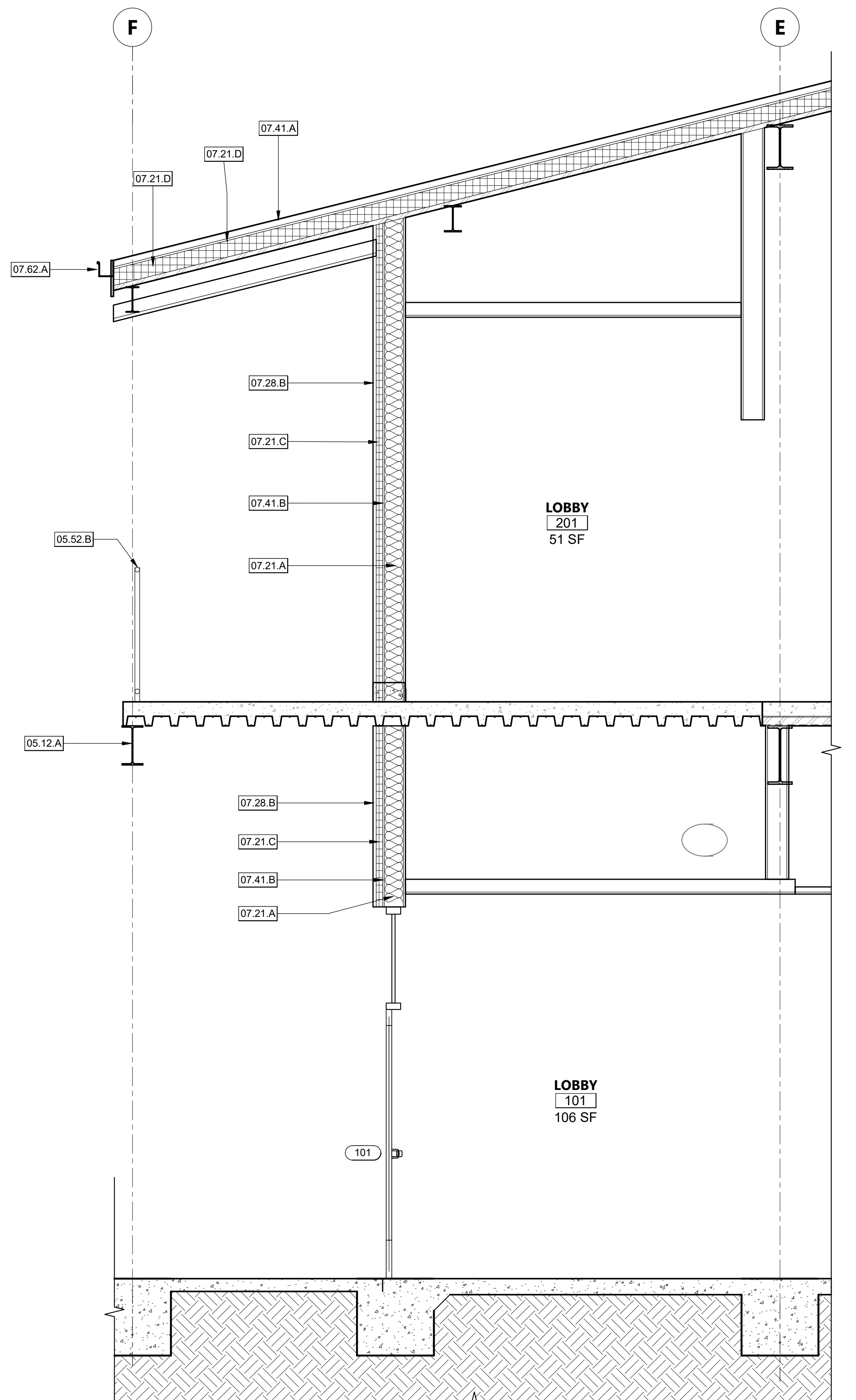
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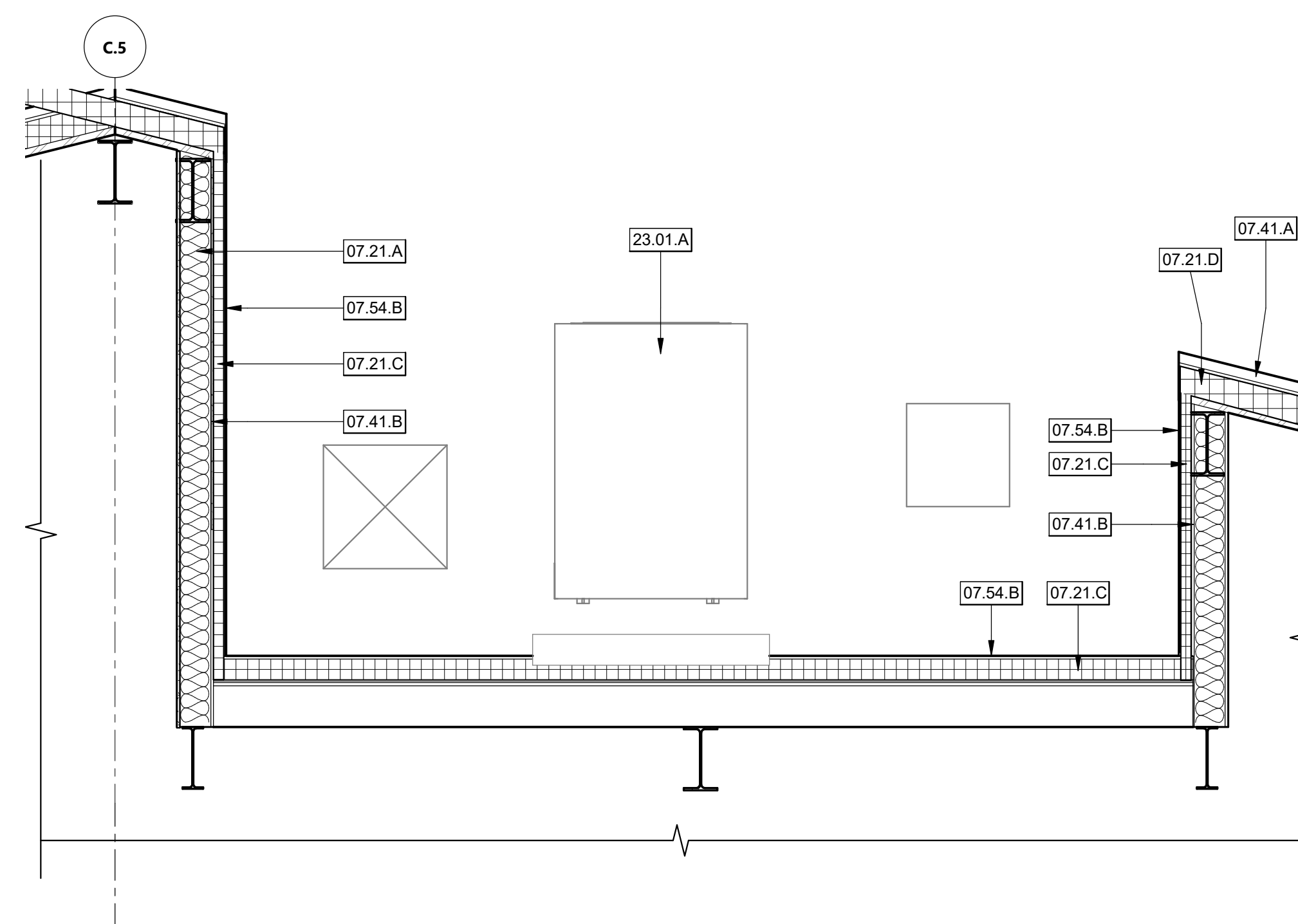
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

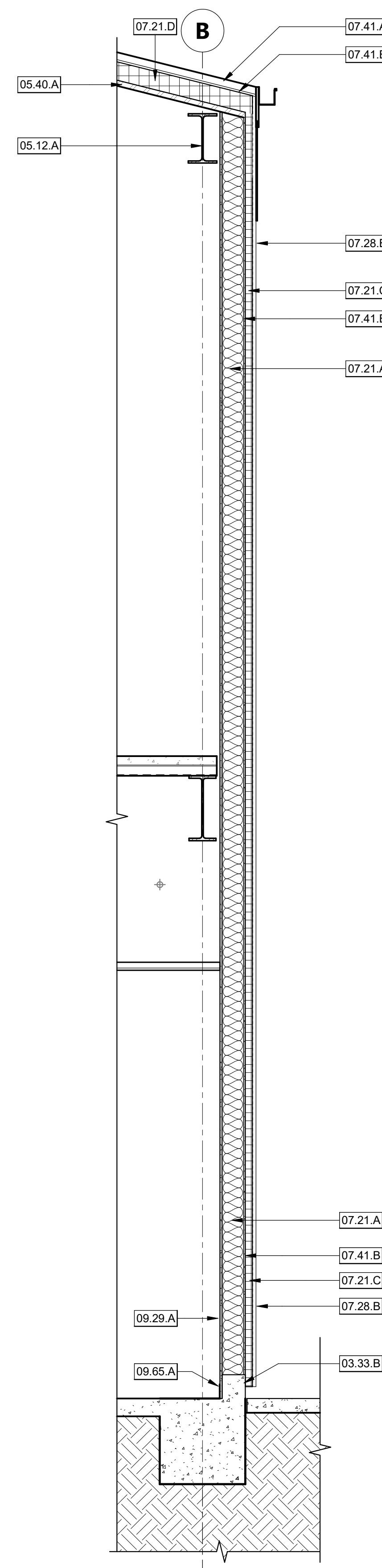
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WALL SECTION RE: 17-A-202 1/2" = 1'-0" 2



WALL SECTION RE: 17-A-202 1/2" = 1'-0" 1



WALL SECTION RE: 17-A-202 1/2" = 1'-0" 3

KEYNOTES

- 03.33.B CONCRETE CURB PER STRUCTURAL
- 05.12.A STRUCTURAL STEEL BEAM PER STRUCTURAL DRAWINGS
- 05.40.A 1-1/2" x 18GA METAL DECK U.N.O. - PER STRUCTURAL
- 05.52.B 1-1/2" DIA. SCH. 40 GUARDRAIL
- 07.21.A UNFACED, GLASS-FIBER, BATT/BLANKET INSULATION, R-19 AT WALLS, R-30 AT ROOF/CILING.
- 07.21.C 2" RIGID INSULATION
- 07.21.D 5" RIGID INSULATION
- 07.28.B METAL WALL PANELS - PER SPECIFICATIONS
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.41.B DENSDECK BOARD - PER SPECIFICATIONS
- 07.54.B SINGLE PLY ROOFING PER SPECIFICATIONS
- 07.62.A RAIN GUTTER
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED
- 09.65.A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
- 23.01.A MECHANICAL UNIT

AGENCY APPROVAL DSAE 03-122884

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SHEET TITLE
WALL SECTIONS

DRAWN BY: XX JOB NUMBER: 21179.01
SHEET NO.

A-412
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/20/2023 4:38:08 PM FILE LOCATION: C:\Users\mbiancane\Documents\21179_01_Calpoly_DesignBuild Tech Park_A22_Mblancante19s1x.rvt

KEYNOTES

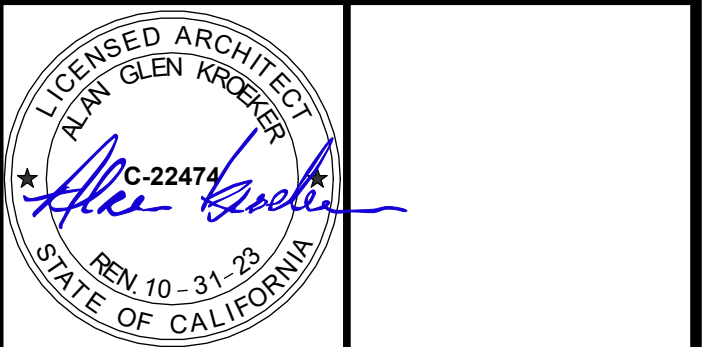
- 03.33.B CONCRETE CURB PER STRUCTURAL
- 05.40.A 1-1/2" x 18GA METAL DECK U.N.O. - PER STRUCTURAL
- 05.40.B METAL STUD WALL - PER FRAMING PLAN
- 05.51.C METAL STAIRCASE WITH CONCRETE FILLED STEEL PAN TREADS
- 07.21.A UNFACED, GLASS-FIBER, BATT/BLANKET INSULATION, R-19 AT WALLS, R-30 AT ROOF/CEILING
- 07.21.C 2" RIGID INSULATION
- 07.21.D 5" RIGID INSULATION
- 07.28.B METAL WALL PANELS - PER SPECIFICATIONS
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.41.B DENSDECK BOARD - PER SPECIFICATIONS
- 07.62.A RAIN GUTTER
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED
- 09.29.B 5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED
- 09.77.A FIBER REINFORCED PLASTIC PANELS

AGENCY APPROVAL DSA# 03-122864



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SHEET TITLE

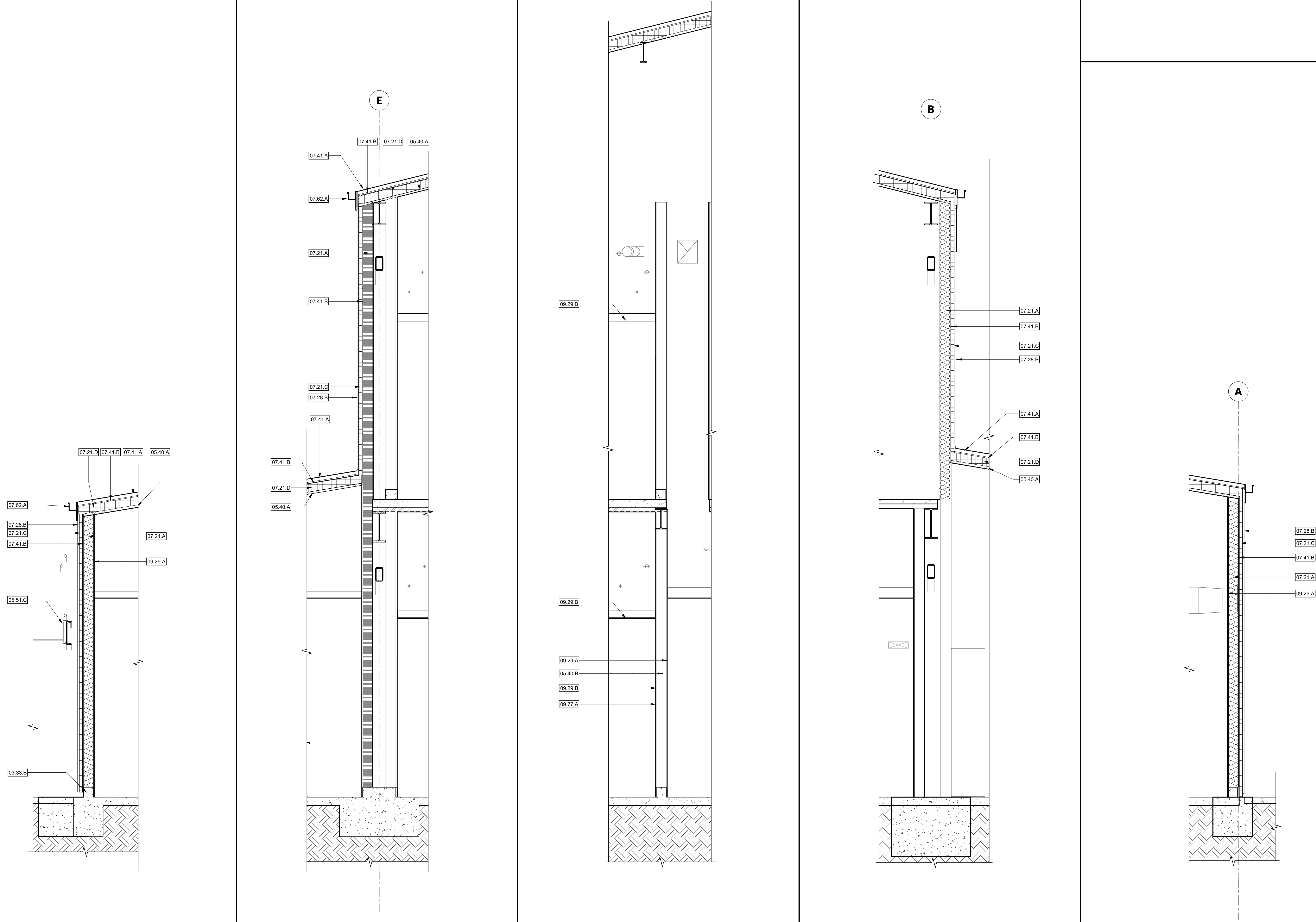
WALL SECTIONS

DRAWN BY: XX JOB NUMBER: 21179.01

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DATE: MARCH 31, 2023



WALL SECTION 1/2" = 1'-0" 5

WALL SECTION 1/2" = 1'-0" 4

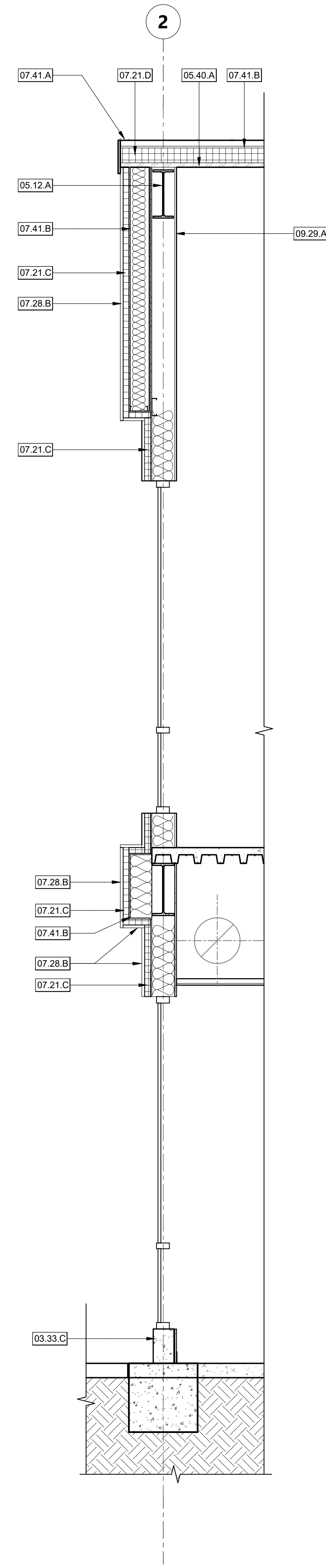
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WALL SECTION 1/2" = 1'-0" 2

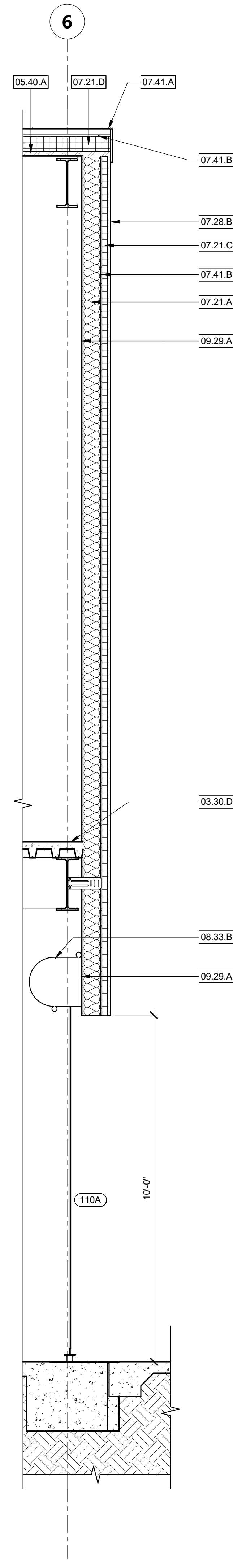
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CONSTRUCTION DOCUMENTS

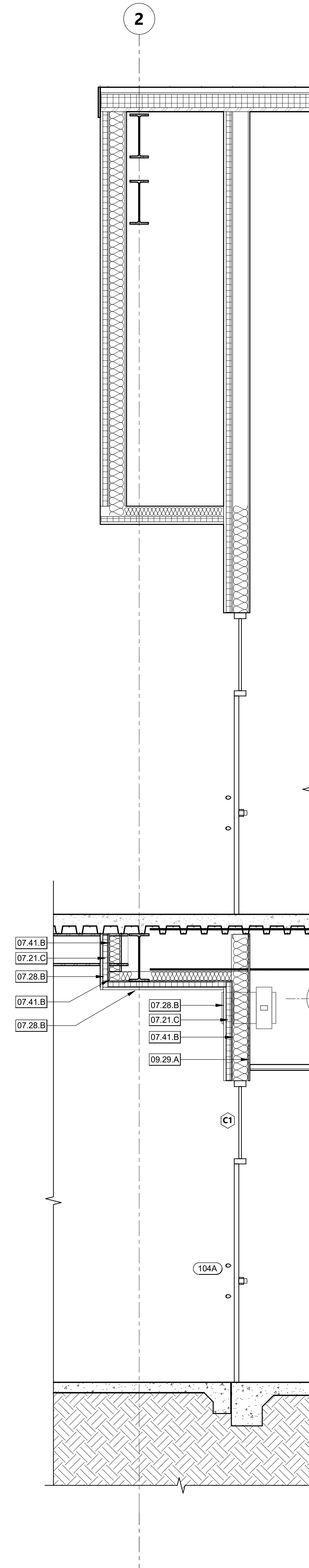
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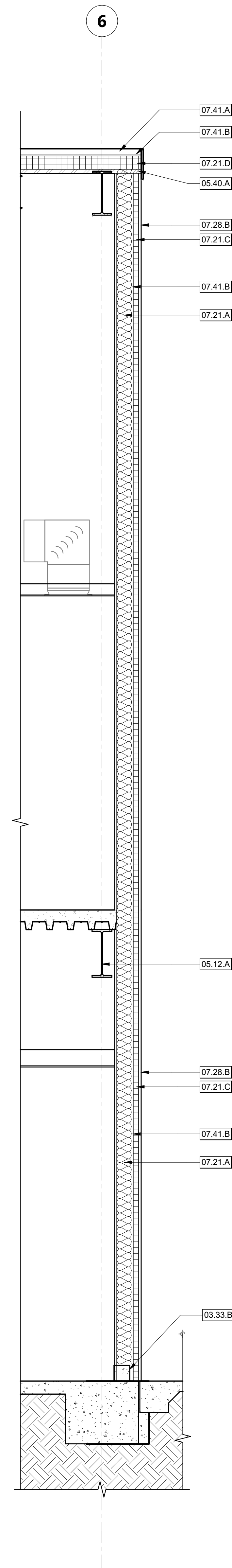
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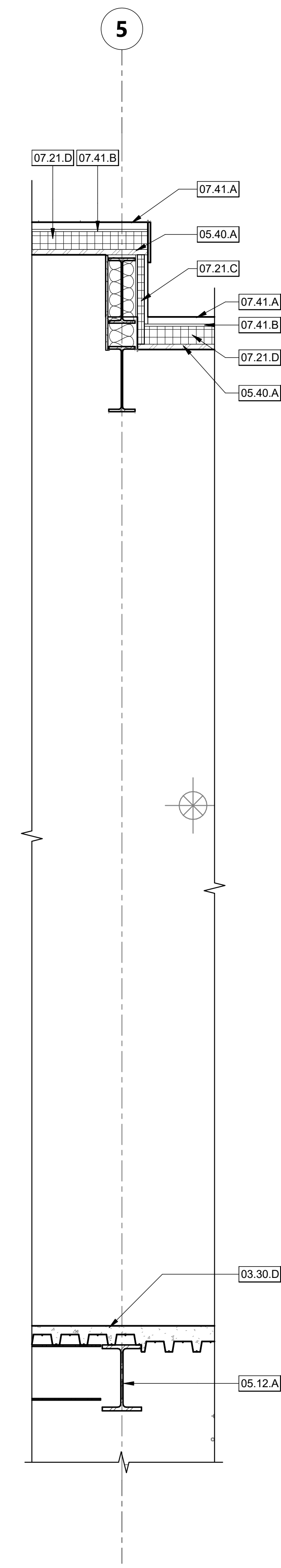
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WALL SECTION 3 1/2" = 1'-0" 3



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



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

KEYNOTES

- 03.30.D CONCRETE OVER DECKING PER STRUCTURAL PLANS
- 03.33.B CONCRETE CURB PER STRUCTURAL
- 03.33.C CONCRETE CURB - EXPOSED EXTERIOR SIDE TO BE SMOOTH PER SPECIFICATIONS
- 05.12.A STRUCTURAL STEEL BEAM PER STRUCTURAL DRAWINGS
- 05.40.A 1-1/2" x 18GA METAL DECK U.N.O. - PER STRUCTURAL
- 07.21.A UNFACED, GLASS-FIBER, BATT/BLANKET INSULATION, R-19 AT WALLS, R-30 AT ROOF/CEILING.
- 07.21.C 2" RIGID INSULATION
- 07.21.D 5" RIGID INSULATION
- 07.28.B METAL WALL PANELS - PER SPECIFICATIONS
- 07.41.A METAL ROOF PANELS - PER SPECIFICATIONS
- 07.41.B DENSDECK BOARD - PER SPECIFICATIONS
- 08.33.B TWO (2) ROLL UP DOORS, PER FLOOR PLAN
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED

AGENCY APPROVAL DSAE 03-122884



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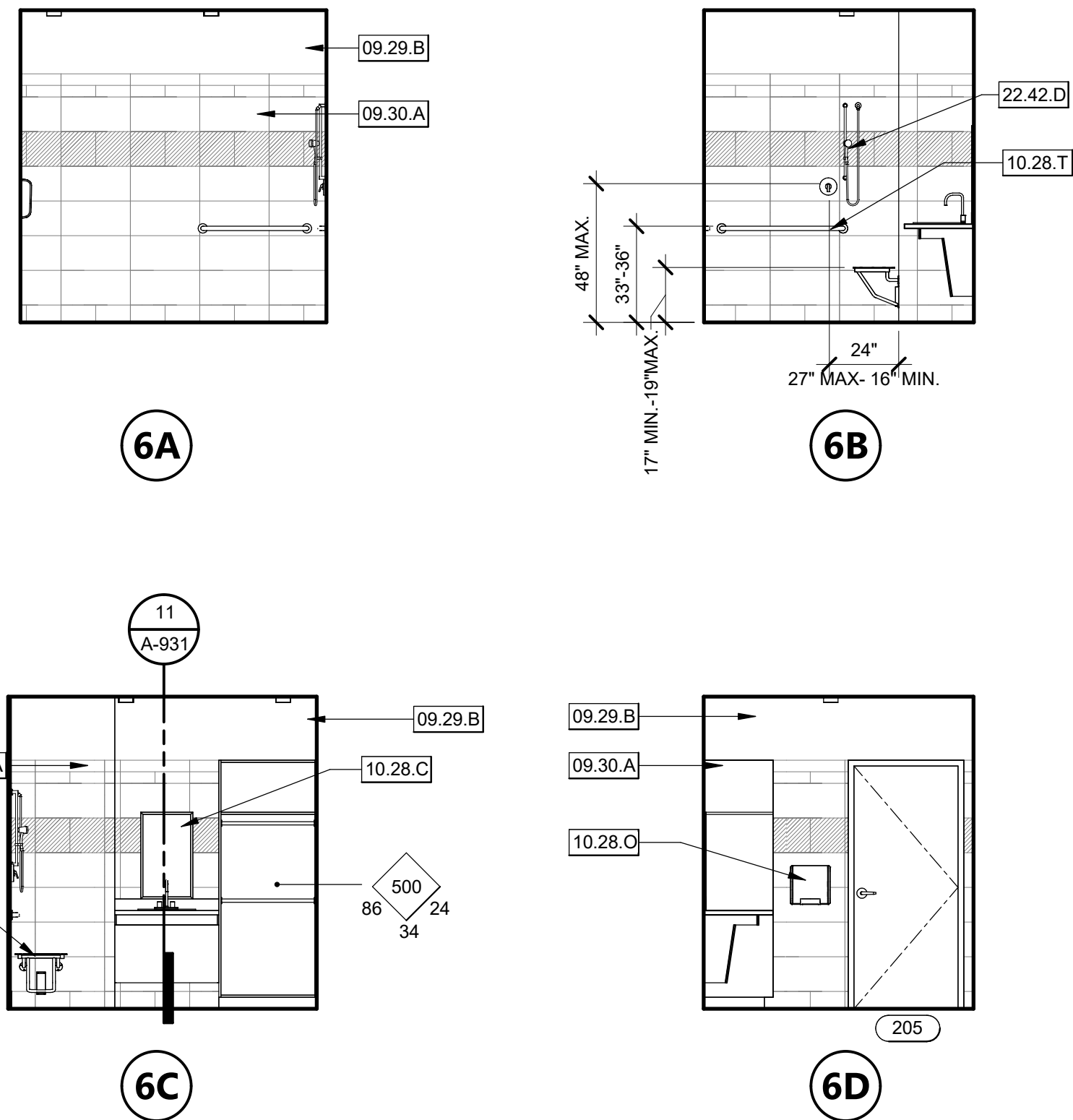
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SHEET NO.

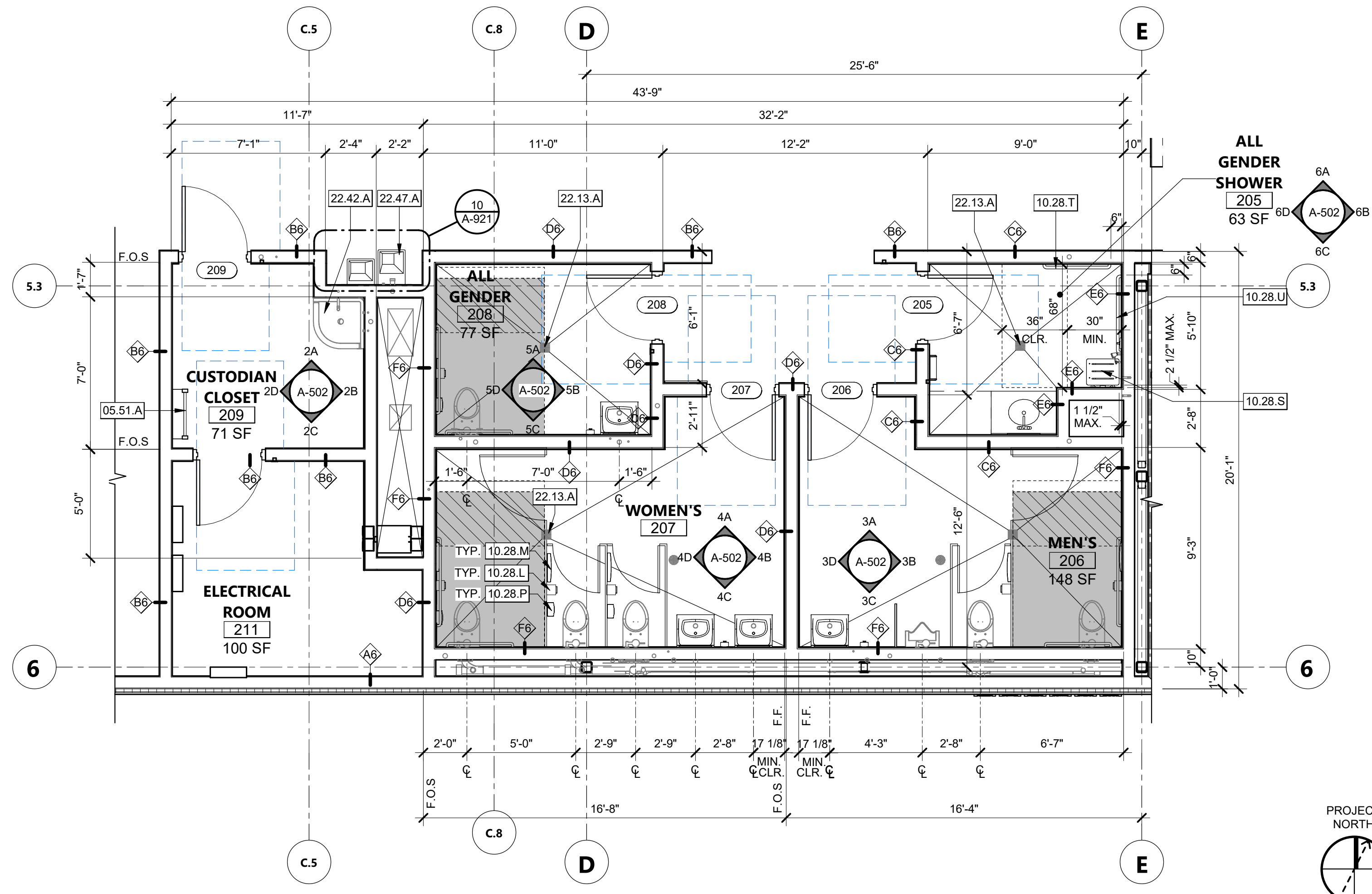
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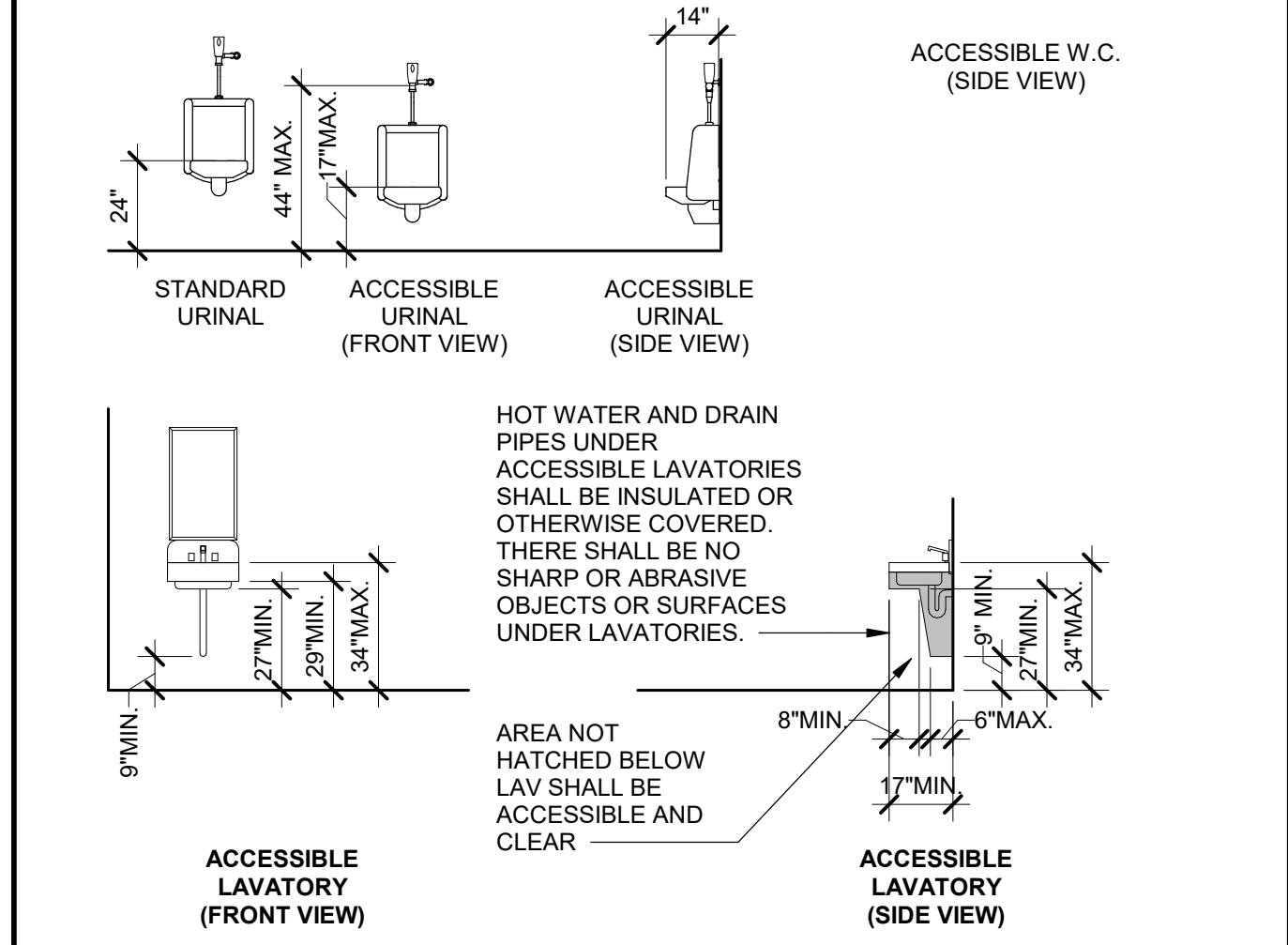
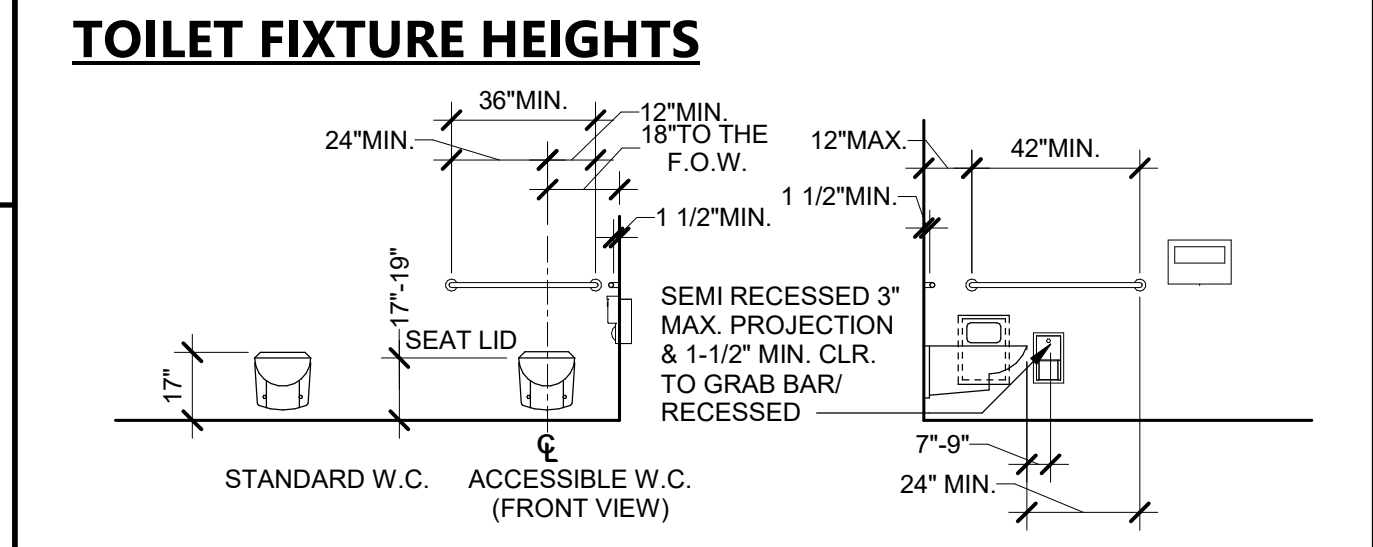
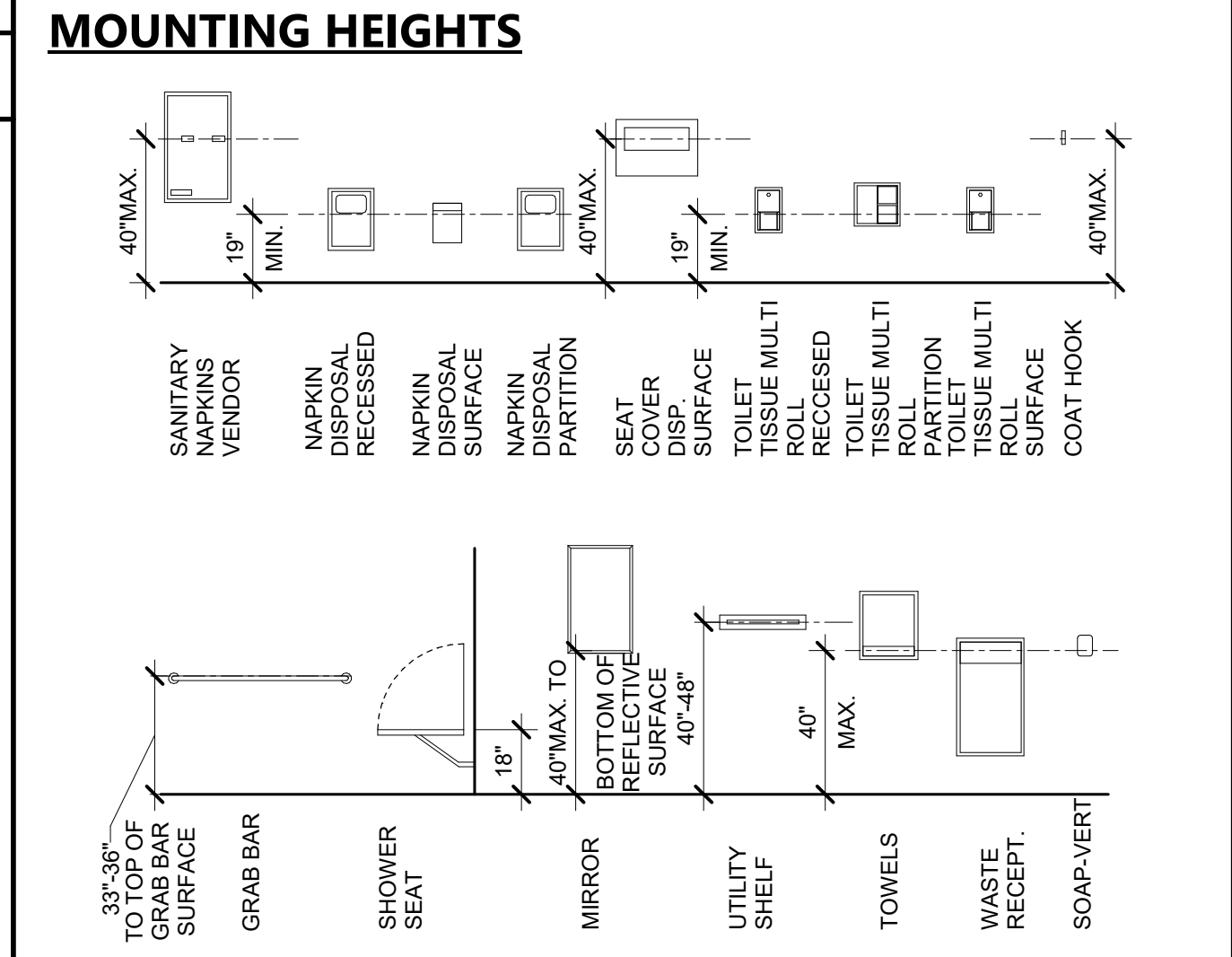
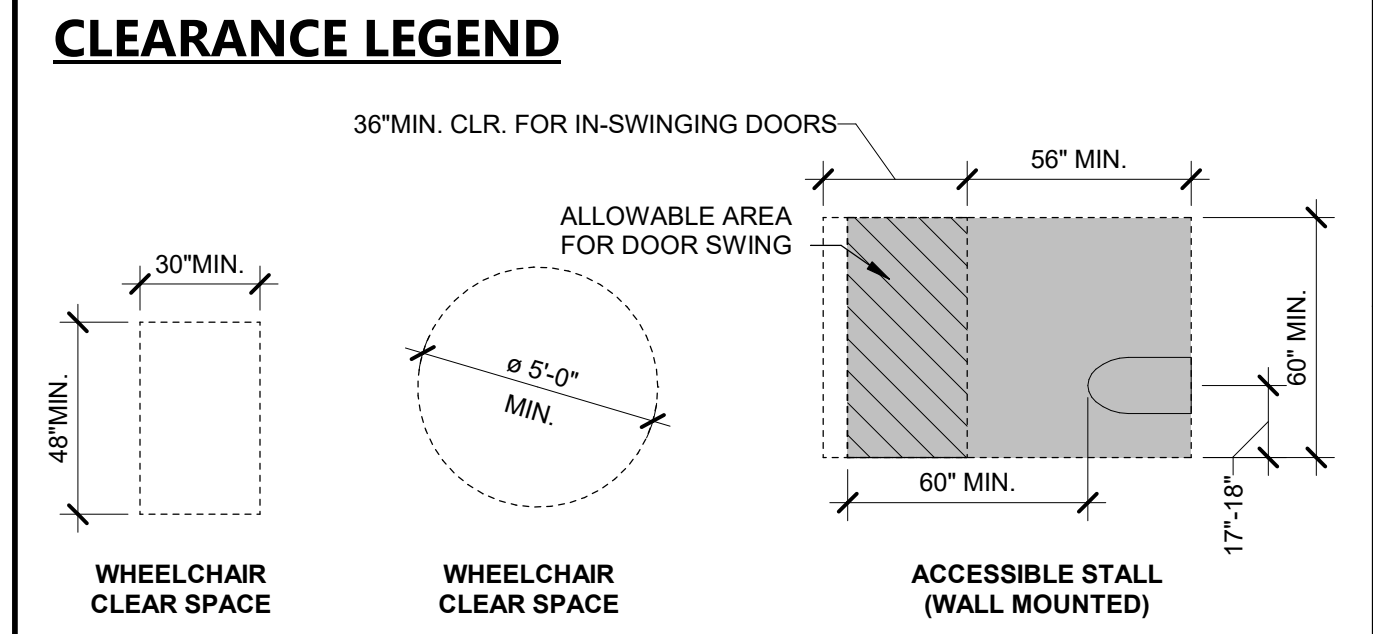


ALL GENDER SHOWER - 205 1/4" = 1'-0" 6



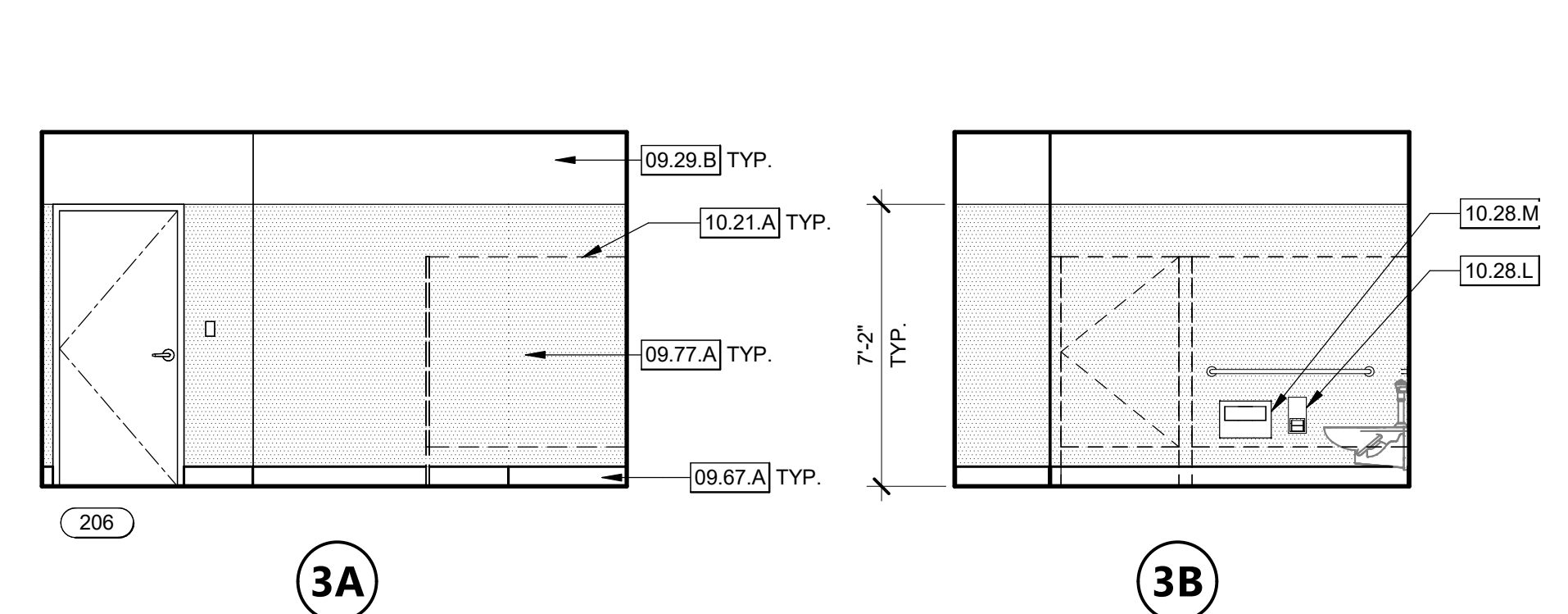
SECOND LEVEL FLOOR PLAN - ENLARGED 1/4" = 1'-0" 1

- ### RESTROOM PLAN GENERAL NOTES
1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
 2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
 3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
 4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
 5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED - PROVIDE BACKING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER DETAIL.
 7. ALL FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENING IN ALL DIRECTIONS SEE DETAILS.
 8. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.
 9. PROVIDE UNDER LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.
 10. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.

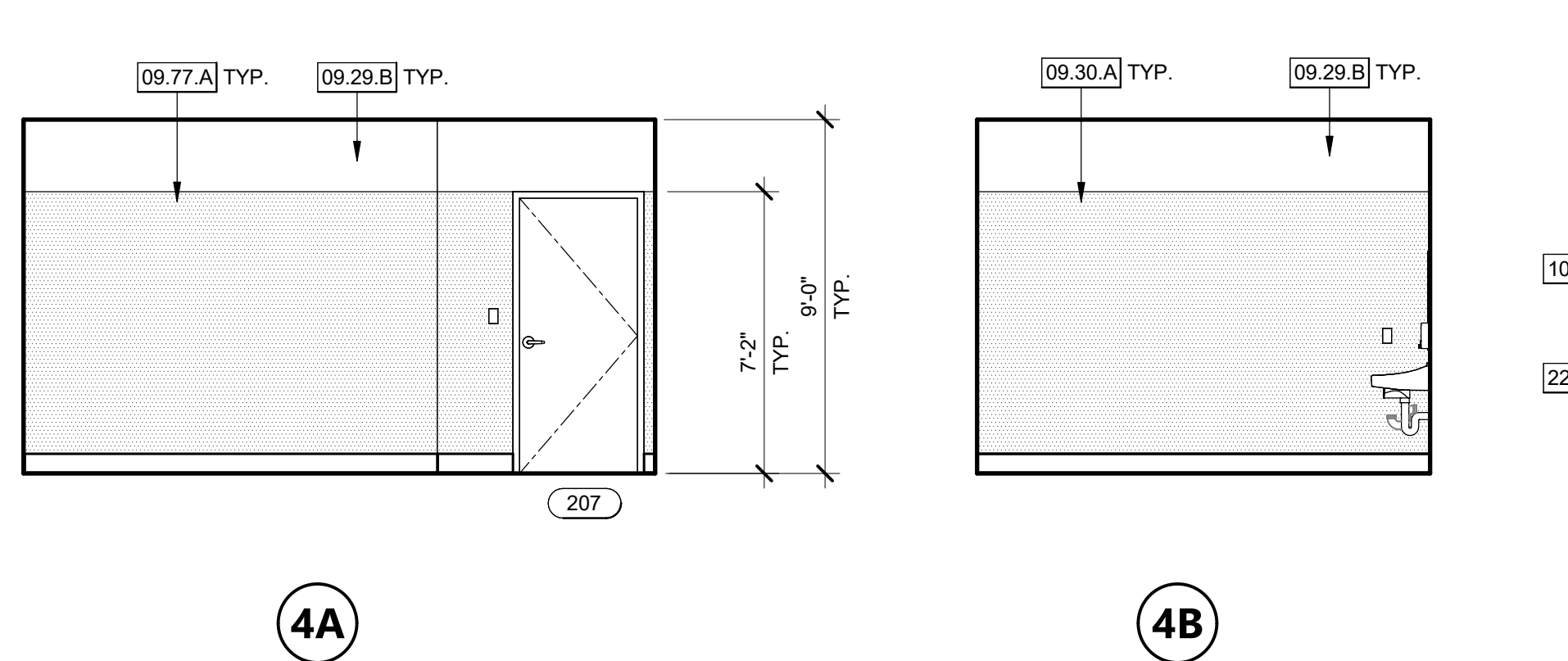


CLEARANCE TO FINISH SURFACE

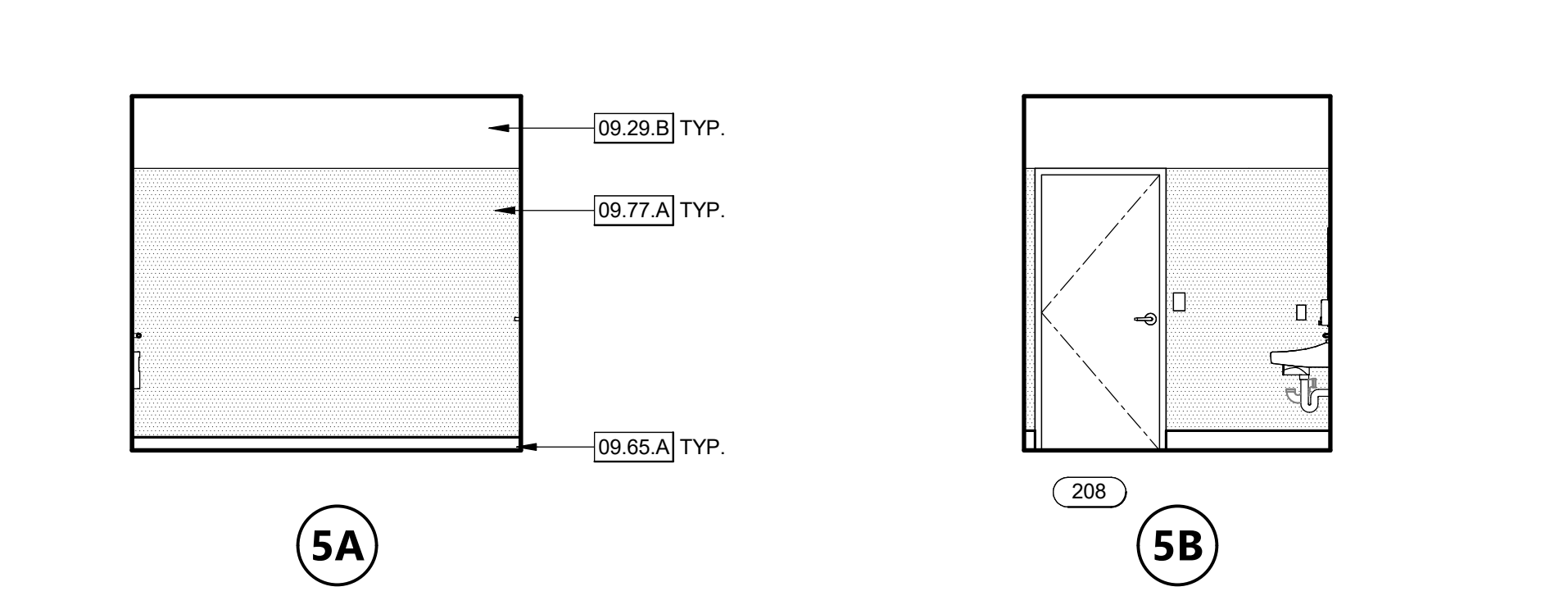
FIXTURE	ADULT	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	
TOILET CENTERLINE FROM WALL	17"-18"	
TOILET PAPER IN FRONT OF TOILET	7"-9"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	
TOP OF GRAB BAR HEIGHT	33"-36"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	



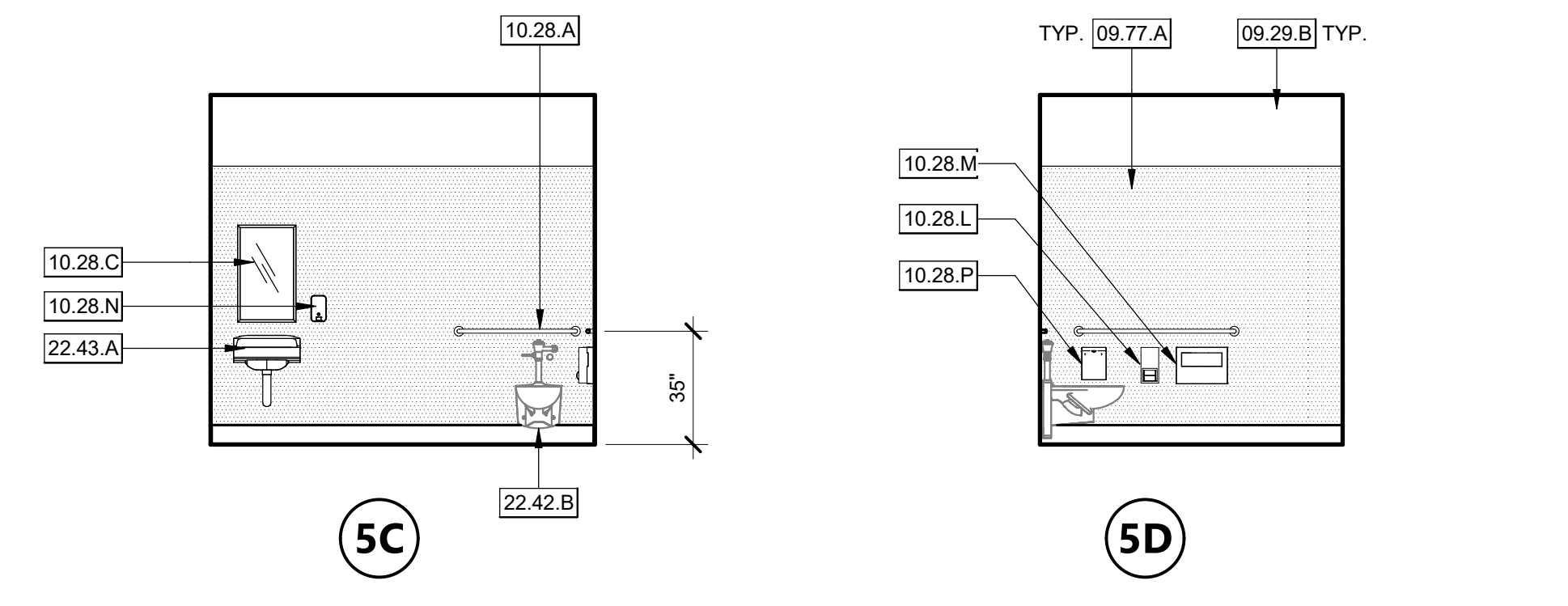
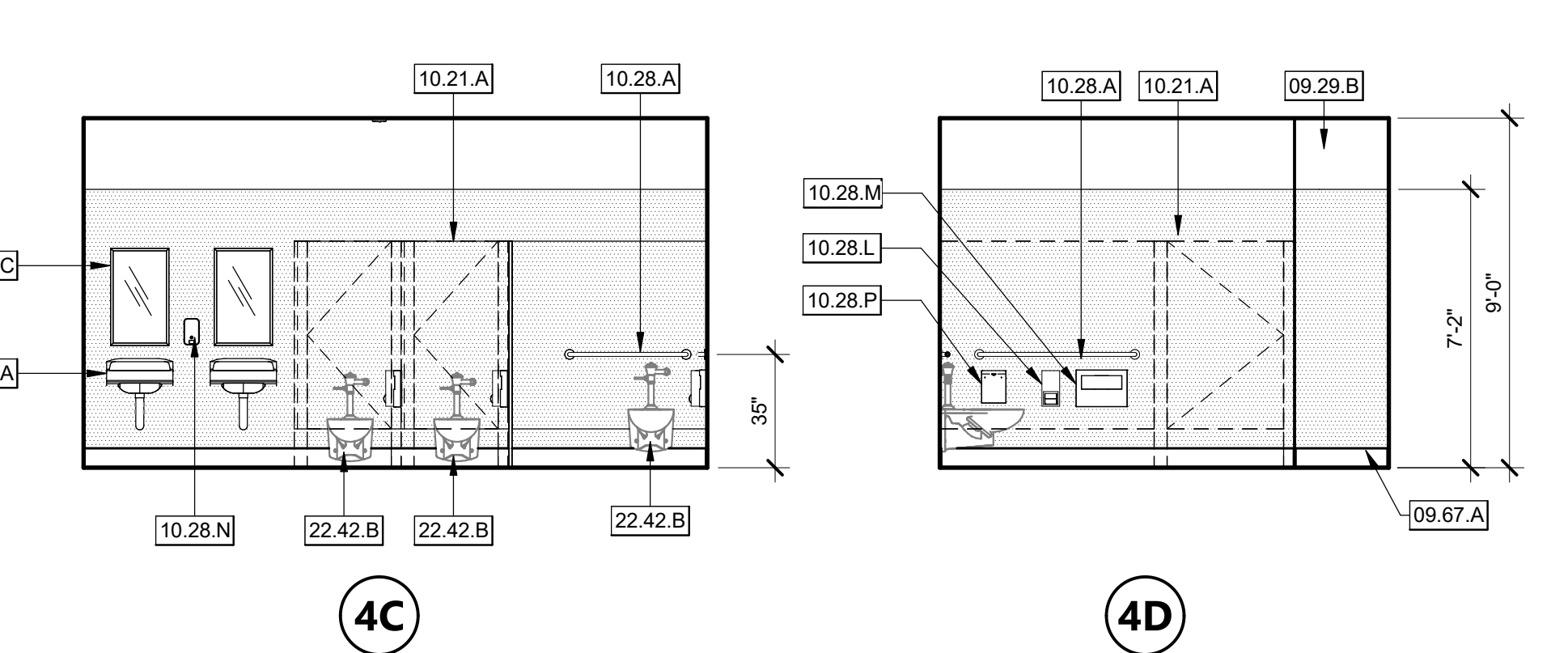
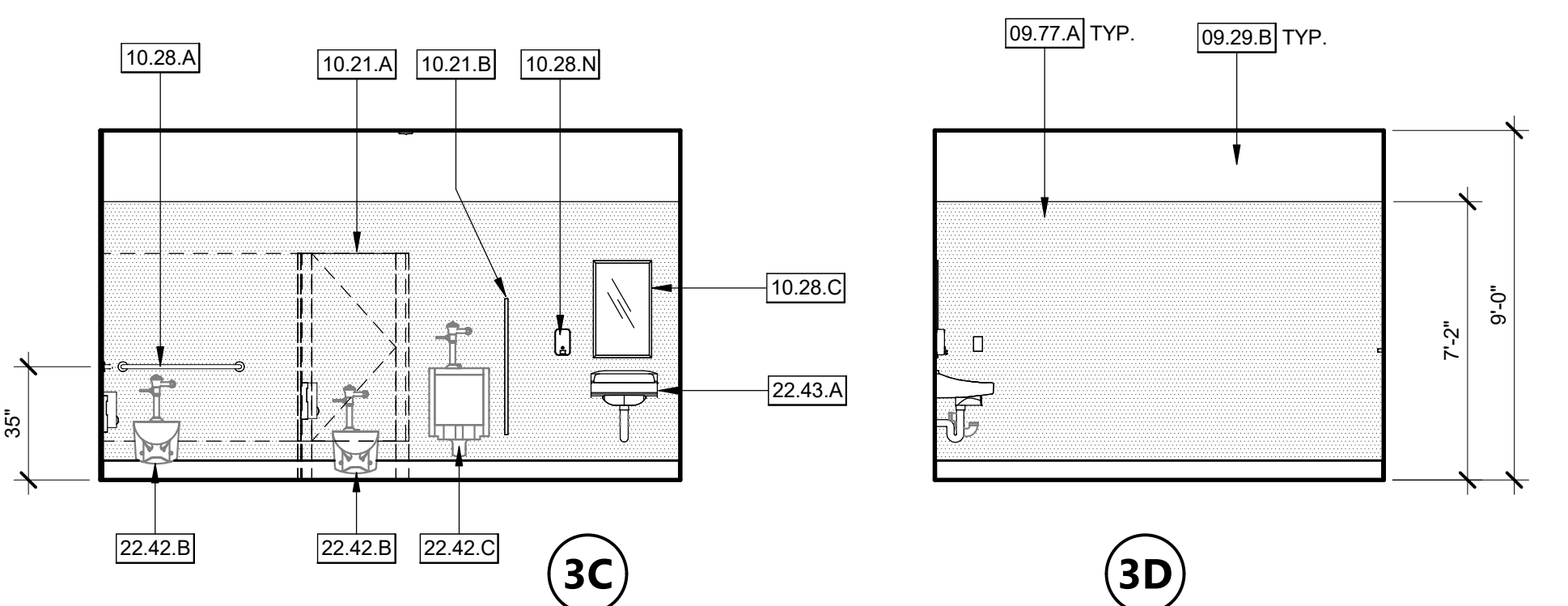
MEN'S - 206 1/4" = 1'-0" 3



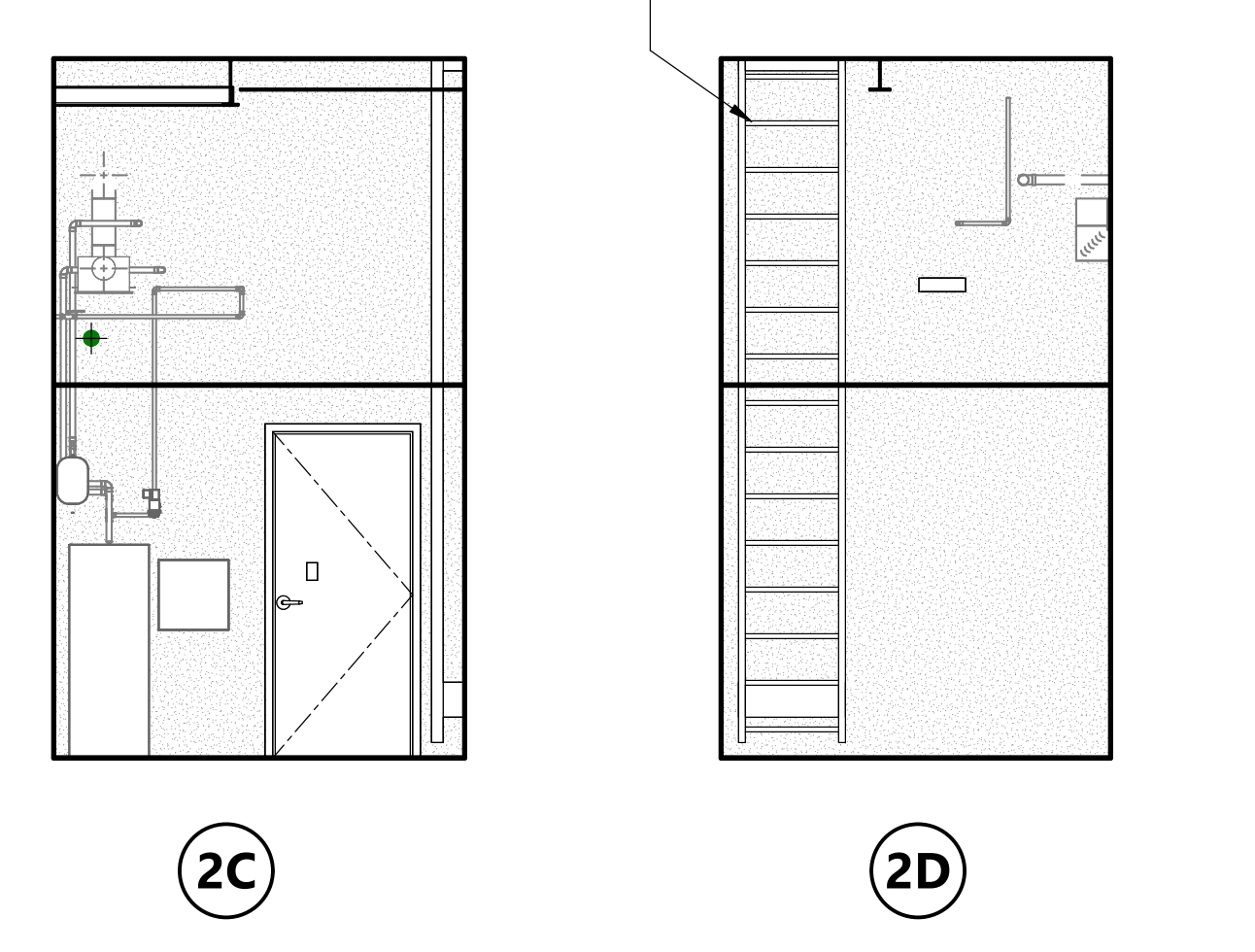
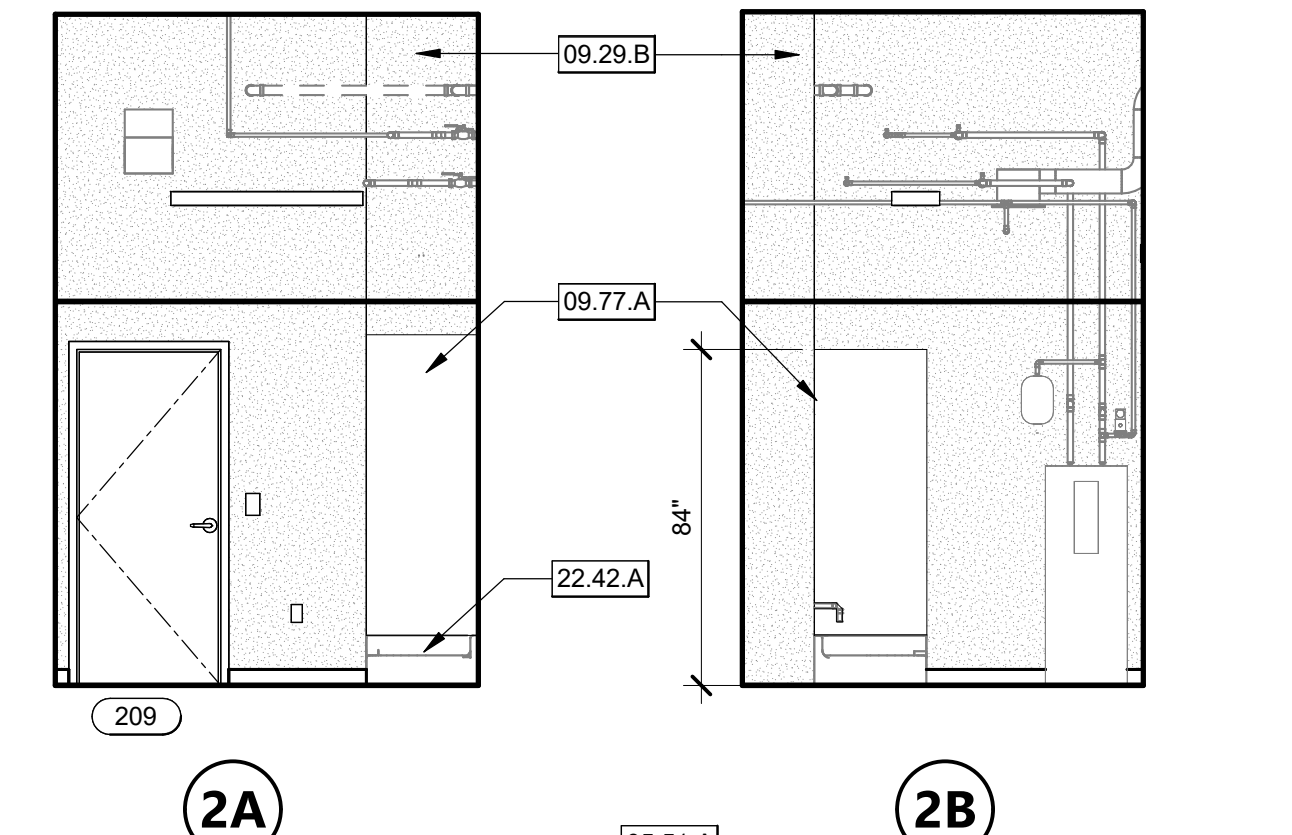
WOMEN'S - 207 1/4" = 1'-0" 4



ALL GENDER RESTROOM - 208 1/4" = 1'-0" 5



- ### KEYNOTES
- 05.51 A ALUMINUM ACCESS LADDER WITH COVER
 - 09.29 B 5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED
 - 09.30 A CERAMIC TILE. REFER TO FINISH SCHEDULE.
 - 09.65 A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
 - 09.67 A COVERED EPOXY FLOORING BASE
 - 09.77 A FIBER REINFORCED PLASTIC PANELS
 - 10.21 A TOILET COMPARTMENTS - PER SPEC. SECTION 10 21 13
 - 10.21 B URINAL PRIVACY SCREEN PANEL - PER SPEC. SECTION 10 21 13
 - 10.28 A GRAB BAR - PER SPEC. SECTION 10 28 00
 - 10.28 C MIRROR 18"x30" - BOBRICK B-165 - PER SPEC. SECTION 10 28 00
 - 10.28 L SURFACE MOUNT TOILET TISSUE DISPENSER - PER SPEC. SECTION 10 28 00
 - 10.28 M SURFACE MOUNT TOILET SEAT COVER DISPENSER - PER SPEC. SECTION 10 28 00
 - 10.28 N SURFACE MOUNT SOAP DISPENSER - PER SPEC. SECTION 10 28 00
 - 10.28 O SURFACE MOUNT HAND DRYER - BOBRICK 'TERRA DRY' - PER SPEC. SECTION 10 28 00
 - 10.28 P FOLD DOWN SHOWER SEAT - PER DETAIL 25 / A-921
 - 10.28 T 36" GRAB BAR
 - 10.28 U 42" GRAB BAR
 - 22.13 A FLOOR DRAIN
 - 22.42 A MOP SINK - PER PLUMBING DRAWINGS
 - 22.42 B WATER CLOSET - PER PLUMBING DRAWINGS
 - 22.42 C URINAL - PER PLUMBING DRAWINGS
 - 22.42 D ACCESSIBLE SHOWER FAUCET AND HOSE SET - PER PLUMBING DRAWINGS
 - 22.43 A ACCESSIBLE WALL MOUNTED SINK
 - 22.47 A HI-LOW DRINKING FOUNTAIN



CUSTODIAN CLOSET - 209 1/4" = 1'-0" 2

AGENCY APPROVAL **CSU** 03-122884

CSU The California State University
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Approved by: **DS** 07/19/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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No. 22474
After Strubel
REN 10-31-25
STATE OF CALIFORNIA

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SHEET TITLE

RESTROOM ENLARGED PLANS & INT. ELEVATIONS

DRAWN BY: FD JOB NUMBER: 21179.01

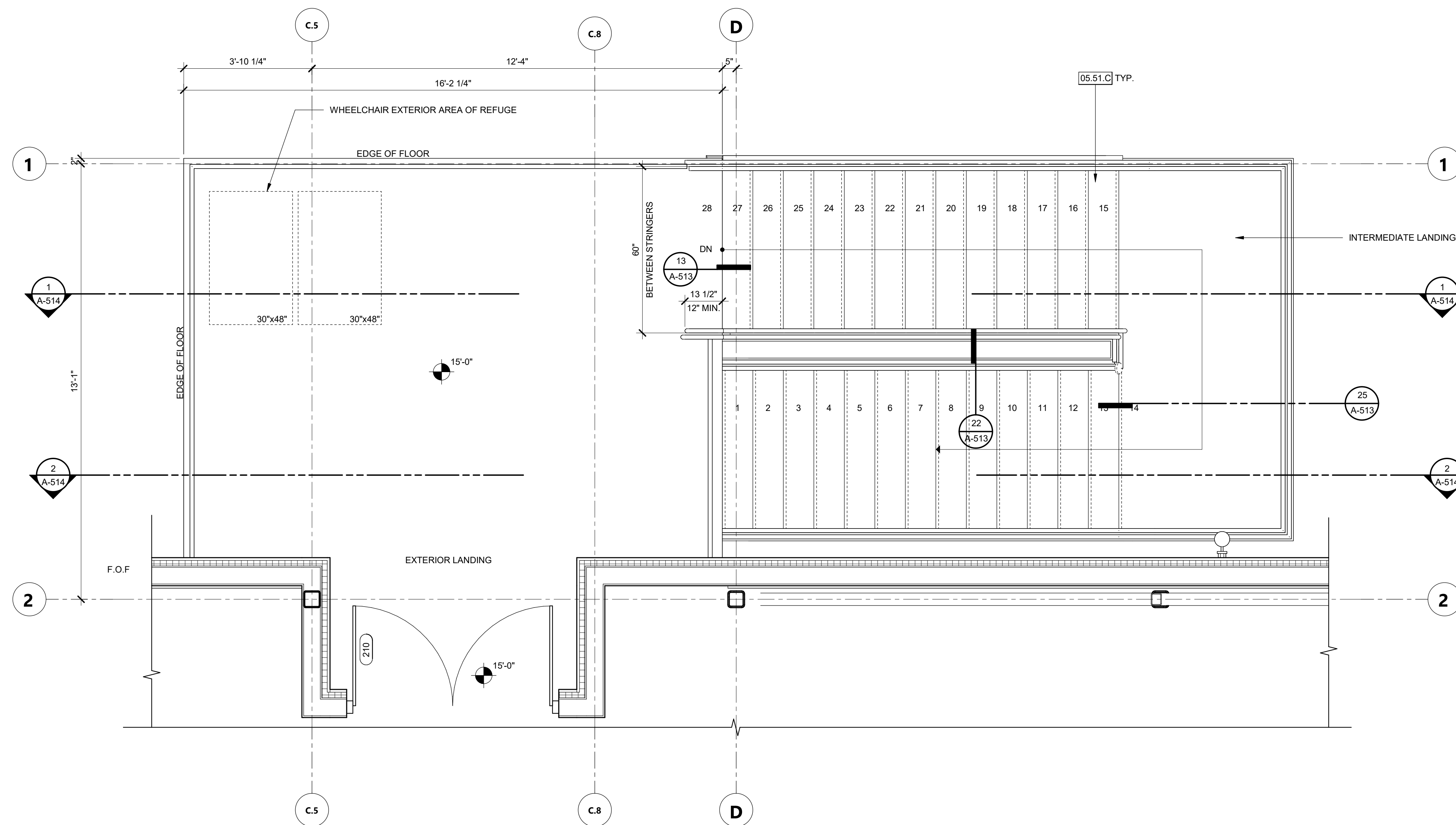
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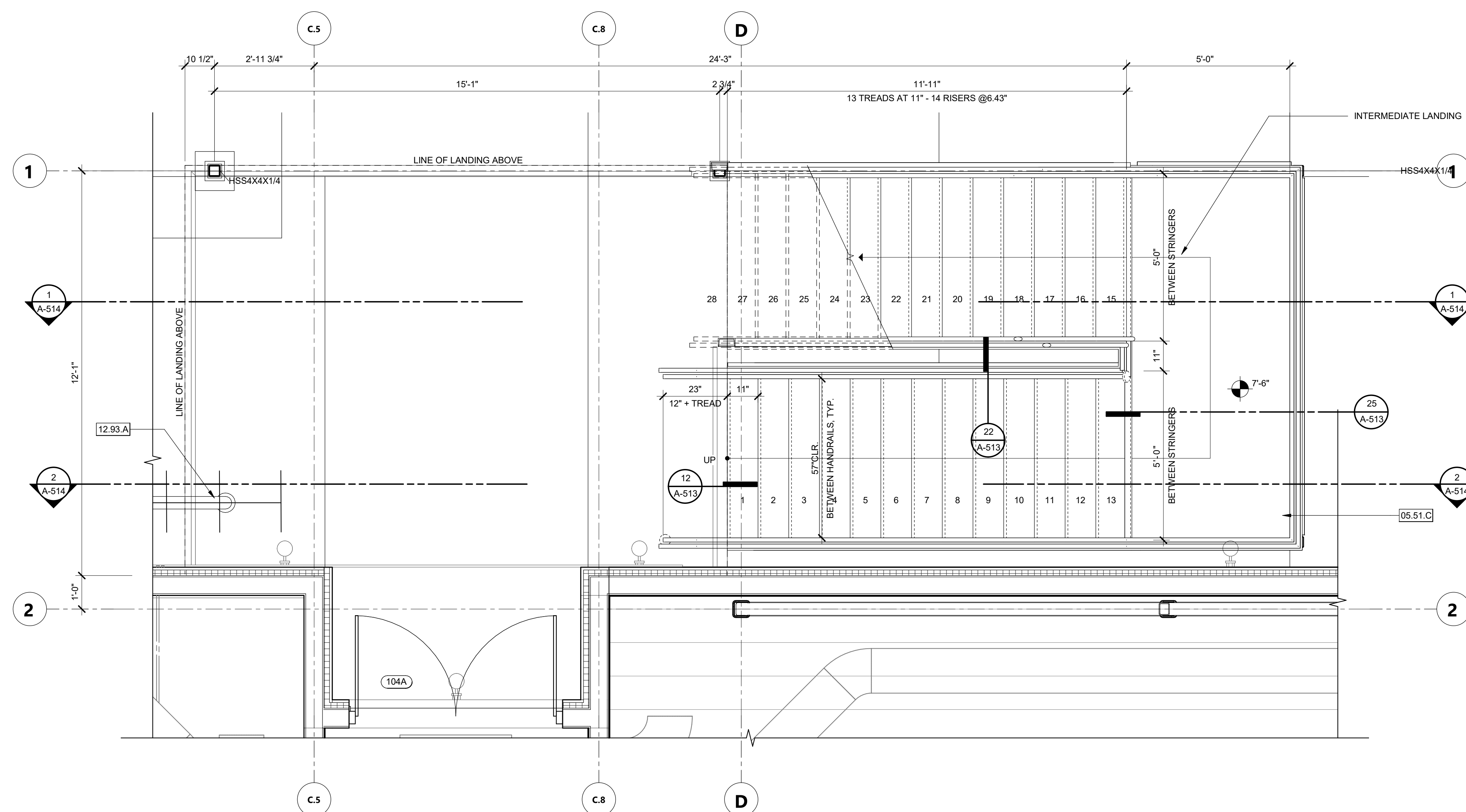
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ENLARGED STAIR PLAN - 2ND FLOOR 1/2" = 1'-0" 2



ENLARGED STAIR PLAN - 1ST FLOOR - EXTERIOR 1/2" = 1'-0" 1

KEYNOTES

05.51.C METAL STAIRCASE WITH CONCRETE FILLED STEEL PAN TREADS
 12.93.A BIKE RACKS PER SPECIFICATION SECTION 12.93.13

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SHEET TITLE

ENLARGED STAIR PLANS

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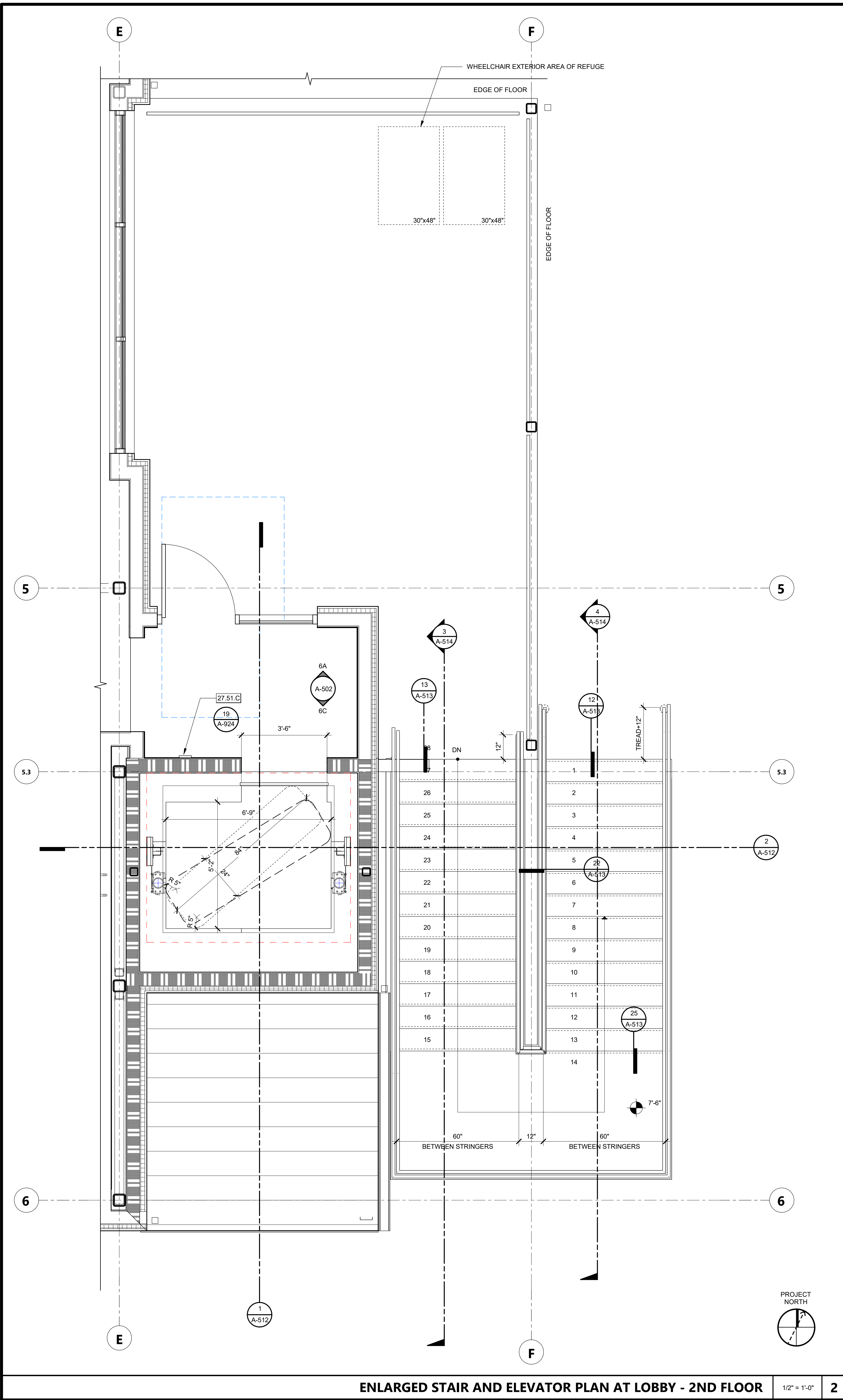
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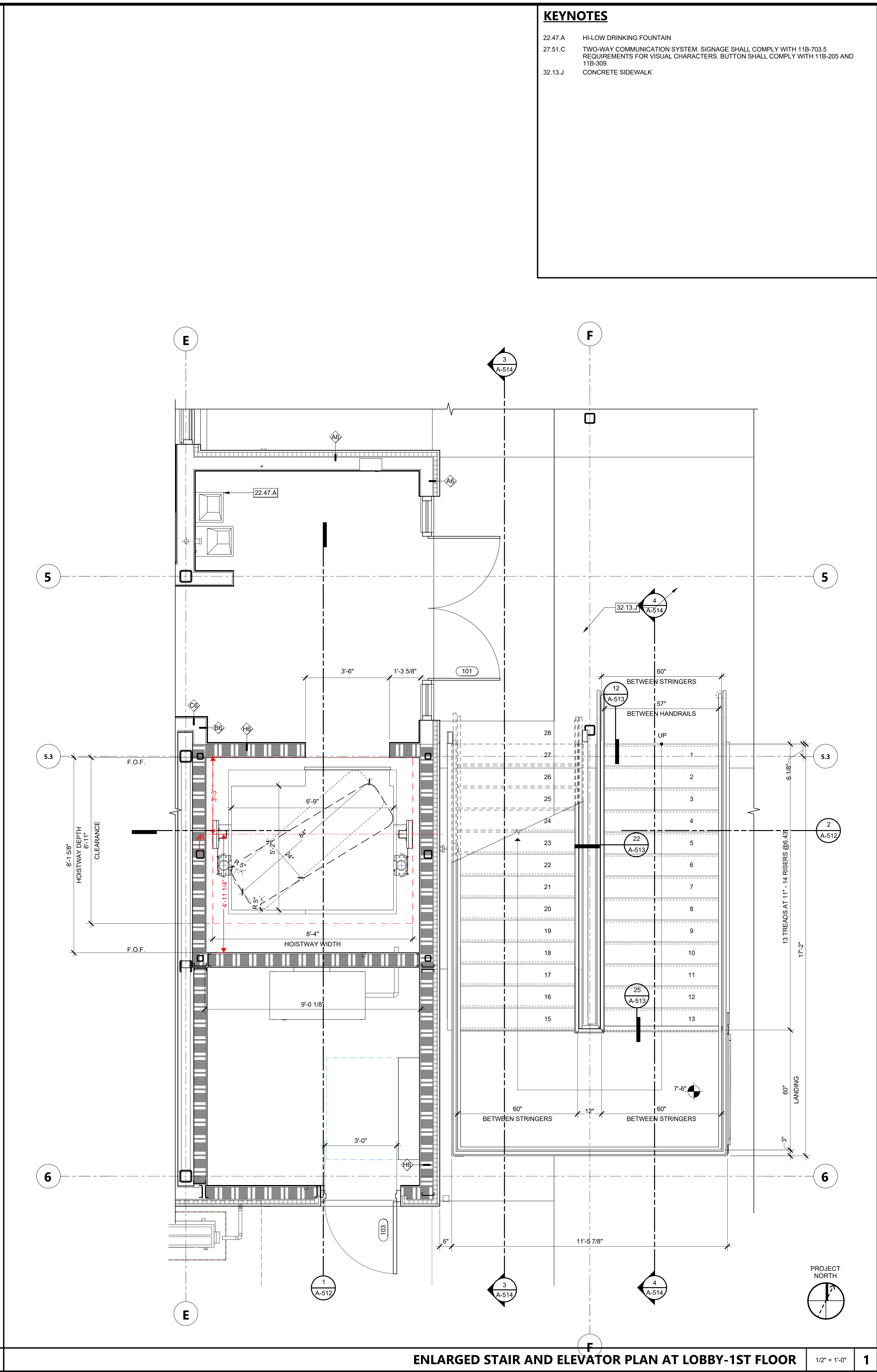
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ENLARGED STAIR AND ELEVATOR PLAN AT LOBBY - 2ND FLOOR 1/2" = 1'-0" 2



ENLARGED STAIR AND ELEVATOR PLAN AT LOBBY - 1ST FLOOR 1/2" = 1'-0" 1

KEYNOTES

- 22.47.A HI-LOW DRINKING FOUNTAIN
- 27.51.C TWO-WAY COMMUNICATION SYSTEM. SIGNAGE SHALL COMPLY WITH 11B-703.5 REQUIREMENTS FOR VISUAL CHARACTERS. BUTTON SHALL COMPLY WITH 11B-205 AND 11B-309.
- 32.13.J CONCRETE SIDEWALK

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SHEET TITLE

ENLARGED STAIR AND ELEVATOR PLANS

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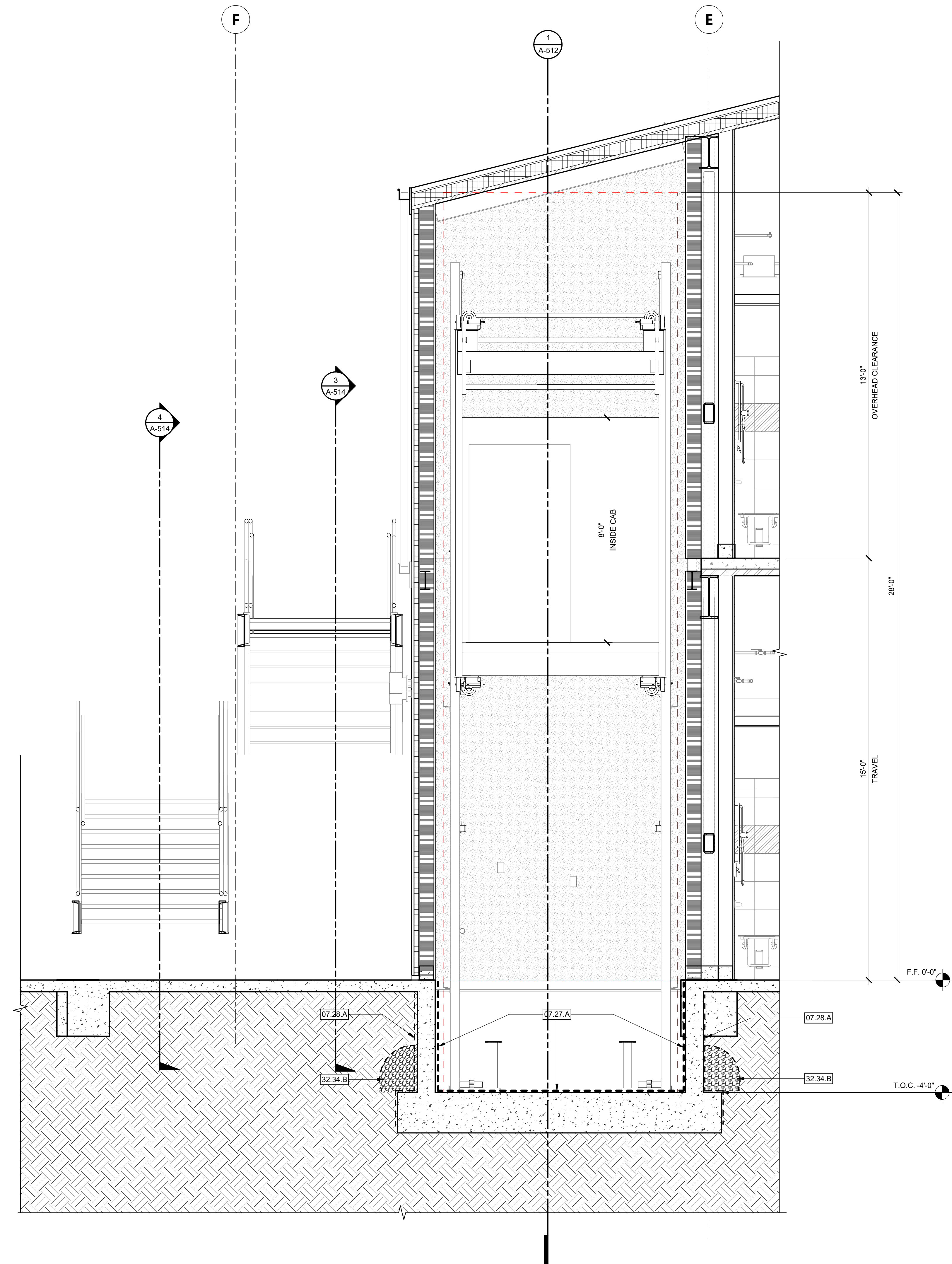
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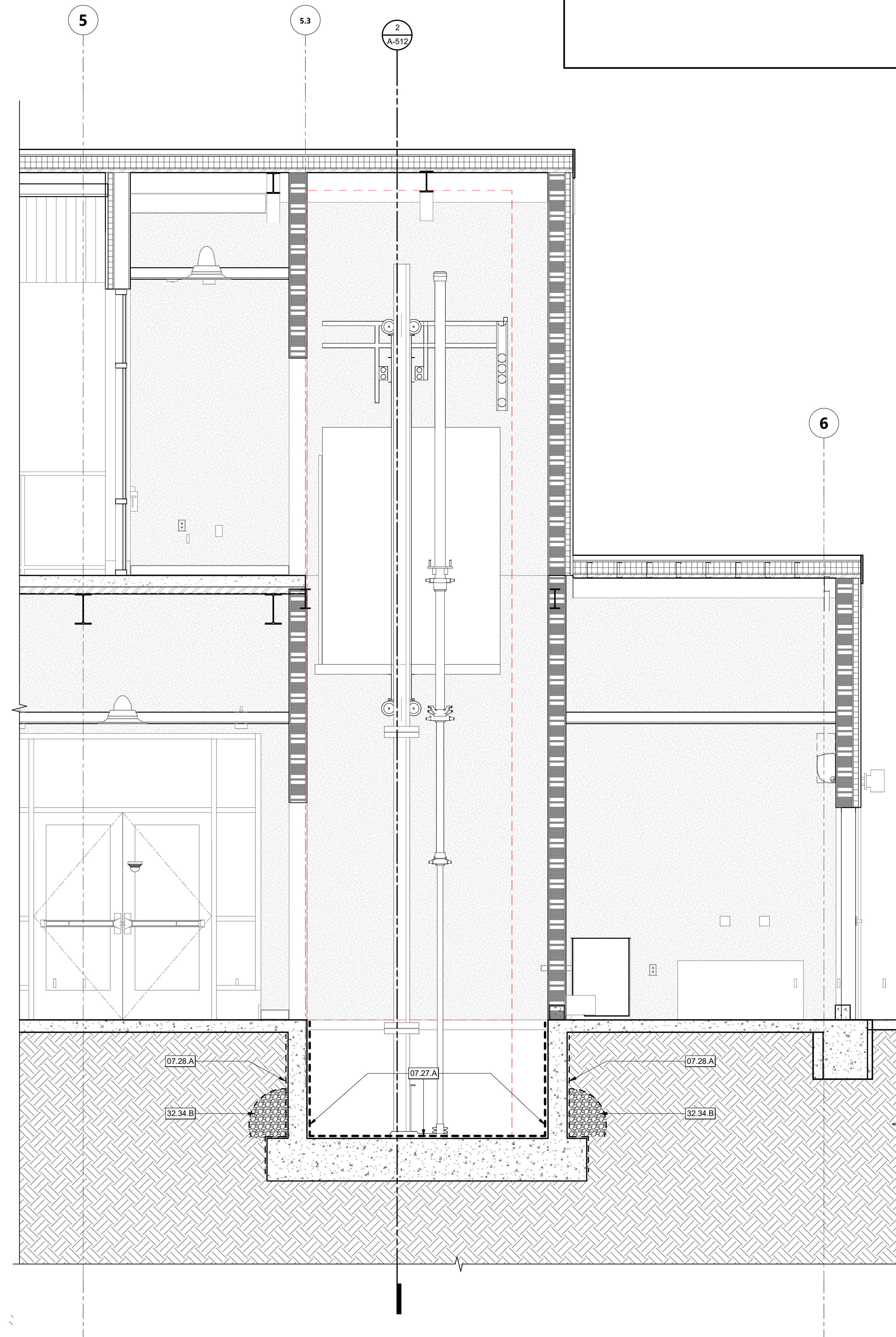
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ELEVATOR SECTION 1/2" = 1'-0" 2



ELEVATOR SECTION 1/2" = 1'-0" 1

KEYNOTES
 07.27 A CRYSTALLINE WATER PROOFING PER SPECIFICATIONS
 07.28 A SELF ADHERED BITUTHENE WATERPROOFING MEMBRANE ON MEMBRANE PRIMER PER SPECIFICATIONS
 32.34 B MIN. 1 CUBIC FOOT OF GRAVEL (PER FOOT), WRAP GRAVEL IN MIRAFI 140 N OR EQUIV. FILTER

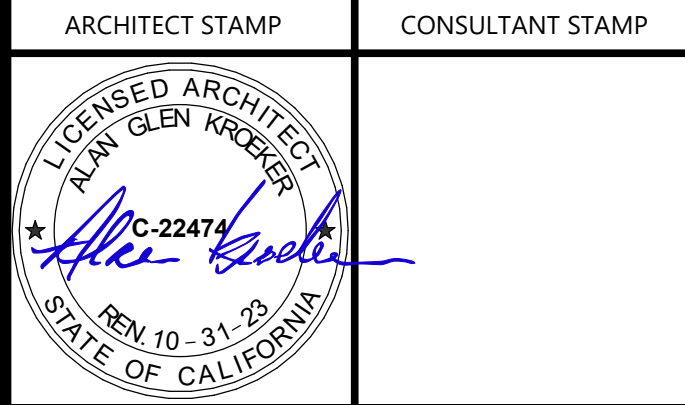
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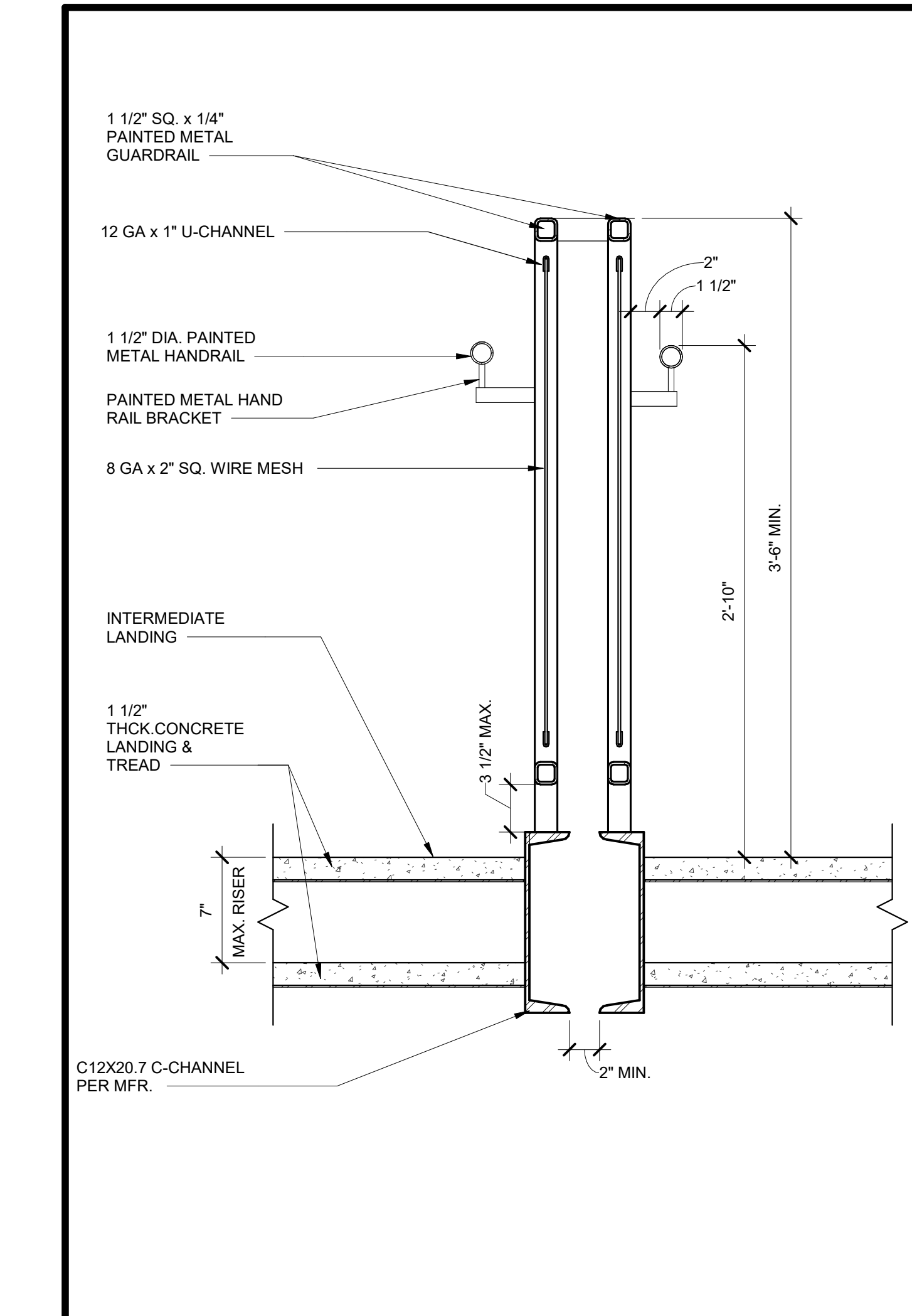
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ENLARGED STAIR AND ELEVATOR SECTIONS

DRAWN BY: MB JOB NUMBER: 21179.01

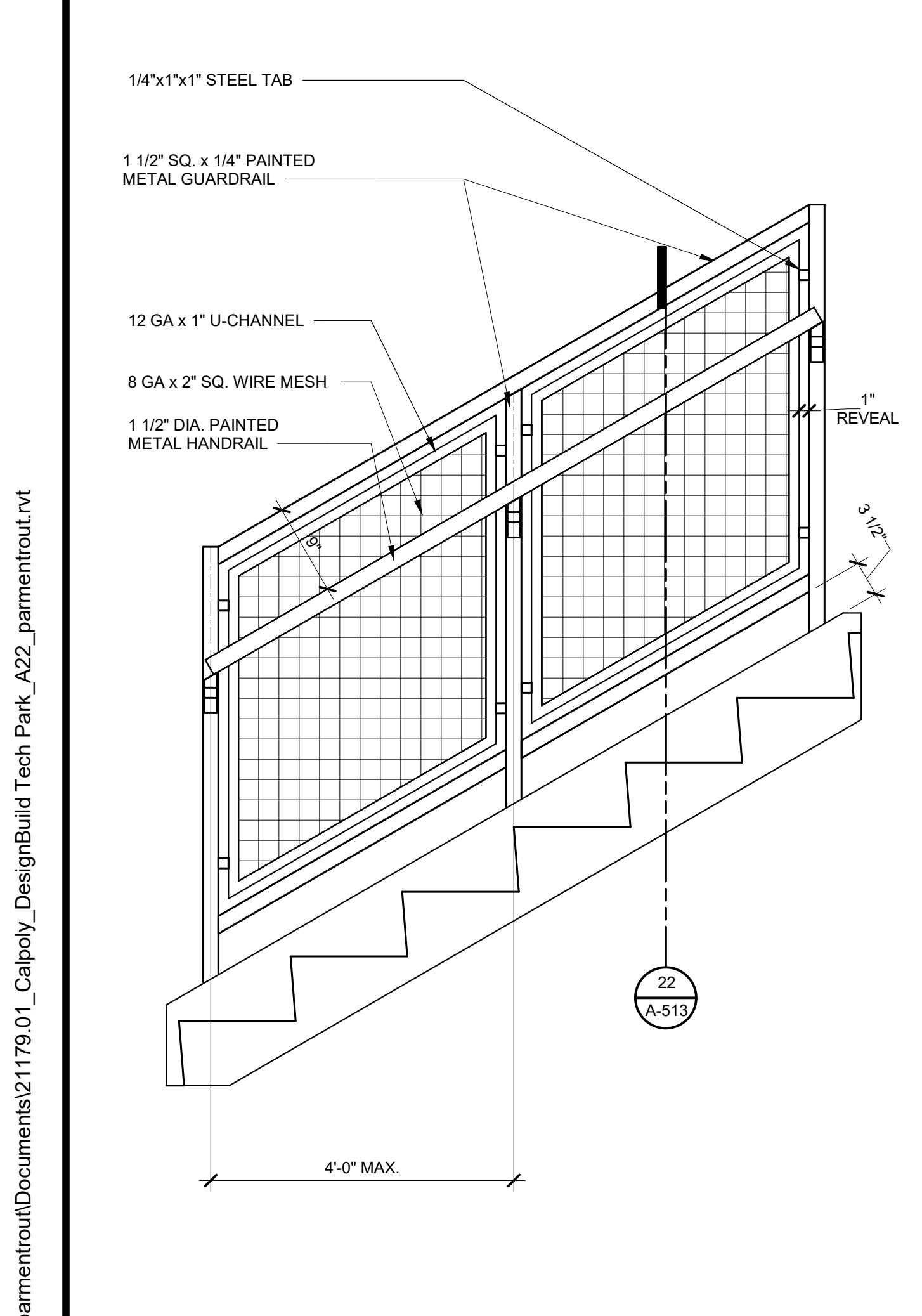
SHEET NO.

A-512
 DATE: MARCH 31, 2023

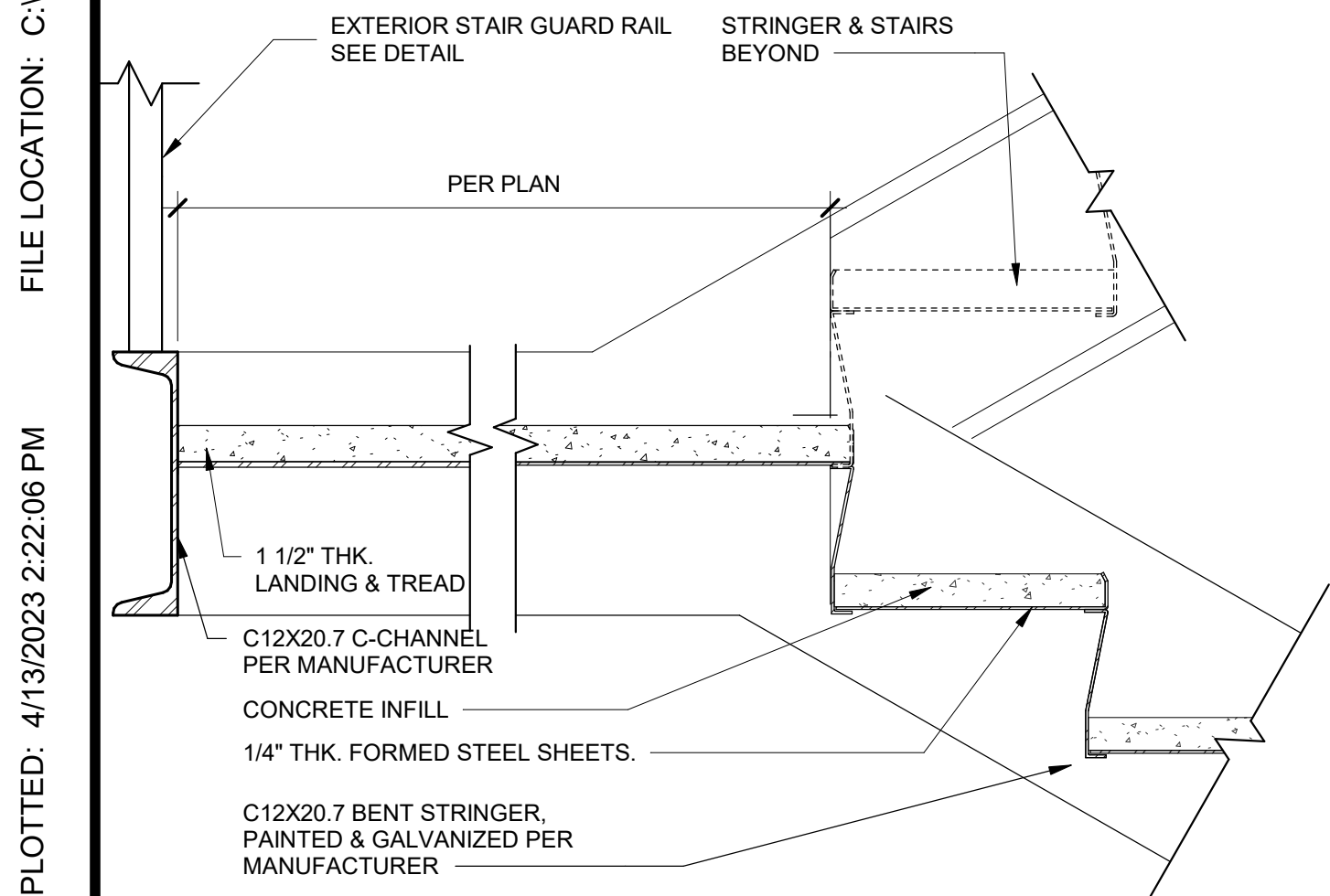
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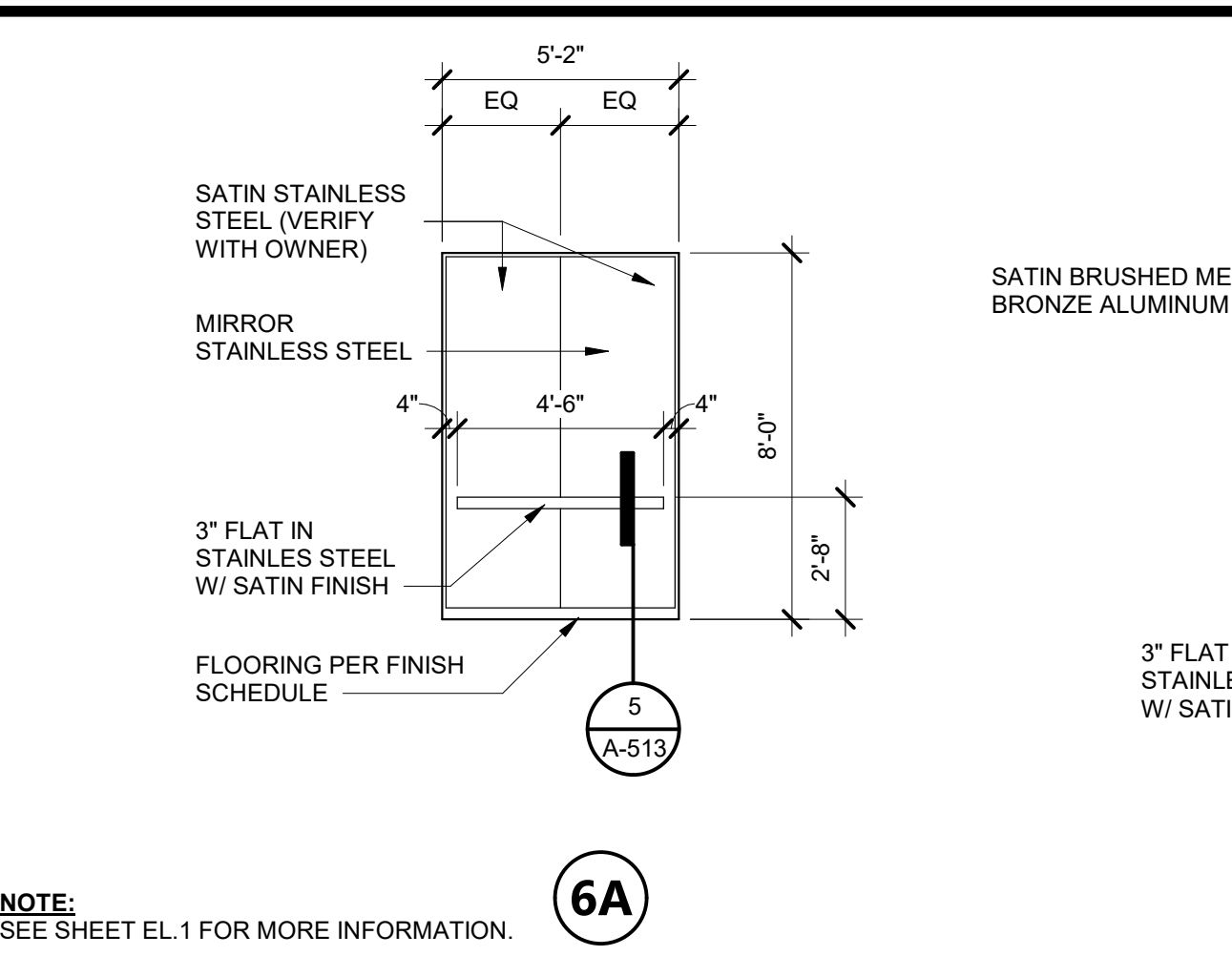
STAIR STRINGERS AT INT. LANDING 1 1/2" = 1'-0" 22



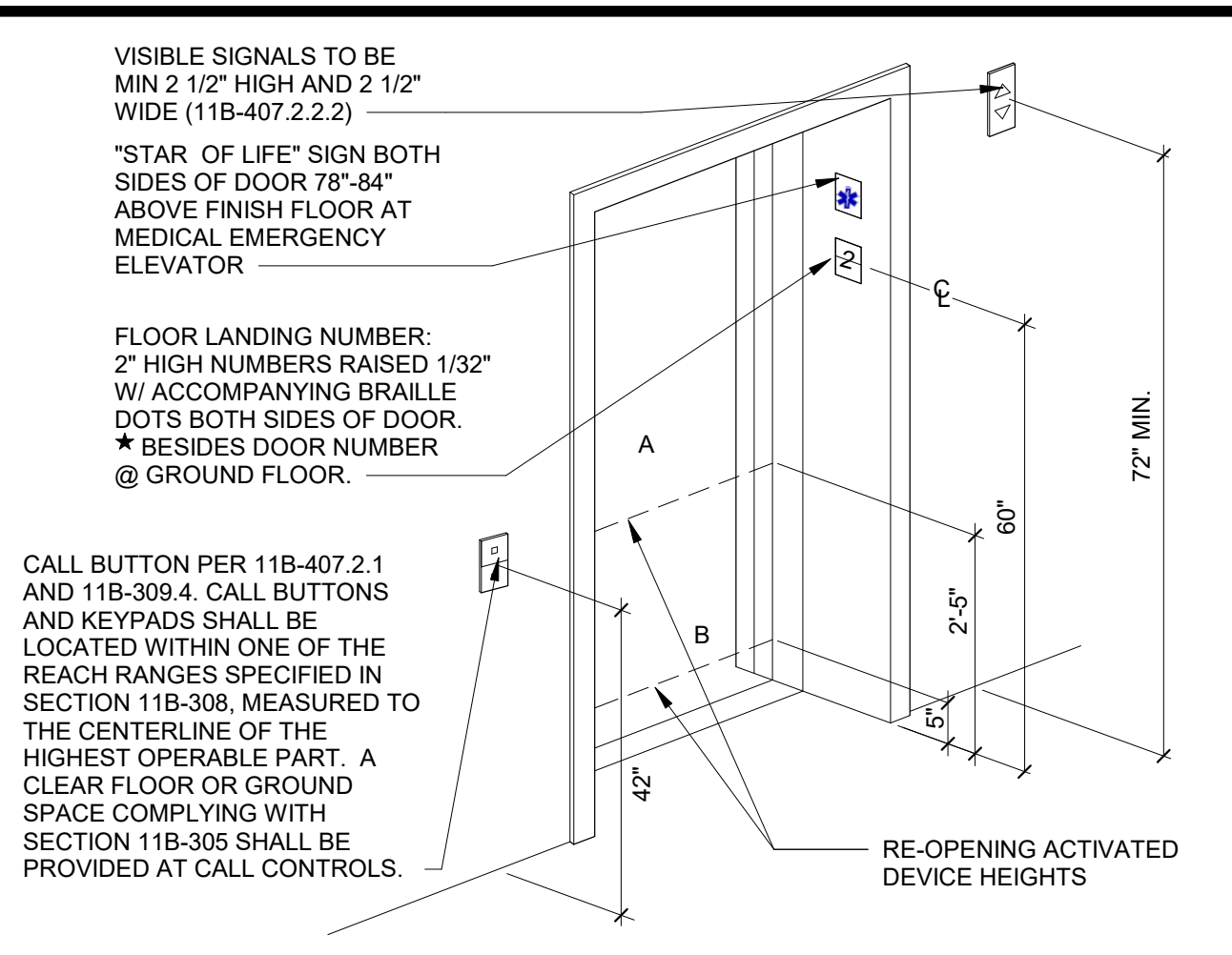
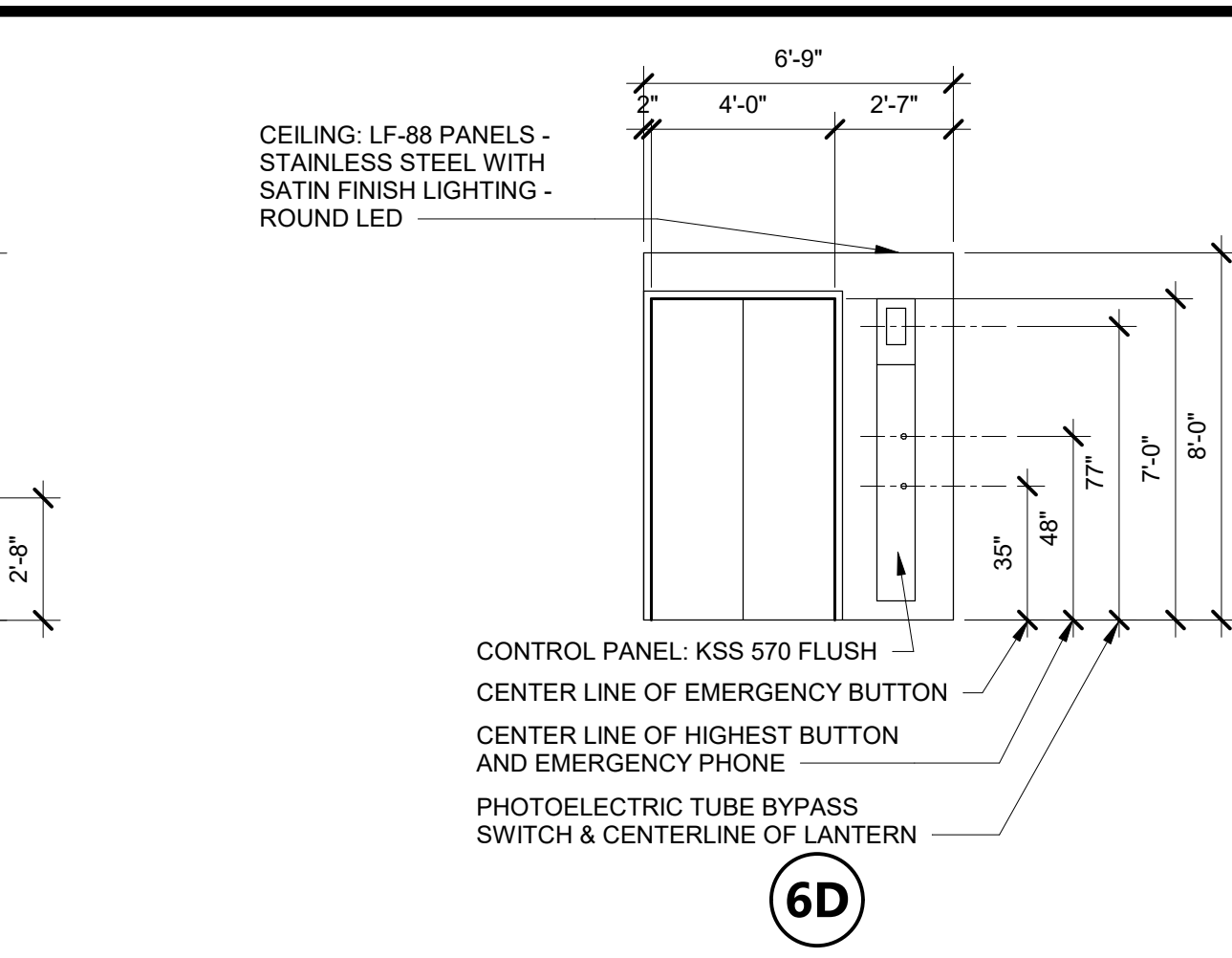
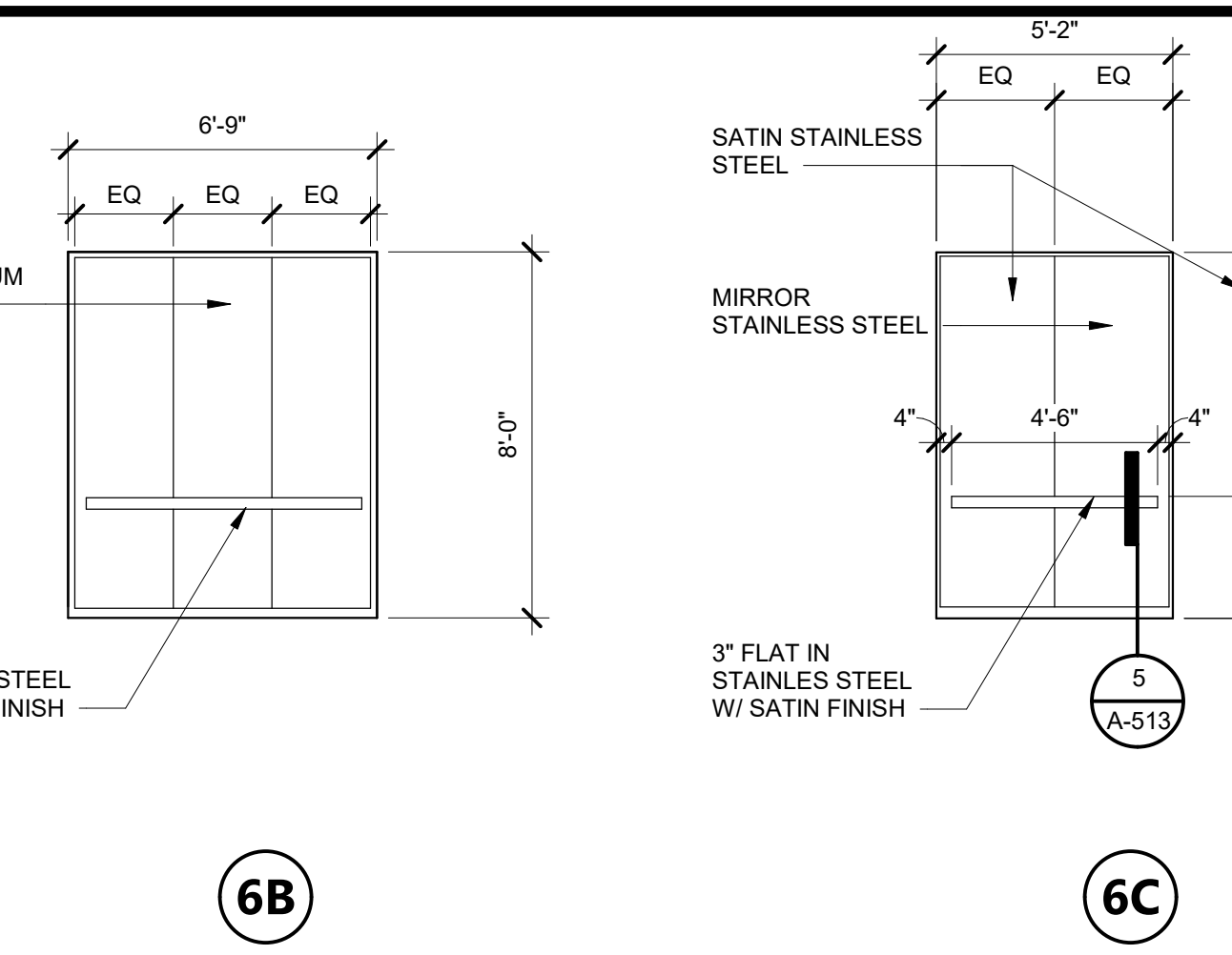
GUARDRAIL TYP. ELEVATION 1" = 1'-0" 24



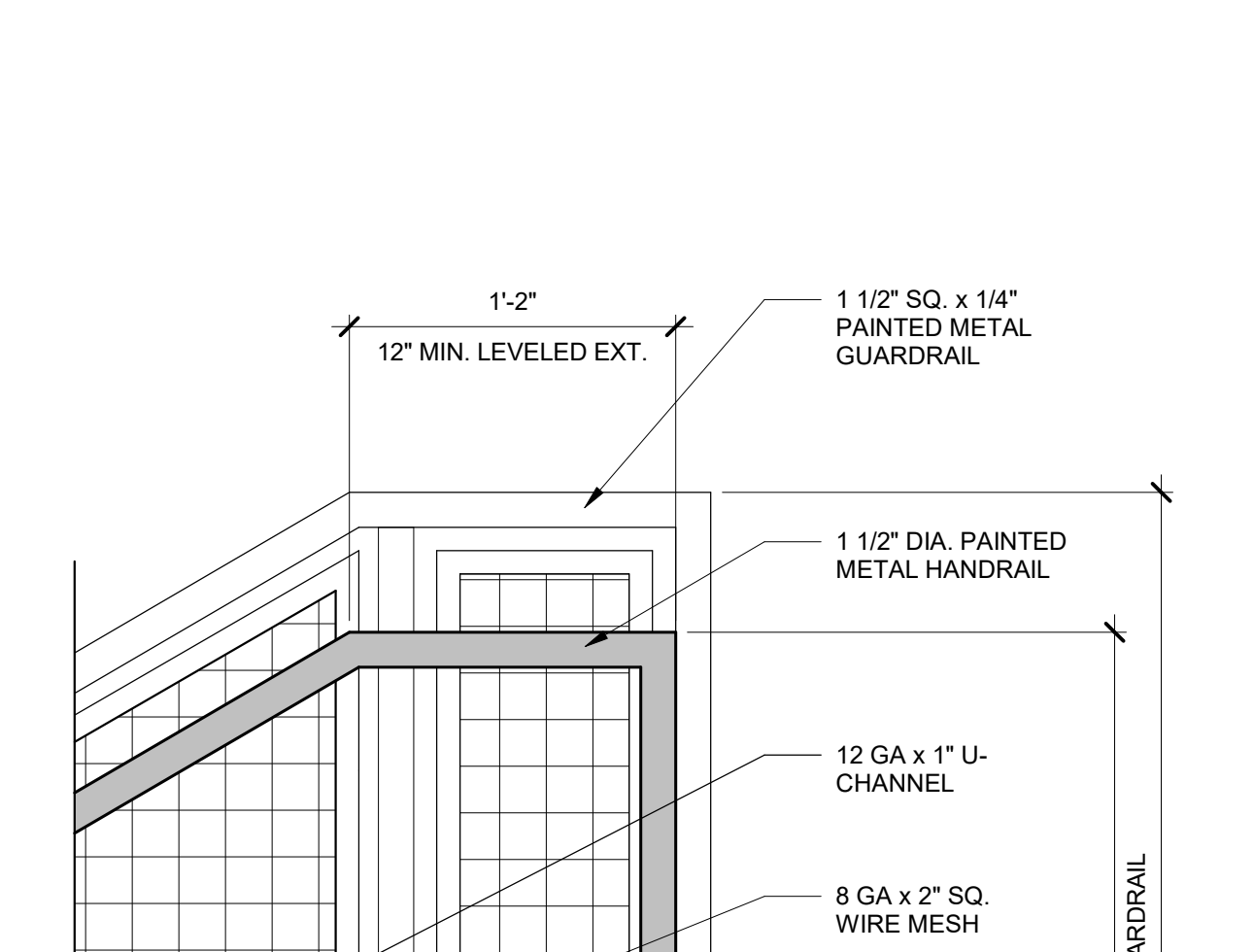
METAL PAN STAIR @ MID-LANDING 1 1/2" = 1'-0" 25



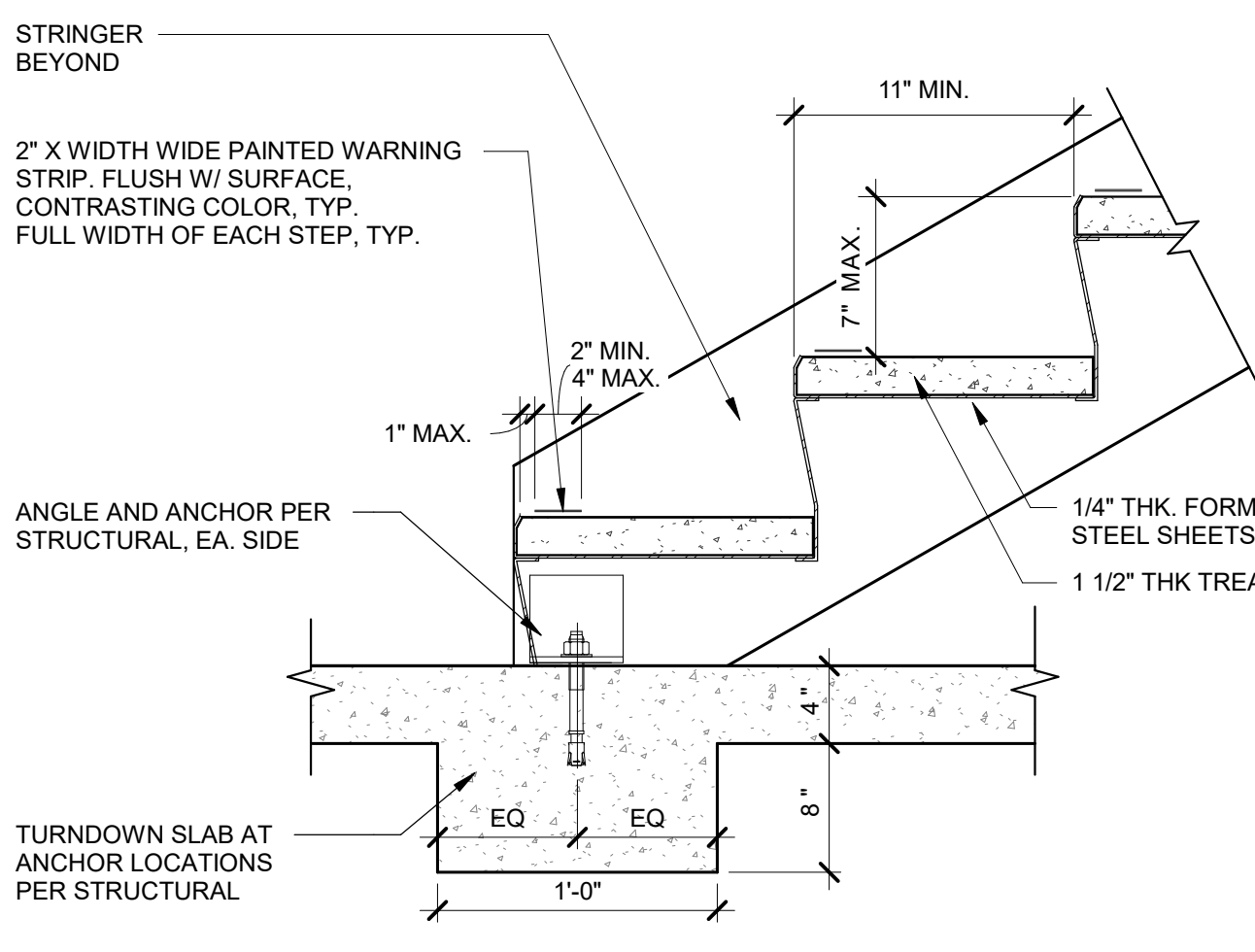
ELEVATOR ELEVATIONS 1/4" = 1'-0"



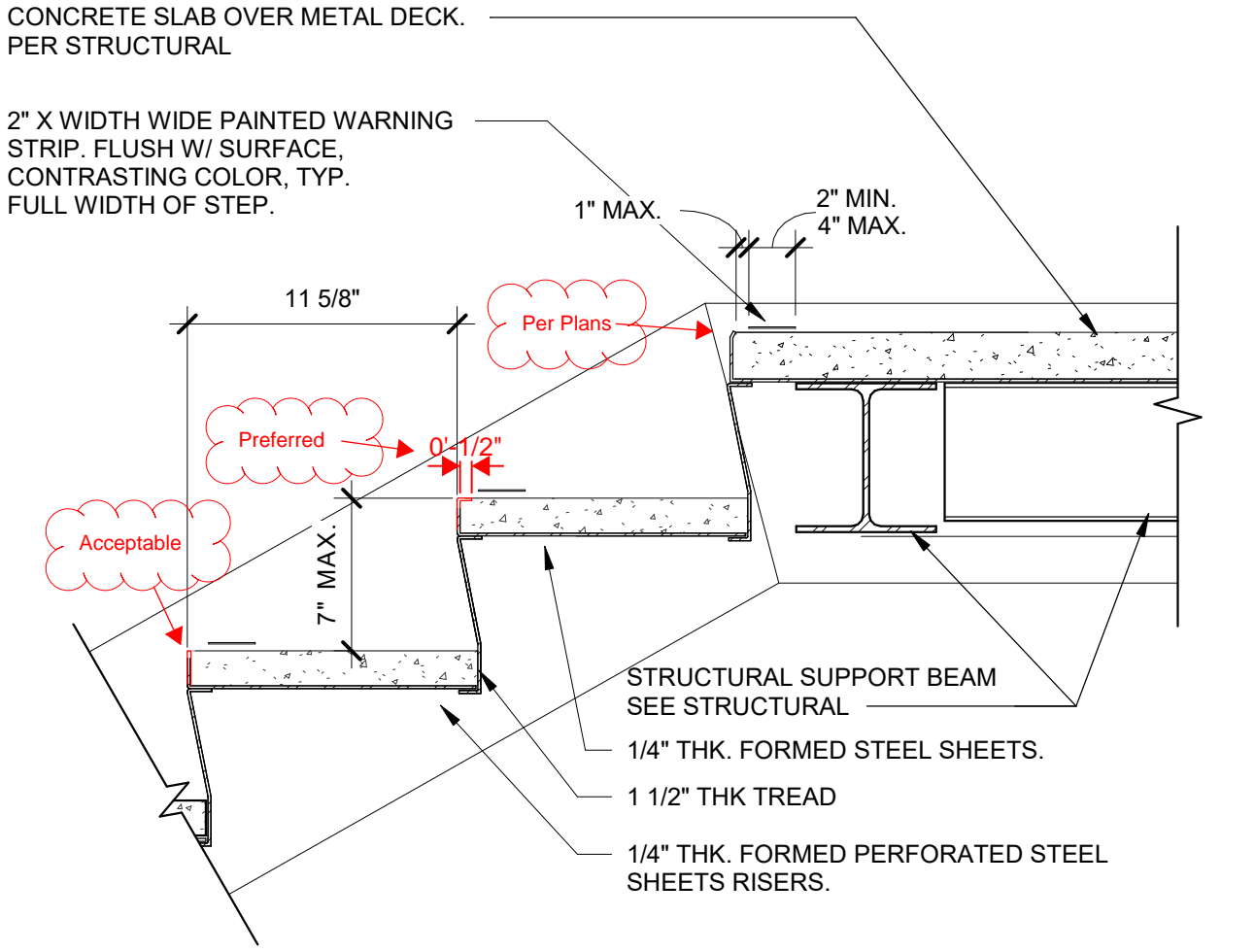
ELEVATOR CONTROLS AND SIGNAGE 1/2" = 1'-0" 1



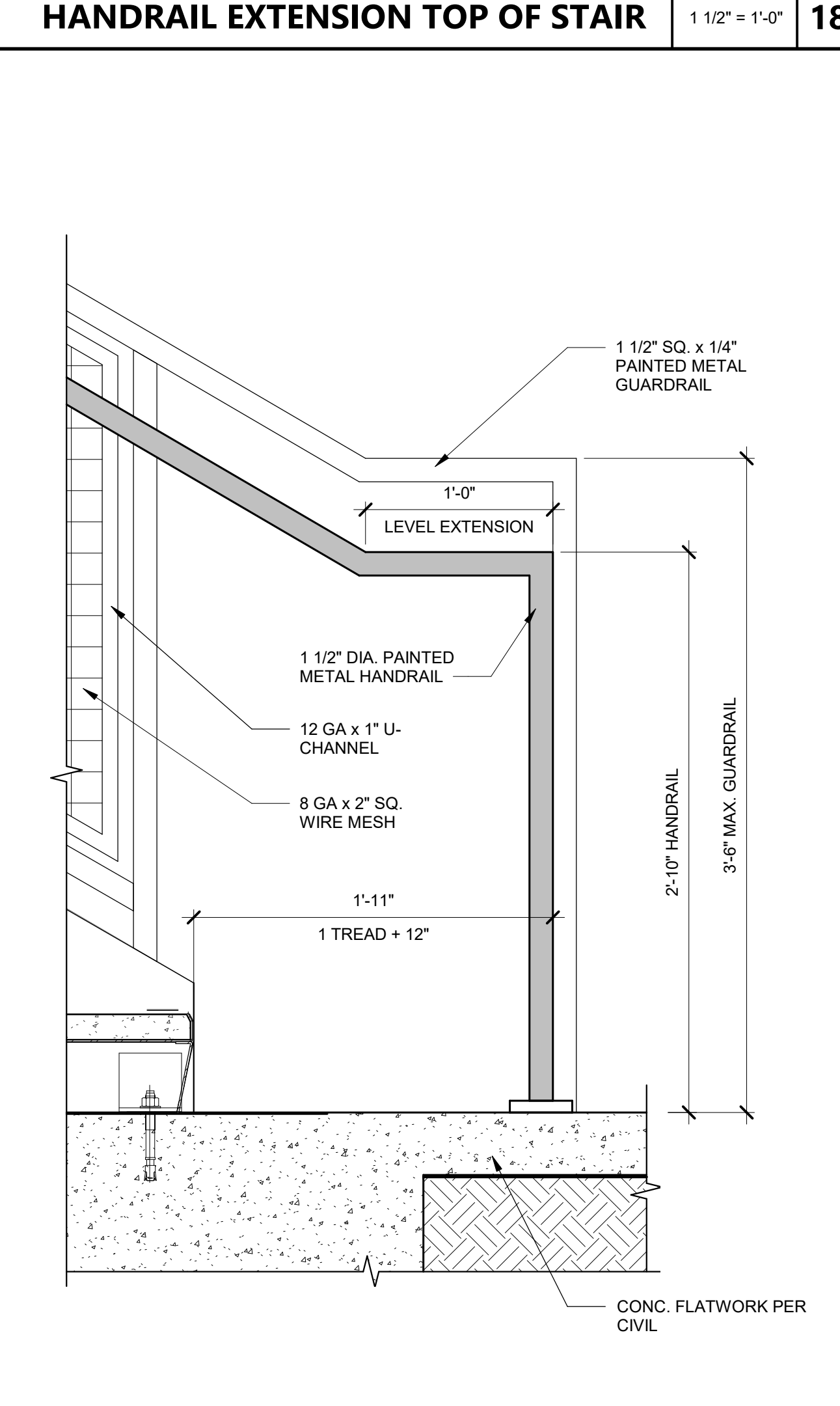
HANDRAIL EXTENSION TOP OF STAIR 1 1/2" = 1'-0" 18



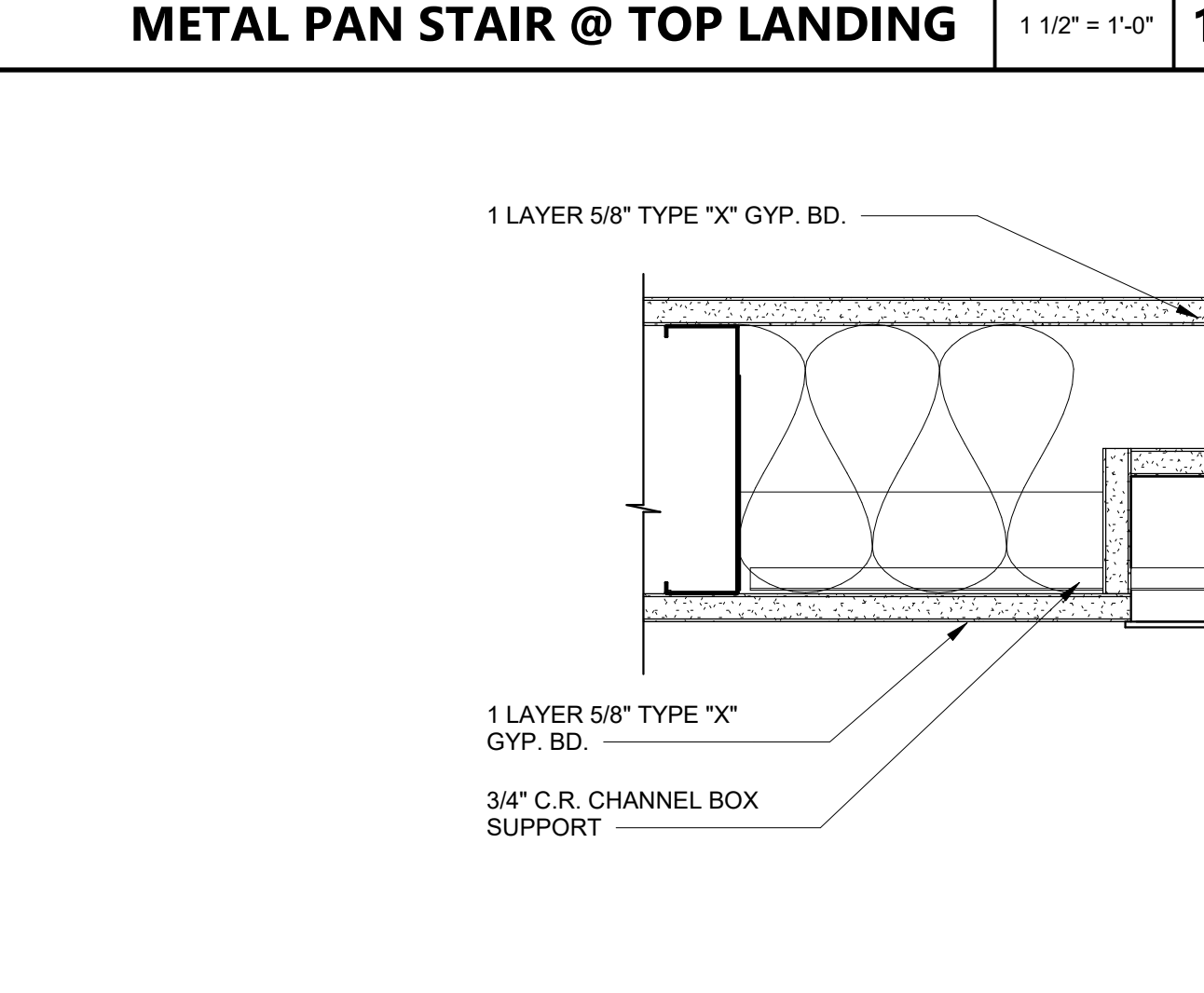
METAL PAN STAIR @ BOTTOM LANDING 1 1/2" = 1'-0" 12



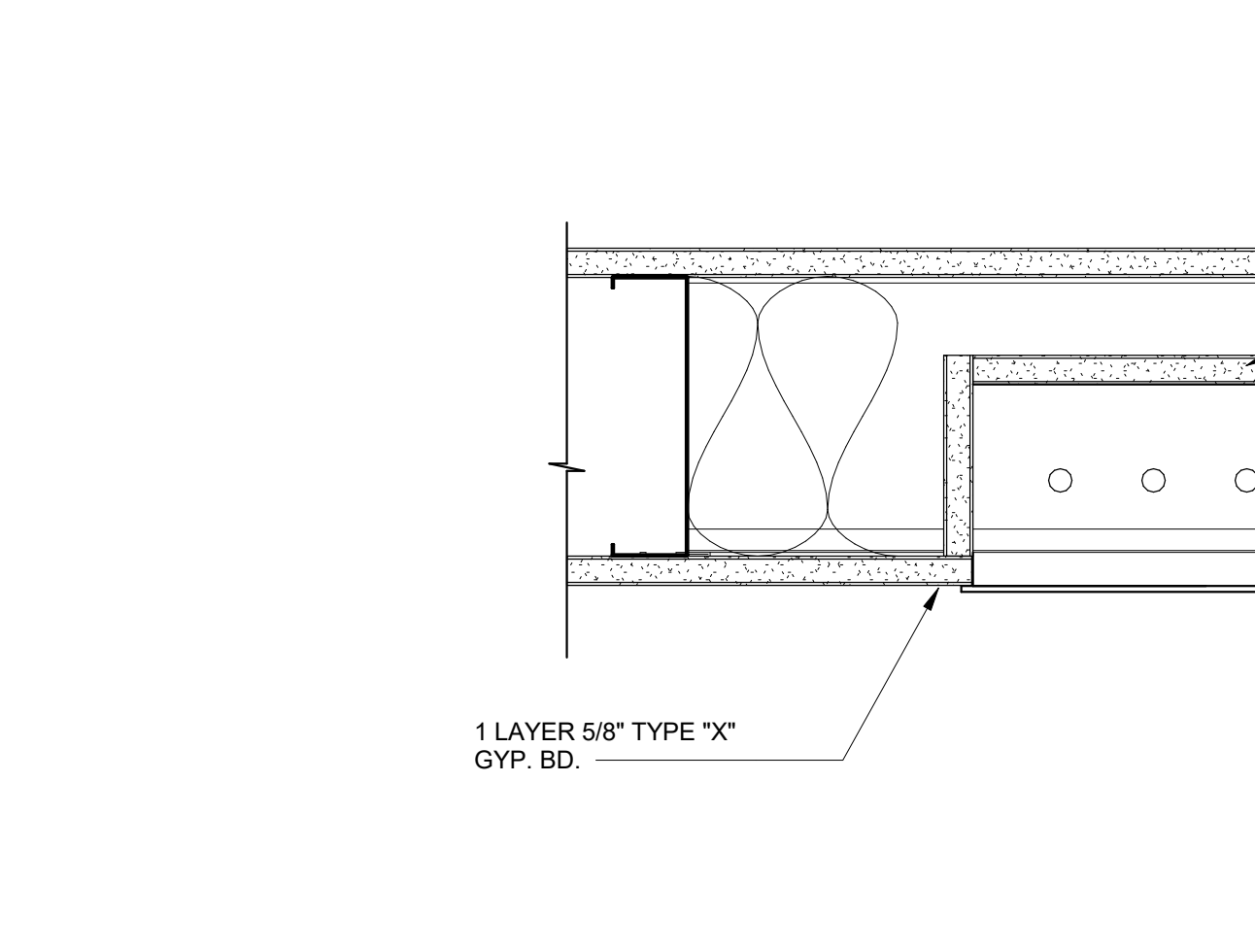
METAL PAN STAIR @ TOP LANDING 1 1/2" = 1'-0" 13



HANDRAIL EXTENSION BOT. OF STAIR 1 1/2" = 1'-0" 20

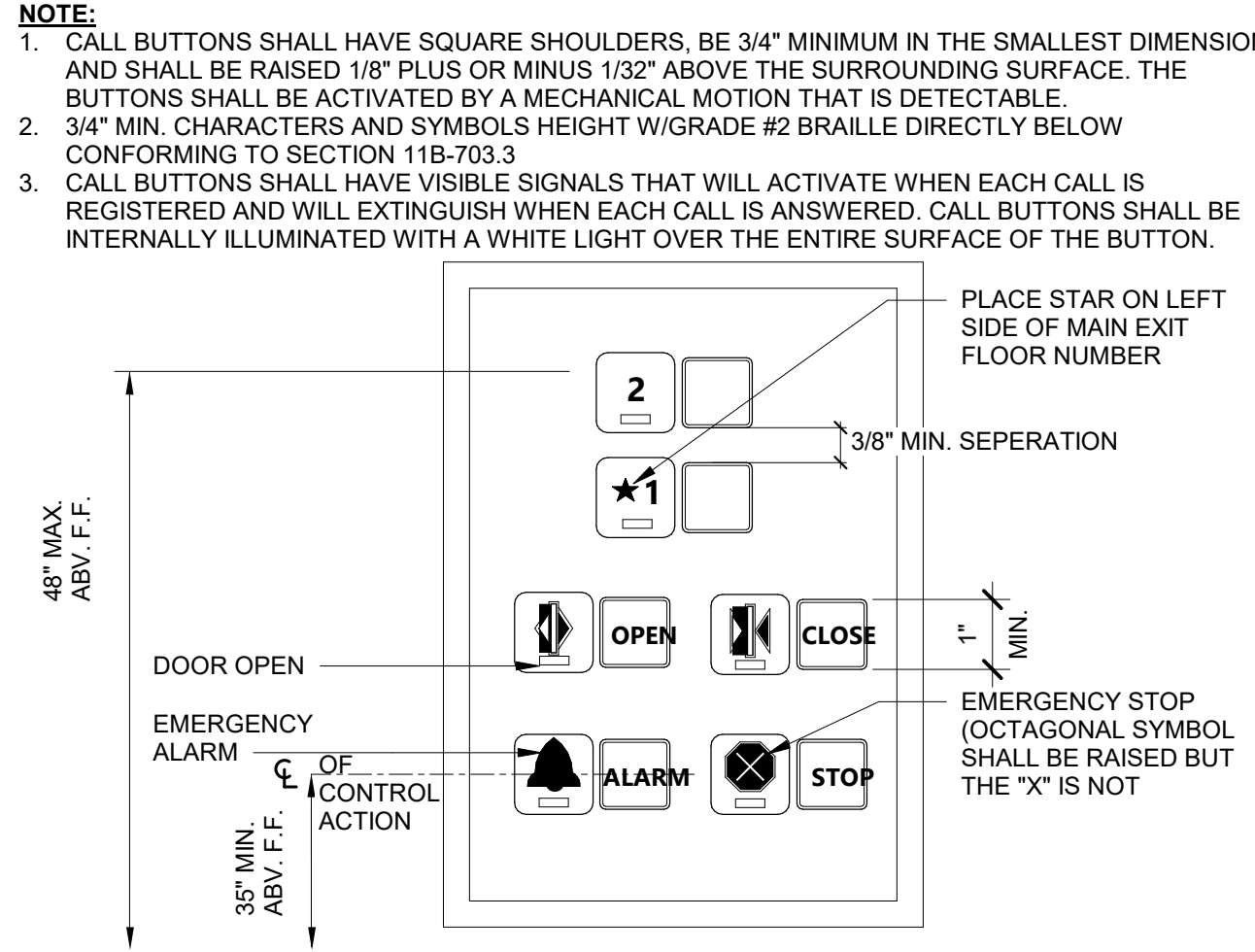


1 HR. WALL PLAN AT CALL BOX OR OUTLET BOX 3" = 1'-0" 9

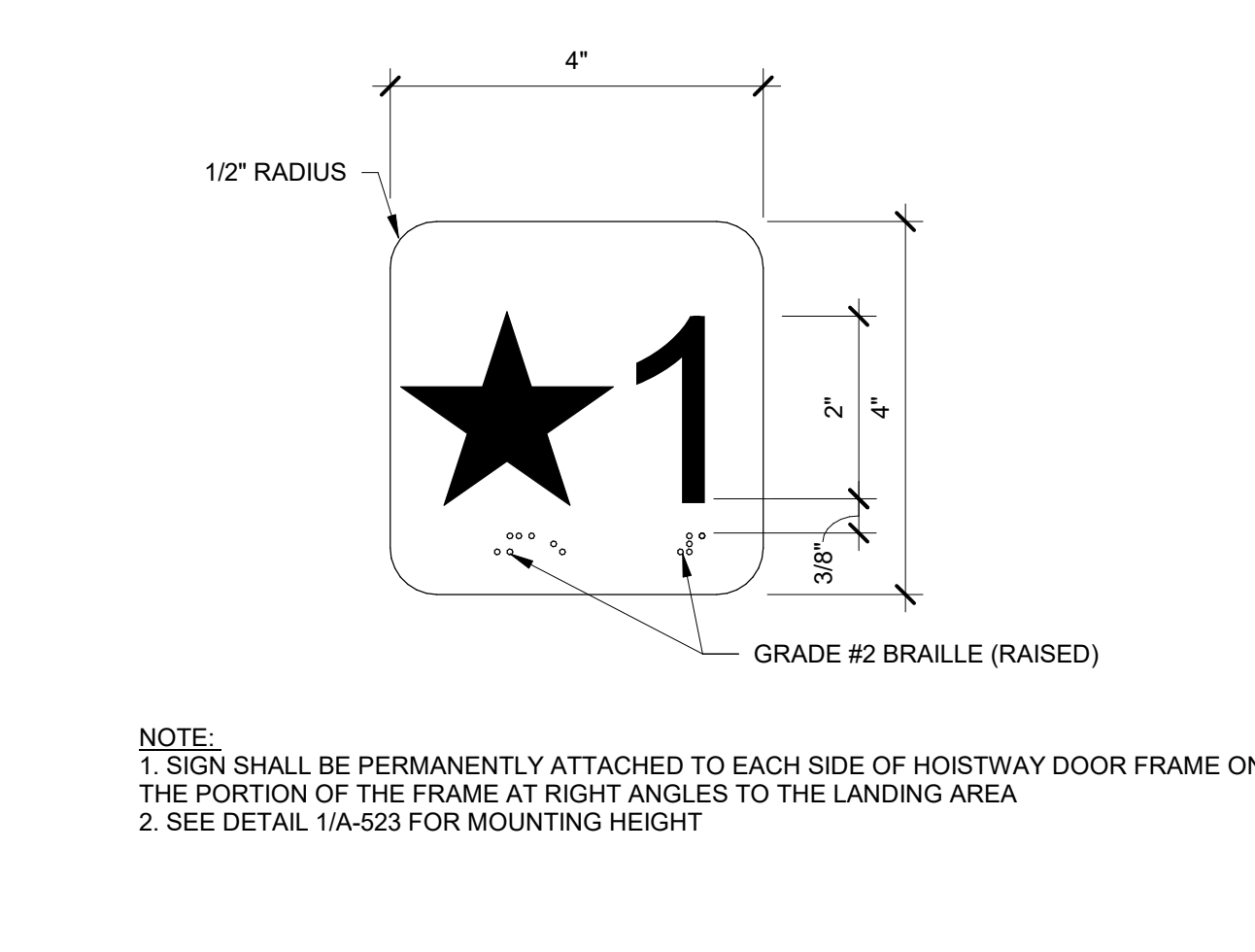


1 HR. WALL AT FLOOR PLAN INDICATOR BOX 3" = 1'-0" 10

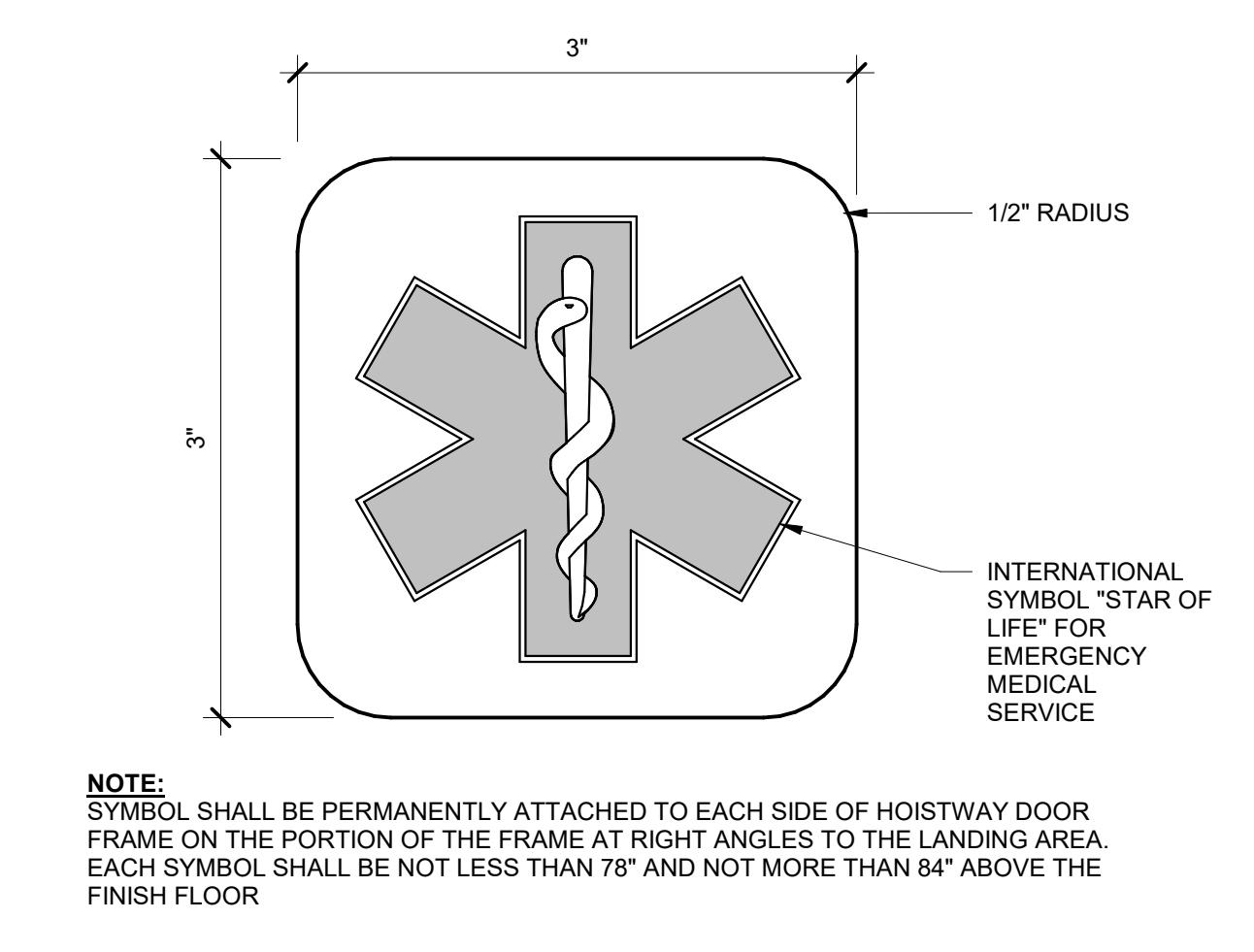
- ELEVATOR NOTES**
- AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION, OR SHALL HAVE VERBAL ANNUNCIATORS THAT INDICATE THE DIRECTION OF ELEVATOR CAR TRAVEL. AUDIBLE SIGNALS SHALL HAVE A FREQUENCY OF 1500 HZ MAXIMUM. VERBAL ANNUNCIATORS SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM AND 3000 HZ MAXIMUM. THE AUDIBLE SIGNAL AND VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 90 DB, MEASURED AT THE HALL CALL BUTTON.
 - A VISUAL AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE INDICATING TO THE PROSPECTIVE PASSENGER THE CAR ANSWERING THE CALL AND ITS DIRECTION OF TRAVEL AS FOLLOWS:
 - THE VISUAL SIGNAL FOR EACH DIRECTION SHALL BE A MINIMUM OF 2" J/2" HIGH BY 2-1/2" WIDE, AND VISIBLE FROM THE PROXIMITY OF THE HALL CALL BUTTON.
 - THE AUDIBLE SIGNAL SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION OR SHALL HAVE VERBAL ANNUNCIATORS.
 - THE CENTER LINE OF THE FIXTURE SHALL BE LOCATED A MINIMUM OF 6" IN HEIGHT FROM THE LOBBY FLOOR.
 - EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING AND MAINTAIN THE CAR AT FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2 INCH (12.7 MM) UNDER RATED LOADING TO ZERO LOADING CONDITIONS.
 - THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS, PLATFORM, CAR THRESHOLD, AND CAR LANDINGS SHALL BE 6 FOOT-CANDELES MINIMUM.
 - WHERE PROVIDED, ELEVATOR CAR CONTROLS SHALL COMPLY WITH SECTIONS 11B-407.4.6 AND 11B-309.4.
 - CAR CONTROL KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH SECTION 11B-407.4.7.2.
 - CONTROL BUTTONS SHALL BE IDENTIFIED BY RAISED CHARACTERS OR SYMBOLS, WHITE ON A BLACK BACKGROUND, COMPLYING WITH SECTION 11B-703.2 AND BRAILLE COMPLYING WITH SECTION 11B-703.3.
 - RAISED CHARACTERS OR SYMBOLS AND BRAILLE DESIGNATIONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON TO WHICH THE DESIGNATIONS APPLY.
 - THE CONTROL BUTTON FOR THE EMERGENCY STOP, ALARM, DOOR OPEN, DOOR CLOSE, MAIN ENTRY FLOOR, AND PHONE, SHALL BE IDENTIFIED WITH RAISED SYMBOLS AND CHARACTERS AS SHOWN IN TABLE 11B-407.4.7.1.3.
 - BUTTONS WITH FLOOR DESIGNATIONS SHALL BE PROVIDED WITH VISIBLE INDICATORS TO SHOW THAT A CALL HAS BEEN REGISTERED. THE VISIBLE INDICATION SHALL EXTINGUISH WHEN THE CAR ARRIVES AT THE DESIGNATED FLOOR.
 - KEYPADS SHALL BE IDENTIFIED BY CHARACTERS COMPLYING WITH SECTION 11B-703.5 AND SHALL BE CENTERED ON THE CORRESPONDING KEYPAD BUTTON. THE NUMBER FIVE KEY SHALL HAVE A SINGLE RAISED DOT. THE DOT SHALL BE 0.118 INCH TO 0.120-INCH BASE DIAMETER AND IN OTHER ASPECTS COMPLY WITH TABLE 11B-703.3.1.
 - IF THE TELEPHONE OR DEVICE IS IN A CLOSED COMPARTMENT, THE COMPARTMENT DOOR HARDWARE SHALL COMPLY WITH SECTION 11B-309.
 - AUDIBLE AND VISIBLE CAR POSITION INDICATORS SHALL BE PROVIDED IN ELEVATOR CARS.
 - CHARACTERS SHALL BE 1/2-INCH (12.7 MM) HIGH MINIMUM.
 - INDICATORS SHALL BE LOCATED ABOVE THE CAR CONTROL PANEL OR ABOVE THE DOOR.
 - AS THE CAR PASSES A FLOOR AND WHEN A CAR STOPS AT A FLOOR SERVED BY THE ELEVATOR, THE CORRESPONDING CHARACTER SHALL ILLUMINATE.
 - FOR FIRE RATED DETAILS SEE A-911 AND A-912.



ELEVATOR FLOOR SIGNAGE 6" = 1'-0" 3



EMERGENCY MED. ELEV. "STAR OF LIFE" 12" = 1'-0" 4



ELEVATOR HANDRAIL 6" = 1'-0" 5

AGENCY APPROVAL DSA# 03-122884

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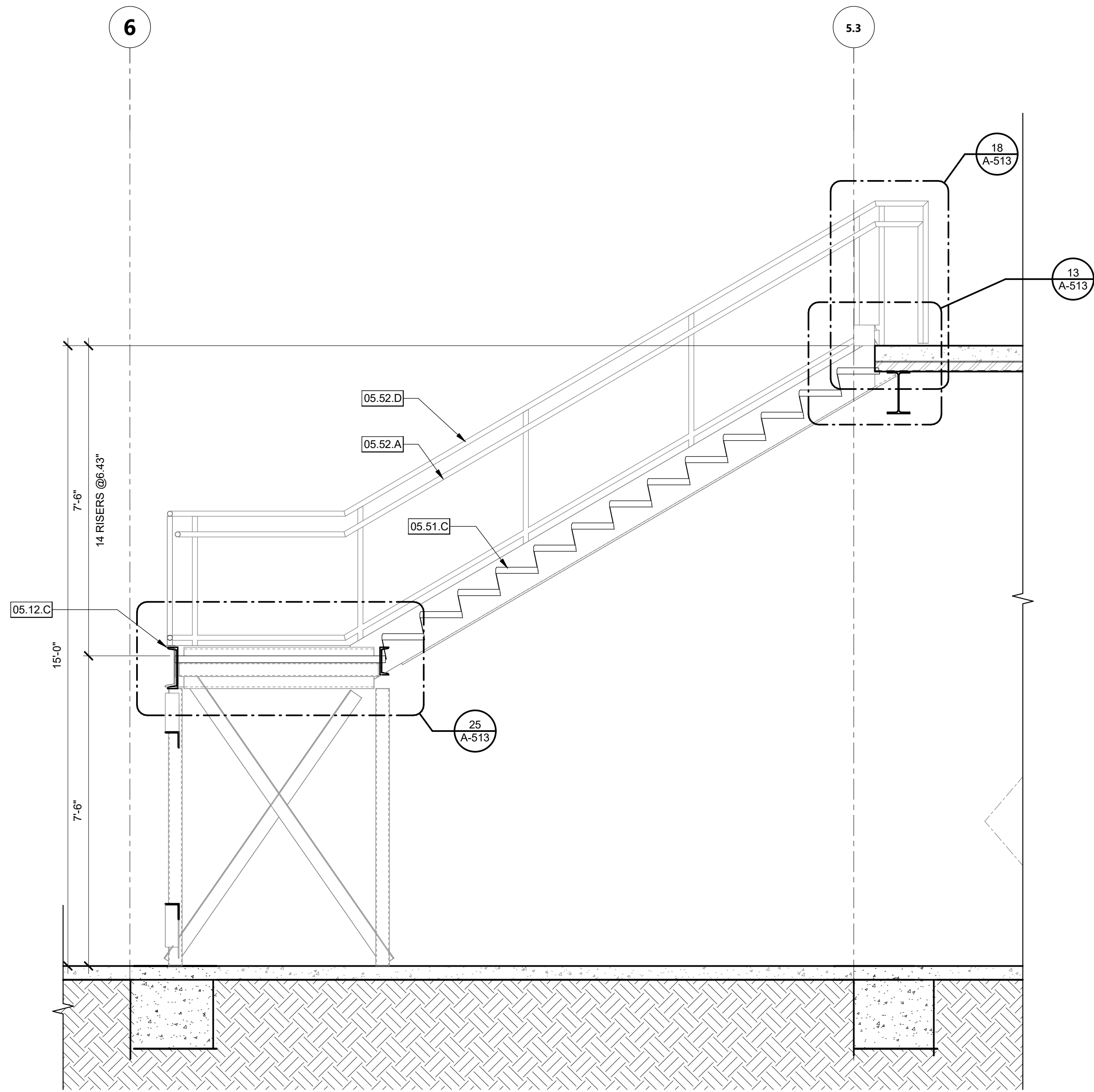
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Alfonso...
C-22474
REN 10-31-23
STATE OF CALIFORNIA

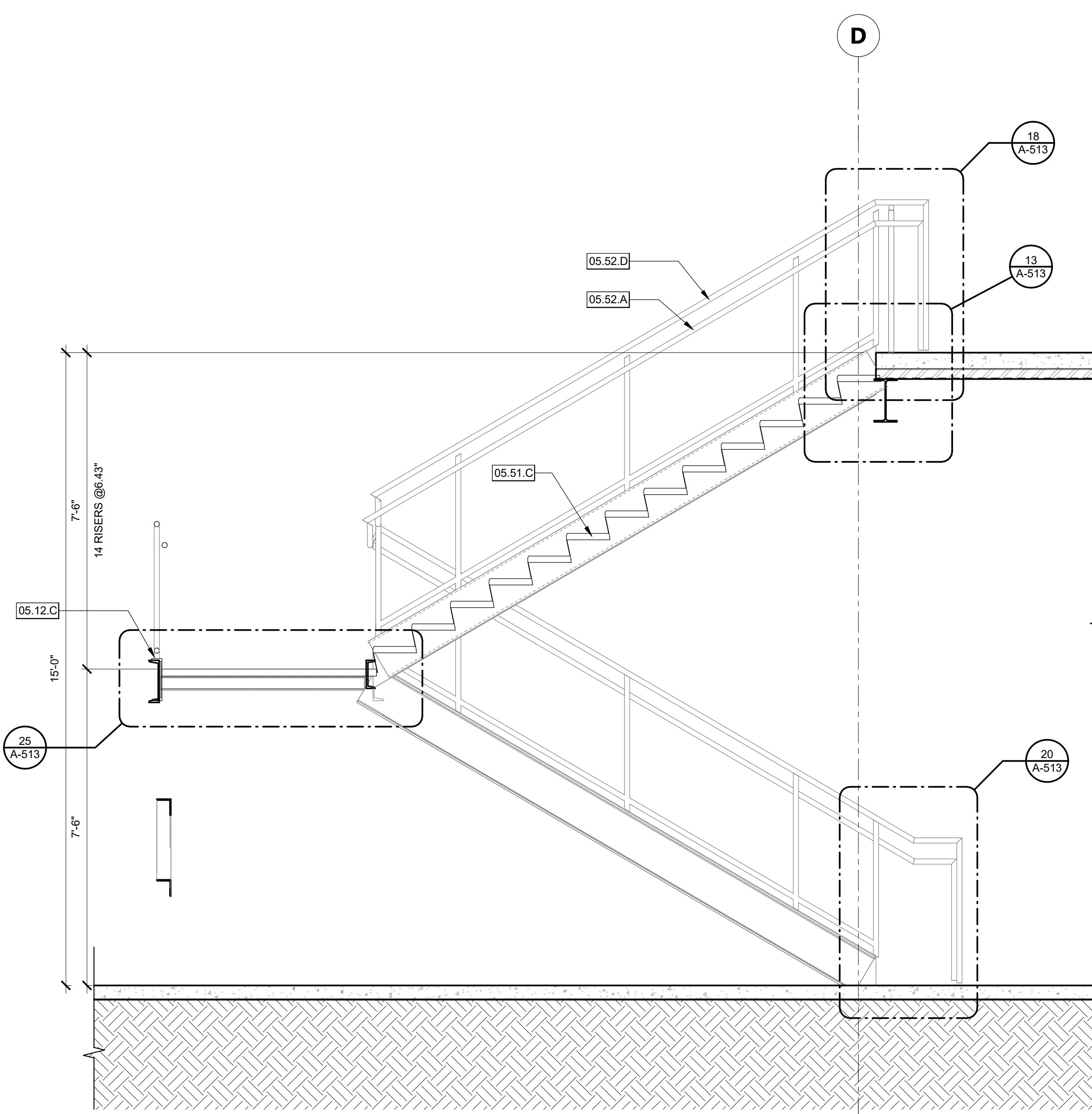
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SAN LUIS OBISPO
1 Grand Avenue
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CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407
SHEET TITLE
ELEVATOR & STAIR DETAILS
DRAWN BY: PA & MB JOB NUMBER: 21179.01
SHEET NO.
A-513
DATE: MARCH 31, 2023

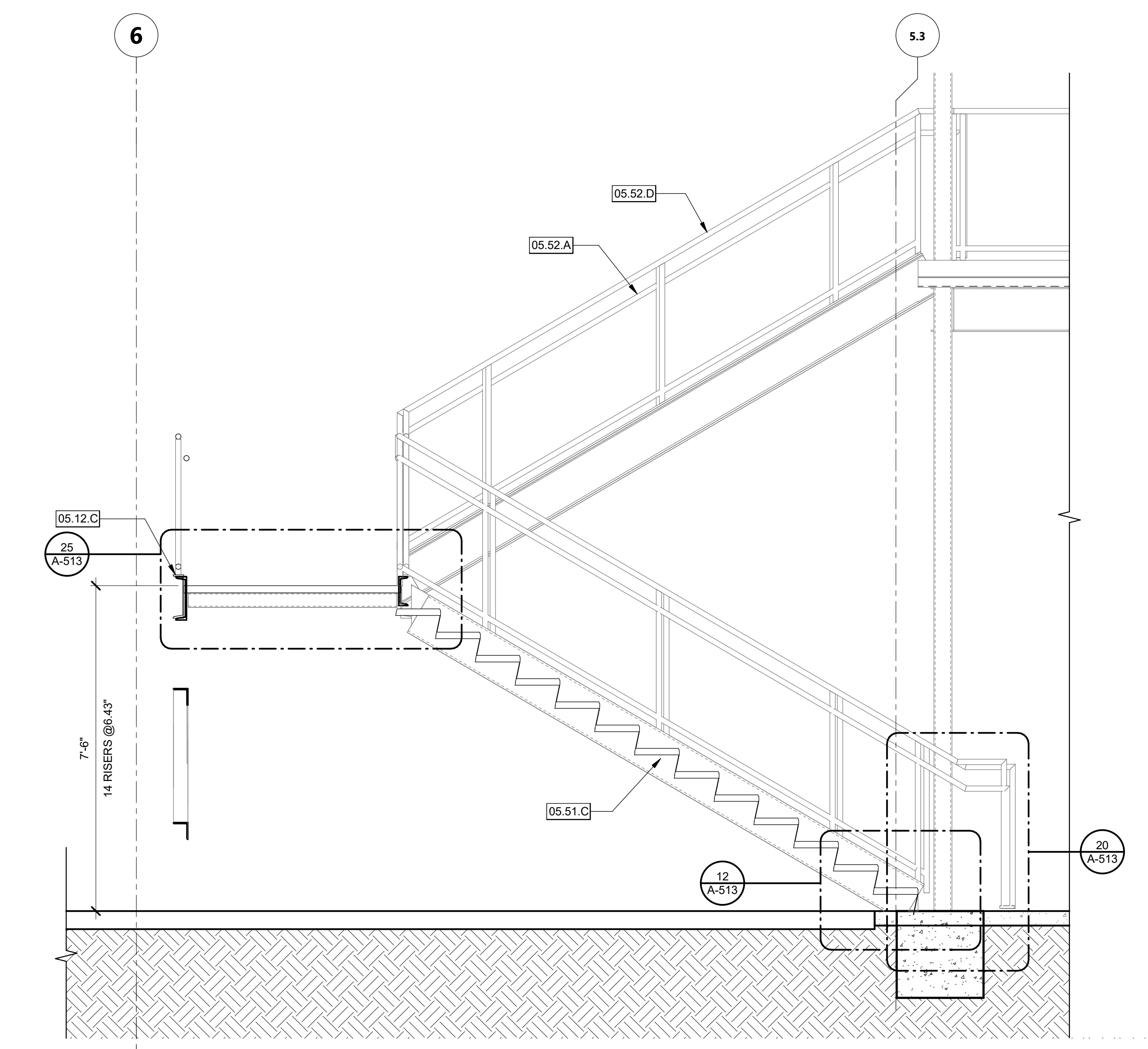
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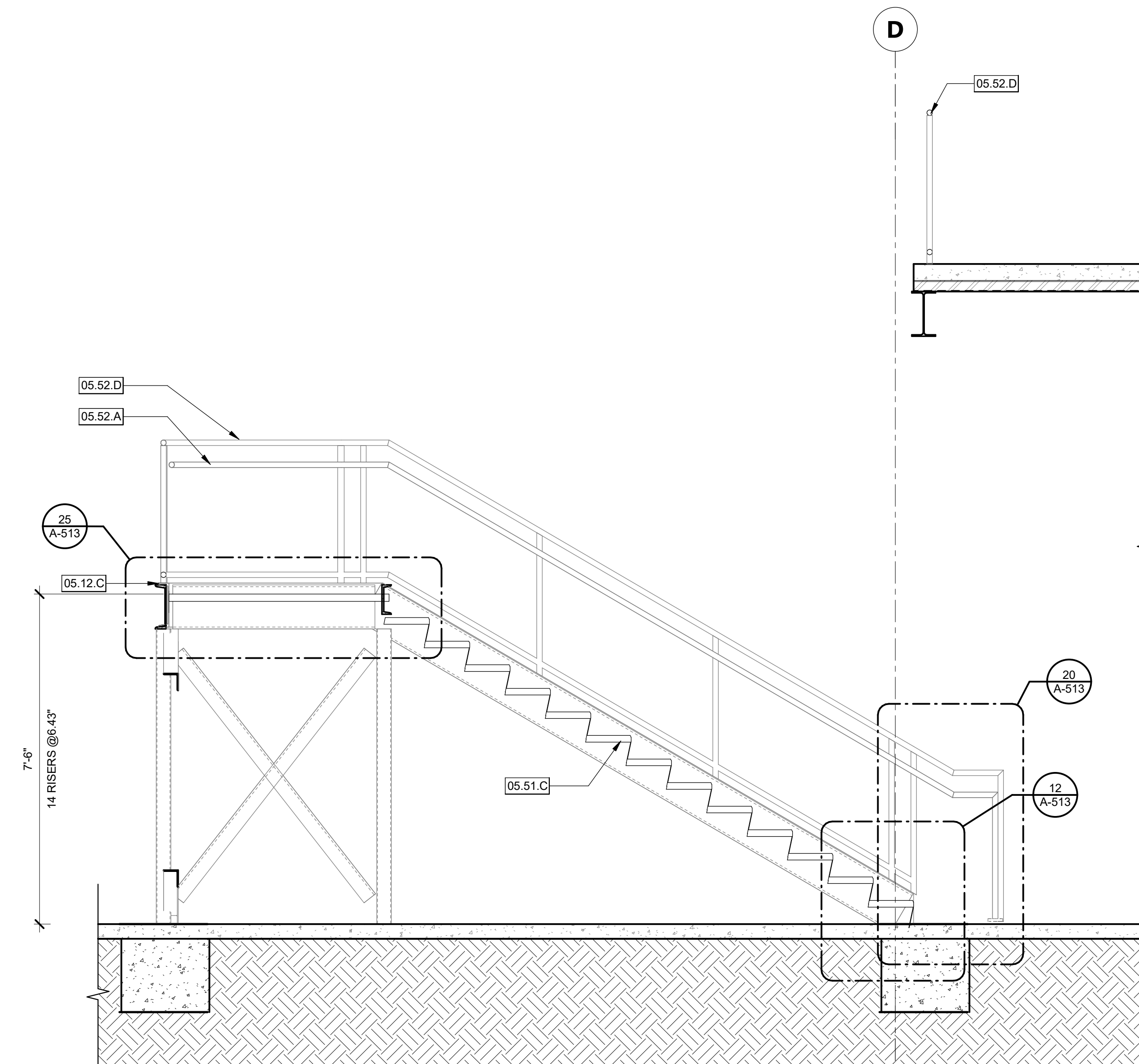
STAIR SECTION - EAST F-E 1/2" = 1'-0" 3



STAIR SECTION - TREADS 1-14 1/2" = 1'-0" 1



STAIR SECTION - EAST FF 1/2" = 1'-0" 4



STAIR SECTION - NORTH 1-2 1/2" = 1'-0" 2

KEYNOTES

- 05.12.C STEEL CHANNEL PAINTED, PER STRUCTURAL
- 05.51.C METAL STAIRCASE WITH CONCRETE FILLED STEEL PAN TREADS
- 05.52.A 1-1/2" DIA. SCH. 40 HANDRAIL
- 05.52.D 1 1/2" SQ. x 1/4" PAINTED METAL GUARDRAIL

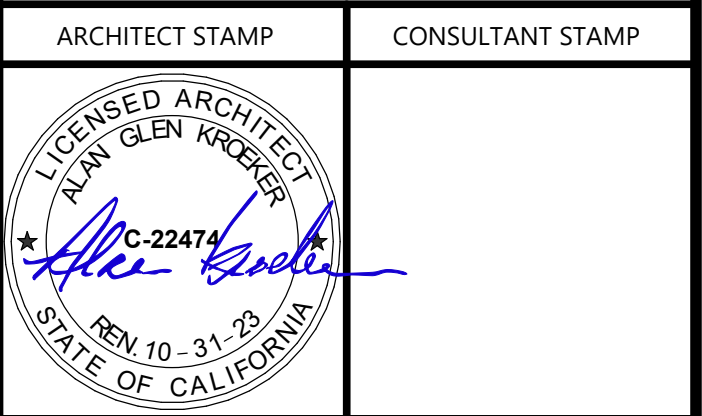
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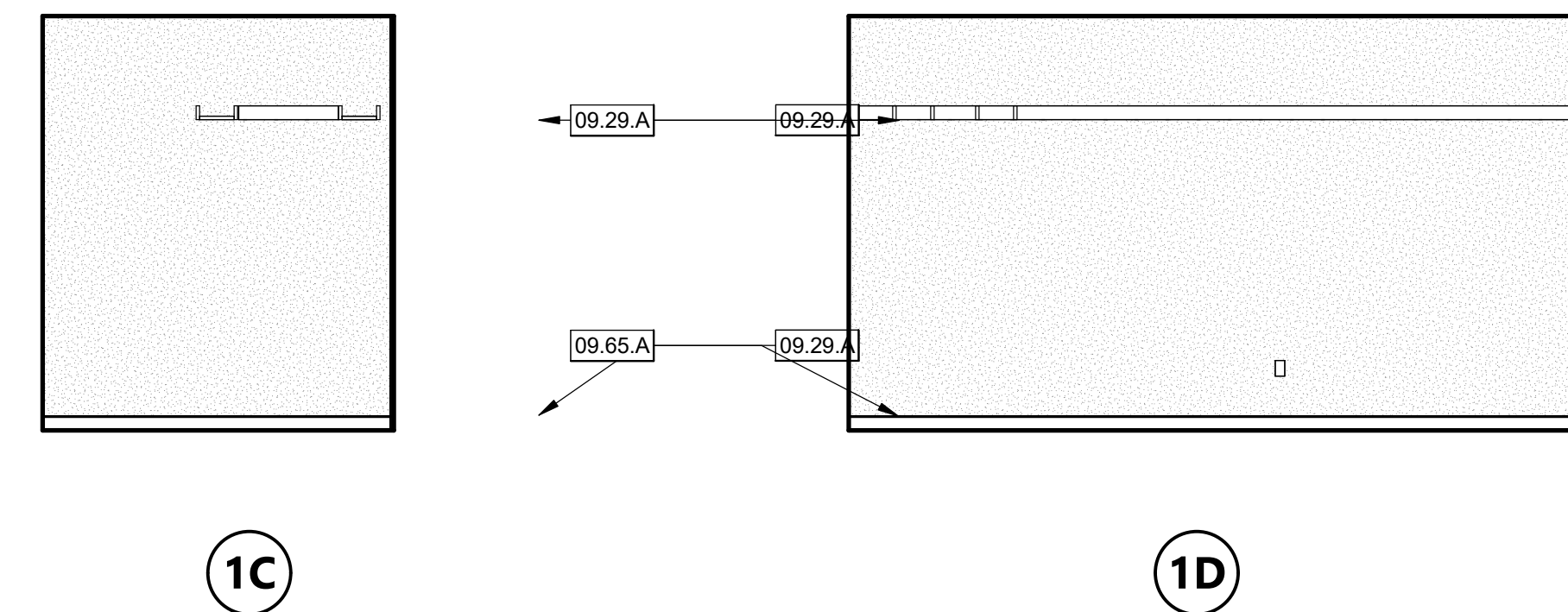
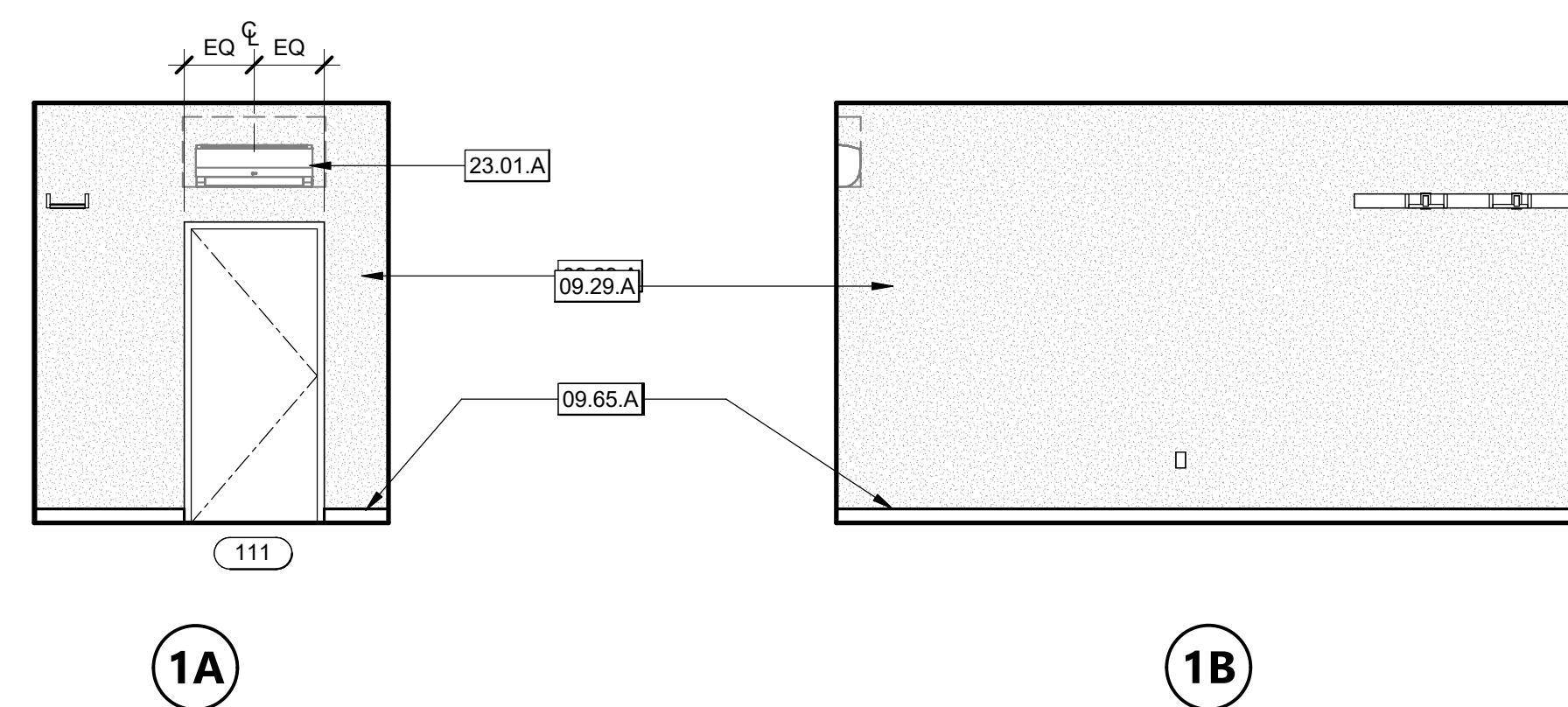
SHEET TITLE
STAIR SECTIONS

DRAWN BY: PA & MB JOB NUMBER: 21179.01
SHEET NO.

A-514
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

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KEYNOTES
 08.33.B TWO (2) ROLL UP DOORS, PER FLOOR PLAN
 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED
 09.65.A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
 10.44.A FIRE EXTINGUISHER WITH RECESSED FIRE EXTINGUISHER CABINET
 23.01.A MECHANICAL UNIT
 23.31.A MECHANICAL DUCT PER MECHANICAL DRAWINGS

AGENCY APPROVAL **CSU** 03-122884

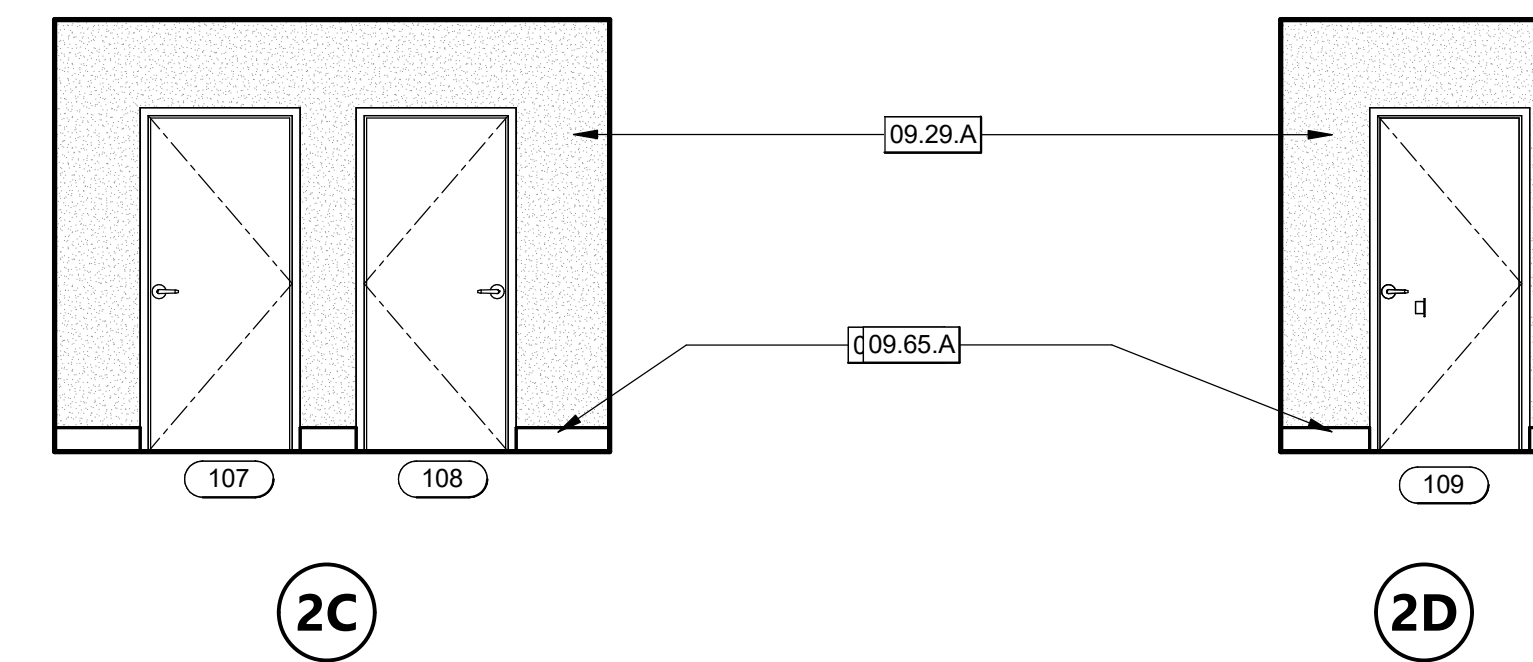
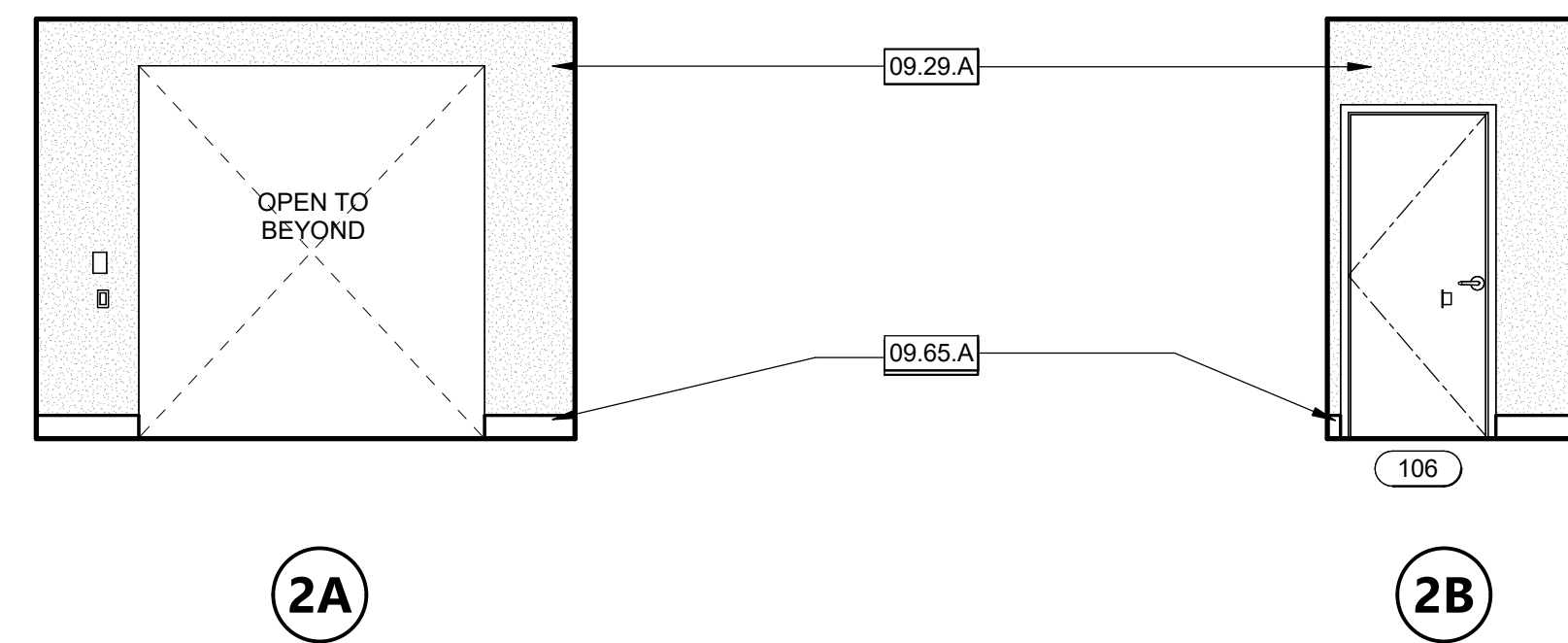
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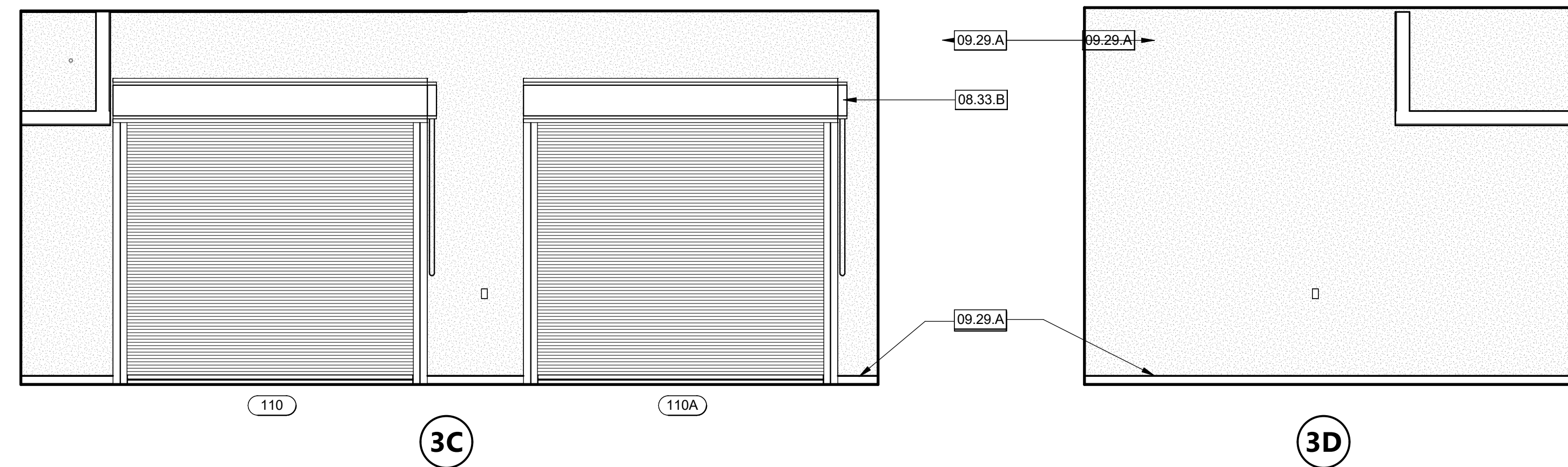
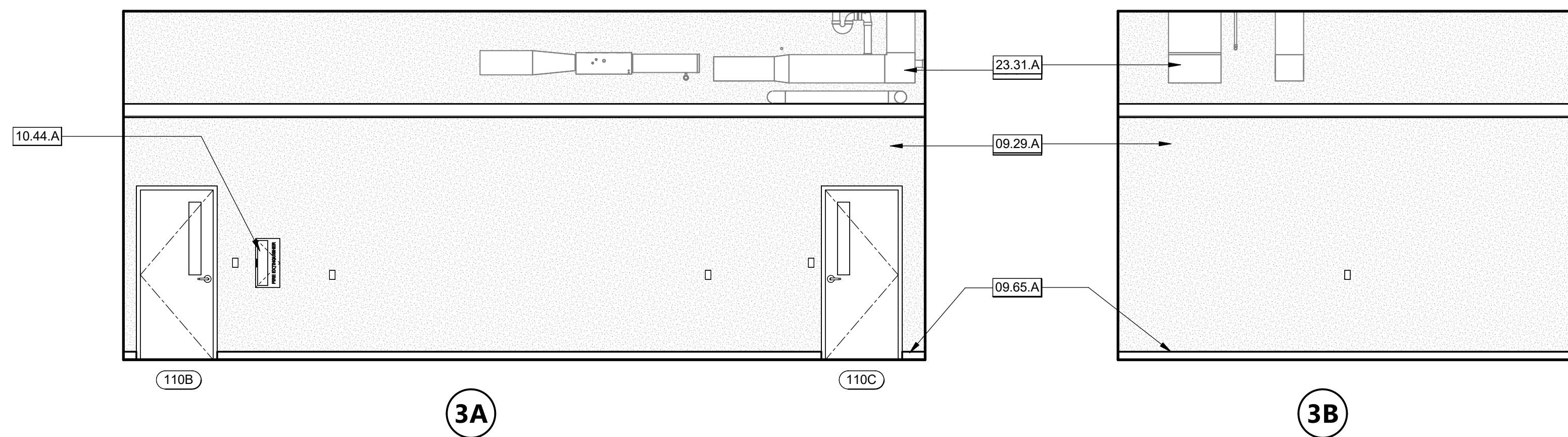
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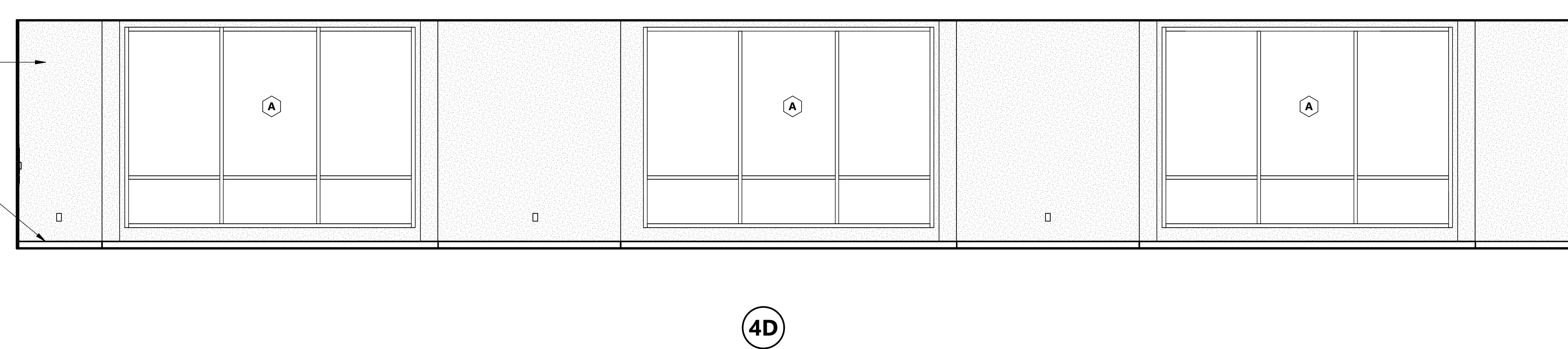
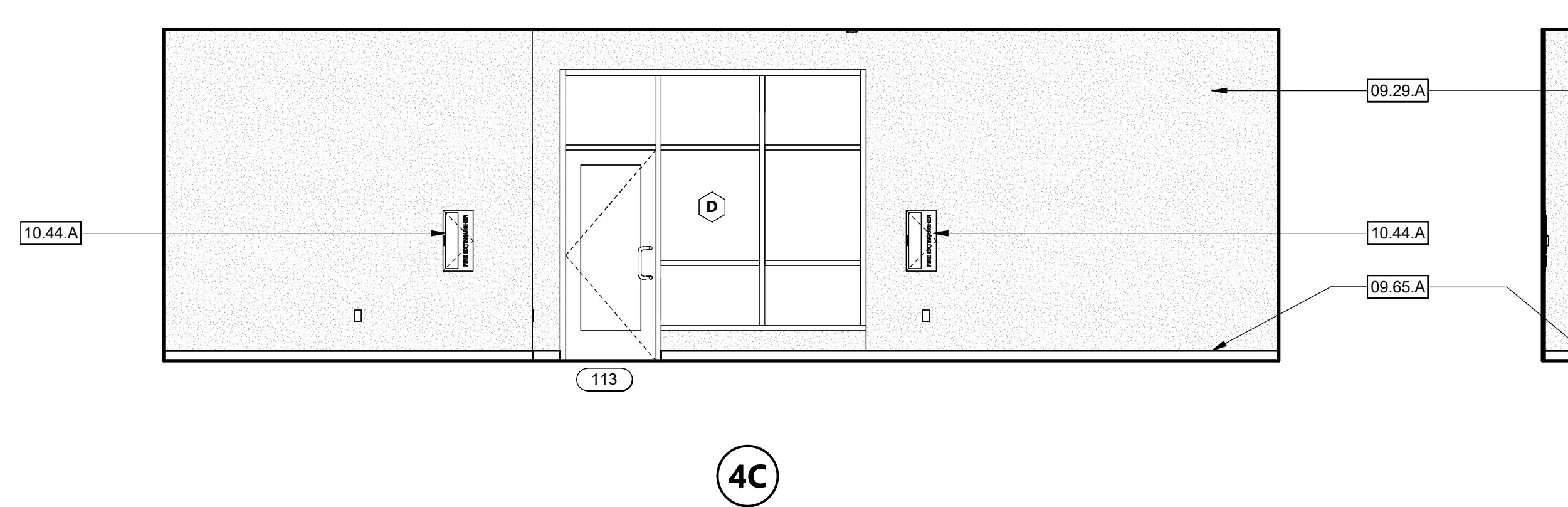
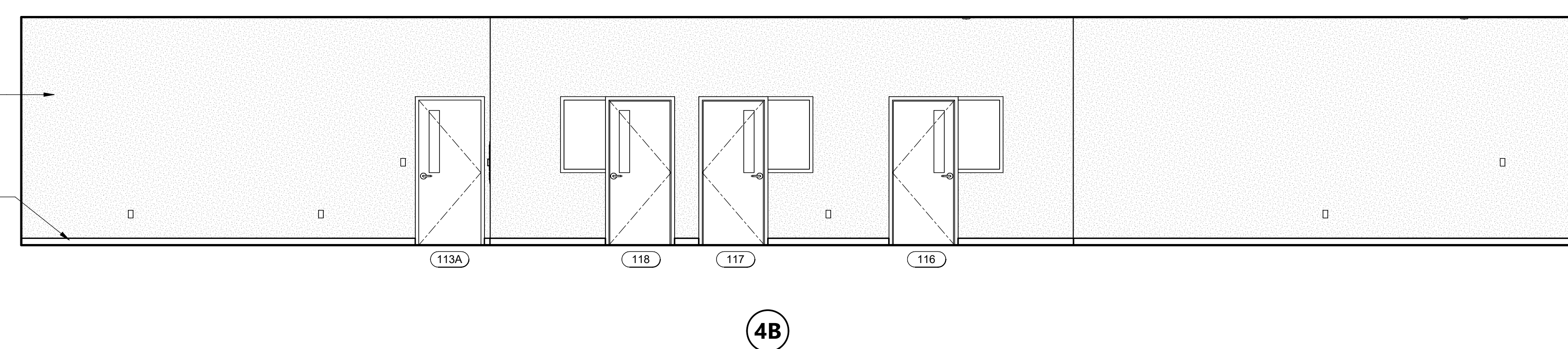
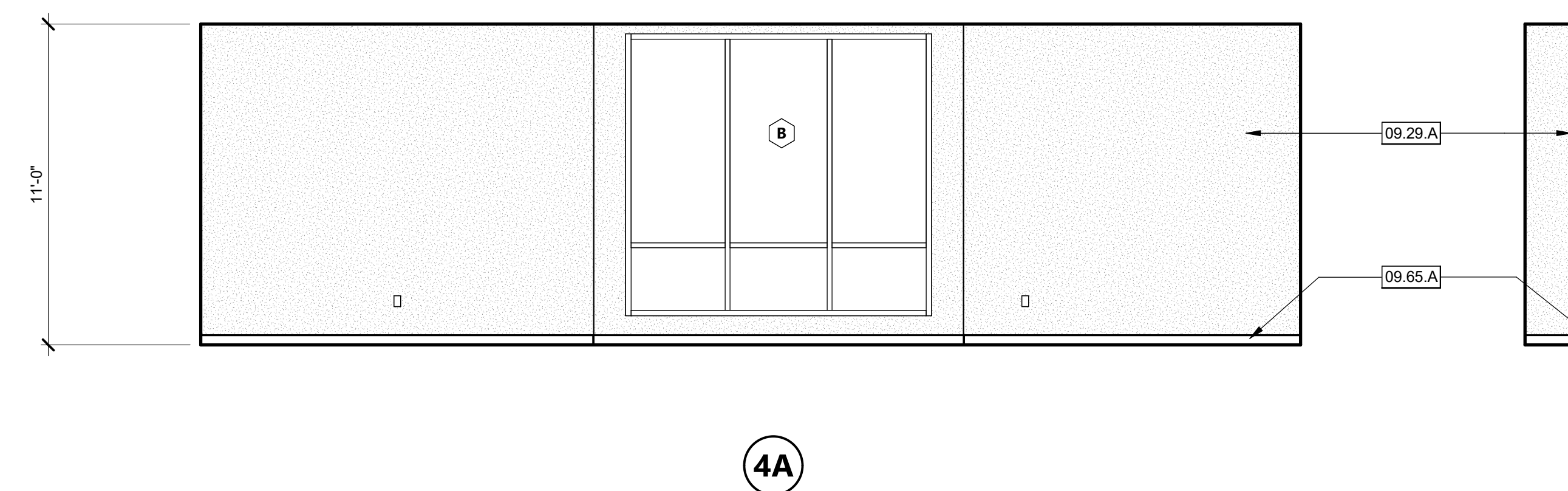
MAIN TELECOM - 111 1/4" = 1'-0" **1**



VESTIBULE - 105 1/4" = 1'-0" **2**



TENANT SPACE - 110 1/4" = 1'-0" **3**



PROGRAM SUPPORT - 113 1/4" = 1'-0" **4**

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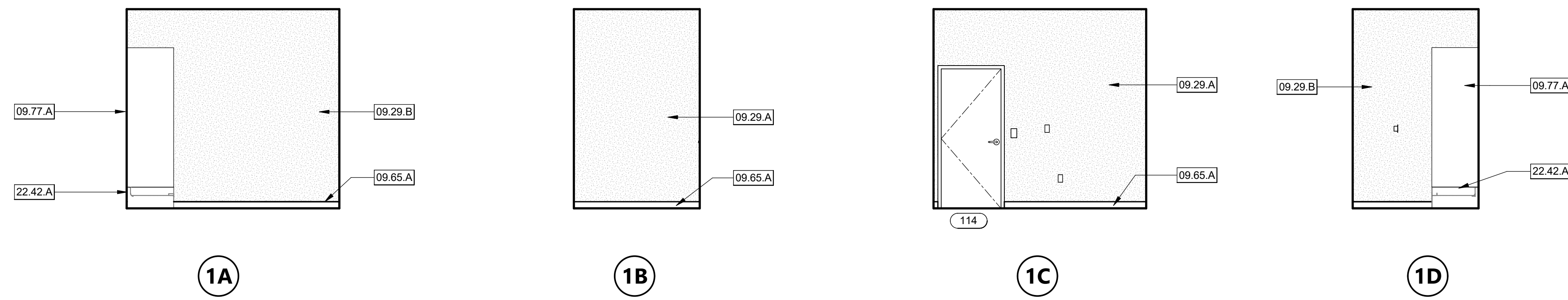
SHEET TITLE
INTERIOR ELEVATIONS

DRAWN BY: XX JOB NUMBER: 21179.01
 SHEET NO.

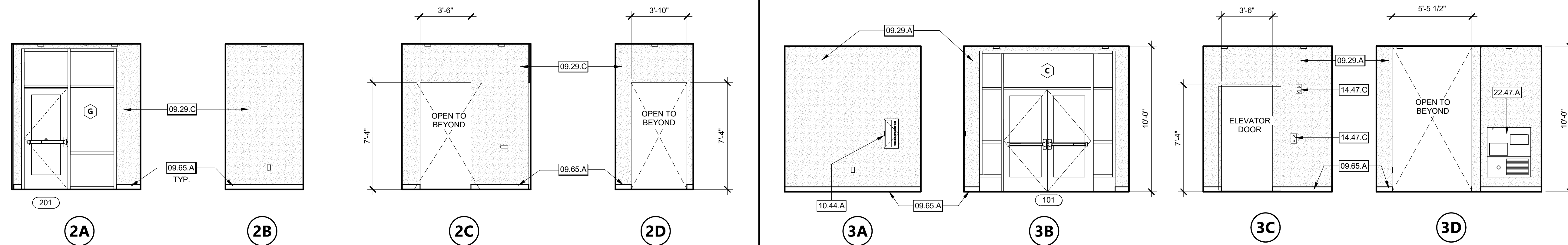
A-601
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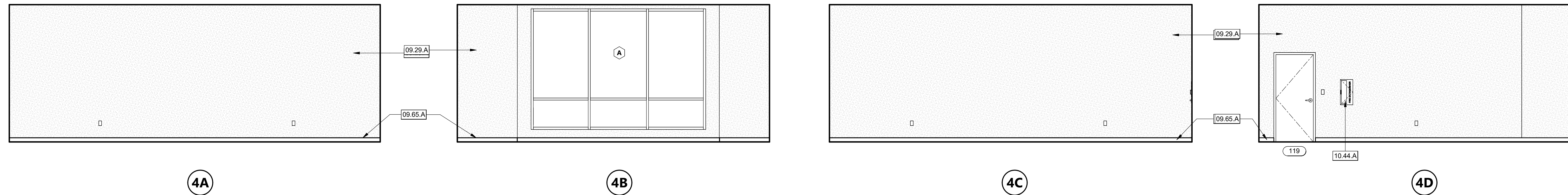


CUSTODIAN - 114 1/4" = 1'-0" **1**

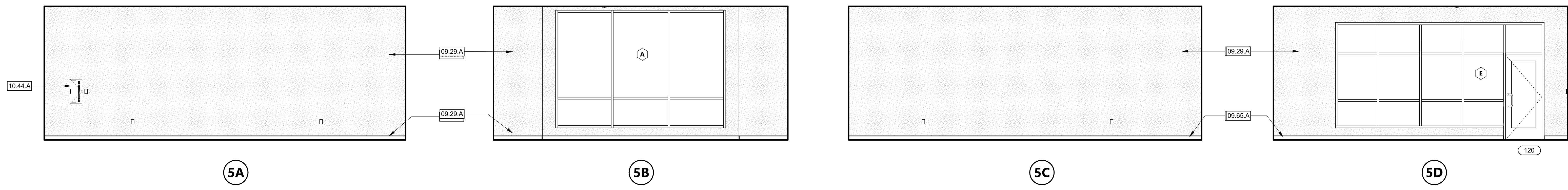


LOBBY - 201 1/4" = 1'-0" **2**

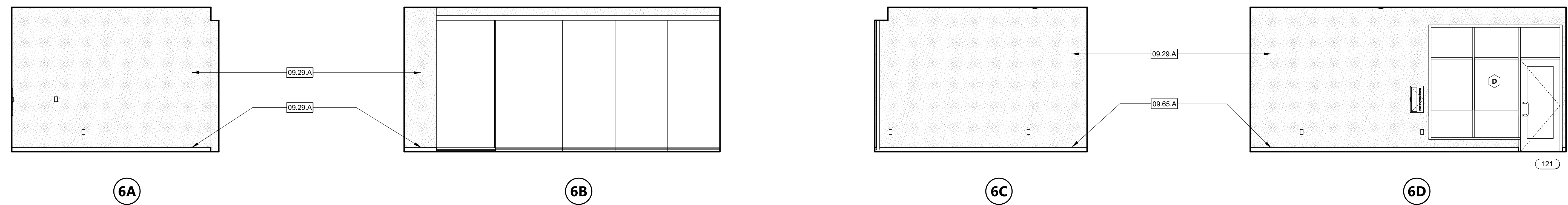
LOBBY - 101 1/4" = 1'-0" **3**



STUDIO - 119 1/4" = 1'-0" **4**



FLEXIBLE CLASSROOM - 120 1/4" = 1'-0" **5**



CONFERENCE - 121 1/4" = 1'-0" **6**

- KEYNOTES**
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED
 - 09.29.B 5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED
 - 09.29.C 5/8" TYPE 'X' HIGH IMPACT RESISTANT GYPSUM BOARD, PAINTED. INSTALL TO A HEIGHT OF 8'-0" A.F.F.
 - 09.65.A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
 - 09.77.A FIBER REINFORCED PLASTIC PANELS
 - 10.44.A FIRE EXTINGUISHER WITH RECESSED FIRE EXTINGUISHER CABINET
 - 14.47.C ELEVATOR DEVICE PER ELEVATOR DETAILS ON SHEET A-513
 - 22.42.A MOP SINK - PER PLUMBING DETAILS
 - 22.47.A HI-LOW DRINKING FOUNTAIN

AGENCY APPROVAL **CSU** 03-122884

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CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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ARCHITECT STAMP

CONSULTANT STAMP

Alfonso Strubel
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REV 10-31-23
STATE OF CALIFORNIA

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SHEET TITLE

INTERIOR ELEVATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

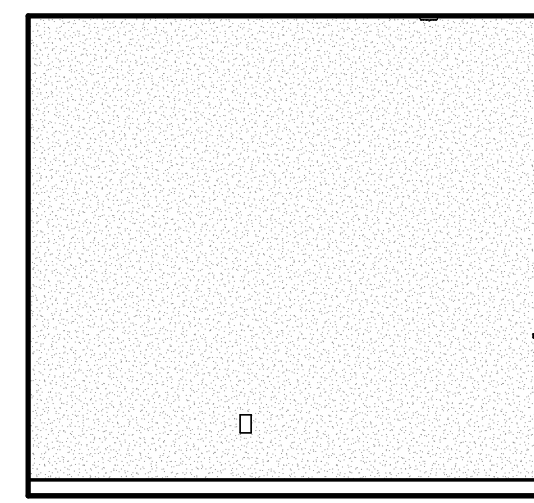
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A-602

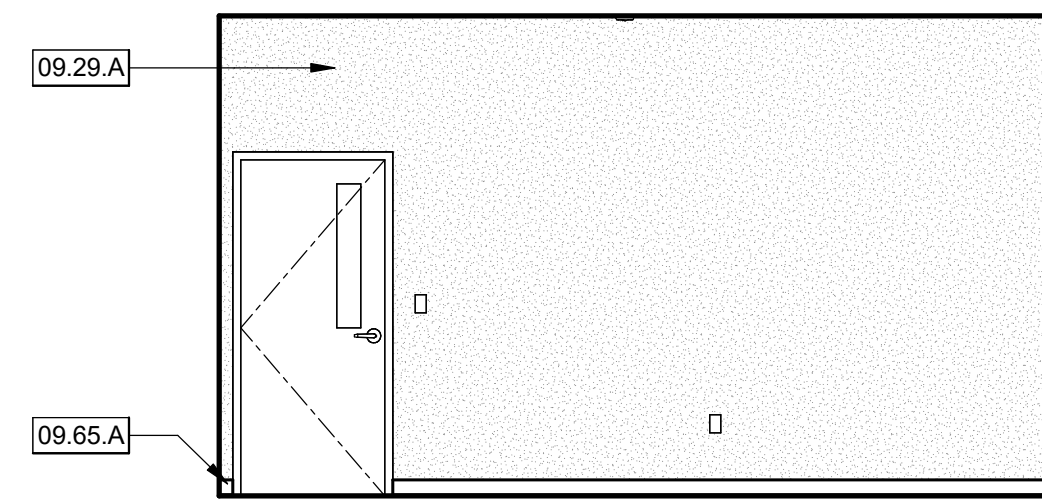
DATE: MARCH 31, 2023

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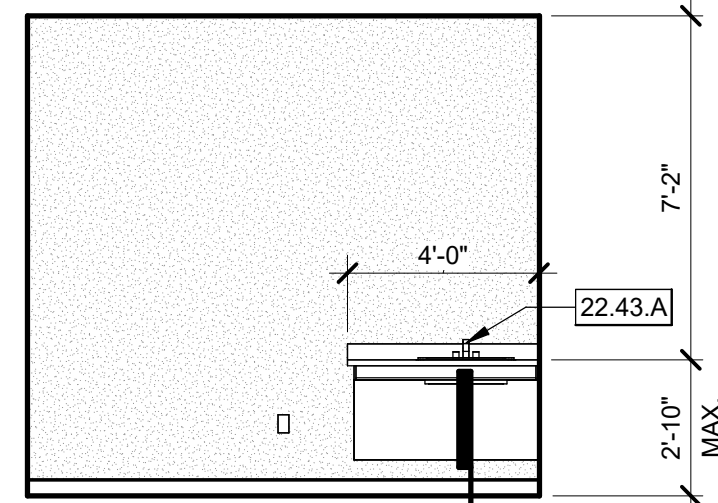
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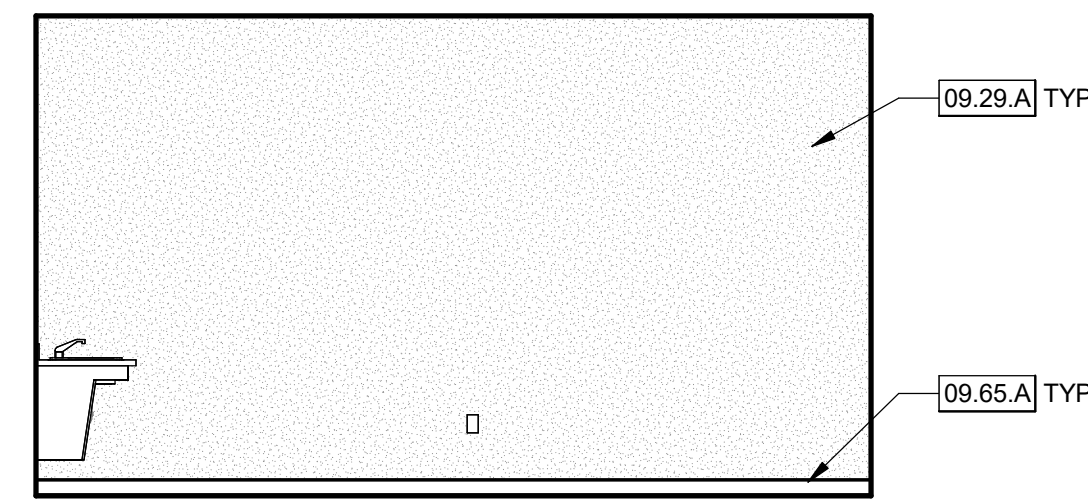
1A



1B



1C



1D

KEYNOTES

- 08.43.A FOLDING WALL AND POCKET
- 09.29.A 5/8" TYPE 'X' GYPSUM BOARD, PAINTED WHERE EXPOSED
- 09.65.A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
- 11.40.A REFRIGERATOR
- 22.43.A ACCESSIBLE WALL MOUNTED SINK

AGENCY APPROVAL DSAE 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
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Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

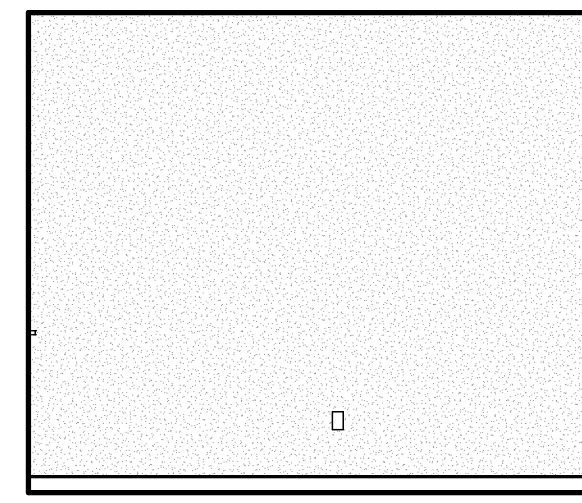
26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
TEL (661) 251-7401

19.6

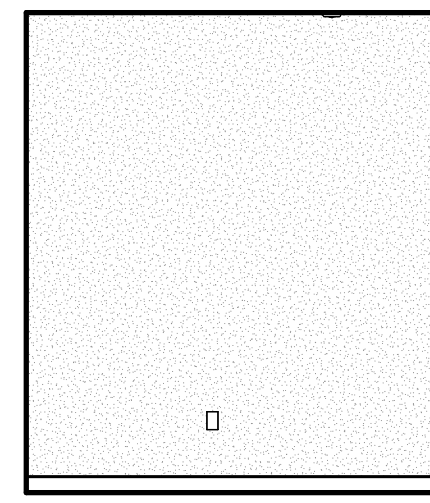
560 HIGUERA STREET, SUITE C
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DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR SUITE C
SAN LUIS OBISPO, CA 93401
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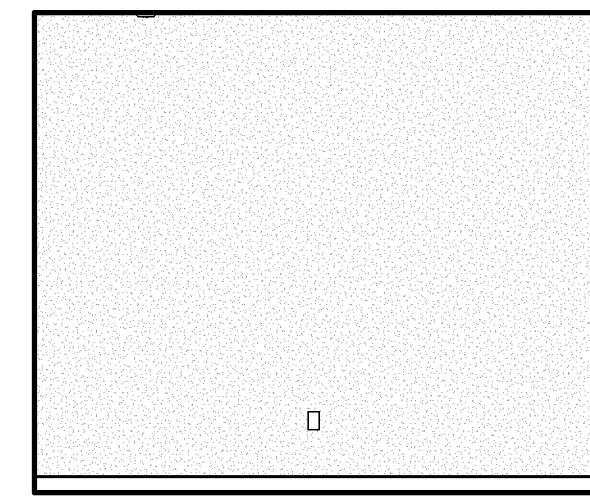
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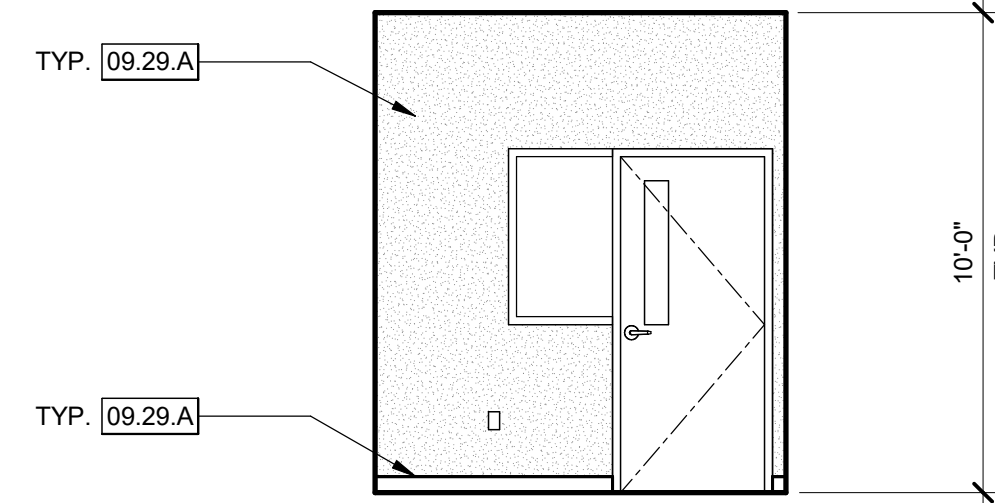
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2B

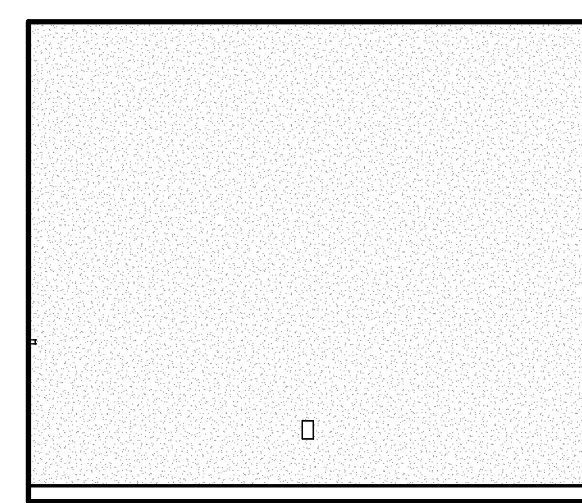


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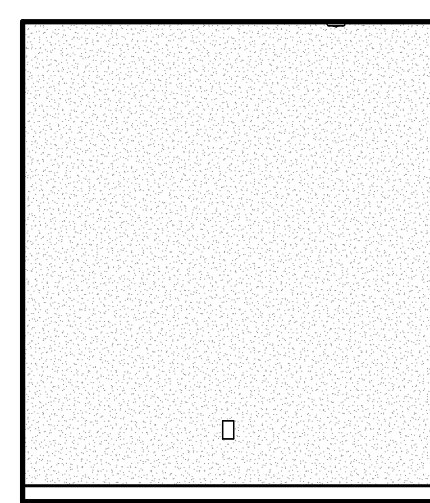


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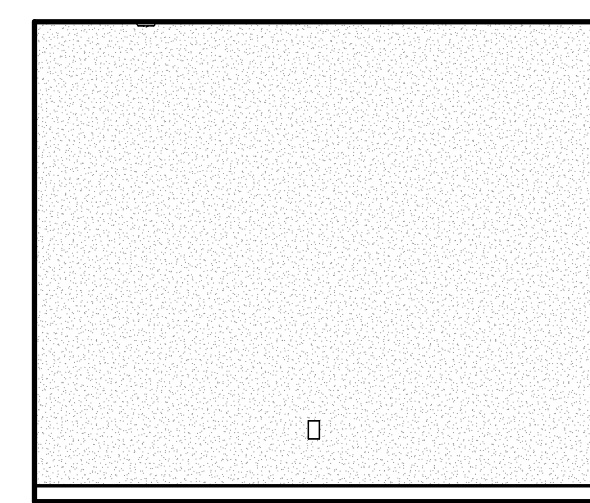
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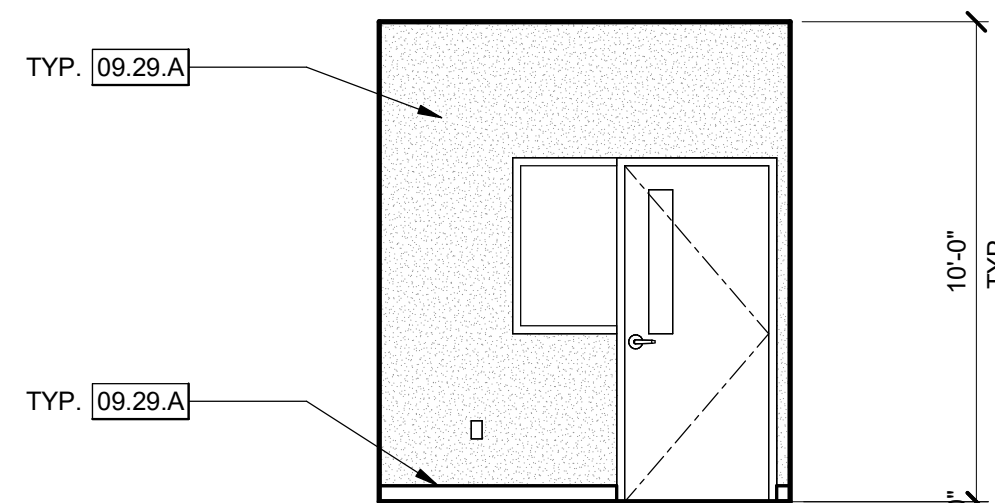
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3B

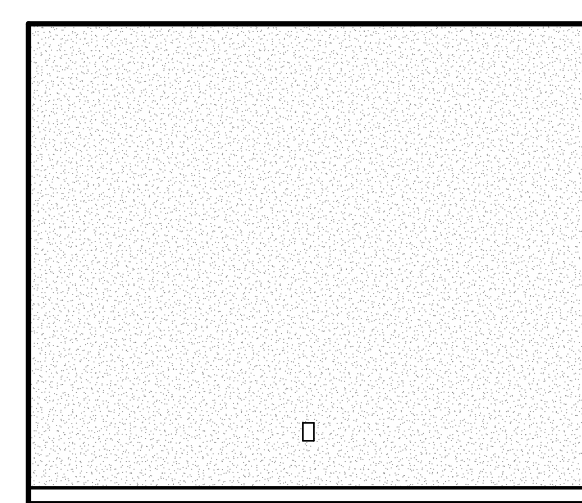


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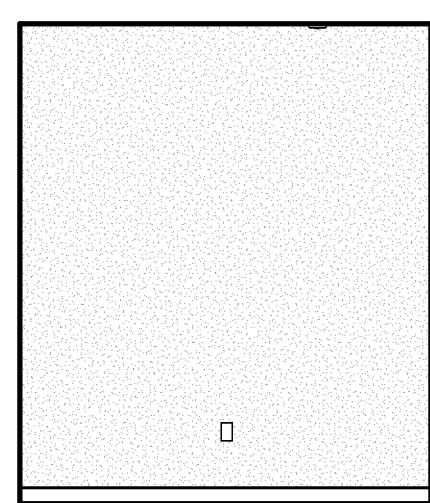


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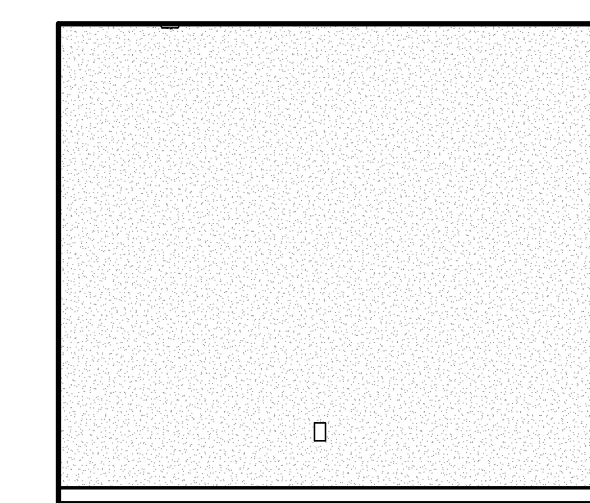
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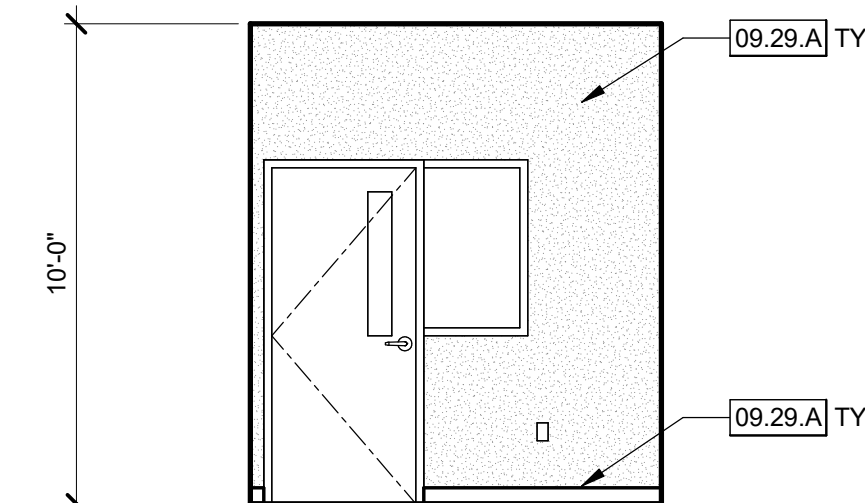
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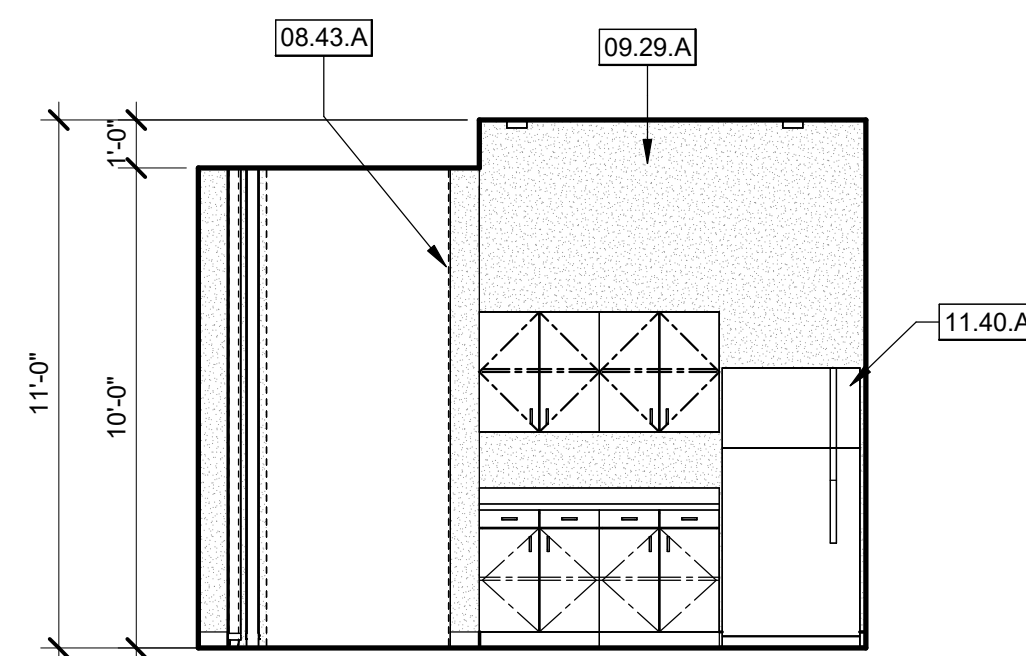


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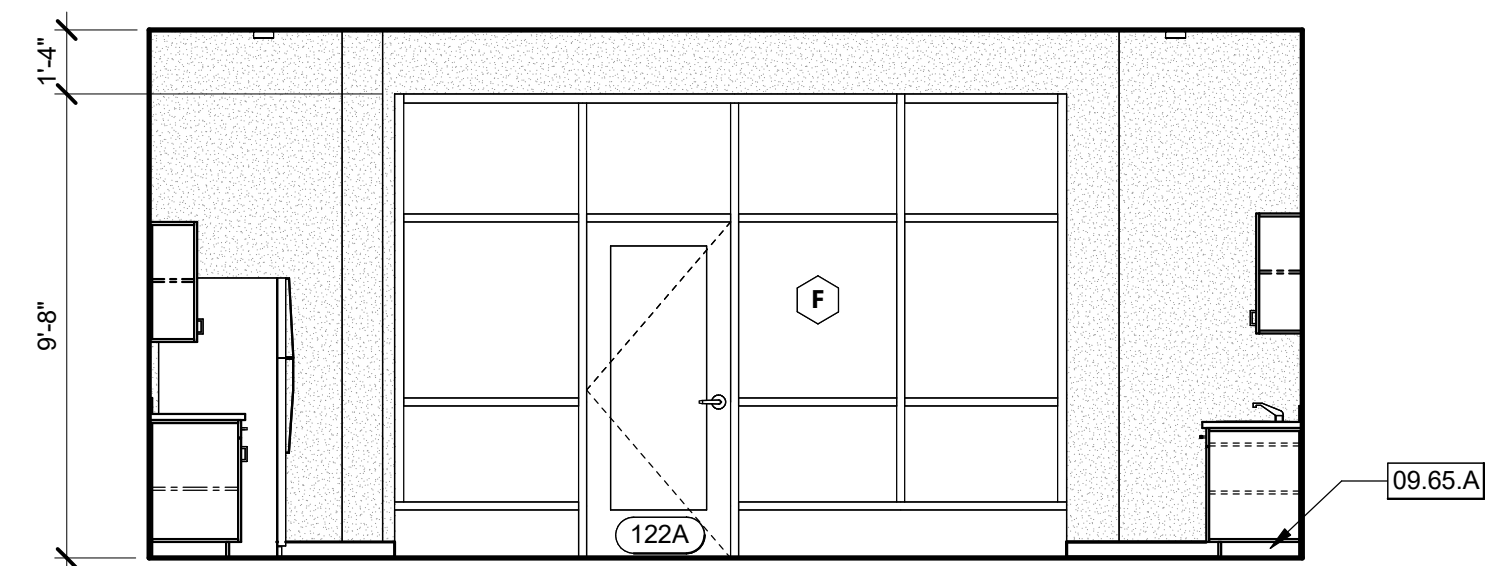


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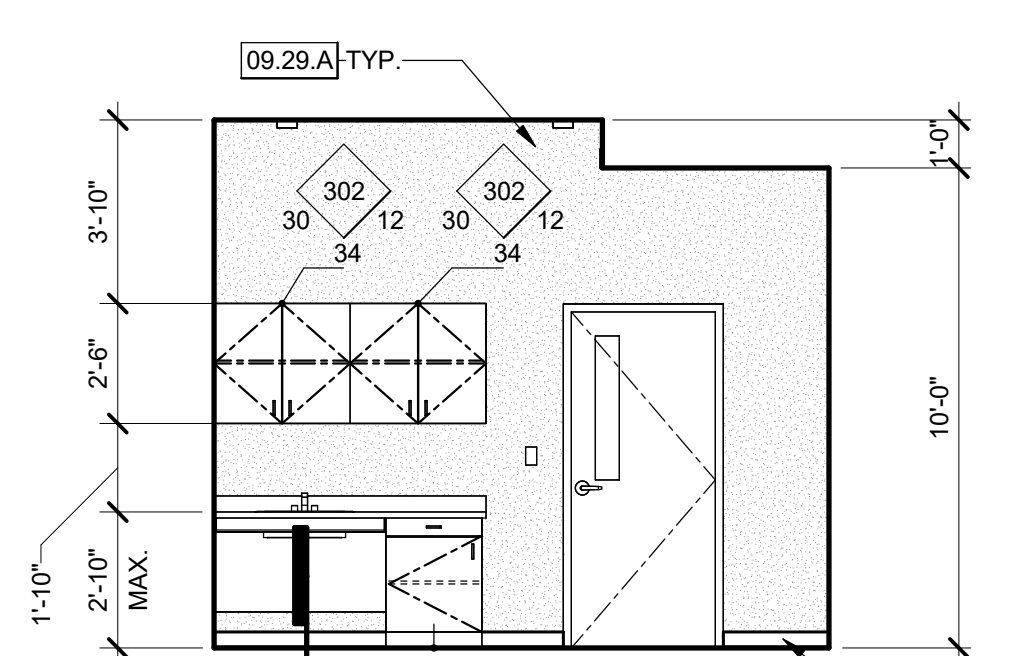
OFFICE - 118 1/4" = 1'-0" **4**



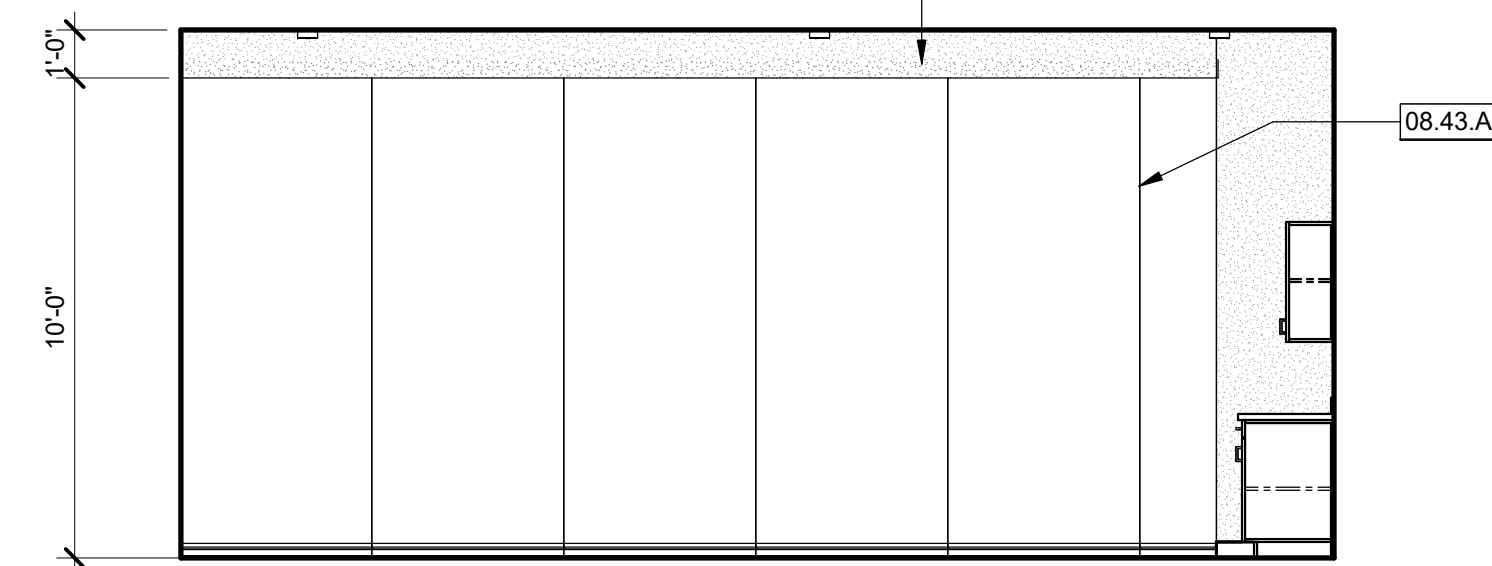
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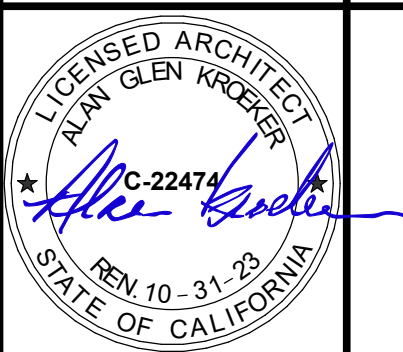
5C



5D

KITCHEN / BREAK - 122 1/4" = 1'-0" **5**

ARCHITECT STAMP CONSULTANT STAMP



NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

INTERIOR ELEVATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

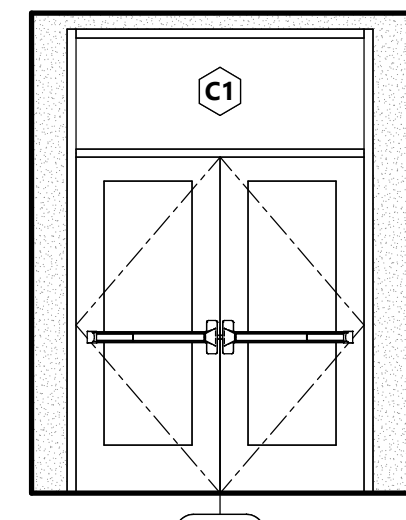
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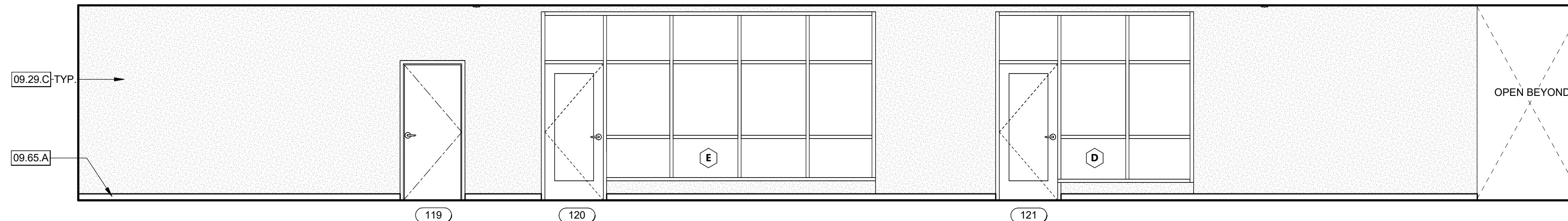
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CONSTRUCTION DOCUMENTS

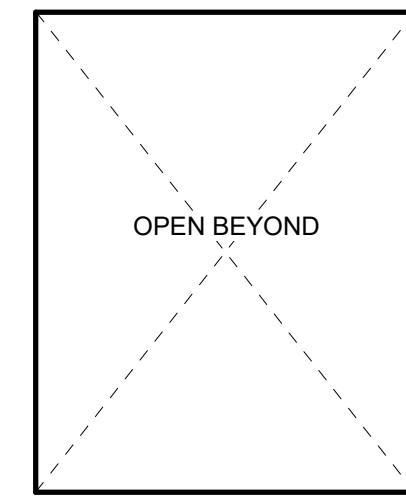
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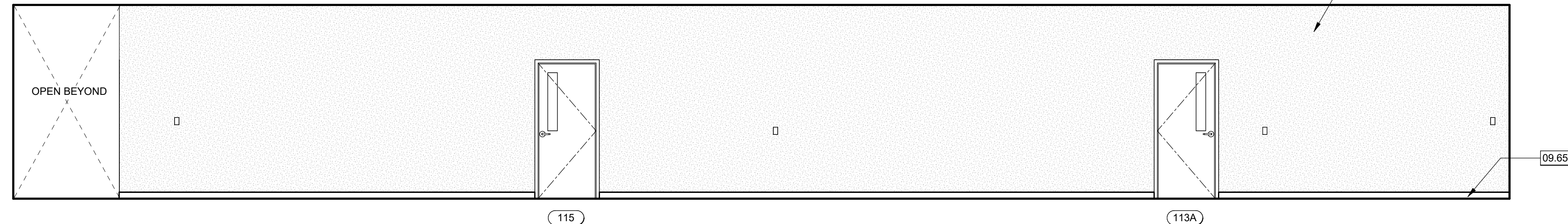
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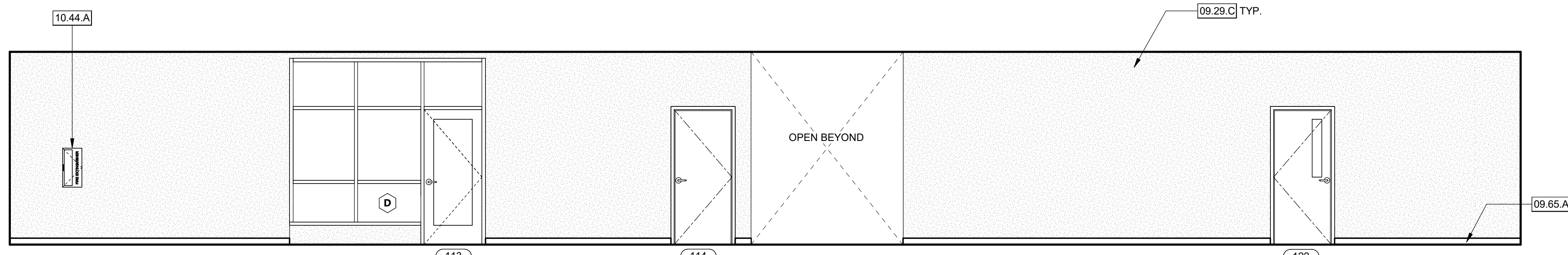


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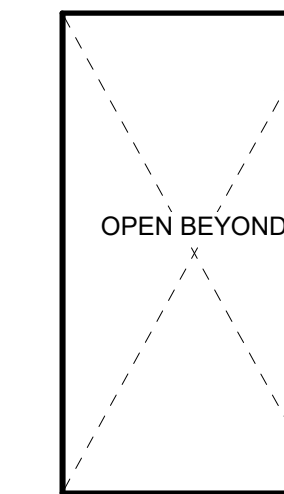


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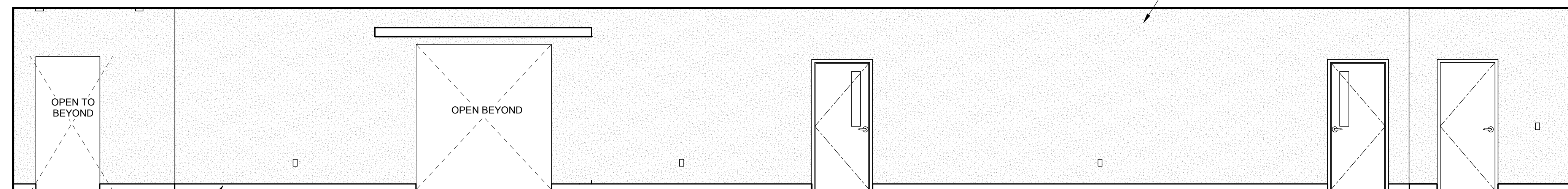
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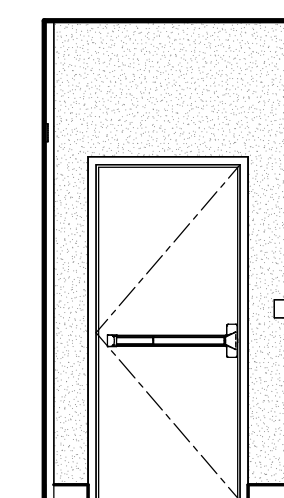
2A



2B



2C



2D

CORRIDOR - TRANSVERSE - 104 1/4" = 1'-0" 2

KEYNOTES

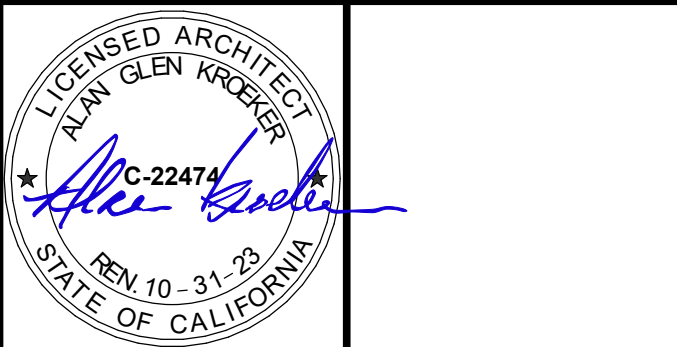
- 09.29.C 5/8" TYPE 'X' HIGH IMPACT RESISTANT GYPSUM BOARD, PAINTED. INSTALL TO A HEIGHT OF 8'-0" A.F.F.
- 09.65.A RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
- 10.44.A FIRE EXTINGUISHER WITH RECESSED FIRE EXTINGUISHER CABINET

AGENCY APPROVAL DSAE 03-122884



- CONSULTANTS
- CIVIL ENGINEER
DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI)
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SHEET TITLE
INTERIOR ELEVATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

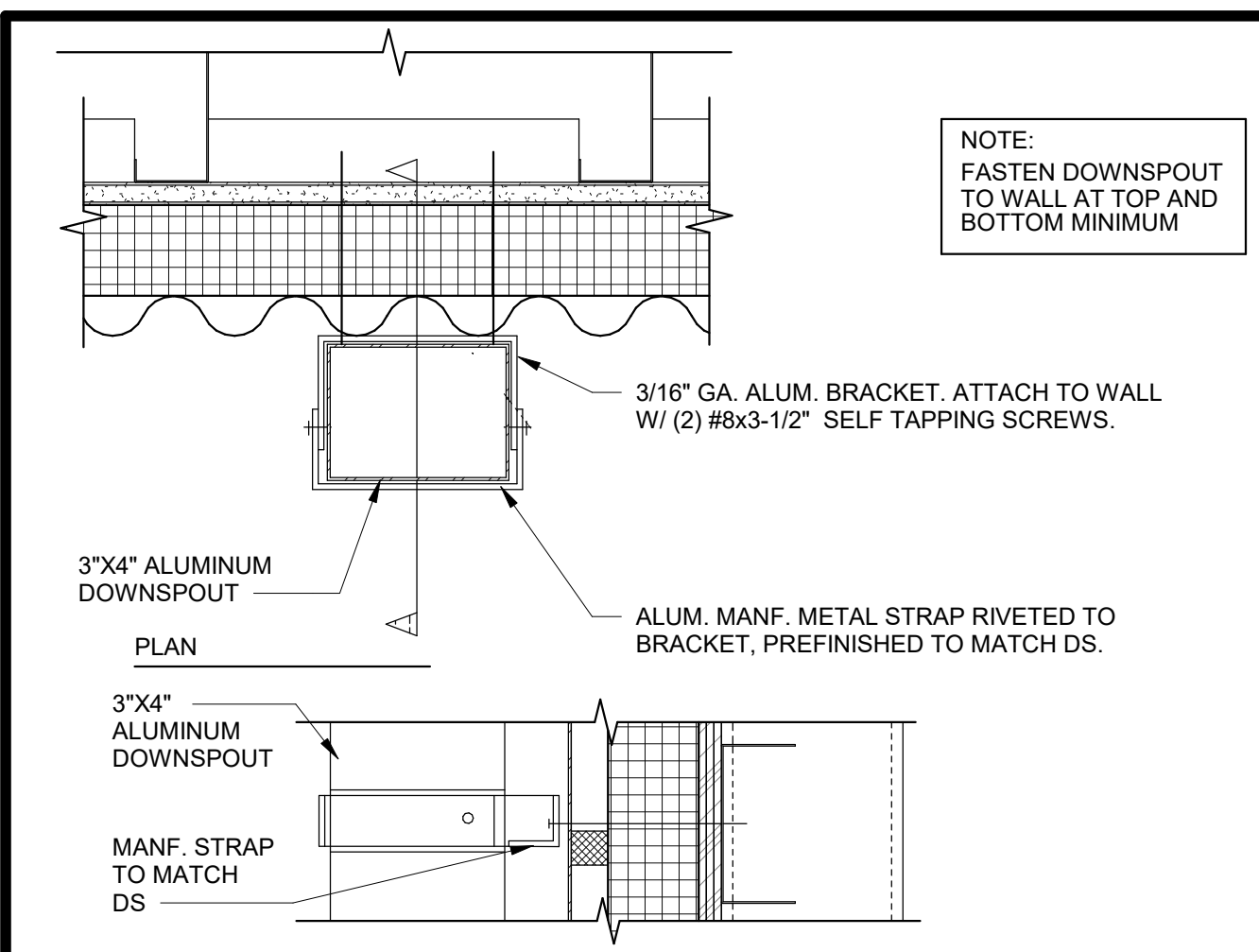
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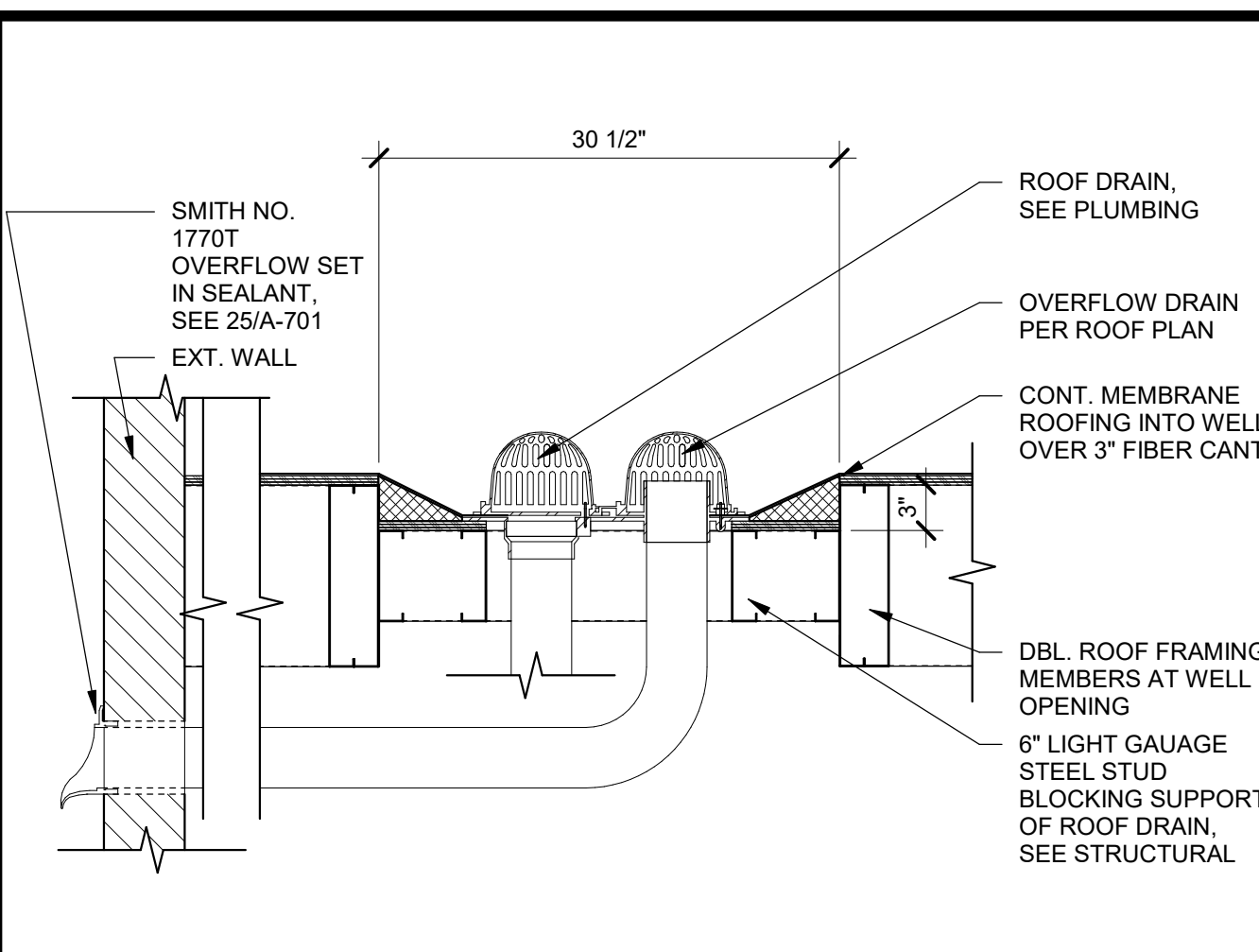
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

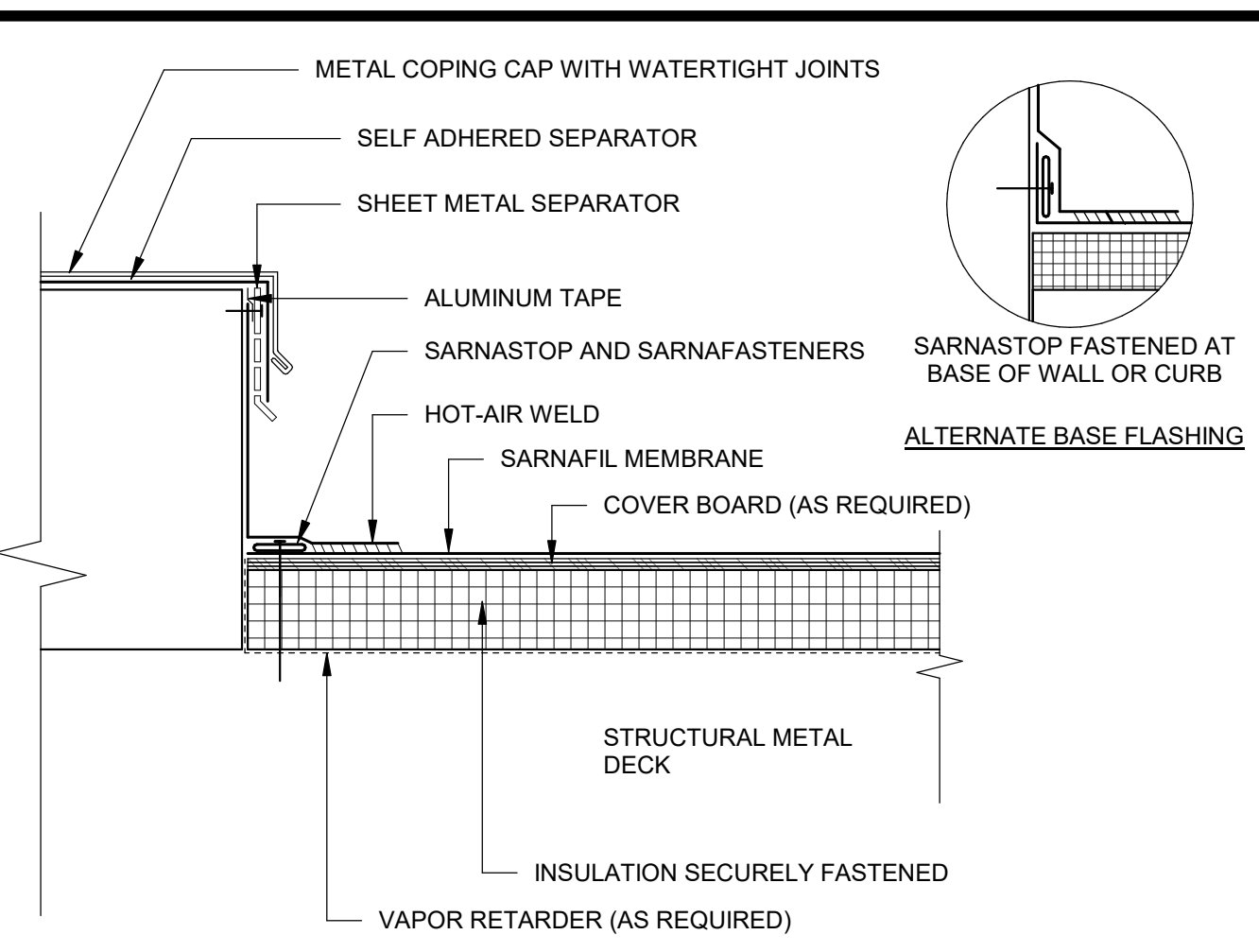
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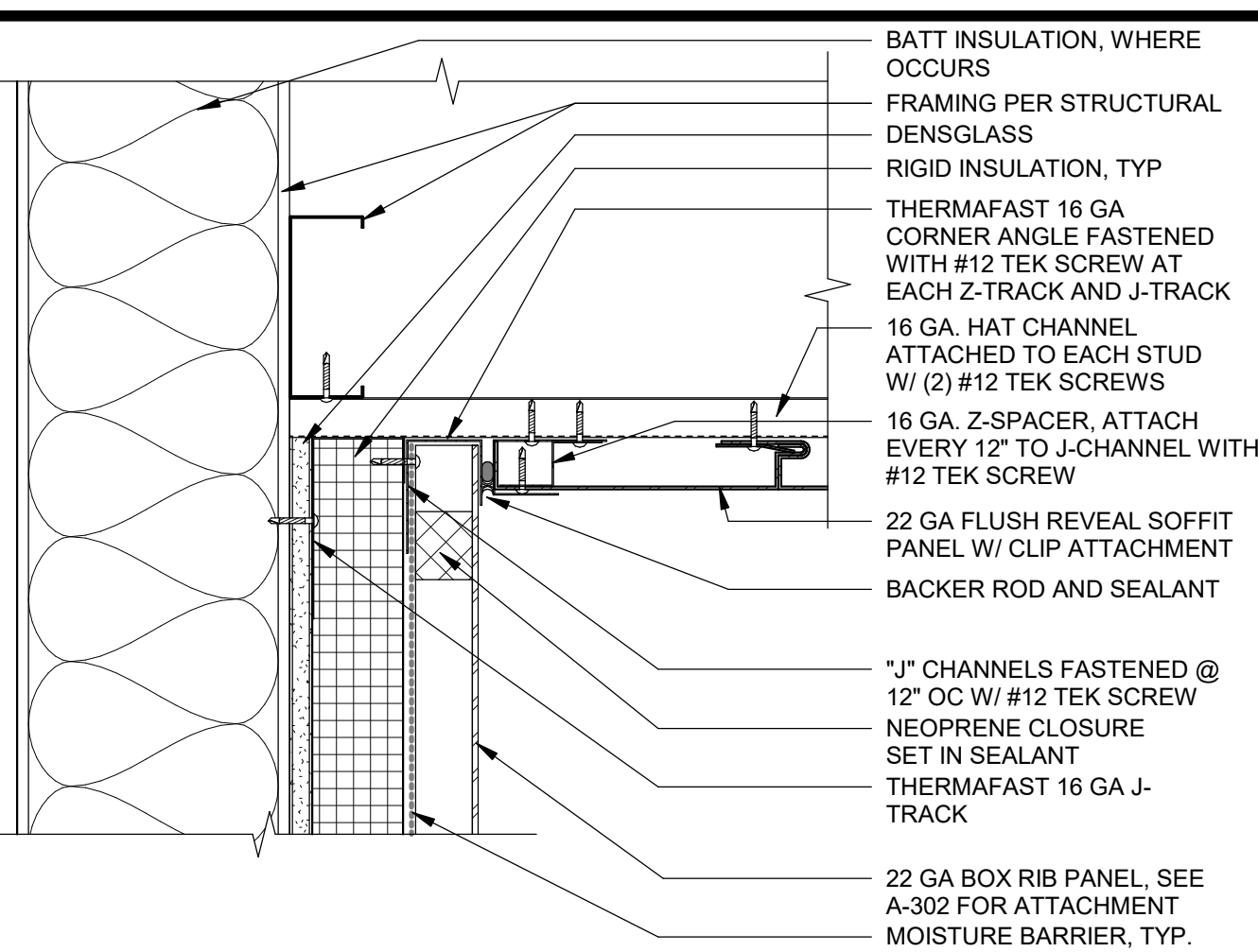
DOWNSPOUT 3" = 1'-0" 21



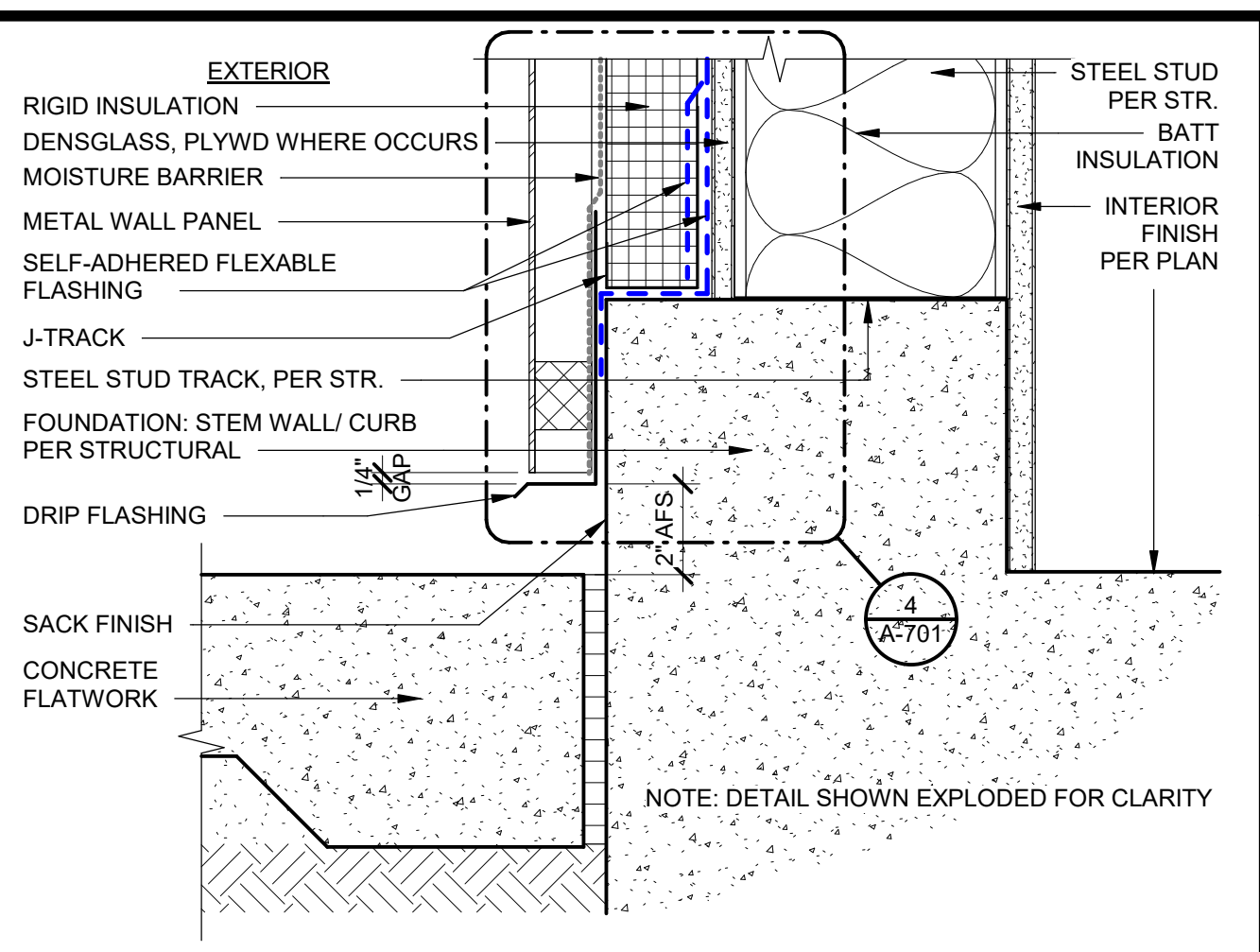
ROOF DRAIN 1" = 1'-0" 16



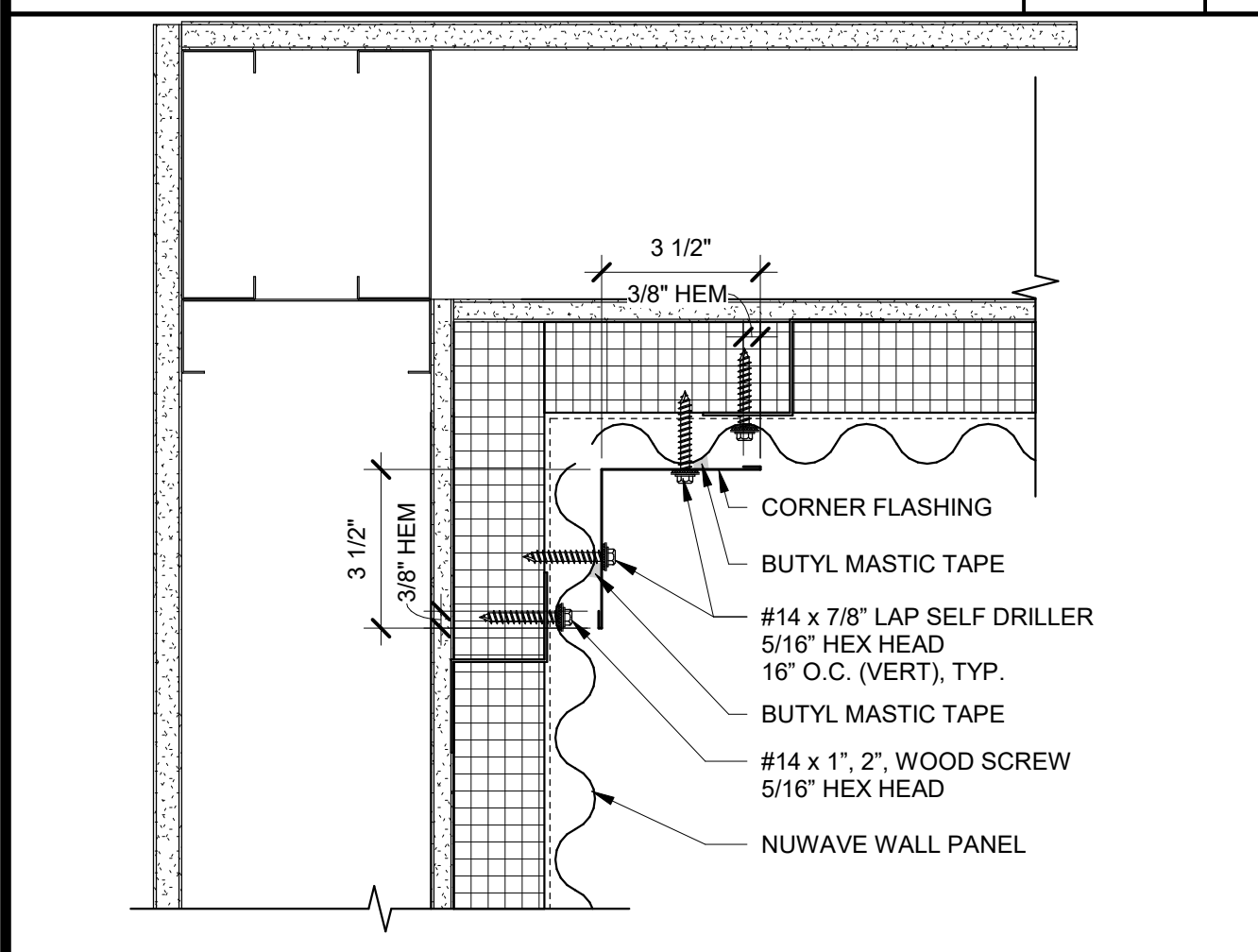
EQUIPMENT PAD FLASHING 3" = 1'-0" 11



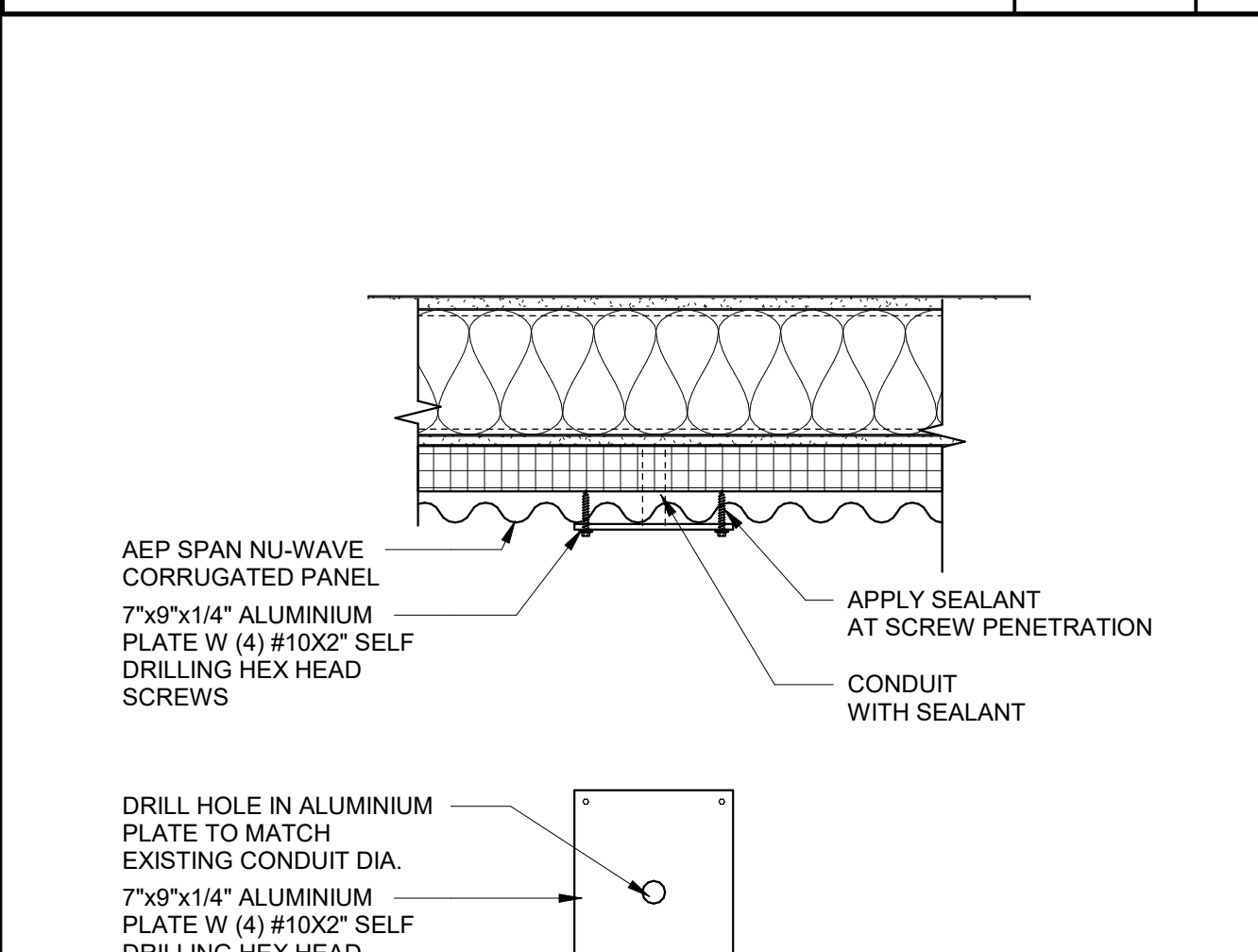
INSIDE CORNER FLASHING @ SOFFIT 3" = 1'-0" 6



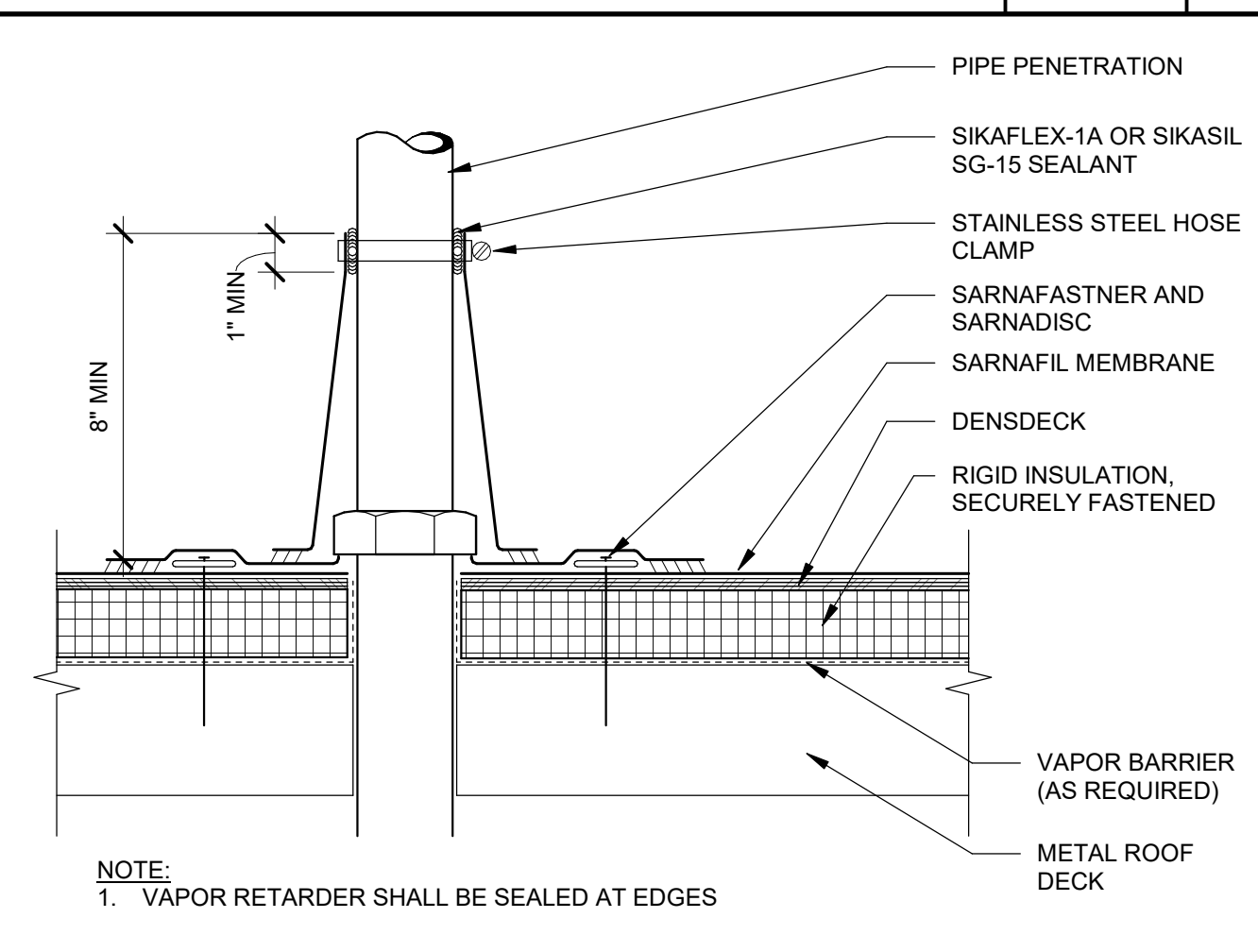
METAL WALL PANEL @ HARDSCAPE 3" = 1'-0" 1



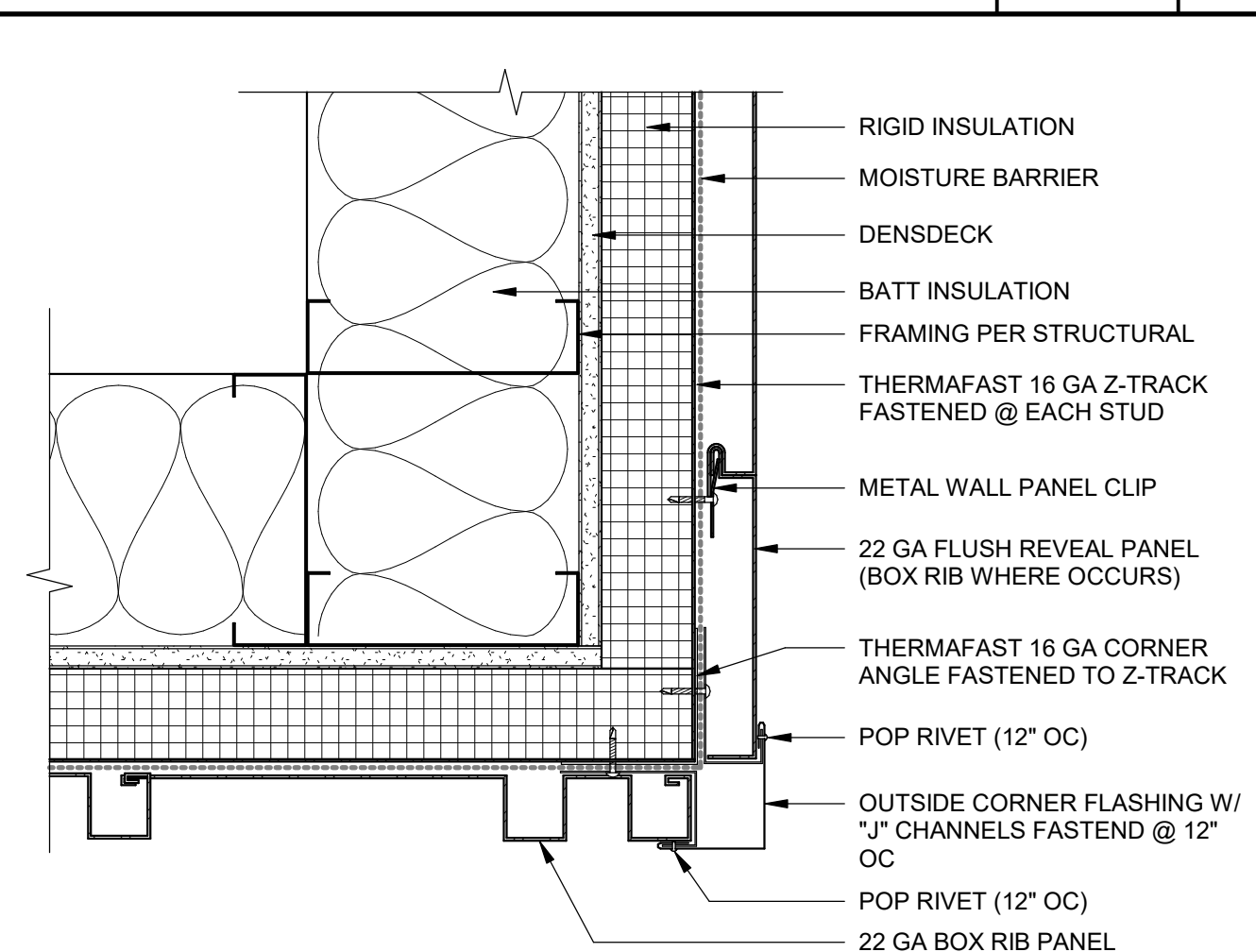
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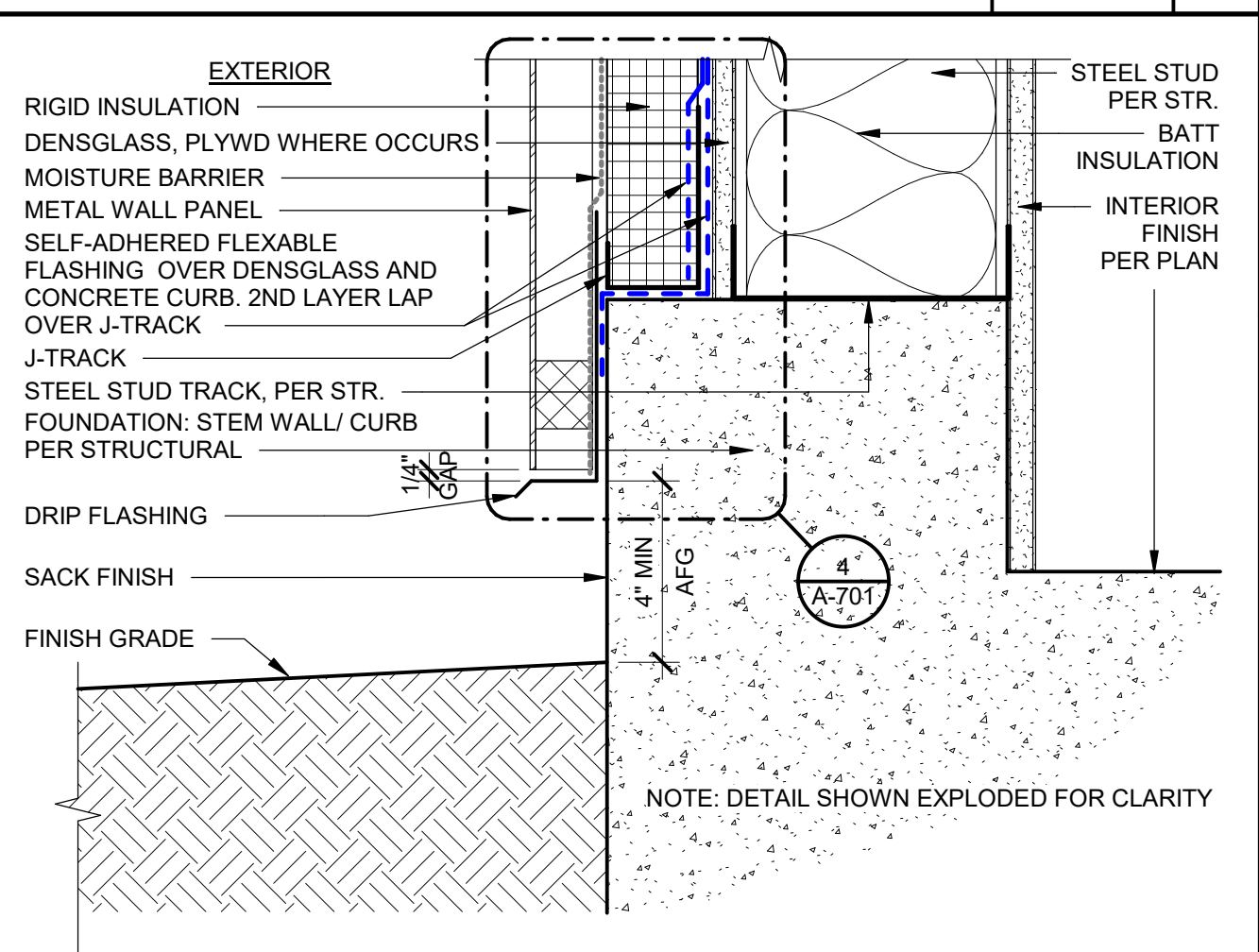
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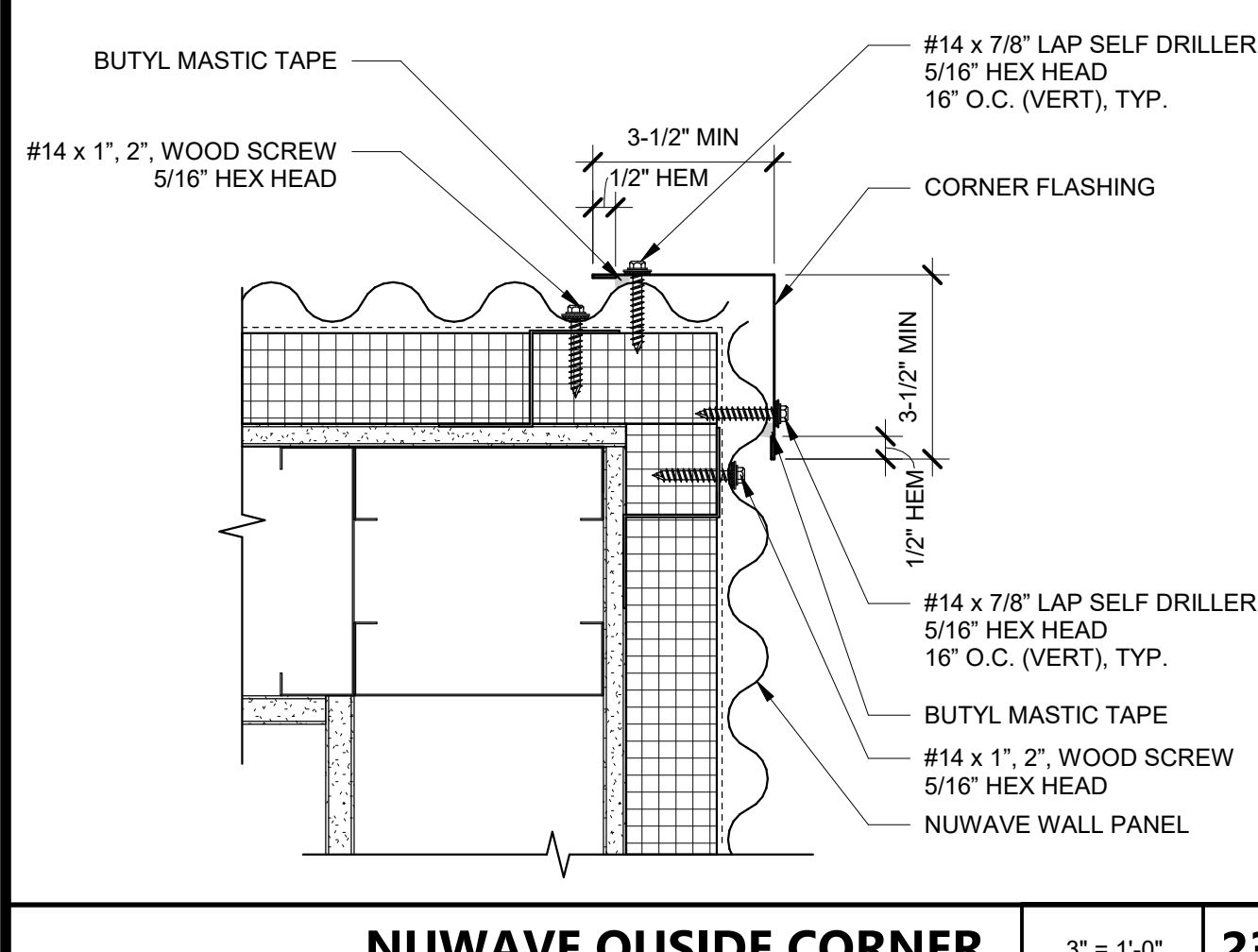
CONE FLASHING AT PENETRATION 3" = 1'-0" 12



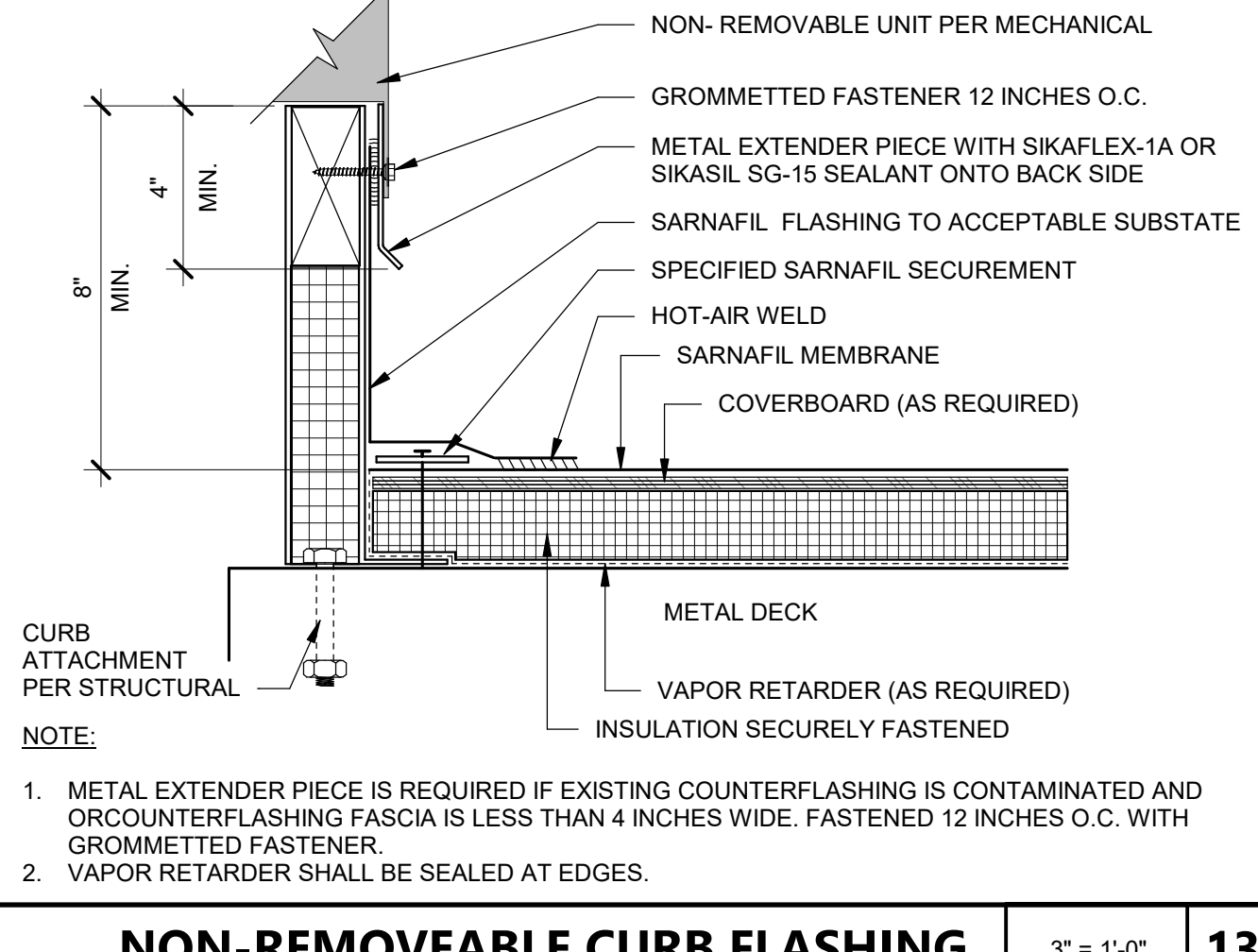
OUTSIDE CORNER FLASHING 3" = 1'-0" 7



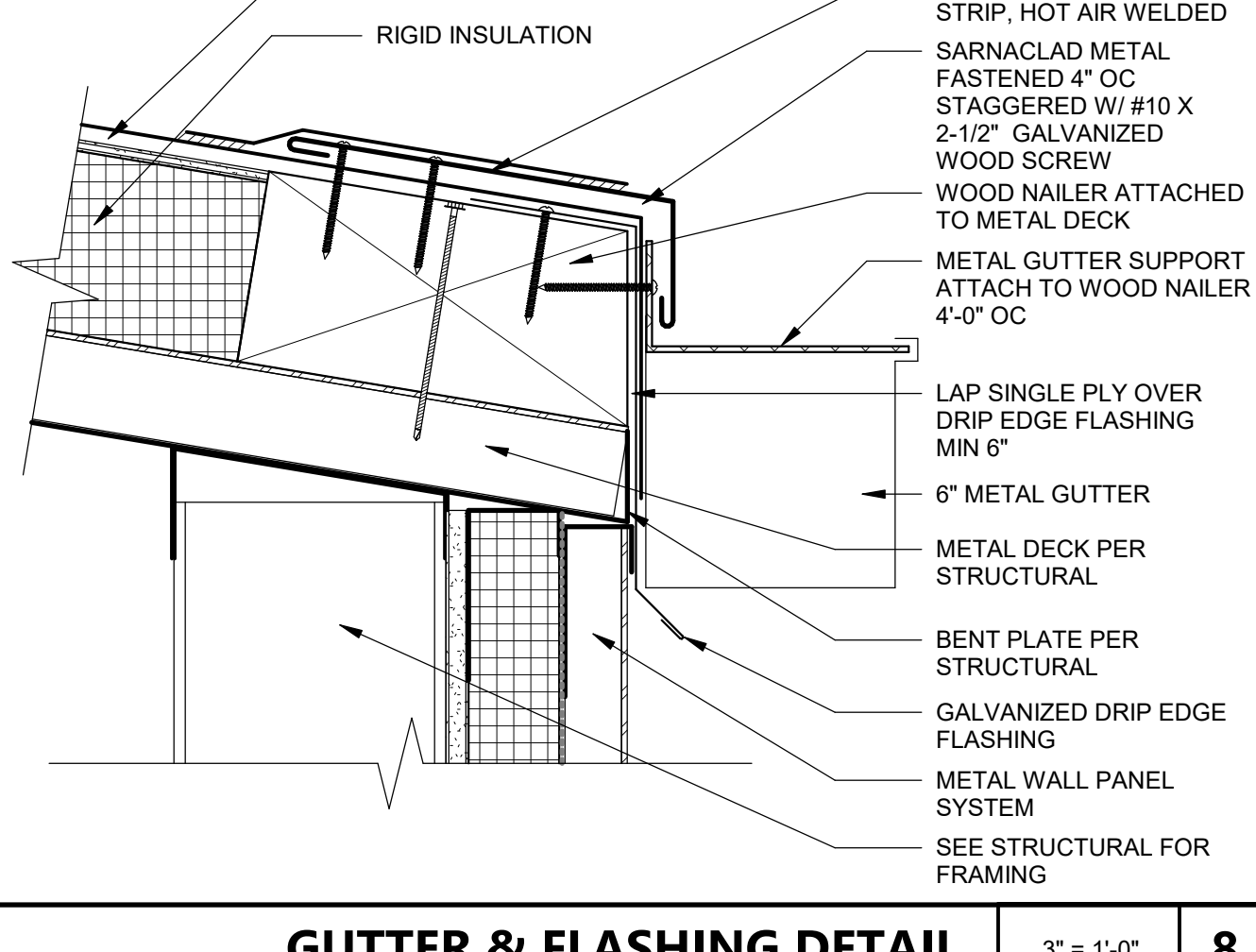
METAL WALL PANEL @ FINISH GRADE 3" = 1'-0" 2



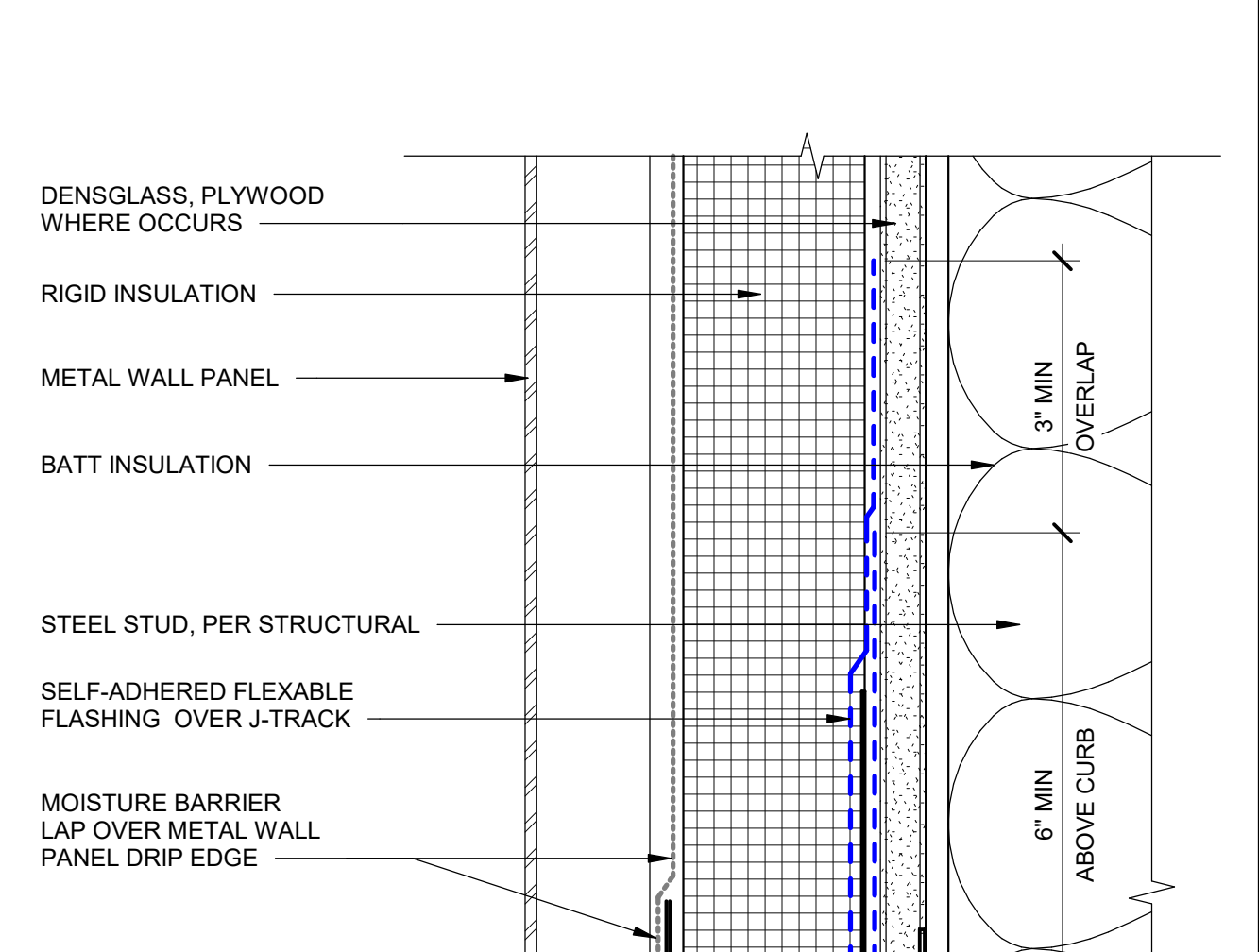
EXTERIOR WAP MOUNTING 1 1/2" = 1'-0" 18



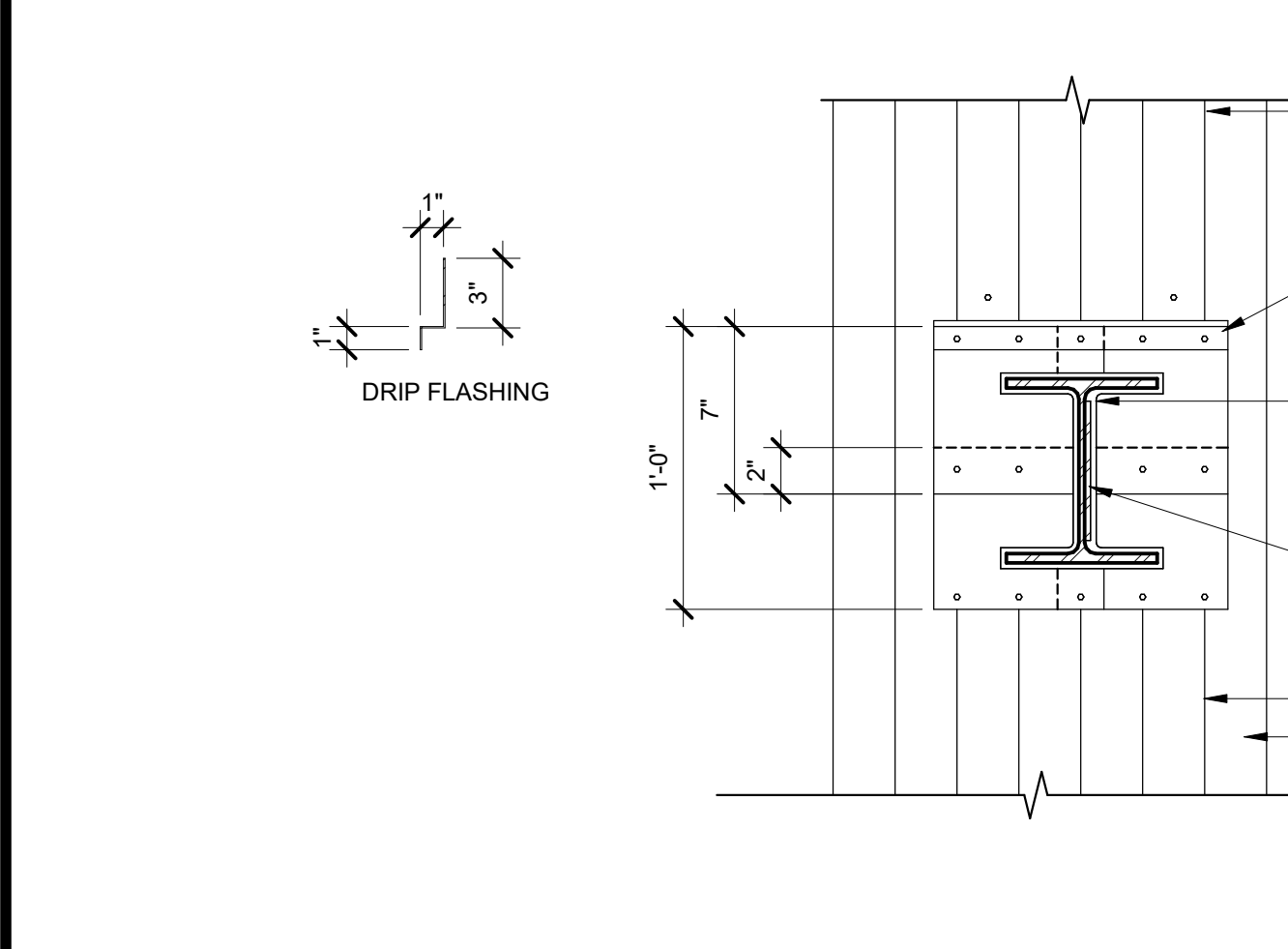
NON-REMOVABLE CURB FLASHING 3" = 1'-0" 13



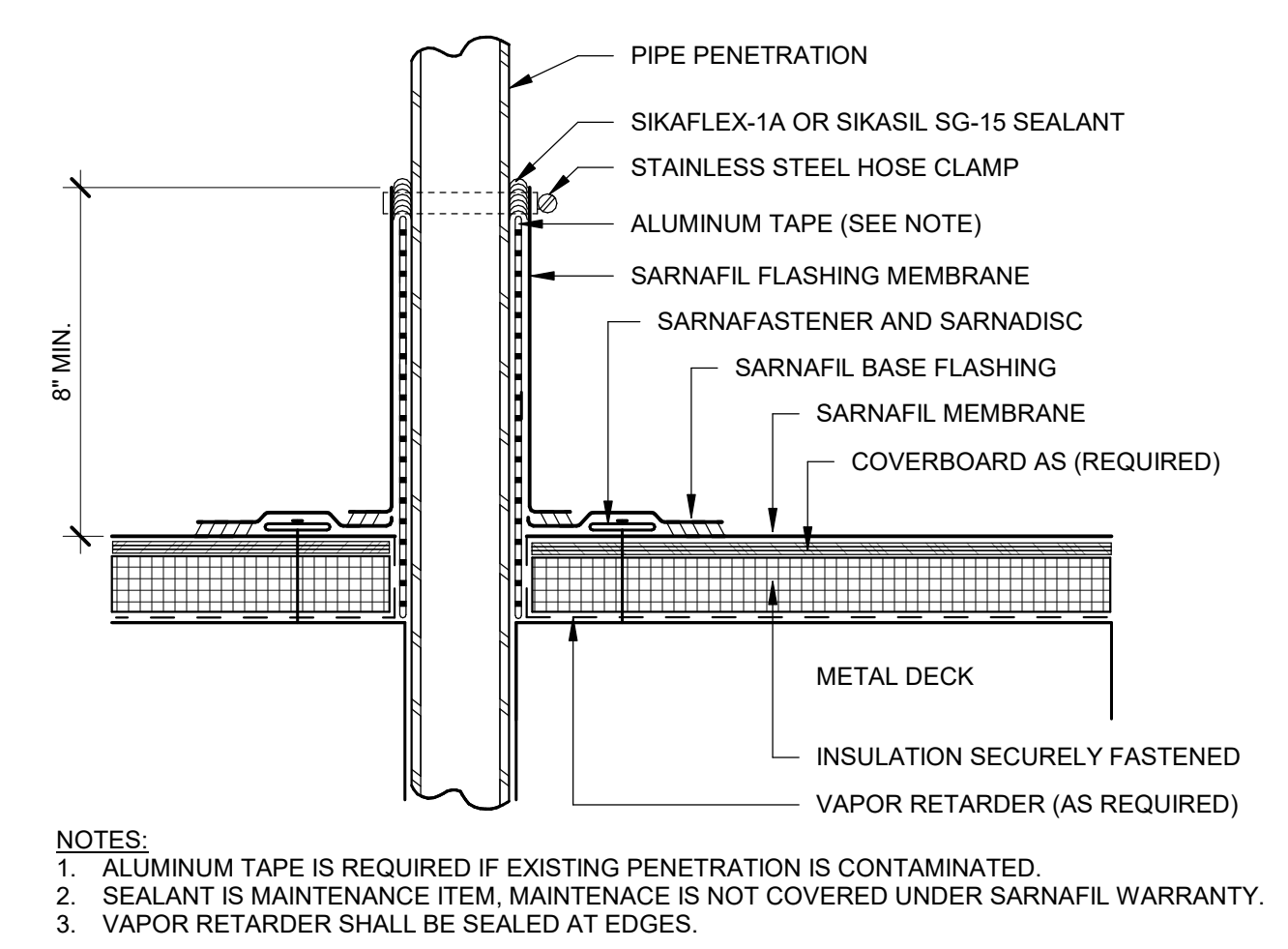
GUTTER & FLASHING DETAIL 3" = 1'-0" 8



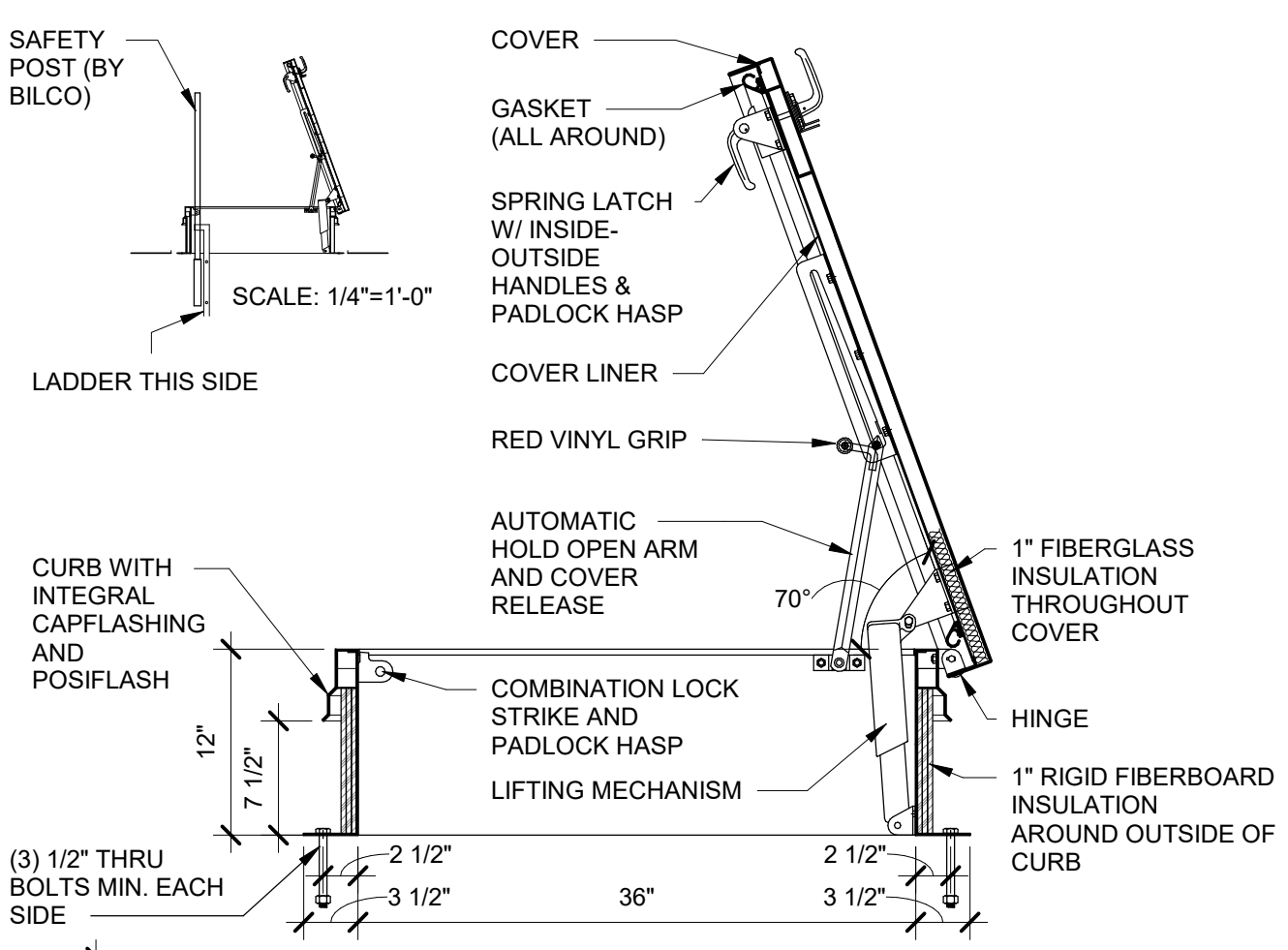
FLEX FLASHING @ MTL WALL PANEL SILL 6" = 1'-0" 4



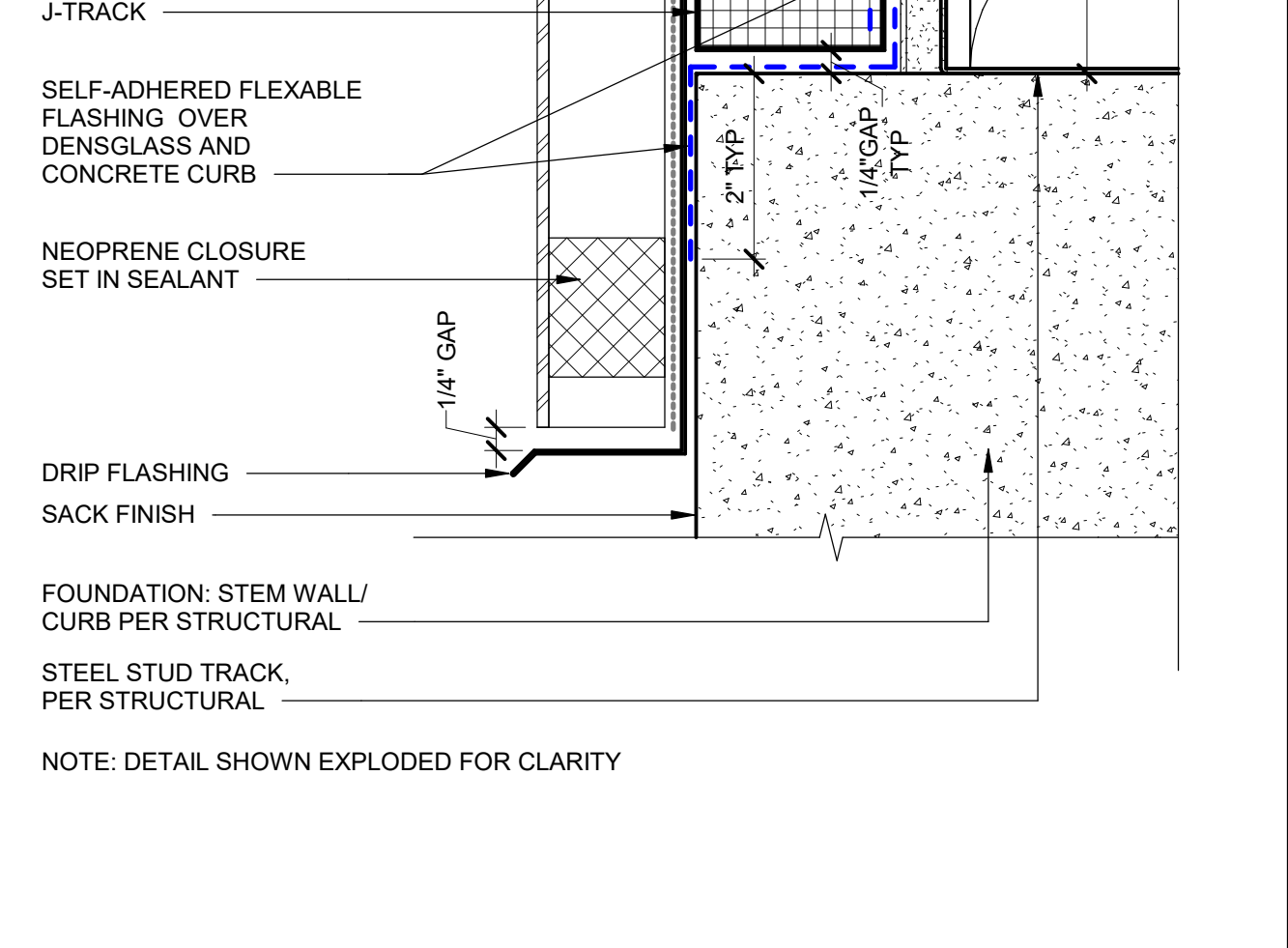
FLASHING AT BEAM 1 1/2" = 1'-0" 19



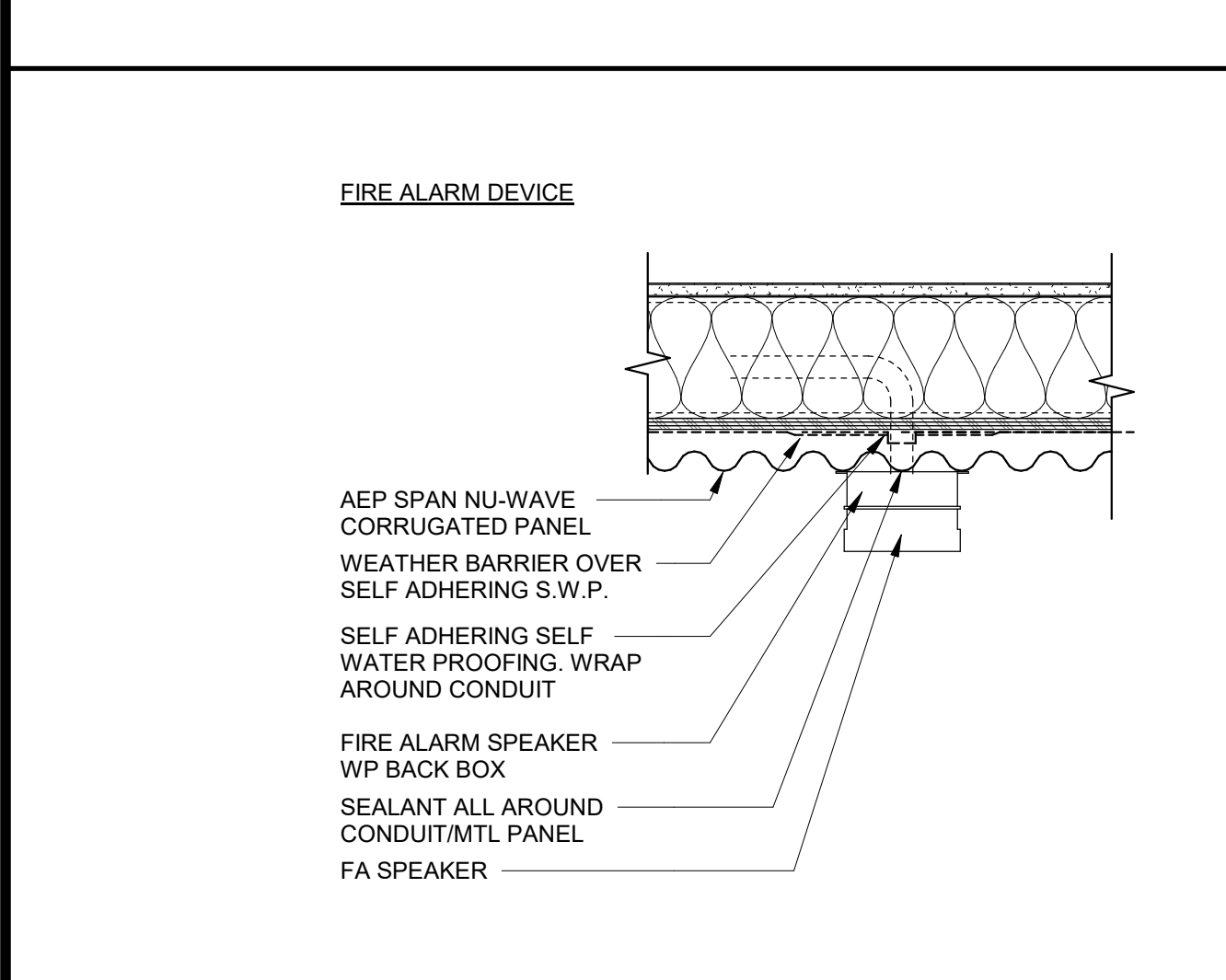
PIPE PENETRATION DETAIL 3" = 1'-0" 14



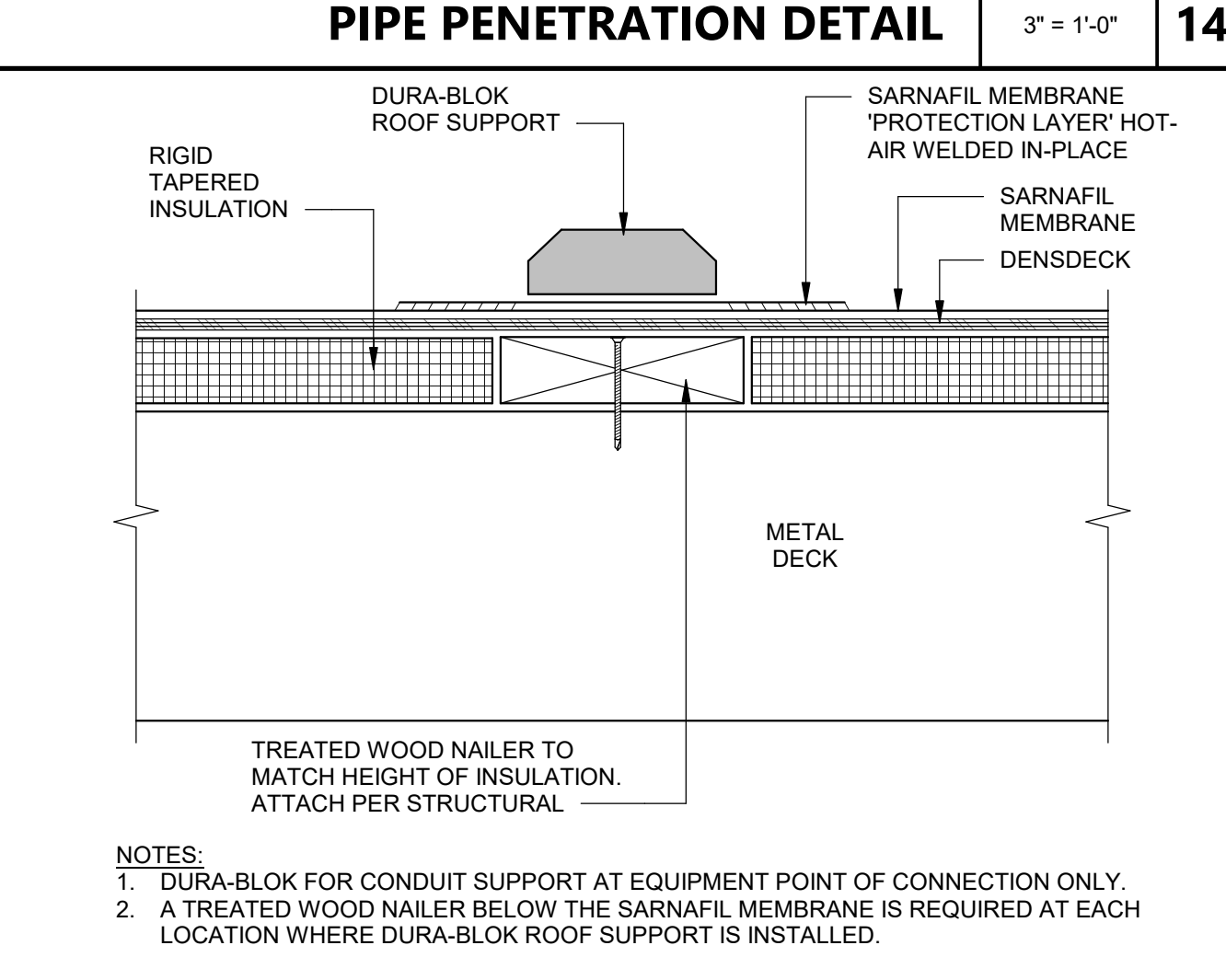
ROOF HATCH 1" = 1'-0" 9



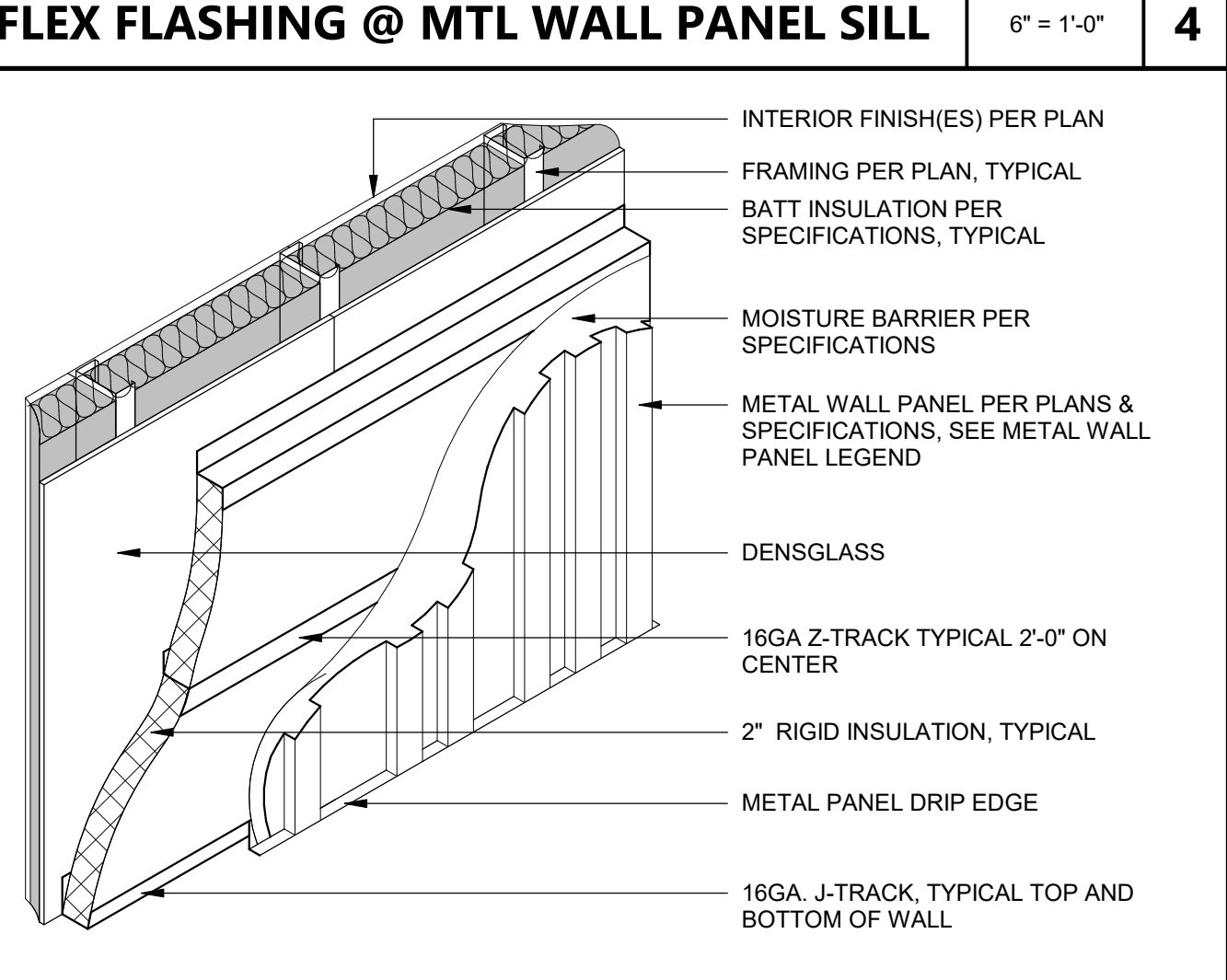
SINGLE PLY @ ROOF HATCH 3" = 1'-0" 10



FLASHING AT EXT. DEVICES 1 1/2" = 1'-0" 20



DURA-BLOK PROTECTION LAYER 3" = 1'-0" 15



METAL WALL PANEL SYSTEM 1" = 1'-0" 5

AGENCY APPROVAL DSAE 03-122864
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CALIFORNIA STATE FIRE MARSHAL
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PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.
Approved by: DSAE 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

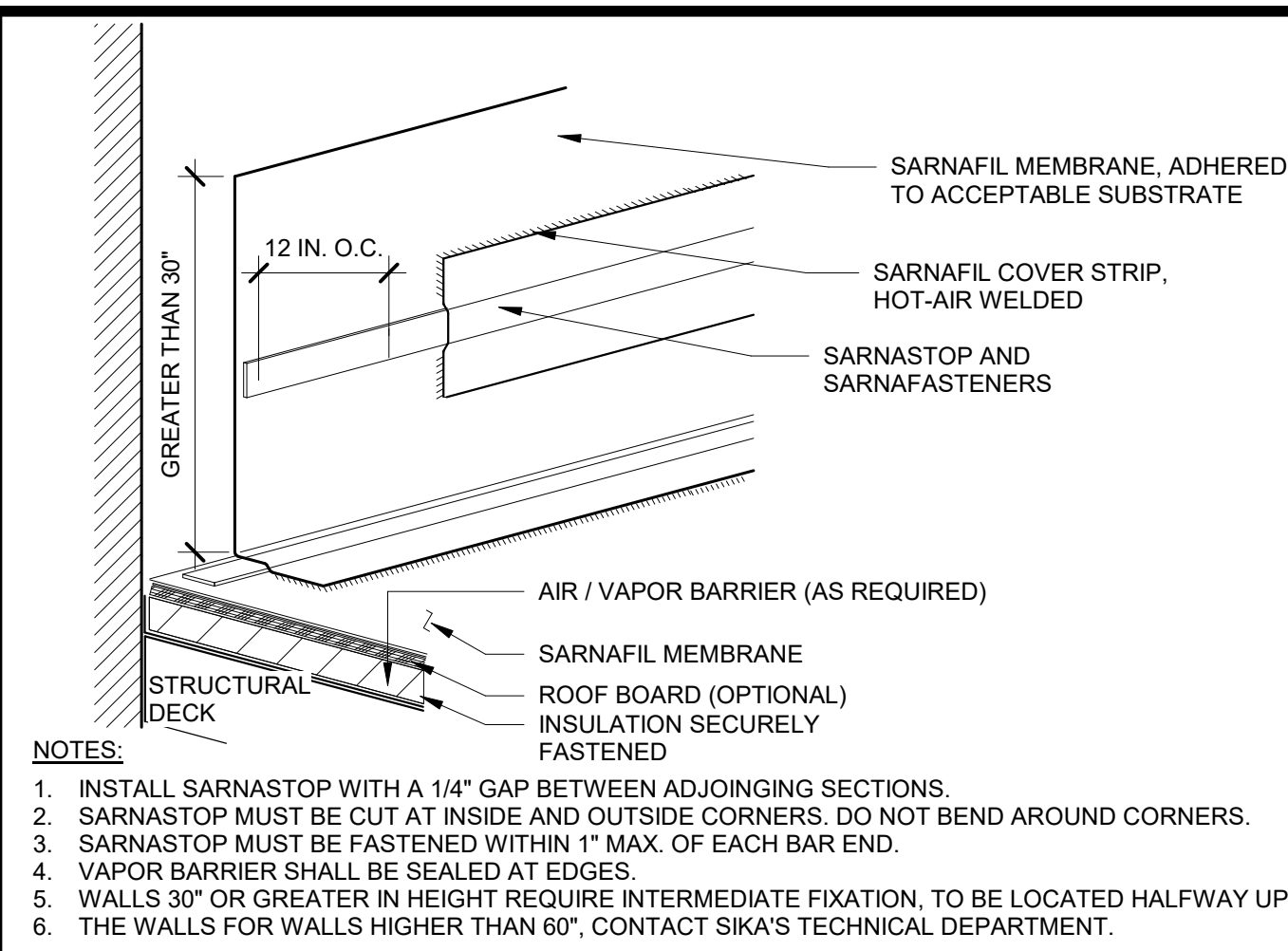
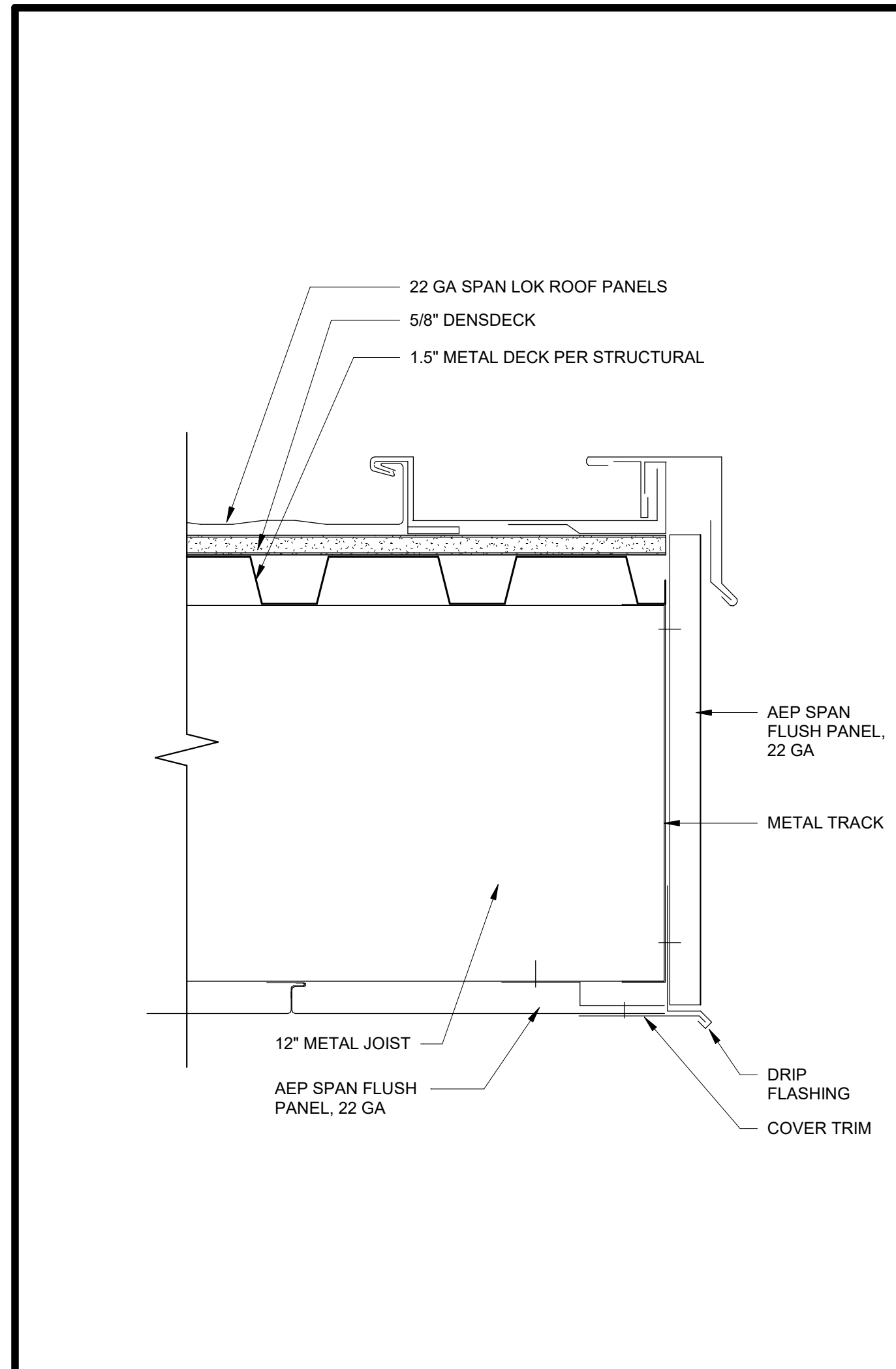
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26535 SUMMIT CIRCLE
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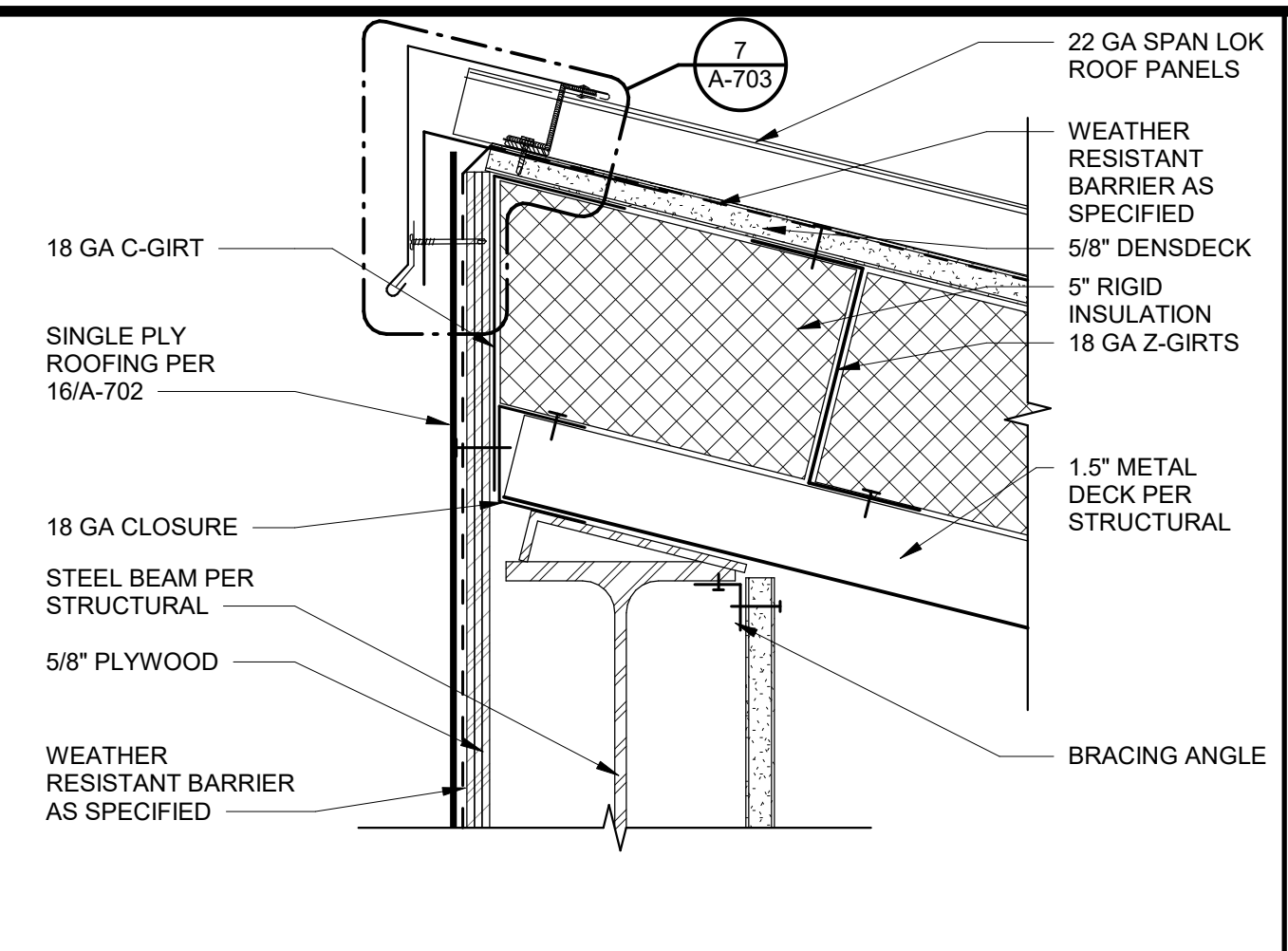
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CONSULTANT STAMP
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AIA No. 22474
Alec Strubel
REN 10-31-25
STATE OF CALIFORNIA
REVISIONS
NO. DATE DESCRIPTION
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SHEET TITLE
EXTERIOR DETAILS
DRAWN BY: DRP JOB NUMBER: 211793.01
SHEET NO.
A-701
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

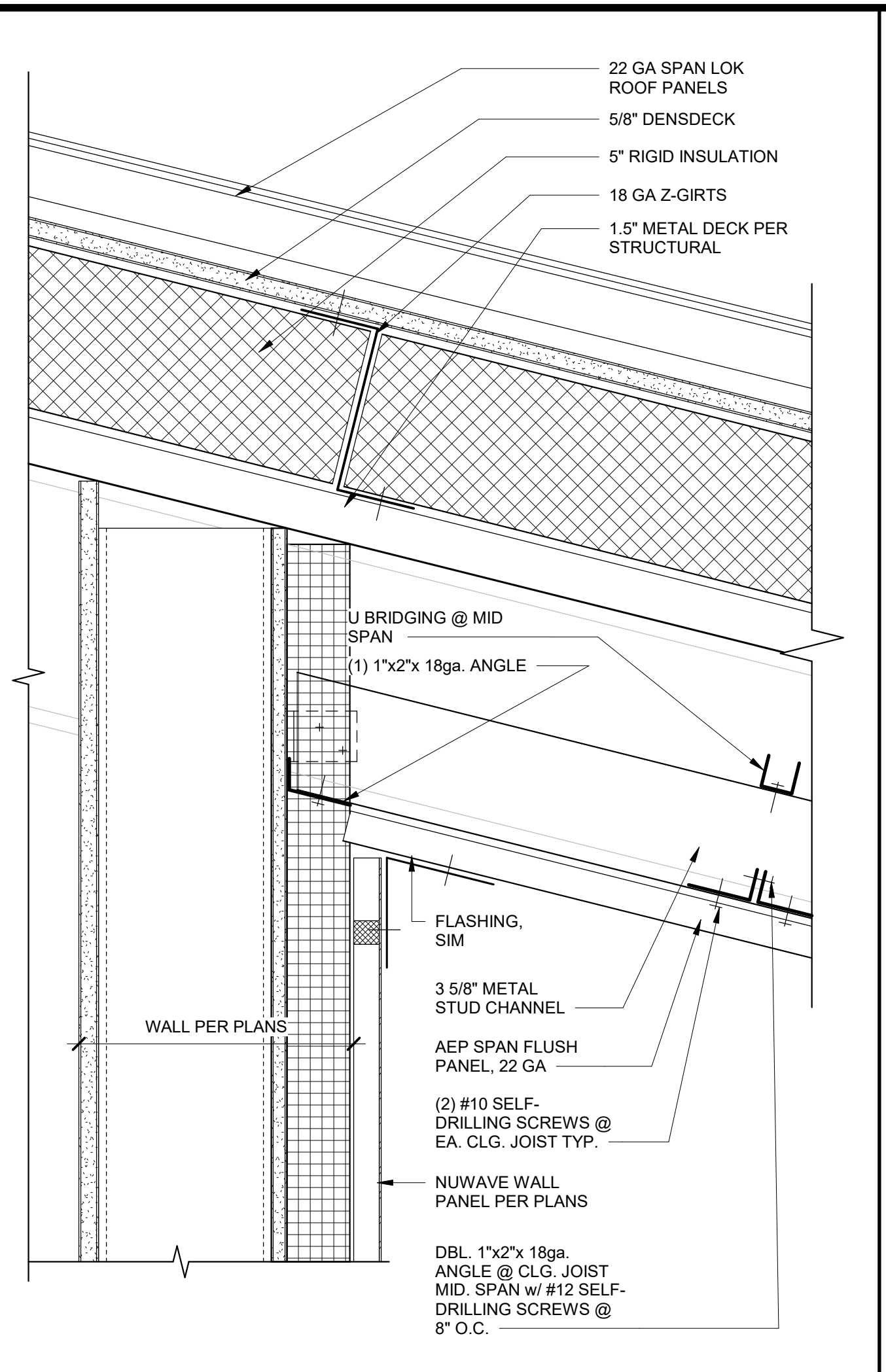
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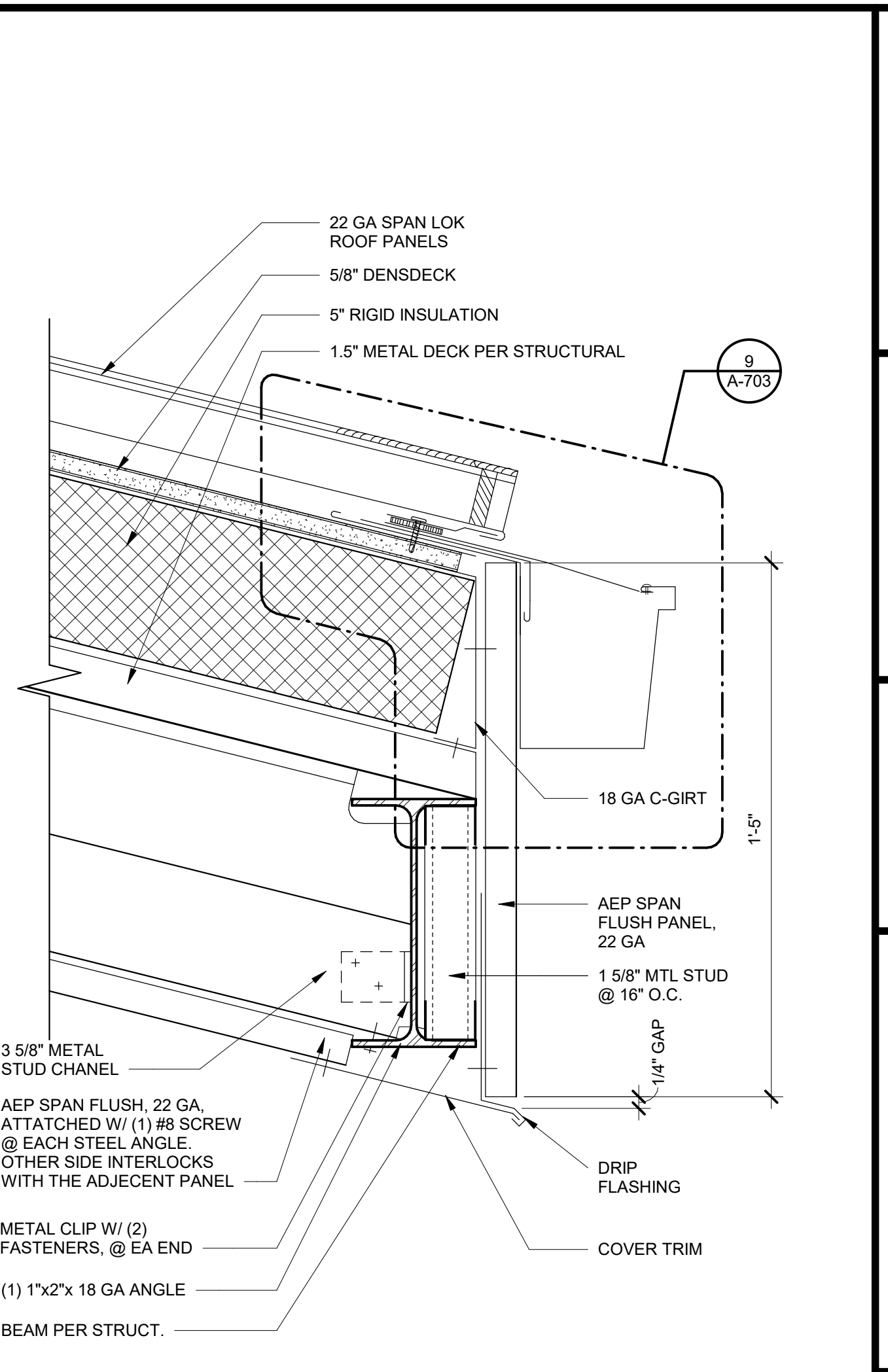
ADHERED WALL FLASHING 3" = 1'-0" 16



HIGH EAVE 3" = 1'-0" 11

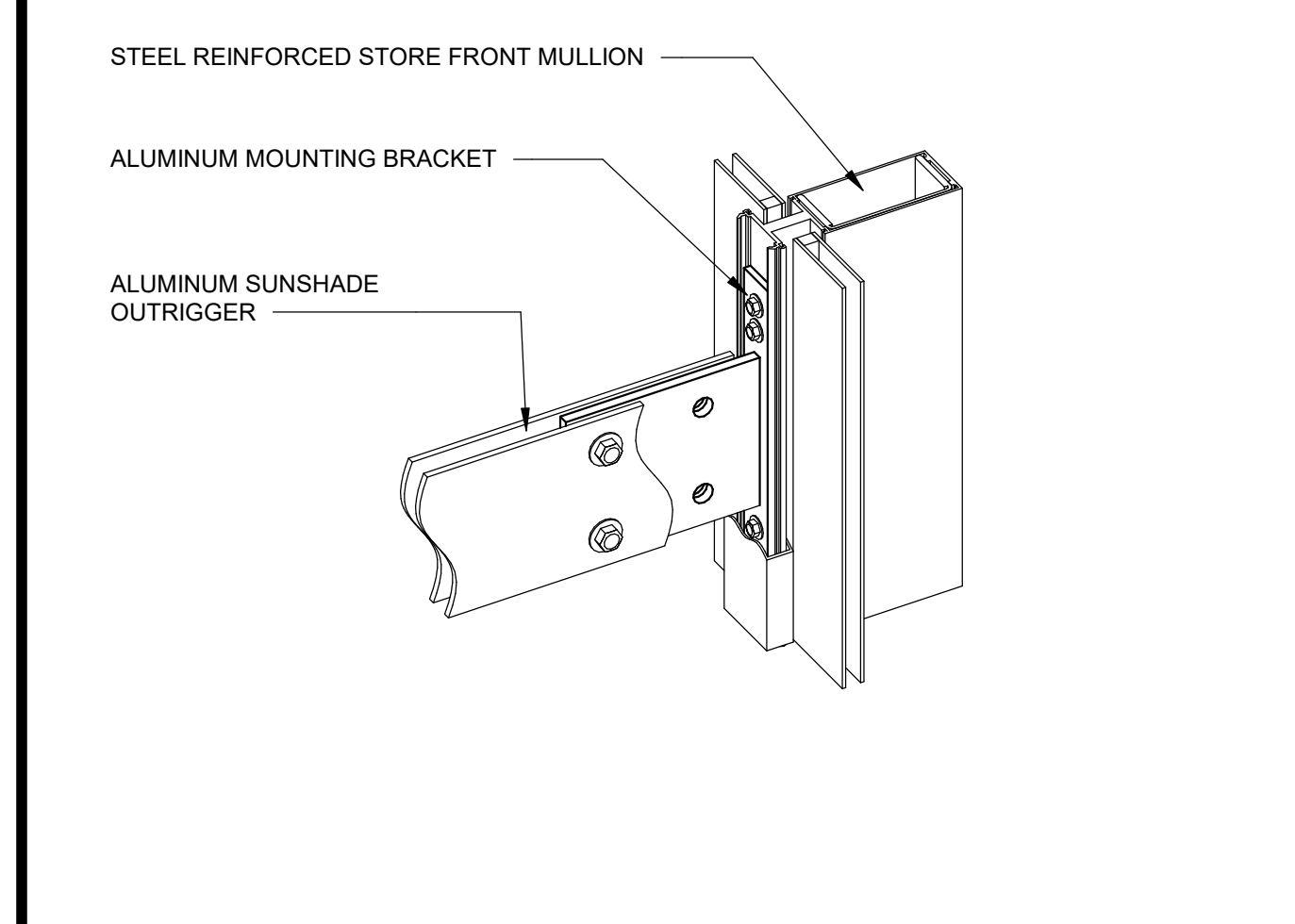


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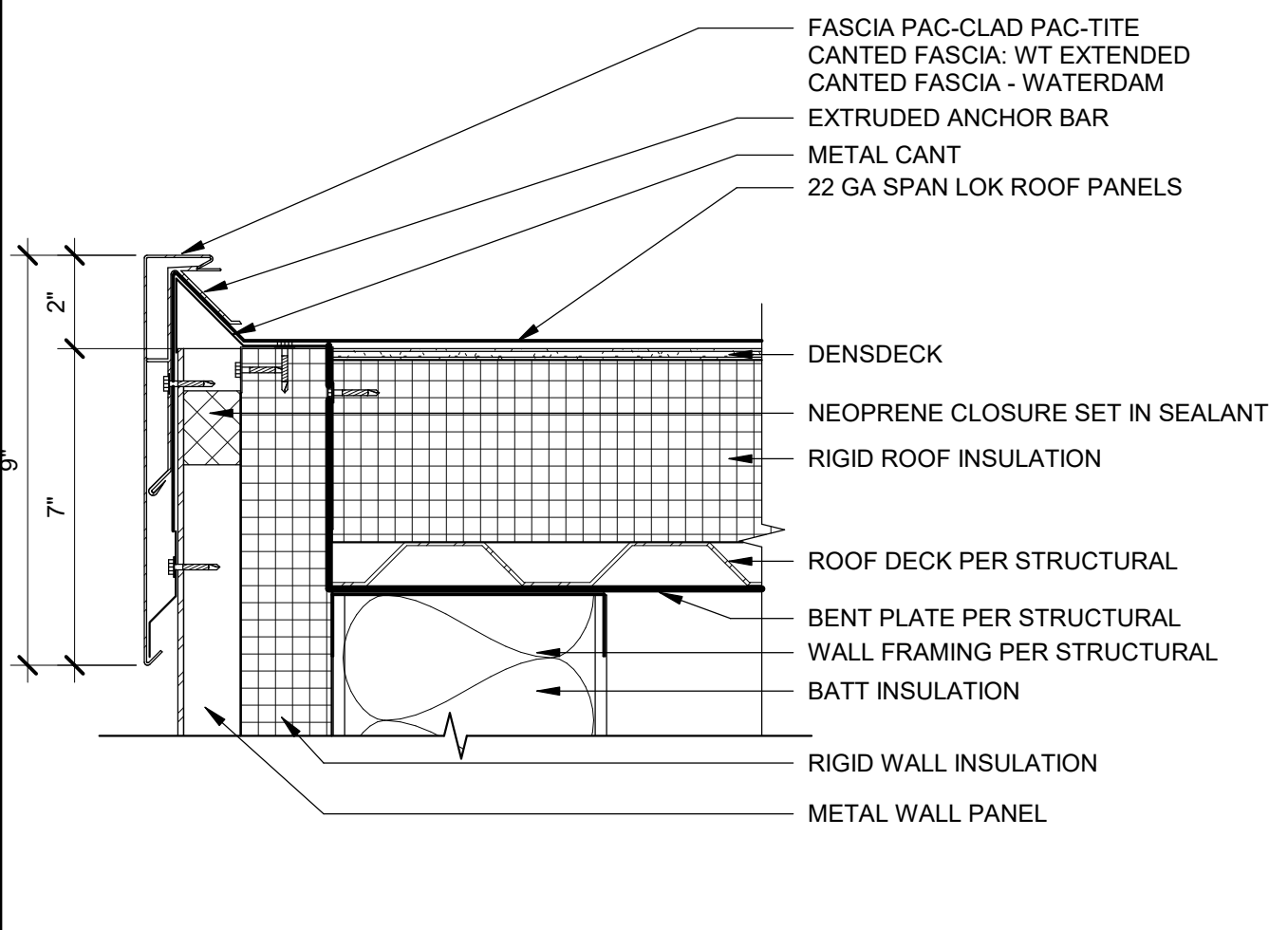


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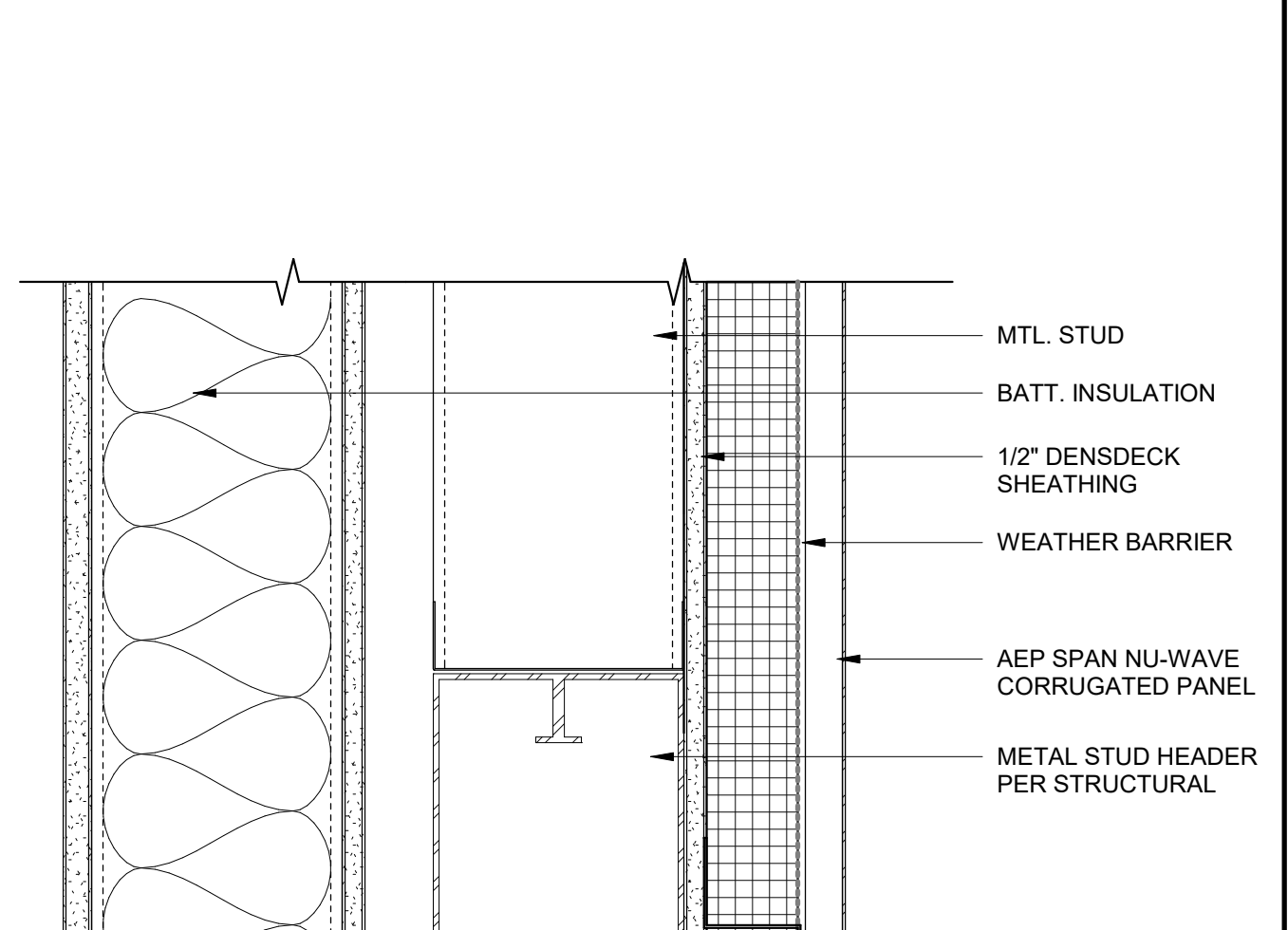
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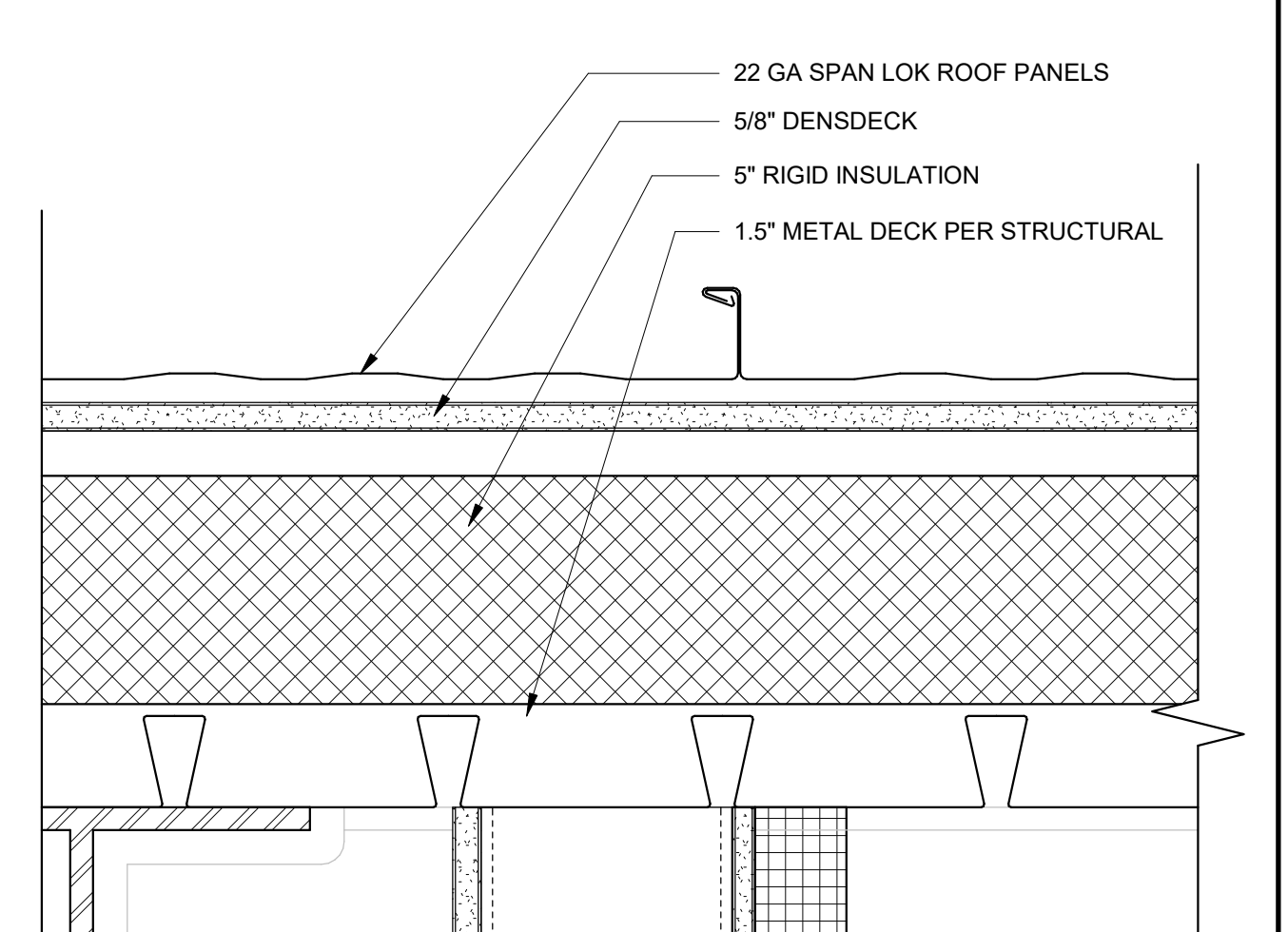
DOWNSPOUT TO STORM DRAIN 1" = 1'-0" 12



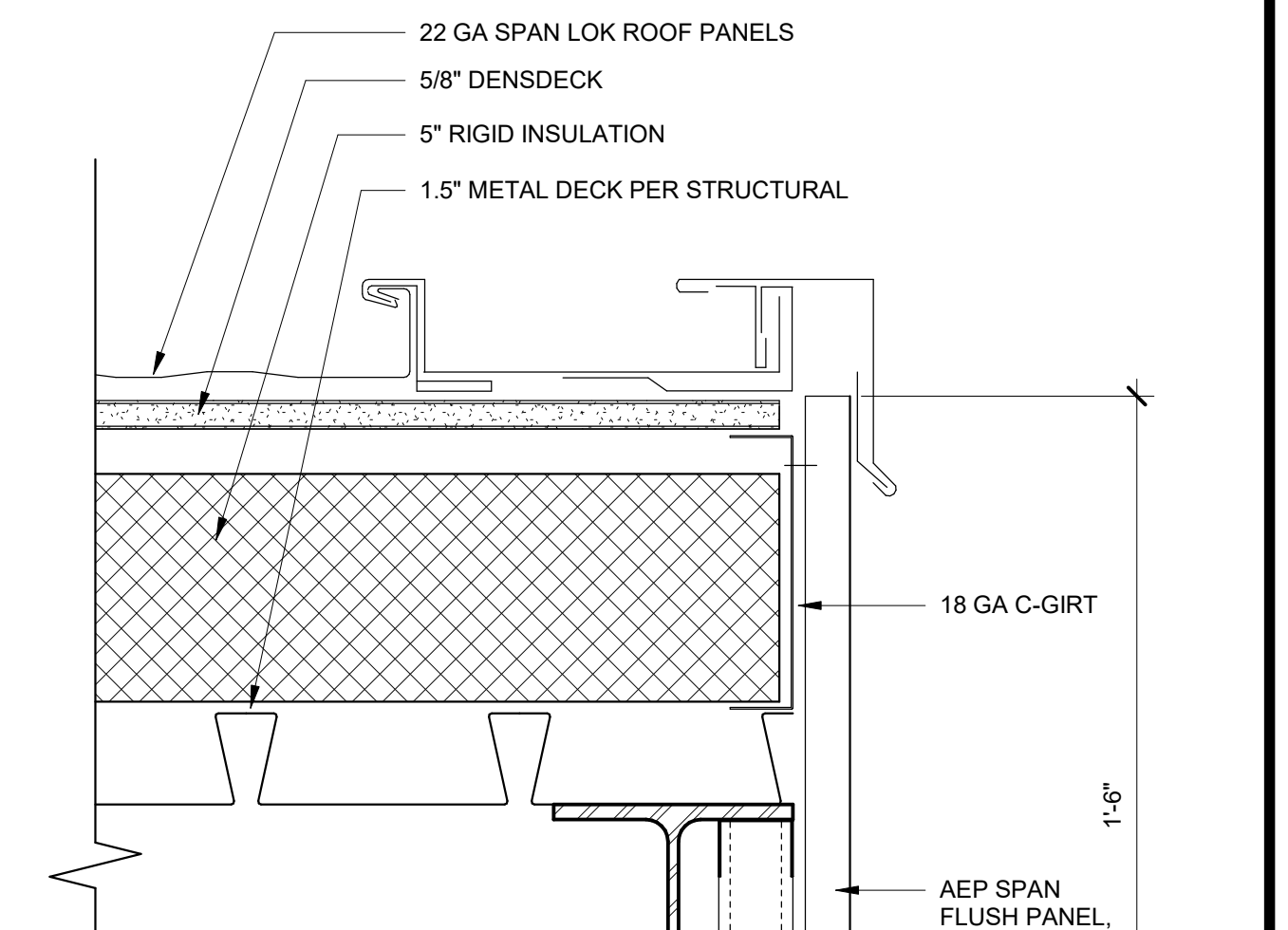
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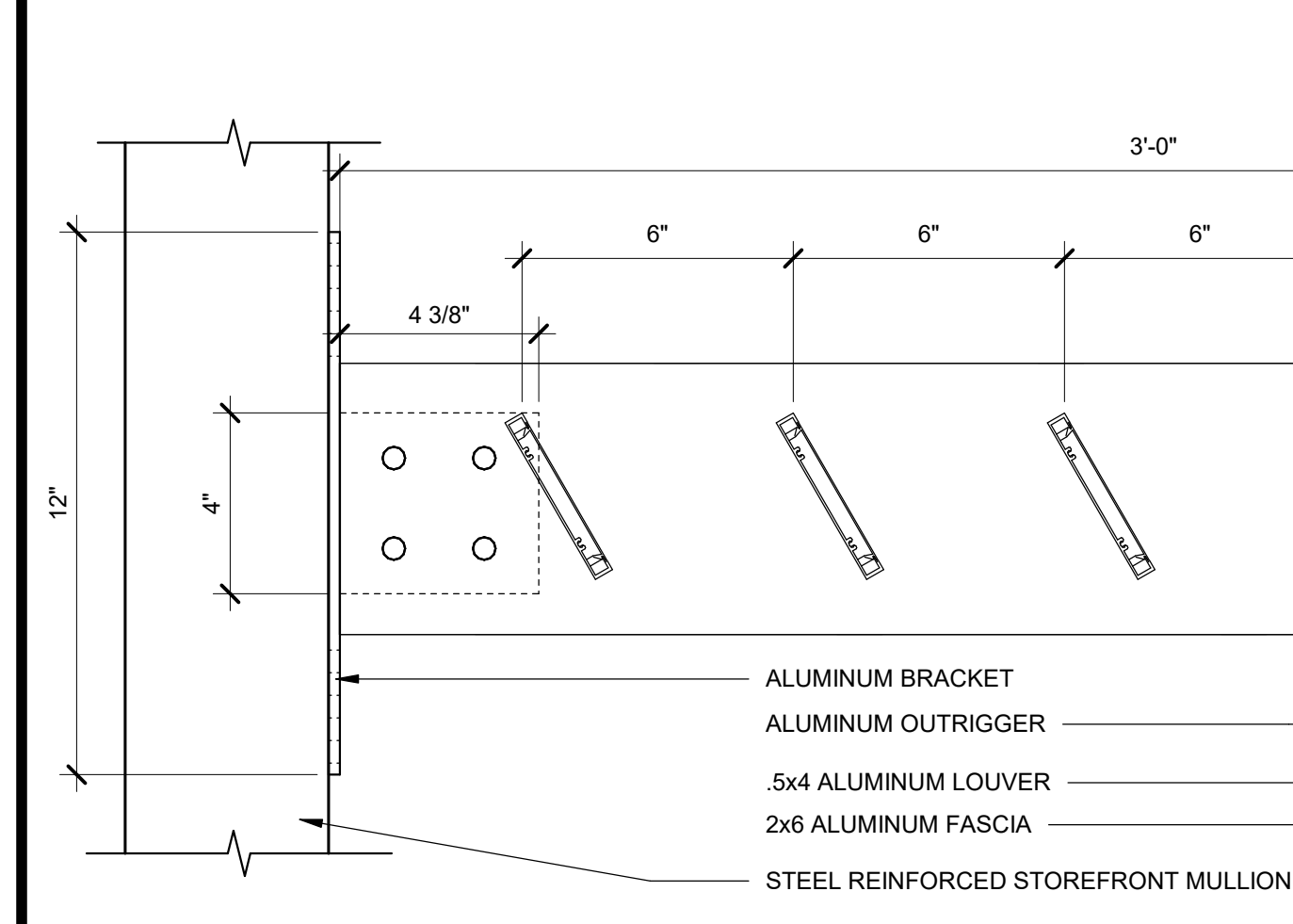
SOFFIT AT WALL - RAKE 3" = 1'-0" 9



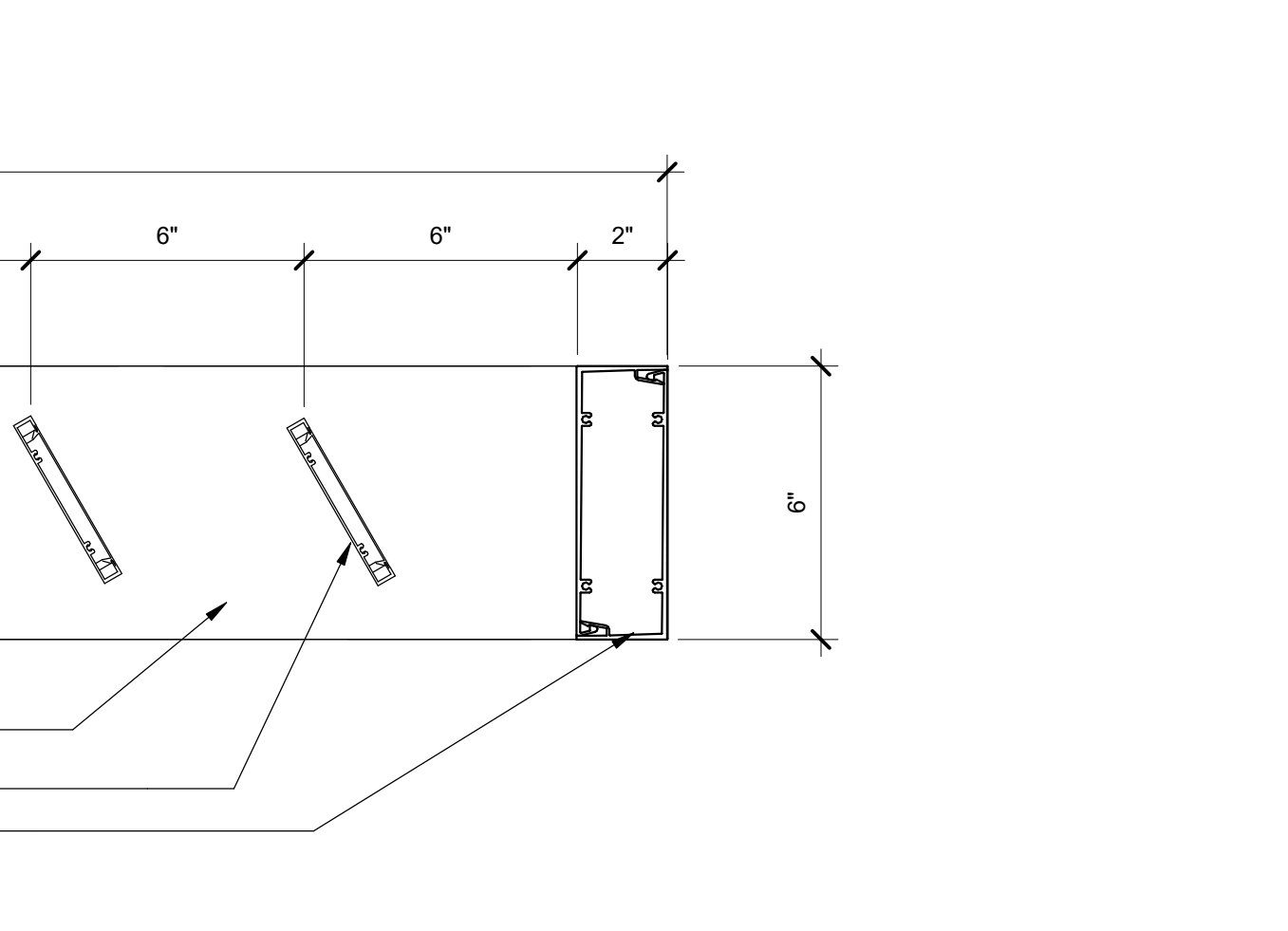
SOFFIT AT RAKE 3" = 1'-0" 4



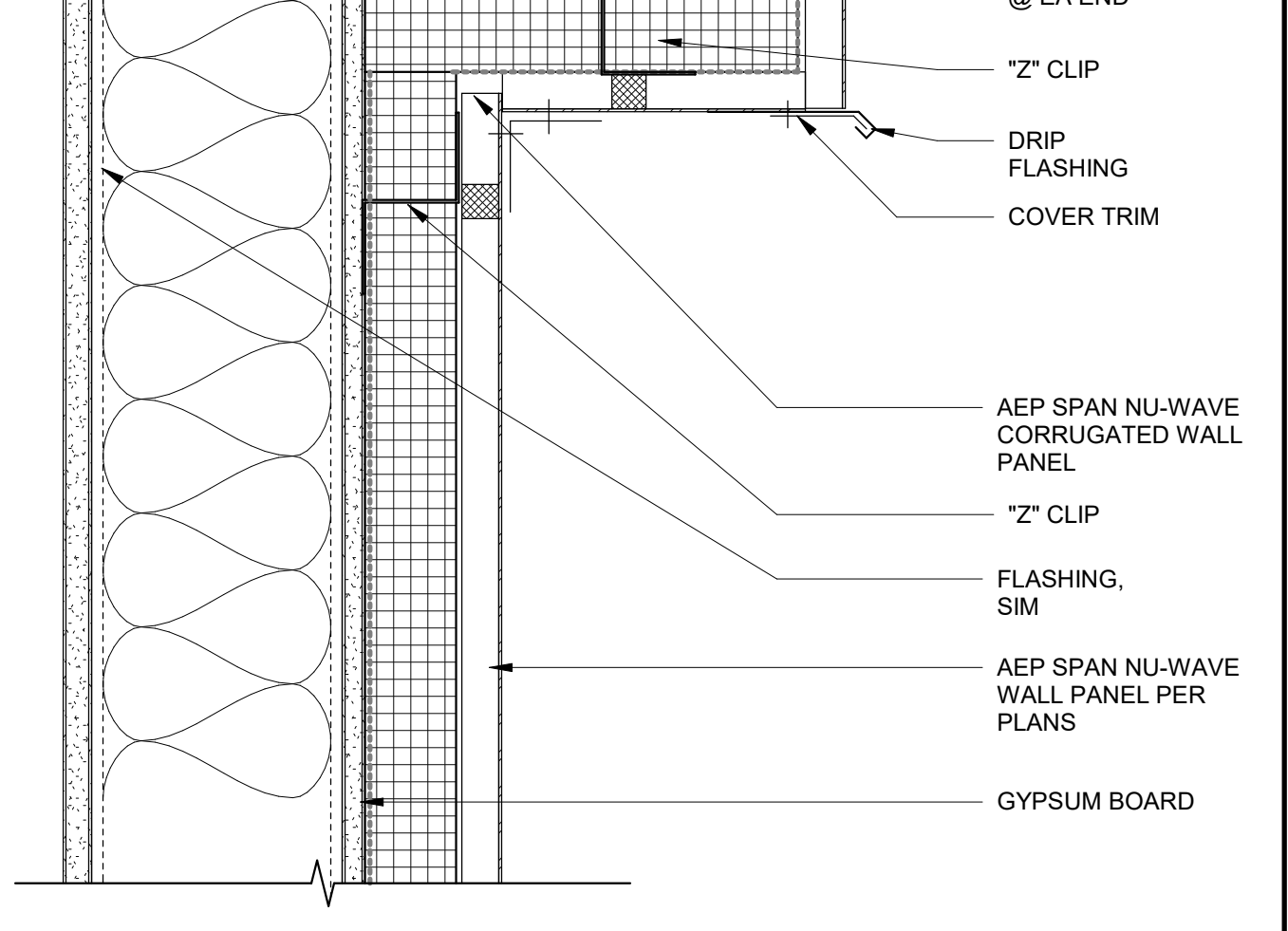
SUNSHADE ATTACHMENT ISO 3" = 1'-0" 22



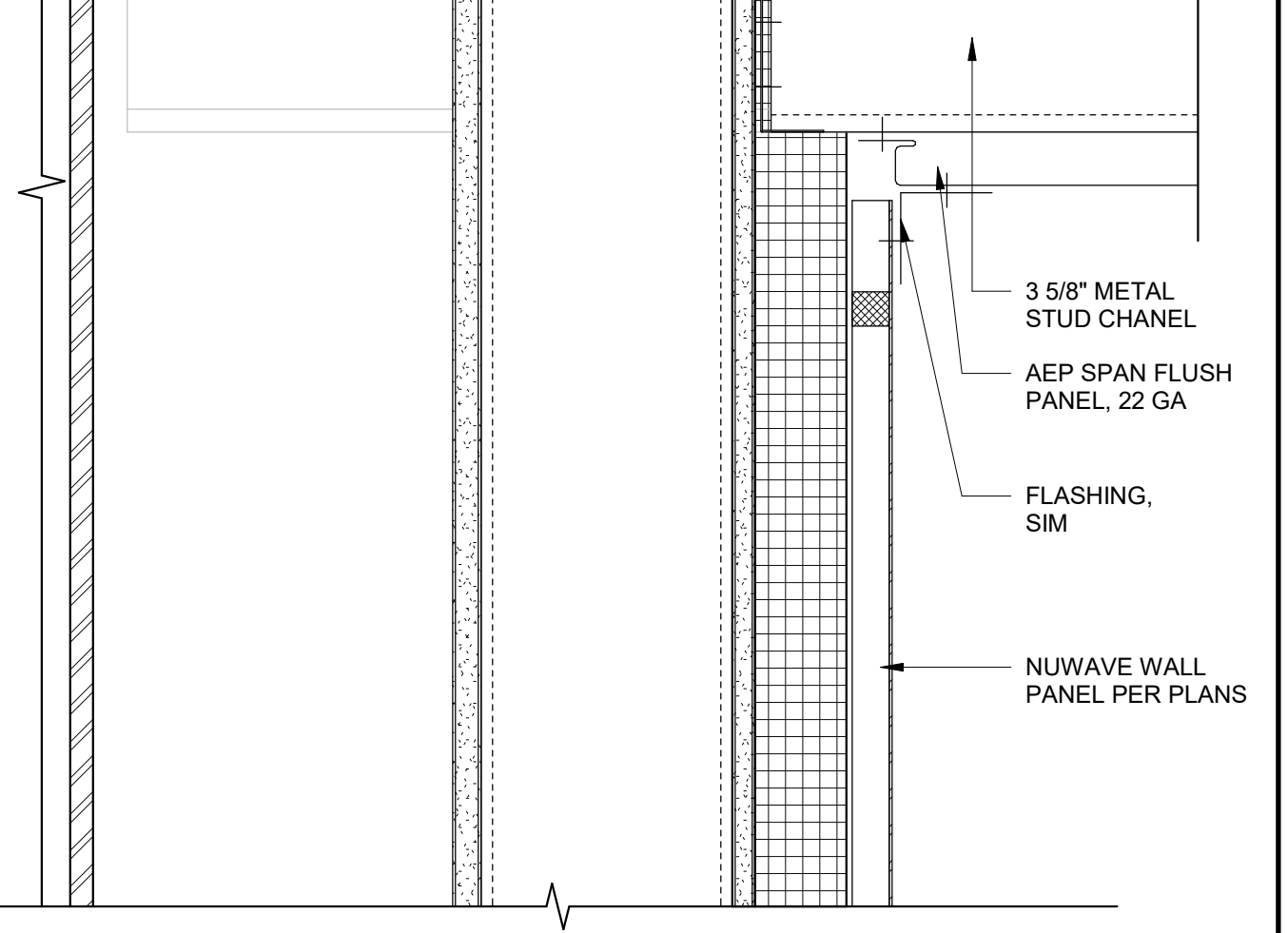
FASCIA @ METAL WALL PANELS 3" = 1'-0" 18



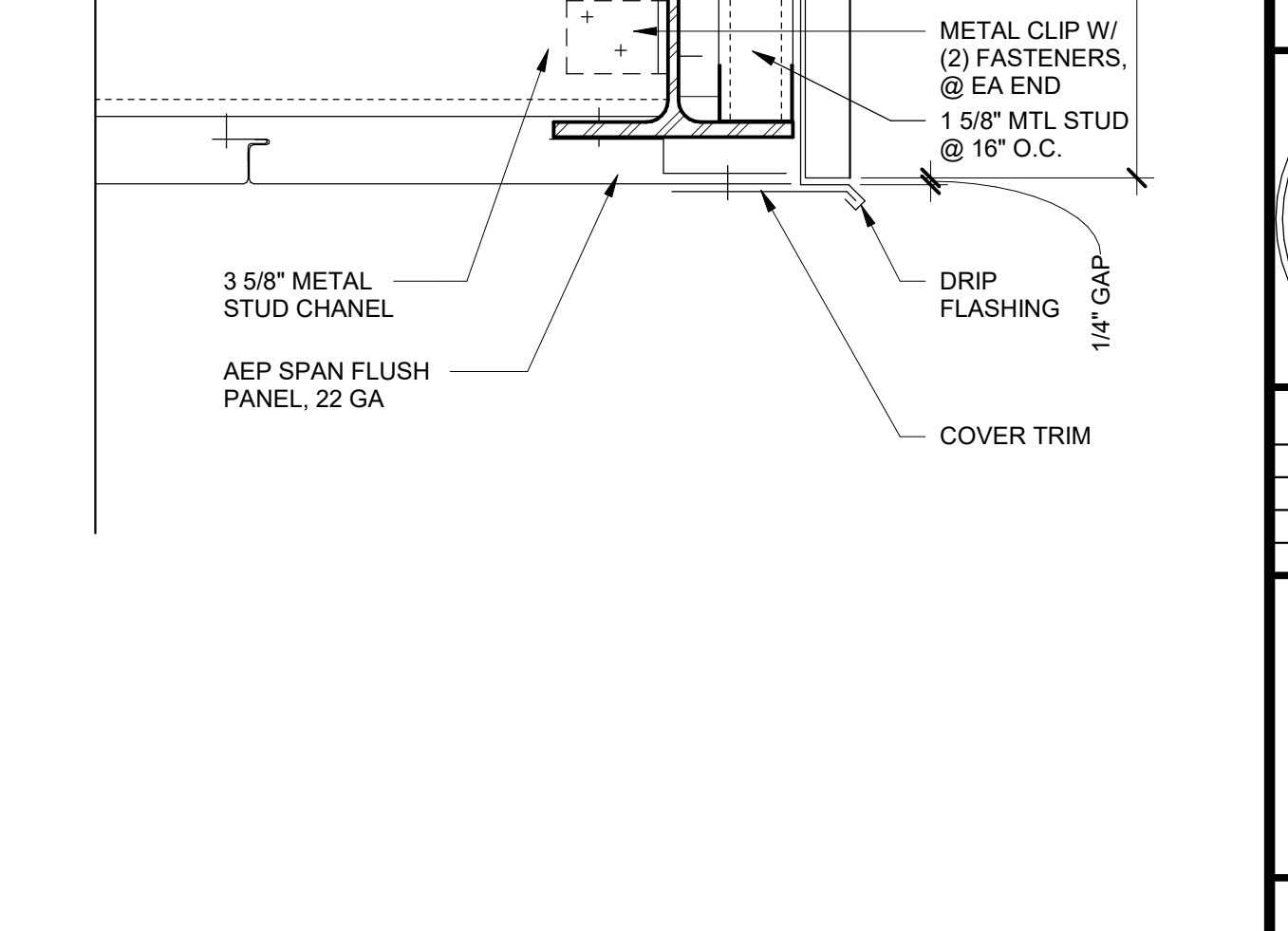
ALUMINUM SUNSHADE SECTION 3" = 1'-0" 19



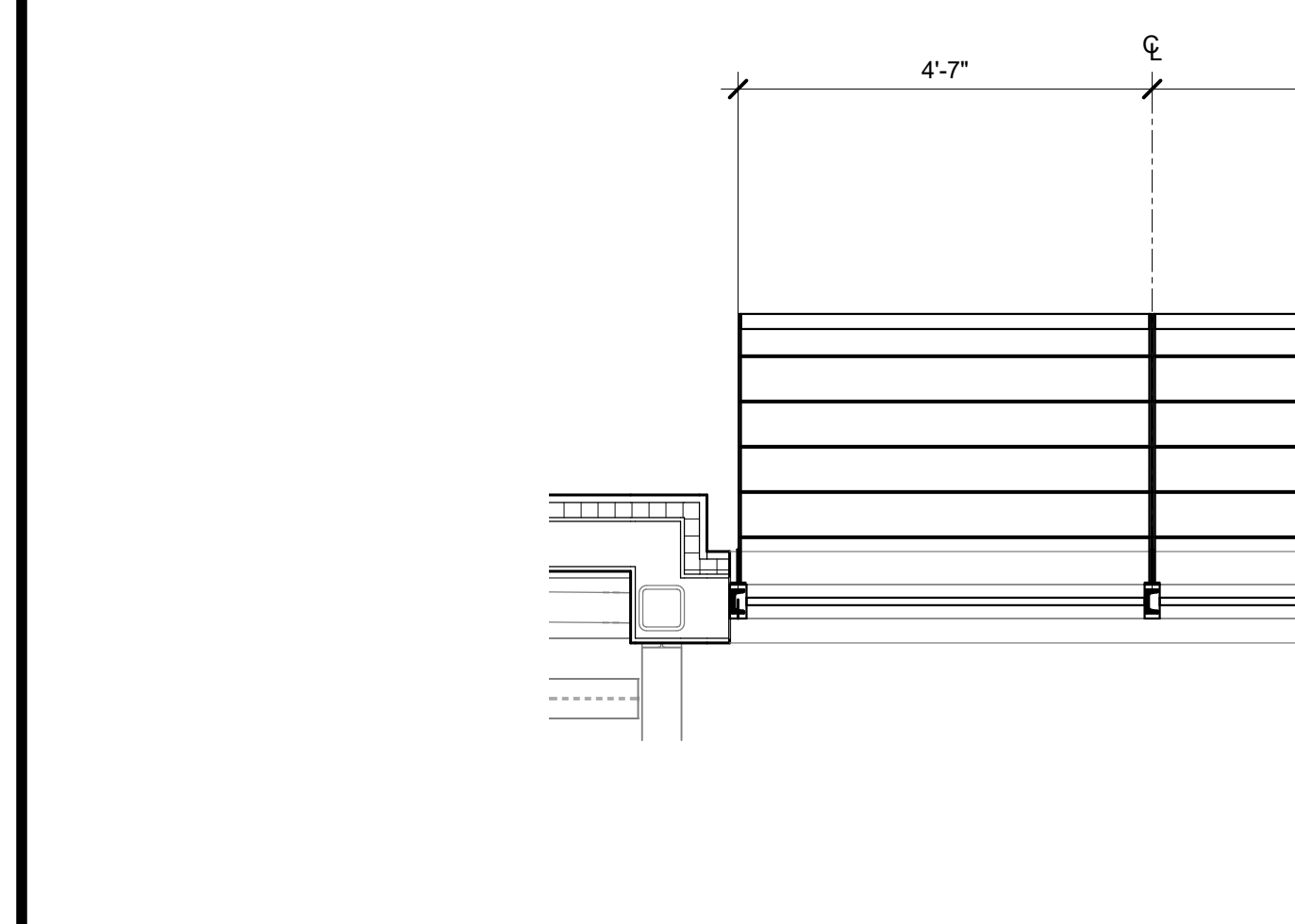
SOFFIT AT WINDOW 3" = 1'-0" 14



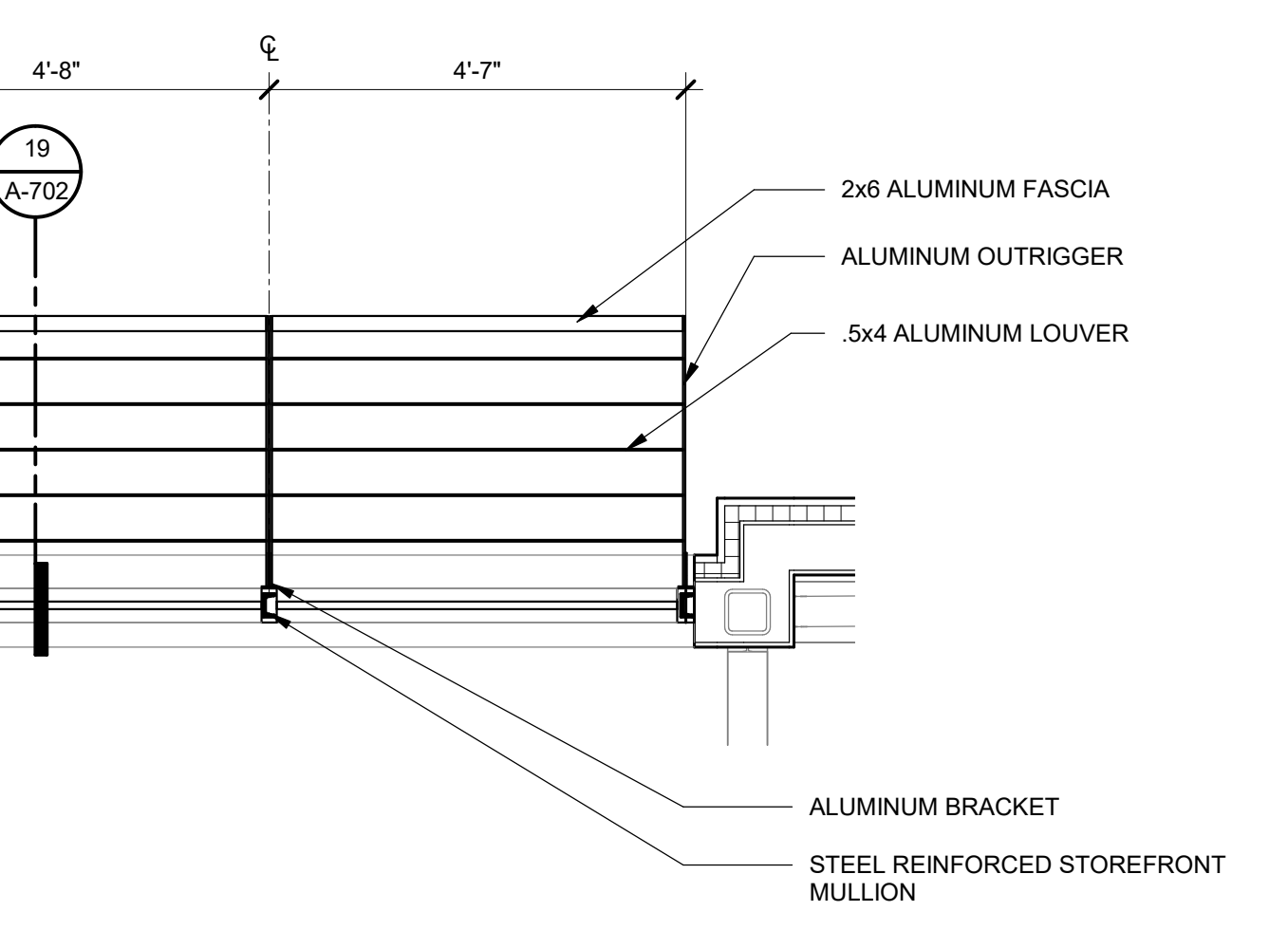
ROOF SECTION 1 1/2" = 1'-0" 5



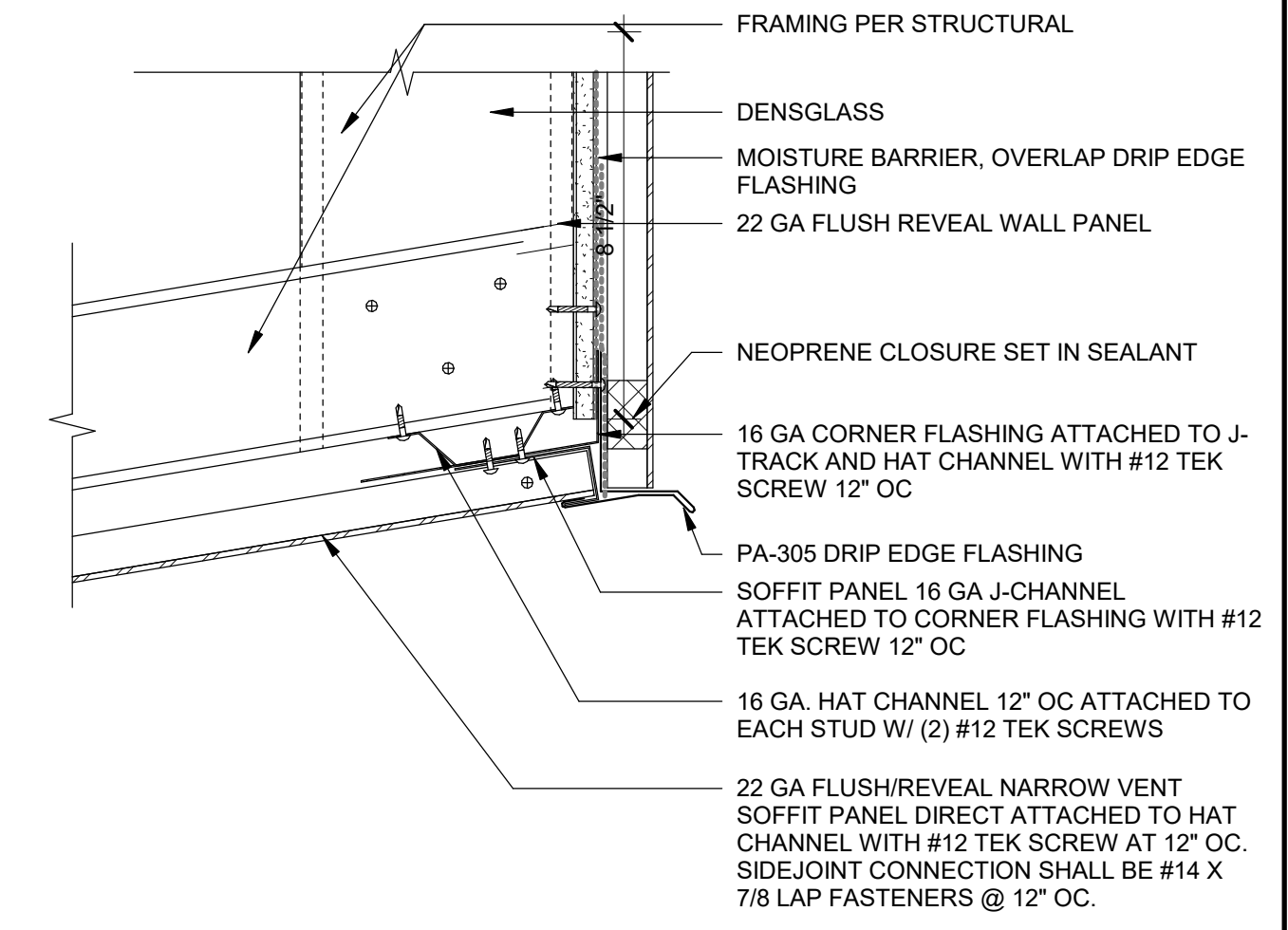
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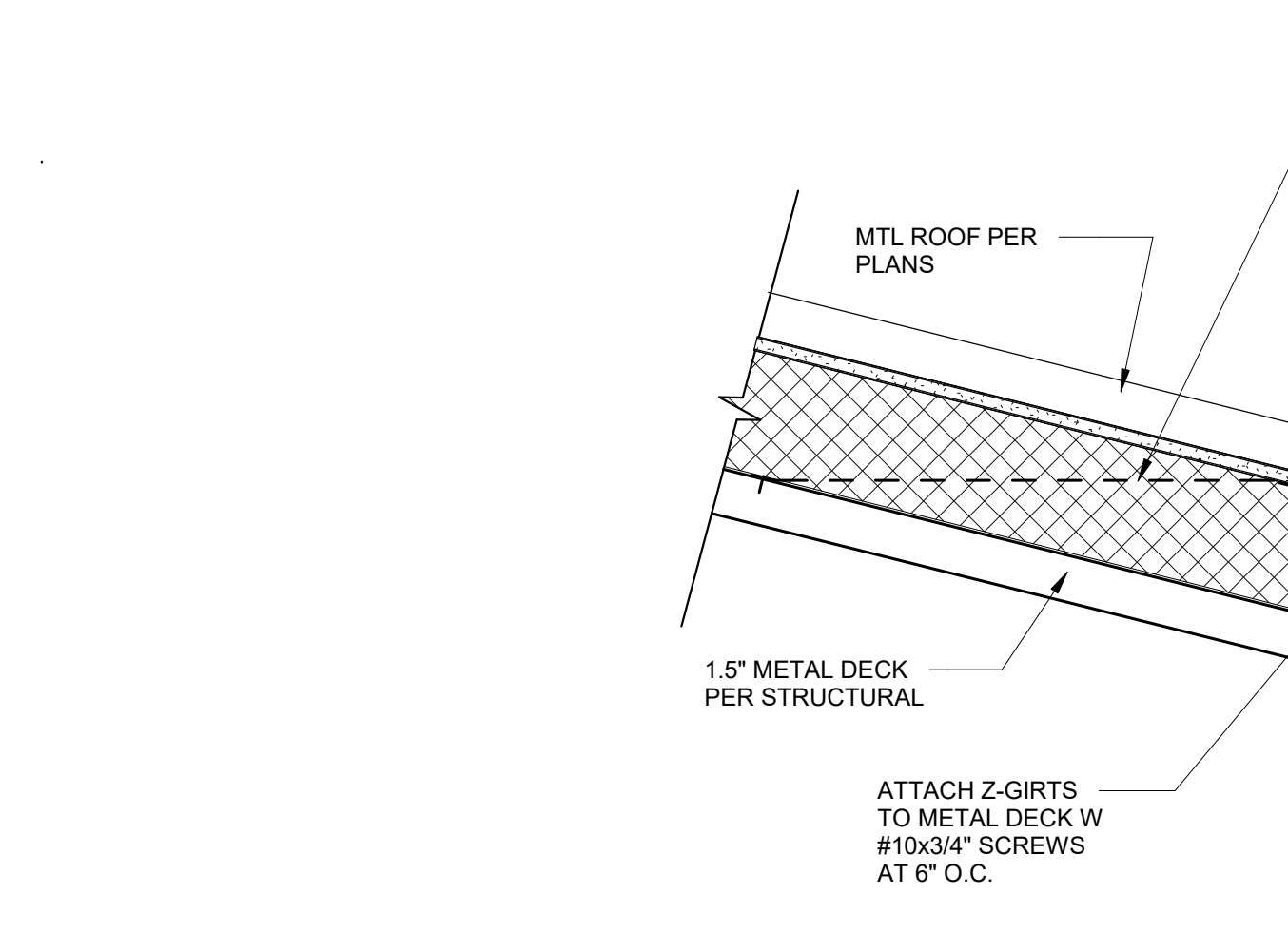
FASCIA PANEL TO SOFFIT FLASHING 3" = 1'-0" 15



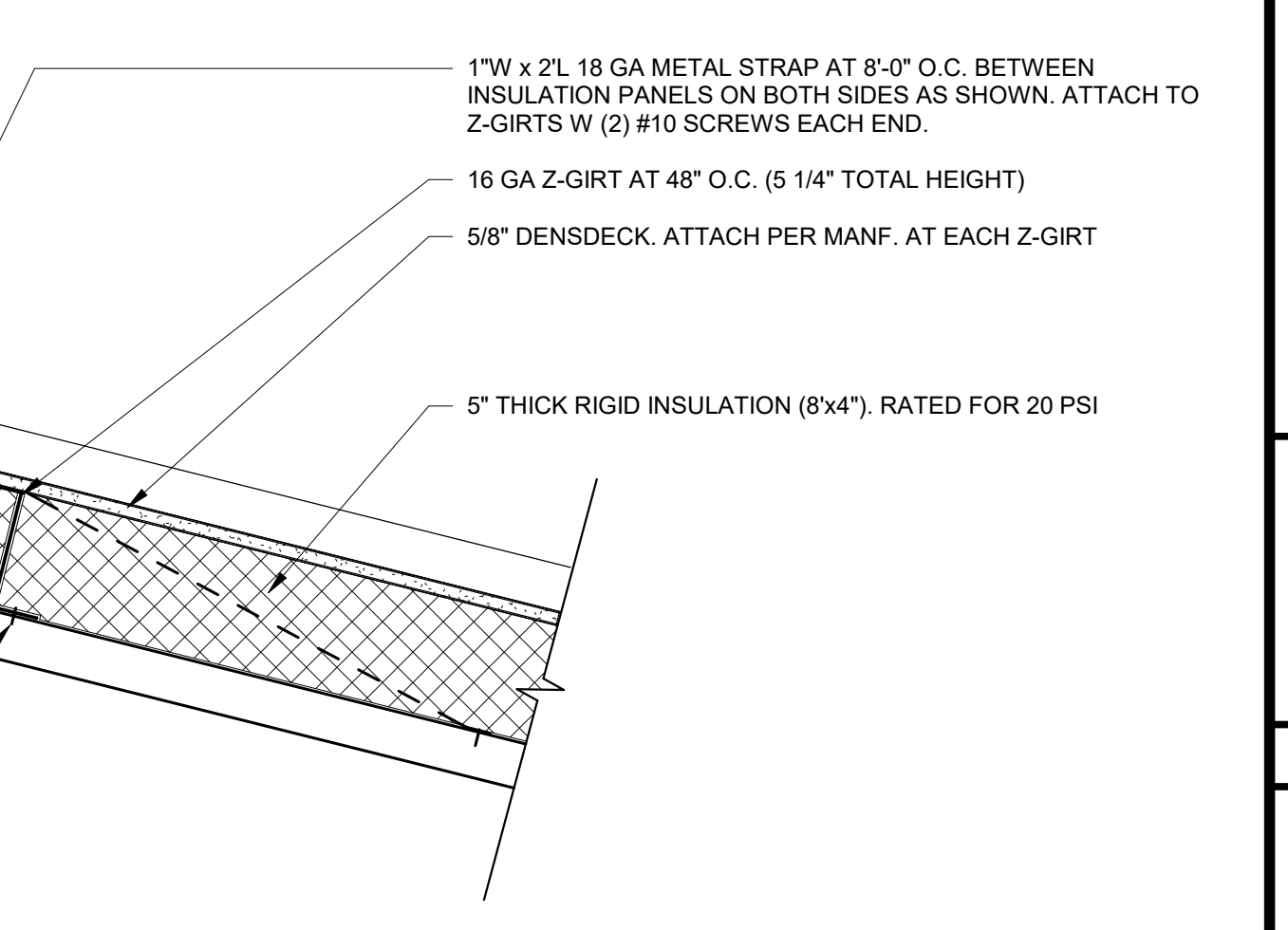
SOFFIT AT WALL - RAKE 3" = 1'-0" 9



SOFFIT AT RAKE 3" = 1'-0" 4



ROOF SECTION 1 1/2" = 1'-0" 5



AGENCY APPROVAL **CSU** 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
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Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: **DS** 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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REVISIONS

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
 1 Grand Avenue
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CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

SHEET TITLE
EXTERIOR & ROOFING DETAILS

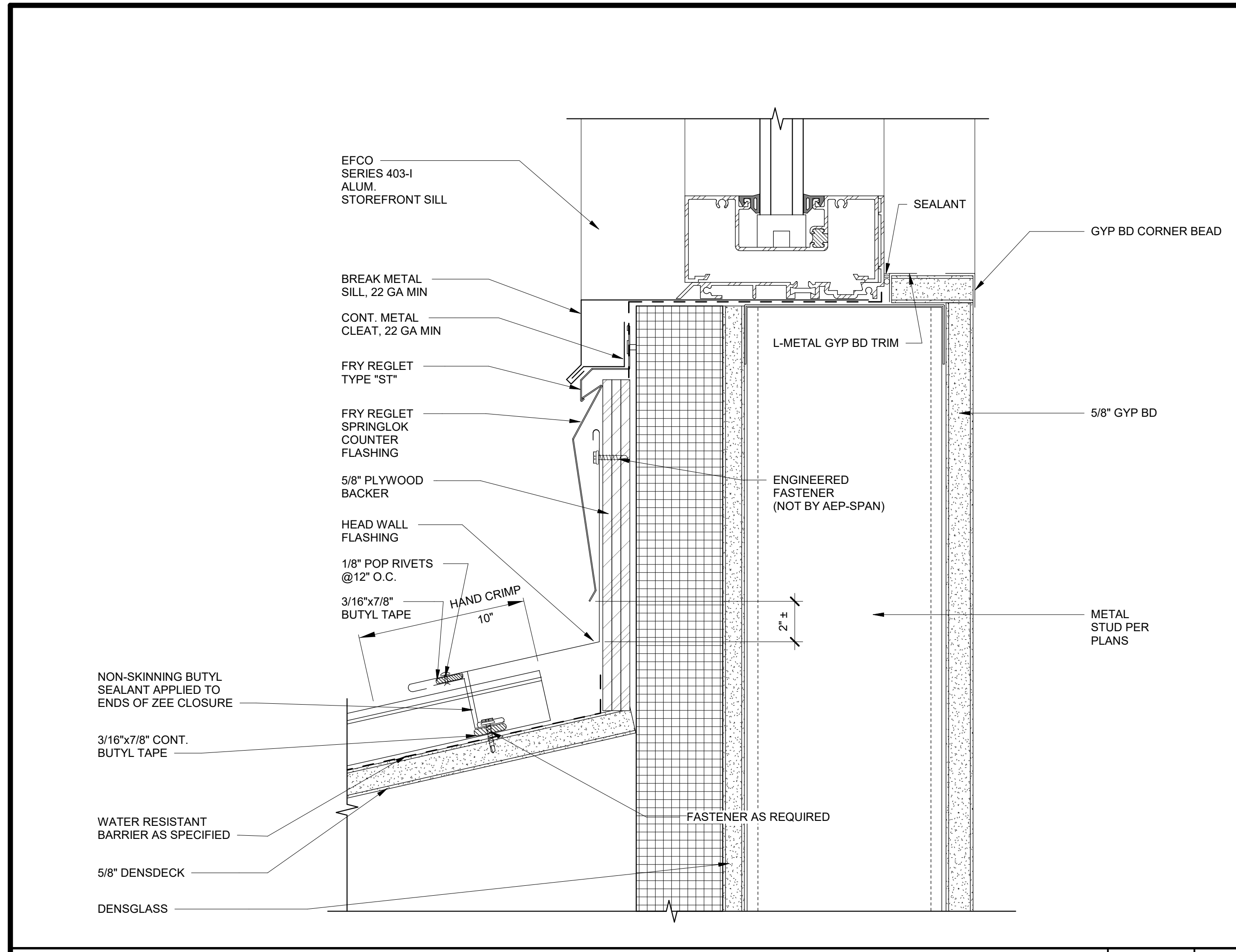
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SHEET NO.
A-702

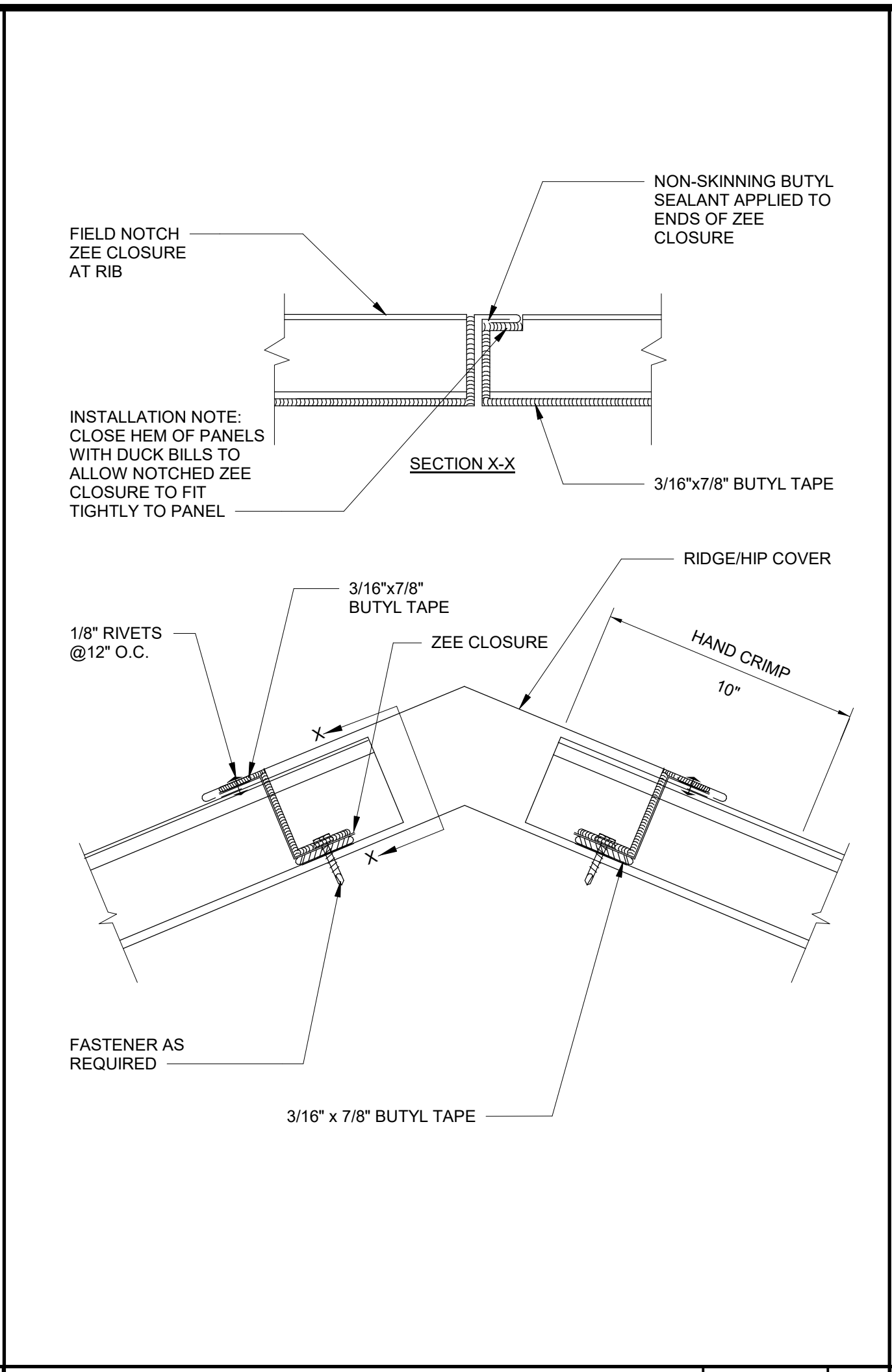
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CONSTRUCTION DOCUMENTS

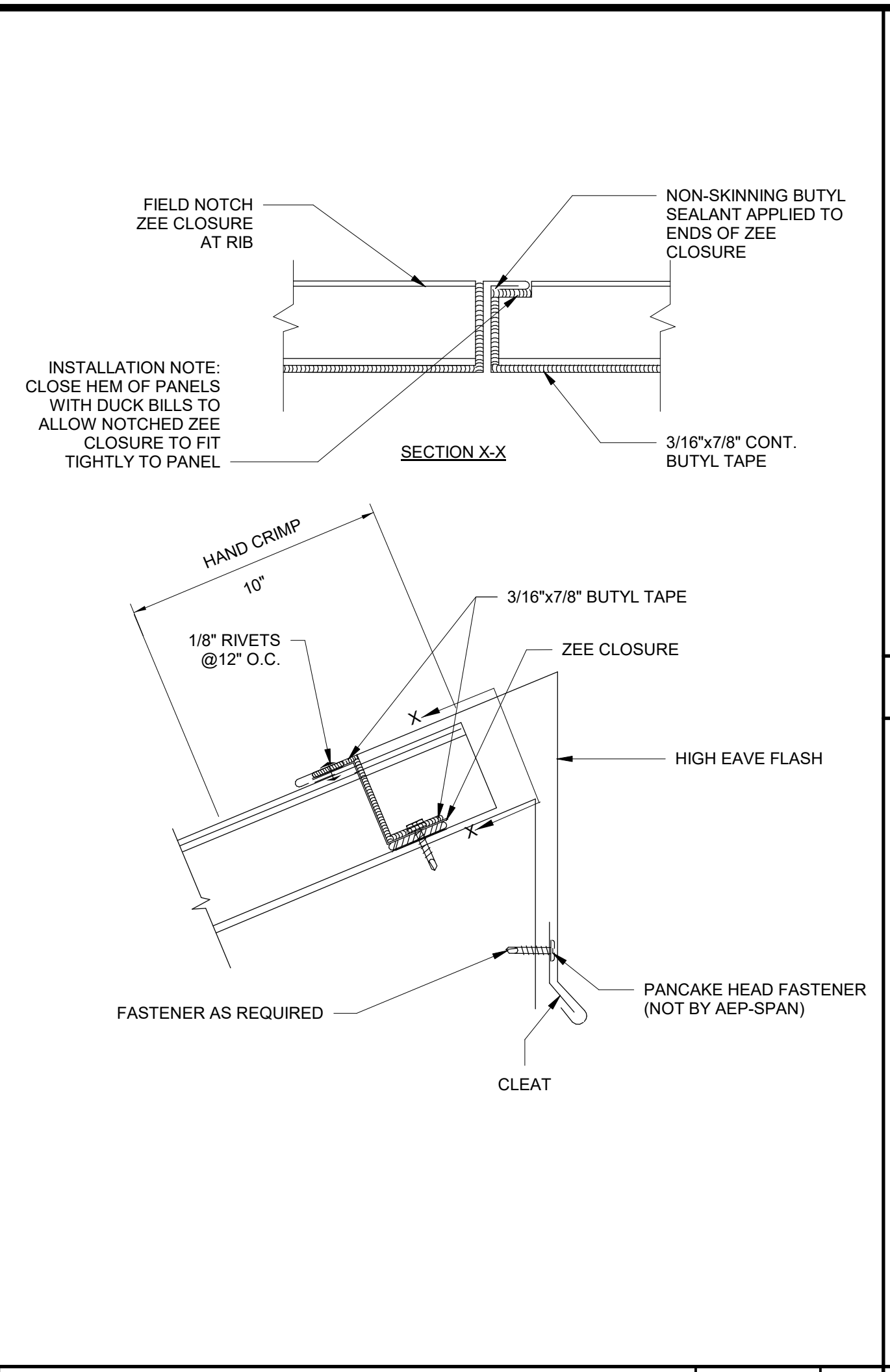
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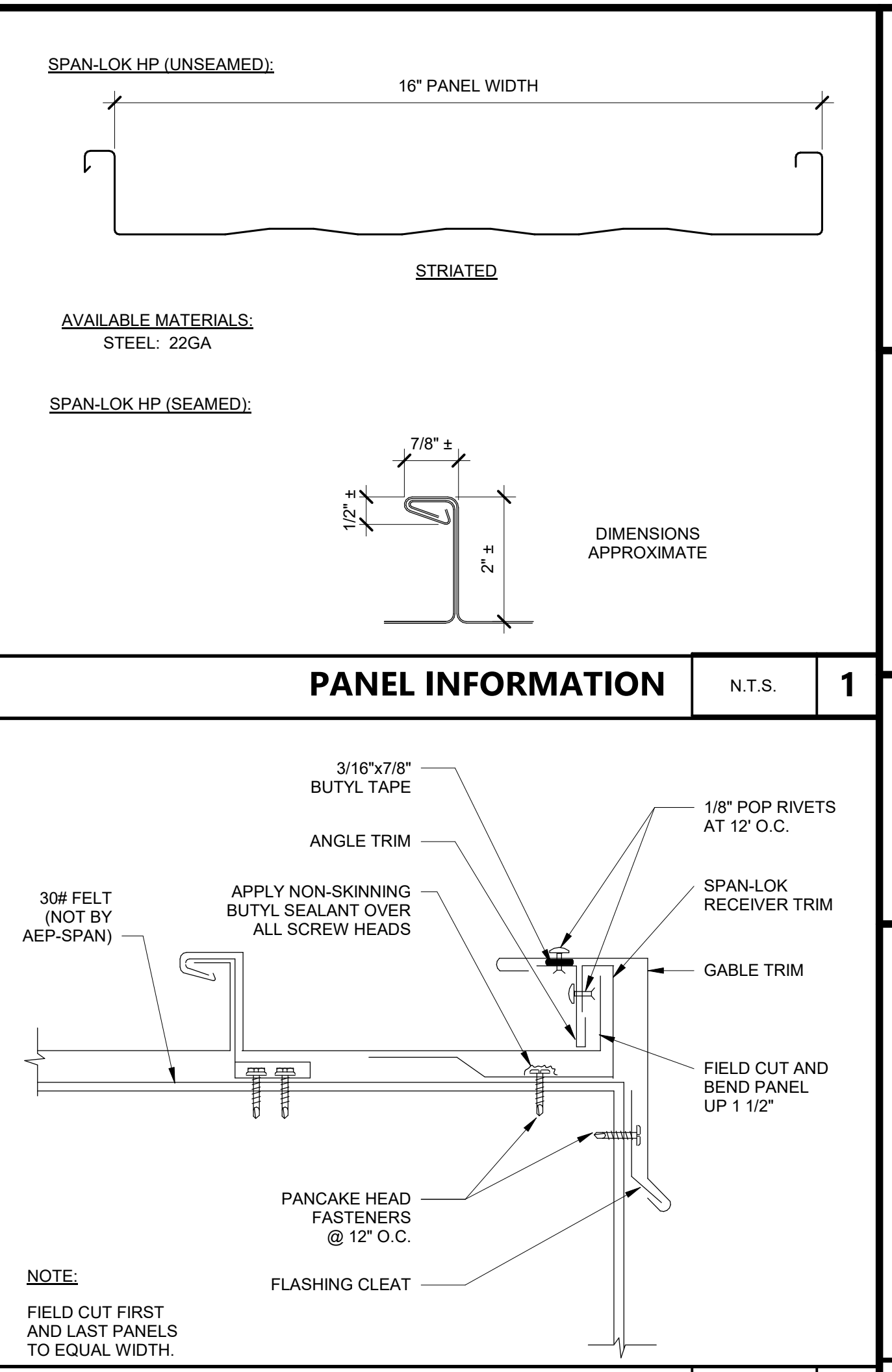
HEAD WALL N.T.S. 17



RIDGE / HIP N.T.S. 12



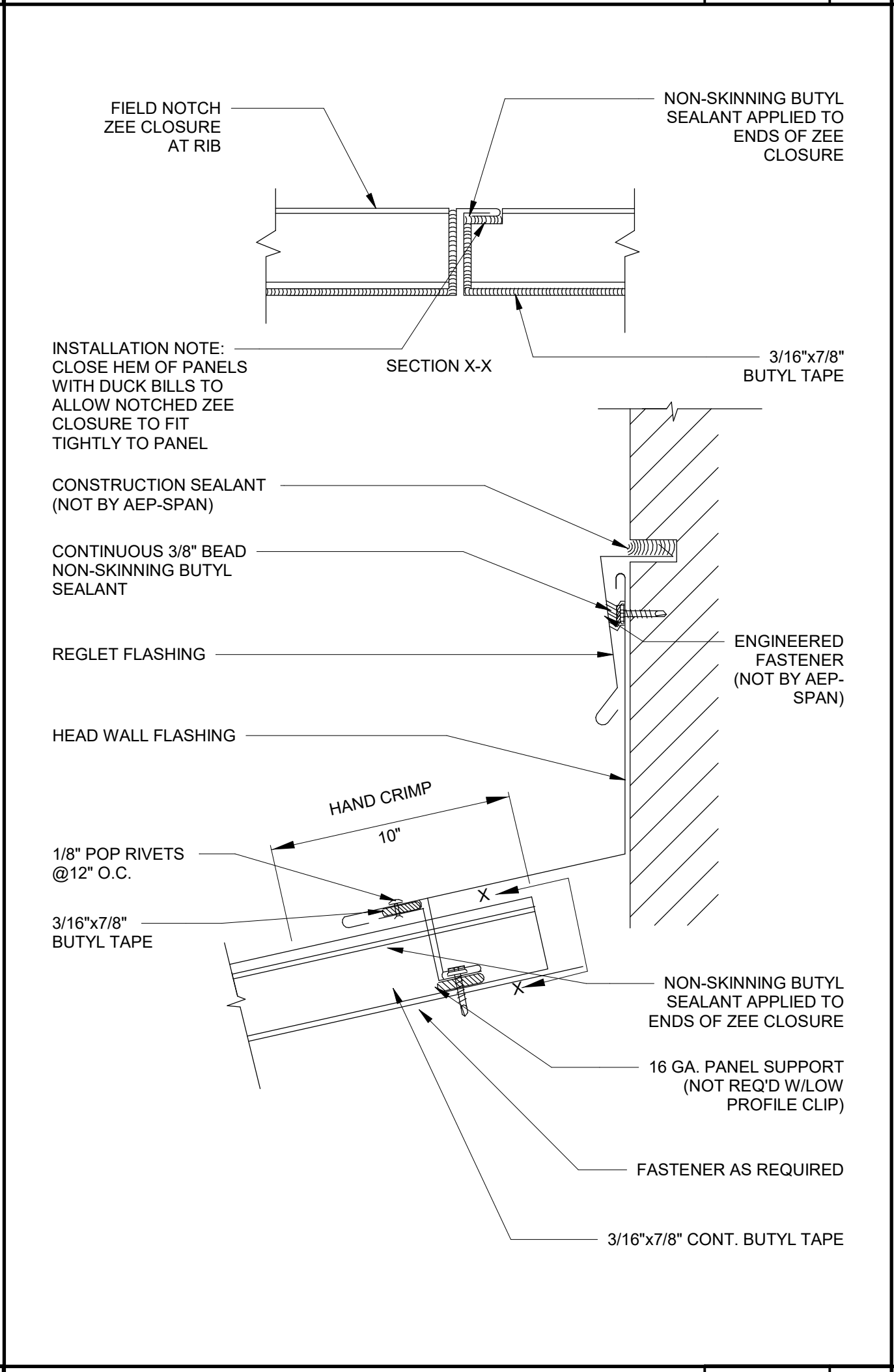
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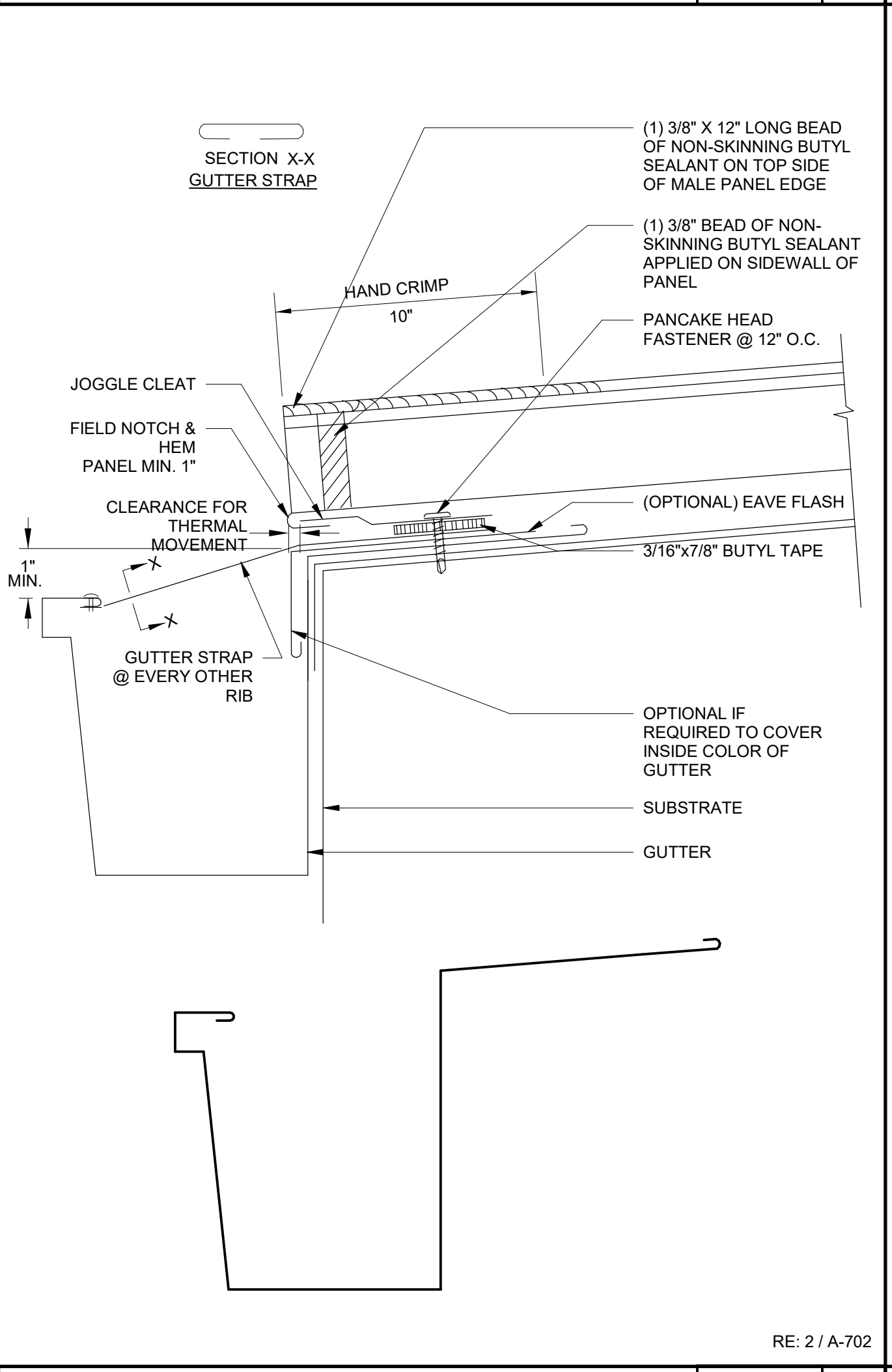
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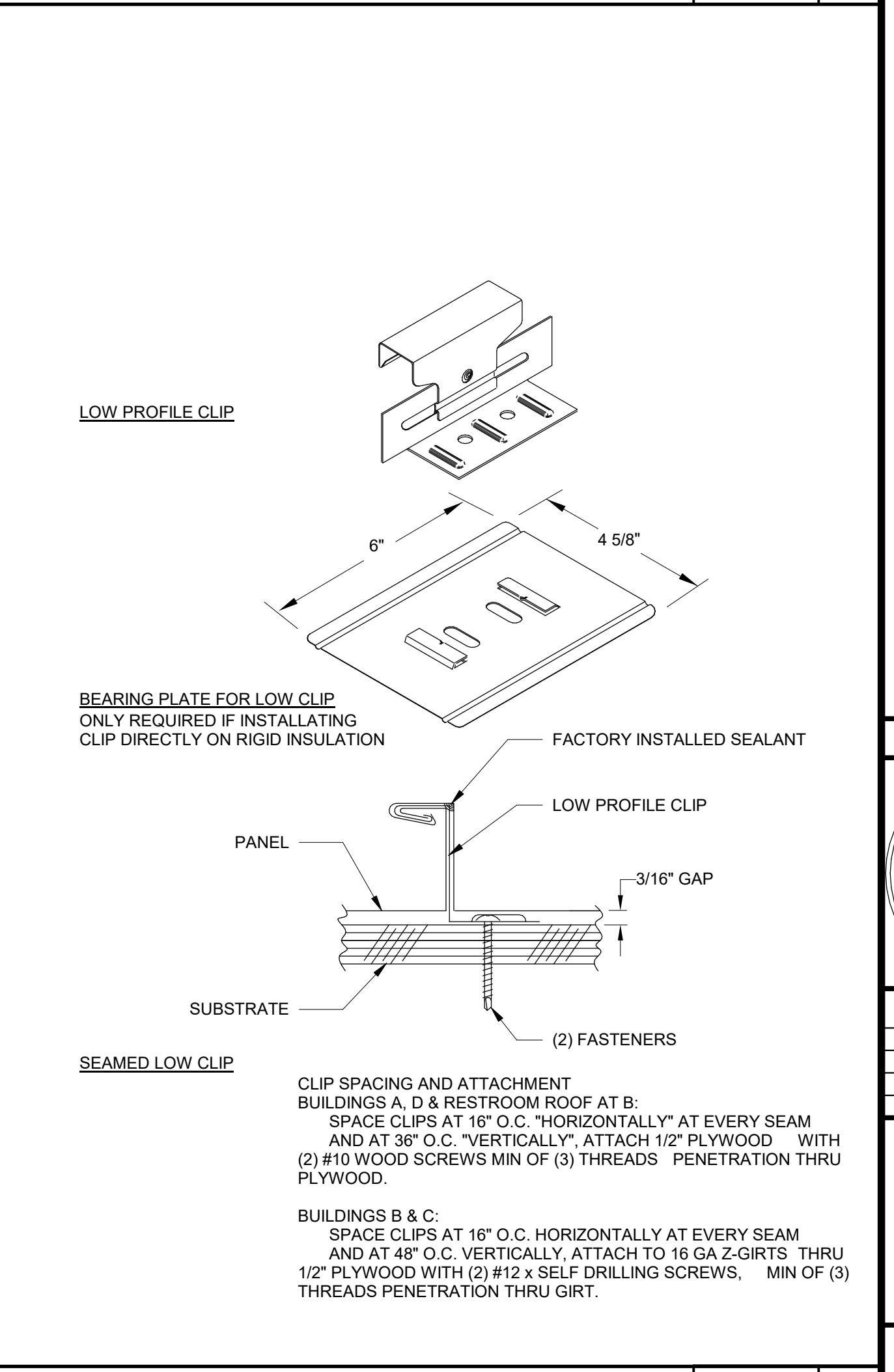
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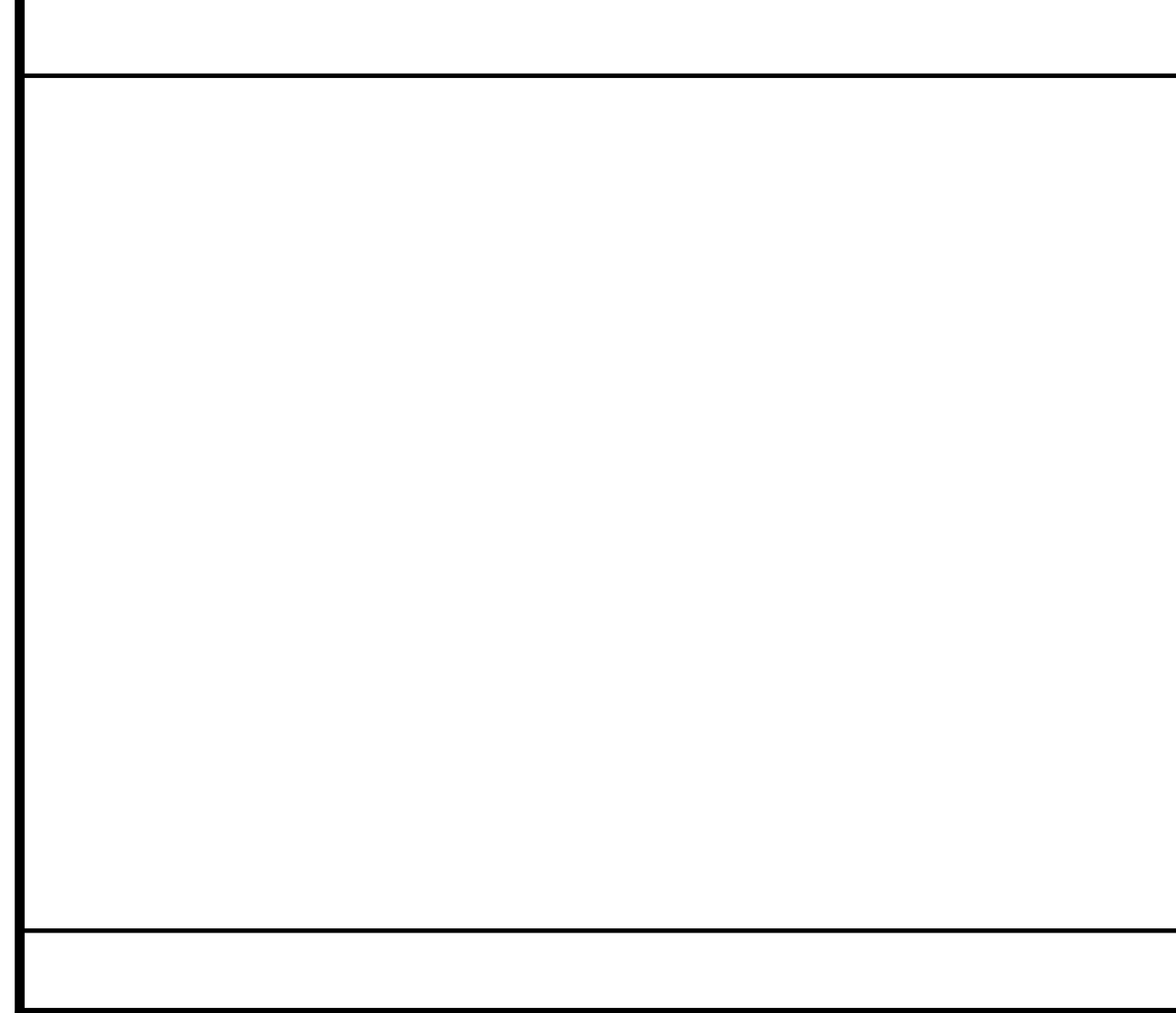
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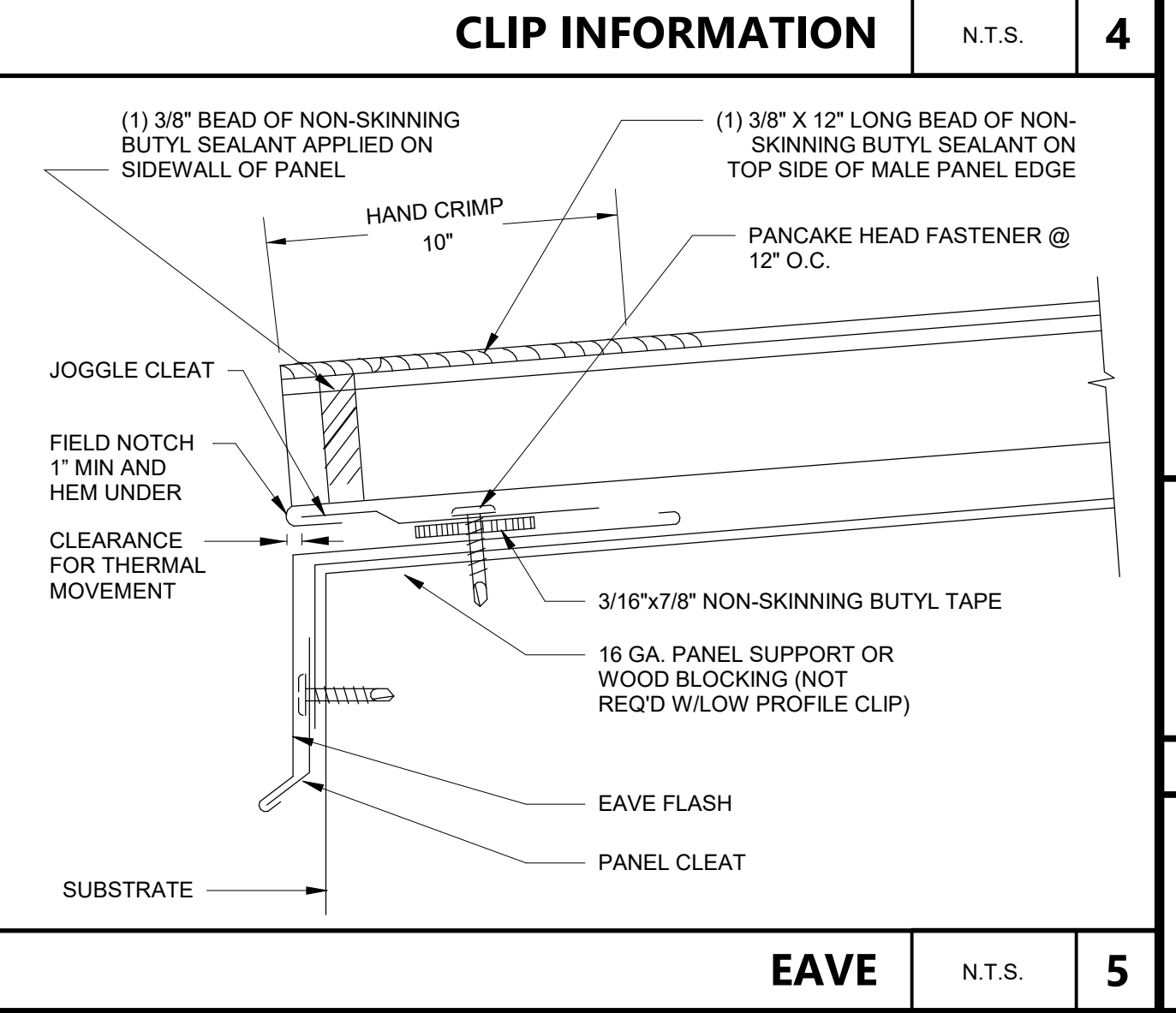
EAVE WITH GUTTER N.T.S. 9



CLIP INFORMATION N.T.S. 4



RAKE WALL N.T.S. 10



EAVE N.T.S. 5

AGENCY APPROVAL **CSU** 03-122864

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ARCHITECT STAMP

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After Strubel
RENEWED 10-31-23
STATE OF CALIFORNIA

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CAL POLY TECH
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San Luis Obispo, CA 93407

SHEET TITLE

ROOFING DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

A-703

DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 2:22:52 PM FILE LOCATION: C:\Users\parmentrout\Documents\21179_01_Calpoly_Design\Build Tech Park_A22_pamentrout.rvt

DOOR SCHEDULE

MARK	PANIC HARDWARE	SIZE		DOOR		FRAME		DETAILS (SEE A-821)			HARDWARE GROUP	FROM:		TO:		ACTION	NOTES		
		WIDTH	HEIGHT	TYPE	MATERIAL	FACING & FINISH	TYPE	MATERIAL	FINISH	HEAD		JAMB	SW	R.M. NUMBER	ROOM NAME			R.M. NUMBER	ROOM NAME
101	P.H.	3'-0"	7'-0"	BB	AL	K	SF	AL	K	12/A-821	13/A-821	5/A-821	101	LOBBY	--	EXTERIOR	RHR / LHR	CARD READER ACCESS, COORD WITH SECURITY SHEETS	
103	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	3/A-821	4/A-821	5/A-821	03	103	ELEV. EQUIP.	--	EXTERIOR	RHR	
104	P.H.	3'-0"	7'-0"	X	HM	SP	A	HM	SP	3/A-821	4/A-821	5/A-821	03	104	CORRIDOR	--	EXTERIOR	RHR	
104A	P.H.	6'-0"	7'-0"	BB	AL	K	SF	AL	K	12/A-821	13/A-821	5/A-821	04	104	CORRIDOR	--	EXTERIOR	RHR / LHR	CARD READER ACCESS, COORD WITH SECURITY SHEETS
106	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	2/A-821	2/A-821	9/A-821	05	106	VESTIBULE	--	EXTERIOR	LH	ALL GENDER SHOWER
107	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	06	107	VESTIBULE	--	EXTERIOR	RH	MEN'S
108	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	06	108	VESTIBULE	--	EXTERIOR	RH	WOMEN'S
109	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	05	109	VESTIBULE	--	EXTERIOR	RH	ALL GENDER
110	-	11'-0"	10'-0"	D	STL	SP	--	STL	SP	17/A-821	18/A-821	19/A-821	07	110	TENANT SPACE	--	EXTERIOR	OH	
110A	-	11'-0"	10'-0"	D	STL	SP	--	STL	SP	17/A-821	18/A-821	19/A-821	07	110	TENANT SPACE	--	EXTERIOR	OH	
110B	-	3'-0"	7'-0"	C	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	08	110	TENANT SPACE	--	EXTERIOR	RH	
110C	-	3'-0"	7'-0"	C	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	08	104	CORRIDOR	--	EXTERIOR	LH	TENANT SPACE
111	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	09	111	MAIN TELECOM	--	EXTERIOR	LHR	
112	P.H.	3'-0"	7'-0"	A	HM	SP	A	HM	SP	3/A-821	4/A-821	5/A-821	10	112	ELECTRICAL	--	EXTERIOR	LHR	
112A	P.H.	3'-0"	7'-0"	A	HM	SP	A	HM	SP	3/A-821	4/A-821	5/A-821	10	112	ELECTRICAL	--	EXTERIOR	RHR	
113	-	3'-0"	7'-0"	B	AL	K	SF	AL	K	6/A-821	8/A-821	9/A-821	19	104	CORRIDOR	--	EXTERIOR	RH	PROGRAM SUPPORT
113A	-	3'-0"	7'-0"	C	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	20	104	CORRIDOR	--	EXTERIOR	LH	CARD READER ACCESS, COORD WITH SECURITY SHEETS
114	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	12	104	CORRIDOR	--	EXTERIOR	RH	
115	-	3'-0"	7'-0"	C	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	13	104	CORRIDOR	--	EXTERIOR	RH	SMALL CONFERENCE
116	-	3'-0"	7'-0"	C	WD	WS	B	HM	SP	1/A-821	1/A-821	9/A-821	13	116	OFFICE	--	EXTERIOR	LH	PROGRAM SUPPORT
117	-	3'-0"	7'-0"	C	WD	WS	B	HM	SP	1/A-821	1/A-821	9/A-821	13	117	OFFICE	--	EXTERIOR	LH	PROGRAM SUPPORT
118	-	3'-0"	7'-0"	C	WD	WS	B	HM	SP	1/A-821	1/A-821	9/A-821	13	118	OFFICE	--	EXTERIOR	RH	PROGRAM SUPPORT
119	-	3'-0"	7'-0"	A	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	20	104	CORRIDOR	--	EXTERIOR	RH	STUDIO
120	-	3'-0"	7'-0"	B	AL	K	SF	AL	K	6/A-821	8/A-821	9/A-821	14	120	FLEXIBLE CLASSROOM	--	EXTERIOR	LH	CARD READER ACCESS, COORD WITH SECURITY SHEETS
121	-	3'-0"	7'-0"	B	AL	K	SF	AL	K	6/A-821	8/A-821	9/A-821	15	121	CONFERENCE	--	EXTERIOR	LH	CORRIDOR
122	-	3'-0"	7'-0"	C	WD	WS	A	HM	SP	1/A-821	1/A-821	9/A-821	11	104	CORRIDOR	--	EXTERIOR	LH	KITCHEN / BREAK
122A	-	3'-0"	7'-0"	B	AL	K	SF	AL	K	12/A-821	13/A-821	5/A-821	16	122	KITCHEN / BREAK	--	EXTERIOR	RHR	
201	P.H.	3'-0"	7'-0"	B	AL	K	SF	AL	K	12/A-821	13/A-821	5/A-821	17	201	LOBBY	--	EXTERIOR	RHR	CARD READER ACCESS, COORD WITH SECURITY SHEETS
205	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	2/A-821	2/A-821	9/A-821	05	205	VESTIBULE	--	EXTERIOR	LH	ALL GENDER SHOWER
206	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	06	206	VESTIBULE	--	EXTERIOR	RH	MEN'S
207	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	06	204	VESTIBULE	--	EXTERIOR	LH	WOMEN'S
208	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	05	204	VESTIBULE	--	EXTERIOR	RH	ALL GENDER
209	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	18	209	CUSTODIAN CLOSET	--	EXTERIOR	RHR	TENANT SPACE
210	P.H.	6'-0"	7'-0"	BB	AL	K	SF	AL	K	12/A-821	13/A-821	5/A-821	04	210	TENANT SPACE	--	EXTERIOR	RHR / LHR	CARD READER ACCESS, COORD WITH SECURITY SHEETS
211	-	3'-0"	7'-0"	A	HM	SP	A	HM	SP	1/A-821	1/A-821	9/A-821	12	209	CUSTODIAN CLOSET	--	EXTERIOR	RH	ELECTRICAL ROOM

DOOR NOTES

- DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
- SEE REMARKS SECTION OF DOOR SCHEDULE FOR GLASS TYPES.
- ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
 - EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
 - HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE BETWEEN 34" MIN. AND 44" MAX. ABOVE FINISH FLOOR.
 - DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
 - ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).
 - ALL FIRE DOOR LABELS SHALL COMPLY WITH CBC 716.2.9.
- FIRE ASSEMBLIES REQUIRED TO HAVE A ONE-HOUR FIRE-PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF-CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTIVATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
- ALL FIRE-RESISTIVE ASSEMBLIES FOR PROTECTED OPENING SHOULD COMPLY WITH SECTION 716.6.CC.
- SEE SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INDEX AND DOOR HARDWARE SETS.
- EXTERIOR STEEL CRAFT "L" SERIES 18 GA HONEYCOMB CORE OR "S" OR "A" SERIES 18 GA TUBULAR FOR FULL GLASS, GALVANIZED WITH GALVANIZED 14 GA FRAMES. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
- INTERIOR STEEL DOORS: STEEL CRAFT "L" SERIES HONEYCOMB CORE, OR "S" OR "A" SERIES FOR FULL GLASS, 18 GA WITH 16 GA FRAMES. USE KNOCKDOWN FRAMES AT INTERIORS. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
- ALL INTERIOR HOLLOW METAL DOOR AND FRAMES TO HAVE JAMB AND HEAD GASKETING, PEMCO 319 OR EQUAL.
- ALL INTERIOR STOREFRONT FRAMES SHOULD PROVIDE GASKETING FOR THE HOLLOW METAL DOORS PER THE DETAILS.
- PROVIDE ACCESS CONTROL WIRING AND DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
- PROVIDE DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
- SEE SHEET A-252 FOR SIGNAGE PLAN.
- ALL DOOR AND HARDWARE MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND WITH THE CAL POLY CAMPUS STANDARD SPECIFICATIONS DIVISION 08 - OPENINGS

AGENCY APPROVAL **CSU** 03-122884



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SANTA MARIA, CA 92103
TEL (760) 220-6811
 - STRUCTURAL ENGINEER**
1916 STRUCTURAL DIVISION
1119 GARDEN STREET
SANTA BARBARA, CA 93101
TEL (805) 963-1210
 - M.E.P. ENGINEER**
ALFATECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
TEL (626) 803-0005
 - FIRE PROTECTION ENGINEER**
ALPHA FIRE UNLIMITED
650 SWEENEY LANE
SAN LUIS OBISPO, CA 93401
TEL (805) 541-2527
 - FIRE ALARM ENGINEER**
DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR, SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324

DOOR LEGEND

- DOOR CONSTRUCTION AND MATERIAL:**
HM - HOLLOW METAL
AL - ALUMINUM
STL - STEEL
- DOOR FACING AND FINISH:**
SP - STEEL, PAINTED
K - KYNAR FINISH ON ALUMINUM
WD - WOOD
WS - WOOD STAIN
- FRAME MATERIAL:**
HM - HOLLOW METAL
AL - ALUMINUM
- FRAME FINISH:**
SP - PAINTED STEEL
K - KYNAR FINISH ON ALUMINUM
- FRAME TYPES:**
A, B (SEE SCHEDULE, SHEET A-801)
SF - STOREFRONT (SEE ALUMINUM STOREFRONT WINDOW SCHEDULE, SHEET A-811)
- GLASS:**
ALL GLASS IN DOORS OR SIDE LITES IS TEMPERED (SG - SAFETY GLAZING)
- HARDWARE:**
P.H. - PANIC HARDWARE
- ACTION:**
RH - RIGHT HAND OH - OVERHEAD DOOR
LH - LEFT HAND
RHR - RIGHT HAND REVERSE
LHR - LEFT HAND REVERSE

DOOR GLAZING NOTES

- ALL GLAZING SHALL BE TEMPERED 1/4" CLEAR GLASS UNLESS DOOR IS FIRE-RATED. THEN SAFETY GLAZING SHALL MEET CURRENT FEDERAL STANDARDS WHERE GLAZING OCCURS IN RATED DOOR ASSEMBLY. (WIRE GLASS IS NOT ACCEPTABLE)
- RATED GLAZING NOTES:
 - FIRE-RESISTANCE-RATED GLAZING SHALL BE PERMITTED IN FIRE DOOR AND FIRE WINDOW ASSEMBLIES WHERE TESTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND WHERE IN COMPLIANCE WITH THE REQUIREMENTS OF CBC SECTION 716.3.
 - CBC 716.3 MARKING FIRE-RATED GLAZING ASSEMBLIES: FIRE-RATED ASSEMBLIES SHALL BE MARKED IN ACCORDANCE WITH TABLES 716.3, 716.5, AND 716.6.
 - CBC 716.3.1 FIRE-RATED GLAZING IDENTIFICATION: FOR FIRE-RATED GLAZING, THE LABEL SHALL BEAR THE IDENTIFICATION REQUIRED IN TABLES 716.3 AND 716.5. "D" INDICATES THAT THE GLAZING IS PERMITTED TO BE USED IN FIRE DOOR ASSEMBLIES AND THAT THE GLAZING MEETS THE FIRE PROTECTION REQUIREMENTS OF NFPA 252. "H" SHALL INDICATE THAT THE GLAZING MEETS THE HOSE STREAM REQUIREMENTS OF NFPA 252. "T" SHALL INDICATE THAT THE GLAZING MEETS THE TEMPERATURE REQUIREMENTS OF SECTION 716.5.1. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
 - CBC 716.3.2 FIRE-PROTECTION-RATED GLAZING IDENTIFICATION: FOR FIRE-PROTECTION-RATED GLAZING, THE LABEL SHALL BEAR THE FOLLOWING IDENTIFICATION REQUIRED IN TABLES 716.3 AND 716.6: "OH-XXX", "OB" INDICATES THAT THE GLAZING MEETS BOTH THE FIRE PROTECTION AND THE HOSE-STREAM REQUIREMENTS OF NFPA 257 OR UL 9 AND IS PERMITTED TO BE USED IN FIRE WINDOW OPENINGS. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
 - FIRE BARRIER: 3/4 HOUR GLAZING, MAX SIZE TESTED, MARKED D-H
 - NFPA 257 OR UL 9 MEETS FIRE WINDOW ASSEMBLY CRITERIA INCLUDING THE HOSE STREAM TEST
 - NFPA 252 OR UL 10B OR UL 10C D = MEETS FIRE DOOR ASSEMBLY CRITERIA. H = MEETS FIRE DOOR ASSEMBLY HOSE STREAM TEST
 - RATED GLAZING SHALL BE FIRELITE NT

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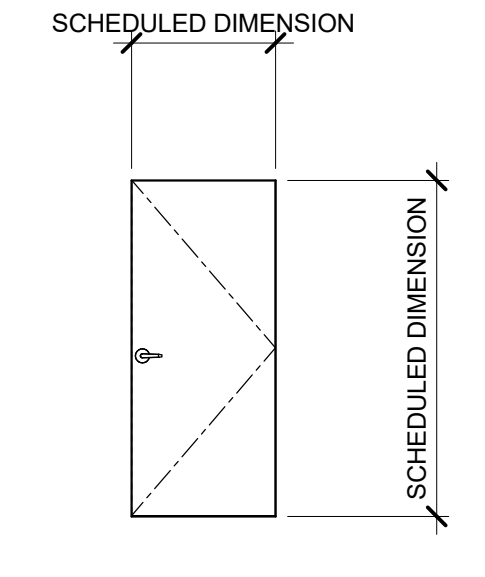
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CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

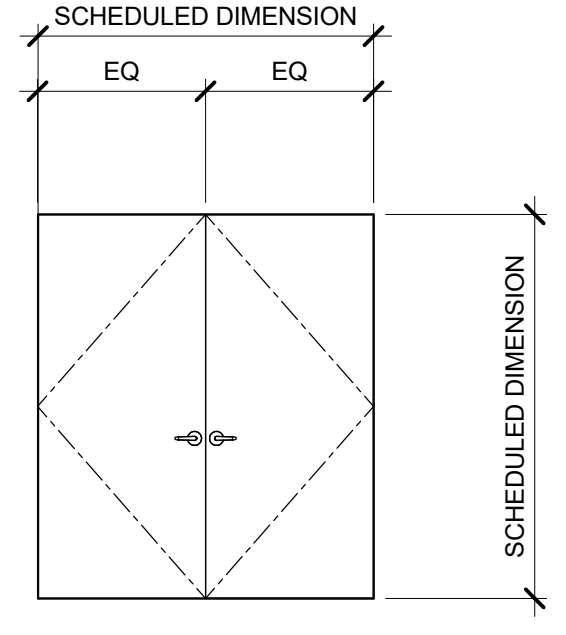
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SHEET NO.

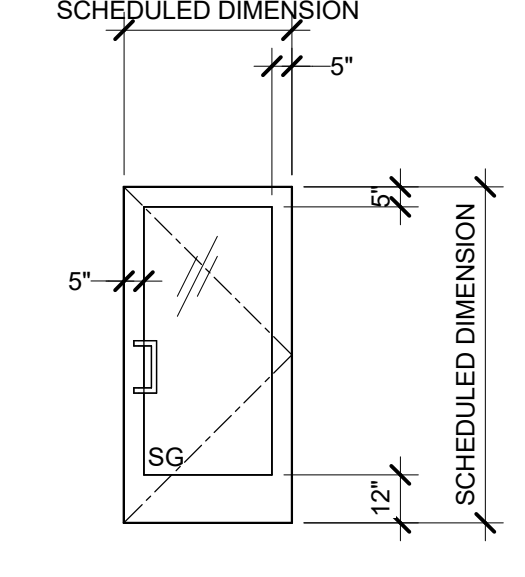
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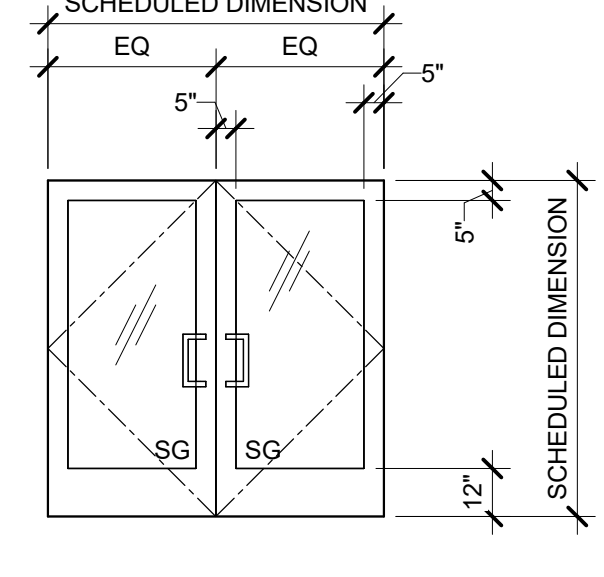
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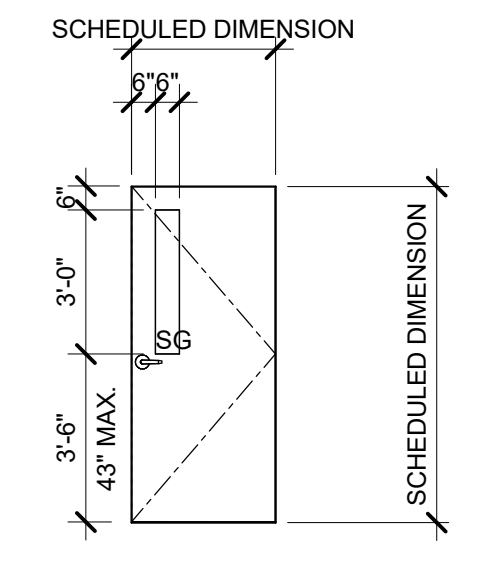
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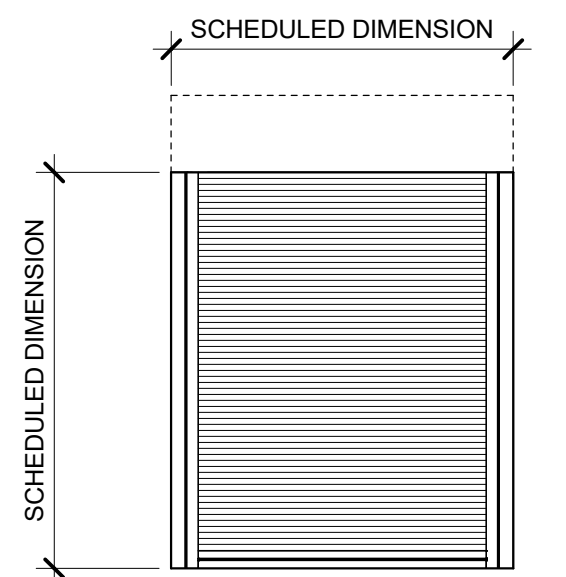
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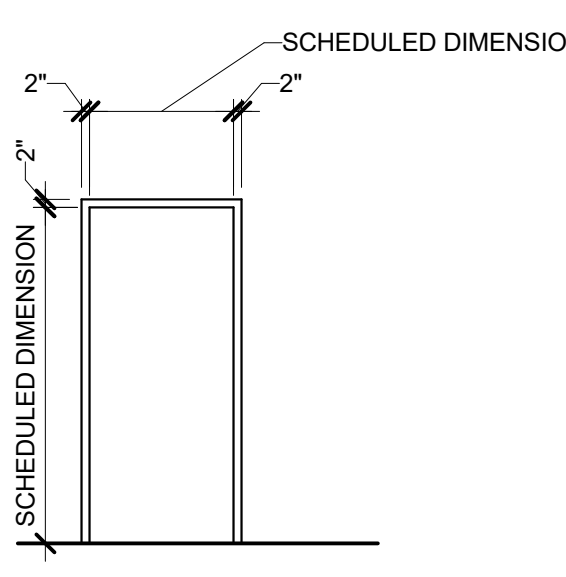
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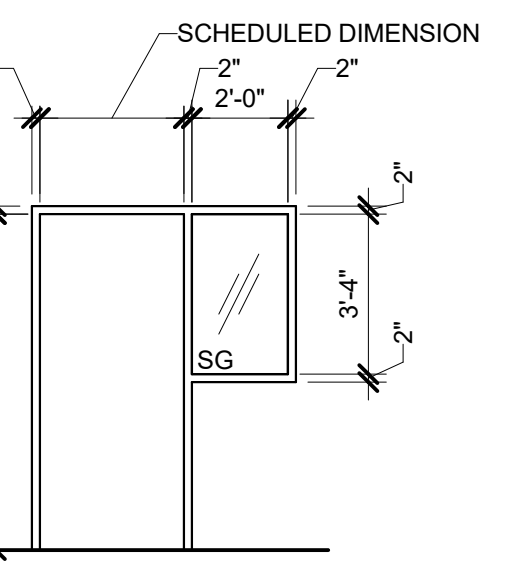
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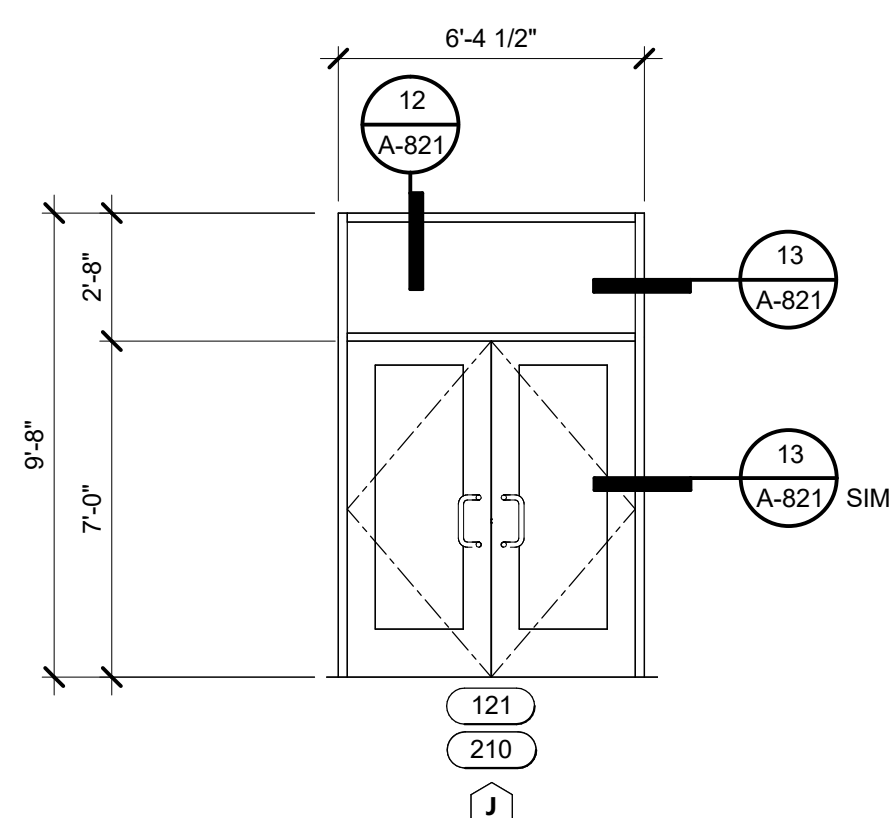
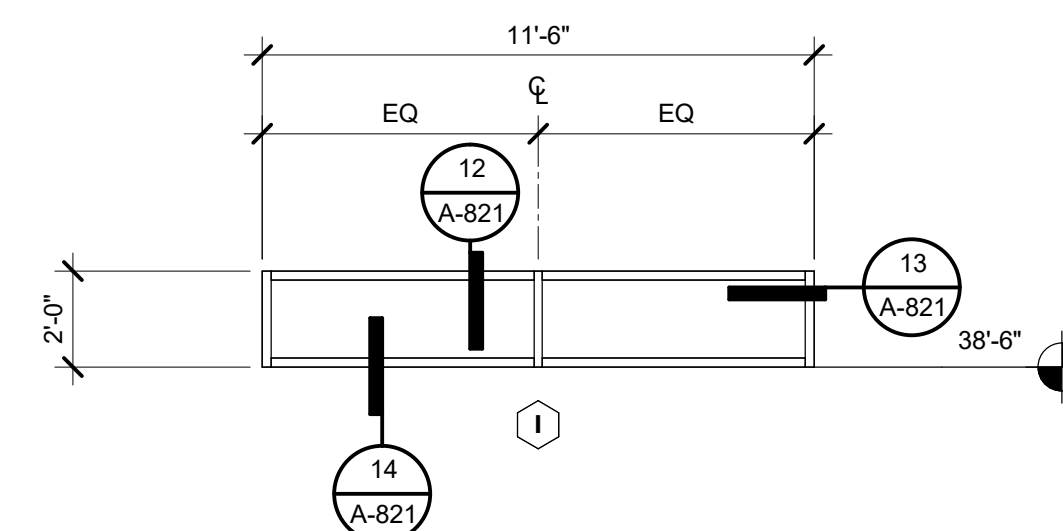
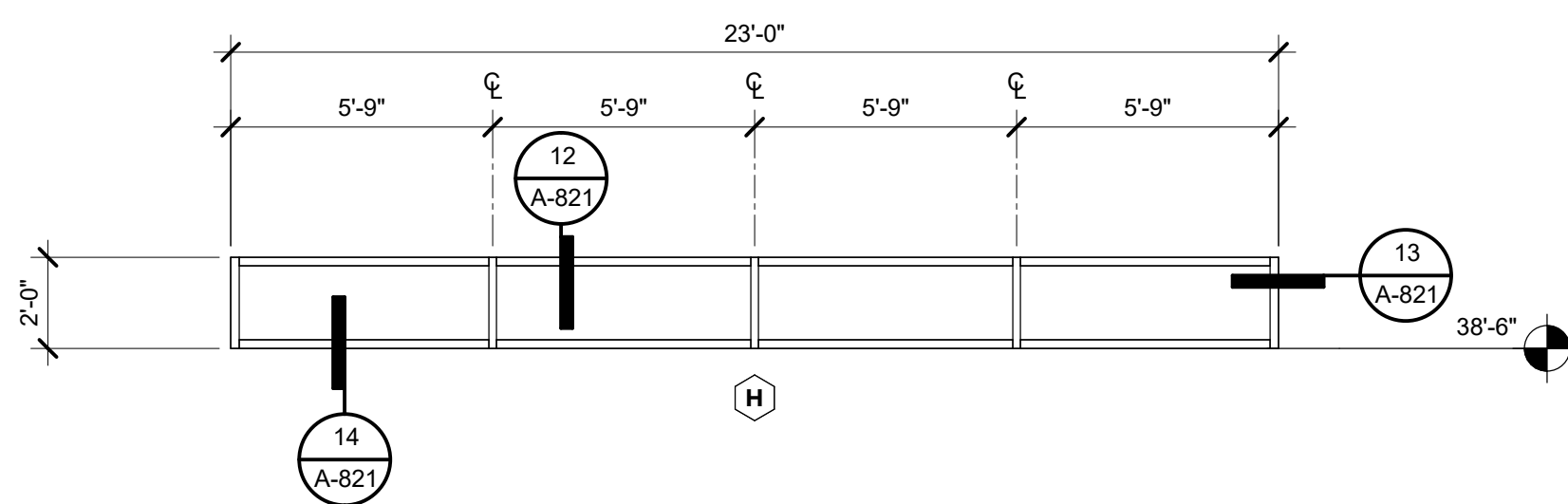
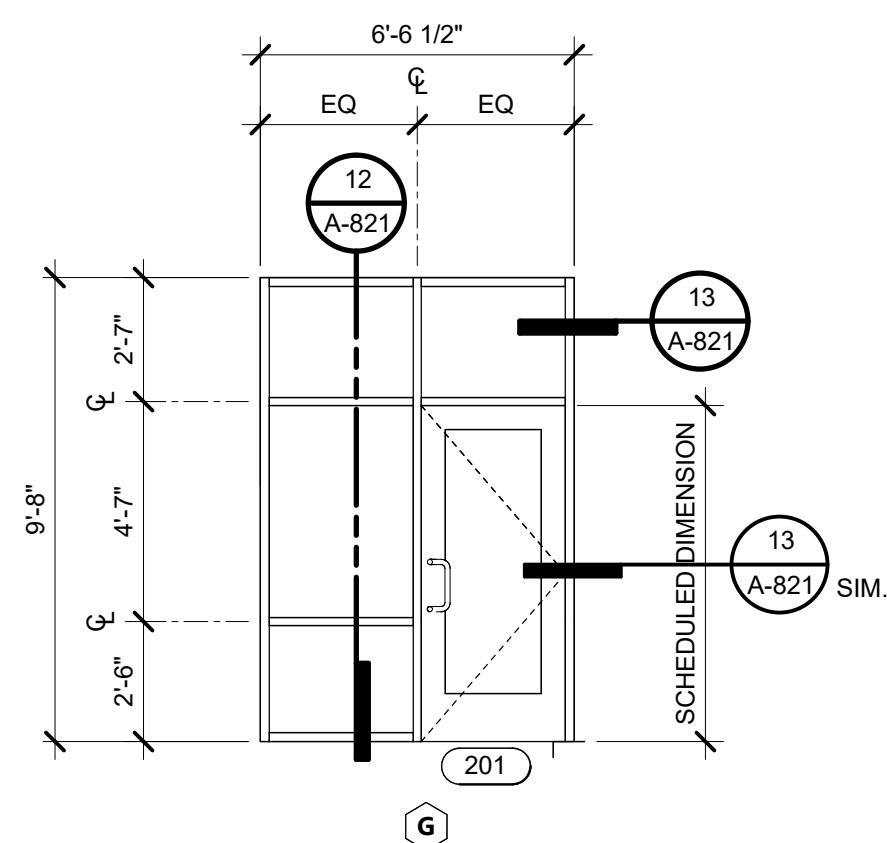
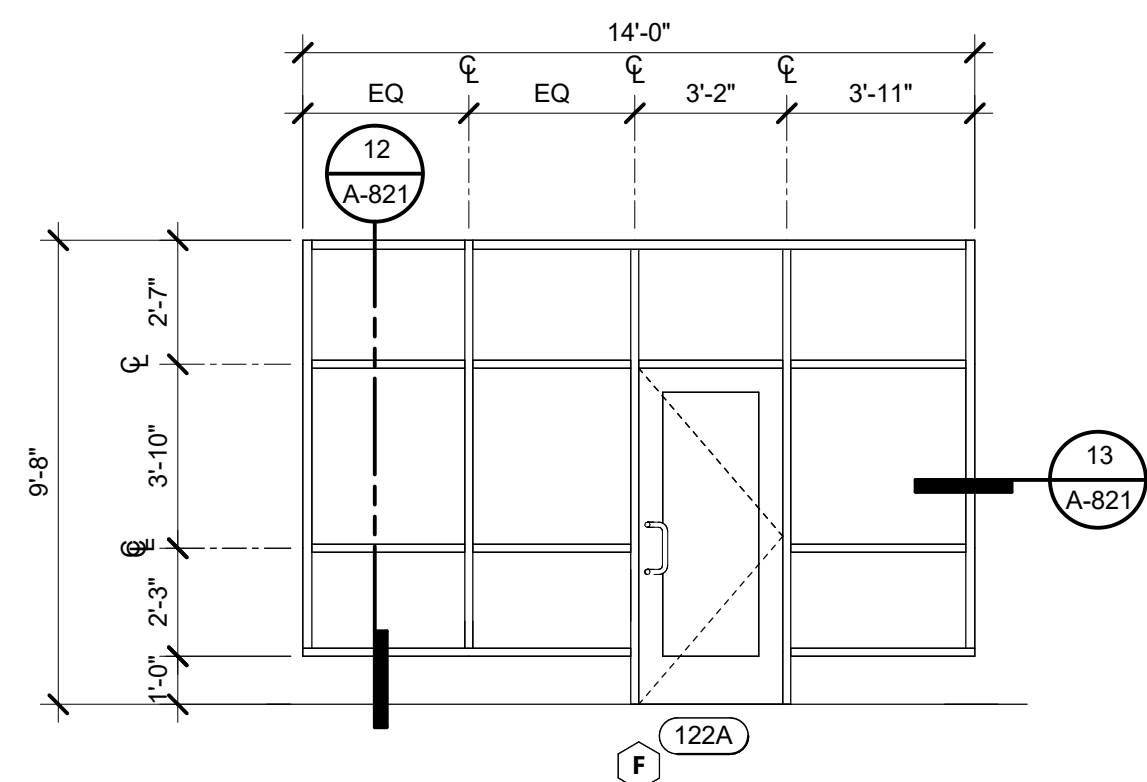
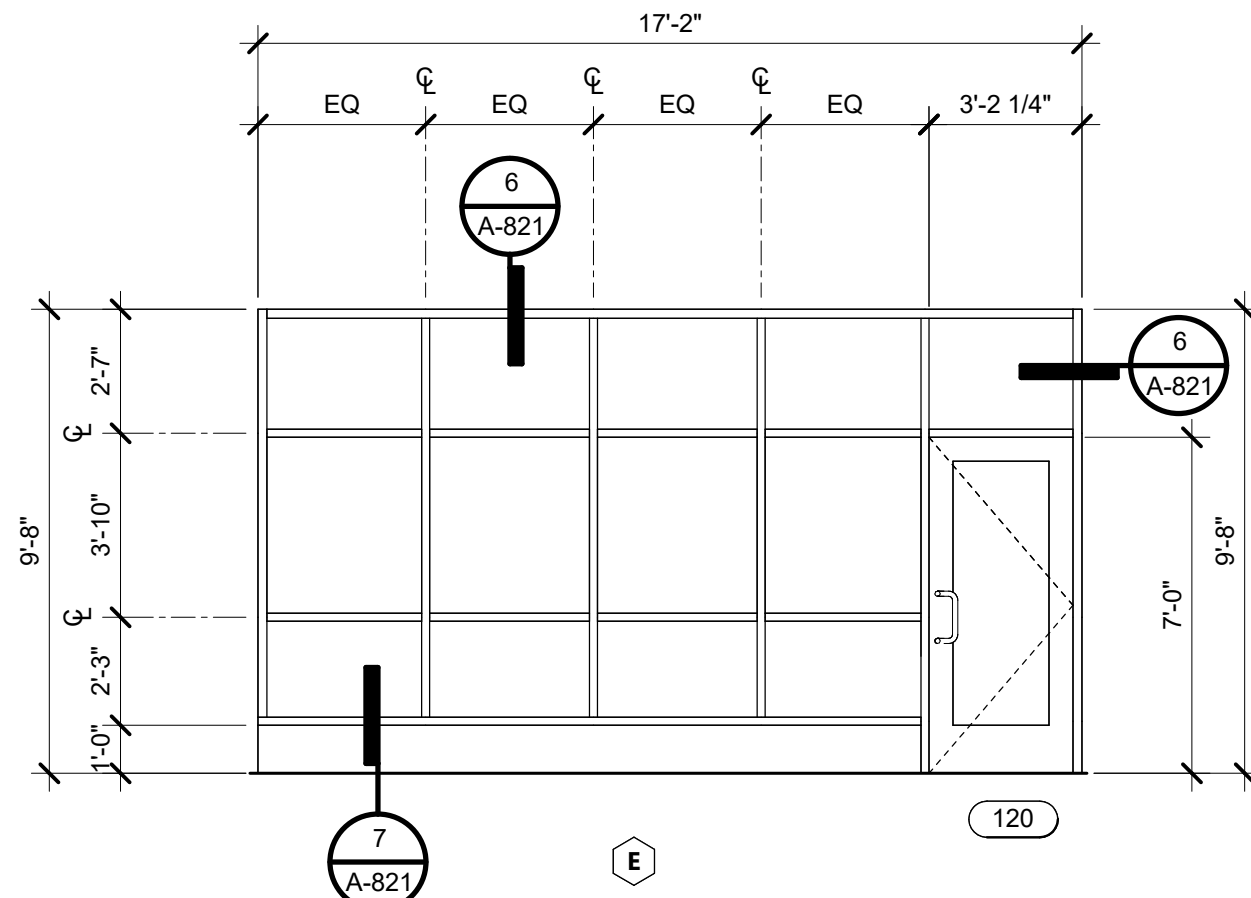
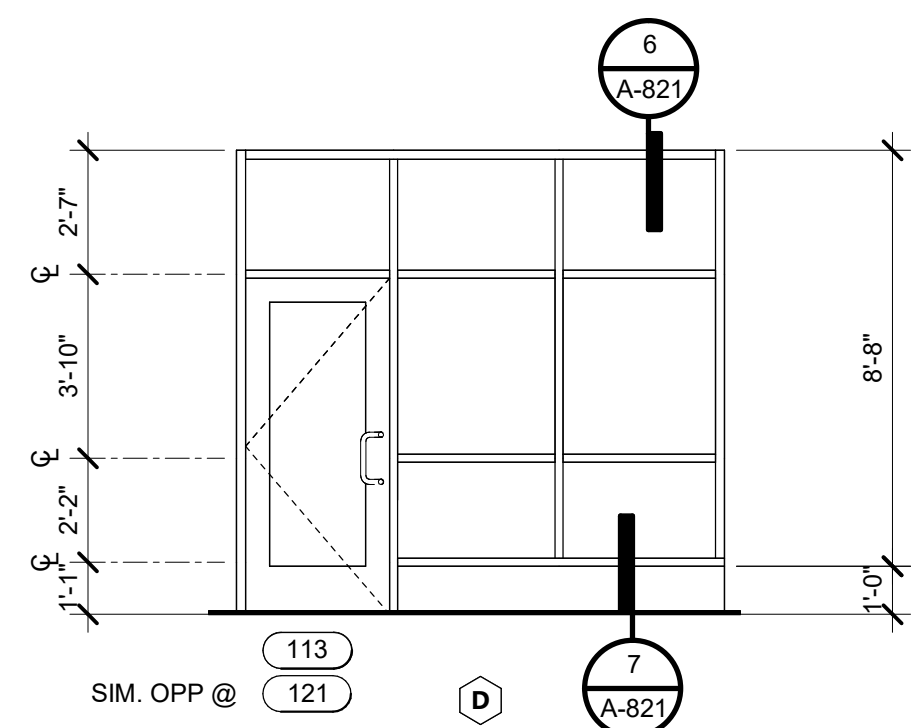
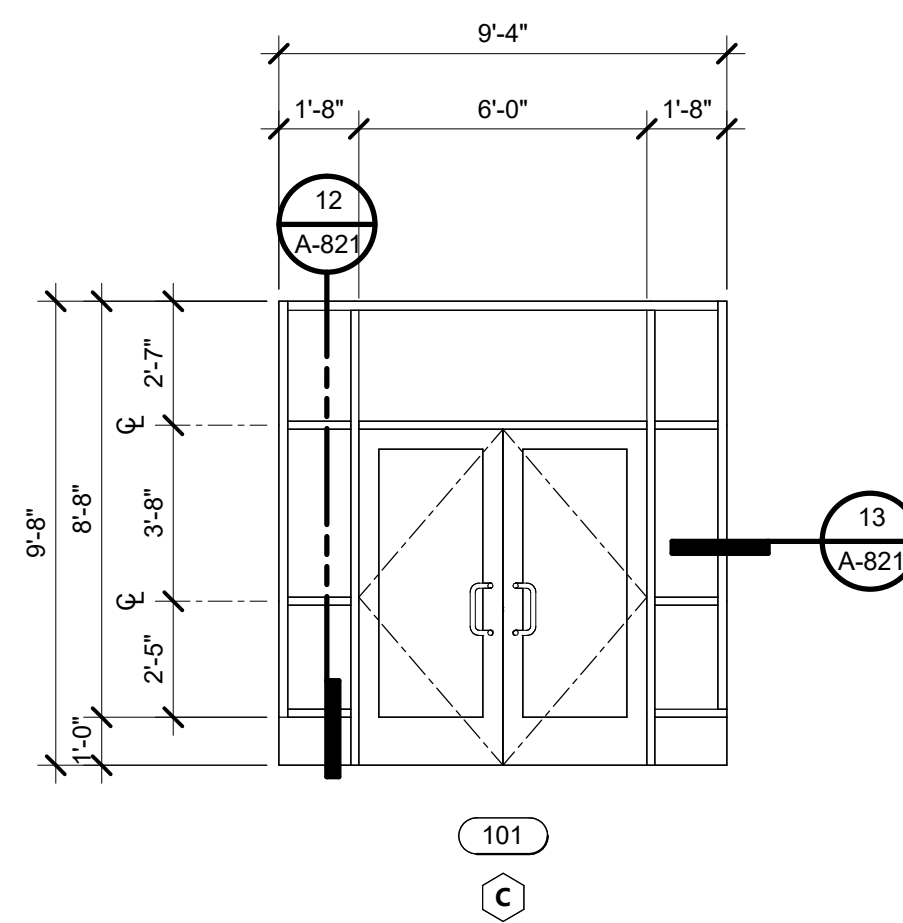
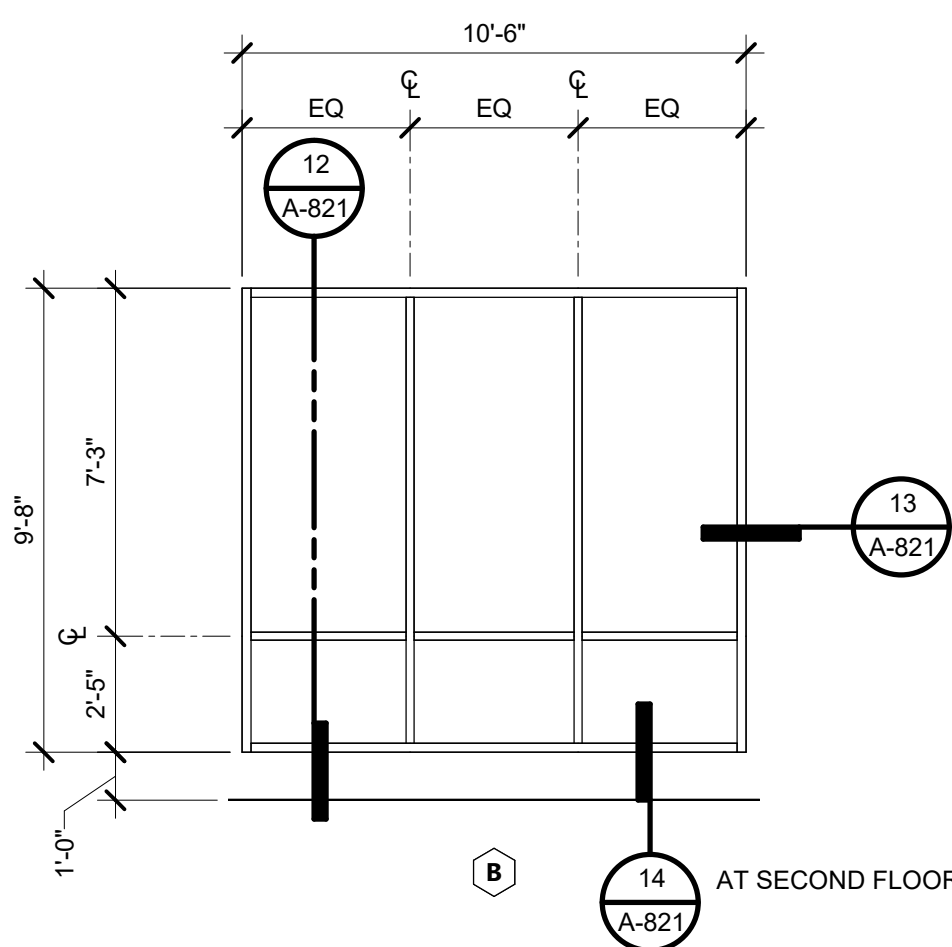
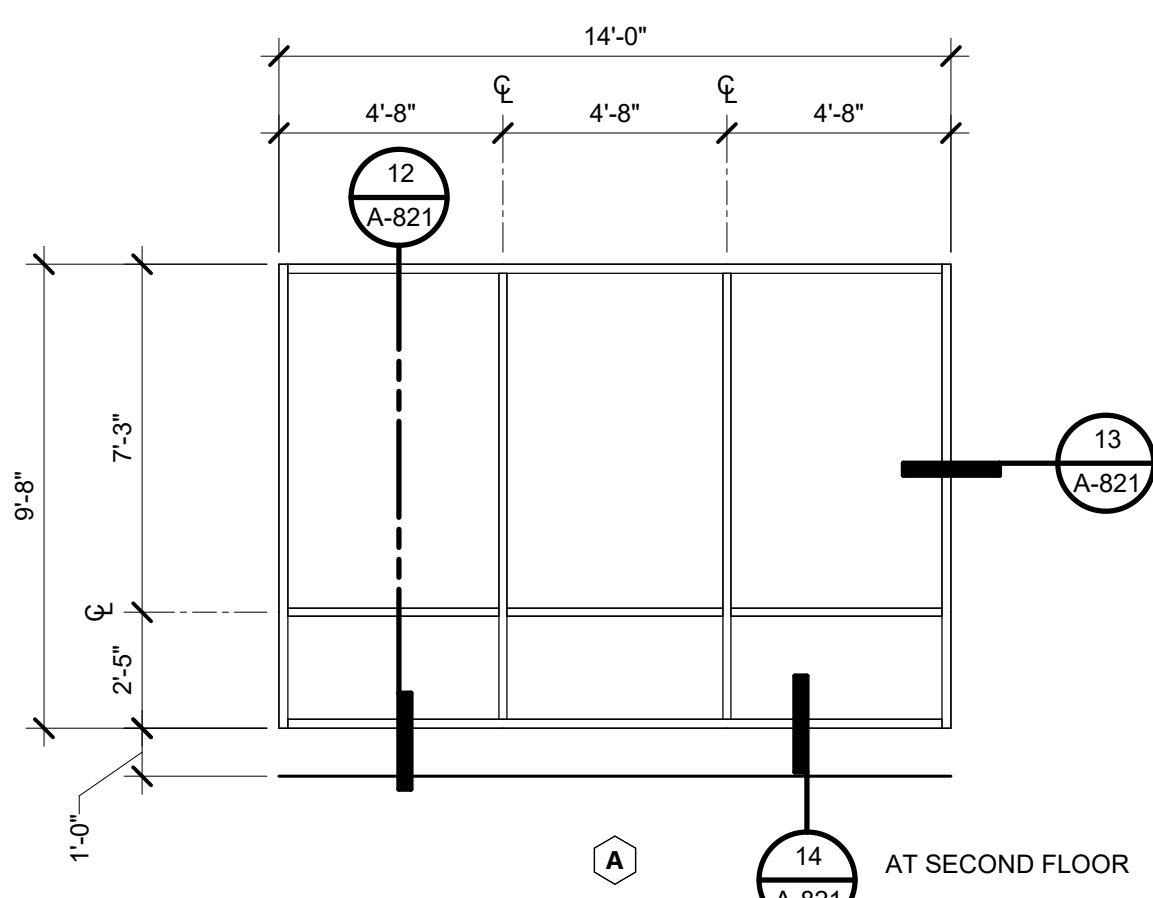


DOOR FRAME 'B'



DOOR FRAME 'B'

CONSTRUCTION DOCUMENTS



KEYNOTES

WINDOW GENERAL NOTES

1. EXTERIOR STOREFRONT BASIS OF DESIGN KAWNEER TRIFAB 451T (CENTER).
2. ALL INTERIOR WINDOWS BASIS OF DESIGN KAWNEER TRIFAB 451 (CENTER).
3. ALL GLASS TO BE TEMPERED PER SPECIFICATIONS.
4. ALL GLASS TO BE INSULATING, PER SPECIFICATIONS.

AGENCY APPROVAL DSAJ 03-122884



AMG
26535 SUMMIT CIRCLE
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19.6
560 HIGUERA STREET, SUITE C
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- CIVIL ENGINEER**
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1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE

WINDOW SCHEDULE

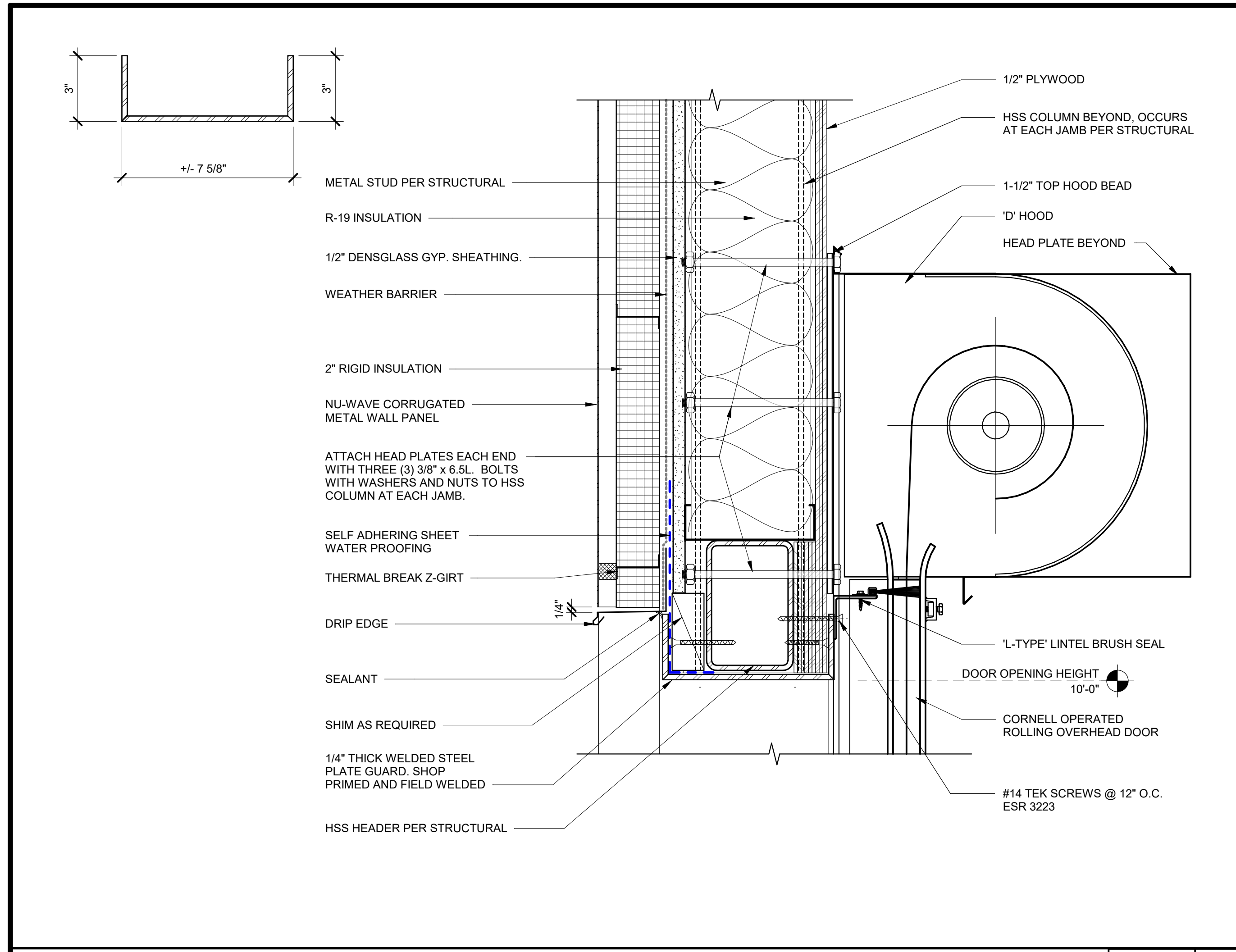
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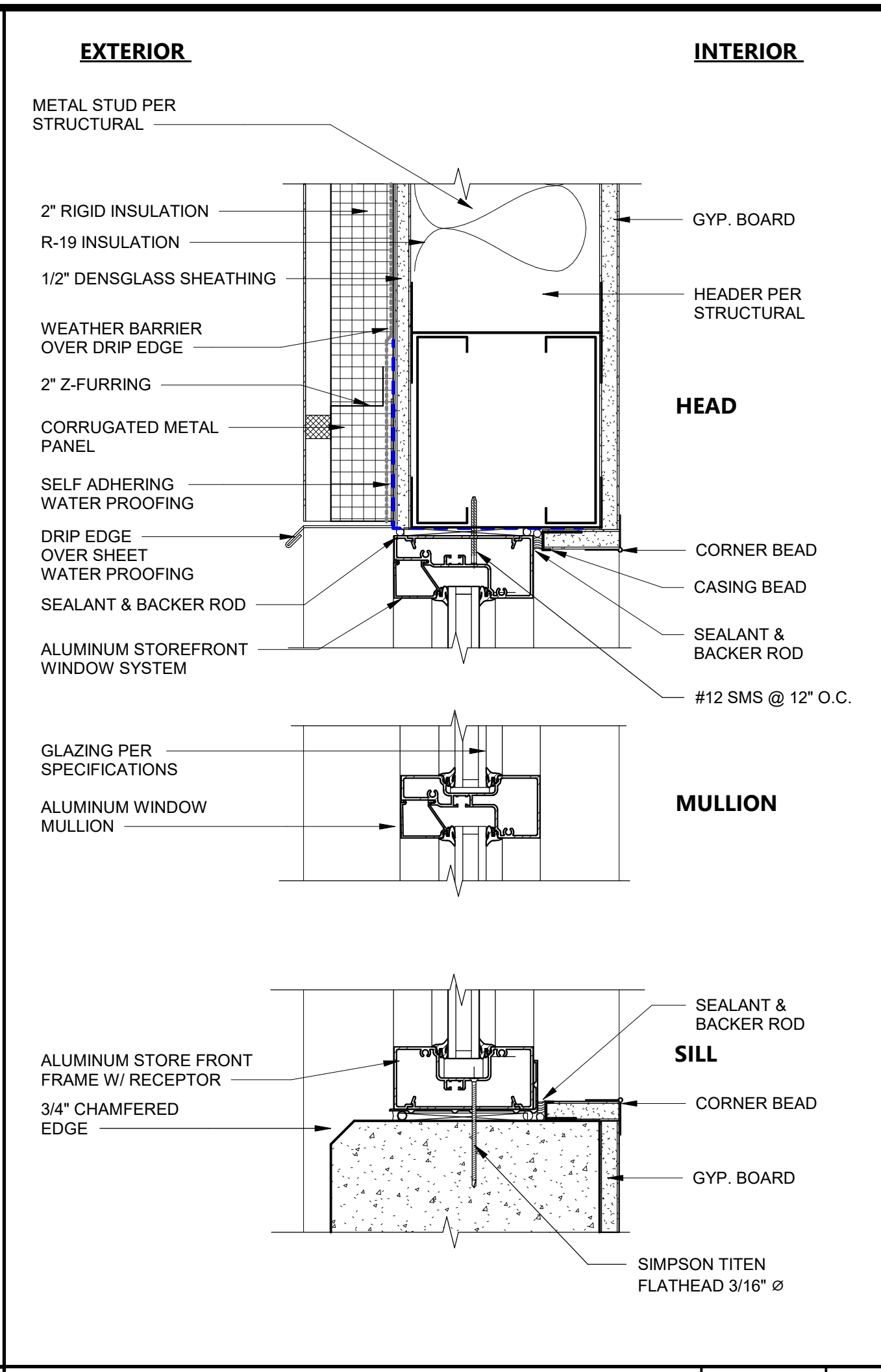
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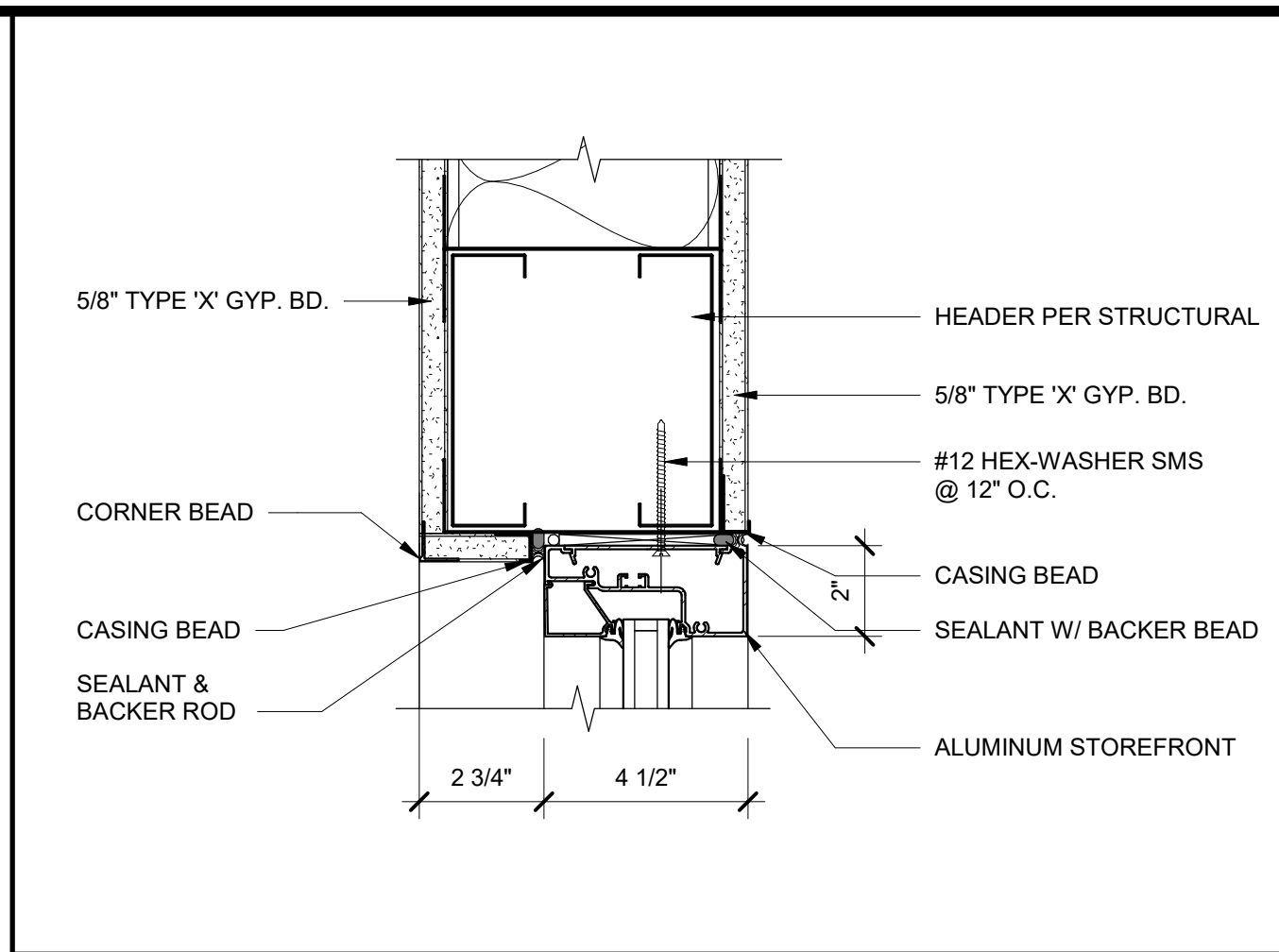
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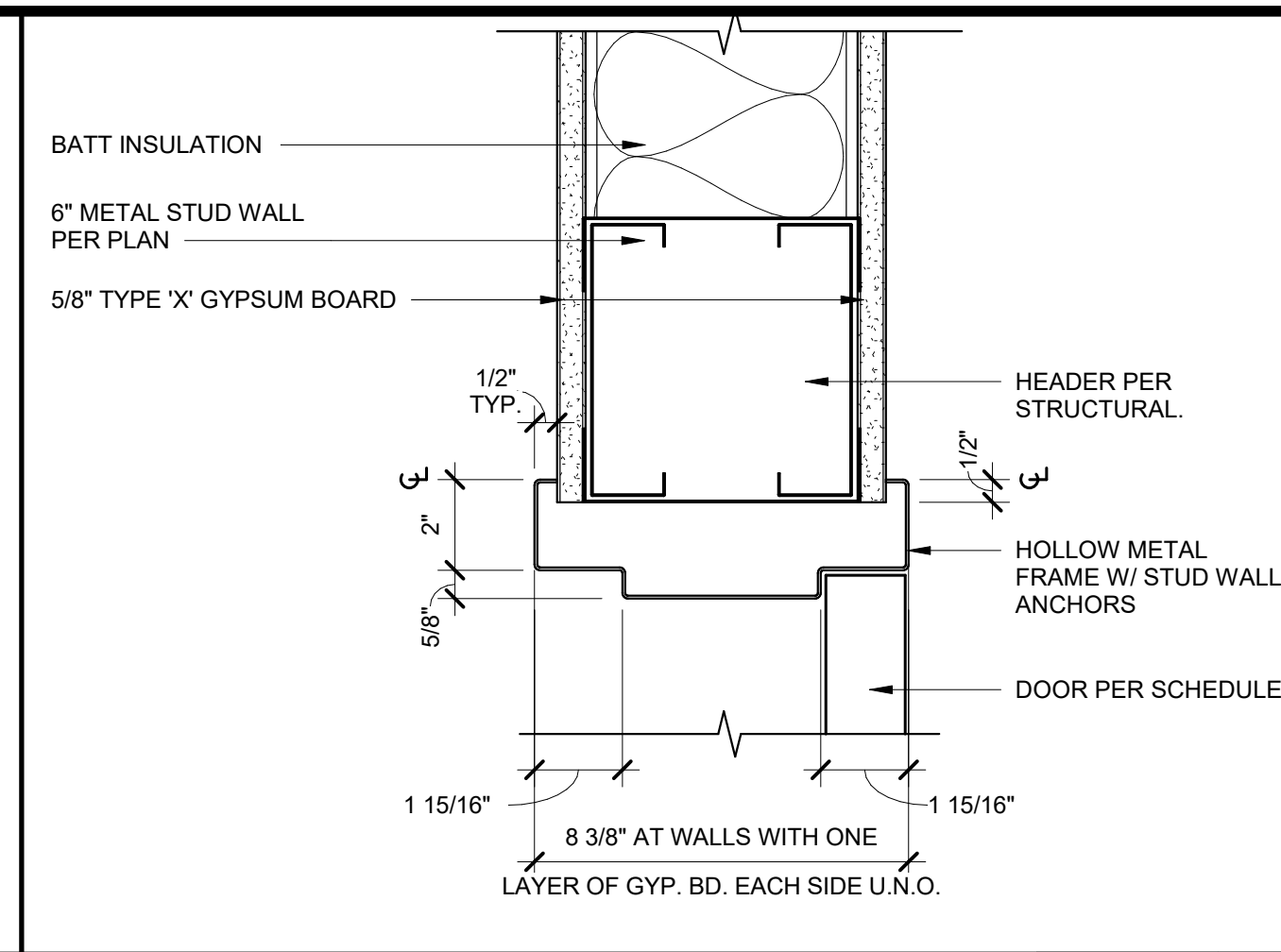
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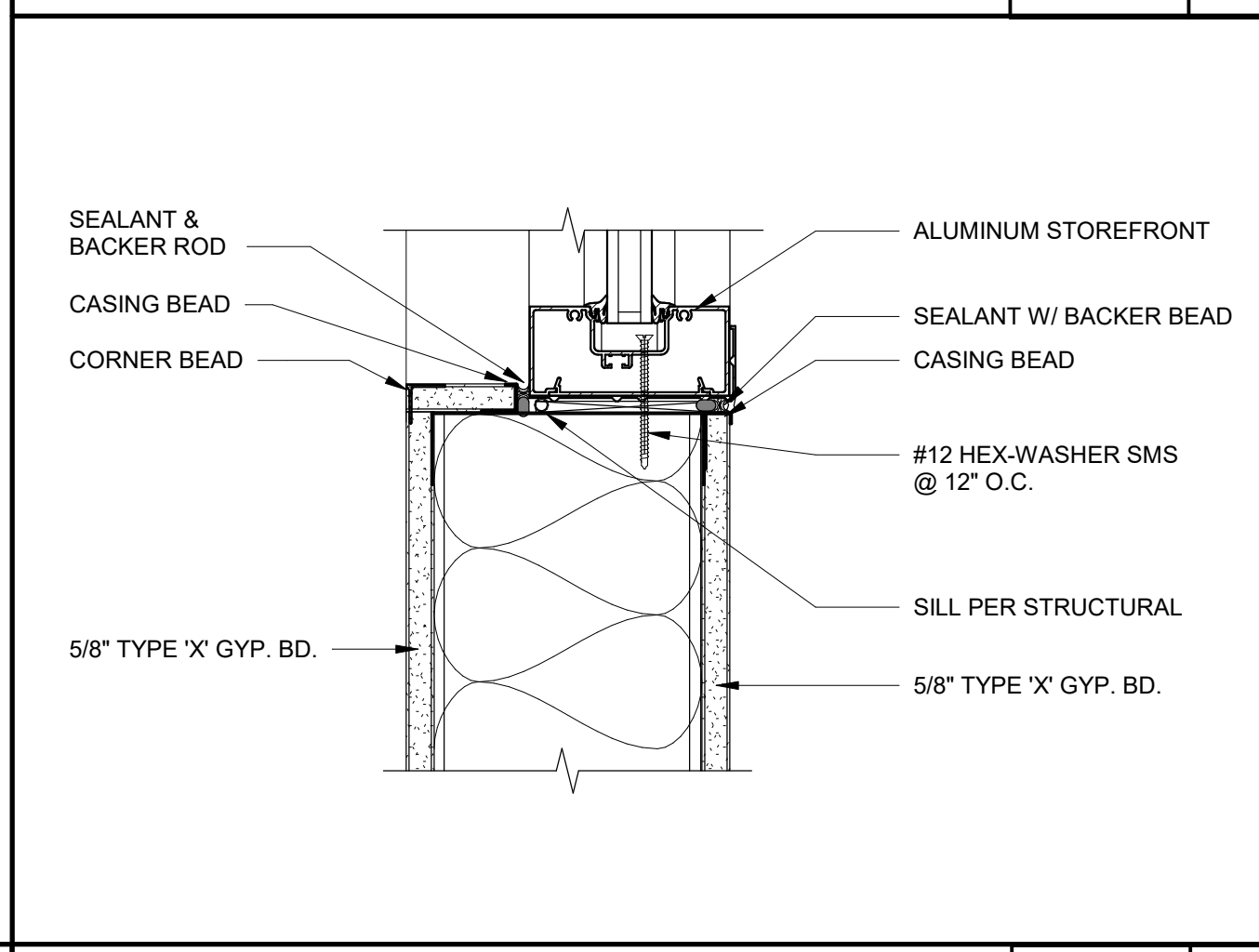
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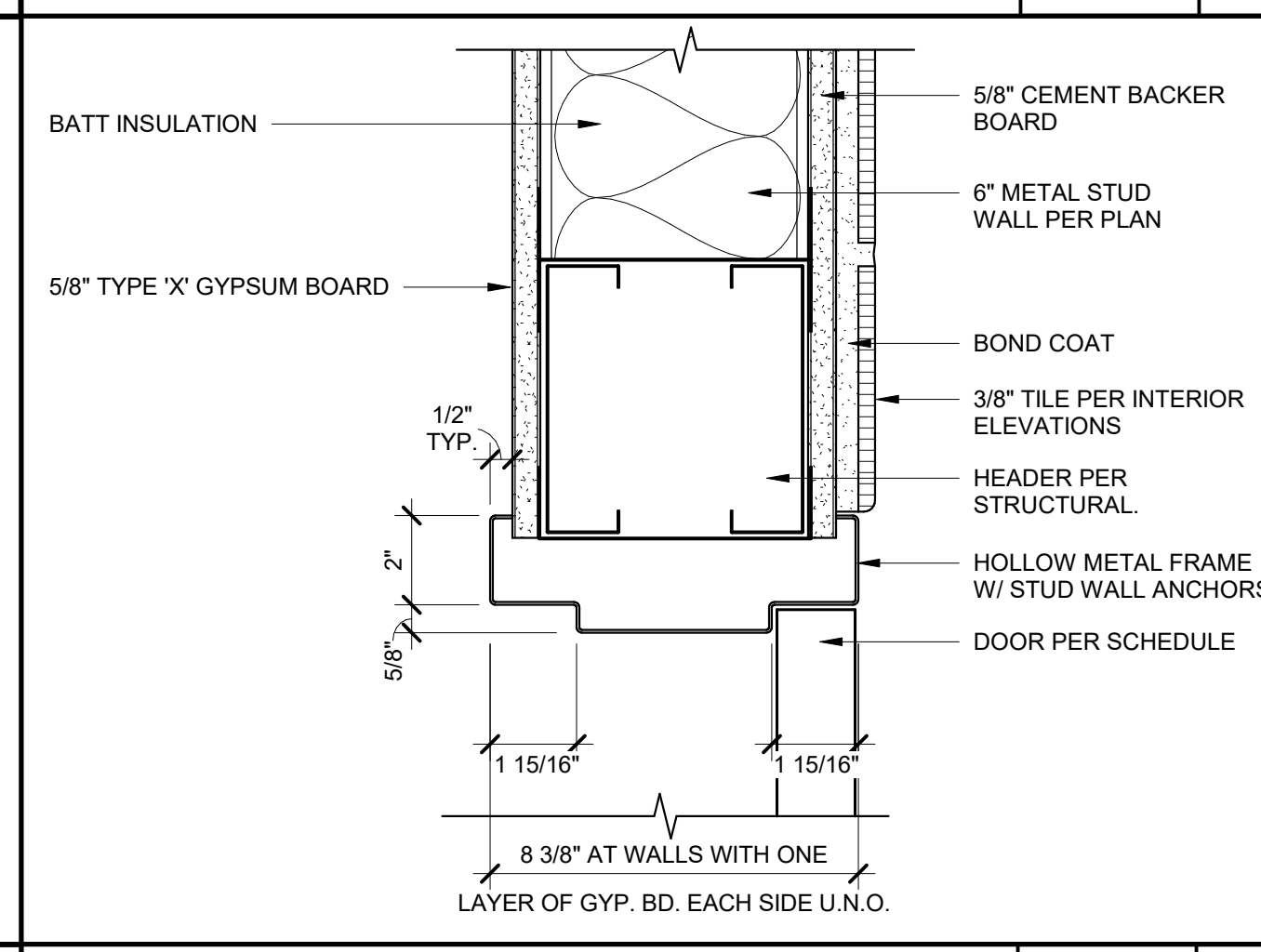
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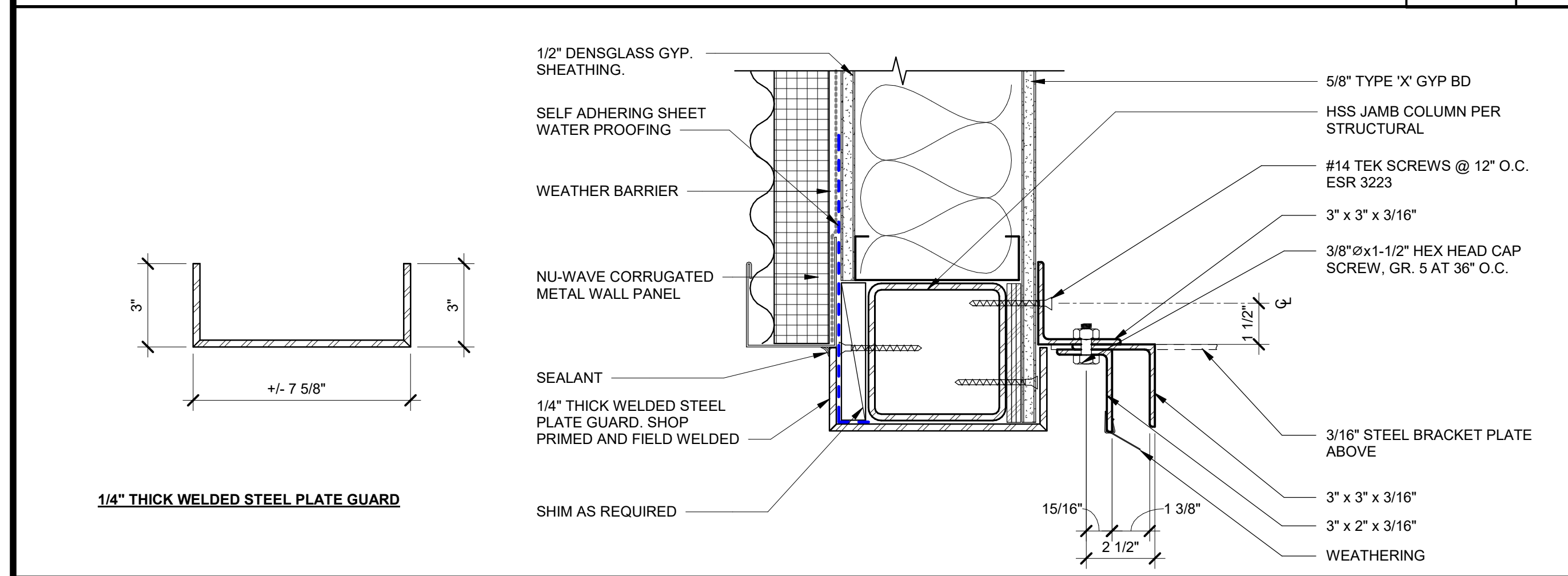
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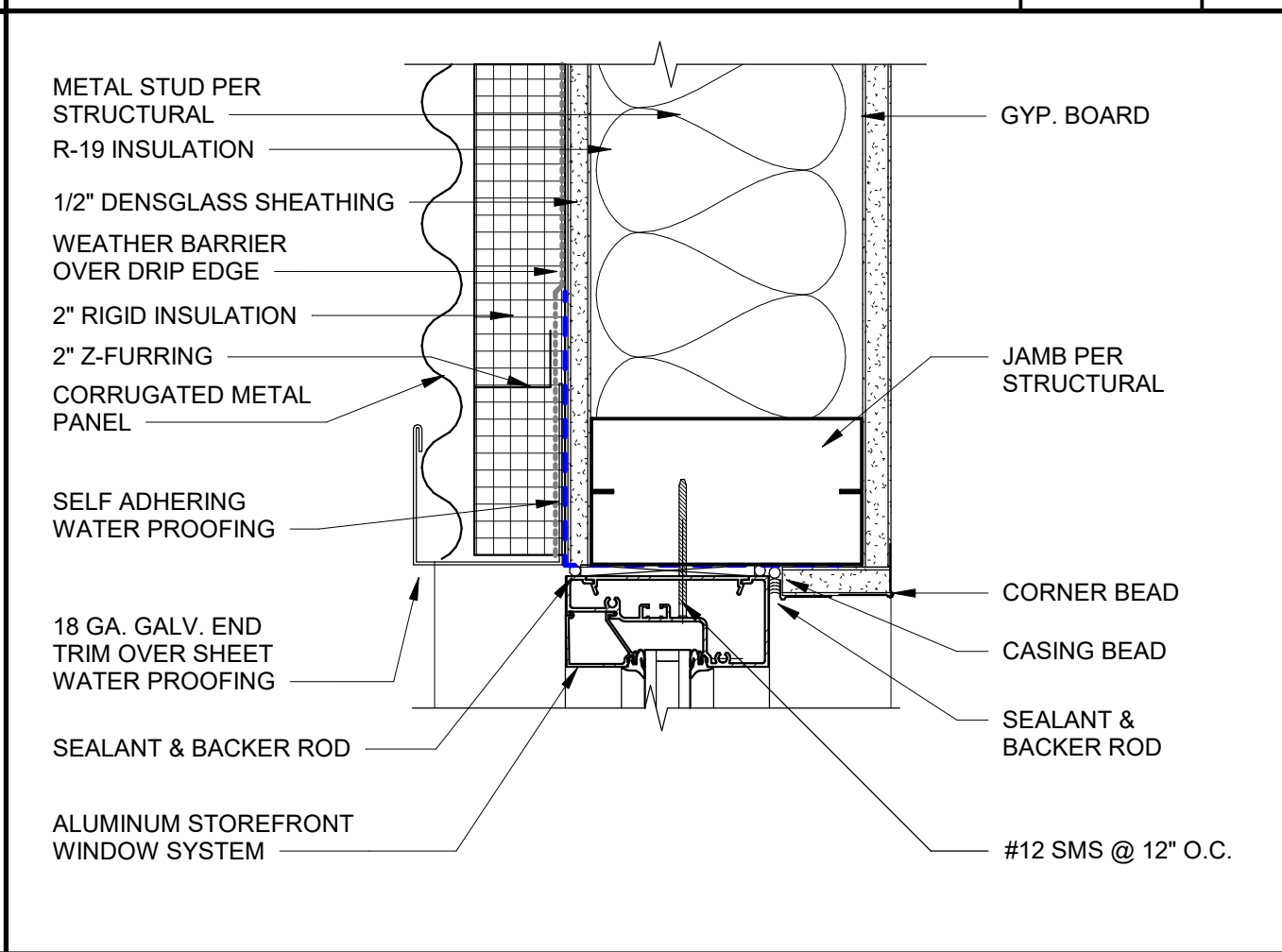
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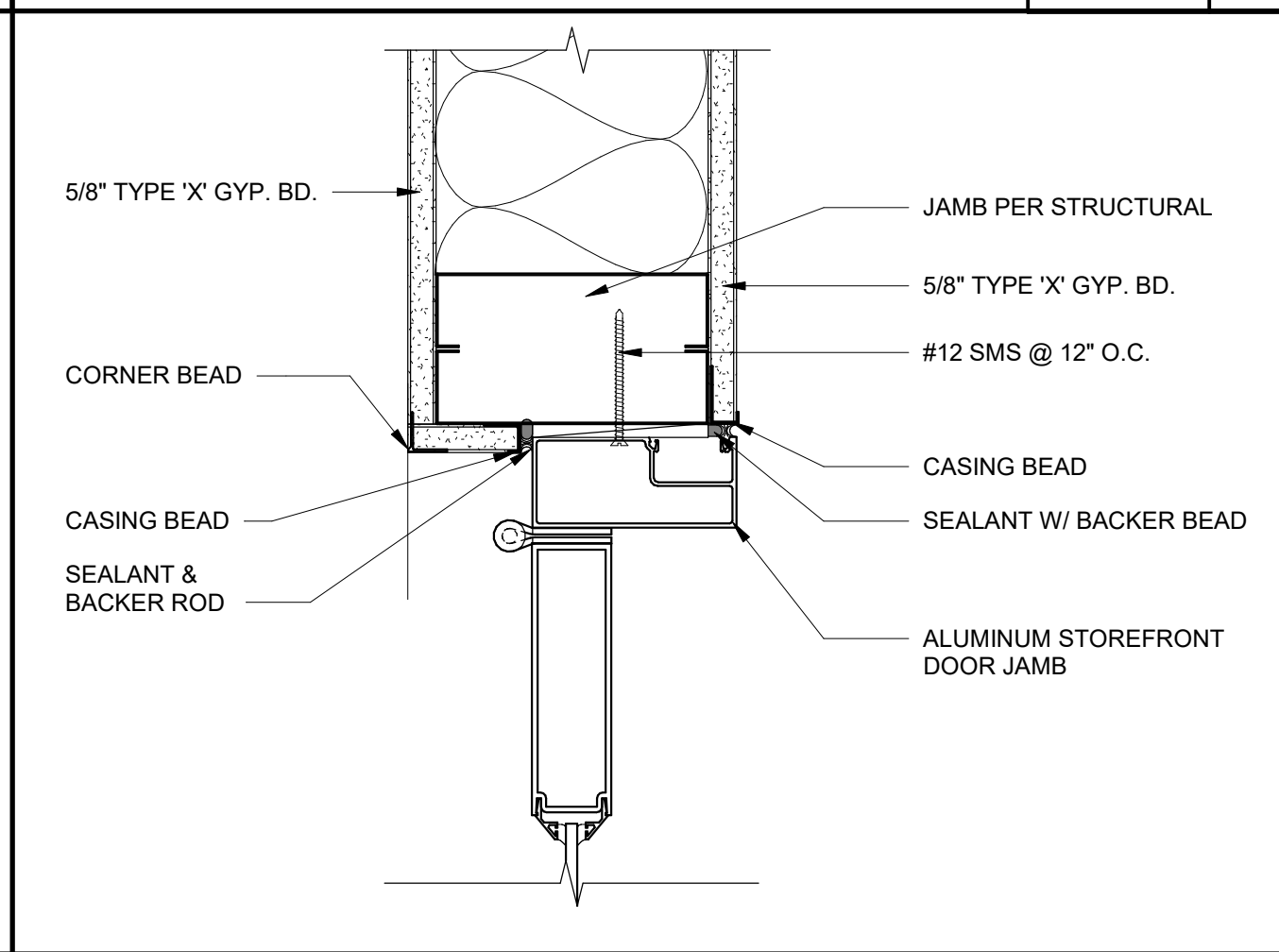
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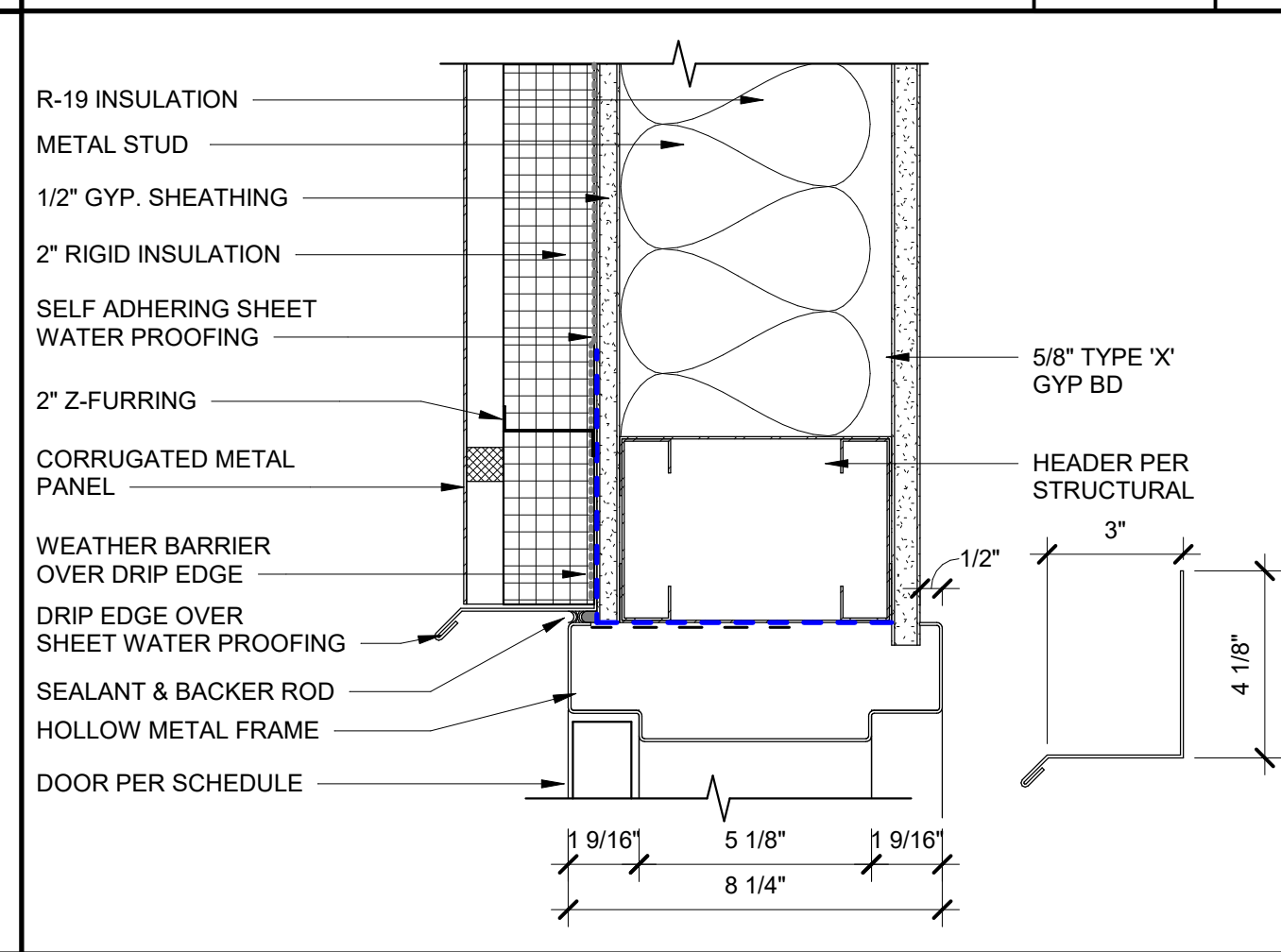
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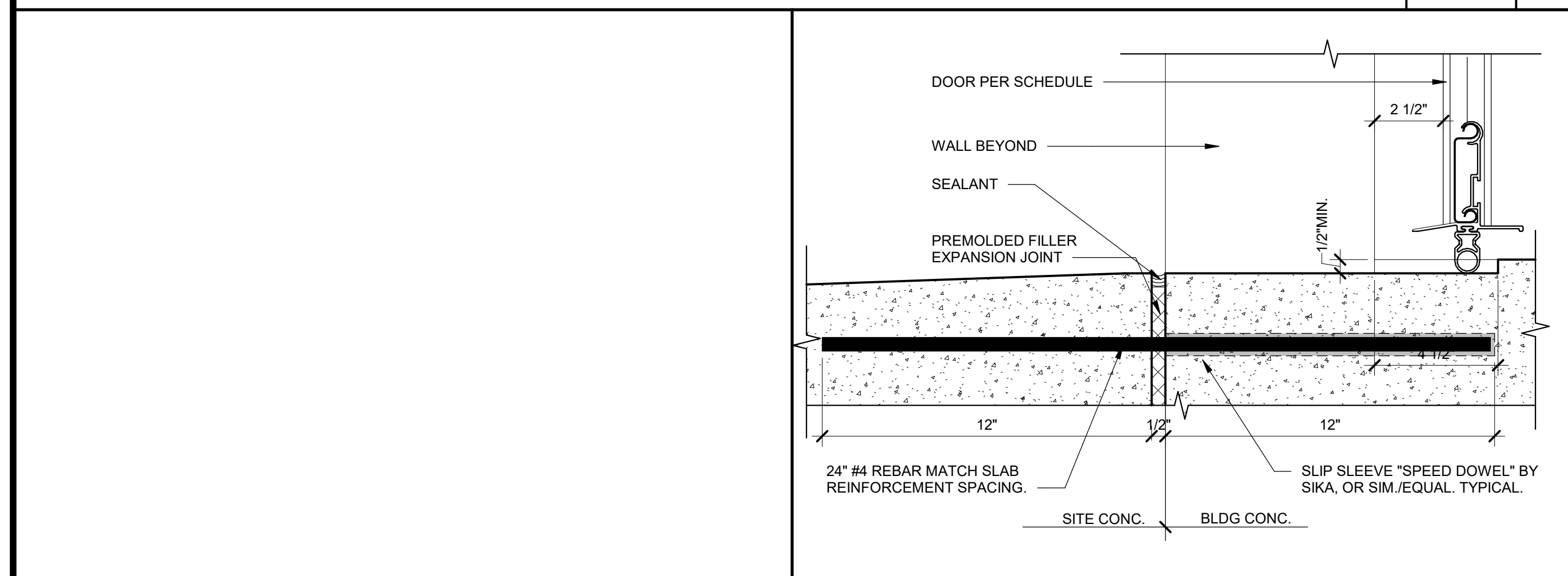
EXT. STOREFRONT JAMB / DOOR SIM. 3" = 1'-0" 13



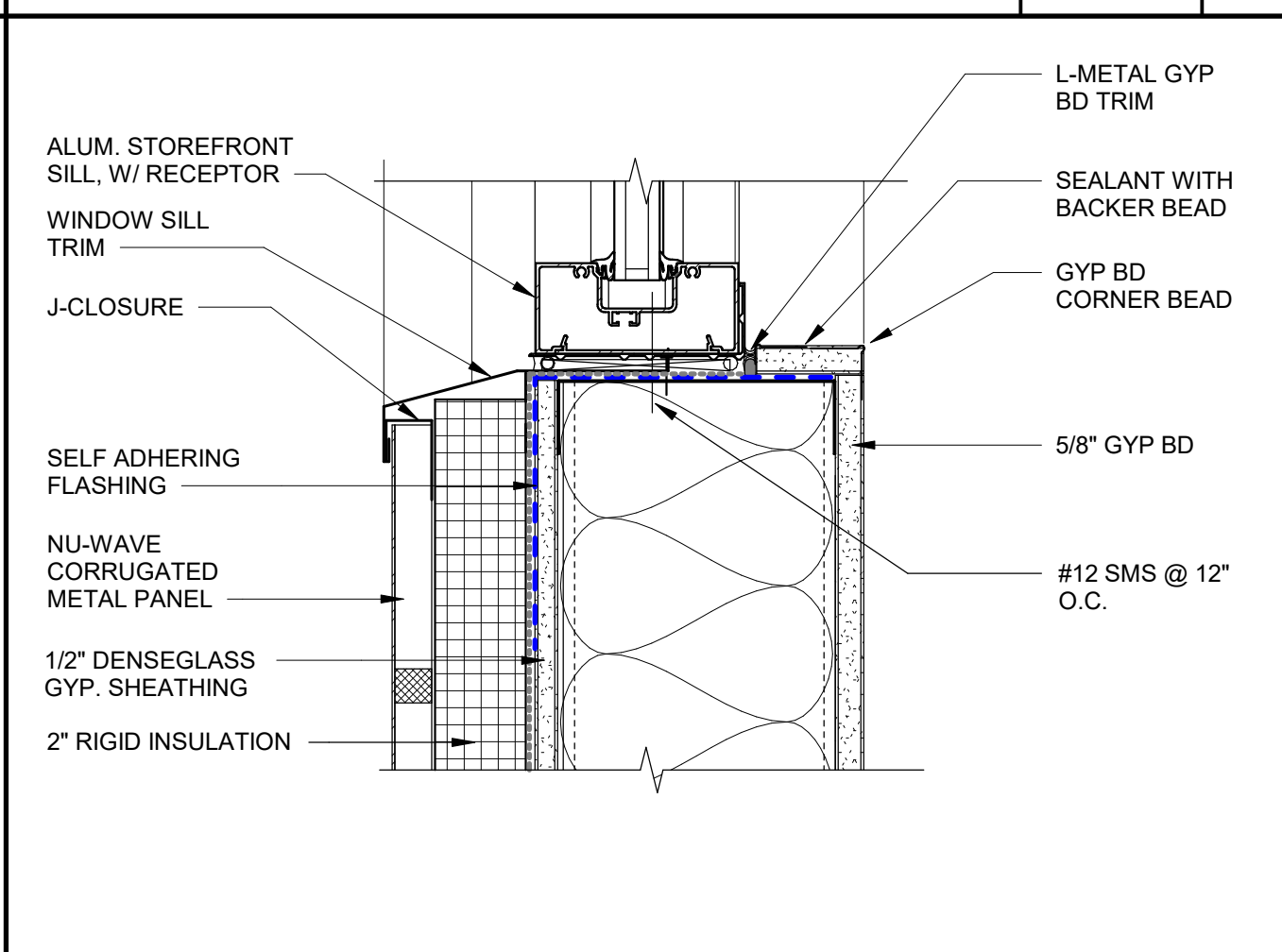
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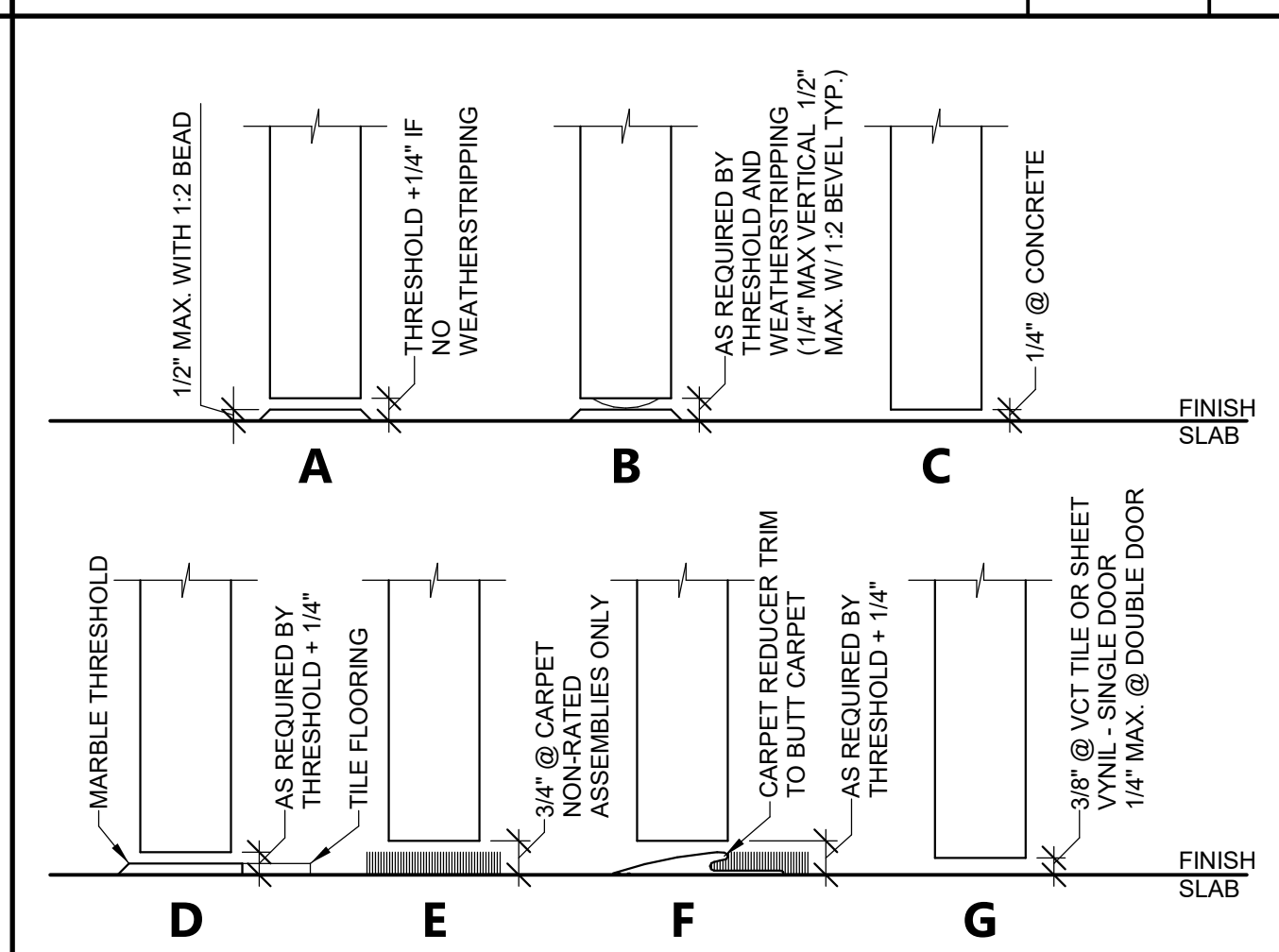
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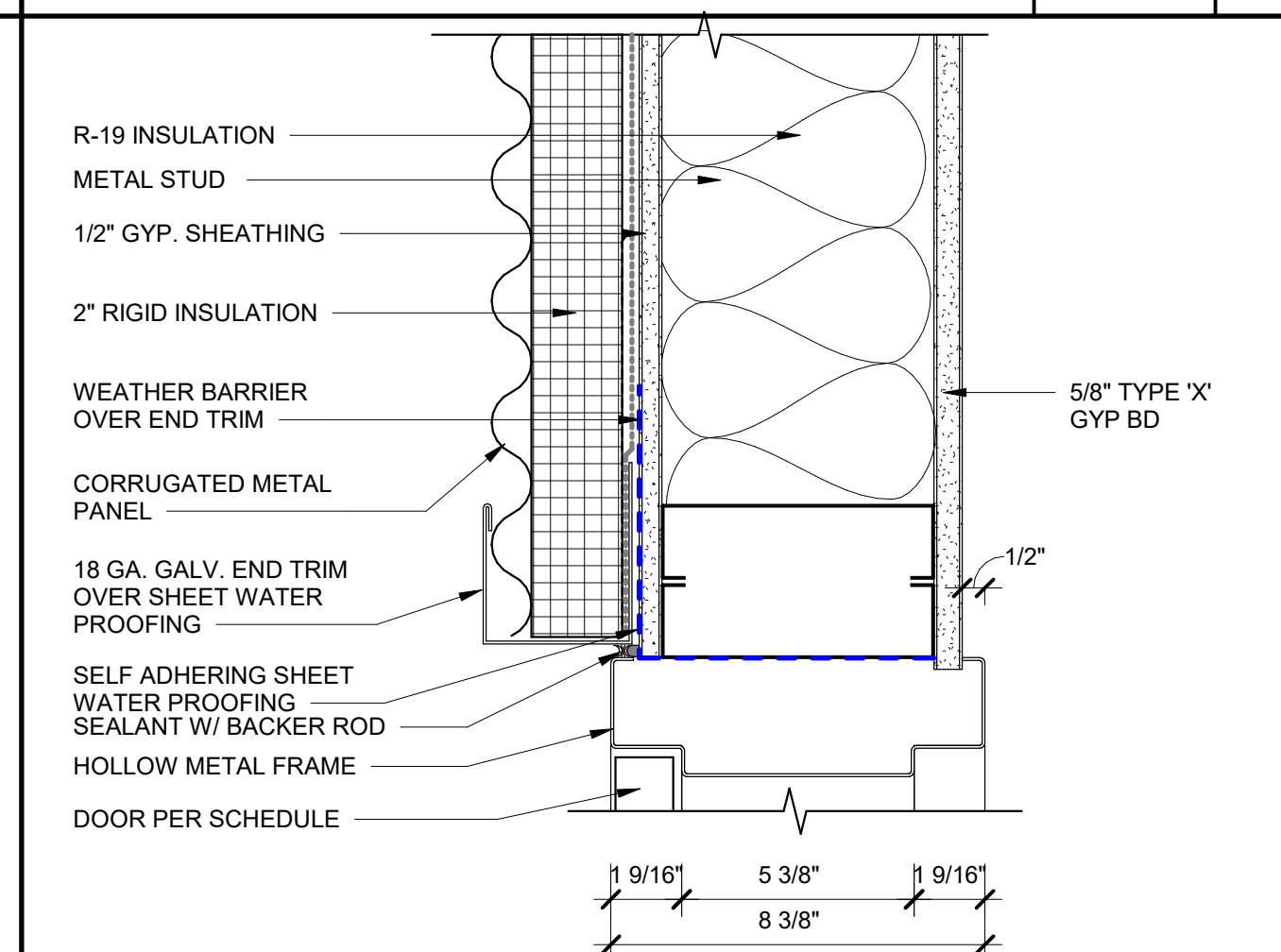
O.H. COILING DOOR THRESHOLD 3" = 1'-0" 19



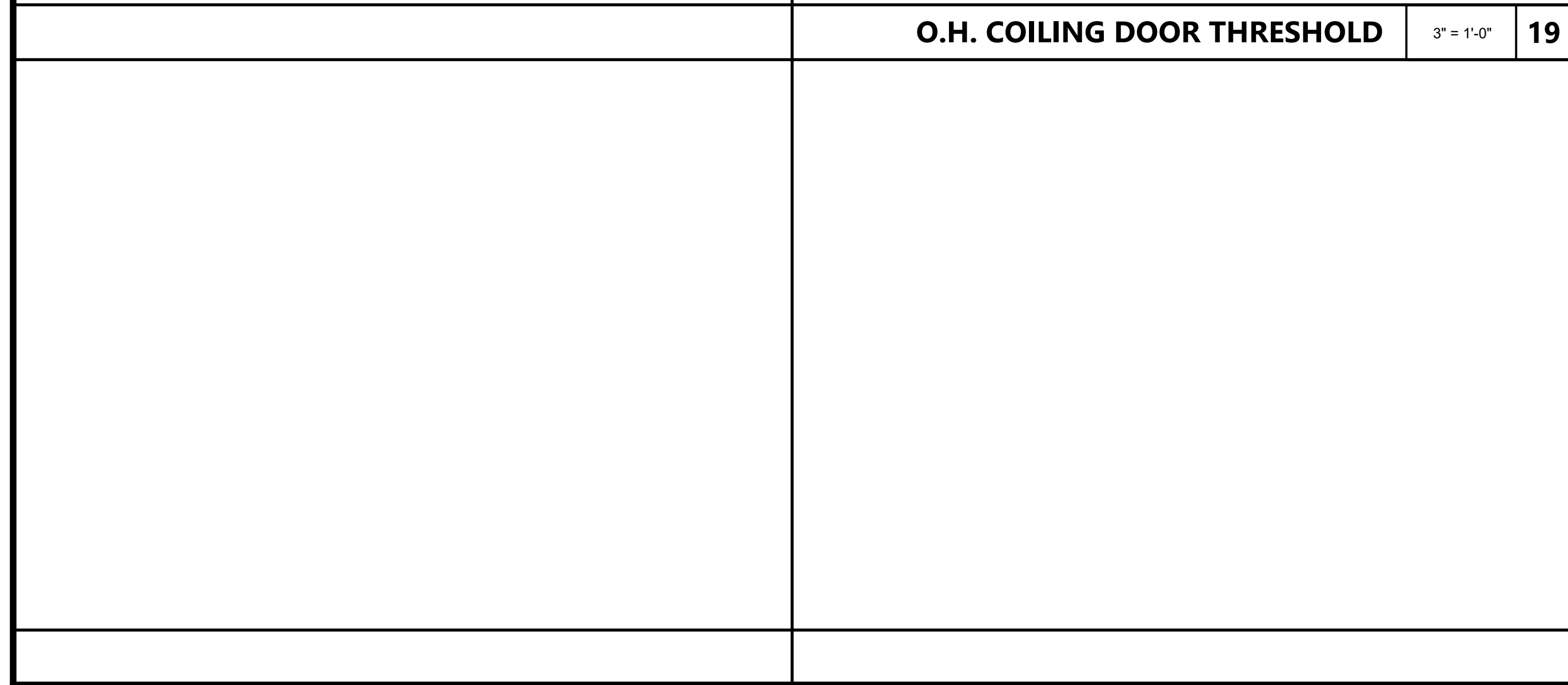
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INTERIOR DOOR THRESHOLDS 3" = 1'-0" 9



EXTERIOR H.M. DOOR JAMB 3" = 1'-0" 4



EXTERIOR THRESHOLD 3" = 1'-0" 5

AGENCY APPROVAL DSAE 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *DSAE* 07/19/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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SANTA CLARITA, CA 91350
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19.6

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ARCHITECT STAMP

CONSULTANT STAMP

LICENSED ARCHITECT
MAY GLEN WHEELER
C-22474
REN 10-31-25
STATE OF CALIFORNIA

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SHEET TITLE

DOOR AND WINDOW DETAILS

DRAWN BY: XX JOB NUMBER: 21179.01

SHEET NO.

A-821

DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

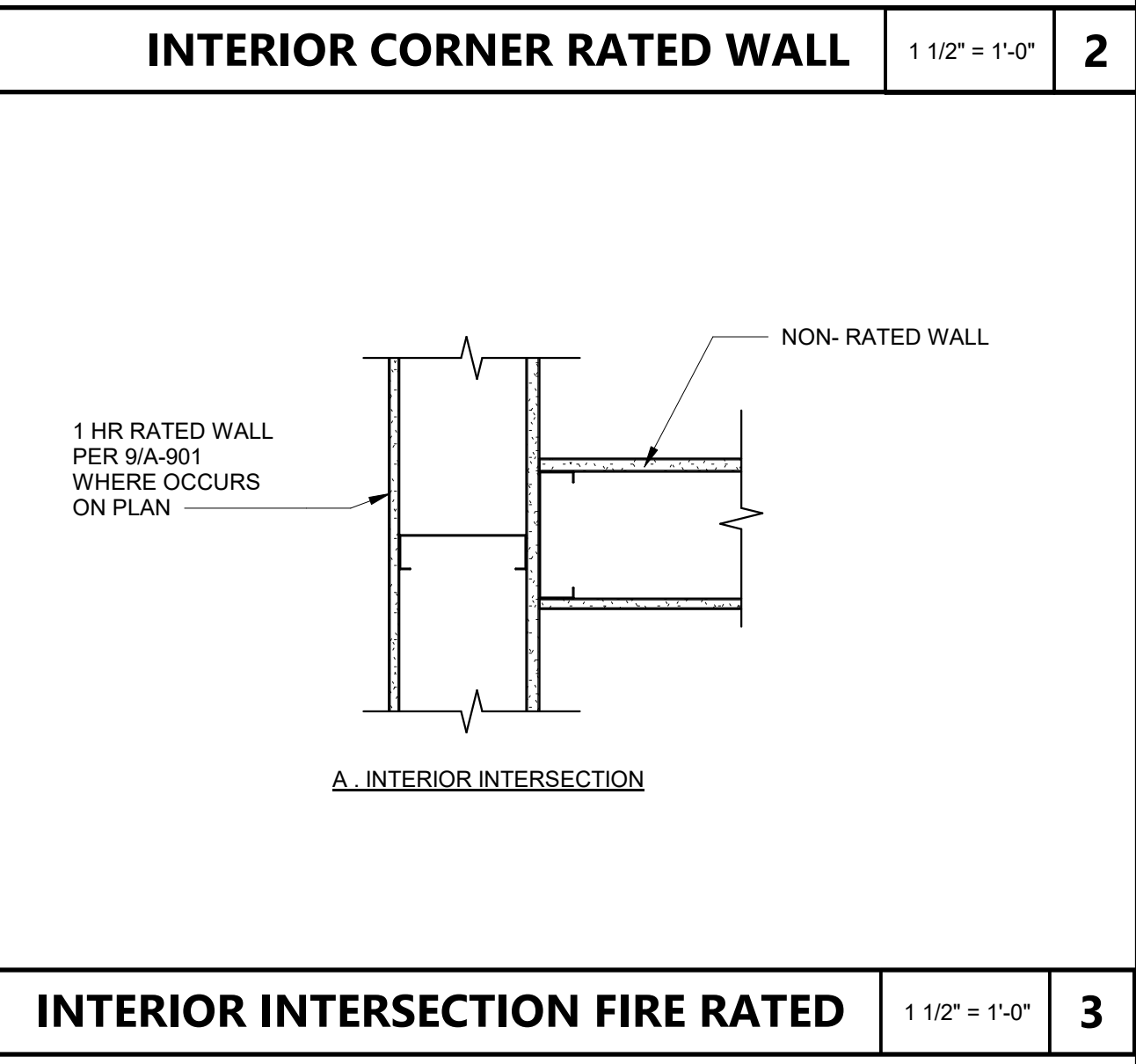
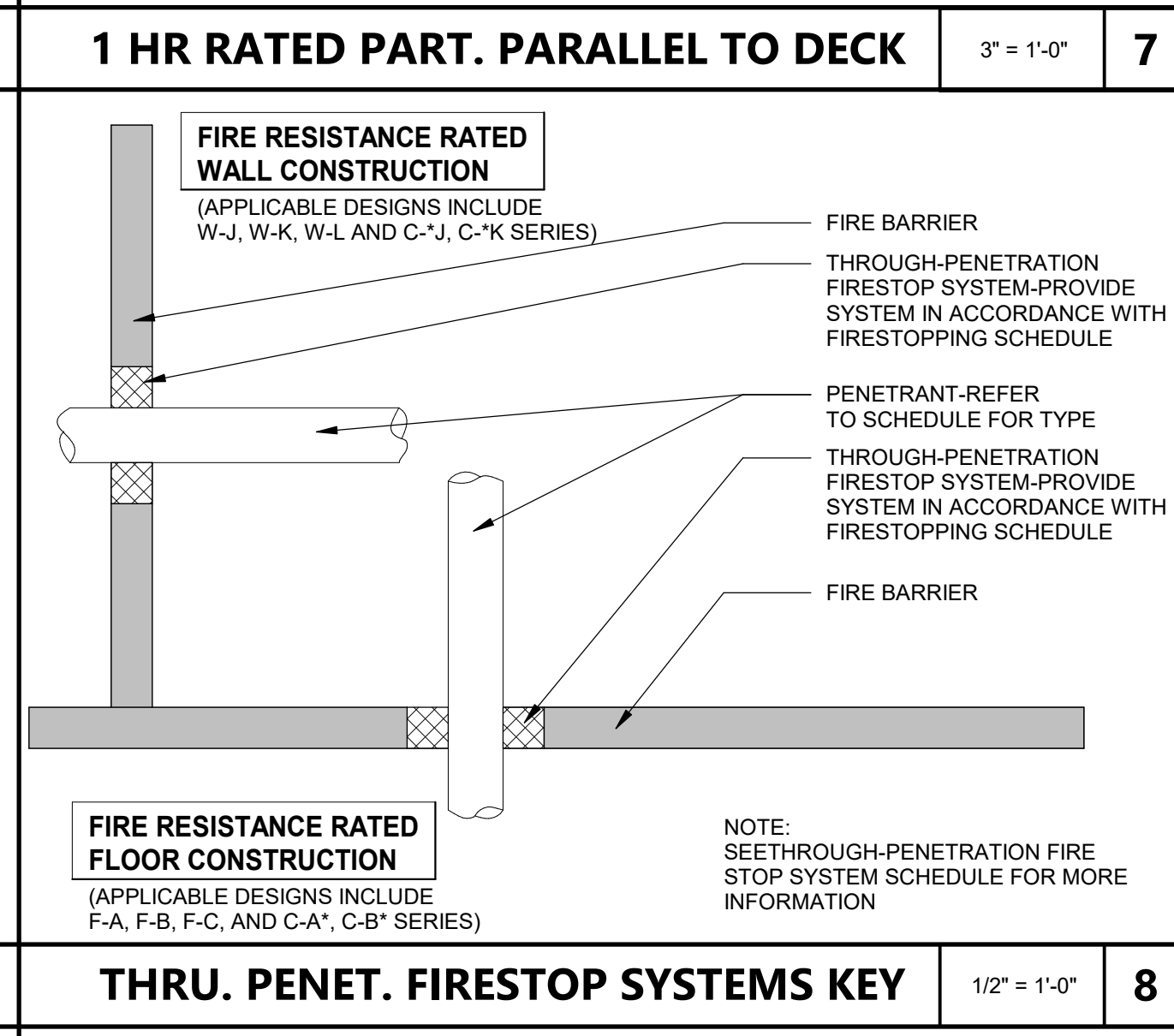
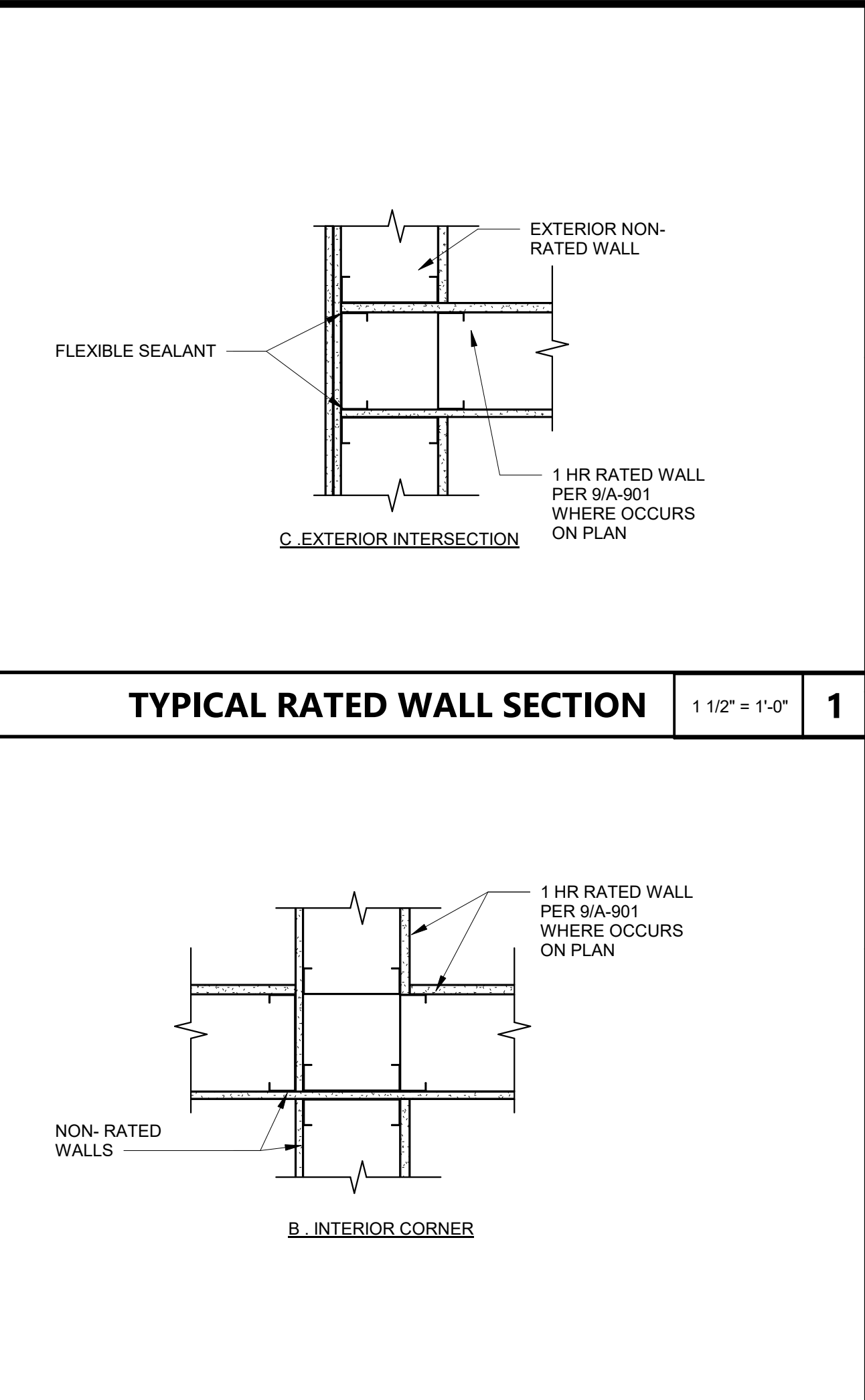
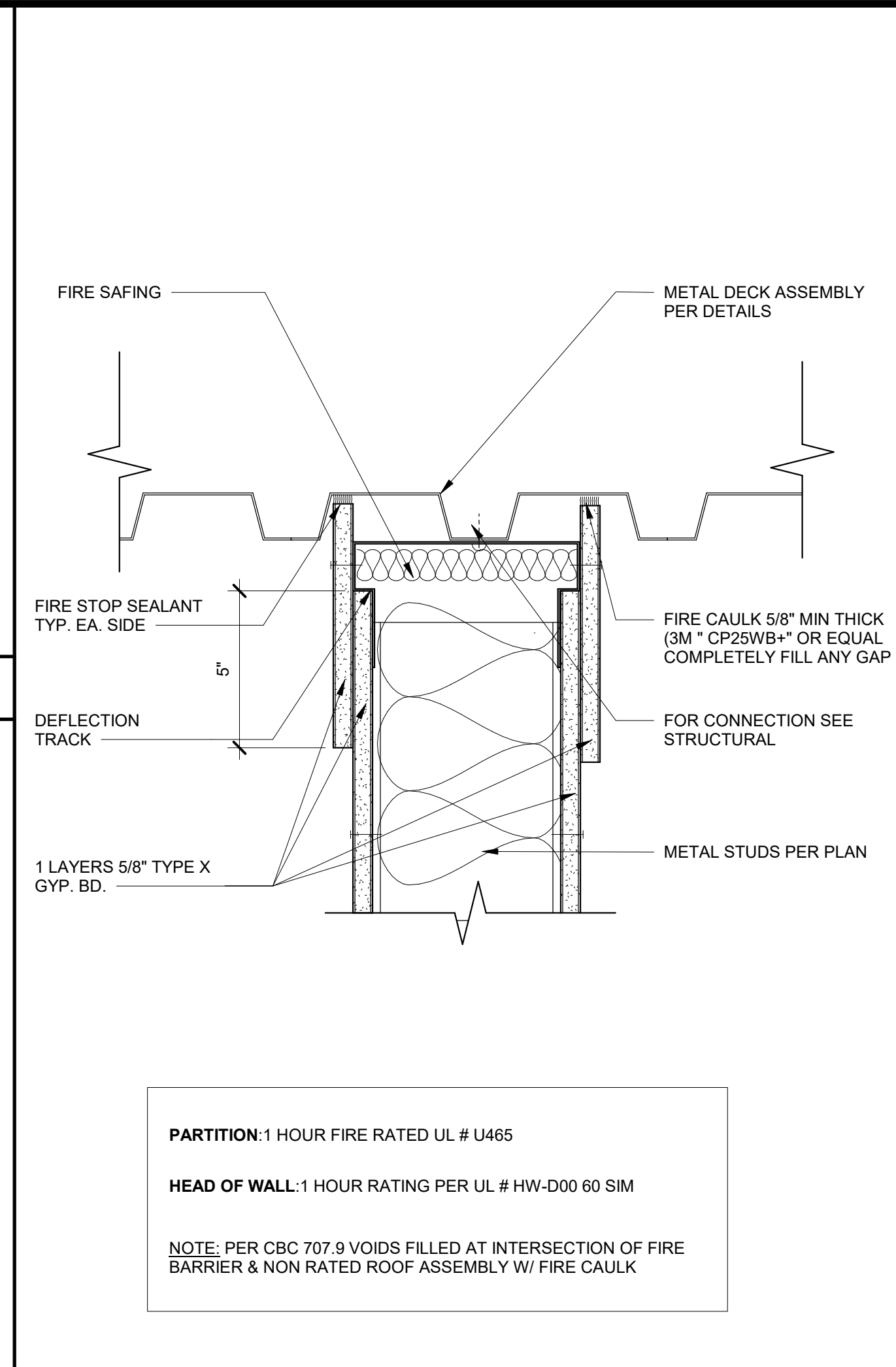
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			<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA.</p>	<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA.</p> <p>EXTERIOR INTERIOR</p>	<p>AGENCY APPROVAL DSAJ 03-122884</p> <p>CSU The California State University OFFICE OF FIRE SAFETY</p> <p>CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY</p> <p>Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.</p> <p>Approved by: DS 07/18/2023</p> <p>CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel</p>									
			<p>WALL TYPE - F 1 1/2" = 1'-0" 6</p>	<p>WALL TYPE - A 1 1/2" = 1'-0" 1</p>	<p>AMG</p> <p>26535 SUMMIT CIRCLE SANTA CLARITA, CA 91350 TEL (661) 251-7401</p>									
			<p>6" STEEL STUDS, 16 GA.</p> <p>UL U415</p>	<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA. 10" STEEL STUDS, 16 GA.</p>	<p>19.6</p> <p>560 HIGUERA STREET, SUITE C SAN LUIS OBISPO, CA 93401 TEL (805) 476-0399</p>									
			<p>WALL TYPE - G 1 1/2" = 1'-0" 7</p>	<p>WALL TYPE - B 1 1/2" = 1'-0" 2</p>	<p>CONSULTANTS</p> <p>CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 FIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896</p> <p>LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 92103 TEL (760) 220-6811</p> <p>STRUCTURAL ENGINEER 195X STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210</p> <p>M.E.P. ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005</p> <p>FIRE PROTECTION ENGINEER ALPHA FIRE UNLIMITED 650 SWEENEY LANE SAN LUIS OBISPO, CA 93401 TEL (805) 541-2527</p> <p>FIRE ALARM ENGINEER DEEP BLUE INTEGRATION INC. 3442 EMPRESA DR SUITE C SAN LUIS OBISPO, CA 93401 TEL (888) 600-0324</p>									
			<p>6" STEEL STUDS, 16 GA.</p> <p>UL U419</p>	<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA.</p>	<p>ARCHITECT STAMP</p> <p>CONSULTANT STAMP</p> <p>LICENSED ARCHITECT PAUL GLEN WHELER C-22474 REV 10-31-23 STATE OF CALIFORNIA</p> <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.</p> <p>PROJECT OWNER & TITLE</p> <p>CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93407</p> <p>CAL POLY TECH PARK - PHASE 2 Mount Bishop Road San Luis Obispo, CA 93407</p> <p>SHEET TITLE</p> <p>WALL TYPES</p> <p>DRAWN BY: MB JOB NUMBER: 21179.01</p> <p>SHEET NO.</p> <p>A-901</p> <p>DATE: MARCH 31, 2023</p>	NO.	DATE	DESCRIPTION						
NO.	DATE	DESCRIPTION												
			<p>WALL TYPE - H 1 1/2" = 1'-0" 8</p>	<p>WALL TYPE - C 1 1/2" = 1'-0" 3</p>										
				<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA.</p>	<p>WALL TYPE - D 1 1/2" = 1'-0" 4</p>									
				<p>6" STEEL STUDS, 16 GA. 8" STEEL STUDS, 16 GA.</p>	<p>WALL TYPE - E 1 1/2" = 1'-0" 5</p>									

CONSTRUCTION DOCUMENTS

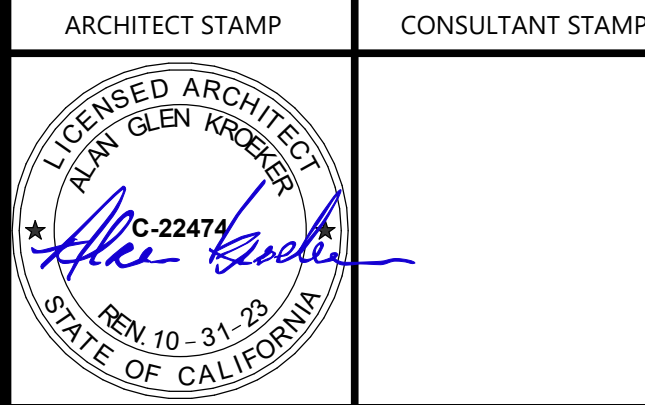
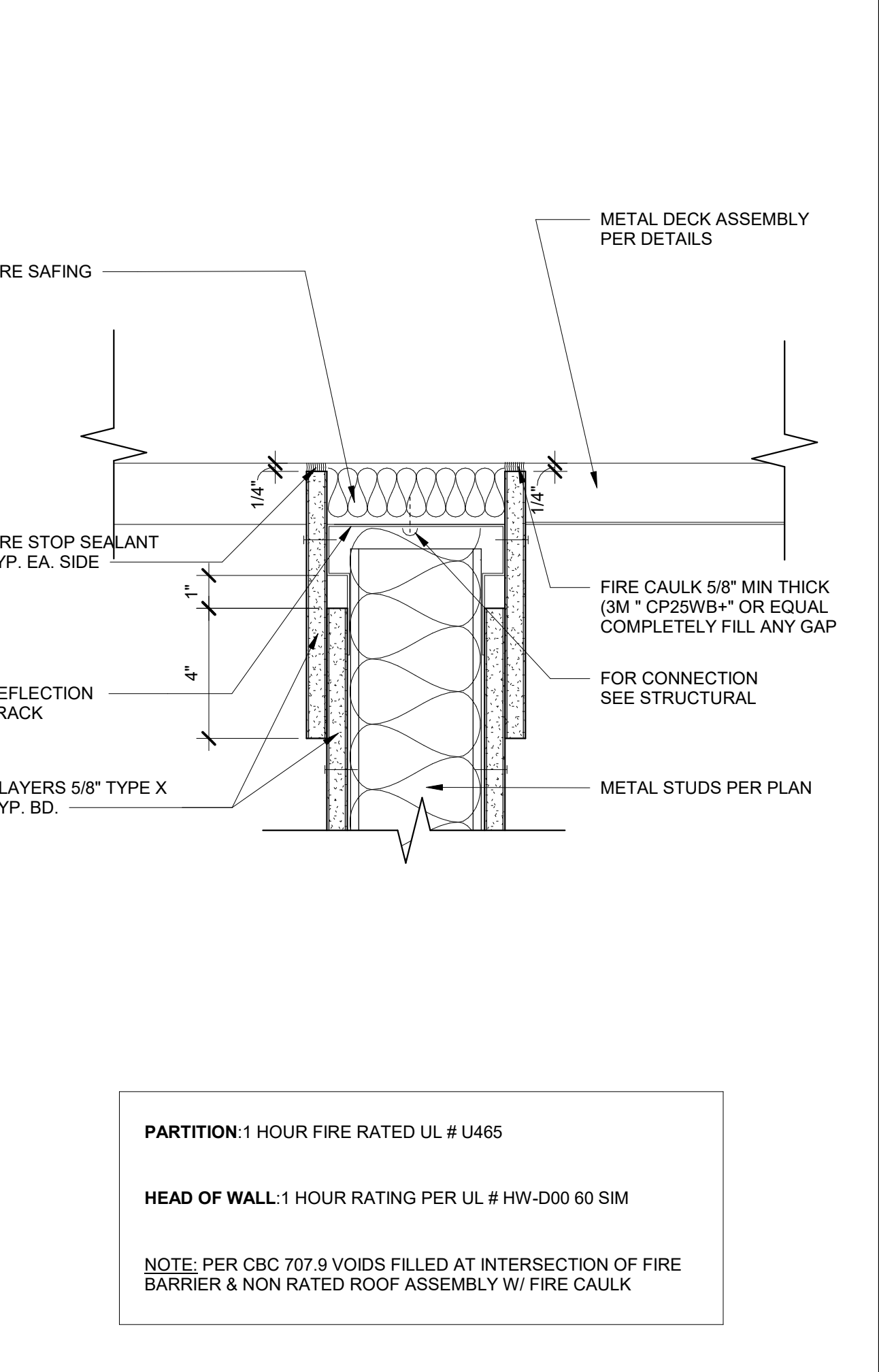
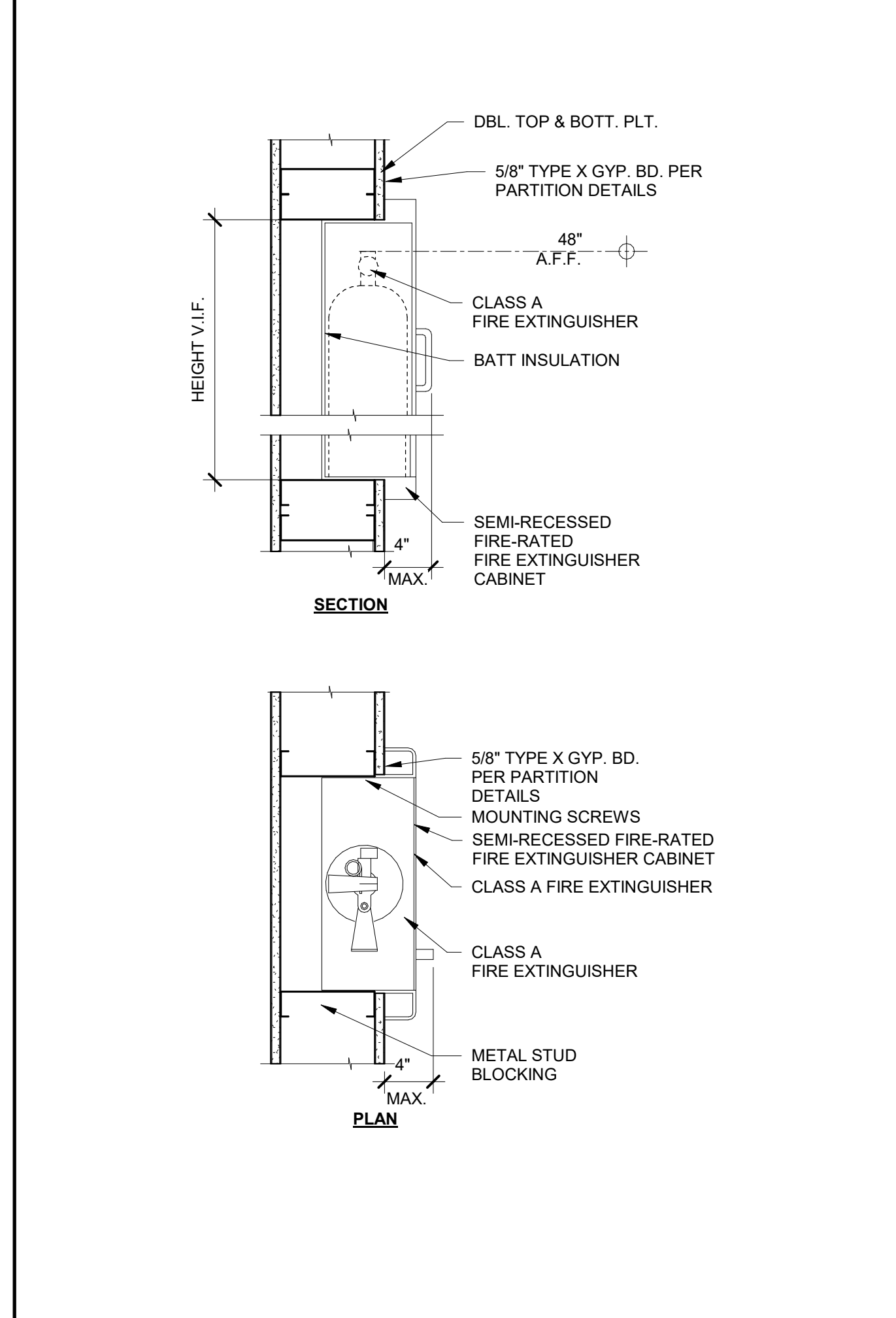


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 SAN LUIS OBISPO, CA 93401
 TEL (888) 600-0324



THROUGH-PENETRATION FIRE STOP SYSTEM SCHEDULE						
FIRESTOP SYSTEMS ARE LISTED USING THE ALPHA-NUMERIC IDENTIFICATION SYSTEM PUBLISHED IN THE UL'S FIRE RESISTANT DIRECTORY, VOL. 2						
TYPE OF PENETRANT	CONSTRUCTION					
	FLOOR PENETRATION SYSTEM (FIRST ALPHA COMPONENT = C OR W)			WALL PENETRATION SYSTEM (FIRST ALPHA COMPONENT = C OR W)		
	CONCRETE FLOORS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 5 INCHES	CONCRETE FLOORS WITH A MINIMUM THICKNESS GREATER THAN OR EQUAL TO 5 INCHES	FRAMED FLOORS	CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 8 INCHES	CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS GREATER THAN 8 INCHES	FRAMED FLOORS
NO PENETRATING ITEMS	C-AJ-0001-0999 OR F-A-0001-0999	C-BJ-0001-0999	N/A	C-AJ-0001-0999 OR C-BJ-0001-0999 OR W-J-0001-0999	N/A	W-L-0001-0999
METALLIC PIPE, CONDUIT, OR TUBING	C-AJ-1001-1999 OR F-A-1001-1999	C-BJ-1001-1999 OR F-B-1001-1999	F-C-1001-1999	C-AJ-1001-1999 OR C-BJ-1001-1999 OR W-J-1001-1999	C-BJ-1001-1999 OR W-K-1001-1999	W-L-1001-1999
NON-METALLIC PIPE, CONDUIT, OR TUBING	C-AJ-2001-2999 OR F-A-2001-2999	C-BJ-2001-2999 OR F-B-2001-2999	F-C-2001-2999	C-AJ-2001-2999 OR C-BJ-2001-2999 OR W-J-2001-2999	N/A	W-L-2001-2999
ELECTRICAL CABLES	C-AJ-3001-3999 OR F-A-3001-3999	C-BJ-3001-3999 OR F-B-3001-3999	F-C-3001-3999	C-AJ-3001-3999 OR C-BJ-3001-3999 OR W-J-3001-3999	N/A	W-L-3001-2999
CABLE TRAYS WITH ELECTRICAL TABLES	C-AJ-4001-4999 OR F-A-4001-4999	C-BJ-4001-4999	N/A	C-AJ-4001-4999 OR C-BJ-4001-4999 OR W-J-4001-4999	W-K-4001-4999	W-L-4001-4999
UNSULLATED PIPES	C-AJ-5001-5999 OR F-A-5001-5999	C-BJ-5001-5999	F-C-5001-5999	C-AJ-5001-5999 OR C-BJ-5001-5999 OR W-J-5001-5999	N/A	W-L-5001-5999
MISC. ELECTRICAL PENETRANTS	C-AJ-6001-6999 OR F-A-6001-6999	N/A	N/A	C-AJ-6001-6999	N/A	W-L-6001-6999
MISC. MECHANICAL PENETRANTS	C-AJ-7001-7999	N/A	F-C-7001-7999	C-AJ-7001-7999 OR W-J-7001-7999	N/A	W-L-7001-7999
GROUPINGS OF PENETRATIONS	C-AJ-8001-8999 OR F-A-8001-8999	C-BJ-8001-8999	F-C-7001-7999	C-AJ-8001-8999 OR C-BJ-8001-8999 OR W-J-8001-8999	N/A	W-L-8001-8999

FOR EACH LOCATION WHERE A FIRE-RESISTANCE-RATED FLOOR OR WALL ASSEMBLY IS PENETRATED, PROVIDE A UL-LISTED THROUGH PENETRATION FIRESTOP SYSTEM SELECTED FROM THE APPLICABLE UL NUMBER RANGE LISTED ABOVE THAT COMPLIES WITH SPECIFICATION SECTION 07 84 16 "FIRE RESISTIVE JOINT AND PENETRATION SYSTEMS"; AND IS SUITABLE FOR THE PENETRATION CONDITIONS INDICATED FOR THE PROJECT.



NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
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CAL POLY TECH
 PARK - PHASE 2
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SHEET TITLE
FIRE RATING DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
A-911

DATE: MARCH 31, 2023

System No. W-L-3377
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - Less than 1 CFM/Sq Ft (See Item 2)
L Rating At 400 F - Less than 1 CFM/Sq Ft (See Item 2)

1. **Wall Assembly** - The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, U400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
A. **Studs** - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 24 in. (606 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (606 mm) OC.
B. **Gypsum Board** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. See Table for opening sizes.
C. **Hourly F and FH Ratings are dependent upon the hourly rating of the wall in which it is installed.**
D. **Firestop Device** - Series 22 EZ Path device modules consist of 1.4 by 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Series 33 EZ Path device modules consist of 3 by 3 by 10-1/2 in. (76 by 267 mm) long galv steel tube with an intumescent material lining. Series 44+ EZ Path device modules consist of 4 by 4 by 5-8 by 14 in. (102 by 118 by 356 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Firestop device modules secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel screws provided with device. Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. The annular space between the device and opening shall be min 0 in. (point contact) to 3/16 in. (5 mm) for Series 22 device, max 1/2 in. (13 mm) for Series 33 device and max 1/4 in. (6 mm) for Series 44+ device. The opening size and F, Ratings for each device vary according to whether device is blank (no cables) or loaded (with cables) and which cable type and size is used, as indicated in the following table:
SPECIFIED TECHNOLOGIES INC. - EZ PATH Series 22, 33 or 44+ Fire Rated Pathway

Device	Max Cable Fill	Cable Type	L-Rating (CFM)	Opening Size Diam or Dimensions, in. (mm)
Series 22	0%	-	1.4	1.4
Series 22	100%	3A	Less Than 1	1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3F	Less Than 1	1-3/4 x 1-3/4 (44 x 44)
Series 33	0%	-	Less Than 1	3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3A	4	3
Series 33	100%	3F	1.3	3
Series 33	100%	3G, 3H	7	2
Series 33	100%	3I	1.8	1.8
Series 44+	0%	-	Less Than 1	4-1/8 x 4-3/4 (100 x 120)
Series 44+	100%	3A-3I	2.3	2.3

2A. **Firestop Device - Extension Module** - (Optional, Not Shown) - Module attached to ends of Series 33, Series 44 or Series 44+ device to increase its length to facilitate installation in thicker walls. Each module consists of a galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.
SPECIFIED TECHNOLOGIES INC. - EZ PATH Series 33 or Series 44+ Extension
3. **Cables** - Cables may represent a 0 to max 100 percent void fill within the loading area for the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
B. Max 750 kmil single copper conductor power cable with XLPE jacket and insulation.
C. Max 7C No. 24 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
D. Max 3/0 No. 20 AWG metal clad or armored cable with steel or aluminum jacket.
E. Max 3/0 No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
F. Max 4 or No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
G. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
I. Max RG6U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.
When Series 22 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr except that for Items 3F, 3D and 3H, the T, FT and FTH Ratings are 1 hr. When the hourly fire rating of the wall assembly is 2 hr or greater, the T, FT and FTH Ratings are 3/4 hr when cables are installed. When no cables are installed within the device module, the T, FT and FTH Ratings are 1 hr for 1 hr walls and 1-1/2 hr for 2, 3 and 4 hr walls. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr, and when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.
When Series 33 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T, FT and FTH Ratings are 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T, FT and FTH Ratings are 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When Max 200 pair No. 24 AWG telecommunication cable and/or 350 kmil power cable is used or when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.
When Series 44+ EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F and FH Ratings are 3 hr and the T, FT and FTH Ratings are 1 hr. When Item 3F or 3G is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1-1/2 hr. When Item 3H is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 2 hr. When device empty, the T, FT and FTH Ratings are 1-1/2 hr.
*Bearing the UL Classification Mark

System No. W-L-1290
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - Less than 1 CFM/Sq Ft
L Rating at 400 F - Less than 1 CFM/Sq Ft

1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. **Gypsum Board** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4-1/2 in.
C. **Hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Cables** - Aggregate cross-sectional area of cables in steel sleeve to be 45 percent of the aggregate cross-sectional area of the sleeve. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor cable may be used:
A. Max 300 kmil single conductor type MTW, THHN, THWN or AWM power cables; cross-linked polyethylene (XLPE) insulation.
B. Max 4 pair No. 24 AWG telephone cable intended for plenum applications.
C. Max 3/0 No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
3. **Firestop System** - The firestop system shall consist of the following:
A. Fill, Void or Cavity Material - Sealant - (not shown) - Min 1/2 in. diam of sealant shall be applied around the perimeter of the firestop device on each side of the wall.
B. **Firestop Device** - One of the following firestop devices may be used:
1. Smooth steel sleeve device incorporating flat washers secured by sliding compression couplers. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 1, 2 and 4 in. sizes. Max diam of opening in wall for 1, 2 and 4 in. sizes are 1-1/8, 2-1/4 and 4-1/2 in., respectively.
2. Threaded steel sleeve device incorporating flat washers secured by threaded couplings. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 1, 2 and 4 in. sizes. Max diam of opening in wall for 1, 2 and 4 in. size devices are 1-1/8, 2-3/8 and 4-1/2 in., respectively.
3. Threaded steel sleeve device incorporating split nuts and split washers sized to fit the specific diam of the opening. Device shall be installed around cables in accordance with the accompanying installation instructions. Device provided in nom 1, 2 and 4 in. sizes. Max diam of opening in wall for 1, 2 and 4 in size devices are 1-1/4, 2-7/16 and 4-1/2 in. respectively.
UNIQUE FIRE STOP PRODUCTS INC. - Split Sleeve
C. **Packing Material** - (Optional) - Min 1 in. thickness of min 4.0 pfd mineral wool batt insulation firmly packed into each end of firestop device as a permanent form. Packing material to be necessary from each end of firestop device as required to accommodate the required thickness of fill material.
D. **Fill, Void or Cavity Material** - Putty - Min 5/8 in. thickness of fill material applied within the firestop device, flush with both ends.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CP618 Firestop Putty Stick
*Bearing the UL Classification Mark

WALL - CABLES N.T.S. 18

1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. **Gypsum Board** - One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
C. **Hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.**
2. **Through Penetrants** - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space shall be 0 in. (point contact) to 1 in. (25 mm). Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:
A. Steel pipe - Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
B. Conduit - Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
C. Copper Tube - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.
D. Copper Pipe - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annular, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant or FS-One MAX Intumescent Sealant, CFS-S-SIL G Sealant, CP6018 Elastomeric Sealant, CP 608 Sealant or CP618 Putty.
*Bearing the UL Classification Mark

System No. W-L-1290
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - Less than 1 CFM/Sq Ft
L Rating at 400 F - Less than 1 CFM/Sq Ft

1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
B. **Gypsum Board** - Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5 in.
C. **Hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Through Penetrant** - One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:
A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tube - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
E. Copper Covering - Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kmil) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt laps supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm).
3. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annular, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe/wall interface.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CP606 Flexible Firestop Sealant
*Bearing the UL Classification Mark

WALL - PIPE N.T.S. 12

System No. W-L-1410
ANSIUL1479 (ASTM E814) F Ratings - 1 and 2 Hr (See Item 1)
CANULC S115 F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr FT Rating - 0 Hr
FH Ratings - 1 and 2 Hr (See Item 1)
FTH Rating - 0 Hr

1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. **Gypsum Board** - One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
C. **Hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.**
2. **Through Penetrants** - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space shall be 0 in. (point contact) to 1 in. (25 mm). Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:
A. Steel pipe - Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
B. Conduit - Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
C. Copper Tube - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.
D. Copper Pipe - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annular, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant, FS-One MAX Intumescent Sealant, CFS-S-SIL G Sealant, CP6018 Elastomeric Sealant, CP 608 Sealant or CP618 Putty.
*Bearing the UL Classification Mark

System No. W-L-5257
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - 4 CFM/Sq Ft (See Item 4)
L Rating at 400 F - Less than 1 CFM/Sq Ft (See Item 4)

1. **Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. **Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).
C. **Hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Through Penetrant** - One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:
A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tube - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
E. Pipe Covering - Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kmil) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt laps supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm).
3. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annular, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe/wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant, CP 608 Sealant or CP 601S Sealant
*Bearing the UL Classification Mark

WALL - INSULATED PIPE N.T.S. 7

System No. W-J-3190
ANSIUL1479 (ASTM E814) F Ratings - 2 and 3 Hr (See Item 3)
CANULC S115 F Ratings - 2 and 3 Hr (See Item 3)
T Rating - 0 Hr FT Rating - 0 Hr
FH Ratings - 2 and 3 Hr (See Item 3)
FTH Rating - 0 Hr

1. **Wall Assembly** - Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in. (102 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Cables** - Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 7/8 in. (22 mm). Cables to be tightly bundled and rigidly supported on both sides of the wall (89 mm) wide and spaced max 24 in. (610 mm) OC.
A. Max 7C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
C. Max 4 or No. 22 AWG Cat 5 or Cat 6 computer cables.
D. Type RGU coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/2 in. (13 mm).
E. INCH RG6 coaxial cable with fluorinated ethylene insulation and jacketing.
F. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
G. Max three copper conductor No. 8 AWG Metal-Clad Cable*.
H. Max 3/0 (with ground) (or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
I. Through Penetrating Product** - Any cables, Metal-Clad Cable* or Armored Cable* currently Classified under the Through Penetrating Products category.
3. **Fill, Void or Cavity Material** - Sealant - Fill material applied within the annular, flush with both surfaces of wall.
Min 5/8 in. (16 mm) thickness of sealant is required for 2 hr F Rating. A min. 1 in. (25 mm) thickness of sealant is required for the 3 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the point contact location of cable bundle/concrete interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CP606, FS-One Sealant or FS-One MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
**Bearing the UL Listing Mark

FIRE BLOCKING AND DRAFT STOPPING

718.1 GENERAL FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATIONS AND UNFINISHED SPACES. FIREBLOCKING SHALL COMPLY WITH SECTION 718.2 DRAFTSTOPPING IN FLOOR/CELING SPACES AND ATTIC SPACES SHALL COMPLY WITH SECTIONS 718.3 AND 718.4, RESPECTIVELY. THE PERMITTED USE OF COMBUSTIBLE MATERIALS IN CONCEALED SPACES OR BUILDINGS OF TYPE I OR II CONSTRUCTION SHALL BE LIMITED TO THE APPLICATIONS INDICATED IN SECTION 718.5.

718.2 FIREBLOCKING, IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE. FIREBLOCKING SHALL BE INSTALLED IN THE LOCATIONS SPECIFIED IN SECTIONS 718.2 THROUGH 718.2.7.

718.2.1 FIREBLOCKING MATERIALS. FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS:
1. TWO-INCH (51 MM) NOMINAL LUMBER.
2. TWO THICKNESSES OF 1/2-INCH (12.5 MM) NOMINAL LUMBER WITH BROKEN LAP JOINTS.
3. ONE THICKNESS OF 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS.
4. ONE THICKNESS OF 0.75-INCH (19.1 MM) PARTICLEBOARD WITH JOINTS BACKED BY 0.75-INCH (19 MM) PARTICLEBOARD.
5. ONE-HALF-INCH (12.7 MM) GYPSUM BOARD.
6. ONE-FOURTH-INCH (6.4 MM) CEMENT-BASED MORTAR BOARD.
7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
8. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.

718.2.1.1 BATTS OR BLANKETS OF MINERAL WOOL OR MINERAL BATTS OR BLANKETS OF MINERAL WOOL OR MINERAL FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10-FOOT (3048 MM) HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.

718.2.1.2 UNFACED FIBERGLASS, UNFACED FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS SECTION OF THE WALL CAVITY TO A MINIMUM HEIGHT OF 16 INCHES (408 MM) MEASURED VERTICALLY. WHEN PIPING, CONDUIT OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION.

718.2.1.3 LOOSE-FILL INSULATION MATERIAL. LOOSE-FILL INSULATION MATERIAL, INSULATING FOAM SEALANTS AND CAULK MATERIALS SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES.

718.2.1.4 FIREBLOCKING INTEGRITY. THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED:
718.2.1.5 DOUBLE STUD WALLS, BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE ALLOWED AS FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.

718.2.2 CONCEALED WALL SPACES. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).

718.2.3 CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, PARTITIONS, AND HORIZONTAL FIREBLOCKS AT CEILING LEVELS. SUCH SPACES SHALL OCCUR AT SOFFITS, DROP CEILING, COVE CEILING AND SIMILAR LOCATIONS.

718.2.4 STAIRWAYS. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH SECTION 1009.9.3.

718.2.5 CEILING AND FLOOR OPENINGS, WHERE REQUIRED BY SECTION 712.1.7, EXCEPTION 1 OF SECTION 714.4.1.2 OR SECTION 714.4.2, FIREBLOCKING OF THE ANNULAR SPACE AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING LEVELS SHALL BE PROVIDED AND SHALL BE INSTALLED WITH A MATERIAL SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

718.2.5.1 FACTORY-BUILT CHIMNEYS AND FIREPLACES. FACTORY-BUILT CHIMNEYS AND FIREPLACES SHALL BE INSTALLED IN ACCORDANCE WITH UL 103 AND UL 127.

718.2.6 EXTERIOR WALL COVERINGS. FIREBLOCKING SHALL BE INSTALLED WITHIN CONCEALED SPACES OF EXTERIOR WALLS, EXTERIOR AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN SECTION 1406 OR WHERE ERECTED WITH COMBUSTIBLE FRAMES. FIREBLOCKING SHALL BE INSTALLED AT MAXIMUM INTERVALS OF 10 FEET (3048 MM) IN EITHER DIRECTION SO THAT THERE WILL BE NO CONCEALED SPACE EXCEEDING 100 SQUARE FEET (9.3 M²) BETWEEN FIREBLOCKING, WHERE WOOD FURRED STRIPS ARE USED, THEY SHALL BE OF APPROVED WOOD OF NATURAL DECAY RESISTANCE OR PRESERVATIVE-TREATED WOOD. IF NONCOMBUSTIBLE, SUCH ELEMENTS SHALL HAVE CLOSED ENDS, WITH AT LEAST 4 INCHES (102MM) OF SEPARATION BETWEEN SECTIONS. EXCEPTIONS:
1. FIREBLOCKING OF CORNICES IS NOT REQUIRED IN SINGLE FAMILY DWELLINGS.
2. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED ONLY AT THE LINE OF DWELLING UNIT SEPARATION.
3. FIREBLOCKING SHALL NOT BE REQUIRED WHERE THE EXTERIOR WALL COVERING IS INSTALLED ON NONCOMBUSTIBLE FRAMING AND THE FACE OF THE EXTERIOR WALL COVERING EXPOSED TO THE CONCEALED SPACE IS COVERED BY ONE OF THE FOLLOWING MATERIALS:
A. ALUMINUM HAVING A MINIMUM THICKNESS OF 0.019 INCH (0.5 MM).
B. CORROSION-RESISTANT STEEL HAVING A BASE METAL THICKNESS NOT LESS THAN 0.016 INCH (0.4 MM) AT ANY POINT.
C. OTHER APPROVED NONCOMBUSTIBLE MATERIALS.
3. FIREBLOCKING SHALL NOT BE REQUIRED WHERE THE EXTERIOR WALL COVERING HAS BEEN TESTED IN ACCORDANCE WITH AND COMPLIES WITH THE ACCEPTANCE CRITERIA OF NFPA 285. THE EXTERIOR WALL COVERING SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH NFPA 285.

718.2.7 CONCEALED SLEEPER SPACES. WHERE WOOD SLEEPERS ARE USED FOR LAYING WOOD FLOORING ON MASONRY OR CONCRETE FIRE-RESISTANCE-RATED FLOORS, THE SPACE BETWEEN THE FLOORING AND THE UNDERLIE OF THE FLOORING SHALL BE FILLED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION OR FIREBLOCKING IN SUCH A MANNER THAT THERE WILL BE NO OPEN SPACES UNDER THE FLOORING THAT EXCEED 100 SQUARE FEET (9.3 M²) IN AREA AND SUCH SPACE SHALL BE FILLED SOLIDLY UNDER PERMANENT PARTITIONS SO THAT THERE IS NO COMMUNICATION UNDER THE FLOORING BETWEEN ADJOINING ROOMS. EXCEPTIONS:
1. FIREBLOCKING IS NOT REQUIRED FOR SLAB-ON-GRADE FLOORS IN GYMNASIUMS.
2. FIREBLOCKING IS REQUIRED ONLY AT THE JUNCTURE OF EACH ALTERNATE JANE AND AT THE ENDS OF EACH FLOOR JOIST AND THE UNDERLIE OF A ROWING FACILITY.
718.3 DRAFTSTOPPING IN FLOORS. IN COMBUSTIBLE CONSTRUCTION, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE FLOOR/CELING ASSEMBLIES IN THE LOCATIONS PRESCRIBED IN SECTIONS 718.3.1 THROUGH 718.3.3.
718.3.1 DRAFTSTOPPING MATERIALS. DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 1/2-INCH (12.5 MM) GYPSUM BOARD, 3/8-INCH (9.5 MM) WOOD STRUCTURAL PANEL, 3/8-INCH (9.5 MM) PARTICLEBOARD, 1/2-INCH (12.5 MM) NOMINAL LUMBER, CEMENT FIBERBOARD, BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER, OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED.
718.3.3 OTHER GROUPS. IN OTHER GROUPS, DRAFTS TOPPING SHALL BE INSTALLED SO THAT HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SQUARE FEET (93 M²). EXCEPTIONS:
1. IN OTHER THAN GROUP A, E, H, I, LAND R-2.1 OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.
2. IN GROUP A, E, H, I, AND I OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS SHALL EXCEED 1,000 SQUARE FEET (279 M²) AND THE GREATEST HORIZONTAL DIMENSION MAY BE 100 FEET (30480 MM).

718.4 DRAFTSTOPPING IN ATTICS. IN COMBUSTIBLE CONSTRUCTION, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE ATTIC SPACES AND CONCEALED ROOF SPACES IN THE LOCATIONS PRESCRIBED IN SECTIONS 718.4.2 AND 718.4.3. VENTILATION OF CONCEALED ROOF SPACES SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 1203.2.

718.4.1 DRAFTSTOPPING MATERIALS. MATERIALS UTILIZED FOR DRAFTSTOPPING OF ATTIC SPACES SHALL COMPLY WITH SECTION 718.3.1.
718.4.1.1 OPENINGS. OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.
718.4.3 OTHER GROUPS. DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET (279 M²). EXCEPTIONS:
1. IN OTHER THAN GROUP A, E, H, I, AND LAND R-2.1 OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.
2. IN GROUP E, H, I, AND R-2.1 OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET (836 M²) AND THE GREATEST HORIZONTAL DIMENSION MAY BE 100 FEET (30480 MM).

CABLE @ RATED WALL W-L-3377 N.T.S. 24

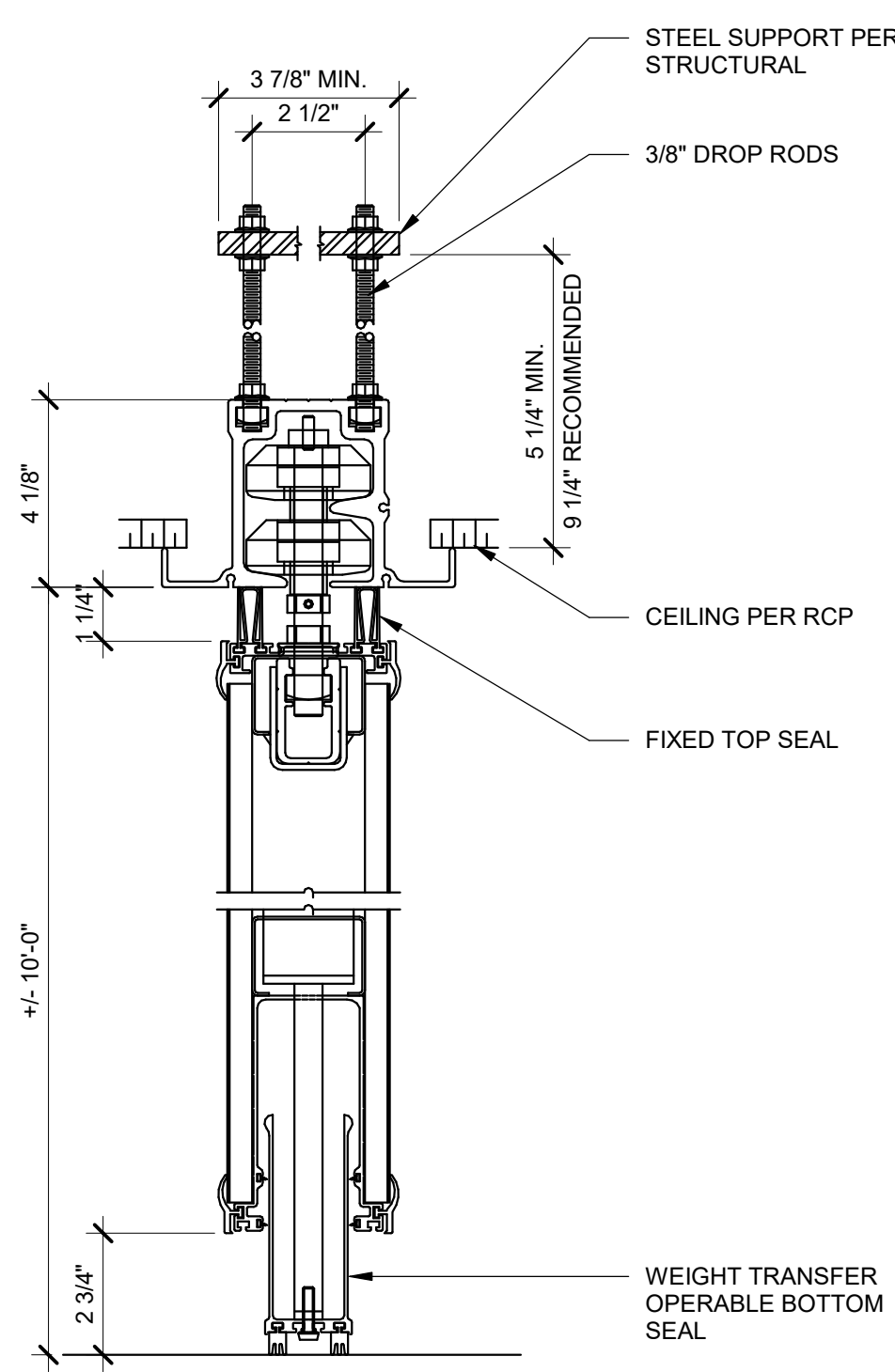
System No. F-C-1059
ANSIUL1479 (ASTM E814) F Rating - 1 and 2 Hr
CANULC S115 F Rating - 1 and 2 Hr
T Rating - 1 and 2 Hr FT Rating - 1 and 2 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft FH Rating - 1 and 2 Hr
L Rating At 400 F - 4 CFM/Sq Ft FTH Rating - 1 and 2 Hr
W Rating - Class 1 (See Item 4) L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

1. **Floor-Ceiling Assembly** - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The F, FH Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The T, FT and FTH Rating of the firestop system is 0 hr for 1 hr rated floor ceiling assembly and 1/2 hr for 2 hr rated floor ceiling assembly. The general construction features of the floor-ceiling assembly are summarized below:
A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 7-5/8 in. (194 mm).
B. **Wood Joists** - Nom 10 in (254 mm) deep (or deeper) lumber or combination lumber and steel joists, trusses or Structural Wood Members** with bridging as required and with ends separated from such penetrations on the opposite side of the wall by up to a 2-hour rating provided they are separated from such penetrations on the opposite side of the wall by at least 24 inches. A distance equal to the depth of the wall if filled with cellulose loose-fill rockwool mineral wool, solid fireblocking, or listed putty pads. [714.3.2 CBC]
C. **Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Designs.
2. **Through Penetrants** - One metallic tubing, pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. (6 mm) and max 3/4 in. (19 mm). Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes or conduits may be used:
A. Steel Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Iron Pipe - Nom 6 in. (152 mm) diam (or smaller) cast or ductile pipe.
C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
D. Steel Flexible Metal Conduit - Nom 6 in. (152 mm) diam (or smaller) steel flexible metal conduit.
E. See Flexible Metal Conduit (DUXZ) category in the Electrical Construction Materials Directory for names of manufacturers.
3. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. (19 mm) thickness of sealant applied within annular space, flush with top surface of floor or sole plate.
HILTI INC. - FS-One Sealant or FS-One MAX Intumescent Sealant
* Indicates such products shall bear the UL certification Mark for jurisdictions employing the UL certification Mark

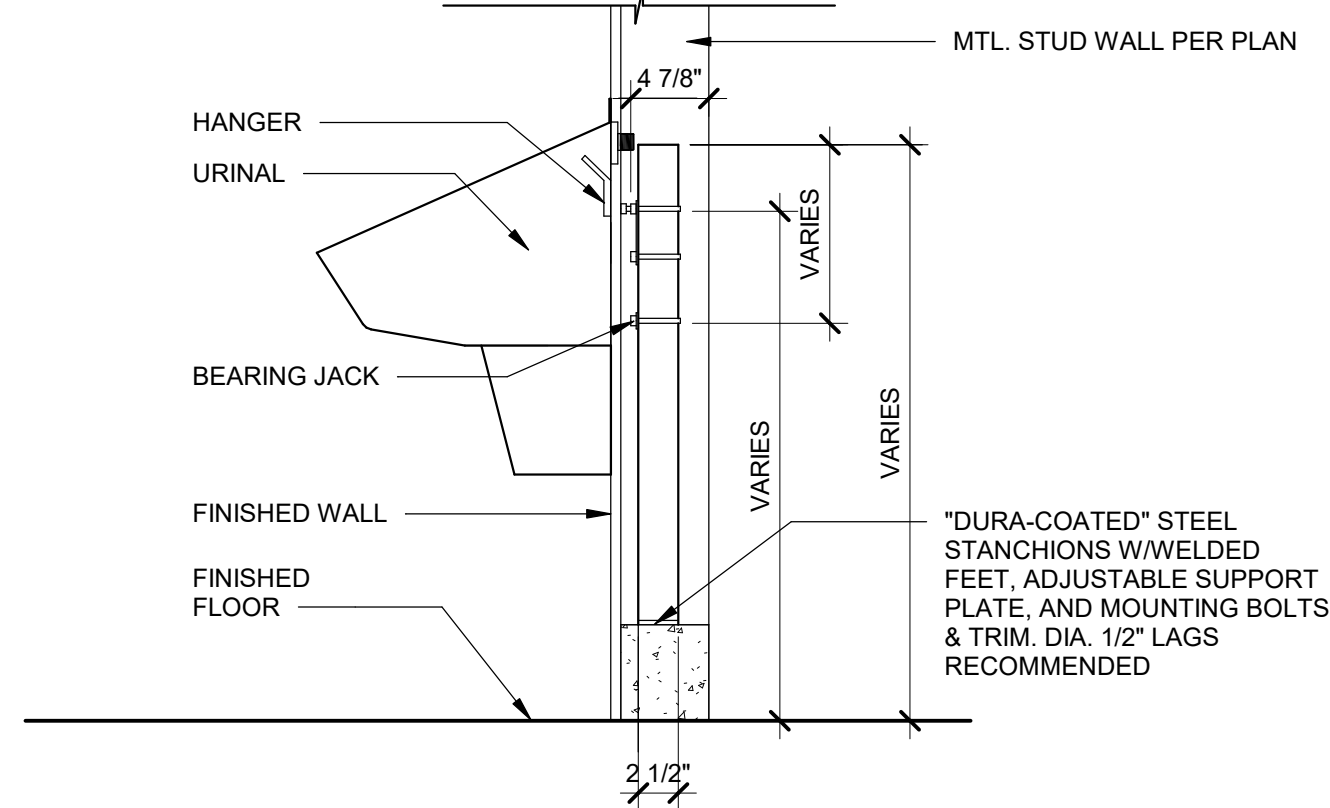
1 HR 5-SIDED BOX N.T.S. 19

System No. W-L-1410
ANSIUL1479 (ASTM E814) F Ratings - 1 and 2 Hr (See Item 1)

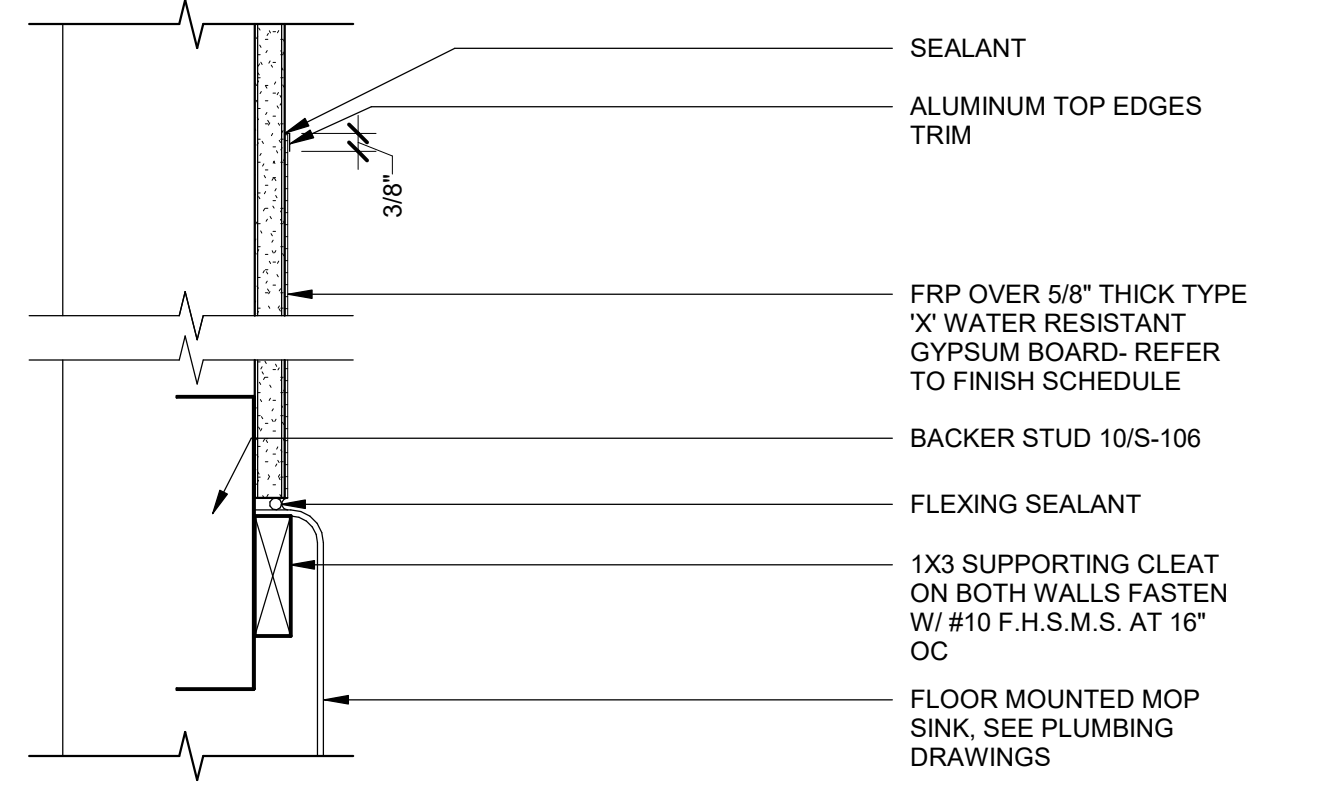
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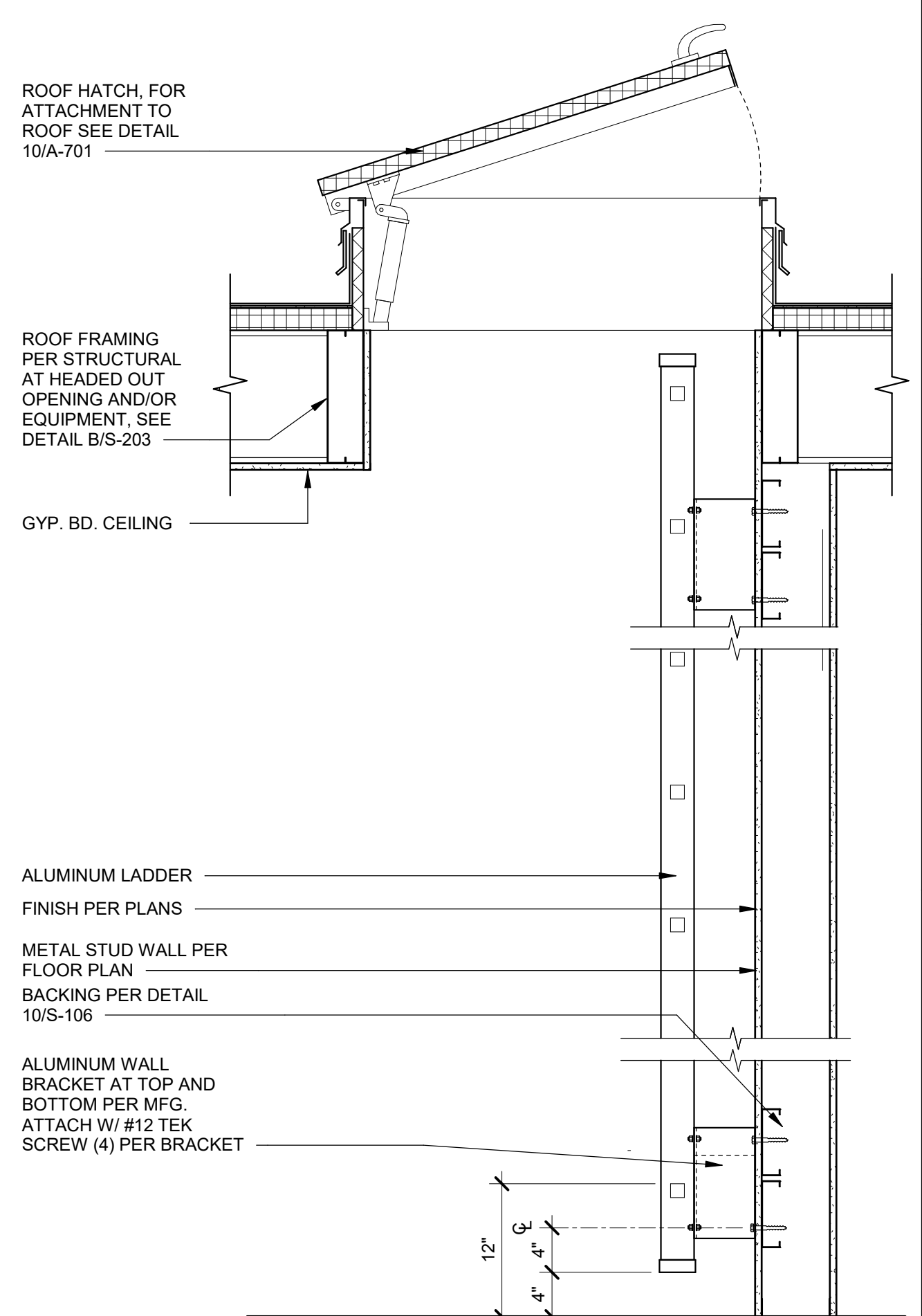
OPERABLE WALL SECTION 3" = 1'-0" 21



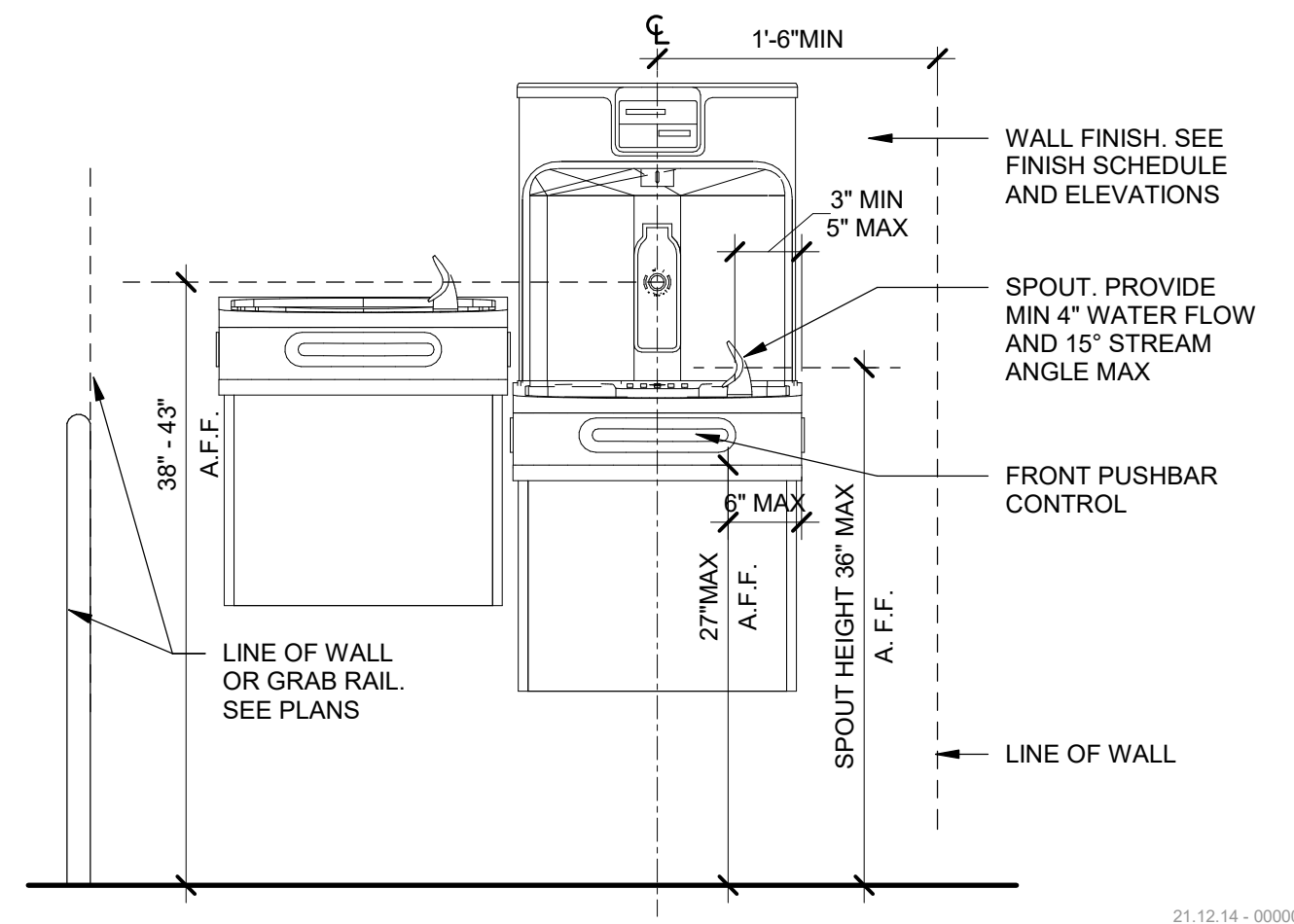
URINAL INSTALLATION 1" = 1'-0" 6



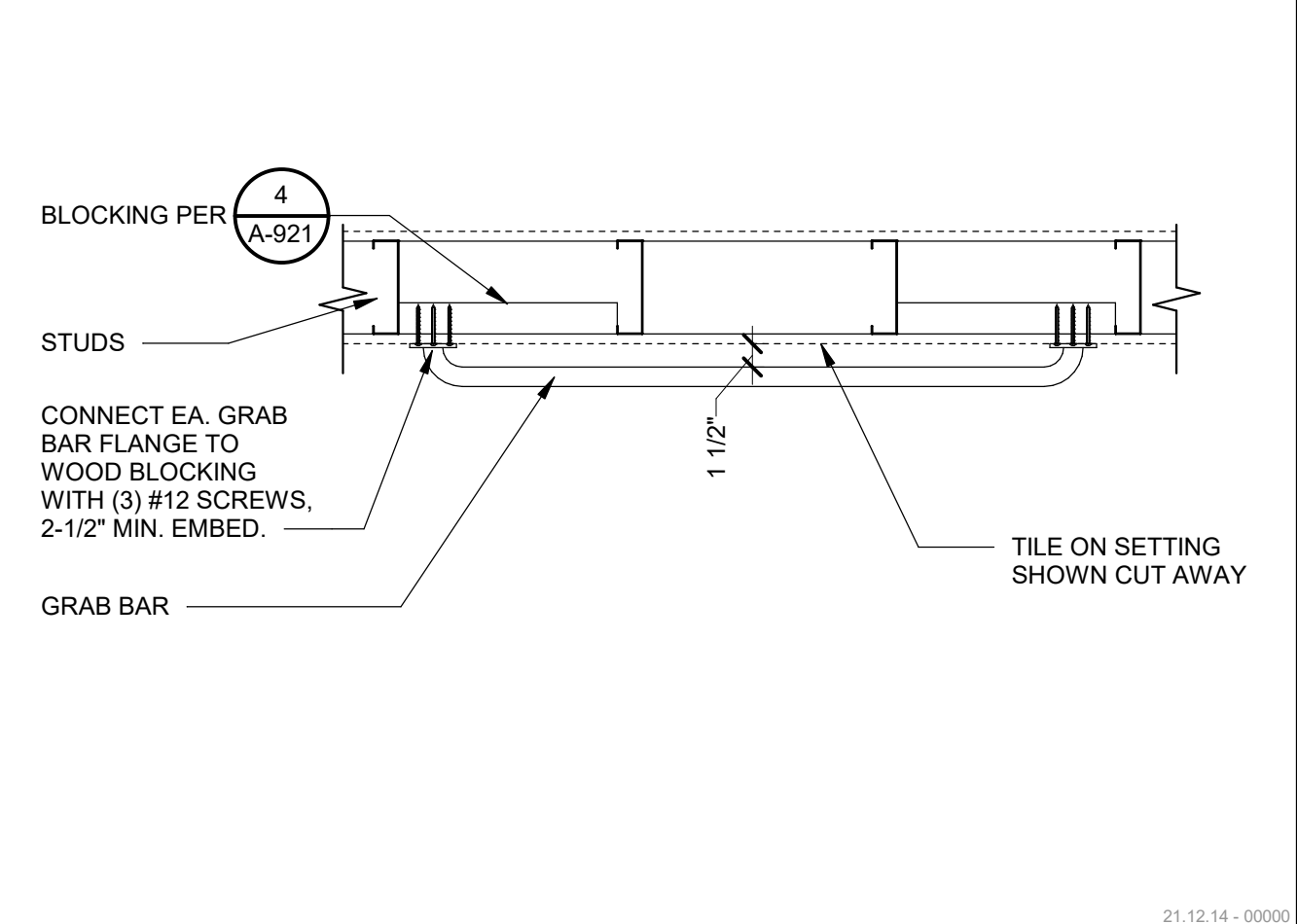
GYPSUM BOARD & FRP @ MOP SINK 3" = 1'-0" 7



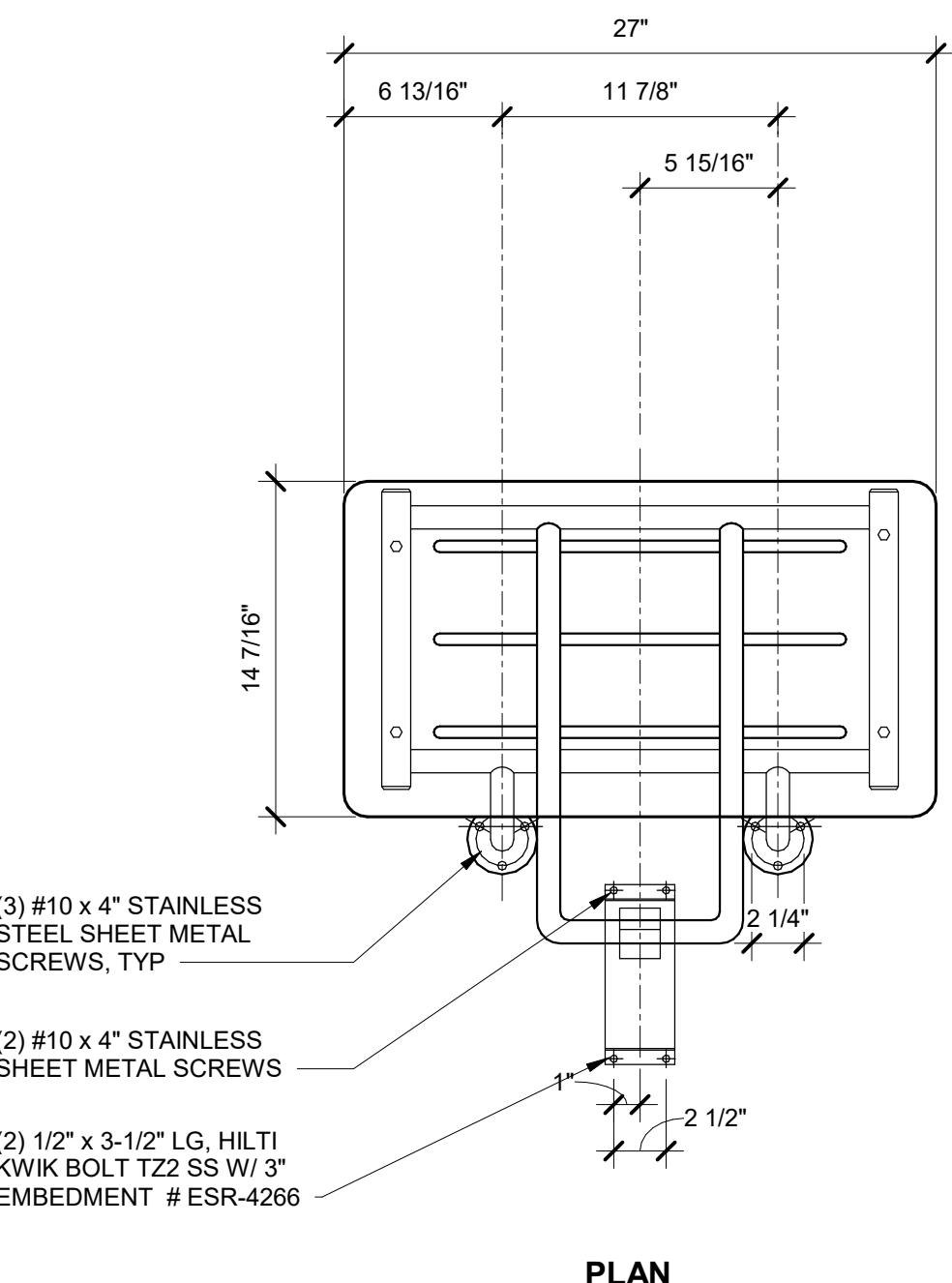
ACCESS LADDER 1" = 1'-0" 2



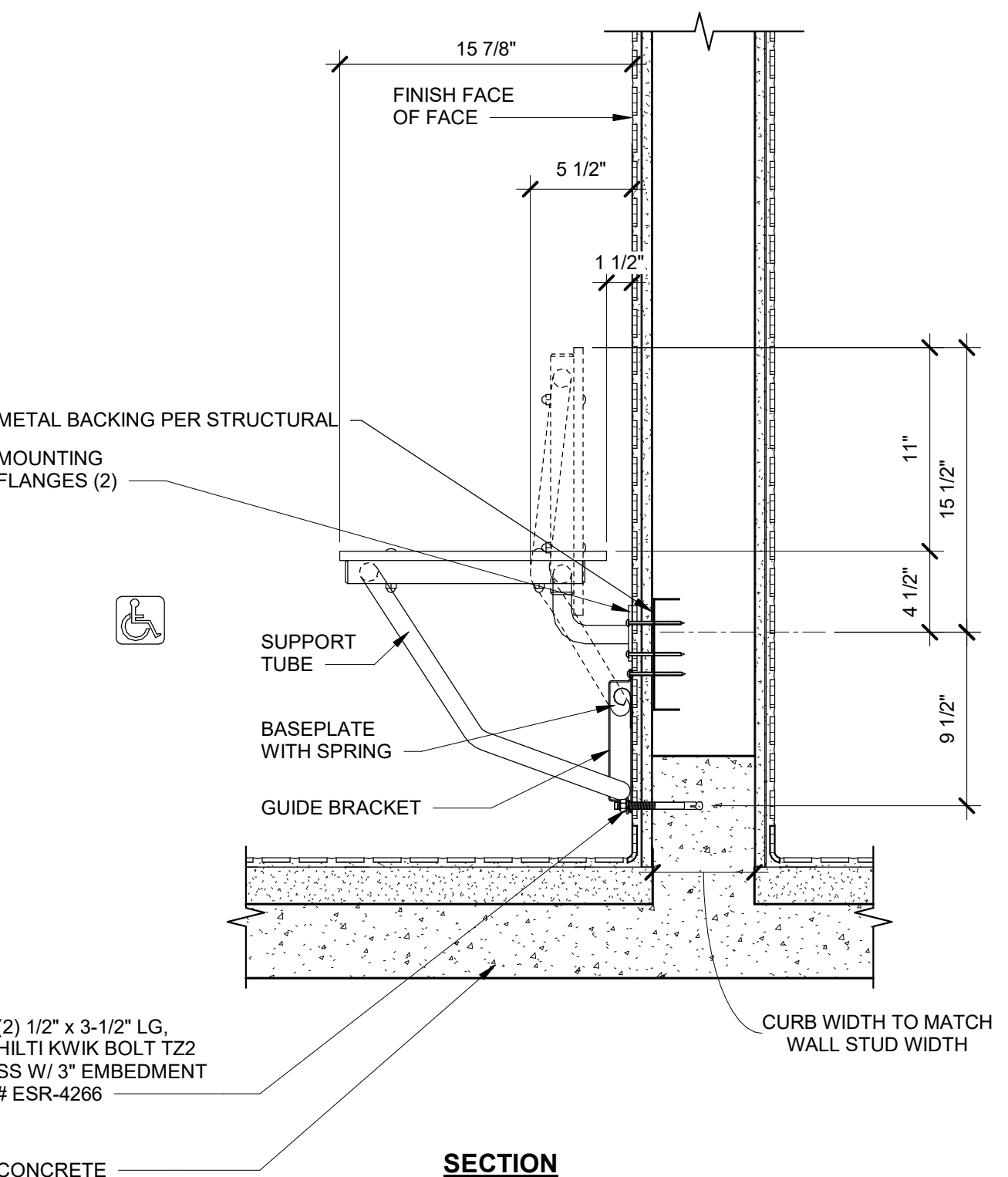
ACC. HYDRATION STATION ELEVATION 1" = 1'-0" 8



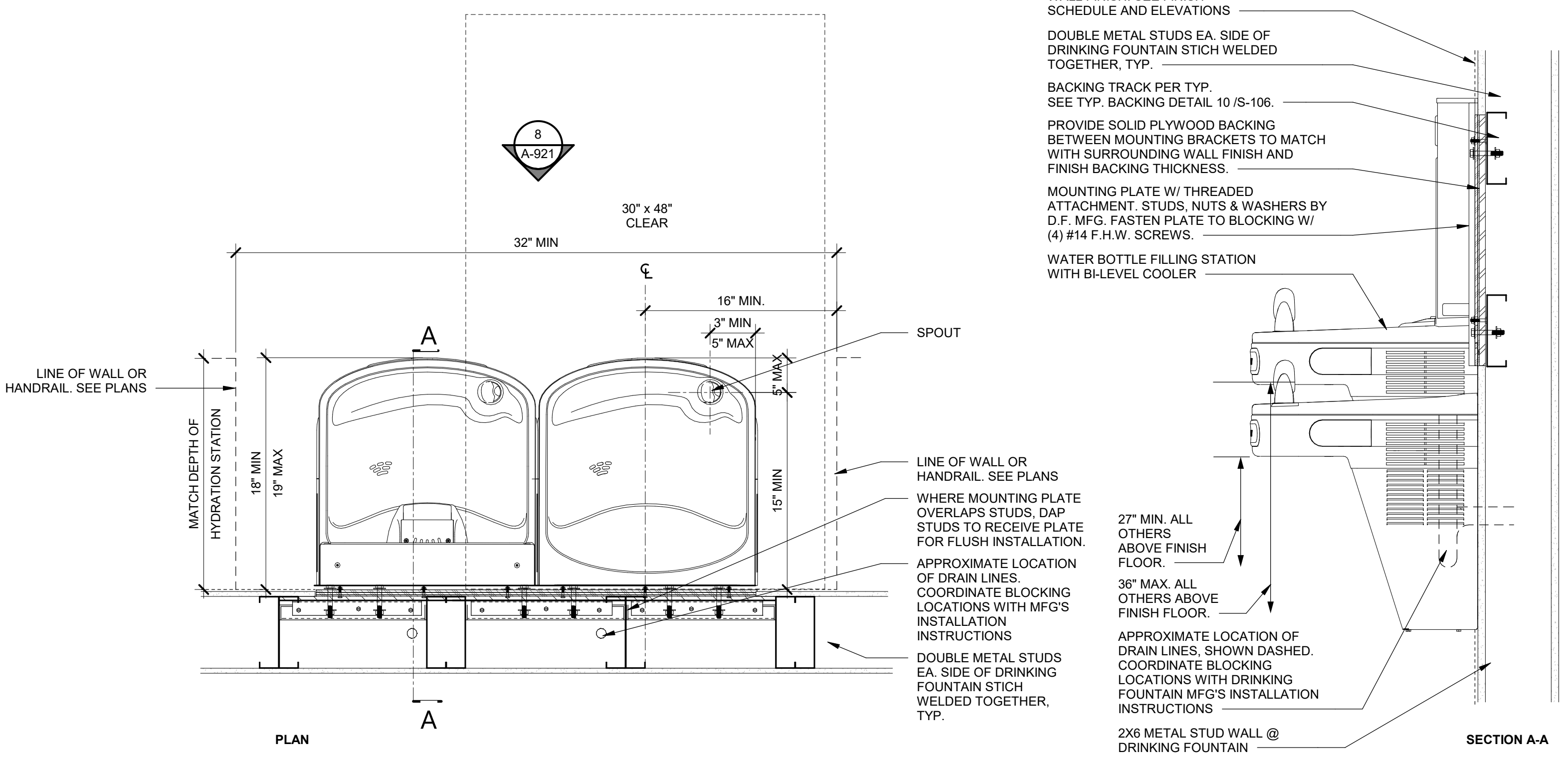
GRAB BAR BLOCKING - PLAN 1" = 1'-0" 3



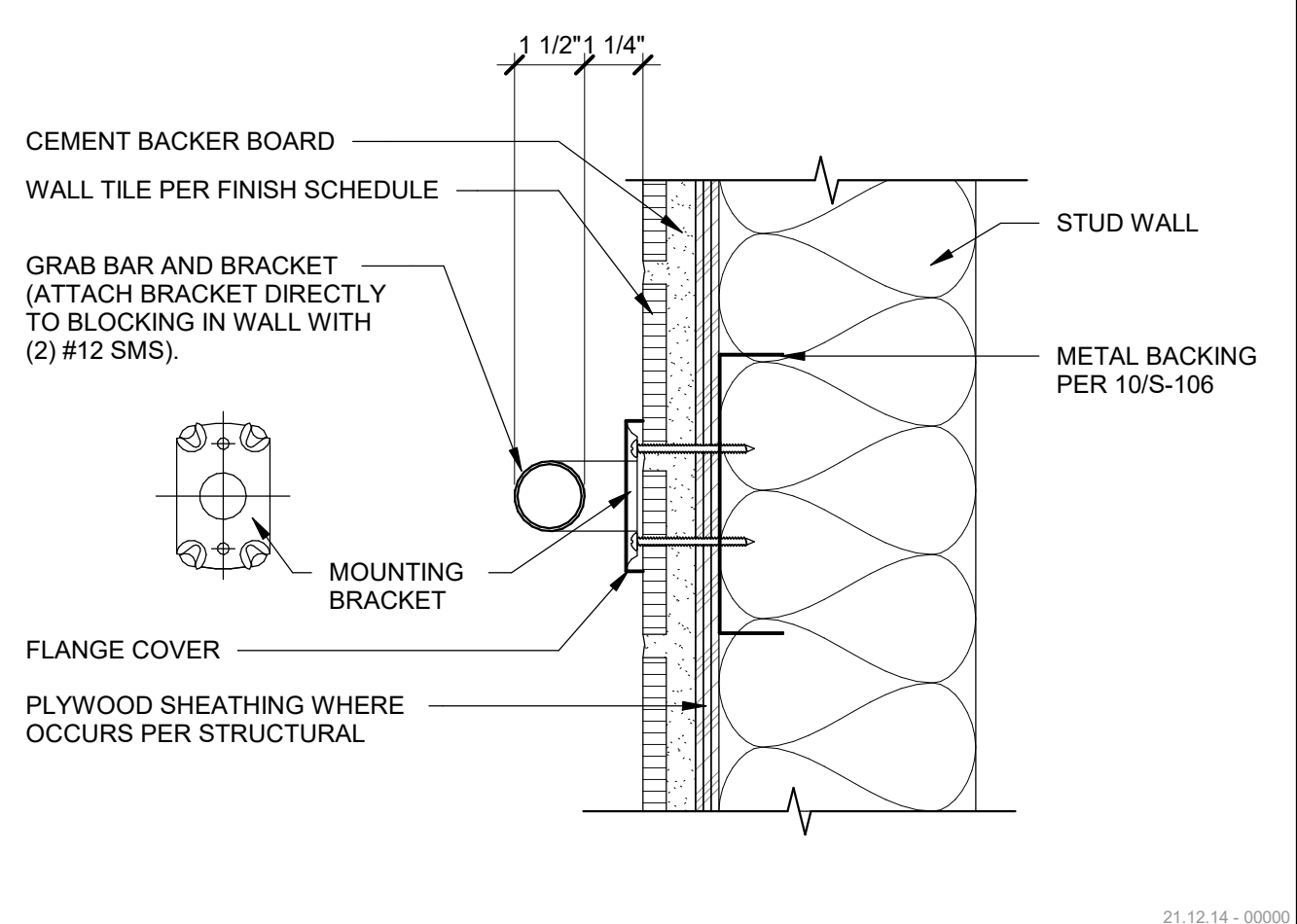
PLAN



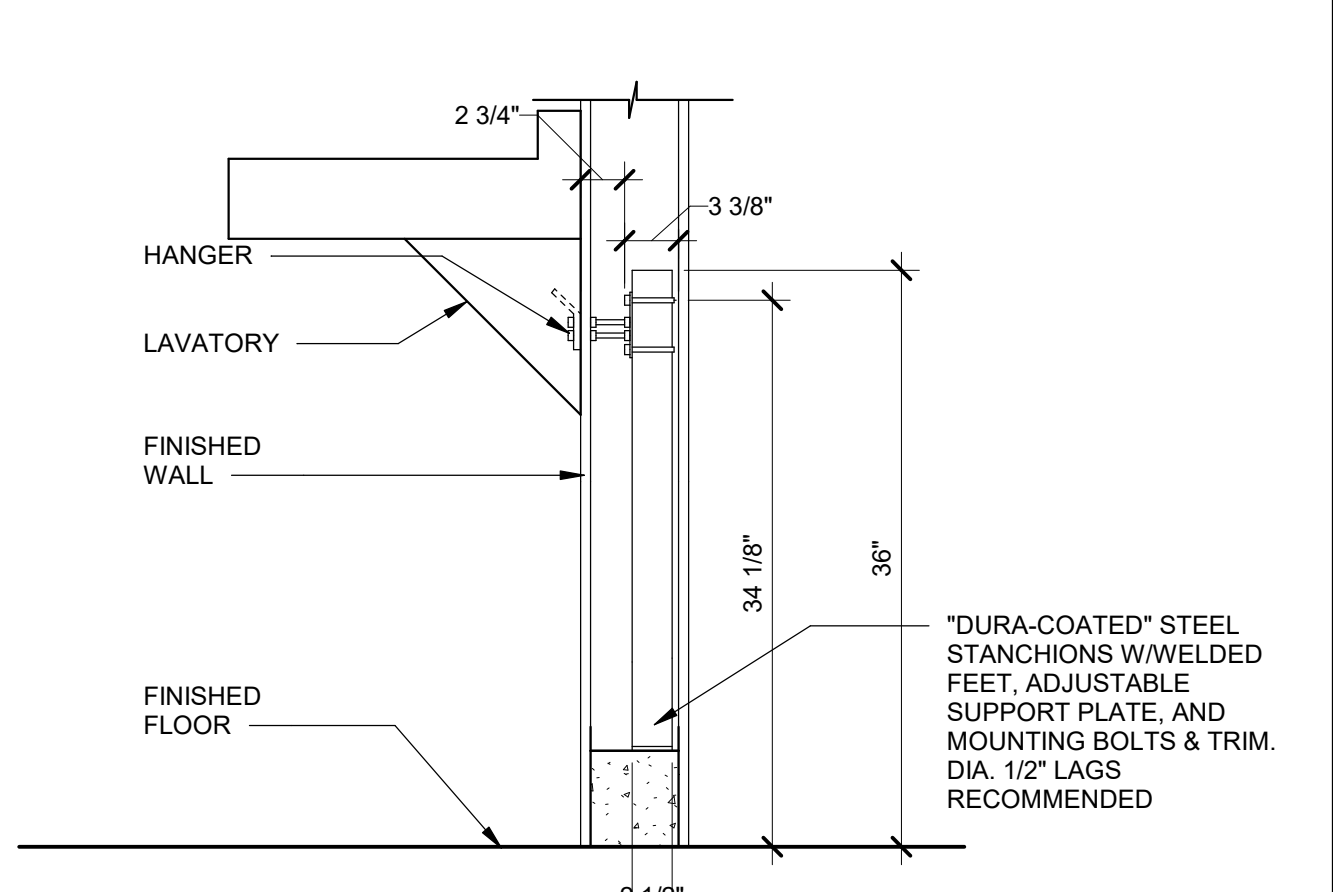
ACCESSIBLE SHOWER BENCH 1 1/2" = 1'-0" 25



ACCESSIBLE HYDRATION STATION 1 1/2" = 1'-0" 10



GRAB BAR BLOCKING - METAL 3" = 1'-0" 4



LAVATORY MOUNTING 1" = 1'-0" 5

AGENCY APPROVAL **CSU** 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: **DS** 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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M.E.P. ENGINEER
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MONROVIA, CA 91016
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FIRE PROTECTION ENGINEER
ALPHA FIRE UNLIMITED
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FIRE ALARM ENGINEER
DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR. SUITE C
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ARCHITECT STAMP
CONSULTANT STAMP

LICENSED ARCHITECT
AIA 02618788
Alfonso Estrada
C-22474
REN 10-31-25
STATE OF CALIFORNIA

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

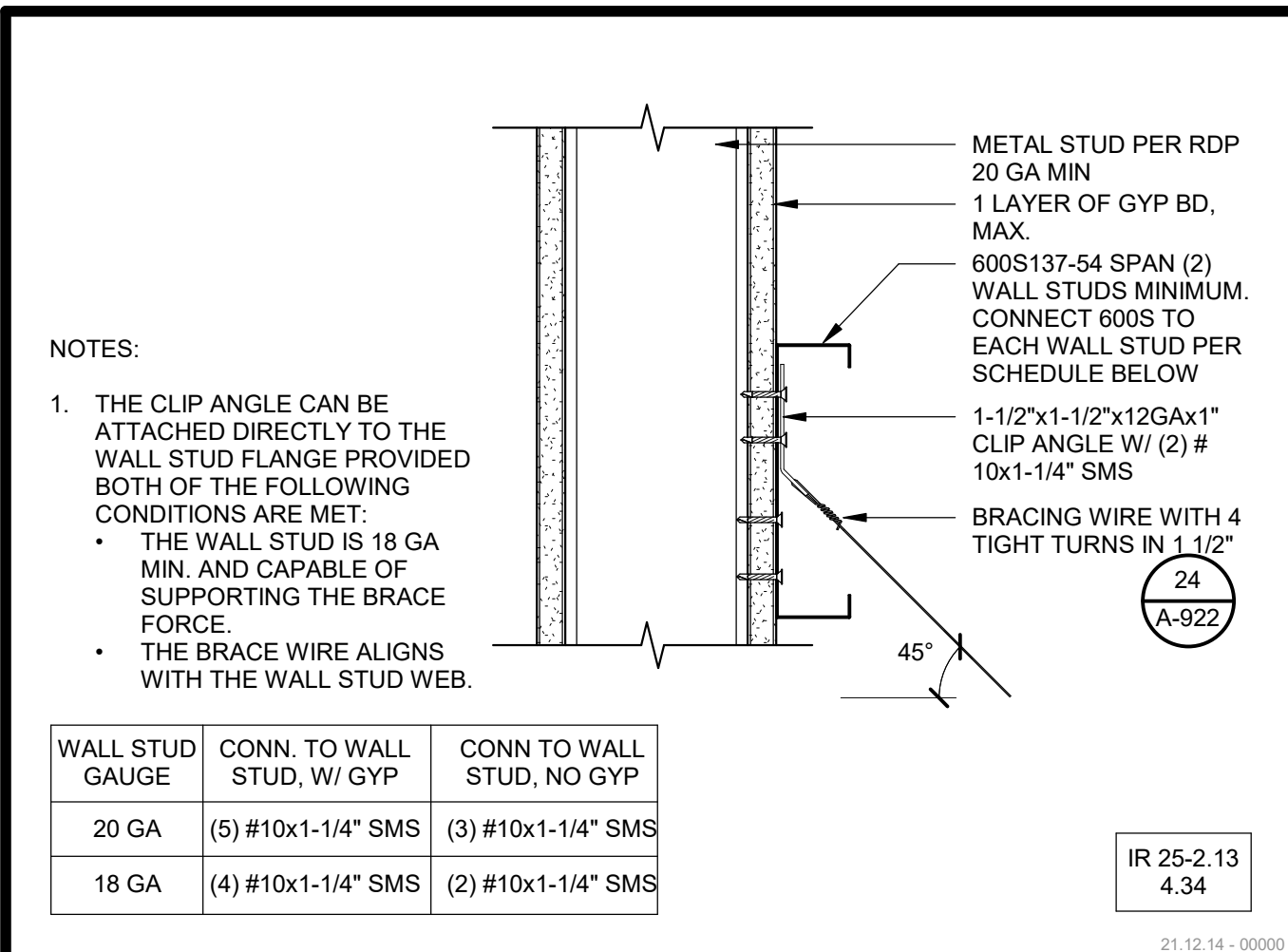
CAL POLY TECH PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
INTERIOR DETAILS

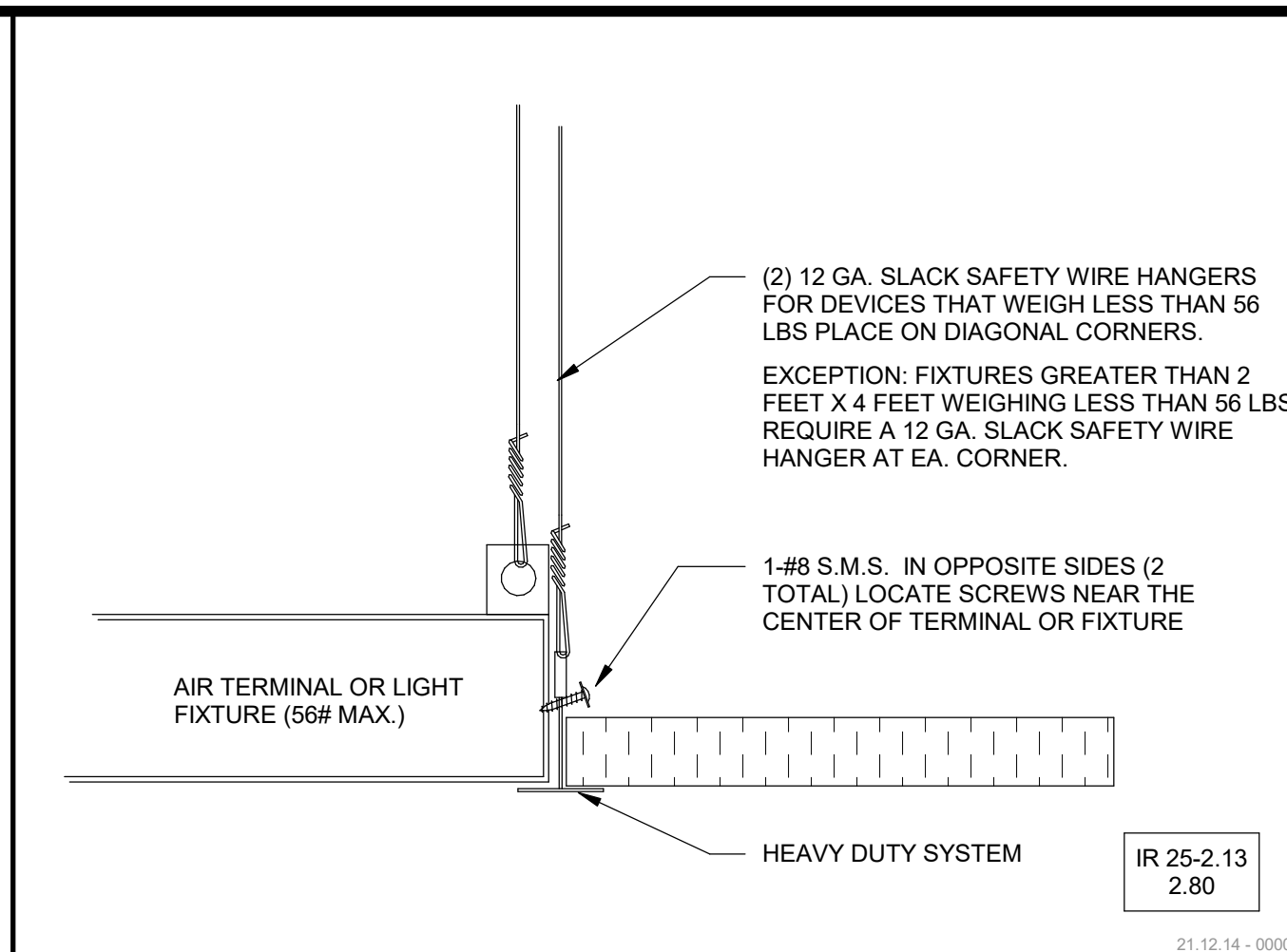
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SHEET NO.
A-921
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

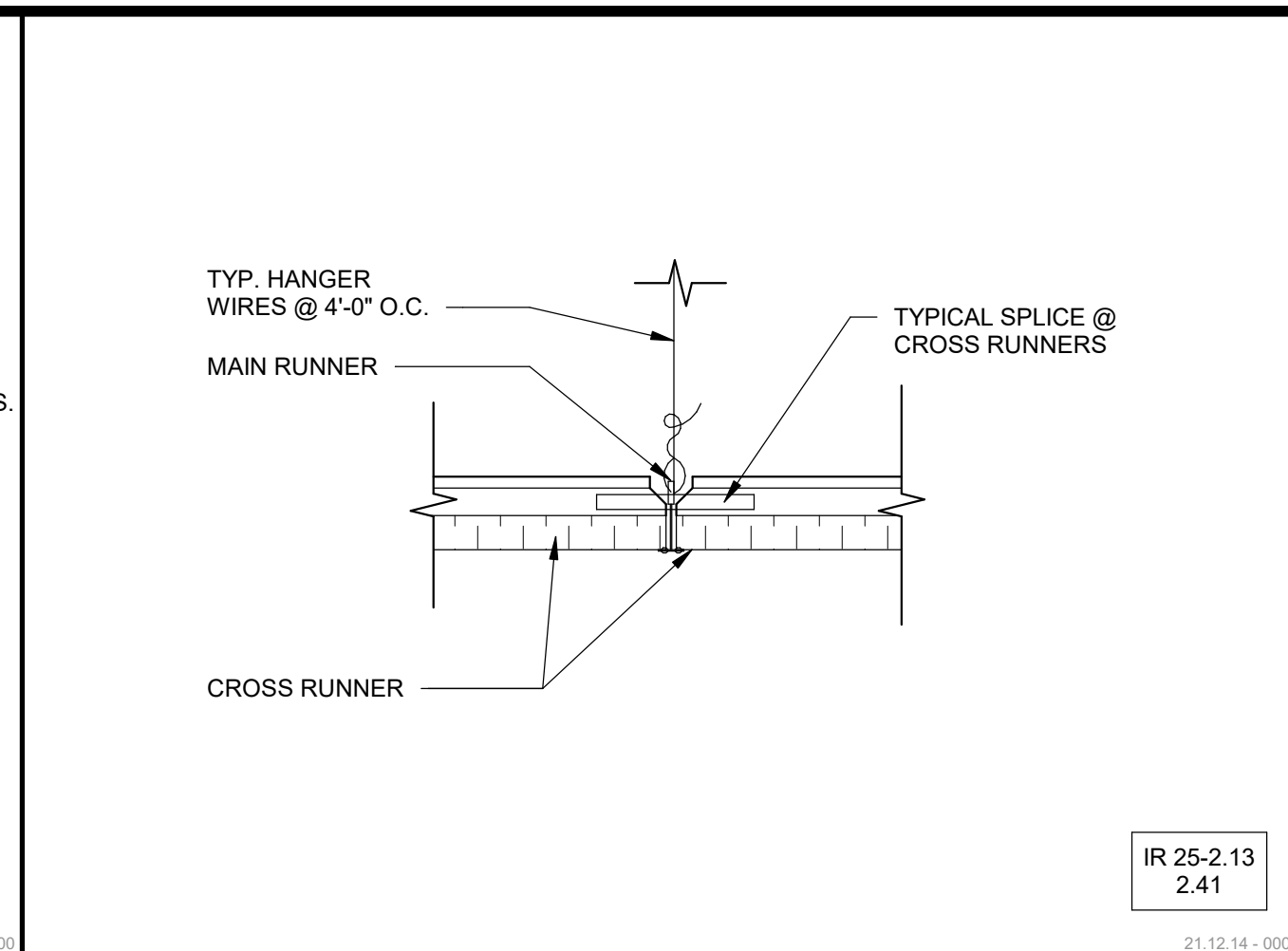
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18 GA	(4) #10x1-1/4\"/>	



WALL STUD GAUGE	CONN. TO WALL STUD, W/ GYP	CONN. TO WALL STUD, NO GYP
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18 GA	(4) #10x1-1/4\"/>	

1. CEILING SYSTEM GENERAL NOTES:
 1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.
 1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
 1.03 CEILING SYSTEMS (THE FOLLOWING CEILING SYSTEMS) IS/ARE PART OF THE SCOPE OF THIS PROJECT. (FOR EACH SYSTEM USED, THE RDP SHALL INDICATE IN THE CONSTRUCTION DOCUMENTS, THE INFORMATION THAT FOLLOWS)
 MANUFACTURER'S NAME: **ARMSTRONG**
 PRODUCT EVALUATION REPORT TYPE AND NUMBER: **ESR-1308**
 MANUFACTURER'S MODEL NUMBER - MAIN RUNNER: **6101HRC**
 MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER: **XL6140HRC**
 1.04 SEISMIC WALL CLIP:
 MANUFACTURER'S MODEL: **SEISMIC RXP**
 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 3/4\"/>

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 RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. 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.
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7. SERVICES WITHIN THE CEILING:
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 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.
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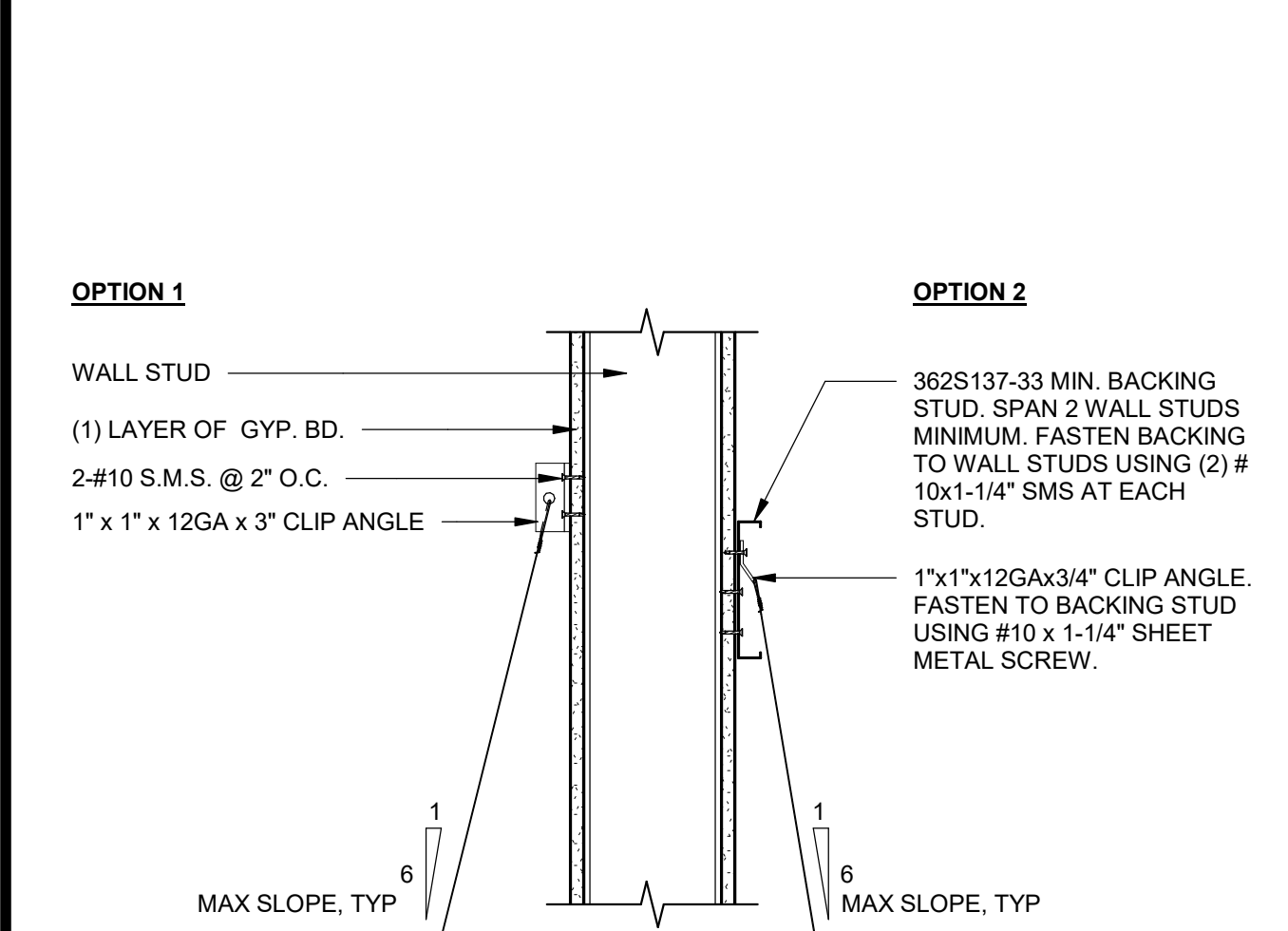
AGENCY APPROVAL **CSU** 03-122864

CSU The California State University
OFFICE OF FIRE SAFETY

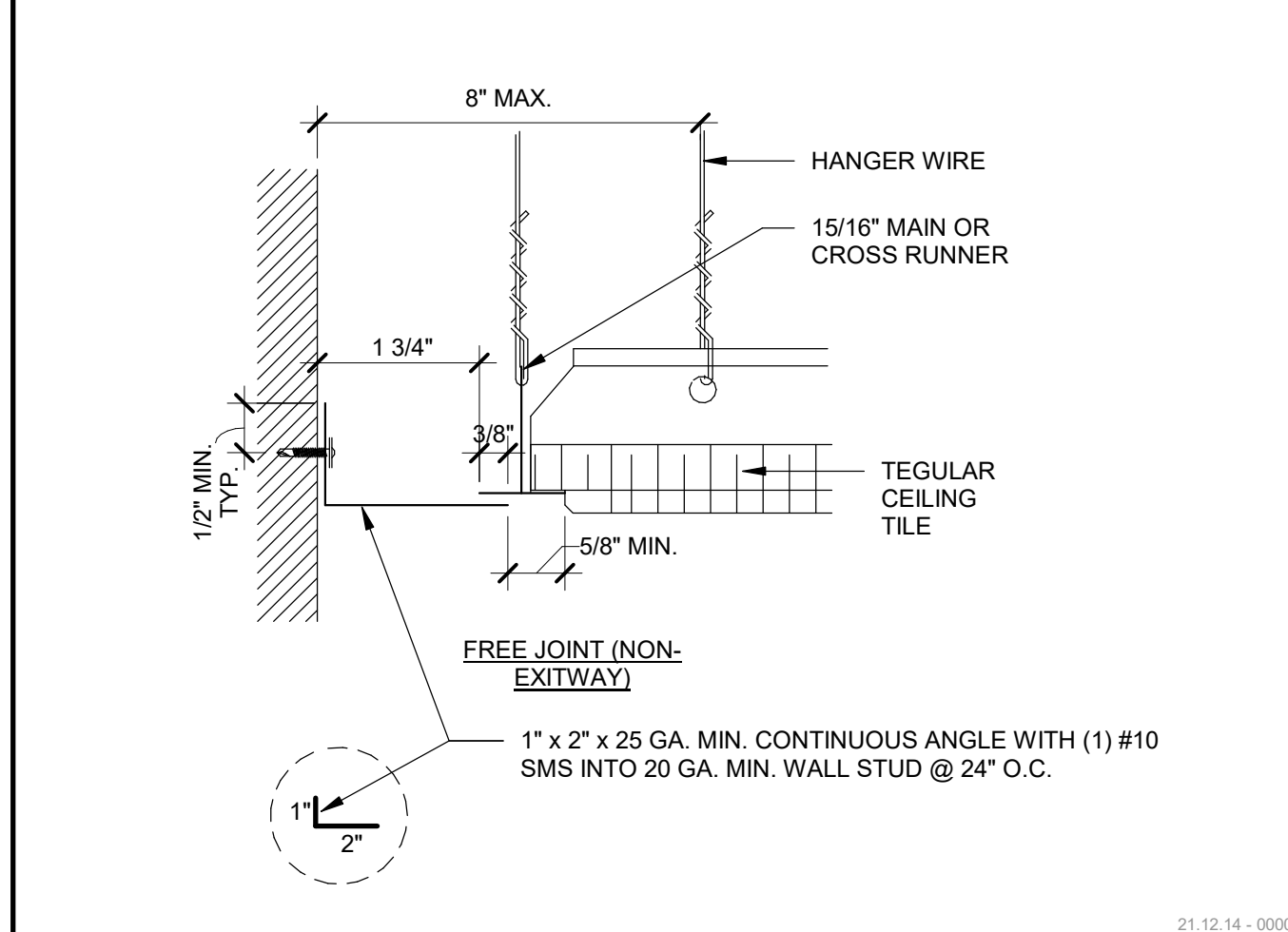
CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

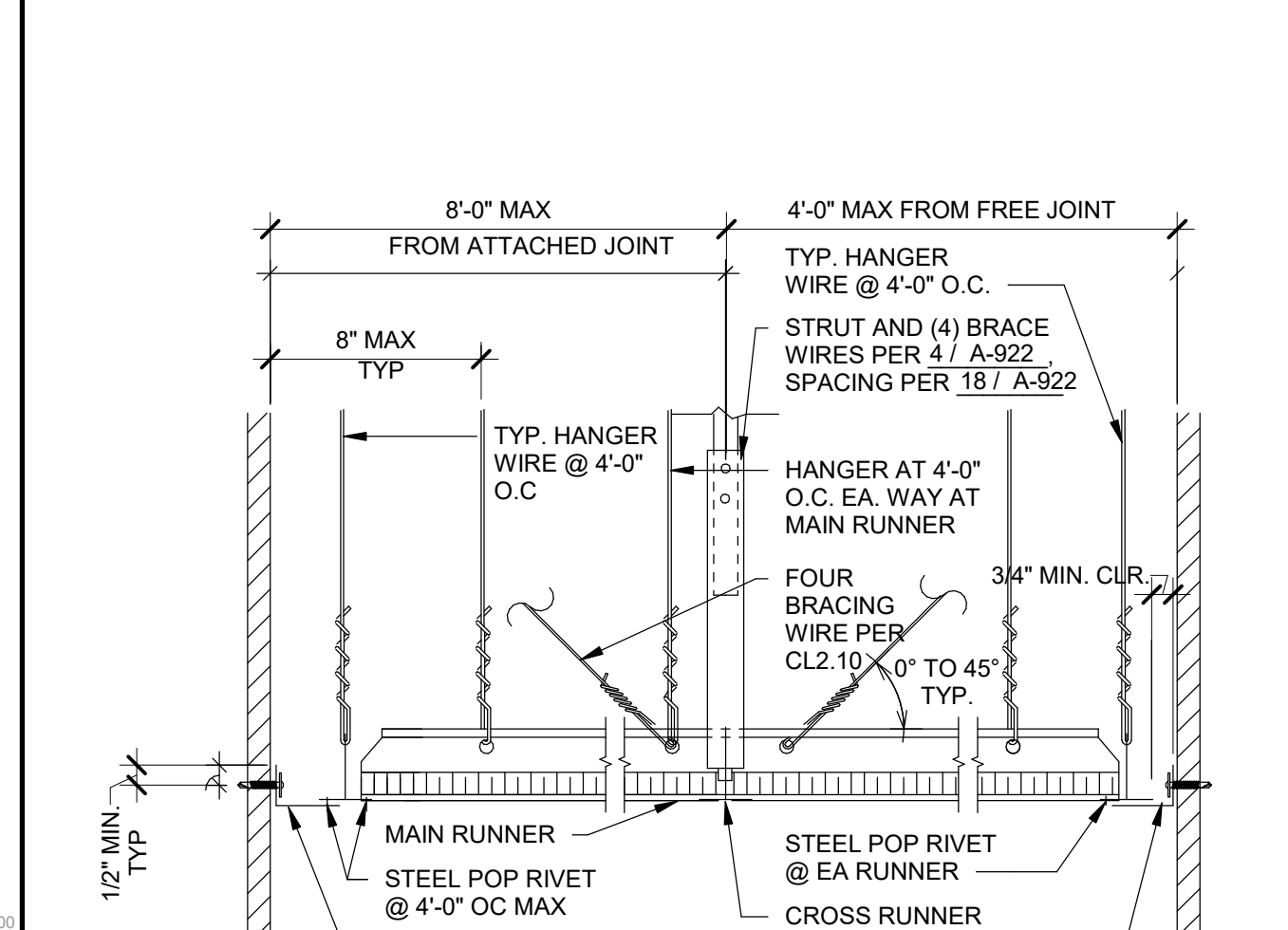
Approved by: **DS** 07/19/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Stuart



WALL STUD GAUGE	CONN. TO WALL STUD, W/ GYP	CONN. TO WALL STUD, NO GYP
20 GA	(5) #10x1-1/4\"/>	
18 GA	(4) #10x1-1/4\"/>	



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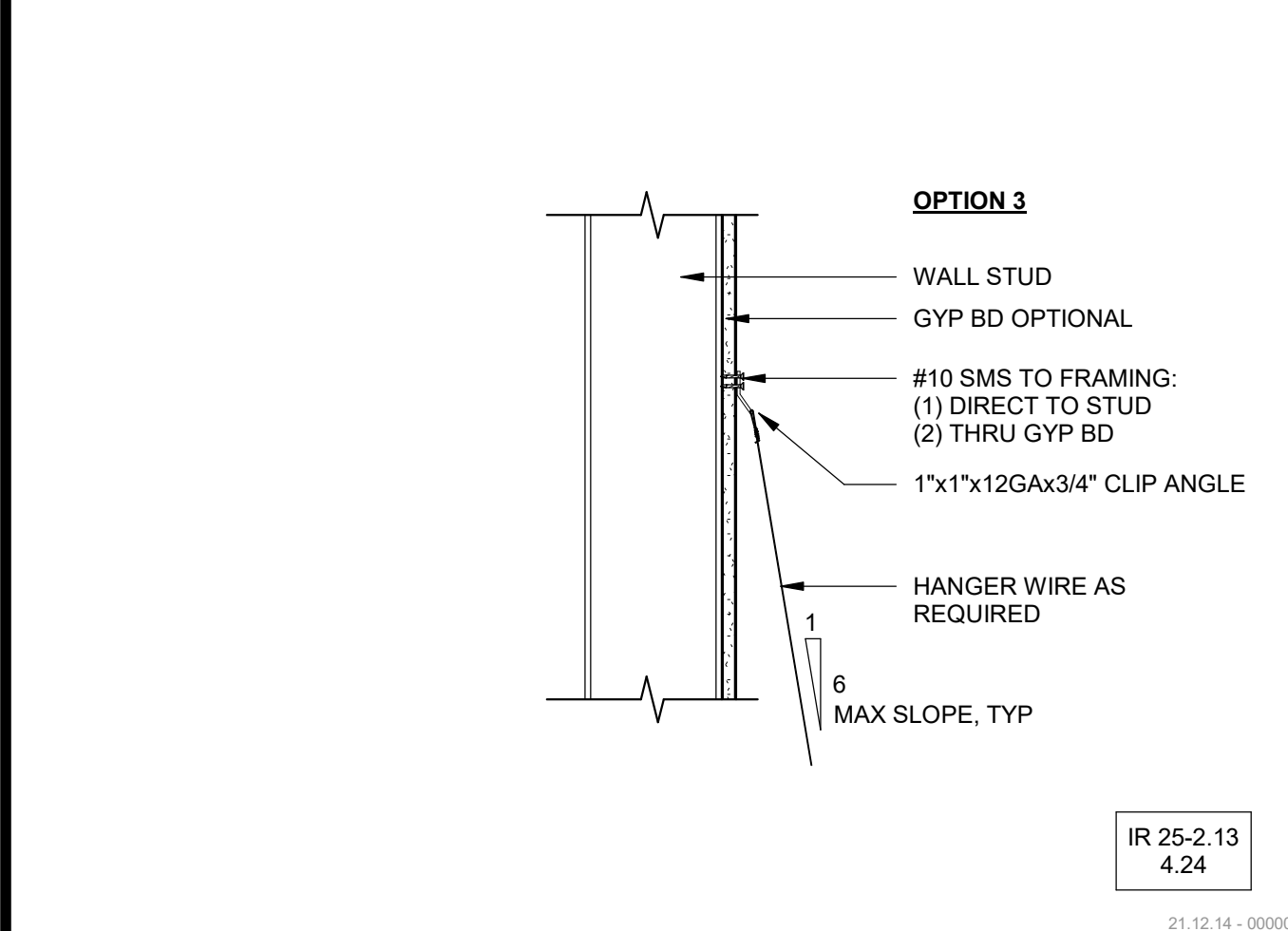
AMG

26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
TEL (661) 251-7401

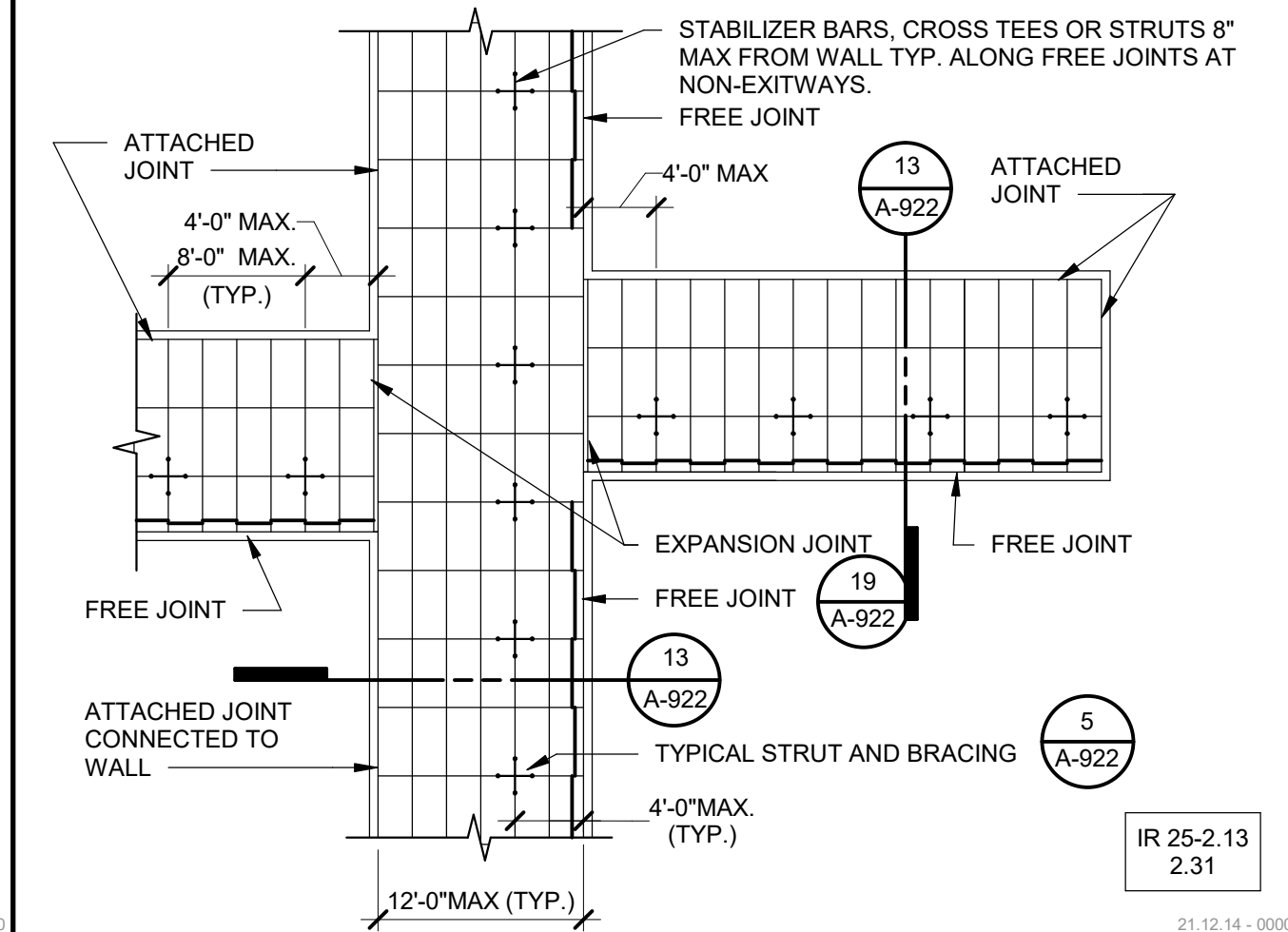
19.6

560 HIGUERA STREET, SUITE C
SAN LUIS OBISPO, CA 93401
TEL (805) 476-0399

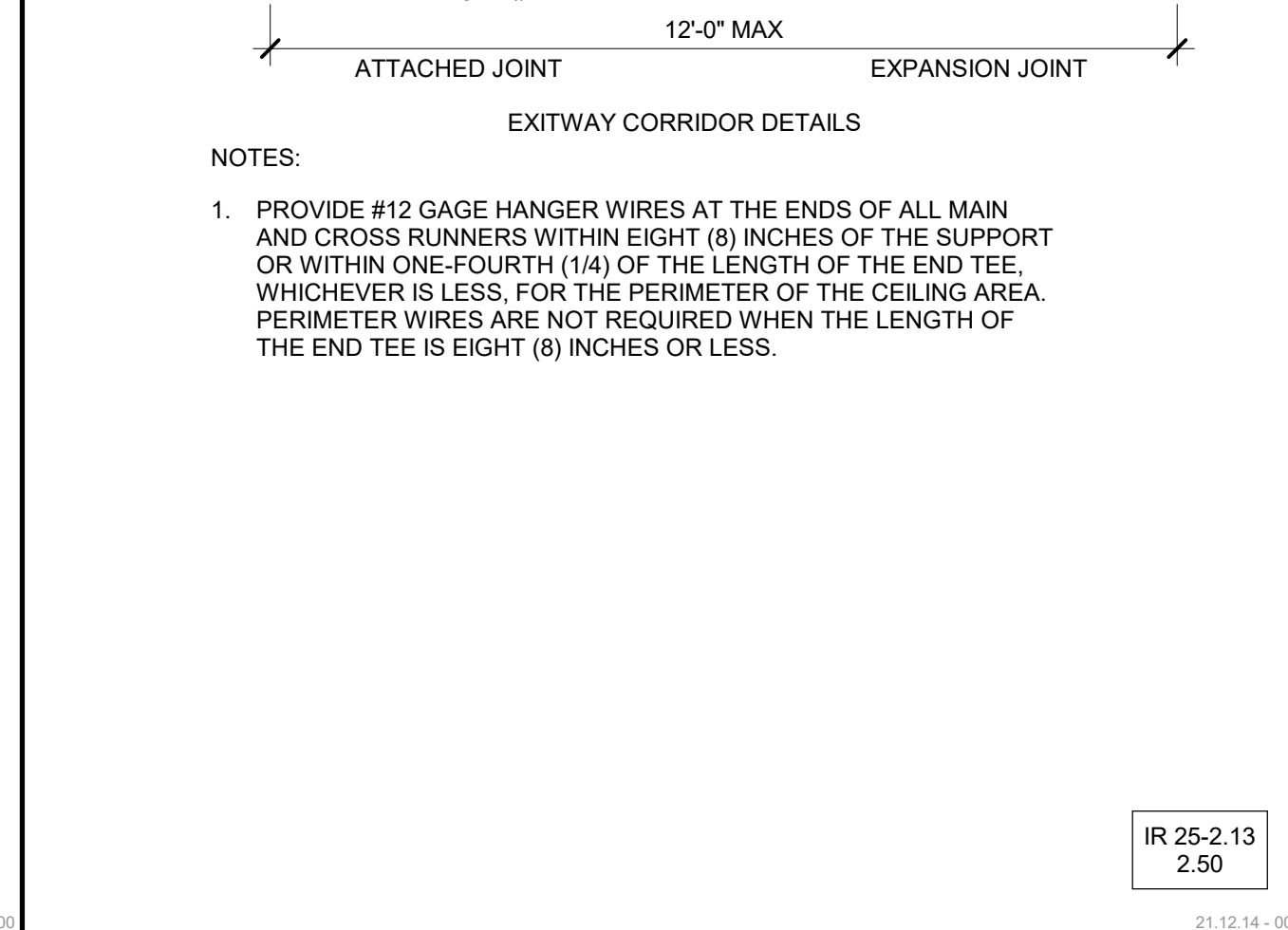
CONSULTANTS
 CIVIL ENGINEER
 DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI)
 705 FERO LANE, SUITE 10
 SAN LUIS OBISPO, CA 93401
 TEL (805) 250-2891, FAX (805) 280-2896
 LANDSCAPE ARCHITECT
 KTUA
 540 E. BETTERAVIA ROAD, SUITE D 22
 SANTA MARIA, CA 92103
 TEL (760) 220-6811
 STRUCTURAL ENGINEER
 155X STRUCTURAL DIVISION
 1119 GARDEN STREET
 SANTA BARBARA, CA 93101
 TEL (805) 963-1210
 M.E.P. ENGINEER
 ALFATECH
 421 E. HUNTINGTON DRIVE
 MONROVIA, CA 91016
 TEL (626) 803-0005
 FIRE PROTECTION ENGINEER
 ALPHA FIRE UNLIMITED
 650 SWEENEY LANE
 SAN LUIS OBISPO, CA 93401
 TEL (805) 541-2527
 FIRE ALARM ENGINEER
 DEEP BLUE INTEGRATION INC.
 3442 EMPRESA DR. SUITE C
 SAN LUIS OBISPO, CA 93401
 TEL (888) 600-0324



WALL STUD GAUGE	CONN. TO WALL STUD, W/ GYP	CONN. TO WALL STUD, NO GYP
20 GA	(5) #10x1-1/4\"/>	
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 6.04 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LB. 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 (2) BY FOUR FEET WEIGHING LESS THAN 56 LB. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
 6.05 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES 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 ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
 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 FOUR (4) TAUT #12 GAGE HANGER 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 LB. 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.

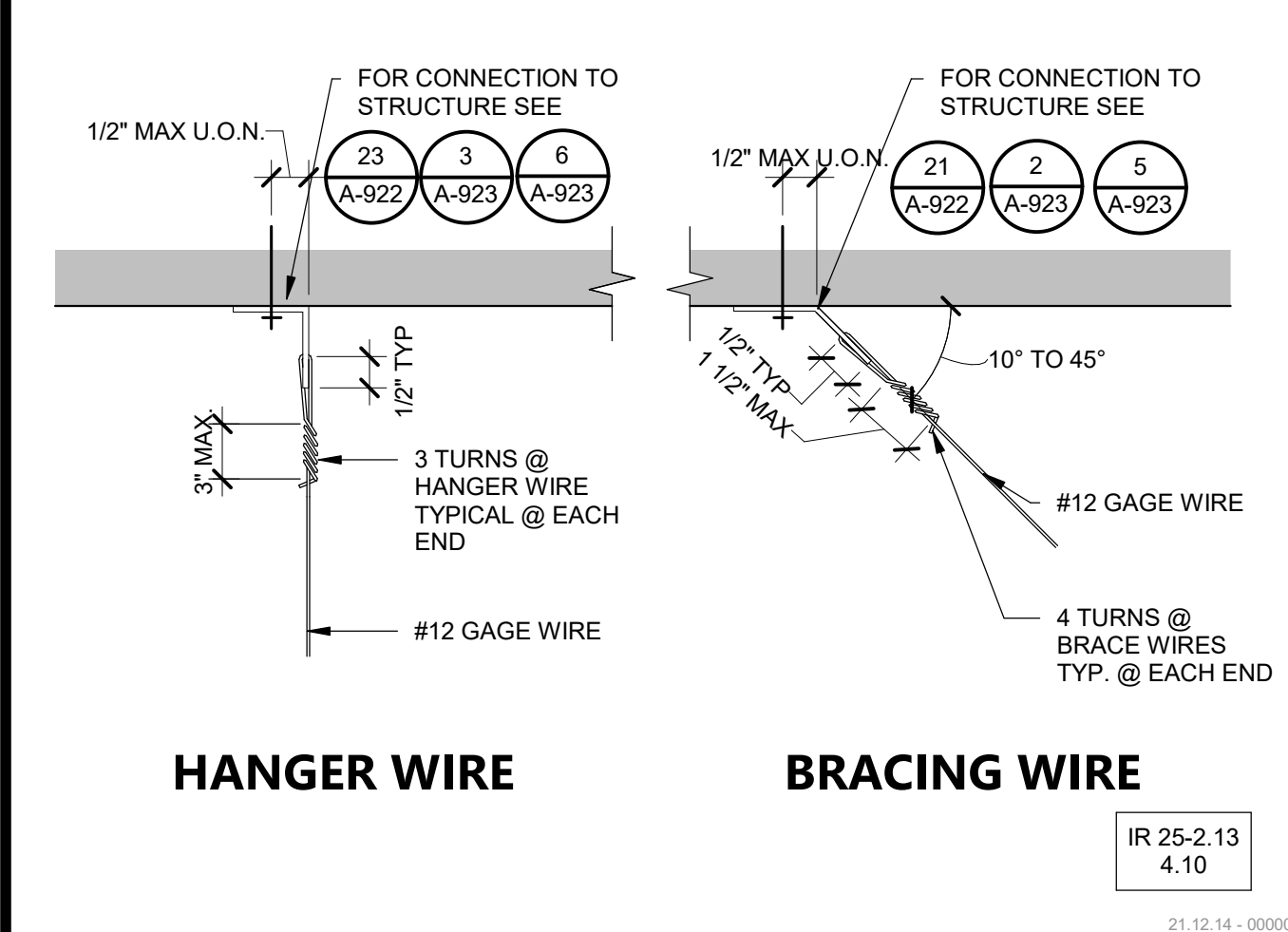
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26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
TEL (661) 251-7401

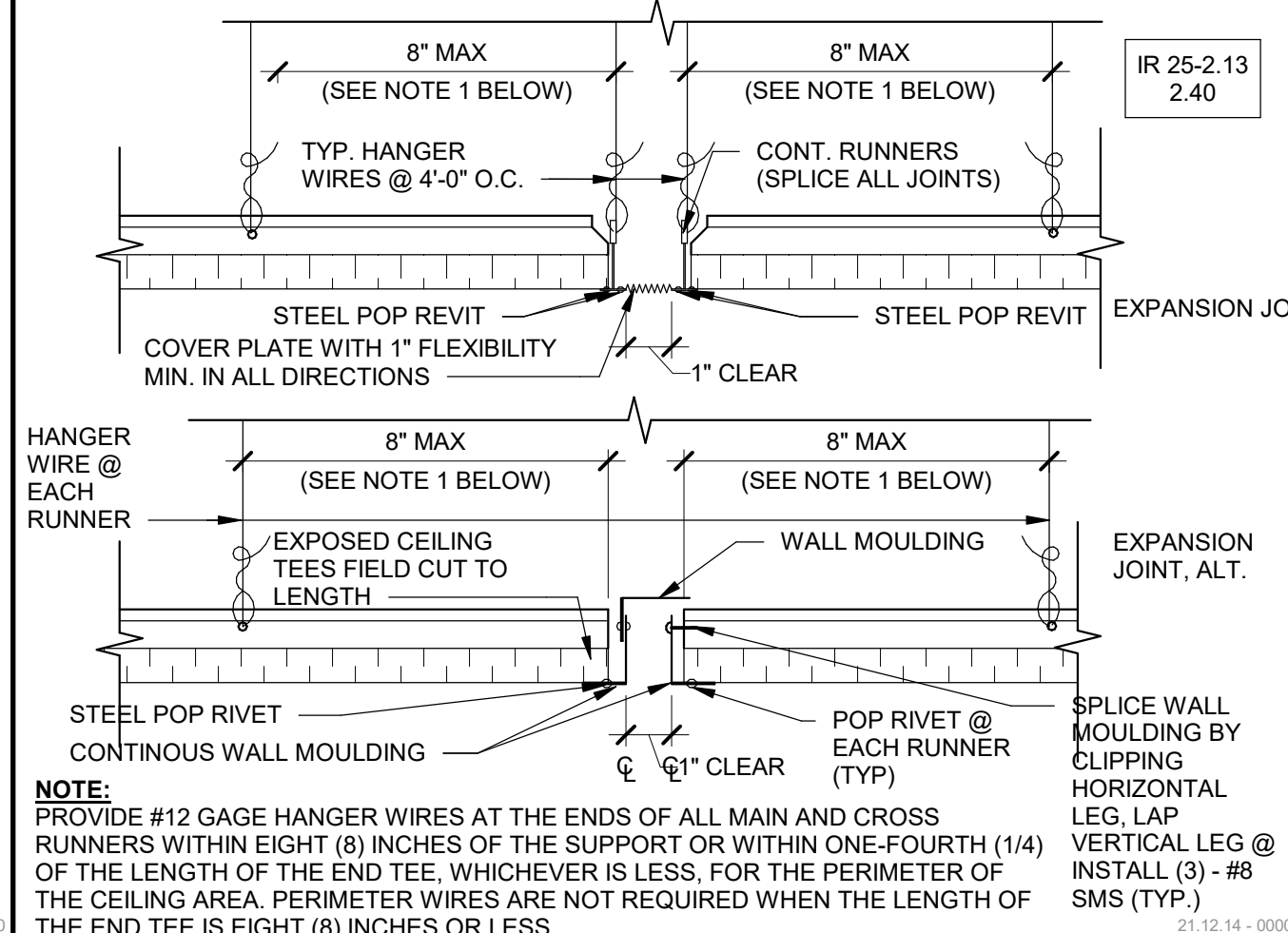
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560 HIGUERA STREET, SUITE C
SAN LUIS OBISPO, CA 93401
TEL (805) 476-0399

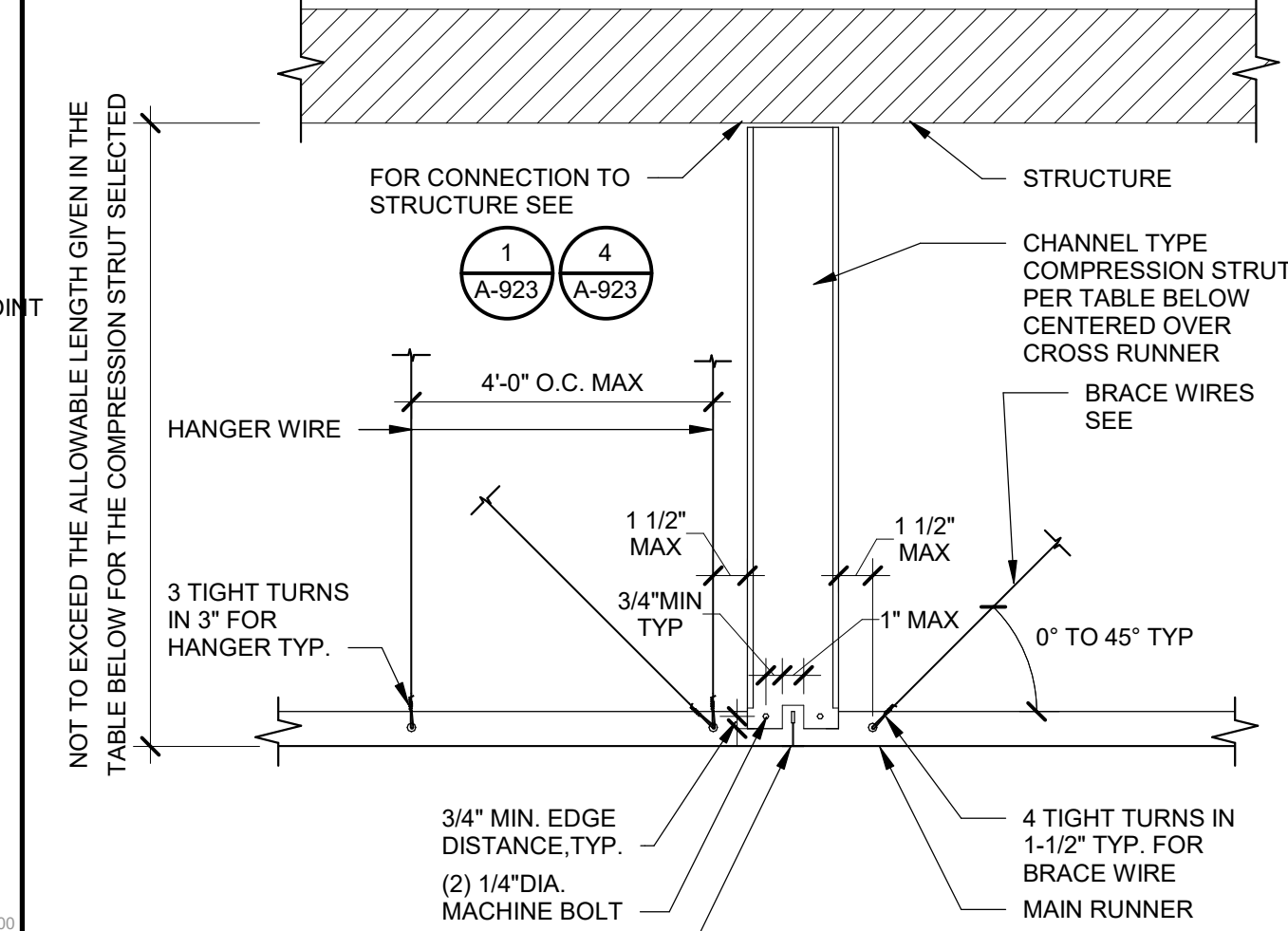
CONSULTANTS
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 705 FERO LANE, SUITE 10
 SAN LUIS OBISPO, CA 93401
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 SANTA MARIA, CA 92103
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 155X STRUCTURAL DIVISION
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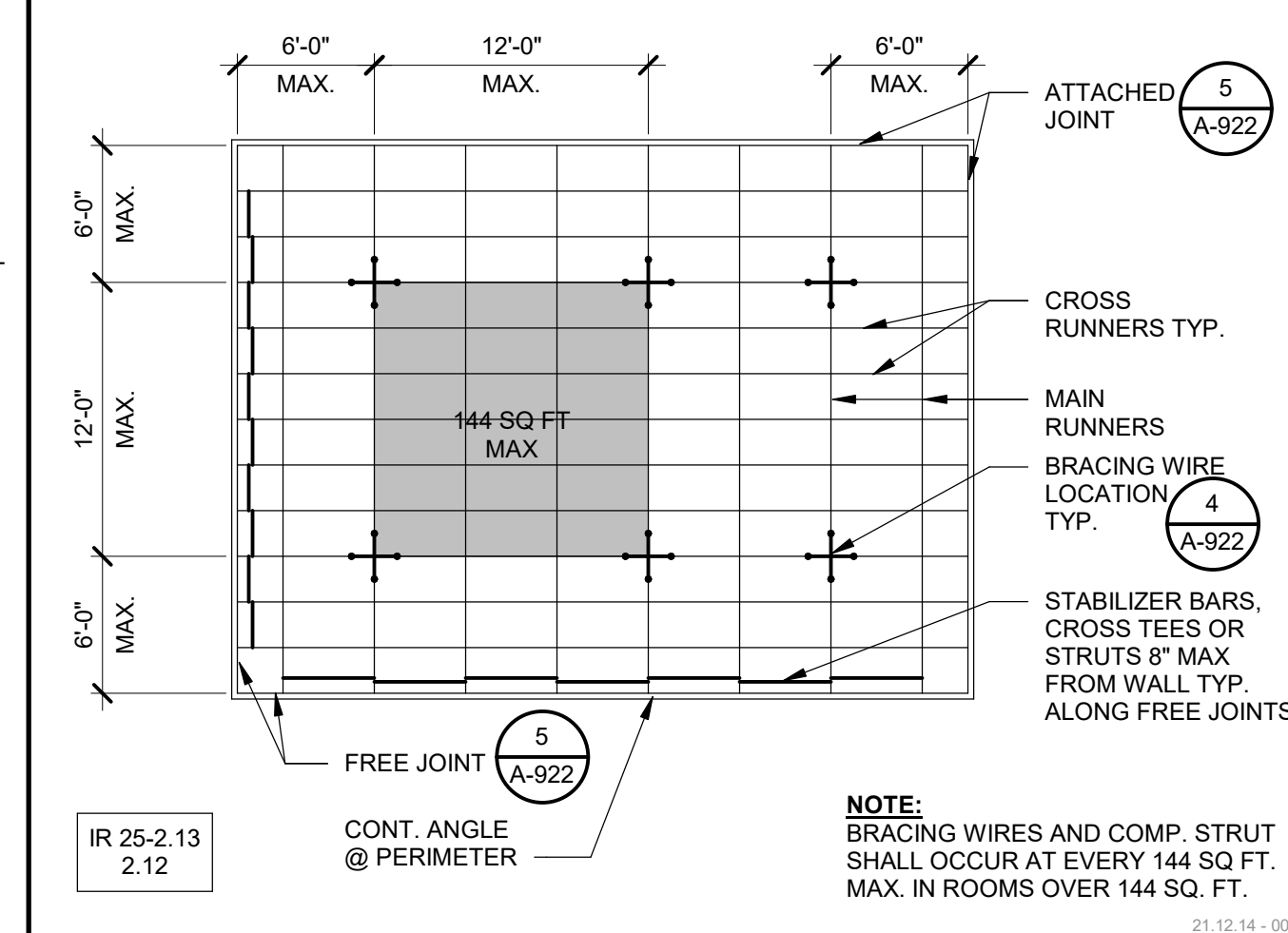
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18 GA	(4) #10x1-1/4\"/>	



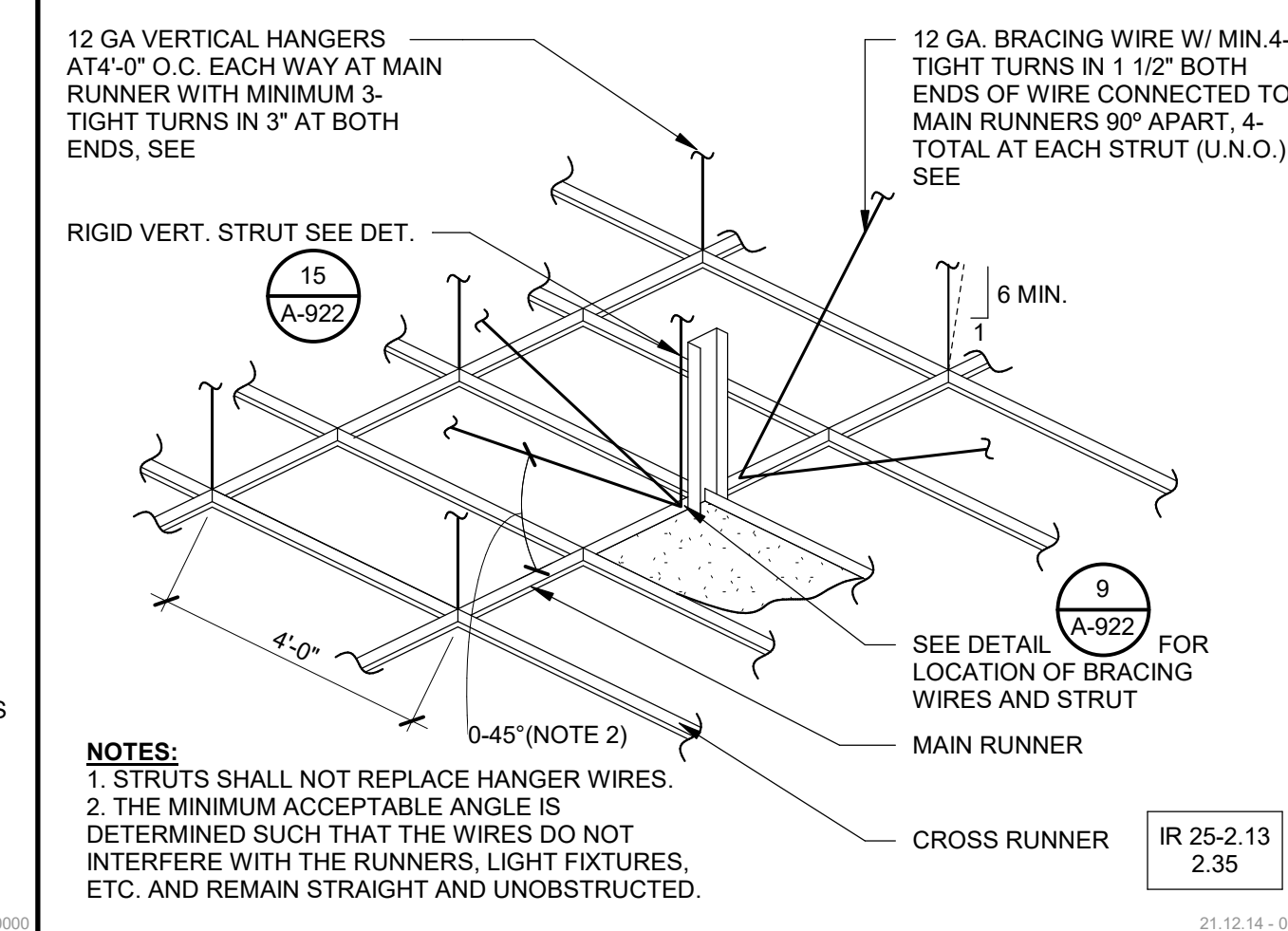
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18 GA	(4) #10x1-1/4\"/>	



WALL STUD GAUGE	CONN. TO WALL STUD, W/ GYP	CONN. TO WALL STUD, NO GYP
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NOTES 12" = 1'-0" 3

ARCHITECT STAMP
 LICENSED ARCHITECT
 AFTER CONSULTING
 STATE OF CALIFORNIA
 REN 10-31-25
 A-922

CONSULTANT STAMP
 LICENSED ARCHITECT
 AFTER CONSULTING
 STATE OF CALIFORNIA
 REN 10-31-25
 A-922

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA 93407

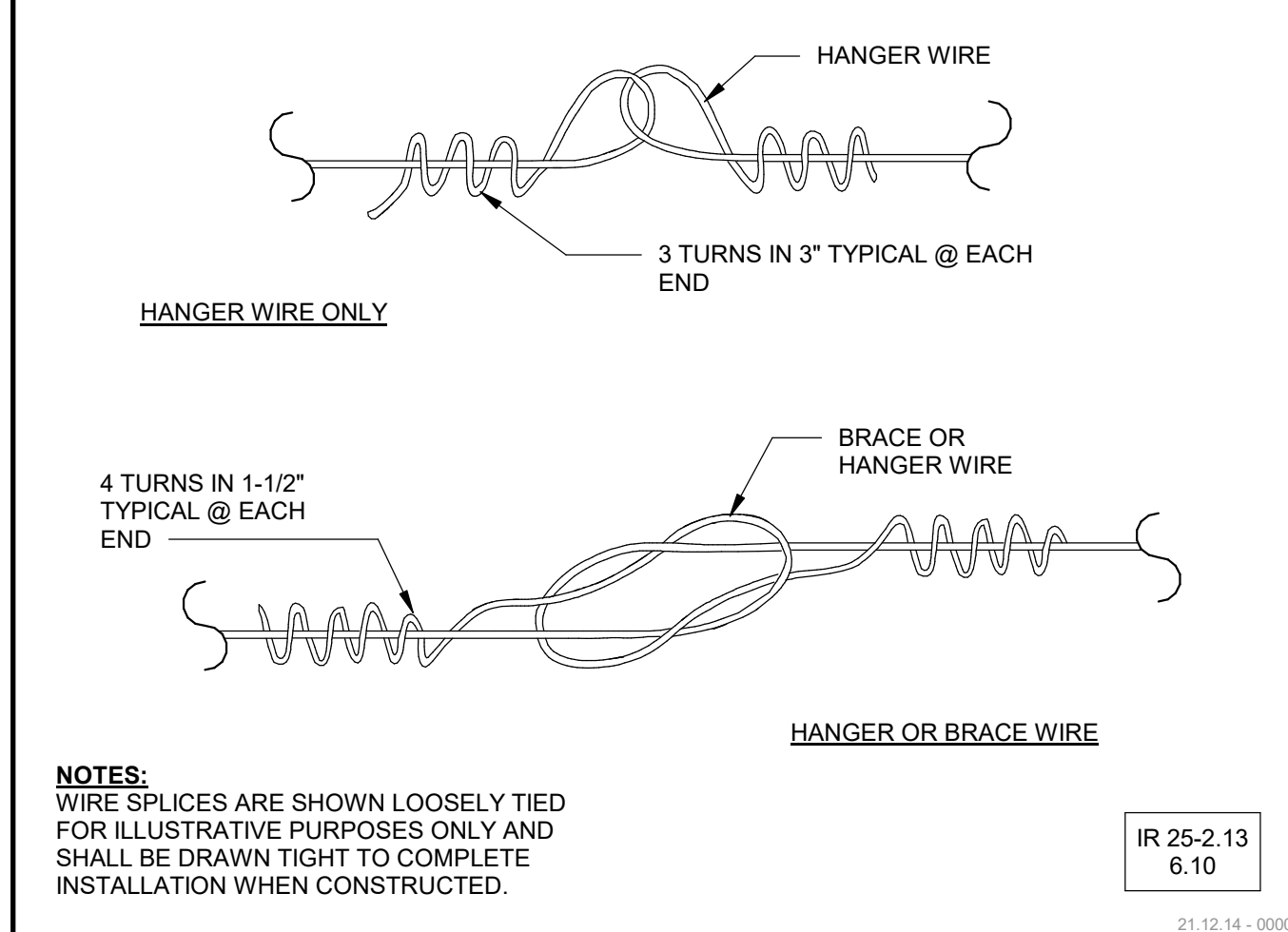
SHEET TITLE
SUSPENDED ACOUSTIC TILE CEILING DETAILS

DRAWN BY: PA JOB NUMBER: 21170.01
 SHEET NO.
A-922

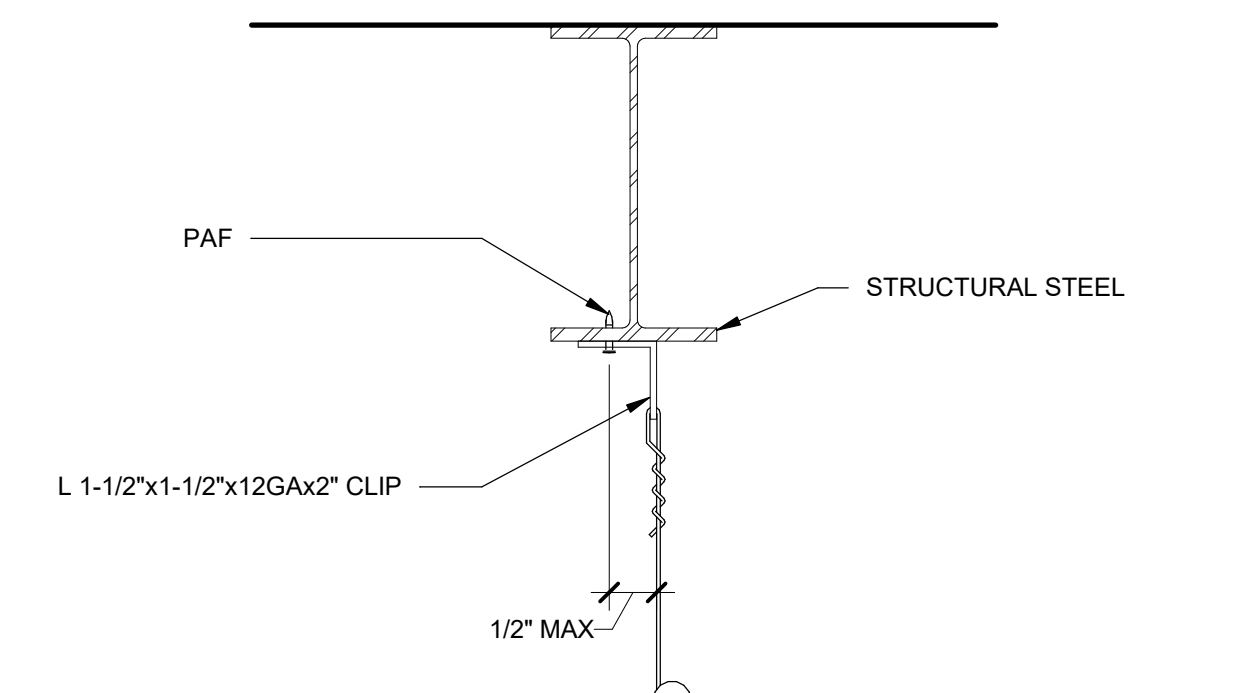
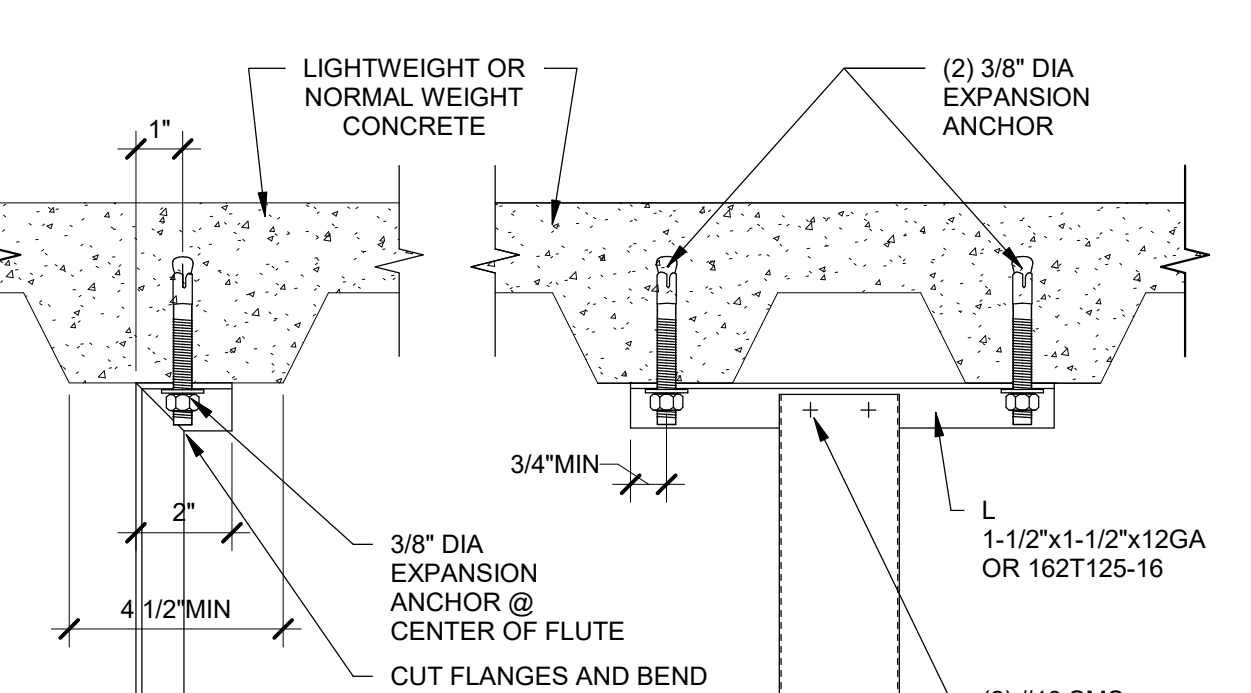
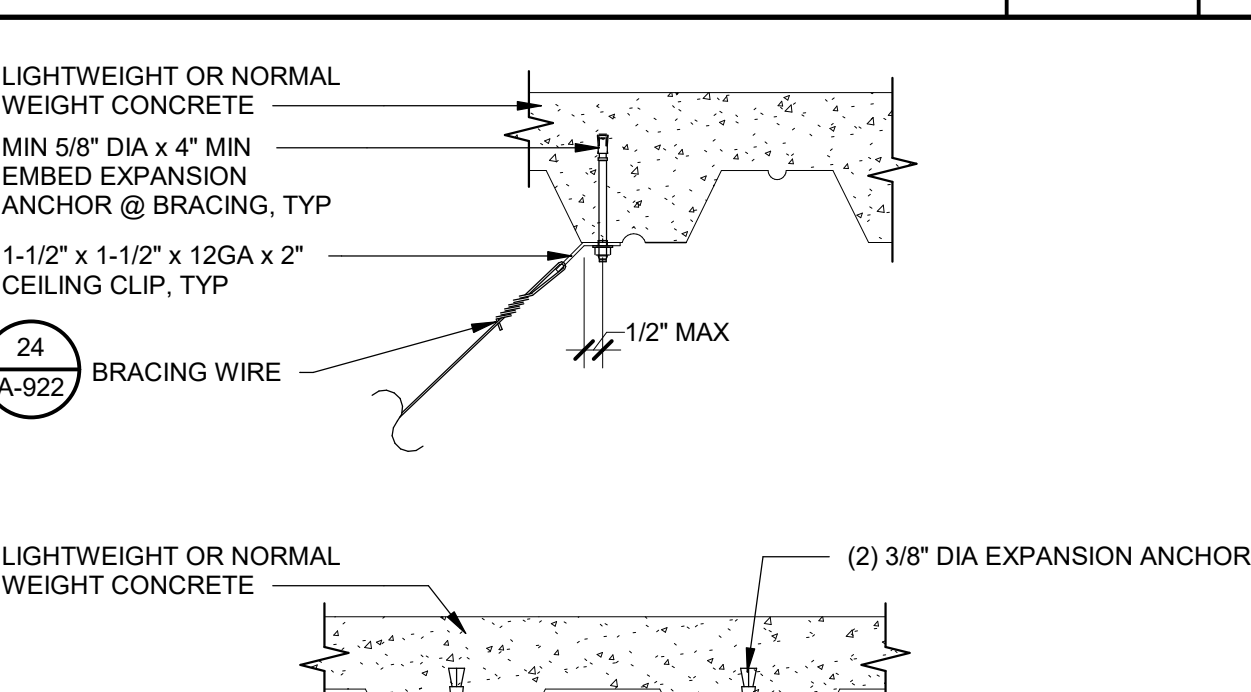
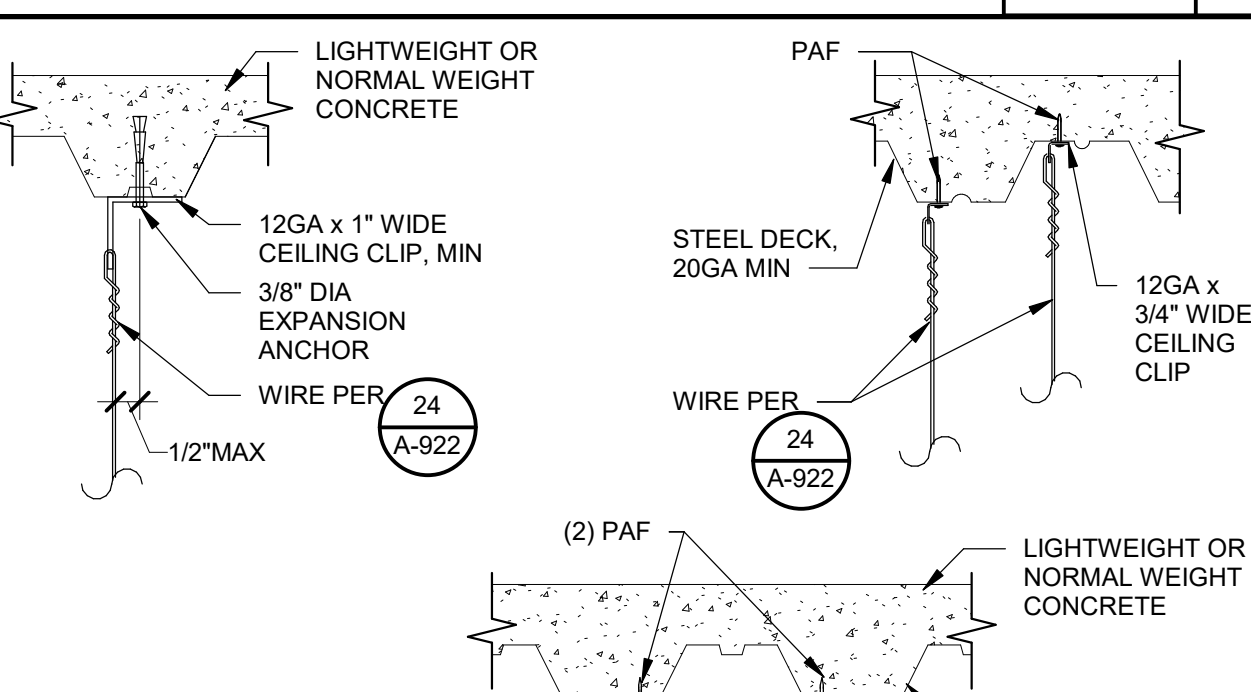
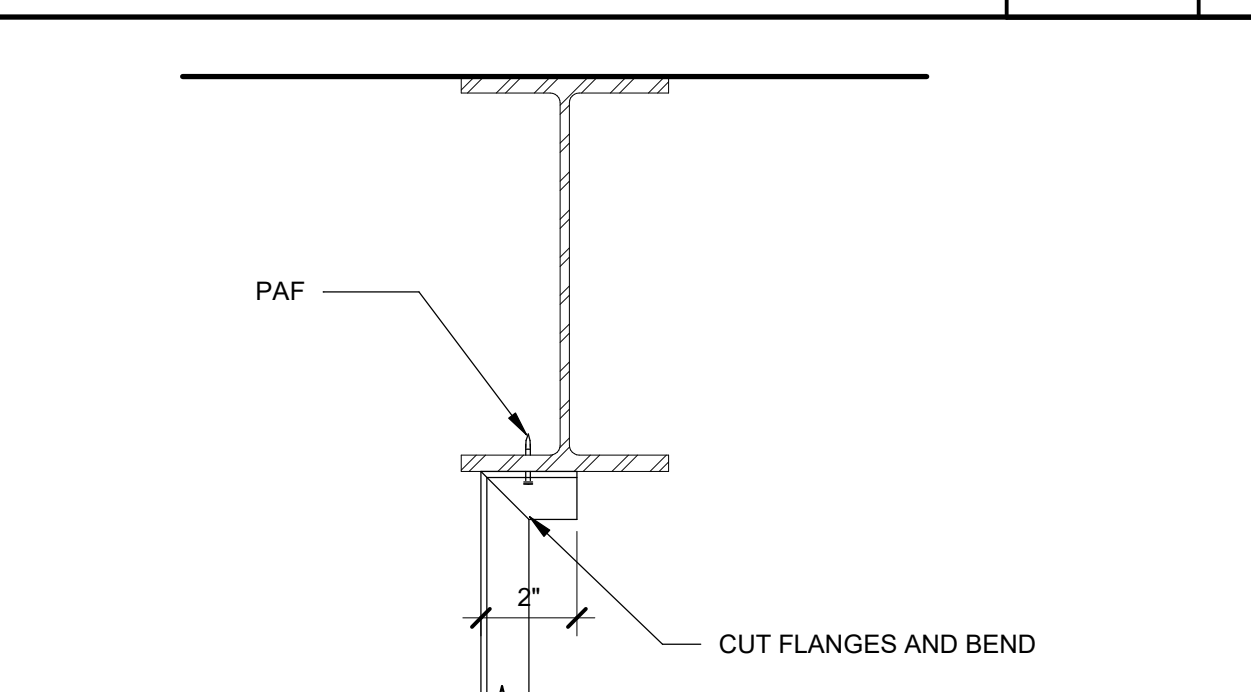
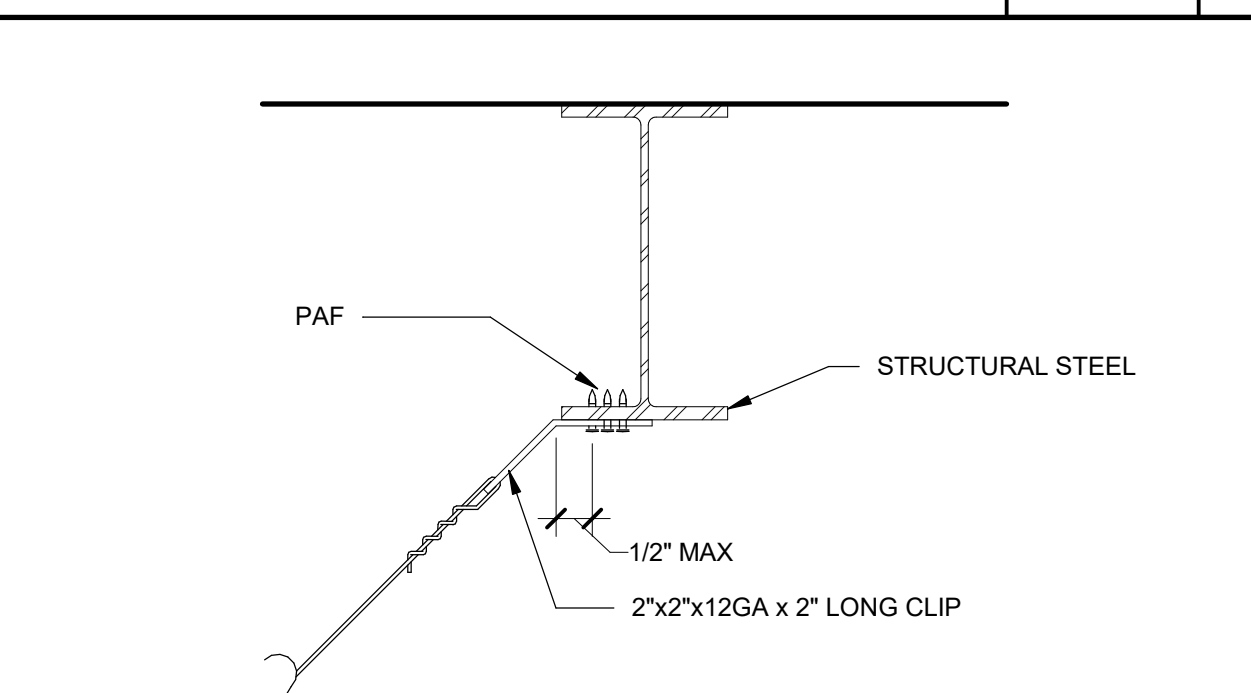
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20 GA	(5) #10x1-1/4\"/>	
18 GA	(4) #10x1-1/4\"/>	

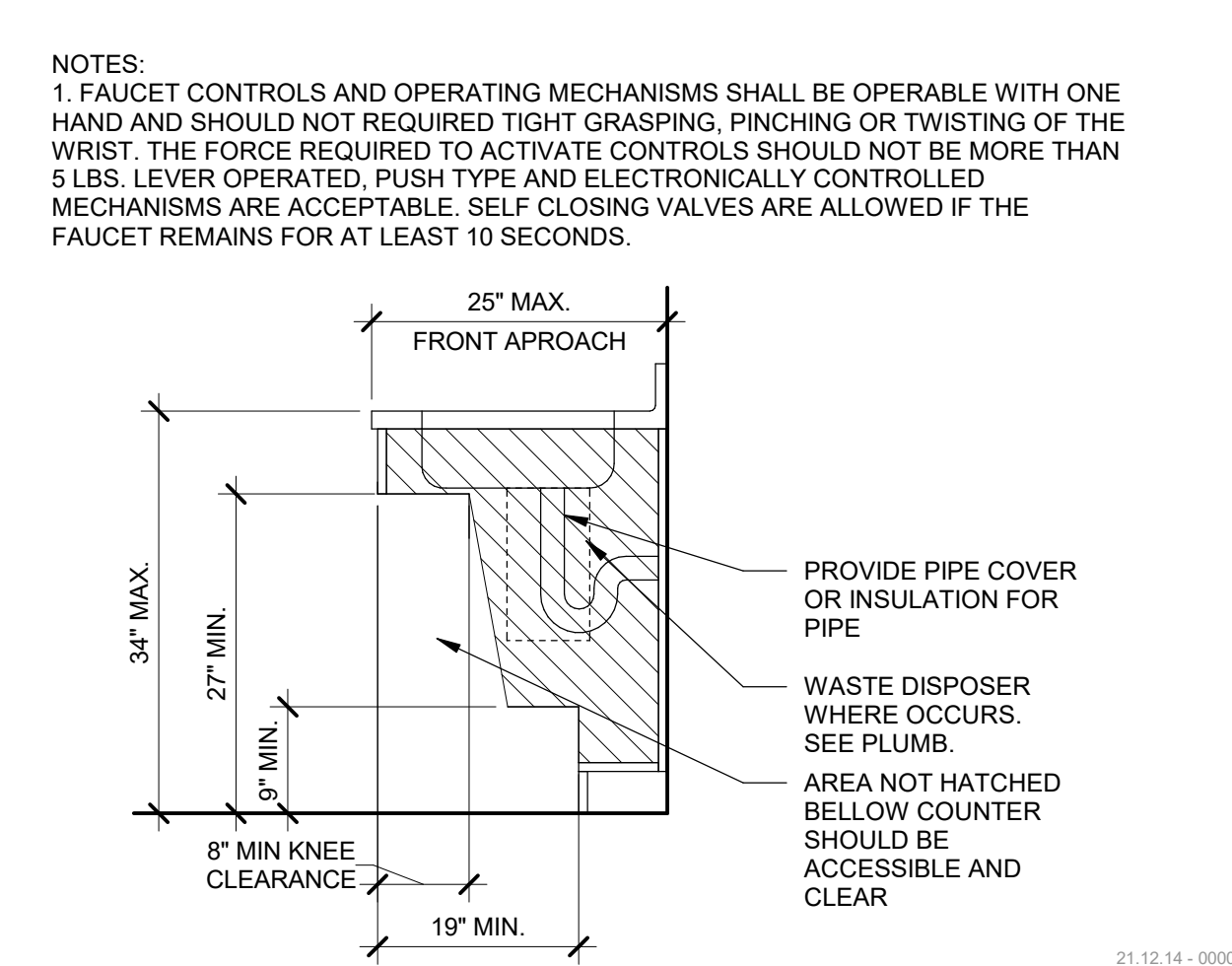


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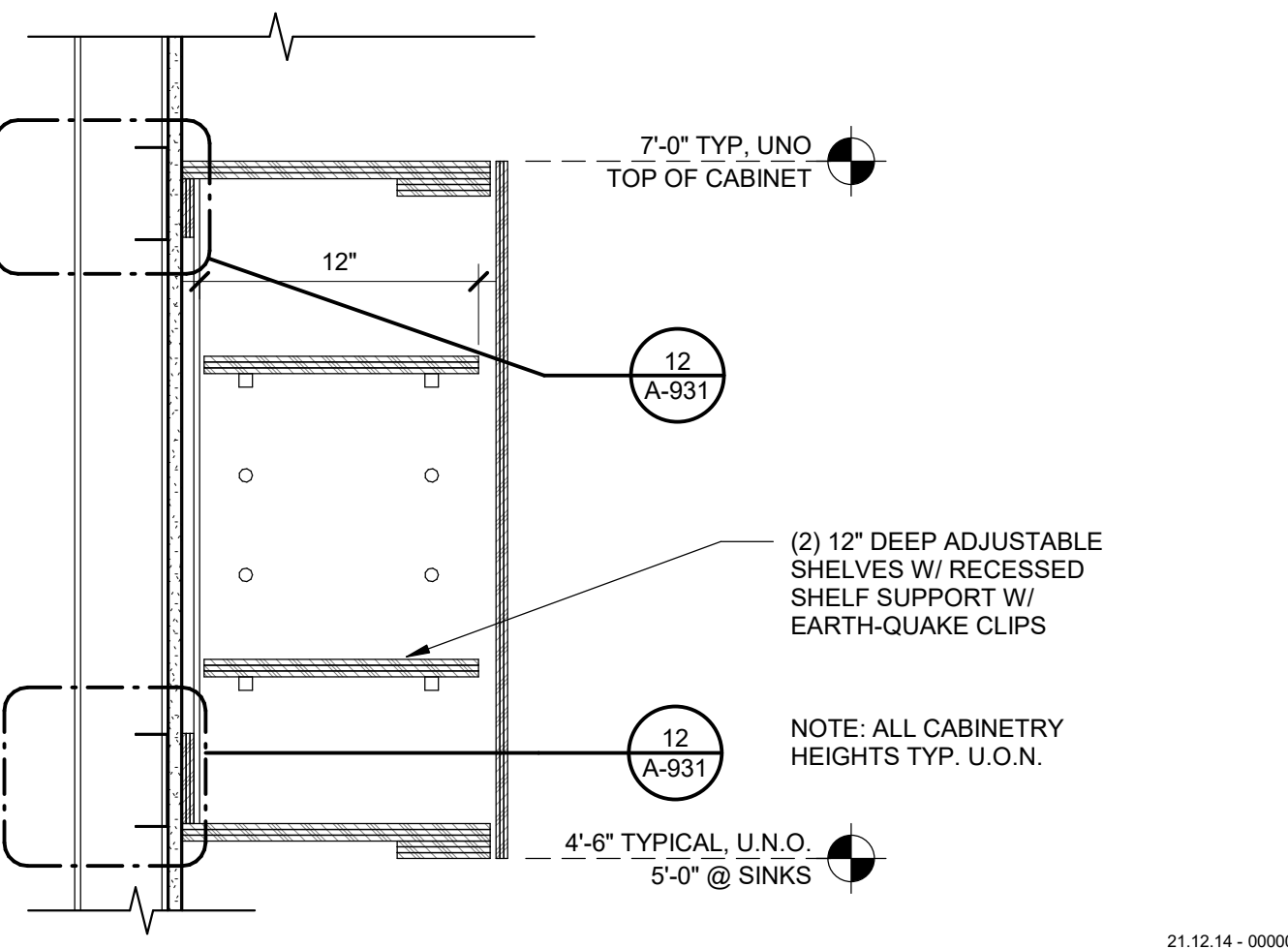
			 <p>NOTES: 1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" 2. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSIAISC 341-10 3. REFER TO 24 / A-922 FOR ADDITIONAL DETAILS</p> <p>IR 25-2.13 4.23</p>	 <p>NOTES: 1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE MIN 5/8" DIA x 4" MIN EMBED EXPANSION ANCHOR @ BRACING, TYP 1-1/2" x 1-1/2" x 12GA x 2" CEILING CLIP, TYP</p> <p>IR 25-2.13 4.31</p>	<p>AGENCY APPROVAL DS&E 03-122884</p> <p>CSU The California State University OFFICE OF FIRE SAFETY</p> <p>CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY</p> <p>Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.</p> <p>Approved by: DS&E 07/18/2023</p> <p>CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel</p>						
		<p>HANGER WIRE @ STRUCTURAL STEEL 3" = 1'-0" 6</p>	<p>STRUT CONN TO CONC. OVER MTL DECK 3" = 1'-0" 1</p>	 <p>NOTES: 1. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE MIN 5/8" DIA x 4" MIN EMBED EXPANSION ANCHOR @ BRACING, TYP 1-1/2" x 1-1/2" x 12GA x 2" CEILING CLIP, TYP</p> <p>IR 25-2.13 4.31</p>	<p>AMG</p> <p>26535 SUMMIT CIRCLE SANTA CLARITA, CA 91350 TEL (661) 251-7401</p> <p>19.6</p> <p>560 HIGUERA STREET, SUITE C SAN LUIS OBISPO, CA 93401 TEL (805) 476-0399</p>						
			<p>BRNG WIRE @ CONC OVER MTL DECK 3" = 1'-0" 2</p>	 <p>NOTES: 1. REFER TO 24 / A-922 FOR ADDITIONAL DETAILS. 2. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTRELINE OF DECK LOW FLUTE 3. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.</p> <p>IR 25-2.13 4.21</p>	<p>CONSULTANTS</p> <p>CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 PIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896</p> <p>LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 92103 TEL (760) 220-6811</p> <p>STRUCTURAL ENGINEER 1516 STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210</p> <p>M. E. P. ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005</p> <p>FIRE PROTECTION ENGINEER ALPHA FIRE UNLIMITED 650 SWEENEY LANE SAN LUIS OBISPO, CA 93401 TEL (805) 541-2527</p> <p>FIRE ALARM ENGINEER DEEP BLUE INTEGRATION INC. 3442 EMPRESA DR SUITE C SAN LUIS OBISPO, CA 93401 TEL (888) 600-0324</p>						
			<p>HNGR WIRE @ CONC OVER METAL DECK 3" = 1'-0" 3</p>	 <p>NOTES: 1. STRUCTURAL STEEL MEMBER 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 ANSIAISC 341-10 3. REFER TO 15 / A-922 FOR ADDITIONAL INFORMATION.</p> <p>IR 25-2.13 5.40</p>	<p>ARCHITECT STAMP</p> <p>CONSULTANT STAMP</p> <p>LICENSED ARCHITECT RAY CLAY WHEELER C-22474 APR 10 - 31-25 STATE OF CALIFORNIA</p> <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.</p> <p>PROJECT OWNER & TITLE</p> <p>CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93407</p> <p>CAL POLY TECH PARK - PHASE 2 Mount Bishop Road San Luis Obispo, CA 93407</p> <p>SHEET TITLE SUSPENDED CEILING ANCHORAGE DETAILS</p> <p>DRAWN BY: Author JOB NUMBER: 21179.01</p> <p>SHEET NO.</p> <p>A-923</p> <p>DATE: MARCH 31, 2023</p>	NO.	DATE	DESCRIPTION			
NO.	DATE	DESCRIPTION									
			<p>STRUT CONN TO STRUCTURAL STEEL 3" = 1'-0" 4</p>	 <p>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 ANSIAISC 341-10 3. REFER TO 24 / A-922 FOR ADDITIONAL DETAILS</p> <p>IR 25-2.13 4.33</p>	<p>BRACING WIRE @ STRUCTURAL STEEL 3" = 1'-0" 5</p>						

CONSTRUCTION DOCUMENTS

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DATE PLOTTED: 4/13/2023 2:23:18 PM



ACC. SINK CABINET NOTES 3/4" = 1'-0" **11**



UPPER CABINETS 1 1/2" = 1'-0" **6**

CASEWORK NOTES

- SEE INTERIOR ELEVATIONS AND FLOOR PLAN FOR CABINET CONFIGURATIONS AND DIMENSIONS. ONLY THOSE CABINETS CALLED OUT ON INTERIOR ELEVATIONS AND FLOOR PLAN SHALL BE PROVIDED
- DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS. IF NOT ELICITED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. SYMBOL "RS" INDICATES REVERSE SWING.
- ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS, AND SHALL NOT BE EXCEEDED. EXCEPTION - CABINETS ADJACENT TO WALLS MAY BE INCREASED IN LENGTH TO ELIMINATE THE NEED FOR FILLER STRIPS. A 1/8" TOLERANCE IS PERMITTED ON DIMENSIONS OVER 48" FOR 48" AND SMALLER DIMENSIONS. TOLERANCE IS LIMITED TO 10% HEIGHT DIMENSION OF BASE CABINETS INCLUDES FINISHED TOP.
- WHERE BACKSPLASH IS INDICATED, IT SHALL BE 4" HIGH @ NON-SINK AREAS & 8" HIGH OR TO UNDERSIDE OF UPPER CABINETS @ WET AREAS (SEE INTERIOR ELEVATIONS). TOP MOUNTED TYPE, HAVING SQUARE TOP WITH SHELF EDGES.
- ALIGN SIDE OF CABINET WITH EDGE OF DOOR FRAME WHERE OCCURS.
- PAPER AND CHART STORAGE UNITS SHALL BE 27" DEEP UNLESS OTHERWISE NOTED.
- BACKING NOTES
 - PROVIDE #12 TEK SCREWS (AT METAL STUDS). SPACE ANCHORS AT 16" O.C. MINIMUM OF ONE SCREW AT EACH TOP AND BOTTOM CORNER OF EACH CABINET UNIT.
 - STUDS OF WALLS BACKING CABINETS SHALL RUN FROM SLAB TO STRUCTURE ABOVE.
 - ALL SHEET METAL SCREWS MUST HAVE ICCP. SEE SHEET

SYMBOLS AND NOTATIONS FOR CABINETS

HEIGHT (WHEN NOT STANDARD) → 30 (PLM) ← MATERIAL
DEPTH (WHEN NOT STANDARD) → 27 ← DEPTH (WHEN NOT STANDARD)
LENGTH → 301 ← NAAWS - STYLE NUMBER

NAAWS STYLE CATEGORIES

- 100 - BASE CABINETS, NO DRAWERS
- 200 - BASE CABINETS WITH DRAWERS
- 300 - WALL HUNG CABINETS
- 400 - TALL STORAGE CABINETS
- 500 - WARDROBE CABINETS
- 600 - LIBRARY CABINETS
- 700 - MOVABLE CABINETS

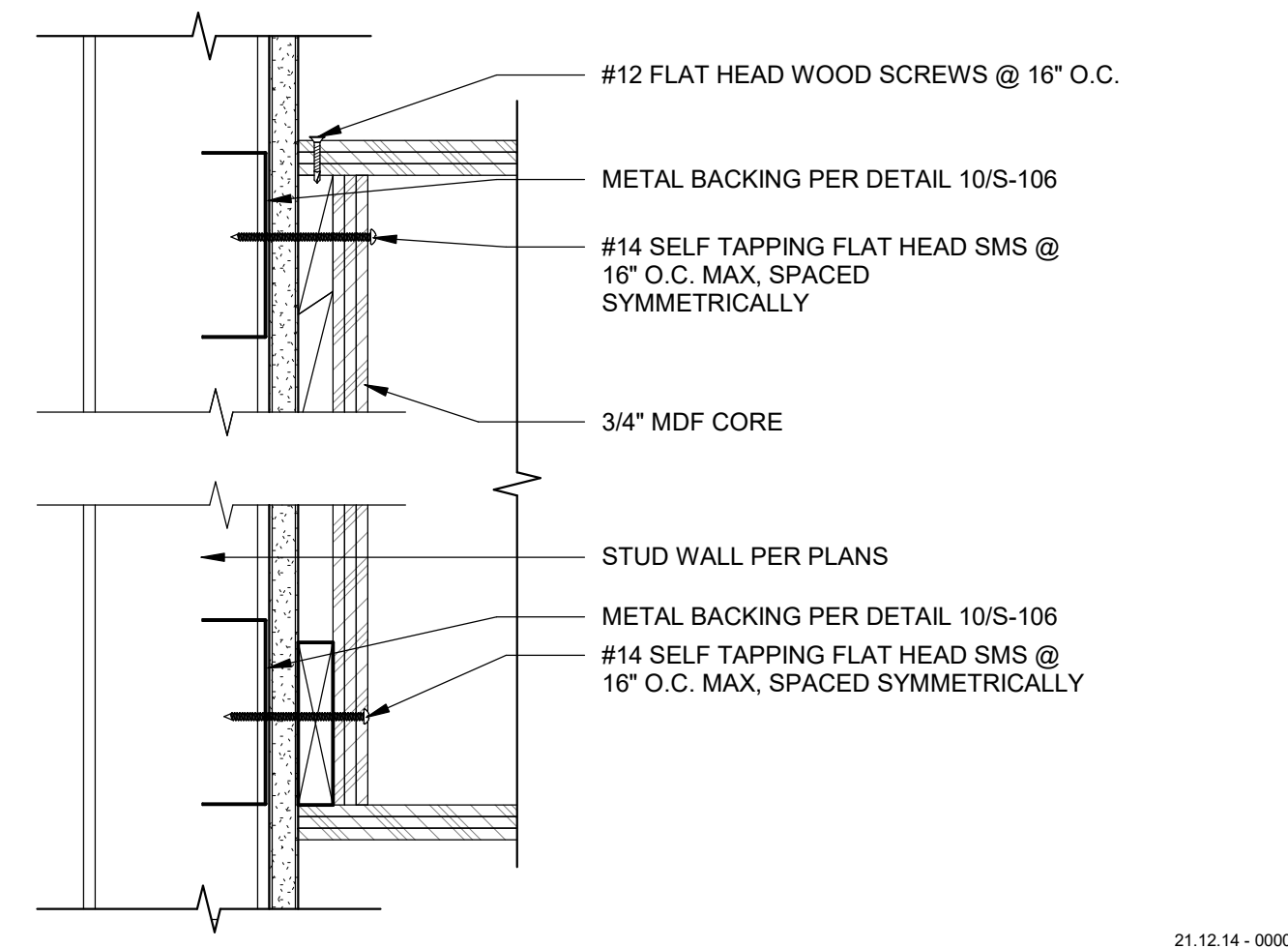
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CSU The California State University
OFFICE OF FIRE SAFETY

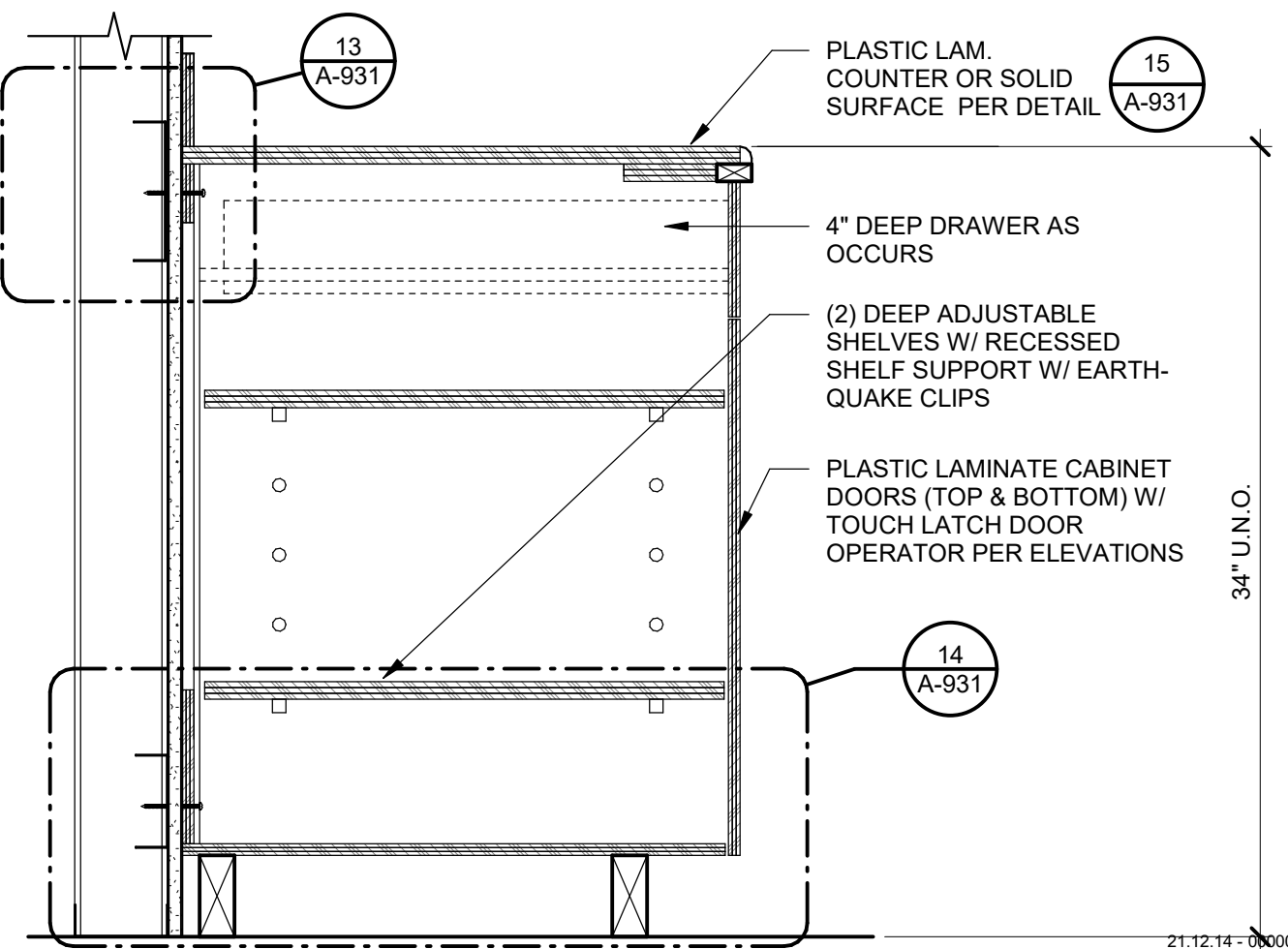
CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY

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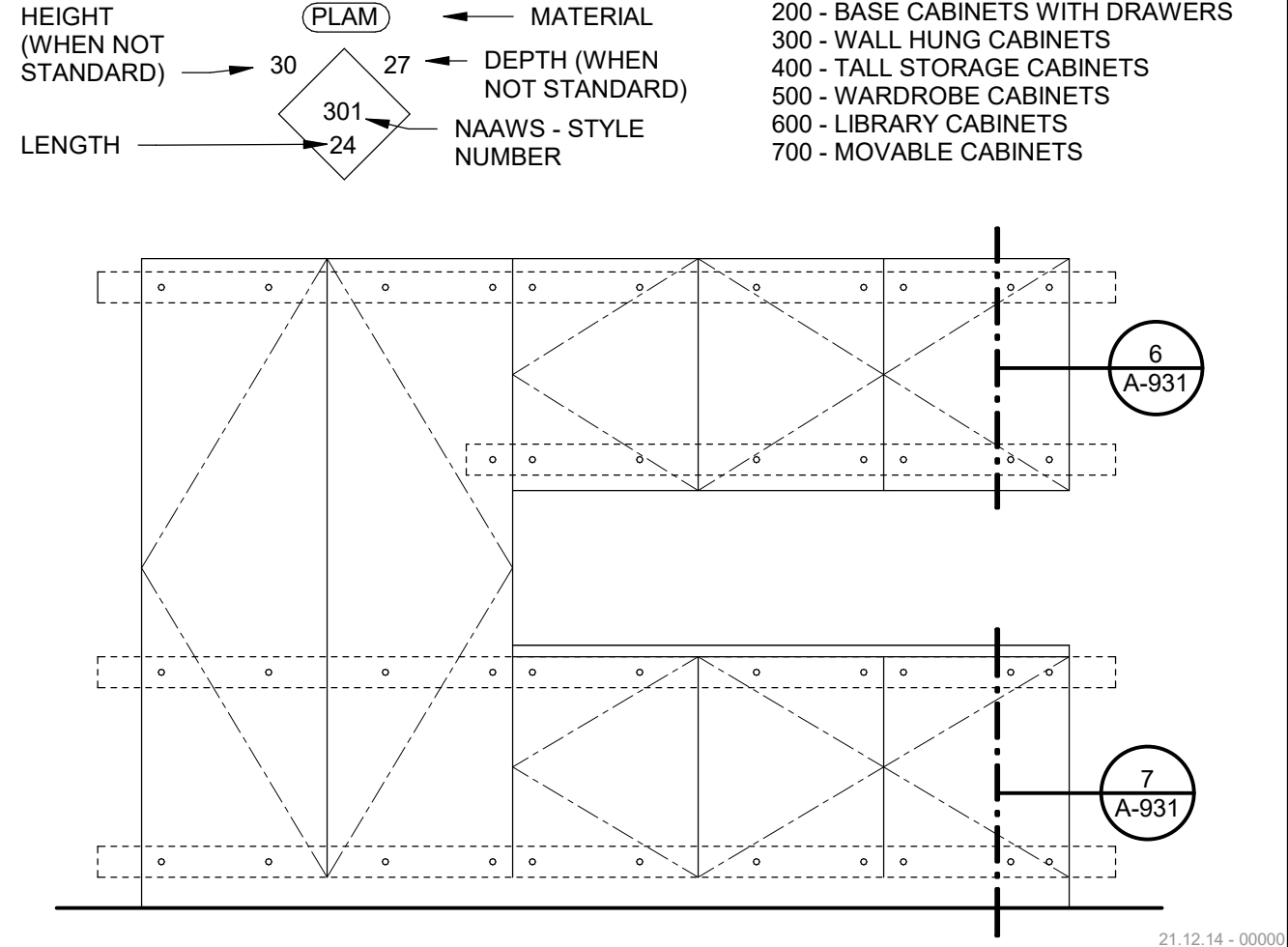
Approved by: **DS** 07/19/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel



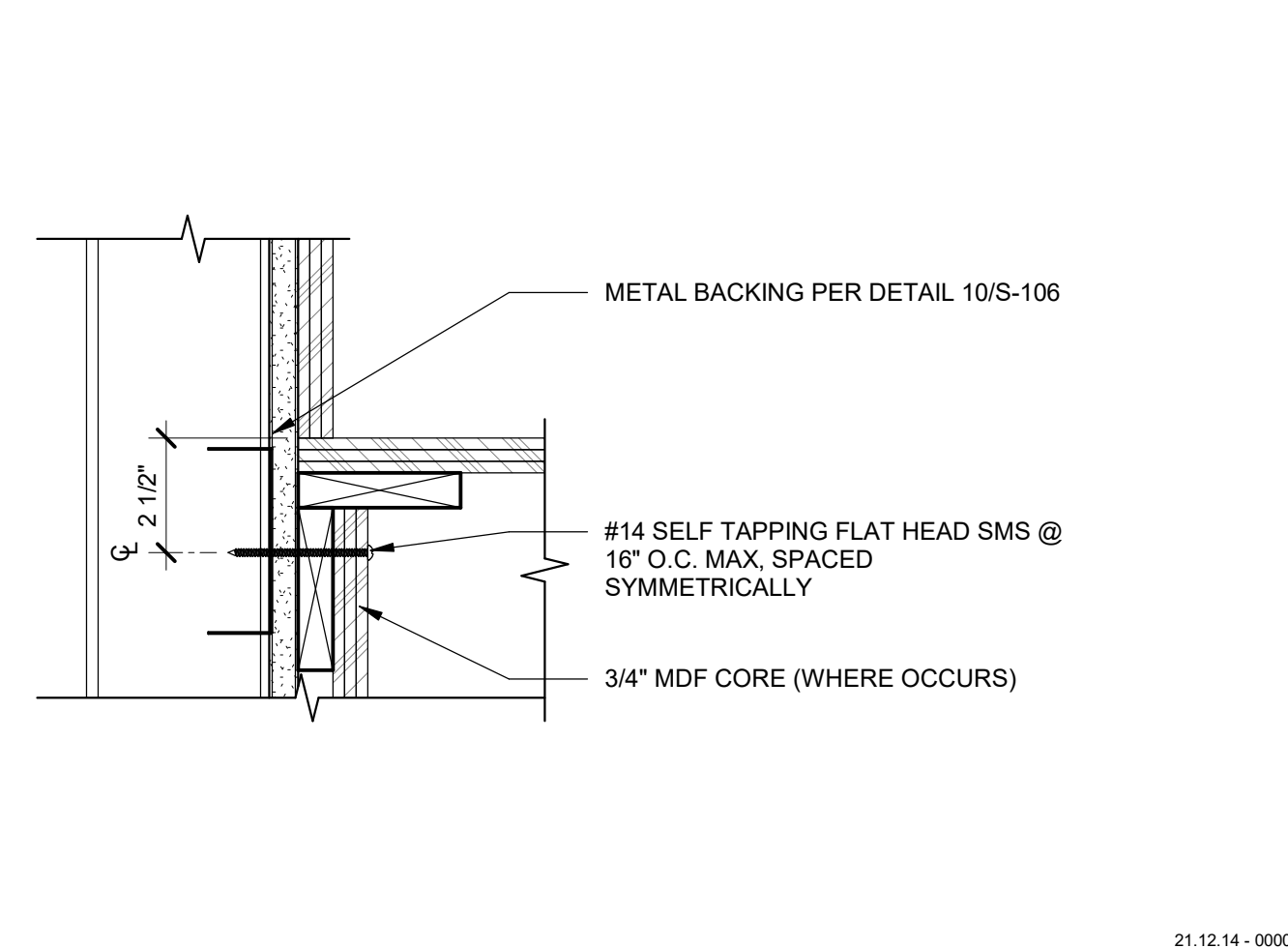
CABINERY BLOCKING 3" = 1'-0" **12**



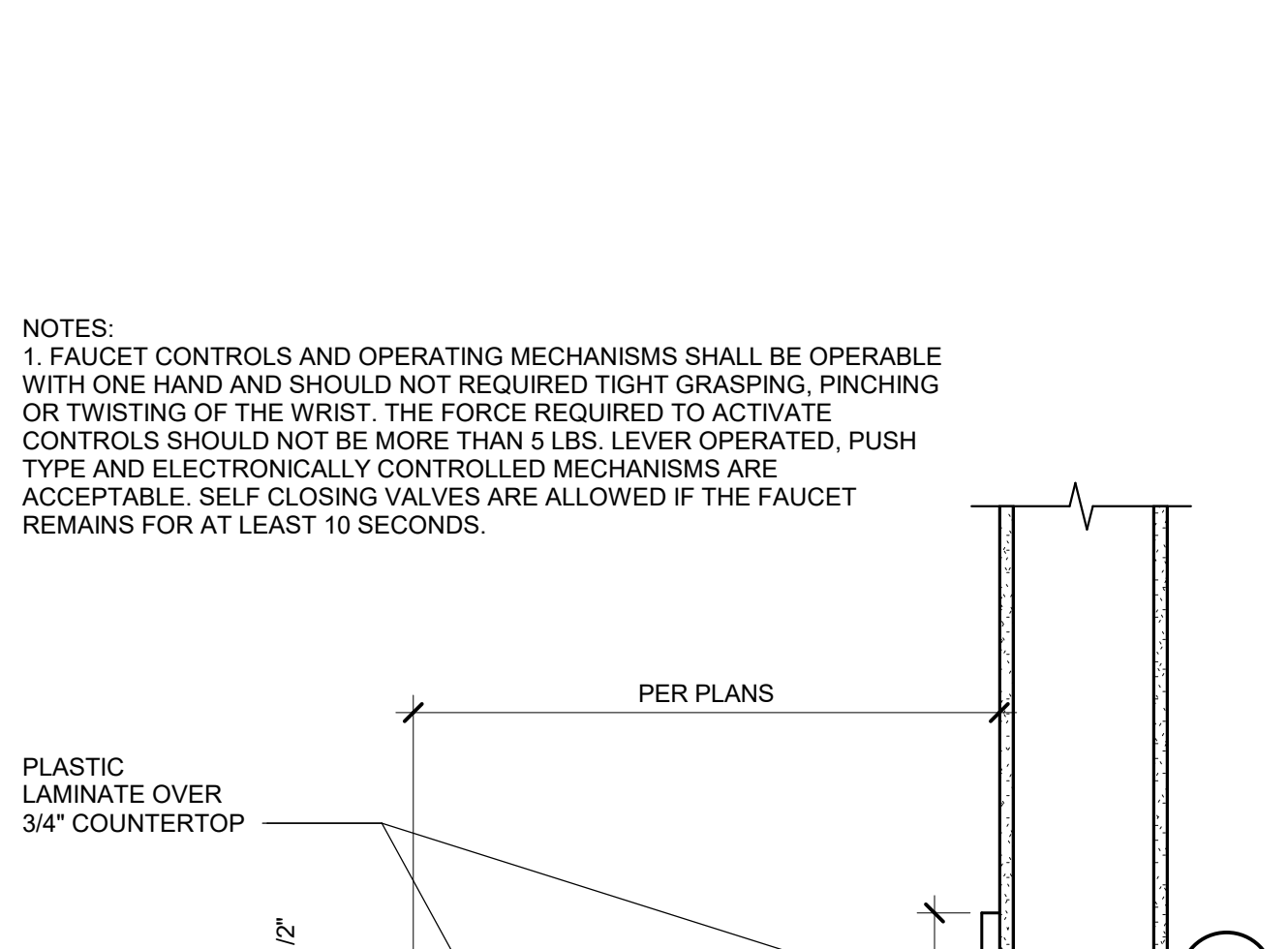
BASE CABINETS 1 1/2" = 1'-0" **7**



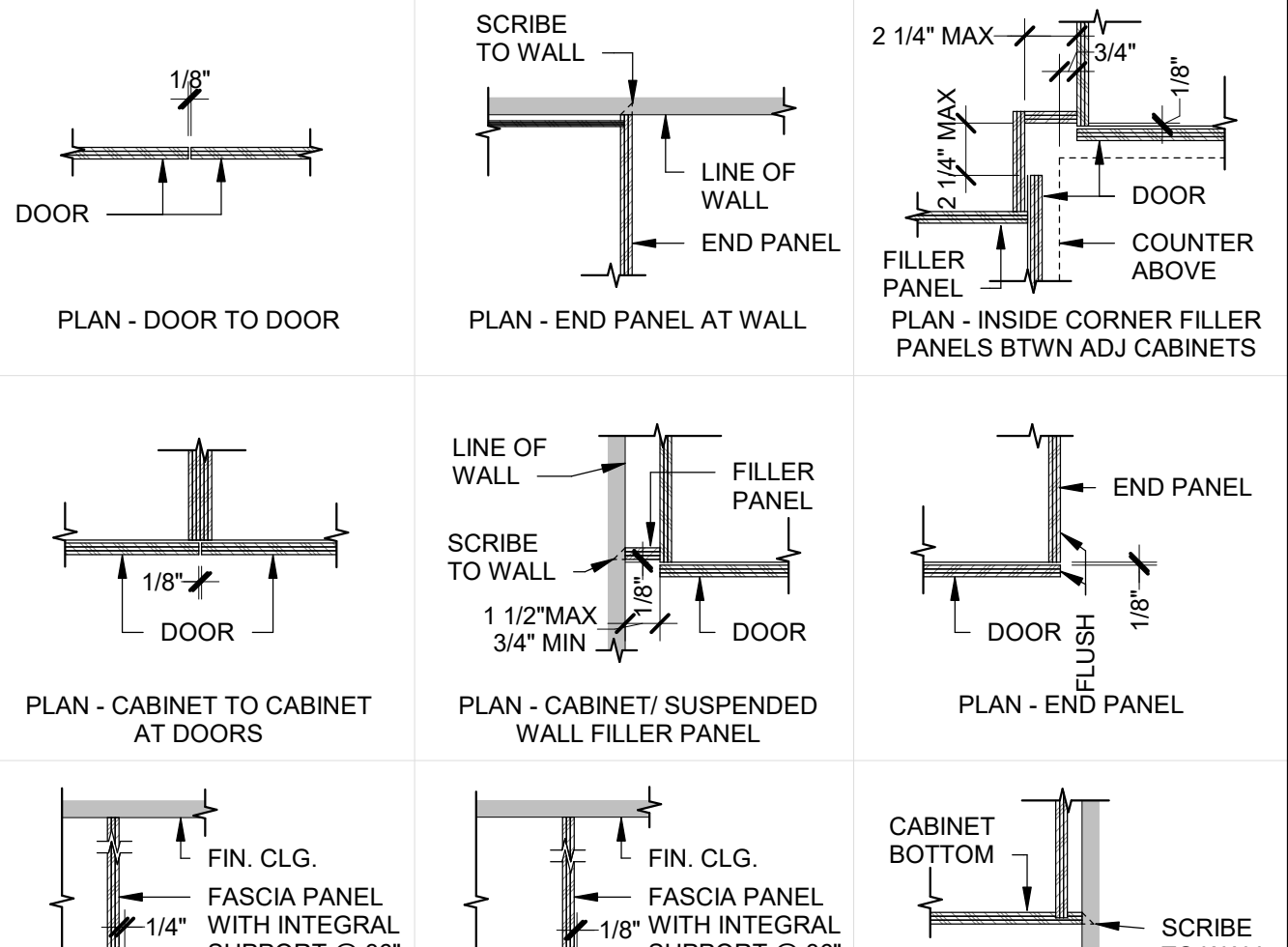
NOTES 1/2" = 1'-0" **2**



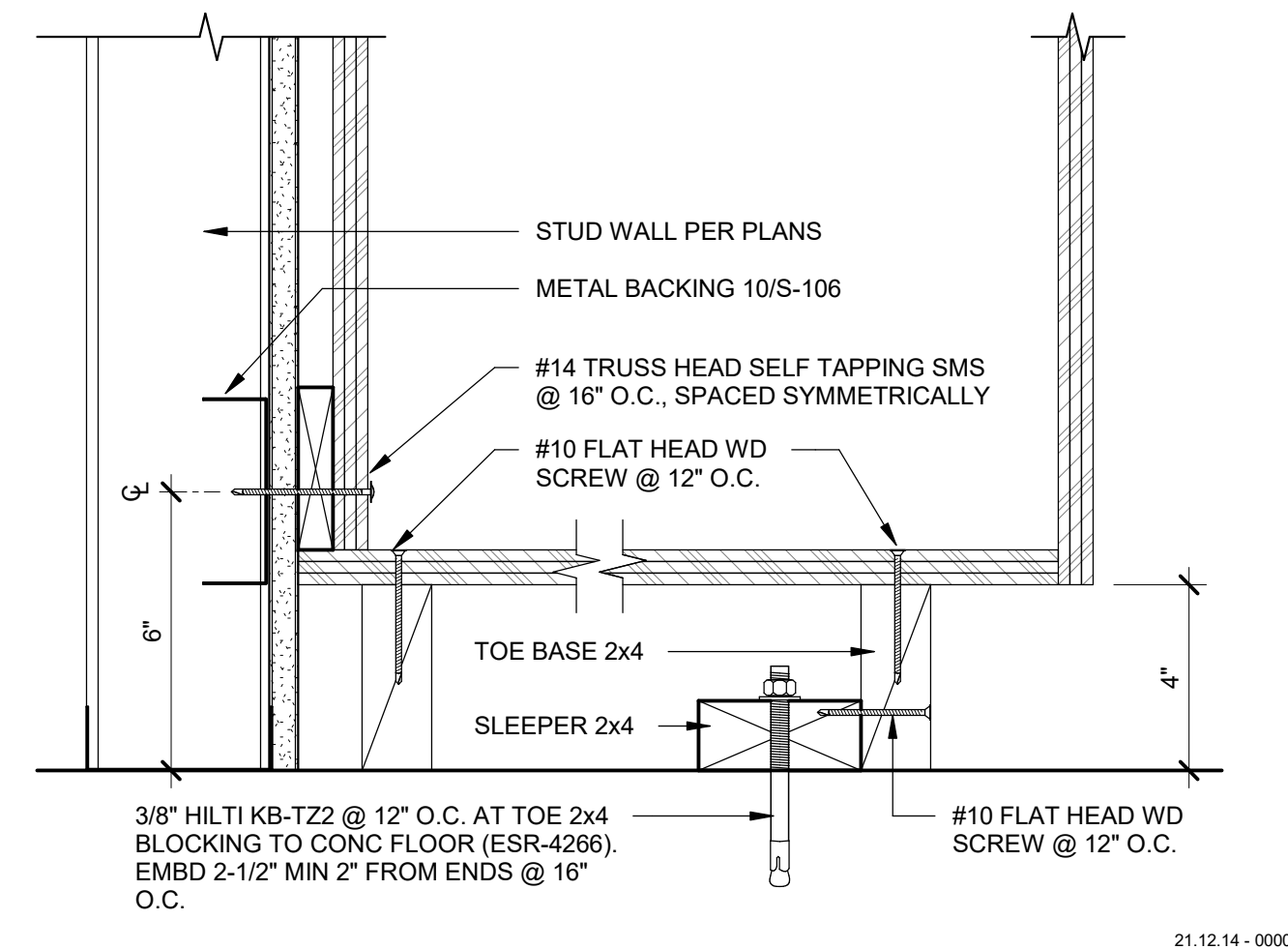
CABINERY BLOCKING 3" = 1'-0" **13**



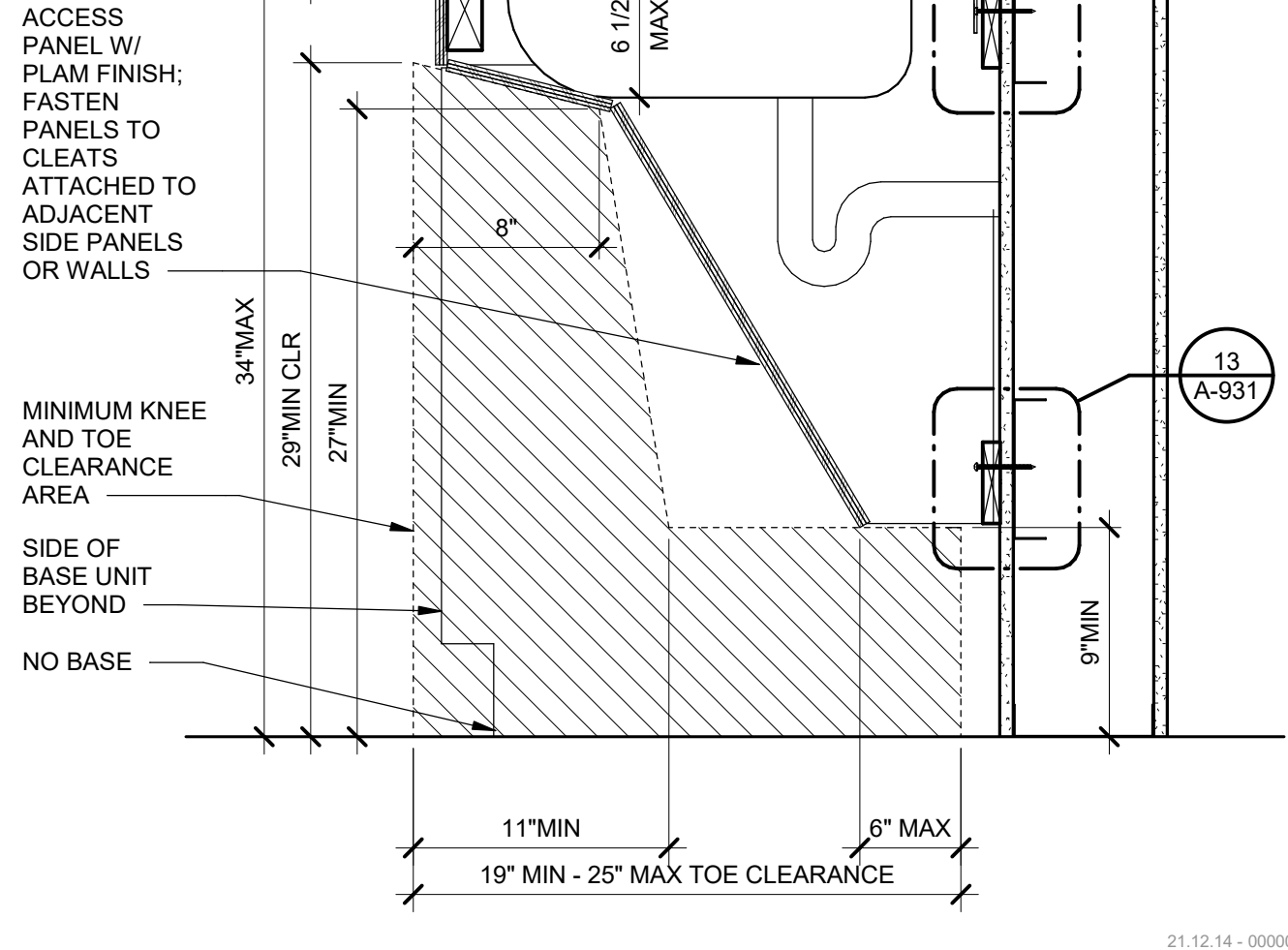
COUNTER SUPPORT - STEEL BRACKET 1 1/2" = 1'-0" **9**



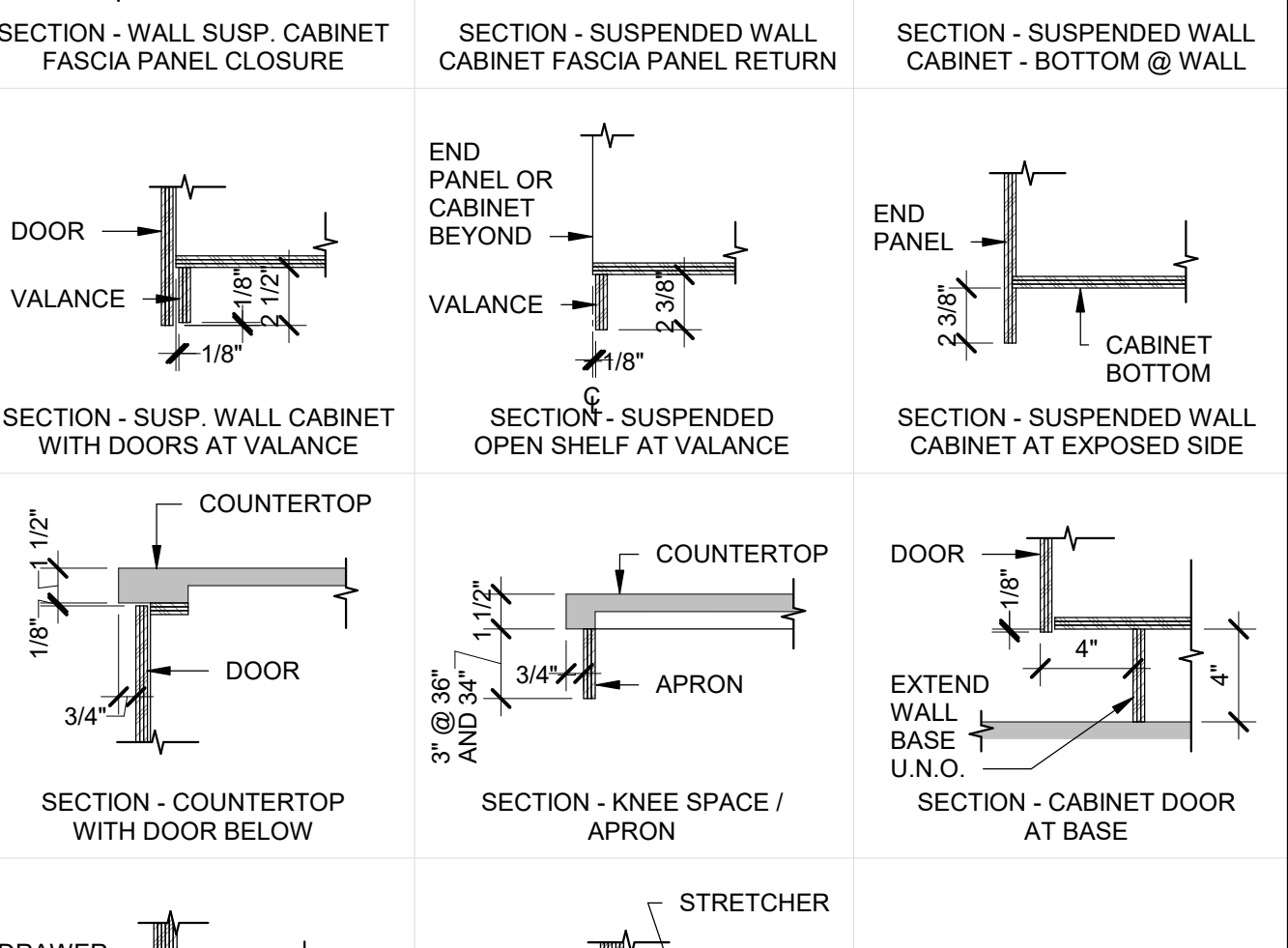
TYP. CASEWORK FINISH CONDITIONS 1 1/2" = 1'-0" **5**



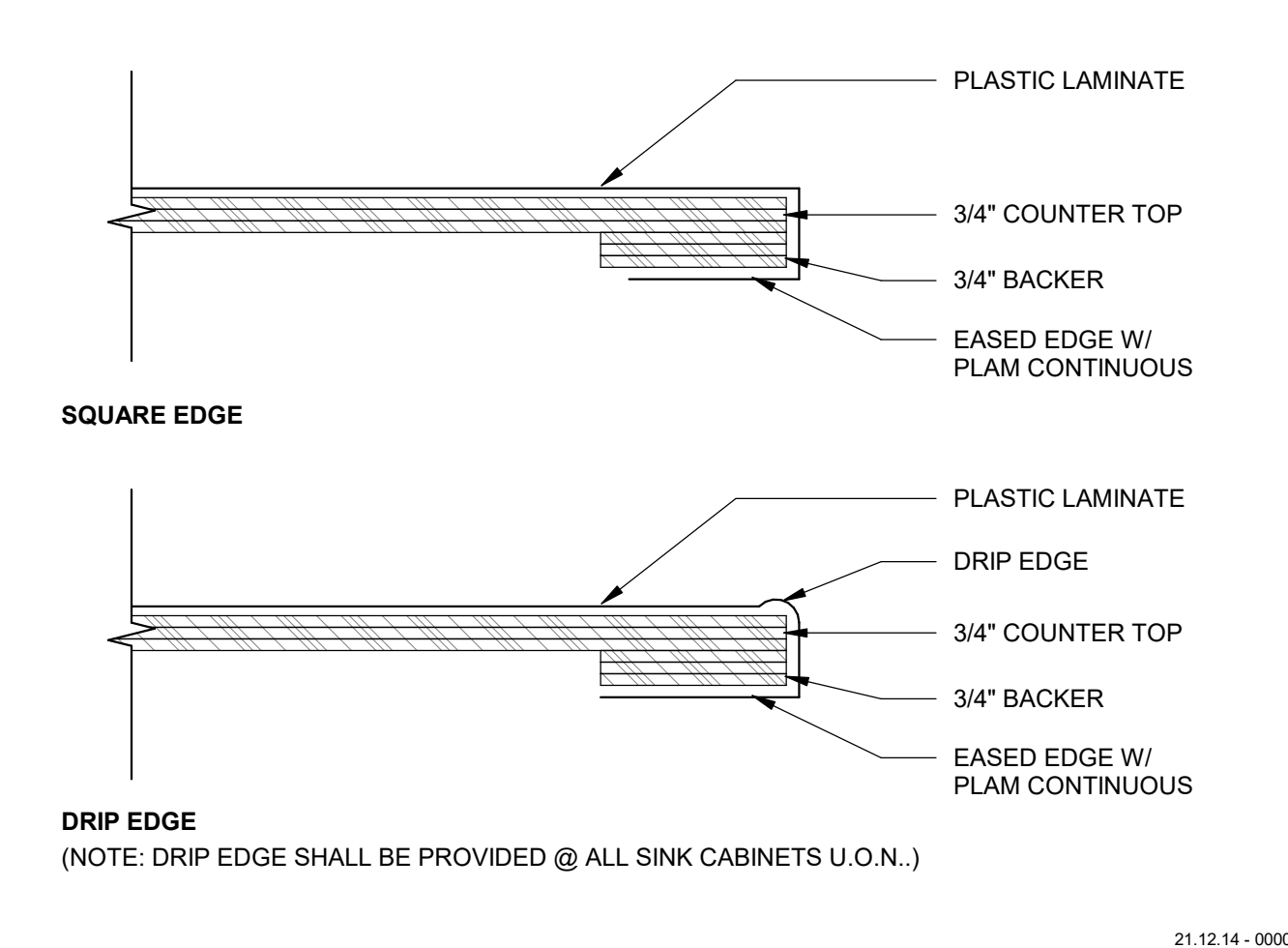
CABINERY BLOCKING 3" = 1'-0" **14**



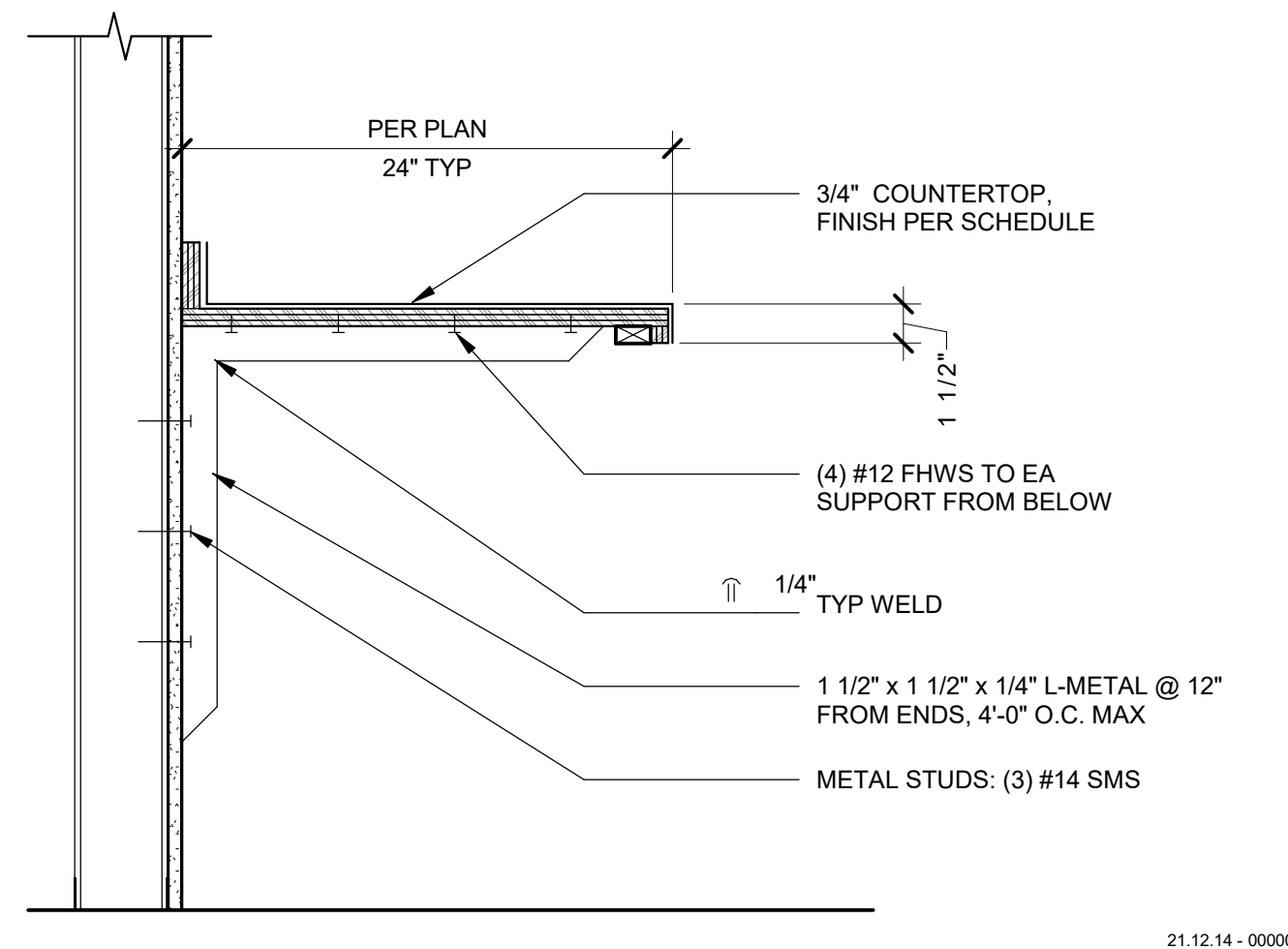
SINK CLOSURE 1 1/2" = 1'-0" **10**



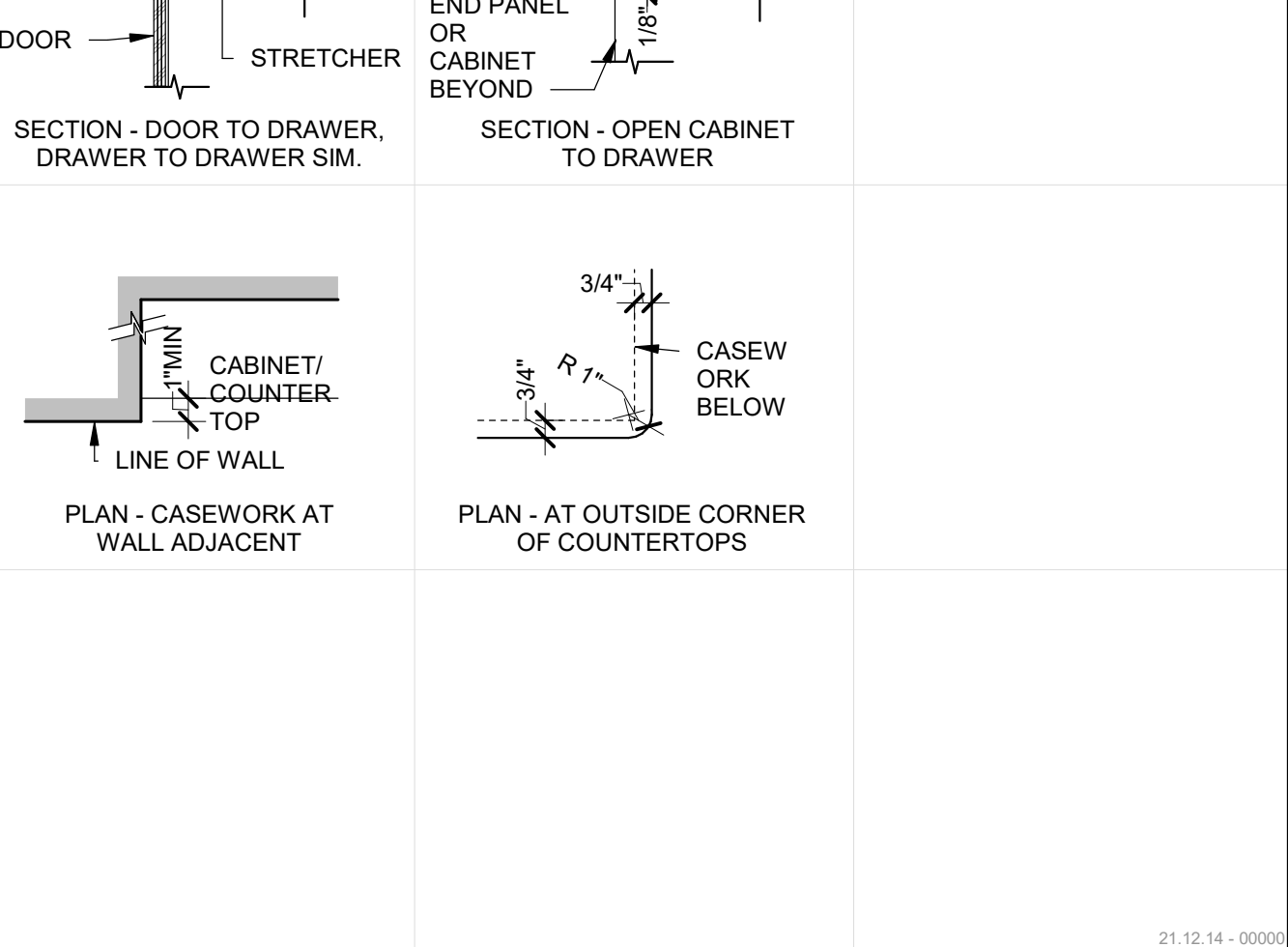
TYP. CASEWORK FINISH CONDITIONS 1 1/2" = 1'-0" **5**



TYPICAL EDGE CONDITION 3" = 1'-0" **15**



COUNTER SUPPORT - STEEL BRACKET 1 1/2" = 1'-0" **10**



TYP. CASEWORK FINISH CONDITIONS 1 1/2" = 1'-0" **5**

AMG

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19.6

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SAN LUIS OBISPO, CA 93401
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ARCHITECT STAMP CONSULTANT STAMP

LICENSED ARCHITECT
STATE OF CALIFORNIA
C-22474
After Strubel
REN 10-31-25
STATE OF CALIFORNIA

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1 Grand Avenue
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CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA 93407

SHEET TITLE
CASEWORK DETAILS

DRAWN BY: PA JOB NUMBER: 21179.01
SHEET NO.
A-931
DATE: MARCH 31, 2023

CONSTRUCTION DOCUMENTS

COLD FORMED METAL FRAMING (STRUCTURAL)

- 1. MATERIAL SPECIFICATIONS:
- 16 GA. AND HEAVIER, STUD AND TRACK
- 18 GA. AND LIGHTER, STUD AND TRACK
- ATTENTION TO THE STRUCTURAL ENGINEER AS SOON AS POSSIBLE FOR HIS APPROVAL. APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLATION.
- REPORT APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
- CONSTRUCT THIS WORK IN COMPLIANCE WITH THE 2019 CALIFORNIA BUILDING CODE.
- VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR, AND SHALL INSTALL, ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA FOR SAFETY, SCAFFOLDING, AND SHORING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO INSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK.
- BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PROJECT COMPLETE IN EVERY DETAIL AND READY FOR OCCUPANCY. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE THE BID DATE FOR CORRECTION.
- MAKE AND KEEP CURRENT A SET OF "RECORD DRAWINGS" SHOWING EXACT DIMENSIONED LOCATIONS OF UNDERGROUND UTILITIES, STUDS, UTOS, CONSTRUCTION CHANGES, ETC.
- DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ARCHITECT, AND THE STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CONTRACTOR PERFORMING THE UNDERPINNING WORK FOR THE ADJACENT BUILDING ON THE ADJACENT PROPERTY. GIVE ACCESS ACROSS THIS PROPERTY TO PERMIT UNDERPINNING OF THE ADJACENT PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTH EXCAVATION AND EARTH SHORING WORK, AND IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING FACILITIES AND ADJOINING PROPERTY.
- (E) DESIGNATES "EXISTING" AND (N) DESIGNATES "NEW."
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING ITEMS:
 A. SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS.
 B. LOCATION OF INTERIOR NON-BEARING WALLS.
 C. LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, ETC.
 D. STAIR AND RAILING DIMENSIONS AND CLEARANCES.
- SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS IN ROOF, FLOOR, AND WALLS.

STEEL DECK

- 1. MATERIAL SPECIFICATIONS:
- ROOF AND FLOOR DECK
- GALVANIZING COATING
- SCREWS
- WELDING
- PROVIDE DECK FROM A MANUFACTURER THAT HAS A CURRENT "ESR" REPORT. SUBMIT REPORT TO THE OWNER'S REPRESENTATIVE PRIOR TO PREPARING SHOP DRAWINGS.
- SEE TYPICAL STEEL DECK DETAIL FOR DECK MINIMUM PROPERTIES.
- PROVIDE TWO-SPAN MINIMUM DECKING INSTALLATION U.N.O.
- USE AWS CERTIFIED LIGHT GAGE WELDERS WITH CURRENT CERTIFICATION. SPECIAL INSPECTION OF WELDING IS NOT REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR AREAS OF EXPOSED DECK. PROTECT THIS DECK DURING SHIPPING, STORAGE, AND INSTALLATION TO PRESERVE APPEARANCE.
- PROVIDE CELL CLOSURES AT EXPOSED ENDS OF DECK.
- CONNECT TOP SEAMS WITH PUNCHLOK, OR TOP SEAM WELD, OR #10x3/4" SCREWS. BUTT PUNCH IS NOT ACCEPTABLE.
- PROVIDE FULL WIDTH SHEET (3'-0") EACH SIDE OF DRAG LINES WHERE DECK SPANS PARALLEL TO DRAG LINE.
- DO NOT SUSPEND OR BRACE PIPING, CONDUIT, DUCTS, OR MECHANICAL UNITS FROM STEEL DECK. IT IS ACCEPTABLE TO SUSPEND CEILING SYSTEMS FROM DECK IF CEILING SYSTEM IS LESS THAN 5 PSF.
- PROVIDE 1 1/2" MINIMUM BEARING LENGTH FOR ROOF DECK WITHOUT CONCRETE FILL U.N.O. PROVIDE 2" MINIMUM BEARING LENGTH FOR FLOOR DECK U.N.O.
- PROVIDE SUMP PANS AT RECESSED ROOF DRAINS. REINFORCE CUT DECK PER TYPICAL DETAIL.
- PROVIDE CLOSURE PLATES AT EDGES OF FLOOR AND AT DECK PENETRATIONS.
- PROVIDE VENTED DECK WHERE DECK SUPPORTS CONCRETE FILL.
- CONDUIT IN SLABS ON STEEL DECK:
 - MAXIMUM DIAMETER IS 1/3 OF CONCRETE THICKNESS ABOVE TOP FLUTE.
 - MINIMUM SPACING BETWEEN CONDUITS IS 8".
 - PLACEMENT PERPENDICULAR TO FLUTES.
 - IN LOWER 2/3 OF CONCRETE THICKNESS ABOVE TOP FLUTE.
 - PLACEMENT PARALLEL TO FLUTES.
 - NEAR BOTTOM OF FLUTES WITH 1" CLEAR ALL AROUND.
- PROVIDE A LIGHT BROOM FINISH ON CONCRETE SLABS.
- SPRAY SLABS WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH FLOOR FINISH TO BE APPLIED.
- DO NOT POUR CONCRETE SLAB ON GRADE UNTIL AFTER STEEL ERECTION IS COMPLETE

WELDING

- 1. MATERIAL SPECIFICATIONS:
- WELDING ELECTRODES
- WELD CLASSIFICATIONS AND STANDARDS:
 - NOT PART OF SLRS
 - PART OF SLRS, NOT DEMAND CRITICAL
 - PART OF SLRS, DEMAND CRITICAL
- NOTE: SLRS = SEISMIC LOAD RESISTING SYSTEM
- WELD FILLER METAL MINIMUM REQUIREMENTS:
 - PART OF SLRS, NOT DEMAND CRITICAL
 - PART OF SLRS, DEMAND CRITICAL
- NOTE: CVN = CHARPY V-NOTCH TOUGHNESS
- SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS (WPS) TO THE STRUCTURAL ENGINEER AT THE TIME OF STEEL SHOP DRAWING FIRST SUBMITTAL. FOR EACH JOINT TYPE, THE WPS SHALL SPECIFY ALL APPLICABLE ESSENTIAL VARIABLES OF AWS D1.1, AND FOR DEMAND CRITICAL WELDS, THE WPS SHALL ALSO LIST:
 - ELECTRODE MANUFACTURER AND TRADE NAME
 - WELDING VARIABLES THAT PRODUCE HEAT INPUTS QUALIFIED BY AWD D1.8, ANNEX A.
- PERFORM WELDING IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF AWS D1.1 "STRUCTURAL WELDING CODE-STEEL", AWS D1.3 "STRUCTURAL WELDING CODE-SHEET STEEL", AWS D1.4 "STRUCTURAL WELDING CODE-REINFORCING STEEL", AND AWS D1.8 "STRUCTURAL WELDING CODE-SEISMIC SUPPLEMENT - PRESENT EVIDENCE THAT EACH WELDER HAS SATISFACTORILY PASSED AWS QUALIFICATION TESTS FOR WELDING PROCESSES INVOLVED AND, IF PERTINENT, HAS UNDERGONE RECERTIFICATION.
- KEEP A COPY OF EACH WPS ONSITE FOR REFERENCE BY THE SPECIAL INSPECTOR.
- INSPECTION OF A DEMAND CRITICAL WELDING SHALL COMPLY WITH AWS D1.1 AND AWS D1.8 SECTION 7.
- WELDING IS NOT PERMITTED WITH THE "K" AREA OF STEEL SECTIONS, AS DEFINED IN AWS D1.8 SECTION 3.6.
- WELDS ON NEAR AND FAR SIDES OF A PIECE ARE IDENTICAL U.N.O.
- WHERE GALVANIZED STEEL IS FIELD WELDED, PAINT WELDS WITH GALVANIZING REPAIR PAINT.
- WHERE FILLET WELDS ARE SPECIFIED AT RADIUS EDGES OF STEEL MEMBERS, PROVIDE FLARE-BEVEL-GROOVE WELDS OF SAME SIZE.

STRUCTURAL STEEL

- 1. MATERIAL SPECIFICATIONS:
- WIDE FLANGE SHAPES
- WT SHAPES
- ANGLES, CHANNELS, PLATES, BARS
- PLATES AT SEISMIC CONNECTIONS
- HOLLOW STEEL SHAPES (RECT. & SQ.)
- HOLLOW STEEL SHAPES (ROUND)
- NON HIGH-STRENGTH BOLTS
- HIGH-STRENGTH BOLTS
- ANCHOR RODS FOR STEEL
- SILL BOLTS
- THREADED RODS
- HEADS, AND ABRASIONS.
- HSS REFERS TO SQUARE, RECTANGULAR, AND ROUND HOLLOW STRUCTURAL SECTIONS.
- PROVIDE ONE (1) COAT, 2.5 MILS (DRY FILM THICKNESS) MINIMUM, OF FABRICATOR'S STANDARD LEAD AND CHROMATE FREE, NONASPHALTIC, RUST-INHIBITING PRIMER TO STEEL NOT ENCASED IN CONCRETE OR CONCRETE BLOCK. PROVIDE TWO (2) COATS ON PORTIONS OF THE WORK THAT ARE INACCESSIBLE AFTER ERECTION. AFTER ERECTION, PROVIDED TOUCH-UP COAT ON NUTS, BOLT HEADS, AND ABRASIONS.
- HOT DIP GALVANIZED STEEL ASSEMBLIES EXPOSED TO WEATHER, INCLUDING CONNECTIONS, AFTER FABRICATION IN ACCORDANCE WITH ASTM A-123 (MEMBERS) OR ASTM A-153 (NUTS & BOLTS).
- PROVIDE STANDARD DIAMETER BOLT HOLES (1/16" LARGER THAN BOLT SIZE) IN CONNECTIONS.
- BASE PLATES FOR COLUMNS NOT PART OF THE LATERAL FORCE RESISTING SYSTEM MAY HAVE HOLES UP TO 3/16" LARGER THAN ANCHOR ROD SIZE WITHOUT REQUIRING WELD WASHERS.
- PROVIDE A PREMIXED, NONMETALLIC, SHRINKAGE RESISTANT GROUT COMPLYING WITH ASTM C1107 UNDER COLUMN BASE PLATES.
- SUBMIT SHOP DRAWINGS OF STEEL WORK TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. DO NOT START FABRICATION UNTIL AFTER RECEIPT OF REVIEW COMMENTS. PROVIDE DRAWINGS ON SHEET OF 24" x 36" MINIMUM.
- CORRECT MIS-ALIGNED BOLT HOLES BY PUNCHING OR DRILLING NEW HOLES. FLAME CUTTING IS NOT ALLOWED.
- NO PAINT AT FAYING SURFACES OF BOLTED CONNECTIONS, CLASS "A" FAYING SURFACE
- FOR SEISMIC BRACE PROTECTION ZONE REQUIREMENTS AND LABELING SEE
- CONCRETE

CONCRETE

- 1. MATERIAL SPECIFICATIONS:
- CONCRETE STRENGTH (FC)
- CEMENT
- FLY ASH
- COARSE AGGREGATE (1" MAX)
- FINE AGGREGATE
- LIGHT WEIGHT AGGREGATE
- CONCRETE MIX DESIGN: SUBMIT CONCRETE MIX DESIGN, PREPARED BY THE CONCRETE SUPPLIER, TO ARCHITECT FOR REVIEW. PROVIDE CONCRETE MIX WITH MINIMUM 5.7 SACKS OF CEMENT PER CUBIC YARD, MAXIMUM WATER/CEMENT RATIO OF .50 AND MAXIMUM SLUMP OF 5". LIMIT FLY ASH, IF USED, TO A MAXIMUM OF 25% REPLACEMENT OF MIX. FOR SLABS ON GRADE, USE MAXIMUM WATER/CEMENT RATIO OF 0.42.
- PROVIDE "PEA GRAVEL" AGGREGATE IN HARDROCK CONCRETE IN FLOOR SLABS OVER METAL DECK.
- PROVIDE READY-MIX CONCRETE, MIXED AND DELIVERED PER ASTM C94-81.
- MAKE AND TEST CONCRETE CYLINDERS ACCORDING TO ASTM C192. MAKE A MINIMUM OF TWO (2) SETS FOR FOUNDATIONS AND TWO (2) SETS FOR INTERIOR SLAB-ON-GRADE. EACH SET CONSISTS OF FOUR CYLINDERS. TEST ONE (1) CYLINDER AT 7 DAYS, TWO (2) AT 28 DAYS, AND HOLD (1) CYLINDER. REPORT TEST RESULTS TO THE ARCHITECT.
- DO NOT POUR CONCRETE UNTIL STEEL PLACEMENT HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- VIBRATE CONCRETE WITH ELECTRICALLY OPERATED VIBRATION EQUIPMENT AS IT IS BEING PLACED.
- DO NOT PLACE PIPES, CONDUITS, OR DUCTS IN CONCRETE COLUMNS, BEAMS, OR SLABS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT.
- FIRMLY SECURE ANCHOR BOLTS, REINFORCING STEEL, DOWELS AND OTHER INSERTS, IN POSITION PRIOR TO POURING CONCRETE.
- LOCATION OF SLEEVES FOR PIPES, AND FOR PIPES INTENDED TO BE CAST IN CONCRETE. FOR WHICH NO SPECIFIC DETAILS ARE SHOWN SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. DETAILS OF SUCH ASSEMBLIES SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER.
- IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN, THEY SHALL SUBMIT THE DETAILS OF SUCH JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- MAKE SAW CUT CONTROL JOINTS IN SLAB-ON-GRADE AS SOON AS THE SLAB CAN SUPPORT THE SAW AND OPERATOR, NOT LATER THAN EIGHTEEN (18) HOURS AFTER PLACING CONCRETE. SAWCUT DEPTH TO BE 1/3 OF SLAB THICKNESS, U.N.O.
- PROVIDE A LIGHT BROOM FINISH ON CONCRETE SLABS.
- SPRAY SLABS WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH FLOOR FINISH TO BE APPLIED.
- DO NOT POUR CONCRETE SLAB ON GRADE UNTIL AFTER STEEL ERECTION IS COMPLETE

ROUGH CARPENTRY

- 1. MATERIAL SPECIFICATIONS:
- SHEATHING
- PLYWOOD
- FASTENERS:
 - BOLTS
 - LAG BOLTS
 - NAILS
 - SIMPSON STRONG-TIE OR APPROVED EQUAL
- PLYWOOD: DOUGLAS FIR OR SOUTHERN PINE "STRUCTURAL", INTERIOR TYPE, CD GRADE WITH EXTERIOR GLUE. PLYWOOD SHALL BE GRADE MARKED BY DFP, TECO, OR PTL, AND CONFORM TO PS 1-95
- DRILL BOLT HOLES 1/16" LARGER THAN THE BOLT NOMINAL DIAMETER.
- MINIMUM DIMENSION OF ANY PLYWOOD SHEET IS 24" AND THE MINIMUM AREA IS SIX (6) SQUARE FEET.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE, SPECIES, GRADE, AND MILLING OF EXPOSED FRAMING.
- INSTALL STANDARD CUT WASHERS UNDER HEAD AND NUTS OF BOLTS. SEE WASHER SCHEDULE FOR SIZES.

LOAD-BEARING STEEL STRUT

- 1. MEMBER AND CONNECTOR DESIGNATIONS ARE B-LINE.
- B-LINE SUBMITTALS ARE NOT REQUIRED FOR SPECIFIED MEMBERS AND CONNECTORS. FOR OTHER MANUFACTURERS (UNISTRUT, POWERS/STRUT, TOLCO, ETC.) SUBMIT MANUFACTURERS CATALOG, VALID EVALUATION REPORTS, SIDE-BY-SIDE SUBSTITUTION TABLE, AND TABULAR COMPARISON OF DESIGN PROPERTIES FOR SUBSTITUTE CONNECTORS.
- 1/2" MACHINE BOLT INSTALLATION TORQUE IS 50 FT-LBS IN STRUT. 3/8" MACHINE BOLT INSTALLATION TORQUE IS 19 FT-LBS IN STRUT.
- STRUTS ARE UNPUNCHED UNLESS NOTED OTHERWISE. FIELD DRILL HOLES FOR BOLTS AND CONNECTIONS 1/16" INCH OVERSIZE.
- FOR UTILITY TRAPEZES, CHANNELS MAY BE INSTALLED FACING UP OR DOWN AND PIPING/CONDUIT MAY RUN ON TOP OR BOTTOM OR BOTH.

GENERAL

- 1. UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY.
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THE DETAILS THAT ARE SHOWN FOR LIKE CONDITIONS. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AS SOON AS POSSIBLE FOR HIS APPROVAL. APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLATION.
- REPORT APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
- CONSTRUCT THIS WORK IN COMPLIANCE WITH THE 2019 CALIFORNIA BUILDING CODE.
- VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR, AND SHALL INSTALL, ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA FOR SAFETY, SCAFFOLDING, AND SHORING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO INSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK.
- BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PROJECT COMPLETE IN EVERY DETAIL AND READY FOR OCCUPANCY. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE THE BID DATE FOR CORRECTION.
- MAKE AND KEEP CURRENT A SET OF "RECORD DRAWINGS" SHOWING EXACT DIMENSIONED LOCATIONS OF UNDERGROUND UTILITIES, STUDS, UTOS, CONSTRUCTION CHANGES, ETC.
- DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ARCHITECT, AND THE STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CONTRACTOR PERFORMING THE UNDERPINNING WORK FOR THE ADJACENT BUILDING ON THE ADJACENT PROPERTY. GIVE ACCESS ACROSS THIS PROPERTY TO PERMIT UNDERPINNING OF THE ADJACENT PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTH EXCAVATION AND EARTH SHORING WORK, AND IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING FACILITIES AND ADJOINING PROPERTY.
- (E) DESIGNATES "EXISTING" AND (N) DESIGNATES "NEW."
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING ITEMS:
 A. SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS.
 B. LOCATION OF INTERIOR NON-BEARING WALLS.
 C. LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, ETC.
 D. STAIR AND RAILING DIMENSIONS AND CLEARANCES.
- SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS IN ROOF, FLOOR, AND WALLS.

FOUNDATIONS

- 1. A GEOTECHNICAL INVESTIGATION WAS PREPARED FOR THIS PROJECT BY EARTH SYSTEMS PACIFIC, FILE NO. 302696-048, DATED JULY 19, 2021. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS INCLUDE ALL PERTINENT DATA FOR THE FOUNDATION DESIGN.
- FOUNDATION DESIGN CRITERIA:
 - BEARING PRESSURE: 3,000 PSF (DL + LL)
 - PASSIVE PRESSURE: 350 PCF
 - FRICTION COEFF.: 0.30
- SEE SPECIFICATIONS FOR SPECIAL GRADING PROCEDURES UNDER BUILDING AND PAVED AREAS.
- EXTEND FOOTINGS A MINIMUM OF 24 INCHES INTO FINISH GRADE. BEAR FOOTINGS ON ENGINEERED FILL AS INDICATED.
- PRIOR TO POURING CONCRETE FOOTINGS, REMOVE ALL LOOSE EARTH, WATER, AND DEBRIS FROM THE FOUNDATION BED.
- AFTER FOUNDATION EXCAVATIONS HAVE BEEN COMPLETED AND PRIOR TO PLACING REINFORCING AND FORMWORK, THE FOUNDATION BED SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER. REMOVE LOOSE MATERIAL AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER OR SEEPAGE.
- BACKFILL AROUND FOUNDATIONS WITH SOIL MATERIAL EXCAVATED FROM THE SITE, PLACED IN 6-INCH LAYERS, COMPACTED TO A MINIMUM OF 90% WITH AIR OR GASOLINE OPERATED EQUIPMENT. NO FLOORING OR JETTING OF BACKFILL.
- PROTECT BANKS ON THE SITE FROM CAVING.
- FORMWORK STAKES ARE NOT PERMITTED WITHIN FOOTING SECTIONS.

REINFORCING STEEL

- 1. MATERIAL SPECIFICATIONS:
- STANDARD REINFORCING BARS
- WELDABLE REINFORCING BARS
- FABRICATE AND PLACE REINFORCING BARS IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND THE CONTRACT DRAWINGS. PROVIDE STANDARD ACI HOOKS ON REINFORCING BARS PER THE TYPICAL DETAIL UNLESS NOTED OTHERWISE.
- IN CONCRETE, LAP SPICE REINFORCING BARS IN ACCORDANCE WITH THE SCHEDULE ON THE DRAWINGS AND SECURELY WIRE TOGETHER. STAGGER SPLICES OF ADJACENT BARS.
- IN CONCRETE BLOCK, LAP SPICE BARS 48 DIAMETERS EXCEPT AT WALL JAMB BARS PROVIDE 72 DIAMETER SPICE.
- PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING AS FOLLOWS:
 - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - CAST IN FORMS AND EXPOSED TO EARTH OR WEATHER: 2"
 - INTERIOR SLABS, WALLS, AND JOINTS: 1"
 - INTERIOR BEAMS, GIRDER AND COLUMNS: 1.5"

FIRE SPRINKLERS

- 1. WET-PIPED FIRE SPRINKLERS ARE PRESENT IN THIS BUILDING.
- BRACE FIRE SPRINKLER PIPING IN ACCORDANCE WITH THE CURRENT NFPA-13.
- DO NOT CUT OR NOTCH STEEL FRAMING FOR SPRINKLER LINES. IF NECESSARY, DRILL HOLES AND REINFORCE PER TYPICAL DETAIL.

DESIGN CRITERIA

Table with columns: BUILDING CODE (2019 CALIFORNIA BUILDING CODE (CBC)), GRAVITY DESIGN LOADS (ROOF DEAD LOAD: 28.0 PSF, ROOF LIVE LOAD: 20.0 PSF, etc.), WIND DESIGN DATA (BASIC WIND SPEED: 98 MPH, RISK CATEGORY: III, etc.), SEISMIC DESIGN DATA (RISK CATEGORY: III, IMPORTANCE FACTOR: 1.25, etc.).

AUTHORITY HAVING JURISDICTION

- 1. THE CALIFORNIA STATE UNIVERSITY SYSTEM

DEFERRED APPROVALS

- 1. ELEVATOR SUPPORT CONNECTIONS
2. PEDESTRIAN BRIDGE
3. STOREFRONT MULLIONS

NOTIFICATION

- NOTIFY THE STRUCTURAL ENGINEER AT THE FOLLOWING TIMES:
- 24 HOURS IN ADVANCE OF THE TIME THAT THE SITE GRADING WORK BEGINS.
- 24 HOURS IN ADVANCE OF THE TIME THAT THE EARTH FILL OPERATION BEGINS.
- AT START OF CONSTRUCTION.
- AFTER FOUNDATION EXCAVATIONS HAVE BEEN MADE AND PRIOR TO PLACING REINFORCING STEEL AND FORMWORK.
- PRIOR TO EACH CONCRETE POUR.
- PRIOR TO START OF STEEL DECK INSTALLATION.
- AFTER ERECTION OF ALL STEEL WORK.
- AFTER COMPLETION OF ALL STRUCTURAL WELDING, PRIOR TO FIREPROOFING OR CLOSING IN.
- WHEN ROUGH FRAMING IS COMPLETED AND PRIOR TO START OF FINISH WORK.
- PRIOR TO COVERING PLYWOOD WALL SHEATHING, AND HOLDOWN ANCHORS.

STRUCTURAL OBSERVATION PROGRAM

IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE (CBC) SECTION 1704.6, THE STRUCTURAL ENGINEER OF RECORD WILL PROVIDE STRUCTURAL OBSERVATION. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. REPORTS SHALL BE SUBMITTED TO THE GOVERNING AUTHORITY PRIOR TO COMPLETION OF EACH PHASE OF WORK. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE RESPONSIBILITY FOR INSPECTIONS BY THE BUILDING OFFICIAL OR SPECIAL INSPECTORS REQUIRED BY CBC, SECTION 110, AND CBC SECTION 1705 OR OTHER SECTIONS.
NOTE: NOTIFY THE STRUCTURAL ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING TIMES:
1. FOUNDATION: PRIOR TO POURING CONCRETE FOOTINGS.
2. STRUCTURAL STEEL: AT COMPLETION OF STRUCTURAL STEEL AND METAL ROOF DECK INSTALLATION.
3. ROUGH CARPENTRY: AT COMPLETION OF THE FOLLOWING WORK:
 A. PLYWOOD SHEAR WALL NAILING AND SILL BOLTING

SHEET INDEX table with columns: #, SHEET NUMBER, GENERAL NOTES, SHEET NAME. Lists sheets 1 through 18 including typical concrete details, steel deck details, metal stud details, elevations, framing plans, and foundation details.

AGENCY APPROVAL

CSU The California State University OFFICE OF FIRE SAFETY. CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY. Approved by: [Signature] 07/19/2023. CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG 26535 SUMMIT CIRCLE SANTA CLARITA, CA 91350 TEL (661) 251-7401. 19.6 560 HIGUERA STREET, SUITE C SAN LUIS OBISPO, CA 93401 TEL (805) 476-0399

CONSULTANTS CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 FIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896. LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 91203 TEL (760) 220-6811. STRUCTURAL ENGINEER ALFATECH 1516X STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210. MECHANICAL ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005. ELECTRICAL ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005

ARCHITECT STAMP: LICENSED ARCHITECT ALFATECH C-22474. CONSULTANT STAMP: LICENSED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING No. 4313 Exp. 9/30/24. 05/30/2023

REVISIONS table with columns: NO., DATE, DESCRIPTION. Revision 1: 4/20/2023, Revision 1.

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93401

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SHEET TITLE

GENERAL NOTES

DRAWN BY: JHR JOB NUMBER: 21179.01

SHEET NO.

S-101


DATE: APRIL 20, 2023

DATE PLOTTED: 5/30/2023 8:06:29 AM FILE LOCATION: \\SERVER\data\PROJECT DATA\2021\21-140 - 21179.00 Cal Poly Technology Center\CAD DRAWINGS\STRUCTURAL\active_21-140\21-140_Cal_Poly_Tech_Center_R22.rvt

REQUIRED VERIFICATION & INSPECTION OF PROPRIETARY ITEMS		
VERIFICATION AND INSPECTION	SPECIAL INSPECTION	
	CONTINUOUS	PERIODIC
1. POST INSTALLED ANCHORS; VERIFY INSTALLATION IN ACCORDANCE WITH ICC ESR REPORTS.		YES
2. POST INSTALLED ANCHORS; VERIFY LAYOUT OF EXISTING REINFORCING STEEL PRIOR TO DRILLING HOLES FOR NEW ANCHORS.		
3. METAL DECK; VERIFY INSTALLATION IN ACCORDANCE WITH THE ICC ESR REPORT.		YES
4. DEFORMED BAR ANCHORS AND WELDED STUDS; VERIFY INSTALLATION IN ACCORDANCE WITH THE ICC ESR REPORTS.		YES

REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS		
VERIFICATION AND INSPECTION	SPECIAL INSPECTION	
	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		YES
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		YES
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		YES
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	YES	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		YES

ABBREVIATIONS			
AB	ANCHOR BOLT	LTWT	LIGHT WEIGHT
ADD'L	ADDITIONAL	LVL	LAMINATED VENEER LUMBER
AESS	ARCH'L EXPOSED STRUCTURAL STEEL		
AFF	ABOVE FINISH FLOOR	MAS	MASONRY
ARCH	ARCHITECT	MATL	MATERIAL
ARCH'L	ARCHITECTURAL	MAX	MAXIMUM
		MB	MACHINE BOLT
(B)	BOTTOM	ML	MICRO-LAM BEAM
BLK	BLOCK	MECH	MECHANICAL
BLK'G	BLOCKING	MIN	MINIMUM
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING		
BO	BOTTOM OF	(N)	NEW
BOT	BOTTOM	NIC	NOT IN CONTRACT
BS	BOTH SIDES	NO (#)	NO. (#)
BTWN	BETWEEN	NS	NEAR SIDE
		O'	OVER
CJ	CEILING JOIST or CONTROL JOINT	O.C.	ON CENTER
CJP	COMPLETE JOINT PENETRATION	OD	OUTSIDE DIAMETER
CL	CENTERLINE	OPNG	OPENING
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT	PERP	PERPENDICULAR
COL	COLUMN	PJP	PARTIAL JOINT PENETRATION
CONC	CONCRETE	P	PLYWOOD
CONST	CONSTRUCTION	PL	PANEL
CONT	CONTINUOUS	PL	PARALLEL STRAND LUMBER
CONX	CONNECTION	PT	POINT
CTR	CENTER	PTDF	PRESSURE TREATED DOUGLAS FIR
CTSK	COUNTERSINK		
		RAD	RADIUS
DBA	DEFORMED BAR ANCHOR	REIN	REINFORCED or REINFORCING
DBL	DOUBLE	REQ'D	REQUIRED
DET	DETAIL	RET	RETURN
DF	DOUGLAS FIR	REV	REVISION
DIA	DIAMETER	RFD	RIPED FOR SLOPE
DIAG	DIAGONAL	RGH	ROUGH
DO	DITTO (REPEAT INDICATED MEMBER)	RR	ROOF RAFTER
DM	DIAMENSION	RWD	RED WOOD
DWG	DRAWING		
		S4S	SURFACED (4) SIDES
(E)	EXISTING	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EA	EACH	SCH	SCHEDULE
EF	EACH FACE	SCR	SCREW
ELEV	ELEVATION	SECT	SECTION
EN	EDGE NAILING	SC	SLIP CRITICAL
EQ	EQUAL	SHT'G	SHEATHING
EXP	EXPANSION	SHT	SHEET
EXT	EXTERIOR	SM	SIMILAR
EW	EACH WAY	SLH	SHORT LEG HORIZONTAL
		SLV	SHORT LEG VERTICAL
FFE	FINISH FLOOR ELEVATION	SLRS	SEISMIC LOAD RESISTING SYSTEM
FHWS	FLAT HEAD WOOD SCREW	SMS	SHEET METAL SCREW
FIN	FINISH	SN	SILL NAILING
FJ	FLOOR JOIST	SPEC	SPECIFICATIONS
FLR	FLOOR	S.P.C.	STANDARD PIPE COLUMN
FLG	FLANGE	SQ	SQUARE
FN	FIELD NAILING	SS	SELECT STRUCTURAL
FOB	FACE OF BLOCK	STD	STANDARD
FOC	FACE OF CONCRETE	STL	STEEL
F.O. PLY	FACE OF PLYWOOD	STRUCT	STRUCTURAL
FOS	FACE OF STUD	STS	SELF TAPPING SCREW
FS	FACE OF STUD	SVM	SYMMETRICAL
FT	FOOT OR FEET		
FTG	FOOTING	(T)	TOP
		TSG	TAPERED STEEL GIRDER
GA	GAUGE	TEMP	TEMPERATURE
GALV	GALVANIZED	THK	THICK
GB	GRADE BEAM	T&G	TONGUE AND GROOVE
GLB	GLUE-LAM BEAM	T&B	TOP AND BOTTOM
GR	GRADE	TN	TOE NAILING
GRTG	GRATING	TOB	TOP OF BLOCK
		TOC	TOP OF CONCRETE
HAS	HEADED ANCHOR STUD	TOP	TOP OF PARAPET
HOR	HORIZONTAL	T.O. PLY	TOP OF PLYWOOD
HP	HIGH POINT	T.O. SLAB	TOP OF SLAB
HS	HIGH STRENGTH	T.O. STL	TOP OF STEEL
HSS	HIGH STRENGTH BOLT	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
		VF	VERIFY IN FIELD
INT	INTERIOR	VERT	VERTICAL
JST	JOIST	VOL	VOLUME
JT	JOINT		
		WT	WEIGHT
KD	KILN DRIED	W/	WITH
		W/O	WITHOUT
LLH	LONG LEG HORIZONTAL	WP	WORKING POINT
LLV	LONG LEG VERTICAL	WD	WOOD
LLO	LONG LEG OUTSTANDING		
LOC'S	LOCATIONS		
LP	LOW POINT		
LSL	LAMINATED STRAND LUMBER		

REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION	SPECIAL INSPECTION		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		YES	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$ " c. INSPECT ALL OTHER WELDS.		YES	AWS D1.4 ACI 318: 26.6.4
3. INSPECT ANCHORS CAST IN CONCRETE		YES	ACI 318: 17.8.2
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.			ACI 318: 17.8.2.4 ACI 318: 17.8.2
5. VERIFY USE OF REQUIRED DESIGN MIX		YES	ACI 318: CH. 19, 26.4.3, 26.4.4
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		YES	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	YES		ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES			ACI 318: 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.			ACI 318: 26.10
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.			ACI 318: CH. 26.8
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.			ACI 318: 26.11.2
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.			ACI 318: 26.11.2(b)
13. SPECIAL INSPECTION OF CONCRETE PLACING IS NOT REQUIRED AT SECOND FLOOR DECK.		X	2019 CBC 1705.3.3 

REQUIRED VERIFICATION & INSPECTION OF STEEL CONSTRUCTION			
VERIFICATION AND INSPECTION	SPECIAL INSPECTION		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. C. TESTING OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.		YES	RCSC: 1.5, AISC 360: SECTION A3.3, J3.1, AND APPLICABLE ASTM MATERIAL STANDARDS RCSC: 1.5 & 2.1, AISC 360: A3.3 & N3.2 RCSC: 7.2, APPLICABLE ASTM MATERIAL STANDARDS
2. INSPECTION OF HIGH STRENGTH BOLTING: A. SNUG-TIGHT JOINTS B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION. C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.		YES	RCSC: 7-9, AISC 360: J3.1, J3.2, M2.5, & N5.6
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360. B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. C. MANUFACTURER'S CERTIFIED TEST REPORTS. D. TESTING OF UNIDENTIFIED STEEL.		YES	APPLICABLE ASTM MATERIAL STANDARDS APPLICABLE ASTM MATERIAL STANDARDS AISC 360: A3.1 & N3.2 AISC 360: A3.1 & N3.2
4. MATERIAL VERIFICATION OF WELDING CONSUMABLES AND TESTING OF WELDED ELEMENTS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. C. NONDESTRUCTIVE TESTING OF WELDED JOINTS.		YES	AISC 360, SECTION A3.5, N3.2, AND APPLICABLE AWS 5 DOCUMENTS AISC 360: N3.2 AISC 360: N5.5
5. INSPECTION OF WELDING: A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: 1) COMPLETE AND PARTIAL PENETRATION GROOVE WELD. 2) MULTIPASS FILLET WELDS. 3) SINGLE PASS FILLET WELDS > 5/16" 4) PLUG AND SLOT WELDS. 5) SINGLE PASS FILLET WELDS ≤ 5/16" 6) FLOOR AND ROOF DECK WELDS. 7) END-WELDED STUDS. 8) WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS. B. REINFORCING STEEL: 1) VERIFICATION OF WELDABLE OF REINFORCING STEEL OTHER THAN ASTM A 706 2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT 3) SHEAR REINFORCEMENT 4) OTHER REINFORCING STEEL 5) TESTS OF REINFORCING BARS 6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE: A. DETAILS SUCH AS BRACING AND STIFFENING B. MEMBER LOCATIONS C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		YES	AISC 360: J2, M2.4, & M4.5, AWS D1.1, AWS D1.8 AWS D1.1 AWS D1.3 AISC 360: N5.8

AGENCY APPROVAL

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by:  07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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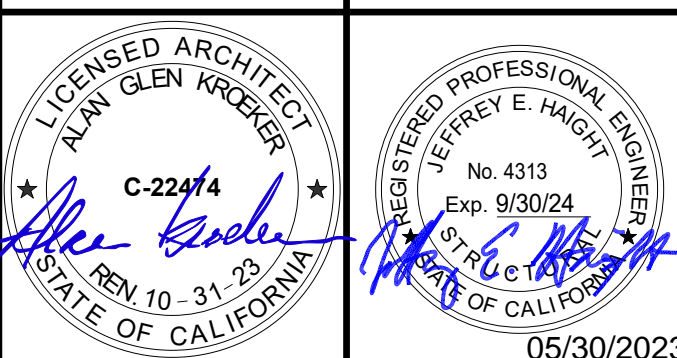
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ARCHITECT STAMP

CONSULTANT STAMP



REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

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PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
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1 Grand Avenue
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1499 San Luis Drive
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SHEET TITLE

SPECIAL INSPECTIONS

DRAWN BY: JHR JOB NUMBER: 21179.01

SHEET NO.

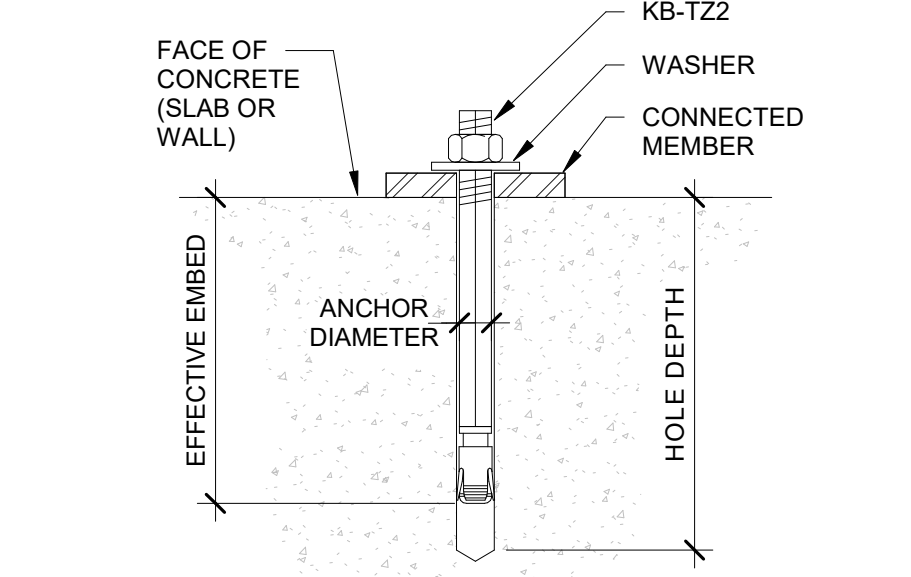
S-102

DATE: APRIL 20, 2023

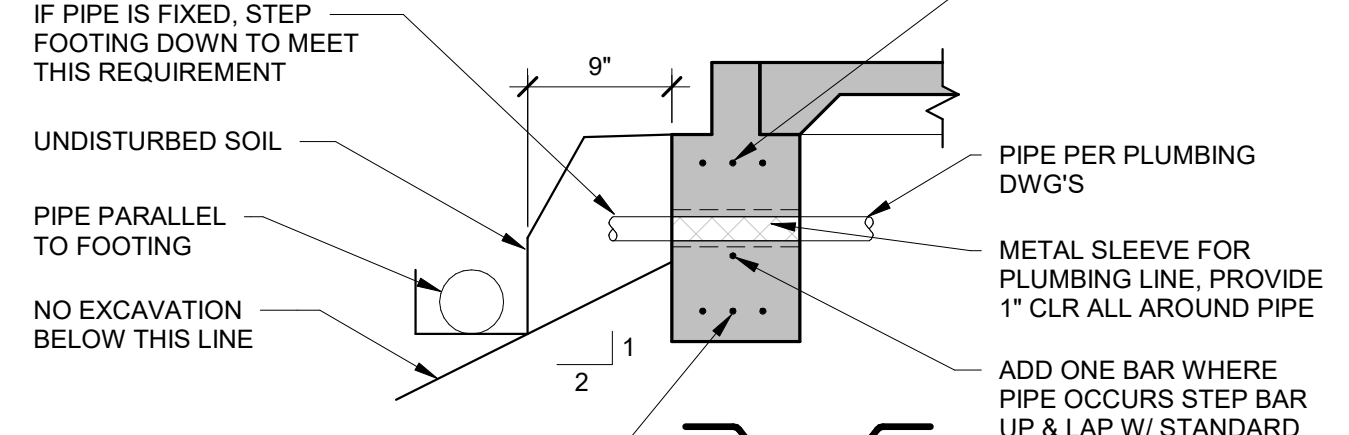
CONSTRUCTION DOCUMENTS

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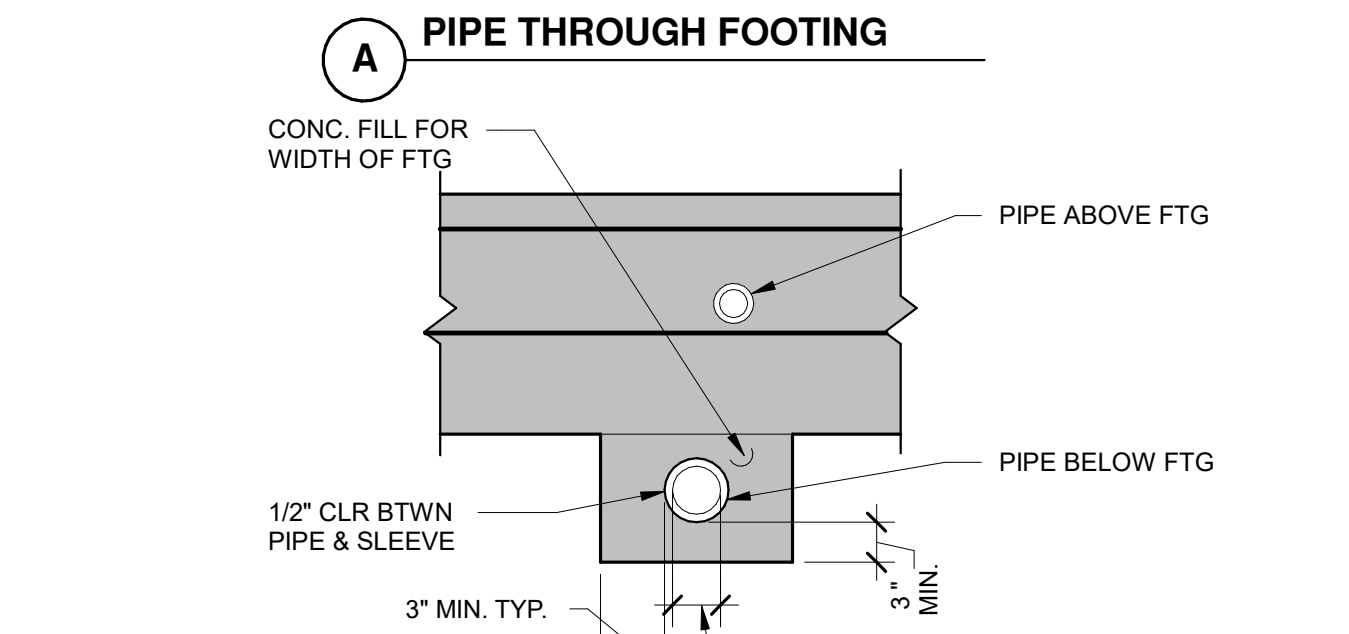
KB-T2Z ANCHOR IN CONCRETE					
ANCHOR DIAMETER	DRILL BIT DIAMETER	EFFECTIVE EMBED	HOLE DEPTH	C.S. INSTALL TORQUE	S.S. INSTALL TORQUE
1/4"	1/4"	1 1/2"	1 3/4"	4 FT-LBS	6 FT-LBS
3/8"	3/8"	2"	3 1/4"	30 FT-LBS	30 FT-LBS
1/2"	1/2"	3 1/4"	4 1/4"	50 FT-LBS	40 FT-LBS
5/8"	5/8"	4"	4 3/4"	40 FT-LBS	60 FT-LBS
3/4"	3/4"	4 3/4"	5 3/4"	110 FT-LBS	125 FT-LBS
1"	1"	5 3/4"	6 3/4"	185 FT-LBS	185 FT-LBS



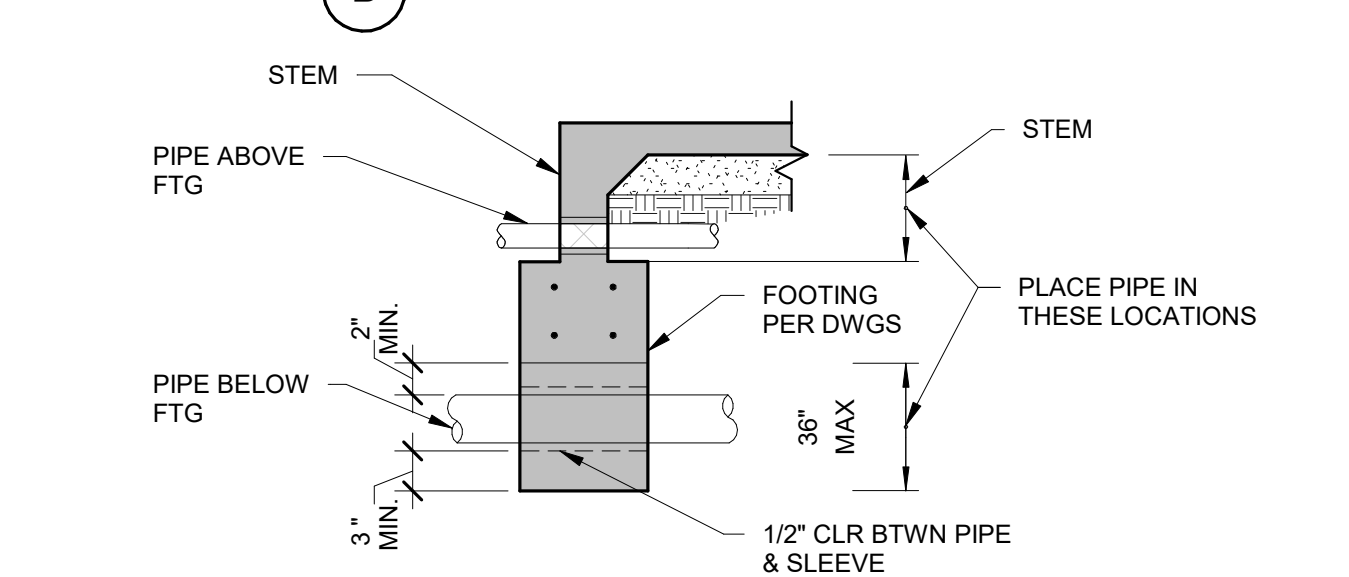
- NOTES:**
- SPECIAL INSPECTION REQUIRED, PER ICC ESR-4266 SECTION 4.4 AND CBC SECTION 1704A.2.
 - INSTALL ANCHORS IN CONCRETE IN ACCORDANCE WITH ICC REPORT ESR-4266 SECTION 5.0, CONDITIONS OF USE, AND MANUFACTURER'S INSTRUCTIONS.
 - TORQUE TEST 50% OF ANCHORS. IF ANY ANCHOR FAILS TESTING, IT SHALL BE RE-PLACED AND RE-TESTED AND 100% OF THE ANCHORS OF THE SAME CATEGORY INSTALLED BY THE SAME CREW FOR THE APPLICATION, SHALL BE TESTED UNTIL ALL ANCHORS PASS THE TEST REQUIREMENTS AND THEN RESUME INITIAL TESTING.
 - PER ESR-4266, CARBON STEEL (C.S.) ANCHORS ARE TO BE USED IN INTERIOR, DRY LOCATIONS ONLY. USE STAINLESS STEEL (S.S.) ANCHORS FOR EXTERIOR AND ALL OTHER LOCATIONS.
 - THE ACCEPTANCE CRITERIA FOR THE TESTING OF POST INSTALLED ANCHORS PER 2019 CBC SECTION 1910A.5 SHALL BE PERMITTED TO BE TESTED USING TORQUE, WHERE TEST TORQUE = INSTALLATION TORQUE. THE NUT MUST BE TIGHTENED AGAINST THE WASHER UNTIL THE TORQUE VALUES SPECIFIED IN THE TABLE ABOVE ARE ACHIEVED. TESTING SHALL BE DONE BY OWNER'S INDEPENDENT APPROVED AGENCY.
 - (N) ANCHORS SHALL BE A MINIMUM 1-1/2" FROM (E) ABANDONED ANCHORS.
 - EDGE DISTANCE SHALL BE 12" MINIMUM, UNLESS SHOWN OTHERWISE IN ANCHORAGE DETAILS.



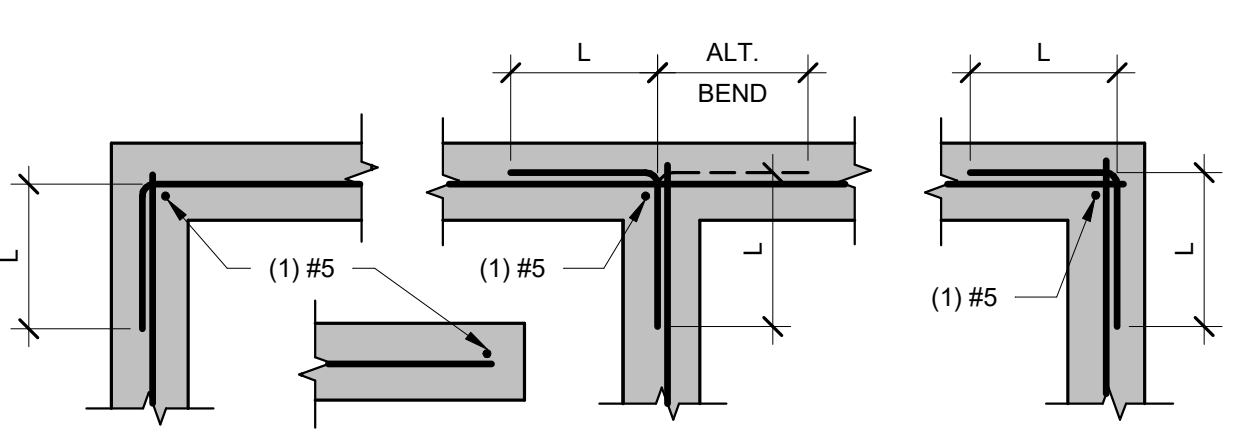
(A) PIPE THROUGH FOOTING



(B) PIPE UNDER OR OVER FOOTING

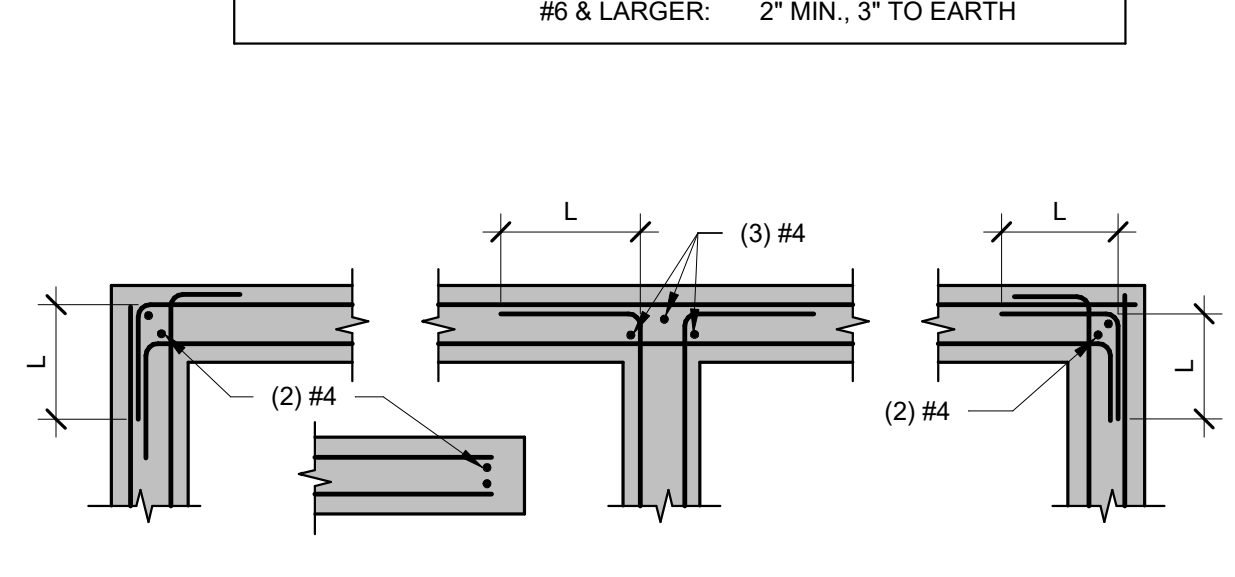


(C) PIPE UNDER OR OVER FOOTING

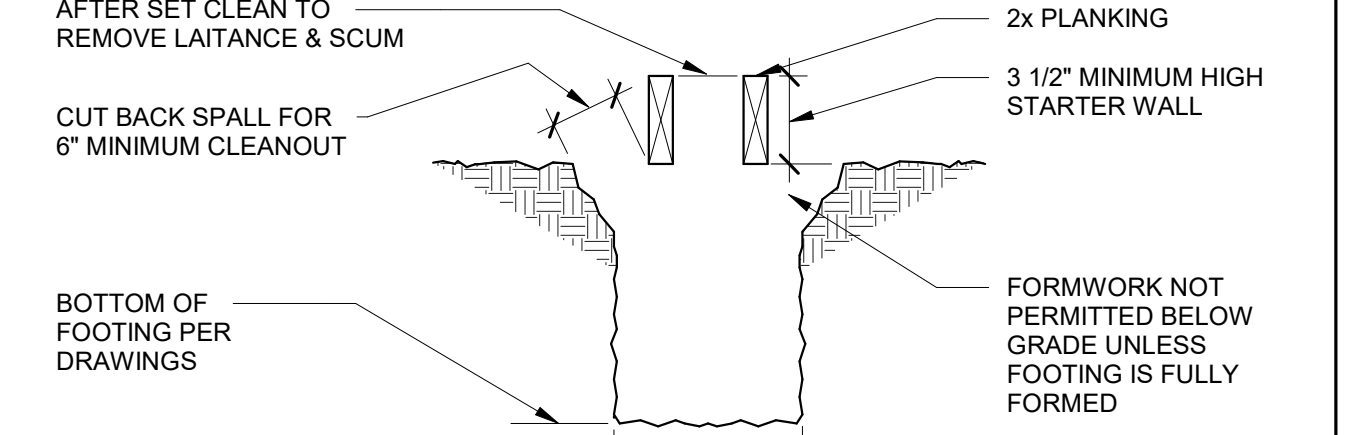


(A) SINGLE LAYER OF REINFORCEMENT

- NOTES:**
- ALL HORIZONTAL BARS IN FOOTINGS, WALLS, GRADE BEAMS & BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS & INTERSECTIONS.
 - TYPICAL COVER: #3, #4, #5 BARS: 1 1/2" MIN., 3" TO EARTH #6 & LARGER: 2" MIN., 3" TO EARTH

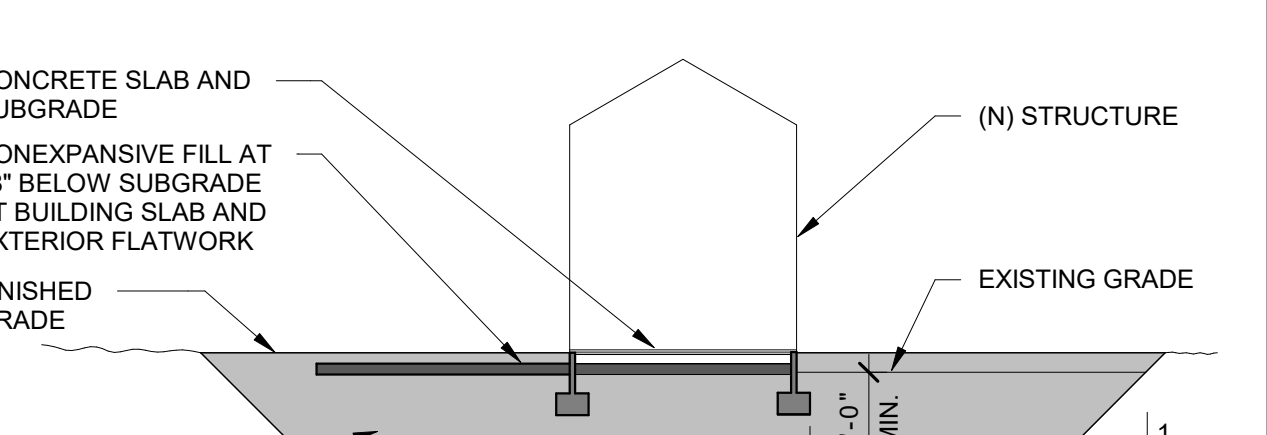


(B) DOUBLE LAYER OF REINFORCEMENT



FORMWORK

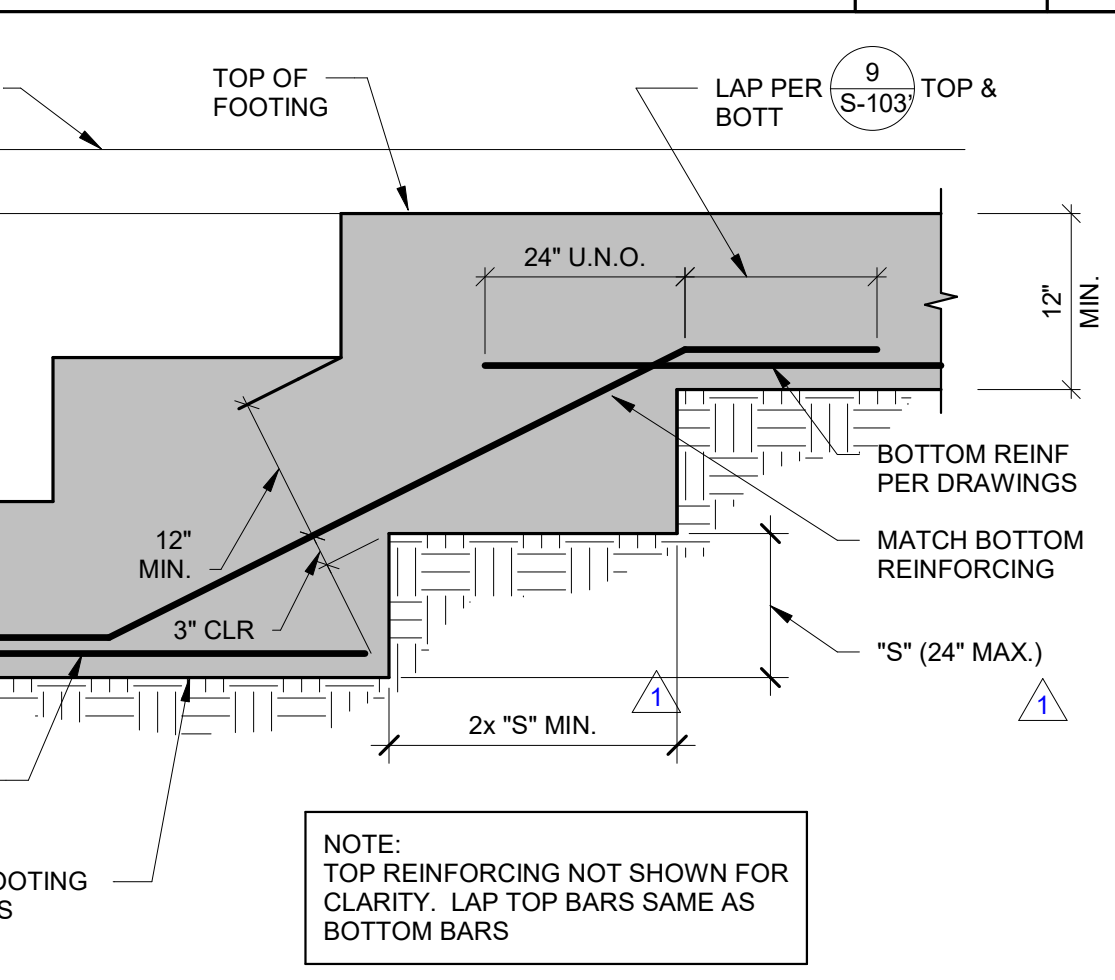
- NOTES:**
- 3 1/2" MINIMUM STARTER WALL REQUIRED FOR FOOTINGS.
 - FORMWORK SPECIFICATIONS APPLICABLE.
 - FOOTINGS MAY BE POURED IN OPEN TRENCHES IN LIEU OF FORMED FOUNDATIONS WHEN SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
 - STAKES ARE NOT PERMITTED WITHIN FOOTING SECTION.



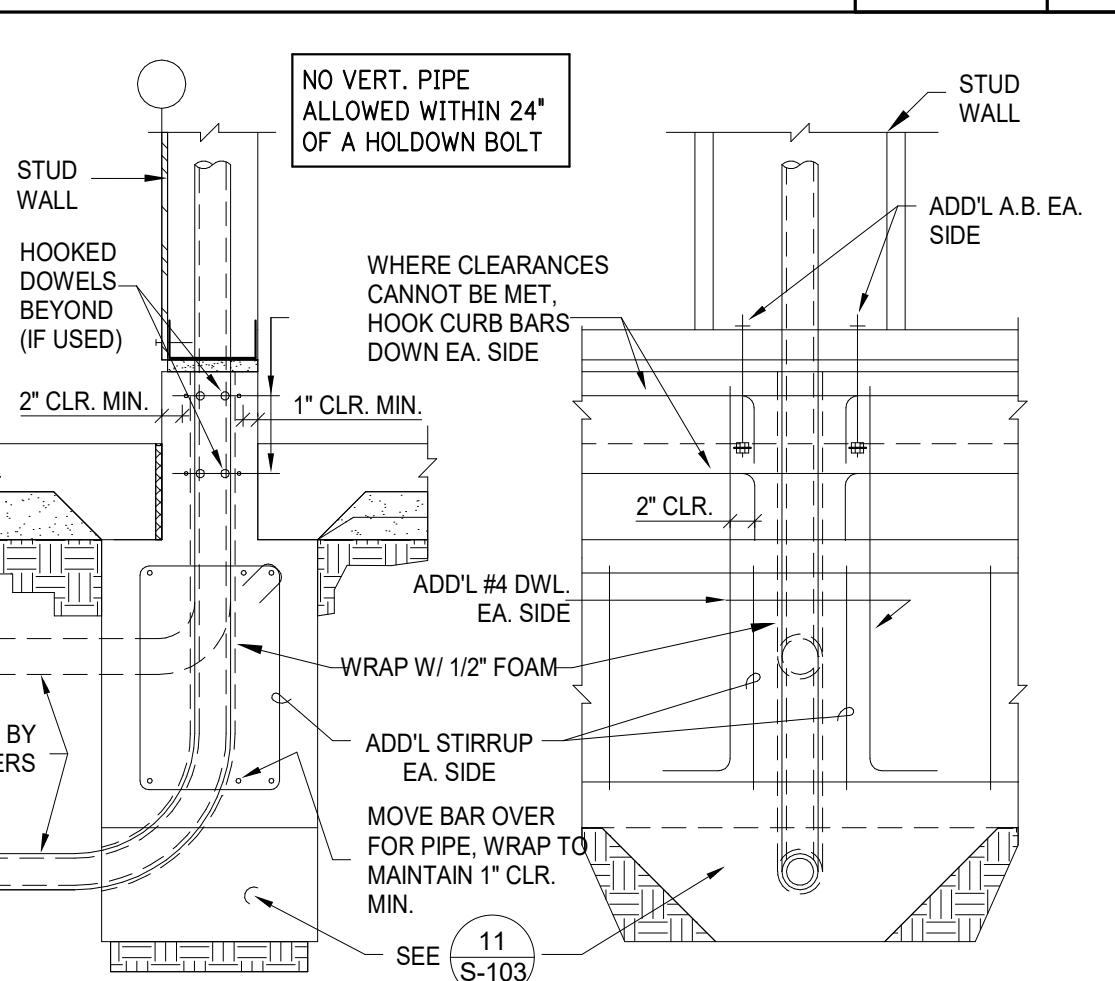
OVEREXCAVATION

- NOTE:** SEE FOUNDATION NOTES FOR ADDITIONAL REQUIREMENTS.

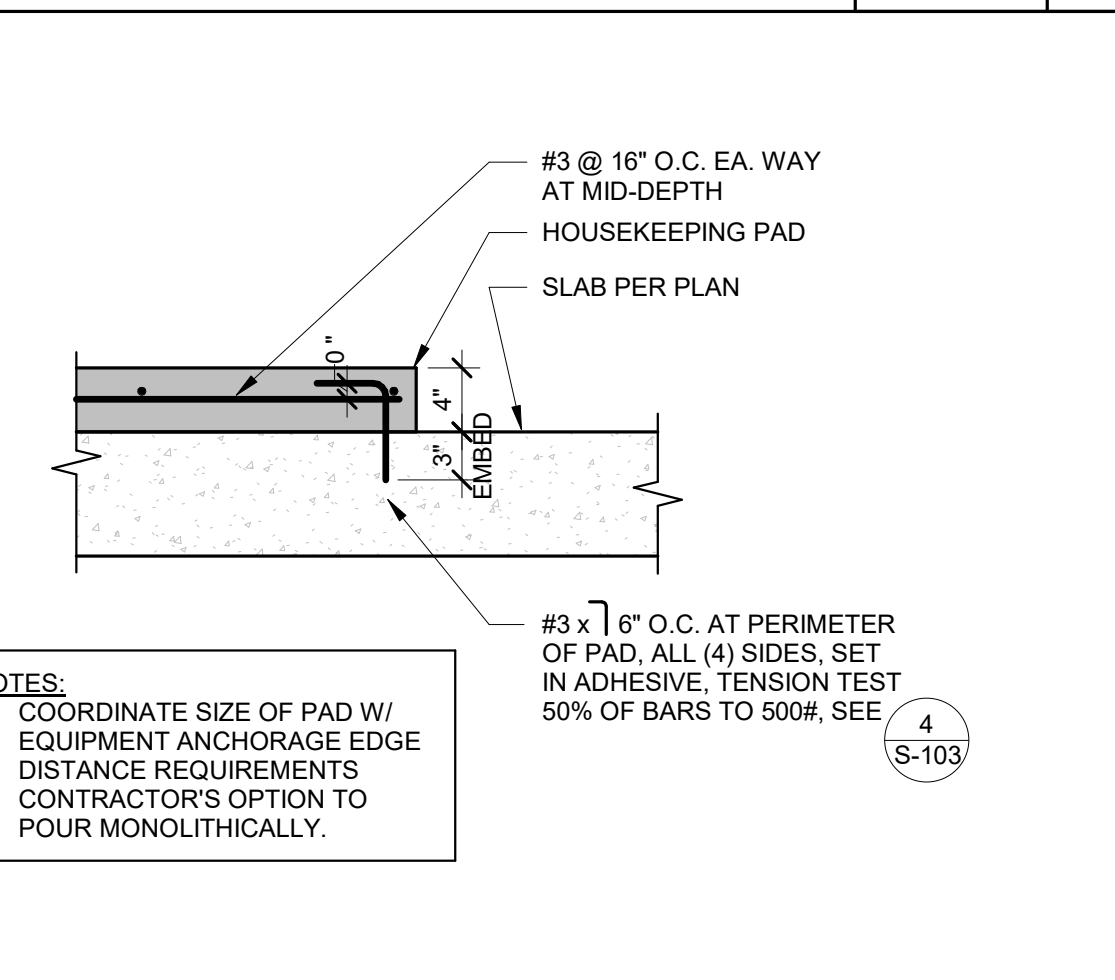
KB-T2Z INTO CONCRETE



FOOTING STEP

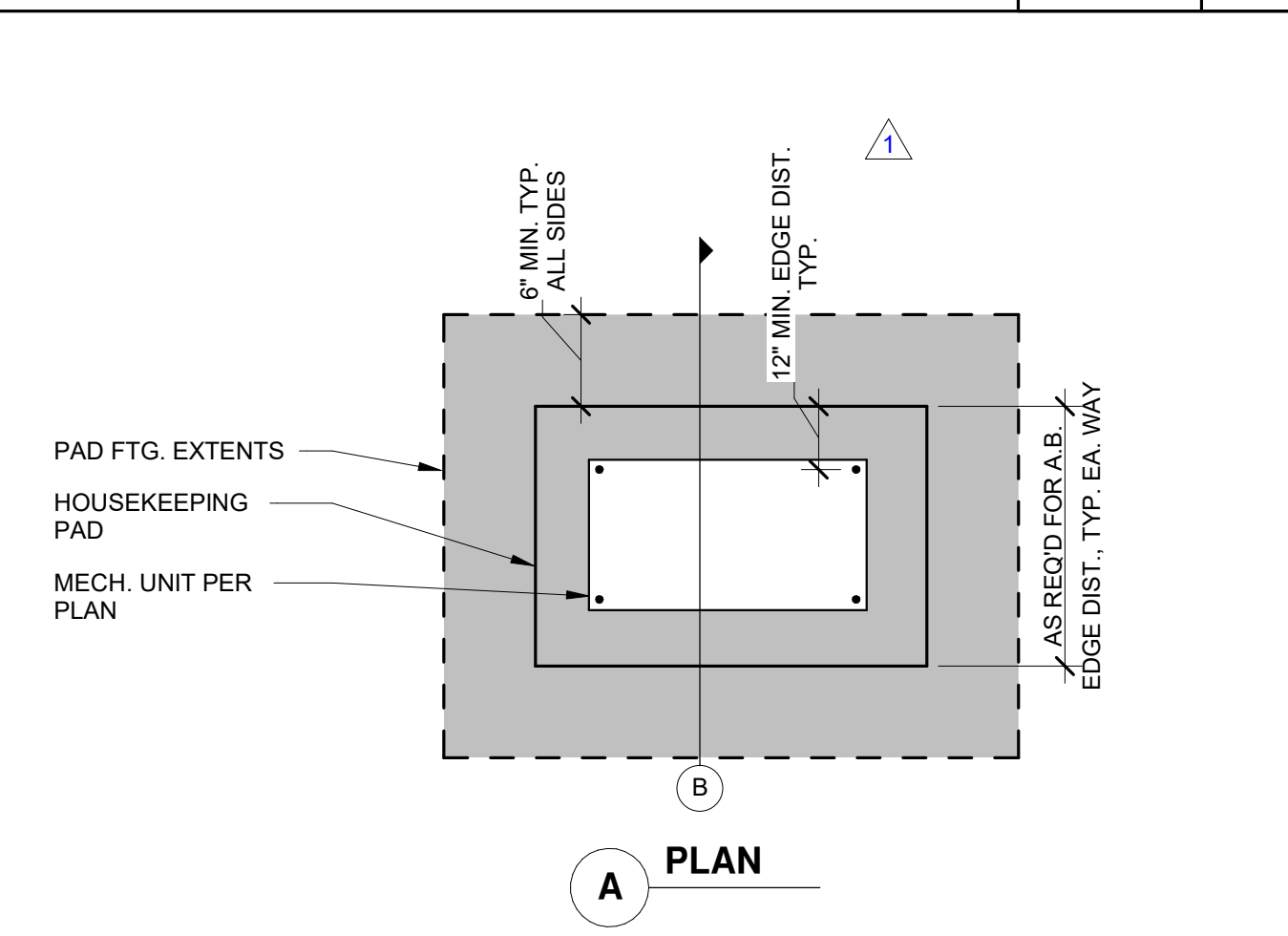


PIPE THROUGH CURB

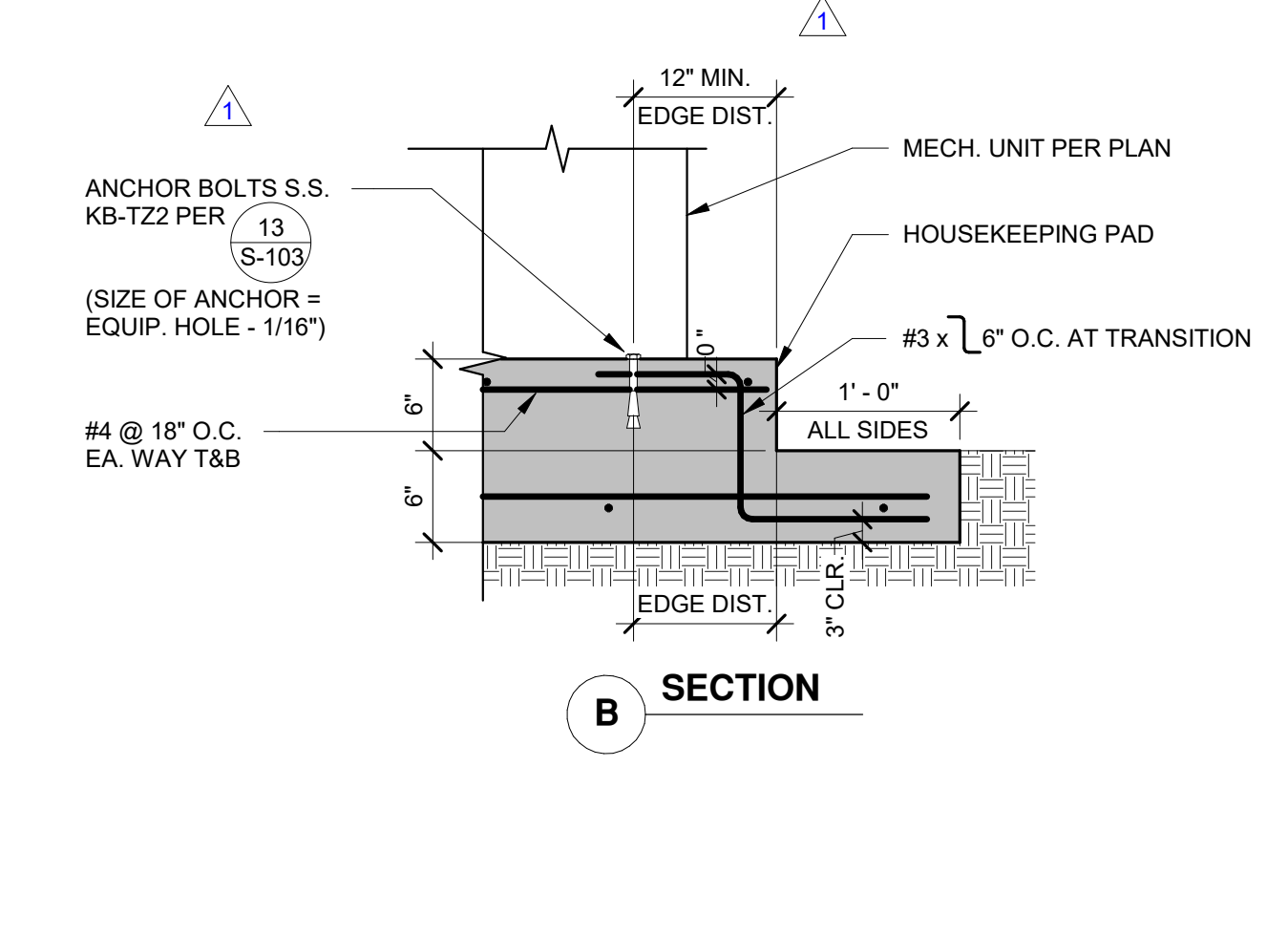


INTERIOR HOUSEKEEPING PAD

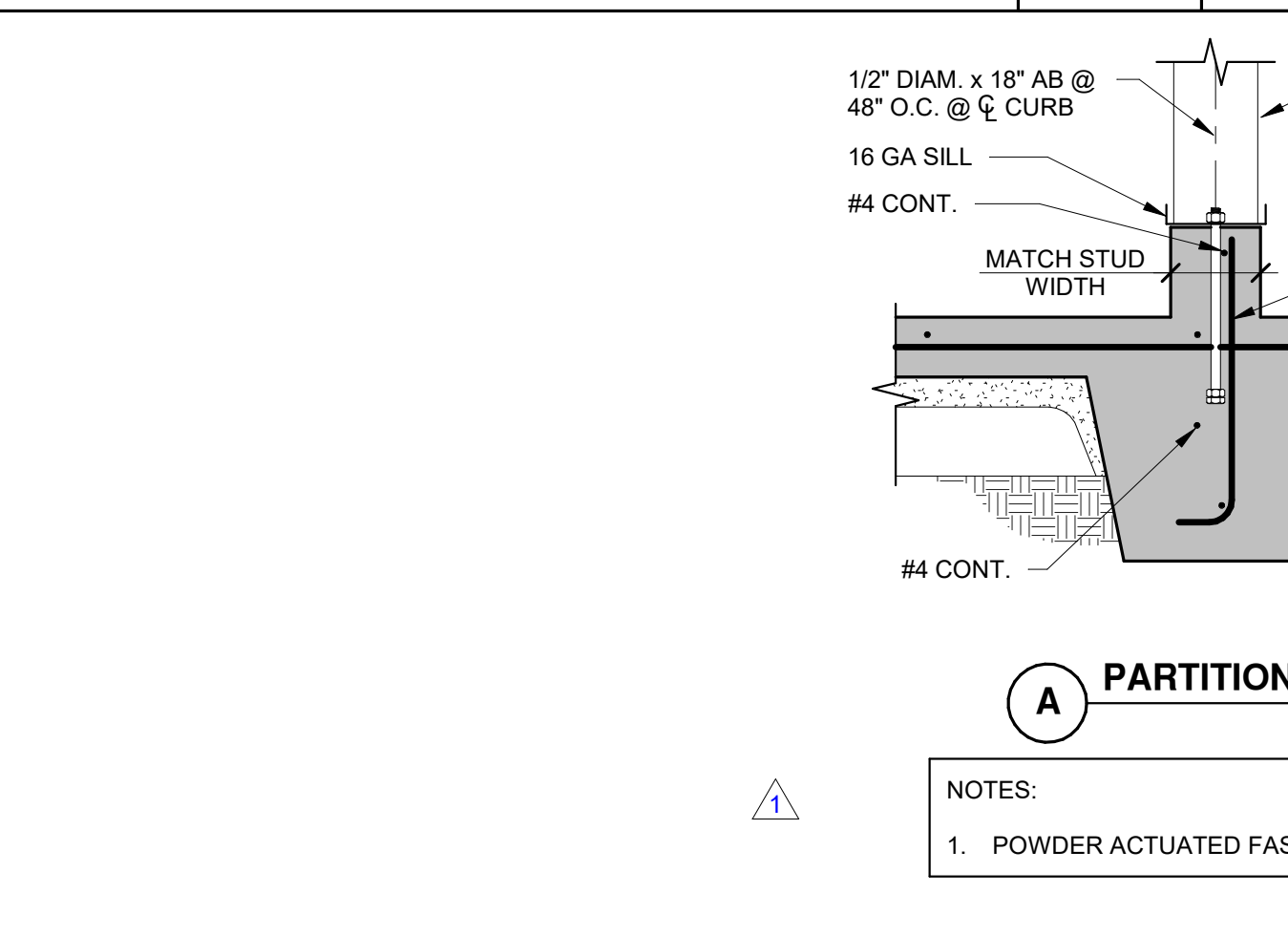
PIPE SLEEVE TRENCH



EXTERIOR EQUIPMENT PAD



CONCRETE LAP SCHEDULES



SLAB AT INTERIOR PARTITIONS

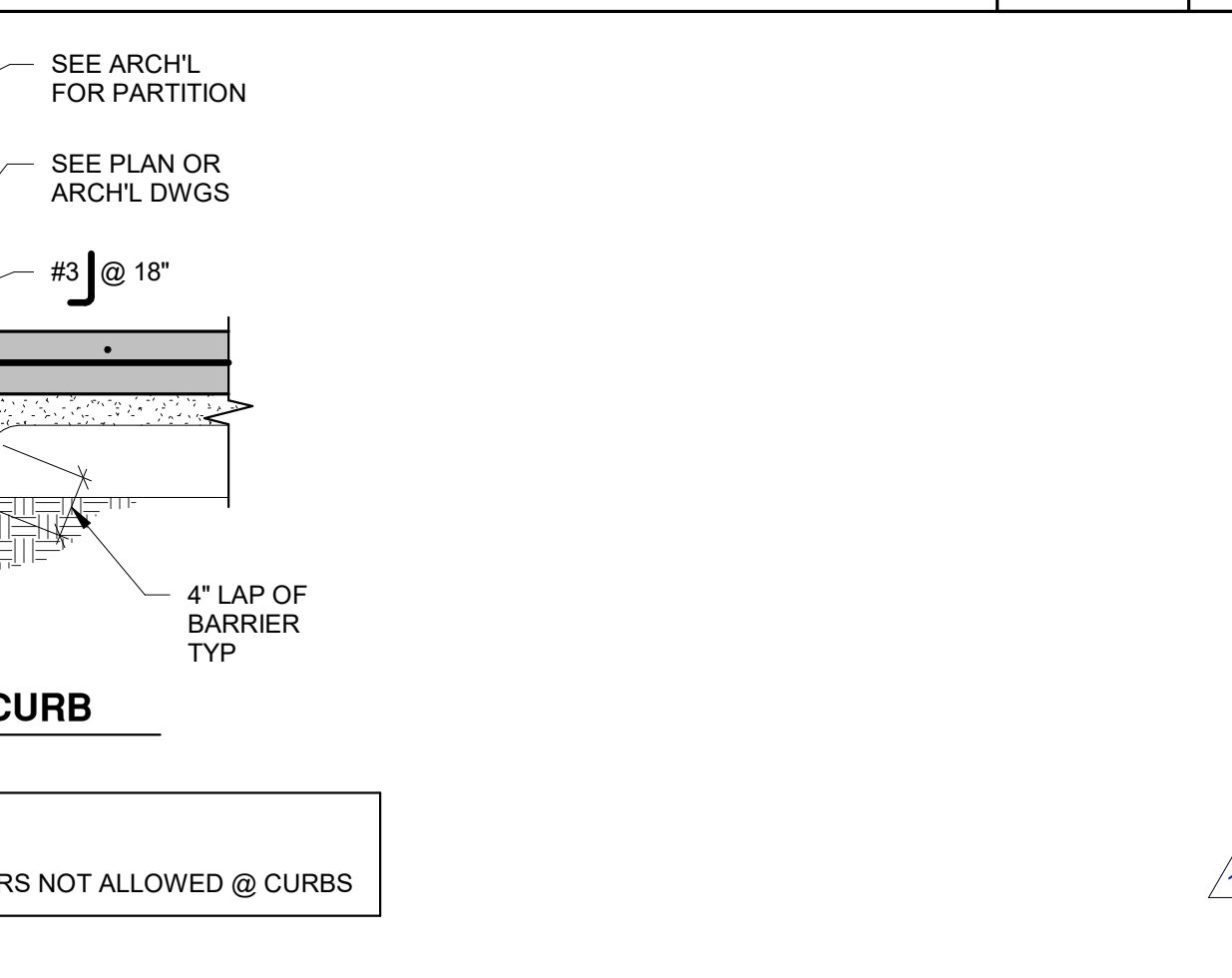
FOOTING & WALL CORNER REINF.

REINFORCING BAR LAP SCHEDULE		
$f_c = 3000 \text{ psi}$ $f_y = 60 \text{ ksi}$		
BAR SIZE	TOP BARS	OTHER BARS
#3	28"	22"
#4	38"	30"
#5	48"	36"
#6	56"	44"
#7	82"	64"
#8	94"	72"
#9	106"	82"
#10	116"	90"
#11	128"	98"

REINFORCING BAR LAP SCHEDULE

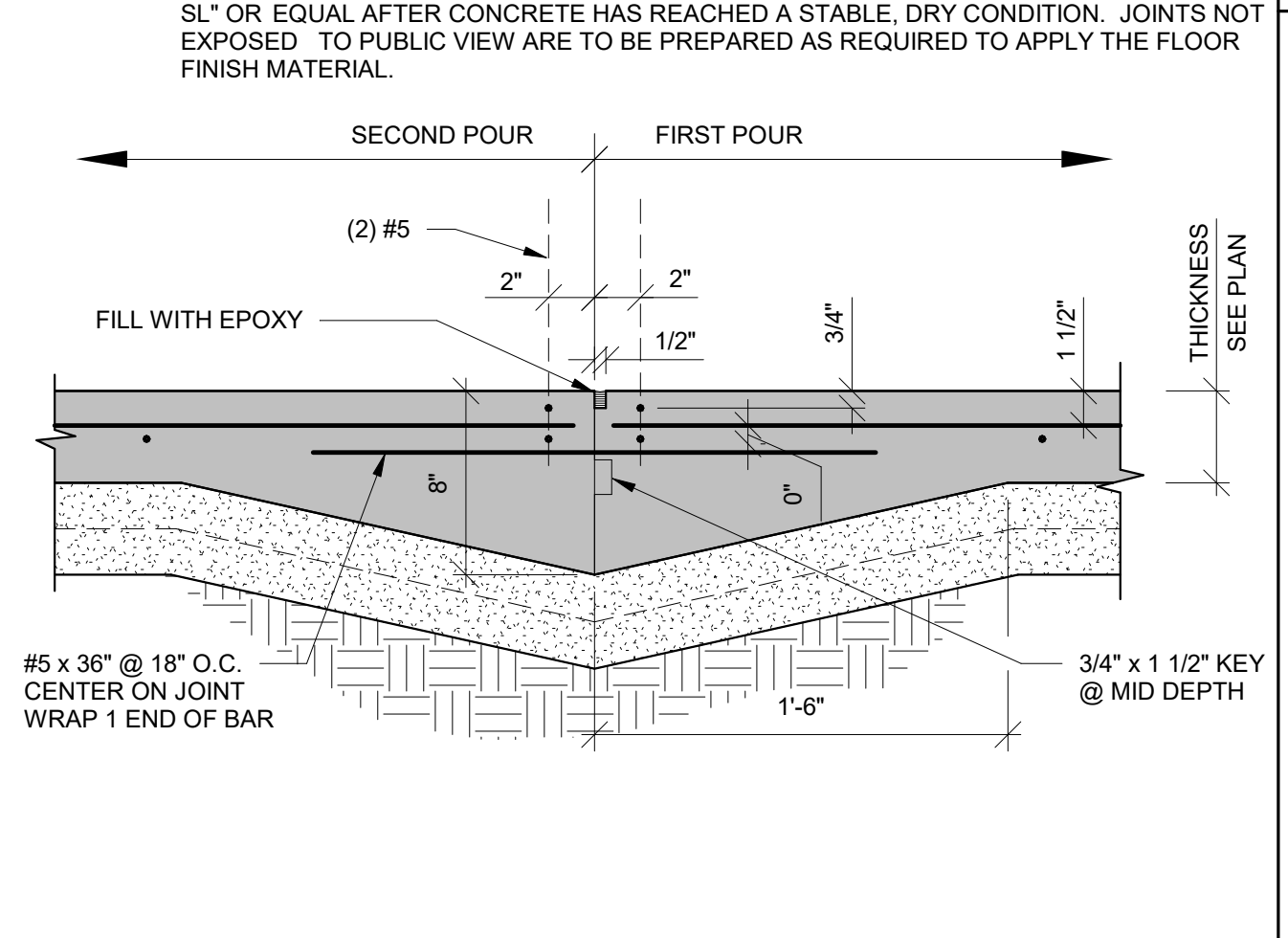
REINFORCING BAR LAP SCHEDULE		
$f_c = 4000 \text{ psi}$ $f_y = 60 \text{ ksi}$		
BAR SIZE	TOP BARS	OTHER BARS
#3	24"	20"
#4	32"	26"
#5	40"	32"
#6	48"	38"
#7	70"	54"
#8	80"	62"
#9	92"	70"
#10	102"	80"
#11	114"	88"

STANDARD REINFORCING HOOKS



STANDARD REINFORCEMENT HOOKS

CJ FOR SLAB-ON-GRADE



ADHESIVE THAT MAY BE USED ON THIS PROJECT

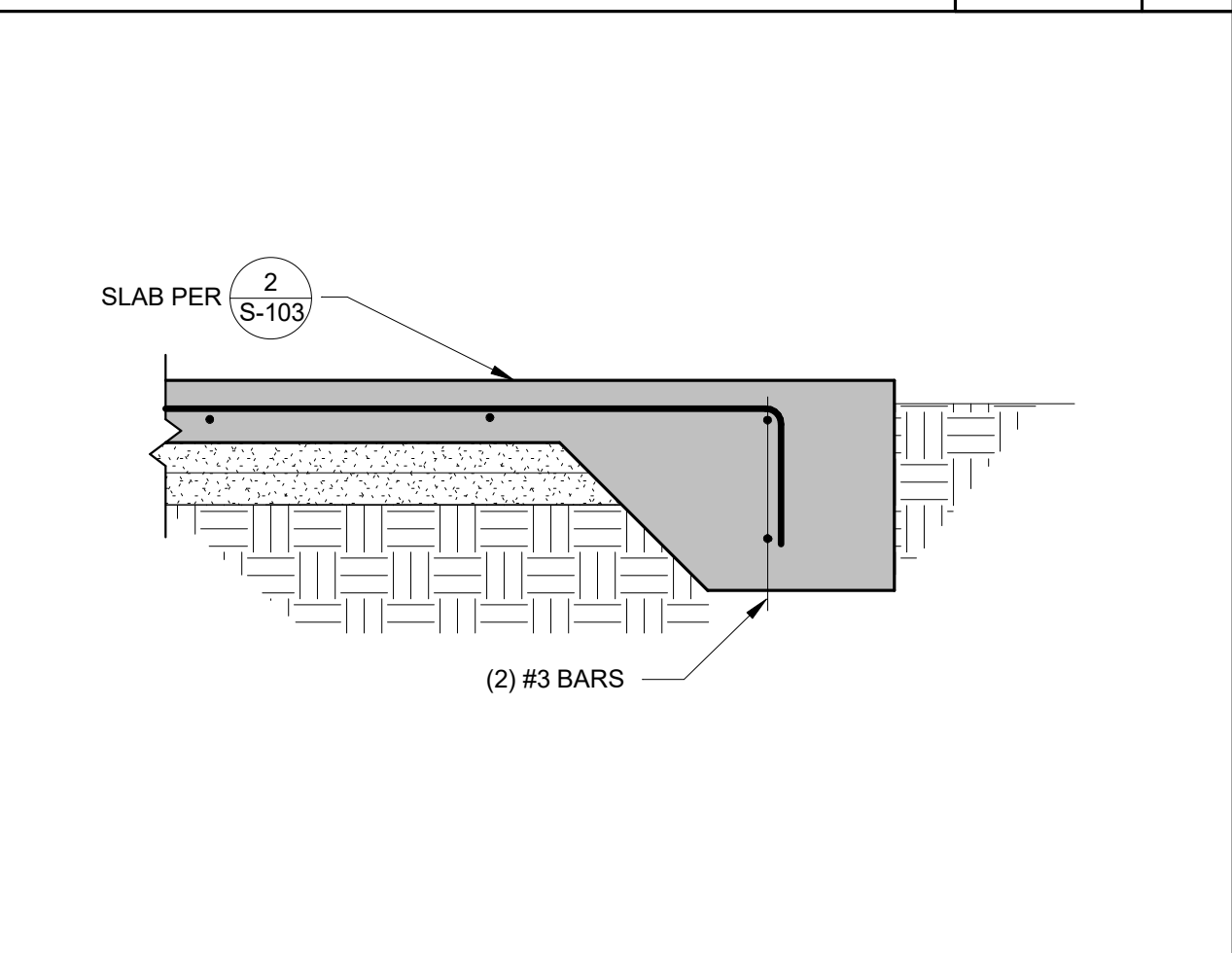
MATERIAL	MANUFACTURER	PRODUCT	ICC ESR REPORT	NOTES
CONCRETE	HILTI	HIT-RE 500 V3	3814	
CONCRETE	SIMPSON STRONG TIE	SET-XP	2508	
CONCRETE	DEWALT/POWERS	PURE110	3298	SLOW CURE
CONCRETE	DEWALT/POWERS	AC100+ GOLD	2582	FAST CURE

ANCHORS SET IN ADHESIVE

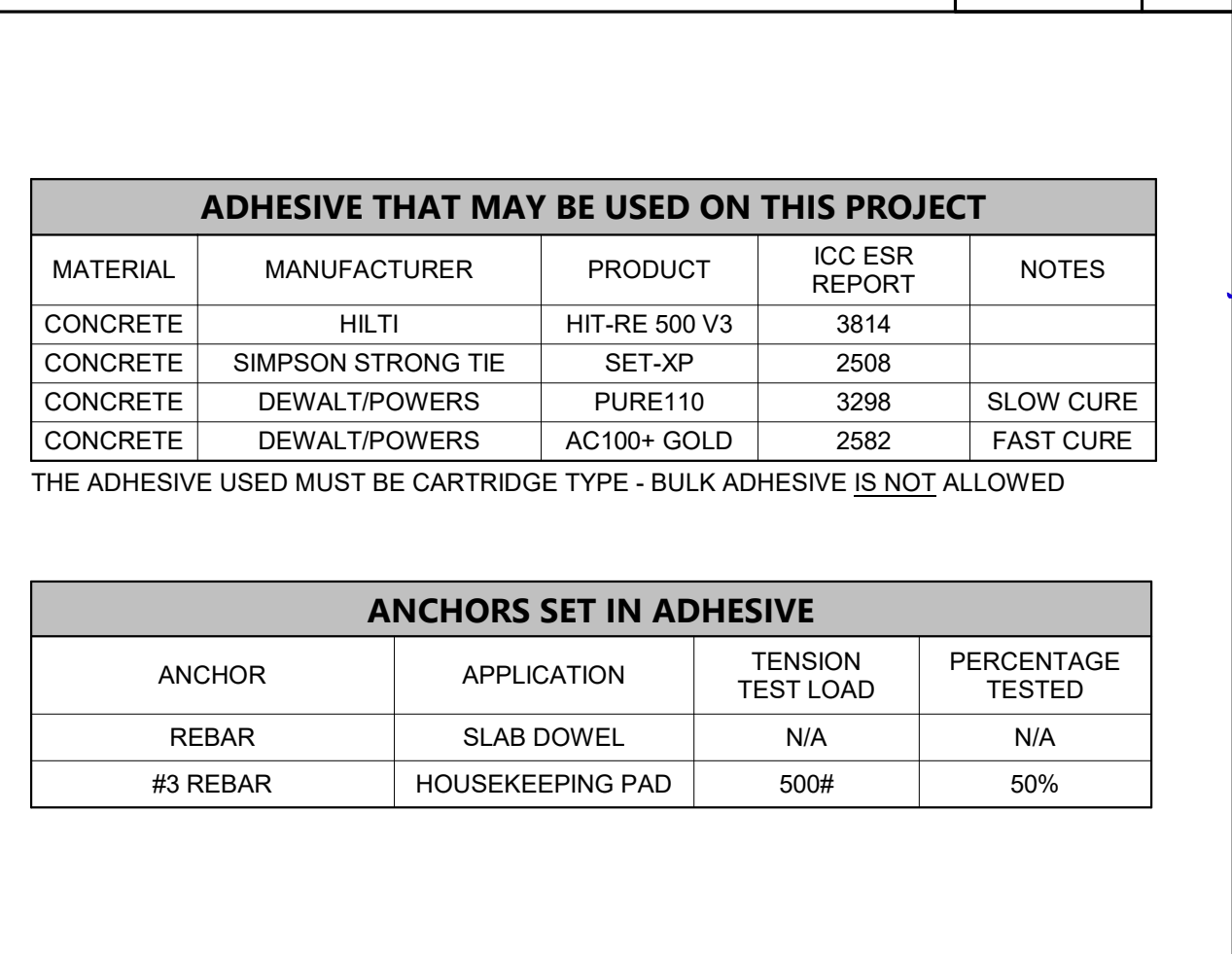
ANCHOR	APPLICATION	TENSION TEST LOAD	PERCENTAGE TESTED
REBAR	SLAB DOWEL	N/A	N/A
#3 REBAR	HOUSEKEEPING PAD	500#	50%

ADHESIVE ANCHORS

SLAB ON GRADE



SLAB EDGE



ADHESIVE SET IN ADHESIVE

- NOTES:**
- THIS DETAIL MAY NOT BE USED FOR NEW CONSTRUCTION OR REVISIONS UNLESS APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
 - HOLE SIZE VARIES BETWEEN MANUFACTURERS. VERIFY HOLE SIZE.
 - SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. INSPECT DEPTH AND CLEANLINESS PRIOR TO ADHESIVE INSTALLATION.
 - ADHESIVE SHALL CURE A MINIMUM OF 24 HOURS BEFORE TESTING.

ADHESIVE ANCHORS

AGENCY APPROVAL

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

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Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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ARCHITECT STAMP

CONSULTANT STAMP

[Signatures]

05/30/2023

REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
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CAL POLY TECH
PARK - PHASE 2
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SHEET TITLE

TYPICAL CONCRETE DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

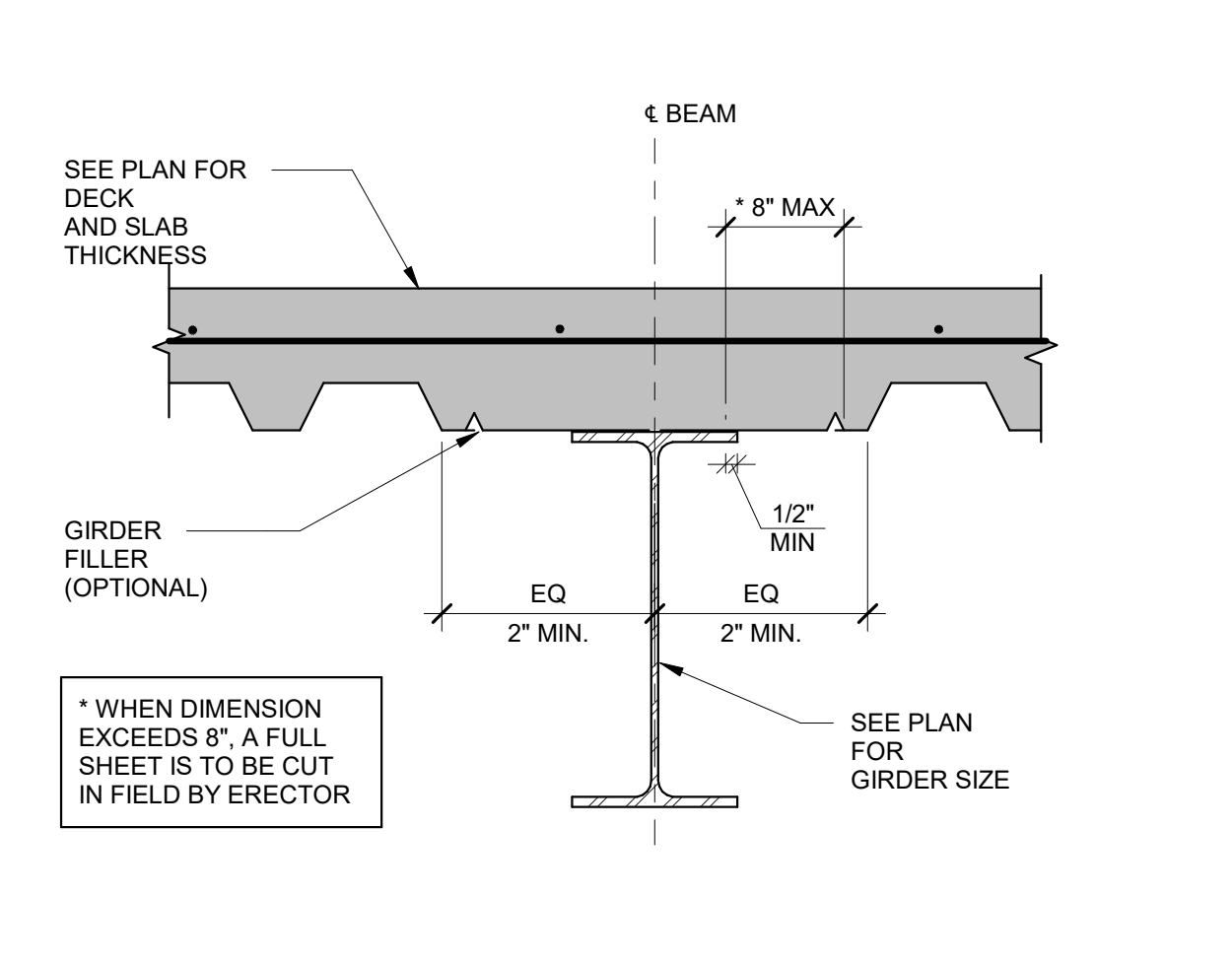
SHEET NO.

S-103

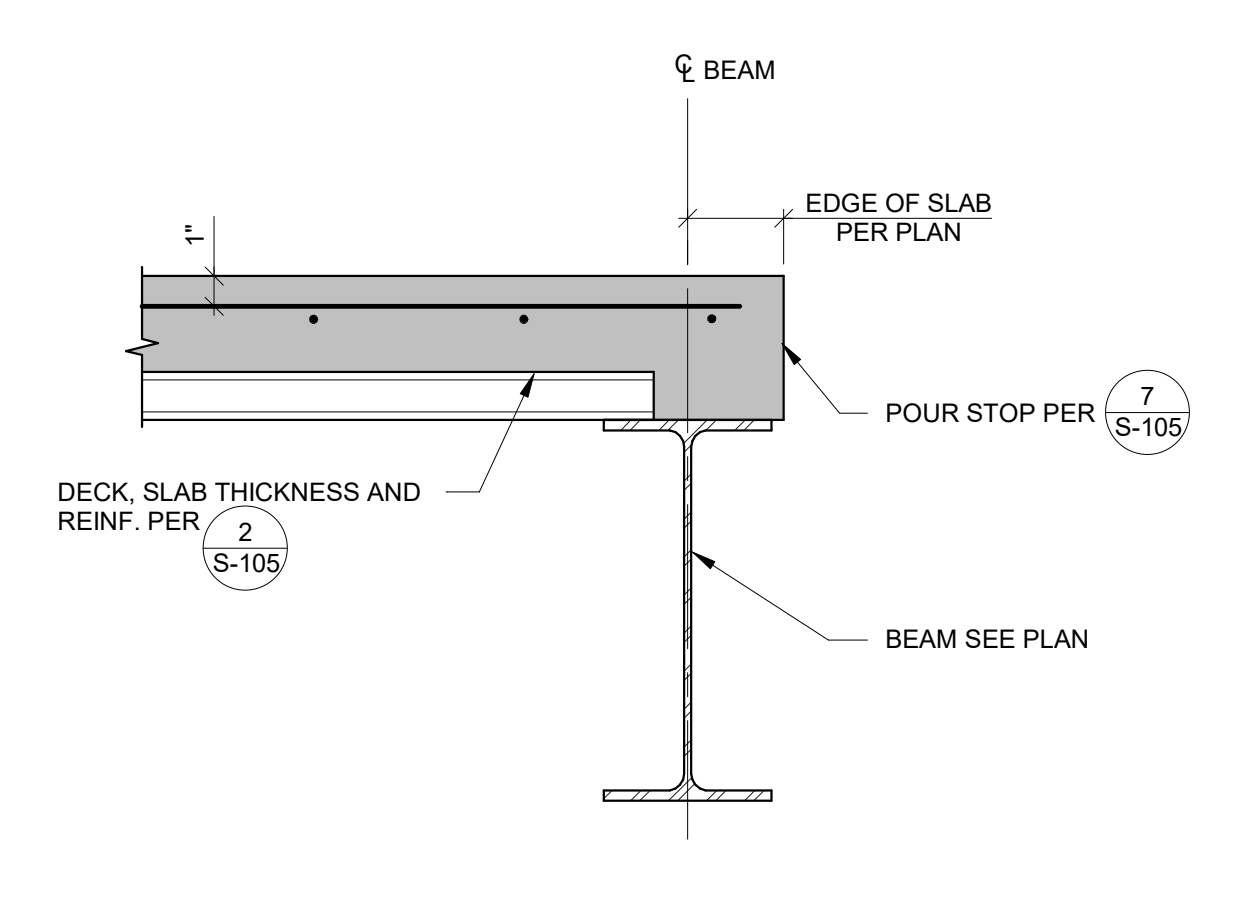
DATE: APRIL 20, 2023

CONSTRUCTION DOCUMENTS

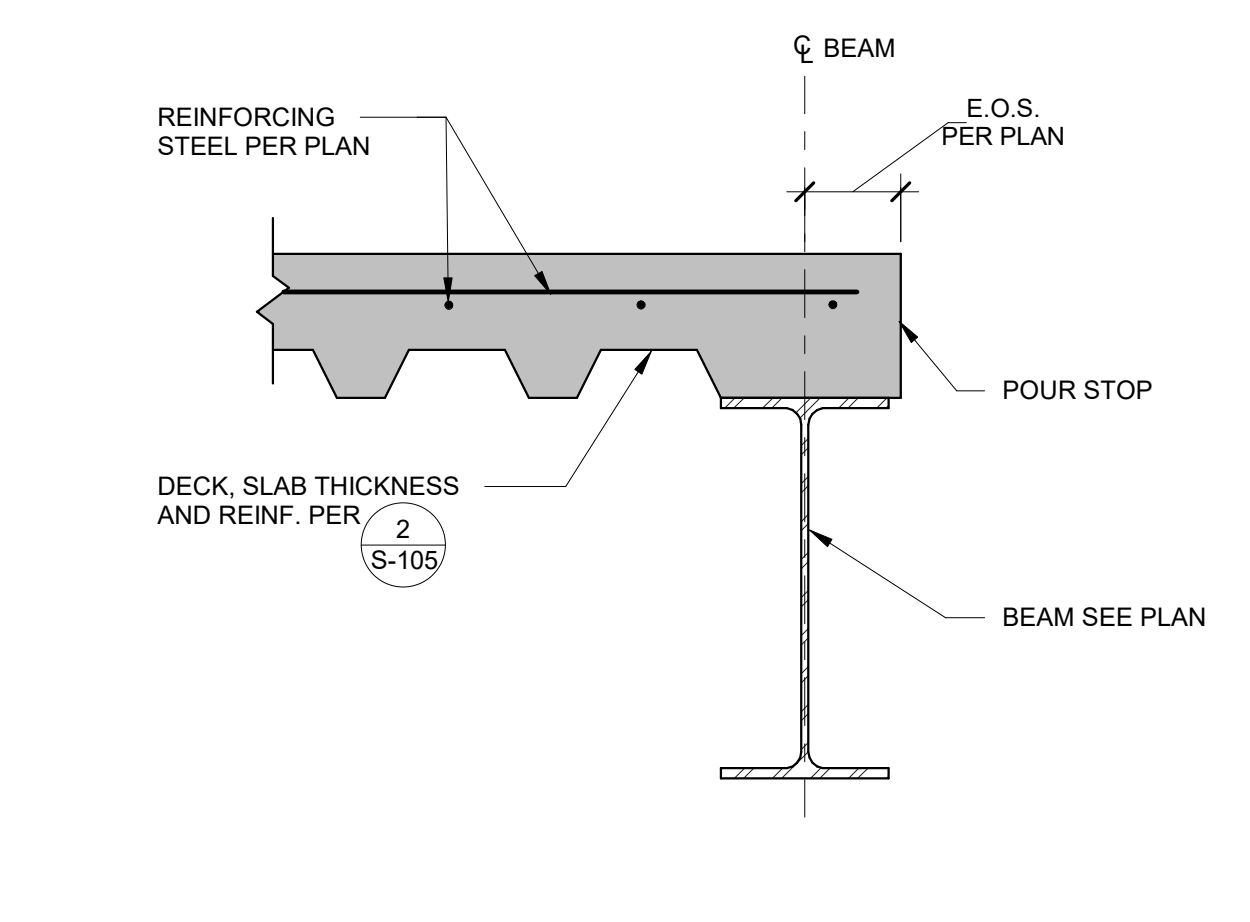
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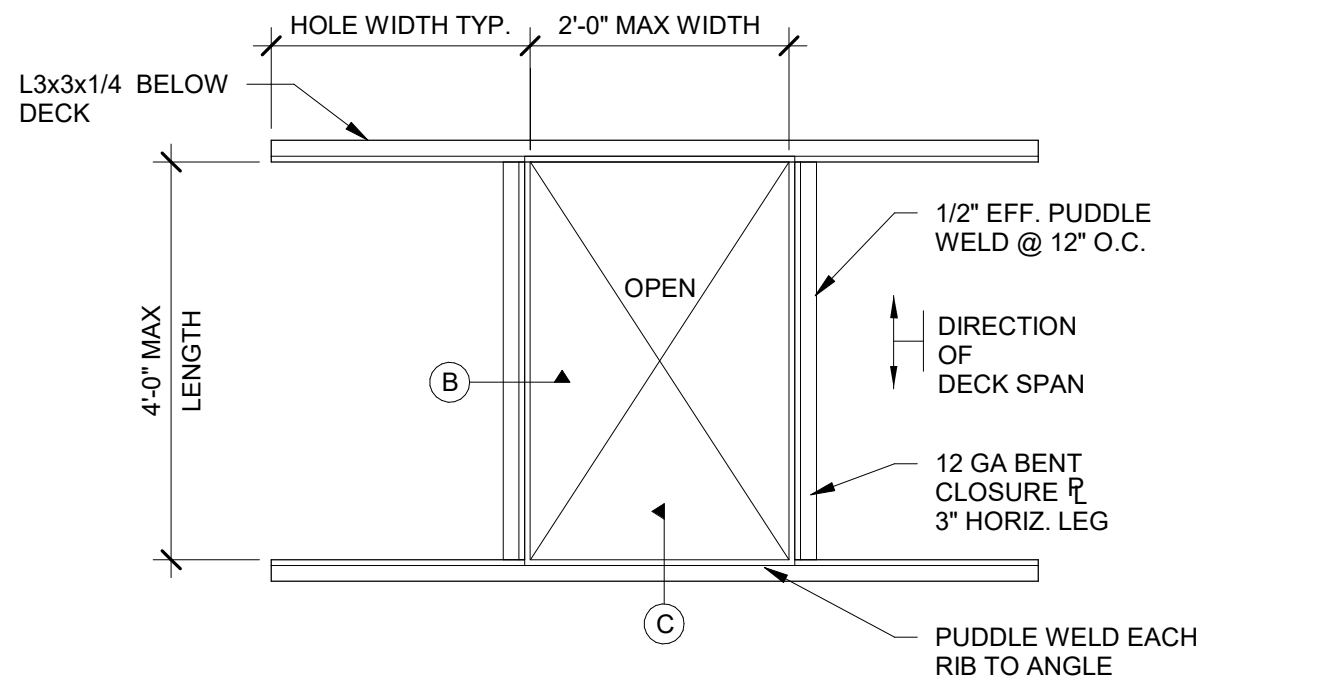
COMP DECK PARALLEL TO BEAM N.T.S. **8**



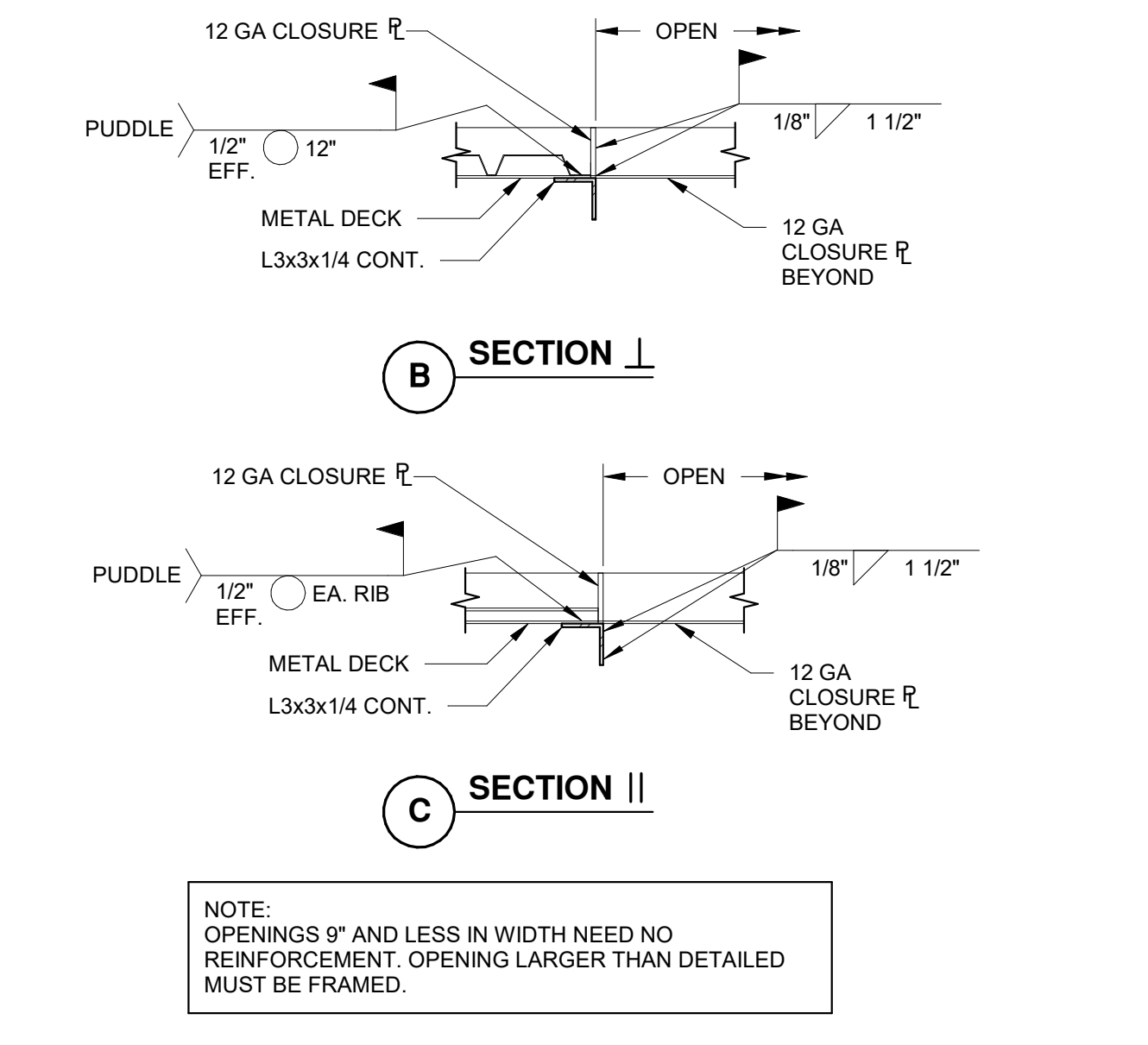
COMPOSITE DECK AT EDGE BEAM N.T.S. **9**



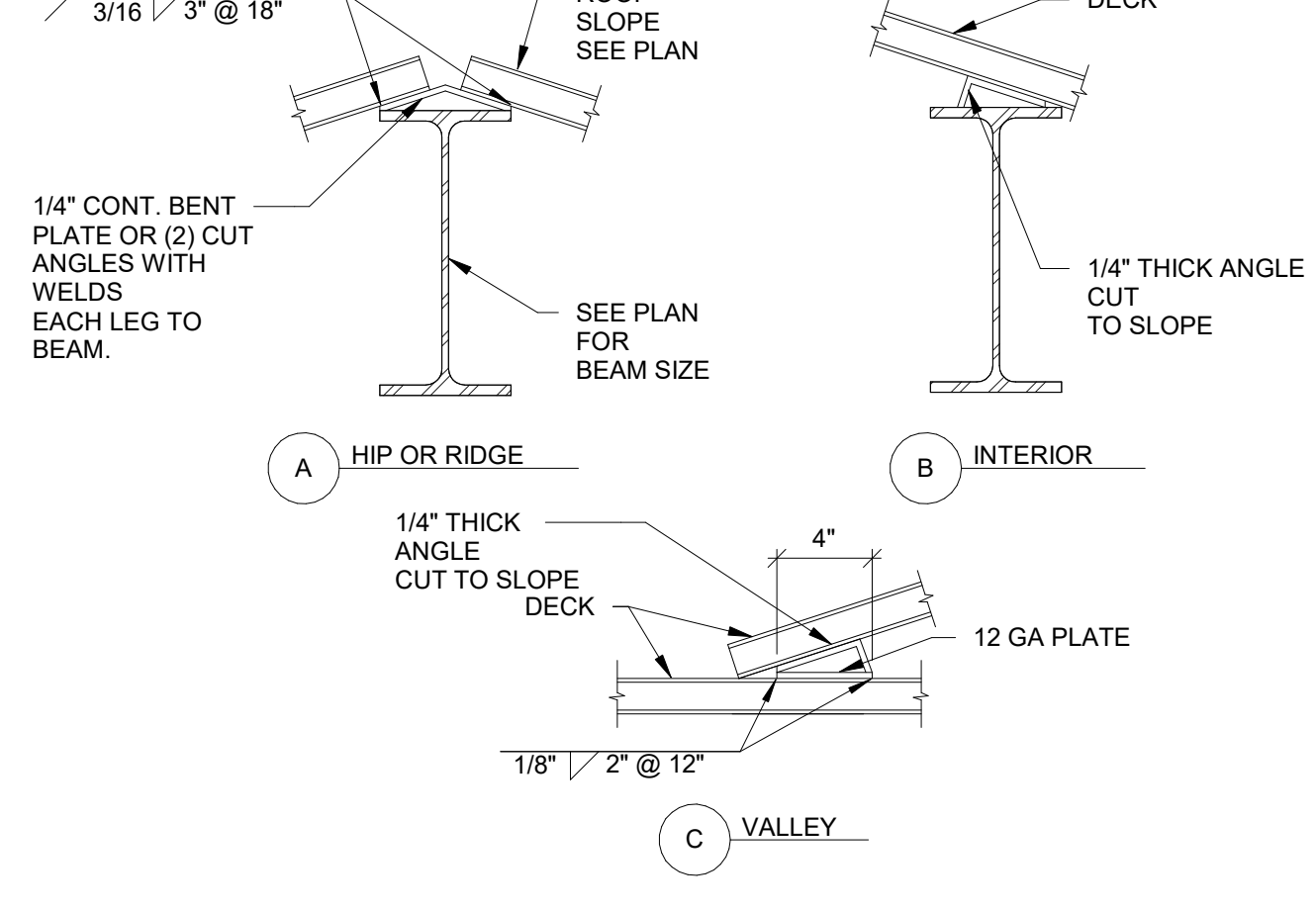
COMP SLAB EDGE BEAM N.T.S. **10**



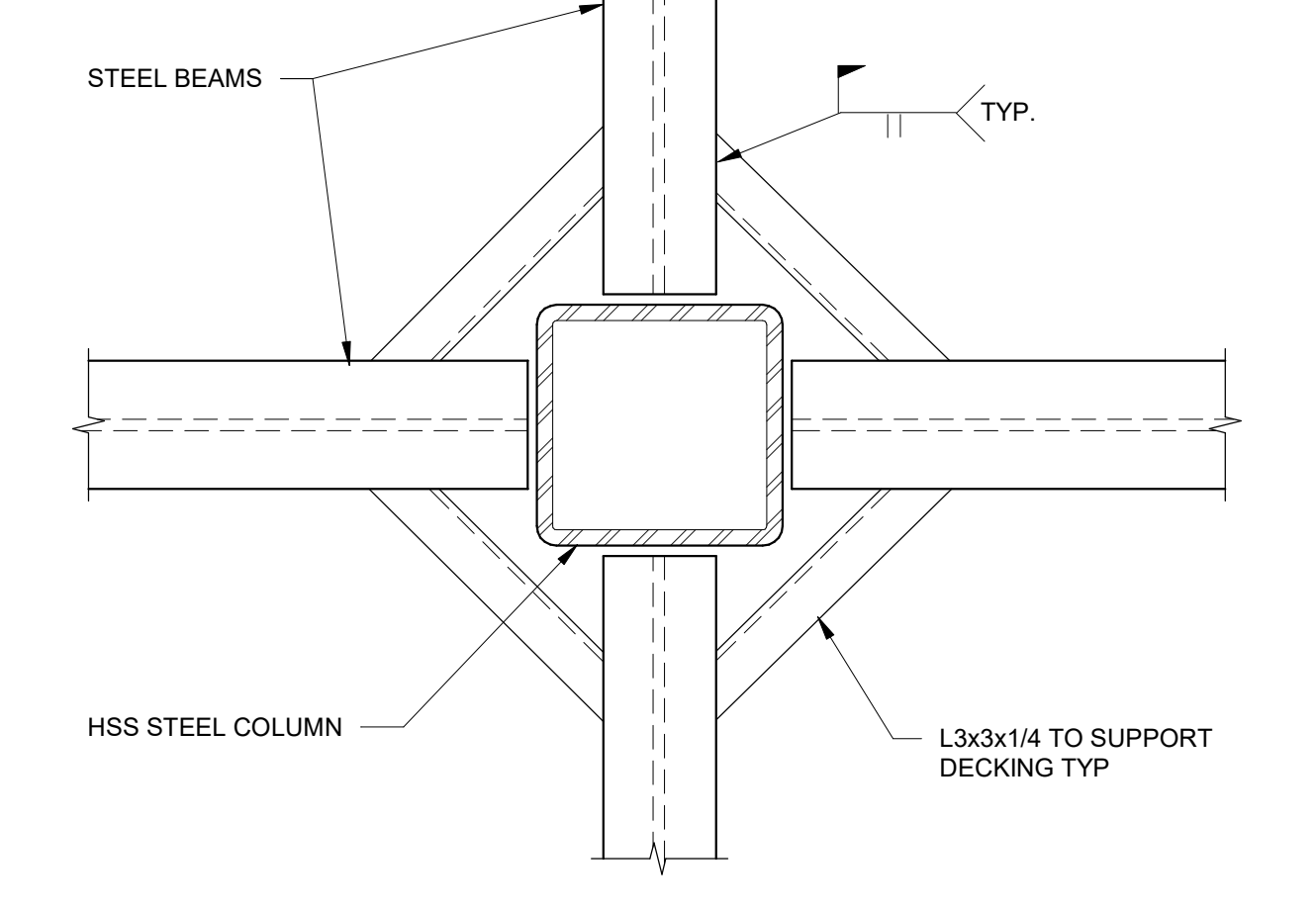
METAL DECK OPENING N.T.S. **4**



METAL DECK SUPPORT N.T.S. **5**



DECKING SUPPORT AT HSS COL N.T.S. **6**



DECK CLOSURE N.T.S. **7**

METAL DECK DATA						
DECK TYPE	GAGE	BASE METAL THICKNESS (IN)	MINIMUM S (IN)	MINIMUM I (IN)	SCREWS AT SIDELAP	SCREWS AT SUPPORTS
VERCO P18-36 (METAL STUD JOISTS)	18	0.0478	0.314	0.302	#10 x 3/4" AT EACH VALLEY @ 12" O.C.	#10 x 3/4" @ 12" O.C.
VERCO P18-36 (@ STEEL PURLINS)	18	0.0478	0.314	0.302	#12 x 3/4" AT EACH VALLEY @ 12" O.C.	#12 x 3/4" @ 12" O.C.

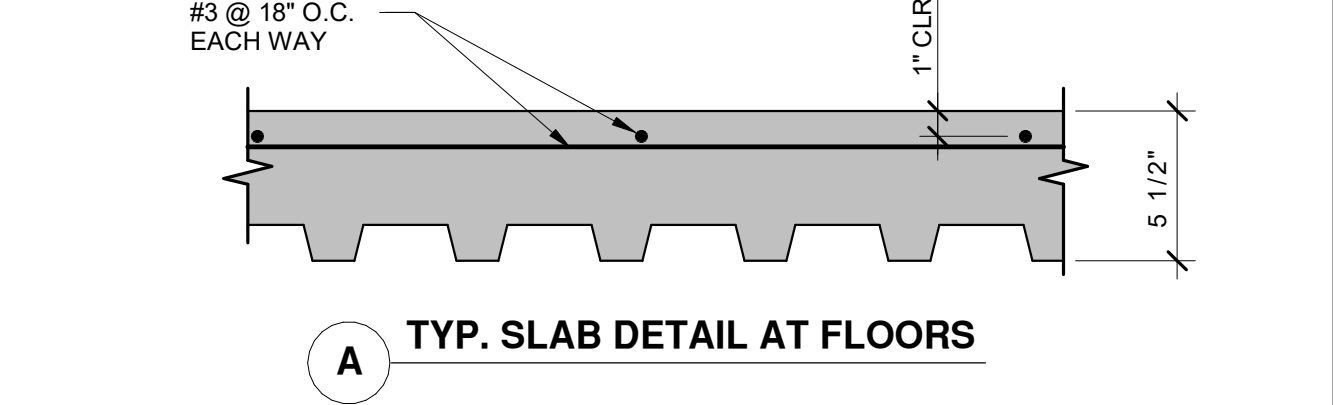
VERCO MANUFACTURING COMPANY DECK PROPERTIES ARE REFERENCED IN ORDER TO ESTABLISH DECK PROPERTY REQUIREMENTS. METAL DECKS WITH EQUIVALENT SECTION PROPERTIES MAY BE SUBMITTED FOR APPROVAL. SEE SPECIFICATIONS.

NOTE: ALL DECKING SHALL BE 2-SPAN MINIMUM. ICC ESR-1735P OR EQUAL

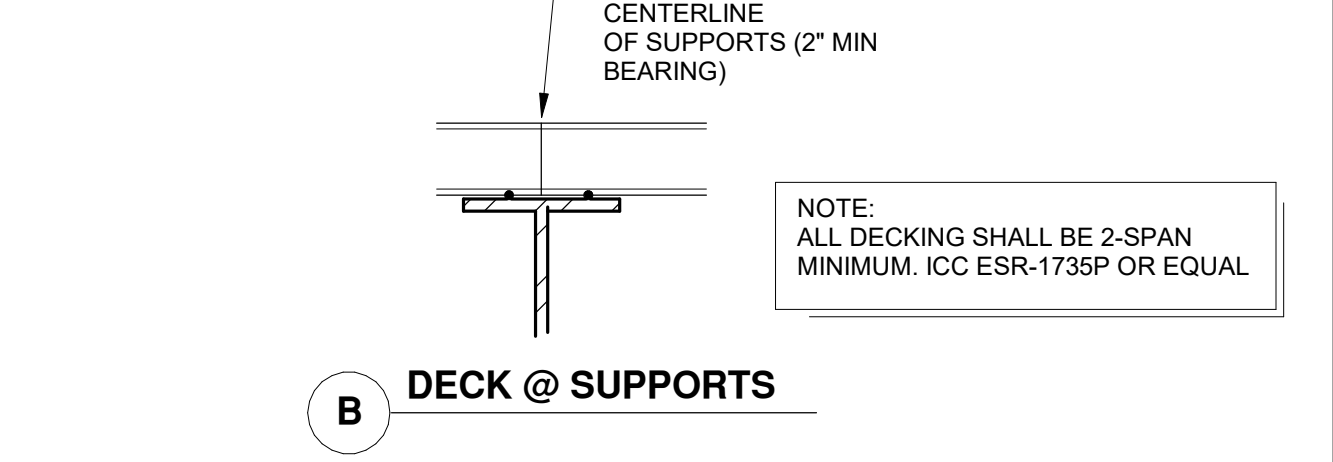
1-1/2" ROOF DECK WITH SCREW FAST. N.T.S. **1**

SECTION PROPERTIES					
DECK TYPE	GAGE	BASE METAL THICKNESS (IN)	MINIMUM S (IN)	MINIMUM I (IN)	MINIMUM DIAPHRAGM CAPACITY (PLF)
W3 FORMLOCK	18	0.048	0.752	1.213	1268

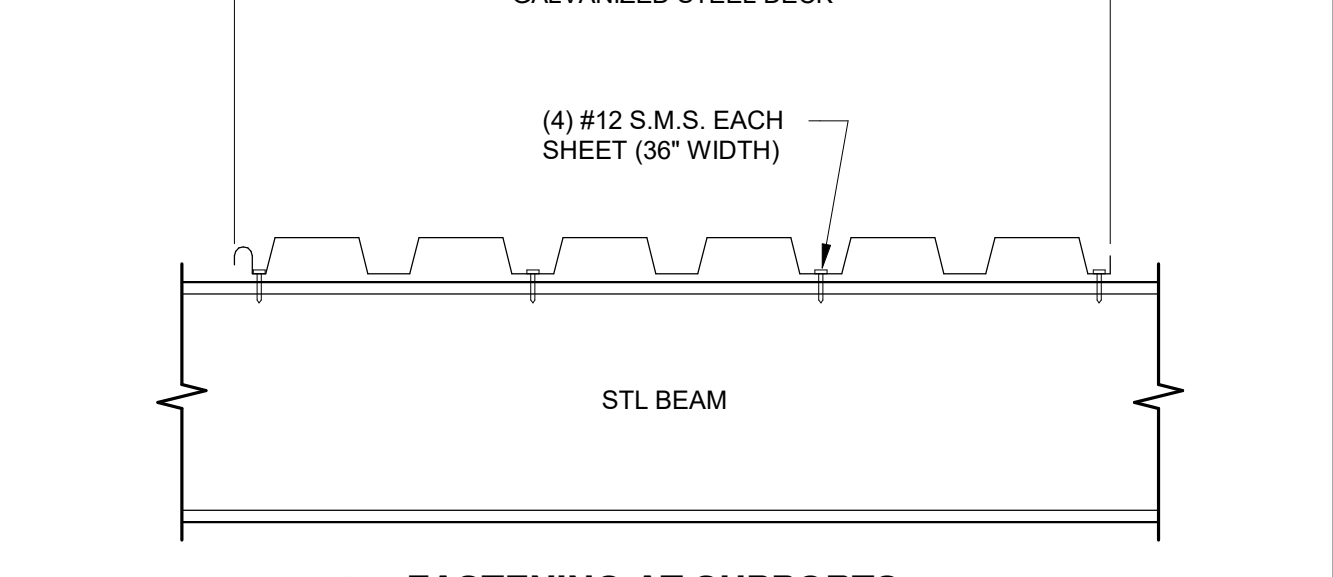
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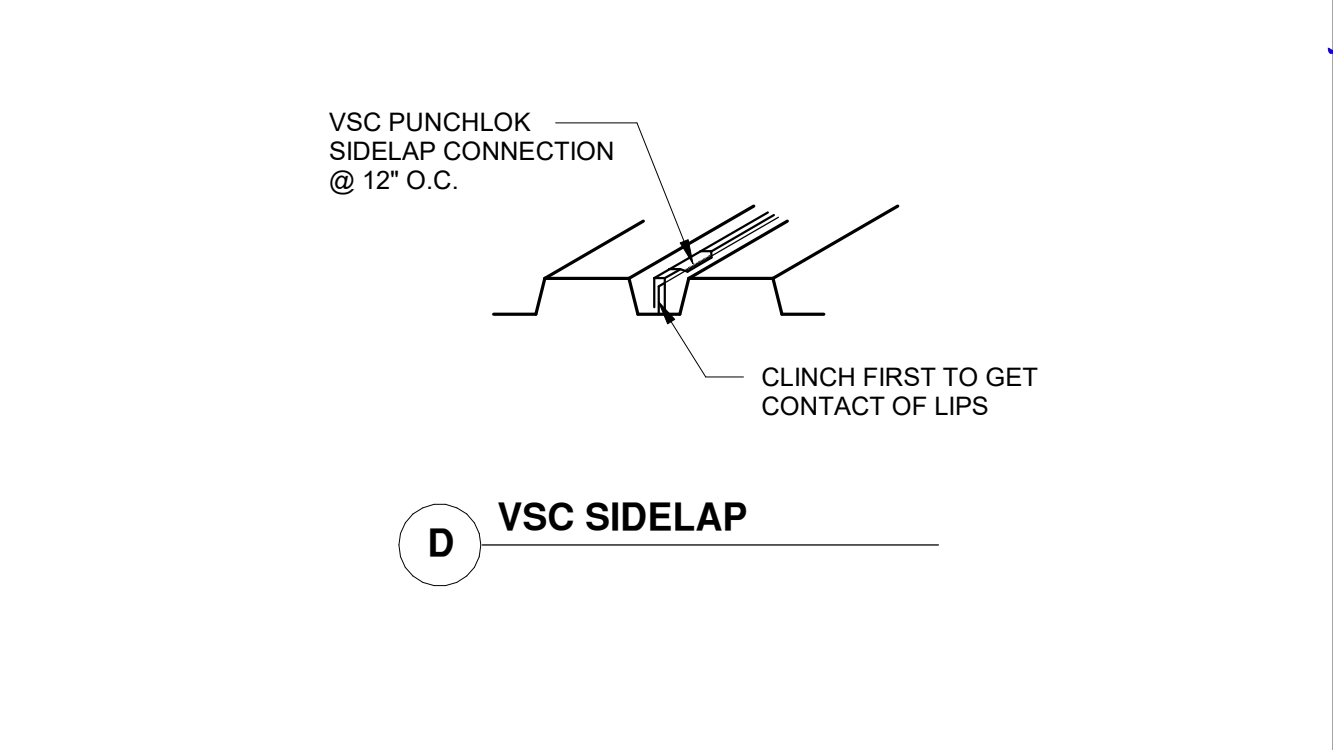
TYP. SLAB DETAIL AT FLOORS



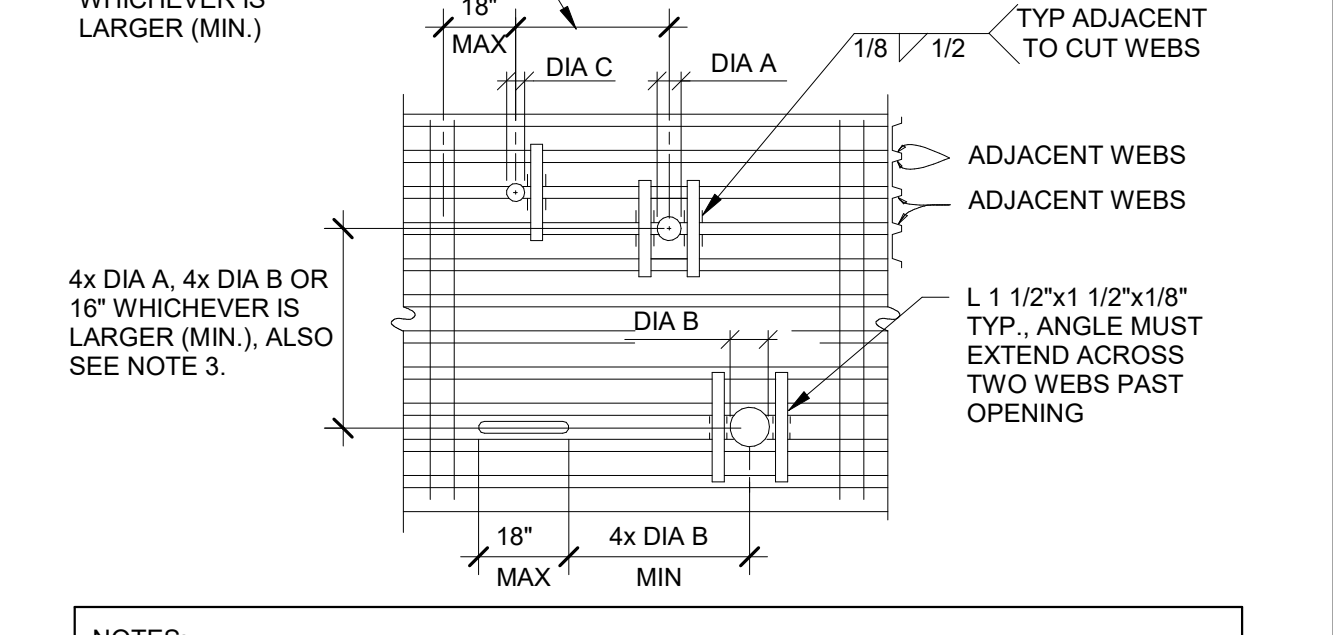
DECK @ SUPPORTS



FASTENING AT SUPPORTS



VSC SIDELAP



NOTES:
 1. ANGLES SHALL BE PLACED ON TOP OF DECK.
 2. SINGLE OPENINGS NOT CUTTING WEBS REQUIRE NO ANGLE.
 3. IF A STRING OF OPENINGS TRANSVERSE TO DECK OCCURS, THERE SHALL BE NO MORE THAN 4 OPENINGS IN A STRING. HOLES SHALL CUT NO MORE THAN TWO ADJACENT WEBS.
 4. HOLES THAT EXCEED THIS REQUIREMENT SHALL BE REINFORCED PER DETAIL 4 S-105

3" COMPOSITE FLOOR DECK N.T.S. **2**

AGENCY APPROVAL

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ARCHITECT STAMP

CONSULTANT STAMP

[Architect Stamp: Alex Kosh, C-22414, Exp. 9/30/24, State of California]

[Consultant Stamp: Jeffrey E. Haidt, No. 4313, Exp. 9/30/24, State of California]

REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE

TYPICAL STEEL DECK DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

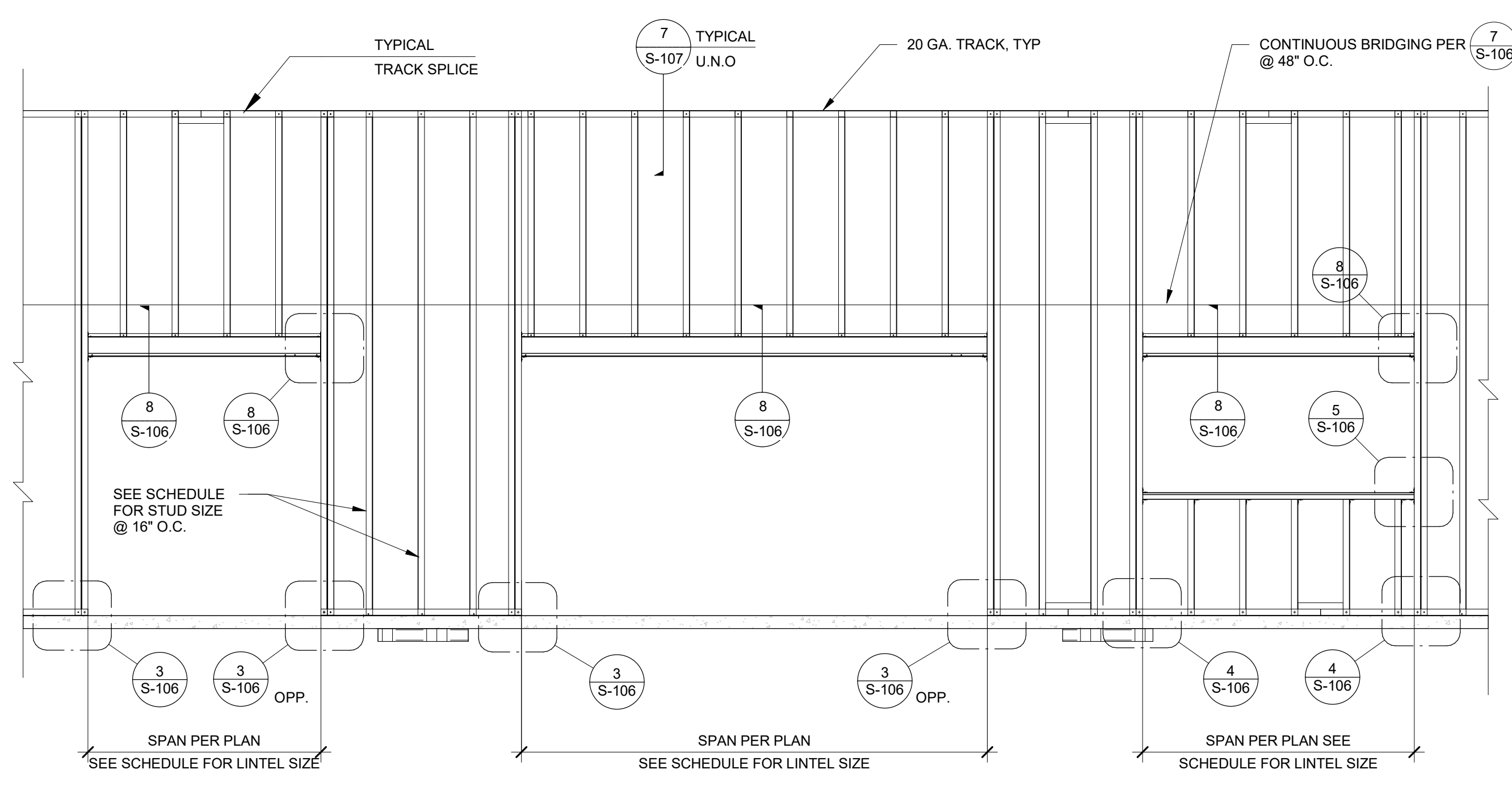
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S-105

DATE: APRIL 20, 2023

CONSTRUCTION DOCUMENTS

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 DATE PLOTTED: 5/30/2023 8:06:39 AM



CEILING JOISTS

SECTION	DIMENSIONS	GAGE	DESIGN THICKNESS	AREA (IN ²)	I (IN ⁴)	S (IN ³)
600S162-43	1-5/8" x 6"	18	0.0451	0.447	2.316	0.772

INTERIOR / EXTERIOR HEADERS

SPAN	HEADER SIZE	MINIMUM SECTION PROPERTIES			CONFIGURATION
		AREA (IN ²)	S (IN ³)	I (IN ⁴)	
UP TO 3'-0"	DBL 600S162-43*	0.477	0.772	2.316	
3'-0" TO 6'-0"	DBL 800S200-43*	0.582	1.325	5.302	
6'-0" TO 12'-0"	DBL 800S200-54*	0.726	1.475	6.573	

* PROVIDE 16 GA TRACK W/ 2" FLANGE TOP AND BOTTOM OF HEADER TO MATCH WIDTH OF STUD WALL
 NOTE: ALL HEADERS SPANNING OVER 5'-0" TO HAVE DBL KING STUDS ATTACHED PER SINGLE KING STUD AT SPANS LESS THAN 5'-0", TYPICAL, U.N.O.

INTERIOR AND EXTERIOR WALL STUD AND TRACK PROPERTIES (UNO ON PLANS) (ESR-1166P)

SECTION	LOCATION	MAX. SPAN	DIMENSIONS	GAGE	DESIGN THICKNESS	AREA (IN ²)	I (IN ⁴)	S (IN ³)
600S162-43	EXTERIOR WALL STUD	15'-0"	1-5/8"x6"	18	0.0451	0.447	2.316	0.772
600S162-54	EXTERIOR WALL STUD	15'-0"	1-5/8"x6"	16	0.0566	0.556	2.860	0.953
600S250-54	EXTERIOR WALL STUD	20'-0"	2-1/2"x6"	16	0.0566	0.670	3.819	1.273
800S162-43	EXTERIOR WALL STUD	15'-0"	1-5/8"x8"	18	0.0451	0.537	4.633	1.158
800S162-54	EXTERIOR WALL STUD	15'-0"	1-5/8"x8"	16	0.0566	0.670	5.736	1.434
1000S162-43	INTERIOR WALL STUD	36'-8"	1-5/8"x10"	18	0.0451	0.627	8.025	1.605
1000S162-54	INTERIOR WALL STUD	36'-8"	1-5/8"x10"	16	0.0566	0.783	9.950	1.990
400S162-43	INTERIOR WALL STUD	18'-0"	1-5/8"x4"	18	0.0451	0.443	1.098	0.549
600S162-43	INTERIOR WALL STUD	24'-9"	1-5/8"x6"	18	0.0451	0.447	2.316	0.772
800S162-43	INTERIOR WALL STUD	30'-11"	1-5/8"x8"	18	0.0451	0.537	4.633	1.158
400T150-54	SILL TRACK	-	1-1/2"x4"	16	0.0566	0.396	1.025	0.489
600T150-54	SILL TRACK	-	1-1/2"x6"	16	0.0566	0.509	2.611	0.843
800T150-54	SILL TRACK	-	1-1/2"x8"	16	0.0566	0.622	5.214	1.272
1000T150-54	SILL TRACK	-	1-1/2"x10"	16	0.0566	0.735	9.061	1.777
400T250-54	SLIP TRACK	-	2-1/2"x4"	16	0.0566	0.509	1.511	0.720
600T250-54	SLIP TRACK	-	2-1/2"x6"	16	0.0566	0.622	3.678	1.187
800T250-54	SLIP TRACK	-	2-1/2"x8"	16	0.0566	0.735	7.09	1.730
1000T250-54	SLIP TRACK	-	2-1/2"x10"	16	0.0566	0.848	11.972	2.348

- NOTES:**
- STUD WALLS SUPPORTING WALL HUNG CABINETS ARE 16 GA.
 - SECTION PROPERTIES ARE GROSS PROPERTIES (EXCEPT DESIGN THICKNESS).
 - SECTION PROPERTIES ARE MINIMUM PROPERTIES AND SHALL COMPLY WITH SSMA (ESR-1166P).
 - FOR RESTRICTIONS ON FRAMING ATTACHMENT TO SEISMIC BRACES SEE 3 (S-109)

AGENCY APPROVAL

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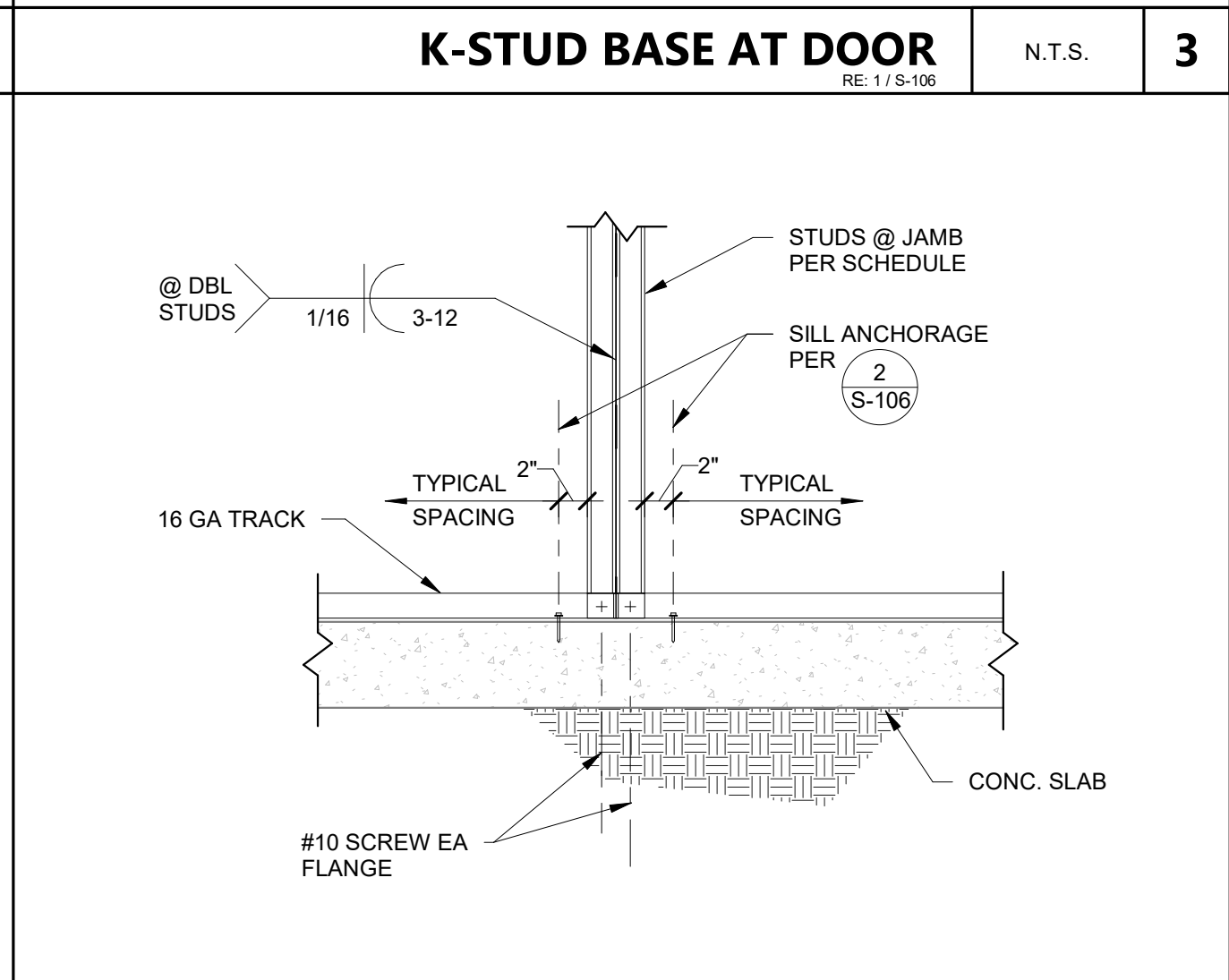
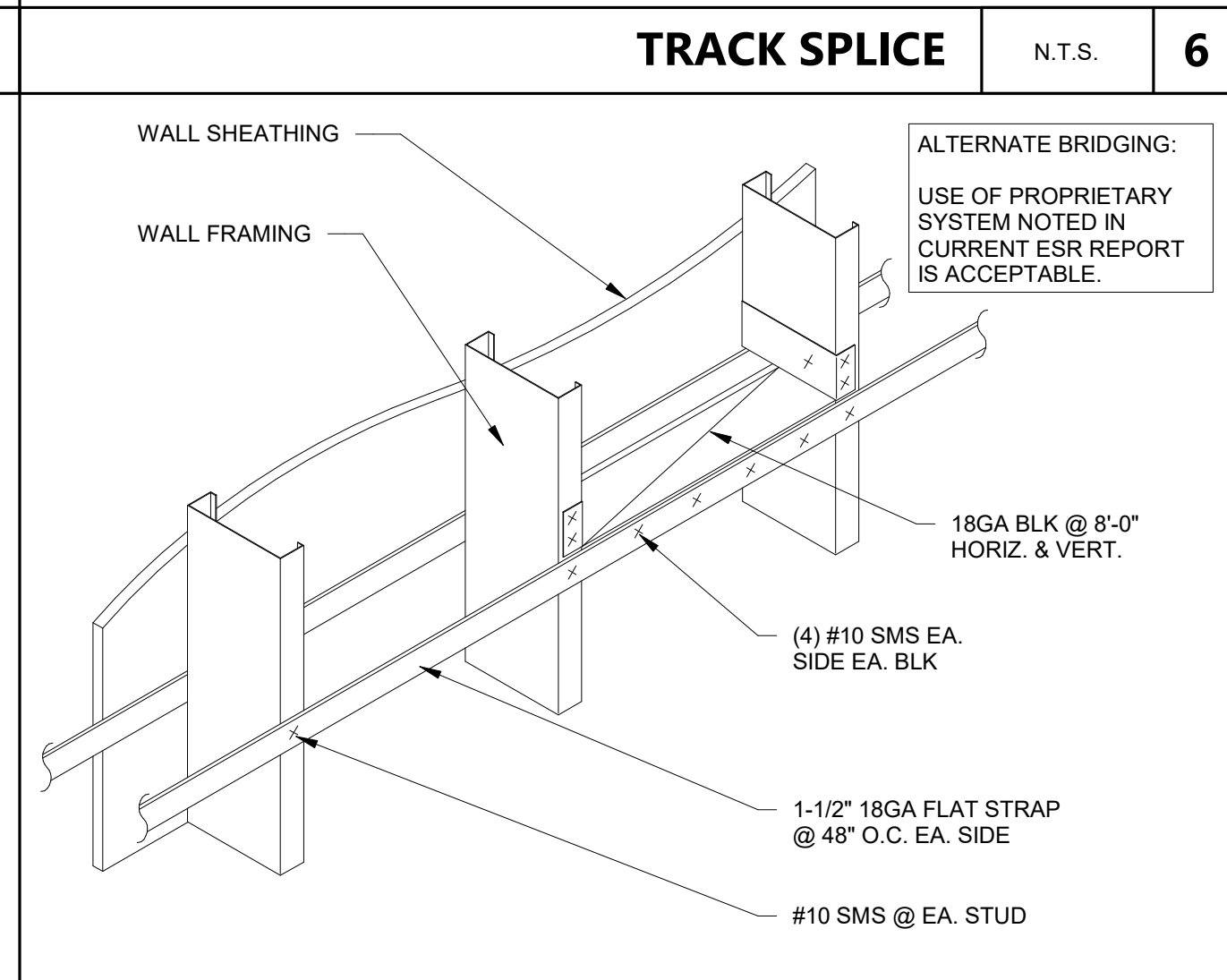
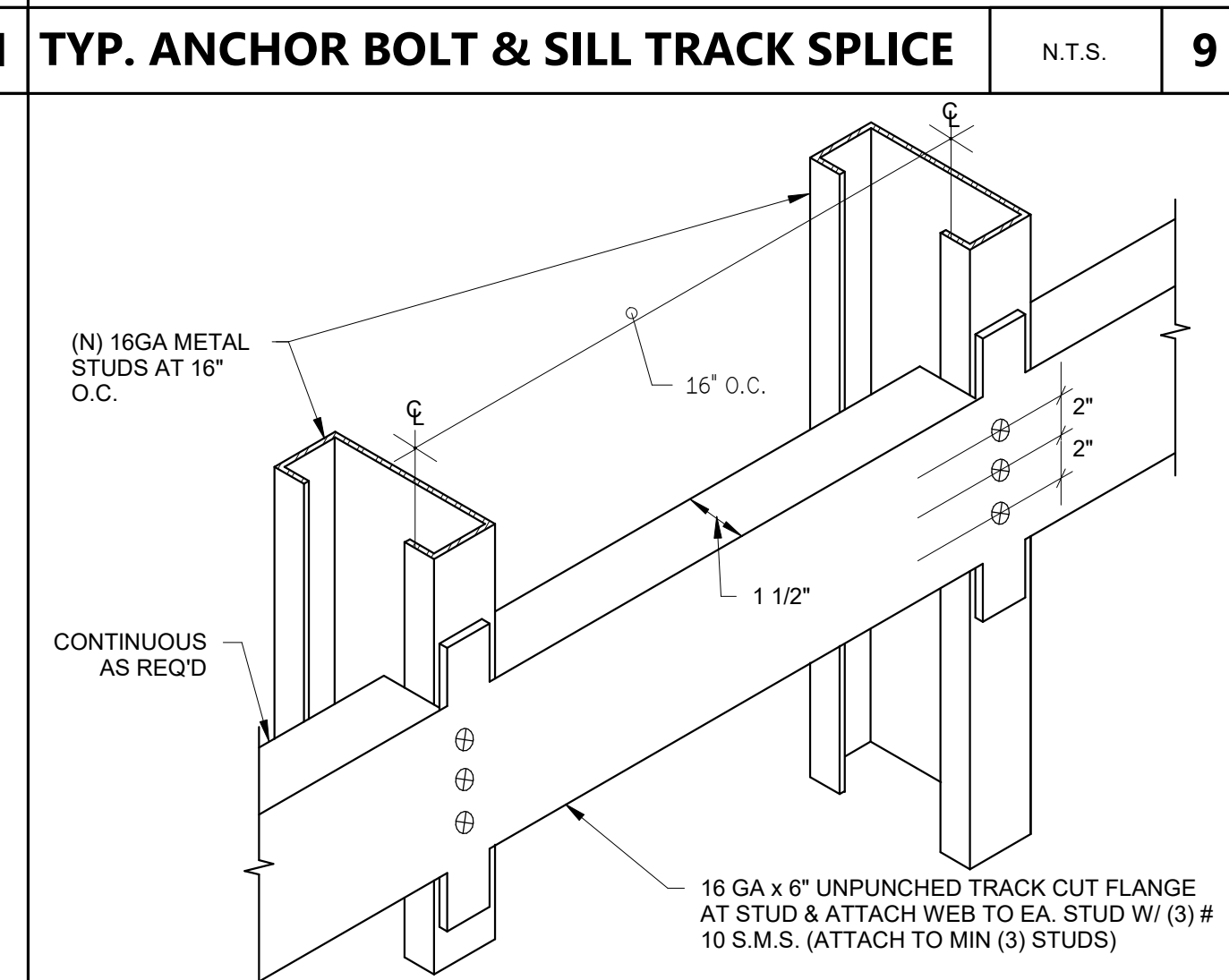
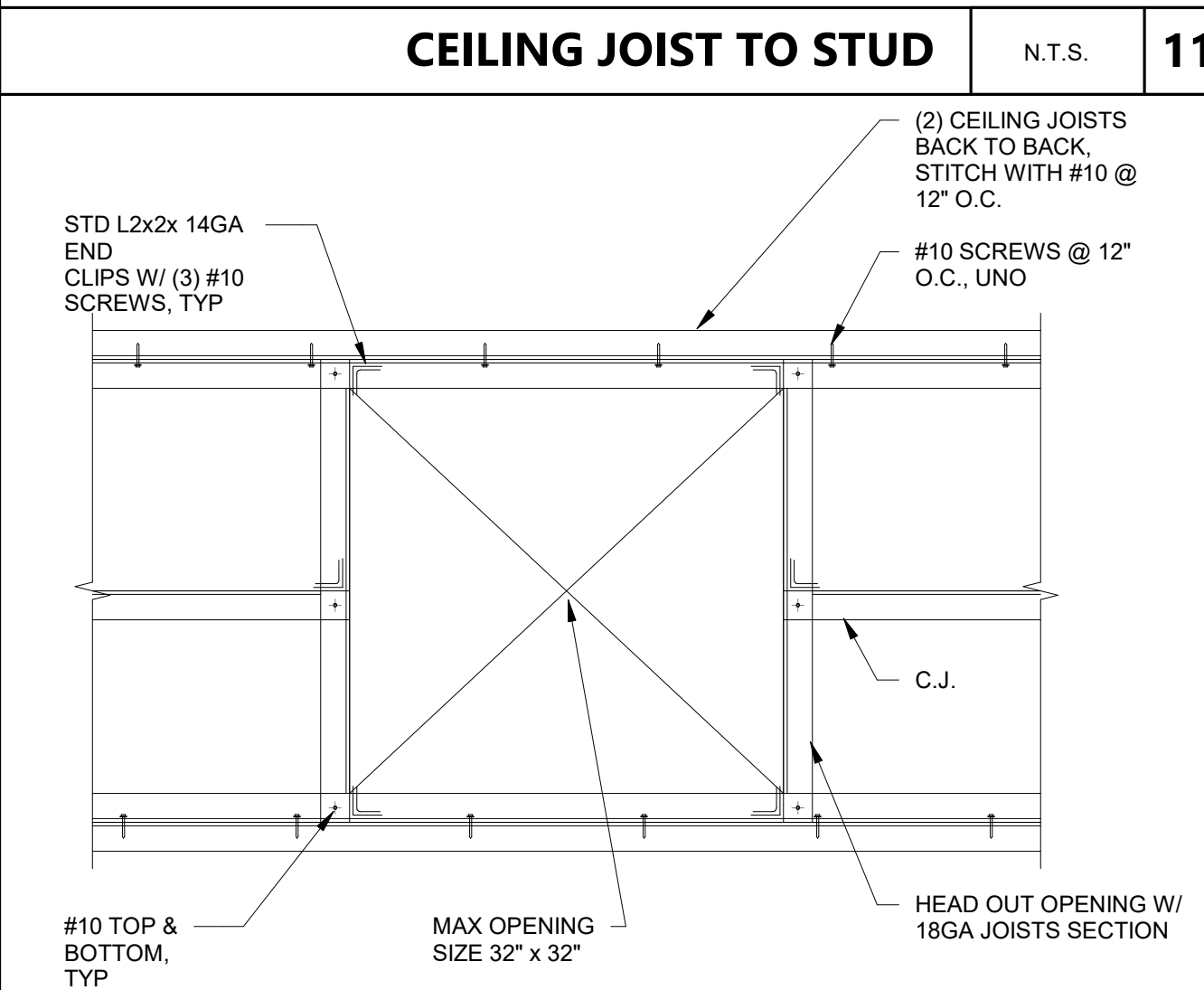
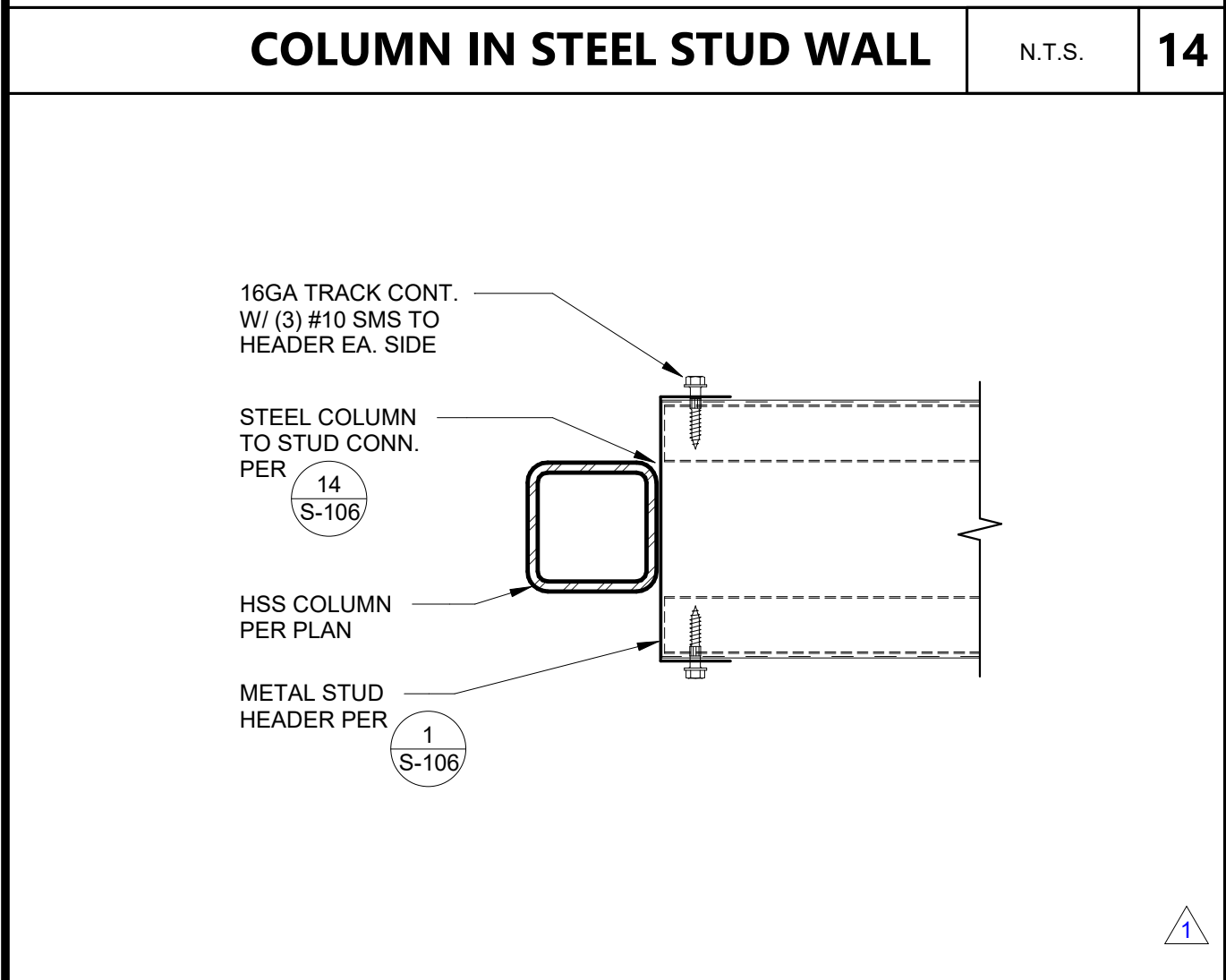
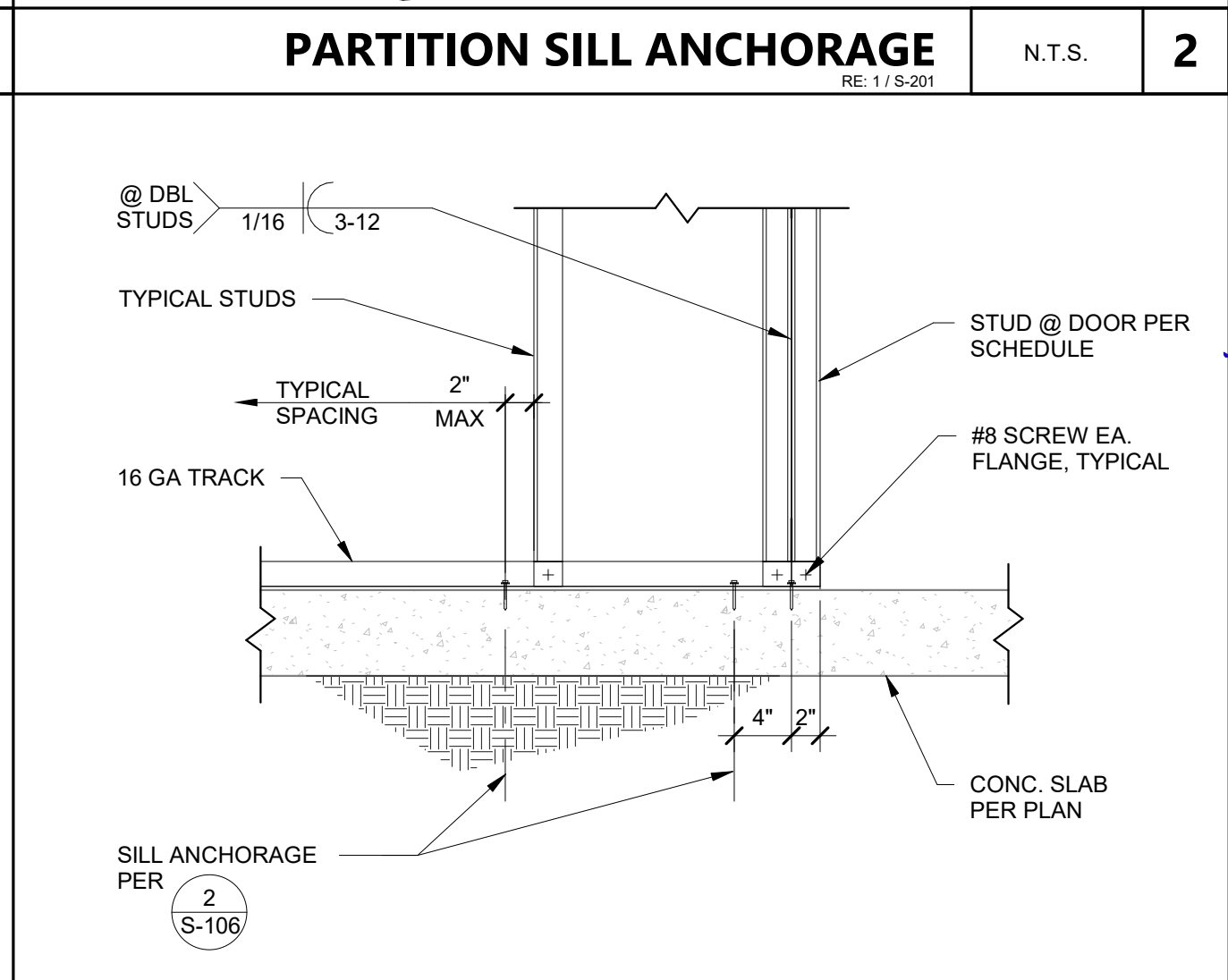
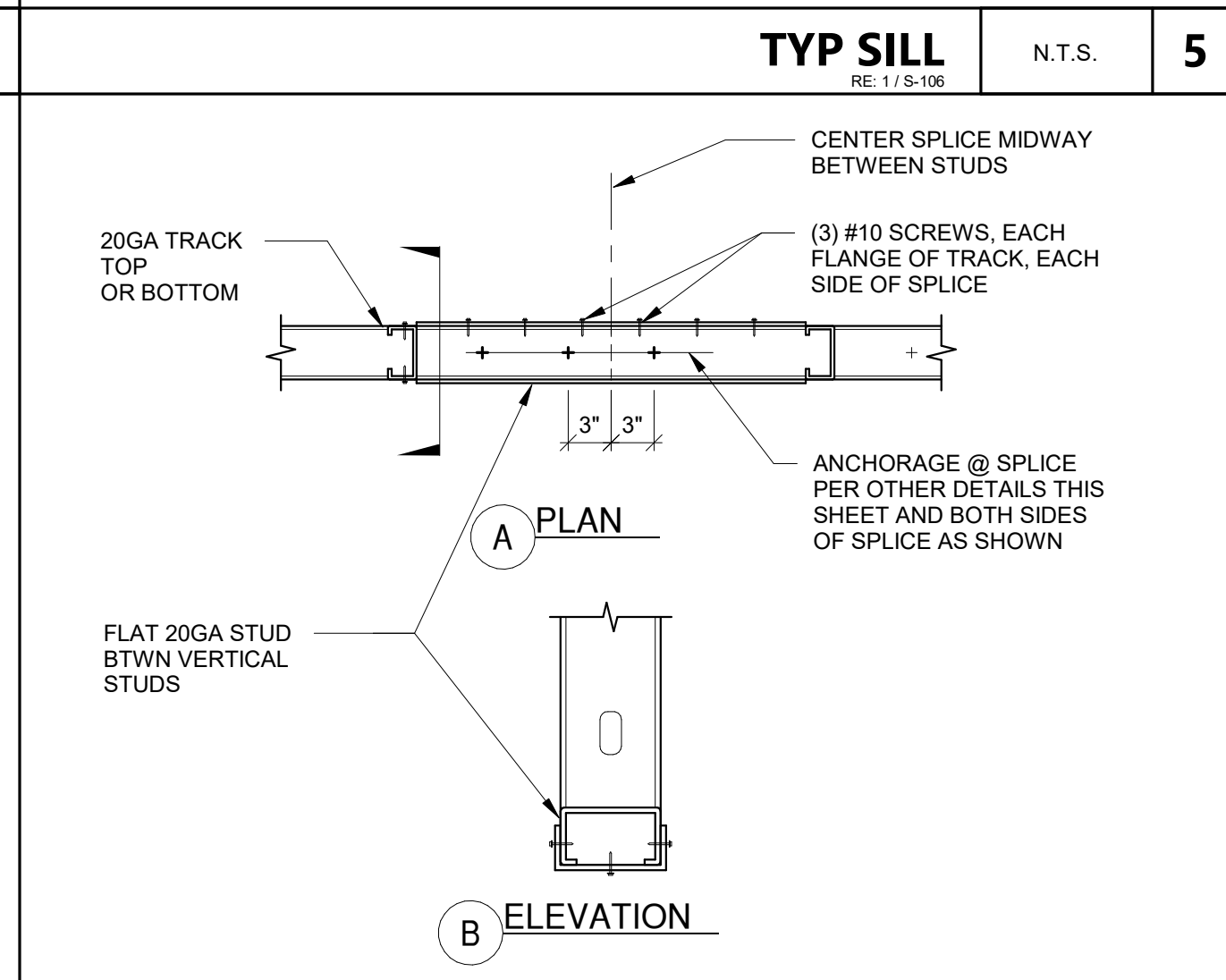
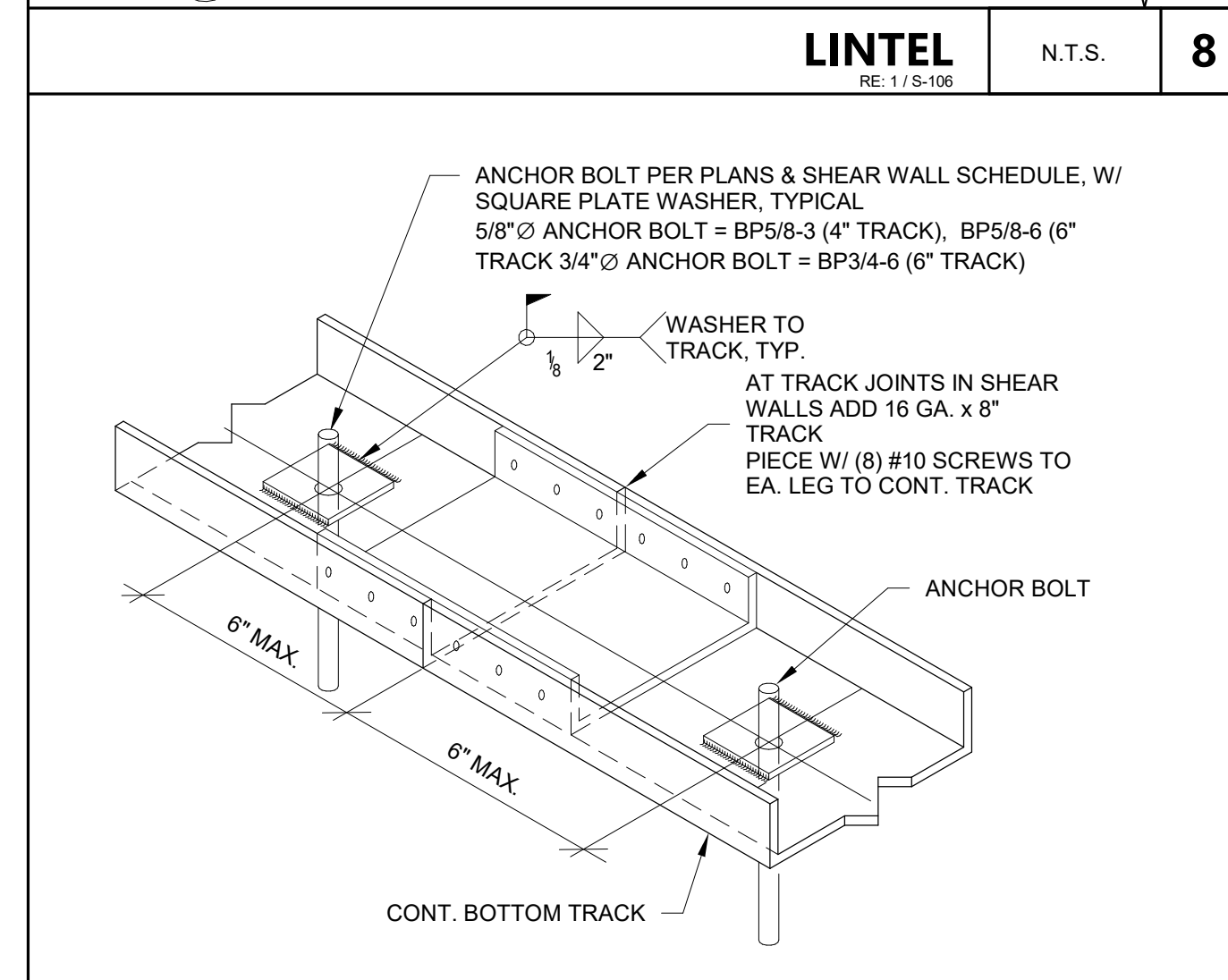
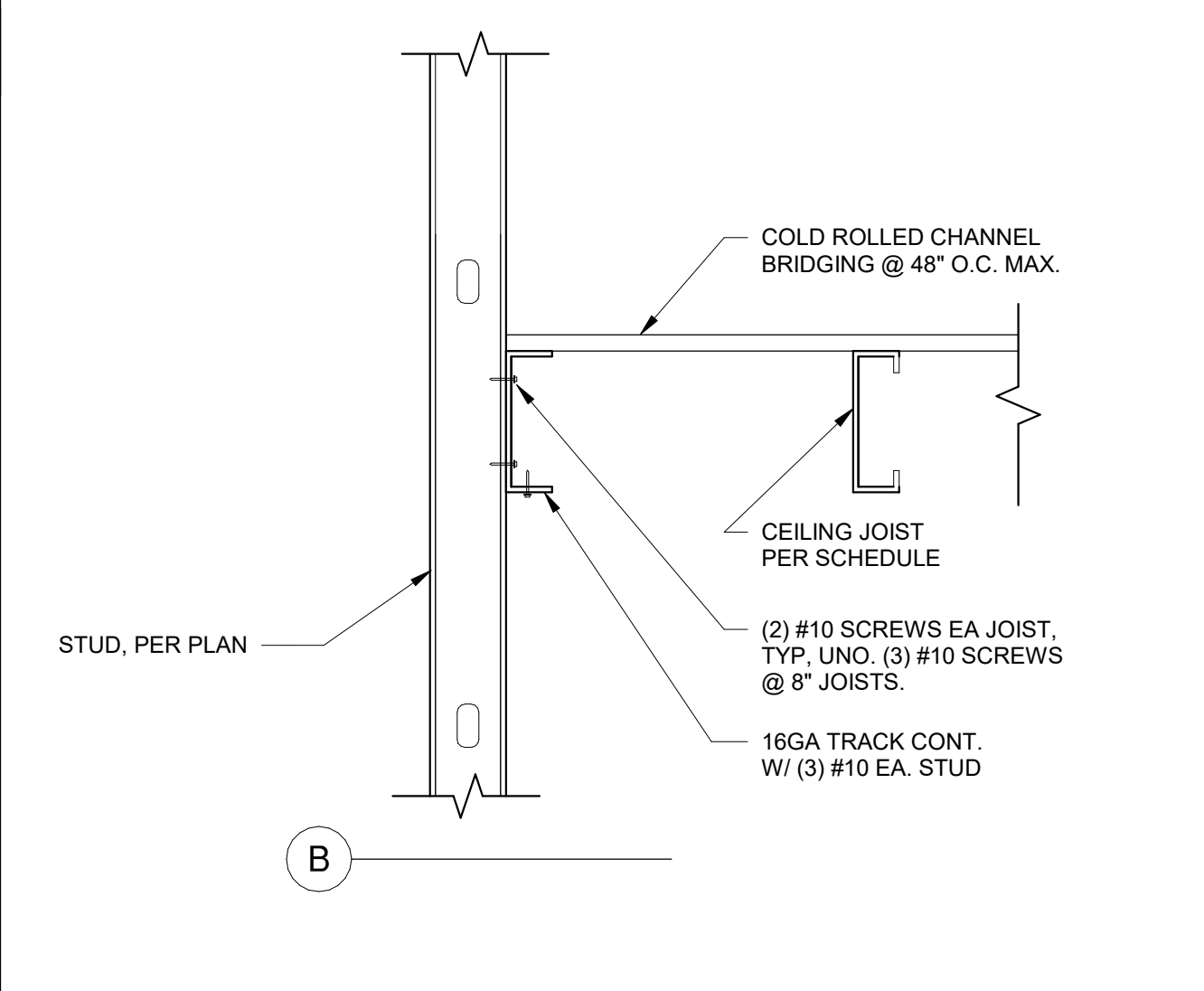
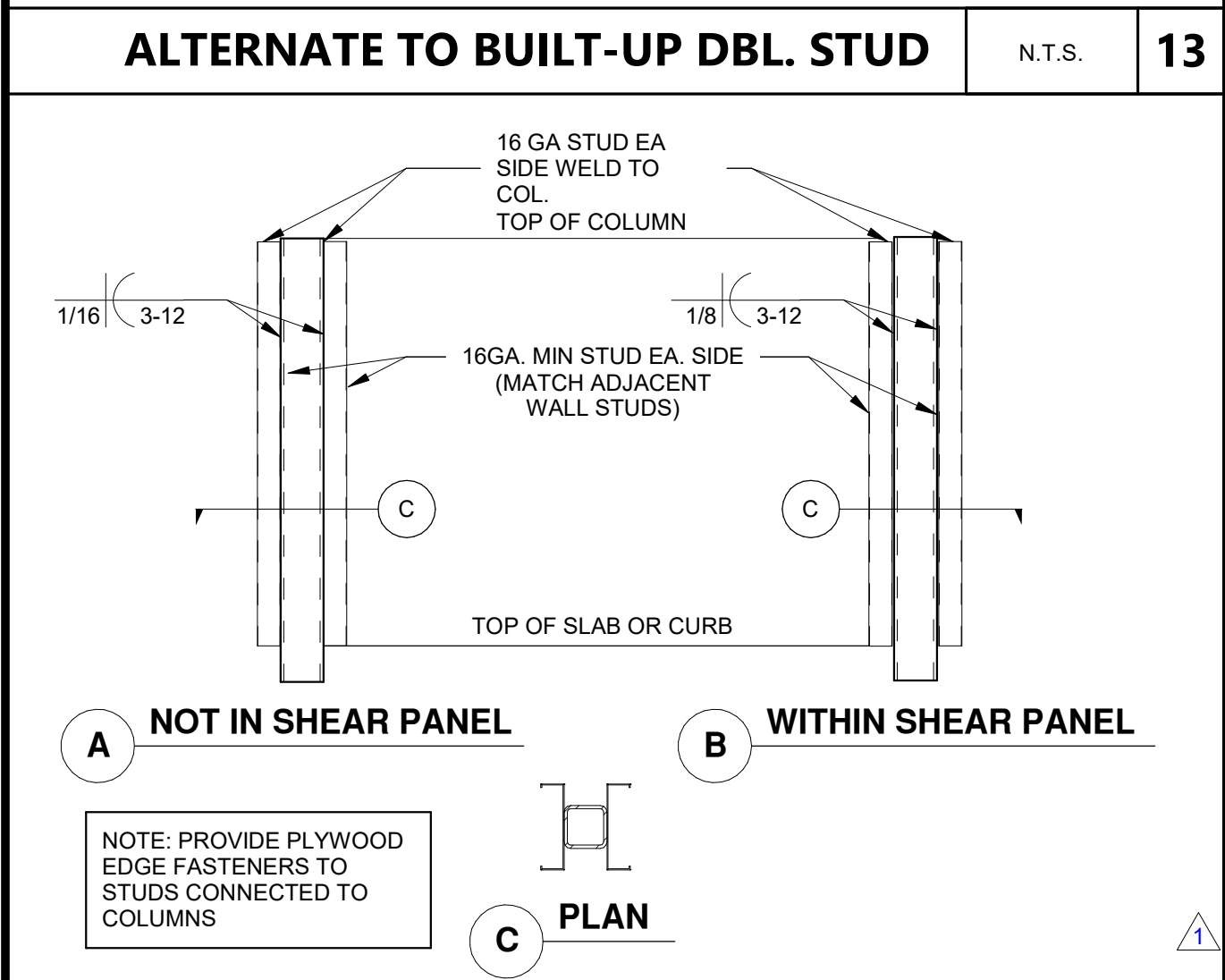
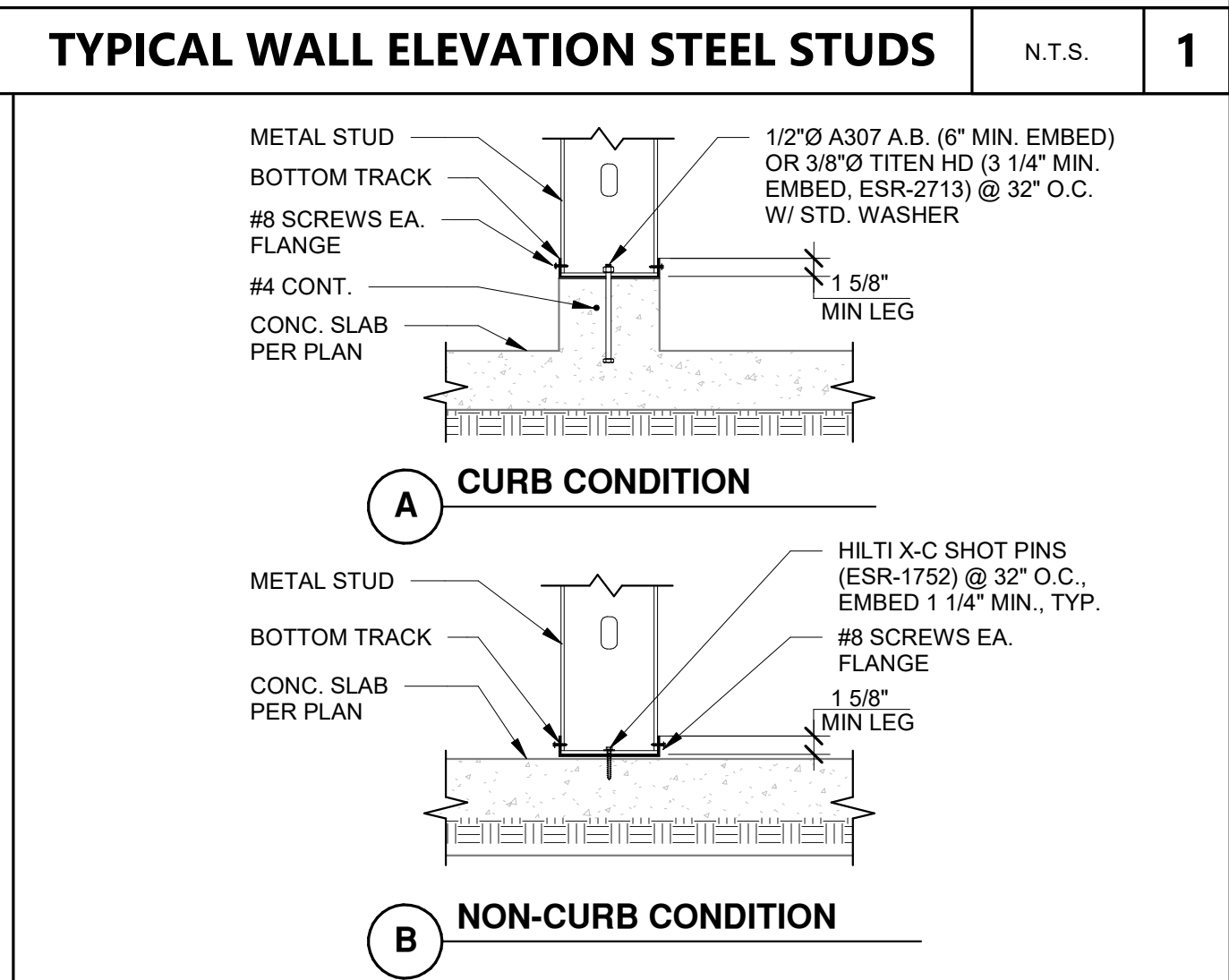
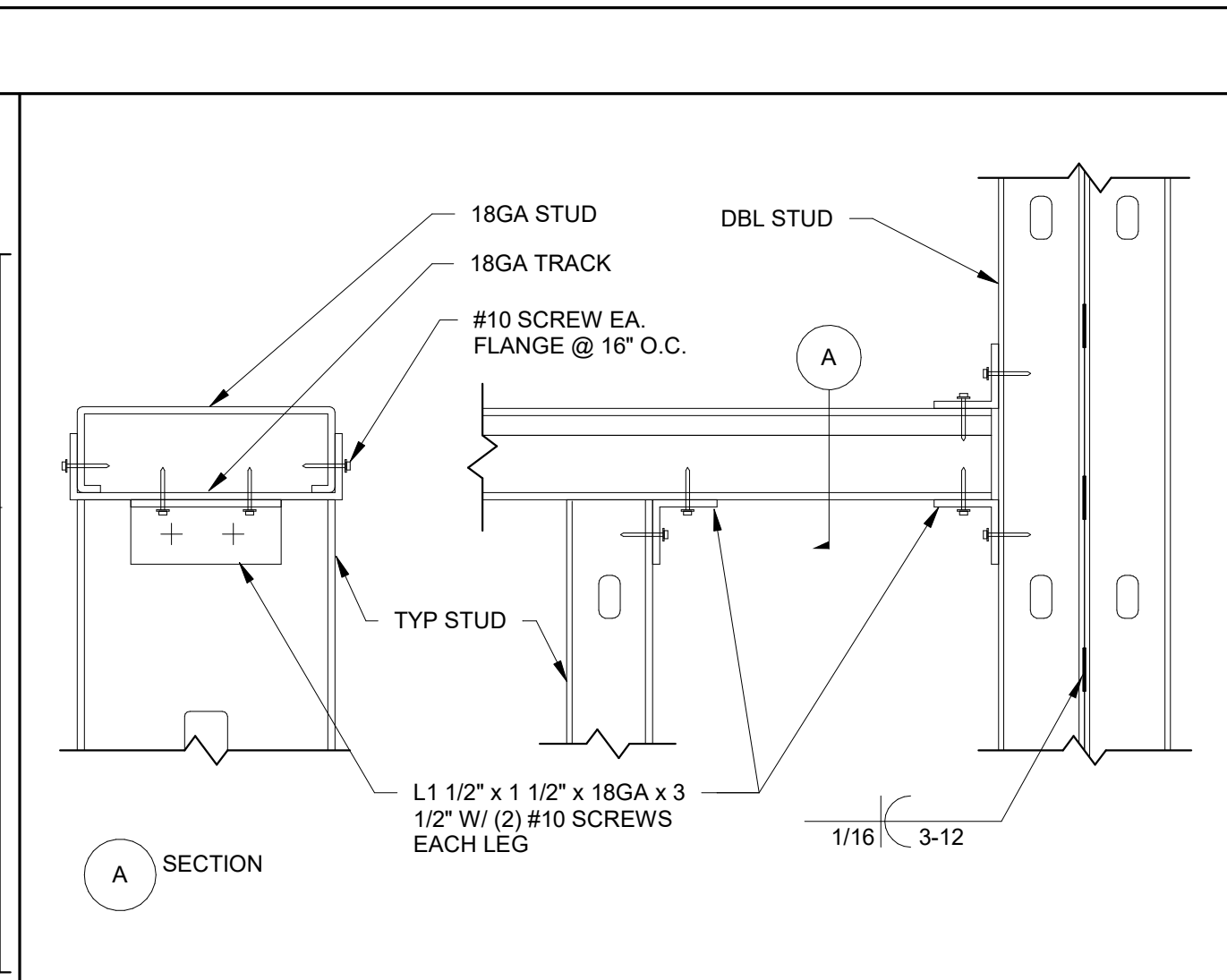
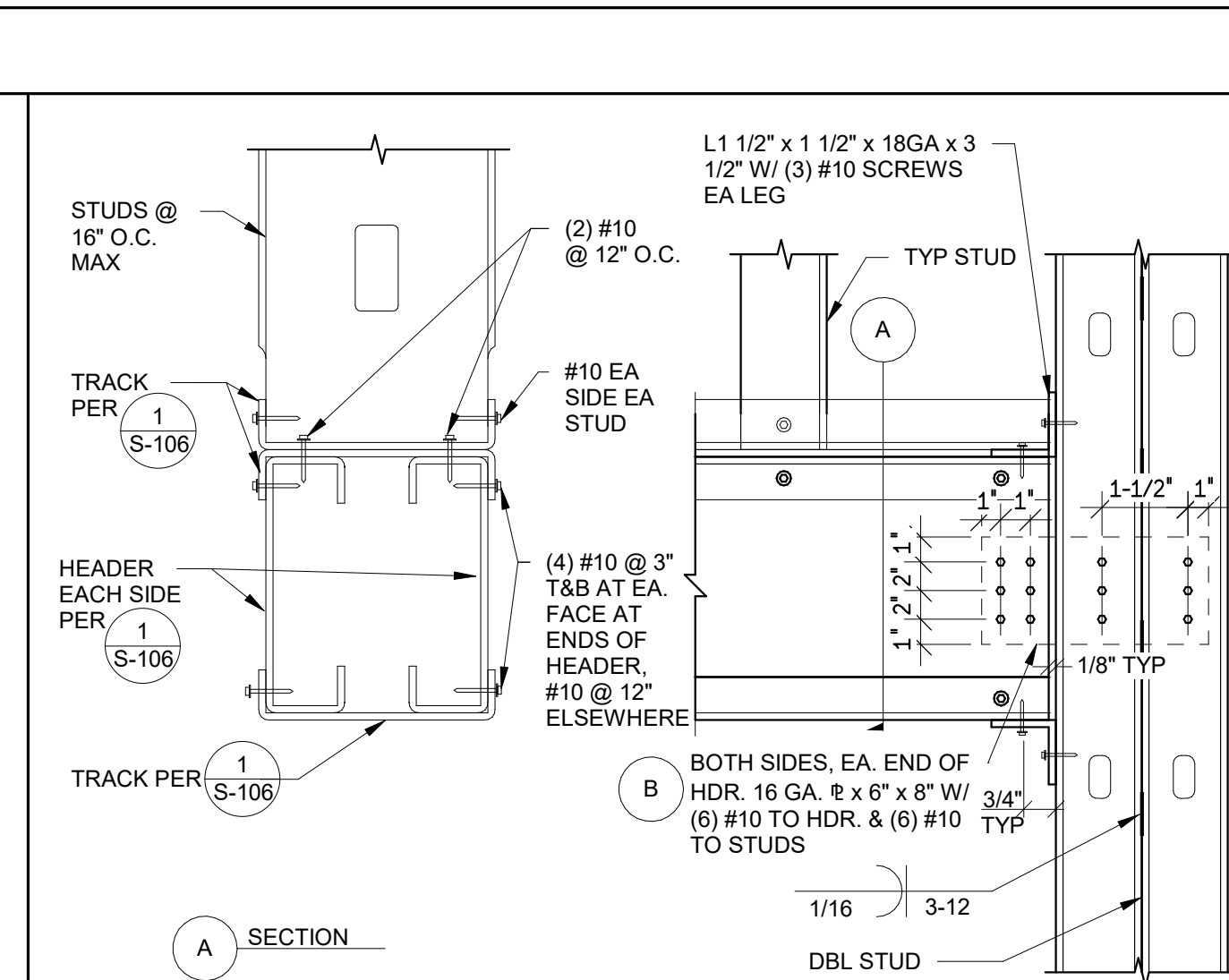
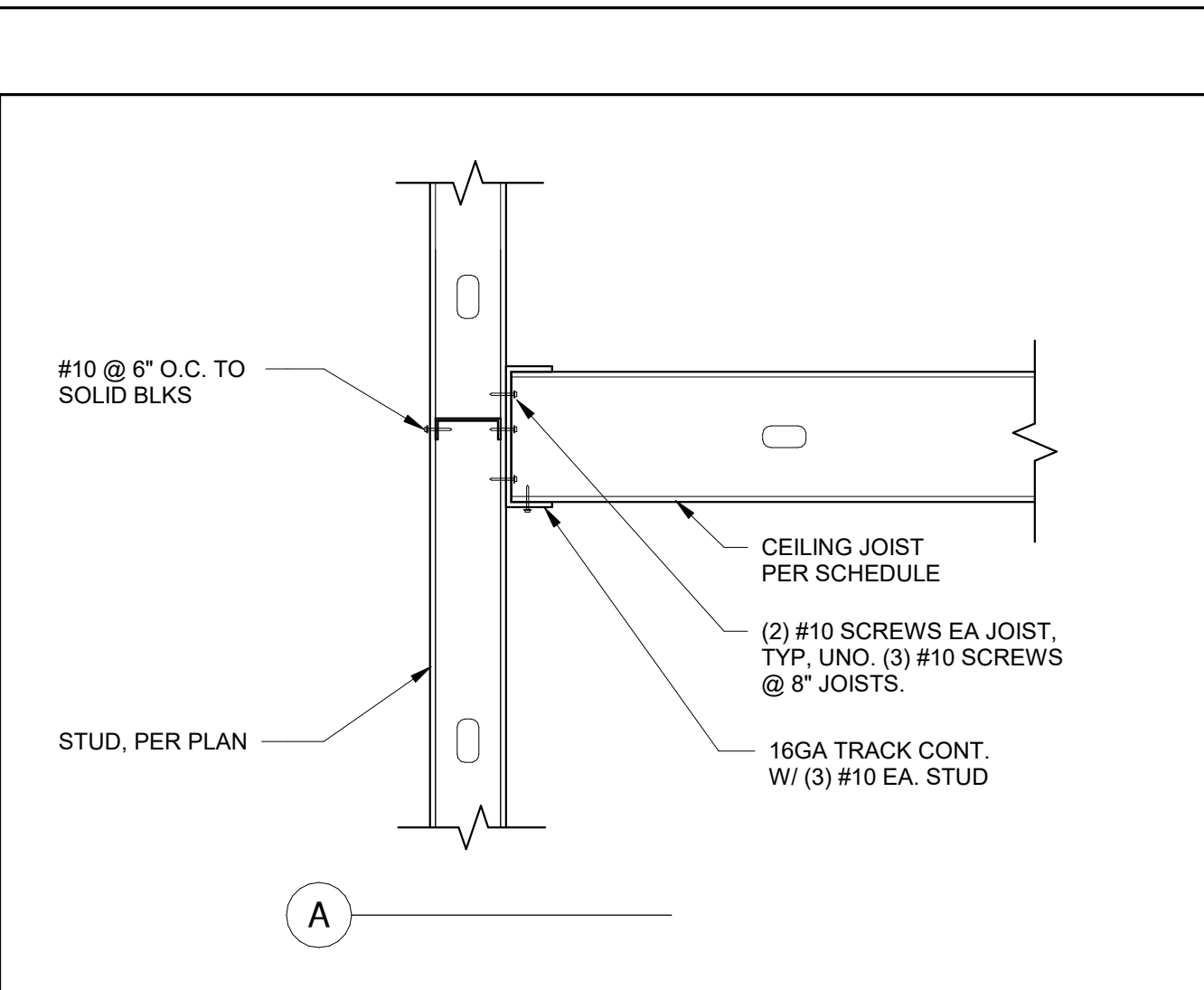
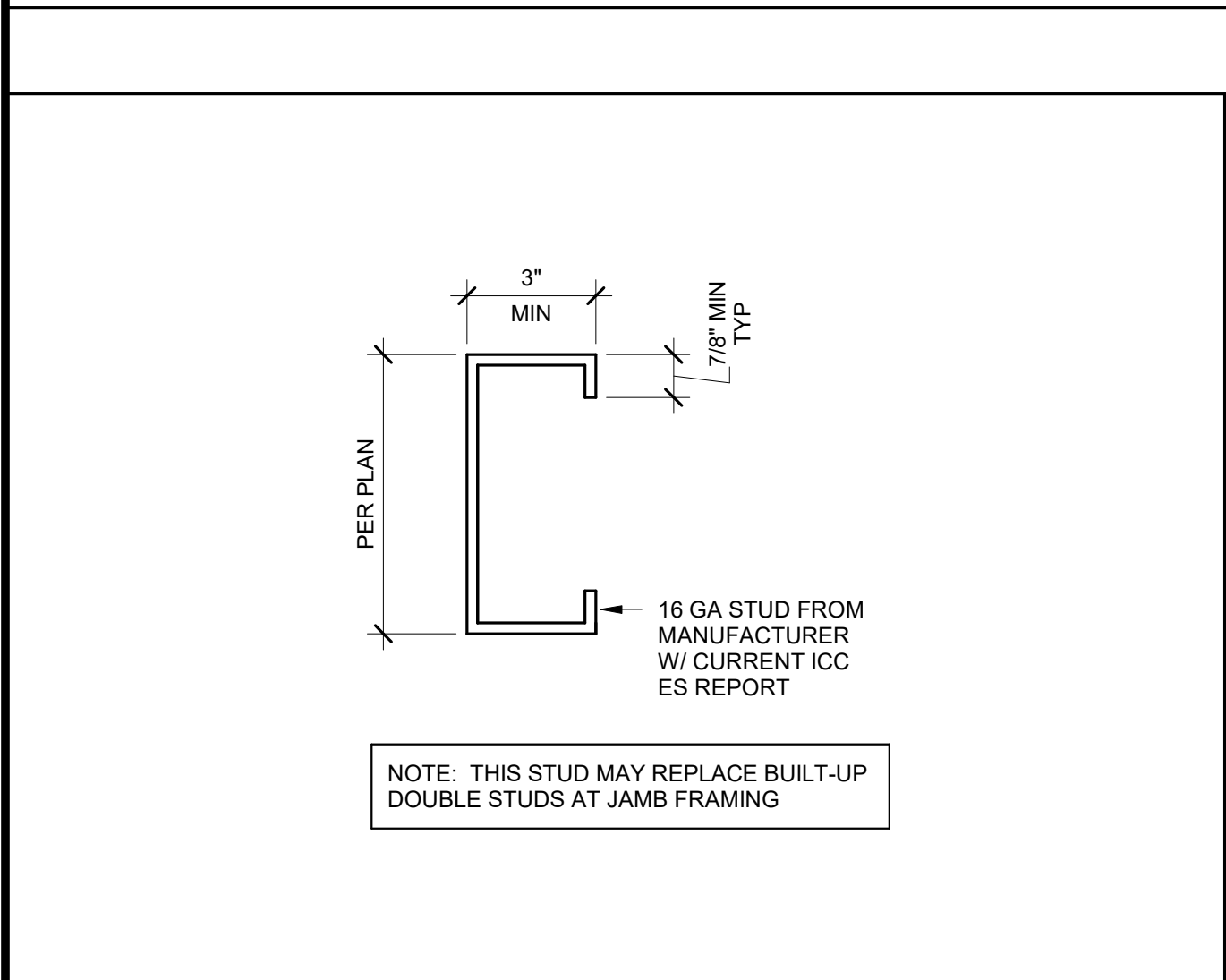
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ARCHITECT STAMP

LICENSED ARCHITECT
 C-22414
 Blue Brady
 REV 10-31-23
 STATE OF CALIFORNIA

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
 No. 4313
 Exp. 9/30/24
 Blue Brady
 STATE OF CALIFORNIA
 05/30/2023

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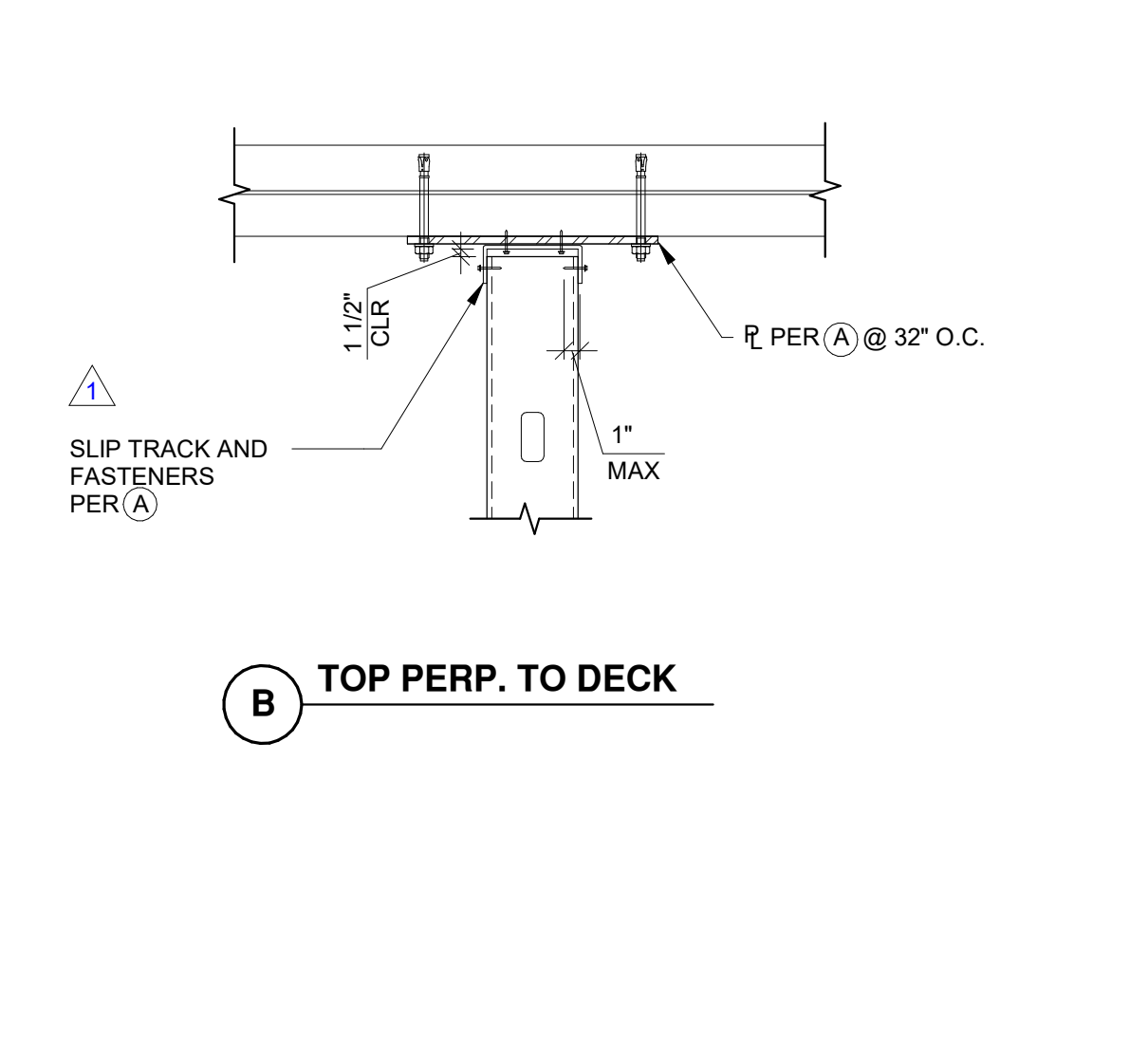
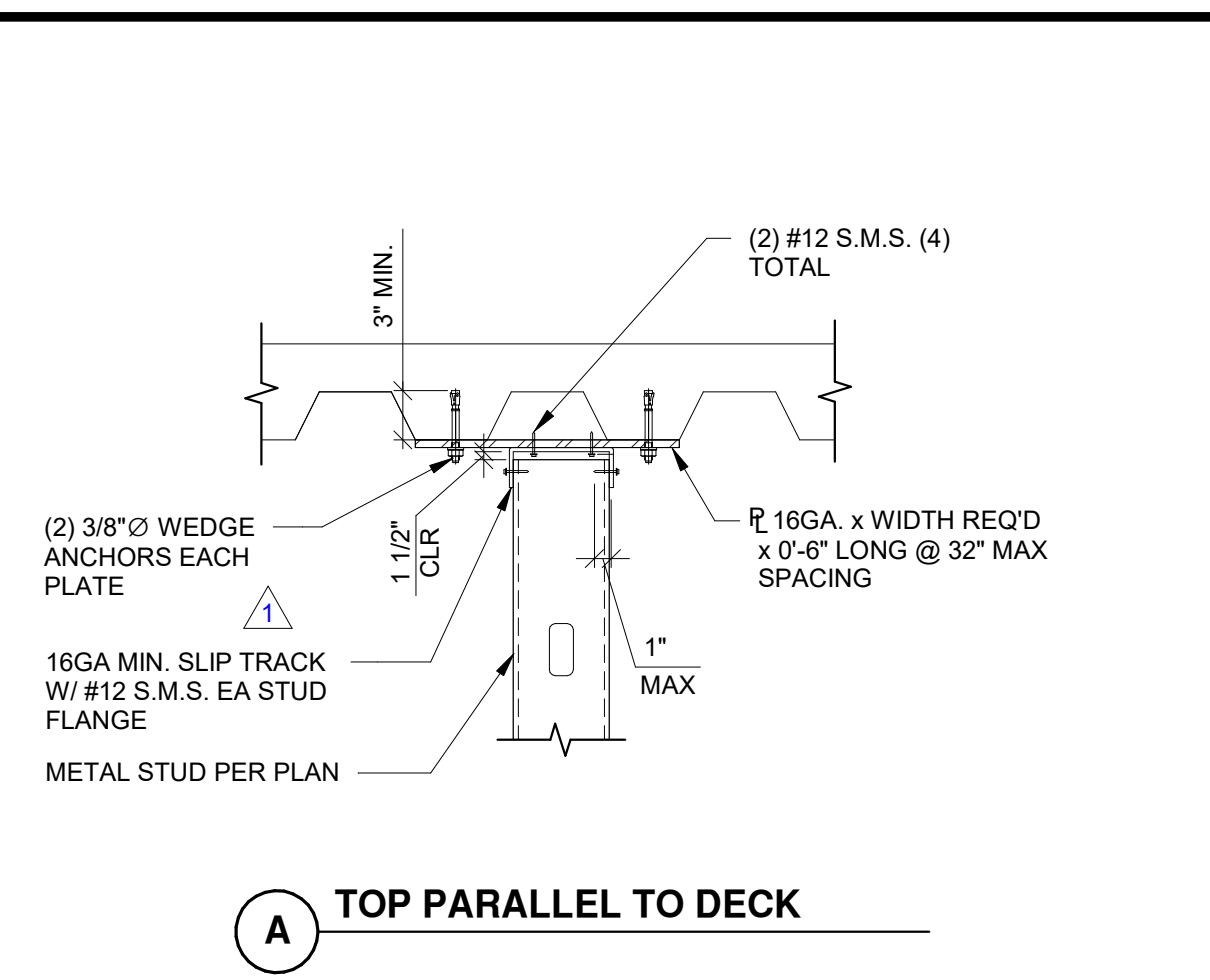
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S-106

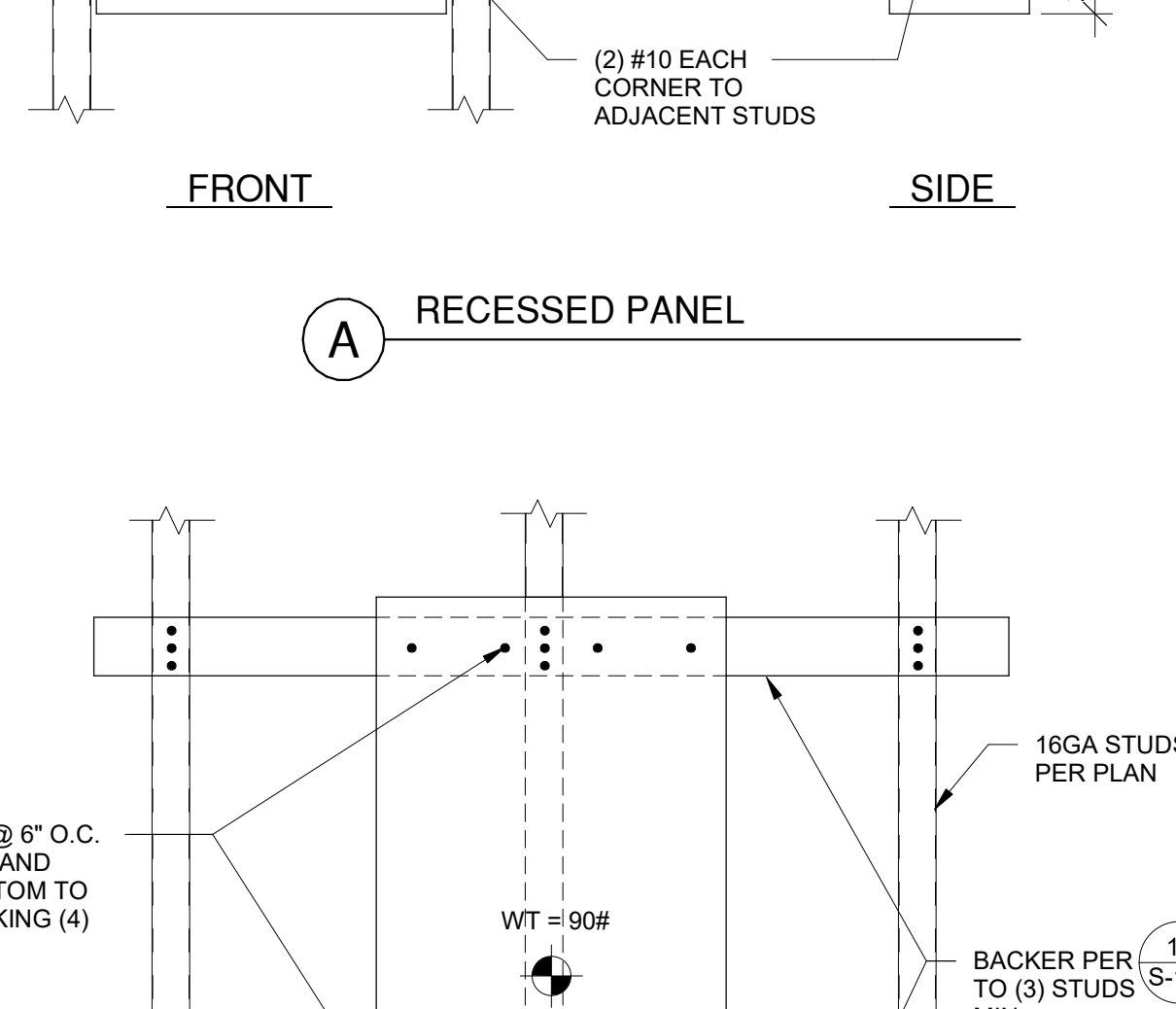
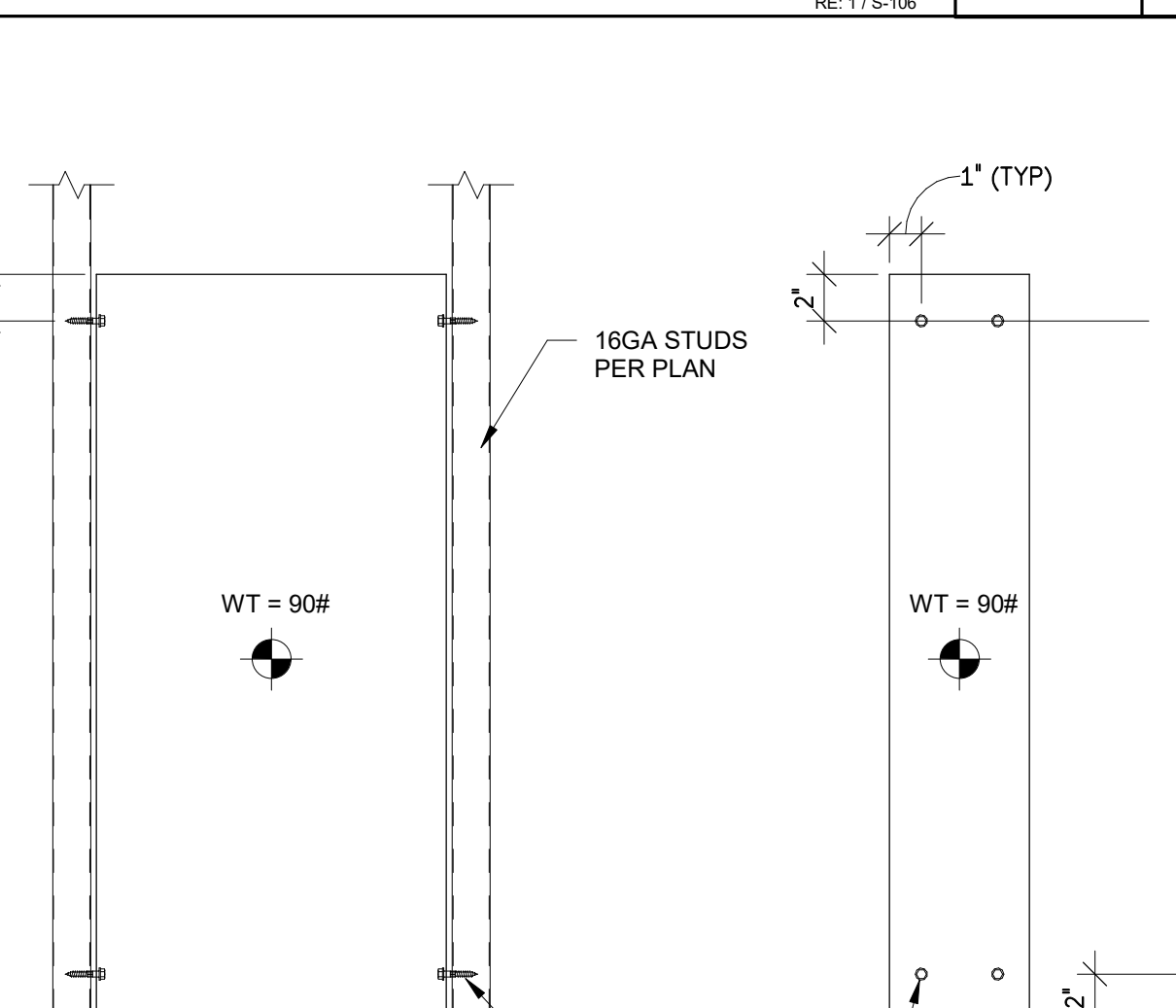
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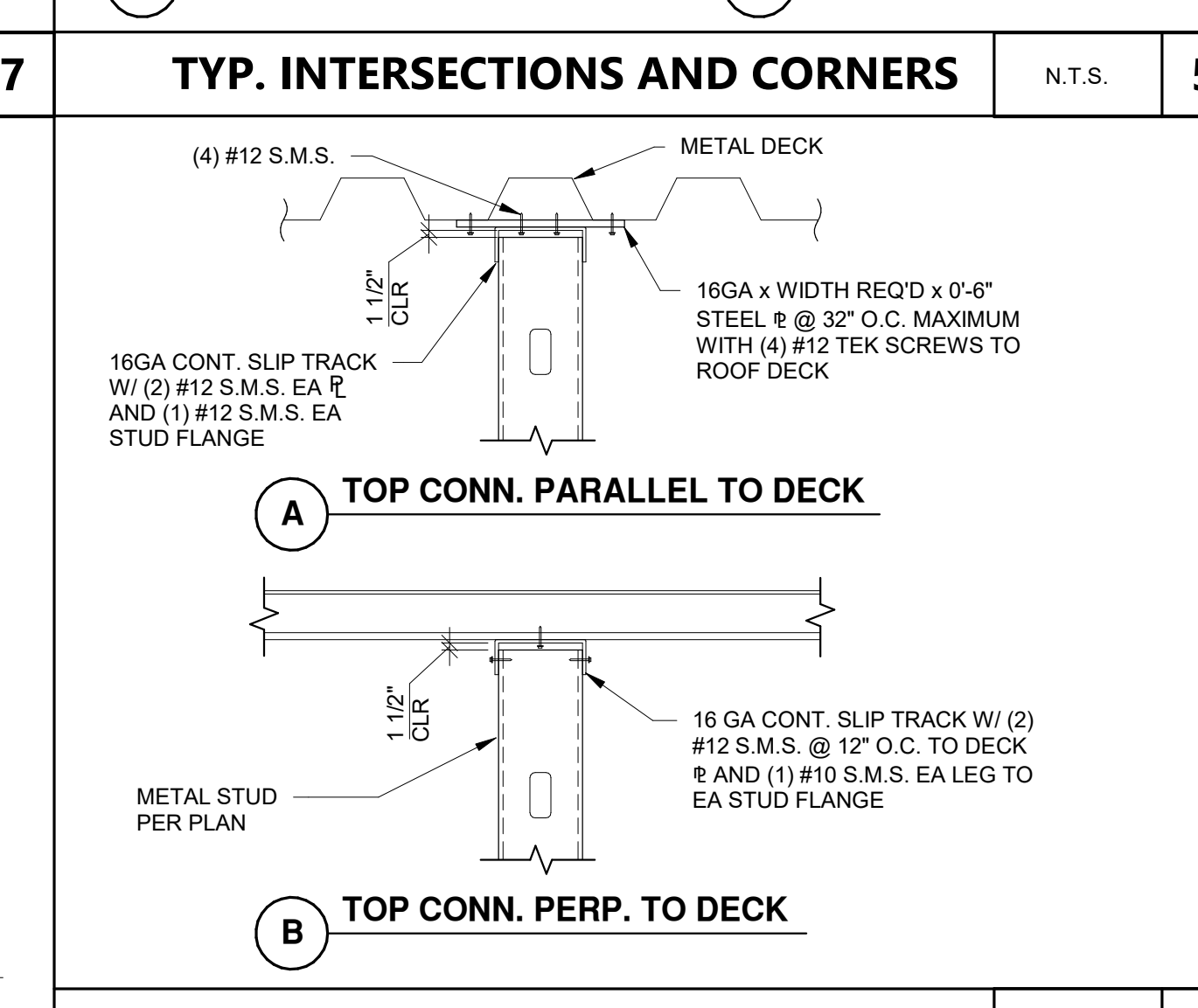
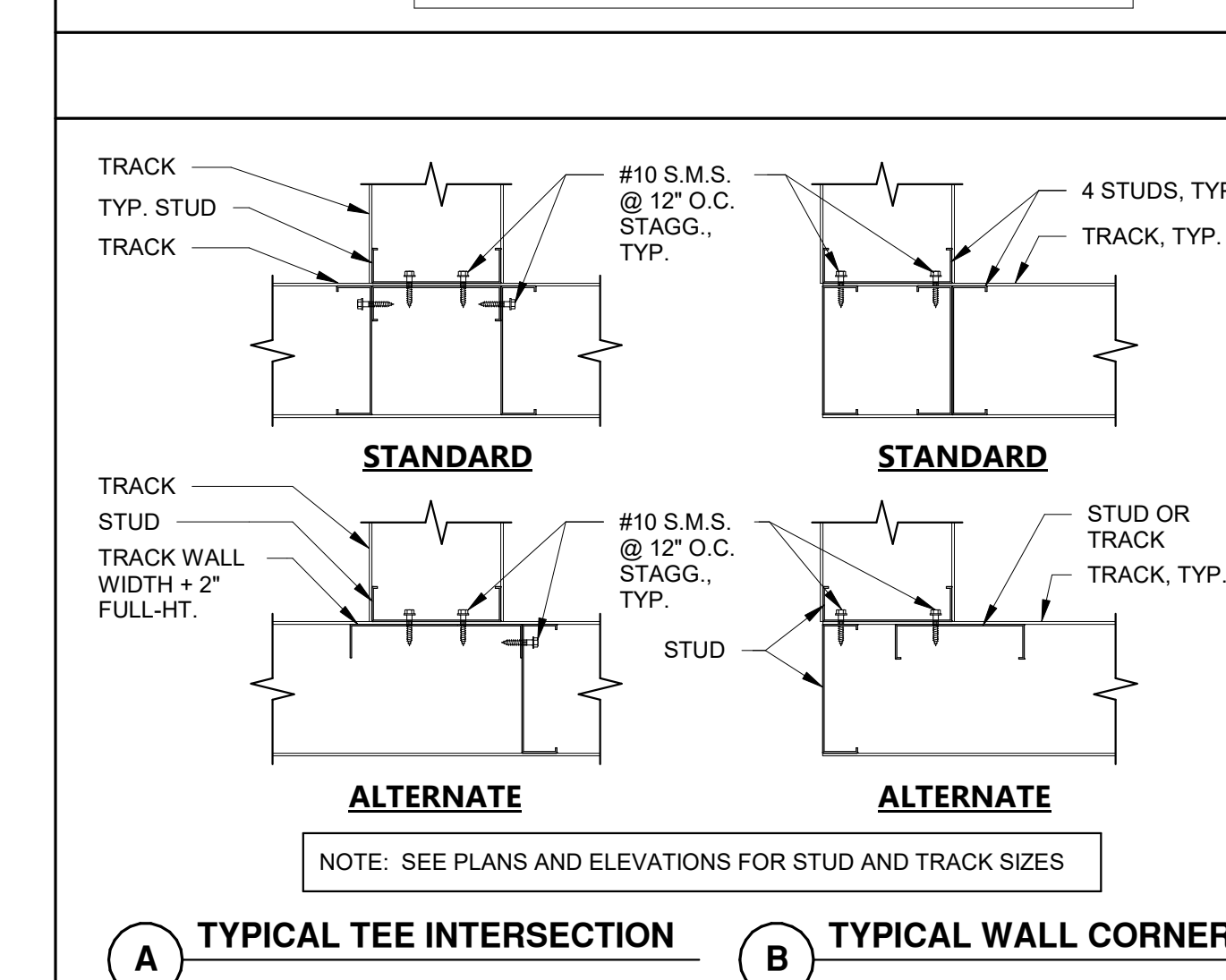
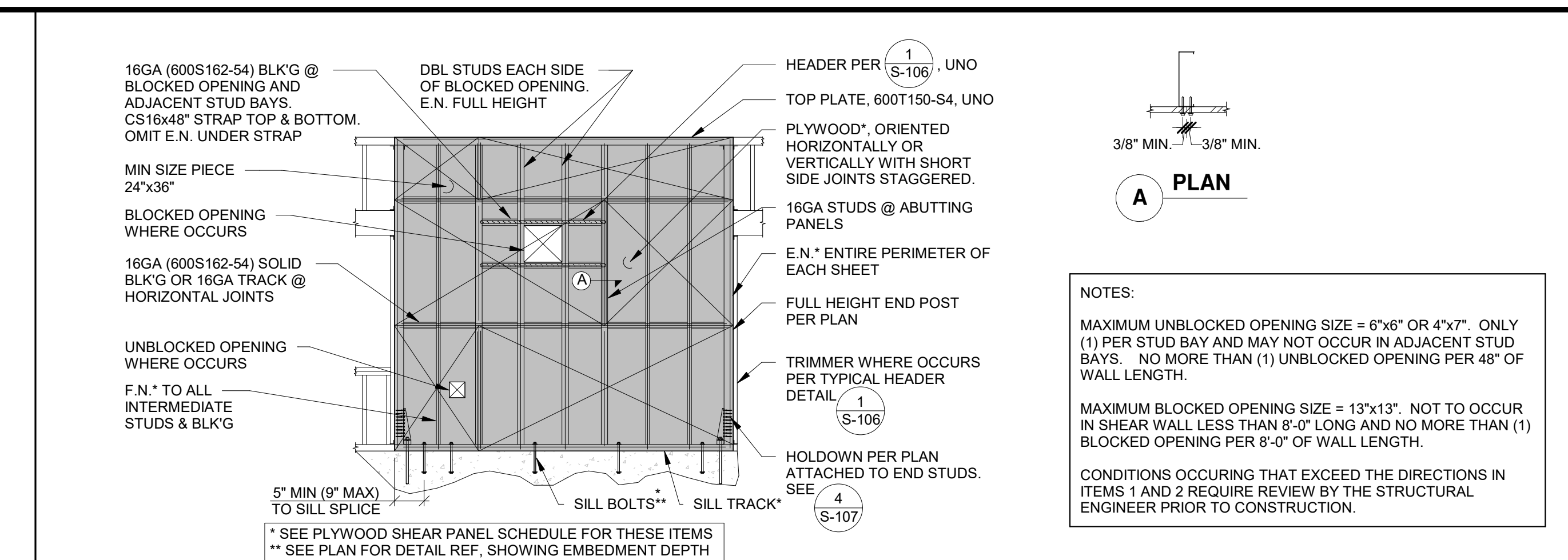
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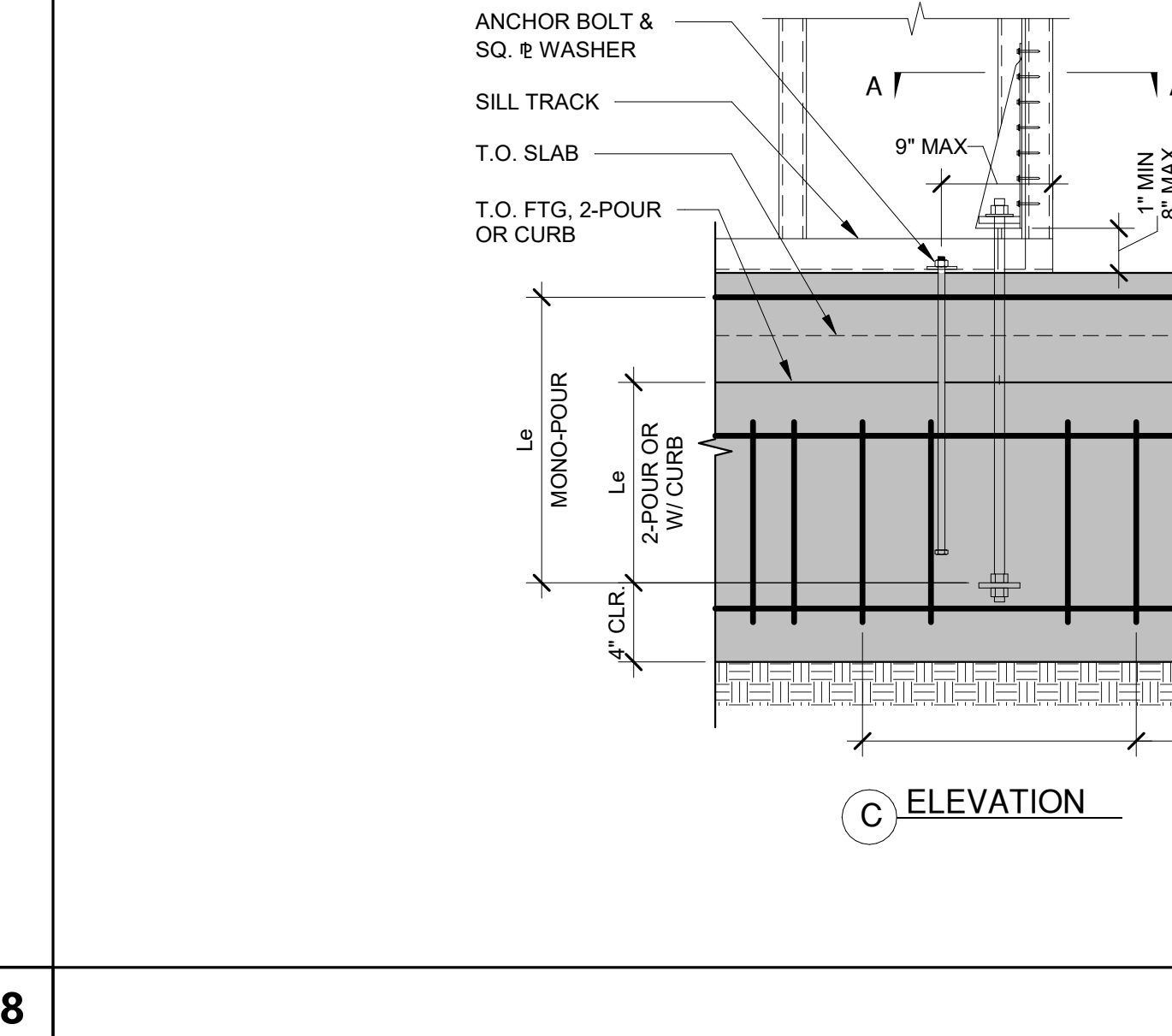
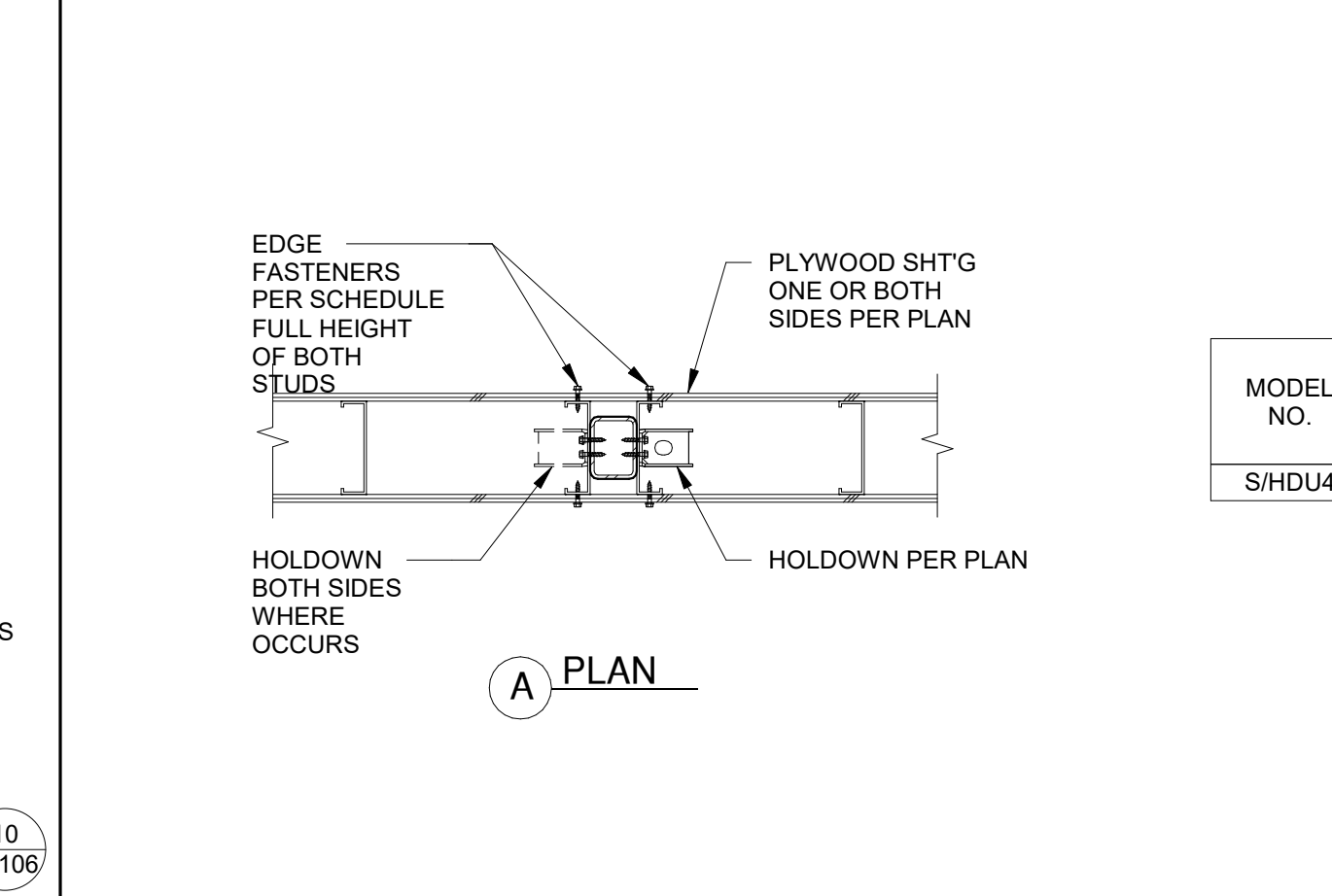
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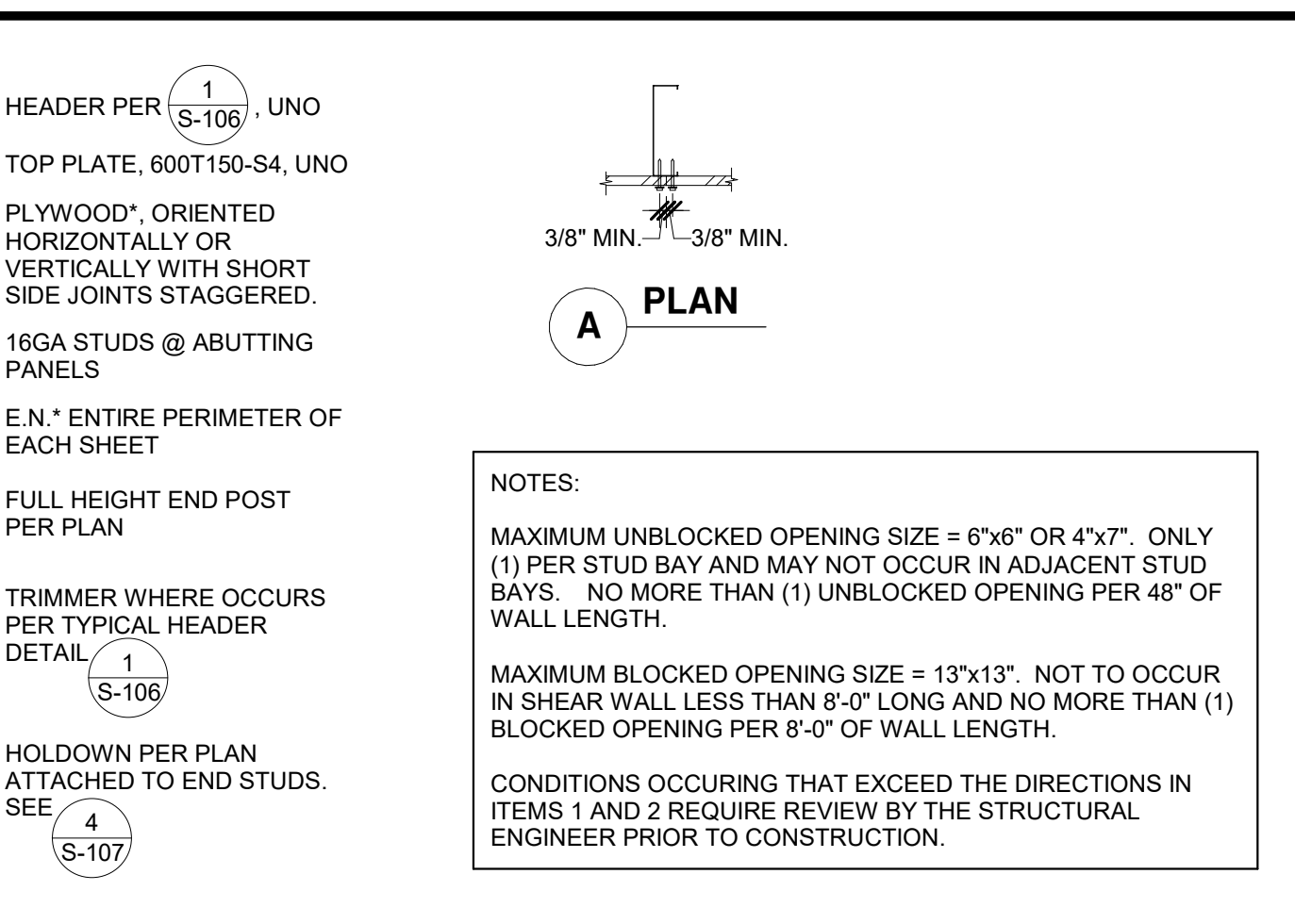
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TYP. INTERSECTIONS AND CORNERS N.T.S. 5



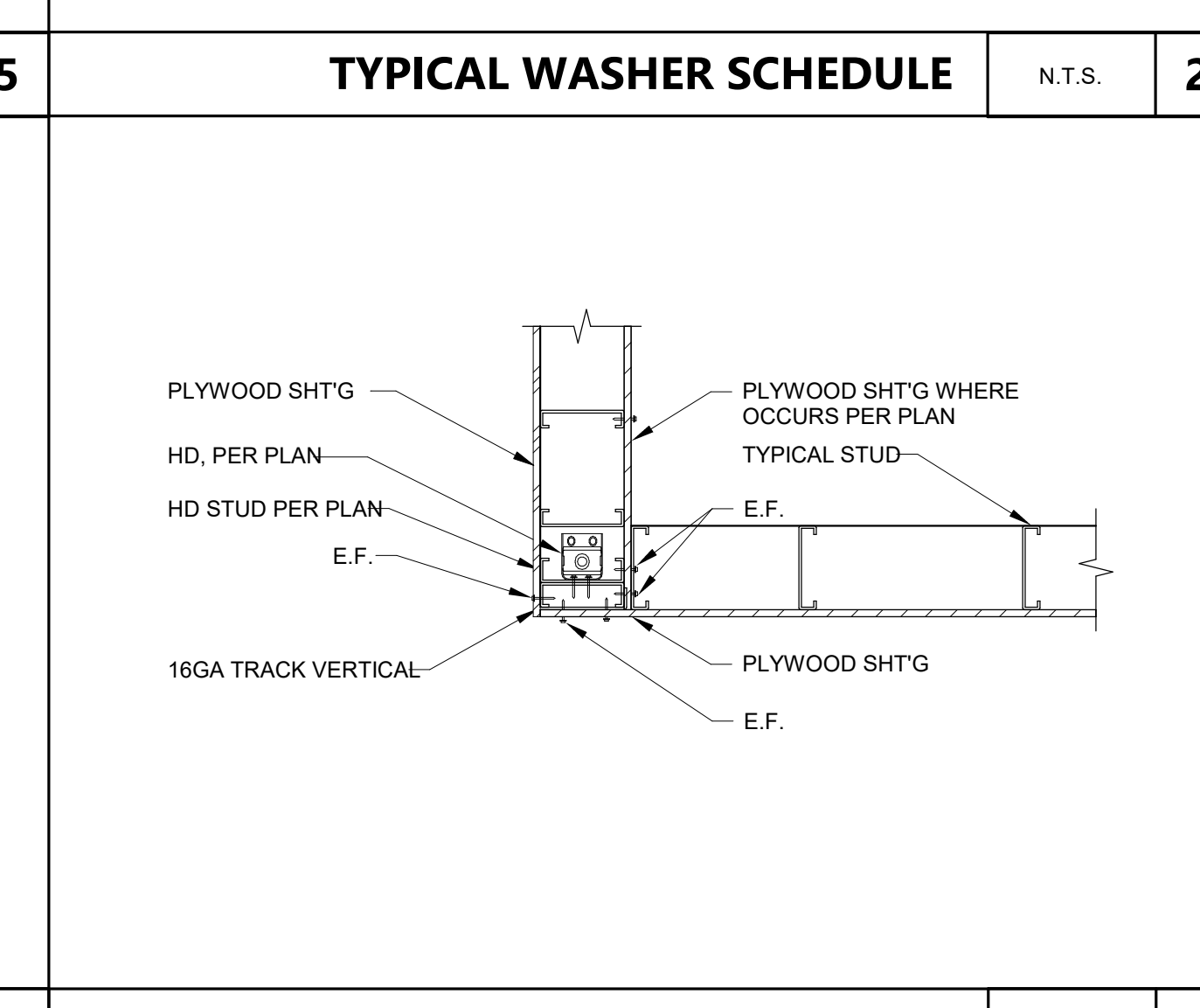
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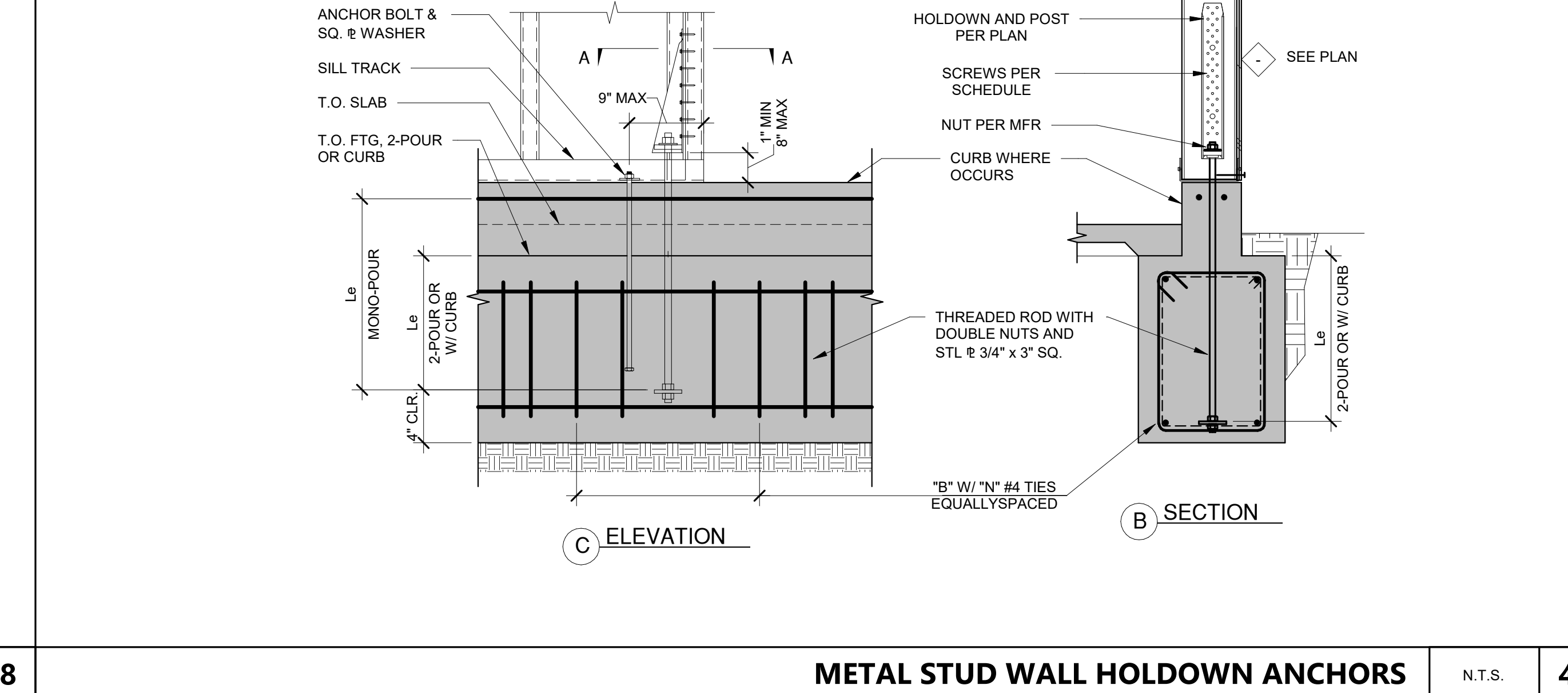
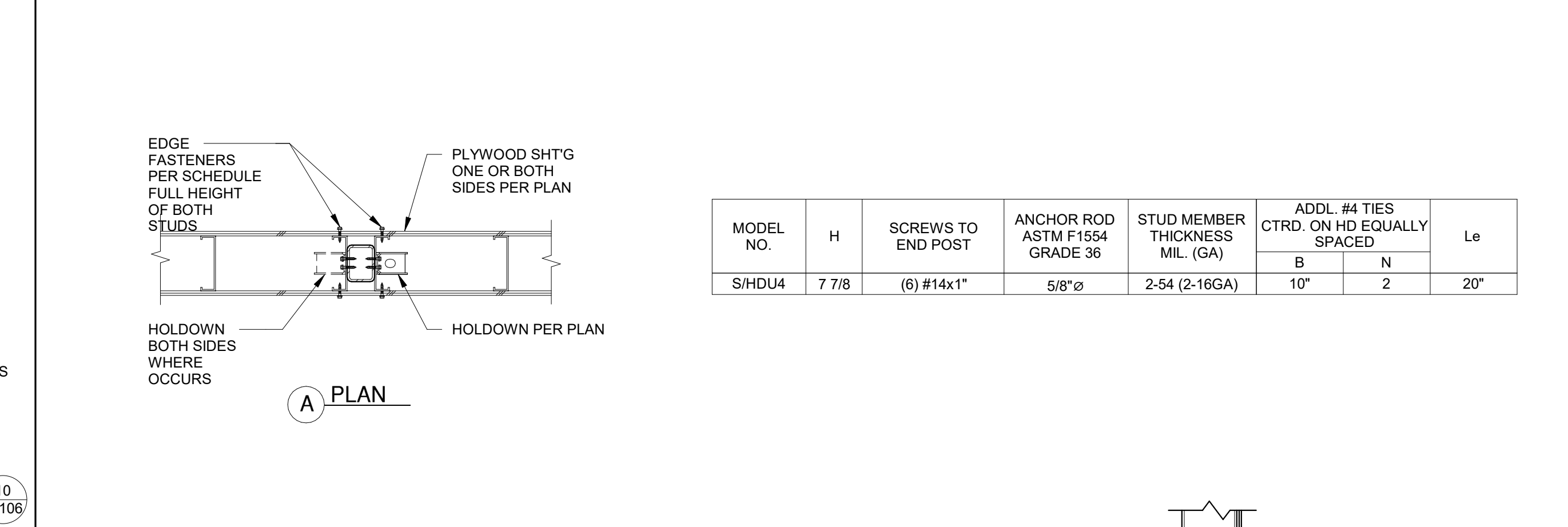
WASHER SCHEDULE

BOLT SIZE	MALLEABLE IRON WASHER	HEAVY PLATE WASHER*	STANDARD CUT WASHER
1/2"Ø	2-1/2"Ø x 1/4"	2" x 2" x 3/16"	1-3/8"Ø x 3/32"
5/8"Ø	2-3/4"Ø x 5/16"	2-1/2" x 2-1/2" x 1/4"	1-3/4"Ø x 1/8"
3/4"Ø	3"Ø x 7/16"	2-3/4" x 2-3/4" x 5/16"	2"Ø x 5/32"
7/8"Ø	3-1/2"Ø x 7/16"	3" x 3" x 5/16"	2-1/4"Ø x 1/64"
1"Ø	4"Ø x 1/2"	3-1/2" x 3-1/2" x 3/8"	2-1/2"Ø x 1/64"

* USE UNDER NUT OF ALL ANCHOR BOLTS



SHEAR WALL / HD AT CORNER N.T.S. 3



METAL STUD WALL HOLDOWN ANCHORS N.T.S. 4

AGENCY APPROVAL

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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Approved by: *[Signature]* 07/19/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Stufel

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REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
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1499 San Luis Drive
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SHEET TITLE

TYPICAL METAL STUD DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

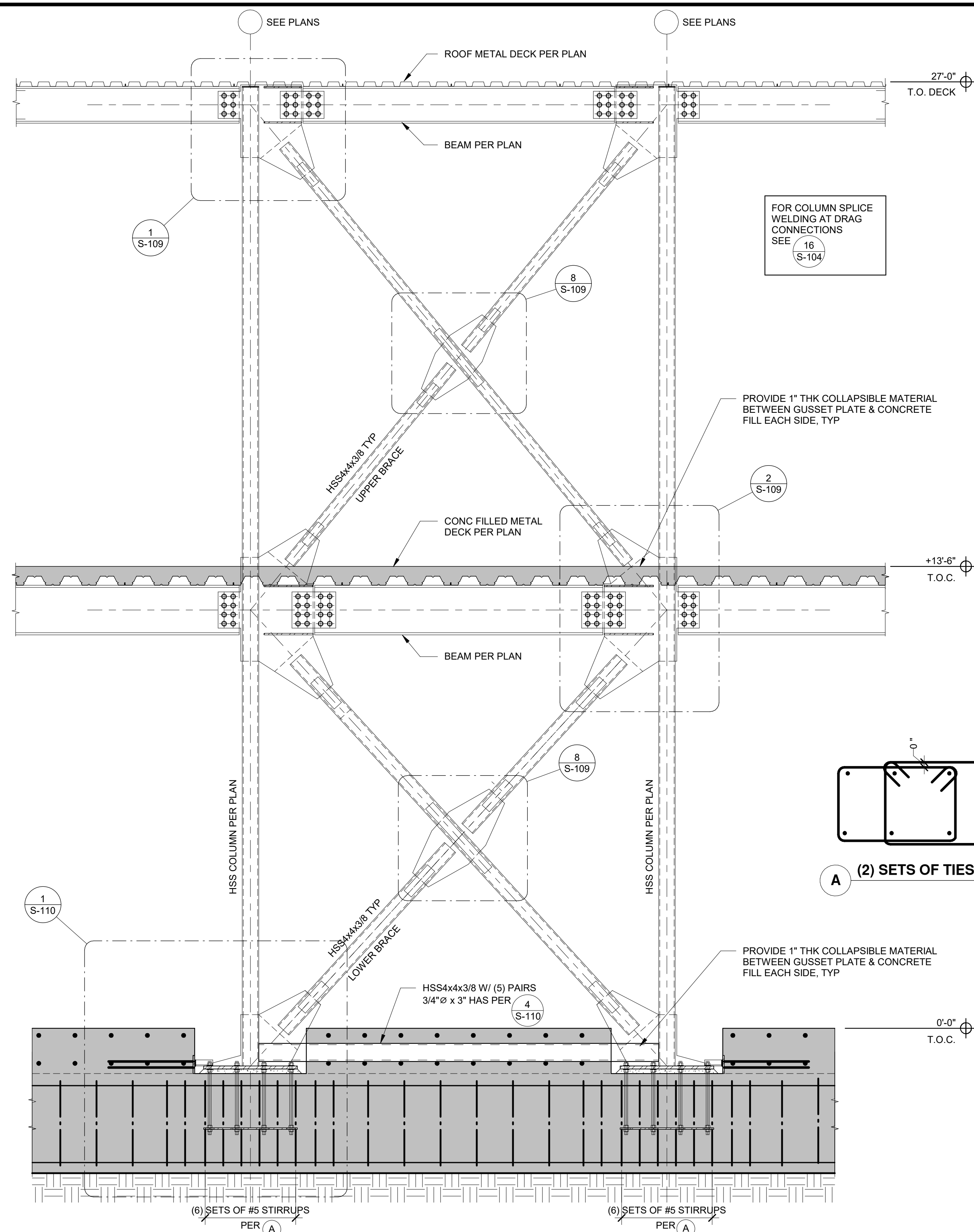
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S-107

DATE: APRIL 20, 2023

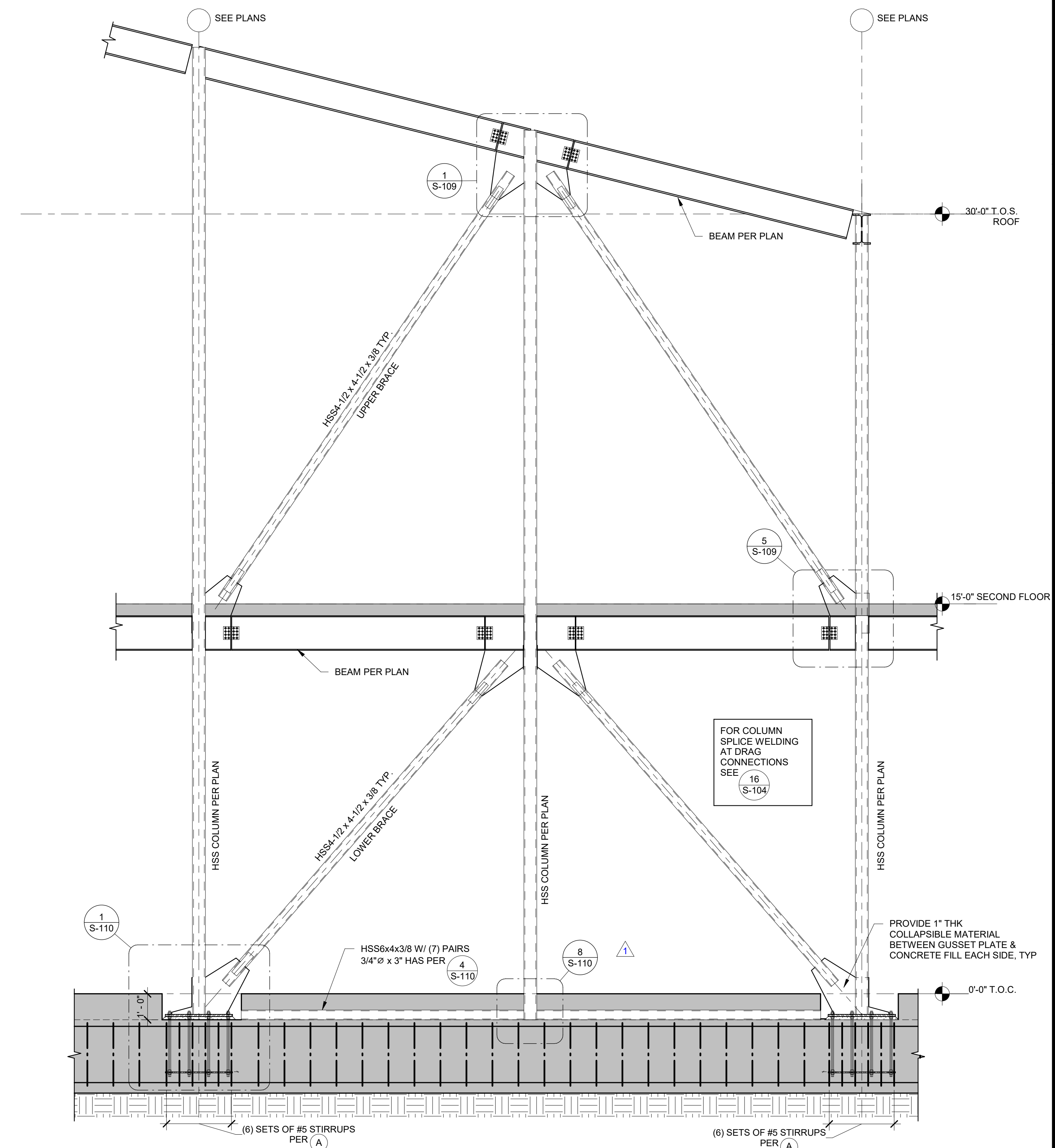
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X-BRACED FRAME TYPICAL ELEVATION N.T.S. **2**

X-BRACE FRAME SCHEDULE (ALL DIMENSIONS IN INCHES)				
GUSSET GEOMETRY DIMENSIONS	FOUNDATION	SECOND FLOOR		ROOF
BRACED FRAME B.3 BF-B.3	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.500	16.000	16.500	14.625
GUSSET VERT. LENGTH, L _b =	15.375	5.875	8.375	10.500
BRACED FRAME B.4 BF-B.4	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.500	16.000	16.500	14.625
GUSSET VERT. LENGTH, L _b =	15.375	5.875	8.375	10.500
BRACED FRAME E.3 BF-E.3	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.500	16.000	16.500	14.625
GUSSET VERT. LENGTH, L _b =	15.375	5.875	8.375	10.500
BRACED FRAME E.4 BF-E.4	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.500	16.000	16.500	14.625
GUSSET VERT. LENGTH, L _b =	15.375	5.875	8.375	10.500



DIAGONAL FRAME TYPICAL ELEVATION N.T.S. **1**

DIAGONAL FRAME SCHEDULE (ALL DIMENSIONS IN INCHES)				
GUSSET GEOMETRY DIMENSIONS	FOUNDATION	SECOND FLOOR		ROOF
BRACED FRAME 2.D BF-2.D	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	8.875	17.250	16.875	16.250
GUSSET VERT. LENGTH, L _b =	16.875	7.250	14.500	15.500
BRACED FRAME 3.D BF-3.D	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	8.825	16.750	16.500	15.875
GUSSET VERT. LENGTH, L _b =	17.250	7.625	15.250	16.250
BRACED FRAME 5.D BF-5.D	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	8.875	17.250	16.875	16.250
GUSSET VERT. LENGTH, L _b =	16.875	7.250	14.500	15.500
BRACED FRAME 6.D BF-6.D	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	8.875	17.250	16.875	16.250
GUSSET VERT. LENGTH, L _b =	16.875	7.250	14.500	15.500
BRACED FRAME 6.B BF-B.6	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.375	13.125	15.000	13.875
GUSSET VERT. LENGTH, L _b =	22.250	12.625	18.500	20.625
BRACED FRAME E.6 BF-E.6	BELOW BEAM	BELOW BEAM	ABOVE BEAM	BELOW BEAM
GUSSET HORIZ. LENGTH, L _a =	7.375	13.125	15.000	13.875
GUSSET VERT. LENGTH, L _b =	22.250	12.625	18.500	20.625

NOTE: BF-B.6 & BF-E.6 ARE NOT AT SLOPED ROOF CONDITIONS LIKE SHOWN AT RIGHT.

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Approved by: *DS* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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05/30/2023

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SHEET TITLE

BRACED FRAME TYPICAL ELEVATIONS

DRAWN BY: JHR JOB NUMBER: 21179.01

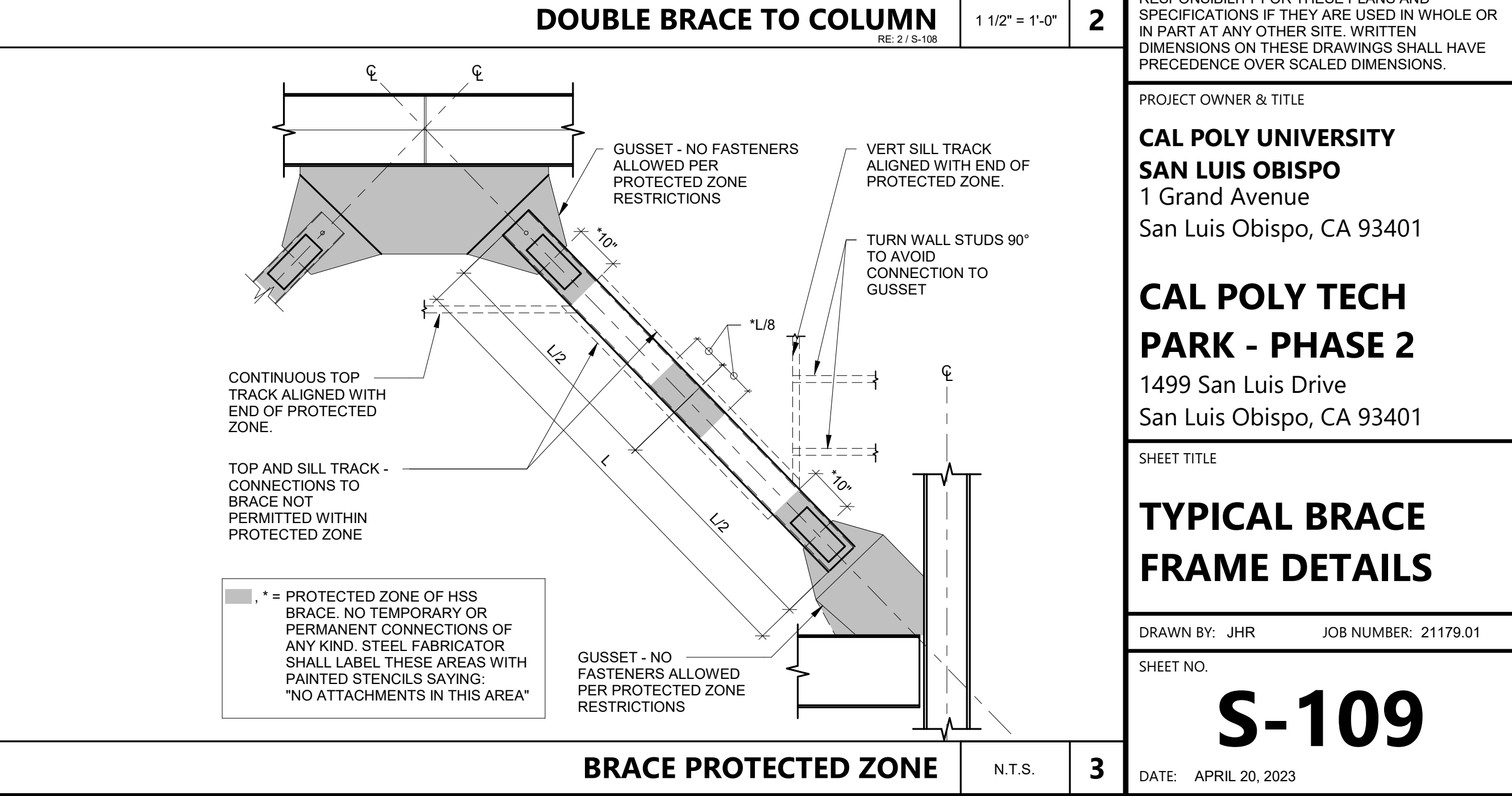
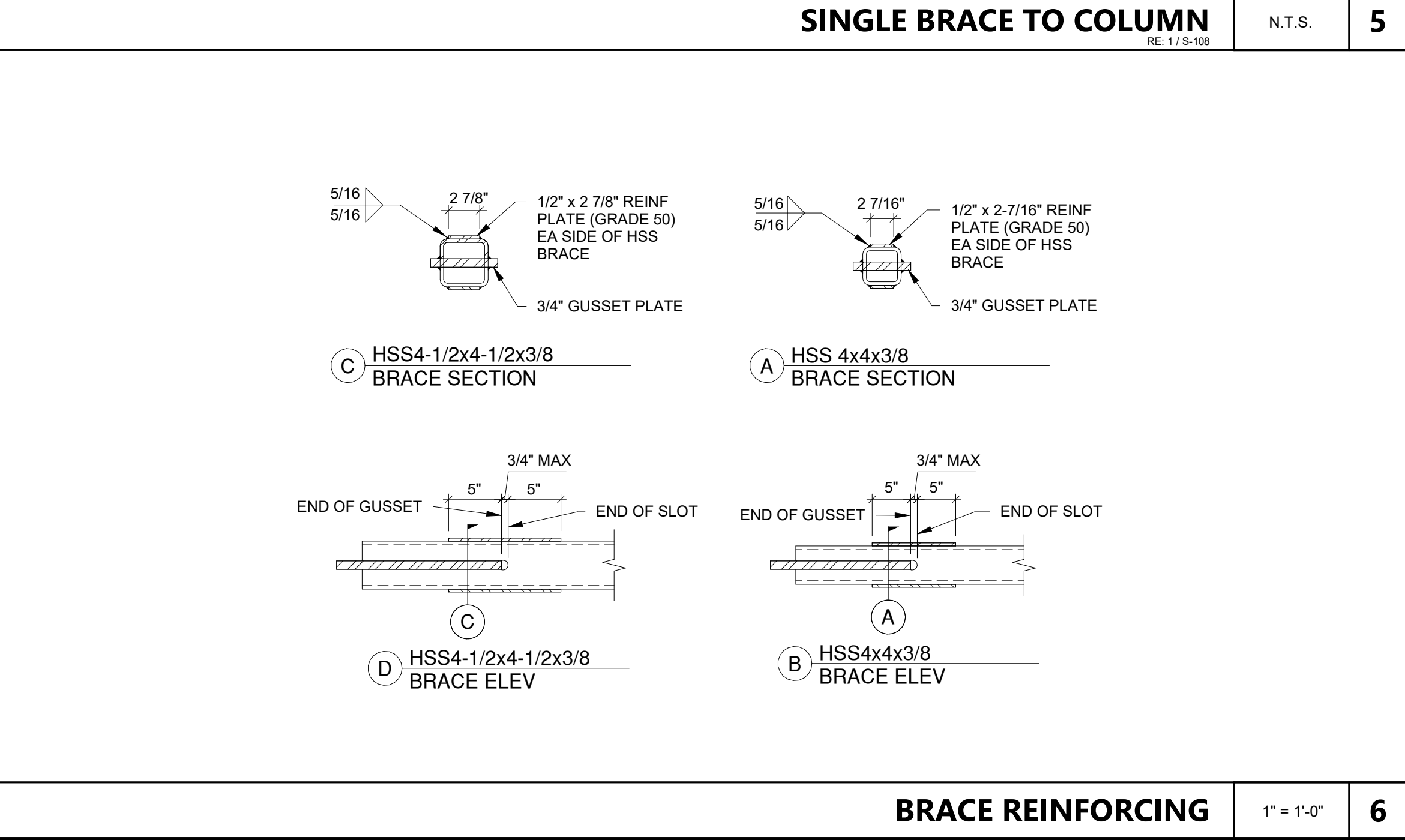
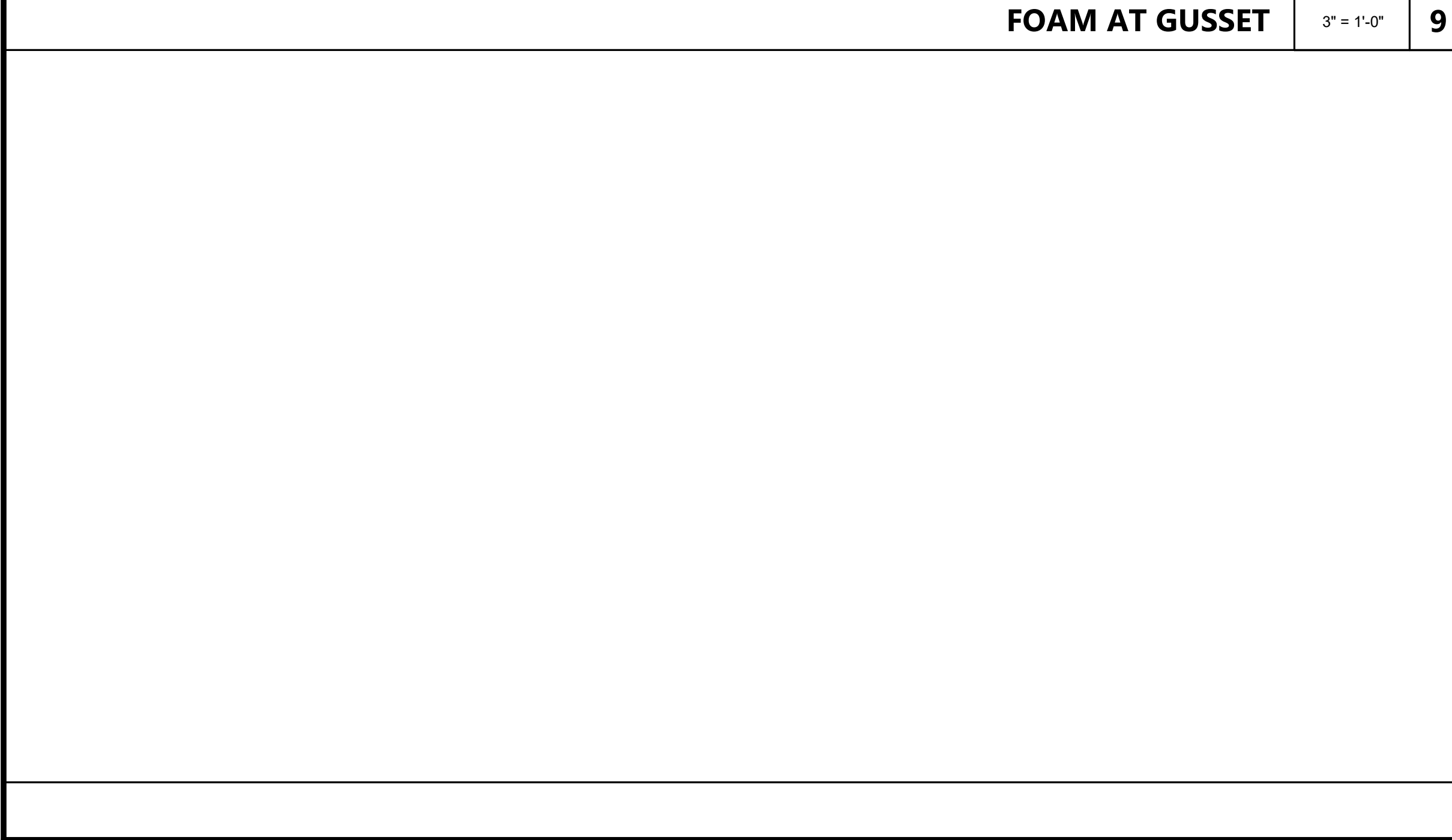
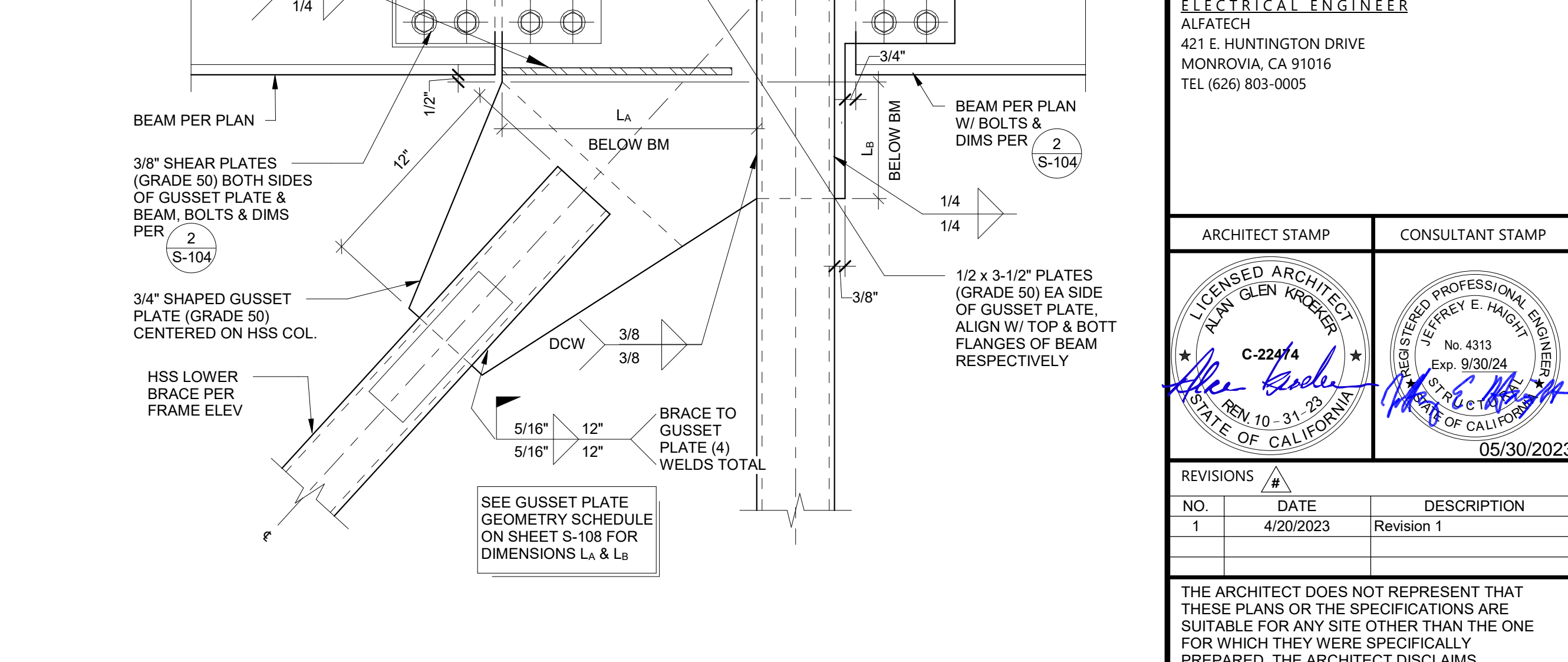
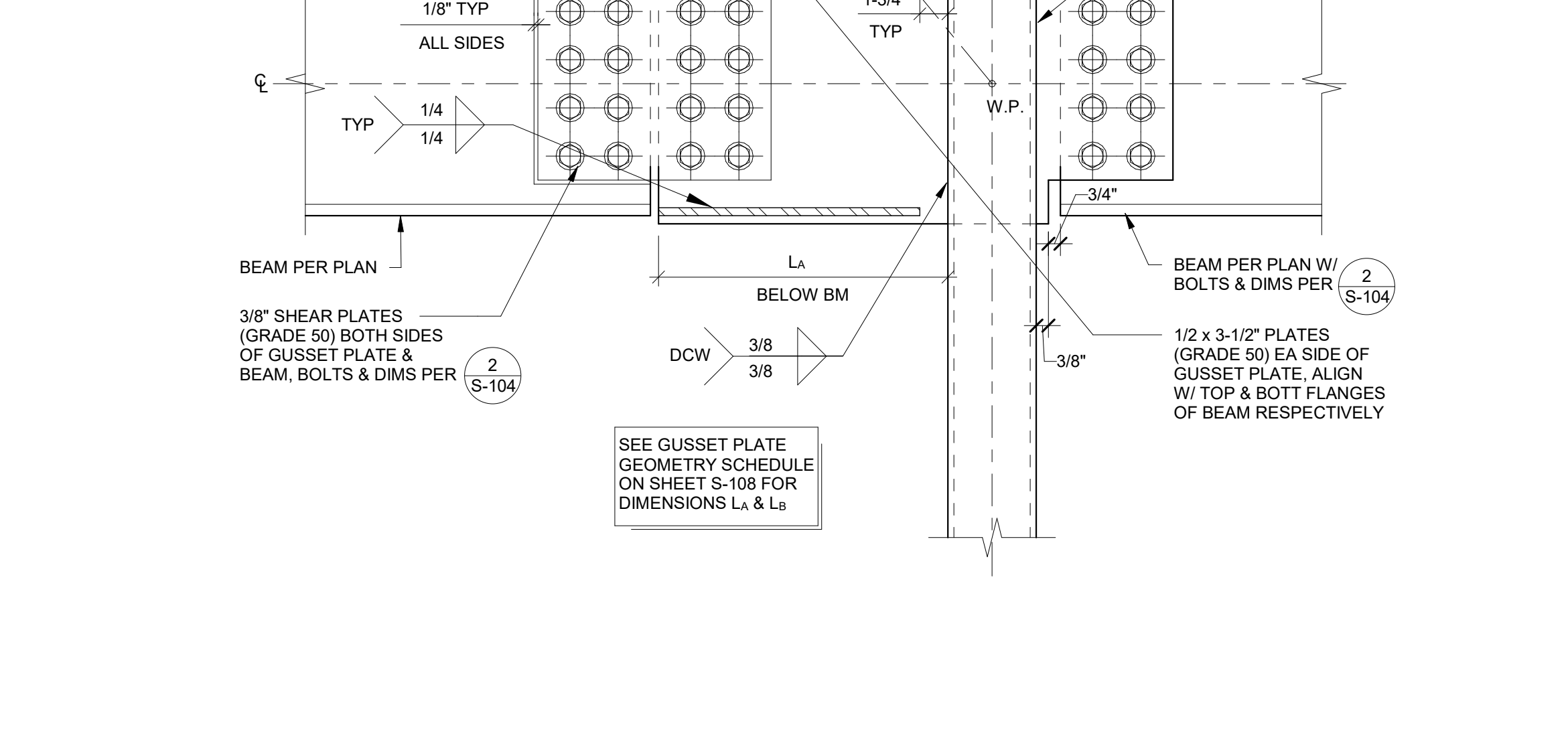
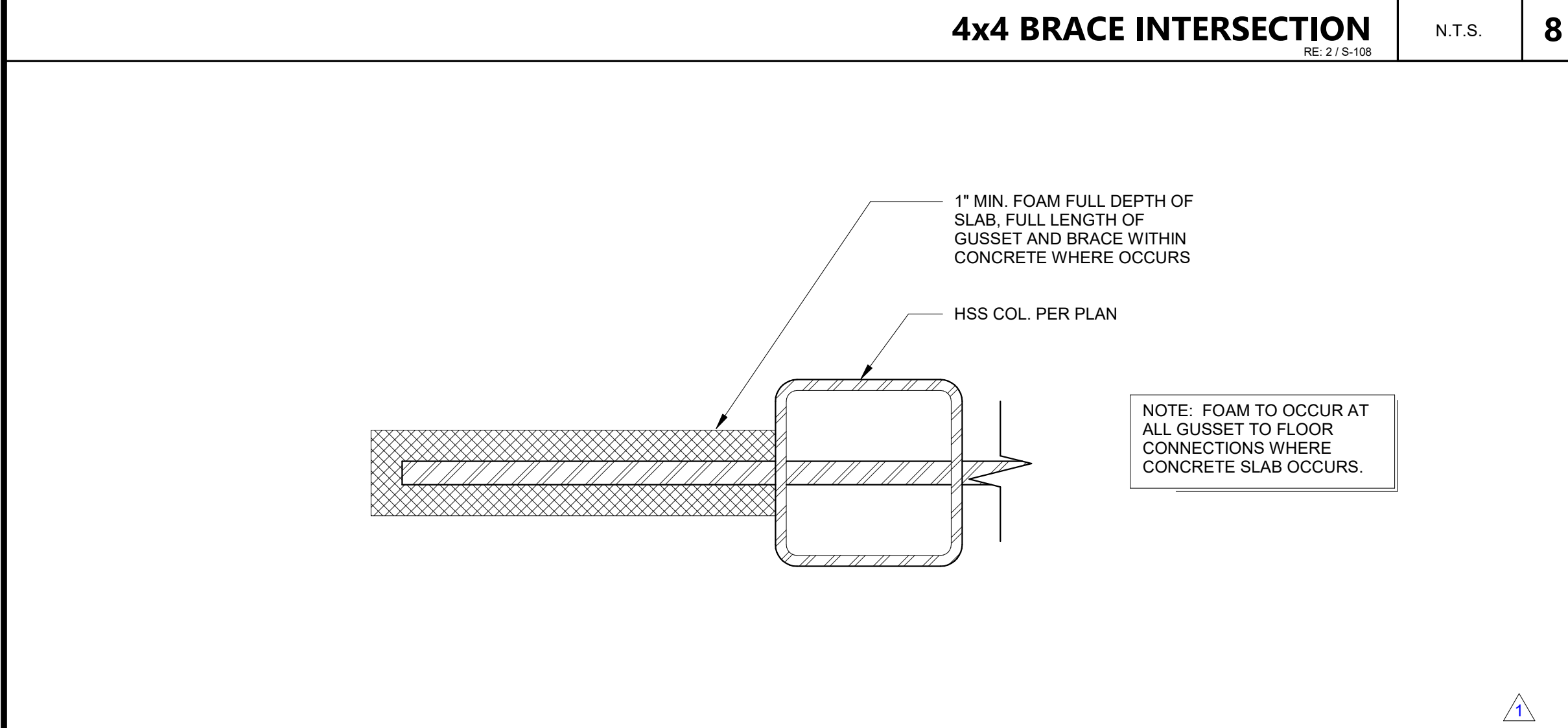
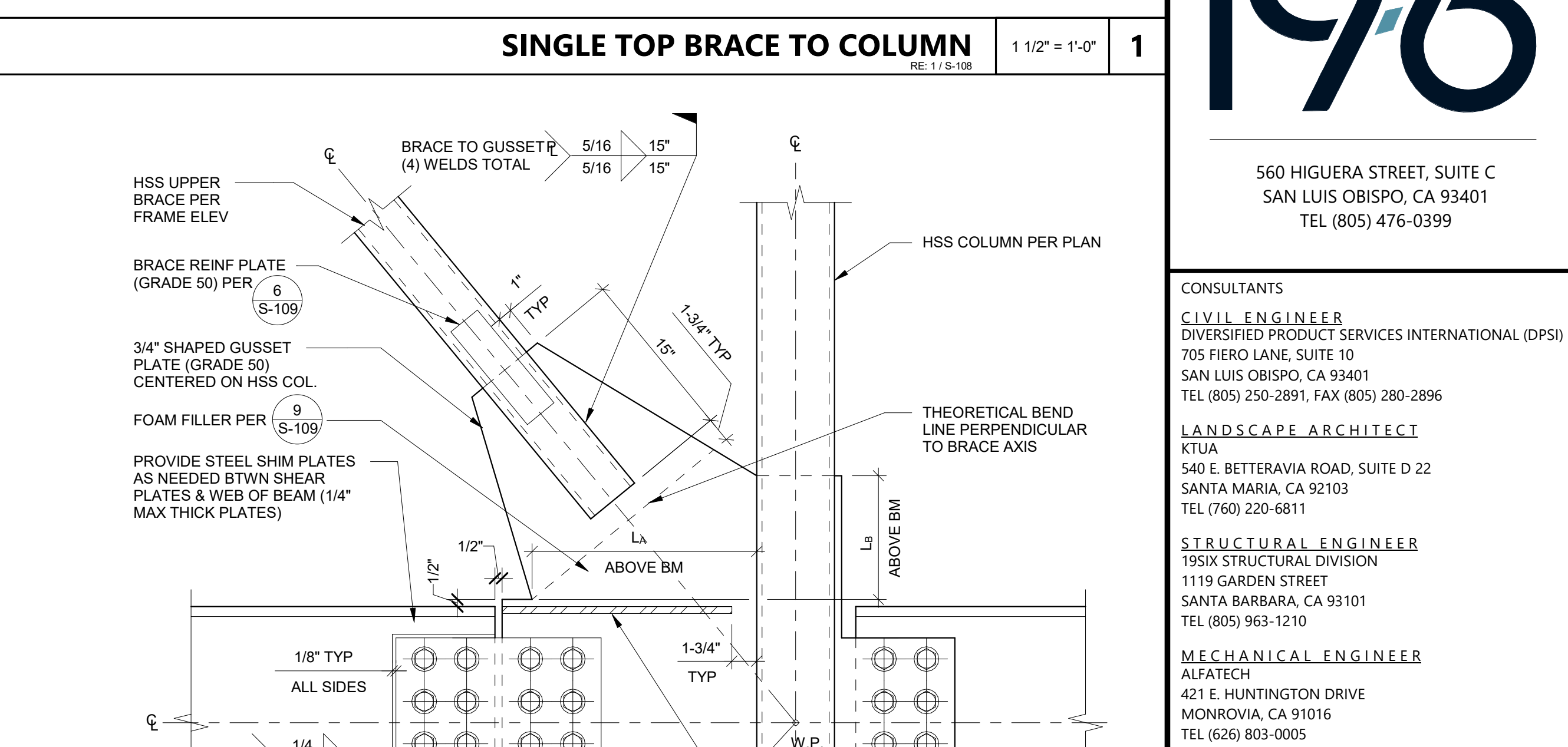
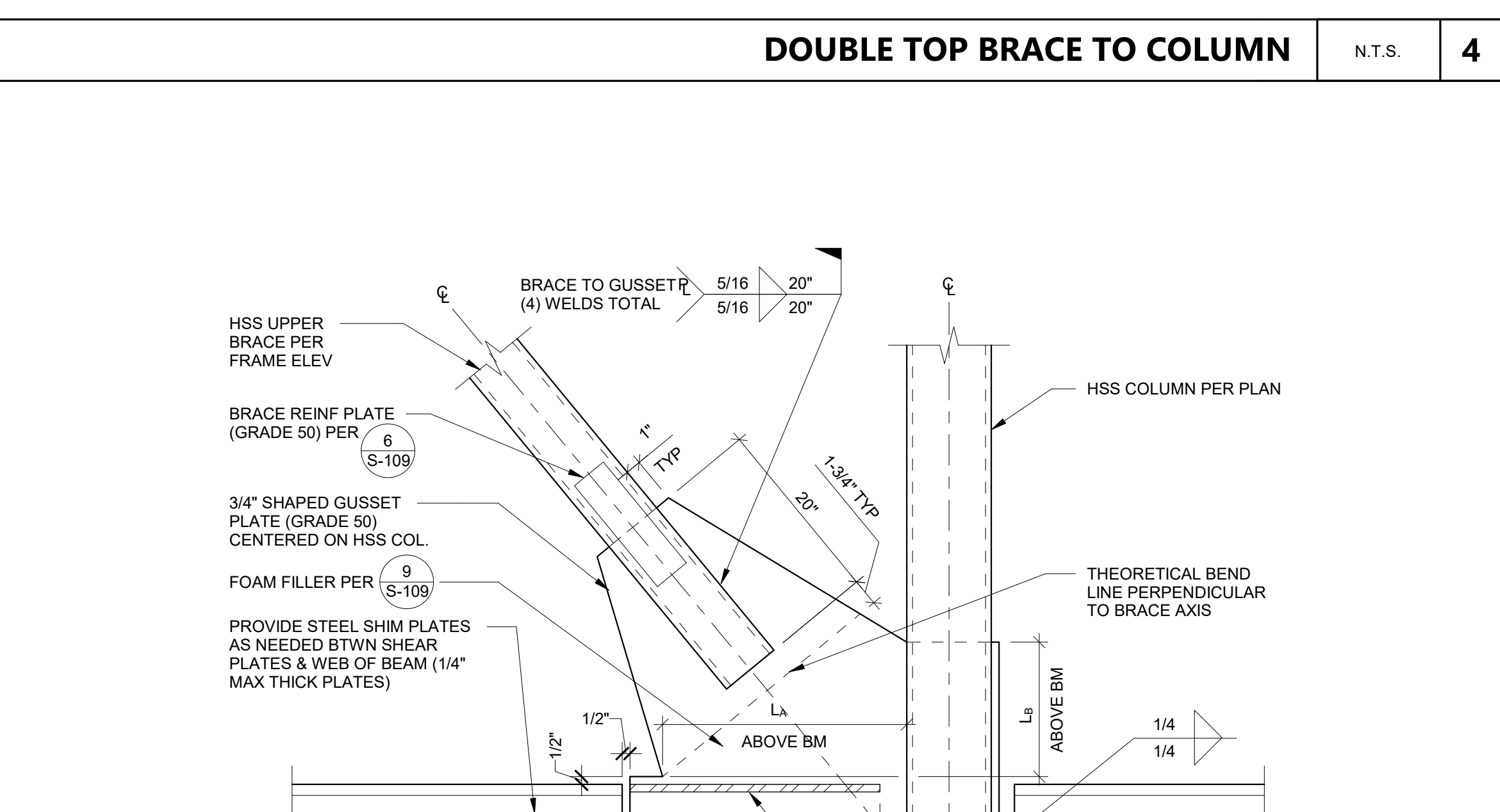
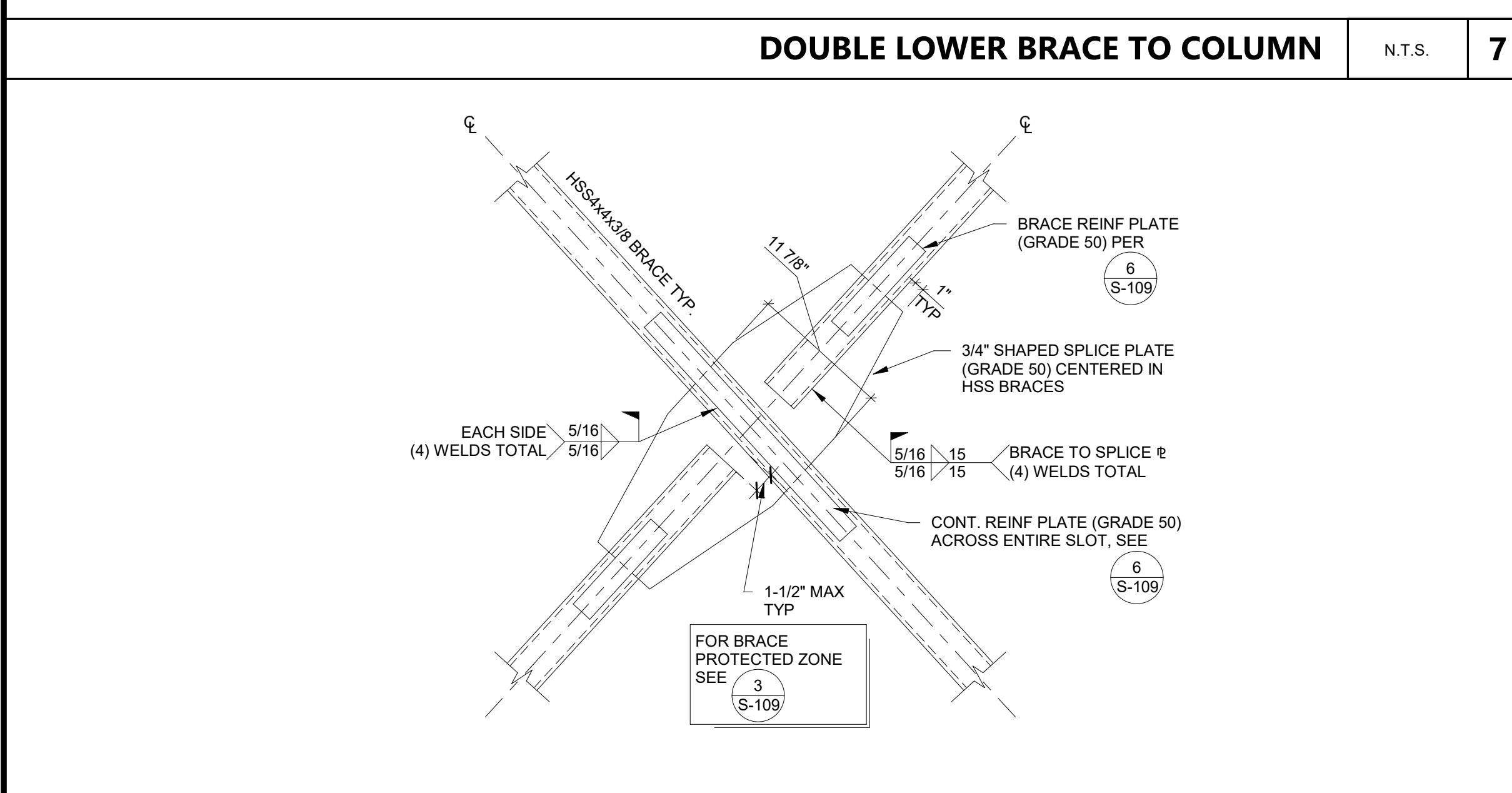
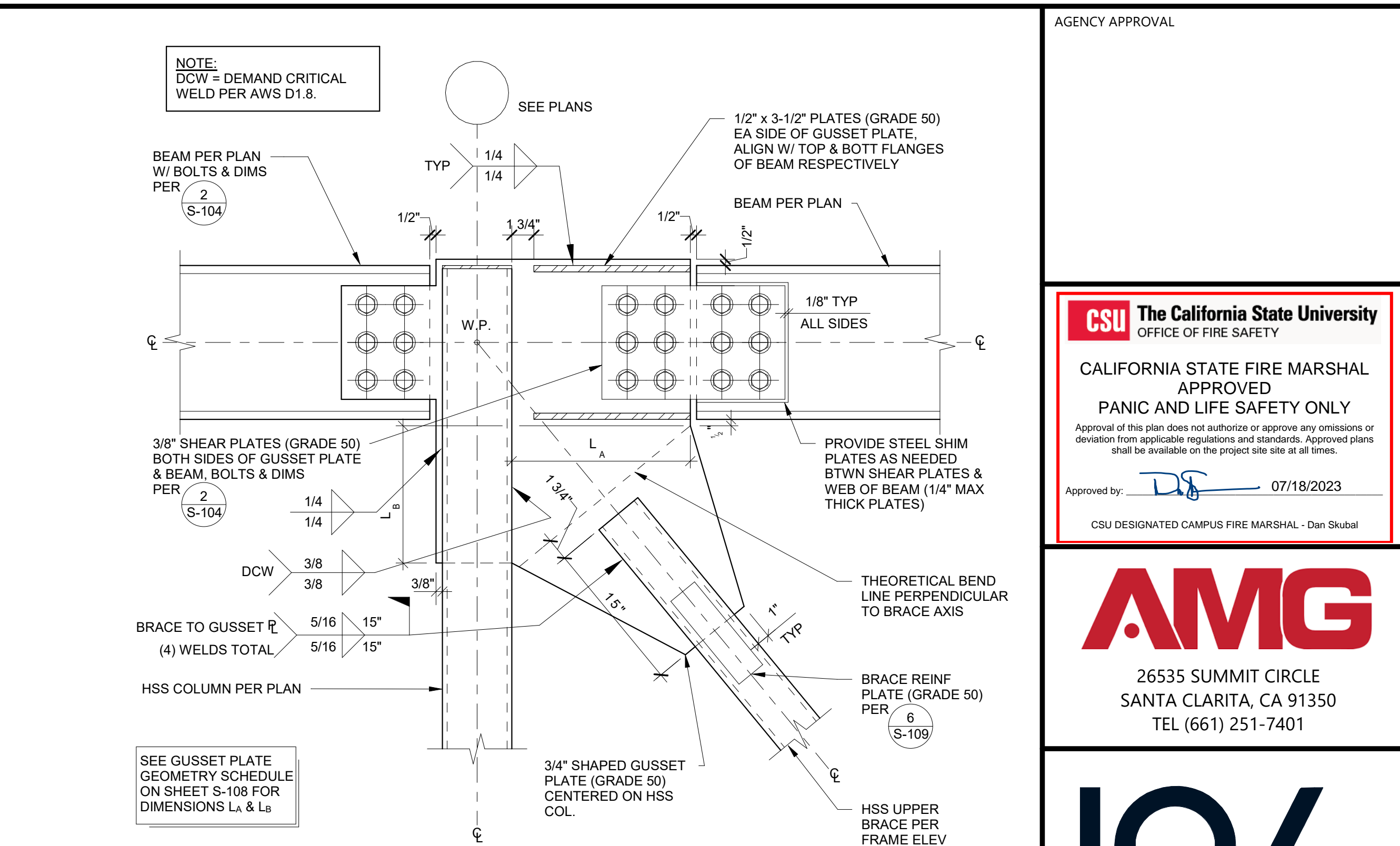
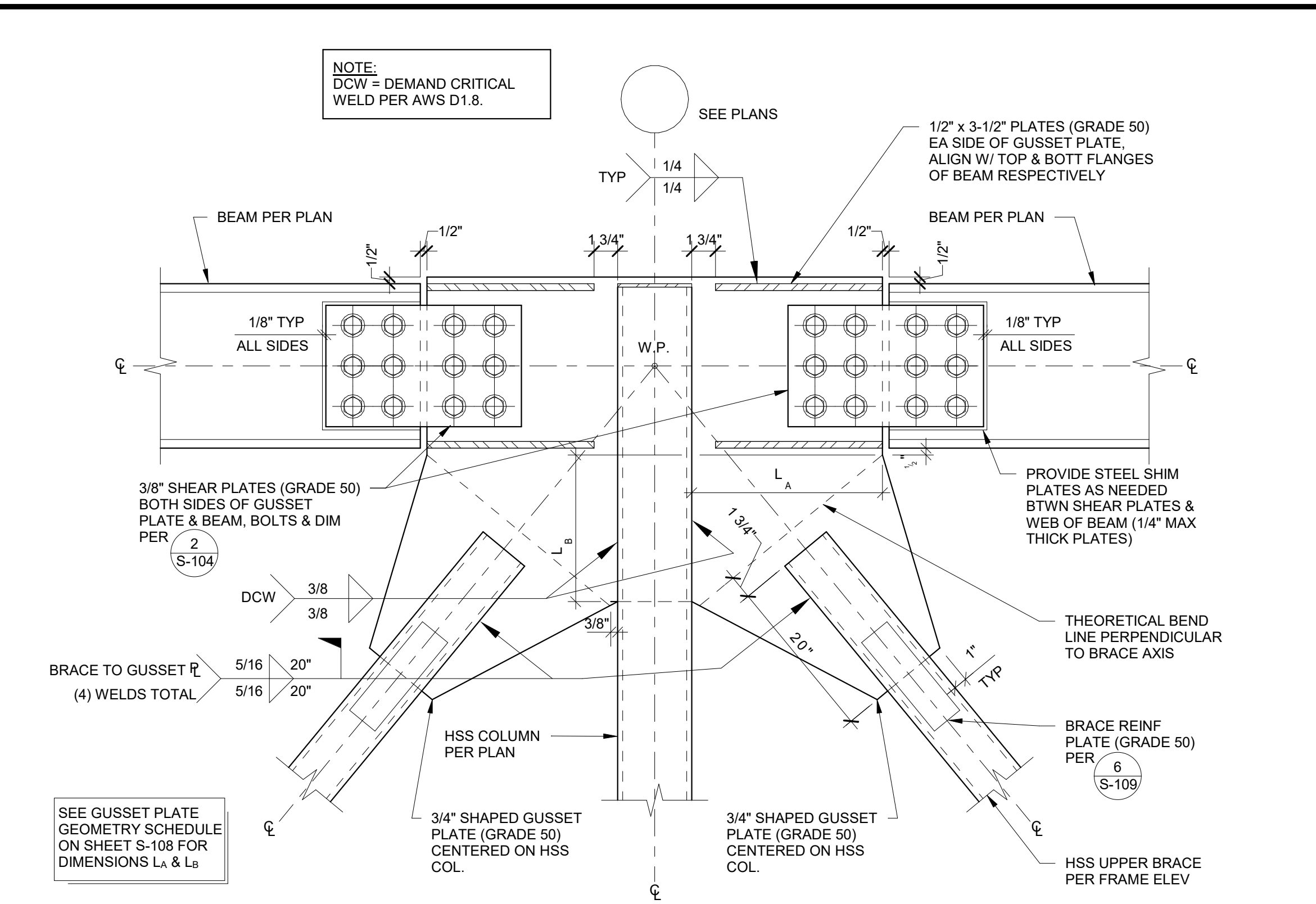
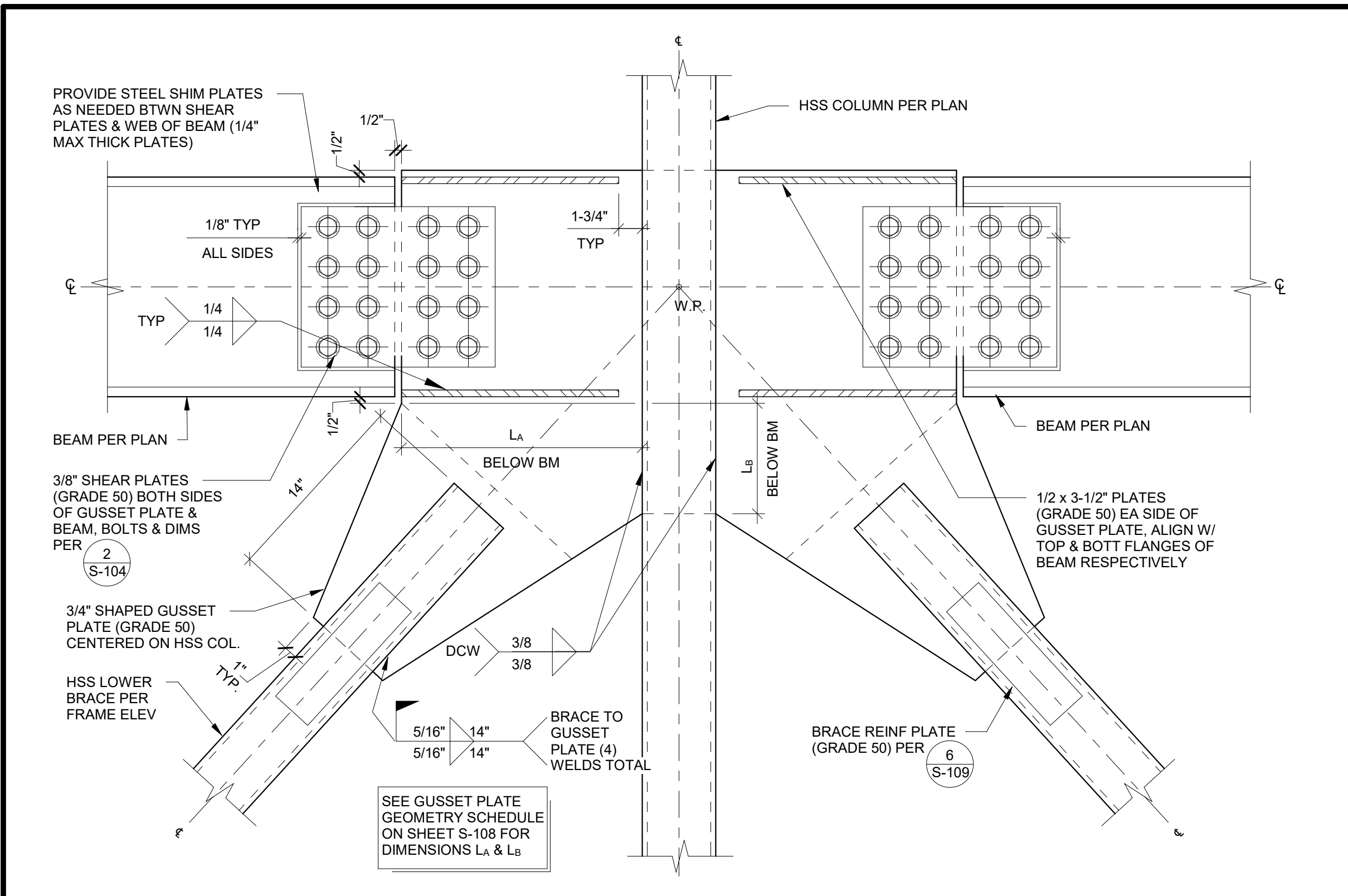
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DATE: APRIL 20, 2023

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Approved by: *DS* 07/18/2023
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05/30/2023

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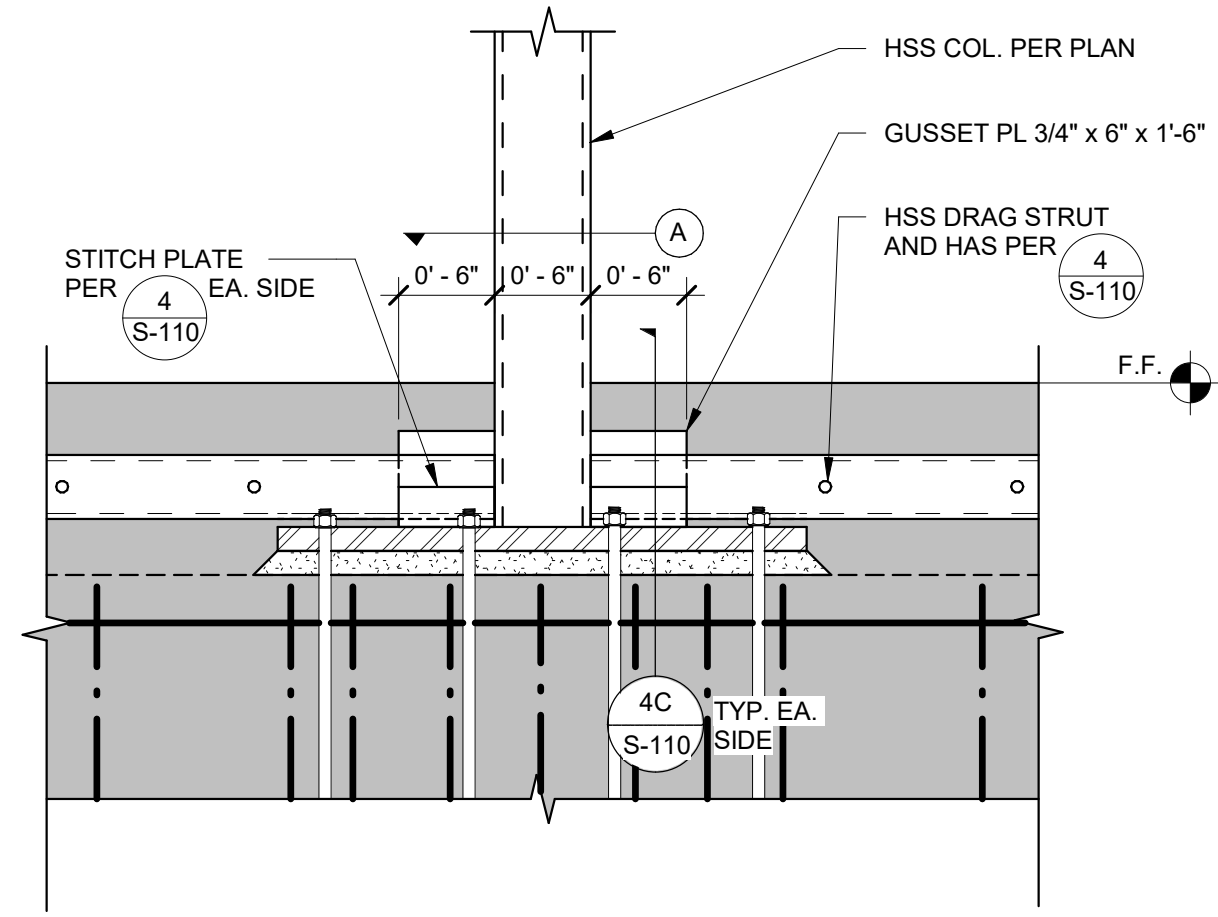
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TYPICAL BRACE FRAME DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

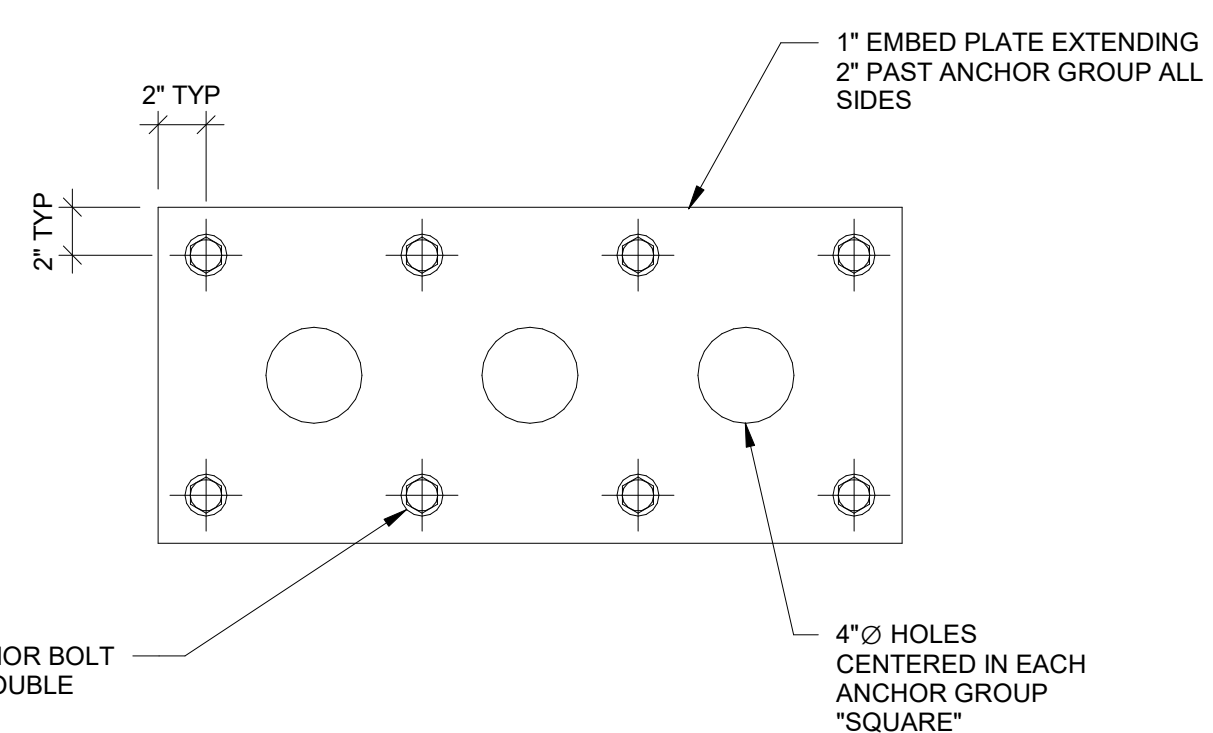
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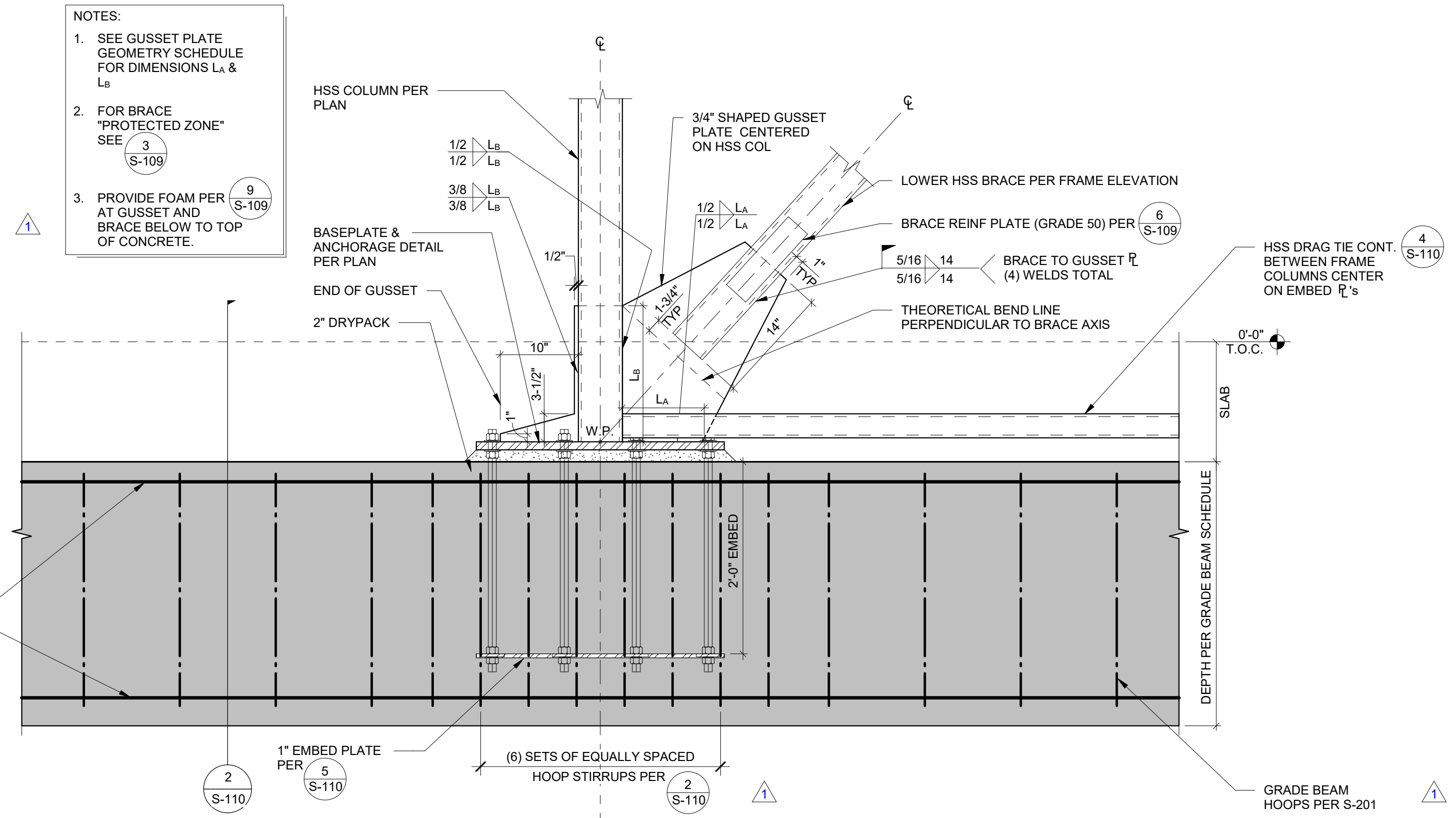
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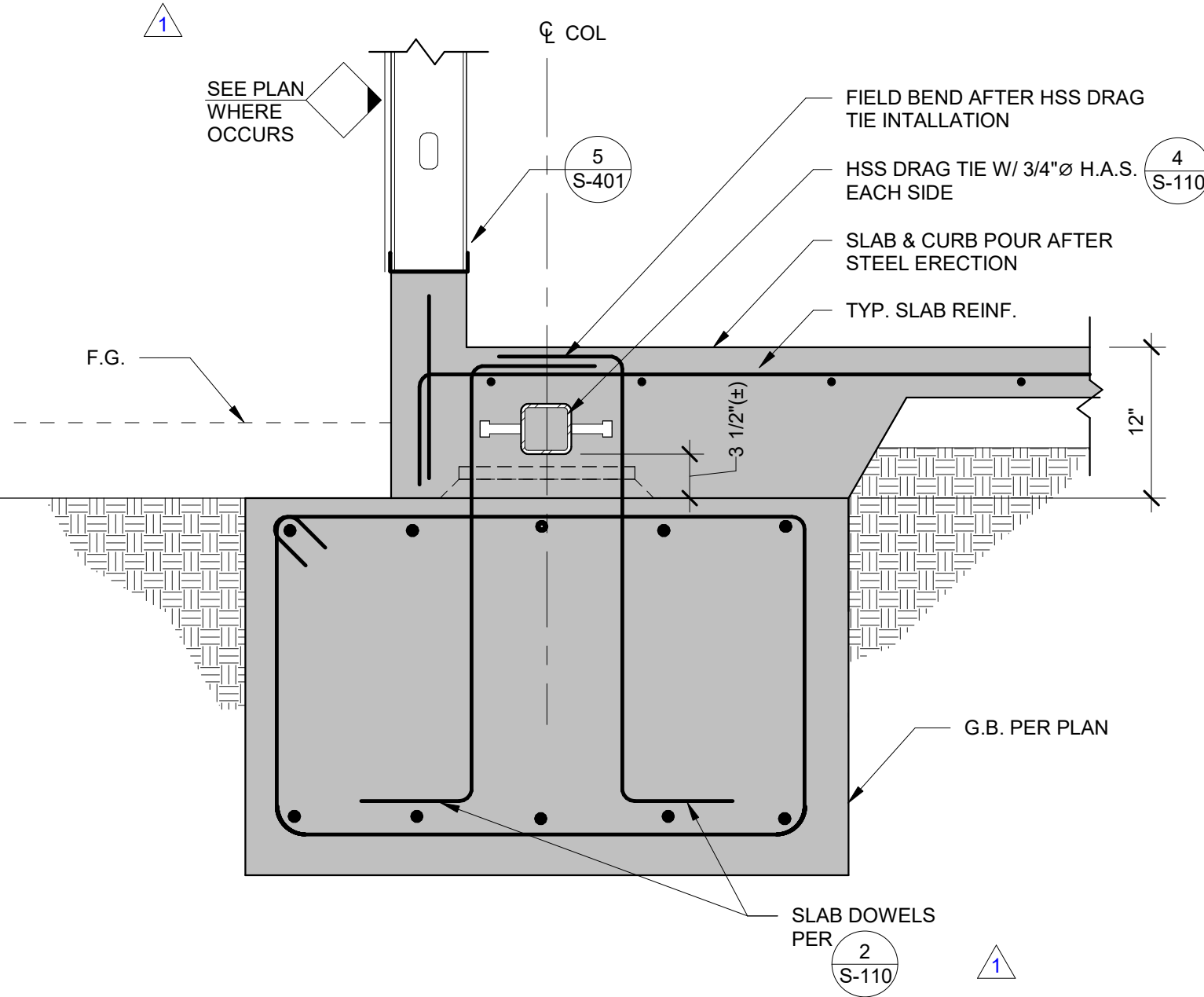
SPLICE AT MIDDLE FRAME COLUMN 1" = 1'-0" 8



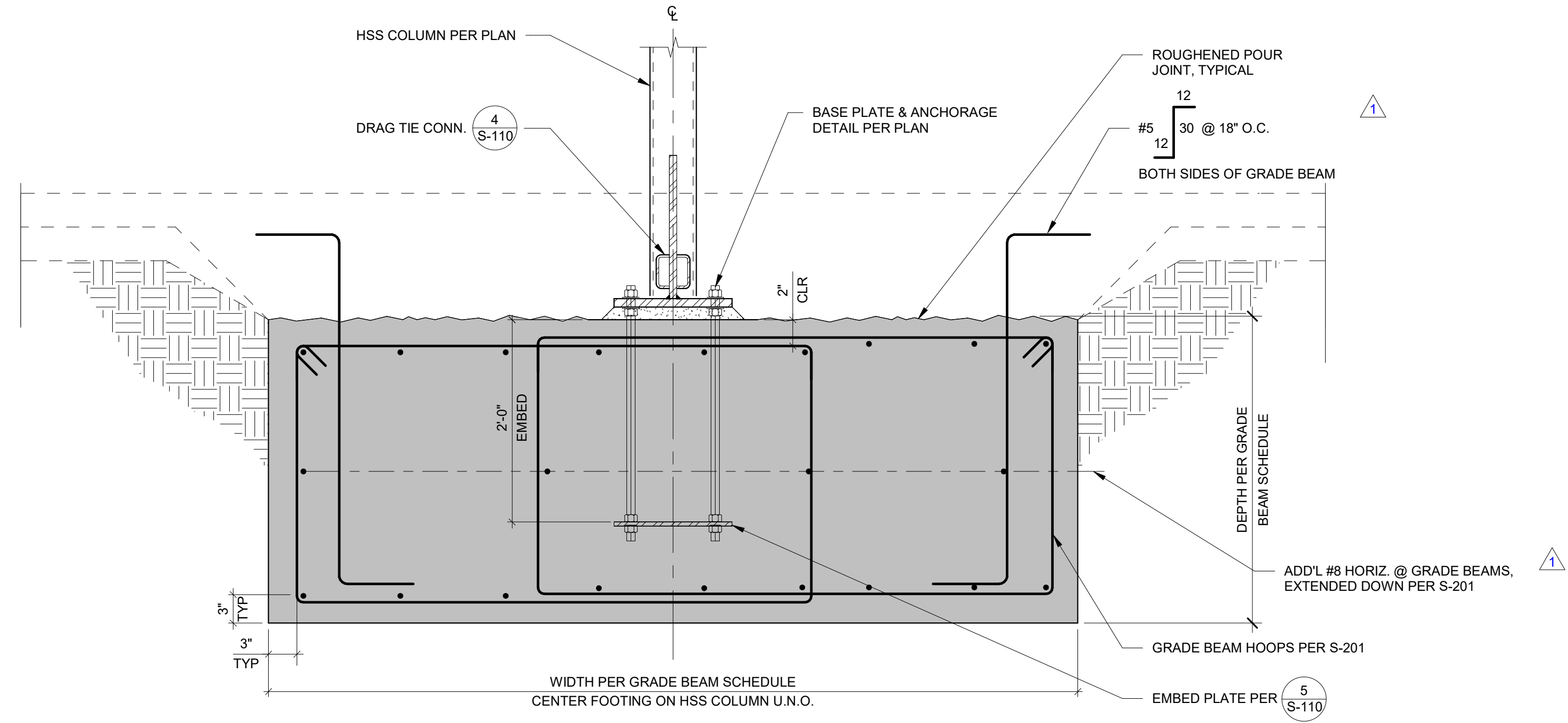
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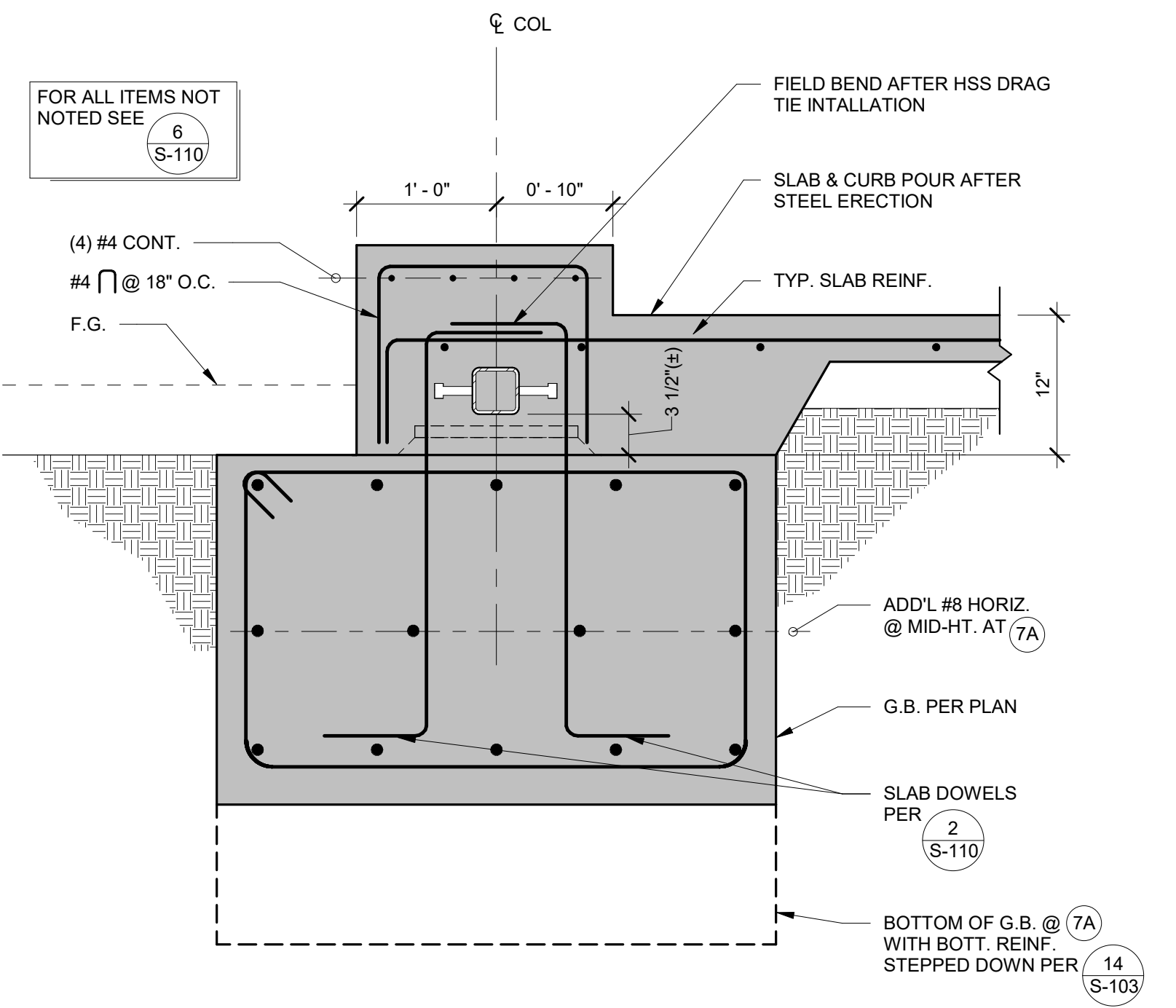
FRAME TO GRADE BEAM ELEVATION 1" = 1'-0" 1



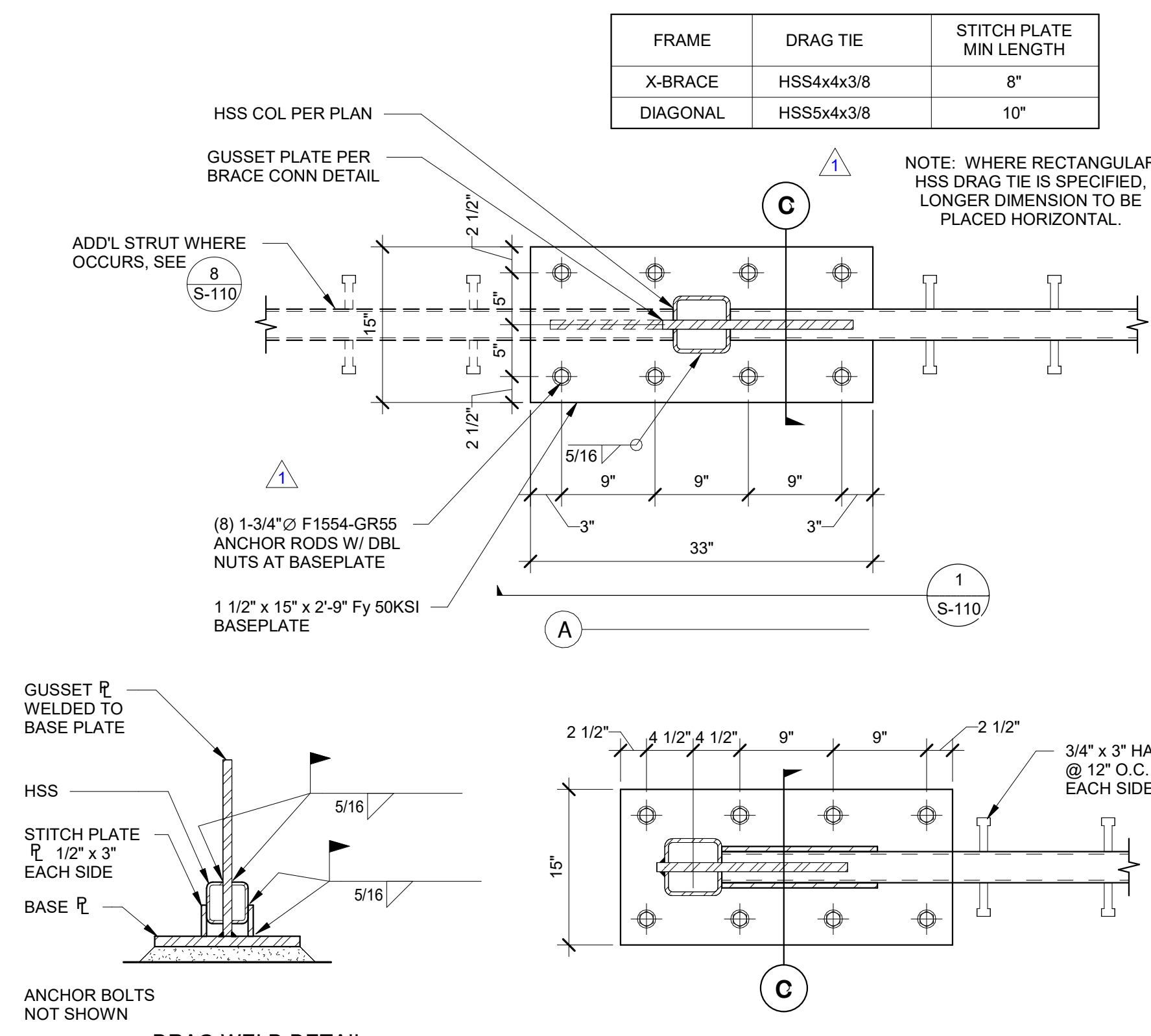
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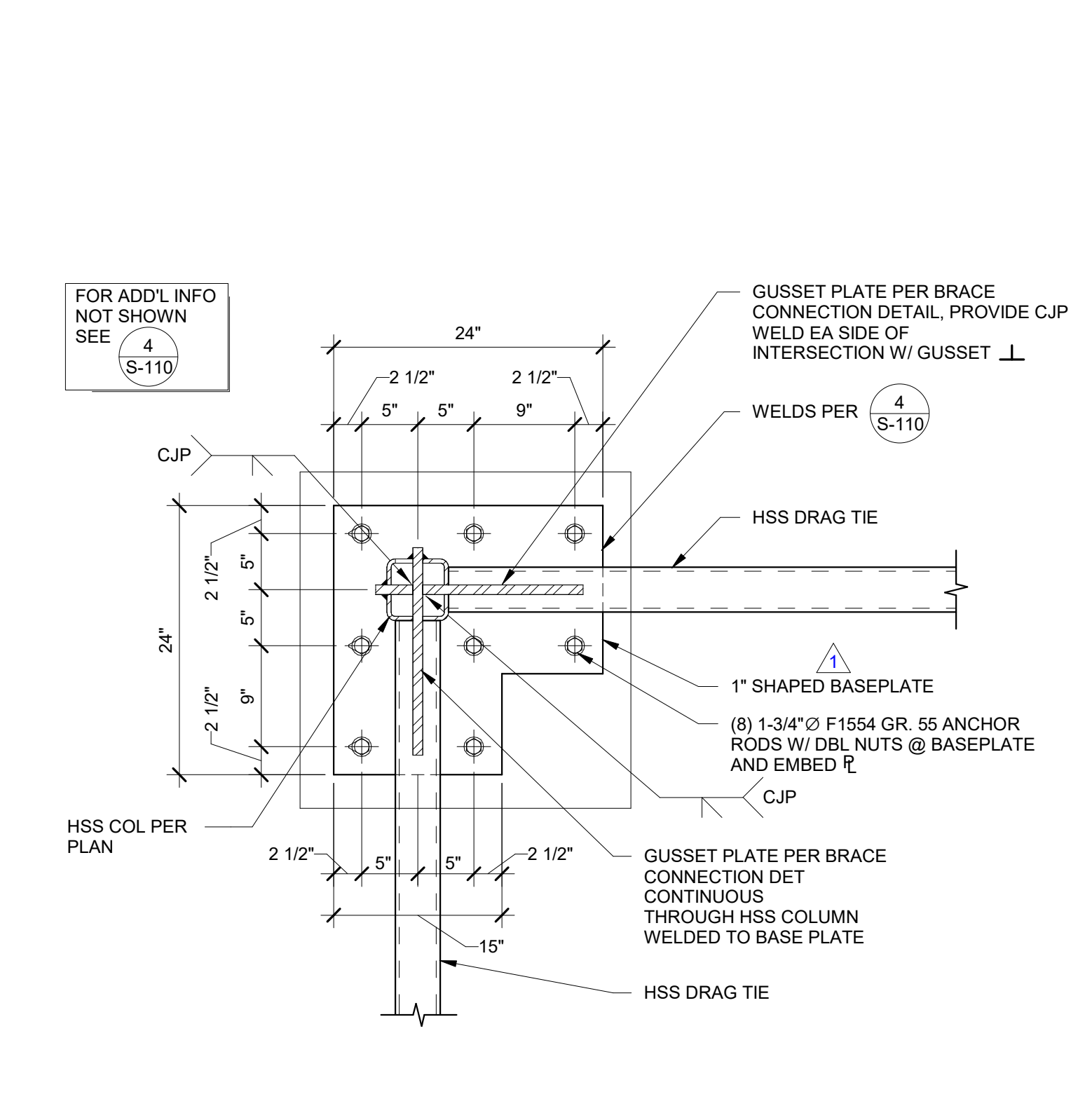
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DRAG TIE AT RESTROOM 1" = 1'-0" 7



DRAG TIE BASE PLATE 1" = 1'-0" 4



CORNER BASE PLATE 1" = 1'-0" 3

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CONSULTANT STAMP

[Architect Stamp: C-22474]

[Professional Engineer Stamp: No. 4313, Exp. 9/30/24]

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TYPICAL FRAME FOUNDATION DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

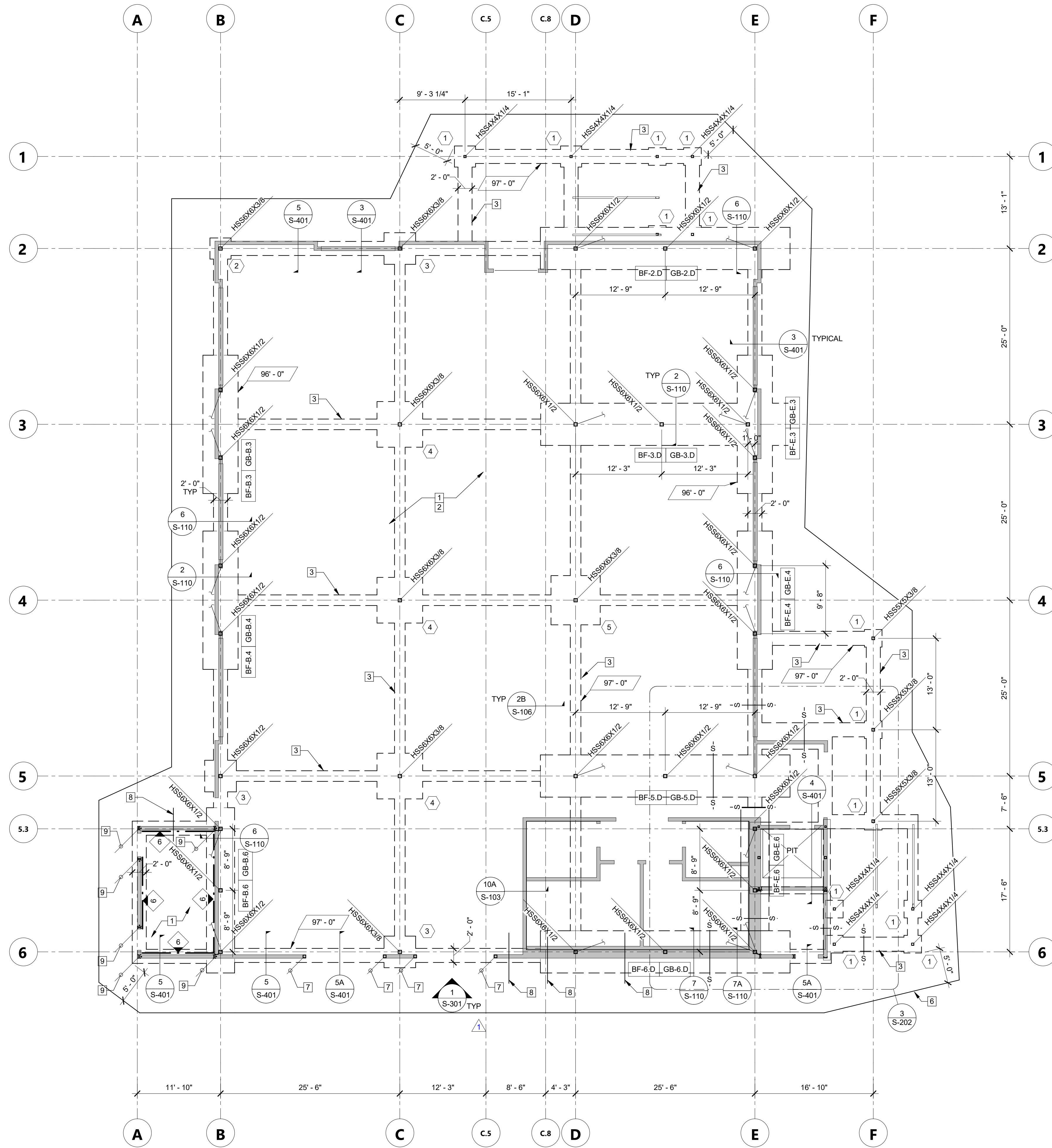
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FOUNDATION PLAN 1/8" = 1'-0" 1

PLYWOOD SHEAR WALL SCHEDULE *					
MARK	STRUC 1 PLYWOOD	FASTENERS**		SILL PLATE AND FASTENERS (U.N.O. ON PLANS OR DETAILS)	RIMBLOCKING TO TOP PLATE
		EDGE (E.F.)	FIELD (E.F.)		
6	15/32" PLYWOOD ONE SIDE	#10 SMS @ 6" O.C.	#10 SMS @ 12" O.C.	16GA TRACK SILL PLATE WITH 5/8"Ø SILL BOLTS @ 48" O.C.	A35 @ 24" O.C.
4	15/32" PLYWOOD ONE SIDE	#10 SMS @ 4" O.C.	#10 SMS @ 12" O.C.	16GA TRACK SILL PLATE WITH 5/8"Ø SILL BOLTS @ 32" O.C.	A35 @ 16" O.C.

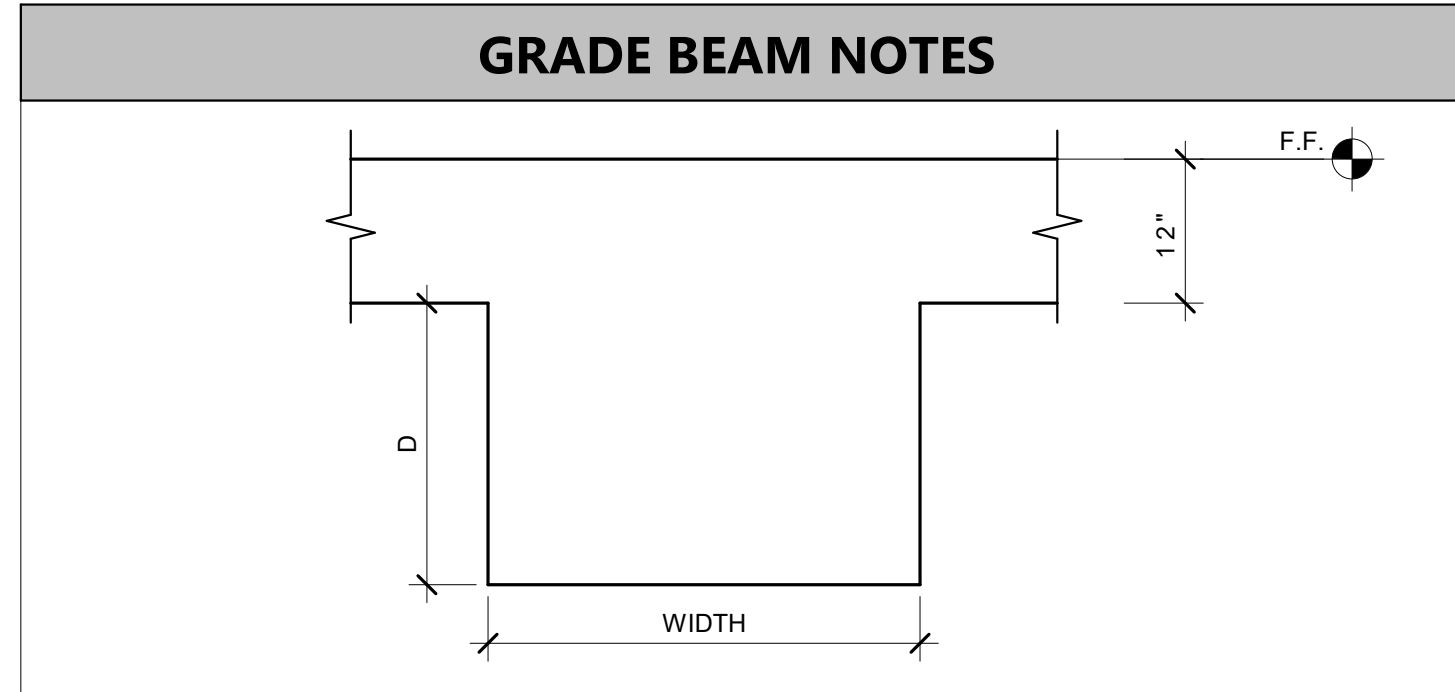
* TRACK & BLOCKING SHALL MATCH STUD GAGE THICKNESS
** USE #10 SCREWS W/ 0.333"Ø FLAT HEADS

- PLYWOOD SHEAR WALL NOTES**
- PROVIDE #10 SCREWS, W/ 0.333"Ø FLAT HEADS WITH (3) THREADS MINIMUM SCREW PENETRATION INTO FRAMING.
 - PLYWOOD PANELS MAY BE INSTALLED HORIZONTALLY OR VERTICALLY.
 - SHEAR WALLS MORE THAN ONE PLYWOOD PANEL IN HEIGHT SHALL HAVE VERTICAL AND HORIZONTAL STAGGERED JOINTS. AT HORIZONTAL JOINTS THE BLOCKING SHALL HAVE 3" WIDE FLANGES.
 - FASTENERS AT PLYWOOD JOINTS AND AT THE SILL PLATE SHALL BE STAGGERED.
 - WHERE PLYWOOD SHEAR WALLS OCCUR ON BOTH SIDES OF A WALL, OFFSET HORIZONTAL AND VERTICAL PLYWOOD JOINTS ON EACH SIDE TO FALL ON DIFFERENT STUDS AND BLOCKING.
 - SEE DETAIL (S-107) FOR TYPICAL PLYWOOD SHEAR WALL CONSTRUCTION.
 - PLYWOOD SHALL BE 15/32" 4-PLY STRUCTURAL 1 GRADE. PLYWOOD SHALL BE MANUFACTURED USING EXTERIOR GLUE.
 - STUDS IN SHEAR WALLS SHALL BE SPACED @ 16" O.C. MAXIMUM.
 - PLYWOOD SHEAR PANELS SHALL NOT BE LESS THAN 4 FEET BY 6 FEET EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM SHEET DIMENSIONS SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING.
 - HOLES IN THE SILL PLATES FOR 5/8"Ø SILL BOLTS OR THREADED RODS SHALL BE 1 1/16"Ø MAXIMUM.
 - PROVIDE HEAVY PLATE WASHER UNDER NUT OF ALL SILL BOLTS AND THREADED RODS PER (S-106)
 - INSTALL PLYWOOD SHEATHING OVER ENTIRE FACE OF WALL, INCLUDING AROUND DOORS AND WINDOW OPENINGS.

PAD FOOTING SCHEDULE				
SYM	SIZE	THICKNESS	REINFORCING	REMARKS
1	2.5' SQ.	2'-0"	#5 @ 12" O.C. EA. WAY, T&B	-
2	3' SQ.	2'-0"	#5 @ 12" O.C. EA. WAY, T&B	-
3	4.5' SQ.	2'-0"	#5 @ 12" O.C. EA. WAY, T&B	-
4	6.5' SQ.	2'-0"	#5 @ 12" O.C. EA. WAY, T&B	-
5	7' SQ.	2'-0"	#5 @ 12" O.C. EA. WAY, T&B	-

- NOTES:**
- CENTER PAD FOOTING UNDER COLUMN OR WALL UNLESS OTHERWISE NOTED.
 - FOOTING DEPTHS NOTED ARE MINIMUM. INCREASE DEPTH AS REQUIRED TO COMPLY WITH DETAILS AND BOTTOM OF FOOTING ELEVATIONS NOTED ON PLAN. SEE (S-401)
 - SPACE REINFORCING UNIFORMLY OVER FOOTING WIDTH.

GRADE BEAM SCHEDULE					
MARK	WIDTH	LENGTH	DEPTH, D	LONG. REINF., T&B	TRANSVERSE HOOPS
GB-B.6	4'-0"	23'-6"	3'-0" (*)	(5) - #8	#5 TIES @ 18"
GB-B.4	5'-0"	19'-8"	3'-0"	(6) - #8	#5 TIES @ 18"
GB-B.3	5'-0"	19'-8"	3'-0"	(6) - #8	#5 TIES @ 18"
GB-B.6	6'-0"	35'-6"	3'-0"	(7) - #8	#5 TIES @ 18"
GB-S.5	6'-0"	35'-6"	3'-0"	(7) - #8	#5 TIES @ 18"
GB-3.D	6'-0"	35'-6"	3'-0"	(7) - #8	#5 TIES @ 18"
GB-2.D	6'-0"	35'-6"	3'-0"	(7) - #8	#5 TIES @ 18"
GB-E.6	4'-0"	23'-6"	3'-0"	(5) - #8	#5 TIES @ 18"
GB-E.4	5'-0"	19'-8"	3'-0"	(6) - #8	#5 TIES @ 18"
GB-E.3	5'-0"	19'-8"	3'-0"	(6) - #8	#5 TIES @ 18"



- NOTES:**
- TERMINATE LONGITUDINAL BARS WITH A 90 DEGREE VERTICAL BEND AND STANDARD HOOK.
 - RUN LONGITUDINAL BARS TO THE FAR SIDE OF INTERSECTING GRADE BEAMS.
 - RUN HOOPS FULL LENGTH OF GRADE BEAM. AT INTERSECTIONS STOP HOOPS OF SMALLER GRADE BEAM AT NEAR SIDE OF LARGER GRADE BEAM AND RESUME PLACING ON FAR SIDE.
 - * = EXTEND BOTTOM OF GRADE BEAM TO MATCH BOTTOM OF TRENCH FOR ADJACENT CONDUITS AT MSA. PROVIDE #6 HORIZ. @ 12 INCHES ON CENTER AT HOOPS. OFFSET CONDUITS TO AVOID CONFLICTING WITH GRADE BEAM WIDTH.

- KEYNOTES (THIS SHEET ONLY)**
- 4 INCH REINFORCED CONCRETE SLAB ON GRADE PER (S-103). DO NOT POUR UNTIL AFTER STEEL ERECTION IS COMPLETED.
 - TOP OF SLAB REFERENCE ELEVATION 100'-0" = CIVIL DATUM 302.4'
 - TIE BEAM PER (S-401)
 - NOT USED
 - NOT USED
 - MINIMUM EXTENT OF OVEREXCAVATION PER (S-103)
 - HSS5x5x1/4 PER (S-301)
 - SLEEVE FOR PIPE OR CONDUIT PER (S-103)
 - HOLDOWN POST PER (S-107)

- FOUNDATION PLAN NOTES**
- DIMENSIONS ARE TO FACE OF PLYWOOD (F.O.P.). THE FACE OF PLYWOOD IS EQUAL TO THE FACE OF STRUCTURAL WALL AND GRID LINES.
 - TIGHTEN SILL ANCHOR BOLTS AND HOLDOWN BOLTS IMMEDIATELY PRIOR TO INSTALLING WALL FINISH MATERIALS.
 - NO SLEEVING OF ANY GRADE BEAM OR FOOTING IS ALLOWED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
 - PIPES AND CONDUITS SHALL PASS UNDER FOOTINGS PER (S-103) WHERE PIPE OR CONDUIT ELEVATION IS FIXED, STEP FOOTING AND ALL REINFORCING DOWN PER (S-103) AND SLEEVE PER (S-103) INSTALL SLEEVES PRIOR TO FOUNDATION POUR.
 - SEE ARCHITECTURAL DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, CURBS, AND FLOOR DRAINS.
 - PROVIDE 1/2" STRUCT 1 PLYWOOD ON INTERIOR WALLS ADJACENT TO SHEAR PANELS TO PROVIDE FLUSH SURFACE FOR FINISH MATERIALS W/ #10 S.M.S. @ 6" O.C. E.N. AND 12" O.C. F.N.
 - NO ELECTRICAL PANEL, COMMUNICATIONS PANEL, FIRE HOSE CABINET, ETC. IS PERMITTED IN ANY SHEAR PANEL. FACE MOUNT ALL SUCH EQUIPMENT.
 - STRUCTURAL WALL STUDS ARE 6" x 18 GA @ 16" O.C. UNLESS NOTED OTHERWISE.
 - PLATE GROUT UNDER COLUMN BASE PLATES 3 DAYS MINIMUM PRIOR TO POURING 2ND FLOOR CONCRETE SLAB.
 - DO NOT POUR CONCRETE SLAB ON GRADE UNTIL AFTER STEEL ERECTION IS COMPLETE.
 - FOR EXTERIOR PAVING AND SITE WORK SEE CIVIL DRAWINGS.

CONSULTANTS	
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CONSULTANT STAMP: **JEFFREY E. HANDEL**, LICENSED PROFESSIONAL ENGINEER, No. 4313, Exp. 9/30/24, State of California.

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LEGEND

- ○ HSS COLUMN OR PIPE COLUMN
- ▧ INDICATES BRACED FRAME. SEE ELEVATION ON SHEET S-108
- CONCRETE PAD PER FOOTING SCHEDULE
- ▬ CONC. CURB
- ▬ METAL STUD WALL
- C.J. INDICATES CONTROL JOINT OR CONSTRUCTION JOINT. SEE (S-103)
- S — INDICATES STEP IN FTG. SEE (S-103)
- XX'-X" — ELEVATION BOTTOM OF FOOTING
- ▬ BF-X' GB-X' BRACED FRAME | GRADE BEAM AS NOTED

FOUNDATION PLAN

DRAWN BY: JHR JOB NUMBER: 21179.01

SHEET NO. **S-201**

DATE: APRIL 20, 2023

AGENCY APPROVAL

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: **DS** 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

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CAL POLY TECH
PARK - PHASE 2
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SHEET TITLE
FOUNDATION PLAN

DRAWN BY: JHR JOB NUMBER: 21179.01

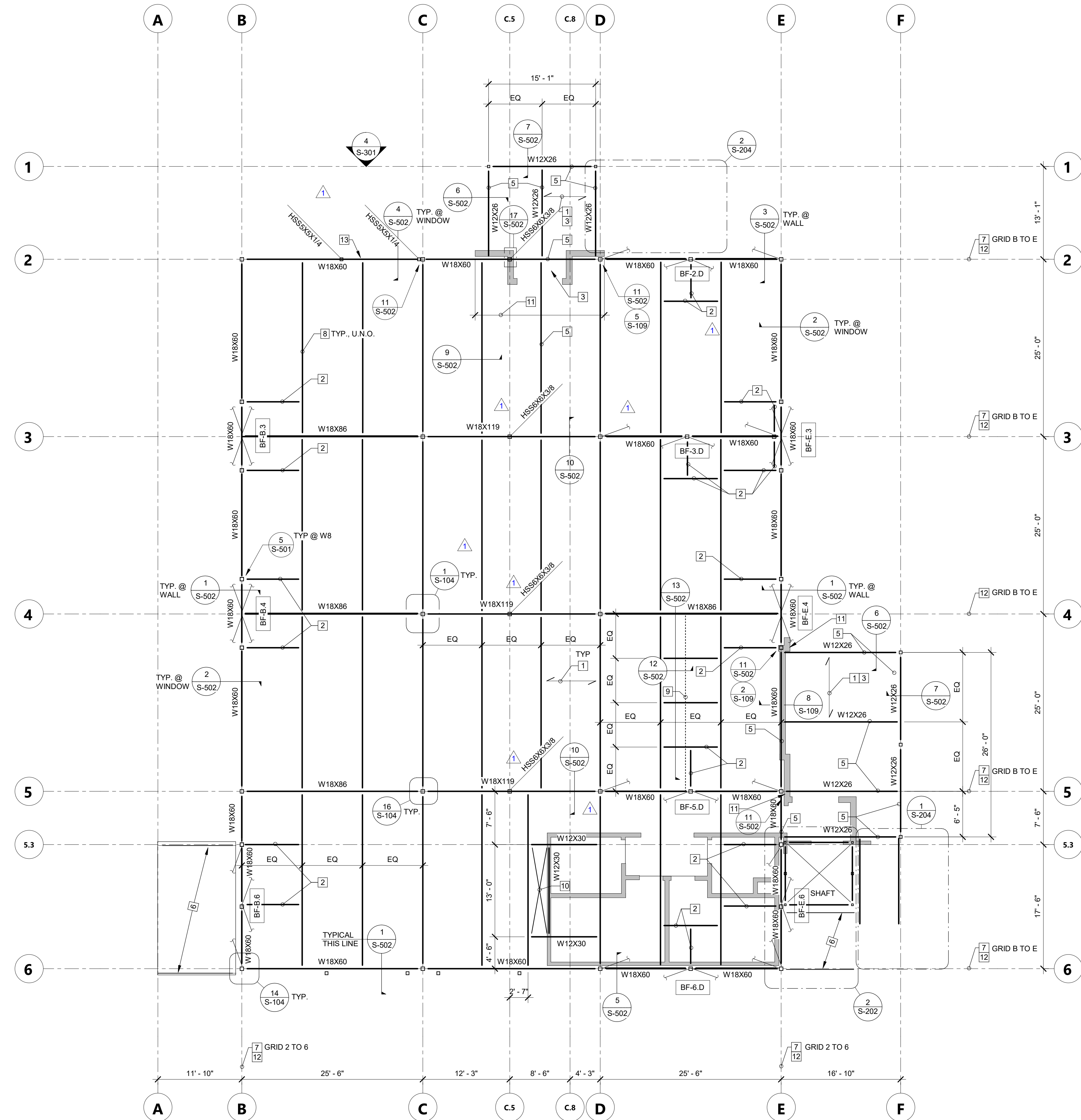
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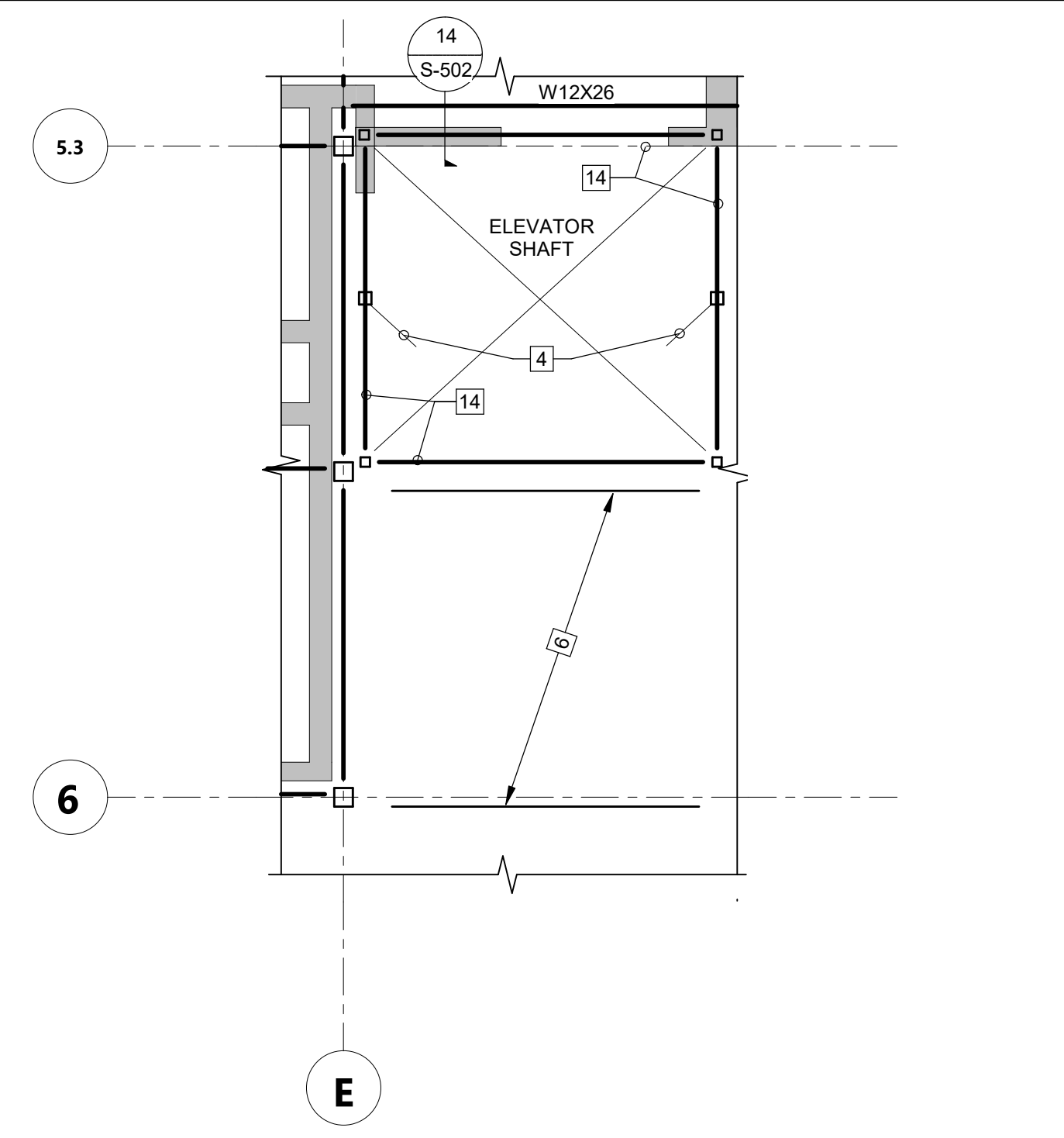
SECOND FLOOR FRAMING PLAN 1/8" = 1'-0" 1



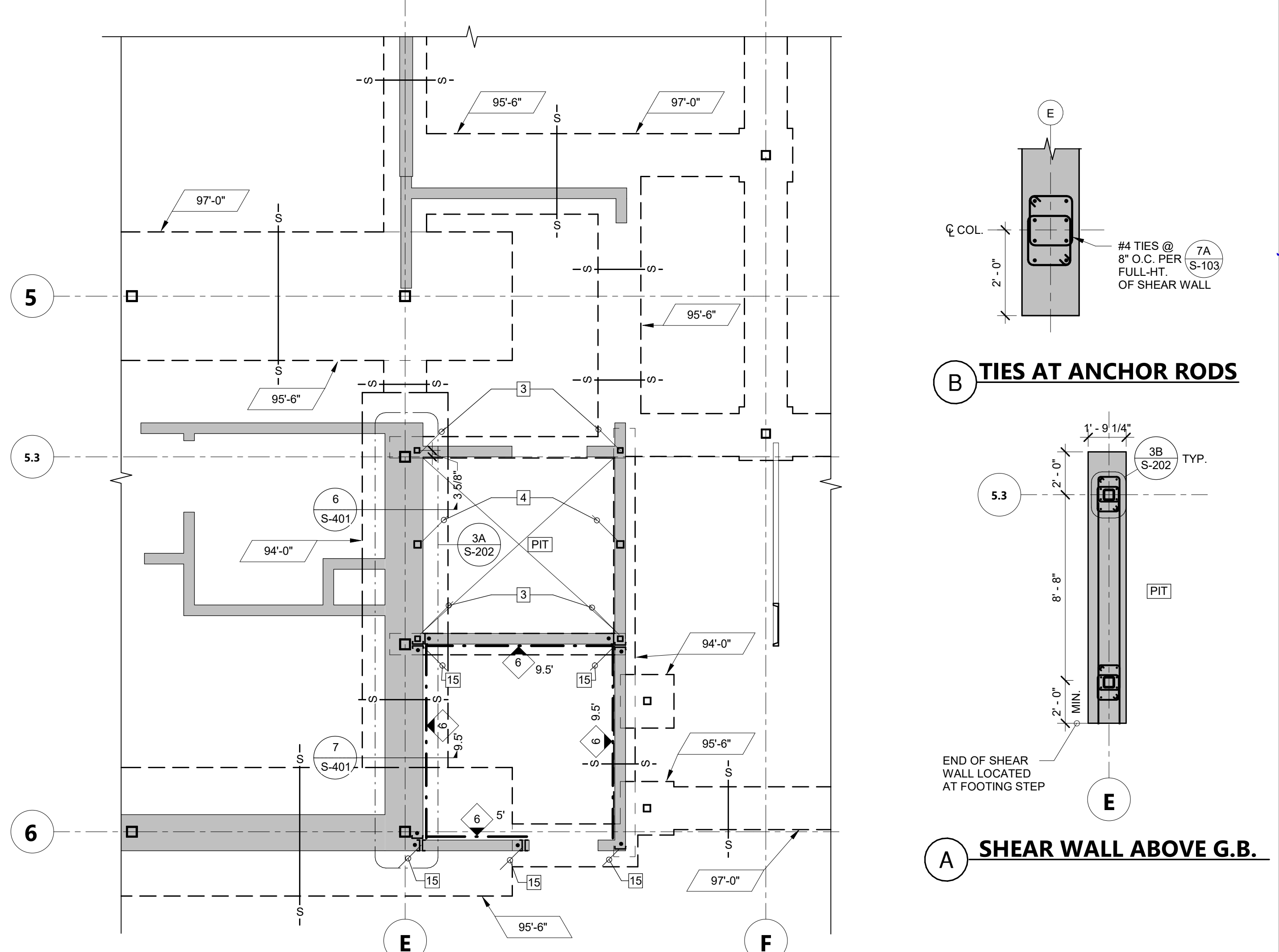
KEYNOTES (THIS SHEET ONLY)	
1	5 1/2" TOTAL SLAB DEPTH, 3,000 PSI STRUCTURAL LIGHTWEIGHT CONCRETE (110 PCF) WITH 3" x 18GA VENTED METAL DECK. TOP OF SLAB = 15'-0" ABOVE FIRST FLOOR SLAB U.N.O.
2	W8x18 BEAM WITH CONNECTION TO COLUMN PER (S-501) AND TO BEAM PER (S-105)
3	HSS 4x4x1/4 WITH BASE PLATE PER (S-104) ON TOP OF CURB
4	HSS4x4x1/4 COLUMN FOR ELEVATOR RAIL BRACING WITH BASE PLATE PER (S-104)
5	TOP OF STEEL DROPPED 2"
6	1-1/2" METAL DECK ON 60S162-54 METAL STUD ROOF JOISTS @ 16" O.C.
7	SEISMIC FORCE RESISTING CHORD / COLLECTOR LINE
8	W16x31 BEAM
9	W8x18 LOW BEAM FOR SUPPORT OF OPERABLE PARTITION
10	OPENING FOR DUCT SHAFT
11	EXTEND CURB AT WALL TO 12" BEYOND EXTERIOR LANDING
12	PROVIDE TWO LINES OF BOLTS IN BEAM SHEAR CONNECTIONS PER (S-104)
13	LOW HSS4x4x1/4 HEADER PER (S-301)
14	W8x10 ELEVATOR RING BEAM WITH END CONNECTIONS PER (S-501)
15	HOLDOWN POST PER (S-107)

PLAN NOTES	
1.	TOP OF STRUCTURAL CONCRETE FLOOR SLAB = 15'-0" ABOVE FIRST FLOOR, U.N.O.
2.	TOP OF STRUCTURAL STEEL FRAMING = 14'-6 1/2" UNLESS NOTED OTHERWISE.
3.	PLACE GROUT UNDER COLUMN BASE PLATES PRIOR TO POURING SECOND FLOOR CONCRETE SLAB.
4.	SUPPORT AND BRACE UTILITIES IN ACCORDANCE WITH APPLICABLE OPM REQUIREMENTS (OPM 0043, ETC). PROVIDE LAYOUT DRAWINGS AS SPECIFIED IN THE OPM

FRAMING LEGEND	
	STEEL COLUMN AS NOTED
	STEEL STUD WALLS BELOW FRAMING
	STEEL BEAM AS NOTED
	BRACED FRAME AS NOTED



ENLARGED 2ND FLR. FRAMING AT ELEV. 2 1/4" = 1'-0" 2



ENLARGED FOUNDATION PLAN AT ELEV. 3 1/4" = 1'-0" 3

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ARCHITECT STAMP 	CONSULTANT STAMP
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SHEET TITLE
SECOND FLOOR FRAMING PLAN

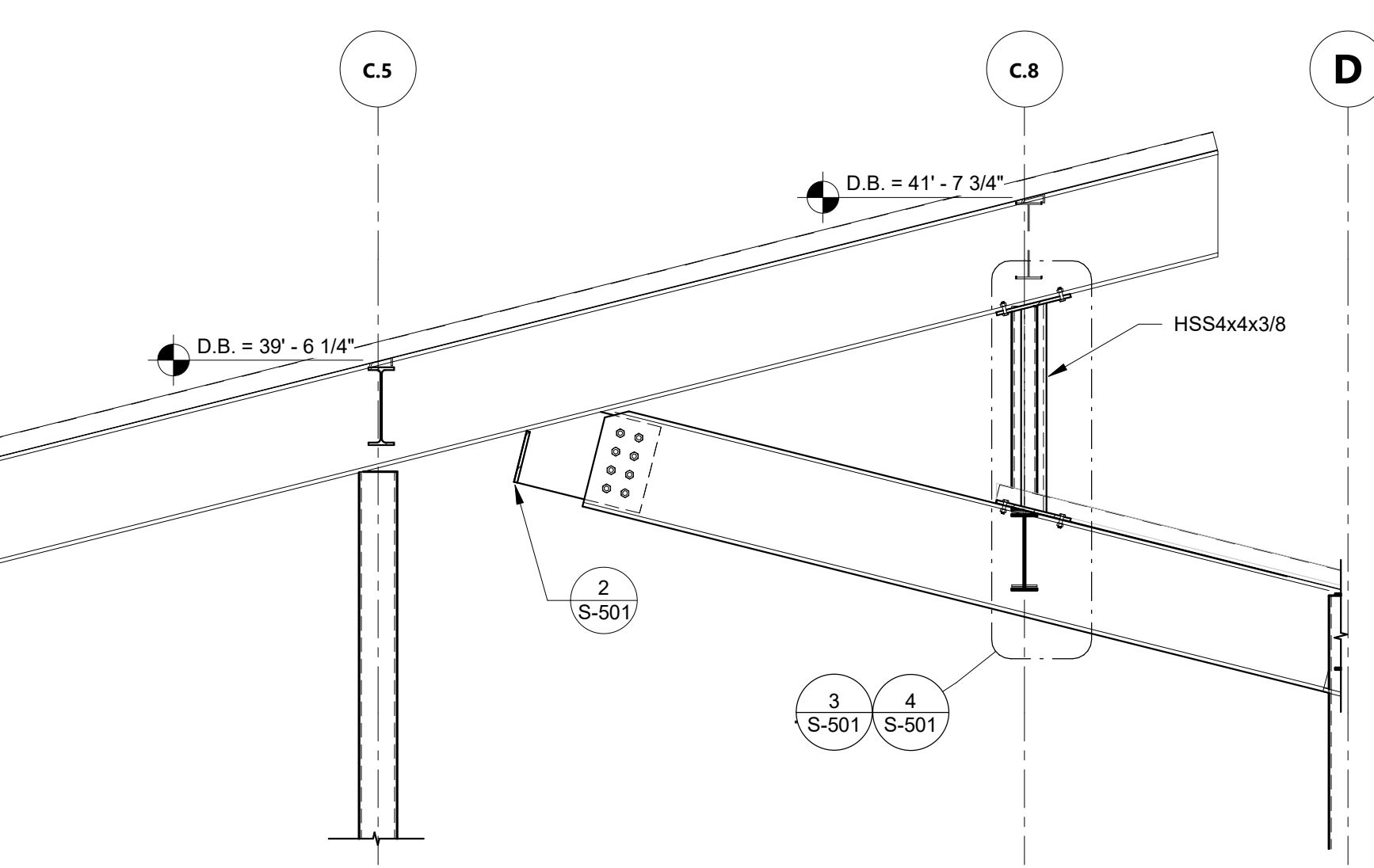
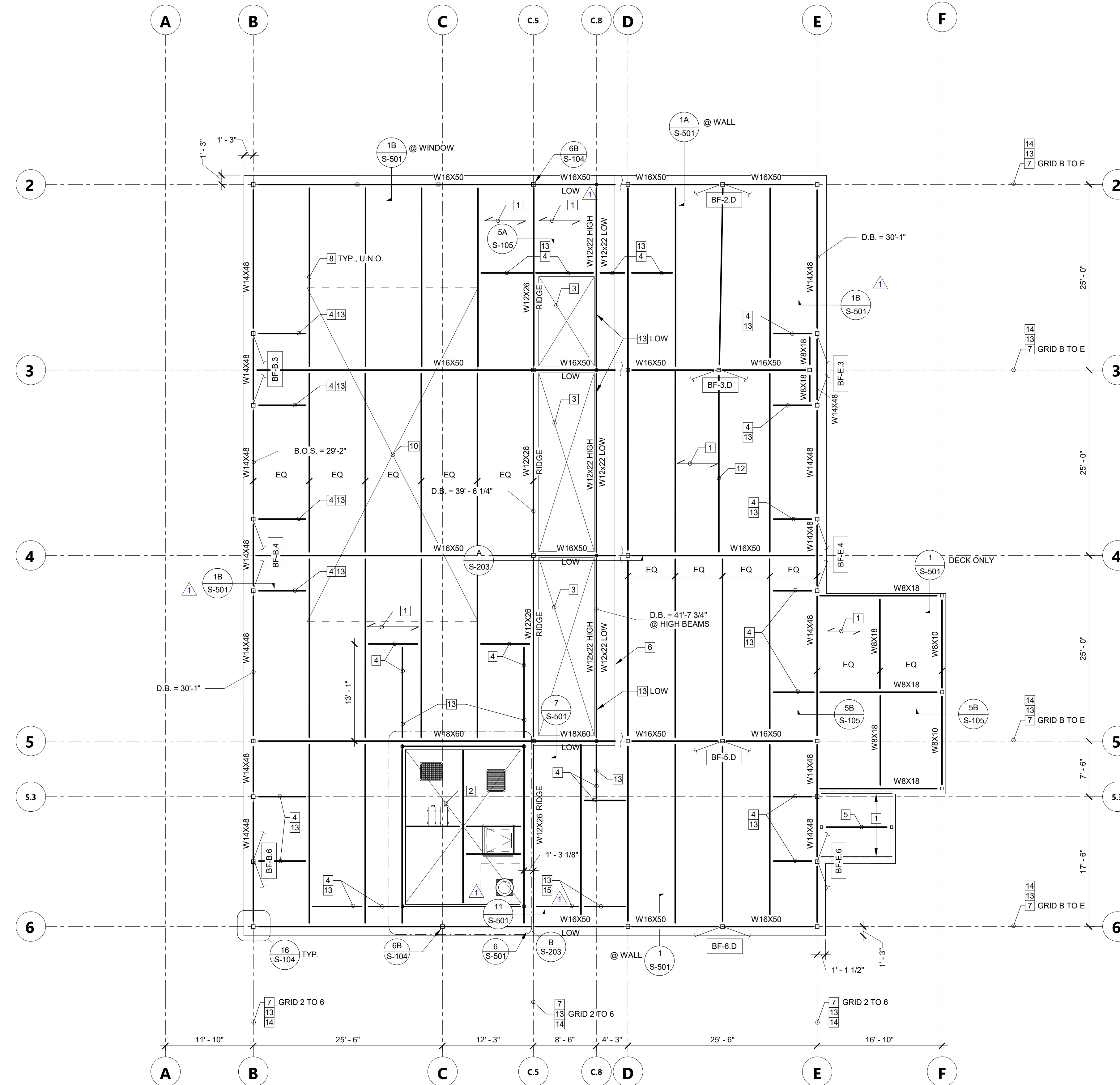
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S-202

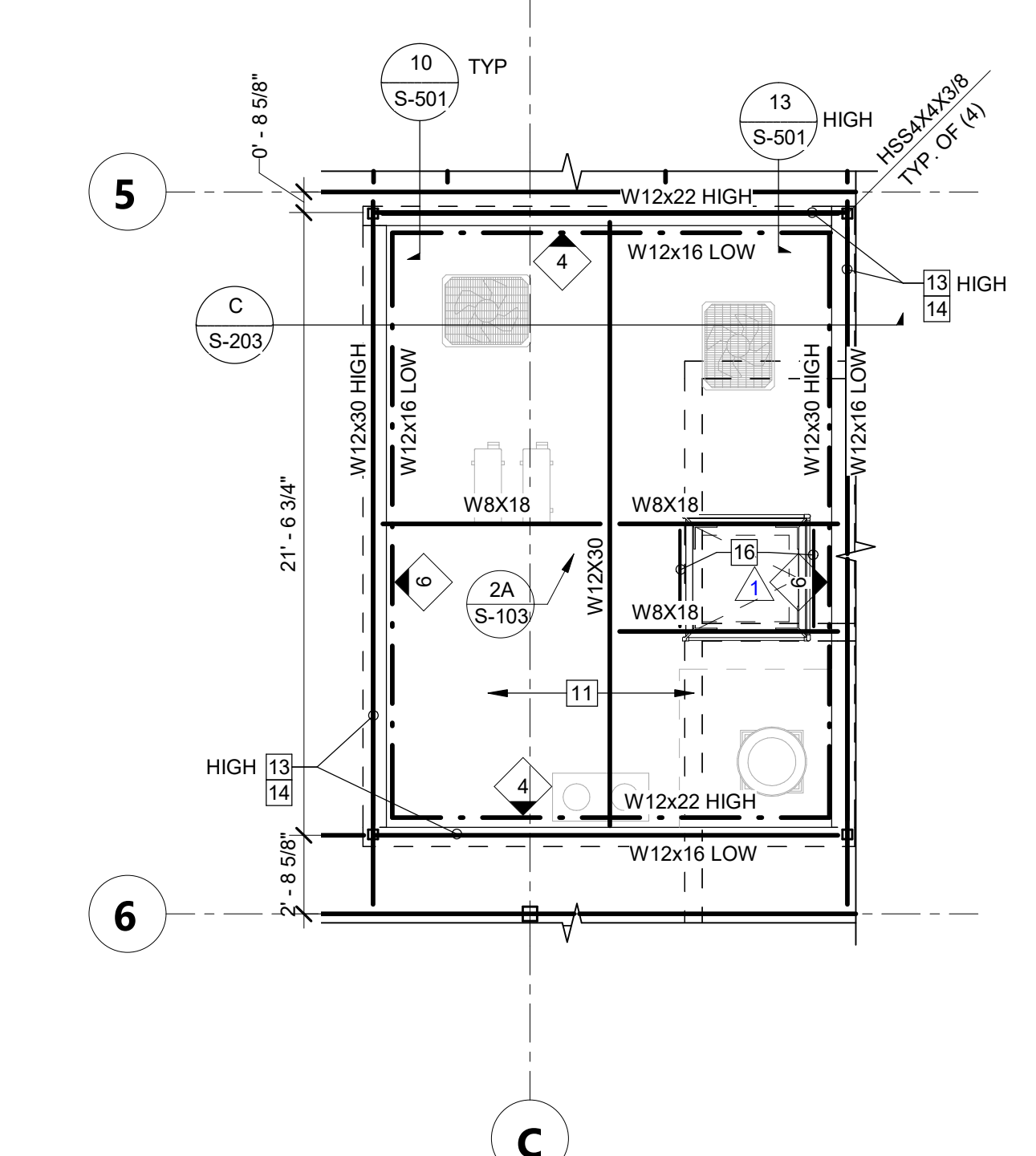
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CONSTRUCTION DOCUMENTS

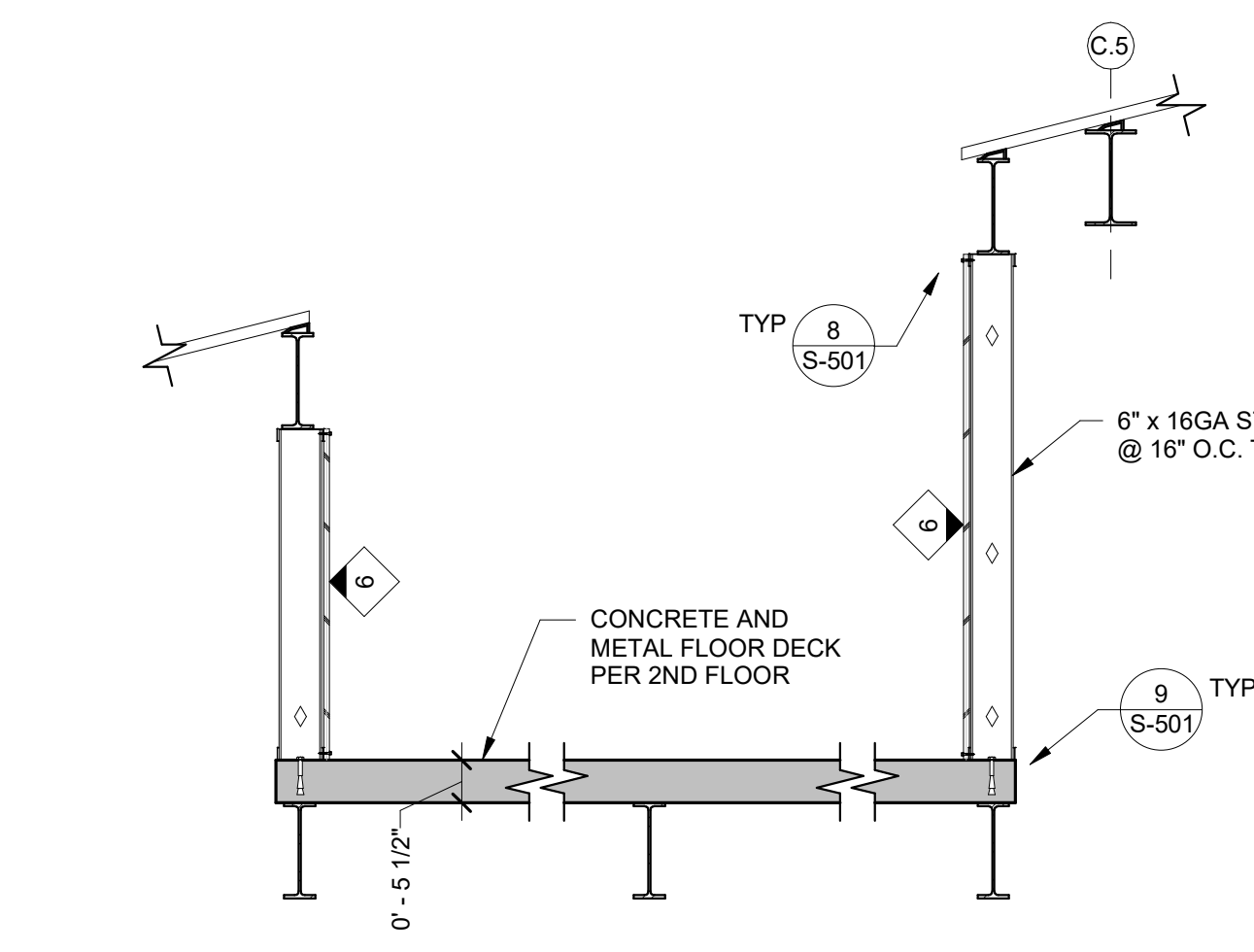
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A SECTION AT GRID 2, 3, 4, 5
1/2" = 1'-0"



B ROOF WELL FRAMING PLAN
3/16" = 1'-0"



C SECTION AT ROOF WELL
1/2" = 1'-0"

KEYNOTES (THIS SHEET ONLY)	
1	1 1/2" x 18GA METAL DECK, TYPICAL PER (S-105)
2	ROOF WELL FRAMING PER (B)
3	OPEN AT LOW ROOF DIAPHRAGM
4	W8x18 BEAM WITH CONNECTION TO COLUMN PER (S-501) AND TO BEAM PER (2A) (S-105)
5	W8x18 ELEVATOR HOIST BEAM
6	EDGE OF HIGH ROOF DECK
7	SEISMIC FORCE RESISTING CHORD / COLLECTOR LINE
8	W12x16 BEAM
9	1 1/2" METAL DECK ON METAL STUD ROOF JOISTS
10	AREA FOR FUTURE PHOTOVOLTAIC SYSTEM DESIGNED FOR ADDITIONAL 5 PSF (GRAVITY AND SEISMIC) (23 FEET x 45 FEET). PROVIDE PHOTOVOLTAIC SYSTEM WITH CLEAR SPACE BELOW PANELS OF 24 INCHES OR LESS
11	5 1/2" TOTAL SLAB DEPTH, 3,000 PSI STRUCTURAL LIGHTWEIGHT CONCRETE (110 PCF) WITH 3" x 18GA VENTED METAL DECK PER (S-105)
12	CENTER PURLIN ON BRACED FRAME AT GRIDLINE (3)
13	DRAG MEMBER WITH (2) ROWS OF FASTENERS AT TYPICAL SPACING
14	PROVIDE TWO LINES OF BOLTS IN BEAM SHEAR CONNECTIONS PER (S-104) (S-104)
15	W12x22 BEAM
16	L3x3 PER (S-105)

PLAN NOTES	
1.	SEE MECHANICAL DRAWINGS FOR UNIT LOCATIONS AND DUCT LAYOUT.
2.	DO NOT SUPPORT OR BRACE UTILITIES (PIPES, CONDUIT, DUCTS) FROM METAL ROOF DECK. INSTALL LIGHT-GAGE STEEL STRUT OR OTHER SUPPLEMENTAL FRAMING TO STRUCTURAL BEAMS.
3.	SUPPORT AND BRACE UTILITIES IN ACCORDANCE WITH APPLICABLE OPM REQUIREMENTS (OPM 0043, ETC). PROVIDE LAYOUT DRAWINGS AS SPECIFIED IN THE OPM.
4.	Ceilings LESS THAN 5 PSF MAY BE SUPPORTED FROM AND BRACED BY THE METAL ROOF DECK. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
5.	D.B. = DECK BEARING HEIGHT, ABOVE FIRST FLOOR

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2	5/30/2023	Revision 2

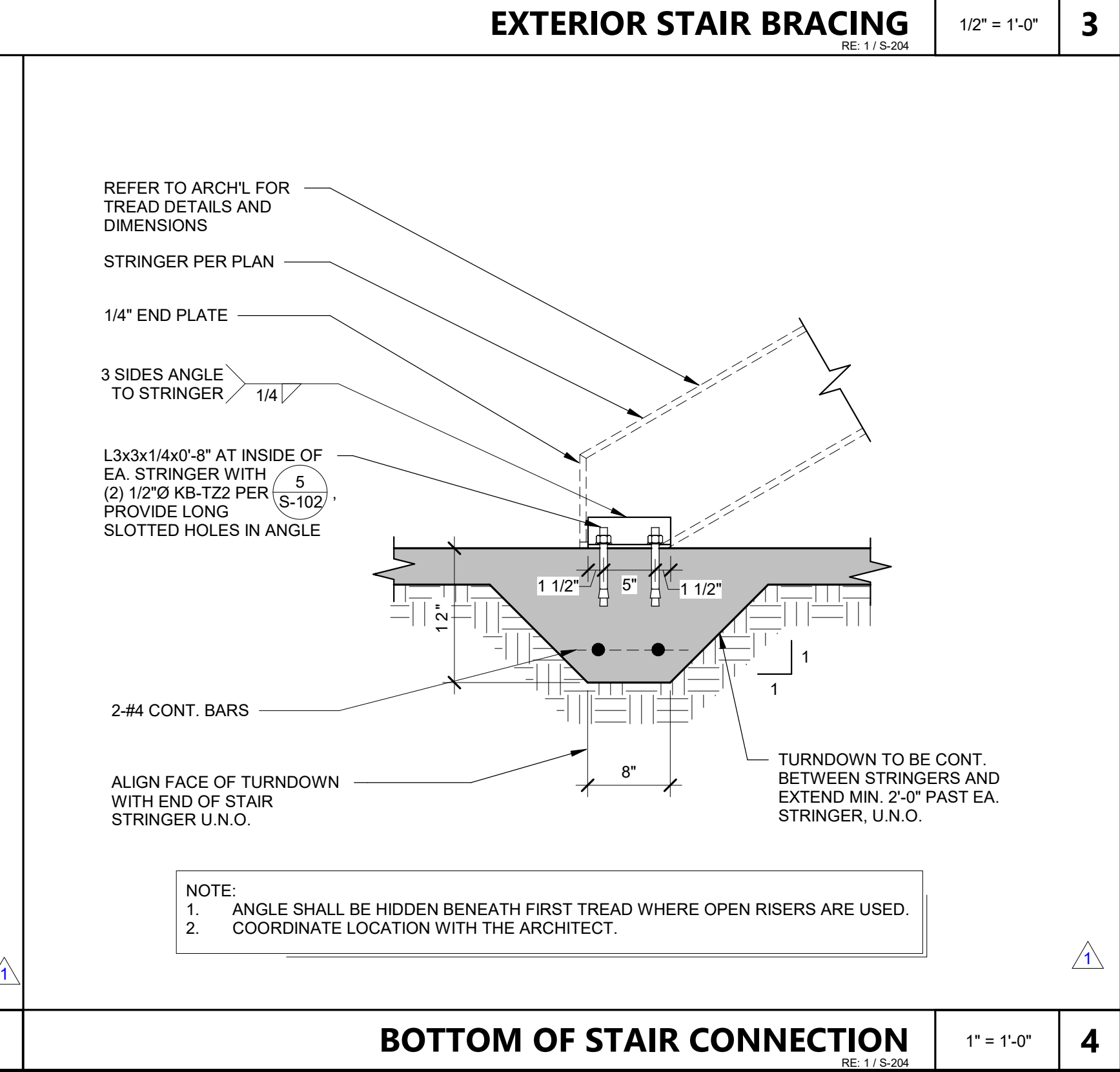
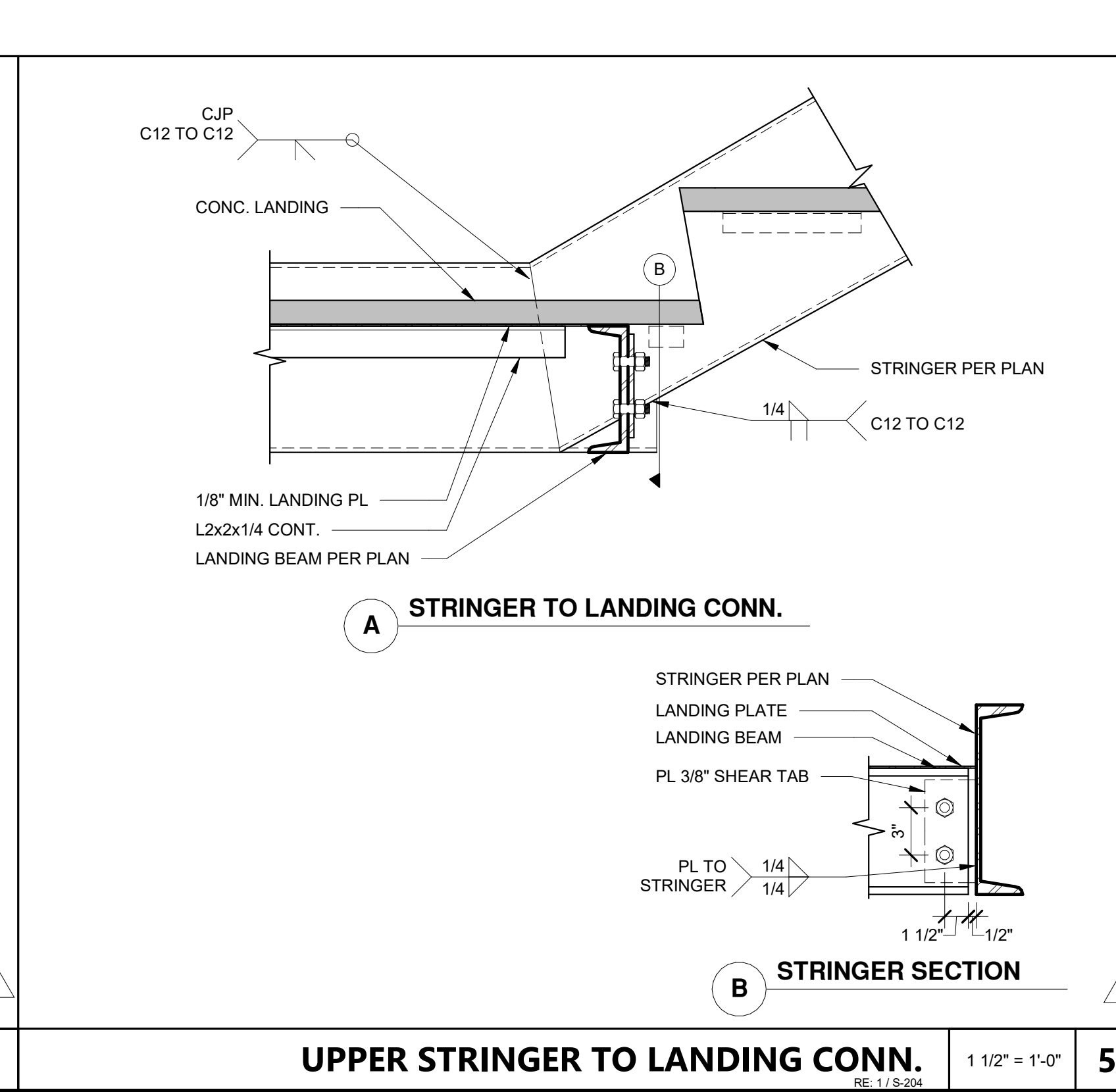
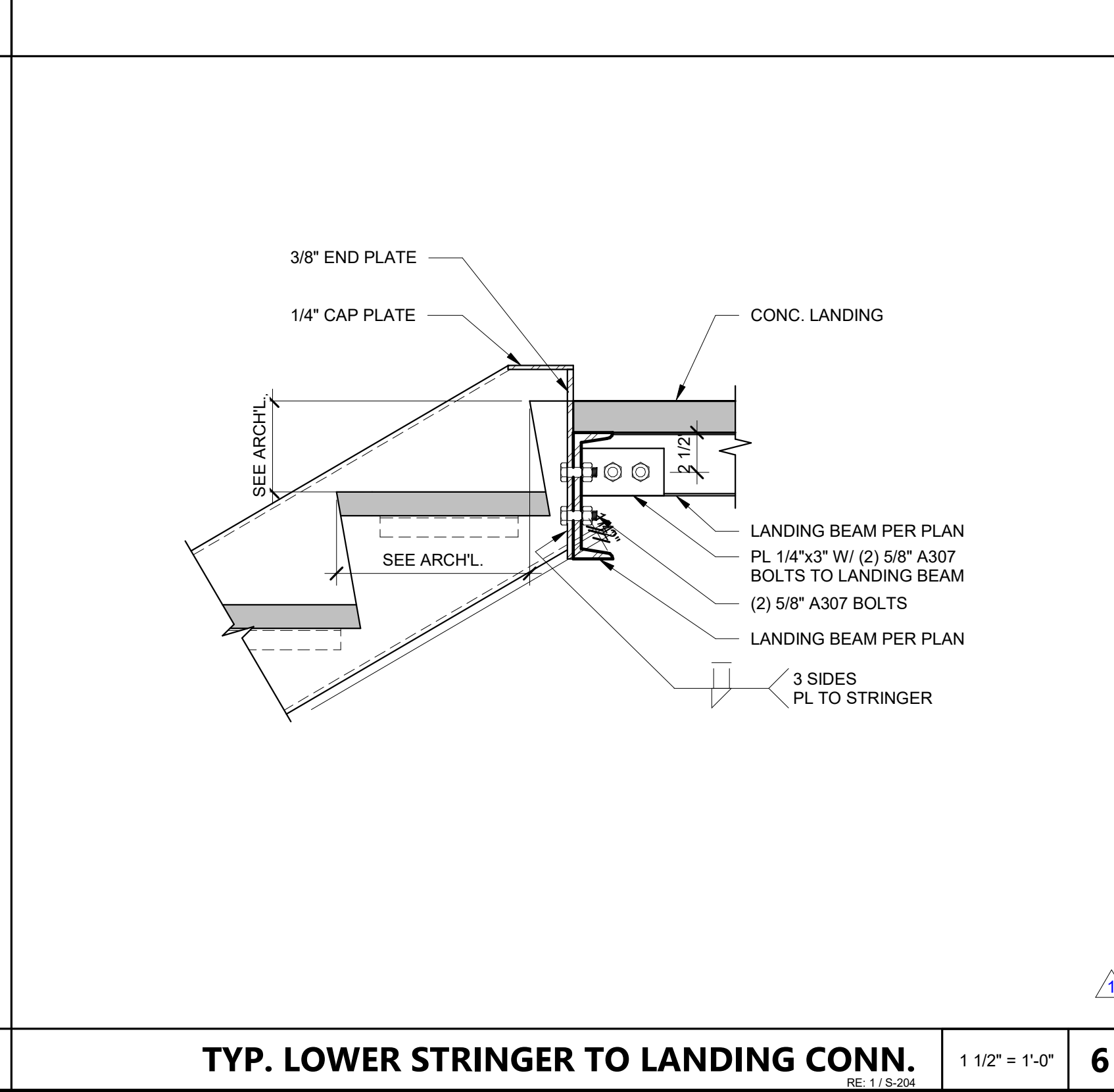
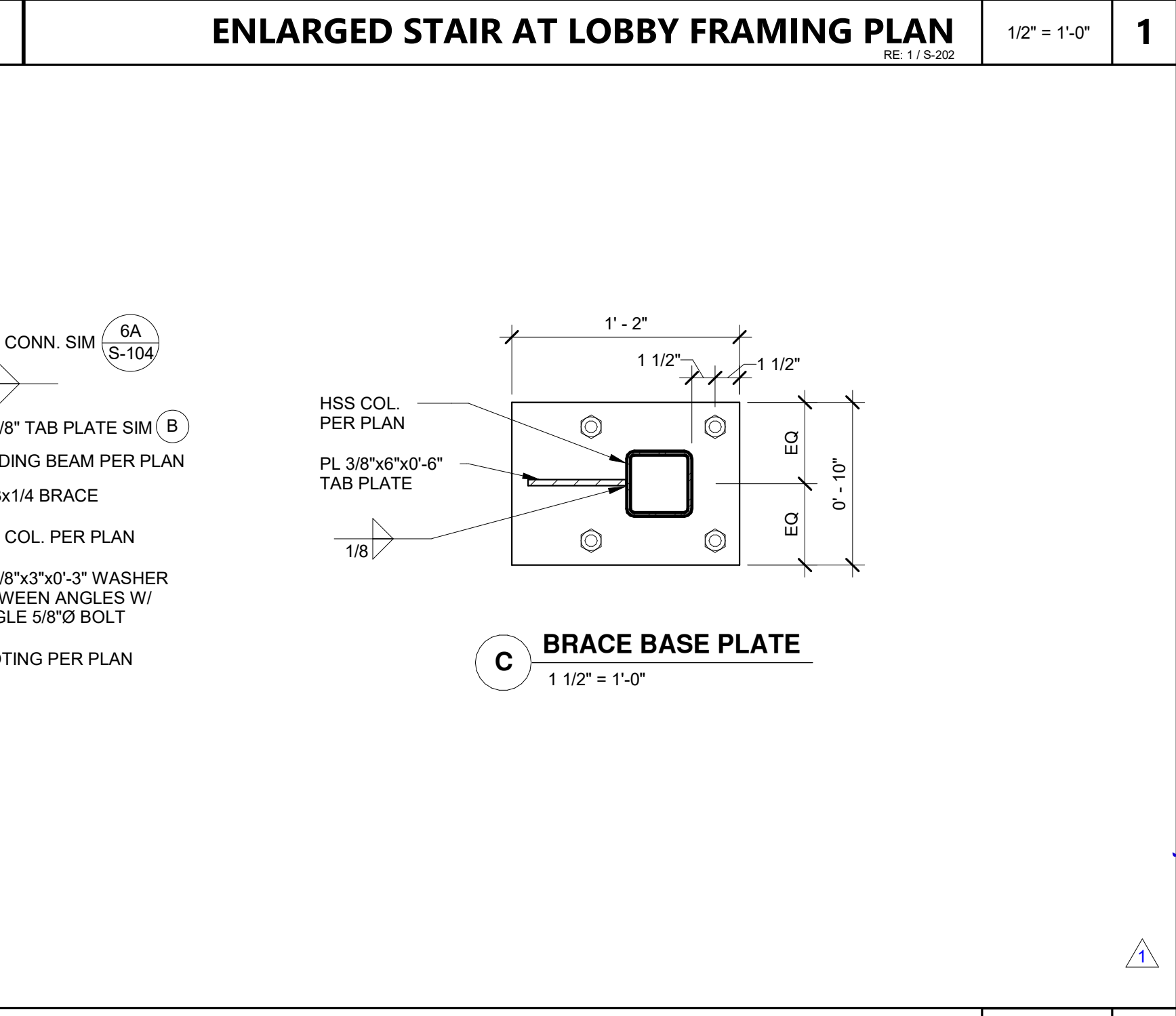
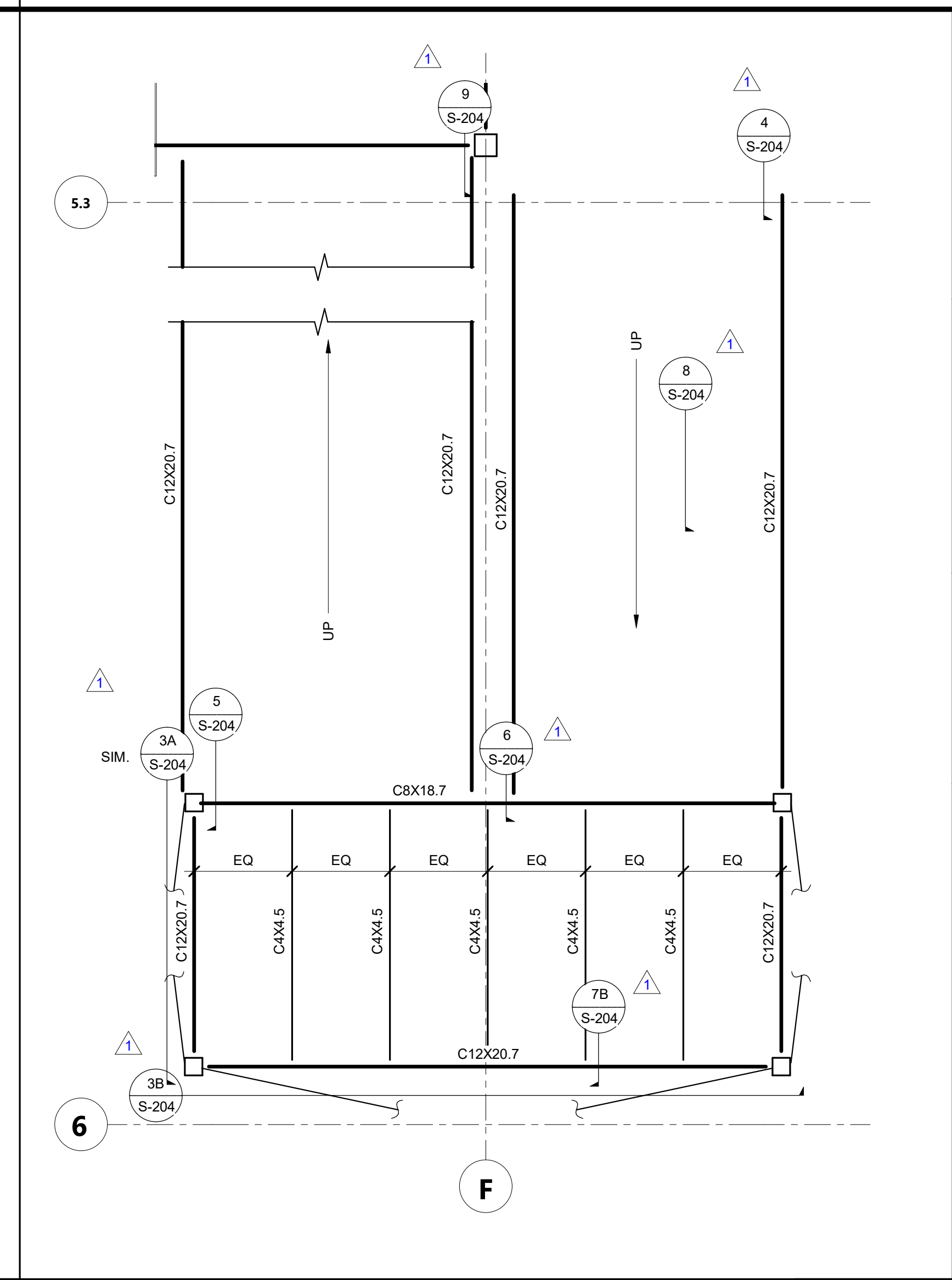
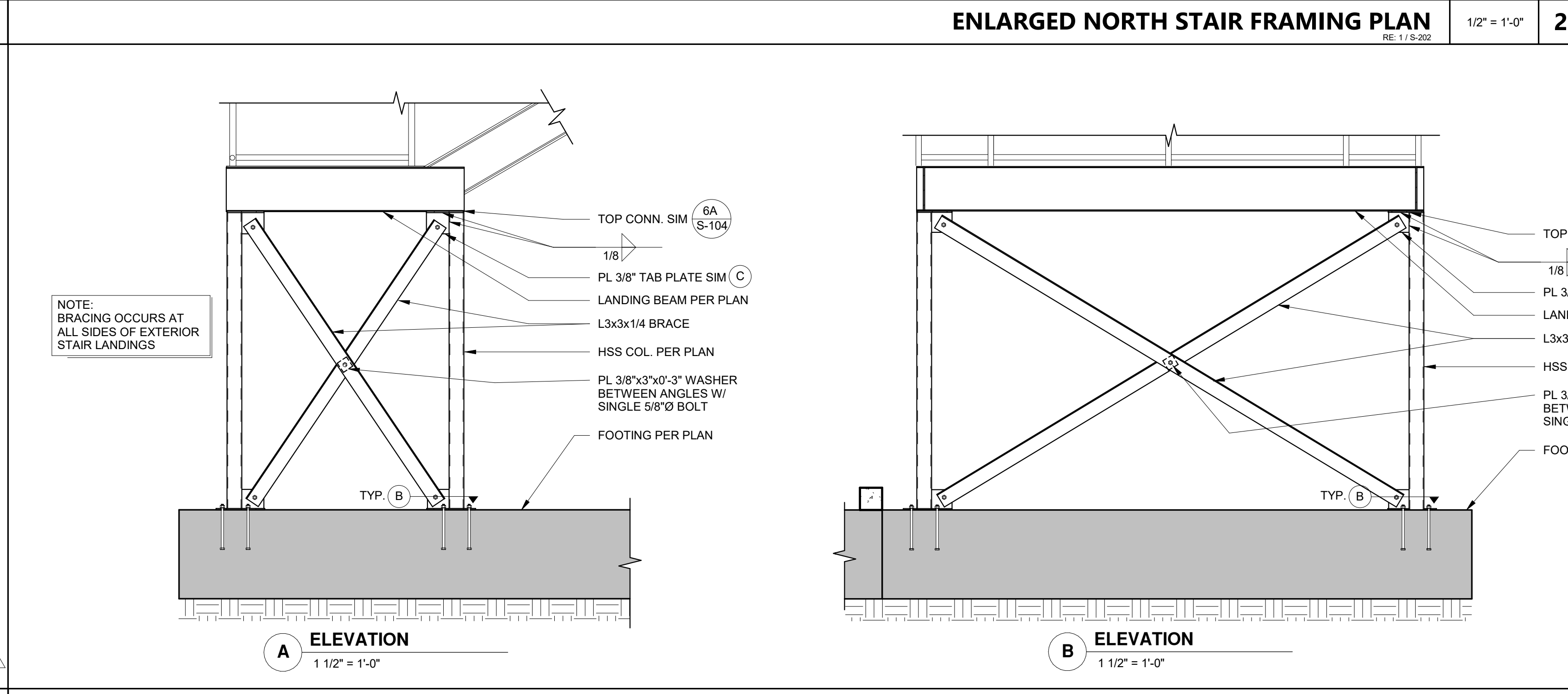
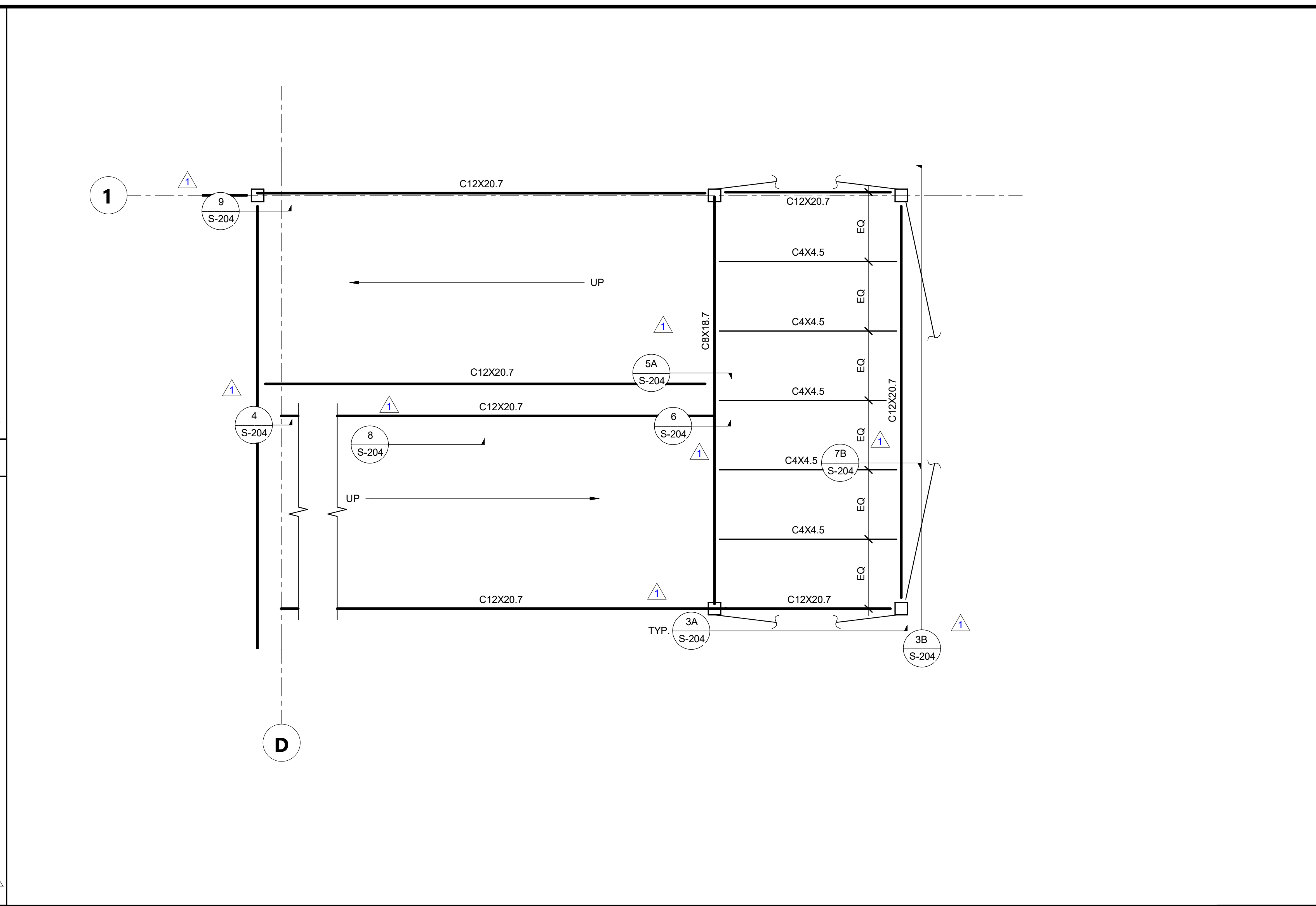
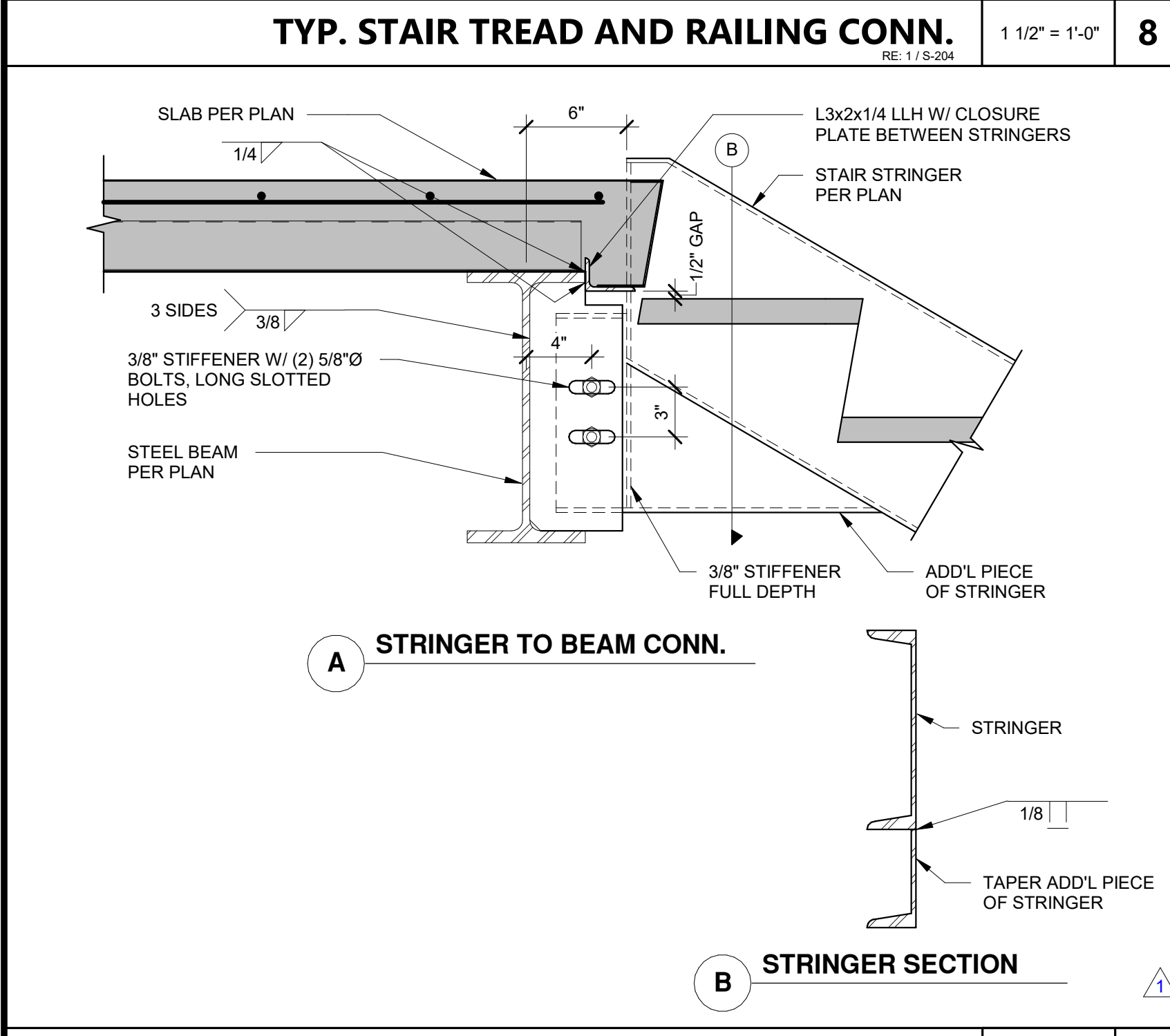
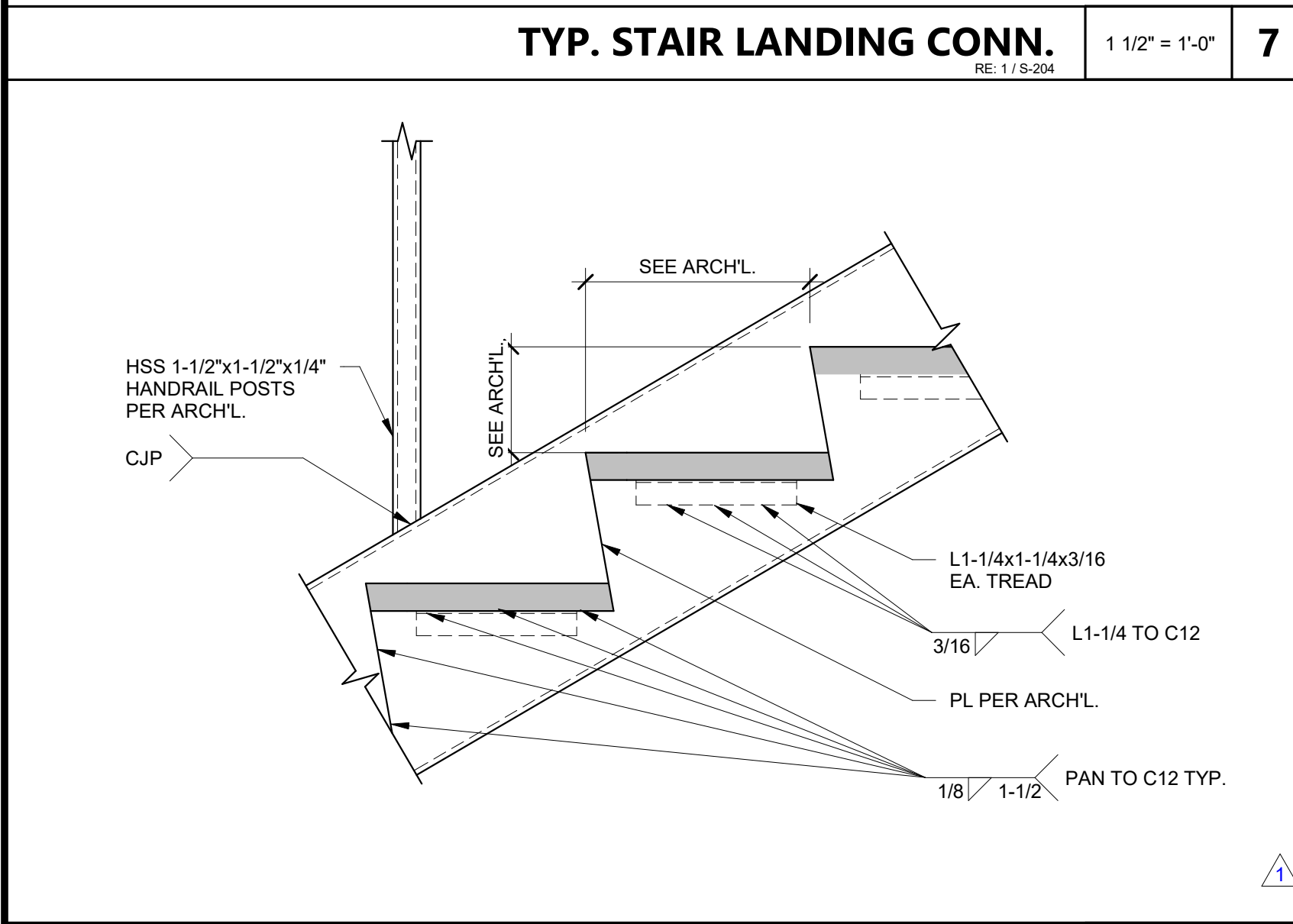
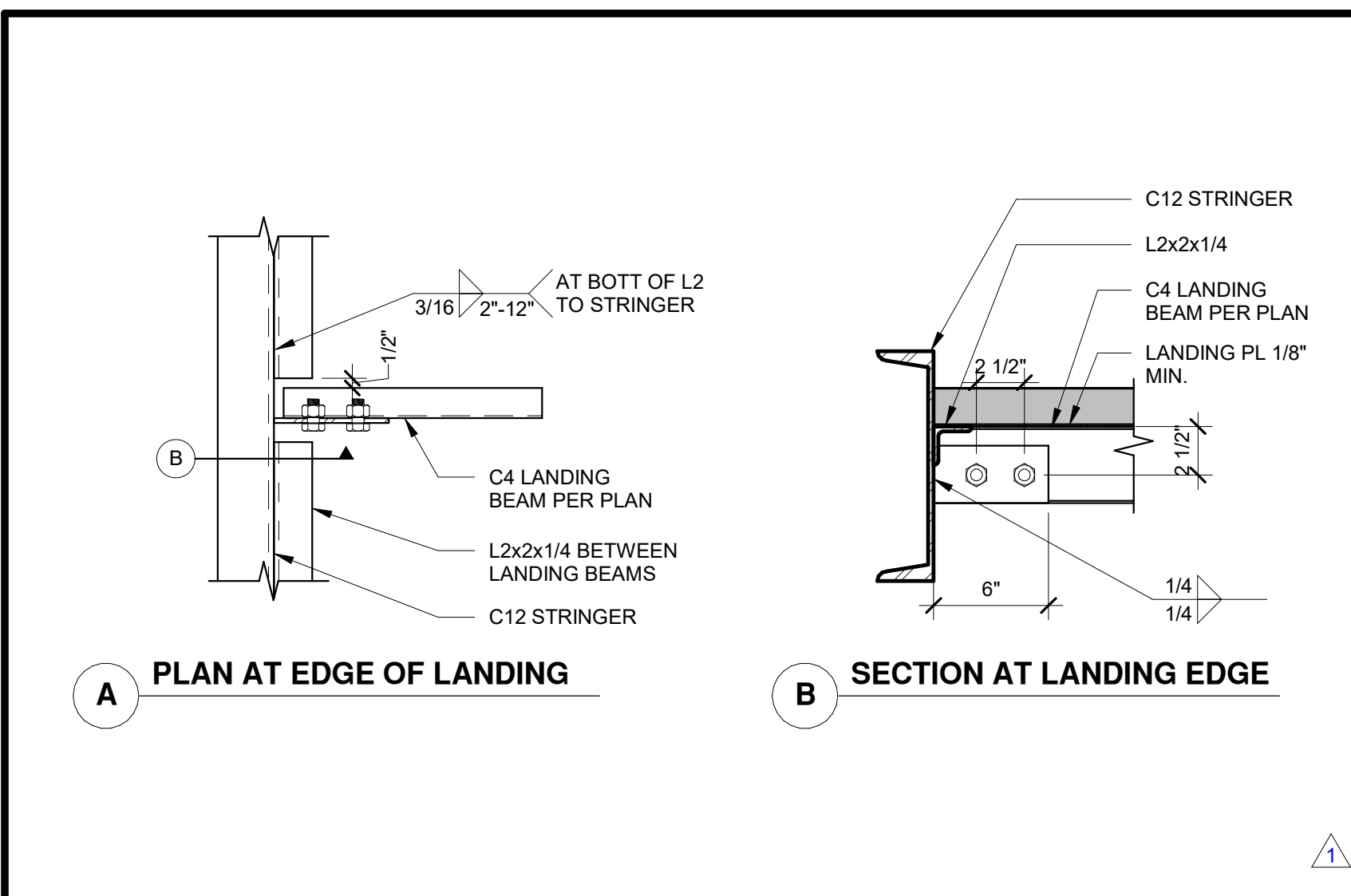
FRAMING LEGEND	
□ ○	STEEL COLUMN AS NOTED
----	STEEL STUD WALLS BELOW FRAMING
—	STEEL BEAM AS NOTED
BF-X.X	BRACED FRAME AS NOTED

AGENCY APPROVAL	
<p>CSU The California State University OFFICE OF FIRE SAFETY</p> <p>CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY</p> <p>Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.</p> <p>Approved by: <i>[Signature]</i> 07/18/2023 CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel</p>	

<p>AMG</p> <p>26535 SUMMIT CIRCLE SANTA CLARITA, CA 91350 TEL (661) 251-7401</p>	
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<p>CONSULTANTS</p> <p>CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 FIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896</p> <p>LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 92103 TEL (760) 220-6811</p> <p>STRUCTURAL ENGINEER 195X STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210</p> <p>MECHANICAL ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005</p> <p>ELECTRICAL ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005</p>	
<p>ARCHITECT STAMP</p> <p><i>[Signature]</i> C-22414 REV 10-31-23 STATE OF CALIFORNIA</p>	<p>CONSULTANT STAMP</p> <p><i>[Signature]</i> No. 4313 Exp. 9/30/24 STATE OF CALIFORNIA 05/30/2023</p>
<p>PROJECT OWNER & TITLE</p> <p>CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93401</p>	
<p>CAL POLY TECH PARK - PHASE 2 1499 San Luis Drive San Luis Obispo, CA 93401</p>	
<p>SHEET TITLE</p> <p>ROOF FRAMING PLAN</p>	
<p>DRAWN BY: JHR JOB NUMBER: 21179.01</p>	
<p>SHEET NO.</p> <p>S-203</p>	
<p>DATE: APRIL 20, 2023</p>	

CONSTRUCTION DOCUMENTS

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Approved by: *[Signature]* 07/18/2023
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REV 10-31-23
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REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
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1499 San Luis Drive
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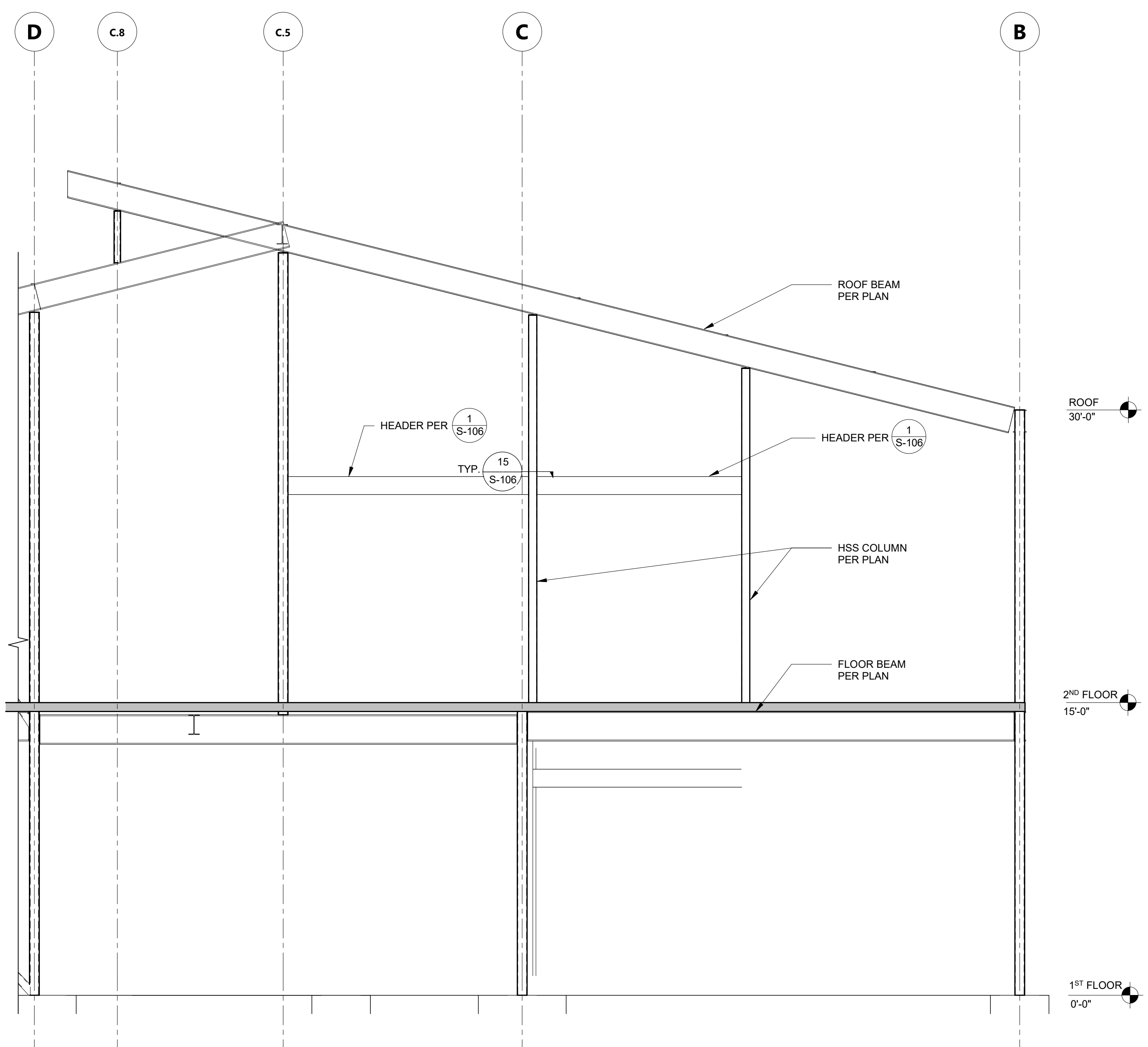
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ENLARGED STAIR FRAMING PLANS AND DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

SHEET NO.
S-204

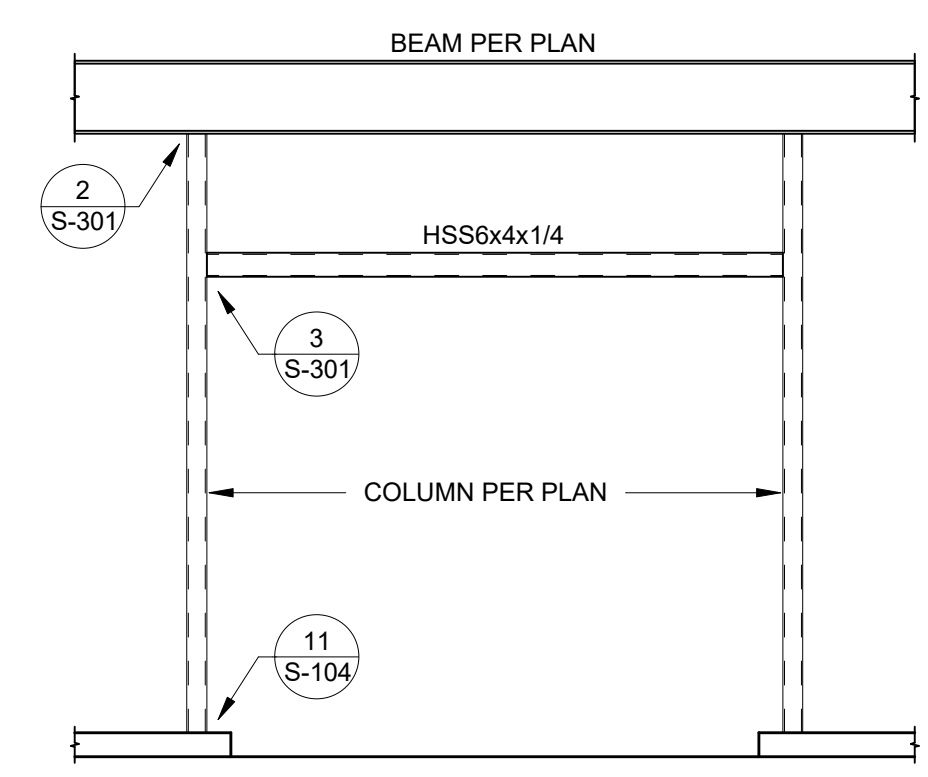
DATE: APRIL 20, 2023

CONSTRUCTION DOCUMENTS



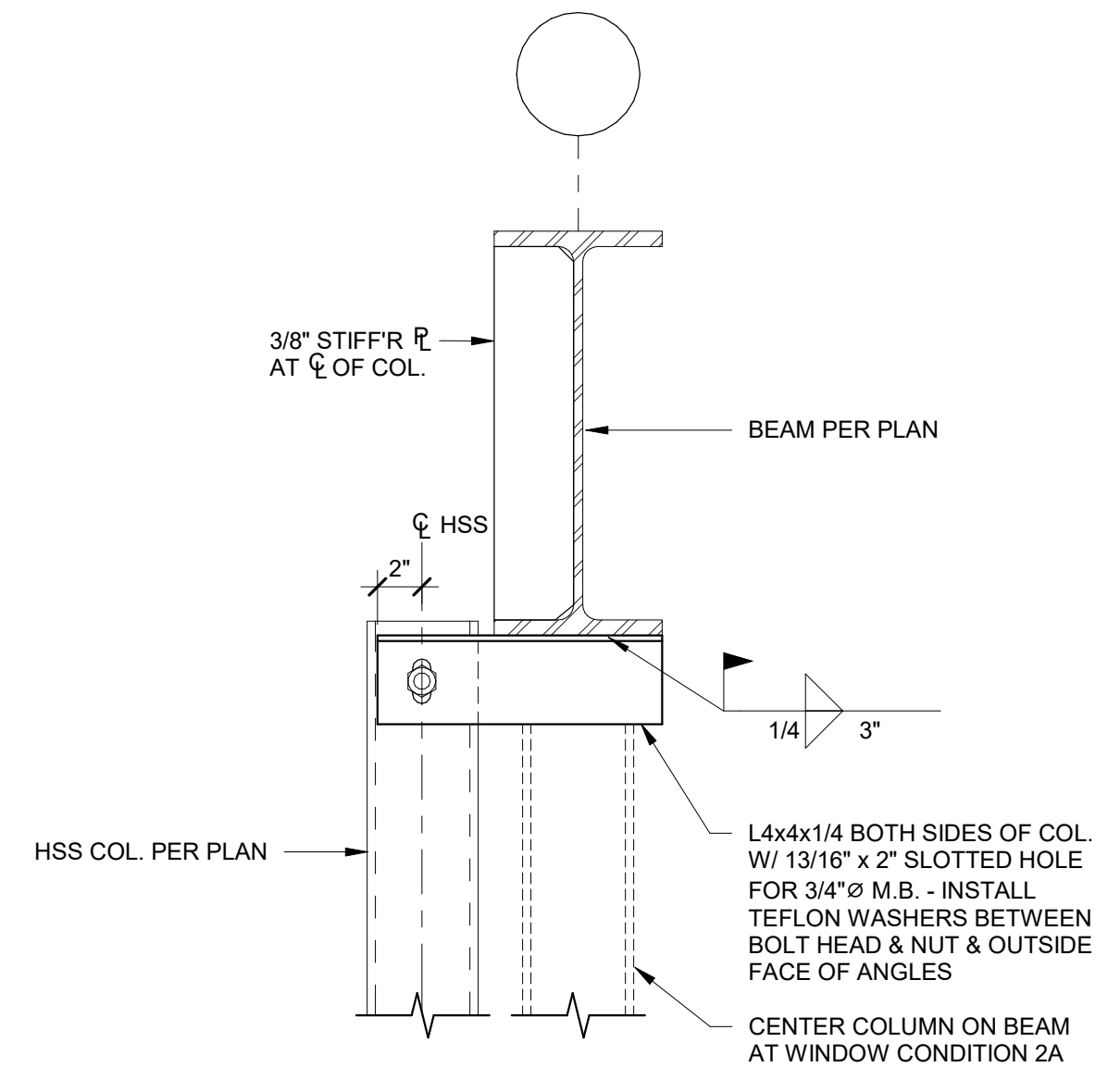
NORTH ELEVATION SCHEMATIC FRAMING ELEVATION

1/4" = 1'-0" **4**



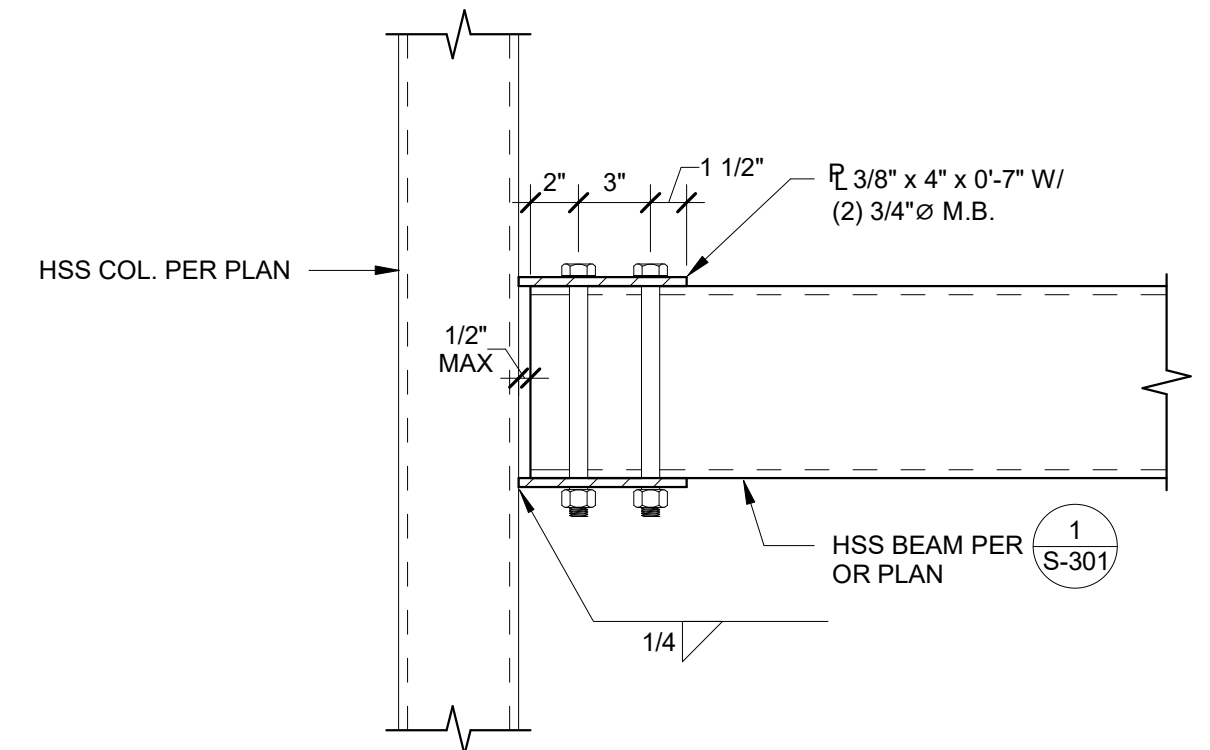
OVERHEAD DOOR FRAMING ELEVATION

N.T.S. **1**



COLUMN TO BEAM BRACE

N.T.S. **2**



COLUMN TO BEAM CONNECTION

N.T.S. **3**

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[Stamp: Alex Kosh, C-22414, State of California]

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[Stamp: Jeffrey E. Haidt, No. 4313, Exp. 9/30/24, State of California]

NO.	DATE	DESCRIPTION
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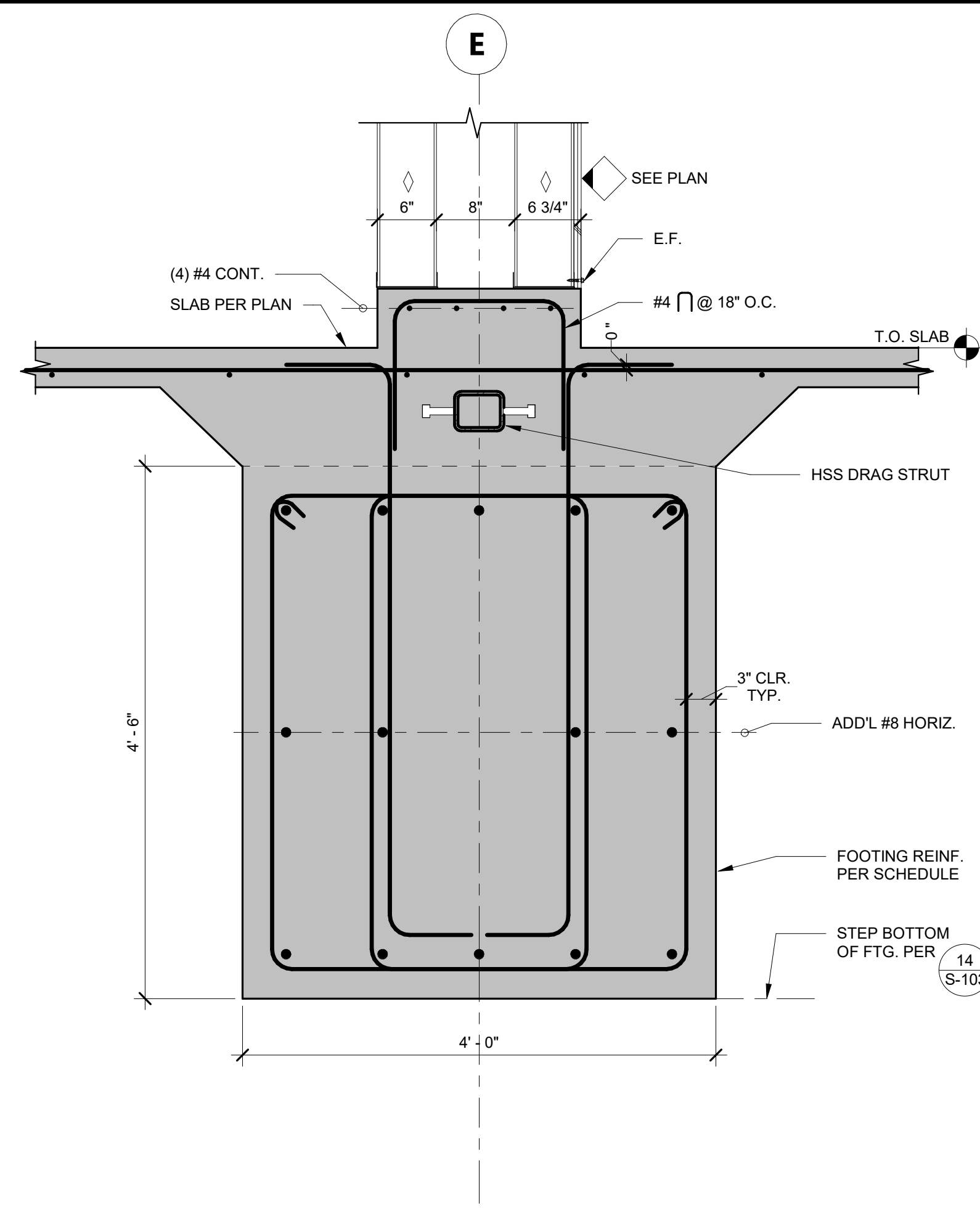
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DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01
SHEET NO.
S-301
DATE: APRIL 20, 2023

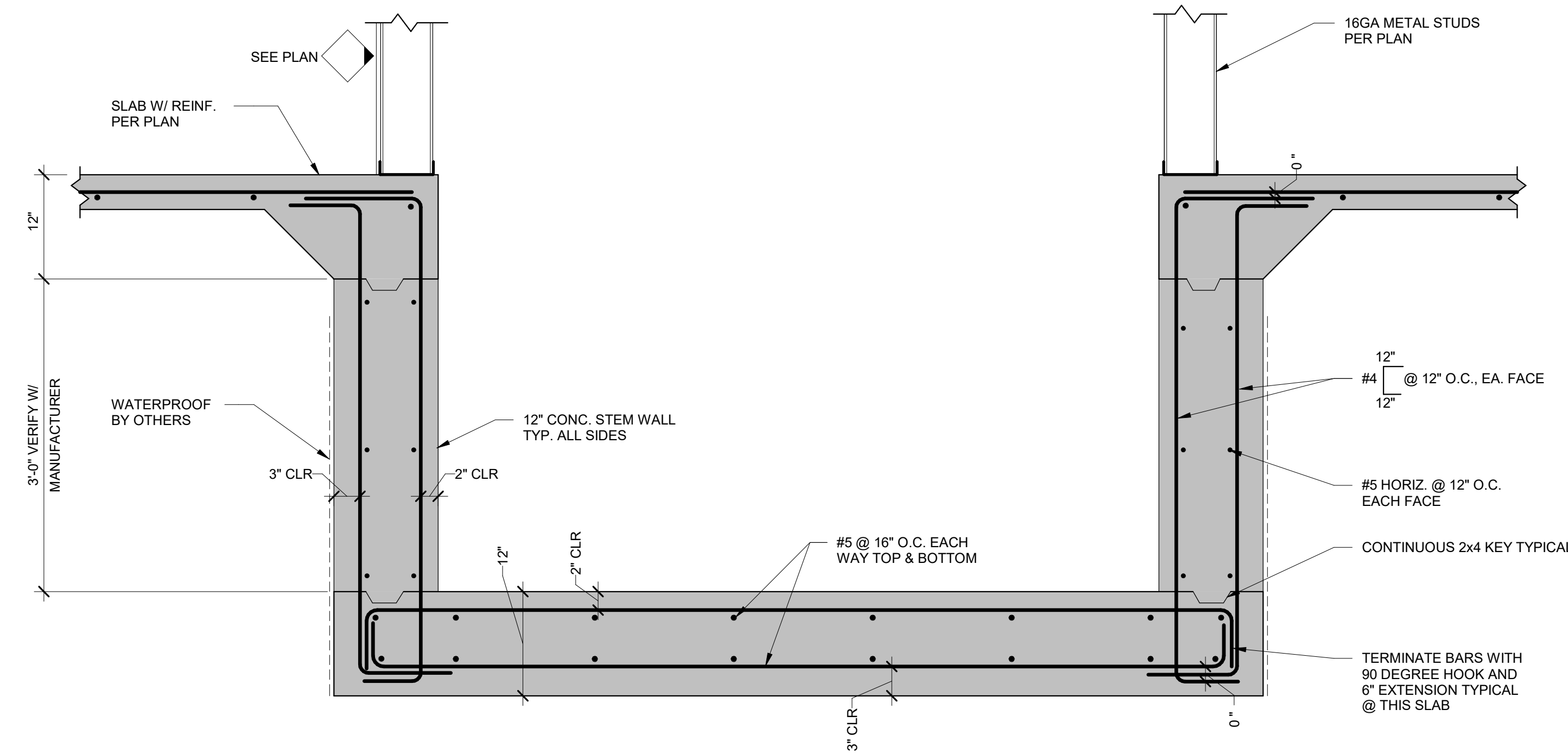
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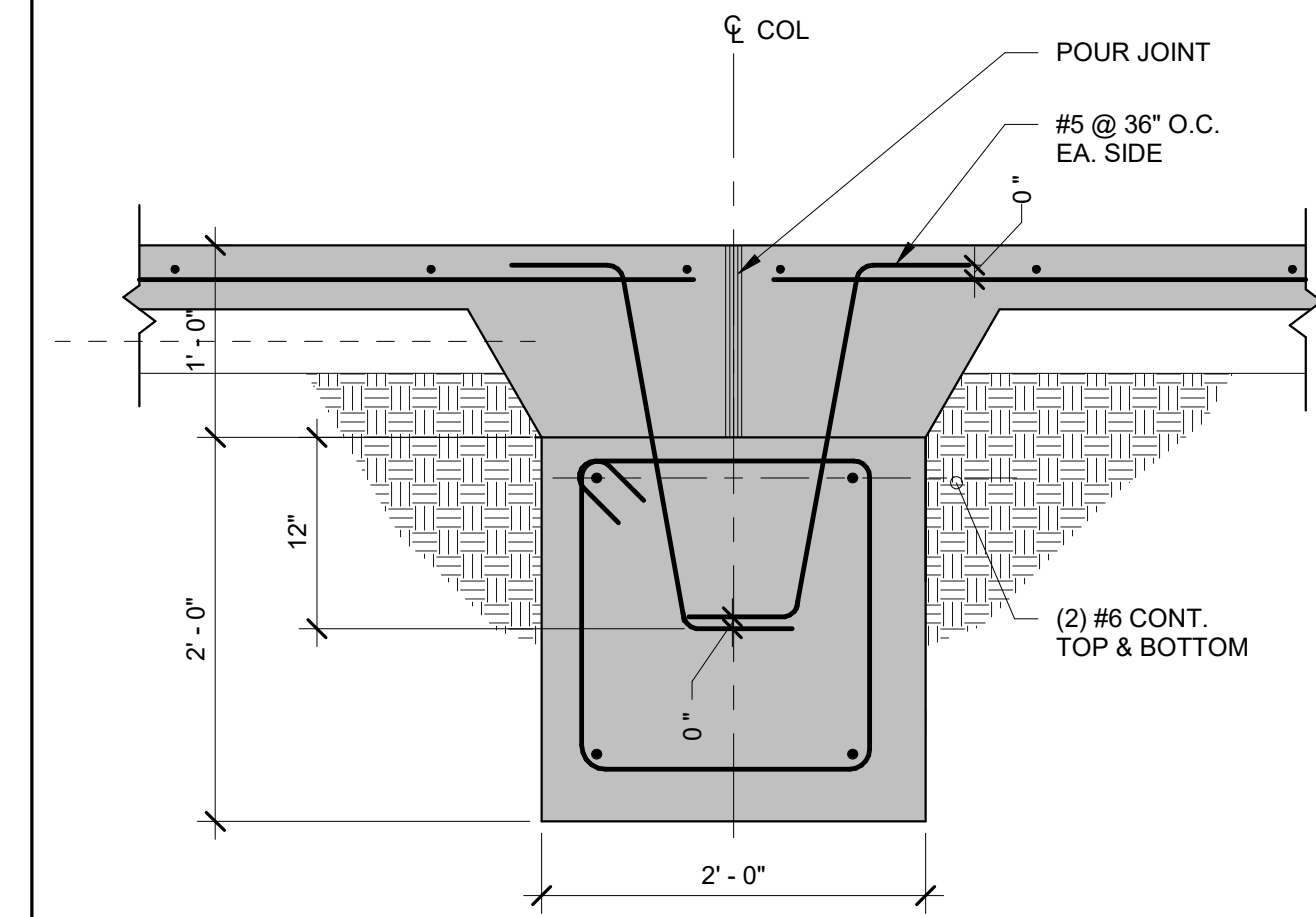
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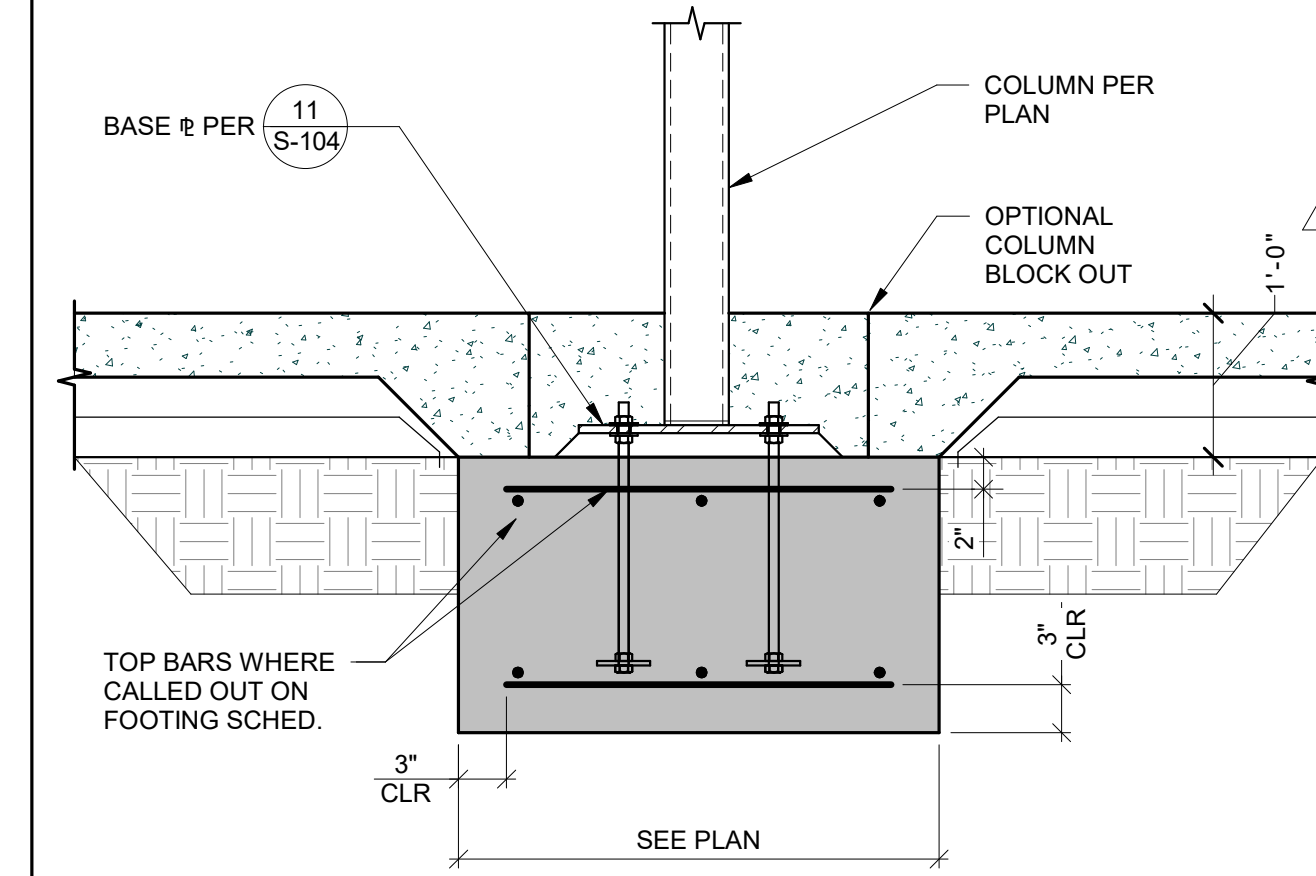
GRADE BEAM SECTION
RE: 1.9-202 1" = 1'-0" 7



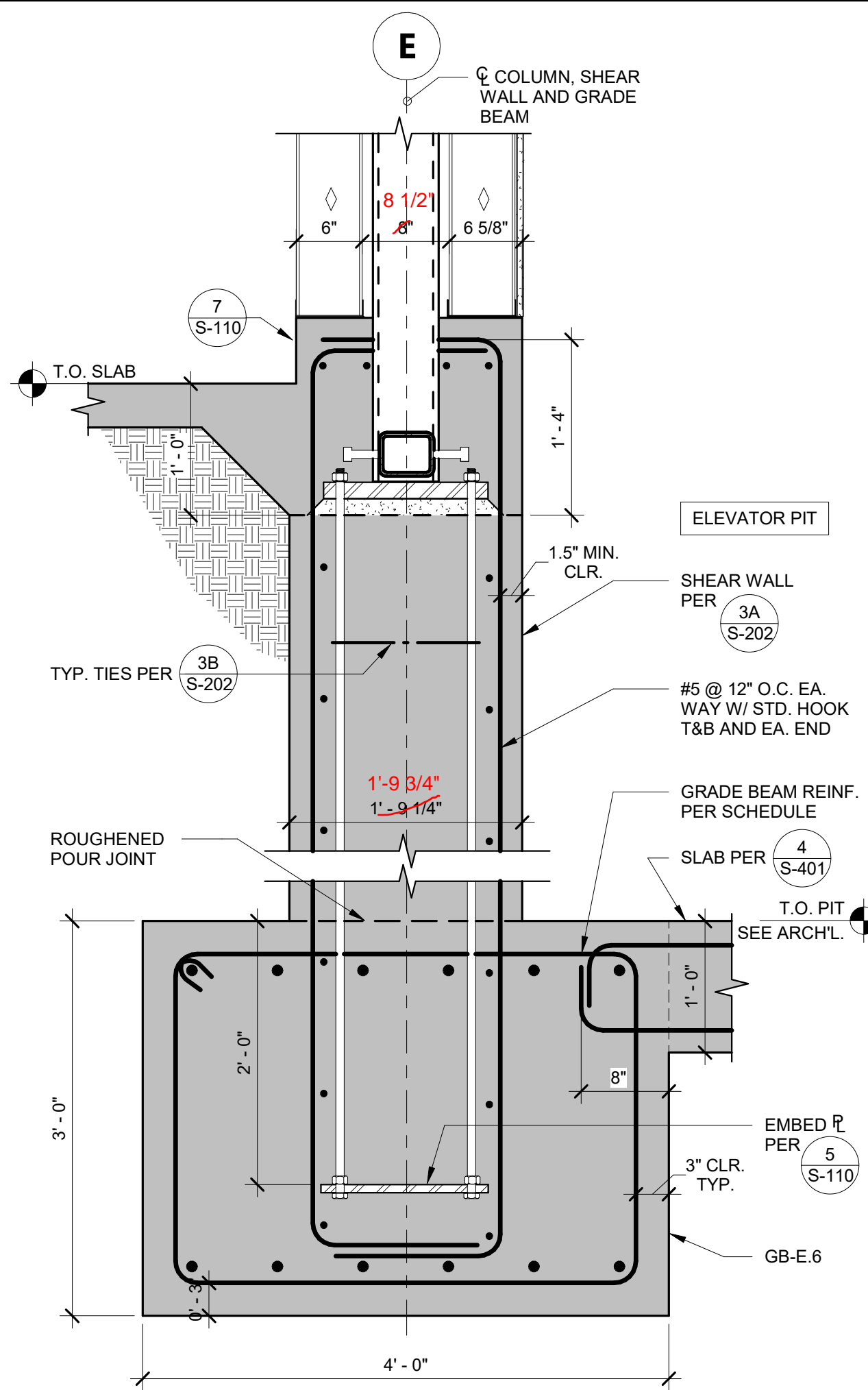
ELEVATOR PIT SECTION
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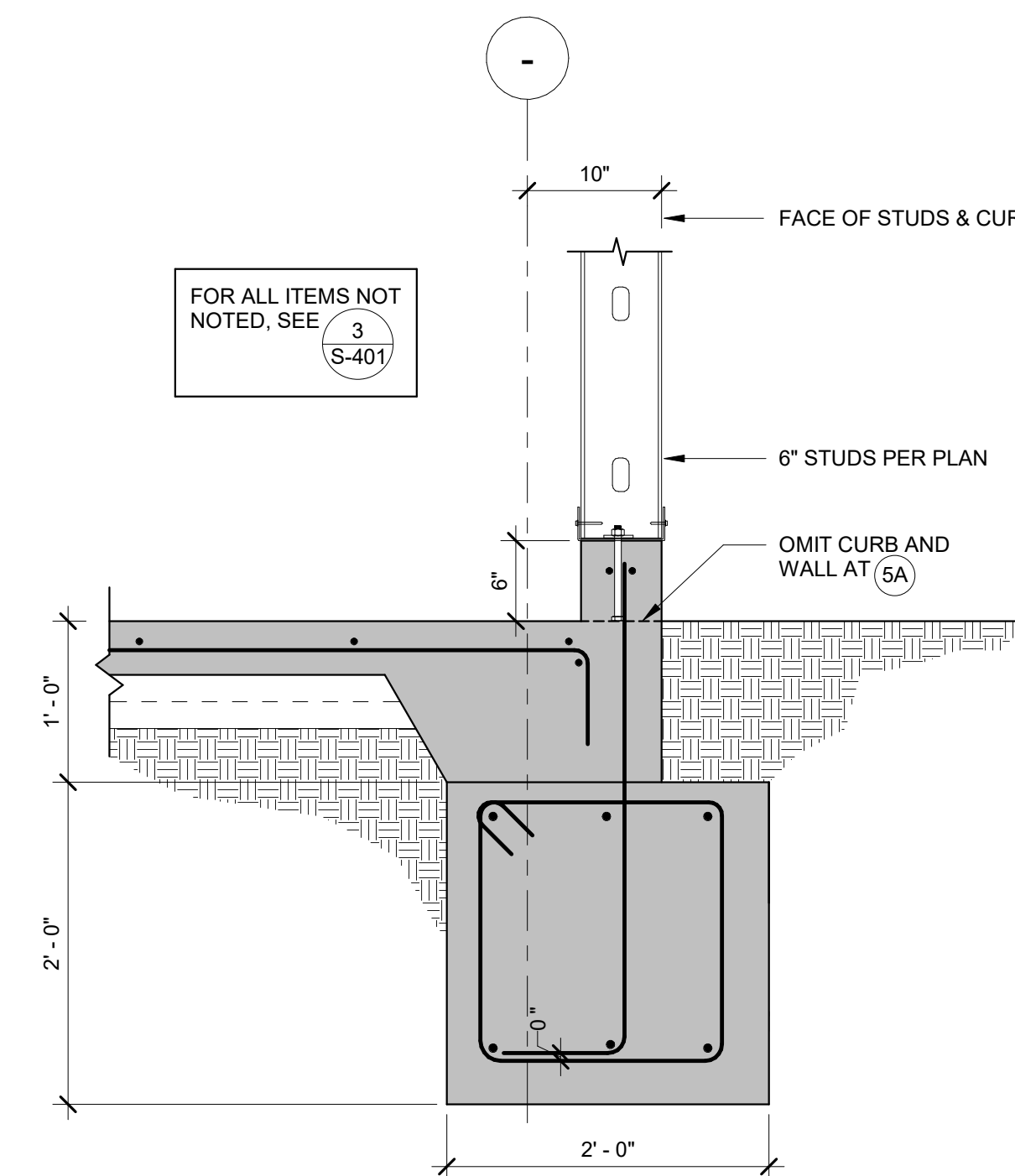
TIE BEAM AT SLAB 1" = 1'-0" 1



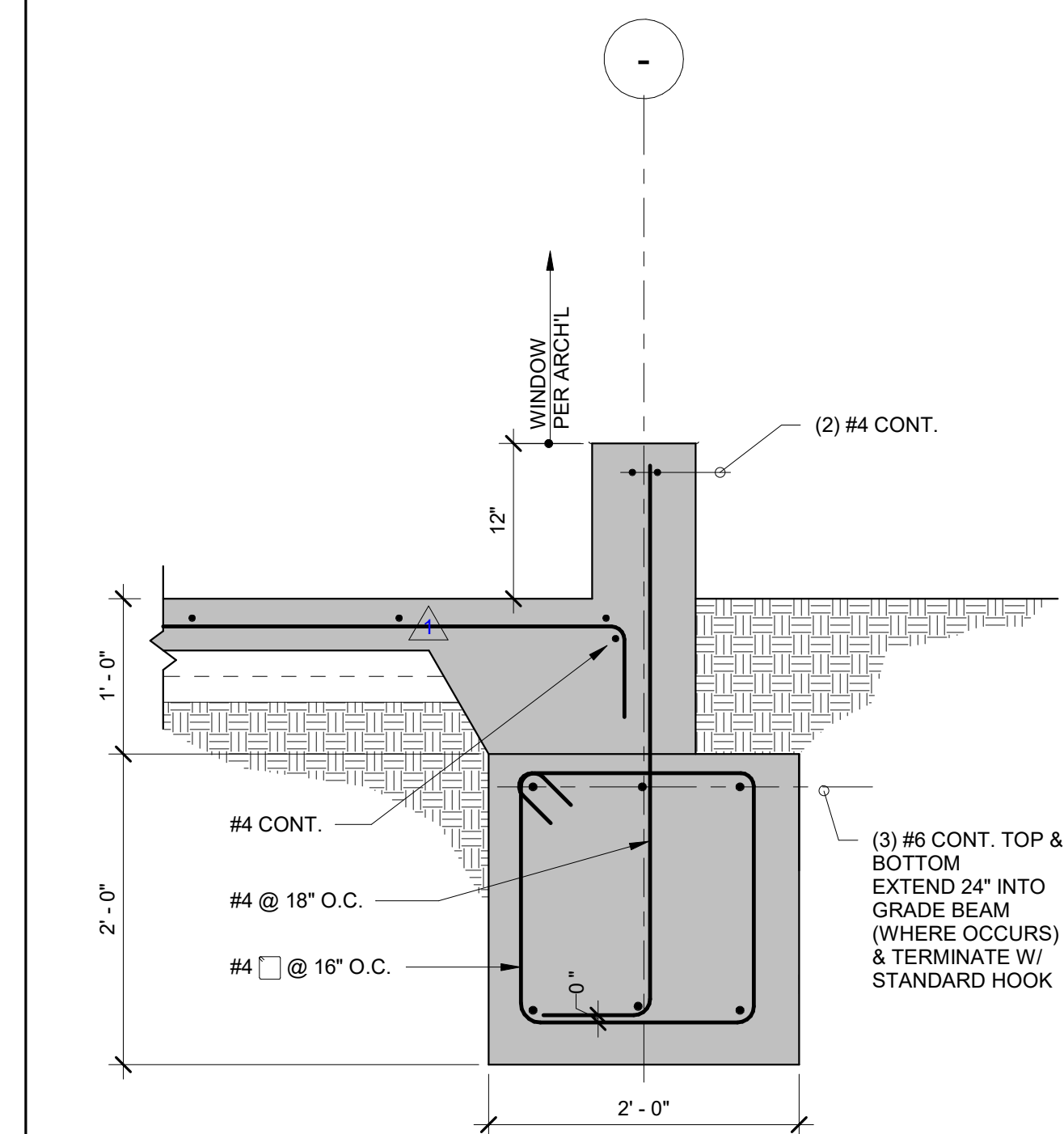
COLUMN PAD FOOTING N.T.S. 2



BRACE SHEAR WALL SECTION
RE: 1.9-202 1" = 1'-0" 6



FOUNDATION AT WALL N.T.S. 5



FOUNDATION AT WINDOW N.T.S. 3

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CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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STATE OF CALIFORNIA
05/30/2023

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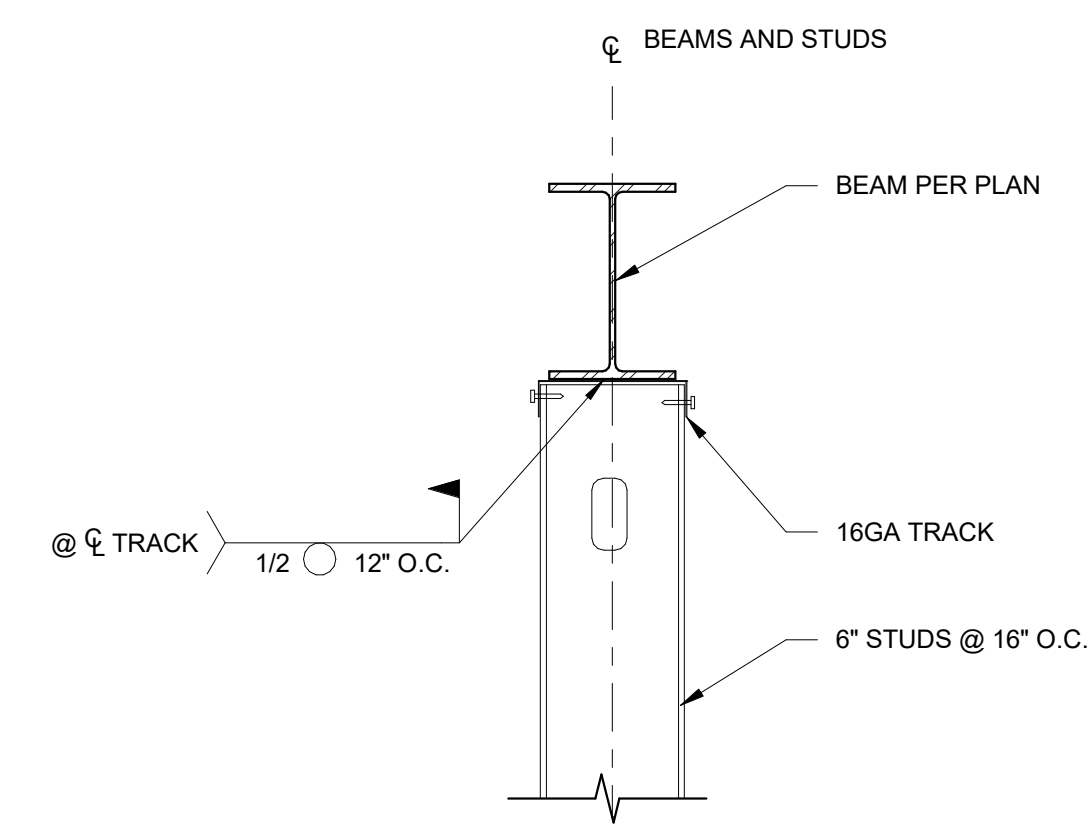
SHEET TITLE
FOUNDATION DETAILS

DRAWN BY: JHR JOB NUMBER: 21179.01

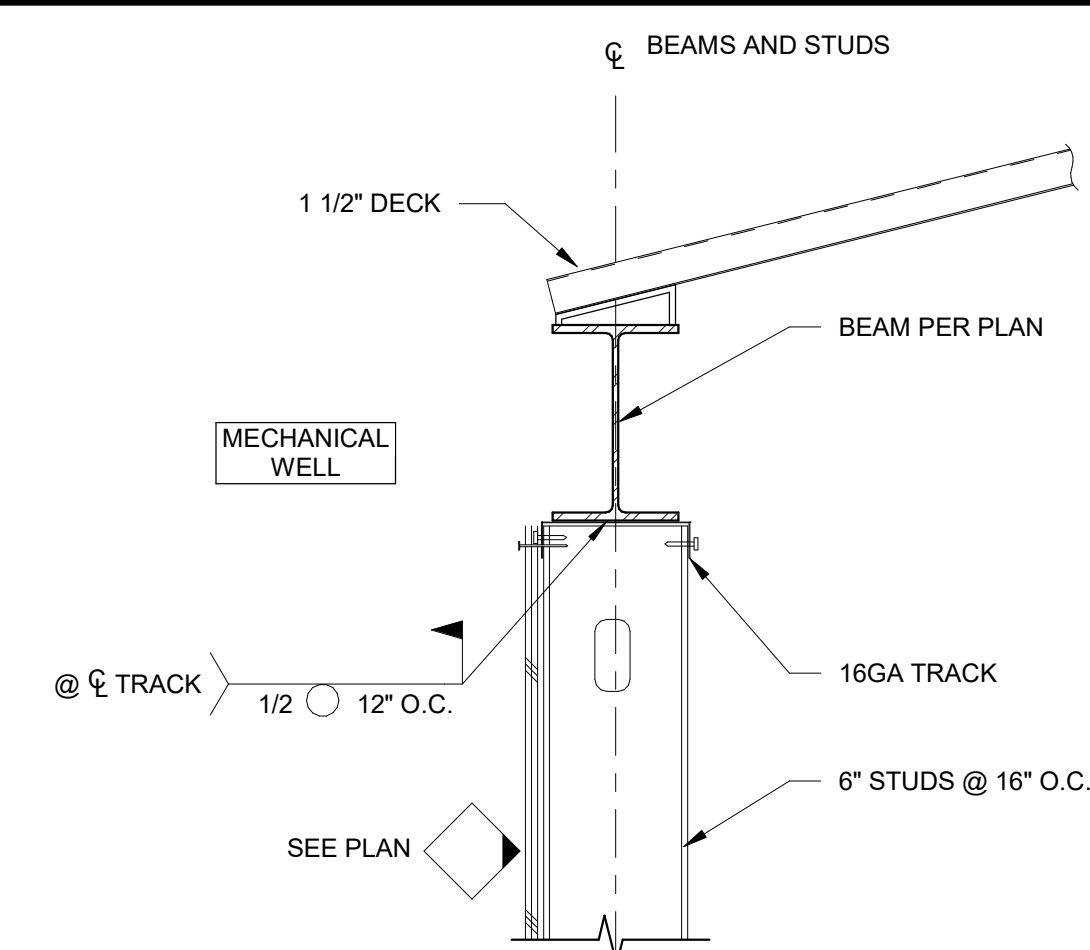
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DATE: APRIL 20, 2023

CONSTRUCTION DOCUMENTS

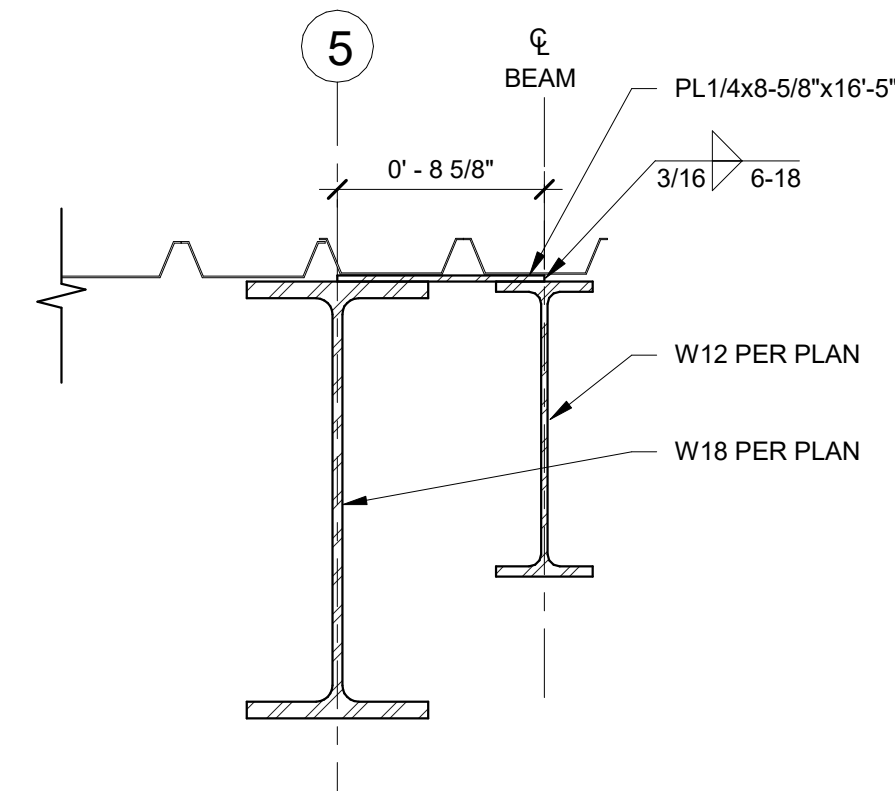
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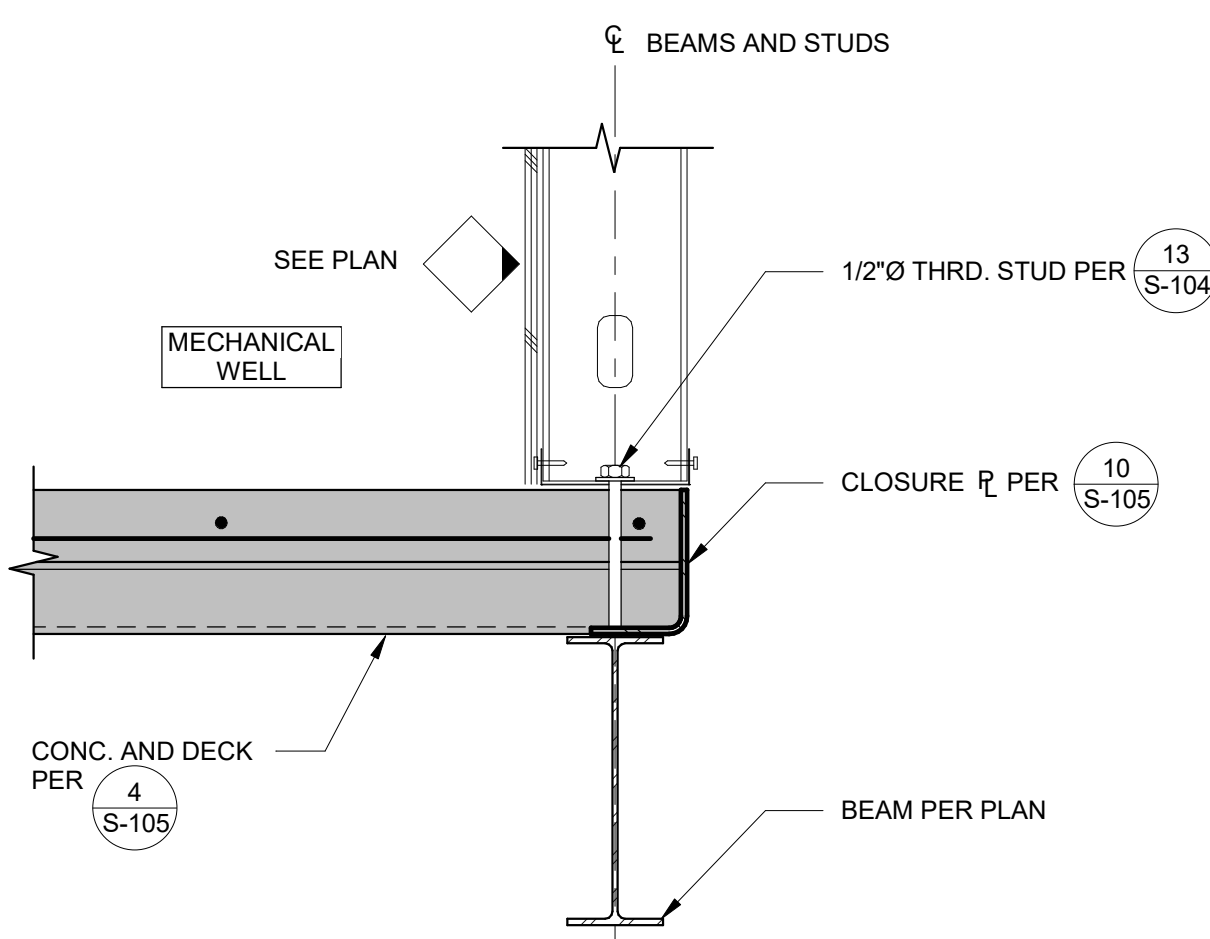
BEAM TO WALL CONNECTION ALT N.T.S. 12



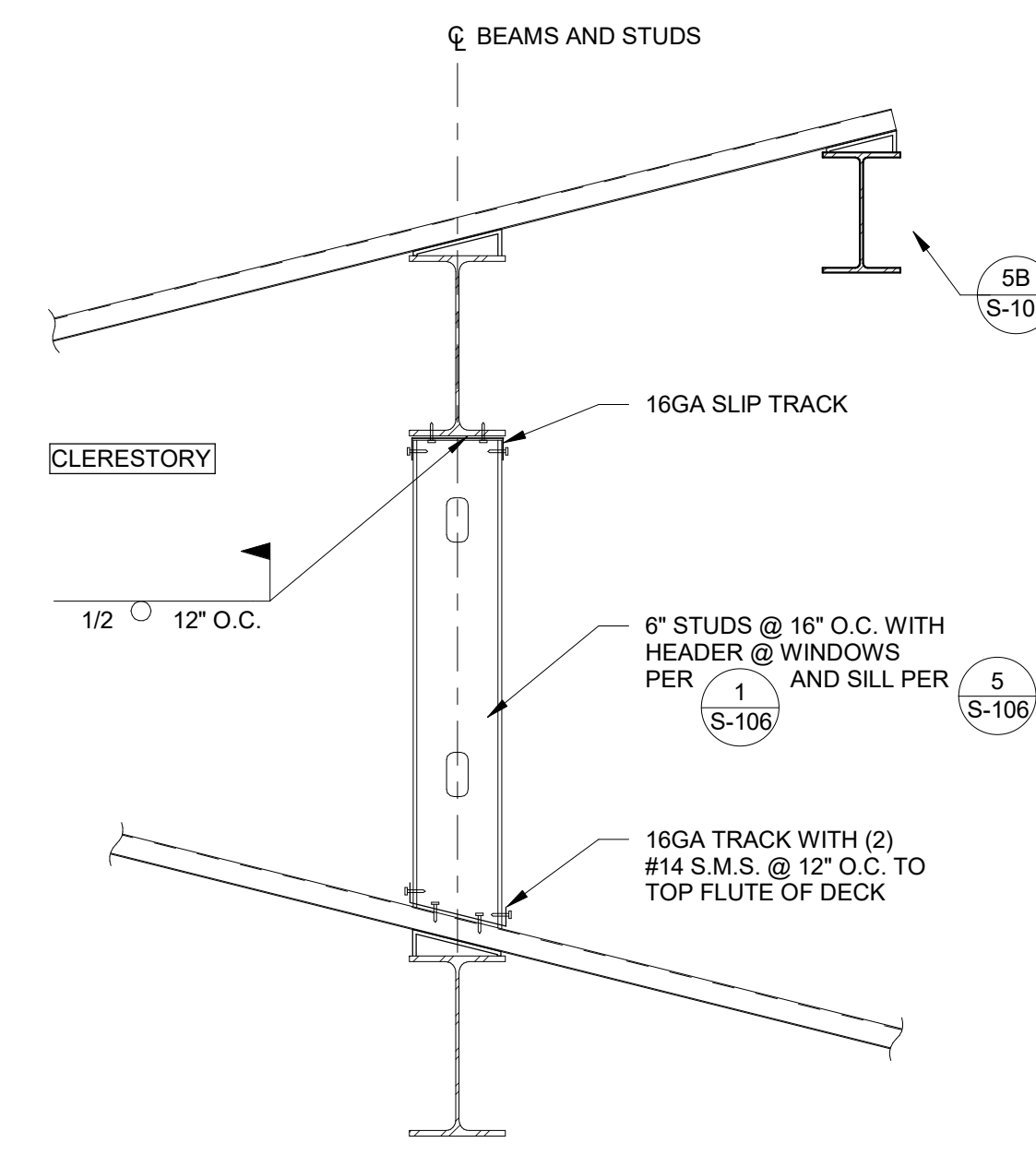
BEAM TO WALL CONNECTION 1 1/2" = 1'-0" 8



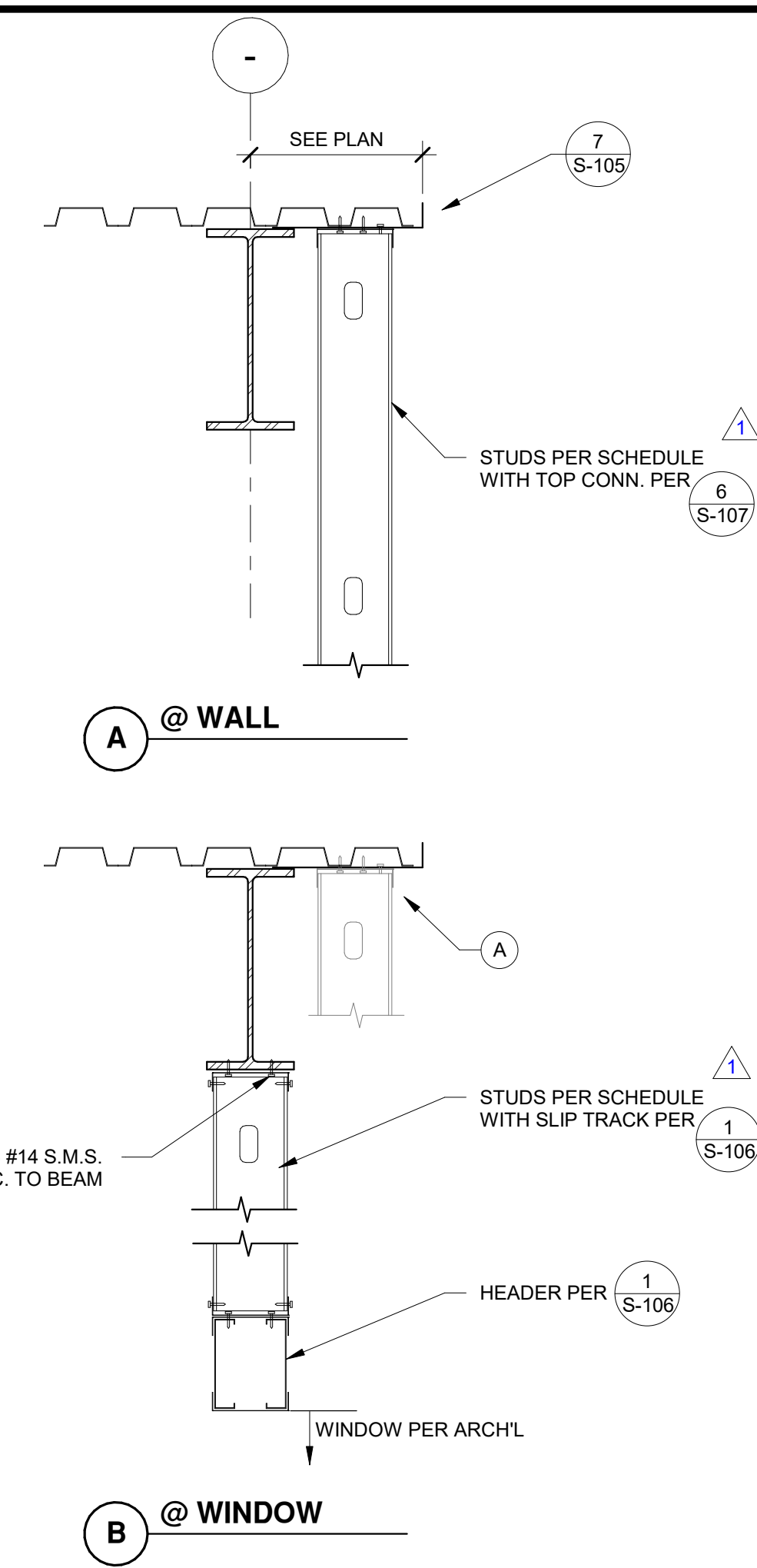
HIGH ROOF AT MECH. WELL DRAG 1 1/2" = 1'-0" 13



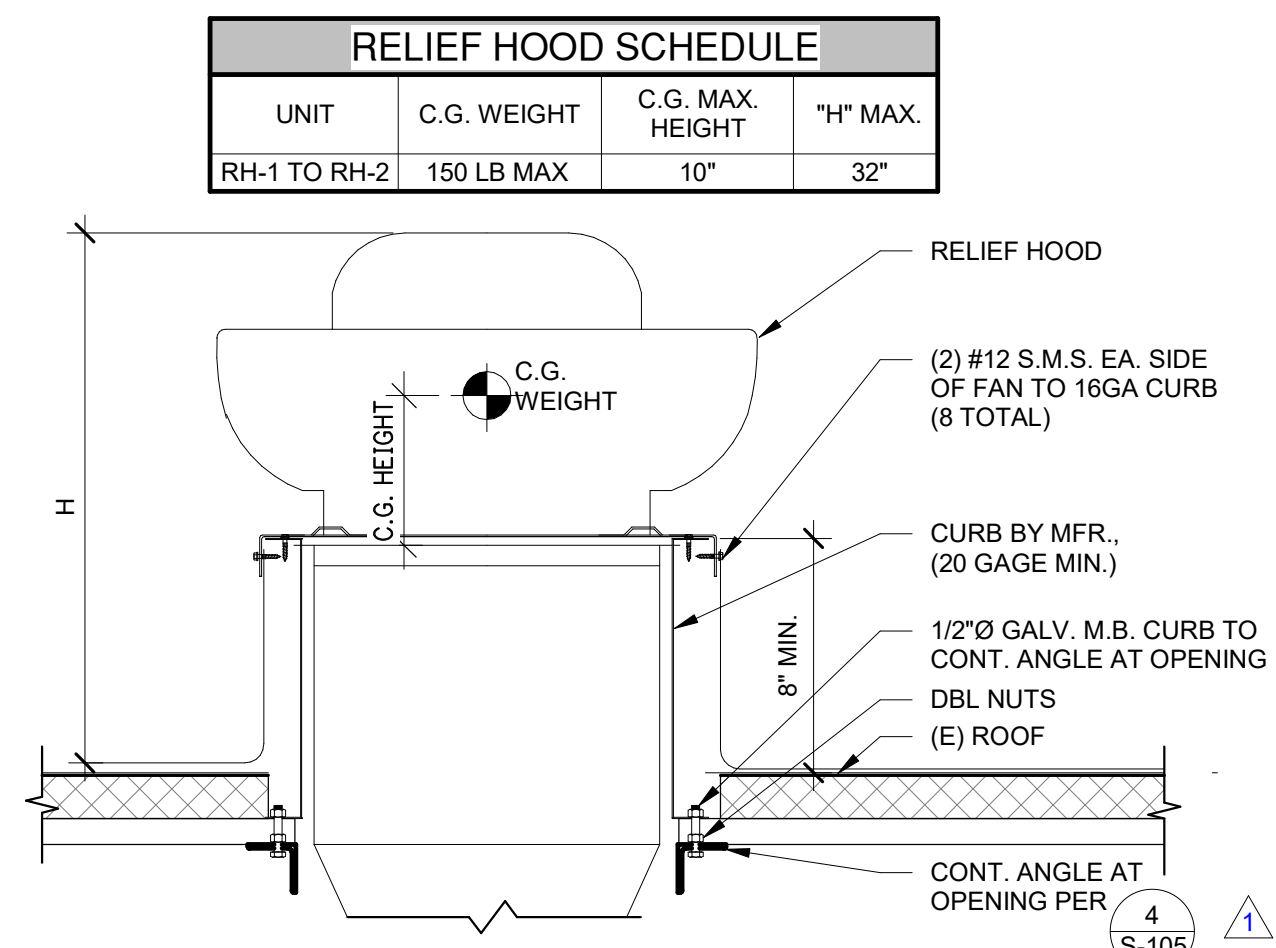
BOTTOM WALL CONNECTION 1 1/2" = 1'-0" 9



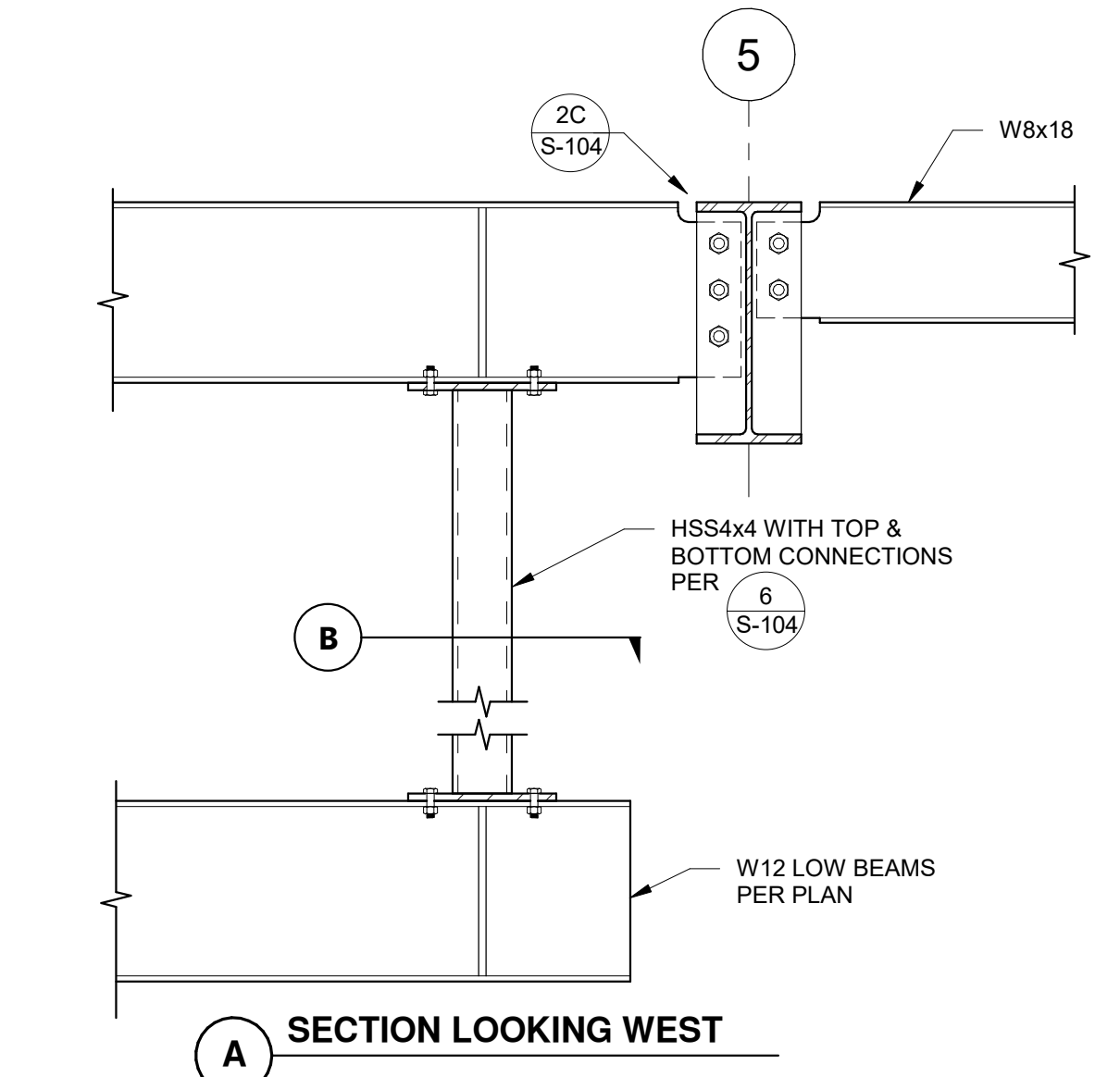
EAVE AT TOP 1" = 1'-0" 4



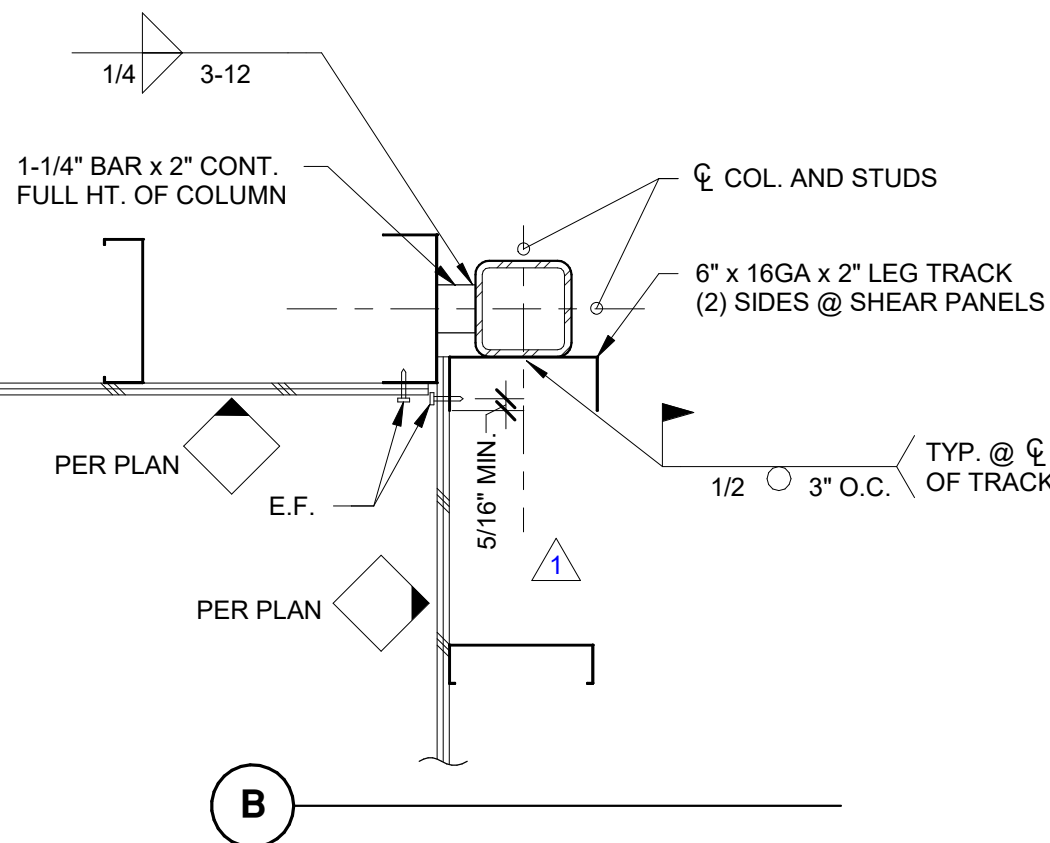
ROOF DECK PARALLEL EDGE 1" = 1'-0" 1



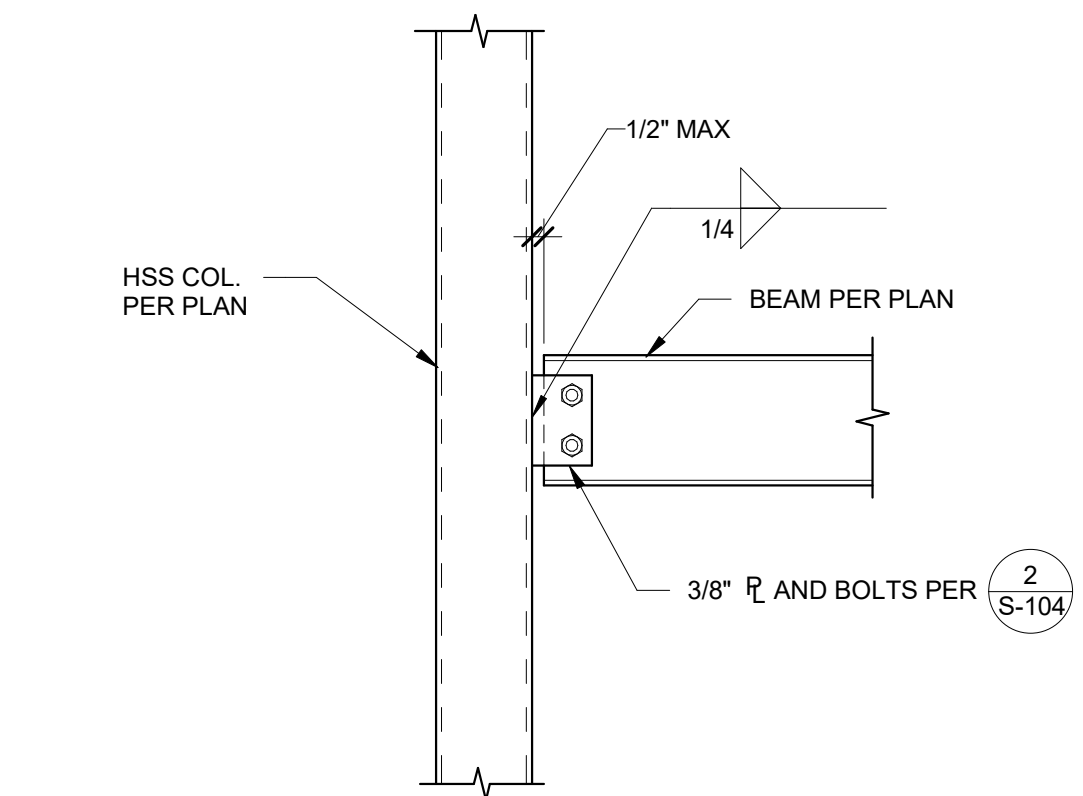
RELIEF FAN AT ROOF OPENING N.T.S. 14



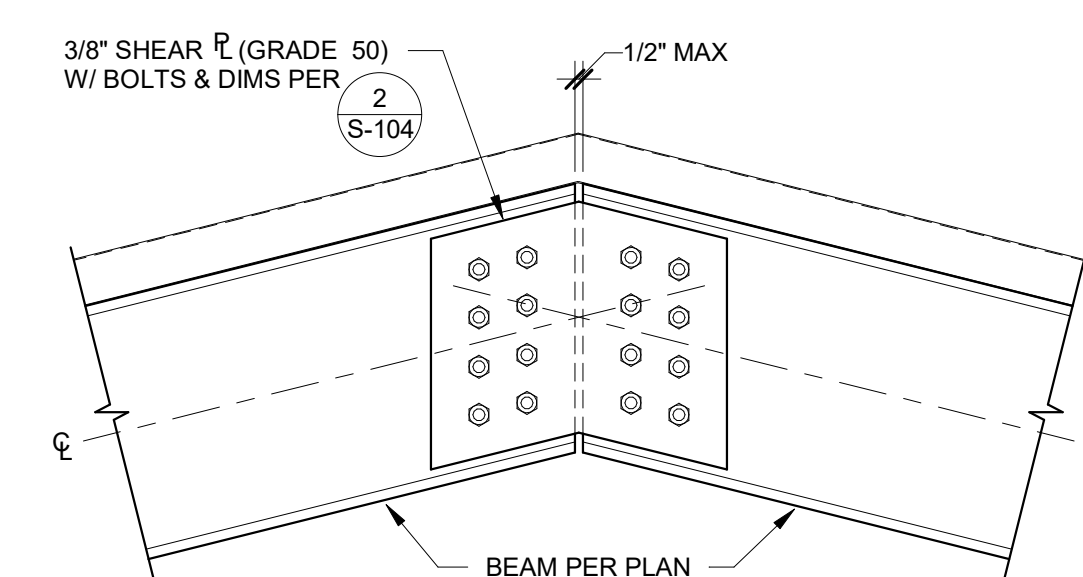
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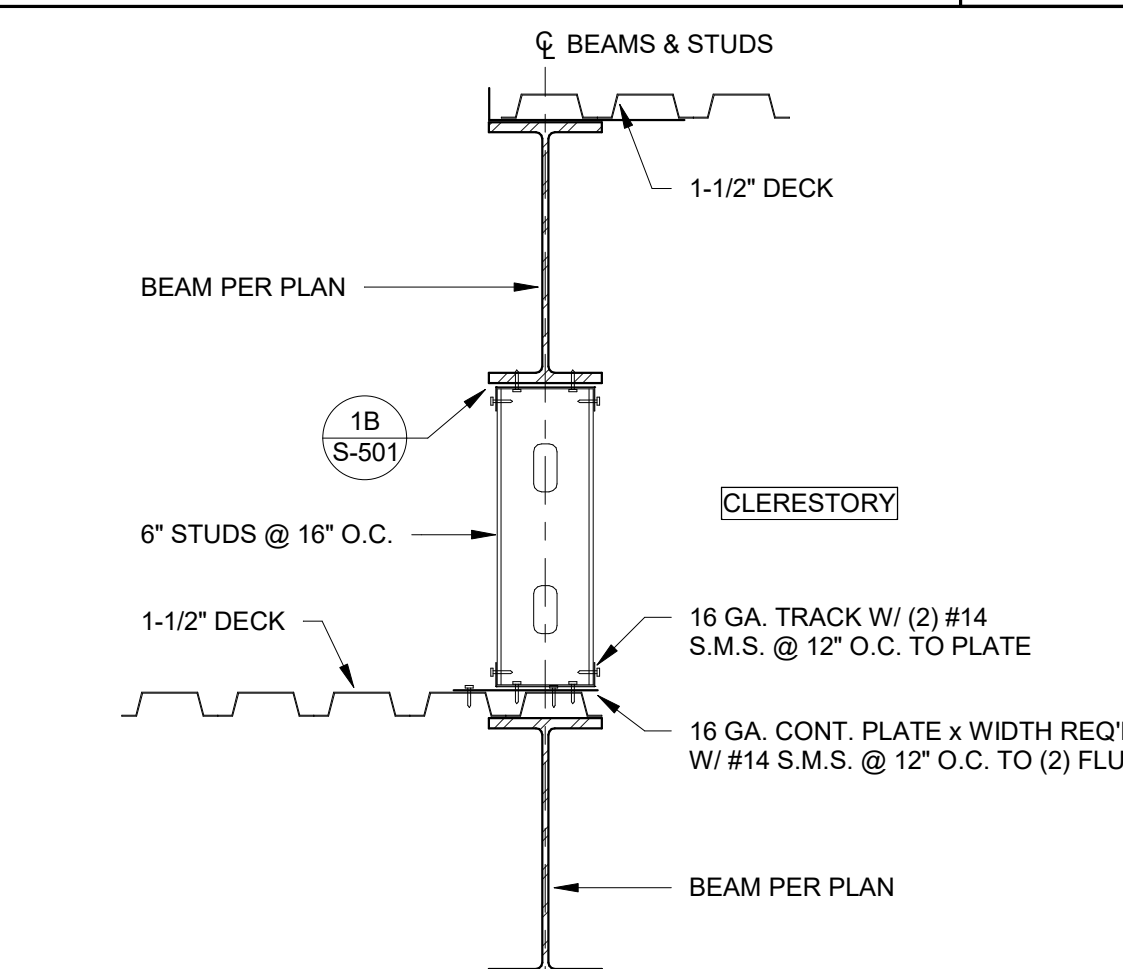
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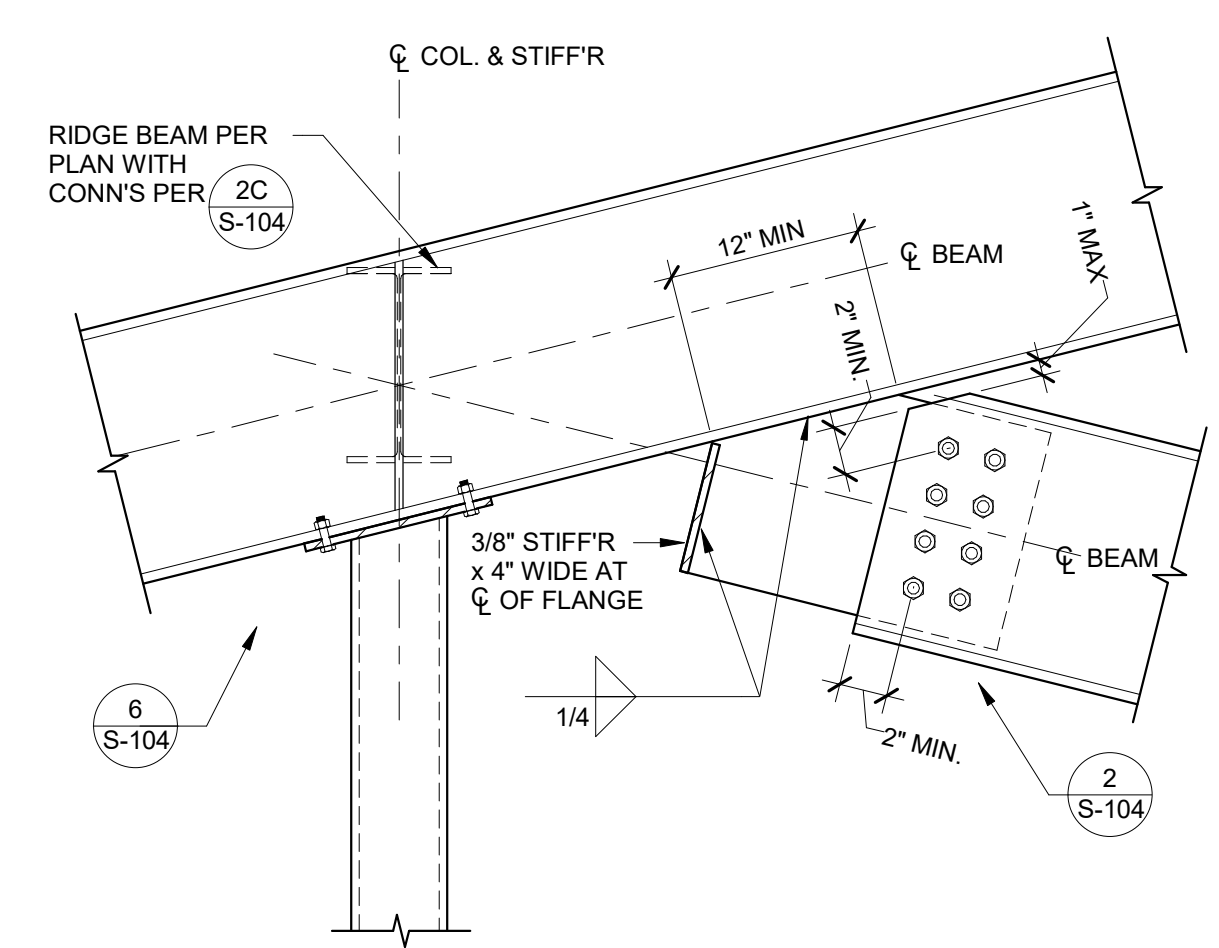
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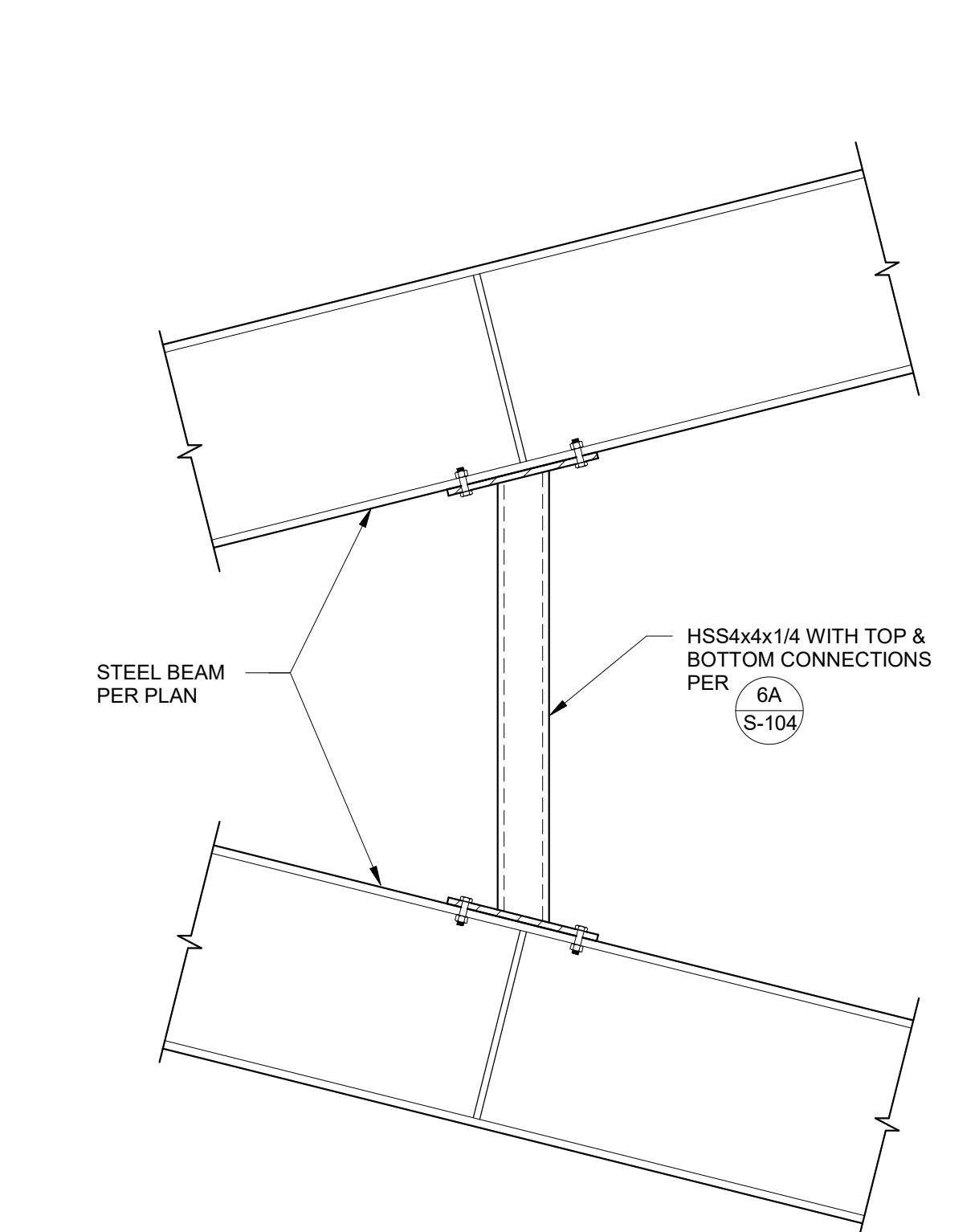
RIDGE BEAM CONNECTION 1" = 1'-0" 6



EXTERIOR WALL OFFSET DETAIL 1" = 1'-0" 7



BEAM TO BEAM RIDGE CONNECTION 1" = 1'-0" 2



VERTICAL SUPPORT AT CLERESTORY 1" = 1'-0" 3

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CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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No. 4313
Exp. 9/30/24
REV 10-31-23
STATE OF CALIFORNIA
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SHEET TITLE
ROOF FRAMING DETAILS

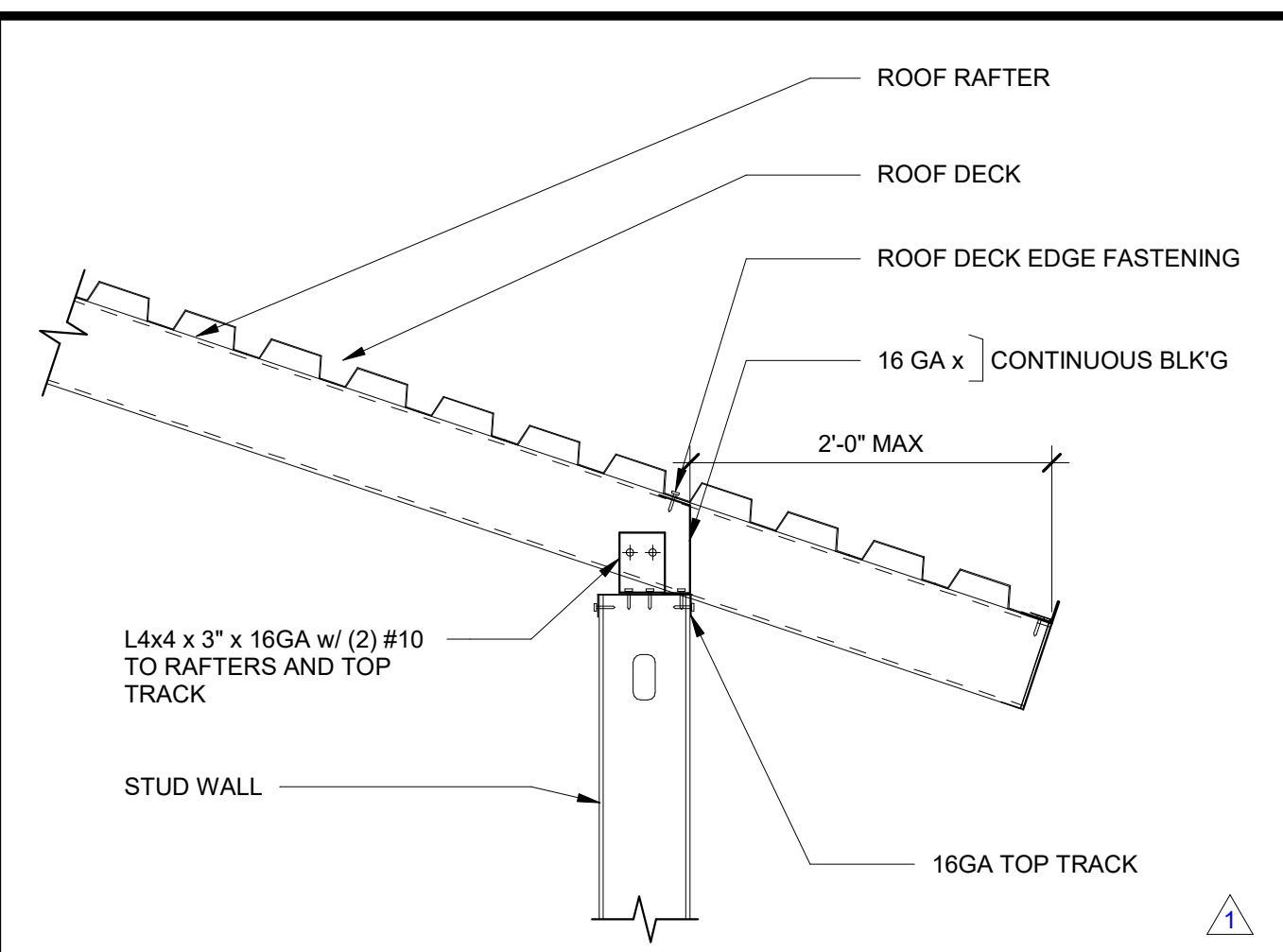
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SHEET NO.
S-501

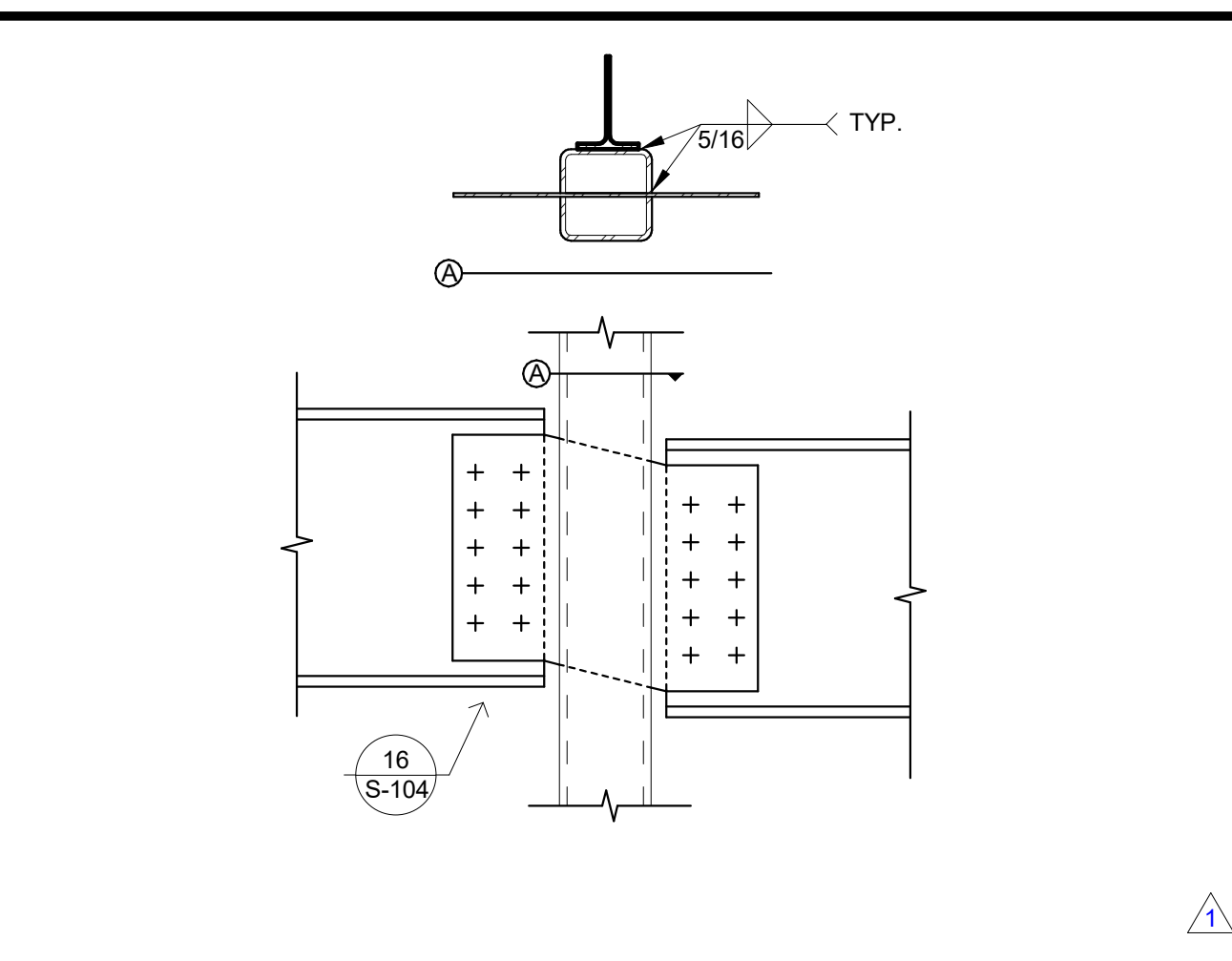
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CONSTRUCTION DOCUMENTS

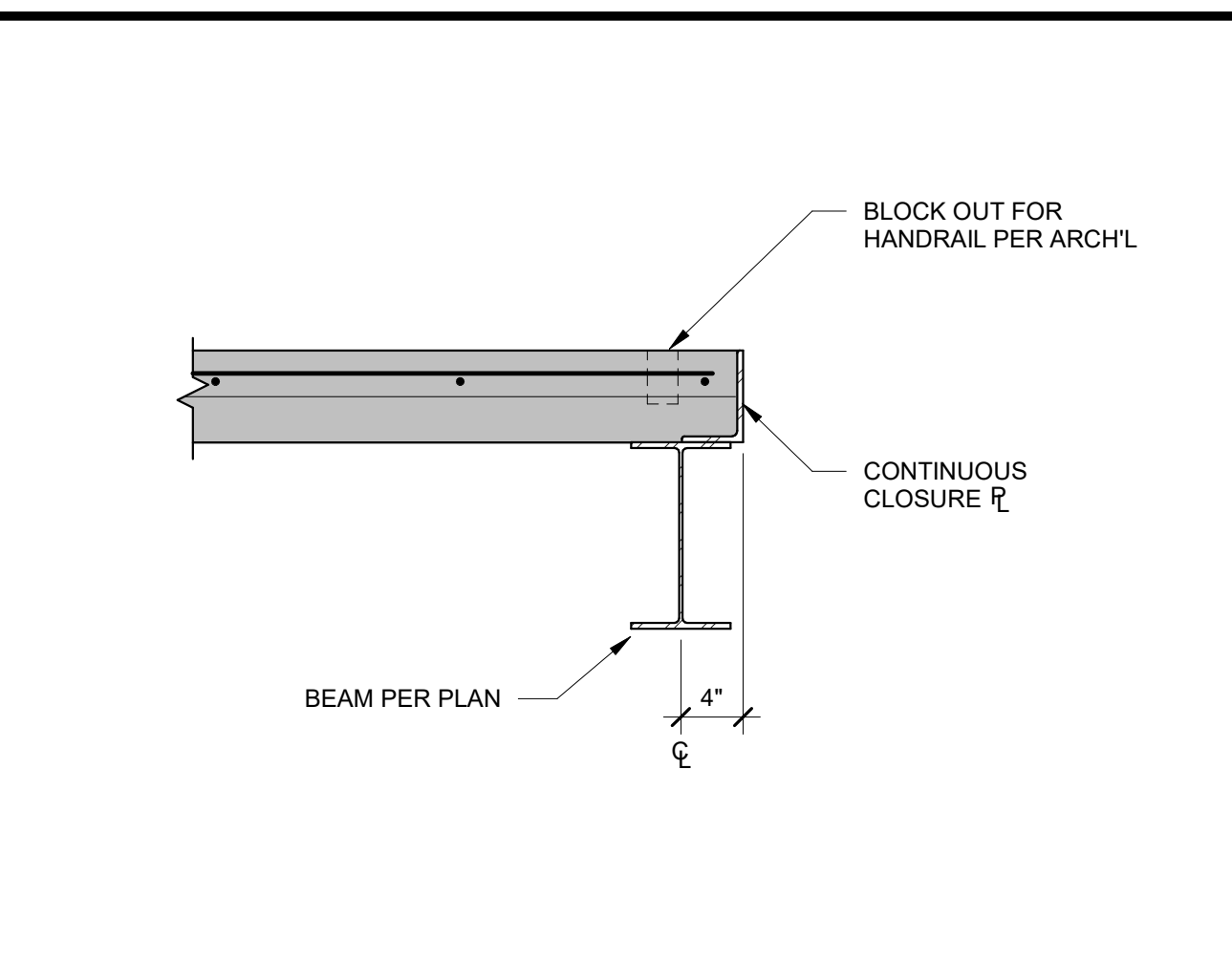
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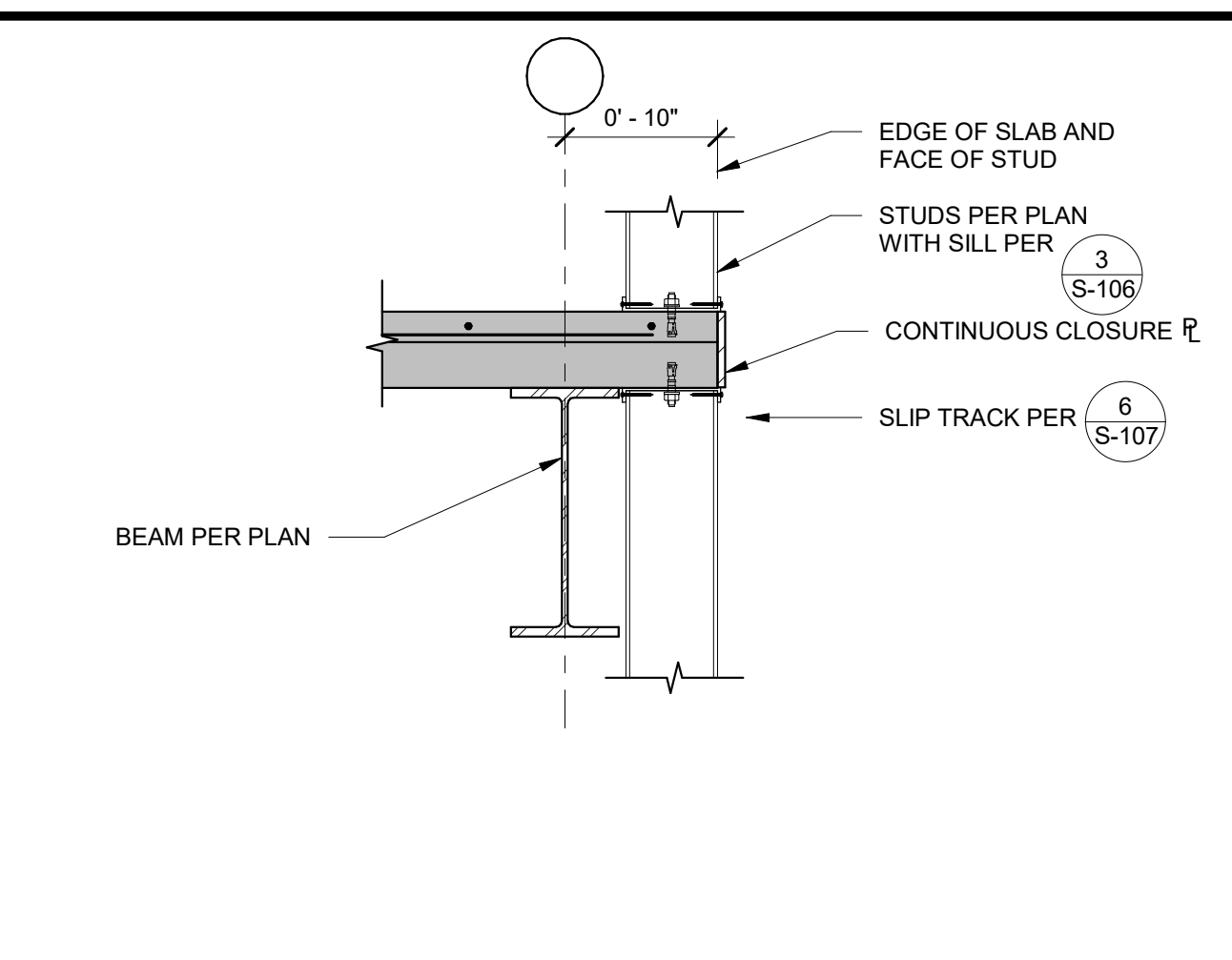
FRAMING @ LIGHT GAGE BEARING WALL RE: 11.9.202 1" = 1'-0" **15**



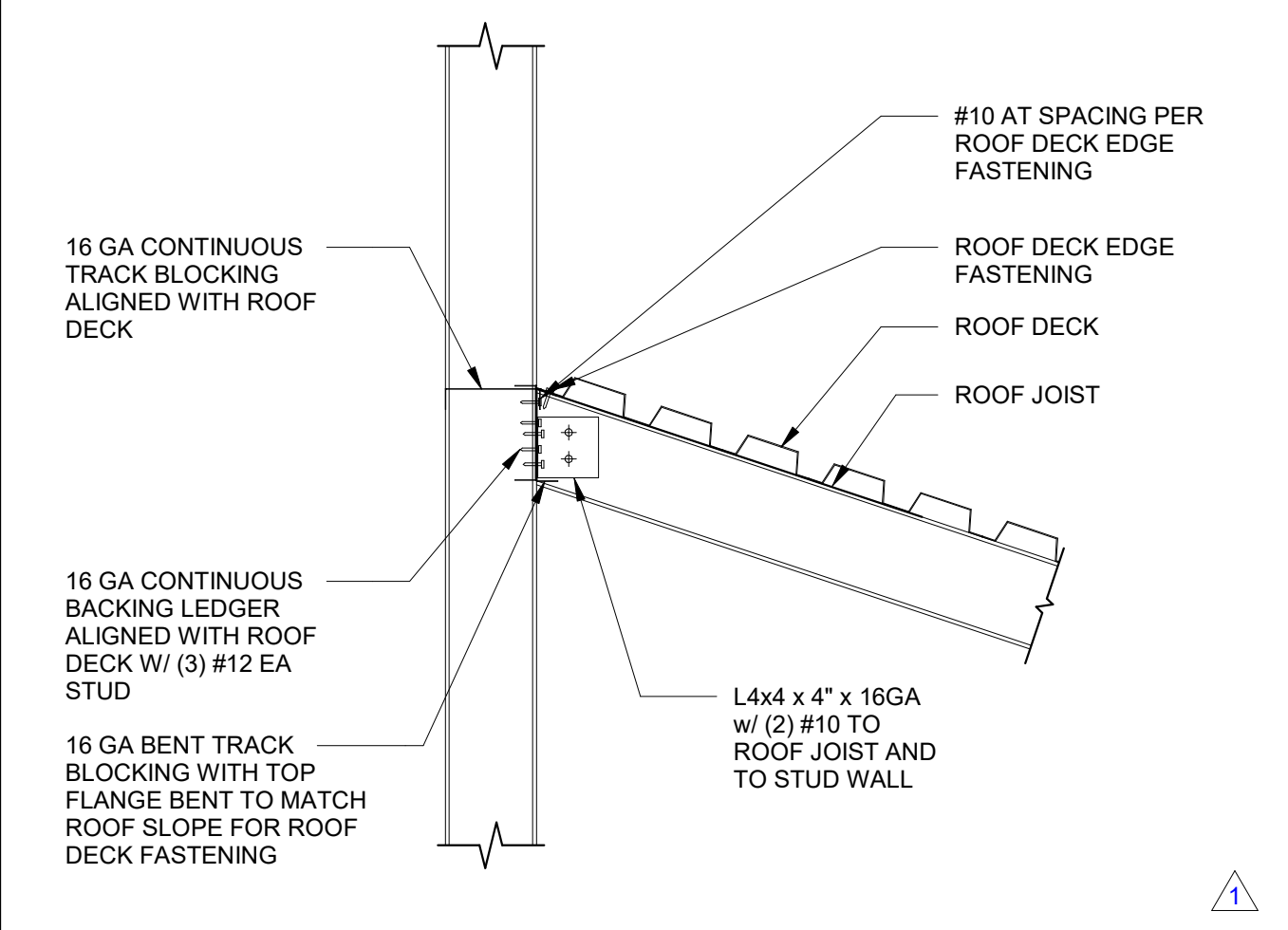
BEAM TO COLUMN @ LOWER DECK N.T.S. **11**



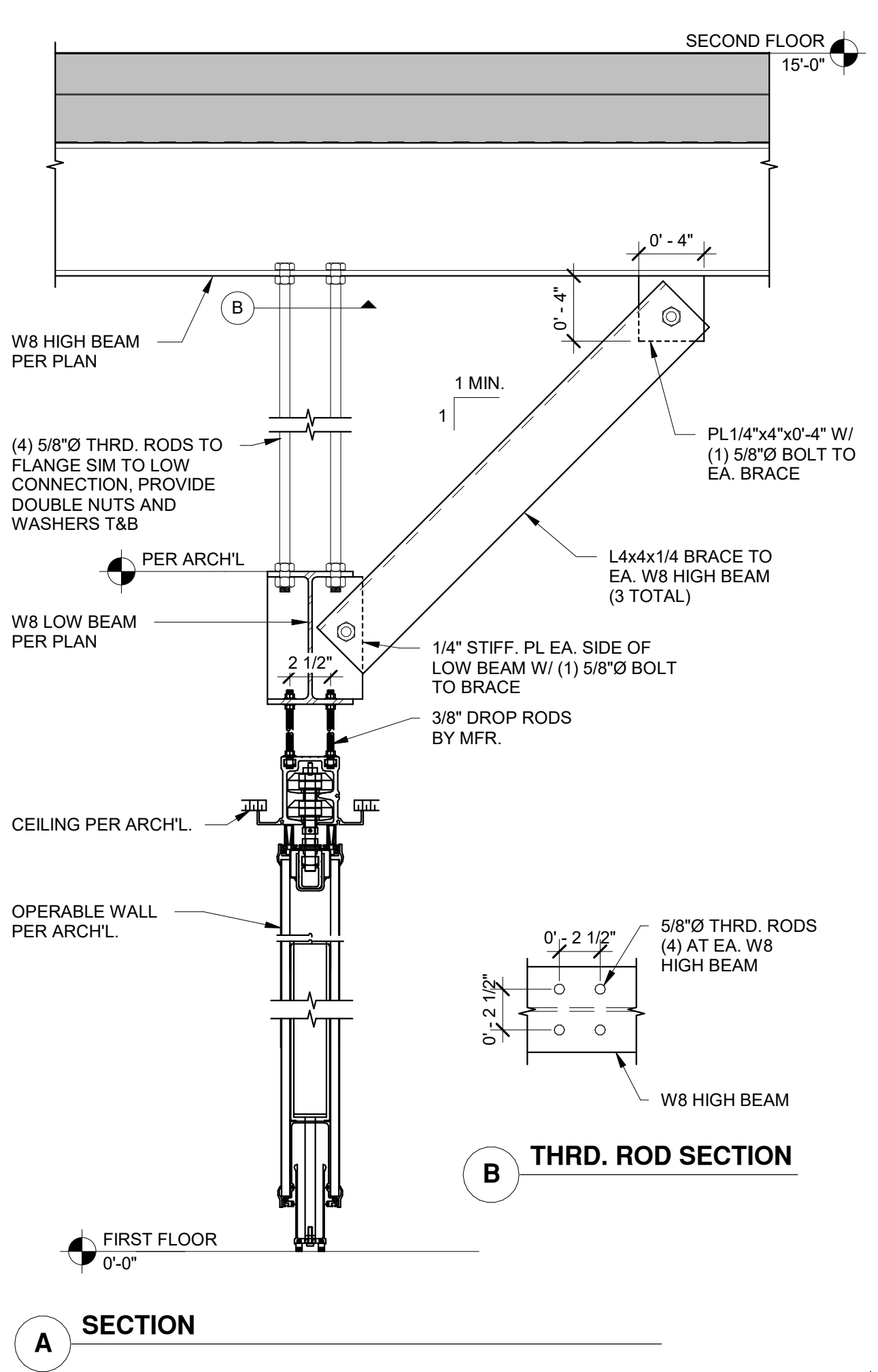
FLOOR EDGE AT DECK RE: 11.9.202 1" = 1'-0" **6**



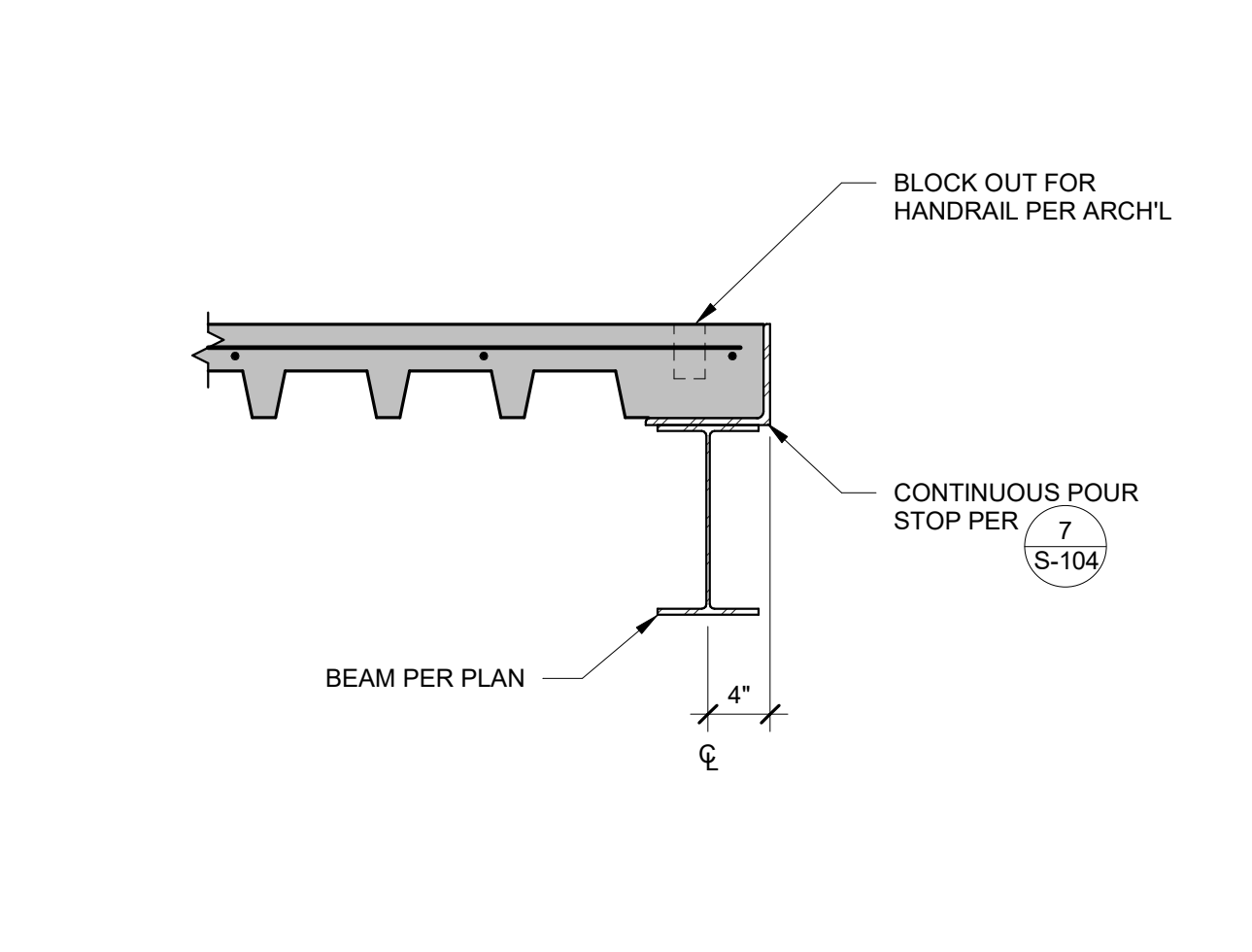
SLAB EDGE @ WALL RE: 11.9.202 N.T.S. **1**



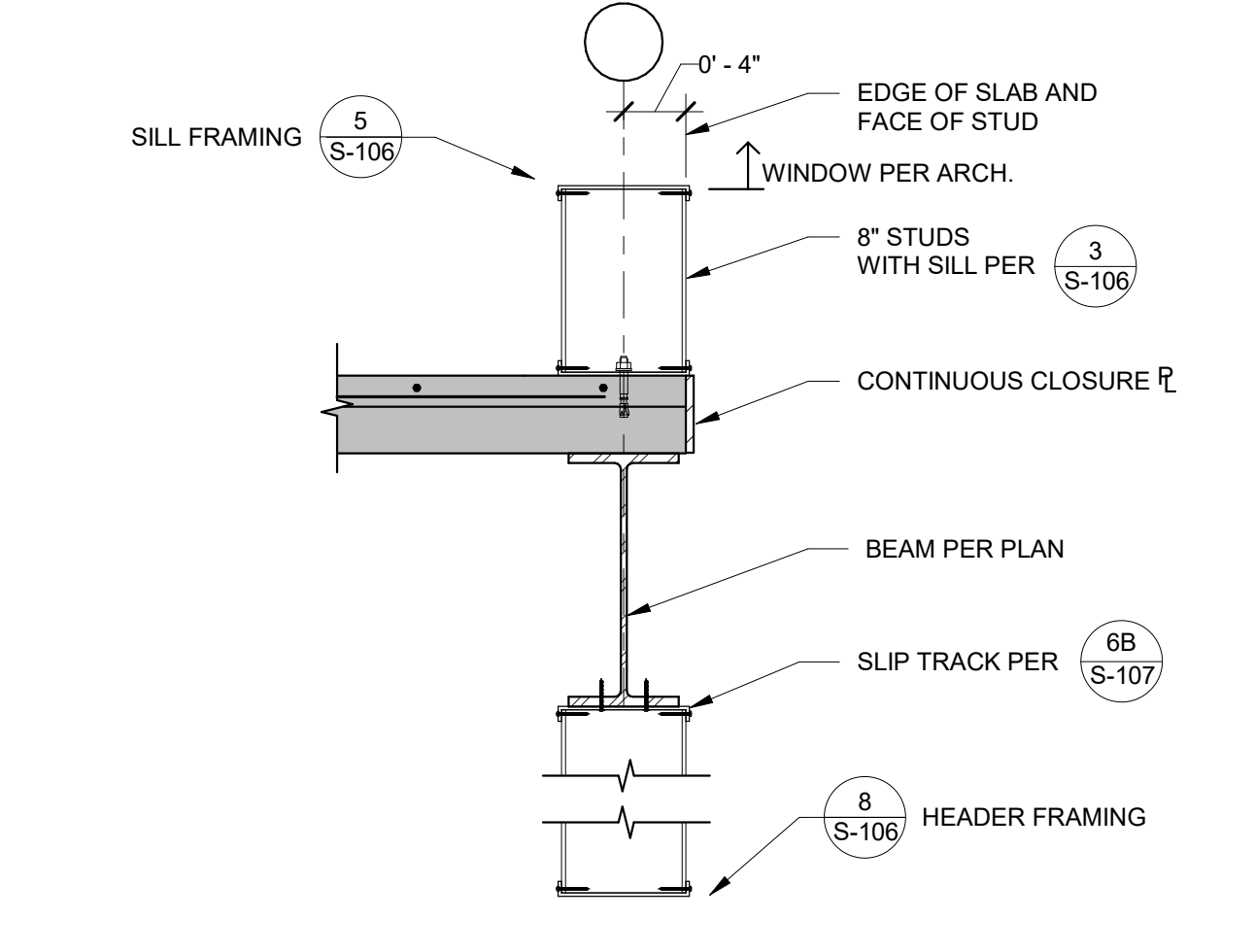
LEDGER AT LIGHT GAGE BEARING WALL 1" = 1'-0" **16**



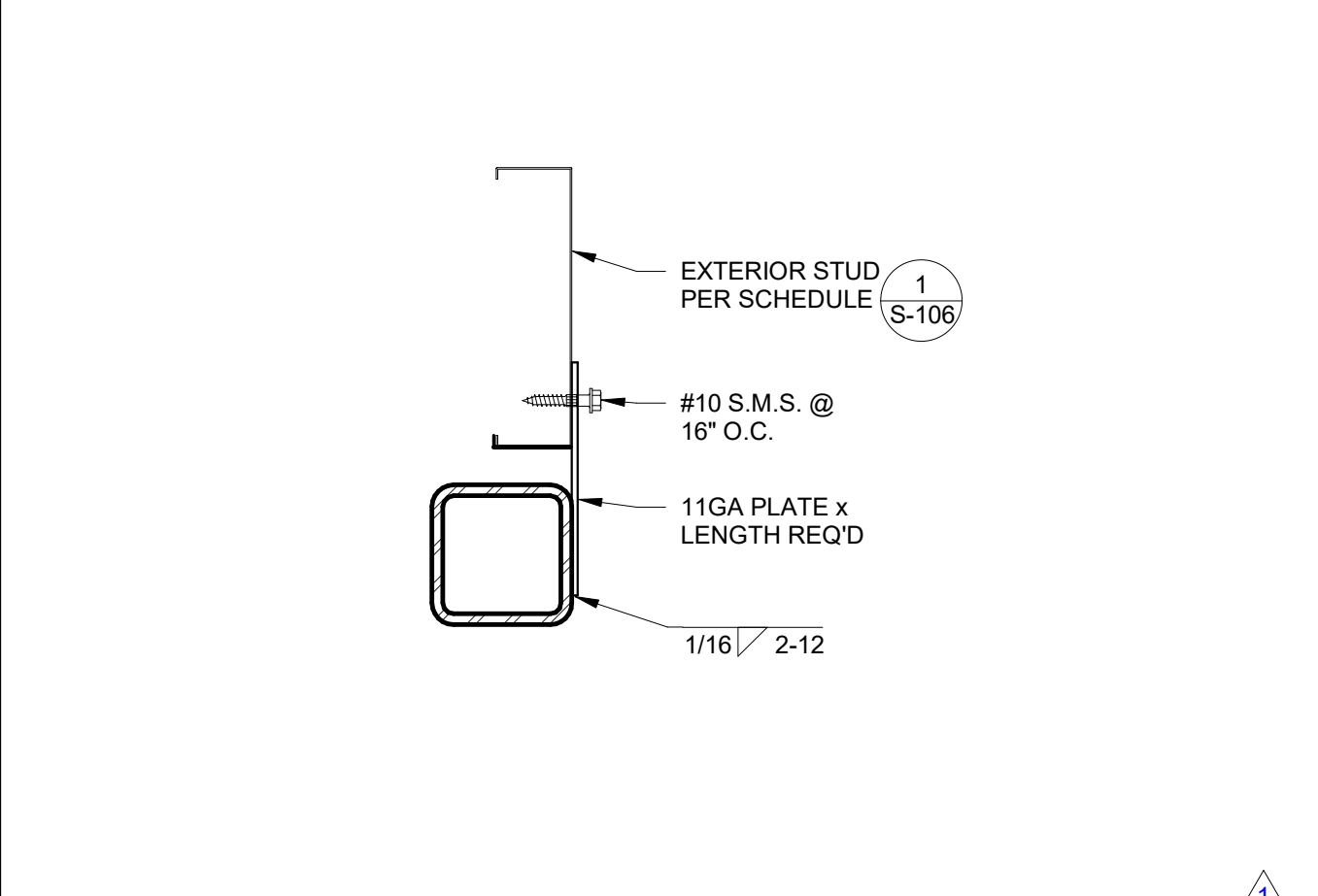
OPERABLE WALL SECTION RE: 11.9.202 1 1/2" = 1'-0" **12**



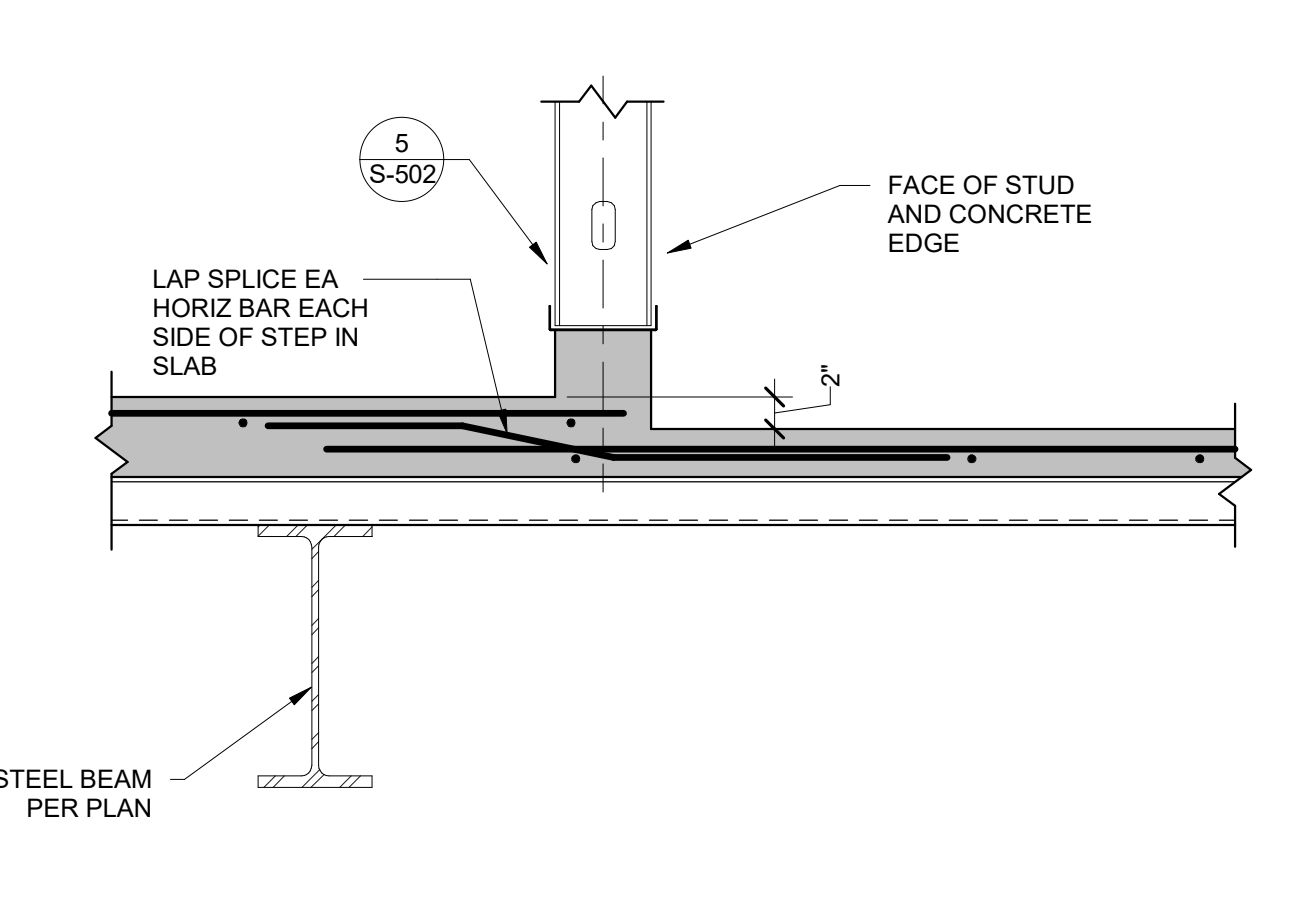
FLOOR EDGE AT DECK RE: 11.9.202 N.T.S. **7**



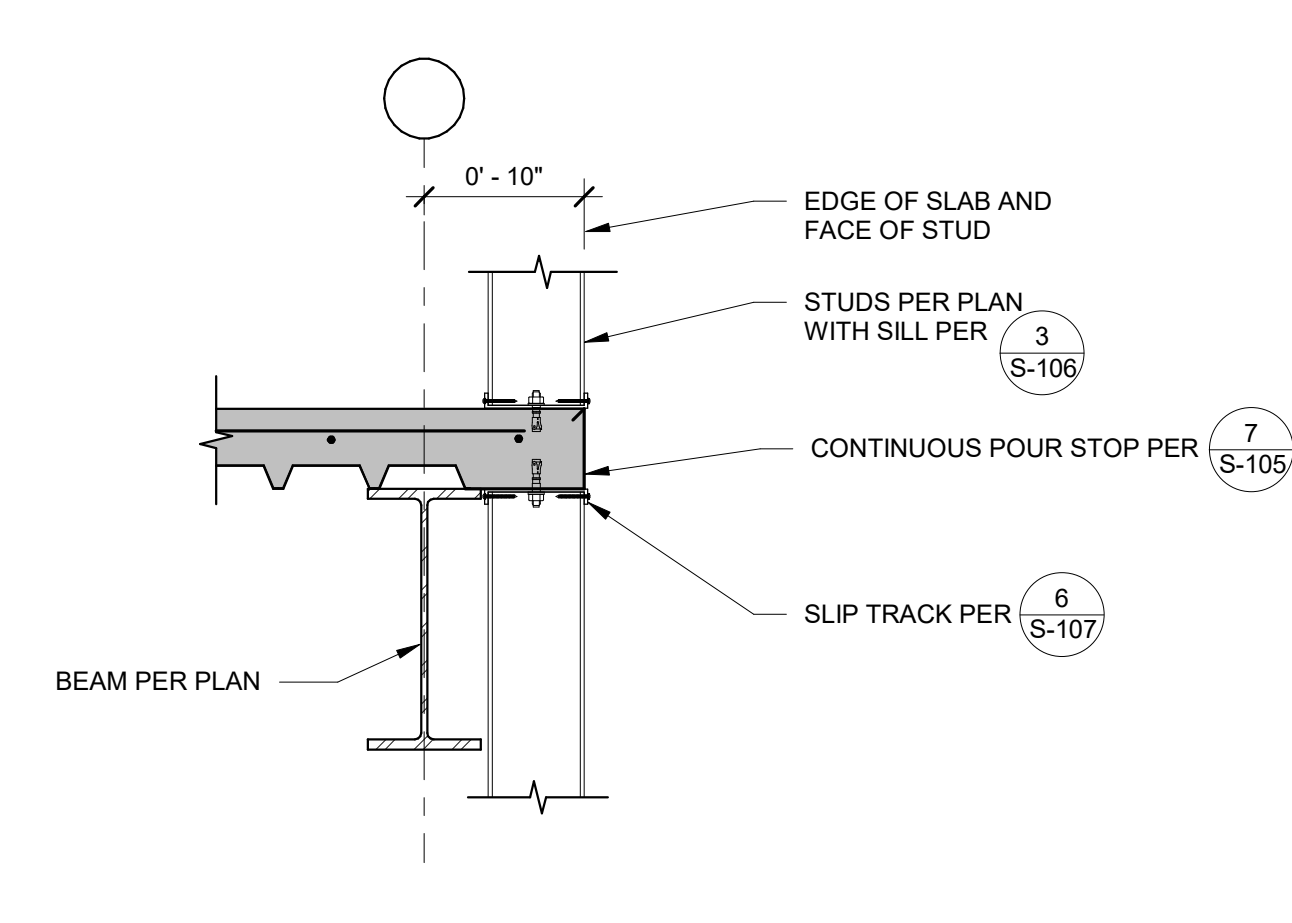
SLAB EDGE @ WINDOWS RE: 11.9.202 N.T.S. **2**



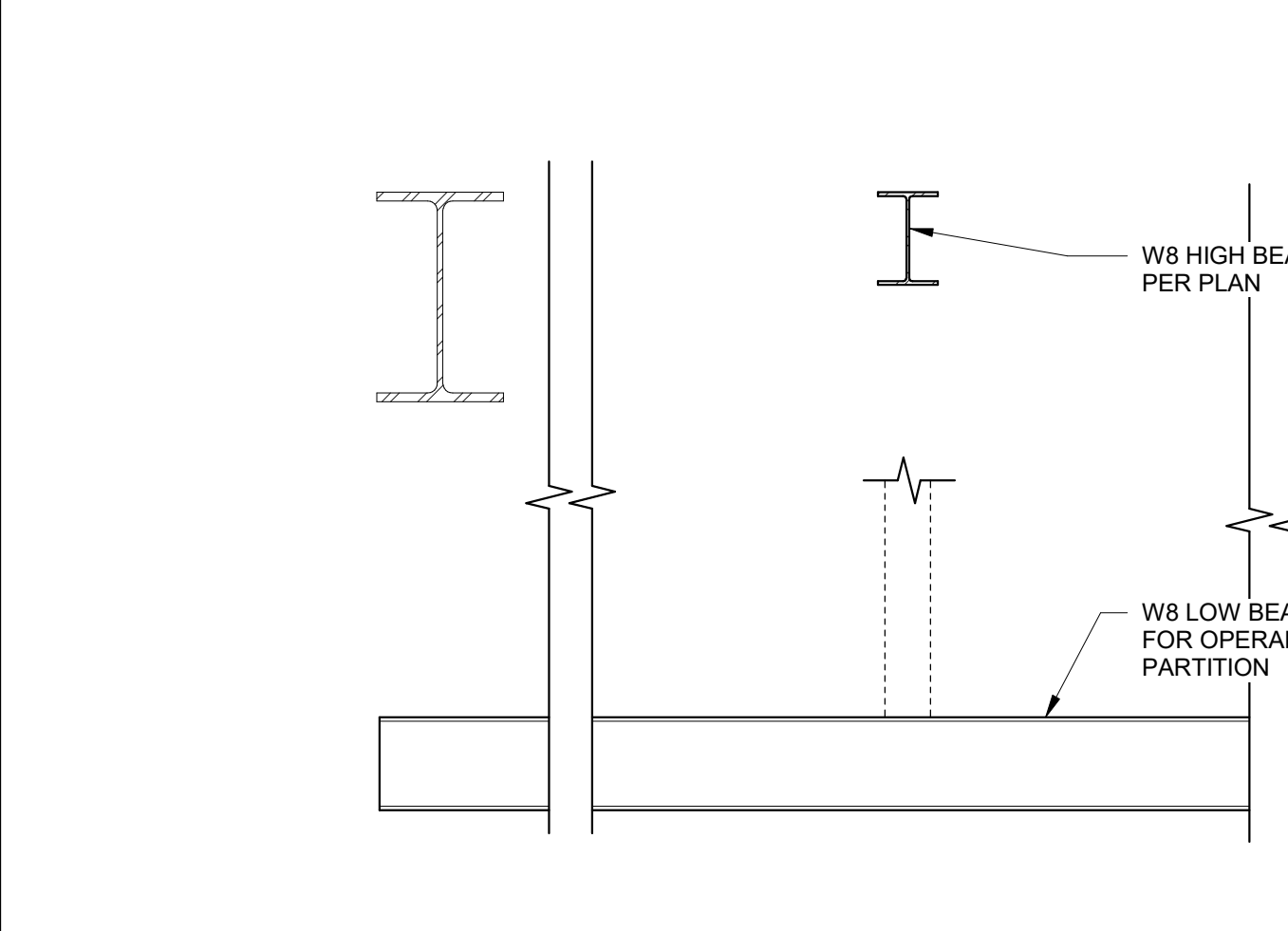
OUTBOARD MS STUD TO STEEL COLUMN RE: 11.9.202 3\"/>



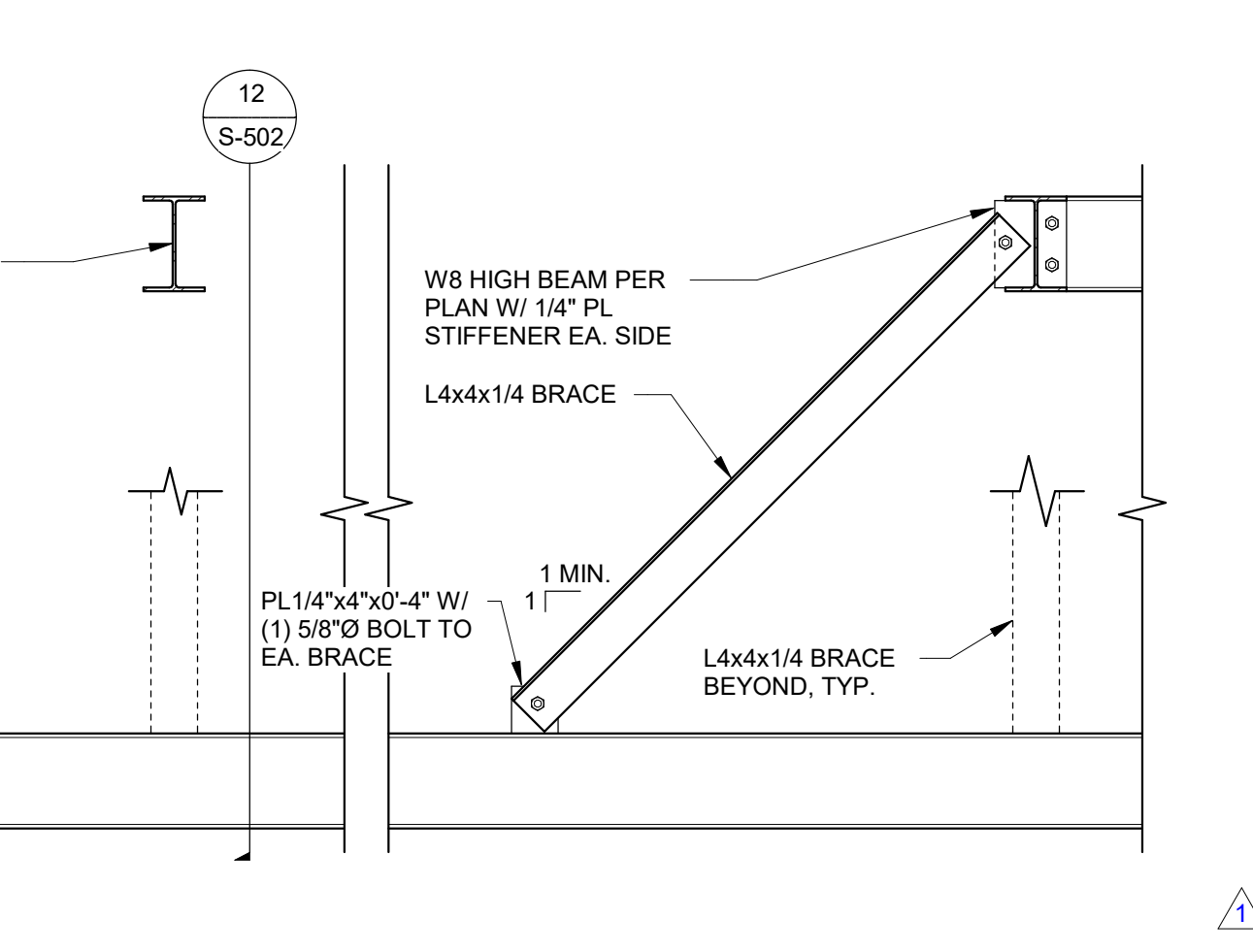
OFFSET DROPPED BEAM AT RECESS FLR. N.T.S. **8**



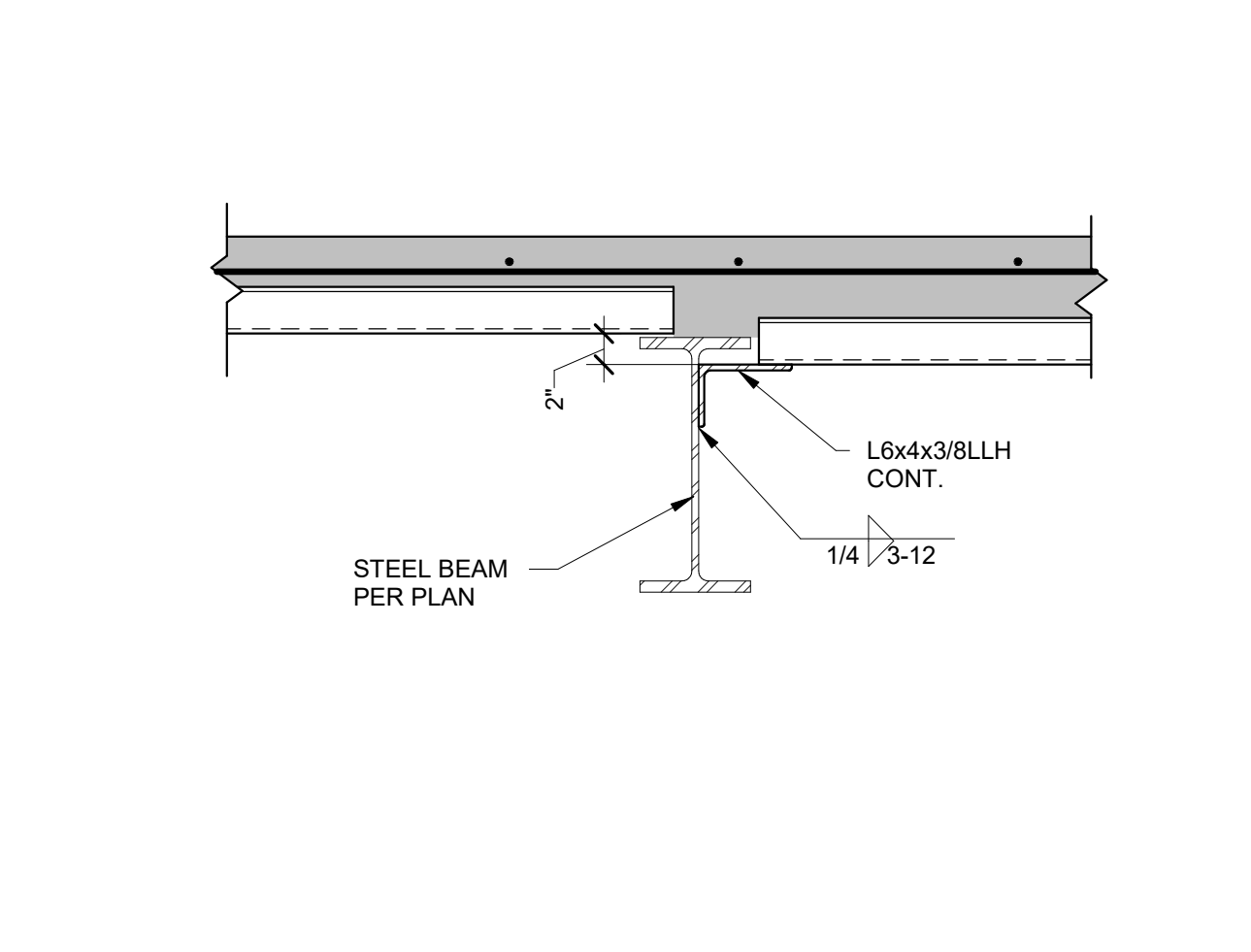
SLAB EDGE @ PARALLEL WALL RE: 11.9.202 N.T.S. **3**



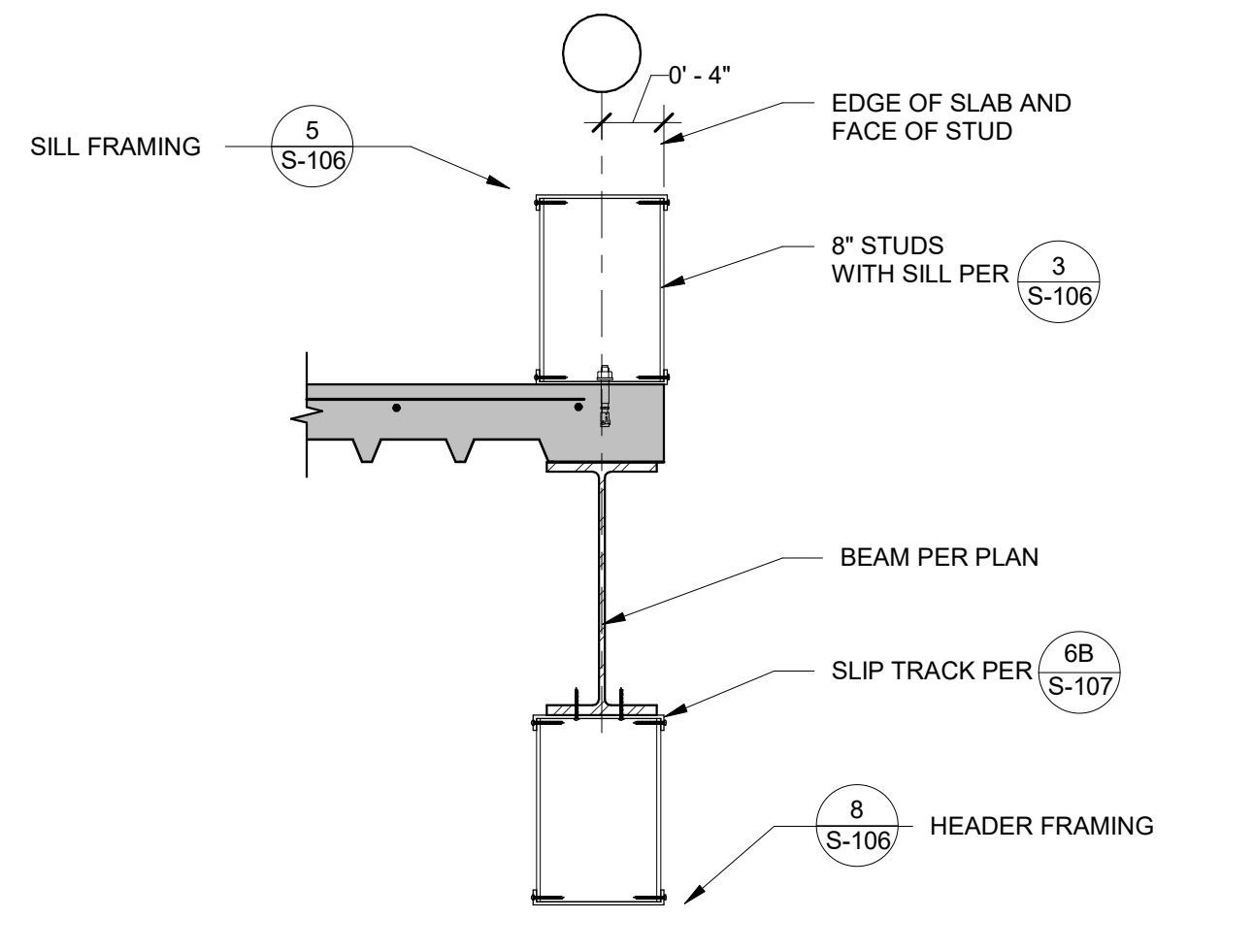
BRACING SECTION AT OPERABLE WALL RE: 11.9.202 3/4\"/>



OPERABLE WALL SECTION RE: 11.9.202 1 1/2\"/>



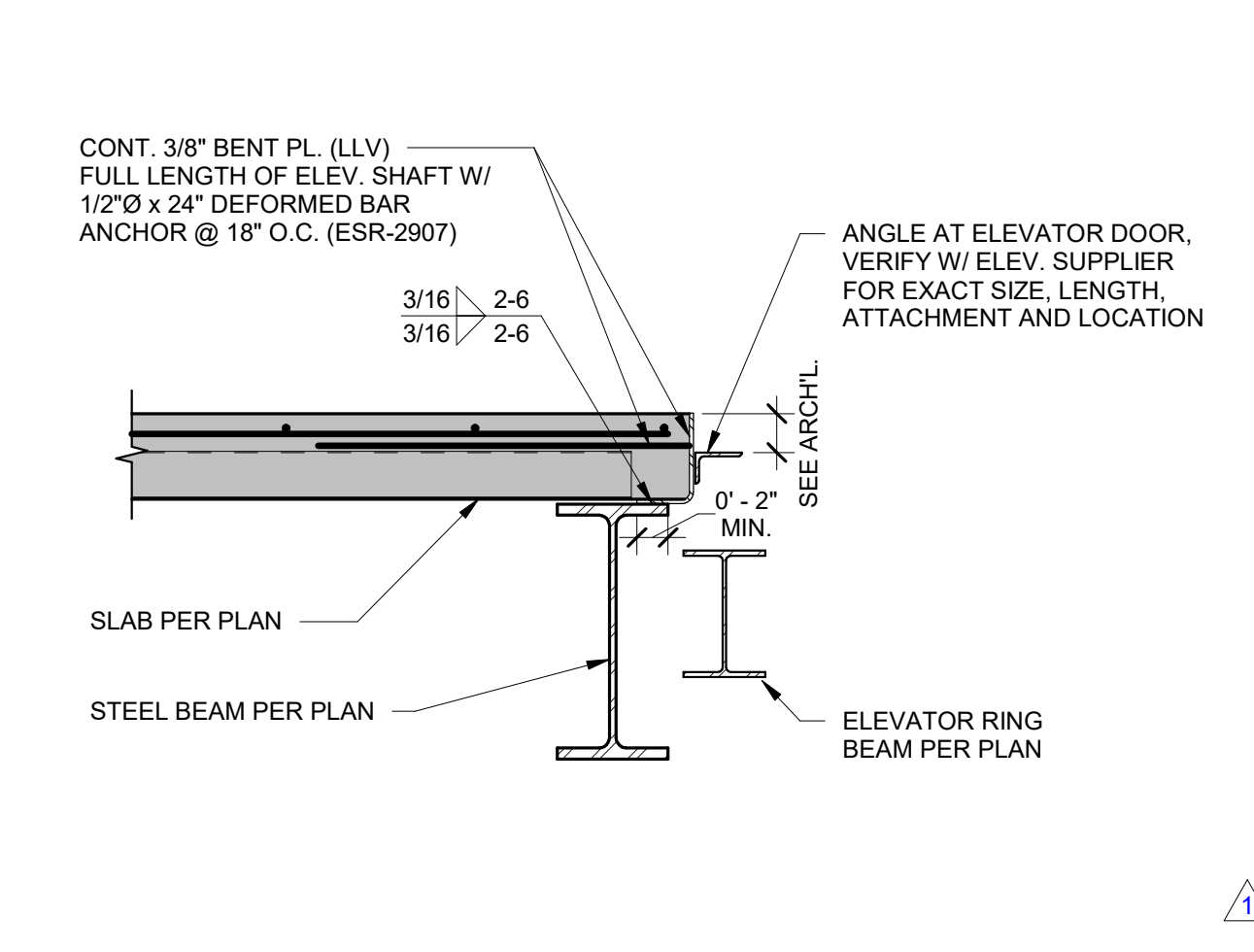
LOWER DECK TO BEAM CONNECTION N.T.S. **9**



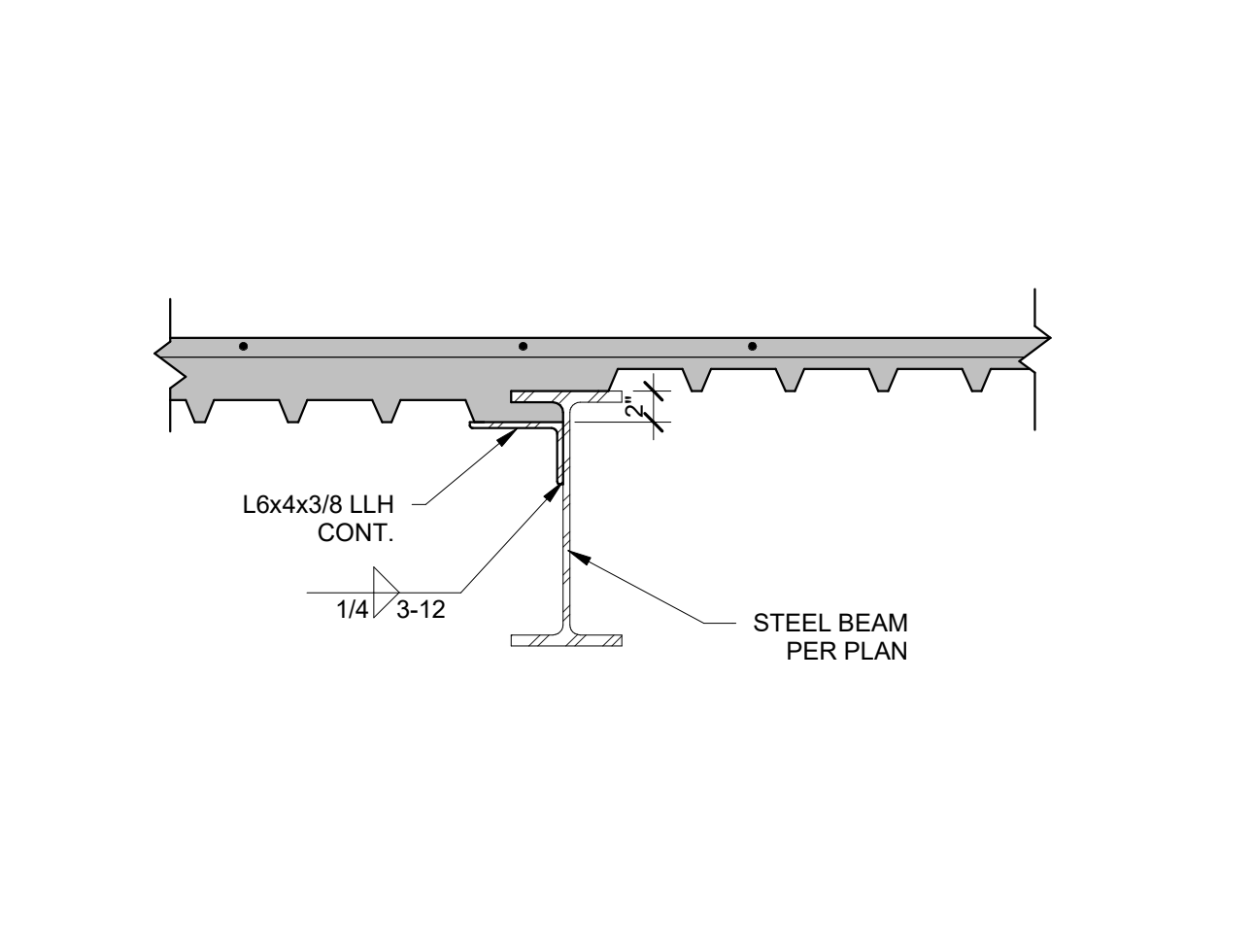
SLAB EDGE @ PARALLEL WINDOWS RE: 11.9.202 N.T.S. **4**



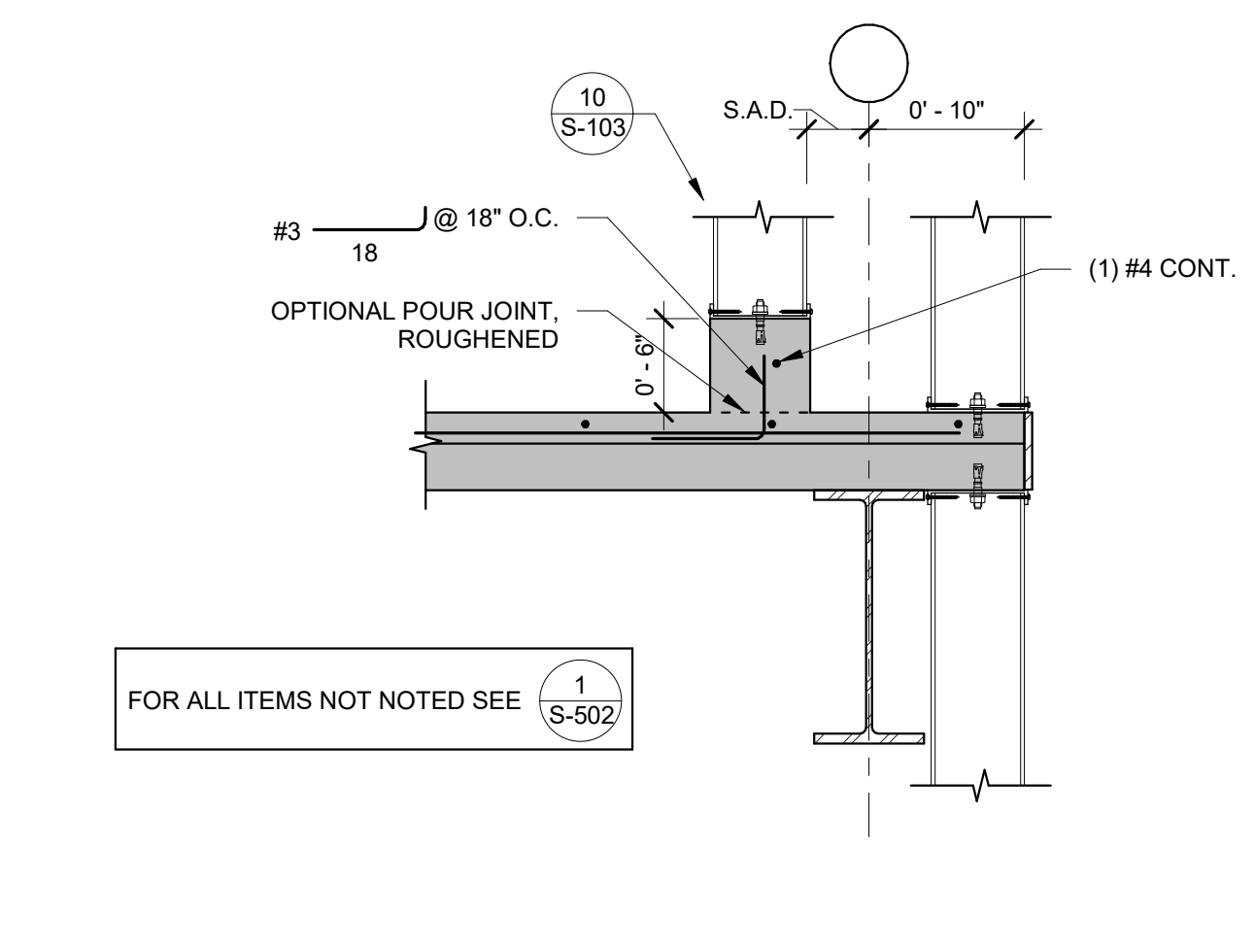
ELEVATOR SILL SUPPORT RE: 11.9.202 1\"/>



LOWER DECK @ GIRDER N.T.S. **10**



SLAB EDGE @ RESTROOM WALL RE: 11.9.202 N.T.S. **5**



SLAB EDGE @ RESTROOM WALL RE: 11.9.202 N.T.S. **5**

AGENCY APPROVAL

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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19.6

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C-22414
REV 10-31-23
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CONSULTANT STAMP

LICENSED PROFESSIONAL ENGINEER
JEFFREY E. HANDEL
No. 4313
Exp. 9/30/24
REV 10-31-23
STATE OF CALIFORNIA

05/30/2023

REVISIONS

NO.	DATE	DESCRIPTION
1	4/20/2023	Revision 1

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93401

CAL POLY TECH
PARK - PHASE 2
1499 San Luis Drive
San Luis Obispo, CA 93401

SHEET TITLE

FRAMING DETAILS

DRAWN BY: BP JOB NUMBER: 21179.01

SHEET NO.

S-502

DATE: APRIL 20, 2023

CONSTRUCTION DOCUMENTS

AIR AND WATER BALANCE NOTES

- THE AIR AND WATER BALANCE WORK AS DESCRIBED IN SPECIFICATION SHALL BE CONTRACTED DIRECTLY BY THE GENERAL CONTRACTOR AND COORDINATED BY THIS CONTRACTOR.
- AIR AND WATER BALANCE SHALL BE PERFORMED FOR ENTIRE CORE AND CORE SPACE UNDER THIS CONTRACT, TERMINAL AIR UNITS, AIR HANDLING UNITS, ALL EXHAUST SYSTEM, AC UNITS, DIFFUSERS AND GRILLES. BALANCING SHALL BE PERFORMED BY AN "AABC" CERTIFIED CONTRACTOR.
- AIR AND WATER BALANCE SHALL BE IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND WITH THE CAL POLY CAMPUS STANDARD SPECIFICATIONS.
- REFER TO THE SPECIFICATION "START-UP, TESTING AND BALANCING FOR THE WORK TO BE PERFORMED BY THE AIR AND WATER BALANCE CONTRACTOR."
- IN ADDITION, THE AIR & WATER BALANCE WORK SHALL ALSO CONSIST OF THE FOLLOWING:
 - TEST & DOCUMENT ALL EQUIPMENT & HVAC.
 - BALANCE THE INDIVIDUAL AIR OUTLETS TO DESIGN QUANTITIES. MEASURE & DOCUMENT THE ACTUAL COOLING SUPPLY AIR TEMPERATURE DURING AIR BALANCING & THE OUTSIDE AIR TEMPERATURE.
 - CHECK THE OPERATION OF THE FIRE DAMPERS.
 - MAKE INSPECTION FOR INSTALLATION DURING CONSTRUCTION DEFICIENCIES SHALL BE NOTED AND REPORTED TO THE MECHANICAL CONTRACTOR.
 - VERIFY & DOCUMENT ACTUAL MOTOR AMPERAGES, RPM, AS WELL AS AIR PRESSURE ON ALL SUPPLY AND EXHAUST FANS.

FIRE LIFE SAFETY NOTES

- THE ELECTRICAL CONTRACTOR SHALL INTERCONNECT ALL FANS AND AC UNITS WITH THE BUILDING LIFE SAFETY SYSTEM FOR FAN SHUT DOWN UPON A SIGNAL FROM THE LIFE SAFETY SYSTEM.
- WHERE DUCT MOUNTED SMOKE DETECTORS FOR A TRANSFER FAN AND AC UNIT ARE SHOWN, THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL THE SMOKE DETECTORS. THE ELECTRICAL CONTRACTOR PROVIDE ALL WIRING AND CONDUIT TO SIGNAL THE LIFE SAFETY SYSTEM. THE LIFE SAFETY SYSTEM SHALL SHUT DOWN THE EXHAUST FANS OR AC UNITS AS DESCRIBED IN NOTE #1.
- ALL SMOKE DETECTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION AND SHALL BE COMPATIBLE WITH STANDARDS.
- GENERAL CONTRACTOR TO COORDINATE SMOKE DETECTOR INSTALLATION WITH FIRE ALARM CONTRACTOR FOR EQUIPMENT SHUT-DOWN (CONTROL MODULES), STATUS (MONITORING MODULES), AND SMOKE CONTROL SYSTEM ACTIVATION.
- FIRE ALARM SYSTEM MODIFICATIONS, WHERE ADDITIONAL SMOKE DETECTORS ARE ADDED, E.G., WSPH RESULT AND EXHAUST DUCTS, THE FIRE ALARM DEVICES SHALL BE TESTED (NFPA 72, SECTION 14.4.1.2.1) WHERE THE SOFTWARE PROGRAM HAS BEEN AFFECTED OR MODIFIED AS A RESULT OF THE ADDITIONAL DEVICES. A FUNCTIONAL TEST SHALL BE REQUIRED AS PER NFPA 72, SECTION 14.4.1.2.2.

CONTROL NOTES

- THE CONTROL WORK SHALL BE PROVIDED BY THE GENERAL AND MECHANICAL CONTRACTOR.
- ALL CONTROL WORK SHALL BE PER SPECIFICATIONS AND CAL POLY CAMPUS STANDARD SPECIFICATIONS.
 - PROVIDE FULL DDC CONTROL SYSTEM FOR ALL HVAC EQUIPMENT(S).
 - THE CONTROL SYSTEM SHALL BE BY BASE BUILDING STANDARD.
- CONTROL COORDINATE ALL INTERCONNECT REQUIREMENTS WITH ELECTRICAL & MECHANICAL CONTRACTORS, EMERGENCY & ALARM SYSTEM.
- CONTRACTOR SHALL VERIFY THE PROPER BASE BUILDING THERMOSTAT SELECTION AND CONTROL WIRING METHOD WITH BASE BUILDING ENGINEERS. FOR BID PURPOSES, EVERYTHING SHALL RUN IN CONDUIT.
- CONTRACTOR IS RESPONSIBLE FOR FULL PACKAGE INCLUDING WIRES, CONDUIT, INTERFACE, ETC.

SEISMIC ANCHORAGE NOTES

PLEASE VERIFY THAT THE PROVISIONS OF THIS ATTACHMENT HAVE BEEN INCORPORATED INTO THESE PLANS OR SPECIFICATIONS AS APPROPRIATE.

EQUIPMENT ANCHORAGE NOTE

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2019 CBC, SECTION 1615.10.15-13.6.7, 1615.16-13.6.8, 1615A.121-13.6.7, 1615A.122-13.6.8, 13.6.8.4 AND 1615.10.14-13.6.5.6.

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS, AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED:

- EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
- FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH ASCE 7.
- TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7 SECTION 13 AS DEFINED IN ASCE 7 SECTION 13.6.8 - 13.6.8.4, 13.6.7, AND 13.6.5.6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA# SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FURNISH AND INSTALL ALL SYSTEMS, UNITS, EQUIPMENT, AND PARTS TO MEET OR EXCEED CURRENT APPLICABLE REQUIREMENTS FOR SEISMIC RESISTANCE SPECIFIED BY CODES, REGULATIONS, OR AGENCIES HAVING JURISDICTION, INCLUDE ALL SUPPORTS, ANCHORS, BRACES, AND OTHER RESTRAINING DEVICES REQUIRED, ALL SEISMIC RESTRAINTS SHALL MEET SEISMIC REQUIREMENTS SPECIFIED BY CODES, REGULATIONS, OR AGENCIES HAVING JURISDICTION AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SEE STRUCTURAL DRAWINGS FOR ALL SEISMIC DESIGN LOAD FACTORS.

PER ASCE 7-05 SECTION 13.6.7 COMPONENTS INSTALLED IN-LINE WITH THE DUCT SYSTEM AND HAVE A OPERATING WEIGHT GREATER THAN 75 LBS SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM. (VAV BOXES AND OTHER DUCT MOUNTED COMPONENTS LESS THAN 75 LBS DO NOT REQUIRE LATERAL BRACING.)

EQUIPMENT ANCHORAGE AND SUPPORT INDICATED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE. FOR PROJECT SPECIFIC EQUIPMENT, DUCTWORK, PIPING, ETC. ANCHORAGE AND SUPPORT, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A STRUCTURAL ENGINEER LICENSED IN CALIFORNIA TO PROVIDE COMPLETE DESIGN OF ALL SUPPORT AND BRACING SYSTEMS. THE DESIGN AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, CHAPTER 16 AND ASCE 7, CHAPTER 13 AND ALL CITY AMENDMENTS AND IRS. ALL CONNECTIONS TO STRUCTURE SHALL BE MADE BY THE USE OF HARDWARE WITH BOLTS, WELDS OR OTHER POSITIVE ATTACHMENTS. FRICTION CONNECTIONS ARE NOT PERMITTED. GENERAL DESIGN CRITERIA SHALL BE AS SHOWN ON STRUCTURAL DRAWINGS.

IN APPLYING EQUATIONS FROM SECTION 13 OF ASCE 7, THE MINIMUM FOLLOWING DESIGN COEFFICIENTS SHALL BE USED:

RIGID:

AIR SIDE $A_p = 2.5$ AND $R_p = 2.5$

WET SIDE $A_p = 1.0$ AND $R_p = 2.5$

FLEX:

NEOPRENE $A_p = 2.5$ AND $R_p = 6.0$

SPRINGRESTRAINED $A_p = 1.0$ AND $R_p = 2.5$

$I_p = 1.0$, $I_p = 1.5$ (FOR FIRE & LIFE SAFETY SYSTEMS), $S_{ds} = 1.0$, AND $ZH = 1.0$

SHOP DRAWING NOTES

CONTRACTOR SHALL PROVIDE FIELD LAYOUT 1/4" SCALE DUCTWORK AND PIPING FABRICATION SHOP DRAWINGS FOR ARCHITECT / ENGINEER AND CAL POLY PROJECT MANAGER REVIEW PRIOR TO ANY FABRICATION AND INSTALLATION.

- SHOP DRAWINGS SHALL BE INDUSTRIAL STANDARD DUCTWORK AND PIPING SHOP DRAWINGS.
- SHOP DRAWINGS SHALL BE FIELD COORDINATED LAYOUT WITH ALL OTHER TRADES FOR ANY CONFLICT. FOR DUCT INSTALLATION IN CONGESTED SPACES, INDICATE COORDINATION WITH GENERAL CONSTRUCTION, BUILDING COMPONENTS, AND OTHER BUILDING SERVICES. INDICATE PROPOSED CHANGES TO DUCT LAYOUT.
- SHOP DRAWINGS SHALL INCLUDE ALL DUCTWORK ACCESSORIES, DAMPERS (MANUAL, CONTROL, FIRE/SMOKE), TURNING VANES, ACCESS DOORS, ETC.
- SHOP DRAWINGS SHALL SHOW THE BOTTOM OF EQUIPMENT, DUCTWORK AND PIPING ELEVATION HEIGHTS.

MECHANICAL SYMBOLS

DUCTWORK	
	SUPPLY DUCT UP/DOWN
	RETURN DUCT UP/DOWN
	EXHAUST DUCT UP/DOWN
	SUPPLY ARROW
	RETURN ARROW
	EXHAUST ARROW
	DIFFUSER INDICATION SHOWING CFM
	EQUIPMENT TYPE DESIGNATION
	EQUIPMENT AREA EQUIPMENT NUMBER
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	BACKDRAFT DAMPER
	GRAVITY DAMPER
	MOTORIZED DAMPER
	PARALLEL DAMPER
	VOLUME DAMPER
	NEW TO EXISTING CONNECTION POINT
CONTROL	
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	MOTORIZED DAMPER
	2-WAY MODULATING CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	2 POSITION
	MODULATING
	2 POSITION - SPRING CLOSED
	2 POSITION - SPRING OPEN
	MODULATING - SPRING CLOSED
	MODULATING - SPRING OPEN
PIPING	
	NEW TO EXISTING CONNECTION POINT
	AUTOMATIC CONTROL VALVE 2-WAY
	AUTOMATIC CONTROL VALVE 3-WAY
	AUTOMATIC FLOW CONTROL VALVE
	STRAINER
	STRAINER W/ DRAIN VALVE, HOSE BIBB, & CAP USE GATE VALVE FOR STEAM
	STRAINER BASKET TYPE W/ DRAIN VALVE, HOSE BIBB, & CAP
	DRAIN OFF VALVE (BALL VALVE W/ HOSE BIBB, CAP & CHAIN)
	THERMOMETER
	PUMP (GENERIC)
	PRESSURE REDUCING VALVE (WATER SYSTEMS)
	PRESSURE REGULATING VALVE (GAS SYSTEMS)
	RELIEF VALVE
	COMBO BALANCING/ SHUTOFF VALVE W/ PRESS. TAPS
	CWS - CONDENSER WATER SUPPLY
	CWR - CONDENSER WATER RETURN
	CHWS - CHILLED WATER SUPPLY
	CHWR - CHILLED WATER RETURN
	HWS - HOT WATER SUPPLY
	HWR - HOT WATER RETURN
	CD - CONDENSATE DRAIN
	PCD - PUMPED CONDENSATE DRAIN
	ACD - AUXILIARY CONDENSATE DRAIN
	G - NATURAL GAS
	PIPE CAP
	PIPE TEE, UP
	PIPE TEE, DOWN
	UNION
	BALANCING VALVE
	BALANCING VALVE WITH METERING POINTS
	BALL VALVE
	BALL VALVE W/ MEMORY STOP
	CHECK VALVE
	BUTTERFLY VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTION
	FLOW DIRECTION
	GATE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PLUG VALVE
	PRESSURE GAUGE
	SOLENOID VALVE
	BLIND FLANGE
	TEST PORT

CALIFORNIA GREEN NOTES

- CONTRACTOR SHALL PROVIDE TESTING AND BALANCING REQUIREMENTS PER SECTION 5.410 OF THE CALIFORNIA GREEN BUILDING CODE.
- MATERIALS USED SHALL HAVE VOC LIMITS IN COMPLIANCE WITH TABLE 5.504.4.1 OF THE CALIFORNIA GREEN BUILDING CODE.
- REFER TO THE SPECIFICATION "START-UP, TESTING AND BALANCING FOR THE WORK TO BE PERFORMED BY THE AIR AND WATER BALANCE CONTRACTOR."

CAL-GREEN BUILDING CODE NOTES

- FOR ALL NEW EQUIPMENT, AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION PURPOSES AT THE TIME OF FINAL INSPECTION.
- ALL DUCT AND RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL UNTIL THE FINAL STARTUP OF HEATING AND COOLING EQUIPMENT.
- AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 OR HIGHER SHALL BE INSTALLED IN MECHANICAL SYSTEMS FOR OUTSIDE AND RETURN AIR TO OCCUPANCY.
- DEMAND CONTROL VENTILATION SHALL USE CO2 SENSORS AND VENTILATION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCCR AND TITLE 24, PART 6 SECTION 121 (C).
- THE HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN ANY CFC OR HALONS.
- PROVIDE COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION IN ACCORDANCE WITH 2019 CALIFORNIA GREEN BUILDING CODE SECTION 5.504.3. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH CAL-GREEN AND SAN LUIS OBISPO CODE AND ORDINANCES.
- THE ENTIRE HVAC SYSTEM SHALL COMPLY AND BE COMMISSIONED PER CAL-GREEN CODES.
- HVAC SYSTEM SHALL BE INSTALLED BY SKILLED MECHANICS WHO HAVE SUCCESSFULLY COMPLETED AN APPRENTICESHIP PROGRAM OR ANOTHER CRAFT TRAINING PROGRAM CERTIFIED BY THE DEPARTMENT OF LABOR, BUREAU OF APPRENTICESHIP AND TRAINING.
- QUALIFIED SPECIAL INSPECTORS SHALL BE AVAILABLE AS REQUESTED BY THE BUILDING DEPARTMENT FIELD INSPECTOR.

GENERAL NOTES

- DRAWINGS AND SPECIFICATIONS, THE MECHANICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EQUIPMENT TO BE FURNISHED FOR DIMENSIONS, MEASUREMENTS, ELEVATIONS, CONNECTIONS, LEVELS, ETC. REFER TO THE CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.
- CONFER AND COOPERATE WITH OTHER TRADES AND COORDINATE THE WORK WITH THEIRS. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH OTHER TRADES. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS OR EQUIPMENT REQUIRING EXACT FIT.
- THE CONTRACTOR AND SUB-CONTRACTORS SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT BE LIMITED TO) VALVES, SHOCK ABSORBERS, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, SWITCH GEAR, AND DRAIN POINTS. MINOR DEVIATIONS FROM DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO MAKING THE CHANGE.
- THE SUB-CONTRACTORS SHALL PROVIDE THE GENERAL CONTRACTOR WITH THE EXACT LOCATIONS AND SIZES OF ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS, CONCRETE SLEEVES OR ANY OTHER CONSTRUCTION REQUIREMENTS NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING CONCRETE SLEEVES IN INTERIOR GRADE BEAMS FOR ALL PIPING HUNG IN CRAWL SPACE. THIS WORK SHALL BE DONE PRIOR TO POURING OF GRADE BEAMS.
- PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN MECHANICAL EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE. SEE SCHEDULES AND SPECIFICATIONS FOR TYPES AND SIZES REQUIRED. OTHERWISE, PROVIDE ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR INSULATION OR LINER REQUIRED FOR DUCT SYSTEMS. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE CEILING SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL PROVIDE FOR EXPANSION OF PIPING. USE EXPANSION LOOPS, ANCHORS, GUIDES, EXPANSION JOINTS, ETC. AS INDICATED OR REQUIRED.
- WHERE CEILING SPACE IS USED AS A RETURN AIR PLENUM, FOLLOW ALL APPLICABLE CODES AS TO MATERIALS ALLOWED FOR USE IN AIR PLENUMS. COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE FREE RETURN OF AIR FROM ALL LOCATIONS.
- THE CONTRACTOR AND SUB-CONTRACTORS ARE TO PROVIDE RETURN AIR FROM ALL LOCATIONS TO BE INSTALLED IN ALL SPACES BACK TO THE APPROPRIATE AIR HANDLING UNIT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FULL HEIGHT WALLS INCLUDING SECURITY AND FIRE SEPARATION WALLS. PROVIDE THE GENERAL CONTRACTOR WITH LOCATIONS AND DIMENSIONS OF ALL REQUIRED RETURN AIR OPENINGS. PROVIDE FIRE/SMOKE DAMPERS, FIRE DAMPERS & SMOKE DAMPERS AS REQUIRED BY TYPE OF CONSTRUCTION. RETURN AIR VELOCITY THROUGH OPENINGS SHALL NOT EXCEED 750 FEET PER MINUTE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION IN WALL WITH ARCHITECTURE AND CIVIL.
- COORDINATE FINAL OVERFLOW DRAIN LEADER TERMINATION IN WALL WITH ARCHITECTURE AND CIVIL.
- SLOPE ALL STORM DRAIN PIPING 4" AND LARGER @ 1/8" PER FOOT MINIMUM. SLOPE ALL STORM DRAIN PIPING 3" AND SMALLER @ 1/4" PER FOOT MINIMUM.
- SLOPE ALL SOIL PIPING 4" AND LARGER @ 1/8" PER FOOT MINIMUM. SLOPE ALL SOIL PIPING 3" AND SMALLER @ 1/4" PER FOOT MINIMUM.
- OFFSET SOIL & ROOF DRAINAGE PIPING BELOW FLOOR SLAB TO AVOID FOOTING PENETRATIONS WHERE IMPOSSIBLE TO AVOID FOOTINGS SLEEVE PIPE PENETRATIONS PER STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- ALL RECTANGULAR 90° ELBOW DUCTWORK ARE TO BE SUPPLIED WITH TURNING VANES. ALL RECTANGULAR TEES ARE TO BE DIVIDED WITH SPLITTER AND TURNING VANES.
- COORDINATE WITH ARCHITECTURAL DRAWINGS THE LOCATION OF FIRE RATED & SMOKE AND RATED WALLS PRIOR TO ORDER AND INSTALLATION OF DAMPERS.
- MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK, PIPING, OR ACCESSORIES THAT DO NOT SERVE ELECTRICAL EQUIPMENT ROOMS MAY NOT ENTER OR PASS THROUGH THE SPACE. REFERENCE NATIONAL ELECTRICAL CODE PROVISIONS FOR CONSTRUCTION OF ELECTRICAL ROOMS.
- AN INDEPENDENT SPECIAL INSPECTION BY A CERTIFIED NEBB OR AABC AIR BALANCE CONTRACTOR IS REQUIRED FOR THE INSTALLATION AND TESTING OF ALL FIRE, SMOKE AND FIRE/SMOKE DAMPERS. THE SPECIAL INSPECTION REPORT SHALL BE RECEIVED AND BY THE CODE AUTHORITY MECHANICAL INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL. ALSO SEE SPECIFICATION SECTION TESTING, ADJUSTING, AND BALANCING FOR ADDITIONAL REQUIREMENTS.
- THE MOUNTING HEIGHT OF THE THERMOSTATS AND TEMPERATURE SENSORS SHALL BE 40" TO THE CENTERLINE OF THE DEVICE ABOVE THE ADJOINING FLOOR LEVEL FOR DISABLED ACCESS COMPLIANCE.
- ALL CONDENSATE DRAIN PIPES ARE TO BE INSTALLED TO PROVIDE "M" COPPER PIPE WITH WROUGHT COPPER FITTINGS. SLOPE CONDENSATE DRAIN PIPES AT 1/8" PER FOOT MINIMUM.
- THE MECHANICAL DESIGN AND COORDINATION WITH OTHER TRADES SUCH AS, BUT NOT LIMITED TO, ARCHITECTURAL, ELECTRICAL AND STRUCTURAL, IS BASED ON THE CHARACTERISTICS OF EQUIPMENT MANUFACTURED BY THOSE COMPANIES SPECIFICALLY LISTED IN THE SCHEDULES AND ON THE DRAWINGS. ANY AND ALL COSTS ASSOCIATED WITH CHANGES DUE TO THE USE OF OTHER MANUFACTURERS EQUIPMENT, INCLUDING MANUFACTURERS LISTED IN THE APPROVED MANUFACTURERS LIST IN THE SPECIFICATIONS, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THESE CHANGES SHALL INCLUDE, BUT NOT BE LIMITED TO, AMPERAGE AND VOLTAGE CHANGES, SPACE REQUIREMENTS, PIPING CHANGES, STRUCTURAL MODIFICATIONS, AND SPACE REQUIRED FOR PLACEMENT OF EQUIPMENT.
- ALL BRANCH RUNOUTS TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
- ALL RETURN DUCTWORK TO UNITS SHALL BE FULL SIZE OF THE UNITS' INLET, UNLESS NOTED OTHERWISE.
- ALL MATERIALS PLACED IN PLENUMS SHALL COMPLY WITH MOST CURRENT CMC TO BE NONCOMBUSTIBLE OR HAVE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50.
- BUILDINGS WITH A ABOVE CEILING RETURN AIR PLENUM AND/OR FULL AREA FIRE DETECTION SYSTEM, ALL FIRE AND SMOKE DETECTORS ARE FURNISHED BY THE FIRE ALARM CONTRACTOR. DUCT DETECTORS SHALL BE MOUNTED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR. DUCT DETECTOR POWER AND SUPERVISORY AND REMOTE ANNUNCIATION SHALL BE BY FIRE ALARM CONTRACTOR. FIRE AND SMOKE DETECTION FUNCTIONS SHALL BE INITIATED BY DRY CONTACT OUTPUTS FROM THE ELECTRICAL FIRE DETECTION AND CONTROL SYSTEM. THESE OUTPUT CONTACT CIRCUITS WILL BE BROUGHT TO THE APPROPRIATE MECHANICAL EQUIPMENT ROOM OR EQUIPMENT LOCATION BY THE FIRE ALARM CONTRACTOR FOR INTERFACE WITH THE MECHANICAL SYSTEMS AND FINAL TERMINATED BY THIS CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR FIRE ALARM SYSTEM DESCRIPTION AND NOTES.
- SEE DRAWINGS FOR COMPLETE LIST OF PRIMARY APPLICABLE CODES. ALL WORK SHALL CONFORM TO PRIMARY APPLICABLE CODES.
- ALL DUCTWORK AND PIPING SHALL BE RESTRAINED AS SHOWN ON THE DRAWINGS OR PER SMACNA SEISMIC RESTRAINT MANUAL, LATEST EDITION, AND PER LOCAL CODES. A COPY OF THE SMACNA SEISMIC RESTRAINT MANUAL AND LOCAL CODES SHALL BE KEPT AT THE PROJECT SITE DURING CONSTRUCTION FOR REFERENCE.
- ALL DUCT WORK SHALL COMPLY WITH THE CURRENT VERSION OF CMC.
- UNLESS SPECIFICALLY SHOWN ON THE DRAWING, NO STEEL MEMBER MAY BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND/OR THE ARCHITECT AND LOCAL AUTHORITY. NO DUCT PENETRATIONS SHALL BE MADE IN NEW OR EXISTING BEARING OR SHEAR WALLS UNLESS SPECIFICALLY SHOWN ON DRAWINGS AND COORDINATED WITH STRUCTURAL ENGINEER AND/OR ARCHITECT AND LOCAL AUTHORITY.
- ALL DUCT OPENINGS AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE PROTECTED DURING DEMO ON THE CONSTRUCTION SITE WITH TAPE, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST AND DEBRIS, WHICH MAY COLLECT IN THE SYSTEMS CFC 5.504.3.
- ENSURE THAT THE SHUTOFF OR CONTROL VALVES ARE ACCESSIBLE PER CBC 606. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM OF 30 INCHES IN DEPTH, WIDTH, AND HEIGHT OF WORKING SPACE. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND SITE VERIFY LAYOUT PROVIDES AND MAINTAINS ACCESS AND WORKING SPACE NEAR MECHANICAL, ELECTRICAL, AND CONTROL EQUIPMENT TO PERMIT READY AND SAFE OPERATION, EXAMINATION, MAINTENANCE, AND IS CODE COMPLIANT. THE CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATION OF EQUIPMENT AND MATERIALS THAT HAS NOT BEEN SO COORDINATED AND CAUSES CONFLICTS.
- ALL PIPING SHALL BE IDENTIFIED PER ANS/ASME A13.1.1.2.

TITLE 24 - ENERGY CONSERVATION

- ALL DUCTWORK, INCLUDING INSULATION, SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS, LATEST EDITION.
- ALL EXHAUST FANS ARE TO BE PROVIDED WITH BACK DRAFT DAMPERS.
- ALL AIR CONDITIONING UNITS SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEG F TO 80 DEG F AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING SEQUENCE.
- ALL THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 10 DEG F BETWEEN FULL HEATING AND FULL COOLING AND SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE OF NO MORE THEN 10 DEG F AND OF TERMINATING ALL COOLING AT A TEMPERATURE OF NOT LESS THAN 75 DEG F.
- TRANSVERSE JOINTS OF ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE OCCUPIED AREA TEMPERATURE REQUIREMENTS SHALL BE SEALED WITH APPROVED MASTIC OR TAPE PER SPECIFICATIONS.
- A MAINTENANCE LABEL WILL BE AFFIXED TO MECHANICAL EQUIPMENT AND MAINTENANCE MANUAL SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT. MANUALS WILL BE PROVIDED TO OWNER FOR USE IN MAINTAINING THE BUILDING EQUIPMENT.
- THE CALIFORNIA NON-RESIDENTIAL ENERGY CONSERVATION STANDARDS HAVE BEEN REVIEWED AND THE DESIGN DRAWINGS, EQUIPMENT AND CALCULATIONS COMPLY WITH THESE STANDARDS. SEE INCLUDED COMPLIANCE FORMS.

SCOPE OF WORK

- PROVIDE VRF HEAT RECOVERY SYSTEMS WITH OUTDOOR CONDENSING UNITS AND INDOOR FAN COIL UNITS FOR SPACE COOLING AND HEATING.
- PROVIDE AIR DUCTWORK DISTRIBUTIONS WITH CEILING DIFFUSERS.
- PROVIDE VRF REFRIGERANT PIPING FROM ROOF OUTDOOR CONDENSING UNITS TO INDOOR FCUS.
- PROVIDE OUTSIDE AIR DUCTWORK FROM ROOF FANS TO INDOOR FCUS.
- PROVIDE RESTROOM EXHAUST AIR SYSTEM UP TO ROOF EXHAUST FAN.
- PROVIDE EXHAUST FAN WITH AIR DISTRIBUTION SYSTEM FOR ELECTRICAL ROOM.
- PROVIDE OUTSIDE AIR DUCT STUBOUT IN LEVEL 2 FOR FUTURE TENANT IMPROVEMENT CONNECTION.

ABBREVIATIONS

AAP	AREA ALARM PANEL
ACD	AUXILIARY CONDENSATE DRAIN
AD	ACCESS DOOR
AFD	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APR	AIR PRESSURE DROP
AVD	ACID VENT THRU ROOF
BDD	BACK DRAFT DAMPER
BE	BELOW
BF	BELOW FINISH FLOOR
BCC	BOTTOM OF CASING
BOC	BOTTOM OF DUCT
BOB	BOTTOM OF PIPE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CI	CAST IRON
CLG	CEILING
CS	COUNTER SINK
CW	CABINET UNIT HEATER
CUH	COLD WATER
D	DIFFUSER
(D)	DEMOLISH
(D)CVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DG	DOOR
DH	DUCT HEATER
DMPR	DAMPER
DP	DIFFERENTIAL PRESSURE
DSD	DUCT SMOKE DETECTOR
DDR	DUCT THRU ROOF
DWG	DRAWING
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ES	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
EW	ELECTRIC WATER COOLER
EWV	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FCU	FAN COIL UNIT
FLR	FLOOR
FR	FAN TUBE RADIATOR
FTU	FAN TERMINAL UNIT
G	GRILLE
GSPH	GROUND SOURCE HEAT PUMP
HC	HEATING COIL
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
IAW	IN ACCORDANCE WITH
IS	IN JOIST SPACE
I/E	INVERT ELEVATION
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	MIXED AIR
MA	MAKE-UP AIR
MD	MOTORIZED DAMPER
MFRG	MANUFACTURER
(N)	NEW
NC	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
NO	NORMALLY OPEN
NP	NON POTABLE COLD WATER
OC	OUTSIDE AIR
OD	OVERFLOW DRAIN
OS	OUTSIDE AIR
OTCS	OPEN TO CEILING SPACE
(P)	PRIMED
PD	PRESSURE DIFFERENCE
PE	POLYETHYLENE
PVC	POLYVINYLCHLORIDE
QTY	QUANTITY
R	REGISTER
RA	RETURN AIR
REL	RELIEF AIR
RD	ROOF DRAIN
RIS	RUBBER IN SHEAR
RUS	RISE IN JOIST SPACE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
RWS	RAINWATER SYSTEM
SA	SUPPLY AIR
SC	SCIENCE CENTER
SCO	SURFACE CLEAN OUT
SD	SMOKE DETECTOR
SM	SHEET METAL
S.O.V.	SHUT-OFF VALVE
SPPA	STRUCTURAL POLYCARBONATE PANEL ASSEMBLY
TSC	TECHNOLOGY CENTER
TSP	TOTAL STATIC PRESSURE
TY	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UTR	UP THRU ROOF
VFD	VARIABLE FREQUENCY DRIVE
WLS	WELL FIELD SUPPLY
WLR	WELL FIELD RETURN
ZCV	ZONE CONTROL VALVE

DESIGN CRITERIA

PROJECT LOCATION	SAN LUIS OBISPO, CA
CALIFORNIA CLIMATE ZONE	CZ-05
PROJECT ALTITUDE (FT. ABOVE SEA LEVEL)	320
SUMMER DESIGN DRY-BULB TEMPERATURE (°F)	89.9
SUMMER DESIGN WET-BULB TEMPERATURE (°F)	64.0
WINTER DESIGN DRY BULB TEMPERATURE (°F)	30.0

MECHANICAL SHEET INDEX

M-001	MECHANICAL LEGENDS
M-011	MECHANICAL TITLE 24 CALCULATIONS
M-012</	

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 7 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

Table with 10 columns: FUTURE CU, Single zone, <= 25,000 ft², Setback, Auto Timer Switch, Auto Timer Switch, NA: Serves temp. sensitive process, NA: Controls prevent reheat/recool / simultaneous us, Provided

FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. *Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16. Includes System Name, ODU-1, System Design OA CFM, Airflow, 1099, System Design Transfer Air CFM, 0, Air Filtration per §120.1(c) and §141.0(b)(2), etc.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 8 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

Table with 10 columns: FCU-2, Conference/ meeting, 396, 198, 0, 0, DCV, Provided per §120.1(d)(4), etc.

Table with 10 columns: FCU-3, Break room, 308, 154, 0, 0, DCV, Provided per §120.1(d)(4), etc.

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STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 9 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

Table with 10 columns: FCU-4, Assembly- multiuse, 709, 354.5, 0, 0, DCV, Provided per §120.1(d)(4), etc.

Table with 10 columns: FCU-5, Assembly- multiuse, 709, 354.5, 0, 0, DCV, Provided per §120.1(d)(4), etc.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 4 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes Name or Item Tag, Size Category (Btu/h), Rating Condition (°F), Efficiency Unit, Design Efficiency, etc.

G. PUMPS

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 5 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(d), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes System Name, CU-1, Economizer, NA: <=54 kBtu/h cooling, etc.

FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRC-PRC-E document. *The unit used for HP must be consistent for all fans within a system.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 6 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2, and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)(2) for altered space conditioning systems.

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes System Name, System Zoning, Conditioned Floor Area Being Served (ft²), Thermostats §110.2(b) & (c), Shut-Off Controls §120.2(e), Isolation Zone Controls §120.2(f), Demand Response §110.12 and §120.2(b), Supply Air Temp. Reset §140.4(f), Window Interlocks per §140.4(n)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 1 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

A. GENERAL INFORMATION

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Includes Project Location (city), San Luis Obispo, Total Conditioned Floor Area, 7996, etc.

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

Table with 10 columns: 01, 02, 03. Includes Air System(s), Wet System Components, Dry System Components, Heating Air System, Water Economizer, Air Economizer, etc.

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STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 2 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes System Summary §110.1, §110.2, §140.4, Pumps §140.4(h), Economizers §140.4(i), §140.4(j), Ventilation §120.1, Terminal Box Controls §140.4(d), Distribution §120.3, §140.4(i), Cooling Towers §110.2(a)(2), Compliance Results

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: Cal Poly Tech Park - Phase 2 Report Page: (Page 3 of 16) Project Address: 1499 San Luis Drive Date Prepared: 3/8/2023

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(i) or §141.0(b)(2) for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

Table with 11 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11. Includes Name or Item Tag, Equipment Category per Tables 110.2 / Title 20, Equipment Type per Tables 110.2 / Title 20, Heating Output, Cooling Output, Load Calculations

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(b)(2). Healthcare facilities are exempt. It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

1 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. 2 Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.1.003 Registration Provider: Energysoft Schema Version: rev 20200601 Report Generated: 2023-03-08 11:00:57



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FIRE ALARM ENGINEER DEEP BLUE INTEGRATION INC. 3442 EMPRESA DR. SUITE C SAN LUIS OBISPO, CA 93401 TEL (888) 600-0324

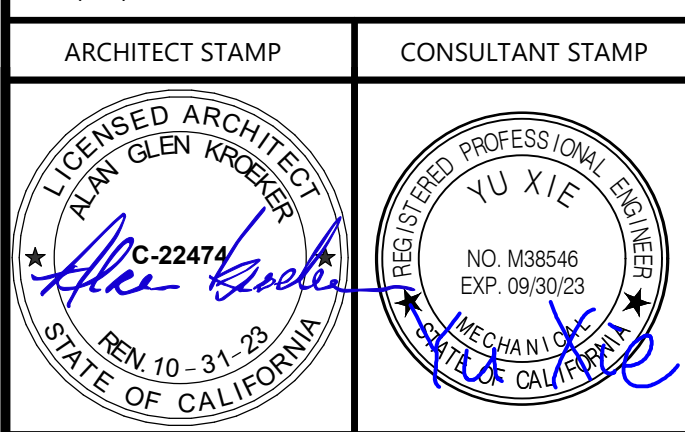


Table with 3 columns: NO., DATE, DESCRIPTION. Includes 2022-12-22 ISSUE FOR PLAN CHECK, 2023-03-08 100% CD, 2023-08-09 MS COMMENT REVISION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93407

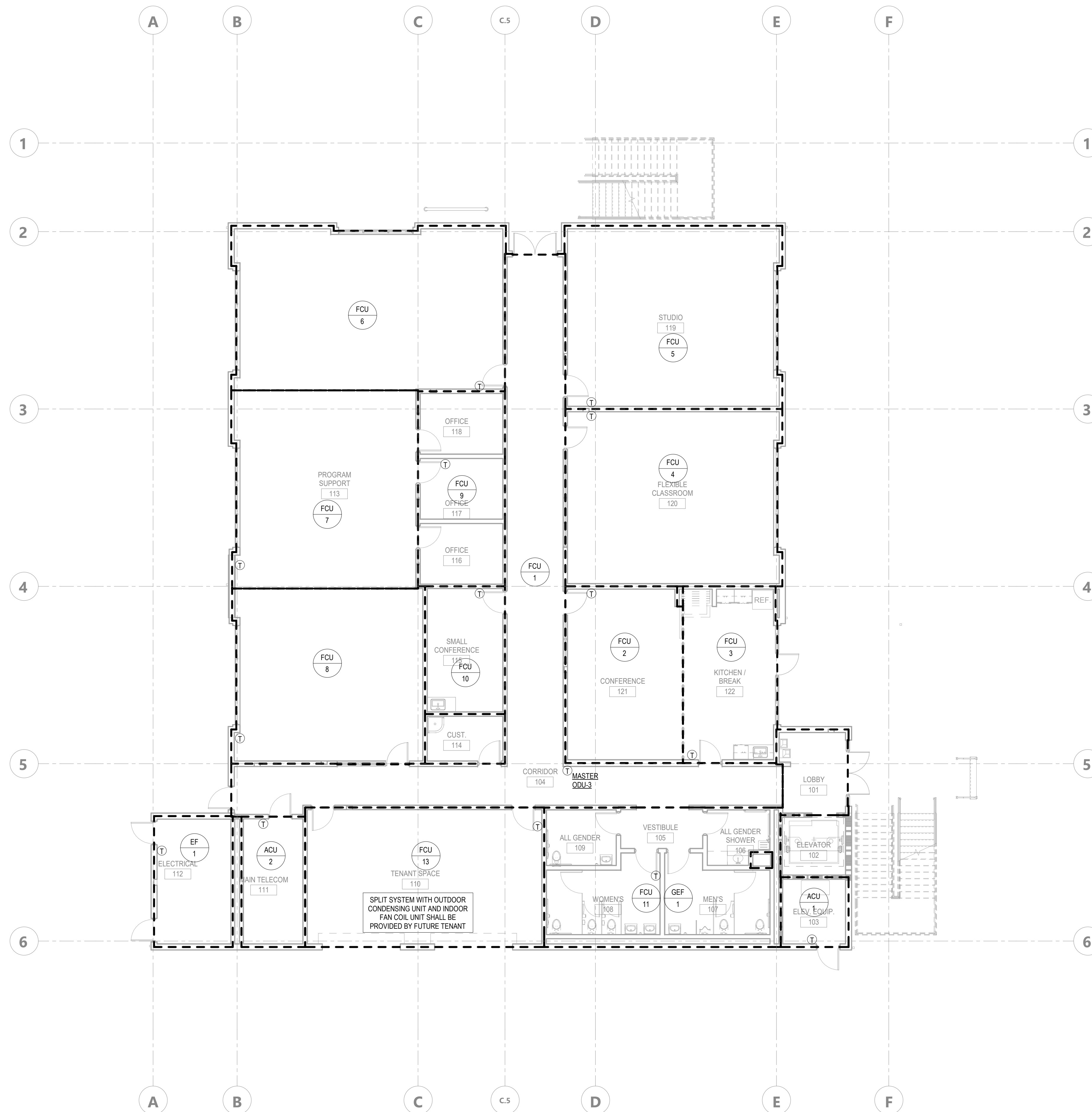
CAL POLY TECH PARK - PHASE 2 Mount Bishop Road San Luis Obispo, CA

SHEET TITLE MECHANICAL TITLE 24 CALCULATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO. M-011 DATE: APRIL 11, 2023

DATE PLOTTED: 4/11/2023 2:00:17 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



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

KEYNOTE LEGEND

GENERAL NOTES

1. ALL THERMOSTATS INSTALLED ON EXTERIOR WALLS OR COLUMNS SHALL HAVE AN INSULATED BACKING INSTALLED BEHIND THE THERMOSTAT.
2. THERMOSTATS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR. FINAL THERMOSTAT LOCATION(S) SHALL BE COORDINATED WITH FURNITURE LAYOUT AND APPROVED BY THE ARCHITECT.
3. COORDINATE THERMOSTAT LOCATIONS TO GROUP THEM WITH LIGHT SWITCHES.

AGENCY APPROVAL DSAE 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.
Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Skubal

AMG
26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
TEL (661) 251-7401

19.6
560 HIGUERA STREET, SUITE C
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TEL (888) 600-0324

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CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
LEVEL 01 -
MECHANICAL
ZONING PLAN

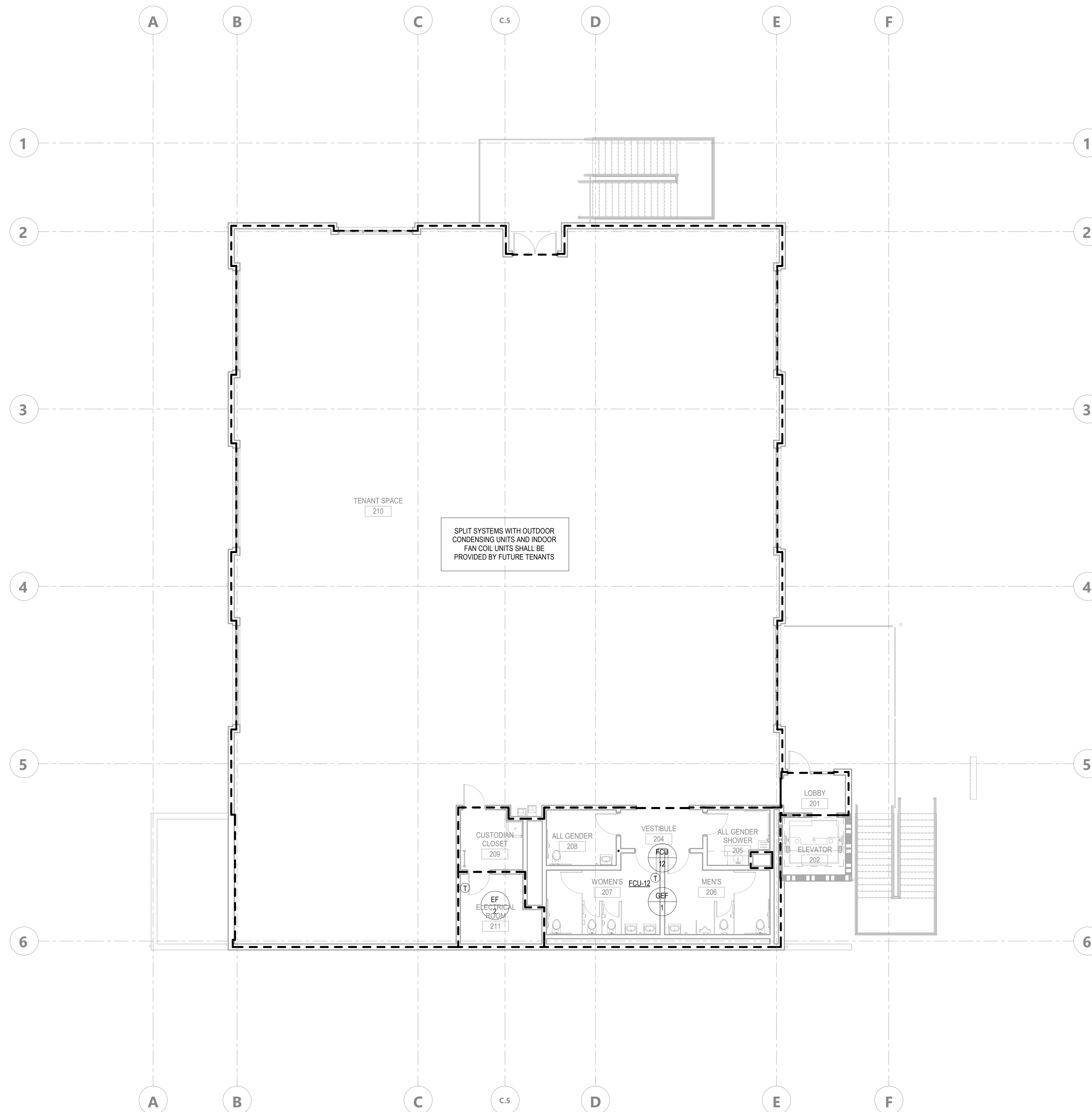
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DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

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KEYNOTE LEGEND

GENERAL NOTES

1. ALL THERMOSTATS INSTALLED ON EXTERIOR WALLS OR COLUMNS SHALL HAVE AN INSULATED BACKING INSTALLED BEHIND THE THERMOSTAT.
2. THERMOSTATS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR. FINAL THERMOSTAT LOCATION(S) SHALL BE COORDINATED WITH FURNITURE LAYOUT AND APPROVED BY THE ARCHITECT.
3. COORDINATE THERMOSTAT LOCATIONS TO GROUP THEM WITH LIGHT SWITCHES.

AGENCY APPROVAL DSAE 03-122884

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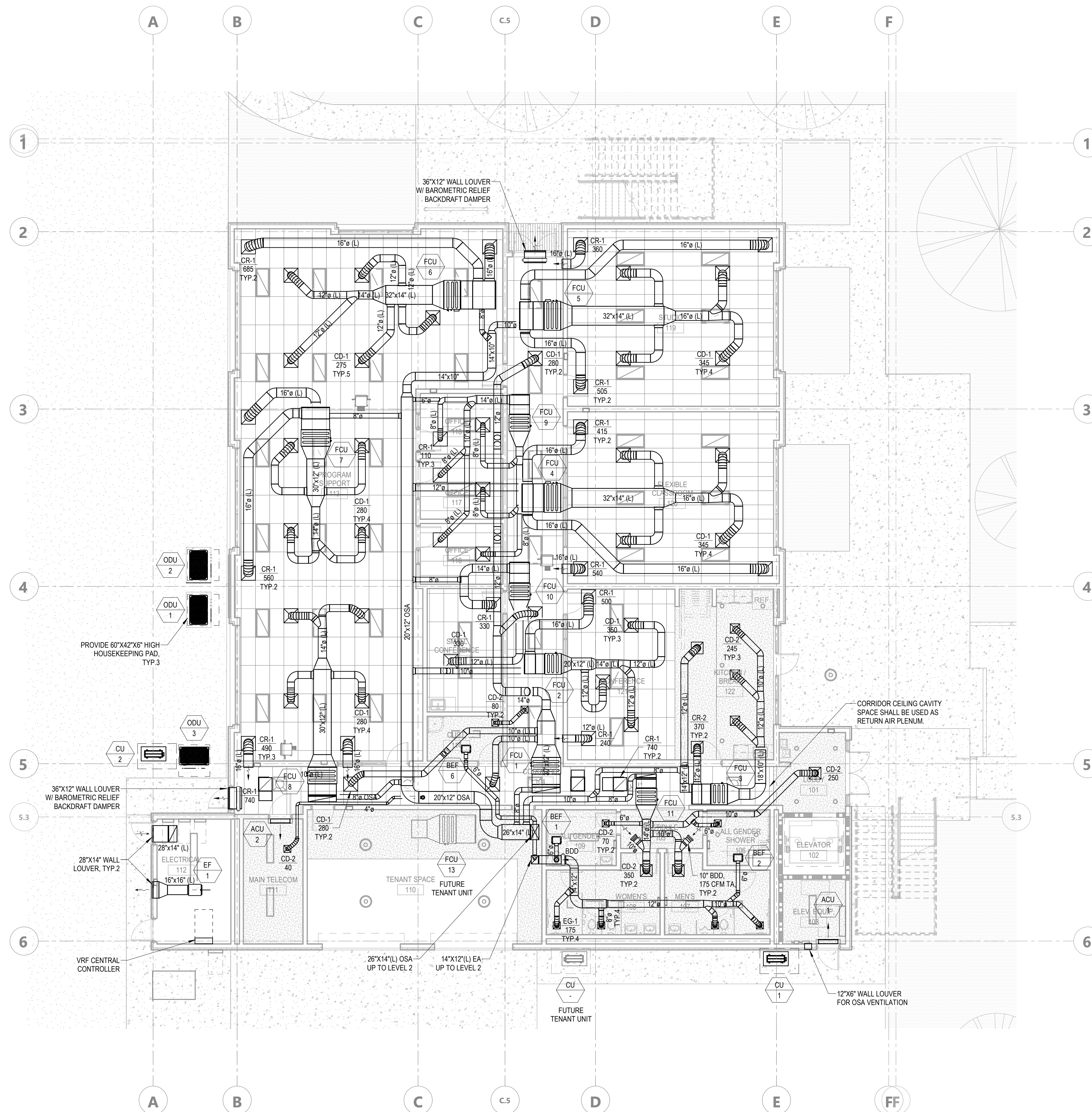
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LEVEL 01 - HVAC PLAN 1/8" = 1'-0" 1

KEYNOTE LEGEND

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC. COORDINATE EXACT LOCATIONS WITH EXISTING CONDITIONS, ALL OTHER NEW WORK AND EQUIPMENT CONFIGURATIONS.
- PROVIDE AND INSTALL DUCT TYPE SMOKE DETECTORS ON THE SUPPLY AIR DUCT PLENUM OF THE AC UNITS WHICH SHALL BE INTERLOCKED WITH THE UNIT FOR SHUT-DOWN AND SHALL BE TIED INTO BUILDING FIRE SAFETY CONTROL PANEL. PROVIDE WITH REMOTE STATUS PANEL WITH RESET LED PUSH BUTTON.
- CONTRACTOR SHALL INSTALL HVAC UNITS IN SUCH A MANNER AS TO ALLOW FOR 36" IN FRONT OF THE CONTROLLERS, COMPONENT ACCESS AND ELECTRICAL DISCONNECTS.
- ALL LOW PRESSURE DUCTWORK FROM OUTLET OF THE HVAC EQUIPMENT TO DIFFUSERS SHALL BE SPIRAL DUCTWORKS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL WALL PARTITIONS TYPES/CEILING TYPES AND RATINGS IN ORDER TO PROVIDE COMBINATION SMOKE FIRE DAMPERS / FIRE STOPPING AT PENETRATIONS TO FIRE RATED AREAS (IN ACCORDANCE WITH MECHANICAL CODE).
- CONTRACTOR SHALL COORDINATE HVAC LAYOUT IN ORDER TO AVOID FIRE SPRINKLER LINES.
- FINAL DIFFUSER TYPES AND LOCATIONS SHALL BE COORDINATED AND APPROVED BY ARCHITECT & MEP ENGINEER.
- CONTRACTOR SHALL COORDINATE FINAL MECHANICAL DISTRIBUTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CLEARANCE ISSUES.
- CONTRACTOR SHALL PROVIDE AND INSTALL RETURN AIR OPENINGS/GRILLES ON ALL FULL HEIGHT WALLS AS REQUIRED FOR PROPER RETURN AIR FLOWPATH BACK TO THE AC UNITS MAIN RETURN.
- PROVIDE A VOLUME DAMPER IN EACH BRANCH DUCT TO OUTLET, WHETHER SHOWN DRAWING OR NOT. DAMPERS SHALL BE AS FAR AWAY FROM DIFFUSER AS POSSIBLE, PREFERABLY AT THE BRANCH TAKEOFF. CONTRACTOR SHALL TAG ALL VOLUME DAMPERS WITH RED OR YELLOW RIBBONS.
- CONTRACTOR SHALL PROVIDE REMOTE REGULATOR CONTROLS FOR ACCESS TO VOLUME DAMPERS ABOVE HARD LID CEILING. REMOTE REGULATOR SHALL BE YOUNG REGULATORS WITH BOWDEN CABLES.
- ALL DUCT RUN-OUT SIZE SHALL BE PER ITS CONNECTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
- ALL ACCESS PANELS INCLUDING THOSE IN ACCESSIBLE CEILING SHALL BE DESIGNATED AND PROPERLY FRAMED TO ALLOW PROPER ACCESS WITHOUT DRAGGING THE CEILING TILE OR GRID. AVOID LOCATING ANY CONDUITS DIRECTLY ABOVE ACCESS TO EQUIPMENTS.
- ALL HVAC EQUIPMENT LOCATED ABOVE CEILING & COMBINATION SMOKE/FIRE DAMPERS SHALL BE LABELED FOR ACCESS.
- CONTRACTOR SHALL NOT TERMINATE SECONDARY/OVERFLOW CONDENSATE DRAIN ABOVE ANY FUTURE TENANT OFFICE SPACES OR ELECTRICAL EQUIPMENT.
- ALL ACOUSTICAL FLEXIBLE DUCT SHALL BE CASCO SILENTFLEX II OR EQUAL. CONTRACTOR SHALL PROVIDE MAXIMUM 5 FT ACOUSTICAL FLEXIBLE DUCT CONNECTION BETWEEN DIFFUSERS AND VOLUME DAMPERS.
- ALL DUCT AND PIPE PENETRATIONS THROUGH FULL HEIGHT WALLS SHALL BE ACOUSTICALLY SEALED.
- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL NEW EQUIPMENT AND SPECIALLY LOCATED ABOVE HARD LID CEILING.
- PROVIDE DUCT FLEX CONNECTORS ON ALL SUPPLY AND RETURN EXHAUST DUCT CONNECTIONS TO AC UNITS OR SUPPLY EXHAUST FANS.
- CONTRACTOR SHALL USE LOW LOSS CONICAL HIGH SIDE CONNECTION (45 DEG. CONVERGENCE) TAP-IN TO MAIN LOW PRESSURE DUCTWORK.
- EXPOSED DUCTS SHALL BE INSTALLED WITHOUT DENTS OR DEFECTS. USE COUPLINGS AT JOINTS SEALED WITH CLEAR SILICONE SEAL. ALL EXPOSED DUCTWORK SHALL BE ACOUSTICALLY LINED INTERNALLY (MIN. 1").
- ALL HVAC EQUIPMENT SHALL BE PROVIDED WITH DDC CONTROLS PER THE BASE BUILDING STANDARDS.
- UNIT CONDENSATE DRAIN SHALL BE PROPERLY TRAPPED, SUPPORTED AND SLOPED TO NEAREST CODE APPROVED PLUMBING RECEPTOR.
- EXPOSED DUCTWORK AND SUPPLY TERMINALS ROUTING AND ELEVATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- ALL INDOOR DUCTWORK SHALL BE PROVIDED WITH R-4.2 MINIMUM INSULATION PER T24.
- PROVIDE BACK DRAFT DAMPER AND VOLUME DAMPER WHERE OUTSIDE AIR DUCTS CONNECT TO RETURN AIR PLENUM OR DUCTWORK.
- ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH APPROVED NATIONAL STANDARDS PER CGCB 5.410.4.1.
- CONTRACTOR SHALL ROUTE CONDENSATE PIPING FROM THE DRAIN PAN TO AN APPROVED RECEPTOR.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BID OR START OF WORK.
- AN AIR FILTER WITH A MERV-13 OR HIGHER SHALL BE INSTALLED IN MECHANICAL SYSTEMS FOR OUTSIDE AIR AND RETURN AIR PRIOR TO OCCUPANCY.
- UNIT LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION AND COORDINATION WITH STRUCTURAL CONDITIONS.
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- CONTRACTOR SHALL WEATHERPROOF ALL ROOF PENETRATIONS.
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- ENVIRONMENTAL EXHAUST OUTLETS SHALL TERMINATE NO LESS THAN 3 FEET FROM PROPERTY, 3 FEET FROM OPENINGS INTO THE BUILDING, AND 10 FEET FROM THE MECHANICAL AIR INTAKES.
- ROOF PIPING INSULATION SHALL BE PROTECTED WITH ALUMINUM CLADDING COMPLETE WITH STAINLESS STEEL LOCKING BANDS.
- ALL PIPING ROOF PENETRATION FLASHING SHALL BE EPOXY COATED.
- REFRIGERANT PIPING SIZES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- PIPING PENETRATING FIRE-RESISTIVE ASSEMBLIES SHALL BE FIRE CAULKED/SEALED TO MAINTAIN THE INTEGRITY OF THE CONSTRUCTION.
- NEW PIPING SHALL BE CHEMICALLY CLEANED AND FLUSHED IN THE PRESENCE OF THE BUILDING MANAGEMENT'S REPRESENTATIVE USING CHEMICAL IN ACCORDANCE WITH BUILDING'S CHEMICAL TREATMENT COMPANY'S RECOMMENDATION. REFRIGERANT PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH ASHRAE 15 FOR RESPECTIVE REFRIGERANT TYPE.
- PIPING PENETRATING FULL HEIGHT WALLS SHALL BE ACOUSTICALLY SEALED.
- PIPING SHALL BE INSULATED IN ACCORDANCE WITH TABLE 120.3.A OF THE CALIFORNIA ENERGY CODE.
- ALL ROOF WORK AND REPAIRS SHALL BE COORDINATED WITH THE ARCHITECT, THE GENERAL CONTRACTOR, THE ROOFING CONTRACTOR AND THE BASE BUILDING ENGINEER.
- CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION OF ALL ROOFTOP MECHANICAL EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIRED REINFORCEMENT AND FRAMING. CONTRACTOR SHALL PROVIDE A COMPLETE START-UP REPORT ON ALL HVAC EQUIPMENT AND SUPPLY FANS IN ADDITION TO BALANCING.
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LEVEL 01 - HVAC PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

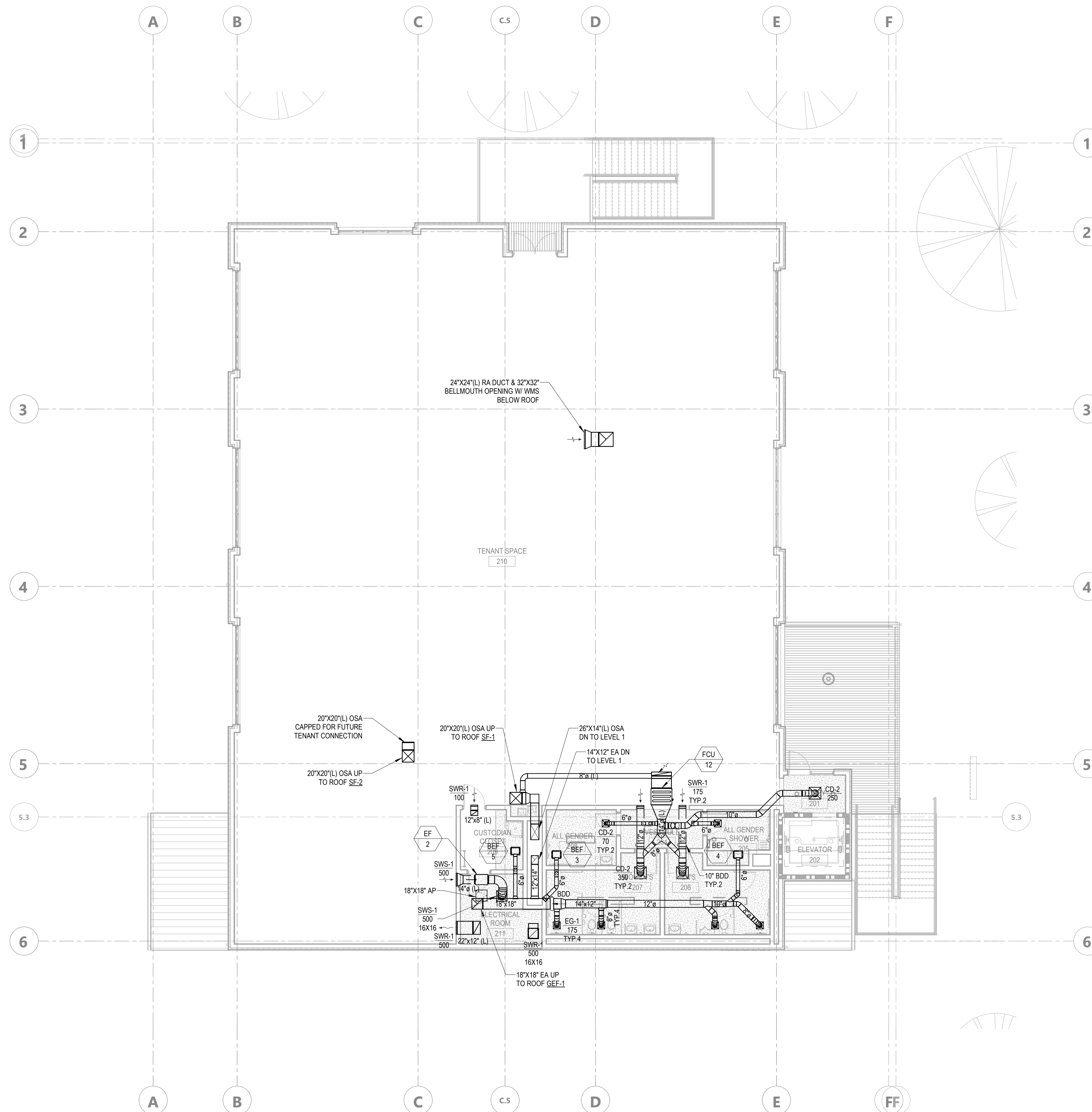
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LEVEL 02 - HVAC PLAN 1/8" = 1'-0" 1

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SHEET TITLE

LEVEL 02 - HVAC PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

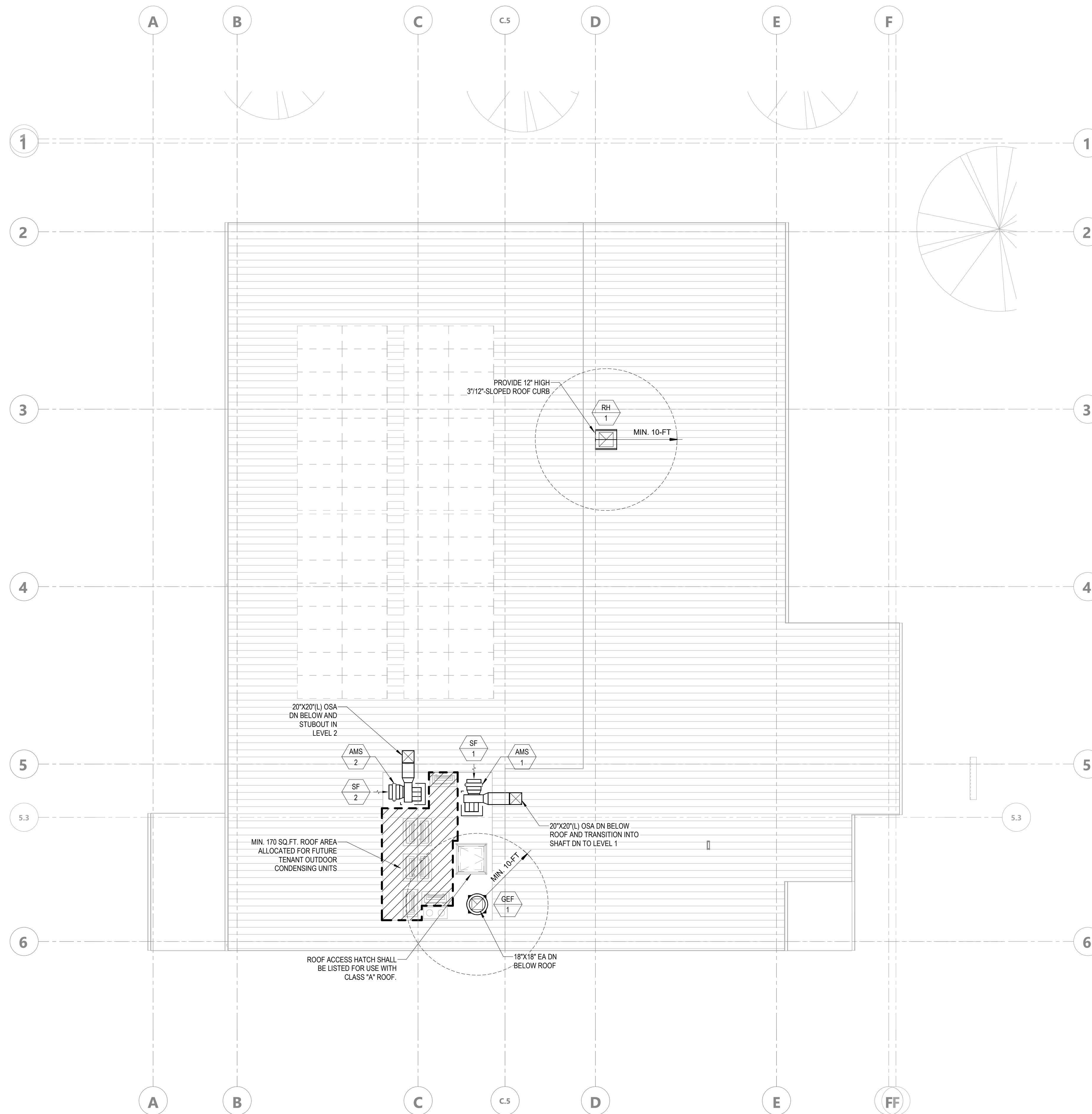
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CONSTRUCTION DOCUMENTS

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

KEYNOTE LEGEND

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- DRAWINGS ARE DIAGRAMMATIC. COORDINATE EXACT LOCATIONS WITH EXISTING CONDITIONS, ALL OTHER NEW WORK AND EQUIPMENT CONFIGURATIONS.
- PROVIDE AND INSTALL DUCT TYPE SMOKE DETECTORS ON THE SUPPLY AIR DUCT PLENUM OF THE AC UNITS WHICH SHALL BE INTERLOCKED WITH THE UNIT FOR SHUT-DOWN AND SHALL BE TIED INTO BUILDING FIRE LIFE SAFETY CONTROL PANEL. PROVIDE WITH REMOTE STATUS PANEL WITH RESET LED PUSH BUTTON.
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AGENCY APPROVAL DSAE 03-122884

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CALIFORNIA STATE FIRE MARSHAL
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Approved by: 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shufel

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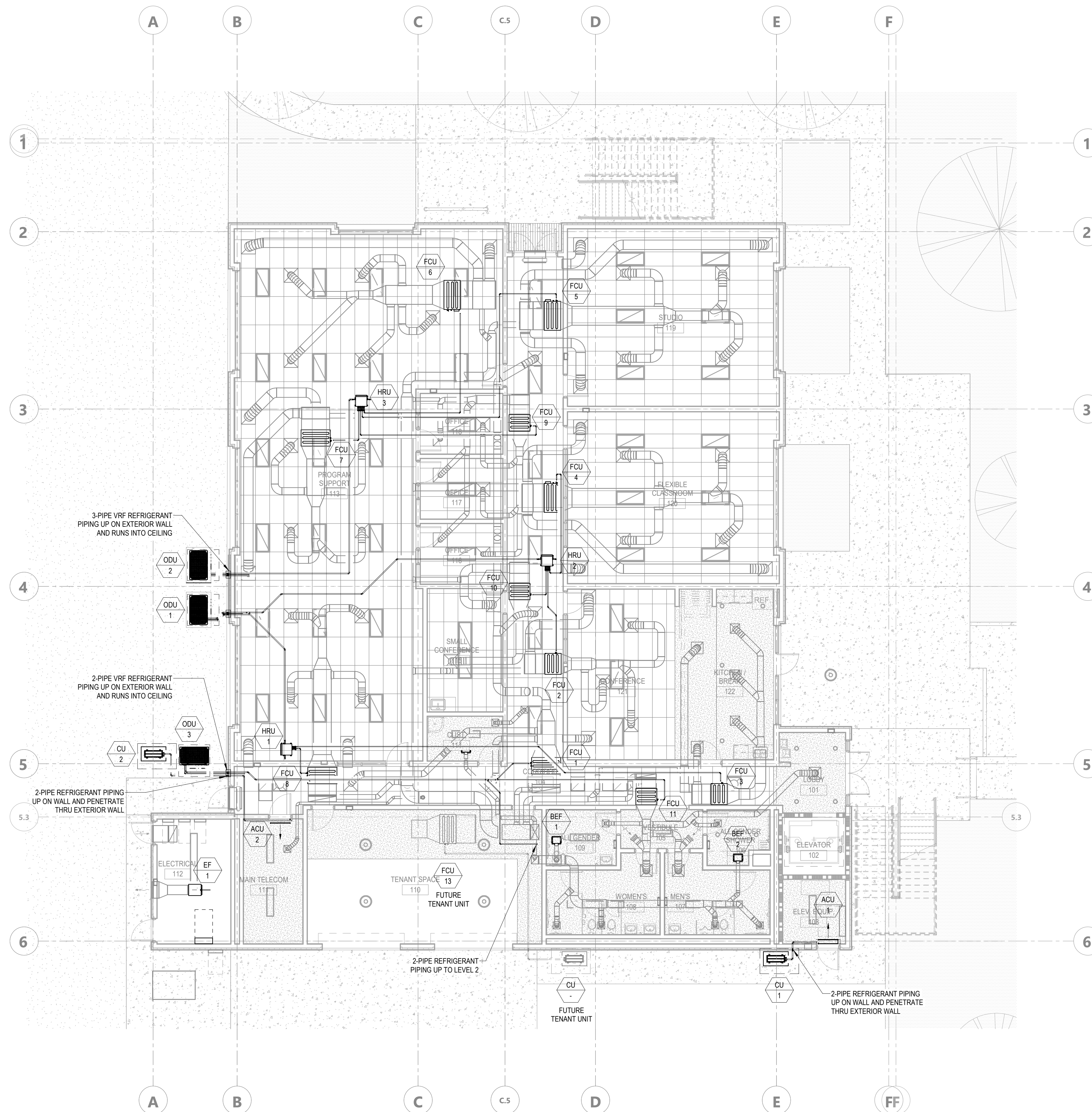
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LEVEL 01 - PIPING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

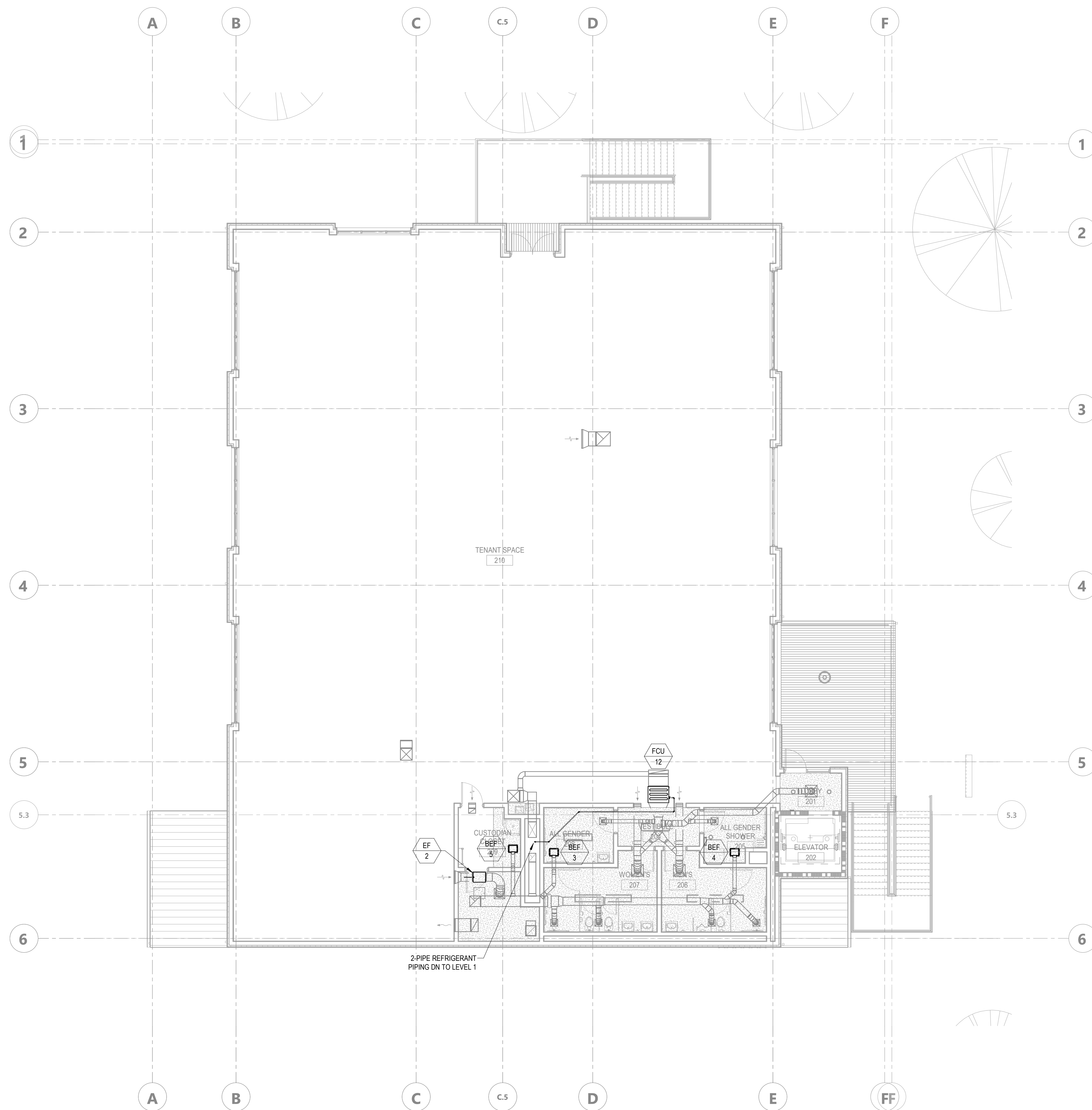
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M-301

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CONSTRUCTION DOCUMENTS

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- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL NEW EQUIPMENT AND SPECIALTY LOCATED ABOVE HARD LID CEILING.
- PROVIDE DUCT FLEX CONNECTORS ON ALL SUPPLY AND RETURN EXHAUST DUCT CONNECTIONS TO AC UNITS OR SUPPLY EXHAUST FANS.
- CONTRACTOR SHALL USE LOW LOSS CONICAL HIGH SIDE CONNECTION (45 DEG. CONVERGENCE) TAP-IN TO MAIN LOW PRESSURE DUCTWORK.
- EXPOSED DUCTS SHALL BE INSTALLED WITHOUT DENTS OR DEFECTS. USE COUPLINGS AT JOINTS SEALED WITH CLEAR SILICONE SEAL. ALL EXPOSED DUCTWORK SHALL BE ACoustICALLY LINED INTERNALLY (MIN. 1").
- ALL HVAC EQUIPMENT SHALL BE PROVIDED WITH DDC CONTROLS PER THE BASE BUILDING STANDARDS.
- UNIT CONDENSATE DRAIN SHALL BE PROPERLY TRAPPED, SUPPORTED AND SLOPED TO NEAREST CODE APPROVED PLUMBING RECEPTOR.
- EXPOSED DUCTWORK AND SUPPLY TERMINALS ROUTING AND ELEVATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- ALL INDOOR DUCTWORK SHALL BE PROVIDED WITH R-4.2 MINIMUM INSULATION PER T24.
- PROVIDE BACK DRAFT DAMPER AND VOLUME DAMPER WHERE OUTSIDE AIR DUCTS CONNECT TO RETURN AIR PLENUM OR DUCTWORK.
- ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH APPROVED NATIONAL STANDARDS PER CGCB 5.410.4.3.1.
- CONTRACTOR SHALL ROUTE CONDENSATE PIPING FROM THE DRAIN PAN TO AN APPROVED RECEPTOR.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BID OR START OF WORK.
- AN AIR FILTER WITH A MERV-13 OR HIGHER SHALL BE INSTALLED IN MECHANICAL SYSTEMS FOR OUTSIDE AIR AND RETURN AIR PRIOR TO OCCUPANCY.
- ALL UNIT LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION AND COORDINATION WITH STRUCTURAL CONDITIONS.
- UNIT LOCATION SHALL MAINTAIN ALL MANUFACTURER'S REQUIRED CLEARANCES FOR REPAIR AND MAINTENANCE.
- WIRING, INSTALLATION AND FUTURE SERVICE CLEARANCES FOR ALL HVAC EQUIPMENT SHALL BE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL WEATHERPROOF ALL ROOF PENETRATIONS.
- PROVIDE LONG RADIUS BENTS AND LOW LOSS FITTINGS ON ALL REFRIGERANT LINES PER MANUFACTURER'S PIPING INSTALLATION RECOMMENDATIONS.
- ENVIRONMENTAL EXHAUST OUTLETS SHALL TERMINATE NO LESS THAN 3 FEET FROM PROPERTY, 3 FEET FROM OPENINGS INTO THE BUILDING, AND 10 FEET FROM THE MECHANICAL AIR INTAKES.
- ROOF PIPING INSULATION SHALL BE PROTECTED WITH ALUMINUM CLADDING COMPLETE WITH STAINLESS STEEL LOCKING BANDS.
- ALL PIPING ROOF PENETRATION FLASHING SHALL BE EPOXY COATED.
- REFRIGERANT PIPING SIZES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- PIPING PENETRATING FIRE-RESISTIVE ASSEMBLIES SHALL BE FIRE CAULKED/SEALED TO MAINTAIN THE INTEGRITY OF THE CONSTRUCTION.
- NEW PIPING SHALL BE CHEMICALLY CLEANED AND FLUSHED IN THE PRESENCE OF THE BUILDING MANAGEMENT'S REPRESENTATIVE USING CHEMICAL IN ACCORDANCE WITH BUILDING'S CHEMICAL TREATMENT COMPANY'S RECOMMENDATION. REFRIGERANT PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH ASHRAE 15 FOR RESPECTIVE REFRIGERANT TYPE.
- PIPING PENETRATING FULL HEIGHT WALLS SHALL BE ACoustICALLY SEALED.
- PIPING SHALL BE INSULATED IN ACCORDANCE WITH TABLE 120.3.A OF THE CALIFORNIA ENERGY CODE.
- ALL ROOF WORK AND REPAIRS SHALL BE COORDINATED WITH THE ARCHITECT, THE GENERAL CONTRACTOR, THE ROOFING CONTRACTOR AND THE BASE BUILDING ENGINEER.
- CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION OF ALL ROOFTOP MECHANICAL EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIRED REINFORCEMENT AND FRAMING. CONTRACTOR SHALL PROVIDE A COMPLETE START-UP REPORT ON ALL HVAC EQUIPMENT AND SUPPLY FANS IN ADDITION TO BALANCING.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT LOADS TO BE PLACED/ATTACHED TO THE MECHANICAL PLATFORM WITH STRUCTURAL ENGINEER, ARCHITECTURAL AND MEP ENGINEER.
- CONTRACTOR SHALL PROVIDE AND INSTALL VIBRATION ISOLATORS AND SEISMIC RESTRAINTS TO ALL MECHANICAL EQUIPMENT WITHIN THE SPACE. CONTRACTOR SHALL COORDINATE MOUNTING AND ANCHORAGE LOCATION WITH GENERAL CONTRACTOR AND APPROVED BY STRUCTURAL ENGINEER.
- MECHANICAL CONTRACTOR TO COORDINATE AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR PIPE SUPPORTS, SEISMIC RESTRAINTS, CONNECTION AND ANCHORAGE/MOUNTING TO THE STRUCTURE.

AGENCY APPROVAL DSA# 03-122884

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Approved by: 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shufel

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ARCHITECT STAMP	CONSULTANT STAMP

NO.	DATE	DESCRIPTION
1	2022-12-22	ISSUE FOR PLAN CHECK
2	2023-03-08	100% CD
3	2023-08-09	MS COMMENT REVISION

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CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE

LEVEL 02 - PIPING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

M-302

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

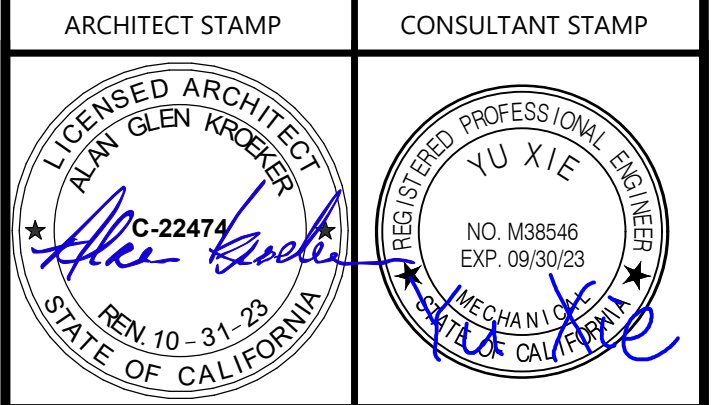


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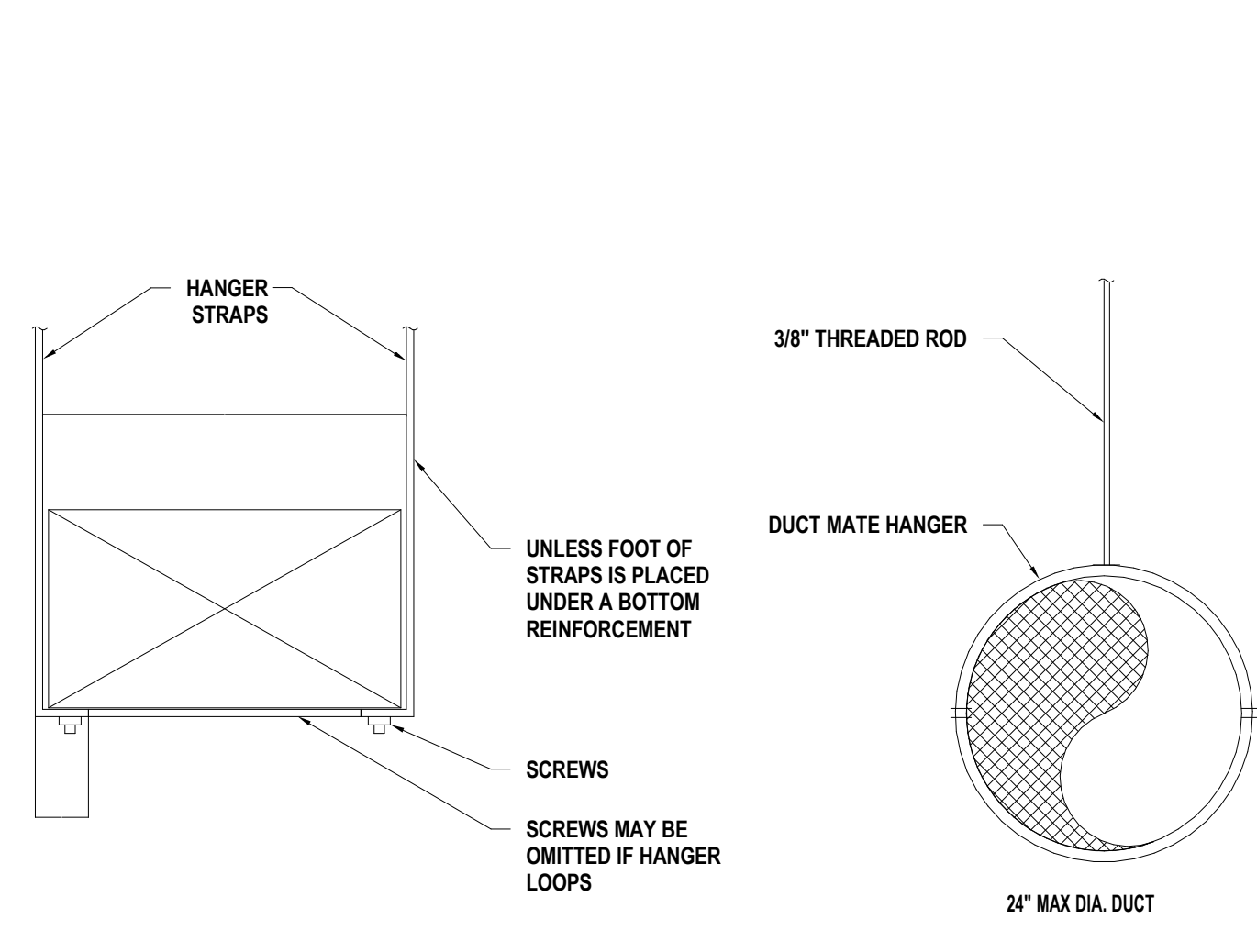
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SHEET TITLE
MECHANICAL DETAILS
DRAWN BY: Author JOB NUMBER: 21179.01
SHEET NO.
M-501
DATE: APRIL 11, 2023

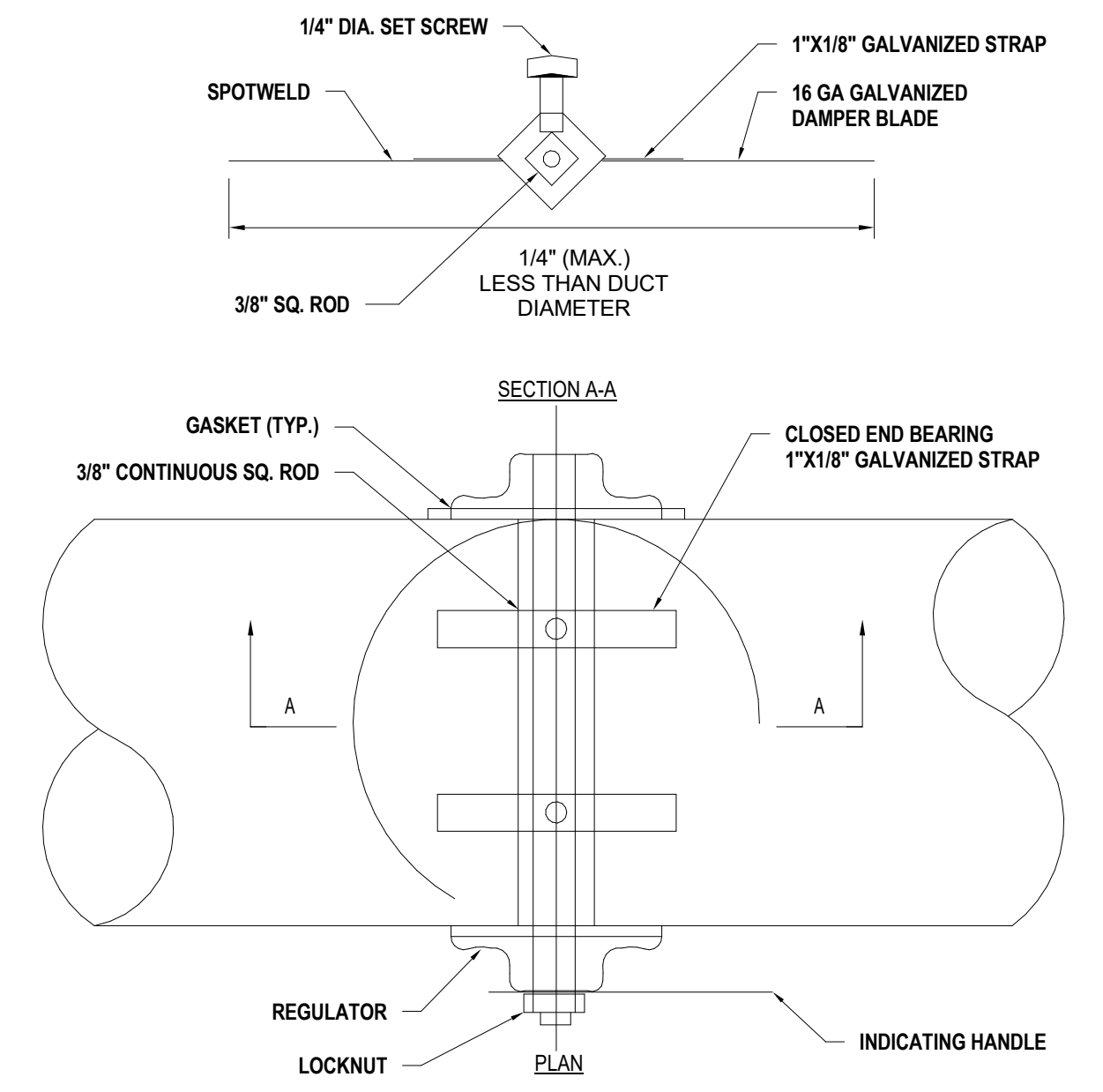


- NOTES:**
- DUCT SUPPORTS SHALL COMPLY WITH 2005 SMACNA STANDARDS TABLES 5-1, 5-1M AND 5-2.
 - REFER TO 2005 SMACNA STANDARDS TABLES 5-1, 5-1M AND 5-2 FOR STRAP, WIRE AND SPACING CRITERIA.

DUCT HANGER DETAIL

10 MS.01

NOT TO SCALE

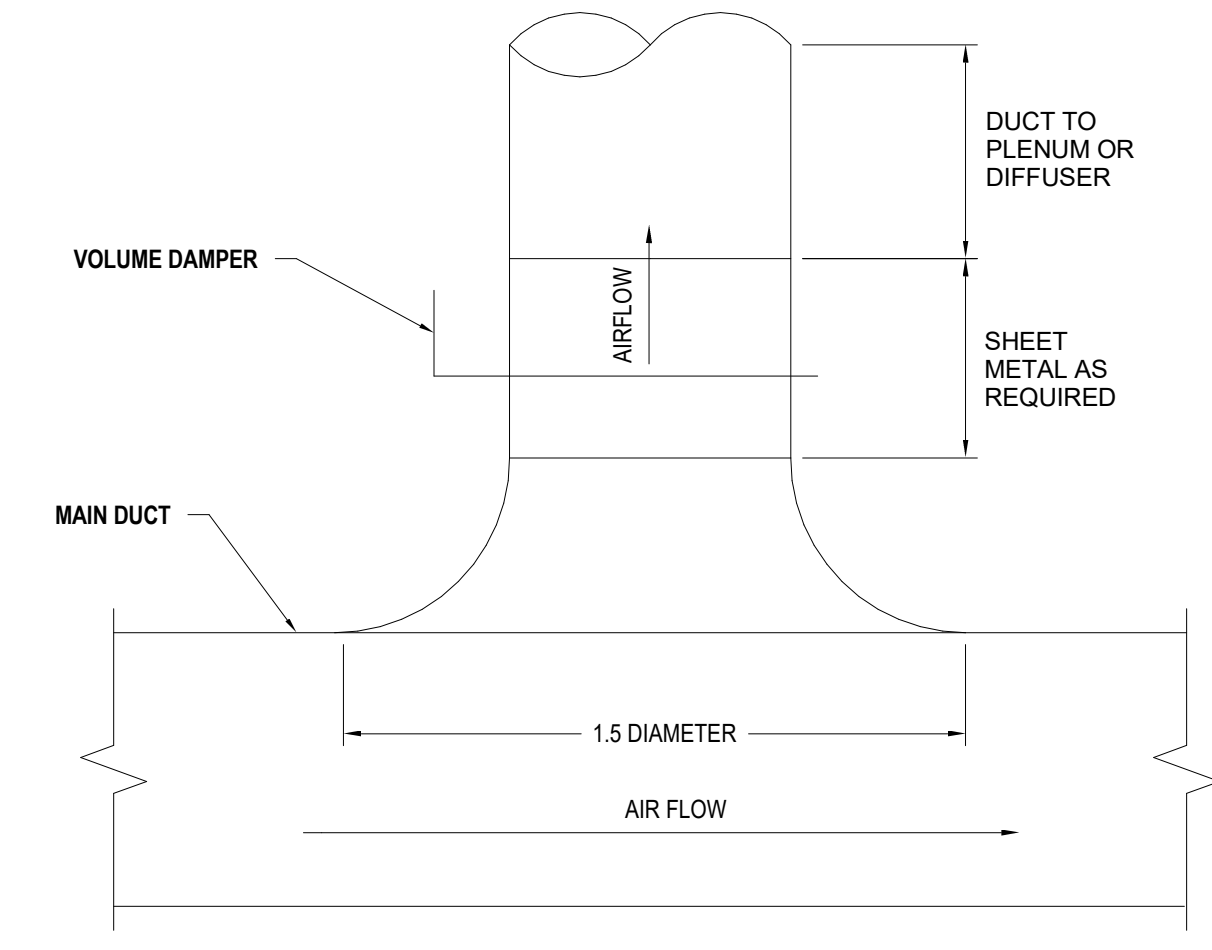


- NOTES:**
- LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION POSITION.
 - PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.
 - PROVIDE FLUORESCENT COLORED MARKERS AT ALL VOLUME DAMPERS LOCATIONS.

ROUND VOLUME DAMPER (UP TO 14" DIA)

07 MS.01

NOT TO SCALE

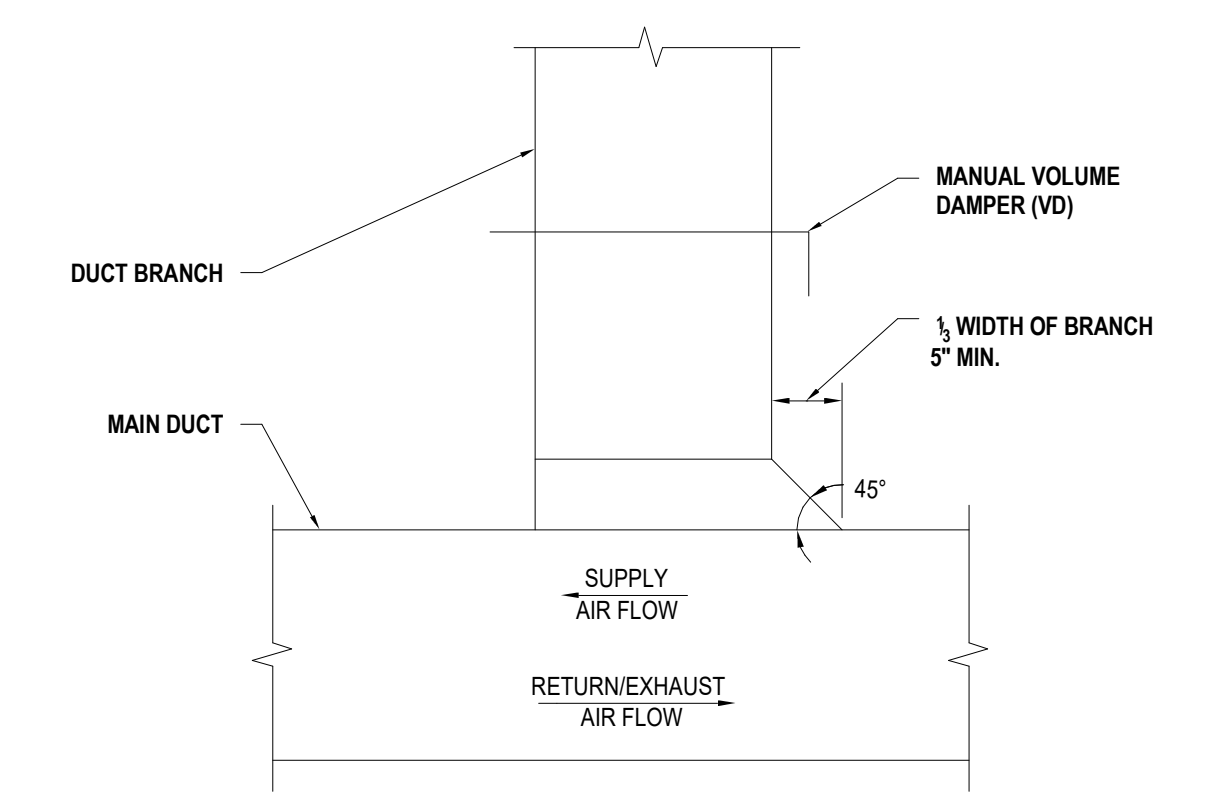


- NOTES:**
- FURNISH THIS TYPE CONNECTION WHEN DUCTWORK IS DRAWN SIMILAR TO THIS FOR BRANCHES WITH MORE THAN 25% OF TOTAL AIR FLOW.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 7M5.01 AND DETAIL 8M5.01.

ROUND SUPPLY DUCT BRANCH CONNECTION

04 MS.01

NOT TO SCALE

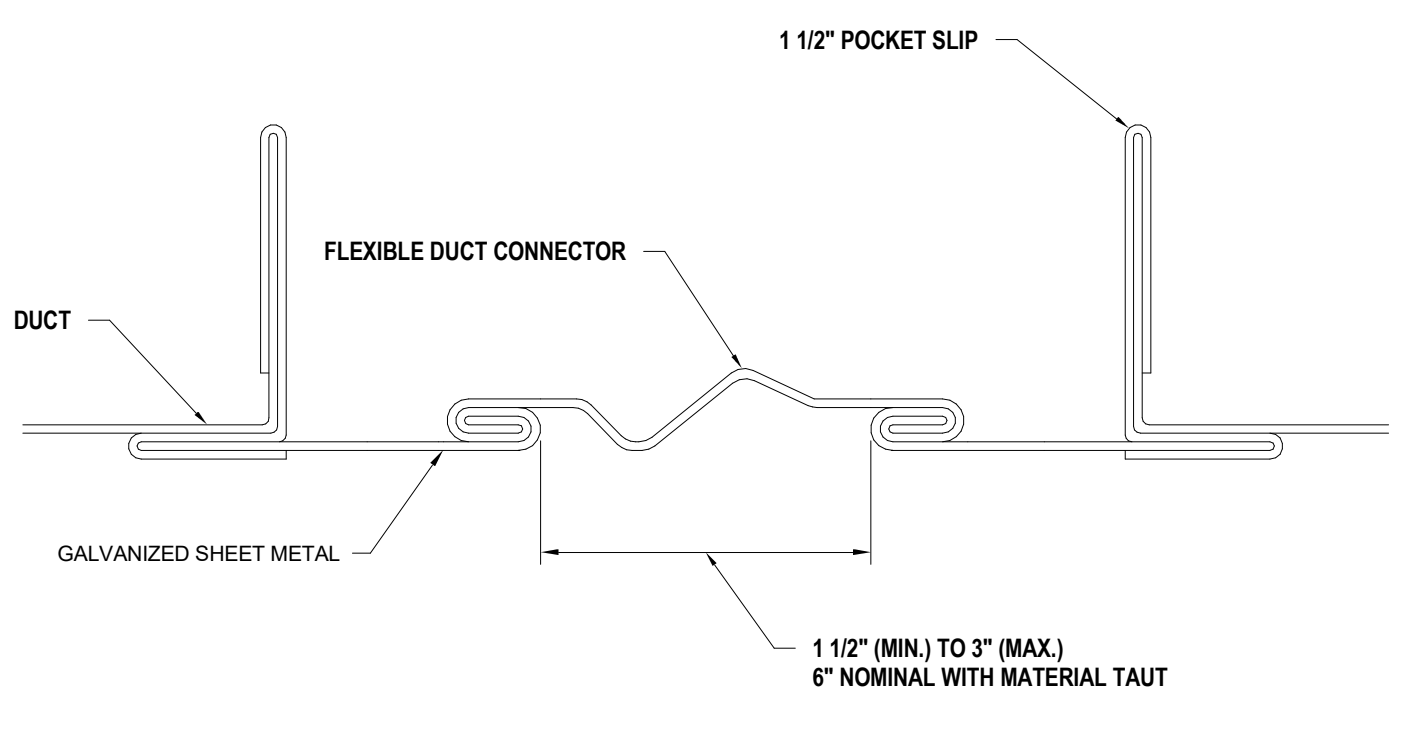


- NOTES:**
- FURNISH THIS TYPE OF CONNECTION WHEN DUCTWORK IS DRAWN SIMILAR TO THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW, OR WHERE INDICATED ON DRAWINGS.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 7M5.01.
 - SLIP-IN VOLUME DAMPER HOUSING WILL NOT BE ALLOWED.

RECTANGULAR DUCT BRANCH TO MAIN CONNECTION

01 MS.01

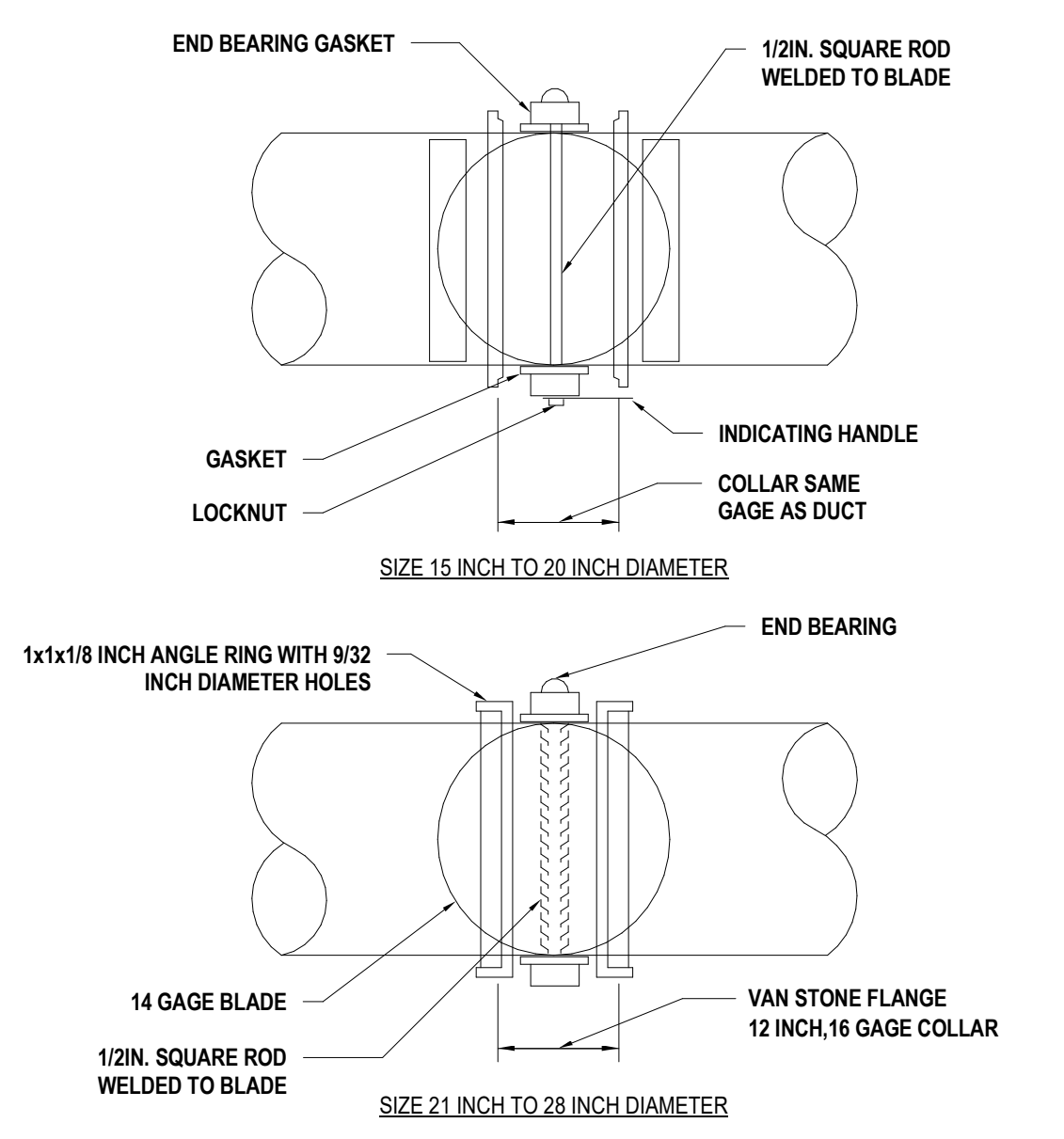
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FLEXIBLE DUCT CONNECTOR

11 MS.01

NOT TO SCALE

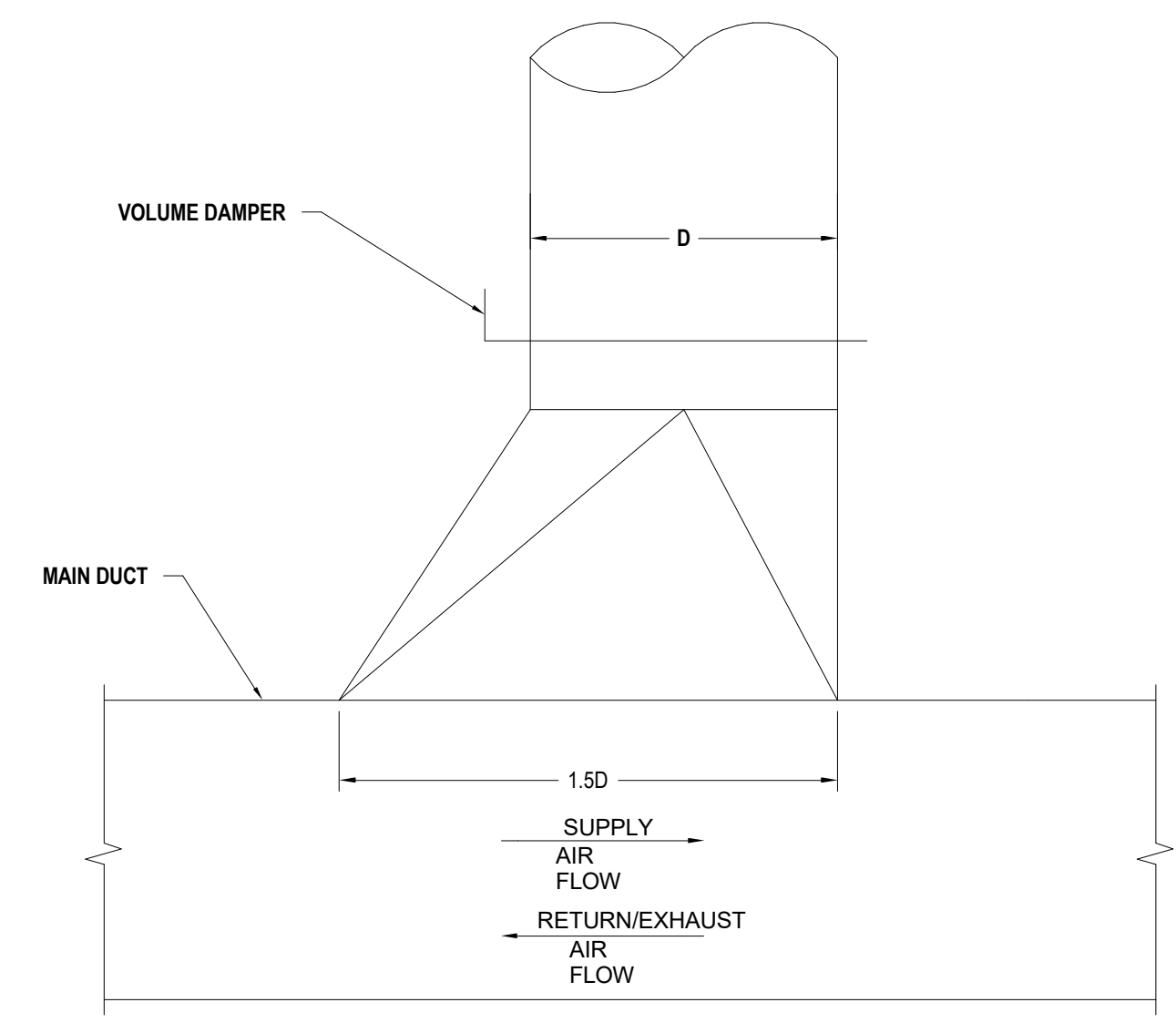


- NOTES:**
- LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION POSITION.
 - PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.
 - PROVIDE FLUORESCENT COLORED MARKERS AT ALL VOLUME DAMPERS LOCATIONS.

ROUND VOLUME DAMPER (LARGER THAN 14" DIA)

08 MS.01

NOT TO SCALE

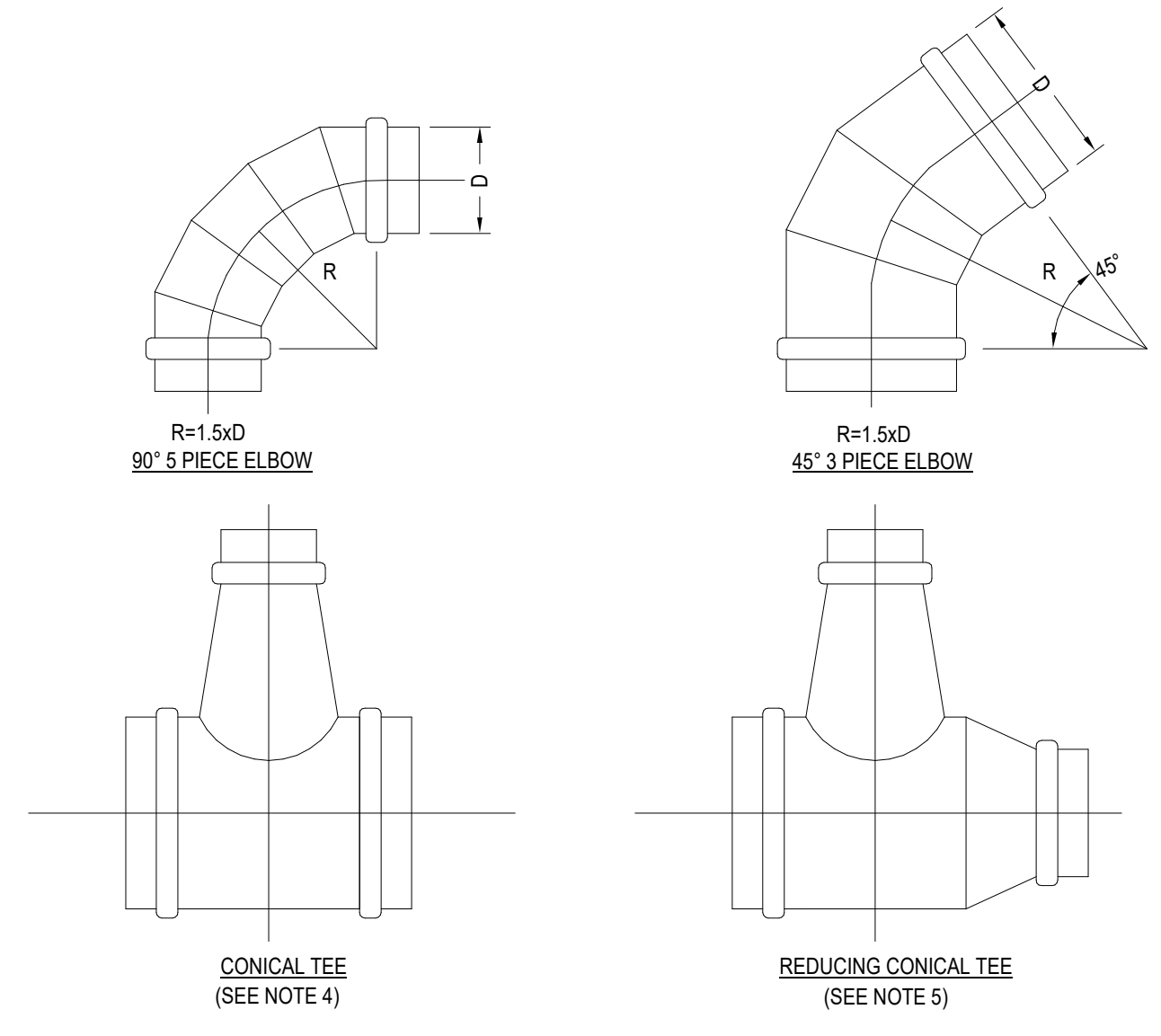


- NOTES:**
- FURNISH THIS TYPE CONNECTION WHEN DUCTWORK IS DRAWN SIMILAR TO THIS FOR BRANCHES WITH LESS THAN 25% OF TOTAL AIR FLOW.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 7M5.01 AND DETAIL 8M5.01.

ROUND DUCT BRANCH TO MAIN RECT. CONNECTION

05 MS.01

NOT TO SCALE

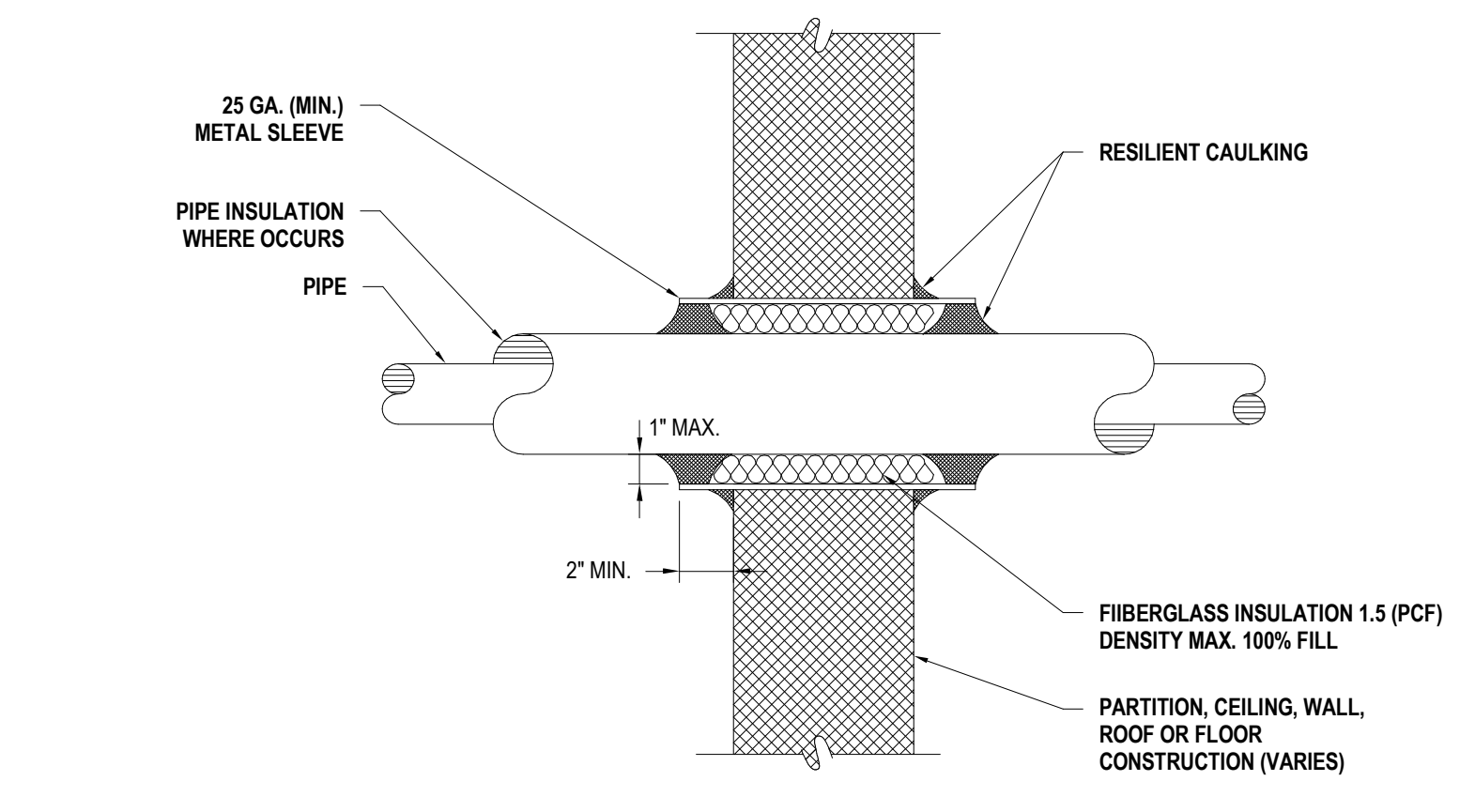


- NOTES:**
- FITTINGS TO BE MIN. 2 GAUGES HEAVIER THAN CONNECTED DUCT.
 - ADJUSTABLE ELBOWS WILL BE PERMITTED FOR DUCT CONSTRUCTION OF 2" W.G. OR LESS.
 - PROVIDE CONTINUOUS SEALANT AT EACH FITTING JOINT.
 - PROVIDE THIS TYPE OF CONNECTION FOR BRANCHES WHEN DUCTWORK IS DRAWN SIMILAR TO THIS.

ROUND DUCT FITTINGS

02 MS.01

NOT TO SCALE

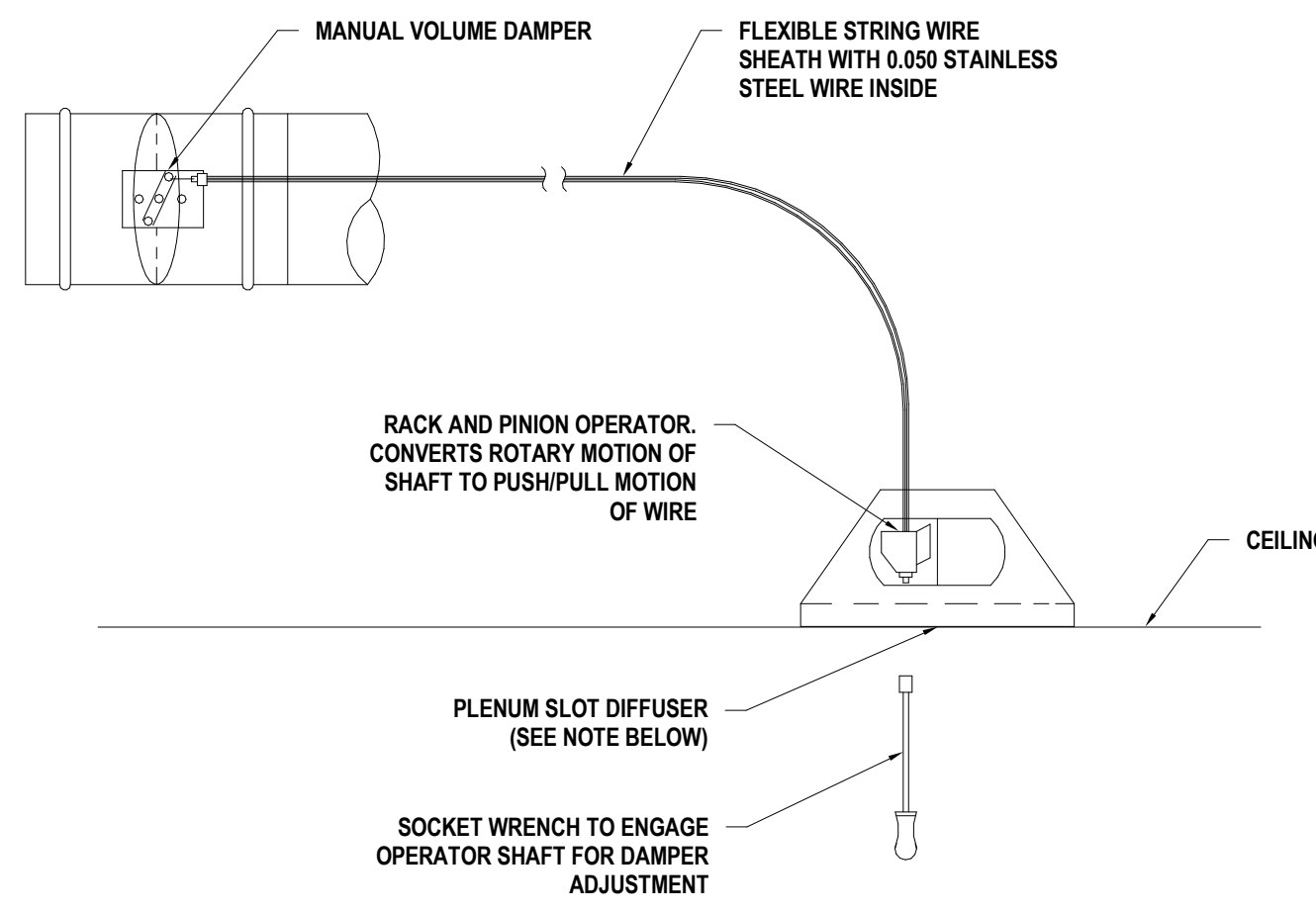


- NOTES:**
- SPACE BETWEEN PIPE AND SLEEVE SHALL BE FREE OF ANY FOREIGN MATERIALS.
 - PIPE SHALL NOT CONTACT STRUCTURE AT ANY TIME. WEDGES SHALL NOT BE USED TO MAINTAIN PIPE IN POSITION.
 - PIPE MUST BE APPROXIMATELY CENTERED IN OPENING. PROVIDE ADDITIONAL CLEARANCE FOR POSITIONAL CHANGE OF PIPE DUE TO LOADING OF PIPE OR OPERATION OF SYSTEM.

PIPE THRU FULL HEIGHT PARTITION PENETRATION

12 MS.01

NOT TO SCALE

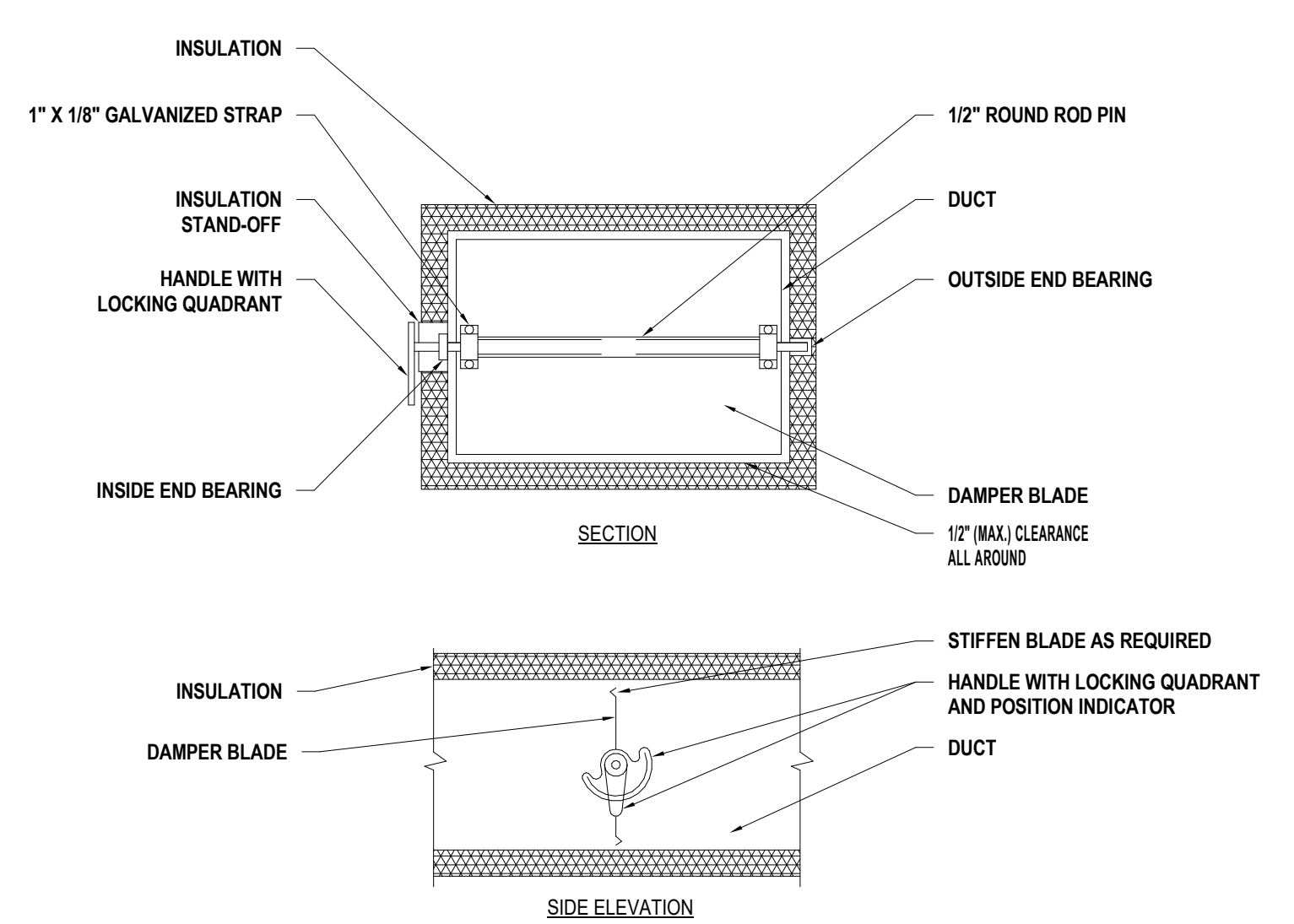


- NOTES:**
- DIFFUSER OR REGISTER LOCATED IN GYP BOARD CEILING.
 - PROVIDE YOUNG REGULATOR FOR ALL MANUAL VOLUME DAMPERS INSTALLED IN INACCESSIBLE CEILING OR HARD TO REACH PLACES.
 - FOR CEILING TYPE AND CONSTRUCTION SEE ARCHITECTURAL DWGS.

BOWDEN TYPE CABLE CONTROL (YOUNG'S REGULATOR)

09 MS.01

NOT TO SCALE

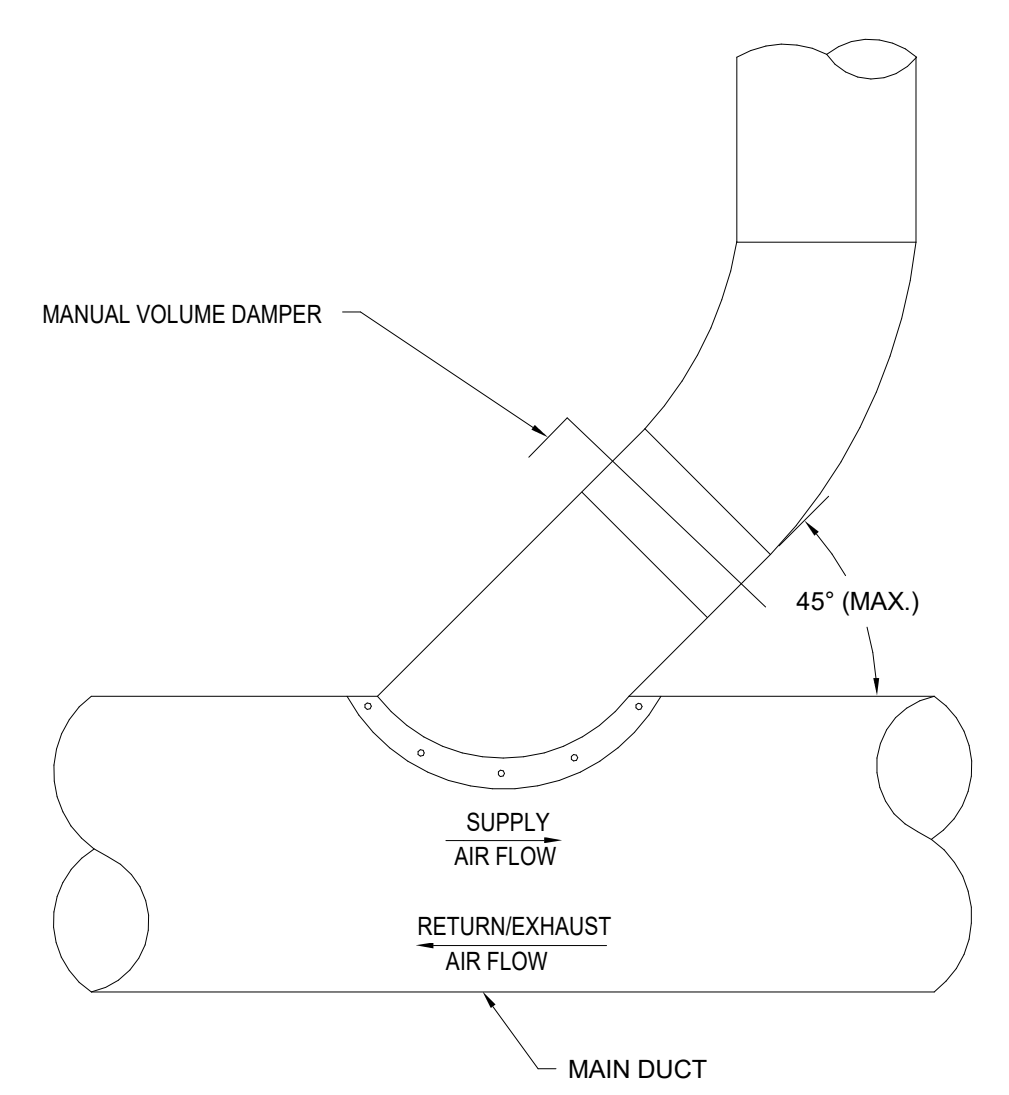


- NOTES:**
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 - DETAIL SHOWS SINGLE BLADE DAMPER. MULTI-BLADE DAMPERS INSTALLATIONS SHALL BE SIMILAR.
 - LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION.
 - PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.
 - PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL VOLUME DAMPERS LOCATIONS.

RECTANGULAR MANUAL VOLUME DAMPER

06 MS.01

NOT TO SCALE



- NOTES:**
- FURNISH LATERAL TEE CONNECTION FOR BRANCHES WHEN DUCTWORK IS DRAWN SIMILAR TO THIS.
 - FOR MANUAL VOLUME DAMPER SEE DETAIL 7M5.01 AND DETAIL 8M5.01.

ROUND DUCT BRANCH TO ROUND MAIN CONNECTION

03 MS.01

NOT TO SCALE

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Approved by: *[Signature]* 07/18/2023
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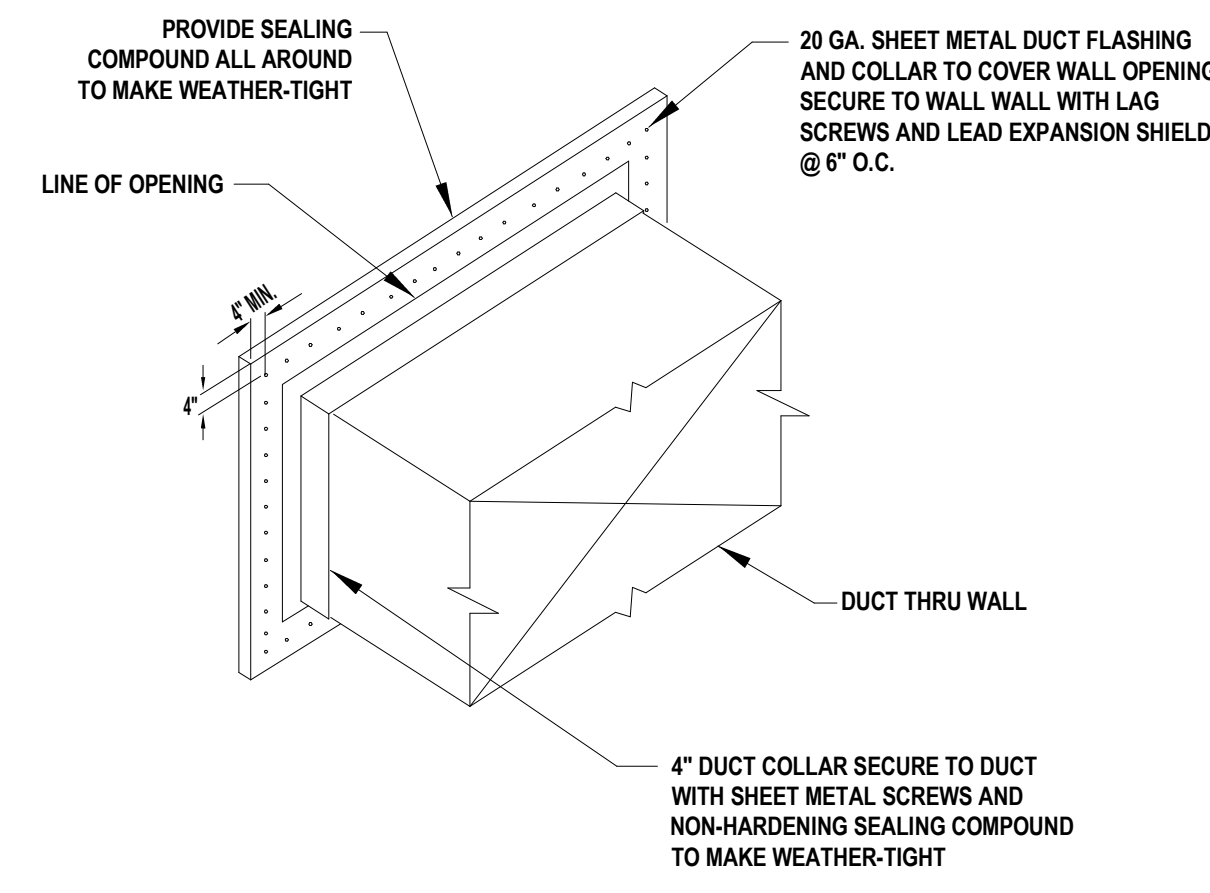
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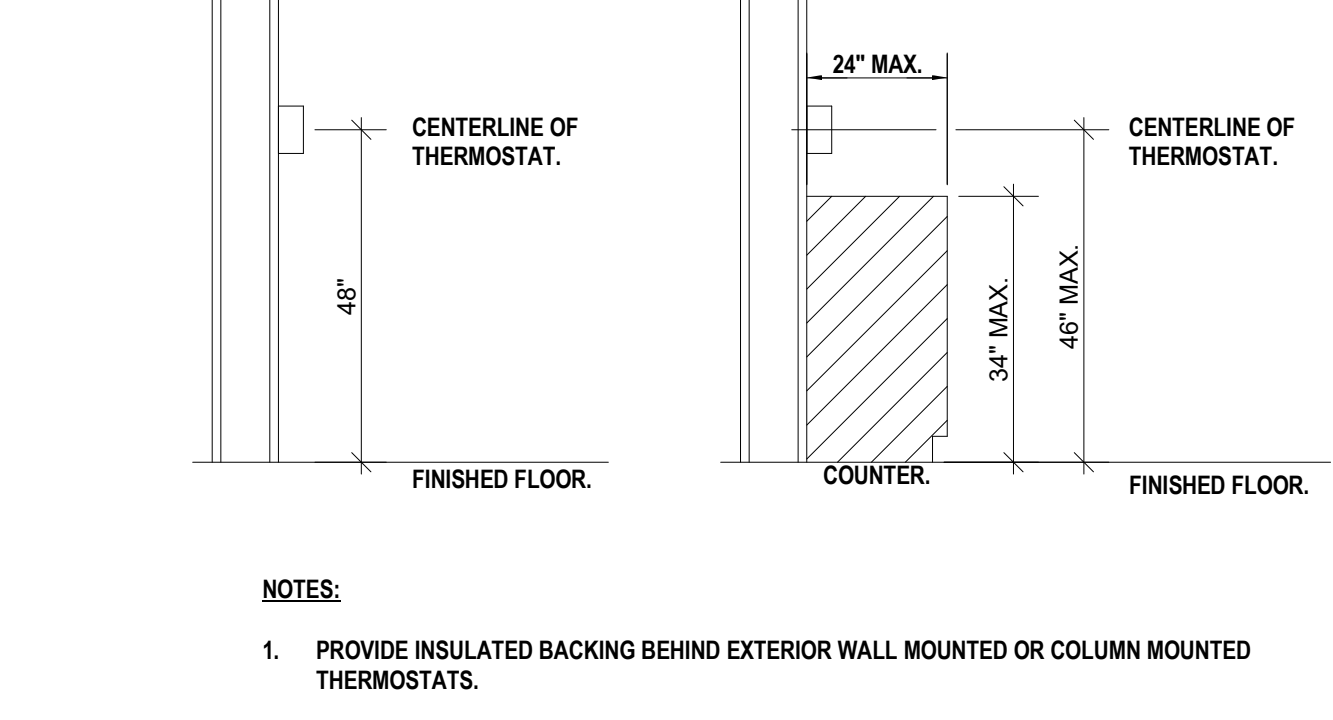
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SHEET TITLE
MECHANICAL DETAILS

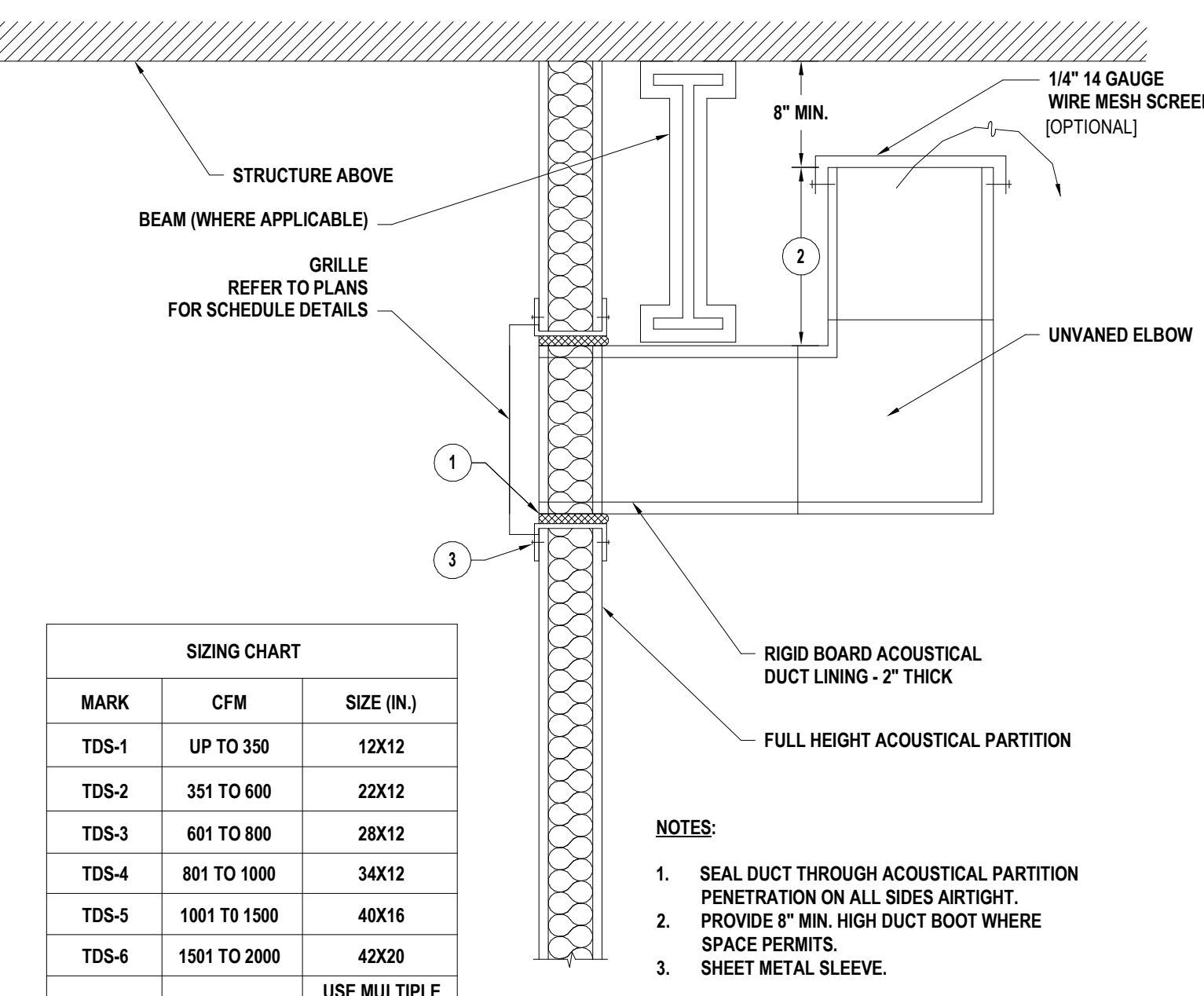
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SHEET NO.
M-502
DATE: APRIL 11, 2023



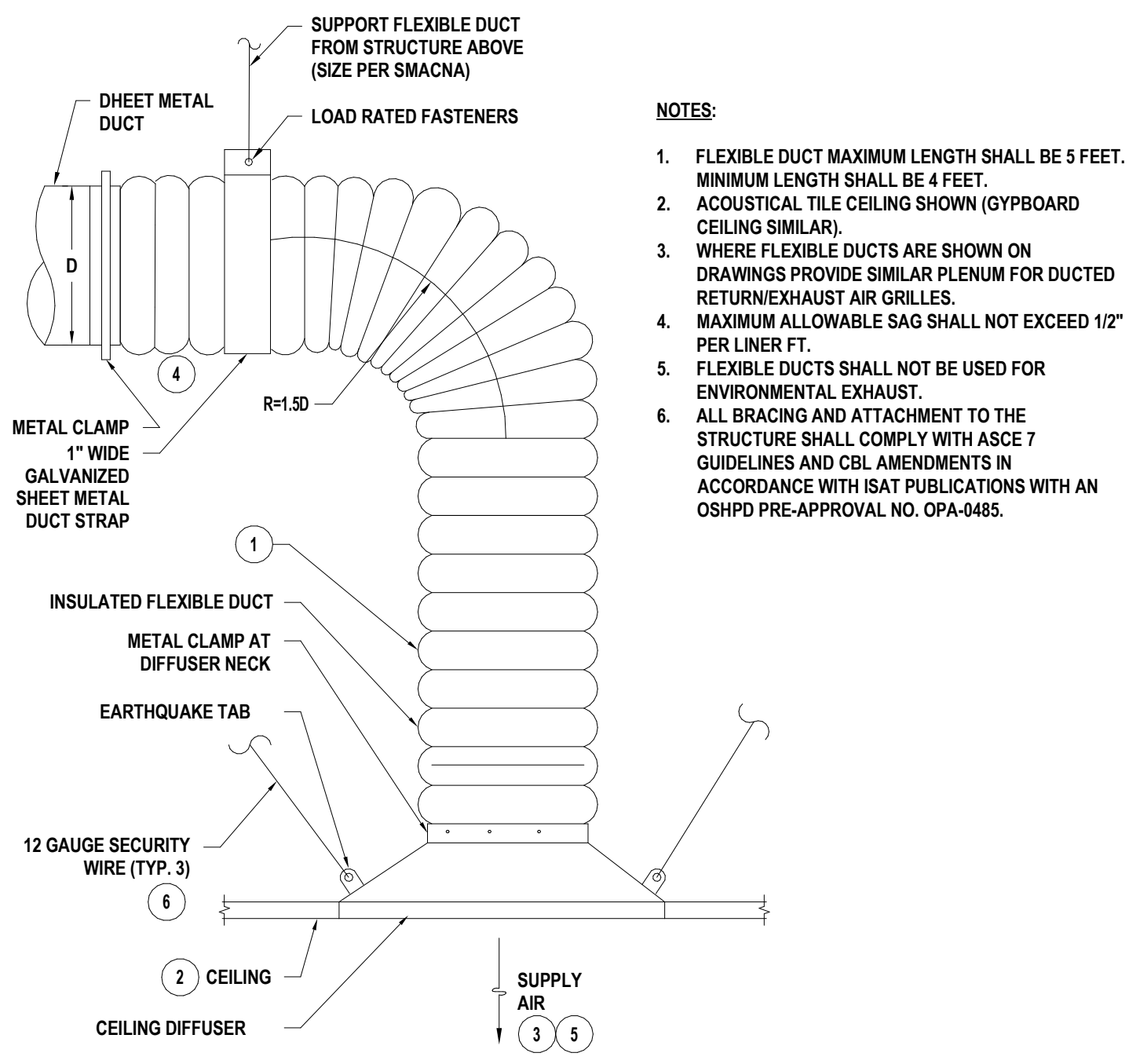
10 MS.02
DUCT THRU WALL DETAIL
NOT TO SCALE



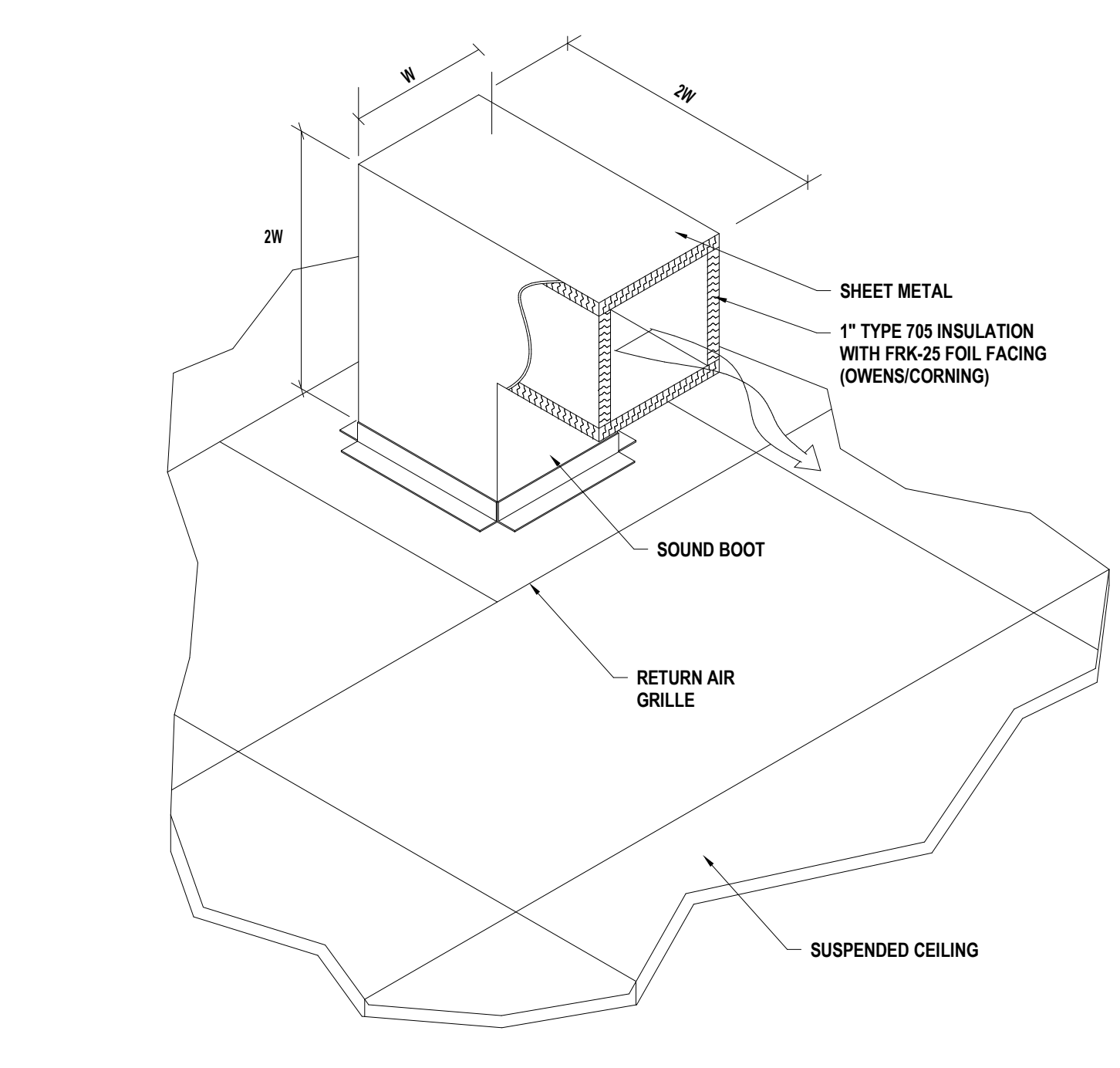
07 MS.02
THERMOSTAT MOUNTING DETAIL
NOT TO SCALE



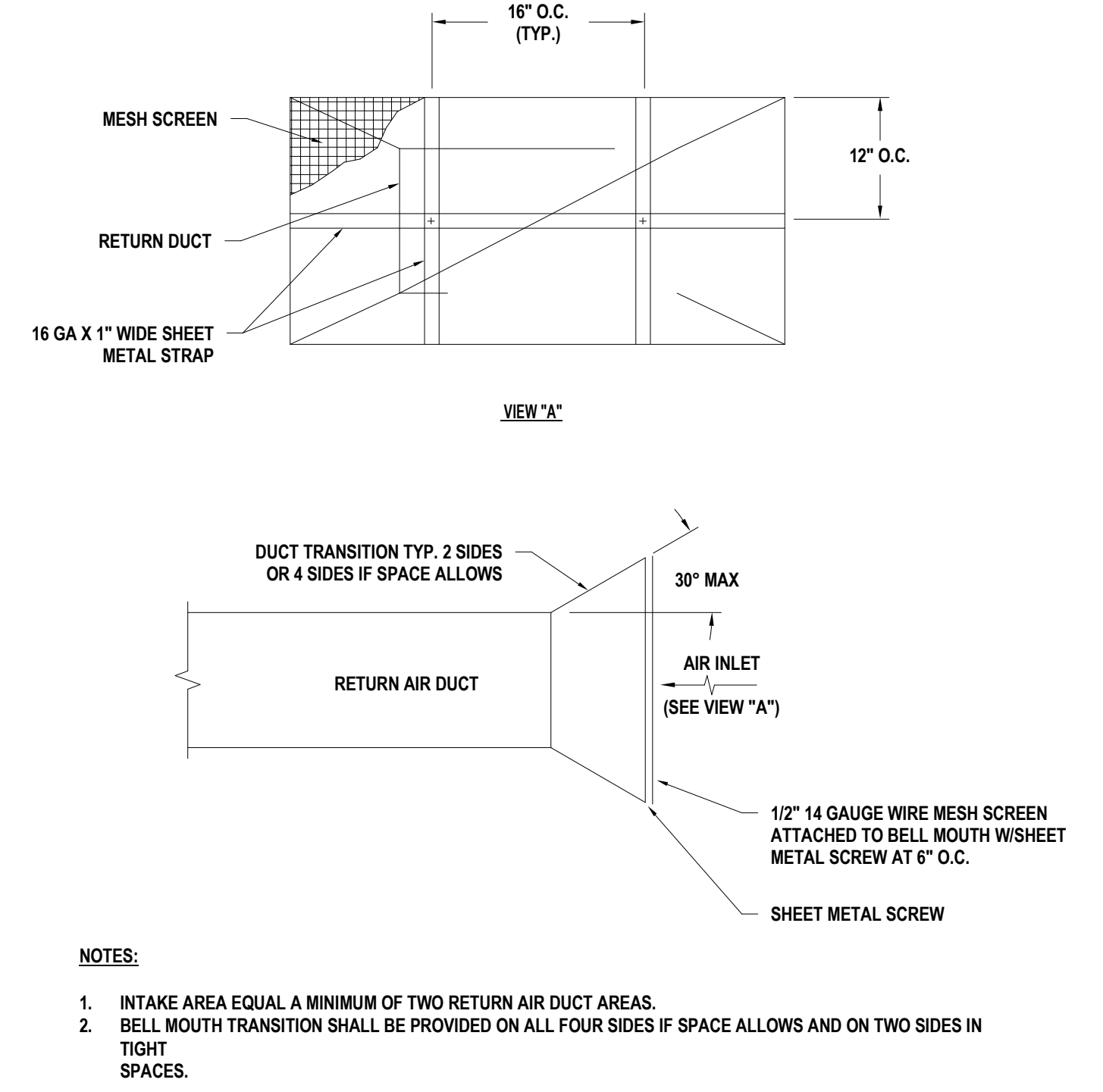
04 MS.02
TYPICAL TRANSFER BOOT W/ GRILLE
NOT TO SCALE



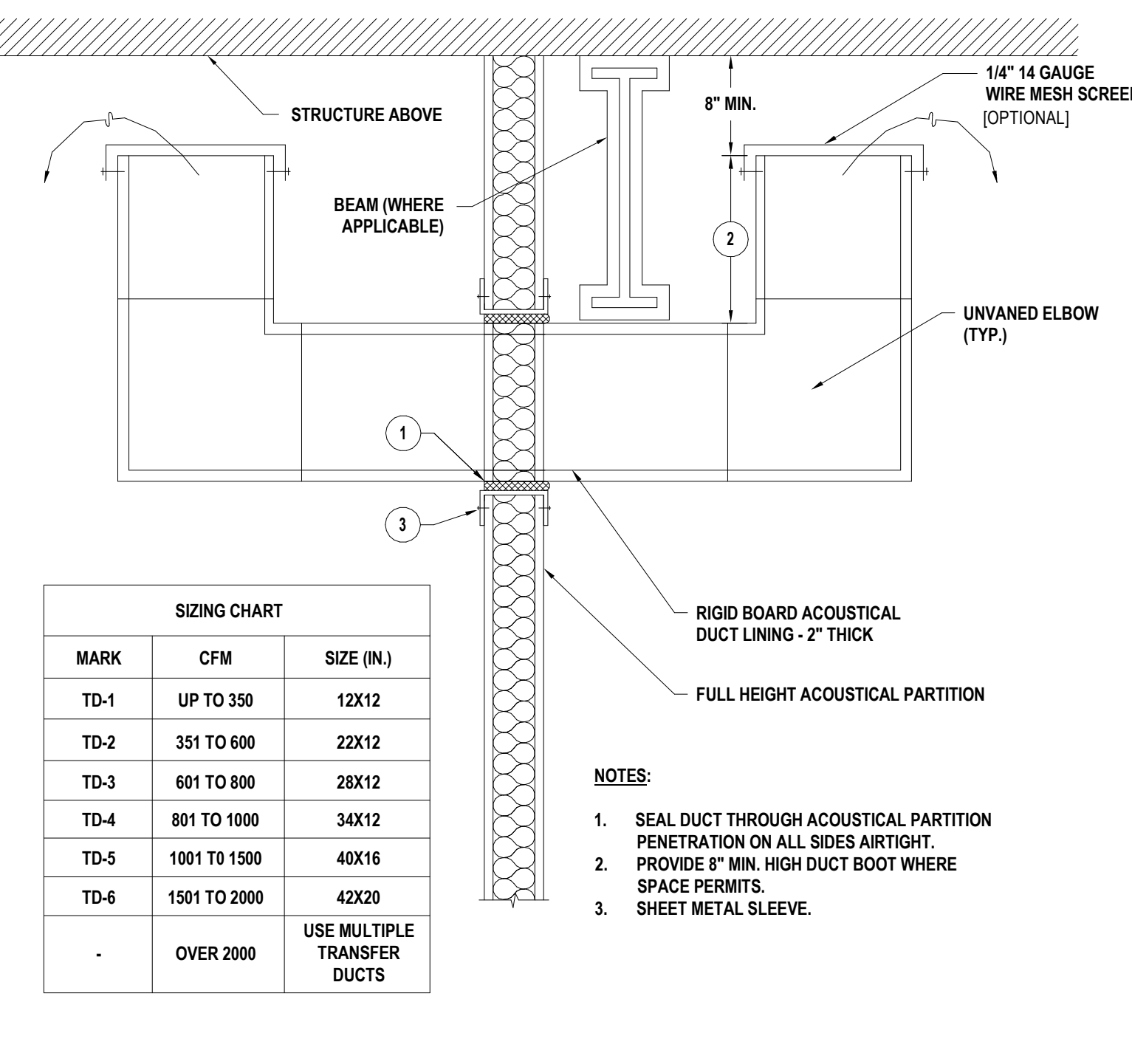
01 MS.02
SUPPLY DIFFUSER CONNECTION
NOT TO SCALE



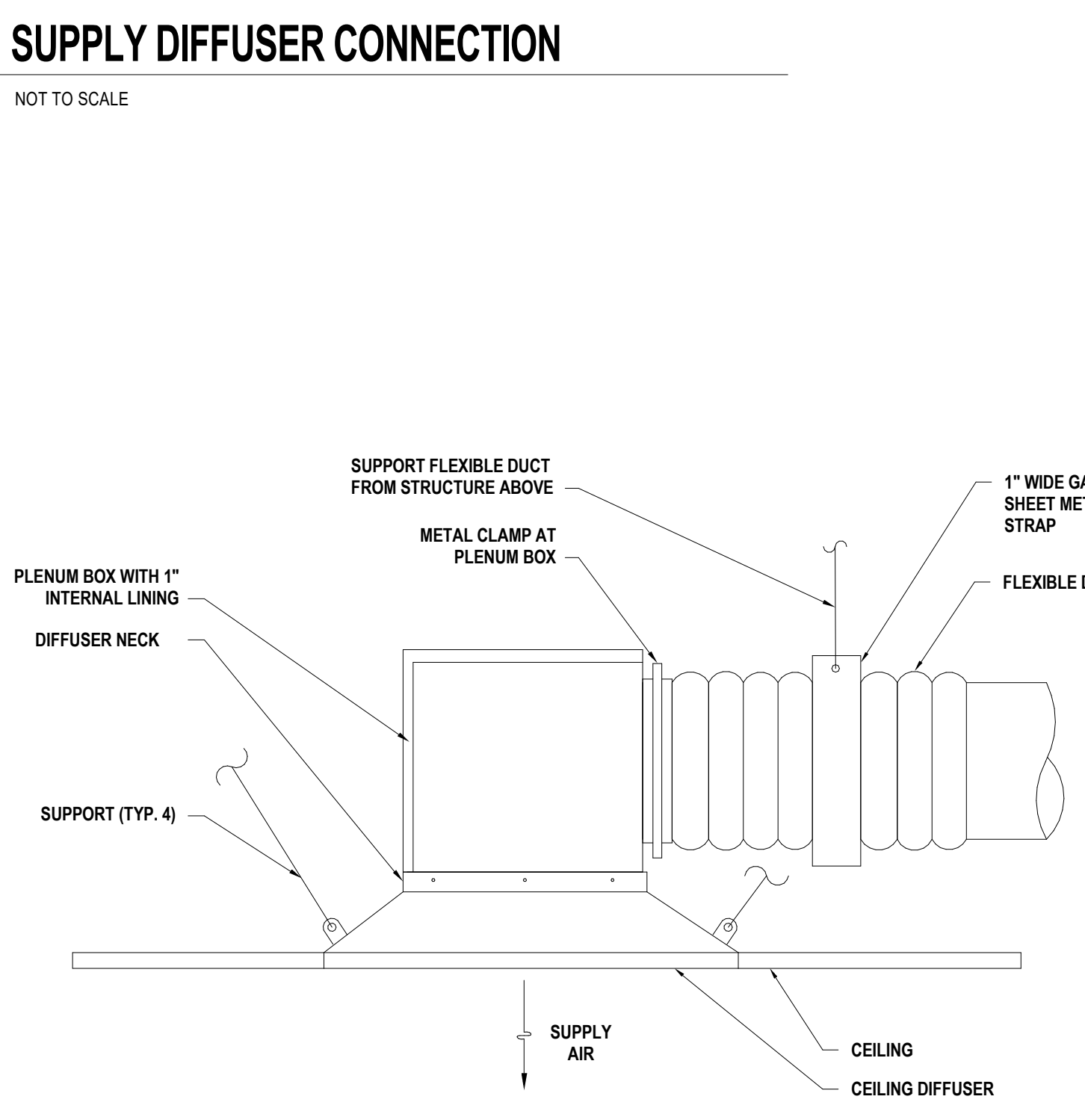
11 MS.02
CEILING RETURN AIR GRILLE W/ SOUND BOOT
NOT TO SCALE



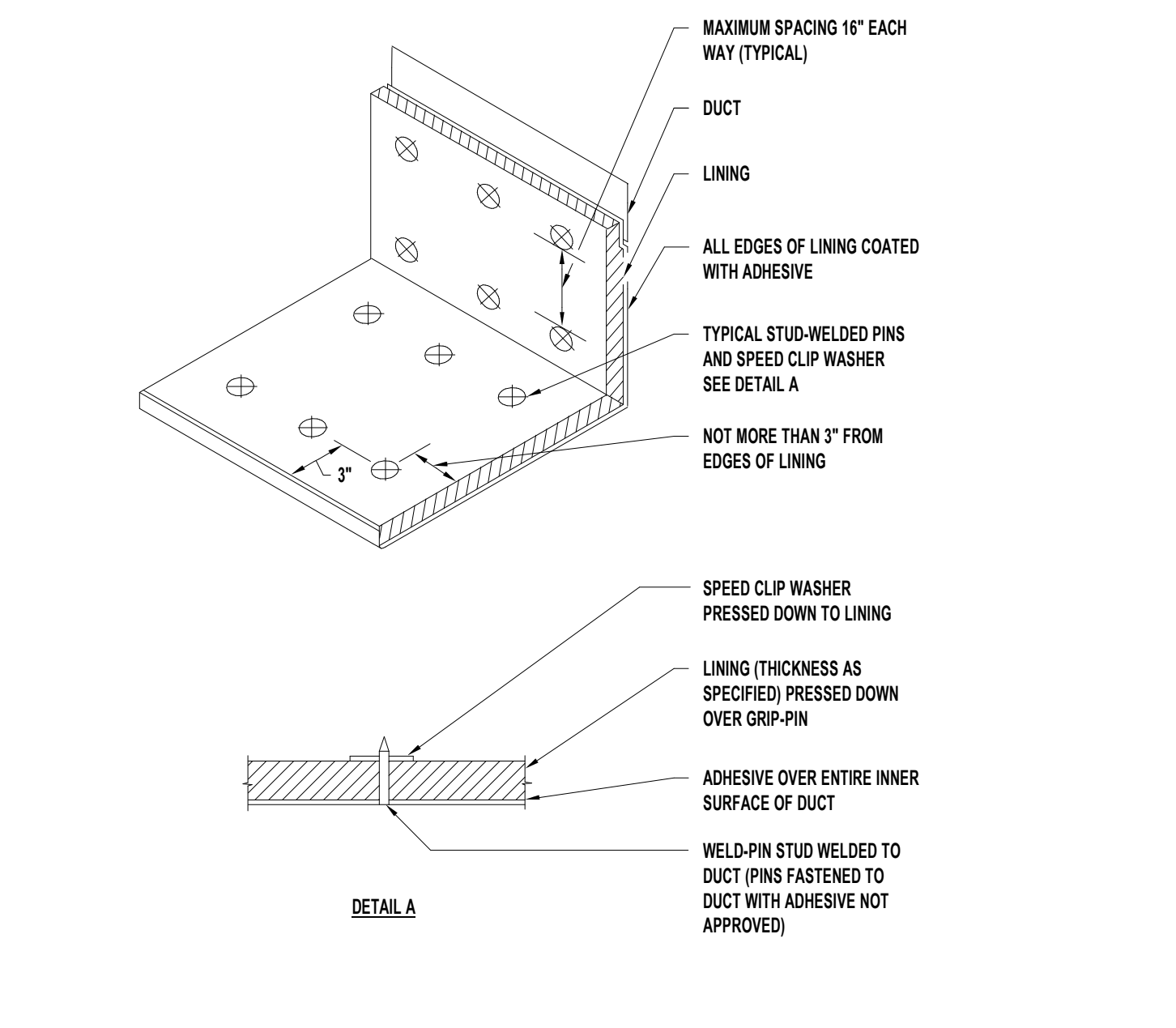
08 MS.02
RETURN/EX DUCT BELLMOUTH DETAIL
NOT TO SCALE



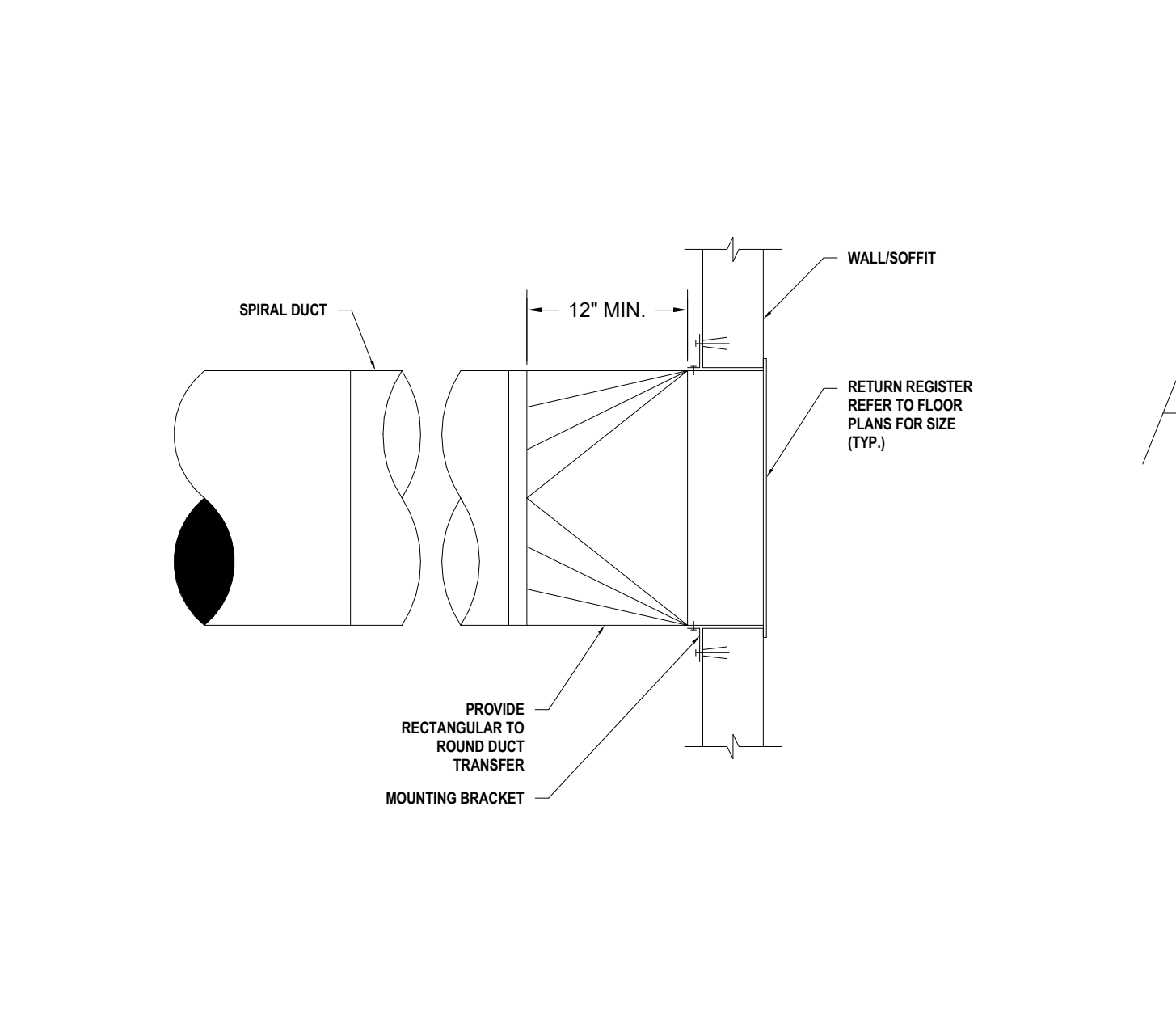
05 MS.02
TYPICAL TRANSFER BOOT U-SHAPED
NOT TO SCALE



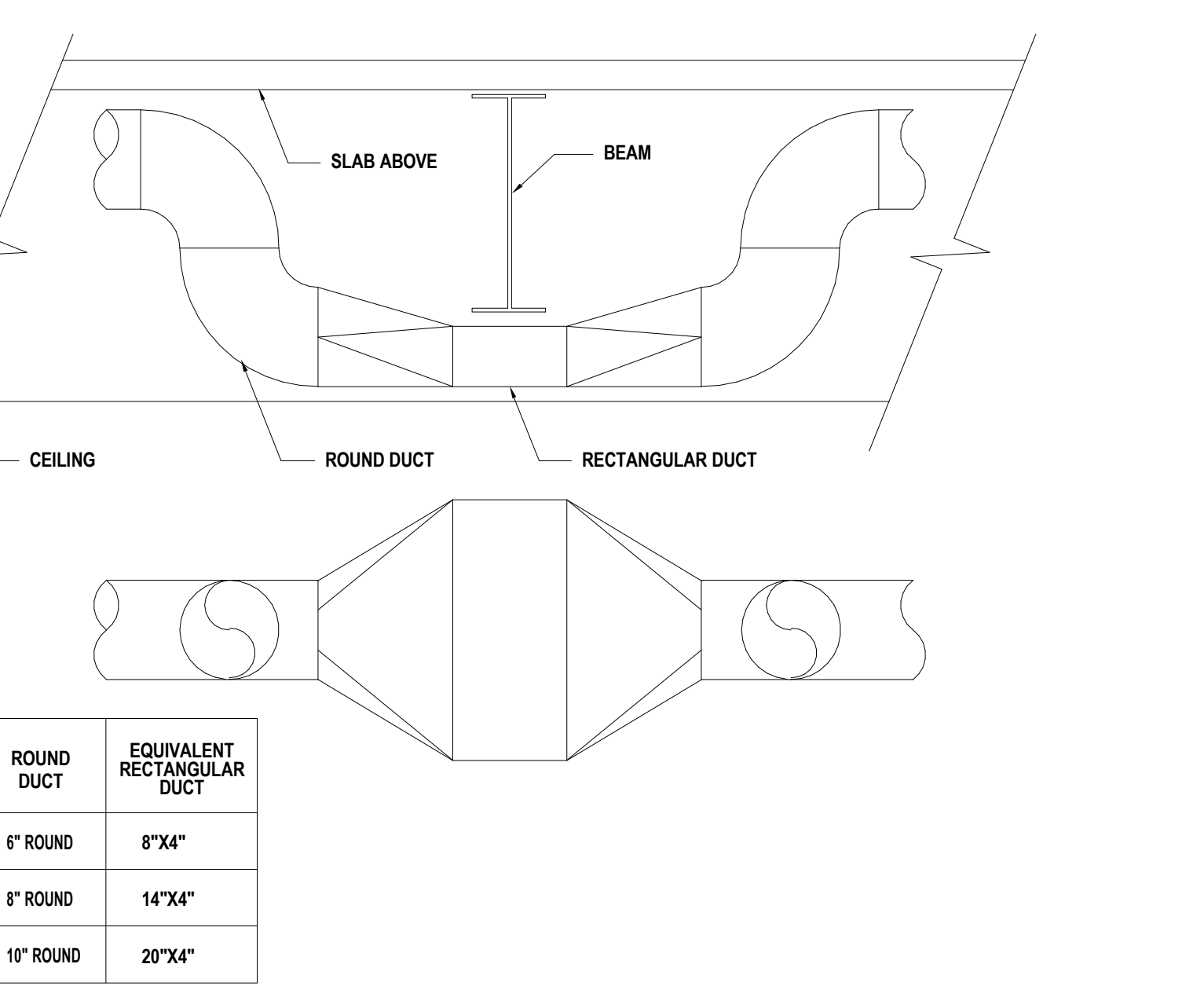
02 MS.02
SUPPLY DIFFUSER SIDE CONNECTION (W/ PLENUM BOX)
NOT TO SCALE



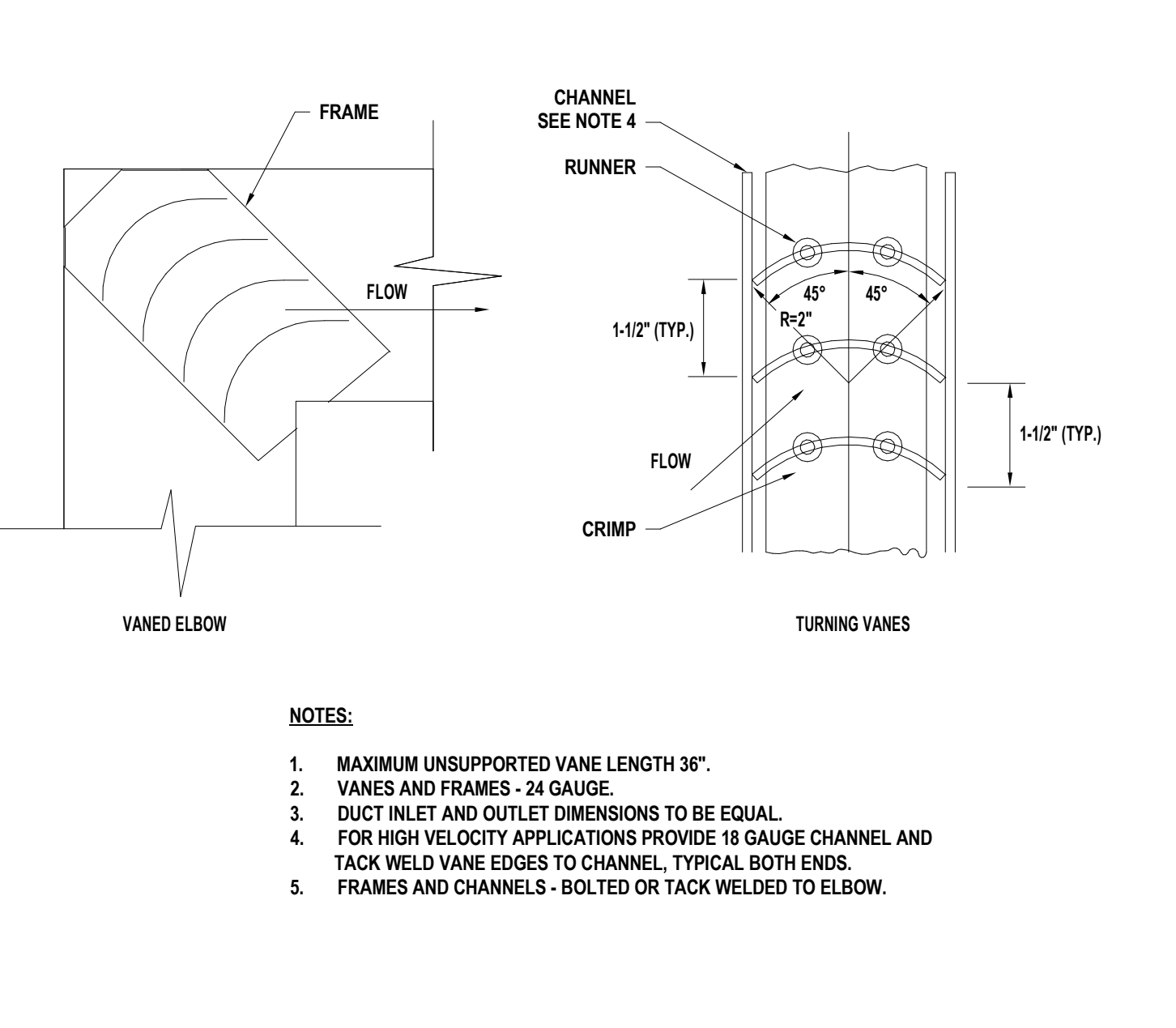
12 MS.02
ACOUSTICAL DUCT LINING INSTALLATION
NOT TO SCALE



09 MS.02
SIDEWALL GRILLE
NOT TO SCALE



06 MS.02
TYPICAL DUCT UNDER BEAM
NOT TO SCALE



03 MS.02
RECTANGULAR ELBOW W/ TURNING VANES
NOT TO SCALE

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt
DATE PLOTTED: 4/11/2023 2:00:32 PM

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EXP. 08/30/23
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REVISIONS

NO.	DATE	DESCRIPTION
1	2022-12-22	ISSUE FOR PLAN CHECK
2	2023-03-08	100% CD
3	2023-06-09	MIS COMMENT REVISION

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PROJECT OWNER & TITLE

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SHEET TITLE

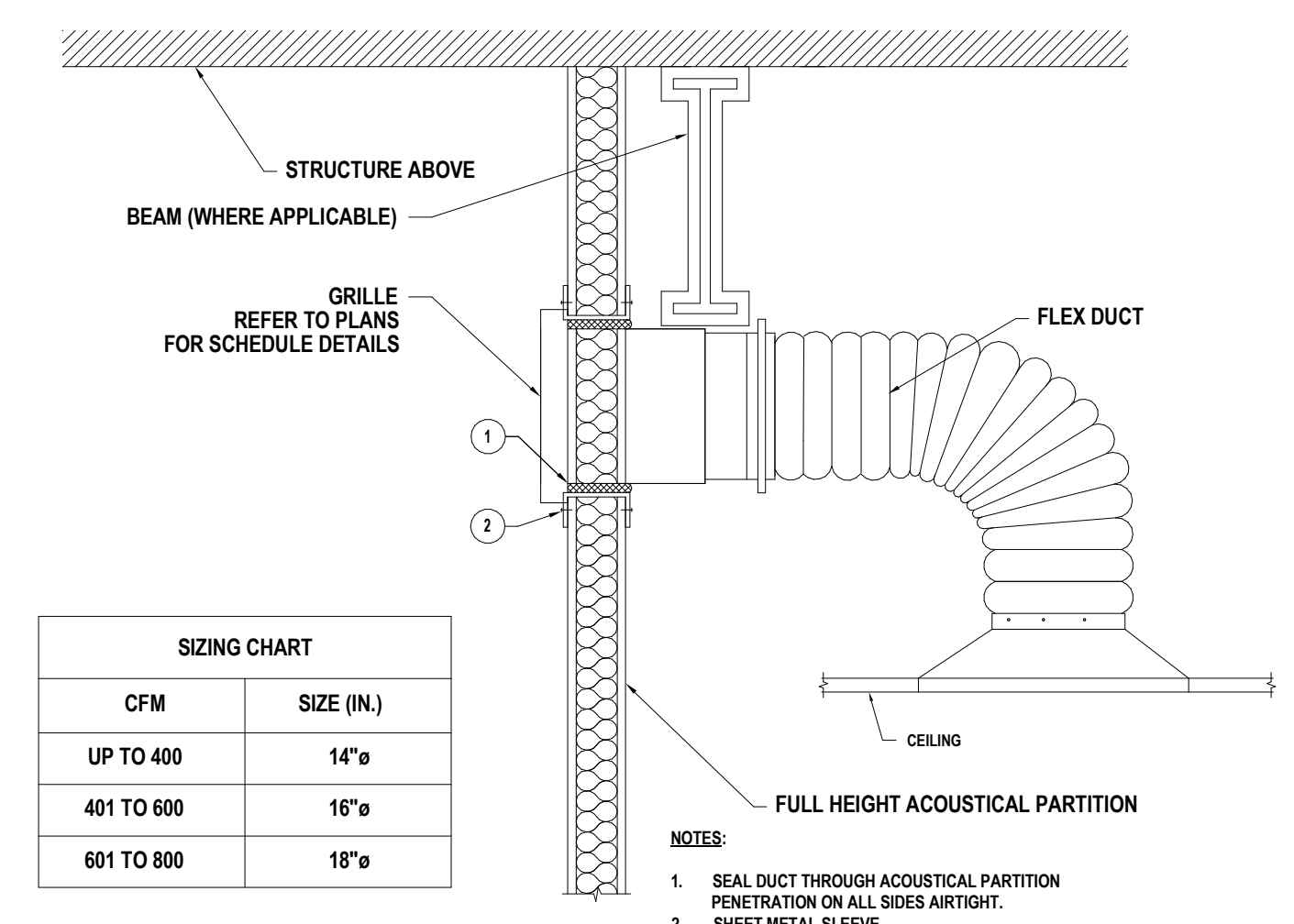
MECHANICAL DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

M-503

DATE: APRIL 11, 2023

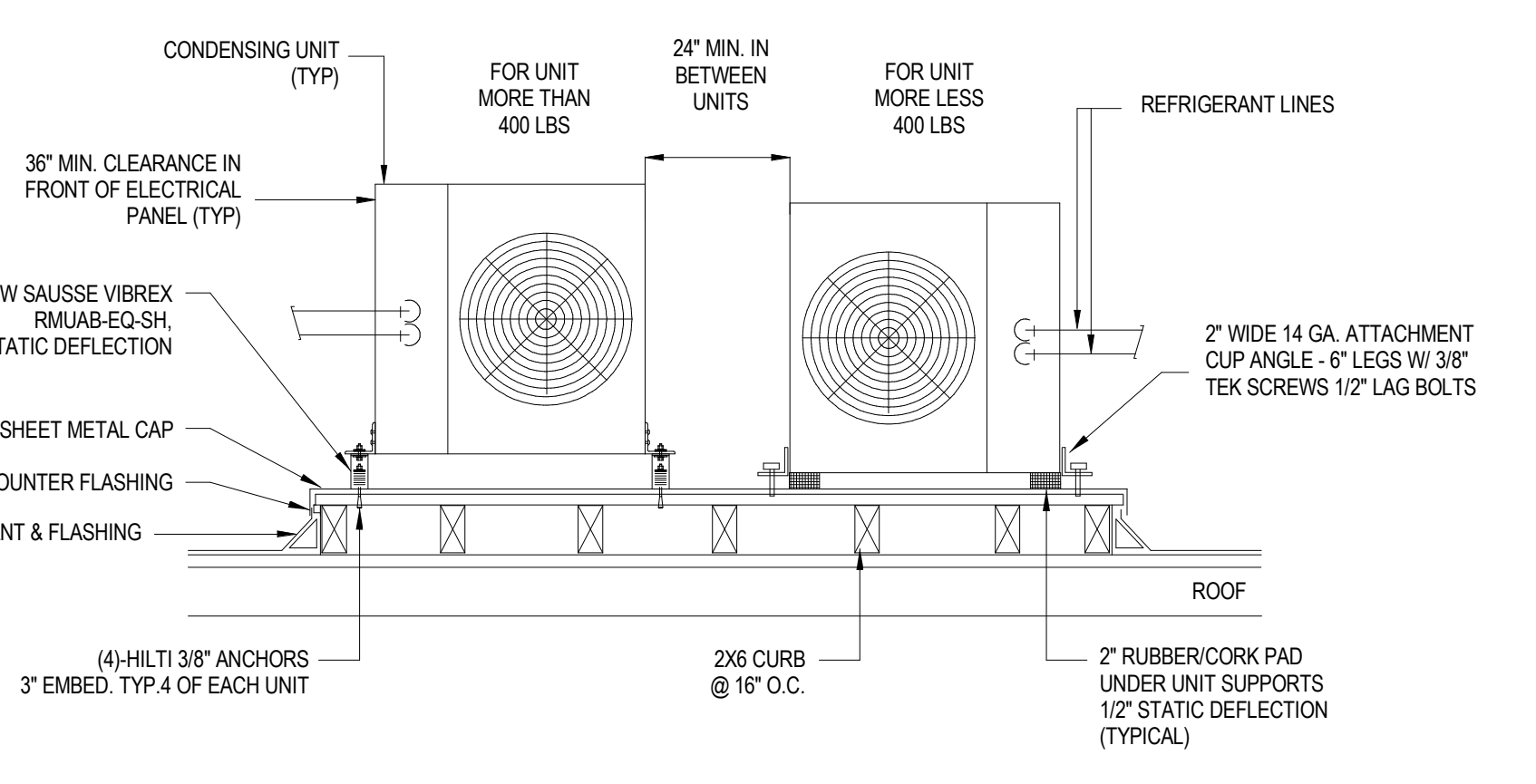


SIZING CHART

CFM	SIZE (IN.)
UP TO 400	14"ø
401 TO 600	16"ø
601 TO 800	18"ø

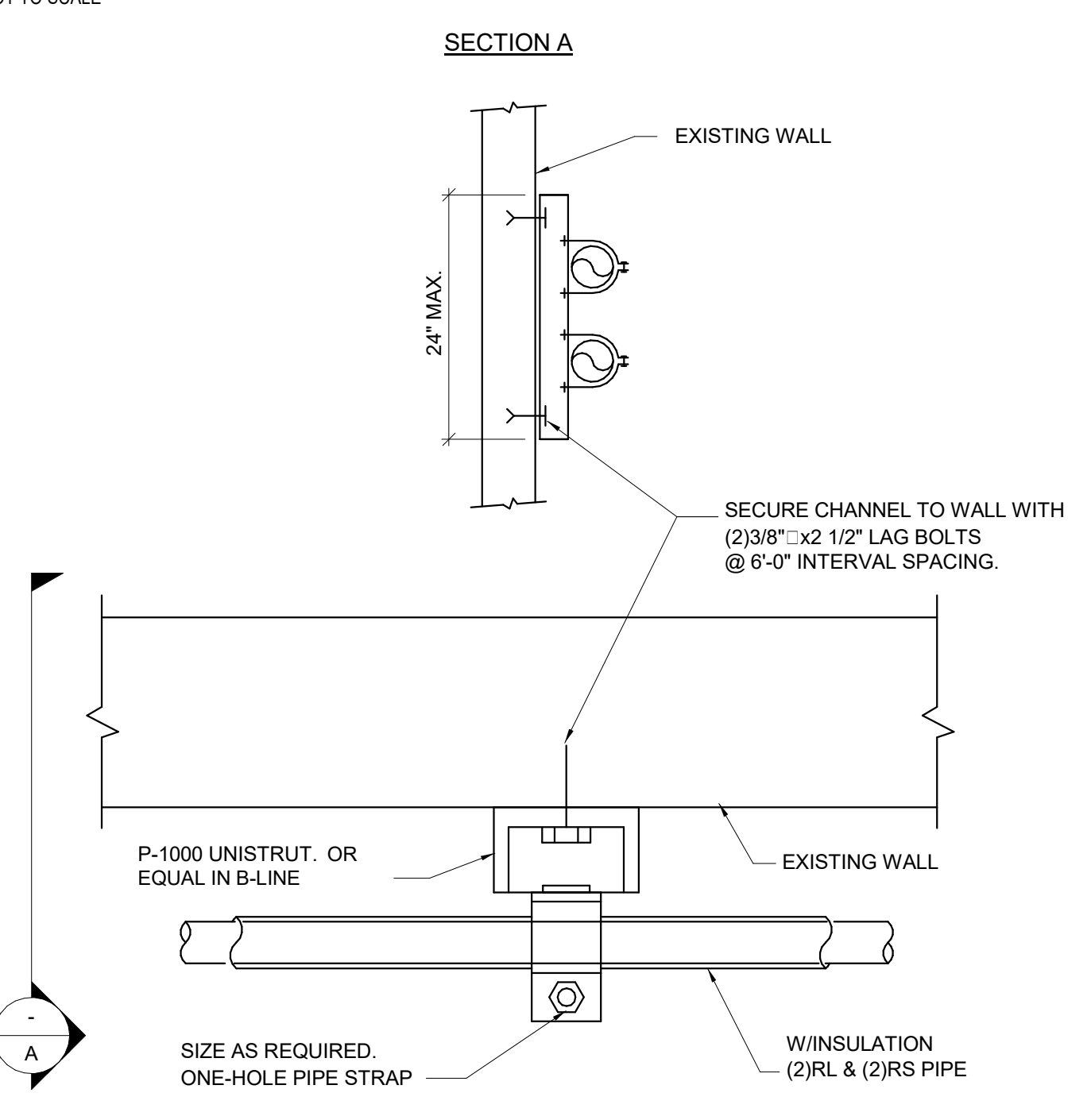
- NOTES:
- SEAL DUCT THROUGH ACOUSTICAL PARTITION PENETRATION ON ALL SIDES AIRTIGHT.
 - SHEET METAL SLEEVE.

01 M5.03 RA TRANSFER DETAIL - CEILING TO SIDEWALL GRILLE NOT TO SCALE



- NOTES:
- 24" MIN. UNIT CLEARANCE BETWEEN UNITS.
 - 36" MIN. SERVICE REQUIREMENT AT ELECTRICAL CONTROL PANEL.
 - PIPING SHALL BE PER MANUFACTURER.
 - AIRFLOW CLEARANCES PER MANUFACTURER.

04 M5.03 CONDENSING UNIT ROOF MOUNTING DETAIL NOT TO SCALE



05 M5.03 REFRIGERANT PIPE SUPPORT TO EXISTING WALL NOT TO SCALE



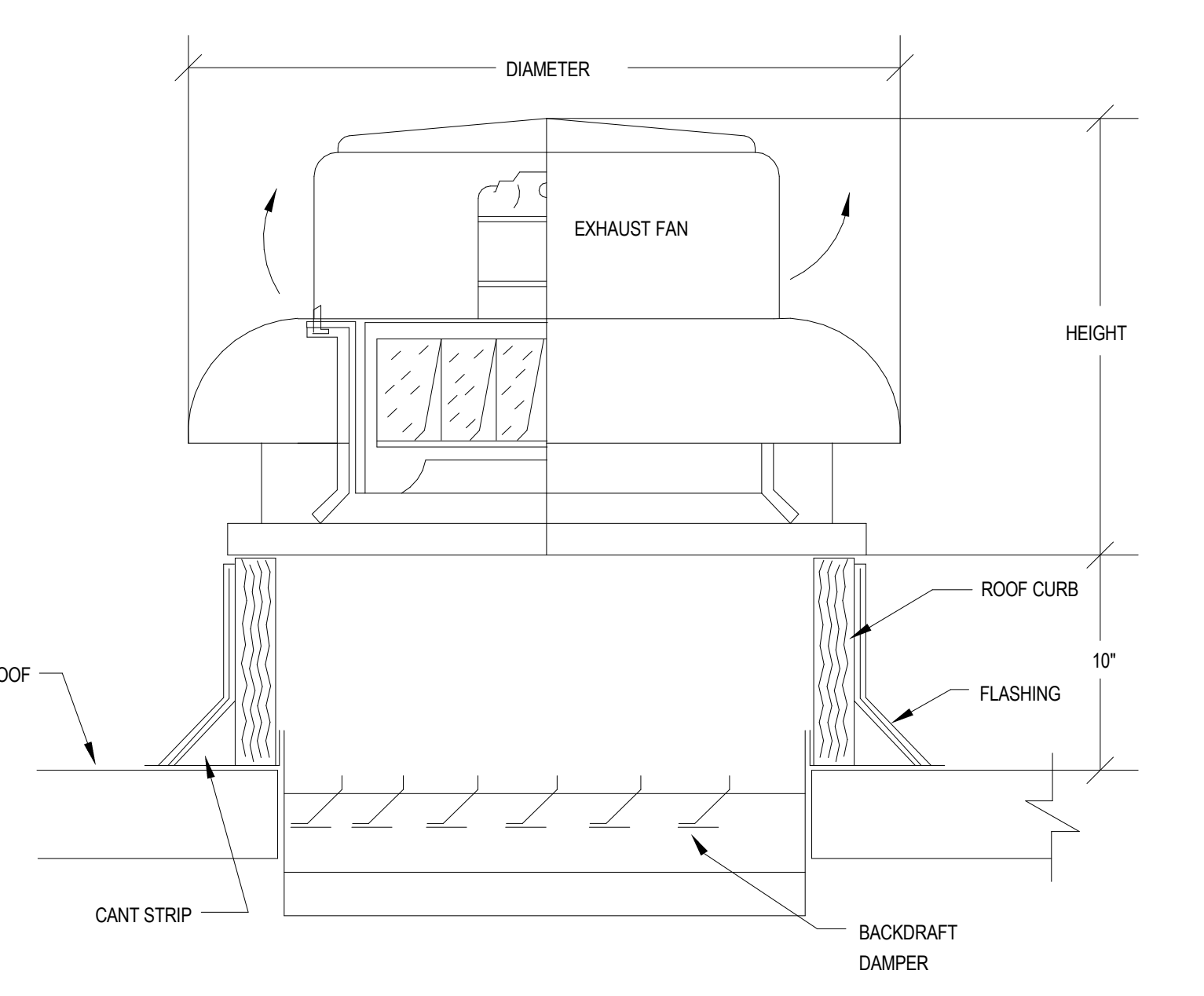
SIZING CHART

MARK	CFM	SIZE (IN.) *
TD-1	UP TO 400	14"ø OR 12x12
TD-2	401 TO 600	18"ø OR 18x12
TD-3	601 TO 800	18"ø OR 24x12

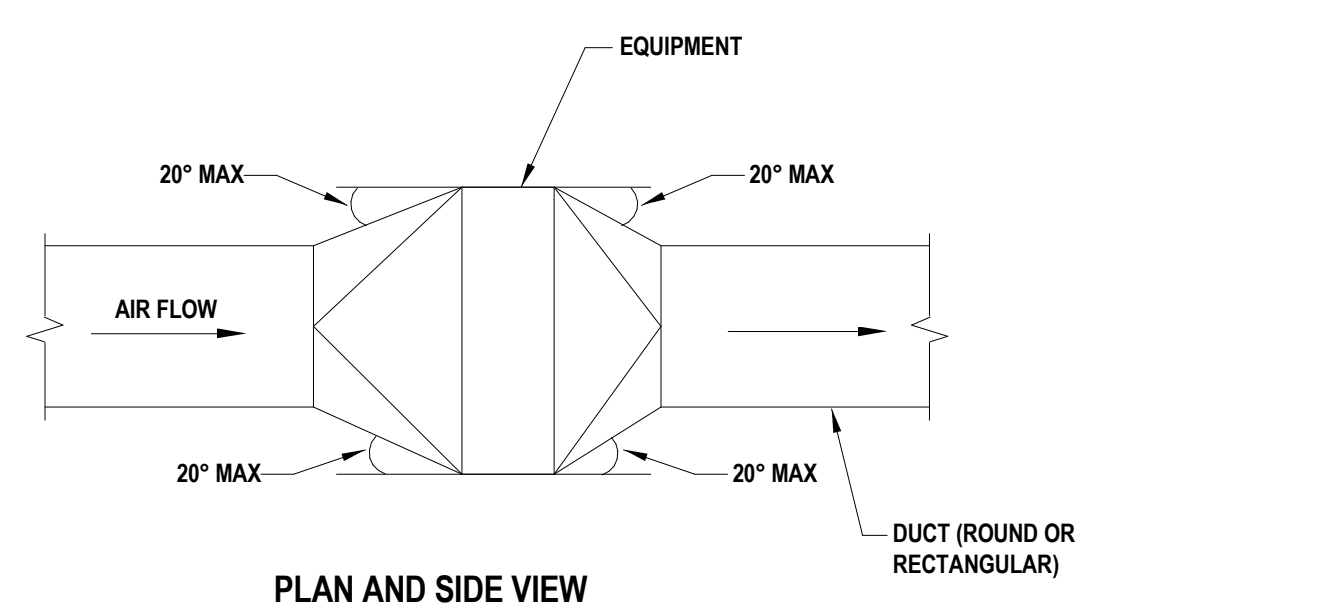
*UNLESS OTHERWISE NOTED

- NOTES:
- DUCT SIZE IS BASED UPON AMOUNT OF CFM; SIZED PER CHART.
 - TRANSFER DUCT TO BE CONSTRUCTED OF 20 GA. SHEET METAL (MIN.)

02 M5.03 Z-TYPE TRANSFER AIR DUCT DETAIL NOT TO SCALE

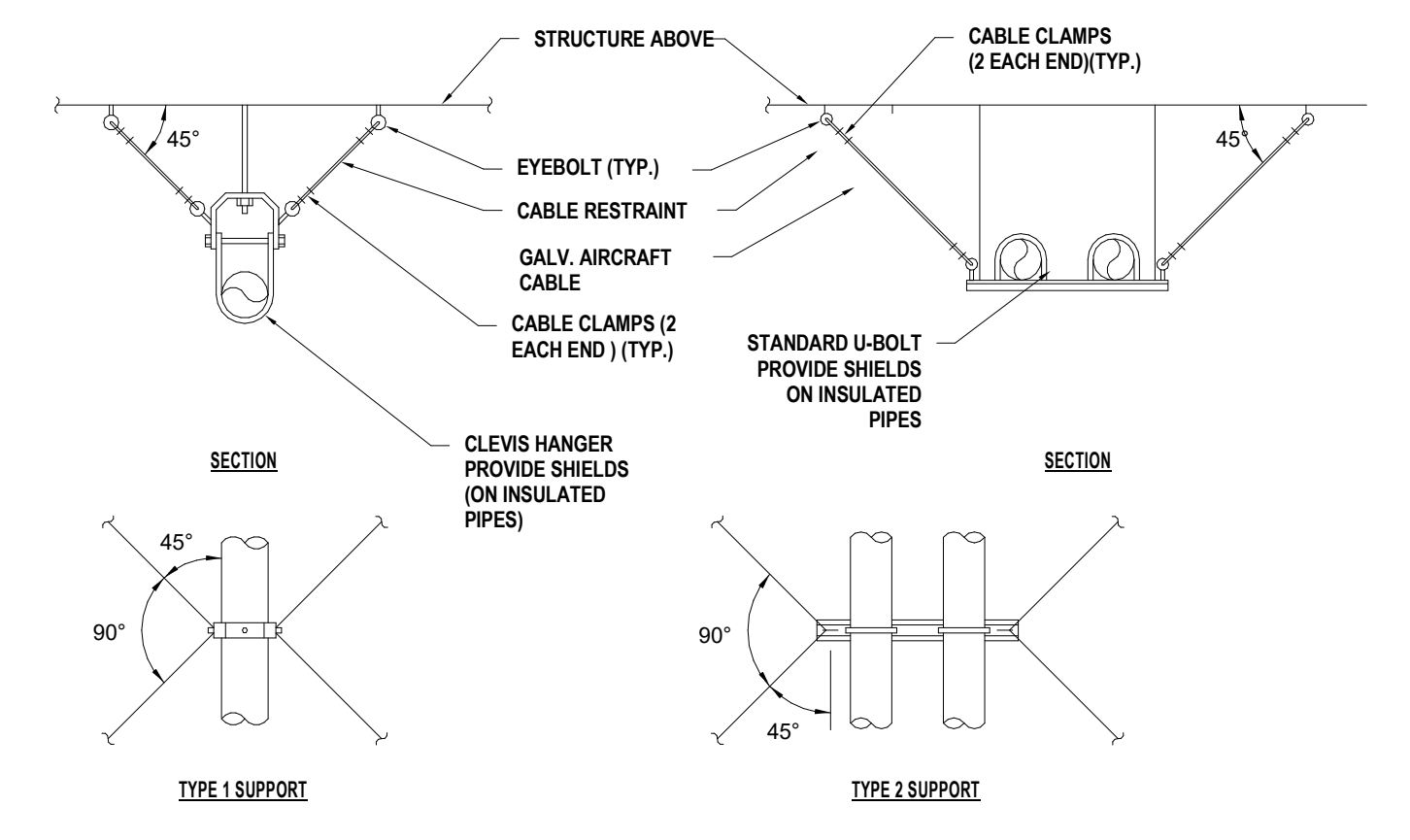


03 M5.03 ROOF-MOUNTED EXHAUST FAN DETAIL NOT TO SCALE



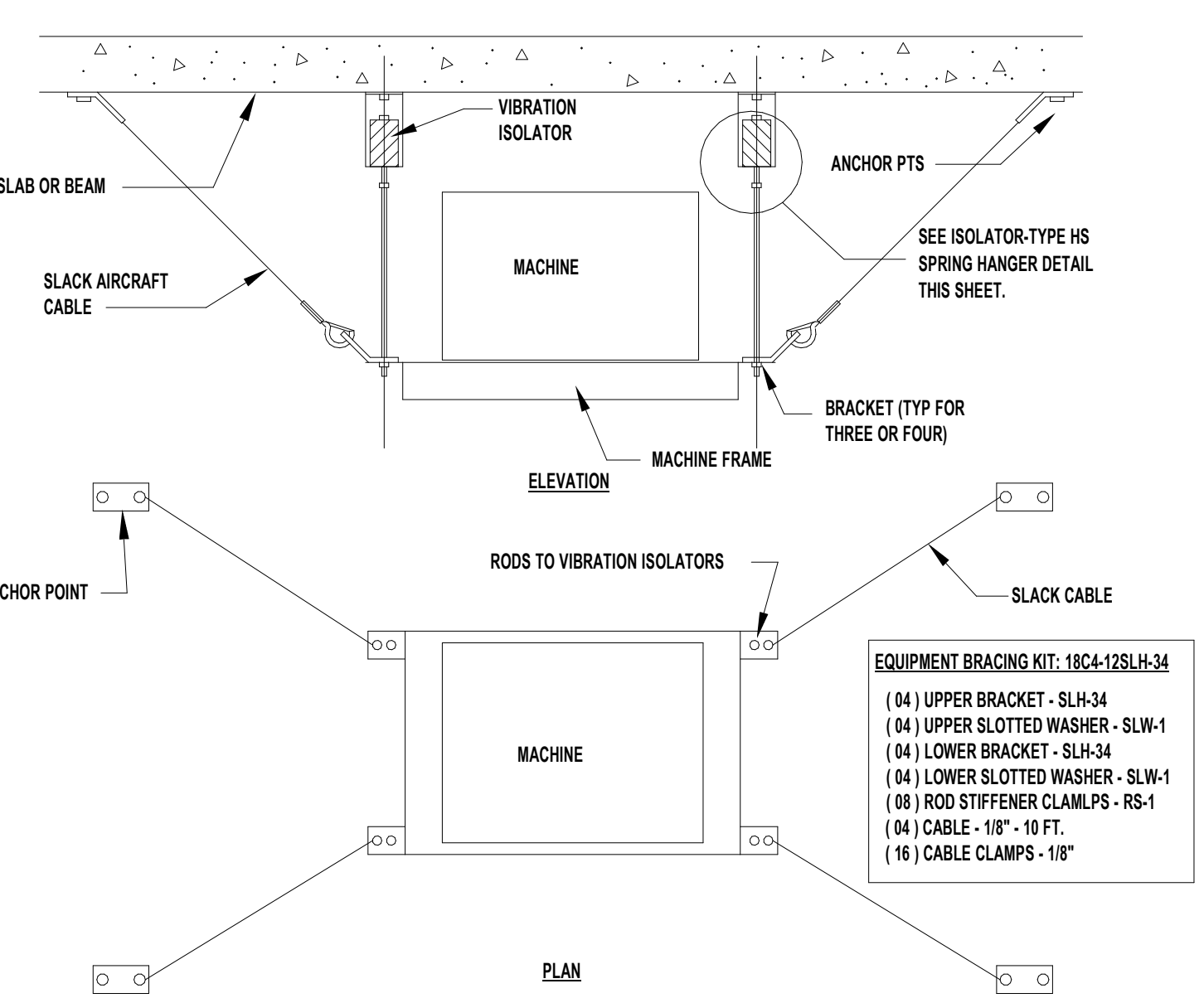
- NOTES:
- UNLESS OTHERWISE NOTED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

07 M5.03 DUCT TRANSITION W/ EQUIPMENT IN DUCT NOT TO SCALE

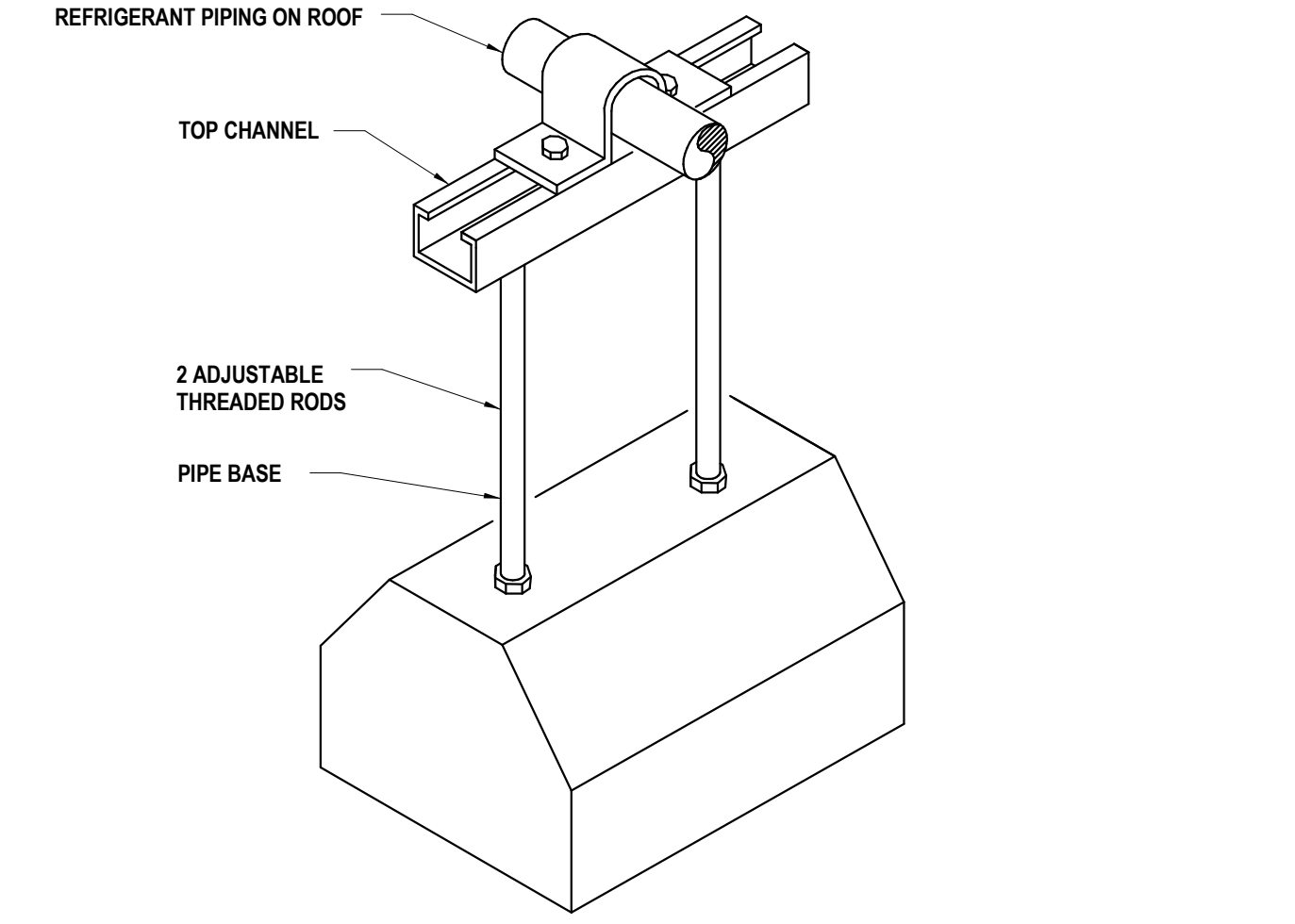


- NOTES:
- CABLE SIZE IS DETERMINED ASSUMING TOTAL LOAD ON ONE CABLE.
 - ANCHOR BOLTS ARE KWIK-BOLT CONCRETE INSERTS (OR EQUAL).
 - BOLT SIZE IS DETERMINED ASSUMING TOTAL LOAD ON ONE BOLT OR BOLT GROUP.
 - SIZES SHOWN ARE MINIMUM.
 - CABLE TO BE SLACK & ALLOW 1/4" MOVEMENT BEFORE BECOMING TAUT.
 - TRAPEZE CHANNELS REQUIRE WEB STIFFENERS 1/4" MINIMUM.

08 M5.03 PIPE SUPPORT DETAIL W/O ISOLATOR NOT TO SCALE

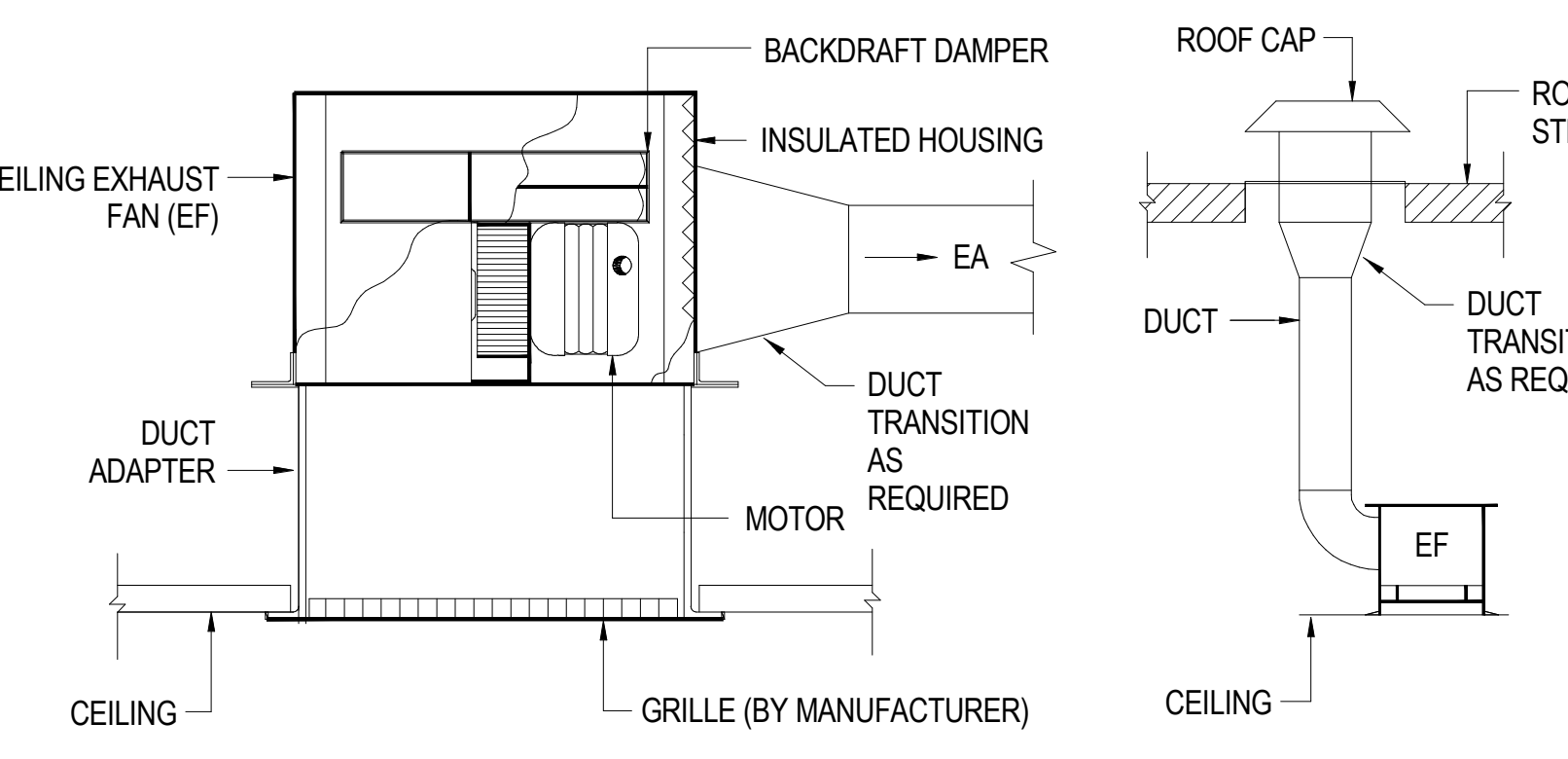


09 M5.03 ALL DIRECTIONAL RESTRAINT DETAIL (SUSPENDED EQUIP.) NOT TO SCALE



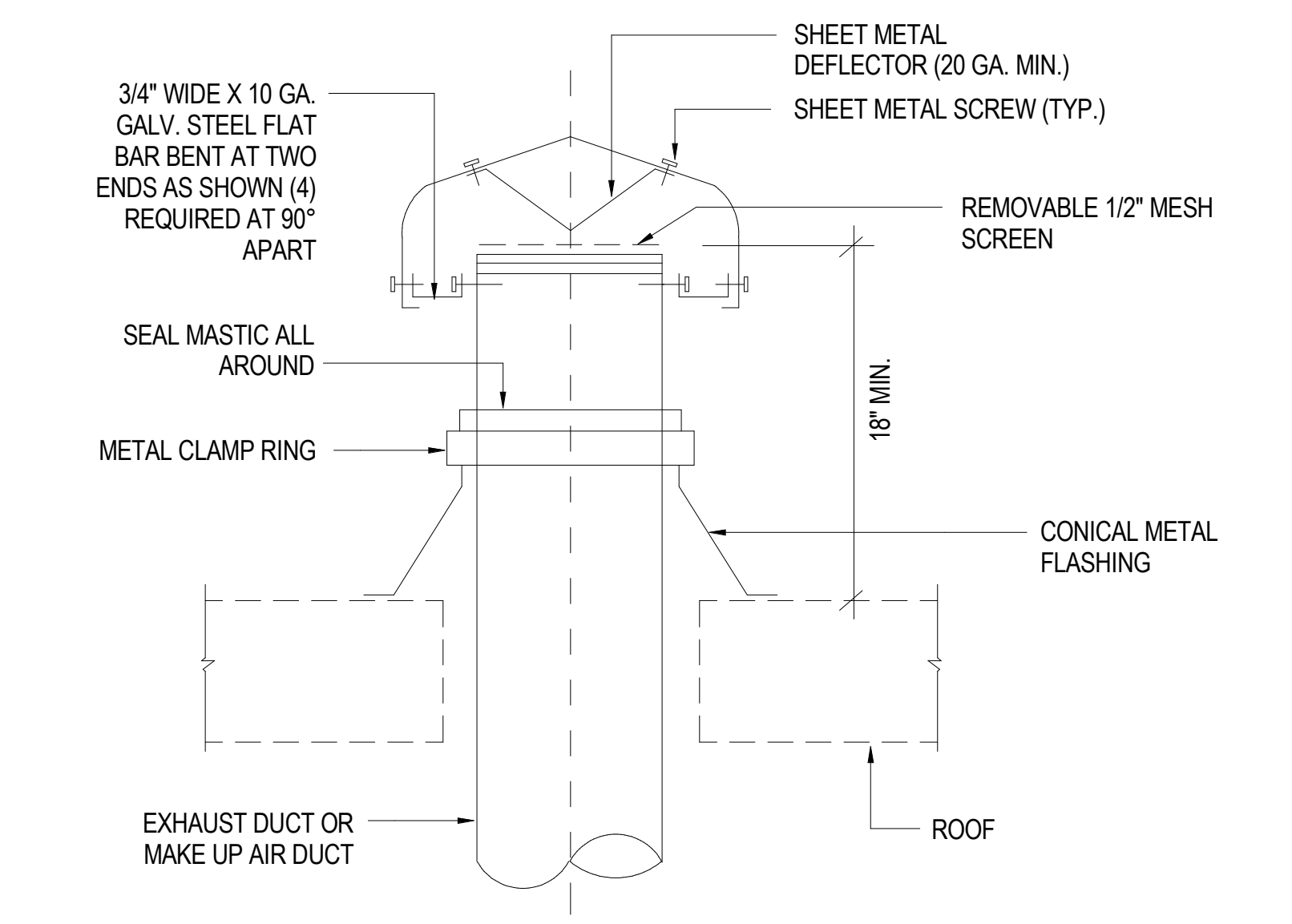
- NOTE:
- ALL PIPING ON ROOF SHALL BE SUPPORTED BY COOPER B-LINE DURA-BLOK ROOFTOP SUPPORT MODEL NO. DBE16-16 WITH CLDP10 LOAD DISTRIBUTION PLATE.
 - DIMENSIONS: ADJUSTABLE HEIGHT x WIDTH x LENGTH - 5 1/2 - 16" x 6" x 9.6"
 - TOTAL WEIGHT: 5.78 LBS. TOTAL LOAD RATED FOR 200 LBS.
 - CONSTRUCTION: BASE WITH (2) 1/2" ELECTRO ZINC ALL THREADED ROD RISERS TOP CHANNEL IS 1" TALL. BASE IS CONSTRUCTED OF 100% RECYCLED RUBBER, UV RESISTANT.

06 M5.03 REFRIGERANT PIPE SUPPORT ON ROOF NOT TO SCALE

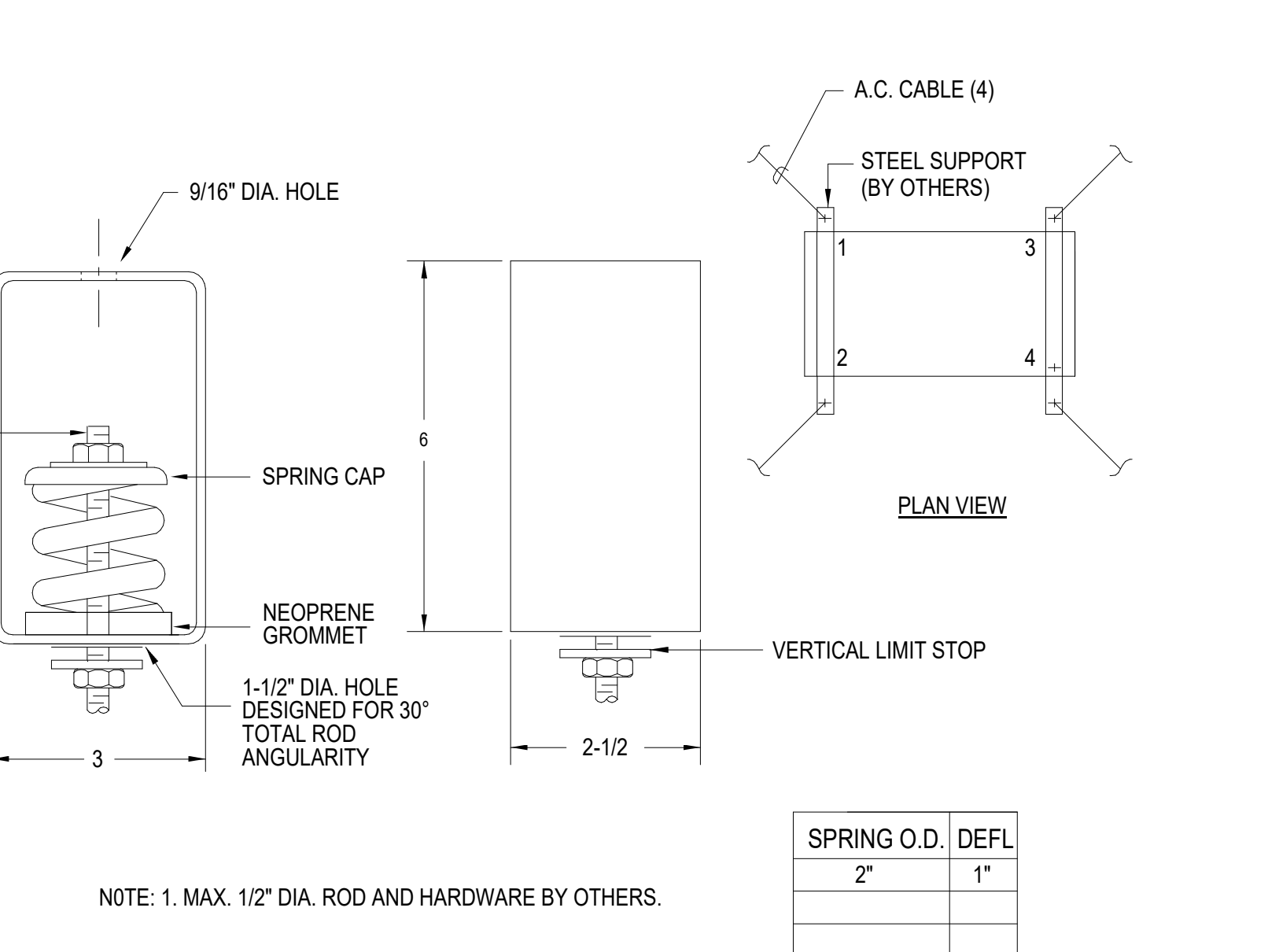


- INSTALLATION NOTES:
- WALL PENETRATIONS SHALL BE PROVIDED WITH WEATHER-TIGHT SEAL; COORDINATE WITH GENERAL CONSTRUCTION.
 - INSTALL MINIMUM 16 GAUGE SHEET STEEL SUPPORTS TO RIGIDLY ATTACH FAN HOUSING TO STRUCTURE; FIELD VERIFY EXACT REQUIREMENTS. ENSURE ADEQUATE VIBRATION ISOLATION.
 - INSTALLATION SHALL BE NEAT AND COMPLETED TIMELY AND IN SUCH A MANNER TO ALLOW CC TO FINISH SURFACES UNIFORMLY.
 - ALL ELECTRICAL WIRING AND CONNECTIONS SHALL BE BY ELECTRICAL CONTRACTOR.

10 M5.03 CEILING MOUNTED FAN DETAIL NOT TO SCALE



11 M5.03 ROOF CAP DETAIL NOT TO SCALE



12 M5.03 ISOLATOR SPRING HANGER DETAIL NOT TO SCALE

DATE PLOTTED: 4/11/2023 2:00:32 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt

CONSTRUCTION DOCUMENTS

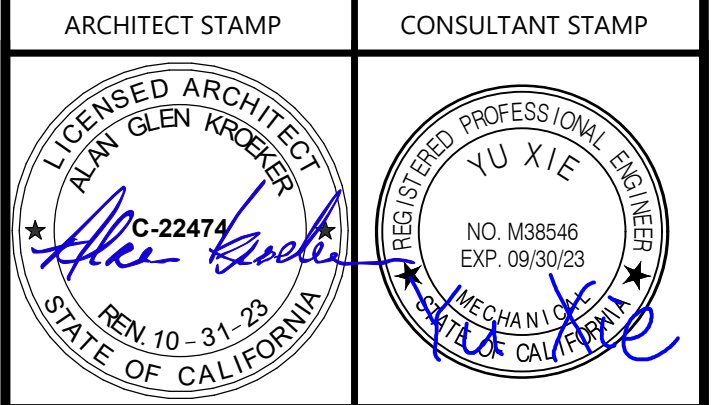


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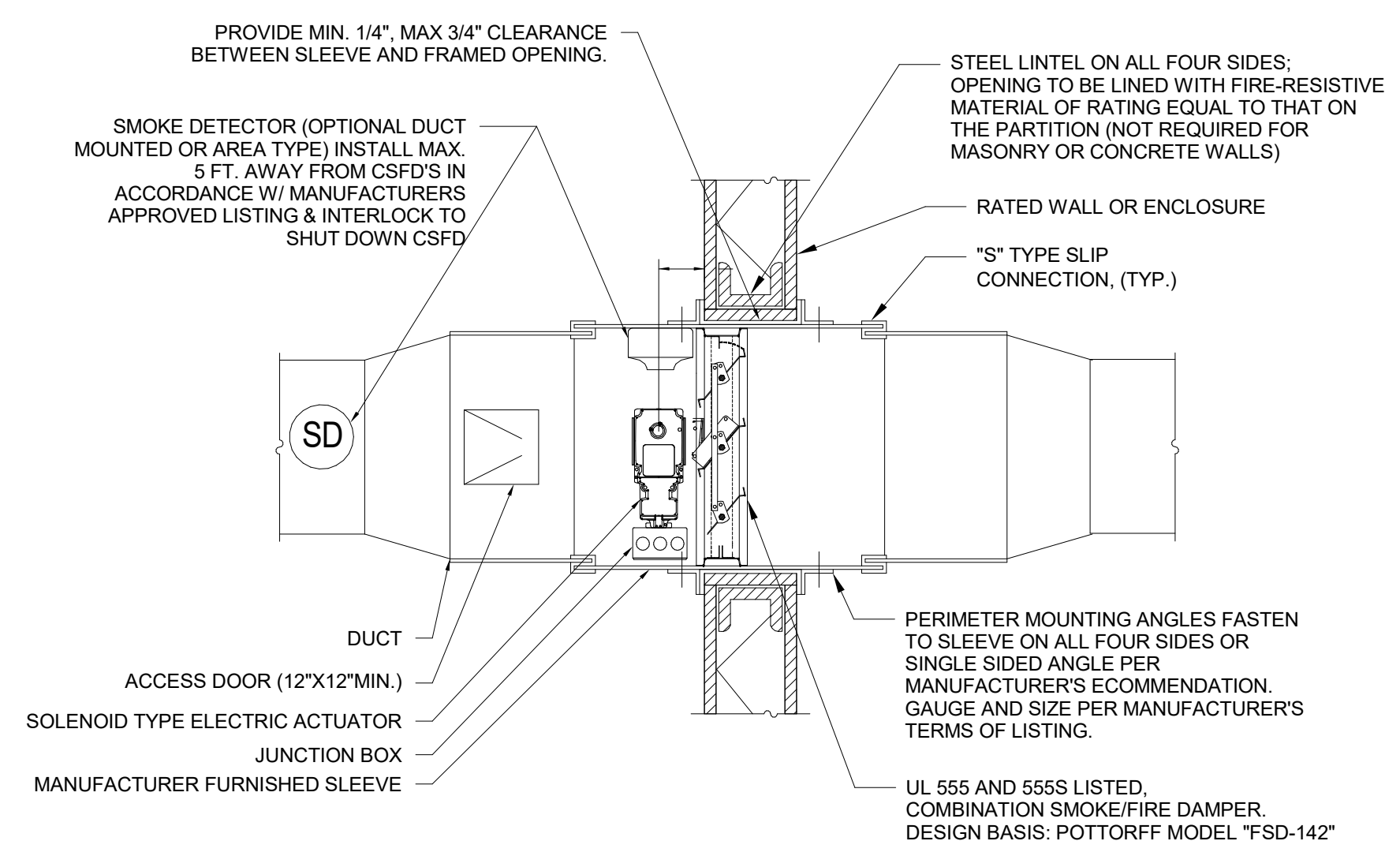
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MECHANICAL DETAILS

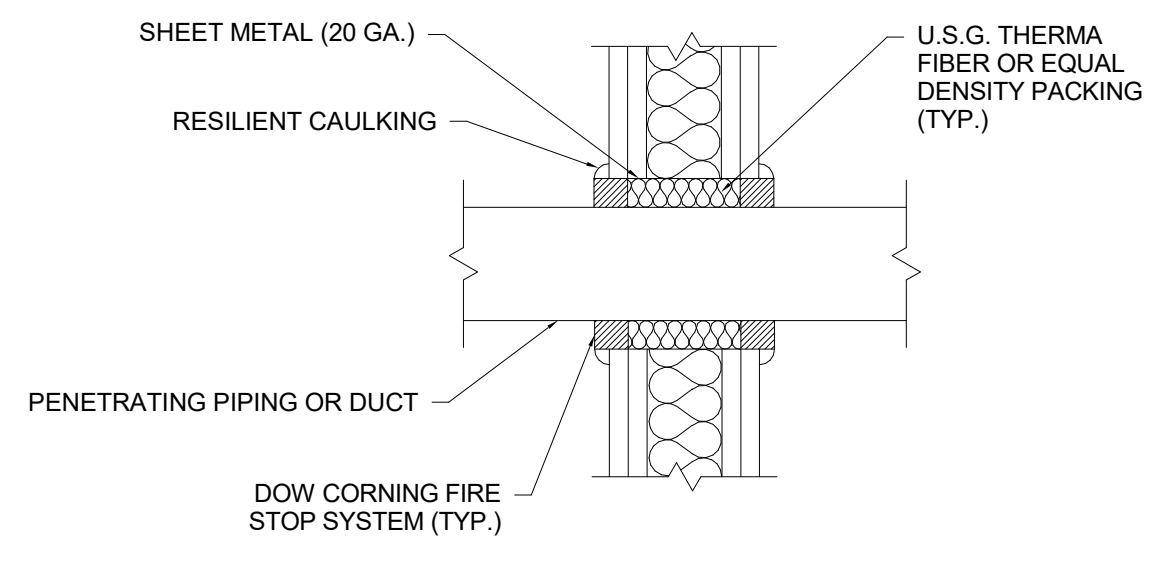
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
M-504
 DATE: APRIL 11, 2023



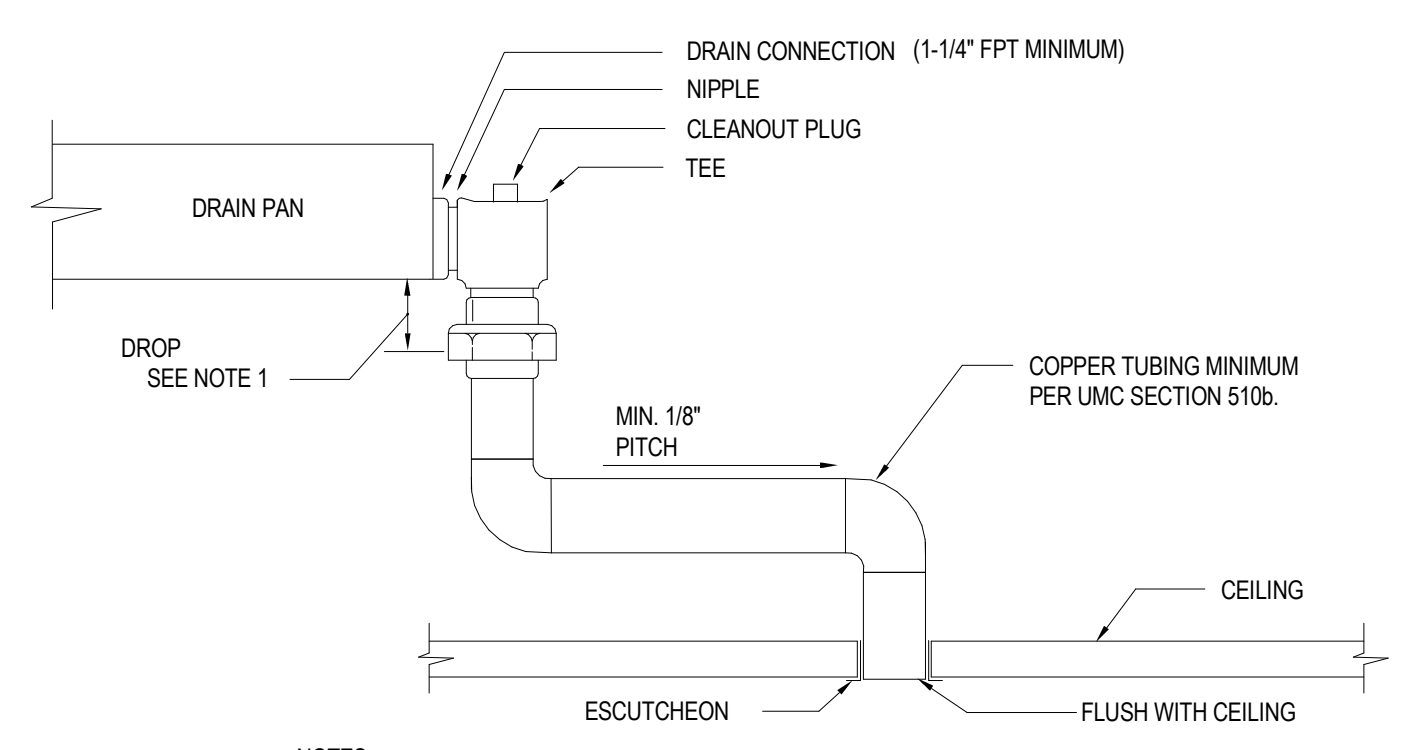
- NOTES:
- DAMPER DETAILS FOR REFERENCE ONLY. REFER TO MANUFACTURER INSTALLATION MANUAL.
 - PROVIDE DUAL POSITION SWITCH FOR REMOTE ANNUNCIATION AND STATUS.
 - COMBINATION SMOKE/FIRE DAMPERS SHALL BE STATE FIRE MARSHALL (CSFM) APPROVED (LISTING NO. 3225-0368; 110 & 3230-0368; 111). INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
 - LABEL ACCESS DOOR "SMOKE/FIRE DAMPER".
 - COORDINATE POWER REQUIREMENT AND LOCAL DISCONNECT SWITCH LOCATION WITH ELECTRICAL SECTIONS.
 - PROVIDE COMBINATION SMOKE/FIRE DAMPER 4 INCHES LARGER IN LENGTH AND IN WIDTH THAN THE CONNECTING DUCT (UP TO 24"x24"); NO INCREASE REQUIRED ABOVE 24"x24". PROVIDE CONCENTRIC DUCT TRANSITIONS AS REQUIRED.

01 M5.04 NOT TO SCALE



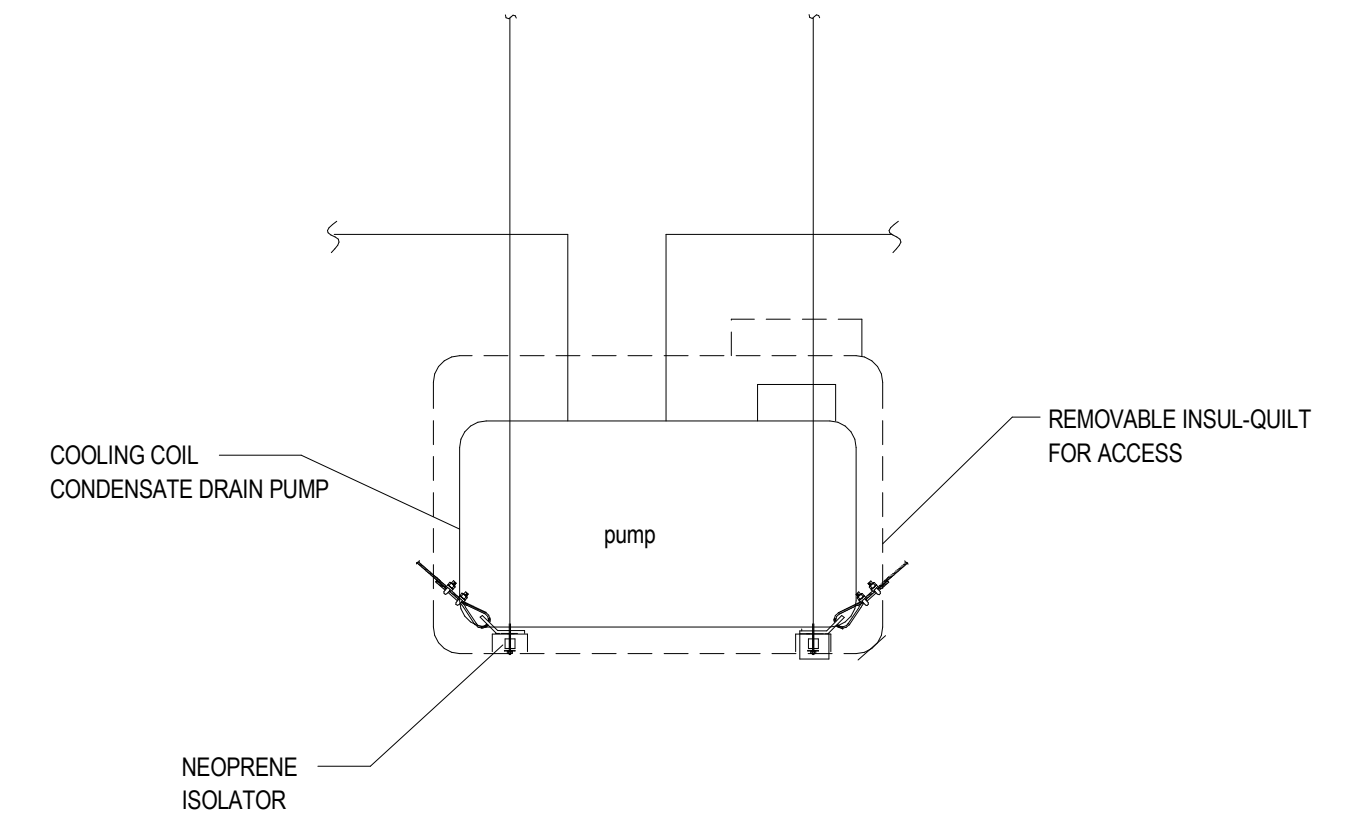
- NOTES:
- TYPICAL FOR ALL DUCTS & PIPING PENETRATING FAN ROOM, MECHANICAL ROOM AND SHAFT WALLS.

04 M5.04 NOT TO SCALE

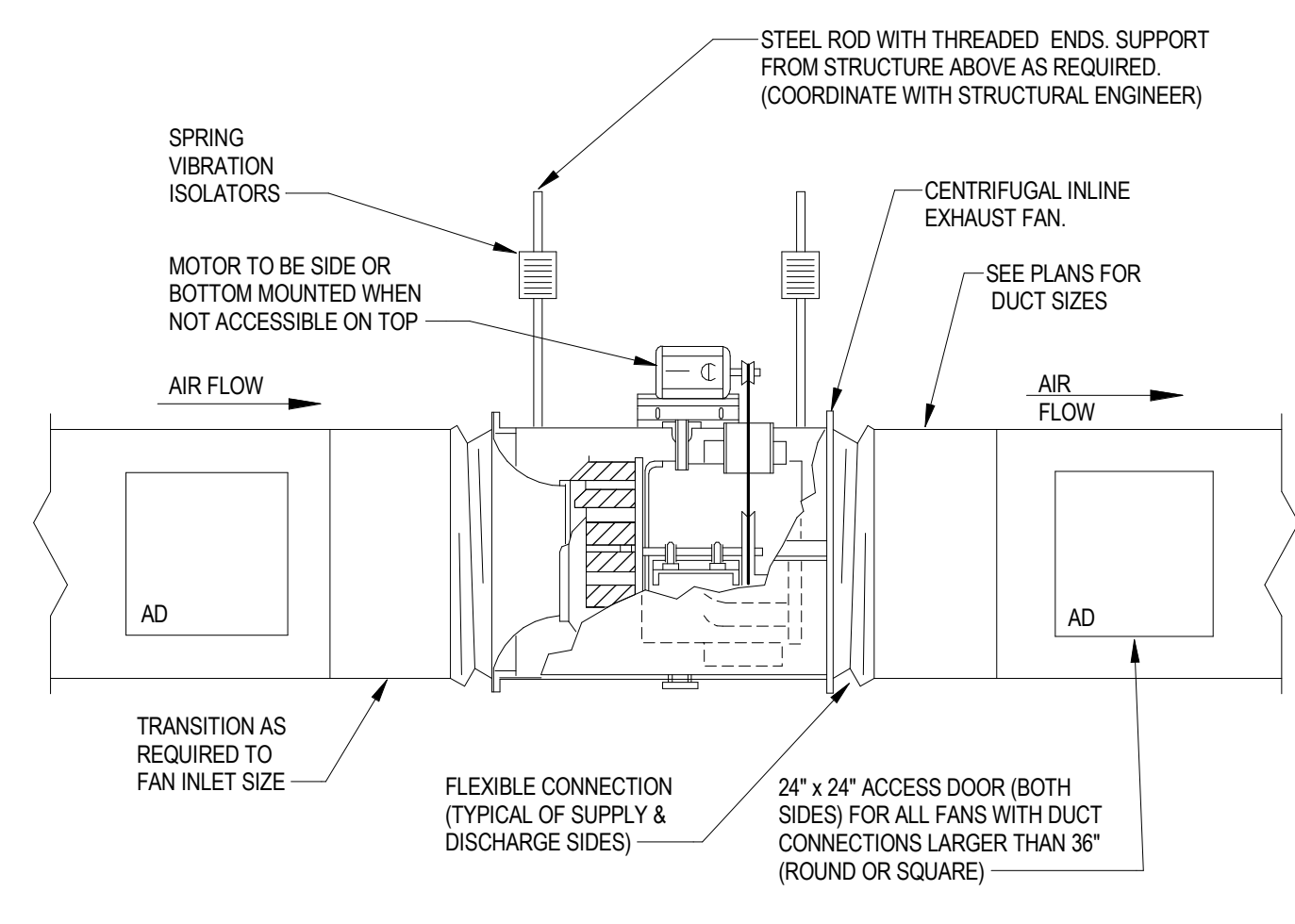


- NOTES:
- 1" MIN. DROP REQUIRED. USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM.
 - ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED CONSPICUOUS CEILING LOCATION.
 - SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
 - CONTRACTOR SHALL NOT TERMINATE SECONDARY OVERFLOW CONDENSATE DRAIN ABOVE ANY WORKSTATIONS OR ELECTRICAL EQUIPMENTS.

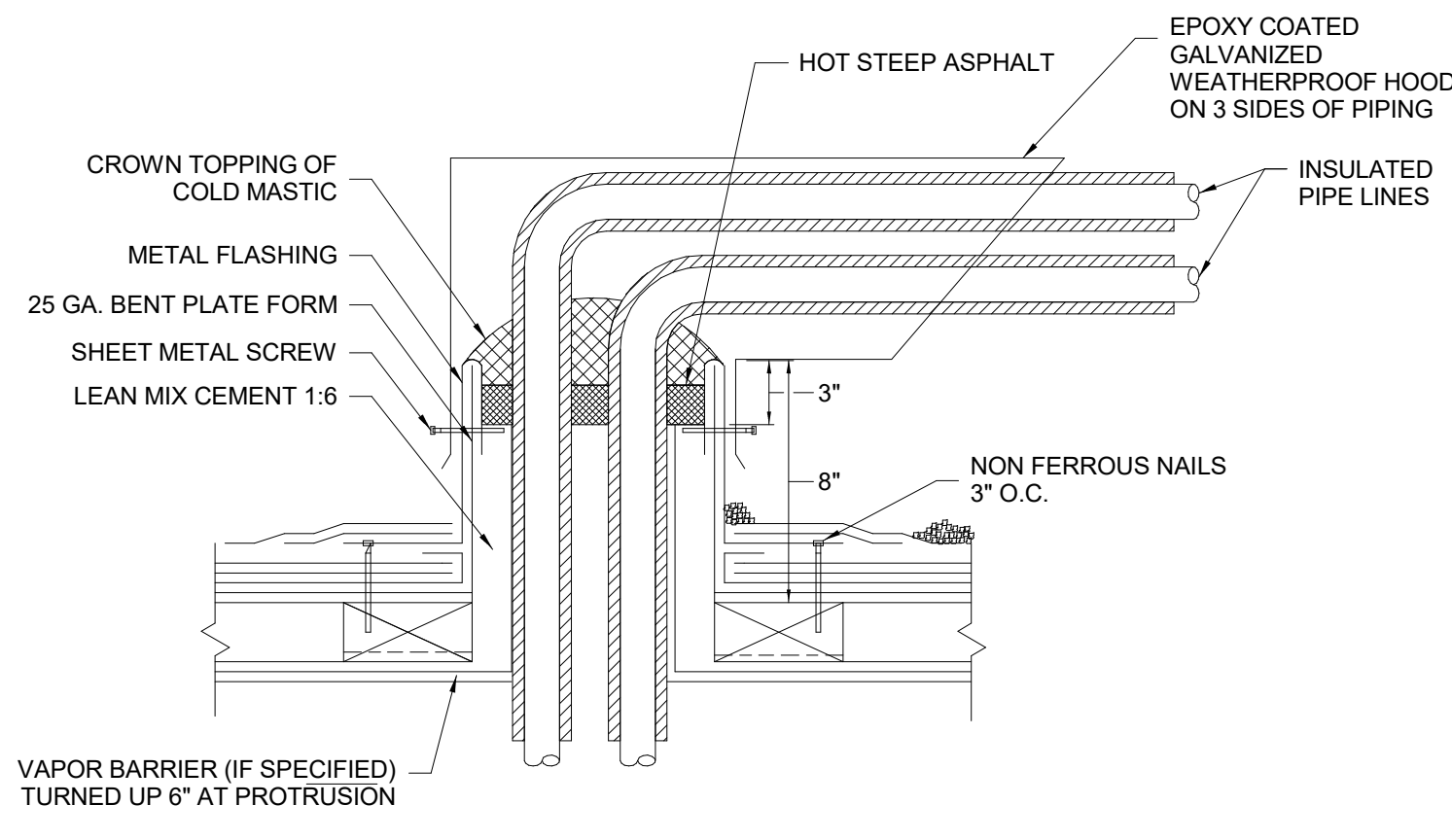
07 M5.04 NOT TO SCALE



10 M5.04 NOT TO SCALE

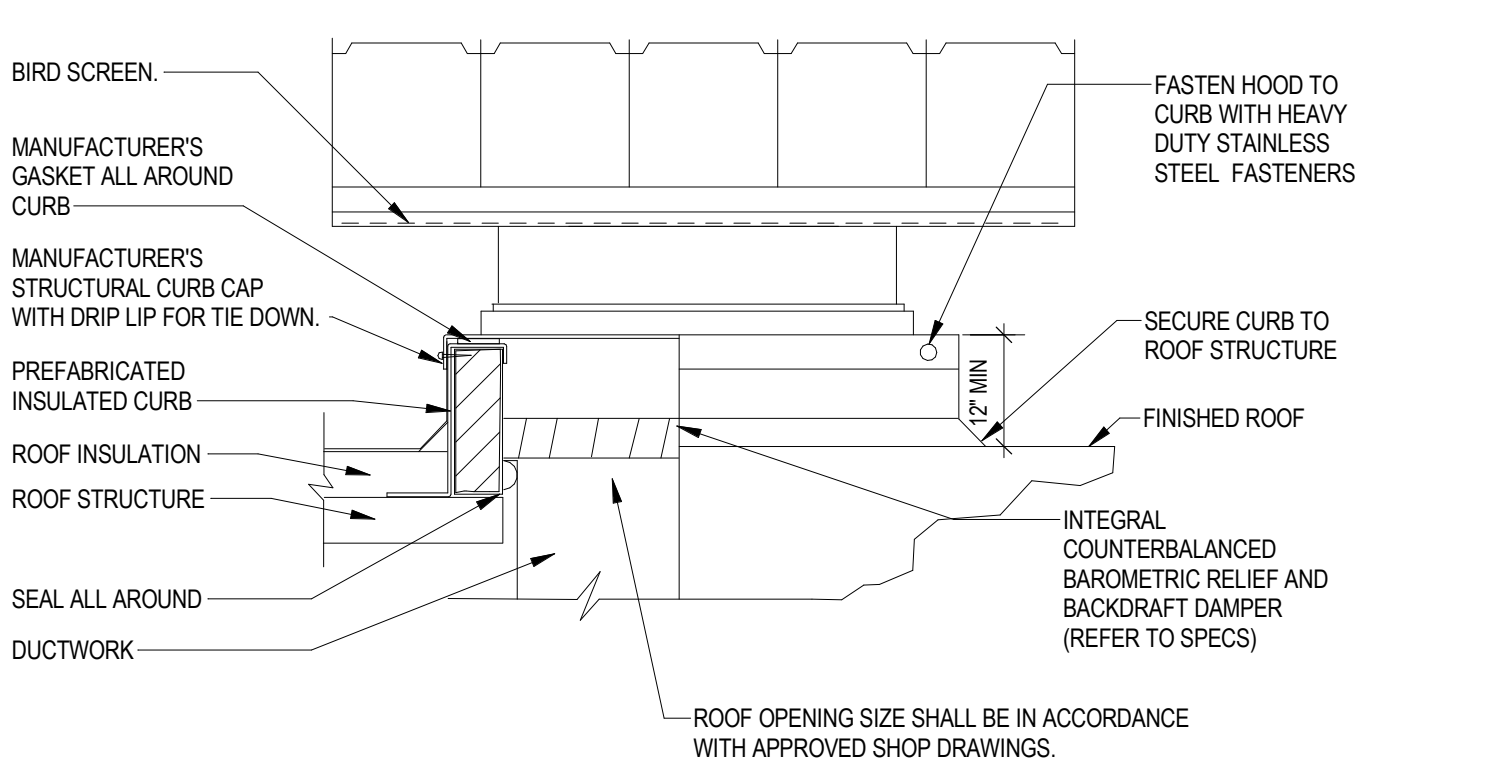


05 M5.04 NOT TO SCALE



- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL ROOF CONSTRUCTION AND FLASHING DETAILS.

08 M5.04 NOT TO SCALE



- NOTES:
- REFER TO ROOF CURB DETAIL FOR ATTACHMENT OF CURB TO STRUCTURE.
 - PROVIDE CURB AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
 - PROVIDE HOOD FASTENERS TO CURB 4" FROM EACH CORNER AND AT CENTER POINTS WITH ADDITIONAL CONNECTIONS TO MEET PROJECT SPECIFIC SEISMIC AND WIND LOADS.

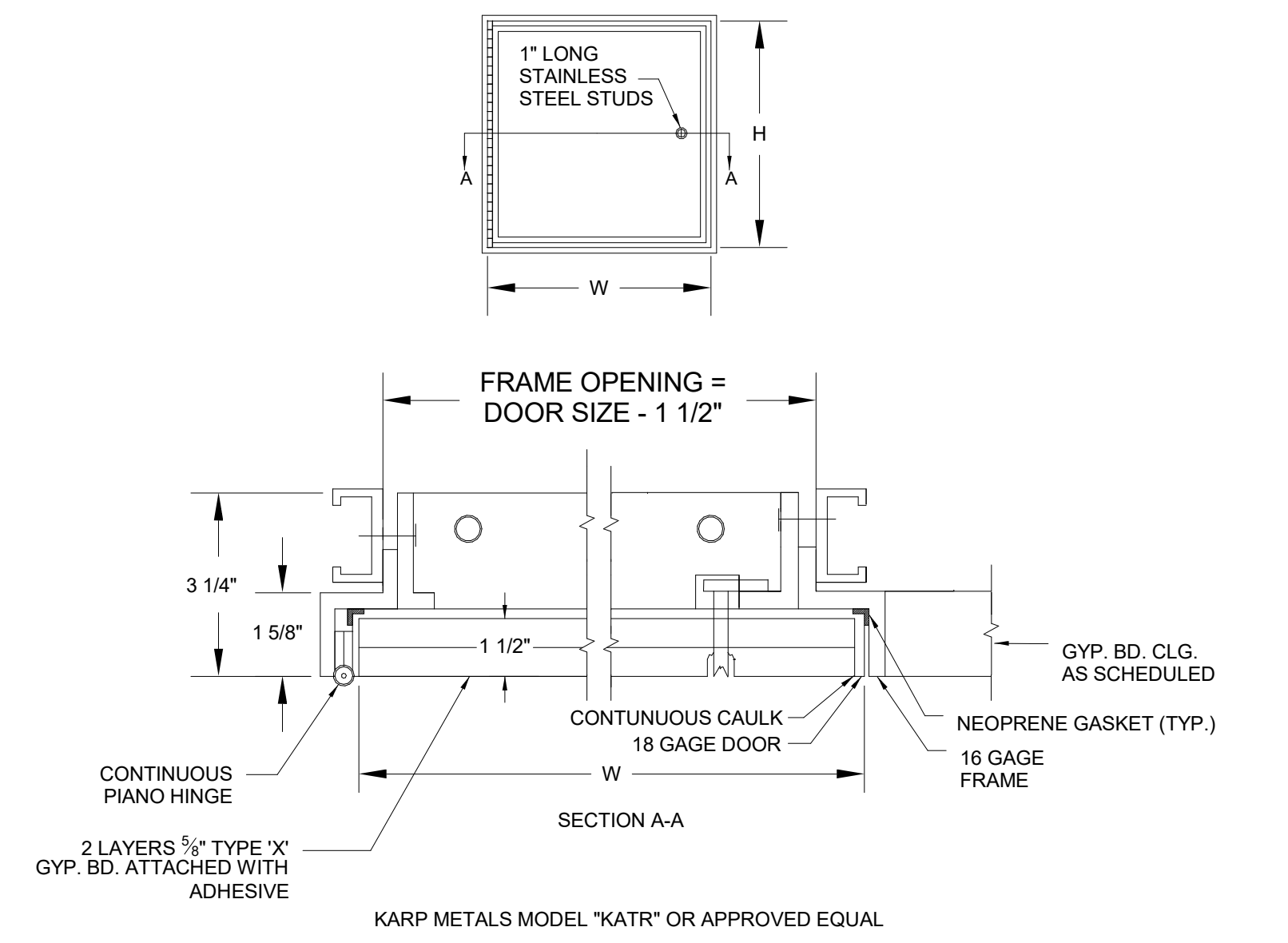
11 M5.04 NOT TO SCALE

02 M5.04 NOT TO SCALE

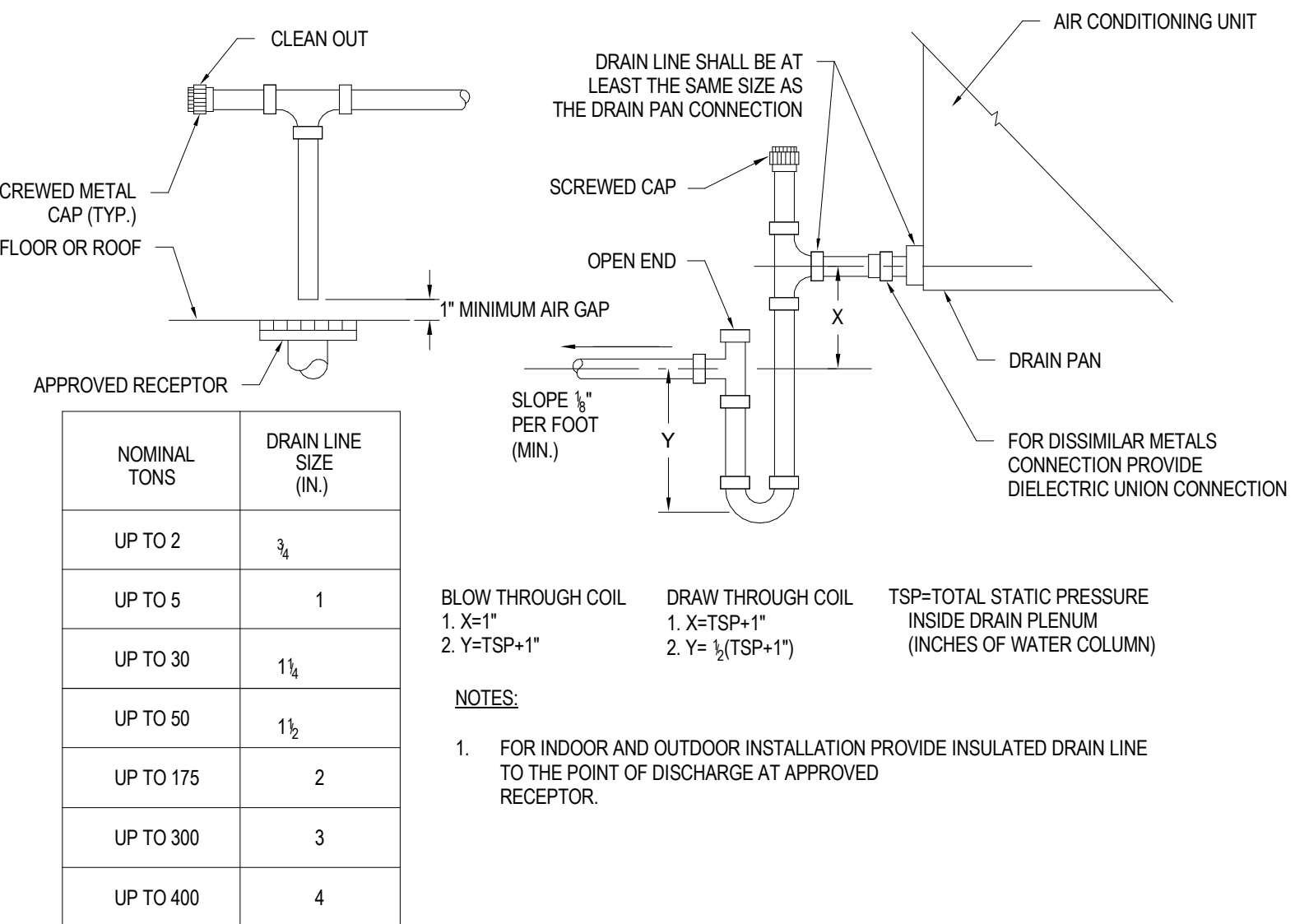
CELVIS PIPE BRACING SCHEDULE

PIPE SIZE	MAXIMUM SPACING	DESIGN LOAD PER HANGER	HANGER ROD SIZE	MAX. LENGTH OF RODS	ATTACH BOLT
UP TO 2 1/2"	8'-4" O.C.	65#	1/2"	25'	3/8"
3"	10'-0" O.C.	105#	1/2"	25'	3/8"
4"	10'-0" O.C.	163#	5/8"	31'	3/8"
5"	10'-0" O.C.	230#	5/8"	31'	1/2"
6"	10'-0" O.C.	315#	3/4"	37'	1/2"
8"	10'-0" O.C.	500#	3/4"	43'	5/8"
10"	10'-0" O.C.	745#	3/4"	43'	3/4"
12"	10'-0" O.C.	985#	3/4"	43'	3/4"
14"	10'-0" O.C.	1220#	3/4"	43'	3/4"
16"	10'-0" O.C.	1590#	3/4"	43'	3/4"

*EXCEPT FROM TABLE SCHEDULE FOR BRACING PIPES AND CONDUIT, SEISMIC HAZARD LEVEL (SHA) OF SMACNA "SEISMIC RESTRAINT MANUAL, GUIDELINES FOR MECHANICAL SYSTEMS" THIRD EDITION.
 TRANSVERSE SPACING SHALL BE AT 40 FEET MAXIMUM SPACING, AND LONGITUDINAL SPACING SHALL BE AT 80 FEET MAXIMUM, EXCEPT FROM CHAPTER 3 "GENERAL REQUIREMENTS" OF SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION.
 REFER TO TABLE OF SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION, FOR CONNECTION TYPE TO STRUCTURAL SUPPORTING MEMBER.
 FRAMING CHANNELS MAY BE USED AS AN ALTERNATIVE TO THE STRUCTURAL MEMBERS INDICATED ON THE TABLE ABOVE.
 *MACHINE BOLT AT END OF BRACE



03 M5.04 NOT TO SCALE



NOMINAL TONS	DRAIN LINE SIZE (IN)
UP TO 2	1/2"
UP TO 5	1"
UP TO 30	1 1/4"
UP TO 50	1 1/2"
UP TO 175	2"
UP TO 300	3"
UP TO 400	4"

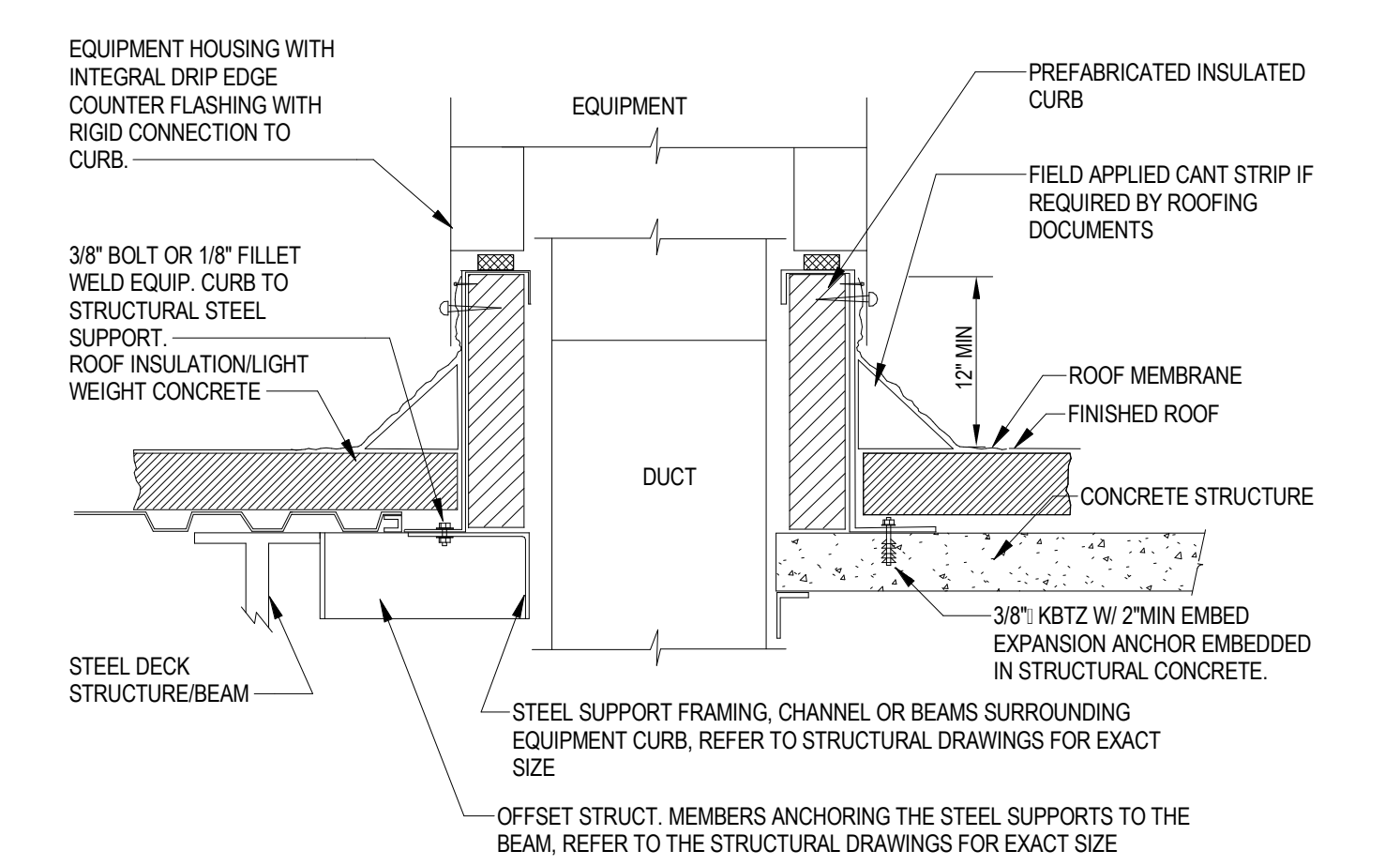
BLOW THROUGH COIL
 1. X-TSP-1*
 2. Y-TSP-1*

DRAW THROUGH COIL
 1. X-TSP-1*
 2. Y-TSP-1*

TSP=TOTAL STATIC PRESSURE INSIDE DRAIN PLENUM (INCHES OF WATER COLUMN)

NOTES:
 1. FOR INDOOR AND OUTDOOR INSTALLATION PROVIDE INSULATED DRAIN LINE TO THE POINT OF DISCHARGE AT APPROVED RECEPTOR.

09 M5.04 NOT TO SCALE



- NOTES:
- MINIMUM HEIGHT OF CURB 12". ADDITIONAL HEIGHT MAY BE REQUIRED TO MAINTAIN SPECIFIC CLEARANCES.
 - PROVIDE CURB AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
 - PROVIDE CURB FASTENERS TO STRUCTURE AT EACH CORNER AND AT CENTER POINTS WITH ADDITIONAL CONNECTIONS TO MEET PROJECT SPECIFIC SEISMIC AND WIND LOADS.
 - SEE PROJECT ROOFING DETAILS FOR ADDITIONAL REQUIREMENTS.

12 M5.04 NOT TO SCALE

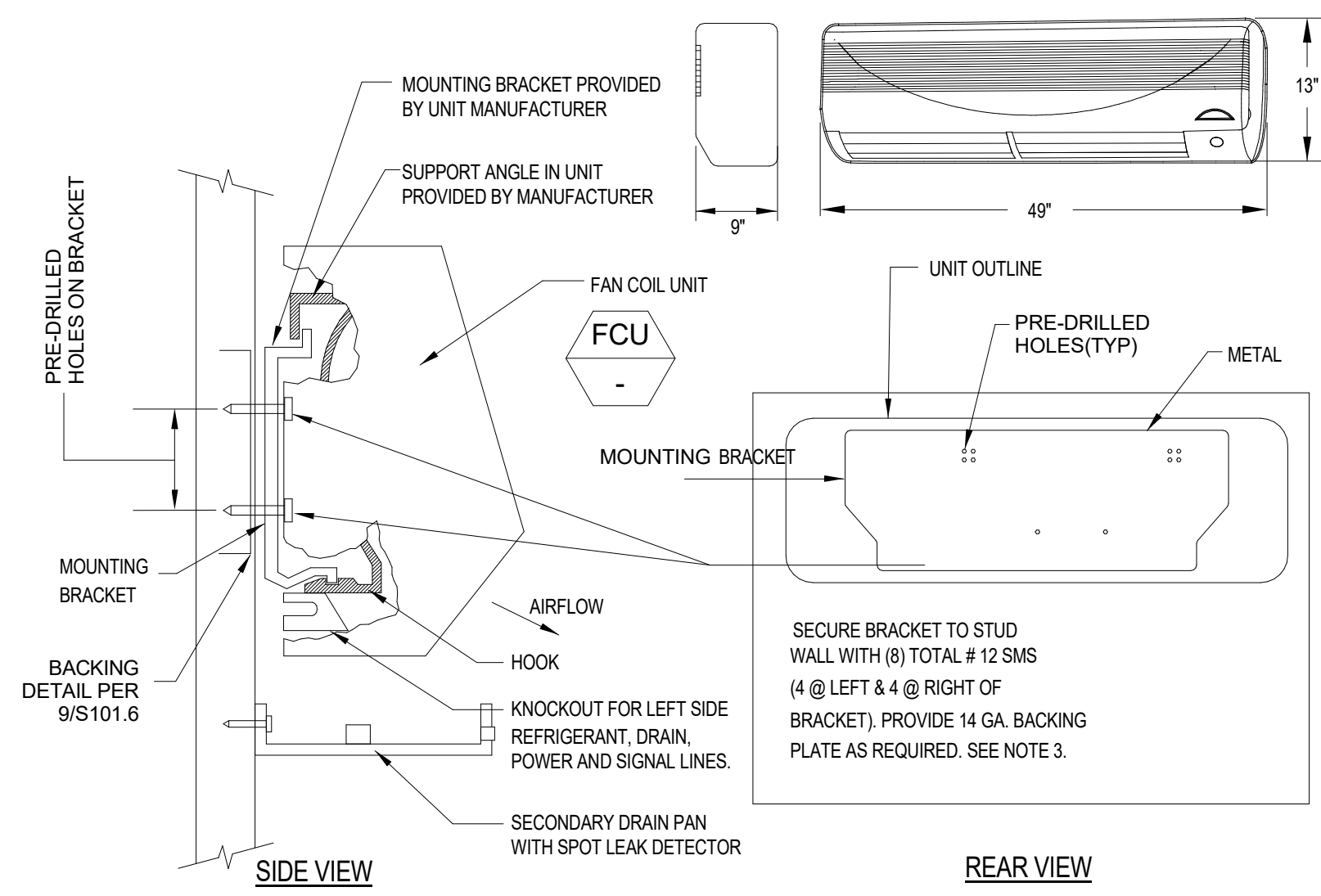
06 M5.04 NOT TO SCALE



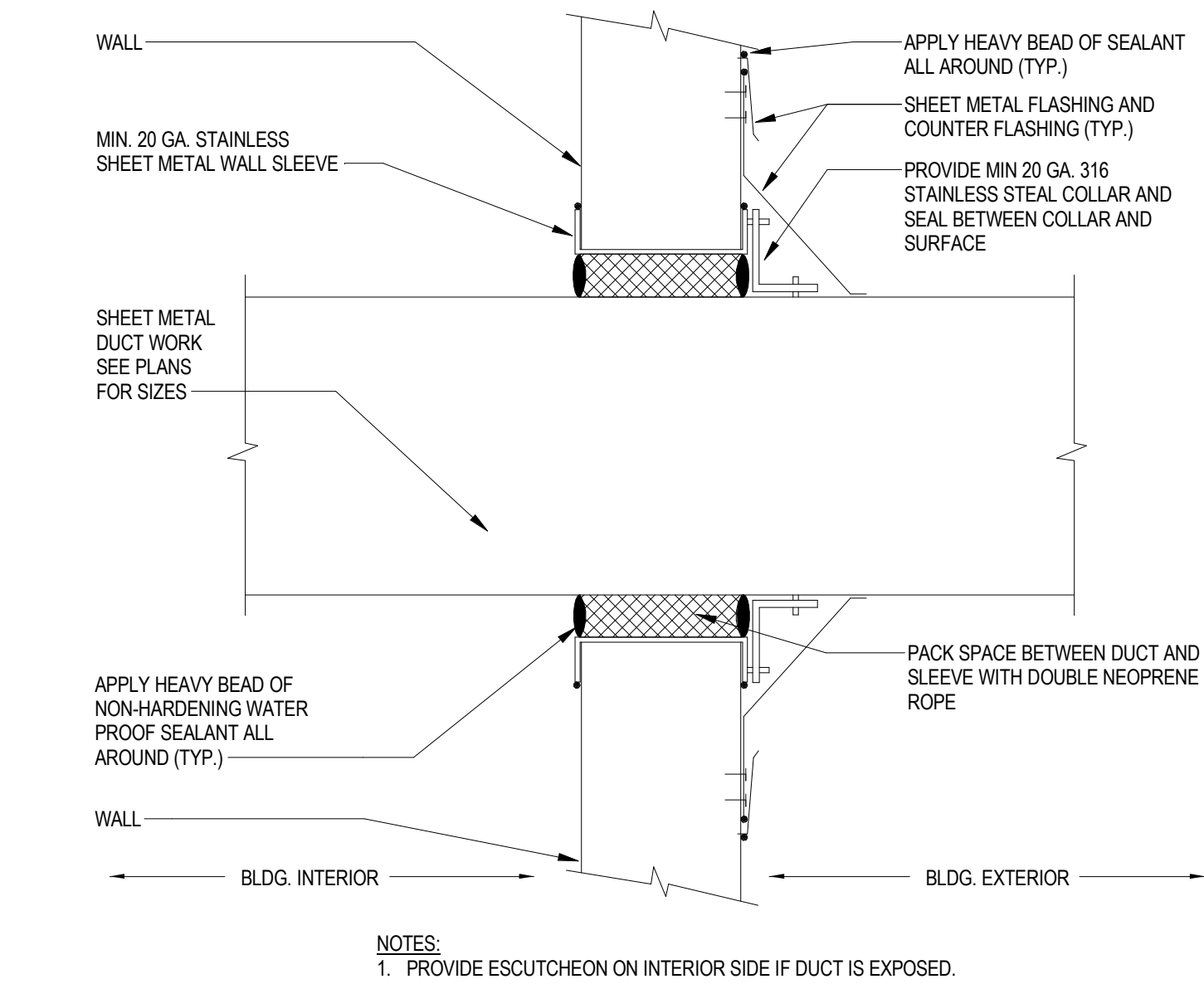
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CONSTRUCTION DOCUMENTS

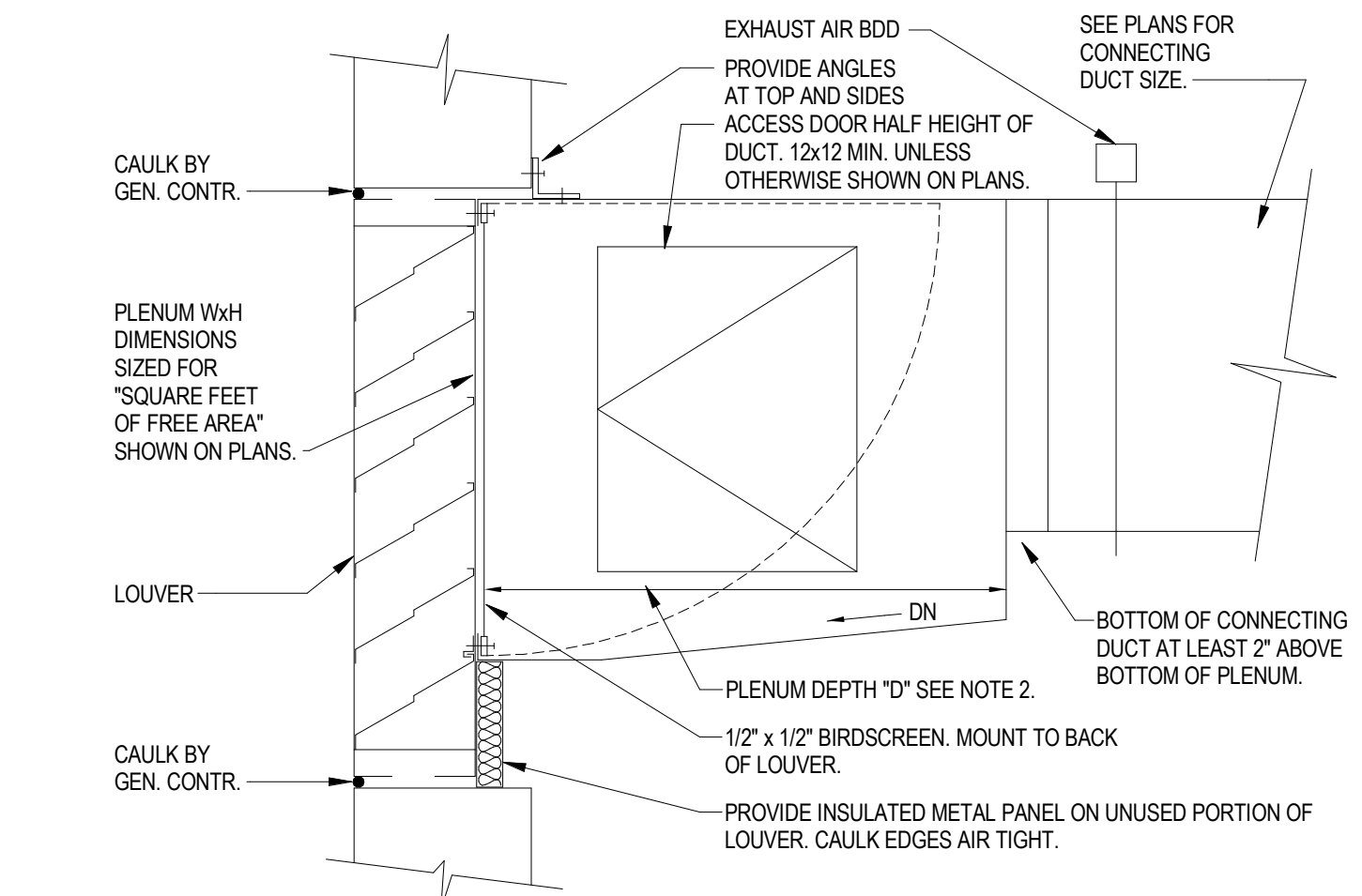
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NOTES:
 1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.
 2. WHERE CONCRETE WALL OCCURS, ANCHOR WITH (4) 1/4" HLTH KB TZ, 1-1/8" MIN EMBED. (ICC ESR-1917).
 04 M5.05
DUCTLESS FAN COIL UNIT WALL MOUNTING DETAIL
 NOT TO SCALE

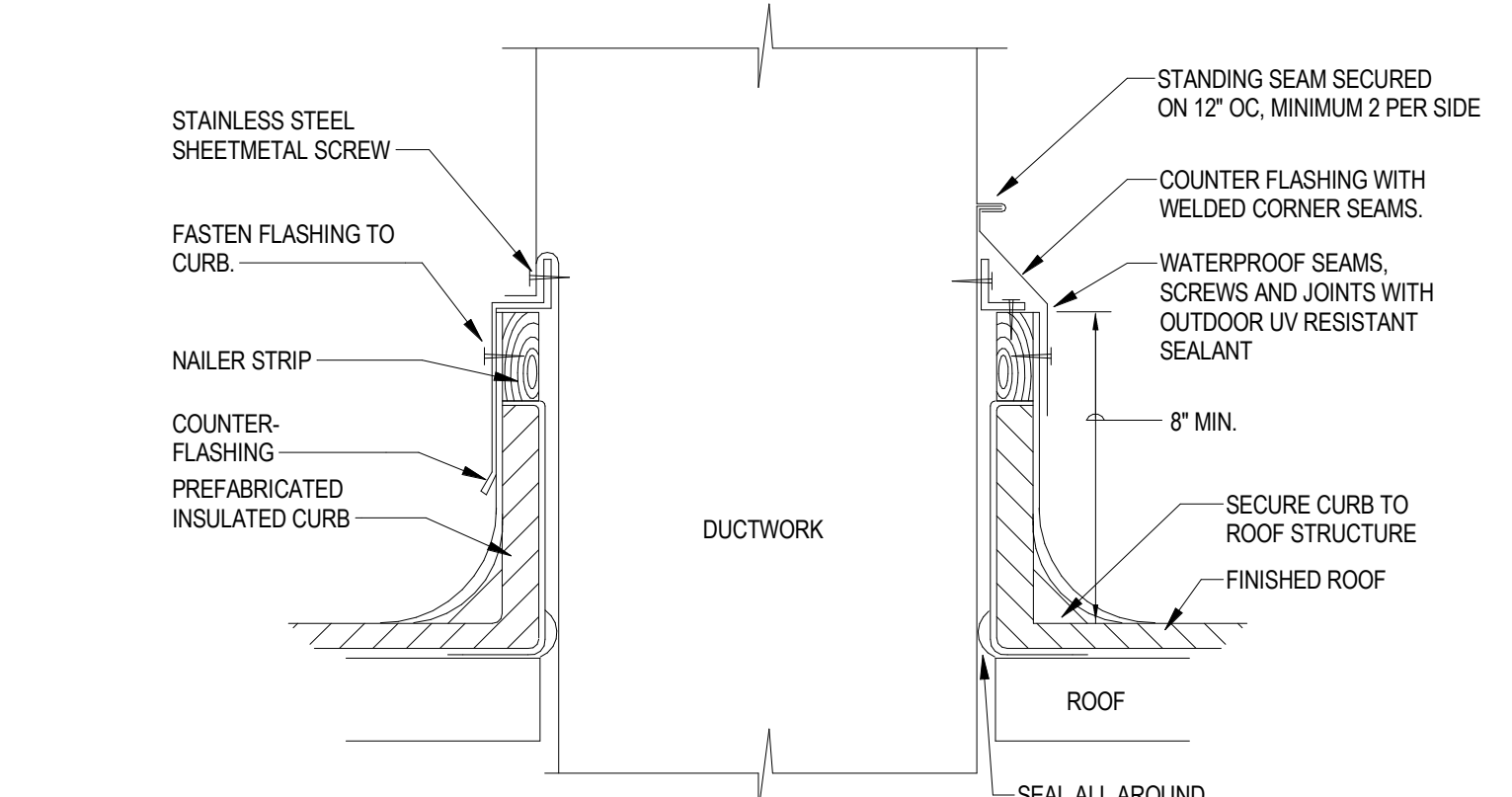


08 M5.05
DUCT PENETRATION THRU EXTERIOR WALL
 NOT TO SCALE



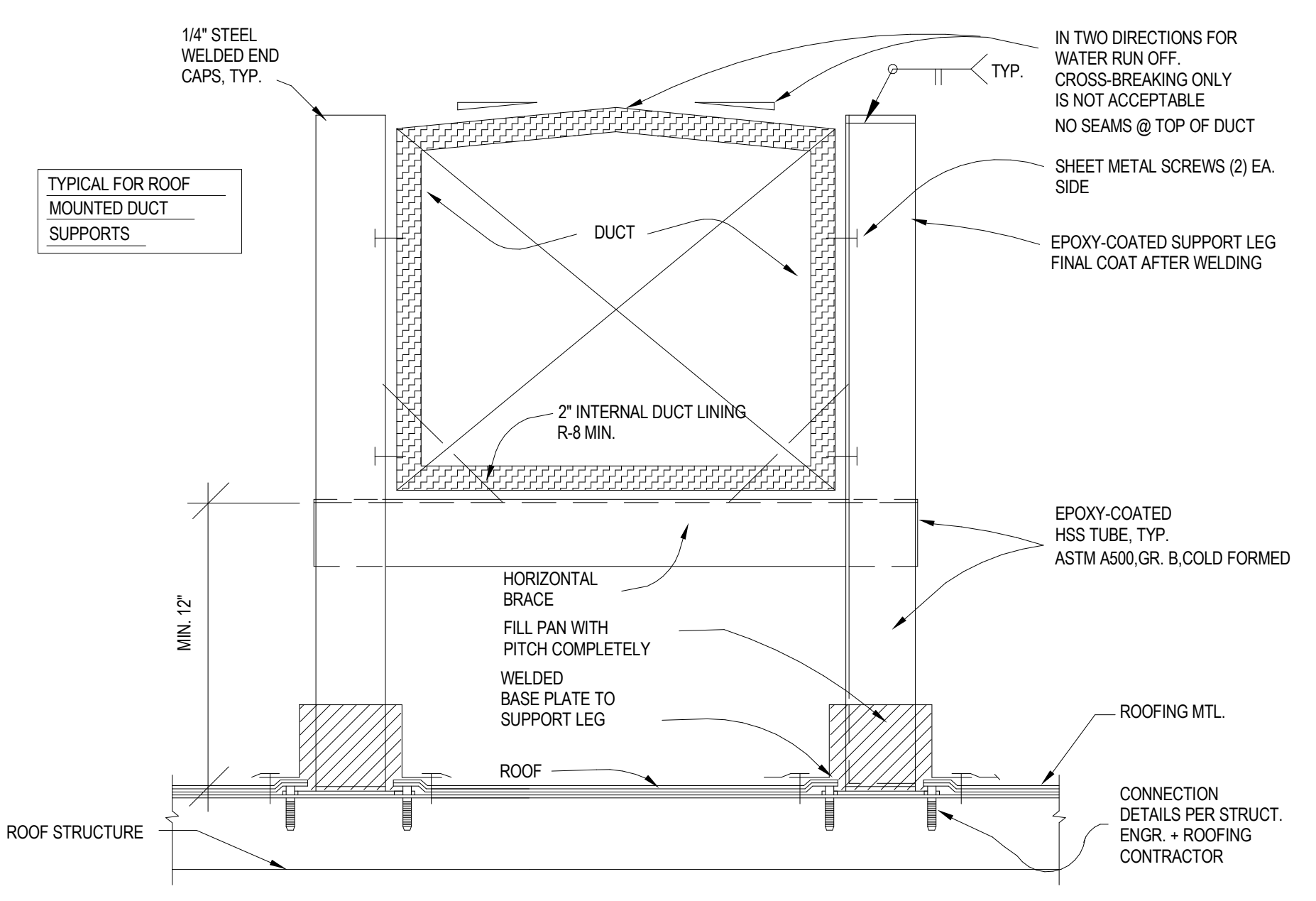
NOTES:
 1. BIRD SCREEN FOR OUTSIDE AIR INTAKE LOUVER TO BE REMOVABLE OR HINGED AT TOP TO SWING UP.
 2. FOR PLENUM DEPTH "D" LESS THAN 24 INCHES, DRAIN IS NOT REQUIRED AND PLENUM SHALL PITCH CONTINUOUSLY TO LOUVER FACE.
 3. COAT ENTIRE INSIDE SURFACE OF PLENUM WITH WATERPROOF MASTIC.
 4. INSULATE PLENUM PER SPECIFICATIONS.

19 M5.05
DUCT CONNECTION TO LOUVER
 NOT TO SCALE

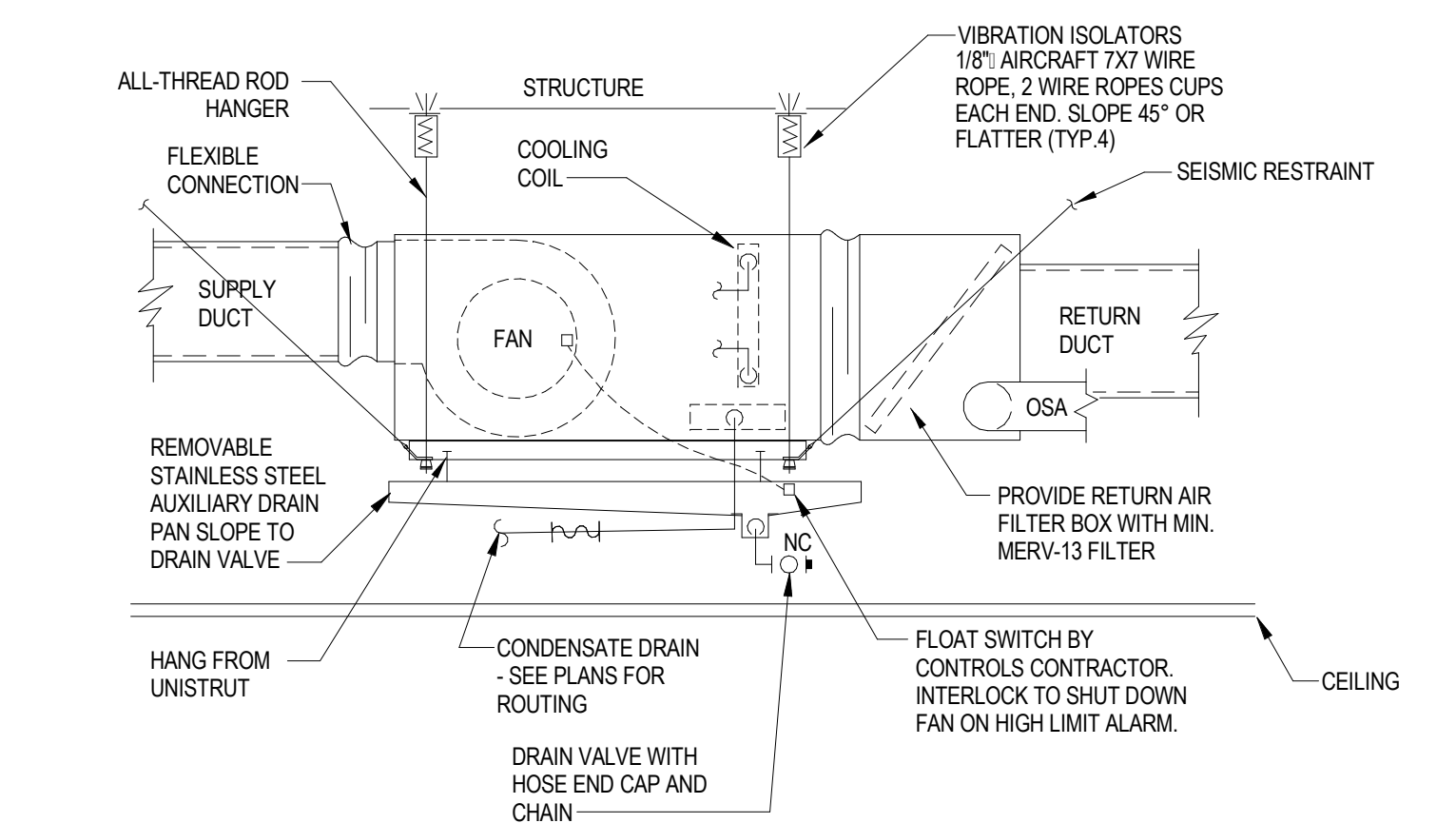


NOTES:
 1. REFER TO ROOF CURB DETAIL FOR ATTACHMENT OF CURB TO STRUCTURE.
 2. PROVIDE CURB AND FASTENERS PER CONTRACTOR OR MANUFACTURER ENGINEER'S CALCULATIONS BASED UPON EXACT EQUIPMENT SIZE, WEIGHT, LOCATION AND PROJECT SPECIFIC SEISMIC AND WIND LOADS.
 3. FLASHING SEAMS SHALL BE WELDED FOR WATER TIGHT SEAL, PAINT ALL WELDS WITH RUST RESISTIVE PAINT.
 4. DETAIL INDICATES TWO CONTRACTOR FLASHING OPTIONS.

01 M5.05
DUCT PENETRATION THROUGH ROOF
 NOT TO SCALE



02 M5.05
DUCT SUPPORT DETAIL
 NOT TO SCALE



NOTES:
 1. UNIT MAY CONTAIN HEATING COIL (HOT WATER, STEAM OR ELECTRIC). MOUNTING IS SAME FOR ALL VARIATIONS ALTHOUGH ADDITIONAL PIPING AND ELECTRICAL WORK MAY BE REQUIRED.
 2. PROVIDE FLEX CONNECTION FOR EACH UNIT.
 3. PROVIDE 30" SERVICE CLEARANCE FOR UNIT MAINTENANCE. PROVIDE AMPLE ACCESS TO FAN, COILS AND FILTER SECTIONS OF EACH UNIT.
 4. PRIMARY CONDENSATE DRAIN PAN SHALL BE BUILT INSIDE UNIT. PROVIDE SECONDARY DRAIN PAN WITH LEAK DETECTION AND TERMINATE DRAIN IN A VISIBLE LOCATION.
 5. CONTRACTOR SHALL FIELD MODIFY SUPPLY / RETURN DISCHARGE / INLET AS SHOWN ON PLANS. PROVIDE LINED RETURN & SUPPLY AIR DUCTWORK FOR THE FIRST 15 FT FROM UNIT.
 6. UNIT MAY NOT REQUIRE SUPPLY OR RETURN DUCT CONNECTIONS. SEE PLANS FOR LAYOUT.

02 M5.05
TYPICAL FAN COIL UNIT DETAIL
 NOT TO SCALE

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 OFFICE OF FIRE SAFETY
 CALIFORNIA STATE FIRE MARSHAL APPROVED
 PANIC AND LIFE SAFETY ONLY
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 Approved by: *DS* 07/18/2023
 CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-08-09	M5 COMMENT REVISION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
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CAL POLY TECH PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA

SHEET TITLE
MECHANICAL DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
M-505
 DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

AIR DISTRIBUTION SCHEDULE

TAG	TYPE	CFM	NECK SIZE	FACE SIZE / LENGTH (IN)	OPPOSED SLADE DAMPER (Y/N)	MAX. S.P. (IN.W.C.)	MANUFACTURE R & MODEL NO.	IMAGE	REMARKS (SEE NOTES BELOW)
CD-2	SUPPLY	0-90 91-180 181-280 281-400 401-500	6"ø 8"ø 10"ø 12"ø 14"ø	12x12 12x12 24x24 24x24 24x24	Y	0.1	TITUS OMNI		CEILING DIFFUSER SQUARE PLAQUE, MUD-IN
SD-1	SPIRAL DUCT-MOUNTED SUPPLY	0-240 241-330	18x6 18x8	18x8 20X10	N	0.1	TITUS S300FL		SPIRAL DUCT-MOUNTED DOUBLE DEFLECTION GRILLE WITH AIR SCOP DAMPER, CONCEALED SCREW, BLADES PARALLEL TO LONG DIMENSION
CD-1	SUPPLY	0-90 91-180 181-280 281-400 401-500	6"ø 8"ø 10"ø 12"ø 14"ø	24x24	N	0.1	TITUS PMC		MODULAR CORE DIFFUSER WITH PERFORATED FACE, ADJUSTABLE 4-WAY PATTERN
CR-1	RETURN / EXHAUST	0-750	18x18	24x24	N	0.1	TITUS PAR		PERFORATED RETURN DIFFUSER
SWS-1	SIDEWALL SUPPLY	0-350 351-600 601-800 801-1000 1001-1500 1501-2000	12x12 22x12 28x12 34x12 40x16 42x20	NECK + 1-3/4"	Y	0.1	TITUS 300FL		SUPPLY REGISTER DOUBLE DEFLECTION 3/4" BLADE SPACING BLADES PARALLEL TO LONG DIMENSION
CR-2 / ES-1	RETURN / EXHAUST	0-90 91-180 181-280 281-400 401-500	6"ø 8"ø 10"ø 12"ø 14"ø	12x12 24x24 24x24 24x24 24x24	N	0.1	TITUS OMNI		CEILING DIFFUSER SQUARE PLAQUE, MUD-IN
SWR-1 / TDS-X	RETURN / EXHAUST / TRANSFER	0-350 351-600 601-800 801-1000 1001-1500 1501-2000	12x12 22x12 28x12 34x12 40x16 42x20	NECK + 1-3/4"	Y	0.1	TITUS 350FL		RETURN OR EXHAUST REGISTER 35 DEG FIXED DEFLECTION 3/4" BLADE SPACING BLADES PARALLEL TO LONG DIMENSION
LD-1	LINEAR SLOT SUPPLY	0-90 91-160	6" OVAL 8" OVAL	48	N	0.1	TITUS FL-10		LINEAR DIFFUSER 1 x 1" SLOT HIGH THROW WITH INSULATED PLENUM
LD-2	LINEAR SLOT SUPPLY	0-220 221-280	10" OVAL 12" OVAL	48	N	0.1	TITUS FL-20		LINEAR DIFFUSER 1 x 2" SLOT HIGH THROW WITH INSULATED PLENUM
LR-1	LINEAR SLOT RETURN	0-90 91-160	-	48	N	0.1	TITUS FL-10		LINEAR RETURN 1 x 1" SLOT WITH RETURN HOOD/LIGHT SHIELD
LR-2	LINEAR SLOT RETURN	0-220 221-280	-	48	N	0.1	TITUS FL-20		LINEAR RETURN 1 x 2" SLOT WITH RETURN HOOD/LIGHT SHIELD

NOTES:
 1. SEE ARCHITECTURAL PLANS FOR CEILING TYPE. PROVIDE LAY-IN TYPE BORDER FOR ACOUSTICAL TILE CEILINGS AND SURFACE MOUNT BORDER FOR GYPSUM BOARD AND OTHER TYPES OF CEILING OR WALLS.
 2. PROVIDE 24x24 MODULE FOR STANDARD LAY-IN CEILINGS. PROVIDE 12x12 MODULE FOR SMALL ROOMS WHERE 24x24 GRID LOCATIONS ARE NOT AVAILABLE.
 3. INCREASE NECK SIZE 2" FOR 2 AND 3 WAY BLOW APPLICATIONS.
 4. DIFFUSER AND REGISTER COLOR AND FINISH SHALL BE SELECTED BY THE ARCHITECT. ALUMINUM WHITE IS LISTED AS STANDARD.
 5. PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED TO COMPLETE INSTALLATION WITH THE CONNECTED DUCTWORK.
 6. PROVIDE SECTIONING Baffles FOR 1, 2, AND 3 WAY BLOW APPLICATIONS.
 7. PROVIDE YOUNG REGULATOR DAMPER CONTROLS MODEL NO. 52036 FOR ACCESS TO VOLUME DAMPERS ABOVE A HARD LID CEILING. VERIFY ACCESS LOCATION IN THE CEILING WITH ARCHITECT BEFORE INSTALLATION.
 8. PROVIDE SECTIONING Baffles FOR 1, 2, AND 3 WAY BLOW APPLICATIONS.
 9. LINEAR SUPPLY DIFFUSERS SHALL BE HIGH THROW PATTERN UNLESS OTHERWISE NOTED ON PLAN.
 10. OPPOSED SLADE DAMPERS ARE NOT ALLOWED ON AIR DISTRIBUTION. SEE NOTE ON PLANS REQUIRING ALL BALANCING THROUGH MANUAL VOLUME DAMPERS IN DUCT, AS FAR AS POSSIBLE FROM DIFFUSERS AND GRILLES.
 11. PROVIDE WITH BLACK BACKING FOR ALL DIFFUSERS WITH ARCHITECT APPROVAL.
 12. ALL DIFFUSERS SHALL BE RATED AT MAX. NO-15 SOUND LEVEL.

VRF OUTDOOR CONDENSING UNIT

UNIT NO.	MANUFACTURER & MODEL NUMBER	SERVICE	LOCATION	NOMINAL TONS	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	EER / EER	COP	REFRIG. TYPE	AMBIENT AIR TEMP. (°F)	ELECTRICAL DATA										OPER. WT. (LBS)	NOTES
											CIRCUIT 1		CIRCUIT 2		VOLT	PH	HZ	EMERG. POWER (Y/N)	OPER. WT. (LBS)			
											SUMMER	WINTER	MCA	MCCP						MCA		
ODU-1	DAIKIN RYQ14AATJA	LEVEL 1 SPACES	GROUND	12.0	144.0	162.0	11.0/23.0	3.3	410-A	100	35	47.8	60	NA	NA	208	3	60	N	800	1,2,3,4,5	
ODU-2	DAIKIN RYQ14AATJA	LEVEL 1 SPACES	GROUND	12.0	144.0	162.0	11.0/23.0	3.3	410-A	100	35	47.8	60	NA	NA	208	3	60	N	800	1,2,3,4,5	
ODU-3	DAIKIN RYQ16AATJA	CORRIDOR / RESTROOMS	GROUND	8.0	96.0	108.0	13.5/21.1	3.6	410-A	100	35	38.3	45	NA	NA	208	3	60	N	600	1,2,3,4,6	

NOTES:
 1. INSTALLATION, WIRING AND PIPING SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 2. PROVIDE BEACAST CORROSION RESISTANT COIL COATING WITH SALT-SPRINK TEST OF MIN. 1000 HOURS.
 3. PROVIDE WITH VIBRATION ISOLATION AND SEISMIC RESTRAINT, M.W. SAUSSE RMAB-EQ-SH OR EQUAL, 1" STATIC DEFLECTION.
 4. PROVIDE VRF CENTRAL CONTROLLER WITH INTELLIGENT TOUCH SCREEN AND BACNET OPTION.
 5. UNIT SHALL BE HEAT RECOVERY TYPE SYSTEM WITH 3-Pipe REFRIGERANT PIPING.
 6. UNIT SHALL BE HEAT PUMP TYPE SYSTEM WITH 2-Pipe REFRIGERANT PIPING.

VRF HEAT RECOVERY BRANCH SELECTOR BOX

UNIT NO.	MANUFACTURER & MODEL NUMBER	LOCATION	OUTDOOR UNIT	PORTS	MAX. CAPACITY PER PORT (MBH)	MAX. CAPACITY PER BOX (MBH)	ELECTRICAL DATA										OPER. WT. (LBS)	NOTES
							CIRCUIT 1		CIRCUIT 2		VOLT	PH	HZ	EMERG. POWER (Y/N)	OPER. WT. (LBS)			
							SUMMER	WINTER	MCA	MCCP						MCA		
HRU-1	DAIKIN BSF424TVJ	CEILING	ODU-1	4	54	144	0.4	15	208-230	1	60	N	65	1-3				
HRU-2	DAIKIN BSF424TVJ	CEILING	ODU-1	4	54	144	0.4	15	208-230	1	60	N	65	1-3				
HRU-3	DAIKIN BSF424TVJ	CEILING	ODU-2	4	54	144	0.4	15	208-230	1	60	N	65	1-3				

NOTES:
 1. INSTALLATION, WIRING AND PIPING SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 2. MULTIPLE PORTS MAY BE TWINNED TOGETHER FOR ONE FCU PIPING IN ORDER TO MEET THE FCU CAPACITY.
 3. UNIT DOES NOT REQUIRE CONDENSATE DRAIN.

VRF INDOOR FAN COIL UNIT

UNIT NO.	MANUFACTURER & MODEL NUMBER	CONNECTED OUTDOOR UNIT	LOCATION	TYPE	NOMINAL TONS	FAN DATA										COOLING COIL (DIX)										HEATING										ELECTRICAL DATA										FILTERS										OPER. WT. (LBS)	NOTES
						CFM		ESP	OSA CFM	MOTOR (WATTS)	EAT (°F)	LAT (°F)	DB	WB	DB	WB	TOTAL	SENS.	REFRIG. TYPE	FACE VELOCITY (FPM)	HEATING CAPACITY (MBH)	ARR. TEMP. (°F)	MCA	MCCP	VOLT	PH	HZ	NO.	MERV																												
						ENT	EXIT																							ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT	ENT	EXIT						
FCU-1	DAIKIN FXS024TAVJ	ODU-3	CEILING	CEILING DUCTED	3	1,130	0.5	180	331	75	63	54	53	34.6	29.4	450-A	500	40.0	64	96	2.9	15	208-230	1	60	1	13	100	1-9																												
FCU-2	DAIKIN FXS024TAVJ	ODU-1	CEILING	CEILING DUCTED	2	740	0.5	240	222	78	65	56	55	23.0	19.6	450-A	500	27.0	57	91	1.8	15	208-230	1	60	1	13	100	1-9																												
FCU-3	DAIKIN FXS024TAVJ	ODU-1	CEILING	CEILING DUCTED	2	740	0.5	180	222	78	63	54	53	23.0	19.6	450-A	500	27.0	61	95	1.8	15	208-230	1	60	1	13	100	1-9																												
FCU-4	DAIKIN FXM048PBVJ	ODU-1	CEILING	CEILING DUCTED	4	1,375	0.6	540	460	79	66	56	55	46.1	39.2	450-A	500	54.0	54	91	3.4	15	208-230	1	60	1	13	100	1-9																												
FCU-5	DAIKIN FXM048PBVJ	ODU-2	CEILING	CEILING DUCTED	4	1,375	0.6	360	460	77	64	55	54	46.1	39.2	450-A	500	54.0	60	96	3.4	15	208-230	1	60	1	13	100	1-9																												
FCU-6	DAIKIN FXM048PBVJ	ODU-2	CEILING	CEILING DUCTED	4	1,375	0.6	130	460	74	63	54	53	46.1	39.2	450-A	500	54.0	66	103	3.4	15	208-230	1	60	1	13	100	1-9																												
FCU-7	DAIKIN FXS024TAVJ	ODU-2	CEILING	CEILING DUCTED	3	1,130	0.5	120	331	74	63	54	53	34.6	29.4	450-A	500	40.0	66	99	2.9	15	208-230	1	60	1	13	100	1-9																												
FCU-8	DAIKIN FXS024TAVJ	ODU-1	CEILING	CEILING DUCTED	3	1,130	0.5	100	331	74	63	54	53	34.6	29.4	450-A	500	40.0	66	99	2.9	15	208-230	1	60	1	13	100	1-9																												
FCU-9	DAIKIN FXS024TAVJ	ODU-2	CEILING	CEILING DUCTED	1	335	0.5	60	111	75	63	54	53	11.5	9.8	450-A	500	13.5	63	100	1.4	15	208-230	1	60	1	13	100	1-9																												
FCU-10	DAIKIN FXS024TAVJ	ODU-1	CEILING	CEILING DUCTED	1	335	0.5	120	111	78	65	56	55	11.5	9.8	450-A	500	13.5	56	93	1.4	15	208-230	1	60	1	13	100	1-9																												
FCU-11	DAIKIN FXS024TAVJ	ODU-3	CEILING	CEILING DUCTED	2	740	0.5	130	222	75	63	54	53	23.0	19.6	450-A	500	27.0	63	97	1.8	15	208-230	1	60	1	13	100	1-9																												
FCU-12	DAIKIN FXS024TAVJ	ODU-3	CEILING	CEILING DUCTED	2	740	0.5	110	222	75	63	54	53	23.0	19.6	450-A	500	27.0	64	98	1.8	15	208-230	1	60	1	13	100	1-9																												
FCU-13	FUTURE TENANT UNIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																												

NOTES:
 1. INSTALLATION, WIRING AND PIPING SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 2. PLUMBING CONTRACTOR TO ROUTE CONDENSATE DRAIN FROM CONDENSATE PUMP TO NEAREST APPROVED PLUMBING RECEIVER.
 3. PROVIDE FILTER BOX WITH MIN. 2" MERV-13 FILTERS. PROVIDE FILTER CLOG SWITCH WITH ALARM TO CHANGE FILTERS.
 4. PROVIDE WITH STAINLESS STEEL DRAIN PAN AND SECONDARY DRAIN PAN.
 5. PROVIDE UNIT WITH SPOT LEAK DETECTOR PLACED IN THE SECONDARY PAN. UPON DETECTION LEAK THE UNIT WILL BE SHUT DOWN.
 6. PROVIDE WITH VIBRATION ISOLATION AND SEISMIC RESTRAINT, M.W. SAUSSE RMAB-EQ-SH OR EQUAL, 1" STATIC DEFLECTION.
 7. PROVIDE OSA DUCT WITH CONSTANT AIRFLOW REGULATOR. SIMLAR TO AMERICAN ALDERS CARB.
 8. PROVIDE DUCT MOUNTED SMOKE DETECTOR ON SUPPLY AIR DUCTWORK FOR ALL UNITS.
 9. CONTRACTOR SHALL PROVIDE AND INSTALL 15V1PH03 "HARTEL" OR EQUAL CONDENSATE PUMP. CONDENSATE PUMP SHALL BE INSTALLED ON OR ADJACENT TO UNIT. THE CONDENSATE PUMP SHALL BE APPROVED TO BE USED IN PLENUM AND HARD WIRED MOUNTED SEPARATELY FROM THE UNIT.

DX SPLIT SYSTEM AC - INDOOR FAN COIL UNIT - COOLING ONLY

UNIT NO.	MANUFACTURER & MODEL NUMBER	SERVICE	LOCATION	TYPE	NOMINAL TONS	FAN DATA										COOLING COIL (DIX)										ELECTRICAL DATA										OPER. WT. (LBS)	NOTES
						CFM		ESP	OSA CFM	MOTOR (W)	EAT (°F)	LAT (°F)	DB	WB	DB	WB	TOTAL	SENS.	REFRIG. TYPE	FACE VELOCITY (FPM)	CAP. (MBH)	FLA	MCA	MCCP	VOLT	PH	HZ	NO.	MERV								
						ENT	EXIT																							ENT	EXIT	ENT	EXIT	ENT	EXIT		
ACU-1	DAIKIN FTXS24VJ	ELEV. MECH. RM.	LEVEL 1	WALL HUNG	2	600	0.2	48	78	63	55	54	21.4	15.9	410-A	500	POWERED FROM OUTDOOR UNIT	40	1-6																		
ACU-2	DAIKIN FTXS24VJ	MAIN TELECOM	LEVEL 1	WALL HUNG	2	600	0.2	48	78	63	55	54	21.4	15.9	410-A	500	POWERED FROM OUTDOOR UNIT	40	1-6																		

NOTES:
 1. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.
 2. INSTALLATION, WIRING AND PIPING SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 3. PLUMBING CONTRACTOR TO ROUTE CONDENSATE DRAIN FROM CONDENSATE PUMP TO NEAREST APPROVED PLUMBING RECEIVER.
 4. PROVIDE WITH STAINLESS STEEL DRAIN PAN AND SECONDARY DRAIN PAN.
 5. PROVIDE UNIT WITH SPOT LEAK DETECTOR PLACED IN THE SECONDARY PAN. UPON DETECTION LEAK THE UNIT WILL BE SHUT DOWN.
 6. CONTRACTOR SHALL PROVIDE AND INSTALL 15V1PH03 "HARTEL" OR EQUAL CONDENSATE PUMP. CONDENSATE PUMP SHALL BE INSTALLED ON OR ADJACENT TO UNIT. THE CONDENSATE PUMP SHALL BE APPROVED TO BE USED IN PLENUM AND HARD WIRED MOUNTED SEPARATELY FROM THE UNIT.

DX SPLIT SYSTEM AC - OUTDOOR CONDENSING UNITS - COOLING ONLY

UNIT NO.	MANUFACTURER & MODEL NUMBER	SERVICE	LOCATION	CAPACITY (MBH)	EER	COP	MIN. SEER	REFRIG. TYPE	AMBIENT AIR TEMP. (°F)	ELECTRICAL DATA										OPER. WT. (LBS)	NOTES		
										SUMMER		WINTER		FLA	MCA	MCCP	VOLT	PH	HZ			EMERG. POWER (Y/N)	OPER. WT. (LBS)
										ENT	EXIT	ENT	EXIT										
OU-1	DAIKIN RXS18VJ	ACU-1	GROUND	21.5	12.5	3.4	20	R410A	100	35	-	19	20	208	1	60	N	160	1,2,3,4				
OU-2	DAIKIN RXS18VJ	ACU-2	GROUND	21.5	12.5	3.4	20	R410A	100	35	-	19	20	208	1	60	N	160	1,2,3,4				

NOTES:
 1. INSTALLATION, WIRING AND PIPING SHALL BE PER MANUFACTURER'S RECOMMENDATION.
 2. PROVIDE WITH VIBRATION ISOLATION AND SEISMIC RESTRAINT, M.W. SAUSSE RMAB-EQ-SH OR EQUAL, 1" STATIC DEFLECTION.
 3. PROVIDE BEACAST CORROSION RESISTANT COIL COATING WITH SALT-SPRINK TEST OF MIN. 1000 HOURS.
 4. PROVIDE EXTENDED OPERATING RANGE FROM 0°F TO 115°F.

OSA AIRFLOW MEASUREMENT STATION

UNIT NO.	MANUFACTURER & MODEL NUMBER	LOCATION	TYPE	MAX. AIRFLOW CFM	MAX. VELOCITY FPM	DUCT SIZE (IN)	ELECTRICAL DATA	OPER. WT. (LBS)	NOTES
AMS-1	EBTRON GTX116-P+	ROOF DUCT MOUNTED	THERMAL DISPERSION	2,500	605	24x24	24 VAC @ 20V-A MAX	50	1-4
AMS-2	EBTRON GTX116-P+	ROOF DUCT MOUNTED	THERMAL DISPERSION	2,000	500	24x24	24 VAC @ 20V-A MAX	50	1-4

PIPE INSULATION REQUIREMENTS

(PER 1-24-2019, TABLE 1203.3-A PIPE INSULATION THICKNESS)

FILD TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (BTU-INCH PER HOUR PER SQ-FT PER °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (INCHES)				
			1 & LESS	1 TO < 1.5	1.5 TO < 4	4 TO < 8	8 & LARGER
SPACE HEATING SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATING SYSTEMS							
ABOVE 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	3.0	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.22 - 0.28	100	1.0	1.5	1.5	1.5	1.5
SPACE COOLING SYSTEM (CHILLED WATER, REFRIGERANT AND BRINE)							
40 - 60	0.21 - 0.27	75	NOMRES 0.5	RES 0.75	NOMRES 0.5	RES 0.75	1.0
BELOW 40	0.20 - 0.26	50	1.0	1.5	1.5	1.5	1.5

DUCT INSULATION REQUIREMENTS

(PER 1-24-2019, BUILDING ENERGY EFFICIENCY STANDARDS §204.6a)

DUCT LOCATION	INSULATION R-VALUE	INSTALLED INSULATION THICKNESS
<ul style="list-style-type: none"> OUTDOORS SPACE BETWEEN ROOF & INSULATED CEILING IN VENTILATED SPACES IN UNCONDITIONED SPACES 	R-8	2"
<ul style="list-style-type: none"> IN RETURN AIR PLENUM ALL OTHER SPACES 	R-4.2	1"
<ul style="list-style-type: none"> ENCLOSED IN DIRECTLY CONDITIONED SPACE 	NOT REQUIRED	1"

NOTES:
 1. INSULATION THICKNESS VALUES BASED ON JOHN MANVILLE INSULATION.
 2. THE INSTALLED INSULATION THICKNESS OF DUCT LINING FOR PURPOSE OF COMPLIANCE IS EQUIVALENT TO ITS NOMINAL THICKNESS.
 3. THE INSTALLED INSULATION THICKNESS OF DUCT WRAP FOR PURPOSE OF COMPLIANCE IS 2% OF ITS NOMINAL THICKNESS.
 4. ALL DUCTWORK SHALL BE PROVIDED WITH F ACOUSTICAL LINING IN EXPOSED CEILING AREAS UNLESS NOTED OTHERWISE.

CONDENSATE DRAIN PIPE SIZING SCHEDULE

TONS OF REFRIGERATION	SIZE (IN)
THROUGH 3	3/4"
THROUGH 20	1"
THROUGH 90	1 1/4"
THROUGH 125	1 1/2"
THROUGH 250	2"

NOTES:
 THE CAPACITY OF WASTE PIPES ASSUMES A ONE-EIGHT (1/8) INCH PER FOOT OR ONE PERCENT SLOPE.

ACOUSTICAL NOISE CONTROL FOR DUCTWORK AIRFLOW VELOCITIES

MAXIMUM IN-DUCT AIRFLOW VELOCITIES (FPM)	NOISE CRITERIA (NC)				
	45	40	35	30	25
RISER	2000	2000	2000	2000	-
MAIN BRANCH ABOVE SUSPENDED CEILING	2000	1800	1500	1300	-
MAIN BRANCH IN EXPOSED CONFIGURATION	1600	1500	1200	1100	-
DUCT WITHIN 10 TO 20 FEET OF SUPPLY DIFFUSER/RETURN GRILLE	SUPPLY 900	850	800	700	550
	RETURN 1000	950	900	800	650
DUCT WITHIN 0 TO 10 FEET OF SUPPLY DIFFUSER/RETURN GRILLE	SUPPLY 700	650	600	500	450
	RETURN 800	750	700	600	500
SUPPLY DIFFUSER - FREE VELOCITY	550	500	450	400	300
RETURN GRILLE - FREE VELOCITY	650	600	550	500	400
OPEN RETURN DUCT ABOVE CEILING	850	750	650	-	-
OPEN RETURN DUCT EXPOSED	800	700	600	-	-

OUTSIDE AIR SCHEDULE (PER 2019 CMC 403.2.1 & TITLE 24 120.1 & 150.2)

ROOM NAME	FLOOR AREA (SF)	CMC METHOD					T24 AREA METHOD				T24 PEOPLE METHOD				MAX. OF ALL METHODS (CFM)	OSA CFM PROVIDED	SERVED BY
		CFM PER SF Ra	CFM PER OCC. Rp	OCCUPANCY DENSITY (SF/OCC.)	NO. OF OCC. Pr	MIN. OUTDOOR AIRFLOW Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Vbz	CFM PER SF	MIN. OSA CFM	NO. OF OCCUPANTS	CFM PER OCCUPANT	MIN. OSA CFM				
CONFERENCE	396	0.06	5	25.0	15.8	103.0	0.80	129	0.5	198	15.8	15	238	238	240	FCU-2	
KITCHEN / BREAK	308	0.06	5	40.0	7.7	57.0	0.80	71	0.5	154	7.7	15	116	154	160	FCU-3	
FLEX CLASSROOM	709	0.06	5	20.0	35.5	219.8	0.80	275	0.5	355	35.5	15	532	532	540	FCU-4	
STUDIO	709	0.06	5	100.0	7.1	78.0	0.80	97	0.5	355	7.1	15	106	355	360	FCU-5	
PROGRAM SUPPORT	536	0.06	5	100.0	8.4	92.0	0.80	115	0.15	125	8.4	15	125	125	130	FCU-6	
PROGRAM SUPPORT	701	0.06	5	100.0	7.0	77.1	0.80	96	0.15	105	7.0	15	105	105	120	FCU-7	
PROGRAM SUPPORT	632	0.06	5	100.0	6.3	69.5	0.80	87	0.15	95	6.3	15	95	95	100	FCU-8	
OFFICE 116	100	0.06	5	100.0	1.0	11.0	0.80	14	0.15	15	1.0	15	15	15			
OFFICE 117	100	0.06	5	100.0	1.0	11.0	0.80	14	0.15	15	1.0	15	15	15	60	FCU-9	
OFFICE 118	100	0.06	5	100.0	1.0	11.0	0.80	14	0.15	15	1.0	15	15	15			
SMALL CONFERENCE	180	0.06	5	30.0	6.0	40.8	0.80	51	0.5	90	6.0	15	90	90	120	FCU-10	
CUST.	73	0.06	5	100.0	0.7	8.0	0.80	10	0.15	11	0.7	15	11	11			
CORRIDOR 104	1,066	0.06	5	200.0	5.3	90.6	0.80	113	0.15	160	5.3	15	80	160	180	FCU-1	
LOBBY	104	0.06	5	100.0	1.0	11.4	0.80	14	0.5	52	1.0	15	16	52			
L1 RESTROOMS	459	0.06	5	200.0	2.3	39.0	0.80	49	0.15	69	2.3	15	34	69	130	FCU-11	
L2 RESTROOMS	541	0.06	5	200.0	2.7	46.0	0.80	57	0.15	81	2.7	15	41	81	110	FCU-12	
MAIN TELECOM	149	0.06	5	200.0	0.7	12.7	0.80	16	0.15	22	0.7	15	11	22	40	SF-1	
TENANT SPACE	626	0.06	5	100.0	6.3	68.9	0.80	86	0.15	94	6.3	15	94	94	100	FCU-13	
ELECTRICAL 112	128	0.06	5	200.0	0.6	10.7	0.80	13	0.15	19	0.6	15	9	19	30	WALL LOUVER	
ELEV. MECH. RM	91	0.06	5	200.0	0.4	6.9	0.80	9	0.15	12	0.4	15	6	12	30	WALL LOUVER	
L2 TENANT SPACE	6,862	0.06	5	60.0	114.2	982.1	0.80	1,228	0.15	1,028	114.2	15	1,713	1,713	2,000	SF-2	

REFRIGERANT CONCENTRATION CALCS (PER CMC-2019 & ASHRAE STANDARD 15 & 34-2016)

SYSTEM NO.	SYSTEM REFRIGERANT TYPE	REFRIG. SAFETY GROUP	FCU NO. (FOR SMALLEST SPACE)	BUILDING SPACE NAME (FOR SMALLEST SPACE)	FLOOR AREA (SQ. FT.)	FLOOR TO SLAB OR CEILING HEIGHT (FT.)	SPACE VOLUME (CU. FT.)	TOTAL REFRIGERANT CHARGE (LBS)	AS DESIGNED REFRIGERANT CONCENTRATION (LBS/1000 FT3)	ALLOWABLE REFRIGERANT CONCENTRATION LIMIT (LBS/1000 FT3)	NOTES	COMPLIES (Y/N)
ODU-1	R-410A	A1	FCU-10	CONFERENCE 115 & CUST 114	253	9.0	2,277	50.0	22.0	26	1.2	Y
ODU-2	R-410A	A1	FCU-9	OFFICE 116, 117, 118	300	9.0	2,700	50.0	18.5	26	1.2	Y
ODU-3	R-410A	A1	FCU-11	RESTROOMS	459	9.0	4,131	32.0	7.7	26	1.2	Y
CU-1	R-410A	A1	ACU-1	ELEV. MECH. RM	81	9.0	729	7.0	9.6	26	2	Y
CU-2	R-410A	A1	ACU-2	MAIN TELECOM	149	9.0	1,341	7.0	5.2	26	2	Y

NOTES:
 1. ROOMS ARE COMBINED THROUGH DUCTED FAN COIL UNIT. REFER TO PLAN FOR LAYOUT.
 2. THE TOTAL REFRIGERANT CHARGE INCLUDES AN ADDITIONAL 15% SAFETY FACTOR ON THE DESIGN VALUES.

FCU MIXED AIR TEMPERATURE CALCULATION

UNIT NO.	AIRFLOW		SUMMER				WINTER				NOTES
	TOTAL SA CFM	OSA CFM	OSA (°F)	ROOM AIR (°F)	MIXED AIR (°F)	OSA (°F)	ROOM AIR (°F)	MIXED AIR (°F)			
FCU-1	1,130	180	90	72	74.9	30	70	63.6	1		
FCU-2	740	260	90	72	77.8	30	70	67.0	1		
FCU-3	740	160	90	72	75.9	30	70	61.4	1		
FCU-4	1,375	580	90	72	79.1	30	70	64.3	1		
FCU-5	1,375	380	90	72	76.7	30	70	65.1	1		
FCU-6	1,375	130	90	72	73.7	30	70	66.2	1		
FCU-7	1,130	130	90	72	73.9	30	70	65.8	1		
FCU-8	1,130	100	90	72	73.6	30	70	66.5	1		
FCU-9	335	60	90	72	75.2	30	70	62.8	1		
FCU-10	335	130	90	72	76.4	30	70	65.7	1		
FCU-11	740	130	90	72	75.2	30	70	63.0	1		
FCU-12	740	110	90	72	74.7	30	70	64.1	1		

NOTES:
 1. ONLY FOR REFERENCE AND ENGINEERING CHECKS. REFER TO FCU SCHEDULES.



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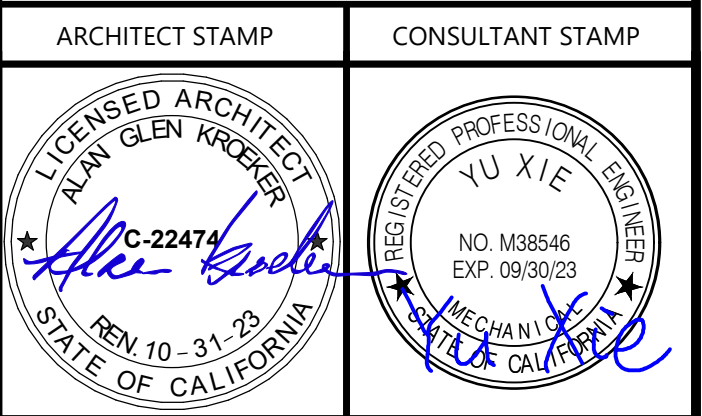
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FIRE PROTECTION ENGINEER
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 TEL (805) 541-2527

FIRE ALARM ENGINEER
 DEEP BLUE INTEGRATION INC.
 3442 EMPRESA DR. SUITE C
 SAN LUIS OBISPO, CA 93401
 TEL (888) 600-0324



NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	MS COMMENT REVISION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
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CAL POLY TECH
PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA

SHEET TITLE
MECHANICAL SCHEDULES

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
M-602
 DATE: APRIL 11, 2023



CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.
Approved by: 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shufelt



26535 SUMMIT CIRCLE
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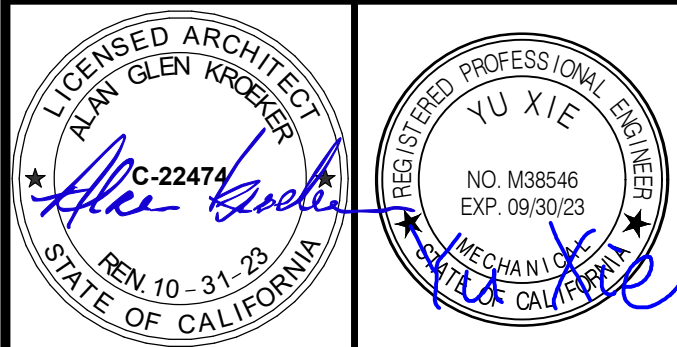
STRUCTURAL ENGINEER
195X STRUCTURAL DIVISION
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ARCHITECT STAMP CONSULTANT STAMP



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San Luis Obispo, CA

SHEET TITLE

MECHANICAL CONTROLS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

M-701

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

SUPPLY FAN - POINT LIST

POINT NAME	HARDWARE POINTS					SOFTWARE POINTS			SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	TREND	ALARM		
SUPPLY FAN VFD START/STOP					X			X	X	
SUPPLY FAN VFD STATUS/FAULT				X				X	X	
SUPPLY FAN VFD SPEED	X	X						X	X	
SUPPLY FAN VFD FREQ. FEEDBACK					X			X	X	
SUPPLY FAN VFD CURRENT	X				X			X	X	
SUPPLY FAN VFD POWER					X			X	X	
SUPPLY FAN START/STOP				X				X	X	
SUPPLY FAN FAILURE					X			X	X	
AIRFLOW MEASURING STATION	X	X	2	3	0			X	X	
SUB-TOTALS	3	1	2	2	3	0		9	3	
TOTAL									15	23

VRF SPLIT SYSTEM - POINT LIST

POINT NAME	HARDWARE POINTS					SOFTWARE POINTS			SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	TREND	ALARM		
VRF START/STOP					X			X	X	
ZONE TEMPERATURE	X				X			X	X	
COOLING SETPOINT					X			X	X	
HEATING SETPOINT					X			X	X	
VRF OPERATION MODE					X			X	X	
VRF FAN SPEED					X			X	X	
FILTER SIGN RESET					X			X	X	
FILTER SIGN					X			X	X	
VRF FAULT					X			X	X	
WATER DETECTED					X			X	X	
CONDENSATE PAN FULL					X			X	X	
SUB-TOTALS	1	0	0	0	10	0		10	4	
TOTAL									24	28

SEQUENCE OF OPERATION - VRF SYSTEM

THE VRF SYSTEM HAS THE FOLLOWING FEATURES:

- MANUFACTURE CONTROLS
- BMS MONITORING, SCHEDULING AND SETPOINT CONTROL

RUN CONDITIONS - SCHEDULED

THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE AND MAINTAIN THE FOLLOWING MODES:

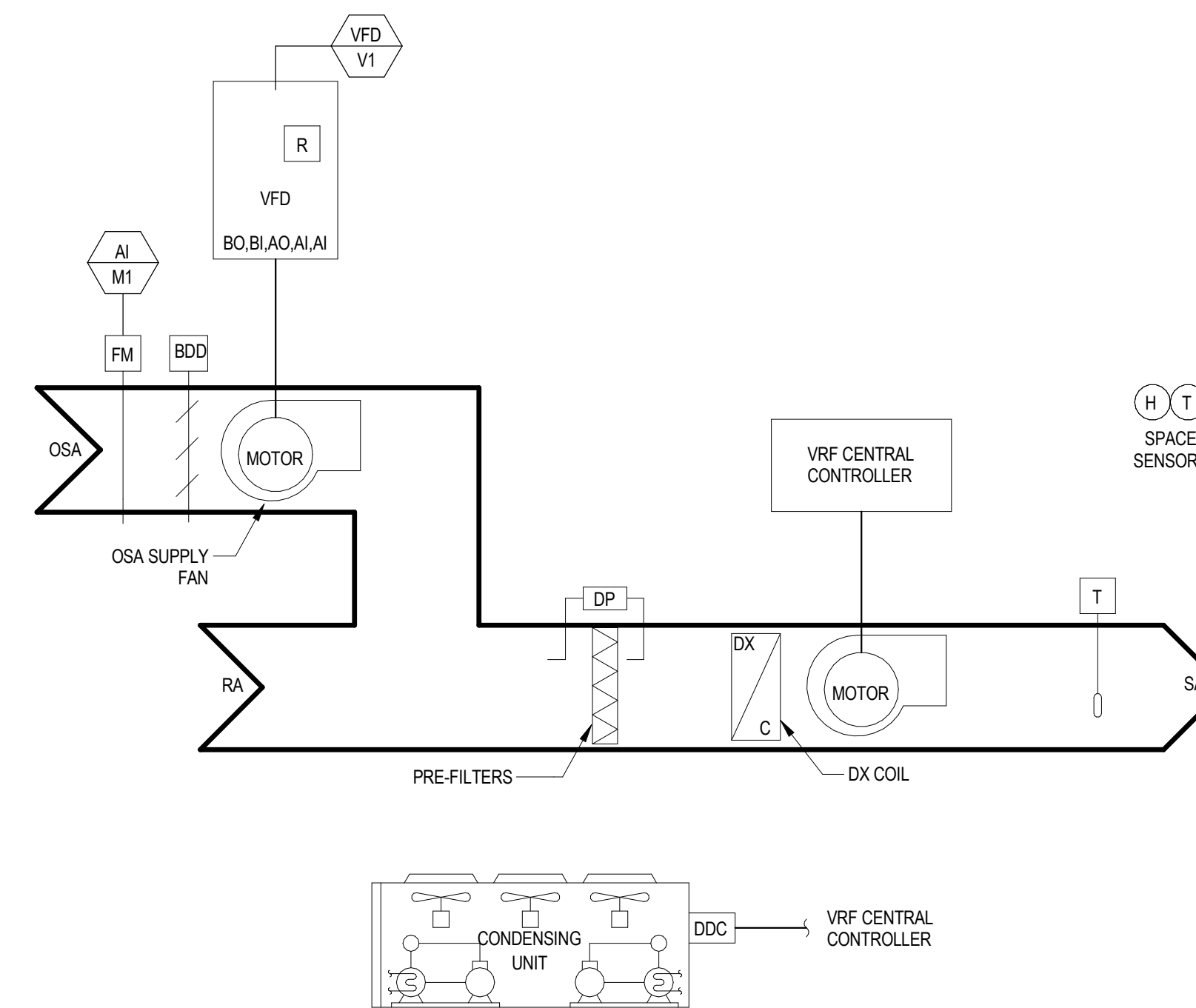
- OCCUPIED MODE TEMPERATURE:
 - COOLING SETPOINT -78°F
 - HEATING SETPOINT -68°F
- UNOCCUPIED MODE TEMPERATURE:
 - COOLING SETPOINT -80°F
 - HEATING SETPOINT -55°F

SCHEDULE:

- THE BAS SHALL ENABLE AND DISABLE THE UNIT BASED ON AN OPERATOR-DEFINED SCHEDULE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- UNIT ALARM: THE BAS RECEIVES AN ALARM SIGNAL FROM THE UNIT.



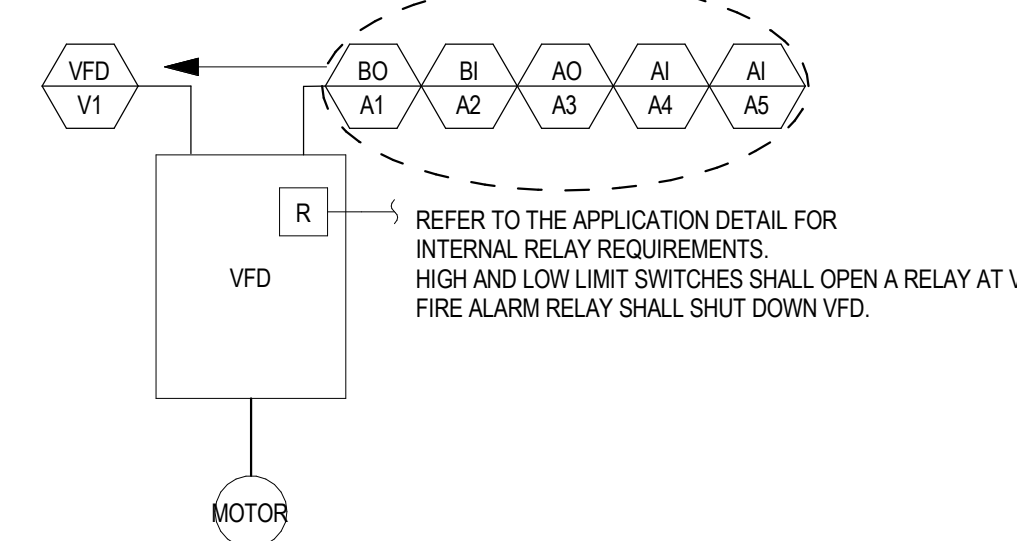
VRF SYSTEM CONTROL NOTES:

- THE VRF POINT LIST IS A GENERAL APPROACH FOR INTEGRATION TO 3RD PARTY CONTROLLERS AND SYSTEMS. THE GENERAL INTENT IS TO MAINTAIN AS MUCH REMOTE CONTROL AS THE SYSTEM WILL ALLOW, HOWEVER THE FINAL POINT LIST SHALL BE BASED ON THE SELECTED MANUFACTURER.
- THE CONTRACTOR SHALL VERIFY COMPATIBILITY OF OWNER REQUIRED BUTTON TEMPERATURE SENSOR WITH THE VRF MANUFACTURER AS MANY REQUIRE DIFFERENT RESISTANCE VALUES.
- VRF SYSTEM SHALL CONNECT WITH THE BMS VIA ONE INTERFACE LOCATED IN THE ELECTRICAL ROOM AND PROVIDED BY THE VRF MANUFACTURER.

VRF SYSTEM CONTROLS

NTS

CONTROL POINTS NOTE:
THESE 5 POINTS ARE TYPICAL FOR ALL VFD'S, AND ARE COMBINED INTO A SINGLE "VFD" CONTROL SYMBOL ON THE APPLICATION DETAILS FOR EQUIPMENT



VFD SET-UP NOTES:

- CONTROLS CONTRACTOR TO WORK WITH VFD START-UP TECHNICIAN TO PROPERLY SET-UP VFD VARIABLES FOR THE MOTOR APPLICATION - PUMP, FAN, ETC.
- CONTROL CONTRACTOR TO DOCUMENT THE VFD SET-UP PASSWORD.
- THE MINIMUM OPERATING SPEED FOR THE VFD SHALL BE SET TO THE MIN SPEED RATING OF THE MOTOR - NOT SOME ARBITRARY VALUE LIKE 15HZ OR 20HZ MINIMUM SPEED.
- BAS SHALL SET 0% SPEED EQUAL TO 0HZ. DO NOT SET 0% TO THE VFD HARD-CODED MINIMUM HZ.
- BAS SHALL SET 0% SPEED INPUT AND OPERATING SPEED OUTPUT SHALL BE 0-10V, NOT 4-20mA. THIS ALLOWS THE CONTROL VOLTAGE TO DIRECTLY RELATE TO THE REFERENCE SPEED %.
- RELEASE THE 60HZ UPPER LIMIT ON VFD'S WHERE THE NORMAL OPERATING RANGE (AFTER TAB) IS ABOVE 50HZ.

ADJUSTABLE FREQUENCY DRIVE - CONTROL POINT LIST

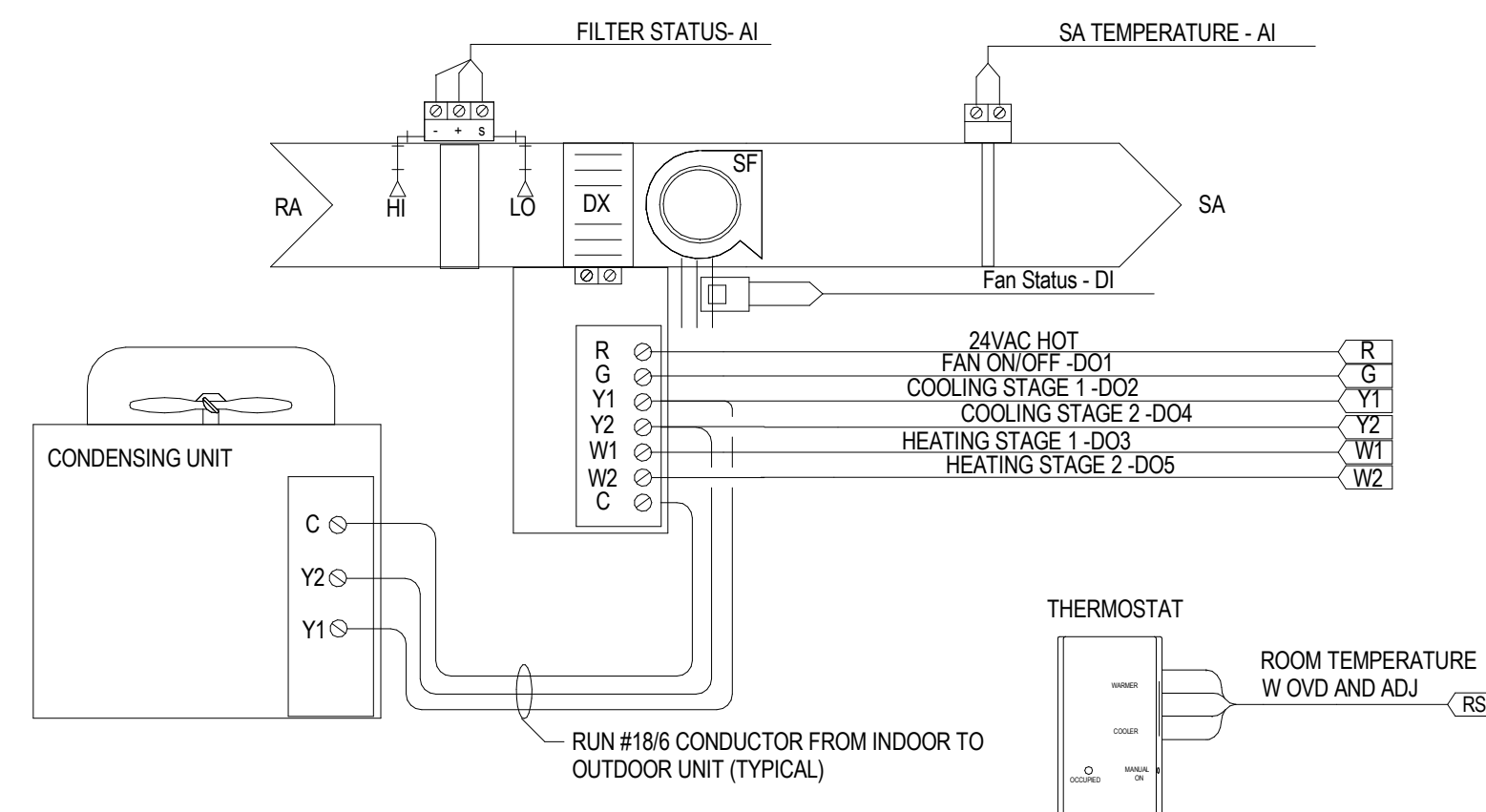
POINT DESIGNATION	DEVICE OR POINT DESCRIPTION	CONTROLLED BY
A1	VFD - START/STOP TURNS ON VFD WHEN IN AUTO MODE	
A2	VFD - STATUS INPUT TO BAS FOR INTERNAL VFD STATUS AND ALARM	
A3	VFD - CONTROL SPEED OUTPUT FROM BAS IN 0-10v (0%-100%) SPEED	REMOTE SENSOR
A4	VFD - SPEED FEEDBACK INPUT TO BAS TO CONFIRM ACTUAL SPEED	
A5	VFD - LOAD FEEDBACK (kW) INPUT TO BAS TO MONITOR THE MOTOR LOAD	

ALTERNATE CONTROLS:

- IF THE VFD HAS WEB-ENABLED ETHERNET COMMUNICATION PORT, THEN THAT SHALL BE THE COMMUNICATION PATHWAY.
- SECURE MODBUS, BACNET OR EQUIVALENT INTERFACE FROM VFD MANUFACTURER AND PROVIDE TYPICAL GRAPHICAL INTERFACE TO VFD.

VFD CONTROL SCHEMATIC

NTS



SEQUENCE OF OPERATION

RUN CONDITIONS - SCHEDULED
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 74°F (ADJ.) COOLING SETPOINT.
 - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
 - A 85°F (ADJ.) COOLING SETPOINT.
 - A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN: THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

HEATING AND COOLING - 2 COMPRESSOR STAGE:
THE CONTROLLER WILL MEASURE THE ZONE TEMPERATURE AND CYCLE THE COMPRESSOR TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THERE WILL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE WILL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE COMPRESSOR WILL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.
THE HEATING WILL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.)
- AND THE FAN IS ON
- AND THE REVERSING VALVE IS IN HEAT MODE

THE COOLING WILL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 80°F (ADJ.)
- AND THE FAN IS ON
- AND THE REVERSING VALVE IS IN COOL MODE

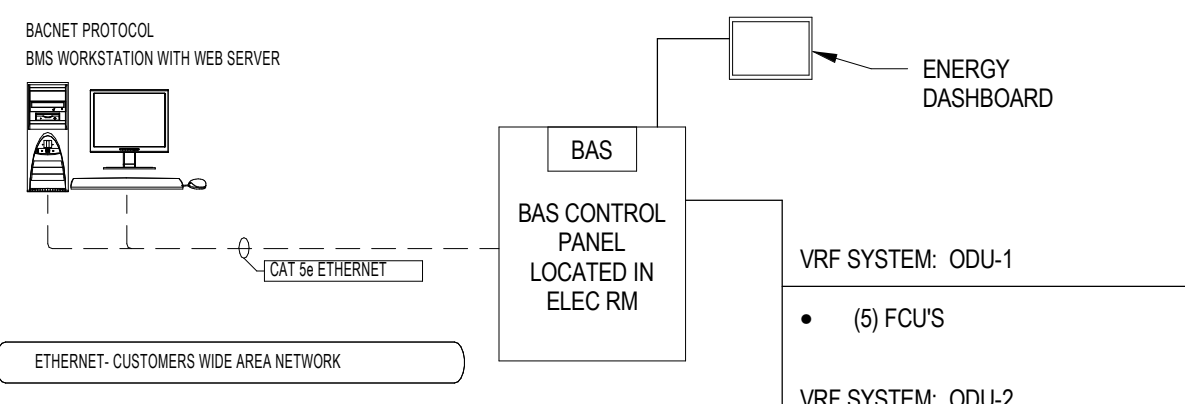
ON MODE CHANGE, THE COMPRESSOR WILL BE DISABLED AND REMAIN OFF UNTIL AFTER THE REVERSING VALVE HAS CHANGED POSITION.
ALARMS WILL BE PROVIDED AS FOLLOWS:
- COMPRESSOR 1 RUNTIME EXCEEDED: COMPRESSOR 1 RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)
- COMPRESSOR 2 RUNTIME EXCEEDED: COMPRESSOR 2 RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.)
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.)

NOTE:
SPLIT SYSTEM SHALL BE STANDALONE CONTROLS BY THE ROOM THERMOSTAT.
THE UNIT SHALL BE TIED INTO BAS FOR MONITOR AND ALARM ONLY.

SPLIT SYSTEM CONTROLS

NTS



VRF SYSTEM - ODU-1

- (5) FCUS

VRF SYSTEM - ODU-2

- (4) FCUS

VRF SYSTEM - ODU-3

- (3) FCUS

(2) SUPPLY FANS (SF-1, SF-2) WITH OSA FLOW STATION (AMS-1, AMS-2)

(3) EXHAUST FANS (GEF-1, EF-1, EF-2)

FUTURE TENANT VRF / SPLIT SYSTEMS

ELECTRICAL

- METERS
REFER TO ELECTRICAL PLANS FOR EXACT QUANTITY AND DETAILS.

PLUMBING

- GAS METERS
- WATER METERS
REFER TO PLUMBING PLANS FOR EXACT QUANTITY AND DETAILS.

SOLAR PANELS

LIGHTING BACNET HUB

BAS NETWORK RISER DIAGRAM

NTS

LEGEND

- BACNET M/STP
- BACNET IP (ETHERNET)

GENERAL NOTES:

THE WIRING ROUTING IS ONLY DIAGRAMMATIC TO SHOW DESIGN INTENT. CONTROL CONTRACTOR SHALL VERIFY AND PROVIDE FINAL RISER DIAGRAM IN THE CONTROL SHOP DRAWINGS. THE CONTROL SHOP DRAWINGS SHALL SHOW ALL CONTROL DEVICES CONNECTED IN BAS NETWORK RISER DIAGRAM.

ALL METERING REQUIREMENT SHALL BE PER CAL POLY CAMPUS STANDARD SPECIFICATIONS.
THE BAS CONTROLLER SHALL MONITOR THE METER FOR CONSUMPTION ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE BAS SYSTEM AT ALL TIMES.
ALARM SHALL BE GENERATED AS FOLLOWS:

- METER FAILURE: SENSOR READING INDICATES A LOSS OF PULSE OUTPUT FROM THE METER.
- PEAK DEMAND HISTORY: THE CONTROLLER SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE PEAK READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.
- USAGE HISTORY: THE CONTROLLER SHALL MONITOR AND RECORD METER READINGS SO AS TO PROVIDE A CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

ELECTRIC METER - POINT LIST

POINT NAME	HARDWARE POINTS					SOFTWARE POINTS			SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	TREND	ALARM		
ELECTRIC METER INPUT					X			X	X	
DEMAND					X			X	X	
DAILY CONSUMPTION					X			X	X	
MONTHLY CONSUMPTION					X			X	X	
YEARLY CONSUMPTION					X			X	X	
VOLTAGE - PHASE A					X			X	X	
VOLTAGE - PHASE B					X			X	X	
VOLTAGE - PHASE C					X			X	X	
CURRENT - PHASE A					X			X	X	
CURRENT - PHASE B					X			X	X	
CURRENT - PHASE C					X			X	X	
FREQUENCY (HZ)					X			X	X	
POWER FACTOR					X			X	X	
TOTAL REACTIVE POWER					X			X	X	
TOTAL APPARENT POWER					X			X	X	
METER FAILURE					X			X	X	
SUB-TOTALS	0	0	0	0	11	0		15	1	
TOTAL									27	27

ENERGY / GAS / WATER METER - POINT LIST

POINT NAME	HARDWARE POINTS					SOFTWARE POINTS			SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	TREND	ALARM		
FLOW RATE	X				X			X	X	
SUPPLY TEMPERATURE (ENERGY ONLY)	X				X			X	X	
RETURN TEMPERATURE (ENERGY ONLY)	X				X			X	X	
DEMAND					X			X	X	
DAILY CONSUMPTION					X			X	X	
MONTHLY CONSUMPTION					X			X	X	
YEARLY CONSUMPTION					X			X	X	
METER FAILURE					X			X	X	
SUB-TOTALS	3	0	0	0	1	0		8	1	
TOTAL									10	13

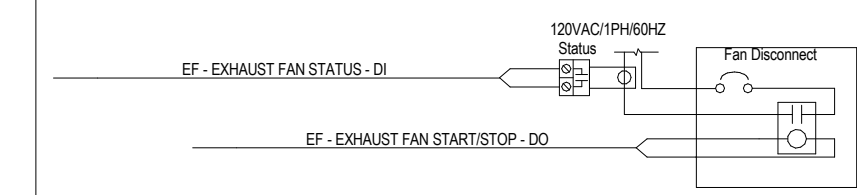
UTILITY METER CONTROLS

NTS

CONTROL POINT LIST

POINT DESIGNATION	DESCRIPTION	CONTROLLED BY
ES1	EXHAUST FAN STARTER - START/STOP	
ES2	EXHAUST FAN CURRENT TRANSDUCER	

EF - EXHAUST FAN WIRING DETAIL



EXHAUST FAN - ON/OFF

RUN CONDITIONS - INTERLOCKED:
FAN:
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.
FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
THE EXHAUST FAN(S) SHALL BE CONTROLLED WITH A 7-DAY PROGRAMMABLE TIME CLOCK.

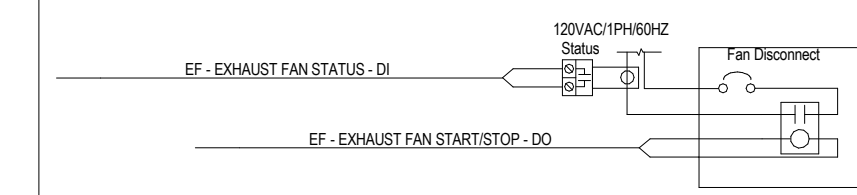
RESTROOM EXHAUST FAN CONTROLS

NTS

CONTROL POINT LIST

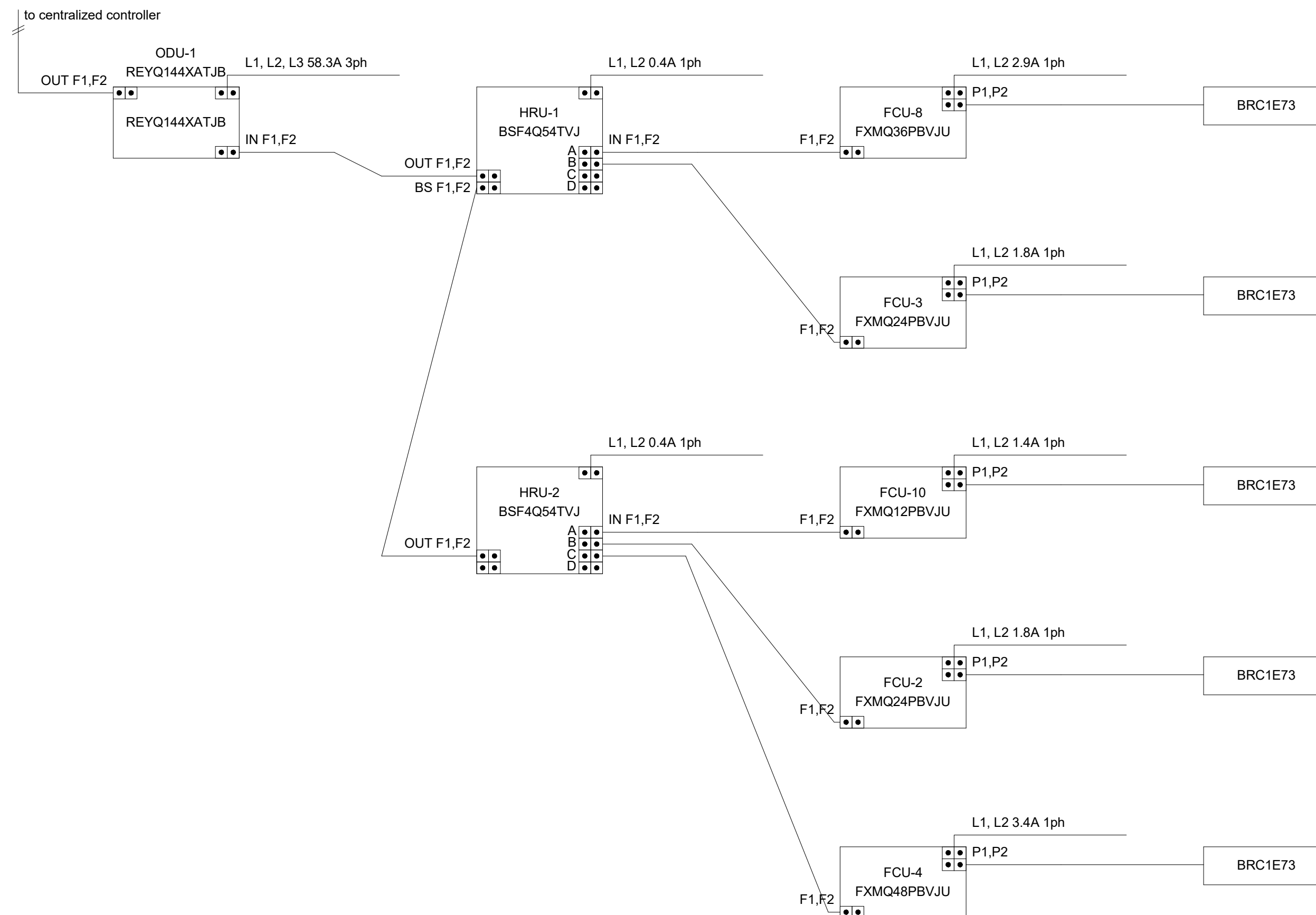
POINT DESIGNATION	DESCRIPTION	CONTROLLED BY
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ES2	EXHAUST FAN CURRENT TRANSDUCER	

EF - EXHAUST FAN WIRING DETAIL

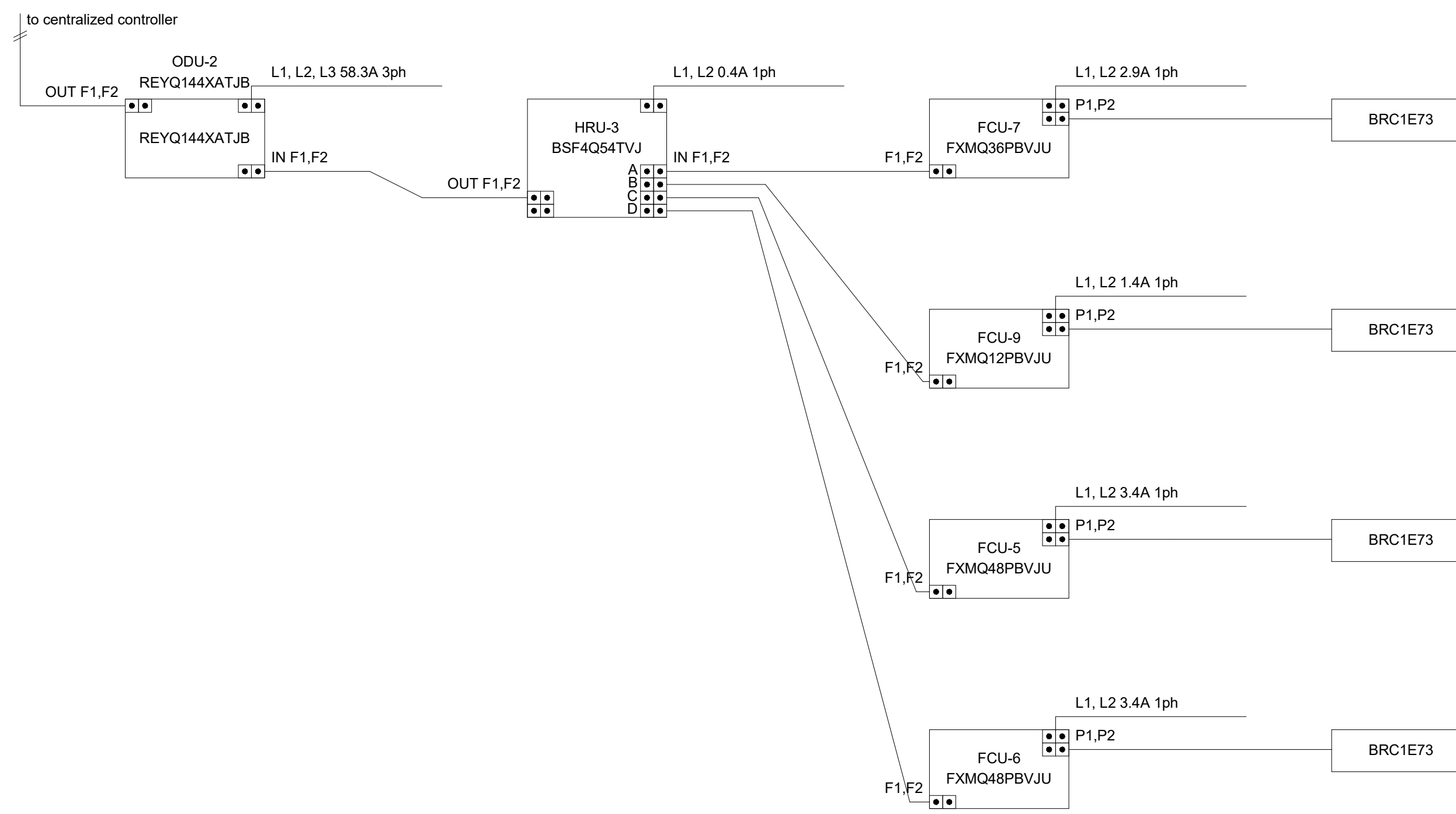


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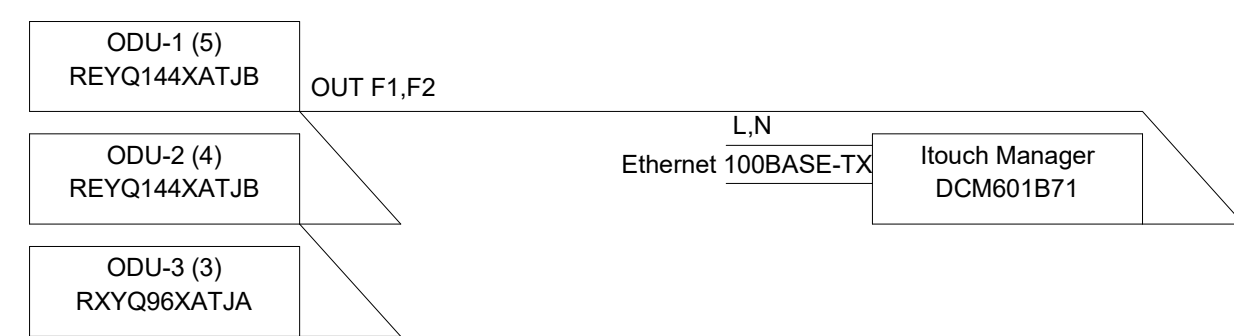
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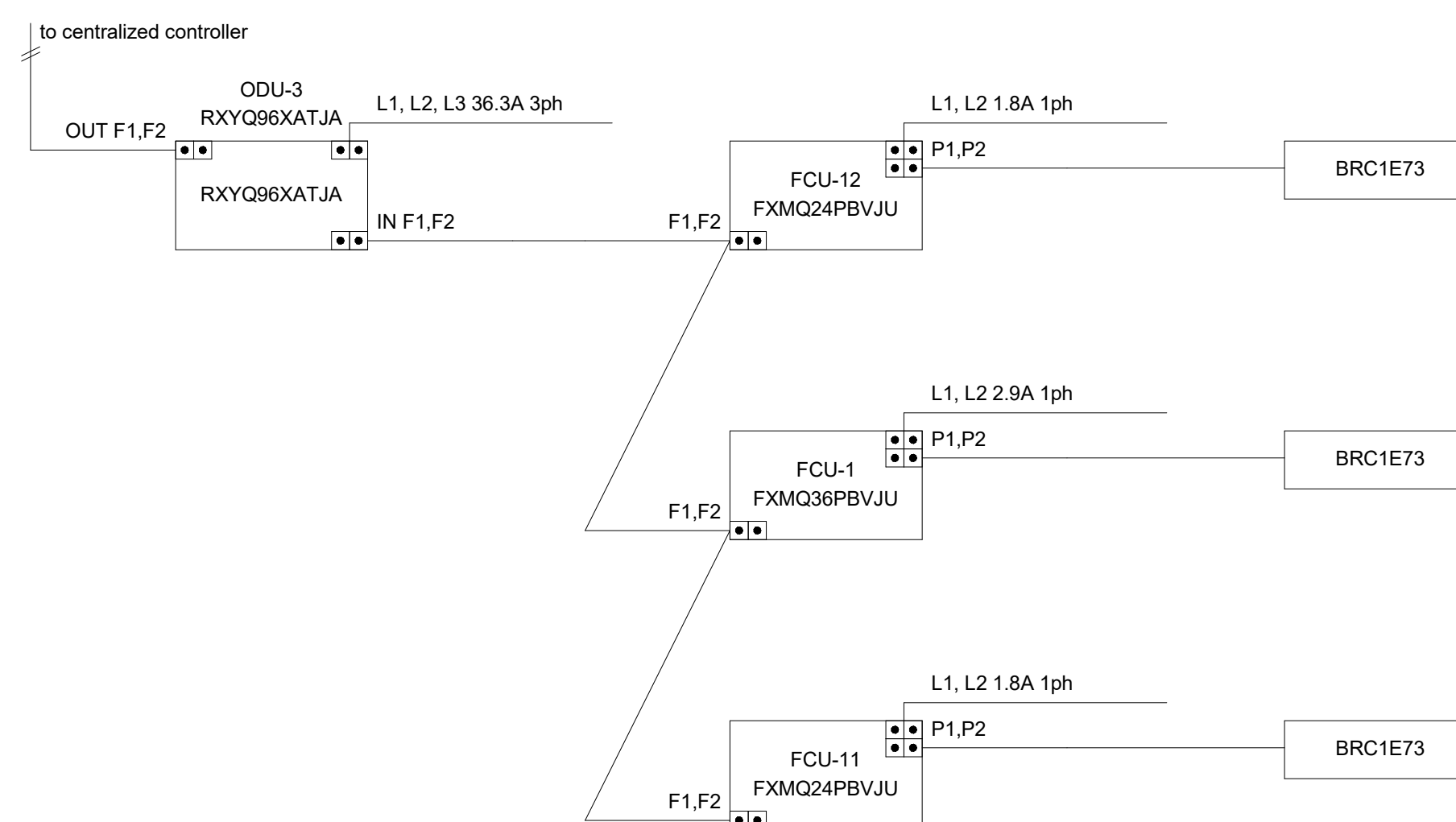
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CONTROL GROUP

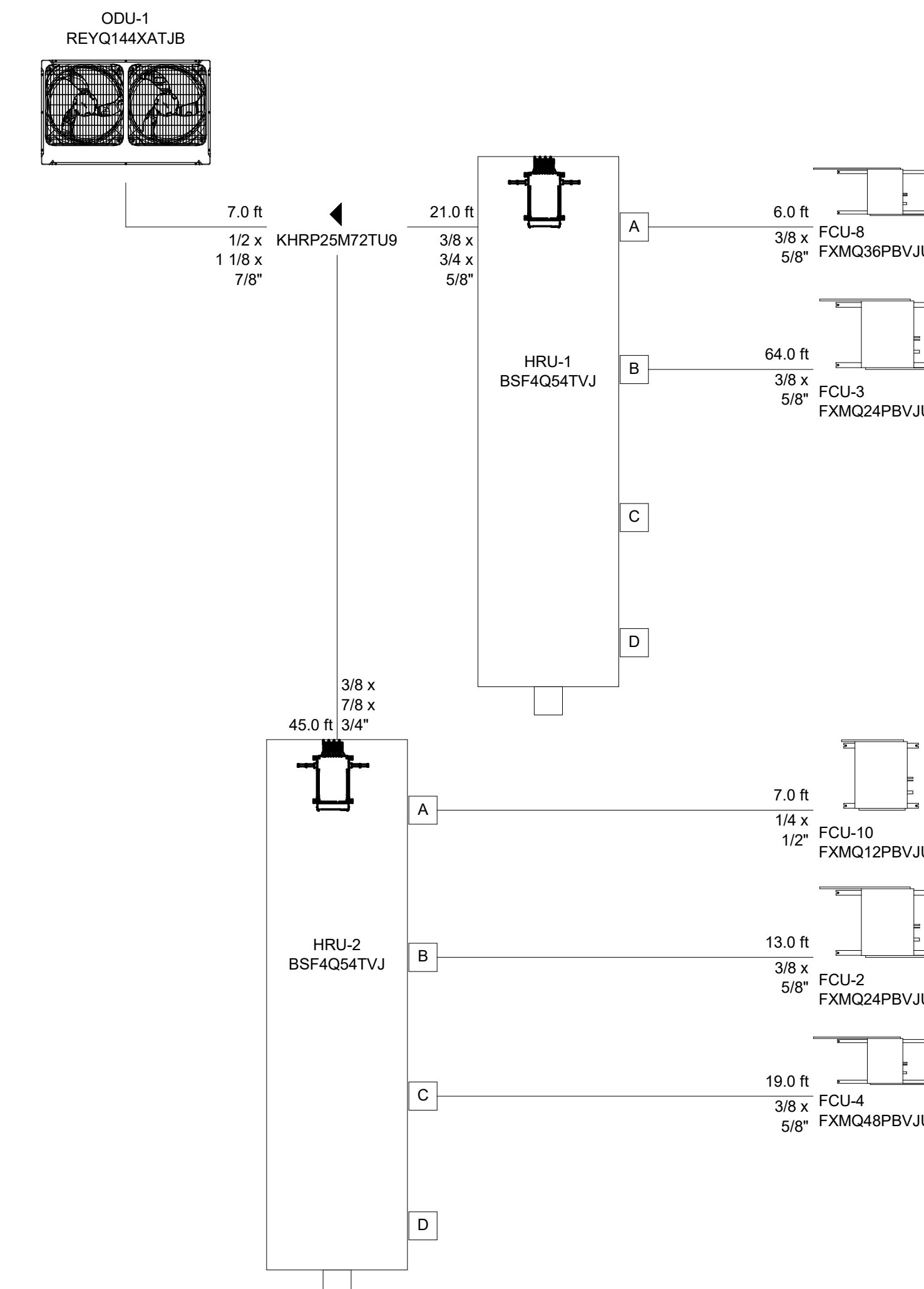


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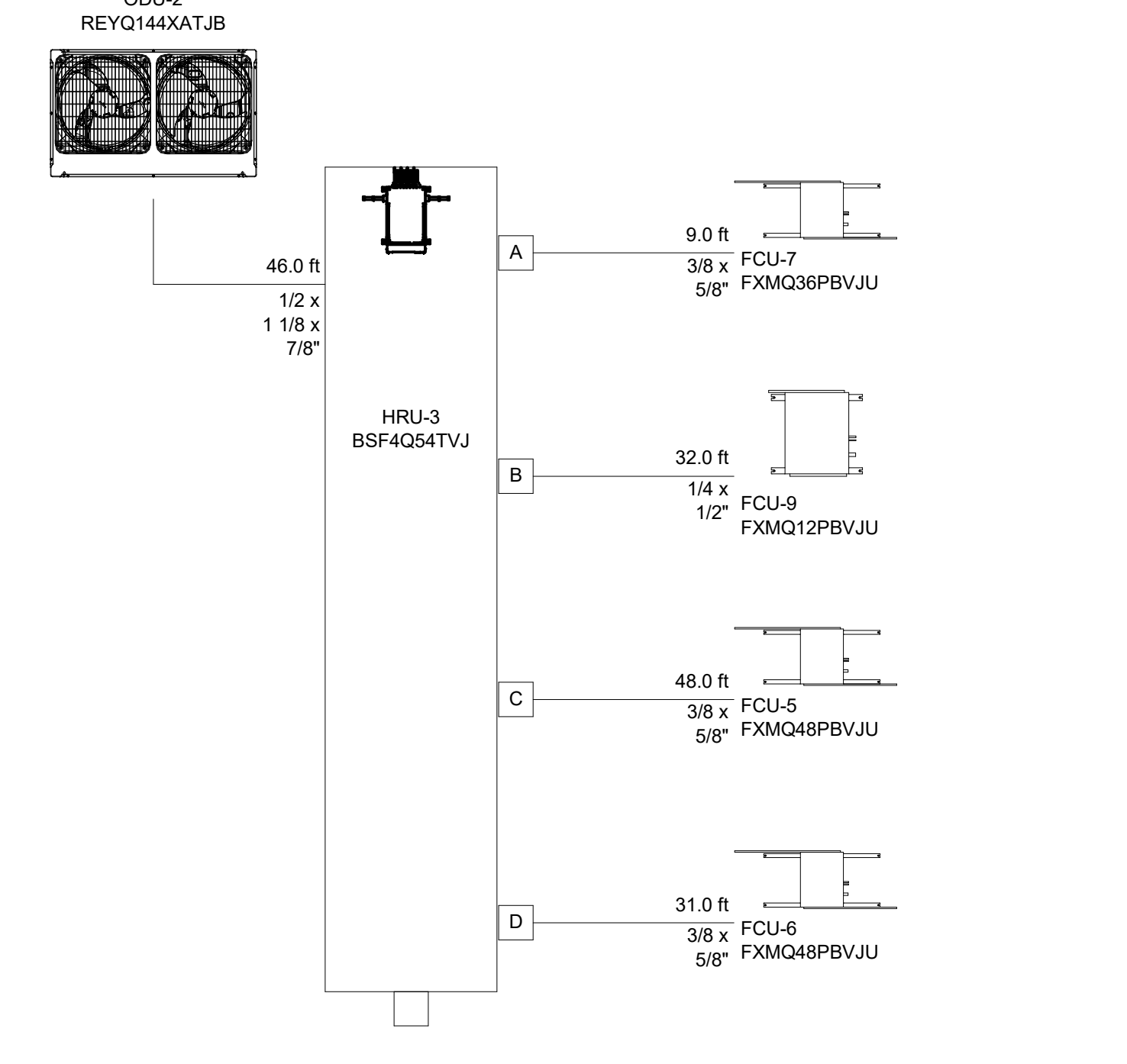


VRF SYSTEM WIRING DIAGRAMS
NTS

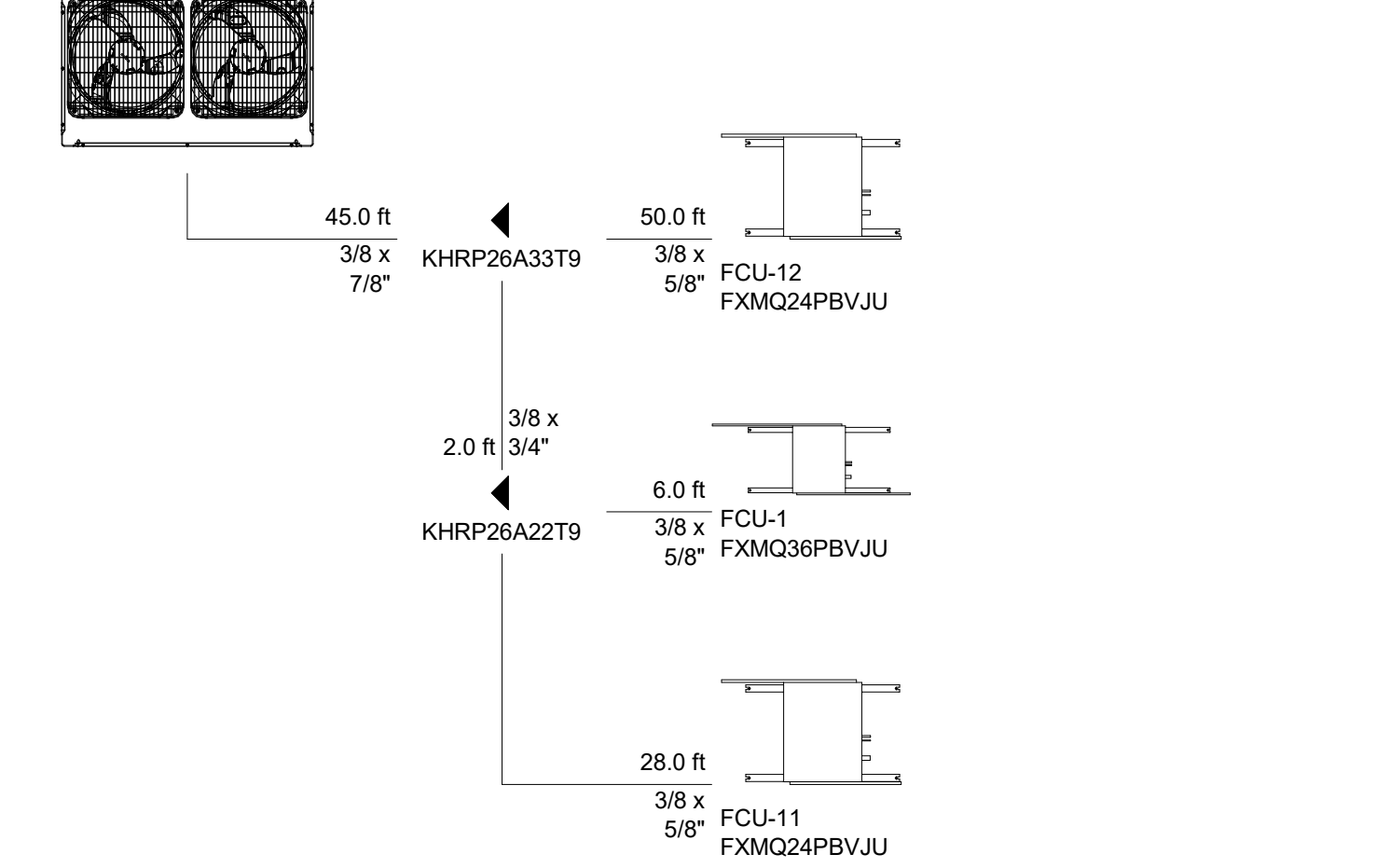
ODU-1



ODU-2



ODU-3



VRF SYSTEM PIPING DIAGRAMS
NTS



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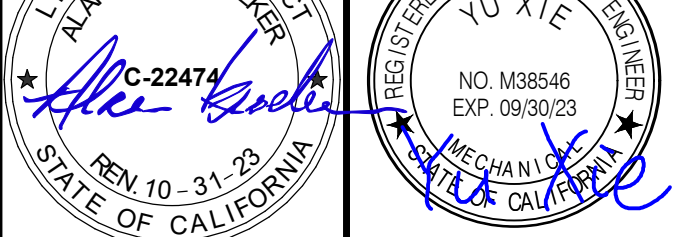
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SHEET TITLE
MECHANICAL
CONTROLS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

M-702

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

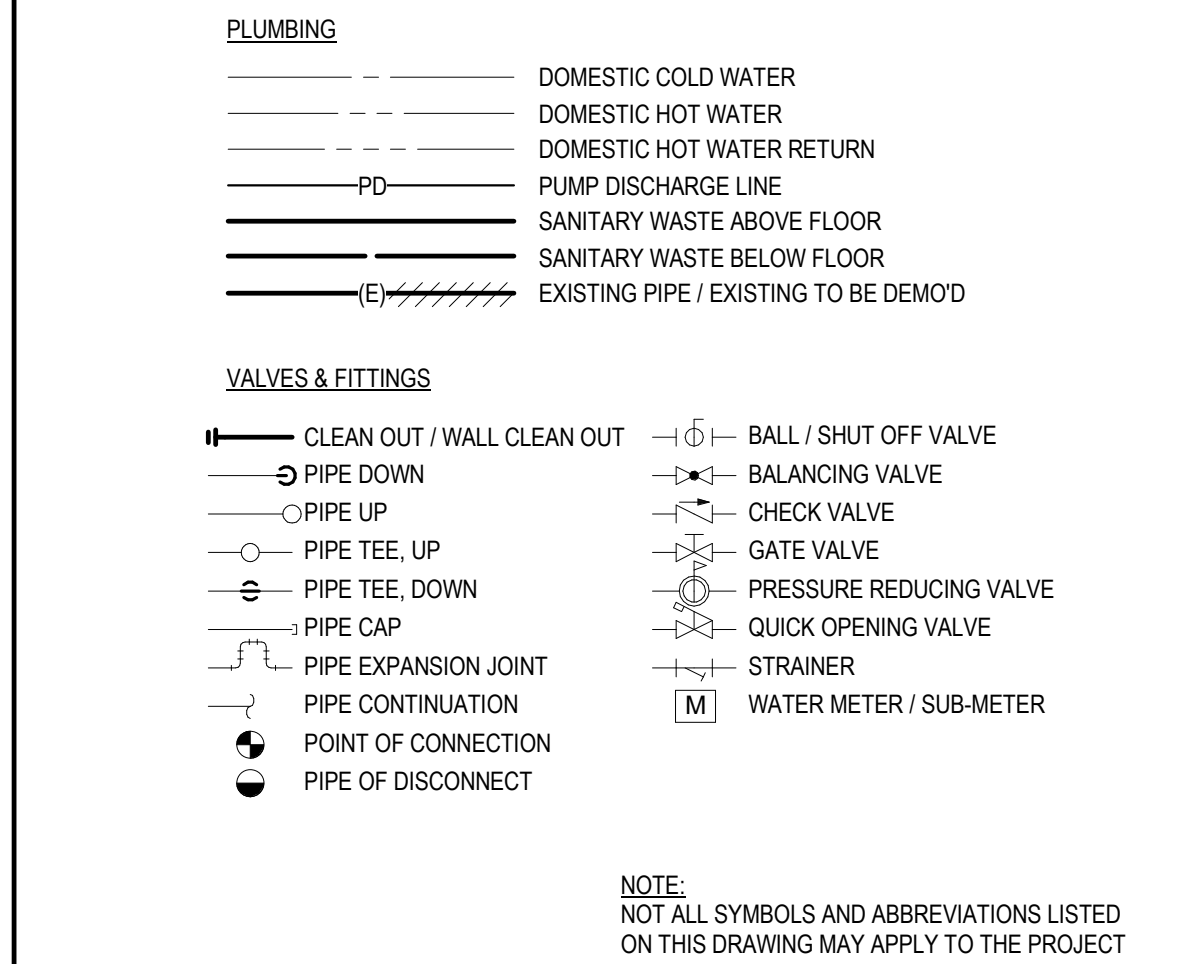
PLUMBING NOTES

1. PROVIDE PIPING, EQUIPMENT, AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS, STANDARDS, AUTHORITY HAVING JURISDICTION REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS, AND WITH CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.
2. COORDINATE INSTALLATION OF PIPING BELOW GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS.
3. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PRIOR TO INSTALLATION.
4. PROVIDE CLEANOUTS FOR SANITARY WASTE AND STORM DRAIN SYSTEMS WHERE SHOWN AND SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE.
5. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.
6. PROVIDE CEILING ACCESS PANELS FOR ALL VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. MAINTAIN FIRE RATINGS WHERE REQUIRED.
7. SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.
8. ALL SEWER / DRAINAGE PIPING BELOW GRADE SHALL BE SLOPED AT 2% (1/4" PER FOOT) UNO.
9. DO NOT RUN ANY PIPES OVER ANY ELECTRICAL PANEL OR SWITCHGEAR. COORDINATE PIPE LOCATIONS TO AVOID ELECTRICAL PANELS.
10. PROVIDE MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCES AROUND ALL PIECES OF EQUIPMENT. PIPING & CONDUIT SHALL NOT INTERFERE WITH REQUIRED ACCESS.
11. EQUIPMENT LAYOUT IS BASED ON EQUIPMENT LISTED IN EQUIPMENT SCHEDULES. ANY OTHER EQUIPMENT USED IS SUBJECT TO MEETING PERFORMANCE REQUIREMENTS OF LISTED EQUIPMENT. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO ASSURE OTHER EQUIPMENT WILL FIT IN AVAILABLE SPACE AND WILL NOT EXCEED WEIGHT AND ELECTRICAL REQUIREMENTS.
12. FLOOR CLEANOUTS SHALL BE FLUSH WITH FINISHED FLOOR AT SEALED CONCRETE / TILE. FIXTURE CLEANOUTS TO BE LOCATED ABOVE FIXTURE FLOOR RIM.
13. REFER TO STRUCTURAL DRAWINGS FOR ALLOWABLE METHODS/LOADS FOR HANGING PIPING FROM STRUCTURAL MEMBERS.
14. SEAL ALL PIPE PENETRATIONS OF WALLS WITH AIRTIGHT SEALANT (FIRE RATED SYSTEM AT RATED WALLS). REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
15. ALL VENTS SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.
16. REFER TO ARCHITECTURAL CODE PLAN FOR AREAS WHERE FIRE PENETRATION MATERIALS ARE REQUIRED.
17. MOUNT HOSE BIBBS @ 36" ABOVE GRADE/FF. UNO.
18. PROVIDE INSULATION FOR PIPES PER CALIFORNIA STATE ENERGY CODE (TITLE 24) AND PER SPECIFICATIONS. IN THE EVENT OF CONFLICTS, PROVIDE MATERIAL WHICH MEETS THE MOST STRINGENT REQUIREMENT.
19. PROVIDE ISOLATION VALVE AT EACH BRANCH CONNECTION TO MAIN (CW AND HW).
20. GRAVITY FLOW WASTE PIPE SIZES SHALL REMAIN AT INDICATED DOWNSTREAM SIZE WHERE SIZES ARE NOT SHOWN.
21. WHERE DOMESTIC COLD AND/OR HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
22. PROVIDE FIRE STOPS ON PIPING TO MAINTAIN RATING OF FIRE RATED WALLS WHERE PENETRATED BY PIPING.
23. WHERE DOMESTIC HW/HWV PIPE SIZES ARE NOT INDICATED, SUPPLY PIPE SIZE SHALL REMAIN LAST INDICATED UPSTREAM SIZE. CIRCULATION PIPE SHALL REMAIN LAST INDICATED DOWNSTREAM SIZE.
24. WHERE INDICATED PIPE SIZE IS NOT COMMERCIALY AVAILABLE, PROVIDE NEXT LARGER AVAILABLE SIZE.
25. PROVIDE WATER HAMMER ARRESTOR (WHA) ON HOT AND COLD WATER BRANCHES THAT SERVE WATER CLOSETS, SINKS, URINALS, WASHING MACHINES, DISHWASHERS, HOSE BIBBS, SHOWERS, TUBS, AND OTHER FIXTURES WITH QUICK-CLOSING VALVES. PLACE WHA WITHIN 6 FEET OF FIXTURE. PROVIDE WITH ACCESS PANEL IF REQUIRED BY LOCAL CODE.
26. PROVIDE MINIMUM 1/8" SLOPE ON ALL CONDENSATE PIPING. CONDENSATE PIPING SHALL BE INSULATED AND JACKETED.
27. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE AN UNDERSTANDING OF THE COMPLETE SCOPE OF WORK PRIOR TO START OF WORK.
28. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DRAWINGS PRIOR TO COMPLETION OF PROJECT FOR REVIEW BY THE ARCHITECT/ENGINEER.
29. IF ANY EQUIPMENT SUBMITTED BY THE CONTRACTOR IS DIFFERENT FROM THAT SPECIFIED, OR REQUIRES CHANGES IN MATERIAL OR LABOR FROM THAT REQUIRED IN THE CONTRACT DOCUMENTS AFFECTING HIS AND/OR OTHER TRADES, SUCH CHANGES SHALL BE SUBMITTED AS SHOP DRAWINGS. SUBMITTAL SHALL INDICATE CREDIT DUE TO OWNER, IF ANY, BECAUSE OF THE CHANGES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ADDITIONS OR CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED MODIFICATION. ALL CHANGED SHALL BE SHOWN ON RECORD AS-BUILT DRAWINGS.
30. SUBMIT SHOP DRAWINGS AND PRODUCT DATA ACCORDING TO SPECIFICATIONS.
31. PROPOSED ADDITION, ALTERNATION OR IMPROVEMENT REQUIRES ALL NON-COMPLIANT FIXTURES TO BE REPLACED WITH WATER CONSERVING PLUMBING FIXTURES. (CIVIL CODE SECTION 1101.5)
32. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE CALIFORNIA PLUMBING CODE.
33. ENSURE THAT THE SHUTOFF OR CONTROL VALVES ARE ACCESSIBLE PER CBC 606. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND SITE VERIFY LAYOUT PROVIDES AND MAINTAINS ACCESS. THE CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATION OF EQUIPMENT AND MATERIALS THAT HAS NOT BEEN SO COORDINATED AND CAUSES CONFLICTS.

ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
ABBR	ABBREVIATIONS	JS	JANITOR SINK
AD	ACCESS DOOR	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AP	ACCESS PANEL	N	NEW
BEL	BELOW	OTCS	OPEN TO CEILING SPACE
BFF	BELOW FINISHED FLOOR	PE	POLYETHYLENE
BOP	BOTTOM OF PIPE	PVC	POLYVINYLCHLORIDE
CFF	CF FOR FUTURE	T&P	TEMPERATURE & PRESSURE
CI	CAST IRON	QTY	QUANTITY
CLG	CEILING	RD	ROOF DRAIN
CW	COLD WATER	REF	REFRIGERATOR
DIA	DIAMETER	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
DF	DRINKING FOUNTAIN	S	SANITARY SEWER
DFU	DRAINAGE FIXTURE UNIT	S O.V.	SHUT-OFF VALVE
DWG	DRAWING	TYP	TYPICAL
(E)	EXISTING	UNO	UNLESS OTHERWISE NOTED
EWC	ELECTRICAL WATER COOLER	UR	URINAL
FOO	FLOOR CLEAN OUT	V	VENT
FOV	FILTERED COLD WATER FLOOR DRAIN	VBF	VENT BELOW FLOOR
FLR	FLOOR	VTR	VENT THRU ROOF
FW	FILTERED DOMESTIC COLD WATER	W	SANITARY WASTE
HS	HAND SINK	WABG	SANITARY WASTE ABOVE GRADE
HW	HOT WATER	WBEG	SANITARY WASTE BELOW GRADE
IAW	IN ACCORDANCE WITH	WC	WATER CLOSET
IS	IN JUST SPACE	WCO	WALL CLEAN OUT
I.E.	INVERT ELEVATION	WHA	WATER HAMMER ARRESTOR
IW	INDIRECT WASTE	WSFU	WATER SUPPLY FIXTURE UNIT

PLUMBING SYMBOLS



APPLICABLE CODES & STANDARDS

1. 2019 CALIFORNIA BUILDING CODE
2. 2019 CALIFORNIA ELECTRICAL CODE
3. 2019 CALIFORNIA MECHANICAL CODE
4. 2019 CALIFORNIA PLUMBING CODE
5. 2019 CALIFORNIA ENERGY CODE
6. 2019 CALIFORNIA GREEN BUILDING CODE
7. 2019 CALIFORNIA FIRE CODE
8. ANSIS/ASME A13.1.1.2
9. CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS

LEAD-FREE NOTE

ALL PLUMBING PIPING/FITTINGS AND PLUMBING FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR DRINKING OR COOKING SHALL BE "LEAD FREE" IN COMPLIANCE WITH AB 1963. CONTRACTOR SHALL PROVIDE CERTIFICATION AS PART OF THE PLUMBING SUBMITTALS THAT ALL PLUMBING PRODUCTS COMPLY WITH AB 1963.

GREEN BUILDING COMPLIANCE

- A. PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN CALIFORNIA GREEN BUILDING STANDARD CODE SECTION 5.303.6.
- B. PER 2019 CALIFORNIA GREEN BUILDING STANDARD CODE SECTION 4.303, PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:
 1. WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH.
 2. URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.
 3. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI.
 4. LAVATORY FAUCETS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.
 5. KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI.

SCOPE OF WORK

PROVIDE DOMESTIC COLD AND HOT WATER, AS WELL AS WASTE AND VENT TO 1ST & 2ND FLOOR CORE RESTROOM AND KITCHEN/TIE PLUMBING FIXTURES. PROVIDE ELECTRIC STORAGE TANK WATER HEATER FOR HOT WATER SUPPLY TO BASE BUILDING PLUMBING FIXTURES. IN ADDITION, PROVIDE FOR FUTURE STUB-OUTS FOR COLD WATER, GAS, WASTE & VENT FOR FUTURE TENANTS.

PIPE SCHEDULE

SERVICE	LOCATION	PIPING MATERIALS					FITTINGS (REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION)
		TYPE 4 COPPER	TYPE L COPPER	TYPE M COPPER	SCHEMATIC BLACK	SCHEMATIC WHITE	
WATER	ABOVE GROUND	●	●	●	●	●	LEAD FREE SOLDERED JOINTS AND FITTINGS
WASTE, STORM DRAIN	ABOVE FLOOR	●	●	●	●	●	LEAD FREE SOLDERED JOINTS AND FITTINGS
VENT	ABOVE FLOOR	●	●	●	●	●	PROVIDE TYLER 2-BAND N-HUB COUPLINGS
CONDENSATE DRAIN	INSIDE	●	●	●	●	●	PROVIDE TYLER 4-BAND N-HUB COUPLINGS
	OUTSIDE	●	●	●	●	●	95-5 SOLDERED FITTINGS

SHEET INDEX

Sheet Number	Sheet Name
P-001	PLUMBING NOTES, ABBREVIATIONS & LEGENDS
P-101	PLUMBING SITE PLAN
P-201	LEVEL 01 - PLUMBING PLAN
P-202	LEVEL 02 - PLUMBING PLAN
P-203	ROOF - PLUMBING PLAN
P-401	ENLARGED PLUMBING PLANS
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
P-701	PLUMBING RISER DIAGRAMS
P-702	PLUMBING RISER DIAGRAMS



CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY

Approved by: *DS* 07/18/2023
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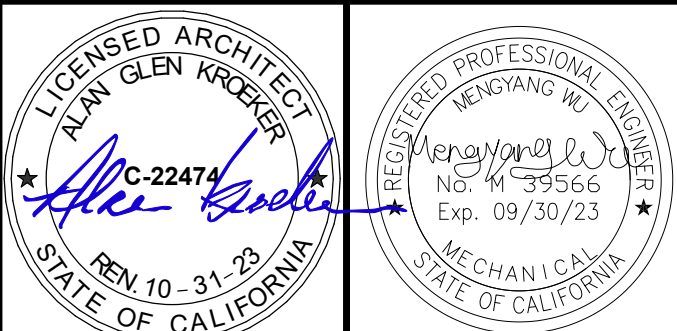
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SHEET TITLE
PLUMBING NOTES, ABBREVIATIONS & LEGENDS

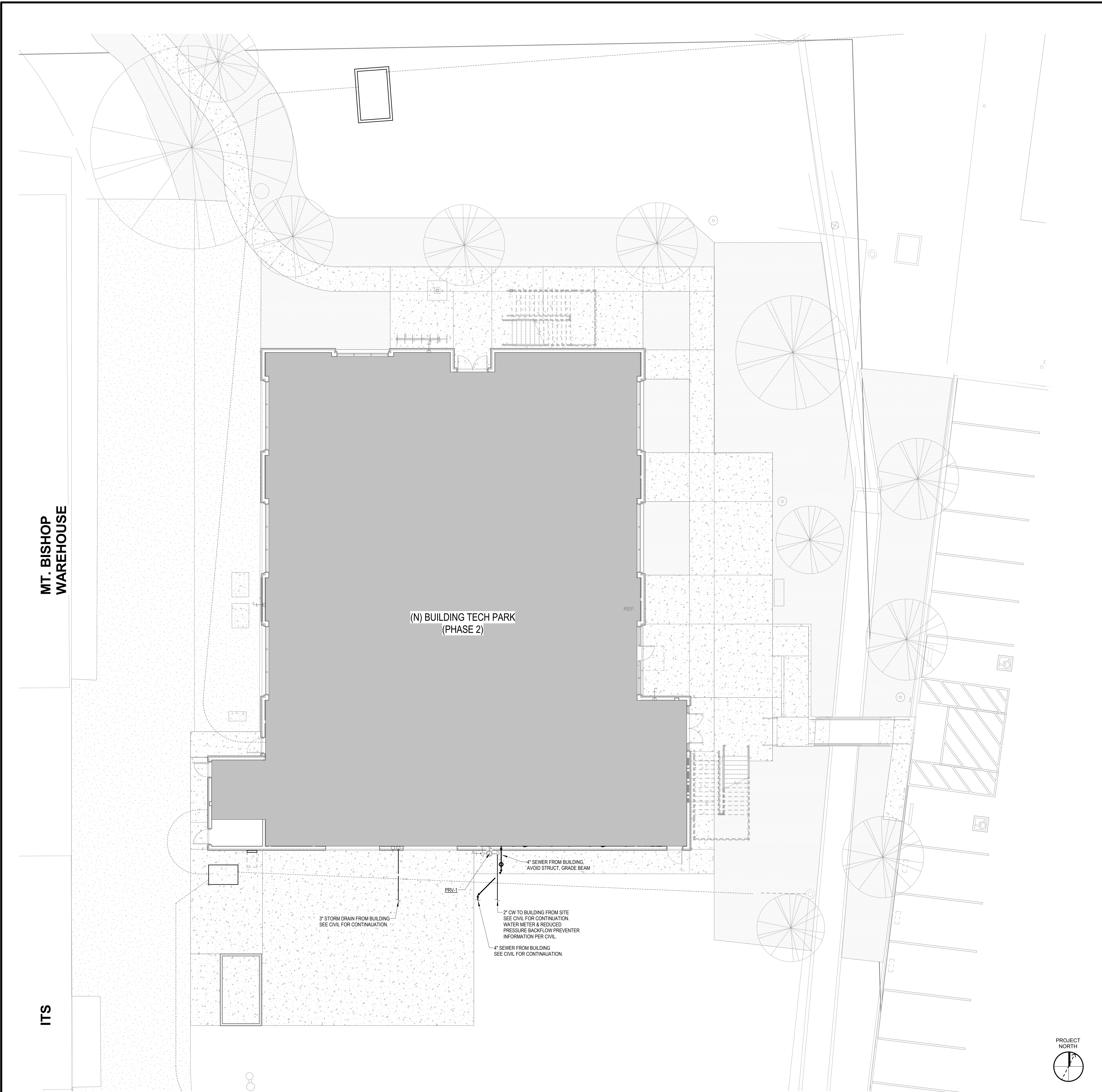
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P-001

DATE: APRIL 11, 2023

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PLUMBING SITE PLAN 1/8" = 1'-0" 1

AGENCY APPROVAL DSAE 03-122864

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

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SHEET TITLE

PLUMBING SITE PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

P-101

DATE: APRIL 11, 2023

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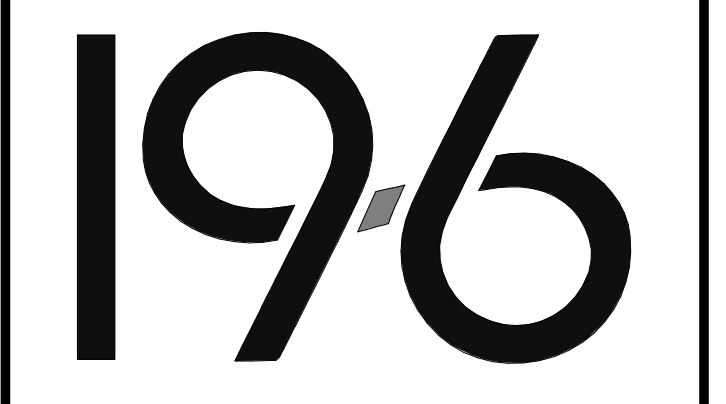


PLUMBING KEYNOTE LEGEND

- P2 3/4" CW & 3/4" HW DN TO FIXTURE.
- P6 3/4" CW DN TO FIXTURE.
- P8 3" W DN & 2" V UP FROM FIXTURE.
- P9 2" W DN & 2" V UP FROM FIXTURE.
- P11 CAPPED FOR FUTURE WITH SHUT-OFF VALVE FOR FUTURE TENANT SPACE IN CEILING SPACE.
- P12 CAPPED FOR FUTURE FOR FUTURE TENANT ABOVE CEILING SPACE.
- P14 1" CD DN & DRAN INDIRECTLY TO MOP SINK THRU AIR GAP.
- P15 CAPPED FOR FUTURE FOR FUTURE TENANT BELOW FINISHED FLOOR.
- P16 3/4" CD FROM MECHANICAL FAN COIL UNIT. REFER TO DETAIL #7/P-501.
- P17 3/4" CD CAPPED FOR FUTURE CONDENSATE DISPOSAL.

GENERAL NOTES

- ALL SANITARY PIPING SHALL RUN AT 2% SLOPE UNLESS IN-ADEQUATE INVERT OR CEILING SPACE. OR UNLESS OTHERWISE NOTED ON FLOOR PLAN. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF THE UNDERGROUND WASTE SERVICE COMING TO THE BUILDING AND SHALL NOTIFY ENGINEER FOR ANY DISCREPANCIES.
- CONTRACTOR TO PROVIDE CONDENSATE PIPING WITH INSULATION AT MINIMUM 1% SLOPE FROM MECHANICAL UNITS REQUIRING CONDENSATE TO MOP SINK WITH MINIMUM 2" AIR GAP OR LAVATORY TAILPIECE. COORDINATE CONDENSATE PUMPS WITH MECHANICAL AND POWER REQUIREMENTS WITH ELECTRICAL. CONDENSATE PUMPS TO BE PROVIDED BY OTHERS.
- REFER TO RISER DIAGRAMS FOR ALL PIPE SIZES.
- ALL PLUMBING WORK SHALL BE COORDINATE WITH ARCHITECTURAL & STRUCTURAL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.
- NO UNDERGROUND PIPING SHALL BE INSTALLED WITHIN FOOTING ZONE OF INFLUENCE. CONTRACTOR TO COORDINATE THE EXACT UNDERGROUND PIPING LOCATION WITH STRUCTURAL FOOTING PRIOR TO CONSTRUCTION.
- THE HOT WATER SYSTEM SHALL COMPLY THAT WHERE A HOT WATER RECIRCULATING SYSTEM IS INSTALLED, THE BRANCH FROM THE RECIRCULATING LOOP TO THE FIXTURE SHALL CONTAIN A MAXIMUM OF 0.6 GALLONS PER GPM @ 112.
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE PER CPC 401.3.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F PER TITLE 24 PART 6 110.30(3).
- WATER PIPING AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER PER CPC 604.2 AND HEALTH & SAFETY CODE 116815.
- HOT WATER SYSTEM SHALL NOT ALLOW MORE THAN 0.6 GALLON OF WATER TO BE DELIVERED TO ANY FIXTURE BEFORE HOT WATER ARRIVES.



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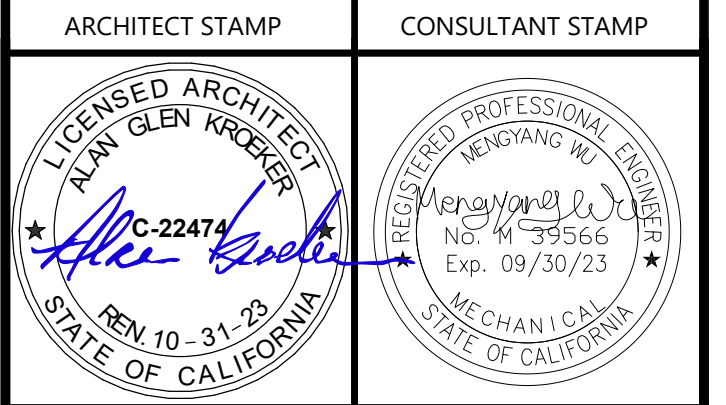
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NO.	DATE	DESCRIPTION
1	2022-12-22	ISSUE FOR PLAN CHECK
2	2023-03-08	100% CD
3	2023-05-09	MS COMMENT REVISION

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SHEET TITLE
LEVEL 01 - PLUMBING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
P-201

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt
 DATE PLOTTED: 6/9/2023 2:16:36 PM



PLUMBING KEYNOTE LEGEND

- P11 CAPPED FOR FUTURE WITH SHUT-OFF VALVE FOR FUTURE TENANT SPACE IN CEILING SPACE.
- P13 1" CAPPED FOR FUTURE CONDENSATE DISPOSAL (MAX 38 TONS)

GENERAL NOTES

1. ALL SANITARY PIPING SHALL RUN AT 2% SLOPE UNLESS IN-ADEQUATE INVERT OR CEILING SPACE. OR UNLESS OTHERWISE NOTED ON FLOOR PLAN. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF THE UNDERGROUND WASTE SERVICE COMING TO THE BUILDING AND SHALL NOTIFY ENGINEER FOR ANY DISCREPANCIES.
2. CONTRACTOR TO PROVIDE CONDENSATE PIPING WITH INSULATION AT MINIMUM 1% SLOPE FROM MECHANICAL UNITS REQUIRING CONDENSATE TO MOP SINK WITH MINIMUM 2" AIR GAP OR LAVATORY TAILPIECE. COORDINATE CONDENSATE PUMPS WITH MECHANICAL AND POWER REQUIREMENTS WITH ELECTRICAL. CONDENSATE PUMPS TO BE PROVIDED BY OTHERS.
3. REFER TO RISER DIAGRAMS FOR ALL PIPE SIZES.
4. ALL PLUMBING WORK SHALL BE COORDINATE WITH ARCHITECTURAL & STRUCTURAL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.
5. NO UNDERGROUND PIPING SHALL BE INSTALLED WITHIN FOOTING ZONE OF INFLUENCE. CONTRACTOR TO COORDINATE THE EXACT UNDERGROUND PIPING LOCATION WITH STRUCTURAL FOOTING PRIOR TO CONSTRUCTION.
6. THE HOT WATER SYSTEM SHALL COMPLY THAT WHERE A HOT WATER RECIRCULATING SYSTEM IS INSTALLED, THE BRANCH FROM THE RECIRCULATING LOOP TO THE FIXTURE SHALL CONTAIN A MAXIMUM OF 0.6 GALLONS PER GPM @ 112.
7. ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE PER CPC 401.3.
8. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F PER TITLE 24 PART 6 110.3(C)(3).
9. WATER PIPING AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER PER CPC 604.2 AND HEALTH & SAFETY CODE 116875.
10. HOT WATER SYSTEM SHALL NOT ALLOW MORE THAN 0.6 GALLON OF WATER TO BE DELIVERED TO ANY FIXTURE BEFORE HOT WATER ARRIVES.

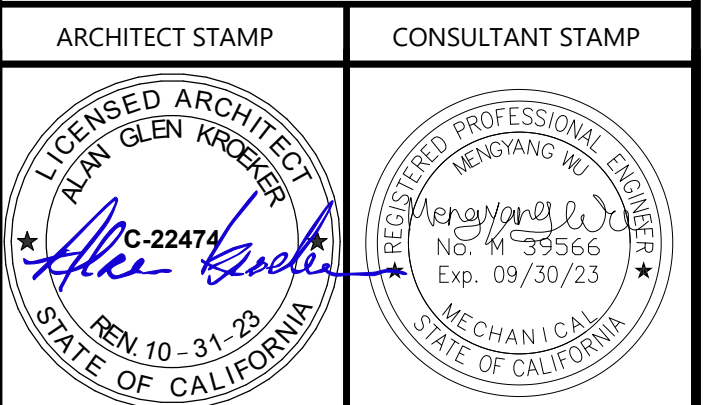
AGENCY APPROVAL DSAE 03-122884



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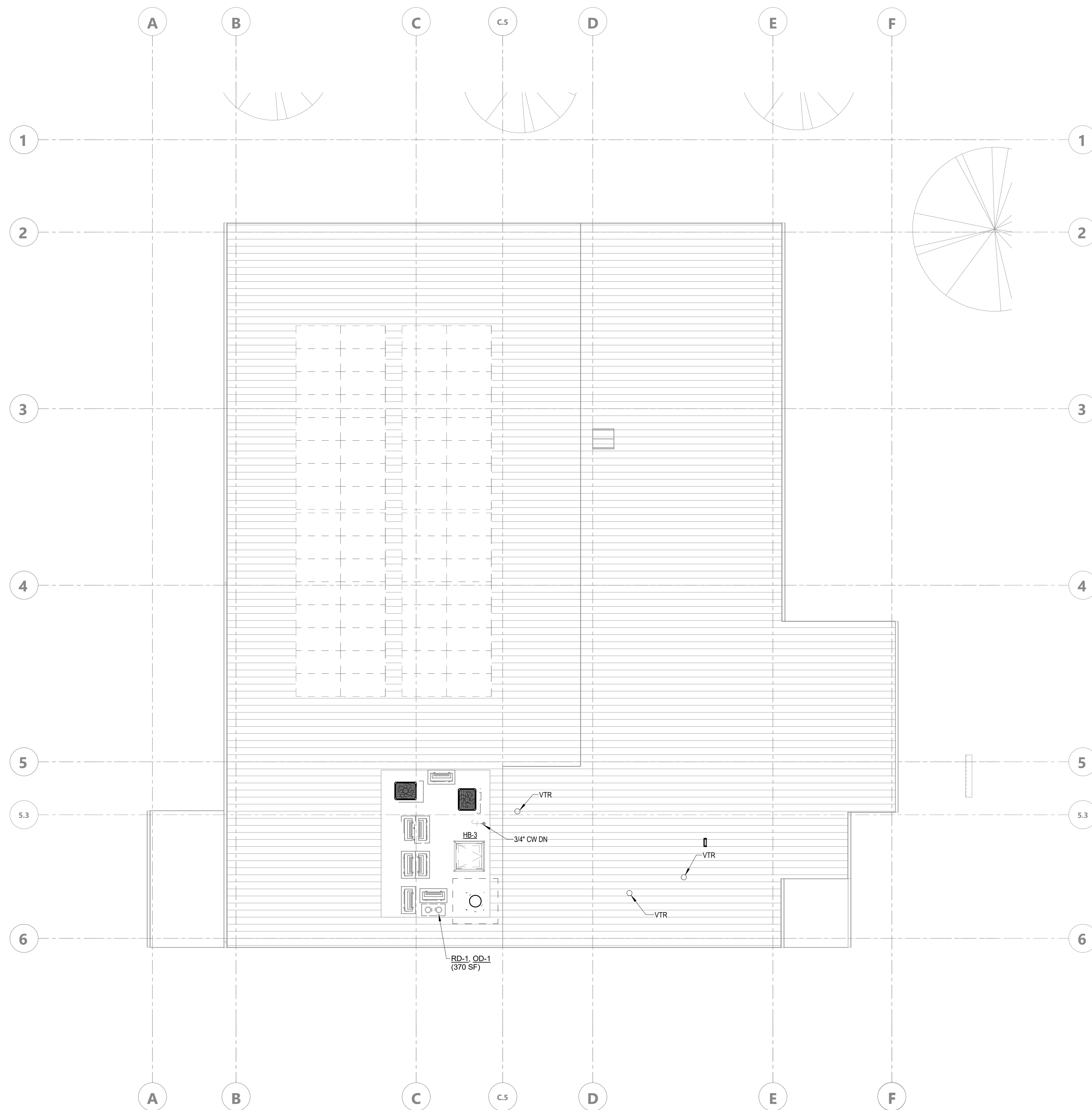
SHEET TITLE
LEVEL 02 - PLUMBING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
P-202
 DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/9/2023 10:28:05 AM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



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

KEYNOTE LEGEND

GENERAL NOTES

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- THE HOT WATER SYSTEM SHALL COMPLY THAT WHERE A HOT WATER RECIRCULATING SYSTEM IS INSTALLED, THE BRANCH FROM THE RECIRCULATING LOOP TO THE FIXTURE SHALL CONTAIN A MAXIMUM OF 0.6 GALLONS PER LPM @ 112.
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE PER CPC 401.3.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F PER TITLE 24 PART 6 110.34(3).
- WATER PIPING AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER PER CPC 604.2 AND HEALTH & SAFETY CODE 116815.
- HOT WATER SYSTEM SHALL NOT ALLOW MORE THAN 0.6 GALLON OF WATER TO BE DELIVERED TO ANY FIXTURE BEFORE HOT WATER ARRIVES.

AGENCY APPROVAL DSAE 03-122884



CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY

Approved by: [Signature] 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel



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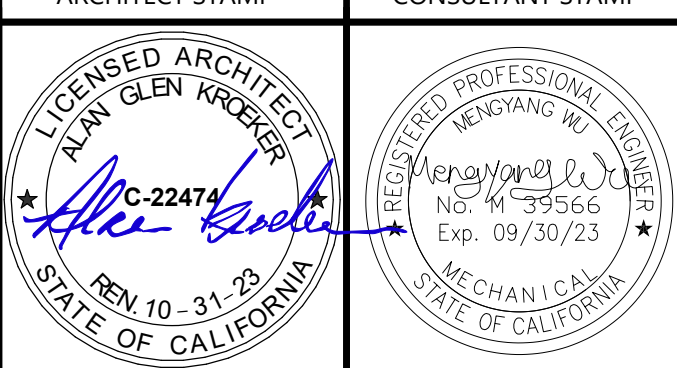
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ARCHITECT STAMP CONSULTANT STAMP



REVISIONS

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SHEET TITLE
ROOF - PLUMBING
PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
P-203

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/9/2023 10:28:10 AM FILE LOCATION: Autodesk Docs:/Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt

PLUMBING KEYNOTE LEGEND

- P1 1-1/2" CW DN TO FIXTURE.
- P2 3/4" CW & 3/4" HW DN TO FIXTURE.
- P3 2" CW DN TO HEADER.
- P4 3/4" HW DN TO HEADER.
- P5 3/4" CW DN TO FIXTURE.
- P6 1/2" TP FROM TRAP PRIMER.
- P7 4" W DN & 2" V UP THROUGH CLOSET CARRIER.
- P8 3" W DN & 2" V UP FROM FIXTURE.
- P9 2" W DN & 2" V UP FROM FIXTURE.
- P10 2" W DN & 2" V UP FROM FLOOR DRAIN WITH 1/2" TP CONNECTION.
- P14 1" CD DN & DRAIN INDIRECTLY TO MOP SINK THRU AIR GAP.
- P16 3/4" CD FROM MECHANICAL FAN COIL UNIT. REFER TO DETAIL #7P-601.

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AGENCY APPROVAL DSA# 03-122884

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *DS* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shulz

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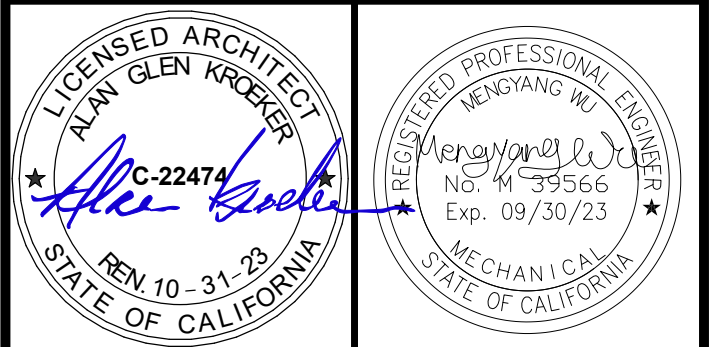
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CAL POLY TECH PARK - PHASE 2
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San Luis Obispo, CA

SHEET TITLE
ENLARGED PLUMBING PLANS

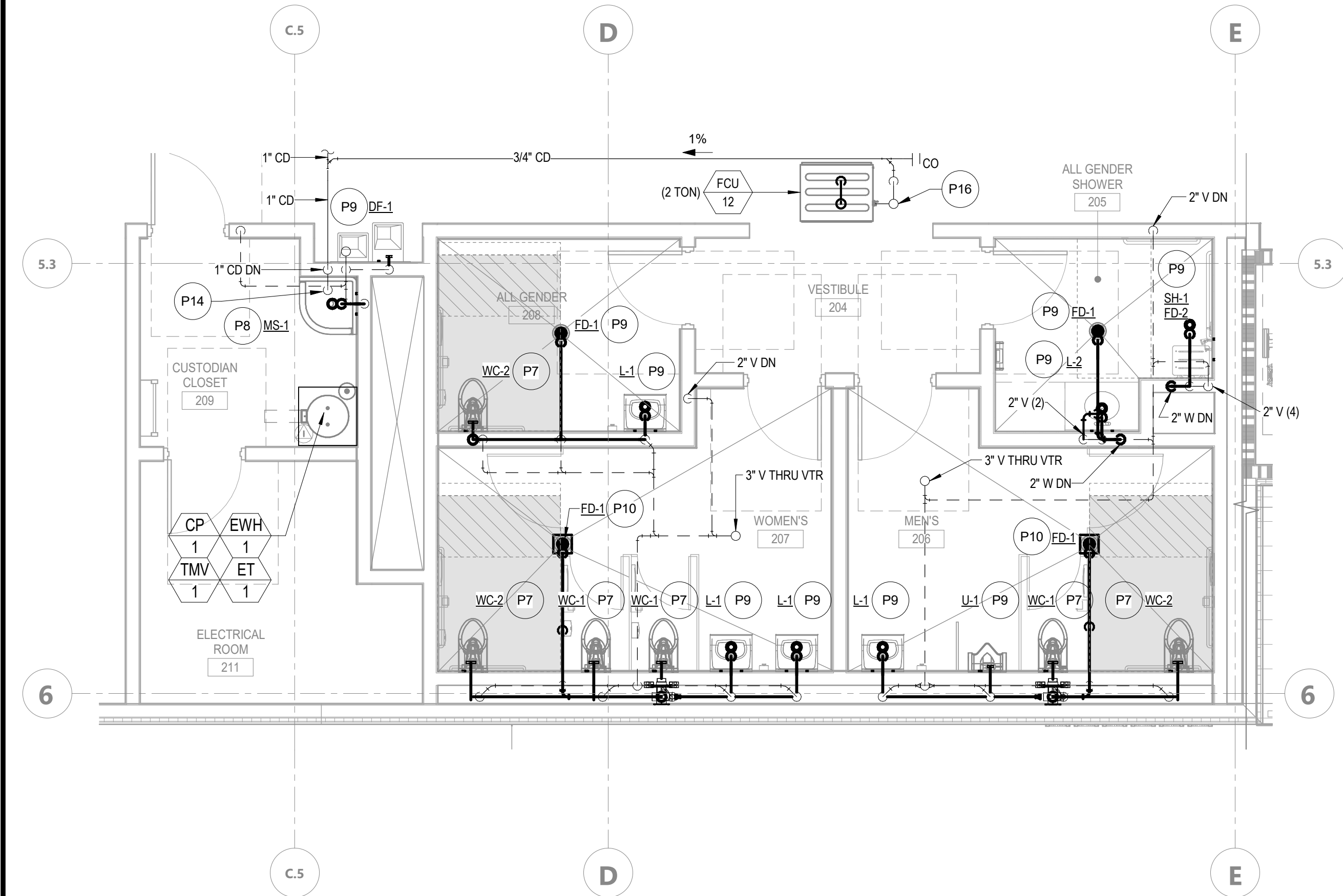
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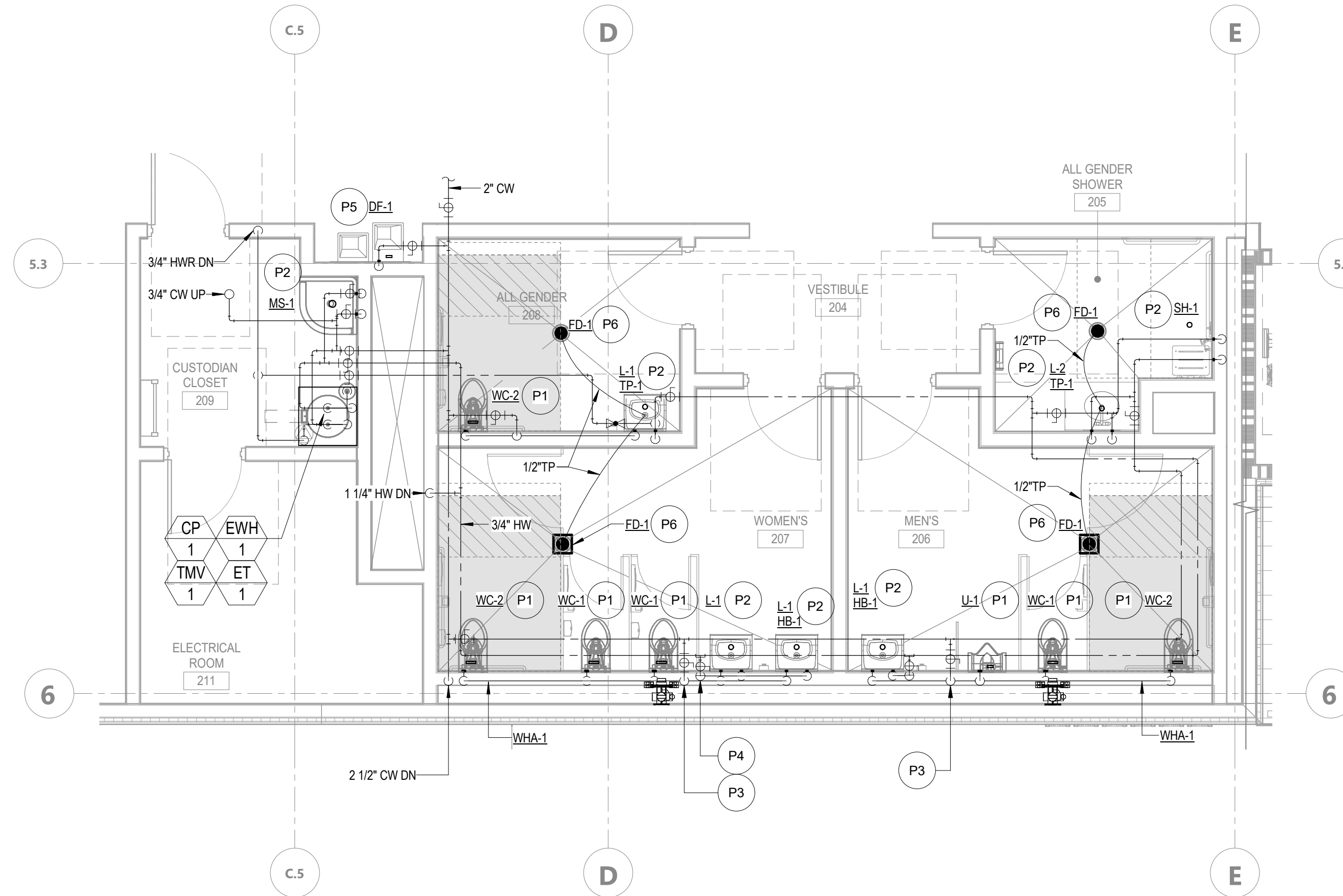
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DATE: APRIL 11, 2023

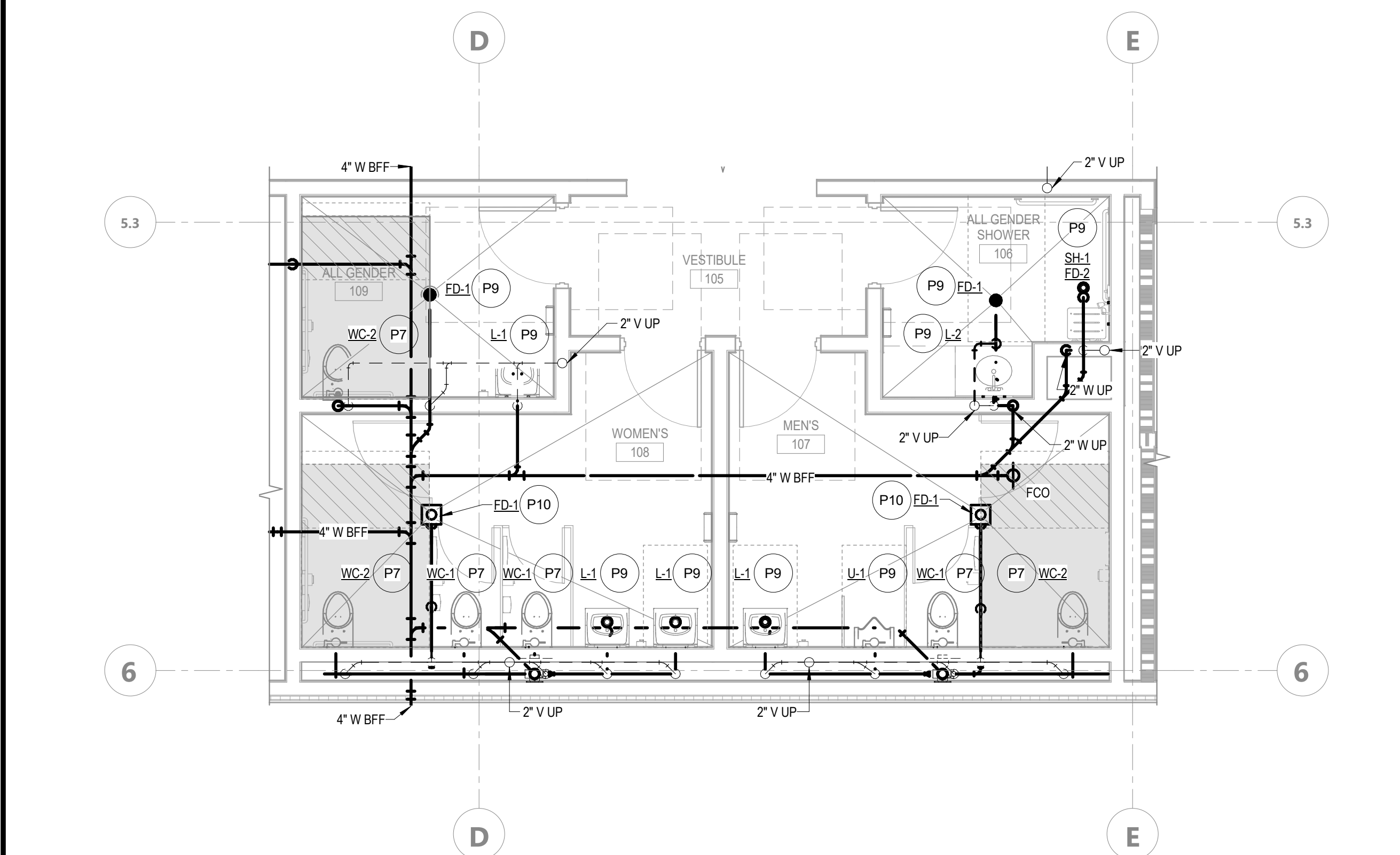
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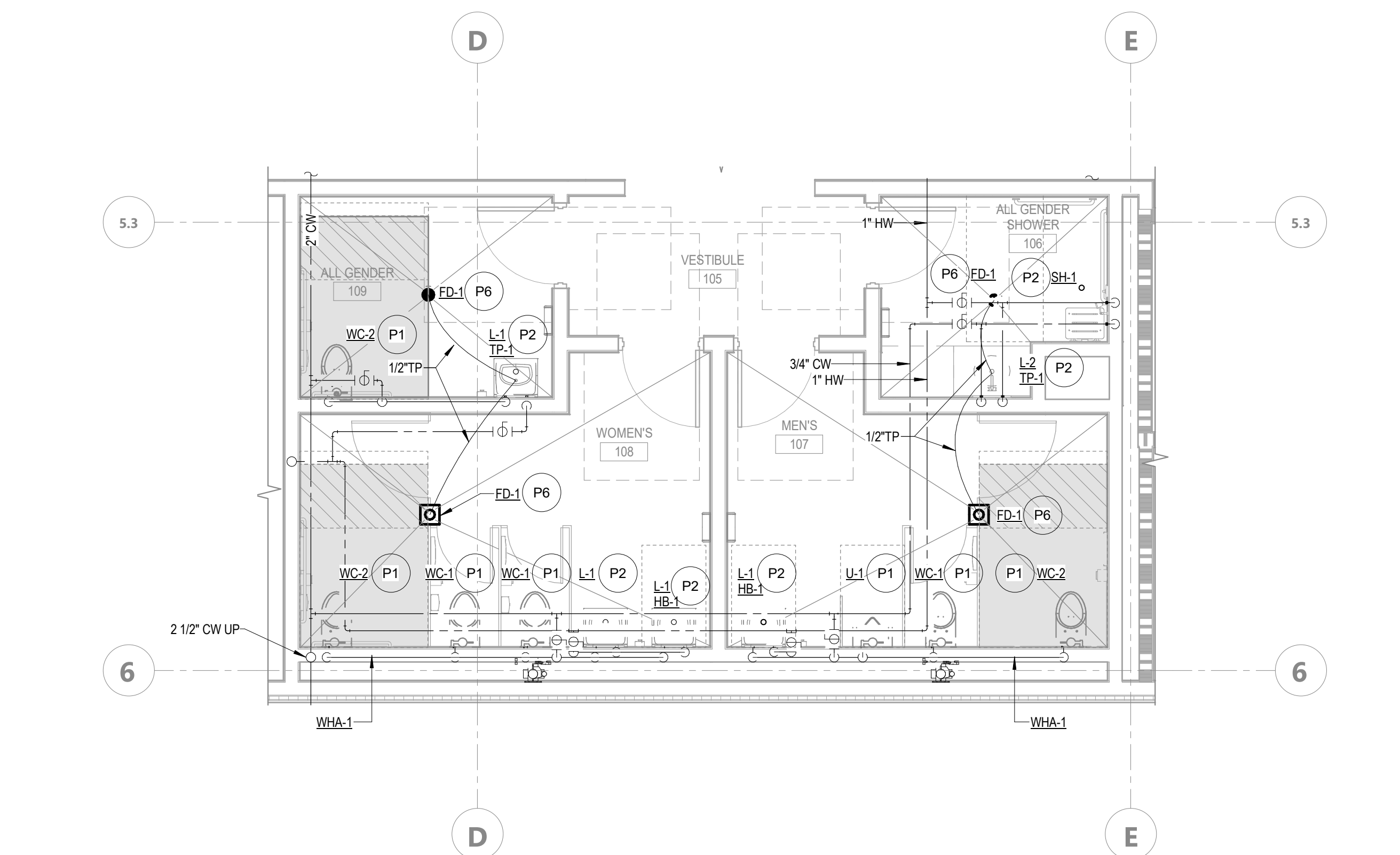
LEVEL 02 - ENLARGED PLUMBING PLAN - WASTE + VENT 1/4" = 1'-0" 4



LEVEL 02 - ENLARGED PLUMBING PLAN - HOT + COLD WATER 1/4" = 1'-0" 2



LEVEL 01 - ENLARGED PLUMBING PLAN - WASTE + VENT 1/4" = 1'-0" 3



LEVEL 01 - ENLARGED PLUMBING PLAN - HOT + COLD WATER 1/4" = 1'-0" 1

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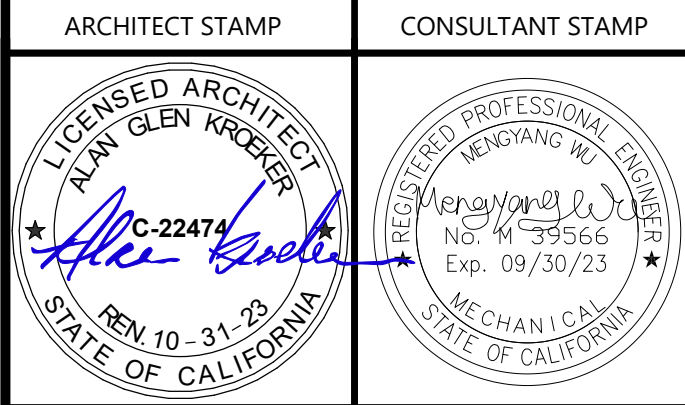


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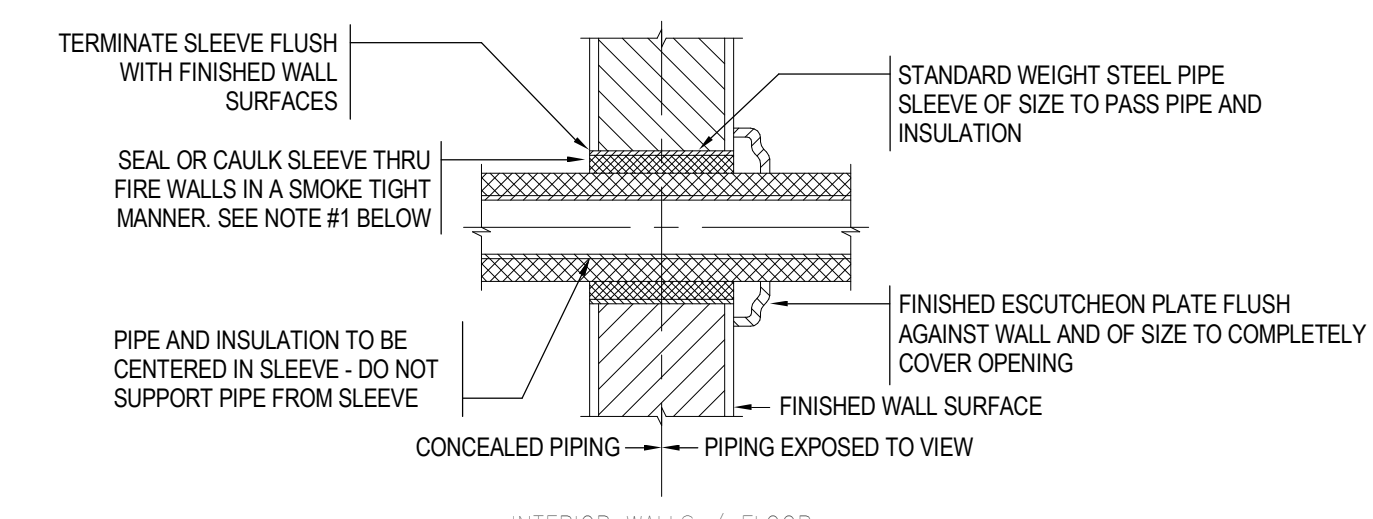
PROJECT OWNER & TITLE
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CAL POLY TECH
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PLUMBING DETAILS

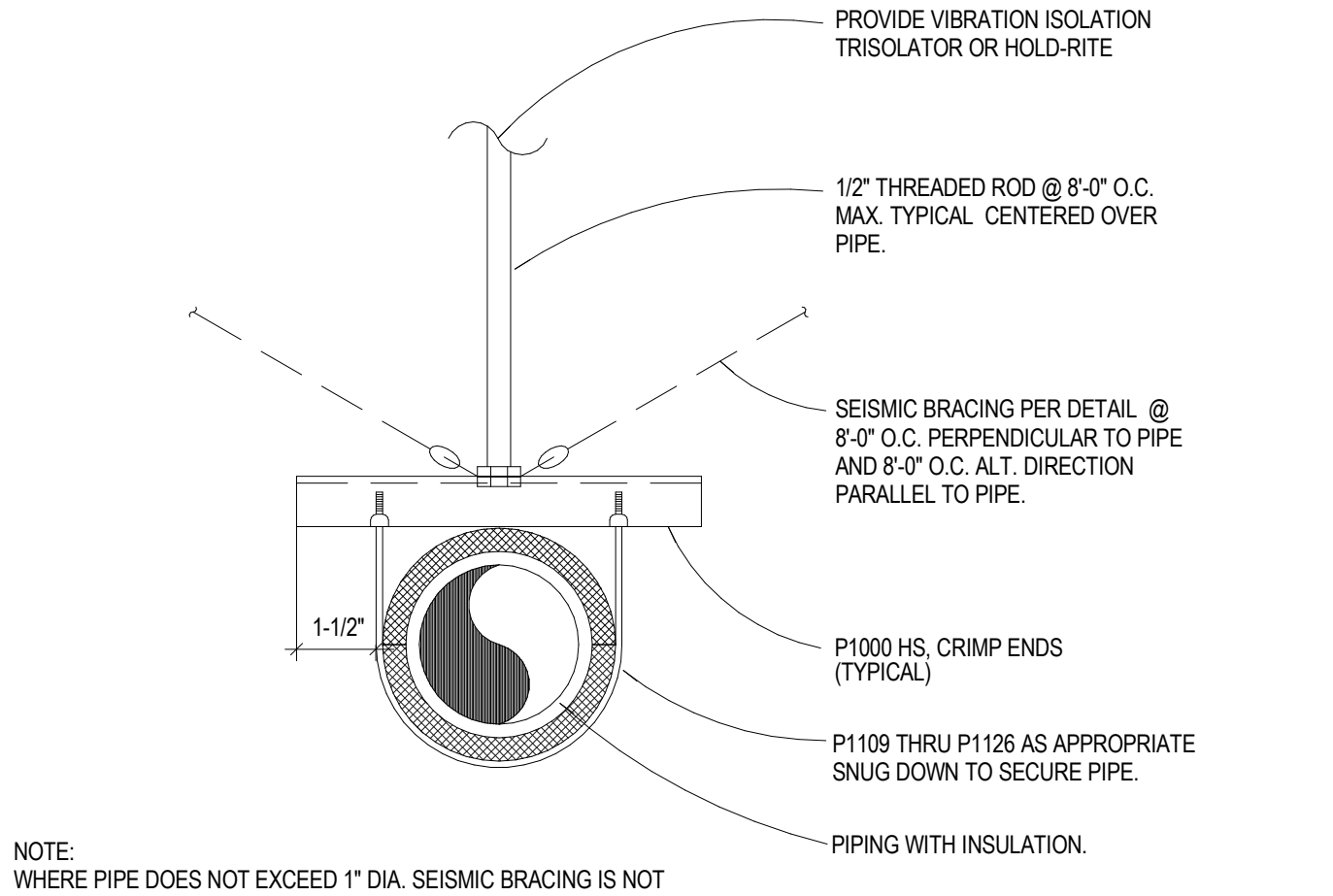
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
P-501
DATE: APRIL 11, 2023



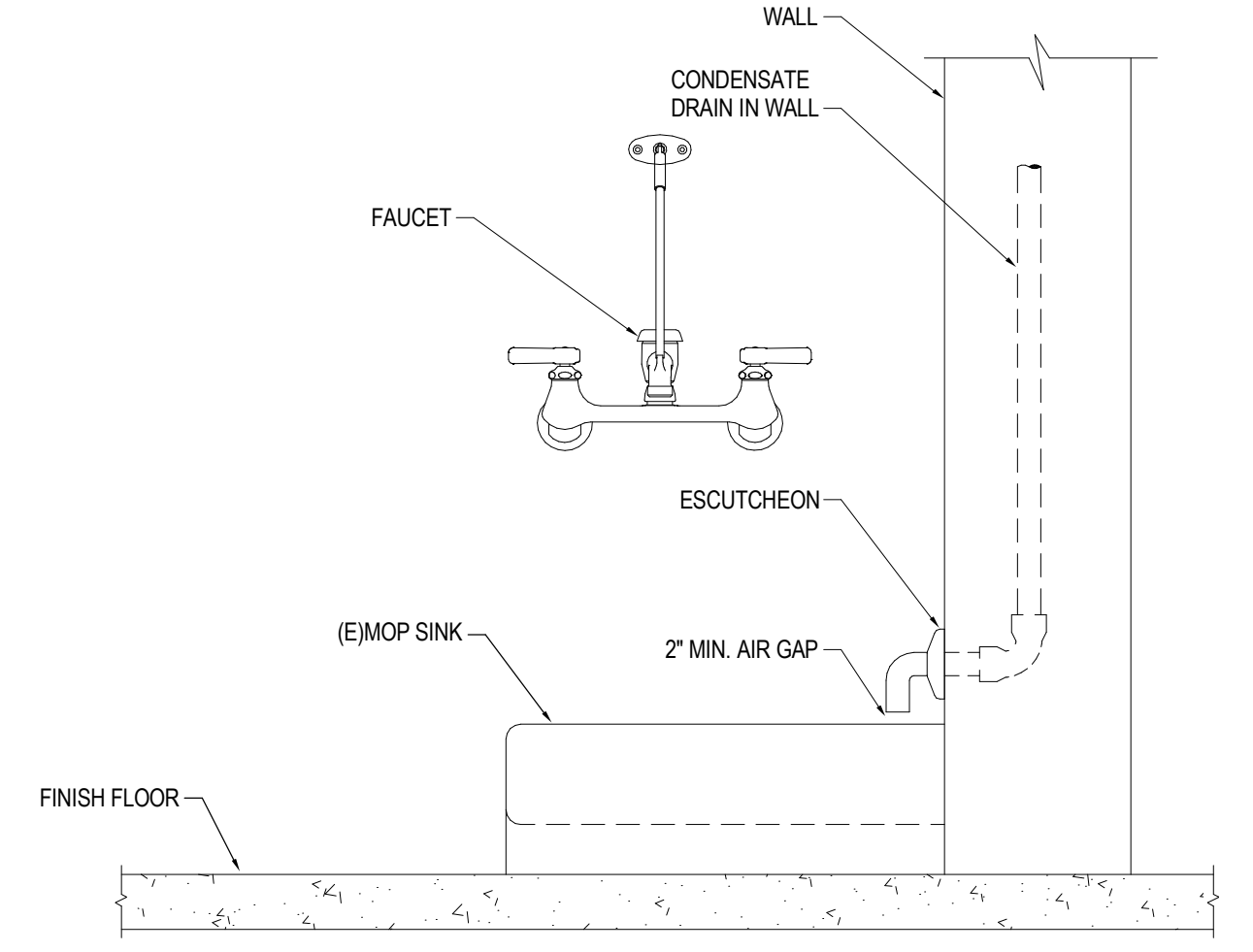
- NOTES:
- PLUMBING PIPING PENETRATING FIRE RATED WALLS SHALL BE SEALED IN A SMOKE TIGHT MANNER WITH SEALANT MATERIAL OF THE SAME RATING OF THE WALL. FIRE STOPPING SHALL BE PER CAL POLY CAMPUS STANDARD SPECIFICATION SECTION 07-84.00.
 - ALL WATER PROOFING SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.

4 P-501 NO SCALE

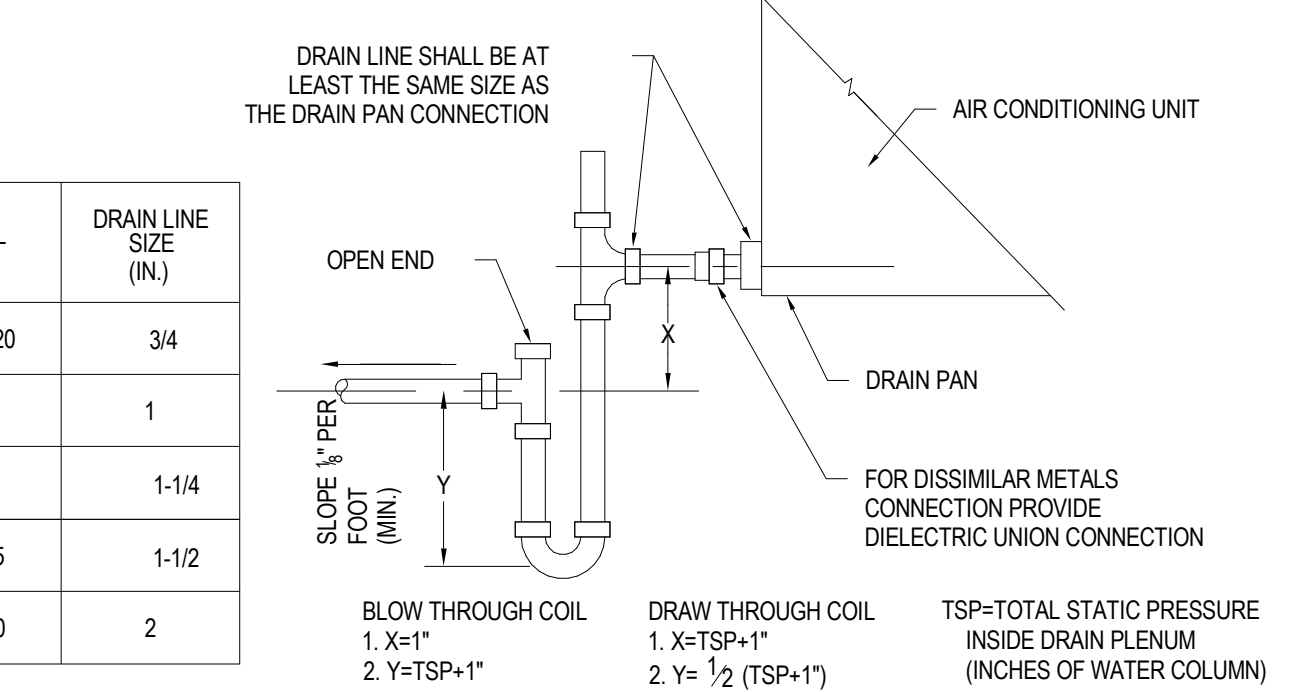


NOTE: WHERE PIPE DOES NOT EXCEED 1" DIA. SEISMIC BRACING IS NOT REQUIRED. ADDITIONALLY PIPES MAY BE SUPPORTED W/UNISTRUT J1205-J1210 AS APPROPRIATE.

3 P-501 NO SCALE

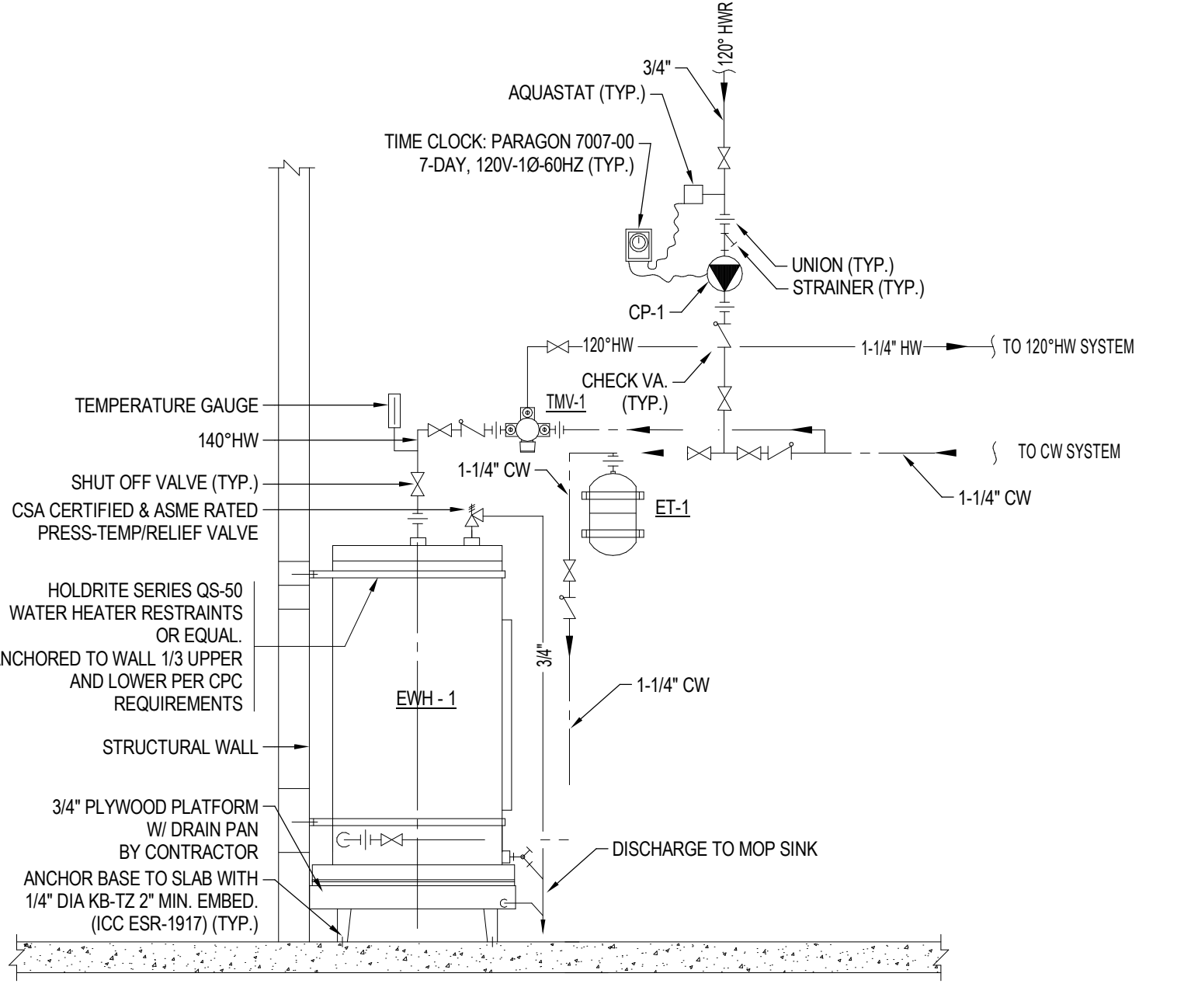


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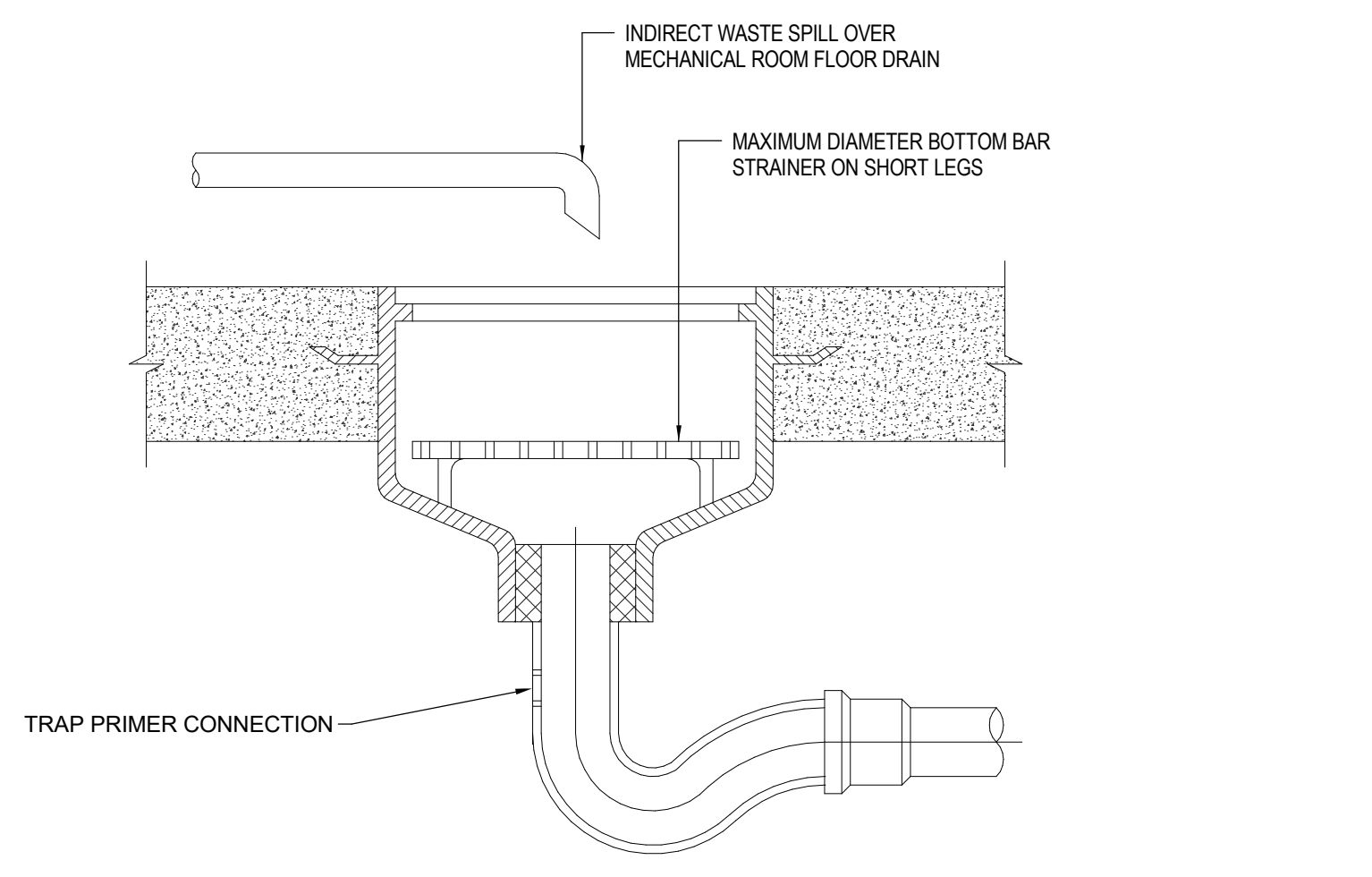


- NOTES:
- WHERE VERTICAL SPACE DOES NOT PERMIT TRAP INSTALLATION AS REQUIRED ABOVE FLOOR SLAB, EXTEND P-TRAP TO BELOW SLAB.
 - FOR INDOOR AND OUTDOOR INSTALLATION PROVIDE INSULATED RAIN LINE TO THE POINT OF DISCHARGE AT APPROVED RECEPTOR.

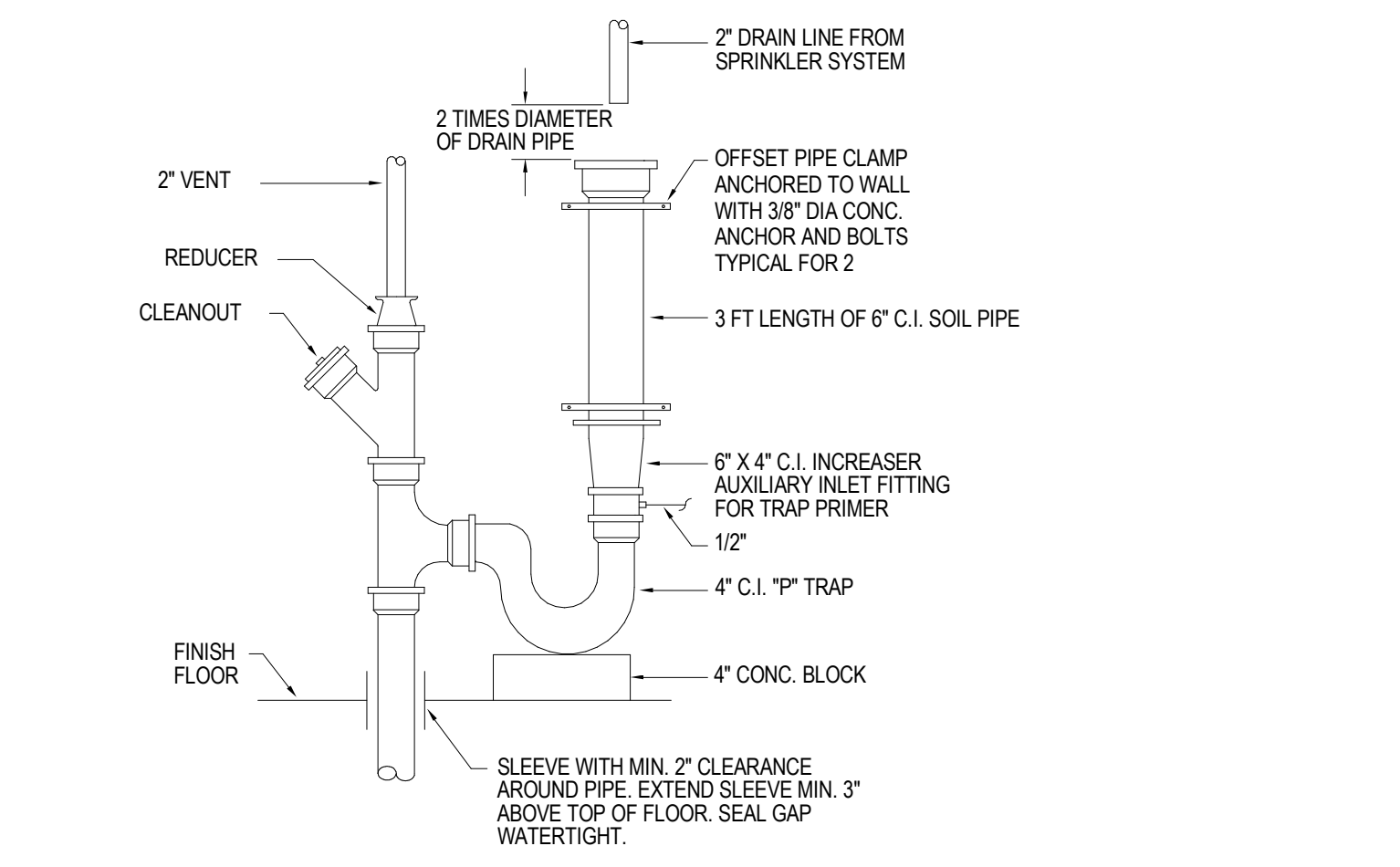
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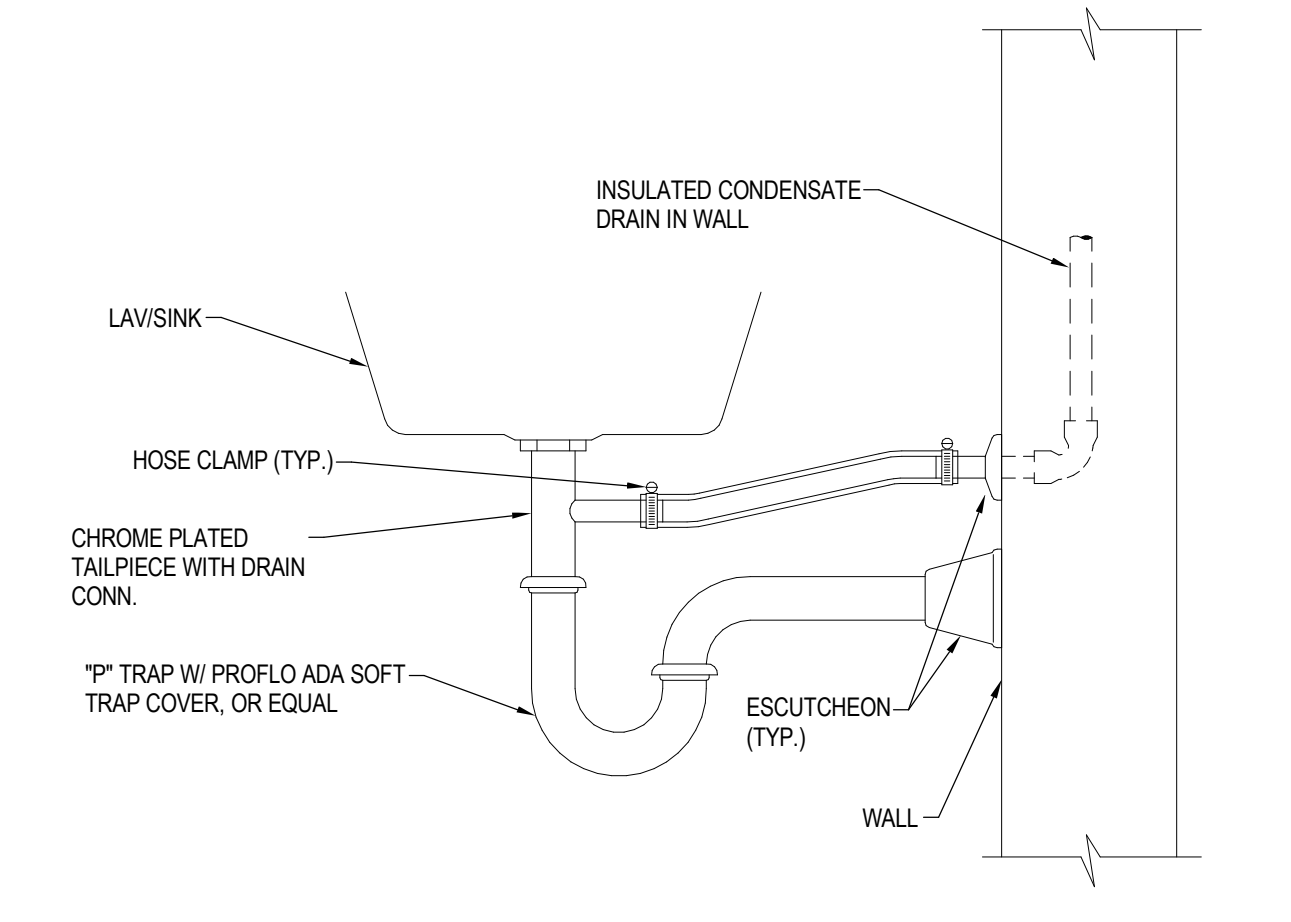
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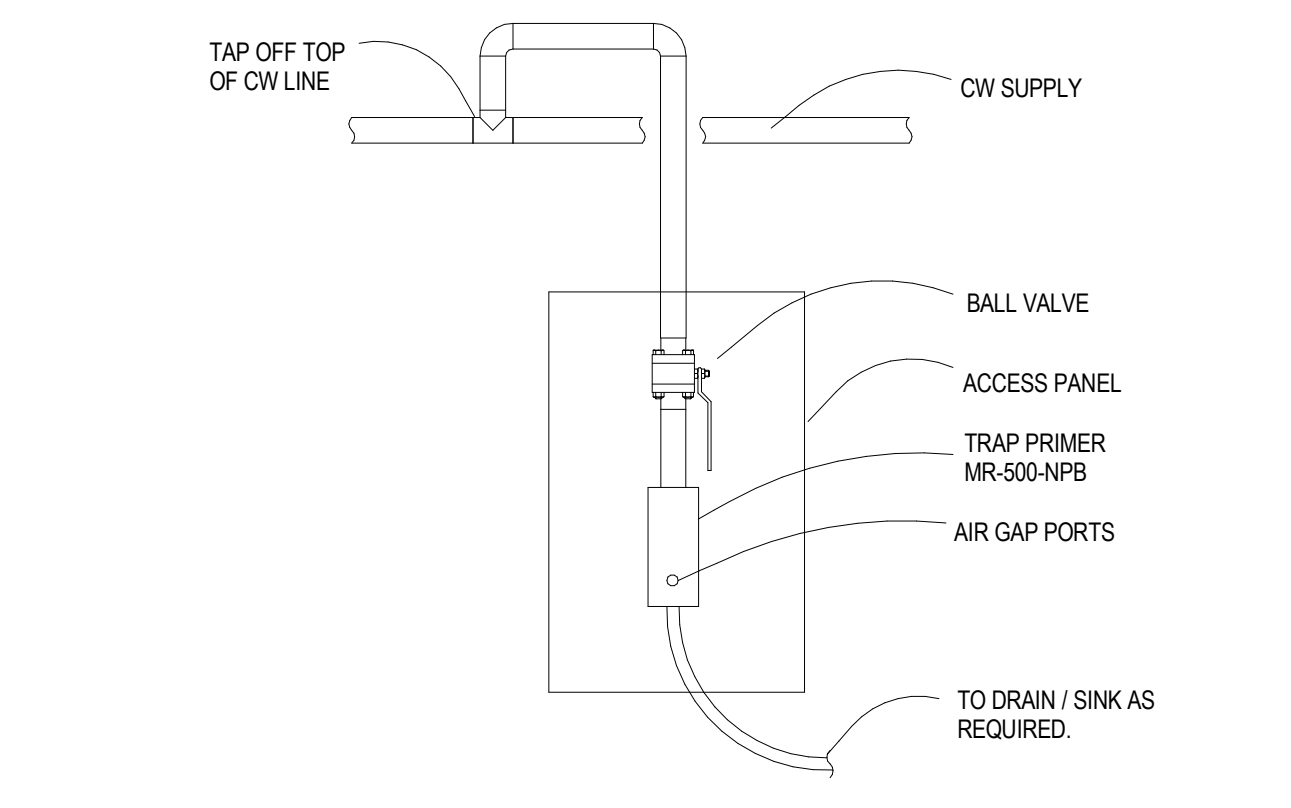
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9 P-501 NO SCALE

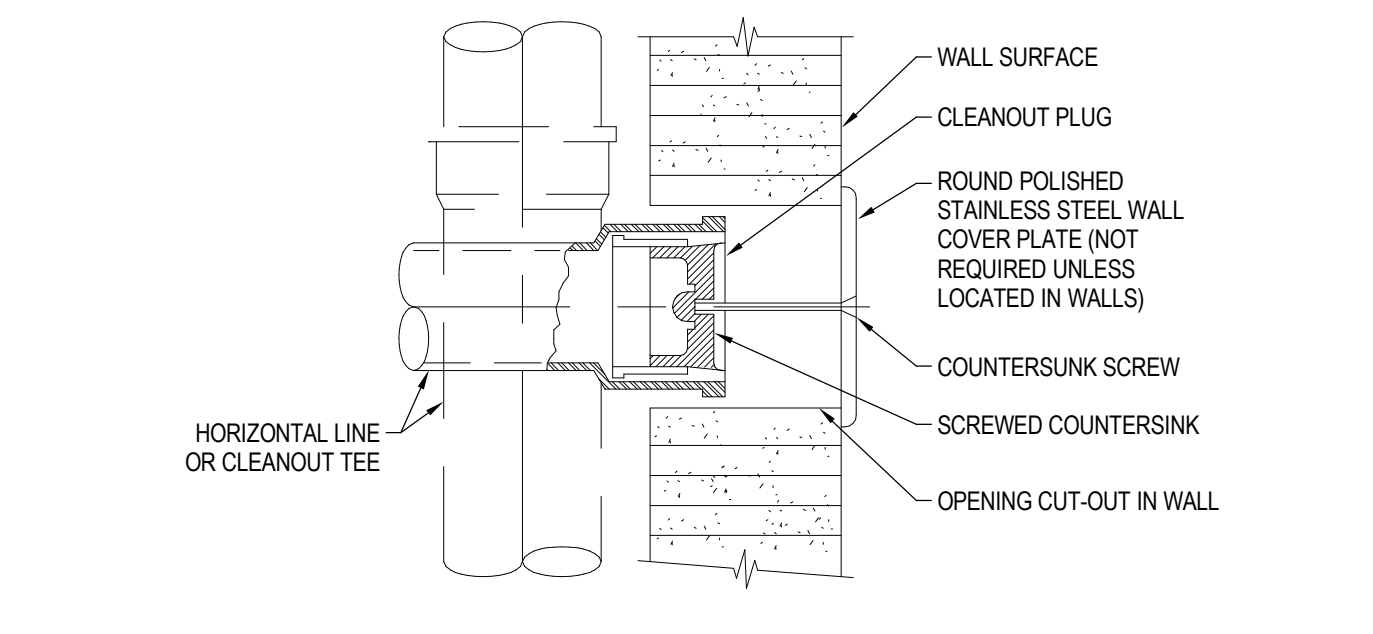


6 P-501 NO SCALE



5 P-501 NO SCALE

2 P-501 NO SCALE



1 P-501 NO SCALE

- NOTES:
- CLEANOUT TO BE INSTALLED WITHIN TWO INCHES OF THE FACE OF THE WALL.
 - WHERE APPROPRIATE CLEANOUT TO BE INSTALLED ABOVE RIM HEIGHT OF FIXTURE.

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 6/9/2023 10:28:10 AM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt

Plumbing Fixture Unit(F.U) and Load Calculation Form. Project Name: Cal Poly Tech Phase 2. Created By: Mengyang Wu. Date: 10/25/22. Checked By: [Blank]. Table with columns: Description, Quantity, Waste F.U, Water F.U, C.W F.U, H.W F.U, H.W DEMAND (GPH), Total Waste F.U, Total Water F.U, Total C.W F.U, Total H.W F.U, Possible Max. Total H.W DEMAND (GPH).

HYDRAULIC CALCULATION. Table with columns: Item, Description, High/Low, PSI. Includes items like INCOMING WATER PRESSURE, PRESSURE LOSS AT 2" WATER METER, etc.

WATER PIPE SIZING SCHEDULE (COPPER PIPE TYPE L). Table with columns: SIZE, ALLOWED WSPU BASED ON 3.4 PSI/100' FRICTION LOSS, FLUSH TANK, FLUSH VALVE, COLD WATER (8 FT/S), HOT WATER (5 FT/S), COLD WATER (8 FT/S).

PIPE LENGTH AND WATER CONTENT. Table with columns: PIPE MATERIAL, NOMINAL DIAMETER, LENGTH OF PIPE CONTAINING 0.6 GAL. Includes Copper Type-L, CPVC SDR-11, PEX, and Steel Sch. 40.

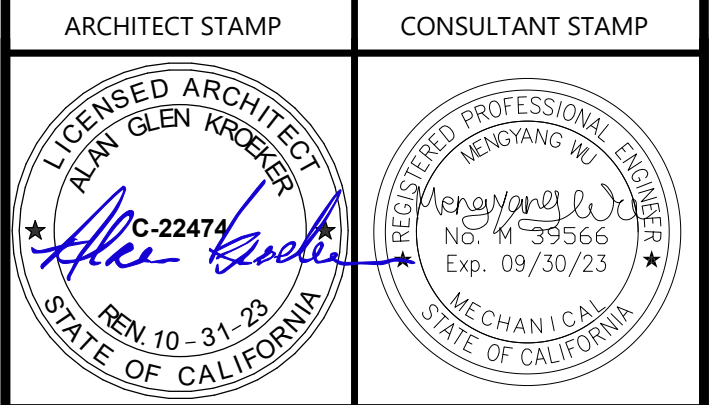
PLUMBING FIXTURE SCHEDULE. Table with columns: UNIT TAG, DESCRIPTION, MINIMUM CONN. (WASTE, VENT, DCW, DHW), REMARKS. Lists various fixtures like water closets, lavatories, showers, sinks, and drinking fountains.

STORAGE TYPE ELECTRIC WATER HEATER SCHEDULE. Table with columns: MARK, MANUFACTURER & MODEL NUMBER, AREA SERVES, INCOMING WATER TEMP., STORAGE TEMP., TEMP. RISE, STORAGE CAPACITY, RECOVERY, ELECTRICAL DATA (V/PHz, AMPS, WATTS), REMARKS.

AGENCY APPROVAL DSA# 03-122864



CONSULTANTS CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 FIERO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896 LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE D 22 SANTA MARIA, CA 92103 TEL (760) 220-6811 STRUCTURAL ENGINEER 1936 STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210 M.E.P. ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005 FIRE PROTECTION ENGINEER ALPHA FIRE UNLIMITED 650 SWEENEY LANE SAN LUIS OBISPO, CA 93401 TEL (805) 541-2527 FIRE ALARM ENGINEER DEEP BLUE INTEGRATION INC. 3442 EMPRESA DR. SUITE C SAN LUIS OBISPO, CA 93401 TEL (888) 600-0324



REVISIONS. Table with columns: NO., DATE, DESCRIPTION. Includes revisions for issue for plan check and comment revision.

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PROJECT OWNER & TITLE CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2 Mount Bishop Road San Luis Obispo, CA

SHEET TITLE PLUMBING SCHEDULES

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

P-601

DATE: APRIL 11, 2023

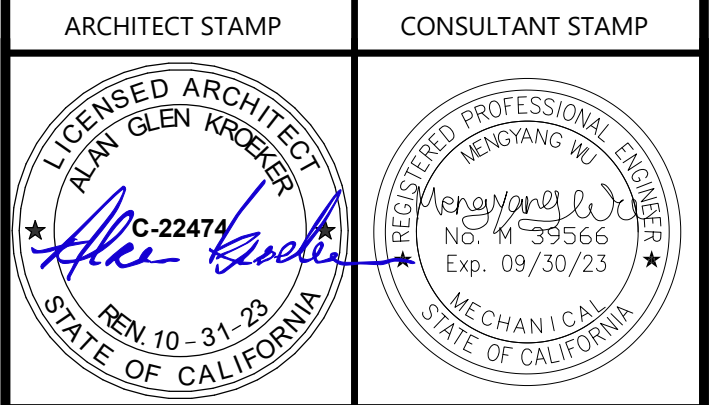
CONSTRUCTION DOCUMENTS



AMG
 26535 SUMMIT CIRCLE
 SANTA CLARITA, CA 91350
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19.6
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NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	MS COMMENT REVISION

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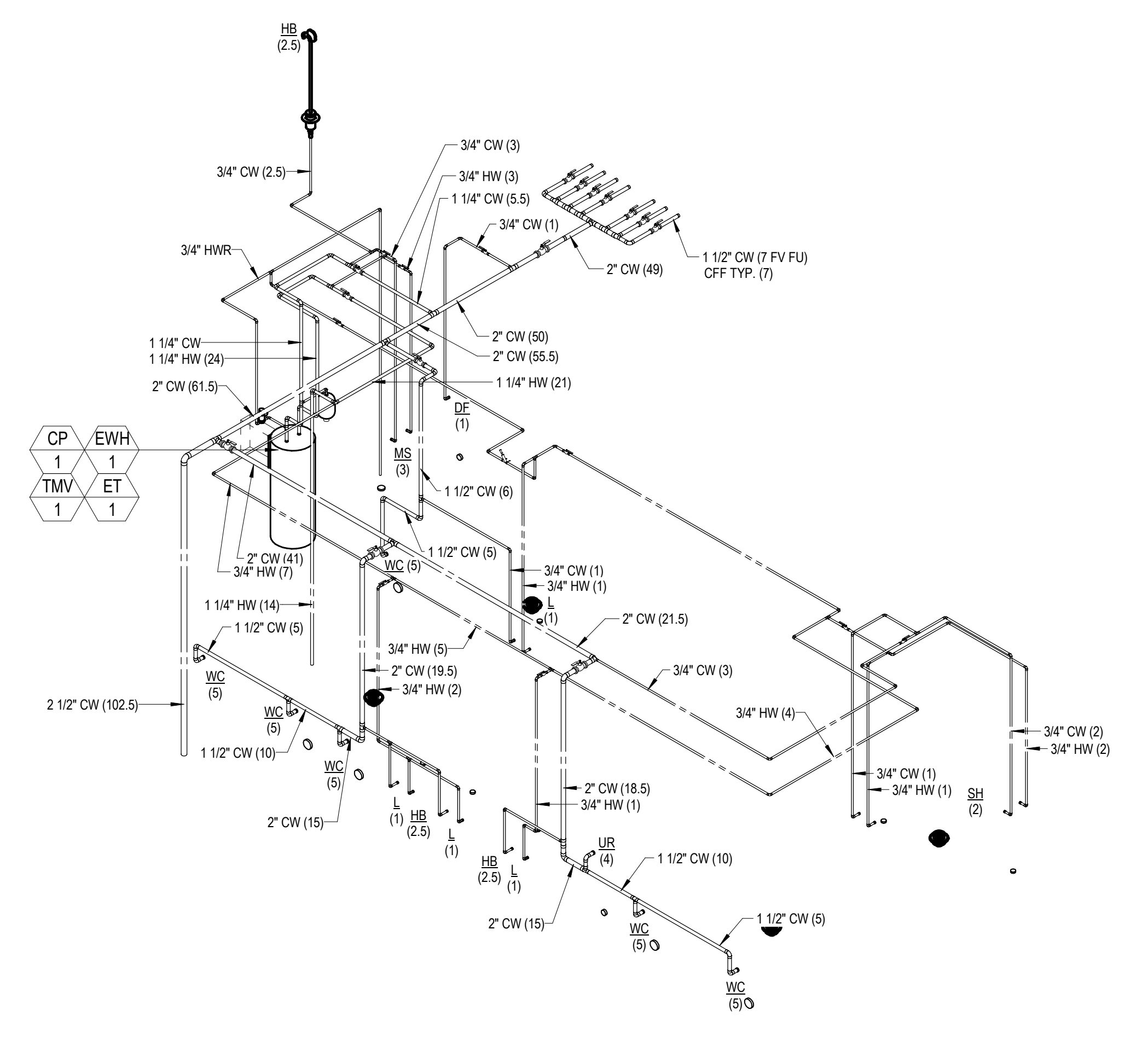
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 PARK - PHASE 2
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SHEET TITLE
PLUMBING RISER
DIAGRAMS

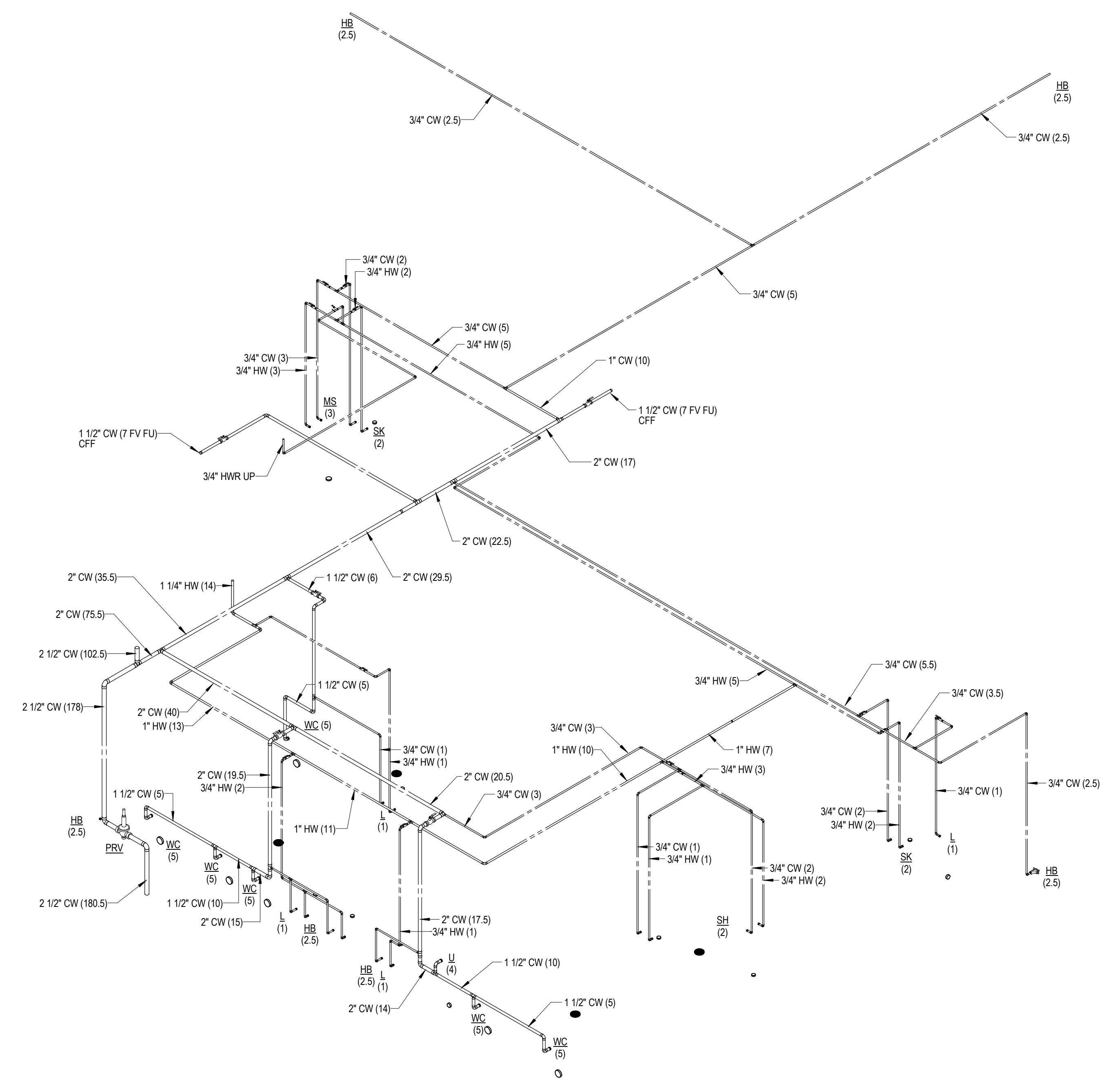
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
P-701

DATE: APRIL 11, 2023



PLUMBING RISER DIAGRAM - 2ND FLOOR - HOT + COLD WATER



PLUMBING RISER DIAGRAM - 1ST FLOOR - HOT + COLD WATER

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt
 DATE PLOTTED: 6/9/2023 10:28:12 AM

CONSTRUCTION DOCUMENTS

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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ARCHITECT STAMP	CONSULTANT STAMP
<i>[Architect Stamp: Alex Smith, State of California, No. C-22474, Exp. 09/30/23]</i>	<i>[Consultant Stamp: State of California, Mechanical, No. 10-31-23, Exp. 09/30/23]</i>

NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	MIS COMMENT REVISION

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SHEET TITLE

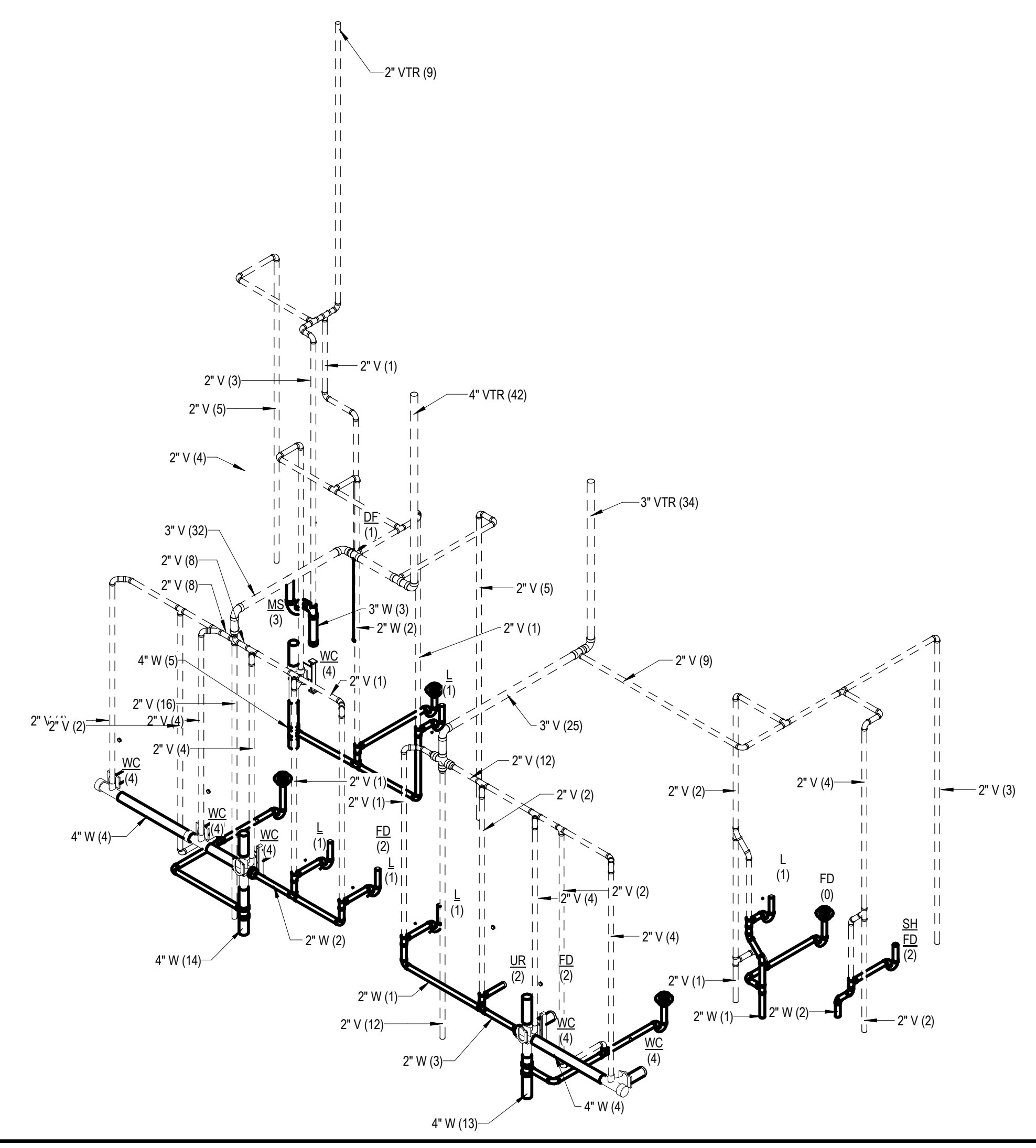
PLUMBING RISER DIAGRAMS

DRAWN BY: Author JOB NUMBER: 21179.01

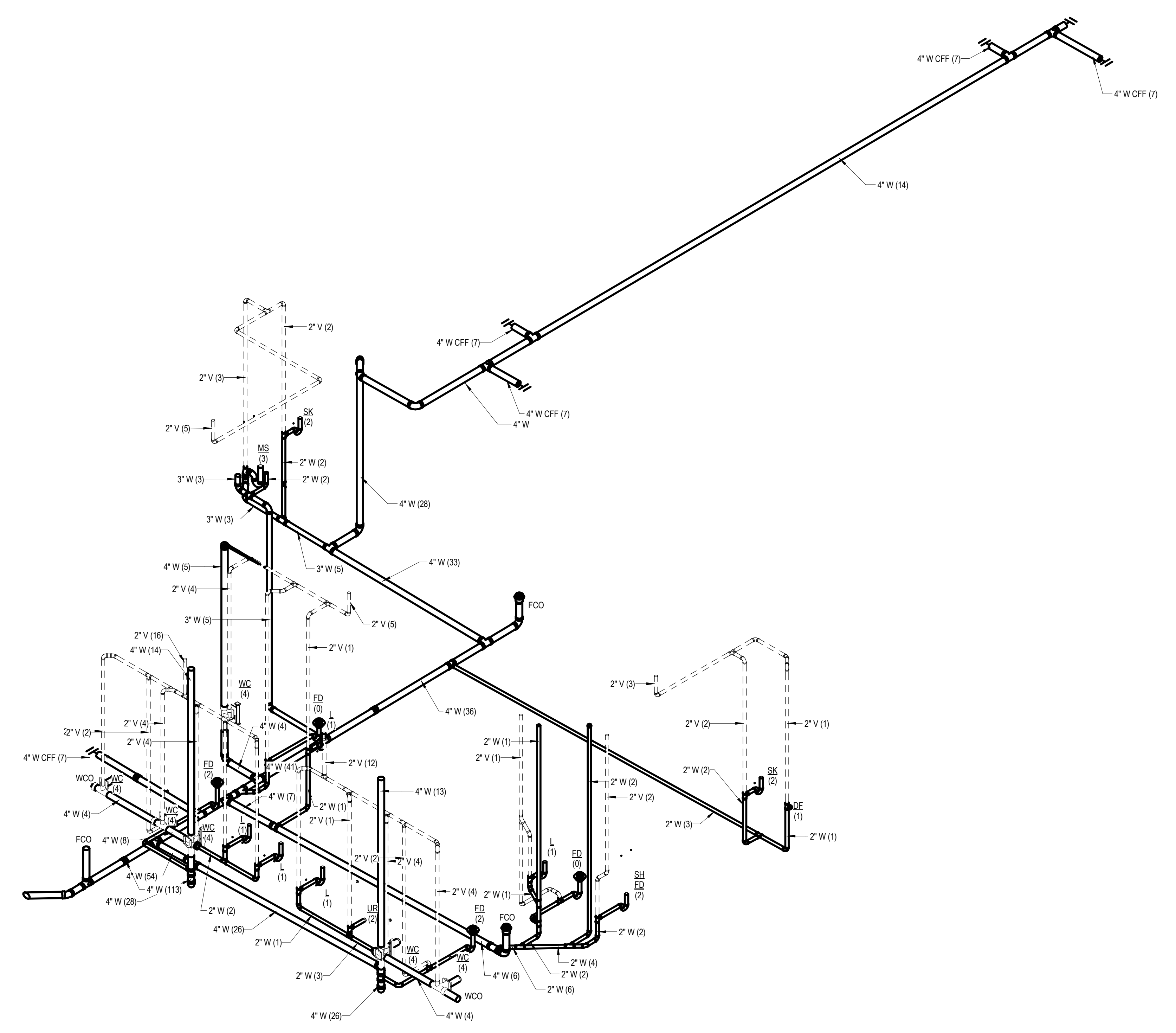
SHEET NO.

P-702

DATE: APRIL 11, 2023



PLUMBING RISER DIAGRAM - 2ND FLOOR - WASTE + VENT **2**



PLUMBING RISER DIAGRAM - 1ST FLOOR - WASTE + VENT **1**

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA CODE OF REGULATIONS, CALIFORNIA ELECTRICAL CODE 2022 EDITION, ALL APPLICABLE LOCAL CODES AND REGULATIONS AND CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
- DURING BID, THE CONTRACTOR MUST EXAMINE THE COMPLETE SET OF DRAWINGS AND CONTRACT DOCUMENTS FOR ALL TRADES. COORDINATE AND VERIFY DIMENSIONS SPACE REQUIREMENTS AND POINTS OF CONNECTION TO ALL EQUIPMENT. MAKE ANY ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE STRUCTURAL AND THE WORK OF OTHER TRADES.
- THE CONTRACTOR IS ADVISED AND REMINDED THAT THEIR BEST EFFORTS AND THAT OF THE CONTRACTOR'S ORGANIZATION AND PERSONNEL ARE TO BE PROVIDED AS PART OF THE COORDINATED EFFORT INTENDED TO PROVIDE THE PROJECT OWNER AND THE ULTIMATE USERS AND OCCUPANTS WITH FINISHED PROJECT WHICH WILL SERVE ITS INTENDED PURPOSE.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL ELECTRICAL, MECHANICAL, PLUMBING AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.
- DEDICATED ELECTRICAL SPACE NEC 110.26(F); THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT (6 FT) ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
- SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS AND TRANSFORMERS, 120V FOR CONTROL SYSTEM, SWITCHES, TIME CLOCK, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATION, VAV BOXES, SMOKE FIRE DAMPERS, AND ETC. CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH DIVISION 22 & 23 PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY WIRING, DEVICES AND CONNECTIONS AS REQUIRED.
- CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTIONS AS REQUIRED TO ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.
- THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR AND APPLIANCE RATING AND LOADS IN ORDER TO PROVIDE CORRECT SIZED MOTOR RELATED ELECTRICAL COMPONENTS. THE CONTRACTOR SHALL SUBMIT TO ARCHITECT WITH REVISED DATA BEFORE INSTALLATION. ALL CHANGES SHALL BE SHOWN ON RECORD DRAWINGS.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE WITH U.L. REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
- WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
- LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGES. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, STROBES/HORNS, STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES, ETC. WITH TACK BOARDS, CABINETS, FURNITURE, EQUIPMENT ETC. TO AVOID CONFLICT.
- WHERE ELECTRIC MOTORS OR EQUIPMENT ARE INSTALLED IN HUNG CEILING, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
- PROVIDE APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS. PROVIDE PULL WIRE IN EACH RACEWAY RUN OVER 10 FEET IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
- NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED PROVIDE SEPARATE CONDUIT FOR EACH HOME RUN INDICATED ON THE DRAWING.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.
- LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK. OUTLETS SHALL BE HORIZONTALLY SEPARATED MIN. OF 24" FOR RATED WALL AND MIN. OF 18" FOR NON-RATED WALL.
- PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULLBOX SHALL COMPLY WITH NEC REQUIREMENTS.
- OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENINGS OPERATED BY REMOVAL OF FIXTURES.
- WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED. SWITCH(ES) CONTROLLING LIGHTS ON EMERGENCY CIRCUIT SHALL BE IN A SEPARATE BOX UNDER THE SAME COVER PLATE AS THE OTHER SWITCHES.
- PROVIDE GREEN GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, ETC. SIZE OF GROUNDING CONDUCTOR SHALL BE IN ACCORDANCE WITH CALIFORNIA ELECTRIC CODE ARTICLE 250.122.
- PROVIDE #10 CONDUCTORS FOR ALL 20 AMP CIRCUITS LONGER THAN 100' AND #8 CONDUCTORS FOR CIRCUITS LONGER THAN 225'. CONTRACTOR SHALL ADJUST THE SIZE OF CONDUITS ACCORDINGLY. FEEDER LENGTH SHOWN ON DRAWINGS ARE FOR VOLTAGE DROP CALCULATION AND NOT TO BE USED FOR COST ESTIMATING.
- WHERE CONDITIONS ARE SHOWN AS EXISTING, THEY ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS/DOCUMENTS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY. CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. THE ENGINEER WILL THEN PROVIDE ADDITIONAL INFORMATION NEEDED TO ACCOMPLISH THE DESIRED RESULT.
- CONTRACTOR SHALL PERMANENTLY LABEL CIRCUIT AND PANEL NAME ON ALL OUTLETS.
- FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
- CONTRACTOR SHALL LABEL ALL SWITCHED RECEPTACLES PER TITLE 24 REQUIREMENTS. FOR EACH FULL SWITCHED RECEPTACLE PROVIDE TWO LABELS, ONE ON EACH CORNER (TOP RIGHT AND BOTTOM RIGHT). FOR EACH HALF SWITCHED RECEPTACLE PROVIDE ONE LABEL ON TOP RIGHT CORNER. REFER TO LIGHTING CONTROL DIAGRAMS FOR VISUAL REPRESENTATION.
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY U.L.
- ALL SERVICE EQUIPMENT, SWITCHGEAR, DISTRIBUTION SYSTEM, AND PANELBOARDS SHALL BE FULLY RATED. SERIES RATED IS NOT ACCEPTABLE.

ABBREVIATIONS

A, AMPS	AMPERES	INCAND	INCANDESCENT
A/C	AIR CONDITIONER	JB	JUNCTION BOX
AC	ALTERNATE CURRENT	KCMIL	KILO CIRCULAR MILLS
AF	AMPERE FRAME	KV	KILOVOLTS
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT-AMPERES
AFG	ABOVE FINISHED GRADE	KW	KILOWATTS
AIC	AMPERE INTERRUPTION CURRENT	KWH	KILOWATT-HOURS
AL	ALUMINUM	LCP	LOW PRESSURE SODIUM
APP.	APPROXIMATE	LPS	LIGHTING CONTROL PANEL
ARCH	ARCHITECT/ARCHITECTURAL	LTG	LIGHTING
AT	AMPERES TRIP	LTS	LIGHTS
ATS	AUTOMATIC TRANSFER SWITCH	MA	MILLIAMPS
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
BC	BARE COPPER	MCA	MINIMUM CIRCUIT AMPACITY
BOP	BOILER CONTROL PANEL	MCC	MOTOR CONTROL CENTER
BKBD	BACKBOARD	MECH	MECHANICAL
BKR	BREAKER	MFG	MANUFACTURING
BLDG	BUILDING	MFR	MANUFACTURER
C	CONDUIT	MH	MANHOLE
CAB.	CABINET	MIC	MICROPHONE
CAT.	CATALOG	MIN	MINIMUM
CB	CIRCUIT BREAKER	MISC	MISCELLANEOUS
CC	CENTER TO CENTER	MLO	MAIN LUGS ONLY
CCTV	CLOSED CIRCUIT TELEVISION	MOCPP	MAXIMUM OVERCURRENT
CKT	CIRCUIT		PROTECTION
CL	CENTER LINE	MTD	MOUNTED
G	CEILING	MTG. HT.	MOUNTING HEIGHT
CLR	CLEAR	MSB	MAIN SWITCHBOARD
CONJ. ONLY	CONDUIT ONLY	MSG	MOTOR CONTROL CENTER
CONC.	CONCRETE	NV	MEDIUM VOLTAGE
CTR	CENTER	(N)	NEW
CU	COPPER	N	NEUTRAL
DIRCT. CURRENT	DIRECT CURRENT	NC	NURSE CALL, NORMALLY CLOSE
DET.	DETAIL	NIC	NOT IN CONTRACT
DIA	DIAMETER	NO	NORMALLY OPEN, NUMBER
DISC	DISCONNECT (SWITCH)	NTS	NOT TO SCALE
DIST	DISTRIBUTION	OC	ON CENTER
DO	DUCT ONLY WITH #12 TW	OH	OVERHEAD
	COPPER PULL WIRE OR 3/16"	P	PHASE
	DIAMETER NYLON PULL ROPE.	PH, Ø	PHASE
DP	DISTRIBUTION PANEL	PA	PUBLIC ADDRESS
DWG	DRAWING	PB	PUSHBUTTON
EM	EMERGENCY	PDU	POWER DISTRIBUTION UNIT
EM	EMERGENCY	PNL	PANEL
EMS	ENERGY MANAGEMENT SYSTEM	PP	POWER POLE
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
ENCL	ENCLOSURE/ENCLOSED	R	REQUIRED
ELR	END-OF-LINE RESISTOR	(RE)	NEW LOCATION OF
EPO	EMERGENCY POWER OFF		RELOCATED DEVICE
EQ	EQUAL	REC	RECEPTACLE
EQUIP	EQUIPMENT	(RL)	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER	RMS	ROOT MEAN SQUARE
(E)	EXISTING	REQD	REQUIRED
FA	FIRE ALARM	RS	RAPID START
FACP	FIRE ALARM CONTROL PANEL	RSC	RIGID STEEL CONDUIT
FLA	FULL LOAD AMPERES	SD	SMOKE DETECTOR
FLEX	FLEXIBLE	SEC	SECONDARY
FLUOR	FLUORESCENT	SN	SOLID NUTRAL
FUT, (F)	FUTURE	SPECS	SPECIFICATIONS
G	GROUND	SPKR	SPEAKER
GALV	GALVANIZED	STD	STANDARD
GEN	GENERATOR	SW	SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SWBD	SWITCHBOARD
GRS	GALVANIZED RIGID STEEL TUBE	SYM	SYMMETRICAL
HD	HANDHOLE	TCP	TEMPERATURE CONTROL PANEL
HH	HIGH INTENSITY DISCHARGE	TD	TIME DELAY
HO	HIGH OUTPUT	T, TEL	TELEPHONE
HOA	HAND-OFF-AUTO SELECTOR SWITCH	TYP	TYPICAL
	HORSEPOWER	UG	UNDERGROUND
HP	HIGH PRESSURE SODIUM	UL	UNDERWRITERS LABORATORIES
HPS	HIGH PRESSURE SODIUM HOUSE SERVICE PANEL	UN	UNLESS OTHERWISE NOTED
HSP	HIGH VOLTAGE	UON	UNDERGROUND
HV	HERTZ	V	VOLTS
HZ	INTERCOM	VP	VAPORPROOF
IC	ISOLATED GROUND INSTANTANEOUS INTERRUPTING SHORT CIRCUIT	W	WATTS
IG		WH	WATER HEATER
INST		WP	WEATHERPROOF
ISC		WTR	WATER TIGHT
		XFMR	TRANSFORMER
		XP	EXPLOSION PROOF
		+4-6"	TYPICAL MOUNTING HEIGHT 4'-6" ABOVE FLOOR OR GRADE TO CENTER OF BOX

APPLICABLE CODES

- 2019 BUILDING STANDARDS' ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
 - 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2018 INTERNATIONAL BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
 - 2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R.
 - 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24, C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
 - TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- PARTIAL LIST OF APPLICABLE STANDARDS:
- NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2019 EDITION
 - NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2019 EDITION
 - NFPA 17A WET CHEMICAL SYSTEMS 2019 EDITION
 - NFPA 24 PRIVATE FIRE MAINS (CA AMENDED) 2019 EDITION
 - NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2019 EDITION
 - REFERENCE CODE SECTION FOR NFPA STANDARDS, 2019 CBC (SFM) CHAPTER 35. ANSIA/SM E13.1.1.2

SHEET INDEX

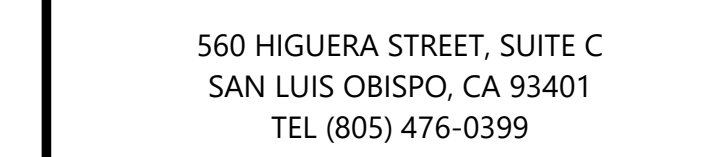
Sheet Number	Sheet Name
E-001	ELECTRICAL NOTES, ABBREVIATIONS & LEGENDS
E-010	ELECTRICAL TITLE 24 CALCULATIONS
E-011	ELECTRICAL TITLE 24 CALCULATIONS
E-101	SITE ELECTRICAL PLAN
E-102	SITE NORMAL PHOTOMETRICS
E-201	LEVEL 01 - POWER PLAN
E-202	LEVEL 02 - POWER PLAN
E-203	ROOF - POWER PLAN
E-301	LEVEL 01 - LIGHTING PLAN
E-302	LEVEL 02 - LIGHTING PLAN
E-303	LEVEL 01 - EMERGENCY PHOTOMETRICS
E-304	LEVEL 02 - EMERGENCY PHOTOMETRICS
E-305	LEVEL 01 - NORMAL PHOTOMETRICS
E-306	LEVEL 02 - NORMAL PHOTOMETRICS
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-611	ELECTRICAL PANEL SCHEDULES
E-612	ELECTRICAL PANEL SCHEDULES
E-701	ELECTRICAL SINGLE LINE DIAGRAM & FIXTURE SCHEDULE

ELECTRICAL LEGEND

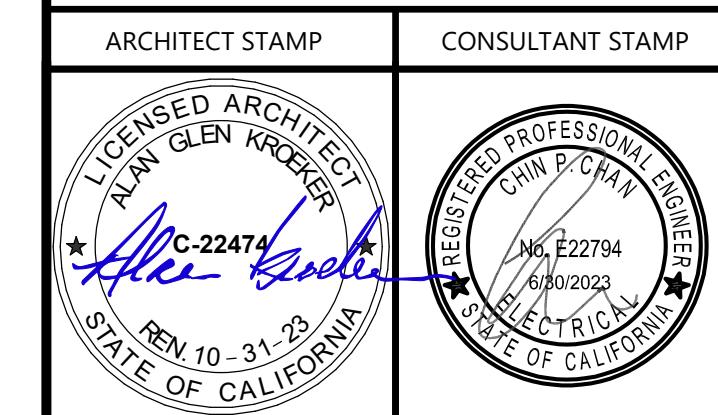
GENERAL	RECEPTACLES (+18" AFF, U.O.N.)	COMMUNICATIONS (+18 AFF, U.O.N)	RACEWAY AND WIRING
JUNCTION BOX WITH COVER	SINGLE OUTLET RECEPTACLE	TELEPHONE OUTLET, WALL MOUNTED	CONDUIT AND CONDUCTORS INSTALLED UNDERGROUND OR BELOW SLAB
JUNCTION BOX WALL MOUNTED +18" AFF, U.O.N.	DUPLEX OUTLET RECEPTACLE	WALL MOUNTED COMMUNICATION OUTLET, WALL MOUNTED +18" U.O.N.	CONDUIT AND CONDUCTORS INSTALLED EXPOSED
JUNCTION BOX FLUSHED IN FLOOR	WP - WEATHERPROOF	AV OUTLET	CONDUIT AND CONDUCTORS INSTALLED CONCEALED IN CEILING AND WALL
ENCLOSED CIRCUIT BREAKER	GFCI-GROUND FAULT CIRCUIT INTERRUPTER	TELECOMMUNICATION OUTLET, WALL MOUNTED +18" U.O.N.	HOMERUN TO SWITCHBOARD, PANELBOARD, TERMINAL CABINET, ETC.
MOTION DETECTOR	USB - PROVIDE USB PARTS. SEE DETAIL AND DEVICE SCHEDULE	FLOOR TELECOMMUNICATION OUTLET	DENOTES GROUND WIRE
RELAY	CONTROLLED - (1) ONE CONTROLLED AND (1) ONE UNCONTROLLED SINGLE PLEX COMBINATION RECEPTACLE	TELECOMMUNICATION OUTLET, CEILING MOUNTED	CROSS LINES DENOTES QUANTITY OF #12 CONDUCTORS UNLESS NOTED OTHERWISE
RECEPTACLE CONTROL RELAY	DEDICATED - DEDICATED DUPLEX OUTLET	FLOOR COMMUNICATION OUTLET	CROSS LINES DENOTES 2#12 & #12 G UNLESS NOTED OTHERWISE
ROOM CONTROLLER	20A-120V TWO DUPLEX RECEPTACLE OUTLET IN ONE COVER PLATE, WALL MOUNTED +18" U.O.N.	POKE-THRU	WIRING TURNED UP
EMERGENCY RELAY	20A-120V CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE	JUNCTION BOX WITH 1.25" BACK TO JDF ROOM UON. REFER TO AV DRAWINGS FOR ADDITIONAL INFORMATION	WIRING TURNED DOWN
TIME CLOCK	20A-120V DUPLEX FLOOR RECEPTACLE OUTLET		CONDUIT OR DUCT STUB AND CAP
PUSH BUTTON	SPECIAL RECEPTACLE OUTLET. AMPERE, VOLTAGE, PHASE AND NEMA RATING AS NOTED ON THE DRAWINGS (NEMA 6-30R)		CONDUIT SEAL CROUSE-HINDS "EYS"
DOOR CONTACT	FLOOR MOUNTED COMBINATION RECEPTACLE AND TELE/DATA. SIZE AND TYPE PER PLAN.		CONDUIT AND CONDUCTORS ON EMERGENCY CIRCUIT
CONTACTOR	MODULAR FURNITURE- BASE POWER WHIP FEED CONNECTION		METAL CLAD CABLE
MOTOR	POWER POLE		
GENERATOR	TELE/POWER POLE		
COMBINATION MAGNETIC MOTOR STARTER WITH FUSED DISCONNECT SWITCH	NOTE: ALL RECEPTACLES BE 20A, 120V, U.O.N.		
VARIABLE FREQUENCY DRIVE WITH DISCONNECT SWITCH			
HEAVY-DUTY FUSED DISCONNECT SWITCH, N.F. DENOTES NON FUSED, MOUNTED +6'-6" MAXIMUM			

LEGEND CONTINUED

GENERAL POWER
FLUSH MOUNTED PANELBOARD - SEE SCHEDULES
SURFACE MOUNTED PANELBOARD - SEE SCHEDULES
SWITCHBOARD, DISTRIBUTION PANEL, MCC - SEE SINGLE LINE DIAGRAM
RECESS MOUNTED TERMINAL CABINET/CONTROL PANEL
SURFACE MOUNTED TERMINAL CABINET/CONTROL PANEL
CABLE TRAY
FEEDER BUS DUCT
HEATER CONNECTION
TRANSFORMER
SHUNT TRIP PUSH-BUTTON STATION
EMERGENCY POWER OFF
PHOTOELECTRIC CONTROL



- CONSULTANTS
- CIVIL ENGINEER: DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI), 705 FIERO LANE, SUITE 10, SANTA MARIA, CA 92103, TEL (760) 220-6811
 - LANDSCAPE ARCHITECT: KTUA, 540 E. BETTERAVIA ROAD, SUITE D 22, SANTA MARIA, CA 92103, TEL (760) 220-6811
 - STRUCTURAL ENGINEER: 195X STRUCTURAL DIVISION, 1119 GARDEN STREET, SANTA BARBARA, CA 93101, TEL (805) 963-1210
 - M.E.P. ENGINEER: ALFATECH, 421 E. HUNTINGTON DRIVE, MONROVIA, CA 91016, TEL (626) 803-0005
 - FIRE PROTECTION ENGINEER: ALPHA FIRE UNLIMITED, 650 SWEENEY LANE, SAN LUIS OBISPO, CA 93401, TEL (805) 541-2527
 - FIRE ALARM ENGINEER: DEEP BLUE INTEGRATION INC., 3442 EMPRESA DR, SUITE C, SAN LUIS OBISPO, CA 93401, TEL (888) 600-0324



NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	MB COMMENT REVISION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA

SHEET TITLE

ELECTRICAL NOTES, ABBREVIATIONS & LEGENDS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-001

DATE: APRIL 11, 2023

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

Table with 4 columns: Item, Location, Description, and Value. Includes Project Location (SAN LUIS OBISPO), Climate Zone (5), and Occupancy Types (Classroom, Convention Center, Office, Support Areas).

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Table with 5 columns: Scope of Work, Calculation Method, Area (ft²), Calculation Method, and Area (ft²). Shows lighting system details for New Lighting System and New Lighting System - Parking Garage.

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

Table with 9 columns: Lighting in conditioned and unconditioned spaces, Allowed Lighting Power per §140.6(b), Adjusted Lighting Power per §140.6(a), Compliance Results, and Total Area of Work (ft²).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

H. INDOOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls Table with 12 columns: 04-12, including Area Description, Complete Building or Area Category Primary Function Area, Area Controls, Multi-Level Controls, Shut-Off Controls, Primary/Sky In Daylighting, Secondary Daylighting, Interlocked Systems, and Field Inspector.

Table with 12 columns: 04-12, including Area Description, Complete Building or Area Category Primary Function Area, Area Controls, Multi-Level Controls, Shut-Off Controls, Primary/Sky In Daylighting, Secondary Daylighting, Interlocked Systems, and Field Inspector.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

C. COMPLIANCE RESULTS Controls Compliance (See Table H for Details) COMPLIES. Rated Power Reduction Compliance (See Table Q for Details).

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

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

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all permanent designed lighting and all portable lighting in offices.

Table with 10 columns: 01-10, including Name or Item Tag, Complete Luminaire Description, (Modular) Fixture, Small Aperture & Color Change, Watts per luminaire, How is Wattage determined, Total Number of Luminaires, Excluded per §140.6(a)3, Design Watts, and Field Inspector (Pass/Fail).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

H. INDOOR LIGHTING CONTROLS (Not including PAFs) NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2.

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(d) are being used.

Table with 6 columns: 01-06, including Area Description, Complete Building or Area Category Primary Function Area, Allowed Density (W/ft²), Area (ft²), Allowed Wattage (Watts), and Additional Allowance / Adjustment.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Alfa Tech. Signature Date: 2022-11-01. Address: 421 E. Huntington Drive, Monrovia CA 91016.

RESPONSIBLE PERSON'S DECLARATION STATEMENT I verify 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 eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

F. INDOOR LIGHTING FIXTURE SCHEDULE FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §130.6(a)3B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved.

Table with 3 columns: 01, 02, 03, including Mandatory Demand Response §130.12(c), Shut-off controls §130.1(c), and Field Inspector (Pass/Fail).

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STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE CAL POLY TECH PARK 1 GRAND AVENUE

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.

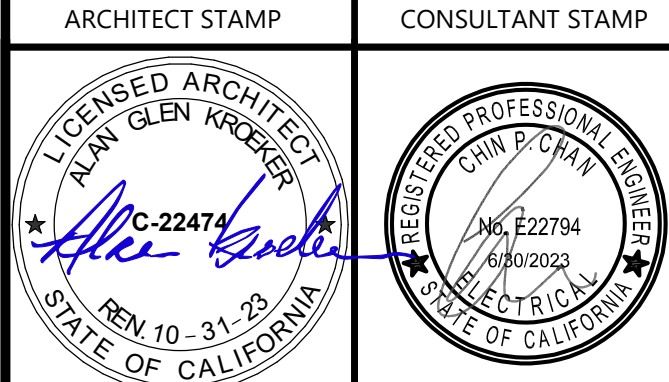
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance. Registration Date/Time: 2022-11-01 11:38:17. Registration Provider: Energysoft.



560 HIGUERA STREET, SUITE C SAN LUIS OBISPO, CA 93401 TEL (805) 476-0399

- CONSULTANTS CIVIL ENGINEER DIVERSIFIED PRODUCT SERVICES INTERNATIONAL (DPSI) 705 PIEDRO LANE, SUITE 10 SAN LUIS OBISPO, CA 93401 TEL (805) 250-2891, FAX (805) 280-2896 LANDSCAPE ARCHITECT KTUA 540 E. BETTERAVIA ROAD, SUITE 22 SANTA MARIA, CA 92103 TEL (760) 220-6811 STRUCTURAL ENGINEER STYX STRUCTURAL DIVISION 1119 GARDEN STREET SANTA BARBARA, CA 93101 TEL (805) 963-1210 M.E.P. ENGINEER ALFATECH 421 E. HUNTINGTON DRIVE MONROVIA, CA 91016 TEL (626) 803-0005 FIRE PROTECTION ENGINEER ALPHA FIRE UNLIMITED 650 SWEENEY LANE SAN LUIS OBISPO, CA 93401 TEL (805) 541-2527 FIRE ALARM ENGINEER DEEP BLUE INTEGRATION INC. 3442 EMPRESA DR. SUITE C SAN LUIS OBISPO, CA 93401 TEL (888) 600-0324



REVISIONS table with columns: NO., DATE, DESCRIPTION. Includes revisions for 2022-12-22 (ISSUE FOR PLAN CHECK), 2023-03-08 (100% CD), and 2023-08-09 (MR COMMENT REVISION).

PROJECT OWNER & TITLE CAL POLY UNIVERSITY SAN LUIS OBISPO 1 Grand Avenue San Luis Obispo, CA 93407

CAL POLY TECH PARK - PHASE 2 Mount Bishop Road San Luis Obispo, CA

SHEET TITLE ELECTRICAL TITLE 24 CALCULATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO. E-010 DATE: APRIL 11, 2023

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 1 of 8)
Project Address: 2023-03-09T17:58:58-05:00

A. GENERAL INFORMATION

01 Project Location (city) San Luis Obispo
02 Climate Zone 5
04 Total Illuminated Hardscape Area (ft²) 27000
03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):
LZ-0: Very Low - Undeveloped Parkland
LZ-1: Low - Developed Parkland
LZ-2: Moderate - Rural Areas
LZ-3: Moderately High - Urban Areas

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 or §141.0(b)(2), for alterations.
My Project Consists of:
New Lighting System
Altered Lighting System
% of Existing Luminaires Being Altered¹
Sum Total of Luminaires Being Added or Altered
Calculation Method

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.

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 4 of 8)
Project Address: 2023-03-09T17:58:58-05:00

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 untouched) 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.

Table with columns: 01 Area Description, 02 Shut-Off §130.2(c)(1), 03 Auto-Schedule §130.2(c)(2), 04 Motion Sensor §130.2(c)(3), 05 Field Inspector. Includes rows for Electrical 112: S3, Corridor 104: S3, Lobby 101: S3, Elev. Equip 103: S3, 2nd Floor Stair Landing: S3, Building Perimeter Pedestrian Walkway: S2.

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off. EXCEPTION 1 to §130.2(c)

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" allowances are per Table 140.7-B. 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 shall not qualify for another "Use it or lose it" allowance.

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 7 of 8)
Project Address: 2023-03-09T17:58:58-05:00

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Table with columns: Form/Title, Systems/Spaces To Be Field Verified. Includes row for NRCA-ITO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

Registration Number:
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Report Version: 2019.1.003
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Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 2 of 8)
Project Address: 2023-03-09T17:58:58-05:00

C. COMPLIANCE RESULTS

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

Table with columns: 01 General Hardscape Allowance, 02 Per Application, 03 Sales Frontage, 04 Ornamental, 05 Per Specific Area, 06 Existing Power Allowance, 07 Total Allowed (Watts), 08 Total Actual (Watts), 09 Compliance Results. Includes row for 350 + 90 + NA + NA + 14 OR NA = 454 >= 435.6 COMPLIES.

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form. Linear lighting has been indicated on Table F. For these luminaires, wattage reported in F03 is in "W/ft" and Total Number Luminaires reported in F05 indicates total linear feet (lf) of the luminaire type.

E. ADDITIONAL REMARKS

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

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 5 of 8)
Project Address: 2023-03-09T17:58:58-05:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B.

Table with columns: 01 Area Description, 02 Application per Table 140.7-B¹, 03 # of Locations, 04 Allowance per Location², 05 Extra Allowance (Watts), 06 Luminaire Name or Item Tag, 07 Watts per Luminaire, 08 # of Luminaires, 09 Design Watts, 10 Additional Allowance (Watts). Includes rows for Electrical 112, Corridor 104, Lobby 101, Elev. Equip 103, 2nd Floor Stair Landing.

¹ FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
² The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B.
³ For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 8 of 8)
Project Address: 2023-03-09T17:58:58-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Penn Chan
Company: Alfa Tech Consulting Engineer
Address: 421 E. Huntington Drive
City/State/Zip: Monrovia, CA 91016

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 eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Penn Chan
Company: Alfa Tech Consulting Engineer
Address: 421 E. Huntington Drive
City/State/Zip: Monrovia, CA 91016

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 3 of 8)
Project Address: 2023-03-09T17:58:58-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7, 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 altered 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 (ie, existing luminaires remaining or existing luminaires being moved are not included).

Table with columns: 01 Name or Item Tag, 02 Complete Luminaire Description, 03 Watts per luminaire³, 04 How is Wattage determined, 05 Total number Luminaires², 06 Luminaire Status², 07 Excluded per §140.7(a), 08 Design Watts, 09 Cutoff Req. > 6,200 initial lumen output §130.2(b)⁴, 10 Field Inspector. Includes rows for S1 Post Top, S2 Bollard, S3 Wall Pack, S4 Linear, S5 Wall Pack.

* 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)
¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
² For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
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 Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

STATE OF CALIFORNIA

Outdoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Cal Poly SLO Tech Park
Report Page: (Page 6 of 8)
Project Address: 2023-03-09T17:58:58-05:00

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

Table with columns: 01 Area Description, 02 Specific Area Type per Table 140.7-B, 03 Specific Area (ft²), 04 Allowed Density (W/ft²), 05 Extra Allowance (Watts), 06 Luminaire Name or Item Tag, 07 Watts per Luminaire, 08 # of Luminaires, 09 Design Watts, 10 Additional Allowance (Watts). Includes row for Building Perimeter Pedestrian Walkway.

¹ FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft²) for these additional lighting allowances.
² For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

NRCL-ITO-01-E - Must be submitted for all buildings
Form/Title
NRCL-ITO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

Registration Number:
Generated Date/Time:
Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Compliance ID: 94005
Report Generated: 2023-03-09 14:59:01

AGENCY APPROVAL DSAE 03-122884

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Approved by: [Signature] 07/18/2023

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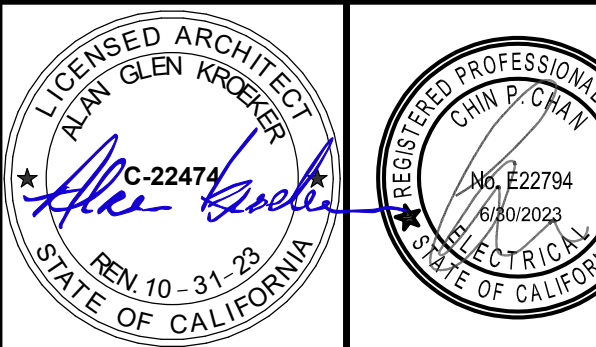


Table with columns: NO., DATE, DESCRIPTION. Includes rows for 2022-12-22 ISSUE FOR PLAN CHECK, 2023-03-08 100% CD, 2023-08-09 MR COMMENT REVISION.

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CAL POLY TECH
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SHEET TITLE

ELECTRICAL TITLE 24
CALCULATIONS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-011

DATE: APRIL 11, 2023

KEYNOTE LEGEND

1. PROVIDE 11x17 PULLBOX LABELED "LIGHTING", DEPTH AS REQUIRED.
2. PROVIDE 17X30 PULLBOX LABELED "ELECTRICAL", DEPTH AS REQUIRED. STUB (5) 2" C.O. PVC WITH PULLSTRING. ROUTE CONDUIT TO PANEL. EV FOR FUTURE EV CHARGER.
3. PROVIDE 17X30 PULLBOX LABELED "DATA", DEPTH AS REQUIRED. STUB (5) 2" C.O. PVC WITH PULLSTRING. ROUTE CONDUIT TO IT CLOSET. VERIFY ROUTING PRIOR TO ROUGH-IN.
4. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA TITLE 24 COMPLIANT ASTRONOMICAL TIME CLOCK. COORDINATE WITH LIGHTING CONTROL MANUFACTURER FOR EXACT PARTS AND REQUIREMENTS.

GENERAL NOTES:

- A. ALL SITE LIGHTING CONNECTIONS SHALL BE IN COMPLIANCE WITH THE BURIAL DEPTH REQUIREMENT OF CEC 300.5.



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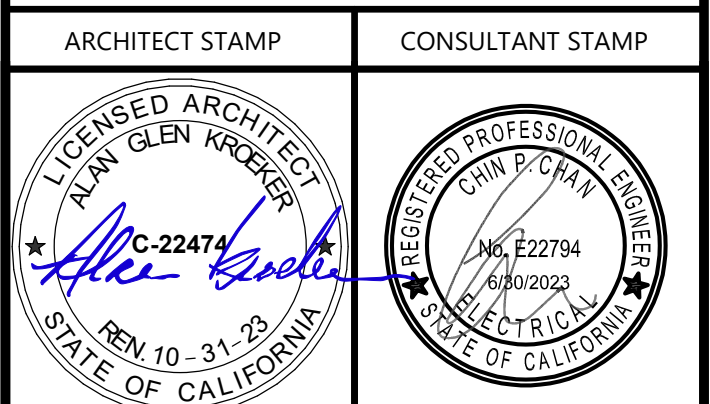
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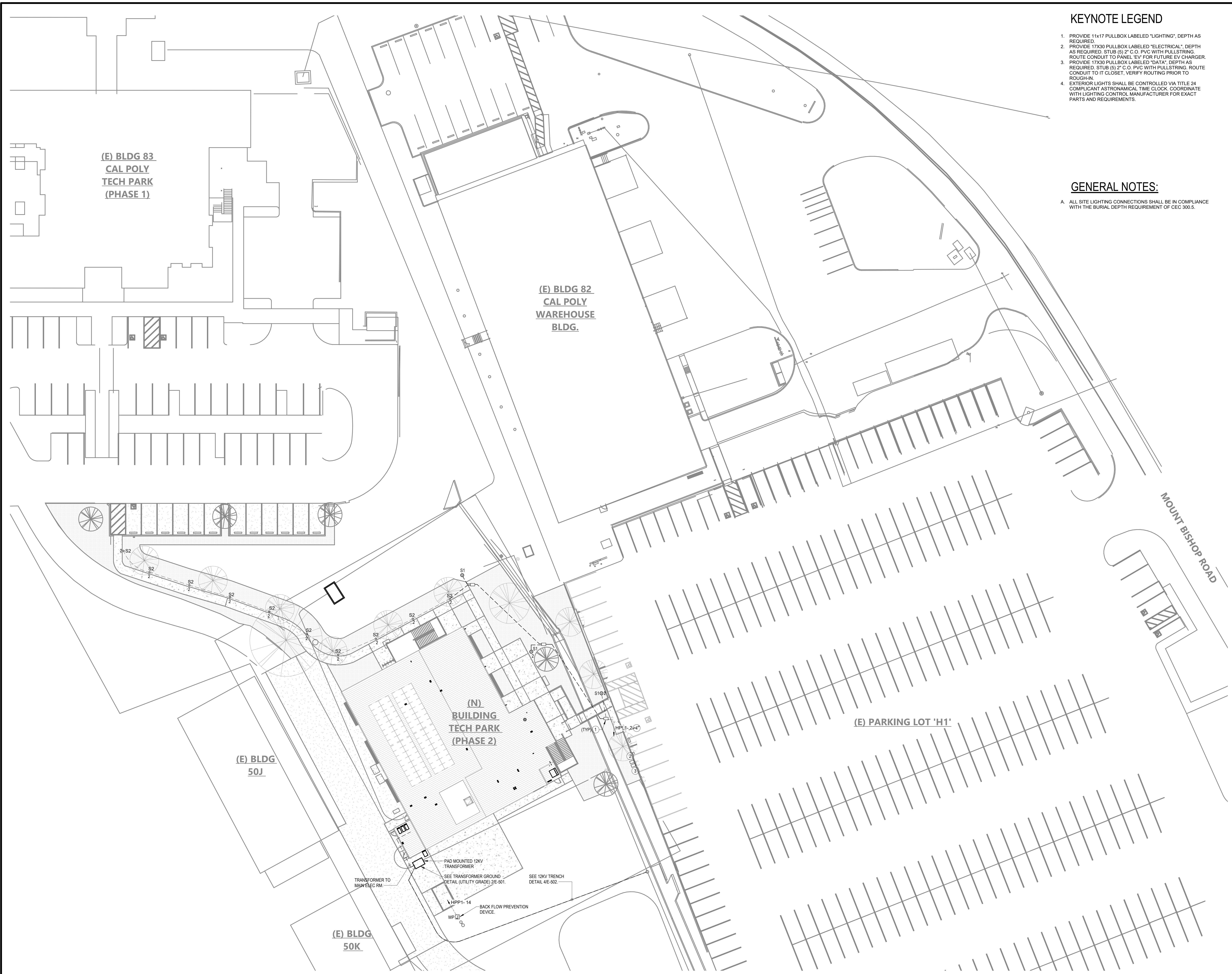
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SITE ELECTRICAL PLAN

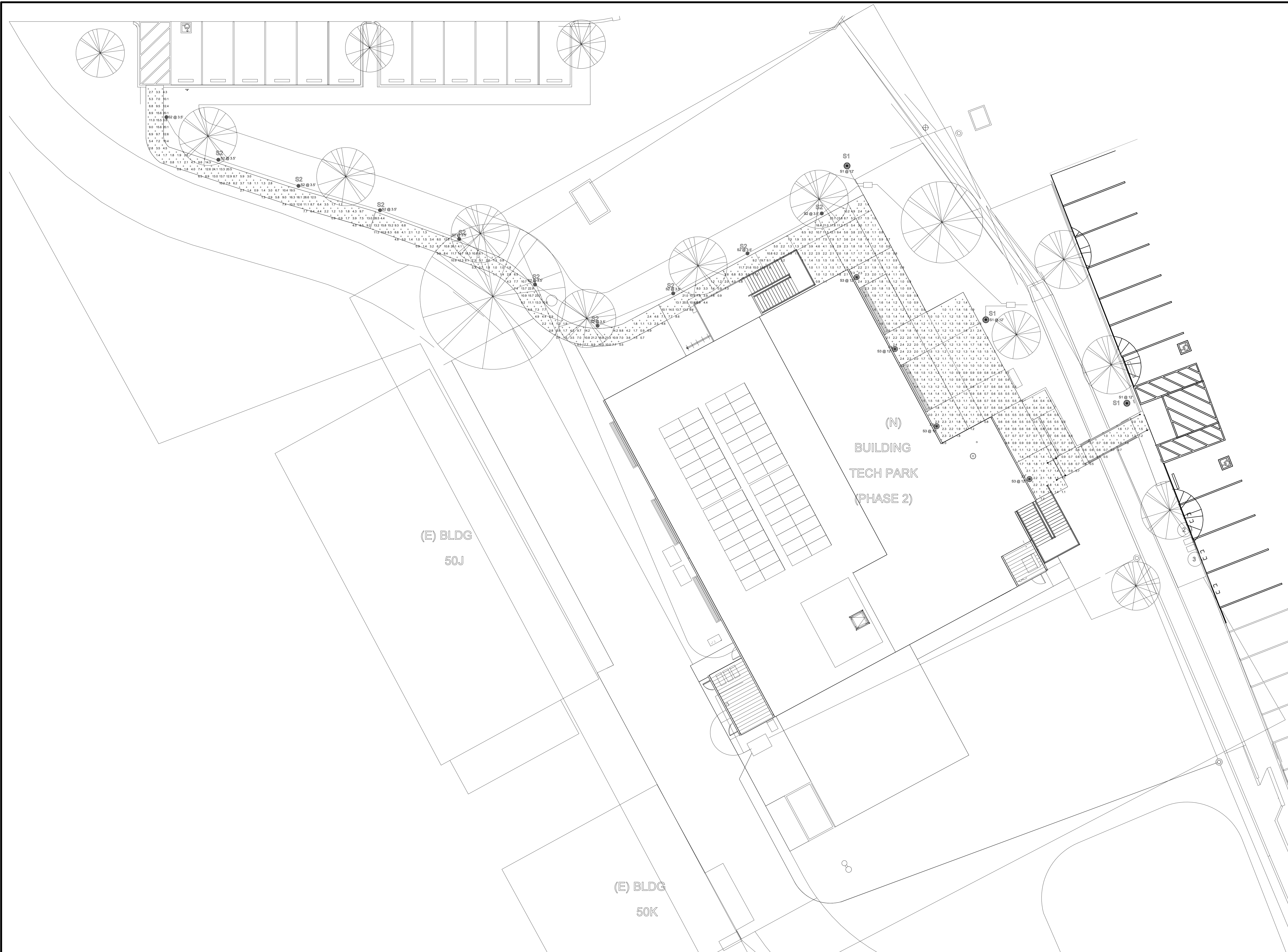
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FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt DATE PLOTTED: 6/7/2023 4:26:39 PM

CONSTRUCTION DOCUMENTS



Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	S1	3	LIGMAN	DU-20106-2-W40-Rev.2	Duomo single medium shade post top LED	1	1784	0.9	41.2
	S2	10	Lithonia Lighting	DSXB LED 16C 700 40K SYM	D-SERIES BOLLARD WITH 16 4000K LEDS OPERATED AT 700mA AND SYMMETRIC DISTRIBUTION	1	3009	0.9	39
	S3	4	LIGMAN	DU-30136-1-W40-Rev.2	Duomo medium shade wall light LED	1	1654	0.9	41.2

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
WALKWAY	+	3.6 fc	28.6 fc	0.5 fc	71.5:1	9.0:1

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Approved by: 07/18/2023

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SHEET TITLE

SITE NORMAL PHOTOMETRICS

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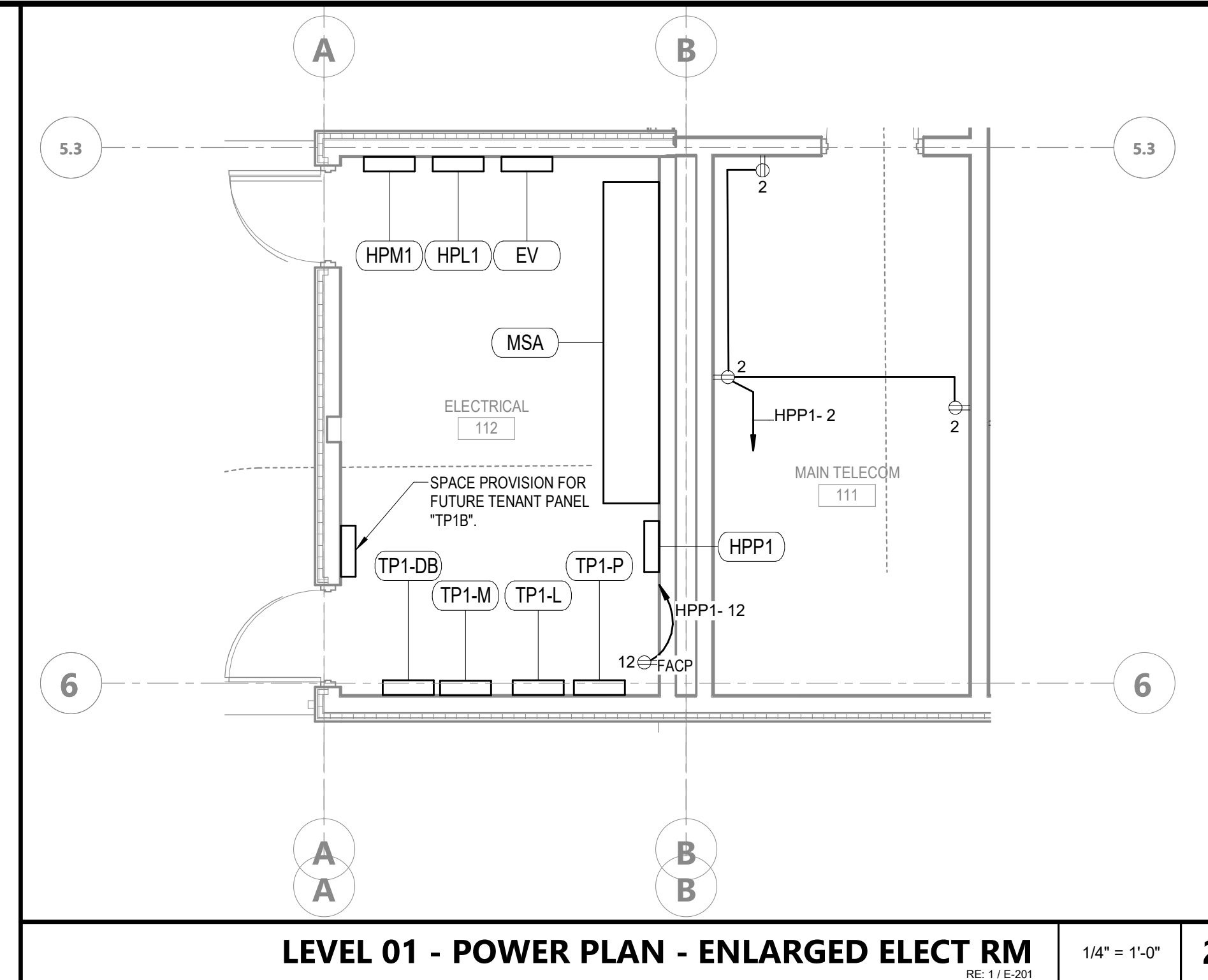
DATE: APRIL 11, 2023

DATE PLOTTED: 6/7/2023 4:26:42 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt

EQUIPMENT CONNECTION SCHEDULE					EQUIPMENT CONNECTION SCHEDULE				
ITEM NO.	VOLTAGE / PHASE	MCA	MOCP	WIRE SIZE	ITEM NO.	VOLTAGE / PHASE	MCA	MOCP	WIRE SIZE
HRU-1	208/1	0.1	30AS/15AF/2P	2#12 & 1#12GND - 3/4"	ODU-1	208/3	51.1	100AS/70AF/3P	3#4 & 1#8GND - 1 1/4"
HRU-2	208/1	0.1	30AS/15AF/2P	2#12 & 1#12GND - 3/4"	ODU-2	208/3	51.1	100AS/70AF/3P	3#4 & 1#8GND - 1 1/4"
HRU-3	208/1	0.1	30AS/15AF/2P	2#12 & 1#12GND - 3/4"	ODU-3	208/3	28.5	60AS/40AF/3P	3#8 & 1#10GND - 1"

EXHAUST FANS - EQUIPMENT CONNECTION SCHEDULE					INDOOR FAN COIL - EQUIPMENT CONNECTION SCHEDULE				
ITEM NO.	VOLTAGE / PHASE	HP	MOCP	WIRE SIZE	ITEM NO.	VOLTAGE / PHASE	MCA	MOCP	WIRE SIZE
SF-1	208/1	1.5	30AS/20AF/2P	2#12 & 1#12GND - 3/4"	FCU-1	208/1	2.9	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
SF-2	208/1	1	30AS/15AF/2P	2#12 & 1#12GND - 3/4"	FCU-2	208/1	2.5	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
GEF-1	120/1	1/4	15A/1P	2#12 & 1#12GND - 3/4"	FCU-3	208/1	2.5	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
EF-1	120/1	0.5	15A/1P	2#12 & 1#12GND - 3/4"	FCU-4	208/1	3.4	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
BEF-1	120/1	0.05	15A/1P	2#12 & 1#12GND - 3/4"	FCU-5	208/1	3.4	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
BEF-2	120/1	0.05	15A/1P	2#12 & 1#12GND - 3/4"	FCU-6	208/1	3.4	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
BEF-3	120/1	0.05	15A/1P	2#12 & 1#12GND - 3/4"	FCU-7	208/1	2.9	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
BEF-4	120/1	0.05	15A/1P	2#12 & 1#12GND - 3/4"	FCU-8	208/1	2.9	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
BEF-5	120/1	0.05	15A/1P	2#12 & 1#12GND - 3/4"	FCU-9	208/1	1.6	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
					FCU-10	208/1	1.6	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
					FCU-11	208/1	2.5	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
					FCU-12	208/1	2.5	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
					FCU-13	208/1			

EQUIPMENT CONNECTION SCHEDULE					INDOOR UNITS POWERED BY OUTDOOR UNITS				
ITEM NO.	VOLTAGE / PHASE	MCA	MOCP	WIRE SIZE	ITEM NO.	VOLTAGE / PHASE	MCA	MOCP	WIRE SIZE
CU-1	208/1	10	30AS/15AF/2P	2#12 & 1#12GND - 3/4"	ACU-1	208/1	-	30AS/15AF/2P	2#12 & 1#12GND - 3/4"
CU-2	208/1	19	30AS/20AF/2P	2#12 & 1#12GND - 3/4"	ACU-2	208/1	-	30AS/20AF/2P	2#12 & 1#12GND - 3/4"



KEYNOTE LEGEND

- 3 DEDICATED MACHINE ROOM LIGHTING CIRCUIT.
- 4 DEDICATED CAB LIGHTING CIRCUIT.
- 5 CONNECT TO ELEVATOR MOTOR CONTROLLER(S). LOCATE AND LABEL DISCONNECT SWITCH(S) PER CODE REQUIREMENTS.
- 6 PROVIDE LOCKABLE 20A FUSED SWITCH AND EXTEND CIRCUIT TO ELEVATOR GROUP CONTROLLER(S) IF REQUIRED. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO RUGH-IN.
- 7 PROVIDE 1/2" WITH REQUIRED CONDUCTORS FROM DISCONNECT SWITCH AUXILIARY CONTACTS TO ELEVATOR CONTROLLER. COORDINATE REQUIREMENTS WITH ELEVATOR CONTRACTOR AND G.C. PRIOR TO RUGH-IN'S.
- 8 CONNECT TO ELEVATOR CAB LIGHTING, CAB RECEPTACLE, CAB VENTILATION AND/OR CAB AIR CONDITIONING/HEATING UNITS. PROVIDE A MINIMUM OF (1) 2 POLE, 30AF LOCKABLE FUSED DISCONNECT WITH 20A FUSES IN COMPLIANCE WITH NEC (CEC WHERE ADOPTED) ART 620.22 & 620.53.
- 11 PROVIDE 3/4" O.D. (S) TO RESPECTIVE CONTROL DEVICES (S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
- 14 PROVIDE JELLY JAR LIGHT FIXTURE WITH LINE VOLTAGE SWITCH IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLER PRIOR TO RUGH-IN. INSTALLATION SHALL COMPLY WITH NEC (CEC WHERE ADOPTED) CODE REQUIREMENTS.
- 15 PROVIDE GFCI RECEPTACLE IN ELEVATOR PIT. INSTALLATION SHALL COMPLY WITH NEC (CEC WHERE ADOPTED) CODE REQUIREMENTS.
- 16 PROVIDE 1" PROVISION FROM THIS LOCATION TO PANEL TP1B FOR FUTURE TENANT PANEL CONNECTION.
- 18 POWER CONNECTION TO THE HAND DRYER. VERIFY EXACT LOCATION.

AGENCY APPROVAL **CSU** 03-122884

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SHEET TITLE

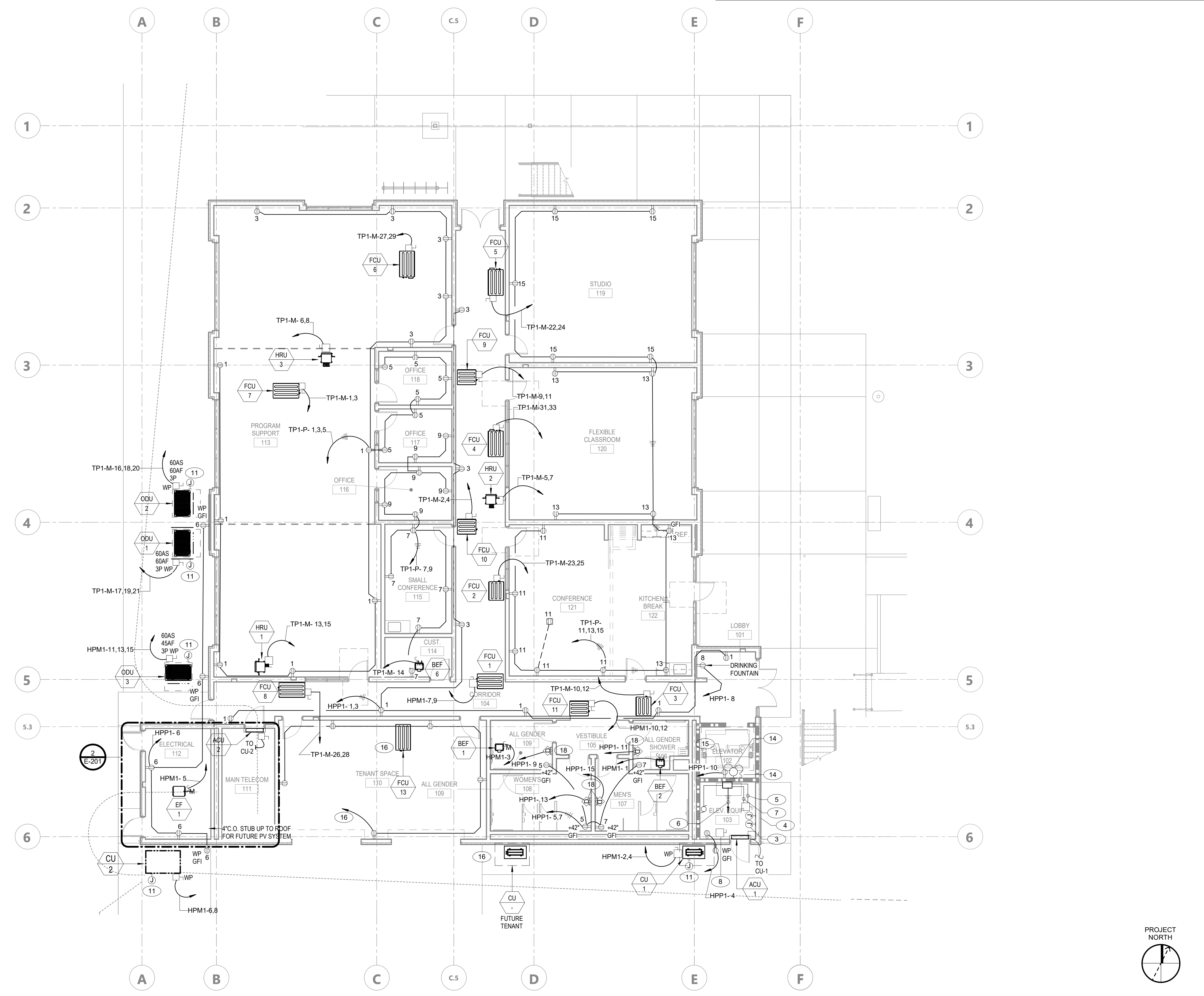
LEVEL 01 - POWER PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-201

DATE: APRIL 11, 2023

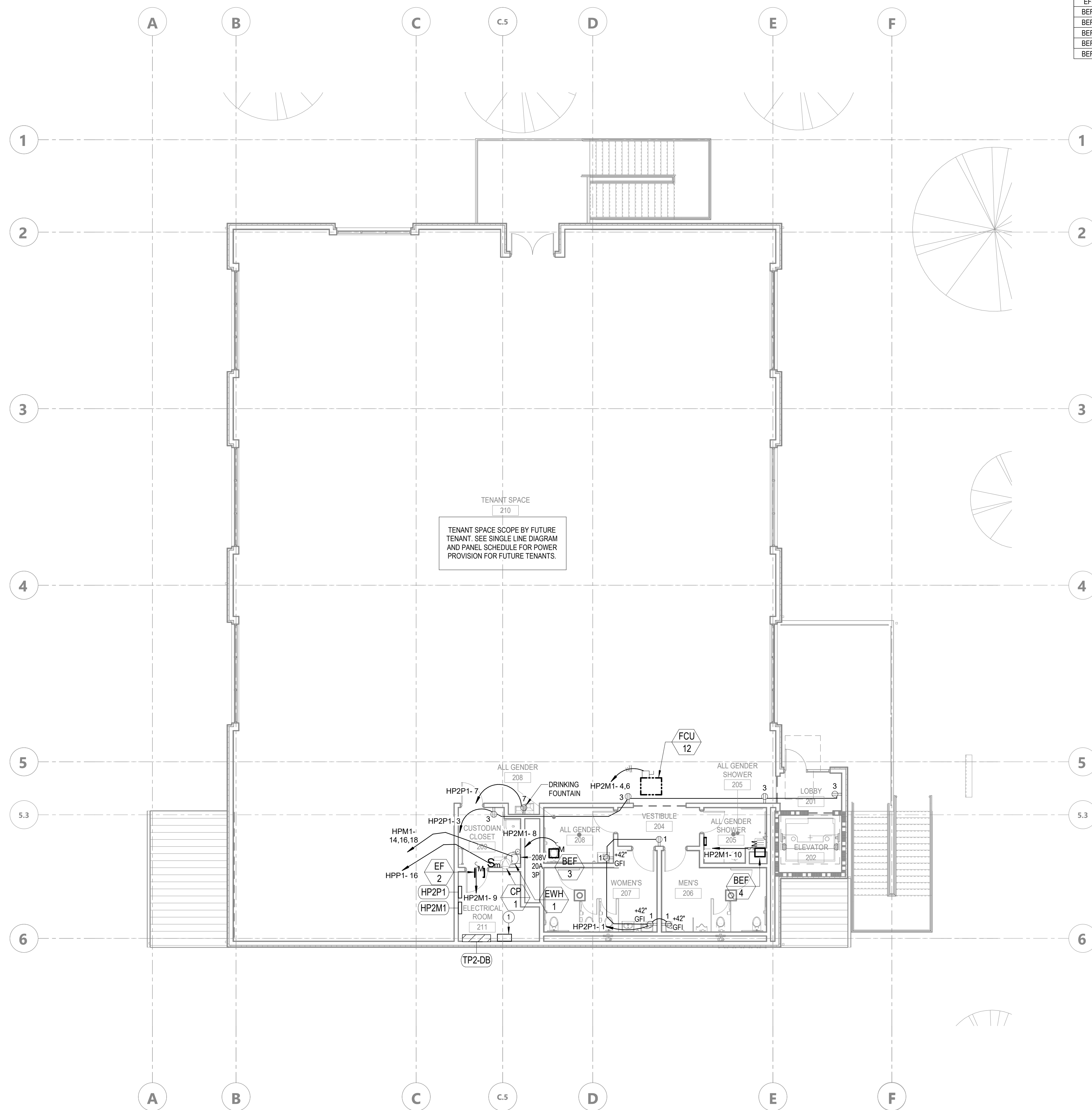


LEVEL 01 - POWER PLAN 1/8" = 1'-0" 1

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt

DATE PLOTTED: 6/7/2023 4:26:44 PM



INDOOR FAN COIL - EQUIPMENT CONNECTION SCHEDULE				
ITEM NO.	VOLTAGE / PHASE	MCA	MOCF	WIRE SIZE
FCU-1	208/1	2.9	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-2	208/1	2.5	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-3	208/1	2.5	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-4	208/1	3.4	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-5	208/1	3.4	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-6	208/1	3.4	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-7	208/1	2.9	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-8	208/1	2.9	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-9	208/1	1.6	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-10	208/1	1.6	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-11	208/1	2.5	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-12	208/1	2.5	30ASH15AF/2P	2#12 & 1#12GND - 34°C
FCU-13	208/1			

EXHAUST FANS - EQUIPMENT CONNECTION SCHEDULE				
ITEM NO.	VOLTAGE / PHASE	HP	MOCF	WIRE SIZE
SF-1	208/1	1.5	30AS/20AF/2P	2#12 & 1#12GND - 34°C
SF-2	208/1	1	30AS/15AF/2P	2#12 & 1#12GND - 34°C
GEF-1	120/1	1/4	15A/1P	2#12 & 1#12GND - 34°C
EF-1	120/1	0.5	15A/1P	2#12 & 1#12GND - 34°C
EF-1	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-1	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-2	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-3	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-4	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-5	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C

KEYNOTE LEGEND

- 1. BOX FOR CONNECTIONS TO FUTURE METERS.

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SHEET TITLE

LEVEL 02 - POWER PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

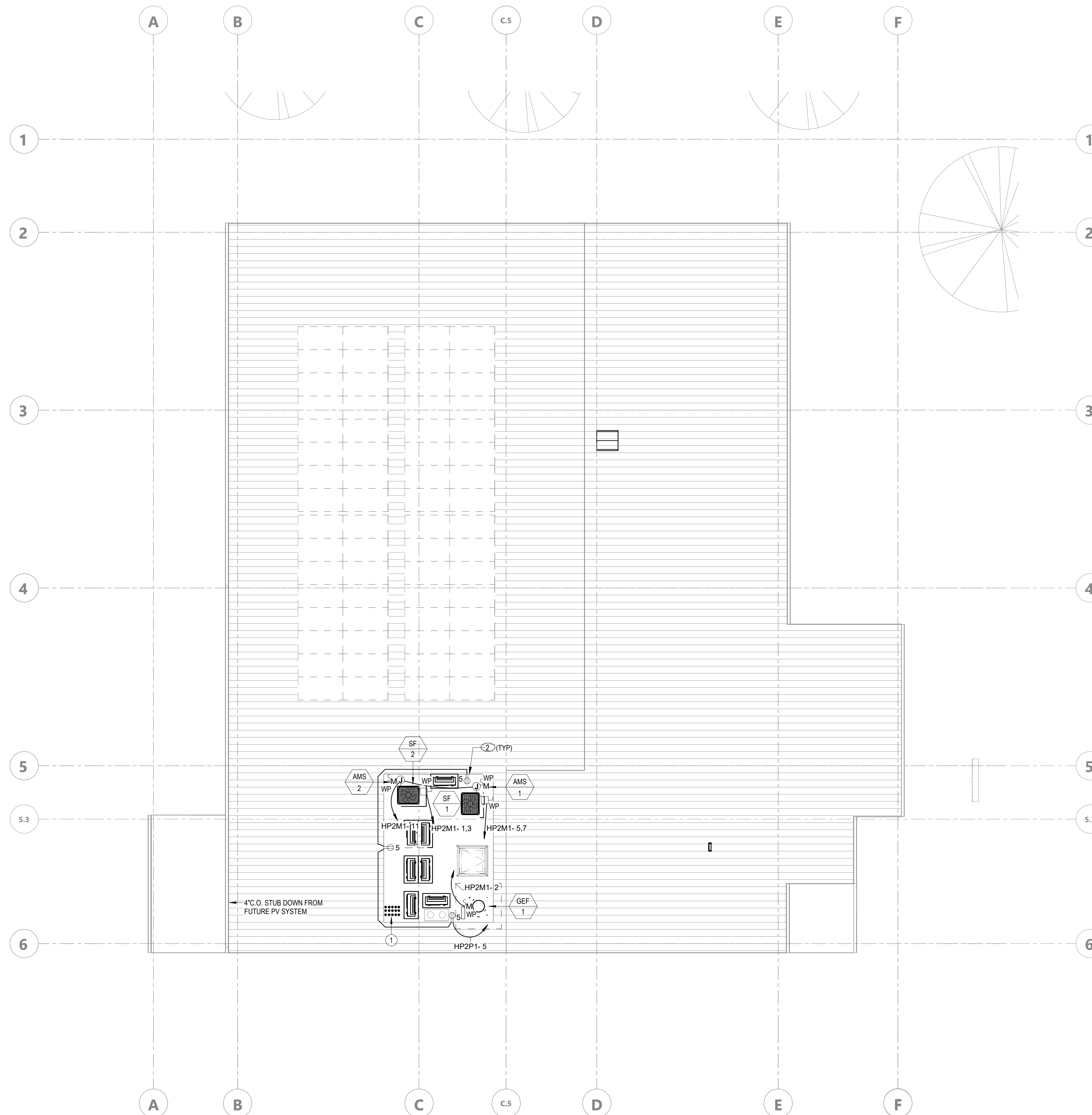
E-202

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt
DATE PLOTTED: 6/7/2023 4:26:45 PM

EXHAUST FANS - EQUIPMENT CONNECTION SCHEDULE				
ITEM NO.	VOLTAGE/ PHASE	HP	MOCF	WIRE SIZE
SF-1	208/1	1.5	30AS/20AF/2P	2#12 & 1#12GND - 34°C
SF-2	208/1	1	30AS/18AF/2P	2#12 & 1#12GND - 34°C
GEF-1	120/1	1/4	15A/1P	2#12 & 1#12GND - 34°C
EF-1	120/1	0.5	15A/1P	2#12 & 1#12GND - 34°C
BEF-1	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-2	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-3	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-4	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C
BEF-5	120/1	0.05	15A/1P	2#12 & 1#12GND - 34°C



KEYNOTE LEGEND

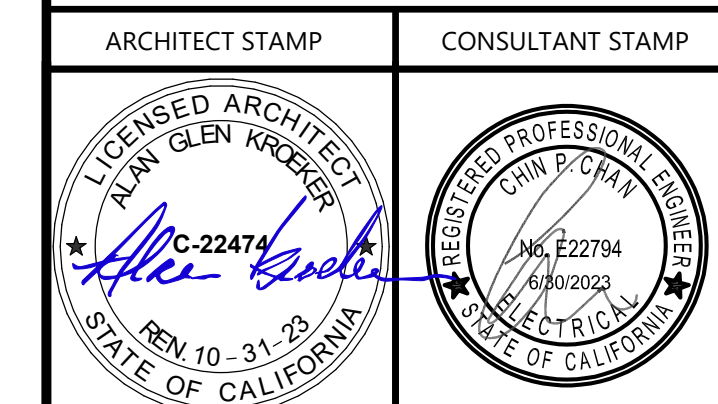
- STUB DOWN INTO 2ND FLOOR FOR FUTURE TENANTS. (7) 2" C.O. FOR FUTURE HVAC POWER AND (7) 2" C.O. FOR FUTURE DATA CONNECTION FOR HVAC.
- PROVIDE A UNI-STRUT WEATHERPROOF GFCI RECEPTACLE WITH AN EXTRA-DUTY DIE CAST IN-USE COVER BY INTERNATIC OR EQUAL.

GENERAL NOTES:

- PROVIDE PIPE FLASHINGS FOR ALL ELECTRICAL ROOF PENETRATIONS REQUIRED AND COORDINATE ALL WORK WITH ROOFING CONTRACTOR FOR A WATERPROOF INSTALLATION.
- ALL CONDUIT SERVING ROOF MOUNTED HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES, DUCT TYPE SMOKE DETECTORS, ETC. SHALL BE ROUTED IN CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
- REFER TO EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE COMPLETE ELECTRICAL CONNECTION TO ALL EQUIPMENT REQUIRING POWER UNLESS NOTED OTHERWISE.
- COORDINATE EXACT MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.



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REVISIONS		
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1	2022-12-22	ISSUE FOR PLAN CHECK
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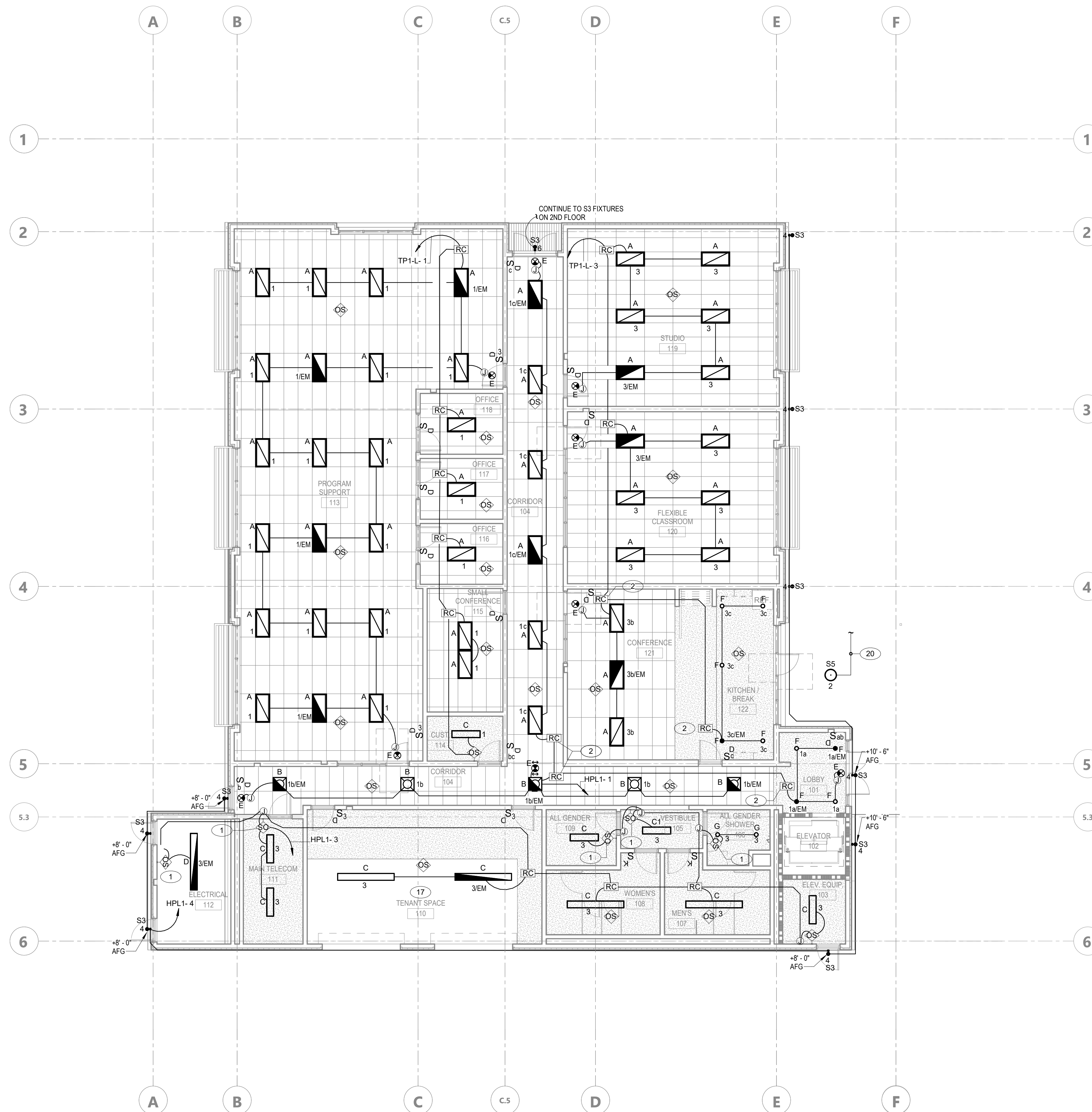
SHEET TITLE
ROOF - POWER PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
E-203

DATE: APRIL 11, 2023

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt
 DATE PLOTTED: 6/7/2023 4:26:47 PM



LEVEL 01 - LIGHTING PLAN 1/8" = 1'-0" 1

KEYNOTE LEGEND

- 1 PROVIDE 0-10V LINE VOLTAGE, SINGLE LEVEL, WALL MOUNTED OCCUPANCY SENSOR.
- 2 PROVIDE LOW VOLTAGE INTER-CONNECTION BETWEEN ROOM CONTROLLER'S FOR COMMUNICATION BETWEEN ONE ANOTHER, VERIFY MANUFACTURER'S REQUIREMENTS. REFER TO DETAIL EX.XX FOR ADDITIONAL INFORMATION.
- 17 AMBIENT LIGHTING IN FUTURE TENANT SPACE ARE POWERED BY HOUSE LIGHTING PANEL. PROVIDE 1'0" PROVISION FROM THIS SPACE BACK TO PANEL TP1B FOR FUTURE TENANT'S LIGHTING CONNECTION. CONNECT TO OTHER LIGHT FIXTURE TYPE SS ON LEVEL 02.
- 20

LIGHTING GENERAL NOTES:

- A REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
- B PROVIDE AN UNSWITCHED CIRCUIT CONDUCTOR TO EXIT SIGNS AND EMERGENCY LIGHTS.
- C WHERE MULTIPLE LIGHT SWITCHES ARE INDICATED AT A SINGLE LOCATION, MOUNT SWITCHES UNDER COMMON GANGED FACEPLATE. MULTIPLE SINGLE GANG FACEPLATES ARE NOT ACCEPTABLE.
- D FIXTURES RECESSED IN "T-BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM WITH TWO NO.12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO OPPOSITE CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE UL APPROVED ASSEMBLY.
- E REFER TO SHEET E-701 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL DIAGRAMS.
- F ALL EXTERIOR LIGHTING SHALL BE CONTROL BY TIMELOCK. COORDINATE WITH LIGHTING CONTROL MANUFACTURER AND PROVIDE TITLE-24 COMPLIANT TIME CLOCK FOR CONTROL OF EXTERIOR FIXTURES.

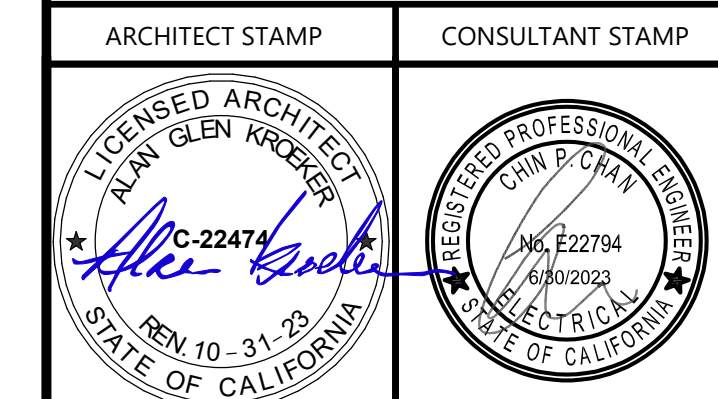
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SHEET TITLE
LEVEL 01 - LIGHTING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

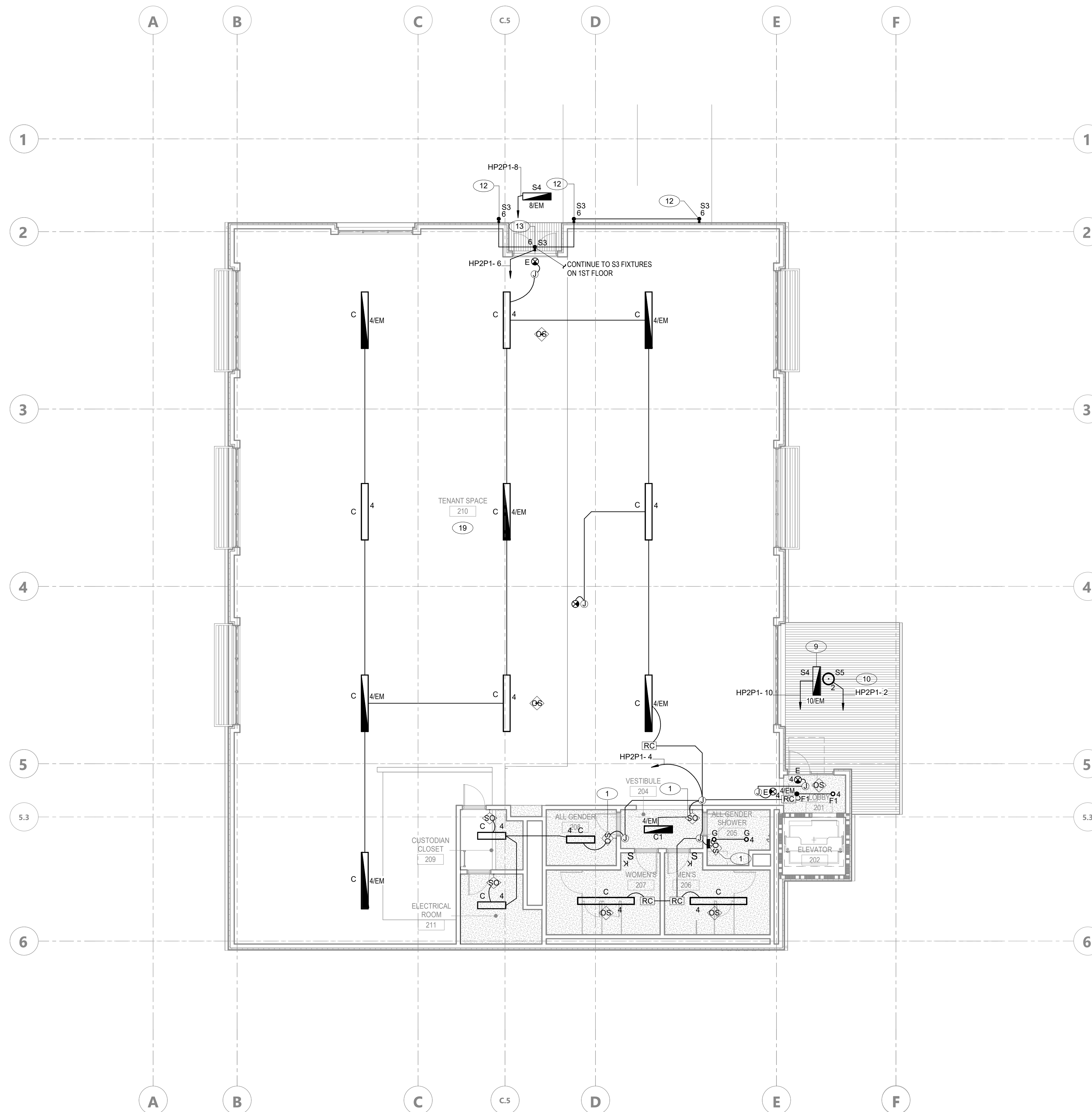
SHEET NO.

E-301

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt
 DATE PLOTTED: 6/7/2023 4:26:49 PM



KEYNOTE LEGEND

- 1 PROVIDE 0-10V LINE VOLTAGE SINGLE LEVEL WALL MOUNTED OCCUPANCY SENSOR.
- 9 LOCATE FIXTURE UNDERSIDE SLAB FOR 1ST FLOOR LIGHTING CONDUIT SHALL BE CONCEALED IN SLAB.
- 10 LOCATE FIXTURE ON 2ND FLOOR OVERHANG, CONCEAL CONDUIT.
- 12 MOUNT AT 9' - 6" FROM STAIR LANDING.
- 13 MOUNT AT 11' - 0" FROM LANDING.
- 19 AMBIENT LIGHTING IN FUTURE TENANT SPACE ARE POWERED BY HOUSE LIGHTING PANEL. PROVIDE 1" PROVISION FROM THIS SPACE BACK TO PANEL TP2.DB FOR FUTURE TENANTS LIGHTING CONNECTION.

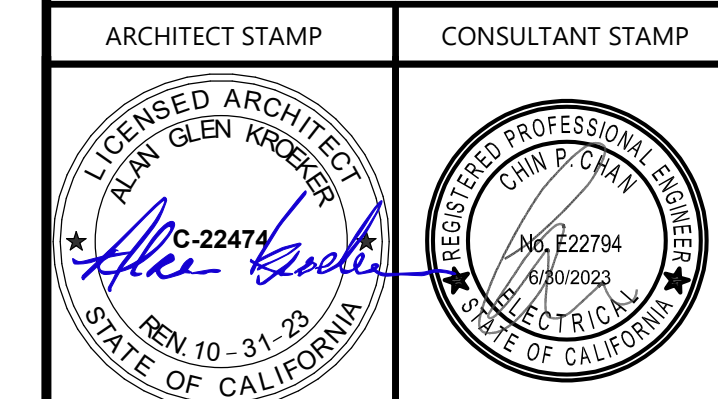
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- E. REFER TO SHEET E-701 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL DIAGRAMS.
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SHEET TITLE
LEVEL 02 - LIGHTING PLAN

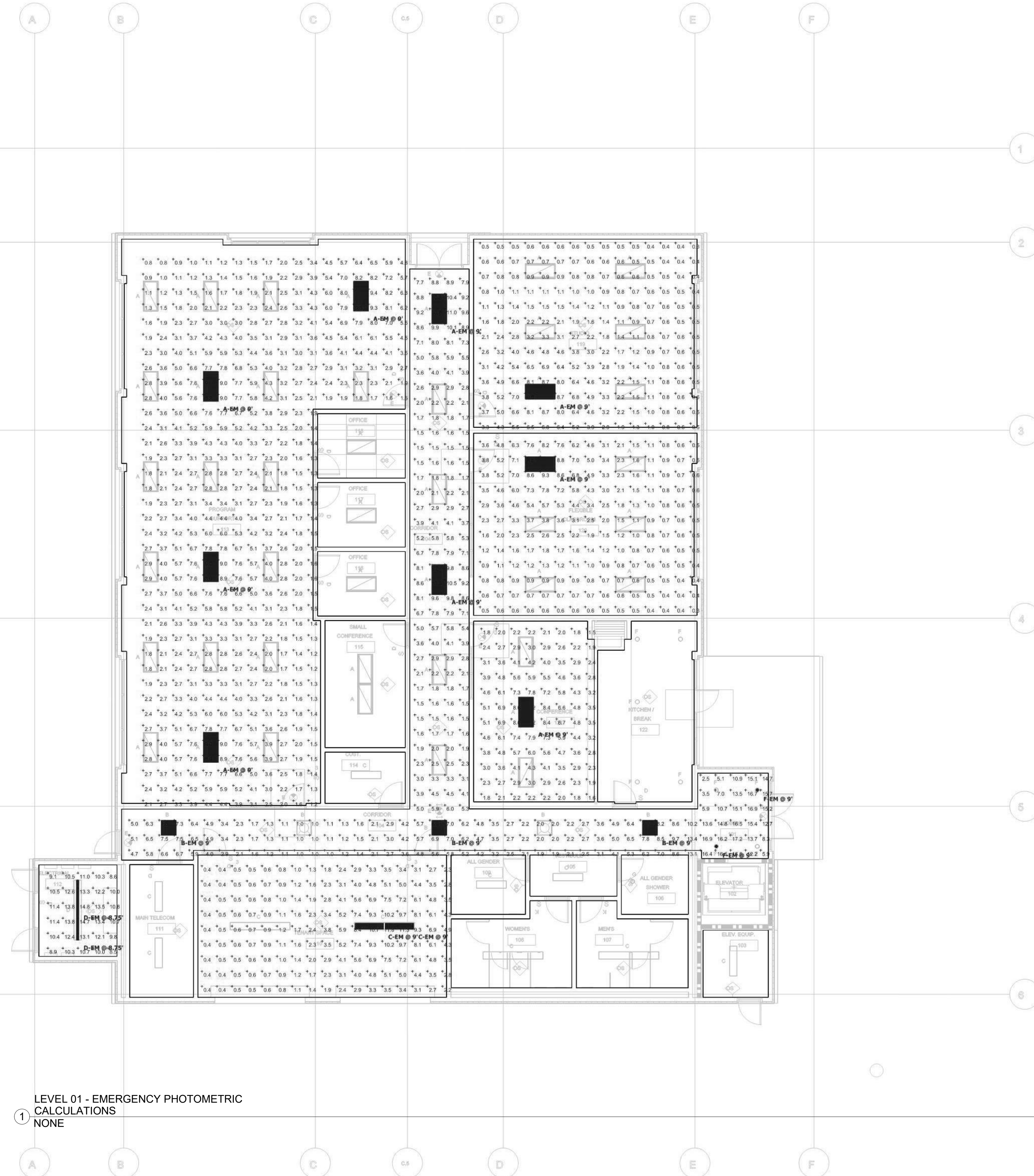
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-302

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS



Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
A-EM		9	Lithonia Lighting	ENVX 2X4 HRGC 6000LM 80CRI 40K E10WLCP	Spec Ambient LED Troffer, 2X4, Hourglass with Center Element, 6000 Nominal Lumens, 80 CRI, 4000K	1	5902	0.35	50.7
B-EM		3	Lithonia Lighting	ENVX 2X2 HRGC 4800LM 80CRI 40K E10WLCP	Spec Ambient LED Troffer, 2X2, Hourglass with Center Element, 4800 Nominal Lumens, 80 CRI, 4000K	1	4901	0.28	45.21
F-EM		2	Lithonia Lighting	LDN4 40/15 LQMR LSS E10WLCP	4IN LDN, 4000K, 1500LM, CLEAR, SEMI-SPECULAR REFLECTOR, 80CRI	1	1514	0.71	17.5
C-EM		2	Lithonia Lighting	STL4 30L EZ1 LP840	STL4 4' 3000 NOMINAL LUMENS 4000K	1	3194	0.47	26.69
D-EM		2	Lithonia Lighting	CLX L48 4000LM SEF FDL MVOLT 40K 80CRI E10WLCP	CLX LED linear 48", 4000 lumens, Standard efficiency, Less louver, Flat diffuse, General, MVOLT, 4000K, 80CRI	1	3955	0.35	25.5429

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
EMERGENCY - CORRIDOR 104	+	5.2 fc	17.2 fc	1.0 fc	17.2:1	5.2:1
EMERGENCY - PROGRAM SUPPORT 113	+	3.7 fc	9.4 fc	0.8 fc	11.8:1	4.6:1
EMERGENCY - CONFERENCE 121	+	4.2 fc	9.2 fc	1.5 fc	6.1:1	2.8:1
EMERGENCY - ELECTRICAL 112	+	11.4 fc	14.8 fc	8.5 fc	1.7:1	1.3:1
EMERGENCY - TENET SPACE 110	+	3.1 fc	11.8 fc	0.4 fc	29.5:1	7.8:1
EMERGENCY - FLEXIBLE CLASSROOM 120	+	2.2 fc	9.5 fc	0.3 fc	31.7:1	7.3:1
EMERGENCY - STUDIO 119	+	2.2 fc	9.4 fc	0.3 fc	31.3:1	7.3:1



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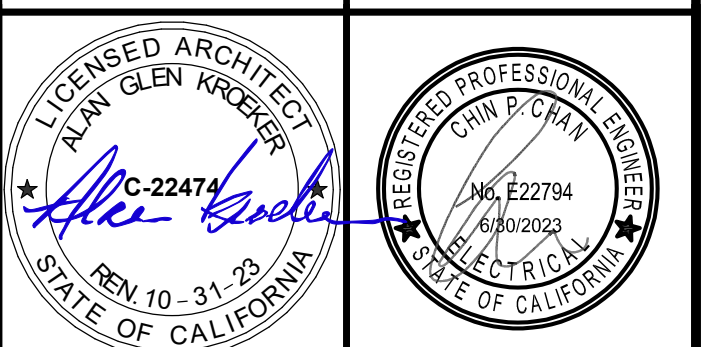
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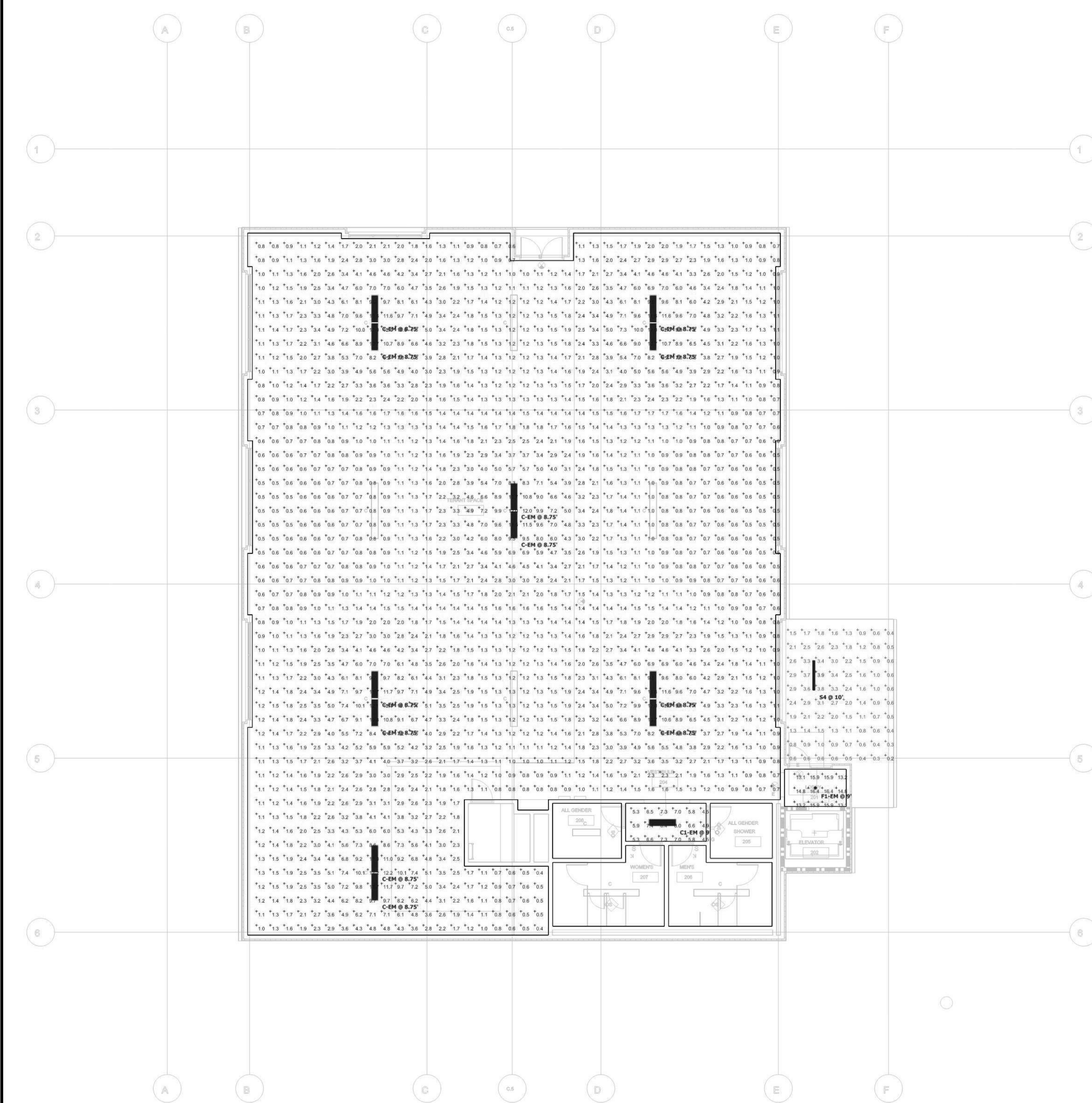
SHEET TITLE
LEVEL 01 - EMERGENCY PHOTOMETRICS

DRAWN BY: Author JOB NUMBER: 21170.01

SHEET NO.

E-303

DATE: APRIL 11, 2023



LEVEL 02 - EMERGENCY PHOTOMETRIC CALCULATIONS
NONE

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
[Symbol]	C-EM	12	Lithonia Lighting	STL4 30L E21 LP840 E10WLCP	STL4 4' 3000 NOMINAL LUMENS 4000K	1	3194	0.47	26.69
[Symbol]	F1-EM	1	Lithonia Lighting	LDN4 40/20 L04AR LSS E10WLCP	4IN LDN, 4000K, 2000LM, CLEAR, SEMI-SPECULAR REFLECTOR, 80CRI	1	2908	0.57	22.12
[Symbol]	C1-EM	1	Lithonia Lighting	STL4 48L E21 LP840	STL4 4' 4800 NOMINAL LUMENS 4000K	1	5088	0.29	45.16
[Symbol]	S4	1	Pinnacle Architectural Lighting	EX3-WET-N-835-4 FSB	FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, WHITE CIRCUIT BOARDS EACH WITH 3/8" LEADS, EXTRUDED FROSTED HOLOGRAPHIC PLASTIC DROP LENS, LENS FROSTED BOTH SIDES.	144	12	0.53	18.8

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
EMERGENCY - TENANT SPACE 210	+	2.6 fc	12.2 fc	0.4 fc	30.5:1	6.5:1
EMERGENCY - LOBBY 201	+	14.9 fc	16.4 fc	13.1 fc	1.3:1	1.1:1
EMERGENCY - OUTDOOR	+	1.6 fc	3.9 fc	0.2 fc	19.5:1	8.0:1
EMERGENCY - VESTIBULE 204	+	6.3 fc	8.4 fc	4.5 fc	1.9:1	1.4:1

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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TEL (888) 600-9324

ARCHITECT STAMP 	CONSULTANT STAMP
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NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	ME COMMENT REVISION

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PROJECT OWNER & TITLE

CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE

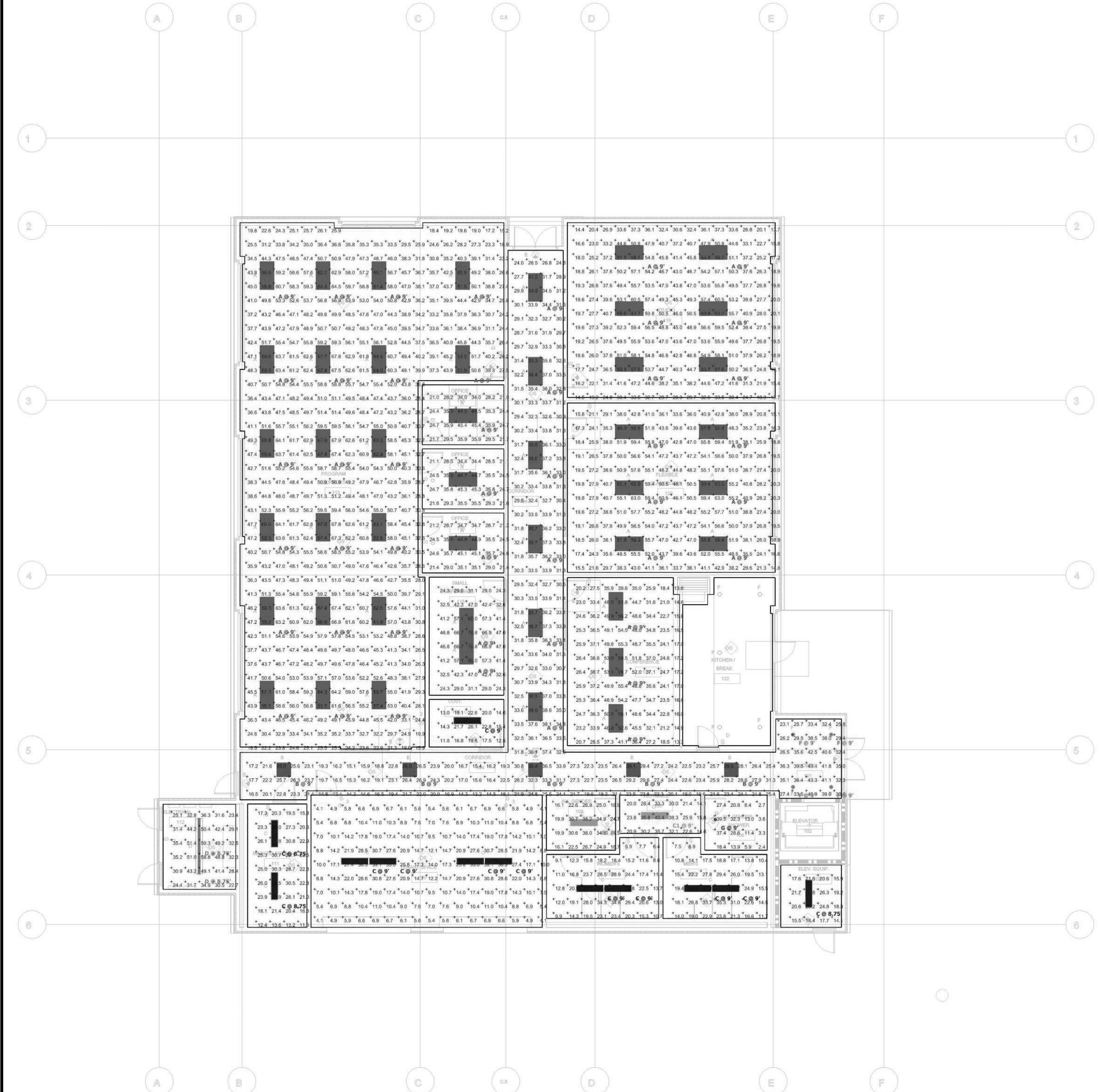
LEVEL 02 - EMERGENCY PHOTOMETRICS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-304

DATE: APRIL 11, 2023



Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
⊠	A	46	Lithonia Lighting	ENVX 2X4 HRGC 6000LM 80CRI 40K	Spec Ambient LED Troffer, 2X4, Hourglass with Center Element, 6000 Nominal Lumens, 80 CRI, 4000K	1	5902	0.9	50.7
⊠	B	5	Lithonia Lighting	ENVX 2X2 HRGC 4800LM 80CRI 40K	Spec Ambient LED Troffer, 2X2, Hourglass with Center Element, 4800 Nominal Lumens, 80 CRI, 4000K	1	4901	0.9	45.21
⊠	C	12	Lithonia Lighting	STL4 30L E21 LP840	STL4 4' 3000 NOMINAL LUMENS 4000K	1	3194	0.9	26.69
⊠	C1	2	Lithonia Lighting	STL4 48L E21 LP840	STL4 4' 4800 NOMINAL LUMENS 4000K	1	5088	0.9	45.16
⊠	D	2	Lithonia Lighting	CLX L48 4000LM SEF FDL MVOLT 40K 80CRI	CLX LED Linear 48", 4000 lumens, Standard efficiency, Less louver, Flat diffuse, General, MVOLT, 4000K, 80CRI	1	3955	0.9	25.5429
⊠	G	1	Gotham Architectural Lighting	EV04SH 40/25 DFR SMO	EVO 4IN SHOWER, 80 CRI, 4000K, 2500LM, REGRESSED CLEAR	1	1720	0.9	25.7
⊠	F	4	Lithonia Lighting	LDN4 40/15 L048 LSS	4IN LDN, 4000K, 1500LM, CLEAR, SEMI-SPECULAR REFLECTOR, 80CRI	1	1514	0.9	17.5

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ALL GENDER 109 @ 2'-6" AFF	+	25.7 fc	38.2 fc	16.1 fc	2.4:1	1.6:1
ALL GENDER SHOWER 106 @ 2'-6" AFF	+	16.8 fc	39.5 fc	2.4 fc	16.5:1	7.0:1
CONFERENCE 121 @ 2'-6" AFF	+	34.7 fc	59.7 fc	13.3 fc	4.5:1	2.6:1
CORRIDOR 104	+	29.0 fc	43.4 fc	12.4 fc	3.5:1	2.3:1
CUST. 114 @ 2'-6" AFF	+	17.8 fc	26.1 fc	11.8 fc	2.2:1	1.5:1
ELECTRICAL 112 @ 2'-6" AFF	+	37.9 fc	59.3 fc	22.7 fc	2.6:1	1.7:1
ELEV. EQUIP 103 @ 2'-6" AFF	+	20.4 fc	27.8 fc	14.1 fc	2.0:1	1.4:1
FLEXIBLE CLASSROOM 120 @ 2'-6" AFF	+	40.6 fc	63.0 fc	14.8 fc	4.3:1	2.7:1
MAIN TELECOM 111 @ 2'-6" AFF	+	23.4 fc	32.8 fc	11.6 fc	2.8:1	2.0:1
MENS 107 @ 2'-6" AFF	+	21.2 fc	39.8 fc	7.5 fc	5.3:1	2.8:1
OFFICE 116 @ 2'-6" AFF	+	31.7 fc	45.1 fc	21.2 fc	2.1:1	1.5:1
OFFICE 117 @ 2'-6" AFF	+	31.7 fc	45.3 fc	21.1 fc	2.1:1	1.5:1
OFFICE 118 @ 2'-6" AFF	+	31.7 fc	45.4 fc	21.0 fc	2.2:1	1.5:1
PROGRAM SUPPORT 113 @ 2'-6" AFF	+	46.9 fc	67.9 fc	15.2 fc	4.5:1	3.1:1
CONFERENCE (SMALL) 115 @ 2'-6" AFF	+	45.0 fc	76.8 fc	24.3 fc	3.2:1	1.9:1
STUDIO 119 @ 2'-6" AFF	+	39.1 fc	63.7 fc	13.7 fc	4.6:1	2.9:1
TENANT SPACE 110 @ 2'-6" AFF	+	13.6 fc	39.1 fc	4.1 fc	9.5:1	3.3:1
VESTIBULE 105 @ 2'-6" AFF	+	27.0 fc	43.4 fc	14.1 fc	3.1:1	1.9:1
WOMENS 108 @ 2'-6" AFF	+	19.3 fc	39.1 fc	5.9 fc	6.6:1	3.3:1



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 705 FIENO LANE, SUITE 10
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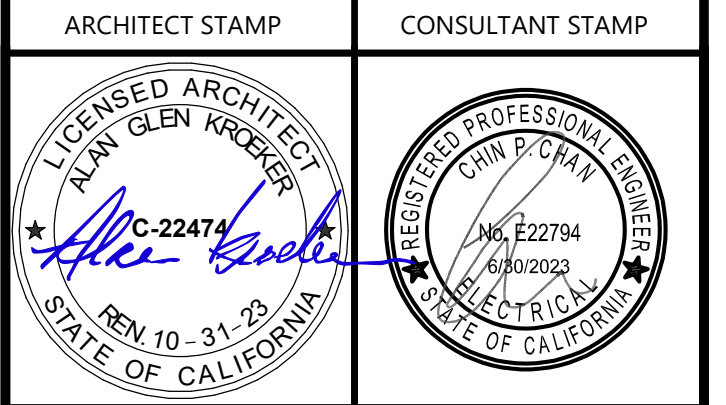
LANDSCAPE ARCHITECT
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 540 E. BETTERAVIA ROAD, SUITE D 22
 SANTA MARIA, CA 92103
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 3442 EMPRESS DR. SUITE C
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 TEL (888) 600-9324



NO.	DATE	DESCRIPTION
1	2022-12-22	ISSUE FOR PLAN CHECK
2	2023-03-08	100% CD
3	2023-06-09	10% COMMENT REVISION

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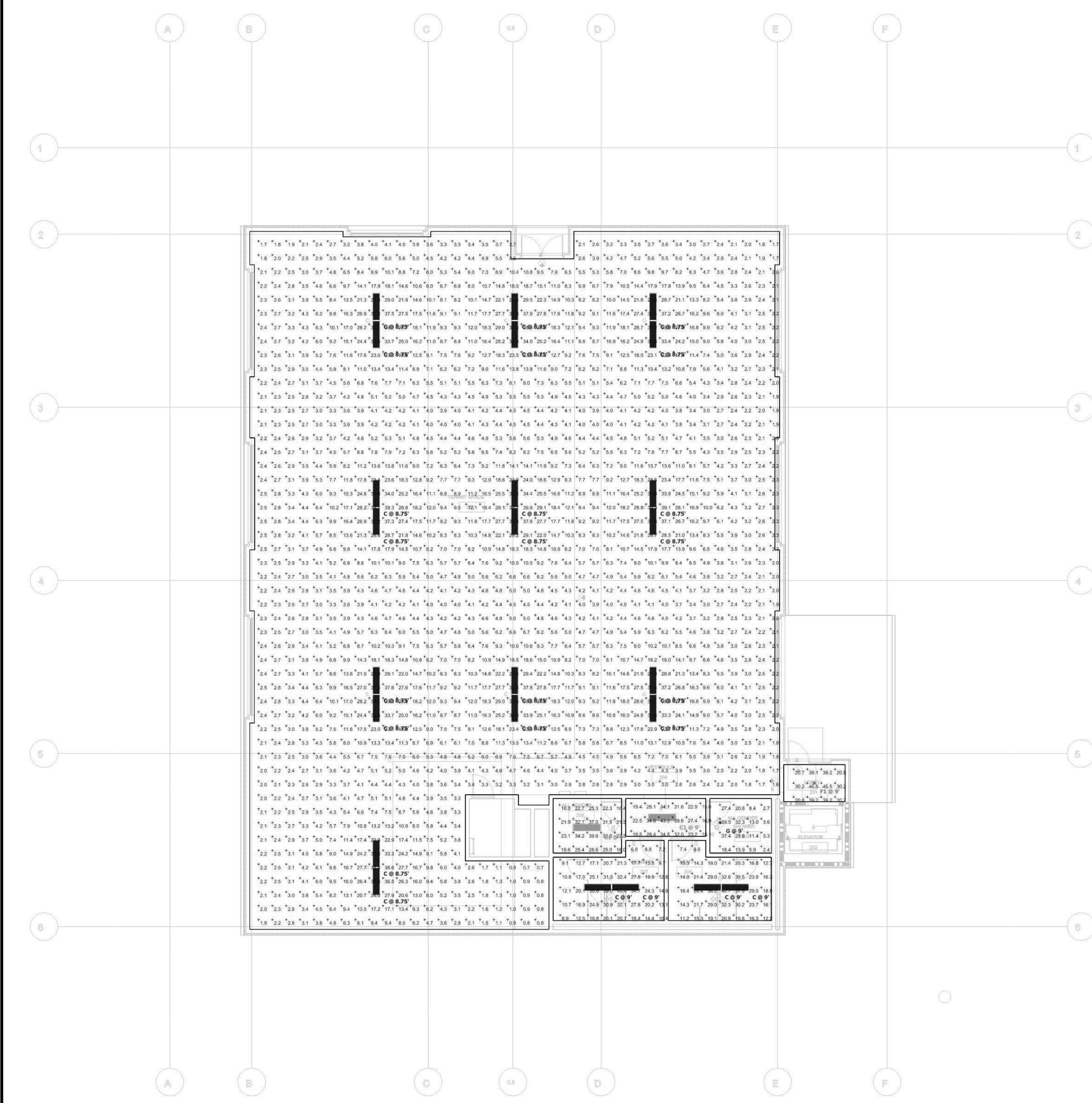
PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93407

CAL POLY TECH
 PARK - PHASE 2
 Mount Bishop Road
 San Luis Obispo, CA

SHEET TITLE
LEVEL 01 - NORMAL PHOTOMETRICS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
E-305
 DATE: APRIL 11, 2023



Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
⊞	C	24	Lithonia Lighting	STL4 30L EZ1 LP840	STL4 4' 3000 NOMINAL LUMENS 4000K	1	3194	0.9	26.69
⊞	C1	2	Lithonia Lighting	STL4 48L EZ1 LP840	STL4 4' 4800 NOMINAL LUMENS 4000K	1	5088	0.9	45.16
⊗	G	1	Gotham Architectural Lighting	EVO4SH 40/25 DFR SMO	EVO 4IN SHOWER, 80 CRI, 4000K, 2500LM, REGRESSED CLEAR	1	1720	0.9	25.7
⊗	F1	1	Lithonia Lighting	LDN4 40/20 LQ4R LS4	4IN LDN, 4000K, 2000LM, CLEAR, SEMI-SPECULAR REFLECTOR, 80CRI	1	2008	0.9	22.12

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ALL GENDER 208 @ 2'-6" AFF	+	25.8 fc	39.6 fc	16.4 fc	2.4:1	1.6:1
ALL GENDER SHOWER 205 @ 2'-6" AFF	+	16.8 fc	39.5 fc	2.4 fc	16.5:1	7.0:1
MENS 206 @ 2'-6" AFF	+	21.2 fc	40.7 fc	7.4 fc	5.5:1	2.9:1
VESTIBULE 204 @ 2'-6" AFF	+	27.1 fc	43.2 fc	15.0 fc	2.9:1	1.8:1
WOMENS 207 @ 2'-6" AFF	+	19.5 fc	40.4 fc	6.8 fc	5.9:1	2.9:1
TENANT SPACE 210 @ 2'-6" AFF	+	8.9 fc	39.8 fc	0.7 fc	56.9:1	12.7:1
LOBBY 201 @ 2'-6" AFF	+	32.6 fc	45.5 fc	20.7 fc	2.2:1	1.6:1

CSU The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

26535 SUMMIT CIRCLE
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19.6

560 HIGUERA STREET, SUITE C
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3442 EMPRESA DR. SUITE C
SAN LUIS OBISPO, CA 93401
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ARCHITECT STAMP 	CONSULTANT STAMP
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1 Grand Avenue
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Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
**LEVEL 02 - NORMAL
PHOTOMETRICS**

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
E-306
DATE: APRIL 11, 2023

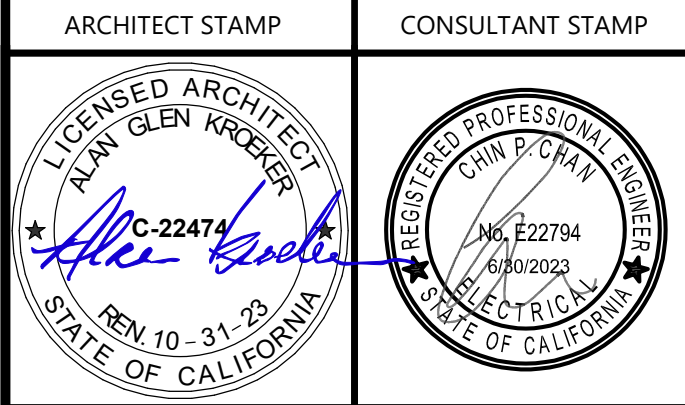


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REVISIONS

NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
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	2023-08-09	MR COMMENT REVISION

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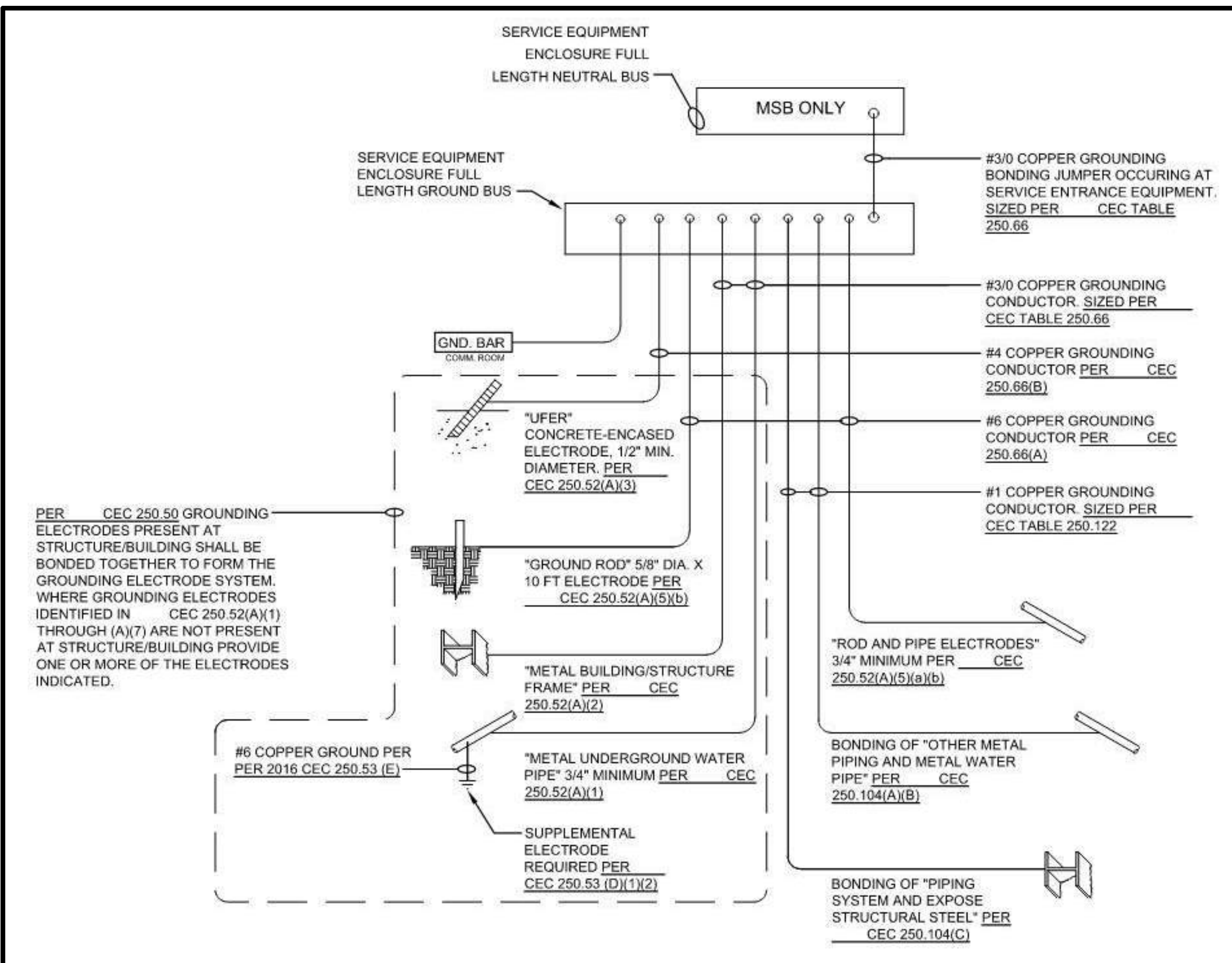
PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
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1 Grand Avenue
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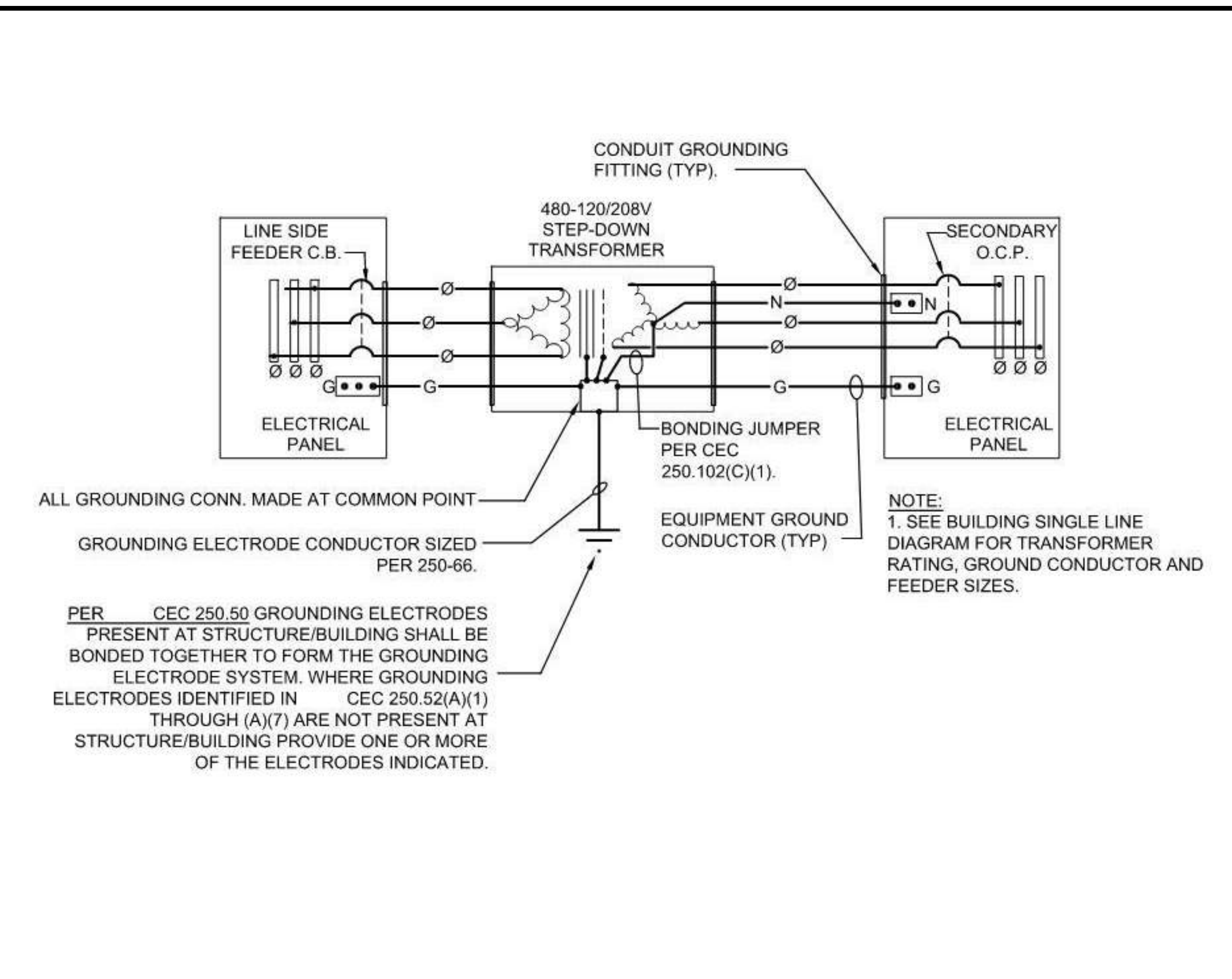
SHEET TITLE
ELECTRICAL DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01
SHEET NO.

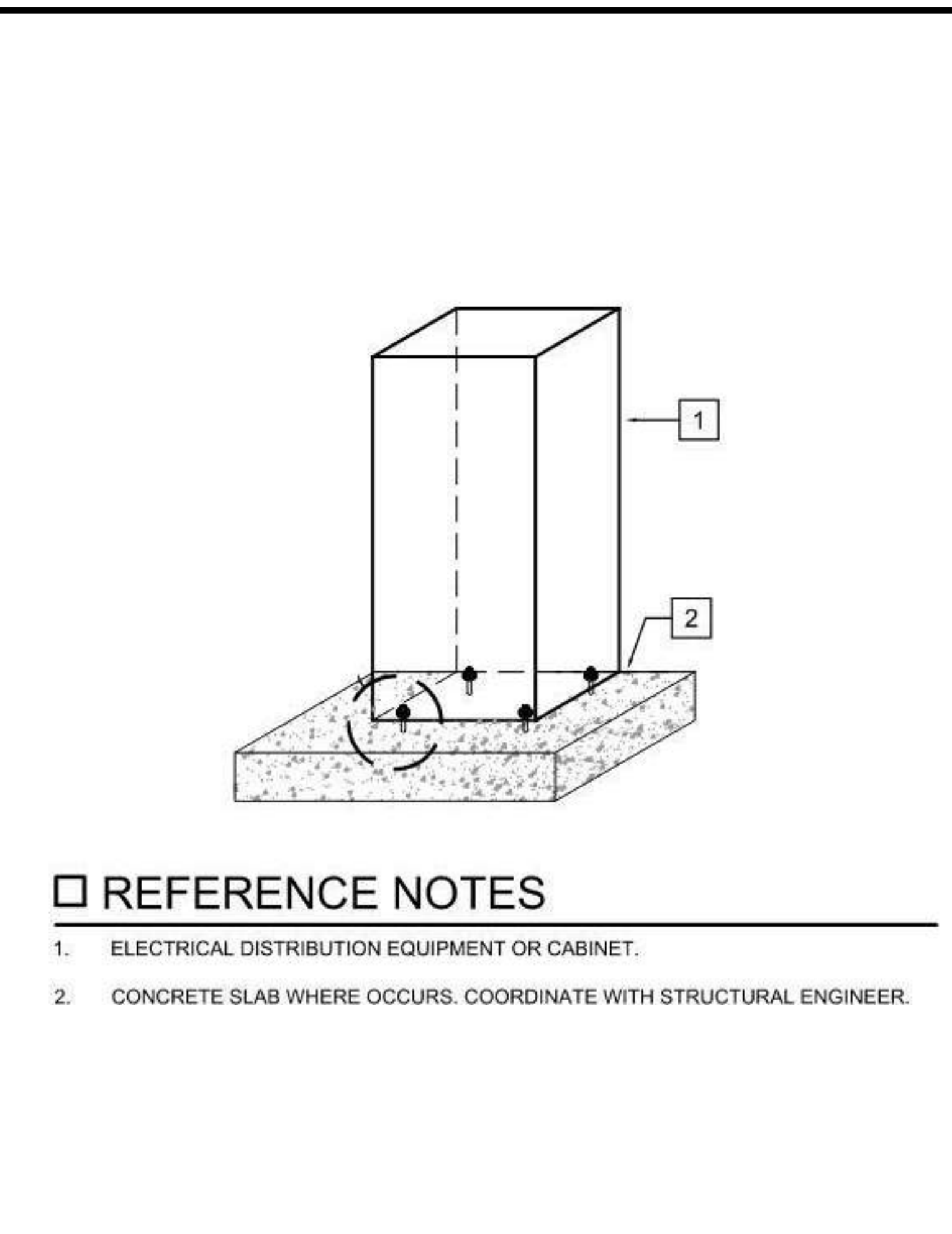
E-501
DATE: APRIL 11, 2023



1 GROUND/BOND DETAIL AT "MSB-60"
NO SCALE



2 TRANSFORMER GROUND DETAIL
NO SCALE



4 SWITCHBOARD MOUNTING ELEVATION
NO SCALE

GENERAL NOTES
PRODUCT DESCRIPTION AND RATINGS:

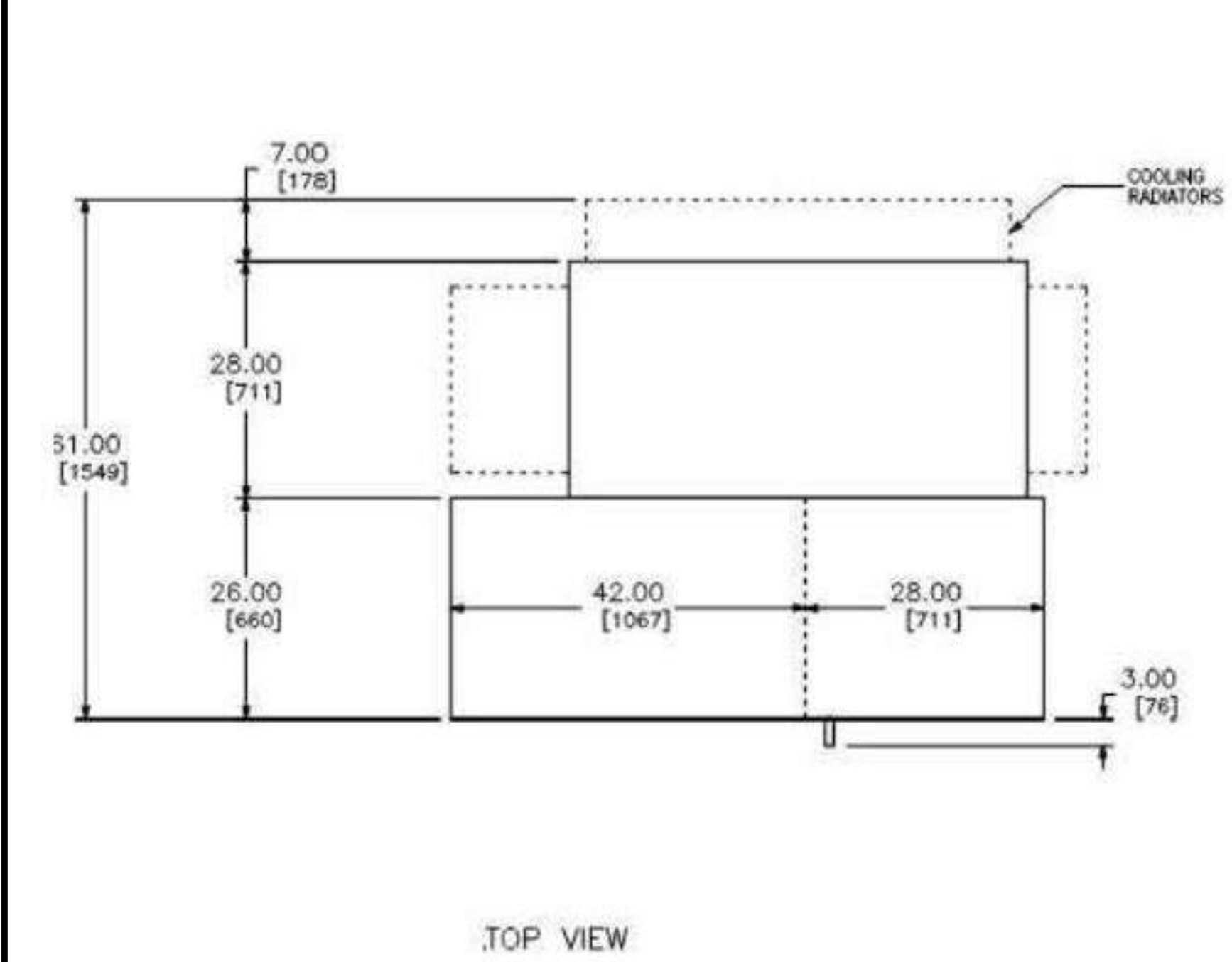
POWER SYSTEM DATA:
300 KVA 12000 Delta PRIMARY 480GY/277 SECONDARY
3 PHASE 60 Hertz CLASS KNAN

ENCLOSURE DATA:
GENERAL PURPOSE - OUTDOOR ENCLOSURE
FINISH Munsell #7.0GY-3.29/1.5

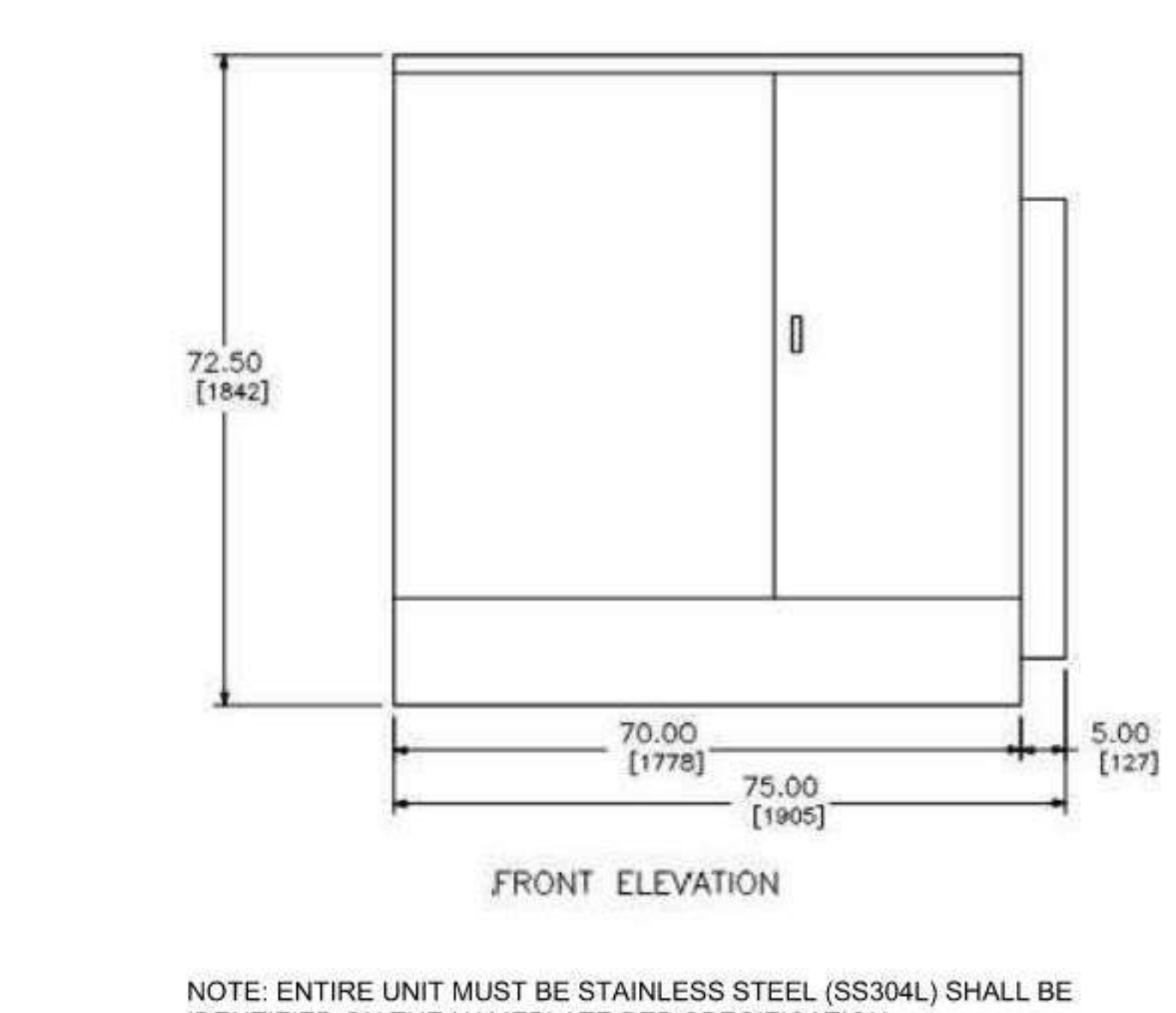
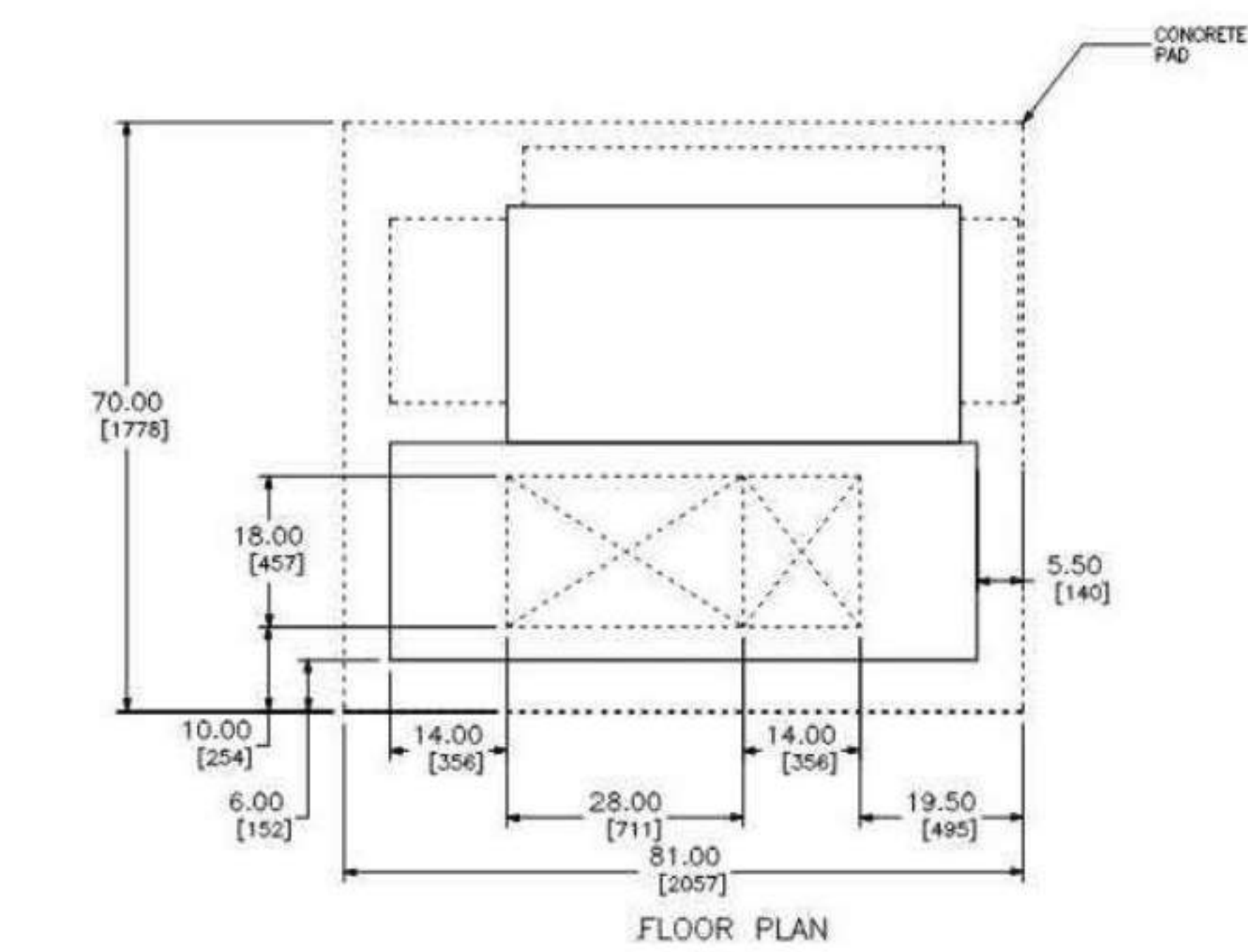
ESTIMATED SHIPPING WEIGHTS:
TOTAL 8125LB / 3693KG

PRODUCT INFORMATION:

TRANSFORMER RATING: 300 KVA
KVA: 300 KVA
PRIMARY VOLTAGE: 12000 Delta
HV BASIC IMPULSE LEVEL (KV): 95 KV BIL
SECONDARY VOLTAGE: 480GY/277
LV BASIC IMPULSE LEVEL (KV): 30 KV BIL
PRIMARY CONDUCTOR: Copper Windings
SECONDARY CONDUCTOR: Copper Windings
TAPS: 2-2.5% FCAN 2-2.5% FCBN
IMPEDANCE: 4.0 Nominal +/- 7.5%
TEMPERATURE RISE: 65 C
FLUID: LESS FLAMMABLE SEED OIL
SOUND LEVEL: 55 db
INSULATION CLASS: Liquid Filled 120 Degrees
UL LISTING: Yes
SEISMIC SDS: SDS 2.25
DESIGN EFFICIENCY: Energy Efficient per DOE 2016



3 TRANSFORMER T060-134Y-A
ELEVATION
NO SCALE



FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt
DATE PLOTTED: 6/7/2023 4:26:52 PM

CONSTRUCTION DOCUMENTS



AMG
 26535 SUMMIT CIRCLE
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 TEL (661) 251-7401

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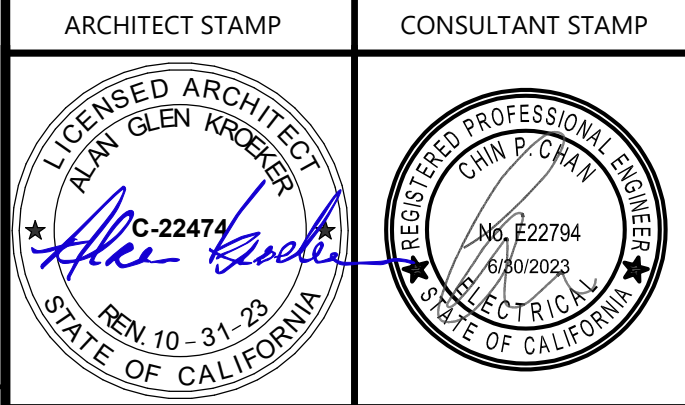
LANDSCAPE ARCHITECT
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 540 E. BETTERAVIA ROAD, SUITE D 22
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SHEET TITLE
ELECTRICAL DETAILS

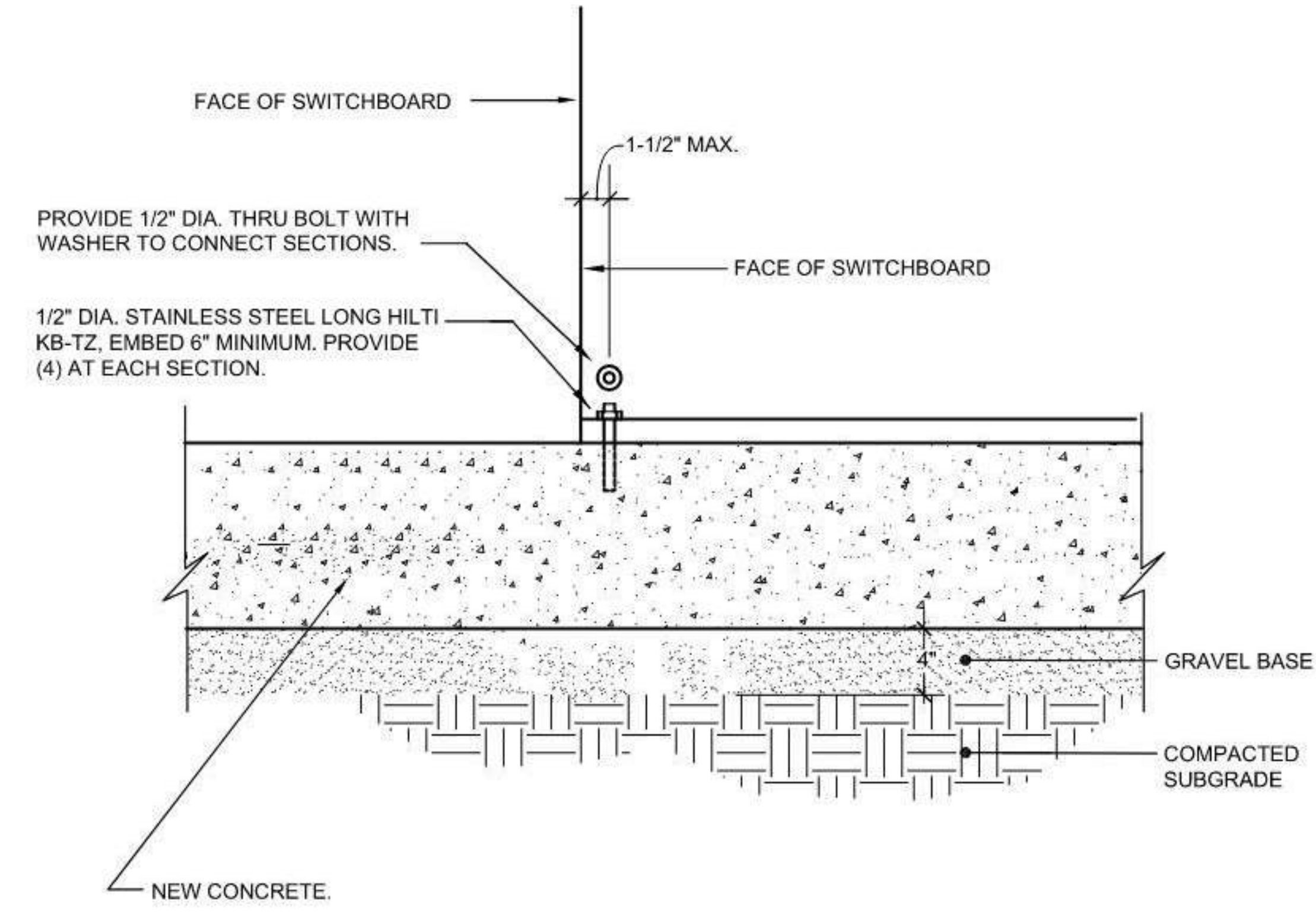
DRAWN BY: Author JOB NUMBER: 21179.01
 SHEET NO.

E-502
 DATE: APRIL 11, 2023

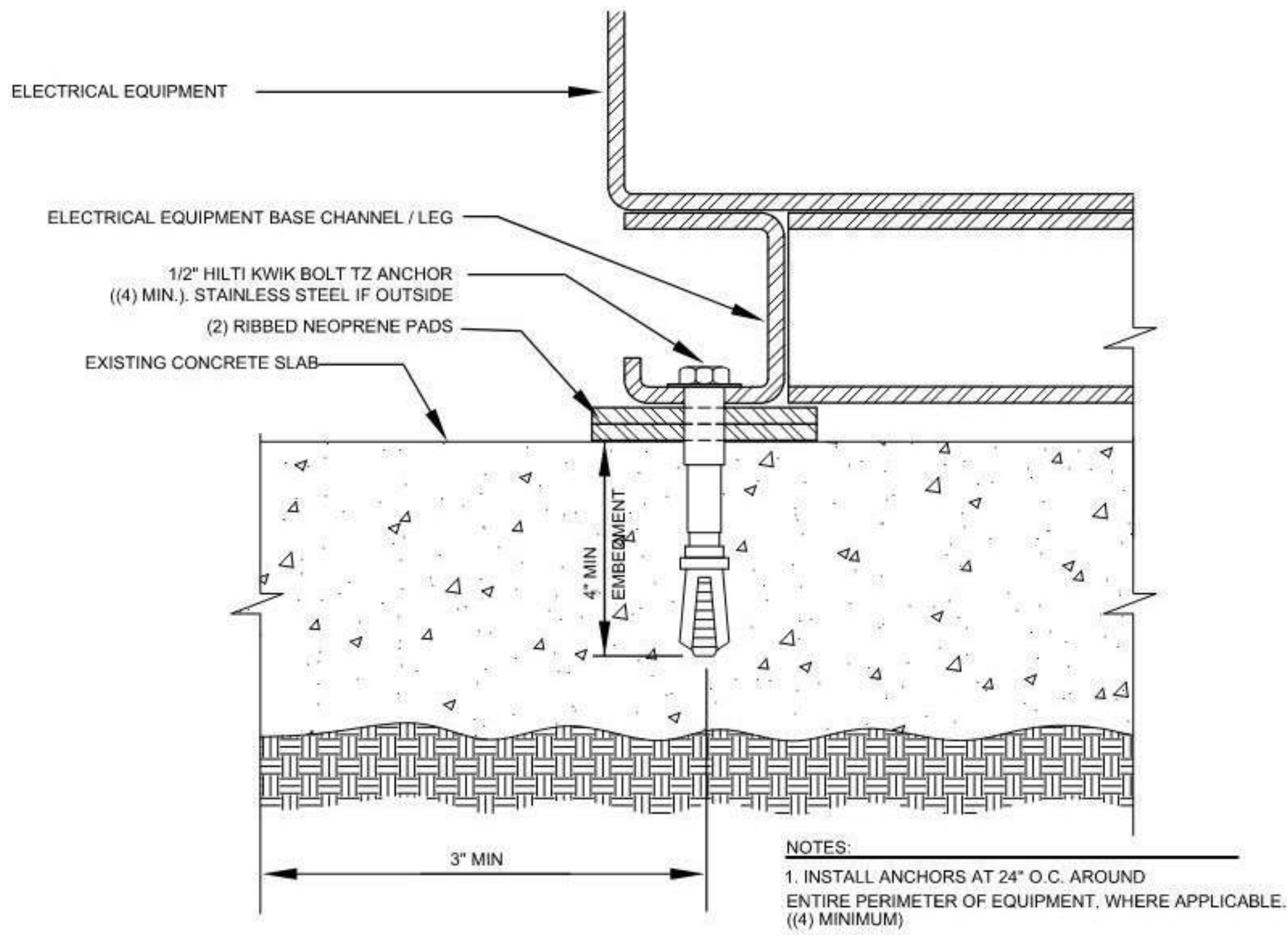
CONSTRUCTION DOCUMENTS

GENERAL NOTES

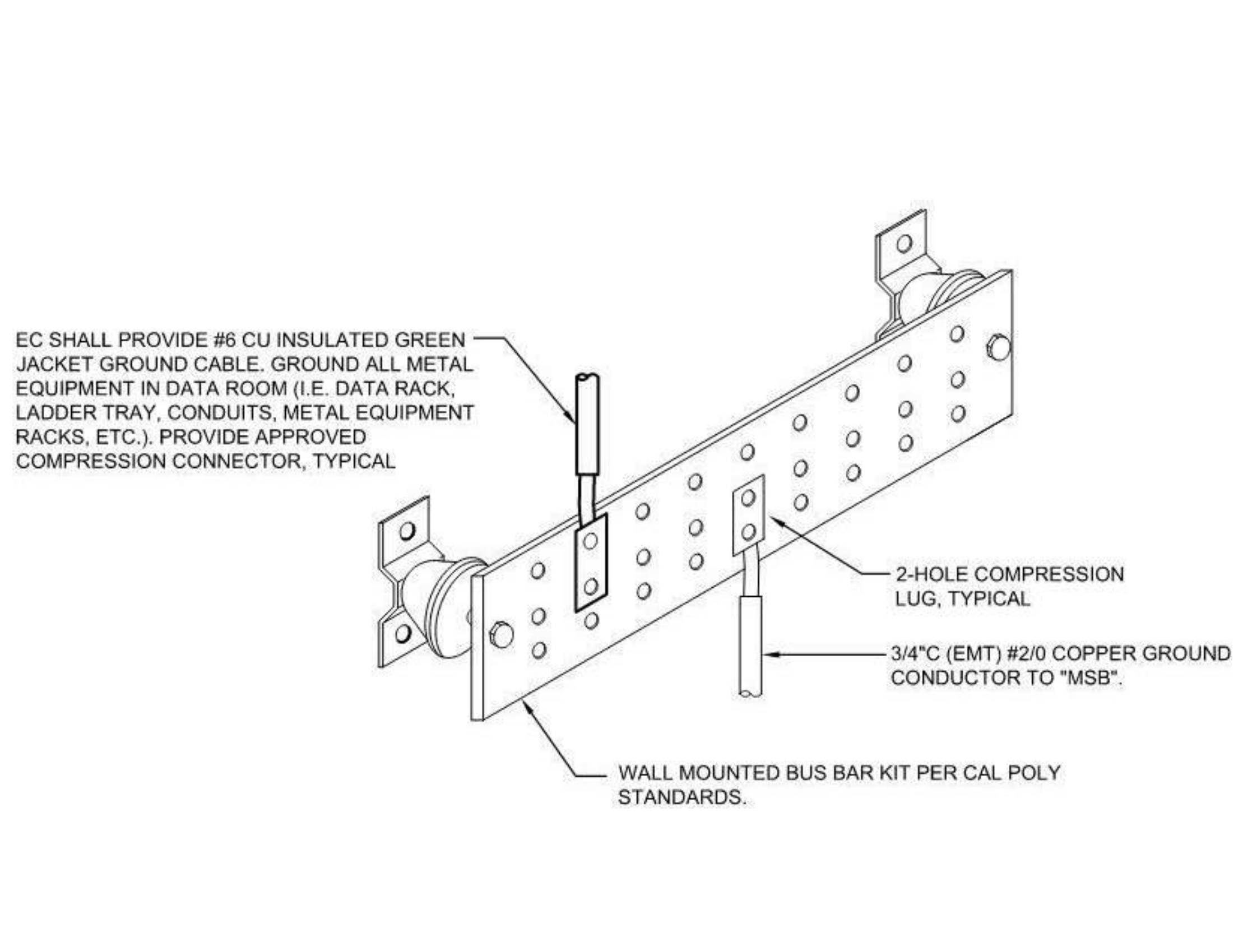
- PVC CONDUIT END BELL TO MATCH CONDUIT.
- CAP CABLE ENDS IMMEDIATELY AFTER PULL IF CABLE TERMINATIONS ARE TO BE INSTALLED LATER.
- BOND ALL NON CURRENT CARRYING BRACKETS, RACKS AND SUPPORTS TO GROUND LOOP. (IF ANY).
- ALL SPLICE AND TERMINATION SHELD GROUNDING CONDUCTORS SHALL BE CONNECTED TO GROUND LOOP IN VAULT.
- BOND DUCTBANK GROUNDING CONDUCTOR AND CIRCUIT GROUNDING CONDUCTOR TO GROUND LOOP.
- TAG ALL CABLES PER SPECIFICATION. TAGS SHALL BE INSTALLED WITHIN 16 INCHES OF CABLE ENTRY AND EXIT OF ACCESSIBLE SPACES SUCH AS MANHOLES, CABLE TRENCHES, ETC. IDENTIFY CIRCUIT NUMBER, SOURCE LOCATION, TOTAL LENGTH, FROM SOURCE # (UPSTREAM SWITCHGEAR OR MANHOLE, ETC.) DISTANCE TO LOAD # (DOWNSTREAM SWITCH, MANHOLE, ETC.) DISTANCE.
- UPON COMPLETION OF ALL CABLE RECONNECTION AND INSTALLATION, RELABEL ALL CABLES WITH PROPER CIRCUIT IDENTIFICATION AND OTHER REQUIRED DATA FOR PROPER IDENTIFICATION.
- ALL CONDUITS SHALL BE SEALED AT CONDUIT ENTRANCE TO PULL BOXES AND CABLE TRENCHES.
- ALL UNUSED CONDUIT SHALL HAVE 3/8" POLYPROPYLENE PULL LINE INSTALLED AND SECURED.
- INSTALL TWO GROUND RODS AND GROUND RING AROUND PERIMETER OF PAD, BOND RODS AND GROUND RING TO GROUNDING SYSTEM. BOND PAD-MOUNTED EQUIPMENT AND CONCURRENT-CARRYING METAL ITEMS TO GROUND SYSTEM. CONNECT ALL CABLE SHIELDS TO GROUND SYSTEM. USE TINNED-COPPER CONDUCTOR NOT LESS THAN No. 2 SWG FOR TAPS TO EQUIPMENT GROUND PAD AND OTHER METAL PARTS. BURY GROUND RING NOT LESS THAN 18 INCHES BELOW GRADE AND 6 INCHES FROM THE FOUNDATION.



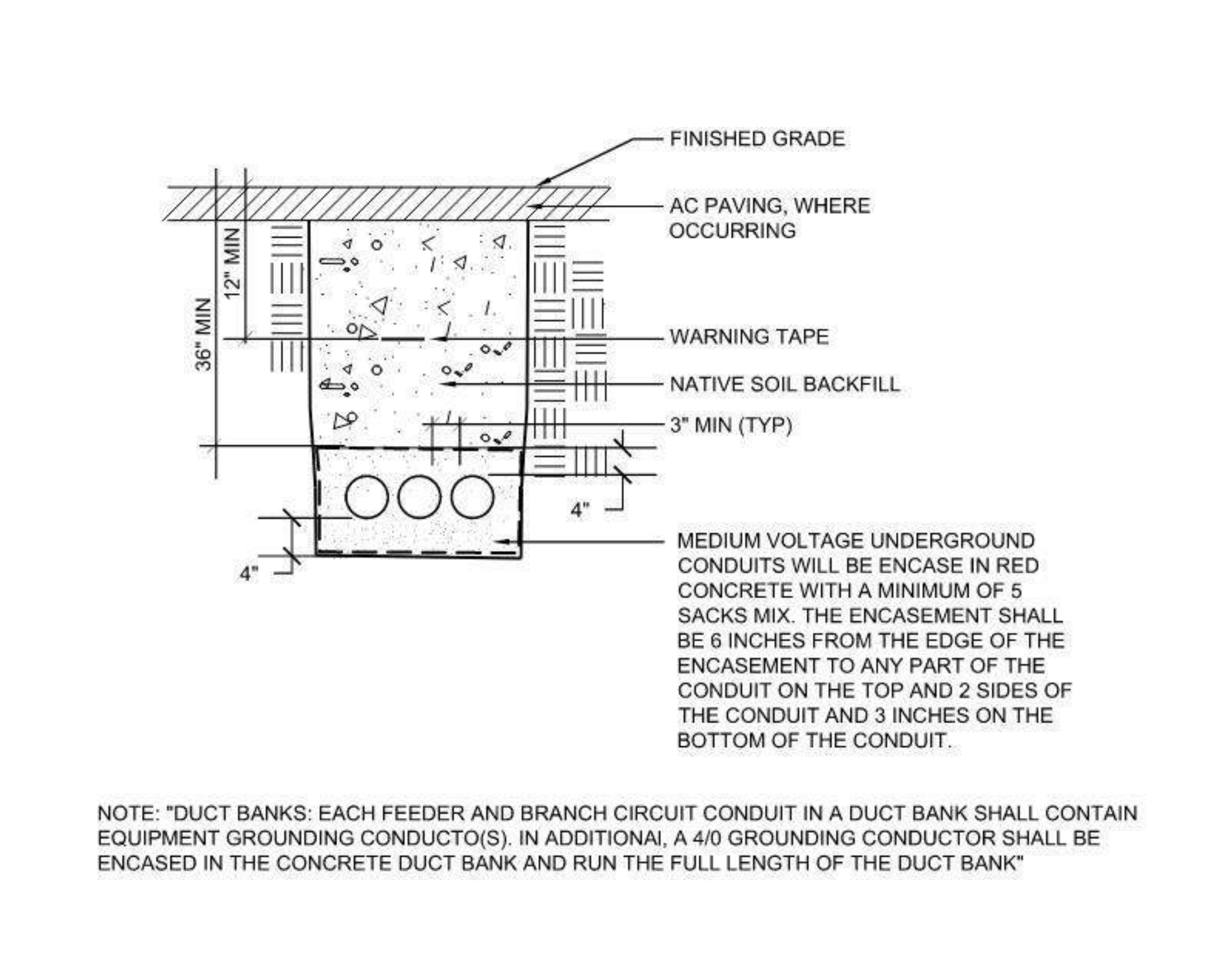
1 SWITCHBOARD MOUNTING SECTION
 NO SCALE



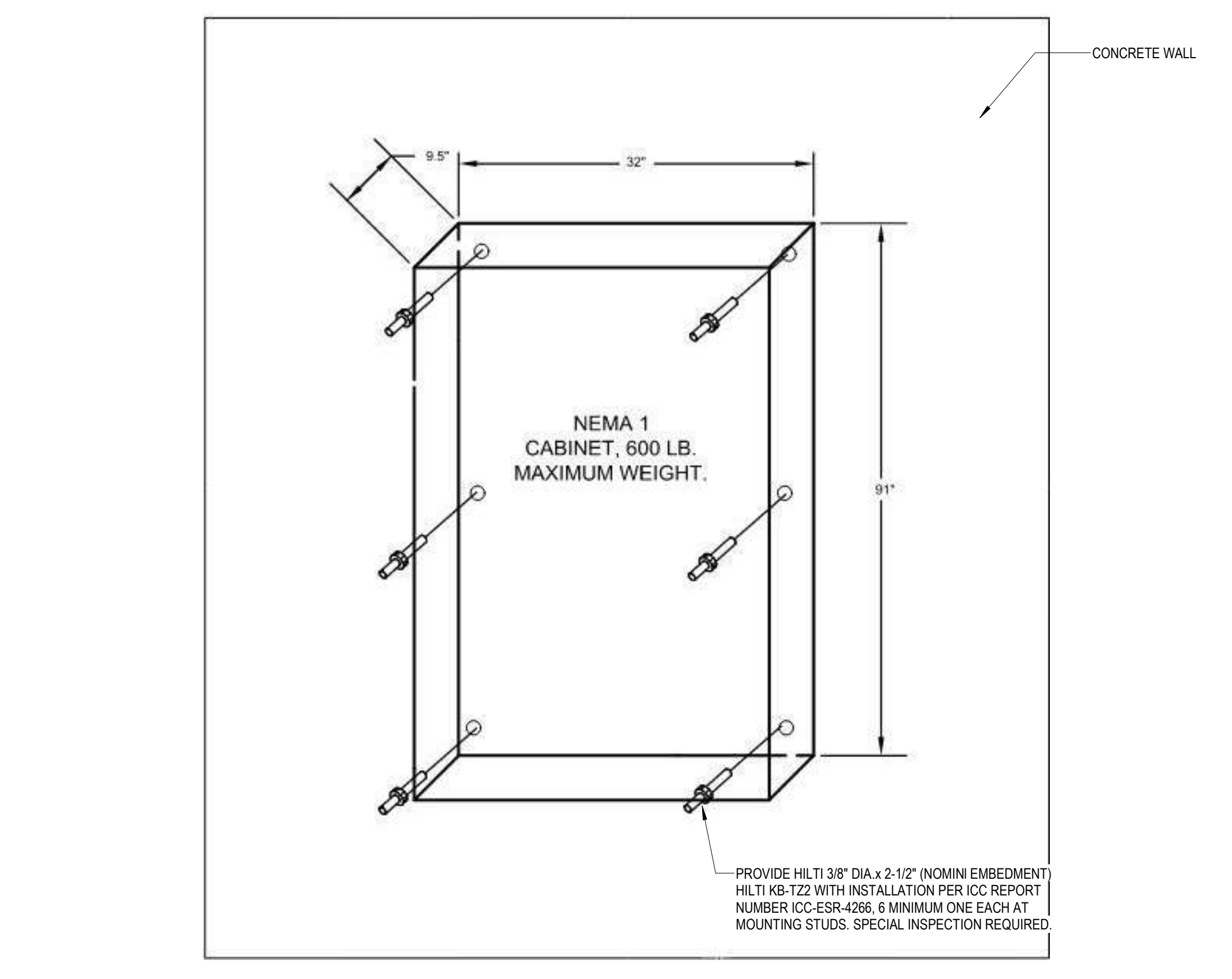
2 TRANSFORMER MOUNTING DETAIL
 NO SCALE



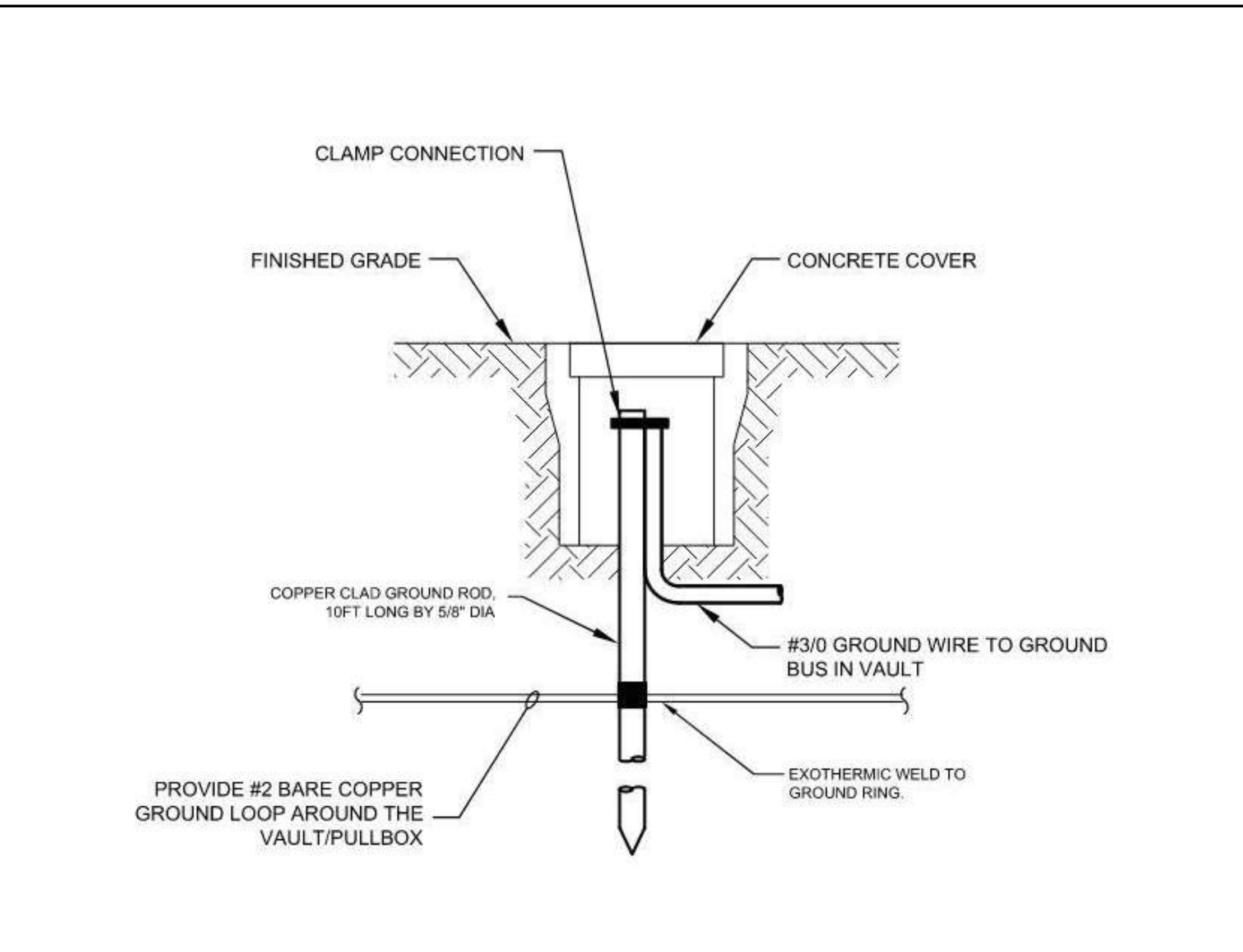
3 GROUND BAR AT TELECOM ROOM
 NO SCALE



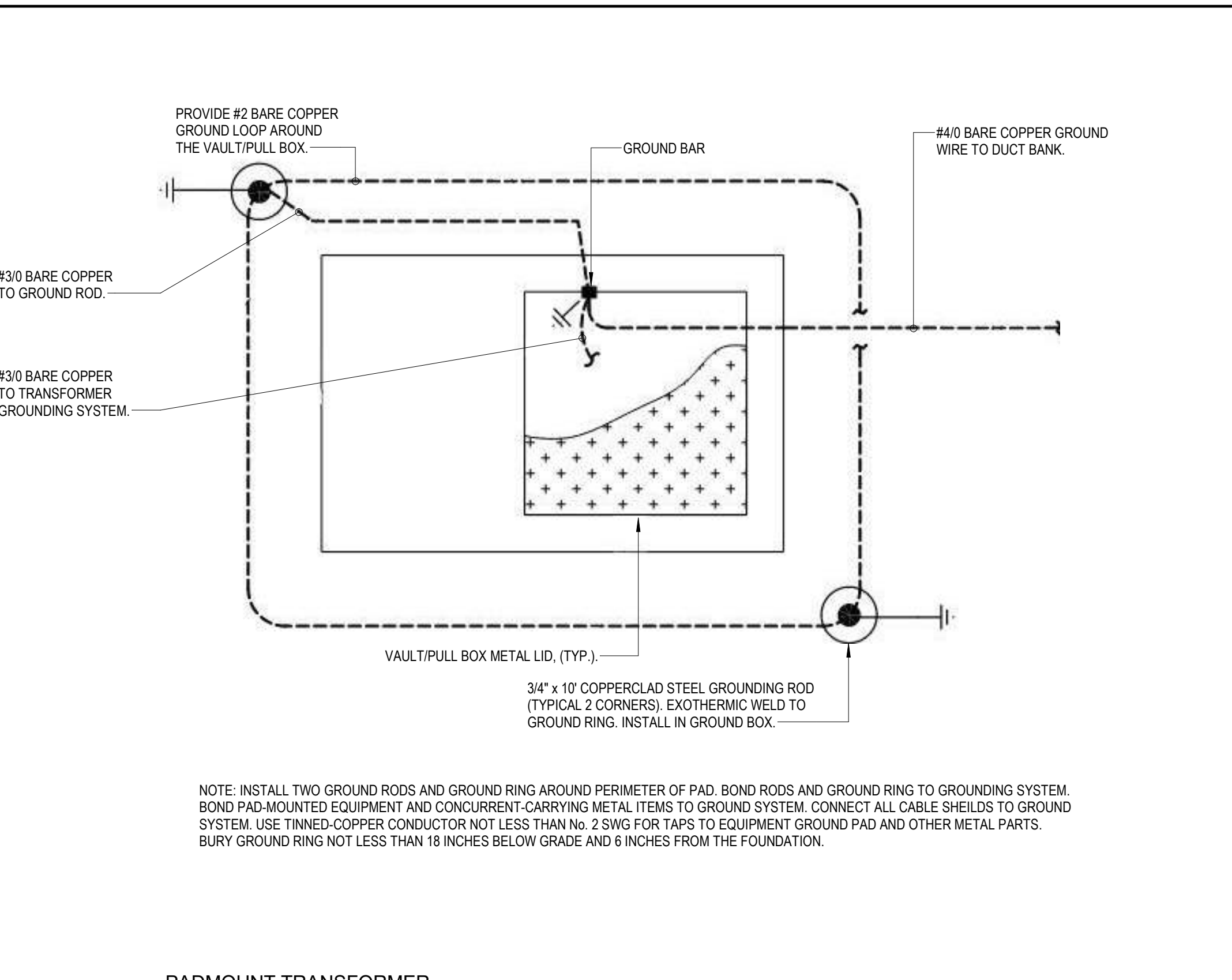
4 12KV TRENCH DETAIL
 NO SCALE



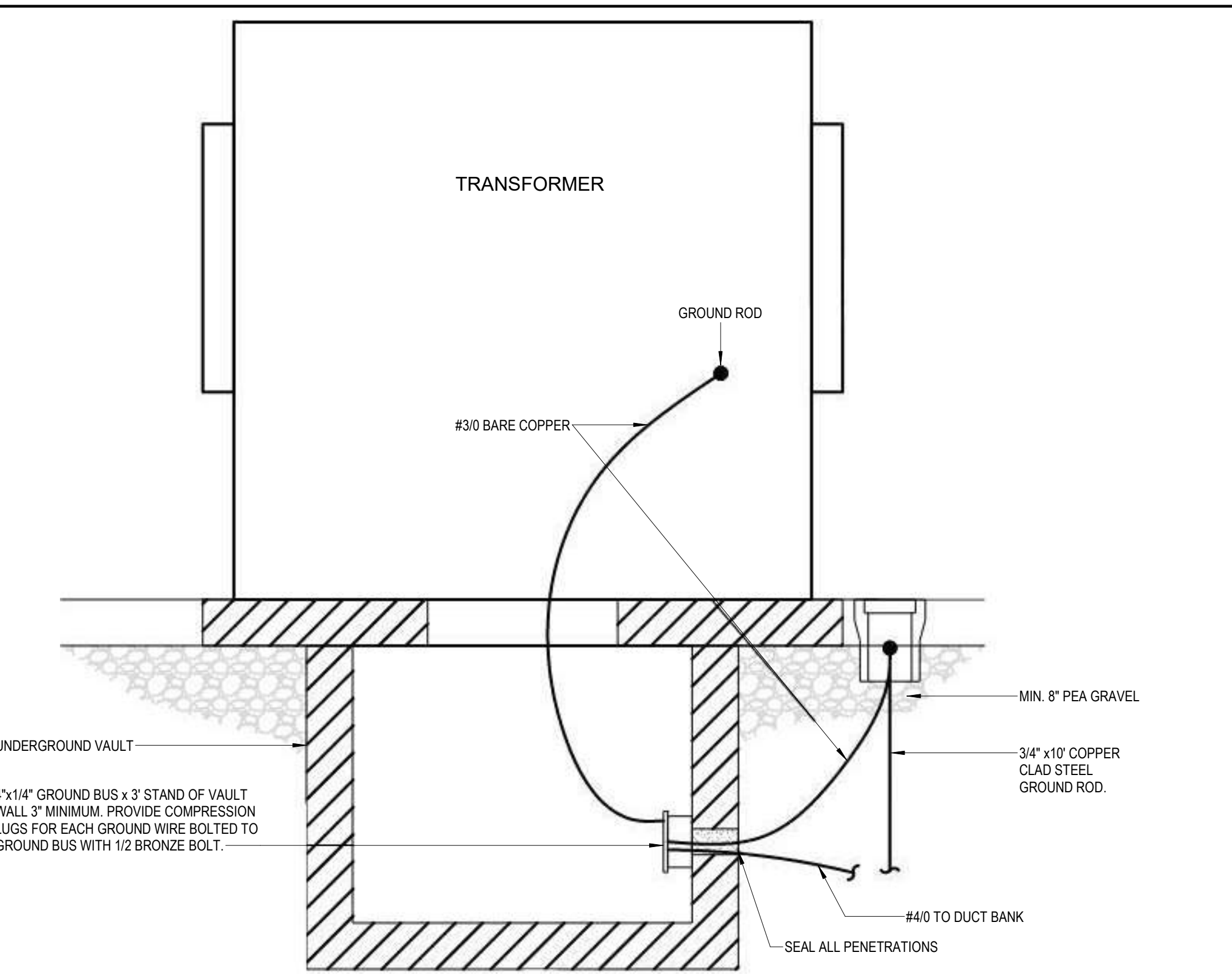
5 PANEL MOUNTING DETAIL
 NO SCALE



6 GROUND ROD BOX DETAIL
 NO SCALE



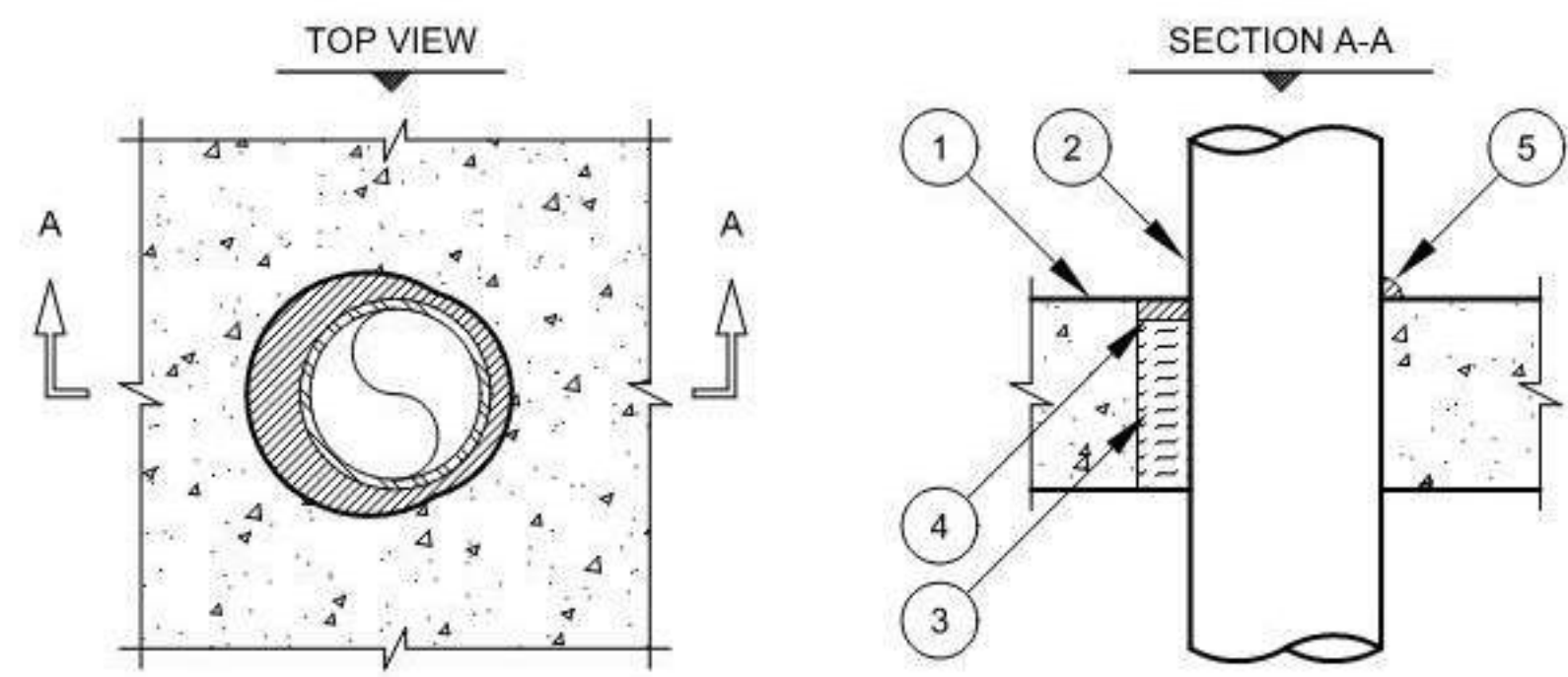
7 PADMOUNT TRANSFORMER GROUNDING
 NO SCALE



8 TRANSFORMER SECTION GROUNDING
 NO SCALE

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt
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F-RATING = 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400° F = 4 CFM/SQ. FT.
W-RATING = CLASS I (SEE NOTE NO. 4 BELOW)



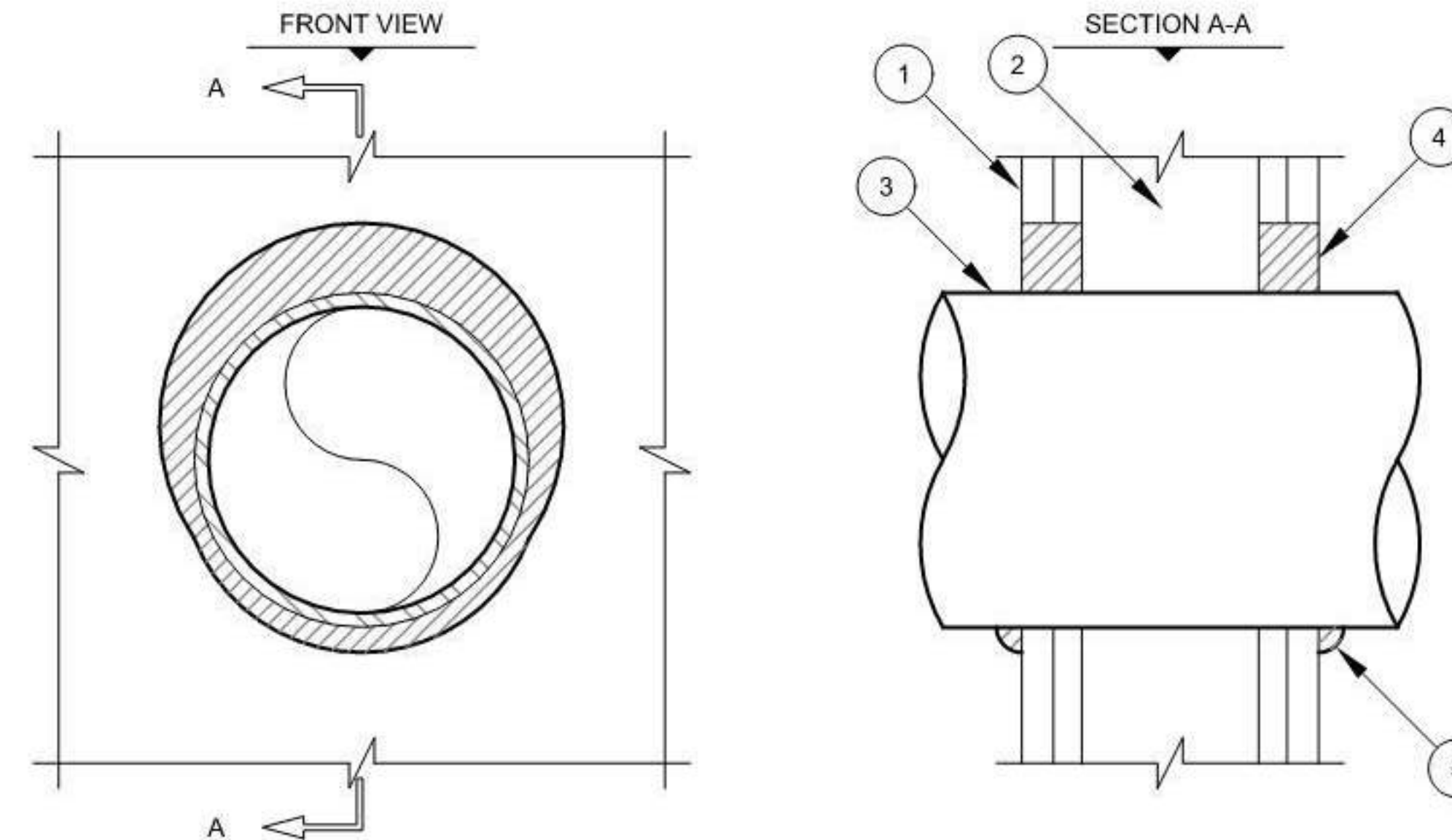
- CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
 - ANY LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
 - ANY UL/CUL CLASSIFIED CONCRETE BLOCK WALL.
- PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - MAXIMUM 10" NOMINAL DIAMETER CAST IRON PIPE.
 - MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
 - MAXIMUM 4" NOMINAL DIAMETER EMT.
- MINIMUM 3" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR NOMINAL 4" DIAMETER (AND SMALLER), AND MINIMUM 4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR PIPES GREATER THAN NOMINAL 4" DIAMETER.
- MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT.
- MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT. (NOT REQUIRED WHEN CP 604 SELF-LEVELING FIRESTOP SEALANT IS USED, ITEM NO. 4).

NOTES:

- MAXIMUM DIAMETER OF OPENING = 12".
- ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".
- MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
- W-RATING APPLIES ONLY WHEN CP 601S ELASTOMERIC FIRESTOP SEALANT OR CP 604 SELF-LEVELING FIRESTOP SEALANT IS USED.

METAL PIPE THROUGH CONCRETE OR BLOCK WALL/FLOOR
NO SCALE

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400° F = LESS THAN 1 CFM/SQ. FT.



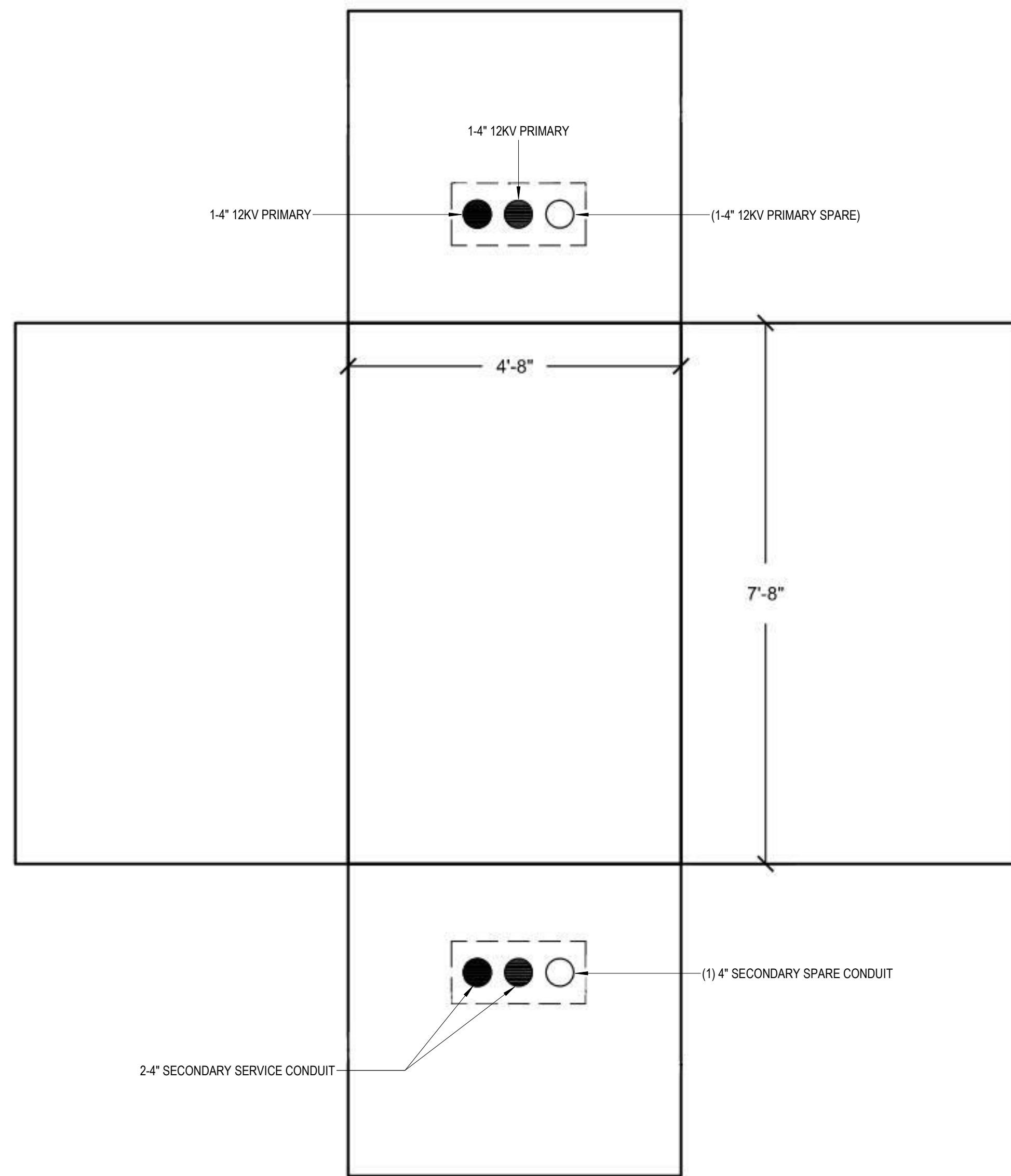
- GYPSUM WALL ASSEMBLY (UL/CUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- (NOT SHOWN) WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
- PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
 - MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
 - MAXIMUM 30" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
 - MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - MAXIMUM 4" NOMINAL DIAMETER EMT.
- HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
 - MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
 - MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
- MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:

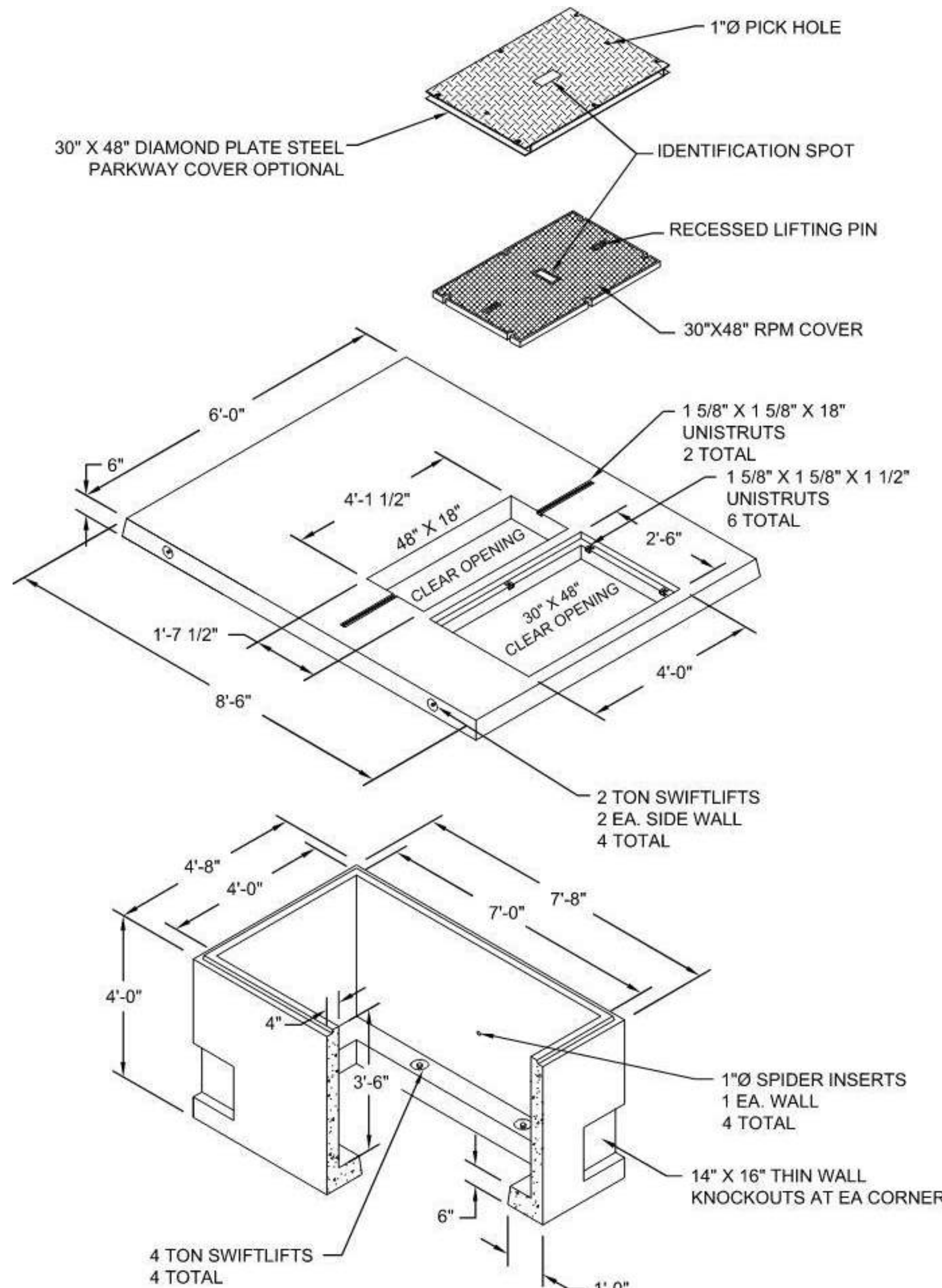
- MAXIMUM DIAMETER OF OPENING = 32".
- ANNULAR SPACE IN 1-HR. WALLS = MINIMUM 0", MAXIMUM 1".
- ANNULAR SPACE IN 2-HR. WALLS = MINIMUM 0", MAXIMUM 2".
- PENETRANT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

METAL PIPE THROUGH 2HR OR 2HR GYPSUM WALL
NO SCALE

DATE PLOTTED: 6/7/2023 4:26:53 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt



CONDUIT VAULT BUTTERFLY DETAIL
NO SCALE



PRECAST TRANSFORMER PAD WITH UNDERGROUND VAULT
NO SCALE

GENERAL NOTES

- PVC CONDUIT END BELL TO MATCH CONDUIT.
- CAP CABLE ENDS IMMEDIATELY AFTER PULL IF CABLE TERMINATIONS ARE TO BE INSTALLED LATER.
- BOND ALL NON CURRENT CARRYING BRACKETS, RACKS AND SUPPORTS TO GROUND LOOP. (IF ANY).
- ALL SPLICE AND TERMINATION SHIELD GROUNDING CONDUCTORS SHALL BE CONNECTED TO GROUND LOOP IN VAULT.
- BOND DUCTBANK GROUNDING CONDUCTOR AND CIRCUIT GROUNDING CONDUCTOR TO GROUND LOOP.
- TAG ALL CABLES PER SPECIFICATION. TAGS SHALL BE INSTALLED WITHIN 16 INCHES OF CABLE ENTRY AND EXIT OF ACCESSIBLE SPACES SUCH AS MANHOLES, CABLE, TRENCHES, ETC. IDENTIFY CIRCUIT NUMBER, SOURCE LOCATION, TOTAL LENGTH, FROM: SOURCE # (UPSTREAM SWITCHGEAR OR MANHOLE, ETC.) DISTANCE TO: LOAD # (DOWNSTREAM SWITCH, MANHOLE, ETC.) DISTANCE.
- UPON COMPLETION OF ALL CABLE RECONNECTION AND INSTALLATION, RELABEL ALL CABLES WITH PROPER CIRCUIT IDENTIFICATION AND OTHER REQUIRED DATA FOR PROPER IDENTIFICATION.
- ALL CONDUITS SHALL BE SEALED AT CONDUIT ENTRANCE TO PULL BOXES AND CABLE TRENCHES.
- ALL UNUSED CONDUIT SHALL HAVE 3/8" POLYPROPYLENE PULL LINE INSTALLED AND SECURED.
- INSTALL TWO GROUND RODS AND GROUND RING AROUND PERIMETER OF PAD. BOND RODS AND GROUND RING TO GROUNDING SYSTEM. BOND PAD-MOUNTED EQUIPMENT AND CONCURRENT-CARRYING METAL ITEMS TO GROUND SYSTEM. CONNECT ALL CABLE SHIELDS TO GROUND SYSTEM. USE TINED-COPPER CONDUCTOR NOT LESS THAN NO. 2 SWG FOR TAPS TO EQUIPMENT GROUND PAD AND OTHER METAL PARTS. BURY GROUND RING NOT LESS THAN 18 INCHES BELOW GRADE AND 6 INCHES FROM THE FOUNDATION.



560 HIGUERA STREET, SUITE C
SAN LUIS OBISPO, CA 93401
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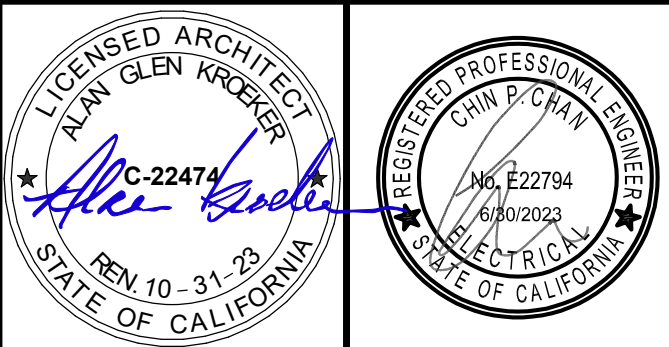
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TEL (888) 600-0324

ARCHITECT STAMP CONSULTANT STAMP



NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-06-09	ME COMMENT REVISION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
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San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE

ELECTRICAL DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-503

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt DATE PLOTTED: 6/7/2023 4:26:54 PM

Branch Panel: EV

Location: ELECTRICAL 112
Supply From: MSA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 0 VA
Total Amps: 0 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for Lighting, HVAC, Power.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Distribution Panel: TP1-DB

Location: ELECTRICAL 112
Supply From: MSA
Mounting: Surface
Enclosure: Type 1
Volts: 208Y/120V
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 16646 VA
Total Amps: 141 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for HVAC, Receptacle, Power, Lighting.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: TP1-P

Location: ELECTRICAL 112
Supply From: TP1-DB
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 3060 VA
Total Amps: 26 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for Receptacle, Power.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: HPL1

Location: ELECTRICAL 112
Supply From: MSA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 713 VA
Total Amps: 7 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for Lighting.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: HPP1

Location: ELECTRICAL 112
Supply From: MSA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 3885 VA
Total Amps: 33 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for HVAC, Appliances - Dwelling Unit, Receptacle, Power.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: TP1-L

Location: ELECTRICAL 112
Supply From: TP1-DB
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 601 VA
Total Amps: 5 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for Lighting.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: HPM1

Location: ELECTRICAL 112
Supply From: MSA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 9773 VA
Total Amps: 82 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for HVAC.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

Branch Panel: TP1-M

Location: ELECTRICAL 112
Supply From: TP1-DB
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: SEE SINGLE LINE DIAGRAM
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: -----

Table with 14 columns: CKT, Type, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, Type, CKT. Rows 1-42.

Total Load: 12886 VA
Total Amps: 108 A

Table with 5 columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows for HVAC.

Legend: E - Existing_per NEC section 220.87
K - Kitchen_per NEC section 220.56
L - Lighting_per NEC section 220.42
M1 - Moto_per NEC section 430.24
M2 - Motor_per NEC section 430.24
PC - Power (Continuous)_per NEC section 210.19(A)1, 215.2(A)1
PN - Power (Non-Continuous)
R - Receptacle_per NEC section 220.44
Notes: 1. 100% FULLY RATED.
2. PROVIDE COPPER BUSSING.
3. DOOR-IN-DOOR CONSTRUCTION.

AGENCY APPROVAL DSA# 03-122884



CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: [Signature] 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel



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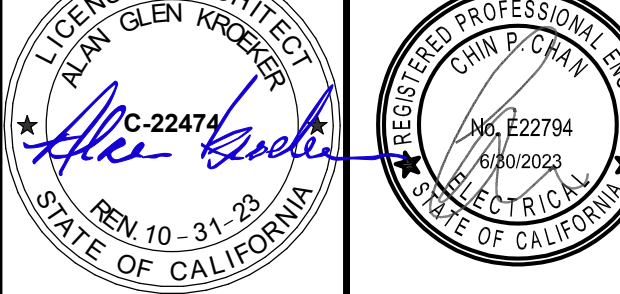
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REVISIONS

Table with 3 columns: NO., DATE, DESCRIPTION. Rows 1-3.

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PROJECT OWNER & TITLE

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SHEET TITLE

ELECTRICAL PANEL
SCHEDULES

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.

E-611

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

Branch Panel: HP2M1													
Location: Space 211			Volts: 120/208 Wye			A.I.C. Rating: SEE SINGLE LINE DIAGRAM							
Supply From:			Phases: 3			Mains Type: MLO							
Mounting: Surface			Wires: 4			Mains Rating: 200 A							
Enclosure: Type 1						MCB Rating: -----							
CKT	Type	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Type	CKT	
1	HVAC	SF-2	15 A	2	832	696			1	15 A	GEF-1	HVAC	2
3	--	--	--	--		832	260		2	15 A	FCU-12	HVAC	4
5	HVAC	SF-1	20 A	2			1040	260	--	--	--	--	6
7	--	--	--	--	1040	100			1	15 A	BEF-3	HVAC	8
9	HVAC	EF-2	20 A	1		100	100		1	15 A	BEF-4	HVAC	10
11	HVAC	AMS-1	20 A	1			360	0	1	20 A	Spare	--	12
13	--	Spare	20 A	1	0	0			1	20 A	Spare	--	14
15	--	Spare	20 A	1		0	0		1	20 A	Spare	--	16
17	--	Spare	20 A	1			0	0	1	20 A	Spare	--	18
19	--	Spare	20 A	1	0	0			1	20 A	Spare	--	20
21	--	Spare	20 A	1		0	0		1	20 A	Spare	--	22
23	--	Spare	20 A	1			0	0	1	20 A	Spare	--	24
25	--	Spare	20 A	1	0	0			1	20 A	Spare	--	26
27	--	Spare	20 A	1		0	0		1	20 A	Spare	--	28
29	--	Spare	20 A	1			0	0	1	20 A	Spare	--	30
31	--	Spare	20 A	1	0	0			1	20 A	Spare	--	32
33	--	Spare	20 A	1		0	0		1	20 A	Spare	--	34
35	--	Spare	20 A	1			0	0	1	20 A	Spare	--	36
37	--	Spare	20 A	1	0	0			1	20 A	Spare	--	38
39	--	Spare	20 A	1		0	0		1	20 A	Spare	--	40
41	--	Spare	20 A	1			0	0	1	20 A	Spare	--	42
Total Load:			2668 VA		111 A	1292 VA		1660 VA					
Total Amps:			23 A		11 A	14 A							
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
HVAC	5620 VA	109.25%	6140 VA										
				Total Conn. Load: 5620 VA									
				Total Est. Demand: 6140 VA									
				Total Conn. Current: 16 A									
				Total Est. Demand Current: 17 A									

Branch Panel: TP1B													
Location: ELECTRICAL 112			Volts: 120/208 Wye			A.I.C. Rating: SEE SINGLE LINE DIAGRAM							
Supply From:			Phases: 3			Mains Type: MLO							
Mounting: Surface			Wires: 4			Mains Rating: 125 A							
Enclosure: Type 1						MCB Rating: -----							
CKT	Type	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Type	CKT	
1	--	Spare	20 A	1	0	0			1	20 A	Spare	--	2
3	--	Spare	20 A	1		0	0		1	20 A	Spare	--	4
5	--	Spare	20 A	1			0	0	1	20 A	Spare	--	6
7	--	Spare	20 A	1	0	0			1	20 A	Spare	--	8
9	--	Spare	20 A	1		0	0		1	20 A	Spare	--	10
11	--	Spare	20 A	1			0	0	1	20 A	Spare	--	12
13	--	Spare	20 A	1	0	0			1	20 A	Spare	--	14
15	--	Spare	20 A	1		0	0		1	20 A	Spare	--	16
17	--	Spare	20 A	1			0	0	1	20 A	Spare	--	18
19	--	Spare	20 A	1	0	0			1	20 A	Spare	--	20
21	--	Spare	20 A	1		0	0		1	20 A	Spare	--	22
23	--	Spare	20 A	1			0	0	1	20 A	Spare	--	24
25	--	Spare	20 A	1	0	0			1	20 A	Spare	--	26
27	--	Spare	20 A	1		0	0		1	20 A	Spare	--	28
29	--	Spare	20 A	1			0	0	1	20 A	Spare	--	30
31	--	Spare	20 A	1	0	0			1	20 A	Spare	--	32
33	--	Spare	20 A	1		0	0		1	20 A	Spare	--	34
35	--	Spare	20 A	1			0	0	1	20 A	Spare	--	36
37	--	Spare	20 A	1	0	0			1	20 A	Spare	--	38
39	--	Spare	20 A	1		0	0		1	20 A	Spare	--	40
41	--	Spare	20 A	1			0	0	1	20 A	Spare	--	42
Total Load:			0 VA		0 VA		0 VA						
Total Amps:			0 A		0 A		0 A						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
				Total Conn. Load: 0 VA									
				Total Est. Demand: 0 VA									
				Total Conn. Current: 0 A									
				Total Est. Demand Current: 0 A									

Branch Panel: HP2P1													
Location: Space 211			Volts: 120/208 Wye			A.I.C. Rating: SEE SINGLE LINE DIAGRAM							
Supply From:			Phases: 3			Mains Type: MLO							
Mounting: Surface			Wires: 4			Mains Rating: 200 A							
Enclosure: Type 1						MCB Rating: -----							
CKT	Type	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Type	CKT	
1	Rec.	WOMEN'S 207 & MEN'S 206	20 A	1	720	200			1	20 A	EXTERIOR LIGHTING	Light...	2
3	Rec.	LOBBY 201	20 A	1		720	820		1	20 A	TENANT SPACE 210 & RESTROOMS	Light...	4
5	Rec.	ROOF HVAC MAINT RECEPPTS	20 A	1			540	0	1	20 A	EXTERIOR LIGHTING	Light...	6
7	Rec.	DRINKING FOUNTAIN	20 A	1	180	64			1	20 A	EXTERIOR LIGHTING	Light...	8
9	--	Spare	20 A	1		0	64		1	20 A	EXTERIOR LIGHTING	Light...	10
11	--	Spare	20 A	1			0	0	1	20 A	Spare	--	12
13	--	Spare	20 A	1	0	0			1	20 A	Spare	--	14
15	--	Spare	20 A	1		0	0		1	20 A	Spare	--	16
17	--	Spare	20 A	1			0	0	1	20 A	Spare	--	18
19	--	Spare	20 A	1	0	0			1	20 A	Spare	--	20
21	--	Spare	20 A	1		0	0		1	20 A	Spare	--	22
23	--	Spare	20 A	1			0	0	1	20 A	Spare	--	24
25	--	Spare	20 A	1	0	0			1	20 A	Spare	--	26
27	--	Spare	20 A	1		0	0		1	20 A	Spare	--	28
29	--	Spare	20 A	1			0	0	1	20 A	Spare	--	30
31	--	Spare	20 A	1	0	0			1	20 A	Spare	--	32
33	--	Spare	20 A	1		0	0		1	20 A	Spare	--	34
35	--	Spare	20 A	1			0	0	1	20 A	Spare	--	36
37	--	Spare	20 A	1	0	0			1	20 A	Spare	--	38
39	--	Spare	20 A	1		0	0		1	20 A	Spare	--	40
41	--	Spare	20 A	1			0	0	1	20 A	Spare	--	42
Total Load:			1154 VA		1154 VA		1962 VA		540 VA				
Total Amps:			10 A		14 A		5 A						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Receptacle	2160 VA	100.00%	2160 VA										
Lighting	1146 VA	125.00%	1432 VA										
				Total Conn. Load: 3237 VA									
				Total Est. Demand: 3513 VA									
				Total Conn. Current: 9 A									
				Total Est. Demand Current: 10 A									

Distribution Panel: TP2-DB													
Location:			Volts: 120/208 Wye			A.I.C. Rating: SEE SINGLE LINE DIAGRAM							
Supply From:			Phases: 3			Mains Type: MLO							
Mounting: Surface			Wires: 4			Mains Rating: 600 A							
Enclosure: Type 1						MCB Rating: -----							
CKT	Type	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Type	CKT	
1	--	PROVISION FOR FUTURE TENANT #1	--	3	--	--			3	--	PROVISION FOR FUTURE TENANT #2	--	2
3	--	--	--	--	--	--			--	--	--	--	4
5	--	--	--	--	--	--			--	--	--	--	6
7	--	PROVISION FOR FUTURE TENANT #3	--	3	--	--			3	--	PROVISION FOR FUTURE TENANT #4	--	8
9	--	--	--	--	--	--			--	--	--	--	10
11	--	--	--	--	--	--			--	--	--	--	12
13	--	PROVISION FOR FUTURE TENANT #5	--	3	--	--			3	--	PROVISION FOR FUTURE TENANT #6	--	14
15	--	--	--	--	--	--			--	--	--	--	16
17	--	--	--	--	--	--			--	--	--	--	18
19	--	PROVISION FOR FUTURE TENANT #7	--	3	--	--			--	--	--	--	20
21	--	--	--	--	--	--			--	--	--	--	22
23	--	--	--	--	--	--			--	--	--	--	24
25	--	--	--	--	--	--			--	--	--	--	26
27	--	--	--	--	--	--			--	--	--	--	28
29	--	--	--	--	--	--			--	--	--	--	30
31	--	--	--	--	--	--			--	--	--	--	32
33	--	--	--	--	--	--			--	--	--	--	34
35	--	--	--	--	--	--			--	--	--	--	36
37	--	--	--	--	--	--			--	--	--	--	38
39	--	--	--	--	--	--			--	--	--	--	40
41	--	--	--	--	--	--			--	--	--	--	42
Total Load:			0 VA		0 VA		0 VA						
Total Amps:			0 A		0 A		0 A						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
				Total Conn. Load: 0 VA									
				Total Est. Demand: 0 VA									
				Total Conn. Current: 0 A									
				Total Est. Demand Current: 0 A									



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560

KEYNOTE LEGEND

- PROVIDE PROVISION FOR A MINIMUM OF 7 FUTURE METERS (PER UNIVERSITY STANDARD) FOR FUTURE TENANTS.
- PROVIDE DIGITAL METER BY E-MON D-MON (OR EQUAL) WITH CT FOR FUTURE FIRST FLOOR TENANT.
- COORDINATE WITH MANUFACTURER AND UNIVERSITY FOR MAINTENANCE TRIP SETTING. COORDINATE WITH UNIVERSITY AND PROVIDE ARC ENERGY REDUCTION. PROVIDE GROUND FAULT PROTECTION AS REQUIRED PER CEC 240.15
- PROVIDE DIGITAL METER BY E-MON D-MON (OR EQUAL) WITH CT.
- ALL METERS SHALL BE REVENUE GRADE ACCURACY AND SHALL BE COMPLIANT TO CAMPUS TENANT METERING WITH INTELLIGENCE TRIP STANDARD. CONNECT TO CAMPUS SCADA SYSTEM FOR REMOTE MONITORING VIA TCP/IP. COORDINATE WITH CAMPUS ELECTRICAL SHOP FOR EXACT REQUIREMENT. BASIS OF DESIGN IS SCHWEITZER ENGINEERING LABORATORY EL-735.
- CONTRACTOR SHALL PROVIDE AND INSTALL PRIMARY FEEDER FROM POWER POLE. COORDINATE WITH UNIVERSITY FOR EXACT FEEDER REQUIREMENT PRIOR TO INSTALLATION. COORDINATE WITH UNIVERSITY FOR OUTAGE SCHEDULE.

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OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
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PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

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ARCHITECT STAMP: *[Signature]*
CONSULTANT STAMP: *[Signature]*

NO.	DATE	DESCRIPTION
	2022-12-22	ISSUE FOR PLAN CHECK
	2023-03-08	100% CD
	2023-08-09	MR COMMENT REVISION

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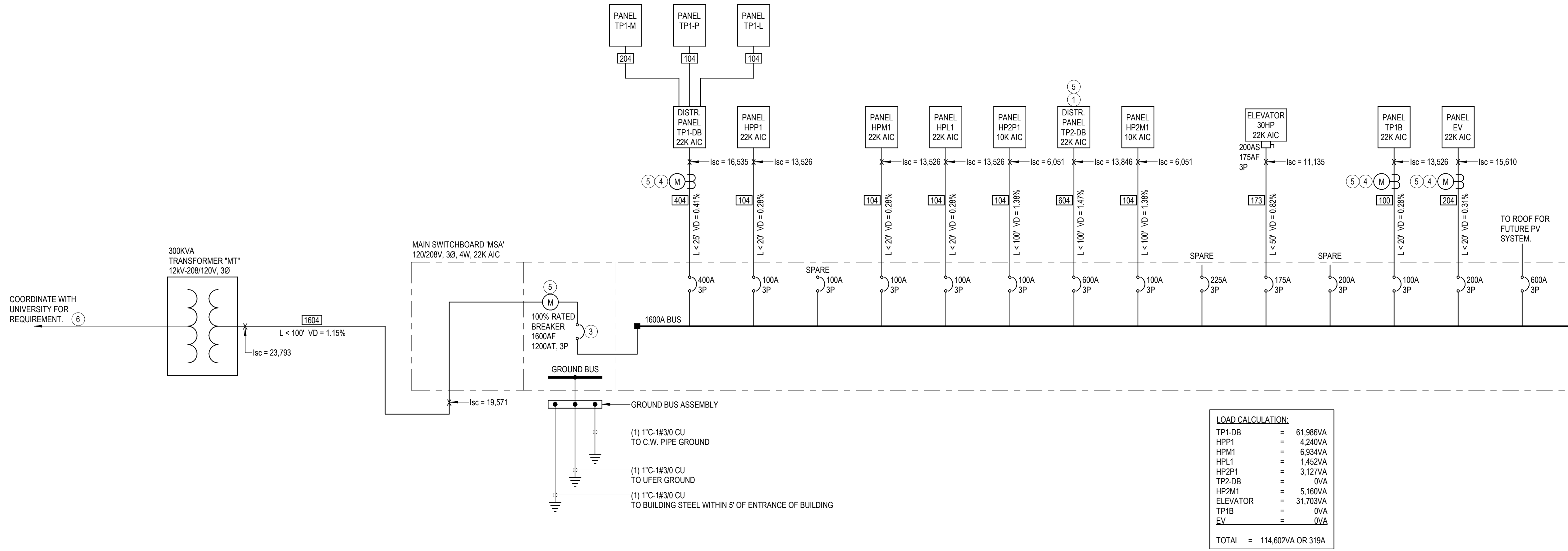
PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM & FIXTURE SCHEDULE

DRAWN BY: *Author* JOB NUMBER: 21179.01

SHEET NO.
E-701
DATE: APRIL 11, 2023



MAIN SWITCHBOARD "MSA"

FEEDER SCHEDULE - CU					
Three Wire Feeders					
Feeder Tag	Qty	Size	*Qty	Size	GND
023	1 ea	3/4"	3 ea	12	12
033	1 ea	3/4"	3 ea	10	10
043	1 ea	1"	3 ea	8	10
053	1 ea	1 1/4"	3 ea	6	10
063	1 ea	1 1/4"	3 ea	4	10
073	1 ea	1 1/4"	3 ea	4	8
083	1 ea	1 1/2"	3 ea	2	8
093	1 ea	1 1/2"	3 ea	2	8
103	1 ea	2"	3 ea	1	8
113	1 ea	2"	3 ea	1	6
123	1 ea	2"	3 ea	1	6
153	1 ea	2"	3 ea	1/0	6
173	1 ea	2"	3 ea	2/0	6
203	1 ea	2 1/2"	3 ea	3/0	6
223	1 ea	2 1/2"	3 ea	4/0	4
253	1 ea	3"	3 ea	250	4
303	1 ea	3"	3 ea	350	4
353	1 ea	3 1/2"	3 ea	500	3
403	1 ea	3 1/2"	3 ea	500	3
453	2 ea	2 1/2"	3 ea	4/0	2
503	2 ea	3"	3 ea	250	2
603	2 ea	3"	3 ea	350	1
703	2 ea	3 1/2"	3 ea	500	1/0
803	2 ea	3 1/2"	3 ea	500	1/0
1003	3 ea	3 1/2"	3 ea	400	2/0
1203	3 ea	3 1/2"	3 ea	600	3/0
1603	4 ea	3 1/2"	3 ea	600	4/0
2003	5 ea	3 1/2"	3 ea	600	250
2503	6 ea	3 1/2"	3 ea	600	350
3003	8 ea	3 1/2"	3 ea	500	400
4003	10 ea	3 1/2"	3 ea	600	500

FEEDER SCHEDULE - CU					
Four Wire Feeders					
Feeder Tag	Qty	Size	*Qty	Size	GND
024	1 ea	3/4"	4 ea	12	12
034	1 ea	3/4"	4 ea	10	10
044	1 ea	1"	4 ea	8	10
054	1 ea	1 1/4"	4 ea	6	10
064	1 ea	1 1/4"	4 ea	4	10
074	1 ea	1 1/4"	4 ea	4	8
084	1 ea	1 1/2"	4 ea	2	8
094	1 ea	1 1/2"	4 ea	2	8
104	1 ea	2"	4 ea	1	8
114	1 ea	2"	4 ea	1	6
124	1 ea	2"	4 ea	1	6
154	1 ea	2"	4 ea	1/0	6
174	1 ea	2"	4 ea	2/0	6
204	1 ea	2 1/2"	4 ea	3/0	6
224	1 ea	2 1/2"	4 ea	4/0	4
254	1 ea	3"	4 ea	250	4
304	1 ea	3"	4 ea	350	4
354	1 ea	3 1/2"	4 ea	500	3
404	1 ea	3 1/2"	4 ea	500	3
454	2 ea	2 1/2"	4 ea	4/0	2
504	2 ea	3"	4 ea	250	2
604	2 ea	3"	4 ea	350	1
704	2 ea	3 1/2"	4 ea	500	1/0
804	2 ea	3 1/2"	4 ea	500	1/0
1004	3 ea	3 1/2"	4 ea	400	2/0
1204	3 ea	4"	4 ea	600	3/0
1604	4 ea	4"	4 ea	600	4/0
2004	5 ea	4"	4 ea	600	250
2504	6 ea	4"	4 ea	600	350
3004	8 ea	4"	4 ea	500	400
4004	10 ea	4"	4 ea	600	500

- NOTES:
- CONDUIT SIZE BASED ON EMT, RMC SCHEDULE 40 PVC, FMC AND LTFMC.
 - CONDUIT SIZE UP TO 2-1/2" SHALL BE UPGRADED TO THE NEXT LARGER SIZE WHERE IT IS USED FOR UNDERGROUND INSTALLATION.
 - WHEN THE OVERCURRENT DEVICE IS LARGER THAN THE CIRCUIT AMPACITY SHOWN ABOVE, (ie: MOTOR CIRCUITS COVERED BY CEC 430), SIZE THE GND CONDUCTOR PER CEC 250-122.

FIXTURE TAG	MANUFACTURER & CATALOG NO.	VOLTAGE	VA	NOTES
A	LITHONIA LIGHTING: ENVX HRCG 2X4 600LM 80CRI 40K MINI ZT MVOLT. SAME AS TYPE "A" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	50W	
A1	MARK LIGHTING: WHSPR LCTR 2X4 80CRI 35K 600LM MN10 MVOLT SWC ZT SAME AS TYPE "A1" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	57W	ALTERNATIVE OPTION 1
A2	LITHONIA LIGHTING: 2BLT4 60L ADP G21 LP840. SAME AS TYPE "A2" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	48W	ALTERNATIVE OPTION 2
B	LITHONIA LIGHTING: ENVX HRCG 4800LM 80CRI 40K MINI ZT MVOLT. SAME AS TYPE "B" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	45W	
B1	MARK LIGHTING: WHSPR LCTR 2X2 80CRI 35K 4800LM MN10 MVOLT SWC ZT. SAME AS TYPE "B1" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	50W	ALTERNATIVE OPTION 1
B2	LITHONIA LIGHTING: 2BLT2 48L ADP G21 LP840. SAME AS TYPE "B2" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	44W	ALTERNATIVE OPTION 2
C	LITHONIA LIGHTING: STL 4 30L GZ10 LP840. SAME AS TYPE "C" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	27W	
C1	LITHONIA LIGHTING: STL 4 48L GZ10 LP840.	120-277V	45.2W	
D	LITHONIA LIGHTING: CLX L48 4000LM SEF FDL MVOLT GZ1 40K 80CRI WH (IF PENDANT ADD ZACPD120-ZAC120).	120-277V	25.5W	
E	LITHONIA LIGHTING: LE SERIES: DIE CAST ALUMINUM EXIT	120-277V	1.5W	
F	LITHONIA LIGHTING: LDNA 40/15 L04AR LSS MVOLT GZ1. SAME AS TYPE "F" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	17.5W	
F1	LITHONIA LIGHTING: LDNA 40/20 L04AR LSS MVOLT GZ1. SAME AS TYPE "F1" WITH CAL T20 EM BATTERY PACK E10WLCP.	120-277V	22.1W	
F1E	GOTHAM LIGHTING: EVO4SH 40/25 DFR SMO MVOLT E210.	120-277V	26W	
G	MARK LIGHTING: SLAL LOP 4FT FLP XX 80CRI 40K 800LMF MINI VOLT ZT.	120-277V	8W/FT	
I	FLUXWERX LIGHTING: TCL P 09 X X FINISH W 2 8 40 E1 M.	120-277V	28W	
S1	LIGMAN: UDU-20106-41W-2-1-W35-XX-120/277V	120-277V	41W	
S2	LITHONIA LIGHTING: DSXB-LED-16C-700-40K-SYM	120-277V	39W	PROVIDE MOTION SENSOR PER TITLE 24.
S3	LIGMAN: UDU-30136-41W-1-W35-XX-120/277V	120-277V	41W	PROVIDE MOTION SENSOR PER TITLE 24.
S4	PINNACLE: WET-N-35-4-IND-XX-U-FSD-1-P-XX	120-277V	4.7W/FT	PROVIDE MOTION SENSOR PER TITLE 24.
S5	LIGMAN: UDU-95036-41W-1-W35-XX-120/277V	120-277V	41W	PROVIDE MOTION SENSOR PER TITLE 24.

Cal Poly Tech Ltg. Fixture Schedule Light Fixture Schedule

GENERAL NOTES:

- A. ALL OUTDOOR VAULTS, MANHOLES AND HANDHOLES SHALL BE EQUIPPED WITH LOCKING DEVICES AND LABELLED, COMMUNICATIONS.
- B. ALL OUTDOOR DEVICES SHALL BE UL RATED FOR OUTDOOR USE.
- C. COORDINATE ALL OUTSIDE PLAN CONDUIT PATHWAYS WITH CIVIL ENGINEER.

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Approved by:  07/18/2023

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ARCHITECT STAMP	CONSULTANT STAMP
	

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
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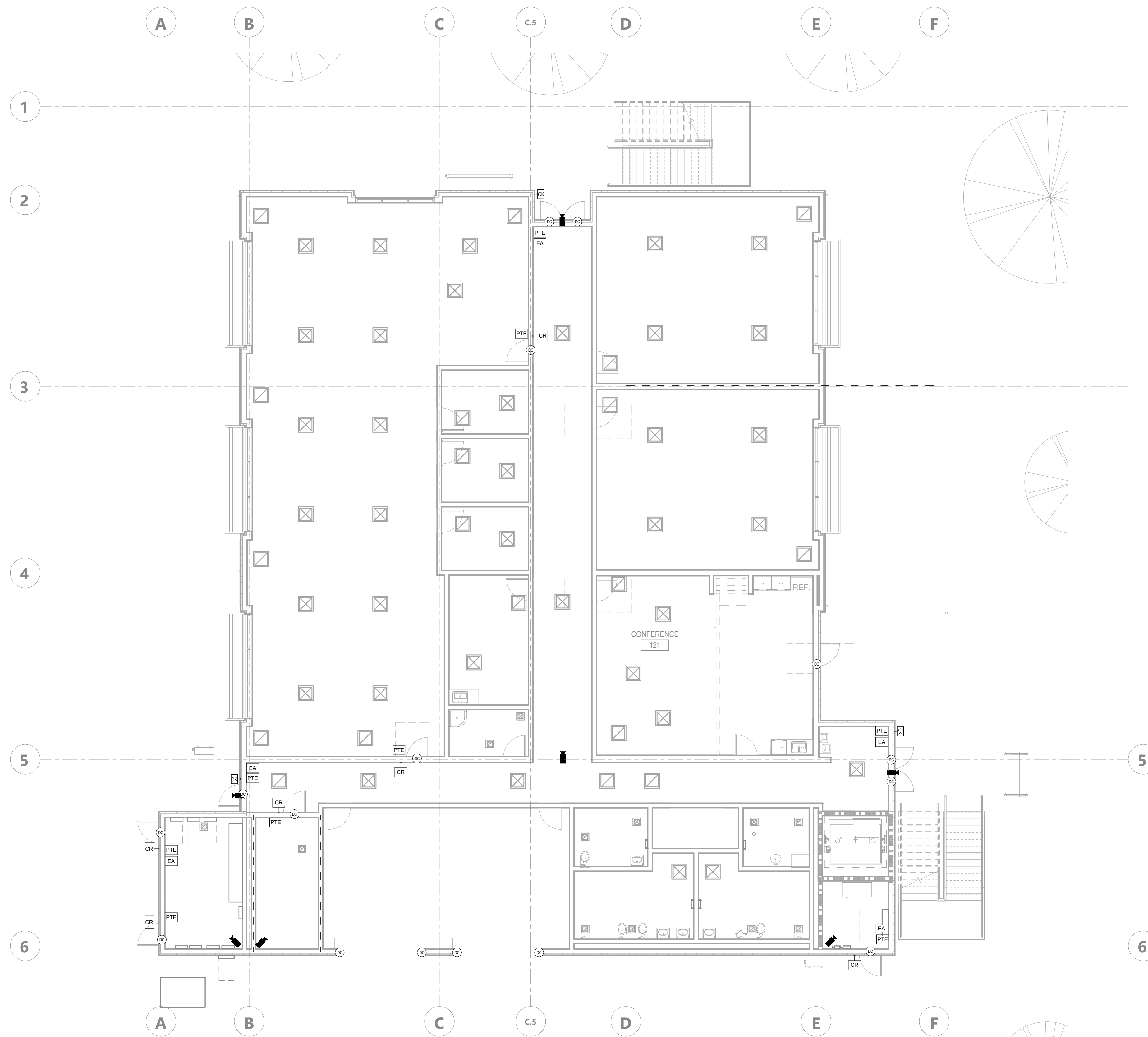
CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
SECURITY SITE PLAN

DRAWN BY: Author JOB NUMBER: 21179.01
SHEET NO.

SE-100
DATE: APRIL 11, 2023

DATE PLOTTED: 4/13/2023 4:24:11 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



GENERAL NOTES:

1. WALL PENETRATIONS / WAO BACK BOXES / SLEEVES / CONDUITS / PULL BOXES / BASKET TRAYS AND GROUNDING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON BOTH ENDS OF ALL CONDUITS AND SLEEVES.
2. ALL IN-WALL WORK AREA OUTLET (WAO) LOCATIONS REQUIRE SINGLE GANG BOXES WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON OPEN END OF CONDUIT.
3. ALL WORKS SHALL COMPLY WITH ANSI / TIA / EIA 568-C.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARDS AND 569.806 AND 607 AND ALL APPLICABLE CODES.
4. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES.
5. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENT SHALL GOVERN BUT THE CONTRACT DOCUMENT SHALL NOT BE INTERPRETED TO VIOLATE ANY CODE OR REGULATION.
6. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND / OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
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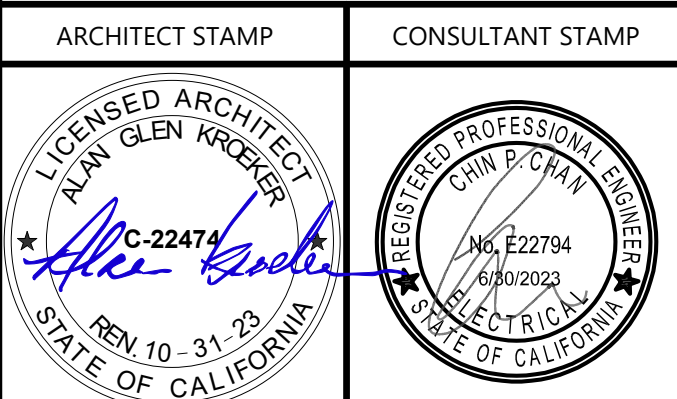
AGENCY APPROVAL **CSU** 03-122884



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CAL POLY TECH
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SHEET TITLE
LEVEL 01 - SECURITY
OVERALL PLAN

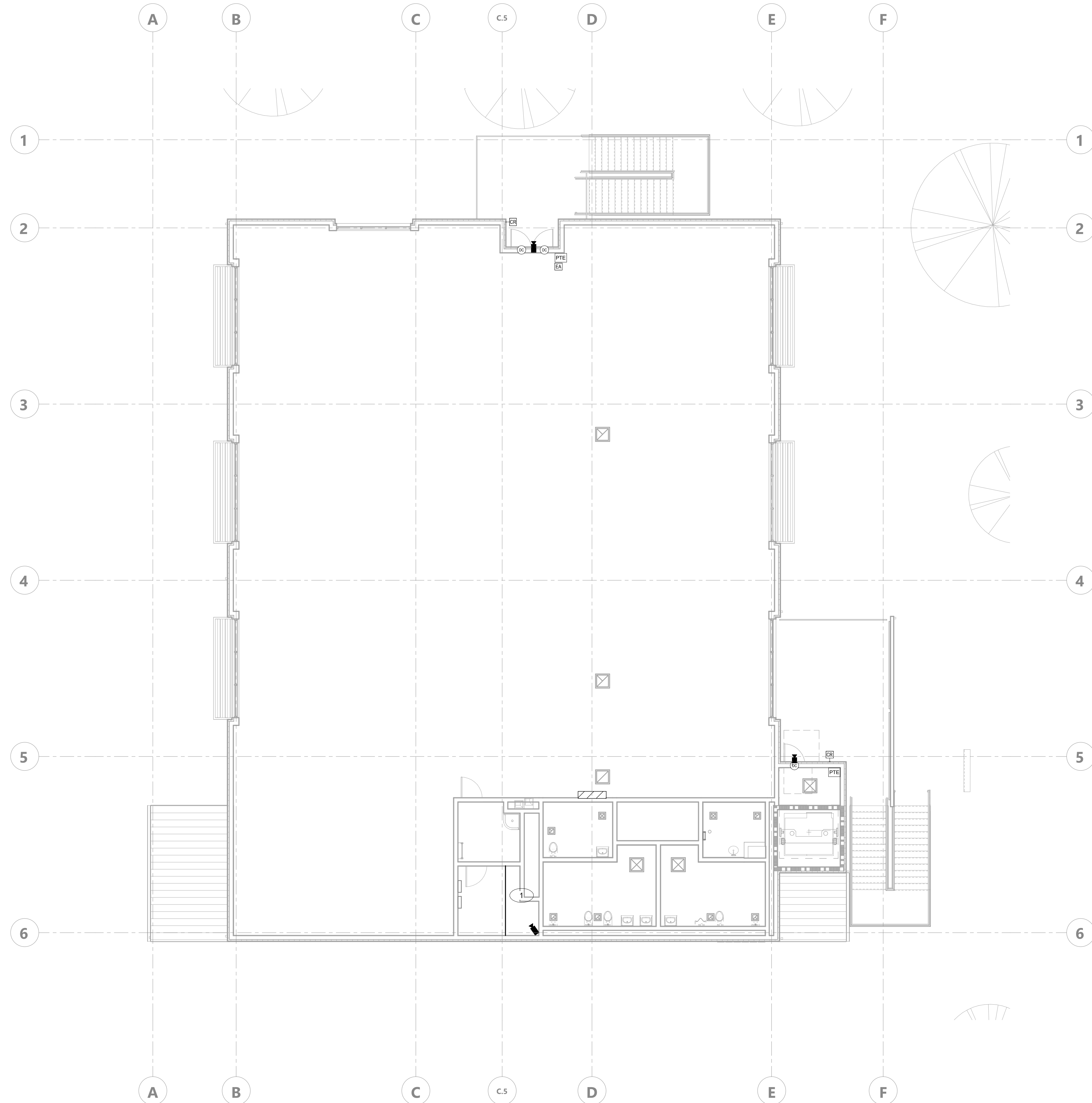
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
SE-111

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:12 PM FILE LOCATION: AutodesK Docs/Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



LEVEL 02 - SECURITY OVERALL PLAN 1/8" = 1'-0" 1

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SHEET NOTES:

1. PROPOSED LEVEL 02 IT ROOM LOCATION.

AGENCY APPROVAL DSAE 03-122884



CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY

Approved by: [Signature] 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shustaf



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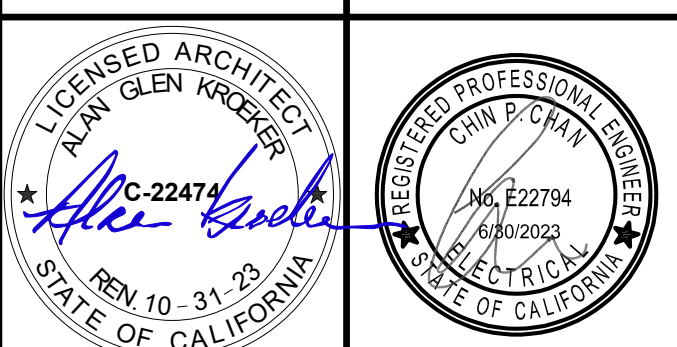
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ARCHITECT STAMP CONSULTANT STAMP



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SHEET TITLE
LEVEL 02 - SECURITY
OVERALL PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

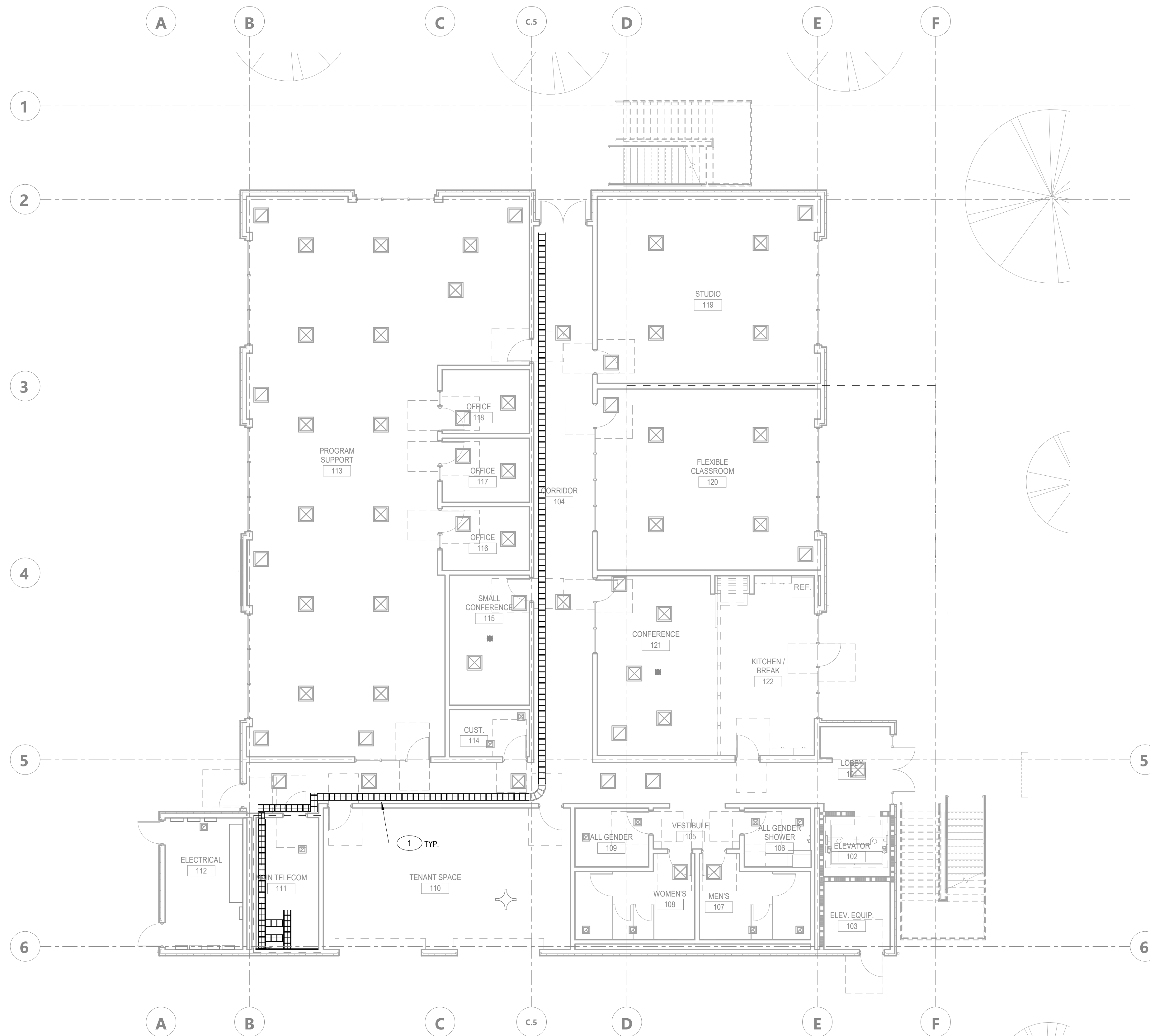
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SE-112

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:12 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



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SHEET NOTES:

1. 12" WIDE HORIZONTAL LADDER RACK.

AGENCY APPROVAL DSAE 03-122884

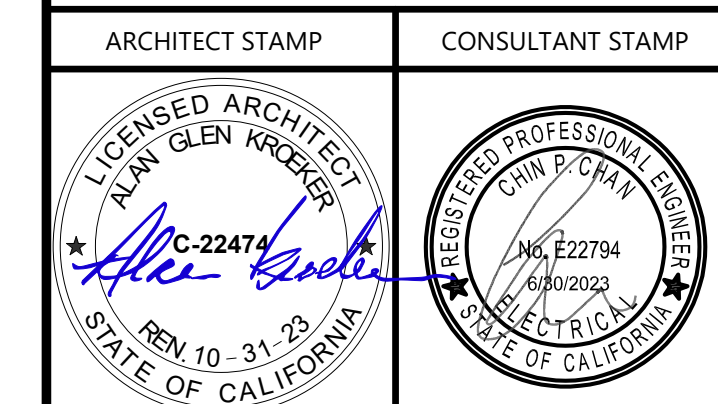


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SHEET TITLE
LEVEL 01 - SECURITY
PATHWAY PLAN

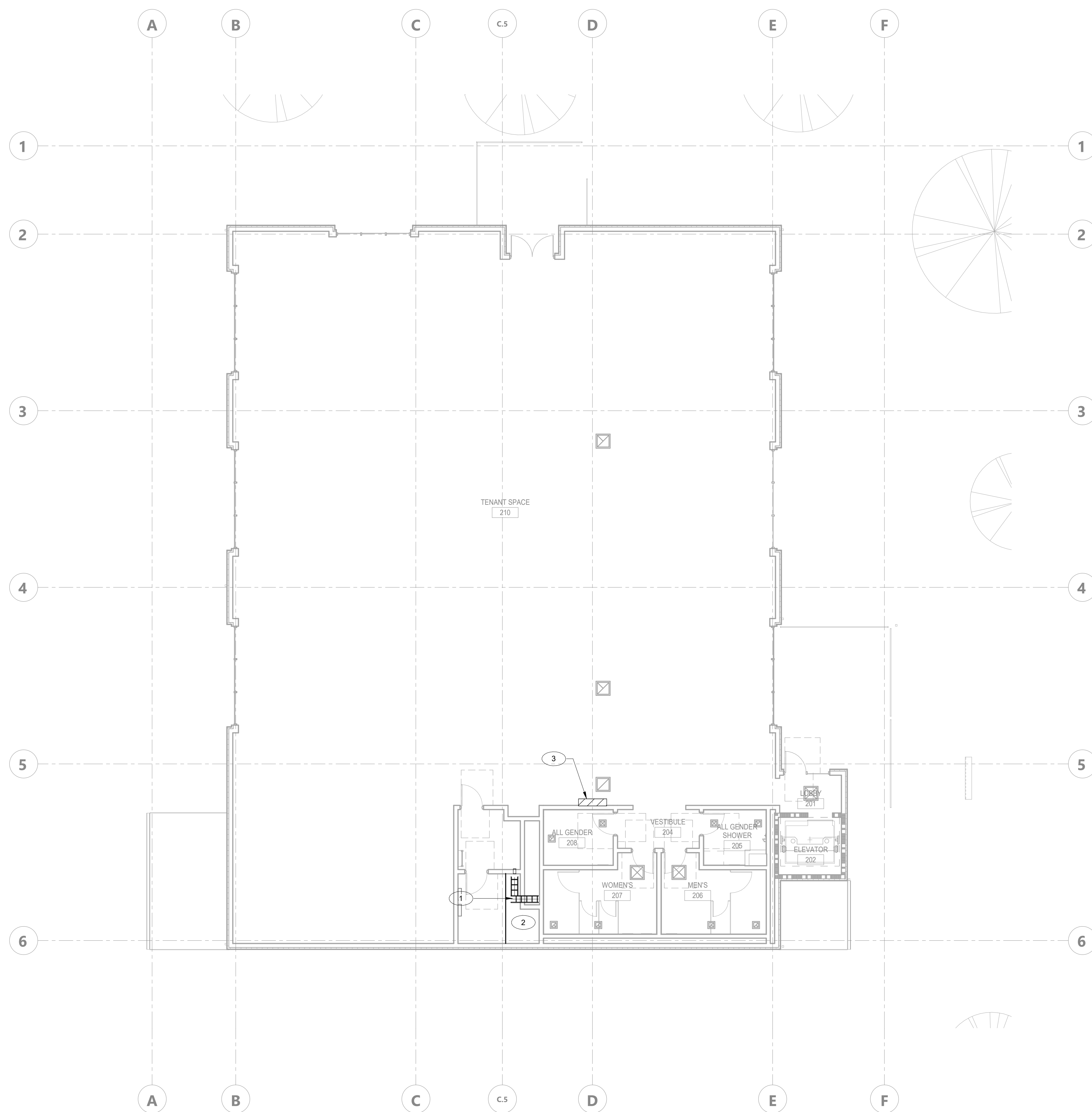
DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
SE-121

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:12 PM FILE LOCATION: AutodesK Docs/Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



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SHEET NOTES:

1. 12" WIDE HORIZONTAL LADDER RACK.
2. PROPOSED LEVEL 02 IT ROOM LOCATION.
3. FOR REFERENCE, E-MON / D-MON ENCLOSURE LOCATION.

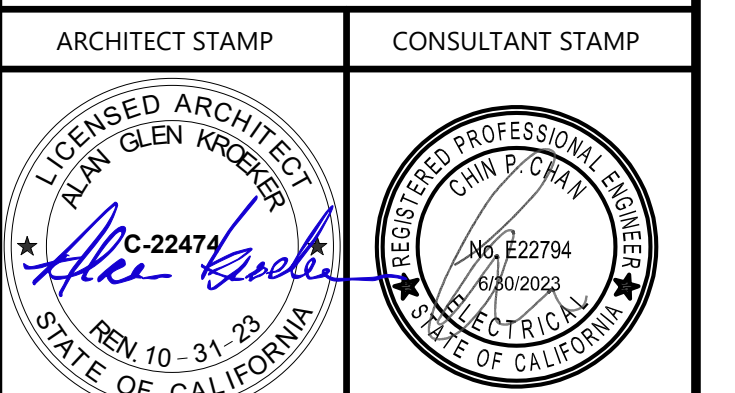
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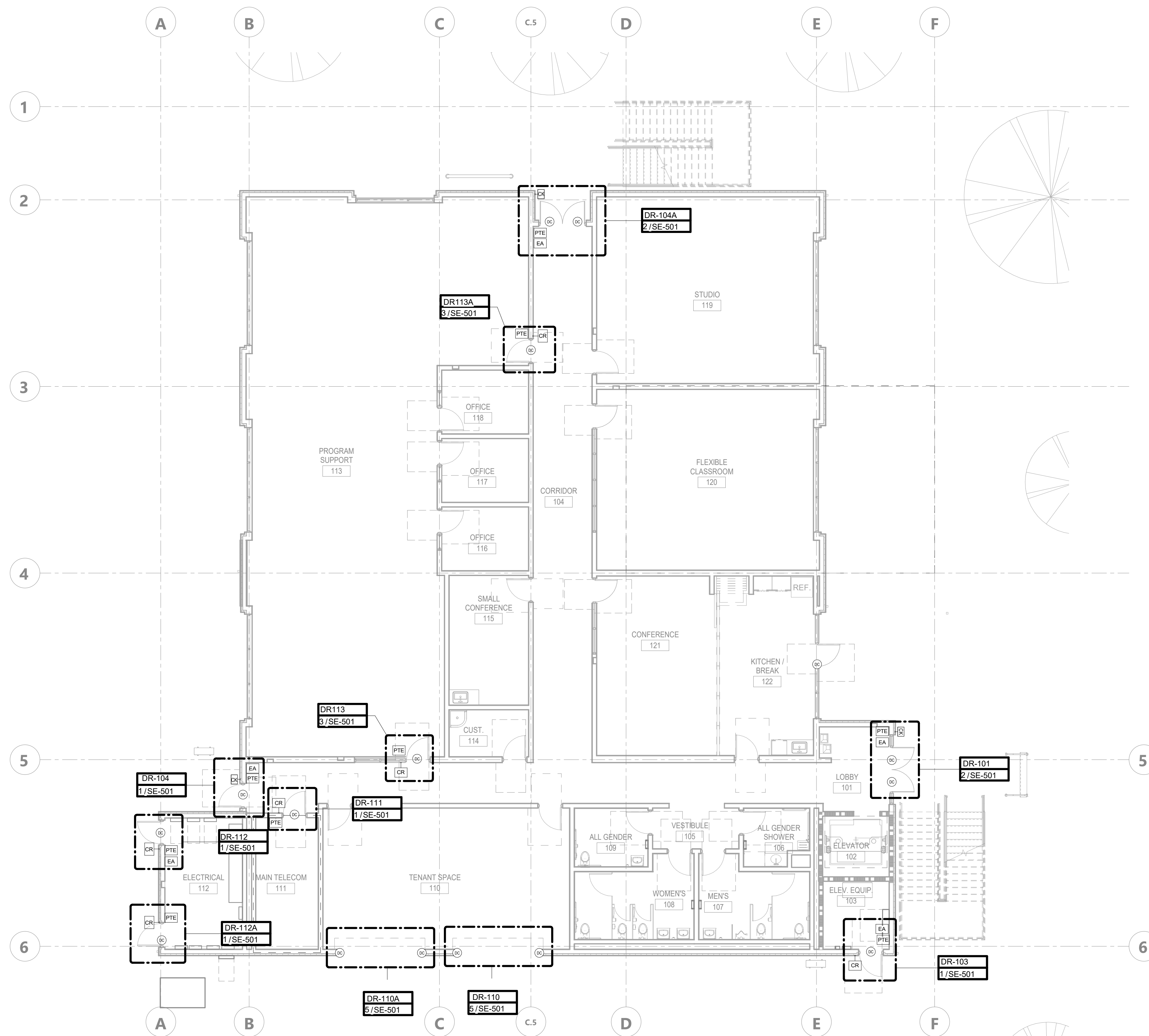
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SHEET NO.
SE-122

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:13 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt



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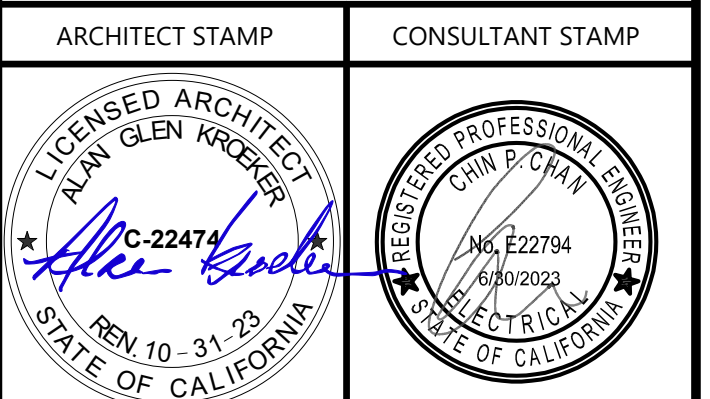
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SHEET TITLE
LEVEL 01 - SECURITY ACCESS CONTROL PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

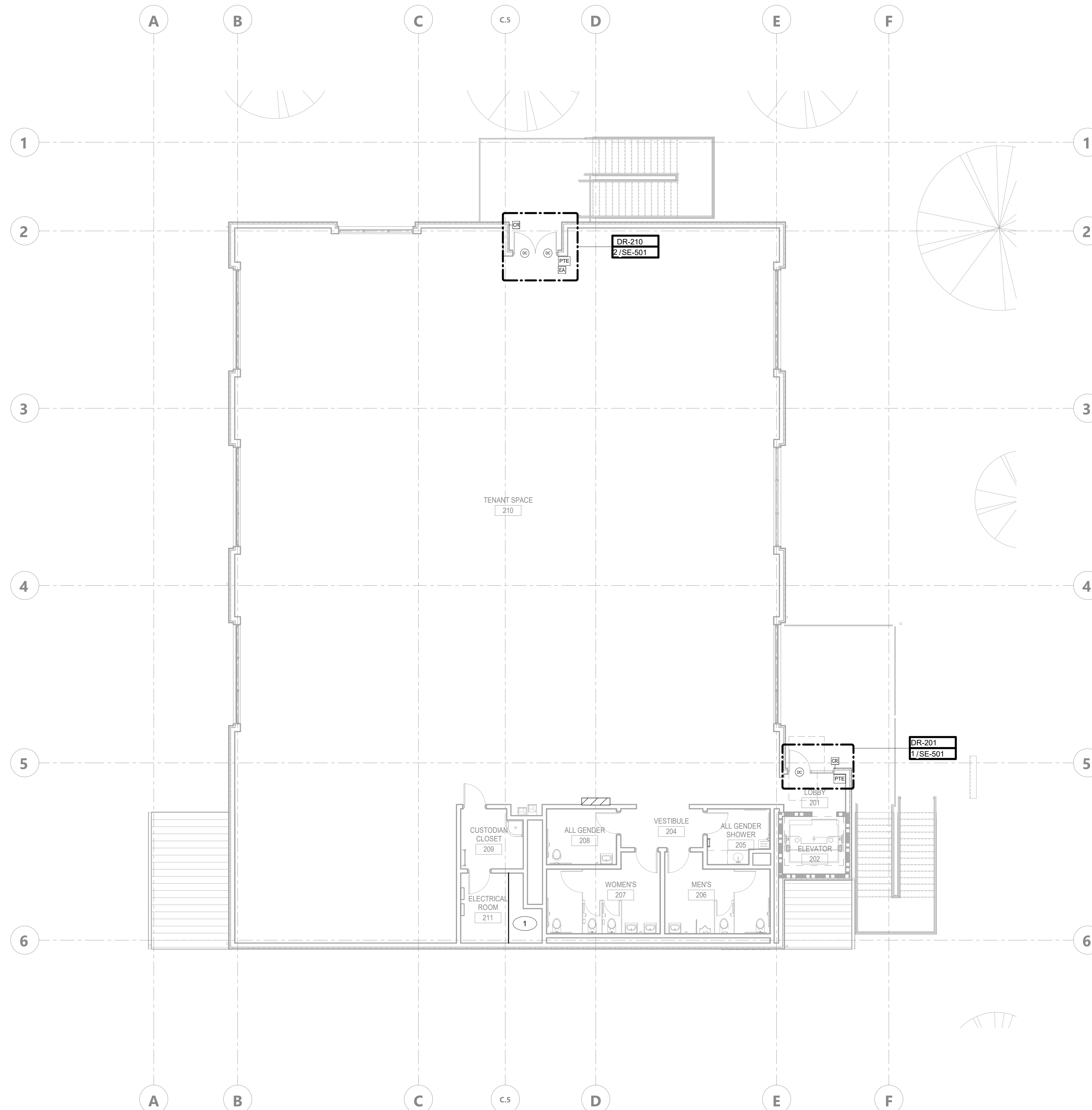
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SE-131

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:14 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



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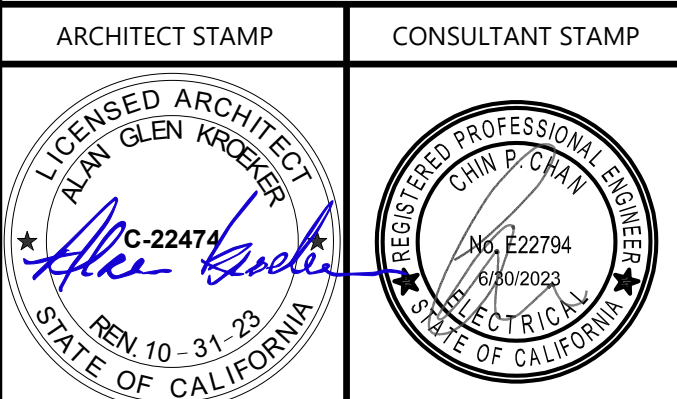
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SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
LEVEL 02 - SECURITY ACCESS CONTROL PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

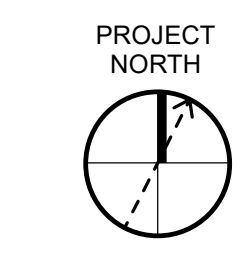
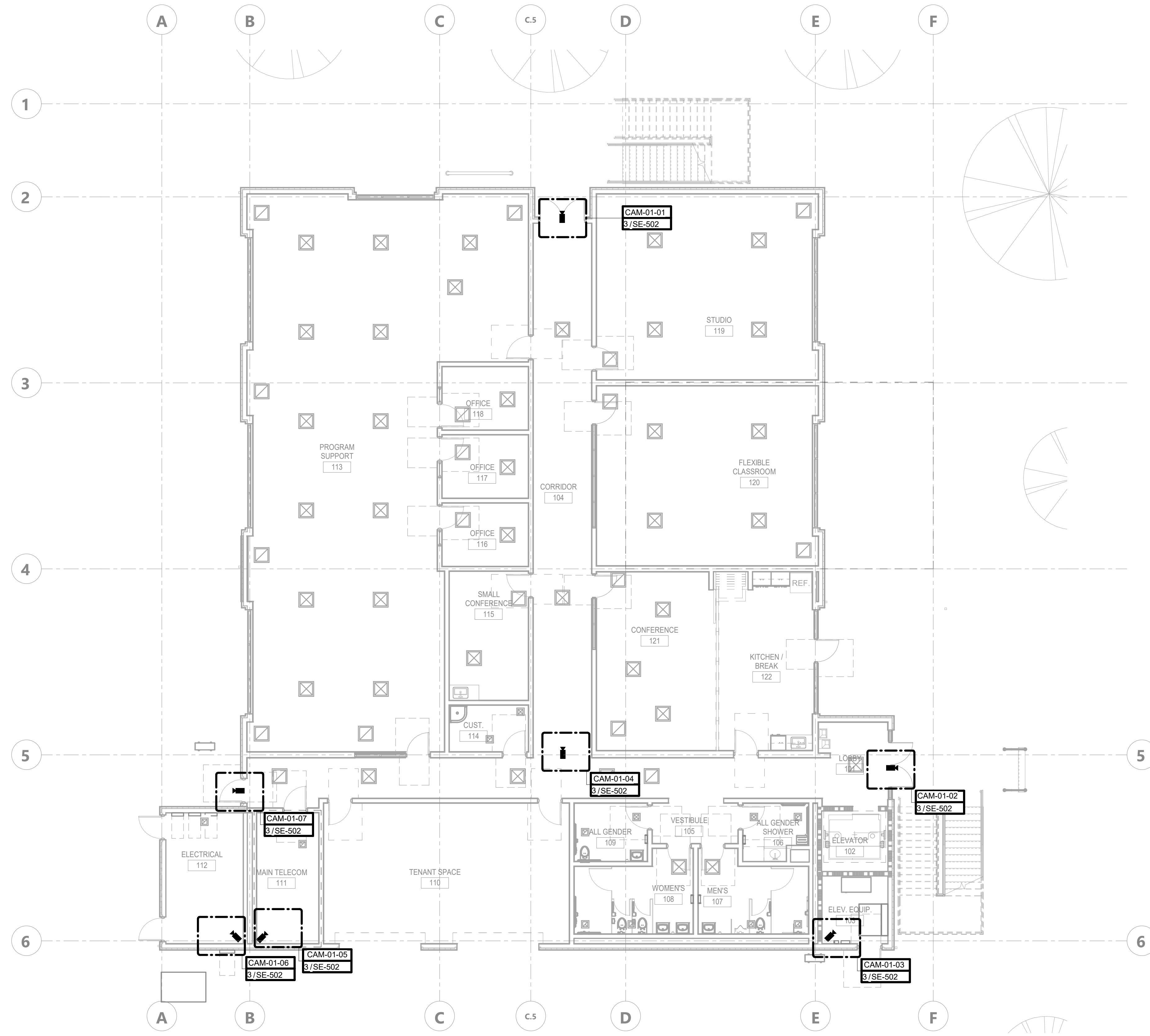
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SE-132

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/13/2023 4:24:16 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt



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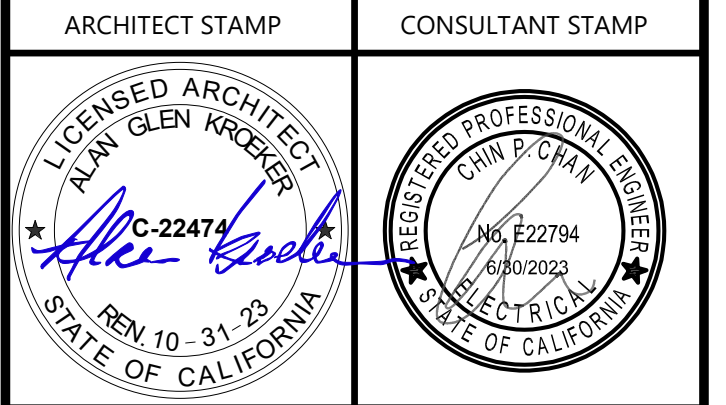
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CAL POLY TECH
PARK - PHASE 2
Mount Bishop Road
San Luis Obispo, CA

SHEET TITLE
LEVEL 01 - SECURITY
CAMERA PLAN

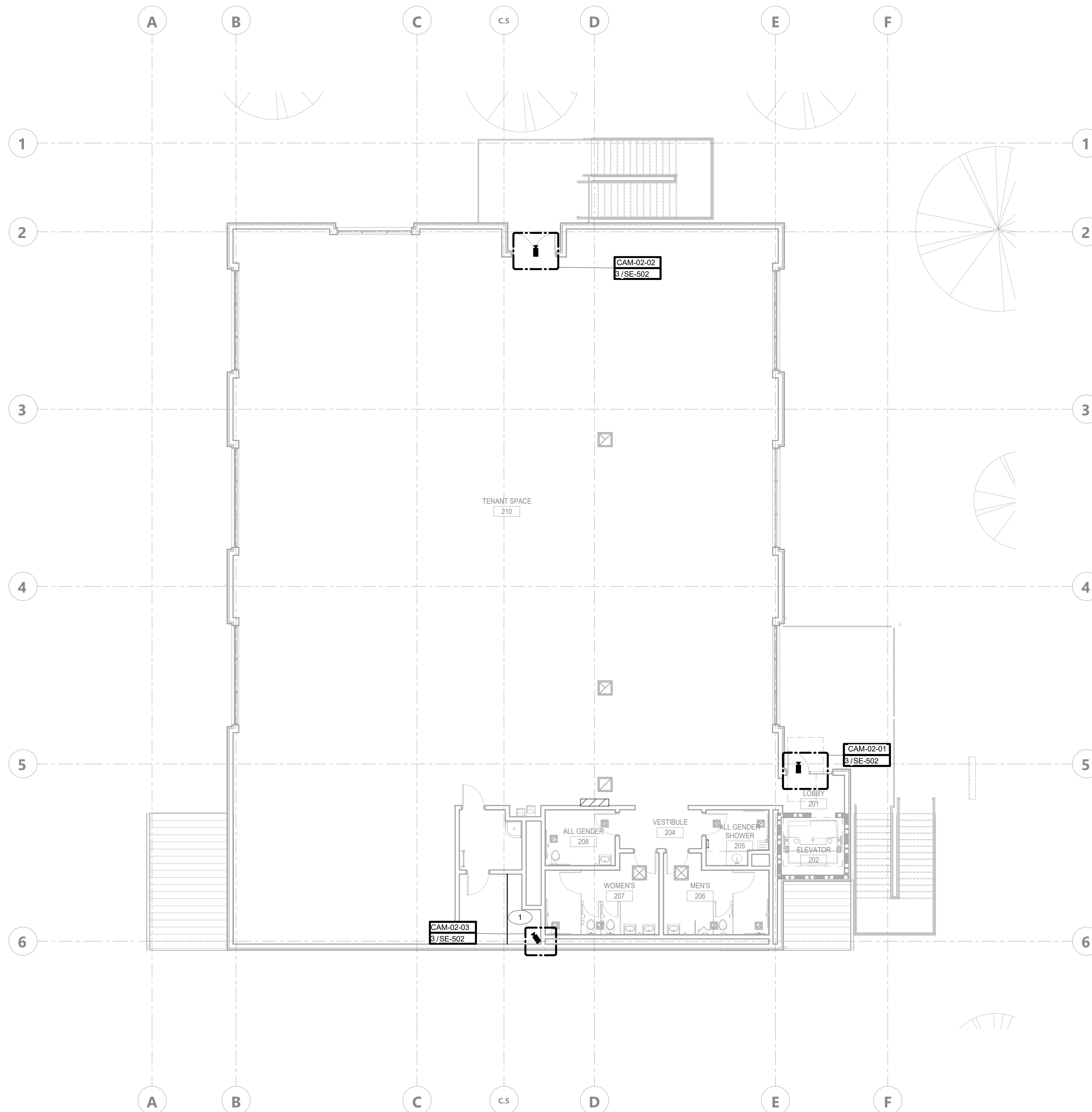
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DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

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SHEET NOTES:

1. PROPOSED LEVEL 02 IT ROOM LOCATION.

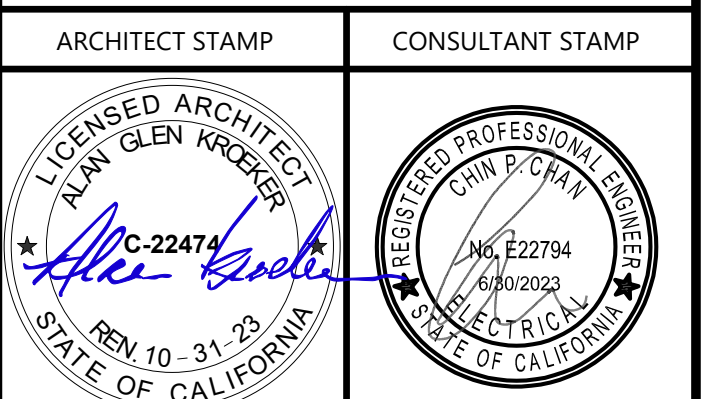
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San Luis Obispo, CA

SHEET TITLE
LEVEL 02 - SECURITY
CAMERA PLAN

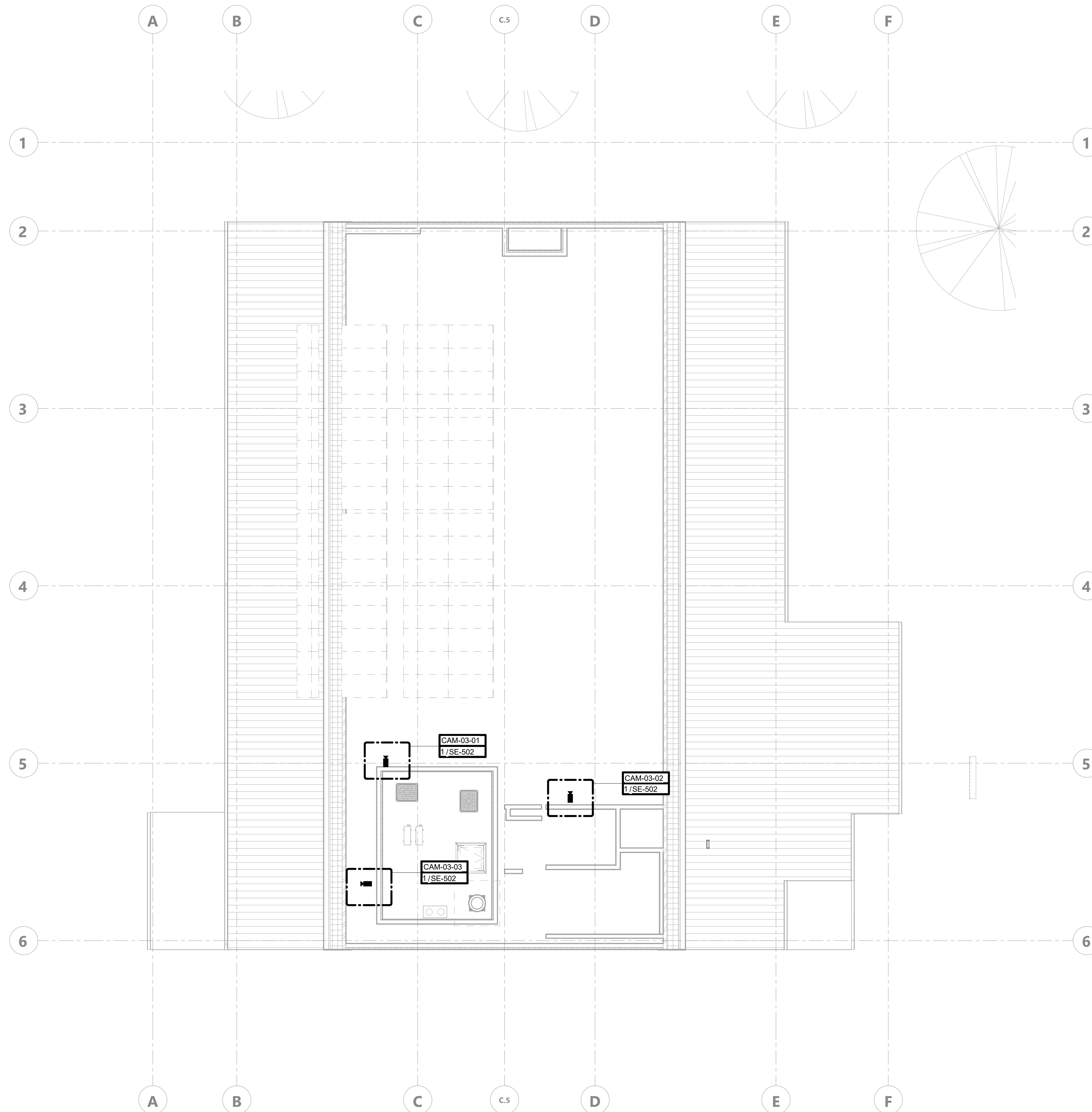
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SHEET NO.
SE-142

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

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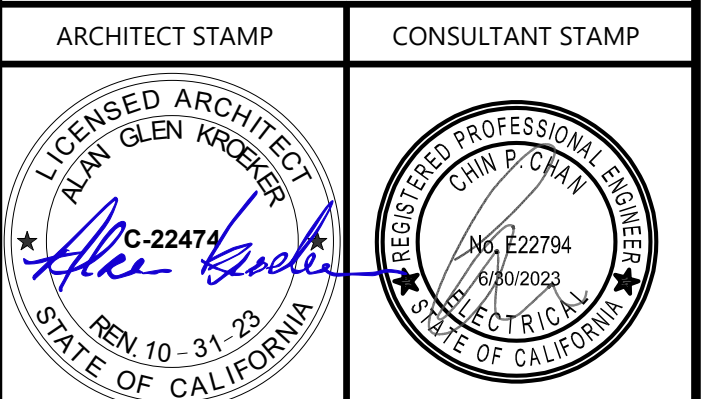
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San Luis Obispo, CA

SHEET TITLE
ROOF - SECURITY
CAMERA PLAN

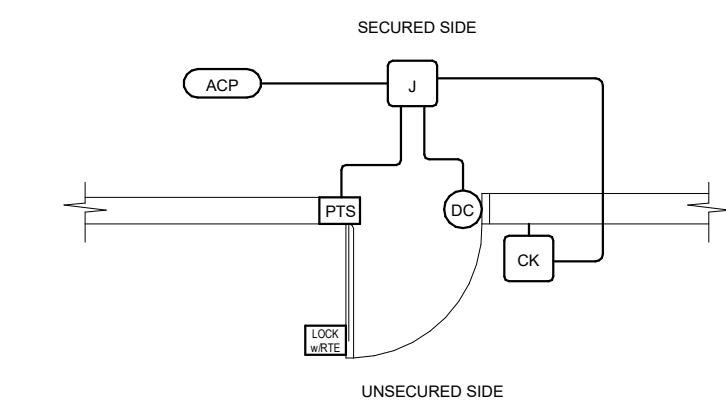
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SHEET NO.
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DATE: APRIL 11, 2023

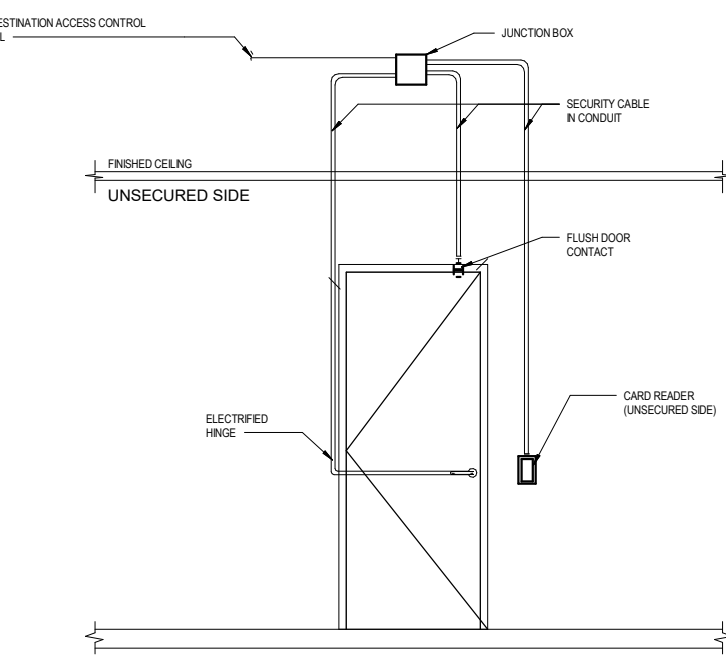
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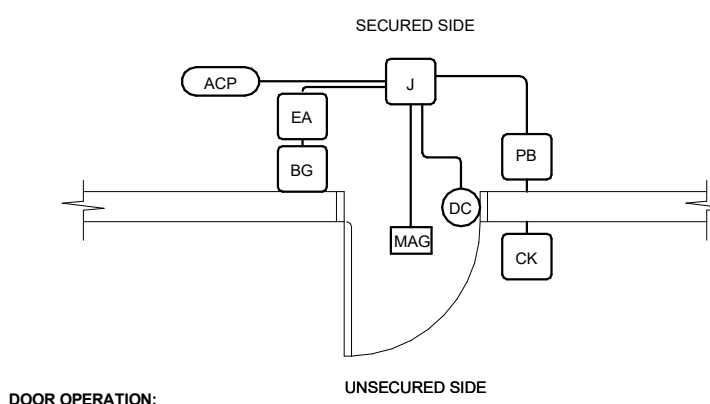
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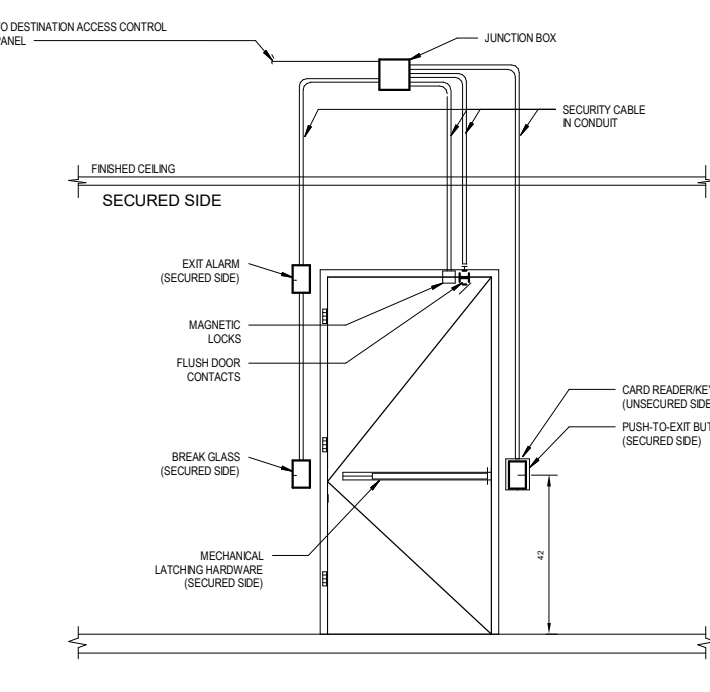
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TY01-12-CARD READER/KEYPAD IN, FREE EXIT, ELECTRIC LOCKSET, DC

6" = 1'-0" 4



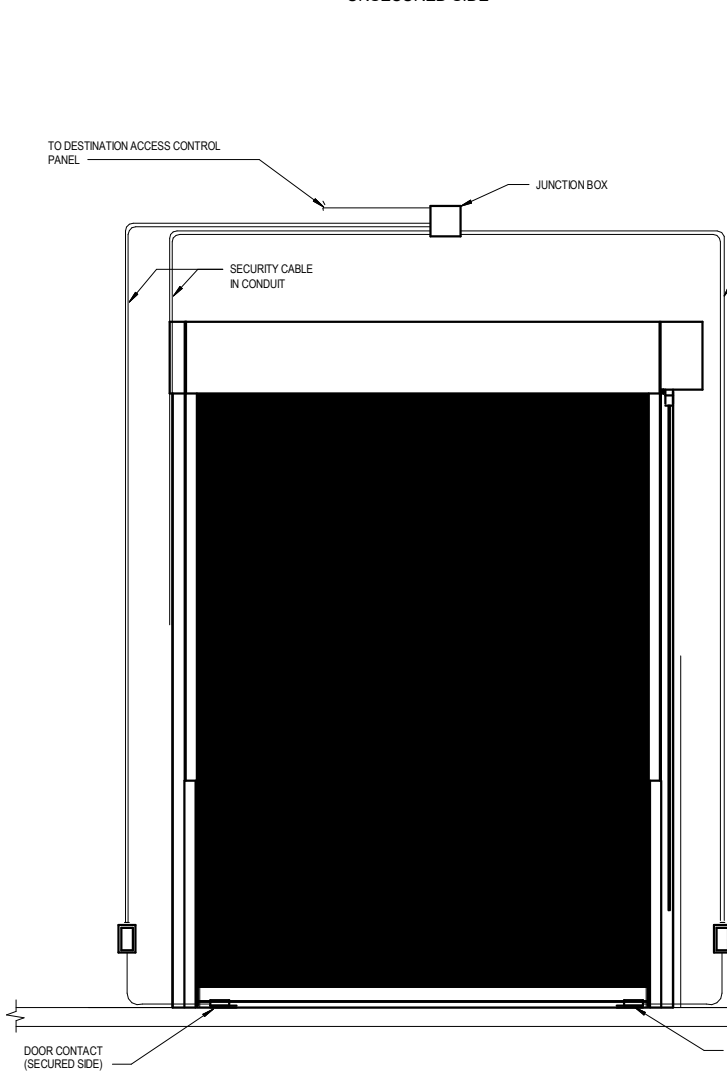
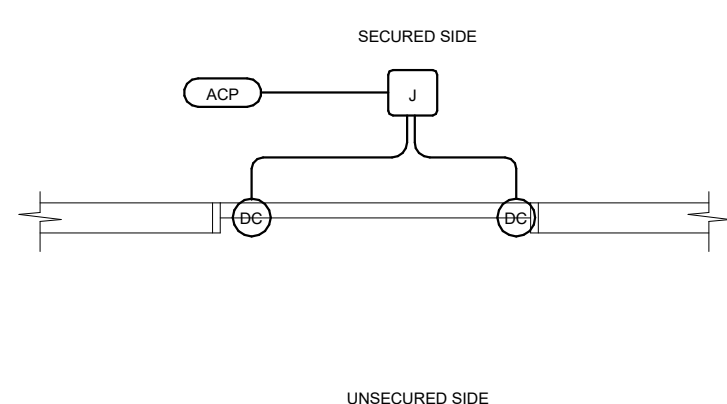
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TY01-09-DOUBLE DOOR, CARD READER/KEYPAD IN/PUSHBUTTON EXIT, MAGLOCK, MECHANICAL LATCHING HARDWARE, BREAK GLASS, EXIT ALARM, DC

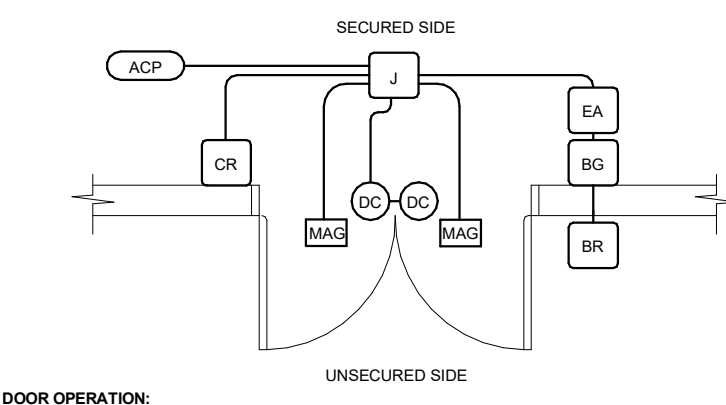
6" = 1'-0" 1



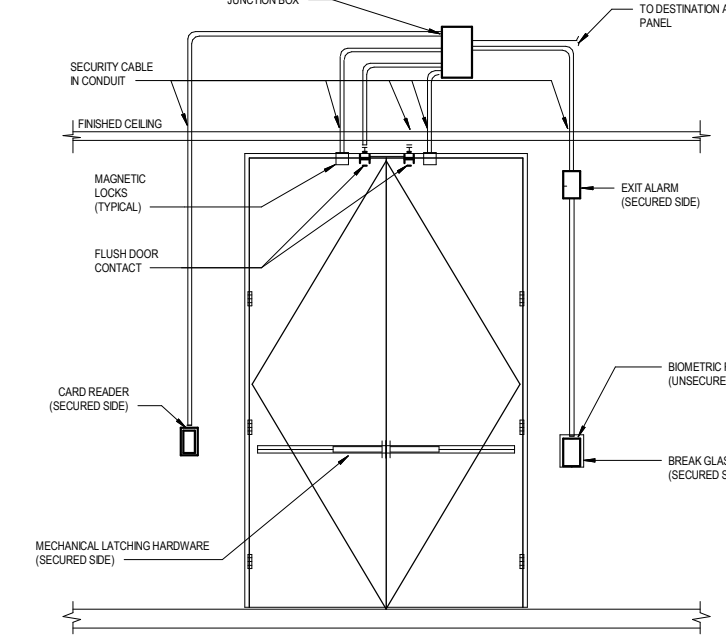
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TY01-13-ROLL-UP DOOR, ALARMED, DUAL SURFACE DC

6" = 1'-0" 5



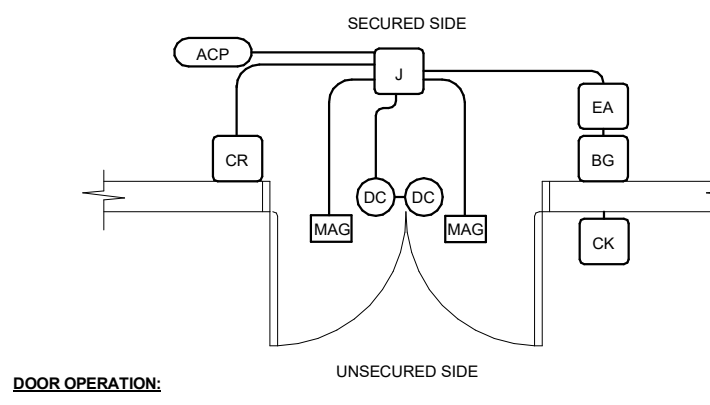
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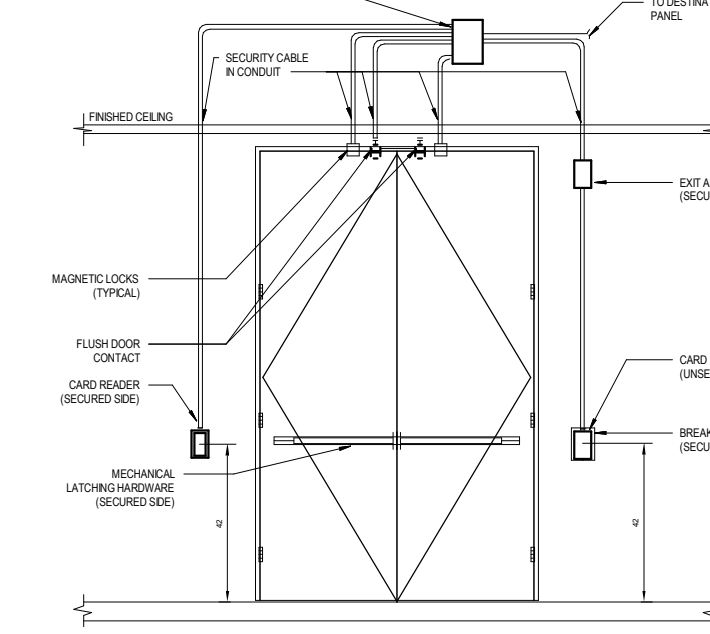
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TY01-11-CARD READER/KEYPAD IN/CARD READER OUT, ELECTRIC LOCKSET WITH RTE SWITCH DC

6" = 1'-0" 3



DOOR OPERATION: 1. UNSECURED SIDE THE DOOR IS EQUIPPED WITH A CARD READER/KEYPAD ON THE PUBLIC SIDE OF THE DOOR TO CONTROL ENTRY INTO A SECURED AREA...



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TY01-05-SINGLE DOOR, CARD READER/KEYPAD IN/PUSHBUTTON EXIT, MAGLOCK, MECHANICAL LATCHING HARDWARE, BREAK GLASS, EXIT ALARM, DC

6" = 1'-0" 2

CSU The California State University OFFICE OF FIRE SAFETY CALIFORNIA STATE FIRE MARSHAL APPROVED PANIC AND LIFE SAFETY ONLY

AMG 26535 SUMMIT CIRCLE SANTA CLARITA, CA 91350 TEL (661) 251-7401

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ARCHITECT STAMP CONSULTANT STAMP LICENSED ARCHITECT STATE OF CALIFORNIA

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SHEET TITLE SECURITY DOOR DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO. SE-501 DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

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OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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Approval of this plan does not authorize or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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SHEET TITLE

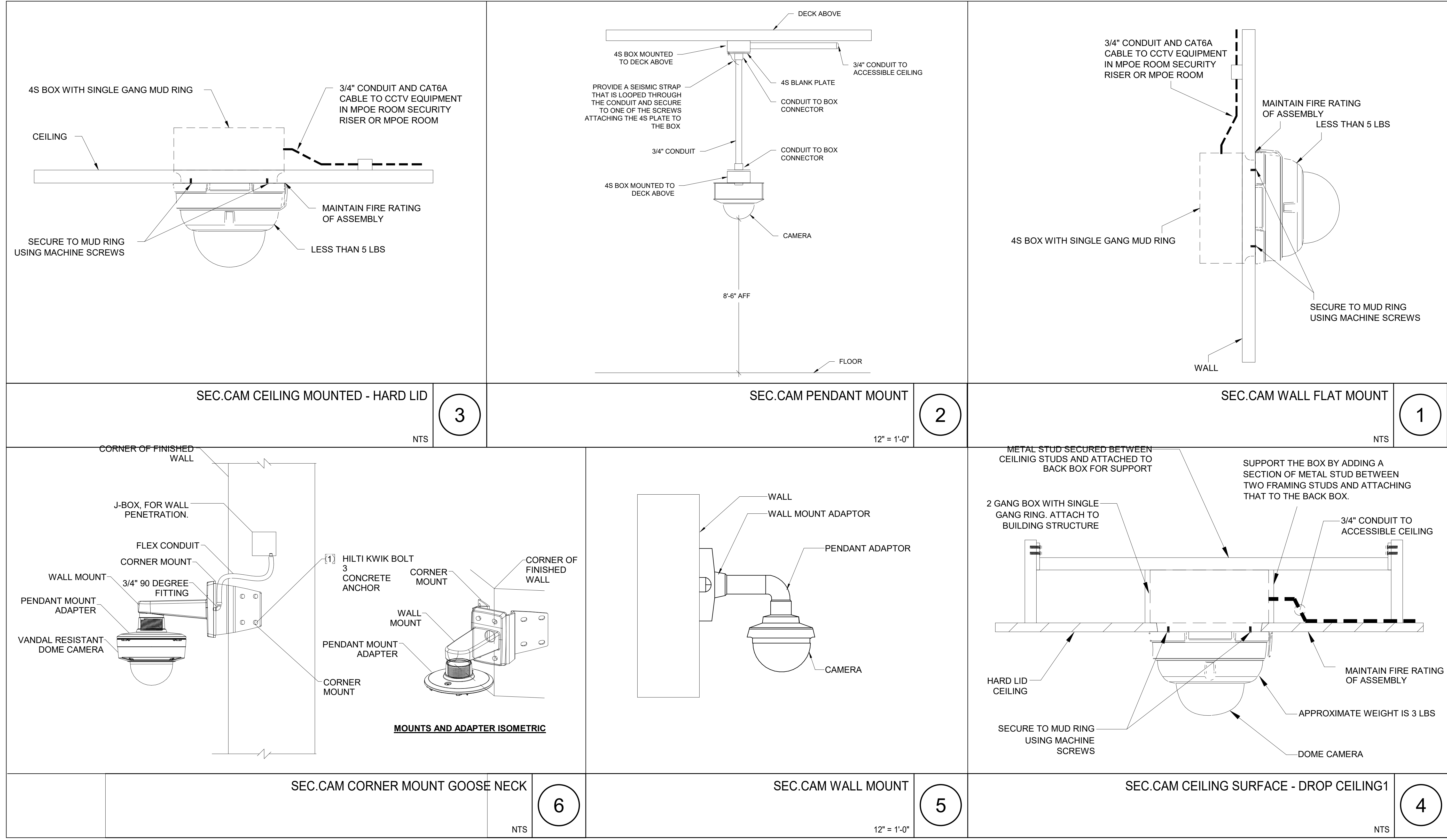
SECURITY CAMERA DETAILS

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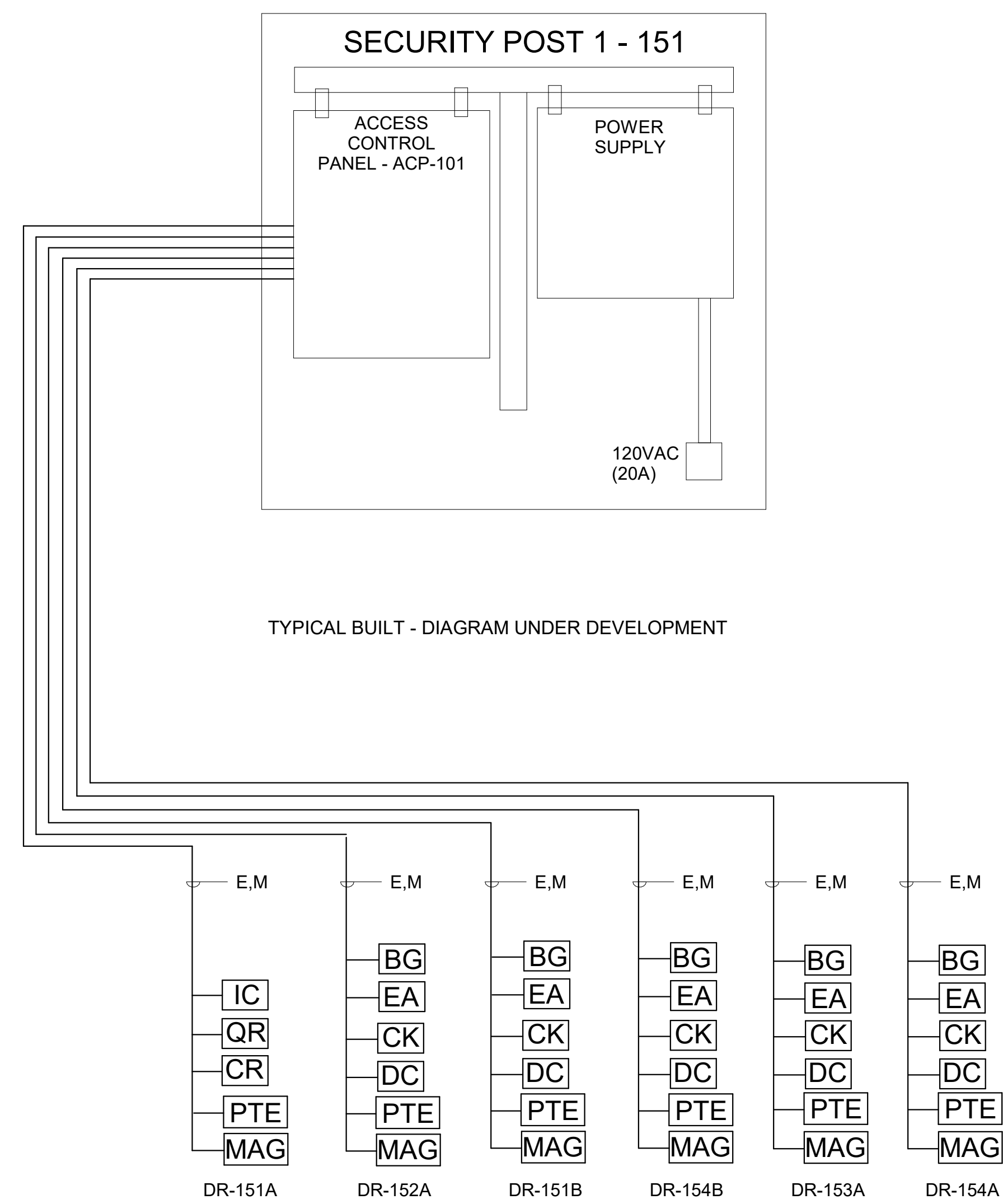
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AGENCY APPROVAL DSM 03-122884

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Approved by: DSM 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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SECURITY ACCESS CONTROL DIAGRAM

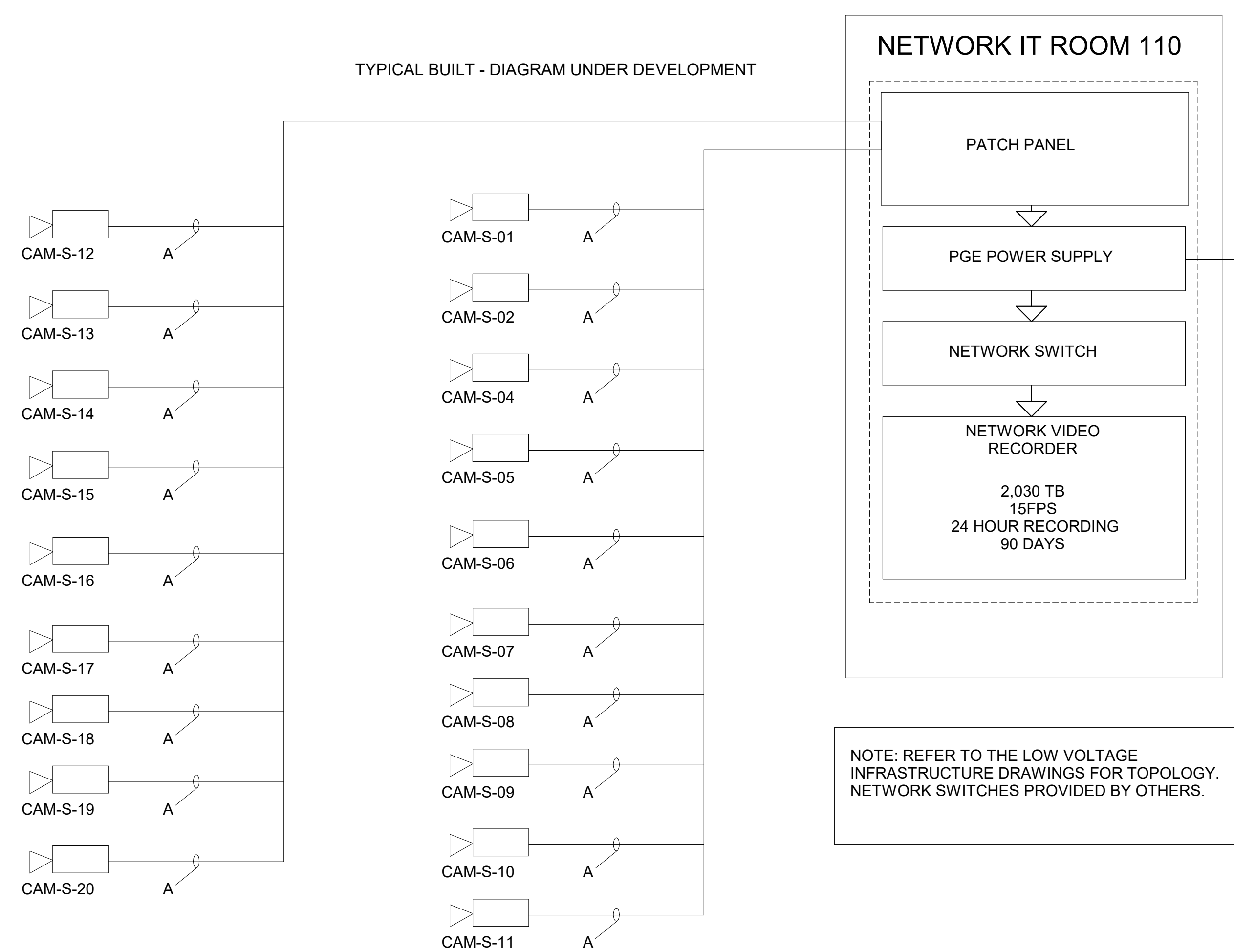
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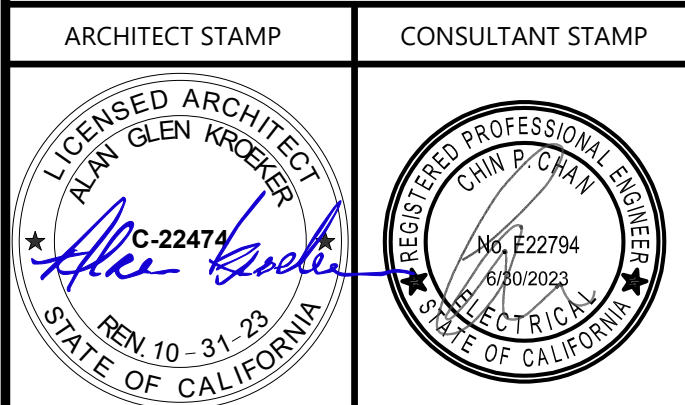
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DIAGRAM

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SE-702

DATE: APRIL 11, 2023

ABBREVIATIONS	
ABBREV	DESCRIPTION
A, AMPS	AMPERES
ABREV.	ABBREVIATION
AC	AIR CONDITIONER
AC	ALTERNATE CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	ABOVE CEILING GRID
AIC	AMPERE INTERRUPTION CURRENT
ALUM	ALUMINUM
APP	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BDC	BUILDING DISTRIBUTION CLOSET
BKBD	BACKBOARD
BKR	BREAKER
BLDS	BUILDING
C	CONDUIT
CAT.	CATALOG
CAT3	CATEGORY 3 COPPER CABLE
CAT5E	CATEGORY 5E COPPER CABLE
CAT6	CATEGORY 6A COPPER CABLE
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CF	CAP FOR FUTURE
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CO	CONDUIT ONLY
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECT, CONNECTION
CONTR	CONTRACTOR
CTE	CONNECT TO EXISTING
CU	COPPER
DEPT	DEPARTMENT
DIA	DIAMETER
DM	DIMENSION
DISC	DISCONNECT (SWITCH)
DIST	DISTRIBUTION
DN	DOWN
DO	DUCT ONLY WITH #12 TW COPPER PULL ROPE OR 3/16" DIAMETER NYLON PULL ROPE.
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELECT.	ELECTRICAL
ELEV	ELEVATION
R	END-OF-LINE RESISTOR
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRICAL PANEL BOARD
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
EVP	EMERGENCY WALL PHONE
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLR	FLOOR
FLUOR	FLUORESCENT
F O	FIBER OPTIC CABLE
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FRF	FIRE-PROOF
FRD	FIRE-RETARDANT
FT	FOOT OR FEET
FUT, (F)	FUTURE
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRND	GROUND
GYP	GYPSONIUM
HGT	HEIGHT
HOR	HORIZONTAL
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IDC	INTERMEDIATE DISTRIBUTION CENTER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
INCAND	INCANDESCENT
INT	INTERIOR
ISC	INTERRUPTING SHORT CIRCUIT
JB	JUNCTION BOX
KCHL	KILO CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES

ABBREVIATIONS	
ABBREV	DESCRIPTION
KWH	KILOWATT-HOURS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LTS	LIGHTS
MA	MILLIAMPS
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MNF	MULTI-MODE FIBER-OPTIC CABLE
MPCE	MINIMUM POINT OF ENTRY
MTD	MOUNTED
MTG. HT.	MOUNTING HEIGHT
MTL	METAL
MSB	MAIN SWITCHBOARD
MSG	MAIN SWITCH GEAR
(N)	NEW
NEUTRAL	NEUTRAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OSP	OUTSIDE PLANT
P	POLE
PA	PUBLIC ADDRESS
PDU	POWER DISTRIBUTION UNIT
PH, Ø	PHASE
PLY	PLYWOOD
PNL	PANEL
POC	POINT OF CONNECTION
(R)	RELOCATE
REC	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RM	ROOM
RMS	ROOM MEAN SQUARE
RO	ROUGH OPENING
SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SLV	SLEEVE - FOR CABLE
SMF	SINGLE MODE FIBER-OPTIC CABLE
SPEC	SPECIFICATIONS
SPKR	SPEAKER
SURF	SURFACE
SUSP	SUSPENDED
STD	STANDARD
STOR	STORAGE
STRUC	STRUCTURAL
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
(T)	TEMPORARY
T, TEL	TELEPHONE
TELE	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TERM	TERMINATION
TMSB	TELECOMMUNICATIONS MAIN GROUND BUSBAR
TGB	TELECOMMUNICATIONS GROUND BUSBAR
THRU	THROUGH
TRANS	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UNON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT-AMPERES
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWF	VOICE WALL FRAME
W	WALL PHONE
W	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET
WAP	WIRELESS ACCESS POINT
WP	WATERPROOF
WM	WIRE MANAGER

LEGEND	
SYMBOL	DESCRIPTION
	2-PORT WAO, MOUNTED AT 460MM (18") AFF. UON
	2-PORT FLOOR BOX, FLOOR MOUNTED
	2-PORT CONFERENCE FLOOR BOX AV, FLOOR MOUNTED
	2-PORT WAO AV
	2-PORT ACCESS POINT, MOUNTED AT CEILING
	1-PORT ROOM SCHEDULER OUTLET, MOUNTED AT CEILING

GENERAL NOTES	
1.	ALL WORK SHALL COMPLY WITH ISOIEC 11801-1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARD 11801-4, 14763-1, 30129 AND WITH THE CAL POLY CAMPUS STANDARD DETAILS AND CAMPUS STANDARD SPECIFICATIONS.
2.	ALL INSTALLATIONS SHALL COMPLY WITH ANSI ISOIEC 11801-1, 11801-6 AND 14763-1 AND ALL APPLICABLE LOCAL CODES.
3.	REFER TO ELECTRICAL PLANS FOR CONDUIT/CABLE TRAY PATHWAYS.
4.	REFER TO COMMUNICATION PLAN FOR TYPICAL OUTLET CONFIGURATION (UNLESS NOTED OTHERWISE).
5.	ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
6.	IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
7.	ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
8.	CONTRACTOR SHALL COMPLY WITH THE STATE HANDICAP LAWS WITH REGARD TO THE FOLLOWING MOUNTING HEIGHTS FOR COMMUNICATIONS OUTLETS: NO OUTLET SHALL BE MOUNTED ON A WALL AT LESS THAN 381mm AFF OR MORE THAN 1219mm AFF.
9.	THE OWNER AND/OR OWNER REPRESENTATIVE IS TO BE NOTIFIED OF ANY CHANGE TO DRAWINGS OR SPECIFICATIONS IN WRITING CAUSED BY FIELD CONDITION CONFLICTS.
10.	ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT BE LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLEEVES, SLOTS OR CABLE.
11.	ANY DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS ARE TO BE APPROVED BY OWNER IN WRITING PRIOR TO CHANGING ANY DEVIATION DONE WITHOUT WRITTEN APPROVAL IS DONE AT THE RISK AND COST OF CONTRACTOR.
12.	COORDINATION ITEMS:
A.	COORDINATE LOCATION OF ALL CONDUITS, SLEEVES, AND CABLE TRAY BEING USED FOR STRUCTURED CABLING SYSTEM.
13.	ALL FIBER OPTIC CABLE AND CATEGORY 6 CABLE SHALL BE PLENUM RATED.

RESPONSIBILITY MATRIX					
ITEM	GC	EC	LVC	AVC	OFI
INFRASTRUCTURE					
BUILDING BASKET TRAY, BACK BOXES, SLEEVES, CONDUITS, PLASTIC BUSHINGS AND PULL STRINGS	Y	X	Y		
FLOOR BOXES AND POKE THRU'S	Y	X	Y		
MDF / IDF CABLE TERMINATION HARDWARE			X		
MDF / IDF CABLE MANAGEMENT HARDWARE			X		
HORIZONTAL STATION CABLING			X		
MDF / IDF ROOM CABLE RUNWAY			X		
MDF / IDF ROOM ROOM POWER	Y	X	Y		
WIRELESS ACCESS POINT MOUNTING SUPPORTS	Y	X			
J-HOOKS / NON-CONTINUOUS PATHWAY	Y	X			
MDF / IDF IT EQUIPMENT:					
UPS / BATTERY		Y	X		
POWER DISTRIBUTION UNIT (PDU)			X		
NETWORK EQUIPMENT					X
PATCHING IN MDF BASED ON OWNER PATCH MATRIX. WORKSTATION IS OFI			X		
OFFICE SPACE EQUIPMENT:					
WIRELESS ACCESS POINT DEVICE					X
ROOM SCHEDULER DEVICE				X	
GENERAL NOTES:					
GC = GENERAL CONTRACTOR					
EC = ELECTRICAL CONTRACTOR					
LVC = LOW VOLTAGE CONTRACTOR					
AVC = AUDIO VISUAL CONTRACTOR					
OFI = OWNER FURNISHED / CONTRACTOR INSTALLED					
X = FURNISH AND INSTALL					
Y = COORDINATE WITH					

TECHNOLOGY - SHEET LIST	
Sheet Number	Sheet Name
T-001	TECHNOLOGY LEGENDS
T-100	TECHNOLOGY SITE PLAN
T-111	LEVEL 01 - TECHNOLOGY OVERALL PLAN
T-112	LEVEL 02 - TECHNOLOGY OVERALL PLAN
T-121	LEVEL 01 - TECHNOLOGY PATHWAY PLAN
T-122	LEVEL 02 - TECHNOLOGY PATHWAY PLAN
T-131	LEVEL 01 - TECHNOLOGY WAO PLAN
T-132	LEVEL 02 - TECHNOLOGY WAO PLAN
T-133	ROOF - TECHNOLOGY WAO PLAN
T-141	LEVEL 01 - TECHNOLOGY WAO CEILING PLAN
T-142	LEVEL 02 - TECHNOLOGY WAO CEILING PLAN
T-401	LEVEL 01 - TECHNOLOGY ENLARGED PLANS
T-402	LEVEL 02 - TECHNOLOGY ENLARGED PLANS
T-501	TECHNOLOGY DETAILS
T-502	TECHNOLOGY DETAILS
T-503	TECHNOLOGY DETAILS
T-504	TECHNOLOGY DETAILS
T-701	TECHNOLOGY RISER DIAGRAM

AGENCY APPROVAL **CSU** 03-122864

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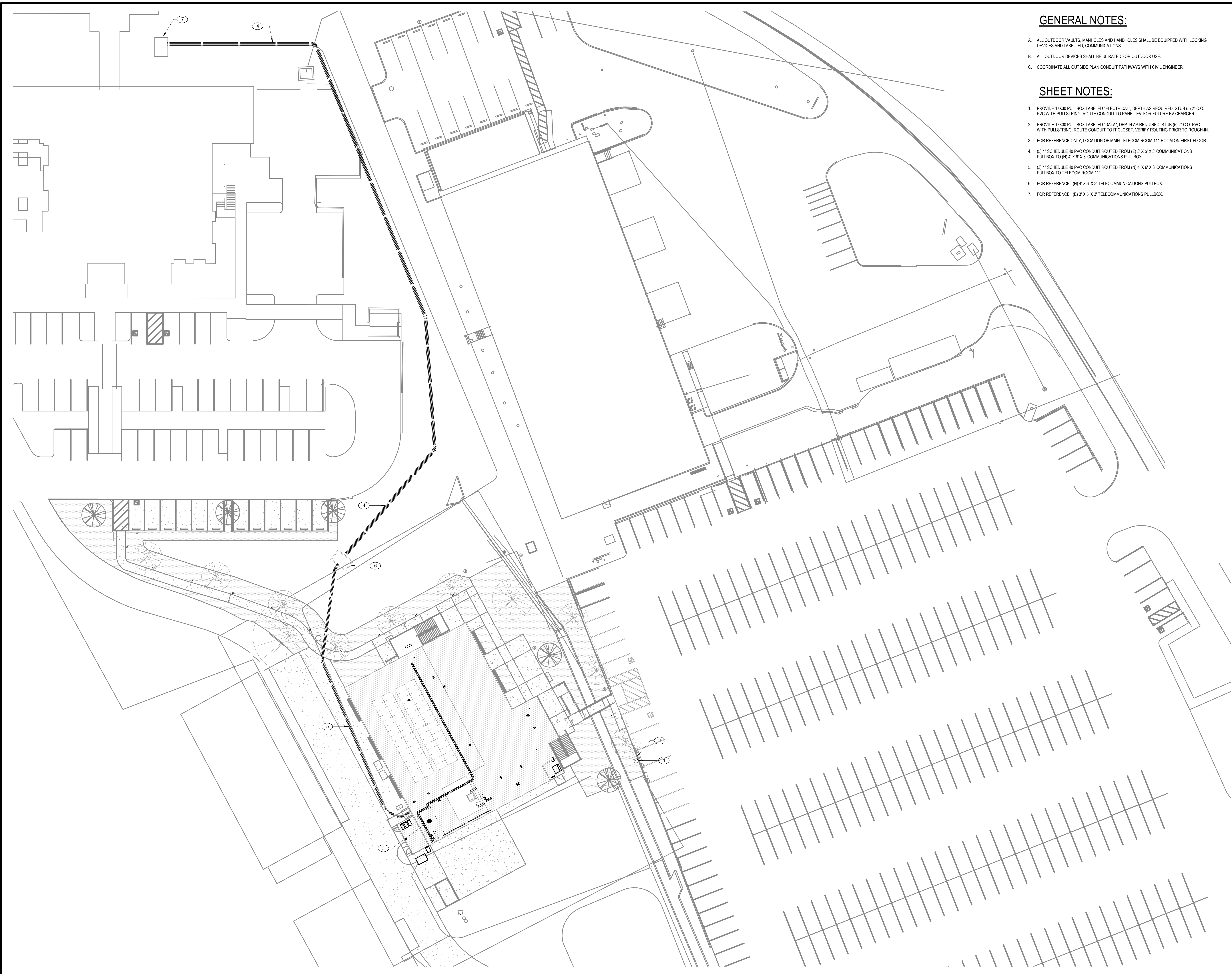
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GENERAL NOTES:

- A. ALL OUTDOOR VAULTS, MANHOLES AND HANDHOLES SHALL BE EQUIPPED WITH LOCKING DEVICES AND LABELLED, COMMUNICATIONS.
- B. ALL OUTDOOR DEVICES SHALL BE UL RATED FOR OUTDOOR USE.
- C. COORDINATE ALL OUTSIDE PLAN CONDUIT PATHWAYS WITH CIVIL ENGINEER.

SHEET NOTES:

- 1. PROVIDE 17X30 PULLBOX LABELED "ELECTRICAL" DEPTH AS REQUIRED. STUB (5) 2" C.O. PVC WITH PULLSTRING. ROUTE CONDUIT TO PANEL "EV" FOR FUTURE EV CHARGER.
- 2. PROVIDE 17X30 PULLBOX LABELED "DATA" DEPTH AS REQUIRED. STUB (5) 2" C.O. PVC WITH PULLSTRING. ROUTE CONDUIT TO IT CLOSET. VERIFY ROUTING PRIOR TO ROUGH-IN.
- 3. FOR REFERENCE ONLY. LOCATION OF MAIN TELECOM ROOM 111 ROOM ON FIRST FLOOR.
- 4. (5) 4" SCHEDULE 40 PVC CONDUIT ROUTED FROM (E) 3' X 5' X 3' COMMUNICATIONS PULLBOX TO (N) 4' X 6' X 3' COMMUNICATIONS PULLBOX.
- 5. (3) 4" SCHEDULE 40 PVC CONDUIT ROUTED FROM (N) 4' X 6' X 3' COMMUNICATIONS PULLBOX TO TELECOM ROOM 111.
- 6. FOR REFERENCE. (N) 4' X 6' X 3' TELECOMMUNICATIONS PULLBOX.
- 7. FOR REFERENCE. (E) 3' X 5' X 3' TELECOMMUNICATIONS PULLBOX.

AGENCY APPROVAL **DS&E** 03-122884

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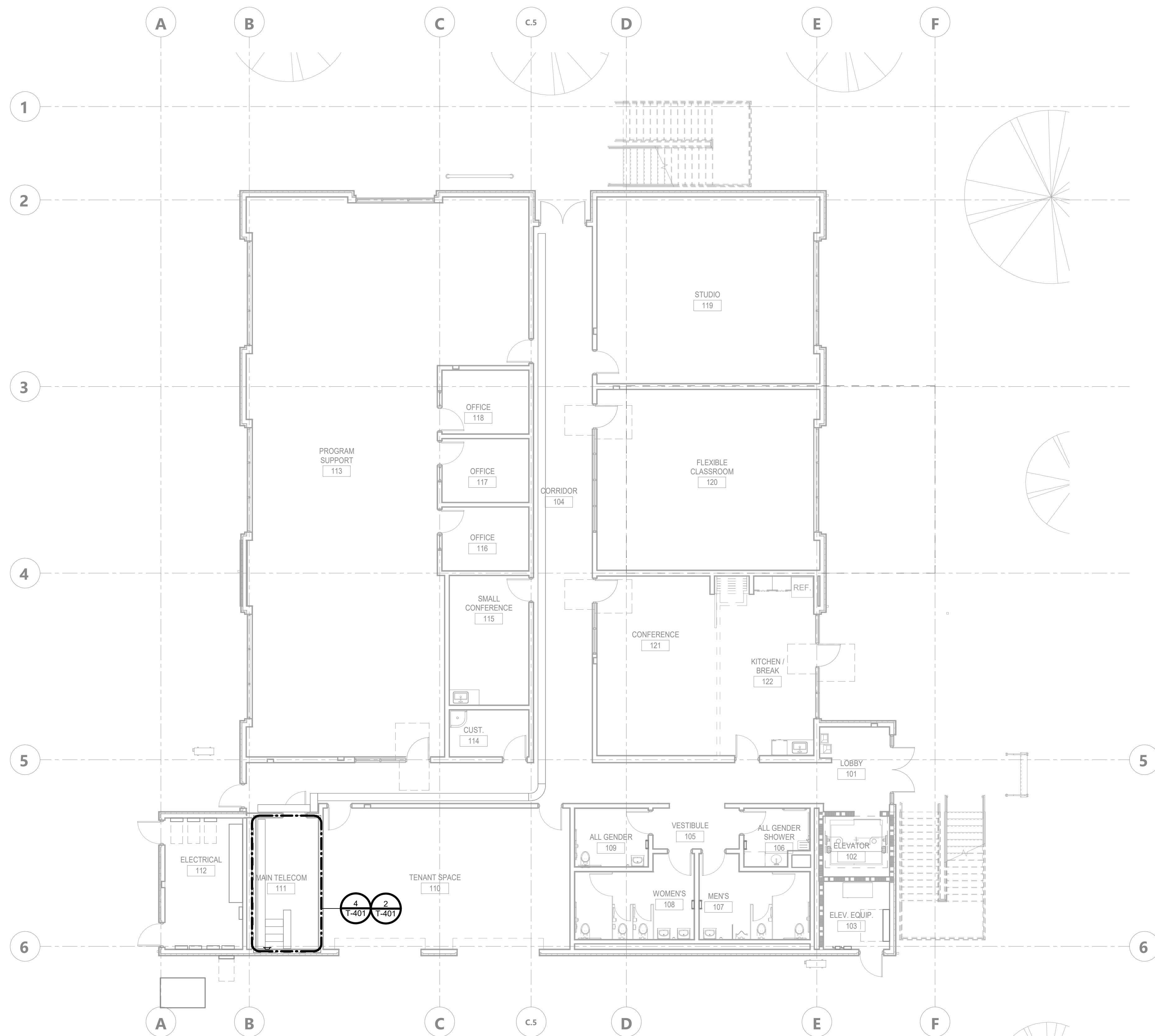
SHEET TITLE
TECHNOLOGY SITE PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

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T-100

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GENERAL NOTES:

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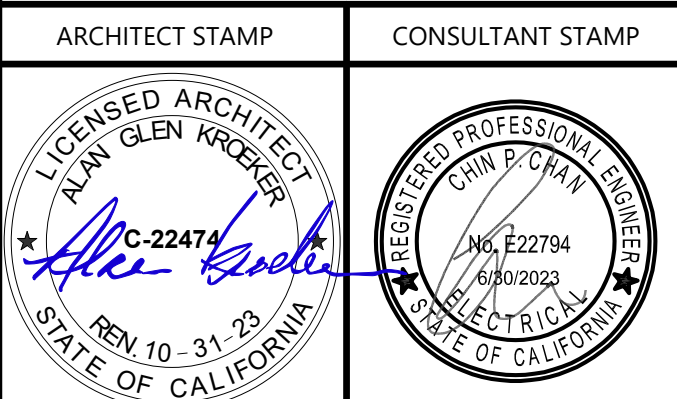
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SHEET TITLE
LEVEL 01 -
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DRAWN BY: Author JOB NUMBER: 21179.01

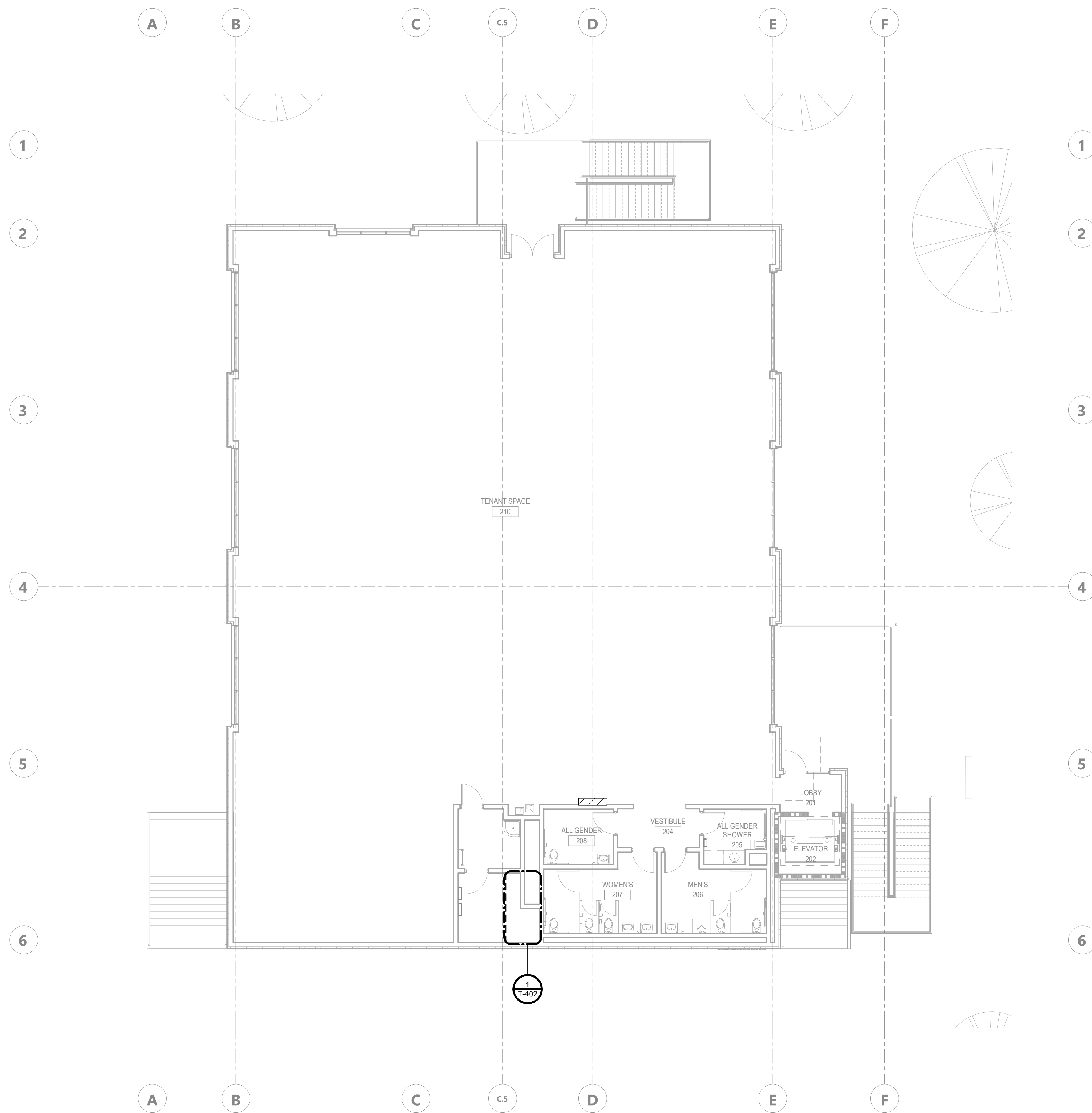
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T-111

DATE: APRIL 11, 2023



CONSTRUCTION DOCUMENTS

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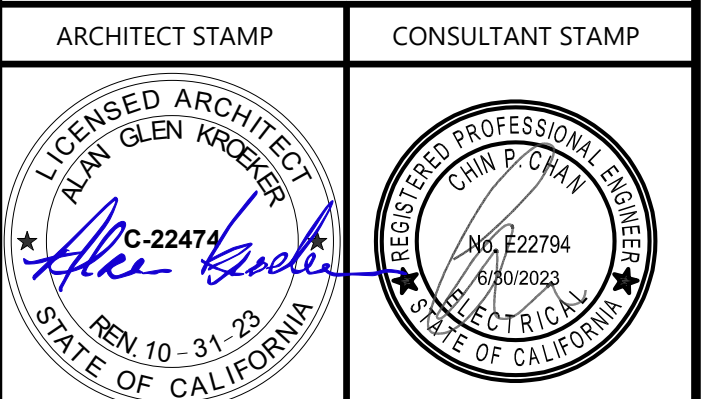
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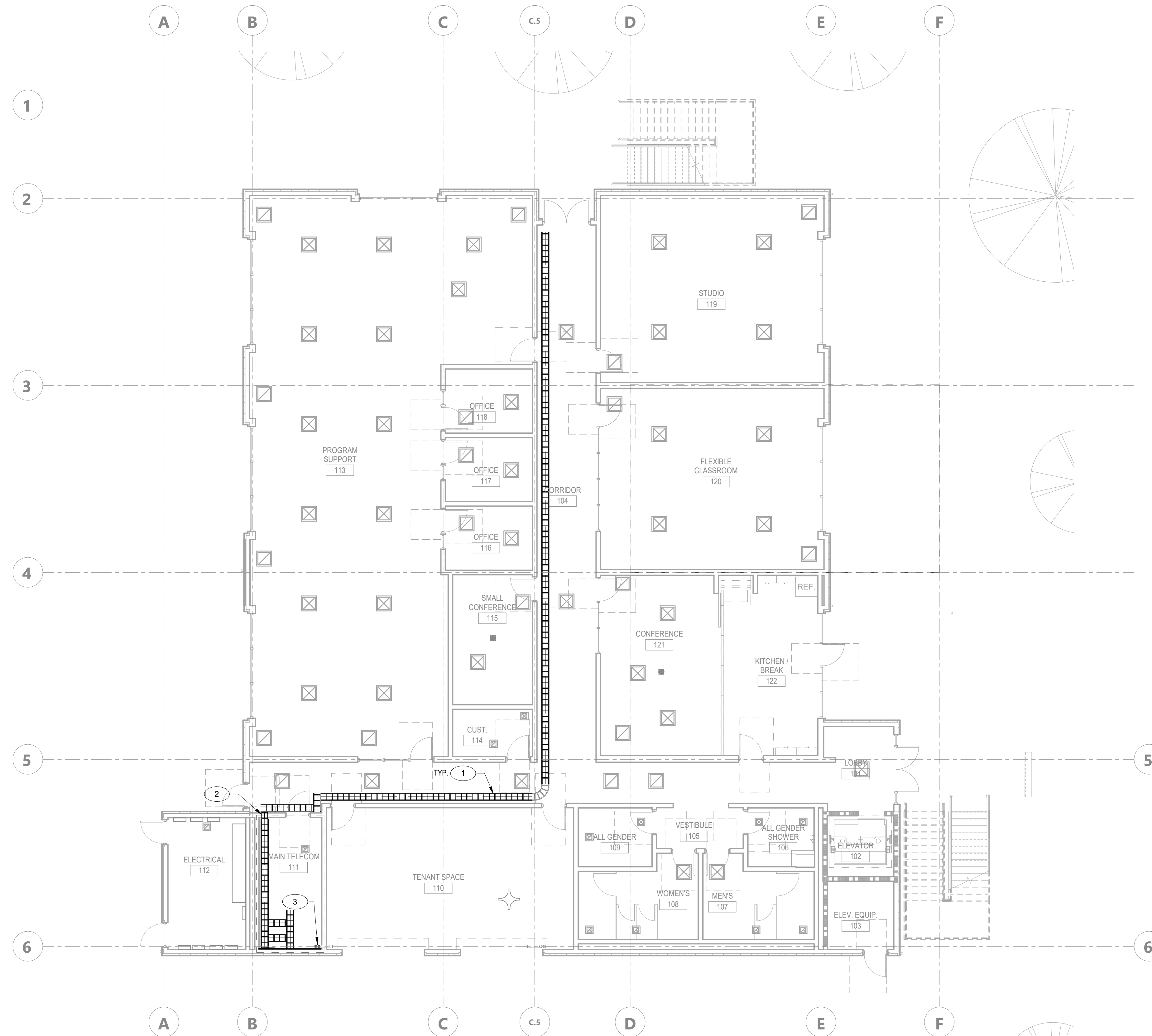
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T-112

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CONSTRUCTION DOCUMENTS

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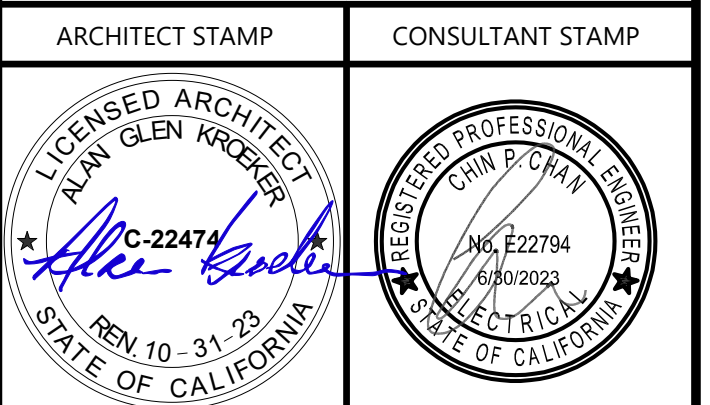
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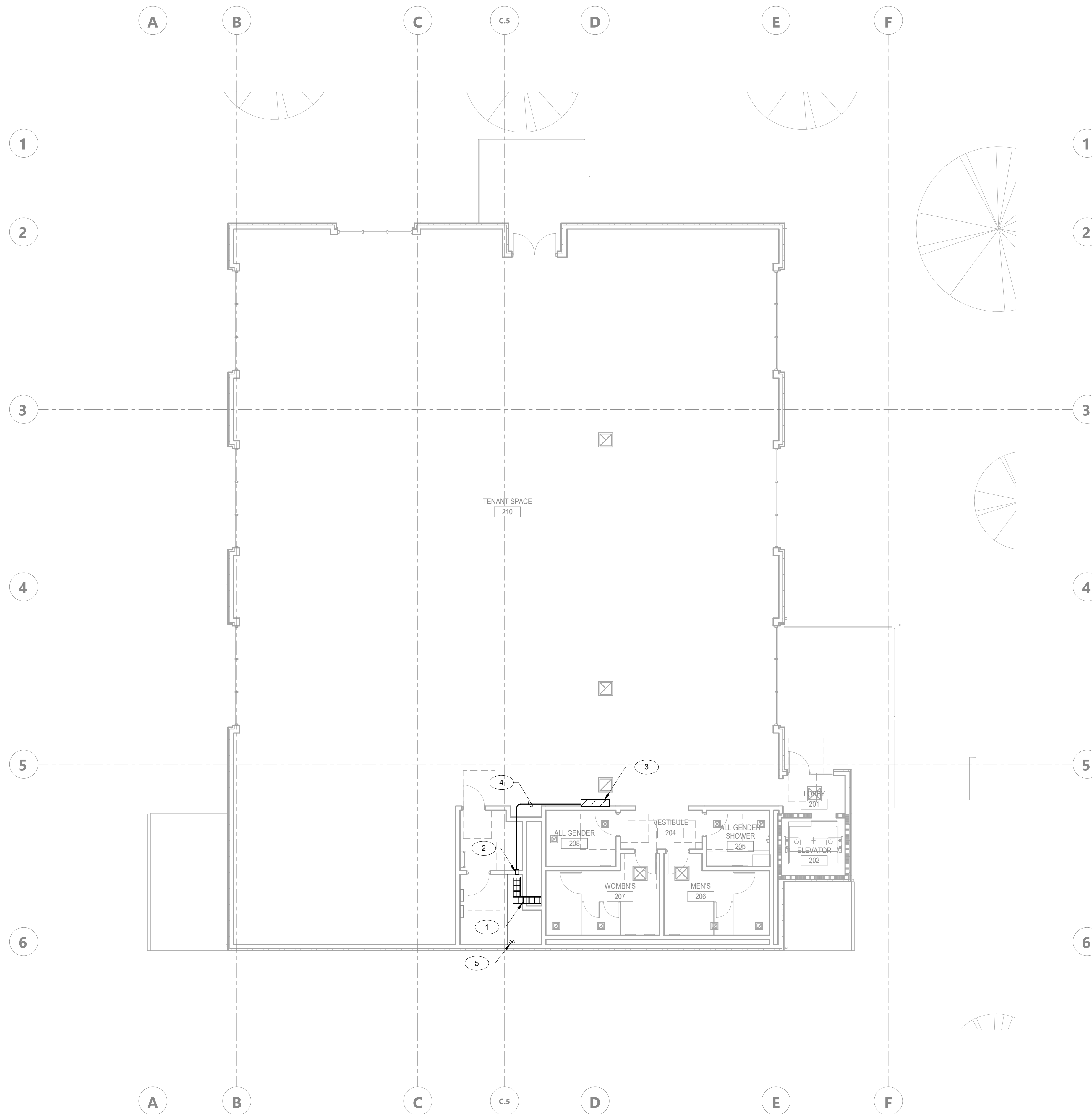
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T-121

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CONSTRUCTION DOCUMENTS

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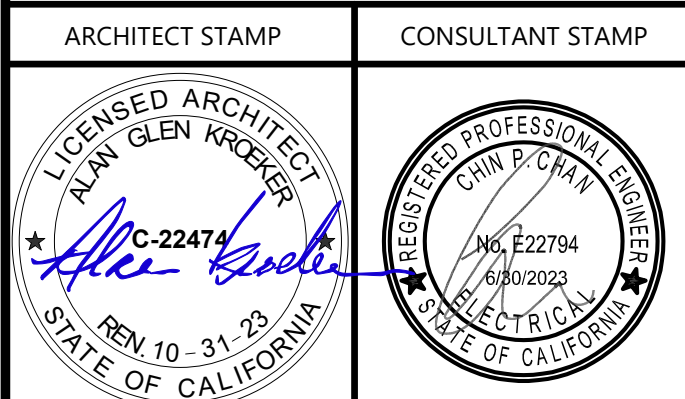
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2. (1) 4" CONDUIT SLEEVES FOR HORIZONTAL CABLING. FIRE STOP PER CODE.
3. EM-MON D-MON ENCLOSURE.
4. J-HOOK PATHWAY FROM IT ROOM TO EM-MON D-MON ENCLOSURE.
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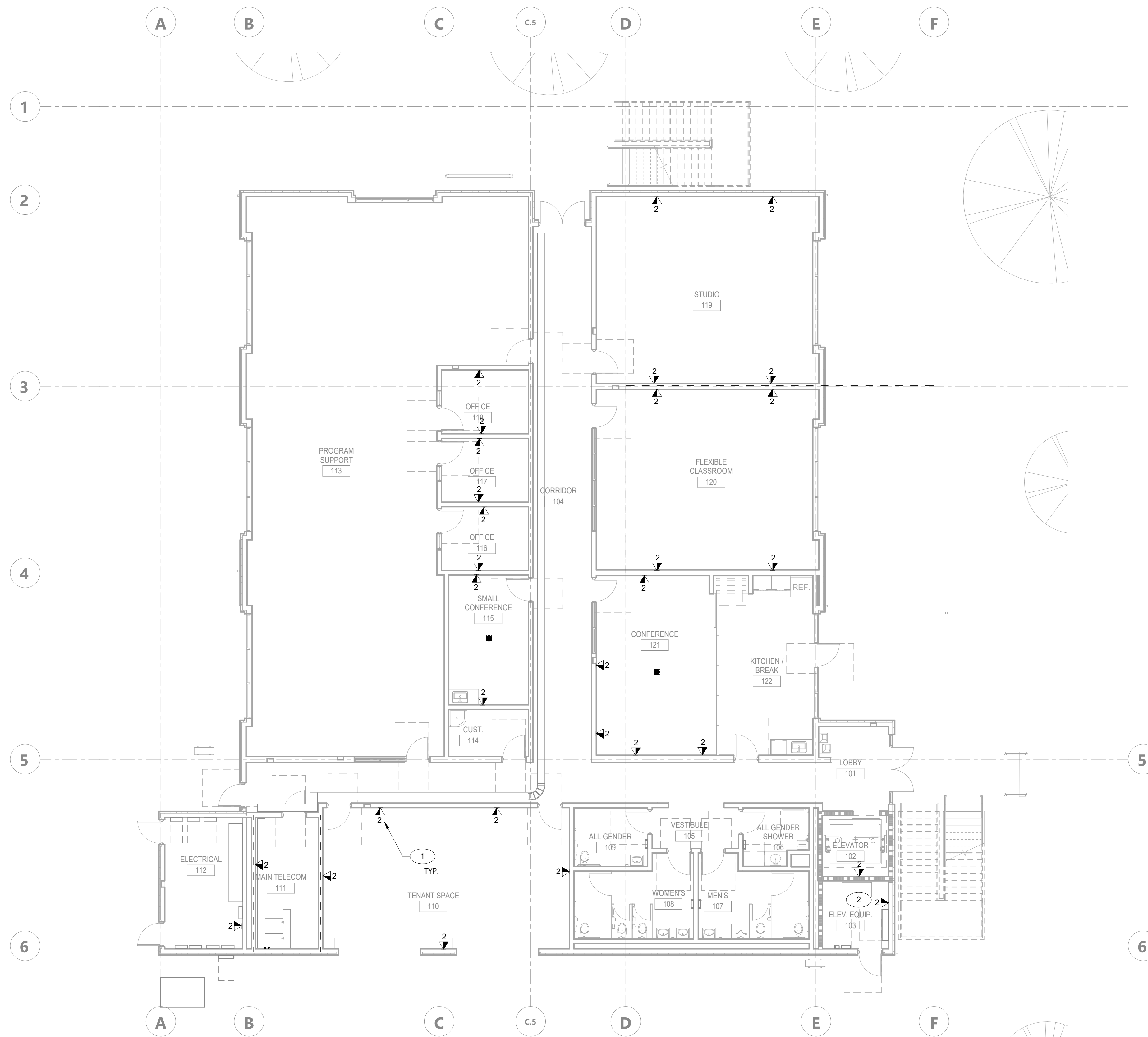
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CONSTRUCTION DOCUMENTS

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2. COORDINATE LOCATION WITH EQUIPMENT CABINET HOUSING TRAVEL CABLE FOR EMERGENCY PHONE. DATA DROP TO BE HOUSED IN A SEPARATE 2 GANG ELECTRICAL BOX NEARBY AND PIPED INTO THE EQUIPMENT CABINET WITH 3/4" EMT STUB.

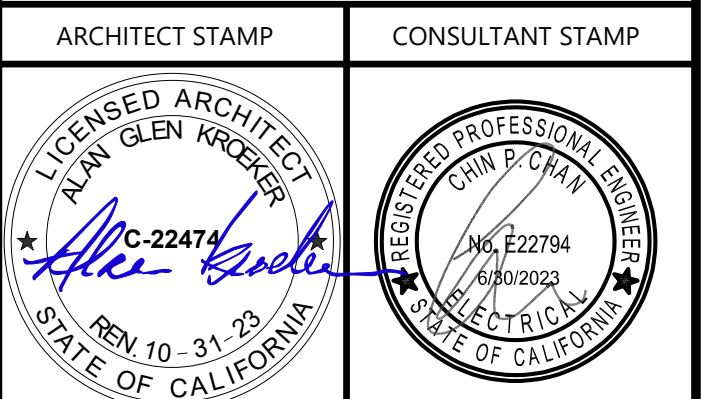
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DRAWN BY: Author JOB NUMBER: 21179.01

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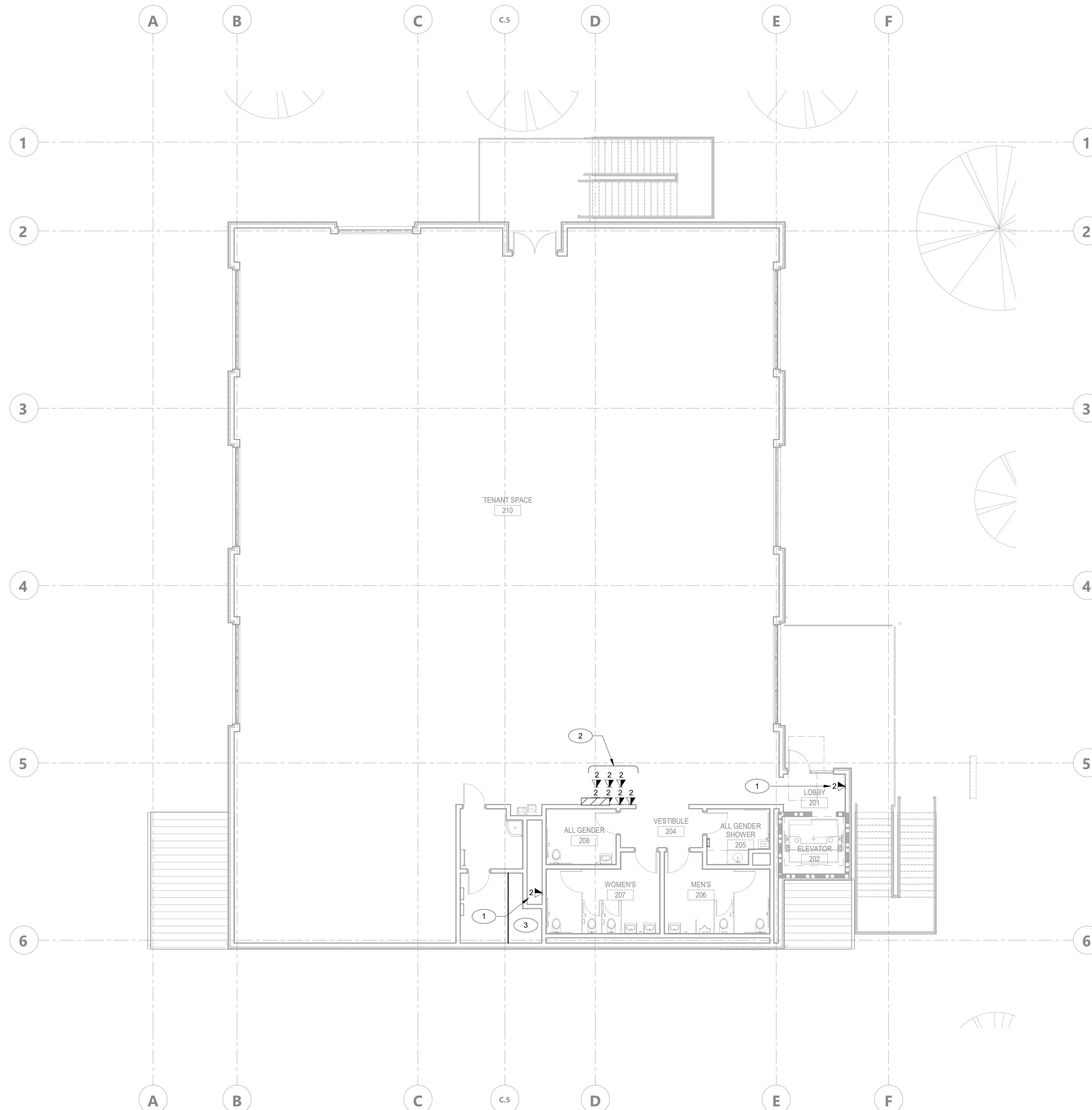
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4. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES.
5. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENT SHALL GOVERN BUT THE CONTRACT DOCUMENT SHALL NOT BE INTERPRETED TO VIOLATE ANY CODE OR REGULATION.
6. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND / OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
8. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLOTS OR CABLES.

SHEET NOTES:

1. PROVIDE, INSTALL, TERMINATE AND TEST (2) PLENUM RATED CATEGORY 6 CABLES TO WALL LOCATION. THE CATEGORY 6 CABLES SHALL BE INSTALLED FROM MAIN TELECOM ROOM 111.
2. PROVIDE, INSTALL, TERMINATE AND TEST (7) 2-PORT, PLENUM RATED CATEGORY 6 CABLES TO E-MON-D-MON ENCLOSURE LOCATION. THE CATEGORY 6 CABLES SHALL BE INSTALLED FROM LEVEL 02 IT ROOM.
3. FOR REFERENCE, PROPOSED LEVEL 02 IT ROOM LOCATION.

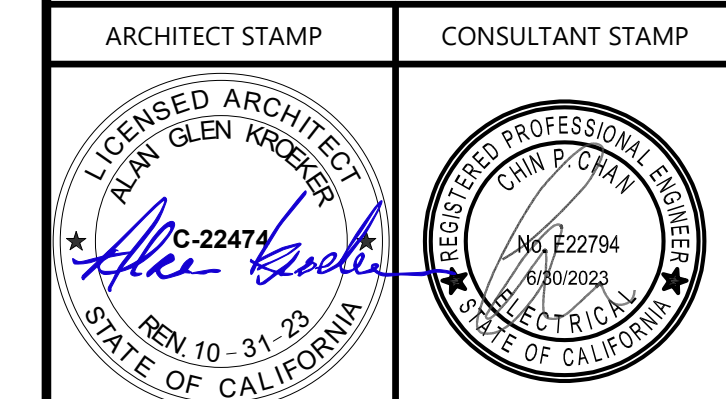
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CAL POLY TECH
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Mount Bishop Road
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SHEET TITLE
LEVEL 02 -
TECHNOLOGY WAO
PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

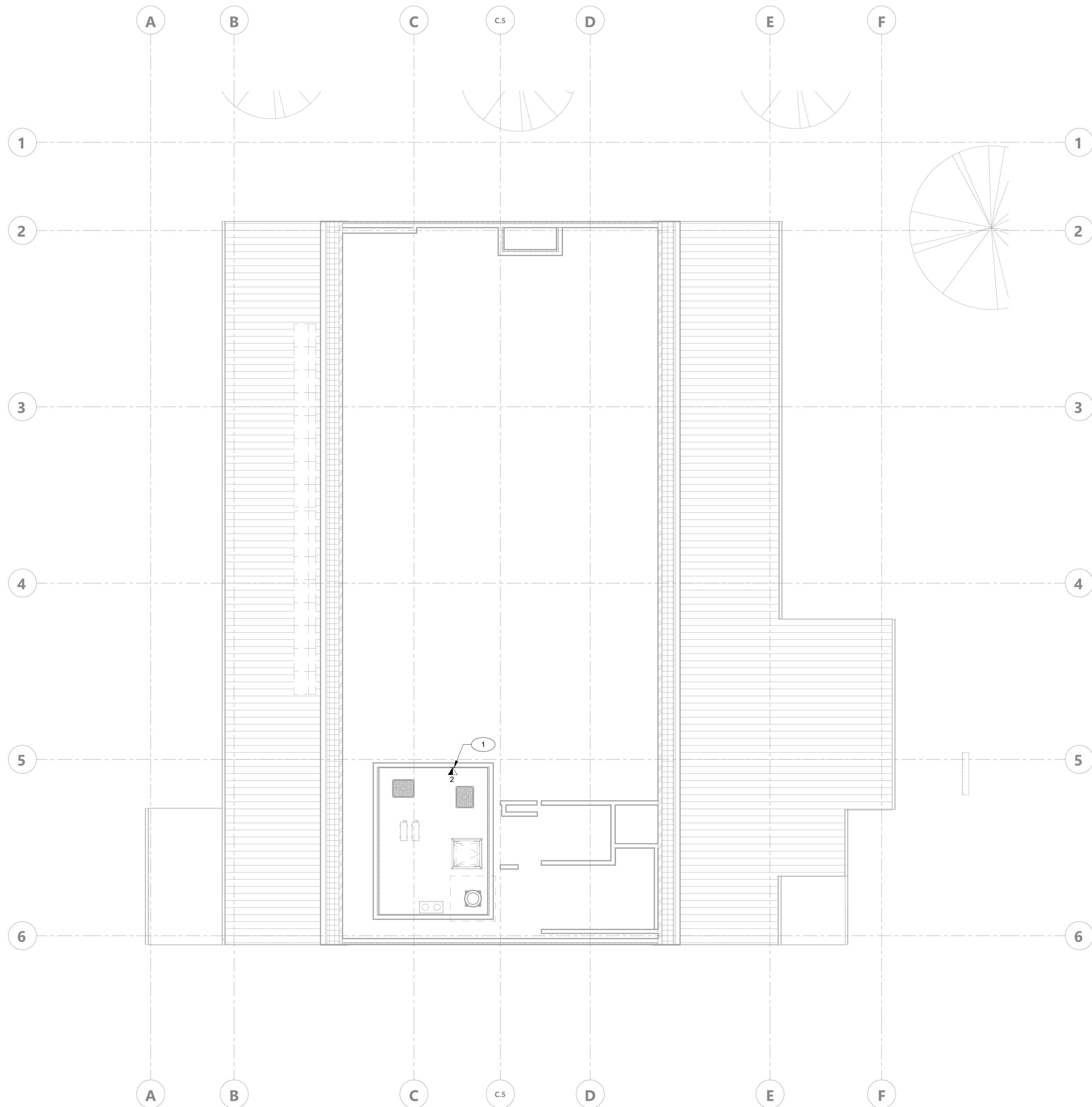
SHEET NO.

T-132

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/14/2023 2:45:26 PM FILE LOCATION: Autodesk Docs://Cal Poly Design Build Tech Phase 2/222423 MEP_Cal_Poly_R22.rvt



GENERAL NOTES:

1. WALL PENETRATIONS / WAO BACK BOXES / SLEEVES / CONDUITS / PULL BOXES / BASKET TRAYS AND GROUNDING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON BOTH ENDS OF ALL CONDUITS AND SLEEVES.
2. ALL IN-WALL WORK AREA OUTLET (WAO) LOCATIONS REQUIRE SINGLE GANG BOXES WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON OPEN END OF CONDUIT.
3. ALL WORKS SHALL COMPLY WITH ANSI / TIA / EIA-568-C.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARDS AND 569.606 AND 607 AND ALL APPLICABLE CODES.
4. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES.
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SHEET NOTES:

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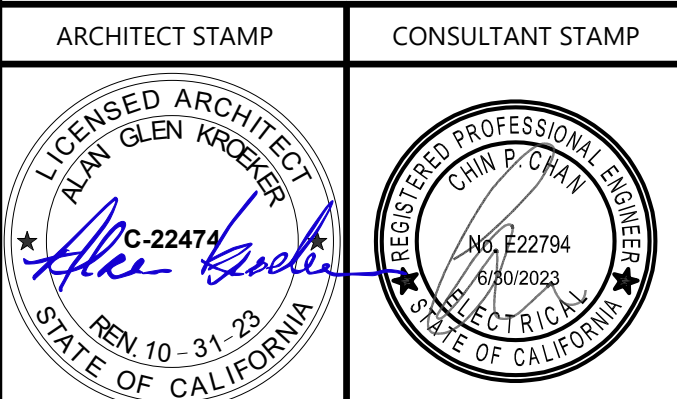
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SHEET TITLE
ROOF - TECHNOLOGY WAO PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

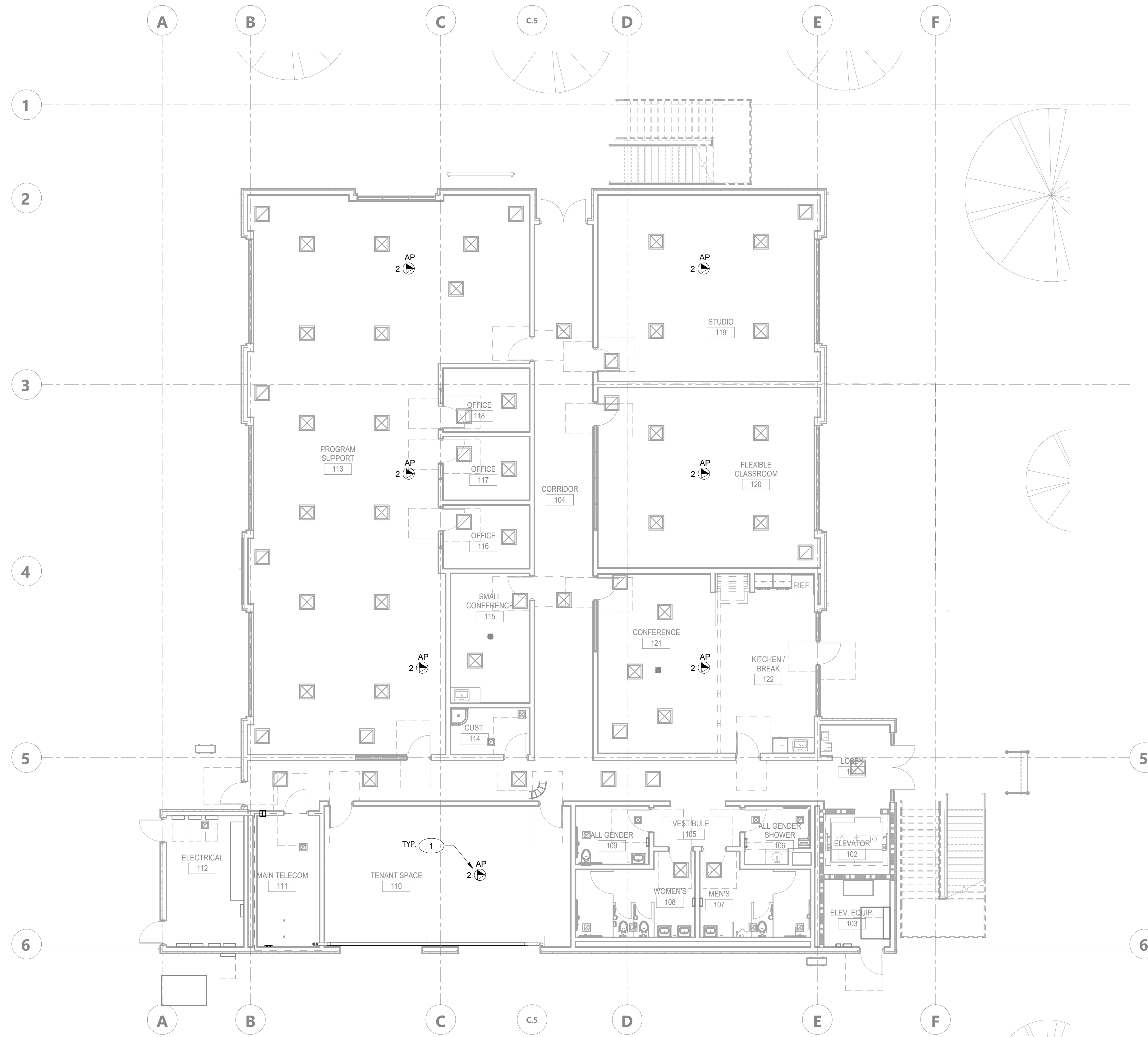
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T-133

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

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GENERAL NOTES:

- A. WALL PENETRATIONS / SLEEVES / CONDUITS / PULLBOXES / BASKET TRAYS AND GROUNDING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON BOTH ENDS OF ALL CONDUITS AND SLEEVES.
- B. ALL IN-CEILING WORK AREA OUTLETS (WAO) LOCATIONS REQUIRE SINGLE-GANG BACK BOXES WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHINGS ON OPEN END OF CONDUIT.
- C. ALL WORKS SHALL COMPLY WITH ANSI / TIA / EIA 568-C.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARDS AND 569.606 AND 607 AND ALL APPLICABLE CODES.
- D. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- E. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENT SHALL GOVERN BUT THE CONTRACT DOCUMENT SHALL NOT BE INTERPRETED TO VIOLATE ANY CODE OR REGULATION.
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- H. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLOTS OR CABLES.
- I. CEILING MOUNTED DEVICES TO BE CENTERED ON CEILING TILES.

SHEET NOTES:

- 1. PROVIDE, INSTALL, TERMINATE AND TEST (2) PLENUM RATED CATEGORY 6A CABLE AT EACH LOCATION FOR THE WIRELESS ACCESS POINT (WAO) FROM THE ID. THE CATEGORY 6A CABLES SHALL BE TERMINATED ON AN RJ45 JACK MODULE IN A SURFACE MOUNT BOX IN THE CEILING SPACE AT THE DEVICE LOCATION. NEATLY COIL (10') OF CATEGORY 6A CABLE AT THE DEVICE LOCATION.

AGENCY APPROVAL DSA# 03-122884



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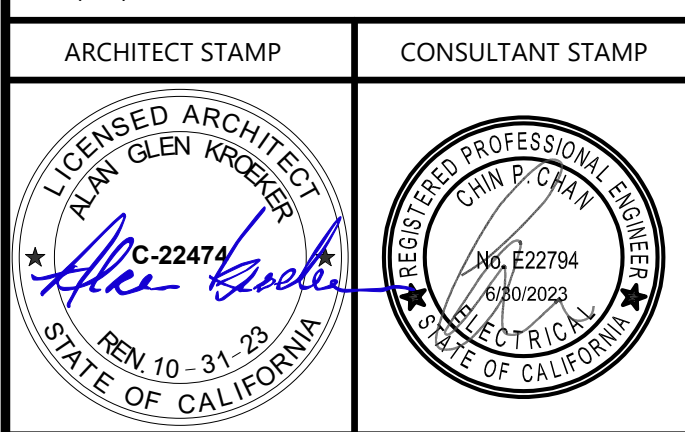
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SHEET TITLE
LEVEL 01 -
TECHNOLOGY WAO
CEILING PLAN

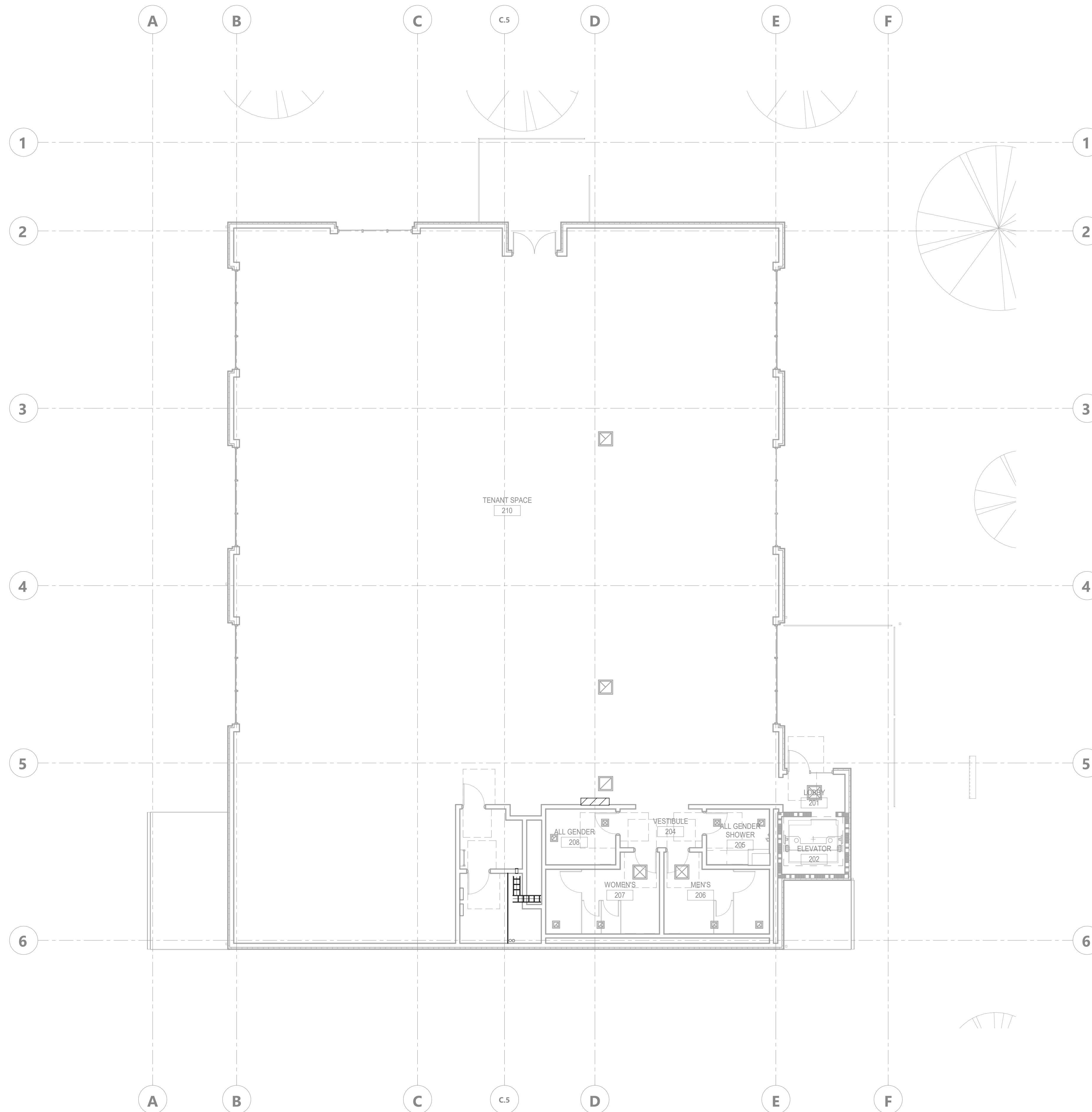
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T-141

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/14/2023 2:45:27 PM FILE LOCATION: Autodesk Docs:/Cal Poly Design Build Tech Phase 2/222423_MEP_Cal_Poly_R22.rvt



GENERAL NOTES:

1. INSTALL ALL WORK AREA OUTLETS WITHIN 200' OF SERVING MDF ROOM.
2. ALL WORKS SHALL COMPLY WITH ANSI/TIA/EIA 568-C.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARDS AND 569.606 AND 607 AND ALL APPLICABLE CODES.
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7. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED BY THE LOW VOLTAGE CONTRACTOR USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLOTS OR CABLES.
8. WALL PENETRATION / SLEEVES / CONDUITS / BASKET TRAY PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, PROVIDE BUSHING ON BOTH ENDS.
9. CONDUIT PATHWAYS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR IN OPEN CEILING SPACES. APPROPRIATELY SIZED CONDUITS TO BE INSTALLED FOR DATA CABLE ROUTING TO CONCEAL DATA CABLE BETWEEN WAO LOCATION AND THE BASKET TRAY.
10. LOW VOLTAGE CONTRACTOR TO PROVIDE AND INSTALL J-HOOKS BETWEEN BASKET TRAY OR PATHWAY AND WAO LOCATION IS NEEDED.

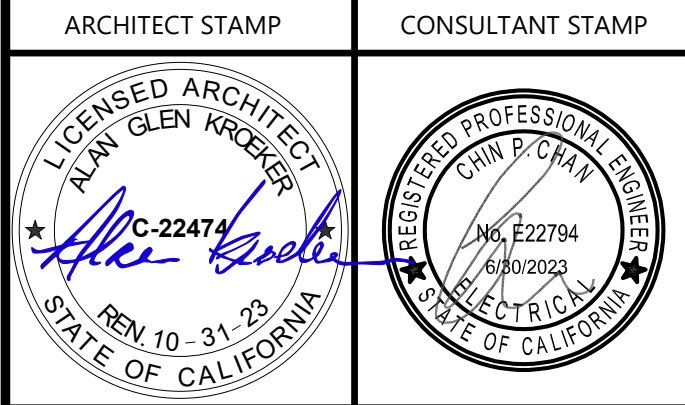
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SHEET TITLE
LEVEL 02 -
TECHNOLOGY WAO
CEILING PLAN

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
T-142

DATE: APRIL 11, 2023

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

A. ALL ITEMS ARE LOW VOLTAGE CONTRACTOR PROVIDED AND INSTALLED UNLESS OTHERWISE NOTED.

SHEET NOTES:

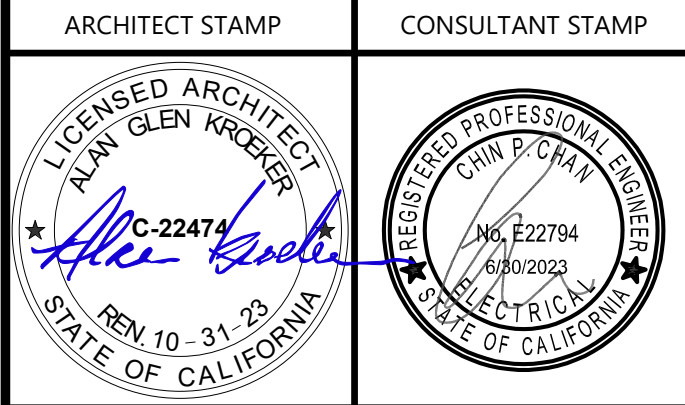
1. 19" W x 7" H 4SRU, 2 POST RACK, BLACK IN COLOR.
2. 12" WIDE HORIZONTAL LADDER RACK.
3. L6-30 DEDICATED 20A/120V CIRCUIT - TO BE INSTALLED BY ELECTRICAL CONTRACTOR. ONE OF THE L6-20 POWER OUTLET AT EACH RACK IS THE INPUT FOR THE RACK UPS. LOCATE L6-20 RACK POWER OUTLET IN ACCORDANCE WITH THE CODE.
4. (2) 4" CONDUITS, LOW VOLTAGE CONTRACTOR TO INSTALL, FIRE STOP PER CODE.
5. 6" X 7" VERTICAL WIRE MANAGER.
6. 3/4" FIRE RATED, A/C GRADE, VOID FREE PLYWOOD. GENERAL CONTRACTOR PROVIDED AND INSTALLED.
7. TELECOMMUNICATIONS GROUNDING BUSBAR (TMGB), MOUNT BUSBAR 6" BELOW CABLE RUNWAY. ELECTRICAL CONTRACTOR PROVIDED AND INSTALLED.
8. SPACE RESERVED FOR 48 STRAND OS2 SINGLE MODE FIBER.
9. SPACE RESERVED FOR 100P, CAT 3 OSP COPPER.
10. PROVIDE, INSTALL, TERMINATE AND TEST TO CURRENT TIA STANDARDS (2) CATEGORY 6 CABLES TO WALL LOCATION. THE CATEGORY 6 CABLES SHALL BE INSTALLED FROM MAIN TELECOM ROOM 111.



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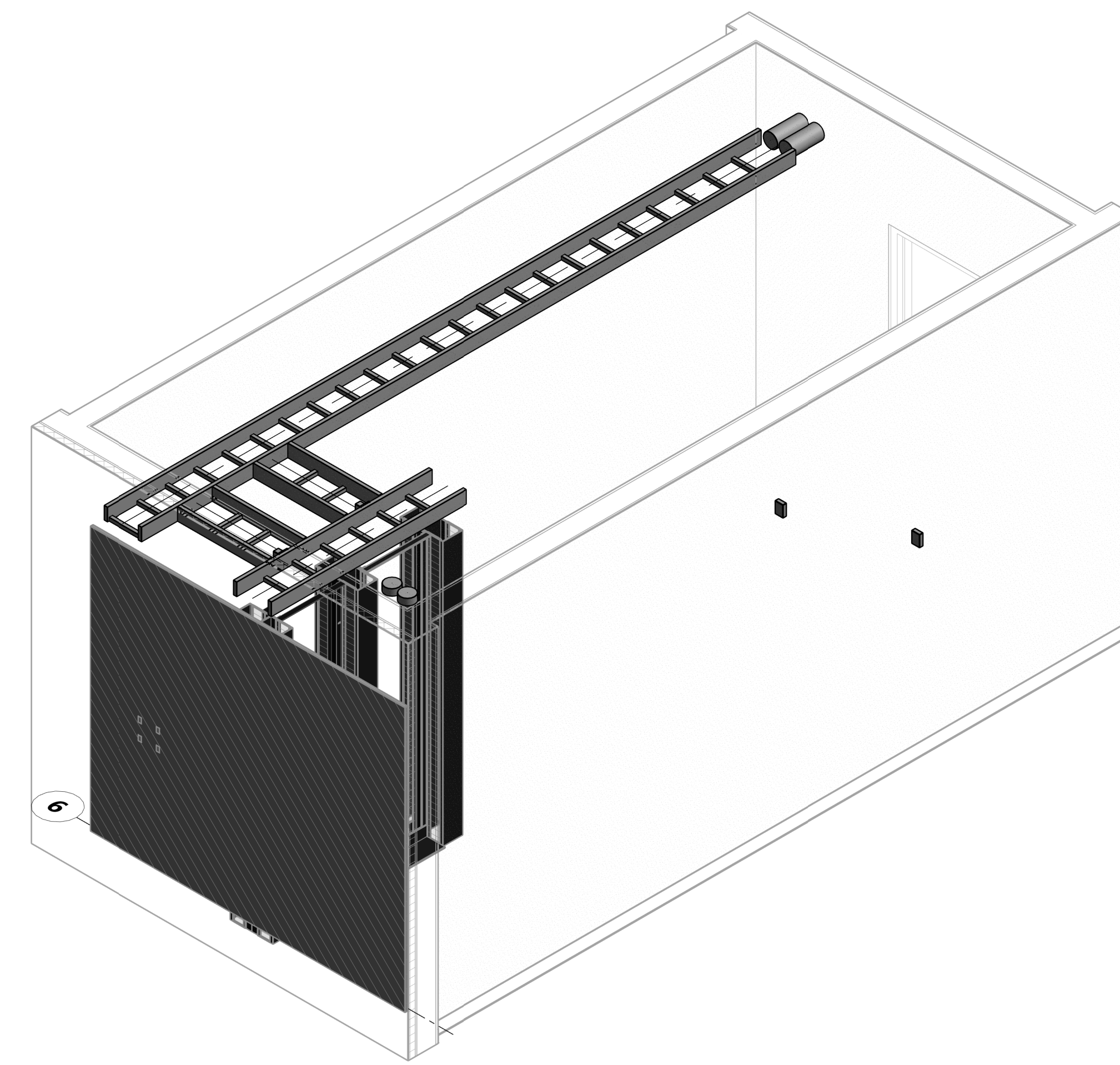
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SHEET TITLE
LEVEL 01- TECHNOLOGY ENLARGED PLANS

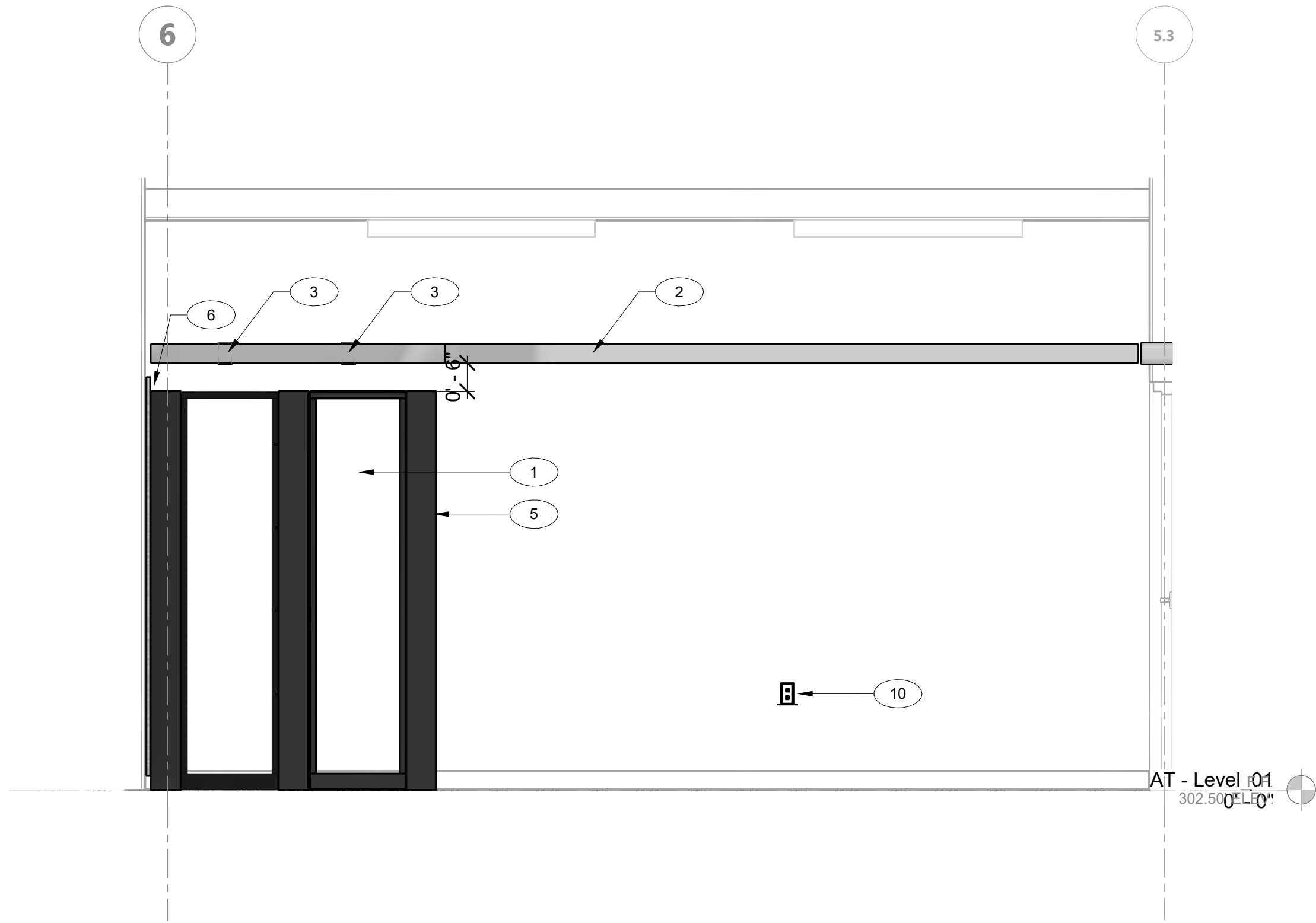
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SHEET NO.
T-401

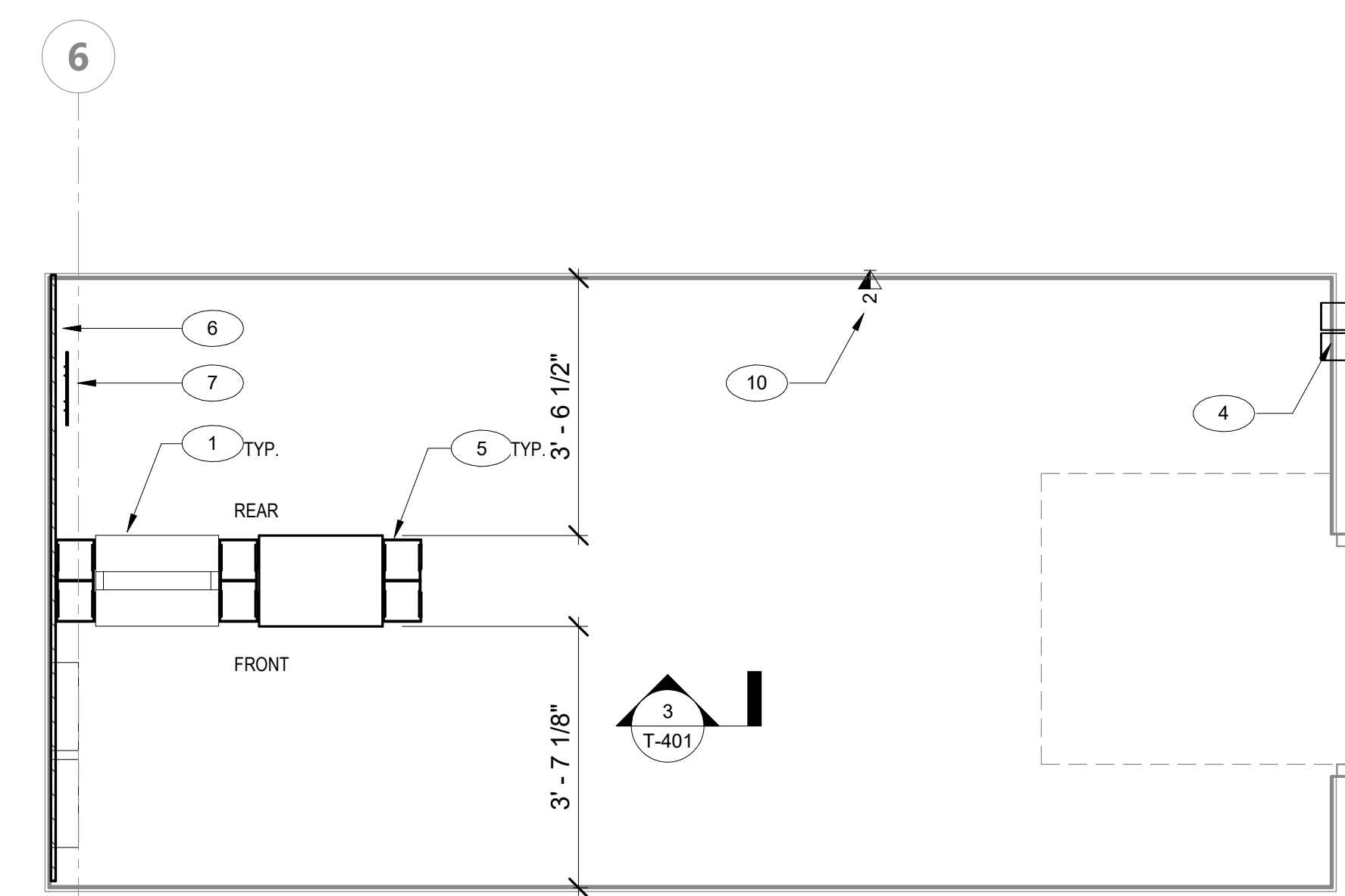
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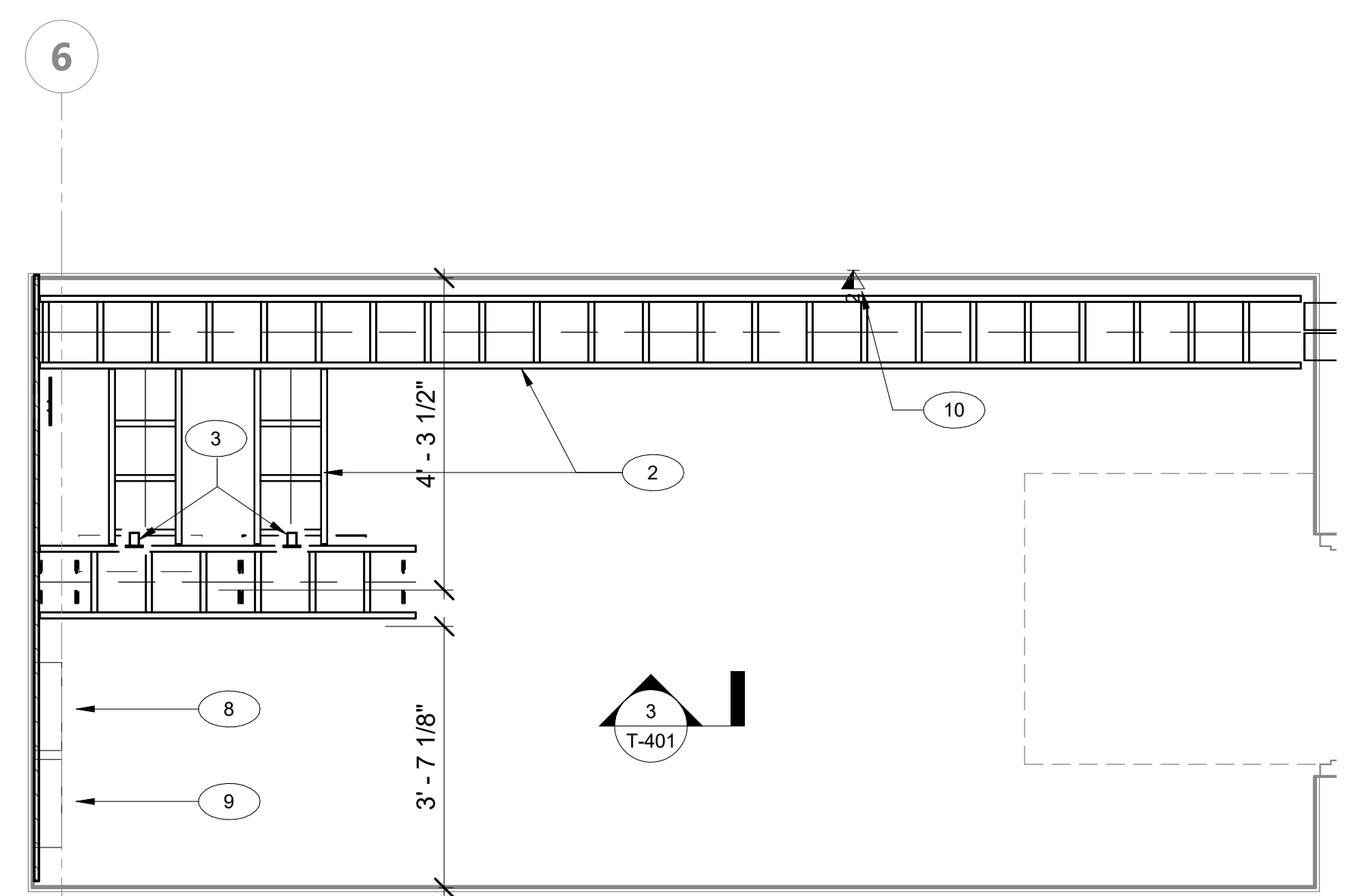
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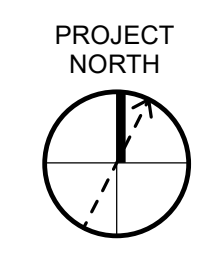
LEVEL 01 - MAIN TELECOM 111 - ELEVATION VIEW 3



LEVEL 01 - TECHNOLOGY ENLARGED PLAN - MAIN TELECOM 111 2



LEVEL 01 - TECHNOLOGY ENLARGED PLAN - MAIN TELECOM 111 - RCP 4

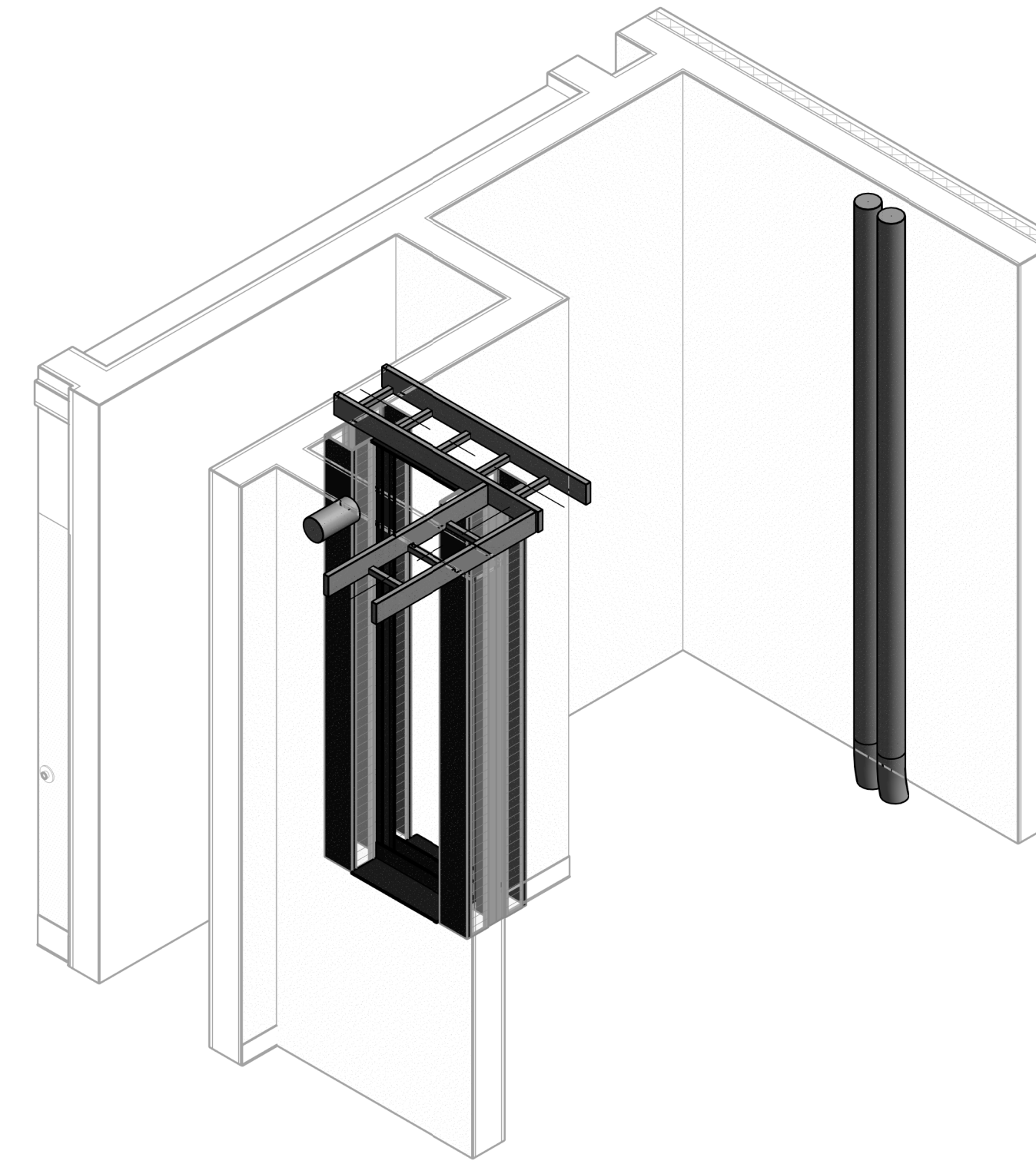


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2. ALL WORKS SHALL COMPLY WITH ANSI/TIA/EIA 568-C.1 COMMERCIAL BUILDING COMMUNICATIONS CABLING STANDARDS AND 569.606 AND 607 AND ALL APPLICABLE CODES.
3. ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES.
4. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENT SHALL GOVERN BUT THE CONTRACT DOCUMENT SHALL NOT BE INTERPRETED TO VIOLATE ANY CODE OR REGULATION.
5. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE, JOB OR THE HIGHER STANDARD SHALL PREVAIL.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
7. ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE STOPPED BY THE LOW VOLTAGE CONTRACTOR USING THE APPROPRIATE APPROVED (UL CLASSIFIED) FIRE STOPPING MATERIAL. THIS SHALL INCLUDE BUT NOT LIMITED TO WALL, FLOOR, CEILING PENETRATIONS AND CONDUITS, SLEEVES OR CABLES.
8. WALL PENETRATION / SLEEVES / CONDUITS / BASKET TRAY PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE BUSHING ON BOTH ENDS.
9. CONDUIT PATHWAYS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR IN OPEN CEILING SPACES. APPROPRIATELY SIZED CONDUITS TO BE INSTALLED FOR DATA CABLE ROUTING TO CONCEAL DATA CABLE BETWEEN WAO LOCATION AND THE BASKET TRAY.
10. LOW VOLTAGE CONTRACTOR TO PROVIDE AND INSTALL J-HOOKS BETWEEN BASKET TRAY OR PATHWAY AND WAO LOCATION IS NEEDED.

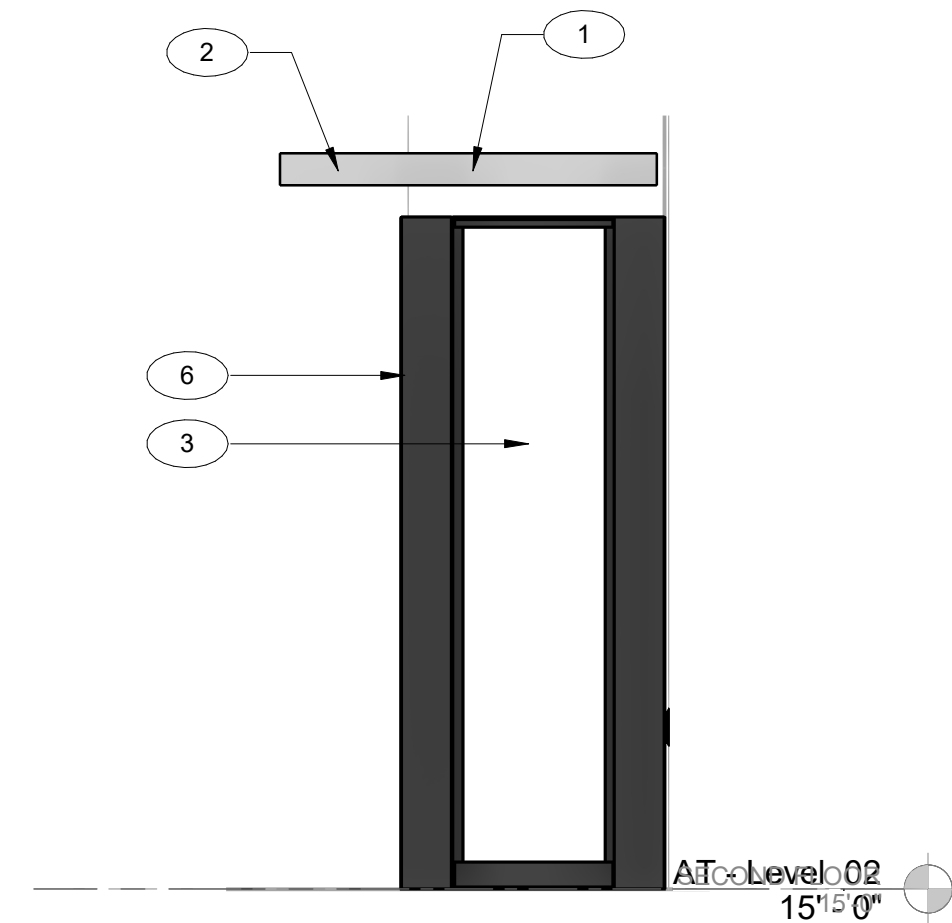
SHEET NOTES:

1. 12" LADDER CABLE TRAY APPROXIMATE LOCATION.
- (1) 4" CONDUIT SLEEVE FOR HORIZONTAL CABLING.
- 19" W x 7" H 4SRU, 2 POST RACK, BLACK IN COLOR.
- J-HOOK PATHWAY FROM IT ROOM TO EM-MON D-MON ENCLOSURE.
- PROVIDE, INSTALL, TERMINATE AND TEST (2) CATEGORY 6 CABLES TO WALL LOCATION. THE CATEGORY 6 CABLES SHALL BE INSTALLED FROM MAIN TELECOM ROOM 111.
- 6" X 7" VERTICAL WIRE MANAGER.



LEVEL 02 - IT ROOM - ISOMETRIC VIEW

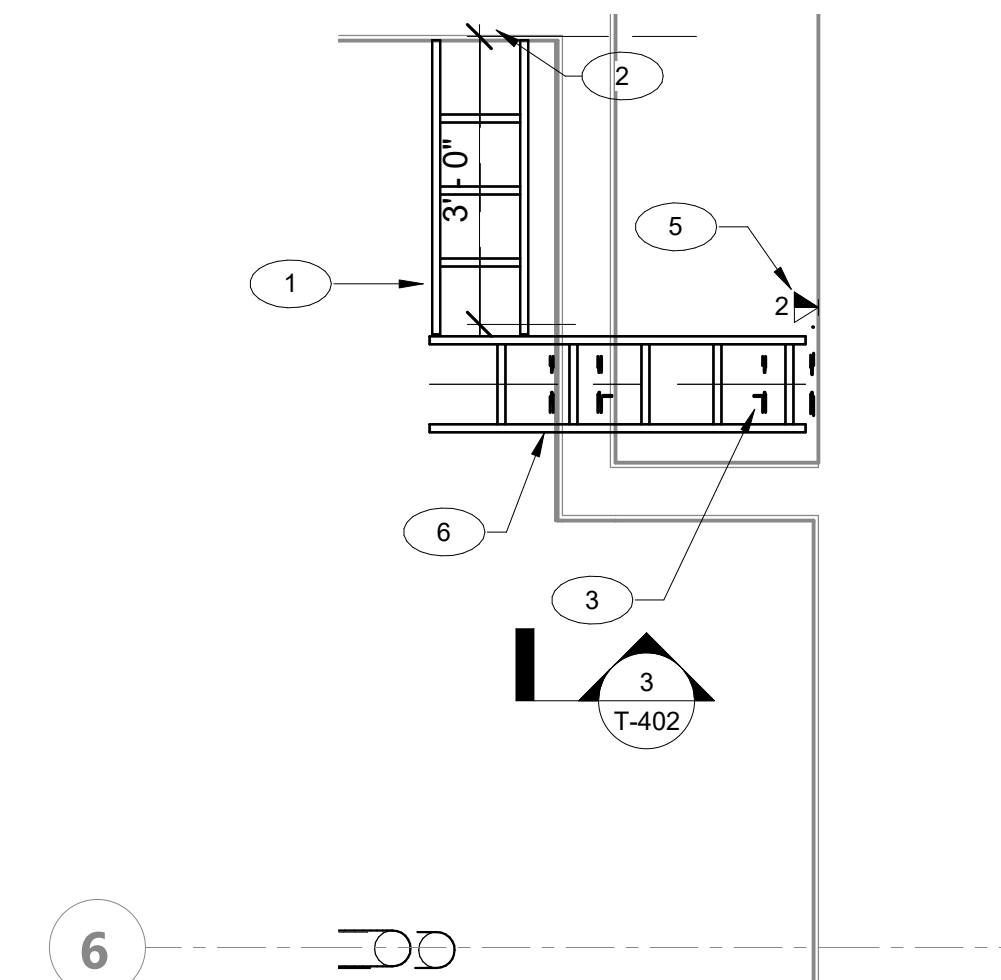
2



LEVEL 02 - IT ROOM - ELEVATION VIEW

1/2" = 1'-0"

3



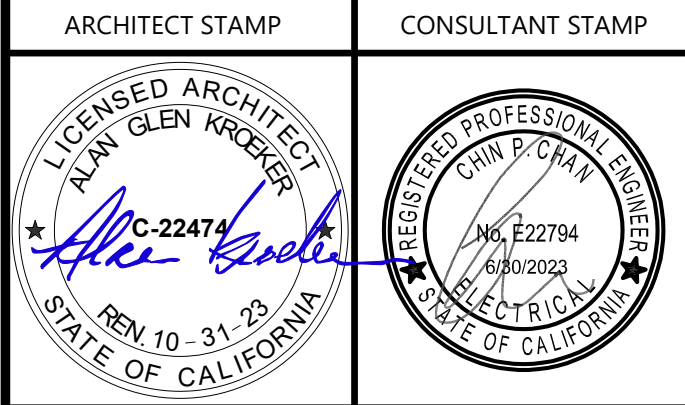
LEVEL 02 - TECHNOLOGY ENLARGED PLAN - IT ROOM

1/2" = 1'-0"

1



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SHEET TITLE
LEVEL 02 - TECHNOLOGY ENLARGED PLANS

DRAWN BY: *Author* JOB NUMBER: 21179.01

SHEET NO.
T-402

DATE: APRIL 11, 2023

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Approved by: *[Signature]* 07/18/2023

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CONSULTANT STAMP: *[Signature]* 222794, 6800252, STATE OF CALIFORNIA

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SHEET TITLE
TECHNOLOGY DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

SHEET NO.
T-501

DATE: APRIL 11, 2023

<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>4-PORT SURFACE MOUNT BOX</td> <td>1</td> <td>BLACK</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>1</td> <td>BLUE</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>1</td> <td>BLUE</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>1</td> <td>BLANK</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>1</td> <td>BLANK</td> </tr> <tr> <td>CABLE CAT 6A</td> <td>4</td> <td>WHITE</td> </tr> </tbody> </table> <p>2-PORT FLOORBOX DETAIL NOT TO SCALE 10</p>	DESCRIPTION	QUANTITY	COLOR	4-PORT SURFACE MOUNT BOX	1	BLACK	MODULE CAT 6A	1	BLUE	MODULE CAT 6A	1	BLUE	MODULE CAT 6A	1	BLANK	MODULE CAT 6A	1	BLANK	CABLE CAT 6A	4	WHITE	<p>HARD CAP CEILING MOUNTING DETAIL NOT TO SCALE 7</p>	<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>FACEPLATE 4-PORT</td> <td>1</td> <td>MATCH ELECTRICAL</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>2</td> <td>BLUE</td> </tr> <tr> <td>CABLE CAT 6A</td> <td>2</td> <td>WHITE</td> </tr> </tbody> </table> <p>4-PORT FLOORBOX DETAIL NOT TO SCALE 4</p>	DESCRIPTION	QUANTITY	COLOR	FACEPLATE 4-PORT	1	MATCH ELECTRICAL	MODULE CAT 6A	2	BLUE	CABLE CAT 6A	2	WHITE	<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>FACEPLATE 2-PORT</td> <td>1</td> <td>MATCH ELECTRICAL</td> </tr> <tr> <td>MODULE CAT 6A</td> <td>2</td> <td>BLUE</td> </tr> <tr> <td>CABLE CAT 6A</td> <td>2</td> <td>WHITE</td> </tr> </tbody> </table> <p>2-PORT FURNITURE DATA WORK AREA OUTLET DETAIL NOT TO SCALE 1</p>	DESCRIPTION	QUANTITY	COLOR	FACEPLATE 2-PORT	1	MATCH ELECTRICAL	MODULE CAT 6A	2	BLUE	CABLE CAT 6A	2	WHITE
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C-22474
REV 10-31-23
STATE OF CALIFORNIA
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Alfonso Estrada
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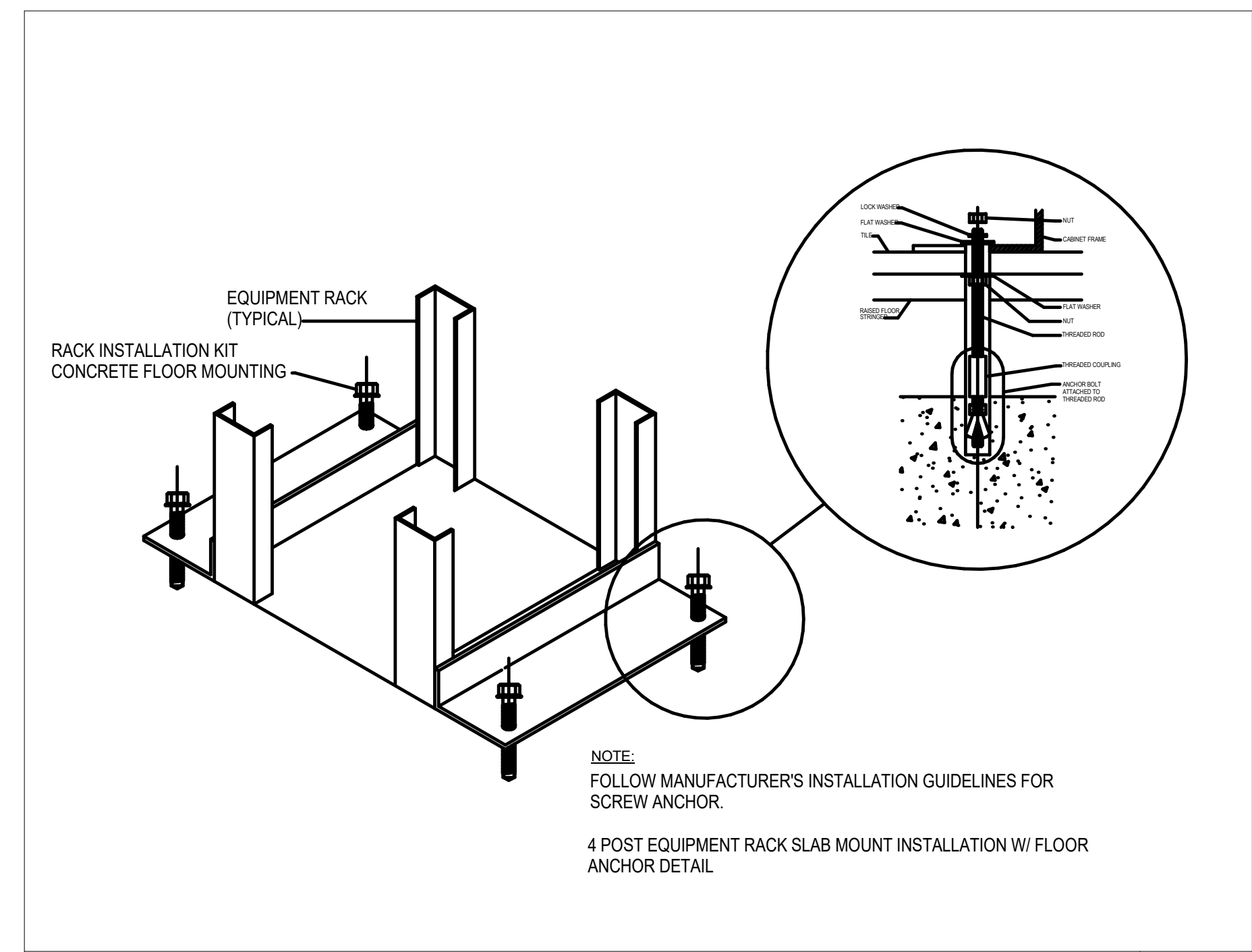
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SHEET TITLE
TECHNOLOGY DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

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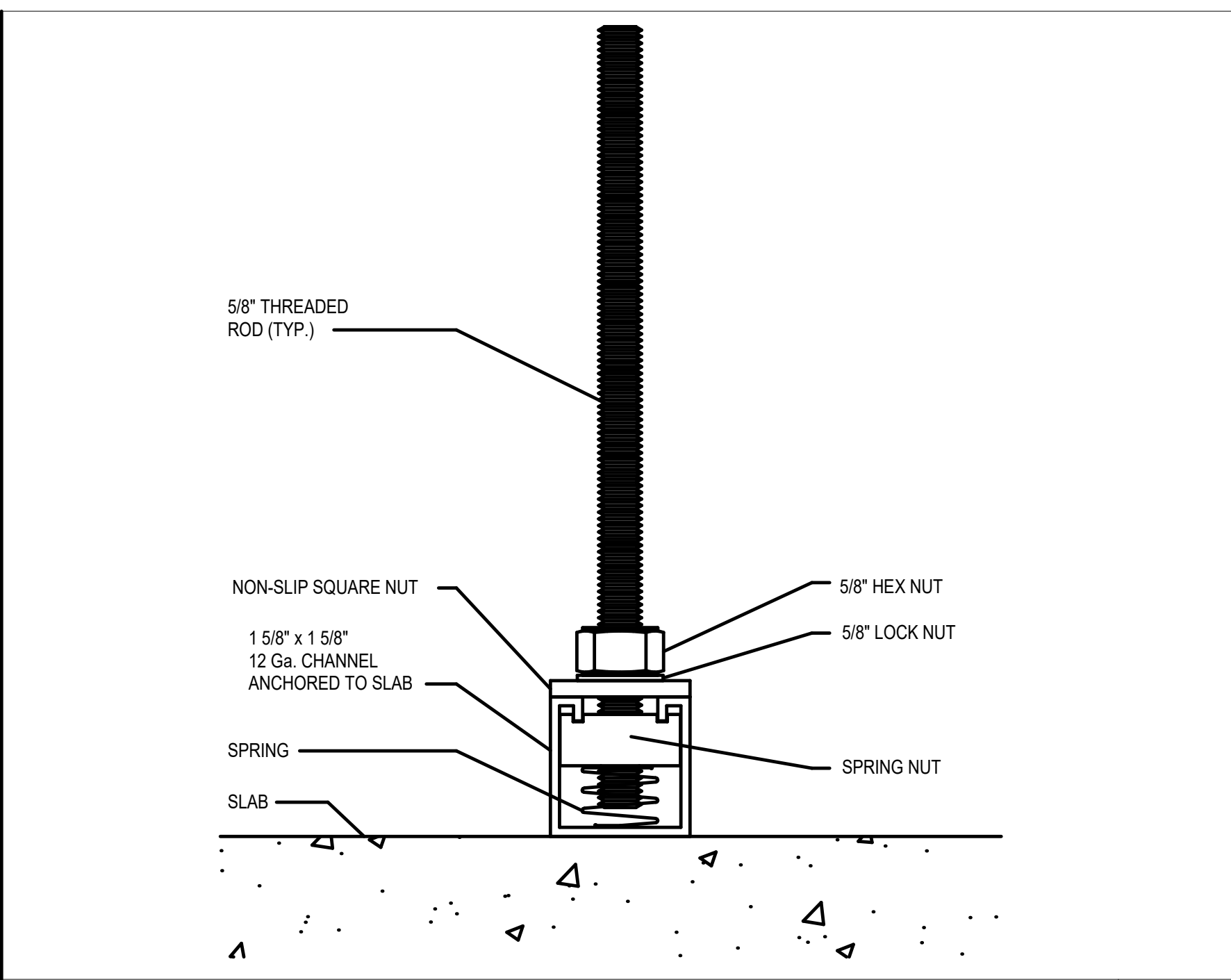
4 POST EQUIPMENT RACK SLAB MOUNT INSTALLATION W/ FLOOR ANCHOR DETAIL NOT TO SCALE **7**

PENETRANT	UL SYSTEM #	F RATING	COMMENTS
CONCRETE FLOORS AND WALLS			
SINGLE CONDUIT	C-AJ-1333 (OR C-AJ-1080)	2, 3 Hr (3 Hr)	APPLICABLE TO EMT CONDUITS
MULTIPLE CONDUITS	C-AJ-8113	2 Hr	APPLICABLE TO EMT CONDUITS
CABLES IN SLEEVE	C-AJ-3194	2, 3, 4 Hr	APPLICABLE TO EMT SLEEVES
SINGLE EZ-PATH SLEEVE	C-AJ-3280	2 Hr	APPLICABLE TO FLOORS
MULTIPLE EZ-PATH SLEEVES	F-A-3037	2 Hr	APPLICABLE TO FLOORS
GYPSUM (GWB) WALLS			
SINGLE CONDUIT	W-4-1222	1, 2 Hr	SYSTEM RATING = WALL RATING
MULTIPLE CONDUITS	W-4-1168	1, 2 Hr	SYSTEM RATING = WALL RATING
CABLES IN SLEEVE	W-4-3210	1, 2 Hr	SYSTEM RATING = WALL RATING
EZ-PATH SLEEVE	W-4-3306	3, 4 Hr	-

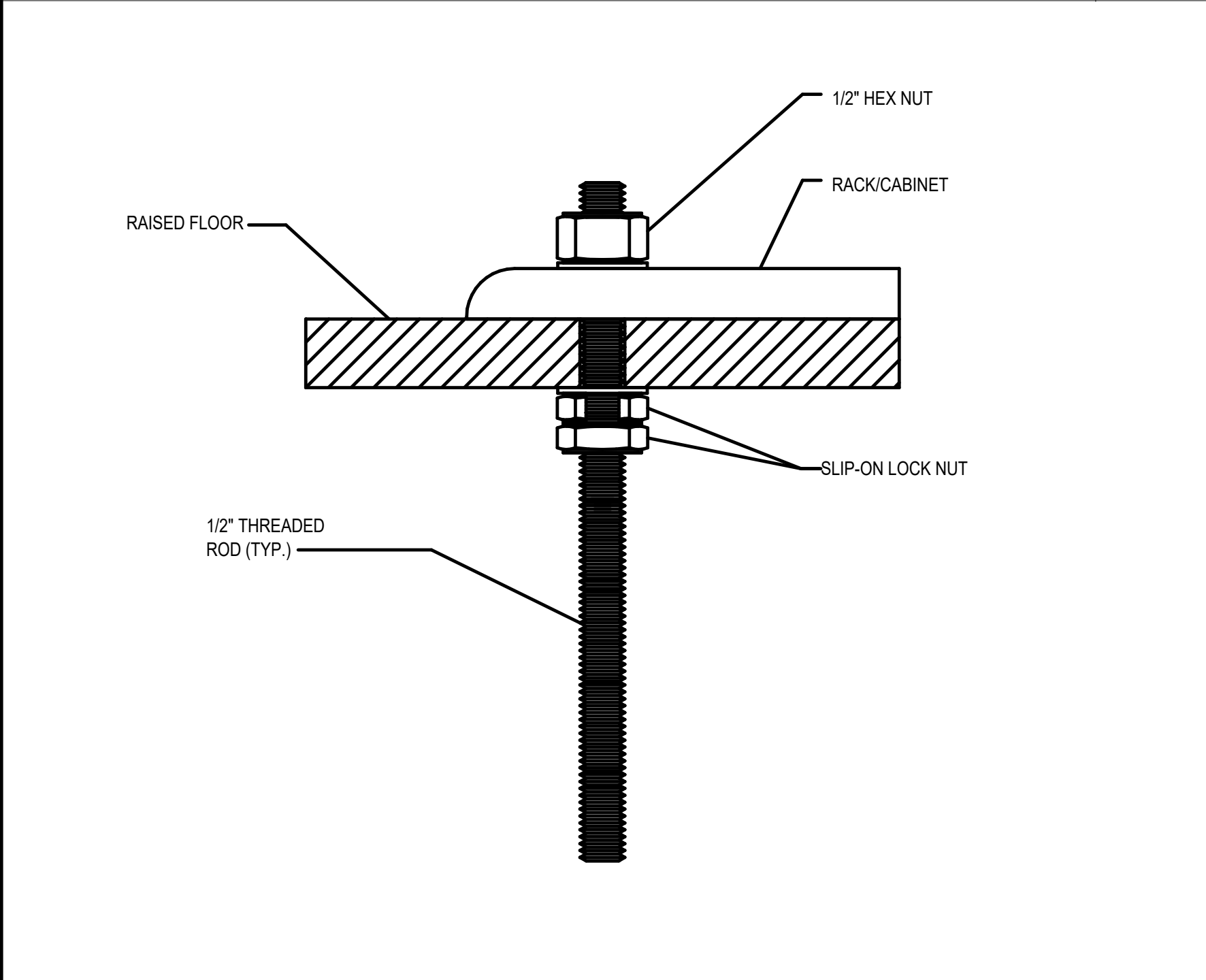
APPROVED SYSTEMS FOR FIRE RATED PENETRATIONS NOT TO SCALE **8**

BASKET	CONDUITS
ACCESSIBLE CEILING	NON-RATED PARTITIONS
8" x 8" BASKET	1/2" CONDUITS
12" x 8" BASKET	1/2" CONDUITS
18" x 8" BASKET	1/2" CONDUITS
24" x 8" BASKET	1/2" CONDUITS
30" x 8" BASKET	1/2" CONDUITS

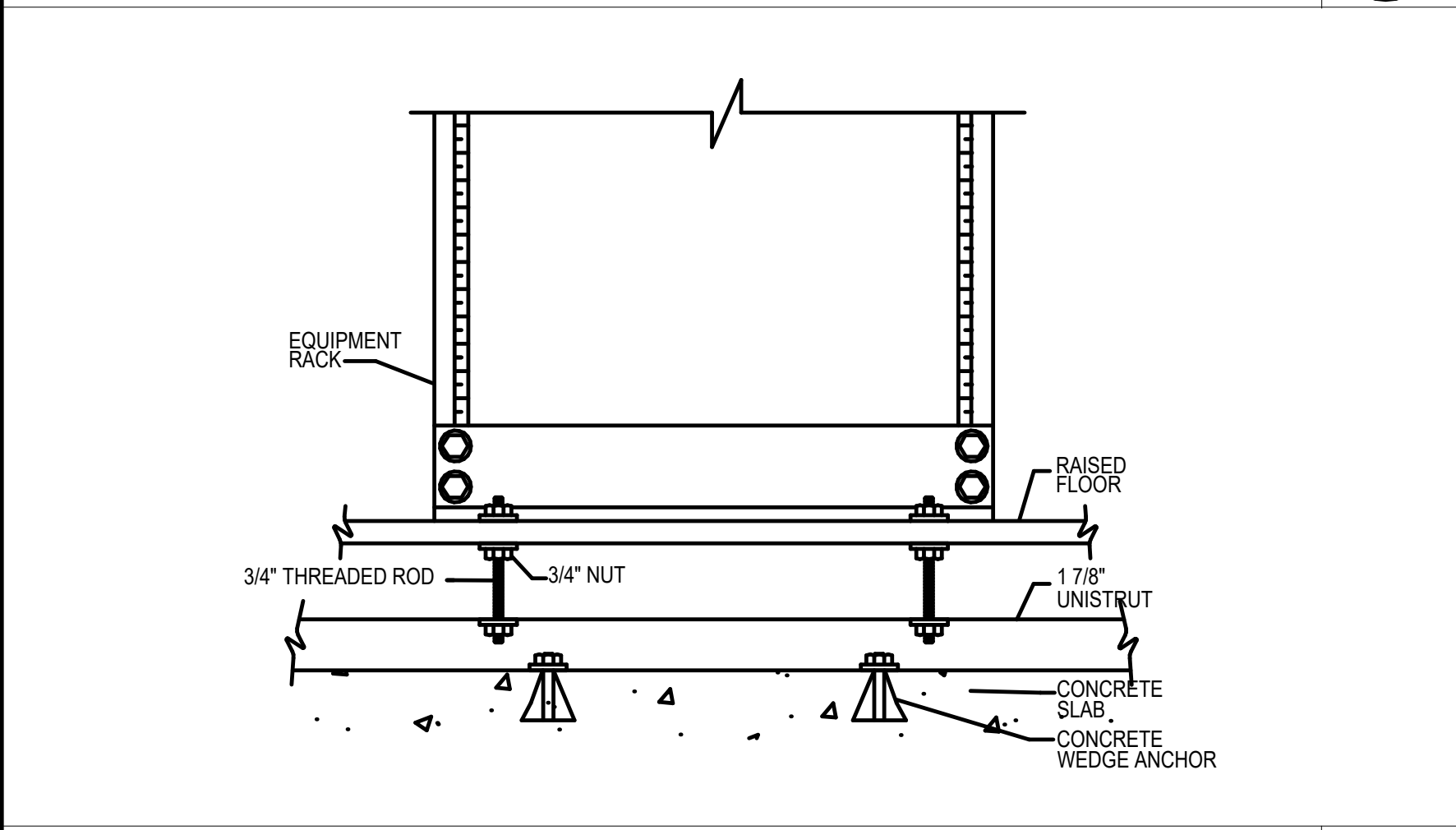
CABLE TRAY TO EZ-PATH TO CONDUIT NOT TO SCALE **9**



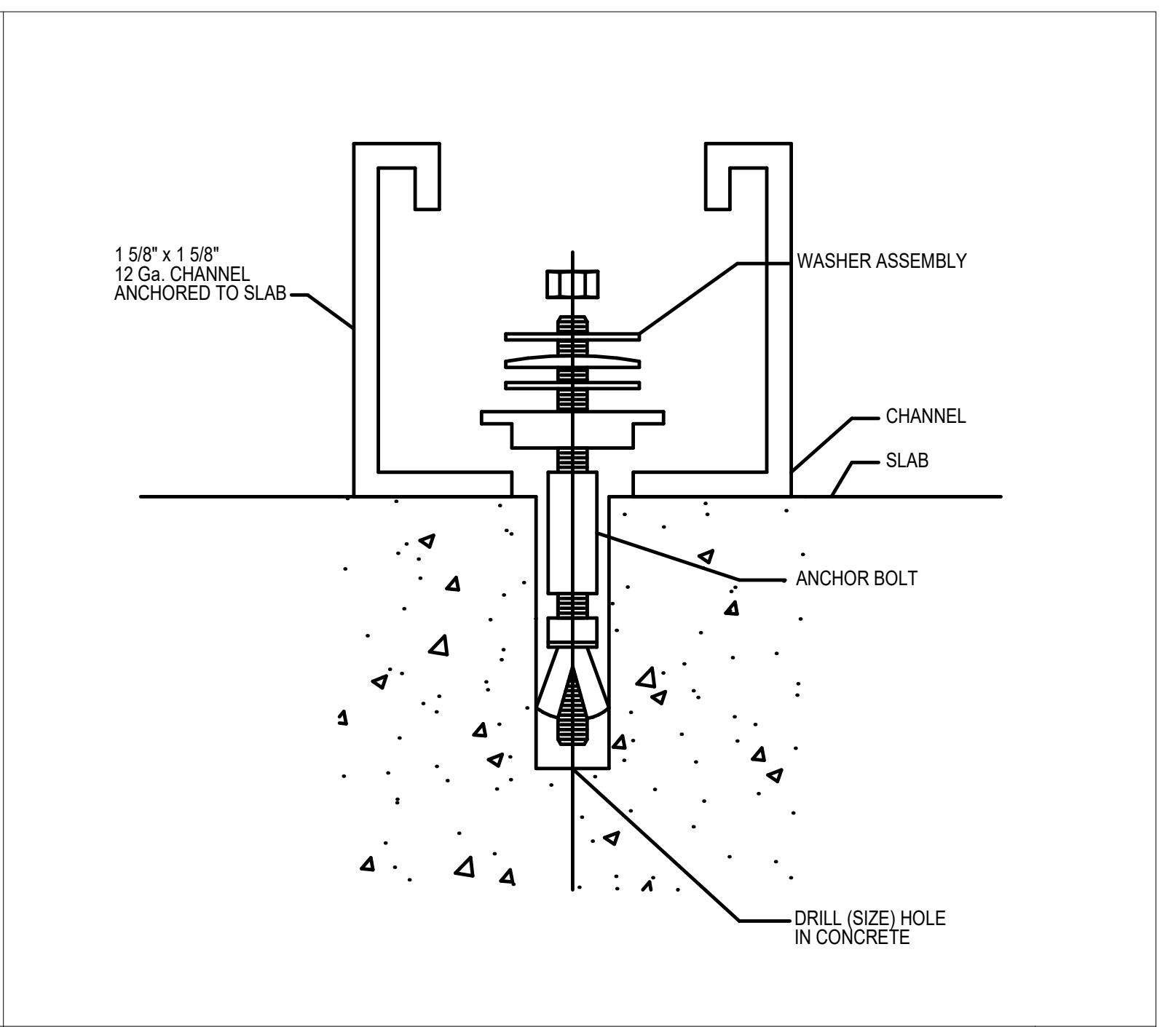
FLOOR MOUNTED CHANNEL SUPPORT DETAIL NOT TO SCALE **4**



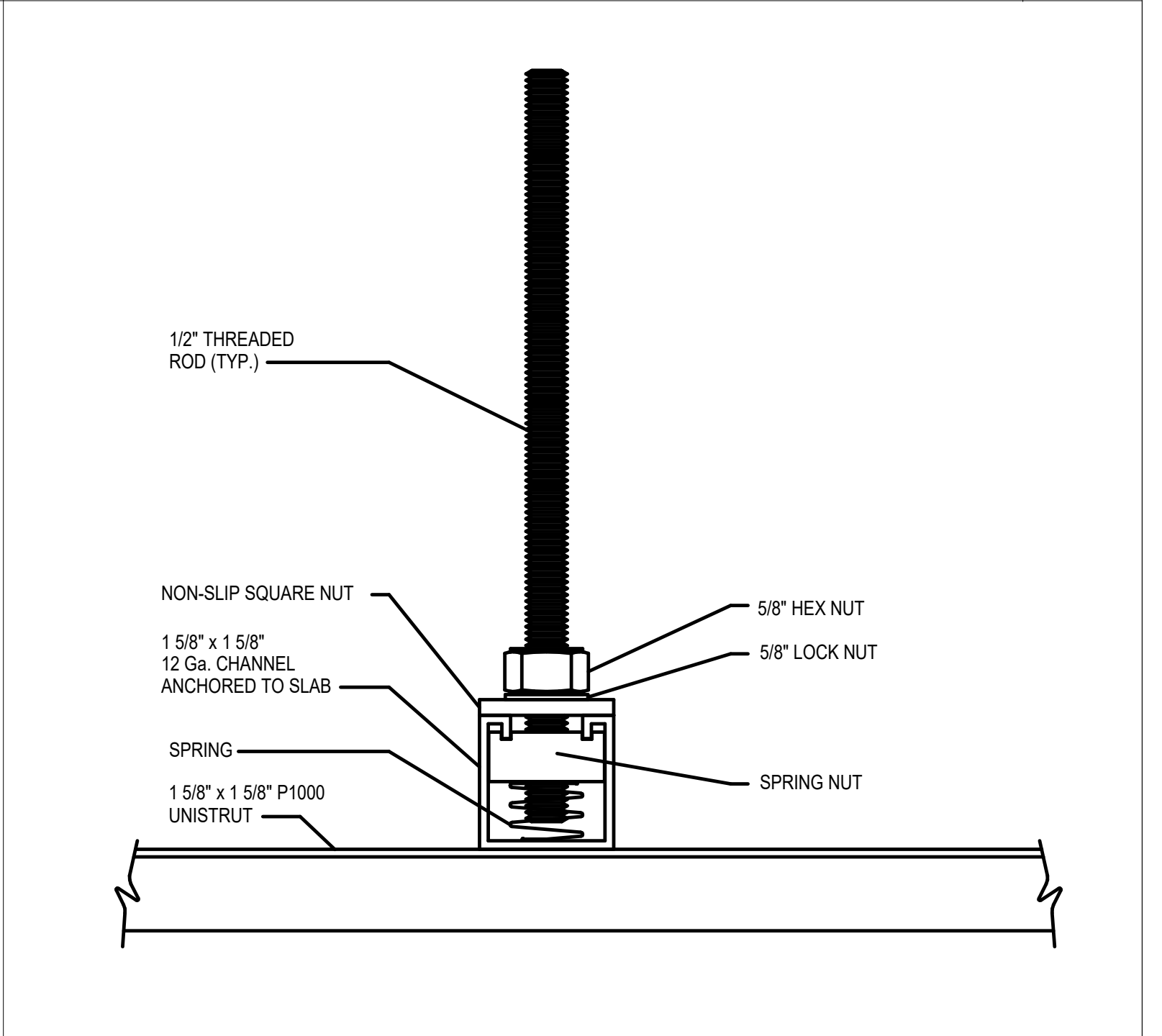
EQUIPMENT RACK / CABINET MOUNTING DETAIL NTS **5**



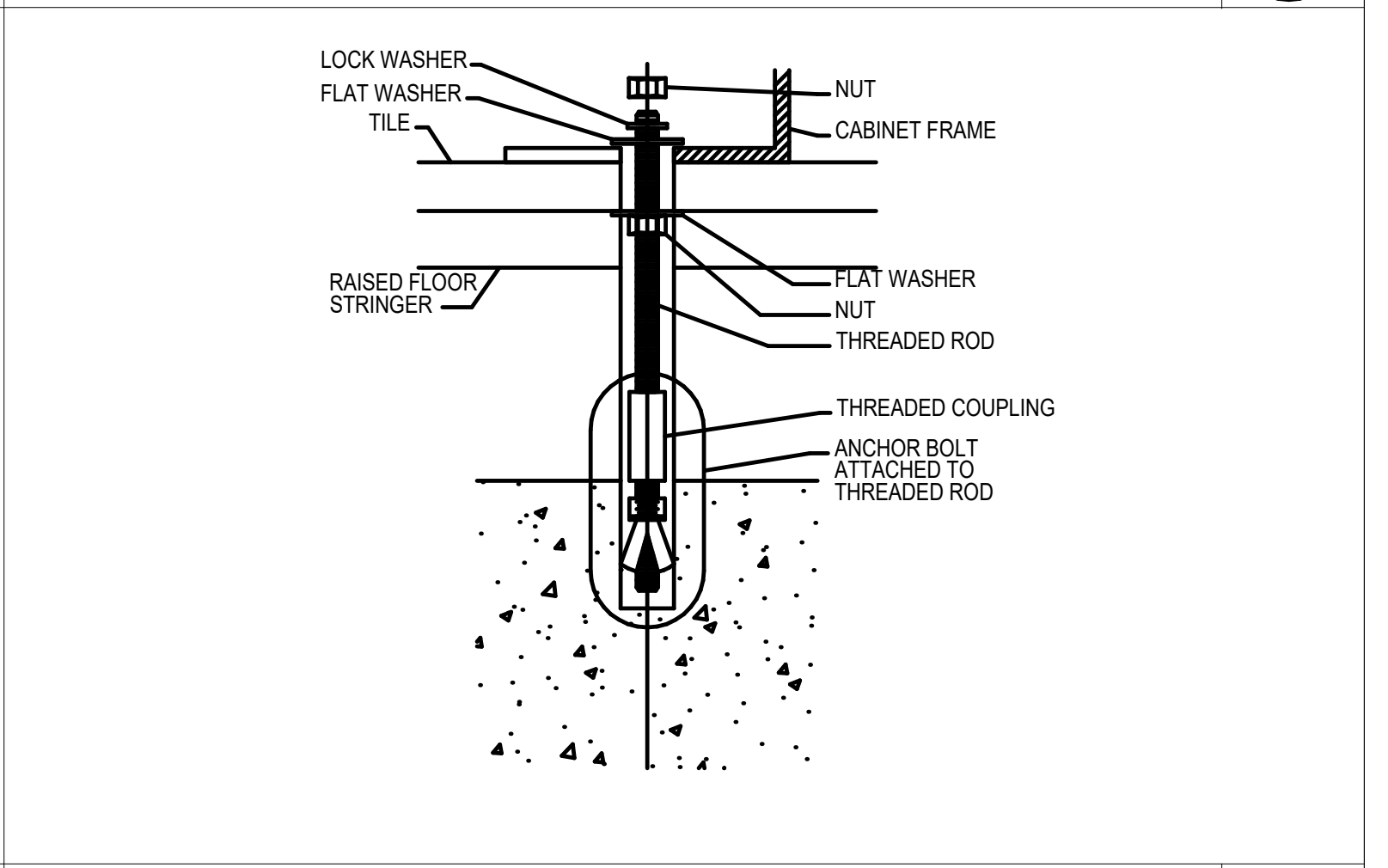
SERVER ROOM RACK / RAISED FLOOR MOUNTING DETAIL NOT TO SCALE **6**



FLOOR ANCHOR AT CHANNEL SUPPORT DETAIL NOT TO SCALE **1**



CHANNEL SUPPORT DETAIL NOT TO SCALE **2**



RAISED FLOOR ANCHOR AT CABINET DETAIL NOT TO SCALE **3**

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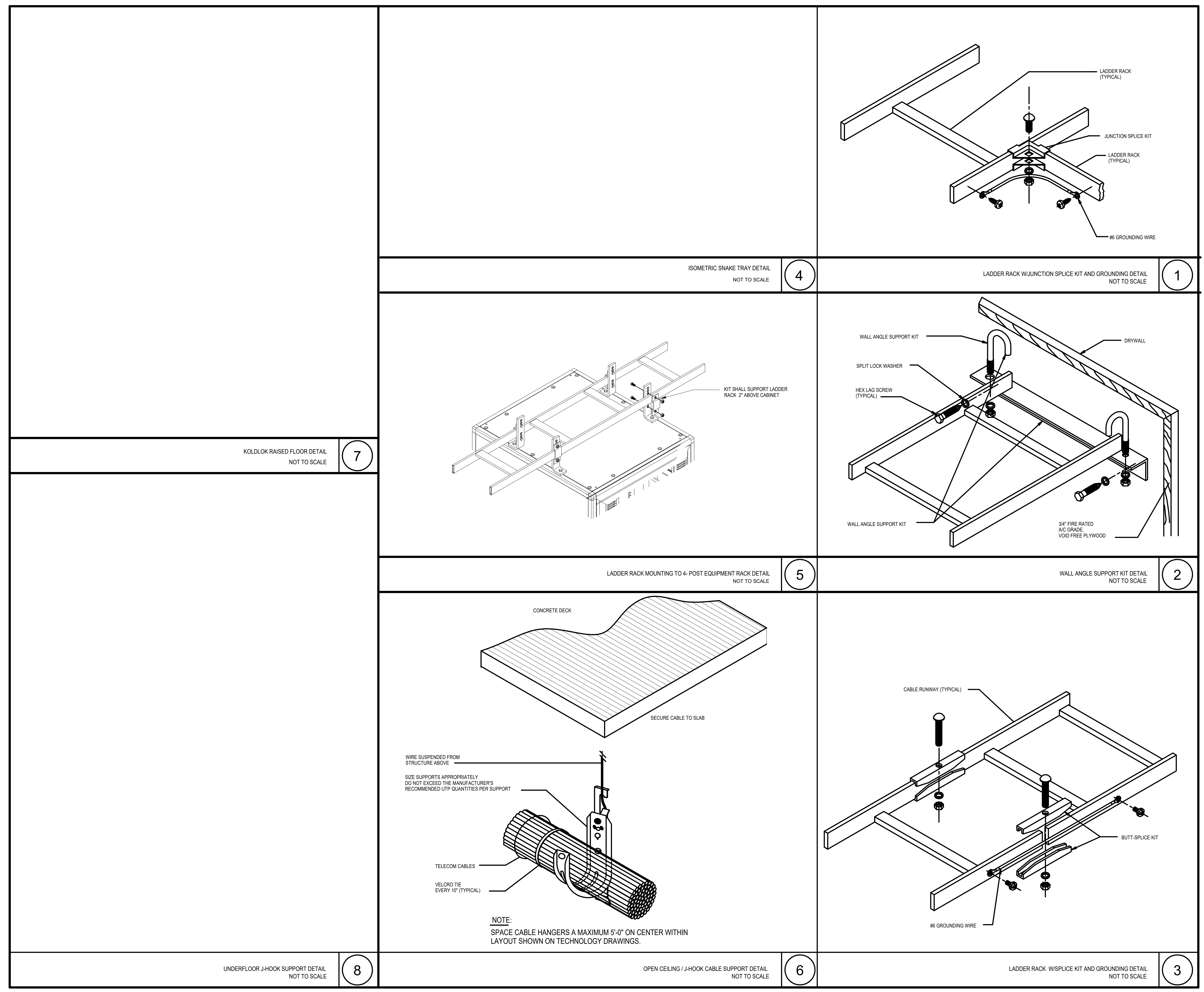
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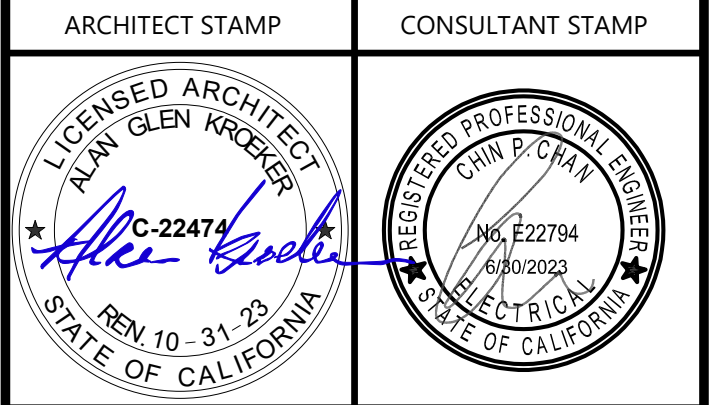




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 - FIRE PROTECTION ENGINEER**
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TEL (805) 541-2527
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DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR. SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324



NO.	DATE	DESCRIPTION

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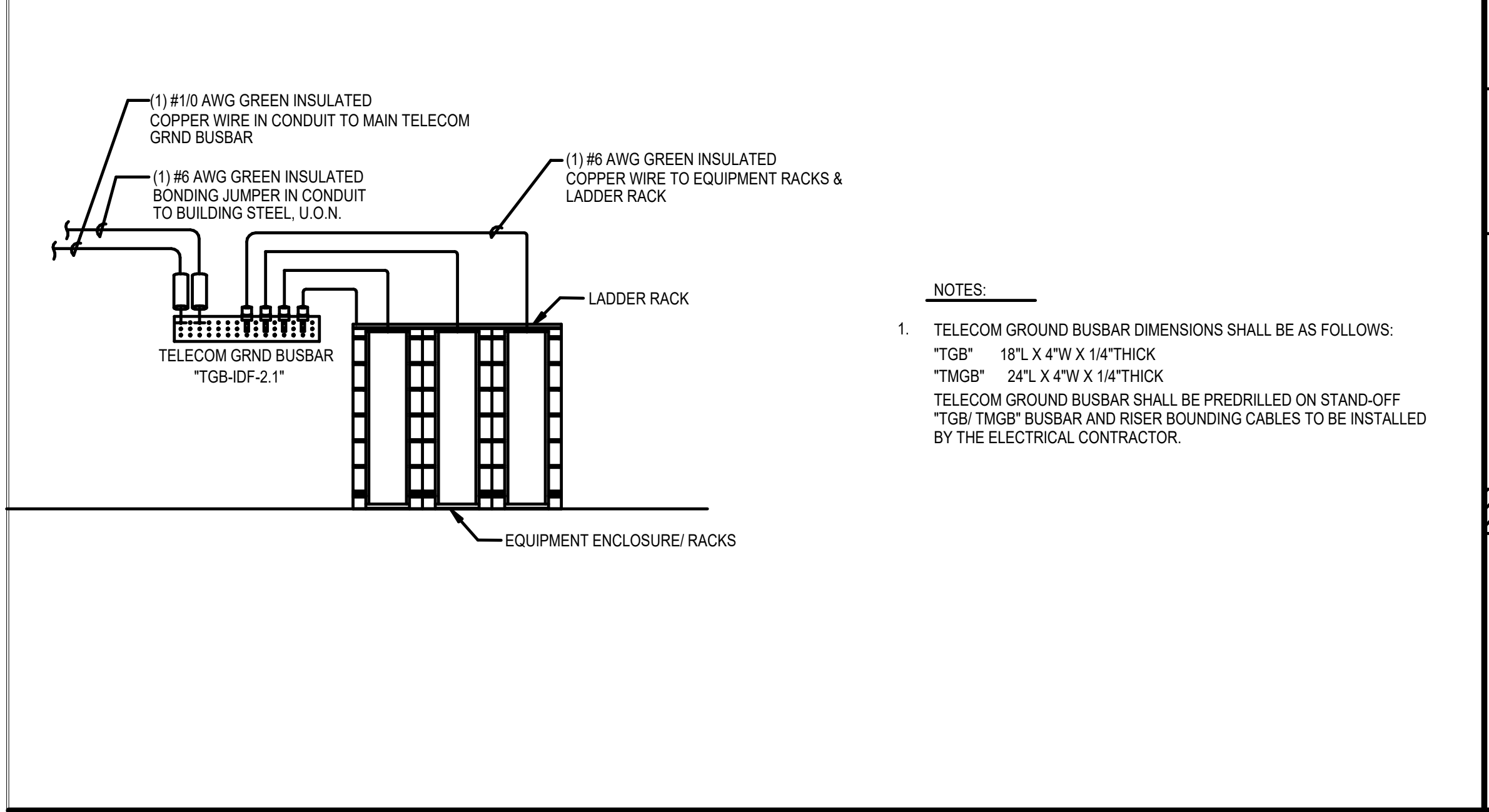
PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93407

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Mount Bishop Road
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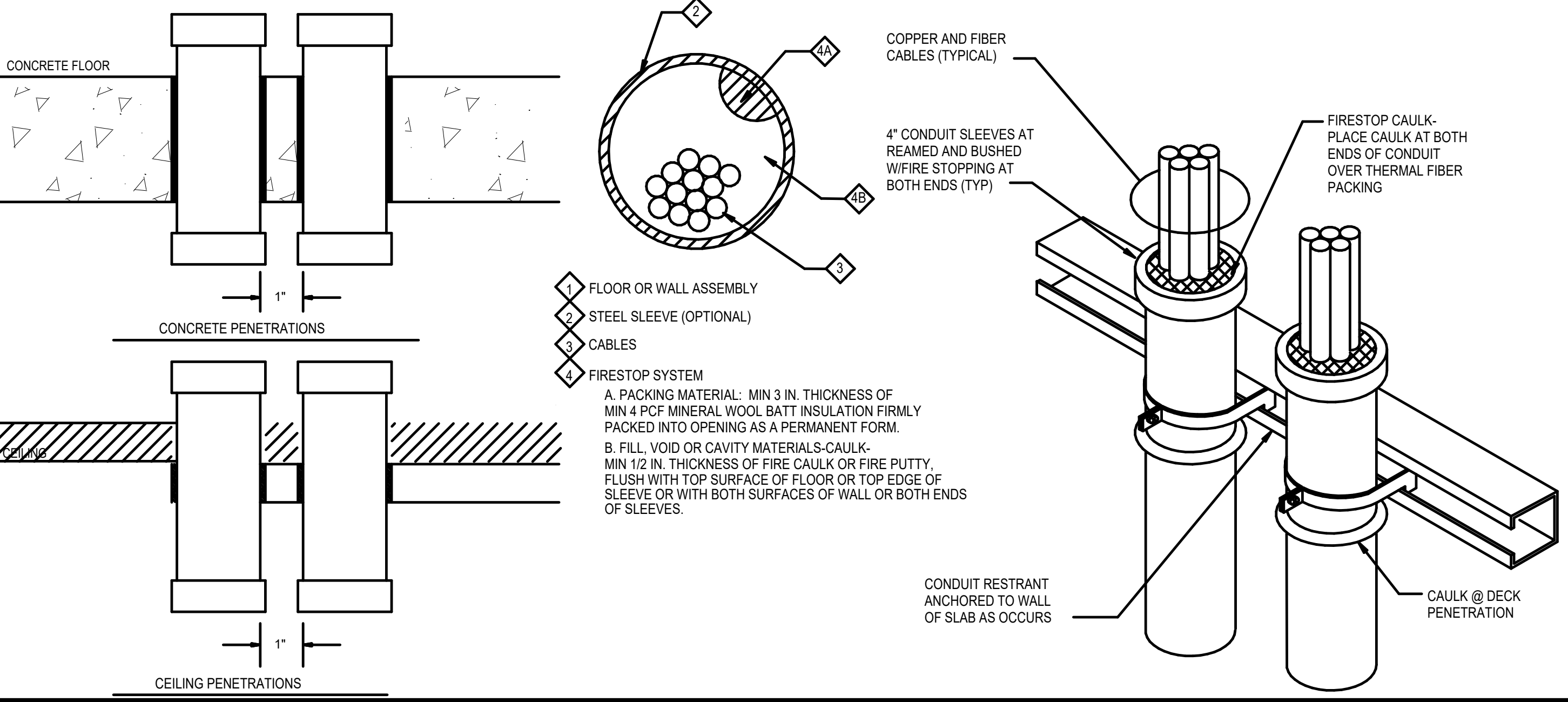
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TECHNOLOGY DETAILS

DRAWN BY: Author JOB NUMBER: 21179.01

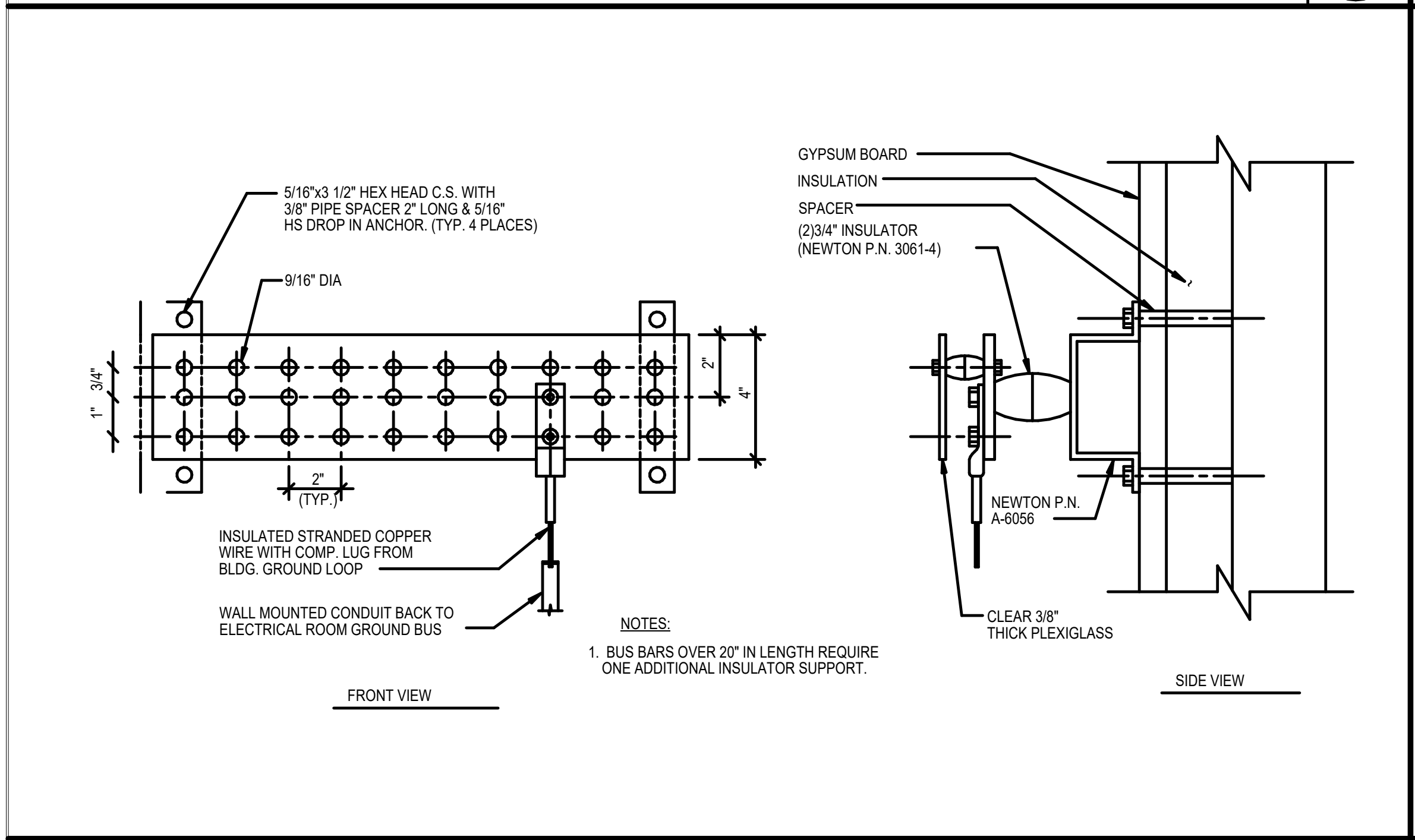
SHEET NO.
T-504
DATE: APRIL 11, 2023



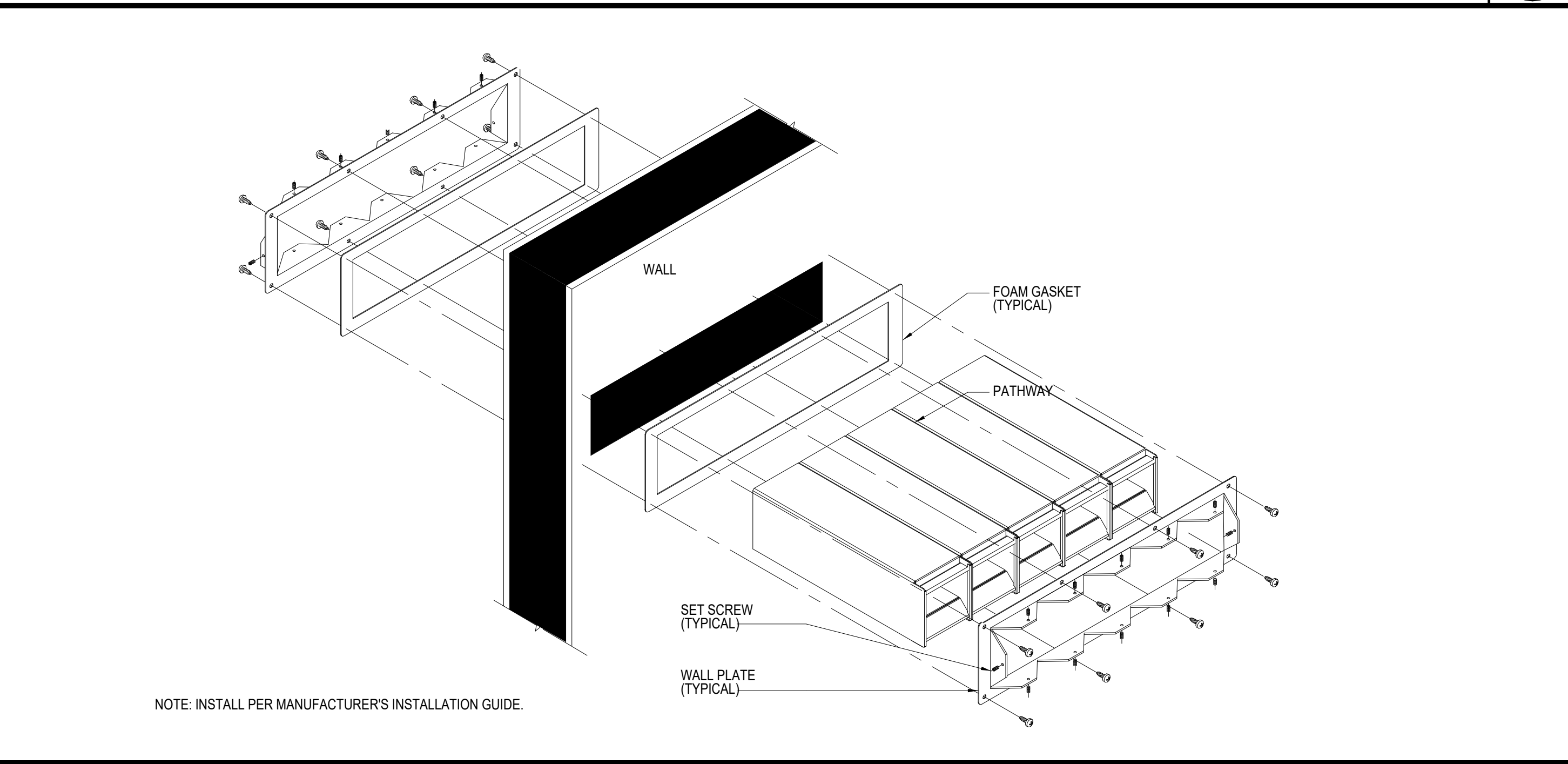
GROUNDING AND BUS RISER NOT TO SCALE **4**



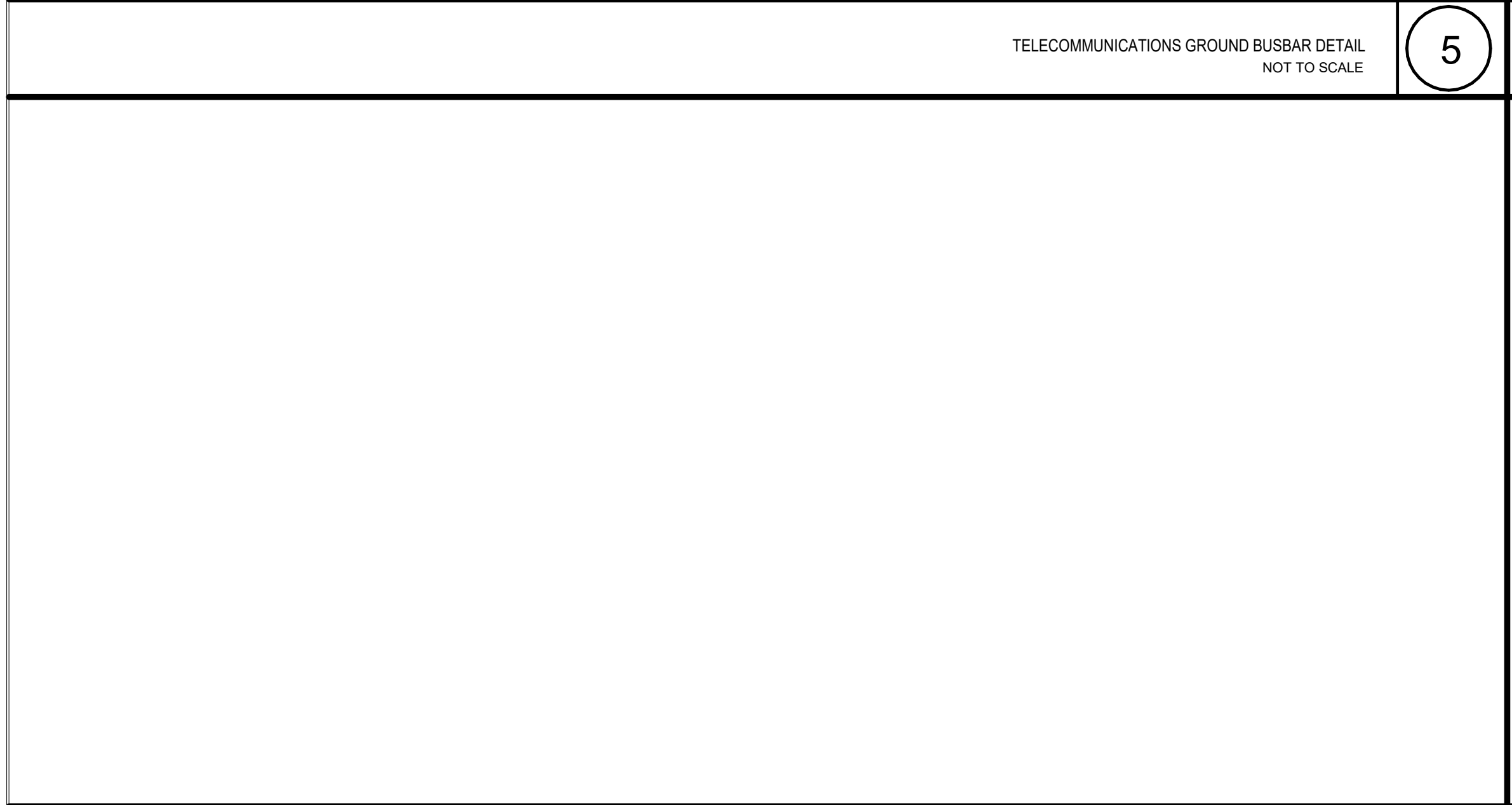
DECK VERTICAL CONDUIT/SLEEVE THRU PENETRATIONS FIRE STOPPING DETAIL NOT TO SCALE **1**



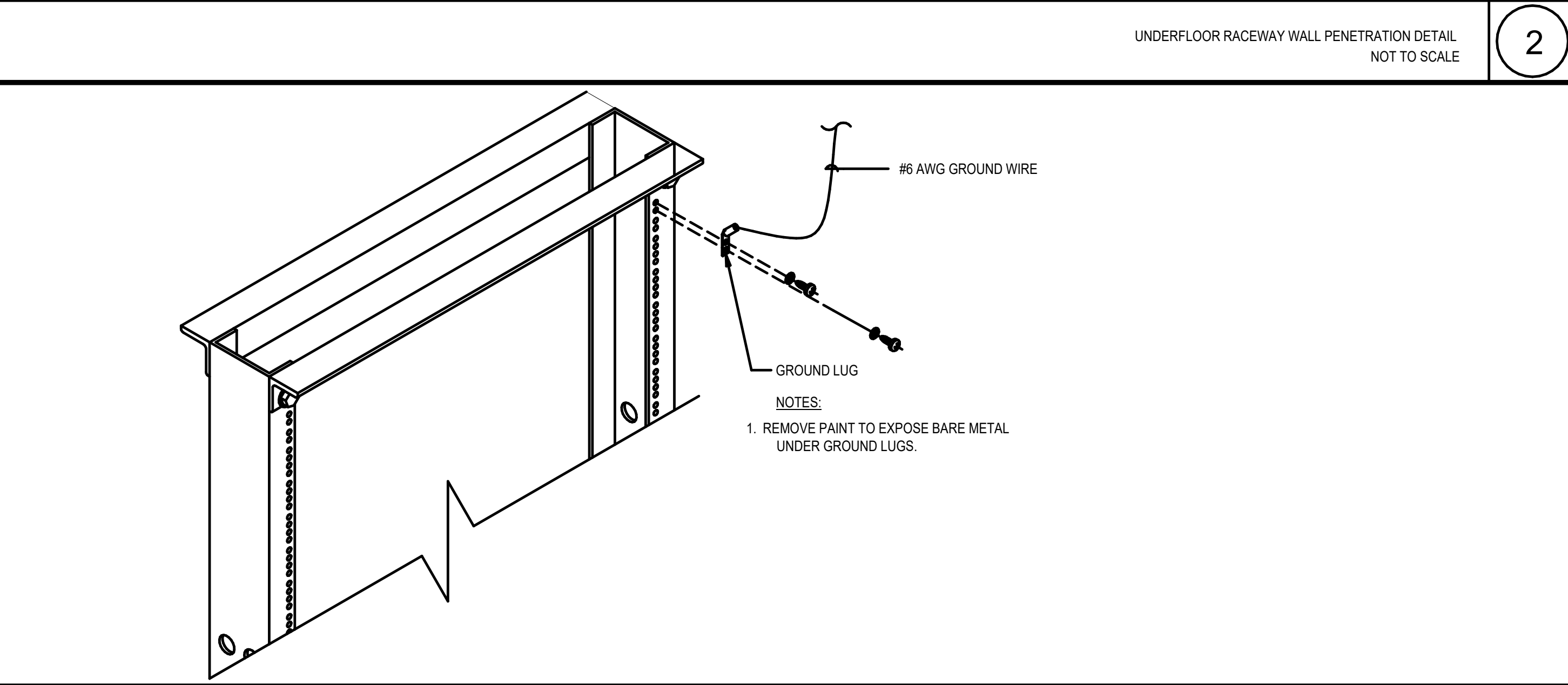
TELECOMMUNICATIONS GROUND BUSBAR DETAIL NOT TO SCALE **5**



UNDERFLOOR RACEWAY WALL PENETRATION DETAIL NOT TO SCALE **2**



6



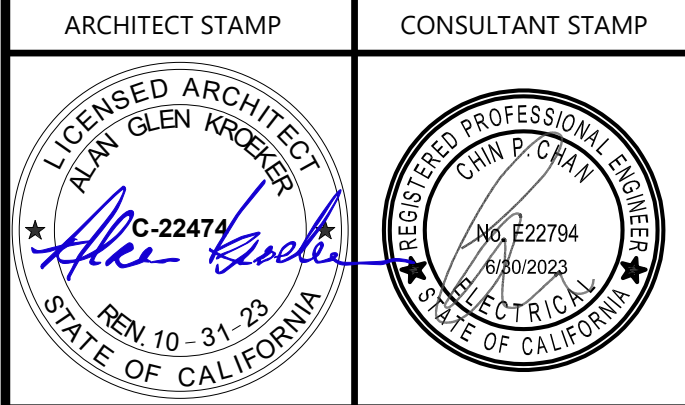
EQUIPMENT RACK WITH VERTICAL RACK BUSBAR DETAIL NOT TO SCALE **3**

SHEET NOTES:

- 25 PAIR CATEGORY 3 RISER CABLE, 12/12 STRAND OS1 SINGLE MODE / OM4 MULTI MODE PLENUM RATED FIBER CABLE.
- PROVIDE (1) 48-STRAND SINGLE MODE OS2 SINGLE MODE FIBER OPTIC CABLE AND (1) 50 PAIR OSP CATEGORY 3 CABLE.
- PROVIDE (2) 4" EMT CONDUIT RISERS FROM MDF ROOM ON LEVEL 1 TO IDF ROOM ON LEVEL 2.
- (3) 4" SCHEDULE 40 PVC CONDUIT ROUTED FROM (N) 4' X 6' X 3' COMMUNICATIONS PULLBOX TO TELECOM ROOM 111.



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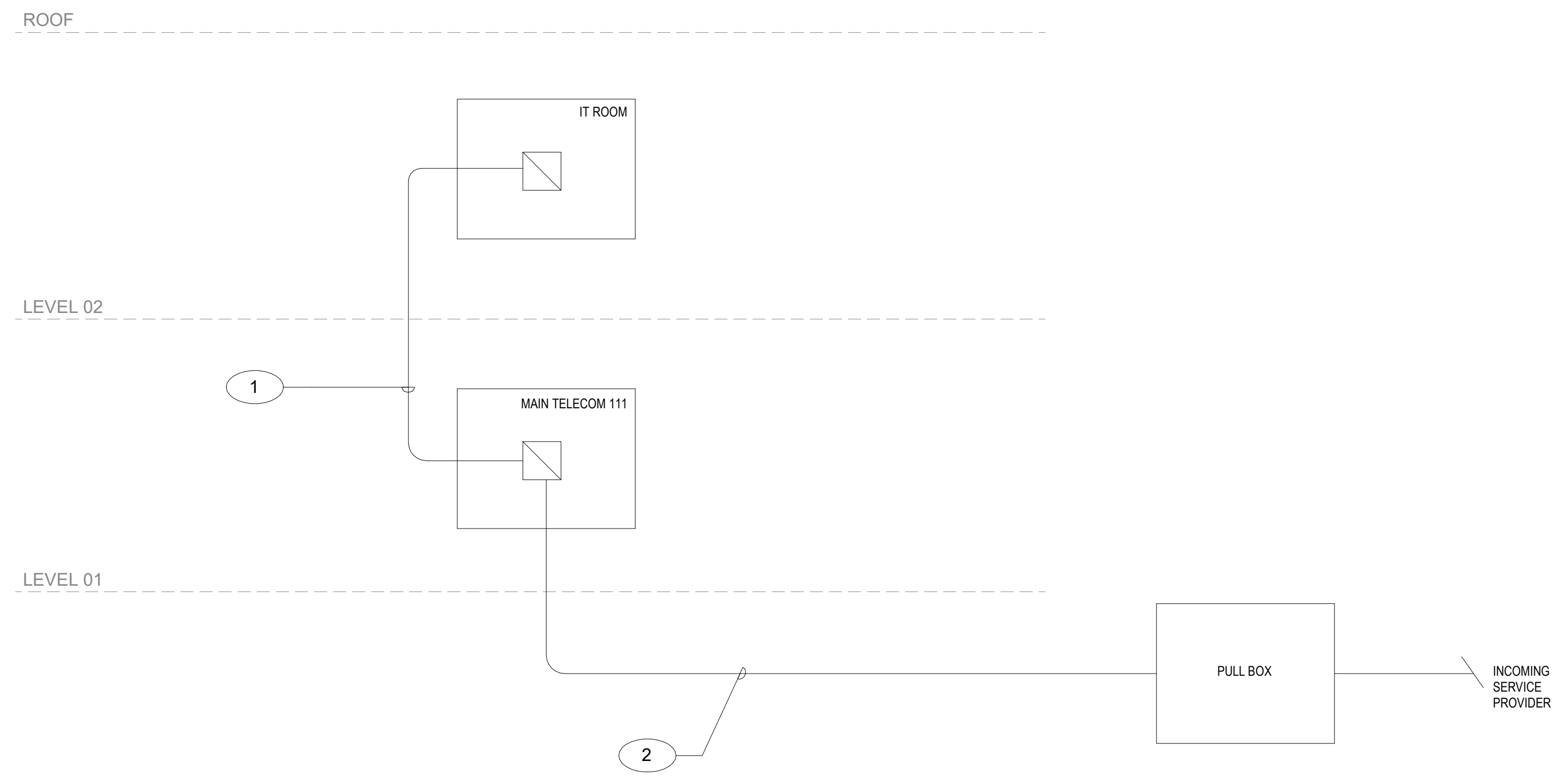
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SHEET TITLE
TECHNOLOGY RISER DIAGRAM

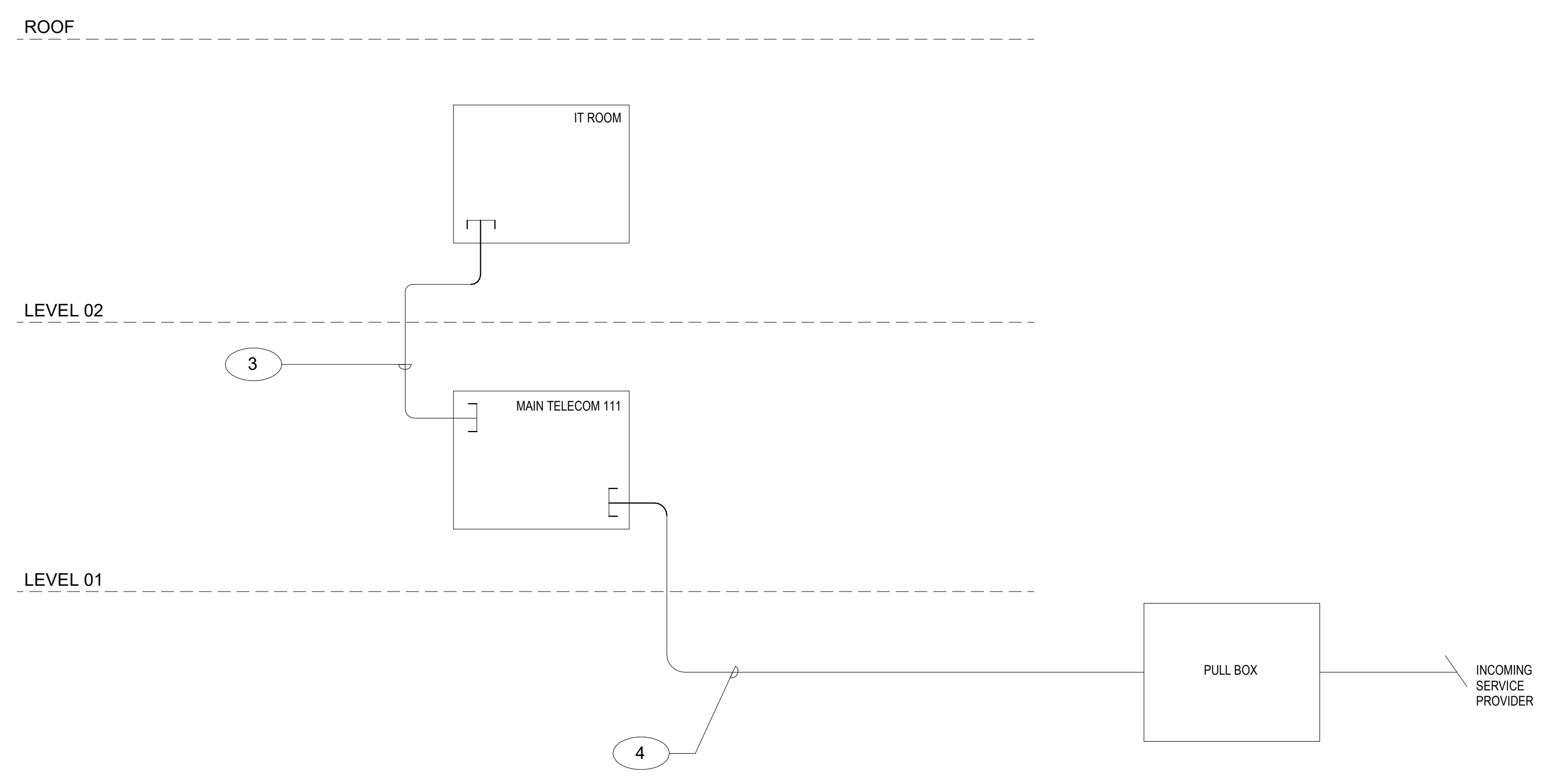
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SHEET NO.
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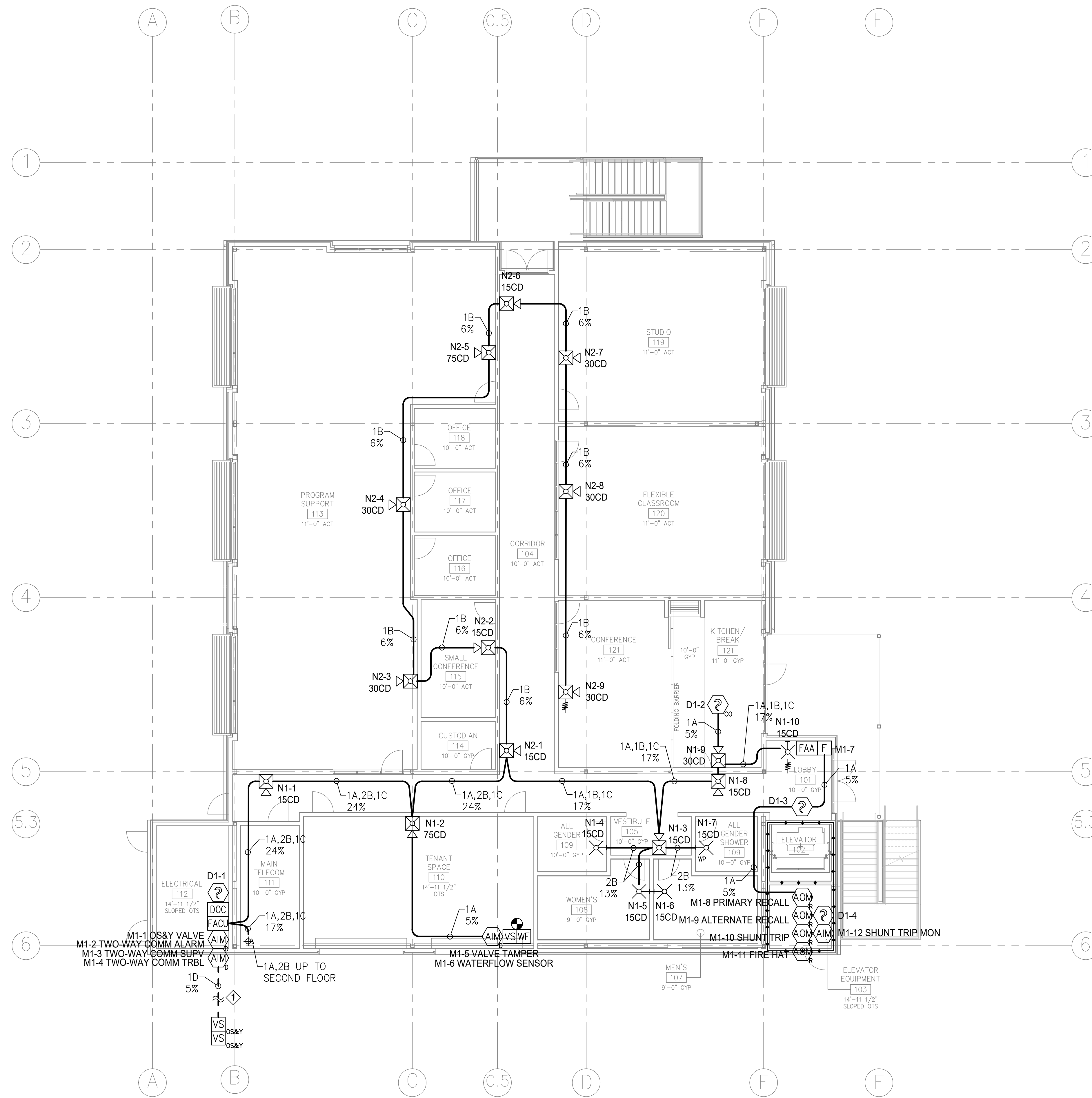
DATE: APRIL 11, 2023



TECHNOLOGY CABLING RISER DIAGRAM 6" = 1'-0" 1



TECHNOLOGY BACKBONE RISER DIAGRAM 6" = 1'-0" 2



LEVEL 01 - FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



SYMBOL LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[FAA]	FIRE ALARM ANNUNCIATOR
[DOC]	DOCUMENT BOX
[F]	MANUAL ALARM STATION
[P]	PHOTO SMOKE DETECTOR W/ DETECTOR BASE
[P-?]	DUCT PHOTO SMOKE DETECTOR W/ DETECTOR HOUSING
[C.O.]	C.O./SMOKE DETECTOR W/ DETECTOR BASE
[AIM]	MONITOR MODULE
[AIM]	DUAL MONITOR MODULE
[OM]	RELAY MODULE
[H]	HORN/STROBE WALL MOUNT
[S]	STROBE WALL MOUNT
[S-WP]	STROBE WALL MOUNT, WEATHERPROOF
[V]	OS&Y VALVE
[V]	VALVE TAMPER SWITCH
[WF]	WATERFLOW SWITCH
[R]	FIRE SPRINKLER RISER
[T]	EQUIPMENT TAG
[R]	END OF LINE RESISTOR

SHEET NOTES:

◆ ELECTRICAL CONTRACTOR SHALL PROVIDE UNDERGROUND CONDUIT BETWEEN BUILDINGS AND TO BACKFLOW. FIELD VERIFY PRIOR TO INSTALLATION.

—••••• 1-HR RATED FIRE WALL

SIGNALING LINE CIRCUIT (SLC) DEVICES	
D = SLC DETECTOR CIRCUIT	M = SLC MODULE CIRCUIT
D-# — DEVICE NUMBER	M-# — DEVICE NUMBER

NOTIFICATION APPLIANCE CIRCUIT (NAC) DEVICES	
CEILING	CANDELA RATING
WEATHERPROOF — WP or C	xCD — N = NAC CIRCUIT #
	Nx-x — DEVICE NUMBER

FIRE ALARM CIRCUITS	
	CABLE QUANTITIES AND TYPES
	CONDUIT FILL

CONDUIT FILL INFORMATION:
3/4" CONDUIT - TOTAL INTERNAL DIAMETER = .82" / TOTAL INTERNAL AREA = 0.53 (in.^2)

CIRCUIT	TYPE	SIZE	COND.	OD DIAMETER (in.)	AREA (in.^2)
A	FPLP	16	2	0.178	0.025
B	FPLP	14	2	0.206	0.033
C	FPLP	18	6	0.208	0.034
D	FPLP	16	2	0.178	0.025

MAXIMUM PERCENTAGE ALLOWABLE FOR 2 OR MORE CONDUCTORS: 40%

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Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

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196

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ARCHITECT STAMP

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[Professional Seal: Alper Gurbul, License No. C-22474, State of California]

NO.	DATE	DESCRIPTION
	12-22-22	95% CD

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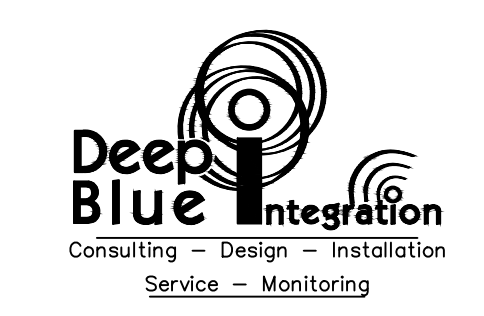
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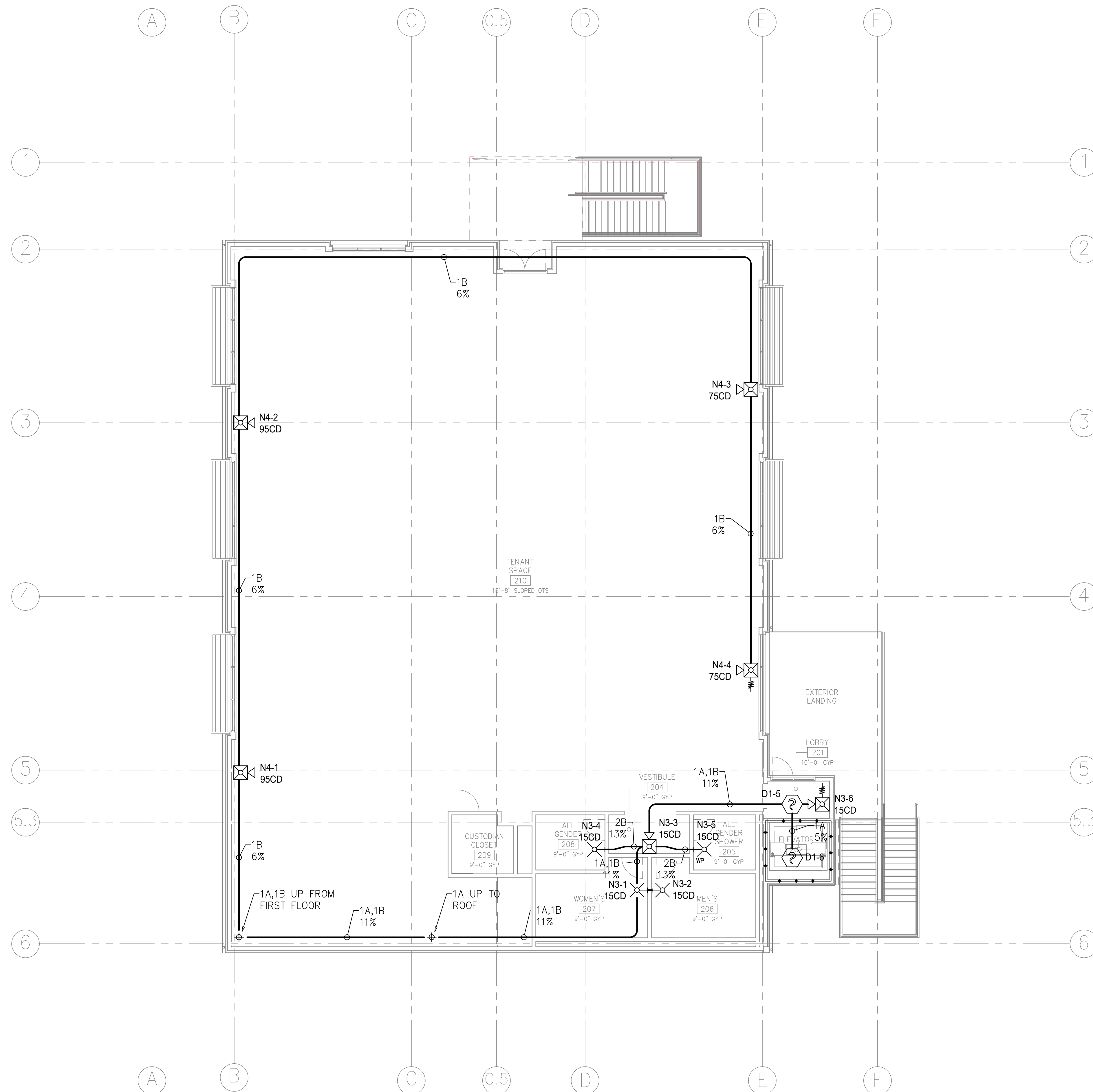
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SHEET TITLE
LEVEL 01 - FIRE ALARM PLAN

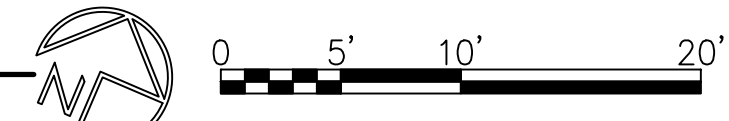
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SHEET NO.
FA-102
DATE: DECEMBER 22, 2022





LEVEL 02 - FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



SYMBOL LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[FAA]	FIRE ALARM ANNUNCIATOR
[DOC]	DOCUMENT BOX
[F]	MANUAL ALARM STATION
[PDS]	PHOTO SMOKE DETECTOR W/ DETECTOR BASE
[PDS-H]	DUCT PHOTO SMOKE DETECTOR W/ DETECTOR HOUSING
[CSD]	C.O./SMOKE DETECTOR W/ DETECTOR BASE
[AIM]	MONITOR MODULE
[AIM-D]	DUAL MONITOR MODULE
[RM]	RELAY MODULE
[HSM]	HORN/STROBE WALL MOUNT
[SSM]	STROBE WALL MOUNT
[SSM-WP]	STROBE WALL MOUNT, WEATHERPROOF
[OS&Y]	OS&Y VALVE
[VS]	VALVE TAMPER SWITCH
[WF]	WATERFLOW SWITCH
[SR]	FIRE SPRINKLER RISER
[ET]	EQUIPMENT TAG
[ELR]	END OF LINE RESISTOR

WIRE	DESCRIPTION
A	#16/2 SLC CABLE - RED
B	#14/2 NAC CABLE - BLUE
C	#18/6 FAA CABLE - RED
D	#16/2 IDC CABLE - RED

NOTES:
 --- 1-HR RATED FIRE WALL

SIGNALING LINE CIRCUIT (SLC) DEVICES	D = SLC DETECTOR CIRCUIT D-# --- DEVICE NUMBER	M = SLC MODULE CIRCUIT M-# --- DEVICE NUMBER			
NOTIFICATION APPLIANCE CIRCUIT (NAC) DEVICES	CEILING WEATHERPROOF --- WP or C	CANDELA RATING xCD --- N = NAC CIRCUIT # Nx-x --- DEVICE NUMBER			
FIRE ALARM CIRCUITS	CABLE QUANTITIES AND TYPES x.x CONDUIT FILL				
CONDUIT FILL INFORMATION: 3/4" CONDUIT - TOTAL INTERNAL DIAMETER = .82" / TOTAL INTERNAL AREA = 0.53 (in.^2)					
CIRCUIT	TYPE	SIZE	COND.	OD DIAMTER (in.)	AREA (in.^2)
A	FPLP	16	2	0.178	0.025
B	FPLP	14	2	0.206	0.033
C	FPLP	18	6	0.208	0.034
D	FPLP	16	2	0.178	0.025
MAXIMUM PERCENTAGE ALLOWABLE FOR 2 OR MORE CONDUCTORS: 40%					

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Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Strubel

AMG

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ARCHITECT STAMP	CONSULTANT STAMP
<i>[Architect Stamp]</i>	<i>[Consultant Stamp]</i>

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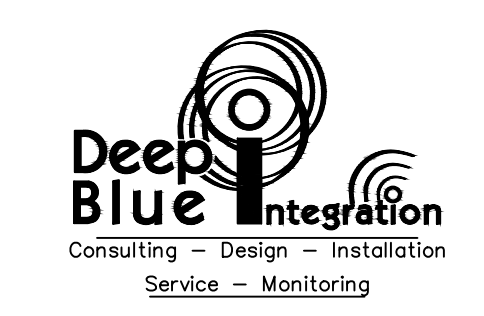
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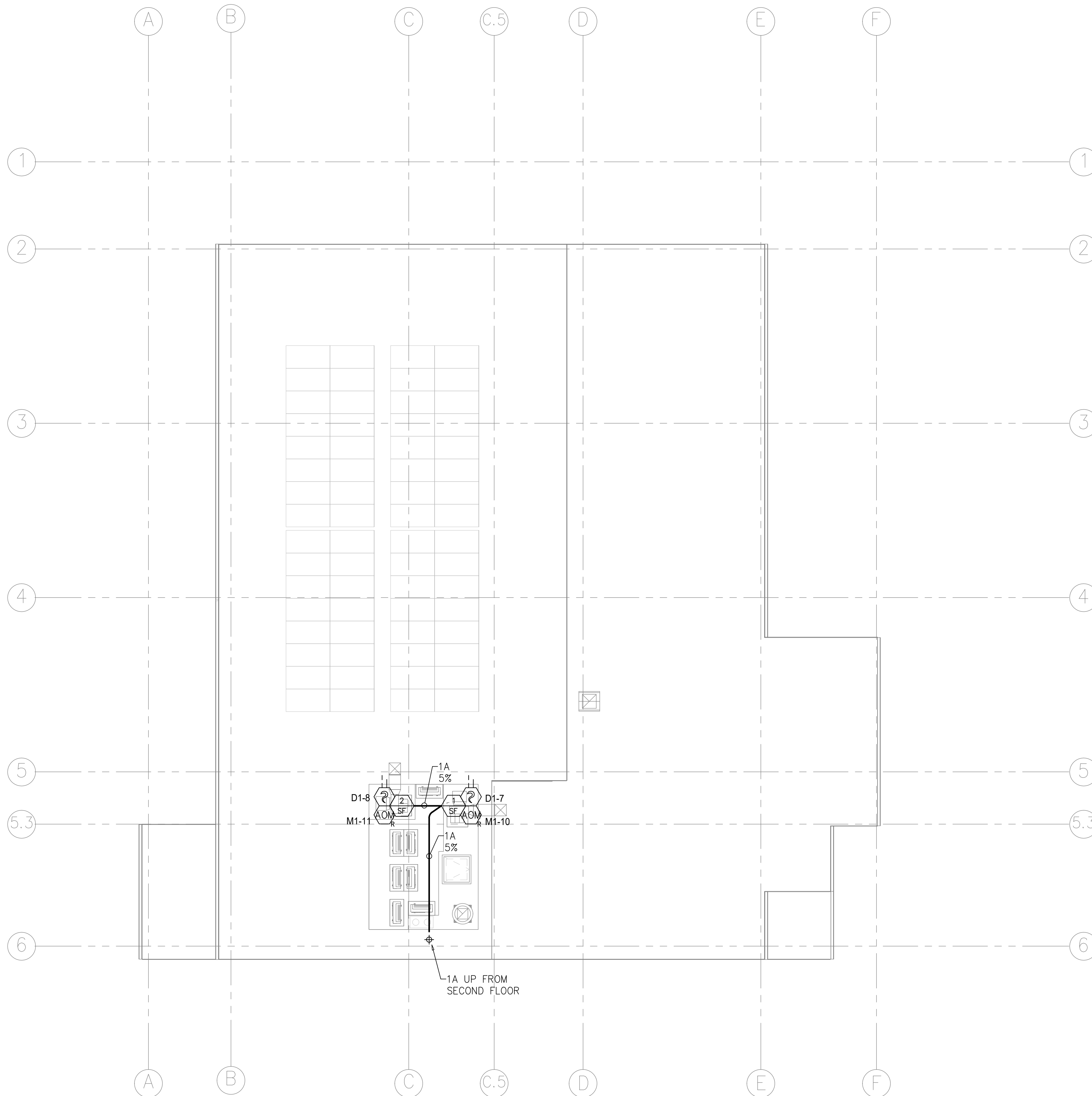
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SHEET TITLE
LEVEL 02 - FIRE ALARM PLAN

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.
FA-103
DATE: DECEMBER 22, 2022





SYMBOL LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[FAA]	FIRE ALARM ANNUNCIATOR
[DOC]	DOCUMENT BOX
[F]	MANUAL ALARM STATION
[D]	PHOTO SMOKE DETECTOR W/ DETECTOR BASE
[D-H]	DUCT PHOTO SMOKE DETECTOR W/ DETECTOR HOUSING
[D-CO]	C.O./SMOKE DETECTOR W/ DETECTOR BASE
[AIM]	MONITOR MODULE
[AIM-D]	DUAL MONITOR MODULE
[RM]	RELAY MODULE
[H]	HORN/STROBE WALL MOUNT
[S]	STROBE WALL MOUNT
[S-WP]	STROBE WALL MOUNT, WEATHERPROOF
[V-S]	OS&Y VALVE
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WIRE	DESCRIPTION
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 D = SLC DETECTOR CIRCUIT
 D-# = DEVICE NUMBER
 M = SLC MODULE CIRCUIT
 M-# = DEVICE NUMBER

NOTIFICATION APPLIANCE CIRCUIT (NAC) DEVICES
 CEILING
 WEATHERPROOF WP or C
 CANDELA RATING xCD
 N = NAC CIRCUIT #
 Nx-x = DEVICE NUMBER

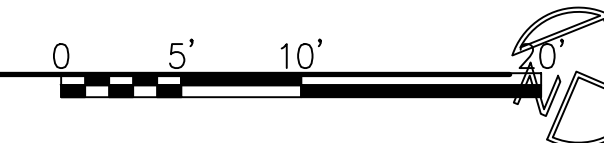
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 CABLE QUANTITIES AND TYPES
 CONDUIT FILL

CONDUIT FILL INFORMATION:
 3/4" CONDUIT - TOTAL INTERNAL DIAMETER = .82" / TOTAL INTERNAL AREA = 0.53 (in.^2)

CIRCUIT	TYPE	SIZE	COND.	OD DIAMETER (in.)	AREA (in.^2)
A	FPLP	16	2	0.178	0.025
B	FPLP	14	2	0.206	0.033
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D	FPLP	16	2	0.178	0.025

MAXIMUM PERCENTAGE ALLOWABLE FOR 2 OR MORE CONDUCTORS: 40%

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



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ARCHITECT STAMP	CONSULTANT STAMP
[Architect Stamp: Alper Gurbul, License No. C-22474, State of California]	[Consultant Stamp]

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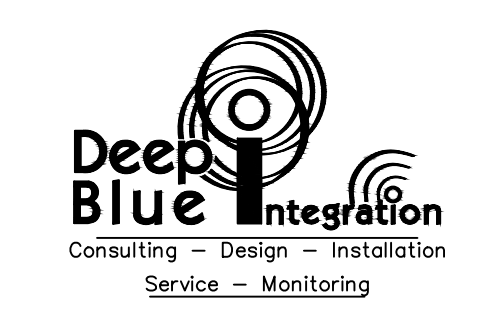
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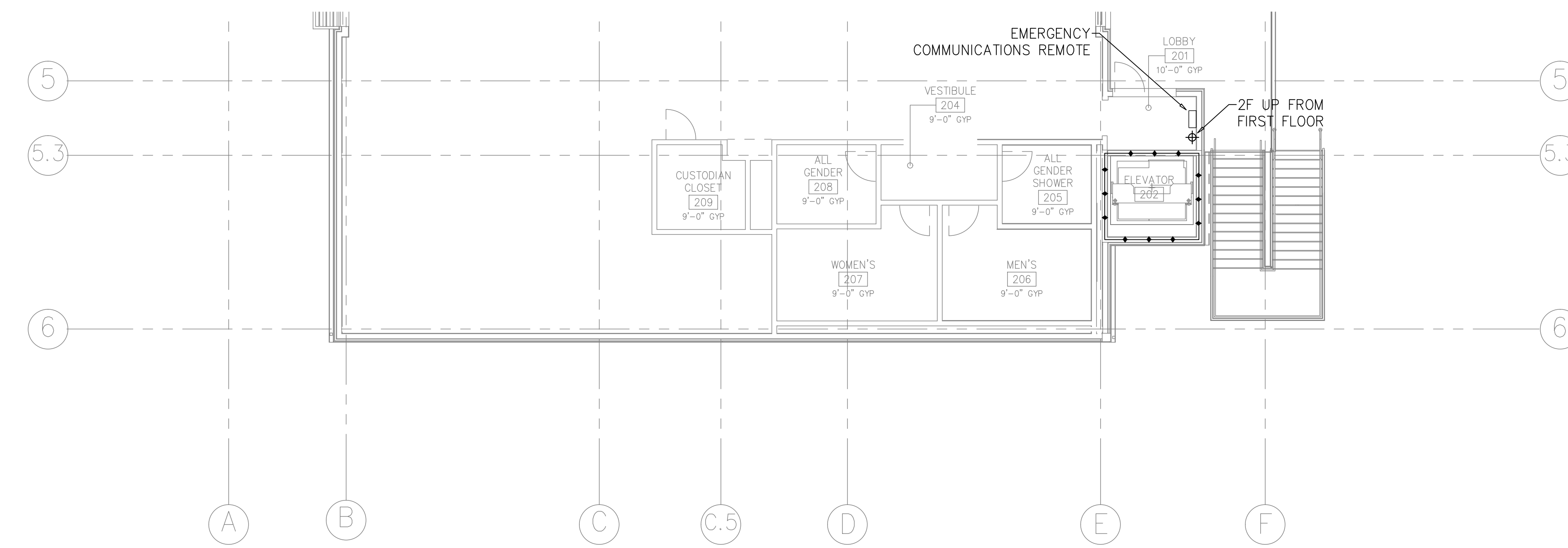
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SHEET TITLE
ROOF - FIRE ALARM PLAN

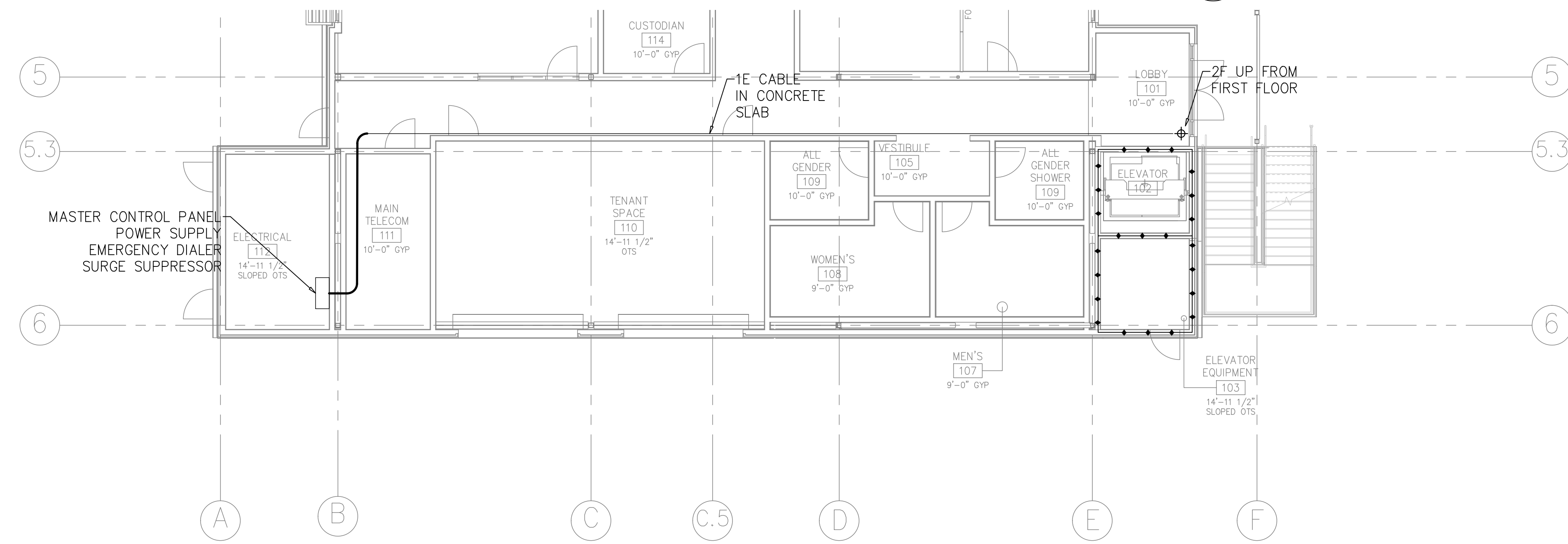
DRAWN BY: [Blank] JOB NUMBER: 21179.01

SHEET NO.
FA-104
 DATE: DECEMBER 22, 2022





LEVEL 02 - EMERGENCY TWO-WAY COMMUNICATION SYSTEM
SCALE: 1/8" = 1'-0"



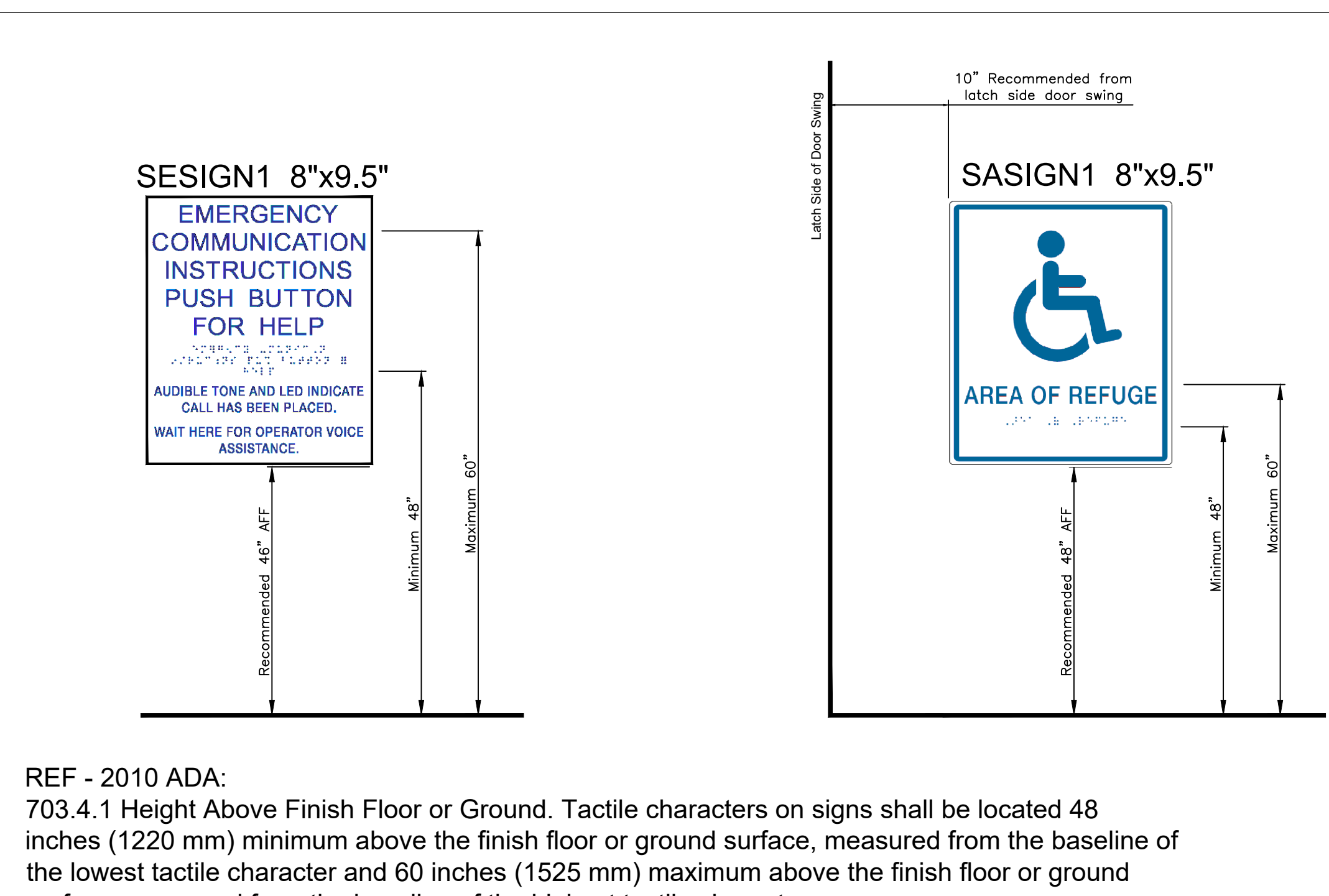
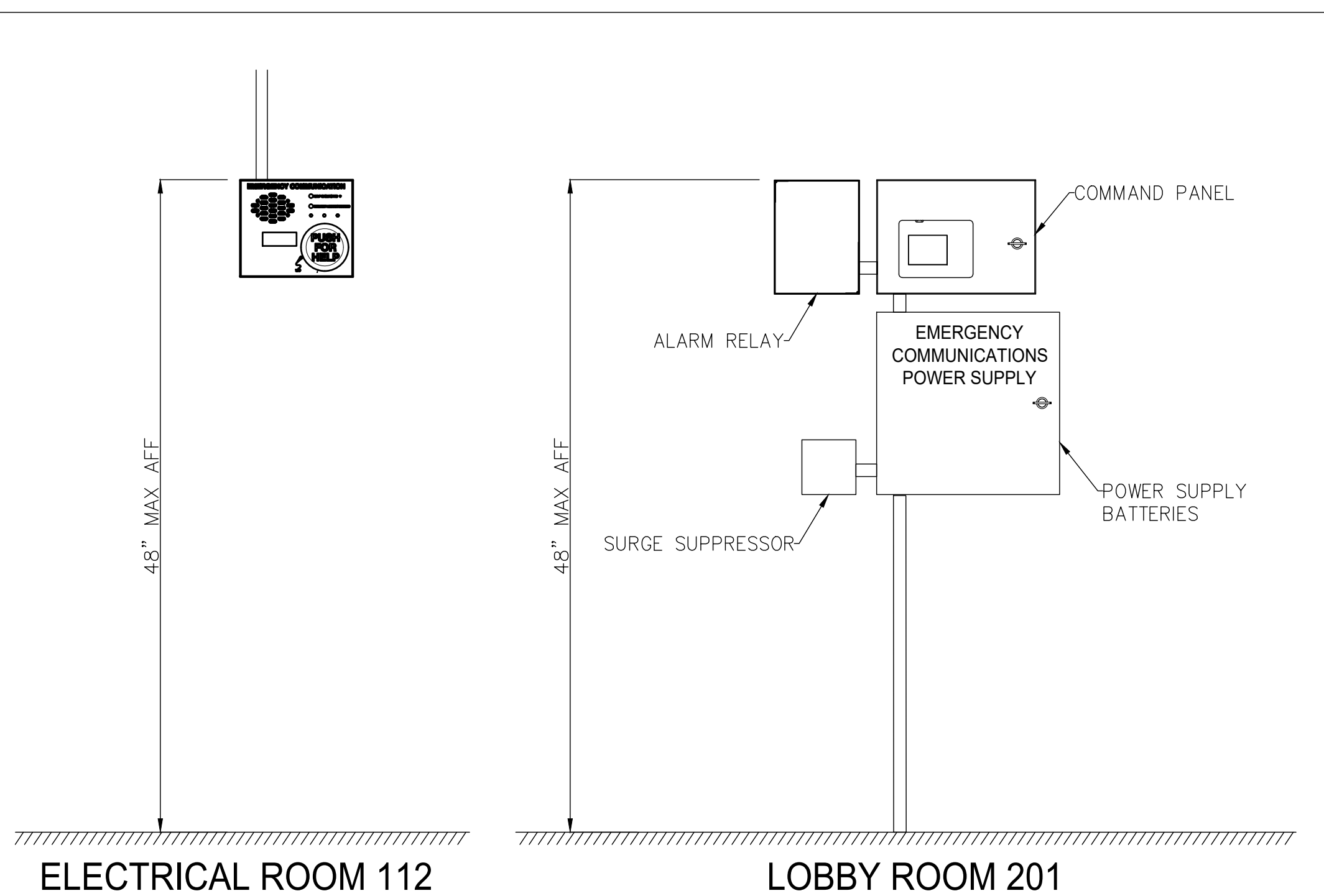
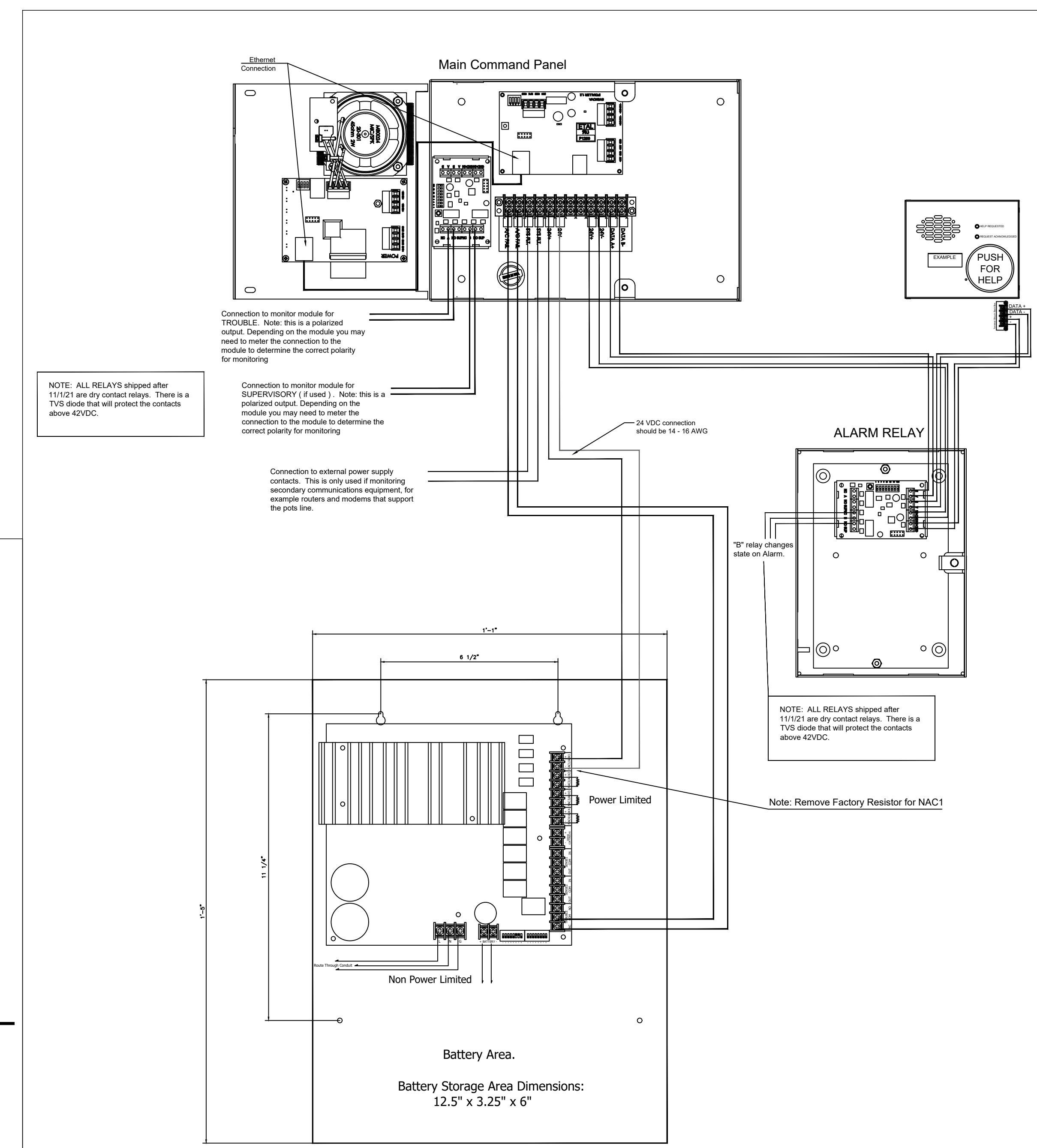
LEVEL 01 - EMERGENCY TWO-WAY COMMUNICATION SYSTEM
SCALE: 1/8" = 1'-0"

EMERGENCY TWO-WAY COMMUNICATION SYSTEM BILL OF MATERIAL		
(N)QUANTITY	DESCRIPTION	MANUFACTURER & MODEL#
1	MASTER COMMAND PANEL	SPACE AGE SM30B
1	EMERGENCY COMMUNICATION DIALER	SPACE AGE SCEB
1	EMERGENCY COMMUNICATION REMOTE	SPACE AGE SRBB
1	ALARM RELAY	SPACE AGE SREALMRLY
1	POWER SUPPLY	SPACE AGE SPS6AB
1	SURGE SUPPRESSOR	SPACE AGE E120V-GT
2	12V 12AH BATTERIES	POWERSONIC
2	AREA OF REFUGE SIGN	SPACE AGE SASIGN
2	EMERGENCY COMMUNICATION SYSTEM SIGN	SPACE AGE SESIGN

EMERGENCY TWO-WAY COMMUNICATION WIRE LEGEND		
WIRE	DESCRIPTION	MANUFACTURER & MODEL#
E	#18/4 FPLP EMERGENCY TWO-WAY COMMUNICATION CIRCUIT	WCW 762340
F	#18/2 FPLP EMERGENCY TWO-WAY COMMUNICATION CIRCUIT (2-HR CABLE)	WCW 762360FPLP-CI



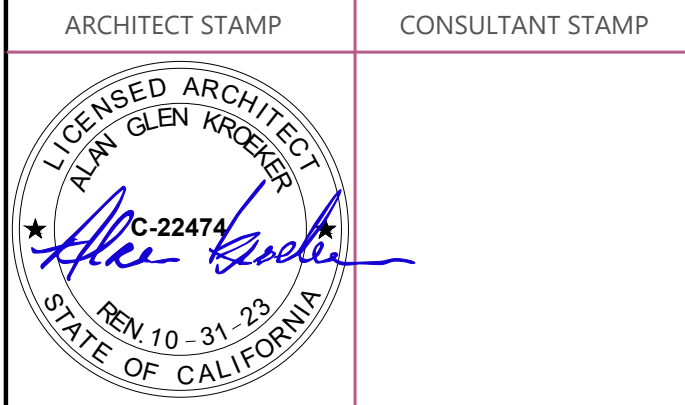
- CONSULTANTS
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DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR., SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324



1 PANEL ELEVATION DETAILS
SCALE: NONE

2 SIGNAGE DETAILS
SCALE: NONE

3 COMMAND PANEL WIRING DETAIL
SCALE: NONE



NO.	DATE	DESCRIPTION
1	12-22-22	95% CD

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SAN LUIS OBISPO
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CAL POLY TECH PARK - PHASE 2
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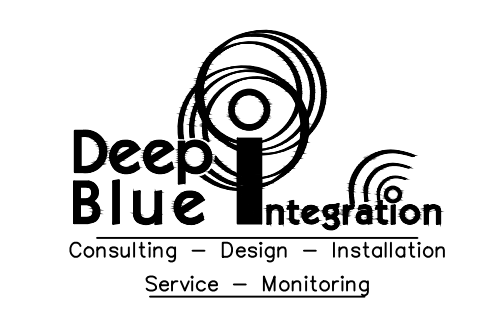
SHEET TITLE
EMERGENCY TWO-WAY COMMUNICATION SYSTEM

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.

FA-105

DATE: DECEMBER 22, 2022



NOTIFIER by Honeywell **System Power Requirements**

Notifier NFS2-640 Fire Alarm Control Panel

Protected Premises: CAL POLY TECH PARK - PHASE 2 Date: 4/10/2023
 Address: MOUNT BISHOP ROAD
 City: SAN LUIS OBISPO State: CA Zip: 93405

Prepared By: DEEP BLUE INTEGRATION - B. LARSEN Phone: 888.600.0324
 Address: 3442 EMPRESA DR. STE. A Email:
 City: SAN LUIS OBISPO State: CA Zip: 93401

AC Branch Current Requirements **5.00** AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load **0.67** Amps

Current load on the primary power supply during non-alarm conditions.

Primary Alarm Load **3.43** Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements **20.70** Amp Hours

Total Secondary Load from the calculation table below.

Current Draw	Time (hours)	Total (AH)
Secondary Standby Load 0.707 A	24 hours	16.96
Secondary Alarm Load 3.468 A	0.84 hours	2.92
Total Secondary Load		17.25
		Derating factor x 1.2
Secondary Load Requirements (Amp Hours)		20.70 AH

Battery Selection **26** Amp Hours

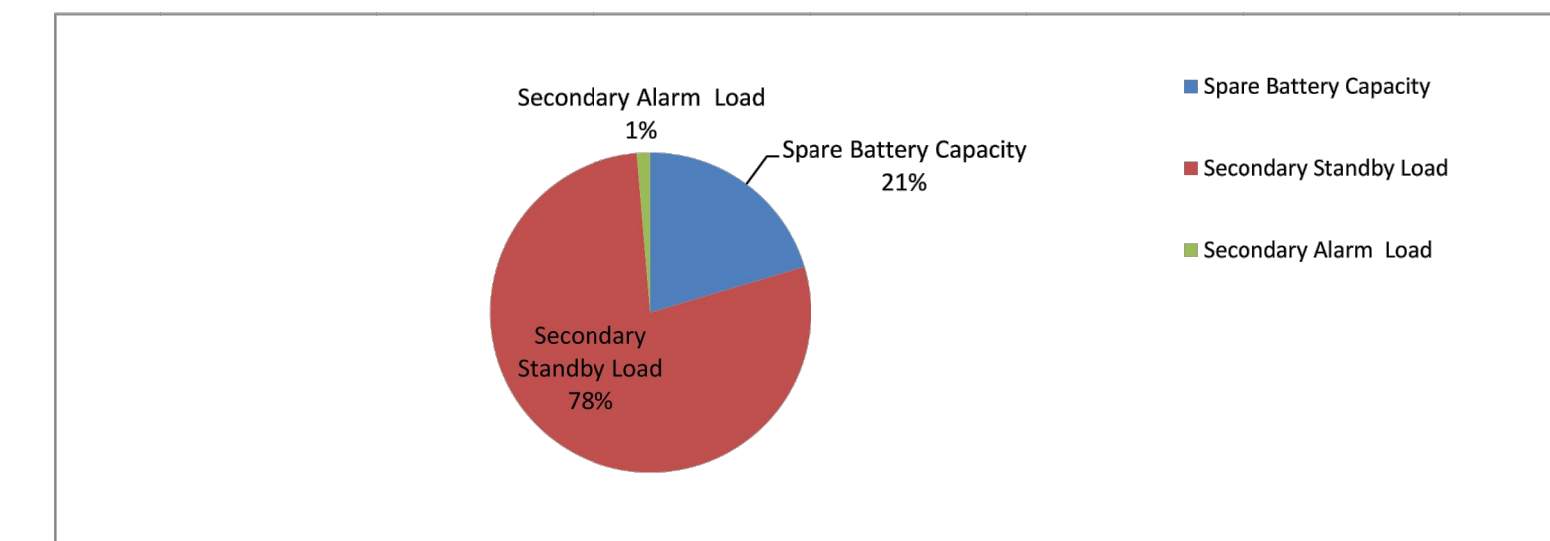
Select batteries from the list below.

26 AH BAT-12260 Battery (12 volt)

Two Four (two 12VDC sets in parallel)

Battery Distribution Chart

Shows amp-hour distribution of your selections.



- Comments**
- Batteries will fit in the FACP cabinet.
 - Selected battery size meets secondary load requirements.
 - The selected batteries (26AH) are within the charger range of this power supply (18-200AH).

Spare Battery Capacity	5.30	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	20.35	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.35	Secondary Alarm Load (AH) * Derating Factor

NOTIFIER by Honeywell **Device Current Draw**

NFS2-640 Fire Alarm Control Panel

Quantity x (device current draw) = total current draw per device (in amps)

Part Number	Qty	Primary Non-Alarm	Primary Alarm	Secondary Non-Alarm
CPUL2-640	1	x (0.25000) = 0.25000	x (0.25000) = 0.25000	x (0.25000) = 0.25000
CPS-24	1	x (0.00000) = 0.00000	x (0.00000) = 0.00000	x (0.04000) = 0.04000
# of NACs in use	4	x (0.03500) = 0.14000	x (0.03500) = 0.14000	x (0.03500) = 0.14000
FDU-60	1	x (0.08430) = 0.08430	x (0.08430) = 0.08430	x (0.08430) = 0.08430
UDACT-2 Communicator	1	x (0.05200) = 0.05200	x (0.08700) = 0.08700	x (0.05200) = 0.05200
NBG-12LX	1	x (0.00038) = 0.00038	x (0.00000) = 0.00000	x (0.00038) = 0.00038
FSP-951	5	x (0.00020) = 0.00100	x (0.00000) = 0.00000	x (0.00020) = 0.00100
FSP-951R	2	x (0.00000) = 0.00000	x (0.00000) = 0.00000	x (0.00000) = 0.00000
FCO-951	1	x (0.00450) = 0.00450	x (0.00000) = 0.00000	x (0.00450) = 0.00450
FMM-1	1	x (0.00035) = 0.00035	x (0.00000) = 0.00000	x (0.00035) = 0.00035
FDM-1	3	x (0.00075) = 0.00225	x (0.00000) = 0.00000	x (0.00075) = 0.00225
FM1-1	6	x (0.00028) = 0.00168	x (0.00000) = 0.00000	x (0.00028) = 0.00168
B300-6	6	x (0.00000) = 0.00000	x (0.00000) = 0.00000	x (0.00000) = 0.00000
DNRW	2	x (0.00000) = 0.00000	x (0.00000) = 0.00000	x (0.00000) = 0.00000
SLC Loop Device Activation Current	1	x (0.00000) = 0.00000	x (0.20000) = 0.20000	x (0.00000) = 0.00000
P2WL15	8	x (0.00000) = 0.00000	x (0.07300) = 0.58400	x (0.00000) = 0.00000
P2WL30	6	x (0.00000) = 0.00000	x (0.09400) = 0.56400	x (0.00000) = 0.00000
P2WL75	4	x (0.00000) = 0.00000	x (0.13900) = 0.55600	x (0.00000) = 0.00000
P2WL95	2	x (0.00000) = 0.00000	x (0.16000) = 0.32000	x (0.00000) = 0.00000
SWL15	7	x (0.00000) = 0.00000	x (0.04300) = 0.30100	x (0.00000) = 0.00000
SWK15	2	x (0.00000) = 0.00000	x (0.06600) = 0.13200	x (0.00000) = 0.00000
B465	1	x (0.15000) = 0.15000	x (0.23000) = 0.23000	x (0.15000) = 0.15000
Total (Amperes):		0.6667 A	3.4283 A	0.7067 A

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x (3.42830) = 3.42830
CPS-24	1	x (0.04000) = 0.04000
Total (Amperes):		3.4683 A

FACU BATTERY CALCULATION

Fire Alarm NAC Voltage Drop Calculation

Project Name: Cal Poly Tech Park Phase 2
 Date: 12/21/2022
 NAC Designation: NAC 2
 NAC Area: FLOOR 1 NORTH

Nominal System Voltage: 20
 Minimum Device Voltage: 17
 Total Circuit Current: 0.653

Distance from source to 1st device: 82
 Wire Gauge for balance of circuit: 14

Device Number	Distance from previous device	At Device	Drop from source	Percent Drop	Current in amps.	Device Model #	Device Type	Candela Rating
N2-01	82	19.67	0.329	1.64%	0.054	System Sensor P2WL	HR/ST	15
N2-02	28	19.57	0.432	2.16%	0.054	System Sensor P2WL	HR/ST	15
N2-03	25	19.48	0.515	2.58%	0.074	System Sensor P2WL	HR/ST	30
N2-04	36	19.38	0.620	3.10%	0.054	System Sensor P2WL	HR/ST	30
N2-05	43	19.28	0.724	3.62%	0.121	System Sensor P2WL	HR/ST	75
N2-06	20	19.24	0.758	3.79%	0.054	System Sensor P2WL	HR/ST	15
N2-07	25	19.21	0.792	3.96%	0.074	System Sensor P2WL	HR/ST	30
N2-08	30	19.18	0.820	4.10%	0.074	System Sensor P2WL	HR/ST	30
N2-09	39	19.16	0.837	4.19%	0.074	System Sensor P2WL	HR/ST	30
Totals	328	End of Line Voltage	19.16	0.653				

CIRCUIT IS WITHIN LIMITS

Standard Wire Resistance in Ohms per 1000 feet.
 18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
 18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

NAC-2 VOLTAGE DROP

Fire Alarm NAC Voltage Drop Calculation

Project Name: Cal Poly Tech Park Phase 2
 Date: 12/21/2022
 NAC Designation: NAC 4
 NAC Area: FLOOR 2 NORTH

Nominal System Voltage: 20
 Minimum Device Voltage: 17
 Total Circuit Current: 0.526

Distance from source to 1st device: 66
 Wire Gauge for balance of circuit: 14

Device Number	Distance from previous device	At Device	Drop from source	Percent Drop	Current in amps.	Device Model #	Device Type	Candela Rating
N4-01	66	19.79	0.213	1.07%	0.142	System Sensor P2WL	HR/ST	95
N4-02	61	19.64	0.357	1.78%	0.142	System Sensor P2WL	HR/ST	95
N4-03	126	19.46	0.544	2.72%	0.121	System Sensor P2WL	HR/ST	75
N4-04	51	19.42	0.582	2.91%	0.121	System Sensor P2WL	HR/ST	75
Totals	304	End of Line Voltage	19.42	0.526				

CIRCUIT IS WITHIN LIMITS

Standard Wire Resistance in Ohms per 1000 feet.
 18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
 18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

NAC-4 VOLTAGE DROP

Fire Alarm NAC Voltage Drop Calculation

Project Name: Cal Poly Tech Park Phase 2
 Date: 12/21/2022
 NAC Designation: NAC 1
 NAC Area: FLOOR 1 SOUTH

Nominal System Voltage: 20
 Minimum Device Voltage: 17
 Total Circuit Current: 0.572

Distance from source to 1st device: 41
 Wire Gauge for balance of circuit: 14

Device Number	Distance from previous device	At Device	Drop from source	Percent Drop	Current in amps.	Device Model #	Device Type	Candela Rating
N1-01	41	19.86	0.144	0.72%	0.054	System Sensor P2WL	HR/ST	15
N1-02	38	19.74	0.265	1.32%	0.121	System Sensor P2WL	HR/ST	75
N1-03	63	19.58	0.418	2.09%	0.054	System Sensor P2WL	HR/ST	15
N1-04	19	19.54	0.458	2.29%	0.054	System Sensor P2WL	ST	15
N1-05	23	19.50	0.501	2.50%	0.043	System Sensor SWL	ST	15
N1-06	13	19.48	0.521	2.61%	0.043	System Sensor SWL	ST	15
N1-07	28	19.44	0.558	2.79%	0.043	System Sensor SWK	ST	15
N1-08	30	19.41	0.590	2.95%	0.054	System Sensor P2WL	HR/ST	15
N1-09	13	19.40	0.599	2.99%	0.074	System Sensor P2WL	HR/ST	30
N1-10	22	19.40	0.605	3.02%	0.043	System Sensor SWL	ST	15
Totals	290	End of Line Voltage	19.40	0.572				

CIRCUIT IS WITHIN LIMITS

Standard Wire Resistance in Ohms per 1000 feet.
 18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
 18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

NAC-1 VOLTAGE DROP

Fire Alarm NAC Voltage Drop Calculation

Project Name: Cal Poly Tech Park Phase 2
 Date: 12/21/2022
 NAC Designation: NAC 3
 NAC Area: FLOOR 2 SOUTH

Nominal System Voltage: 20
 Minimum Device Voltage: 17
 Total Circuit Current: 0.280

Distance from source to 1st device: 122
 Wire Gauge for balance of circuit: 14

Device Number	Distance from previous device	At Device	Drop from source	Percent Drop	Current in amps.	Device Model #	Device Type	Candela Rating
N3-01	122	19.79	0.210	1.05%	0.043	System Sensor SWL	ST	15
N3-02	13	19.77	0.229	1.14%	0.043	System Sensor SWL	ST	15
N3-03	21	19.75	0.254	1.27%	0.054	System Sensor P2WL	HR/ST	15
N3-04	18	19.73	0.269	1.35%	0.043	System Sensor SWL	ST	15
N3-05	25	19.72	0.284	1.42%	0.043	System Sensor SWK	ST	15
N3-06	48	19.70	0.300	1.50%	0.054	System Sensor P2WL	HR/ST	15
Totals	247	End of Line Voltage	19.70	0.280				

CIRCUIT IS WITHIN LIMITS

Standard Wire Resistance in Ohms per 1000 feet.
 18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
 18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

NAC-3 VOLTAGE DROP

Shield 30 Power Calculation Worksheet.

Remote (Standby)	0.015	0.015	0.015
Communicator	0.047	0.047	0.047
ISO	0.025	0.025	0.025
PSN-64 Supply	0.075	0.075	0.075
Rem In Alarm	0.055	0.055	0.055
Communicator Dialing	0.047	0.047	0.047
Supervision Relay	0.014	0.014	0.014
Alarm Relay	0.012	0.012	0.012
SM30 Cmd Panel (Includes Supervision and Alarm Rel)	0.111	0.111	0.111
SM30 Cmd Panel in alarm (Includes Supervision and Alarm Rel)	0.112	0.112	0.112

Wire Type: SOLID FFLP SOLID FFLP SOLID FFLP
 Wire Gauge: 14 16 18

Note: Wire gauge power is referring to the 24V pair. The Data pair should remain as 18 Ga. for best performance.

Number of Remotes	1	1	1
Number of 3.5" SM30 Cmd Panels	1	1	1
Power Supply	1	1	1
Communicator	1	1	1
Isolator	0	0	0

Nominal Voltage	24.0	24.0	24.0
Distance	125	125	125
Wire resistance (Per. Ft.)	0.0025194	0.0041	0.00651
Ohms per 1kt	2.5194	4.1	6.51

Total Resistance Pair of wires	0.62985	1.025	1.6275
Total Current of Remotes in ALARM	0.055	0.055	0.055
Remotes in ALARM + Isolators	0.055	0.055	0.055
Remotes + Isolators in Standby	0.015	0.015	0.015
Complete System - Standby	0.173	0.173	0.173
Complete System - In Alarm	0.214	0.214	0.214
System + Power Supply	0.248	0.248	0.248

Voltage drop	0.1347879	0.056375	0.0895125
End Voltage	23.9	23.9	23.9

Total Amp Hrs Required for run time on battery

battery De-Rating factor = 20%	1.2	1.2	1.2
12 hours	3.5712	3.5712	3.5712
24 hours (+ 15 min of Talk Time)	7.2333	7.2333	7.2333
24 hours (+ 4 hours of Talk)	8.5968	8.5968	8.5968

2-WAY EMERGENCY COMMUNICATION SYSTEM BATTERY CALCULATION



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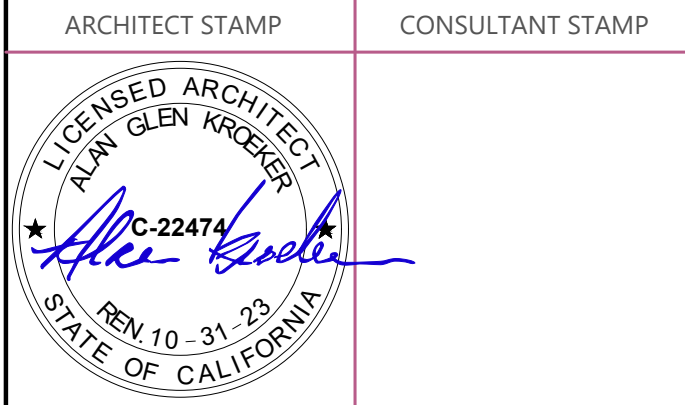
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SHEET TITLE

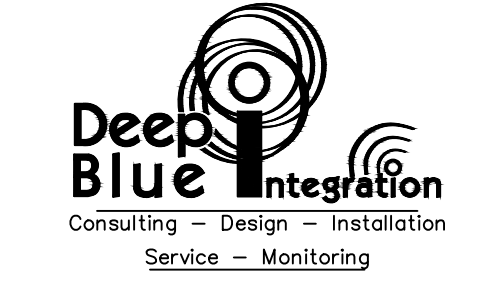
CALCULATIONS

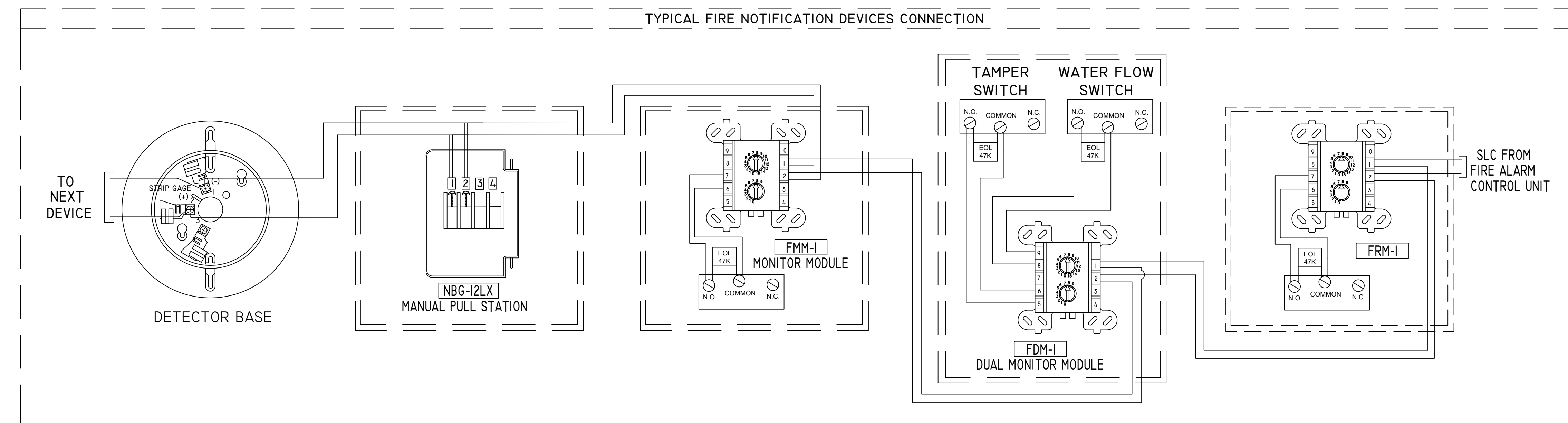
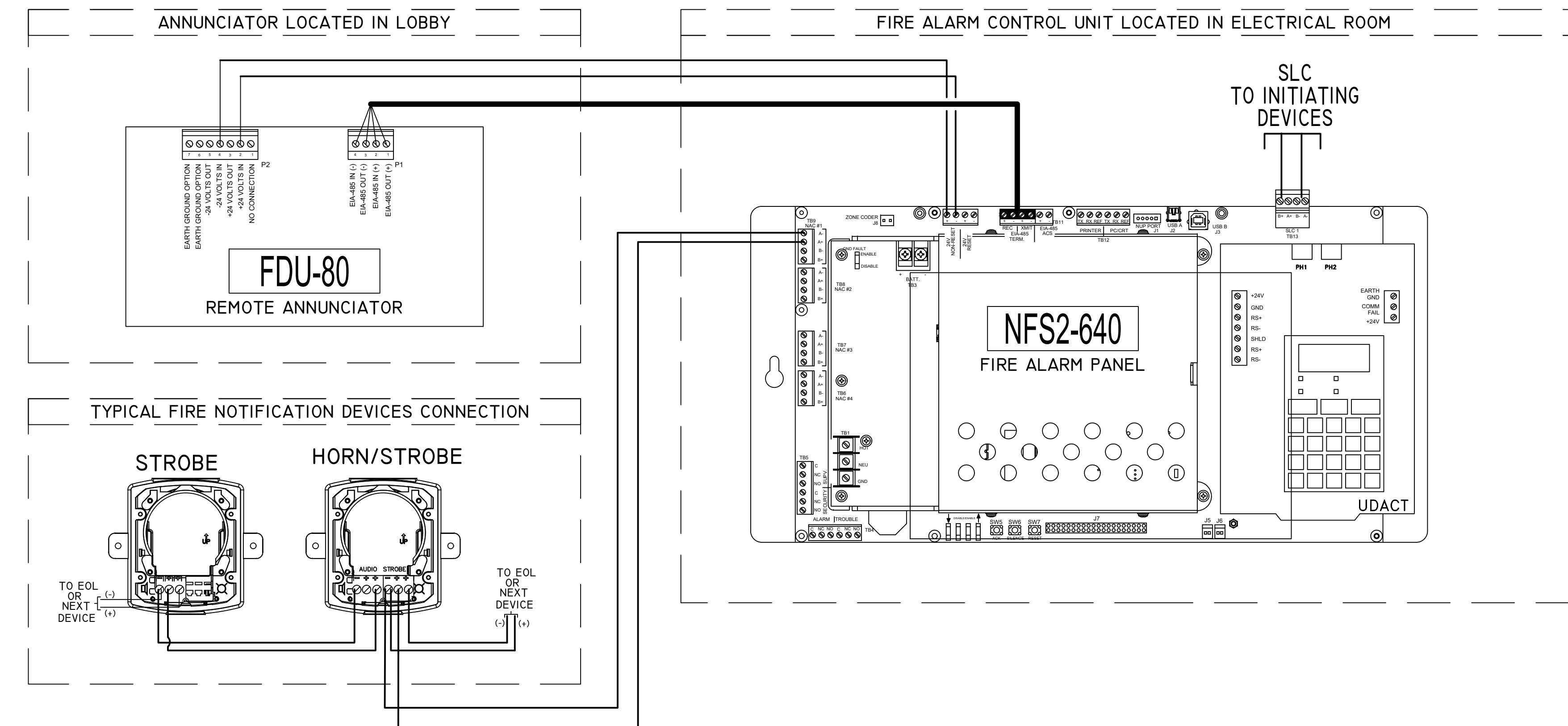
DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.

FA-106

DATE: DECEMBER 22, 2022





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OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

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Approved by: *DS* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Skutaf

AMG

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196

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ARCHITECT STAMP	CONSULTANT STAMP

NO.	DATE	DESCRIPTION
	12-22-22	95% CD

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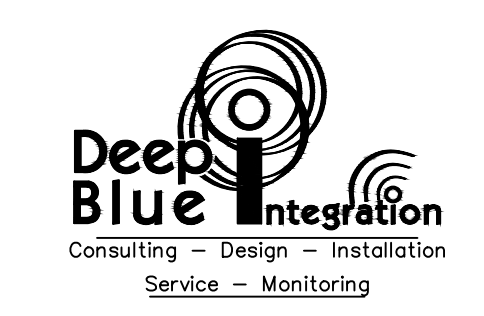
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San Luis Obispo, CA 93401

CAL POLY TECH PARK - PHASE 2
1499 San Luis Drive
San Luis Obispo, CA 93401

SHEET TITLE
POINT-TO-POINT WIRING DIAGRAM

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.
FA-107
DATE: DECEMBER 22, 2022



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OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
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PANIC AND LIFE SAFETY ONLY

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Approved by: *[Signature]* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shufelt

AMG

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540 E. BETTERAVIA ROAD, SUITE D 122
SANTA MARIA, CA 93454
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STRUCTURAL ENGINEER
ALFA FIRE UNLIMITED
1119 GARDEN STREET
SANTA BARBARA, CA 93101
TEL (805) 963-1210

M. E. P. ENGINEER
ALFATECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
TEL (626) 803-0005

FIRE PROTECTION ENGINEER
650 SWEENEY LANE
SAN LUIS OBISPO, CA 93401
TEL (805) 541-2527

FIRE ALARM ENGINEER
DEEP BLUE INTEGRATION INC.
3442 EMPRESA DR., SUITE C
SAN LUIS OBISPO, CA 93401
TEL (888) 600-0324

ARCHITECT STAMP CONSULTANT STAMP

[Professional Seal: Alana Fire, State of California, License No. 22474]

NO.	DATE	DESCRIPTION
1	12-22-22	95% CD

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93401

CAL POLY TECH PARK - PHASE 2
1499 San Luis Drive
San Luis Obispo, CA 93401

SHEET TITLE

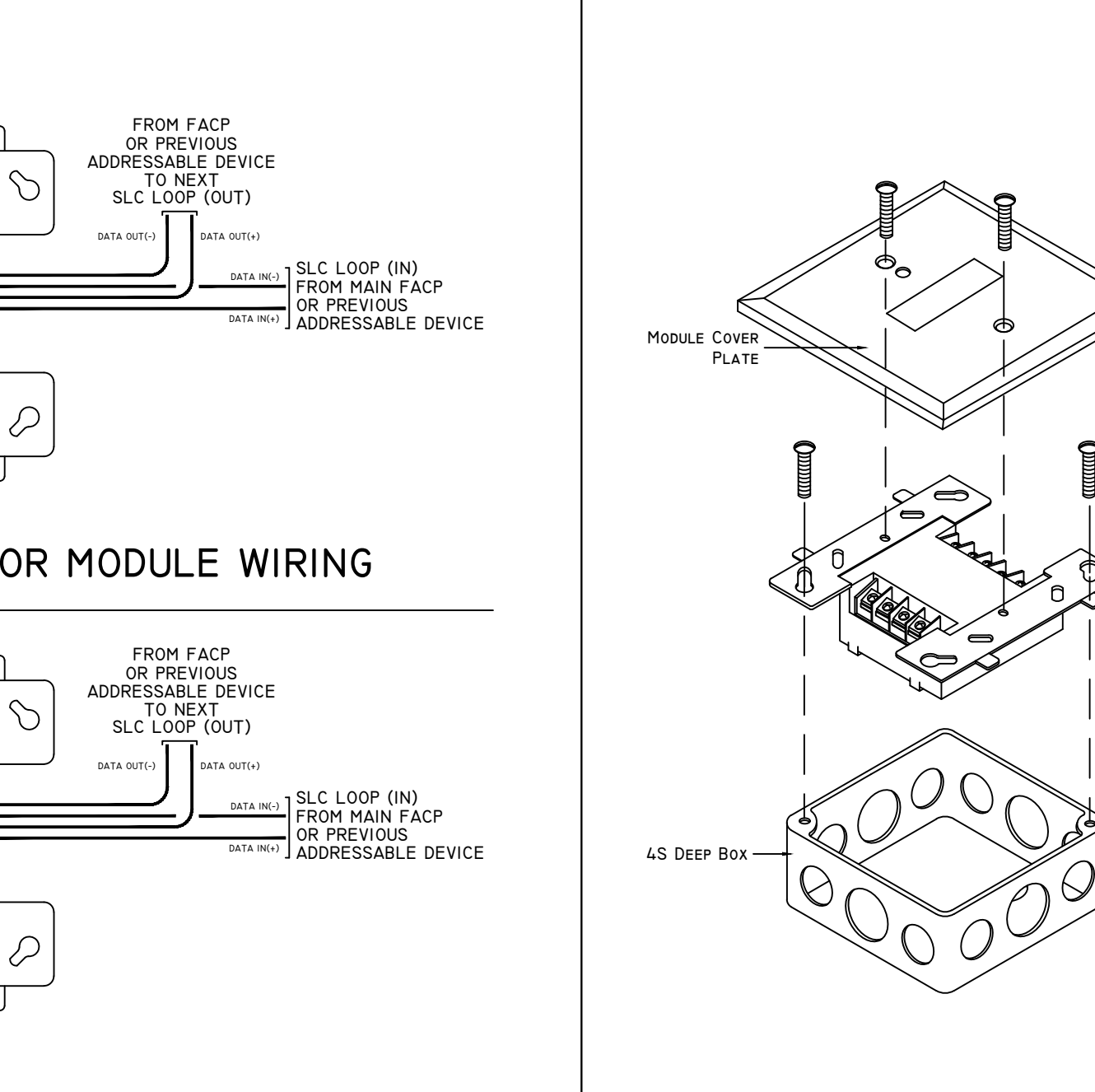
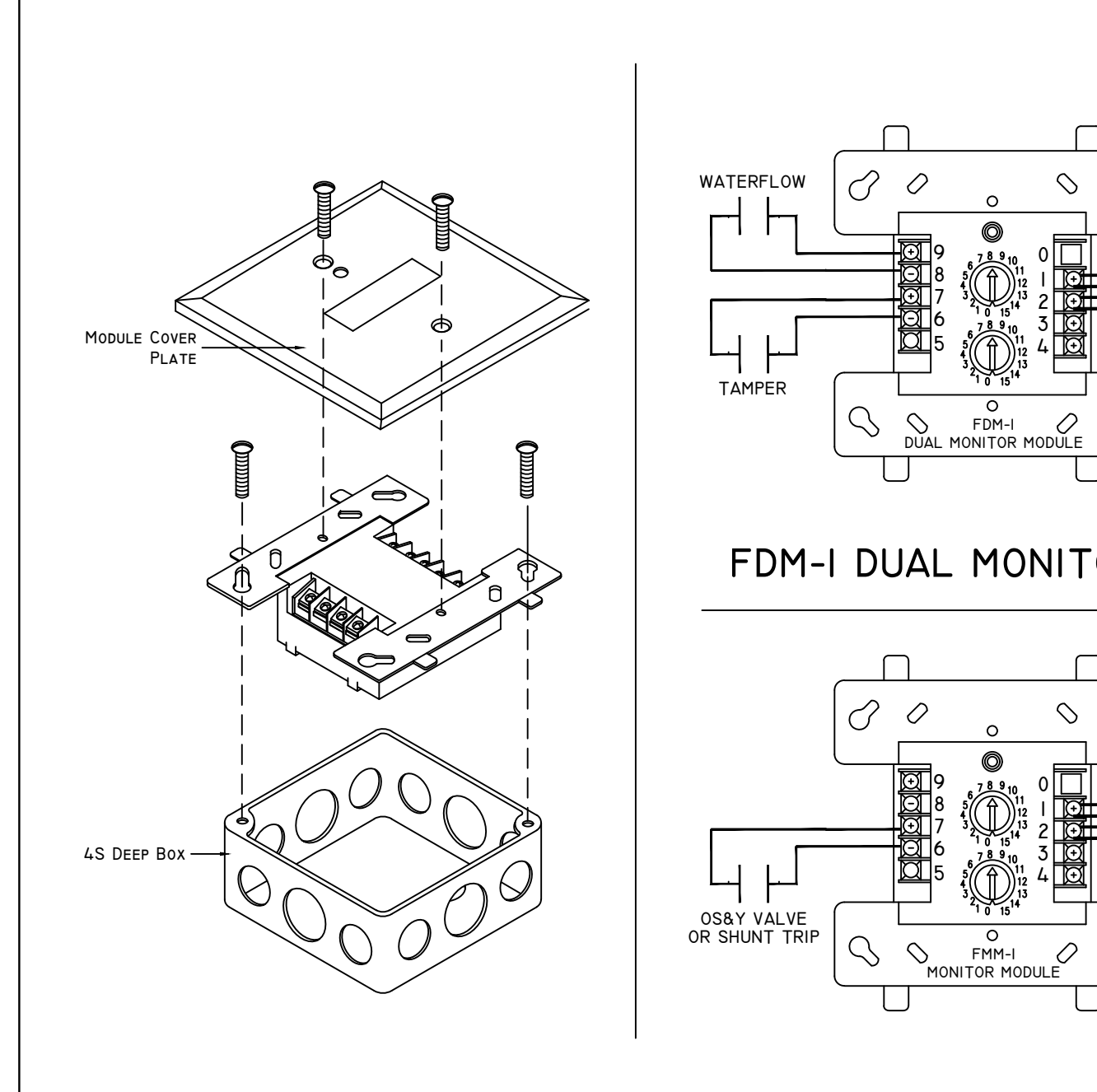
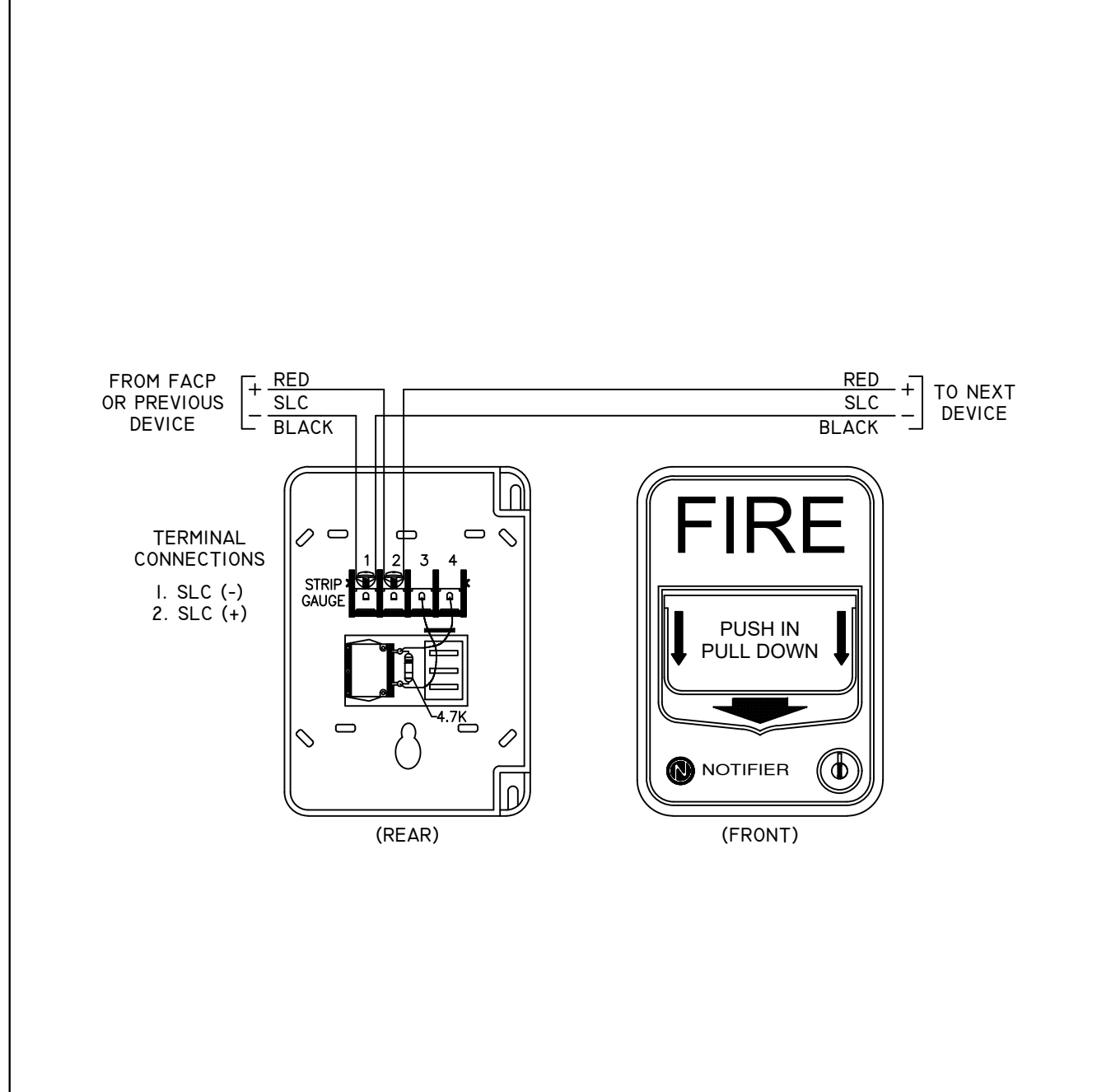
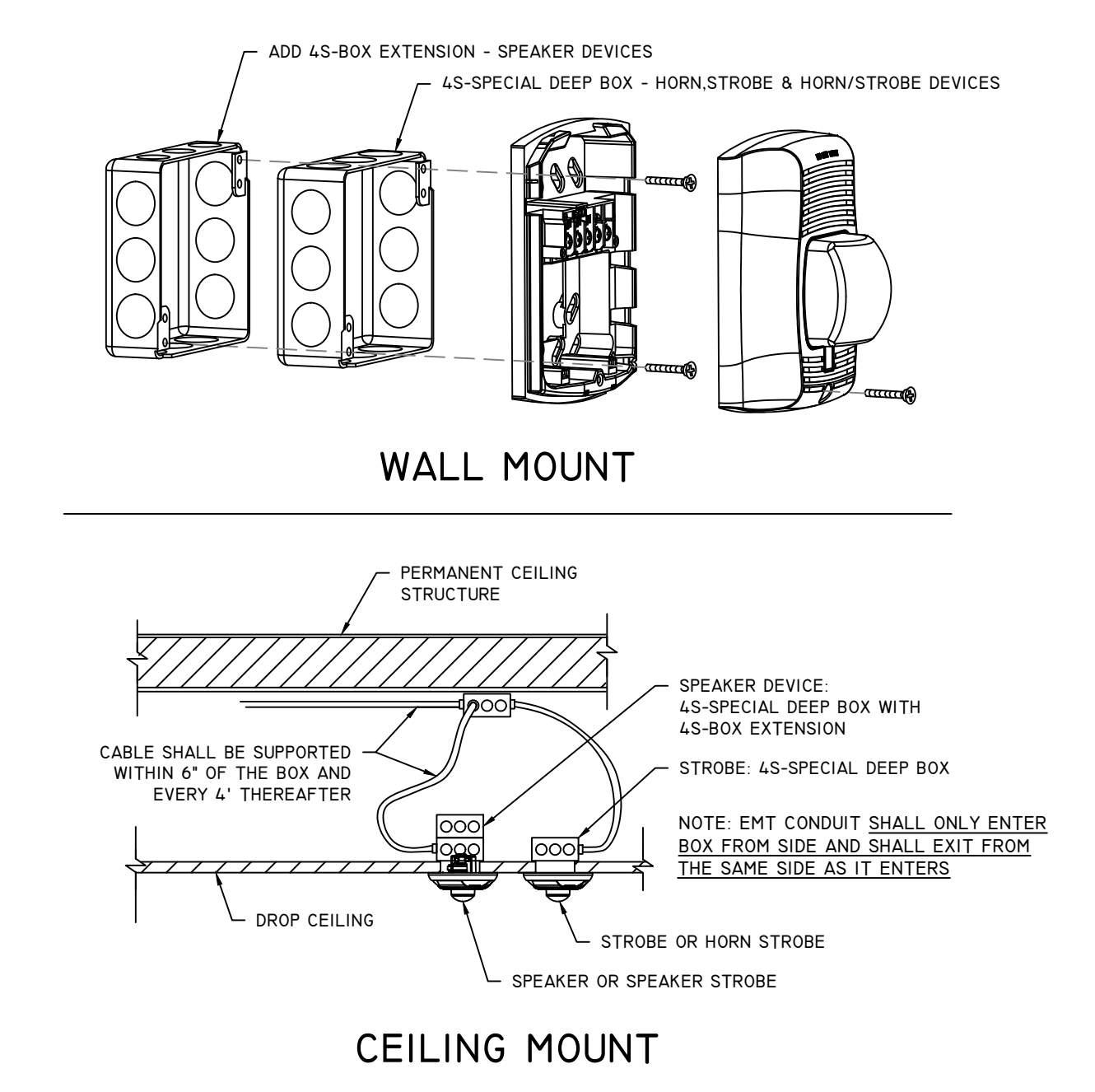
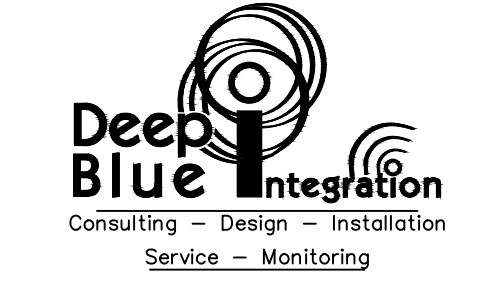
DETAILS

DRAWN BY: JOB NUMBER: 21179.01

SHEET NO.

FA-108

DATE: DECEMBER 22, 2022

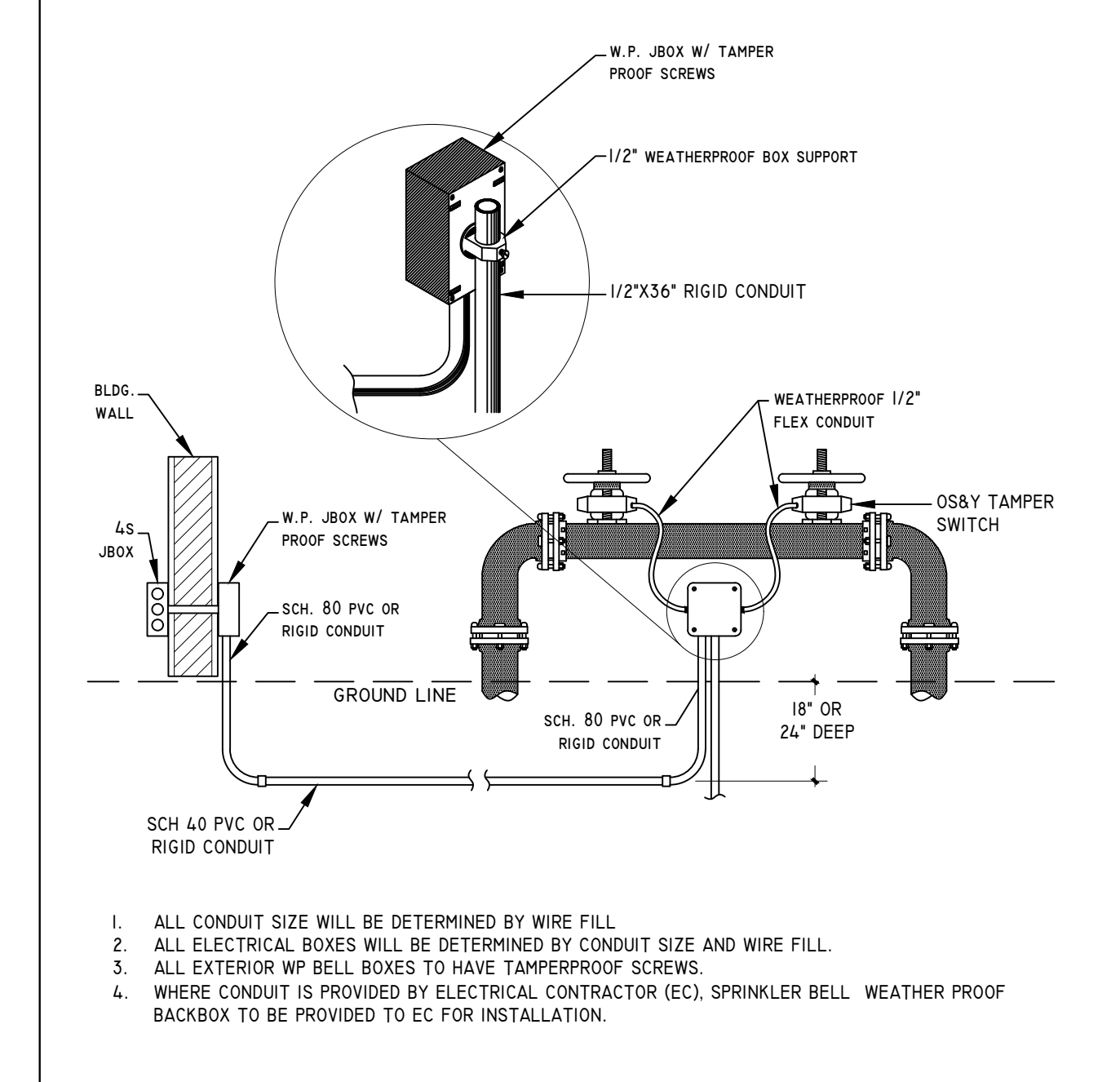
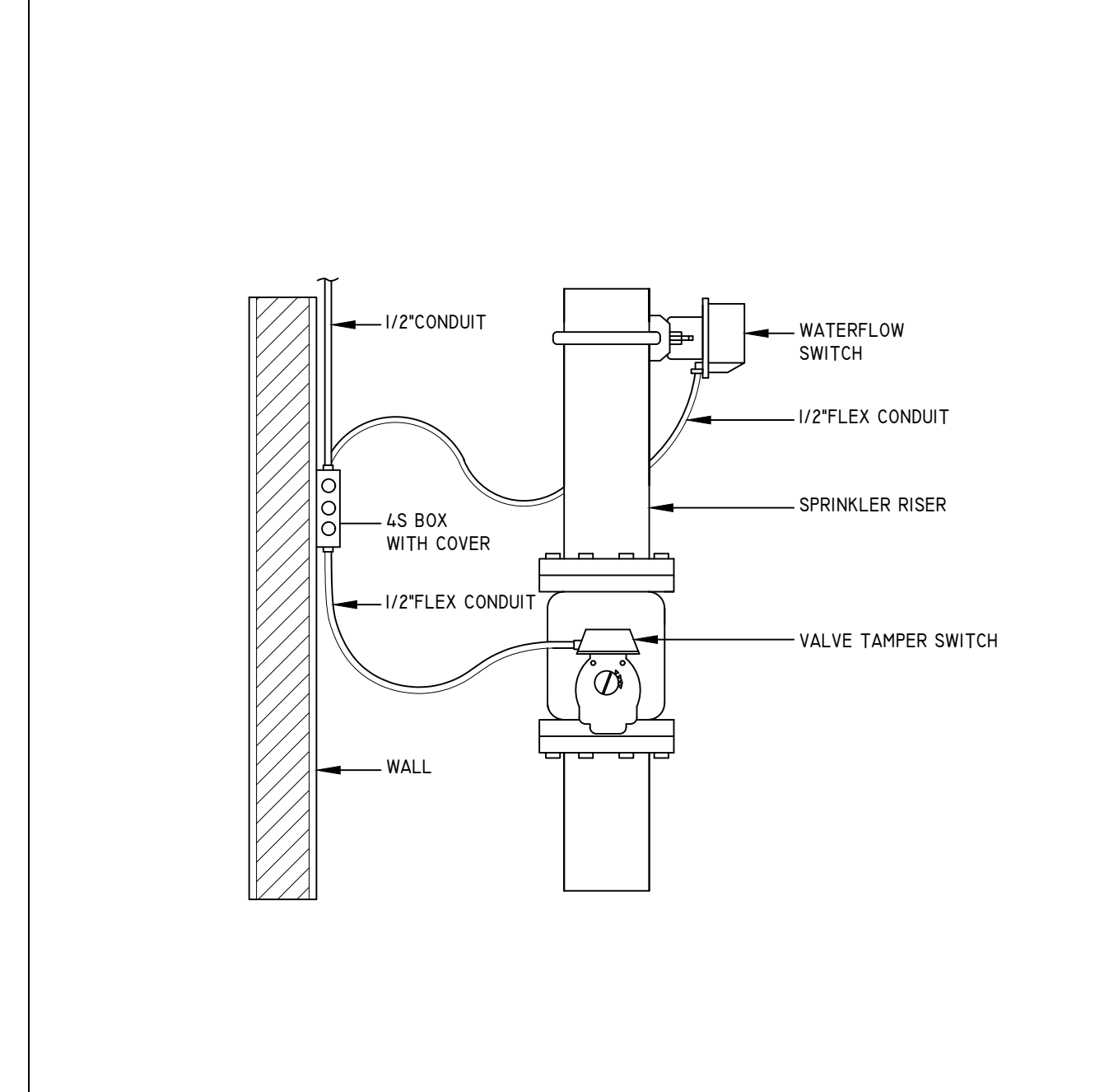
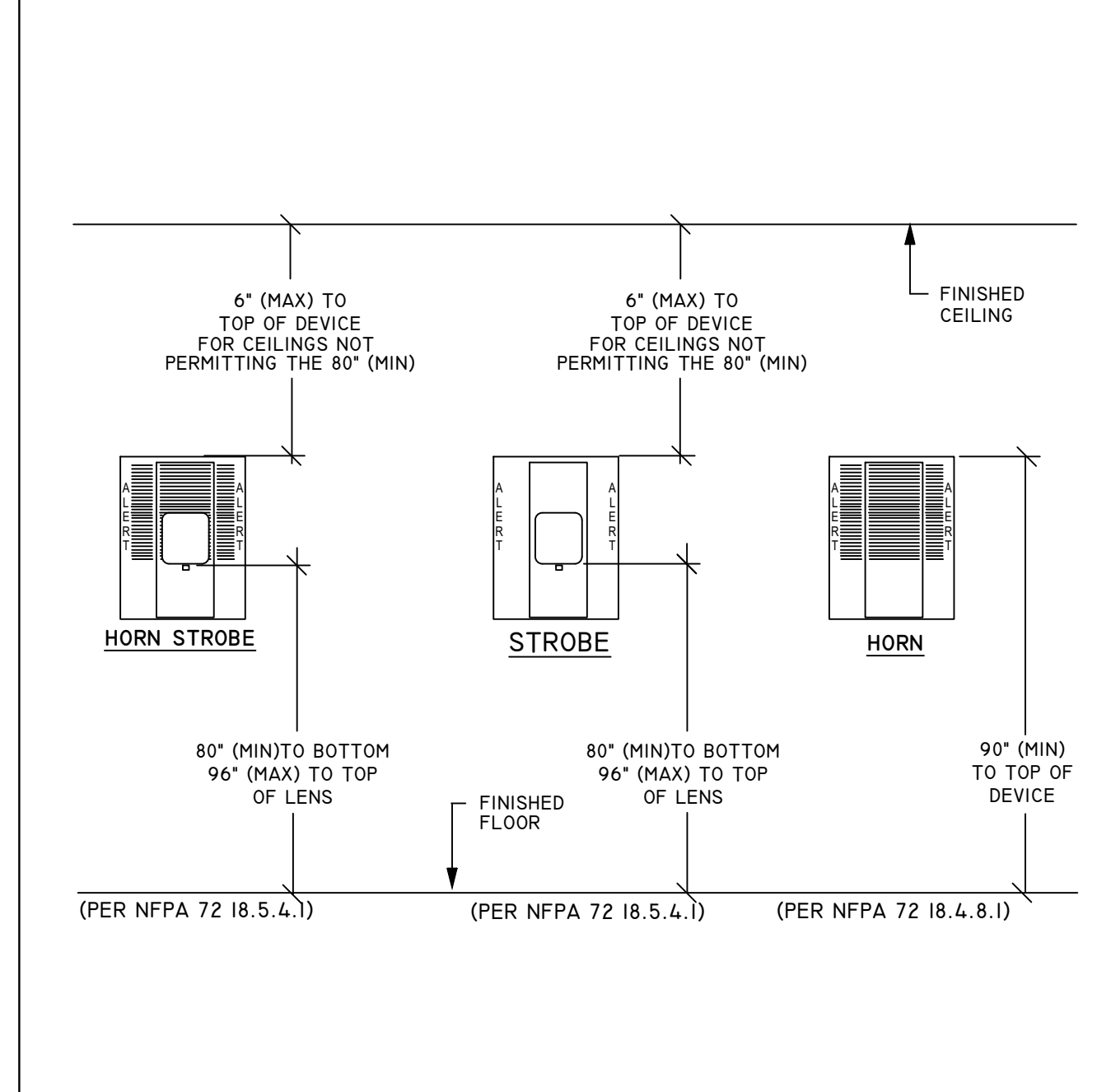
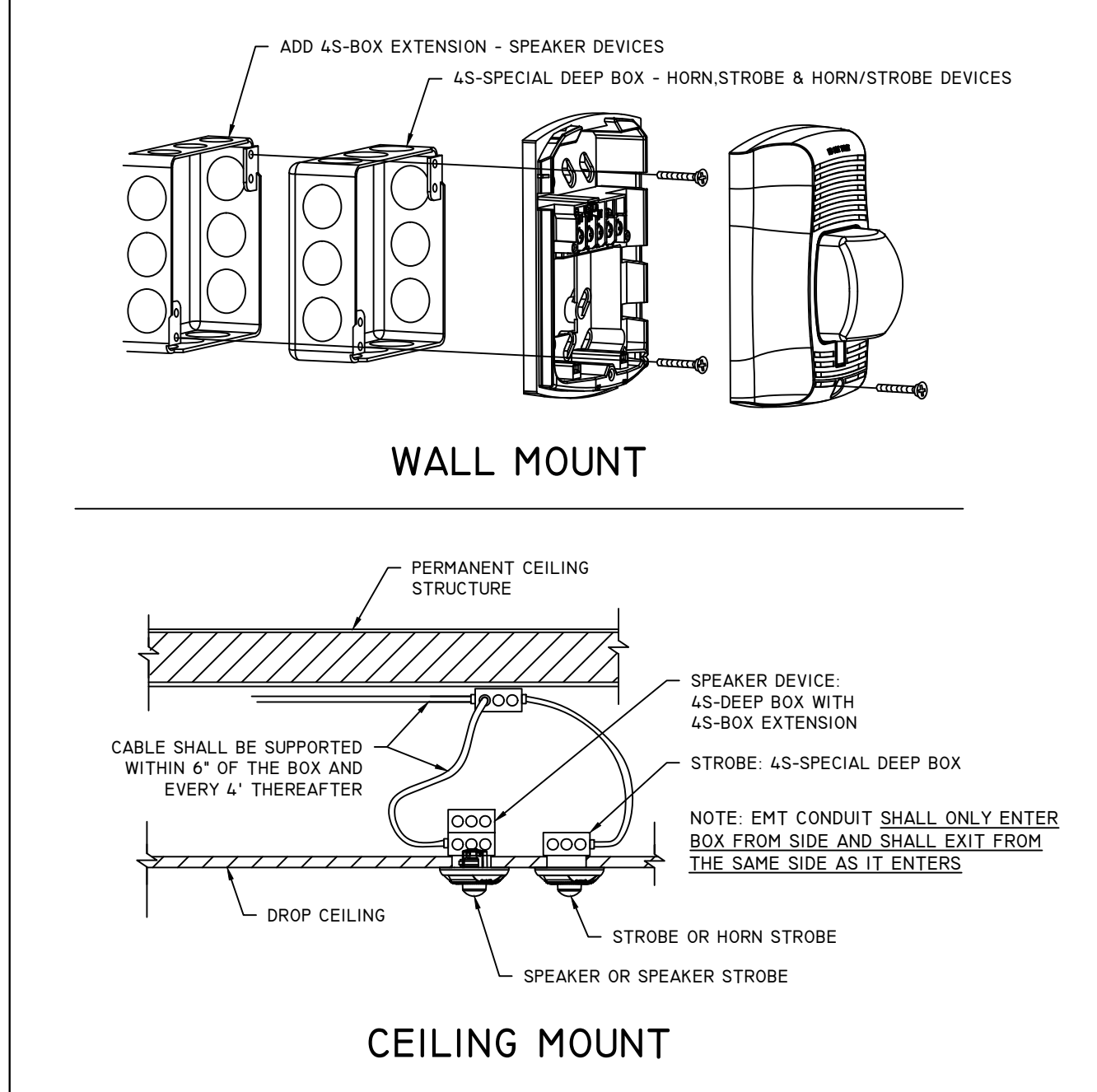
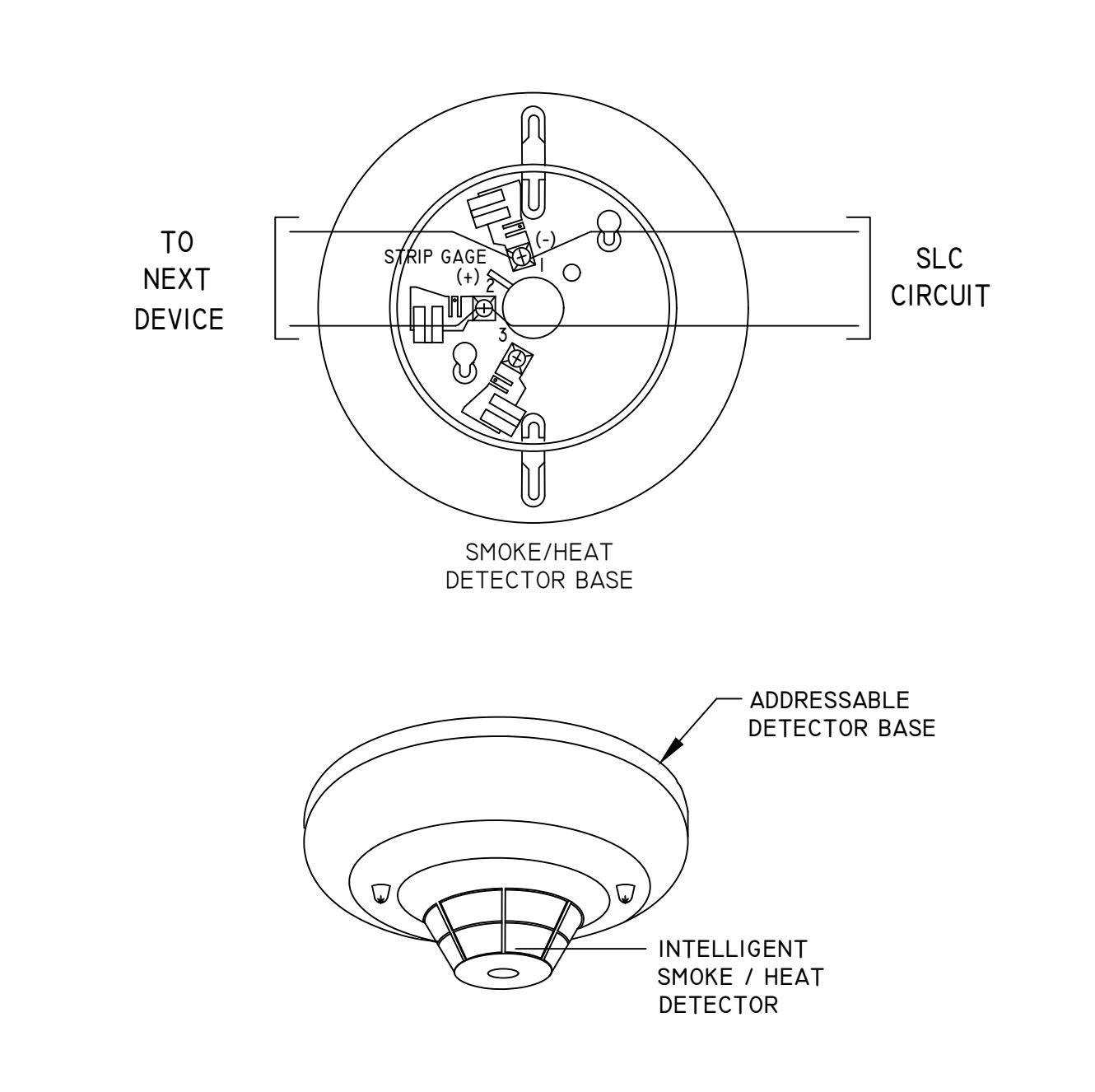


4 A/V WALL & CEILING MOUNT DETAIL NOT TO SCALE

3 ADDRESSABLE MANUAL PULL STATION NOT TO SCALE

2 FMM & FDM MONITOR MODULES NOT TO SCALE

1 FRM CONTROL AND RELAY MODULES NOT TO SCALE



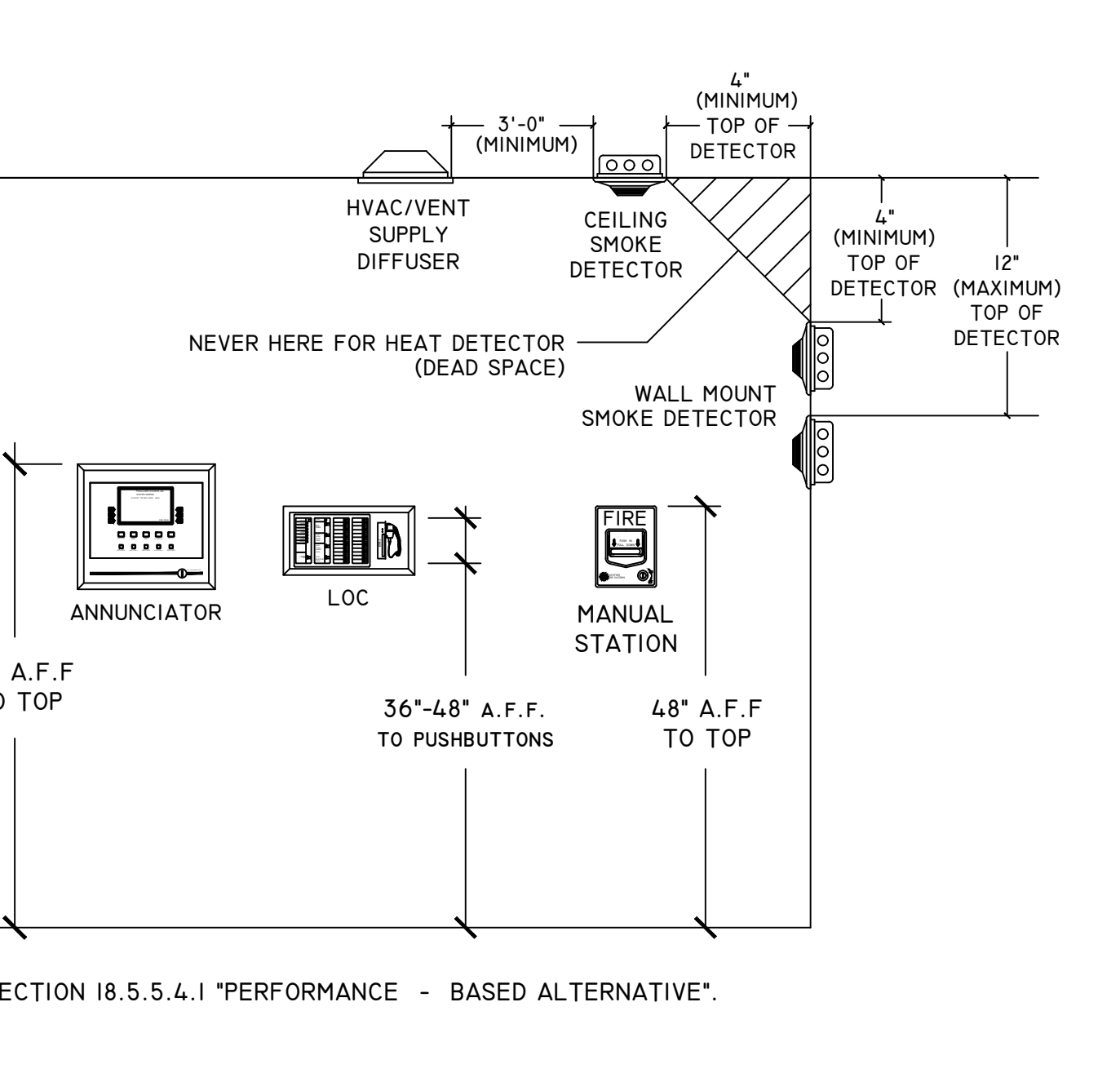
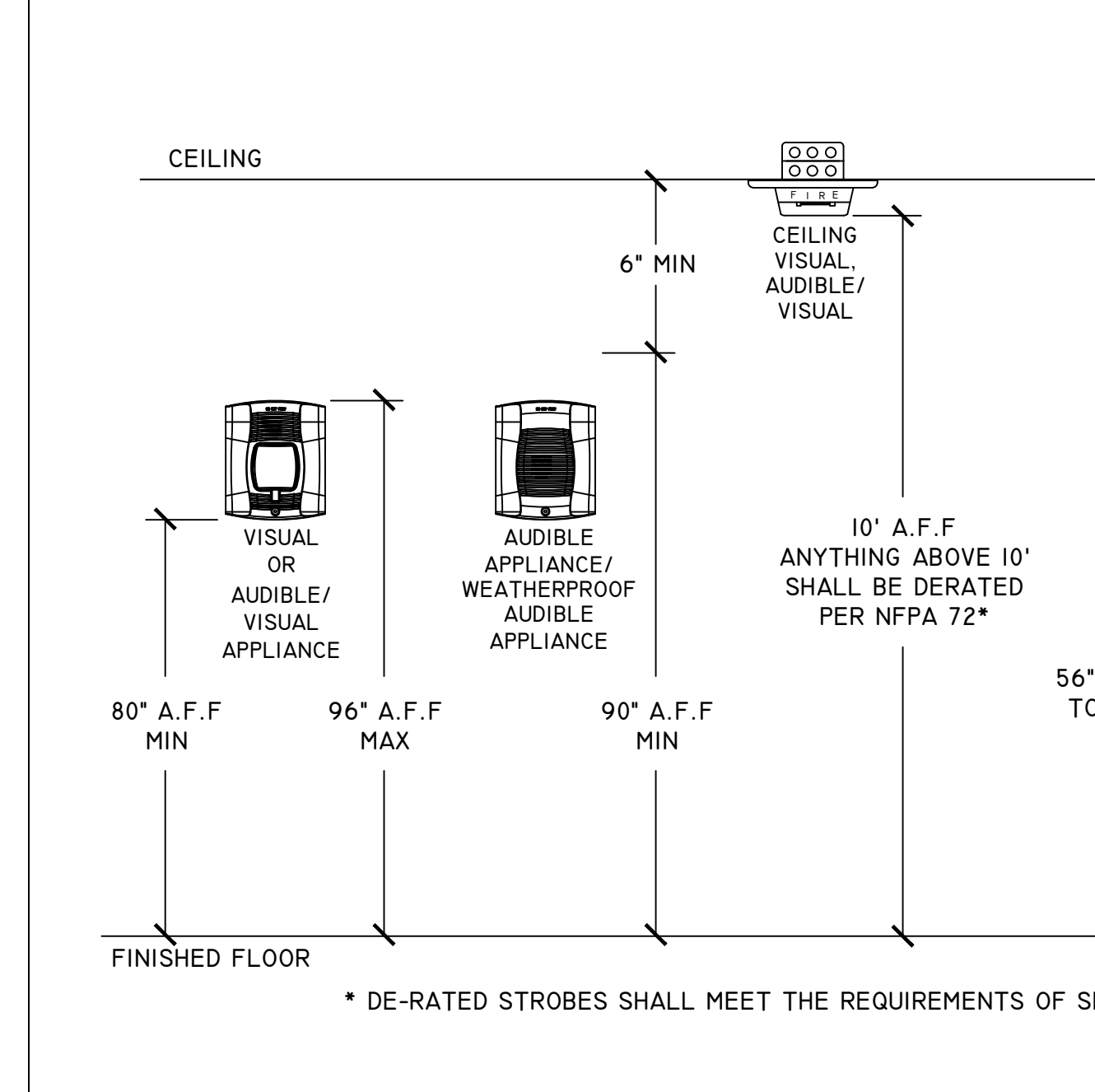
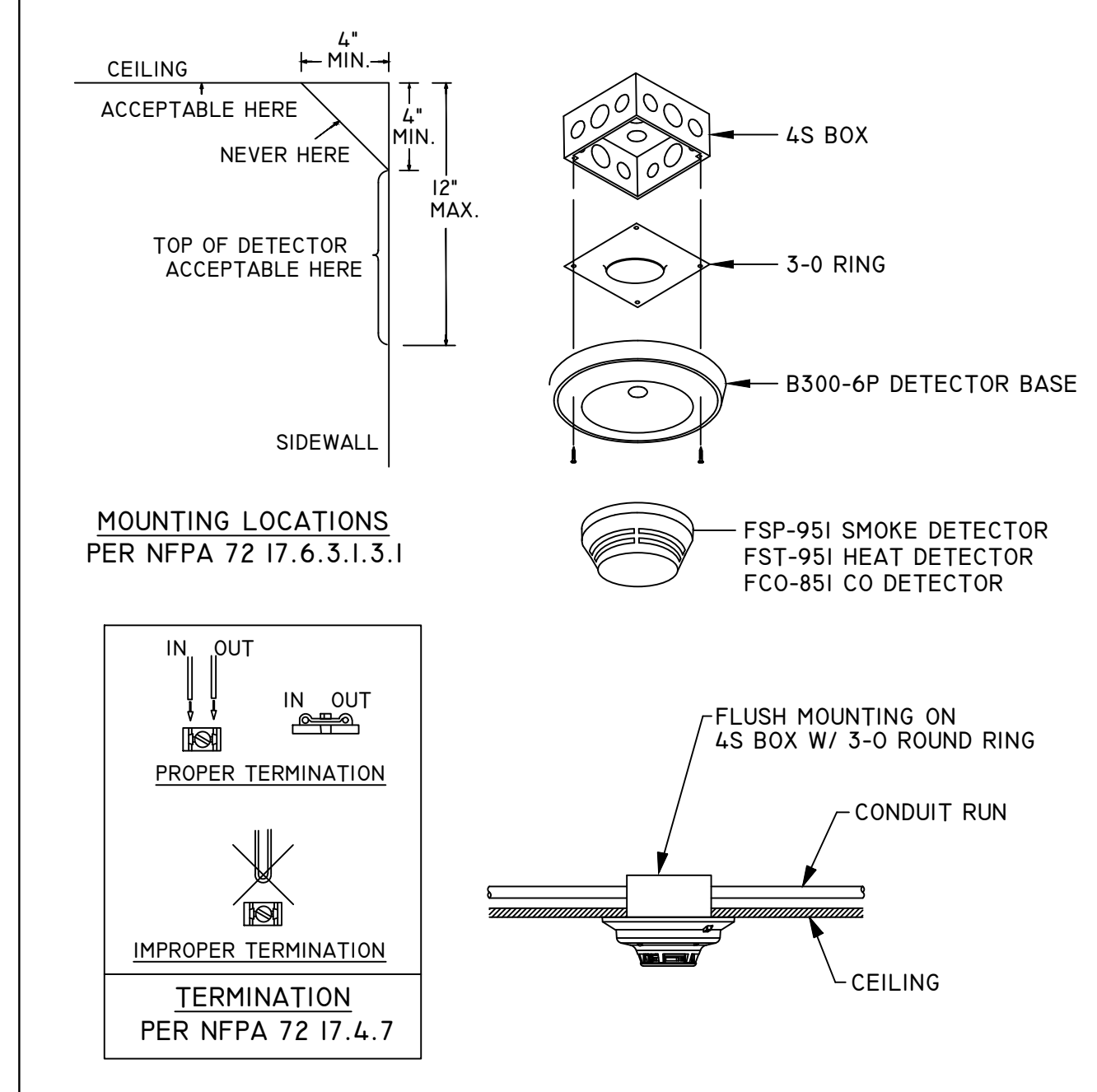
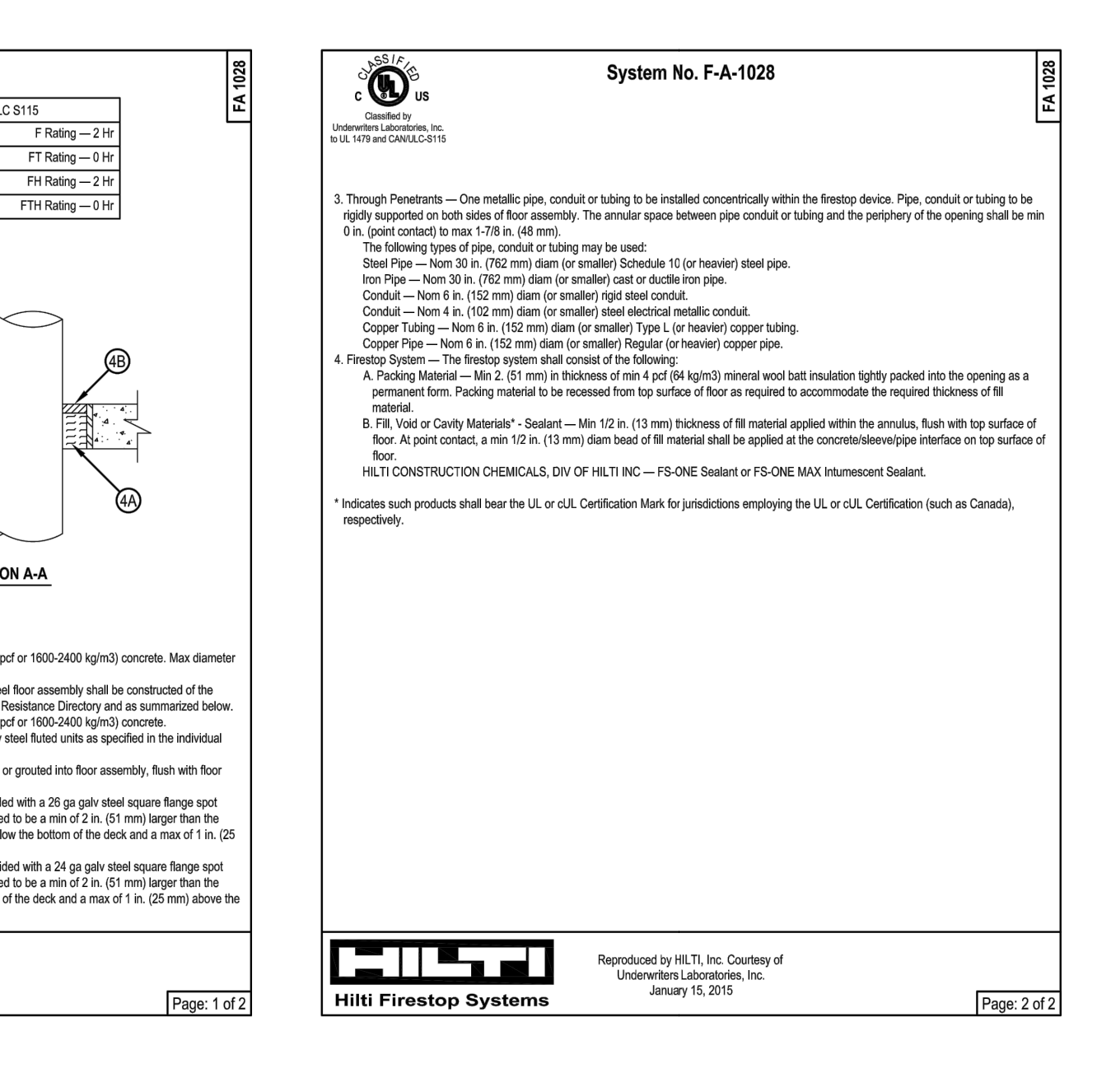
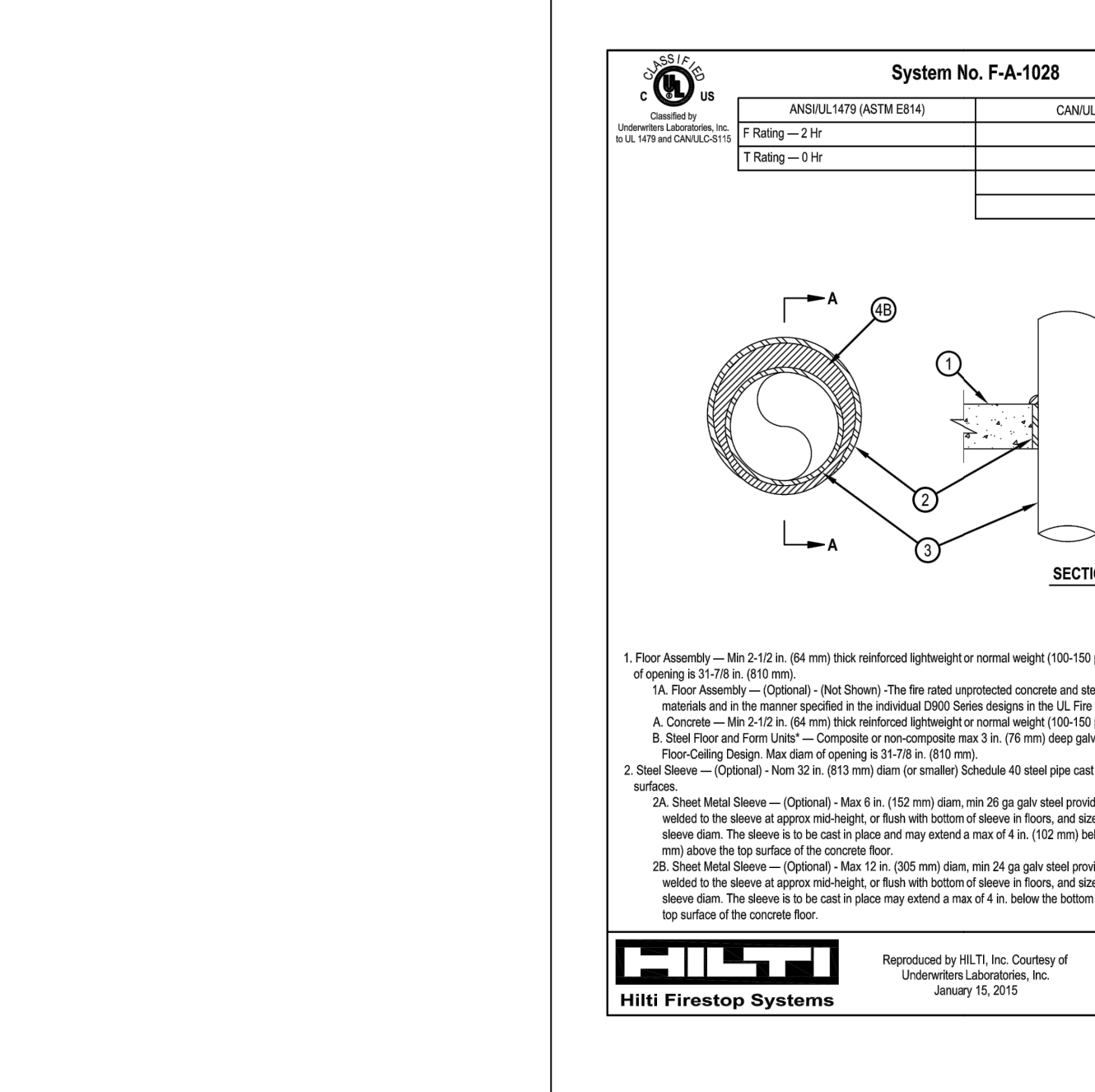
9 B300-6 6\"/>

8 A/V WALL & CEILING MOUNT INSTALL NOT TO SCALE

7 HORN/STROBE, HORN & STROBE NOT TO SCALE

6 WATERFLOW & TAMPER SWITCH DETAIL NOT TO SCALE

5 BACKFLOW PREVENTER DETAIL (OS&Y) NOT TO SCALE



12 FIRE WALL PENETRATION DETAIL NOT TO SCALE

11 ADDRESSABLE DETECTOR MOUNTING NOT TO SCALE

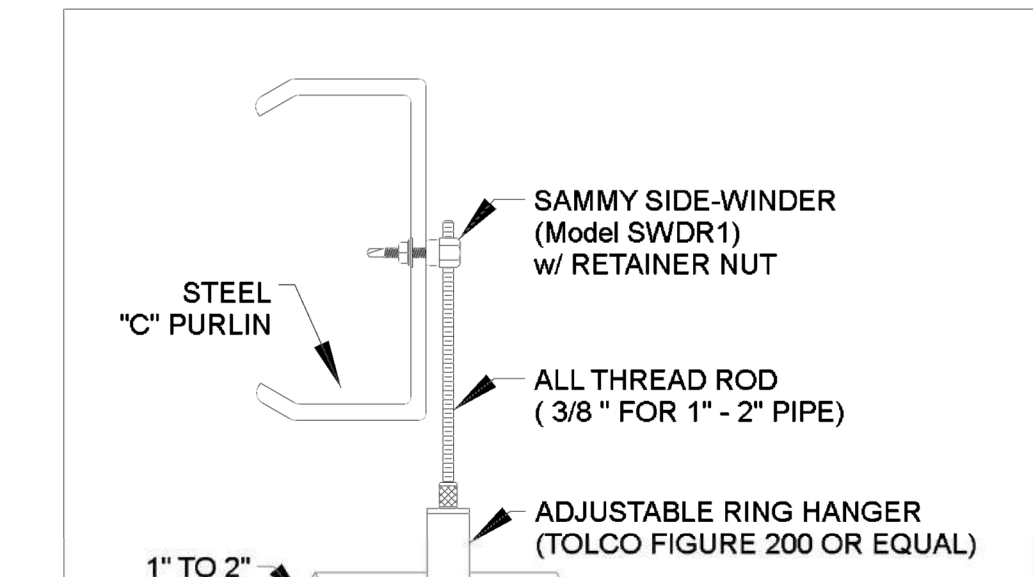
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HANGER SPACING INFORMATION

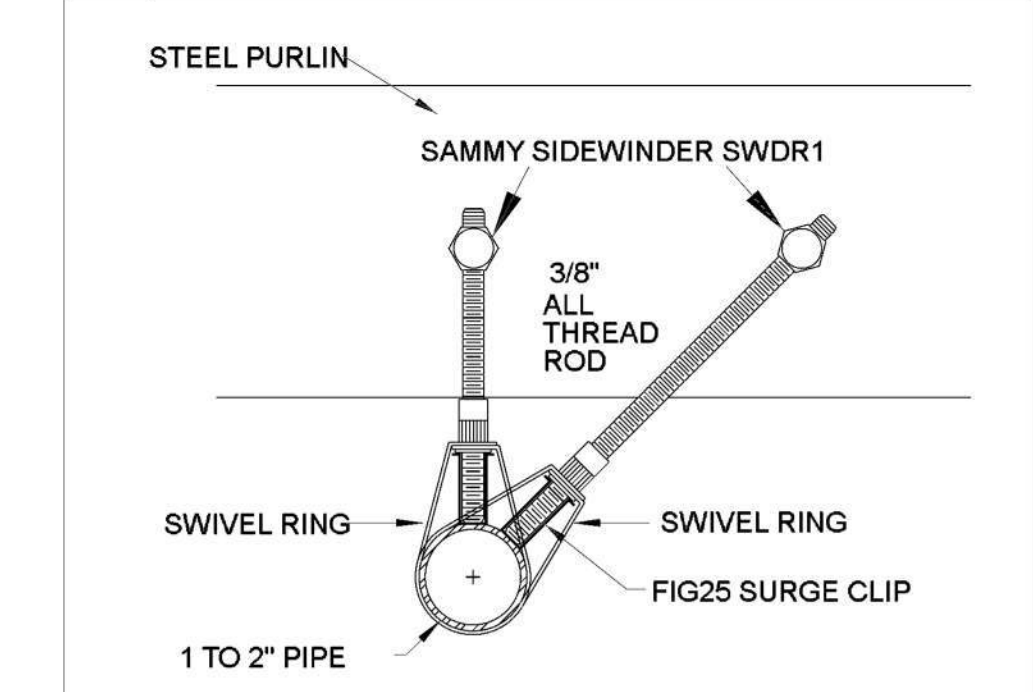
MAX DISTANCE BETWEEN HANGERS, NFPA 9.2.2.1 (A)									
	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
STEEL PIPE (EXCEPT THREADED LIGHTWALL)	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
THREADED LIGHTWALL STEEL PIPE	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	NA	NA	NA	NA
COPPER TUBE	8'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"

SPRINKLER LEGEND FIRST FLOOR									
Symbol	SIN	Model	Qty	K-Fac	Type	Size	Finish	Temp	Note
●	V3802	FC-QR-C	75	5.8	Pendent	1/2"	White	165 °F	VICTAULIC CONCEALED
○	V2704	FL-QR	10	5.6	Upright	1/2"	Brass	200 °F	VICTAULIC QR
○	V2704	FL-QR	2	5.6	Upright	1/2"	Brass	165 °F	VICTAULIC QR
○	V2710	FL-QR/SW	4	5.6	Sidewall	1/2"	White	200 °F	VICTAULIC QR
○	V2758	FL-ECLH/SW	3	5.6	Sidewall	1/2"	White	200 °F	VICTAULIC EQR
Total = 94 PLAN LEGEND									

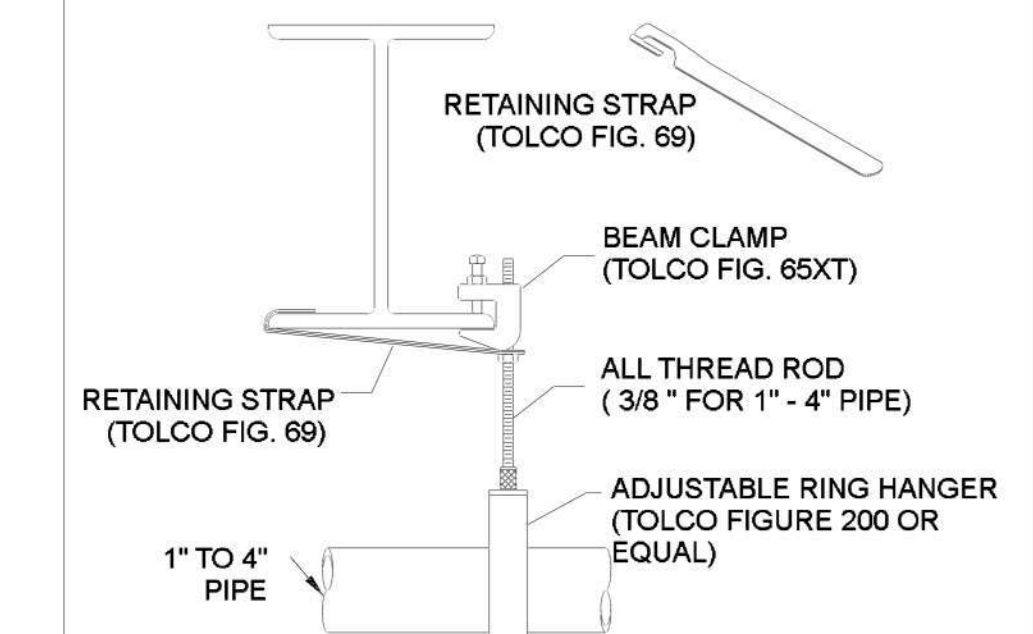
Symbol	DETAIL	TYP. HANGER	AIR	AIRVENT
○	120V BELL 10"	PIPE RESTRAINT	+	4-WAY BRACE
○	FIRE ASSEMBLY	CAN LIGHT	—	LATERAL
○	PIPE	REVISION		LONGITUDINAL BRACE



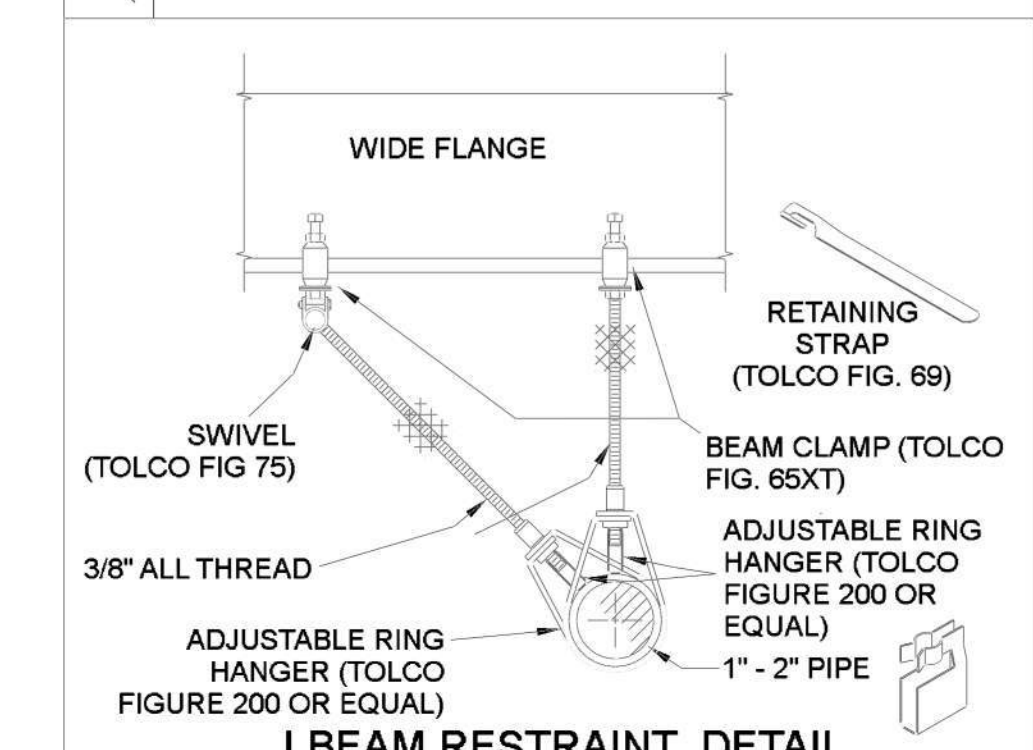
HANGER DETAIL
NO SCALE



PURLIN RESTRAINT DETAIL
NO SCALE

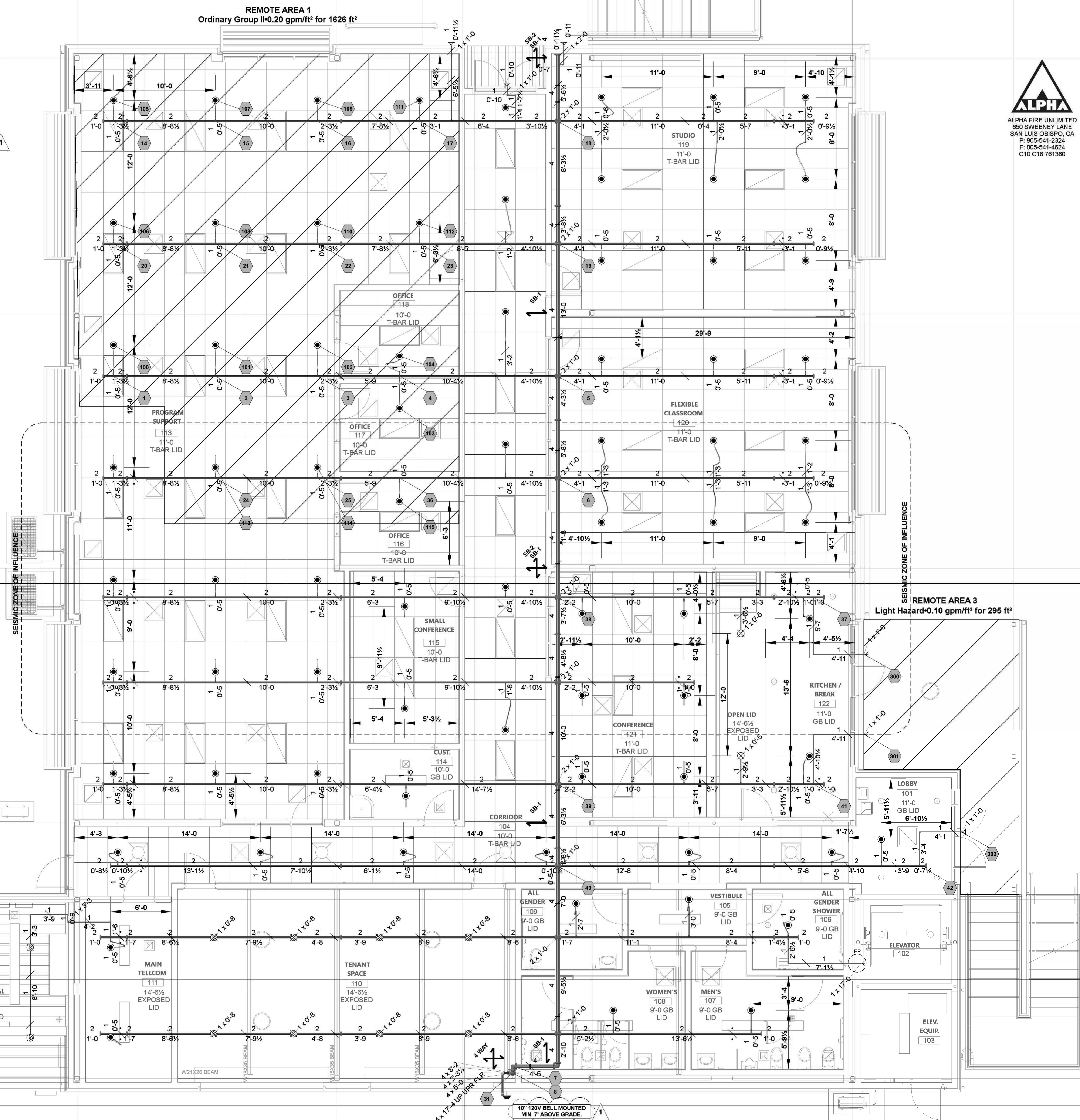


HANGER DETAIL
NO SCALE



I BEAM RESTRAINT DETAIL
NO SCALE

Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY (gpm/ft ²)	0.20 for 1600 ft ² (Actual 1626 ft ²)
TOTAL HOSE STREAMS	260.00
TOTAL HEADS FLOWING	18
K-FACTOR	5.6
TOTAL WATER REQUIRED	678.21
TOTAL PRESSURE REQUIRED	70.164
BASE OF RISER (gpm)	428.21
BASE OF RISER (psi)	44.205
SAFETY MARGIN (psi)	+12.126 (14.7%)



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



ALPHA
ALPHA FIRE UNLIMITED
850 SWEENEY LANE
SAN LUIS OBISPO, CA
P: 805-541-2324
F: 805-541-4624
C/O C16 761360

CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not constitute or approve any omissions or deviations from applicable regulations and standards. Approved plans shall be available on the project site at all times.
Approved by: *[Signature]* 07/18/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Shulst

AMG
26535 SUMMIT CIRCLE
SANTA CLARITA, CA 91350
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196
HIGUERA STREET, SUITE C
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1956X STRUCTURAL DIVISION
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ELECTRICAL ENGINEER
AARTECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
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ARCHITECT STAMP
CONSTRUCTION STAMP

LICENSED ARCHITECT
ALAN GLEN FREEMAN
C-22474
ALPHA FIRE UNLIMITED
761360
CORPORATION
CALIFORNIA

NO.	DATE	DESCRIPTION
1	12/21/2022	85% PLANS
1	04/19/2023	100% PLANS

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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93401

CAL POLY TECH PARK
- PHASE 2
1499 San Luis Drive
San Luis Obispo, CA 93401

SHEET TITLE
FIRST FLOOR PLAN

DRAWN BY: HSC JOB NUMBER: 2713-22

SHEET NO.
FP-101

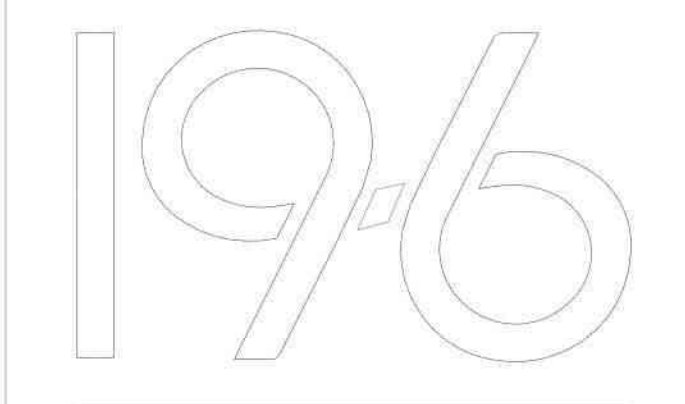
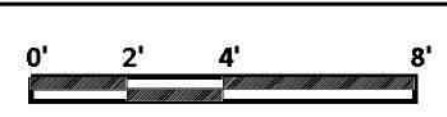
DATE: DECEMBER 20, 2022

PLOT SHEET: HSC
DATE PLOTTED: 04/13/23 09:57:54 AM
CP TECH FP V1

HANGER SPACING INFORMATION									
MAX DISTANCE BETWEEN HANGERS, NFPA 9.2.2.1 (A)									
	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
STEEL PIPE (EXCEPT THREADED LIGHTWALL)	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
THREADED LIGHTWALL STEEL PIPE	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	NA	NA	NA	NA
COPPER TUBE	8'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"

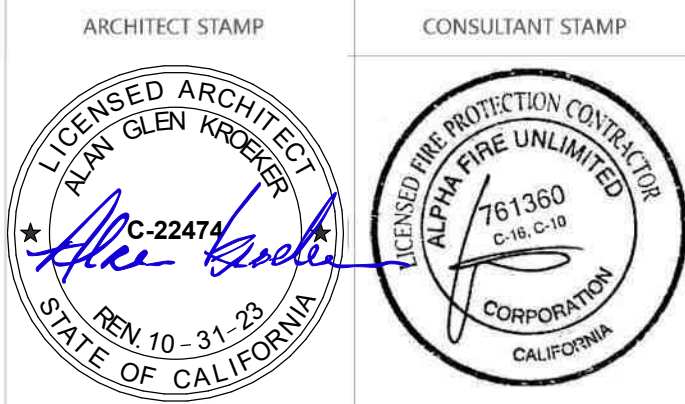
SPRINKLER LEGEND SECOND FLOOR									
Symbol	SIN	Model	Qty	K-Fac	Type	Size	Finish	Temp	Note
	V2704	FL-QR	63	5.8	Upright	1/2"	Brass	200 °F	VICTAULIC QR
	V2710	FL-QR/SW	3	5.6	Sidewall	1/2"	White	200 °F	VICTAULIC QR
	V3802	FC-QR-C	8	5.6	Pendent	1/2"	White	155 °F	VICTAULIC CONCEALED
Total = 74									

PLAN LEGEND							
Symbol	DESCRIPTION	Symbol	DESCRIPTION	Symbol	DESCRIPTION	Symbol	DESCRIPTION
	RISER		DETAIL		TYP. HANGER		AIR
	REVISION NOTE		120V BELL BY OTHERS		PIPE RESTRAINT		4-WAY BRACE
	KEYED NOTE		FIRE ASSEMBLY		CAN LIGHT		LATERAL
	CALC NODE		PIPE		REVISION		LONGITUDINAL BRACE



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- CONSULTANTS
- CIVIL ENGINEER
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 - LANDSCAPE ARCHITECT
LANS
540 E. BETTERAVIA ROAD, SUITE D 122
SANTA MARIA, CA 93454
TEL (760) 220-6811
 - STRUCTURAL ENGINEER
195X STRUCTURAL DIVISION
1199 GARDEN STREET
SANTA BARBARA, CA 93101
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 - MECHANICAL & PLUMBING ENGINEER
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MONROVIA, CA 91016
TEL (626) 803-0005
 - ELECTRICAL ENGINEER
ALPATECH
421 E. HUNTINGTON DRIVE
MONROVIA, CA 91016
TEL (626) 803-0005



NO.	DATE	DESCRIPTION
1	12/21/2022	85% PLANS
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PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
SAN LUIS OBISPO
1 Grand Avenue
San Luis Obispo, CA 93401

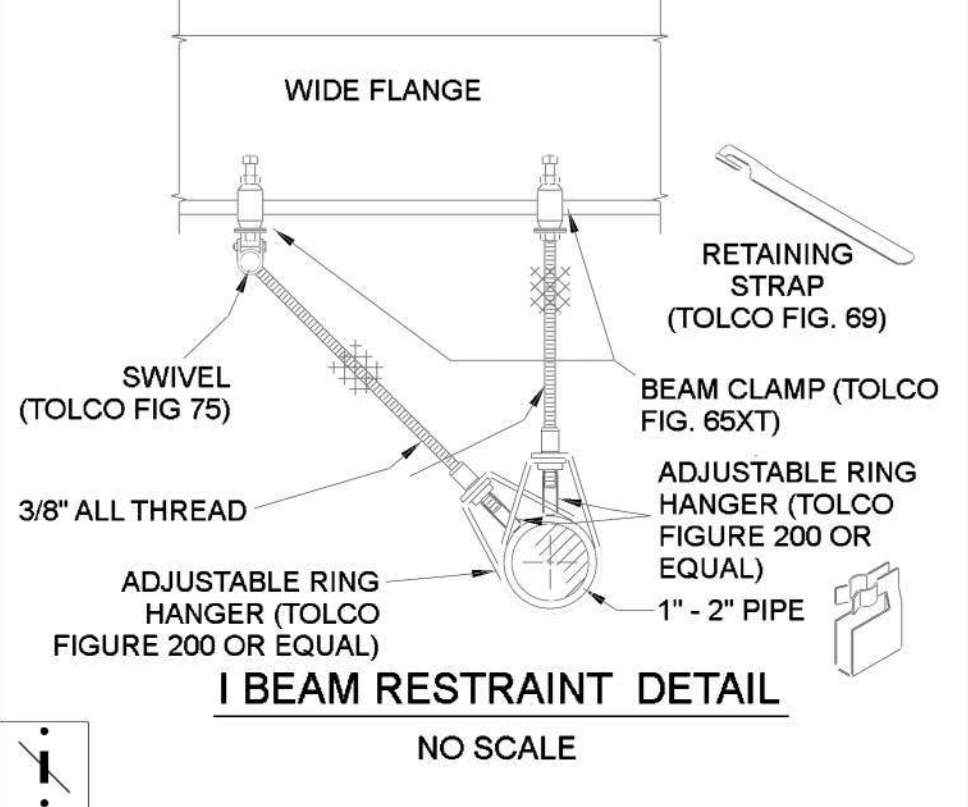
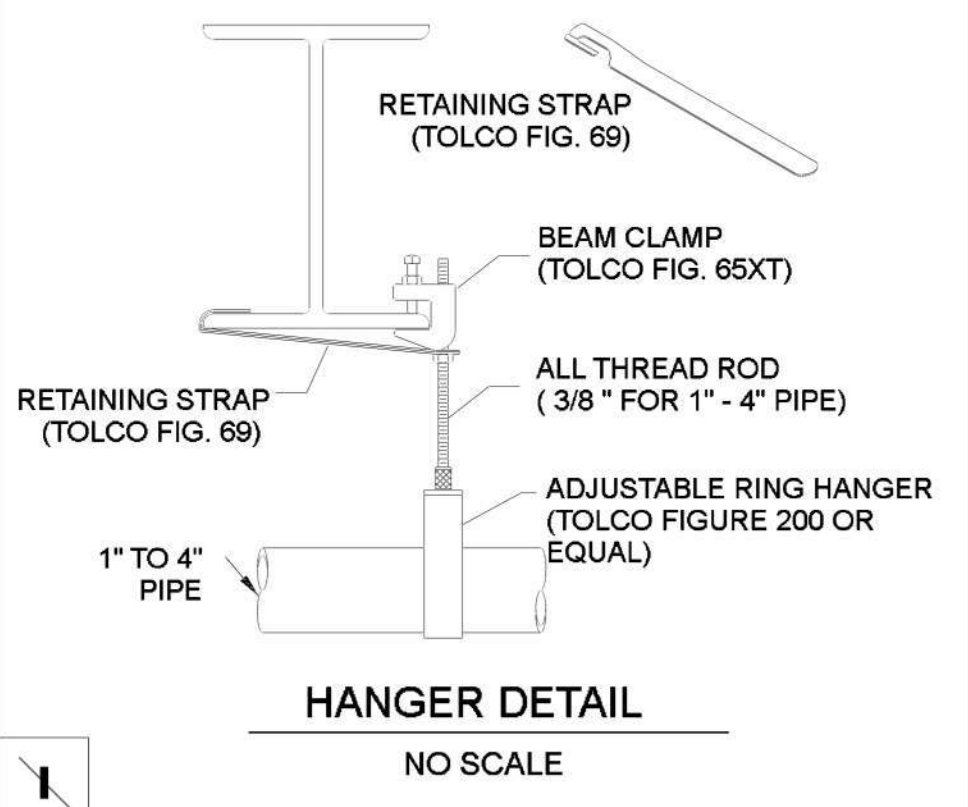
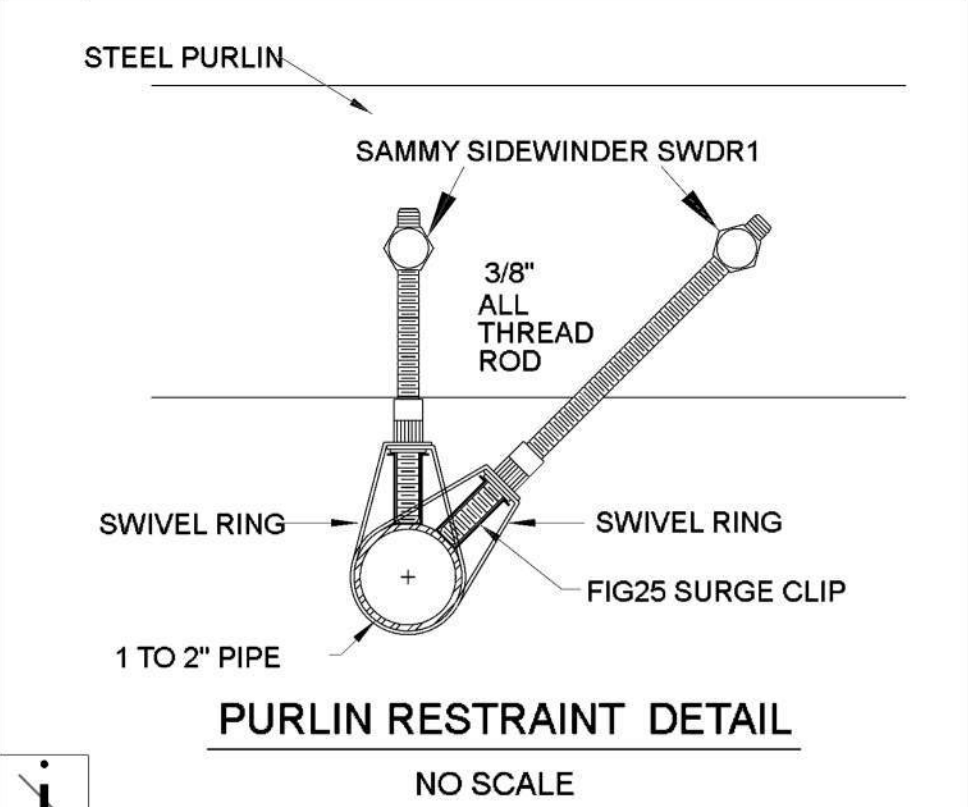
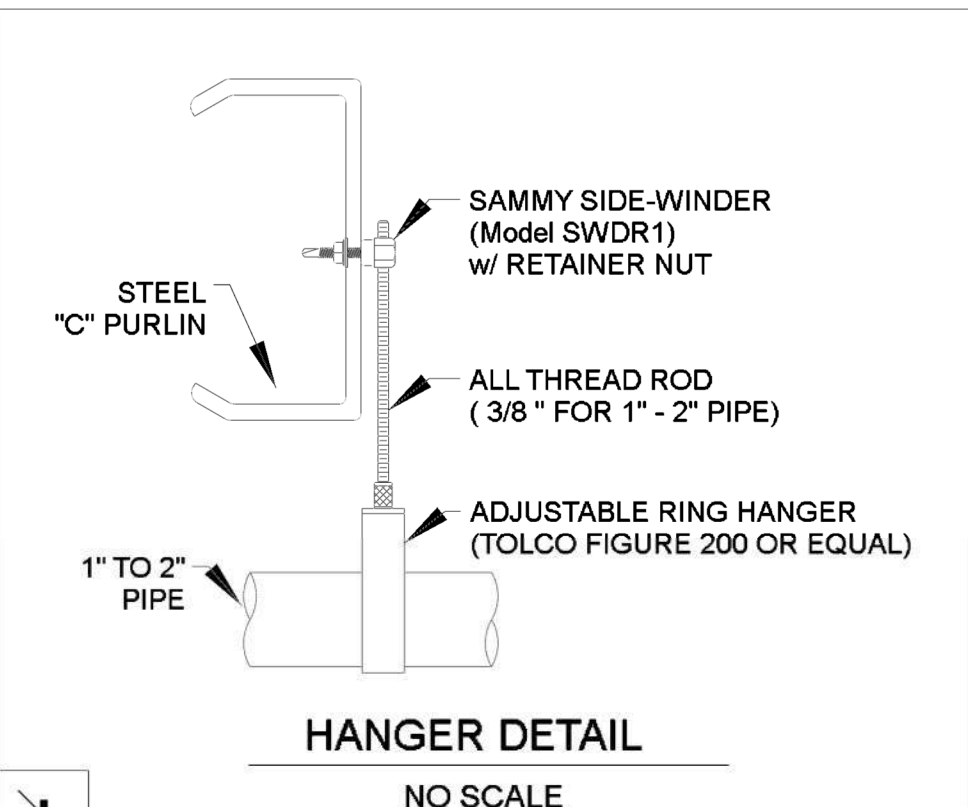
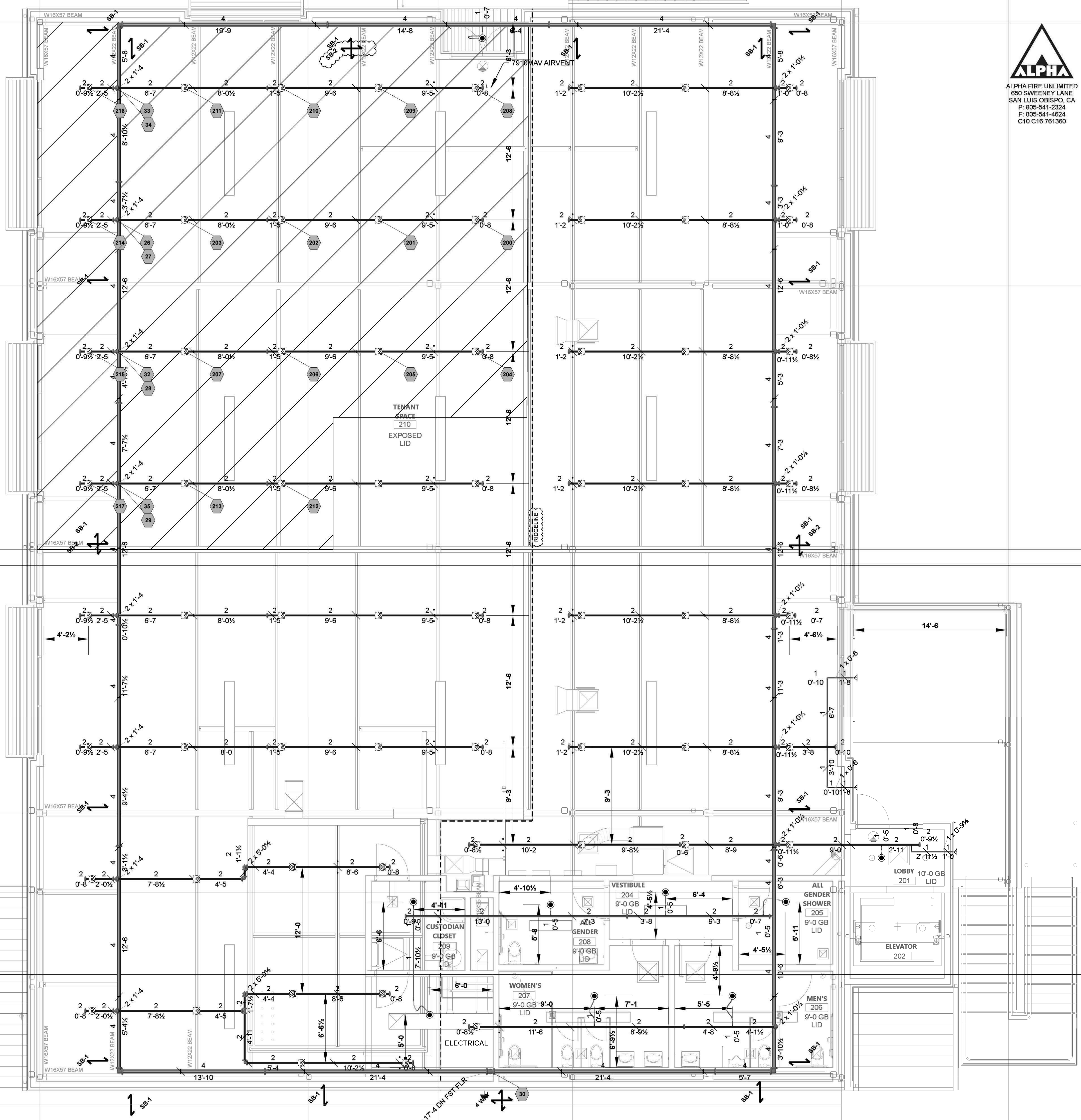
CAL POLY TECH PARK - PHASE 2
1499 San Luis Drive
San Luis Obispo, CA 93401

SHEET TITLE
SECOND FLOOR PLAN

DRAWN BY: SSC J08 NUMBER: 2713-22

SHEET NO.
FP-102
DATE: DECEMBER 20, 2022

REMOTE AREA 2
Ordinary Group II=0.20 gpm/ft² for 2094 ft²



Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY (gpm/ft ²)	0.20 for 1500 ft ² (Actual 2094 ft ²)
TOTAL HOSE STREAMS	260.00
TOTAL HEADS FLOWING	18
K-FACTOR	5.6
TOTAL WATER REQUIRED	711.78
TOTAL PRESSURE REQUIRED	72.487
BASE OF RISER (gpm)	461.78
BASE OF RISER (psi)	43.073
SAFETY MARGIN (psi)	+8.478 (10.5%)

B
FP4

A
FP1

12/16/22, 3:42 PM U.S. Seismic Design Maps OSHPD

Latitude: Longitude: 35.29935406, -120.68940482

Google 12/16/2022, 3:43:01 PM Map data ©2022 Google

Date 12/16/2022, 3:43:01 PM ASCE7-16

Design Code Reference Document ASCE7-16

Risk Category II

Site Class D - Default (See Section 11.4.3.)

Type	Value	Description
S ₀	1.059	MCE _g ground motion, (for 0.2 second period)
S ₁	0.391	MCE _g ground motion, (for 1.0 second period)
S _{es}	1.271	Site modified spectral acceleration value
S _{u1}	N/A	Site modified spectral acceleration value
S _{u2}	0.847	Numerical seismic design value at 0.2 second SA
S _{u1}	N/A	Numerical seismic design value at 1.0 second SA

Type	Value	Description
S _{DC}	N/A	Seismic design category
F _v	1.2	Site amplification factor at 0.2 second
F _v	N/A	Site amplification factor at 1.0 second
PGA	0.469	MCE _g peak ground acceleration
PGA	1.2	Site amplification factor at PGA
PGA	0.563	Site modified peak ground acceleration
T _l	8	Long period transition period in seconds
S _{uH}	1.059	Probabilistic risk-lagged ground motion, (0.2 second)
S _{uH}	1.178	Factored uniform hazard (2% probability of exceedance in 50 years) spectral acceleration
S _{uD}	1.193	Factored deterministic acceleration value, (0.2 second)
S _{uH}	0.391	Probabilistic risk-lagged ground motion, (1.0 second)
S _{uH}	0.434	Factored uniform hazard (2% probability of exceedance in 50 years) spectral acceleration
S _{uD}	0.683	Factored deterministic acceleration value, (1.0 second)
PGA	0.795	Factored deterministic acceleration value, (Peak Ground Acceleration)
PGA	0.469	Uniform hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C _s	0.899	Mapped value of the risk coefficient at short periods
C _s	0.901	Mapped value of the risk coefficient at a period of 1 s
C _v	1.312	Vertical coefficient

https://www.seismicmaps.org 12

TOLBrace™ Seismic Bracing Calculations V8.8.118

Project Address: CP TECH PARK Contractor: Alpha Fire Unlimited
 GRAND AVE 1 Address: 650 Sweeney Lane
 SLO, CA Phone: 805-541-2324 San Luis Obispo, CA
 License: C16-761360

Job # 2713-22 Calculations based on 2016 NFPA Pamphlet #13

Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 1001 Clamp	2000 lbs (907 kg)
Type of Brace	Sch. 40	Fig. 909 - 3/8" No-Thread Swel	1370 lbs (621 kg)
Angle of Brace	45° Min.	Fig. 828 Across 3/8" Thick Flan	1000 lbs (454 kg)
Least Rad. of Gyration	0.42" (11 mm)	*Calculation Based on CONCENTRIC Loading	
L/R Value	200	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.	
Max Horizontal Load	1310 lbs (594 kg)	Seismic Brace Assembly Detail	

Fastener Information	
Orientation to Connecting Surface	NFPA Type B
Fastener	Fig. 828 Across 3/8" Thick Flange
Type	N/A
Diameter	N/A
Length	N/A
Maximum Load	1000 lbs (454 kg)
Prying Factor	N/A

Sprinkler System Load Calculation (F _{pw} = CpWp)					
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	40 R (12.2 m)	40 R (12.2 m)	11.78 lb/R (17.53 kg/m)	471 lbs (214 kg)
Subtotal Weight: 471 lbs (214 kg)					
Wp (incl. 15%): 542 lbs (245 kg)					
Total (F _{pw}): 542 lbs (245 kg)					

Main Size: 4" Type/Sch.: Sch. 10 Spacing (R): 40' Maximum F_{pw} per 9.3.5.2 (if applicable): 542 lbs (245 kg)

TOLBrace™ Seismic Calculation

CP TECH PARK Job # 2713-22
 GRAND AVE 1
 SLO, CA
 License: C16-761360

Brace Identification: 4-WAY
 Brace Type (Per NFPA#13): NFPA Type B
 Braced Pipe (R): 4" Sch. 10 Steel Pipe
 Spacing of Brace: 40' 0" (12.19 m)
 Orientation of Brace: Rise
 Bracing Material: 1" Sch. 40
 Maximum Brace Length: 7' 0" (2.13 m)
 Slenderness Ratio used for Load Calculation: 200
 True Angle of Brace for Calculation: 45°
 Type of Fastener: Fig. 828 Across 3/8" Thick Flange Beam
 Length of Fastener: N/A

Summary of Pipe within Zone of Influence

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" Sch. 10 Steel Pipe (101.6 mm)	Sch. 10	50 R (15.2 m)	50 R (15.2 m)	11.78 lb/R (17.53 kg/m)	589 lbs (267 kg)
Subtotal Weight: 589 lbs (267 kg)					
Wp (incl. 15%): 677 lbs (307 kg)					
Total (F _{pw}): 677 lbs (307 kg)					

G-Factor Used 0.525
 Allowance for Heads and Fittings: 15%
 Conclusions: Total Adjusted Load of Pipe in Zone of Influence: 284 lbs (129 kg)
 Material Capacity: 1310 lbs (594 kg)
 Fastener Capacity: 2403 lbs (1090 kg)
 Fig. 1001 Clamp: 1414 lbs (641 kg)
 Fig. 909 - 3/8" No-Thread Swel: 969 lbs (440 kg)
 Structural Member: STEEL I BEAM

Calculations prepared by ALPHA UNLIMITED
 *The description of the Structural Member is for informational purposes only.
 TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
 Contact us at TOLBrace™
 *Use at www.tolbrace.com

TOLBrace™ Seismic Bracing Calculations V8.8.118

Project Address: CP TECH PARK Contractor: Alpha Fire Unlimited
 GRAND AVE 1 Address: 650 Sweeney Lane
 SLO, CA Phone: 805-541-2324 San Luis Obispo, CA
 License: C16-761360

Job # 2713-22 Calculations based on 2016 NFPA Pamphlet #13

Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 4L Clamp	2000 lbs (907 kg)
Type of Brace	Sch. 40	Fig. 909 - 3/8" No-Thread Swel	1370 lbs (621 kg)
Angle of Brace	45° Min.	Fig. 828 Across 3/8" Thick Flan	1000 lbs (454 kg)
Least Rad. of Gyration	0.42" (11 mm)	*Calculation Based on CONCENTRIC Loading	
L/R Value	200	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.	
Max Horizontal Load	1310 lbs (594 kg)	Seismic Brace Assembly Detail	

Fastener Information	
Orientation to Connecting Surface	NFPA Type E
Fastener	Fig. 828 Across 3/8" Thick Flange
Type	N/A
Diameter	N/A
Length	N/A
Maximum Load	1000 lbs (454 kg)
Prying Factor	N/A

Sprinkler System Load Calculation (F _{pw} = CpWp)					
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	50 R (15.2 m)	50 R (15.2 m)	11.78 lb/R (17.53 kg/m)	589 lbs (267 kg)
Subtotal Weight: 589 lbs (267 kg)					
Wp (incl. 15%): 677 lbs (307 kg)					
Total (F _{pw}): 677 lbs (307 kg)					

Main Size: 4" Type/Sch.: Sch. 10 Spacing (R): 50' Maximum F_{pw} per 9.3.5.2 (if applicable): 677 lbs (307 kg)

TOLBrace™ Seismic Calculation

CP TECH PARK Job # 2713-22
 GRAND AVE 1
 SLO, CA
 License: C16-761360

Brace Identification: SB.2
 Brace Type (Per NFPA#13): NFPA Type E
 Braced Pipe (R): 4" Sch. 10 Steel Pipe
 Spacing of Brace: 50' 0" (15.24 m)
 Orientation of Brace: Longitudinal
 Bracing Material: 1" Sch. 40
 Maximum Brace Length: 7' 0" (2.13 m)
 Slenderness Ratio used for Load Calculation: 200
 True Angle of Brace for Calculation: 45°
 Type of Fastener: Fig. 828 Across 3/8" Thick Flange Beam
 Length of Fastener: N/A

Summary of Pipe within Zone of Influence

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" Sch. 10 Steel Pipe (101.6 mm)	Sch. 10	50 R (15.2 m)	50 R (15.2 m)	11.78 lb/R (17.53 kg/m)	589 lbs (267 kg)
Subtotal Weight: 589 lbs (267 kg)					
Wp (incl. 15%): 677 lbs (307 kg)					
Total (F _{pw}): 677 lbs (307 kg)					

G-Factor Used 0.525
 Allowance for Heads and Fittings: 15%
 Conclusions: Total Adjusted Load of Pipe in Zone of Influence: 356 lbs (161 kg)
 Material Capacity: 1310 lbs (594 kg)
 Fastener Capacity: 771 lbs (350 kg)
 Fig. 4L Clamp: 1414 lbs (641 kg)
 Fig. 909 - 3/8" No-Thread Swel: 969 lbs (440 kg)
 Structural Member: STEEL I BEAM

Calculations prepared by ALPHA UNLIMITED
 *The description of the Structural Member is for informational purposes only.
 TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
 Contact us at TOLBrace™
 *Use at www.tolbrace.com

CSU The California State University
 OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
 APPROVED
 PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site at all times.

Approved by: *DS* 07/18/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Dan Skubal

AMG

26535 SUMMIT CIRCLE
 SANTA CLARITA, CA 91350
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196

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ARCHITECT STAMP

CONSULTANT STAMP

LICENSED ARCHITECT
 ALAN CLAY FREEMAN
 C-22474
 10-31-23
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LICENSED FIRE PROTECTION CONSULTANT
 ALPHAS FIRE UNLIMITED
 761360
 10-31-23
 CORPORATION
 CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1	12/21/2022	85% PLANS
1	04/19/2023	100% PLANS

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
CAL POLY UNIVERSITY
 SAN LUIS OBISPO
 1 Grand Avenue
 San Luis Obispo, CA 93401

CAL POLY TECH PARK
 - PHASE 2
 1499 San Luis Drive
 San Luis Obispo, CA 93401

SHEET TITLE
DETAILS PAGE

DRAWN BY:HSC JOB NUMBER: 2713-22

SHEET NO.
FP-103

DATE: DECEMBER 20, 2022

TOLBrace™ Seismic Bracing Calculations V8.8.118

Project Address: CP TECH PARK Contractor: Alpha Fire Unlimited
 GRAND AVE 1 Address: 650 Sweeney Lane
 SLO, CA Phone: 805-541-2324 San Luis Obispo, CA
 License: C16-761360

Job # 2713-22 Calculations based on 2016 NFPA Pamphlet #13

Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 1001 Clamp	2000 lbs (907 kg)
Type of Brace	Sch. 40	Fig. 909 - 3/8" No-Thread Swel	1370 lbs (621 kg)
Angle of Brace	45° Min.	Fig. 828 Across 3/8" Thick Flan	1000 lbs (454 kg)
Least Rad. of Gyration	0.42" (11 mm)	*Calculation Based on CONCENTRIC Loading	
L/R Value	200	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.	
Max Horizontal Load	1310 lbs (594 kg)	Seismic Brace Assembly Detail	

Fastener Information	
Orientation to Connecting Surface	NFPA Type E
Fastener	Fig. 828 Across 3/8" Thick Flange
Type	N/A
Diameter	N/A
Length	N/A
Maximum Load	1000 lbs (454 kg)
Prying Factor	N/A

Sprinkler System Load Calculation (F _{pw} = CpWp)					
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	11.78 lb/R (17.53 kg/m)	294 lbs (133 kg)
2" (50 mm)	Sch. 10	202 R (61.6 m)	202 R (61.6 m)	4.22 lb/R (6.28 kg/m)	852 lbs (389 kg)
1" (25 mm)	Sch. 40	25 R (7.6 m)	25 R (7.6 m)	2.05 lb/R (3.05 kg/m)	51 lbs (23 kg)
Subtotal Weight: 1197 lbs (543 kg)					
Wp (incl. 15%): 1377 lbs (624 kg)					
Total (F _{pw}): 1377 lbs (624 kg)					

Main Size: 4" Type/Sch.: Sch. 10 Spacing (R): 25' Maximum F_{pw} per 9.3.5.2 (if applicable): 1377 lbs (624 kg)

TOLBrace™ Seismic Calculation

CP TECH PARK Job # 2713-22
 GRAND AVE 1
 SLO, CA
 License: C16-761360

Brace Identification: SB.1
 Brace Type (Per NFPA#13): NFPA Type E
 Braced Pipe (R): 4" Sch. 10 Steel Pipe
 Spacing of Brace: 25' 0" (7.62 m)
 Orientation of Brace: Lateral
 Bracing Material: 1" Sch. 40
 Maximum Brace Length: 7' 0" (2.13 m)
 Slenderness Ratio used for Load Calculation: 200
 True Angle of Brace for Calculation: 45°
 Type of Fastener: Fig. 828 Across 3/8" Thick Flange Beam
 Length of Fastener: N/A

Summary of Pipe within Zone of Influence

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" Sch. 10 Steel Pipe (101.6 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	11.78 lb/R (17.53 kg/m)	294 lbs (133 kg)
2" Sch. 10 Steel Pipe (50.8 mm)	Sch. 10	202 R (61.6 m)	202 R (61.6 m)	4.22 lb/R (6.28 kg/m)	852 lbs (389 kg)
1" Sch. 10 Steel Pipe (25.4 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	2.05 lb/R (3.05 kg/m)	51 lbs (23 kg)
Subtotal Weight: 1197 lbs (543 kg)					
Wp (incl. 15%): 1377 lbs (624 kg)					
Total (F _{pw}): 1377 lbs (624 kg)					

G-Factor Used 0.525
 Allowance for Heads and Fittings: 15%
 Conclusions: Total Adjusted Load of Pipe in Zone of Influence: 723 lbs (328 kg)
 Material Capacity: 1310 lbs (594 kg)
 Fastener Capacity: 771 lbs (350 kg)
 Fig. 1001 Clamp: 1414 lbs (641 kg)
 Fig. 909 - 3/8" No-Thread Swel: 969 lbs (440 kg)
 Structural Member: STEEL I BEAM

Calculations prepared by ALPHA UNLIMITED
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TOLBrace™ Seismic Bracing Calculations V8.8.118

Project Address: CP TECH PARK Contractor: Alpha Fire Unlimited
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 License: C16-761360

Job # 2713-22 Calculations based on 2016 NFPA Pamphlet #13

Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 4L Clamp	2000 lbs (907 kg)
Type of Brace	Sch. 40	Fig. 909 - 3/8" No-Thread Swel	1370 lbs (621 kg)
Angle of Brace	45° Min.	Fig. 828 Across 3/8" Thick Flan	1000 lbs (454 kg)
Least Rad. of Gyration	0.42" (11 mm)	*Calculation Based on CONCENTRIC Loading	
L/R Value	200	*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.	
Max Horizontal Load	1310 lbs (594 kg)	Seismic Brace Assembly Detail	

Fastener Information	
Orientation to Connecting Surface	NFPA Type E
Fastener	Fig. 828 Across 3/8" Thick Flange
Type	N/A
Diameter	N/A
Length	N/A
Maximum Load	1000 lbs (454 kg)
Prying Factor	N/A

Sprinkler System Load Calculation (F _{pw} = CpWp)					
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	11.78 lb/R (17.53 kg/m)	294 lbs (133 kg)
2" (50 mm)	Sch. 10	202 R (61.6 m)	202 R (61.6 m)	4.22 lb/R (6.28 kg/m)	852 lbs (389 kg)
1" (25 mm)	Sch. 40	25 R (7.6 m)	25 R (7.6 m)	2.05 lb/R (3.05 kg/m)	51 lbs (23 kg)
Subtotal Weight: 1197 lbs (543 kg)					
Wp (incl. 15%): 1377 lbs (624 kg)					
Total (F _{pw}): 1377 lbs (624 kg)					

Main Size: 4" Type/Sch.: Sch. 10 Spacing (R): 25' Maximum F_{pw} per 9.3.5.2 (if applicable): 1377 lbs (624 kg)

TOLBrace™ Seismic Calculation

CP TECH PARK Job # 2713-22
 GRAND AVE 1
 SLO, CA
 License: C16-761360

Brace Identification: SB.2
 Brace Type (Per NFPA#13): NFPA Type E
 Braced Pipe (R): 4" Sch. 10 Steel Pipe
 Spacing of Brace: 25' 0" (7.62 m)
 Orientation of Brace: Lateral
 Bracing Material: 1" Sch. 40
 Maximum Brace Length: 7' 0" (2.13 m)
 Slenderness Ratio used for Load Calculation: 200
 True Angle of Brace for Calculation: 45°
 Type of Fastener: Fig. 828 Across 3/8" Thick Flange Beam
 Length of Fastener: N/A

Summary of Pipe within Zone of Influence

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" Sch. 10 Steel Pipe (101.6 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	11.78 lb/R (17.53 kg/m)	294 lbs (133 kg)
2" Sch. 10 Steel Pipe (50.8 mm)	Sch. 10	202 R (61.6 m)	202 R (61.6 m)	4.22 lb/R (6.28 kg/m)	852 lbs (389 kg)
1" Sch. 10 Steel Pipe (25.4 mm)	Sch. 10	25 R (7.6 m)	25 R (7.6 m)	2.05 lb/R (3.05 kg/m)	51 lbs (23 kg)
Subtotal Weight: 1197 lbs (543 kg)					
Wp (incl. 15%): 1377 lbs (624 kg)					
Total (F _{pw}): 1377 lbs (624 kg)					

G-Factor Used 0.525
 Allowance for Heads and Fittings: 15%
 Conclusions: Total Adjusted Load of Pipe in Zone of Influence: 723 lbs (328 kg)
 Material Capacity: 1310 lbs (594 kg)
 Fastener Capacity: 771 lbs (350 kg)
 Fig. 1001 Clamp: 1414 lbs (641 kg)
 Fig. 909 - 3/8" No-Thread Swel: 969 lbs (440 kg)
 Structural Member: STEEL I BEAM

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