

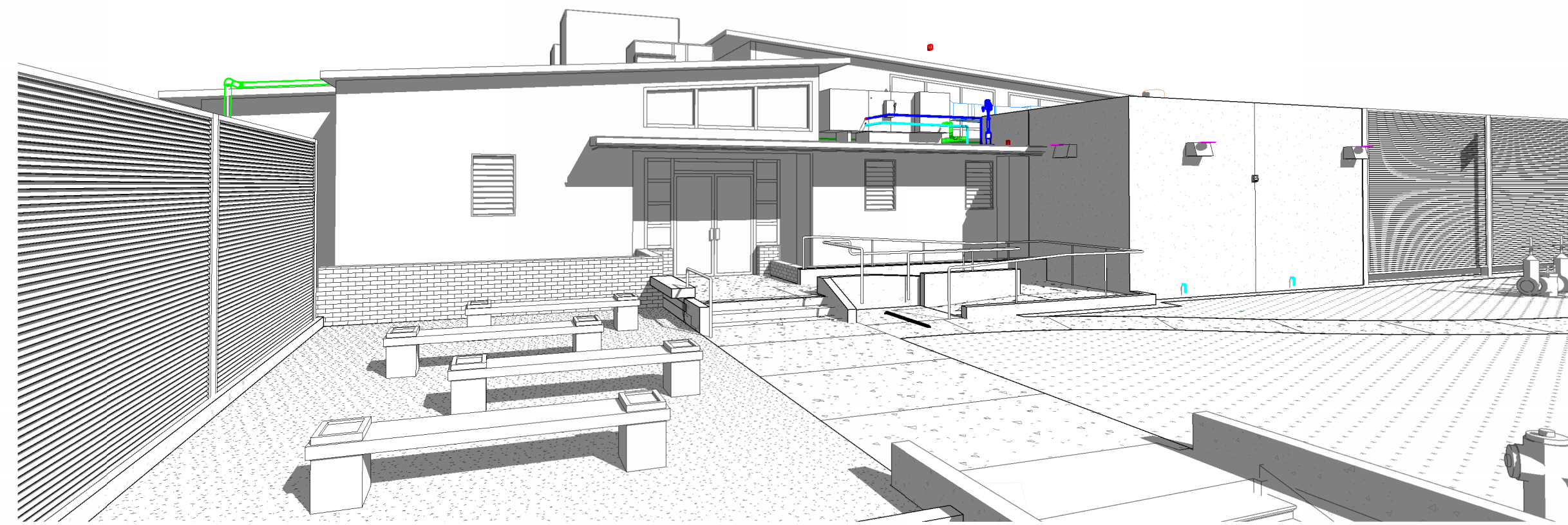
KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK. C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

RUHNAU CLARKE ARCHITECTS

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TYPICAL ABBREVIATIONS	GENERAL NOTES	VICINITY MAP	SHEET INDEX (90 SHEETS TOTAL)
<p>@ AT AND ANGLE < FOUND OR NUMBER ACP ACOUSTICAL CEILING PANEL ACT ACOUSTICAL CEILING TILE AD AREA DRAIN AFF ABOVE FINISHED FLOOR ALUM ALUMINUM ANP ACOUSTICAL WALL PANEL BD BOARD BLKG BLOCKING BOS BOTTOM OF STRUCTURE BOT BOTTOM BYND BEYOND CAB CABINET CBU CEMENT BACKER UNIT CF CURB FEET CIP CAST IN PLACE CJ CONTROL JOINT CL CENTERLINE CLF CHAIN LINK FENCE CLG CEILING CLR CLEAR CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONT CONTINUOUS CPL CEMENT PLASTER CPT CARPET DBL DOUBLE DETECTOR CHECK DEM DEMOLISH OR DEMOLITION DET DETAIL DF DRINKING FOUNTAIN DI DIAMETER DIM DIMENSION DL DOOR LOUVER DN DOWN DP DEMOUNTABLE PARTITION DR DOOR DRF DOOR FRAME DS DOWN SPOUT DSA DIVISION OF STATE DWSS DRAWINGS EA EXISTING EJ EXPANSION JOINT EL ELEVATION ELEV ELEVATOR ENCL ENCLOSURE EPDM ETHYLENE PROPYLENE DIENE MONOMER EQ EQUIPMENT EW EACH WAY EXIST EXISTING EXT EXTERIOR FC FINISH CEILING FD FLOOR DRAIN FDC FIRE DEPARTMENT CONNECTION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FF FLOOR FINISH/FACTORY FINISH FFG FURNISHINGS, FIXTURES, AND EQUIPMENT FG FINISH GRADE FH FIRE HYDRANT FHC FIRE HOSE CABINET FIN FINISH FLR FLOOR FND FOUNDATION FO FACE OF FINISH FOM FACE OF MASONRY FOS FACE OF STUO FR FIRE RISER FRP FIBERGLASS REINFORCED PANEL FS FINISH SURFACE FURN FURNISH/FURNITURE G GROUT GA GAUGE GALV GALVANIZED GB GRAB BAR GL GLASS GLULAM GLUE LAMINATED GWB GYPSUM WALLBOARD GWBB WATER RESISTANT GWB H HIGH HC HOLLOW CORE HOW HOLLOW WALLBOARD HM HOLLOW METAL HORIZ HORIZONTAL HP HIGH POINT HR HOUR HSS HOLLOW STRUCTURAL SECTION HT HEIGHT HVAC HEATING, VENTILATING, AND AIR CONDITIONING I IN ICB INTEGRAL COVERED BASE ID INSIDE DIAMETER IGU INSULATED GLAZING UNIT ILO IN LEU OF INSUL INSULATION INTERFERED JH JOIST HANGER JT JOIST JS JOIST L LIGHT LAM LAMINATE LO LOW LY LIGHT LVR LOUVER LVT LUXURY VINYL TILE MACH MACHINE MAX MAXIMUM MANF MANUFACTURER MECH MECHANICAL MFR MANUFACTURER MH MANHOLE MIN MINIMUM MO MASONRY OPENING MS METAL STUD MTD MOUNTED MTL METAL MPS METAL PANEL SYSTEM NIC NOT IN CONTRACT NTS NOT TO SCALE NO NUMBER OC ON CENTER OFDI OUTSIDE DIAMETER OCFI OWNER FURNISHED/ CONTRACTOR INSTALLED OFDI OWNER FURNISHED/ OWNER INSTALLED OH OPPOSITE HAND/ OVERHEAD OPN OPENING OPP OPPOSITE OZ OUNCE PA PAINT OR PAINTED PLANTING AREA PCC PRE-CAST CONCRETE PFIN PRE FINISHED PIV PIV ROTATOR VALVE PL PLATE/EXPROSION LINE PLM PLASTIC LAMINATE PLMB PLUMBING PLYWOOD PLYWOOD PT PRESSURIZED TREATED PARTITION PARTITION PVC POLYVINYL CHLORIDE R RADIUS RB RUBBER BASE RCP REFLECTED CEILING PLAN RD ROOF DRAIN REF REFERENCE REINF REINFORCED RESINUS FLOORING REQ REQUIRED RM ROOM ROU ROUGH OPENING REQM REQUIREMENT RUBBER SHAEDE RUBBER TREAD SAF SYNTHETIC ATHLETIC FLOORING SB SOLID BLOCK SC SOLID CORE SMT SHEATHING SIM SIMILAR SPEC SPECIFIED OR CORRECTED SS STAINLESS STEEL SSM SOLID SURFACE MATERIAL STC SOUND TRANSMISSION COEFFICIENT STANDARD STD STAIN STL STEEL STRUCT STRUCTURE OR STRUCTURAL SUSP SUSPENDED SV SHEET VINYL FLOORING T TILE TACK BOARD TC TOP OF CONCRETE CURB TEL TELEPHONE TEMP TEMPORARY TAG TONGUE AND GROOVE TO TOP OF TOC TOP OF CONCRETE/ TOP OF CANOPY TOP OF DRAIN TOP OF PARAPET TOP OF ROOF TOP OF SHEATHING TOP OF WALL TUBE STEEL TOP SET BASE TYP TYPICAL</p>	<p>1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.</p> <p>2. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.</p> <p>3. CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL ALL EQUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED, UNLESS OTHERWISE NOTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK NECESSARY TO COMPLETE THE PROJECT.</p> <p>4. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) AND SECTION 4-333.</p> <p>5. STRUCTURAL MODIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (C.C.D.) APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.</p> <p>6. A PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. THE INSPECTOR SHALL BE ESPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK AND HAVE SUCCESSFULLY COMPLETED THE REQUIRED DSA CERTIFICATION PROCESS FOR CLASS 2 INSPECTOR OF RECORD AND A.R.B.I.P.</p> <p>7. THE ARCHITECT OF RECORD SHALL HAVE THE RIGHT TO MAKE FINAL JUDGMENTS RELATIVE TO SUBMITTAL DRAWING REVISIONS IN ORDER TO ENSURE COMPLIANCE WITH ENGINEERING STANDARDS, APPLICABLE CODES, AND ARCHITECTURAL INTENT.</p> <p>8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCUMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>9. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.</p> <p>10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/DIRECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.</p> <p>11. UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE DRAWINGS.</p> <p>12. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS.</p> <p>13. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.</p> <p>14. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.</p> <p>15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL, ETC.) AND BETWEEN DRAWINGS AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES, ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.</p> <p>16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR)</p> <p>17. GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES, INSPECTOR OF RECORD (IOR CLASSIFICATION 1).</p> <p>18. LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED SEE SECTION 04.10.00 FOR MORE INFORMATION. NOTE: SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.</p>	<p style="text-align: center;">VICINITY MAP</p> <p style="text-align: center;">SITE MAP</p> <p style="text-align: center;">APPLICABLE CODES</p> <p>PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023</p> <p>2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.</p> <p>APPLICABLE STANDARDS FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CFC CHAPTER 35 AND CFC CHAPTER 80. DSA INTERPRETATION OF REGULATIONS (IR), POLICIES (PL), PROCEDURES (PR) AND BULLETINS (BU)</p>	<p style="text-align: center;">SHEET INDEX (90 SHEETS TOTAL)</p> <p>GENERAL G-1 TITLE SHEET & SHEET INDEX G-2 CODE ANALYSIS, SIGN, & EGRESS PLAN</p> <p>CIVIL CO.0 CIVIL GENERAL NOTES AND ABBREVIATIONS CD.1 TOPOGRAPHIC SURVEY C1.1 DEMOLITION PLAN C2.1 GRADING PLAN C3.1 UTILITY PLAN CA.1 PAVING PLAN CS.1 DETAILS AND SECTIONS</p> <p>LANDSCAPE LS-1.0 LANDSCAPE IMPROVEMENT PLAN LS-1.1 LANDSCAPE DETAILS</p> <p>ARCHITECTURAL SITE AS-1.1 OVERALL SITE PLAN AS-2.0 ENLARGED SITE PLAN AND ELEVATIONS ASD-1 SITE DETAILS ASD-2 SITE DETAILS</p> <p>ARCHITECTURE A-0.1 DEMO FLOOR PLAN & RCP A-0.2 DEMO ROOF PLAN A-1.0 FLOOR PLAN A-2.0 RCP A-3.0 ROOF PLAN A-4.0 ELEVATIONS & SECTIONS A-7.0 ENLARGED PLANS / INTERIOR ELEVATIONS A-8.0 DOOR SCHEDULE</p> <p>INTERIOR DESIGN ID-1.0 FINISHES PLAN / SCHED & CDF LEGEND</p> <p>ARCHITECTURE DETAILS AD-1.0 ACCESSIBILITY DETAILS AD-1.1 SIGNAGE DETAILS AD-2.0 WALL DETAILS AD-3.0 ROOF DETAILS AD-4.0 CEILING DETAILS AD-6.0 DOOR DETAILS</p> <p>STRUCTURAL S1.0 GENERAL NOTES S1.1 STRUCTURAL SPECIAL INSPECTIONS AND TESTING S2.00 PLAN NOTES AND LEGENDS S2.01 PLAN VIEWS S3.01 BUILDING SECTIONS S5.01 TYPICAL CONCRETE DETAILS S5.11 TYPICAL FRAMING AND WALLING DETAILS S5.12 TYPICAL SHEAR WALL AND HOLDOWN DETAILS S5.13 INTERIOR TYPICAL NON-STRUCTURAL DETAILS</p> <p>MECHANICAL M-0.1 MECHANICAL LEGEND & NOTES M-0.2 MECHANICAL SCHEDULES MS-1.1 MECHANICAL ENLARGED DEMO & NEW SITE PLANS M-1.0 MECHANICAL DEMO & NEW FLOOR PLANS M-2.0 MECHANICAL DEMO & NEW ROOF PLANS M-3.0 MECHANICAL SECTIONS M-4.0 MECHANICAL ISOMETRICS M-5.0 MECHANICAL CONTROLS M-6.0 MECHANICAL DETAILS MD-6.1 MECHANICAL DETAILS</p> <p>PLUMBING P-0.1 PLUMBING LEGEND & NOTES P-0.2 PLUMBING SCHEDULES PS-1.1 PLUMBING ENLARGED DEMO & NEW SITE PLANS P-1.0 PLUMBING DEMO & NEW WATER & GAS FLOOR PLANS P-2.0 PLUMBING DEMO & NEW WASTE & VENT PLANS P-3.0 PLUMBING DEMO & NEW ROOF PLANS P-3.0 PLUMBING SECTIONS P-4.0 PLUMBING ISOMETRICS PD-6.0 PLUMBING DETAILS PD-6.1 PLUMBING DETAILS</p> <p>ELECTRICAL E-0.1 ELECTRICAL LEGENDS E-0.2 ELECTRICAL OVERALL SITE PLAN ES-1.0 ELECTRICAL ENLARGED DEMO & NEW SITE PLANS ES-1.1 ELECTRICAL PHOTO-METRIC SITE PLAN E-1.0 ELECTRICAL DEMO & NEW POWER PLANS E-1.0 ELECTRICAL DEMO & NEW LIGHTING PLANS E-2.0 ELECTRICAL DEMO & NEW ROOF PLANS E-3.0 ELECTRICAL ONE-LINE DIAGRAM E-4.0 ELECTRICAL FIXTURE AND PANEL SCHEDULES ED-6.0 ELECTRICAL DETAILS</p> <p>FIRE ALARM FA-0.1 FIRE ALARM LEGEND & NOTES FA-0.2 FIRE ALARM RISER DIAGRAM AND CALCULATIONS FA-1.0 FIRE ALARM OVERALL SITE PLAN</p> <p>FAS-1.1 FIRE ALARM ENLARGED DEMO & NEW SITE PLANS FA-1.0 FIRE ALARM DEMO & NEW FLOOR PLANS FAD-6.0 FIRE ALARM DETAILS</p> <p>FOOD SERVICES FS.01.0 FOODSERVICE EQUIP. FLOOR PLAN FS.02.0 FOODSERVICE EQUIP. SCHEDULE FS.03.0 FOODSERVICE EQUIP. PLUMBING PLAN FS.04.0 FOODSERVICE EQUIP. ELECTRICAL PLAN FS.05.0 FOODSERVICE EQUIP. BUILDING WORK PLAN FS.06.0 FOODSERVICE EQUIP. REFRIGERATION PLAN FS.06.1 FOODSERVICE EQUIP. REFRIGERATION RACK FS.07.0 FOODSERVICE EQUIP. ELEVATIONS FS.09.0 FOODSERVICE EQUIP. ATTACHMENT DETAILS FS.09.1 FOODSERVICE EQUIP. ATTACHMENT DETAILS FS.10.0 FOODSERVICE EQUIP. EXHAUST HOOD DETAILS FS.10.1 FOODSERVICE EQUIP. EXHAUST HOOD DETAILS FS.11.0 FOODSERVICE EQUIP. SERVERY EQUIPMENT</p> <p>TOTAL SHEET COUNT: 90</p>

SCOPE OF WORK

1. RENOVATION OF KITCHEN AREA IN EXISTING MIXED USE BUILDING AND ADDITION OF NEW FLOOR AREA FOR WALK IN FREEZER AND REFRIGERATION. RENOVATION INCLUDES UPDATES TO KITCHEN EQUIPMENT AND MEP SYSTEMS, AS WELL AS SITE IMPROVEMENTS WHICH INCLUDE A NEW SEATING AREA, TRASH ENCLOSURE, AND VARIOUS ADA UPGRADES.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECT/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET (MARKED CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, FOOD SERVICE)

THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENT OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH THE PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17802 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b)).

I FIND THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

THIS DRAWING OR PAGE

IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

Signature: DATE: 07/05/2024

Signature: _____ DATE: _____

Signature: _____ DATE: _____

ARCHITECTURAL SYMBOLS

BUILDING SECTION
DIRECTION OF VIEW CUT
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS

KEYNOTE
DIRECTION OF VIEW CUT
KEYNOTE NUMBER
ASSOCIATED DETAIL REFERENCE

EXTERIOR ELEVATION
DIRECTION OF VIEW
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS

DETAIL REFERENCE TO DRAWINGS
VIEW ON SHEET
SHEET ON WHICH DETAIL OCCURS

ROOM TAGS
DIRECTION OF VIEW
ROOM NAME
ROOM NUMBER

RCP ROOM TAGS
CELLING HEIGHT A.F.F.
ROOM NAME
ROOM NUMBER

EGRESS ROOM TAGS
ROOM AREA
OCCUPANT LOAD
OCCUPANT LOAD FACTOR

KEYNOTE IDENTIFICATION:
DEPTH
INDICATES SPECIAL CONDITION
W.I.C. NUMBER
LENGTH
LOCK
EXPLANATION OF SPECIAL CONDITION IF NEEDED

DOOR TAG
DOOR TAG
DOOR RATING

WINDOW TAG
WINDOW TAG

INTERIOR ELEVATION
INTERIOR ELEVATION VIEW
SHEET ON WHICH INTERIOR ELEVATION OCCURS

PROJECT NO. 11-104-01
7/5/2024 1:56:34 PM

BY	DATE	REVISION
DELTA	DATE	ADD
DELTA	DATE	ADD
DELTA	DATE	ADD

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KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK. C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

TITLE SHEET & SHEET INDEX

G-1

1-104-01

FOR REFERENCE ONLY

MULTI-PURPOSE BUILDING F CODE ANALYSIS

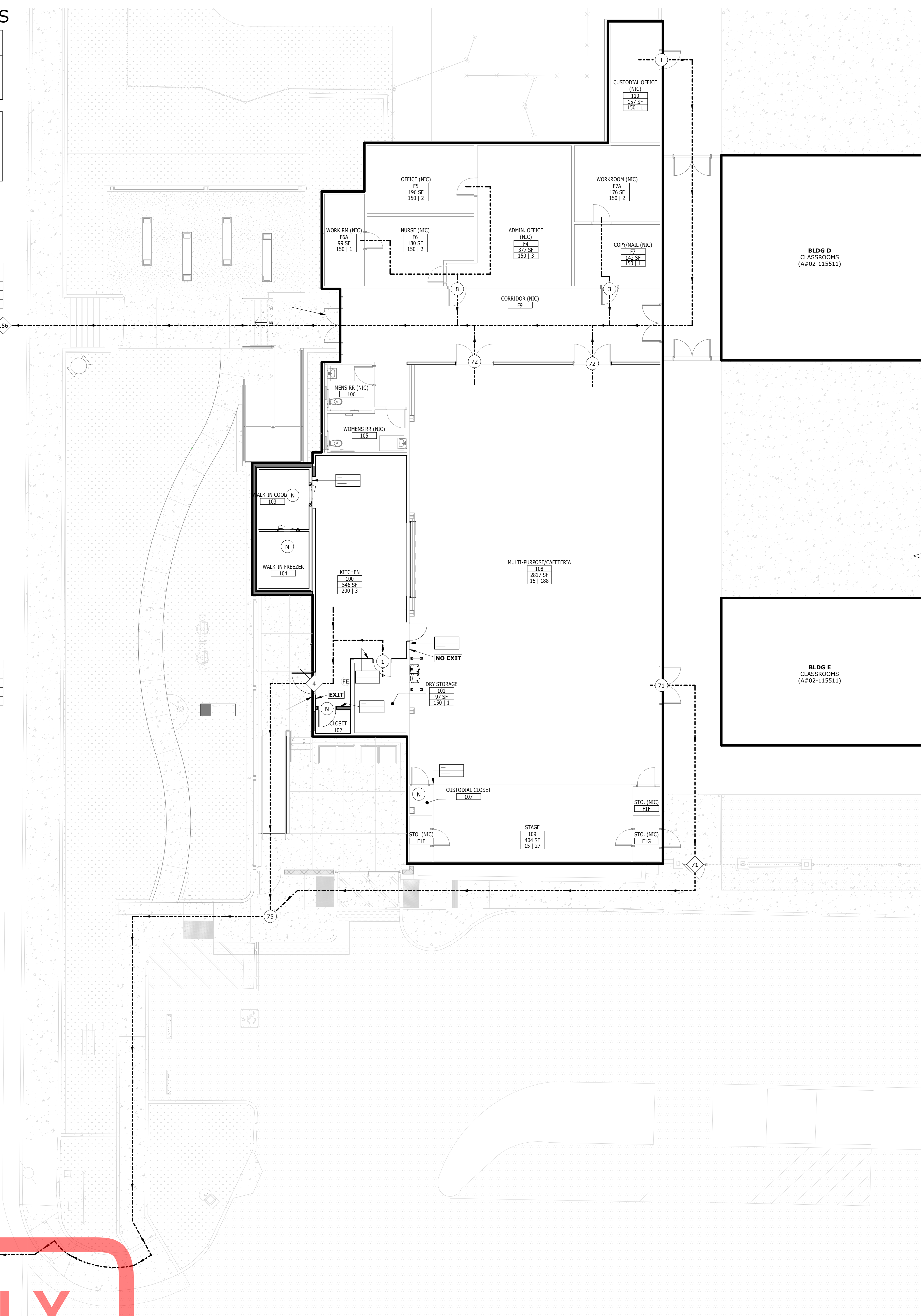
BUILDING NAME	USE	OCCUPANCY TYPE SECTION 302	CONSTRUCTION TYPE SECTION 602	ALLOWABLE STORIES TABLE 504.4	ACTUAL STORIES	ALLOWABLE HEIGHT TABLE 504.3	ACTUAL HEIGHT
MULTI-PURPOSE	MULTI-PURPOSE & KITCHEN	A-2	V-B NON-SPRINKLERED	1	1	40'-0"	20'-0"
	ADMINISTRATION	B NON-SEPERATED					

BUILDING AREA (SF)		FRONTAGE INCREASE AND AREA MODIFIED CALCULATION SECTION 506		EXTERIOR WALL PROTECTION TABLE 601		OPENING PROTECTION TABLE 705.8
ALLOWABLE AREA (SF) TABLE 506.2	ACTUAL AREA (SF)			BEARING	NON-BEARING	
6000	6713	418' TOTAL PERIMETER	197' PERIMETER W/ 30' MIN FRONTAGE	0	0	UNLIMITED PER 705.8.1 EXCEPTION 2
		6000 SF x 1.25 = 7500 SF ALLOWABLE	6713 SF < 7500 SF O.K.			

EGRESS OPENING WIDTH	
TOTAL OCCUPANCY	156
EGRESS WIDTH PER OCCUPANCY	.2
REQUIRED OPENING WIDTH	31"
OPENING WIDTH PROVIDED	72"

EGRESS OPENING WIDTH	
TOTAL OCCUPANCY	4
EGRESS WIDTH PER OCCUPANCY	.2
REQUIRED OPENING WIDTH	0.8"
OPENING WIDTH PROVIDED	42"

WATT AVENUE



AGENCY APPROVAL
 (Seal area)

RUHNA CLARKE ARCHITECTS

GENERAL EGRESS NOTES

- PER SECTION 1010.2.9 IN THE CBC 2022, DOOR SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE ARE REQUIRED TO HAVE PANIC HARDWARE OR FIRE EXIT HARDWARE.
- ROOM OCCUPANT LOADS FACTORED PER CBC 2022 SECTION 1004, TABLE 1004.5, AND DSA IR 10-2
- REFER TO SIGNAGE SCHEDULE IN SECTION 10 14 23 FOR MORE INFORMATION.
- SEE SHEET AD-1.1 FOR SIGNAGE ATTACHMENTS.
- ALL DOORS TO HAVE A 90 DEGREE SWING LIMIT WHERE TACTILE SIGNAGE IS LOCATED ON HINGE SIDE OF DOOR.
- TYPICAL AT PAIRS OF DOORS: WHEN POSSIBLE TACTILE SIGNAGE SHALL BE PLACED AT RIGHT SIDE OF DOORS.
- LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED, SEE SECTION 20.41.00 FOR MORE INFORMATION.
 NOTE: SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.

EGRESS & SIGNAGE LEGEND

FE SEMI-RECESSED FIRE EXTINGUISHER, PER DETAIL AD-1.0
 MAXIMUM TRAVEL DISTANCE IDENTIFIED ON PLANS, PER CBC 2022 SECTION 906.

ROOM OCCUPANCY DISCHARGE

N NON-OCCUPIED ROOM

N TOTAL OCCUPANCY DISCHARGE

--- PATH OF EGRESS, TRAVEL DISTANCE SHALL NOT BE MORE THAN 200 FT IN UNSPRINKLERED OCCUPANCY GROUP A BUILDINGS PER CBC TABLE 1104.18

ROOM TAG

ROOM NAME ROOM TITLE
100 ROOM NUMBER
123 SF SQUARE FOOTAGE OF ROOM
15 OCCUPANT LOAD
1.2 OCCUPANT LOAD FACTOR

NO EXIT NOT AN EXIT SIGN AD-1.1
EXIT EXIT SIGN AD-1.1
7 INDICATES SIGN LOCATION

FOR REFERENCE ONLY

PROJECT No. :1-104-01
 7/5/2024 1:26:06 PM

DRAWN BY: _____ CHECKED BY: _____
 DELTA # _____ DATE _____
 DELTA # _____ DATE _____
 DELTA # _____ DATE _____

CODE ANALYSIS, SIGNAGE, AND EGRESS PLAN SCALE: 1/8" = 1'-0" 1

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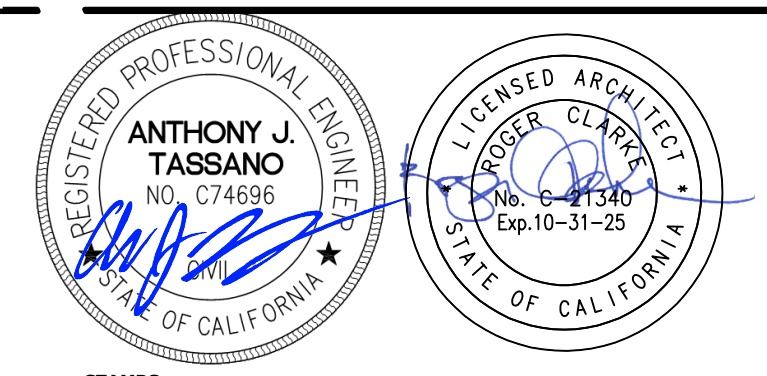
KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK C. JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

CODE ANALYSIS, SIGN, & EGRESS PLAN

G-2

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



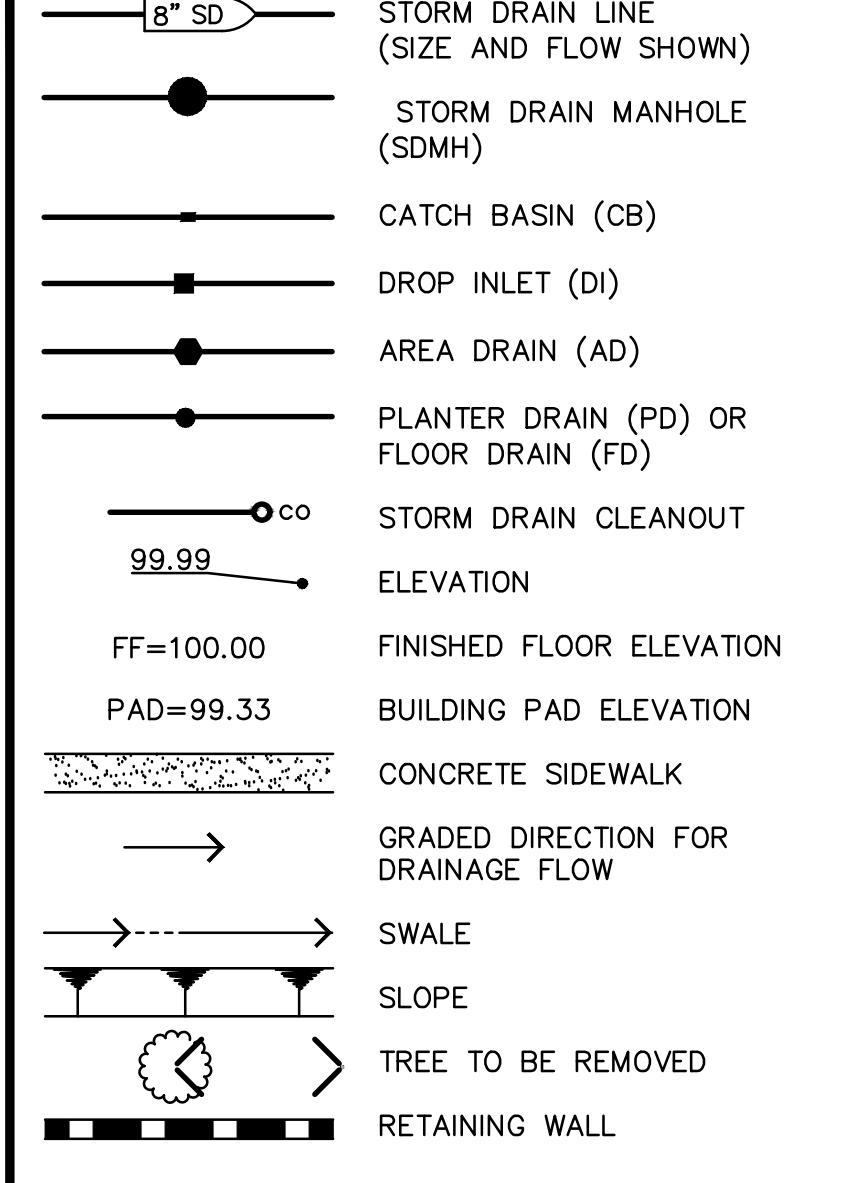
AGENCY APPROVAL

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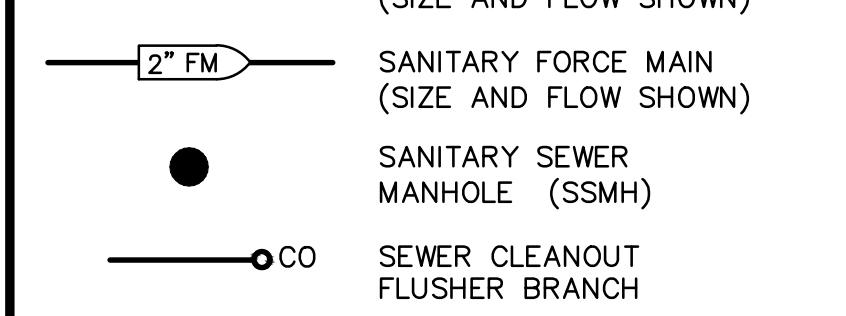


SYMBOLS LEGEND
NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

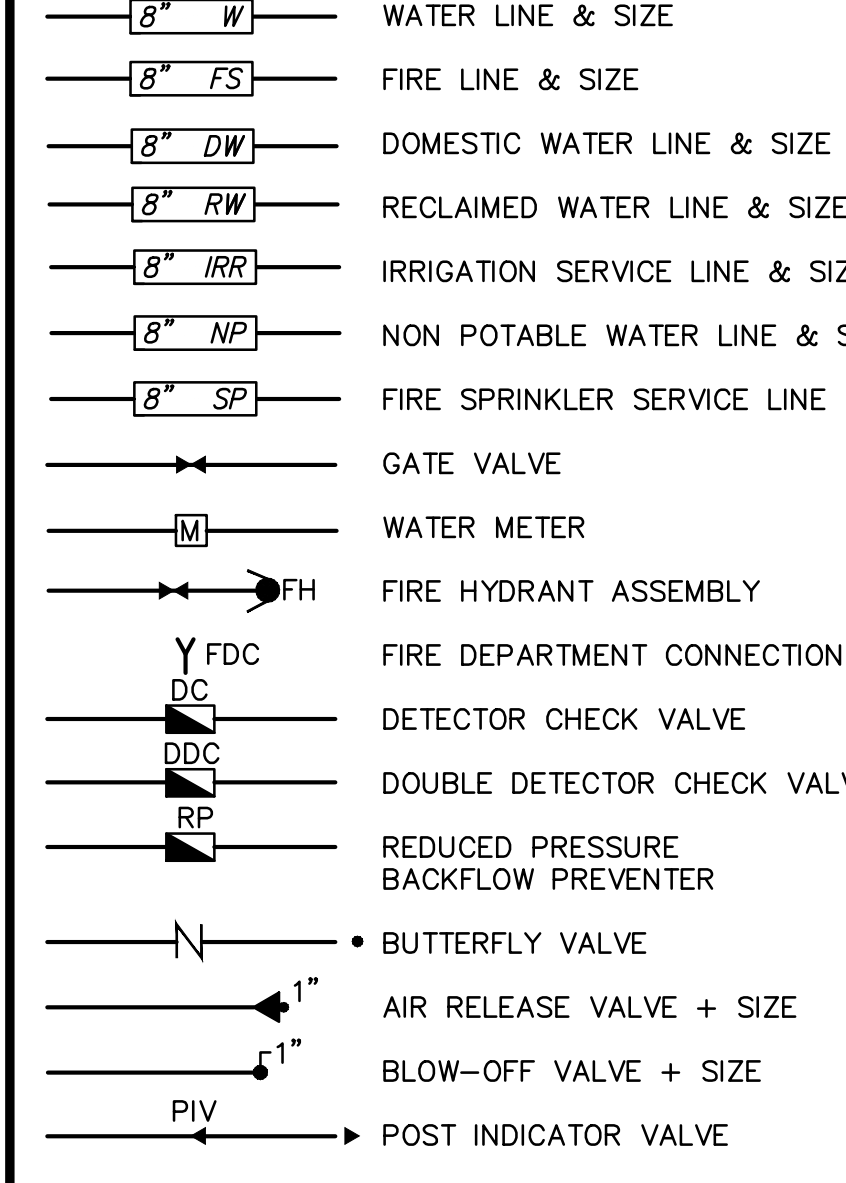
PROPOSED GRADING & DRAINAGE SYMBOLS:



PROPOSED SANITARY SEWER SYMBOLS:



PROPOSED WATER SYMBOLS:



ABBREVIATIONS
NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

Table listing abbreviations for materials like aggregate base, asphaltic concrete, area drain, assessor's parcel number, air release valve, aggregate sub-base, blow-off valve, butterfly valve, back of walk, centerline, catch basin, class, corrugated metal pipe, cable television, cleanout, communication, concrete, construct, curb return, concrete surface, double check valve, decomposed granite, drop inlet, diameter, ductile iron pipe, drawing, downspout, electric, edge of pavement, easement, existing, fire service line, fire department connection, floodline, sanitary sewer force main, finished floor elevation, fire hydrant, grate, grade elevation, gate valve, hose bibb, header board, high density polyethylene pipe, high point, pipe invert elevation, joint utility pole, lineal feet, lip of gutter, left, mo-strip, not to scale, overhead, portland cement concrete, planter drain, post indicator valve, property line, power pole, public utility easement, polyvinyl chloride, reinforced concrete pipe, radius, manhole rim elevation, reduced pressure backflow preventer, right of way, schedule, storm drain, storm drain manhole, subgrade elevation, side inlet, sanitary sewer, sanitary sewer manhole, standard, sidewalk, telephone, top of curb, trench drain, trench drain catch basin, telephone pole, top of ramp, top of retaining wall, top of seat walk, top of walk elevation, utility, underground, unless otherwise noted, vitrified clay pipe, water, with, without, water valve.

GENERAL NOTES

- 1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811. Know what's below. Call before you dig.
- 2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING OR IMPROPER CONSTRUCTION.
- 3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- 4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- 7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- 9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- 11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- 12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- 14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- 15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- 17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTOR'S EXPENSE.
- 18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTOR'S EXPENSE.
- 19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
- 21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- 22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- 23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

- 1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- 2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0% AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
 - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

SHEET INDEX

Table with 2 columns: NO. and SHEET DESCRIPTION. Rows include CIVL, C0.0 CIVIL GENERAL NOTES AND ABBREVIATIONS, C0.1 TOPOGRAPHIC SURVEY, C1.1 DEMOLITION PLAN, C2.1 GRADING PLAN, C3.1 UTILITY PLAN, C4.1 PAVING PLAN, C5.1 DETAILS AND SECTIONS.

FILENAME: \\124-086\CIVIL\DWG\124-086-C00.DWG

FOR REFERENCE ONLY

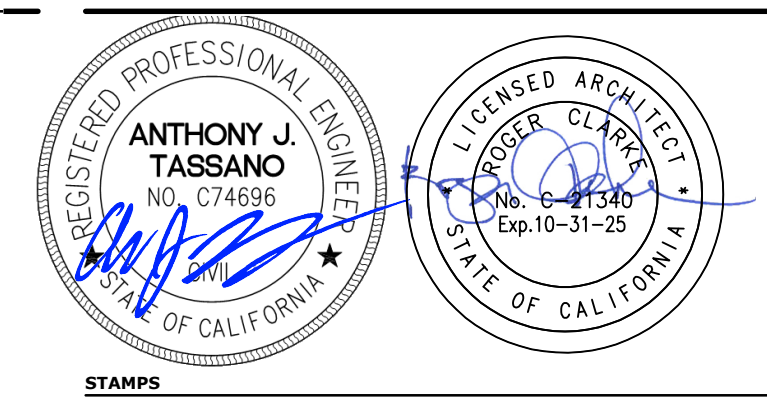
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**FC JOYCE PK-8 SCHOOL
KITCHEN MODERNIZATION**
FC JOYCE PK-8 SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

CIVIL GENERAL NOTES
AND ABBREVIATIONS

C0.0



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ABBREVIATIONS

- NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.
- ACC ACCESSIBLE
 - ACU AIR CONDITIONING UNIT
 - AD ASSESSOR'S PARCEL NUMBER
 - APP APPARATUS
 - ARV AIR RELEASE VALVE
 - BBALL BASKETBALL POLE
 - BCM BRASS CAP MONUMENT
 - BFP BACK FLOW PREVENTER
 - BILDG BUILDING
 - BOLLG BOLLARD
 - BOV BLOW-OFF VALVE
 - BR BRICK
 - BWF BARBED WIRE FENCE
 - C COMMUNICATION
 - CB CABLE TELEVISION
 - CIP COMMUNICATIONS BOX
 - C/L CENTERLINE
 - CLF CHAIN LINK FENCE
 - CO CLEANOUT
 - COL COLUMN
 - CONC. CONCRETE
 - COND. CONDENSATE
 - CPF CONTROL POINT FOUND
 - CPS CONTROL POINT SET
 - CS CONCRETE SURFACE
 - DF DRINKING FOUNTAIN
 - DG DECOMPOSED GRANITE
 - DI DRIVEWAY
 - DS DOWNSPOUT
 - DWG DRAWING
 - E ELECTRIC
 - EP EDGE OF PAVEMENT
 - EASMT EASEMENT
 - FA FIRE ALARM
 - FB FIRE BOX
 - FDC FIRE DEPARTMENT CONNECTION
 - FFE FINISHED FLOOR ELEVATION
 - FH FIRE HYDRANT
 - FL FLOWLINE
 - FD FIBER OPTIC
 - FP FLAGPOLE
 - F5 FIRE SERVICE
 - G GAS
 - GB GRADE BREAK
 - GD GARAGE DOOR
 - GR GRATE
 - GRB GROUND ROD BOX
 - GROD GROUND ROD
 - GV GATE STOP
 - H GAS VALVE
 - HYDRONICS HYDRONICS
 - HOSE BIBB HOSE BIBB
 - HBB HOSE BIBB BOX
 - HBD HEADER BOARD
 - HP HIGH PRESSURE
 - HR HANDRAIL
 - HV HIGH VOLTAGE ELECTRIC
 - HWF HOGE WIRE FENCE
 - ICP IN CONCRETE
 - ICP IRRIGATION CONTROL PANEL
 - INV PIPE INVERT ELEVATION
 - IRK IRRIGATION
 - JP JOINT UTILITY POLE
 - JT JOINT TRENCH
 - LNDG LANDING
 - LVE LOW VOLTAGE ELECTRIC
 - M META
 - MH MANHOLE
 - MR METAL TRAMP
 - MS MOW STRIP
 - MSC METAL STORAGE CONTAINER
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - OHANG OVERHANG
 - OP OPEN IRON PIPE
 - PA PLANTER AREA
 - PB PARKING BUMPER
 - PH POSTHOLE
 - PIV POST INDICATOR VALVE
 - P/L PROPERTY LINE
 - PP POWER POLE
 - PRI PER RECORD INFORMATION
 - PUE PUBLIC UTILITY EASEMENT
 - PV PAVERS
 - PVC POLYVINYL CHLORIDE
 - R RUBBER
 - RG ROLLING GATE
 - RIM MANHOLE RIM ELEVATION
 - ROW RIGHT OF WAY
 - RUBBER RAMB RUBBER RAMB
 - RW RETAINING WALL
 - REDWOOD REDWOOD
 - RWL RAIN WATER LEADER
 - SB SIGNAL BOX
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SIGL SIGNAL
 - SIGL STREET LIGHT
 - SLB STREET LIGHT BOX
 - SSCO SANITARY SEWER CLEANOUT
 - SSMH SANITARY SEWER MANHOLE
 - STL STEEL
 - T TELEPHONE
 - TBALL TETHER BALL POLE
 - TBM TEMPORARY BENCHMARK
 - TC TOP OF CURB
 - TD TRENCH DRAIN
 - TEP TELEPHONE POLE
 - TRW TOP OF RETAINING WALL
 - UG UNDERGROUND
 - UNKNW UNKNOWN
 - V VENT
 - VBALL VOLLEYBALL
 - W WATER
 - W/ WITH
 - WD WOOD
 - WF WOOD FENCE
 - WRF WROUGHT IRON FENCE
 - WFF WOOD RAIL FENCE
 - XF TRANSFORMER
 - XWALK CROSSWALK
 - YO YARD DRAIN

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- = CENTERLINE
- = EASEMENT
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- 99.9 = GROUND ELEVATION
- 99.99 = HARD SURFACE ELEVATION

EXISTING UTILITIES

- = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- = STORM DRAIN LINE (RECORD INFORMATION)
- = STORM DRAIN LINE (UNDERGROUND LOCATING)
- = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- = RAIN WATER LEADER
- = DOWNSPOUT
- = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- = SANITARY SEWER LINE (RECORD INFORMATION)
- = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- = WATER LINE (SIZE INDICATED)
- = WATER LINE (RECORD INFORMATION)
- = WATER LINE (UNDERGROUND LOCATING)
- = WATER MANHOLE
- = WATER VALVE
- = WATER METER
- = WATER BOX
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = BACKFLOW PREVENTER
- = SPRINKLER
- = HOSE BIBB
- = OVERHEAD ELECTRIC LINE
- = UNDERGROUND ELECTRIC LINE
- = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- = LIGHT STANDARD
- = SIGNAL LIGHT
- = FLOOD LIGHT
- = ELECTRICAL OUTLET
- = GAS LINE (SIZE INDICATED)
- = GAS LINE (RECORD INFORMATION)
- = GAS LINE (UNDERGROUND LOCATING)
- = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- = TELEPHONE LINE
- = TELEPHONE LINE (RECORD INFORMATION)
- = TELEPHONE LINE (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

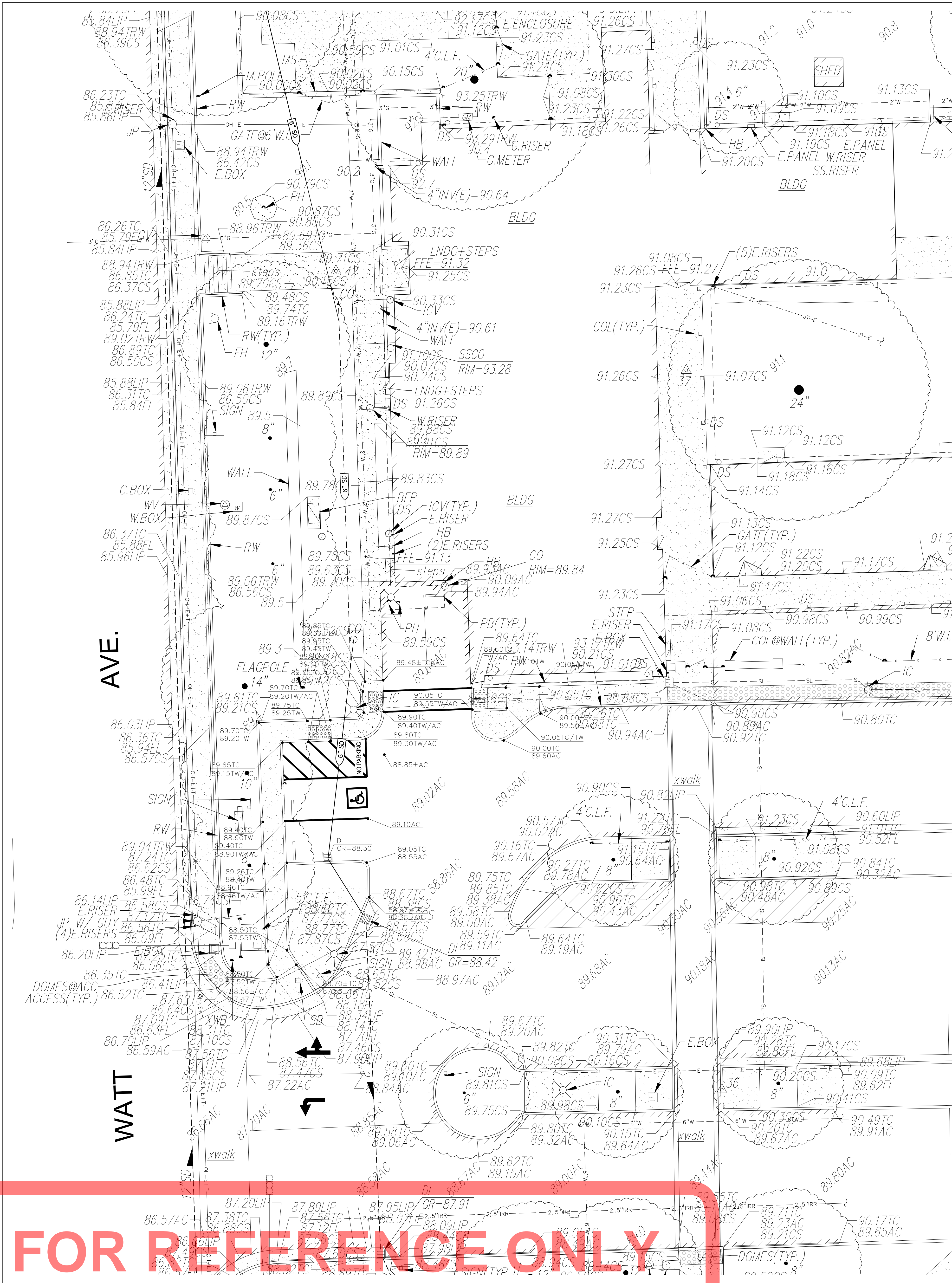
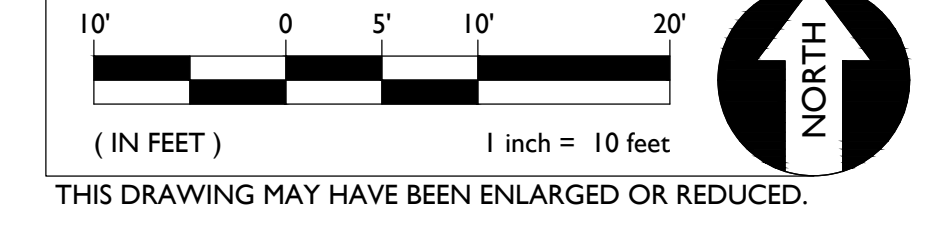
TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
1	CPS PICKER	14991.78	14911.08	83.36
2	CPS MAG NAIL	15046.46	15186.38	83.06
3	CPS PICKER	14626.49	14804.49	86.96
4	CPS MAG NAIL	14746.31	14913.45	85.41
5	CPS PICKER	14827.37	15062.37	85.49
6	CPS CHISELED "+"	15005.01	15556.36	90.30
7	CPS CHISELED "+"	15050.13	15438.47	89.68
8	CPS CHISELED "+"	14934.86	15565.94	90.64
9	CPF OIP	14554.10	15602.93	95.52
10	CPS CHISELED "+"	14959.30	15430.21	91.08
11	CPS CHISELED "+"	14565.92	15195.67	88.14
12	CPF OIP	14543.74	14997.32	85.98
13	CPS CHISELED "+"	14836.21	15157.64	87.19
14	CPS CHISELED "+"	14716.45	15209.27	91.07
15	CPS CHISELED "+"	14779.80	15208.92	91.05
16	CPS CHISELED "+"	14663.68	15428.18	91.16
20	CPS CHISELED "+"	14818.91	14939.36	85.26
21	CPS CHISELED "+"	14997.94	14944.75	83.72
22	CPS CHISELED "+"	15046.46	15134.24	83.47
23	CPS CHISELED "+"	14552.39	14789.88	87.68
24	CPS CHISELED "+"	14428.37	14622.30	88.16
25	CPS CHISELED "+"	14524.86	13959.93	88.46
26	CPS CHISELED "+"	14510.01	13905.25	87.03
27	CPS CHISELED "+"	14538.04	14008.13	87.79
28	CPS CHISELED "+"	14546.21	14323.88	87.98
29	CPS CHISELED "+"	14113.87	14331.26	90.12
30	CPS CHISELED "+"	14163.60	14348.57	91.02
31	CPS PK+WASHER	14260.32	14335.69	90.91
32	CPS PK+WASHER	14338.89	14334.64	90.42
33	CPS PK+WASHER	14402.41	14315.09	90.58
34	CPS PK+WASHER	14468.71	14315.00	90.57
35	CPS CHISELED "+"	14038.14	13989.18	88.85
36	CPS CHISELED "+"	14085.44	14081.03	90.20
37	CPS CHISELED "+"	14241.09	14073.32	91.11
38	CPS CHISELED "+"	14327.97	14069.98	91.21
39	CPS CHISELED "+"	14391.69	14067.37	91.10
40	CPS CHISELED "+"	14383.93	13978.38	90.05
41	CPS CHISELED "+"	14461.19	14063.65	91.06
42	CPS CHISELED "+"	14262.60	13997.53	90.06

A.P.N. 218-0010-012

BENCHMARK NO. SAC. CO. 12-56
ELEV. 82.60
FOUND RAMSET AND 3/4" METAL DISC STAMPED "CO. B.M. 12-56" LOCATED IN CHISELED SQUARE IN TOP OF SOUTHEAST CORNER OF 30"x30" CONC. BASE OF TRAFFIC SIGNAL LIGHT STANDARD NEAR BACK OF WALK WEST END OF CURB RETURN 0.25 MILE EAST OF WATT AVENUE AT THE NORTHWEST CORNER OF DON JULIO BOULEVARD AND BOLIVAR AVENUE.

GRAPHIC SCALE



PROJECT No. 11-104-01
4/1/2024 10:35:14 AM

DATE	BY	REVISION

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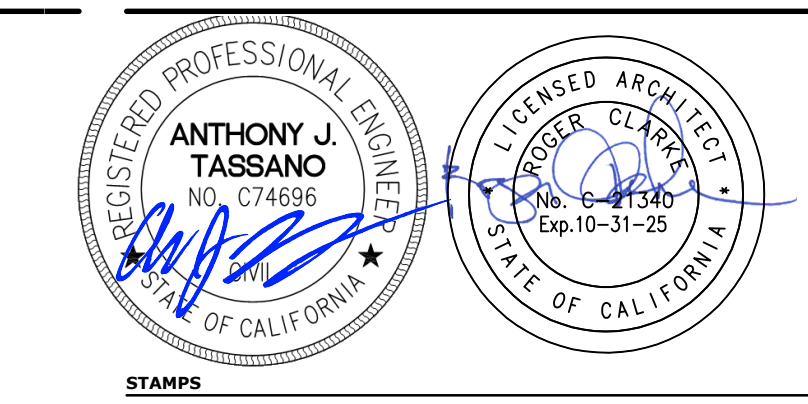
3775 TENTH STREET, REDWOOD CITY, CALIFORNIA 94061 (951) 684-4664 / 5751 PALMER WAY, SUITE C, CARLSBAD, CALIFORNIA 92010 (760) 438-9899

**FC JOYCE PK-8 SCHOOL
KITCHEN MODERNIZATION**
FC JOYCE PK-8 SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

C0.1

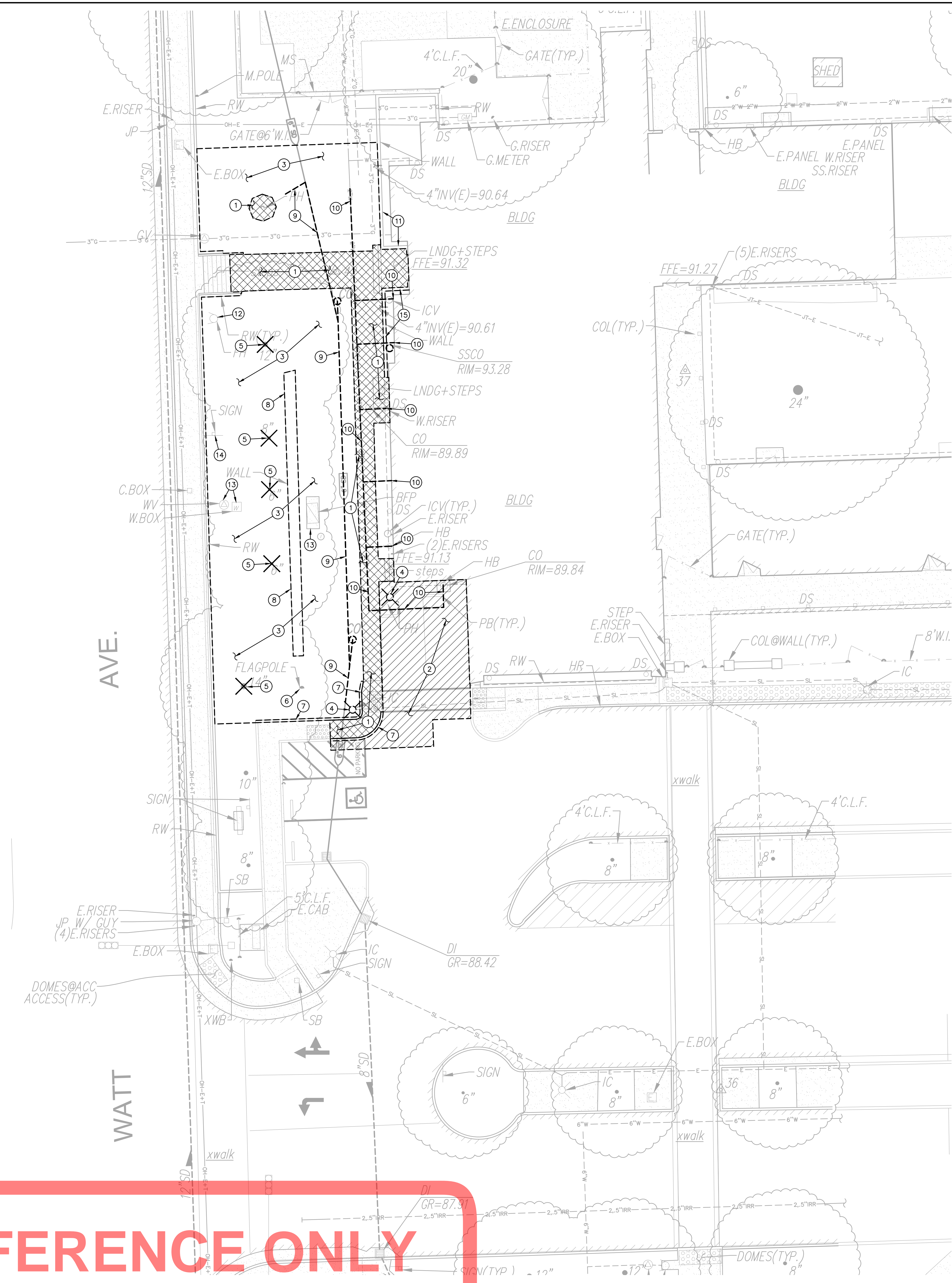
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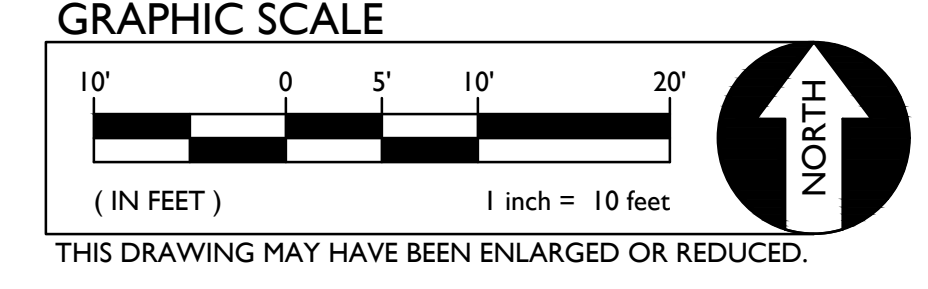


**RUHNAU
CLARKE**
ARCHITECTS



- DEMOLITION NOTES**
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND AGGREGATE BASE. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
 - REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
 - REMOVE AND DISPOSE OF TURF/VEGETATION AS REQUIRED TO ALLOW FOR PROPOSED CONSTRUCTION. IRRIGATION PIPING AND SPRINKLER HEADS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED OUTSIDE OF NEW WORK TO ALLOW FOR CONTINUED COVERAGE OF TURF. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - REMOVE AND DISPOSE OF EXISTING LIGHT POLE AND ASSOCIATED FOOTING.
 - REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
 - REMOVE AND DISPOSE OF EXISTING FLAG POLE AND ASSOCIATED FOOTING.
 - REMOVE AND DISPOSE OF EXISTING CURB TO EXTENT SHOWN.
 - REMOVE AND DISPOSE OF EXISTING SITE WALL AND ASSOCIATED FOOTING.
 - REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE TO EXTENT SHOWN.
 - REMOVE AND DISPOSE OF EXISTING DOMESTIC WATER PIPE TO EXTENT SHOWN.
 - EXISTING BRICK PLANTER WALL TO REMAIN.
 - EXISTING FIRE HYDRANT TO REMAIN.
 - EXISTING WATER SERVICE AND RP DEVICE TO REMAIN.
 - EXISTING SIGN TO REMAIN.
 - REMOVE AND DISPOSE OF EXISTING BRICK PLANTER WALL.

- DEMOLITION GENERAL NOTES**
- REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
 - IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
 - ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
 - ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
 - ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
 - THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTOR'S WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
 - EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 - EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
 - SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
 - PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
 - WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED, MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.
 - COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.



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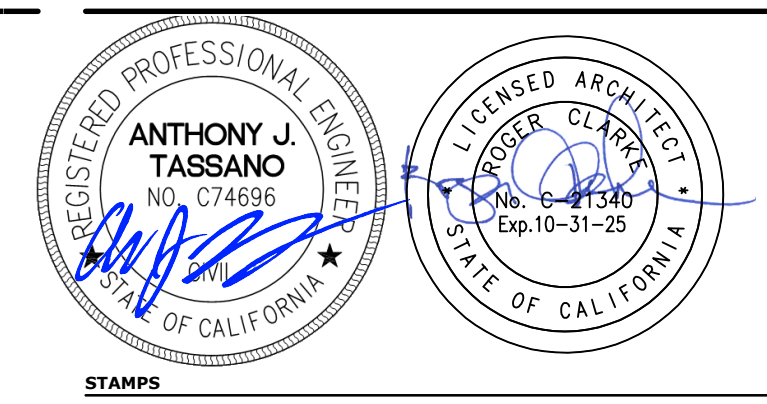
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KITCHEN MODERNIZATION**
FC JOYCE PK-8 SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

DEMOLITION PLAN

C1.1



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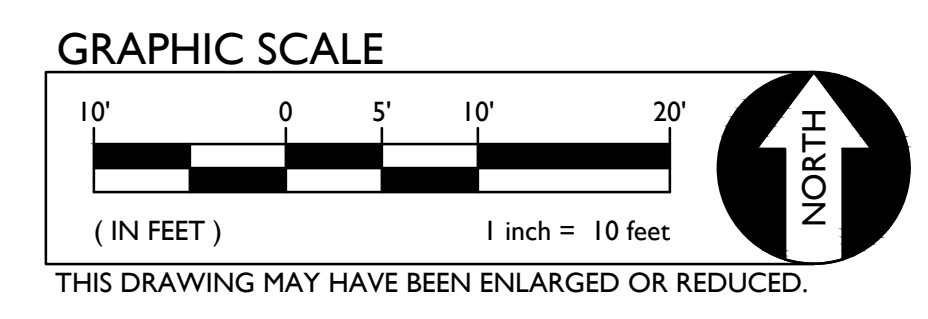
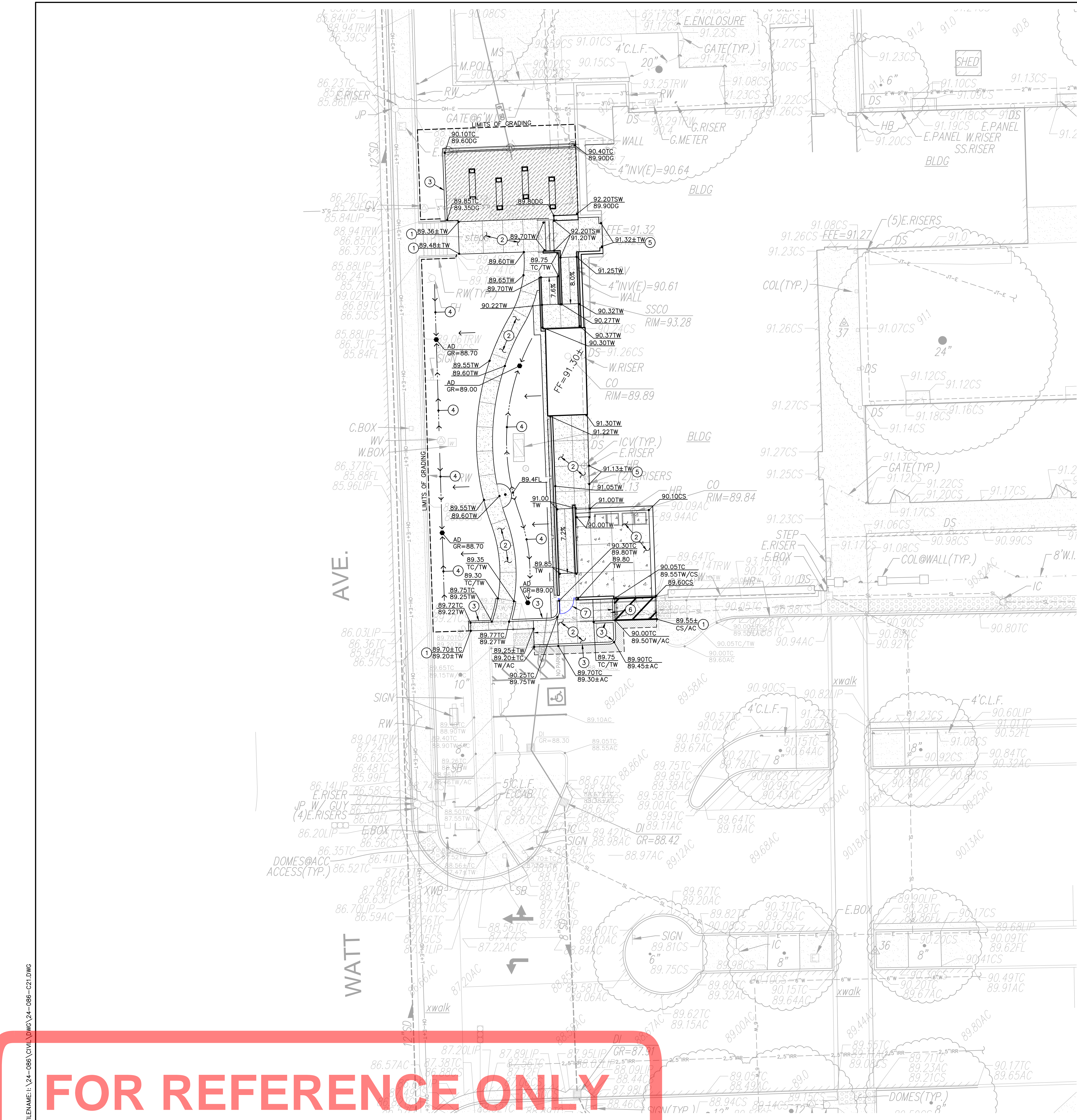
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SUBGRADE PREPARATION

1. FOLLOWING SITE DEMOLITION ACTIVITIES:
EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D1557 TEST METHOD. THE UPPER 6 INCHES OF SUBGRADE BENEATH ASPHALT PAVING SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY.

CONSTRUCTION / GRADING NOTES

- MATCH EXISTING GRADE/ELEVATION.
- CONSTRUCT CONCRETE SIDEWALK PER (1) (CS.1)
- CONSTRUCT 6" WIDE VERTICAL CURB PER (3) (CS.1)
- CONSTRUCT SWALE.
- PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.
- PLACE TRUNCATED DOMES PER (2) (CS.1)
- CONSTRUCT 42" WIDE ACCESSIBLE MANGATE PER (10) (CS.1)



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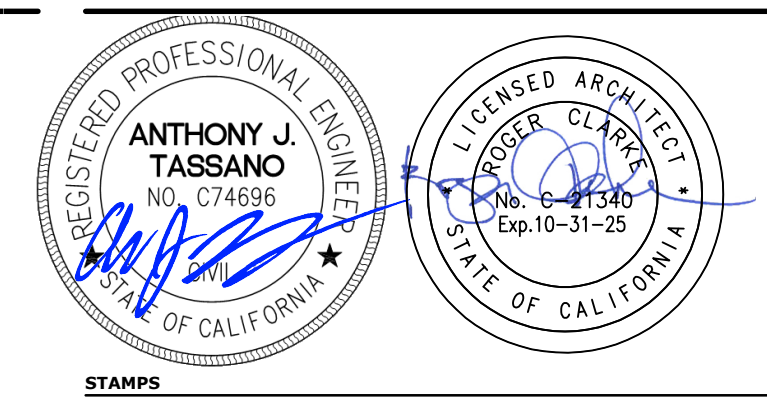
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GRADING PLAN

C2.1

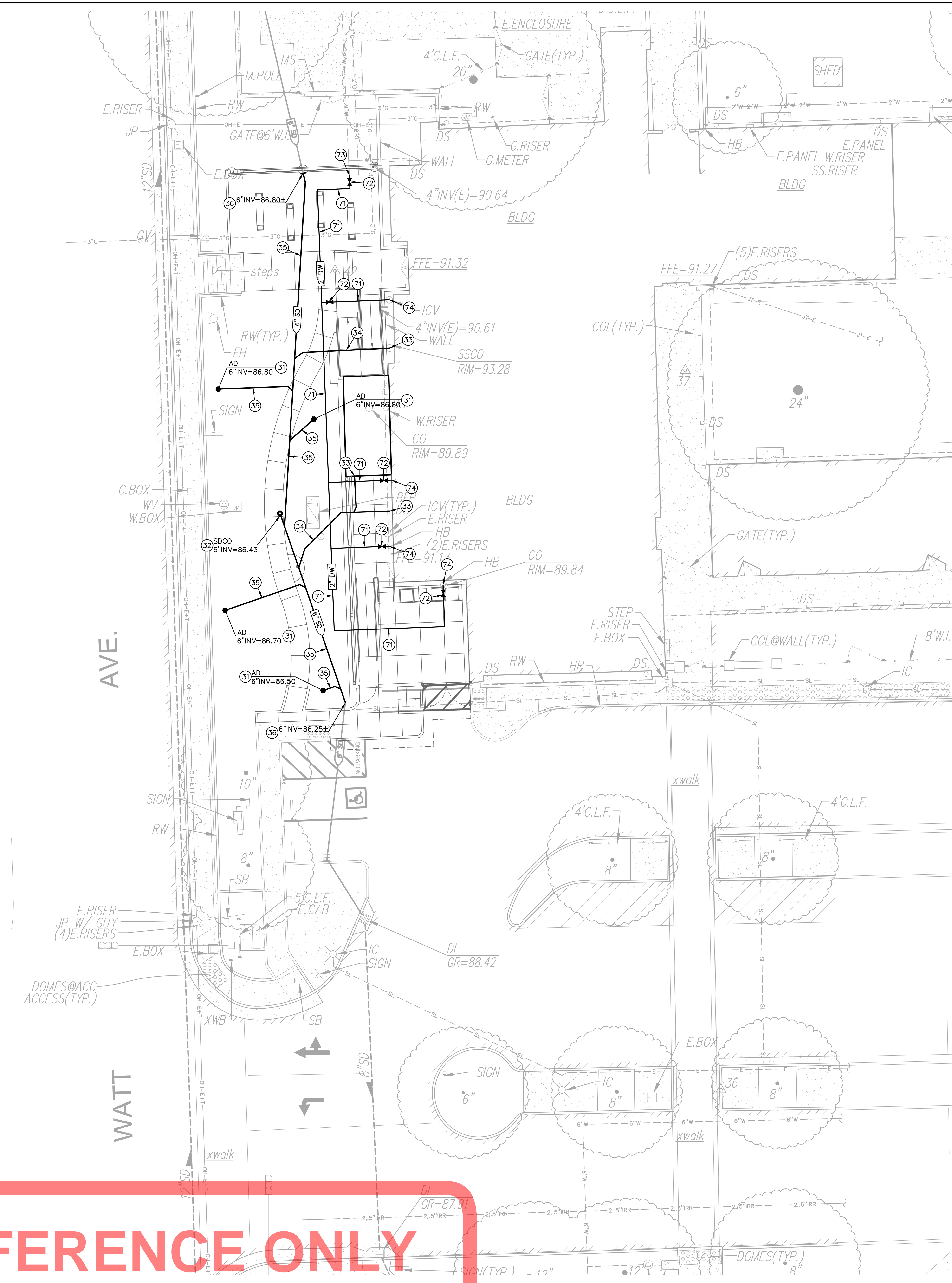


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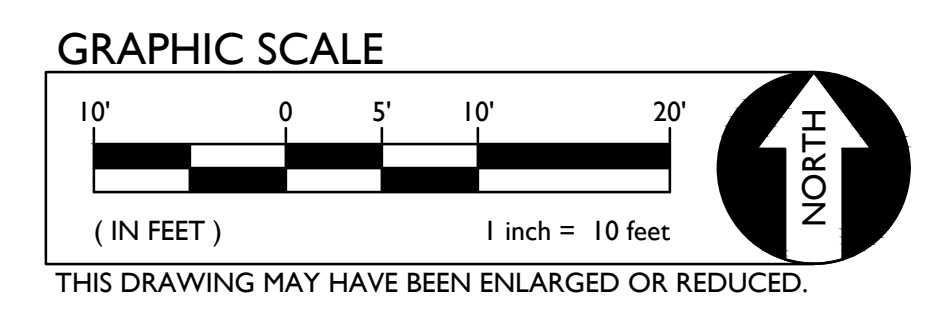


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- DRAINAGE NOTES**
- 31. CONSTRUCT AREA DRAIN PER
 - 32. CONSTRUCT STORM DRAIN CLEANOUT PER
 - 33. PROVIDE DOWNSPOUT CONNECTION PER
 - 34. PLACE 4" STORM DRAIN PER
 - 35. PLACE 6" STORM DRAIN PER
 - 36. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
- WATER NOTES**
- 71. PLACE 2" WATER PER
 - 72. PLACE GATE VALVE AND VALVE BOX. SIZE TO MATCH LINE SIZE.
 - 73. CONNECT TO EXISTING DOMESTIC WATER PIPE. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
 - 74. CONNECT TO BUILDING DOMESTIC WATER SERVICE. REFER TO PLUMBING PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.



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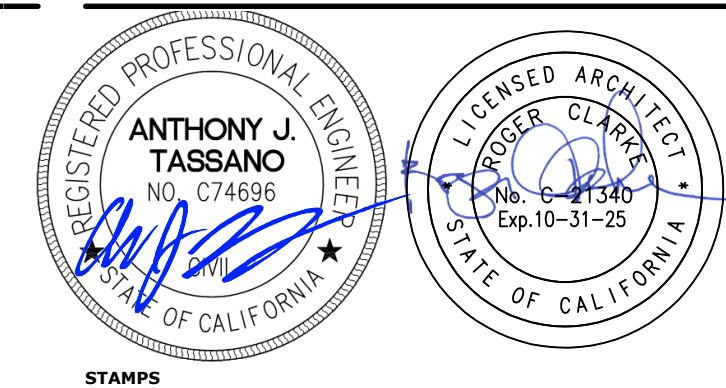
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UTILITY PLAN

C3.1

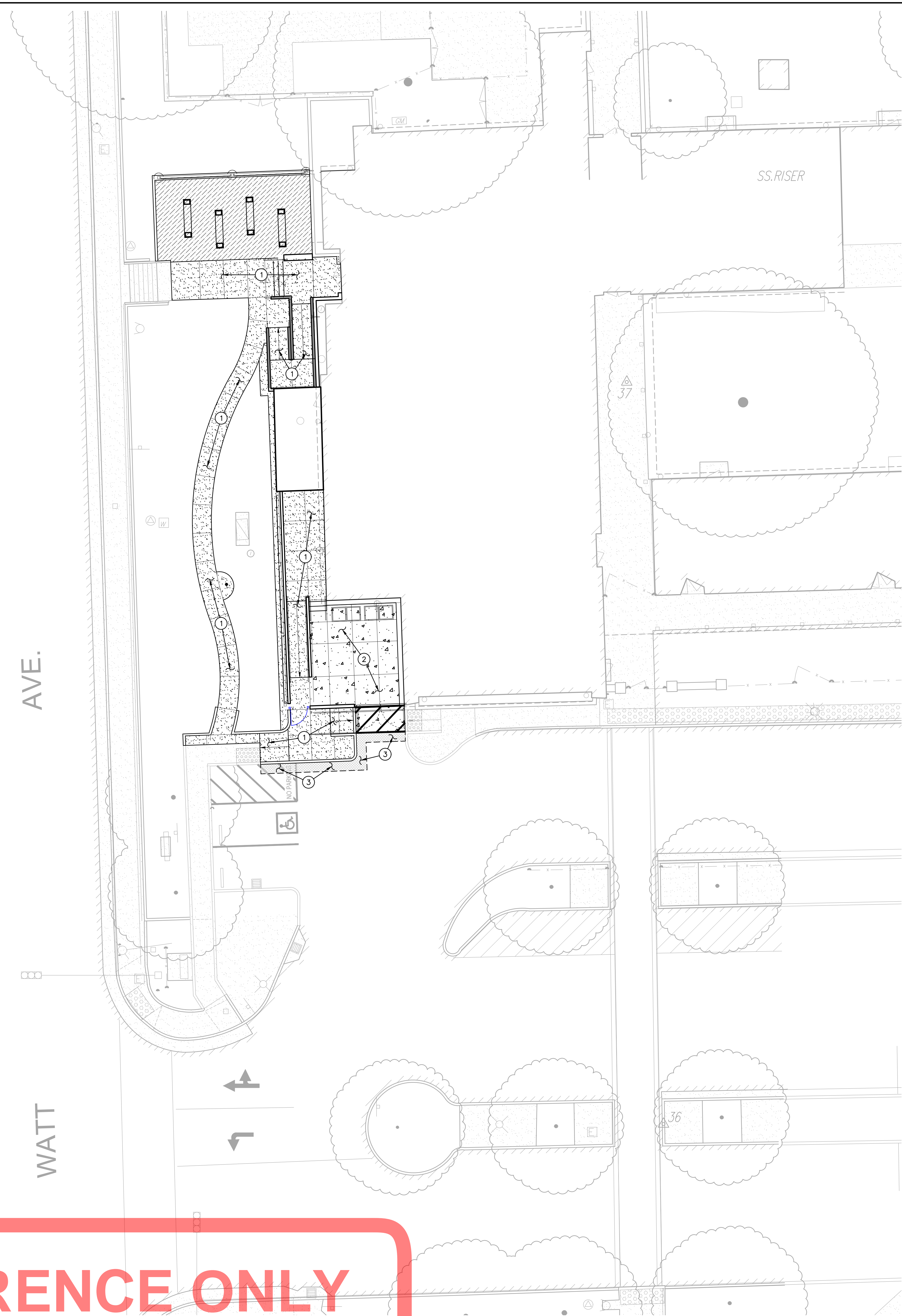


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FIG No. 11 00000000000000000000



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PAVING GENERAL NOTES:

- ALL NEW ASPHALT PAVING TO BE PROVIDED WITH SEALCOAT PER SPECIFICATIONS.
- PRIOR TO NEW SEALCOAT ON EXISTING ASPHALT SURFACES, FILL ALL CRACKS 1/4" INCHES OR WIDER WITH AN APPROVED CRACK FILLER.
- SLOPE IN ACCESSIBLE STALLS AND UNLOAD ZONES SHALL NOT EXCEED 1.9% IN ANY DIRECTION.
- SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS:
CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL - 1.9%
DIRECTION OF TRAVEL - 4.9%
RAMP IN DIRECTION OF TRAVEL - 8.0%
PLAZA 1.9% - IN ANY DIRECTION
- ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

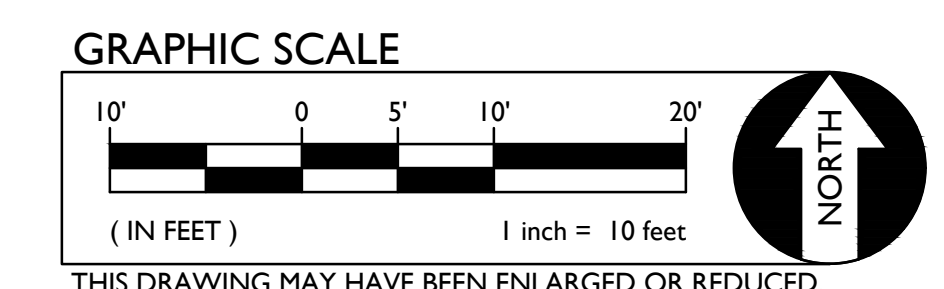
PAVING LEGEND

- 1 TYPE 1 PAVING**
PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 12" CLASS II AB ON COMPACTED SUBGRADE.
- 2 TYPE 2 PAVING**
PLACE 6" PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 12" CLASS II AB ON COMPACTED SUBGRADE.
- 3 TYPE 3 PAVING**
PLACE 3" AC OVER 12" CLASS II AB ON COMPACTED SUBGRADE. PLACE TWO (2) APPLICATIONS OF SEAL COAT.

AVE.

WATT

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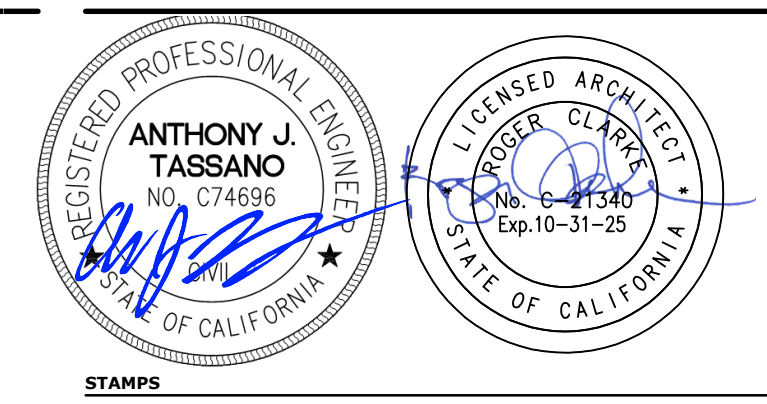
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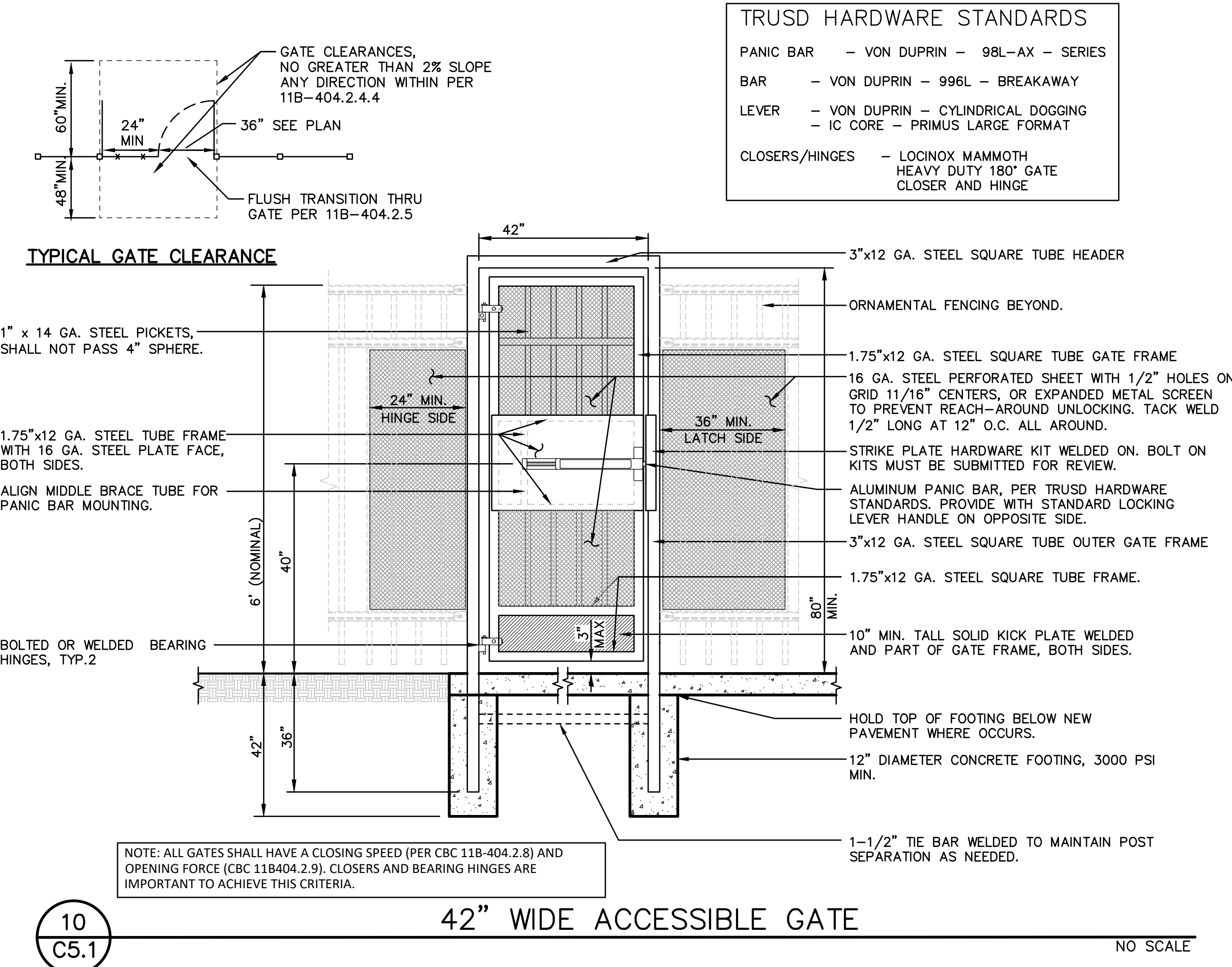
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PAVING PLAN

C4.1



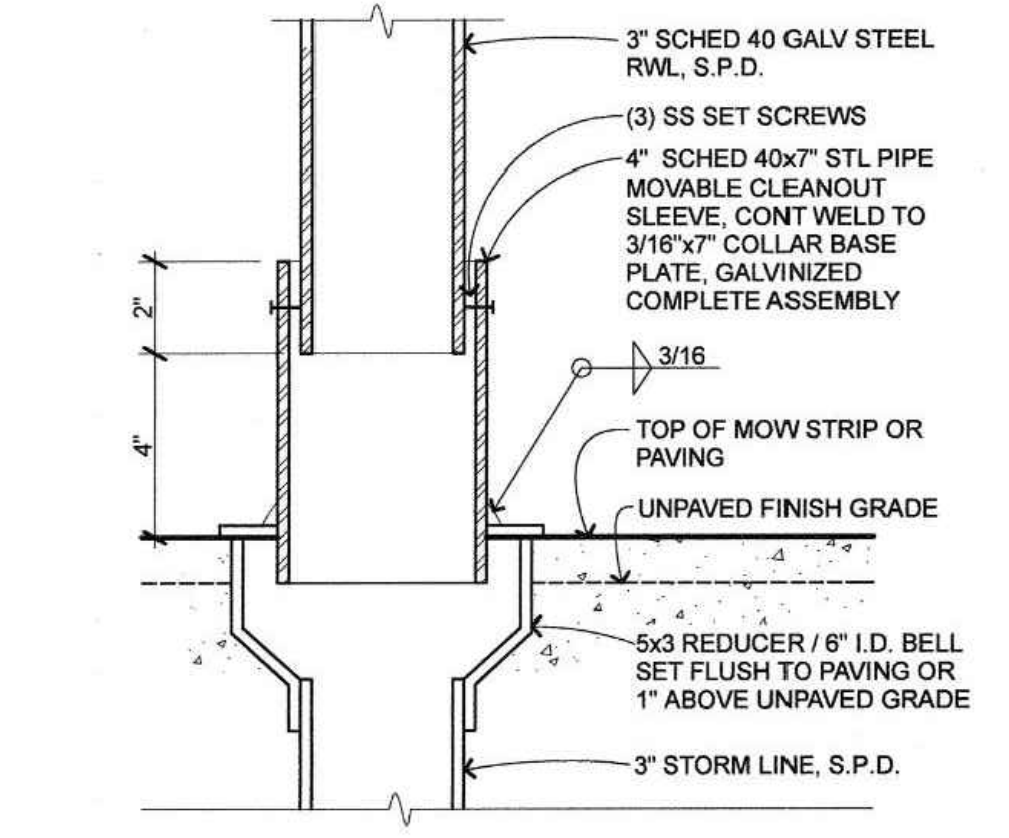
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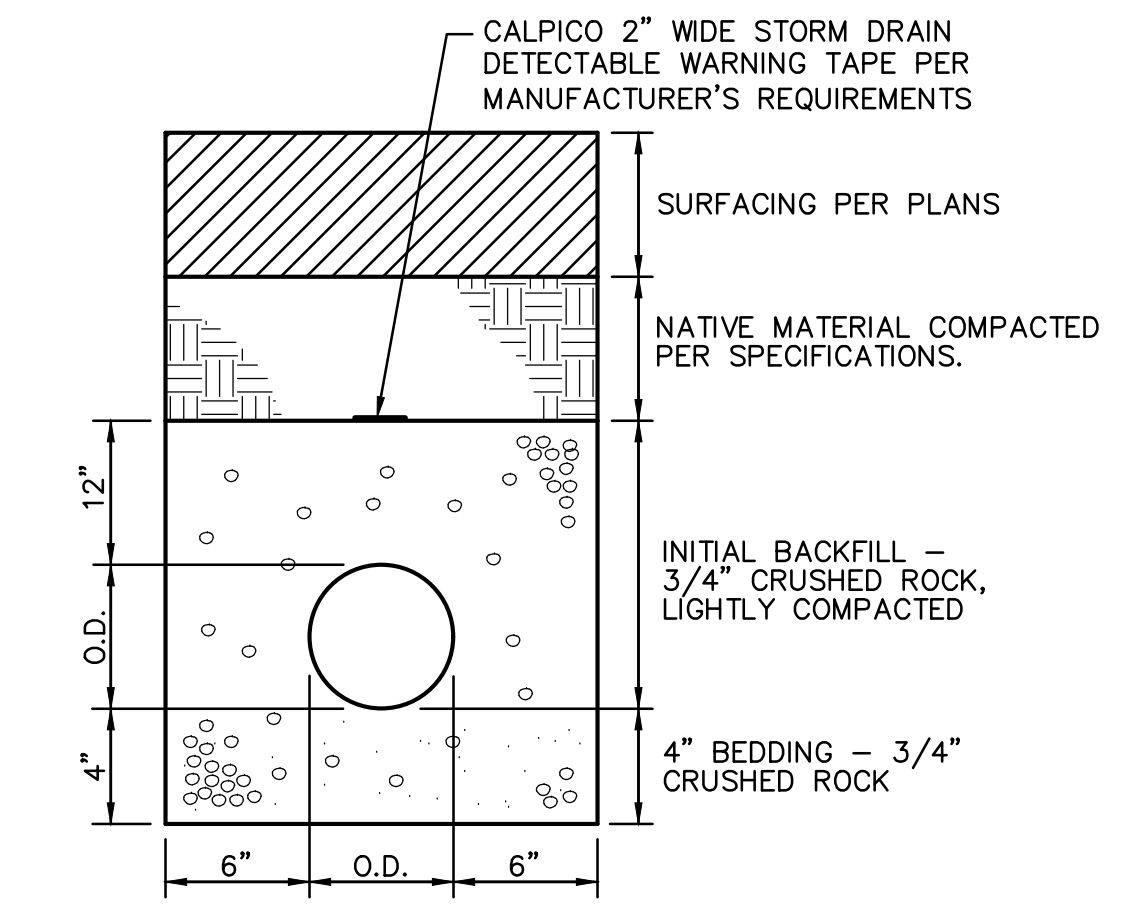
10
C5.1 **42" WIDE ACCESSIBLE GATE** NO SCALE

TRUSS HARDWARE STANDARDS

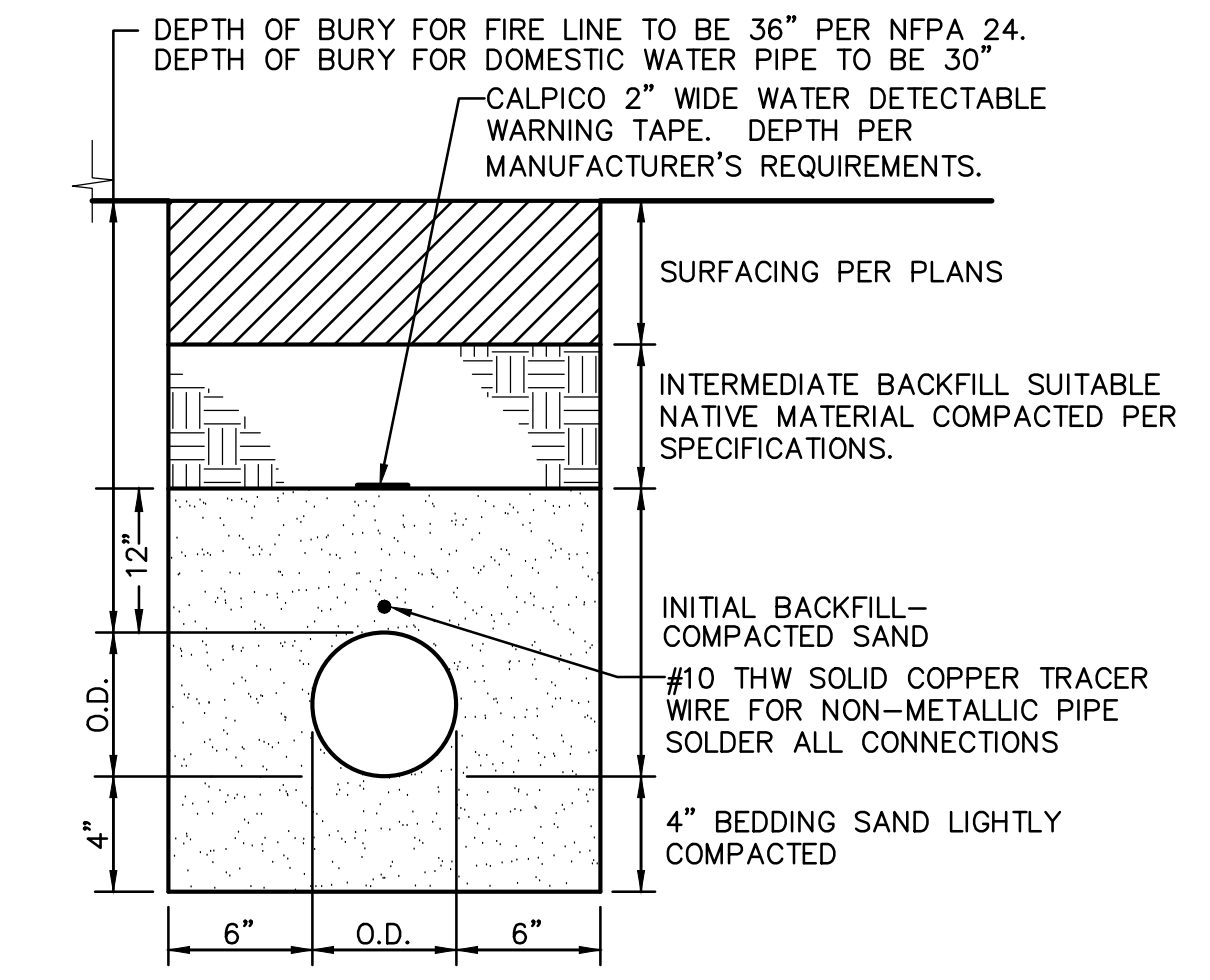
PANIC BAR	- VON DUPRIN - 98L-AX - SERIES
BAR	- VON DUPRIN - 996L - BREAKAWAY
LEVER	- VON DUPRIN - CYLINDRICAL DOGGING
	- IC CORE - PRIMUS LARGE FORMAT
CLOSERS/HINGES	- LOCONOX MAMMOTH HEAVY DUTY 180° GATE CLOSER AND HINGE



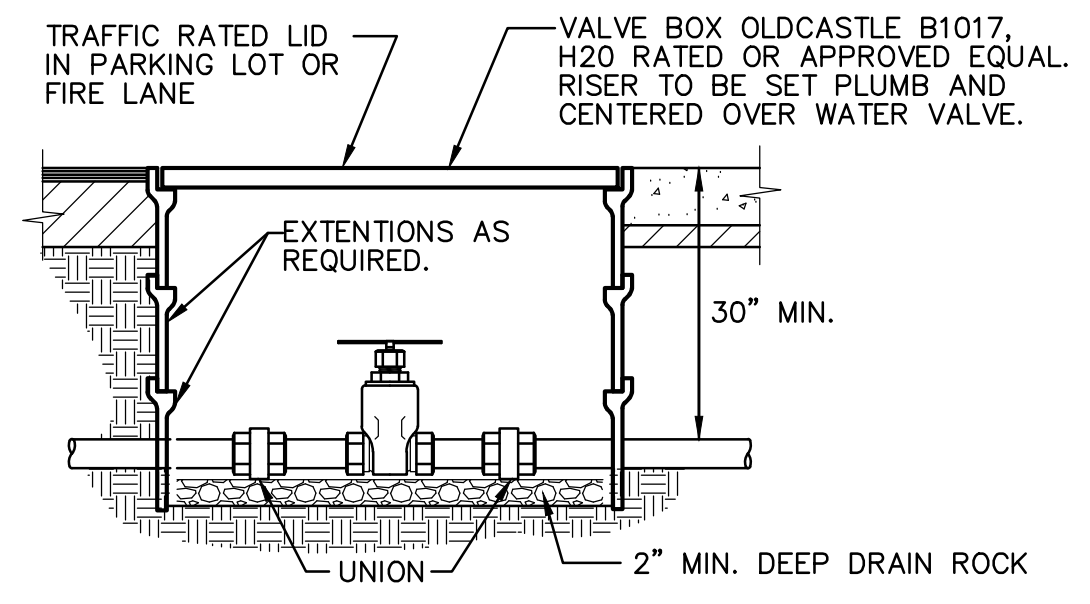
6
C5.1 **DOWNSPOUT CONNECTION** NO SCALE



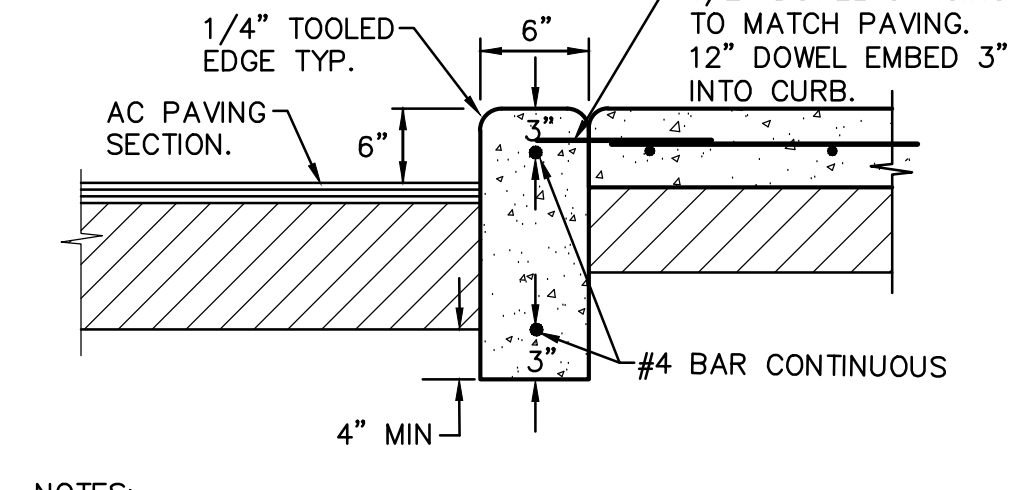
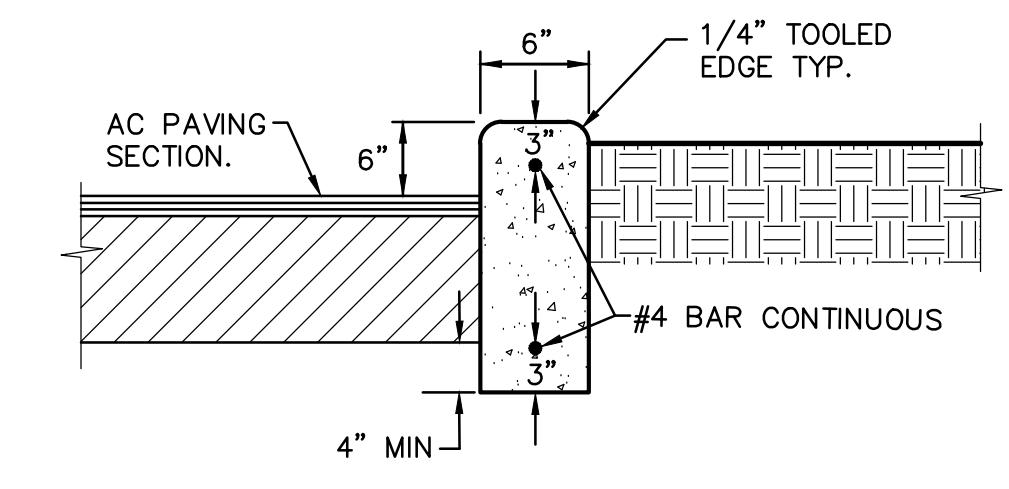
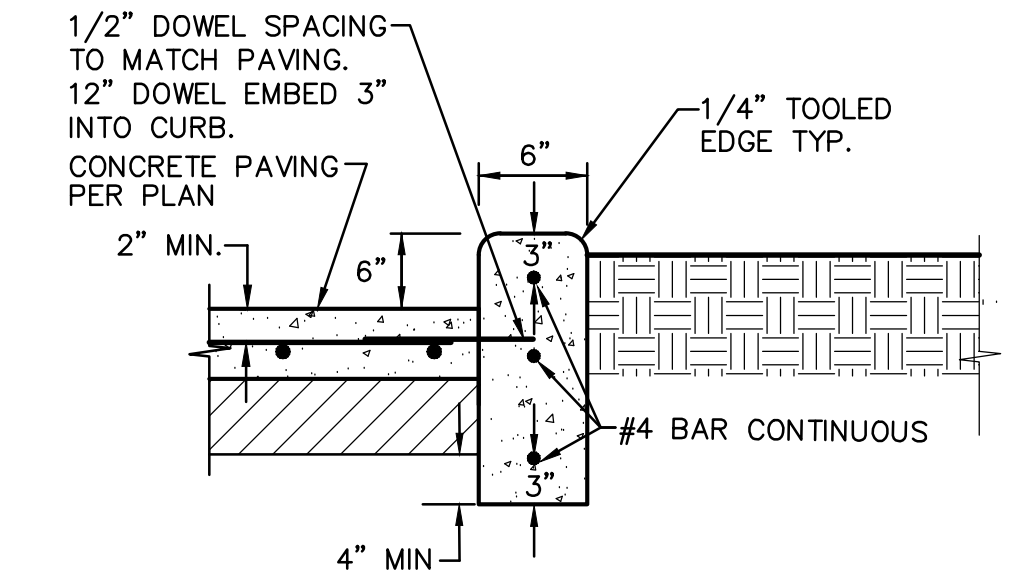
7
C5.1 **STORM DRAIN TRENCH** NO SCALE



8
C5.1 **WATER TRENCH** NO SCALE

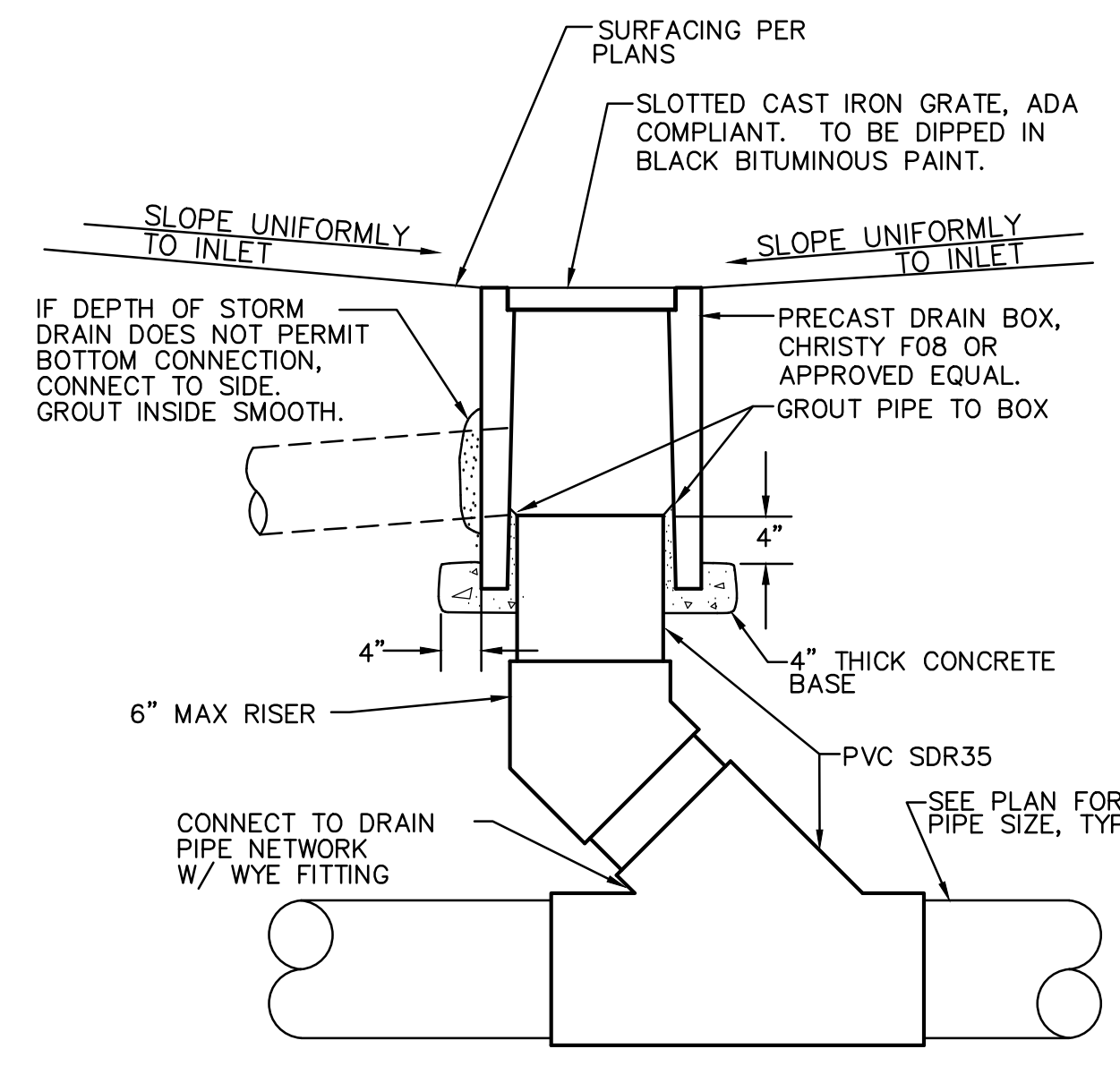


9
C5.1 **WATER VALVE** NO SCALE

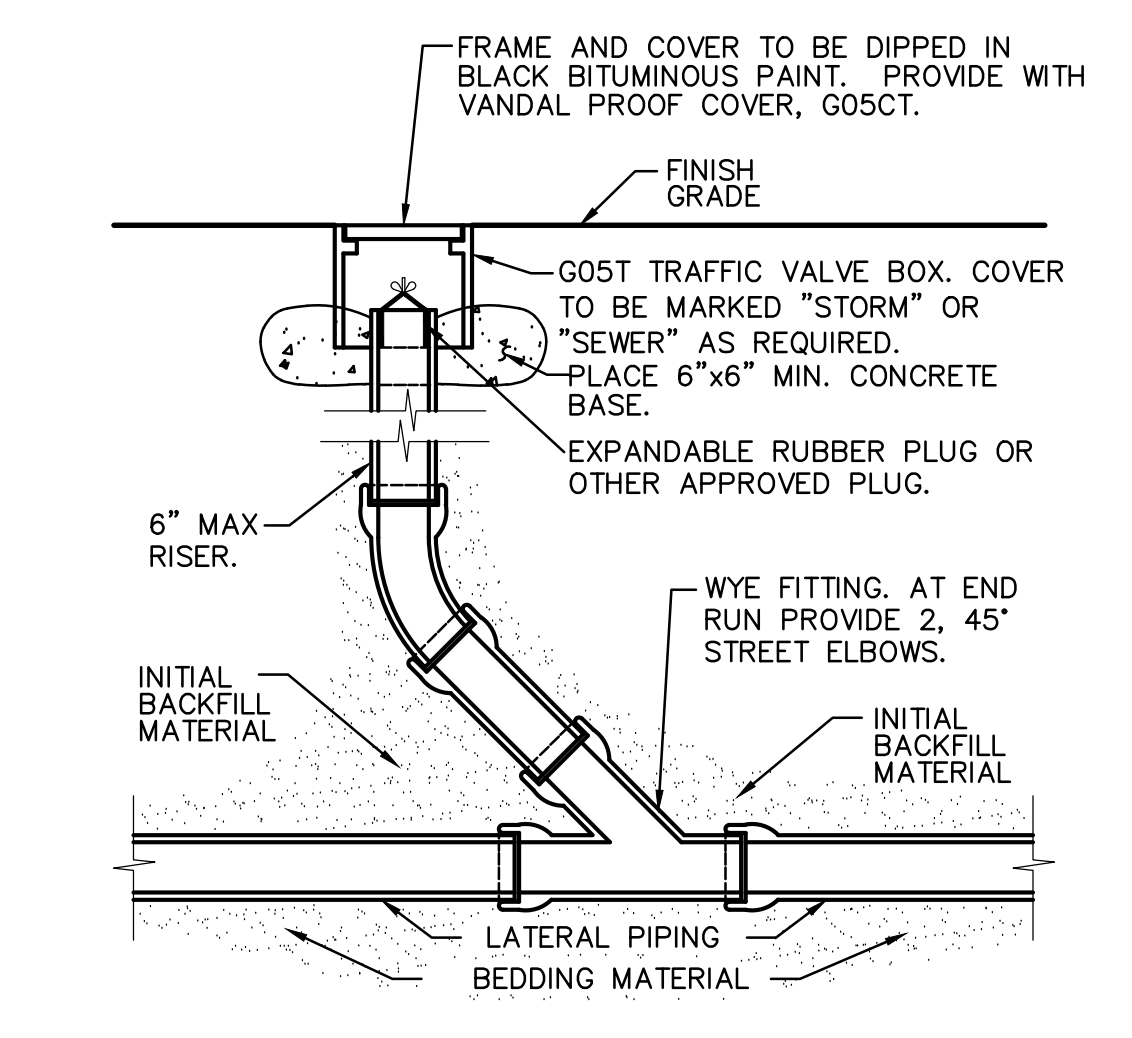


NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
2. AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

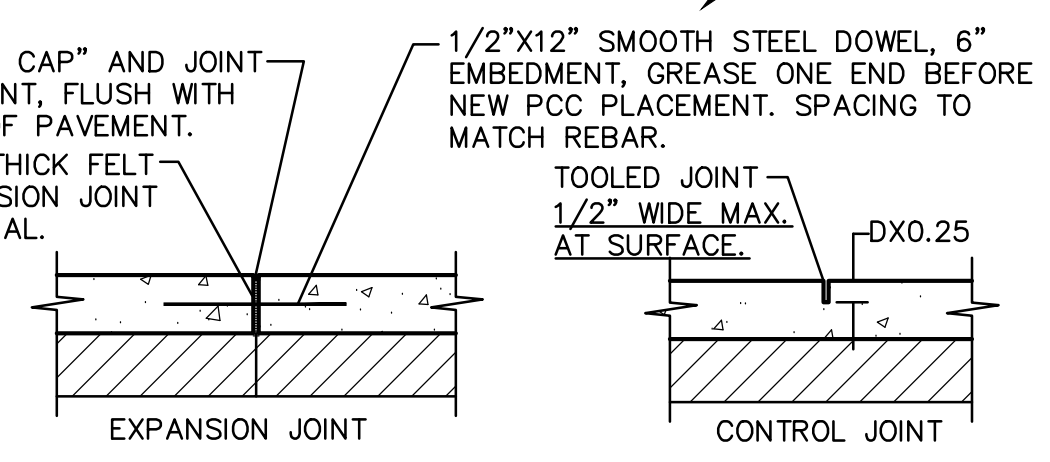
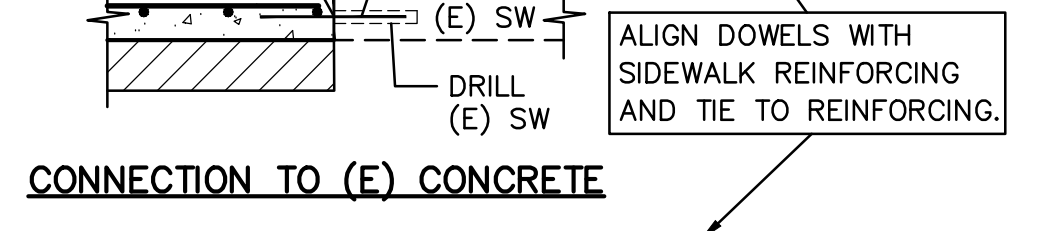
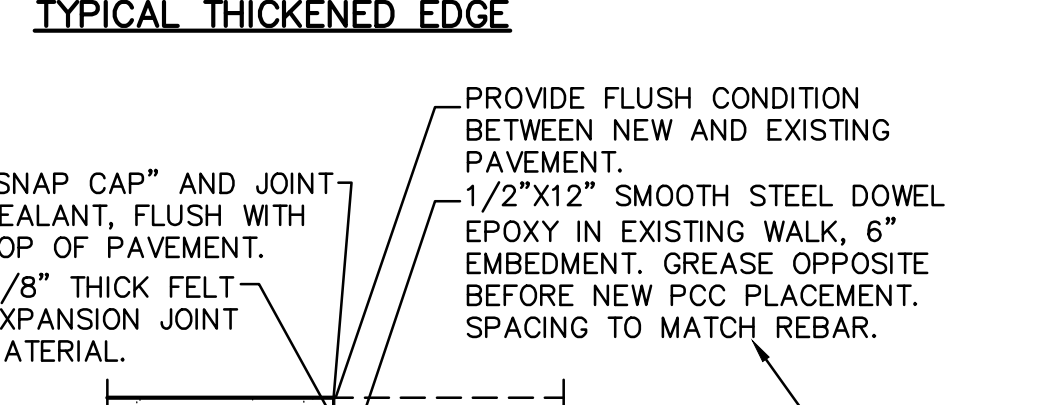
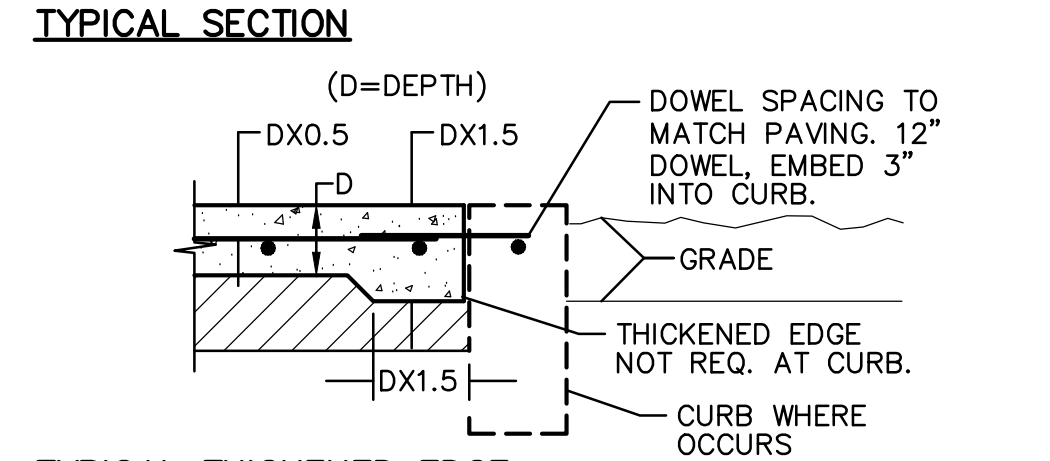
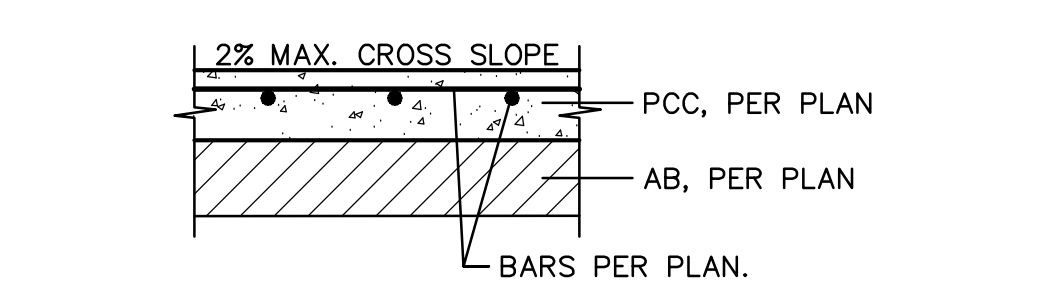
3
C5.1 **CONCRETE CURB** NO SCALE



4
C5.1 **AREA DRAIN** NO SCALE

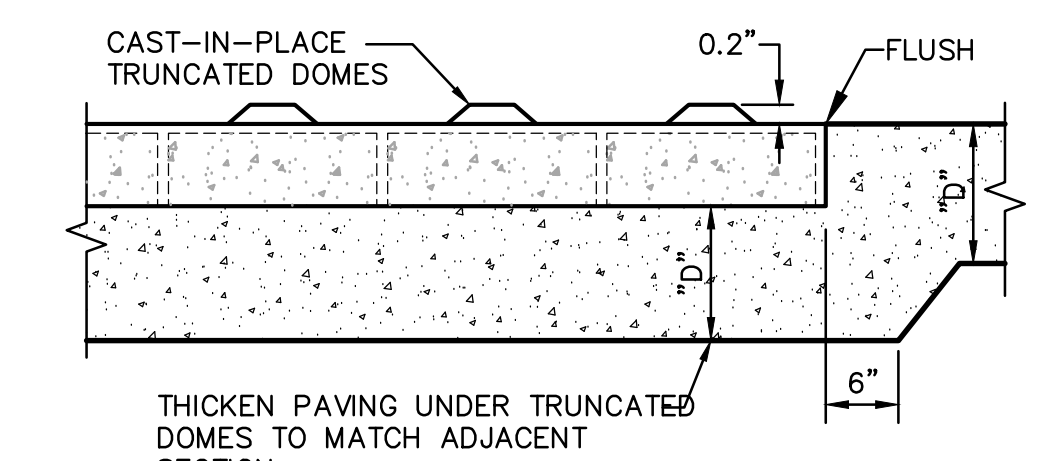
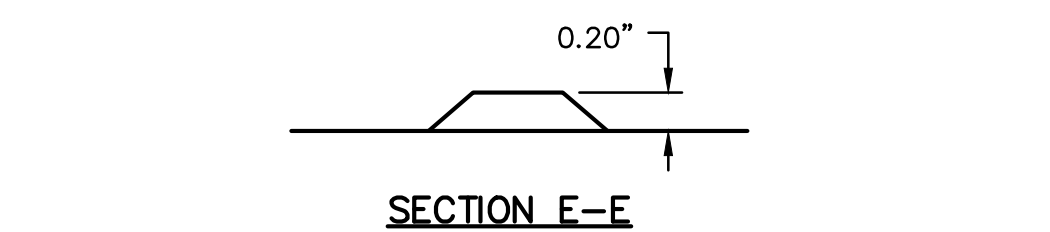
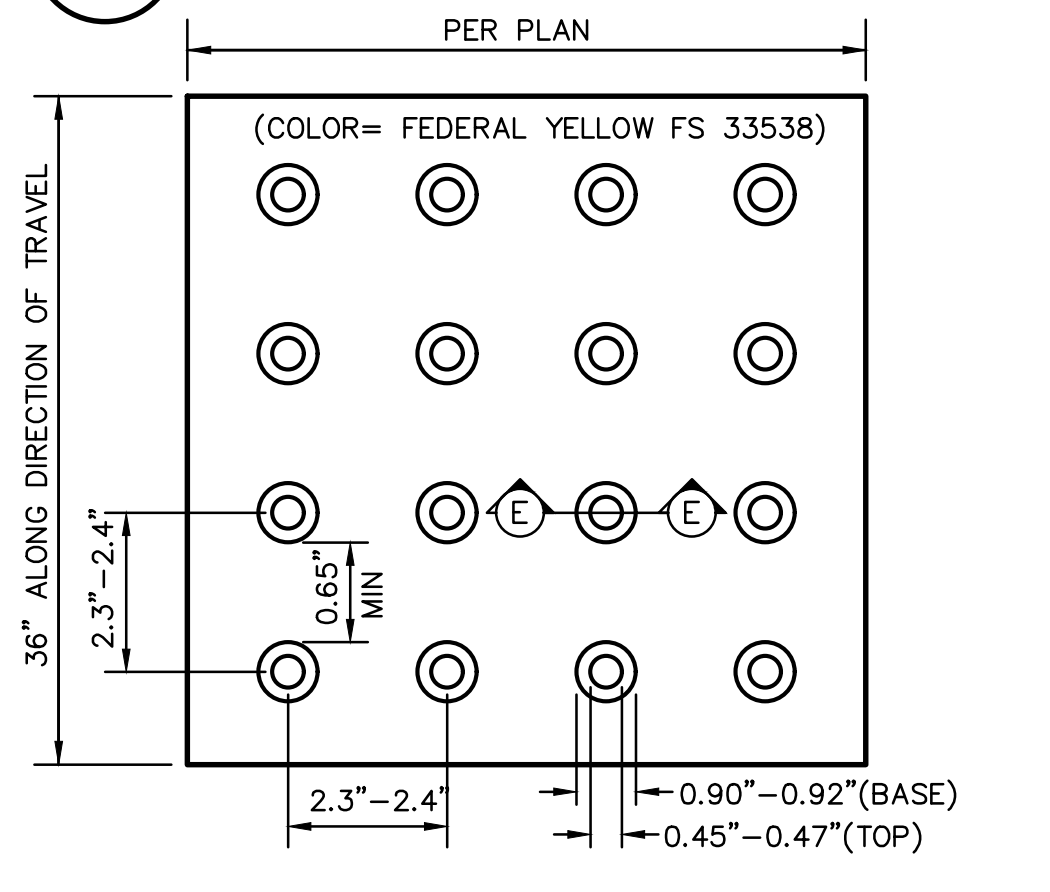


5
C5.1 **CLEANOUT** NO SCALE



NOTES:
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1
C5.1 **CONCRETE SIDEWALK** NO SCALE



2
C5.1 **TRUNCATED DOMES** NO SCALE

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DETAILS AND SECTIONS **C5.1**

PLANT LEGEND

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	WATER USE	QTY
TREES						
	ULM CAR	ULMUS X FRONTIER / FRONTIER ELM	15 GAL.			2
SHRUBS						
	DIA BBL	DIANELLA REVOLUTA DTN03 / BABY BLISS™ FLAX LILY	1 GAL.	M		8
	LOM EUM	LOMANDRA LONGIFOLIA 'LIME TOUCH' PP 20334 TM / DWARF MAT RUSH	1 GAL.	M		48
	MYO UEM	MYOPORUM PARVIFOLIUM 'WHITE' / WHITE TRAILING MYOPORUM	1 GAL.	M		5
	RHA MIN	RHAPHOLEPIS UMBELLATA MINOR / DWARF YEDDA HAWTHORN	5 GAL.	M		19

TREE PROTECTION NOTES:

- GENERAL: EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE. DO NOT STOCKPILE, DRIVE OVER, OR OTHERWISE DISTURB SOIL UNDER DRIP LINES OF EXISTING TREES EXCEPT AS REQUIRED FOR PLANTING OPERATIONS.
- FENCING: PROVIDE MIN. 4" HIGH ORANGE PLASTIC "SNOW FENCE" ATTACHED TO T-POSTS AT 8' O.C. (MIN. SPACING) SURROUNDING ALL TREES TO REMAIN. LOCATE FENCING 1' OUTSIDE DRIP LINE OF TREES.
- HAND-WORK: USE HAND TOOLS ONLY FOR SOIL CULTIVATION UNDER DRIP LINES OF EXISTING TREES TO REMAIN.
- ROOTS: ANY ROOTS ENCOUNTERED SHALL BE TRIMMED WITH A SHARP, CLEAN INSTRUMENT. NO ROOTS OVER 2" IN DIAMETER SHALL BE CUT EXCEPT UNDER THE DIRECTION OF AN ARBORIST. ALL CUT ROOTS SHALL BE COVERED WITH BURLAP OR STRAW AND SHALL REMAIN MOIST UNTIL RE-SUBURBED IN SOIL.

LATERAL SIZING

PVC CLASS 200 LATERALS, <5 FPS		PVC SCH. 40 LATERALS, <5 FPS	
PIPE DIAMETER	MAXIMUM GPM	PIPE DIAMETER	MAXIMUM GPM
1/2"	NOT ALLOWED	1/2"	NOT ALLOWED
3/4"	6	3/4"	7
1"	12	1"	12
1-1/4"	20	1-1/4"	22
1-1/2"	34	1-1/2"	30

IRRIGATION RENOVATION NOTES

- CONTRACTOR SHALL INVESTIGATE AND FIELD VERIFY ALL EXISTING IRRIGATION EQUIPMENT AND MATERIALS TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NEW CONCRETE WALKWAY SITE IMPROVEMENTS SHALL BE LAID OUT AND IRRIGATION EQUIPMENT IMPACTED SHALL BE FLAGGED.
 - WHERE HEADS/EQUIPMENT ARE IMPACTED, CONTRACTOR SHALL REMOVE OR CAP AS REQUIRED TO ALLOW FOR IMPROVEMENTS.
 - NEW PIPE/EMISSION DEVICES SHALL BE INSTALLED AS REQUIRED TO PROVIDE HEAD TO HEAD COVERAGE OF THE NEW AND EXISTING TURF/PLANTING.
- CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION OF EXISTING MAINLINE ON SITE.
- CONTRACTOR SHALL VERIFY OPEN STATION COUNT ON THE EXISTING CONTROLLER TO CONFIRM THE ABILITY TO ADD VALVE STATIONS IF REQUIRED.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL RUN IRRIGATION SYSTEM TO DETERMINE EACH EXISTING VALVE OPERATION ZONE, IDENTIFY BREAKS, AND COVERAGE ISSUES TO ASSESS EXISTING SYSTEM.
- ONCE EXISTING SYSTEM HAS BEEN FIELD VERIFIED AND MAPPED, CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY OWNER AND LANDSCAPE ARCHITECT IN WRITING OF ANY FINDINGS OR CONCERNS WITH EXISTING SYSTEM.
- IF REQUIRED, NEW VALVES SHALL BE LOCATED WITHIN PLANTING AREAS.
- NEW EQUIPMENT SHALL MATCH EXISTING EQUIPMENT ON SITE, OR SHALL BE PER DISTRICT STANDARD.

CONSTRUCTION NOTES

- LOCAL CODES AND ORDINANCES: WORK SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES, AND REQUIREMENTS, INCLUDING FEDERAL ACCESSIBILITY GUIDELINES. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS AN EXEMPTION TO APPLICABLE CODES OR OTHER JURISDICTIONAL REQUIREMENTS.
- UTILITIES: CONTACT COMMON GROUND ALLIANCE (C.G.A.) AT 811. AT LEAST TWO WORKING DAYS IN ADVANCE OF WORK (PER CA GOV. CODE 4216), THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND SHALL PAY FOR ANY REPAIRS REQUIRED TO THE CONTRACTOR'S OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- DISCREPANCIES: NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS. DO NOT PROCEED WHERE DIFFERENCES EXIST THAT WOULD AFFECT THE WORK. ALL ADJUSTMENTS DUE TO FIELD CONDITIONS MUST BE APPROVED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO CONTINUING.
- LAYOUT NOTES: THE WRITTEN DIMENSION SUPERCEDES SCALED OR GRAPHIC DENOTATION. DIMENSIONS ARE BETWEEN PARALLEL OR PERPENDICULAR POINTS UNLESS NOTED OTHERWISE. DIMENSIONS ARE TO CENTERLINE OR FACE OF MASONRY, CONCRETE, OR FRAMING SUBSTRATE FINISH SURFACES, UNLESS NOTED OTHERWISE.
- COORDINATION: CONTRACTOR SHALL COORDINATE WORK BETWEEN TRADES. ALL REQUIRED SLEEVING SHALL BE COORDINATED WITH SITE WORK, INCLUDING OTHER UNDERGROUND UTILITIES, CURBS, AND CONCRETE.
- VERTICAL CURVE: ALL VERTICAL CONSTRUCTION SHALL BE INSTALLED TRUE AND PLUMB. ALL UNIT COURSING AND TOPS OF WALLS, FENCES, ETC. SHALL BE LEVEL UNLESS NOTED OTHERWISE. ALL CURVES SHALL BE CONTINUOUS AND EVEN, WITH NO BREAKS OR ANGLES AT POINTS OF TANGENCY OR FORMWORK JOINTING.
- LEAD TIME: SPECIFIED MATERIALS MAY REQUIRE A SIGNIFICANT LEAD TIME. CONTRACTOR IS SOLELY RESPONSIBLE TO LEAD TIMES AND TO PROVIDE SUBMITTALS, AND ORDER MATERIAL, AND ENSURE DELIVERY TO THE JOB SITE TO ALLOW TIMELY PROGRESSION OF WORK.
- SUBSTITUTIONS: IF PROPOSED, SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR TO THE OWNER AND LANDSCAPE ARCHITECT, AND SHALL DEMONSTRATE HOW MATERIAL IS EQUAL OR BETTER TO ORIGINALLY SPECIFIED MATERIALS. ANY SUBSTITUTIONS NOT APPROVED IN WRITING ARE SUBJECT TO REJECTION.
- EXISTING WORK: WHERE NEW CONSTRUCTION ADJUTS EXISTING WORK, ALL EXISTING WORK SHALL BE PROTECTED. CONTRACTOR SHALL REPLACE ANY DAMAGED EXISTING WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL NEW WORK WILL CONFORM TO TO EXISTING WORK, INCLUDING FLATWORK JOINTS, ELEVATIONS, COLOR, AND FINISH.
- SPECIFICATIONS: ARE INTEGRAL TO THE CONTRACT DOCUMENTS. IF A CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS OCCURS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

GENERAL IRRIGATION NOTES

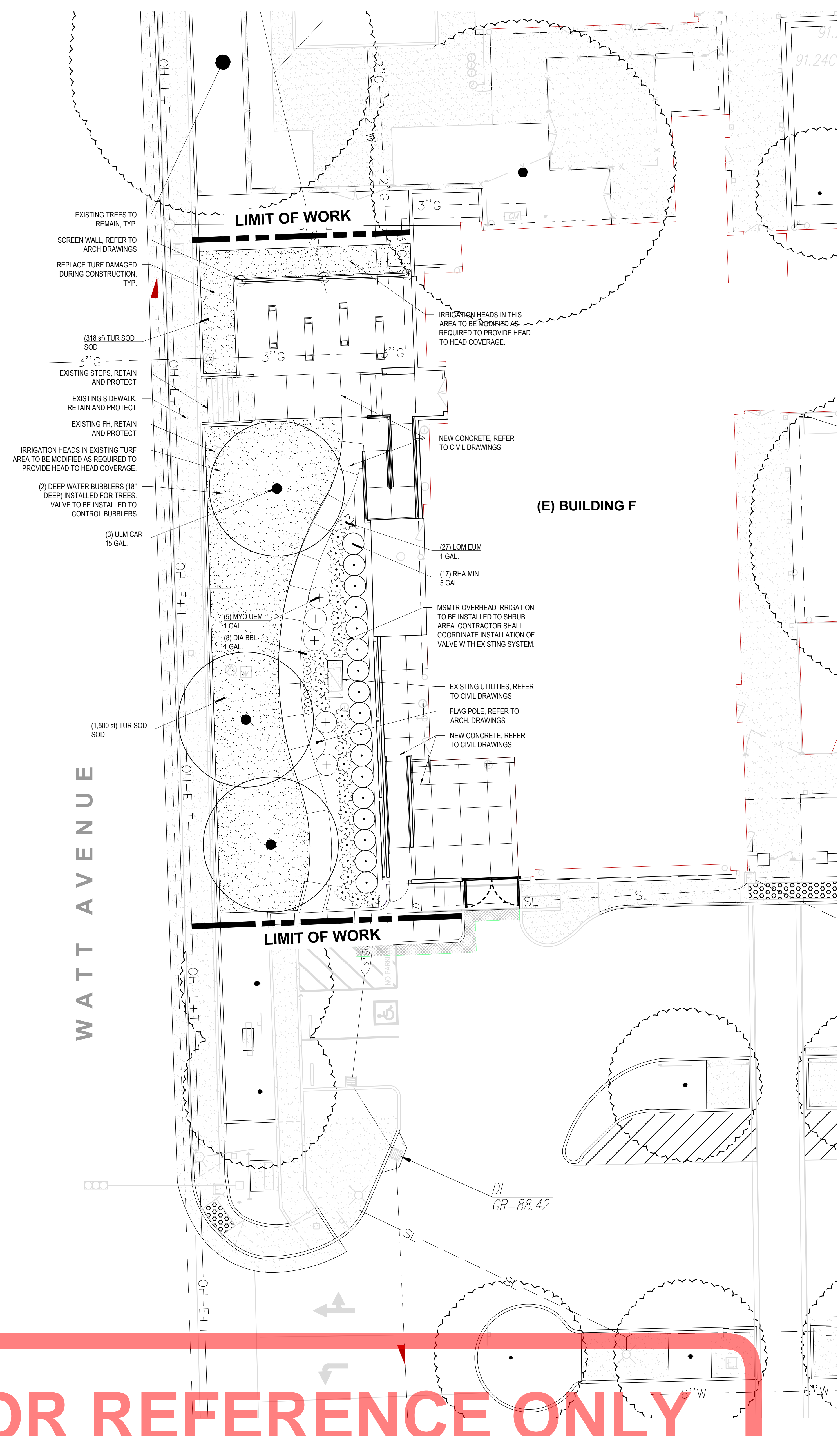
- SITE ACCEPTANCE: THE CONTRACTOR SHALL OBSERVE THE SITE AND VERIFY THAT ROUGH GRADING AND ALL OTHER WORK HAS BEEN COMPLETED TO THE CONTRACTOR'S SATISFACTION. ANY PREVIOUS WORK THAT IS NOT COMPLETE SHALL BE BROUGHT TO THE OWNER'S OR LANDSCAPE ARCHITECT'S ATTENTION IN WRITING. BEGINNING WORK CONSTITUTES ACCEPTANCE OF THE SITE.
- UNDERGROUND UTILITIES: THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CALL C.G.A. (811) TO LOCATE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITIES, TO THE SATISFACTION OF THE OWNER AND GOVERNING AGENCY AT NO COST TO THE OWNER OR INCREASE IN BID AMOUNT.
- QUANTITIES: (IF SHOWN) ARE FOR CONTRACTOR'S CONVENIENCE ONLY, AND SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO INSTALL A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM, WITH EVEN AND HEAD-TO-HEAD COVERAGE OF ALL IRRIGATED AREAS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- FIELD CONDITIONS: THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN WHEN EXISTING WORK, OBSTRUCTIONS, SITE CONDITIONS, GRADE DIFFERENCES, OR OTHER ASPECTS ARE APPARENT IN THE FIELD THAT AFFECT INSTALLATION OF THE IRRIGATION SYSTEM. IN THE EVENT THAT DISCREPANCIES ARE FOUND, INFORM THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN WRITING. IF WRITTEN NOTICE IS NOT RECEIVED, THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE IRRIGATION SYSTEM, INCLUDING ANY RE-DESIGN OR RE-WORK THAT MAY BE REQUIRED.
- FIELD ADJUSTMENTS: ARE REQUIRED TO OBTAIN OPTIMUM EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS AS REQUIRED TO MINIMIZE OR ELIMINATE OVERSPRAY AND RUNOFF, AND TO MAXIMIZE DISTRIBUTION UNIFORMITY. ADJUSTMENTS INCLUDE BUT ARE NOT LIMITED TO: NOZZLE SELECTION, INSTALLATION OF IN-LINE OR IN-HEAD CHECK VALVES TO ELIMINATE LOW-HEAD DRAINAGE AND PONDING, AND ADJUSTMENT OF HEAD SPACING OR HEAD LAYOUT TO ACCOMMODATE IN-FIELD OBSTRUCTIONS OR CONDITIONS.
- POINT OF CONNECTION: EXISTING ON SITE, CONTRACTOR SHALL VERIFY.
- NEW MATERIALS: ALL EQUIPMENT AND PIPING SHALL BE NEW, CONFORM TO ALL MANUFACTURER'S HANDLING AND INSTALLATION REQUIREMENTS.
- PIPE SIZING: PIPE SHALL BE THE SAME DIAMETER AS IDENTIFIED IN THE FIELD. THE SMALLEST PIPE SIZE ALLOWED IS 3/4" IN NO CASE SHALL THE VELOCITY OF WATER THROUGH IRRIGATION LATERALS EXCEED 5 FPS UNLESS SPECIFICALLY NOTED OTHERWISE.
- IRRIGATION SCHEDULE: THE CONTRACTOR SHALL OBSERVE EXISTING AND INSTALLED CONDITIONS, AND SHALL ADJUST THE CONTROLLER SCHEDULE ACCORDING TO ACTUAL FIELD CONDITIONS, TO PROVIDE PROPER IRRIGATION TO ESTABLISH NEW TURF AND SHRUBS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL PLANTED AREAS RECEIVE ADEQUATE MOISTURE, WITHOUT OVERWATERING. THIS INCLUDES MANUAL WATERING AS REQUIRED. DEPENDING ON SEASON, CONTRACTOR MAY ANTICIPATE ADJUSTING IRRIGATION SCHEDULE BY UP TO 50% DURING PLANT ESTABLISHMENT PERIOD. ALL OVERHEAD IRRIGATION SHALL BE SCHEDULED BETWEEN THE HOURS OF 8PM AND 6AM (OR AS PER LOCAL REQUIREMENTS).
- WARRANTY: ALL WORK SHALL BE WARRANTED FROM ONE YEAR OF THE DATE OF SUBSTANTIAL COMPLETION. PRIOR TO ACCEPTANCE, PROVIDE A GUARANTEE STATING THE PROJECT NAME, PROJECT LOCATION, DATE OF SUBSTANTIAL COMPLETION, INSTALLING CONTRACTOR'S NAME, CONTACT INFORMATION (PHONE, ADDRESS, EMAIL) AND LICENSE NUMBER ON COMPANY LETTERHEAD.
- THREADED CONNECTIONS: ALL PLASTIC THREADED CONNECTIONS EXCEPT MARLEX SHALL RECEIVE THREE WRAPS "EXTRA HEAVY" OR "FULL DENSITY" TEFLON OR PTFE TAPE PRIOR TO ASSEMBLY. PLASTIC MALE THREADED ADAPTERS SHALL NOT BE USED AND WILL BE REJECTED EXCEPT WHEN MAKING CONNECTION TO METAL. ALL THREADED CONNECTIONS TO METAL PIPE SHALL USE PLASTIC MALE THREADS TO FEMALE METAL THREADS.
- SLEEVES: ALL PIPING UNDER PAVED AREAS TO BE RUN IN PVC SCH. 40 SLEEVES AT LEAST TWICE THE DIAMETER OF THE PIPE BEING SLEEVED. ALL CONTROL WIRING UNDER PAVED AREAS TO BE RUN IN A SEPARATE SLEEVE, SIZED TO FACILITATE PULLING WIRE BUNDLE. SLEEVES TO EXTEND A MINIMUM OF 18" BEYOND PAVEMENT.
- SPECIFICATIONS: REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF CONFLICT WITH THE PLANS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

Roach & Campbell
947 Enterprise Drive L8 B
Sacramento, California 95825
916.945.8023 | 916.342.7119
4409-CL-0444

RUHNAU CLARKE ARCHITECTS

PLANTING NOTES

- SITE ACCEPTANCE: THE CONTRACTOR SHALL OBSERVE THE SITE AND VERIFY THAT ROUGH GRADING AND ALL OTHER WORK HAS BEEN COMPLETED TO THE CONTRACTOR'S SATISFACTION. ANY PREVIOUS WORK THAT IS NOT COMPLETE SHALL BE BROUGHT TO THE OWNER'S OR LANDSCAPE ARCHITECT'S ATTENTION IN WRITING. BEGINNING WORK CONSTITUTES ACCEPTANCE OF THE SITE.
- SITE PREPARATION: ALL EXISTING VEGETATION SHALL BE REMOVED (CLEAR AND GRUB). PRIOR TO ROUGH GRADING OPERATIONS, PRESERVE ALL TOPSOIL BY STOCKPILING ON SITE. TOPSOIL SHALL BE REPLACED IN PLANTING AREAS TO ACHIEVE FINAL FINISH GRADES. FOR PLANTERS IN LIME-TREATED AREAS, REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 24" THROUGHOUT THE ENTIRE PLANTER, AND REPLACE WITH CLEAN TOPSOIL.
- POSITIVE DRAINAGE: ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS, AND SHALL ADJUST ELEVATIONS AS REQUIRED. MINIMUM SLOPE IN TURF AREAS SHALL BE 0.5% TO OUTLET, MINIMUM SLOPE IN PLANTED AREAS SHALL BE 1.0%.
- EXPLANATION OF DRAWINGS: PLANTING INTENT IS TO COMPLETELY FILL ALL PLANTING AREAS, UNLESS SPECIFICALLY NOTED OTHERWISE. QUANTITIES, (IF SHOWN) ARE FOR CONTRACTOR'S CONVENIENCE ONLY, AND SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO INSTALL PLANTS TO MEET THIS INTENT. PLANTING DETAILS ARE CONSIDERED TYPICAL AND ALL WORK SHALL CONFORM TO THESE DETAILS.
- SUBSTITUTIONS: IN THE EVENT ANY PLANT MATERIAL SPECIFIED IS NOT AVAILABLE, CONTRACTOR SHALL SUBMIT PROPOSED SUBSTITUTION IMMEDIATELY TO LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE THE SUITABILITY OF ANY PROPOSED SUBSTITUTION. SUBSTITUTIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- PLANTING PIT DRAINAGE: EXCAVATED PLANTING PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS WHEN FULLY FLOODED WITH WATER SHALL DRAIN WITHIN 2 HOURS OF FILLING. IF PLANTING PITS DO NOT DRAIN, OTHER MEASURES, INCLUDING A 1" DIAMETER X 8" DEEP AUGURED HOLE BACKFILLED WITH CRUSHED DRAIN ROCK, WILL BE REQUIRED.
- PLANT MATERIAL: ALL PLANT MATERIAL SHALL COMPLY WITH ANSI Z60.1 STANDARD FOR NURSERY STOCK. NOTES AND DETAILS ON THE DRAWINGS. UNLESS OTHERWISE NOTED MINIMUM PLANT SIZES SHALL BE AS FOLLOWS: EVERGREEN SHRUBS (EXCEPT DWARF VARIETIES): 9" H, X 8" W, FOR 1-GALLON (#1); 24" H, X 12" W, FOR 5-GALLON (#5); AND 30" H X 24" W, FOR 15-GALLON (#15). SINGLE TRUNK TREES: 5" H, W/ 1" CALIPER FOR 15-GALLON (#15); 8" H, W/ 2" CALIPER FOR 24" BOX (#25). CONTRACTOR SHALL SUBMIT PHOTOS OF ALL TREES 30" AND ABOVE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO PURCHASE OR DELIVERY. APPROVAL OF PHOTOS DOES NOT PRECLUDE ON-SITE REJECTION OF UNSUITABLE PLANT MATERIAL.
- SITE CLEANLINESS: THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN, FOR SOIL EROSION CONTROL MEASURES, AND FOR ANY OTHER GENERAL REQUIREMENTS. SHOULD EXISTING CONDITIONS REQUIRE MITIGATION, THE CONTRACTOR SHALL ALERT THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO PERFORMING WORK.
- UNDERGROUND UTILITIES: THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CALL C.G.A. (811) TO LOCATE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITIES, TO THE SATISFACTION OF THE OWNER AND GOVERNING AGENCY AT NO COST TO THE OWNER OR INCREASE IN BID AMOUNT.
- BARK MULCH: A 3" LAYER OF WALK-ON BARK MULCH SHALL BE INSTALLED IN ALL PLANTER AREAS. CONTRACTOR SHALL SUBMIT A MULCH SAMPLE PRIOR TO ORDER. APPLY PRE-EMERGENT PRIOR TO PLACING MULCH. IF MAINTENANCE PERIOD EXTENDS PAST 90 CALENDAR DAYS FROM APPLICATION, APPLY AGAIN PER MANUFACTURER'S INSTRUCTIONS.
- SOIL FERTILITY ANALYSIS AND AMENDMENT: THE CONTRACTOR SHALL OBTAIN ONE (1) SOILS FERTILITY ANALYSIS FOR THE PROJECT. ALL PLANTING AREAS SHALL BE AMENDED PER THE SOILS REPORT, AND PER LOCAL ORDINANCE, EVEN WHEN NOT REQUIRED BY THE SOILS FERTILITY TEST. APPLY A MINIMUM OF 4 CUBIC YARDS PER 1,000 S.F. COMPOST OVER ALL PLANTED AREAS AND TILL INTO TOP 8" OF SOIL, ALONG WITH OTHER RECOMMENDATIONS PER THE SOILS FERTILITY TEST. ALL PLANTING PITS SHALL BE BACKFILLED WITH AMENDED SOIL MIX. DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT SHALL BE SUBMITTED TO THE AHJ PRIOR TO OCCUPANCY (PER AHJ WATER EFFICIENT LANDSCAPE ORDINANCE).
- ESTABLISHMENT PERIOD: SHALL BE A MINIMUM OF 90 CALENDAR DAYS, BEGINNING UPON WRITTEN VERIFICATION OF SUBSTANTIAL COMPLETION BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE. ESTABLISHMENT PERIOD SHALL CONSIST OF REGULAR LANDSCAPE MAINTENANCE BY THE INSTALLING CONTRACTOR, ENSURING ALL PLANTING IS IN A VIGOROUS AND HEALTHY CONDITION, AND ALLOWING PLANTS TO GROW IN AND ACCLIMATE TO THE SITE. ANY PLANT THAT HAS BEEN REPLACED DURING THE ESTABLISHMENT PERIOD SHALL BE SUBJECT TO AN ADDITIONAL ESTABLISHMENT PERIOD EQUAL TO THE ORIGINAL ESTABLISHMENT PERIOD, BEGINNING ON THE DATE OF REPLACEMENT. ANY DAY OF IMPROPER MAINTENANCE, AS DETERMINED BY THE LANDSCAPE ARCHITECT OR LOCAL JURISDICTION, SHALL NOT COUNT TOWARD THE ESTABLISHMENT PERIOD.
- UTILITY CLEARANCE: FOLLOW ALL JURISDICTIONAL REQUIREMENTS. AT MINIMUM IF NOT OTHERWISE REQUIRED OR NOTED, NO TREES SHALL BE PLANTED WITHIN 5' OF WATER AND SANITARY SEWER LINES. NO TREES SHALL BE PLANTED UNDER EXISTING OR FUTURE OVERHEAD POWER LINES, AND ALL REQUIRED CLEARANCES SHALL BE MAINTAINED. ALL PLANTING EXCEPT LOW-GROWING GROUND COVER SHALL BE 3' CLEAR OF ALL FIRE APURTANCES PER NFPA 18.5.7.
- WORK IN RIGHT-OF-WAY: ALL WORK WITHIN THE RIGHT OF WAY OR TO BE MAINTAINED BY THE LOCAL AGENCY SHALL BE INSTALLED PER THE LATEST EDITION OF THE AGENCY CONSTRUCTION STANDARDS, AND ALL OTHER AGENCY REQUIREMENTS.
- LIME-TREATED AREAS: ANY PLANTER AREA TREATED WITH LIME SHALL BE EXCAVATED TO A DEPTH OF 24" AND THE SOILS LEGALLY DISPOSED OF OFF SITE. EXCAVATED AREAS SHALL BE BACKFILLED WITH CLEAN TOPSOIL. PROVIDE A SOILS FERTILITY TEST OF PROPOSED TOPSOIL PRIOR TO IMPORT.
- TURF INSTALLATION: CONTRACTOR SHALL PLACE AND ESTABLISH SOD IN ALL AREAS AS DELINEATED ON THE PLANS AS FOLLOWS.
 - REMOVE ALL ROCKS AND OTHER DELETERIOUS MATERIAL GREATER THAN 3/4" IN DIAMETER. ESTABLISH SMOOTH GRADES, WITH NO PONDS. ENSURE ADEQUATE SOIL COMPACTION TO AVOID SETTLEMENT. WITHOUT EXCEEDING 85% RELATIVE DENSITY. SUBSEQUENT SETTLEMENT SHALL BE CLEAR EVIDENCE OF INADEQUATE COMPACTION.
 - WITHIN 24 TO 48 HOUR OF SODDING, MOISTEN AREA TO BE SODDED TO A DEPTH OF AT LEAST 6", AND MAINTAIN MOISTURE UNTIL SODDING. DO NOT ALLOW SOIL TO BE COME SATURATED.
 - APPLY A STARTER FERTILIZER PRIOR TO LAYING SOD.
 - INSTALL SOD WITHIN 12 HOURS OF DELIVERY. DO NOT ALLOW SOD TO SIT IN DIRECT SUNLIGHT OR TO DRY OUT.
 - STARTING AT A STRAIGHT EDGE, LAY SOD IN STAGGERED ROWS, OFFSETTING JOINTS A MINIMUM OF 2 FEET.
 - AFTER LAYING ROLL SOD WITH A LIGHT-WEIGHT WATER-DRUM ROLLER (APPROXIMATELY 50 LBS), AND ENSURE FULL CONTACT WITH SOIL. WATER AS SOON AS POSSIBLE, AND IN ALL CASES, WITHIN 1 HOUR AFTER LAYING.



FOR REFERENCE ONLY

PROJECT No. 11-104-01
4/3/2024 10:15:14 AM

DATE	BY	DESCRIPTION

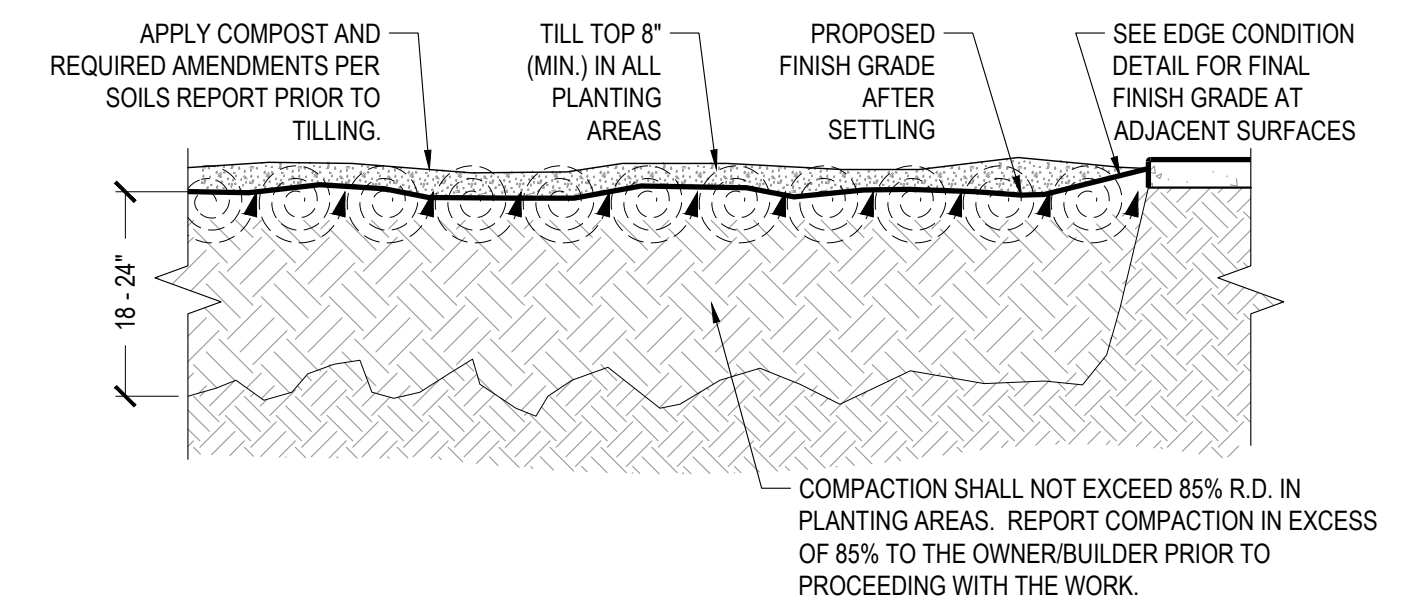
RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899

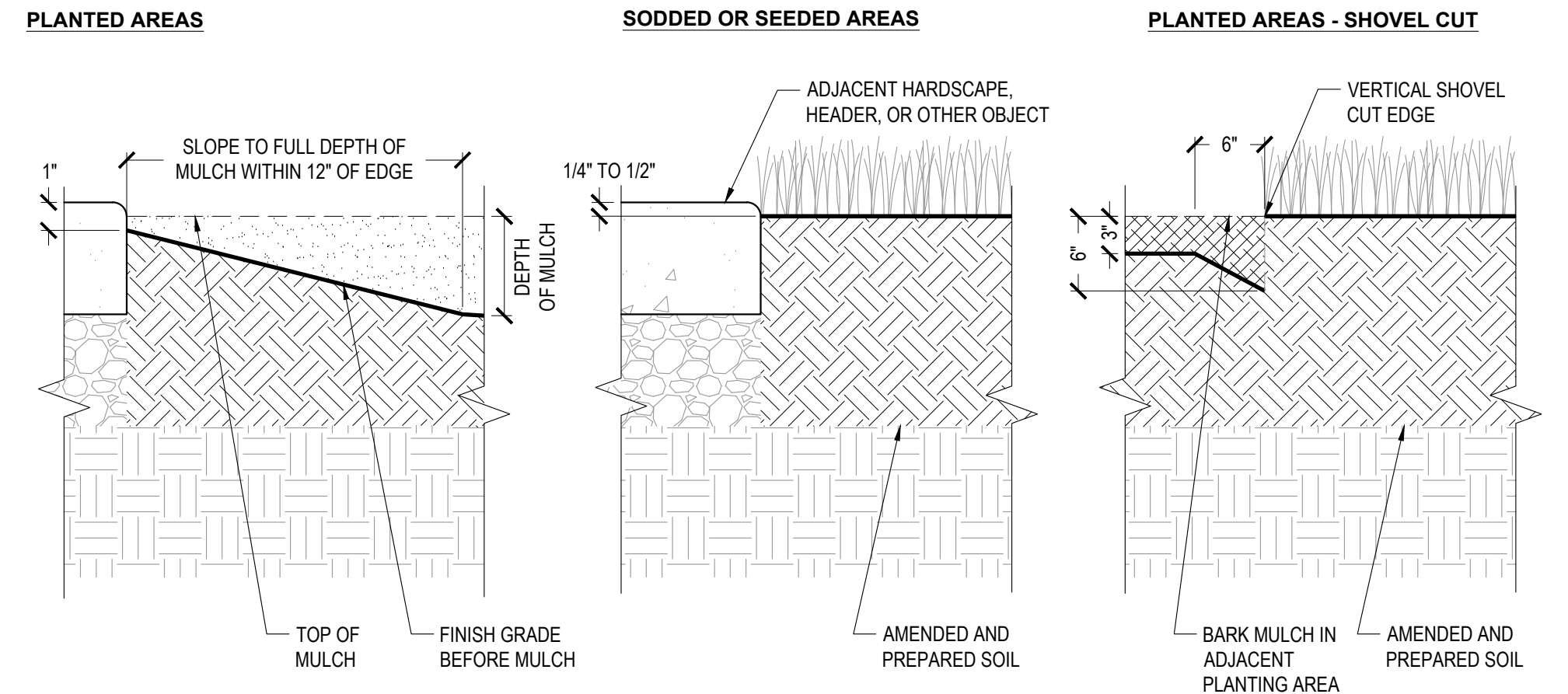
KITCHEN UPGRADES AT JOYCE E.S

F.C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

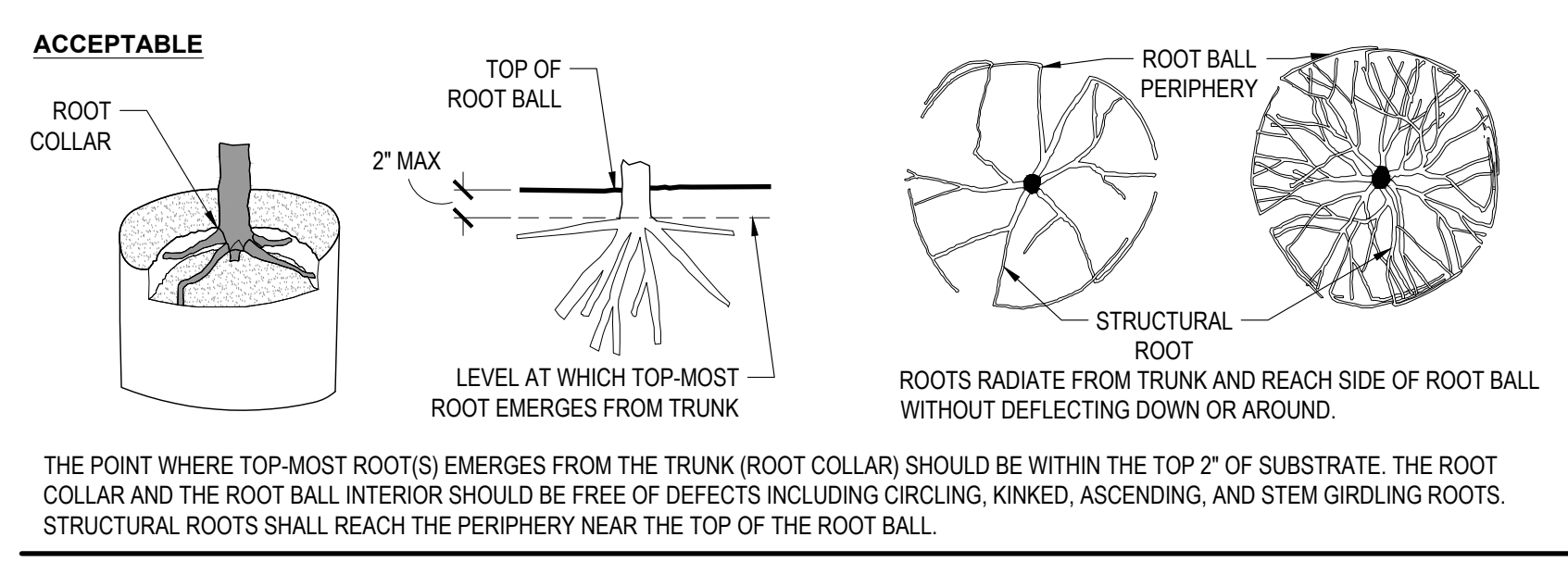
LANDSCAPE IMPROVEMENT PLAN LS-1.0



1 | PLANTING AREA SOIL PREPARATION
 NO SCALE SECTION

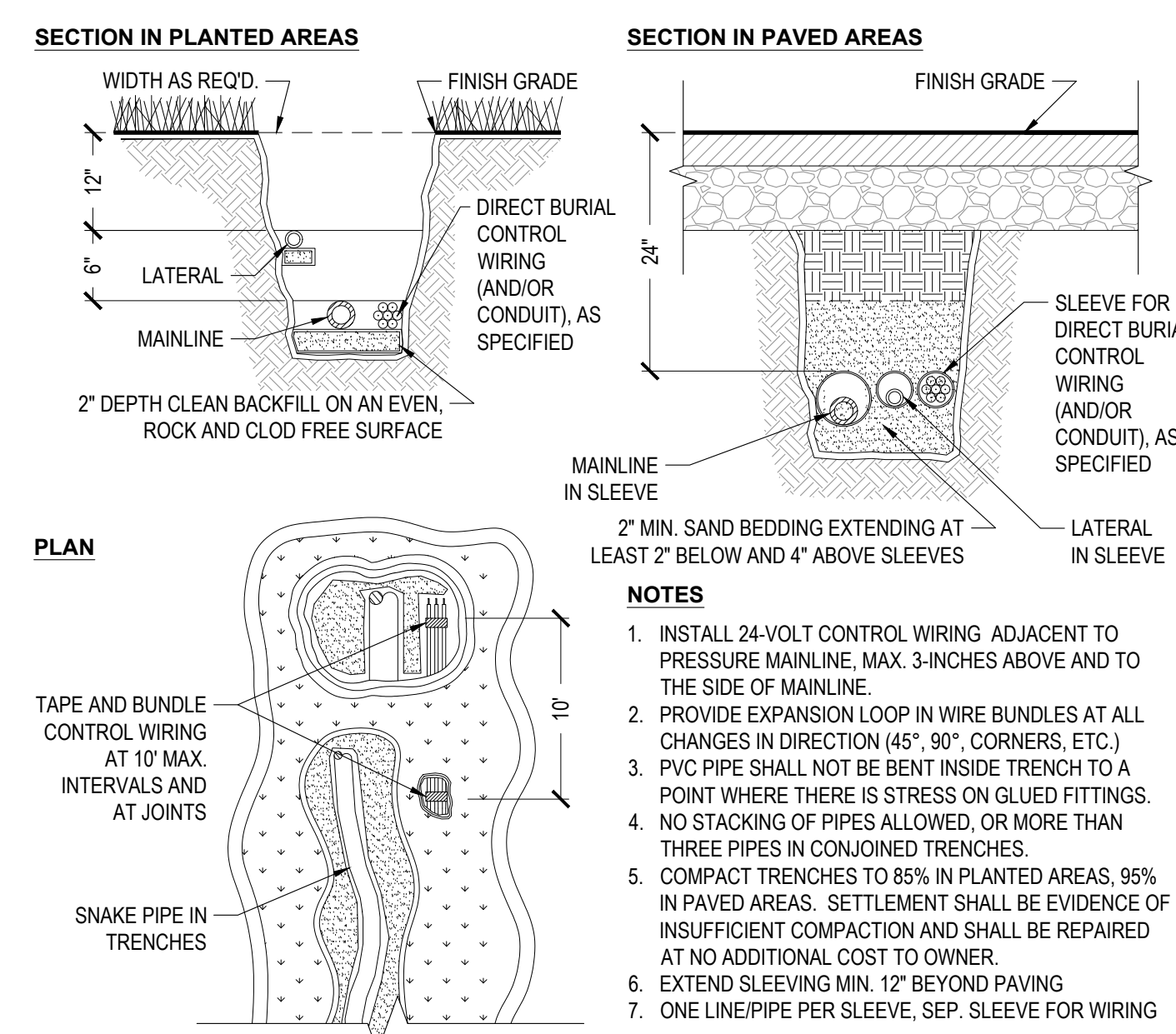


2 | PLANTING AREA EDGE CONDITION AT HARDSCAPE
 NO SCALE SECTION

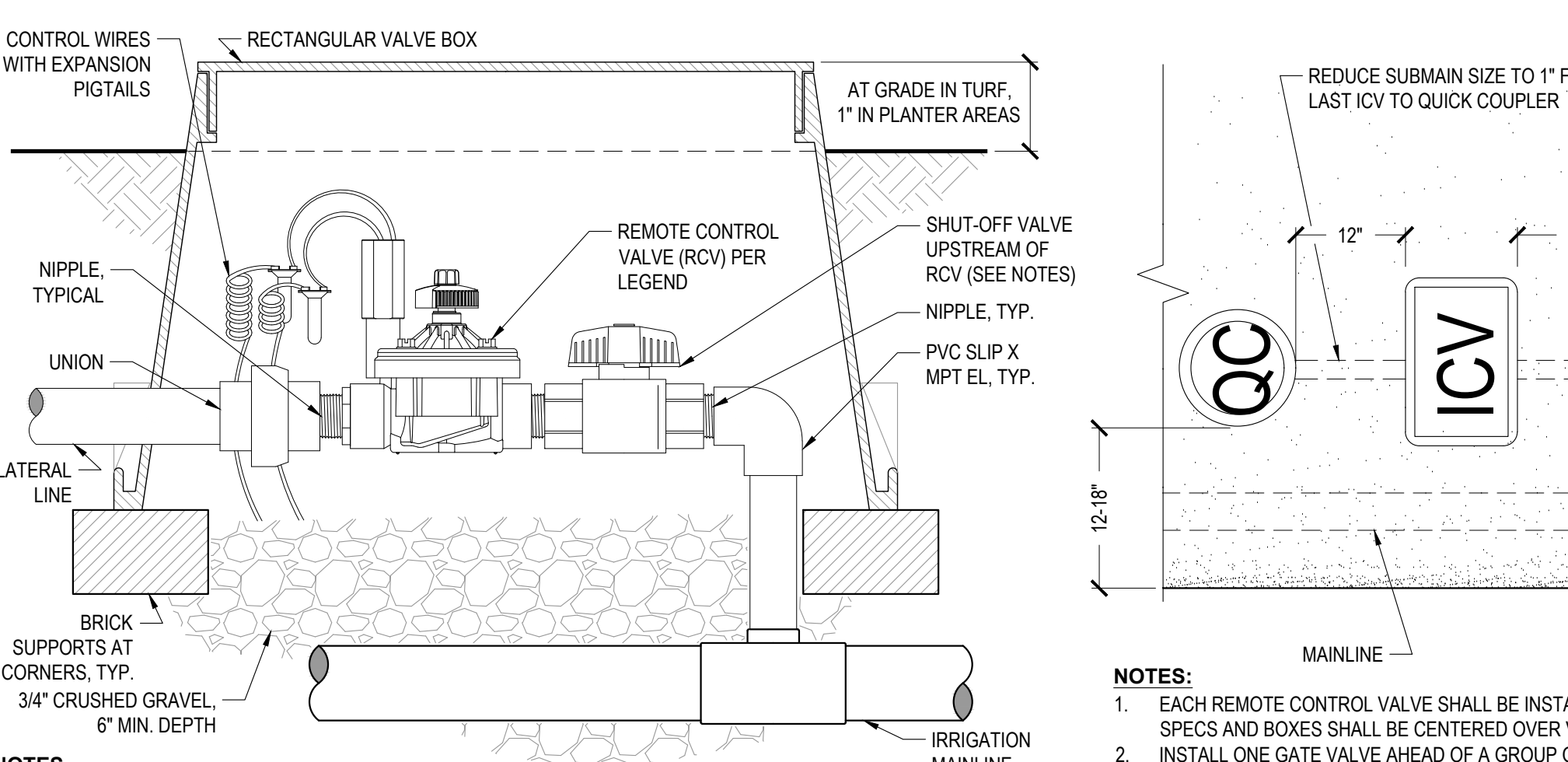


3 | ROOT STRUCTURE: CONTAINERIZED PLANTS
 NO SCALE AS NOTED

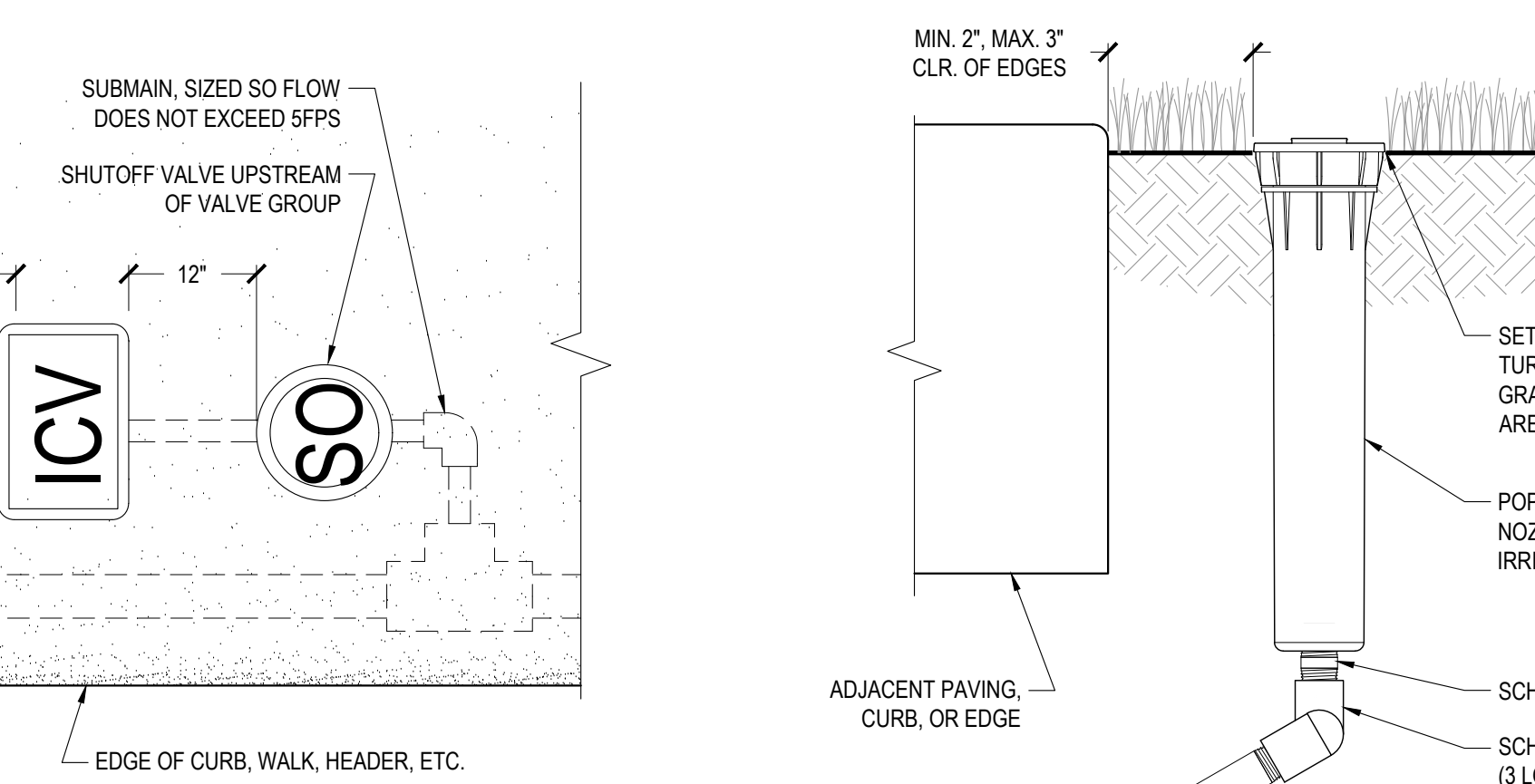
NOTES
 A. OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SUBSTRATE MAY BE REMOVED DURING THE OBSERVATION PROCESS. SUBSTRATE/SOIL SHALL BE REPLACED AFTER OBSERVATION HAS BEEN COMPLETED.
 B. SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY MAY BE REMOVED AT THE TIME OF PLANTING.
 C. SEE SPECIFICATIONS (IF PROVIDED) FOR OBSERVATION PROCESS AND REQUIREMENTS.
 D. PRIOR TO PLANTING, SOIL SHALL BE REMOVED FROM THE TOP OF THE ROOT BALL AS REQUIRED TO EXPOSE THE ROOT FLARE.



4 | IRRIGATION TRENCHING
 NO SCALE AS NOTED



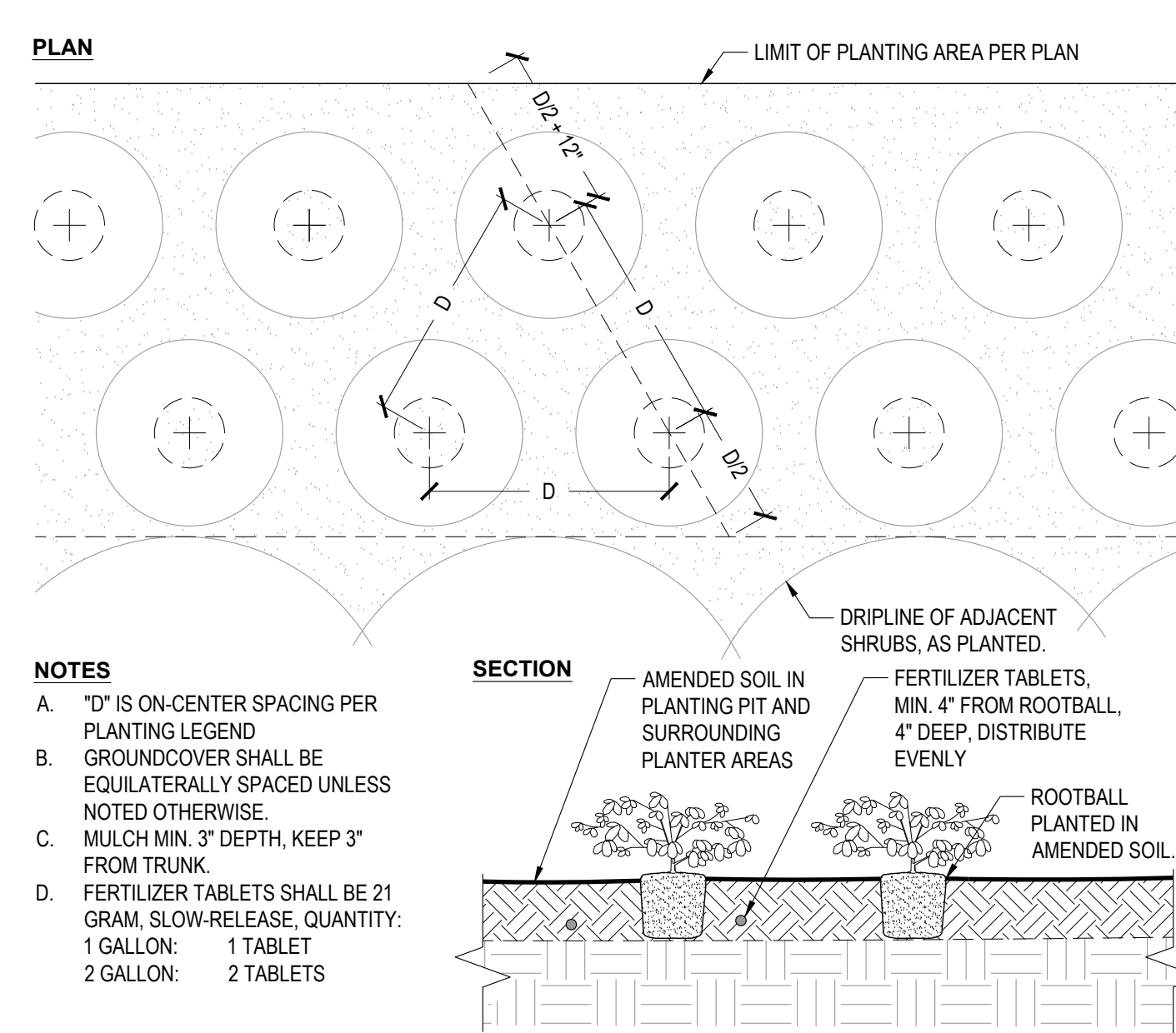
5 | REMOTE CONTROL VALVE
 NO SCALE



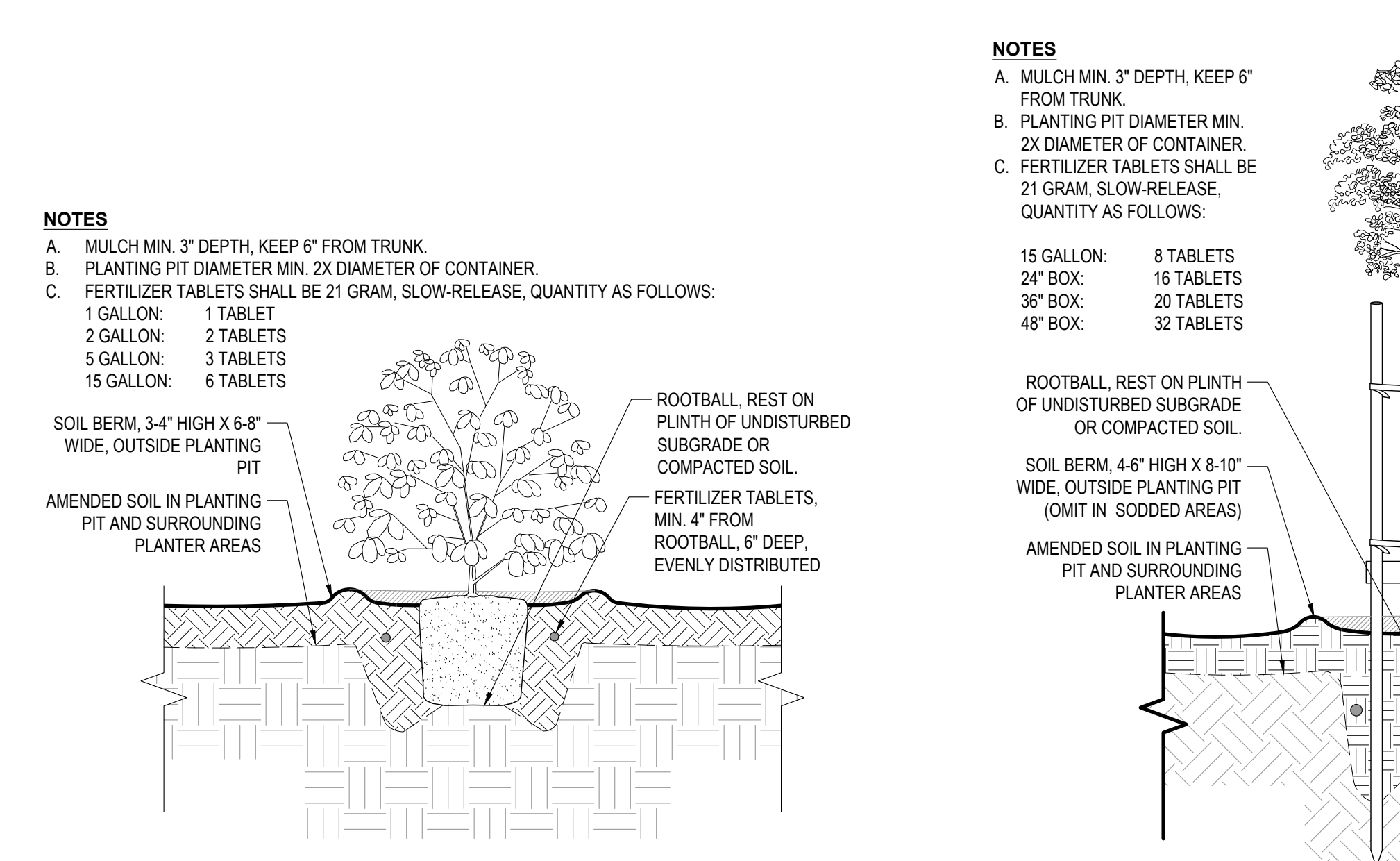
6 | VALVE BOX LAYOUT
 NO SCALE PLAN



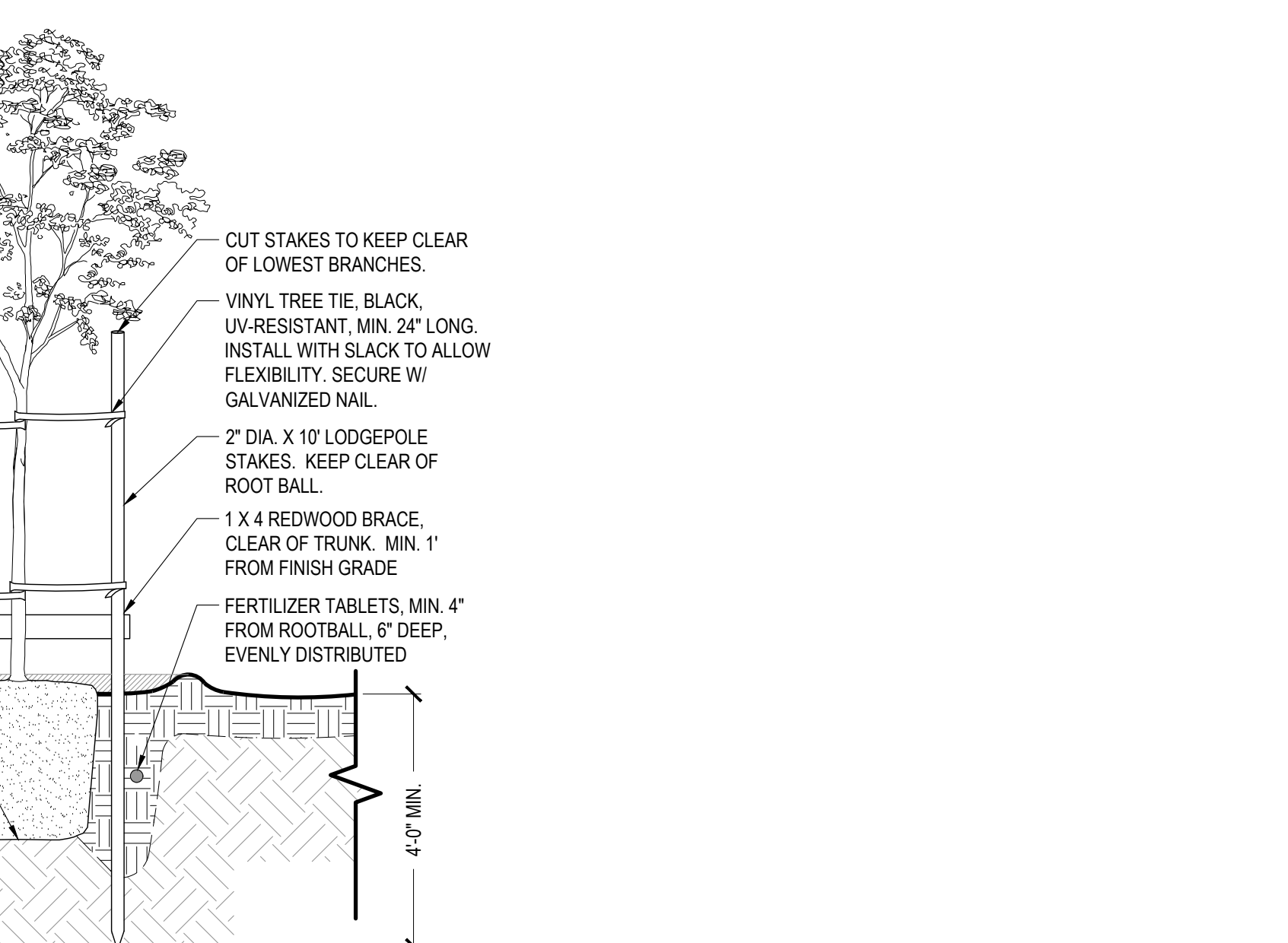
7 | POP-UP HEAD
 NO SCALE



8 | GROUNDCOVER PLANTING
 NO SCALE SECTION



9 | SHRUB PLANTING
 NO SCALE SECTION



10 | TREE PLANTING: STANDARD UP TO 36\"/>

FOR REFERENCE ONLY



PARKING CALCULATION

TOTAL PARKING STALL PROVIDED	89
ACCESSIBLE PARKING STALLS REQUIRED (CBC TABLE 11B-208.2)	4
ACCESSIBLE PARKING STALLS PROVIDED INCLUDING (1) VAN	7
ACCESSIBLE PARKING STALLS PROVIDED INCLUDING (1) VAN	7
TOTAL PARKING PROVIDED INCLUDING ACCESSIBLE PARKING	96

(CBC TABLE 11B-208.2)
76 TO 100 = 4 ACCESSIBLE SPACES
89 STD. + 7 ACC. PER LOT = 96
= 4 ACC. REQ. < 7 PROVIDED
= OK

SITE LEGEND

	(N) ADDITION TO (E) BUILDING STRUCTURE		PROPERTY LINE
	(E) BUILDING		(E) CHAIN LINK FENCE, TO REMAIN, PROTECT IN PLACE
	(E) ASPHALT PAVING TO REMAIN, PROTECT IN PLACE		(E) METAL FENCE, TO REMAIN, PROTECT IN PLACE
	(E) LANDSCAPE TO REMAIN, PROTECT IN PLACE		TOILET ROOMS
	(N) CONCRETE PAVING PER CIVIL DWGS		DF DRINKING FOUNTAIN
	(N) DECOMPOSED GRANITE PAVING PER CIVIL DWGS.		(W) (E) WOMENS/GIRLS RESTROOM
	(N) LANDSCAPE PER LANDSCAPE DWGS.		(M) (E) MENS/BOYS RESTROOM
	(E) CONCRETE PAVING TO REMAIN, PROTECT IN PLACE		

NOTE:
1. CONTRACTOR TO DEMOLISH CONCRETE PAVING TO ITS NEAREST CONTROL JOINT OR EXPANSION JOINT, VERIFY IN FIELD

P.O.T.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHANGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR 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: 1) HAVE BEEN IDENTIFIED AND 2) 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 P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLIANT BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

----- (E) P.O.T. #1 - A#02-112267	APPROVED DSA A#S:
----- (E) P.O.T. #2 - A#02-111926	A# 02-121614 (APPROVED 2023)
----- (E) P.O.T. #3 - A#02-119708	A# 02-119708 (APPROVED 2021)
----- (N) P.O.T.	A# 02-115511 (CLOSED 2018)
	A# 02-12287 (CLOSED 2017)
	A# 02-111926 (CLOSED 2011)

OPENINGS IN GRATINGS OR STRAINERS LOCATED IN PEDESTRIAN CIRCULATION PATHS OR IN PATH OF TRAVEL SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH SECTION 11B-302.3, WHERE NO DOMINANT DIRECTION OF TRAVEL IS DEFINED, 1/2" MAX OPENINGS IN ALL DIRECTIONS IS REQUIRED.

GATE SCHEDULE

GATE NO.	TYPE	GATE SIZES		MATERIAL	FINISH	HOWR GROUP	DETAIL	PANIC	NOTES
G1	TUBE STEEL	3' - 6"	6' - 0"	CORRUGATED	GALV.	NO. 09	7/ASD-2	NO	1, 2, 4
G2	TUBE STEEL	10' - 2"	6' - 0"	CORRUGATED	GALV.	NO. 08	6/ASD-2	NO	3

NOTES:
1. NO PADLOCKS ON EXIT GATES IN THE PATH OF EGRESS.
2. GATES SHALL HAVE 5lbs MAX OPERATING PRESSURE.
3. SERVICE GATE ONLY, NOT FOR ACCESSIBILITY.
4. PEDESTRIAN GATE.

AGENCY APPROVAL
FIG. NO. 0000000000000000

RUHNAU CLARKE ARCHITECTS

- ### GENERAL NOTES
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF SITE AND IT IS THEIR SOLE RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION BASED UPON THE PROPOSED NEW WORK.
 - PATCH AND REPAIR ANY PAVING DAMAGE CAUSED BY DEMOLITION BEYOND EXTENTS SPECIFIED. REPAIR TO MATCH EXISTING.
 - FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CBC 2022 CHAPTER 33.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRUCTURES THAT ARE TO BE DEMOLISHED (ABOVE AND BELOW GROUND). ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND BE REMOVED AS REQUIRED BY STATE AND LOCAL LAWS.
 - REFER TO SPECIFICATIONS FOR CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. CUT & CAP (E) UTILITIES AS REQUIRED.
 - REFER TO CIVIL DRAWINGS FOR DEMO WORK.
 - NO DEMOLITION WORK SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY THE DIVISION OF STATE ARCHITECT (DSA).
 - REFER TO CIVIL DRAWINGS FOR CIVIL SCOPE.
 - REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE SCOPE.
 - LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED, SEE SECTION 20.41.00 FOR MORE INFORMATION.
- NOTE: SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.

KEYNOTES

02 00 32.1	(E) LANDSCAPE TO REMAIN
02 00 32.8	(E) DETECTABLE WARNING SURFACE TO REMAIN, PROTECT IN PLACE
02 00 32.9	(E) FENCE AND GATE TO REMAIN, PROTECT IN PLACE
02 00 32.11	(E) SITE SIGNAGE TO REMAIN, PROTECT IN PLACE
02 00 32.15	(E) SIGNAGE TO REMAIN, PROTECT IN PLACE
02 00 32.16	(E) MARQUEE SIGNAGE TO REMAIN, PROTECT IN PLACE
02 00 33.4	(E) DOUBLE DETECTOR CHECK VALVE ASSEMBLY BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE
32 33 43.13	SITE SEATING

FIRE LEGEND

ALL FIRE APPARATUS ACCESS LANES ARE (E) TO REMAIN AND IS NOT IN THE SCOPE OF THIS PROJECT, SHOWN FOR REFERENCE ONLY.

INDICATES 20'-0" MIN. WIDE DRIVES, FIRE APPARATUS ACCESS LANE WITH NOT LESS THAN 13'-6" VERTICAL CLEARANCE PER CBC 2022 EDITION.

INDICATES MINIMUM TURNING RADIUS FOR THE FIRE ACCESS

	FIRE LANE		KNOX PADLOCK FOR ENTRY KEY (MIN. KNOX BOX 3200 SERIES MODEL)
	PEDESTRIAN EGRESS GATES		FIRE HYDRANT
	GATE		FH

NOTE: FIRE LANE HATCHING AND DASHED LINE WORK ON CONCRETE PAVING IS FOR REFERENCE ONLY. CONTRACTOR NOT REQUIRED TO PAINT STRIPING RELATED TO FIRE APPARATUS ACCESS LANE.

DSA 810

810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new buildings, additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgment by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety information sections are to be completed for all projects and mapped onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and mapped on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION			
School District/Owner:	TWIN RIVERS UNIFIED SCHOOL DISTRICT		
Project Name/School:	C. JOYCE ELEMENTARY BENTLEY SCHOOL		
Project Address:	6050 WATT AVE, NORTH HIGHLANDS, CA 95660		

FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Refer to the following website for FHSZ locations: https://www.cal-fire.com/fhsz/	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input type="checkbox"/>

DSA DSA 810 (revised 12/20/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

FOR REFERENCE ONLY

PROJECT No. 11-104-01
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DRAWN BY:	DATE:	CHECKED BY:	DATE:
DELTA #	DATE	ADD	DATE
DELTA #	DATE	ADD	DATE
DELTA #	DATE	ADD	DATE

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OVERALL SITE PLAN 1" = 30'-0"

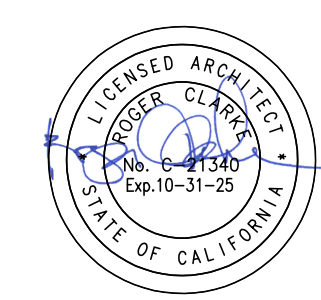
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92504 TEL: 951.514.1100 FAX: 951.514.1101

KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

AS-1.1

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
FIG. NO. 10-31-25

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STAMPS

CONSULTANT BRANDING

GENERAL NOTES

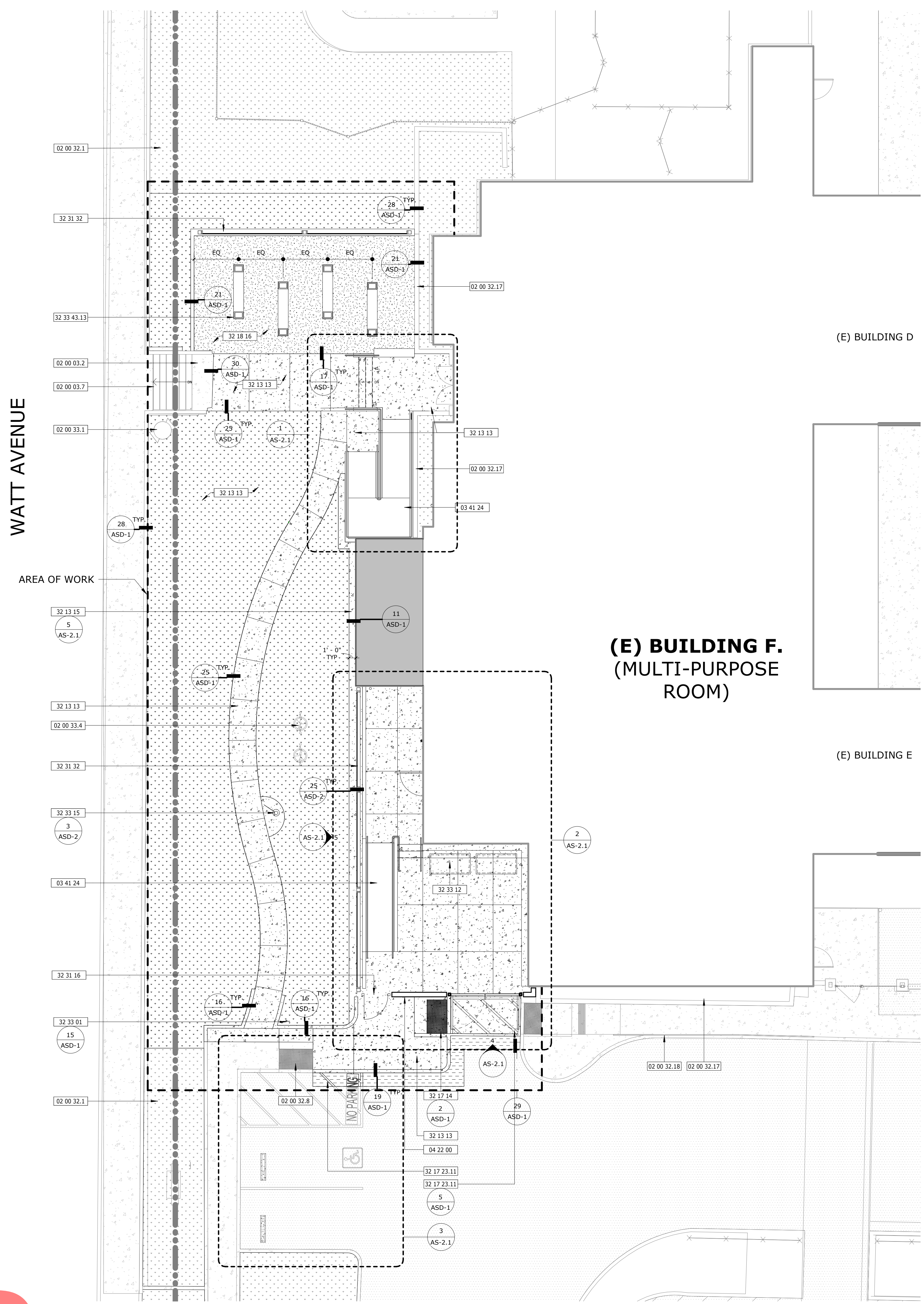
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF SITE AND IT IS THEIR SOLE RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION BASED UPON THE PROPOSED NEW WORK.
- PATCH AND REPAIR ANY PAVING DAMAGE CAUSED BY DEMOLITION BEYOND EXTENTS SPECIFIED. REPAIR TO MATCH EXISTING.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CBC 2022 CHAPTER 33.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRUCTURES THAT ARE TO BE DEMOLISHED (ABOVE AND BELOW GROUND). ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND BE REMOVED AS REQUIRED BY STATE AND LOCAL LAWS.
- REFER TO SPECIFICATIONS FOR CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. CUT & CAP (E) UTILITIES AS REQUIRED.
- REFER TO CIVIL DRAWINGS FOR DEMO WORK.
- NO DEMOLITION WORK SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY THE DIVISION OF STATE ARCHITECT (DSA)
- REFER TO CIVIL DRAWINGS FOR CIVIL SCOPE.
- REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE SCOPE.
- LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED, SEE SECTION 20.41.00 FOR MORE INFORMATION.
NOTE: SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.

KEYNOTES

02 00 03.2	(E) CONCRETE PAVING TO REMAIN
02 00 03.7	(E) CONCRETE STAIR TO REMAIN, REPAIR/PATCH EXIST. CONC. PAVEMENT AND CURB
02 00 32.1	(E) LANDSCAPE TO REMAIN
02 00 32.8	(E) DETECTABLE WARNING SURFACE TO REMAIN, PROTECT IN PLACE
02 00 32.17	(E) PLANTER BRICK WALL TO REMAIN, PROTECT IN PLACE
02 00 32.18	(E) HANDRAIL TO REMAIN, PROTECT IN PLACE, PREPARE SURFACE FOR NEW PAINT FINISH
02 00 33.1	(E) FIRE HYDRANT TO REMAIN, PROTECT IN PLACE
02 00 33.4	(E) DOUBLE DETECTOR CHECK VALVE ASSEMBLY BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE
03 41 24	CAST-IN-PLACE CONCRETE RAMP WITH RAILING
04 22 00	CONCRETE MASONRY UNIT
32 13 13	SITE CONCRETE PAVING, PER CIVIL & LANDSCAPE DWGS.
32 13 15	CONCRETE MOW STRIP, PER CIVIL & STRUCTURAL DWGS.
32 17 14	DETECTABLE WARNING SURFACE
32 17 23.11	4" PAINTED BLUE PAVEMENT MARKINGS, COLOR TO BE FEDERAL STANDARD 595C, TYP.
32 18 16	DECOMPOSED GRANITE SURFACING
32 31 16	ACCESSIBLE METAL GATE, SEE GATE SCHEDULE FOR MORE DETAILS
32 31 32	METAL SCREEN FENCE
32 33 01	ACCESSIBLE ROUTE SIGN
32 33 12	TRASH & RECYCLING RECEPTACLES
32 33 15	FLAGPOLE
32 33 43.13	SITE SEATING

SITE PLAN LEGEND

	(E) BUILDING TO REMAIN, PROTECT IN PLACE		PROPERTY LINE
	SCOPE OF WORK, KITCHEN & CAFETERIA BUILDING		(E) CHAIN LINK FENCE, TO REMAIN, PROTECT IN PLACE
	NEW BUILDING STRUCTURE		(E) METAL FENCE, TO REMAIN, PROTECT IN PLACE
	CONCRETE PAVING PER CIVIL DWGS., TO MATCH EXISTING		
	PLANTING, FOR MORE INFO. REFER TO LANDSCAPE DWGS		
	DECOMPOSED GRANITE, FOR MORE INFO. REFER TO LANDSCAPE DWGS		
	ASPHALT PAVING PER CIVIL DRAWINGS TO MATCH EXISTING		
	(E) CONCRETE PAVING TO REMAIN, PROTECT IN PLACE		
	(E) LANDSCAPE TO REMAIN, PROTECT IN PLACE		
	(E) ASPHALT PAVING TO REMAIN, PROTECT IN PLACE		



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PROJECT No. :1-104-01
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DATE	BY	DESCRIPTION

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 5751 WALNER WAY, SUITE C, CARLSBAD CALIFORNIA 92008 (760) 438-5899

ENLARGED SITE PLAN SCALE: 1/8" = 1'-0" 1

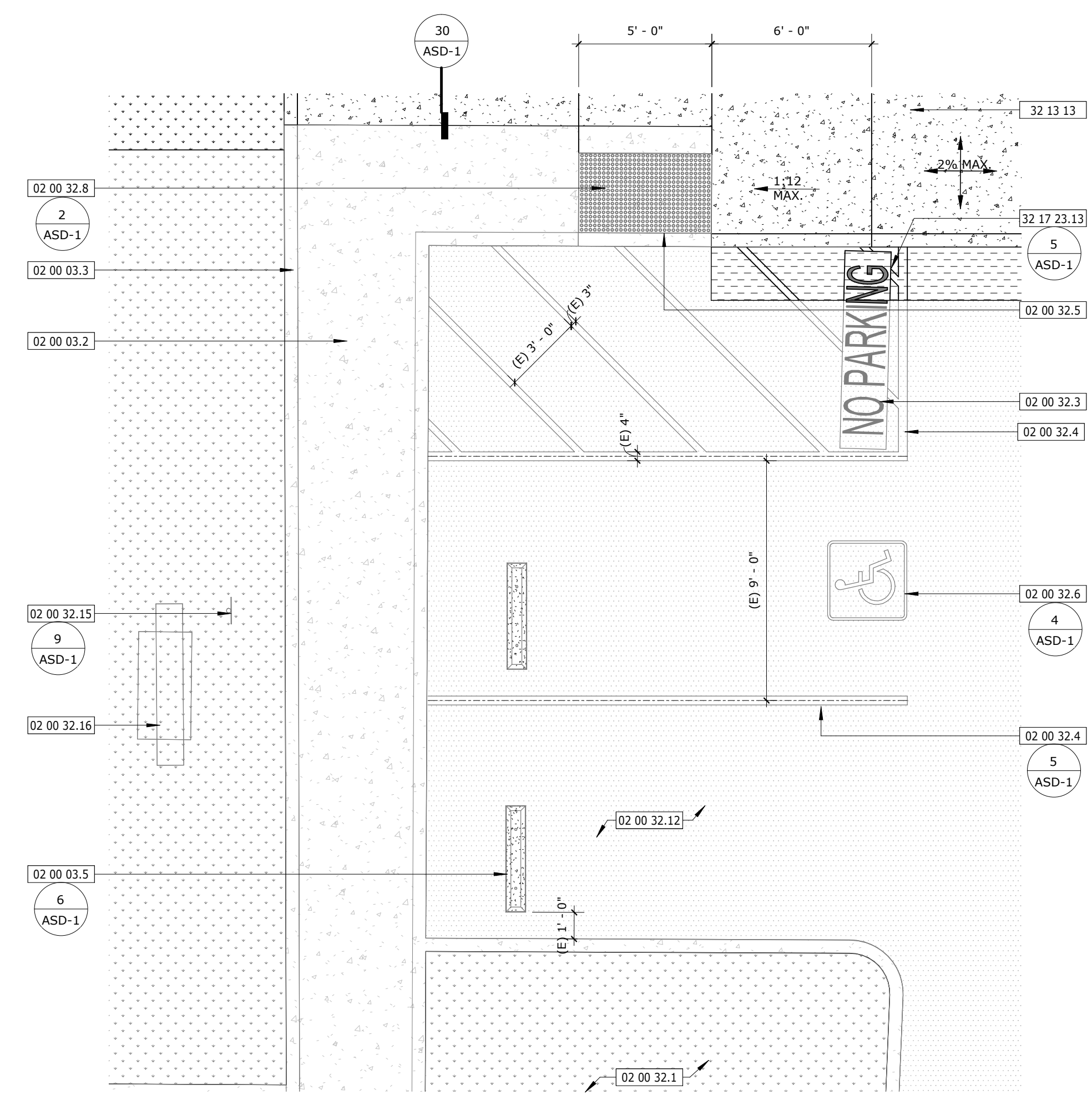
KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK, C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

ENLARGED SITE PLAN

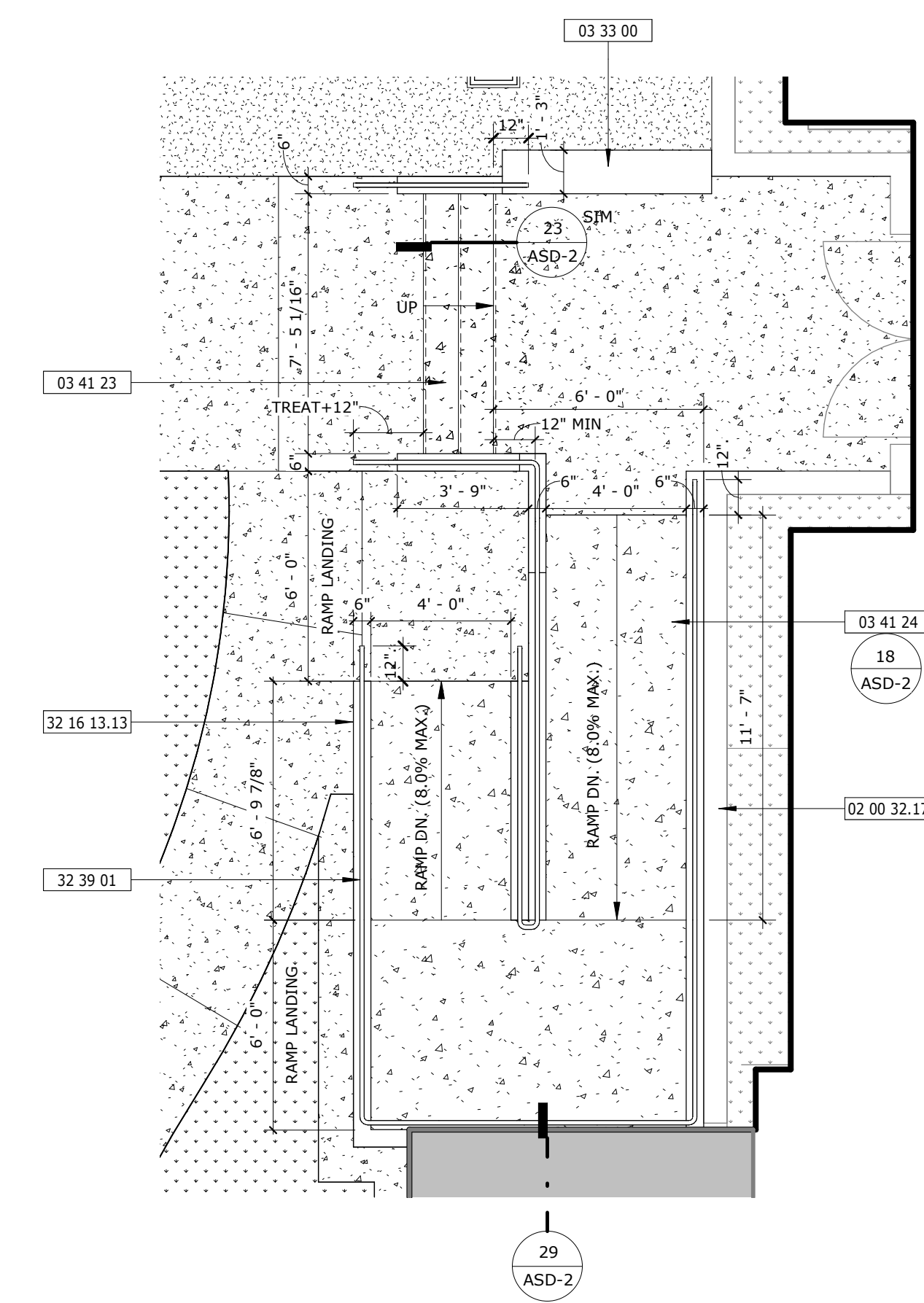
AS-2.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

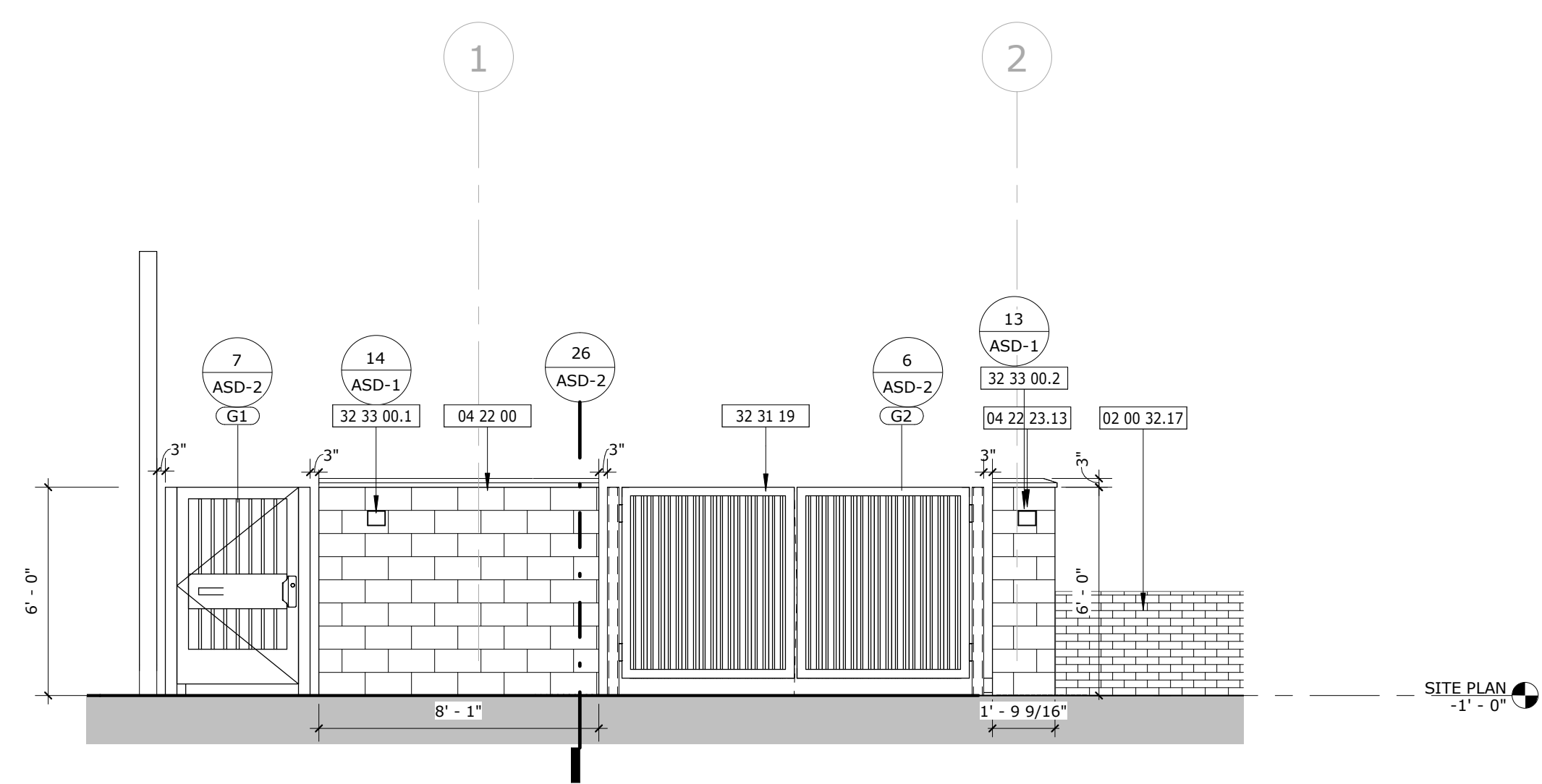


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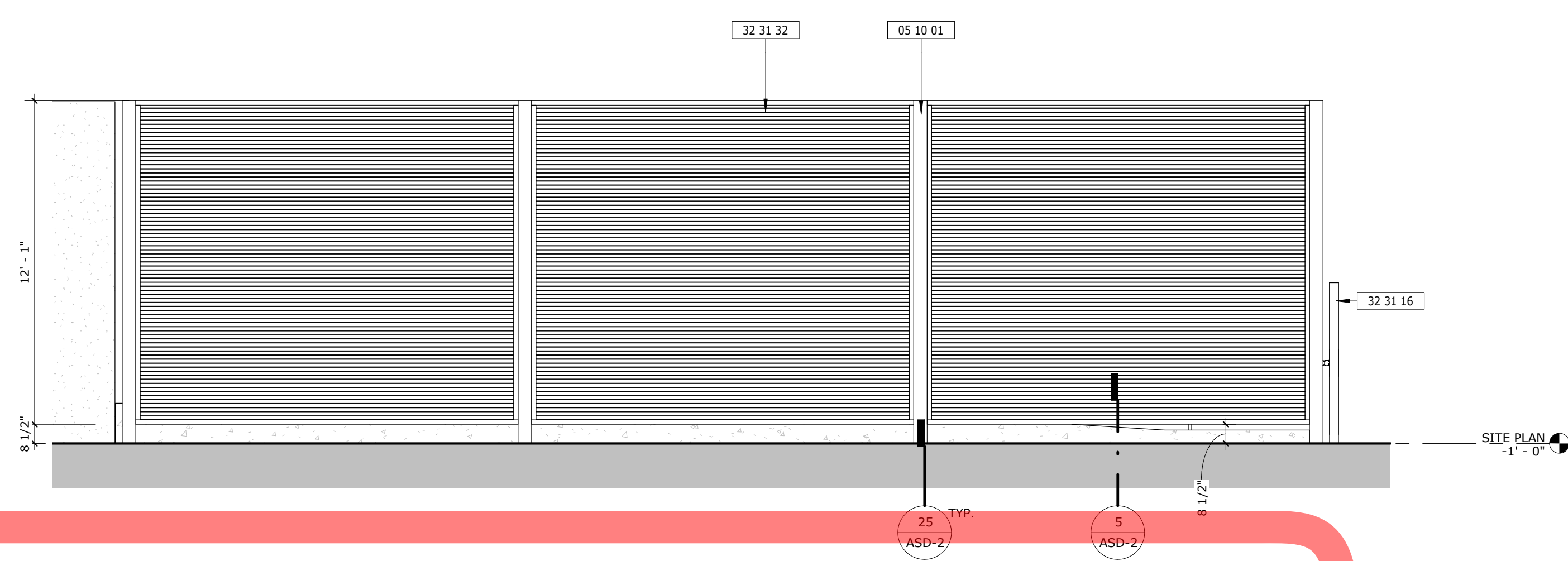
(E) ACCESSIBLE PARKING STALLS (A#02-115511) SCALE: 1/4" = 1'-0" 3



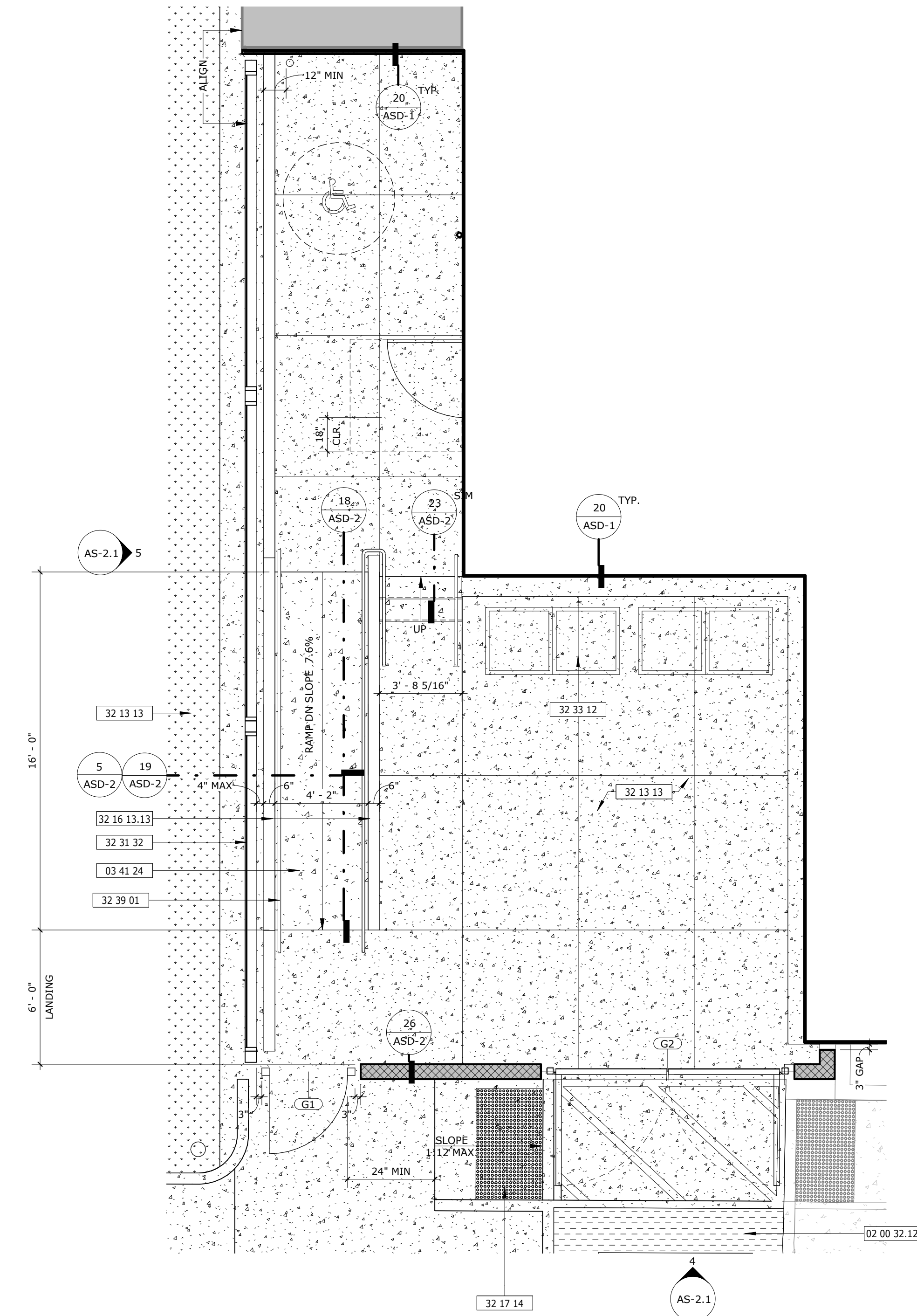
ENLARGED SITE PLAN - ENTRANCE SCALE: 1/4" = 1'-0" 1



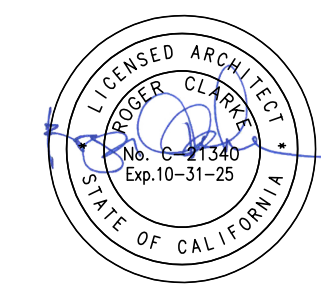
SERVICE YARD ELEVATION - SOUTH SCALE: 1/4" = 1'-0" 4



SERVICE YARD ELEVATION - WEST SCALE: 1/4" = 1'-0" 5



ENLARGED SITE PLAN - SERVICE ENTRANCE SCALE: 1/4" = 1'-0" 2



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GENERAL NOTES

- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

KEYNOTES

- 02 00 03.2 (E) CONCRETE PAVING TO REMAIN
- 02 00 03.3 (E) CONCRETE CURB TO REMAIN
- 02 00 03.5 (E) CONCRETE WHEEL STOP TO REMAIN
- 02 00 32.1 (E) LANDSCAPE TO REMAIN
- 02 00 32.3 (E) 12" HIGH WHITE LETTERS
- 02 00 32.4 (E) STRIPING TO REMAIN
- 02 00 32.5 (E) FLUSH TRANSITION
- 02 00 32.6 (E) INTERNATIONAL SYMBOL OF ACCESSIBILITY PAYMENT SIGNAGE TO REMAIN
- 02 00 32.8 (E) DETECTABLE WARNING SURFACE TO REMAIN, PROTECT IN PLACE
- 02 00 32.12 (E) ASPHALT PAVING TO REMAIN
- 02 00 32.15 (E) SIGNAGE TO REMAIN, PROTECT IN PLACE
- 02 00 32.16 (E) MARQUEE SIGNAGE TO REMAIN, PROTECT IN PLACE
- 02 00 32.17 (E) PLANTER BRICK WALL TO REMAIN, PROTECT IN PLACE
- 03 33 00 ARCHITECTURAL CONCRETE
- 03 41 23 CAST-IN-PLACE CONCRETE STAIR
- 03 41 24 CAST-IN-PLACE CONCRETE RAMP WITH RAILING
- 04 22 00 CONCRETE MASONRY UNIT
- 04 22 23.13 CONCRETE UNIT MASONRY WALL
- 05 10 01 STRUCTURAL STEEL COLUMN
- 32 13 13 SITE CONCRETE PAVING, PER CIVIL & LANDSCAPE DWGS.
- 32 16 13.13 CAST IN PLACE CONCRETE CURB
- 32 17 14 DETECTABLE WARNING SURFACE
- 32 17 23.13 4" PAINTED WHITE PAVEMENT LETTERING TO MATCH EXISTING
- 32 31 16 ACCESSIBLE METAL GATE, SEE GATE SCHEDULE FOR MORE DETAILS
- 32 31 19 SERVICE METAL GATE, FOR MORE INFO, SEE GATE SCHEDULE
- 32 31 32 METAL SCREEN FENCE
- 32 33 00.1 DELIVERY SIGN
- 32 33 00.2 TRASH ENCLOSURE SIGN
- 32 33 12 TRASH & RECYCLING RECEPTACLES
- 32 39 01 HANDRAIL

SITE PLAN LEGEND

- NEW BUILDING STRUCTURE
- EXISTING STRUCTURE TO REMAIN
- EXISTING LANDSCAPE TO REMAIN
- NEW LANDSCAPE
- NEW CONCRETE PAVING/JOINT
- EXISTING CONCRETE TO REMAIN
- PROPERTY LINE
- EXISTING CHAINLINK FENCE
- EXISTING METAL FENCE

NOTE:
1. CONTRACTOR TO DEMOLISH CONCRETE PAVING TO ITS NEAREST CONTROL JOINT OR EXPANSION JOINT, VERIFY IN FIELD

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PROJECT No. :1-104-01
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DATE	BY	REVISION

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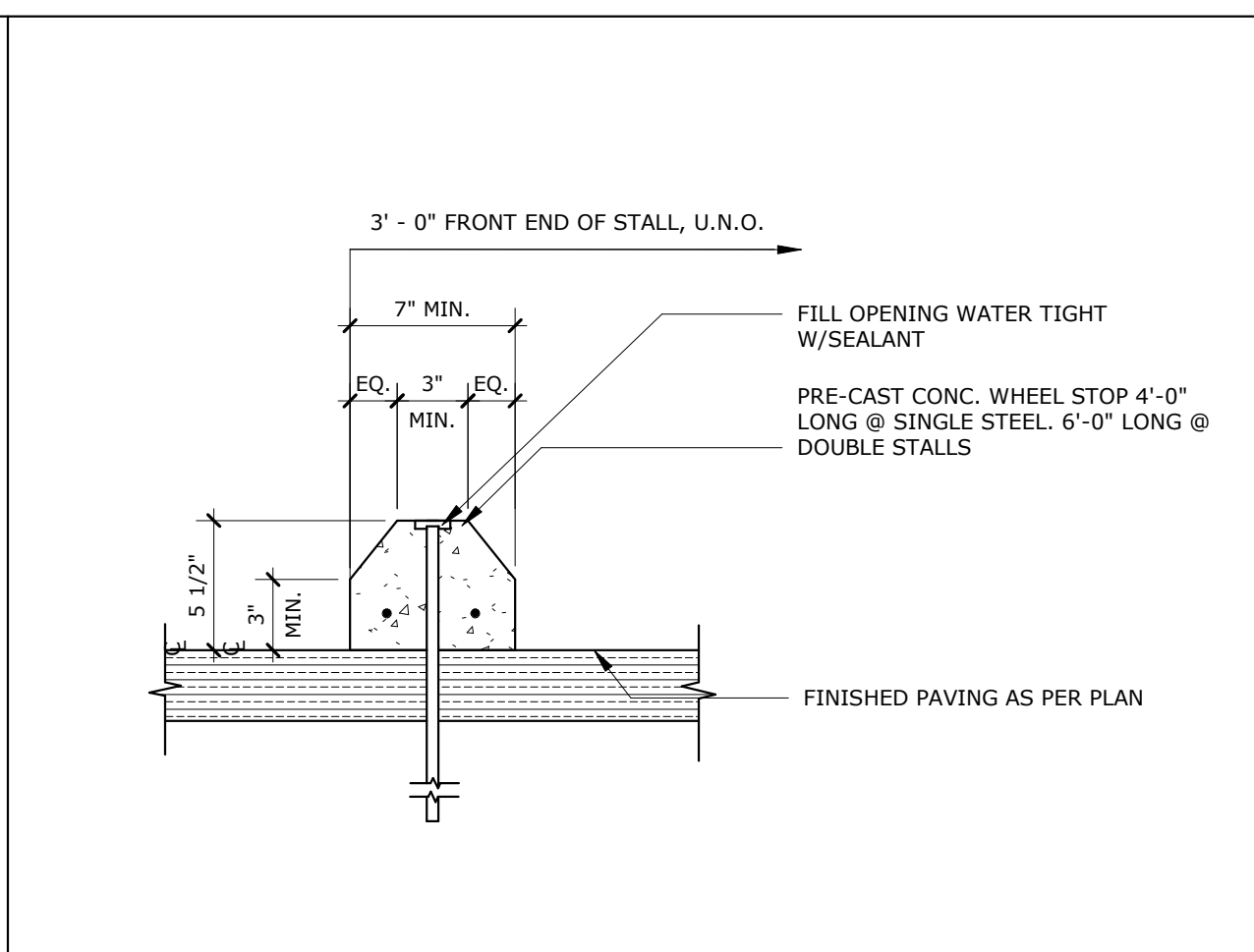
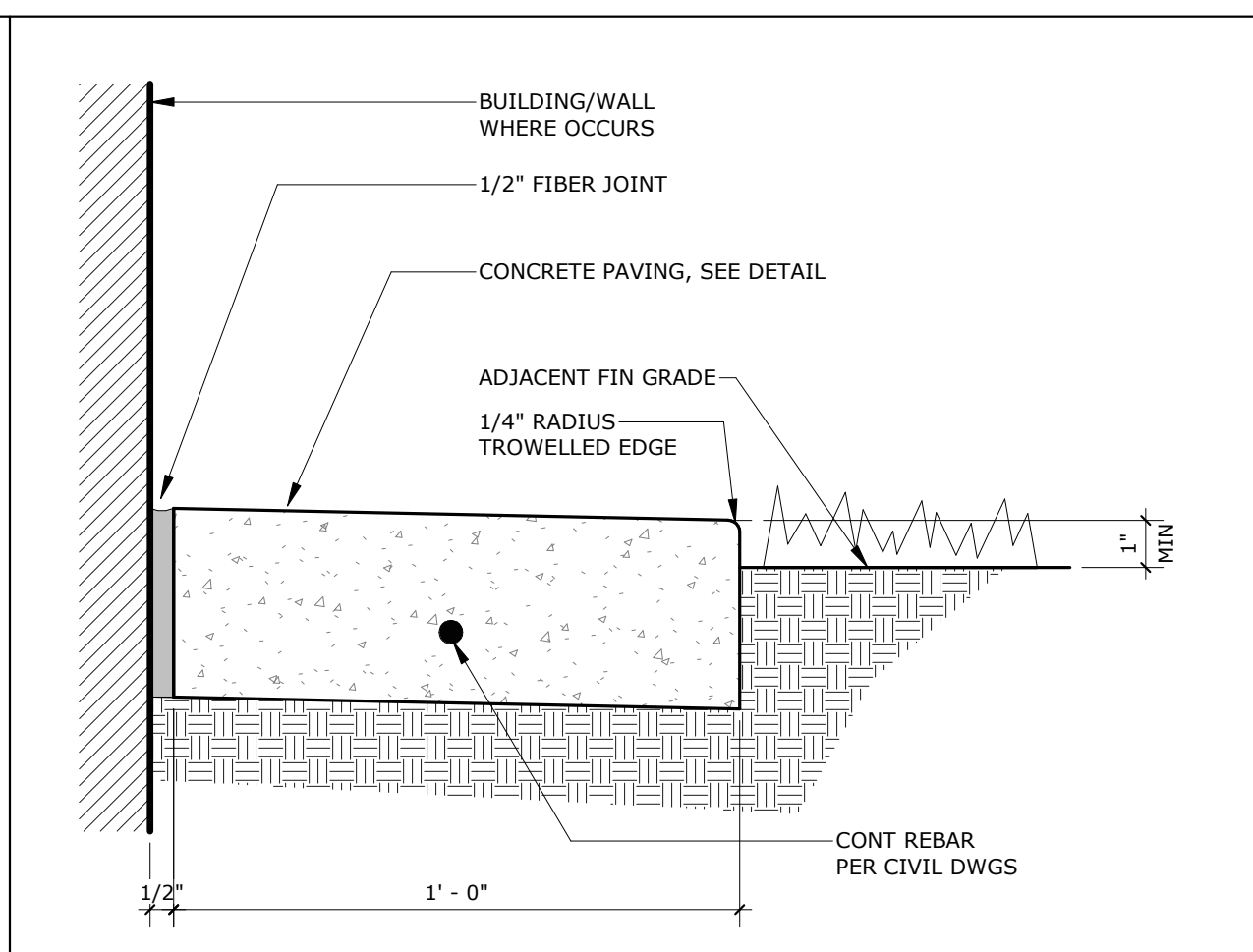
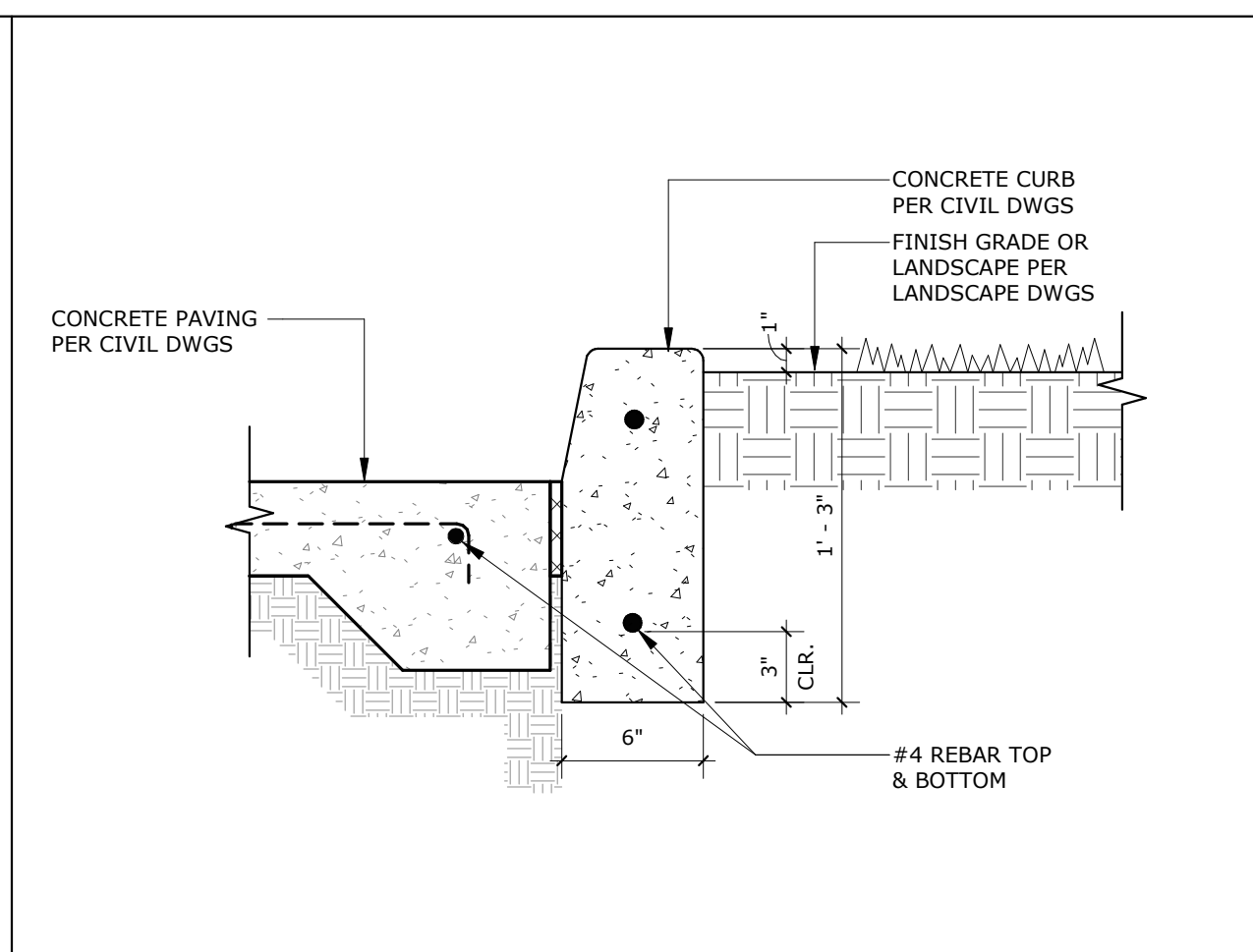
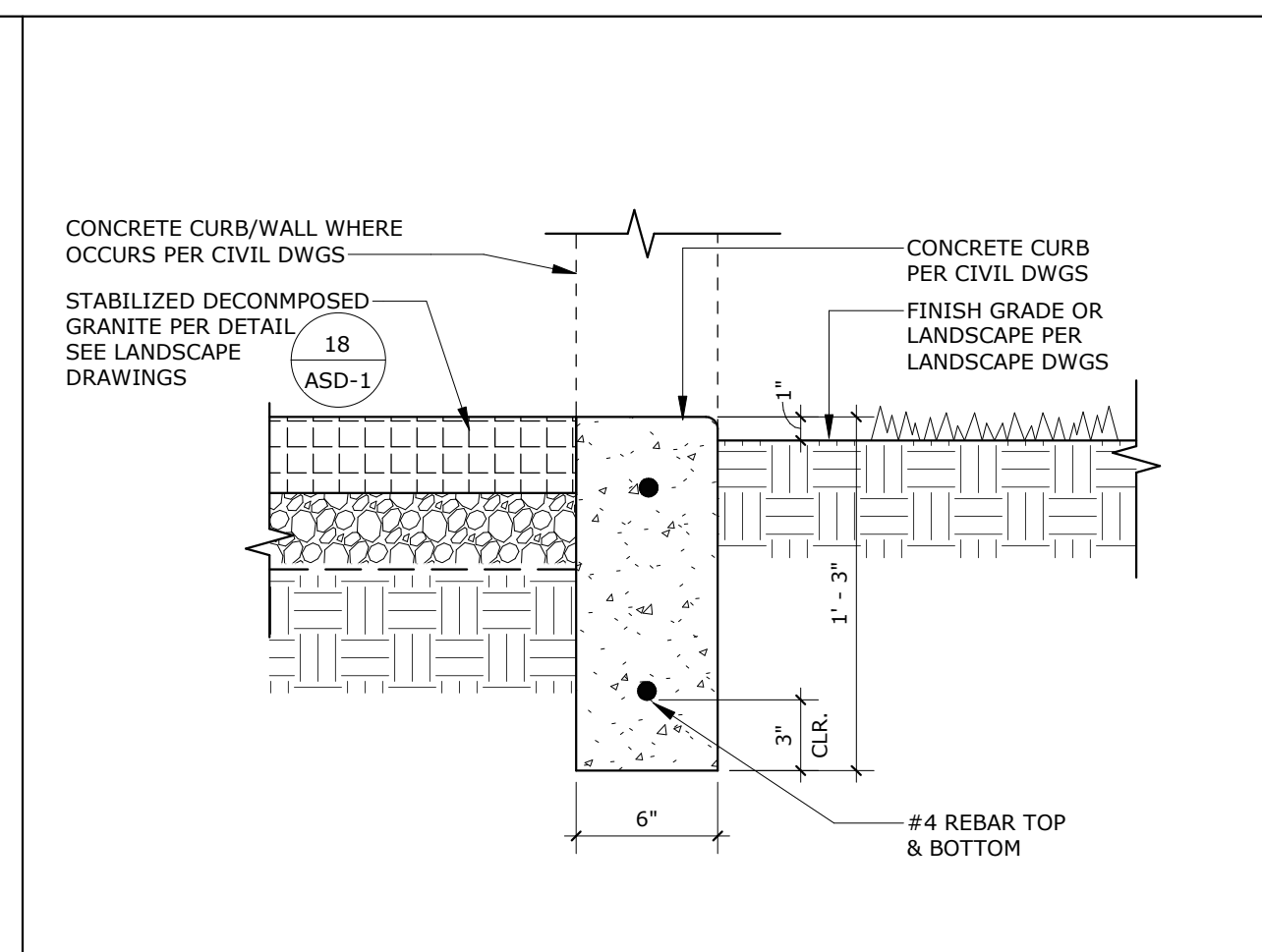
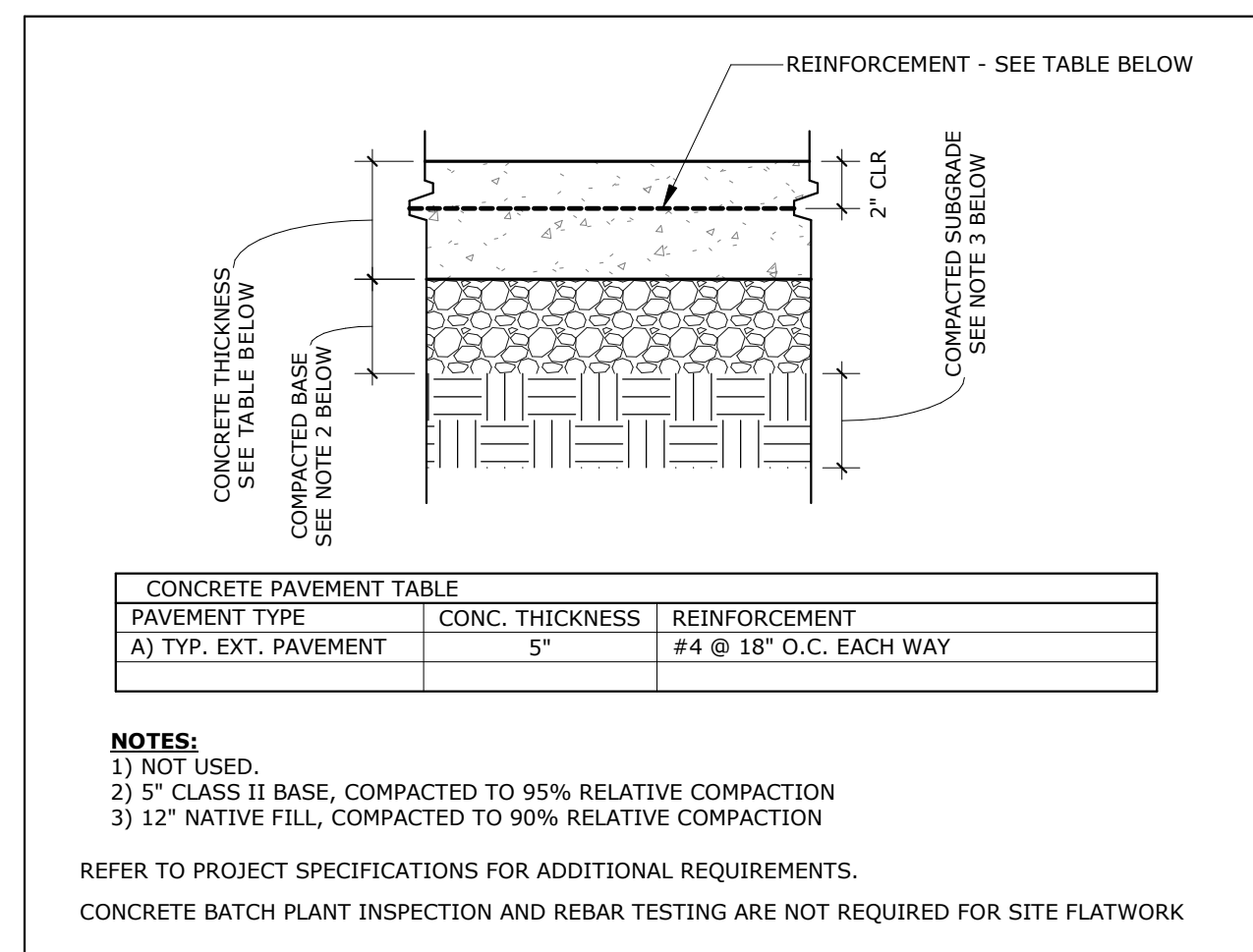
KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK, C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

ENLARGED SITE PLAN
AND ELEVATIONS

AS-2.1

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
 FILE NO. 11-104-01

REGISTERED ARCHITECT
 STATE OF CALIFORNIA
 No. 10-31-20

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 ARCHITECTS

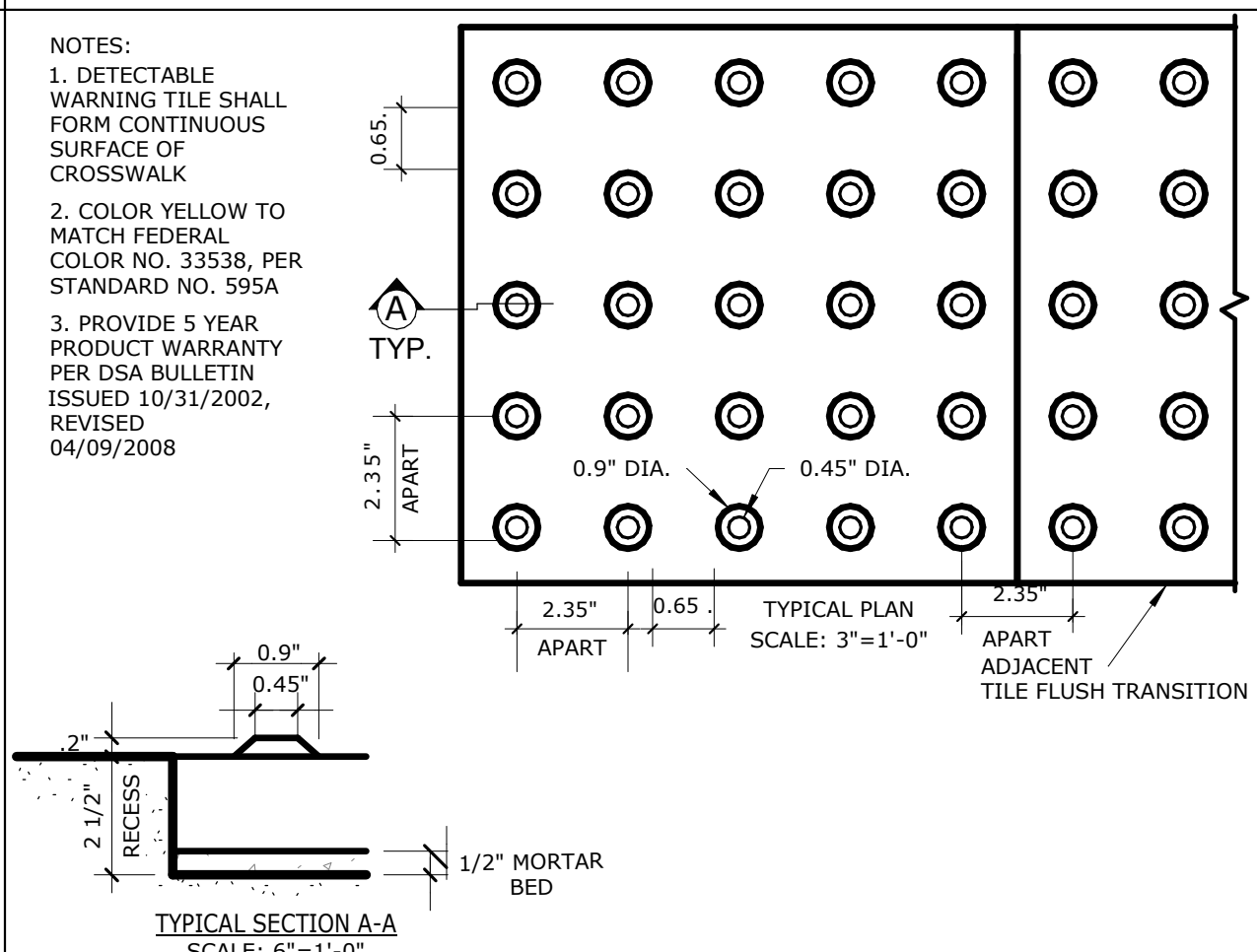
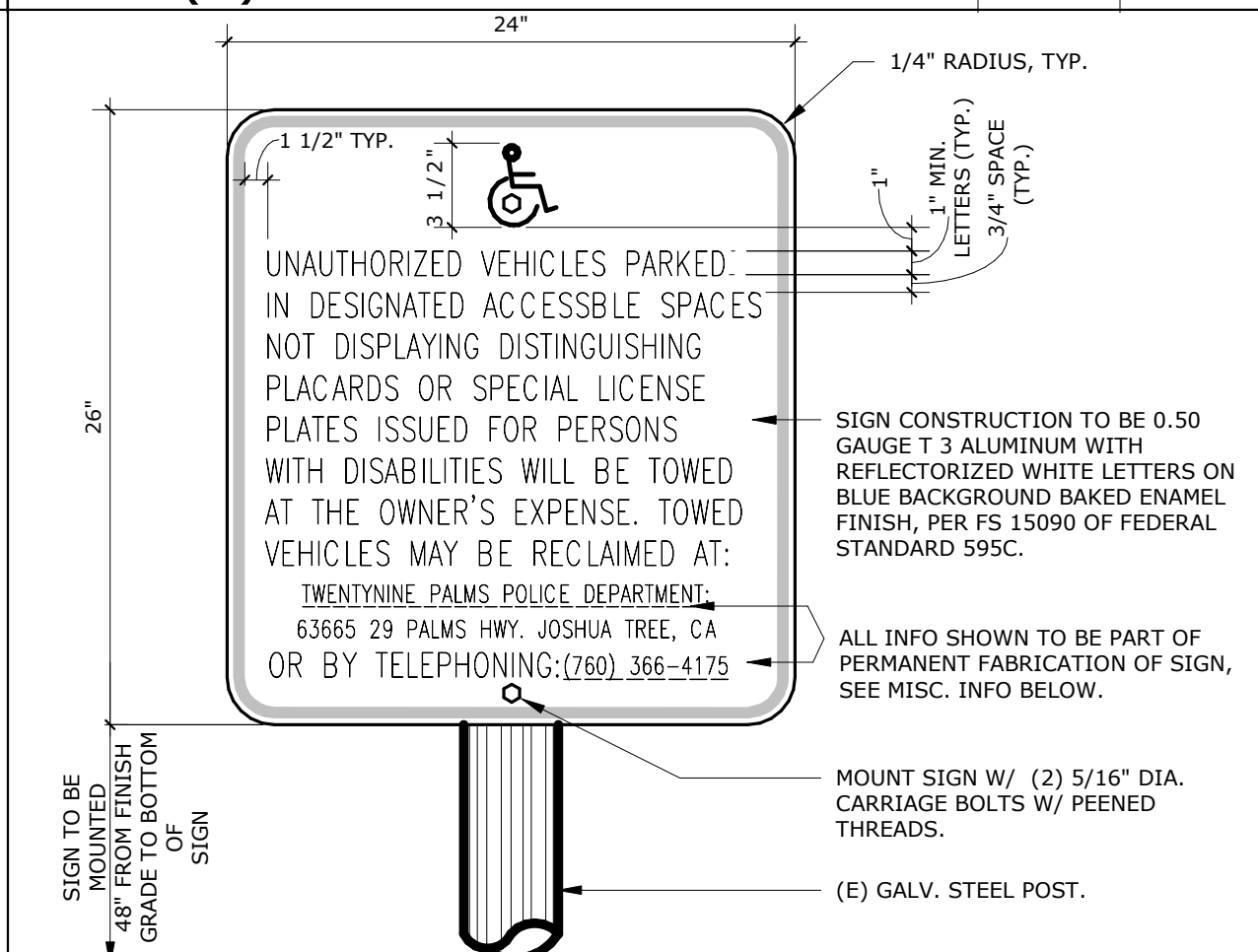
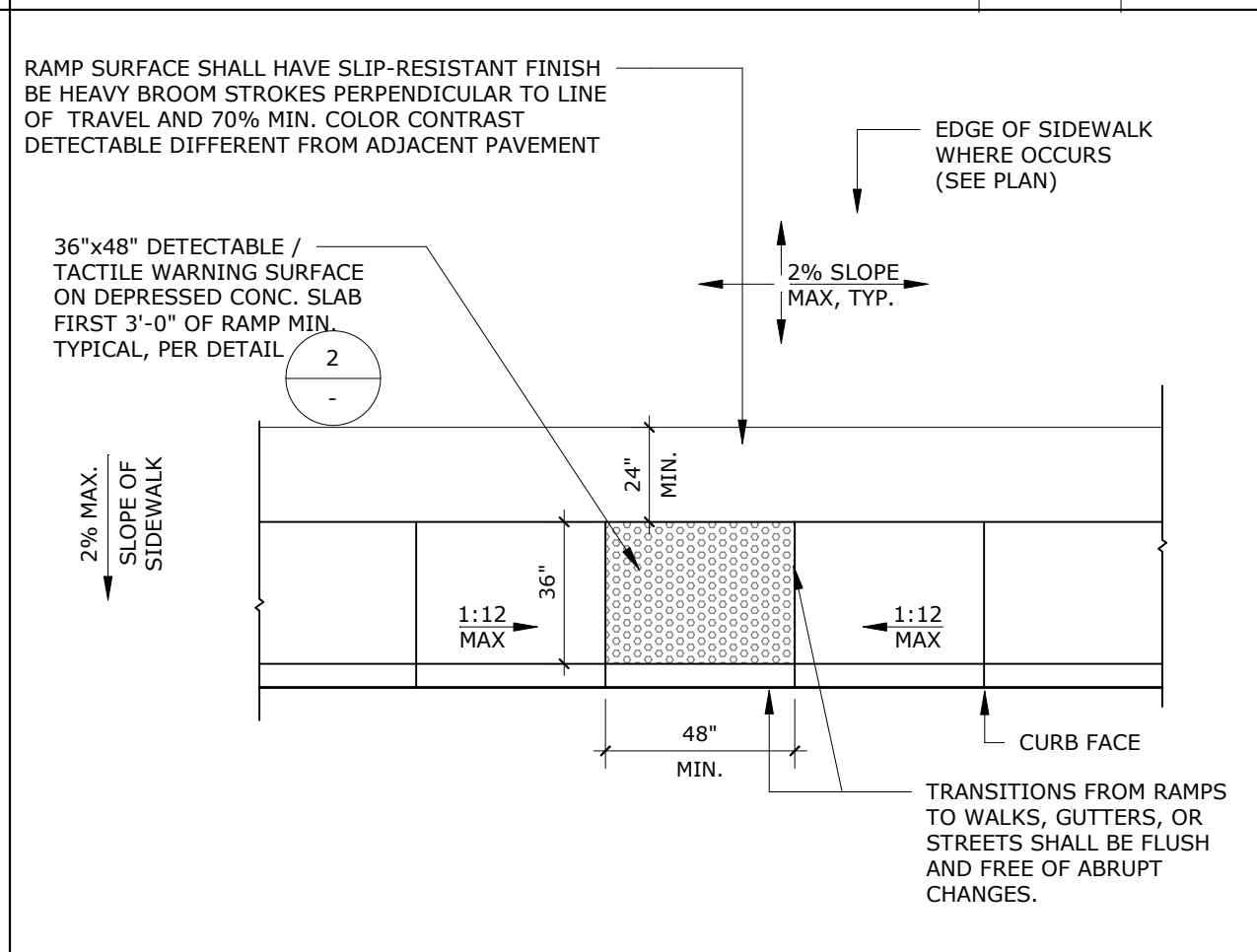
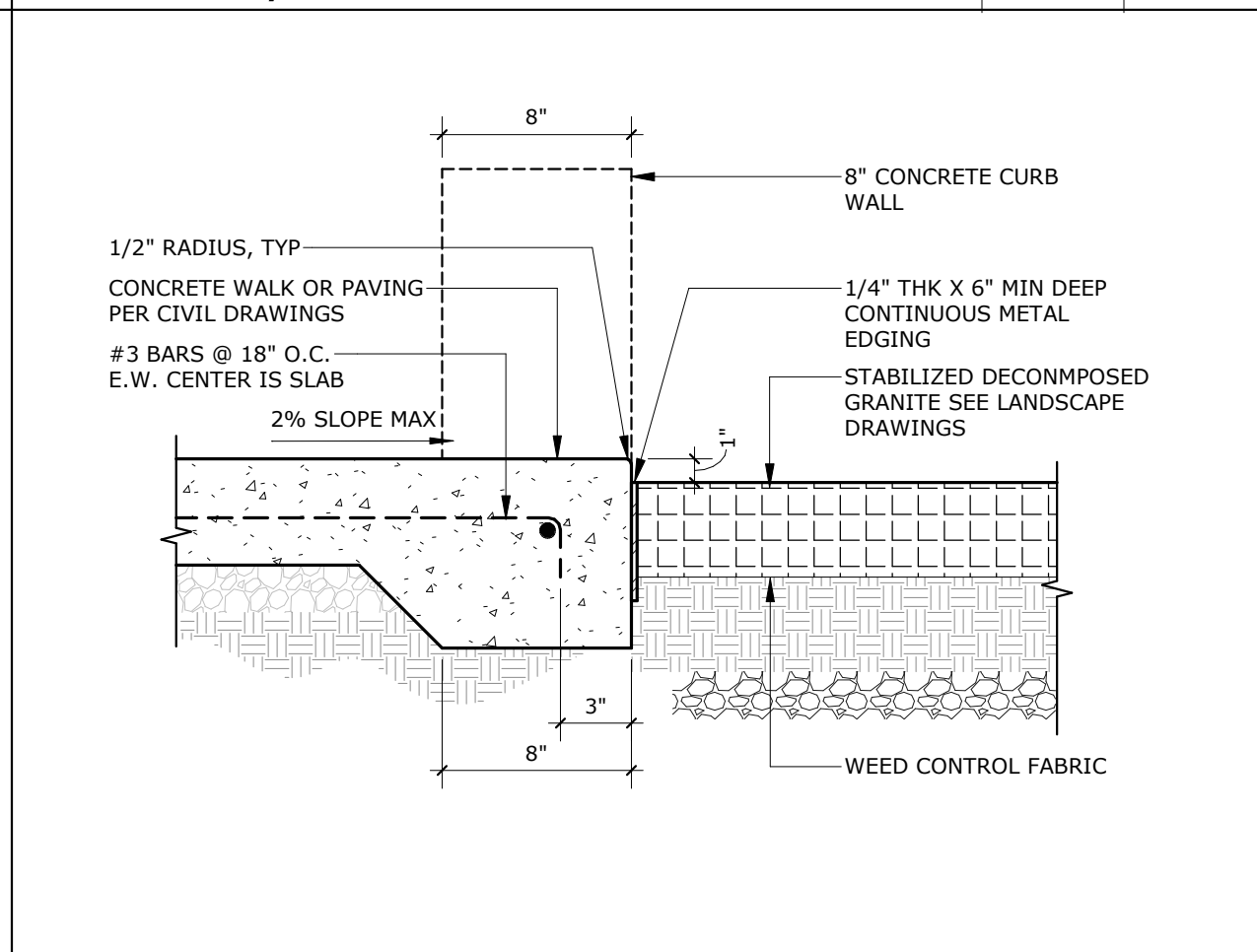
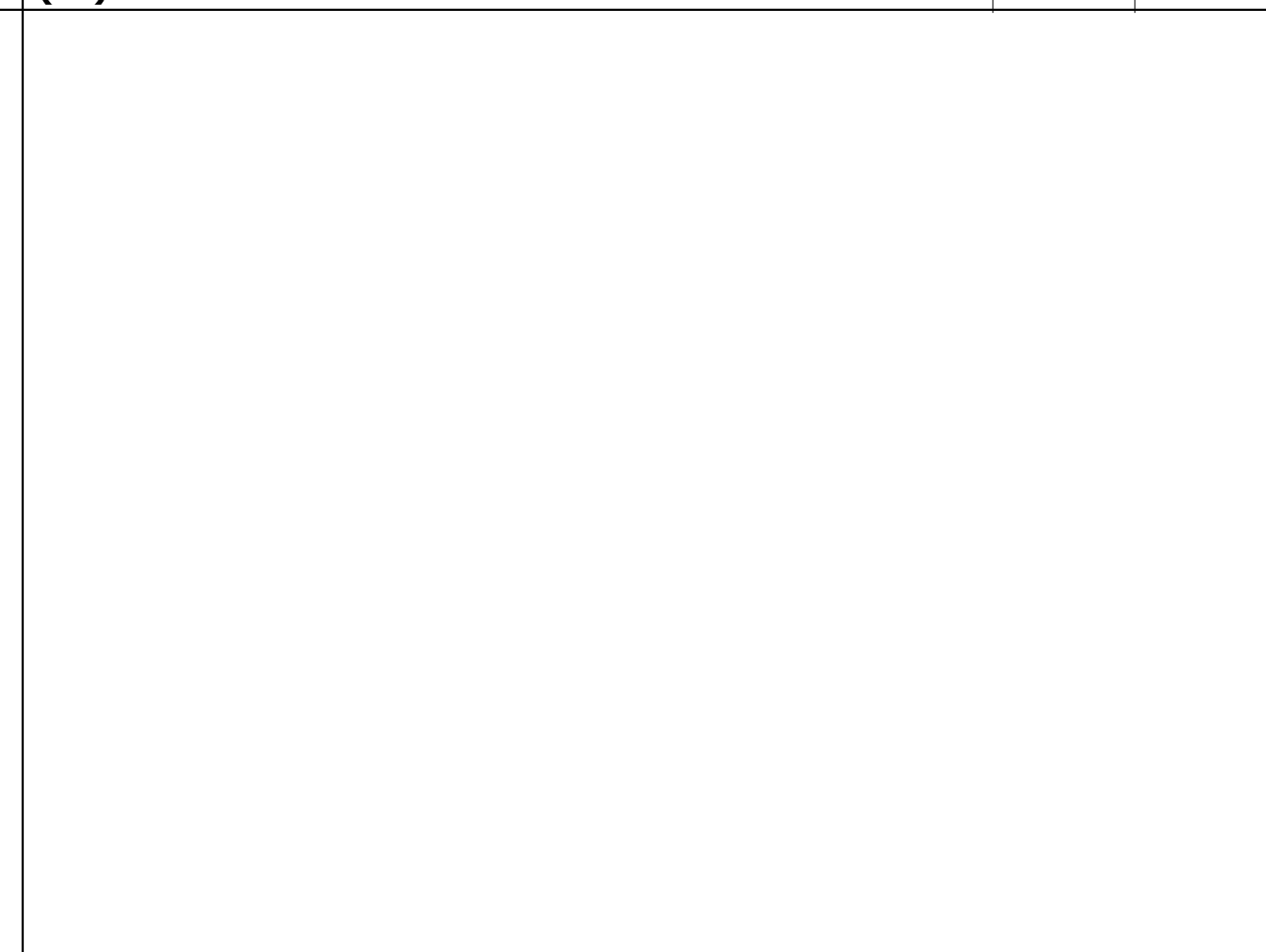
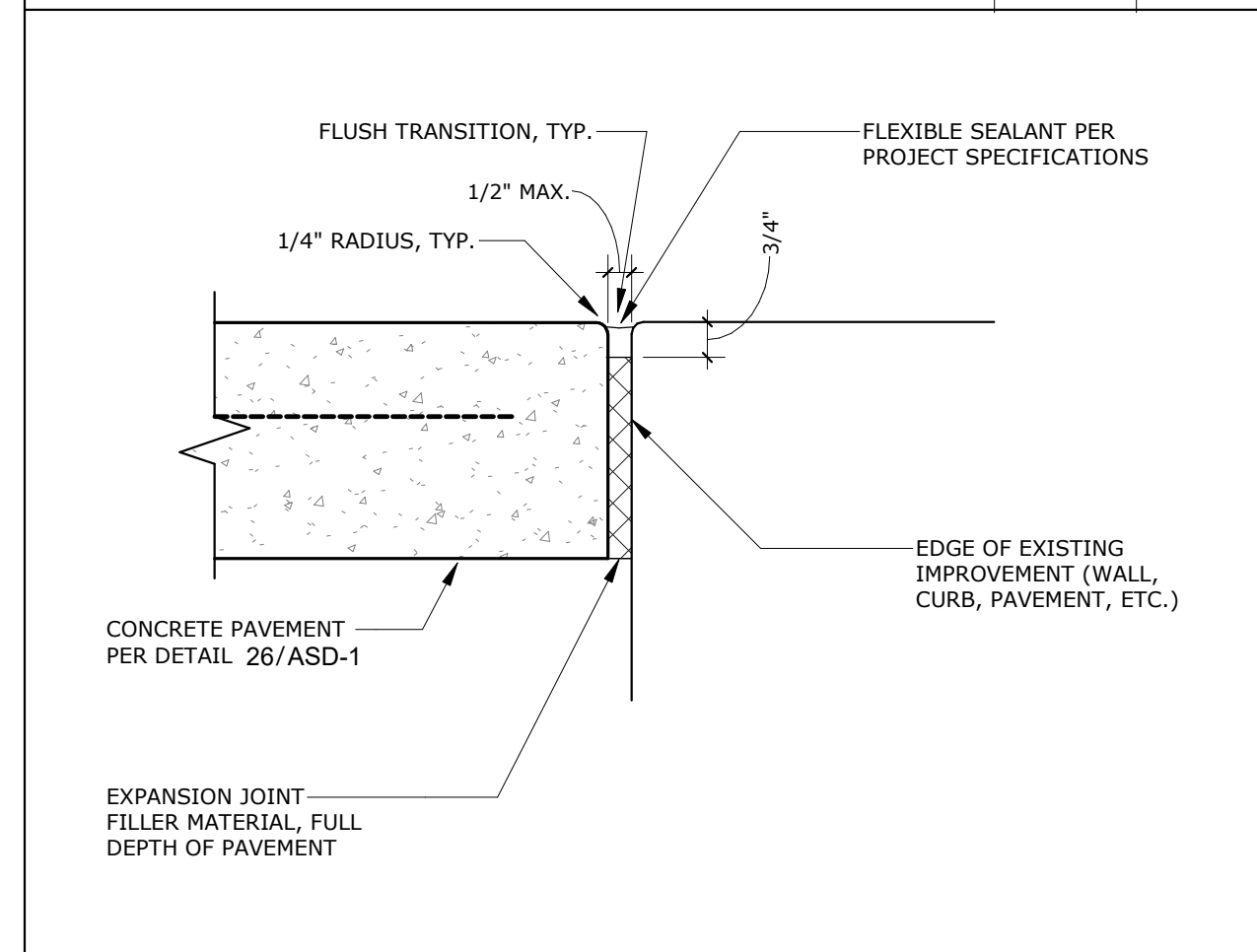
TYP. CONCRETE PAVING SCALE: 1 1/2" = 1'-0" 26

(E) LANDSCAPE @ CURB AND DG SCALE: 1 1/2" = 1'-0" 21

LANDSCAPE/CURB @ ACCESS PATH. SCALE: 1 1/2" = 1'-0" 16

CONCRETE MOW STRIP @ BLDG SCALE: 3" = 1'-0" 11

(E) CONCRETE WHEELSTOP SCALE: 1 1/2" = 1'-0" 6



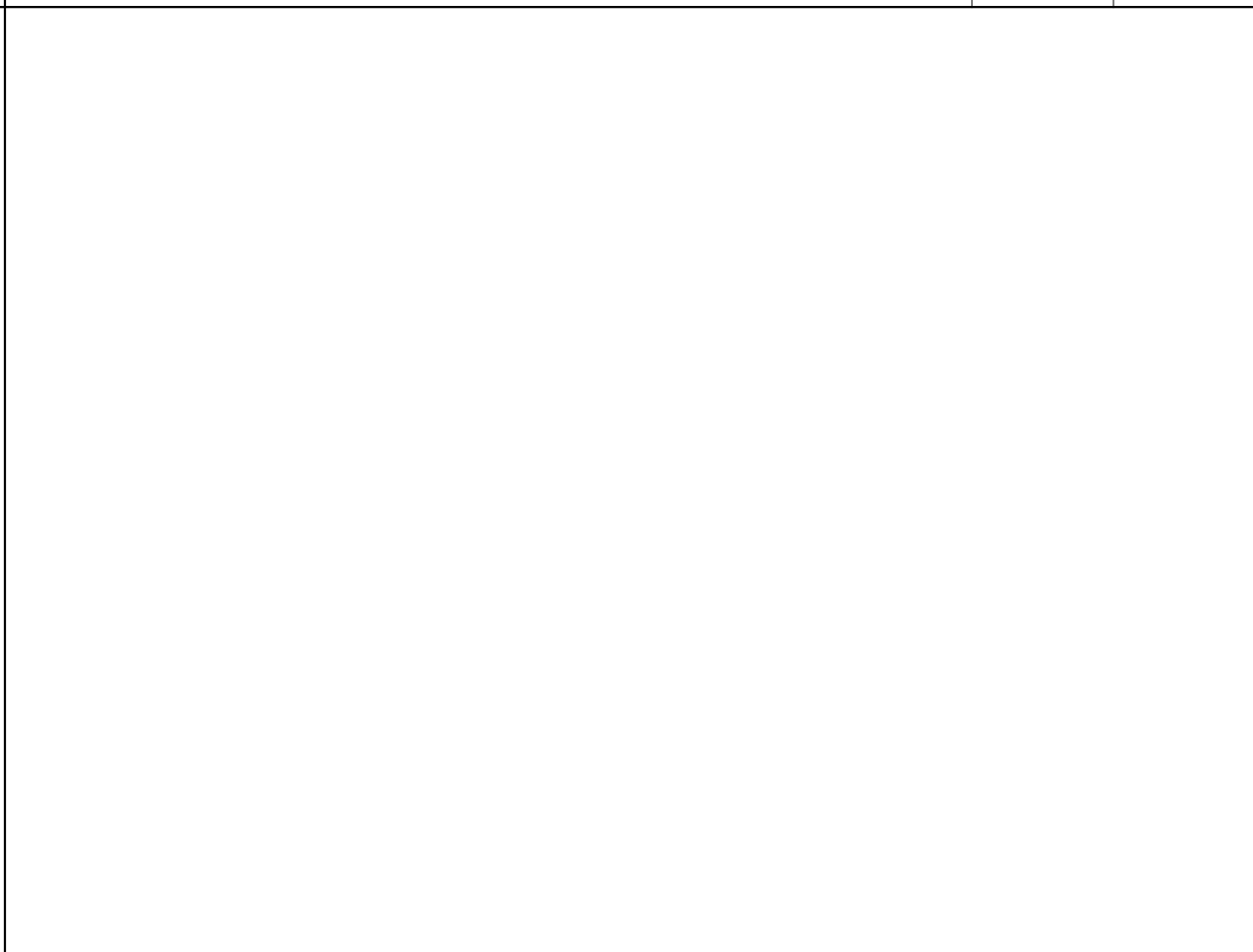
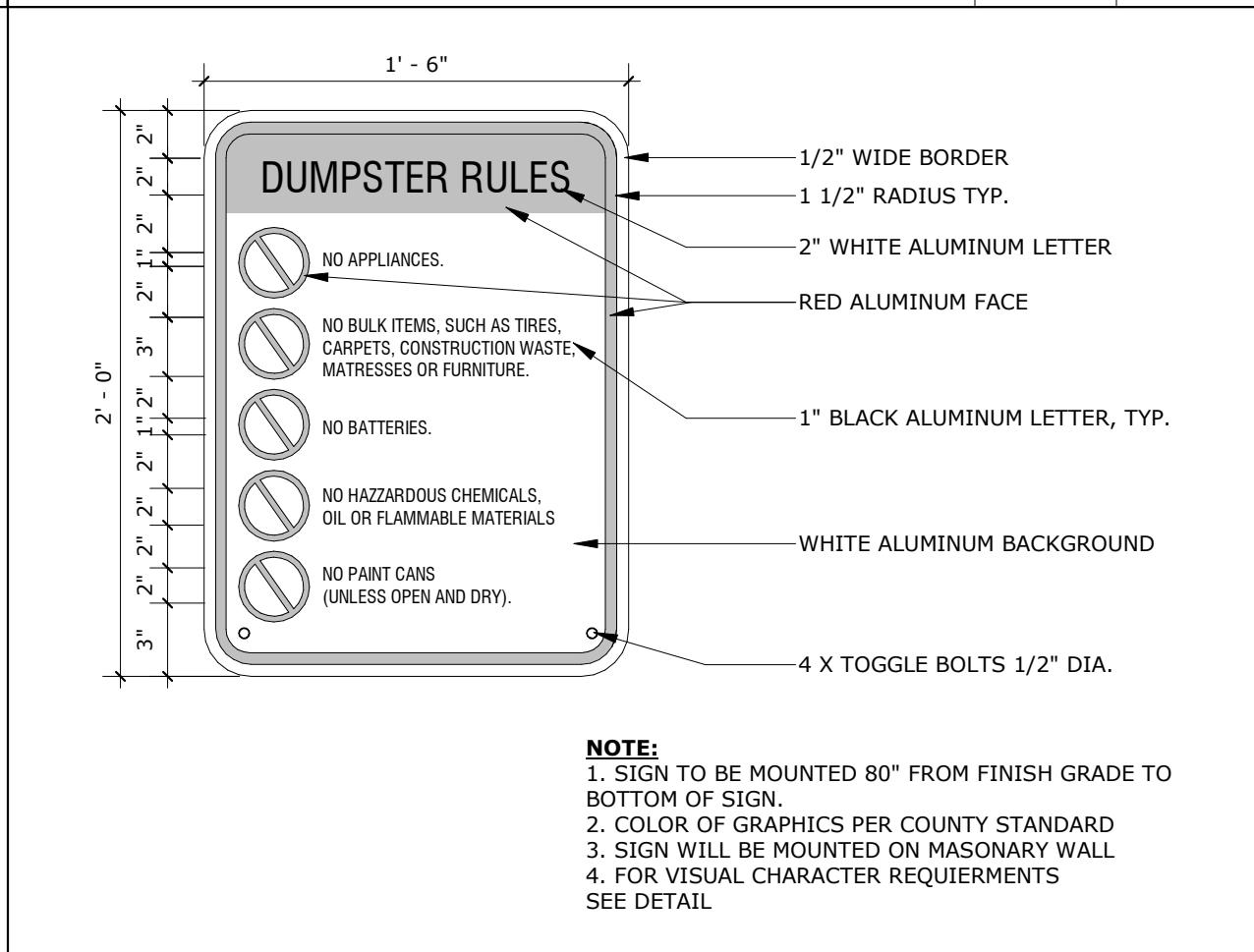
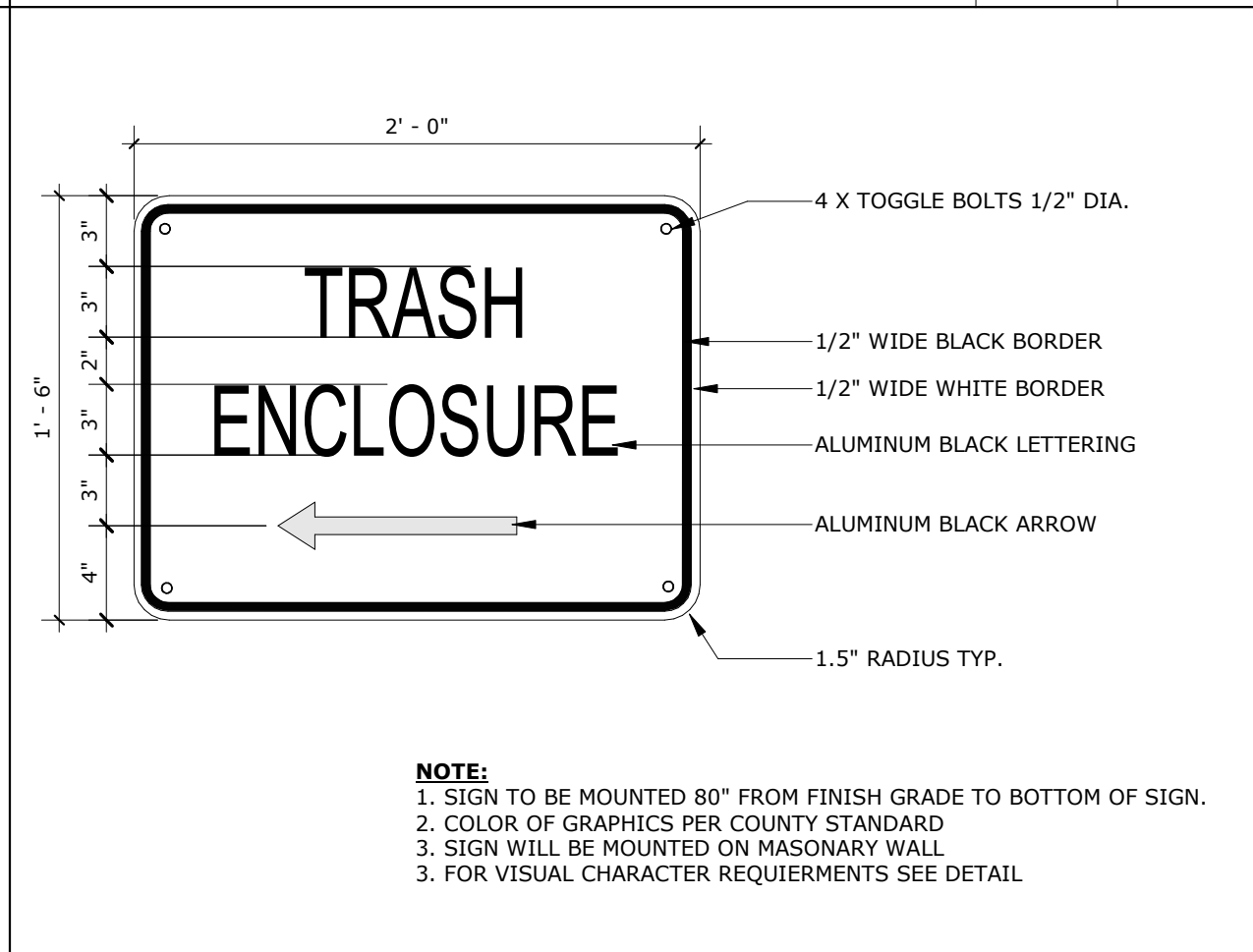
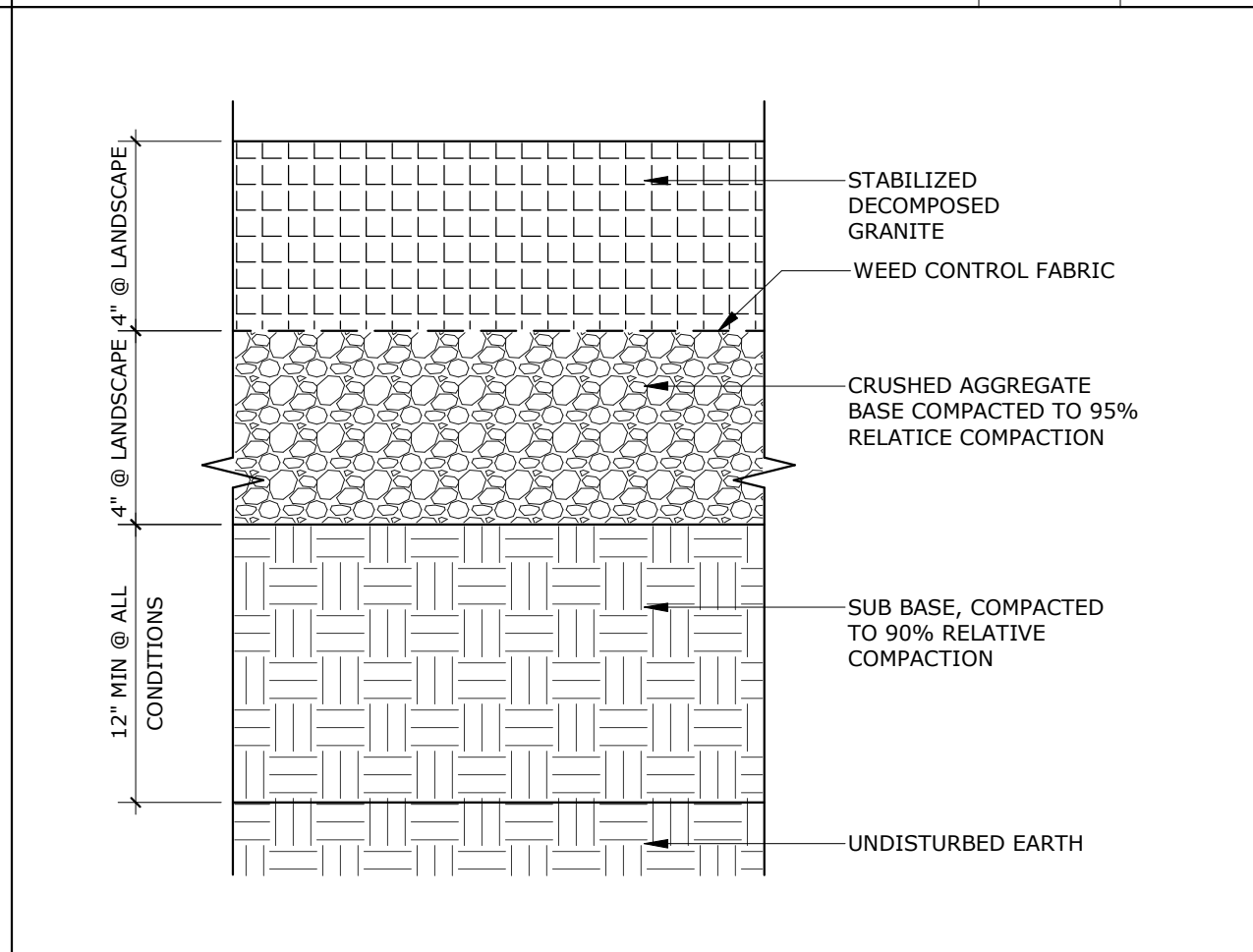
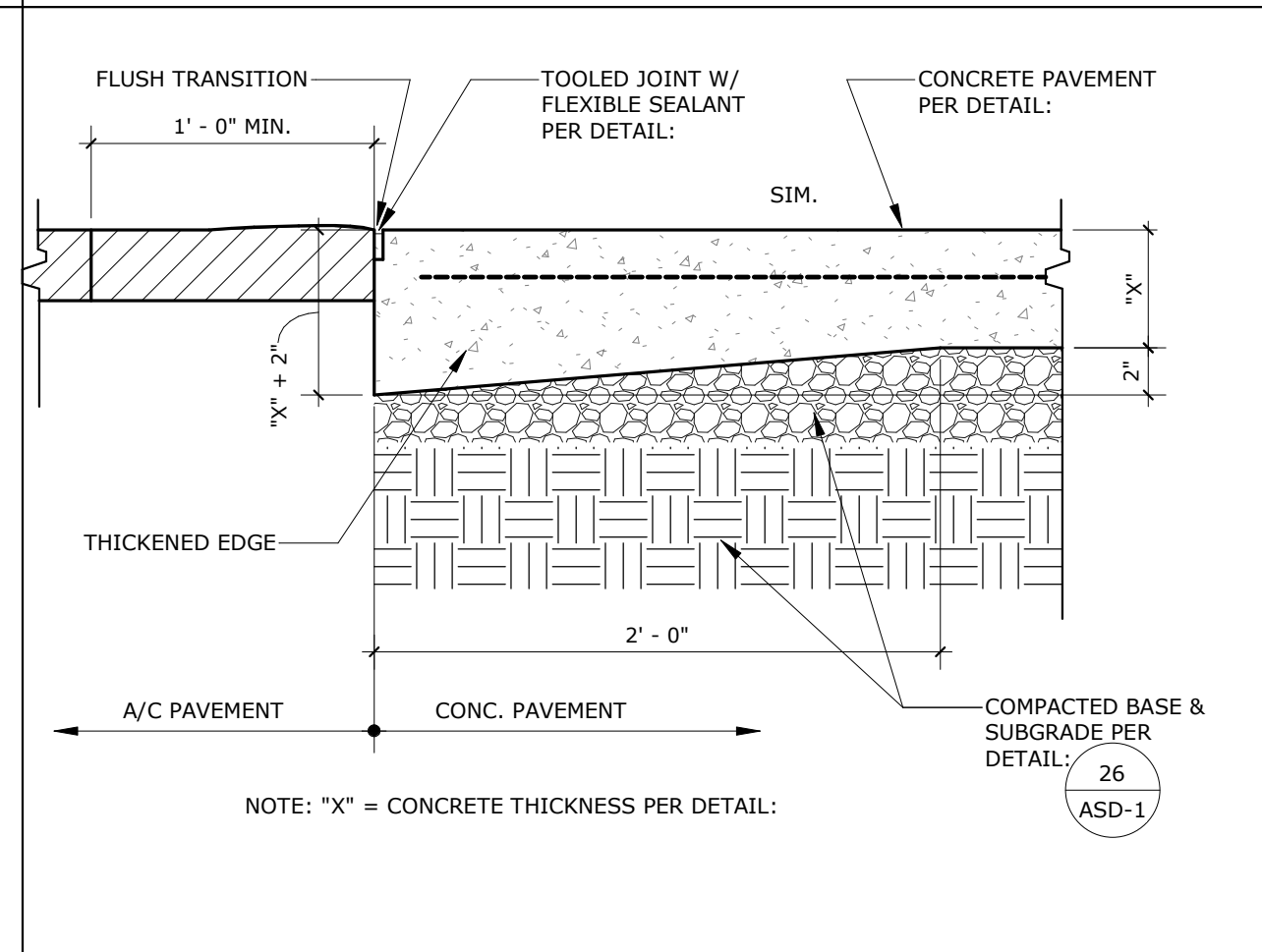
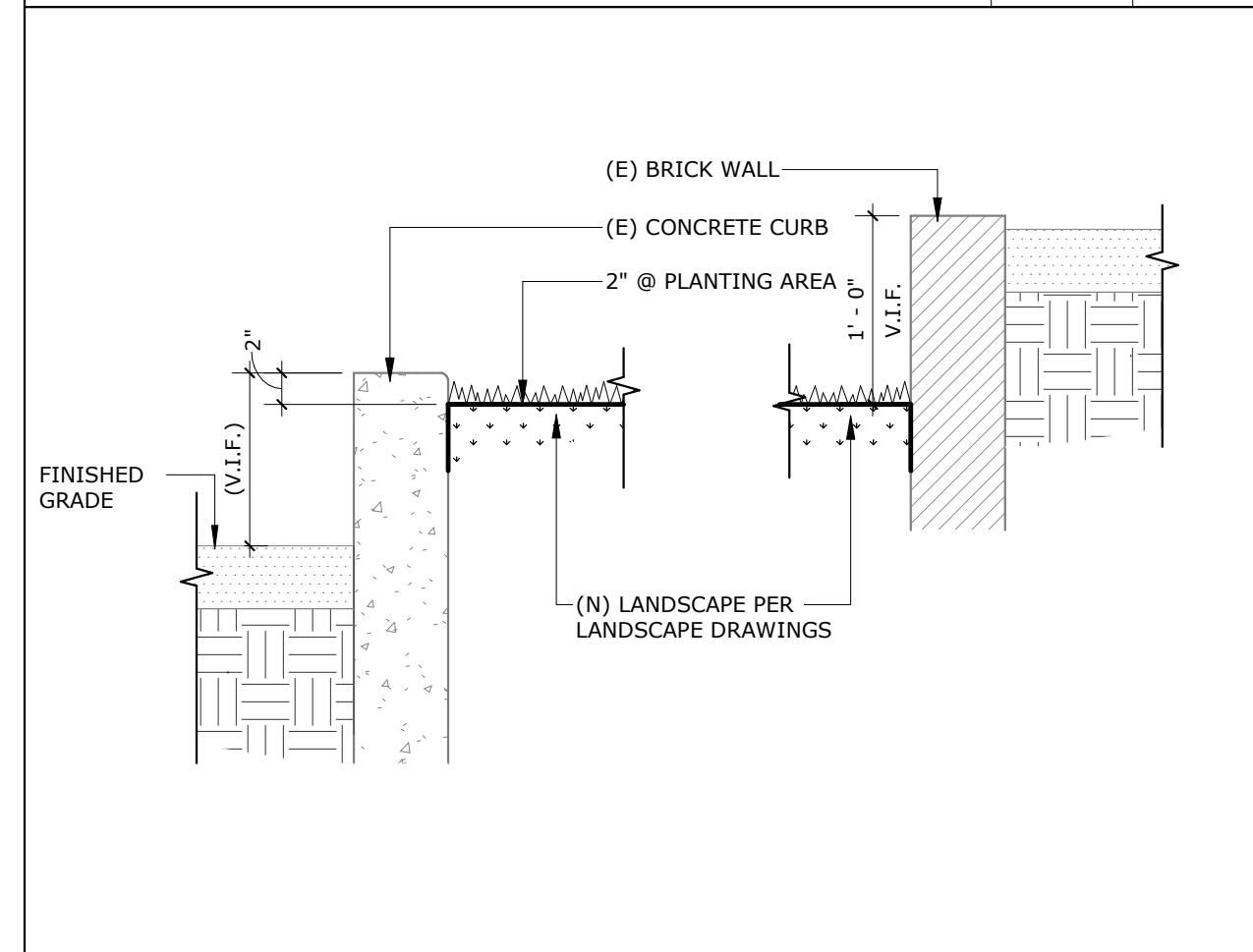
TYP. EXPANSION JOINT SCALE: 3" = 1'-0" 27

CONCRETE/D.G. EDGE SCALE: 1 1/2" = 1'-0" 17

ACCESSIBLE CURB RAMP SCALE: 1/4" = 1'-0" 12

(E) TOW-AWAY SIGNAGE SCALE: 1 1/2" = 1'-0" 7

DETECTABLE WARNING SIGN SCALE: 3" = 1'-0" 2



(N) LANDSCAPE @ (E) RTNG WALL SCALE: 1" = 1'-0" 28

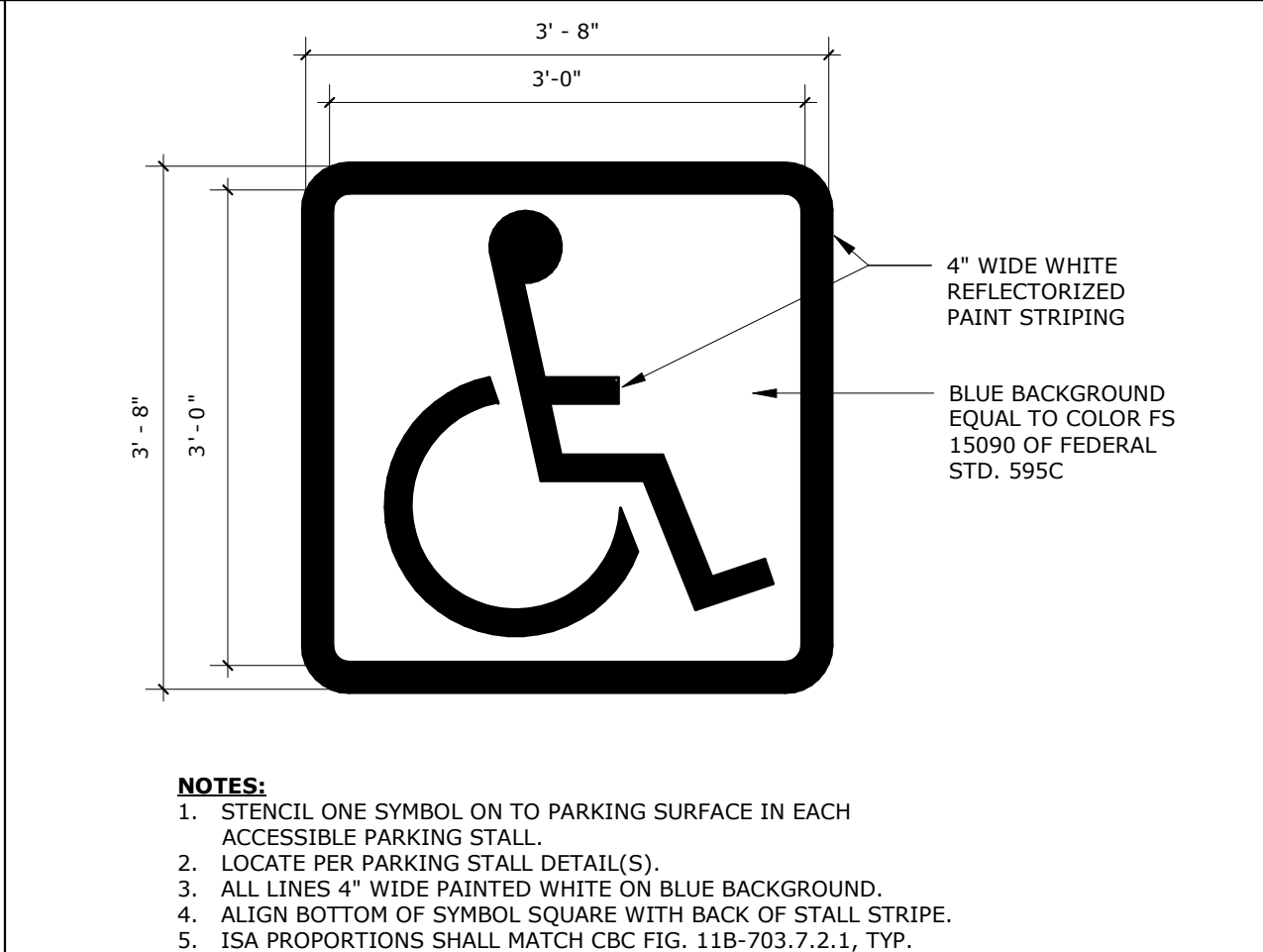
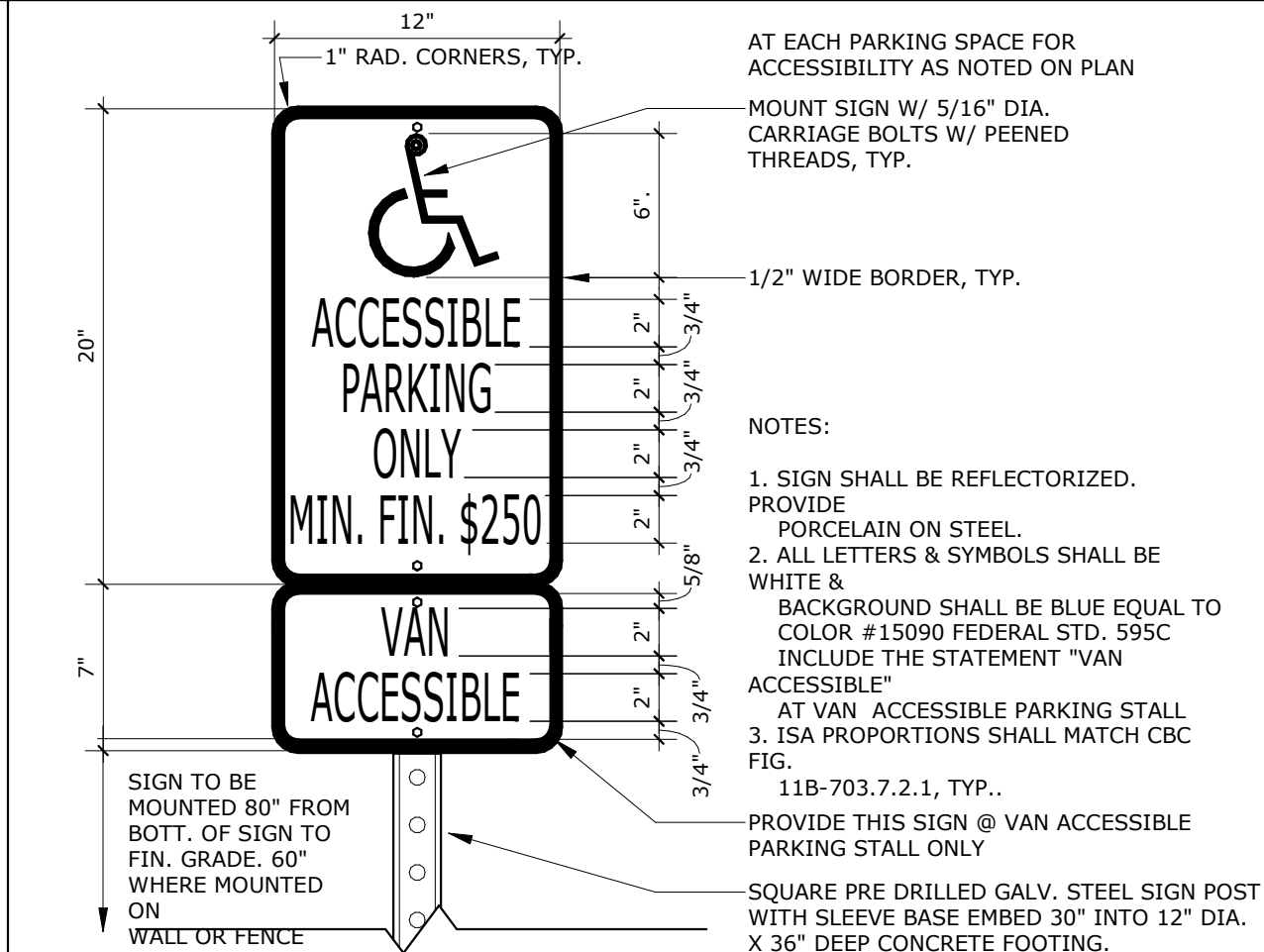
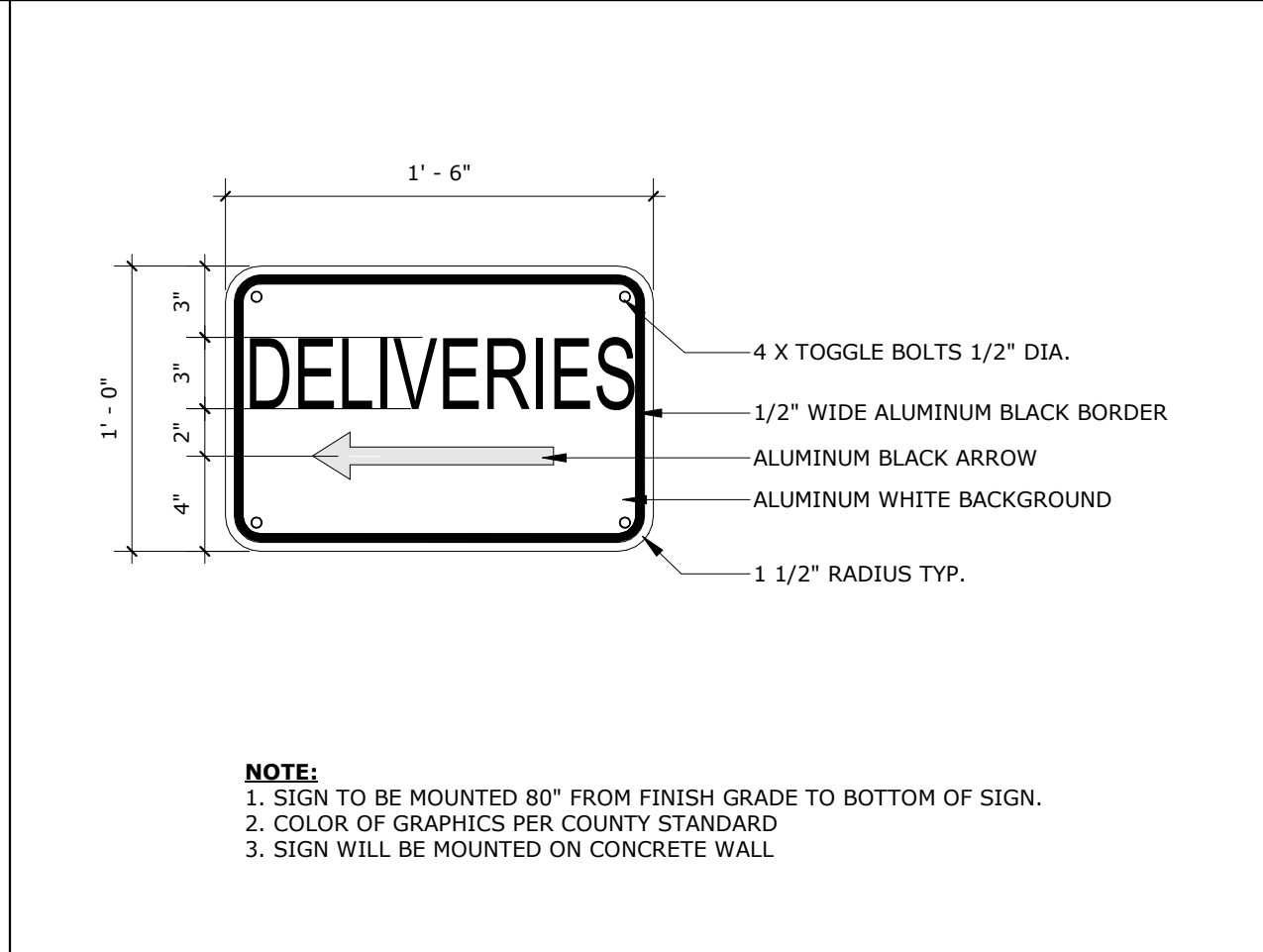
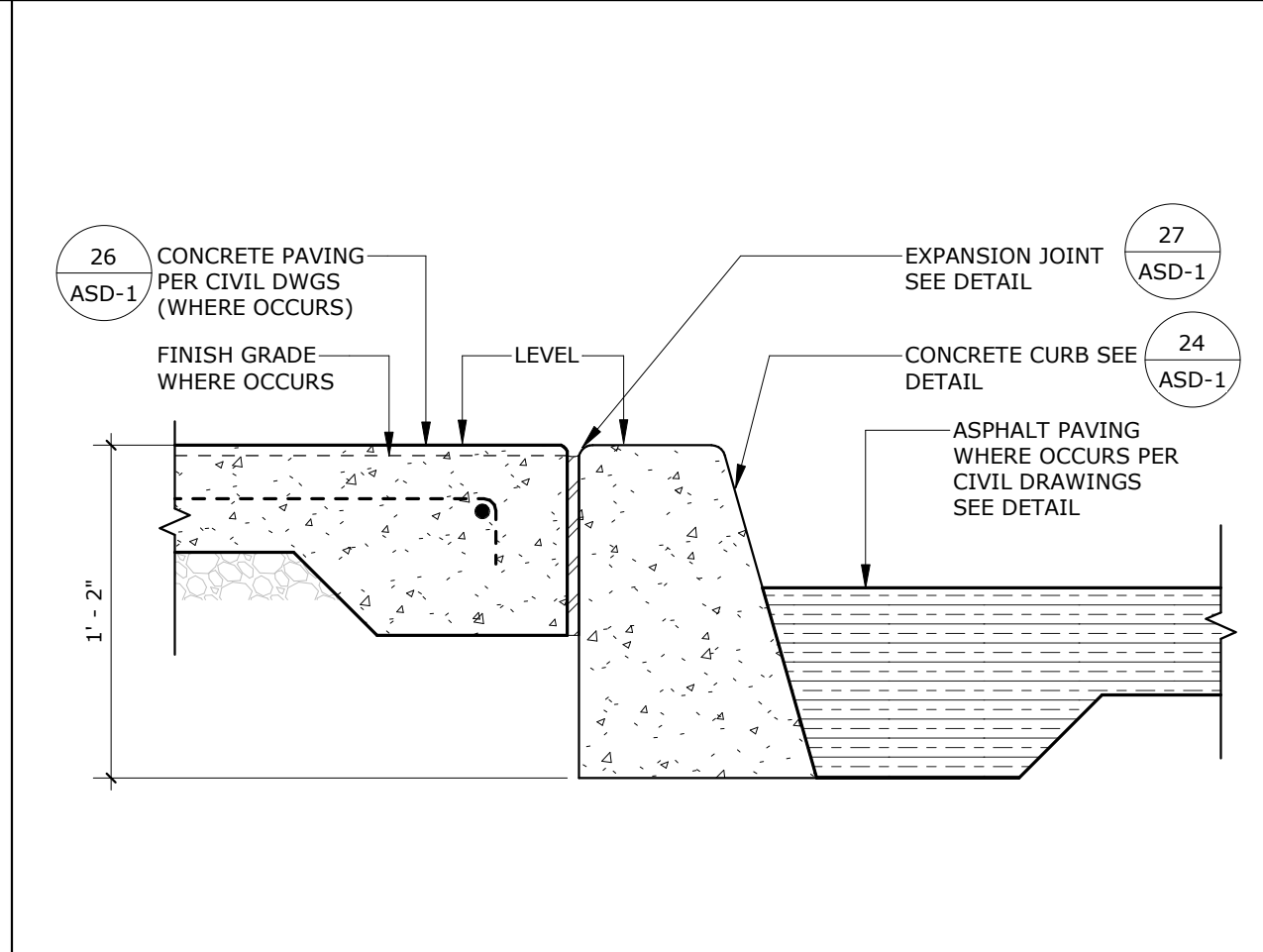
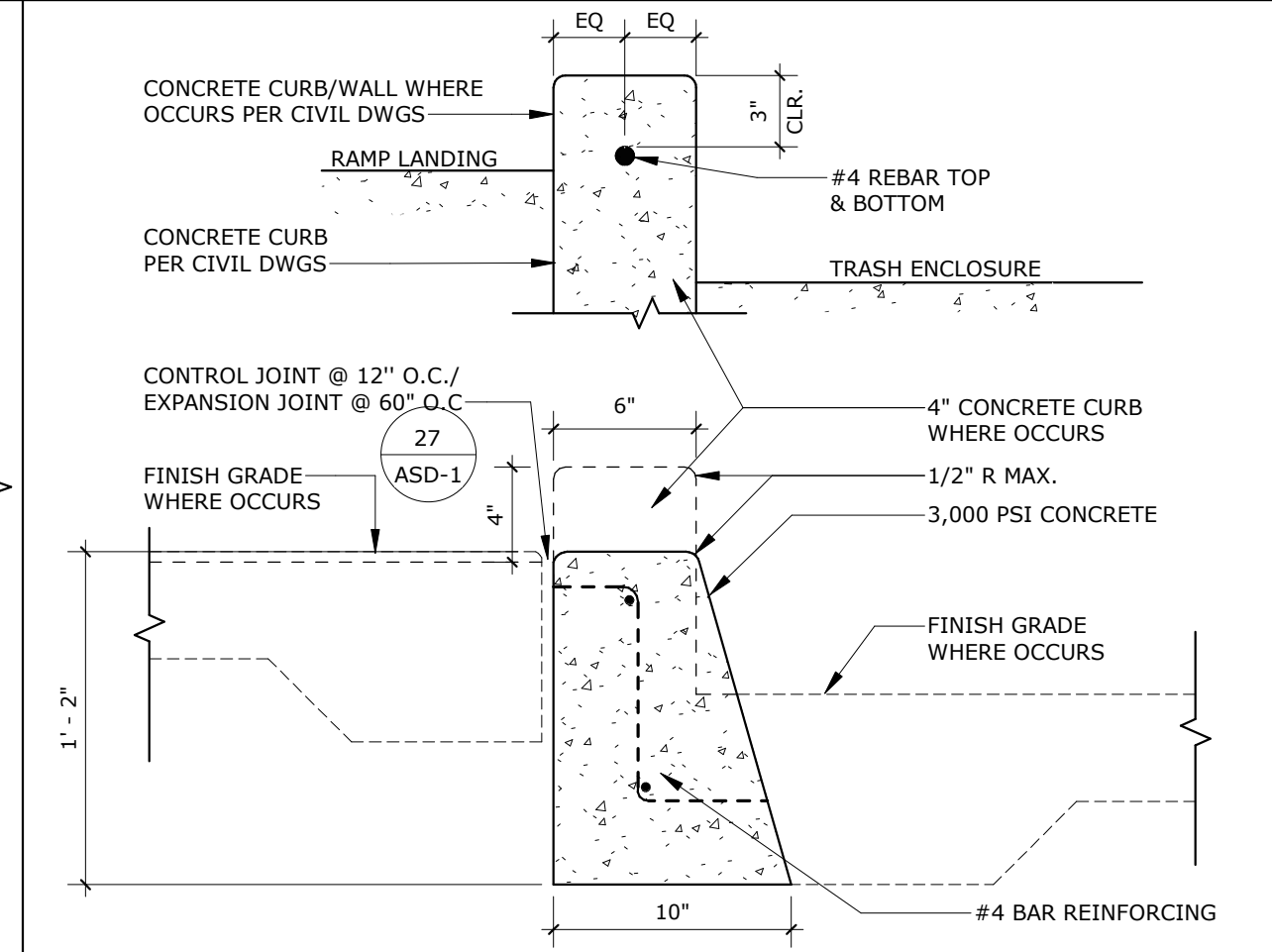
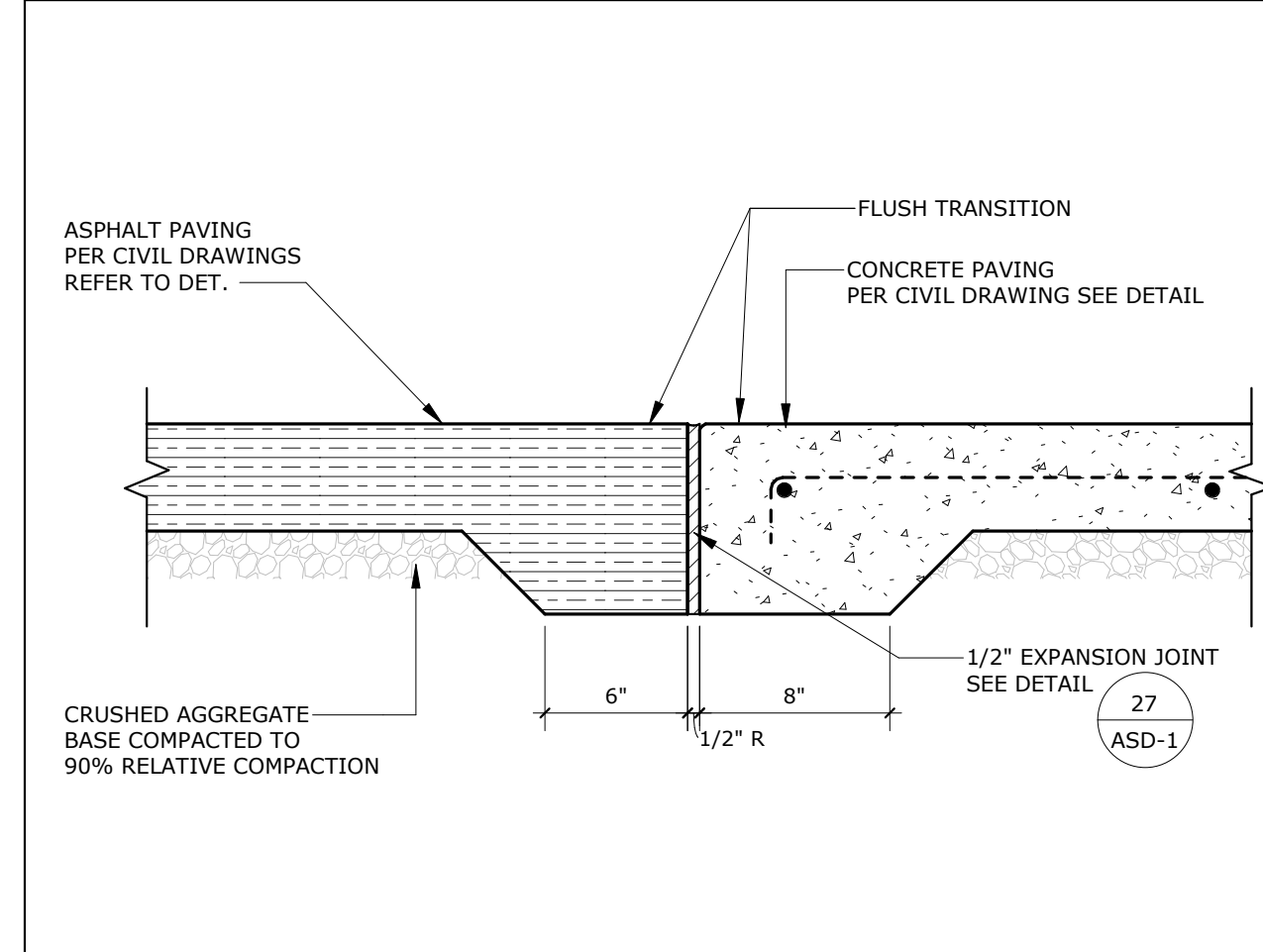
TYP. EDGE OF PAVEMENT SCALE: 1 1/2" = 1'-0" 23

DECOMPOSED GRANITE SCALE: 12" = 1'-0" 18

TRASH ENCLOSURE SIGN SCALE: 1 1/2" = 1'-0" 13

DUMPSTER RULES SIGN SCALE: 1 1/2" = 1'-0" 8

(E) ISA PAVEMENT SIGN SCALE: 3/4" = 1'-0" 4



ASPHALT TO CONCRETE SCALE: 1 1/2" = 1'-0" 29

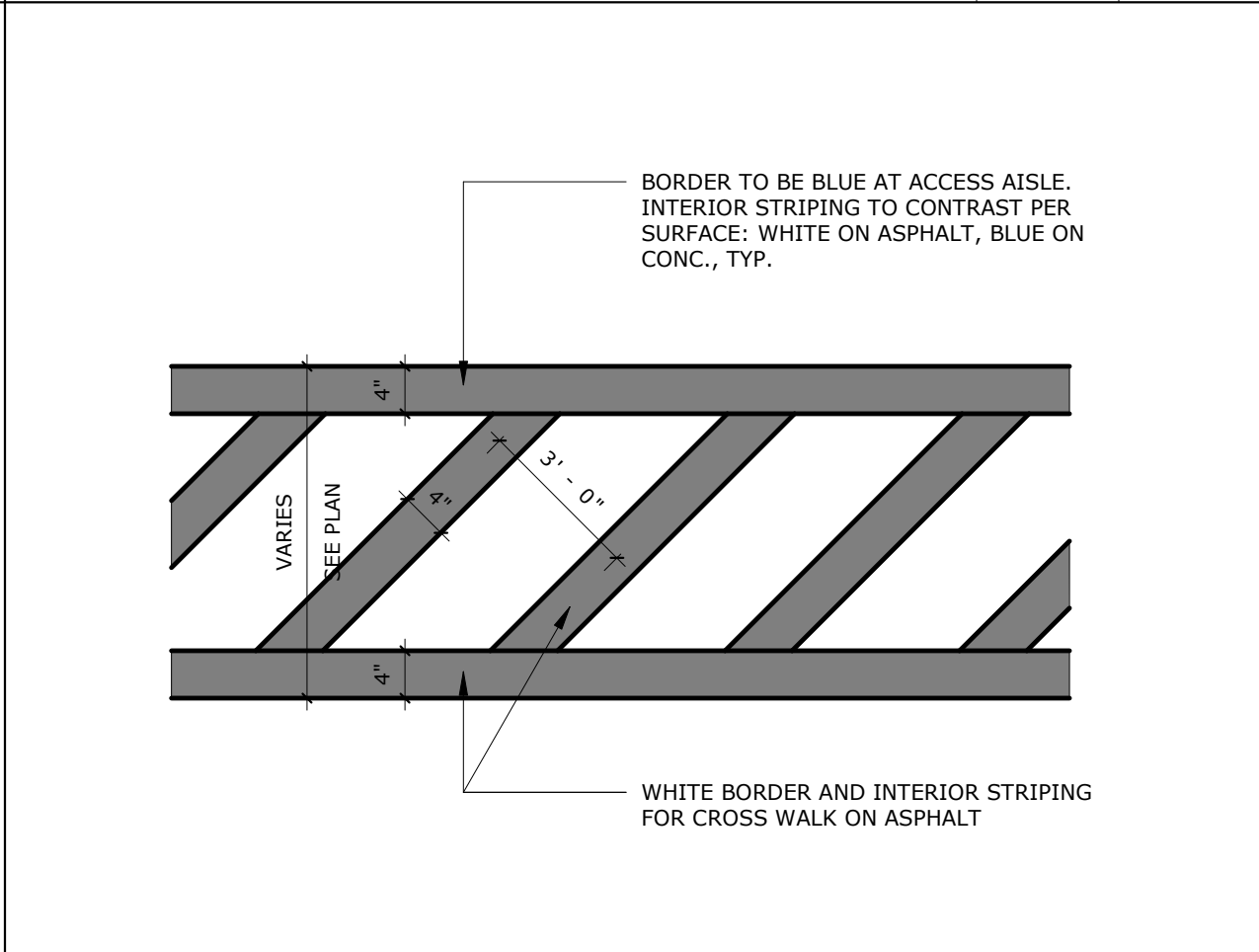
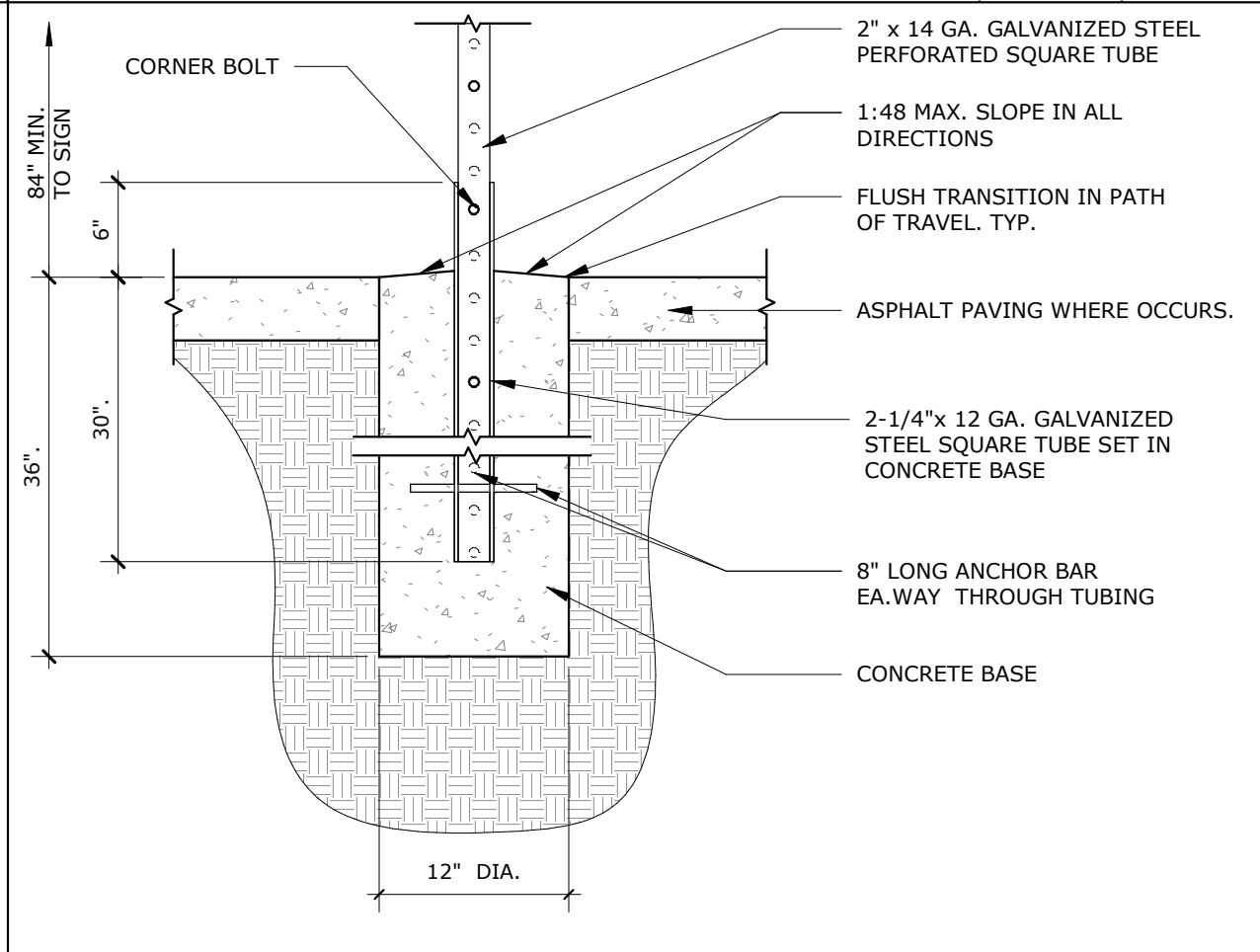
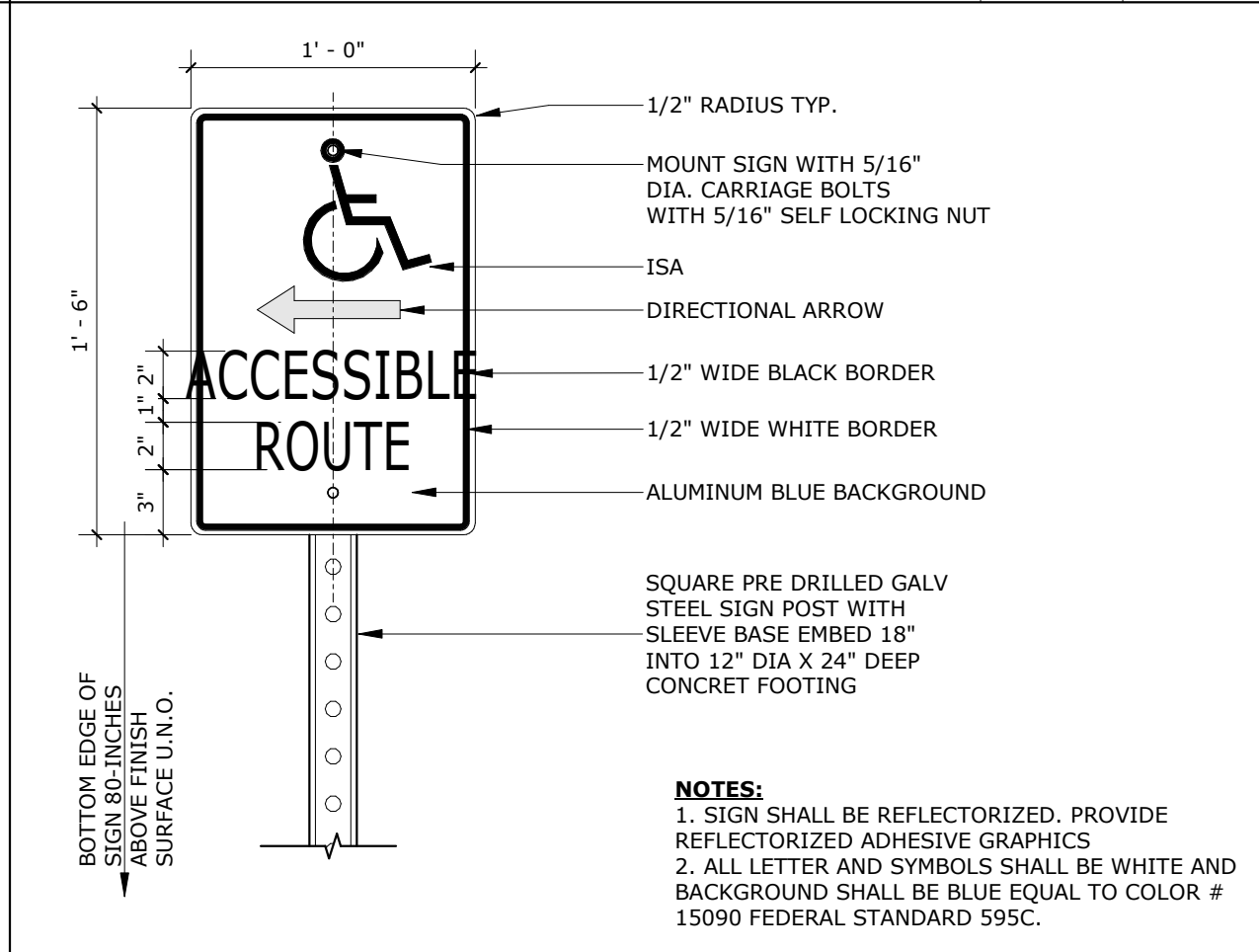
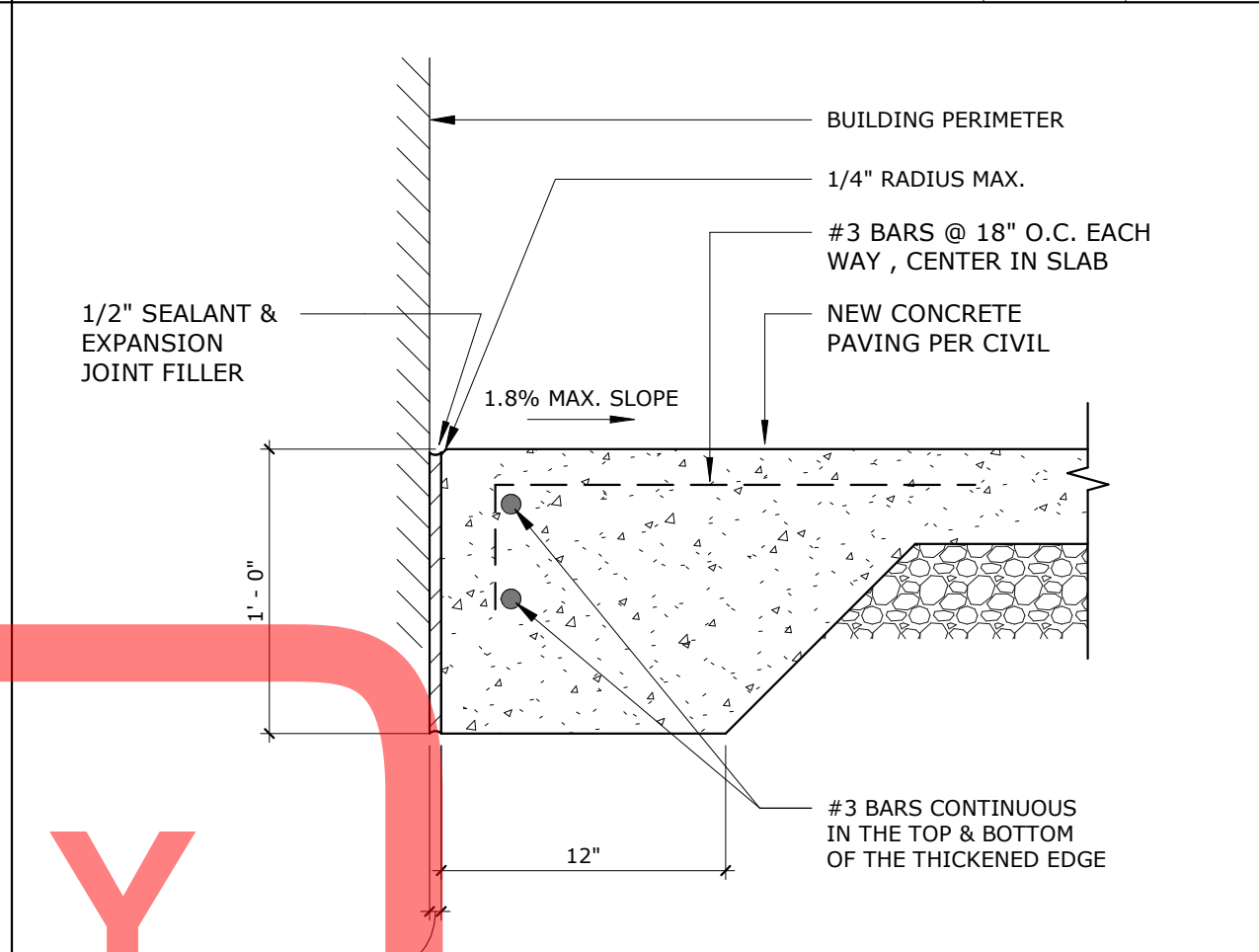
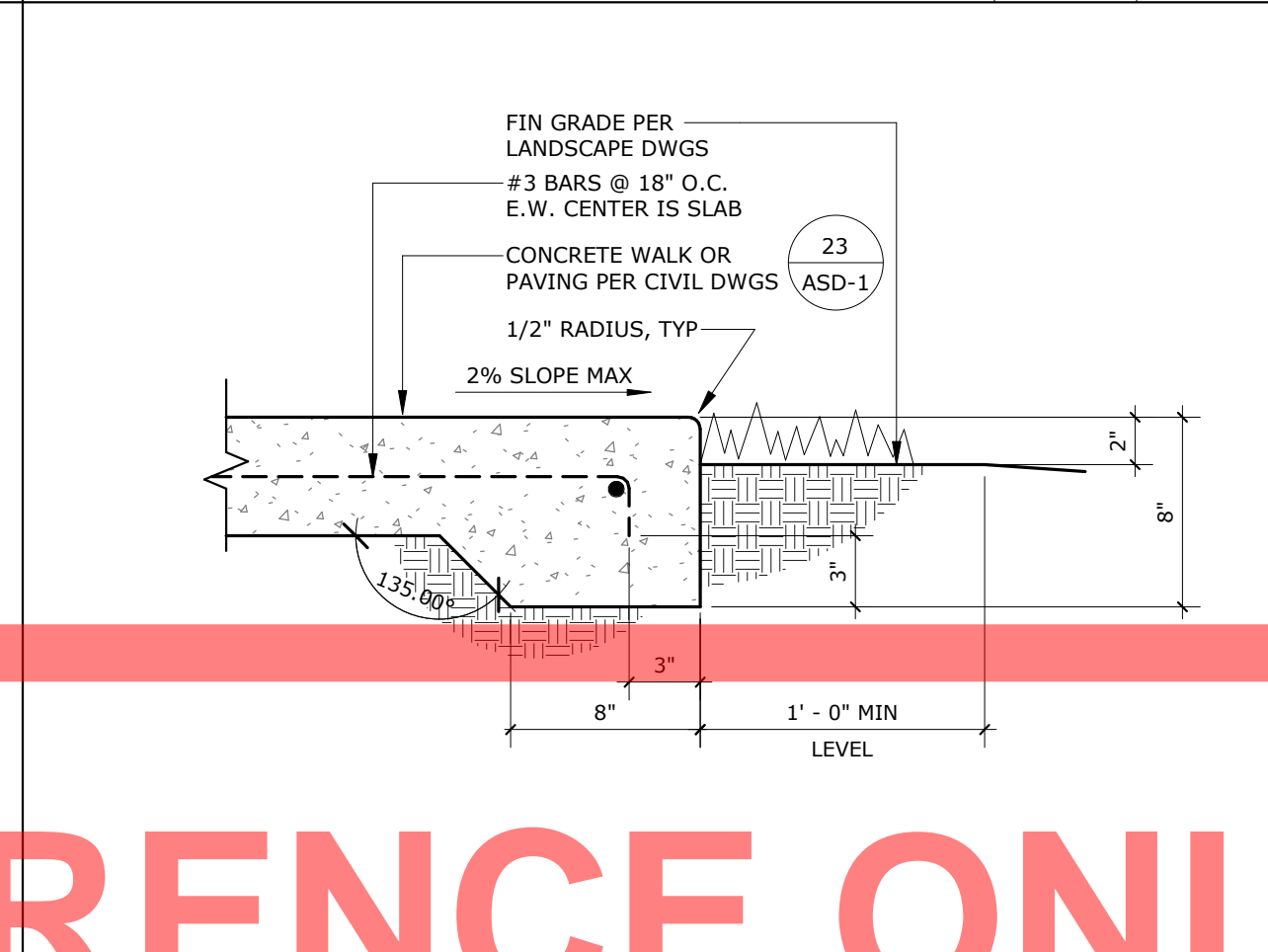
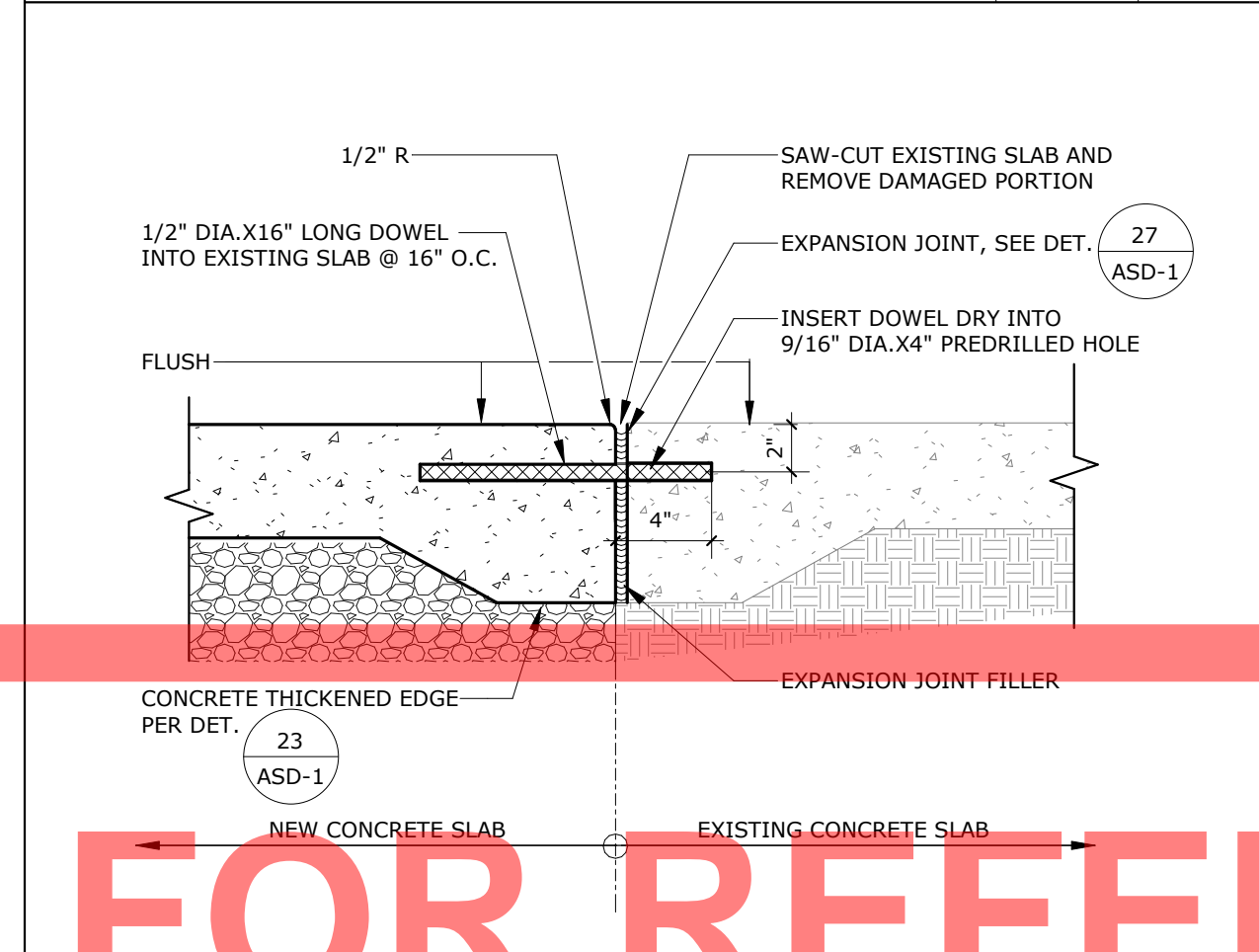
CONCRETE CURB TYP. SCALE: 1 1/2" = 1'-0" 24

CONC PAVING/CURB/ASPHALT SCALE: 1 1/2" = 1'-0" 19

DELIVERIES SIGN SCALE: 1 1/2" = 1'-0" 14

(E) ACCESS. PARKING SIGN SCALE: 1 1/2" = 1'-0" 9

(E) ISA PAVEMENT SIGN SCALE: 3/4" = 1'-0" 4



CONC. PAVING JOINING SCALE: 1 1/2" = 1'-0" 30

CONC. EDGE & LANDSCAPE SCALE: 1 1/2" = 1'-0" 25

CONC. PAVING EDGE @ BLDG SCALE: 1 1/2" = 1'-0" 20

DIRECTIONAL SIGN SCALE: 1 1/2" = 1'-0" 15

SIGN POST FOOTING @ CONC. SCALE: 1" = 1'-0" 10

TYPICAL PAVEMENT STRIPING SCALE: 3/4" = 1'-0" 5

PROJECT No. 11-104-01
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CONC. PAVING JOINING SCALE: 1 1/2" = 1'-0" 30

CONC. EDGE & LANDSCAPE SCALE: 1 1/2" = 1'-0" 25

DIRECTIONAL SIGN SCALE: 1 1/2" = 1'-0" 15

SIGN POST FOOTING @ CONC. SCALE: 1" = 1'-0" 10

TYPICAL PAVEMENT STRIPING SCALE: 3/4" = 1'-0" 5

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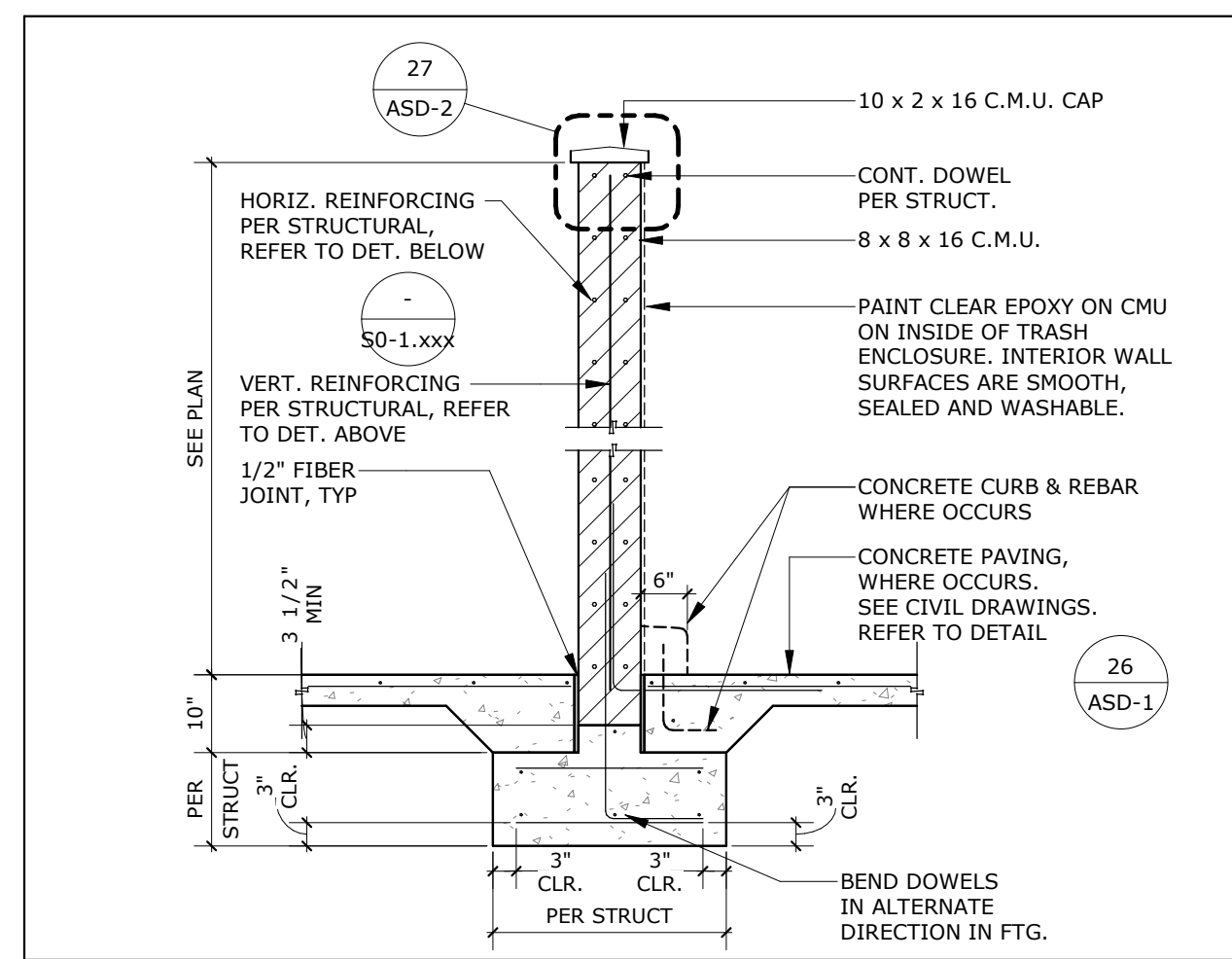
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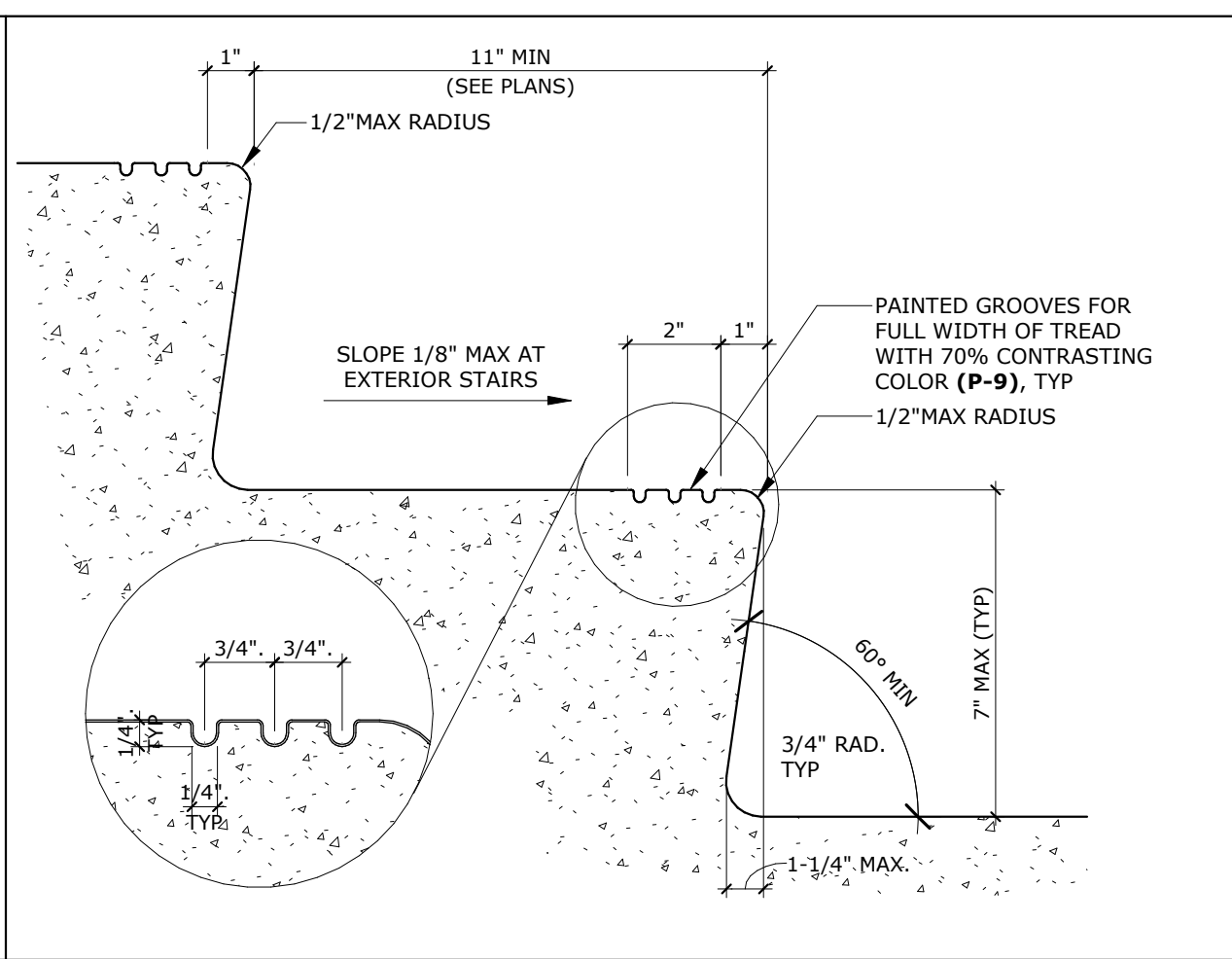
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KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

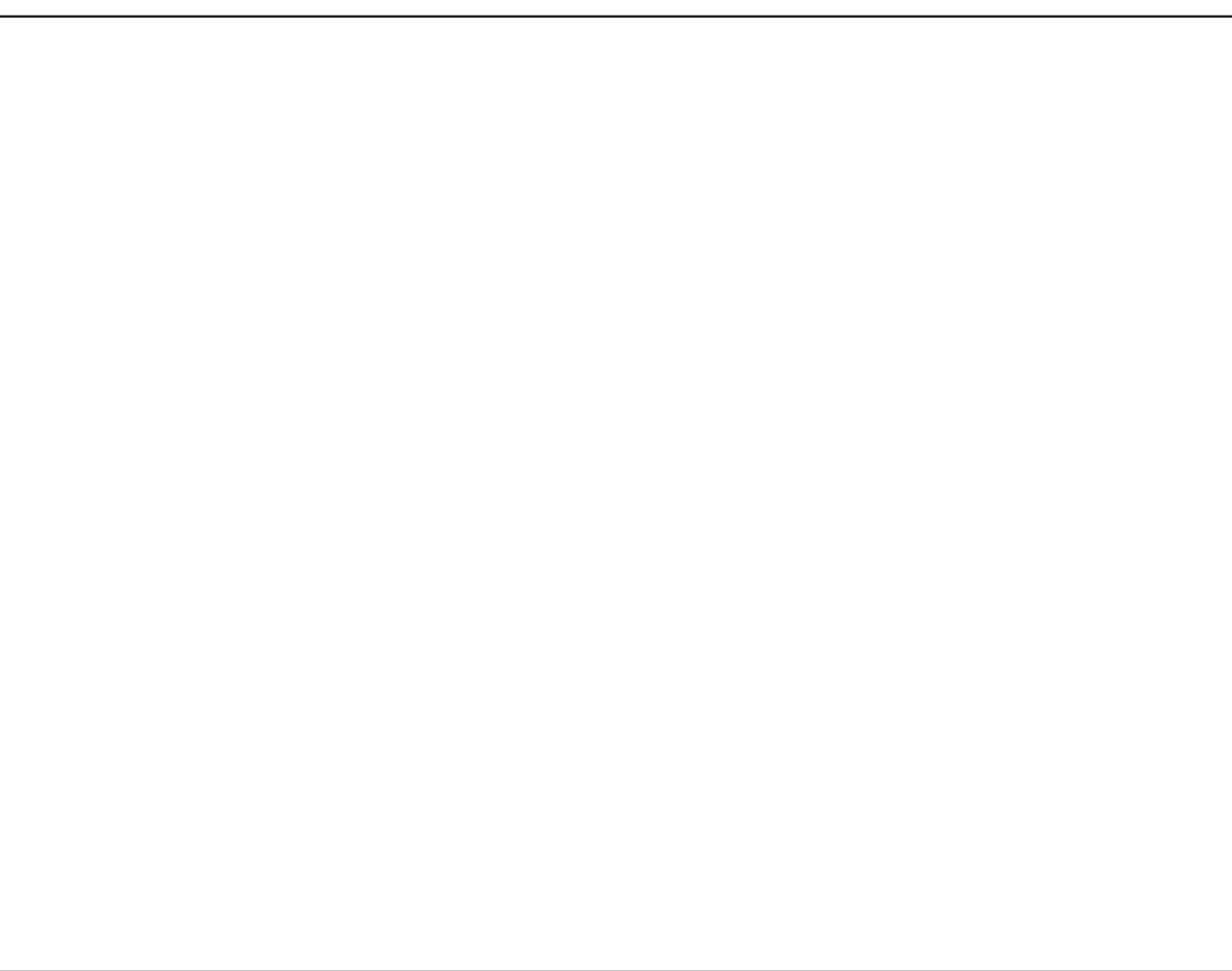
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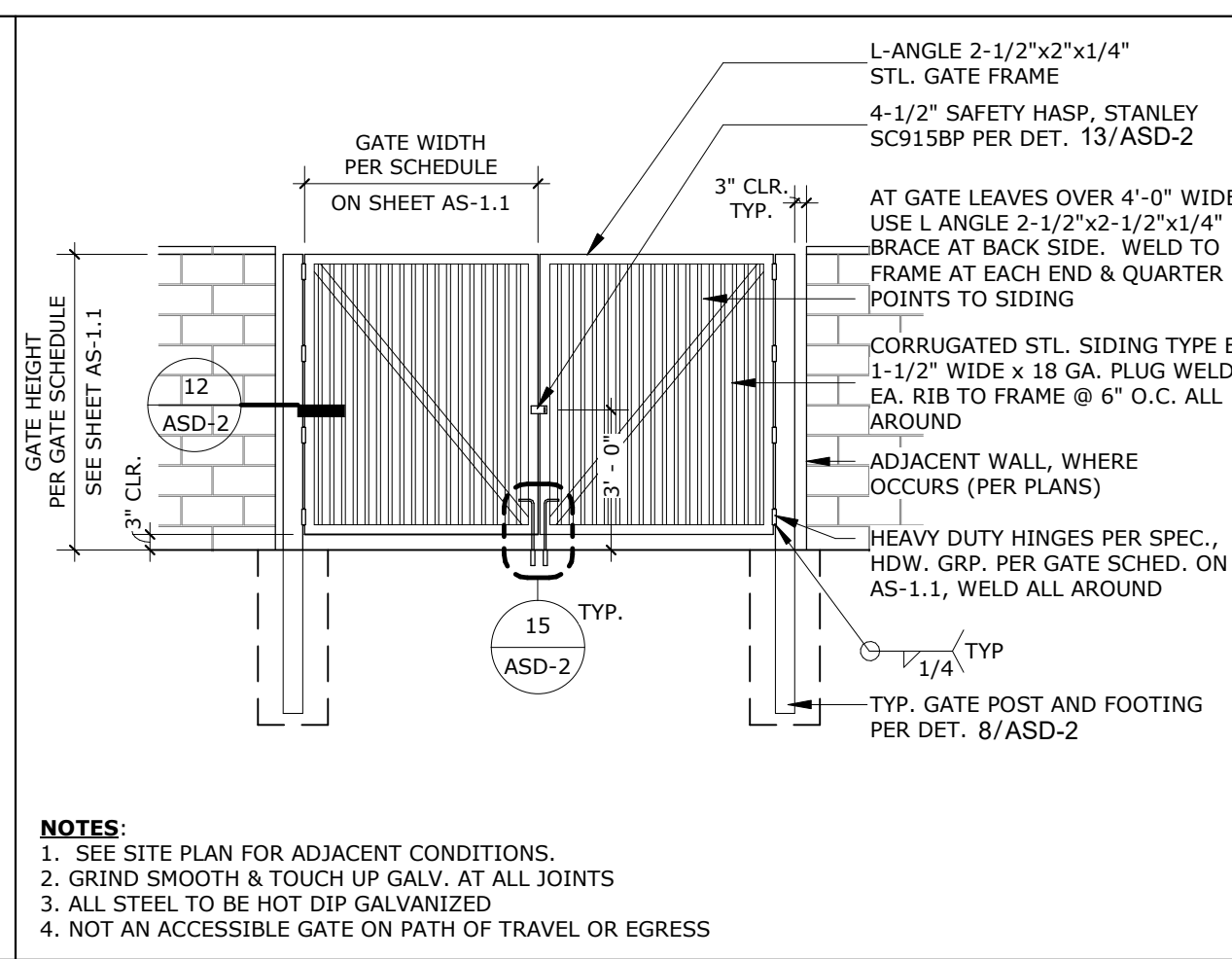
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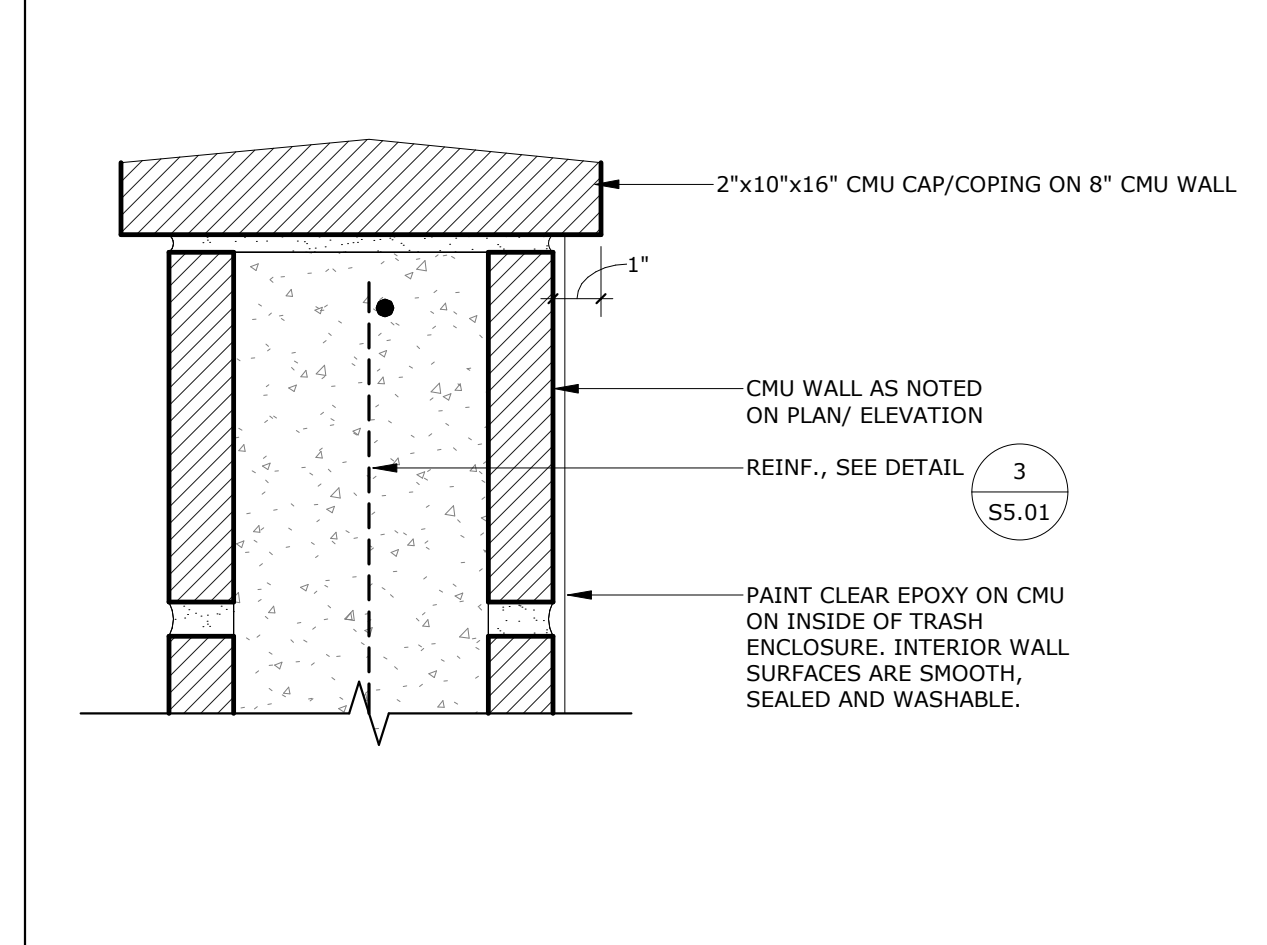


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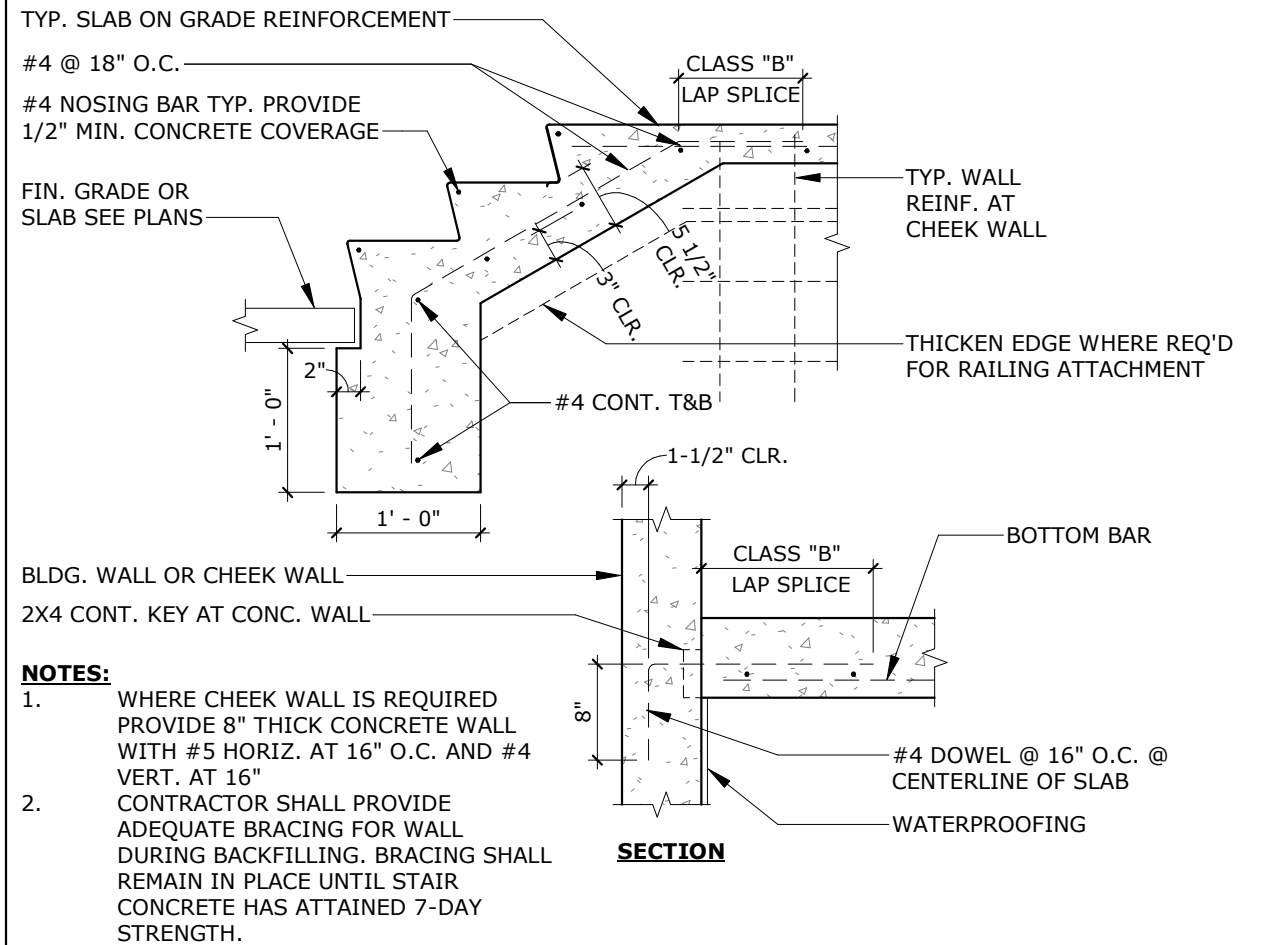


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AGENCY APPROVAL
 STAMPS
 CONSULTANT BRANDING
RUHNAU CLARKE ARCHITECTS



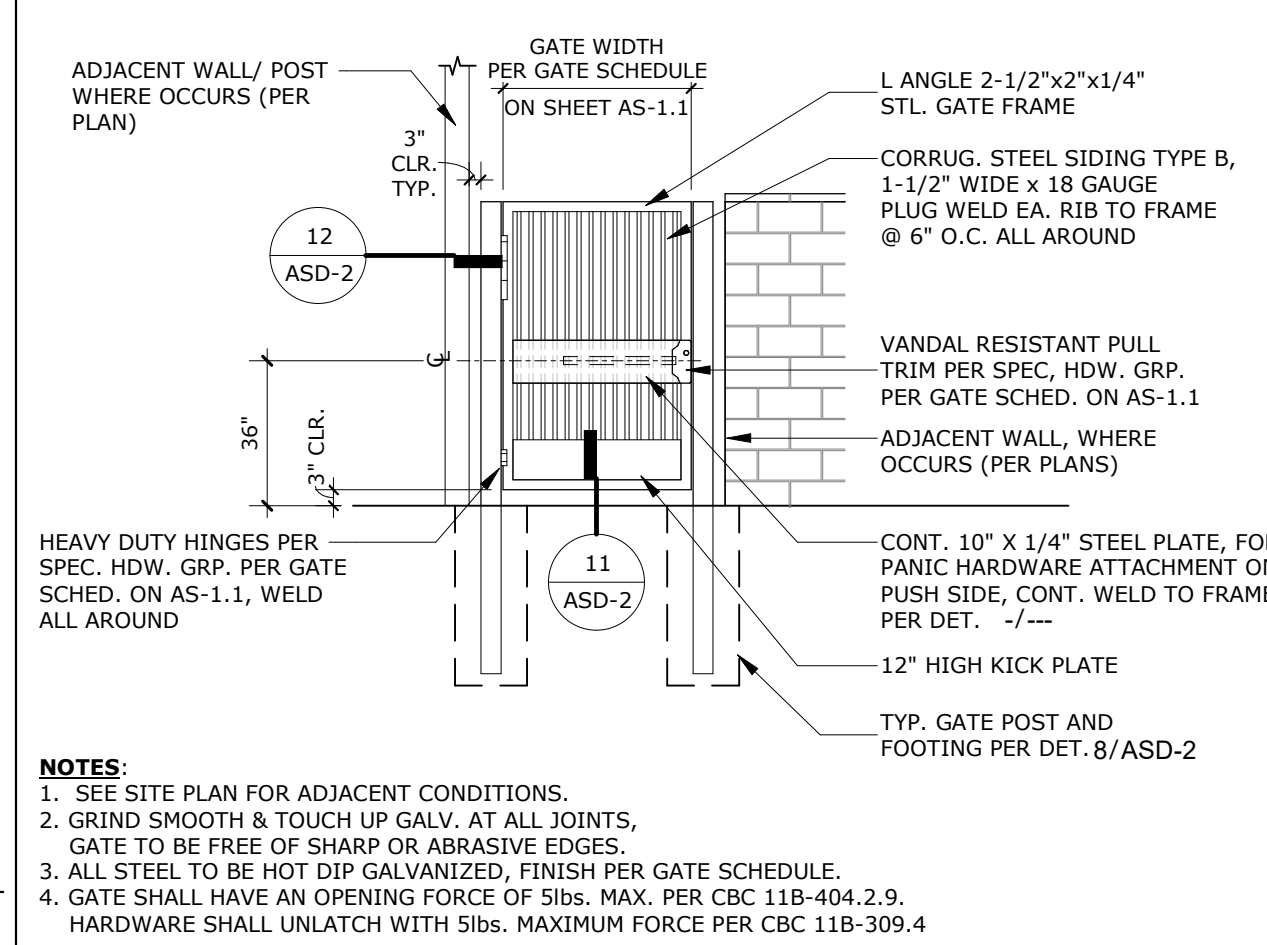
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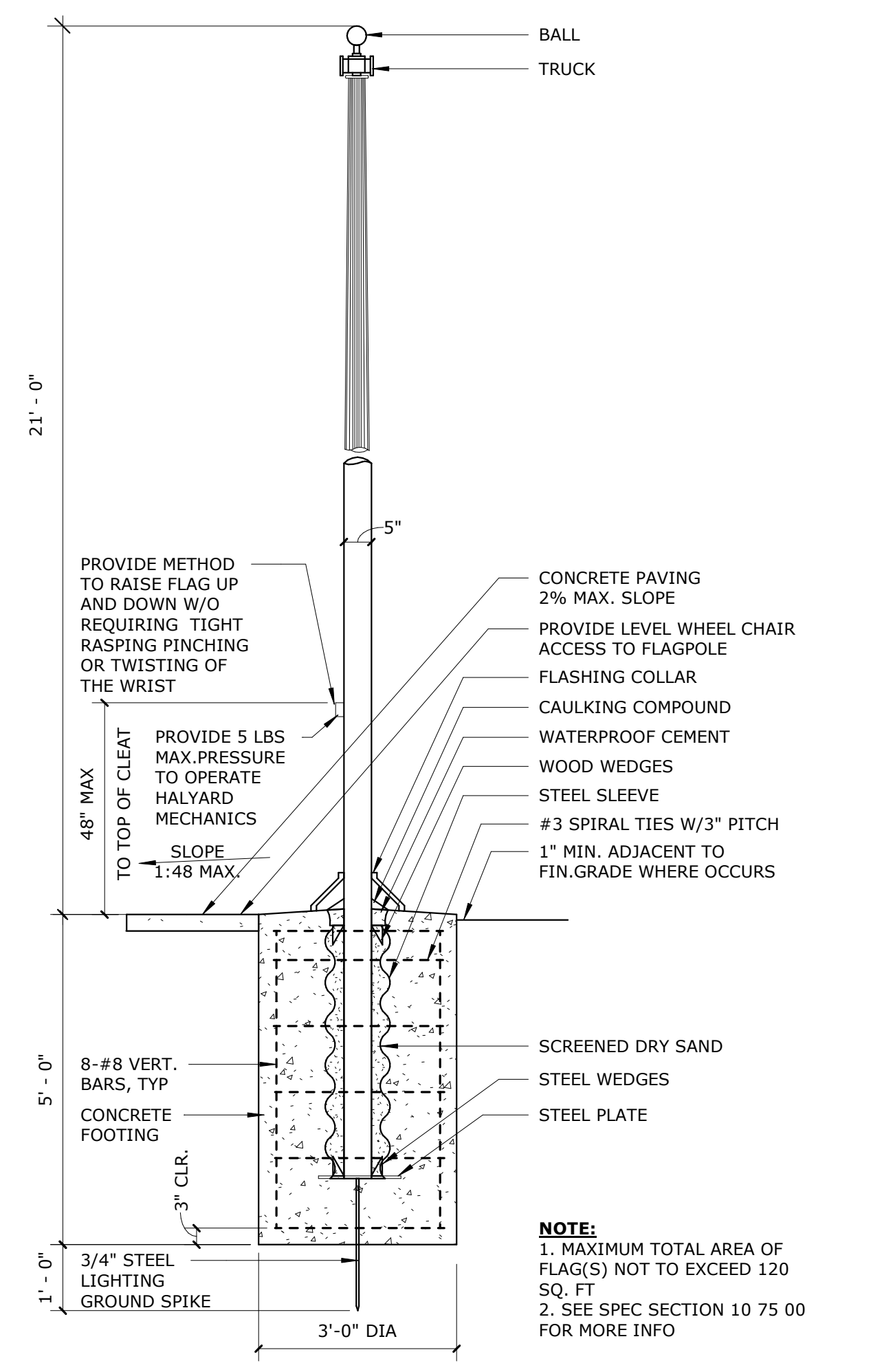
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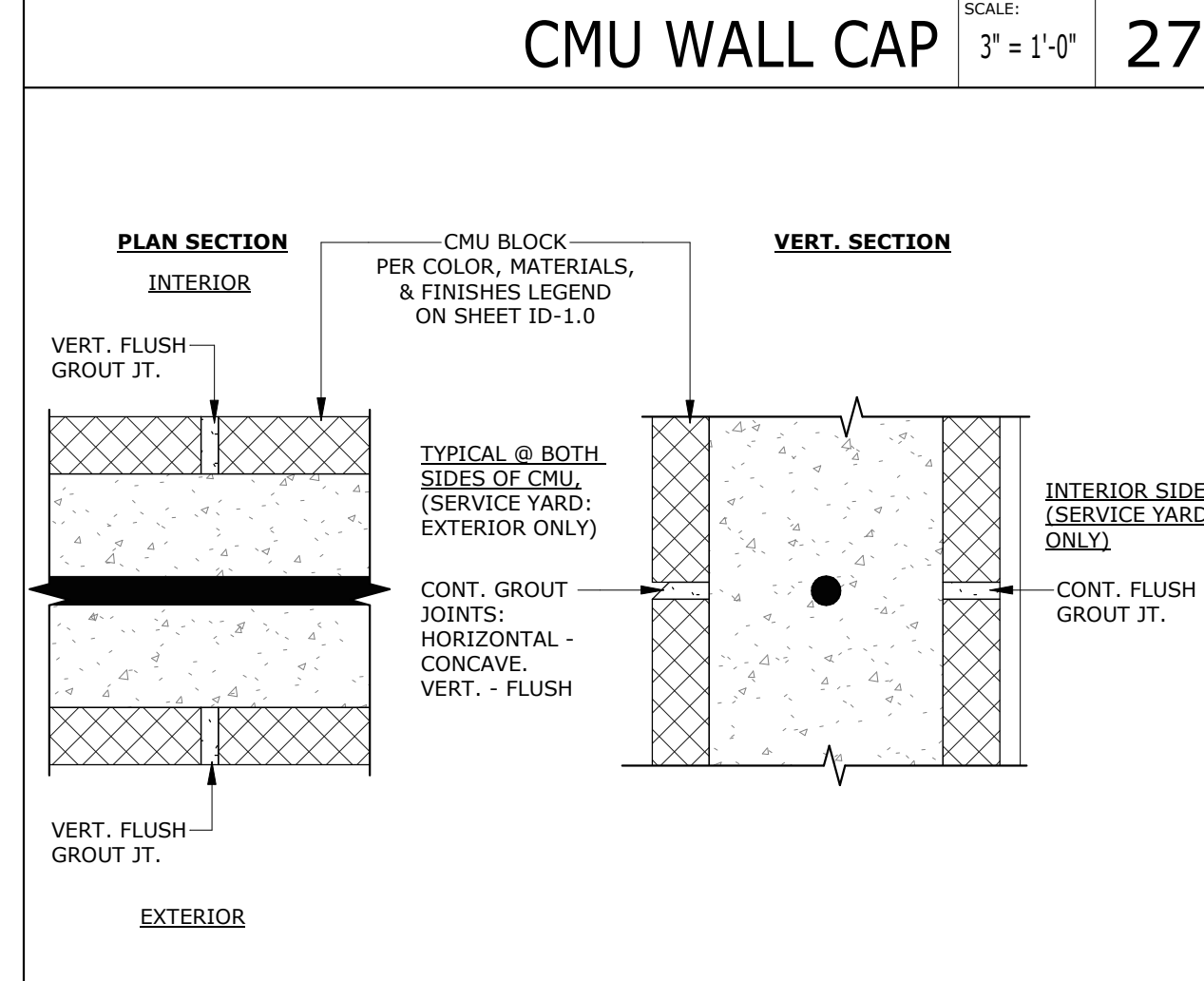
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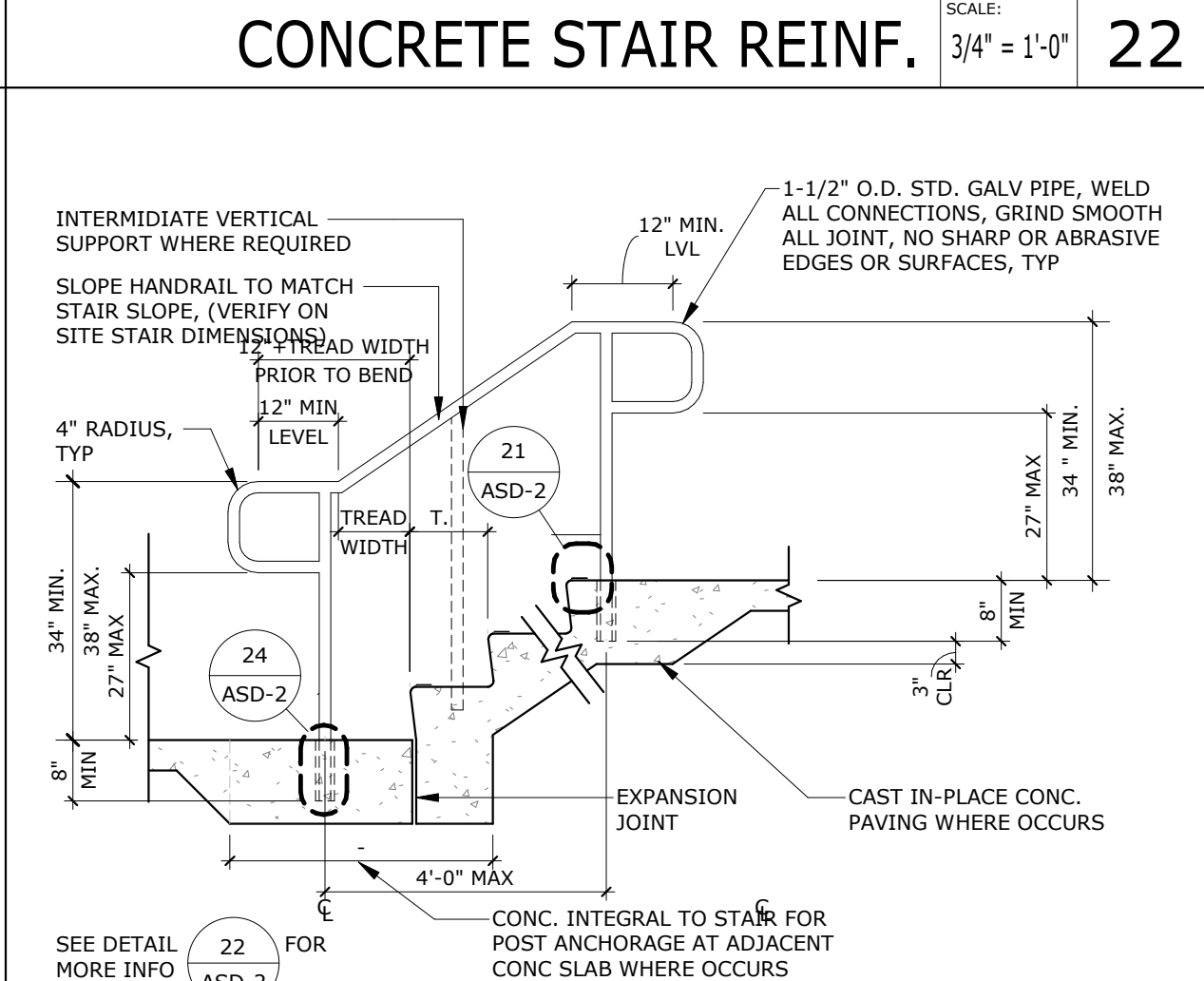
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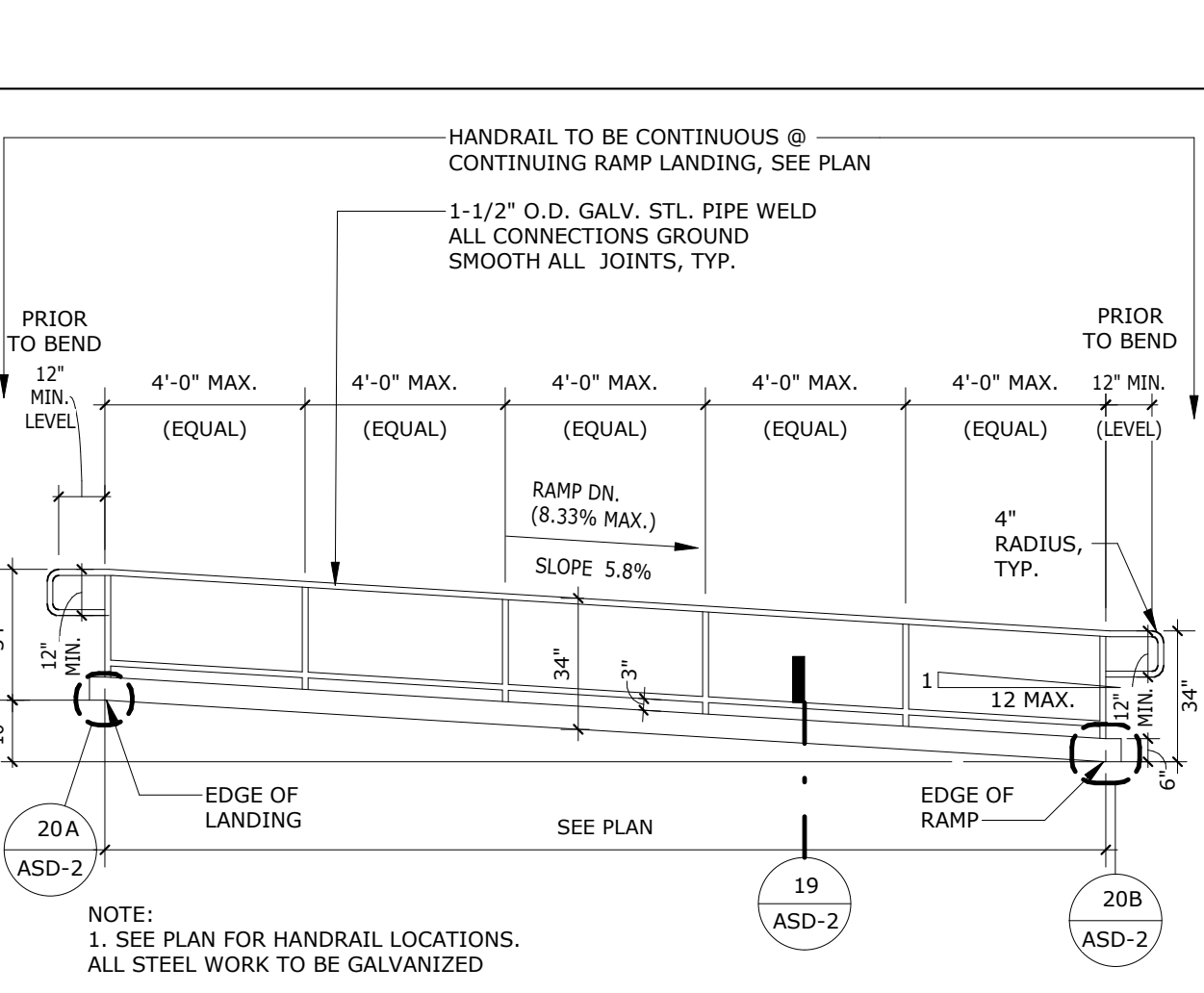
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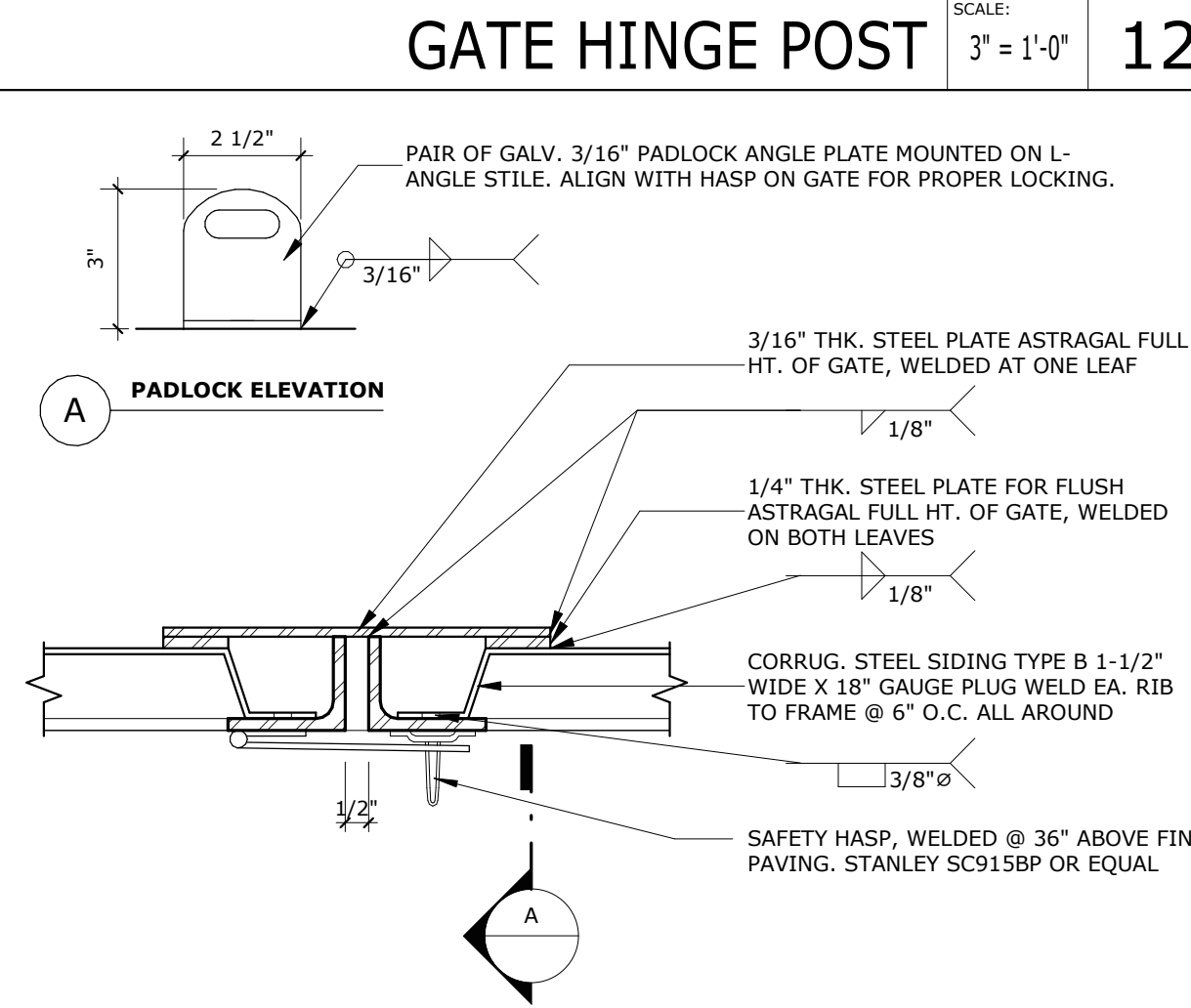
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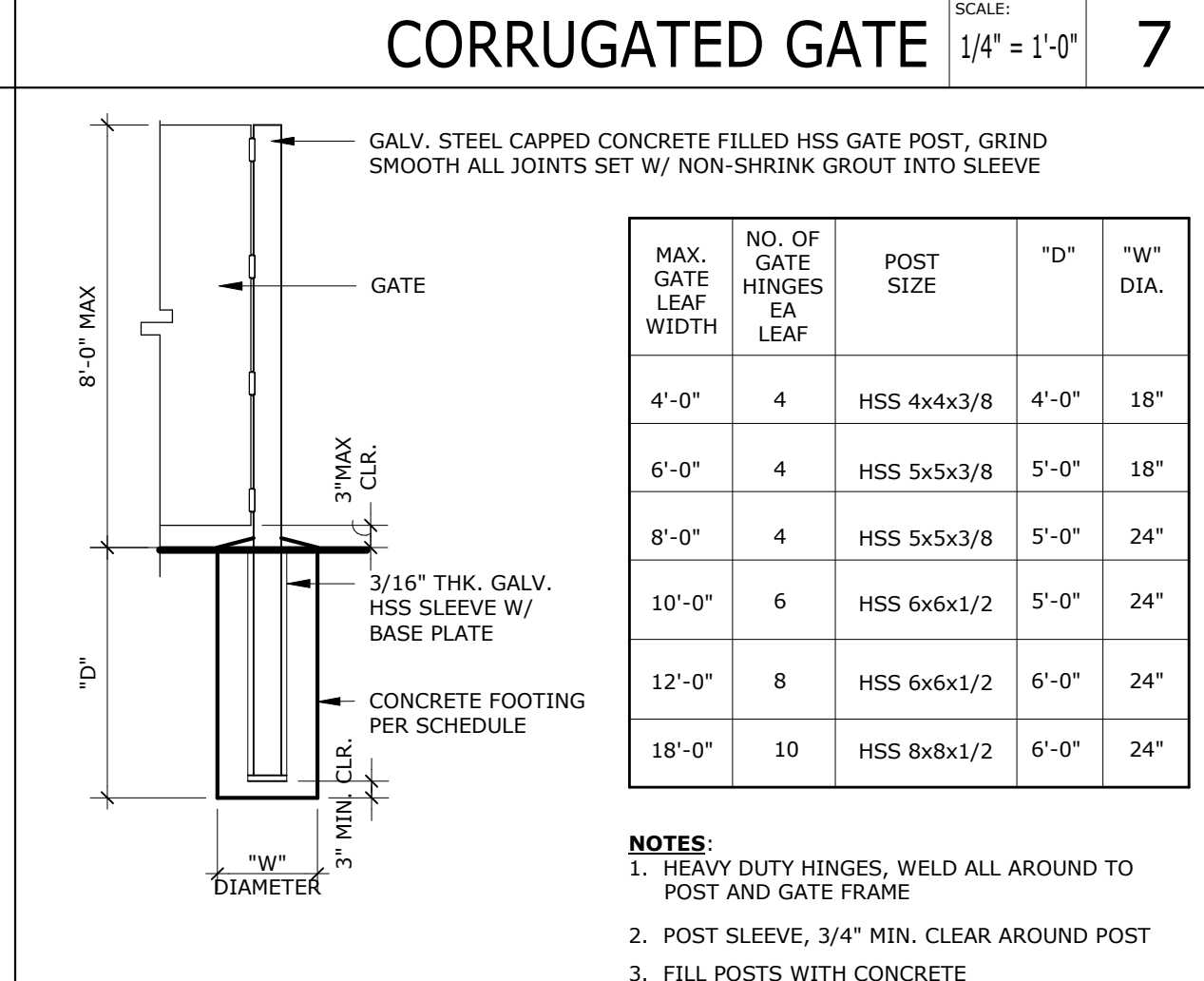
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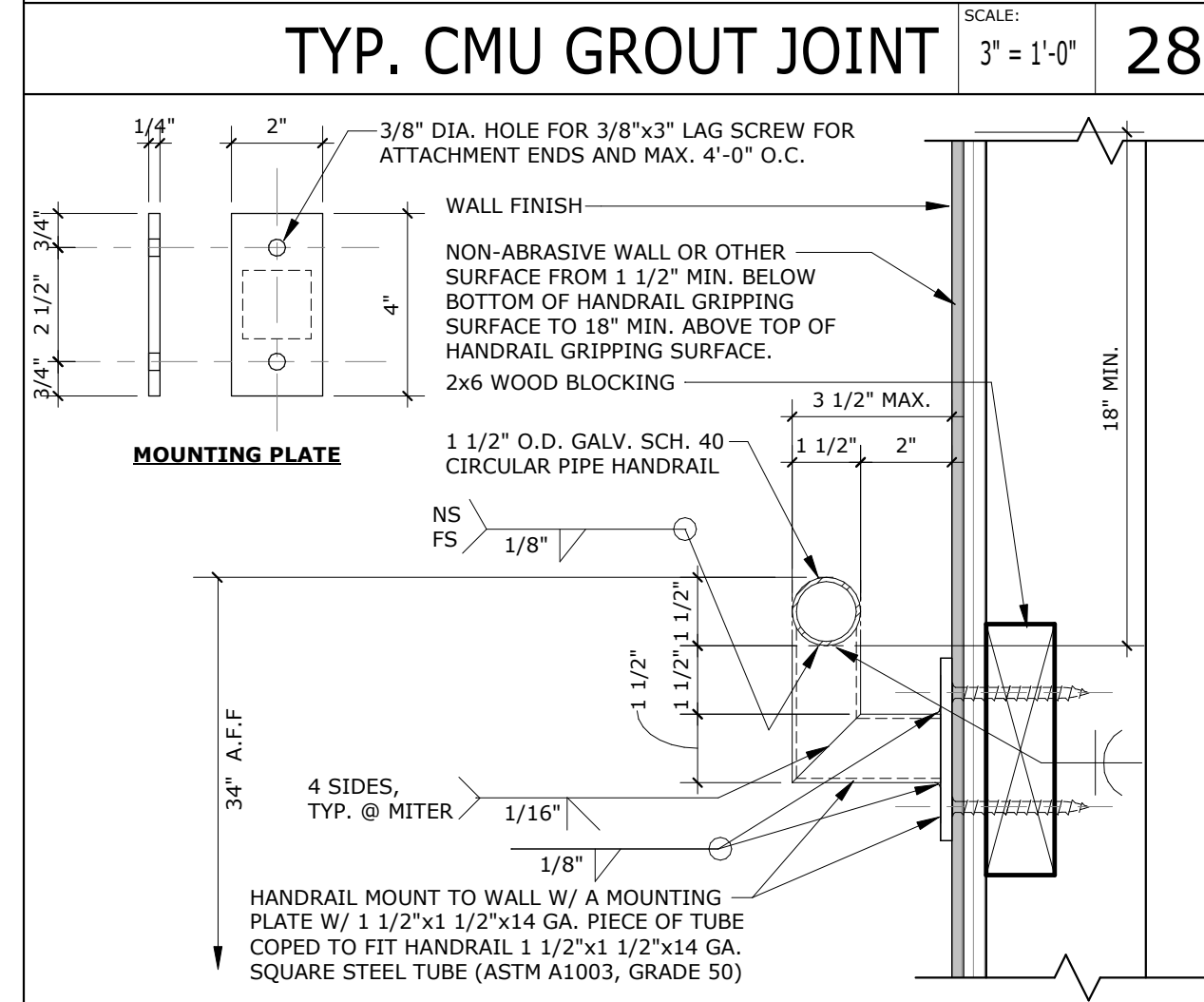
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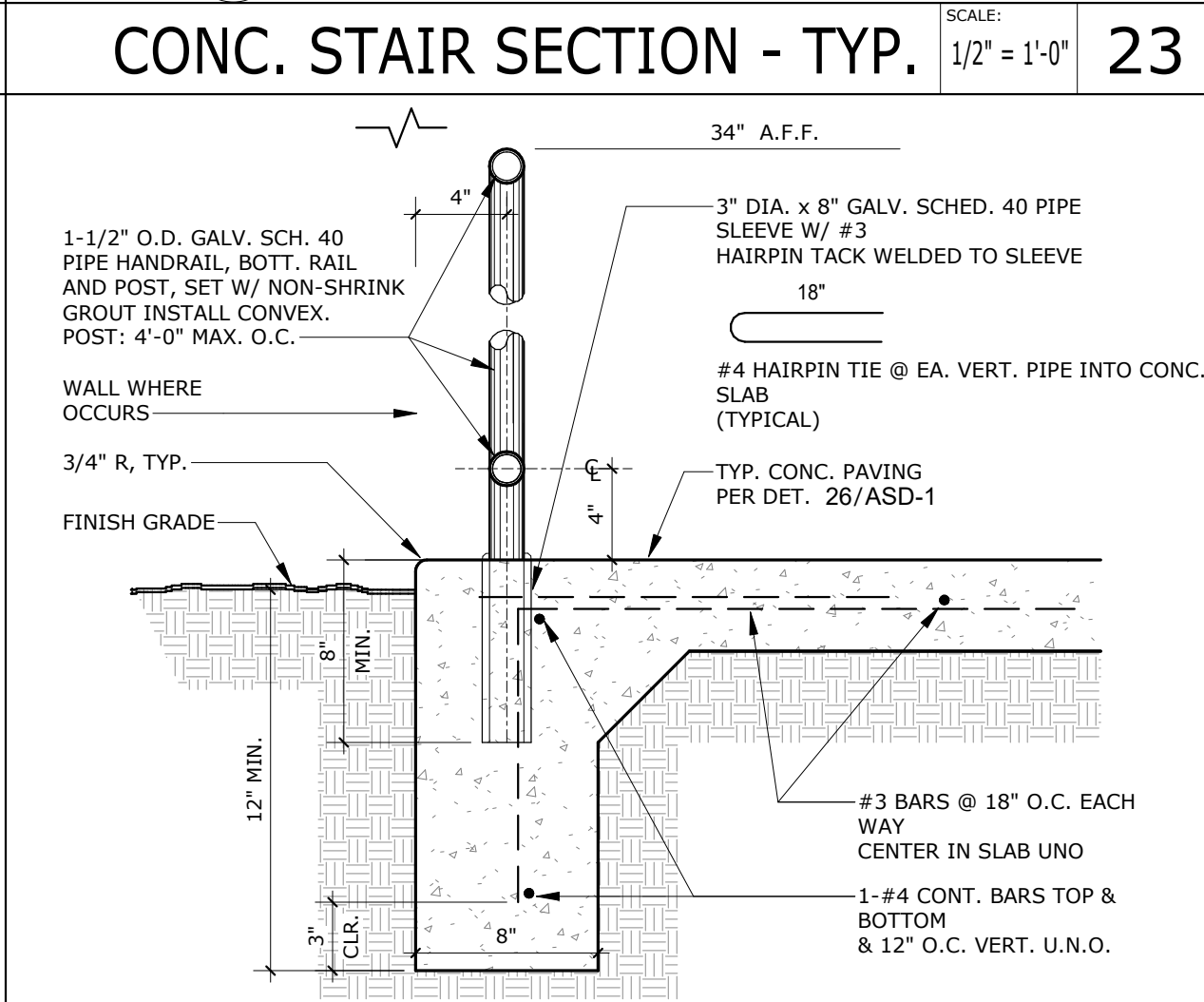
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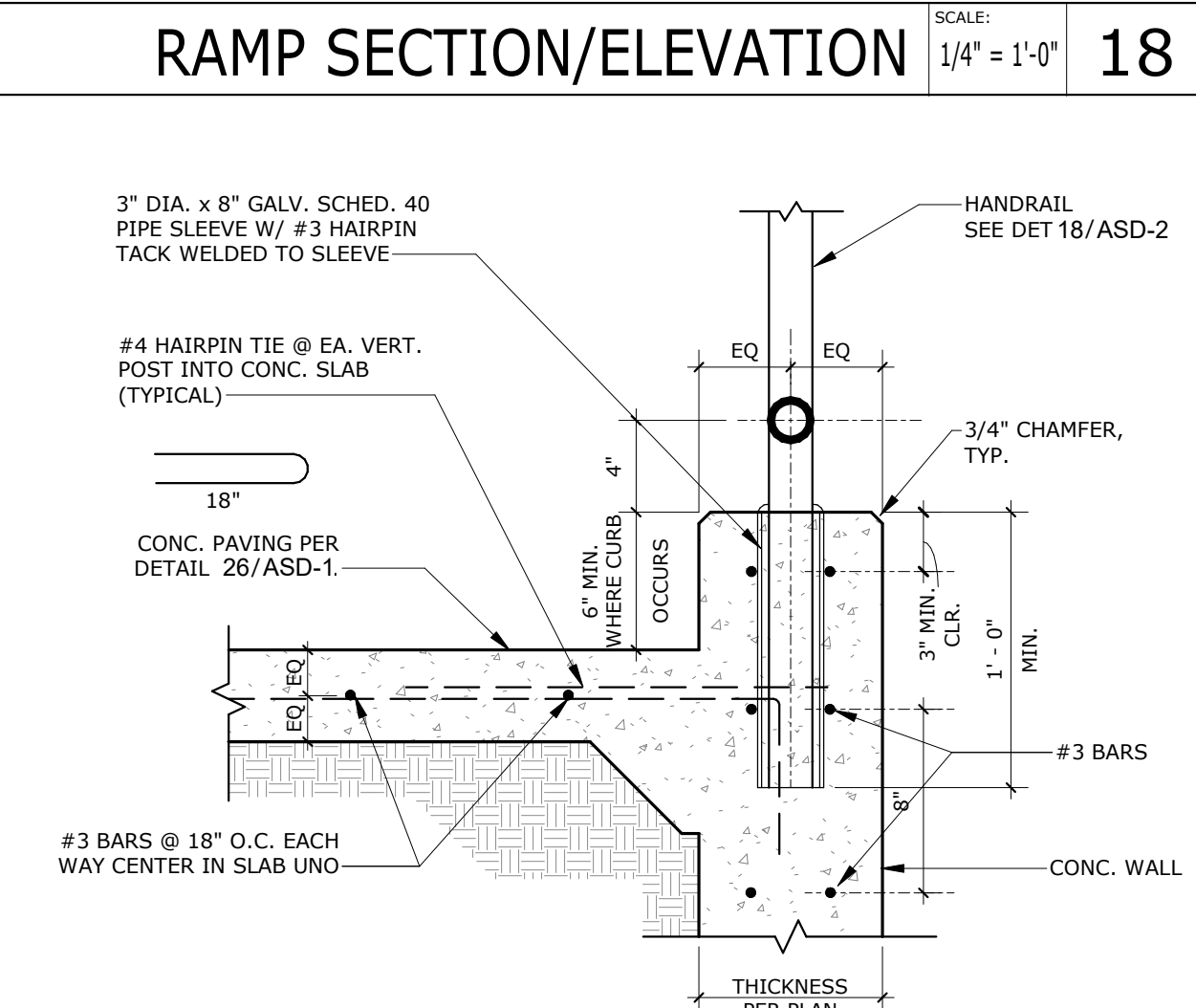
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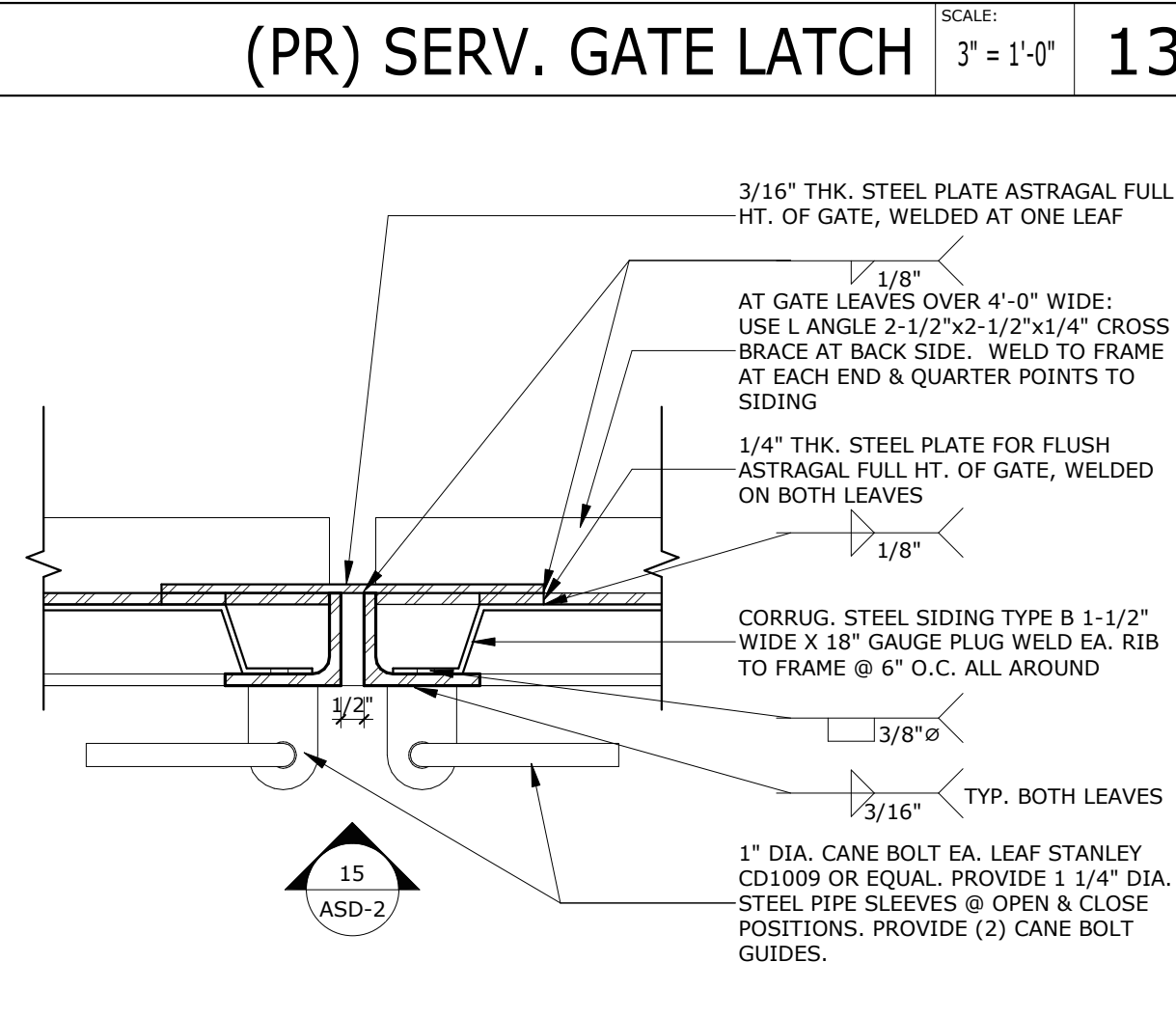
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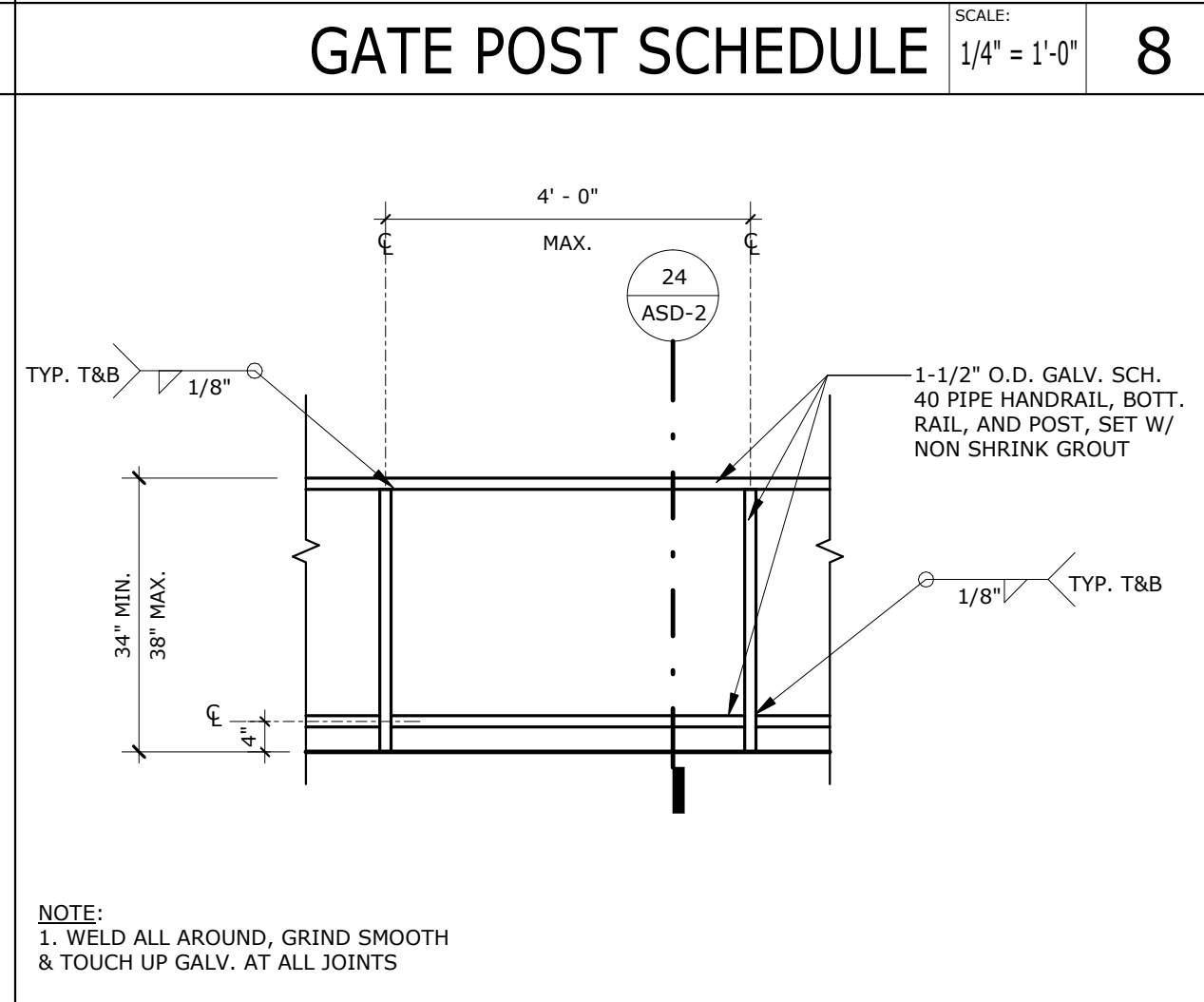
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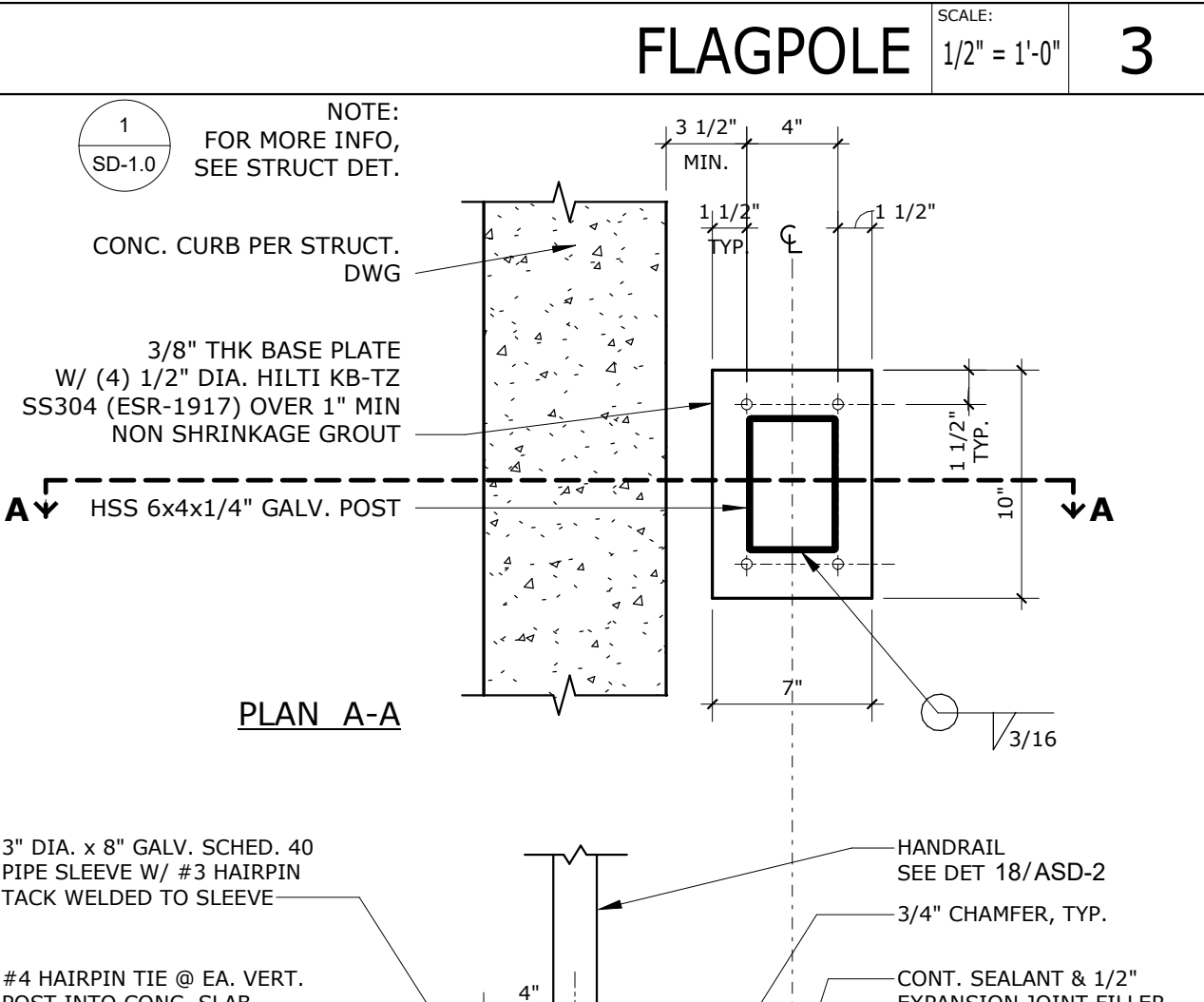
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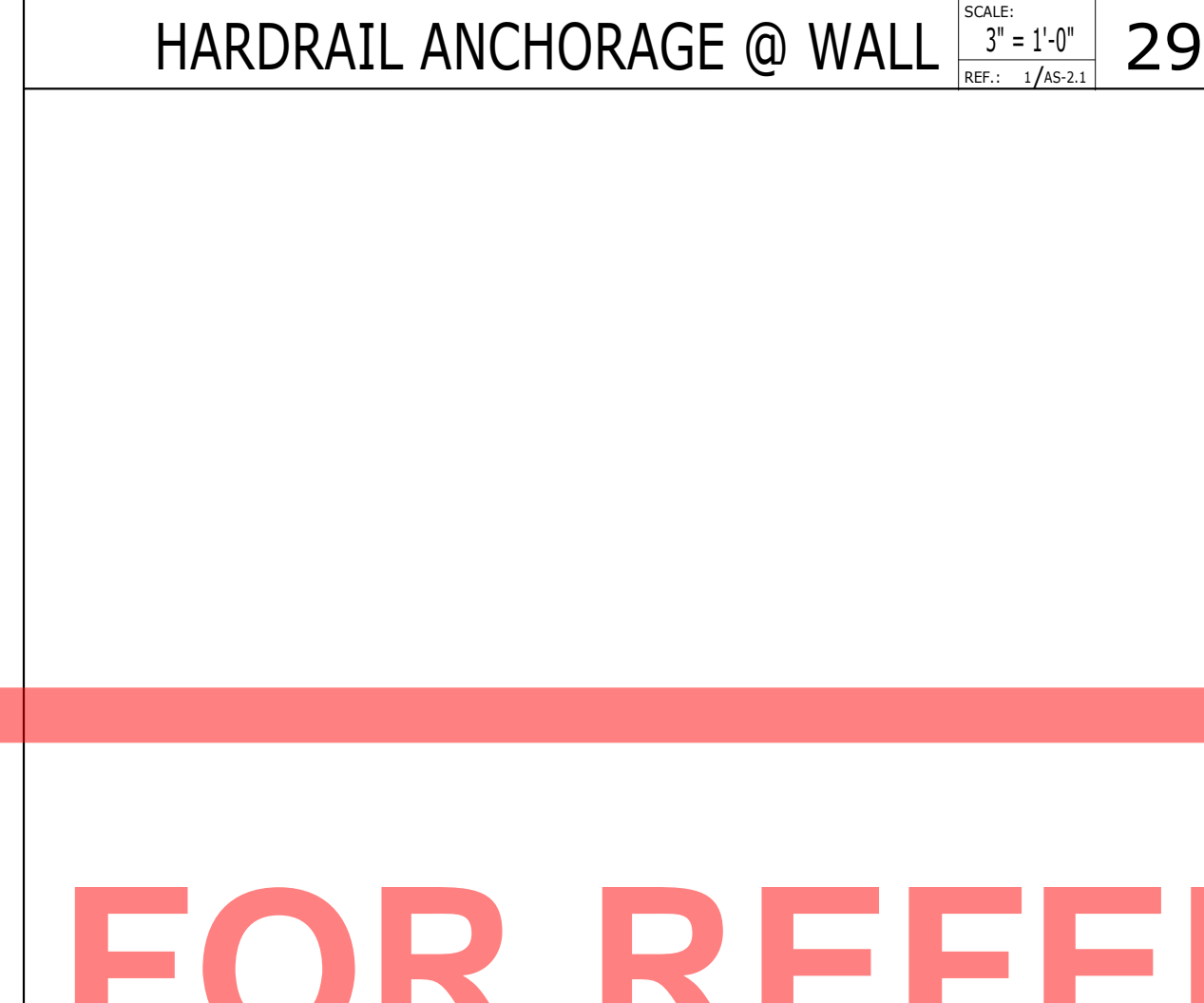
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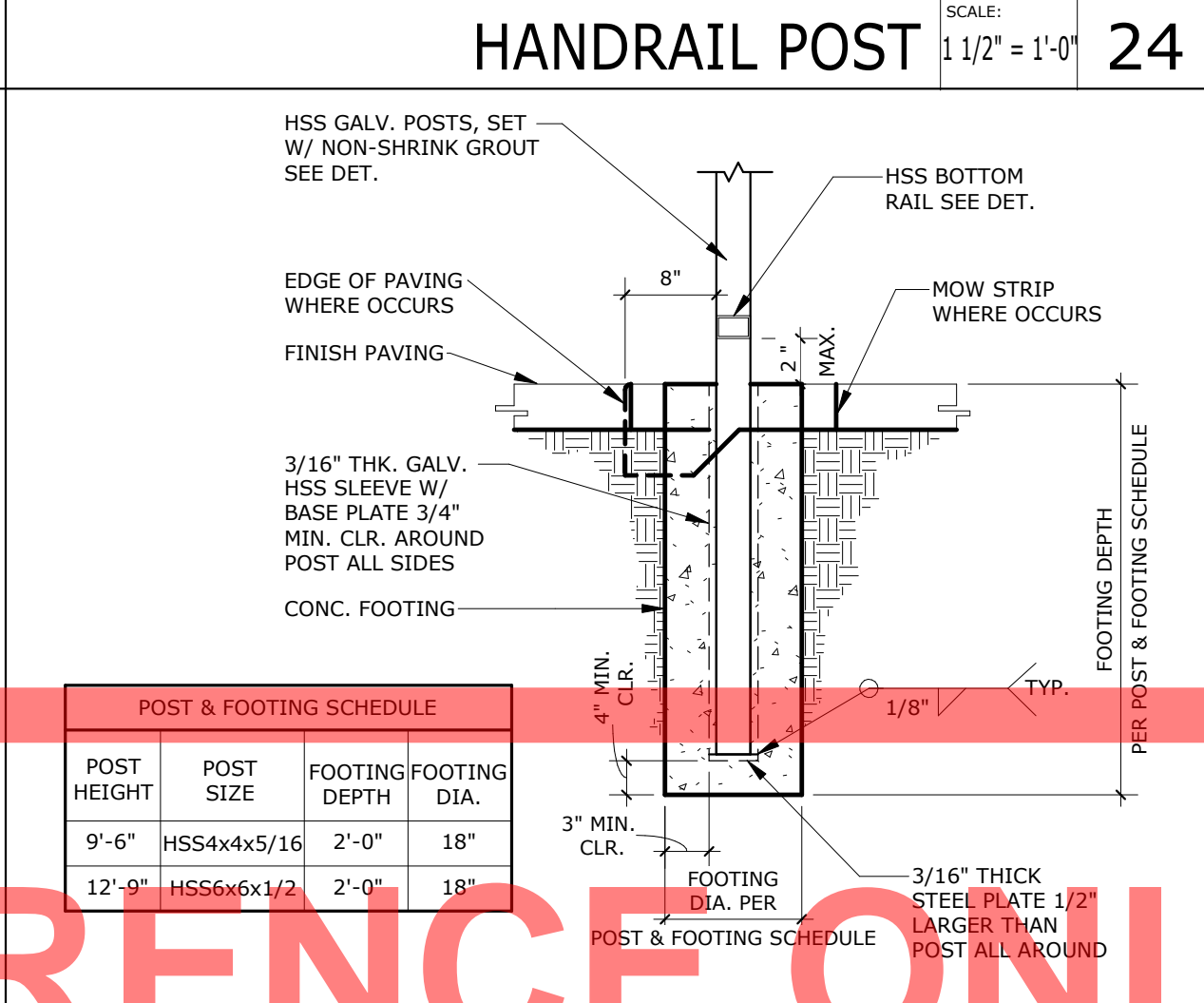
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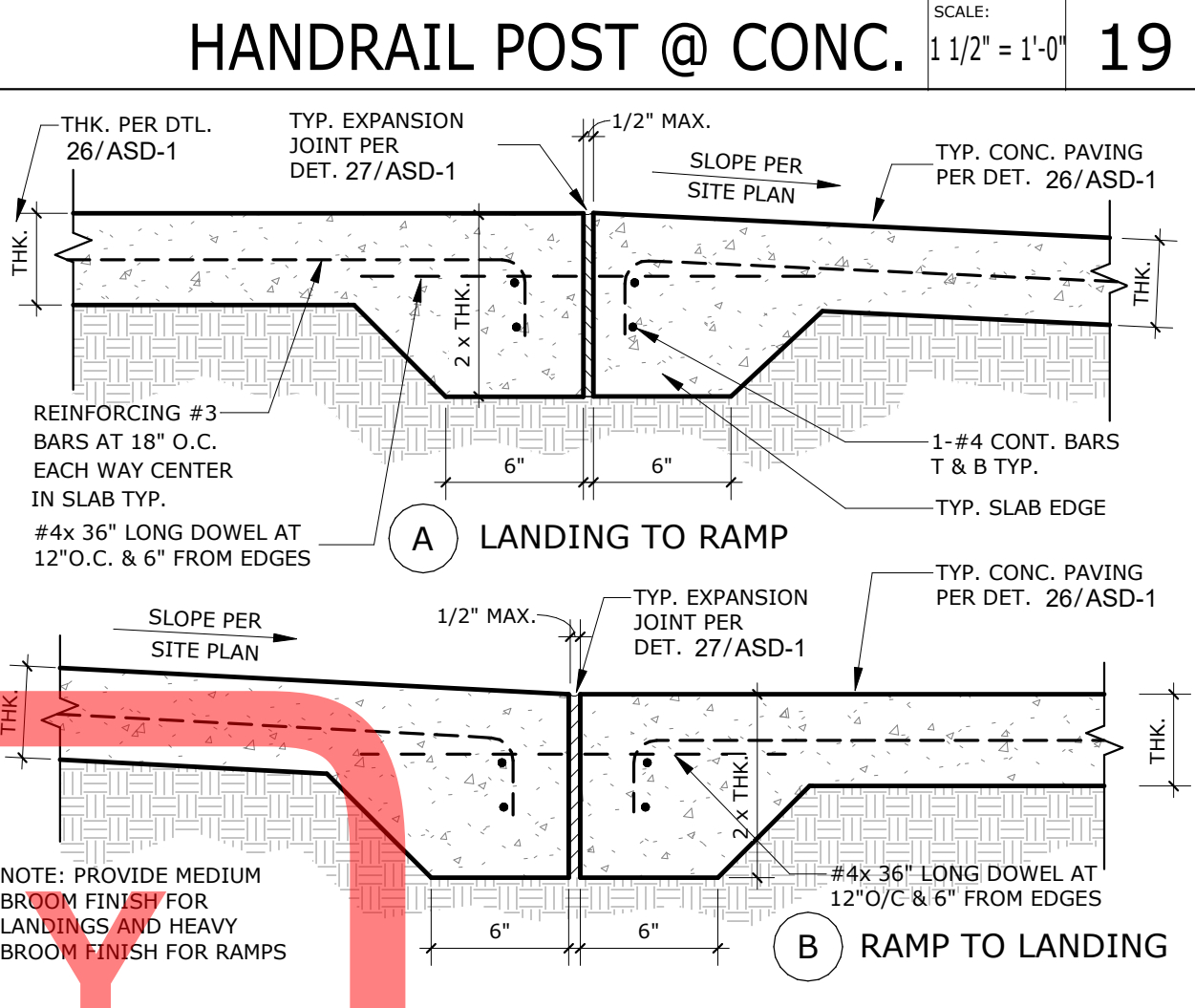
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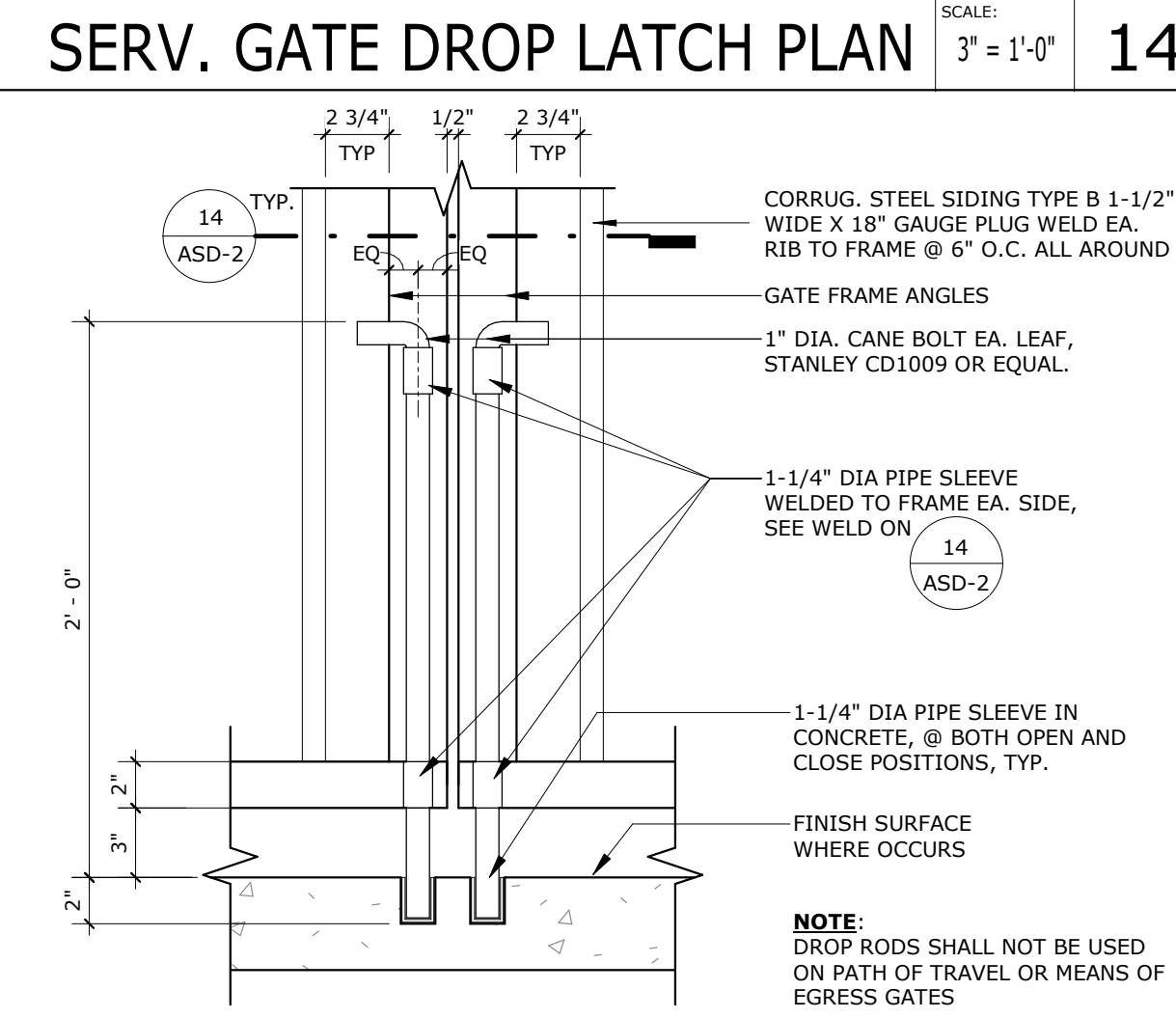
HARDRAIL ANCHORAGE @ WALL SCALE: 3\"/>



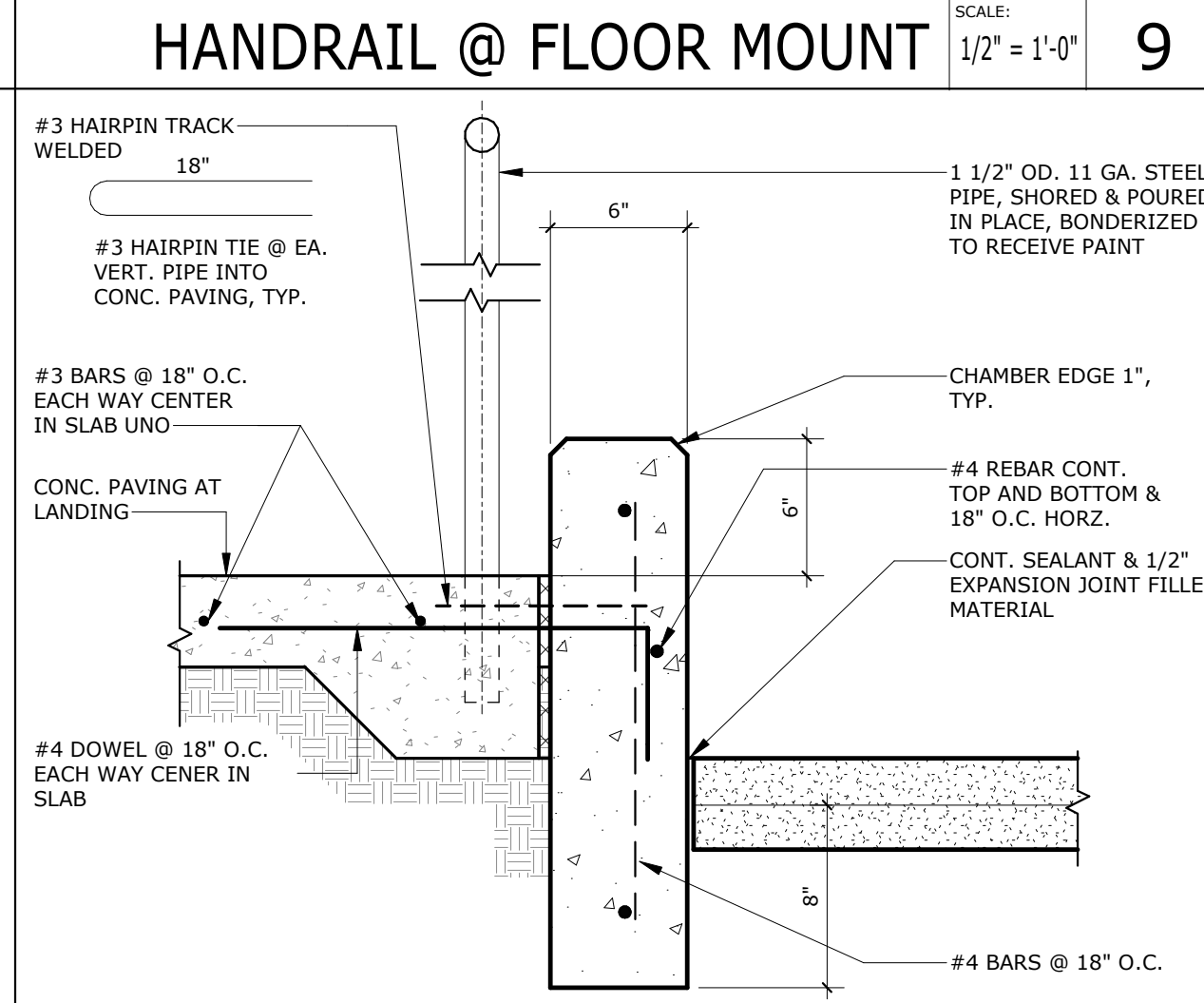
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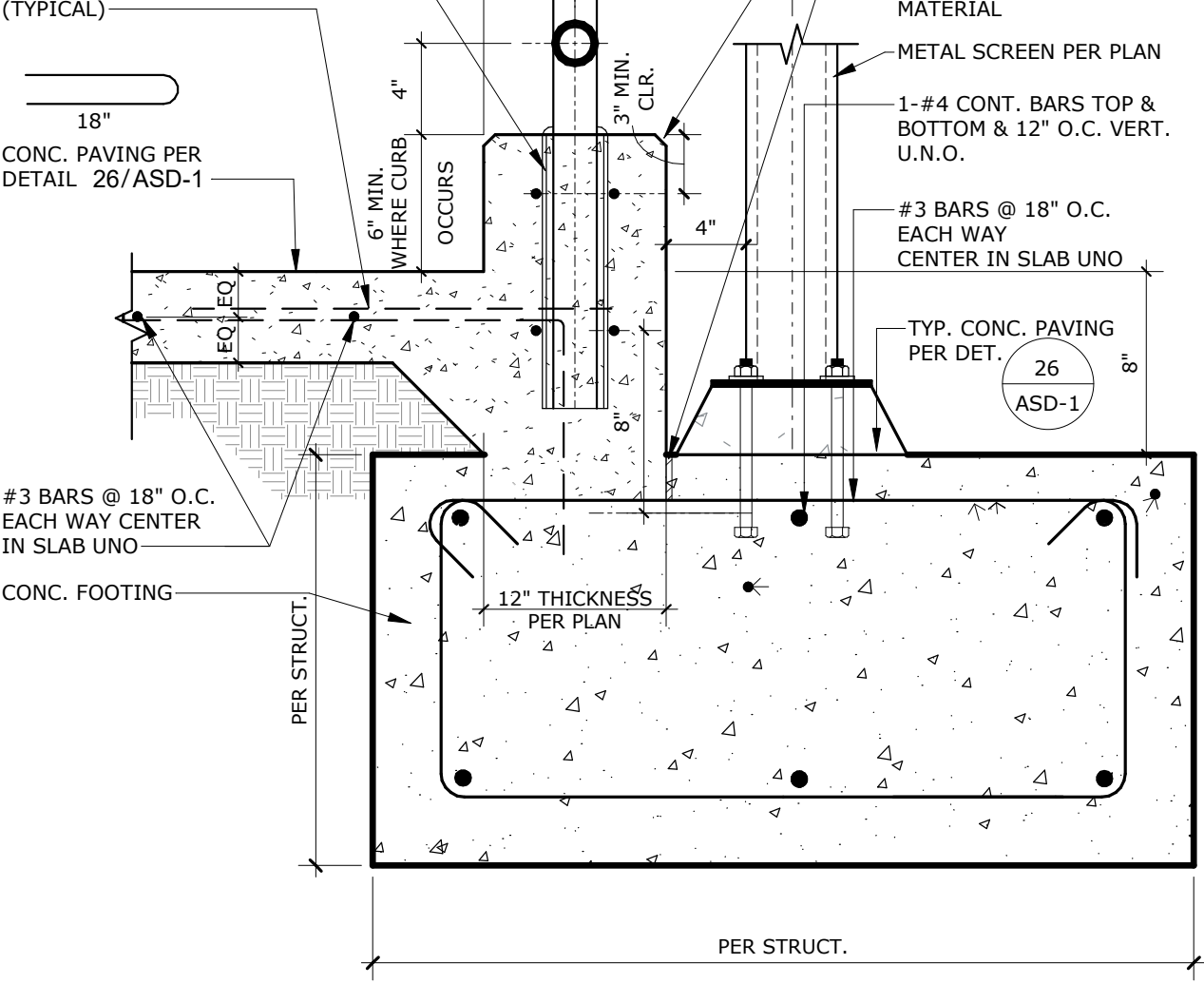
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SERV. GATE DROP LATCH ELEV SCALE: 1 1/2\"/>



CONC CURB W/ RAIL @ LANDING SCALE: 1 1/2\"/>



HANDRAIL POST @ METAL FENCE SCALE: 1 1/2\"/>



METAL FENCE POST FOOTING SCALE: 3/4\"/>



TYP. RAMP SLAB EDGE SCALE: 1 1/2\"/>



SERV. GATE DROP LATCH ELEV SCALE: 1 1/2\"/>



CONC CURB W/ RAIL @ LANDING SCALE: 1 1/2\"/>



HANDRAIL POST @ METAL FENCE SCALE: 1 1/2\"/>

PROJECT No. 11-104-01
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DATE	BY	CHECKED BY
DELTA #	DATE	ADD
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POST & FOOTING SCHEDULE

POST HEIGHT	POST SIZE	FOOTING DEPTH	FOOTING DIA.
9'-6"	HSS4x4x5/16	2'-0"	18"
12'-0"	HSS6x6x3/4	2'-0"	18"



TYP. RAMP SLAB EDGE SCALE: 1 1/2\"/>



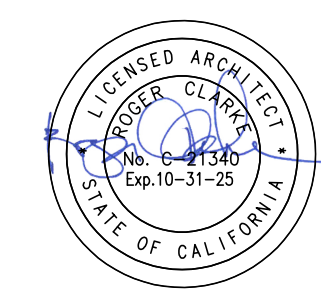
SERV. GATE DROP LATCH ELEV SCALE: 1 1/2\"/>



CONC CURB W/ RAIL @ LANDING SCALE: 1 1/2\"/>



HANDRAIL POST @ METAL FENCE SCALE: 1 1/2\"/>



AGENCY APPROVAL
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**RUHNAU
 CLARKE**
 ARCHITECTS

STAMPS

CONSULTANT BRANDING

GENERAL NOTES

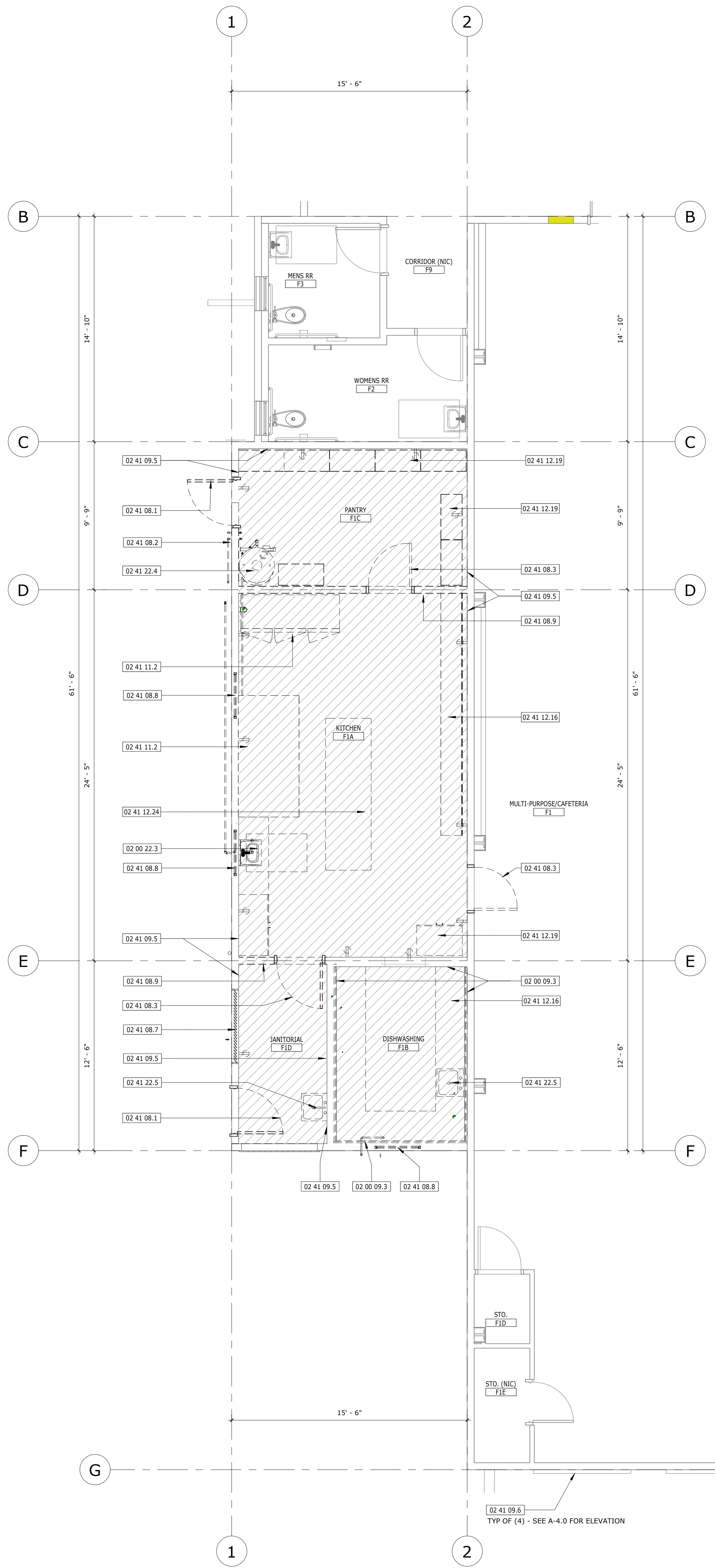
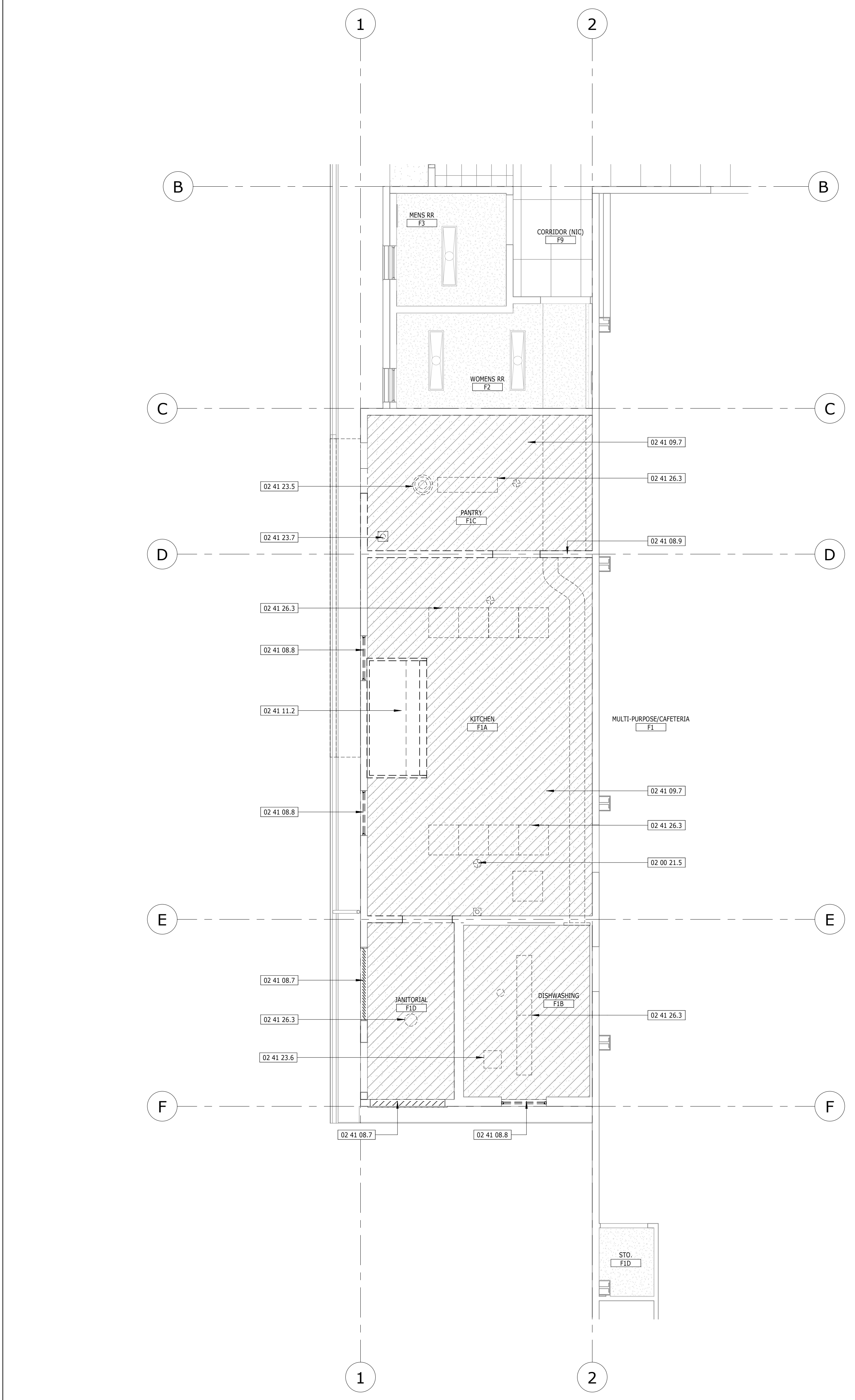
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF SITE AND IT IS THEIR SOLE RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION BASED UPON THE PROPOSED NEW WORK.
- PATCH AND REPAIR ANY PAVING DAMAGE CAUSED BY DEMOLITION BEYOND EXTENTS SPECIFIED. REPAIR TO MATCH EXISTING.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CBC 2022 CHAPTER 33.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRUCTURES THAT ARE TO BE DEMOLISHED (ABOVE AND BELOW GROUND). ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND BE REMOVED AS REQUIRED BY STATE AND LOCAL LAWS.
- REFER TO SPECIFICATIONS FOR CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. CUT & CAP (E) UTILITIES AS REQUIRED.
- ALSO REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, FOOD SERVICE DRAWINGS FOR DEMO WORK.
- NO DEMOLITION WORK SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY THE DIVISION OF STATE ARCHITECT (DSA).
- LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED, SEE SECTION 20.41.00 FOR MORE INFORMATION.
NOTE: SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.

KEYNOTES

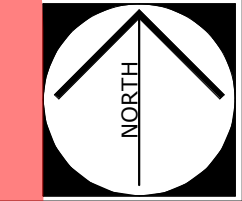
- 02 00 09.3 (E) PLASTER FINISH TO REMAIN, PROTECT IN PLACE, PATCH, REPAIR AND MATCH TO EXISTING CONDITIONS
- 02 00 21.5 (E) SMOKE STROBE TO REMAIN, PROTECT IN PLACE. VERIFY LOCATION IN FIELD
- 02 00 22.3 (E) LAVATORY TO REMAIN, PROTECT IN PLACE
- 02 41 08.1 DEMO (E) EXTERIOR DOOR AND INFILL WITH NEW WALL ASSEMBLY, MATCH (E) ADJACENT WALL TYPE ASSEMBLY
- 02 41 08.2 DEMO (E) PORTION OF EXTERIOR WALL TO CREATE OPENING. SAFELY SECURE AND CAP ALL UTILITIES AND COORDINATE WITH RESPECTIVE TRADE
- 02 41 08.3 DEMO (E) INTERIOR DOOR, FRAME AND HARDWARE
- 02 41 08.7 REMOVE (E) LOULVERS AND INFILL WITH NEW WALL ASSEMBLY, MATCH (E) ADJACENT WALL TYPE ASSEMBLY
- 02 41 08.8 REMOVE (E) WINDOW AND INFILL WITH NEW WALL ASSEMBLY, MATCH (E) ADJACENT WALL TYPE ASSEMBLY
- 02 41 08.9 DEMO (E) WALL AND FINISH
- 02 41 09.5 REMOVE (E) WALL FINISH, PREP AREA FOR NEW FINISH PER CMF, TYP.
- 02 41 09.6 REMOVE (E) WALL DECORATIONS AND RELOCATE PER DISTRICT, PREP AREA FOR NEW FINISH PER CMF.
- 02 41 09.7 REMOVE (E) CEILING FINISH
- 02 41 11.2 DEMO EXISTING FOODSERVICE EQUIPMENT PER FOODSERVICE DRAWINGS
- 02 41 12.16 (E) BASE CASEWORK W/ COUNTER TOP TO BE DEMOED
- 02 41 12.19 DEMO (E) FULL HEIGHT CASEWORK AND STORAGE CABINETS
- 02 41 12.24 REMOVE (E) MOBILE SHELVES & TABLES, PREP AREA PER FOOD SERVICES DRAWINGS
- 02 41 22.4 DEMO (E) PLUMBING EQUIPMENT PER PLUMBING DRAWINGS
- 02 41 22.5 DEMO (E) PLUMBING FIXTURES PER PLUMBING DRAWINGS
- 02 41 23.5 (E) CEILING MOUNTED AIR VENT TO BE DEMOLISHED, PREP AREA FOR NEW AIR SUPPLIER PER MECHANICAL DRAWINGS
- 02 41 23.6 (E) CEILING MOUNTED AIR DIFFUSER TO BE DEMOLISHED, PREP AREA FOR NEW DIFFUSER PER MECHANICAL DRAWINGS
- 02 41 23.7 (E) WATER HEATER EXHAUST VENT TO BE DEMOLISHED PER MECHANICAL DRAWINGS
- 02 41 26.3 (E) INTERIOR CEILING LIGHTING TO BE REMOVED

DEMO PLAN LEGEND

- DEMO (E) FLOOR FINISH AND SUBSTRATE, PREP FOR NEW FLOOR FINISH
- DEMO (E) PLASTER CEILING SYSTEM TO ITS ENTIRETY
- DEMO (E) ROOF ASSEMBLY
- DEMO (E) LIGHTING



FOR REFERENCE ONLY
 DEMO REFLECTED CEILING



PROJECT No. 1-104-01
 7/5/2024 1:26:53 PM

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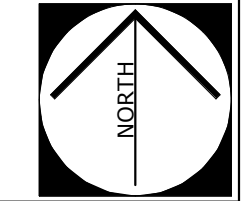
DELTA #	DATE	ADD	ARO	CCD	REV

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

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-6664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 439-3899

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



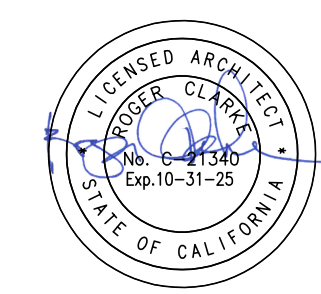
KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK C. JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

DEMO FLOOR PLAN &
 RCP

A-0.1

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
FIG No: *****

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CLARKE**
ARCHITECTS

STAMPS

CONSULTANT BRANDING

GENERAL NOTES

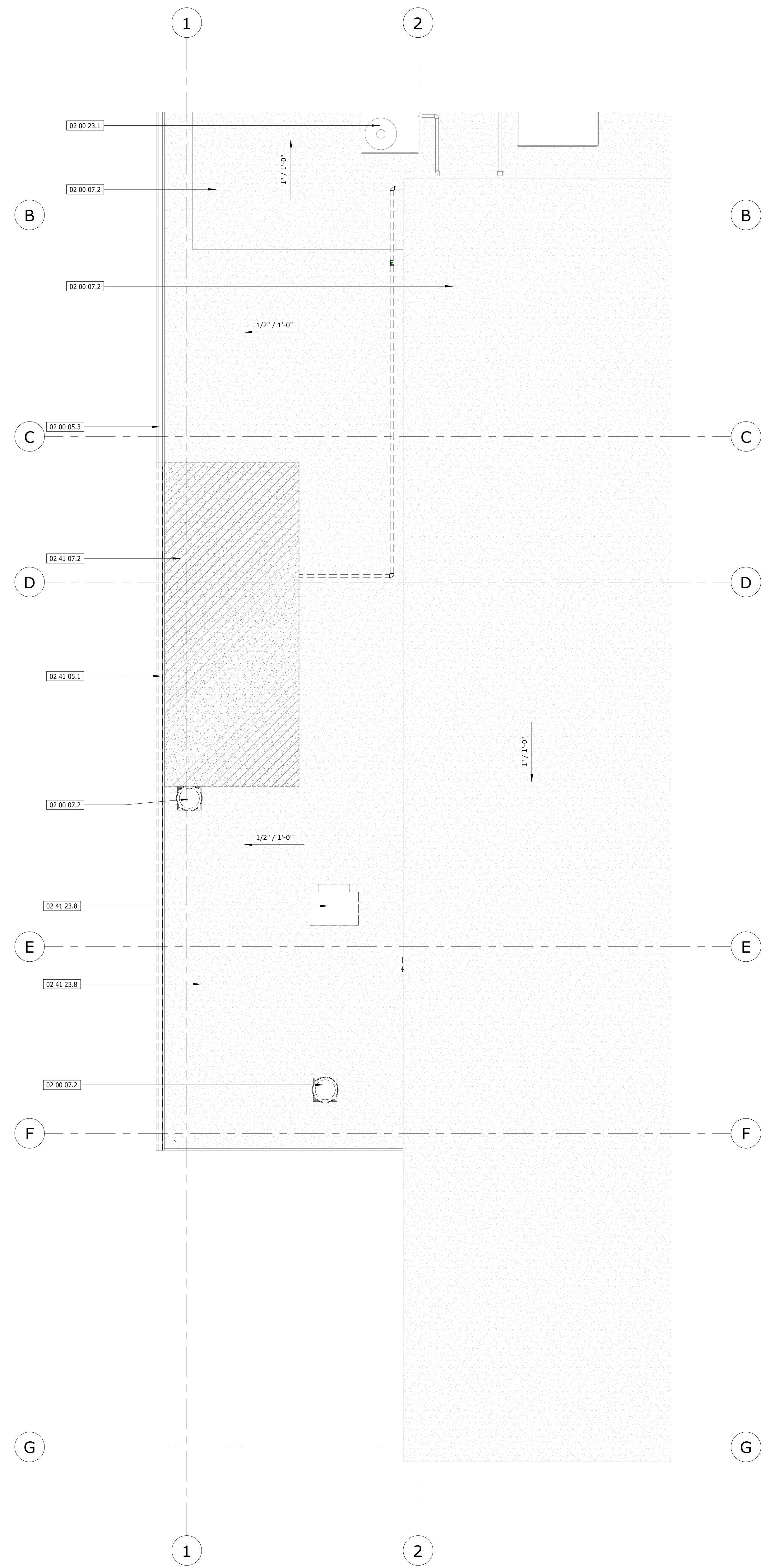
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF SITE AND IT IS THEIR SOLE RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION BASED UPON THE PROPOSED NEW WORK.
 3. PATCH AND REPAIR ANY PAVING DAMAGE CAUSED BY DEMOLITION BEYOND EXTENTS SPECIFIED. REPAIR TO MATCH EXISTING.
 4. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CBC 2022 CHAPTER 33.
 5. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRUCTURES THAT ARE TO BE DEMOLISHED (ABOVE AND BELOW GROUND). ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND BE REMOVED AS REQUIRED BY STATE AND LOCAL LAWS.
 6. REFER TO SPECIFICATIONS FOR CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. CUT & CAP (E) UTILITIES AS REQUIRED.
 7. ALSO REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, FOOD SERVICE DRAWINGS FOR DEMO WORK.
 8. NO DEMOLITION WORK SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY THE DIVISION OF STATE ARCHITECT (DSA)
 9. LIST OF (E) ITEMS TO REMAIN IS NOT INCLUSIVE OF ALL ITEMS TO REMAIN. ITEMS SPECIFICALLY NOTED AS (E) TO REMAIN WITH REFERENCE TO SPEC SECTION 02.00.00.1 THRU 02.00.00.99, AND ITEMS TO BE DEMOLISHED, SEE SECTION 20.41.00 FOR MORE INFORMATION.
- NOTE:** SPECIFIC DEMOLITION SCOPE IS INDICATED BY KEYNOTES 02.41.00.00 THRU 02.41.00.99. SEE NOTES, GENERAL NOTES, DETAILS, AND DOCUMENTS PREPARED BY OTHER DISCIPLINES FOR INFORMATION AND FULL SCOPE OF DEMOLITION.

KEYNOTES

02 00 05.3	(E) ROOF GUTTER TO REMAIN, PROTECT IN PLACE
02 00 07.2	(E) ROOFING SYSTEM TO REMAIN, PROTECT IN PLACE
02 00 23.1	(E) MECH. EQUIP. PROTECT IN PLACE
02 41 05.1	DEMO (E) ROOF GUTTER
02 41 07.2	DEMO PORTION OF (E) ROOF STRUCTURE/SHEATHING, PREP AREA FOR NEW WORK
02 41 23.8	DEMO (E) MECHANICAL EQUIPMENT PER MECHANICAL DRAWINGS

DEMO PLAN LEGEND

- DEMO (E) FLOOR FINISH AND SUBSTRATE, PREP FOR NEW FLOOR FINISH
- DEMO (E) PLASTER CEILING SYSTEM TO ITS ENTIRETY
- DEMO (E) ROOF ASSEMBLY
- DEMO (E) LIGHTING



FOR REFERENCE ONLY

PROJECT No. :1-104-01
7/5/2024 1:26:54 PM

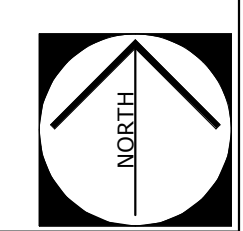
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KITCHEN UPGRADES AT JOYCE E.S.

FREDERICK C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

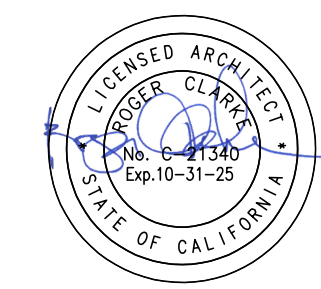


DEMO ROOF PLAN SCALE: 1/4" = 1'-0" 1

DEMO ROOF PLAN

A-0.2

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
 (Seal area)

**RUHNAU
 CLARKE
 ARCHITECTS**

STAMPS

CONSULTANT BRANDING

GENERAL NOTES

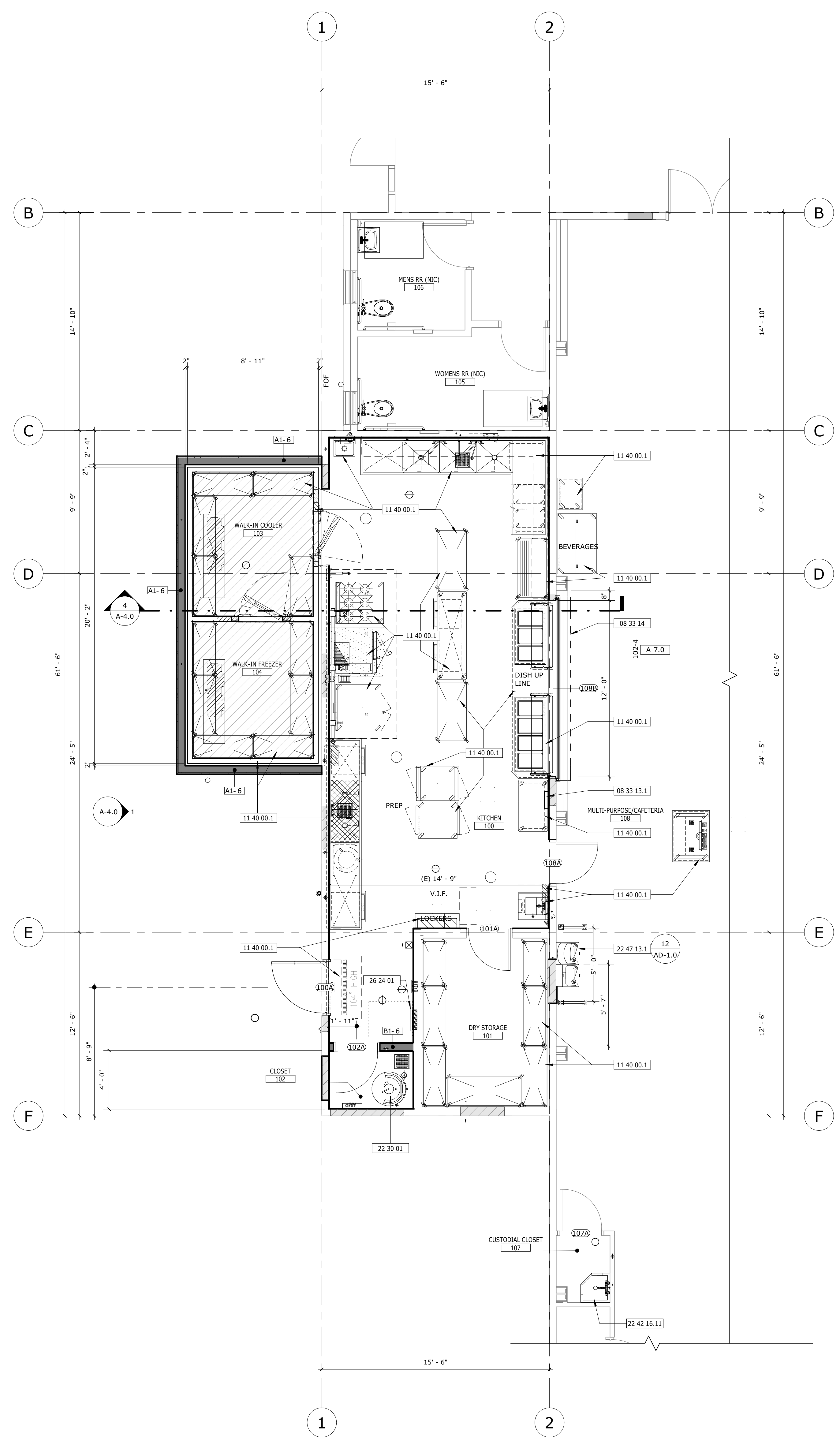
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.
3. SEE SHEET **AD-2.0** FOR WALL TYPE INFORMATION.
4. ALL (E) WALL CAVITIES OPENED FOR WORK SPECIFIED IN THESE DOCUMENTS AND ALL NEW WALLS W/IN PROJECT AREA OF WORK TO RECEIVE UNCOMPRESSED FULL DEPTH BATT INSULATION. USE UNFACED BATT INSUL. AT INTERIOR LOCATIONS AND SINGLE SIDE PAPER FACED BATT UNSUL. AT EXTERIOR ASSEMBLES WITH UNFACED SIDE TOWARD INTERIOR.
5. PROVIDE STUD BRACING AND SUPPORT FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES. PER DETAIL **13 AD-2.0**
6. SEE SHEET **A-8.0** FOR DOOR INFORMATION
7. SET DOORS ADJACENT TO WALLS A MIN. OF 6" AWAY FROM WALL U.N.O.

KEYNOTES

08 33 13.1	ROLL-UP WINDOW SHUTTER MOTOR CONTROL BOX
08 33 14	ELECTRIC OPERATED ROLLING COUNTER DOORS
11 40 00.1	FOODSERVICE EQUIPMENT PER FOODSERVICE DRAWINGS
22 30 01	PLUMBING EQUIPMENT PER PLUMBING DRAWINGS
22 42 16.11	MOP SINK, PER PLUMBING DRAWINGS
22 47 13.1	DRINKING FOUNTAIN WITH BOTTLE FILLER
26 24 01	ELECTRICAL PANEL PER ELECTRICAL DRAWINGS

FLOOR PLAN LEGEND

- DEPRESSED FLOOR SLAB. NOTE THAT FINISHED FLOOR TO BE 2% SLOPE MAX. IN ALL DIRECTIONS.
- WALL TYPE
- WALL WIDTH
- NEW WALL
- INFILL OPENING TO MATCH EXISTING OR NEW FINISH ON BOTH SIDES
- EXISTING WOOD STUD WALL
- DOOR TAG
- ABOVE/OVERHANG



FOR REFERENCE ONLY

PROJECT No. :1-104-01
 7/5/2024 1:26:56 PM

DATE	BY	DESCRIPTION

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KITCHEN UPGRADES AT JOYCE E.S.

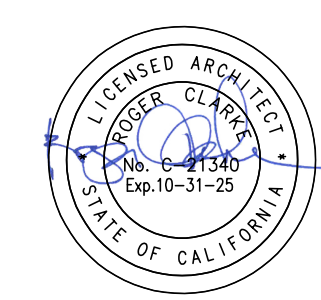
FLOOR PLAN SCALE: 1/4" = 1'-0" **1**

FREDERICK C. JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

FLOOR PLAN

A-1.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
FIG. NO. *****

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GENERAL NOTES

1. ALL LIGHT FIXTURES TO BE CENTERED IN SPACE, U.N.O.
2. ALL CEILING HEIGHTS ARE RELATIVE TO THE FINISH FLOOR DIRECTLY BENEATH.
3. ACOUSTICAL CEILING TILES AND GRID TO BE CENTERED IN ROOM. SEE SHEET FOR SUSPENDED CEILING SEISMIC BRACING DETAILS AND TRAPEZE DETAILS.
4. ALL EXPOSED STRUCTURE TO BE COVERED WITH BLACK SCRIM PAPER FASTENED TO BOTTOM OF JOISTS. ALL MECHANICAL (INCLUDING REGISTERS), ELECTRICAL, PLUMBING, HANGER, BRACING, SUPPORT WIRE, ETC. BELOW BLACK SCRIM PAPER TO BE PAINTED BLACK TO MATCH. REFER TO U.O.S. CEILINGS ON RCP AND IN FINISH SCHEDULE. ALL SUPPLIES AND RETURN REGISTERS TO BE PRE-FINISHED TO MATCH SCRIM PAPER COLOR.
5. ALL MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT TO BE HELD AS TIGHT AS POSSIBLE TO CEILING STRUCTURE.
6. ALL CONDUIT IN EXPOSED AREAS WHERE CEILING STRUCTURE IS EXPOSED CAN ONLY PENETRATE WALLS AT ROOF / FLOOR DECK.
7. REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR CEILING COMPONENT CALLOUTS AND FIXTURE TYPES.
8. PAINT ALL SUPPLY & RETURNS OF ALL ACCENT PAINTED CEILING AREAS.
9. ALL NEW OR REPAIRED UNVENTED ENCLOSED GYP BD CEILING ASSEMBLIES TO RECEIVE UNCOMPRESSED UNFACED BATT INSULATION TO MATCH DEPTH OF FRAMING, MINIMUM. IN NEW OR REPAIRED VENTED ASSEMBLIES USE UNFACED BATT INSUL UP TO THE DEPTH OF FRAMING ONLY IN LOCATIONS WHERE INSULATION WILL NOT INTERFERE WITH VENTILATION.

KEYNOTES

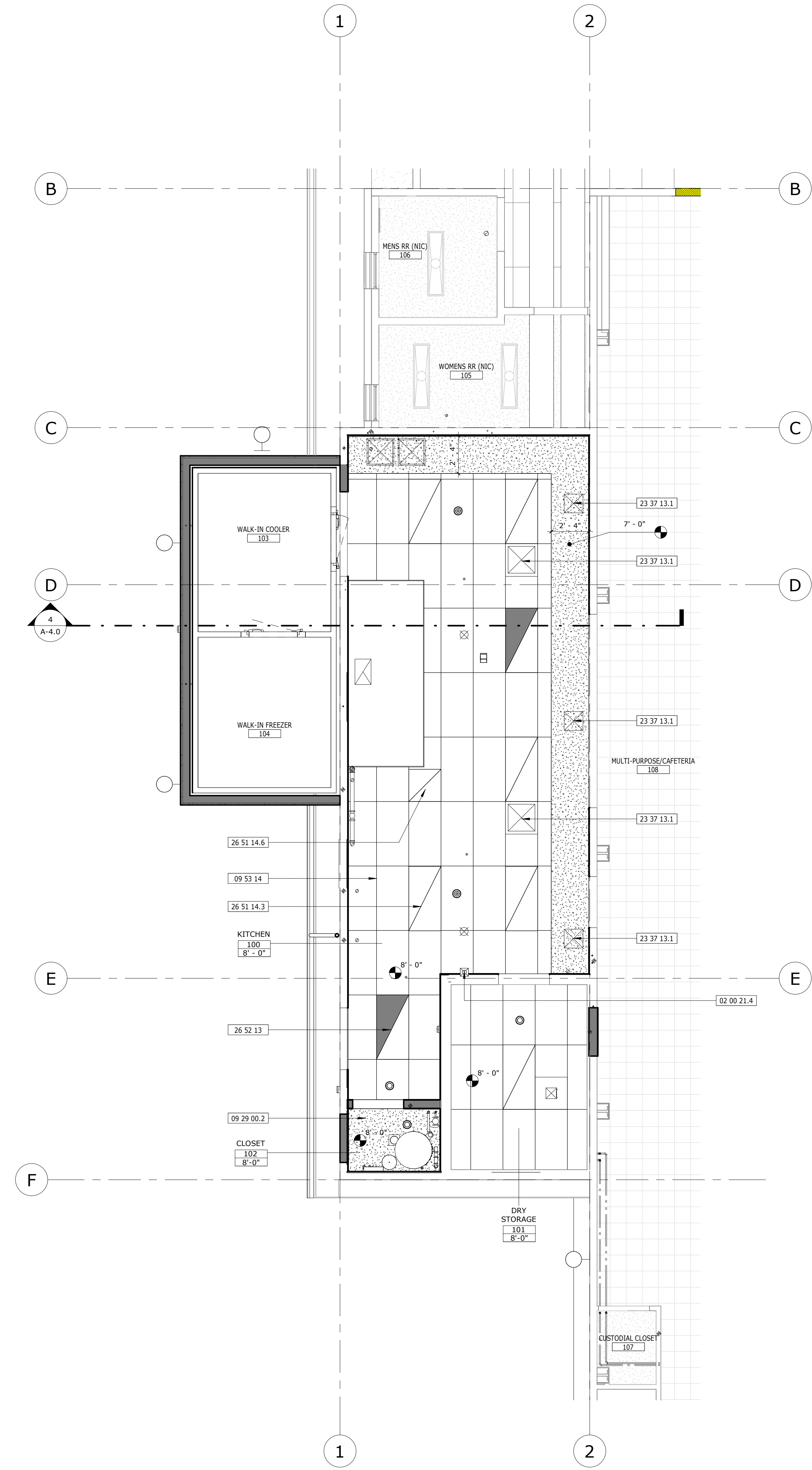
02 00 21.4	(E) FIRE STROBE TO REMAIN, PROTECT IN PLACE. VERIFY LOCATION IN FIELD.
09 29 00.2	GYPSUM BOARD CEILING
09 53 14	ACOUSTICAL CEILING TILE ASSEMBLY
23 37 13.1	DIFFUSER PER MECHANICAL DRAWINGS
26 51 14.3	2 X 4 CEILING MOUNTED LIGHTING, PER ELECTRICAL DRAWINGS
26 51 14.4	2 X 2 CEILING MOUNTED LIGHTING, PER ELECTRICAL DRAWINGS
26 52 13	EMERGENCY AND EXIT LIGHTING

CEILING PLAN LEGEND

- (E) PLASTER CEILING SYSTEM TO REMAIN, PREP FOR NEW PAINT
- GYPSUM BOARD CEILING SYSTEM
- ACT CEILING SYSTEM
- RECESSED LIGHT FIXTURE, SEE ELEC. DWGS. & DET.
- SUPPLY DIFFUSER PER MECH. DWGS.
- RETURN AIR GRILLE PER MECH. DWGS.

NOTE:
REFER TO COLORS, MATERIALS, AND FINISHES LEGEND FOR ADDITIONAL INFORMATION

ID-1.0



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

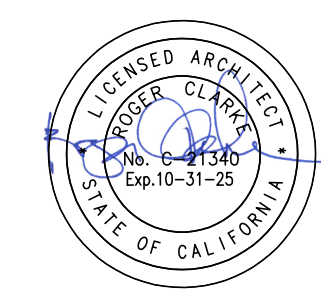
KITCHEN UPGRADES AT JOYCE E.S.

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RCP

A-2.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24




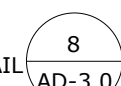
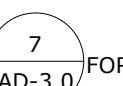

AGENCY APPROVAL
FIG No: *****

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ARCHITECTS**

STAMPS

CONSULTANT BRANDING

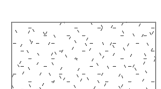
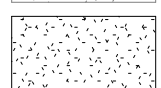
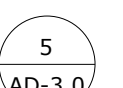
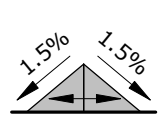
GENERAL NOTES

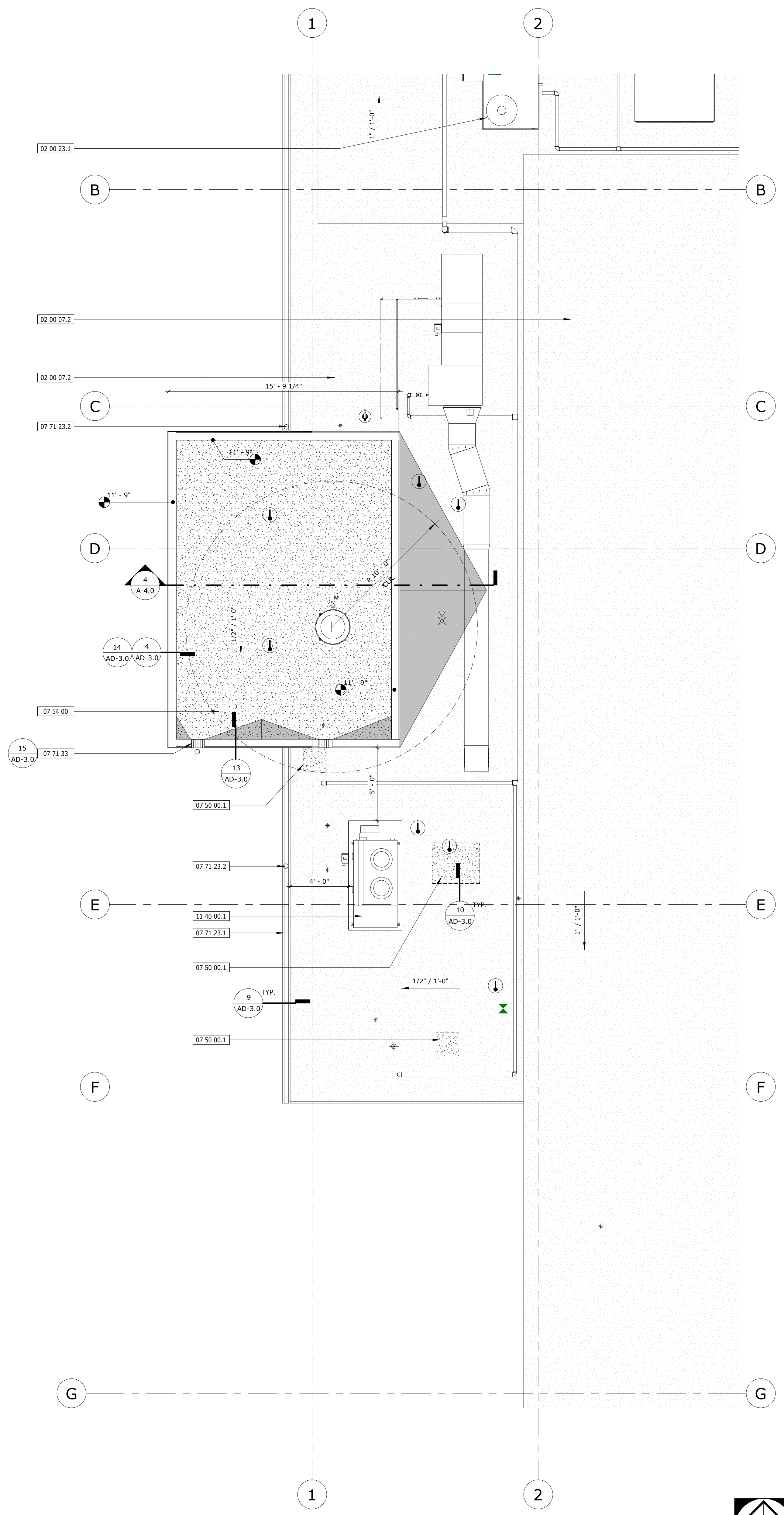
- SEE DETAIL  FOR TYPICAL ROOF ASSEMBLY.
- FOR PIPE VENT PENETRATIONS THROUGH ROOF, REFER TO DETAIL   FOR TYP. INFO.
- ALL CRICKETS SHALL BE SHAPED WITH PLYWOOD WITH A MIN. 1.5% SLOPE TO ROOF AND OVERFLOW DRAINS.
-
- AT MECHANICAL EQUIPMENT, REFER TO DETAIL  FOR ROOF CURB

KEYNOTES

- | | |
|------------|--|
| 02 00 07.2 | (E) ROOFING SYSTEM TO REMAIN, PROTECT IN PLACE |
| 02 00 23.1 | (E) MECH. EQUIP. PROTECT IN PLACE |
| 07 50 00.1 | REPAIR, PATCH TO EXISTING CONDITIONS |
| 07 54 00 | THERMOPLASTIC MEMBRANE ROOF |
| 07 71 23.1 | GUTTER |
| 07 71 23.2 | DOWNSPOUT |
| 07 71 33 | SCUPPER |
| 11 40 00.1 | FOODSERVICE EQUIPMENT PER FOODSERVICE DRAWINGS |

LEGEND

-  (E) MEMBRANE ROOF ASSEMBLY
-  CLASS 'A' MEMBRANE ROOF ASSEMBLY 
-  ROOF CRICKET - MIN. 1.5% SLOPE TO ROOF AND OVERFLOW DRAINS
MAINTAIN MIN. SLOPE PER SPECS ALONG FLOW LINES, U.N.O.



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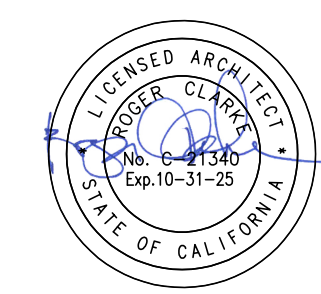
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ROOF PLAN

A-3.0

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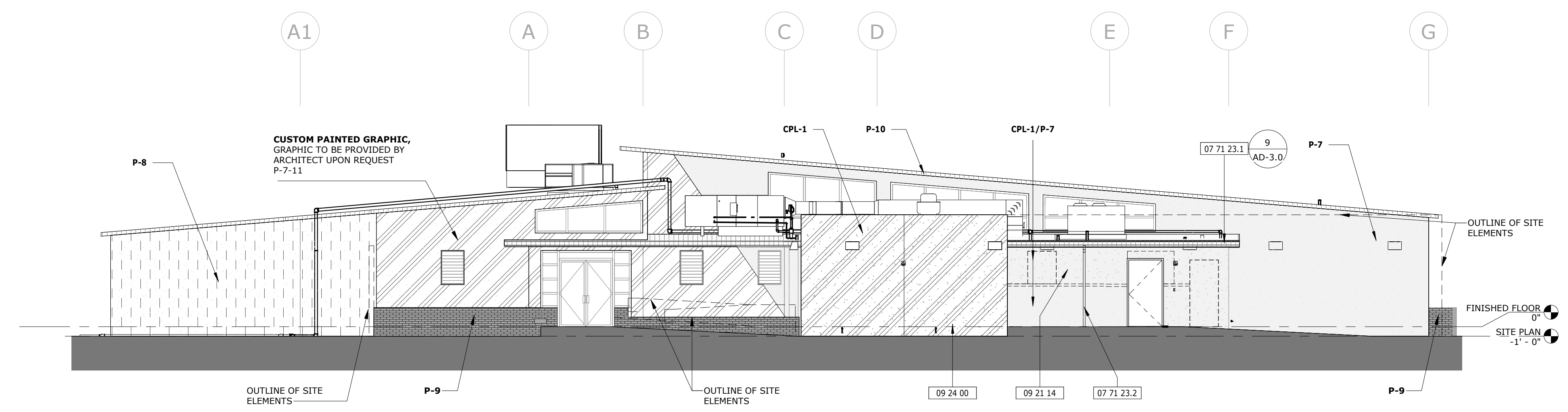


AGENCY APPROVAL
FIG. NO. *****

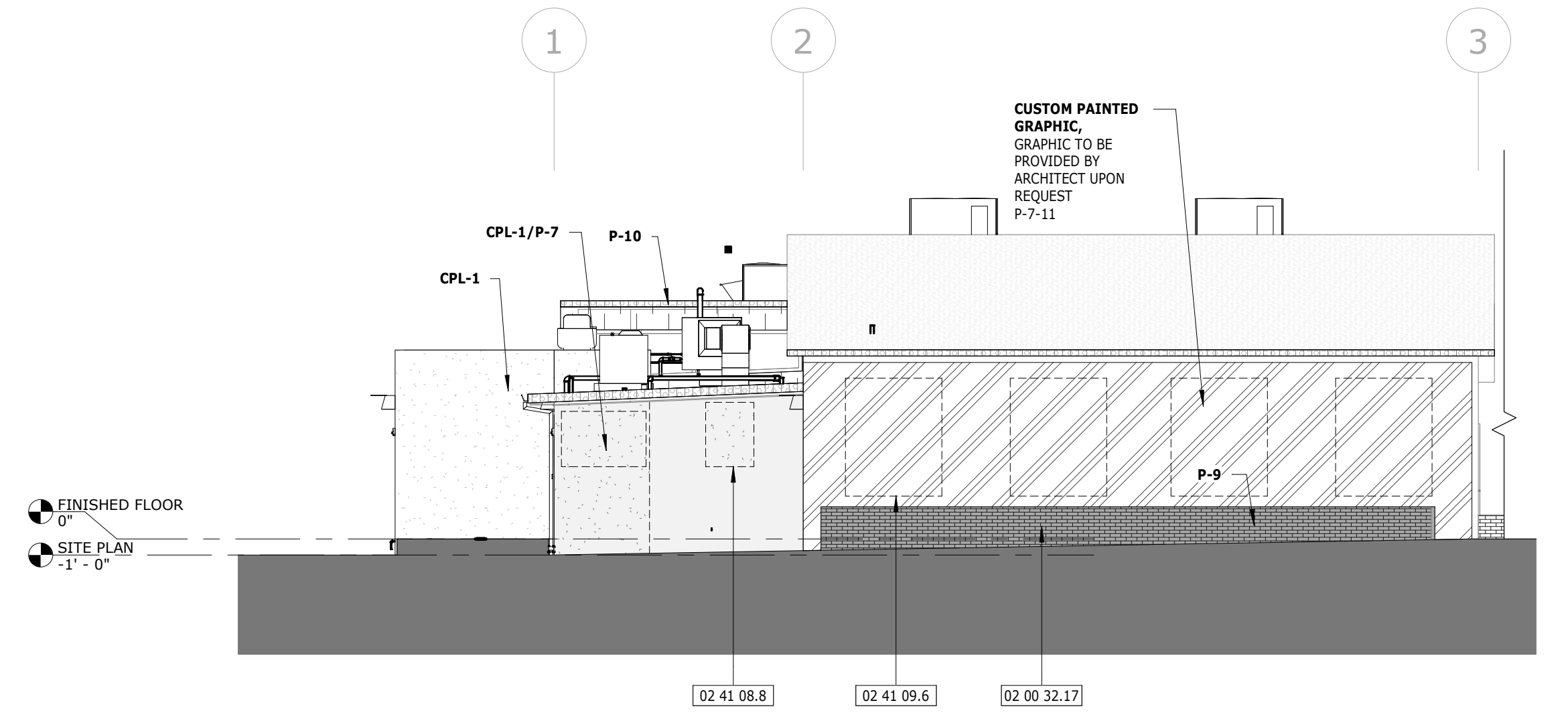
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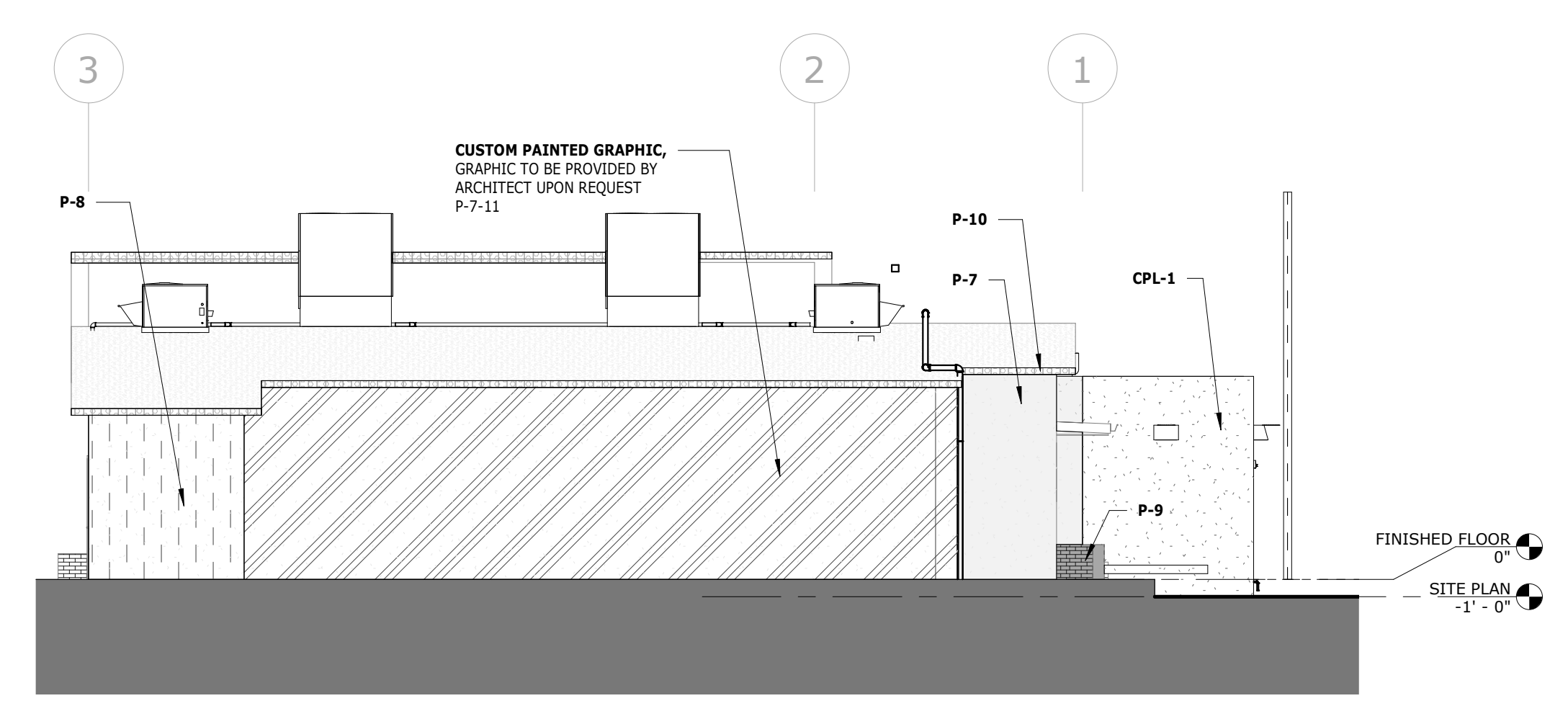
CONSULTANT BRANDING



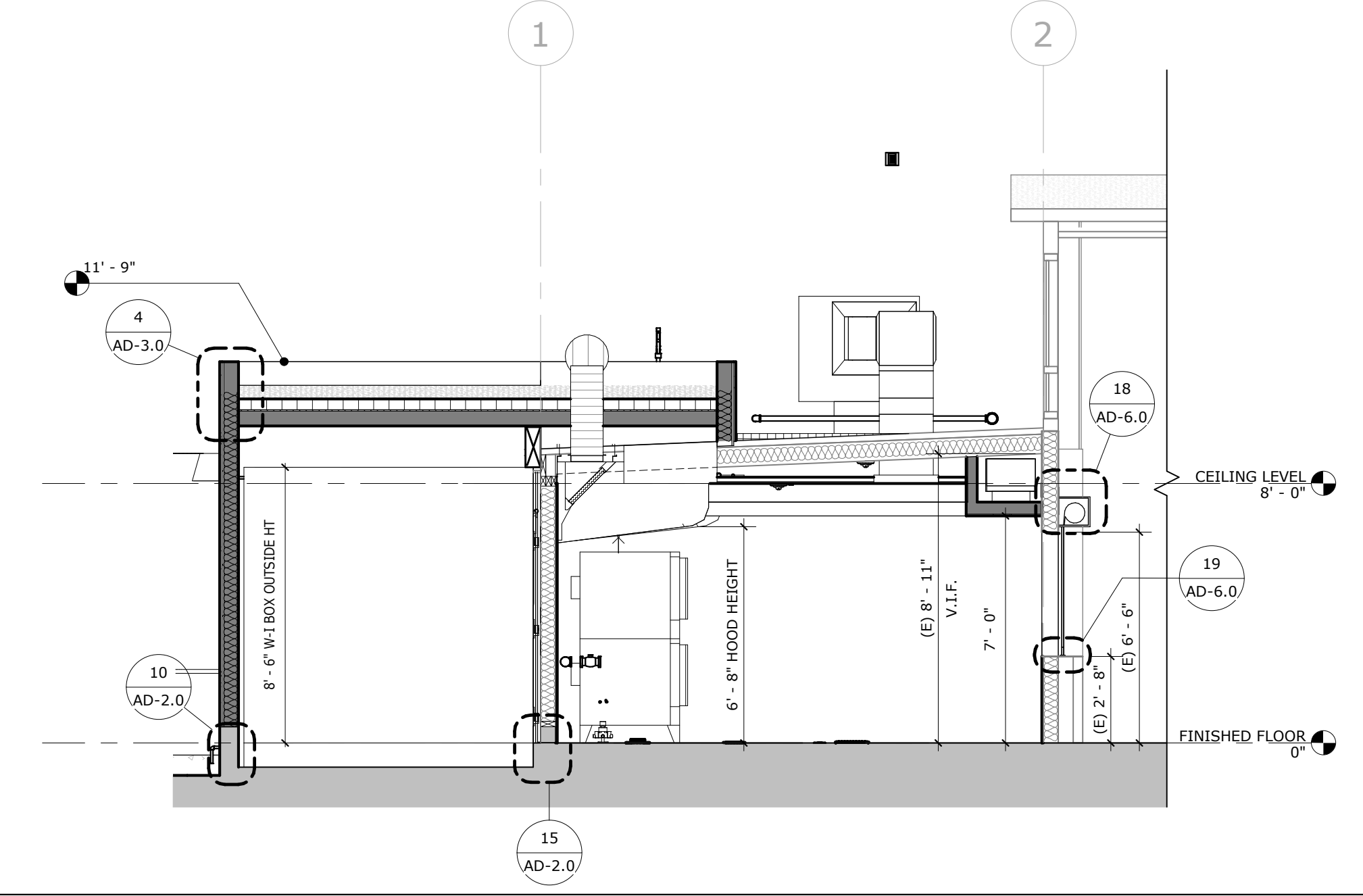
EXTERIOR ELEVATION - WEST SCALE: 1/8" = 1'-0" 1



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



EXTERIOR ELEVATION - NORTH SCALE: 1/8" = 1'-0" 3



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

GENERAL NOTES

- SLAB ON GRADE: 0'-0" = GLOBAL ELEVATION: ##.##'
- VERIFY ALL EXTERIOR ROOF OPENINGS & VENTS WITH MECHANICAL, ELECTRICAL, STRUCTURAL & PLUMBING DRAWINGS. SEE DETAILS & FOR TYPICAL ROOF VENT PENETRATION DETAIL.
- PROVIDE R-# RIGID INSULATION OVER (STRUCTURE TYPE). SEE DETAIL FOR TYPICAL ROOF CONSTRUCTION ASSEMBLY.
- PROVIDE R-# BATT INSULATION AT ALL EXTERIOR WALLS, U.N.O. GYPSUM BOARD AND INSULATION SHALL EXTEND FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE
- ALL EXPOSED STRUCTURE, INCLUDING MECHANICAL & PLUMBING EQUIPMENT TO BE PAINTED

KEYNOTES

- | | |
|-------------|--|
| 02 00 32.17 | (E) PLANTER BRICK WALL TO REMAIN, PROTECT IN PLACE |
| 02 41 08.8 | REMOVE (E) WINDOW AND INFILL WITH NEW WALL ASSEMBLY, MATCH (E) ADJACENT WALL TYPE ASSEMBLY |
| 02 41 09.6 | REMOVE (E) WALL DECORATIONS AND RELOCATE PER DISTRICT, PREP AREA FOR NEW FINISH PER CWF |
| 07 71 23.1 | GUTTER |
| 07 71 23.2 | DOWNSPOUT |
| 09 21 14 | NEW PLASTER ASSEMBLY WALL BOARD TO MATCH EXISTING, EXTEND TO UNDERSIDE OF ROOF |
| 09 24 00 | CEMENT PLASTER SYSTEM |

EXTERIOR ELEVATIONS LEGEND

- CEMENT PLASTER - PLASTER FINISH (CPL-1)
SEE SPECIFICATION SECTION 09 24 00
- EXTERIOR PAINT - (P-7)
SEE SPECIFICATION SECTION 09 91 13
- EXTERIOR PAINT - (P-8)
SEE SPECIFICATION SECTION 09 91 13
- EXTERIOR PAINT - (P-9)
SEE SPECIFICATION SECTION 09 91 13
- EXTERIOR PAINT - (P-10)
SEE SPECIFICATION SECTION 09 91 13
- CUSTOM PAINTED GRAPHIC TO BE PROVIDED BY ARCHITECT UPON REQUEST:
(INVESTMENT PLASTER (CPL-1) TO BE PAINTED (P-7, 8, 9, 10, 11).
SEE SPECIFICATION SECTION 09 91 13

NOTE: REFER TO COLORS, MATERIALS AND FINISHES LEGEND FOR ADDITIONAL INFORMATION (10-1.0)

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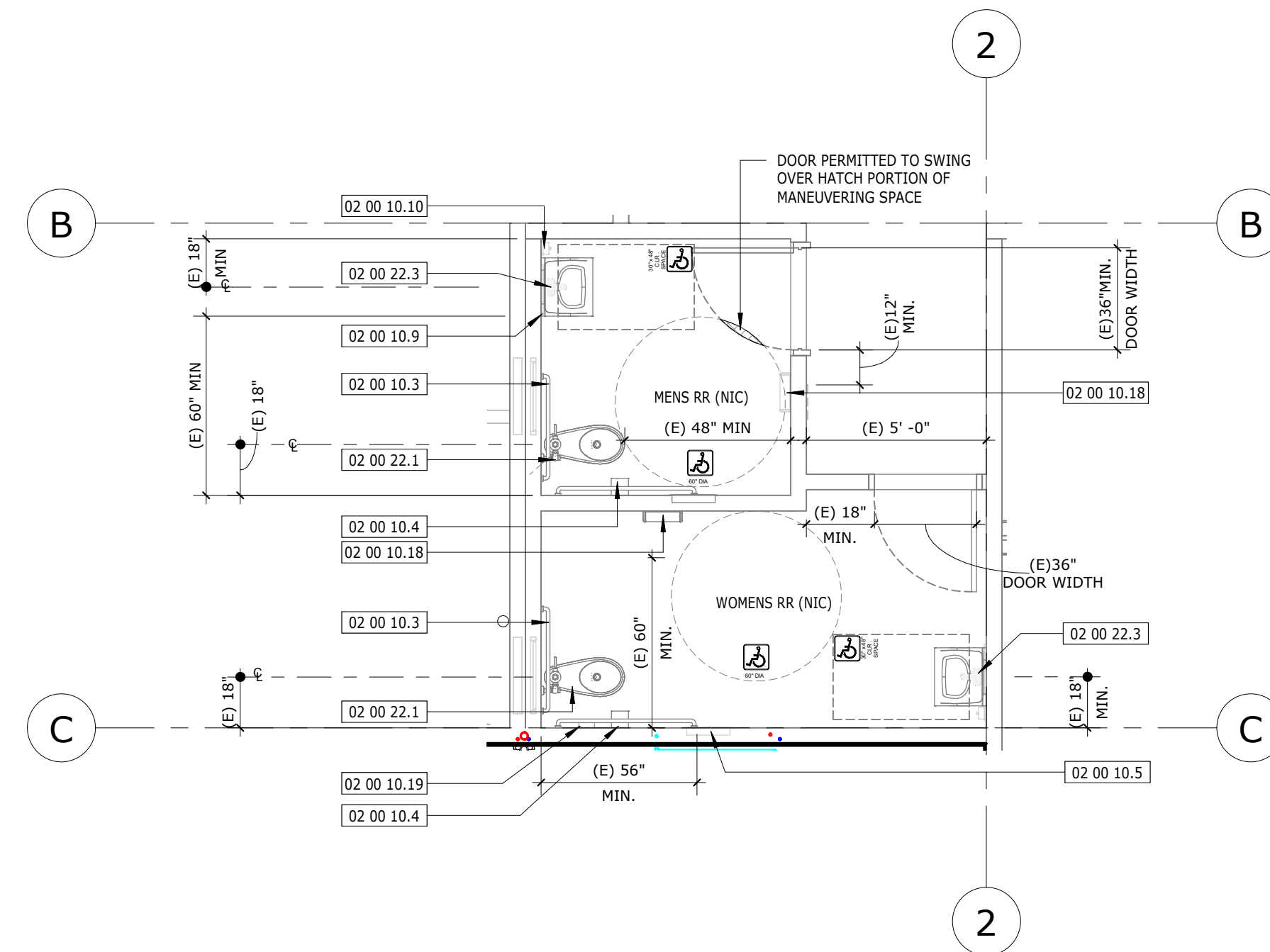
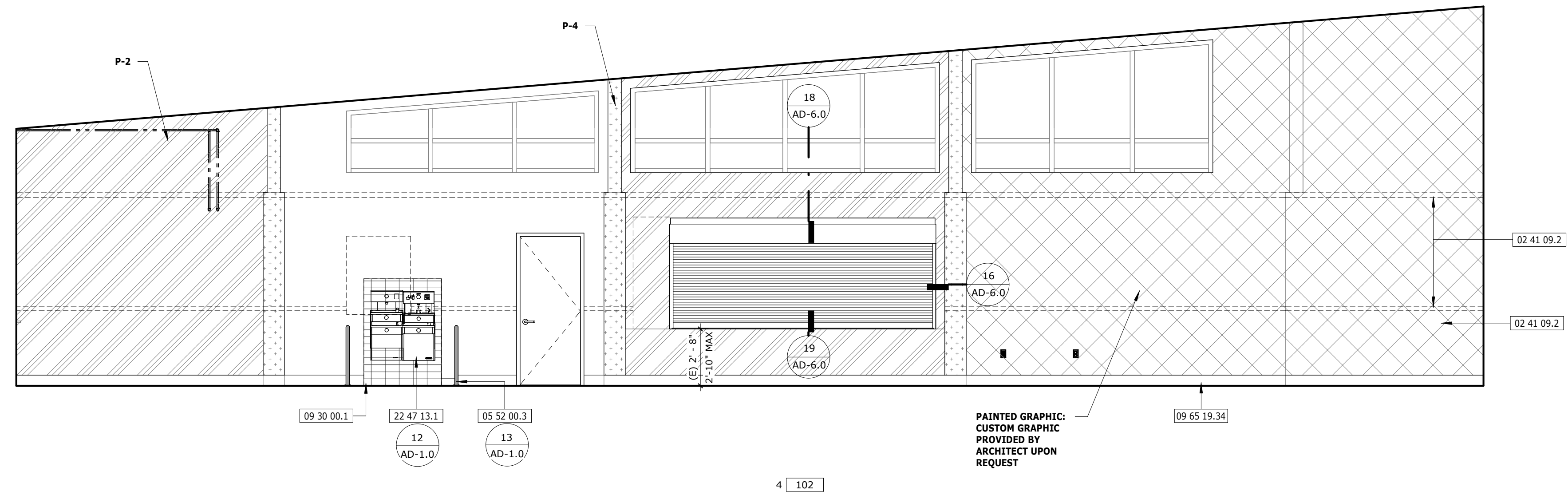
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**ELEVATIONS &
SECTIONS**

A-4.0

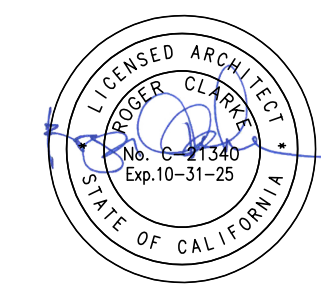
KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



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MULTI-PURPOSE/CAFETERIA SCALE: 1/4" = 1'-0" 2

(E) MENS/BOYS AND WOMENS/GIRLS RESTRM FLR PLAN (A# 22586) SCALE: 1/4" = 1'-0" 1



AGENCY APPROVAL
 (Seal area)

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GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.
3. PROVIDE STUD BRACING AND SUPPORT FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES PER DETAIL.
4. PROVIDE GROMMETS AND RINGS IN COUNTER TOPS 60°O.C. FOR POWER AND DATA.

KEYNOTES

- | | |
|-------------|--|
| 02 00 10.3 | (E) GRAB BAR TO REMAIN, PROTECT IN PLACE |
| 02 00 10.4 | (E) TOILET TISSUE DISPENSER TO REMAIN, PROTECT IN PLACE |
| 02 00 10.18 | (E) WALL MOUNTED HAND DRYER TO REMAIN, PROTECT IN PLACE |
| 02 00 10.19 | (E) SANITARY WAPIN DISPOSAL TO REMAIN, PROTECT IN PLACE |
| 02 00 22.1 | (E) WATER CLOSET TO REMAIN, PROTECT IN PLACE |
| 02 00 22.3 | (E) LAVATORY TO REMAIN, PROTECT IN PLACE |
| 02 41 09.2 | REMOVE (E) WALL FINISH & TRIM, PATCH, REPAIR AND PREP FOR NEW WALL FINISH & TRIM PER CMF, TYP. |
| 05 52 00.3 | FLOOR MOUNTED ADA-COMPLIANT STAINLESS STEEL DRINKING FOUNTAIN RAIL |
| 09 30 00.1 | TILE ACCESSORY, BASE TRIM |
| 09 65 19.34 | RUBBER BASE |
| 22 47 13.1 | DRINKING FOUNTAIN WITH BOTTLE FILLER |

INTERIOR ELEVATIONS LEGEND

PAINT

	P-1
	P-2
	P-4
	CUSTOM PAINTED GRAPHIC, GRAPHIC PROVIDED BY ARCHITECT UPON REQUEST

NOTE:
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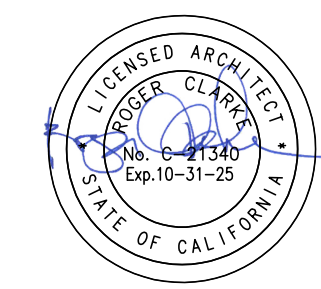
ENLARGED PLANS /
 INTERIOR ELEVATIONS

A-7.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	EXTERIOR	DOOR						FRAME			Panic Hardware	Hardware Group	Fire Rating	REMARKS	
			WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	COLOR	HEAD	JAMB 1	SILL/THRESHOLD					
100A	A	*	3'-6"	7'-0"	1 3/4"	HM	PSG	P-12	HM	PSG	P-12	11/AD-6.0	12/AD-6.0	5/AD-6.0	NO. 01	
101A	A		2'-10"	7'-0"	1 3/4"	HM	PSG	P-12	HM	PSG	P-12	6/AD-6.0	7/AD-6.0	10/AD-6.0	NO. 03	NEW DOOR IN EXISTING OPENING, V.I.F. EXISTING OPENING SIZE
102A	A		2'-10"	7'-0"	1 3/4"	HM	PSG	P-12	HM	PSG	P-12	6/AD-6.0	7/AD-6.0	10/AD-6.0	NO. 02	
107A	(E)		2'-10"	7'-0"	1 3/4"	(E)HM	PSG	P-12	(E)HM	PSG	P-12	6/AD-6.0	7/AD-6.0	10/AD-6.0	NO. 04	EXISTING DOOR TO REPAIR AND REPLACE HARDWARE
108A	C		2'-10"	7'-0"	1 3/4"	SC	PSG	P-12	HM	PSG	P-12	6/AD-6.0	7/AD-6.0	10/AD-6.0	NO. 06	NEW DOOR IN EXISTING OPENING, V.I.F. EXISTING OPENING SIZE
108B	O		12'-0"	3'-6"	1 3/4"	SS	FF	PC-1	SS	FF	PC-1	18/AD-6.0	16/AD-6.0	19/AD-6.0	NO. 07	FF: RAL #3005



AGENCY APPROVAL
 (Seal No. 14610-31-28)

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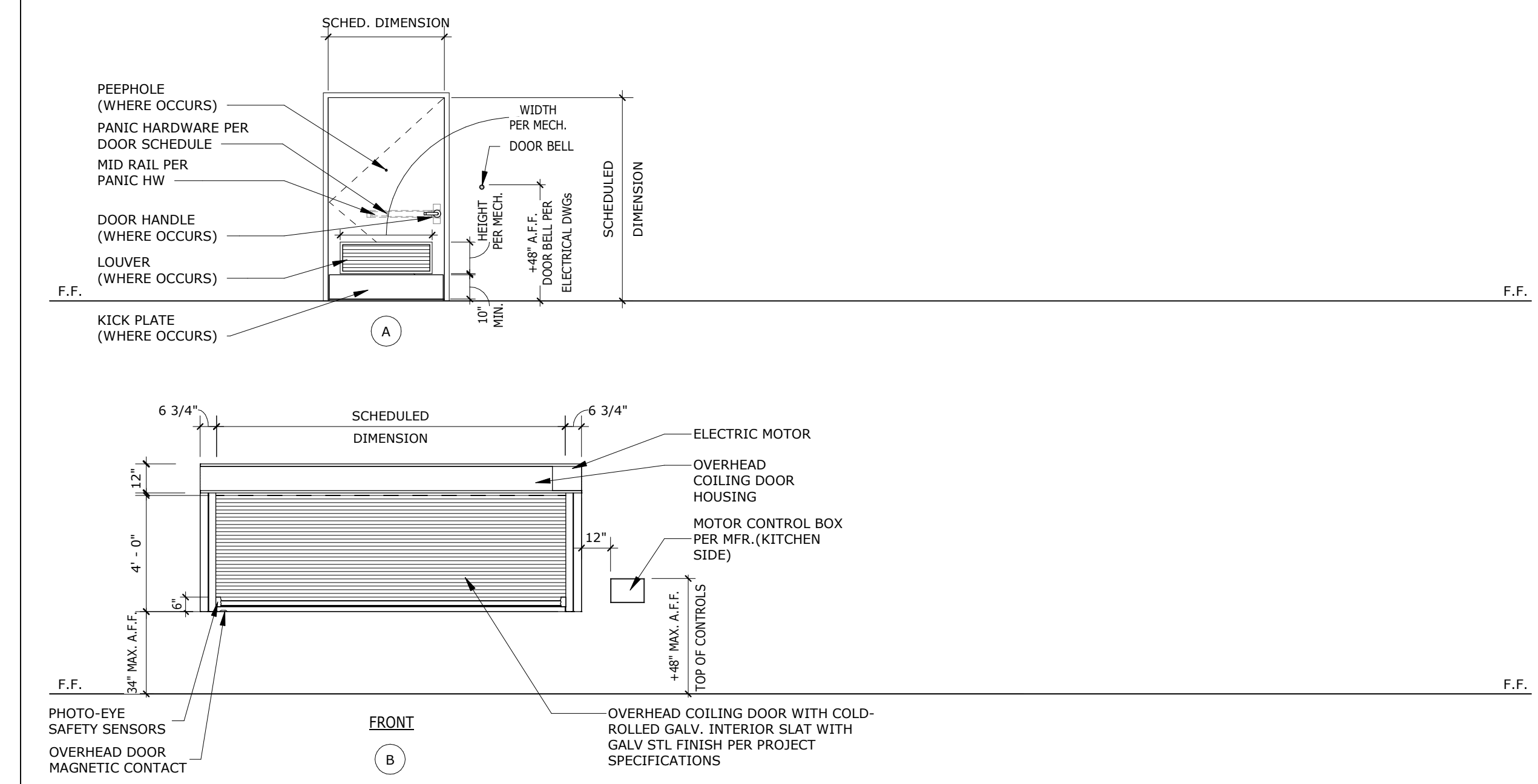
GENERAL NOTES

1. SEE SHEET 3
AD-6.0 FOR HOLLOW METAL FRAME DETAILS
2. SET DOORS ADJACENT TO WALLS A MIN. OF 6" AWAY FROM WALL U.N.O.
3. ALL GLAZING IN DOORS, AND WINDOWS BELOW 8'-0" A.F.F., ARE TEMPERED OR AS REQUIRED BY SECTION 2406 OF THE 2022 CBC
4. PROVIDE DOOR STOPS AT ALL INTERIOR DOORS. PROVIDE BACKING PLATE PER DETAIL 13
AD-2.0
5. ALL EXTERIOR DOORS ARE TO SWING OUT AND OPEN TO A MIN. OF 110 DEGREES FROM ITS CLOSED POSITION WHERE POSSIBLE, U.N.O.
 EXCEPTION: WHERE TACTILE SIGNAGE IS LOCATED ON HINGE SIDE OF DOOR, DOORS TO HAVE A 90 DEGREE SWING LIMIT
6. ALL EXTERIOR DOORS SHALL HAVE A POLYSTYRENE CORE (THERMAL RESISTANCE)
7. PROVIDE AIR SEALS/WEATHER STRIPPING AT ALL EXTERIOR DOORS TO CONDITIONED SPACES.
8. ALL FLOOR MATERIAL CHANGE SHALL BE LOCATED UNDER THE CENTERLINE OF DOOR WHERE OCCURS, TYP.
9. ALL EXTERIOR DOORS SHALL BE OPERABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. DEAD BOLTS ARE ONLY PERMITTED WHEN OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
10. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED 34"-48" A.F.F.
11. ALL DOORS SHALL BE LOCKABLE FROM THE INTERIOR SIDE
12. PER SECTION 1008.1.10 IN THE CBC 2022, DOOR SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE ARE REQUIRED TO HAVE PANIC HARDWARE OR FIRE EXIT HARDWARE.
13. PER CBC 2022 11B-404.2.5, THRESHOLDS SHALL BE 1/2" HIGH MAX., SEE DETAIL 5
AD-6.0
14. THE BOTTOM 10" OF ALL DOORS EXTENDING THE FULL WIDTH SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CBC 2022 11B-404.2.10
15. MAXIMUM EFFORT TO OPERATE ALL DOORS SHALL NOT EXCEED 5 LBS. FOR BOTH EXTERIOR AND INTERIOR DOORS. FIRE DOORS SHALL NOT EXCEED 15 LBS. CBC 2022 11B-404.2.9
16. REFER TO SPECIFICATION SECTION 08 71 00(VERIFY) FOR DOOR HARDWARE INFORMATION

ABBREVIATIONS

ALUM	ALUMINUM
FF	FACTORY FINISH
HM	HOLLOW METAL
HC	HOLLOW CORE
GALV	GALVANIZED
STL	STEEL
PSG	PAINT: SEMI-GLOSS
(E)	EXISTING

DOOR TYPES



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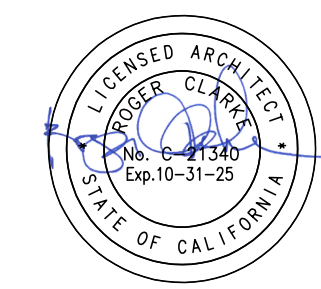
DOOR SCHEDULE

A-8.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS				CEILING				REMARKS	ROOM NO.							
		MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH			COLOR						
100	KITCHEN	EPOXY	EPOXY-1	EPOXY	EPOXY-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	ACT/GWB	FF/PSG	ACT-1/P-2	FLOOR: EPOXY 6" INTEGRAL COVE BASE/ FRP: FULL PANEL 4'X8'	100
101	DRY STORAGE	EPOXY	EPOXY-1	EPOXY	EPOXY-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	ACT	FF	ACT-1	FLOOR: EPOXY 6" INTEGRAL COVE BASE/ FRP: FULL PANEL 4'X8'	101
102	CLOSET	EPOXY	EPOXY-1	EPOXY	EPOXY-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	GWB	PSG	P-1	FLOOR: EPOXY 6" INTEGRAL COVE BASE/ WALLS: PER FOOD SERVICE DRAWINGS	102
103	WALK-IN COOLER	EPOXY	EPOXY-1	EPOXY	EPOXY-1	-	-	-	-	-	-	-	-	-	-	-	-	UOS	-	-	FLOOR: EPOXY 6" INTEGRAL COVE BASE/ WALLS: PER FOOD SERVICE DRAWINGS	103
104	WALK-IN FREEZER	EPOXY	EPOXY-1	EPOXY	EPOXY-1	-	-	-	-	-	-	-	-	-	-	-	-	UOS	-	-	FLOOR: EPOXY 6" INTEGRAL COVE BASE/ WALLS: PER FOOD SERVICE DRAWINGS	104
107	CUSTODIAL CLOSET	CONC	CONC-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP	FF	FRP-1	FRP: FULL PANEL 4'X8 AT MOP SINK ELEVATION 1 : T-1 @ DRINKING FOUNTAIN/ BASE:"NEW" RUBBER BASE ON WEST WALL TO MATCH EXISTING/ P-1-6 AT CUSTOM PAINTED GRAPHIC PROVIDED BY ARCHITECT	107
108	MULTI-PURPOSE/CAFETERIA	(E)	(E)	TB	TB-1	T	FF	T-1	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)		108
109	STAGE																					109



AGENCY APPROVAL
FIG No: 0000000000000000

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COLORS, MATERIALS & FINISHES LEGEND

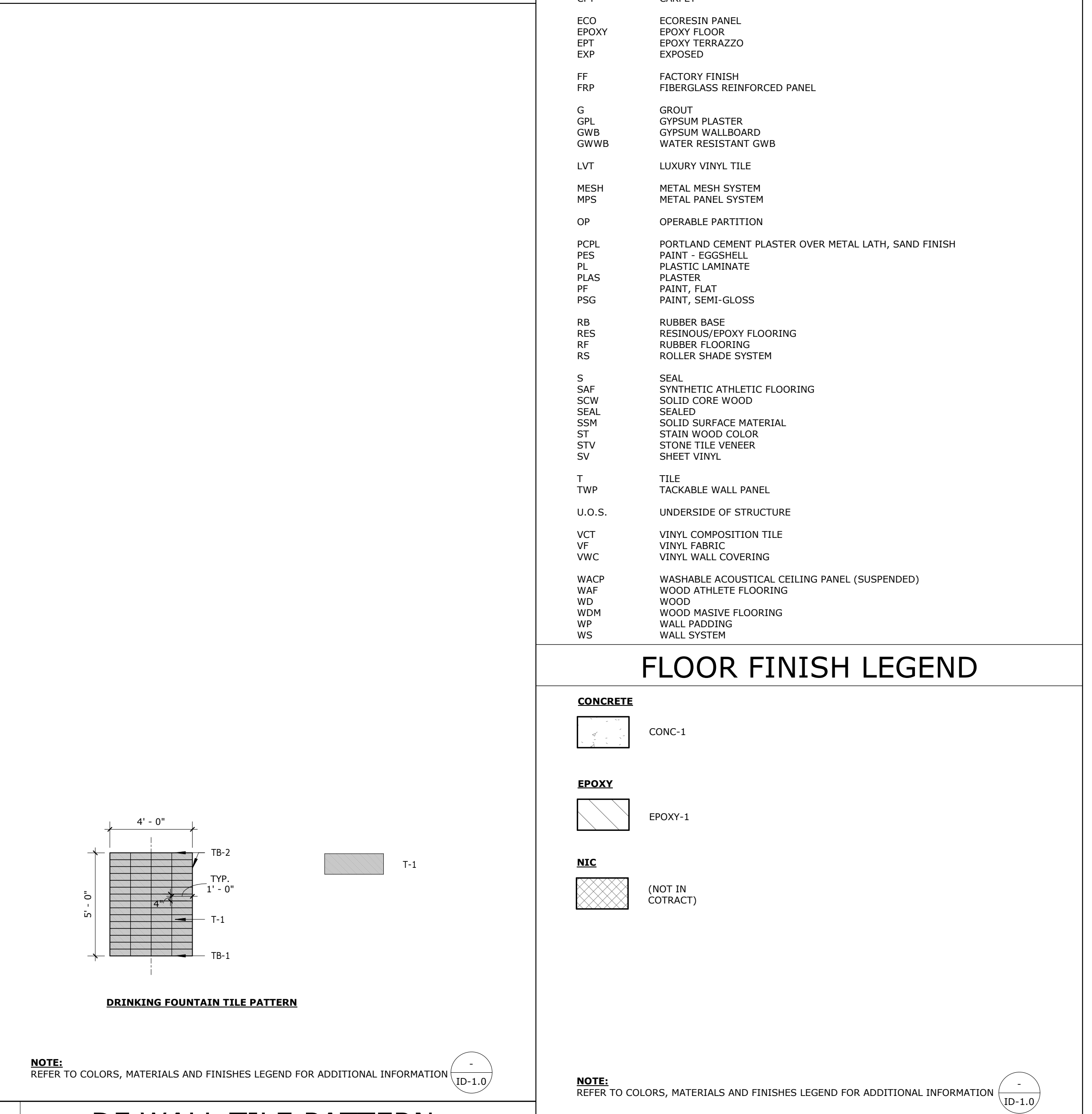
ITEM	MATERIAL	LOCATION	ITEM	MATERIAL	LOCATION
03 35 11 - CONCRETE FLOOR FINISHES	SEALED NATURAL CONCRETE	CUSTODIAL	10 51 13 - METAL LOCKERS	KOROSEAL, KOROGUARD CORNER GUARD #GS10, STAINLESS STEEL TYPE 304 W/ #4 SATIN FINISH, ADHESIVE MOUNTED (NO TAPE OR SCREWS), 2" LEG	KITCHEN
04 20 00 - UNIT MASONRY		TYPICAL	10 51 13 - METAL LOCKERS	KOROSEAL, KOROGUARD CORNER GUARD #GS10, STAINLESS STEEL TYPE 304 W/ #4 SATIN FINISH, ADHESIVE MOUNTED (NO TAPE OR SCREWS), 2" LEG	SITE CONCRETE, ENTRY STAIR, RAMP
06 83 16 - FIBERGLASS REINFORCED PANELING		KITCHEN/ CUSTODIAN	12 13 13 - SITE CONCRETE		TYPICAL
07 42 00 - PERFORATED SHEET METAL PANELS		FENCING @ SERVICE YARD	CONC-2 SITE CONCRETE TO MATCH EXISTING		TYPICAL
09 24 00 - CEMENT PLASTERING		FOOD SERVICE	32 17 23 - PAVEMENT MARKINGS		TYPICAL
08 33 13 - COLLING COUNTER DOORS		TYPICAL/ PLASTER CEILING	AP-1 VESTA PAINT, ON-LINE FLAT #6700 'WHITE' (STANDARD)		TYPICAL EXTERIOR BENCHES
09 30 00 - TILING		TILE @ DRINKING FOUNTAIN	OSF-1 NEW METAL FENCE TO MATCH P-13		ACCENT EXTERIOR BENCHES
T-1 DAL TILE, COLOR MATCH, 'AZURE' #CU48 4"X12", 5/16" THICKNESS, HORIZONTAL STACKED INSTALL (MATTE FINISH)		DRINKING FOUNTAIN BASE	CONC-3 CONCRETE W/ DAVIS COLORS, 'GRAPHITE' (CARBON) #8084 CONCRETE PIGMENT		
09 30 00 - TILING (ACCESSORY)		TOP CAP/SIDES TRIM @ TILE AT DRINKING FOUNTAIN	CONC-4 CONCRETE W/ DAVIS COLORS, 'SAN DIEGO BUFF' #5237 CONCRETE PIGMENT		
TB-1 SCHLITZER, OLEX-AHKA COVE BASE 5/16", 'ALUMINUM BRUSH CHROME' #AHKAB040GB		GROUT @ DRINKING FOUNTAIN TILE WALL			
TB-2 SCHLITZER, JOLLY-AE, J 60 AE, 'ANODIZED ALUMINUM' W/ MATCHING CORNERS PLUG-IN CONNECTION SYSTEM		CEILING @ KITCHEN			
09 30 00 - TILING (GROUT)		TYPICAL BASE @ MPR (WEST WALL)			
GB-1 LATICRETE, PERMACOLOR SELECT, 'TWILIGHT BLUE' #53		FOOD SERVICE - TYPICAL			
09 51 00 - ACOUSTICAL CEILINGS		ACCENT @ EXTERIOR GRAPHICS			
ACT-1 ARMSTRONGS, KITCHEN ZONE SQUARE LAY-IN #672, 24"X48"X5/8" W/ 15/16" PRELUDE XL SUSPENSION SYSTEM, COLOR: 672 'WHITE', 33 CAC		ACCENT @ EXTERIOR GRAPHICS			
09 45 00 - RESILIENT FLOORING (RUBBER BASE)		ACCENT @ EXTERIOR GRAPHICS			
RB-1 BURKE, RUBBER BASE TO MATCH EXISTING		ACCENT @ GRAPHICS, FASCIA			
09 67 00 - FLUID-APPLIED FLOORING		ACCENT @ EXTERIOR GRAPHICS			
EPOXY-1 DURAFLEX, DUR-A-QUARTZ, COLOR: #Q28-27, 1/8"-1/4" THICK EPOXY RESIN FLOORING, LIGHT TEXTURE FOR SLIP RESISTANCE AT PATH OF TRAVELS, SMOOTH UNDER EQUIPMENT, W/ 6" H INTEGRAL COVE BASE		TYPICAL			
09 91 13 - EXTERIOR PAINTING		ACCENT @ MPR GRAPHIC			
P-7 DUNN EDWARDS, 'IGLOO' #DEW379		ACCENT @ MPR GRAPHIC			
P-8 DUNN EDWARDS, 'DECEMBER SKY' #DE6352		ACCENT @ MPR GRAPHIC			
P-9 DUNN EDWARDS, 'GRAY WOLF' #DE6354		ACCENT @ MPR GRAPHIC			
P-10 DUNN EDWARDS, 'BLUE STEEL' #DE6342		ACCENT @ MPR GRAPHIC			
P-11 DUNN EDWARDS, 'STANDFORD STONE' #DET696		ACCENT @ MPR GRAPHIC			
09 91 23 - INTERIOR PAINTING		EXT. & INT. HM DOORS AND FRAMES/ SOLID CORE DOORS			
P-1 DUNN EDWARDS, 'IGLOO' #DEW379		NEW METAL FENCE, RAILINGS, EXISTING METAL FENCES AND RAILINGS			
P-2 DUNN EDWARDS, 'DECEMBER SKY' #DE6352		TYPICAL @ GRAPHICS/ SYMBOLS			
P-3 DUNN EDWARDS, 'GRAY WOLF' #DE6354		TYPICAL @ BACKGROUND			
P-4 DUNN EDWARDS, 'BLUE CHIP' #DES867					
P-5 DUNN EDWARDS, 'BELOW ZERO' #DES835					
P-6 DUNN EDWARDS, 'STANDFORD STONE' #DET696					
09 96 00 - HIGH-PERFORMANCE COATINGS					
P-12 TMEKC, CUSTOM COLOR TO MATCH DUNN EDWARDS, 'BLUE STEEL' #DE6342					
P-13 TMEKC, CUSTOM COLOR TO MATCH DUNN EDWARDS, 'BLACK' #DEA002					
10 14 00 - SIGNAGE					
SIGN-1 CUSTOM COLOR TO MATCH P-2					
SIGN-2 CUSTOM COLOR TO MATCH P-10					
10 26 00 - WALL AND DOOR PROTECTION					

- ### FINISH NOTES
- ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 8, & 10, CFC AND CCR TITLE 19 AND STATE OF CALIFORNIA TECHNICAL BULLETIN 117-2013.
 - WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13.
 - ALL ADJACENT DISSIMILAR FINISH MATERIALS TO RECEIVE SEALANT PER MFR INSTRUCTIONS, U.N.O.
 - SEE INTERIOR ELEVATION SHEETS FOR ACCENT PAINT LOCATIONS.
 - ALL EXPOSED STEEL, LOUVERS, ACCESS PANELS AND WALL GRILLES TO BE PAINTED TO MATCH ADJACENT SURFACE, U.N.O.
 - TOILET ROOM, TOILET ROOM VESTIBULES, AND FOOD SERVICE AREA WALLS AND CEILINGS NOT COVERED BY EITHER TILE OR F.P. TO HAVE MOISTURE RESISTANT GYPSUM BOARD, U.N.O.
 - COORDINATE FINISHES WITH MECHANICAL FOR PLUMBING FIXTURES.
 - FOR EXTENT AND PATTERN OF CEILING FINISH, SEE REFLECTED CEILING PLAN. REFER TO RCP GENERAL NOTE #4 FOR FINISH AT U.O.S.
 - AT COVE BASE, PROVIDE CONTINUOUS 3/8" RADIUS
 - FOR TYPICAL CERAMIC TILE DETAILS, REFER TO DETAIL AD-2.0
 - SEE SHEET AD-6.0 FOR ALL TRANSITION DETAILS IF IT IS NOT A FLUSH TRANSITION BETWEEN ANY TWO FLOOR FINISHES.
 - ALL WALL BASE SHOULD BE INSTALLED USING WHOLE UNITS. NO PIECE SHALL BE SMALLER THAN 1'-0". PREFORMED CORNERS STANDARDIZED.
 -
 - ALL FLOOR FINISHES SHALL BE STABLE, FIRM, & SLIP RESISTANT PER CBC SECTION 11B-302.1.
 -
 - ALL FLOOR FINISHES SHALL EXTEND BELOW ACCESSIBLE WORKSTATIONS, SINKS, ETC. FOR THE REQUIRED TOE/KNEE CLEARANCE.
 - EPOXY FLOORING AT FOOD SERVICE AREAS IS GREASE/ ACID RESISTANT AND USDA APPROVED.
 - REFER TO CORRESPONDING SPECIFICATIONS FOR BURNING CHARACTERISTICS AND TESTING REQ.

FINISH ABBREVIATIONS

ACP	ACOUSTICAL CEILING PANEL (SUSPENDED)
ACT	ACOUSTICAL CEILING TILE
AWP	ACOUSTIC WALL PANEL
CG	CORNER GUARD
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPL	CEMENT PLASTER
CPT	CARPET
ECO	ECOREFIN PANEL
EPOXY	EPOXY FLOOR
EPT	EPOXY TERRAZZO
EXP	EXPOSED
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PANEL
G	GROUT
GPL	GYPSUM PLASTER
GWB	GYPSUM WALLBOARD
GWBB	WATER RESISTANT GWB
LVT	LUXURY VINYL TILE
MESH	METAL MESH SYSTEM
MPS	METAL PANEL SYSTEM
OP	OPERABLE PARTITION
PCPL	PORTLAND CEMENT PLASTER OVER METAL LATH, SAND FINISH
PS	PAINT - EGGSHELL
PL	PLASTIC LAMINATE
PLAS	PLASTER
PF	PAINT, FLAT
PSG	PAINT, SEMI-GLOSS
RB	RUBBER BASE
RES	RESINUS/EPPOXY FLOORING
RF	RUBBER FLOORING
RS	ROLLER SHADE SYSTEM
S	SEAL
SAF	SYNTHETIC ATHLETIC FLOORING
SCW	SOLID CORE WOOD
SEAL	SEALED
SSM	SOLID SURFACE MATERIAL
ST	STAIN WOOD COLOR
STV	STONE TILE VENEER
SV	SHEET VINYL
T	TILE
TWP	TACKABLE WALL PANEL
U.O.S.	UNDERSIDE OF STRUCTURE
VCT	VINYL COMPOSITION TILE
VF	VINYL FABRIC
VWC	VINYL WALL COVERING
WACP	WASHABLE ACOUSTICAL CEILING PANEL (SUSPENDED)
WD	WOOD ATHLETE FLOORING
WDM	WOOD MASSIVE FLOORING
WP	WALL PADDING
WS	WALL SYSTEM

FINISHES PLAN



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DATE	BY	DESCRIPTION

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

DF WALL TILE PATTERN

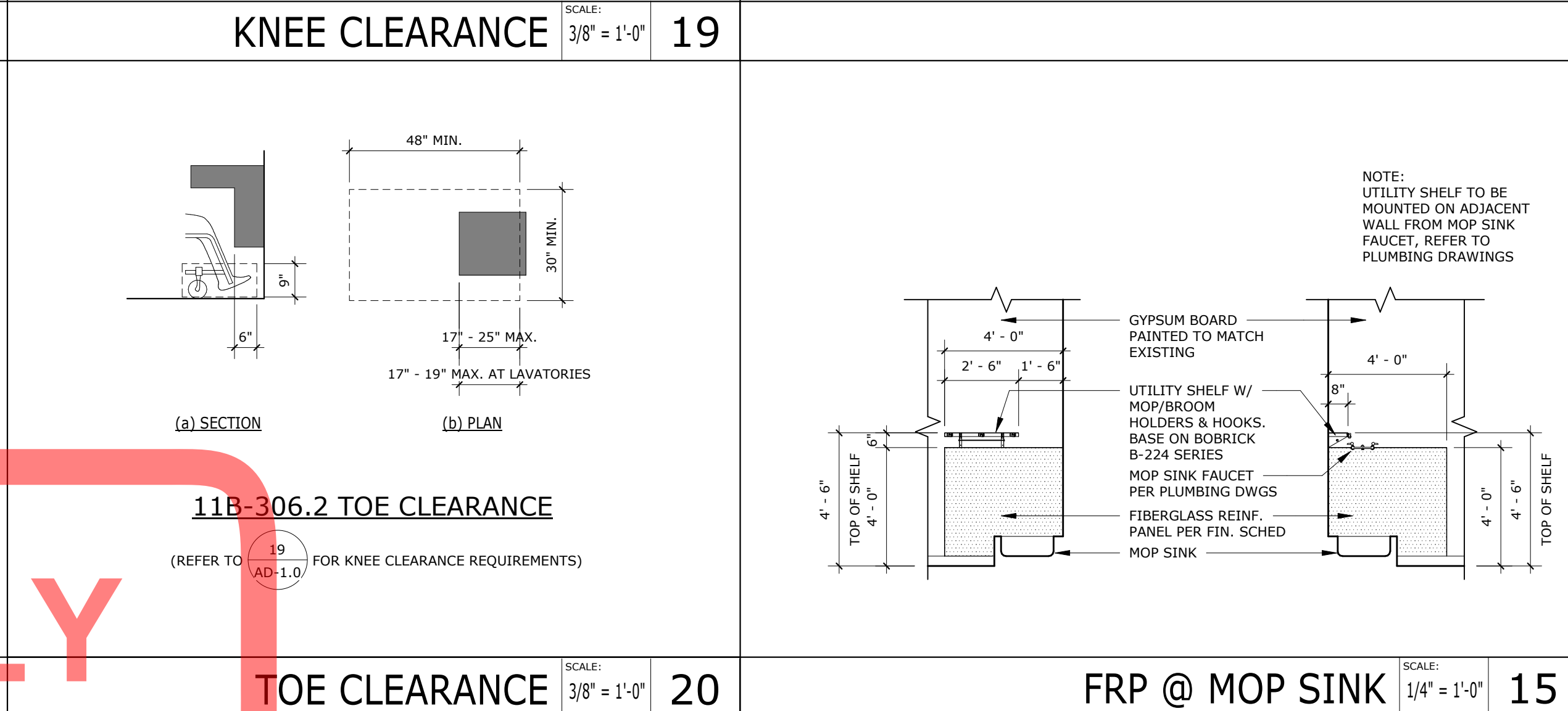
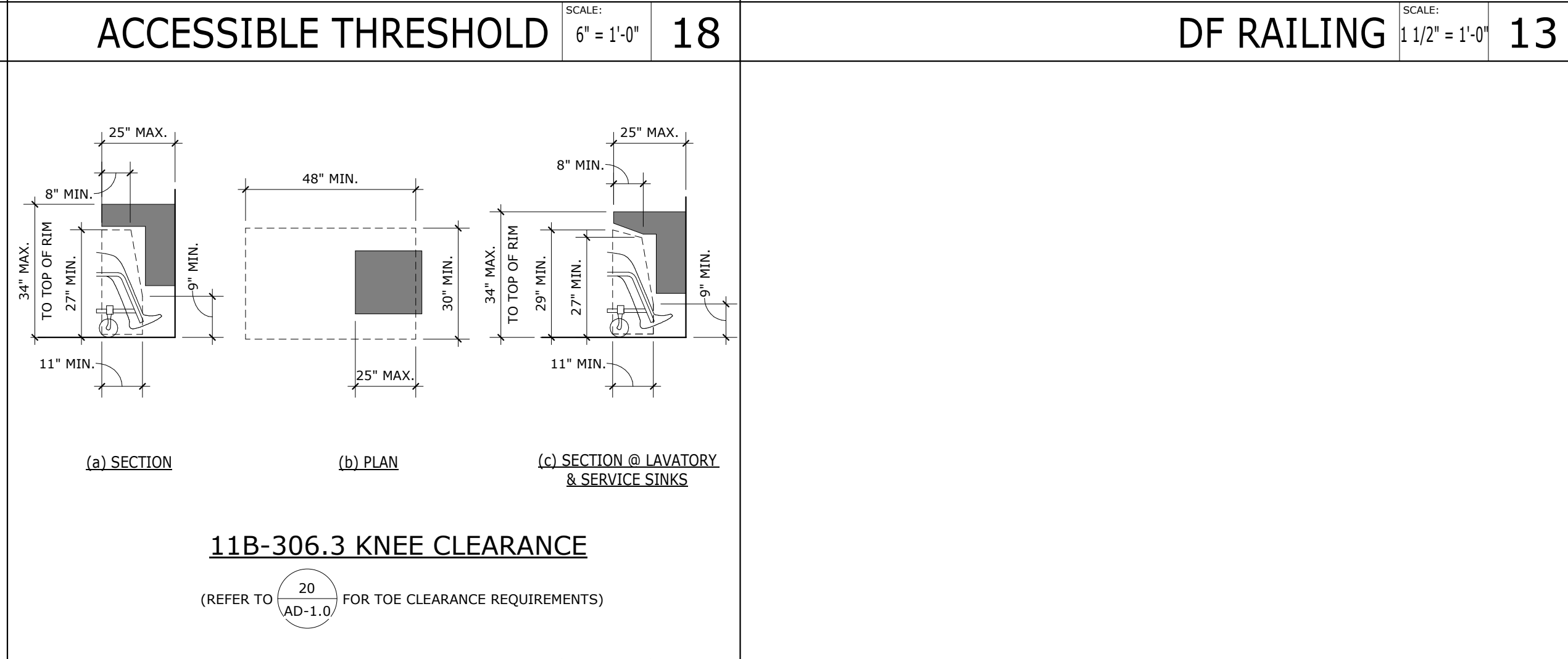
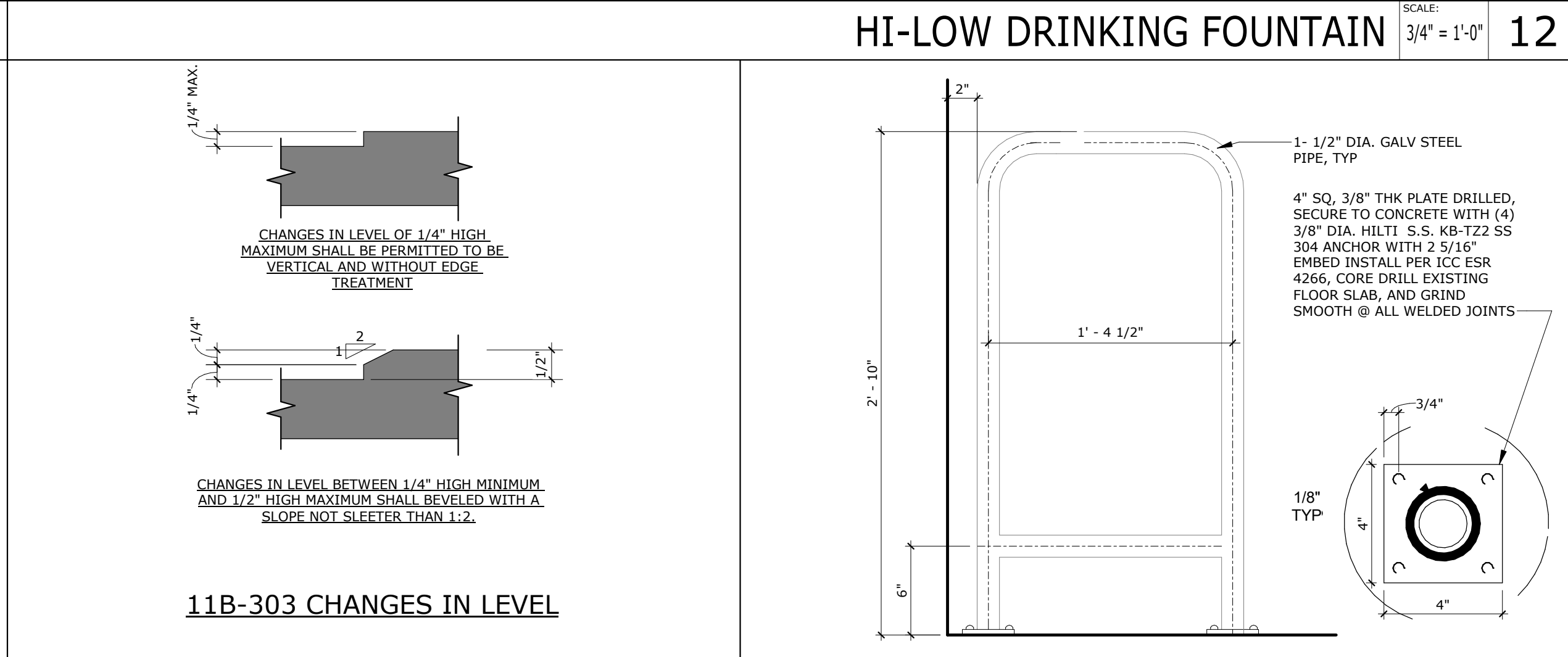
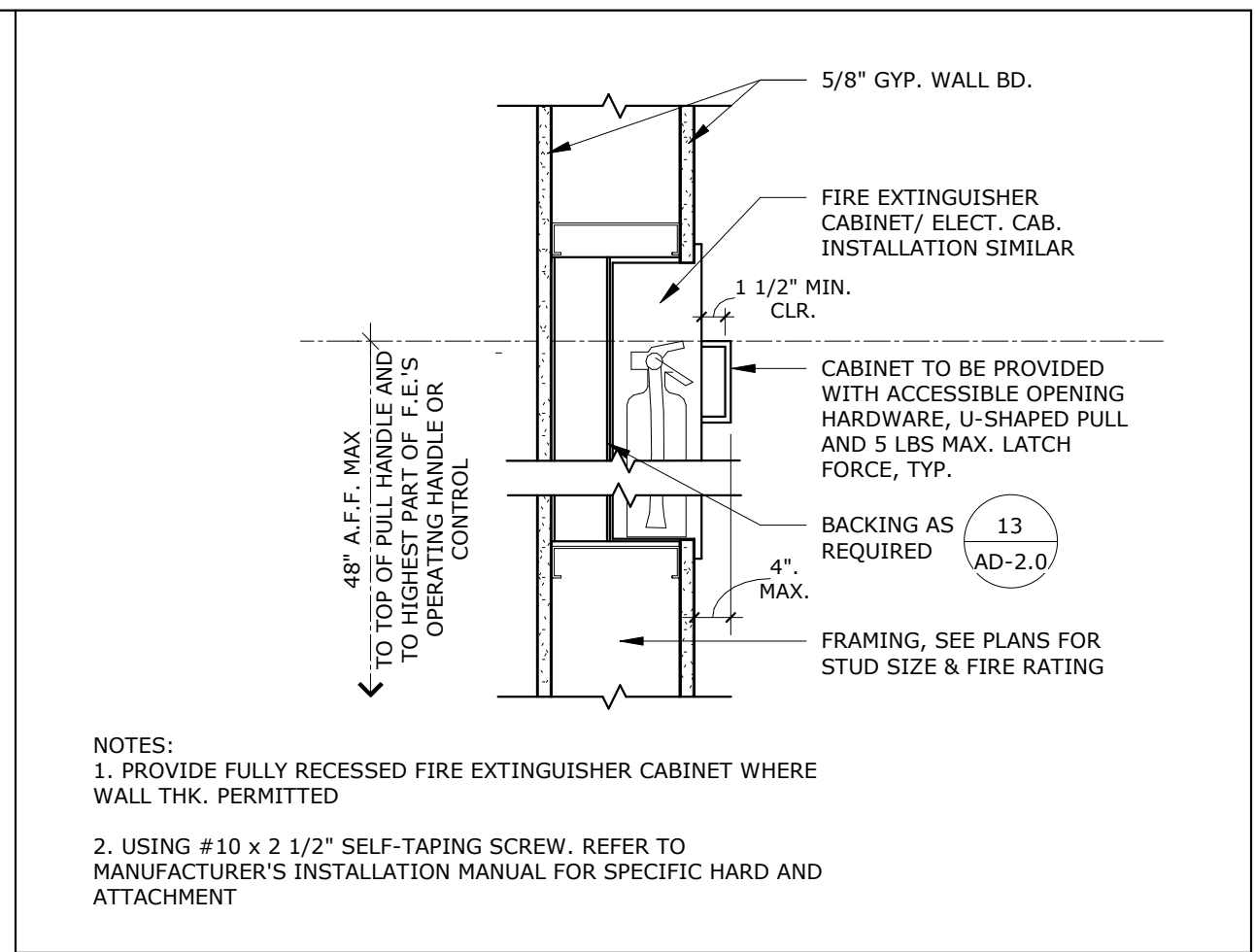
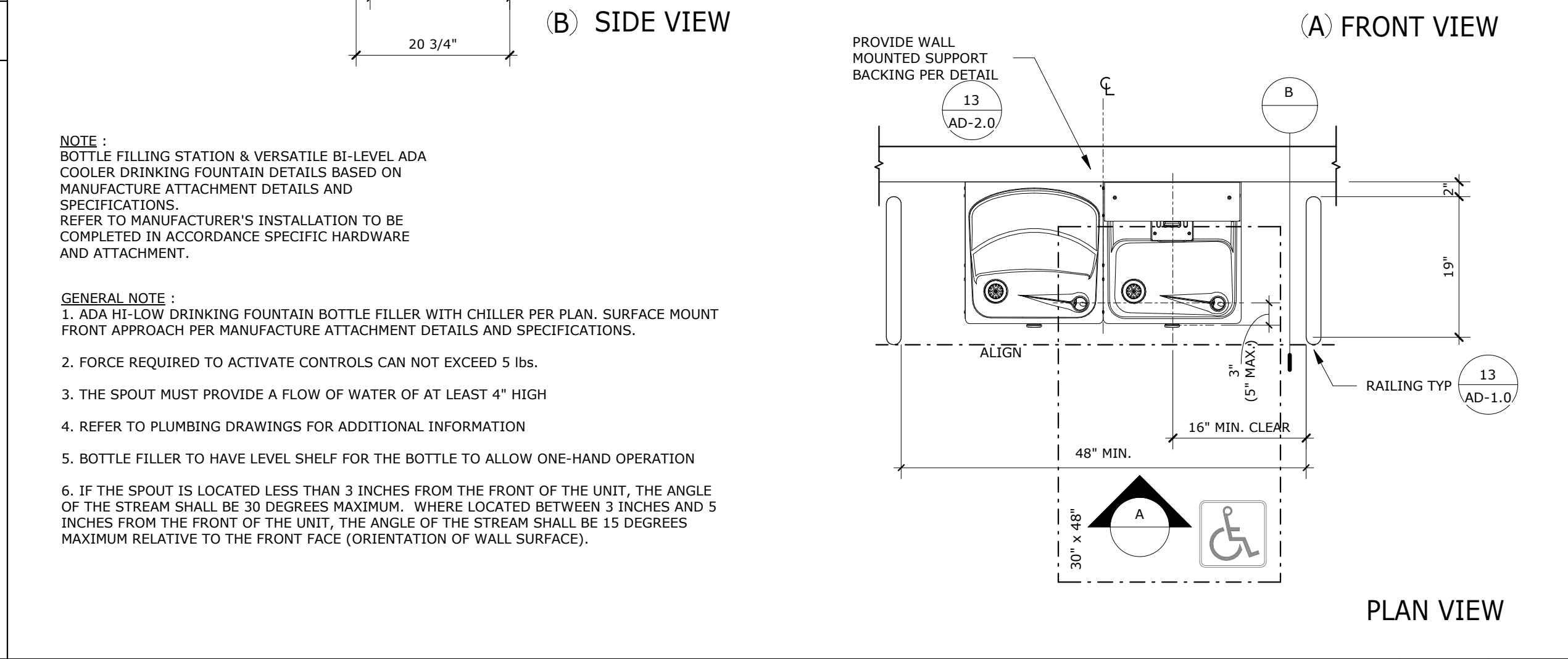
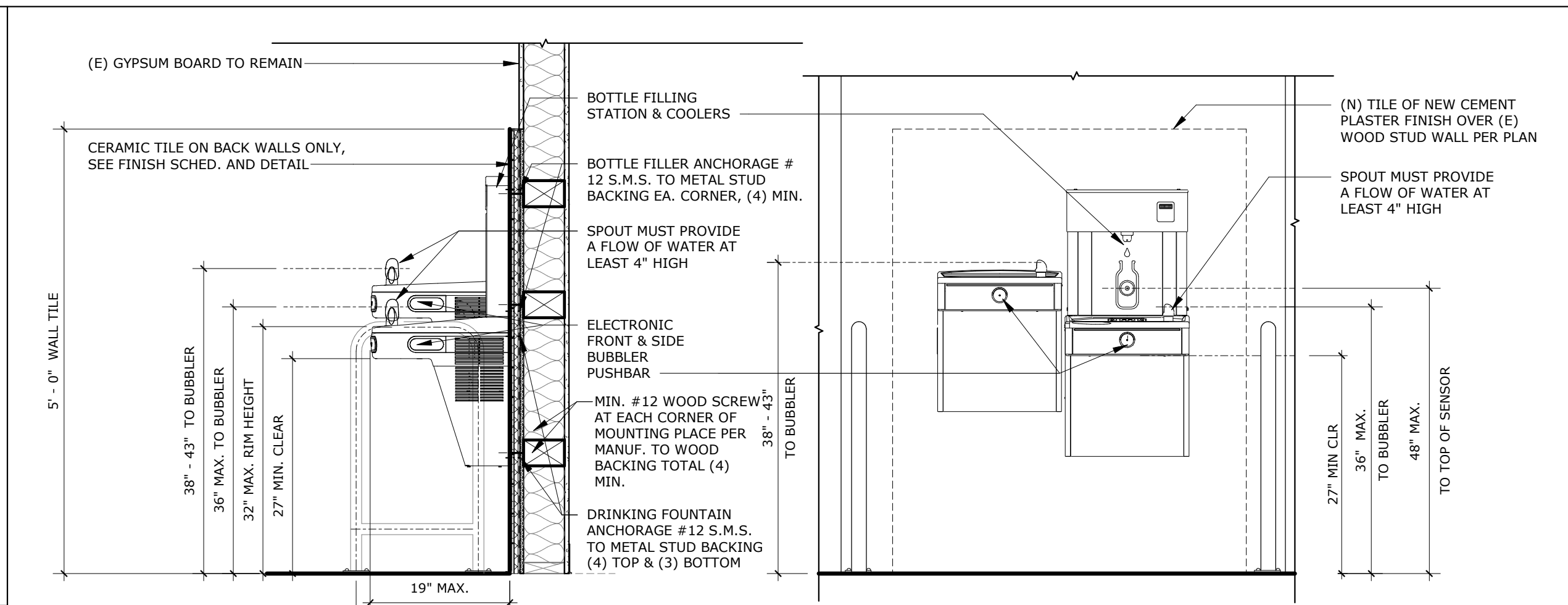
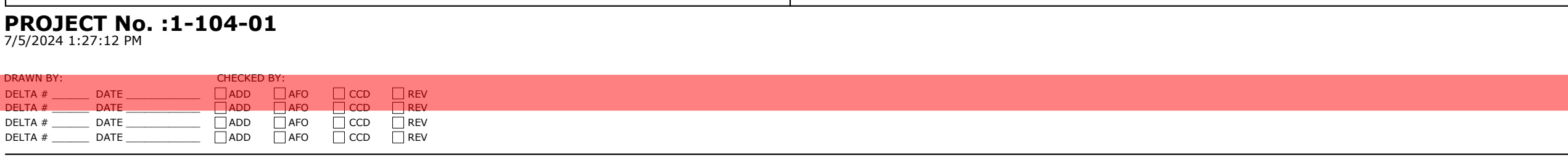
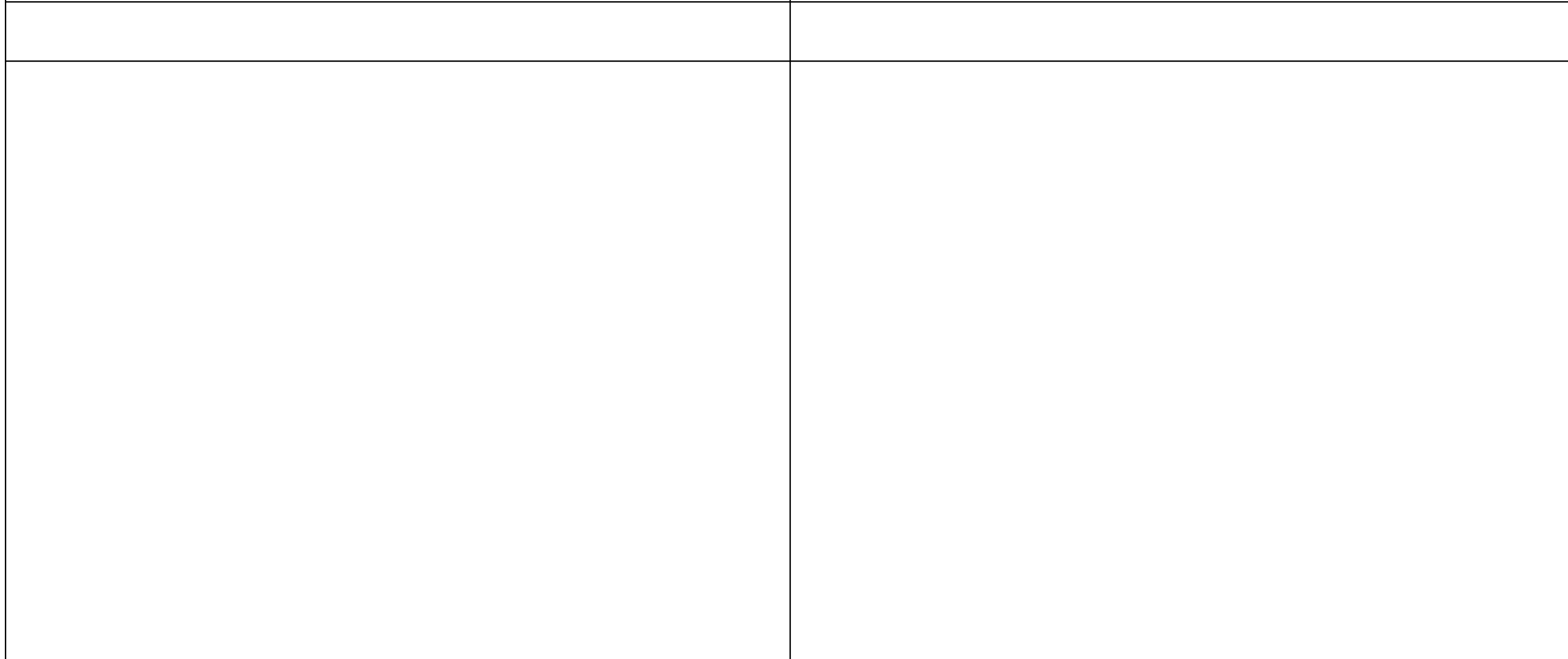
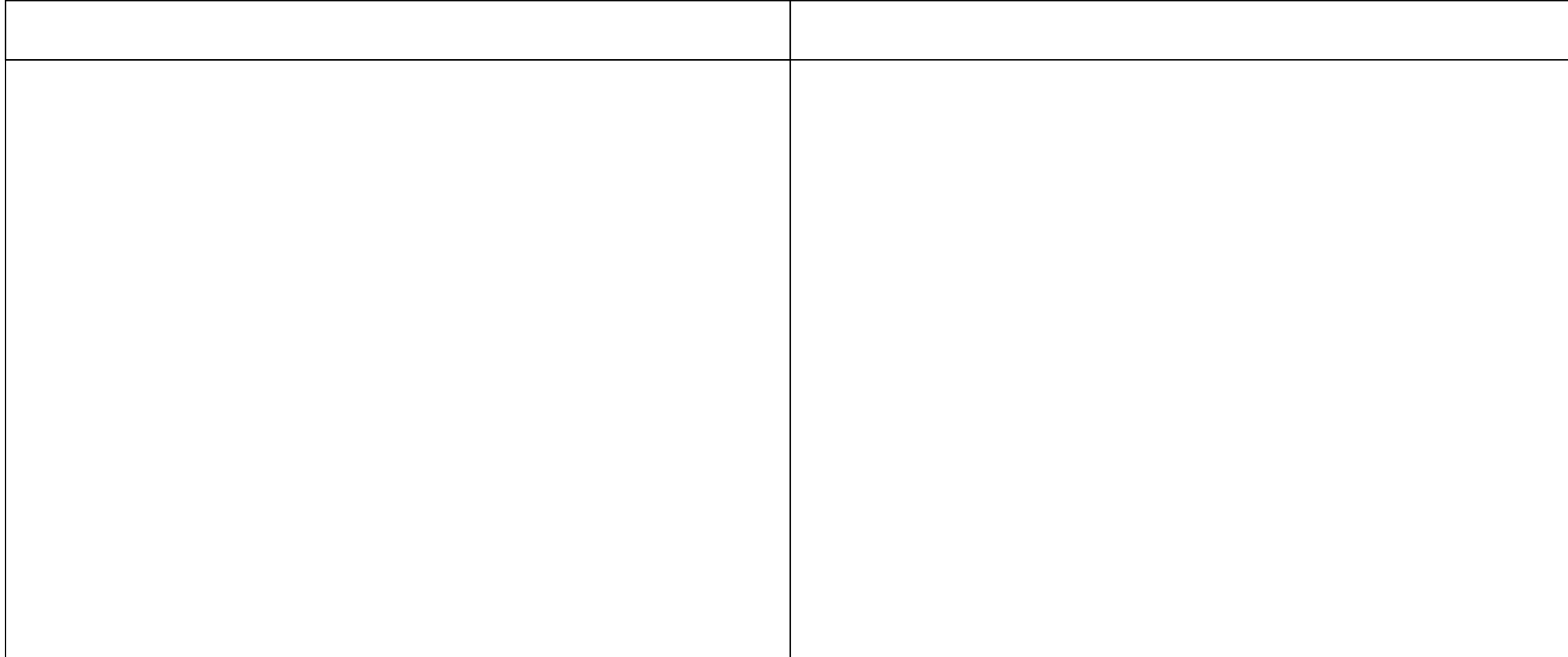
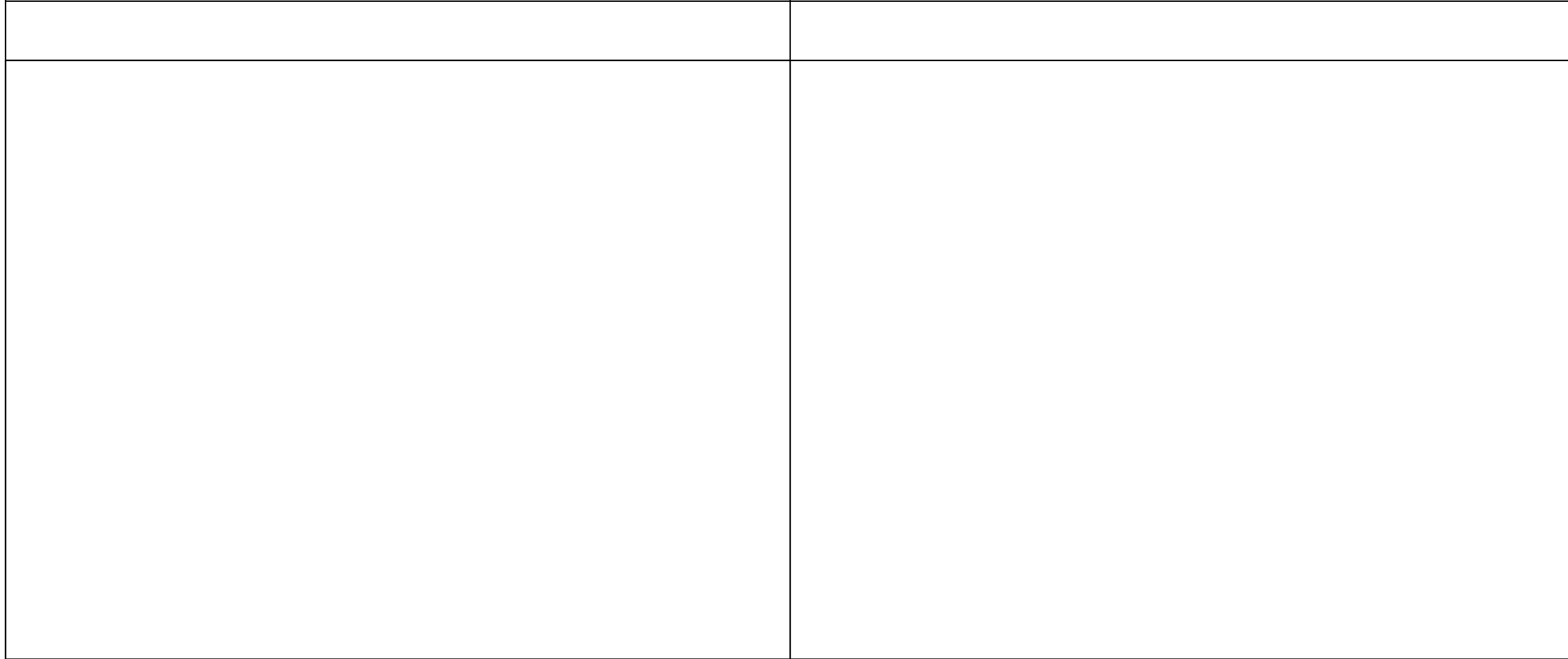
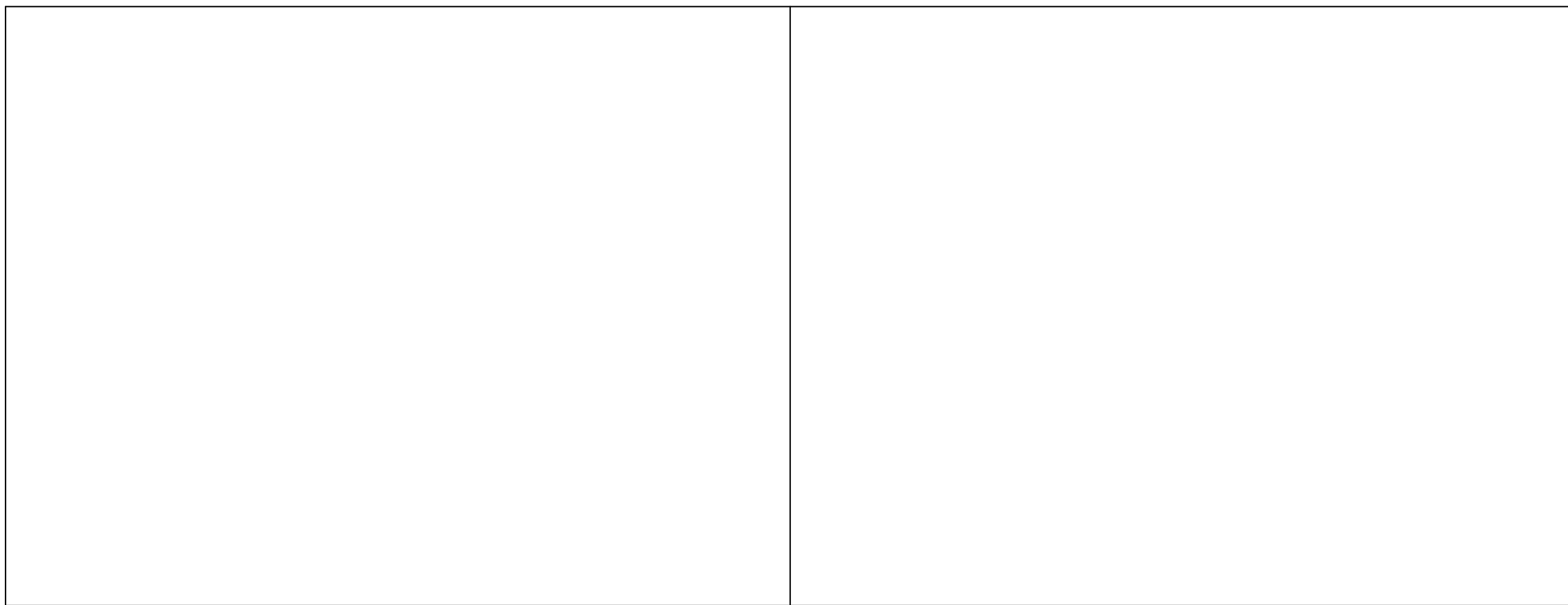
KITCHEN UPGRADES AT JOYCE E.S.

FINISHES PLAN / SCHED & CMF LEGEND

ID-1.0

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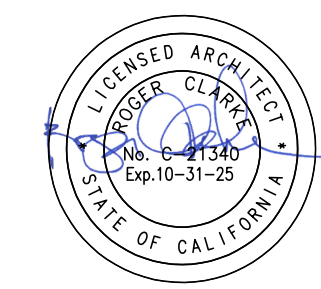
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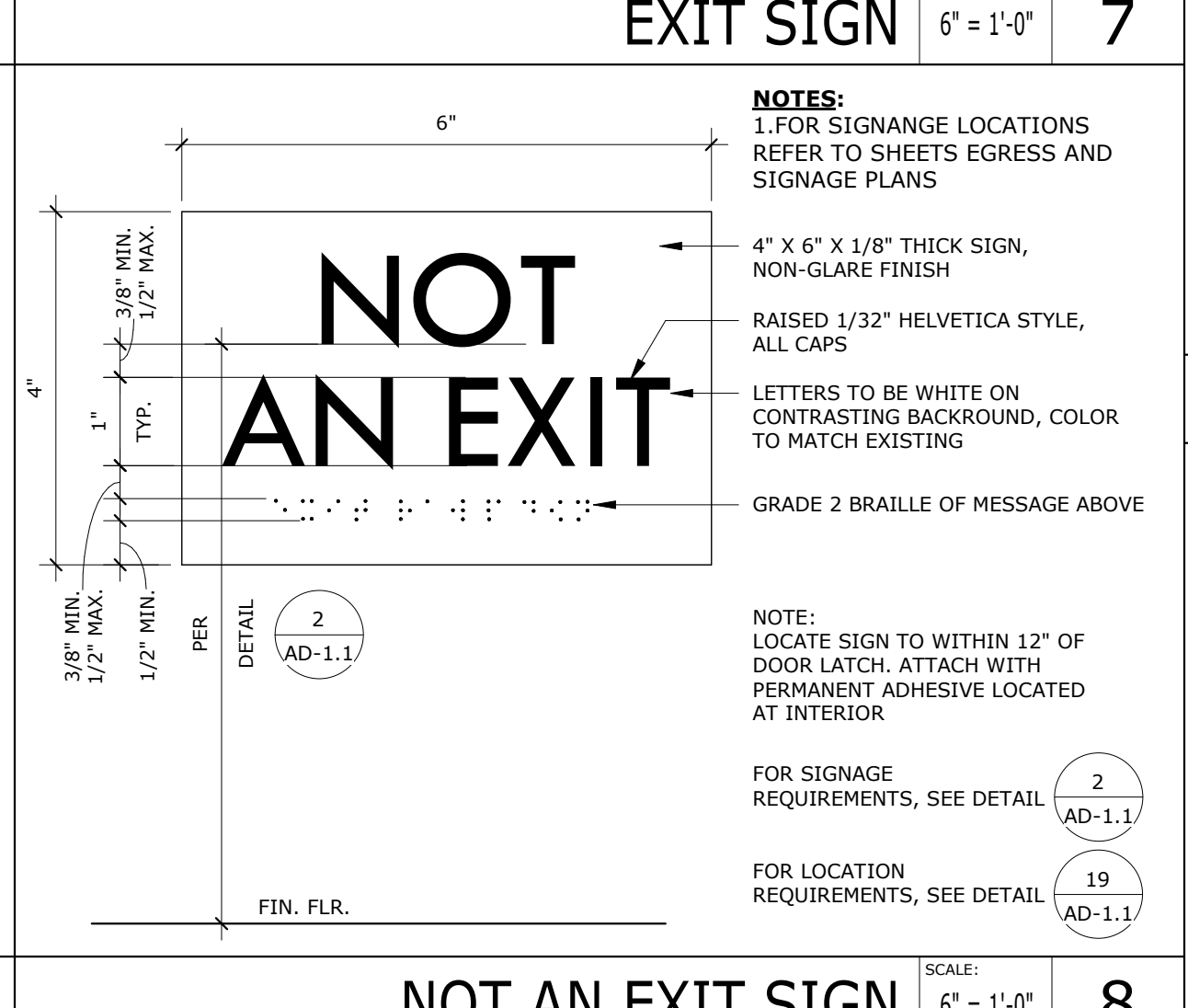
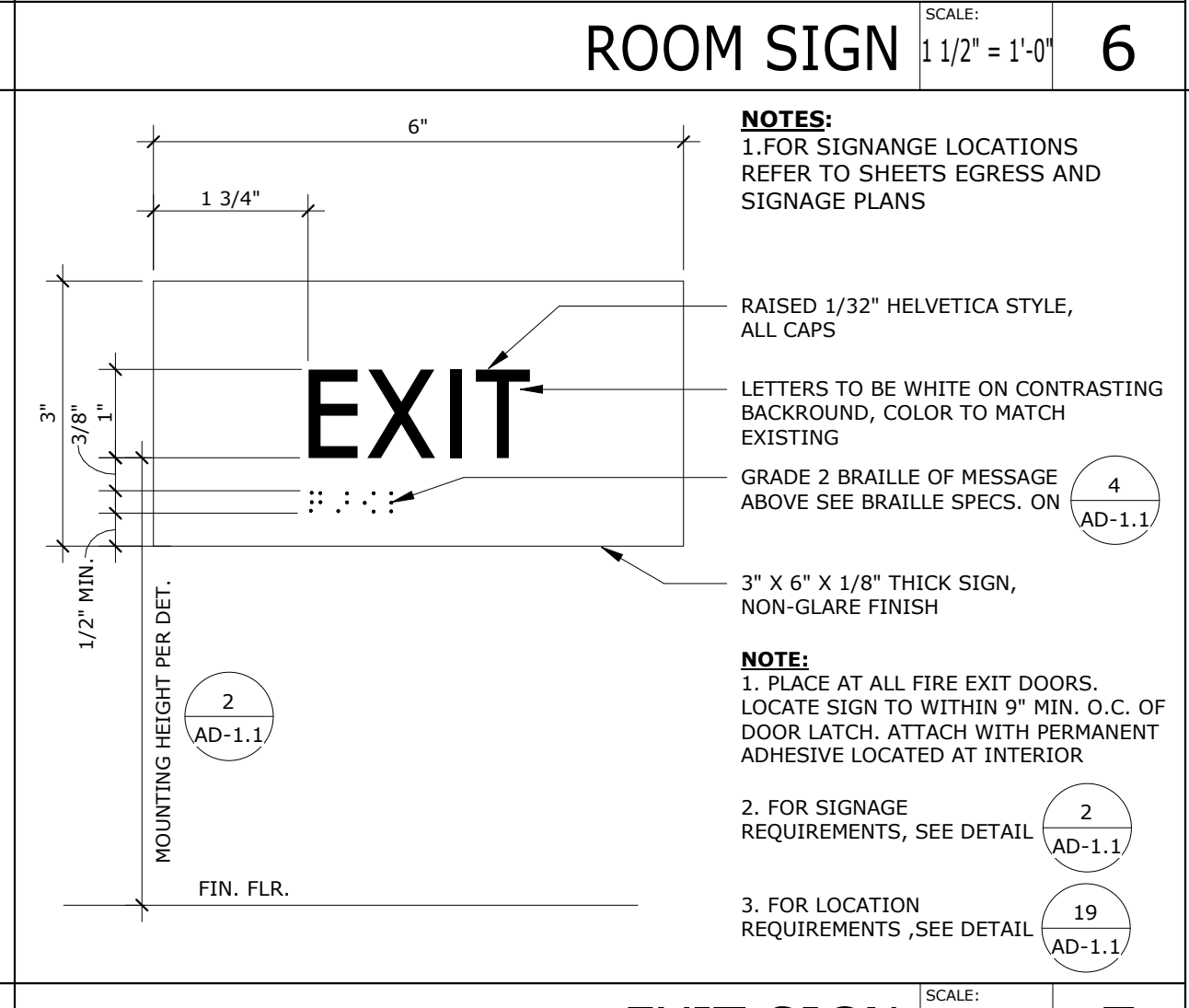
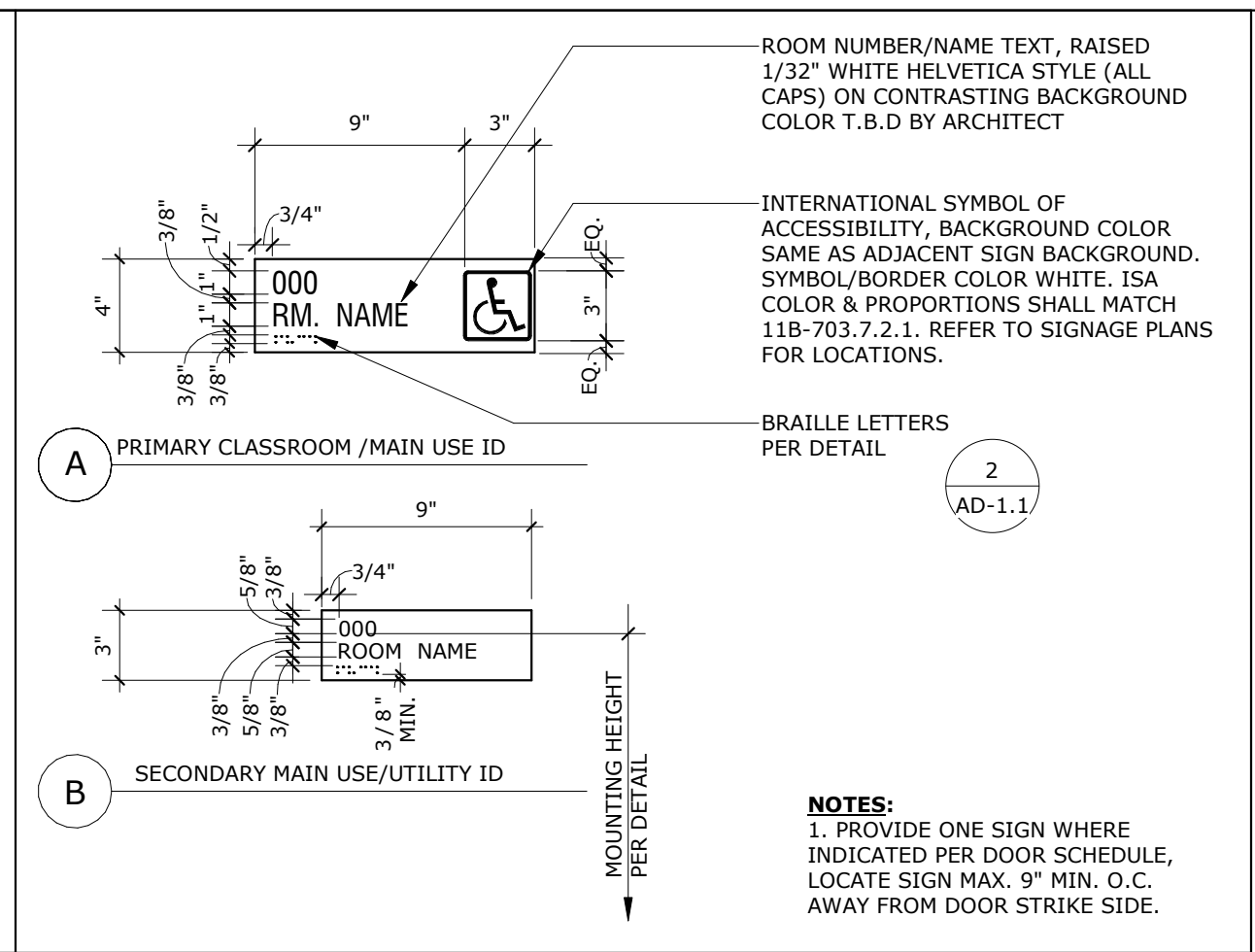
**ACCESSIBILITY
DETAILS**

AD-1.0



AGENCY APPROVAL
 (P) NO: 0000000000000000

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 CLARKE
 ARCHITECTS**



CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SAN SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE CHARACTER HEIGHT: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

PROPORTIONS: PROPORTIONS FOR RAISED CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.

CHARACTER SPACING: CHARACTER SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.2.7 AND 11B-703.2.8

LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MIN. AND 170 PERCENT MAX. OF THE RAISED CHARACTER HEIGHT.

TEXT SHALL BE IN A HORIZONTAL FORMAT.

BRAILLE: FOR MORE INFO, SEE DETAIL 4 (AD-1.1)

MOUNTING HEIGHT: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

EDGES & VERTICES ON GEOMETRIC SYMBOLS: EDGES SHALL BE EASED OR ROUNDED @ 1/16" INCH (1.59 MM) OR CHAMFERED @ 1/8" INCH (3.2 MM) MIN & 1/4" INCH (6.4 MM) MAX.

EDGES & VERTICES

1:1 MAX CHARACTER PROPORTIONS
 3:5 MAX CHARACTER PROPORTIONS
 15% MAX STROKE PROPORTIONS

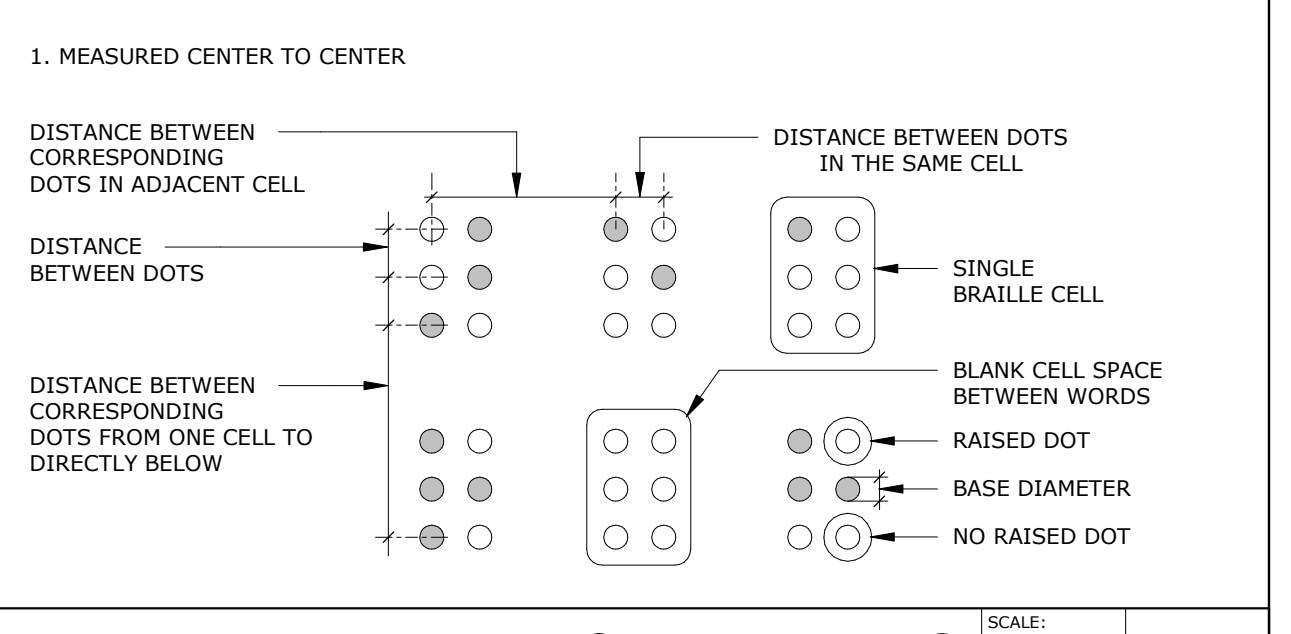
SIGNAGE REQUIREMENTS SCALE: 1" = 1'-0" 2

BRAILLE: 11B-703.3 BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3 AND 11B-703.4

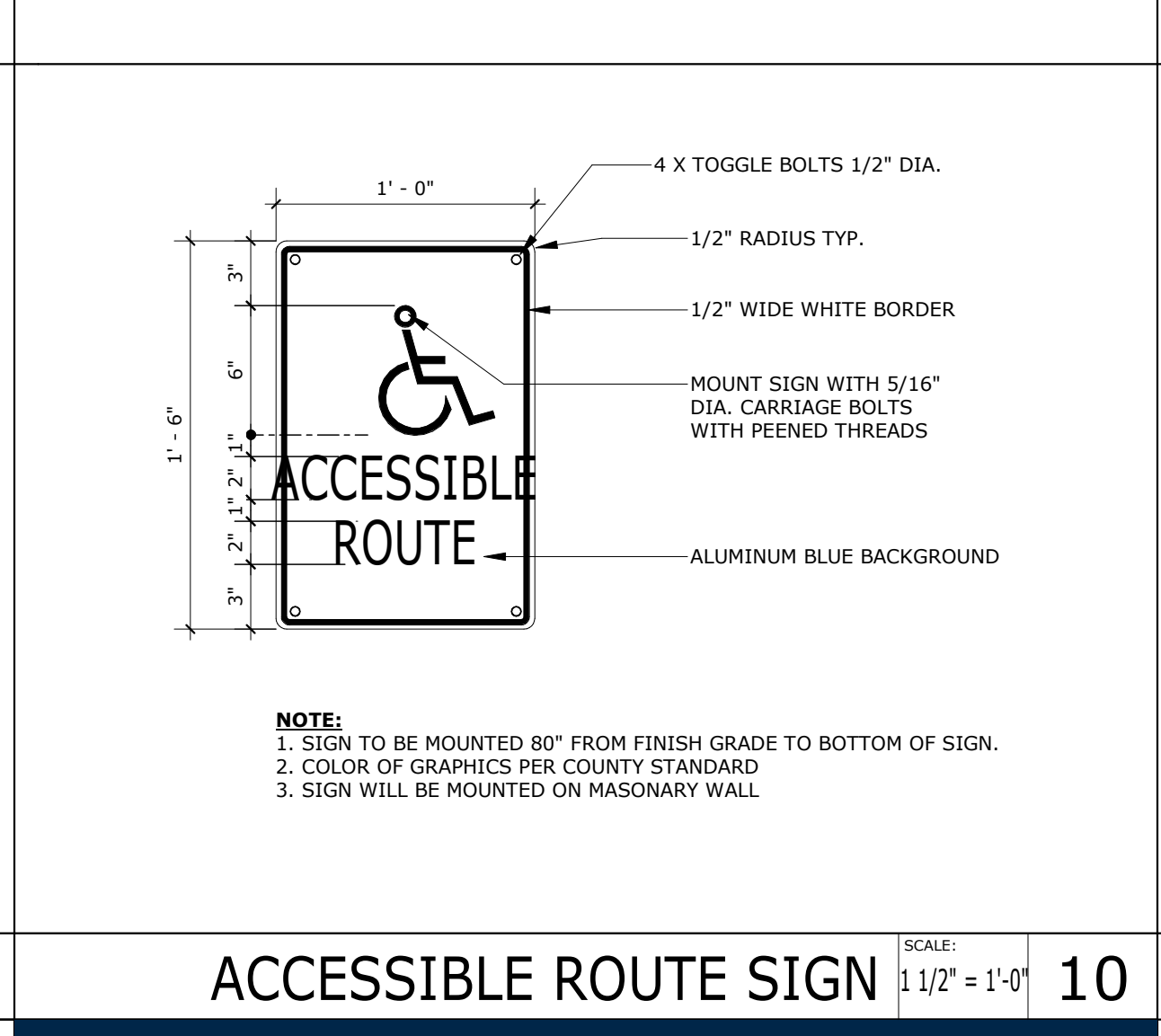
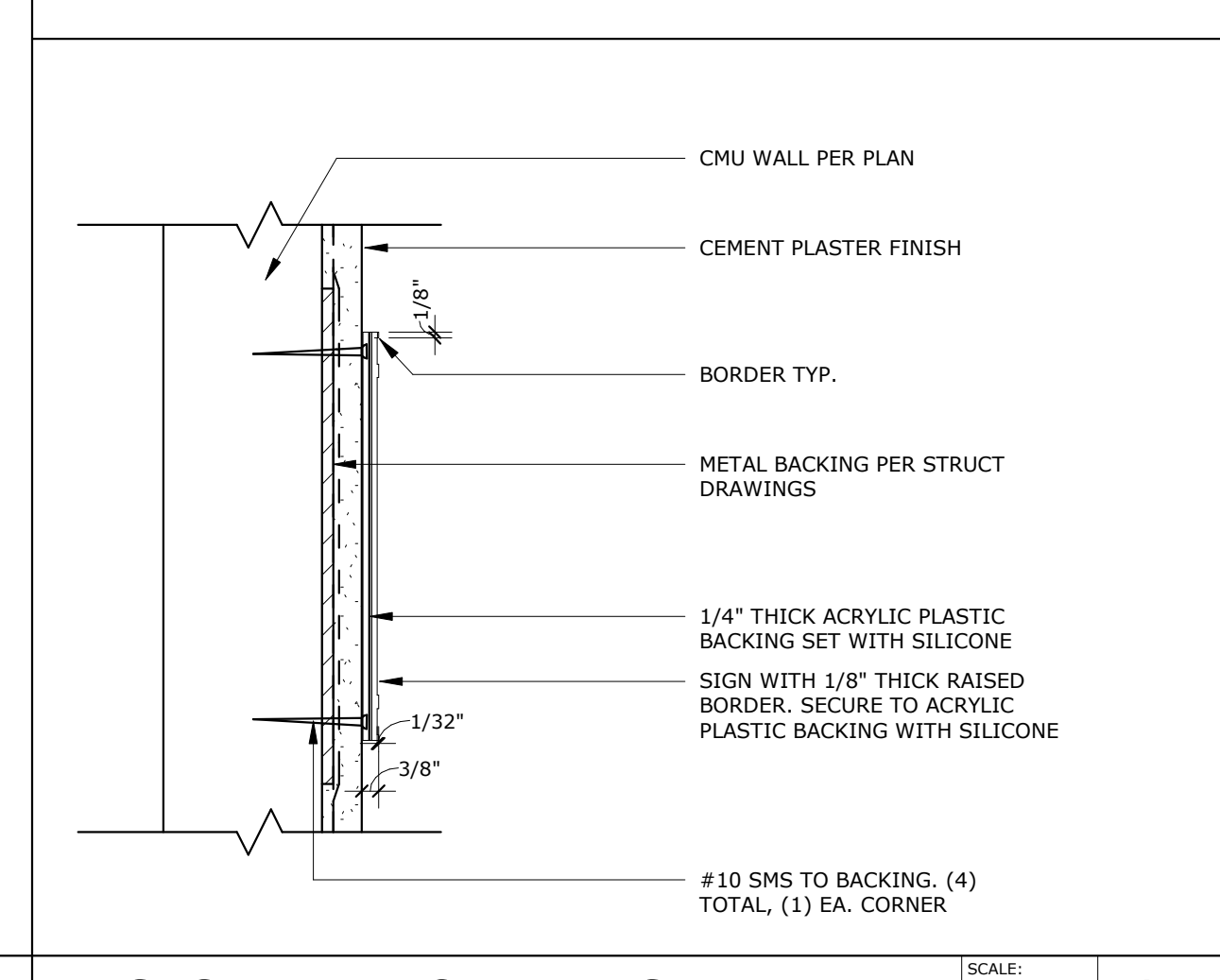
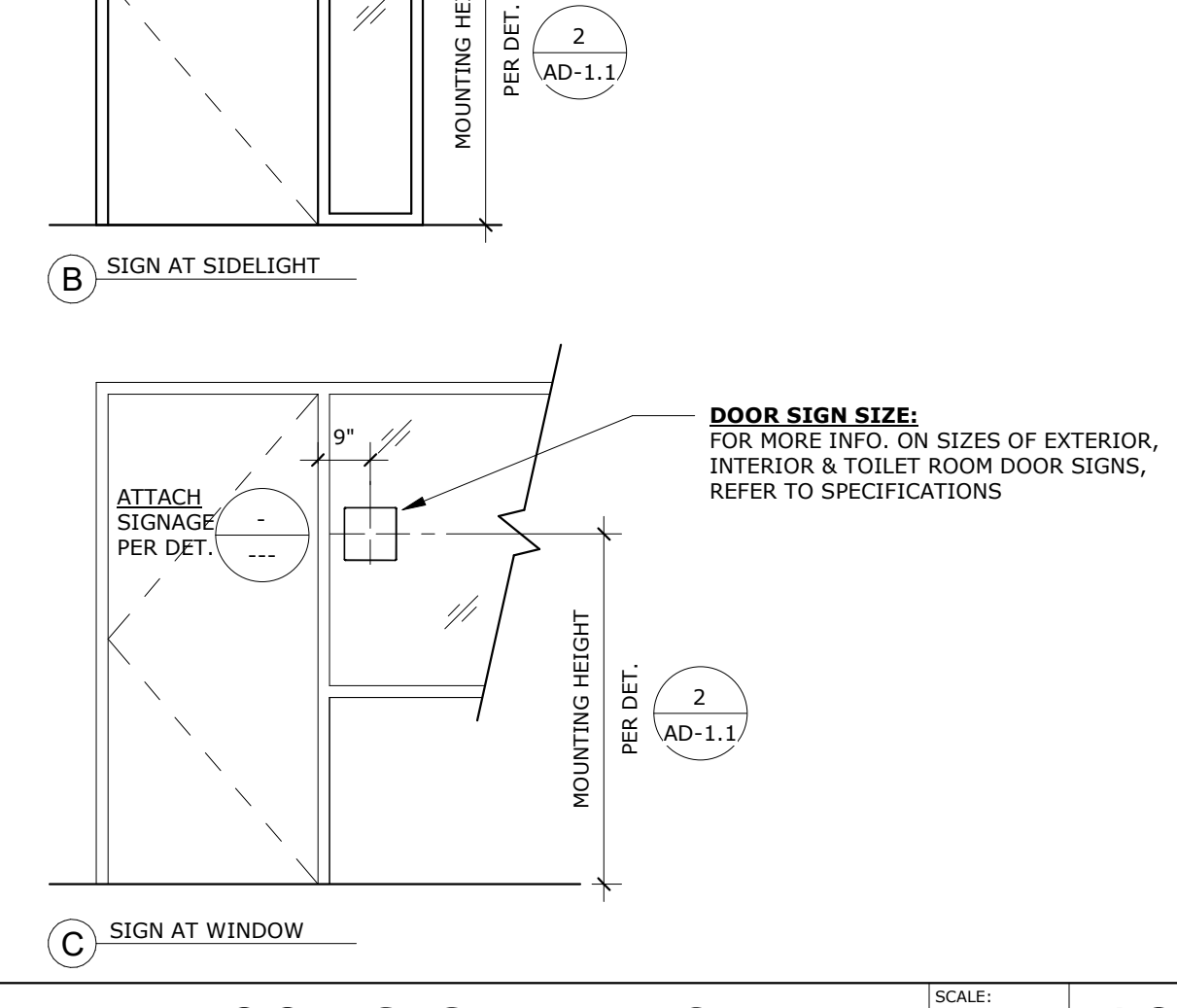
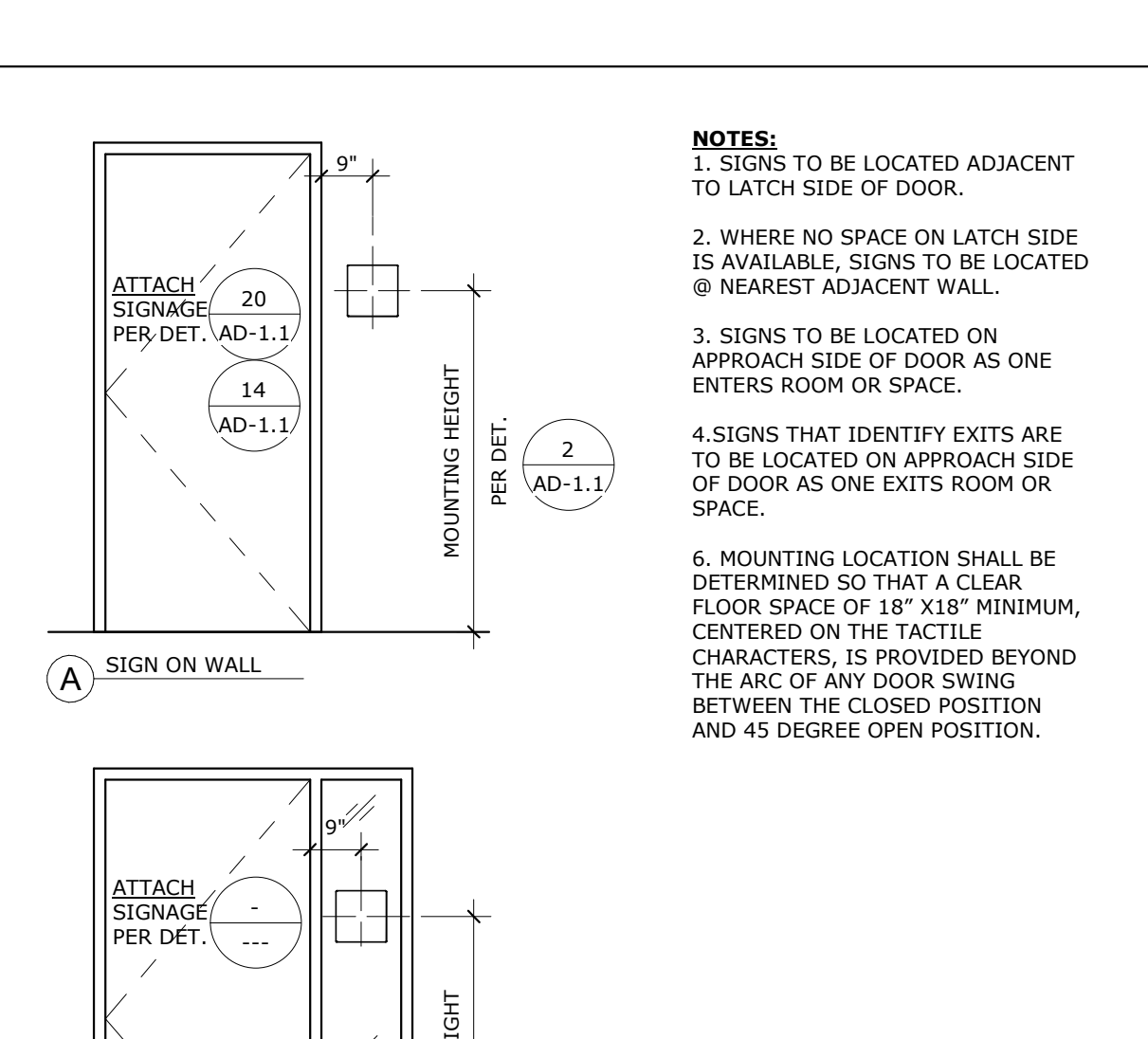
11B-703.3.1 **DIMENSION AND CAPITALIZATION.** BRAILLE DOT SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATOR OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.

11B-703.3.2 **POSITION.** BRAILLE SHALL BE POSITION BELOW THE CORRESPONDING TEXT IN HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" INCH (9.5 MM) MINIMUM AND 1/2" INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

MEASUREMENT RANGE	MINIMUM IN INCHES/MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL ¹	0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELL ¹	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 MM) TO 0.400 (10.2 MM)



BRAILLE REQUIREMENTS SCALE: 1" = 1'-0" 4



ACCESSIBLE ROUTE SIGN SCALE: 1 1/2" = 1'-0" 10

NOTE:
 1. SIGN TO BE MOUNTED 80" FROM FINISH GRADE TO BOTTOM OF SIGN.
 2. COLOR OF GRAPHICS PER COUNTY STANDARD.
 3. SIGN WILL BE MOUNTED ON MASONARY WALL.

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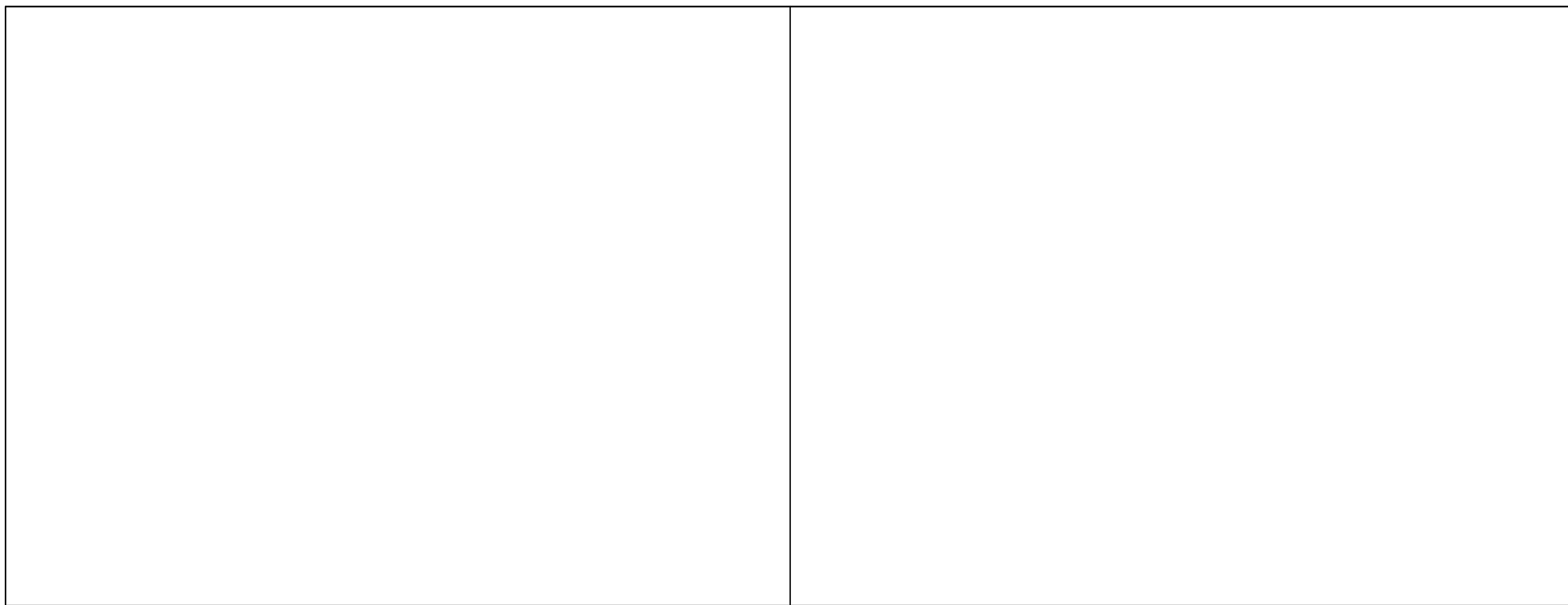
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 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
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SIGNAGE DETAILS

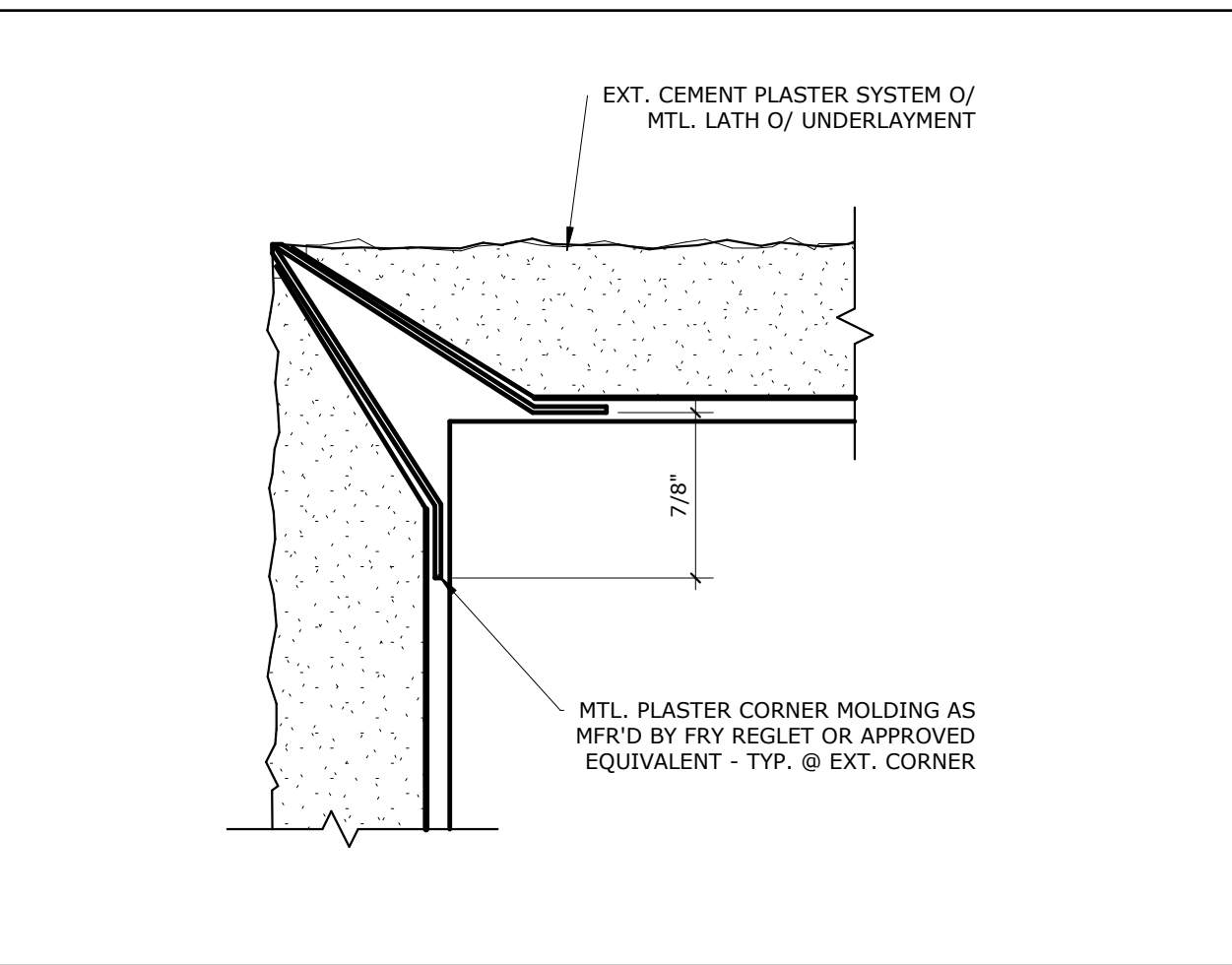
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KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

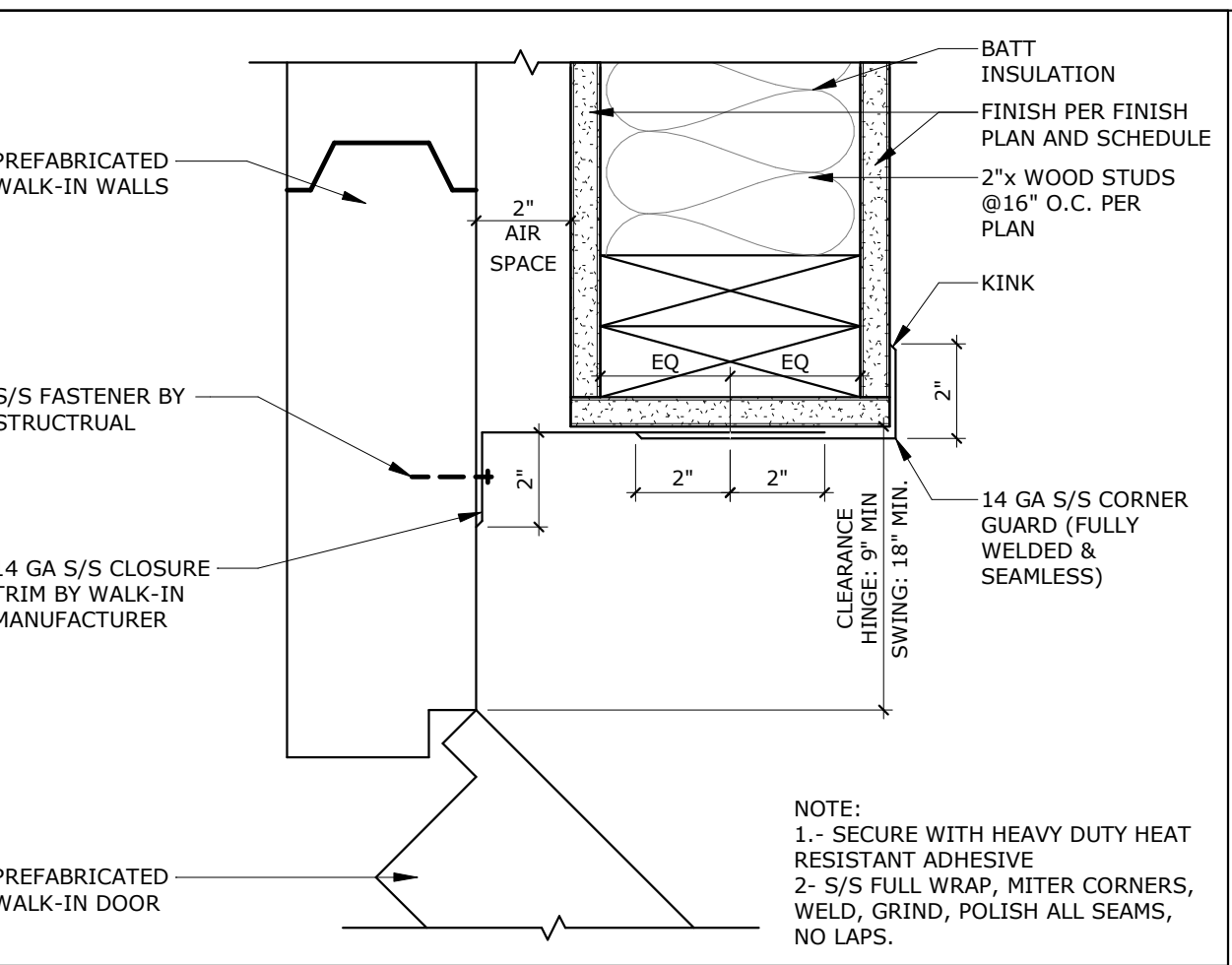
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ISOMETRIC OF TRANSITION SCALE: 3" = 1'-0" 16

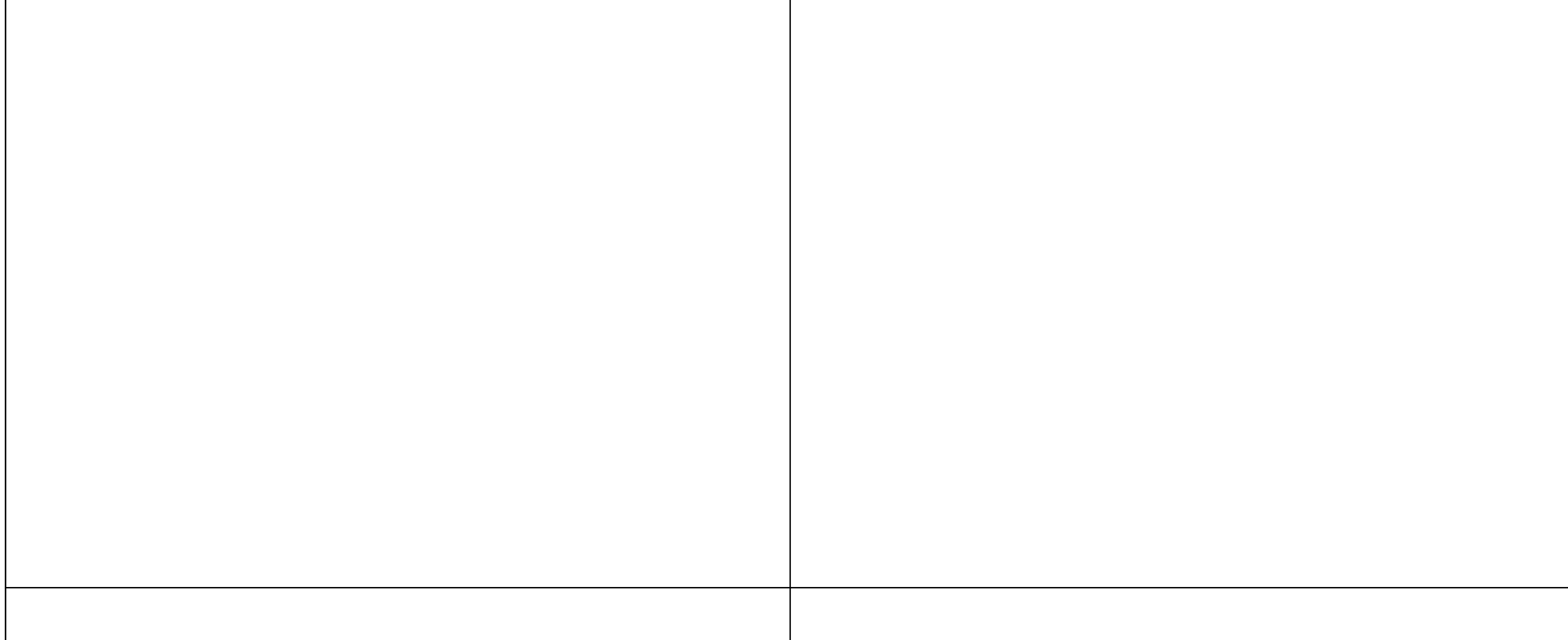


TYP. CPL EXTERIOR CORNER SCALE: 12" = 1'-0" 11

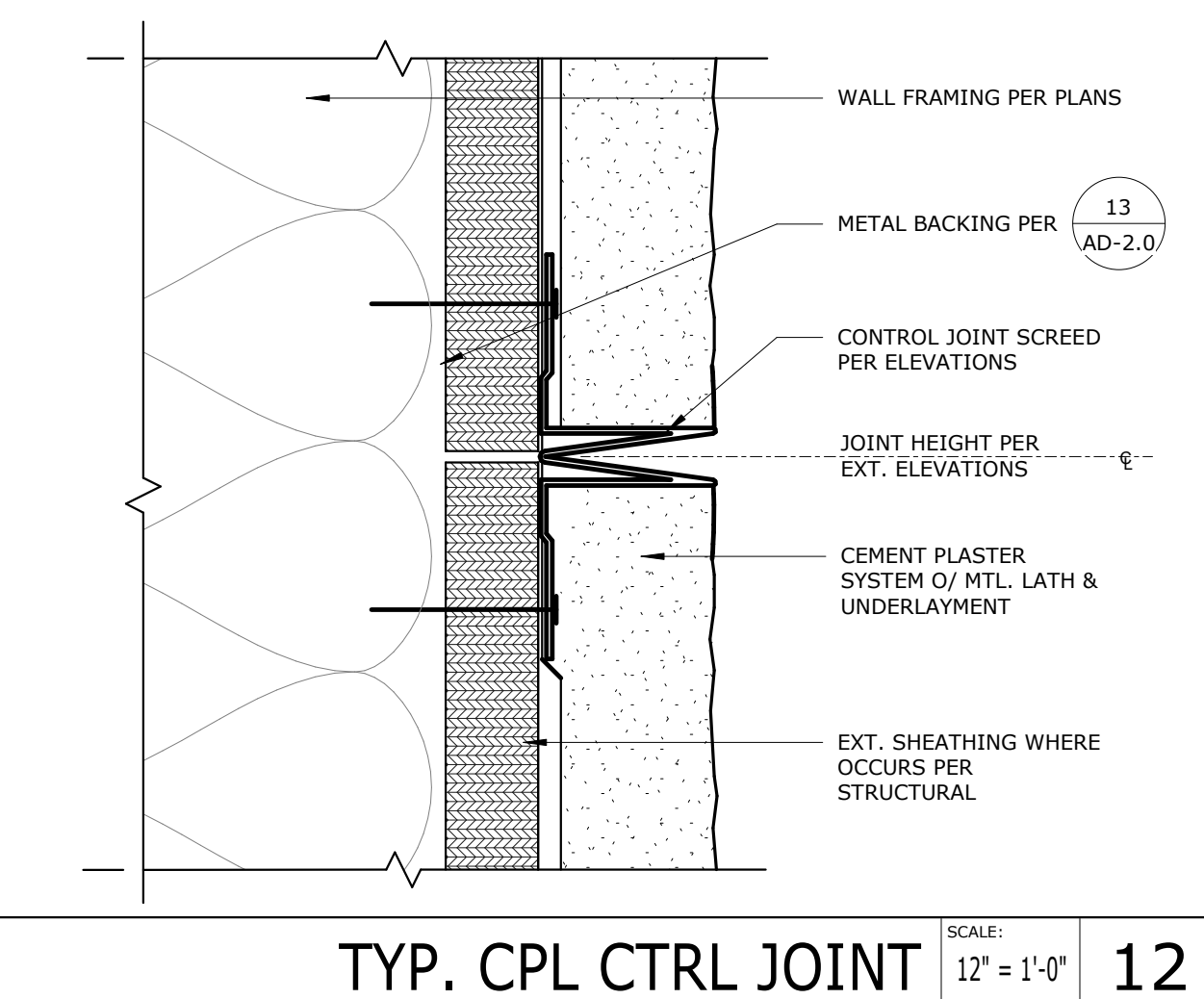


W-I SLIDING JOINT DETAIL SCALE: 3" = 1'-0" 6

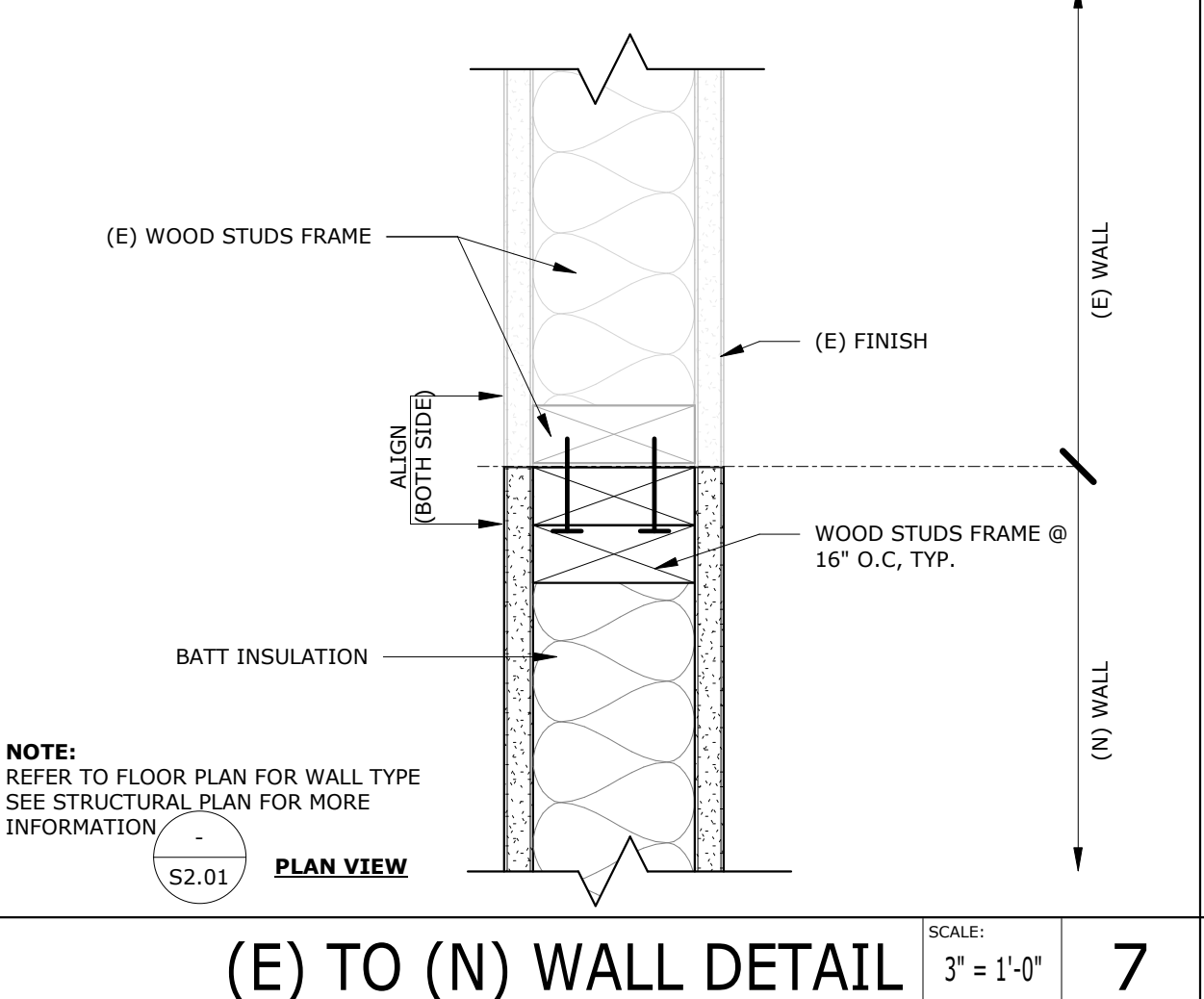
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 CONSULTANT BRANDING
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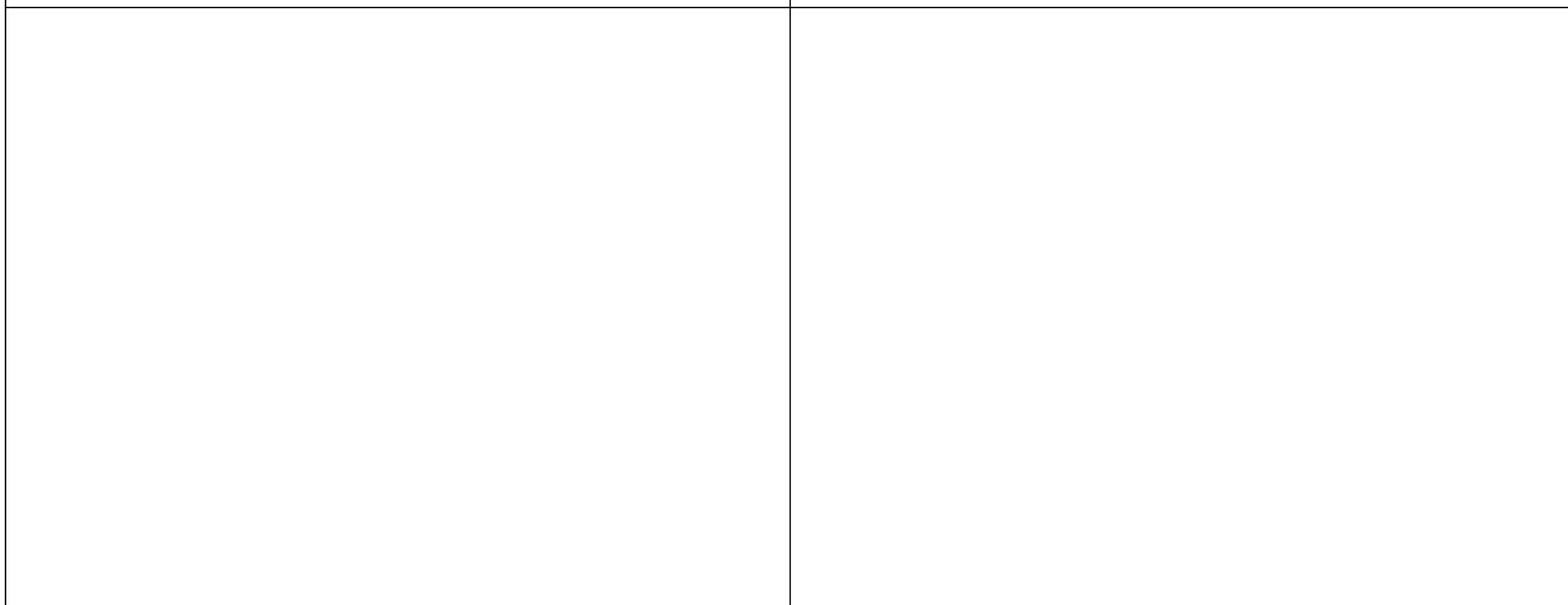
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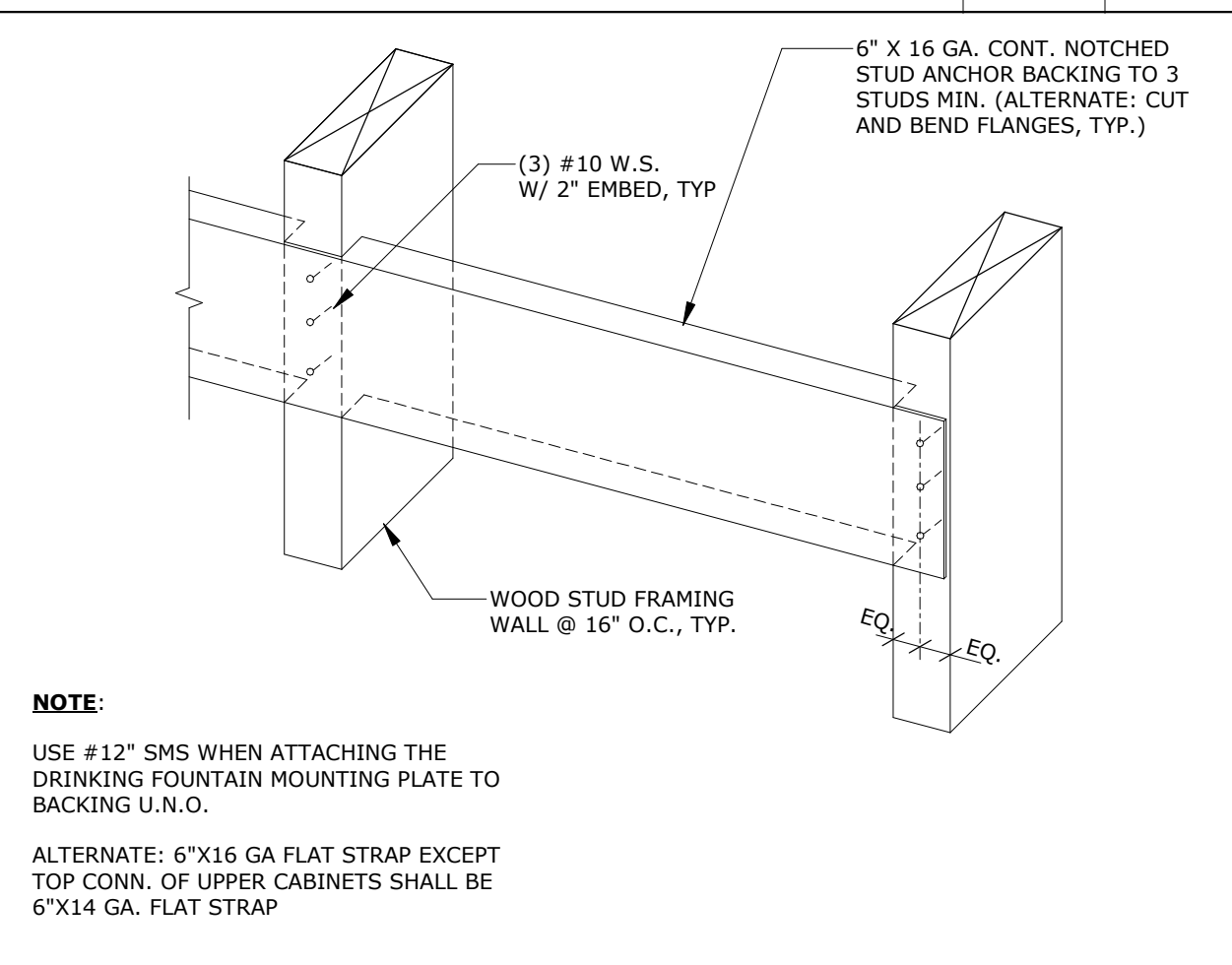
(E) TO (N) WALL DETAIL SCALE: 3" = 1'-0" 7



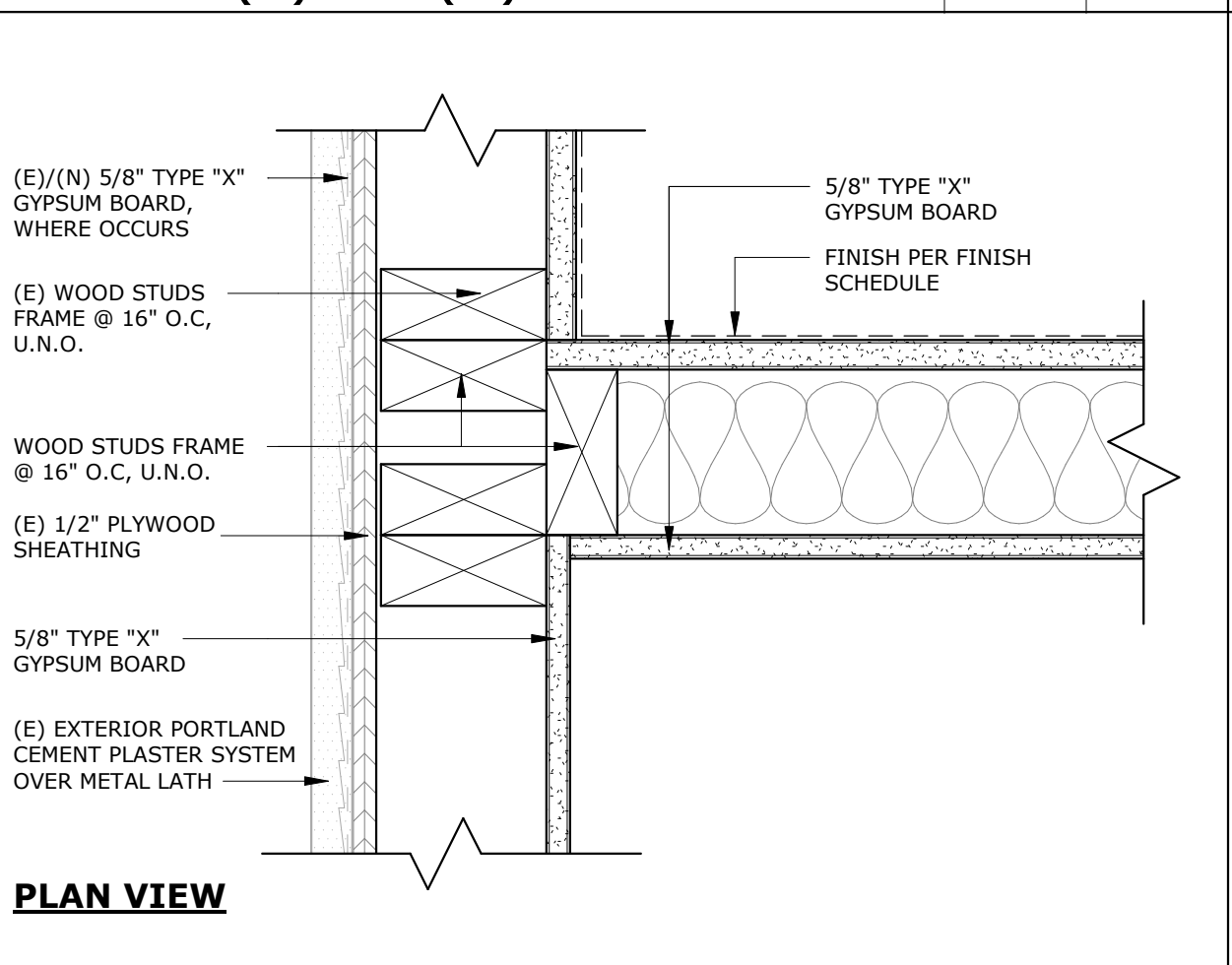
WALL TYPE 'A1' SCALE: 3" = 1'-0" 2



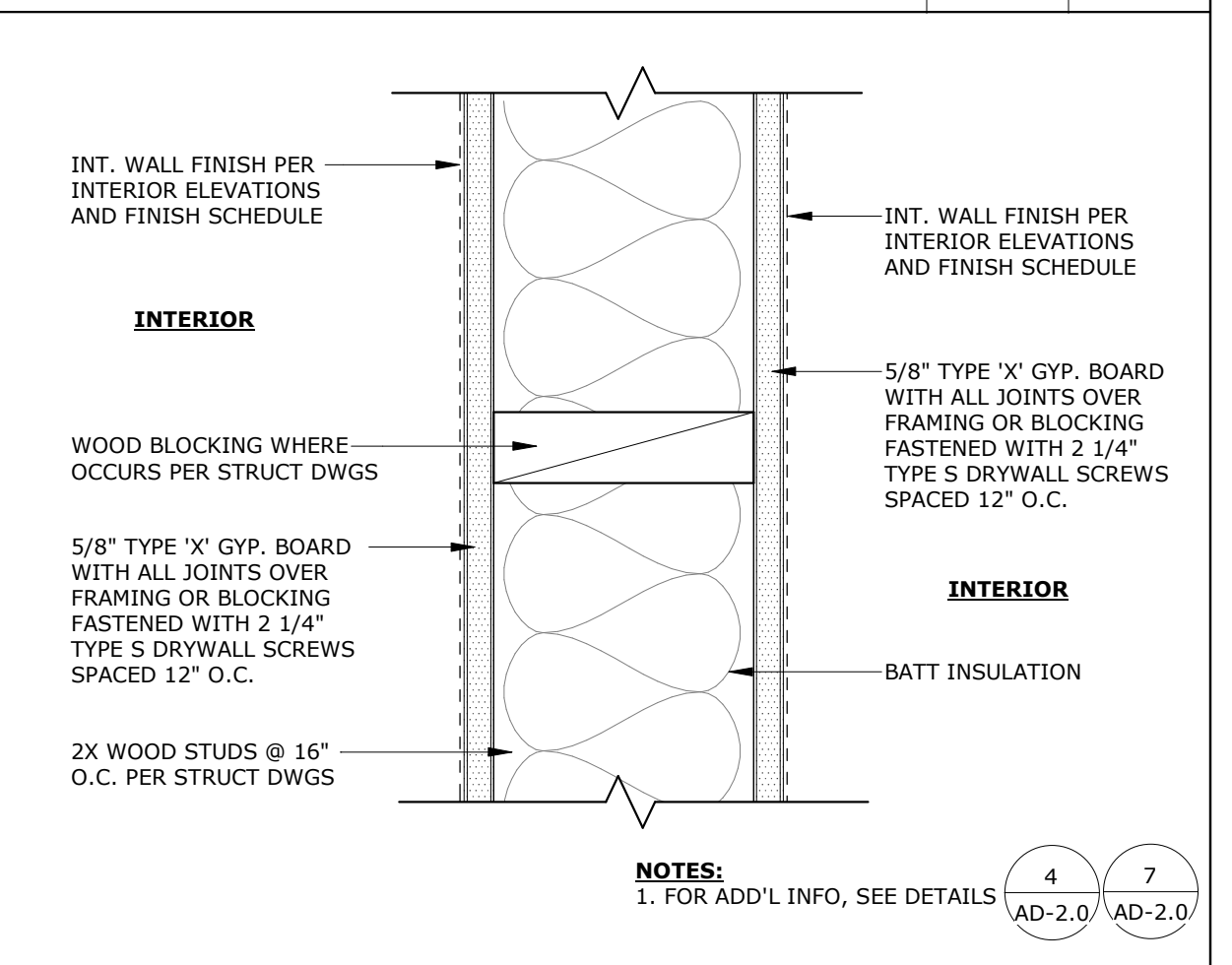
TYPICAL TILE WALL SCALE: 3" = 1'-0" 18



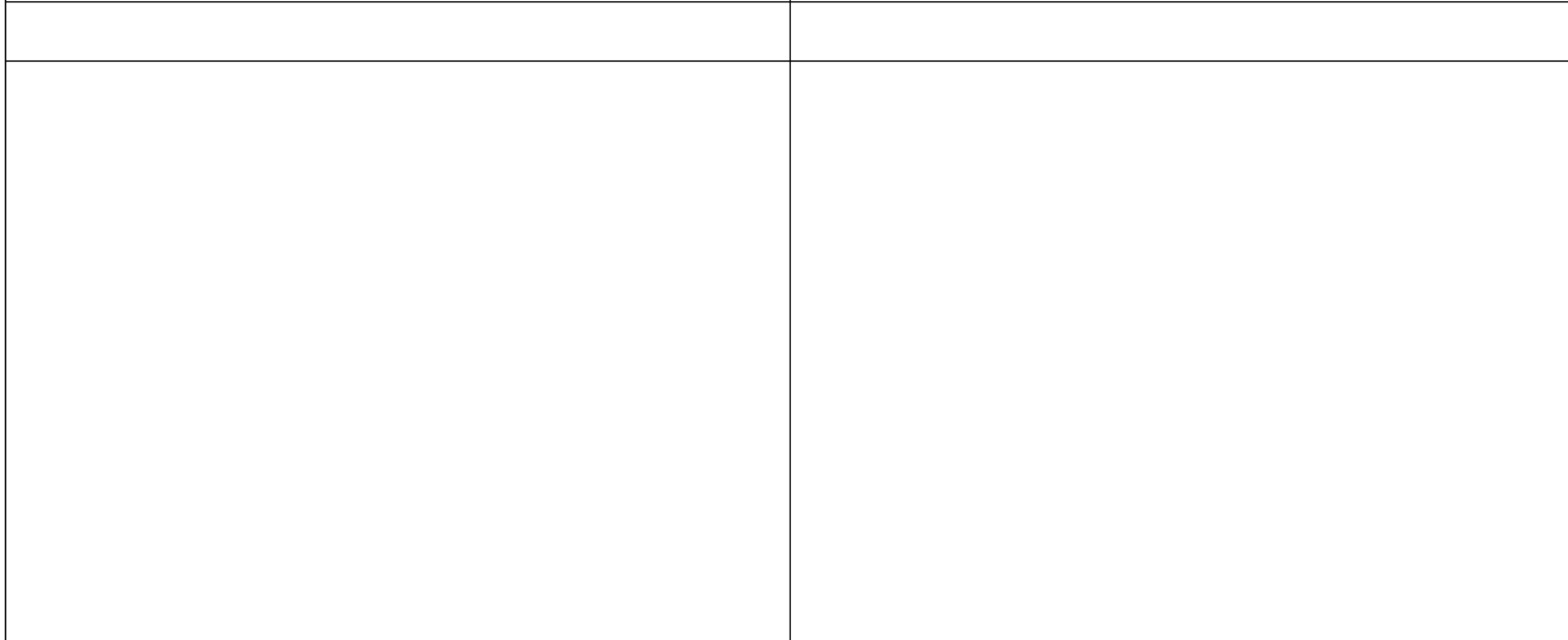
BACKING @ WOOD STUD SCALE: 1/2" = 1'-0" 13



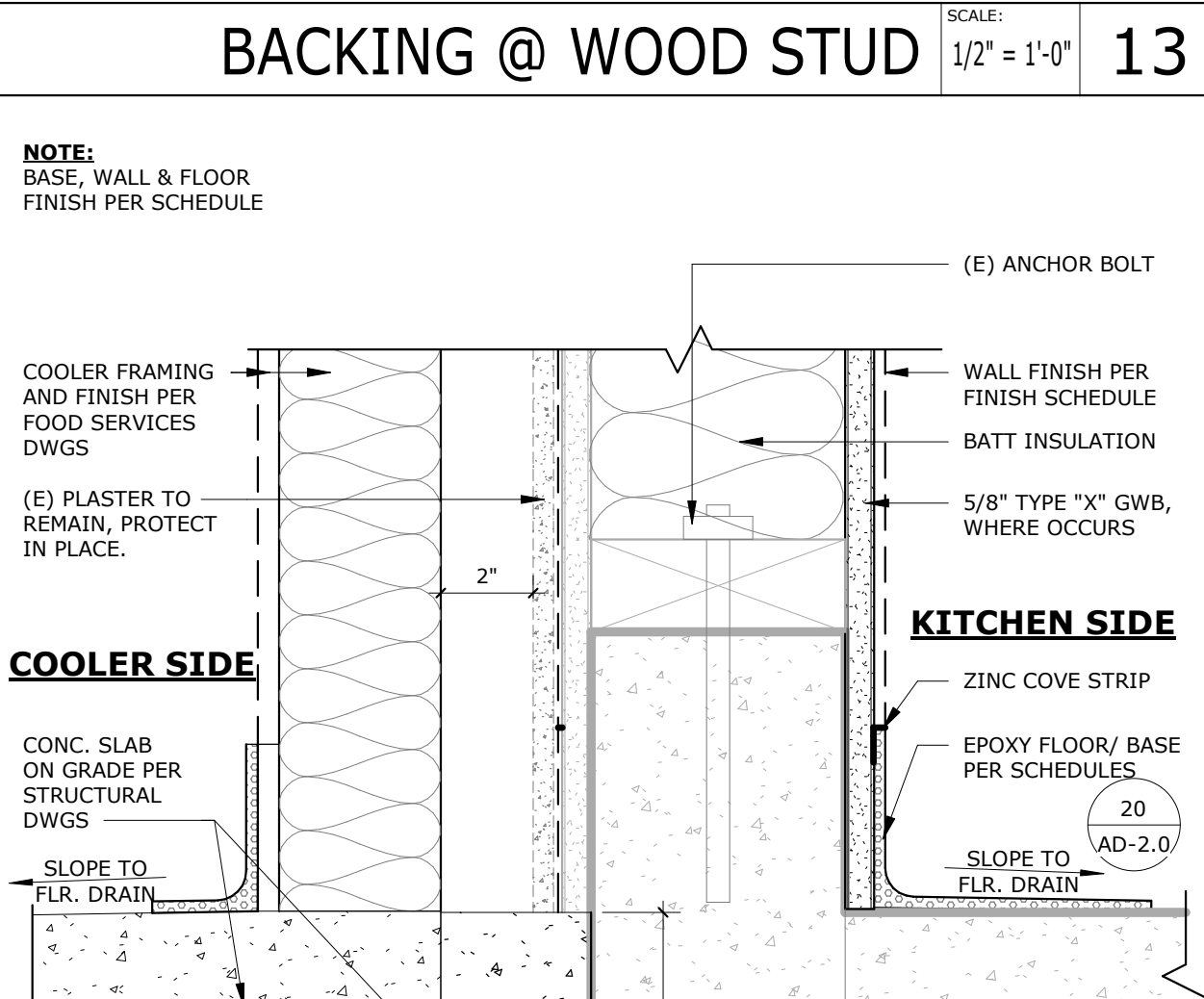
(N) WALL @ EXT. INTERSECTION SCALE: 3" = 1'-0" 8



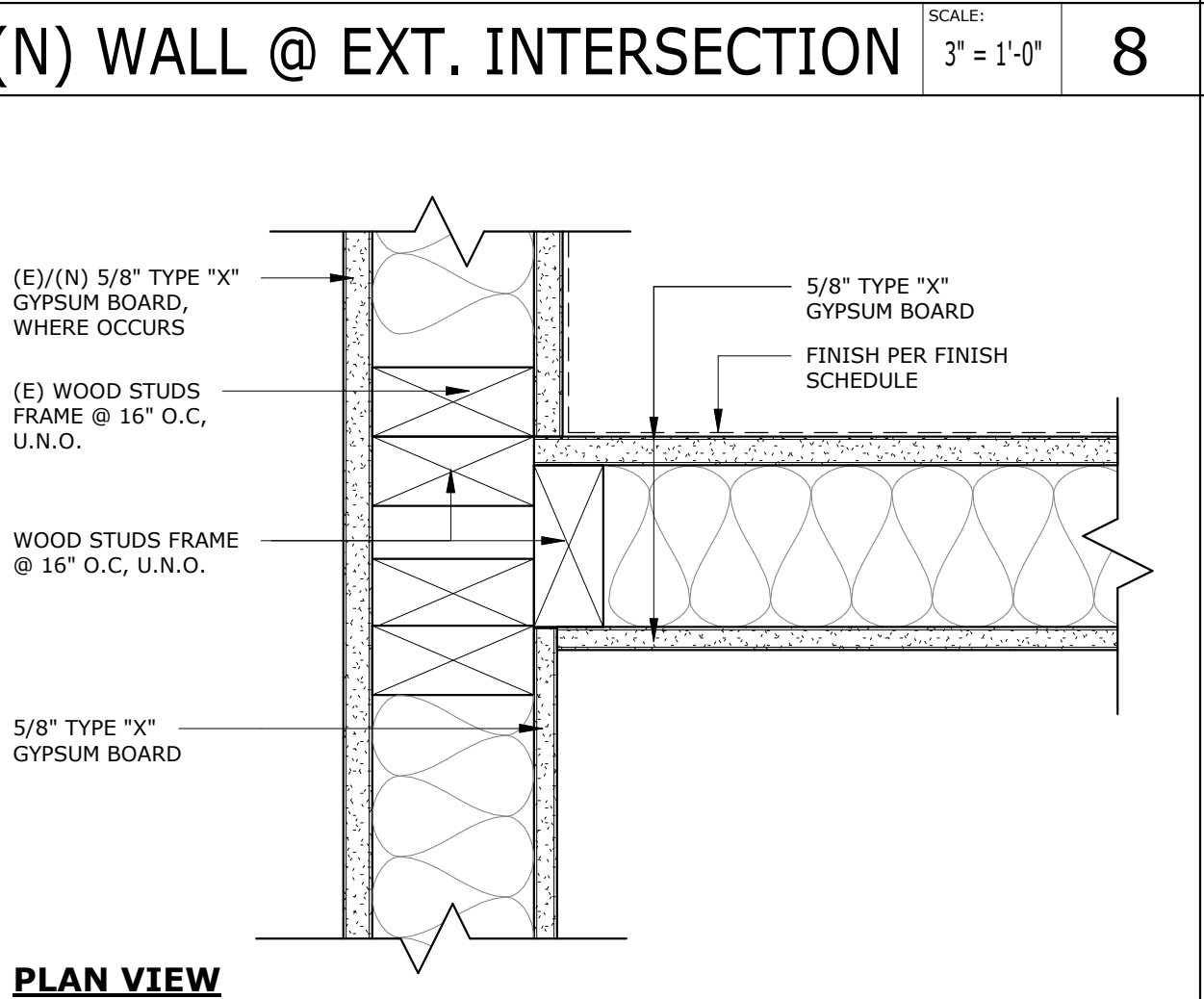
WALL TYPE 'B1' SCALE: 3" = 1'-0" 3



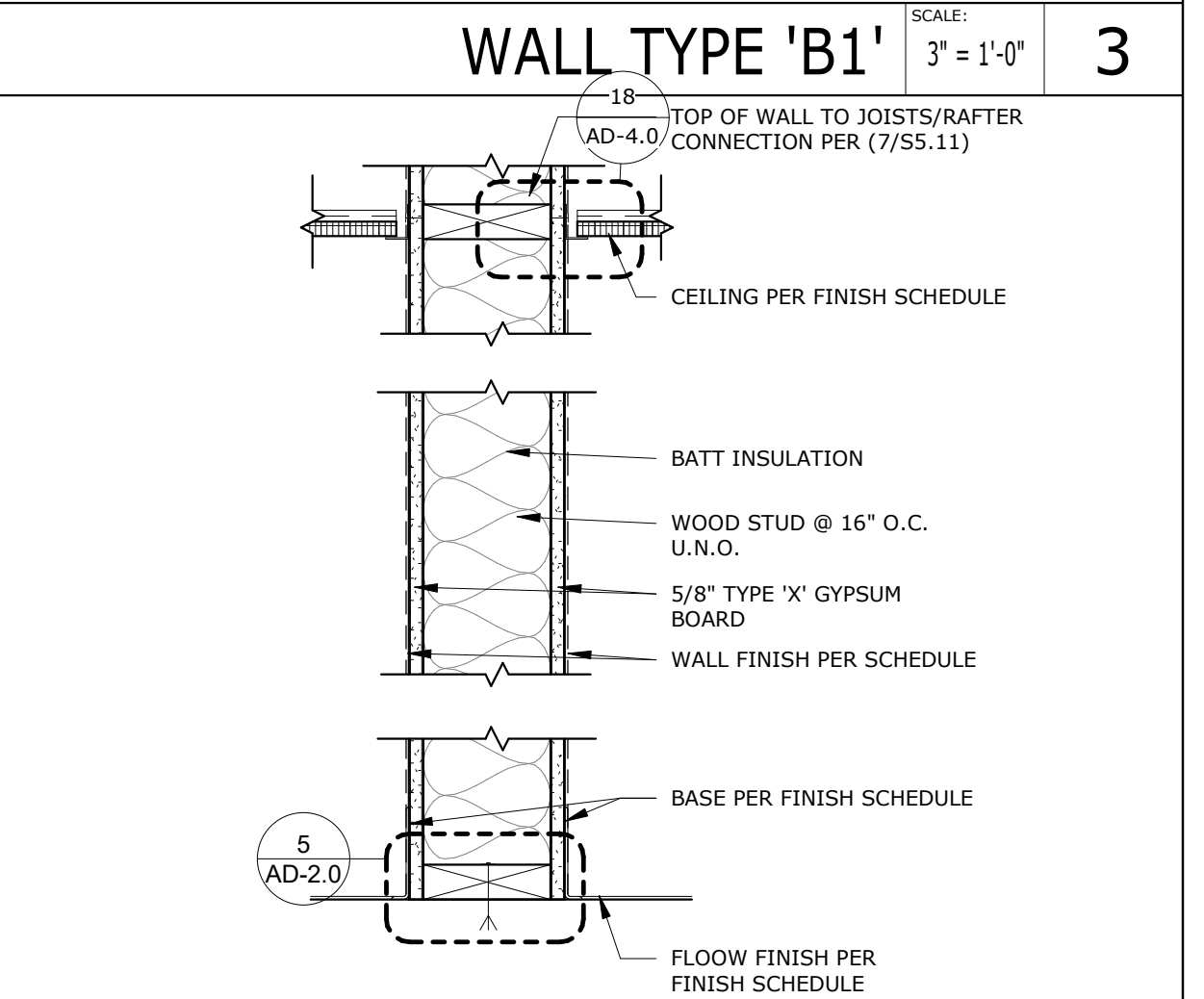
FLOOR DRAIN SCALE: 1 1/2" = 1'-0" 19



COOLER SIDE and KITCHEN SIDE SCALE: 1 1/2" = 1'-0" 15



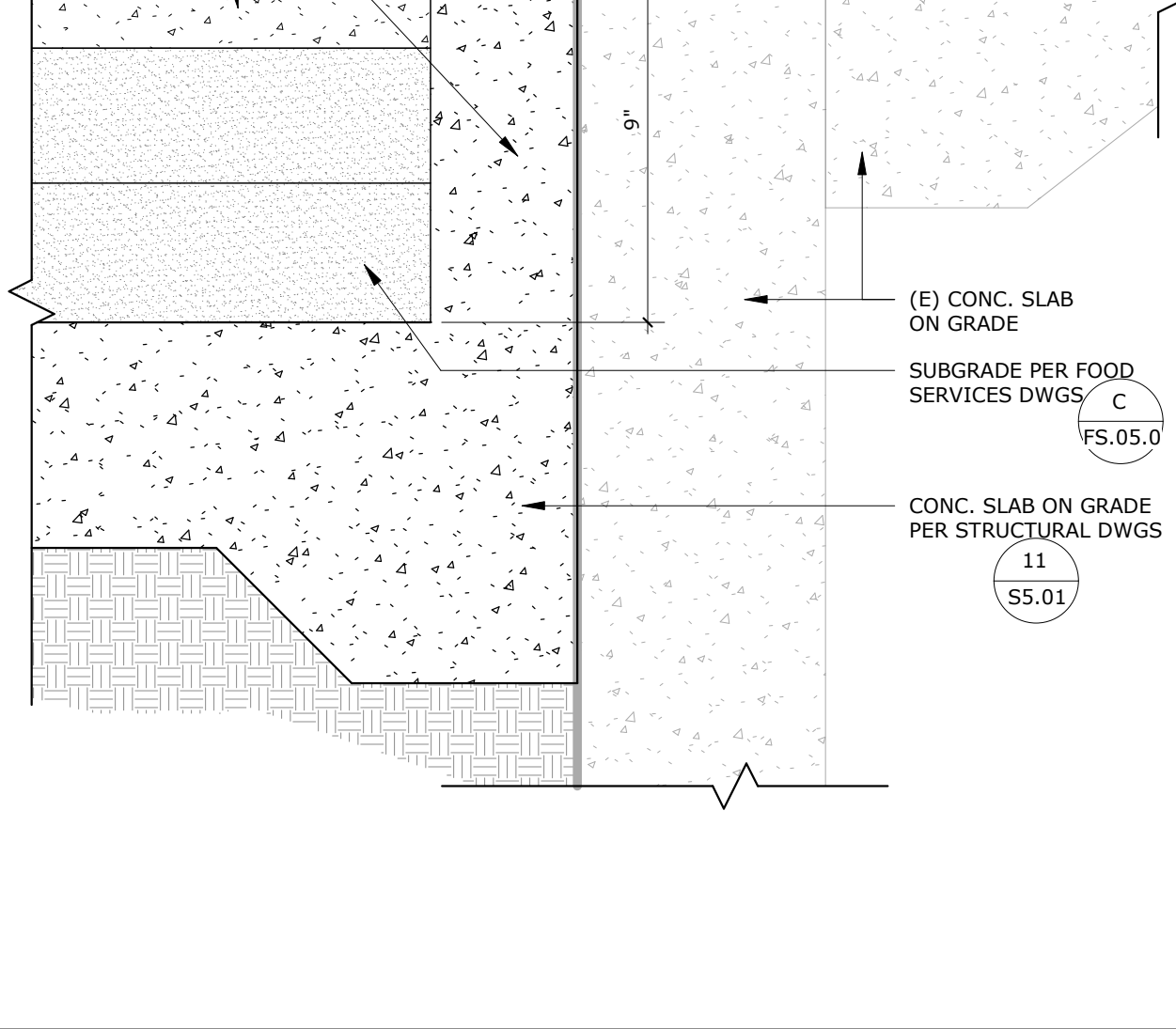
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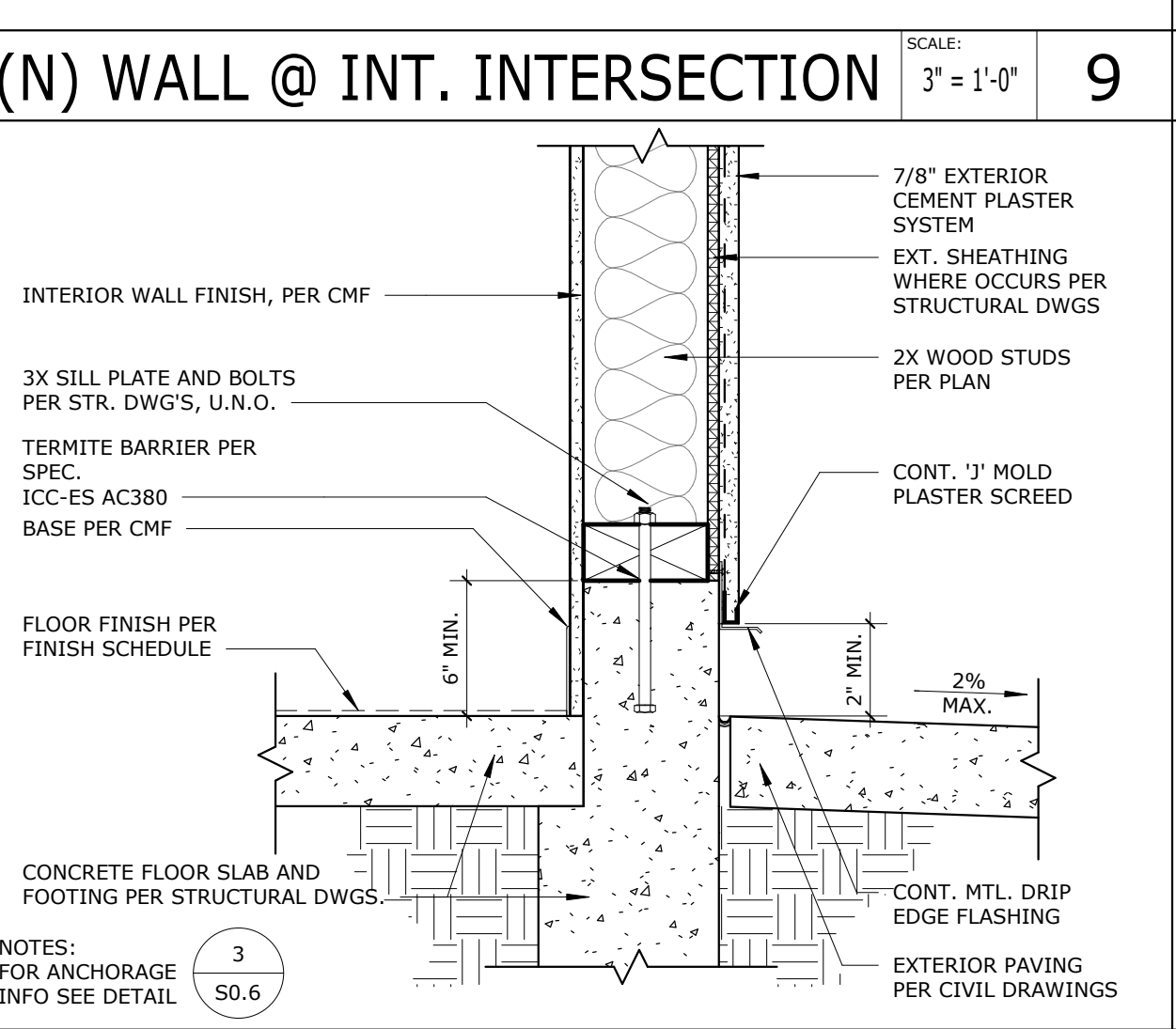
TYPICAL WALL DETAIL SCALE: 1 1/2" = 1'-0" 4



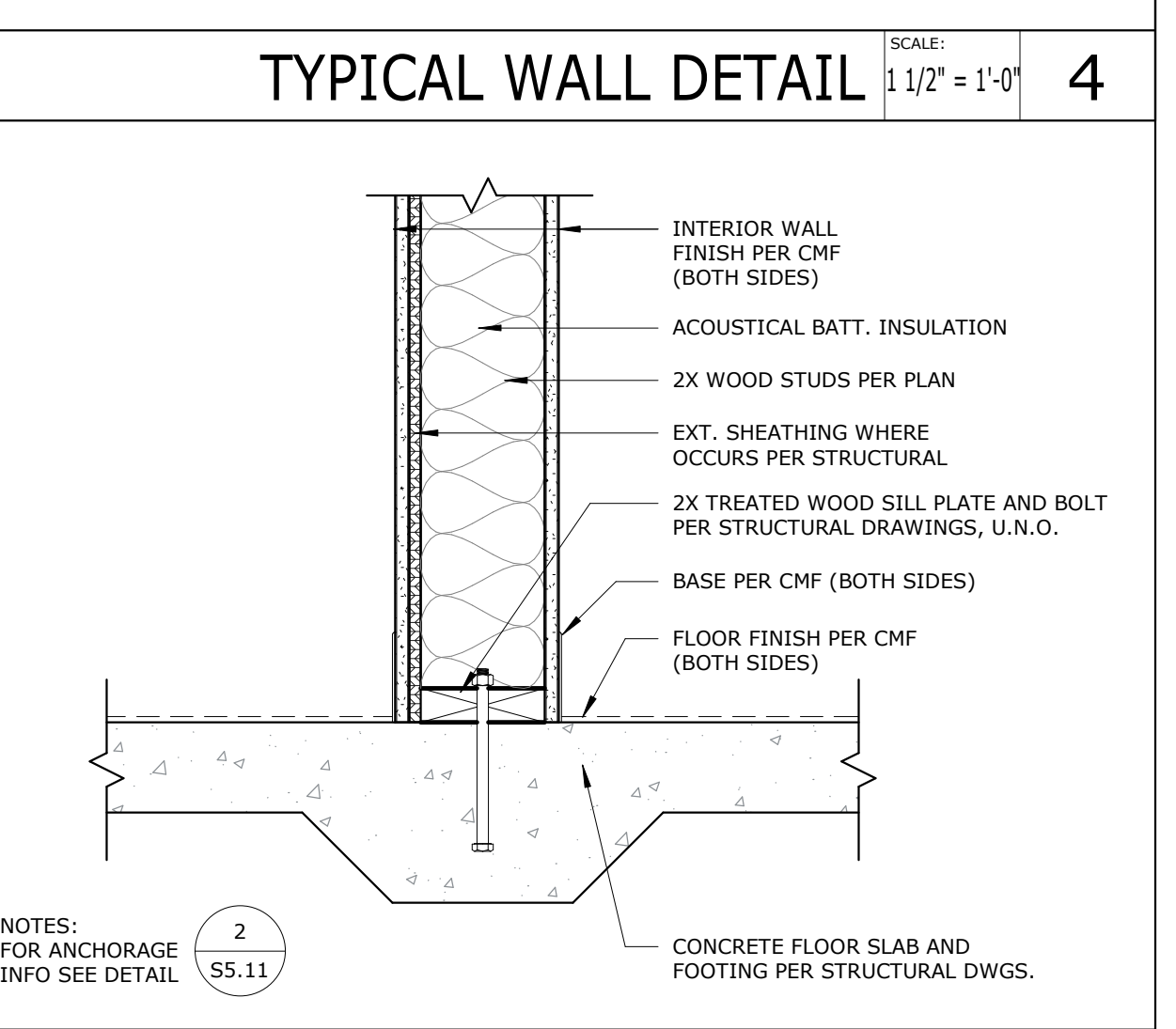
EPOXY FLOOR W/ INTEGRAL COVE BASE SCALE: 3" = 1'-0" 20



TRANS. @ COOLER AND (E) BLDG SCALE: 3" = 1'-0" 15



EXT. WALL CURB SCALE: 1 1/2" = 1'-0" 10



NON-BEARING INT. WALL BASE SCALE: 1 1/2" = 1'-0" 5

FOR REFERENCE ONLY

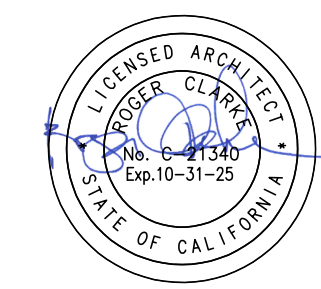
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KITCHEN UPGRADES AT JOYCE E.S.
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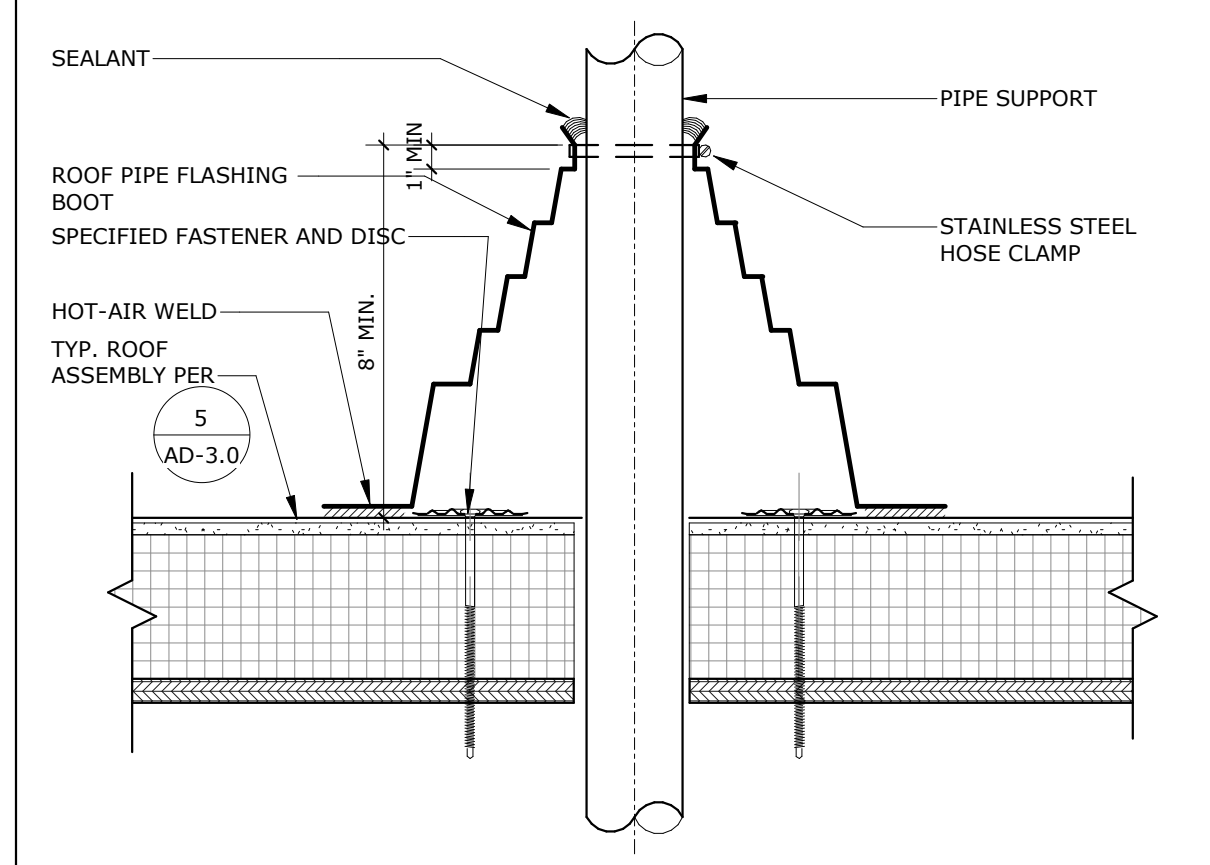
WALL DETAILS
 AD-2.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



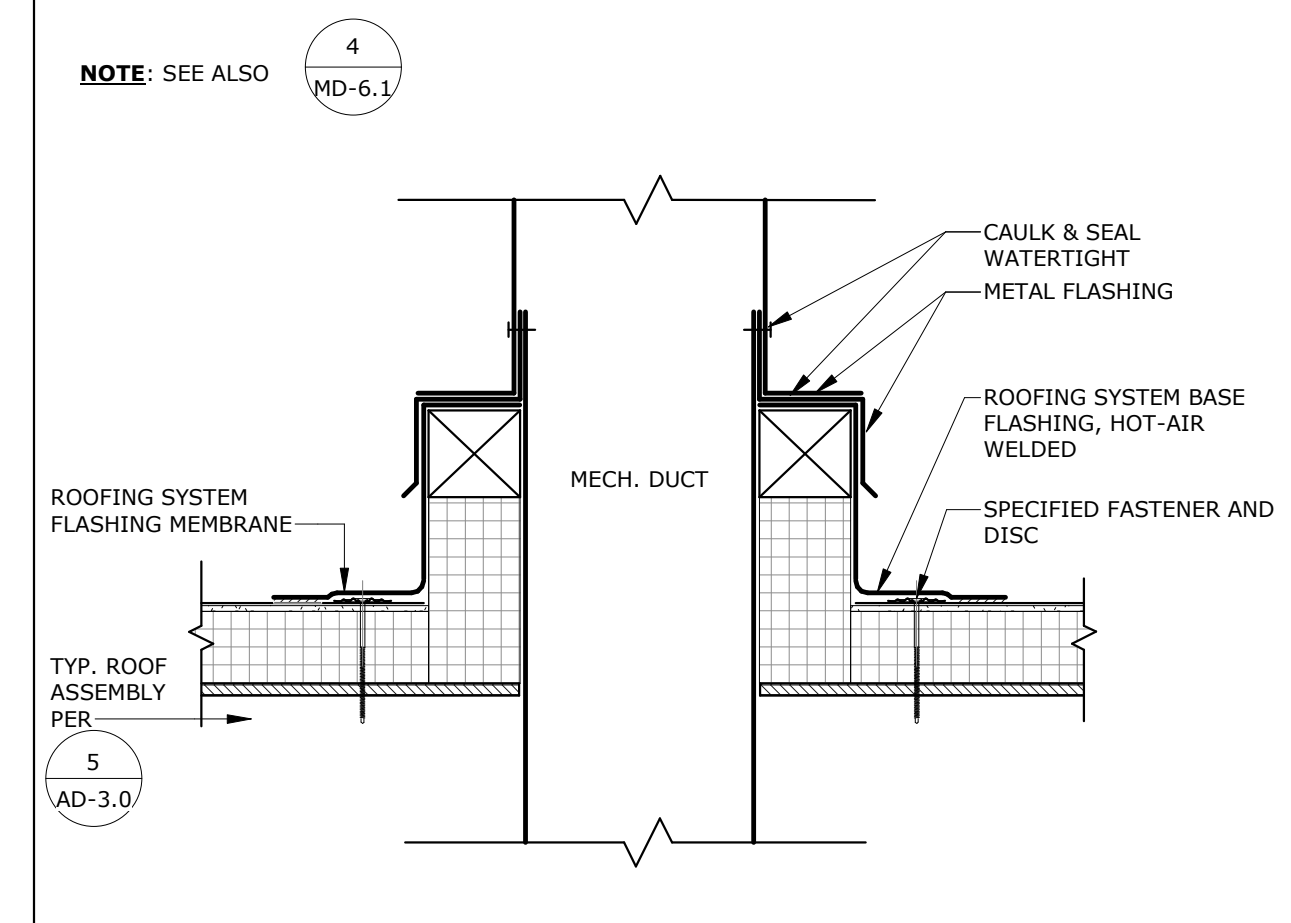
AGENCY APPROVAL
 (Seal area)

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 ARCHITECTS

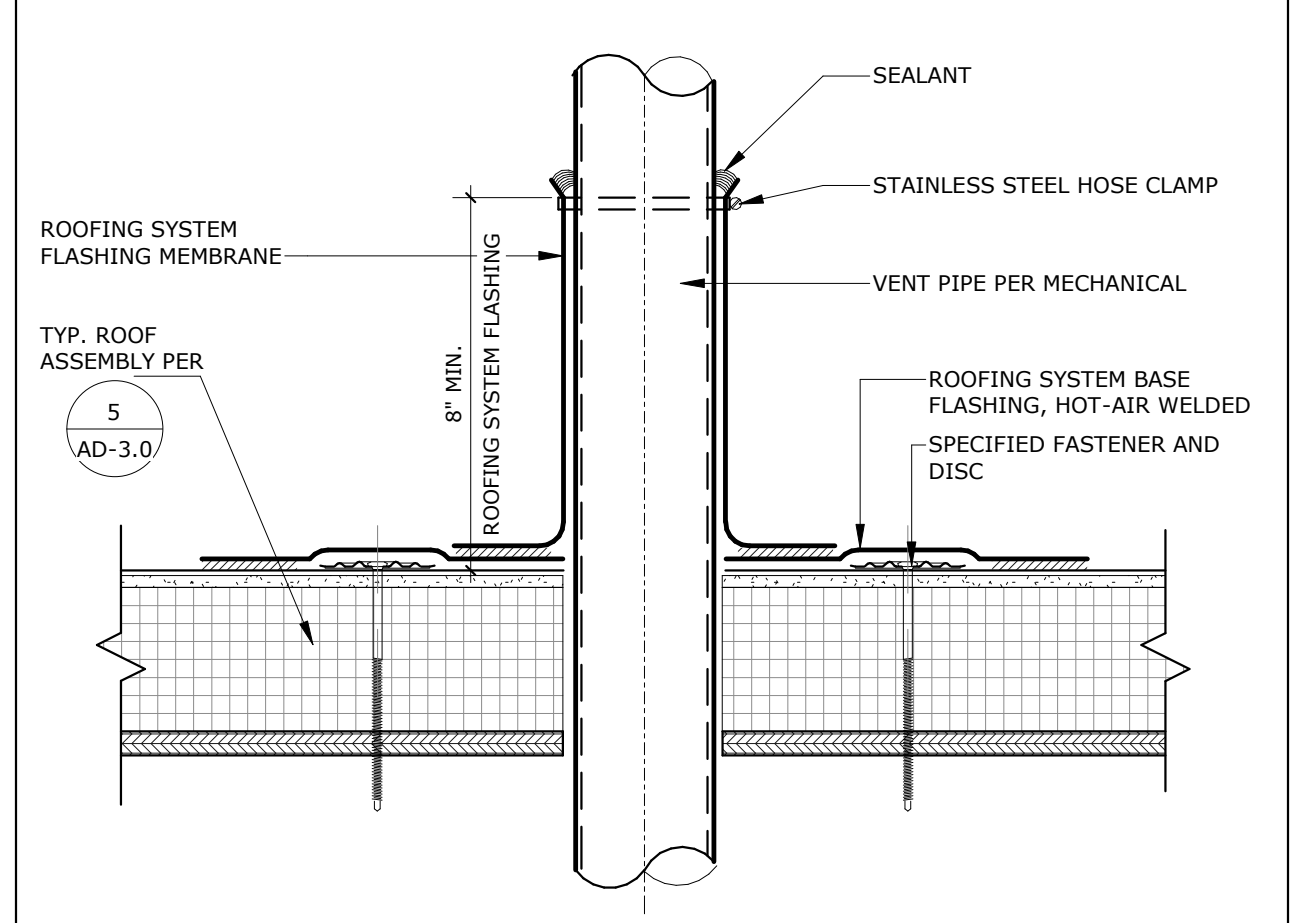


ROOF - BOOT FLASHING SCALE: 3" = 1'-0" 6

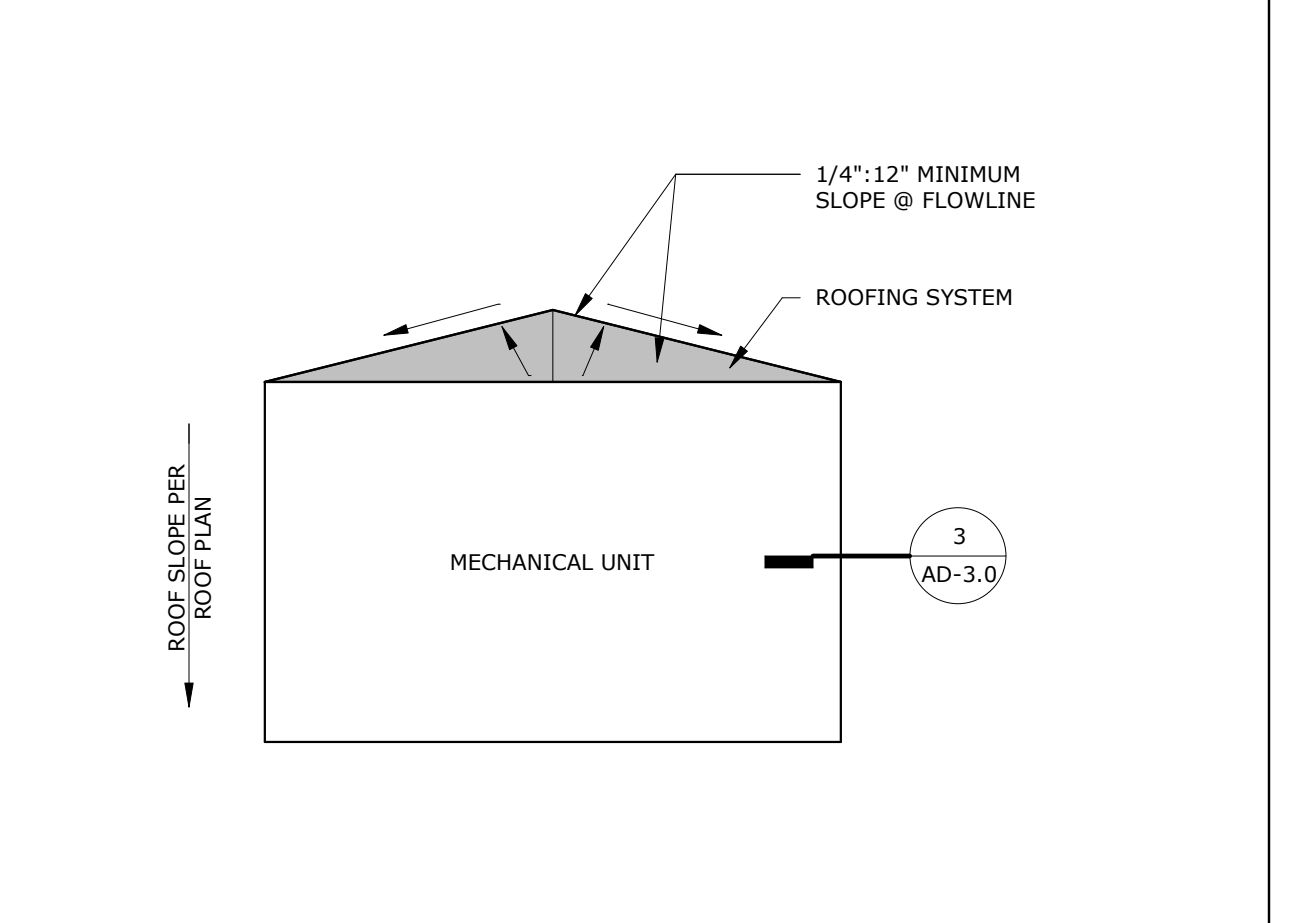
CONSULTANT BRANDING



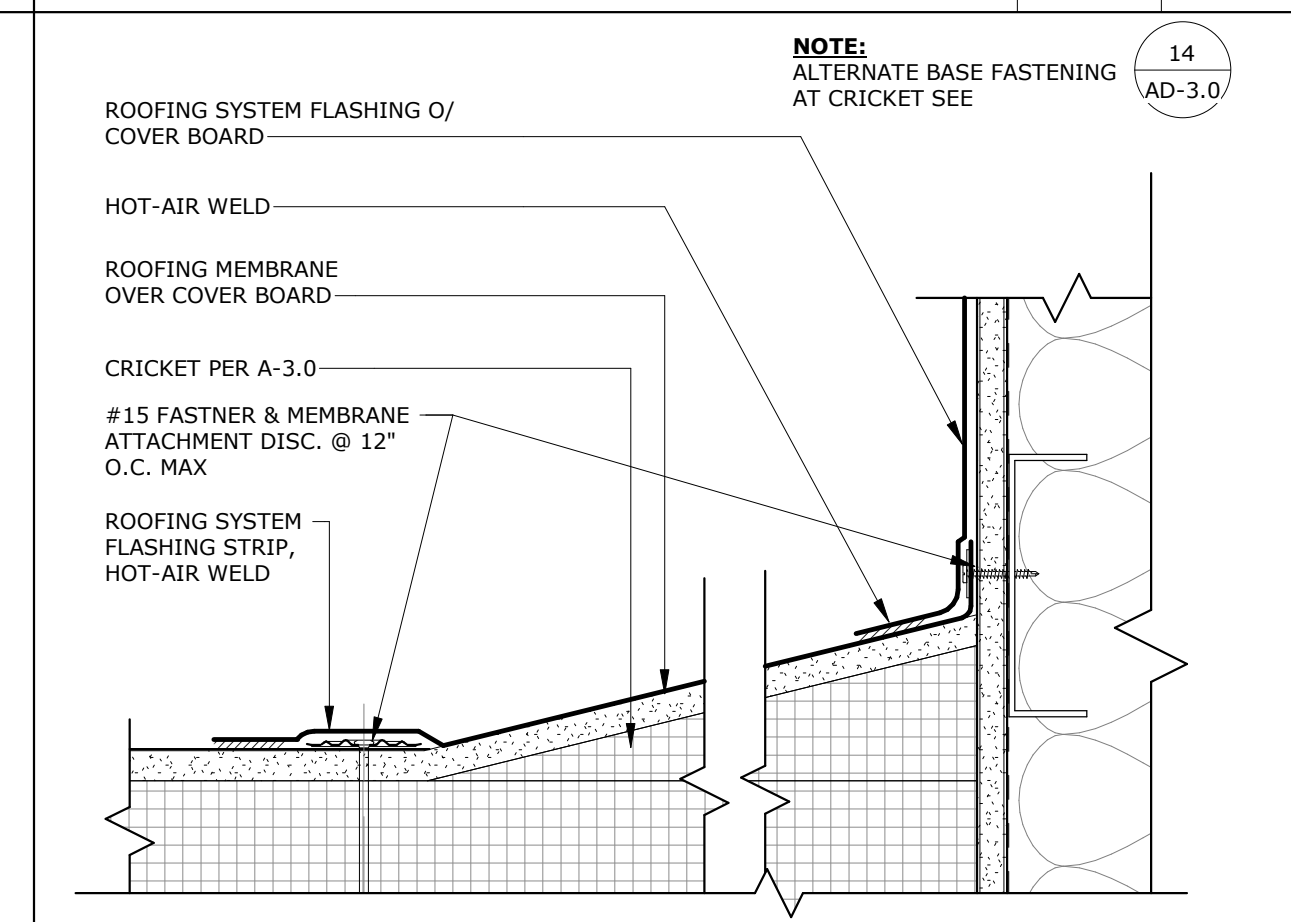
ROOF DUCT PENETRATION SCALE: 1 1/2" = 1'-0" 12



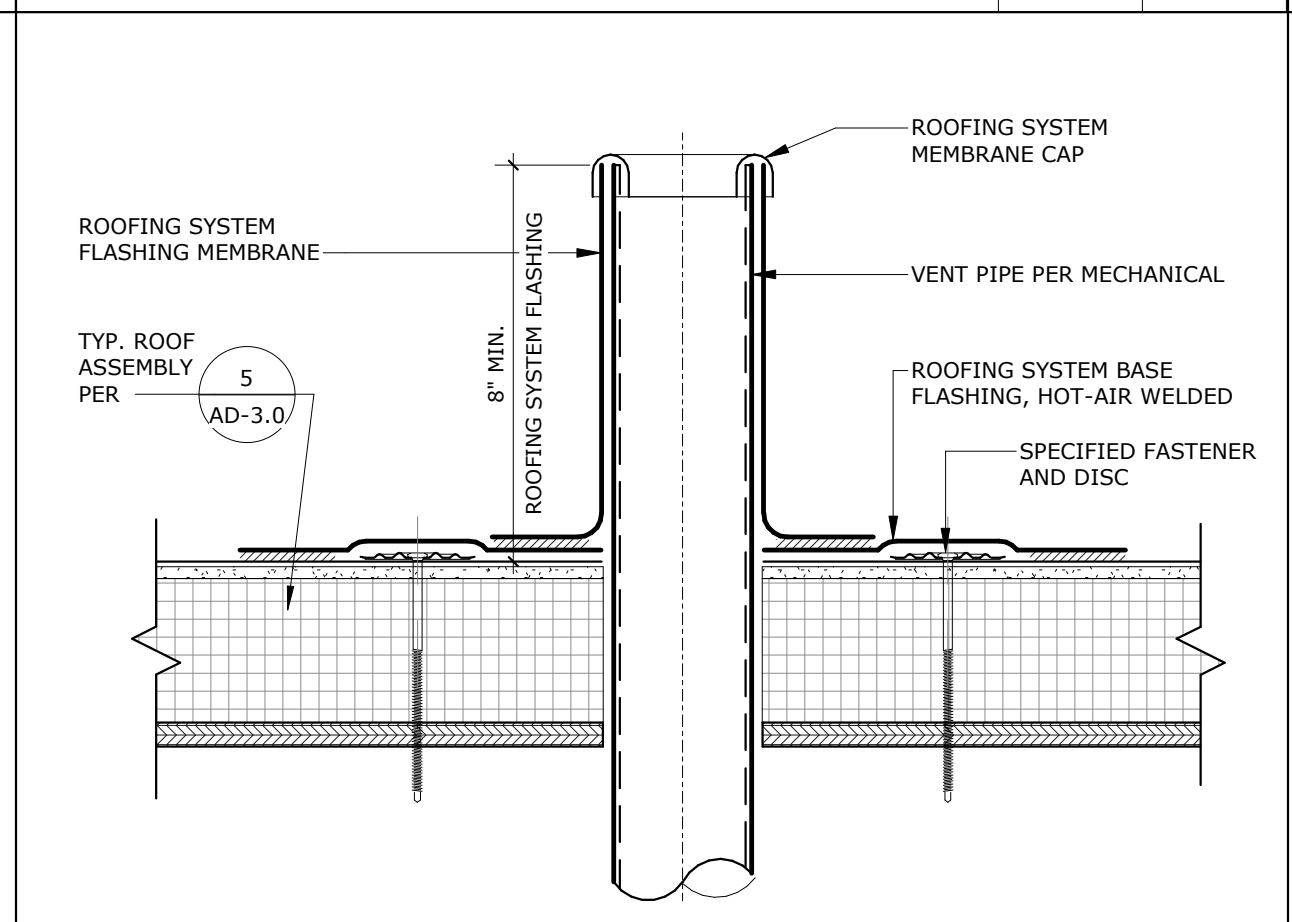
ROOF PIPE PENETRATION SCALE: 3" = 1'-0" 7



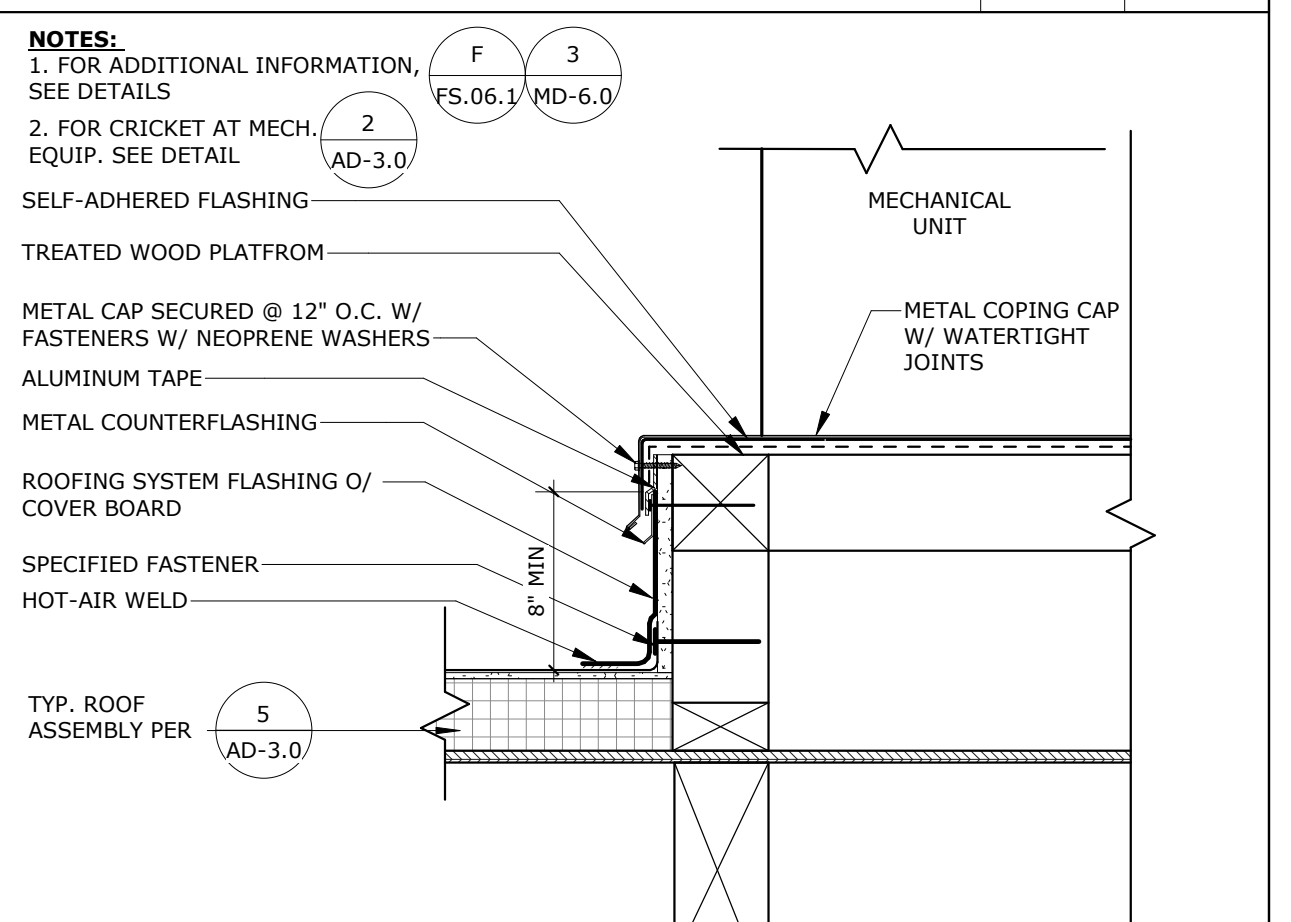
TYP. CRICKET @ MECH SCALE: 1 1/2" = 1'-0" 2



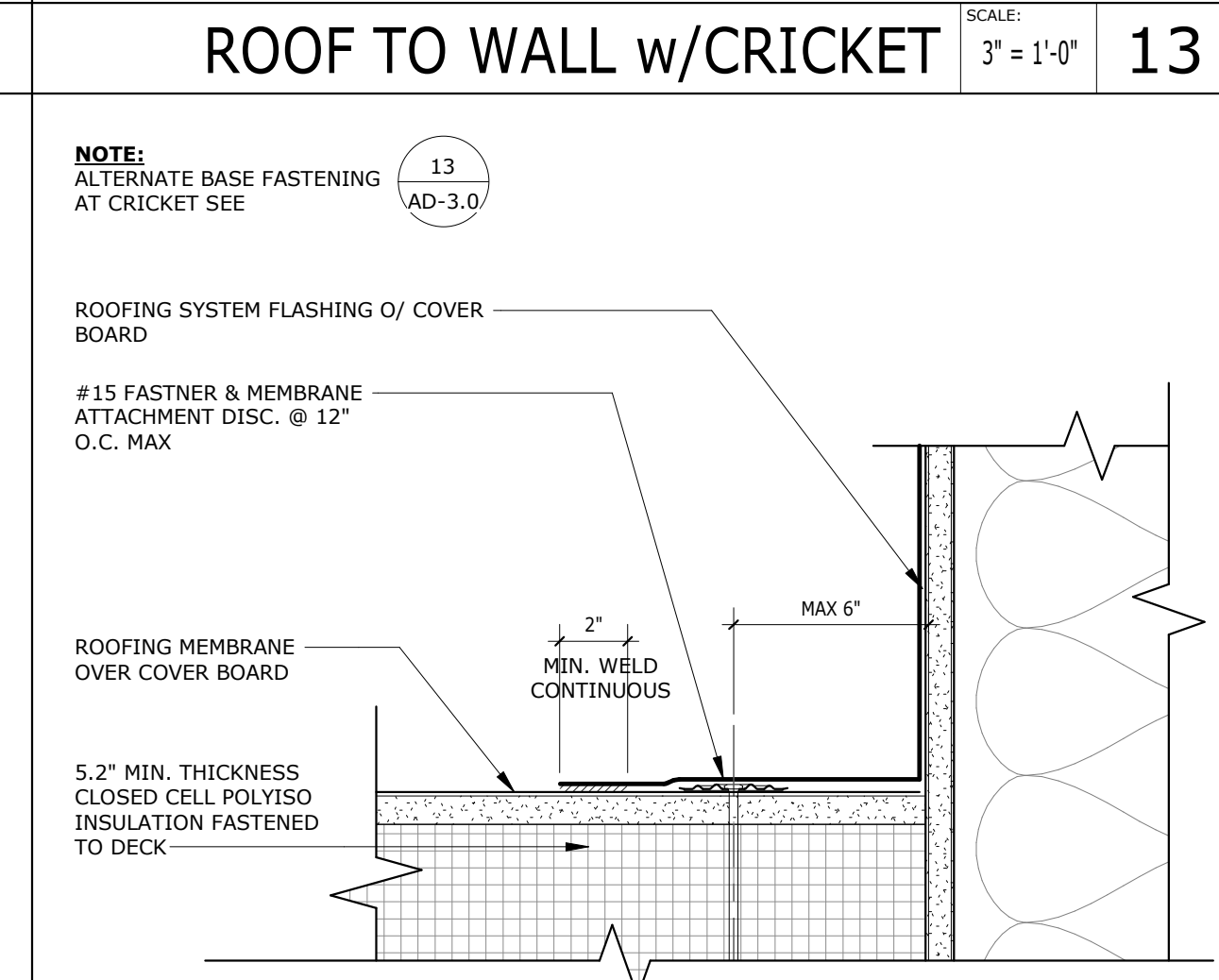
ROOF TO WALL w/CRICKET SCALE: 3" = 1'-0" 13



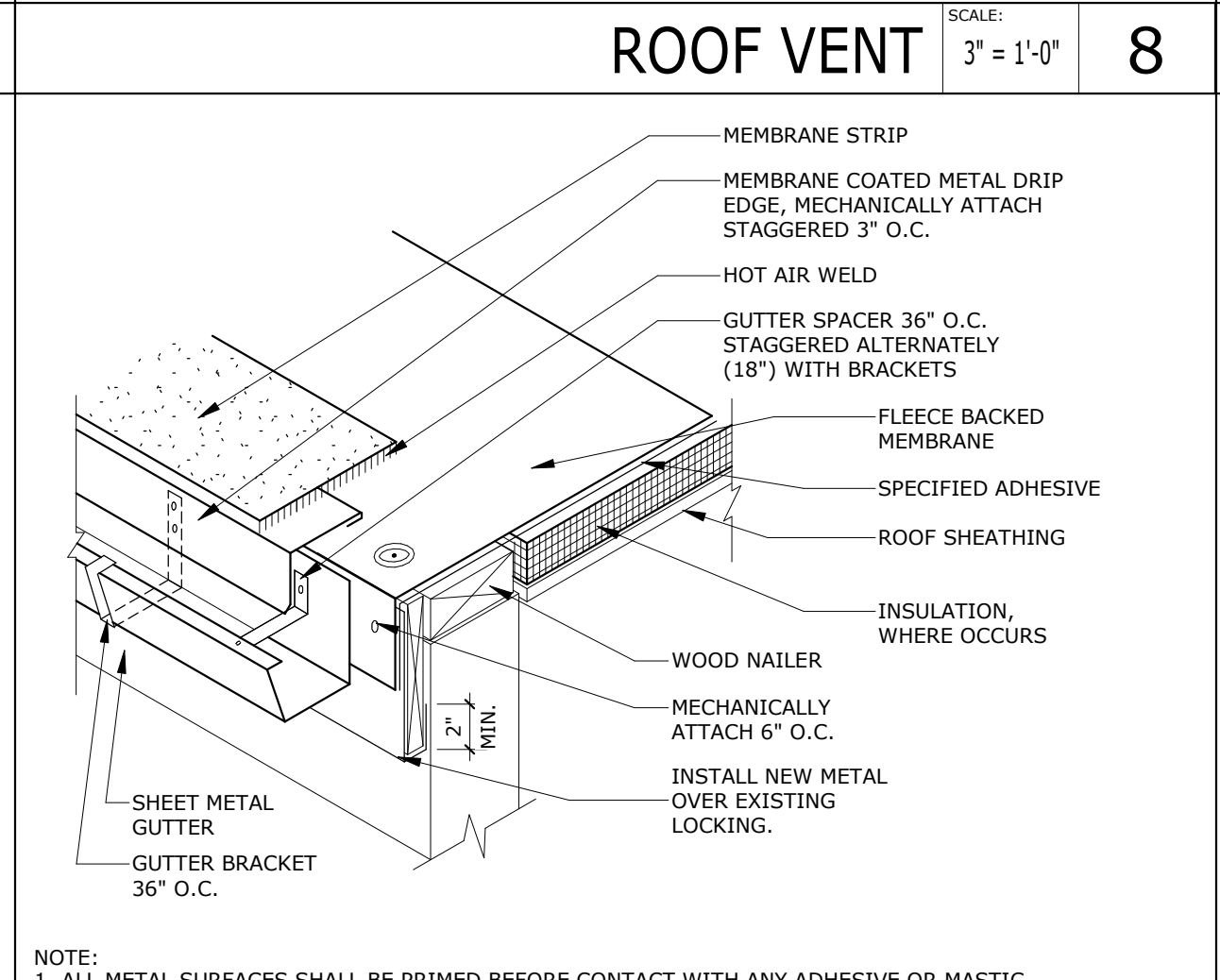
ROOF VENT SCALE: 3" = 1'-0" 8



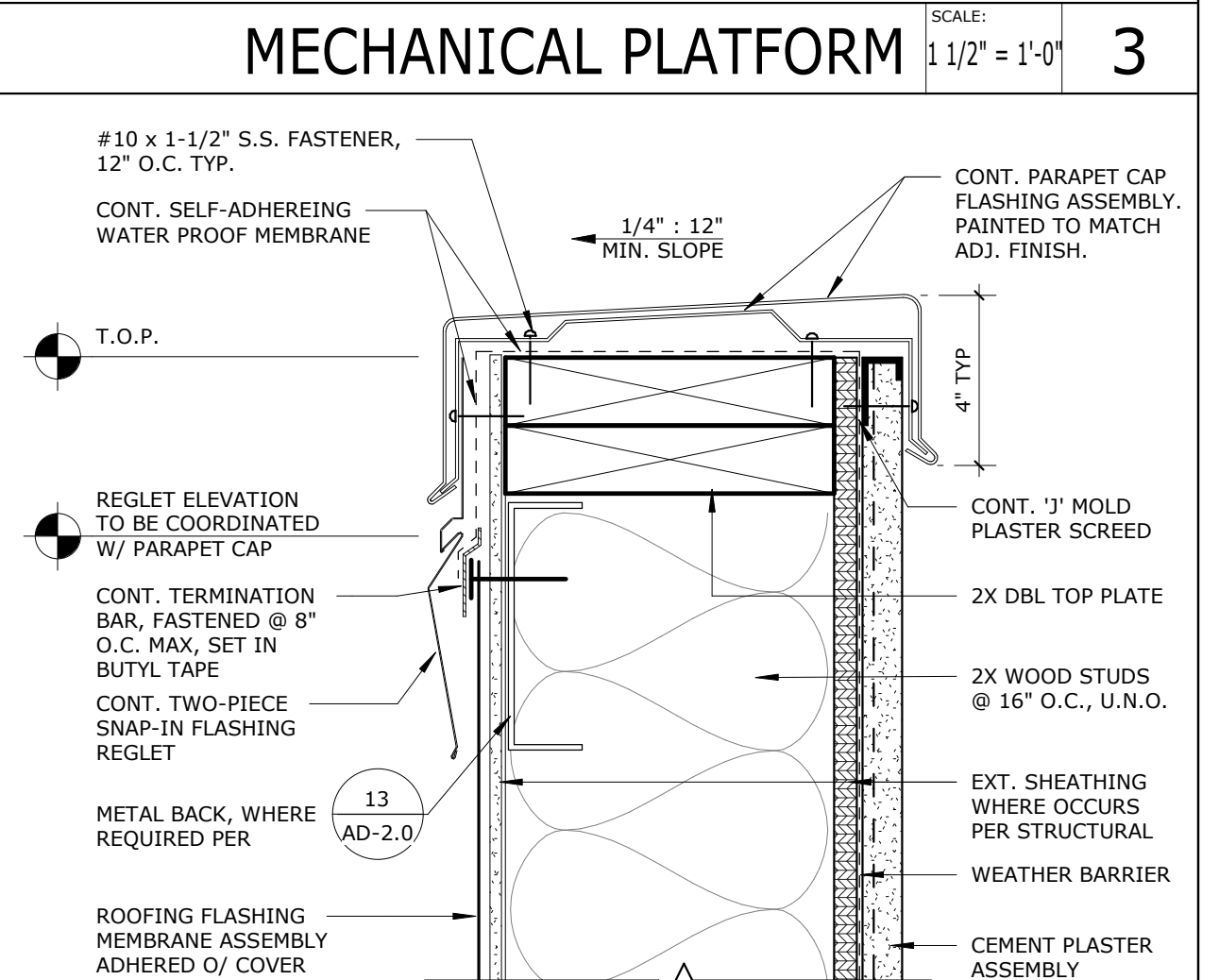
MECHANICAL PLATFORM SCALE: 1 1/2" = 1'-0" 3



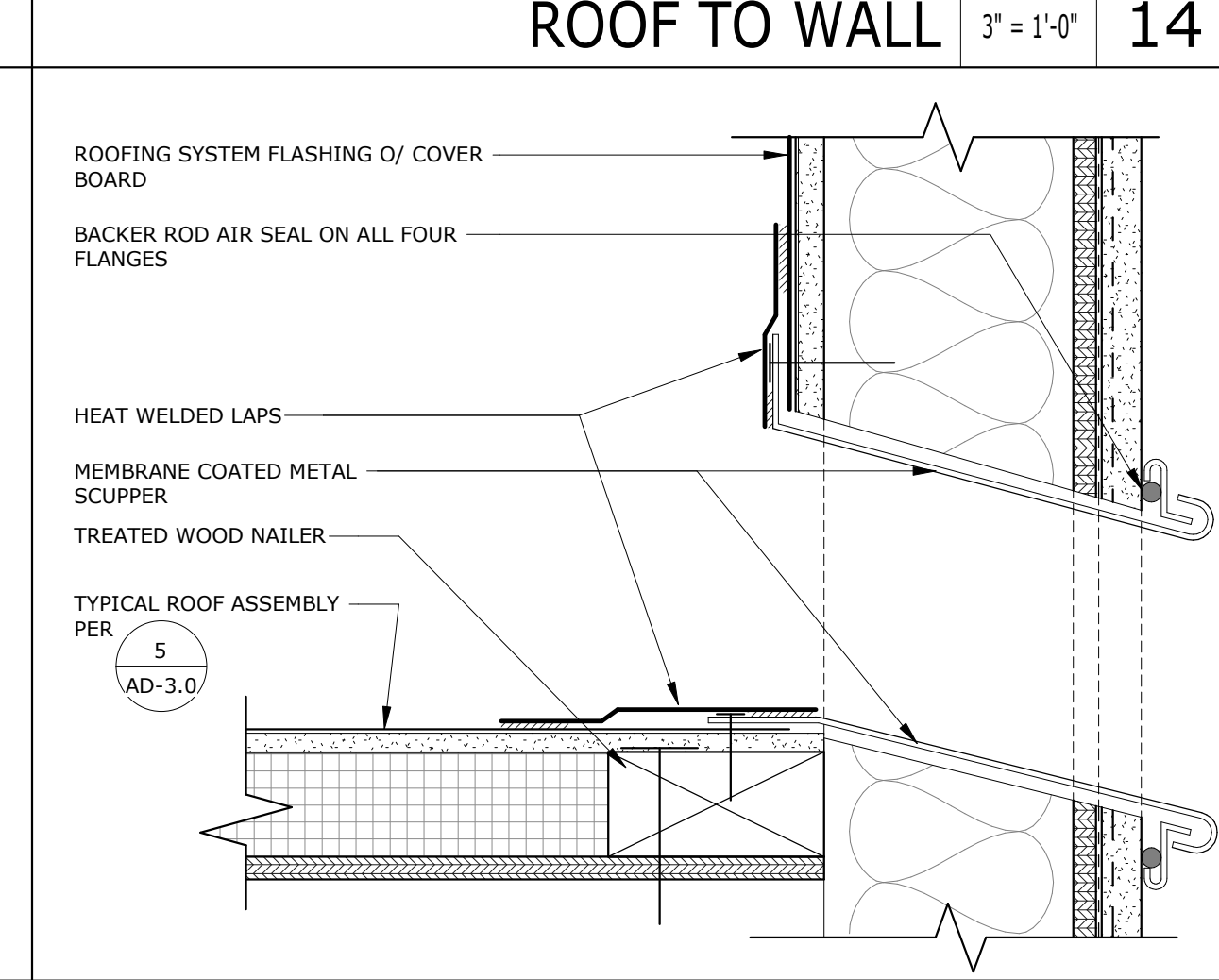
ROOF TO WALL SCALE: 3" = 1'-0" 14



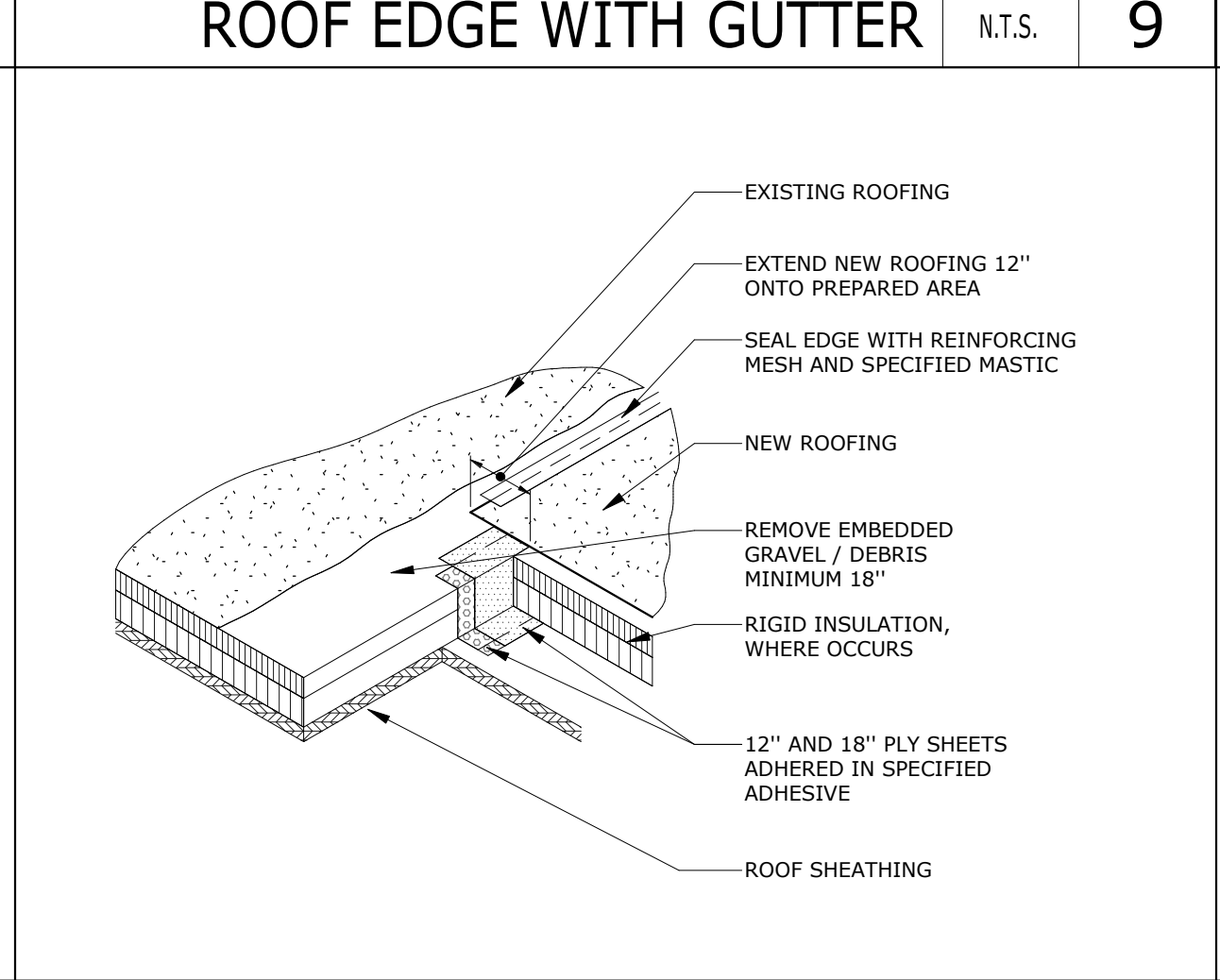
ROOF EDGE WITH GUTTER SCALE: N.T.S. 9



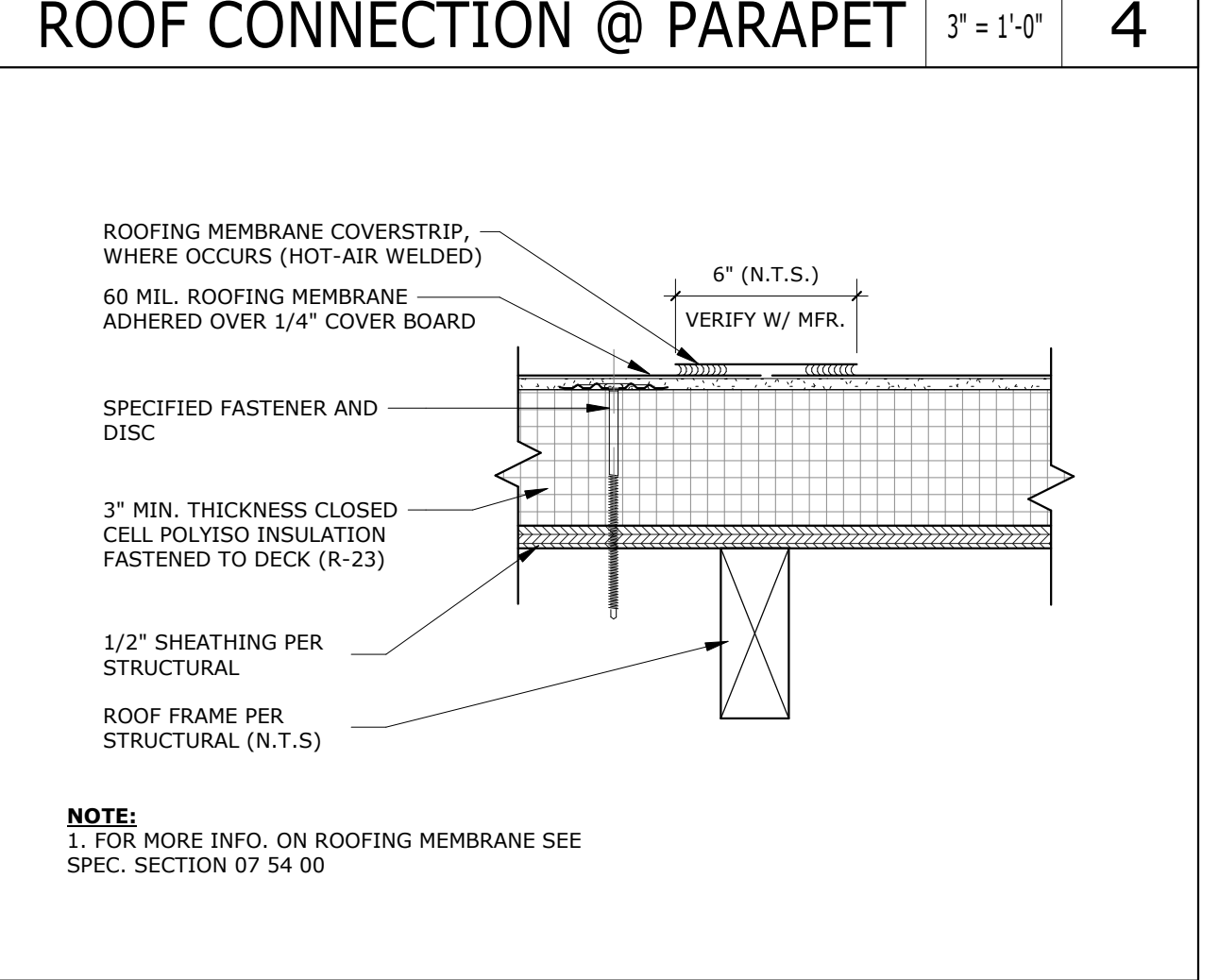
ROOF CONNECTION @ PARAPET SCALE: 3" = 1'-0" 4



THROUGH WALL SCUPPER SCALE: 3" = 1'-0" 15



ROOFING TIE-IN SCALE: N.T.S. 10



TYP ROOF ASSEMBLY SCALE: 3" = 1'-0" 5

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DESIGNED BY	DATE	CHECKED BY	DATE
ADD	ARO	CCD	REV
ADD	ARO	CCD	REV
ADD	ARO	CCD	REV

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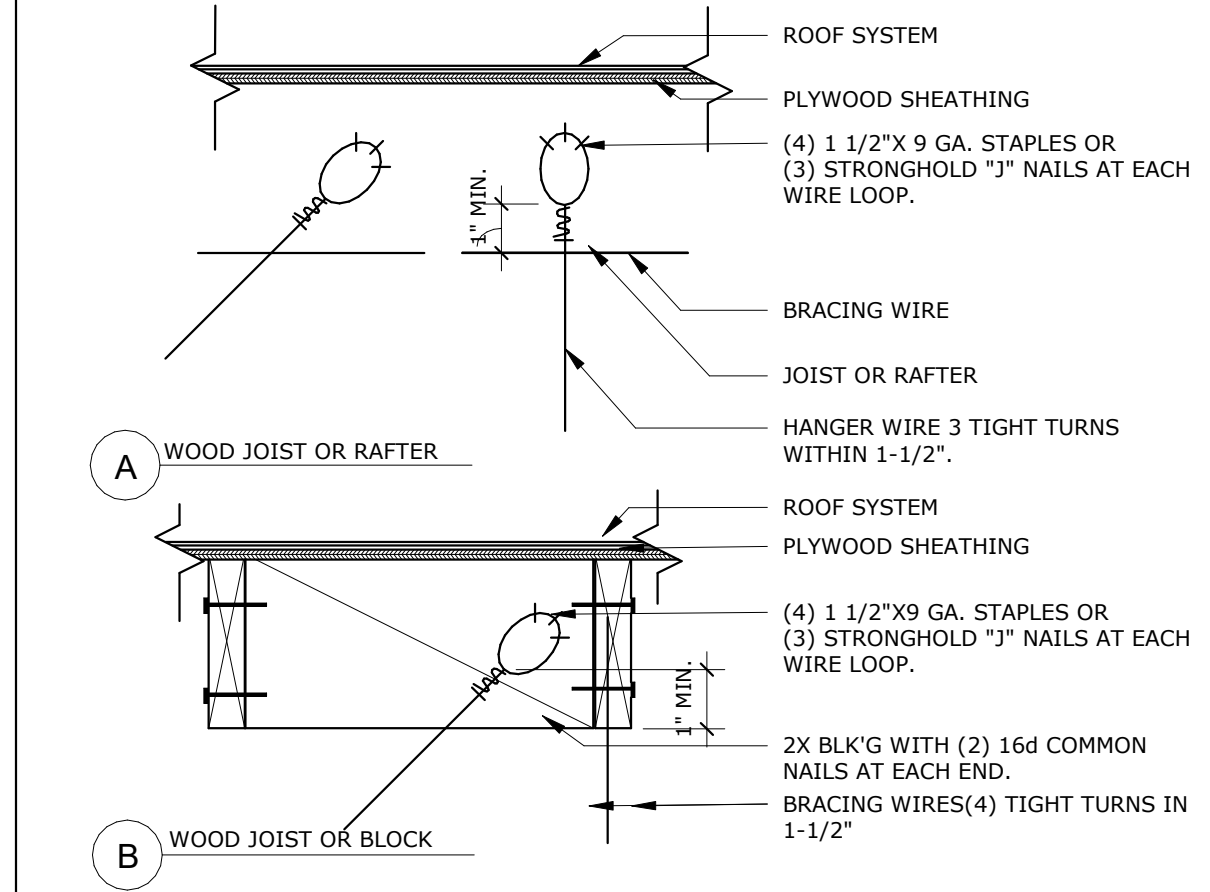
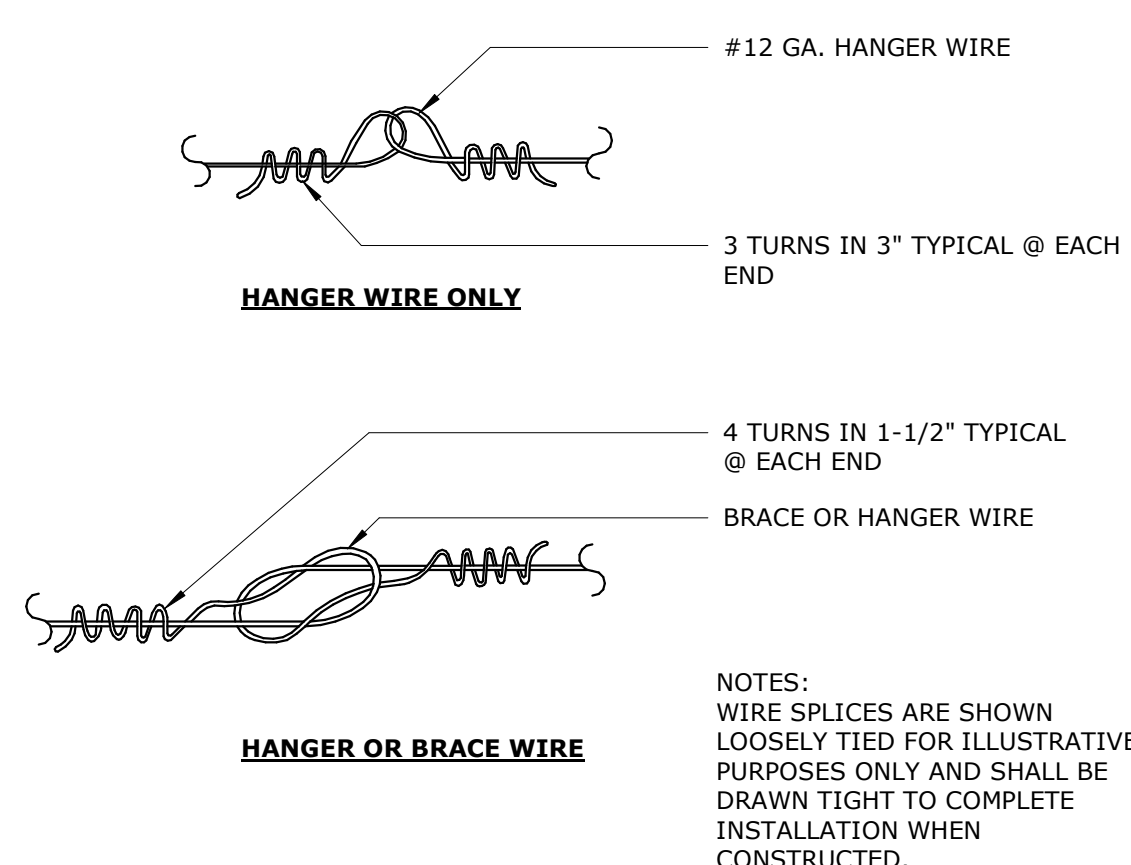
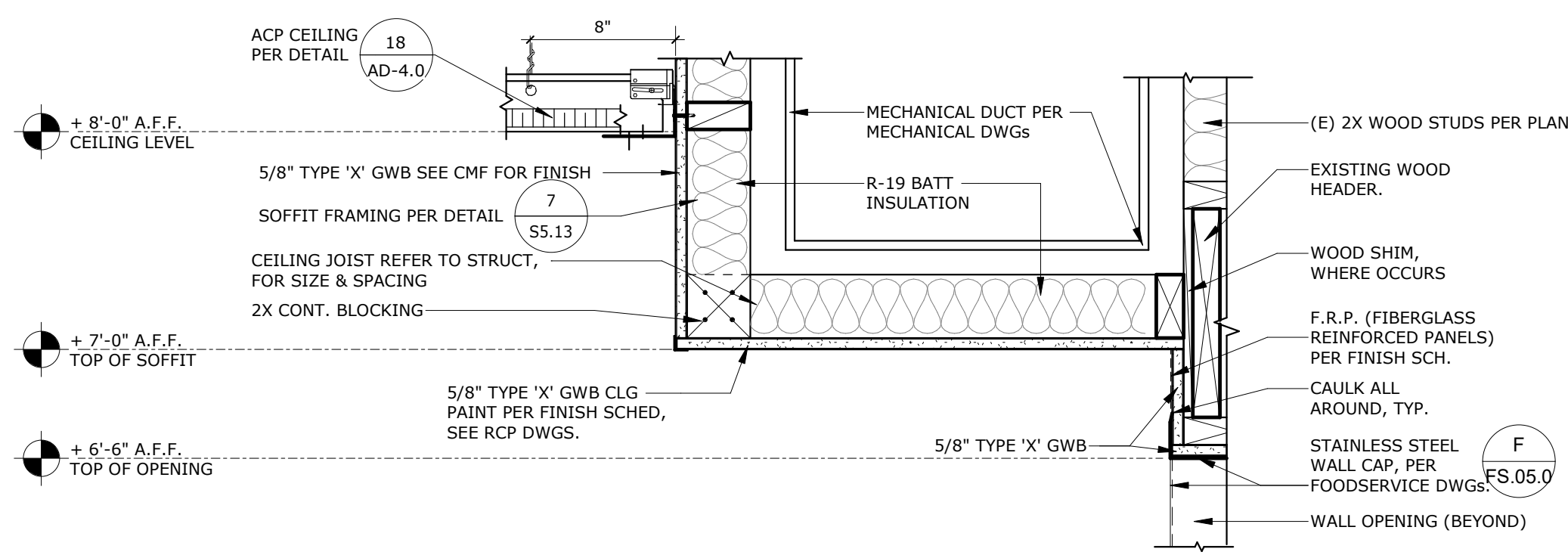
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ROOF DETAILS

AD-3.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



AGENCY APPROVAL
 (4) 1 1/2\"/>

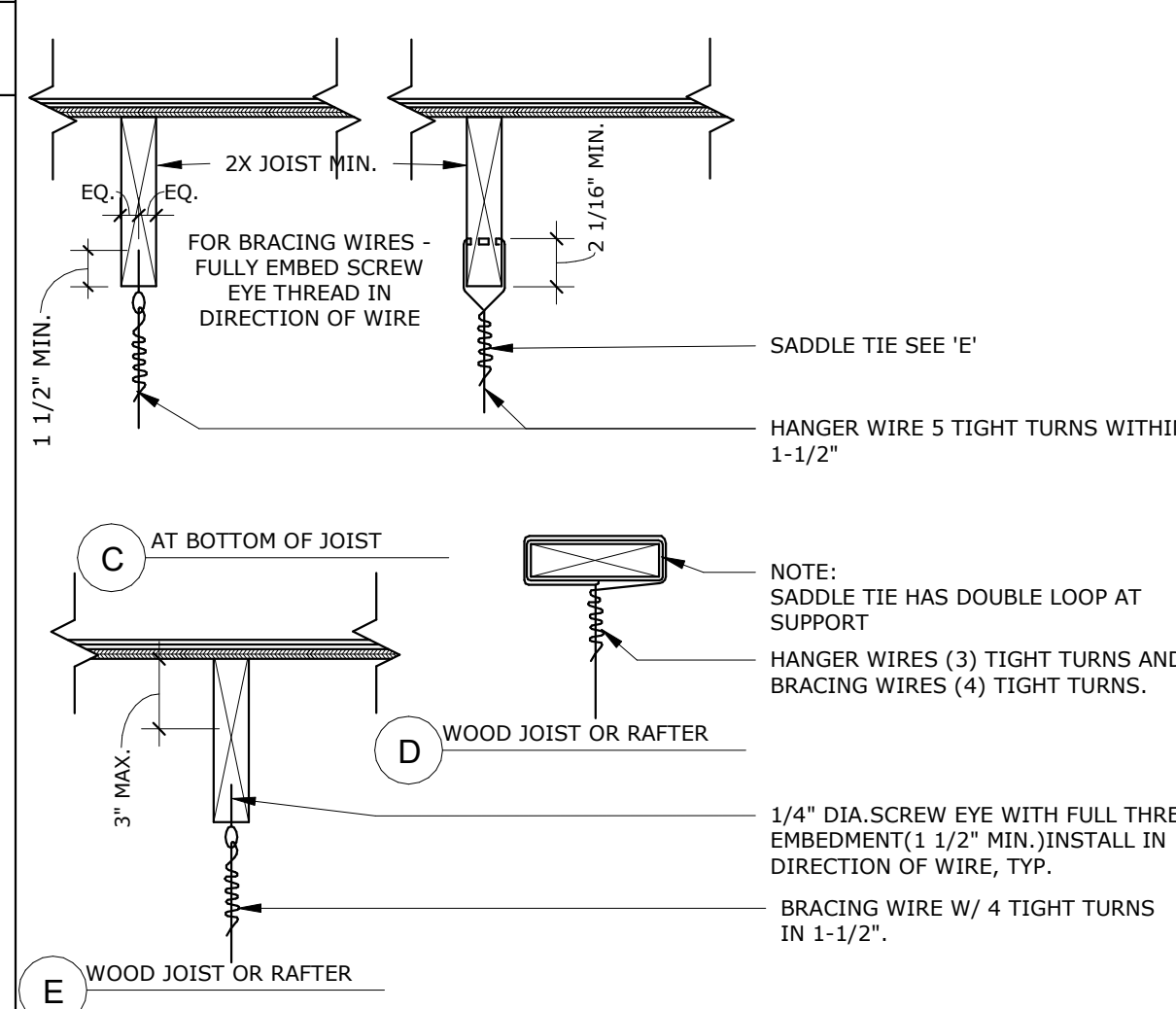
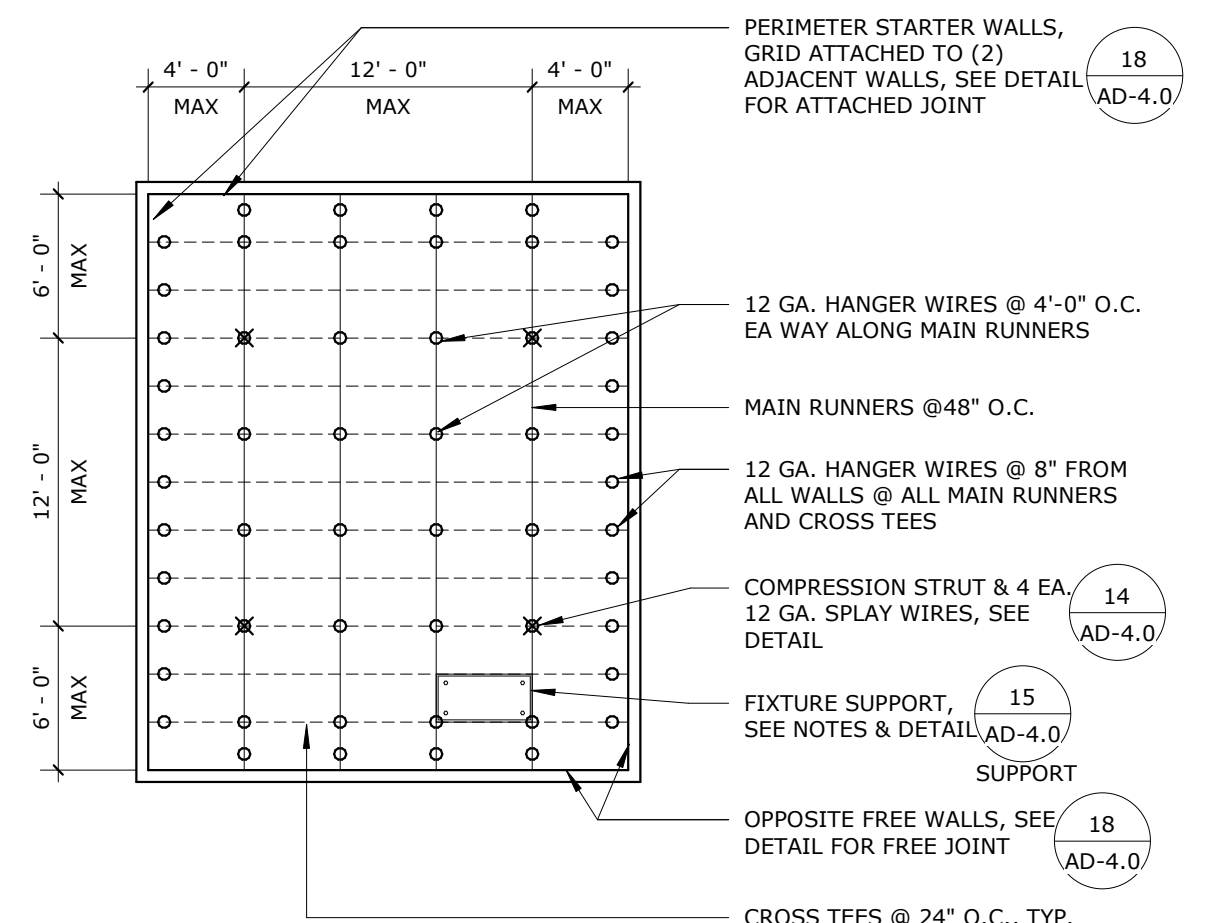
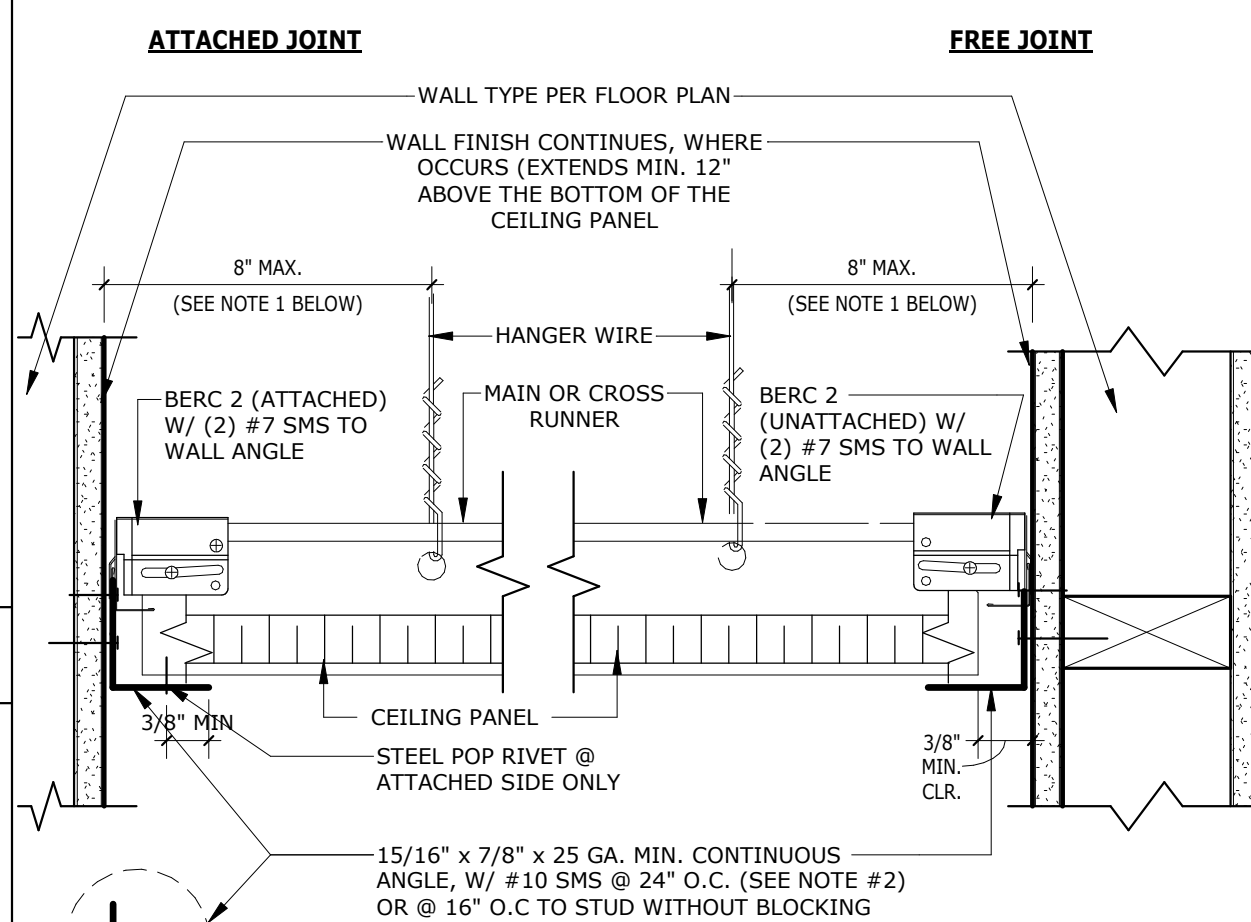
STAMPS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

GYB SOFFIT SCALE: 1 1/2\"/>

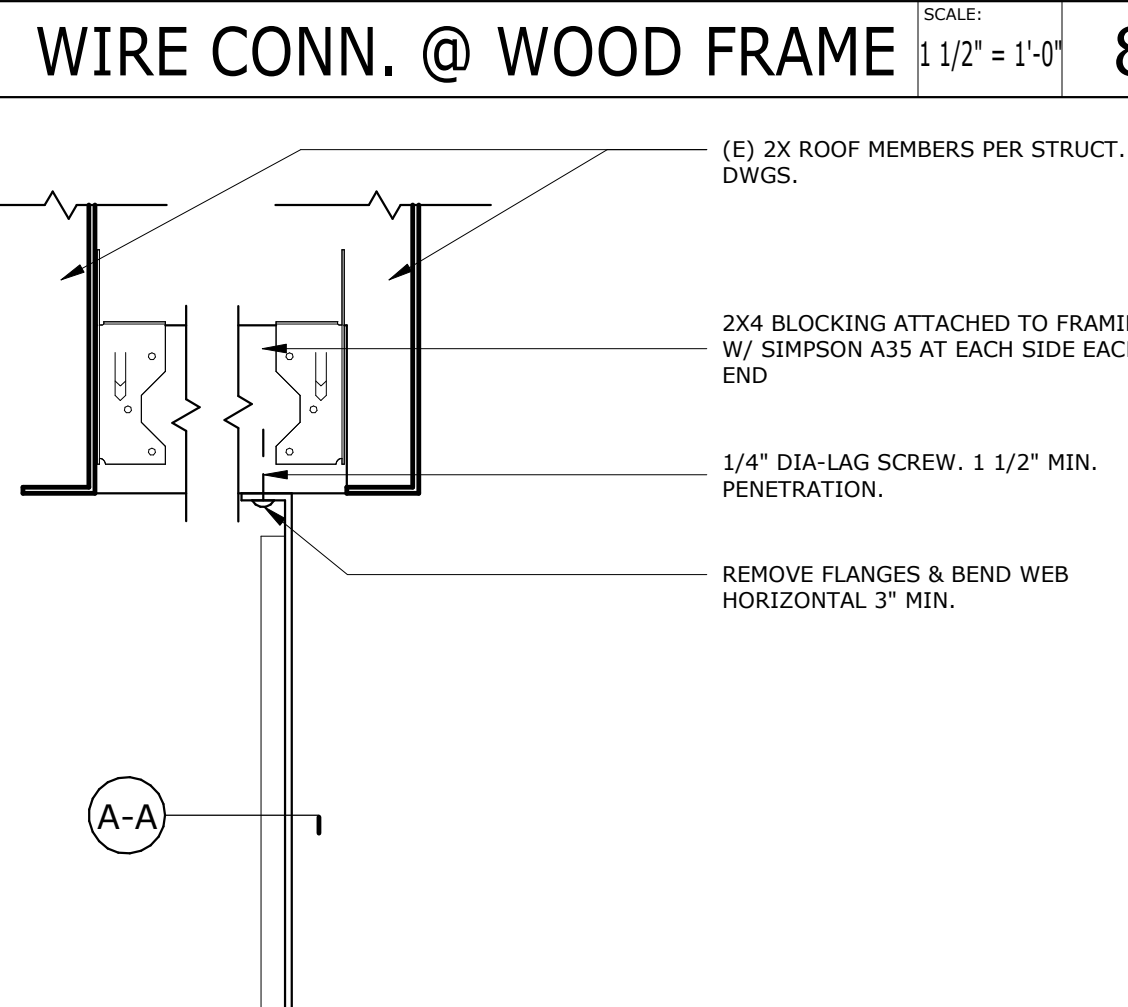
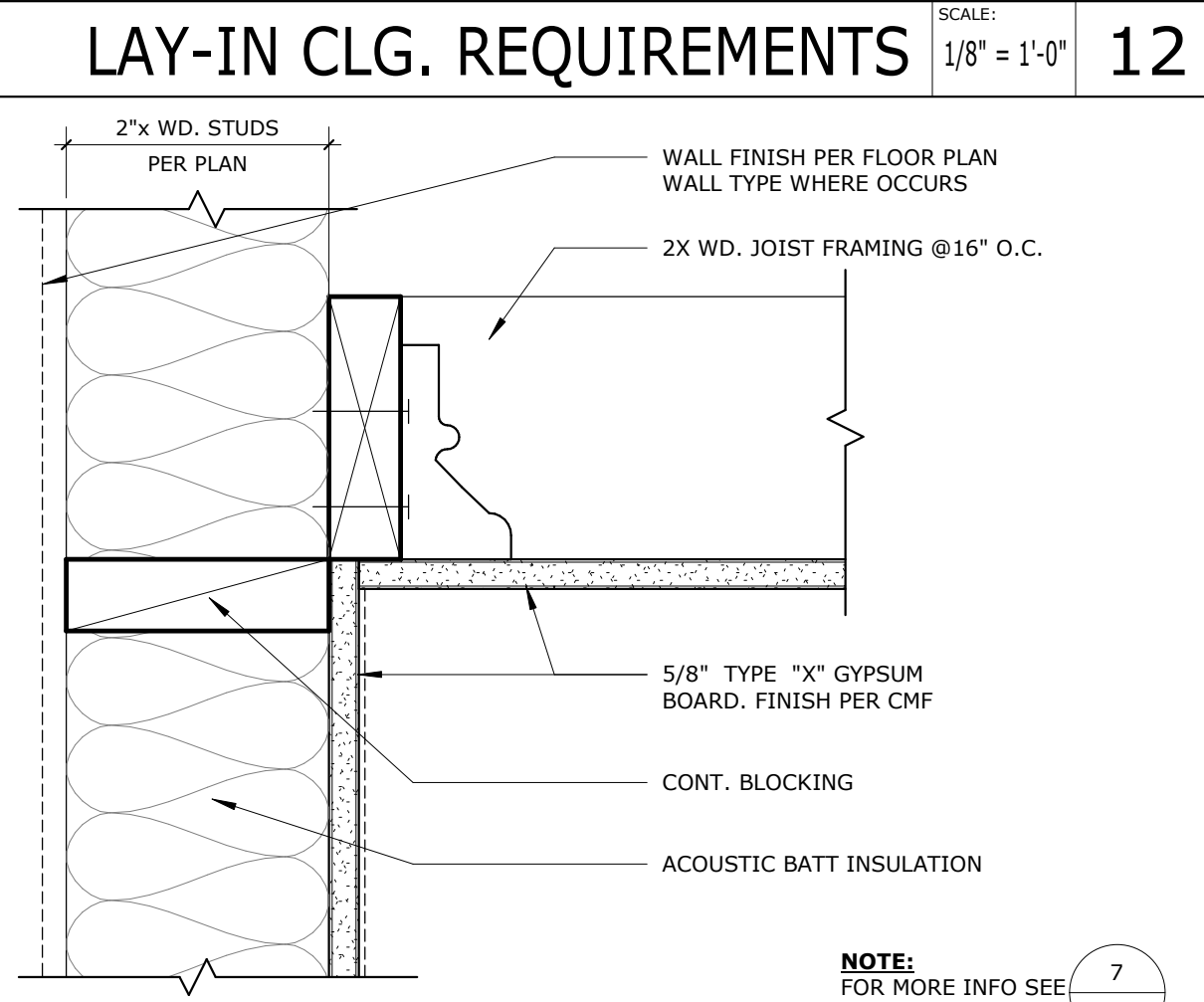
HANGER WIRE DETAIL SCALE: 1 1/2\"/>



LAY-IN CLG. REQUIREMENTS SCALE: 1/8\"/>

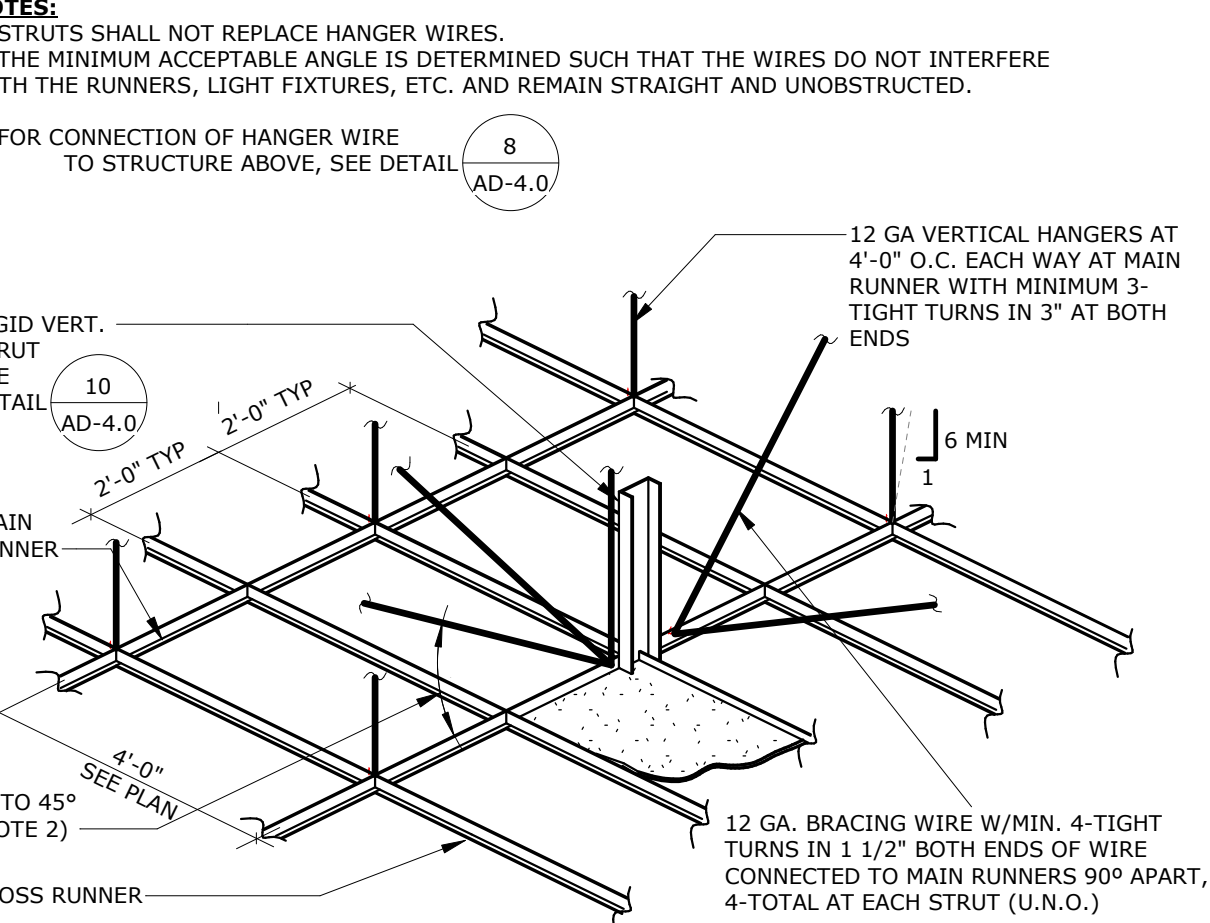
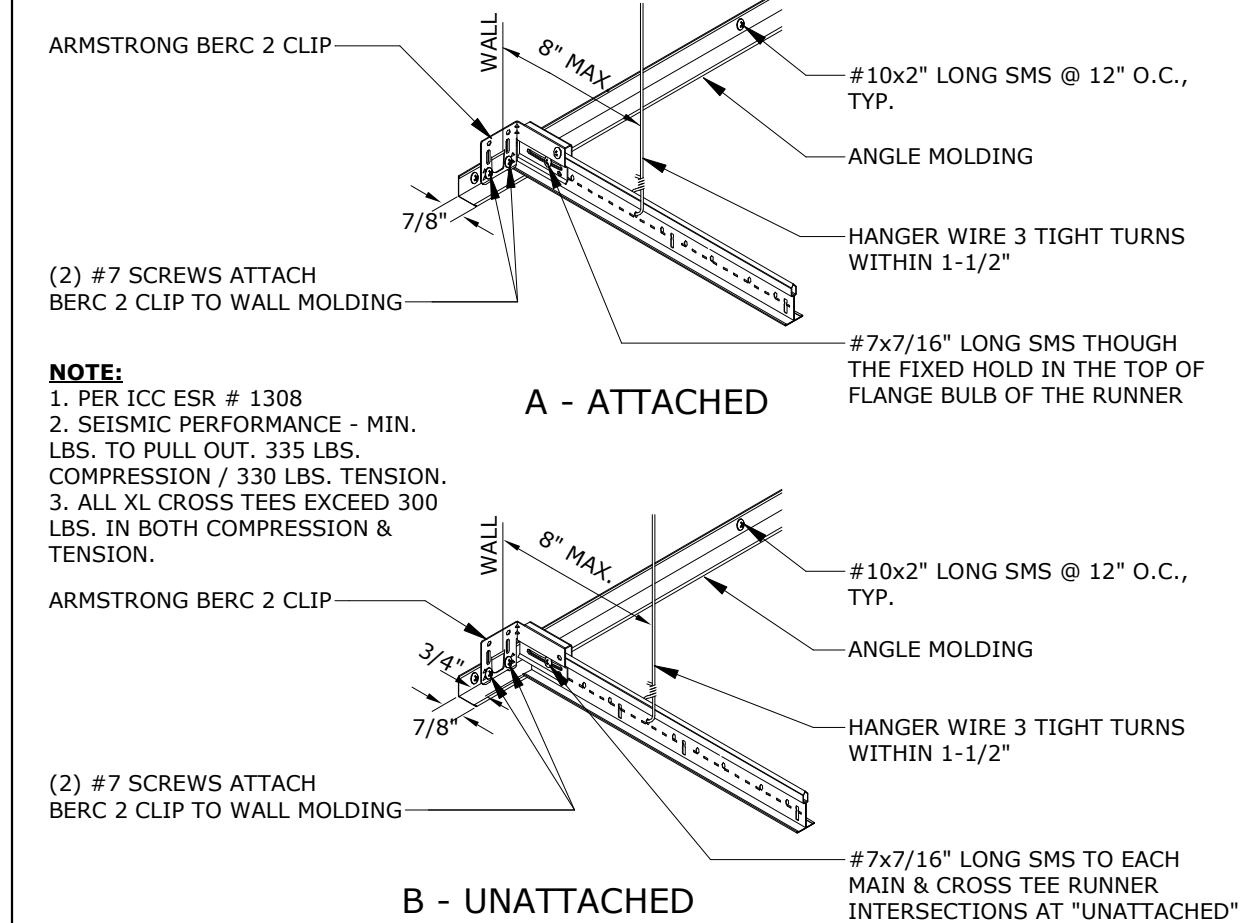
WIRE CONN. @ WOOD FRAME SCALE: 1 1/2\"/>

- NOTES:**
- PROVIDE #12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS. FOR THE PERIMETER OF THE CEILING AREA, PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
 - PROVIDE CONT. 2X WOOD BLOCKING ALL SIDES
 - ICC ESR-1308



CEILING PERIMETER @ WALL SCALE: 3\"/>

GYPSUM BOARD CEILING SCALE: 3\"/>



COMPRESSION STRUT TABLE

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

TR 25-2.13 COMPRESSION STRUT TABLE ON SHEET No. 3.21.

MINIMUM STUD PROPERTIES

STRUT	AREA	Sx	Ix
250S125-33	0.176 in ²	0.142 in ³	0.178 in ⁴

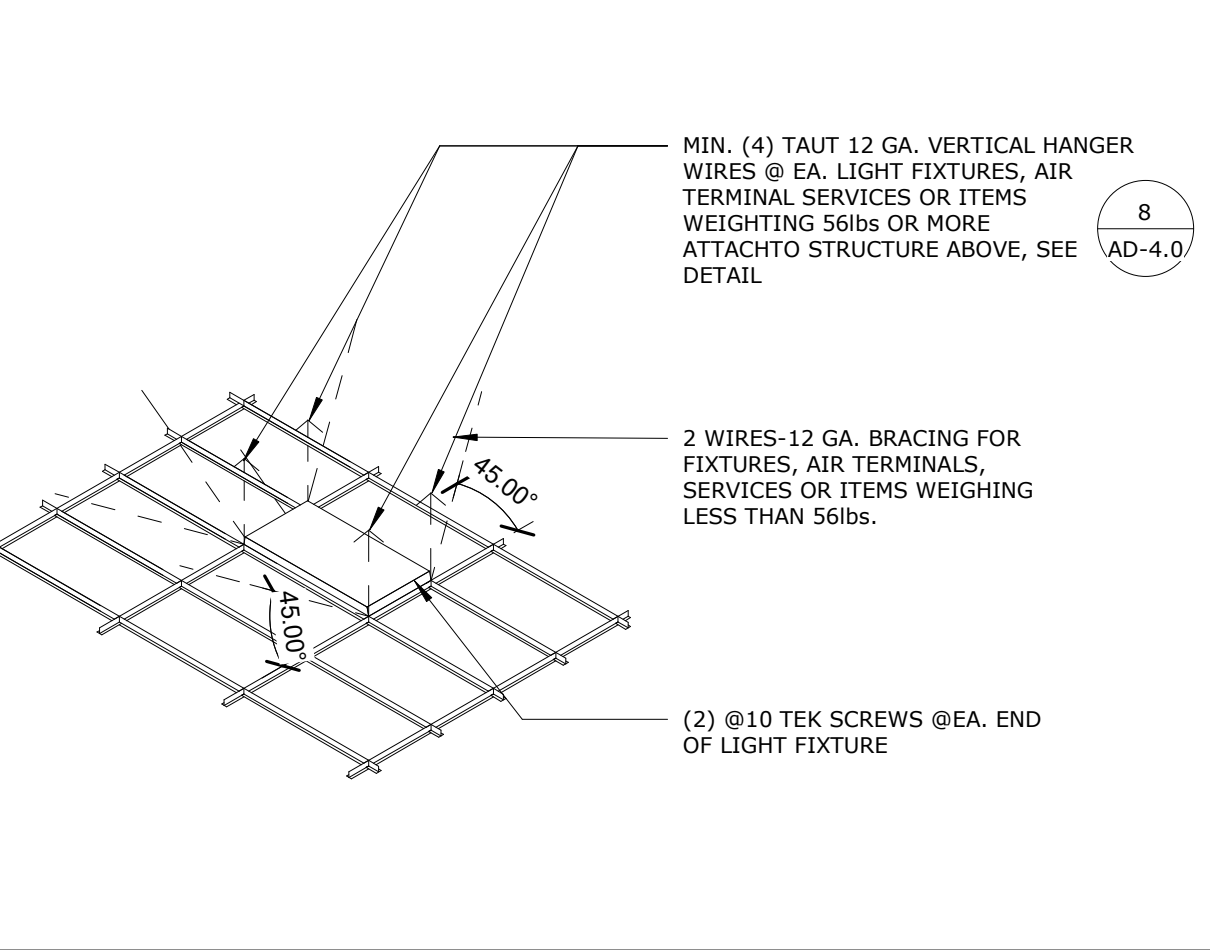
NOTES:

- COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRES.
- COMPRESSION STRUTS ATTACHED AS SHOWN, SHALL BE PROVIDED AT BRACING POINTS (U.N.O.)

CEILING ANGLES @ WALL SCALE: 1 1/2\"/>

CEILING SPLAY BRACING SCALE: 3\"/>

COMPRESSION STRUT SCALE: 3\"/>



METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS: 2022 CBC (PER DSA IR 25-2)

CEILING SYSTEM GENERAL NOTES:

- CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
- THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
- CEILING SYSTEMS, THE FOLLOWING CEILING SYSTEM (S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

ACT ONLY:
 MANUFACTURER'S NAME: ARMSTRONG WORLD INDUSTRIES
 PRODUCT EVALUATION REPORT TYPE AND NUMBER: ICC ESR-1308
 MANUFACTURER'S MODEL NUMBER - MAIN RUNNER: 7301
 MANUFACTURER'S CATALOG NUMBER-CROSS RUNNER: XL7341, XL7328

- SEISMIC WALL CLIP, MANUFACTURER'S MODEL: BERG2
- CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
- FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4\"/>

2. MATERIALS:

- CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106\"/>

TABLE 1 LATERAL FORCE BRACE ASSEMBLY SPACING

DESIGN SPECTRAL ACCELERATION PARAMETER, S _{DS}	BRACE ASSEMBLY SPACING (R.)	
S _{DS} ≤ 0.5 ^a	z/h ≤ 0.5 ^b	z/h > 0.5 ^b
0.5 < S _{DS} ≤ 1.73	12x12	12x12
1.73 < S _{DS} ≤ 2.73	12x12	8x12
S _{DS} > 2.73	8x12	8x8

FOOTNOTES:

- WHEREAS DEFINED IN ASCE 7, SECTION 13.3.1.1.
- HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING WITH RESPECT TO THE BASE.
- AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
- IT SHALL BE PERMITTED TO USE THE BRACE ASSEMBLY SPACING FOR "z/h > 0.5" FOR THE FULL BUILDING HEIGHT.

CEILING REQUIREMENTS SCALE: 1/4\"/>

LIGHT FIXTURE SUPPORT SCALE: 1/4\"/>

CEILING REQUIREMENTS SCALE: 1/4\"/>

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DATE	BY	REVISION

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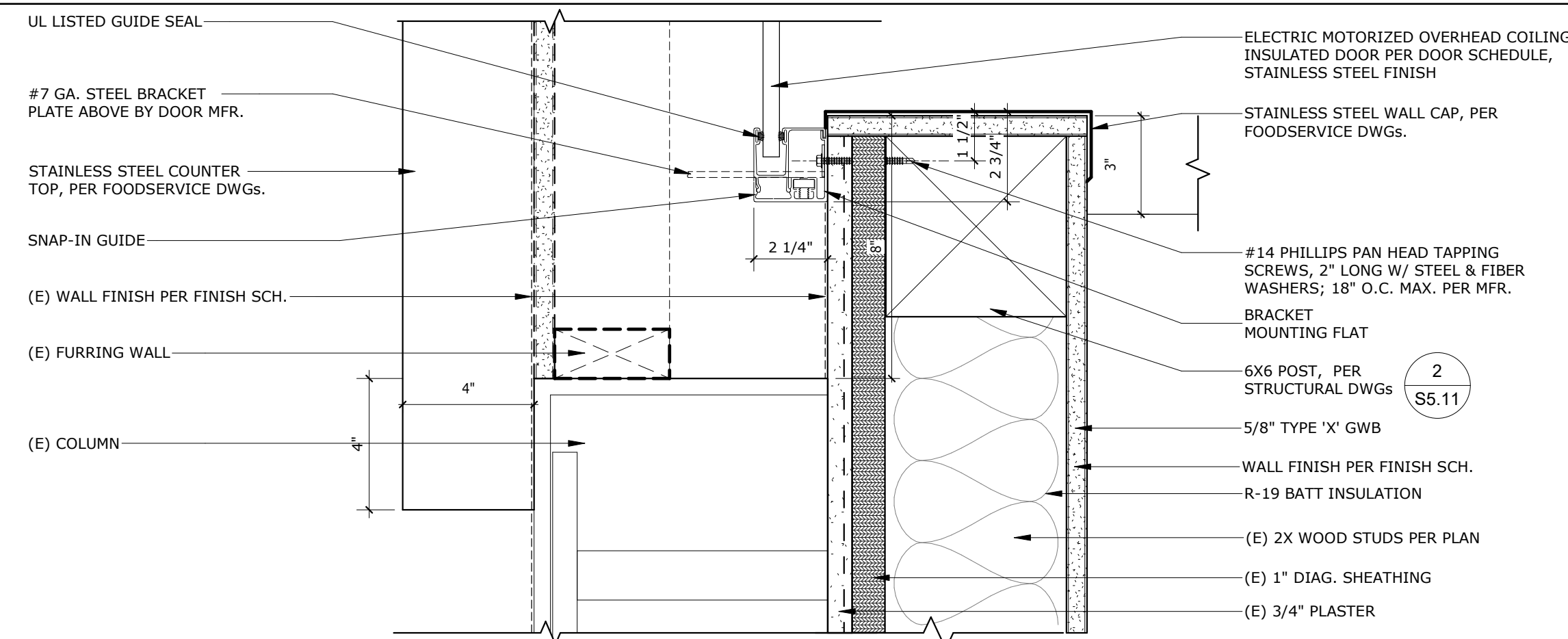
KITCHEN UPGRADES AT JOYCE E.S.

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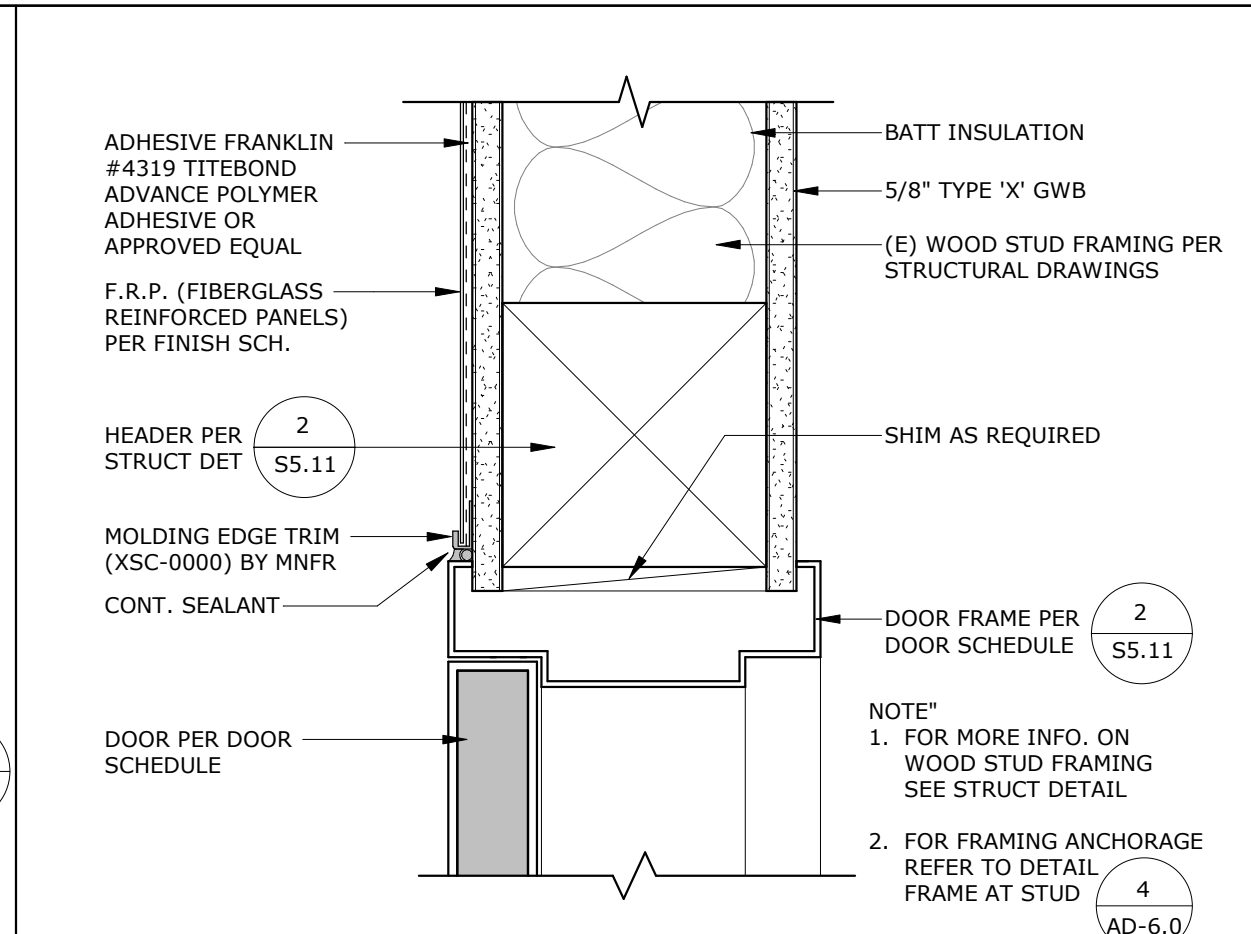
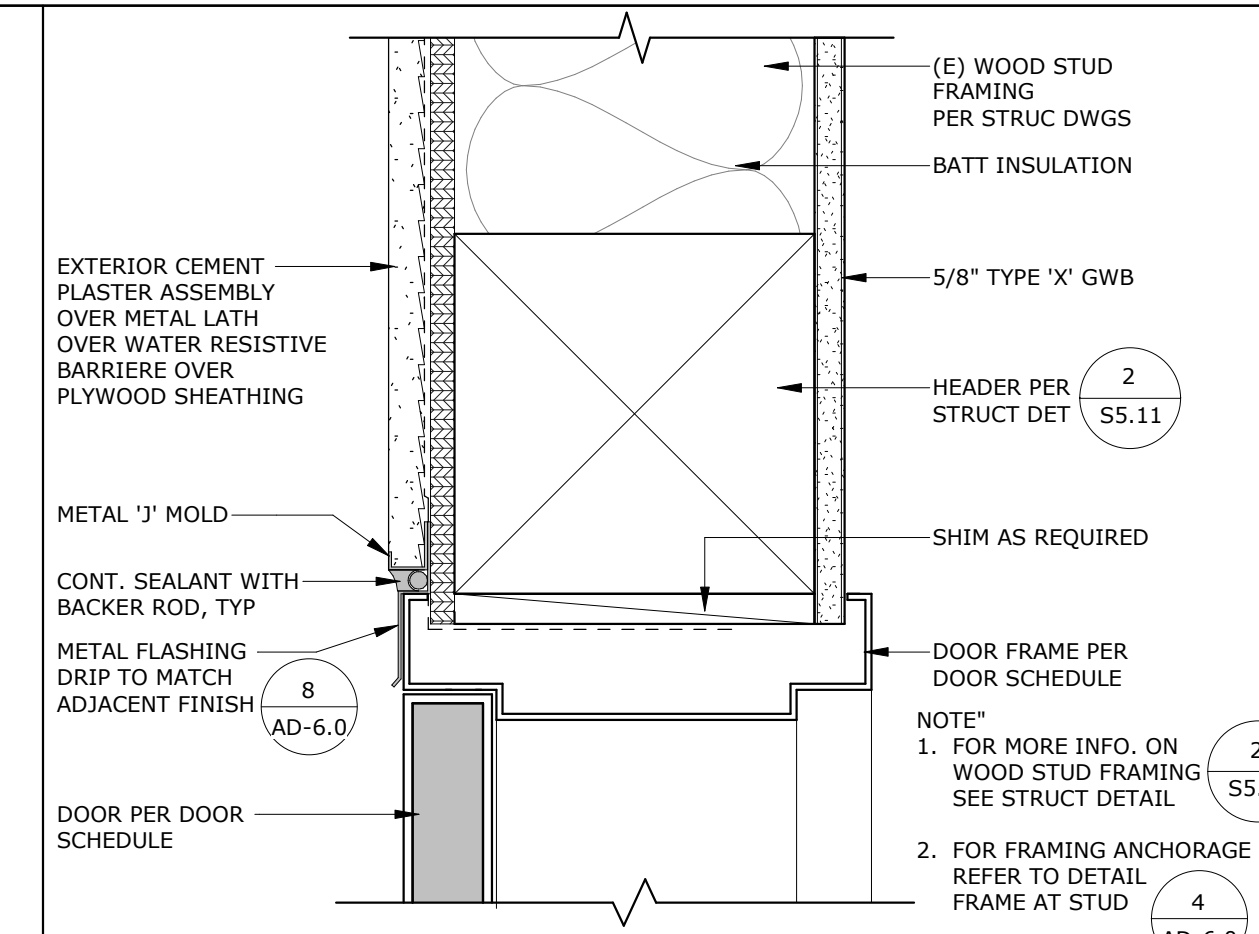
CEILING DETAILS AD-4.0

1-104-01

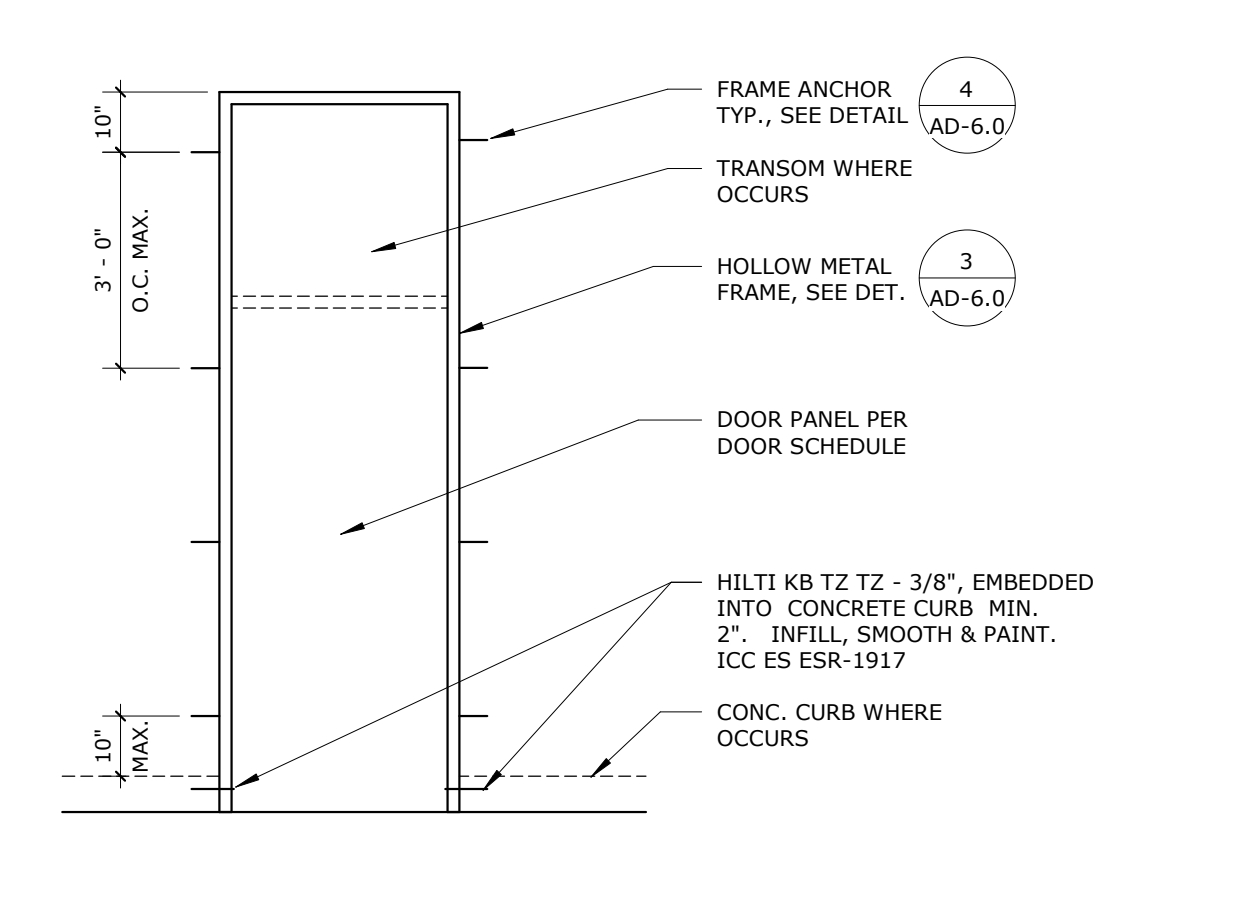
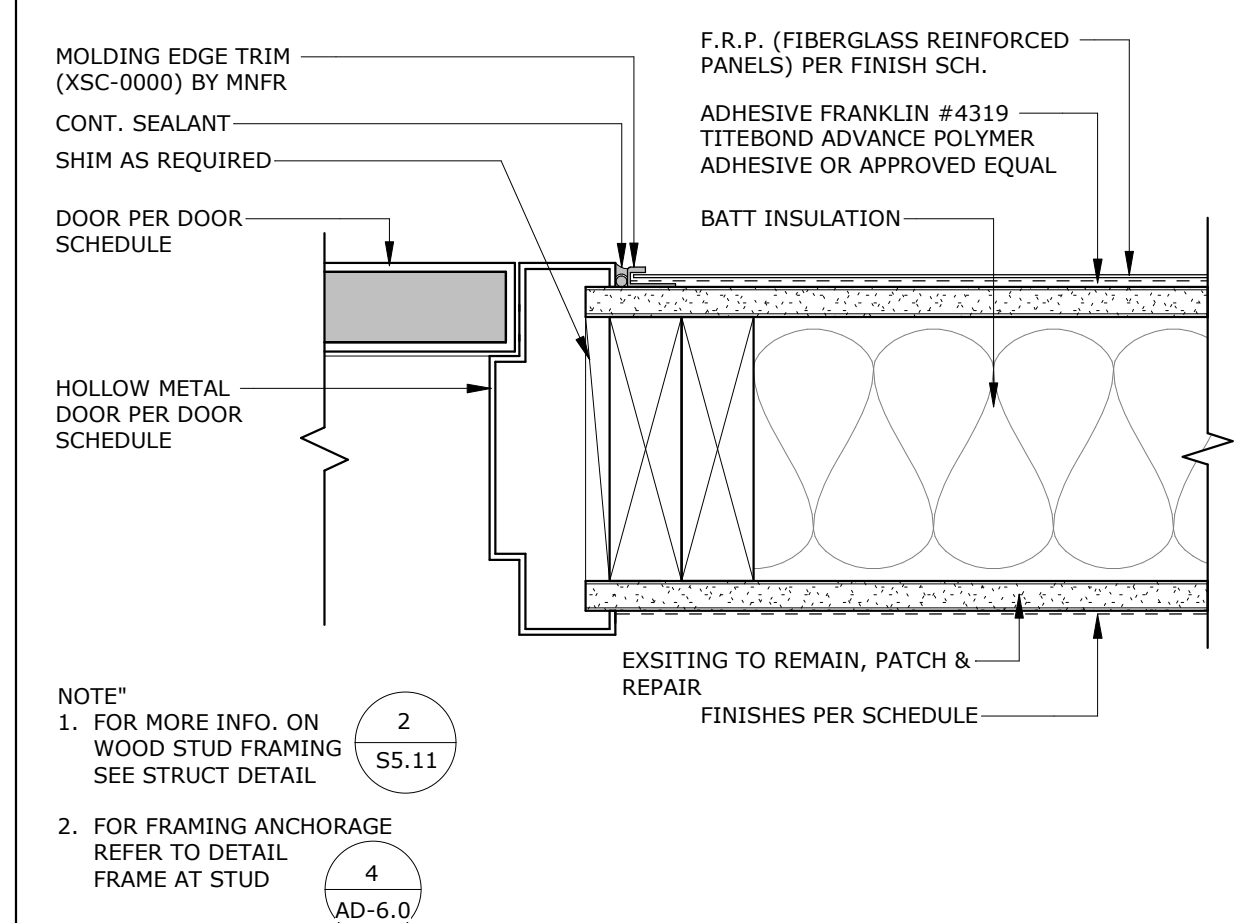
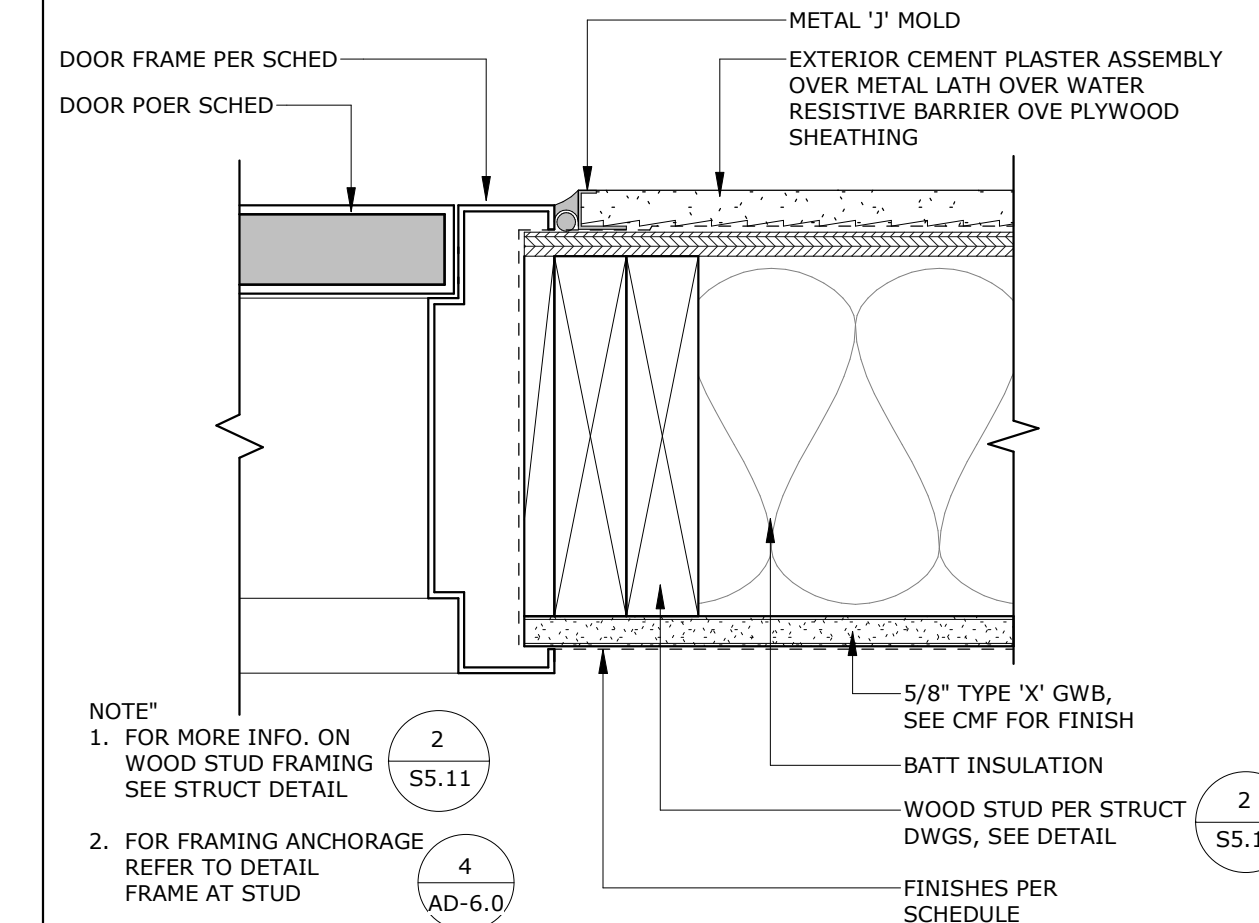
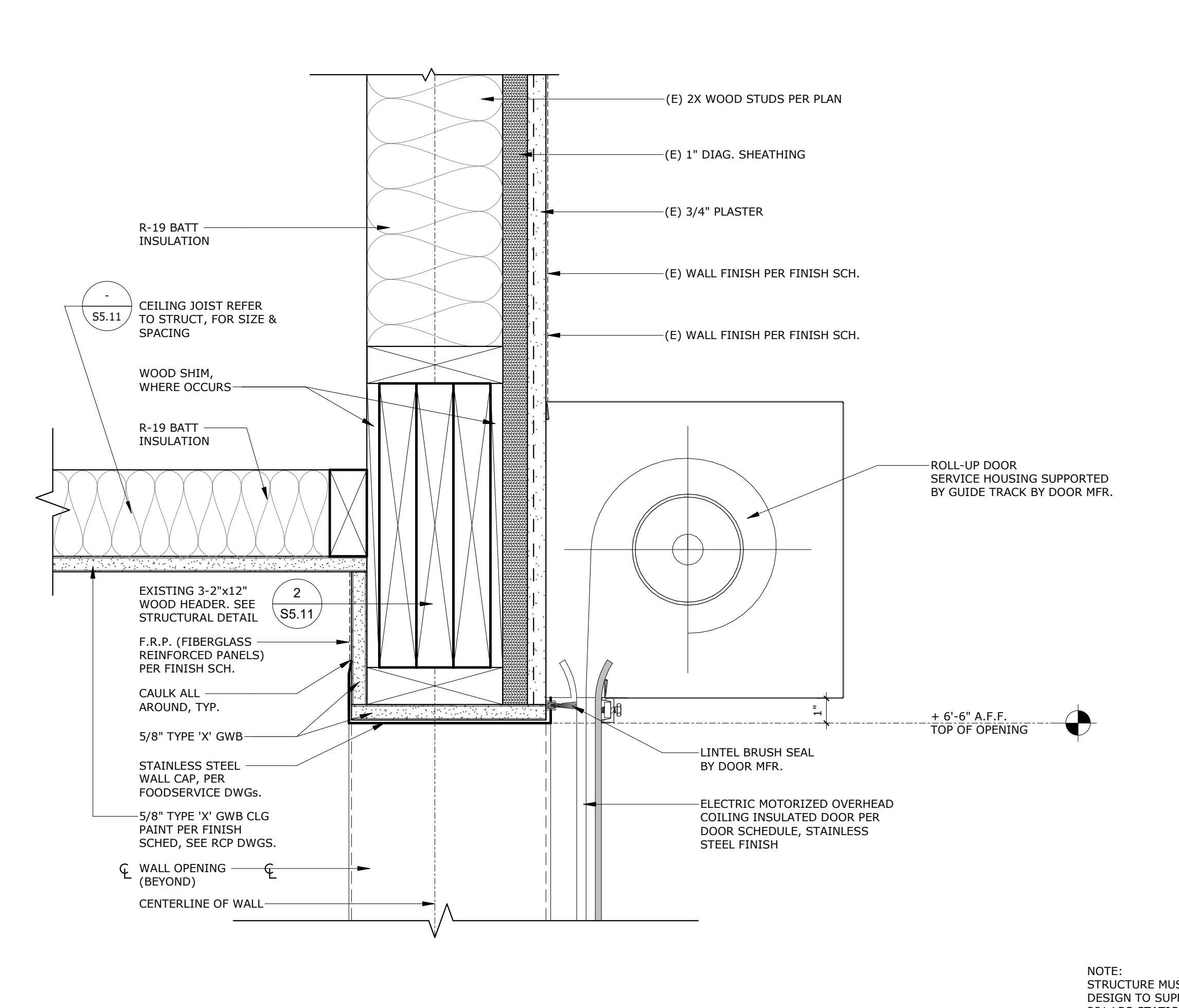
KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24



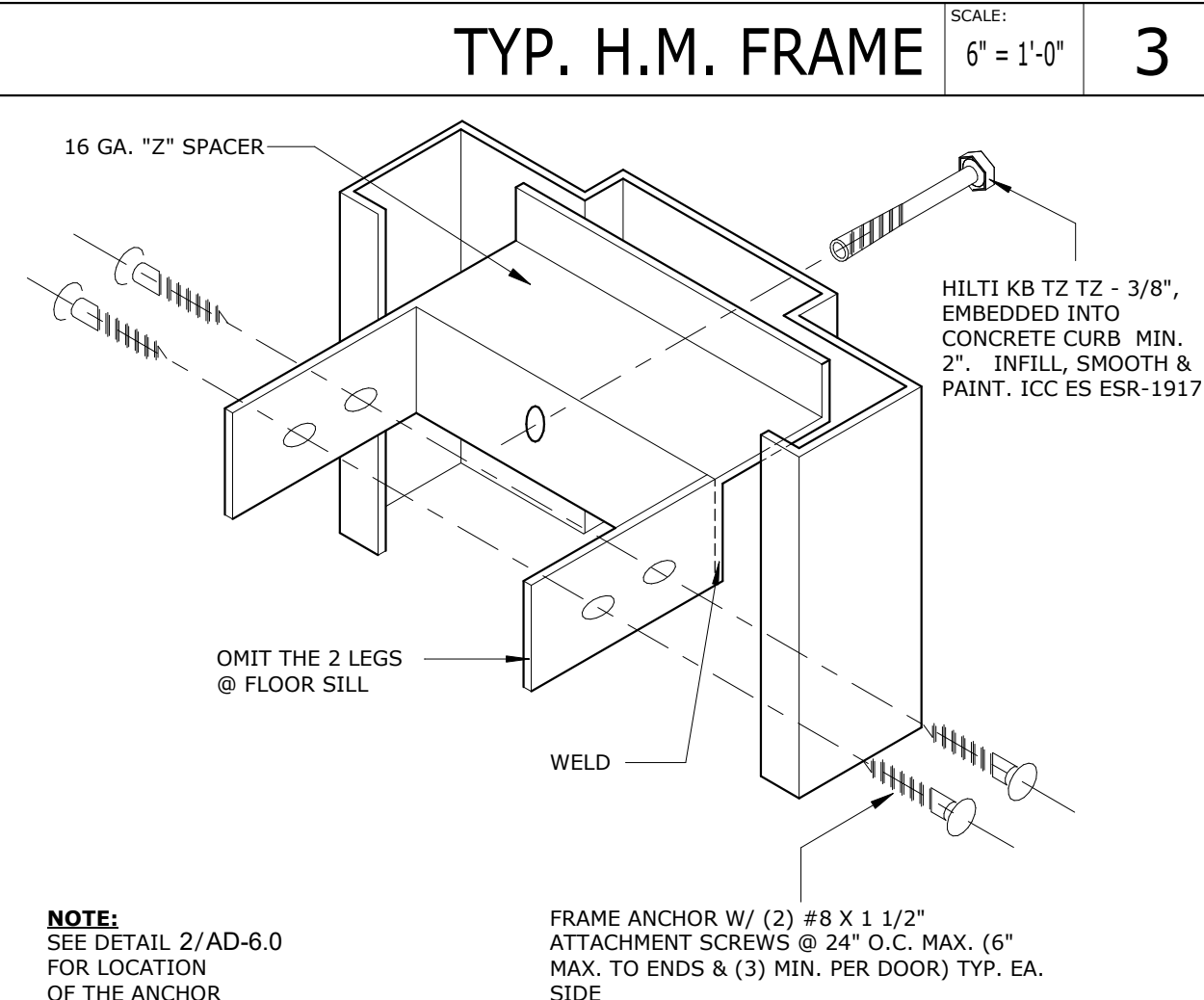
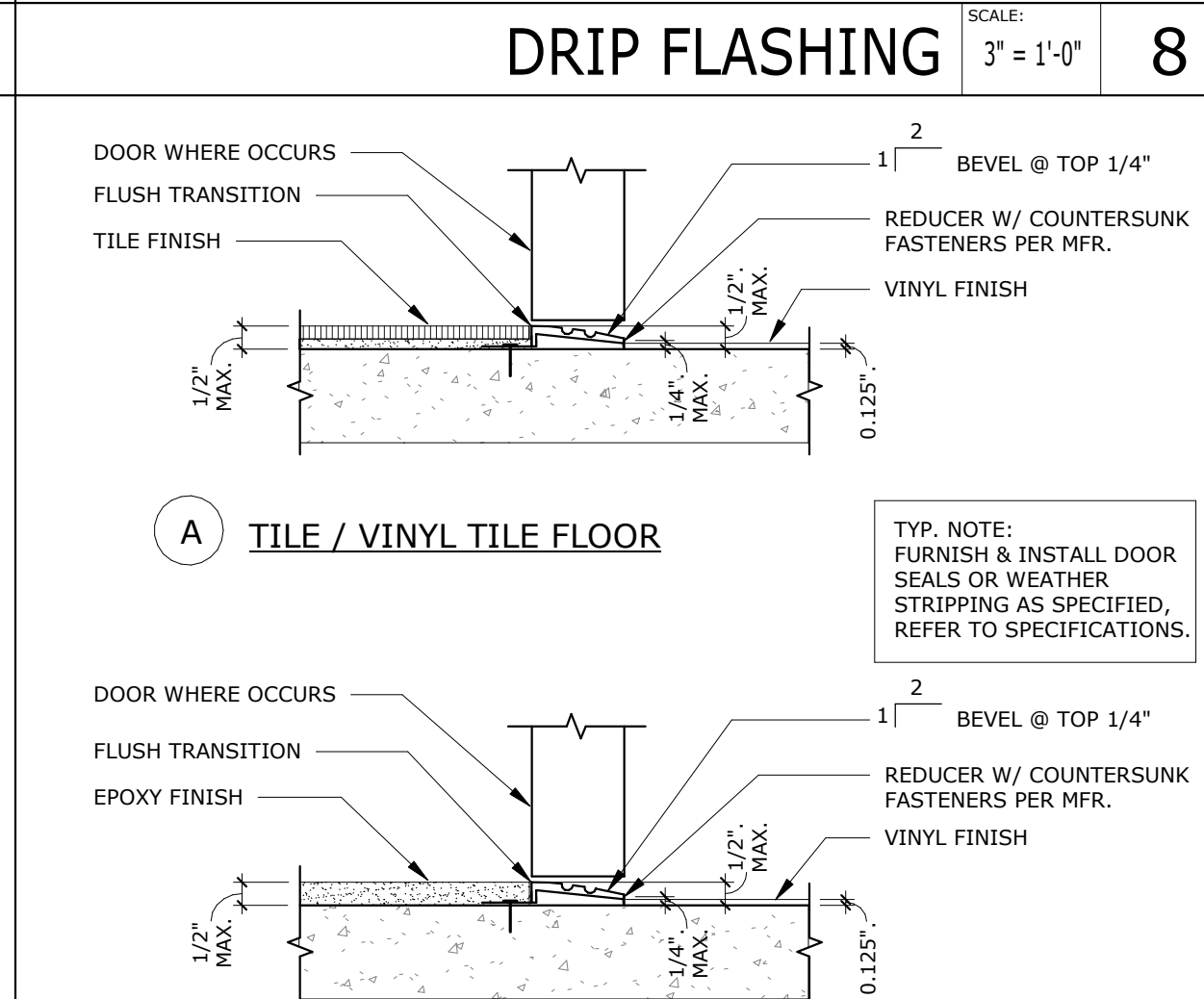
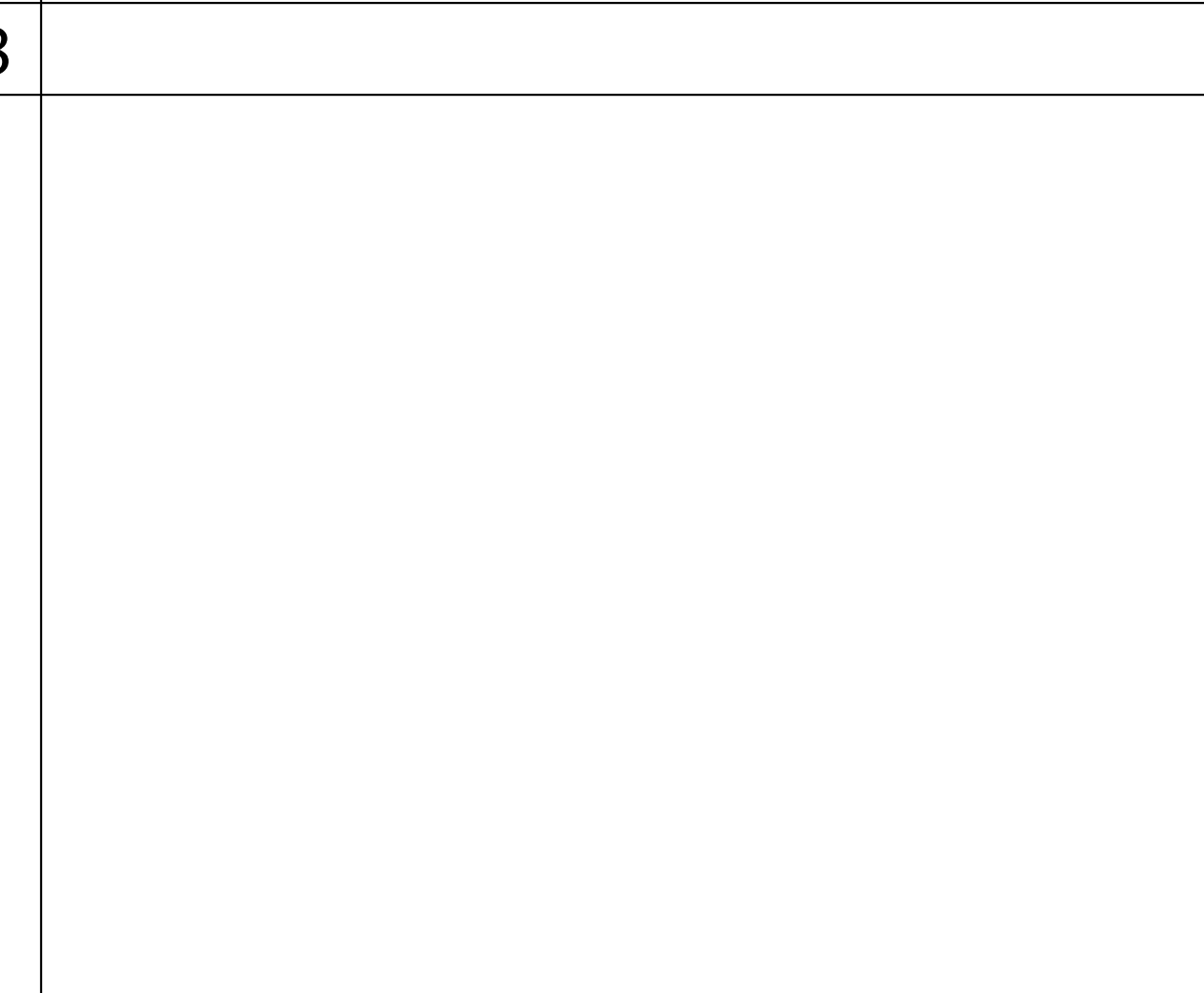
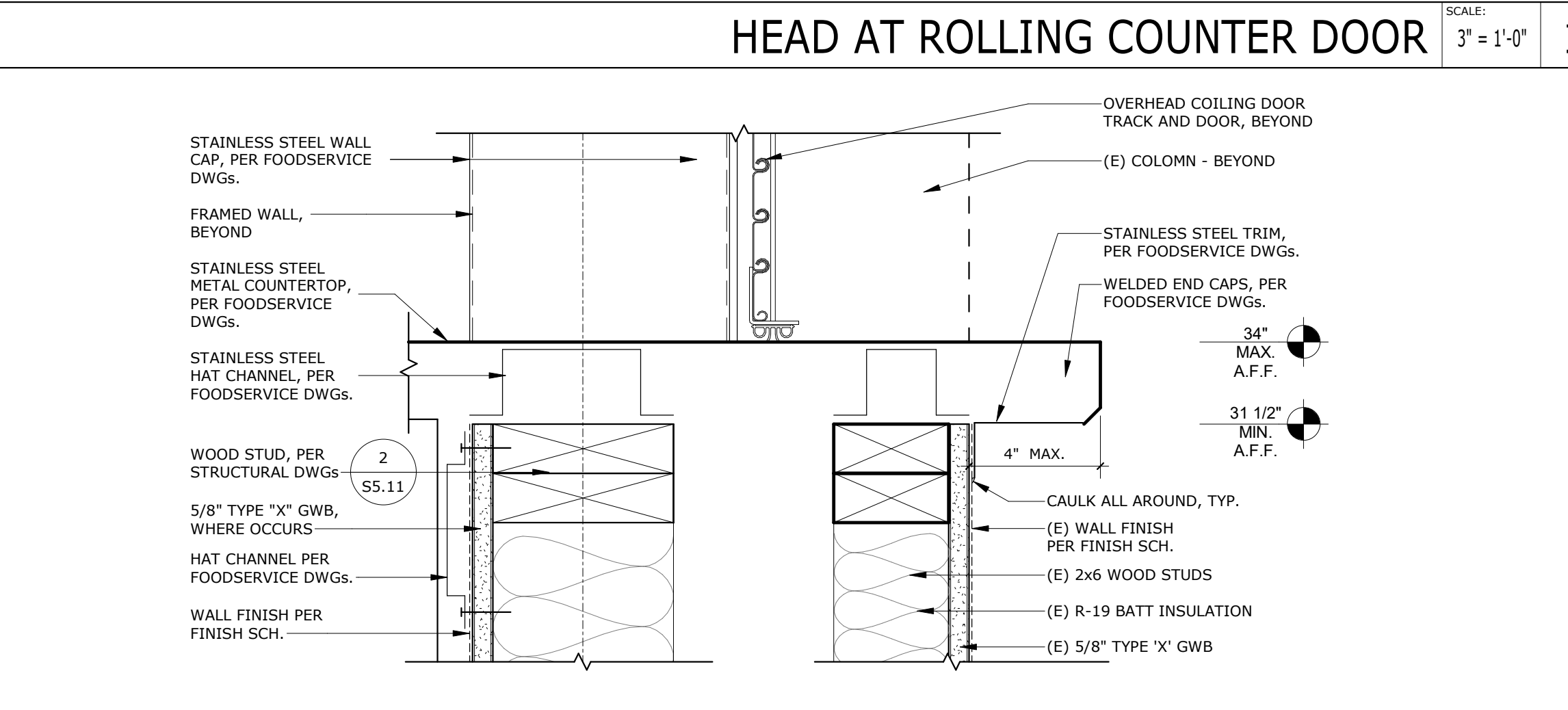
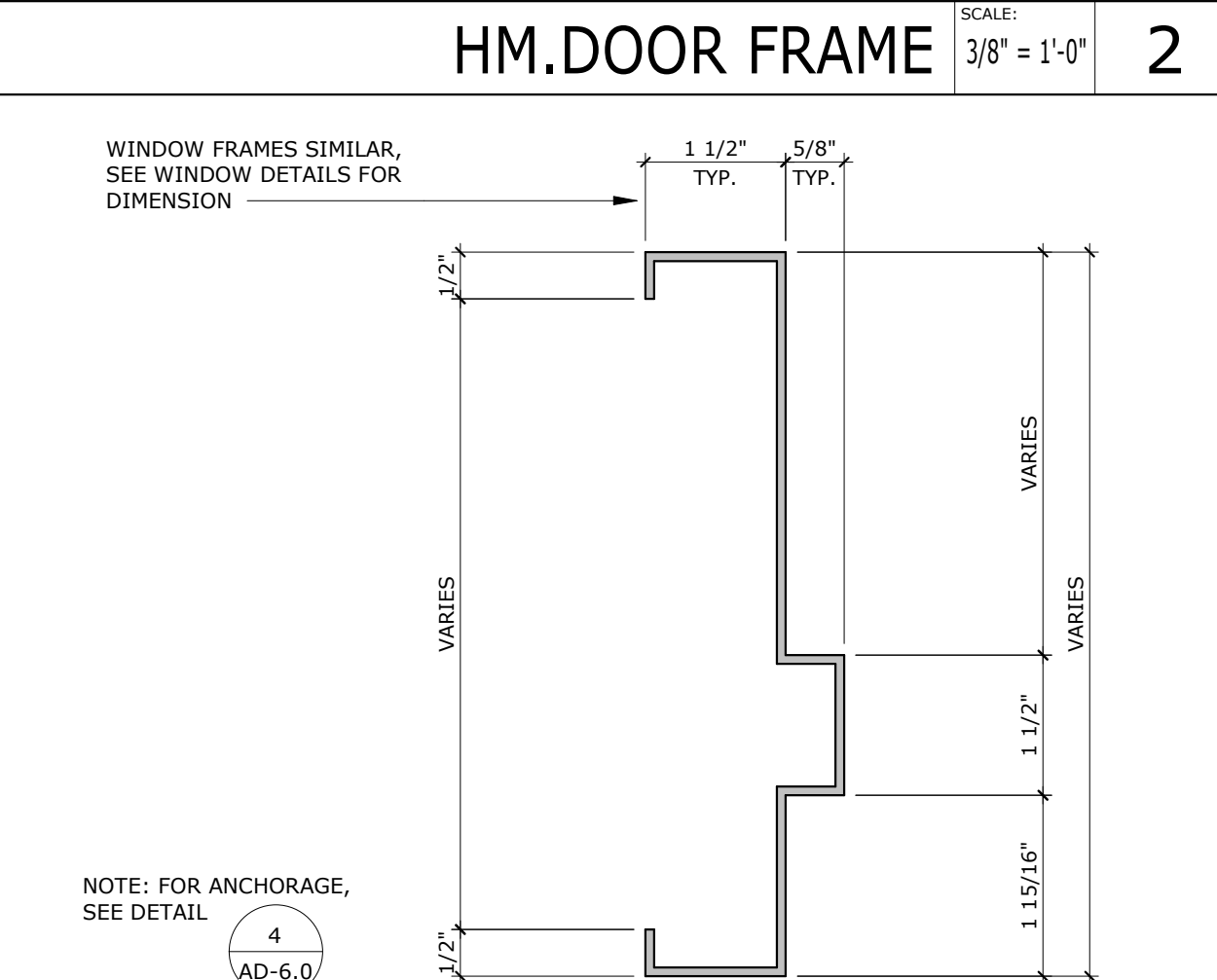
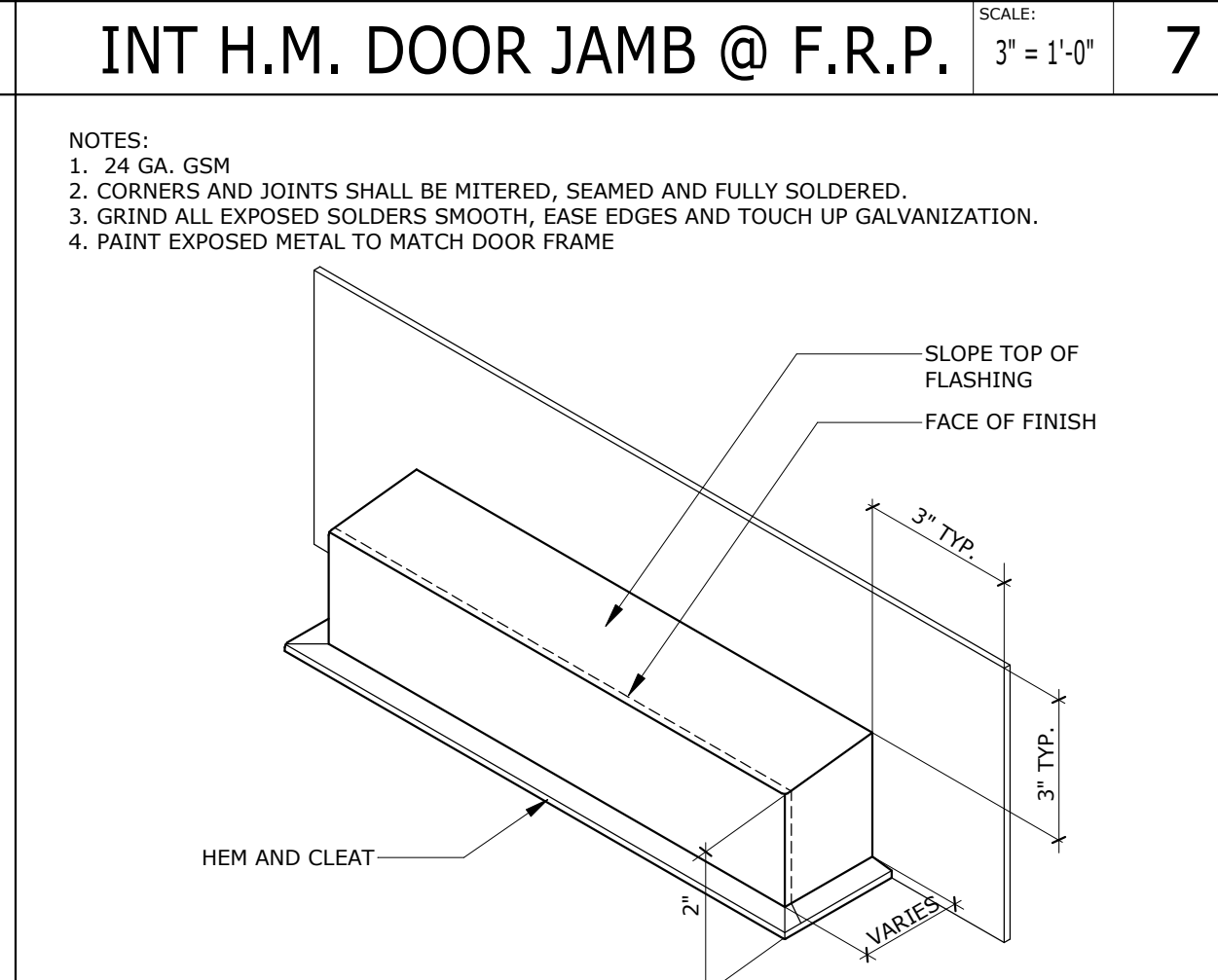
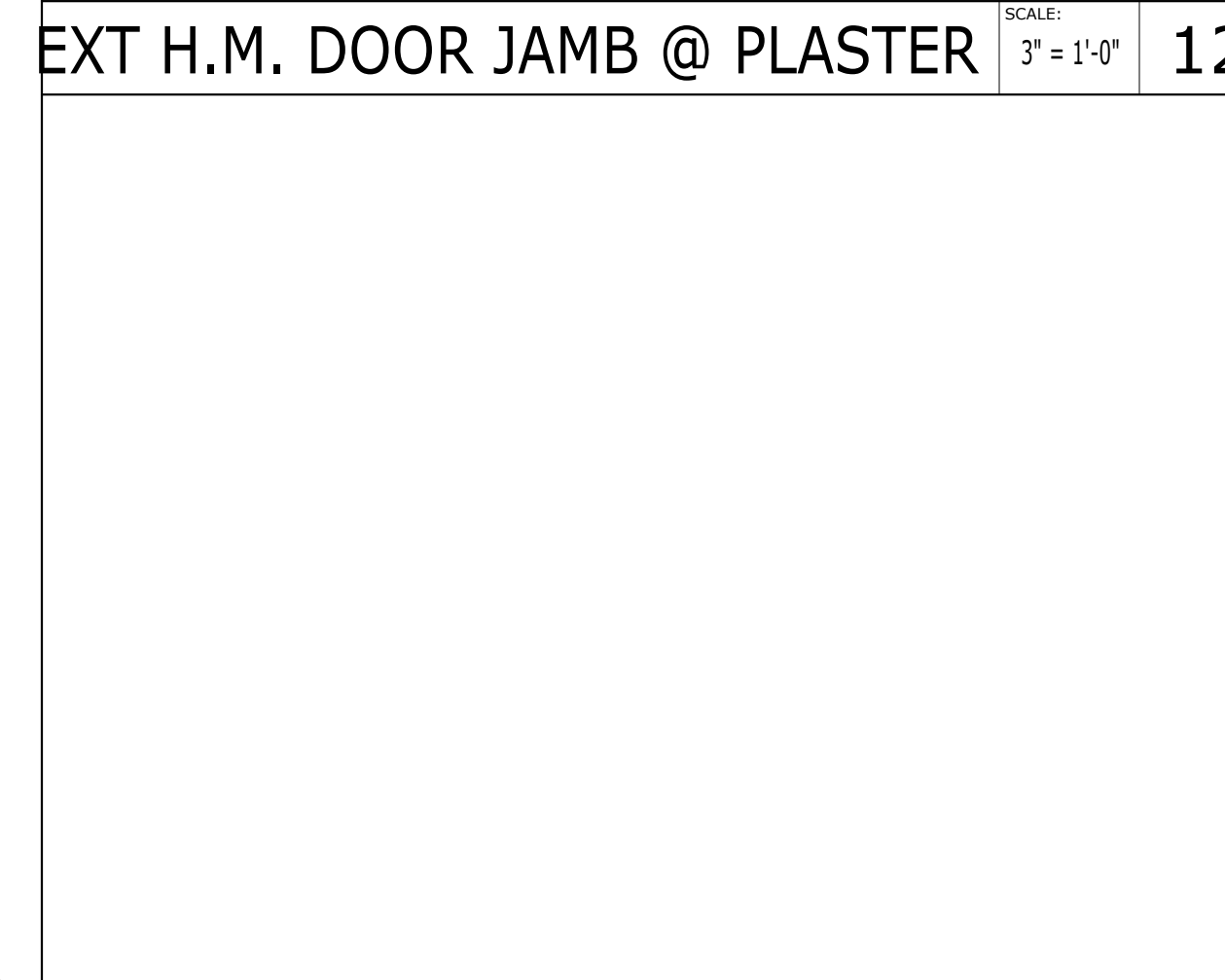
JAMB AT ROLLING COUNTER DOOR SCALE: 3" = 1'-0" 16 EXT H.M. DOOR HEAD @ PLASTER SCALE: 3" = 1'-0" 11 INT H.M. DOOR HEAD @ F.R.P. SCALE: 3" = 1'-0" 6



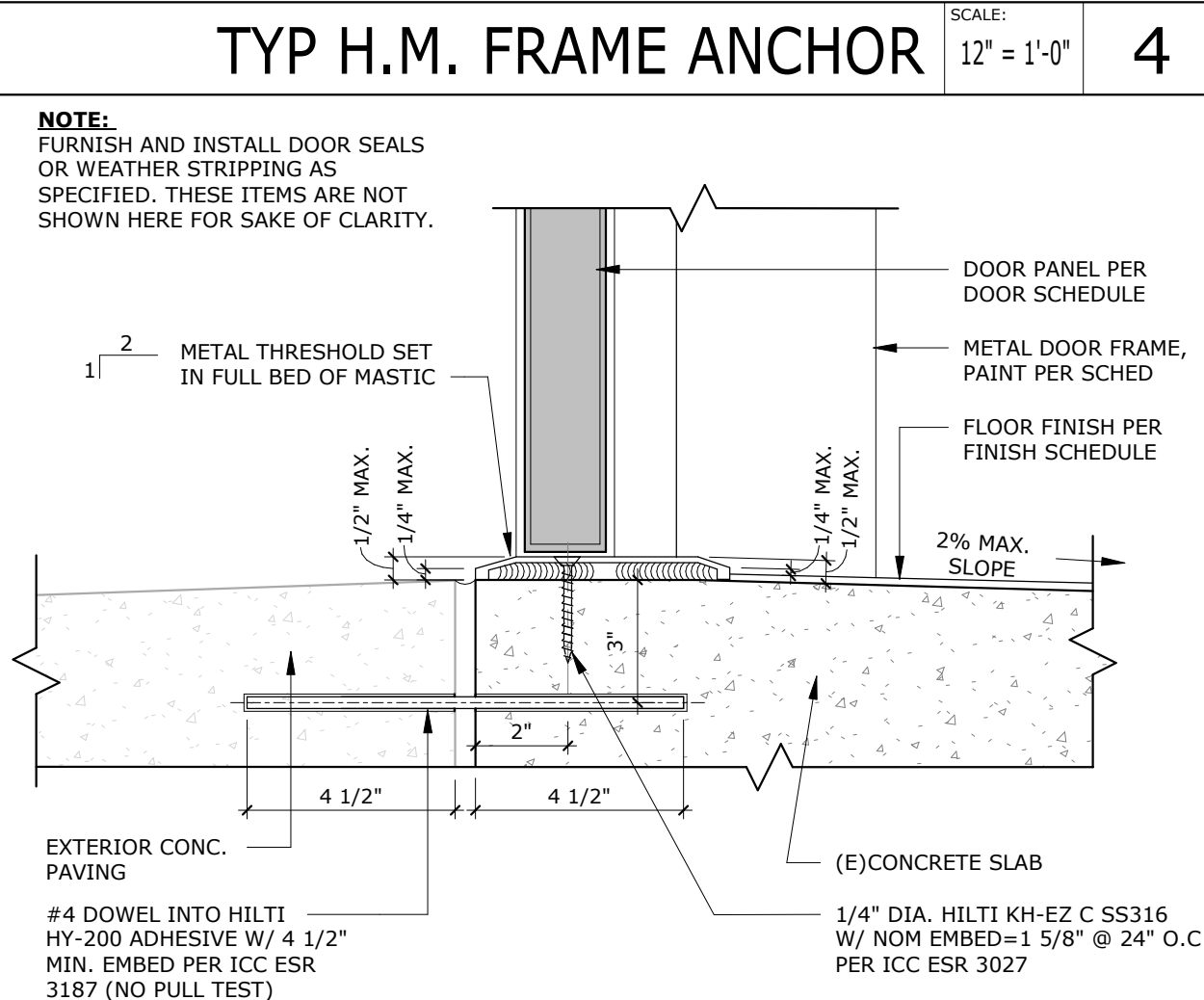
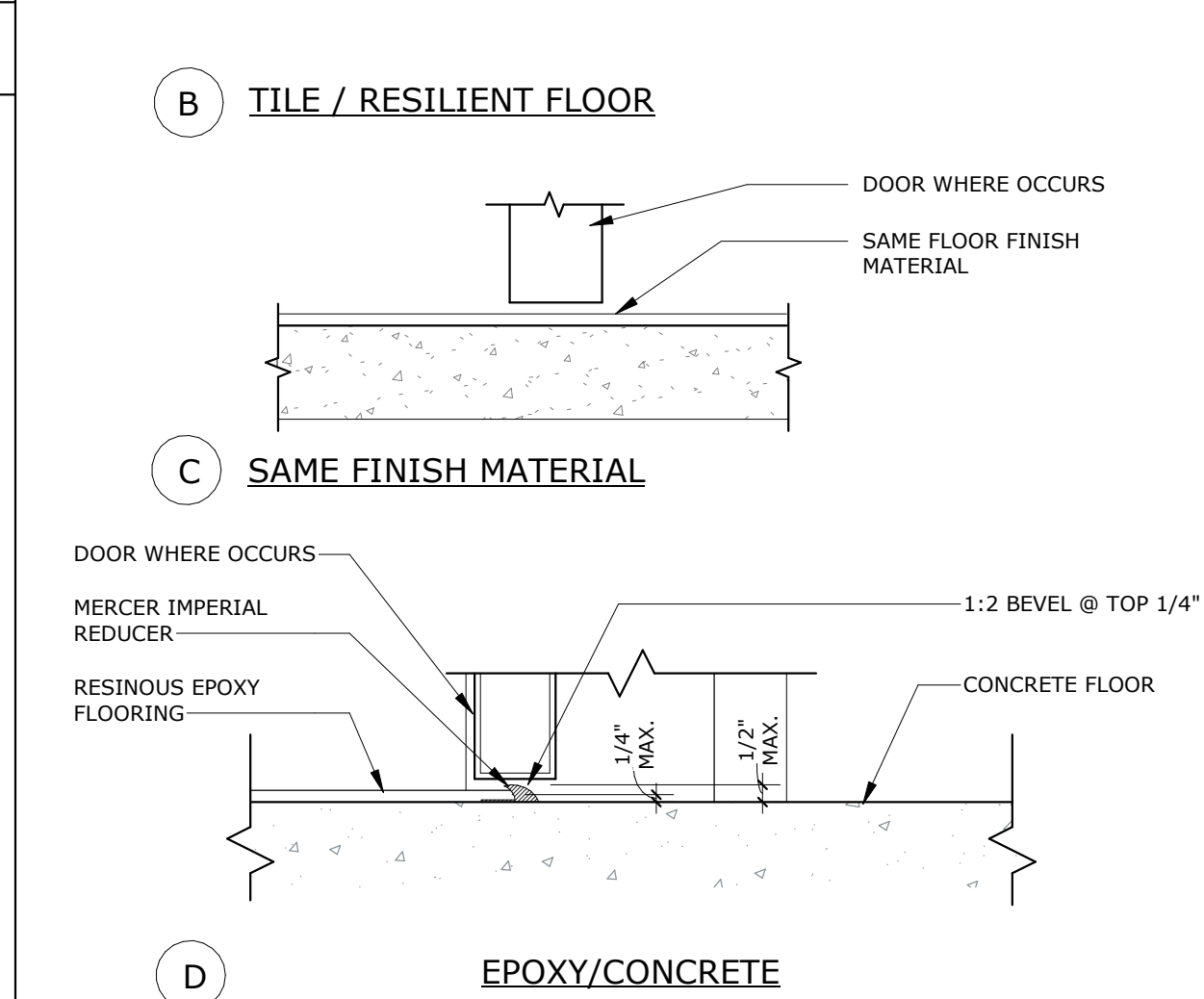
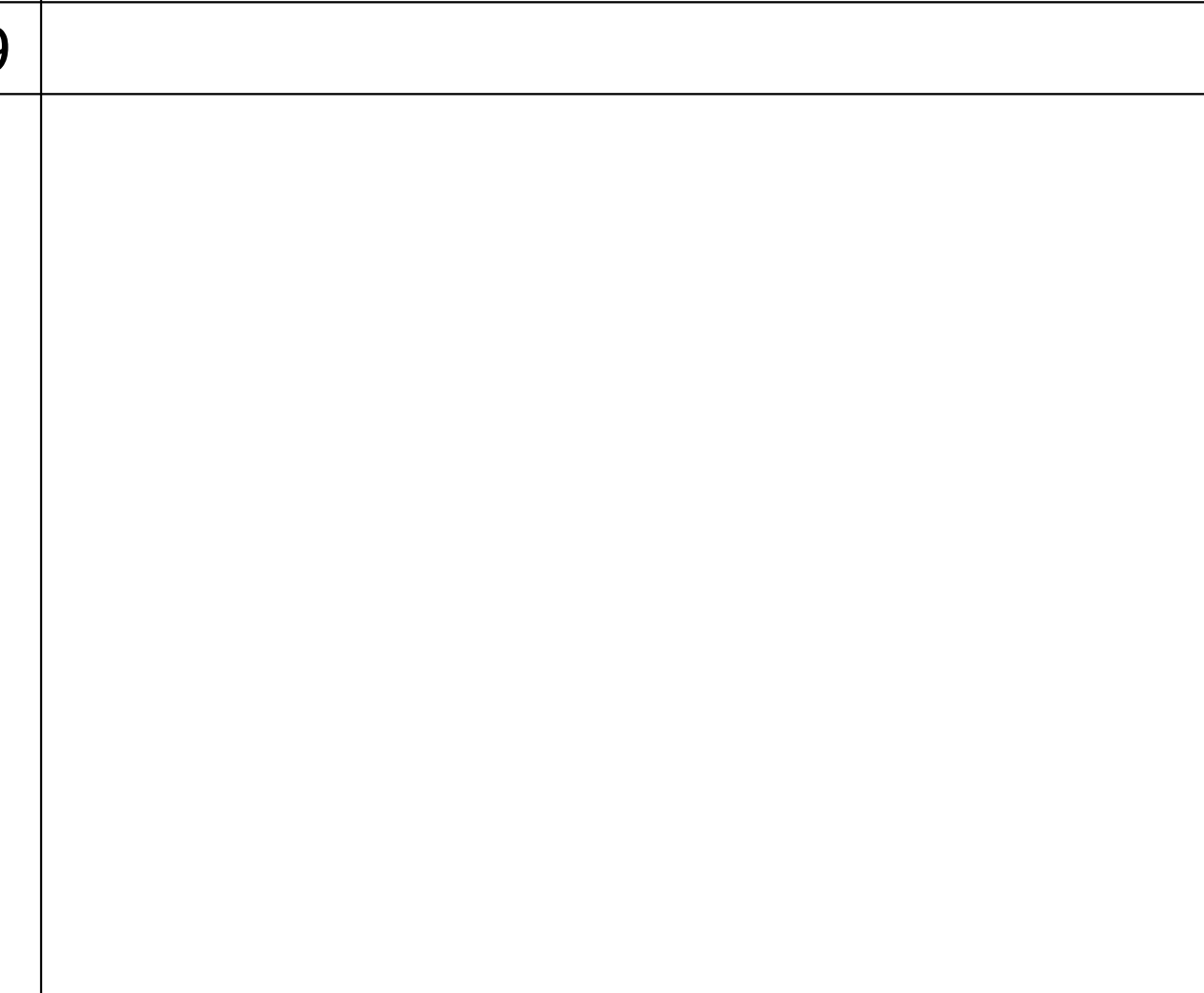
AGENCY APPROVAL
 (Seal of the State of California)
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HEAD AT ROLLING COUNTER DOOR SCALE: 3" = 1'-0" 18



SILL AT ROLLING COUNTER DOOR SCALE: 3" = 1'-0" 19



TYP. FLOOR TRANSITIONS SCALE: 3" = 1'-0" 10

EXT. DR. THRSHLD. SCALE: 3" = 1'-0" 5

TYP. H.M. FRAME ANCHOR SCALE: 12" = 1'-0" 4

EXT. DR. THRSHLD. SCALE: 3" = 1'-0" 5

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 TWIN RIVERS UNIFIED SCHOOL DISTRICT

DOOR DETAILS

AD-6.0

KITCHEN UPGRADES AT JOYCE E.S.: DSA SUBMITTAL 7/5/24

GENERAL NOTES
APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES

- 1. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
A. WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE...
2. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
3. SHOP DRAWINGS SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.

CONCRETE

- 1. CONCRETE SHALL ATTAIN 28 DAY COMPRESSIVE STRENGTH AS REQUIRED IN NOTE #28.
2. SLUMP SHALL BE 4 INCHES +/- 1 INCH WITHOUT ADMIXTURES UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
3. CONCRETE MIX DESIGNS SHALL BE PREPARED ACCORDING TO ACI 318 CHAPTER 26.4 AND ACI 301 SECTION 4, REVIEWED BY OWNER'S TESTING LABORATORY AND SUBMITTED TO THE SUBCONTRACTOR ENGINEER FOR REVIEW.

WOOD

- 1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
DOUGLAS FIR - COAST REGION - WCLUB GRADING RULES #17 OR WVPA STANDARD GRADING RULES FOR WESTERN LUMBER.
2x4 AND LARGER MEMBERS - #1 UNO.
6x AND LARGER MEMBERS - #1 UNO.

POST-INSTALLED ANCHORS

- 1. FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
A. ADHESIVE ANCHORS FOR THIRD ROD & REBAR:
a. HILTI HIT-HY 200 PER ESR-3167
b. HILTI HIT-RE300 V3 PER ESR-3814

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like ABV, ADDL, AHU, ALT, APPROX, ARCH, ARCHITECTURAL, BFC, BLDG, etc.

DESIGN CRITERIA

Table with 4 columns: Codes and Standards, Lateral Loads, Allowable Sols Pressure, Vertical Loads. Includes references to ASCE 7-16, ASCE 318-19, etc.

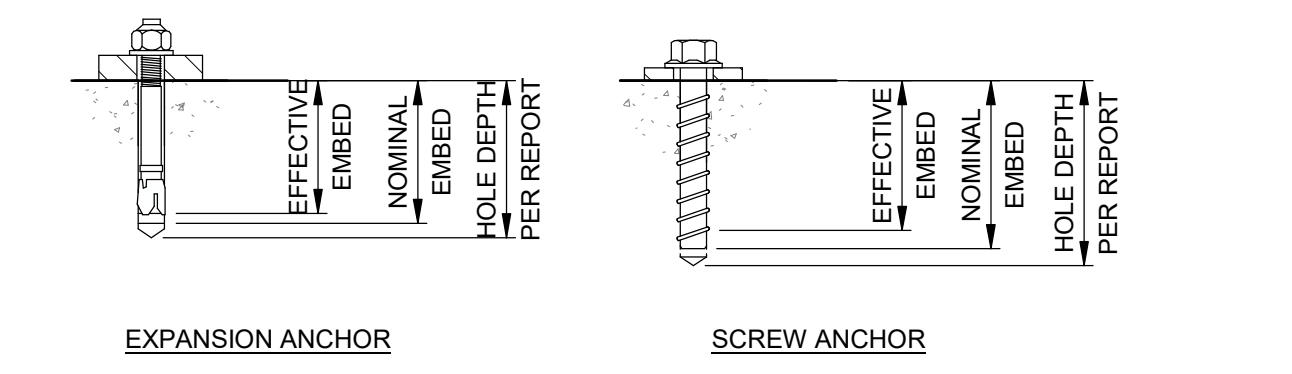
SILL ANCHOR BOLT WASHER SCHEDULE

Table with 4 columns: Wall Type, Washer Designation, and Washer Dimensions. Includes details for 2x6, 2x8 & Larger, and 2x8 & Larger 2 Sides SHTG.

SIMPSON HARDWARE

- 1. SIMPSON HARDWARE FOR THIS PROJECT HAS BEEN SPECIFIED BASED ON THE ALLOWABLE LOAD VALUES AND PRODUCT INFORMATION GIVEN IN THE SIMPSON CATALOG FOR THE YEAR THAT THESE DRAWINGS ARE DATED.
2. CONDITIONS, CONDITIONS INDICATE GENERAL PRODUCT TYPE AND ANY REQUIRED MODIFICATIONS (I.E. SLOPES AND SKEWS), SPECIFIC CATALOG CALL OUTS ARE DETERMINED BY INDIVIDUAL MEMBER SIZES.

INSTALLED ANCHOR DIAGRAMS



REINFORCING BARS

Table with 4 columns: Item, FC @ 28 DAYS, MAX AGGR SIZE, WEIGHT, and MAX W/C/M RATIO. Lists items like Foundations, Slab on Grade, Columns, etc.

STRUCTURAL OBSERVATION

- 1. IN ACCORDANCE WITH SECTION 1704.6 OF THE CBC W CA AMENDMENTS, THIS PROJECT IS REQUIRED TO HAVE STRUCTURAL OBSERVATION.
2. ELEMENTS OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE CAC AND CBC.

POST-INSTALLED ANCHOR TESTING CRITERIA

- 1. EXPANSION ANCHOR TESTING SHALL COMPLY WITH INSTALLATION TORQUE VALUES PROVIDED IN MANUFACTURER'S EVALUATION REPORT.
2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

Table for Concrete Expansion Anchor Torque Test Value (FT-LB) showing diameter, torque values for different anchor types, and carbon/stainless steel options.

Masonry Expansion Anchor Torque Test Value (FT-LB)

Table for Masonry Expansion Anchor Torque Test Value (FT-LB) showing diameter, torque values for different anchor types.

WINDOW SYSTEM DESIGN CRITERIA

- 1. THE FOLLOWING DESIGN CRITERIA APPLIES TO ALL GLAZED OPENINGS (WINDOW SYSTEMS, STOREFRONT CURTAIN WALL, ETC.). WINDOW SYSTEMS ARE A DELEGATED DESIGN SYSTEM TO BE OVERSEEN BY THE GENERAL CONTRACTOR.
2. ELEMENTS OF THE WINDOW SYSTEM SHALL BE DESIGNED FOR ALL VERTICAL AND LATERAL LOADING AS REQUIRED BY THE GOVERNING CODE AND AS SHOWN IN THE CONSTRUCTION DOCUMENTS.

FOUNDATIONS

- 1. THE BASIS OF DESIGN AND ALLOWABLE CAPACITIES OF THE FOUNDATION SYSTEM HAVE BEEN PROPORTIONED IN ACCORDANCE WITH CBC CODE MINIMUMS.
2. FOUNDATIONS SHALL BEAR ON ENGINEERED FILL OR NATIVE SOIL. SEE NOTES AND DETAILS ON SHEET 58.01.
3. ALL FILLING, BACKFILLING AND COMPACTION SHALL BE DONE UNDER THE OBSERVATION OF A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER AND MUST BE COMPACTED TO THE MINIMUM DENSITY SPECIFIED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE GEOTECHNICAL REPORT.

LAP SPlice LENGTHS FOR GRADE 60 REINFORCING BARS IN TENSION (Ld)

Table showing lap splice lengths for grade 60 reinforcing bars in tension for concrete strengths of 3000, 4000, and 5000 PSI.

DEVELOPMENT LENGTHS

- 1. SCHEDULE APPLIES TO NORMAL WEIGHT CONCRETE WITH UNCOATED, GRADE 60 REINFORCING STEEL FOR #3 BARS AND LARGER.
2. ROUND UP TO THE NEAREST WHOLE NUMBER FOR ALL LENGTH CALCULATIONS.
3. Ld SHALL BE 12 INCHES MINIMUM.

WINDOW SYSTEM DESIGN CRITERIA

- 1. THE FOLLOWING DESIGN CRITERIA APPLIES TO ALL GLAZED OPENINGS (WINDOW SYSTEMS, STOREFRONT CURTAIN WALL, ETC.). WINDOW SYSTEMS ARE A DELEGATED DESIGN SYSTEM TO BE OVERSEEN BY THE GENERAL CONTRACTOR.
2. ELEMENTS OF THE WINDOW SYSTEM SHALL BE DESIGNED FOR ALL VERTICAL AND LATERAL LOADING AS REQUIRED BY THE GOVERNING CODE AND AS SHOWN IN THE CONSTRUCTION DOCUMENTS.

STRUCTURAL SHEET INDEX

Table with 2 columns: Sheet Number and Description. Lists sheets like S1.01 GENERAL NOTES, S1.11 STRUCTURAL SPECIAL INSPECTIONS & TESTING, etc.

PROJECT NO.: 7/5/2024 1:26:01 PM. Includes a grid for date and version control.

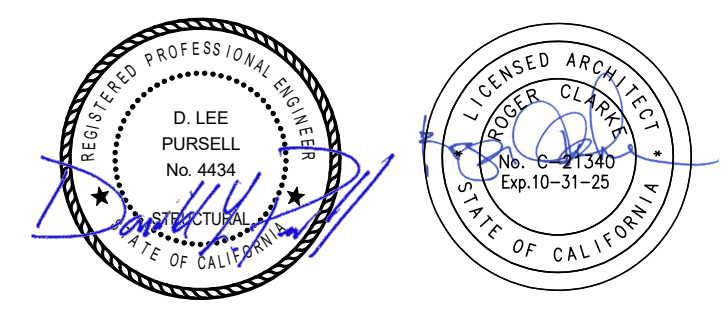
FOUNDATIONS. Includes a diagram showing foundation dimensions and reinforcement details.

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STRUCTURAL SPECIAL INSPECTIONS AND TESTING

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE



AGENCY APPROVAL
10/1/2024



**RUHNAU
CLARKE
ARCHITECTS**

CONSULTANT BRANDING

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

- SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY A TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER (OR OWNER'S AUTHORIZED AGENT), AND APPROVED BY THE BUILDING OFFICIAL TO PROVIDE SPECIAL INSPECTIONS AND TESTING FOR THE PARTICULAR TYPE OF CONSTRUCTION.
 - TABLES OF SPECIAL INSPECTIONS AND TESTING ARE DERIVED FROM THE STRUCTURAL PROVISIONS OF THE CBC AND REFERENCED STANDARDS AND ARE FOR REFERENCE ONLY. THE INCLUDED TABLES ARE PROVIDED FOR THE CONVENIENCE OF THE OWNER, TESTING AGENCY AND CONTRACTOR IN DEVELOPING THE SCOPE OF WORK FOR REQUIRED TESTING AND INSPECTION OF STRUCTURAL MATERIALS AND COMPONENTS. FINAL DEFINITION OF THIS SCOPE OF WORK IS TO BE DETERMINED BY THE TESTING AGENCY AND THE OWNER (OR OWNER'S AUTHORIZED AGENT).
 - FREQUENCY OF SPECIAL INSPECTIONS AND TESTING SHALL BE, AT A MINIMUM, AS NOTED FOR THE INDIVIDUAL ELEMENTS WITHIN THE TABLES BELOW. THE CONTRACTOR SHALL COORDINATE TIMING OF SPECIAL INSPECTIONS AND TESTING WITH THE SPECIAL INSPECTION AND TESTING AGENCY.
 - PRIOR TO THE START OF CONSTRUCTION, THE TESTING AND INSPECTION AGENCY SHALL PROVIDE DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING COMPETENCY AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION, IN ACCORDANCE WITH CBC SECTION 1704A.2.1.
 - THE TESTING AND INSPECTION AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER OF RECORD AND THE CONTRACTOR, PER CBC SECTION 1704A.2.4. THE REPORTS SHALL INDICATE WHETHER WORK INSPECTED OR TESTED CONFORMED TO THE APPROVED CONSTRUCTION DOCUMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.
 - SPECIAL INSPECTION AND TESTING RECORDS SHALL BE RETAINED BY THE CONTRACTOR ON SITE UNTIL COMPLETION OF CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT TO THE BUILDING OFFICIAL ACKNOWLEDGING RESPONSIBILITY FOR CONSTRUCTION OF THE MAIN LATERAL-FORCE RESISTING SYSTEM PRIOR TO COMMENCEMENT OF THAT WORK AS REQUIRED BY CBC SECTION 1704A.4.
 - THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL SUBMIT TO THE BUILDING OFFICIAL A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND TESTS PER CBC SECTION 1704A.2.4 AND REPORTS AND CERTIFICATES PER CBC SECTION 1704A.5.
 - ALL SOILS AND FOUNDATION EXCAVATION INSPECTIONS SHALL BE BY THE GEOTECHNICAL ENGINEER OF RECORD, OR A GEOTECHNICAL FIRM HIRED BY THE OWNER PER CBC SECTION 1705A.6.
 - SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP FABRICATED MEMBERS OR ASSEMBLIES UNLESS WAIVED PER THE EXCEPTIONS IN CBC SECTION 1704A.2.5.
- DEFINITIONS:**
- CONTINUOUS - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
 - PERIODIC - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
 - QUALITY ASSURANCE (QA) - MONITORING AND INSPECTION TASKS PERFORMED BY AN AGENCY OR FIRM OTHER THAN THE FABRICATOR OR ERECTOR TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED BY THE FABRICATOR AND ERECTOR MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. QUALITY ASSURANCE INCLUDES THOSE TASKS DESIGNATED 'SPECIAL INSPECTION' BY THE APPLICABLE CODE.
 - QUALITY CONTROL (QC) - CONTROLS AND INSPECTIONS IMPLEMENTED BY THE FABRICATOR OR ERECTOR, AS APPLICABLE, TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
 - OBSERVE (O) - OBSERVE THESE ITEMS ON A RANDOM BASIS (DAILY FOR LFRRS). OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 - PERFORM (P) - PERFORM THOSE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
 - DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.
- SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED DURING CONSTRUCTION ON THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS AS REQUIRED BY CBC CHAPTER 17A, THE TABLES LISTED BELOW, AND THE JURISDICTION'S SPECIAL INSPECTION AND TESTING FORM. IF DISCREPANCIES ARE NOTED, CONTACT THE SEOR. ALL EXCEPTIONS INCLUDED IN CBC CHAPTER 17A ARE PERMITTED TO BE USED.
 - SOILS
 - CONCRETE CONSTRUCTION
 - WOOD CONSTRUCTION - STRUCTURAL ELEMENTS AND ASSEMBLIES INSPECTIONS
 - WOOD CONSTRUCTION - STRUCTURAL GLUED LAMINATED TIMBER

CONCRETE CONSTRUCTION - REQUIRED SPECIAL INSPECTIONS AND TESTS

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD ¹
1. INSPECT AND TEST REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.			ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3, 26.13.1, 26.13.3.2, 26.13.3.3
A. REINFORCEMENT IN SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS.	X	-	
B. ALL OTHER REINFORCEMENT	-	X	
2. REINFORCING BAR WELDING:			AWS D1.4 ACI 318: 18.2.8, 25.5.7, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A709	-	X	
B. INSPECT SINGLE-PASS FILET WELDS, MAXIMUM 5/16", NOT DEFINED IN 2.D OR 2.E	-	X	
C. INSPECT ALL OTHER WELDS	-	-	
D. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS AND COUPLING BEAMS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-	
E. SHEAR REINFORCEMENT.	X	-	
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2, 26.7.2, 26.8.2, 26.13.1, 26.13.3.3
4. INSPECT AND TEST ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4, 26.7.2, 26.13.1, 26.13.3.2
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN A.4.	-	X	ACI 318: 17.8.2, 26.7.2, 26.13.1, 26.13.3.3
5. VERIFY USE OF REQUIRED DESIGN MIX.	X	-	ACI 318: CH. 19, 26.4, 26.13.3.2
6. PRIOR TO AND DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.4, 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5, 26.13 ACI 506: 3.4
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5, 26.13.3.3
9. INSPECT PRESTRESSED CONCRETE FOR:			ACI 318: 26.10.2, 26.13.1, 26.13.3.2
A. APPLICATION OF PRESTRESSING FORCES	X	-	
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26, 26.13.1, 26.13.3.3
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3 ACI 550.5
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	-	
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-	
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: 26.13.1.3
13. 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.	-	X	ACI 318: 26.10.2, 26.11.2, 26.13.3.3
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b), 26.13.3.3
15. BATCH PLANT - QUALITY AND QUANTITY OF MATERIALS USED IN TRANSIT-MIXED CONCRETE AND BATCHED AGGREGATES, AT LOCATION WHERE MATERIALS ARE MEASURED. ²	X	-	
16. CONCRETE PREPLACEMENT INSPECTION - CONCRETE SHALL NOT BE PLACED UNTIL THE FORMS AND REINFORCEMENT HAVE BEEN INSPECTED, ALL PREPARATIONS FOR THE PLACEMENT HAVE BEEN COMPLETED, AND THE PREPARATIONS HAVE BEEN CHECKED BY THE INSPECTOR OF RECORD.			
17. PLACING RECORD - A RECORD SHALL BE KEPT ON THE SITE OF THE TIME AND DATE OF PLACING THE CONCRETE IN EACH PORTION OF THE STRUCTURE. SUCH RECORD SHALL BE KEPT UNTIL THE COMPLETION OF THE STRUCTURE AND SHALL BE OPEN TO THE INSPECTION OF THE ENFORCEMENT AGENCY.			
18. COMPOSITE CONSTRUCTION CORES - COMPOSITE CONSTRUCTION CORES SHALL BE TAKEN AND TESTED IN ACCORDANCE WITH CBC SECTION 1910A.4			

- WHERE APPLICABLE, SEE ALSO SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.
- SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.
- SEE 1705A.3.3 FOR WAIVER/EXCEPTIONS.

WOOD CONSTRUCTION - STRUCTURAL ELEMENTS AND ASSEMBLIES

REQUIRED SPECIAL INSPECTIONS
CBC SECTION 1705A.5.4
1107N04

MINIMUM VERIFICATION

THE APPROVED AGENCY SHALL FURNISH A VERIFIED REPORT TO THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF CONSTRUCTION OBSERVATION, THE STRUCTURAL ENGINEER, AND THE ENFORCEMENT AGENCY, IN ACCORDANCE WITH THE CALIFORNIA ADMINISTRATIVE CODE AND THIS CHAPTER. THE VERIFIED REPORT SHALL LIST ALL INSPECTED MEMBERS OR TRUSSES, AND SHALL INDICATE WHETHER OR NOT THE INSPECTED MEMBERS OR TRUSSES CONFORM WITH APPLICABLE STANDARDS AND THE APPROVED DRAWINGS AND SPECIFICATIONS. ANY NONCONFORMING ITEMS SHALL BE INDICATED ON THE VERIFIED REPORT.

WOOD CONSTRUCTION - STRUCTURAL GLUED LAMINATED AND CROSS-LAMINATED TIMBER

REQUIRED SPECIAL INSPECTIONS
CBC SECTION 1705A.5.5
1107N05

MINIMUM VERIFICATION

MANUFACTURE OF ALL STRUCTURAL GLUED LAMINATED AND CROSS-LAMINATED TIMBER SHALL BE CONTINUOUSLY INSPECTED BY AN APPROVED AGENCY. THE APPROVED AGENCY SHALL VERIFY THAT PROPER QUALITY CONTROL PROCEDURES AND TESTS HAVE BEEN EMPLOYED FOR ALL MATERIALS AND THE MANUFACTURING PROCESS, AND SHALL PERFORM VISUAL INSPECTION OF THE FINISHED PRODUCT. EACH INSPECTED MEMBER SHALL BE STAMPED BY THE APPROVED AGENCY WITH AN IDENTIFICATION MARK.

STRUCTURAL WOOD LFRRS - REQUIRED SPECIAL INSPECTIONS

REQUIRED SPECIAL INSPECTIONS
CBC SECTION 1705A.12.1, 1705A.13.2
1107N11

TYPE	CONTINUOUS	PERIODIC
1. FIELD GLUING OPERATIONS OF ELEMENTS OF THE LFRRS.	X	-
2. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE LFRRS, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.	-	X

SOILS - REQUIRED SPECIAL INSPECTIONS AND TESTS ¹

REQUIRED SPECIAL INSPECTIONS AND TESTS
CBC TABLE 1705A.6
1107N01

TYPE	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X
6. EARTH-RETAINING SHORING - SPECIAL INSPECTIONS AND TESTS SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 1812A.	-	-
7. VIBRO STONE COLUMNS - SPECIAL INSPECTIONS AND TESTS SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 1813A.	-	-

¹ GEOTECHNICAL ENGINEER SHALL PROVIDE INSPECTION AND VERIFIED REPORT PER CBC SECTION 1705A.6.1

FOR REFERENCE ONLY

PROJECT No. :
7/5/2024 1:26:01 PM

DATE	BY	ADD	APP	CCD	REV

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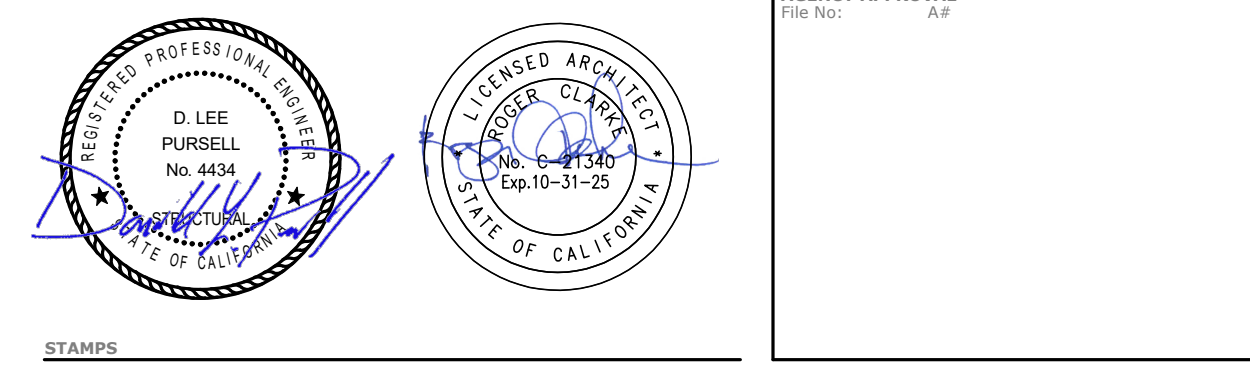
KITCHEN UPGRADES AT JOYCE E.S.

F. C. JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

**STRUCTURAL SPECIAL
INSPECTIONS &
TESTING**

S1.11

KITCHEN UPGRADES AT JOYCE E.S.:



AGENCY APPROVAL
 (To Be Filled)



**RUHNAU
 CLARKE**
 ARCHITECTS

CONSULTANT BRANDING

FOUNDATION PLAN NOTES

- NOTES AND DETAILS ON SHEETS LABELED AS "GENERAL" OR "TYPICAL" ARE APPLICABLE TO ALL DRAWINGS, UNO.
- VERIFY ALL BUILDING DIMENSIONS AND ELEVATIONS w/ ARCH DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS w/ DIMENSIONS SHOWN.
- DIMENSIONS SHOWN ARE TO THE FACE OF STUD.
- SITE PREPARATION AND BUILDING PAD CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT LISTED IN THE FOUNDATION GENERAL NOTES. BOTTOM OF FOOTING EXCAVATIONS SHALL BE REVIEWED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 24" BELOW ADJACENT MINIMUM PREPARED BUILDING PAD ELEVATION ON ALL SIDES, TYP UNO OR AS SHOWN ON SECTIONS.
- SLAB ON GRADE SHALL BE 5" THICK CONCRETE w/ #4 @ 18"CC EW AT MID-DEPTH. CONCRETE SHALL BE INSTALLED OVER 15 MIL VAPOR RETARDER OVER 4" CLEAN CRUSHED ROCK. TOP OF CONCRETE SLAB IS 0'-0" UNO. DATUM ELEV = 0'-0".
- CONTRACTOR SHALL SUBMIT AN EDGE OF SLAB PLAN TO ARCHITECT & SEOR FOR REVIEW. SUBMITTAL SHALL BE DIMENSIONED AND LOCATED RELATIVE TO STRUCTURAL GRIDS.
- PROVIDE SLAB ON GRADE CONTROL JOINTS (S/J) AS INDICATED PER **8/55.01** TYP AT ALL INTERIOR SLABS. CONSTRUCTION JOINTS (C/J) MAY REPLACE CONTROL JOINTS AS REQUIRED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE SLAB CONTROL JOINTS WITH ANY ARCHITECTURALLY EXPOSED SLAB AREAS OR THE LOCATION OF TILE CRACK CONTROL JOINTS. VERIFY SPECIAL CONDITION CONTROL JOINTS WITH ARCH DRAWINGS.
- CONTRACTOR TO COORDINATE EXACT DIMENSIONS AND LOCATIONS OF THICKENED SLABS, HOUSEKEEPING PADS, ETC. WITH ALL OTHER DISCIPLINE'S DRAWINGS AS WELL AS WITH THE EQUIPMENT PROVIDED, PRIOR TO COMMENCING WORK.
- ALL DEPRESSIONS, SLOPES, ETC. ARE SHOWN FOR REFERENCE ONLY. FOR EXACT DEPTHS, SLOPES, EXTENTS, ETC. SEE OTHER DISCIPLINE'S DRAWINGS.
- COORDINATE CURB LOCATIONS AND EXTENTS WITH ARCH DRAWINGS. FOR CURBS BELOW NON-STRUCTURAL WALLS, SEE **10/95.01** & **11/95.01**.
- TEMPORARY LOADS APPLIED DURING CONSTRUCTION HAVE NOT BEEN CONSIDERED IN SLAB ON GRADE DESIGN.
- SEE ARCH & CIVIL DRAWINGS FOR ALL EXTERIOR CURBS, FLATWORK, PLANTERS, RAMPS, ETC.
- PROVIDE 3" MIN. CONCRETE COVER AT STRUCTURAL STEEL AND ANCHOR BOLTS BELOW GRADE, TYP.
- CONTINUE ALL REINFORCING IN CONTINUOUS FOOTINGS THROUGH SPREAD FOOTINGS, TYP UNO.
- FACE OF CONCRETE AT PERIMETER OF BLDG SHALL BE 1/2" OUTSIDE FACE OF STUD, TYP UNO. COORDINATE WITH ARCH DWGS.
- ANCHOR BOLTS AT NON-SHEARWALLS SHALL BE AS INDICATED ON **2/55.11**.
- ALL WOOD STUD WALLS ARE TO BE 2x6 @ 16"CC UNO ON THE PLANS, SECTIONS, OR SCHEDULES. COORDINATE STUD SIZE WITH ARCH DWGS.
- SLAB REINFORCING TO BE (2) #5 T&B, PROVIDE #3 TRANS T&B @ 18"CC WHERE SHEAR WALL OCCURS. EXTENT OF TRANSVERSE REINFORCING TO BE 12" MIN OF SHEAR WALL OR TO CORNER OF FOOTING, WHICHEVER IS LESS.

FOUNDATION LEGEND

- FOOTING MARK AND FOOTING MARK WITH TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE FOR TYPICAL TOP ELEVATION. ELEVATION IS RELATIVE TO REFERENCE ELEVATION (0'-0").
- CONCRETE CURB. VERIFY EXTENT w/ ARCH DWGS.
- CONCRETE HOUSEKEEPING PAD PER **12/55.01**. SEE ARCH FOR EXTENT. SEE NOTE#11 FOR ADDL INFO.
- SLOPED AND/OR DEPRESSED SLAB. DEPRESS BUILDING PAD AND PROVIDE FULL SLAB AND BASE THICKNESS. SEE **9/55.01** & **8/55.01**. WHERE DEPRESSION IS GREATER THAN 2" AND ADJACENT TO BUILDING FOUNDATION ELEMENT IT MAY BE NECESSARY TO STEP FOOTING IN ORDER TO MAINTAIN MINIMUM FOOTING EMBEDMENT PER SECTIONS. CONTRACTOR TO COORDINATE IN FIELD.
- SLAB STEP PER **9/55.01** & **8/55.01**
- TOP OF CONCRETE SLAB ELEVATION RELATIVE TO REFERENCED TOP OF CONCRETE 0'-0".
- MECHANICAL UNIT. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT FOR SIZE & LOCATION WITH OTHER TRADES & THE STRUCTURAL DRAWINGS. UNIT SIZES & LOCATIONS SHOWN ARE APPROXIMATE.
- WOOD STRUCTURAL WALL.
- WOOD POST, 6x6 @ 6' NOMINAL WALLS, TYP UNO.
- SHEAR WALL TYPE, EXTENT, AND ANCHOR BOLT LAYOUT, SEE **85.12** FOR SCHEDULE, UNO. EXTENT INDICATES MINIMUM REQUIRED SHEAR WALL LENGTH. S, WHERE OCCURS, INDICATES STRAPPED SHEAR WALL FRAMING PER
- SIMPSON HOLDOWN LOCATION. REFERENCE NUMBER INDICATES HDU HOLDOWN TYPE. SEE **B/55.12** AND **4/55.12**.

FRAMING PLAN NOTES

- NOTES AND DETAILS ON SHEETS LABELED AS "GENERAL" OR "TYPICAL" ARE APPLICABLE TO ALL DRAWINGS, UNO.
- VERIFY ALL BUILDING DIMENSIONS AND ELEVATIONS w/ ARCH DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS w/ DIMENSIONS SHOWN.
- DIMENSIONS SHOWN ARE TO FACE OF STUD.
- FOR GUIDELINES AND LIMITATIONS FOR SUPPORTING FROM STRUCTURE. SEE SPECIFICATIONS.
- SEPARATION JOINT DIMENSIONS SHOWN ON PLAN INDICATE MINIMUM CLEAR DISTANCE REQUIRED BETWEEN ADJACENT BLDG ELEMENTS. WHERE BLDG FINISHES/FIRE PROTECTION OCCUR, CLEAR DIMENSION SHALL BE MAINTAINED BTWN THOSE ELEMENTS.
- ALL WOOD STUD WALLS ARE TO BE 2x6 @ 16"CC UNO ON THE PLANS, SECTIONS, OR SCHEDULES. COORDINATE STUD SIZE WITH ARCH DWGS.
- ALL EXTERIOR WALLS AND EXTERIOR SOFFITS SHALL BE SHEATHED WITH 1/2" APA RATED SHTG, CD GRADE WITH EXTERIOR GLUE. NAIL w/ 10d @ 6"CC EDGE, 12"CC FIELD, UNO ON SHEAR WALL SCHEDULE.
- ROOF SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED (PER CBC TABLE 2304.8.3) STRUCTURAL 1/2" GRADE CD w/ EXTERIOR GLUE. MIN SPAN RATING SHALL BE 24/0. LAY LONG DIMENSION PERPENDICULAR TO SUPPORTS, ENDS STAGGERED AS SHOWN ON PLAN. NAIL w/ 10d NAILS @ 6"CC EDGES, 12"CC FIELD UNO ON PLANS. WHERE BLOCKING IS NOTED, USE 2x4 FLAT AT ALL SHTG EDGES SUPPORTED IN 22 CLIPS. USE PLYCLIPS AT MIDSPAN OF UNSUPPORTED ROOF SHEATHING EDGES.
- PROVIDE JOIST HANGERS WHERE SPECIFIED ON PLANS, SECTIONS, OR WHERE JOIST IS NOT IN DIRECT BEARING. FOR JOIST HANGER SCHEDULE AND NOTES, SEE PLANS.
- FOR WOOD BEAM TO HSS COLUMN CONNECTION, SEE **13/55.11** TYP, UNO.
- SPLICES AT CMST STRAPS SHALL BE LAPPED A MINIMUM OF 16" w/ NAILS DRIVEN THRU BOTH.
- INSTALL STRAPS OVER SHTG UNO. STRAP NAILS MAY REPLACE TYP DIAPHRAGM NAILING.
- SEE ARCH DWGS FOR INFORMATION REGARDING VENT OPENINGS AT BLOCKING AND SHEATHING.
- SEE ARCH FOR LOCATION OF CRICKETS REQUIRED FOR DRAINAGE. ROOF SHEATHING BELOW SHALL BE CONTINUOUS.
- FOR JOISTS BEING SISTERED, PROVIDE LUS-2 TYPE HANGER TO ALLOW BUCKET TO ACCOMMODATE FOR BOTH JOISTS.

FRAMING LEGEND

- OPENING. LOCATE OPENING PER AMEP DRAWINGS. FOR SUPPORT SEE **10/55.11**.
- WOOD STRUCTURAL WALL ABOVE.
- WOOD STRUCTURAL WALL BELOW.
- SHEAR WALL ABOVE, TYPE AND EXTENT. SEE **A/55.12** FOR SCHEDULE, UNO. EXTENT INDICATES MINIMUM REQUIRED SHEAR WALL LENGTH.
- C = HEIGHT OF CL OF BEAM CAMBER AS NOTED ON PLANS. WHERE C IS NOT NOTED, BEAMS ARE NOT CAMBERED. FABRICATE AND ERECT ALL BEAMS WITH NATURAL BEAM CAMBER UP WHERE NO CAMBER IS INDICATED ON PLANS.
- HDR = HEADER BELOW. SEE **2/55.11** UNO ON PLAN.
- MST48 = SIMPSON STRAP PER PLAN.
- HDU = SIMPSON HOLDOWN LOCATION. REFERENCE NUMBER INDICATES HDU HOLDOWN TYPE. SEE **B/55.12** AND **8/55.12**.
- STRAP
- NAILING
- TOP OF FRAMING ELEVATION (i.e. UNDERSIDE OF FLOOR SHTG) ABOVE REFERENCE TOP OF CONCRETE (0'-0") TYP, UNO.
- TOP OF WALL ELEVATION ABOVE REFERENCE TOP OF CONCRETE (0'-0") (i.e. TOP OF DBL TOP PL, TYP UNO).
- WOOD POST, 6x6 @ 6' NOMINAL WALLS, 4x4 @ 4' NOMINAL WALLS, TYP UNO.
- (A) POST IS ABOVE ONLY
- EXTENT OF BLOCKED DIAPHRAGM.
- AREA OF OVERBUILD FRAMING. ROOF SHEATHING BELOW SHALL BE CONTINUOUS.
- MECHANICAL UNIT. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT FOR SIZE & LOCATION WITH OTHER TRADES & THE STRUCTURAL DRAWINGS. UNIT SIZES & LOCATIONS SHOWN ARE APPROXIMATE.

FOR REFERENCE ONLY

PROJECT No. :
 7/5/2024 1:26:02 PM

DRAWN BY: _____ CHECKED BY: _____
 DELTA # _____ DATE _____ ADD _____ AFO _____ CCD _____ REV _____
 DELTA # _____ DATE _____ ADD _____ AFO _____ CCD _____ REV _____
 DELTA # _____ DATE _____ ADD _____ AFO _____ CCD _____ REV _____

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92503 (951) 684-6664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES AT JOYCE E.S.

F. C. JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLAN NOTES AND LEGENDS

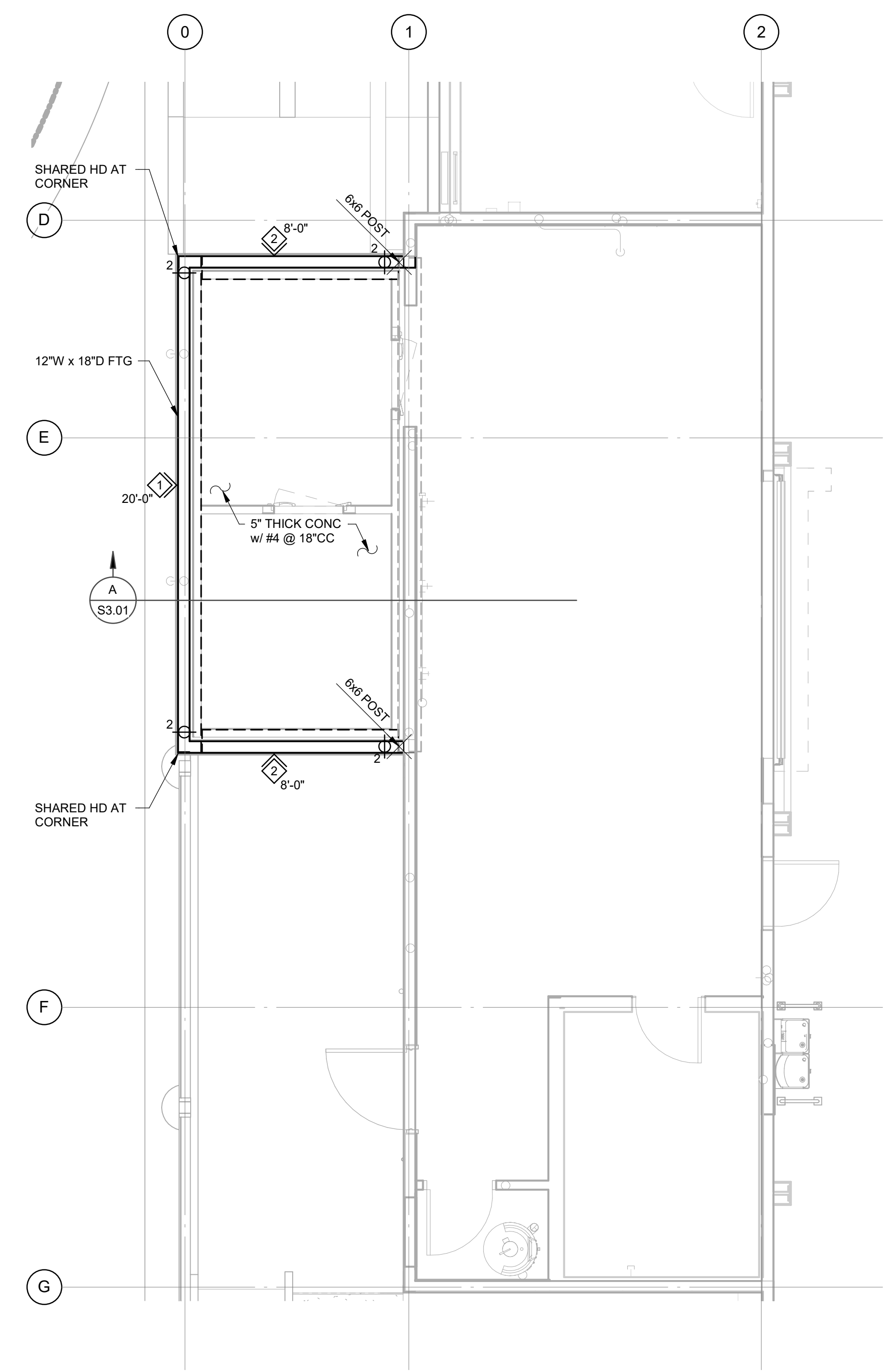
\$2.00

KITCHEN UPGRADES AT JOYCE E.S.:

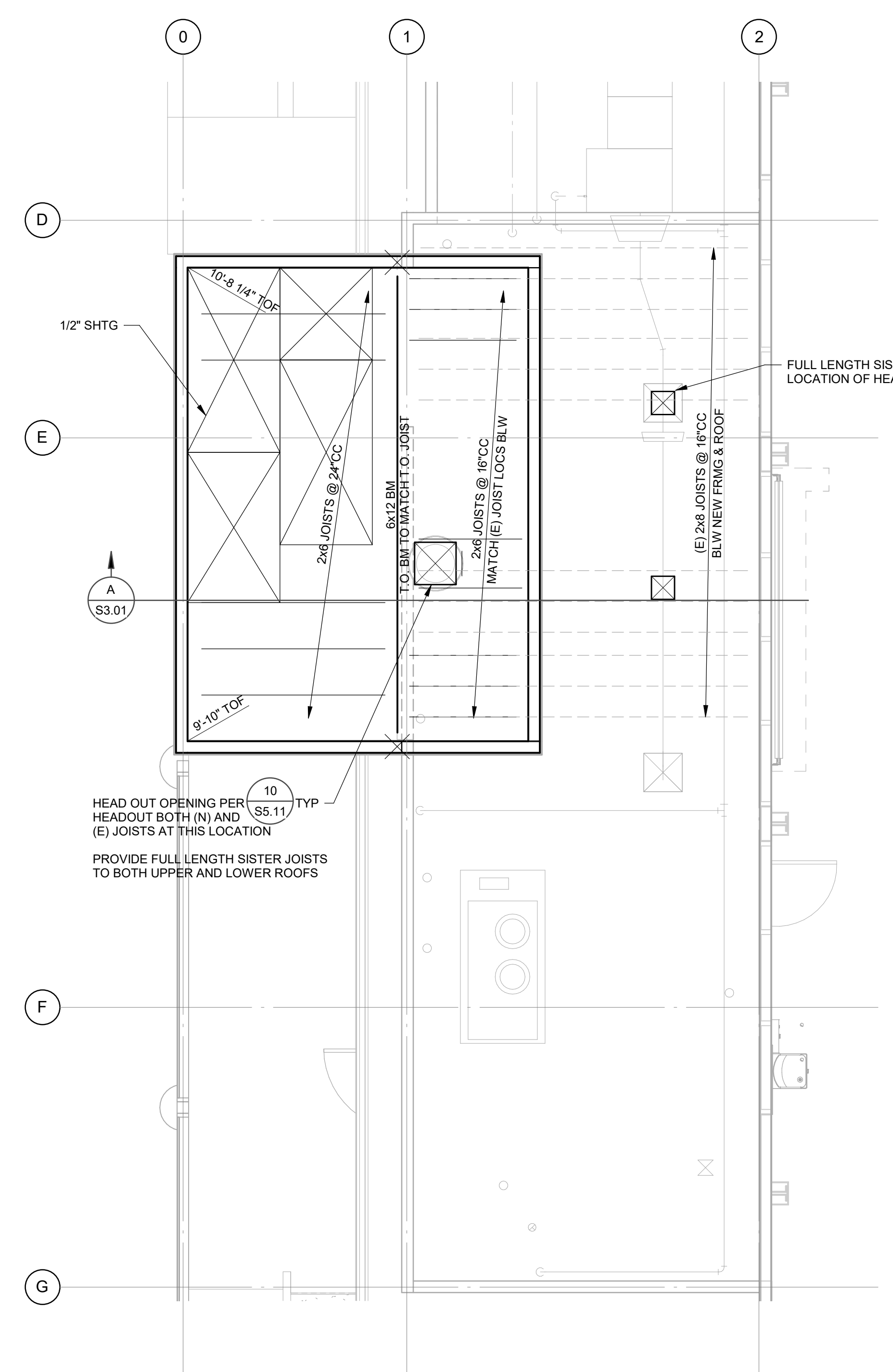


**RUHNAU
CLARKE**
ARCHITECTS

CONSULTANT BRANDING



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



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

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PROJECT No. : 7/5/2024 1:26:05 PM

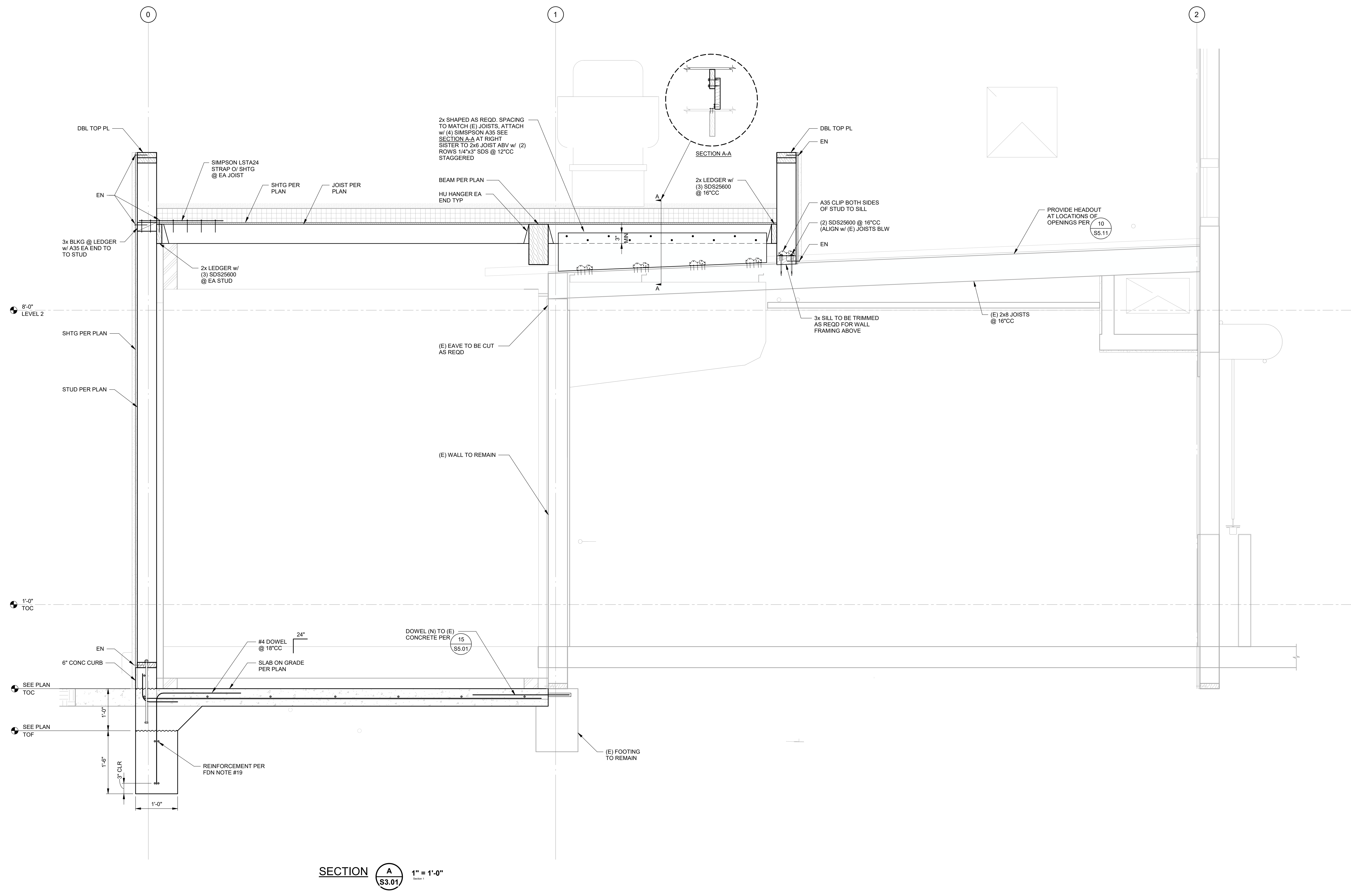
DATE	BY	REVISION

KITCHEN UPGRADES AT JOYCE E.S.:



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SECTION **A** 1" = 1'-0"

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PROJECT No. : 7/5/2024 1:26:05 PM

DATE	BY	DESCRIPTION

TYPICAL DETAILS

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

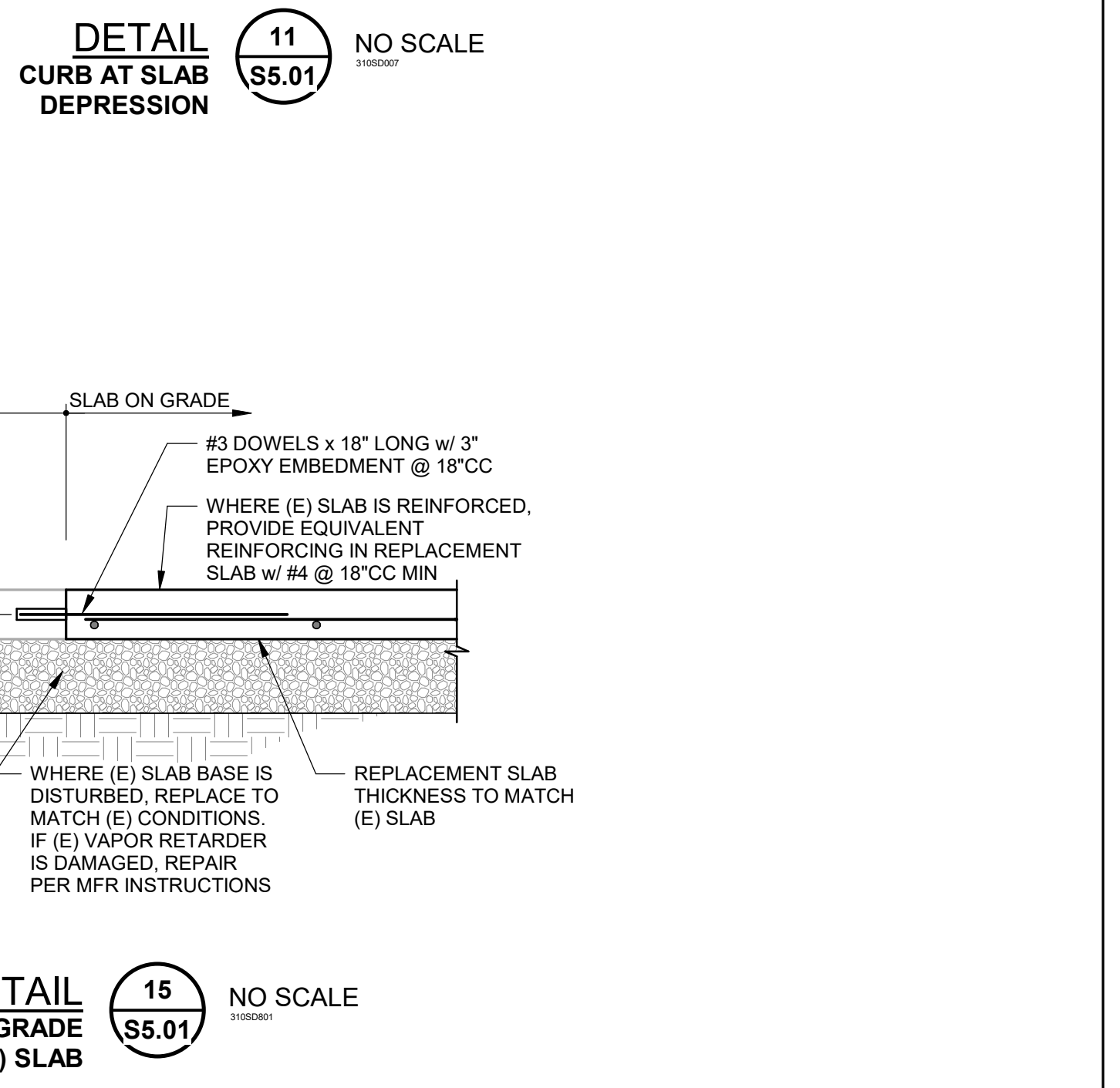
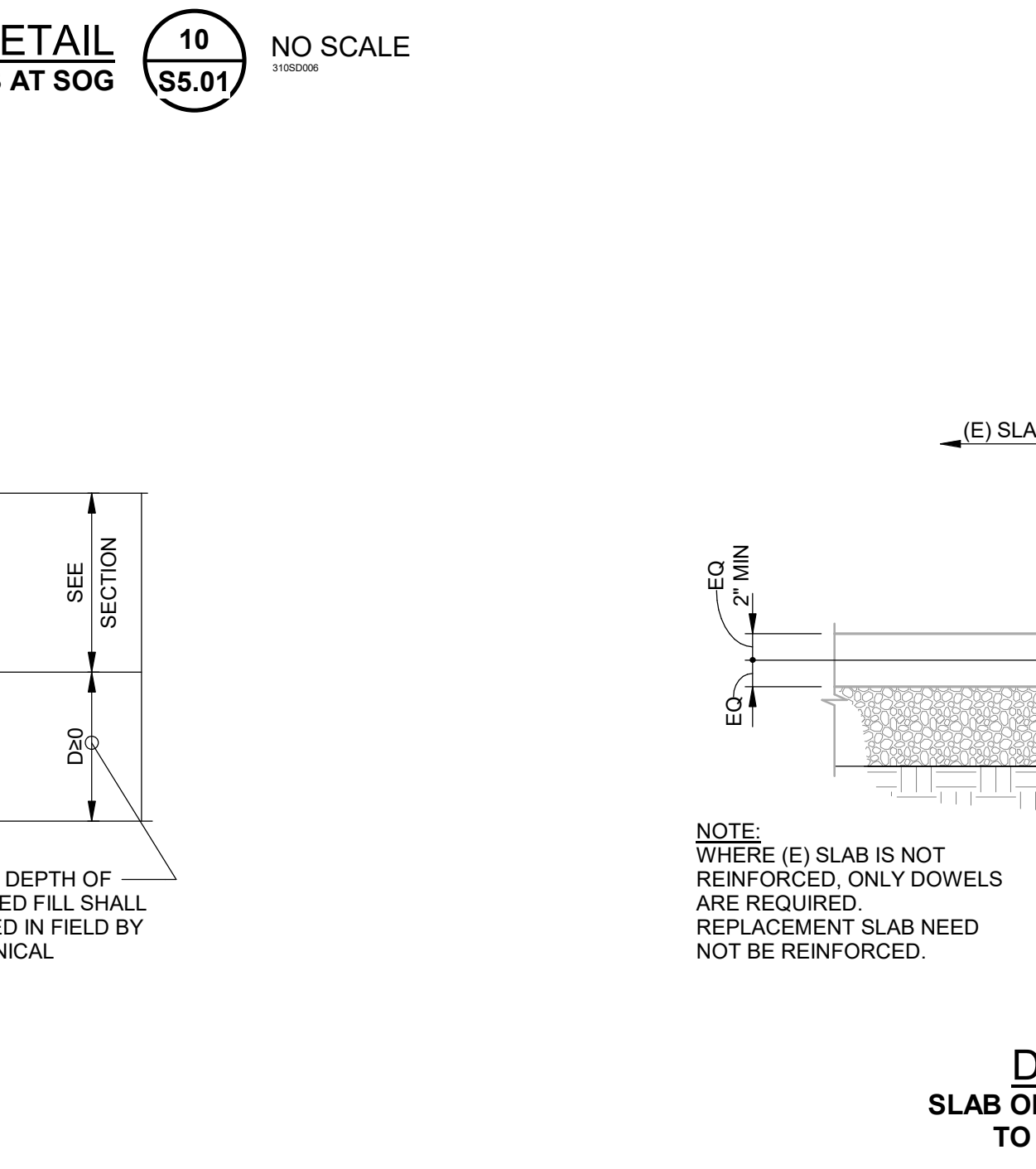
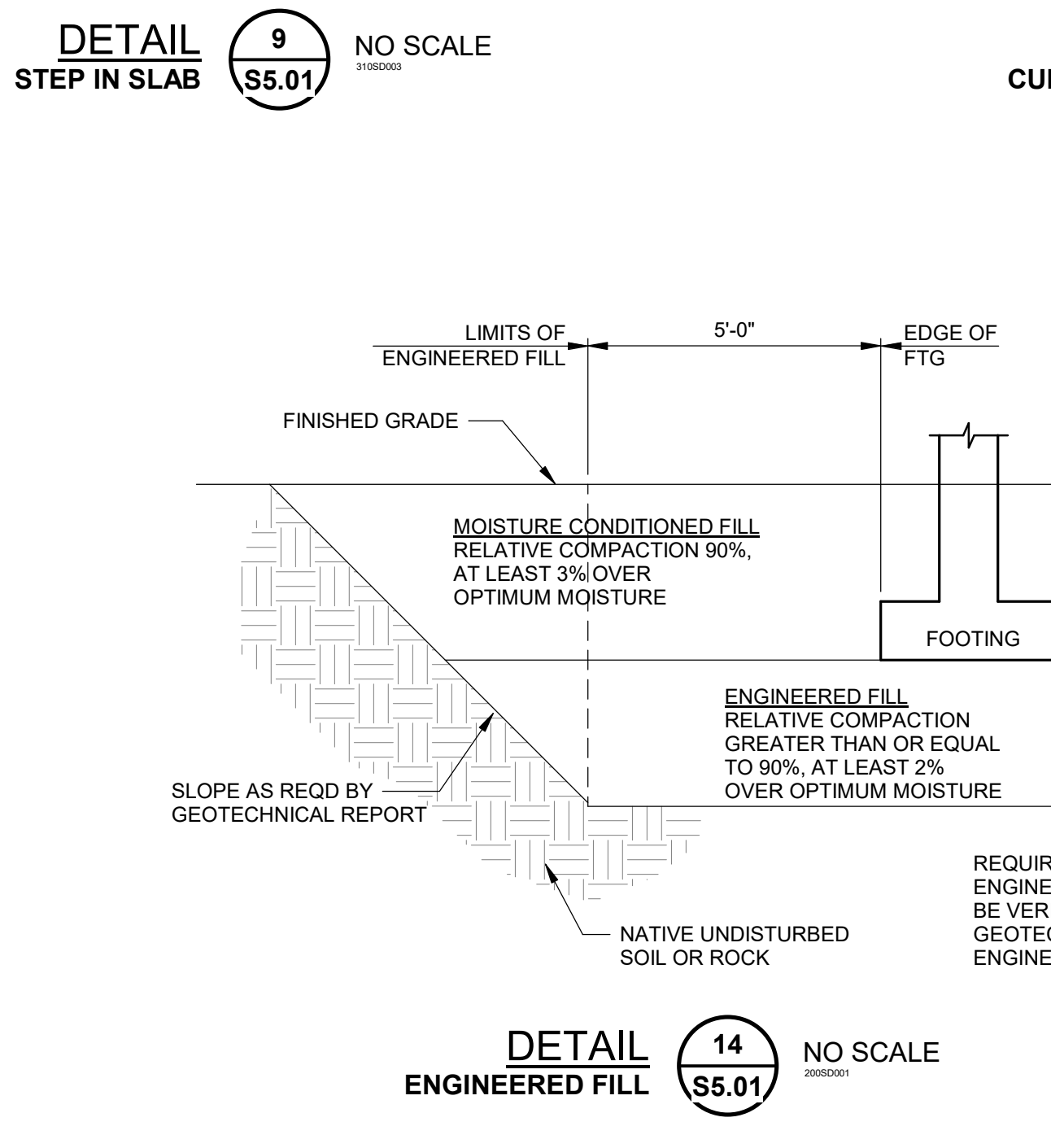
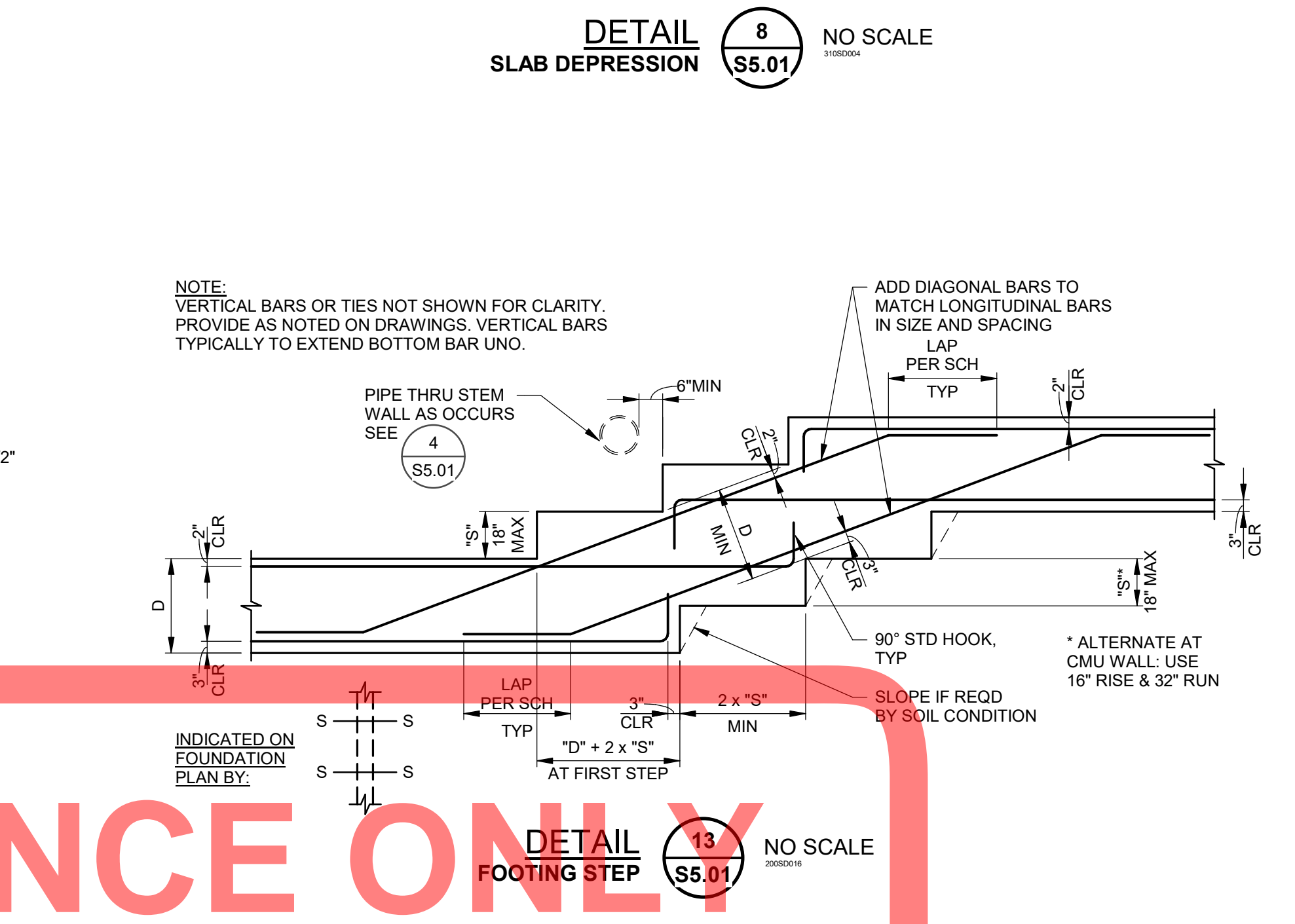
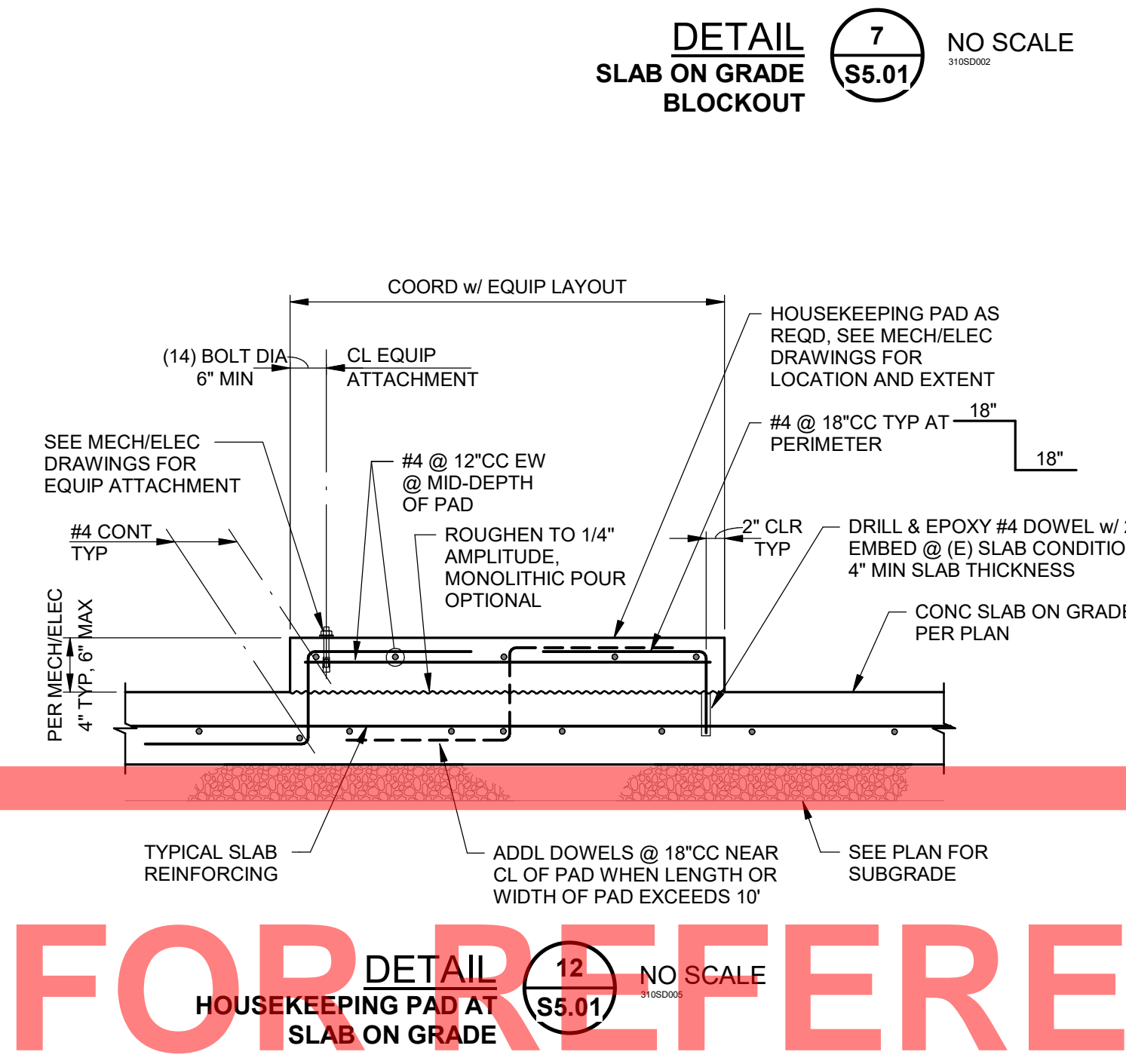
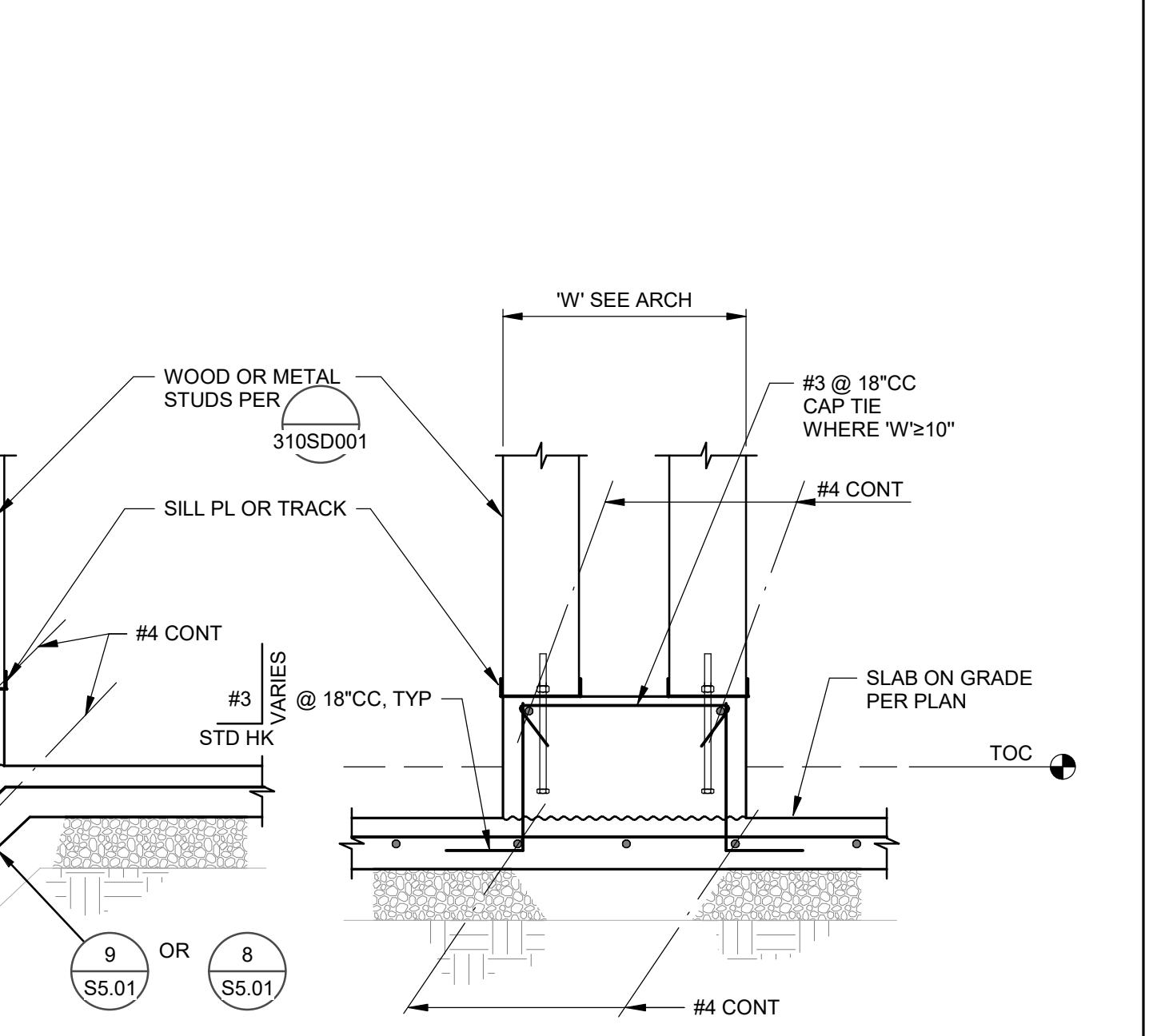
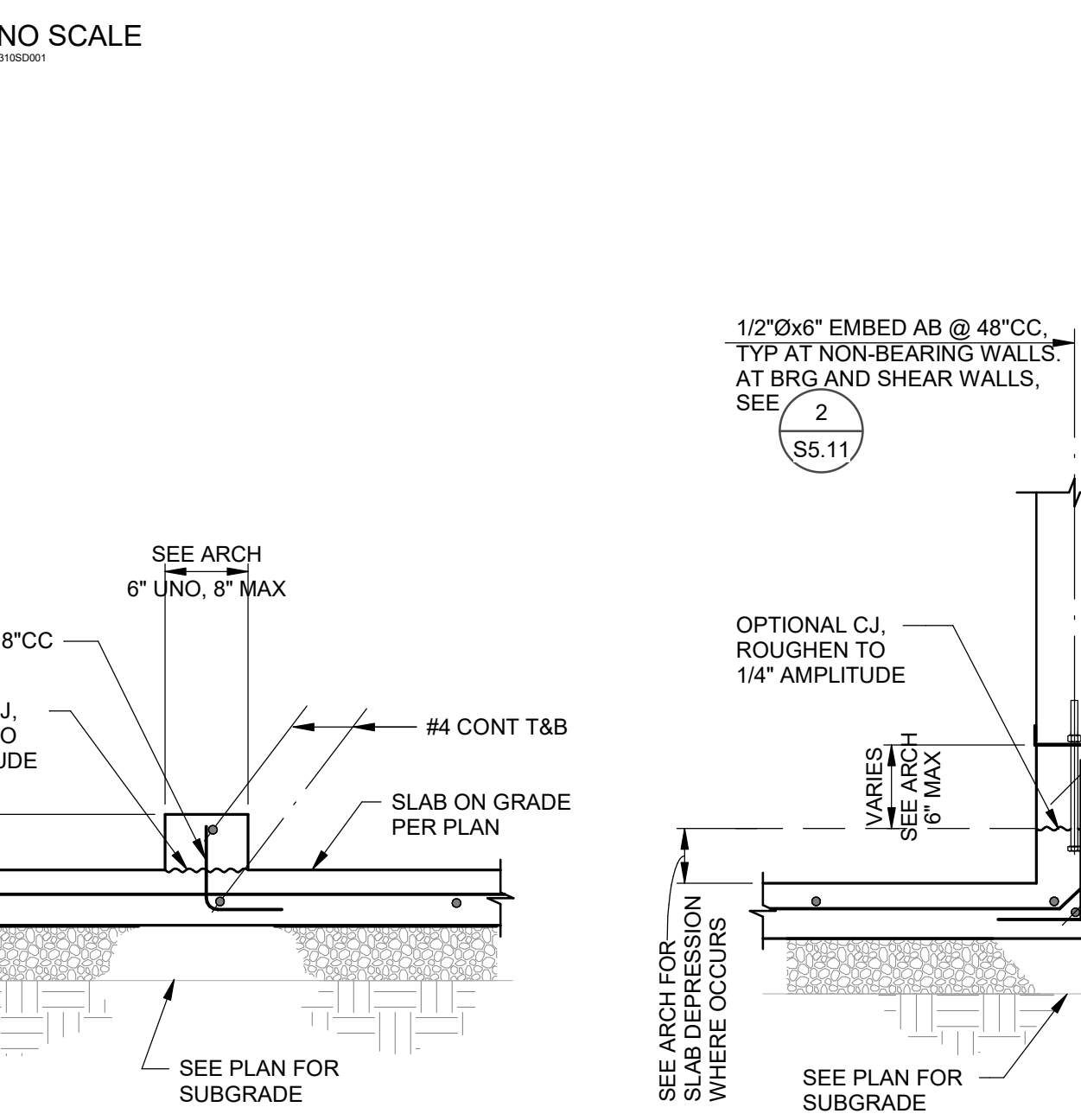
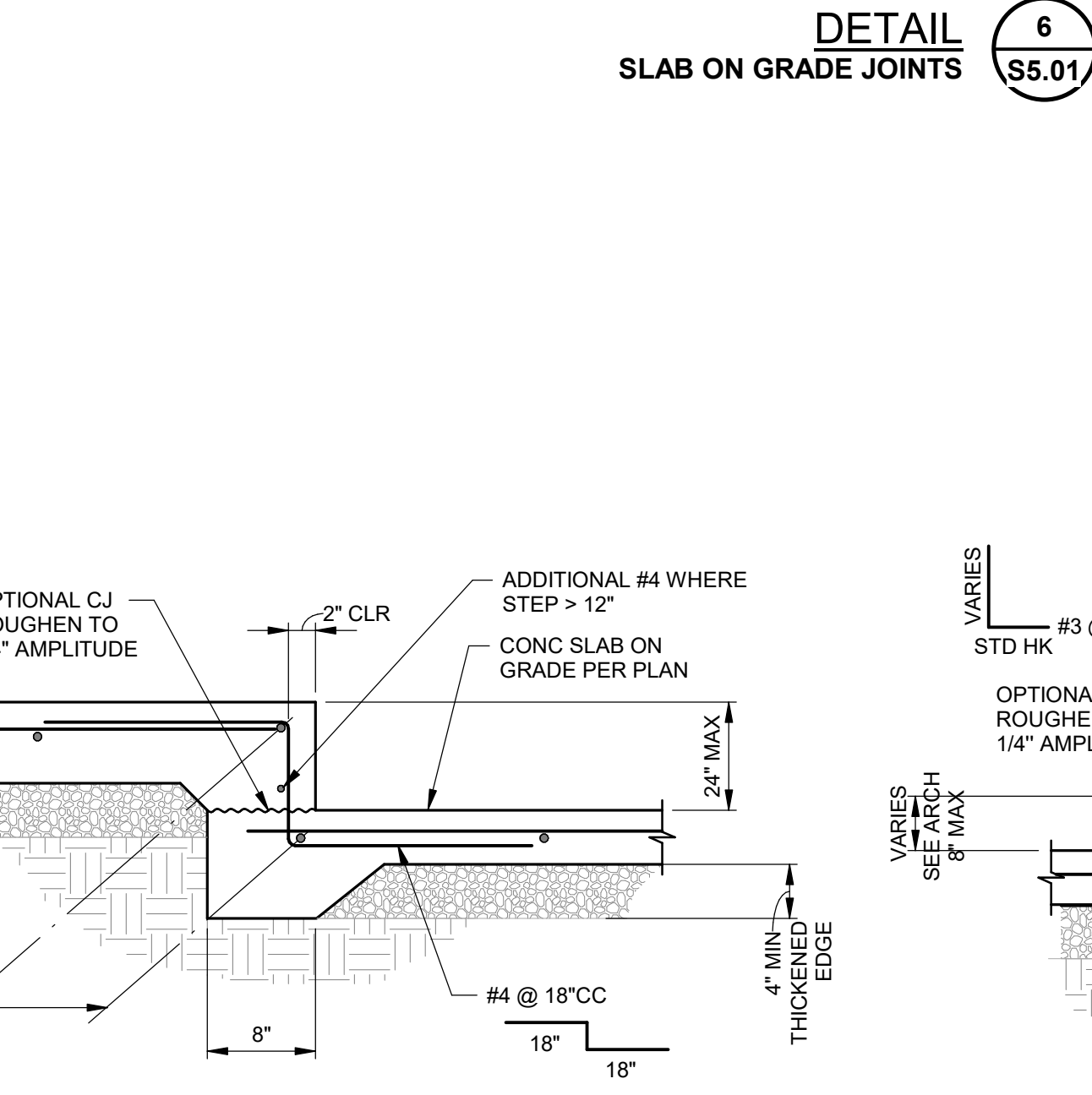
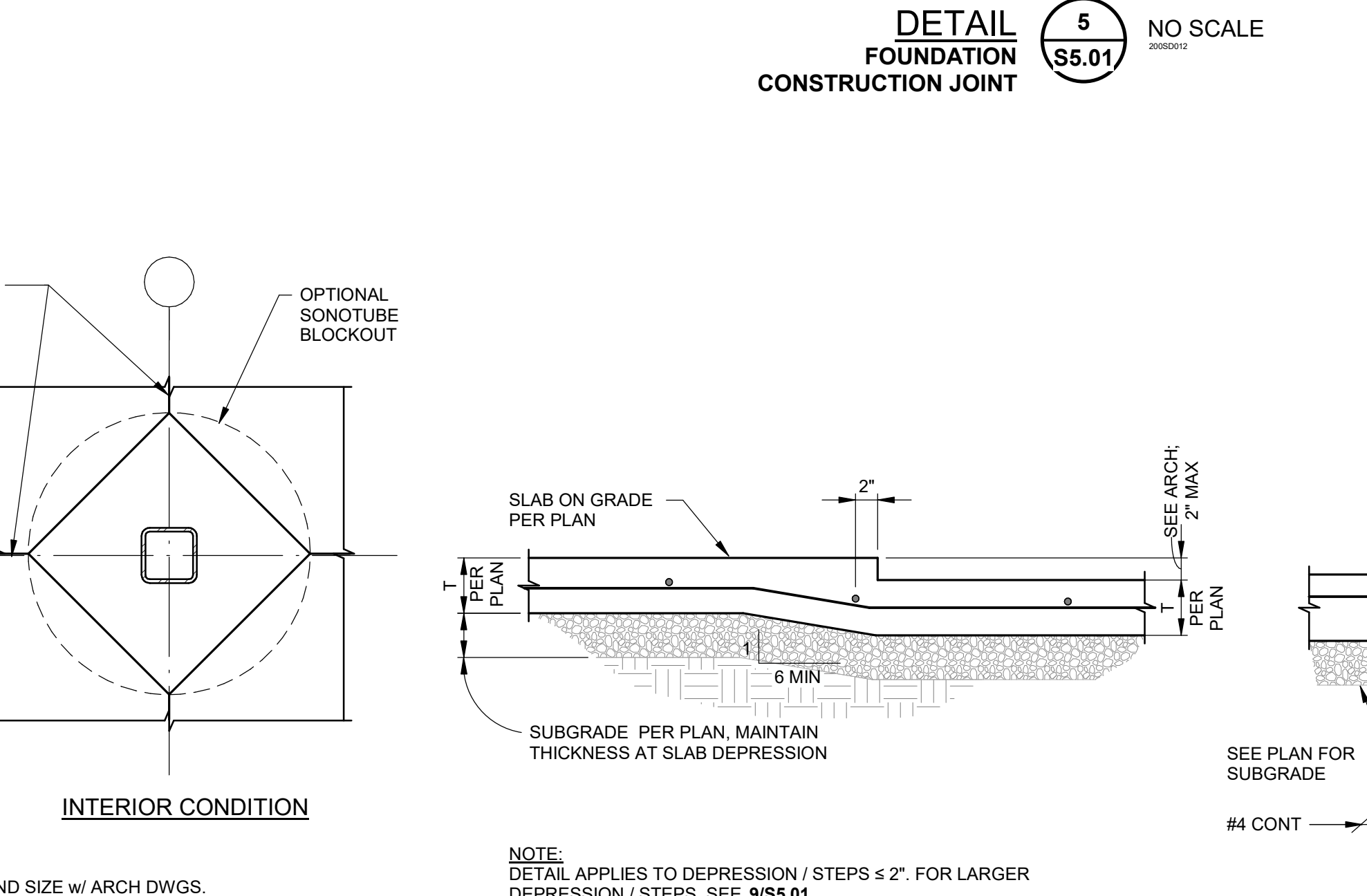
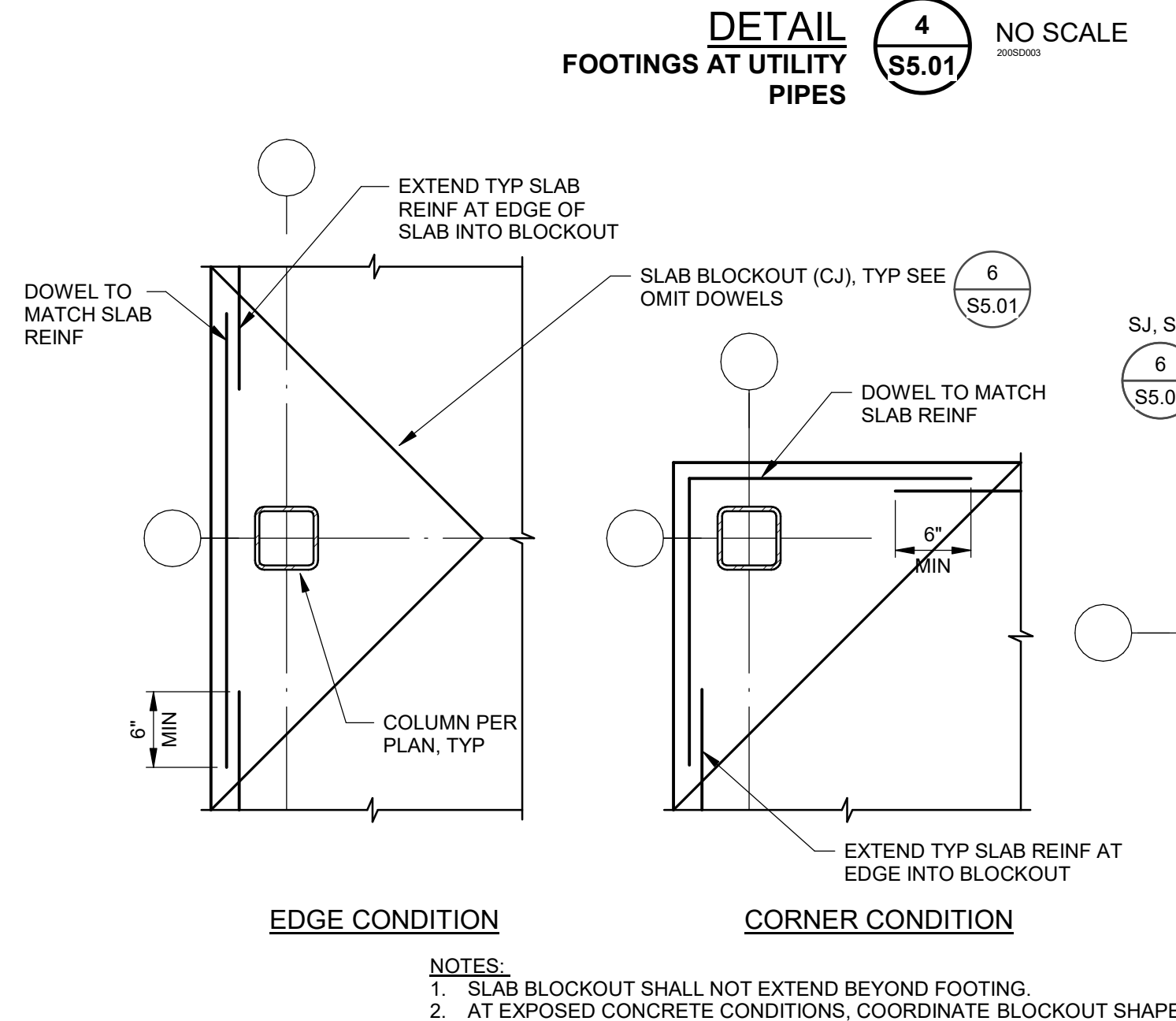
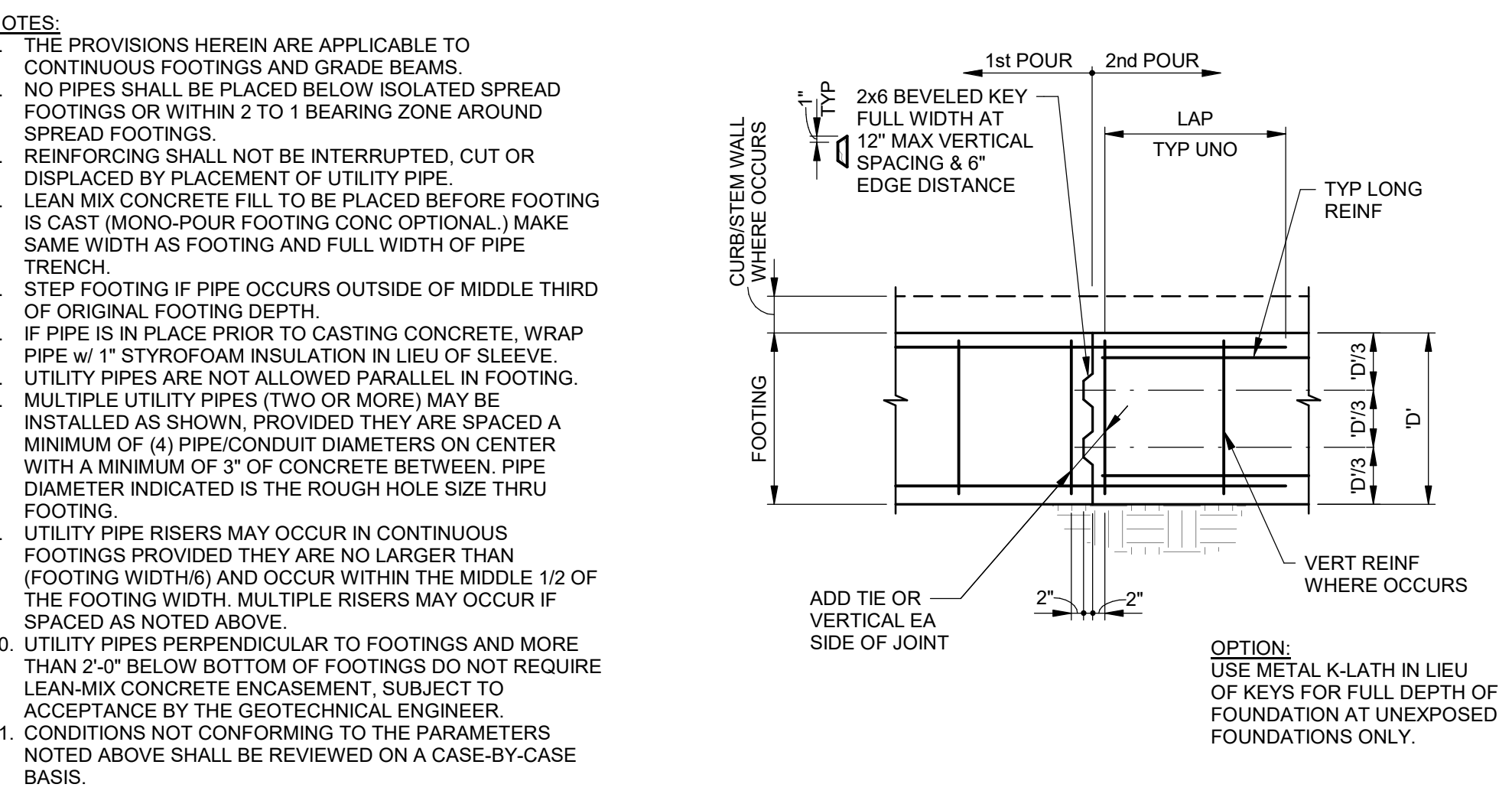
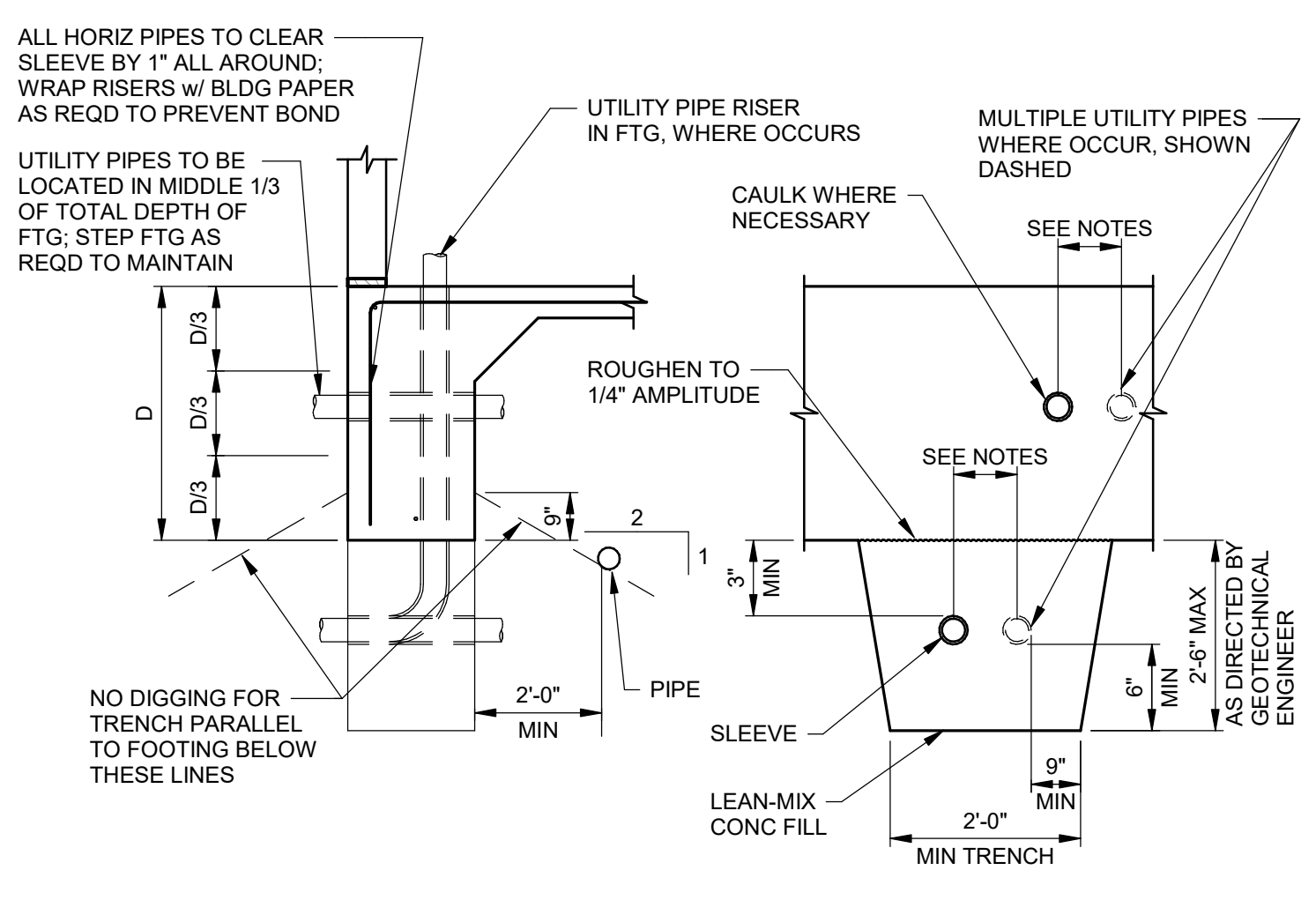
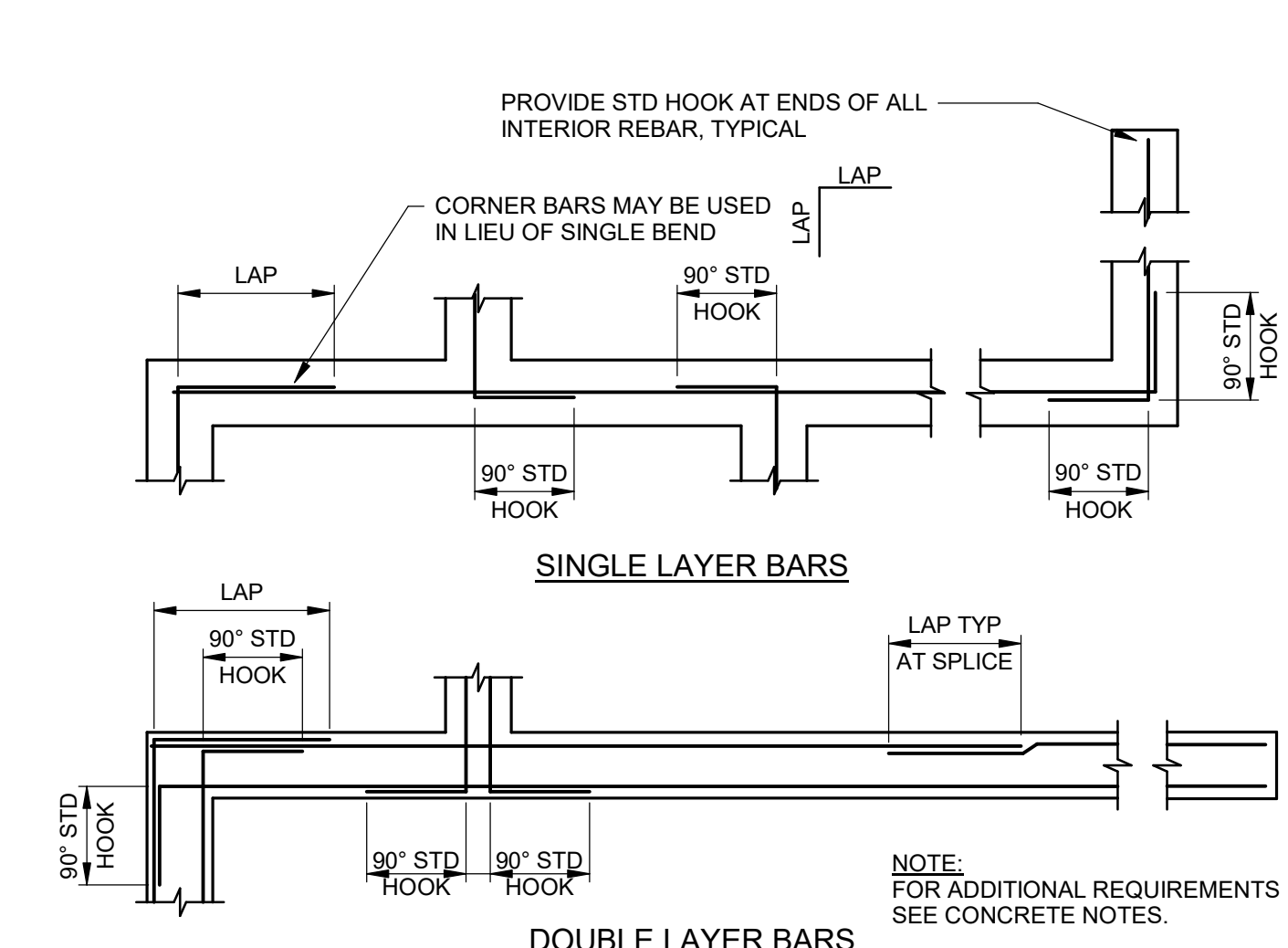
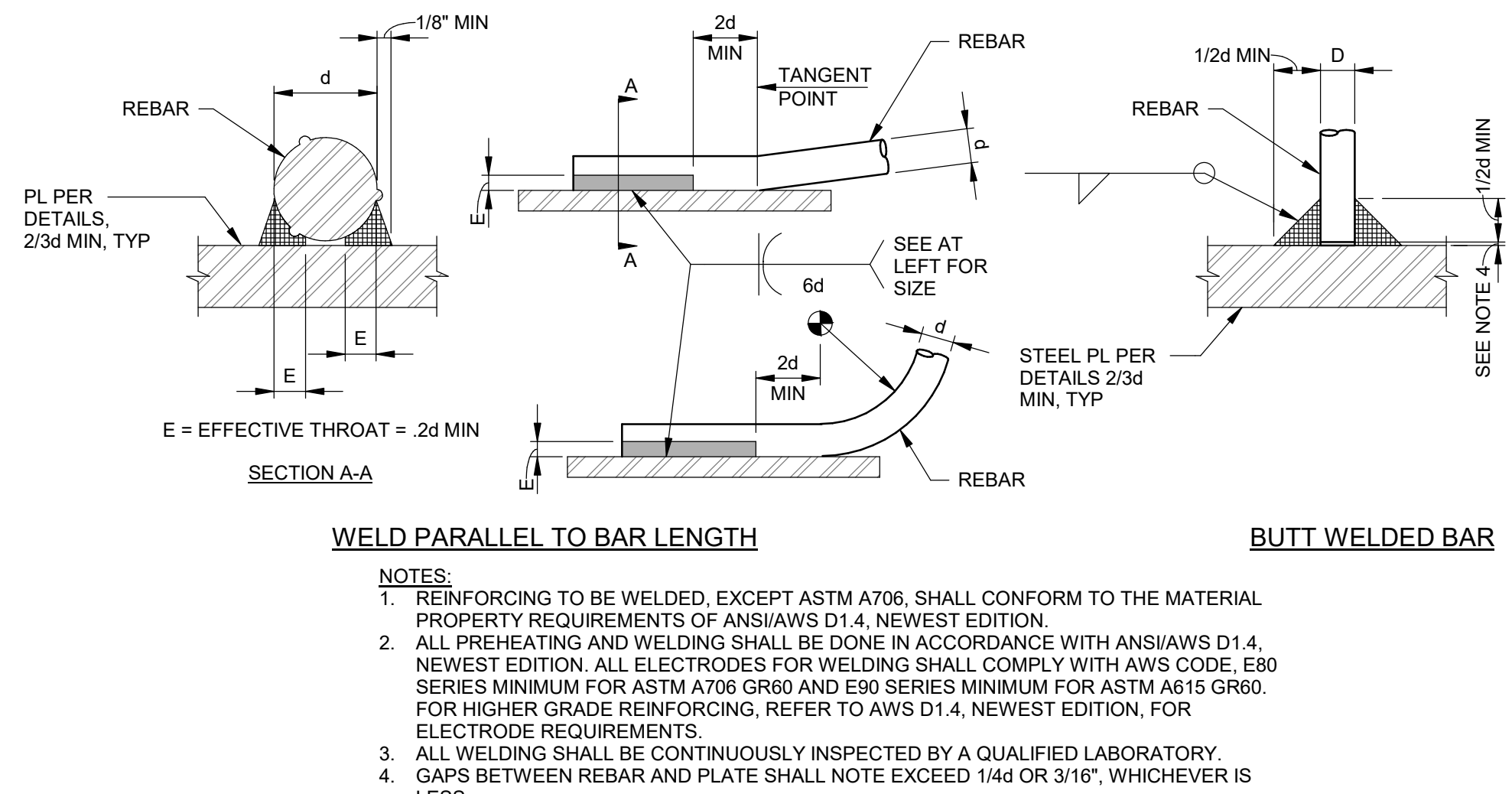
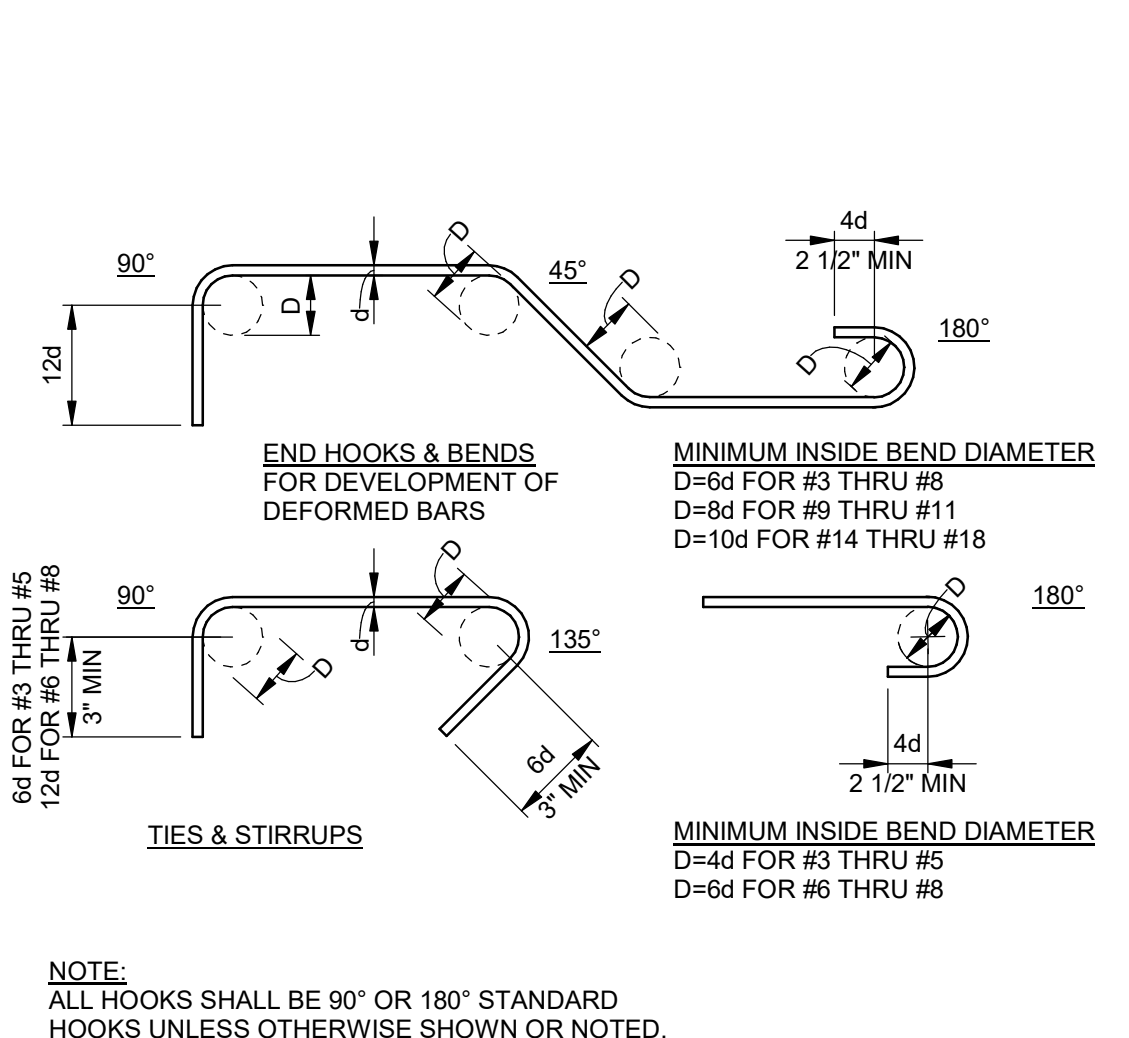
STAMPS

AGENCY APPROVAL

600 Q STREET, SUITE 200
SACRAMENTO, CA 95811
916-443-0303

CONSULTANT BRANDING

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TYPICAL DETAILS

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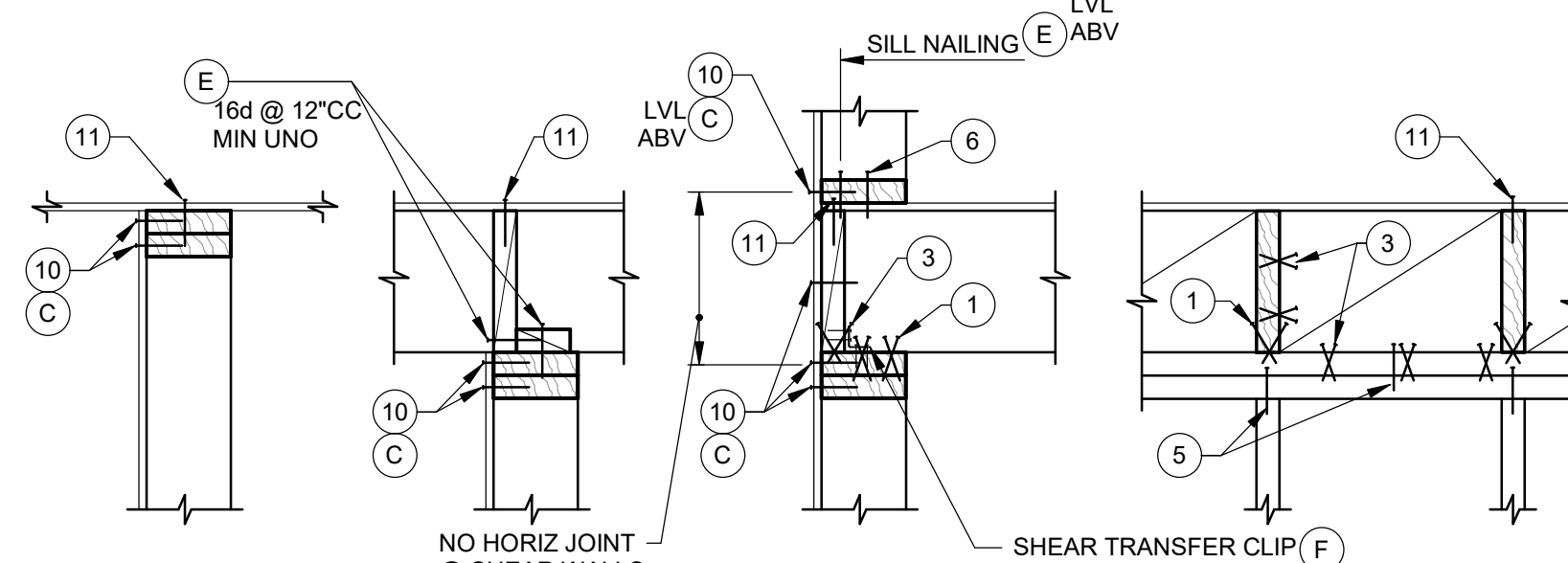
NAILING SCHEDULE

ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS UNO, CONFORMING TO THE FOLLOWING MINIMUM SIZES:

8d	- 0.131" SHANK DIA (0.281" HEAD DIA) x 2-1/2"
10d	- 0.148" SHANK DIA (0.312" HEAD DIA) x 3"
10d SHORT	- 0.148" SHANK DIA (0.312" HEAD DIA) x 1 1/2"
16d	- 0.182" SHANK DIA (0.344" HEAD DIA) x 3 1/2"
20d	- 0.192" SHANK DIA (0.406" HEAD DIA) x 4"
2x4 BOX	- 0.148" SHANK DIA (0.375" HEAD DIA) x 4"
4x4 BOX	- 0.182" SHANK DIA (0.406" HEAD DIA) x 5"
RSRS-03	- 0.131" SHANK DIA (0.281" HEAD DIA) x 2 1/2" (ROOF SHTG RING SHANK)

HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED BELOW OR ON PLANS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT. 8d FOR 1x MATERIAL AND 16d FOR 2x MATERIAL.

- JOISTS OR RAFTERS --- SAWN LUMBER BRG ON PLATES
 1-JOISTS BRG ON PLATES
 LAPPED TO SIDES OF STUDS
- STUDS TO BEARINGS --- 2x4 STUDS
 (3x, 4x SIM)
 2x6 AND 2x8 STUDS
 2x10 AND 2x12 STUDS
- BLOCKING --- BETWEEN JOISTS, RAFTERS OR STUDS
 BETWEEN JOIST OR RAFTER BEARINGS (PLATES) TO DBL TOP PLATES
- CONTINUOUS RIM --- TO DBL TOP PLATES
- LEDGERS --- TO STUDS
- DOUBLE TOP PLATES --- LOWER PLATE TO 2x4 STUD
 LOWER PLATE TO 2x6 OR 2x8 STUD
- SILL PLATES --- TO PARALLEL FRAMING
- MULTIPLE STUDS --- STAGGER FOR WIDTHS MORE THAN 4"
 BUILT UP BEAMS --- (2)2x MEMBERS, TOP AND BOTTOM
 3 OR MORE 2x MEMBERS
- CEILING STRIPPING --- HOLES SHALL BE PRE-DRILLED FOR NAILS AT ENDS OF STRIPPING BOARDS.
 WHERE CEILING IS PLASTER OR 9/8" GYPSUM USE ANNULAR RING NAILS (NO SLANT)
- CEILING STRIPPING --- HOLES SHALL BE PRE-DRILLED FOR NAILS AT ENDS OF STRIPPING BOARDS.
 WHERE CEILING IS PLASTER OR 9/8" GYPSUM USE ANNULAR RING NAILS (NO SLANT)
- FLOOR OR ROOF NAILING --- SEE PLAN NOTES AND S5.11
- NON-STRUCTURAL --- AT EDGES AND INTERIOR SUPPORTS
 SIDING
- NON-STRUCTURAL --- AT EDGES SHEATHING
- USE DEFORMED SHANK NAILS FOR ALL FLOOR SHEATHING.
- ALL EXPOSED FASTENERS SHALL HAVE A ZINC-COATING CORROSION RESISTIVE SURFACE.
- NAILS USED INTO PRESSURE TREATED OR FIRE RETARDANT MATERIAL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 OR STAINLESS STEEL.



NOTES:

(#) INDICATES CORRESPONDING NOTE FROM NAILING SCHEDULE. THIS IS THE MINIMUM REQUIRED NAILING. SHEAR WALL SCHEDULE NAILING SUPERCEDES THIS DETAIL.

(X) INDICATES CORRESPONDING NAILING FROM SHEAR WALL SCHEDULE S5.12.

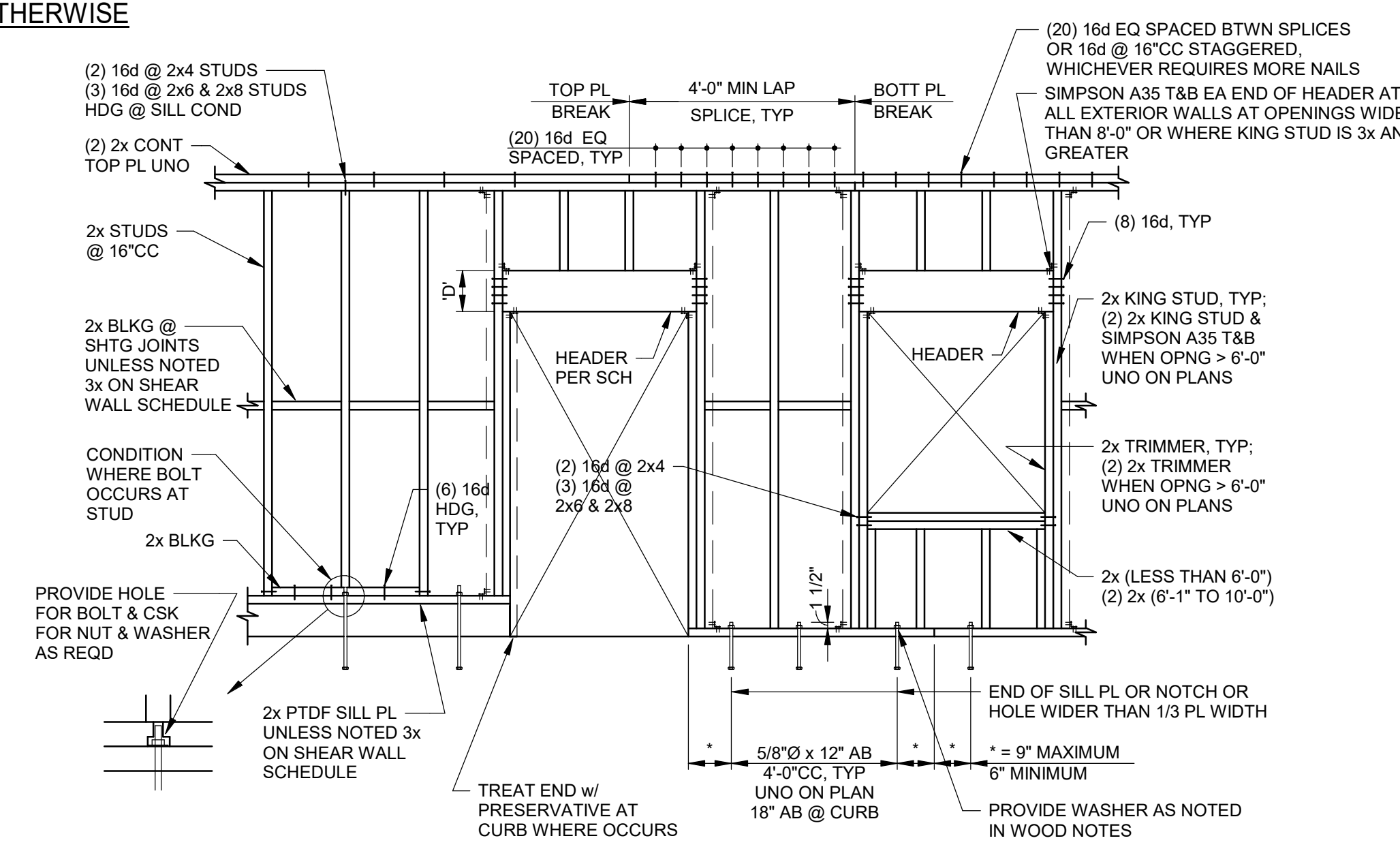
DETAIL 1
TYPICAL NAILING
NO SCALE
S5.11

HEADER SCHEDULE

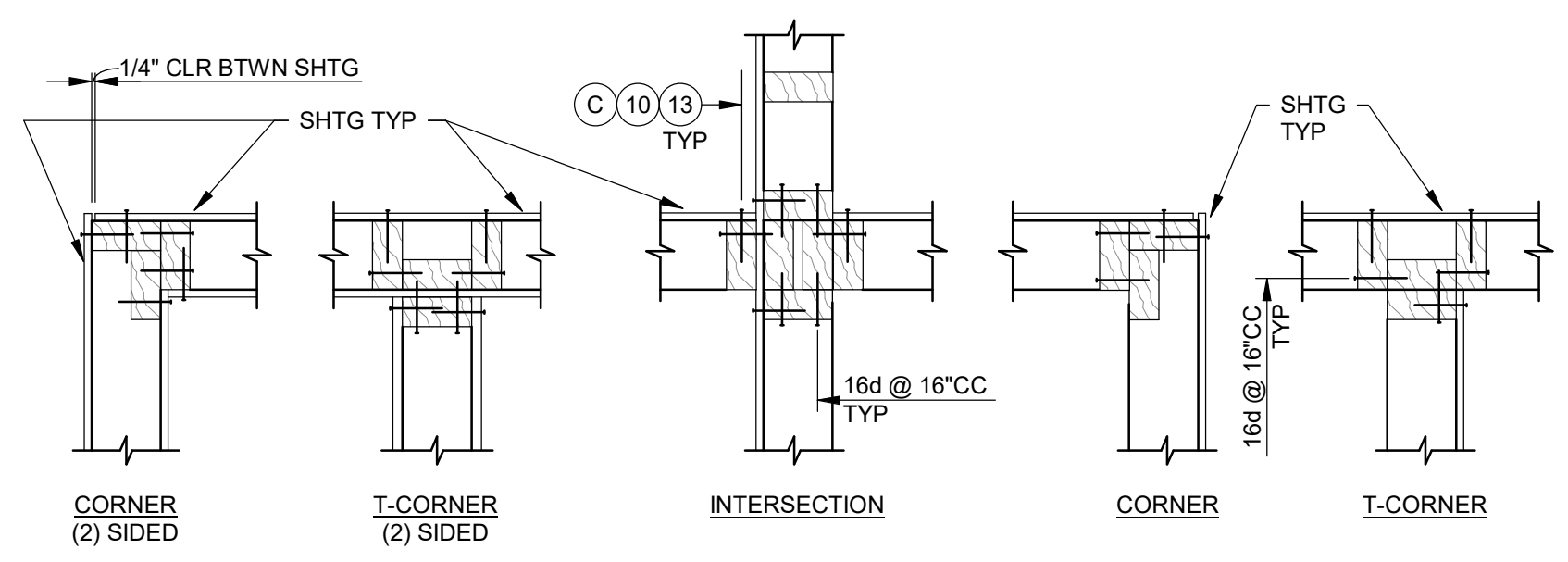
WIDTH OF OPENING	NOMINAL HEADER DEPTH 'D'
0 TO 4'-0"	8"
4'-1" TO 6'-0"	10"
6'-1" TO 8'-0"	12"
> 8'-0"	SEE PLAN

TYP UNO ON PLAN OR IN PLAN NOTES

- NOTES:**
- HEADER SHALL BE FULL WIDTH OF STUD WALL.
 - PROVIDE POSTS & ANCHORS AT HOLD-DOWNS WHERE OCCUR PER PLAN. SEE S5.12.
 - AT OPENINGS FOR MECH DUCTS, SEE S5.12.
 - FOR SHEAR WALL NAILING, SEE SCH AND S5.12.
 - LOCATE TOP PLATE BREAKS OVER STUDS.



DETAIL 2
STRUCTURAL WALL FRAMING
NO SCALE
S5.11

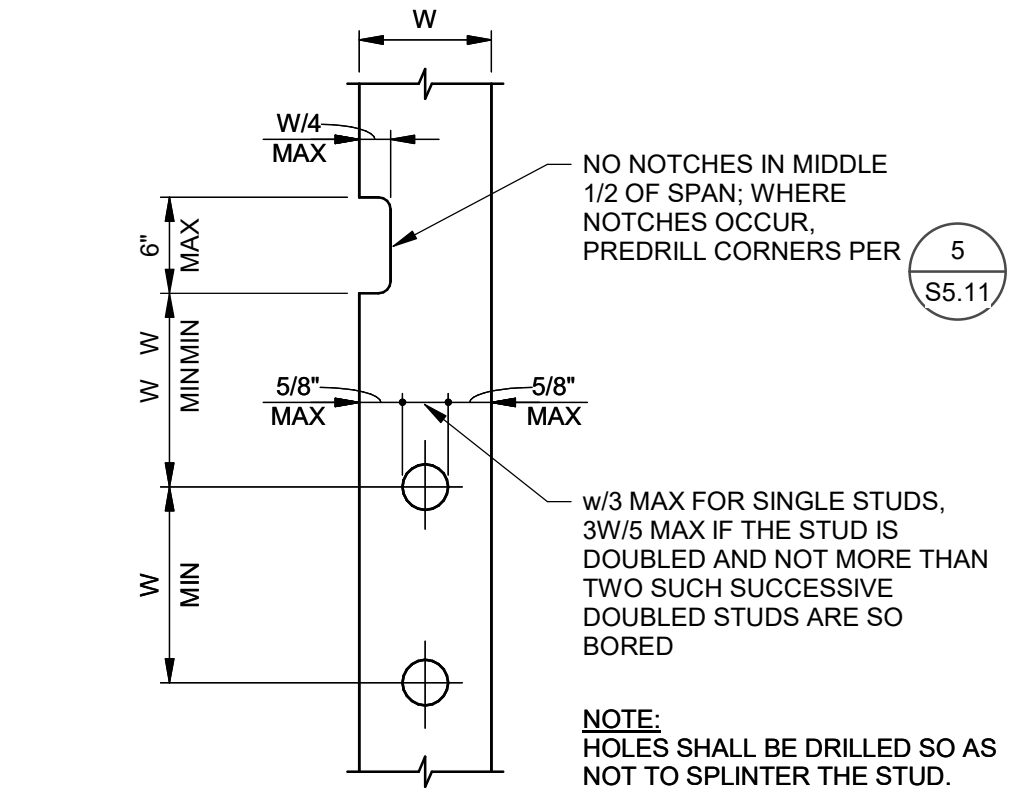


NOTES:

(#) INDICATES CORRESPONDING NOTE FROM NAILING SCHEDULE ON GENERAL NOTES SHEET. THIS IS THE MINIMUM REQUIRED NAILING. SHEAR WALL SCHEDULE NAILING SUPERCEDES THIS DETAIL.

(X) INDICATES CORRESPONDING NAILING FROM SHEAR WALL SCHEDULE S5.12.

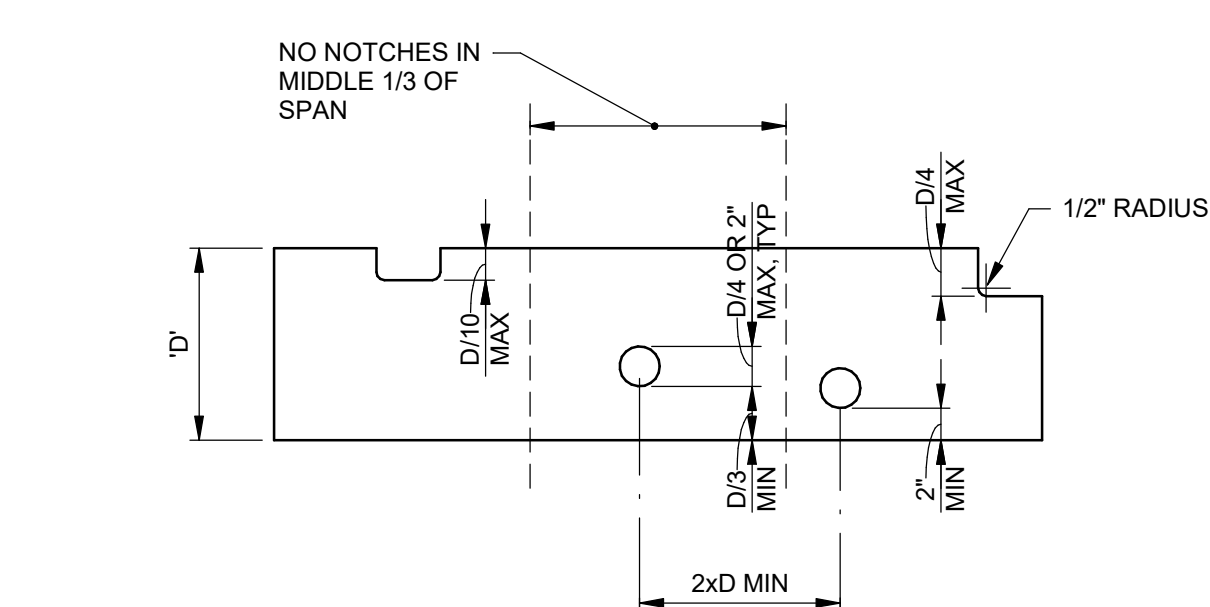
DETAIL 3
STRUCTURAL STUD FRAMING CONDITIONS
NO SCALE
S5.11



NOTES:

HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD.

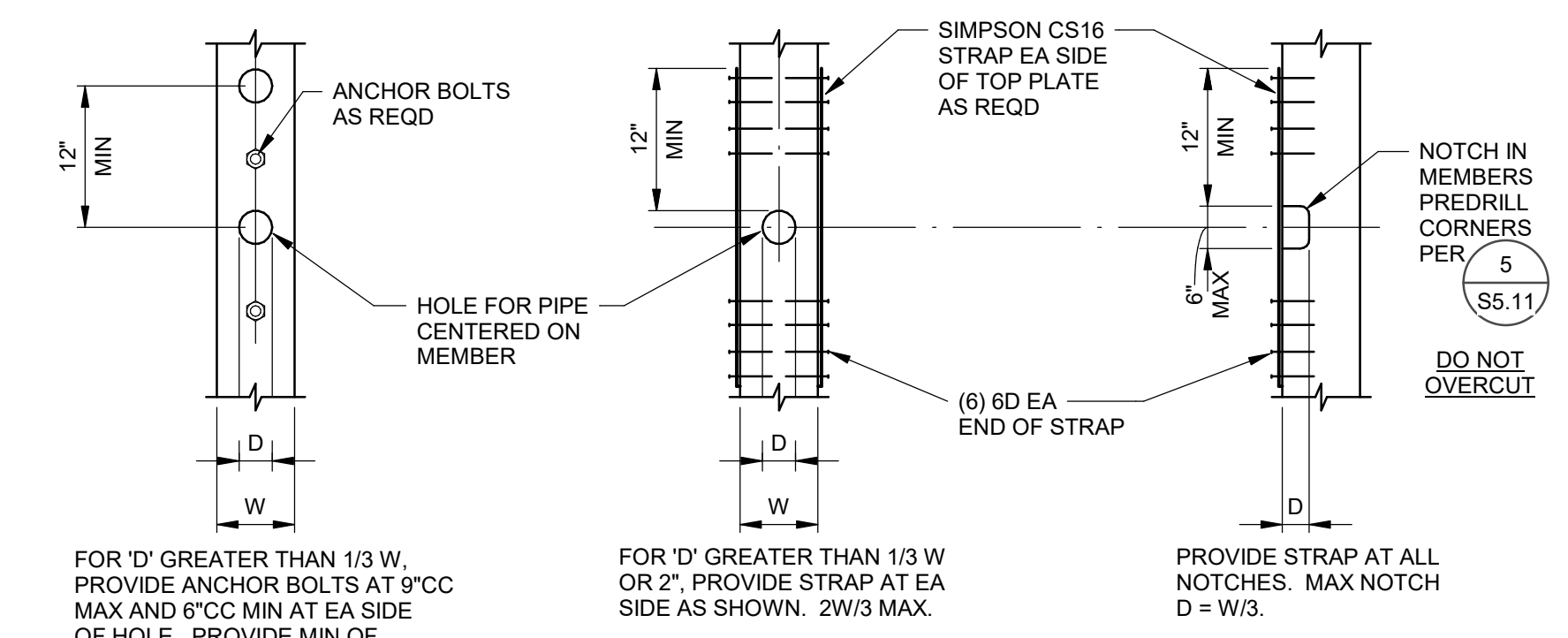
DETAIL 4
HOLE OR NOTCH AT STUD
NO SCALE
S5.11



NOTES:

- PREDRILL CORNERS OF NOTCHES SO AS NOT TO OVER CUT.
- NOTCHES IN THE BOTTOM OF JOISTS ALLOWED ONLY WHERE SPECIFICALLY SHOWN ON DRAWINGS.
- APPLIES TO SAWN LUMBER MEMBERS ONLY. NO NOTCHES ALLOWED IN OTHER TYPES OF MEMBER UNLESS SPECIFICALLY DETAILED IN THE DRAWINGS.

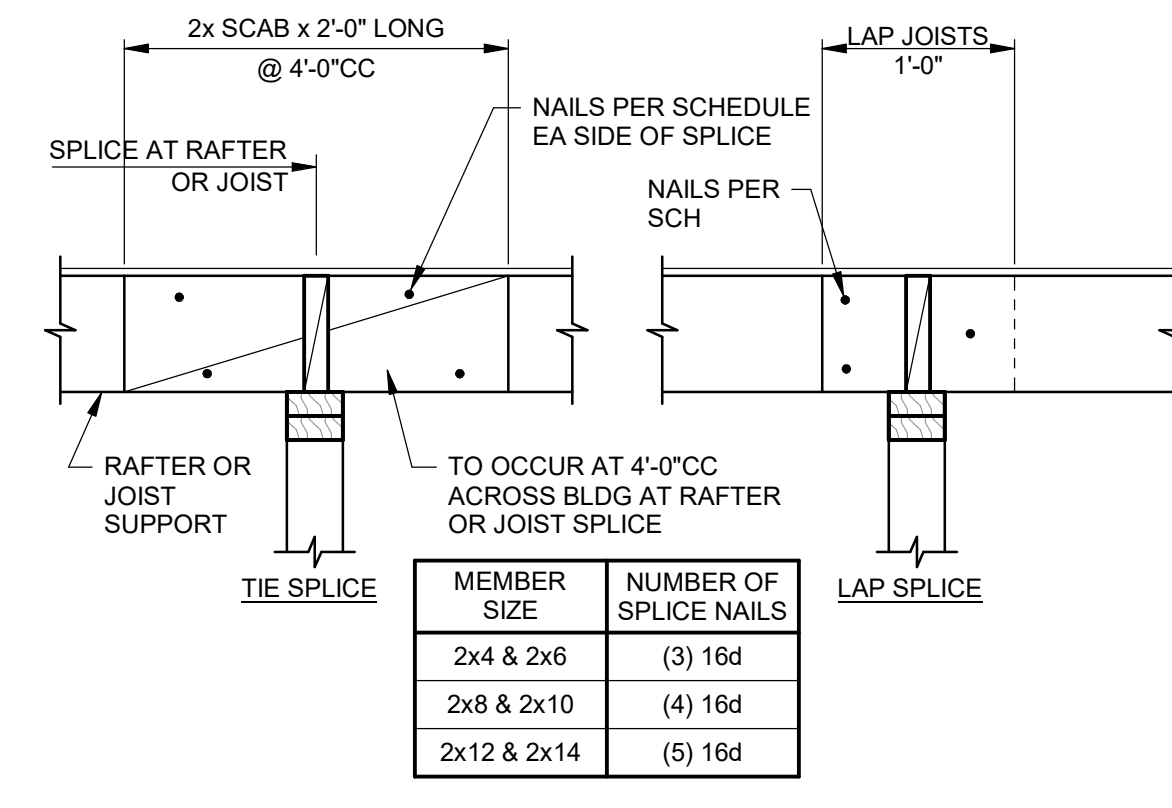
DETAIL 5
NOTCHES IN JOISTS & HEADERS
NO SCALE
S5.11



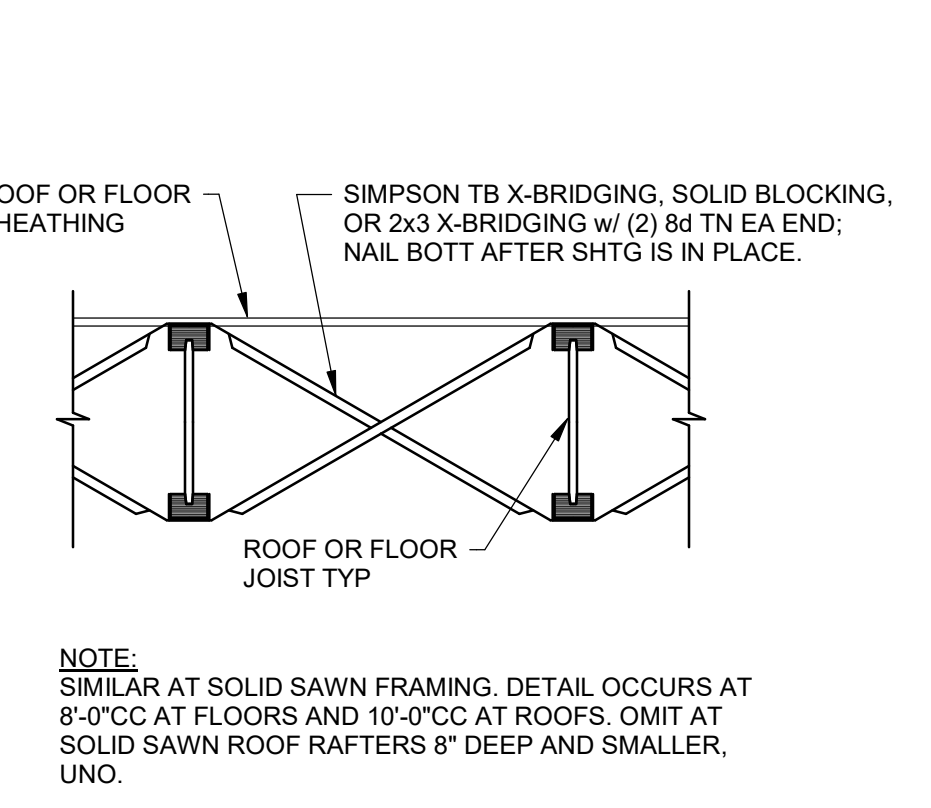
NOTES:

FOR MULTIPLE HOLES AND NOTCHES, MAINTAIN 18" CLEAR MIN AND EXTEND STRAP 12" PAST LAST HOLE OR NOTCH.

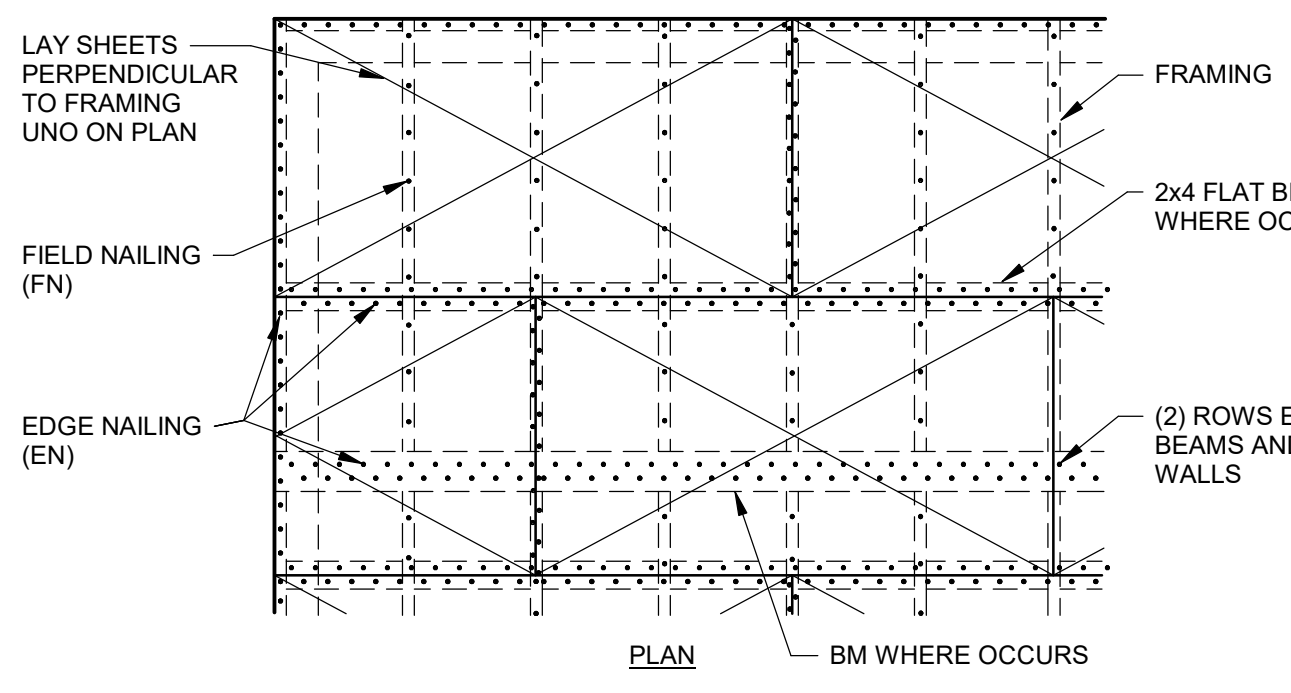
DETAIL 6
HOLE OR NOTCH THROUGH PLATES
NO SCALE
S5.11



DETAIL 7
JOIST & RAFTER SPLICE
NO SCALE
S5.11



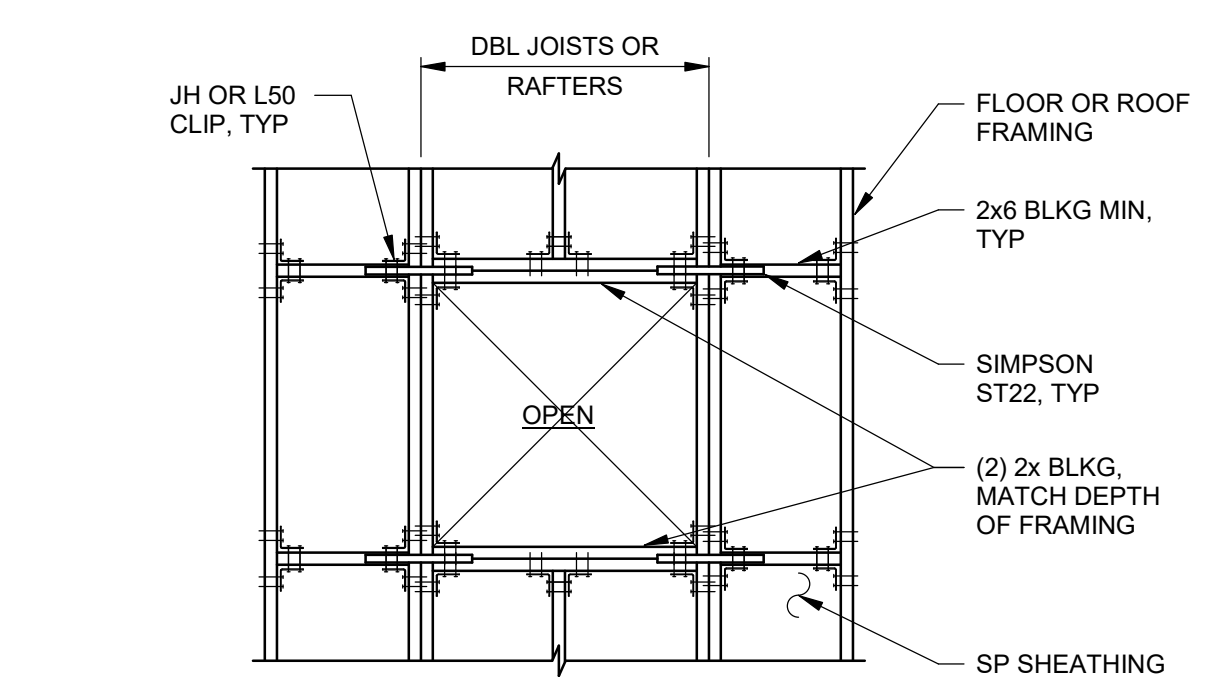
DETAIL 8
CROSS BRIDGING
NO SCALE
S5.11



NOTES:

- SEE PLAN FOR SHEATHING TYPE AND NAIL SIZE AND SPACING.
- PROVIDE EN AT ALL SHEET EDGES, BEAMS, SHEAR WALLS, BLOCKING, AND MECHANICAL UNITS.
- FN SHALL BE PER PLAN.
- EN SHALL BE @ 12"CC. NAIL SIZE TO MATCH EN.
- PROVIDE FLAT BLOCKING AND EN AT ALL UNSUPPORTED EDGES WHERE BLOCKING AND NAILING ARE INDICATED ON PLAN.
- STAGGER SP JOINTS AS SHOWN. MINIMUM PANEL DIMENSION IN EITHER DIRECTION IS 24".
- EN SHALL BE 16d NAILS, UNO.
- FRAMING AT PANEL EDGES, SHALL BE 3x WHERE NAILS ARE SPACED < 3"CC.
- ALL 3x AND GREATER MATERIAL IN DIAPHRAGMS SHALL BE LESS THAN 19% MOISTURE CONTENT UNLESS SPECIFICALLY ALLOWED BY SEOR IN WRITING.

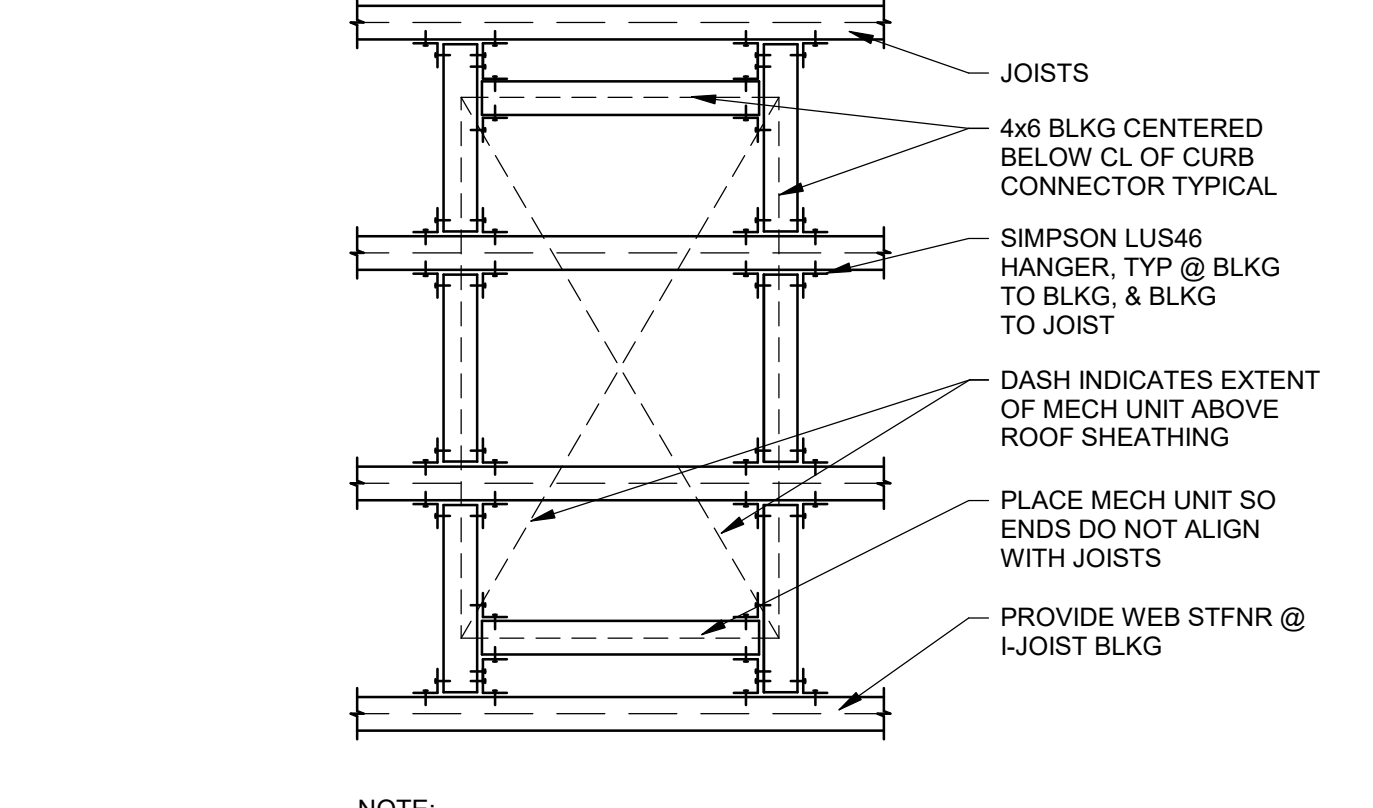
DETAIL 9
FLOOR & ROOF NAILING
NO SCALE
S5.11



NOTES:

OPENINGS TO BE 4'-0" SQUARE MAXIMUM SPACING NO CLOSER THAN 6'-0"CC

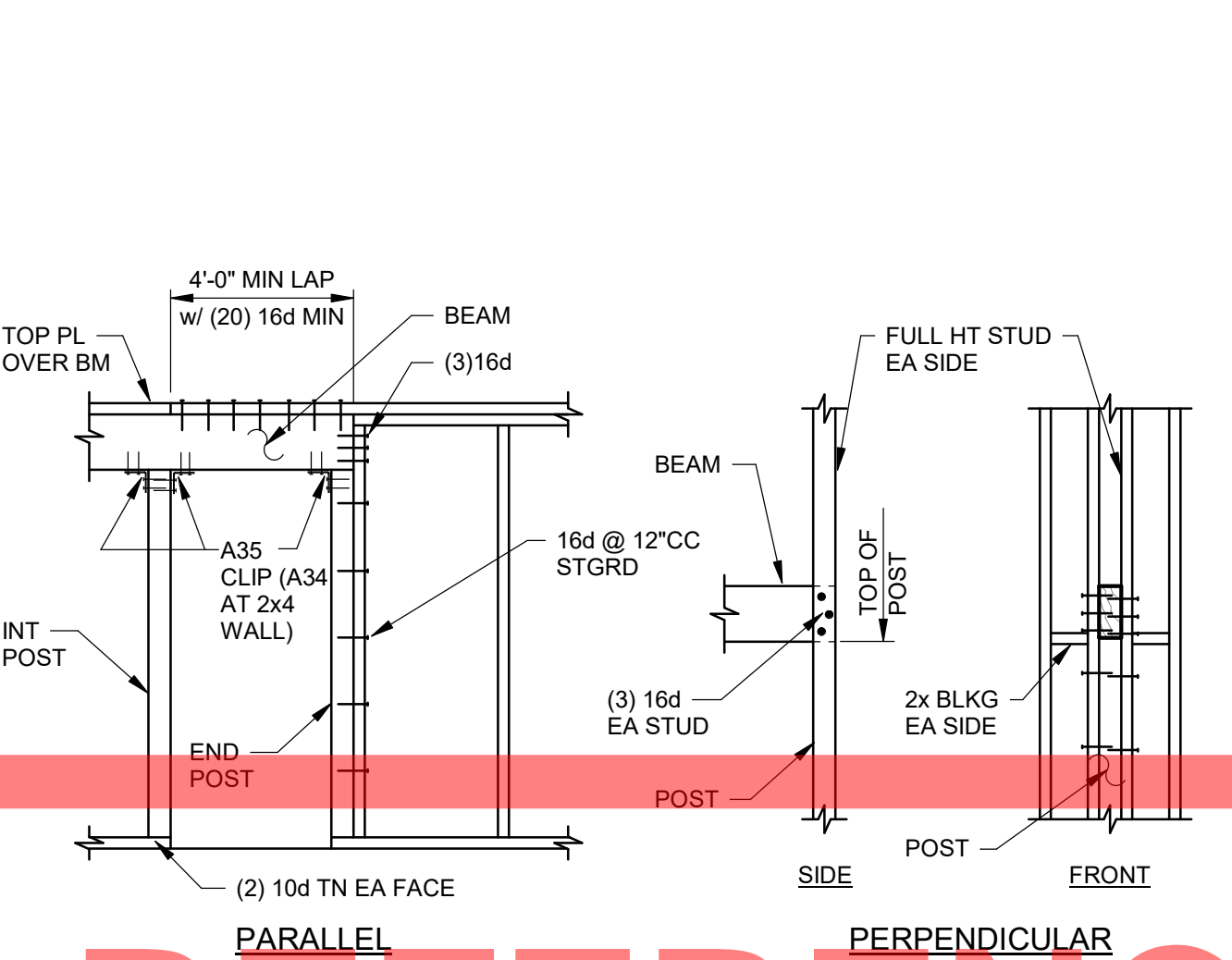
DETAIL 10
OPENING IN FLOOR OR ROOF
NO SCALE
S5.11



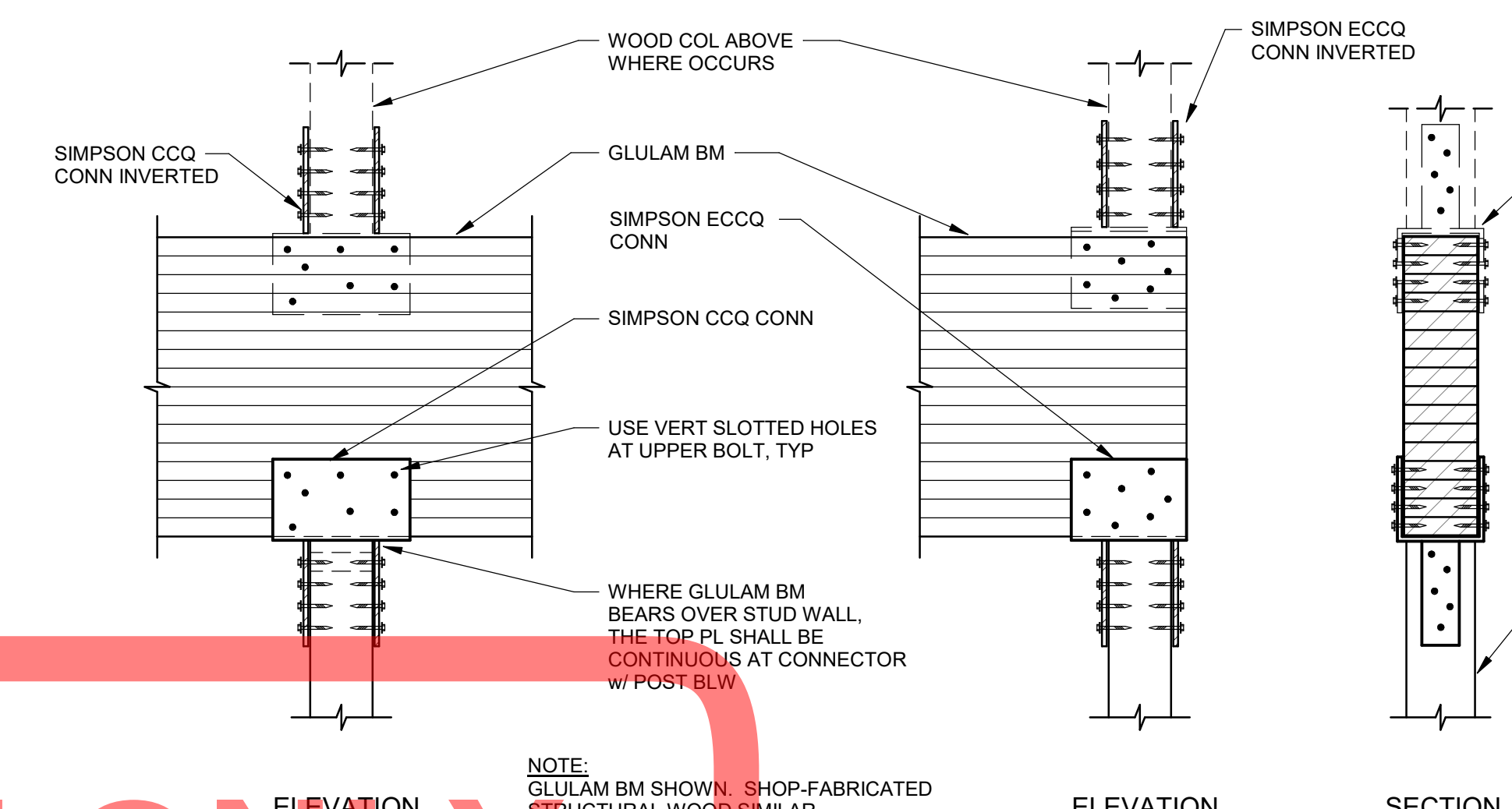
NOTES:

ALL UNITS SHALL BE PLACED TO ELIMINATE JOISTS WHICH MUST BE HEADED OFF FOR PLENUMS

DETAIL 11
MECHANICAL UNIT SUPPORT AT JOISTS
NO SCALE
S5.11



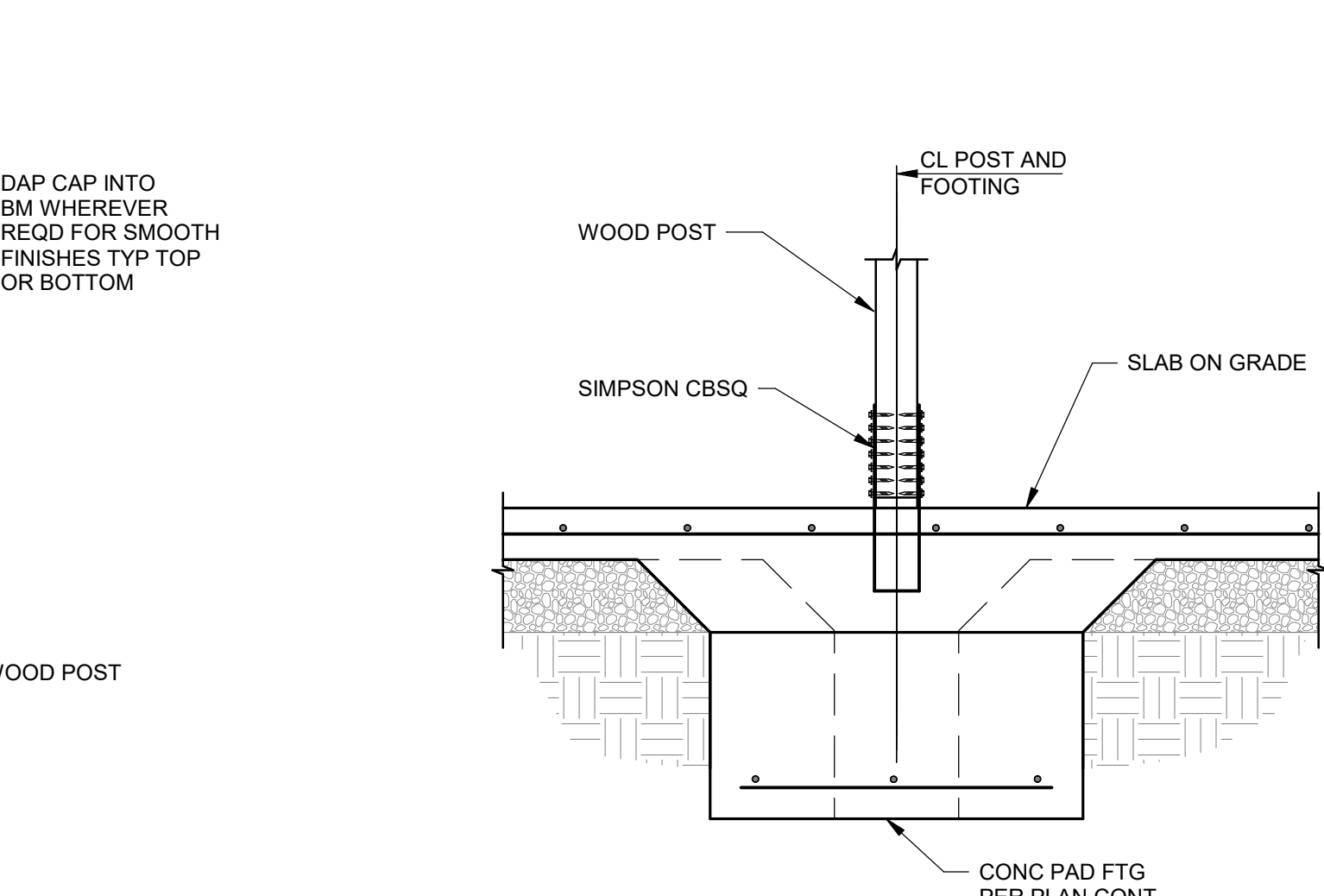
DETAIL 12
POST & BEAM CONNECTION
NO SCALE
S5.11



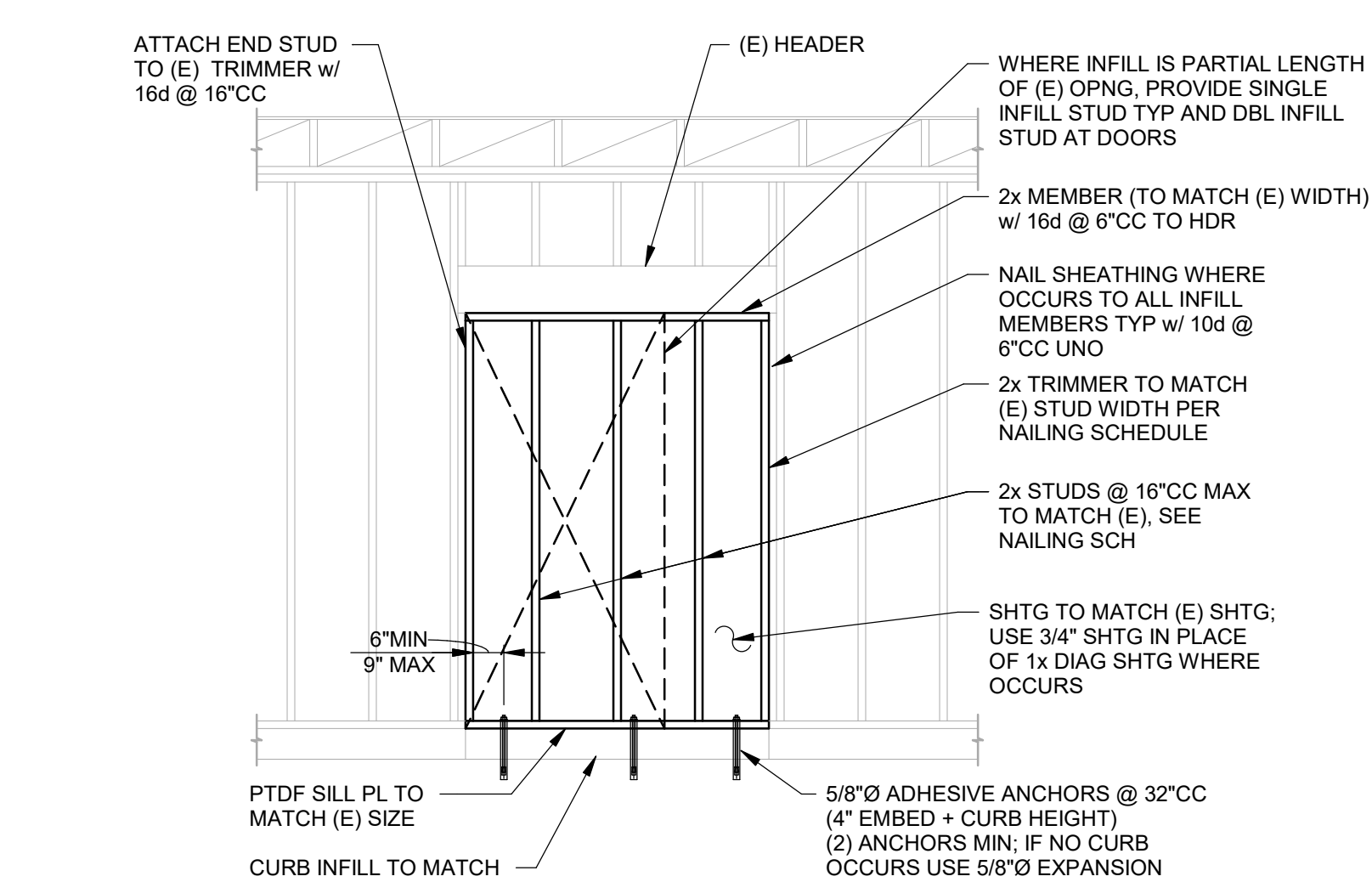
NOTE:

GLULAM BM SHOWN. SHOP-FABRICATED STRUCTURAL WOOD SIMILAR.

DETAIL 13
BEAM AT POST W/ CAP
NO SCALE
S5.11



DETAIL 14
POST BASE
NO SCALE
S5.11



DETAIL 15
INFILL
NO SCALE
S5.11

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DATE	BY	REVISION

RUHNAU CLARKE ARCHITECTS

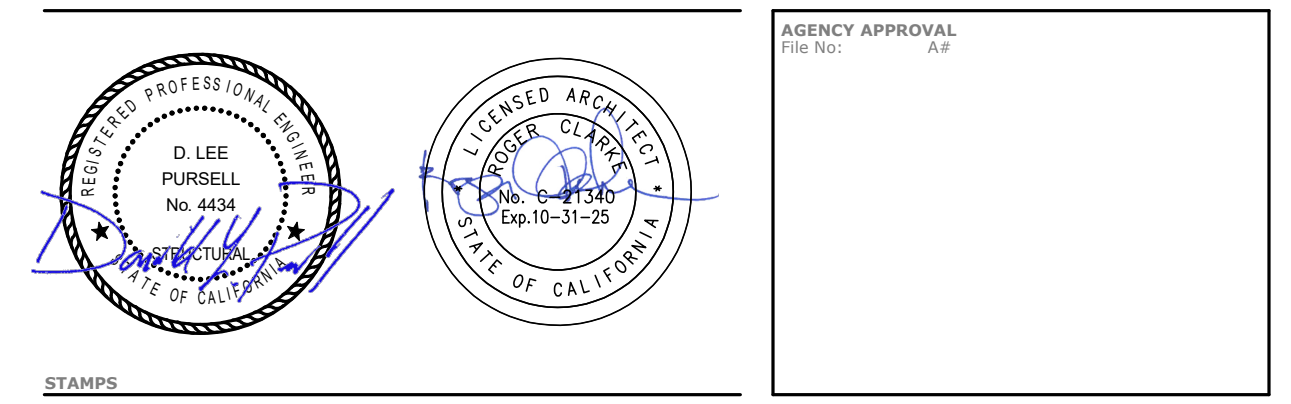
600 Q STREET, SUITE 200
SACRAMENTO, CA 95811
916.443.0303

CONSULTANT BRANDING

KITCHEN UPGRADES AT JOYCE E.S.

TYPICAL DETAILS

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

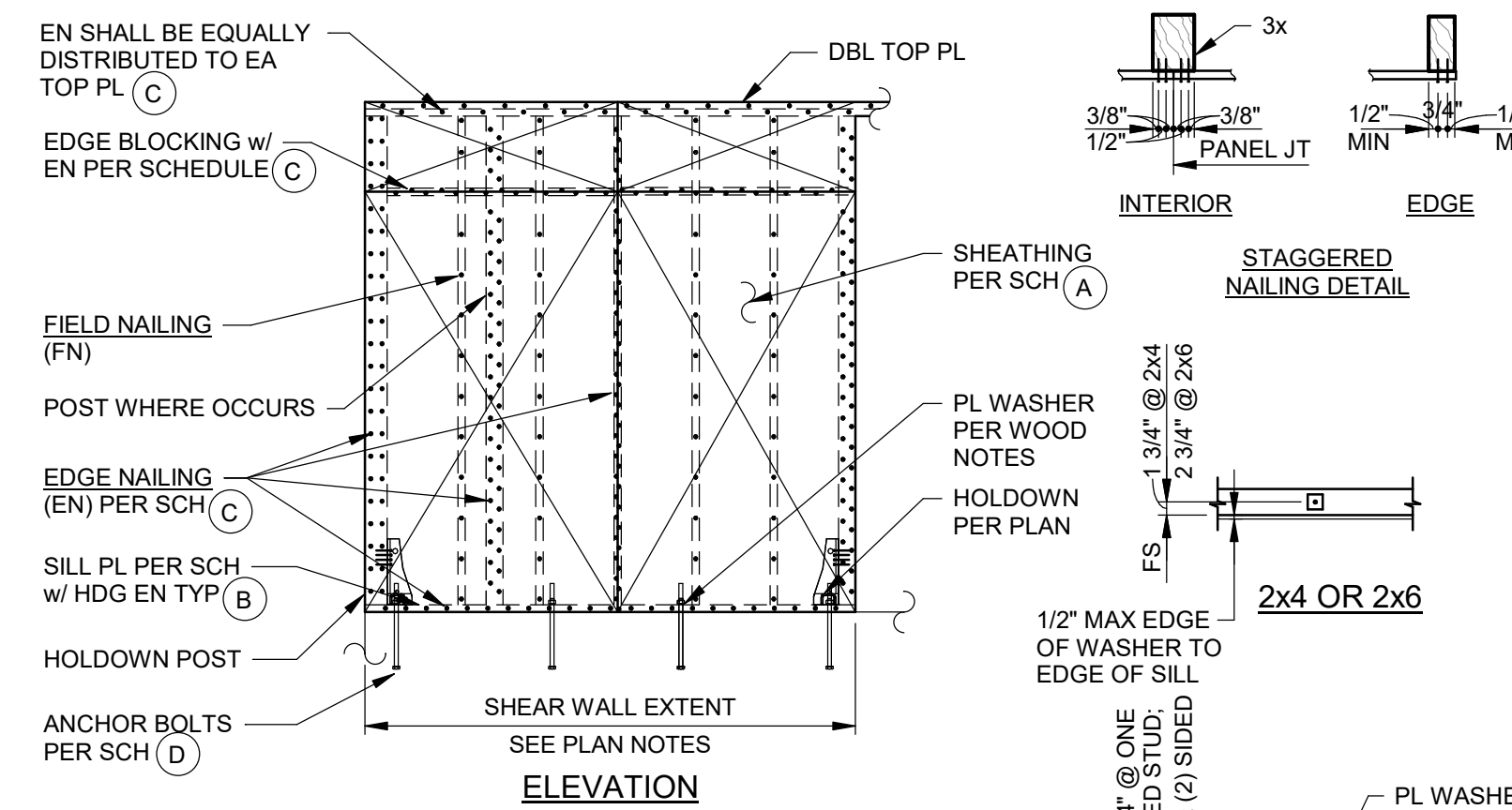


A SHEAR WALL SCHEDULE						
15/32" APA RATED SHEATHING						
Mk	SHEATHING MATERIAL (A)	STUDS & BLKG @ PANEL JOINTS (B)	SILL & TOP PLATES (C)	SHEATHING EDGE NAILING (D)	ANCHOR BOLT SPACING (E)	SHEAR/SILL TRANSFER FASTENERS (F)
1	15/32" SHTG ONE SIDE	2x	2x	10d @ 6"CC	5/8" @ 32"CC	SDS @ 8"CC @ 12"CC
2	15/32" SHTG ONE SIDE	2x	2x	10d @ 4"CC	5/8" @ 24"CC	SDS @ 6"CC @ 8"CC
3	15/32" SHTG ONE SIDE	3x	2x TYP UNO 3x @ FND	10d @ 3"CC STAGGERED	5/8" @ 24"CC	SDS @ 8"CC INTO RIM & 8"CC INTO 2x BLKG @ 8"CC
4	15/32" SHTG ONE SIDE	3x	2x TYP UNO 3x @ FND	10d @ 2"CC STAGGERED	5/8" @ 16"CC	SDS @ 8"CC INTO RIM & 8"CC INTO 2x BLKG @ 8"CC (2) SIDES
5	15/32" SHTG (2) SIDES	ALL STUDS	2x TYP UNO 3x @ FND	10d @ 4"CC	5/8" @ 16"CC	SDS @ 8"CC INTO RIM & 8"CC INTO 2x BLKG @ 8"CC (2) SIDES
6	15/32" SHTG (2) SIDES	ALL STUDS	2x TYP UNO 3x @ SILL PL	10d @ 3"CC STAGGERED	5/8" @ 12"CC	SEE SECTION OR DETAIL
7	15/32" SHTG (2) SIDES	ALL STUDS	2x TYP UNO 3x @ SILL PL	10d @ 2"CC STAGGERED	5/8" @ 8"CC	SEE SECTION OR DETAIL

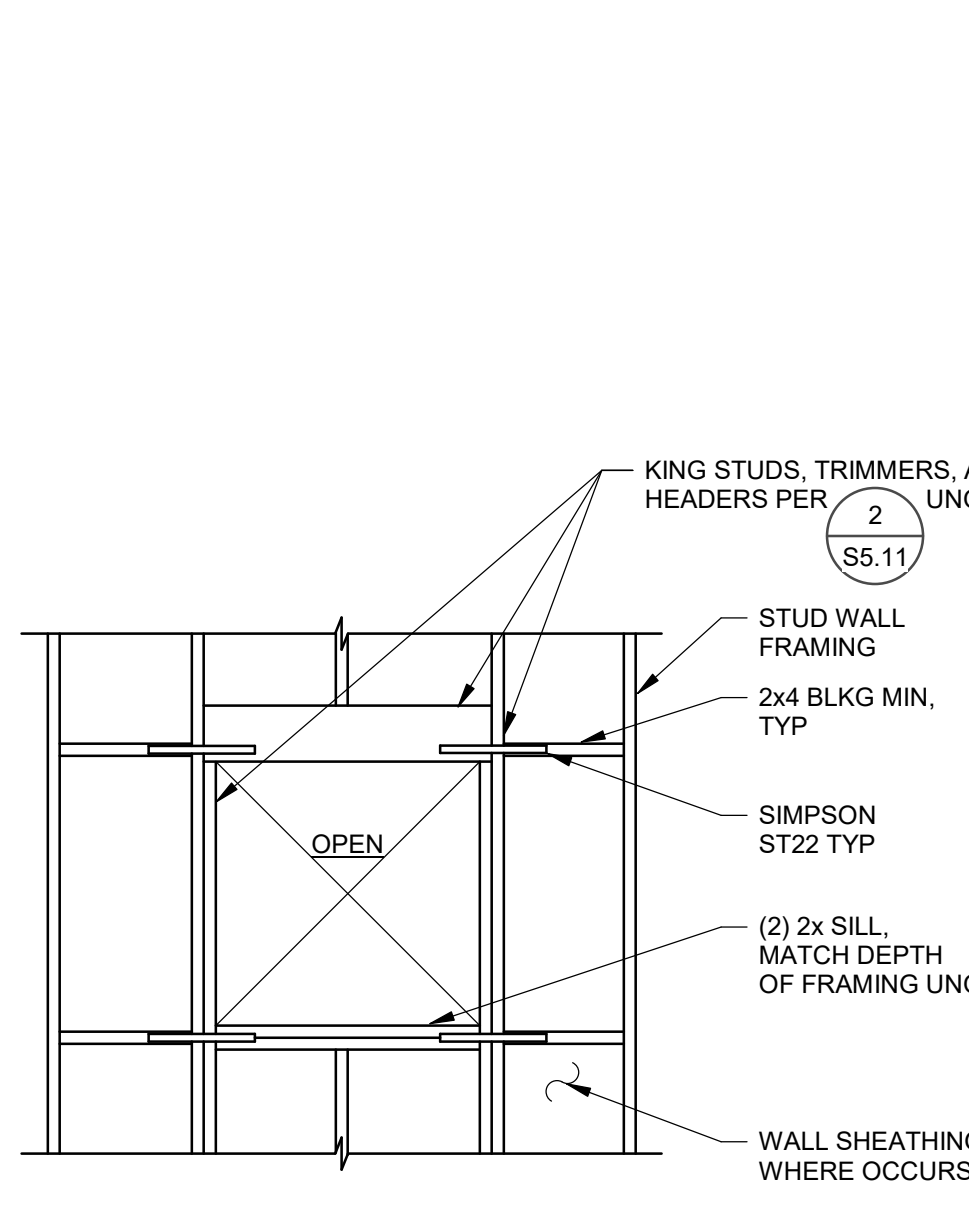
NOTES:
 A. APA RATED SHEATHING GRADE.
 B. ALL TOP PLATES SHALL BE (2) 2x NOMINAL UNO ON SECTIONS OR DETAILS. NAILING SHALL BE STAGGERED BETWEEN PLATES.
 C. FOR SHEAR WALL NAILING AND FRAMING REQUIREMENTS, SEE 1/5S.12.
 D. PROVIDE 12" LONG ANCHOR BOLTS EXCEPT AT CONCRETE OVER METAL DECK WHERE A MINIMUM OF 5" EMBEDMENT IS REQUIRED. PROVIDE 18" LONG ANCHOR BOLTS AT CURBS. TYP. SEE WOOD NOTES ON GENERAL NOTES SHEET FOR WASHER REQUIREMENTS.
 E. SHEAR/SILL FASTENERS ONLY REQUIRED WHERE INDICATED ON SECTIONS AND DETAILS. WHERE INDICATED, FASTENERS SHALL BE SIMPSON SDS 1/4" DIAMETER SCREWS x 4-1/2" LONG AT 2x SILLS AND 6" LONG @ 3x SILLS.
 F. SHEAR TRANSFER CLIPS ARE ONLY REQUIRED WHERE INDICATED ON SECTIONS AND DETAILS. WHERE INDICATED, CLIPS SHALL BE SIMPSON LTPA WITH 0.131x 1/2" NAILS (INSTALLED WITH LONG DIMENSION HORIZONTAL) OR A35 CLIPS.

B HD ANCHOR AND POST SCHEDULE				
Mk	HOLDOWN	ROD DIAMETER	POST @ SINGLE HD MINIMUM	POST @ DOUBLE HD MINIMUM
2	HDU2	5/8"	(2) 2x	4x
4	HDU4	5/8"	(2) 2x	4x
5	HDU5	5/8"	(2) 2x	4x
8	HDU8	7/8"	4x	6x
11	HDU11	1"	6x	8x
14	HDU14	1"	6x	8x

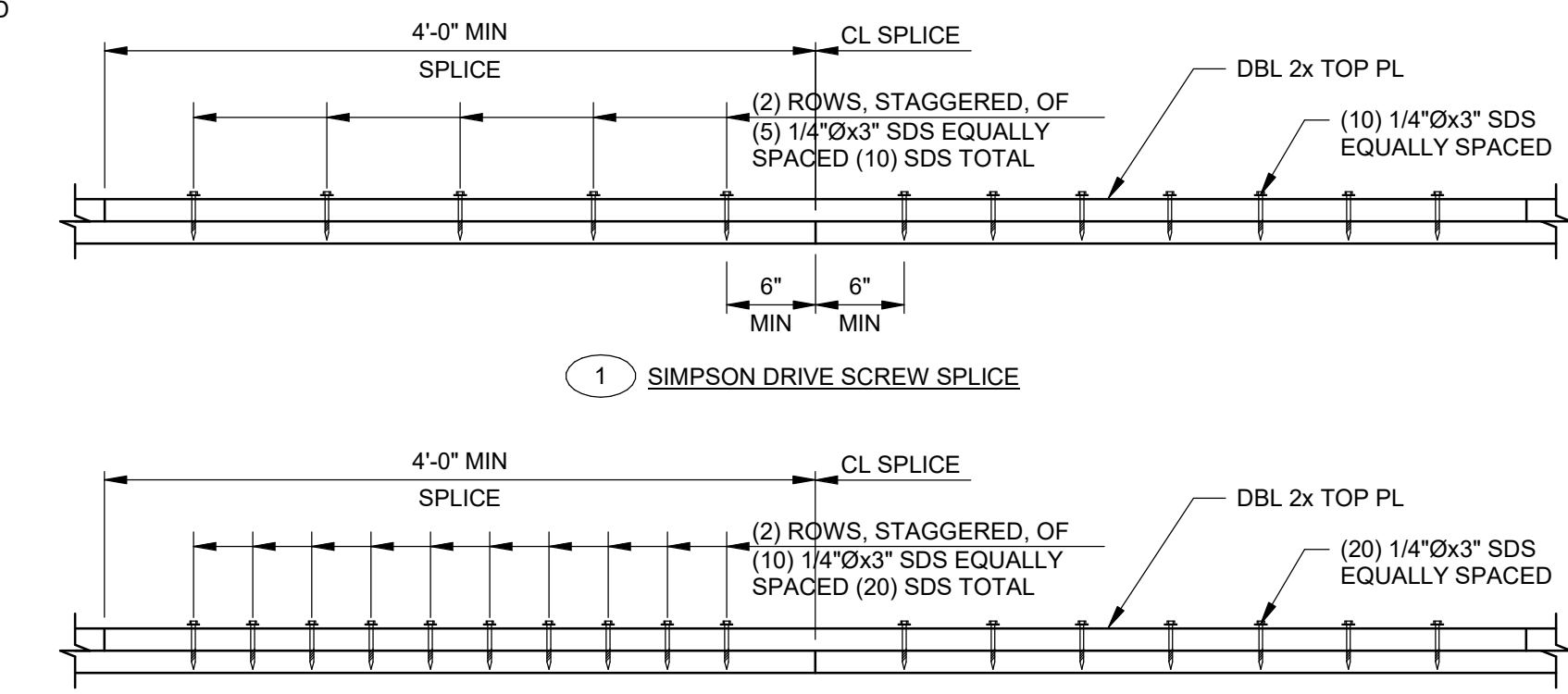
NOTES:
 1. HD ANCHORS DO NOT REPLACE SILL BOLTS AT FOUNDATION.
 2. DOUBLE HOLDDOWN CONDITION, INDICATED WITH (2).



NOTES:
 1. SEE SCHEDULE FOR SHEATHING TYPE AND NAIL SIZE AND SPACING.
 2. PROVIDE EN AT ALL SHEET EDGES, SILL PL, TOP PL, BLOCKING, AND POSTS.
 3. AT ALL SHTG SHOWN ON THE STRUCTURAL DRAWINGS, EN SHALL BE 6"CC MAX.
 4. EN SHALL BE 10d NAILS, UNO.
 5. FN SHALL BE @ 12"CC NAIL SIZE TO MATCH EN.
 6. SEE SHEAR WALL SCHEDULE FOR INFORMATION NOT NOTED.
 7. EDGE NAILING INTO ALL PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL MAY BE USED AS AN OPTION.
 8. SHEAR WALL LENGTH ON PLAN INDICATES MINIMUM, CONTINUOUS REQUIRED LENGTH. ACTUAL SHEAR WALL LENGTH SHALL EXTEND TO WALL ENDS, CORNERS, OR OPENINGS PER ARCH DWGS UNO.
 9. COORDINATE SIDE OF WALL TO RECEIVE SHEATHING WITH ARCH DWGS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO COMMENCING ANY WORK.
 10. MAX ALLOWABLE OPENING IN SHEATHING = 6"x6", MIN SPACING BTWN OPENINGS = 48". OPENINGS SHALL NOT CREATE NOTCHES IN WALL STUDS. OPENINGS LARGER THAN 6"x6" ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED ON PLAN.



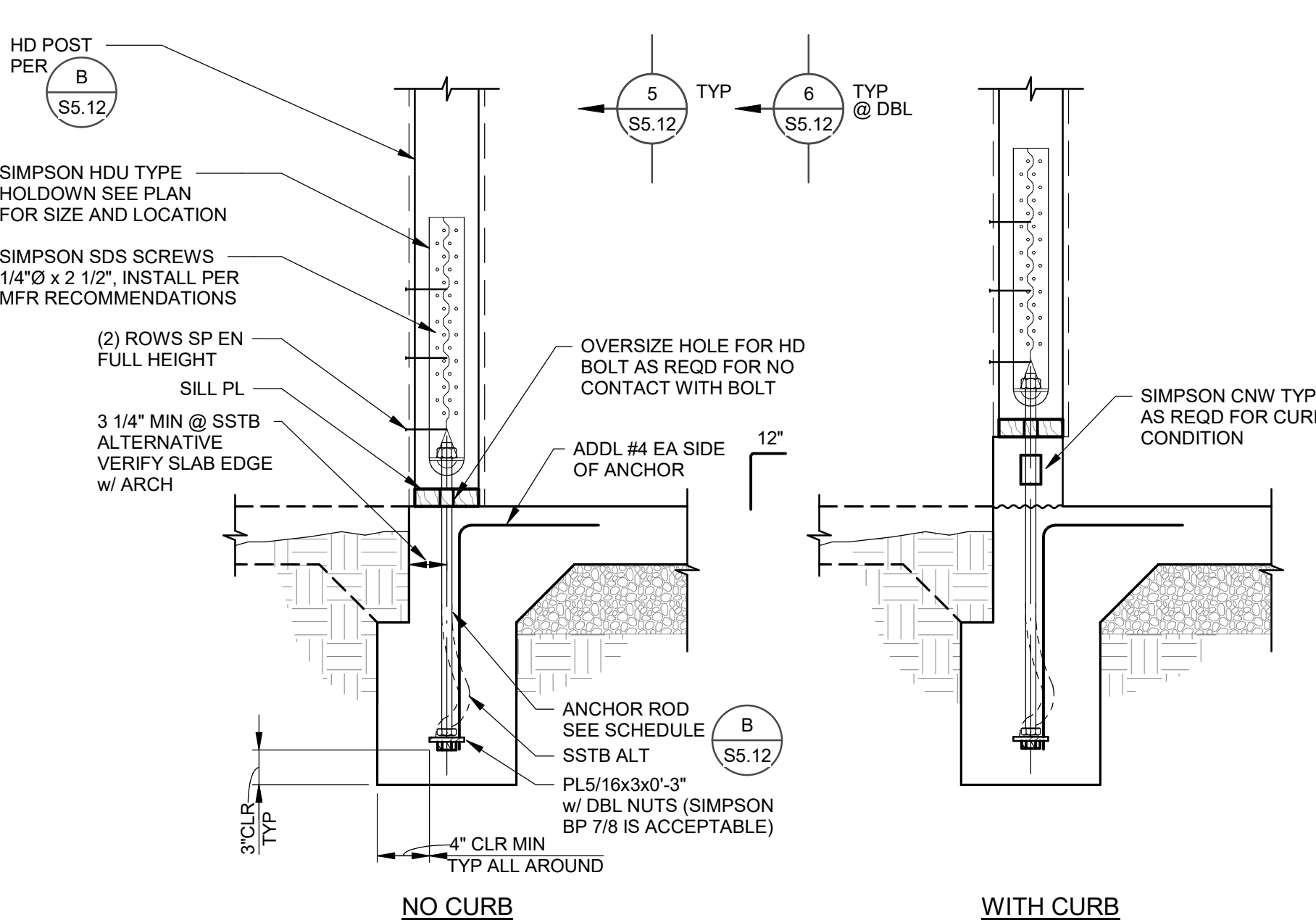
DETAIL 1 NO SCALE
SHEAR WALL NAILING
 1/5S.12



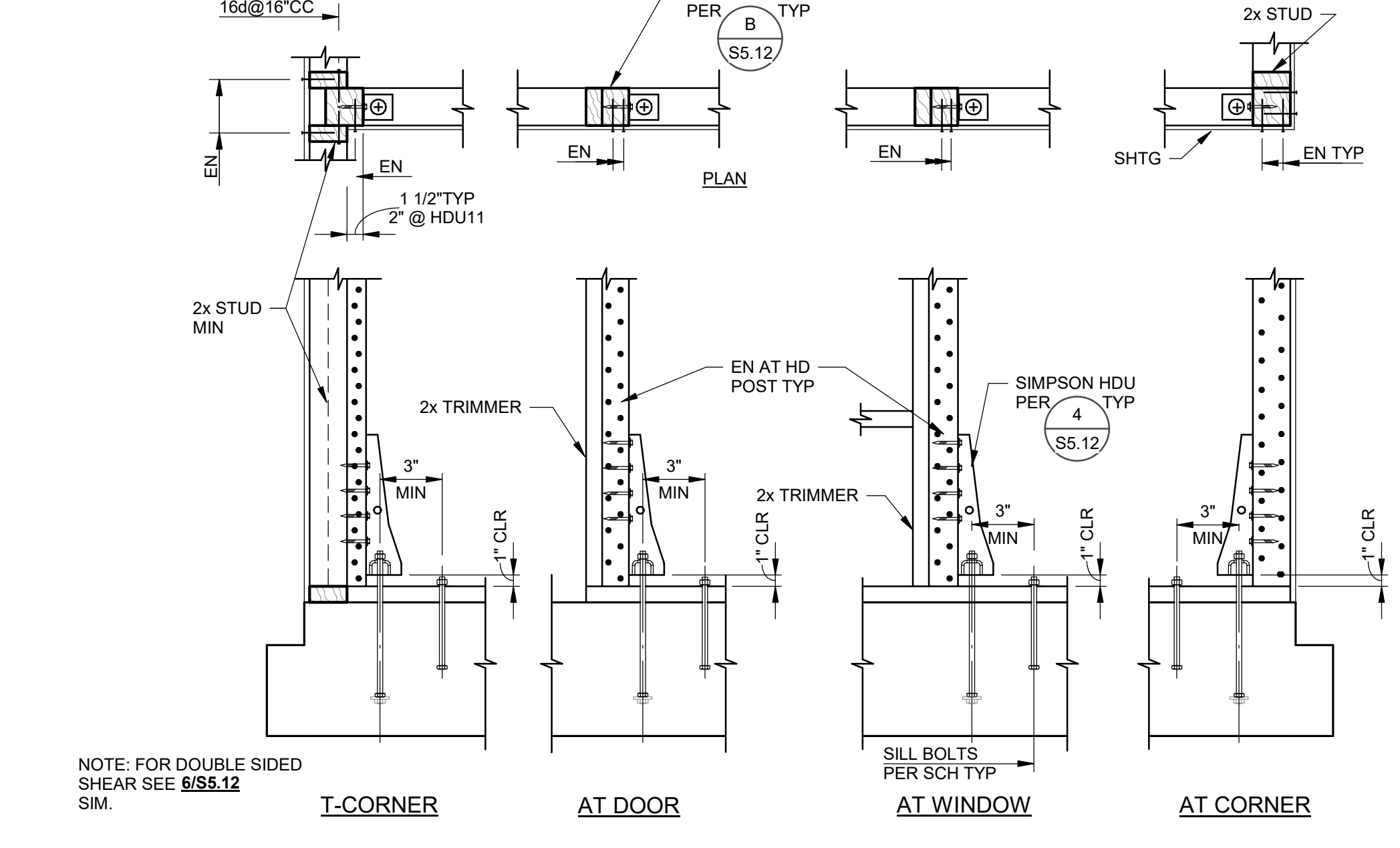
DETAIL 2 NO SCALE
OPENING IN WALL SHEATHING
 1/5S.12



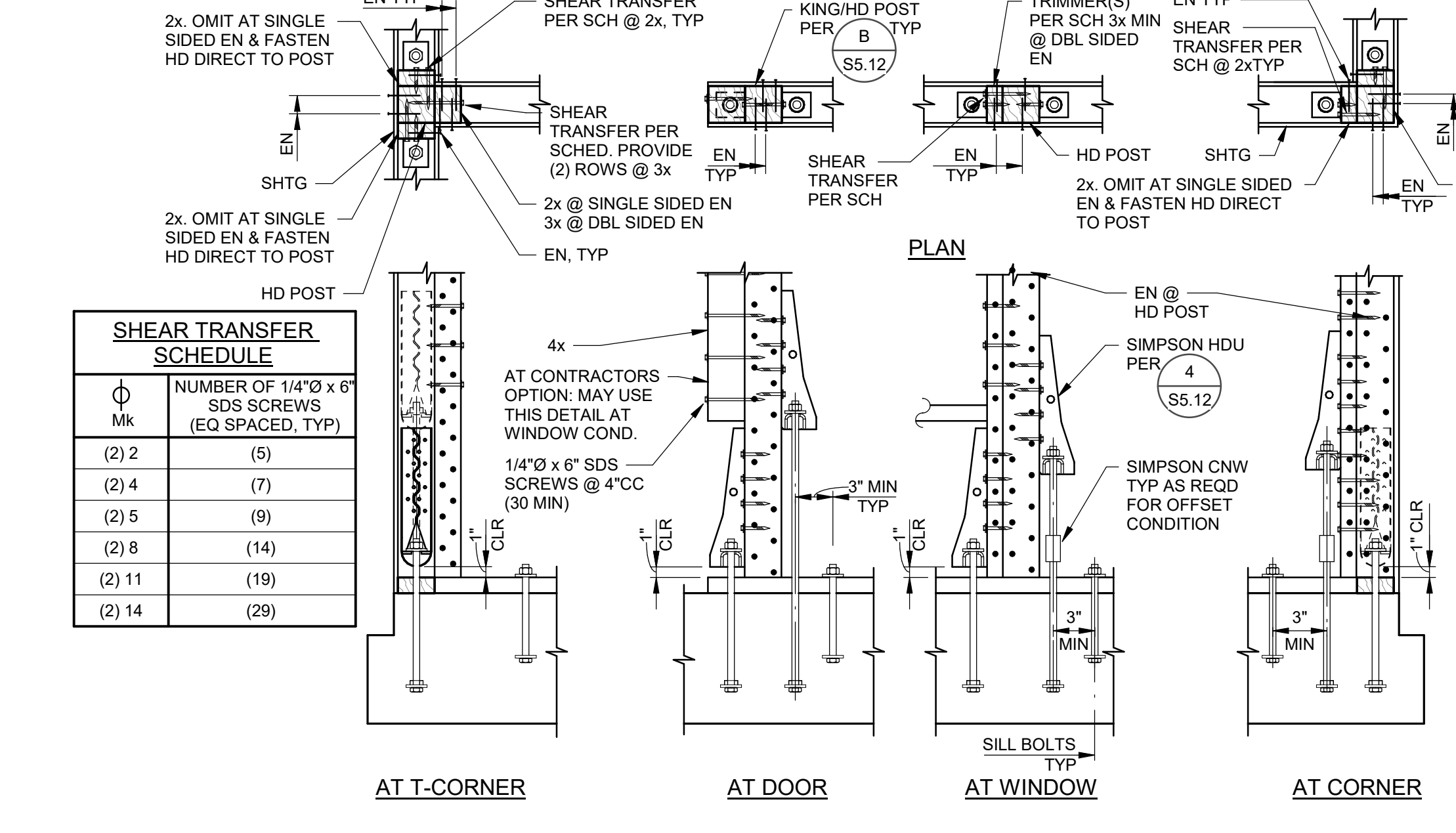
DETAIL 3 NO SCALE
TOP PLATE SDS SPLICE
 1/5S.12



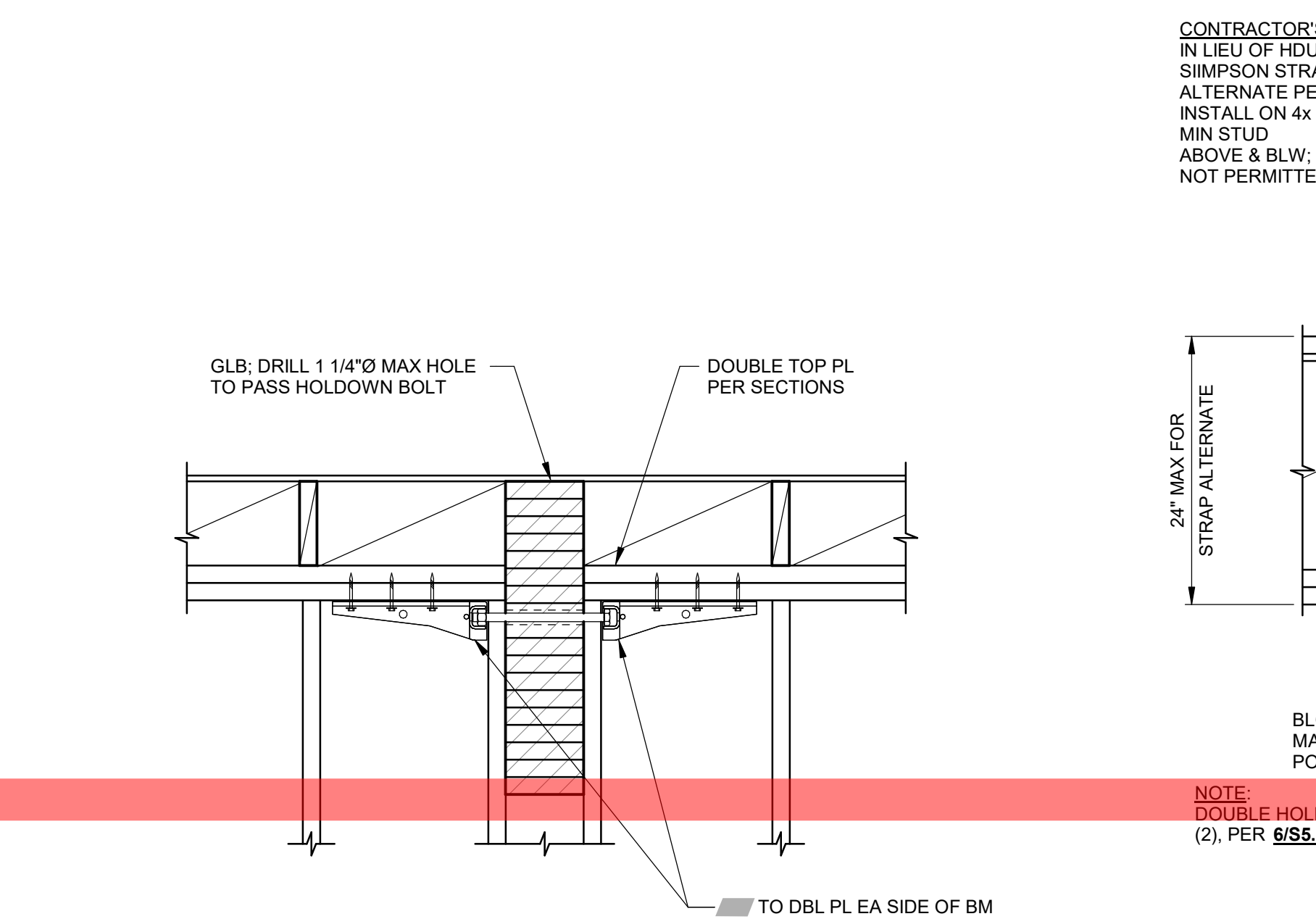
DETAIL 4 NO SCALE
HOLDDOWN AT FOUNDATION
 1/5S.12



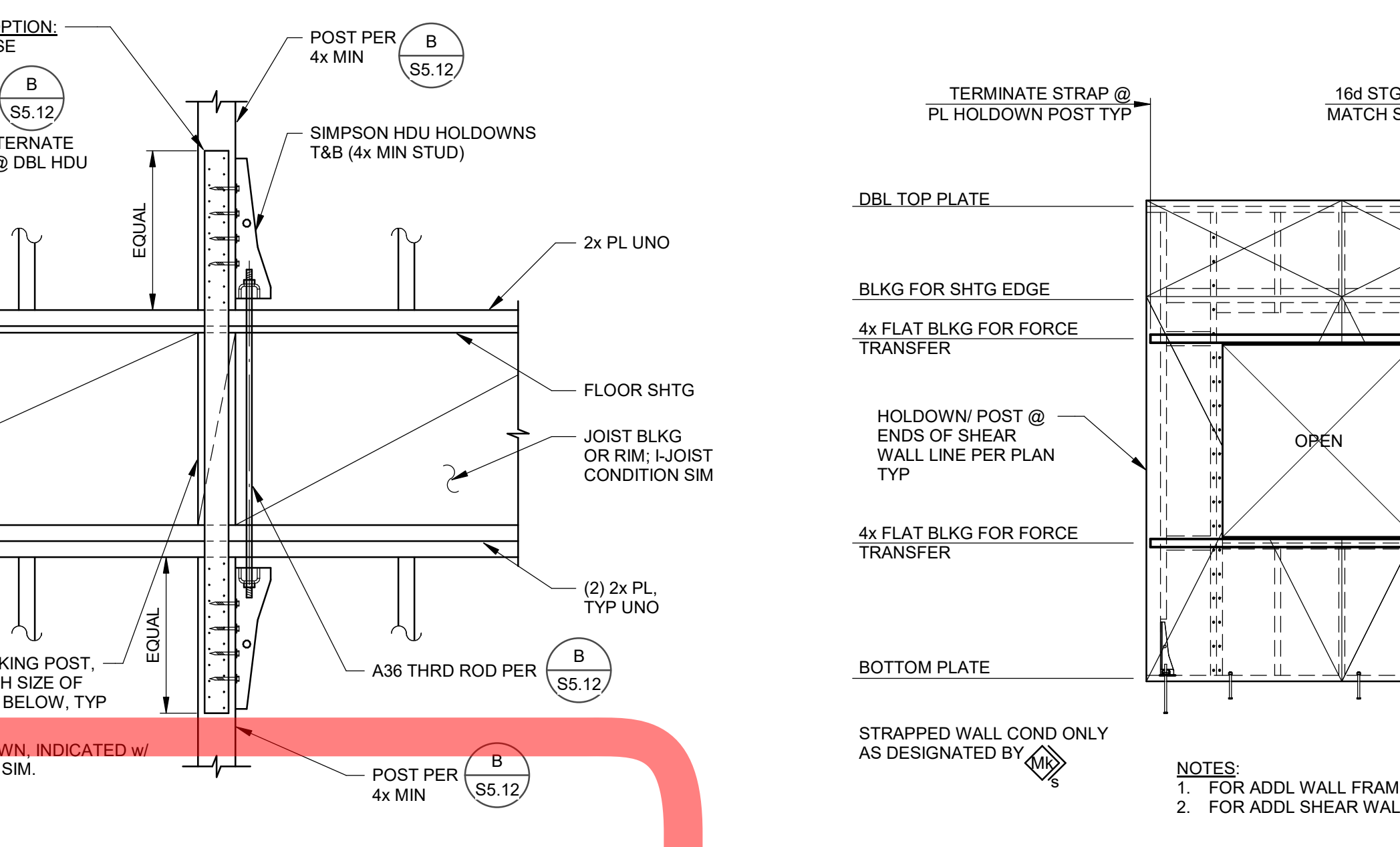
DETAIL 5 NO SCALE
HOLDDOWN PLACEMENT AT FOUNDATION
 1/5S.12



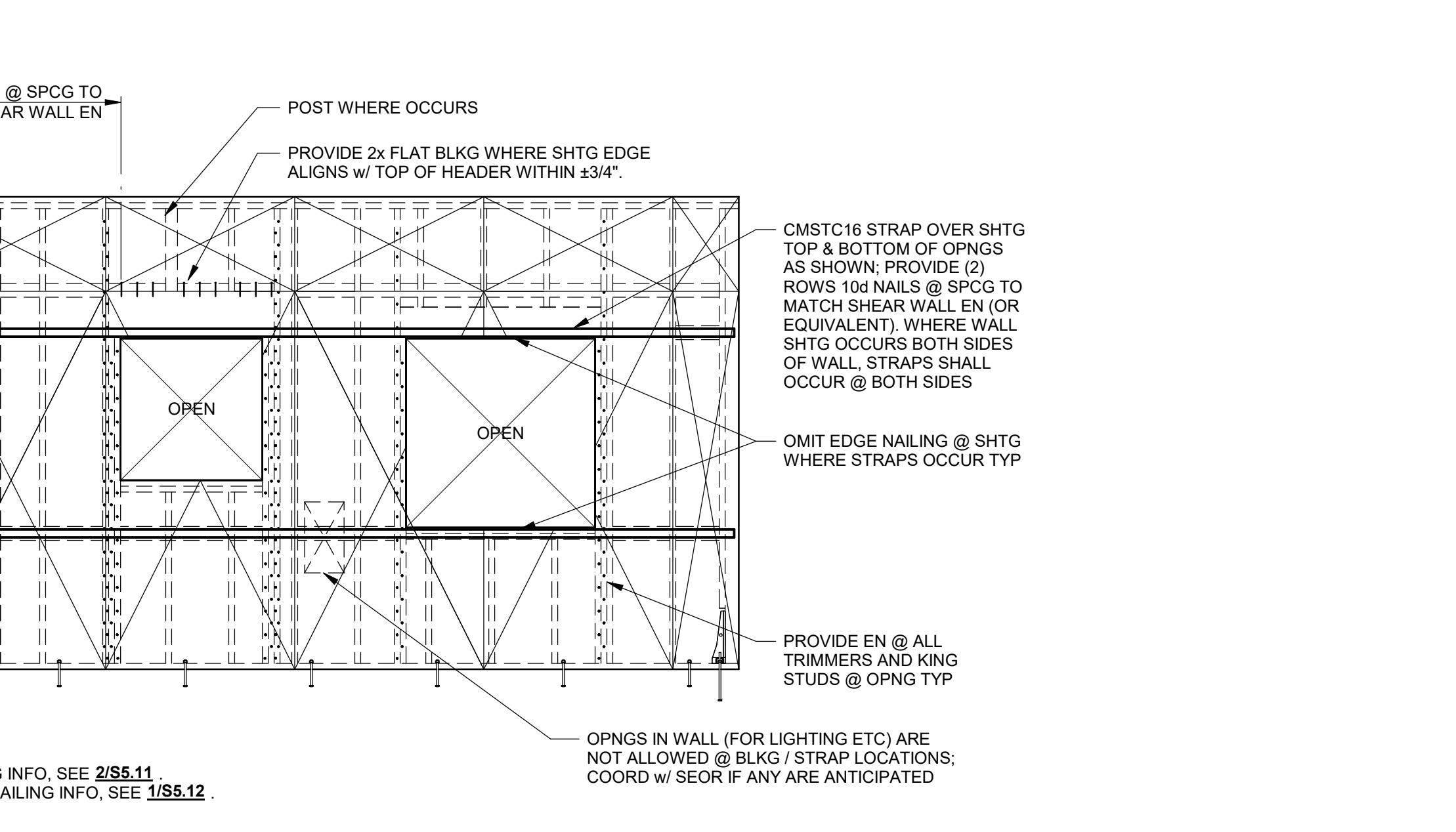
DETAIL 6 NO SCALE
DOUBLE HOLDDOWN PLACEMENT AT FDN
 1/5S.12



DETAIL 7 NO SCALE
TOP PLATE HOLDDOWN AT BEAM
 1/5S.12



DETAIL 8 NO SCALE
HOLDDOWN AT FLOOR
 1/5S.12



DETAIL 9 NO SCALE
STRAPPED SHEAR WALL FRAMING
 1/5S.12

PROJECT NO.: 7/5/2024 1:26:10 PM

DATE	BY	DESCRIPTION

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KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

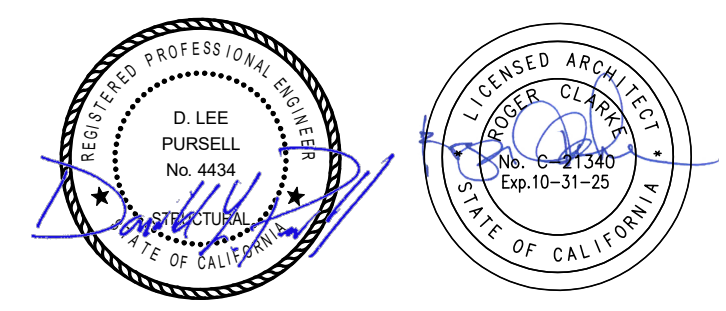
RUHNAU CLARKE ARCHITECTS

600 Q STREET, SUITE 200
 SACRAMENTO, CA 95811
 916.443.0303

KITCHEN UPGRADES AT JOYCE E.S.

TYPICAL DETAILS

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE



AGENCY APPROVAL
100 No.

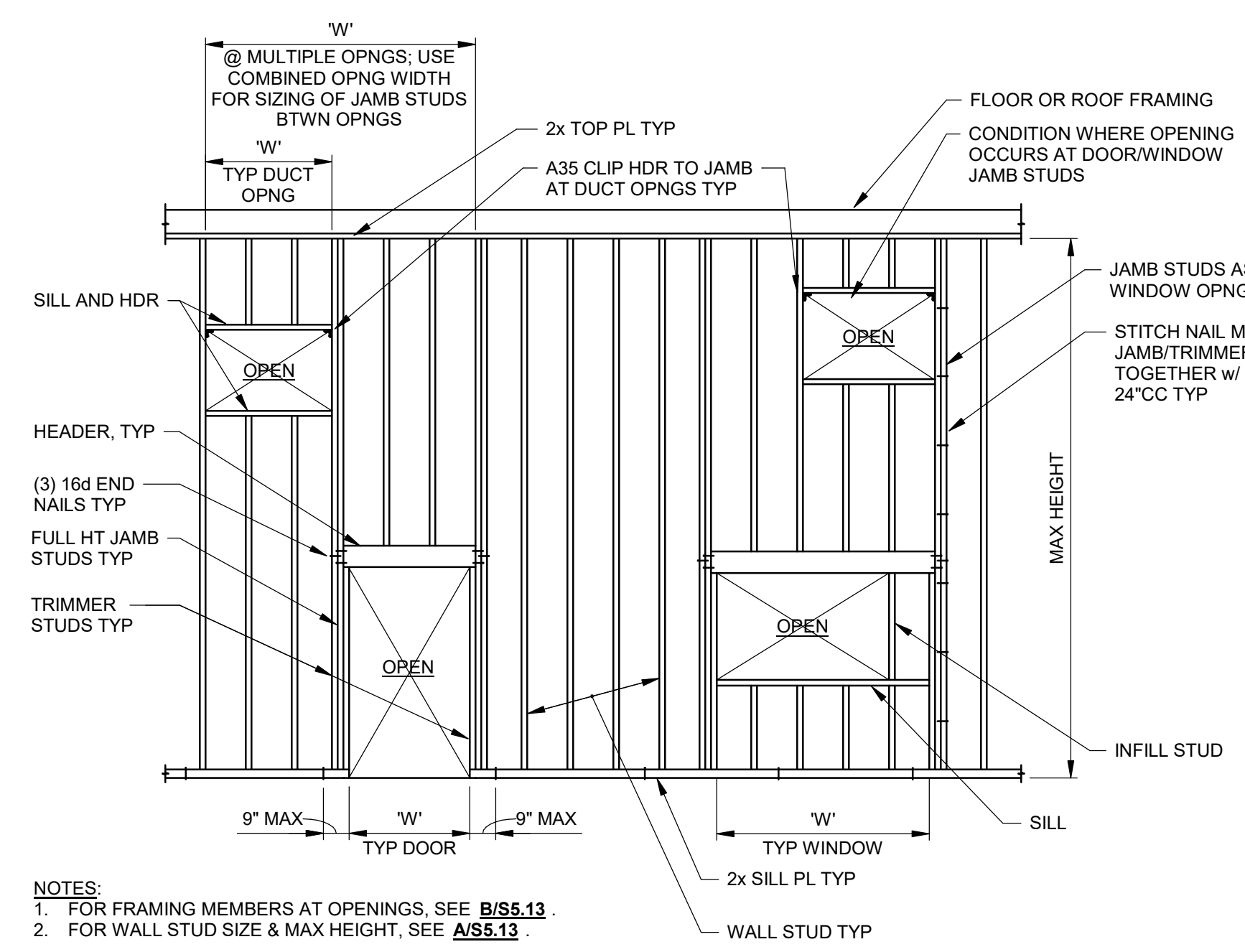
A NON-BEARING INTERIOR STUD MAX HEIGHT SCHEDULE

STUD SIZE	SPACING		
	@ 12"CC	@ 16"CC	@ 24"CC
2x4	15'-6"	14'-0"	12'-4"
2x6	22'-0"	20'-0"	18'-6"

NOTE:
ALL STUDS SHALL BE DF #2 OR BETTER.

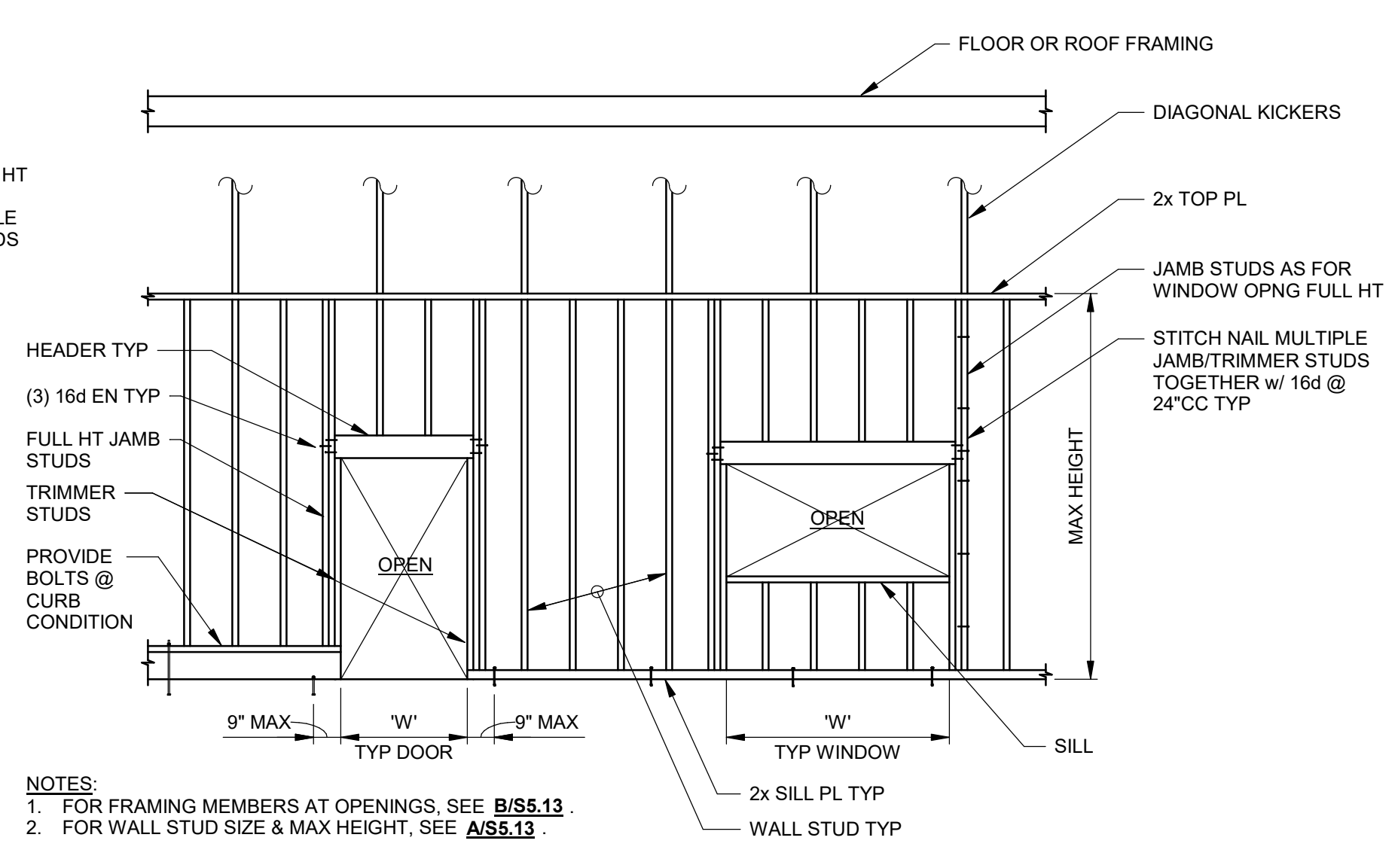
B NON-BEARING INTERIOR HEADER AND JAMB FRAMING SCHEDULE

OPENING TYPE	W' WIDTH	HEADER SIZE	SILL SIZE	JAMB STUDS	TRIMMER STUDS
1	1'-4" TO 4'-8"	STUD WIDTH x 6" D	2x FLAT	2x	2x
2	4'-9" TO 9'-10"	STUD WIDTH x 6" D	2x FLAT	2x	2x
3	9'-11" TO 14'-4"	STUD WIDTH x 10" D	2x FLAT	(2) 2x	(2) 2x
4	14'-5" TO 18'-0"	STUD WIDTH x 12" D	(3) 2x FLAT	(3) 2x	(2) 2x



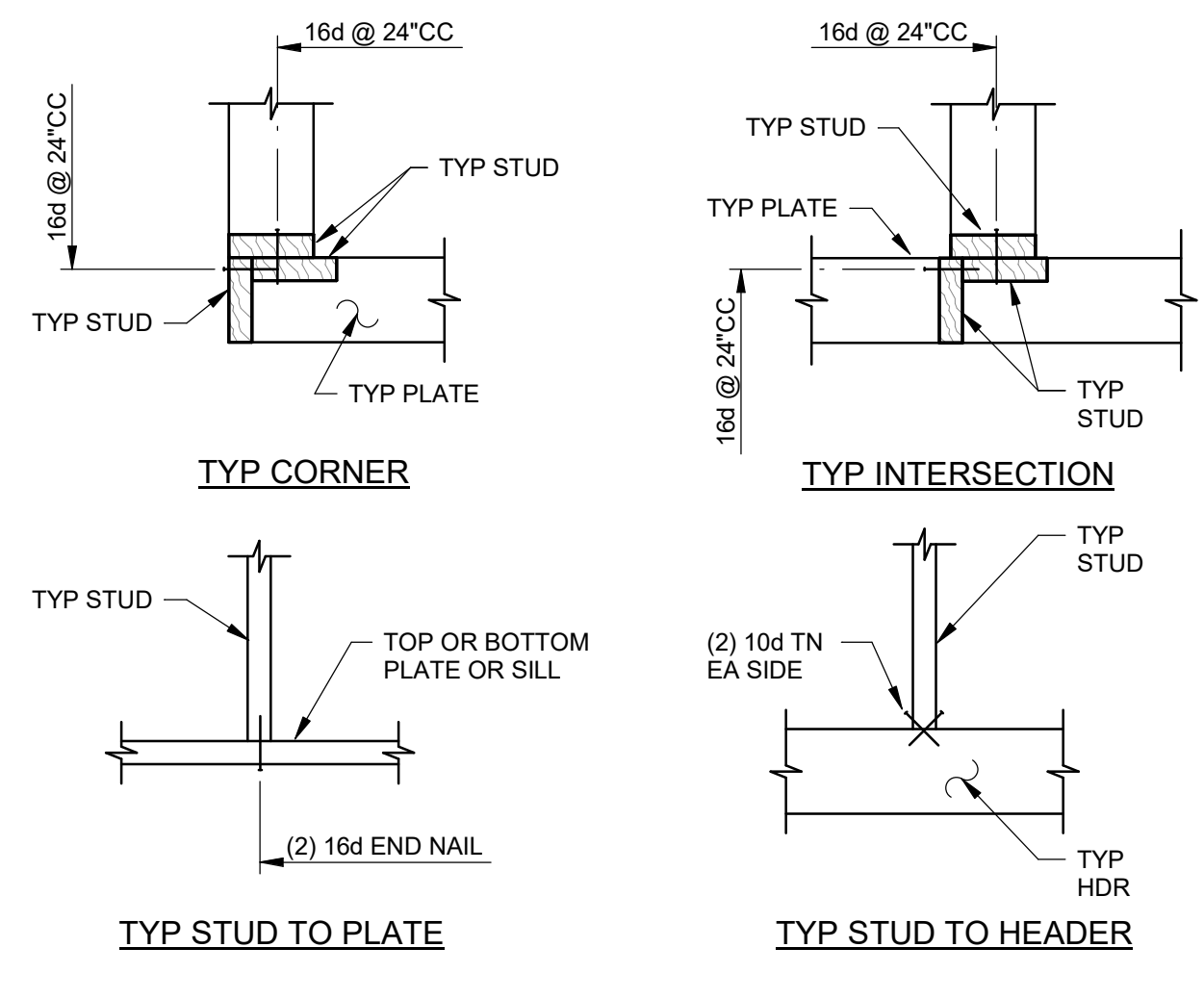
NOTES:
1. FOR FRAMING MEMBERS AT OPENINGS, SEE **B/S5.13**
2. FOR WALL STUD SIZE & MAX HEIGHT, SEE **A/S5.13**

DETAIL 1
FULL HT INTERIOR WOOD STUD WALL ELEVATION
S5.13 NO SCALE

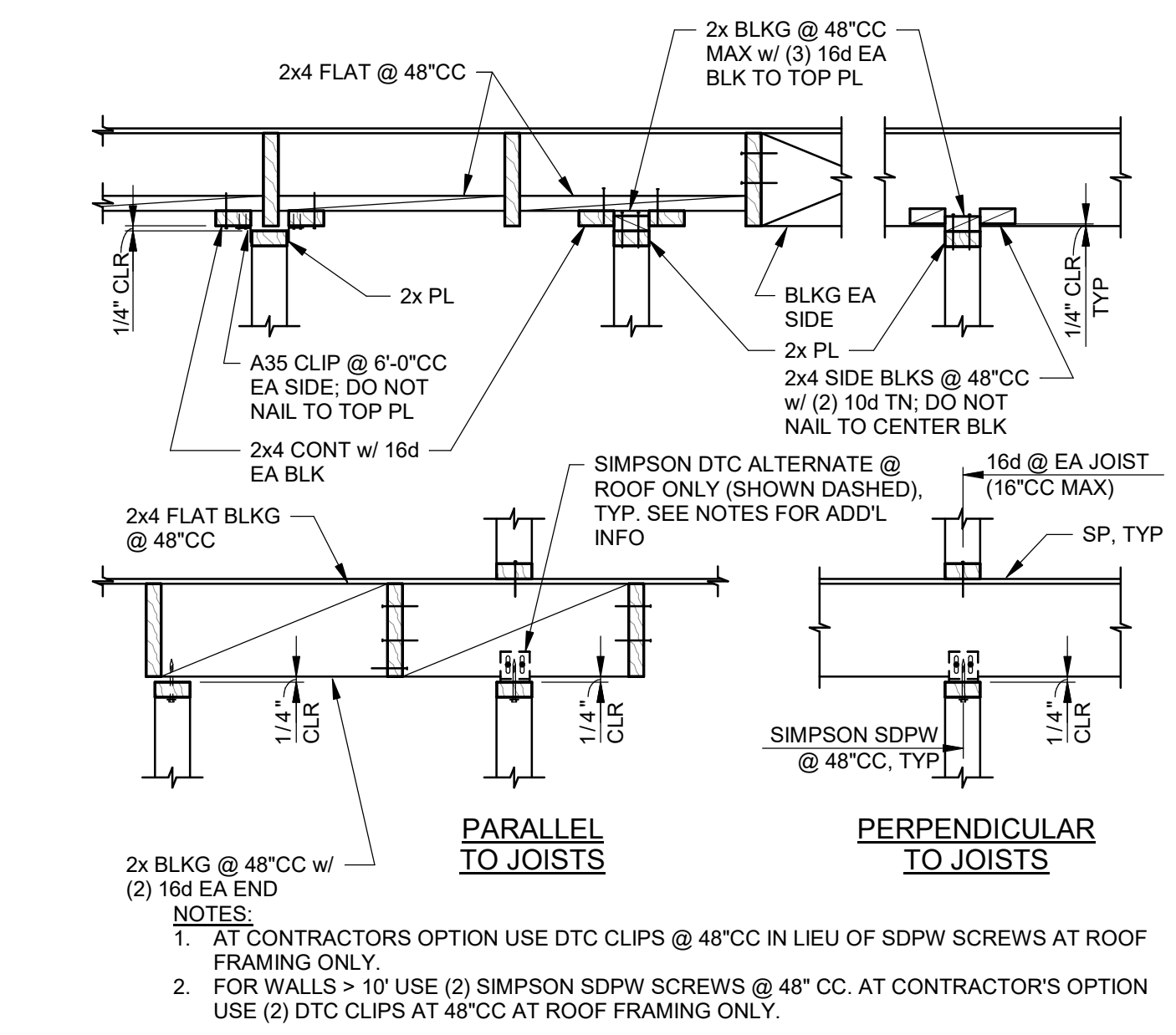


NOTES:
1. FOR FRAMING MEMBERS AT OPENINGS, SEE **B/S5.13**
2. FOR WALL STUD SIZE & MAX HEIGHT, SEE **A/S5.13**

DETAIL 2
PARTIAL HEIGHT INTERIOR WALL FRAMING
S5.13 NO SCALE



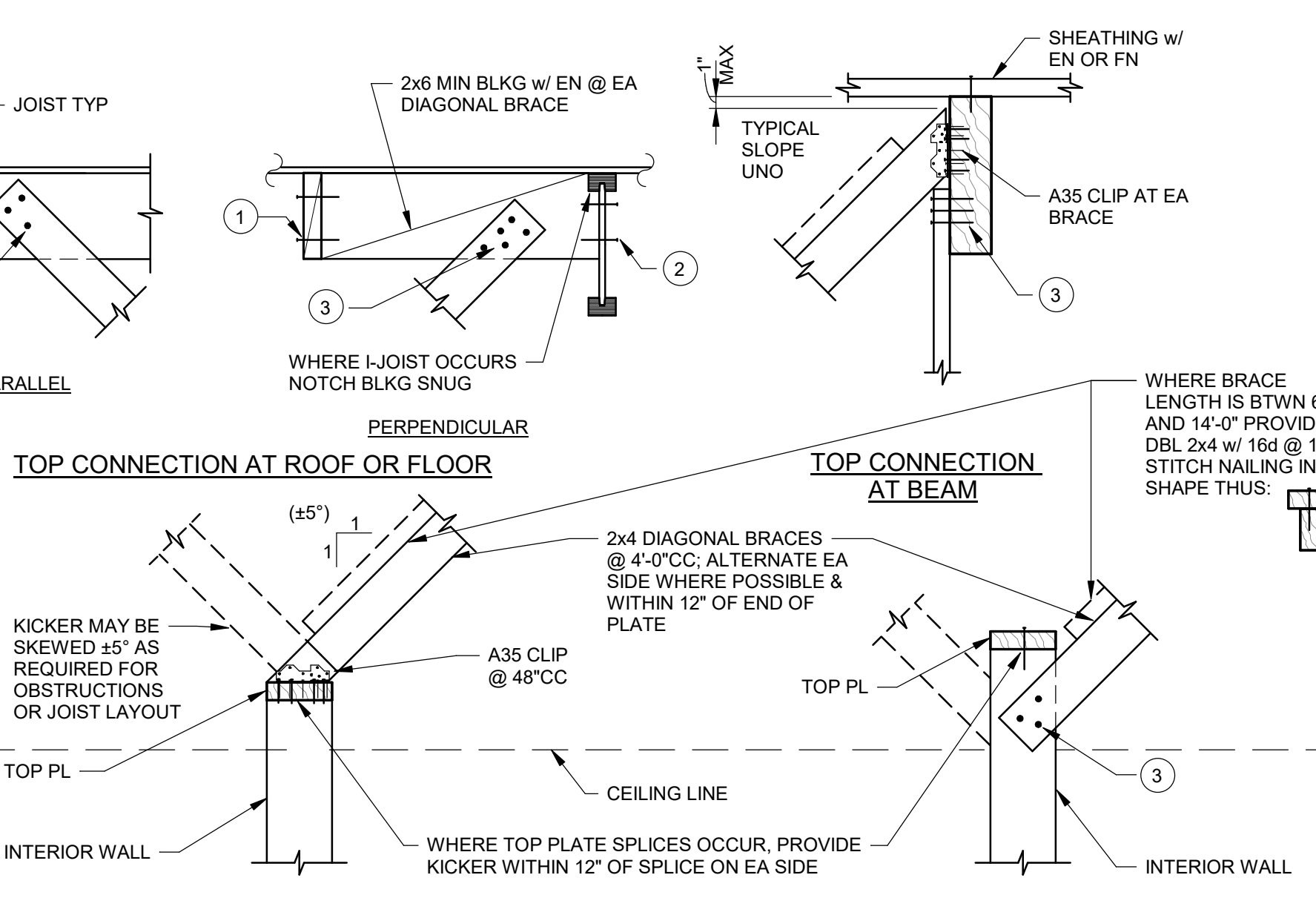
DETAIL 3
NON-STRUCTURAL FRAMING CONDITIONS
S5.13 NO SCALE



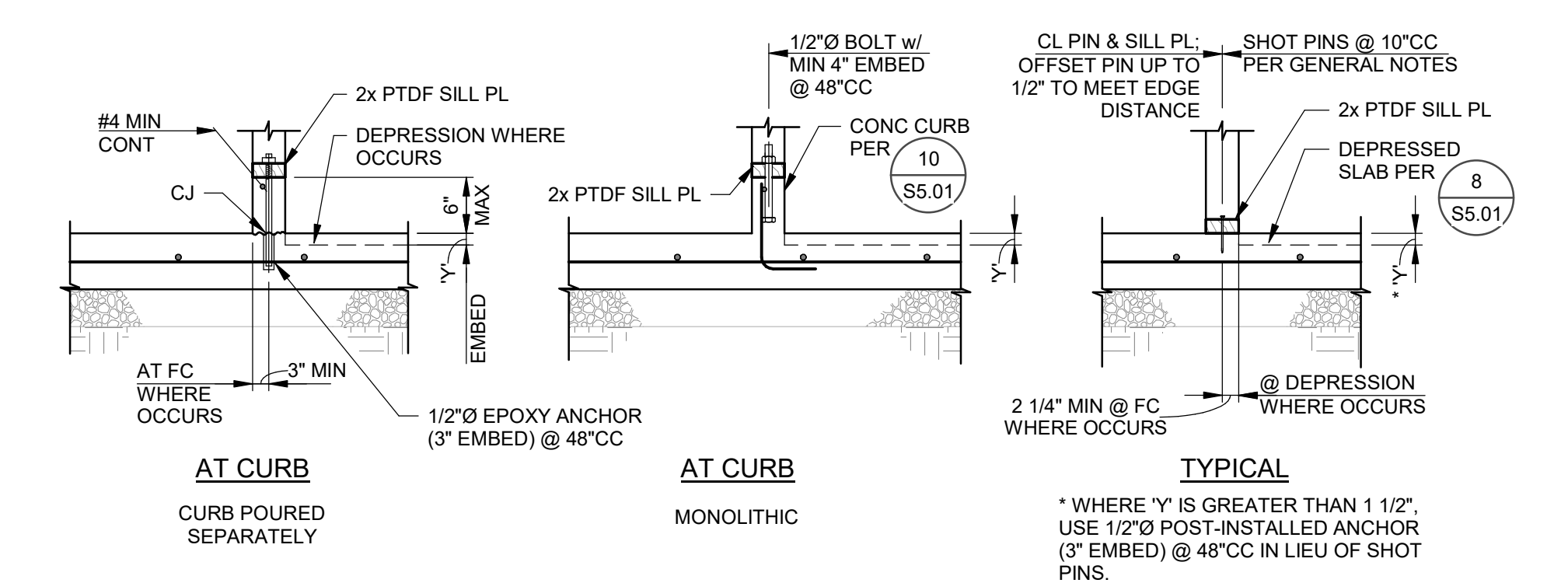
DETAIL 4
INTERIOR NON-BEARING PARTITION AT TOP PLATE
S5.13 NO SCALE

FASTENER SCHEDULE

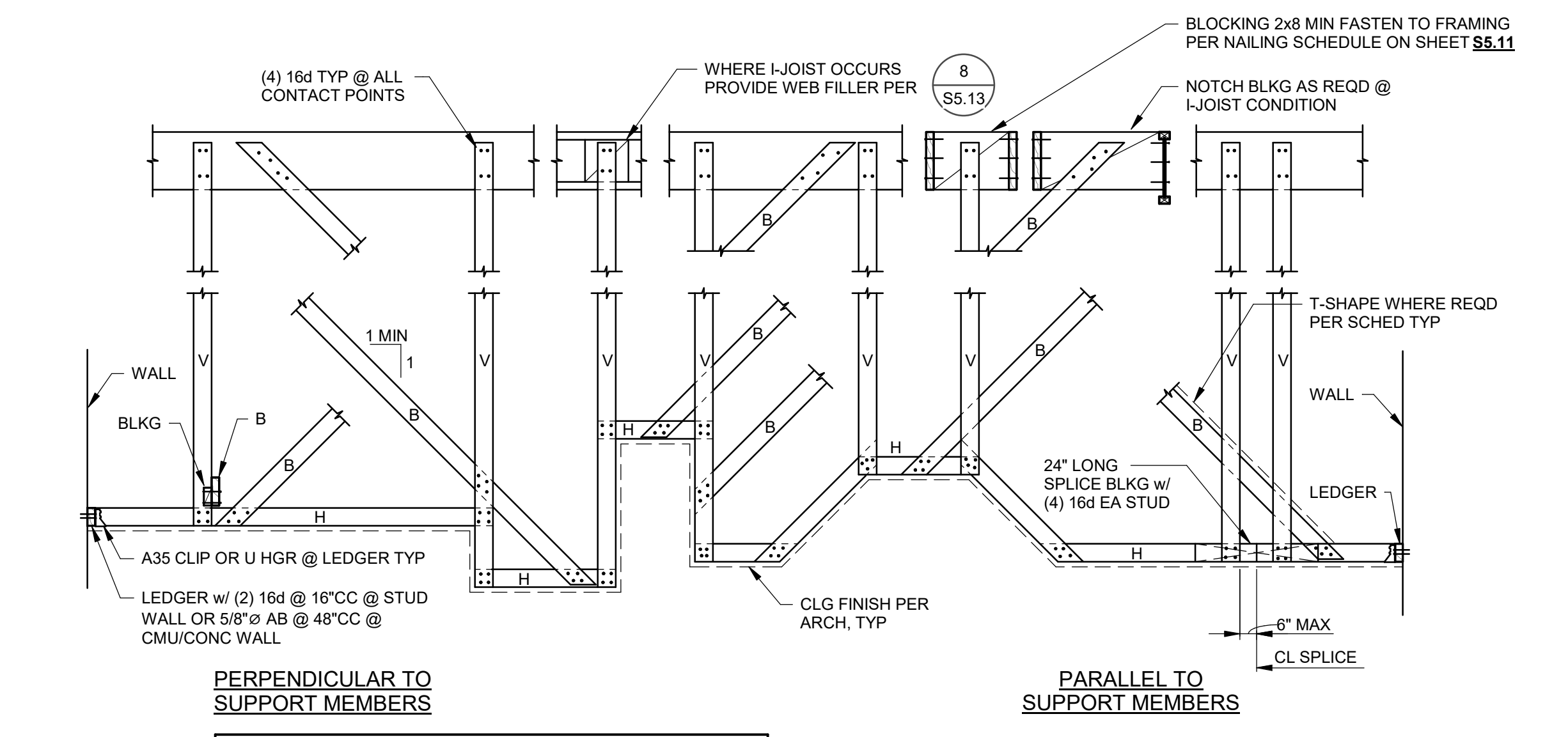
MAX HEIGHT OF PARTITION WALL	1 16d END NAILS	2 10d END NAILS	3 #10 WOOD SCREWS
10'-0"	2	3	3
14'-0"	3	4	4
18'-6"	4	6	5



DETAIL 5
INTERIOR PARTIAL HEIGHT WALL BRACING
S5.13 NO SCALE



DETAIL 6
INTERIOR NON-BEARING PARTITION AT SILL PLATE
S5.13 NO SCALE

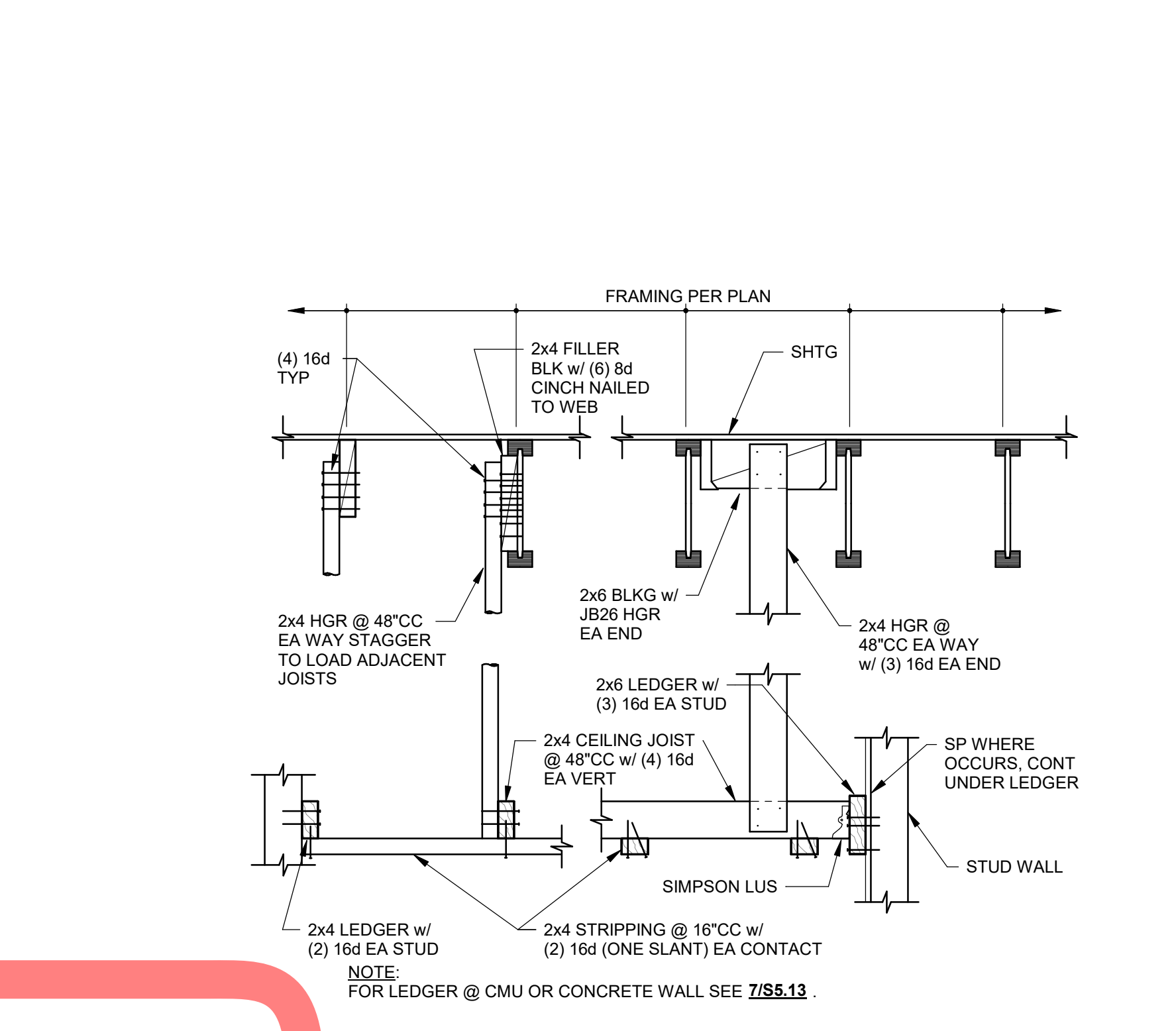


SOFFIT FRAMING SCHEDULE

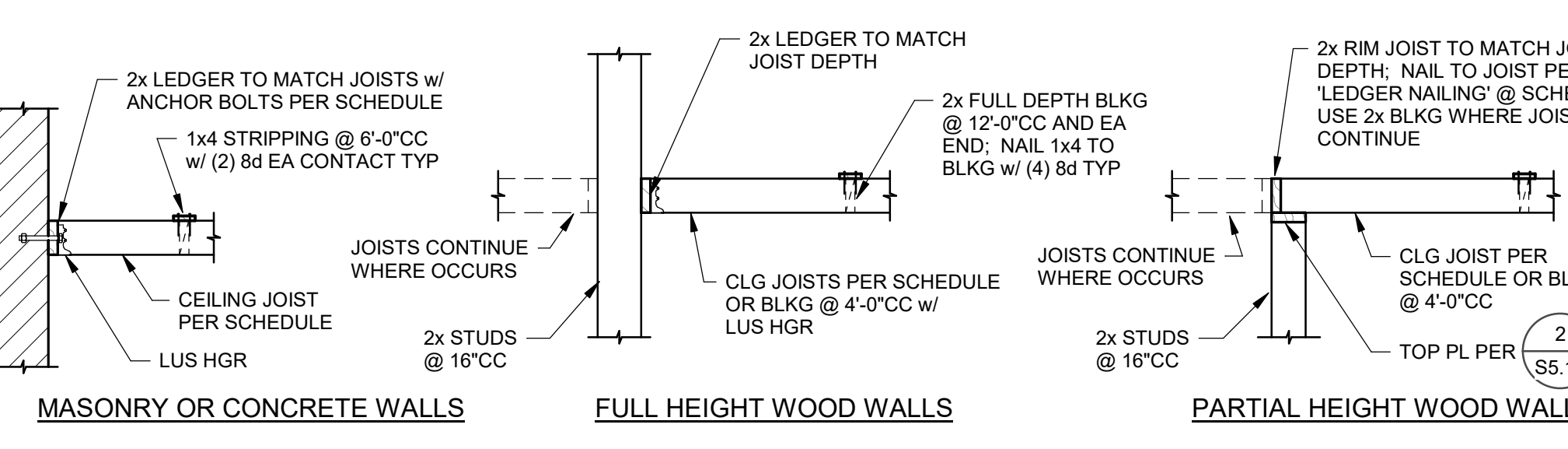
	H	V	B
MAX MEMBER SPACING	2'-0"	2'-0"	8'-0"
MAX ALLOW AREA SUPP	16 FT ²	18 FT ²	64 FT ²
MAX LENGTH OF MEMBER	8'-0"	8'-0"	8'-1" TO 14'-0" DBL BRACE**

NOTES:
1. BRACE REQUIRED IN ALL VERTICAL OFFSETS. ALTERNATE DIRECTION OF BRACE WHERE POSSIBLE.
2. SCHEDULE BASED ON:
- 2x4 DF #2 MEMBERS UNO
- 13.0 PSF DL = 10 PSF LL
- MAX DL DEFLECTION = L/360
- * 2x6 DF #2
- ** REQUIRES DBL 2x4 W/ 16d @ 12"CC STITCH NAILING IN 'T' SHAPE THUS:

FOR REFERENCE ONLY



DETAIL 8
SUSPENDED FRAMING
S5.13 NO SCALE



CEILING JOIST SCHEDULE

MAXIMUM SPAN	SIZE & SPACING	LEDGER NAILING	LEDGER BOLTING
UP TO 7'-6"	2x4 @ 16"CC	(2) 16d / CONTACT	5/8" @ 4'-0"CC
7'-7" TO 14'-0"	2x6 @ 16"CC	(2) 16d / CONTACT	5/8" @ 4'-0"CC
14'-1" TO 18'-0"	2x8 @ 16"CC	(3) 16d / CONTACT	5/8" @ 2'-8"CC

DETAIL 9
CEILING FRAMING
S5.13 NO SCALE

PROJECT No.:
7/5/2024 1:26:11 PM

DATE	BY	REVISION

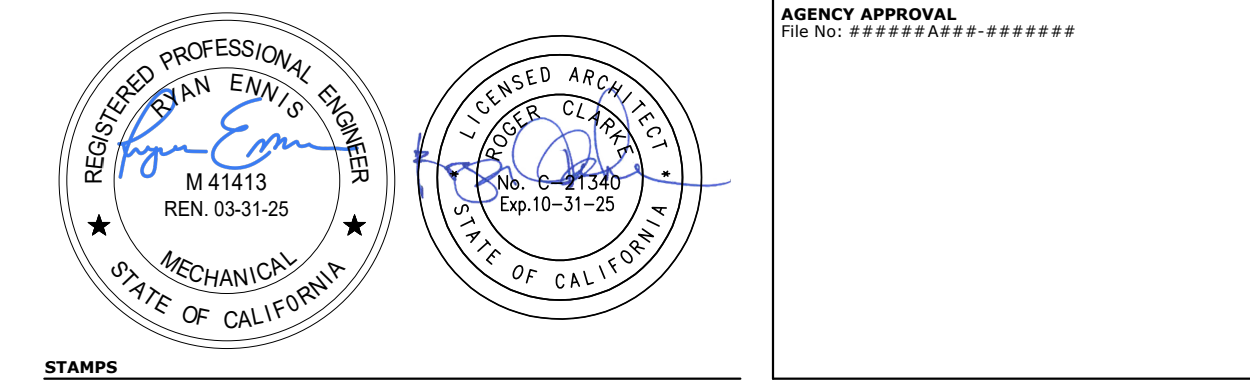
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KITCHEN UPGRADES AT JOYCE E.S.

INTERIOR TYPICAL NON-STRUCTURAL DETAILS

S5.13

KITCHEN UPGRADES AT JOYCE E.S.



**RUHNAU
CLARKE
ARCHITECTS**

AGENCY APPROVAL
FIG No: *****

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL, IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.8.5, 13.8.6, 13.8.7, 13.8.8, AND 2022 CBC, SECTIONS 1617A.1.24 THROUGH 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

<input type="checkbox"/> MP	<input type="checkbox"/> MD	<input type="checkbox"/> PP	<input type="checkbox"/> E	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
<input type="checkbox"/> MP	<input type="checkbox"/> MD	<input type="checkbox"/> PP	<input type="checkbox"/> E	OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM) #0043-13.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
	GRILLE DESIGNATION NECK SIZE CFM	
	FIRE DAMPER WHERE REQ'D	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
	FIRE DAMPER W/ ACCESS	FD
	FIRE SMOKE DAMPER W/ ACCESS	FSD
	CEILING RADIATION DAMPER	CRD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	MOTORIZED DAMPER	
	THERMOSTAT @ +48° AFF (MAX.) (TOP OF BOX)	T-STAT
	SENSOR @ +48° AFF	
	STATIC PRESSURE SENSOR @ +48° AFF	
	CARBON MONOXIDE SENSOR @ +48° AFF	
	CARBON DIOXIDE SENSOR @ +48° AFF	
	TIMECLOCK @ +48° AFF	
	TEMPERATURE CONTROL PANEL	TCP
	DUCT SMOKE DETECTOR	SD
	PIPE RISER / DROP	(R) / (D)
	FROM ABOVE	(FA)
	FROM BELOW	(FB)
	TO ABOVE	(TA)
	TO BELOW	(TB)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UN
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	UNDERCUT DOOR 3/4"	UCD
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC
	REFRIGERANT LIQUID	RL
	REFRIGERANT SUCTION	RS
	DEMOLISHED/DEMO	

MECHANICAL SPECIFICATIONS

- THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
 - 2022 CALIFORNIA BUILDING CODE
 - 2022 CALIFORNIA MECHANICAL CODE
 - 2022 CALIFORNIA PLUMBING CODE
 - 2022 CALIFORNIA ELECTRICAL CODE
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS
 - 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24
 - NATIONAL FIRE PROTECTION ASSOCIATION
 - CALIFORNIA STATE FIRE MARSHAL
- ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.
- CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.
- THE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.
- ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
- PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL CONTROL SYSTEM COMPONENTS, FIRE/SMOKE DAMPERS, SMOKE DETECTORS, ETC., OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
- CHECK ALL PIPE AND DUCTWORK FOR LEAKS AND EXCESSIVE AIR LOSS AND NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
- GALVANIZED STEEL DUCTS SHALL BE ASTM A 653/A 653M GALVANIZED STEEL SHEET, FORMING STEEL (FS) DESIGNATION, WITH G90/Z275 ZINC COATING.
- FABRICATE, SUPPORT AND SEAL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR 4" STATIC PRESSURE UPSTREAM OF TERMINAL UNITS (VAV, CAV BOXES) AND 2" STATIC PRESSURE DOWNSTREAM OF TERMINAL UNITS (VAV, CAV BOXES).
- CONSTRUCT DUCTWORK T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE RECTANGULAR ELBOWS MUST BE USED. PROVIDE AIR FOIL TURNING VANES. WHERE ACOUSTICAL LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
- COMBINATION FIRE AND SMOKE DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A, UL 555, UL 555S, AND AS INDICATED. PROVIDE FACTORY SLEEVE AND COLLAR FOR EACH DAMPER. ALL INSULATION AND LINER PRODUCTS SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, OR UL 723.

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M-0.1	MECHANICAL LEGEND & NOTES
M-0.2	MECHANICAL SCHEDULES
MS-1.1	MECHANICAL ENLARGED DEMO & NEW SITE PLANS
M-1.0	MECHANICAL DEMO & NEW FLOOR PLANS
M-2.0	MECHANICAL DEMO & NEW ROOF PLANS
M-3.0	MECHANICAL SECTIONS
M-4.0	MECHANICAL ISOMETRICS
M-5.0	MECHANICAL CONTROLS
MD-6.0	MECHANICAL DETAILS
MD-6.1	MECHANICAL DETAILS

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6/27/2024 5:15:44 PM

DELTA #	DATE	ADD	REV	BY	CHKD

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 3751 PALMER WAY, SUITE C, CALISBRAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENSARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

MECHANICAL LEGEND & NOTES

M-0.1

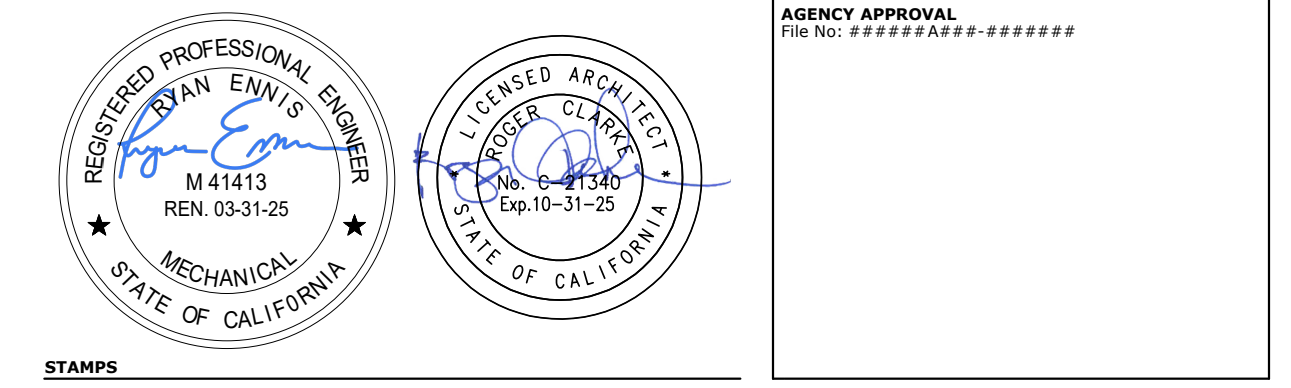
KITCHEN UPGRADES AT JOYCE E.S.

MAU SCHEDULE																										
TYPE	MARK	DUCT CONFIG.	ELECTRICAL					SUPPLY FAN					COOLING (R410A)			HEATING			FILTER TYPE	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES			
			VOLTAGE	PHASE	RLA	MCA	MOP	HP	DRIVE	FAN SPEED (RPM)	CFM	E.S.P. (IN. WG.)	TYPE	LEAVING AIR DBWB (°F)	AIR DBWB (°F)	AMBIENT TEMP (°F)	TYPE	AFUE %						HEATING INPUT	HEATING OUTPUT	AMBIENT TEMP (°F)
MAU	1	HORIZONTAL	208	3	0	10.8	15	1.50	DIRECT	2337	2,315	0.8	DIRECT EVAPORATIVE	75.8/73.0	100/73	105	INDIRECT GAS FURNACE	81	200 Btu/h	162 Btu/h	30	MERV-13	1,400 lb	GREENHECK	IGX-P112-H12MF	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH. PROVIDE FACTORY ROOF CURB, FACTORY SUPPLY FAN VFD, FACTORY STAINLESS STEEL HEAT EXCHANGER WITH 1:1 ELECTRONIC CONTROL, DUCT SMOKE DETECTOR TO BE PROVIDED BY FIRE ALARM CONTRACTOR AND MOUNTED BY MECHANICAL CONTRACTOR. INSTALL PER OAC SECTION 0805. PROVIDE LOUVERED INTAKE WITH ALUMINUM MESH FILTER AND INLET DAMPER, DOUBLE WALL INSULATION FOR ENTIRE UNIT. FACTORY KITCHEN CONTROL PANEL AND EVAPORATIVE COOLER RECIRCULATION PUMP WITH AUTO-DRAIN AND VALVES. INSTALL PER MFG'S REQUIREMENTS. INTERLOCK MAKE-UP AIR UNIT WITH KITCHEN HOOD AND KITCHEN EXHAUST FAN PER FOOD SERVICE DRAWINGS.

EXHAUST FAN SCHEDULE																			
TYPE	MARK	FAN TYPE	MOUNTING	ELECTRICAL					FAN			SONES	CONTROL	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES		
				VOLTAGE	PHASE	FLA	MCA	MOP	HP	DRIVE	FAN RPM							CFM	E.S.P. (IN. WG.)
KEF	1	CENTRIFUGAL	ROOF	208	1	7	9	20	1	DIRECT	1831	2,315	1	12.2	INTERLOCK W/ HOOD	100 lb	GREENHECK	CUE-140-VG	PROVIDE PREWIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION, MOTOR WITH THERMAL OVERLOAD PROTECTION, PREWIRED FAN SPEED CONTROLLER, ROOF CURB, VENTED CURB EXTENSION, HINGED CURB CAP, GREASE TROUGH AND CLEANOUT PORT. FAN TO BE UL-782 LISTED.

OUTSIDE AIR SCHEDULE	
AC UNIT	OSA CFM
(E) AC	100
* OSA TO BE PER TITLE 24 REQUIREMENTS.	

AIR DISTRIBUTION SCHEDULE		
SYMBOL	TYPE	DESCRIPTION
A	CEILING SUPPLY	STEEL MODULAR CORE SQUARE CEILING DIFFUSER WITH ADJUSTABLE DISCHARGE PATTERN. FINISH: COLOR BY ARCHITECT. FRAME: LAY-IN T-BAR. TITUS MCD.
D	CEILING RETURN	STEEL LOUVERED RETURN GRILLE WITH HORIZONTAL BLADES AT 3/4" SPACING AND 90° REFLECTION. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 350RL.
G	CEILING SUPPLY	STEEL MODULAR CORE SQUARE CEILING DIFFUSER WITH ADJUSTABLE DISCHARGE PATTERN. PROVIDE OBD. FINISH: COLOR BY FRAME FLAT SURFACE. TITUS MCD.



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PROJECT No. :X-XX-XX	6/27/2024 5:15:46 PM
DRAWN BY: _____	CHECKED BY: _____
DELTA # _____ DATE _____	<input type="checkbox"/> ADD <input type="checkbox"/> AFO <input type="checkbox"/> CCD <input type="checkbox"/> REV
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DELTA # _____ DATE _____	<input type="checkbox"/> ADD <input type="checkbox"/> AFO <input type="checkbox"/> CCD <input type="checkbox"/> REV

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KITCHEN UPGRADES AT JOYCE E.S.

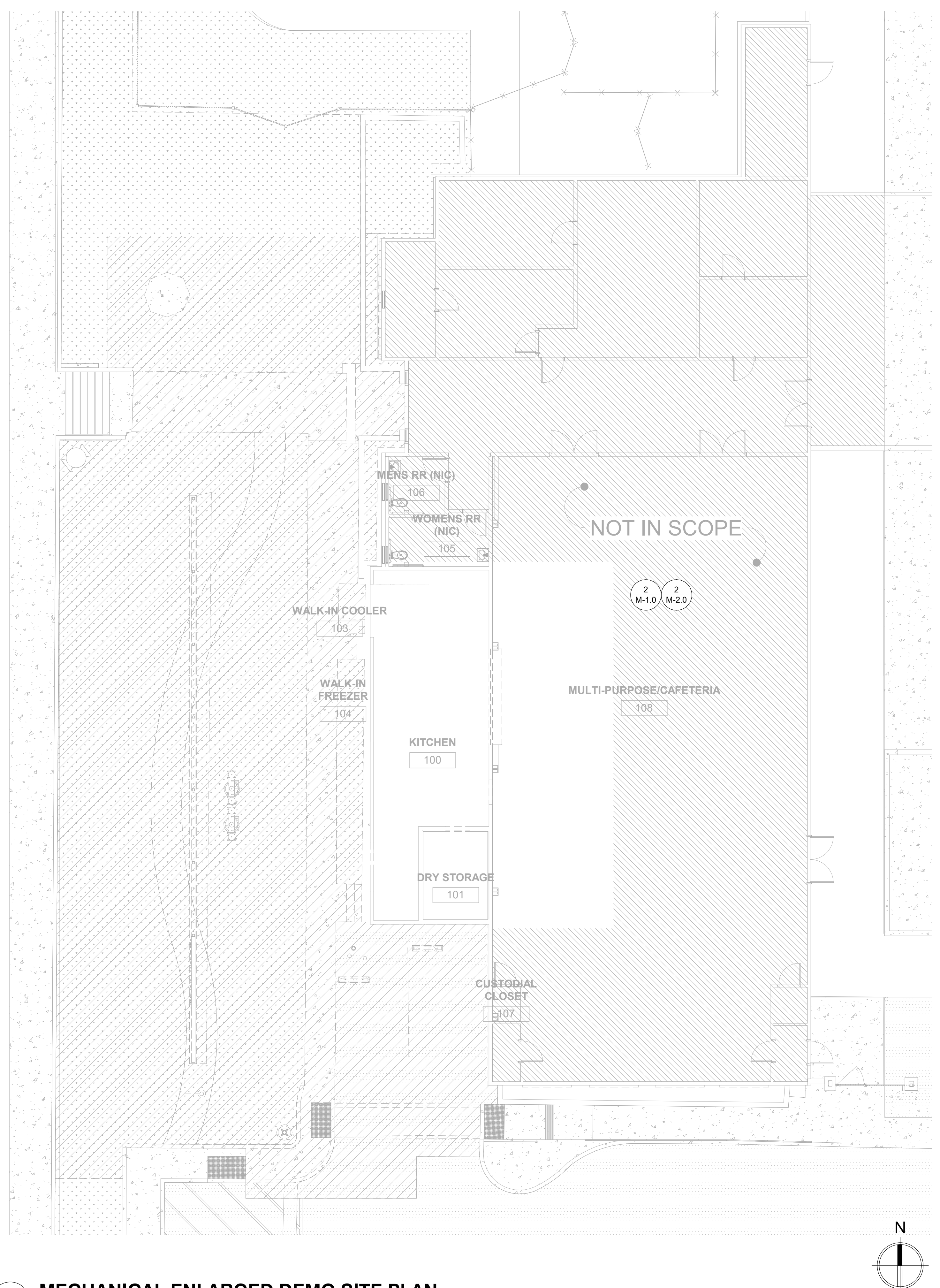
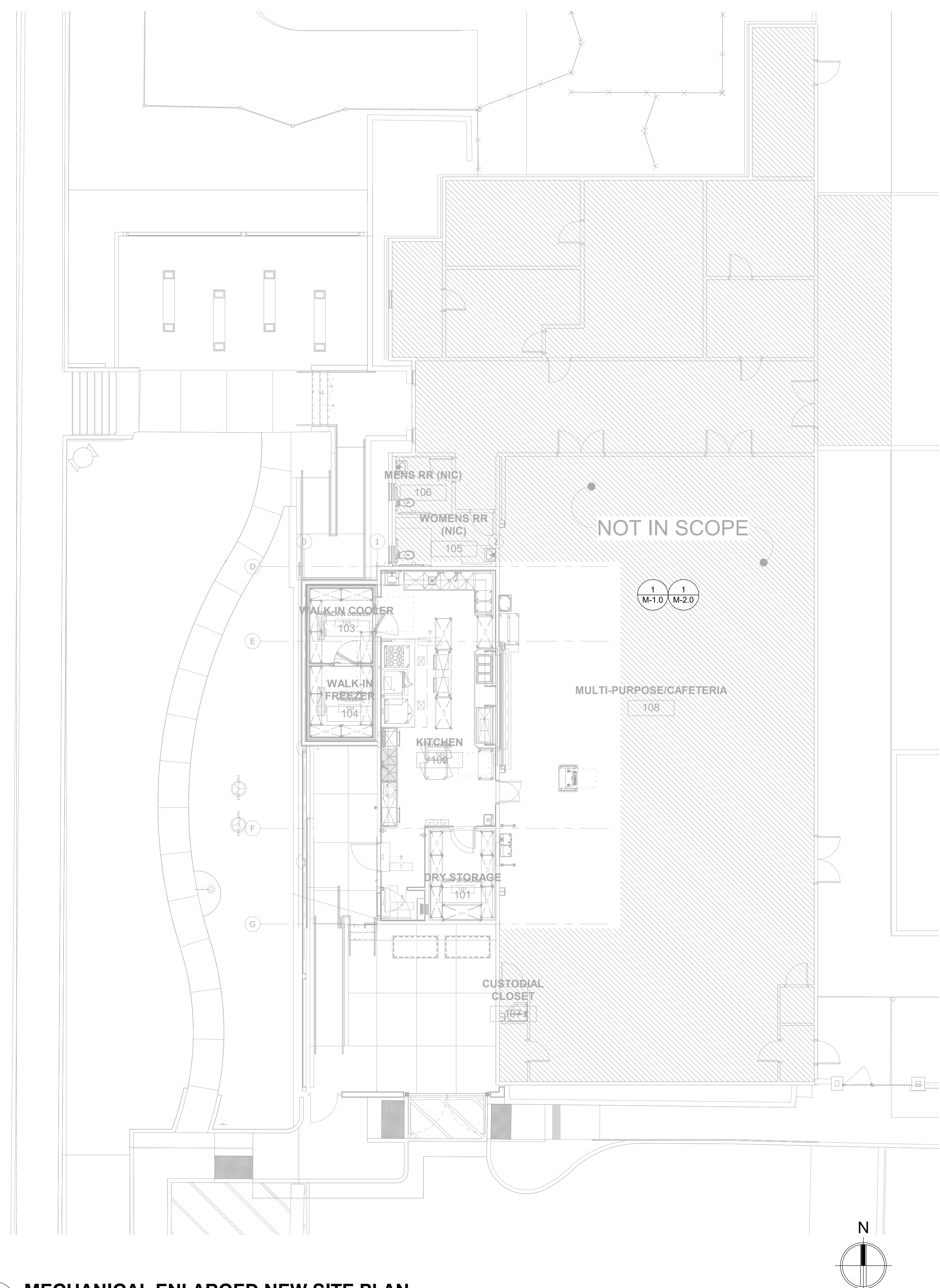
F.C. JOYCE ELEMENTARY SEXTARY SCHOOL, 6050 WATT AVE, NORTH HIGHLANDS, CA 95660, TWIN RIVERS UNIFIED SCHOOL DISTRICT

MECHANICAL SCHEDULES

M-0.2

KITCHEN UPGRADES AT JOYCE E.S.:

KEY NOTES



2 MECHANICAL ENLARGED NEW SITE PLAN
SCALE: 1/8" = 1'-0"

1 MECHANICAL ENLARGED DEMO SITE PLAN
SCALE: 1/8" = 1'-0"

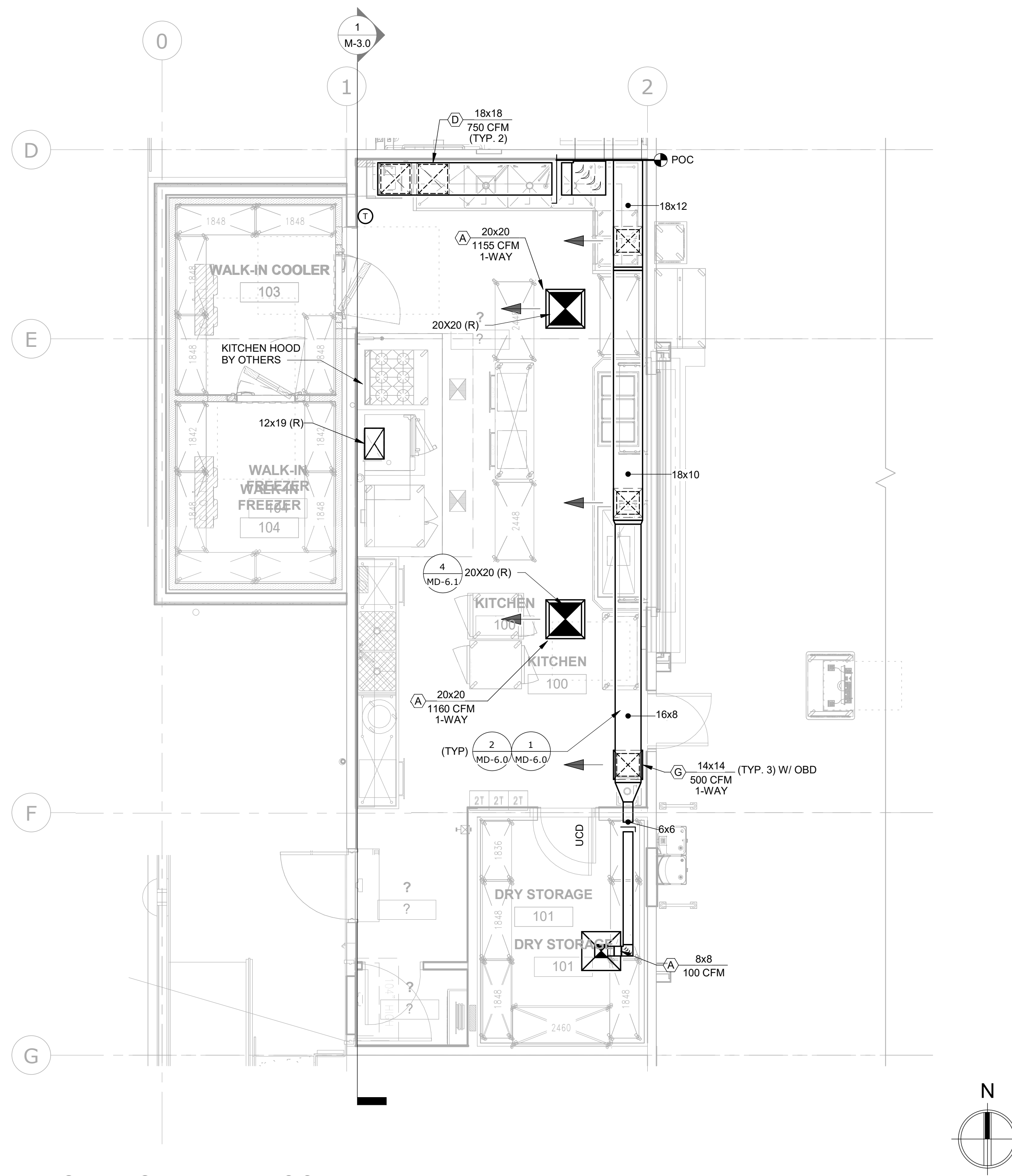
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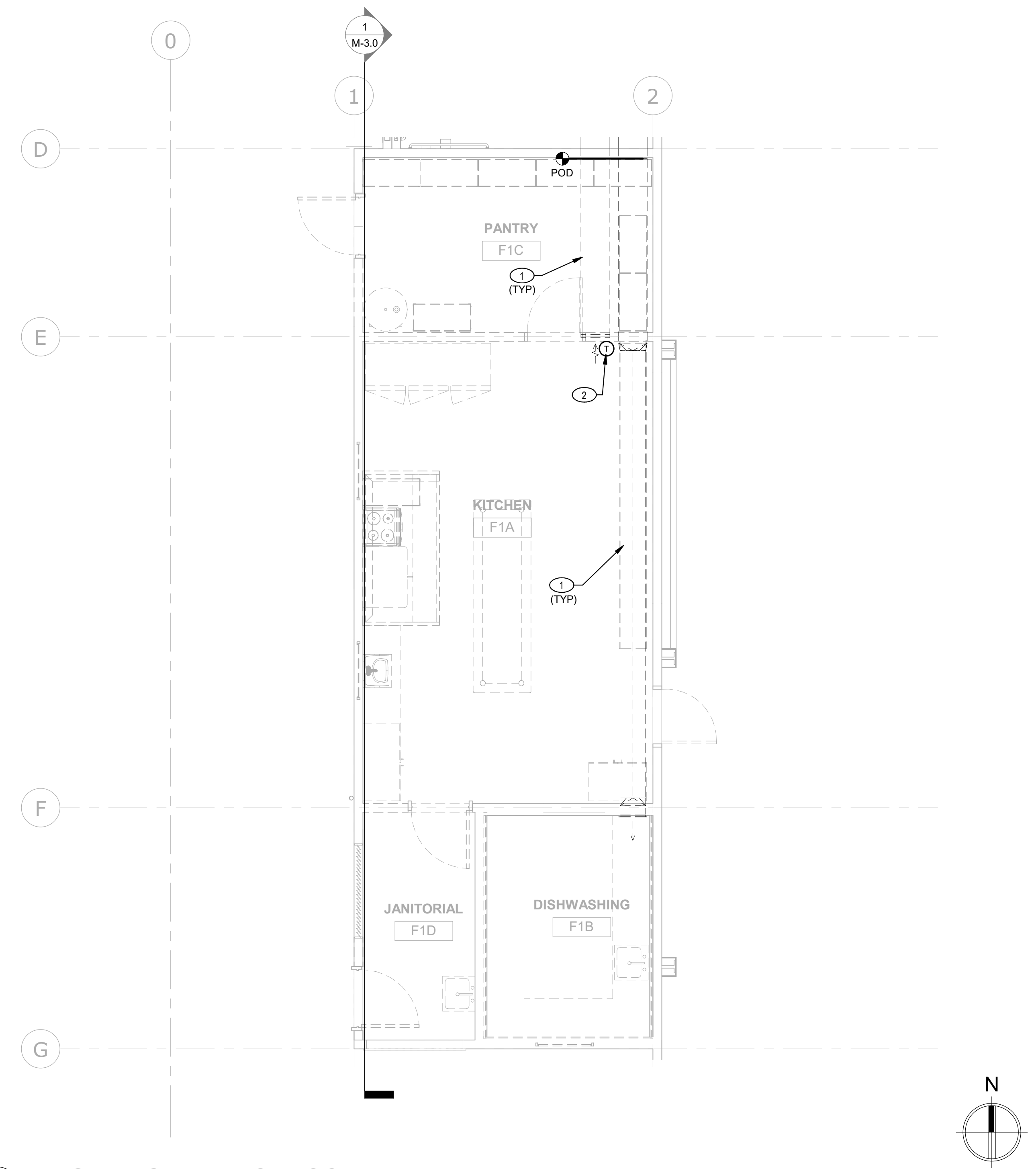
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KITCHEN UPGRADES AT JOYCE E.S.:

- KEY NOTES**
- REMOVE EXISTING DUCTWORK SHOWN HATCHED BACK TO POD.
 - REMOVE EXISTING THERMOSTAT AND RELOCATE. SEE NEW PLAN FOR NEW LOCATION.



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



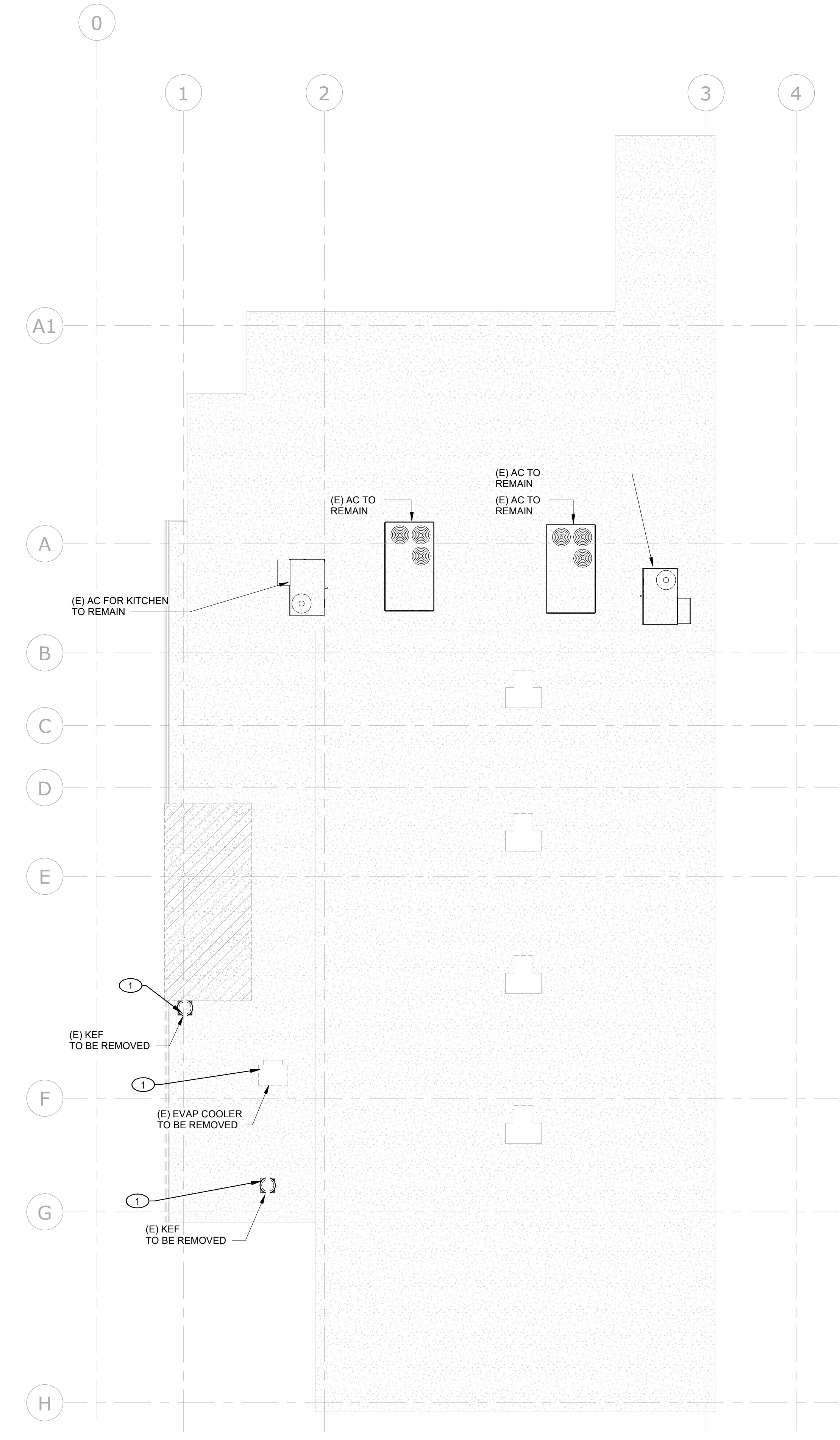
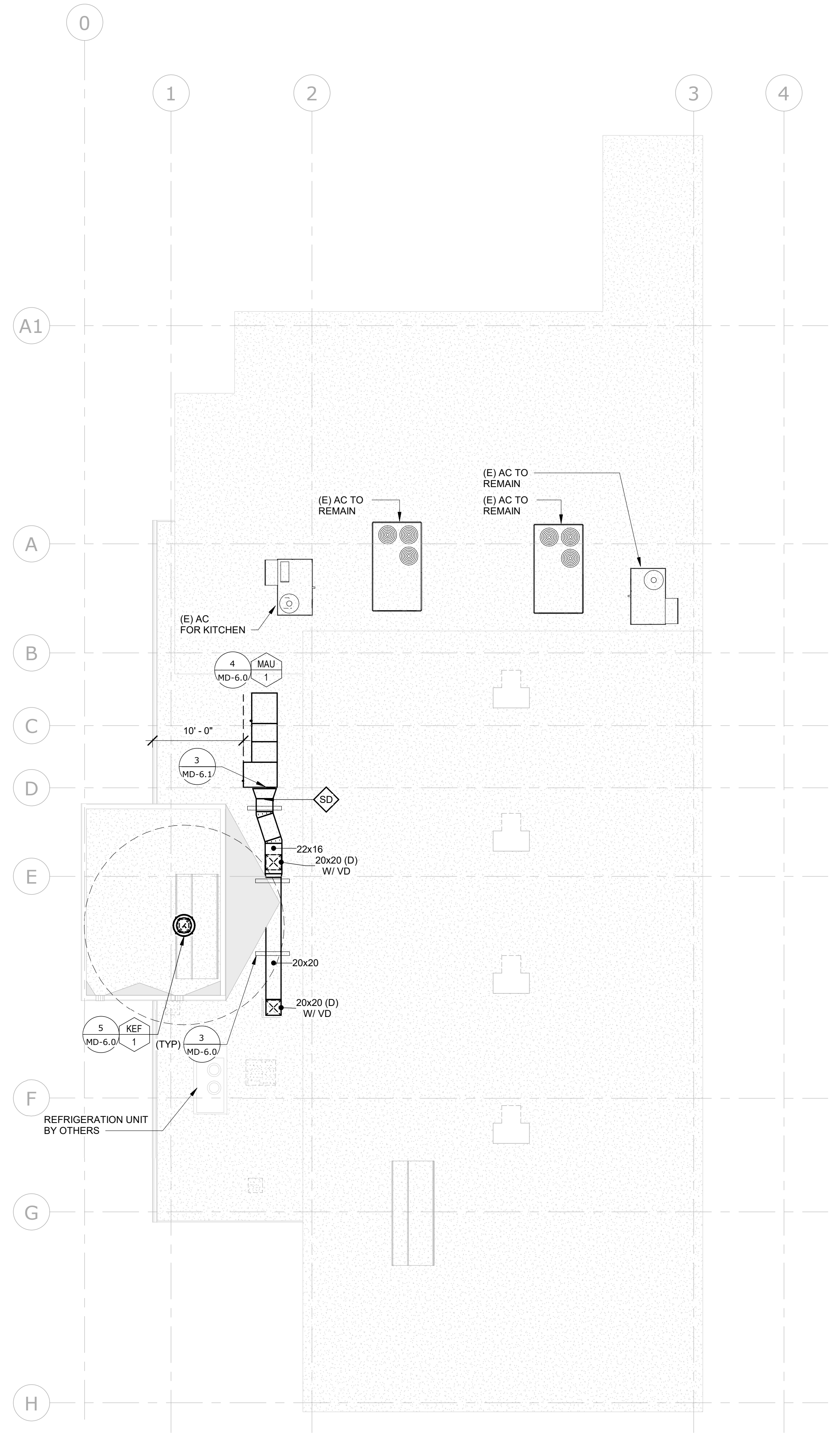
1 MECHANICAL DEMO FLOOR PLAN
SCALE: 1/4" = 1'-0"

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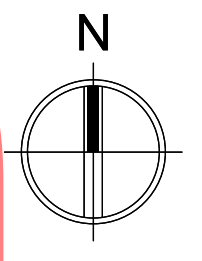
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KEY NOTES
 1 REMOVE EXISTING MECHANICAL EQUIPMENT AND RELATED APPURTENANCES.

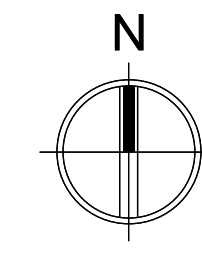


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2 MECHANICAL NEW ROOF PLAN
 SCALE: 1/8" = 1'-0"

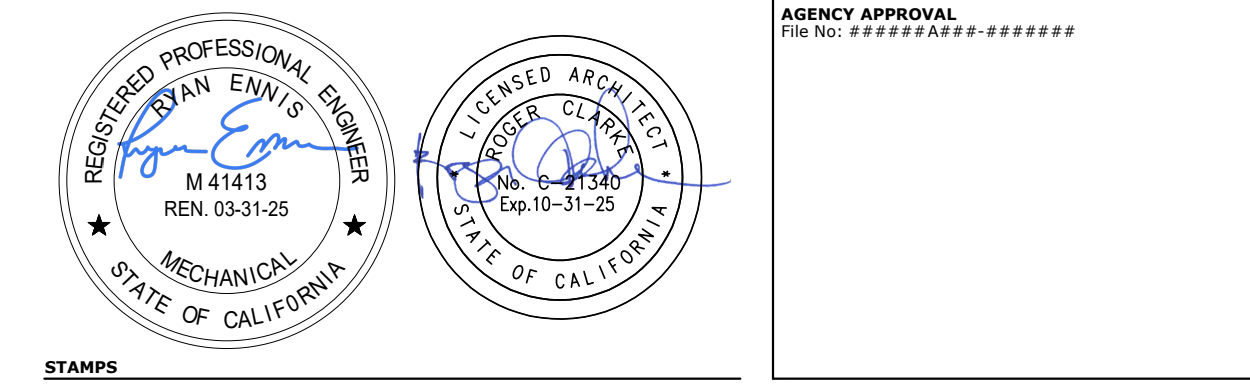


1 MECHANICAL DEMO ROOF PLAN
 SCALE: 1/8" = 1'-0"



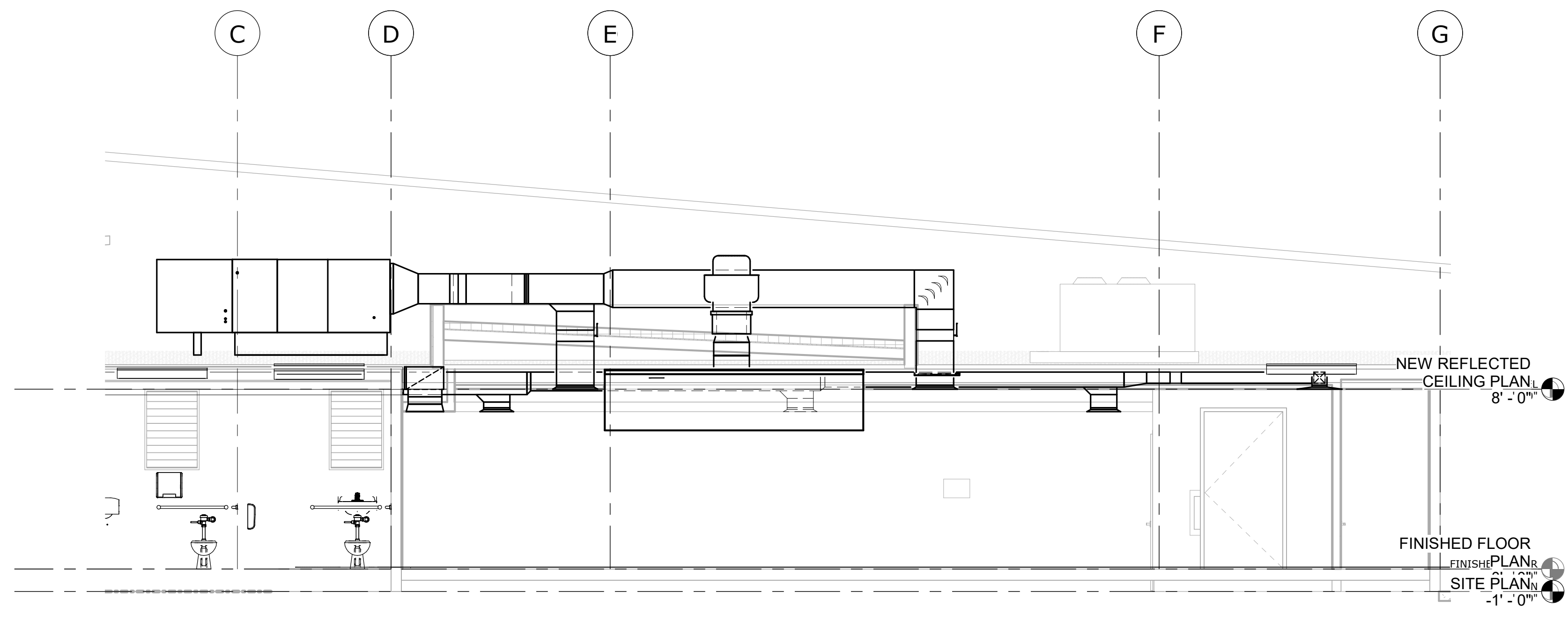
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MECHANICAL SECTION

NTS
1

KEY NOTES

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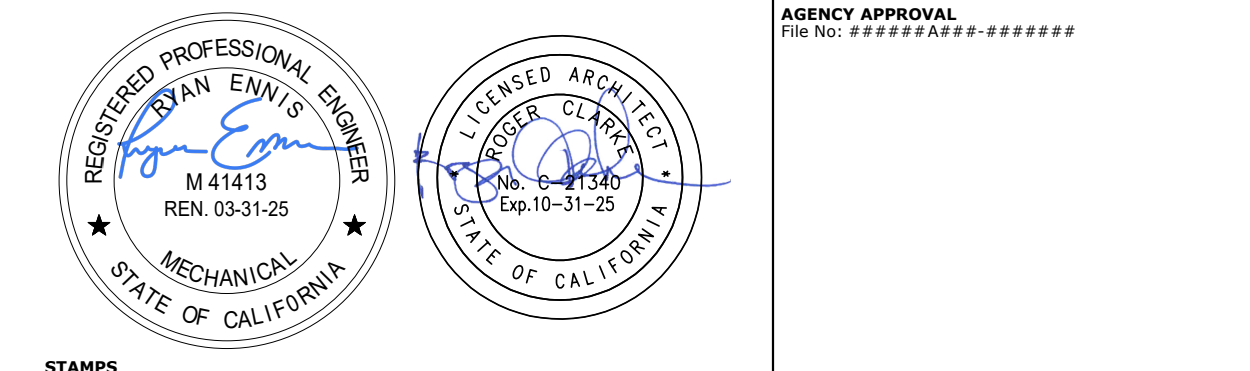
KITCHEN UPGRADES AT JOYCE E.S.

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MECHANICAL SECTIONS

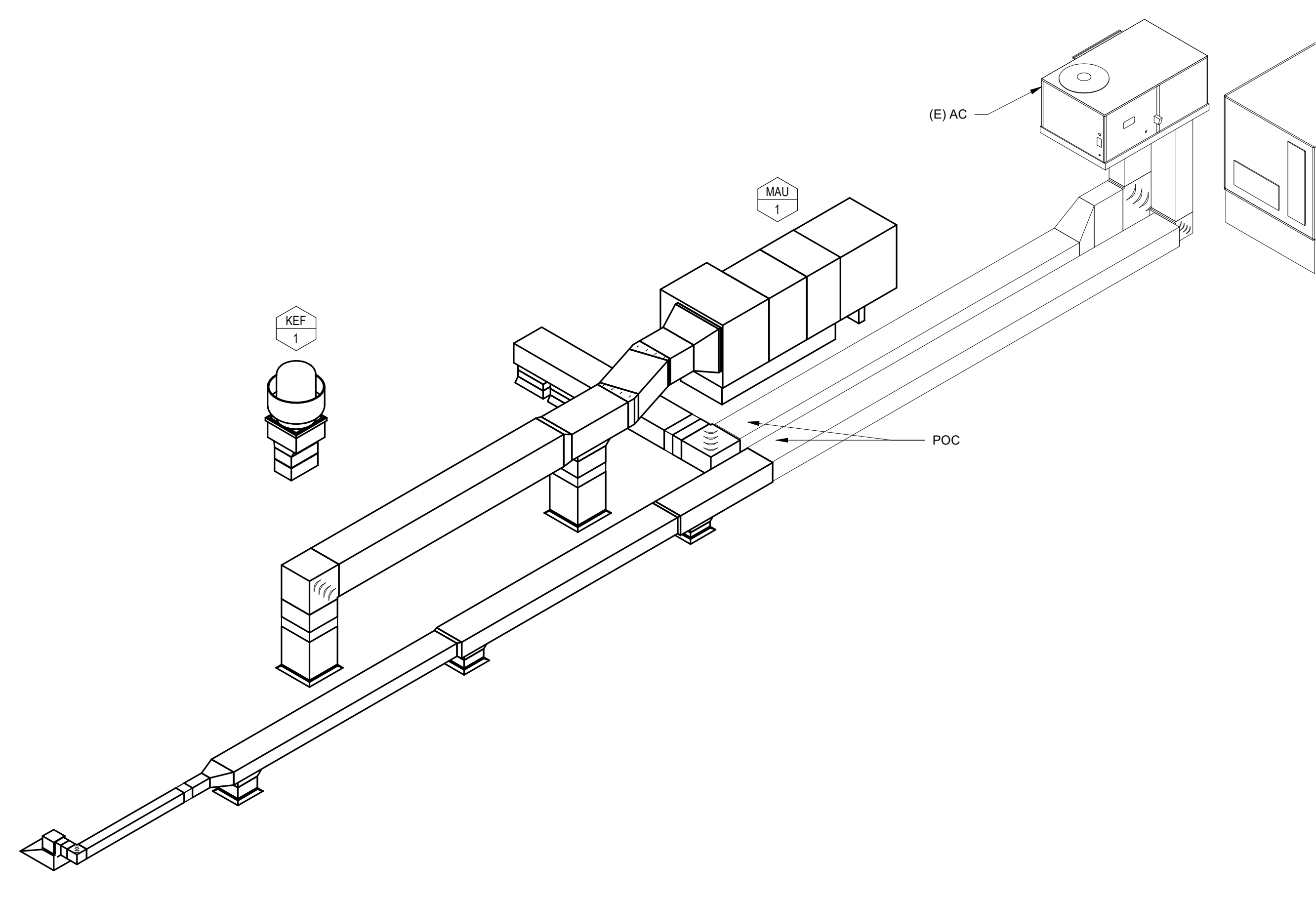
M-3.0

KITCHEN UPGRADES AT JOYCE E.S.:



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MECHANICAL ISOMETRIC NTS 1

KEY NOTES

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**MECHANICAL
 ISOMETRICS**

M-4.0

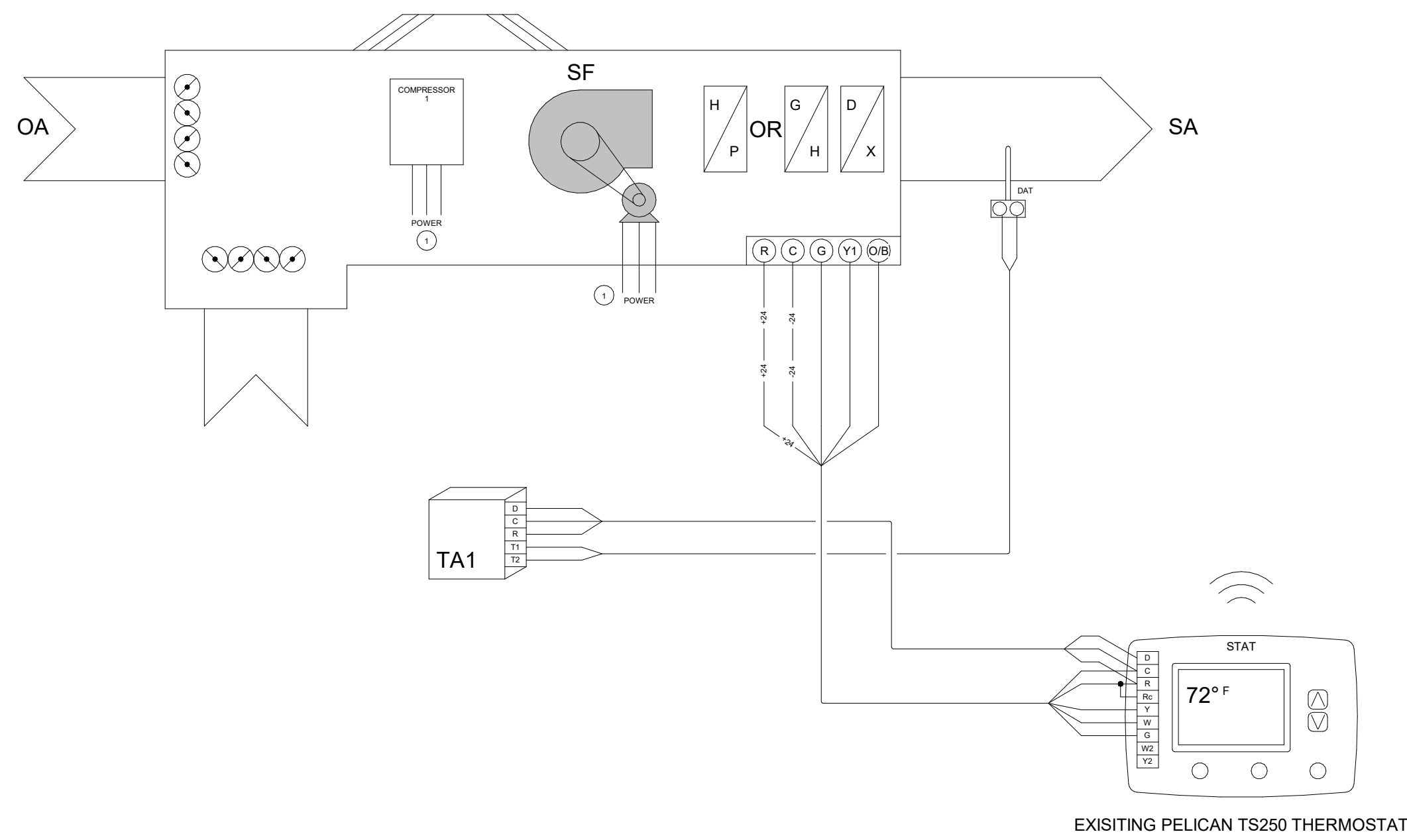
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X-XX-XX

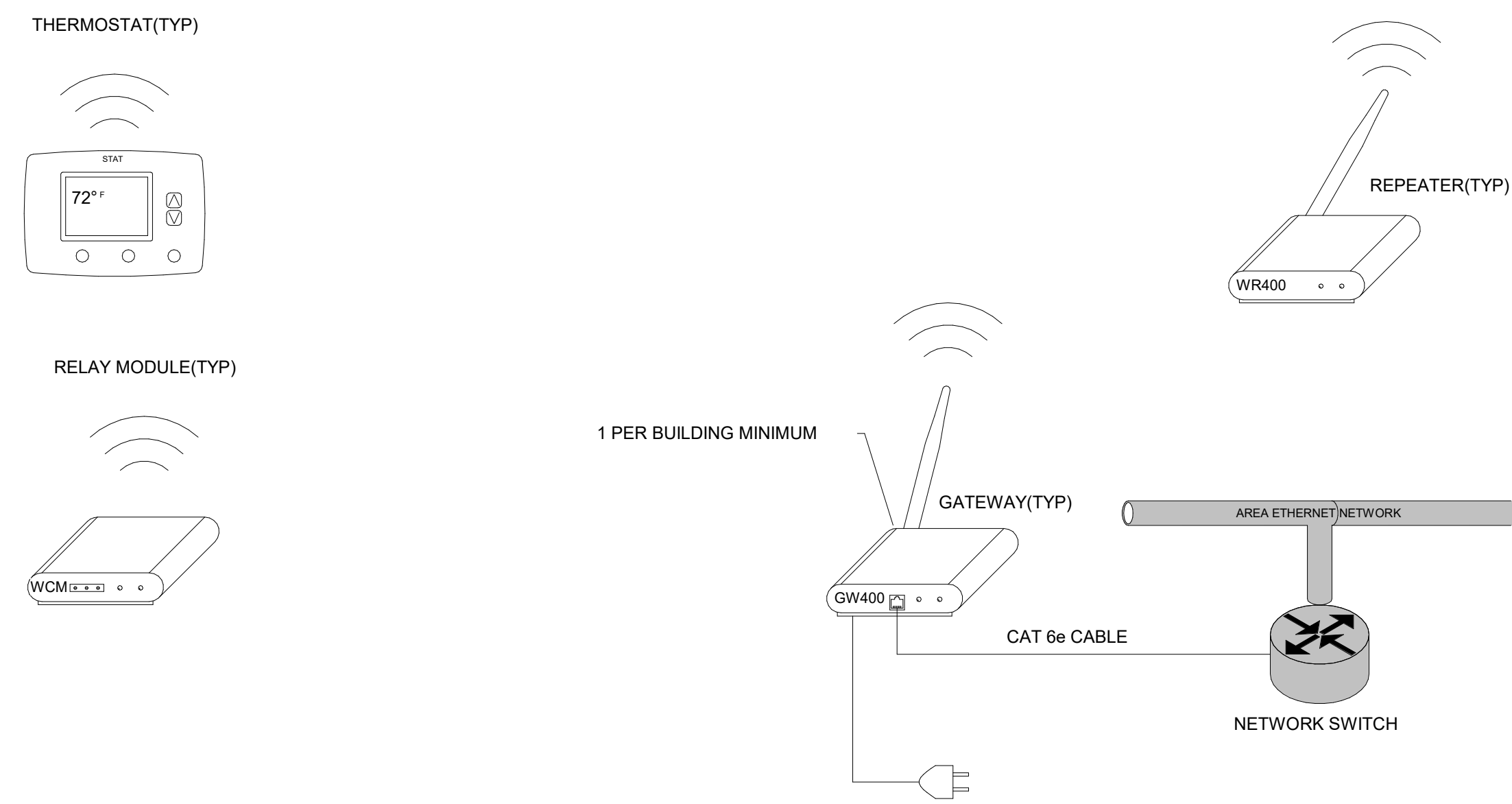
SHEET NOTES	
1	LINE VOLTAGE & CONDUIT BY DIVISION 16.

Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
STAT	0	PEL TS250	WIRELESS TEMPERATURE + CO2 THERMOSTAT
DAT	1	ACI A/CP-D-8"-PB	REMOTE 8" TYPE 2 10K DUCT SENSOR
TA1	1	PEL TA1	TEMPERATURE AND ALARM SENSOR

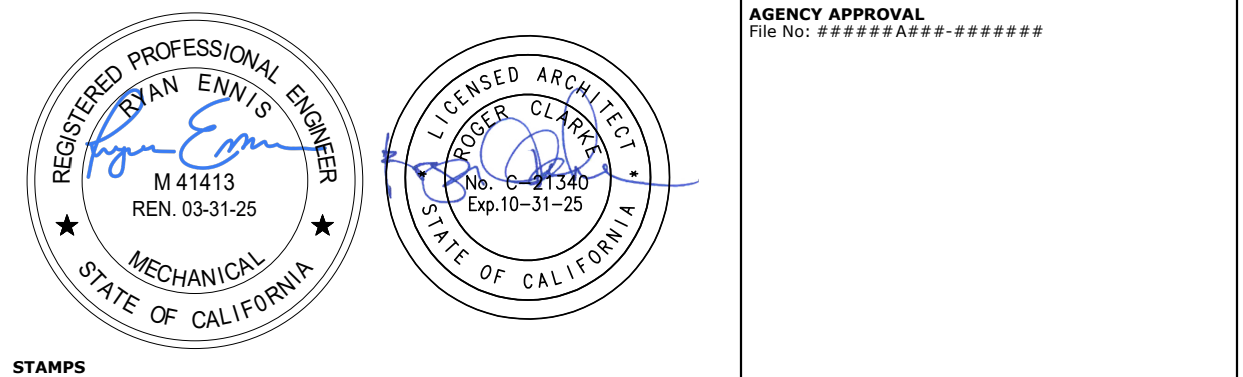
Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
GATEWAY	X	PEL GW400	PELICAN WIRELESS GATEWAY
REPEATER	X	PEL WR400	PELICAN WIRELESS REPEATER



EXISTING HEAT PUMP CONTROL DIAGRAM (FOR REFERENCE ONLY) NTS 2



EXISTING CONTROL ARCHITECTURE DIAGRAM (FOR REFERENCE ONLY) NTS 1



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RUHNAU CLARKE ARCHITECTS

KEY NOTES

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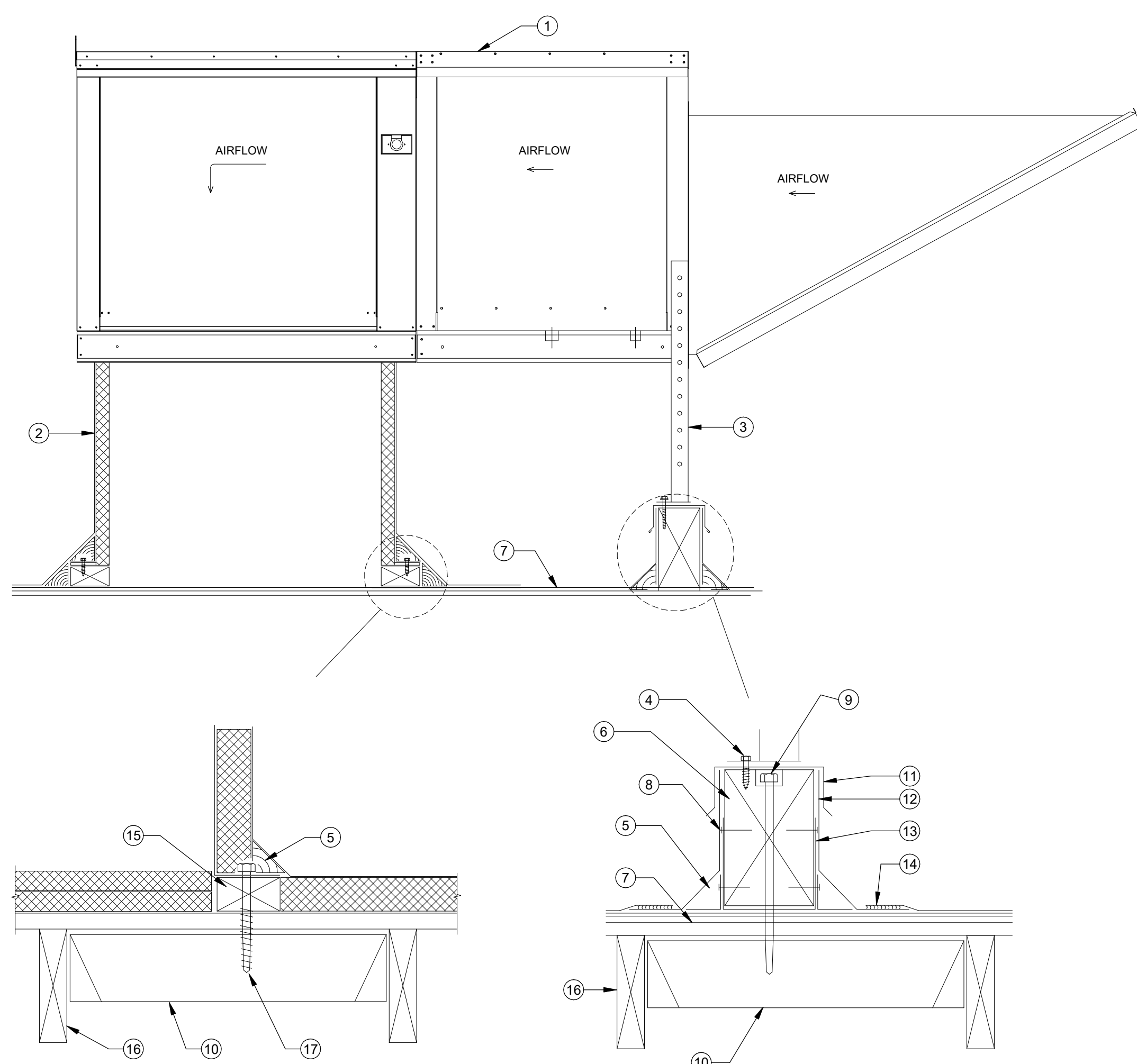
MECHANICAL CONTROLS

M-5.0

KITCHEN UPGRADES AT JOYCE E.S.:

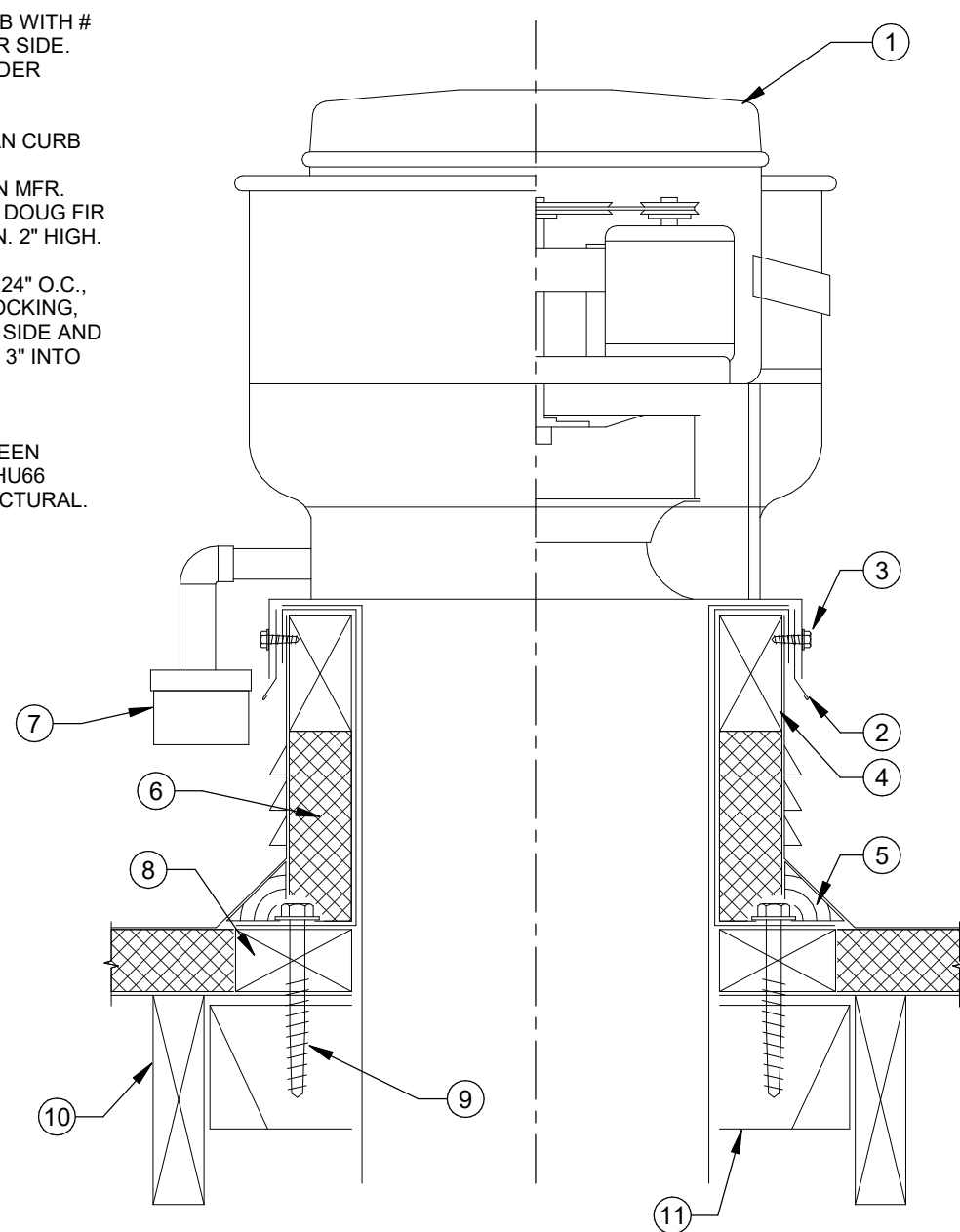
X-XX-XX

1. MAKE-UP AIR UNIT
2. 20" MANUFACTURER'S CURB
3. MANUFACTURER'S ADJUSTABLE LEG
- 3/8" LAG BOLT, 3" EMBEDMENT w/ NEOPRENE WASHER THRU ADJUSTABLE LEGS TO BLOCK PER MANUFACTURER'S RECOMMENDATIONS.
- CANT STRIP
- PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN 1-1/2" HIGH.
- ROOF
- ATTACH WITH GALV. NAILS AT 12" O.C. (3 MIN.), TYP. EA. SIDE ATTACH WITH GALV. NAILS AT 12" O.C. (3 MIN.), TYP. EA. SIDE
- 1/2" LAG BOLTS W/ 4" MIN EMBEDMENT INTO BLG (4) TOTAL REQUIRED EVENLY SPACED.
- 6X6 BLG W/ USE HANGERS EA END TYP AT LAG BOLTS.
- 22 GA. (3) METAL CAP FLASHING
- PVC COATED METAL FLASHING (4) SIDES, LAP & WELD JOINTS
- POLYESTER PROTECTION MAT WRAP BLOCKING
- 2" MIN. CONTINUOUS WELD FLASHING TO SINGLE-PLY ROOFING MEMBRANE
- PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT LEVEL.
- ROOF FRAMING, SEE STRUCTURAL.
- 1/2" LAG SCREWS W/ 4" MIN EMBEDMENT INTO BLOCKING AT 24" O.C., MIN 2 SCREWS EACH SIDE (8 LAG BOLTS TOTAL) AND 6" FROM END, TYP.



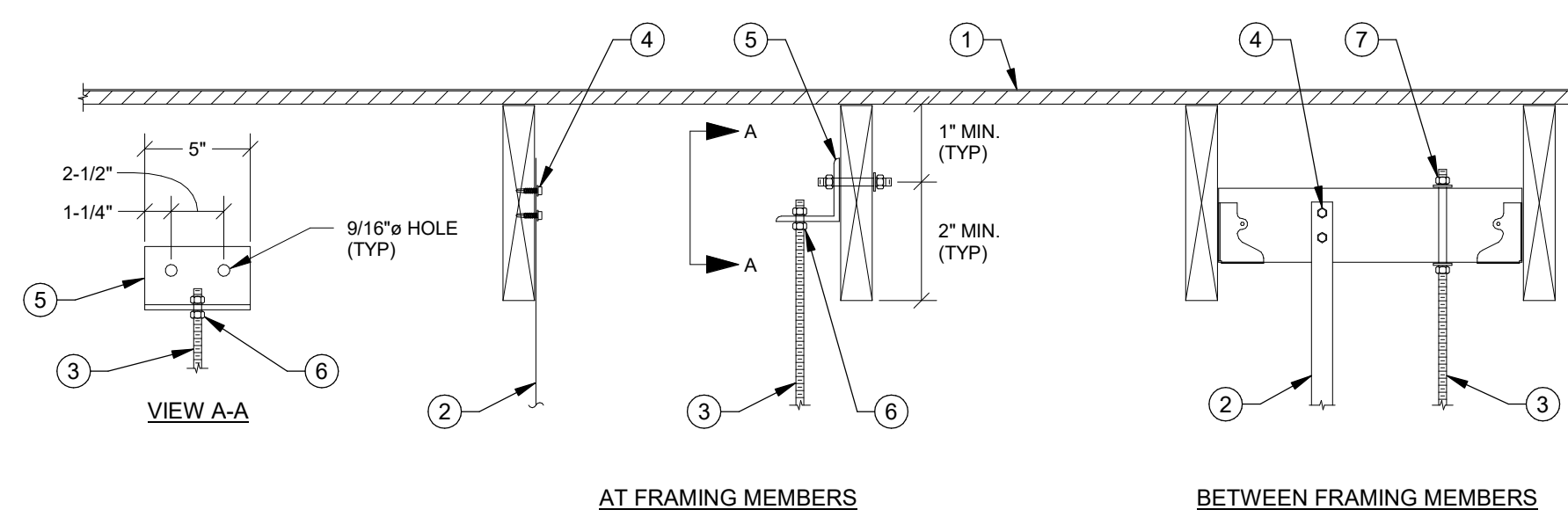
MAKE-UP AIR UNIT MOUNTING NTS 4

1. ROOF MOUNTED EXHAUST FAN
- 20 GA GALV. SM COUNTERFLASHING
- SECURE FAN TO CURB WITH #12 SM SCREWS, 4 PER SIDE
- ROOFING UP AND UNDER FLASHING
- CANT STRIP
- VENTED EXHAUST FAN CURB BY FAN MFR
- GREASE TRAP BY FAN MFR
- PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT LEVEL
- 1/2" LAG SCREW AT 24" O.C., CENTERED OVER BLOCKING, MIN 2 SCREWS EACH SIDE AND 6" FROM END, EMBED 3" INTO BLOCKING, TYP.
- ROOF FRAMING, SEE STRUCTURAL.
- 6X6 BLOCKING BETWEEN JOISTS W/ SIMPSON HUB HANGERS, SEE STRUCTURAL.



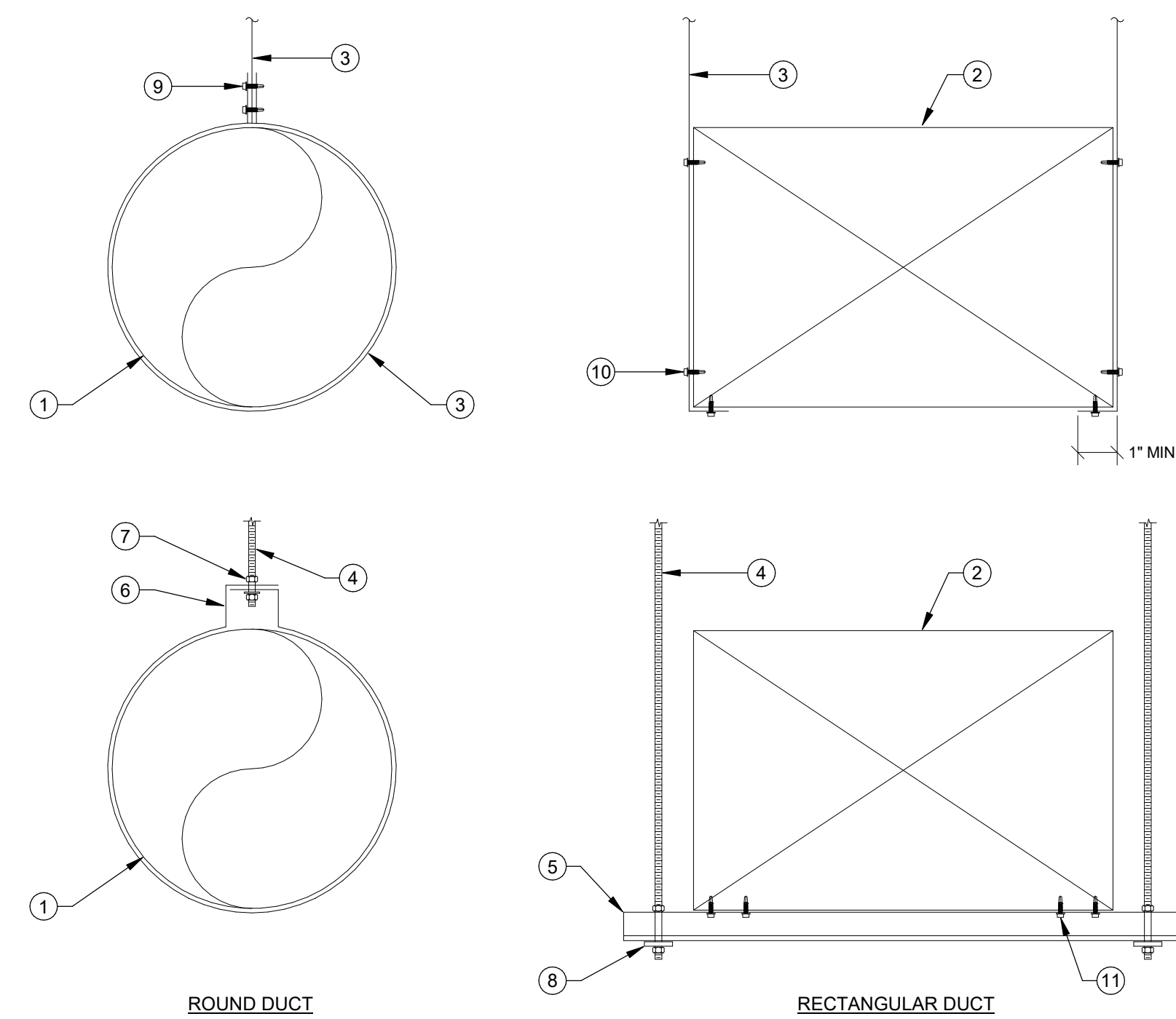
KITCHEN ROOF EXHAUST FAN NTS 5

1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS.
- 1" x 20 GA. GALV. SHEET METAL STRAP
- 3/8" THREADED ROD, B.LINE AT R OR EQUAL
- (2) #12 1" SMS, 2" O.C. MIN.
- 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE
- ATTACH TO FRAMING WITH (2) 1/2" BOLTS OR THREADED ROD WITH NUTS AND WASHER.
- NUT, TOP AND BOTTOM.



HANGER UPPER ATTACHMENTS NTS 1

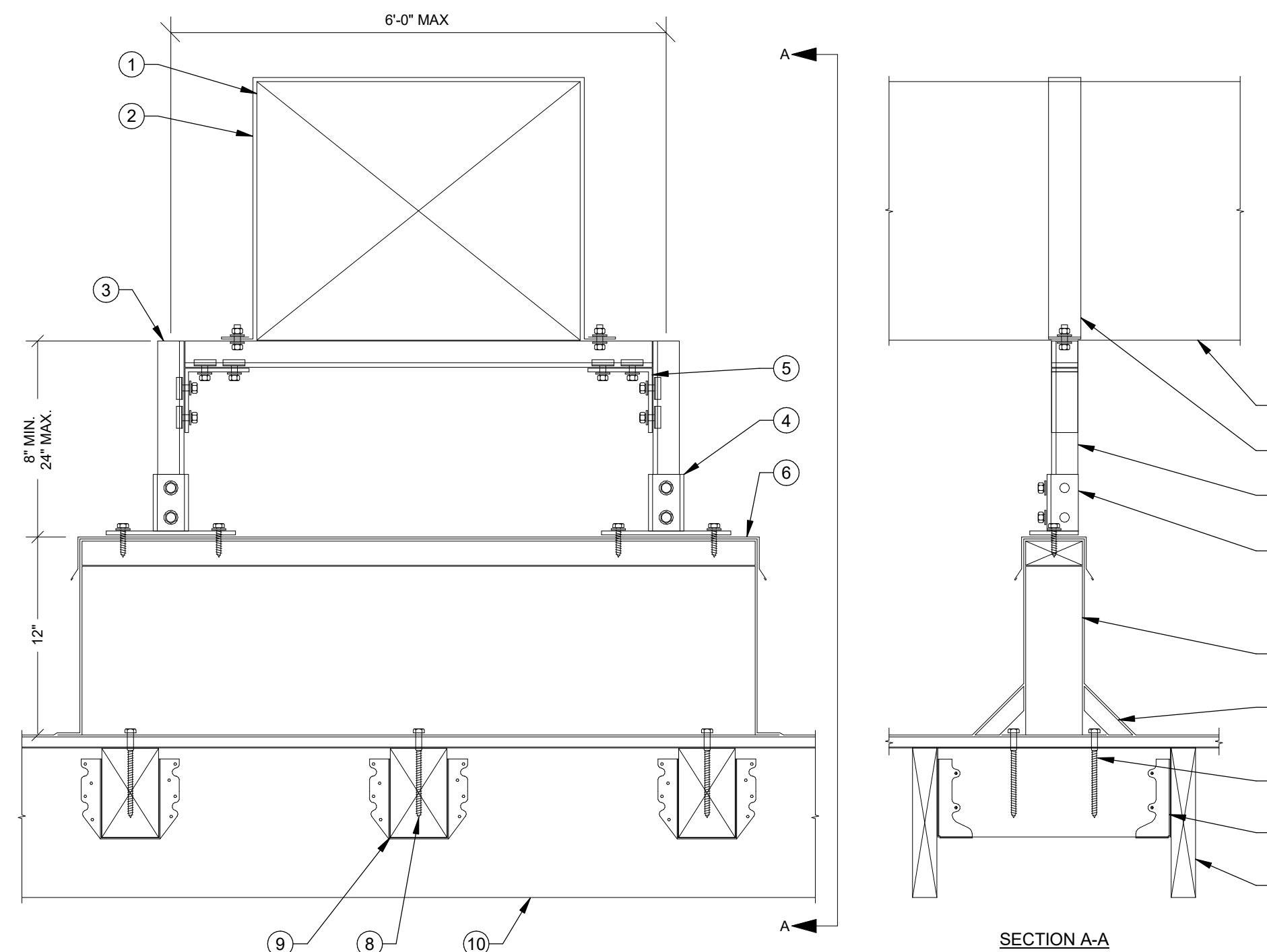
1. ROUND DUCT, SEE PLAN FOR SIZE AND ROUTING.
- RECTANGULAR DUCT, SEE PLAN FOR SIZE AND ROUTING.
- 1" x 20 GA. GALV. SHEET METAL STRAP
- 3/8" THREADED ROD, B.LINE AT R OR EQUAL
- 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B.LINE B22 OR EQUAL
- 1" x 20 GA GALV. SHEET METAL STRAP WITH 3"x2" HIGH FLANGE
- NUT AND WASHER, TOP AND BOTTOM
- NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B.LINE MODEL B2012N OR EQUAL.
- (2) #10 TEK SCREWS
- (3) #10 TEK SCREWS, EA SIDE
- (2) #10 TEK SCREWS, EA SIDE



NOTES:
A. HANGER SPACING TO BE AT MAXIMUM 8FT O.C.

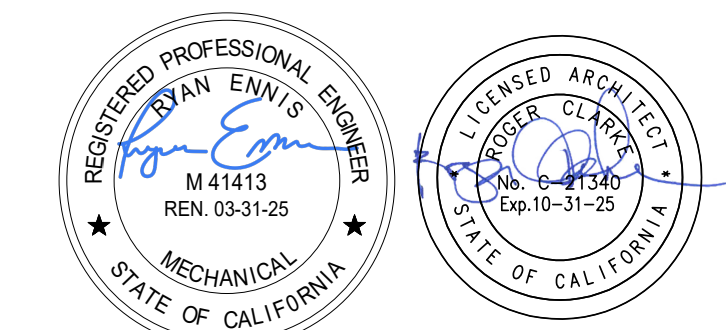
DUCT HANGERS NTS 2

1. RECTANGULAR OR ROUND DUCT, SEE PLAN FOR SIZE.
- 2" WIDE X 18 GA. GALV. SHEET METAL STRAP, FOLD OVER ENDS, SECURE TO CHANNEL WITH 3/8" BOLTS WITH NUT AND WASHER AT EACH END.
- 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B.LINE B22 OR EQUAL, TYP. CHANNEL POST BASE, B.LINE B289FL OR EQUAL, SECURE TO CURB WITH (2) 3/8" STAINLESS STEEL WOOD SCREWS WITH WASHER, MIN. 1" EMBED. SILICONE SEAL PENETRATION WATER TIGHT.
- 4" HOLE CORNER ANGLE, B.LINE B115 OR EQUAL, SECURE TO UNISTRUT CHANNEL WITH (4) 3/8" BOLTS WITH CHANNEL NUTS, TYP.
- 12" HIGH PREFAB. 18 GA. GALV. STEEL SUPPORT CURB WITH 1-1/2" PRESSURE TREATED WOOD NAILER AND SHEET METAL COUNTERFLASHING, PATE MODEL ES-2 OR EQUAL.
- CANT STRIP, BOTH LONG SIDES OF CURB.
- 3/8" LAG SCREW WITH MIN. 4" EMBED INTO BLOCKING, MAX. 24" O.C., MAX. 3" FROM ENDS, MIN. (2) EACH SIDE OF CURB.
- 4X8 BLOCKING BETWEEN JOISTS WITH USE HANGERS EACH END.
- ROOF FRAMING, SEE STRUCTURAL.



NOTE:
A. SUPPORT SPACING TO BE AT MAXIMUM 8FT O.C.

DUCT SUPPORT ON ROOF NTS 3



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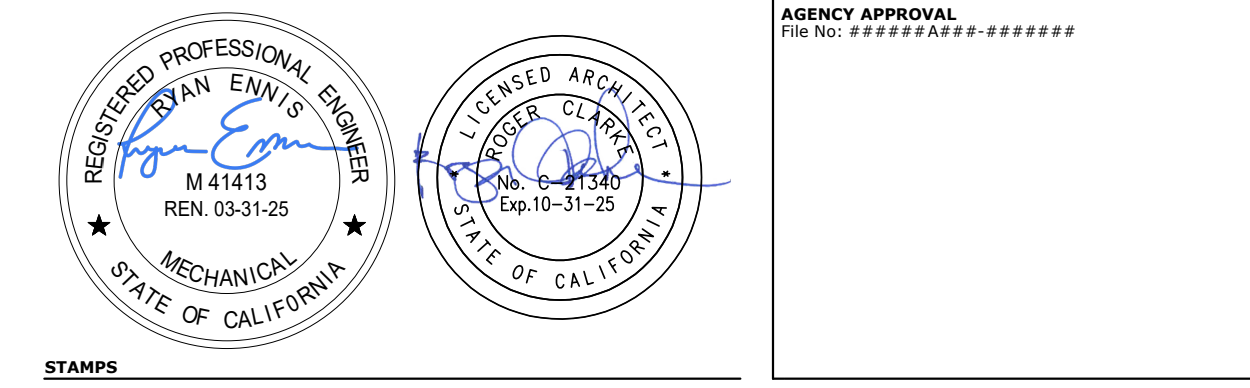
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MECHANICAL DETAILS

MD-6.0

KITCHEN UPGRADES AT JOYCE E.S.

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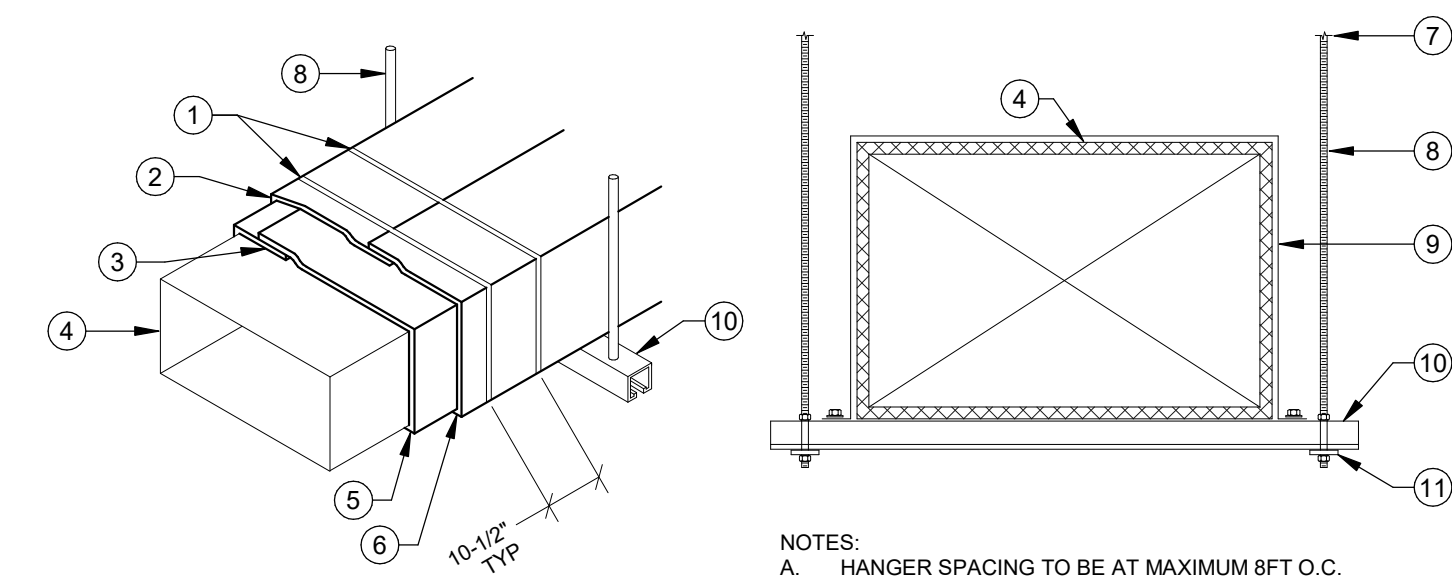
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DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS & OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			AT JOINTS				
			MIN. HT. IN.	DRIVE E SLIP	HEMME D'S SLIP	ALTERN T BAR SLIP	REIN-FROCKED BAR SLIP
			RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22

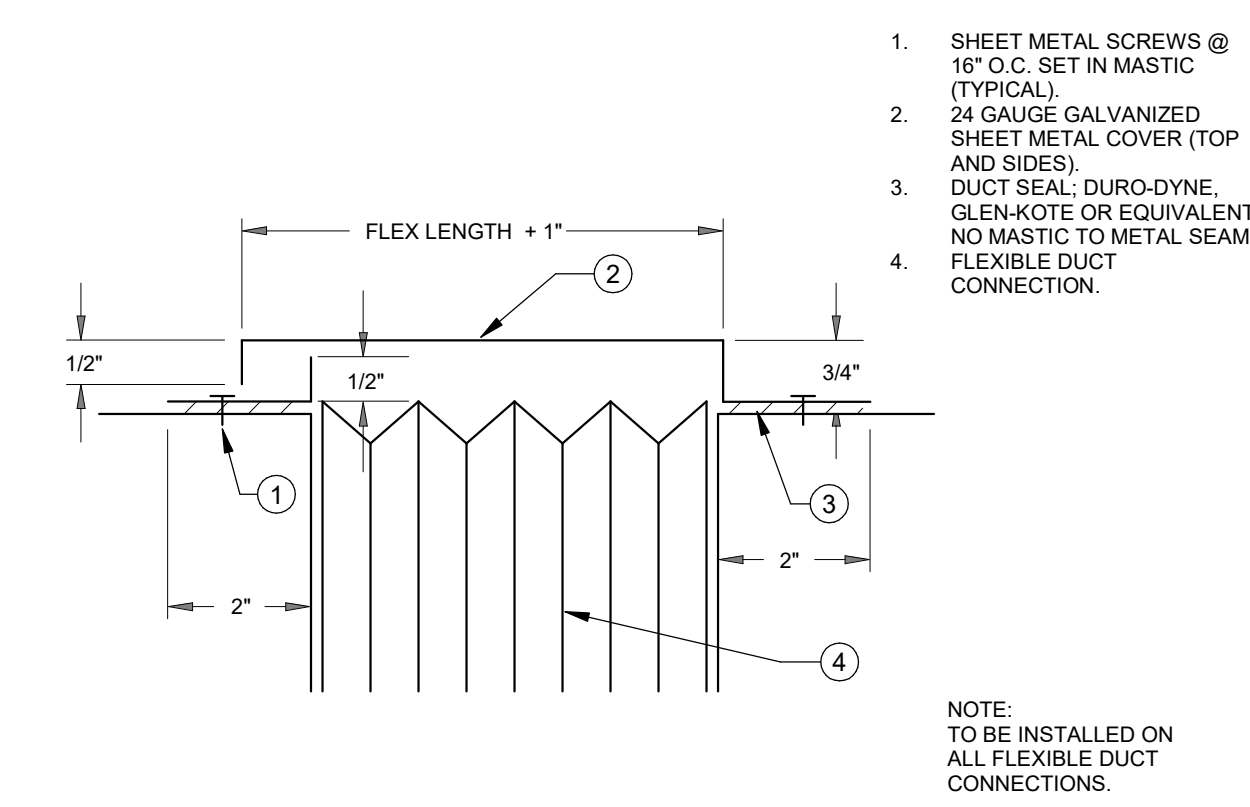
(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

DUCT CONSTRUCTION STANDARDS NTS 1

- STEEL BANDING 1/2" WIDE MIN. (TYP)
- 3" MIN. LONGITUDINAL OVERLAP
- 3" MIN. PERIMETER OVERLAP
- RECTANGULAR FIRE WRAPPED DUCT, SEE PLAN FOR SIZE AND ROUTING.
- FIRST LAYER 3M FIRE BARRIER DUCT WRAP 20A.
- SECOND LAYER 3M FIRE BARRIER DUCT WRAP 20A.
- SEE UPPER ATTACHMENT DETAIL X40000.
- 3/8" THREADED ROD, B-LINE ATR OR EQUAL.
- 2" WIDE x 1/8 GA. SHEET METAL STRAP, FOLD OVER ENDS, SECURE TO CHANNEL W/ 3/8" BOLT AND CHANNEL NUT AT EACH END.
- 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
- NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B2012N OR EQUAL.

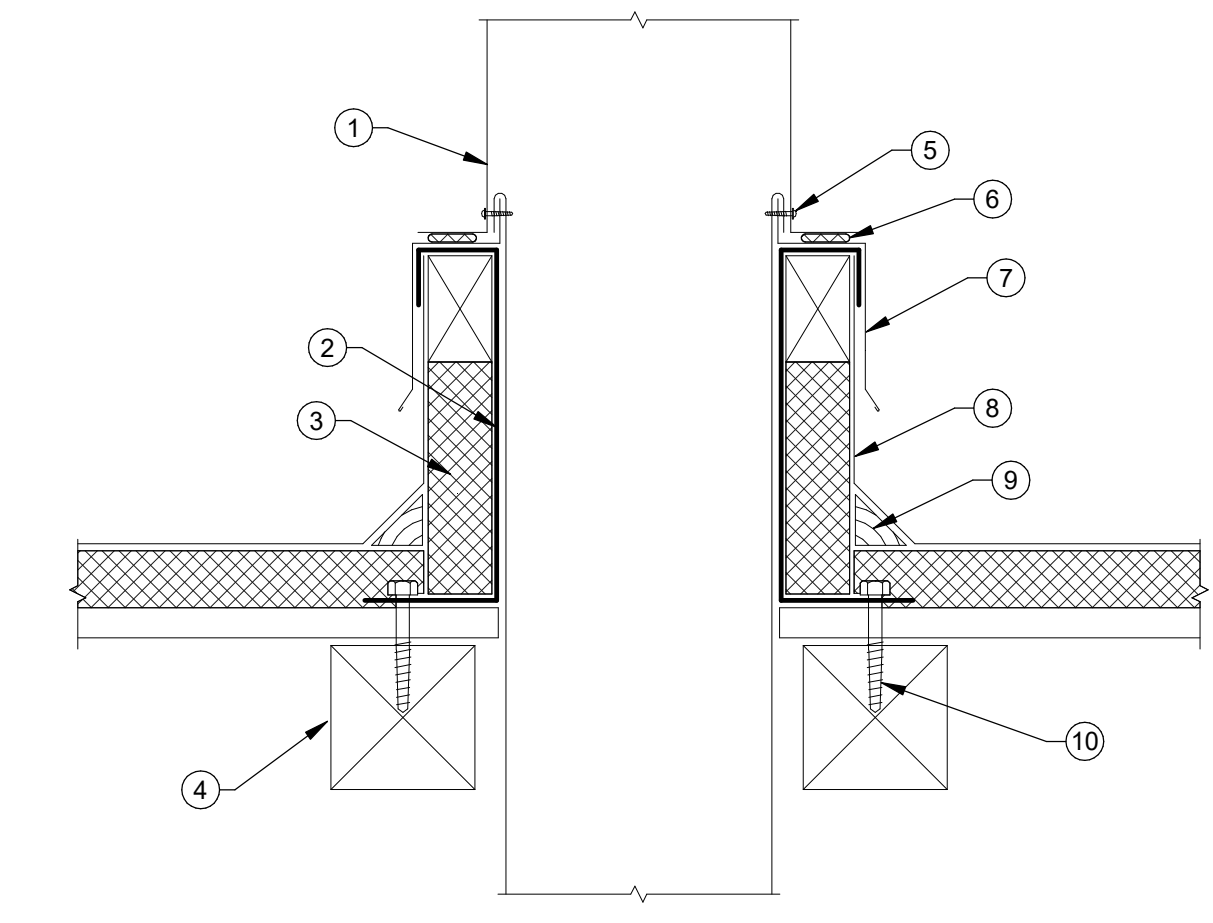


DUCT FIRE WRAP DETAIL NTS 2



SHEET METAL COVER FOR FLEX DUCT NTS 3

- DUCT THRU ROOF, SEE PLAN FOR SIZE AND ROUTING.
- PREFABRICATED PITCHED ROOF CURB, TRIVCURB MODEL TC-3 WITH WOOD NALER
- RIGID INSULATION ALL AROUND.
- (E) STRUCTURAL BEAM.
- #10 MIN. x 1" S.M. SCREW WITH NEOPRENE WASHER AT 6" O.C., EACH SIDE.
- SEALANT ALL AROUND.
- 26 GA. GALV. S.M. COUNTER FLASHING.
- ROOF UP AND UNDER FLASHING.
- CANT STRIP
- 3/8" x 3" LAG SCREW AT 12" O.C., MIN. 2 PER SIDE, 3" EMBED. INTO ROOF FRAMING OR BLOCKING.
- 4X4 BLOCKING W/ U44 HANGERS EACH END.

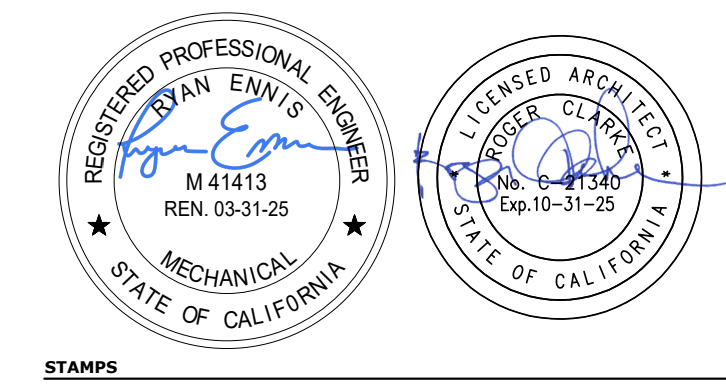


DUCT THRU ROOF NTS 4

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AGENCY APPROVAL
FIG No: *****



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EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.7 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLTS RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24 THROUGH 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
 OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (CPFM) #0043-13.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	EQUIPMENT DESIGNATION / UNIT ABBREVIATION NUMBER	
	FIXTURE DESIGNATION / UNIT ABBREVIATION NUMBER	
	DETAIL DESIGNATION / DETAIL NUMBER SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
	VENT	V
	GAS	G
	MEDIUM PRESSURE GAS	MG
	LIQUID PROPANE GAS	LPG
	SEWER	S
	GREASE WASTE	GW
	ACID VENT	AV
	ACID WASTE	AW
	STORM DRAIN	SD
	ROOF DRAIN	RD
	OVERFLOW DRAIN	OD
	CONDENSATE DRAIN	C
	SECONDARY CONDENSATE DRAIN	SCD
	TEMPERATURE & PRESSURE RELIEF	T&P
	DRAIN	D
	FIRE SPRINKLER	FS
	PIPE CAP	
	PIPE RISER / DROP	(R)(D)
	SHUT-OFF VALVE IN BOX	SOV
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	CLEANOUT	CO
	HOSE BIBB	HB
	OVERFLOW DRAIN OUTLET	
	BALL VALVE	BV
	GATE VALVE	GV
	CHECK VALVE	CHK.V
	MIXING VALVE	TMV
	SHUT-OFF COOK	SOC
	CIRCULATION PUMP	CP
	BALANCING VALVE	BLV
	TRAP PRIMER	TP
	PRESSURE REDUCING VALVE	PRV
	GAS PRESSURE REGULATOR	GPR
	AUTOMATIC EARTHQUAKE VALVE	EV
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	AB.C.
	TO ABOVE / BELOW	TA / TB
	FROM ABOVE / BELOW	FA / FB
	CONTINUATION	CONT.
	NEW	(N)
	EXISTING	(E)
	POINT OF DISCONNECTION	Pd / PDC
	DEMOLISHED/DEMO	

PLUMBING SPECIFICATIONS

- THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
 - 2022 CALIFORNIA BUILDING CODE
 - 2022 CALIFORNIA MECHANICAL CODE
 - 2022 CALIFORNIA PLUMBING CODE
 - 2022 CALIFORNIA ELECTRICAL CODE
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS
 - 2022 CALIFORNIA BUILDINGS ENERGY EFFICIENCY STANDARDS - TITLE 24
 - NATIONAL FIRE PROTECTION ASSOCIATION CALIFORNIA STATE FIRE MARSHAL'S FIRE MARSHAL'S FIRE MARSHAL'S FIRE MARSHAL'S FIRE MARSHAL'S
- ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
- THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.
- CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.
- THE LOCATIONS OF EQUIPMENT, PIPING, AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.
- SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA, EQUIPMENT PERFORMANCE SCHEDULED ARE MINIMUM CAPACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
- ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
- PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS PLUMBING COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
- CHECK ALL SYSTEMS FOR LEAKS. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
- BEFORE COMMENCING WORK CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COSTS SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.
- COORDINATE ALL NEW OR CHANGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ALL WORK PERFORMED NOT IN ACCORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS PRIOR TO COORDINATING WITH THE UTILITY COMPANY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- MAKE ALL CONNECTIONS TO EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AS FAR AS TRAPS, DRAINS, FLEXIBLE CONNECTIONS, ETC. AND AS REQUIRED BY THE EQUIPMENT AND LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND ADA ACCESSIBILITY REQUIREMENTS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P-0.1	PLUMBING LEGEND & NOTES
P-0.2	PLUMBING SCHEDULES
PS-1.1	PLUMBING ENLARGED DEMO & NEW SITE PLANS
P-1.0	PLUMBING DEMO & NEW WATER & GAS FLOOR PLANS
P-1.1	PLUMBING DEMO & NEW WASTE & VENT PLANS
P-2.0	PLUMBING DEMO & NEW ROOF PLANS
P-3.0	PLUMBING SECTIONS
P-4.0	PLUMBING ISOMETRICS
PD-6.0	PLUMBING DETAILS
PD-6.1	PLUMBING DETAILS

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 DELTA # _____ DATE _____ ADD _____ AFO _____ CCD _____ REV _____

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 3751 PALMER WAY, SUITE C, CALSBAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENTRY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLUMBING LEGEND & NOTES

P-0.1

KITCHEN UPGRADES AT JOYCE E.S.:

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6/27/2024 5:22:58 PM

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PIPE HANGER SCHEDULE

PER 2022 CPC TABLE 313.3

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	CAST-IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT. NOTES 1,2,3,4	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET; NOTE 5
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR; NOTE 7	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR; NOTE 7
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET, ALLOW FOR EXPANSION EVERY 30 FEET; NOTES 3,6	BASE AND EACH FLOOR, PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET; NOTE 6
CPVC	SOLVENT CEMENTED	1 INCH AND SMALLER, 3 FEET; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR, PROVIDE MID-STORY GUIDES; NOTE 6
PEX	COLD EXPANSION, INSERT AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR, PROVIDE MID-STORY GUIDES
POLYPROPYLENE (PP)	FUSION WELD	1 INCH AND SMALLER, 32 INCHES; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR, PROVIDE MID-STORY GUIDES

NOTES:
 1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18"
 2. SEISMIC BRACE NOT TO EXCEED 40 FOOT INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
 3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
 4. HANGERS SHALL NOT BE PLACED ON THE COUPLING.
 5. VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.
 6. SEE THE APPROPRIATE IAPMO INSTALLATION STANDARD FOR EXPANSION AND OTHER SPECIAL REQUIREMENTS.
 7. NATURAL GAS PIPING TO BE SUPPORTED PER 2022 CPC TABLE 1210.3.5.1.

HANGER ROD SIZING

PER 2022 CPC TABLE 313.6

PIPE AND TUBE SIZE (IN)	ROD SIZE (IN)
1/2 - 4	3/8
5 - 8	1/2
10 - 12	5/8

NATURAL GAS SIZING TABLE

BASED ON 2022 CPC EQUATION 1215.3(1) LOW PRESSURE (SCHEDULE 40 METALLIC)
 PIPE LENGTH (FT)= 650
 MAXIMUM LOAD (MBH)= 1003

PIPE SIZE	PIPE ID	MAX. MBH
1/2	0.622	18
3/4	0.824	37
1	1.049	71
1-1/4	1.38	146
1-1/2	1.61	219
2	2.067	423
2-1/2	2.469	675
3	3.068	1193
4	4.026	2436

GAS EQUIPMENT CAPACITIES
 EQUIPMENT GAS LOAD (MBH)
 KITCHEN EQUIP #25 210
 KITCHEN EQUIP #26 304
 KITCHEN EQUIP #27 90
 WH-1 199
 MAU-1 200
TOTAL 1003

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
BEP-1	BACKFLOW PREVENTER	---	---	3/4"	---	WATTS SERIES LF7 POINT OF USE LEAD-FREE DOUBLE CHECK VALVE.
DF-1	DRINKING FOUNTAIN (CSC ACCESS)	2"	1-1/2"	3/4"	---	ELKAY MODEL VRC187WSK ELECTRIC WATER COOLER DRINKING FOUNTAIN, VANOS RESISTANT BOTTLE FILLING STATION, H/O MOUNTING FOR CSC ACCESS INSTALLATION, PUSH BUTTON VALVE, BUBBLER HEAD, S.S. BOWL CONSTRUCTION, WALL MOUNT, 8 GPM AT 30 PSI, GFCI 115V, 300 WATTS, 1.0 FLA, 125 LBS. PROVIDE P-TRAP AND MOUNTING FRAME.
ED-1	FLOOR DRAIN	2"	1-1/2"	TP	---	WATTS #F5-100-5, 5" DIAMETER NICKEL BRONZE TOP WITH 2" PIPE FLANGE AND SEPAJGE PAN, PROVIDE TRAP PRIMER CONNECTION.
ES-1	FLOOR SINK	2"	1-1/2"	TP	---	WATTS #F5-740, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2 GRATE, 8" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CALK OUTLET, & DOME STRAINER, PROVIDE TRAP PRIMER CONNECTION.
ES-2	FLOOR SINK	3"	2"	TP	---	WATTS #F5-740, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2 GRATE, 8" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CALK OUTLET, & DOME STRAINER, PROVIDE TRAP PRIMER CONNECTION.
ES-3	FLOOR SINK	2"	1-1/2"	TP	---	WATTS #F5-770, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 8"x4" TOP WITH 1/2 GRATE, 4" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CALK OUTLET, & DOME STRAINER, PROVIDE TRAP PRIMER CONNECTION.
GL-1	GREASE INTERCEPTOR	3"	2"	---	---	SCHIER GREAT BASIN MODEL GB-50, 287 CAPACITY AT 75 GPM, SIDE OUTLET, PROVIDE H-20 RATED CAST IRON COVER, PROVIDE FACTORY FC92 RISER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
HB-1	ROOF HYDRANT	---	---	3/4"	---	"WOODFORD" #8RHMS, FREEZELESS ROOF HYDRANT WITH MOUNTING SYSTEM, VACUUM BREAKER, NO DRAIN REQUIRED.
JS-1	JANITORS SINK	3"	2"	3/4"	3/4"	ACORN #7HC-24, 75.5"X55.5"X18" H/WG, SERVICE / MCP SINK, CHICAGO FAUCET #897, CP, TWO HANDLES FAUCET, PROVIDE ACORN STAINLESS STEEL CAP, (2) WALL GUARD, 3/8" HOSE WITH WALL HANGER, AND MOP HANGER.
SP-1	SUMP PUMP	3"	2"	---	---	LIBERTY PUMP MODEL EPS10944 DUPLEX SEWAGE EJECTOR, 160 GPM, 24" OF HEAD, 115V/1PH, 1/2 HP, 3-FLOAT SYSTEM WITH NEMA 4X ALTERNATING CONTROL PANEL, 30" DIA, 5-48" HEIGHT, FIBERGLASS BASIN WITH ANTI-FLOTTATION FLANGE, COVER RATED FOR 300 LBS/SQFT, PROVIDE STAINLESS STEEL GUARD RAIL ASSEMBLY, CIRCULAR AND JET-ULTRASONIC BOX, APPROX WEIGHT, 50 LBS FOR THE WHOLE ASSEMBLY.
TMV-1	THERMOSTATIC MIXING VALVE	---	---	3/4"	3/4"	LEONARD MODEL 276-LF, POINT OF USE LEAD-FREE THERMOSTATIC MIXING VALVE, MINIMUM 0.25 GPM FLOW, 12 GPM FLOW AT 120 PSI, PRESSURE LOSS, ASSE 1017 AND 1070 LISTED, CA AB-1903 COMPLIANT, SET OUTLET TEMPERATURE TO 110°F, PROVIDE 17"x17" WALL ACCESS PANEL PER SPECIFICATIONS, FINISH BY ARCHITECT.
TP-1	TRAP PRIMER	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. #PR-500 PRIME-RITE, PROVIDE PFP MODEL D-1212PC WALL ACCESS PANEL, PAINT ACCESS DOOR, COLOR BY ARCHITECT.

PLUMBING EQUIPMENT SCHEDULE

TYPE	MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
CP	1	CIRCULATION PUMP	---	---	---	3/4"	BELL & GOSSETT MODEL NBF-9, IN-LINE NET ROTOR CIRCULATION PUMP WITH LEAD-FREE BRONZE BODY, UNION CONNECTION, 5.0 GPM FLOW AT 5 FT TDH, 41 WATT, 1/4 FLA, 115V/1PH ELECTRICAL SERVICE, PUMP CONTROLLED BY BELL & GOSSETT MODEL #AQS-34 AQUASTAT WITH 115/120 VAC, 1PH ELECTRICAL CONNECTION, ADJUST AT TO TURN ON AT 115°F AND TURN OFF AT 125°F, B&G AUTOMATIC TIMER KIT AT C1.
ET	1	EXPANSION TANK	---	---	3/4"	---	BELL & GOSSETT MODEL PT-12, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK, PRE-CHARGED TO 40 PSI WITH 4.4 GALLON TANK CAPACITY, 3.2 GALLON ACCEPTANCE CAPACITY.
GWH	1	GAS WATER HEATER	---	---	1-1/2"	1-1/2"	A.O. SMITH MODEL 87H-199 MK, STORAGE TANK TYPE, 100 GALLON CAPACITY, 261 GPM RECOVERY AT 80°F RISE, 19,800 BTU/H INPUT, 67% THERMAL EFFICIENCY MEETS OR EXCEEDS U.S. DOE, ASHRAE 90.1 AND SCAGM0 RULE 1148.2 REQUIREMENTS, PROVIDE OPTIONAL POWER-DIRECT VENT AND CONCENTRIC VENT KIT TERMINATION, 120VAC/60HZ ELECTRICAL SERVICE, 2.2 F.L. AMPS BLOWER, 4.0 AMPR GONTER, UL LISTED, PROVIDE CONDENSATE NEUTRALIZATION KIT, 1,400 LB OPERATING WEIGHT.

KITCHEN EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	S or W	IND. WASTE	V	CW	HW	GAS (MBH)
8	EVAPORATOR COIL CONDENSATE	---	3/4"	---	---	---	---
12	EVAPORATOR COIL CONDENSATE	---	3/4"	---	---	---	---
18	THREE-COMP SINK	---	2"	---	3/4"	3/4"	---
23	HAND SINK	2"	---	2"	3/4"	3/4"	---
24	WALL MOUNTED FILL FAUCET	---	---	---	1/2"	1/2"	---
25	6-OPEN BURNER	---	---	---	---	---	210
26	COMBI-OVEN	---	2"	---	(2) 3/4"	---	304
27	CONVECTION OVEN	---	---	---	---	---	90
37	TWO-COMP SINK	---	2"	---	3/4"	3/4"	---
45	HAND SINK	2"	---	2"	3/4"	3/4"	---

NOTES:
 1. COORDINATE CLOSELY WITH KITCHEN EQUIPMENT COMPANY FOR EQUIPMENT LOCATIONS, CONNECTION SIZES AND REQUIREMENTS.
 2. SEE KITCHEN EQUIPMENT PLANS FOR EQUIPMENT SCHEDULE AND REQUIREMENTS.
 3. PROVIDE INDIVIDUAL SHUT-OFF VALVES AT ALL CW, HW & GAS CONNECTIONS.
 4. PROVIDE QUICK DISCONNECT WITH CABLE RESTRAINT FOR ALL GAS EQUIPMENT CONNECTIONS PER KITCHEN EQUIPMENT PLANS.
 5. COORDINATE WITH KITCHEN EQUIPMENT PLUMBING PLAN FOR PLUMBING ROUGH-IN DIMENSIONS.



REGISTERED PROFESSIONAL ENGINEER
 RYAN E. NIV
 M 41413
 REN 03-31-25
 MECHANICAL
 STATE OF CALIFORNIA



REGISTERED ARCHITECT
 F. CLARKE
 No. 6-17306
 Exp. 10-31-25
 STATE OF CALIFORNIA

AGENCY APPROVAL
 File No: *****

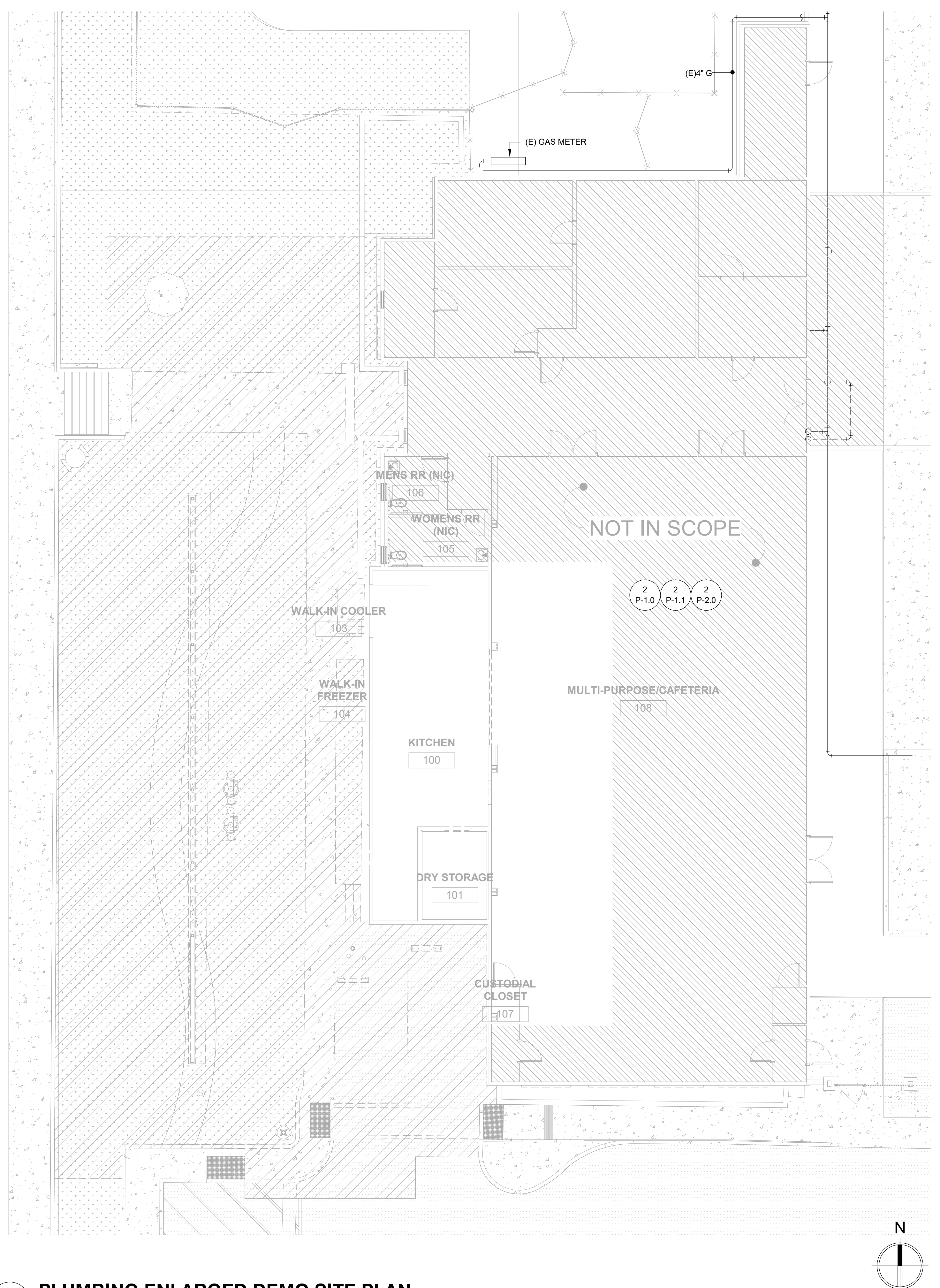
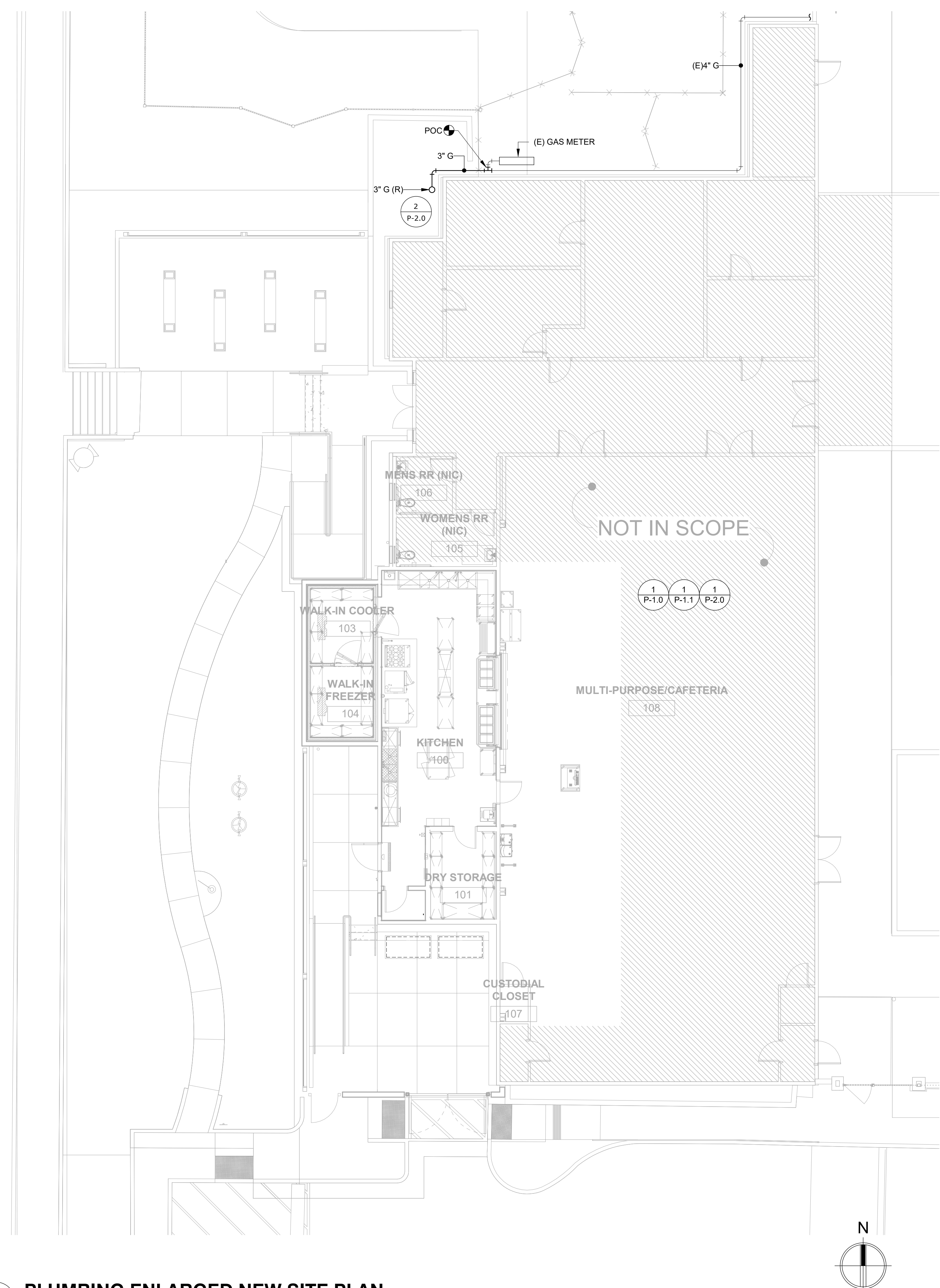


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RUHNAU CLARKE ARCHITECTS

KITCHEN UPGRADES AT JOYCE E.S.

KEY NOTES



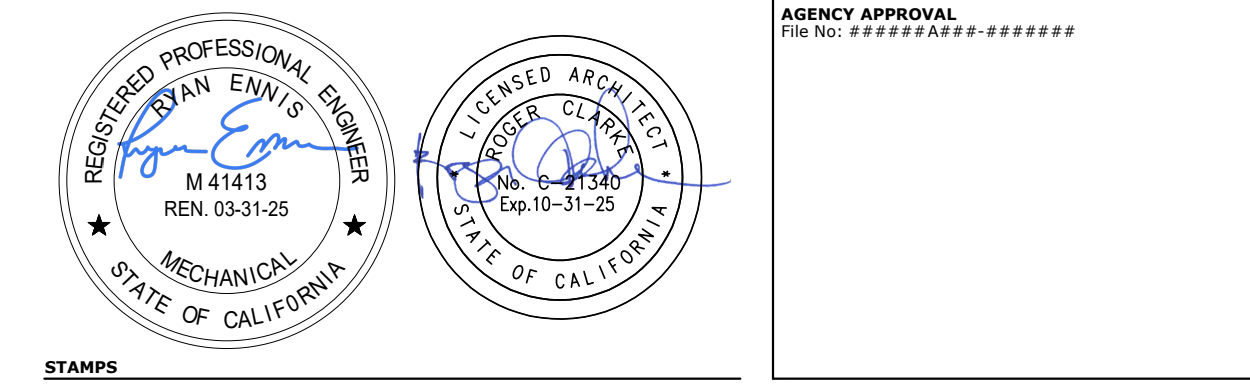
2 PLUMBING ENLARGED NEW SITE PLAN
SCALE: 1/8" = 1'-0"

1 PLUMBING ENLARGED DEMO SITE PLAN
SCALE: 1/8" = 1'-0"

FOR REFERENCE ONLY

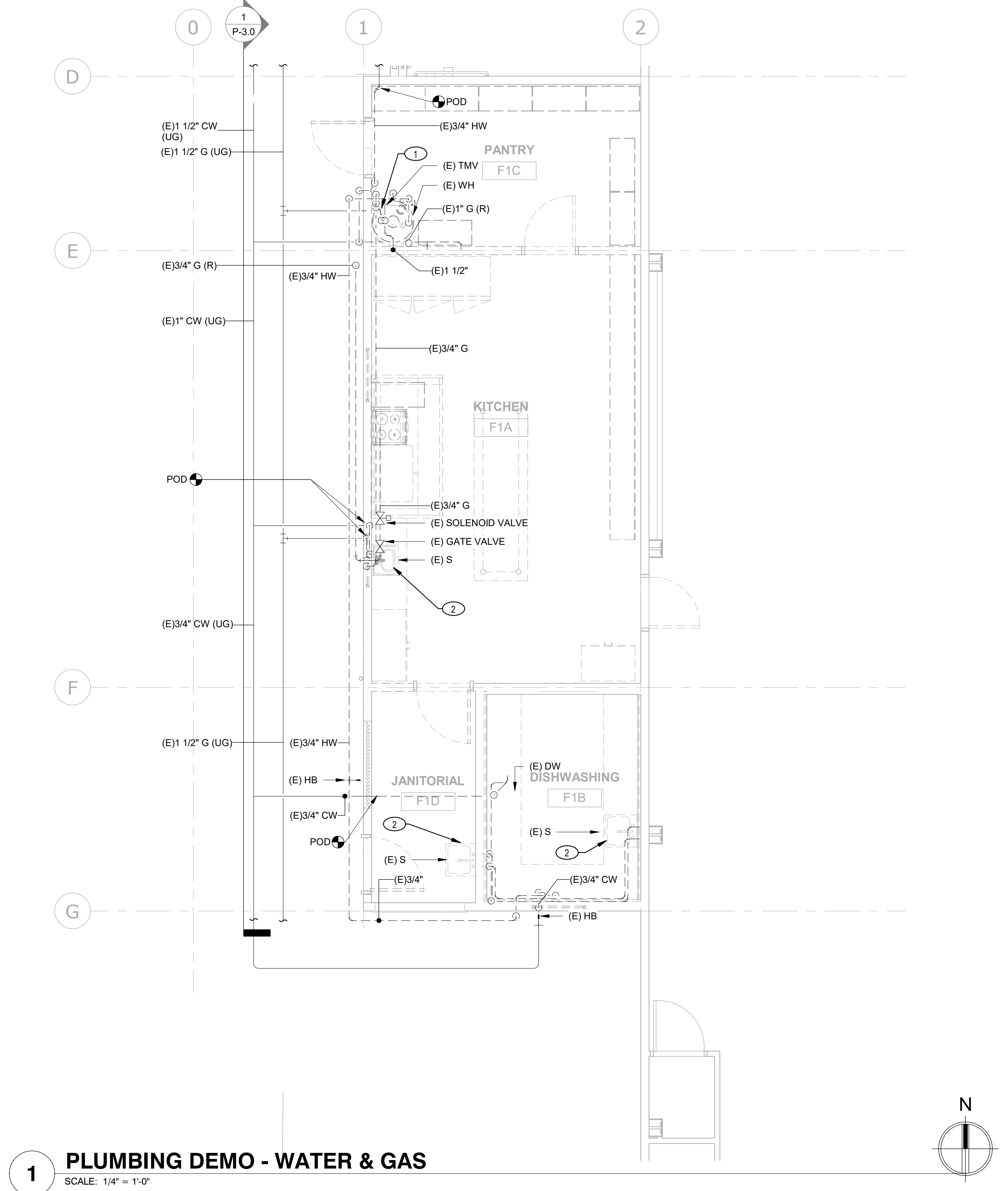
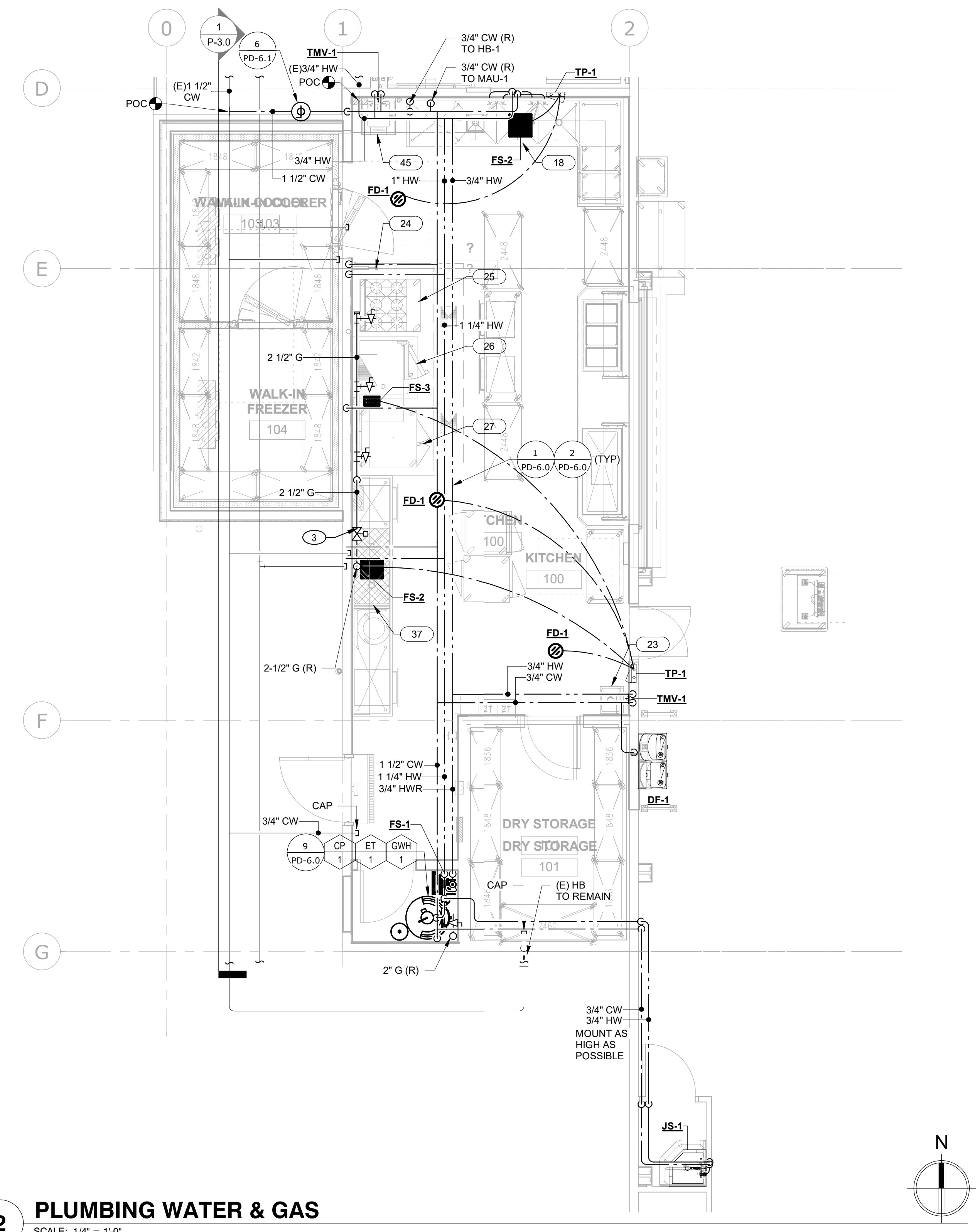
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RUHNAU CLARKE ARCHITECTS



- KEY NOTES**
- REMOVE EXISTING WATER HEATER, FLUE AND RELATED APPURTENANCES. REMOVE RELATED PIPING BACK TO POD.
 - REMOVE EXISTING FIXTURE AND RELATED PIPING SHOWN HATCHED BACK TO THE POD.
 - GAS SOLENOID SHUT-OFF VALVE CONNECTED TO HOOD FIRE SUPPRESSION. COORDINATE WITH KITCHEN EQUIPMENT PLANS.

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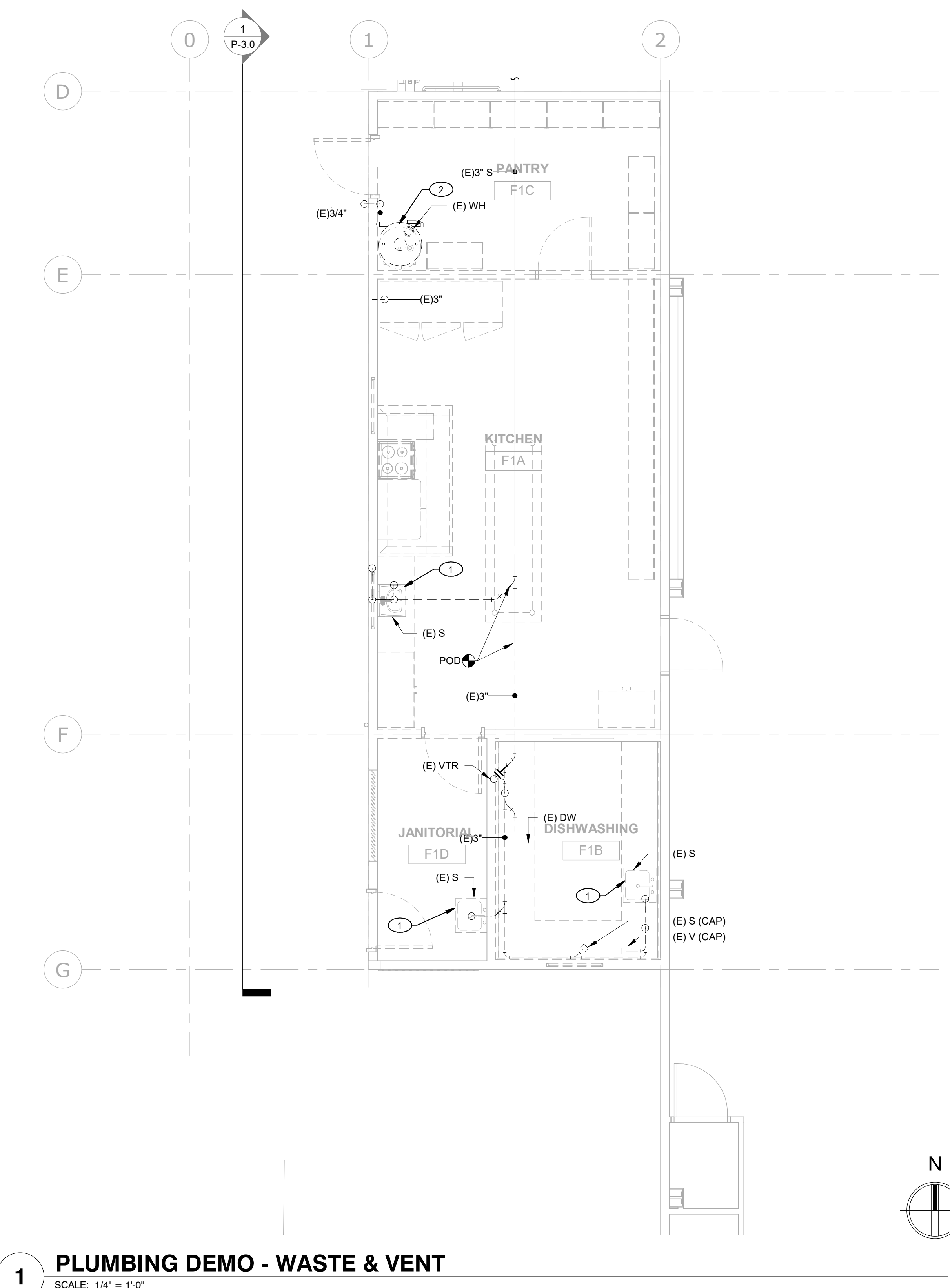
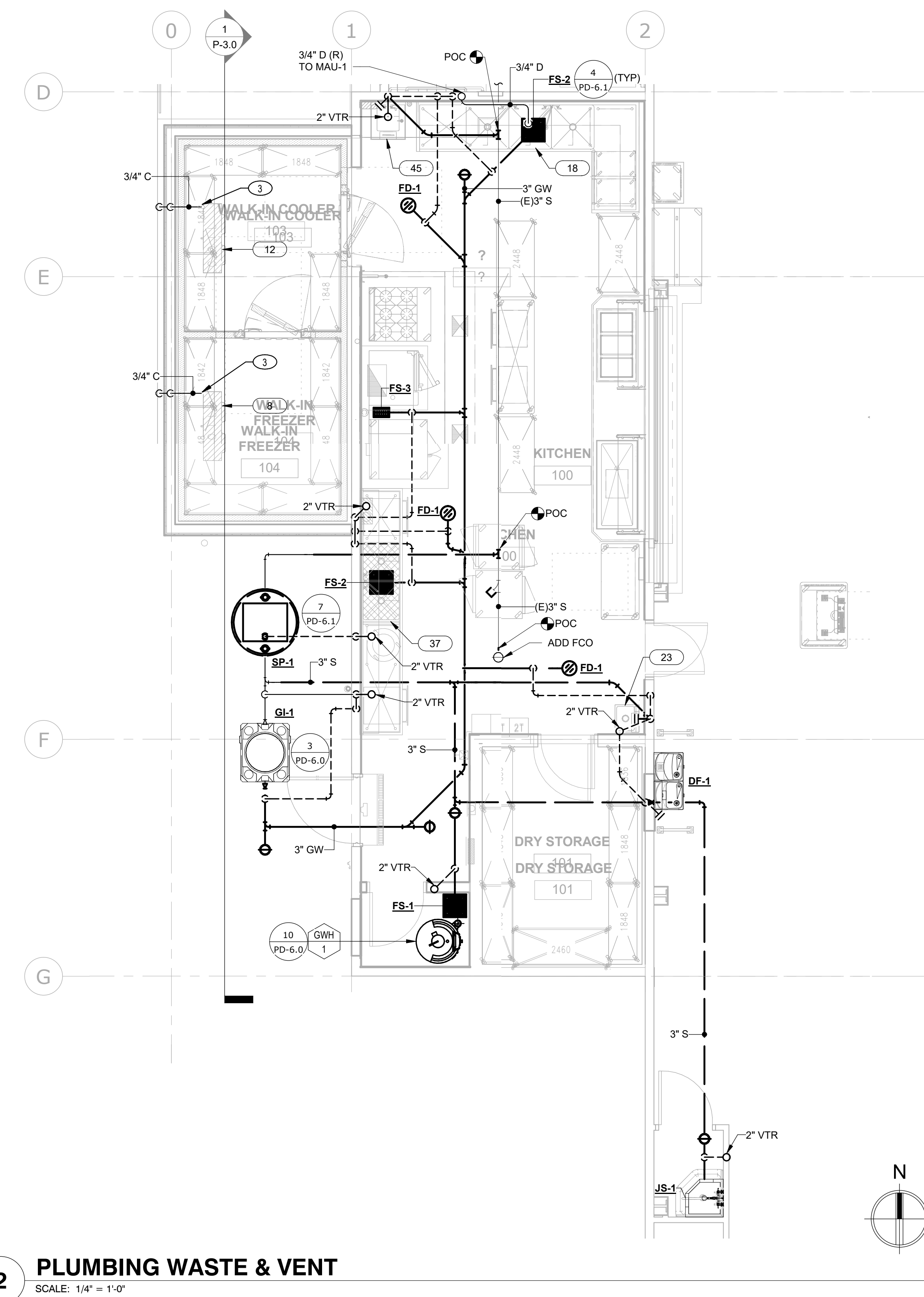
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KITCHEN UPGRADES AT JOYCE E.S.
 F.C. JOYCE ELEMENTARY SEXTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLUMBING DEMO & NEW WATER & GAS FLOOR PLANS

P-1.0

KITCHEN UPGRADES AT JOYCE E.S.:



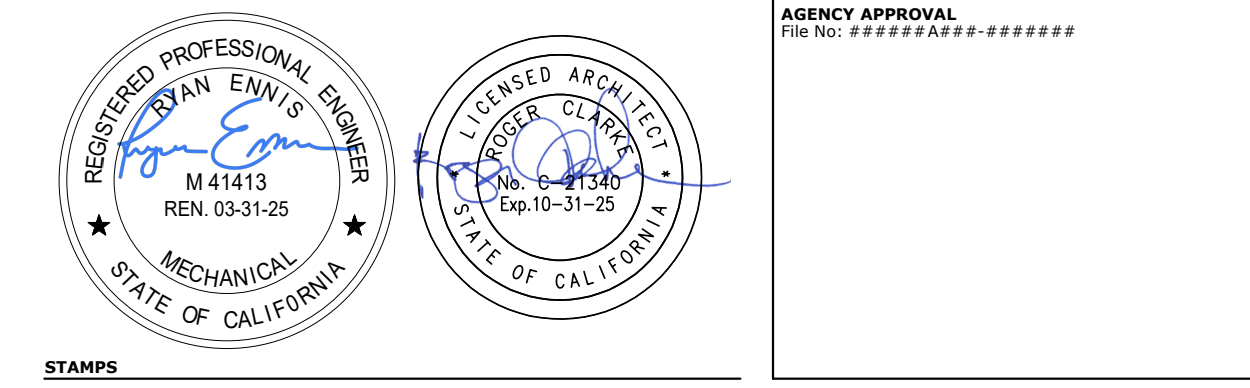
- KEY NOTES**
- 1 REMOVE EXISTING FIXTURE AND RELATED PIPING SHOWN HATCHED BACK TO THE POD.
 - 2 REMOVE EXISTING WATER HEATER, FLUE AND RELATED APPURTENANCES. REMOVE RELATED PIPING BACK TO POD.
 - 3 3/4" CONDENSATE FROM EVAPORATOR COIL DROP DOWN AND ELBOW DOWN AT +8" ABOVE PLANTER.

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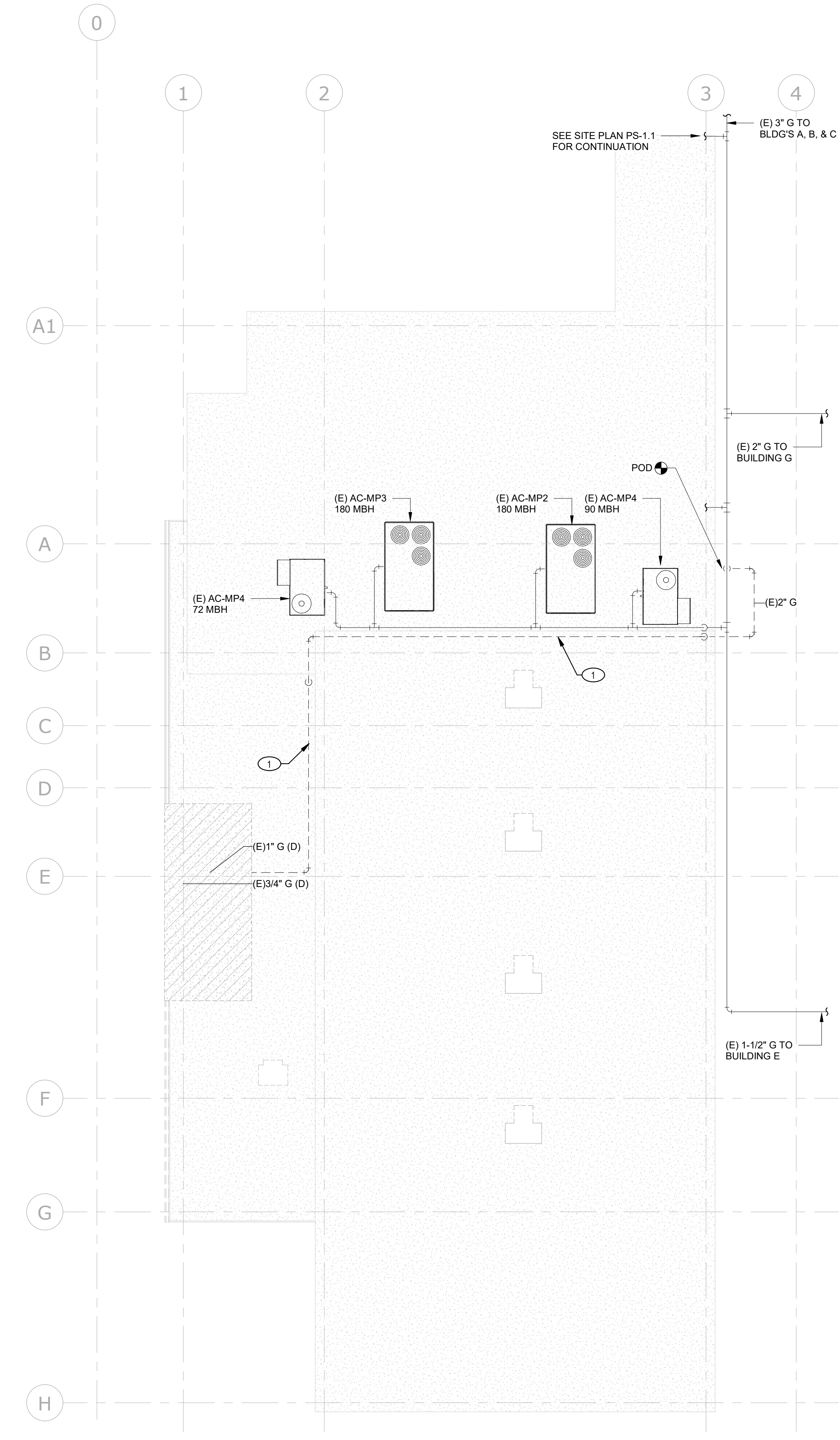
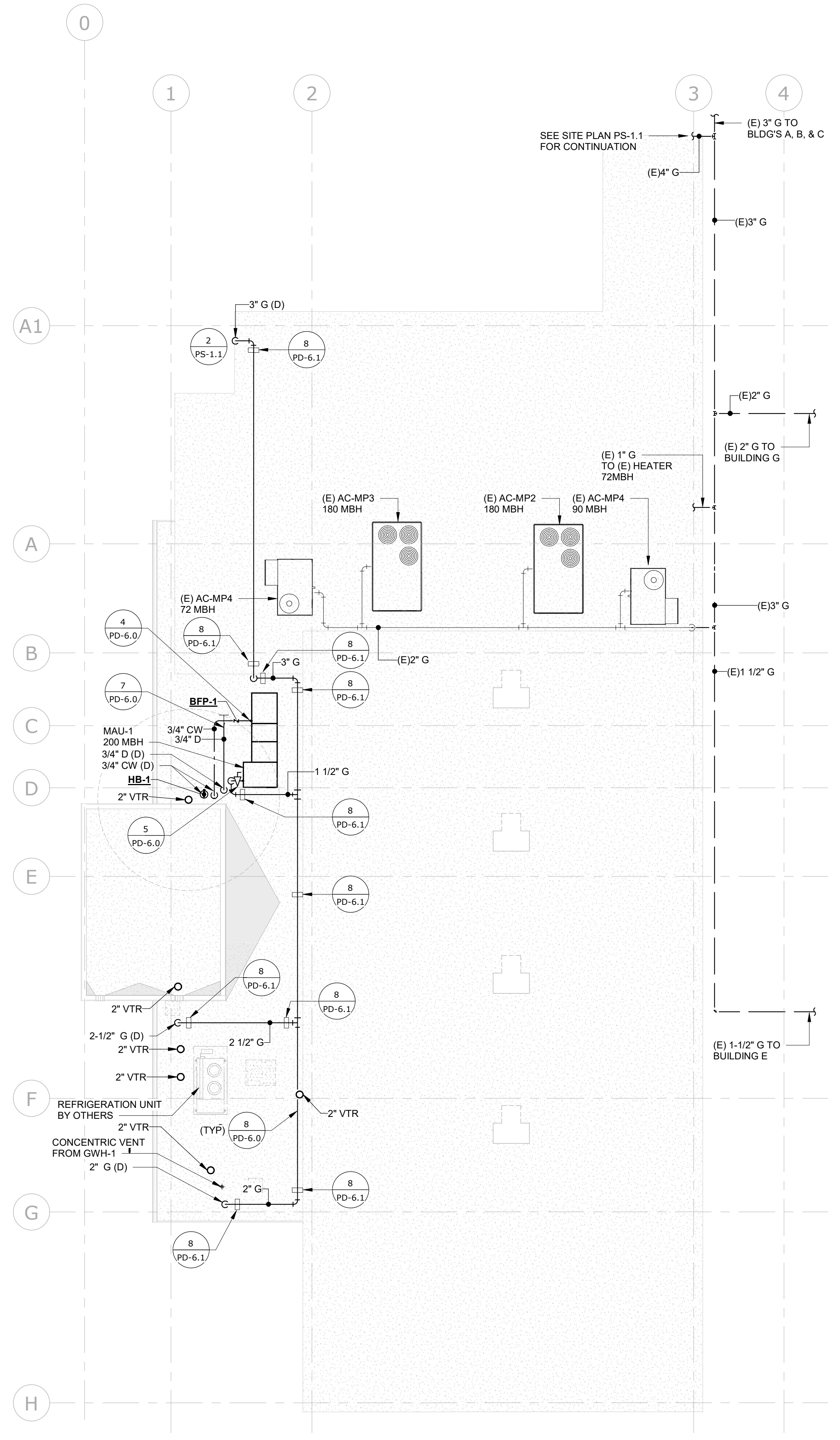


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RUHNAU CLARKE ARCHITECTS

KEY NOTES

- 1 REMOVE EXISTING GAS SHOWN HATCHED BACK TO POD AND CAPPED.



KEY NOTES

- 1 REMOVE EXISTING GAS SHOWN HATCHED BACK TO POD AND CAPPED.

FOR REFERENCE ONLY

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

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

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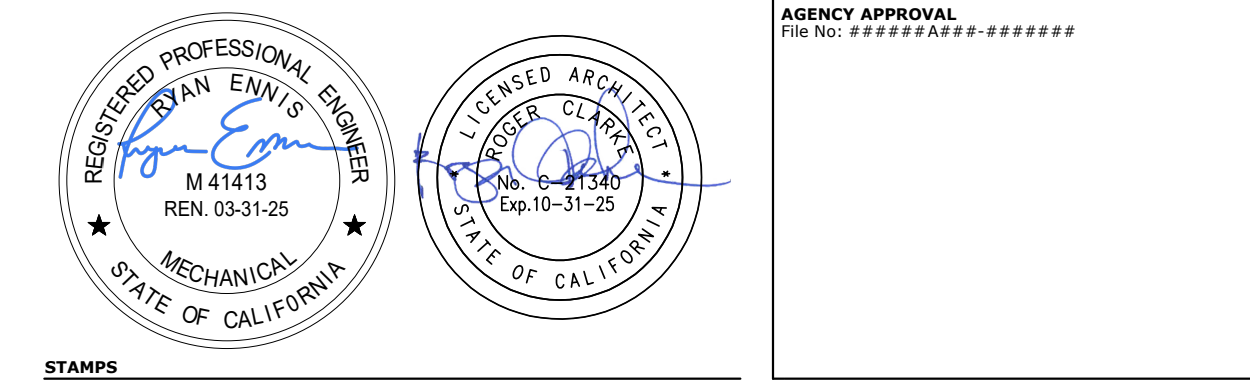
KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENSARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLUMBING DEMO & NEW ROOF PLANS

P-2.0

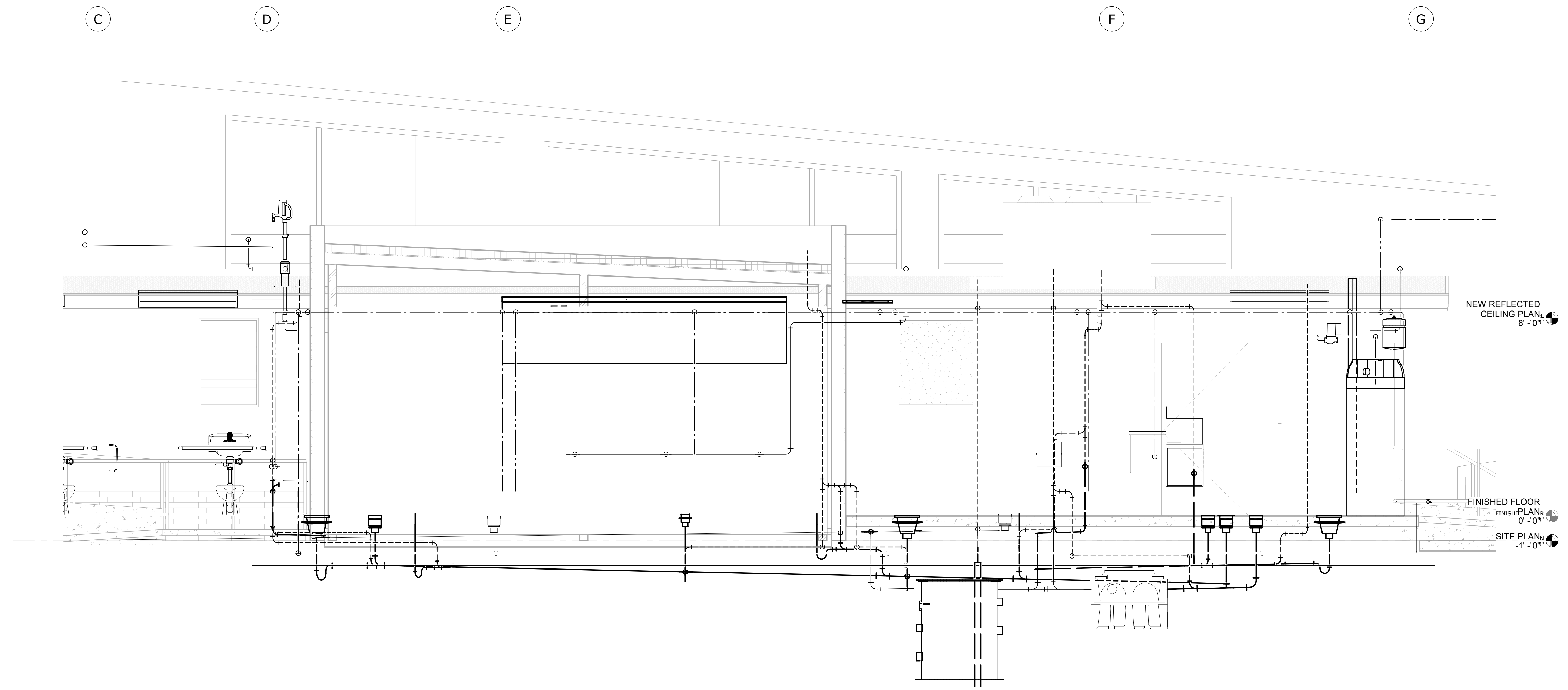
KITCHEN UPGRADES AT JOYCE E.S.:



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 ARCHITECTS

KEY NOTES



PLUMBING SECTION NTS 1

FOR REFERENCE ONLY

PROJECT No. :X-XX-XX
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KITCHEN UPGRADES AT JOYCE E.S.

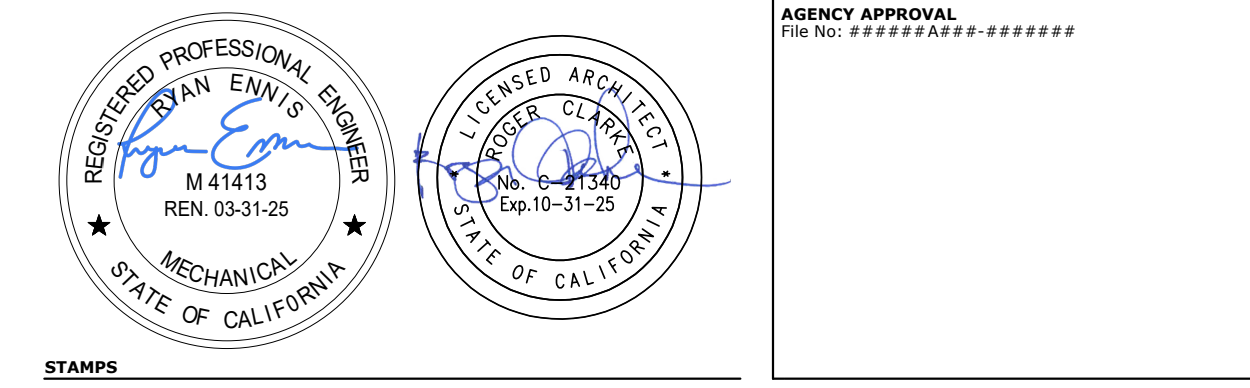
F.C. JOYCE ELEMENTARY SENIARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLUMBING SECTIONS

P-3.0

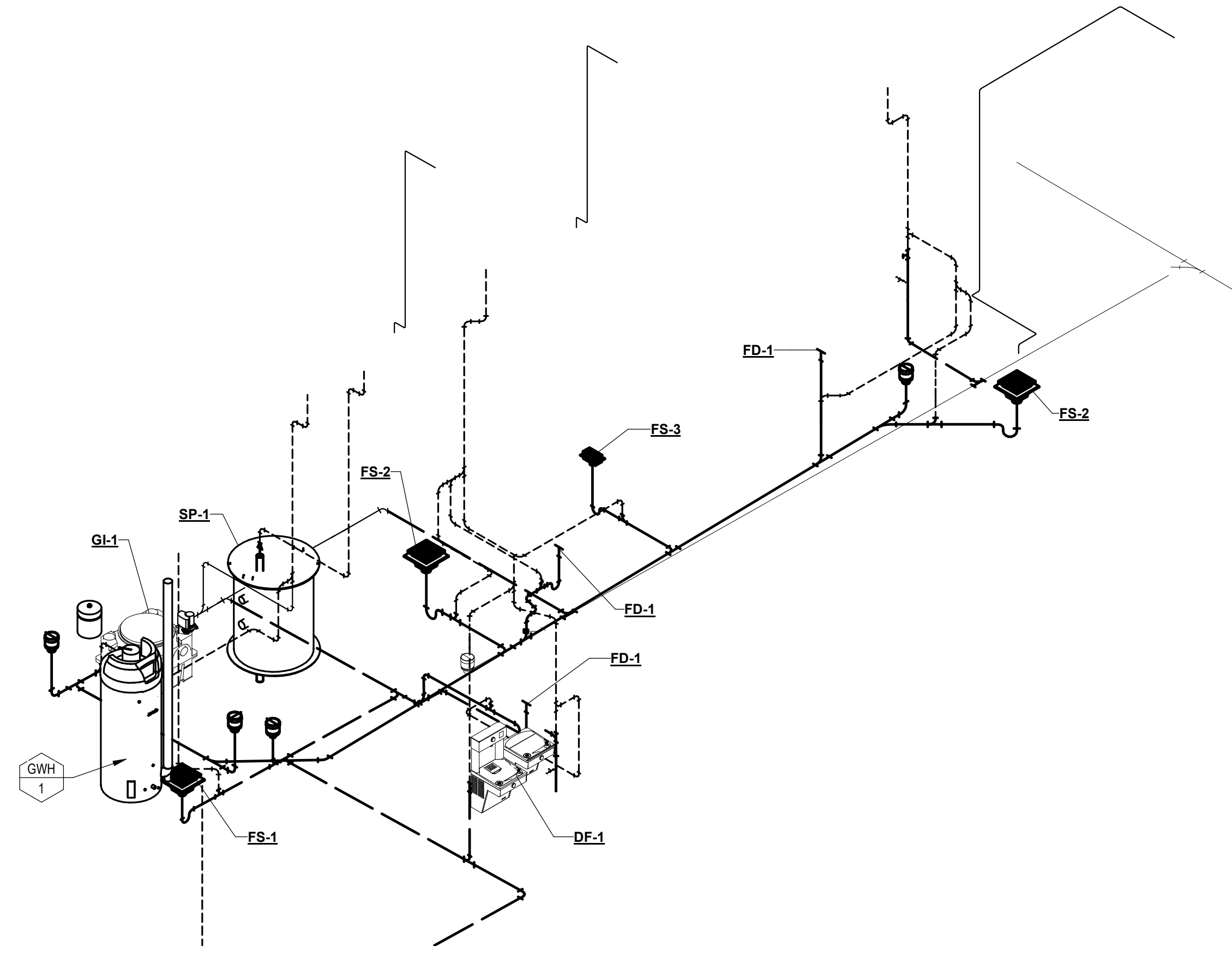
KITCHEN UPGRADES AT JOYCE E.S.:

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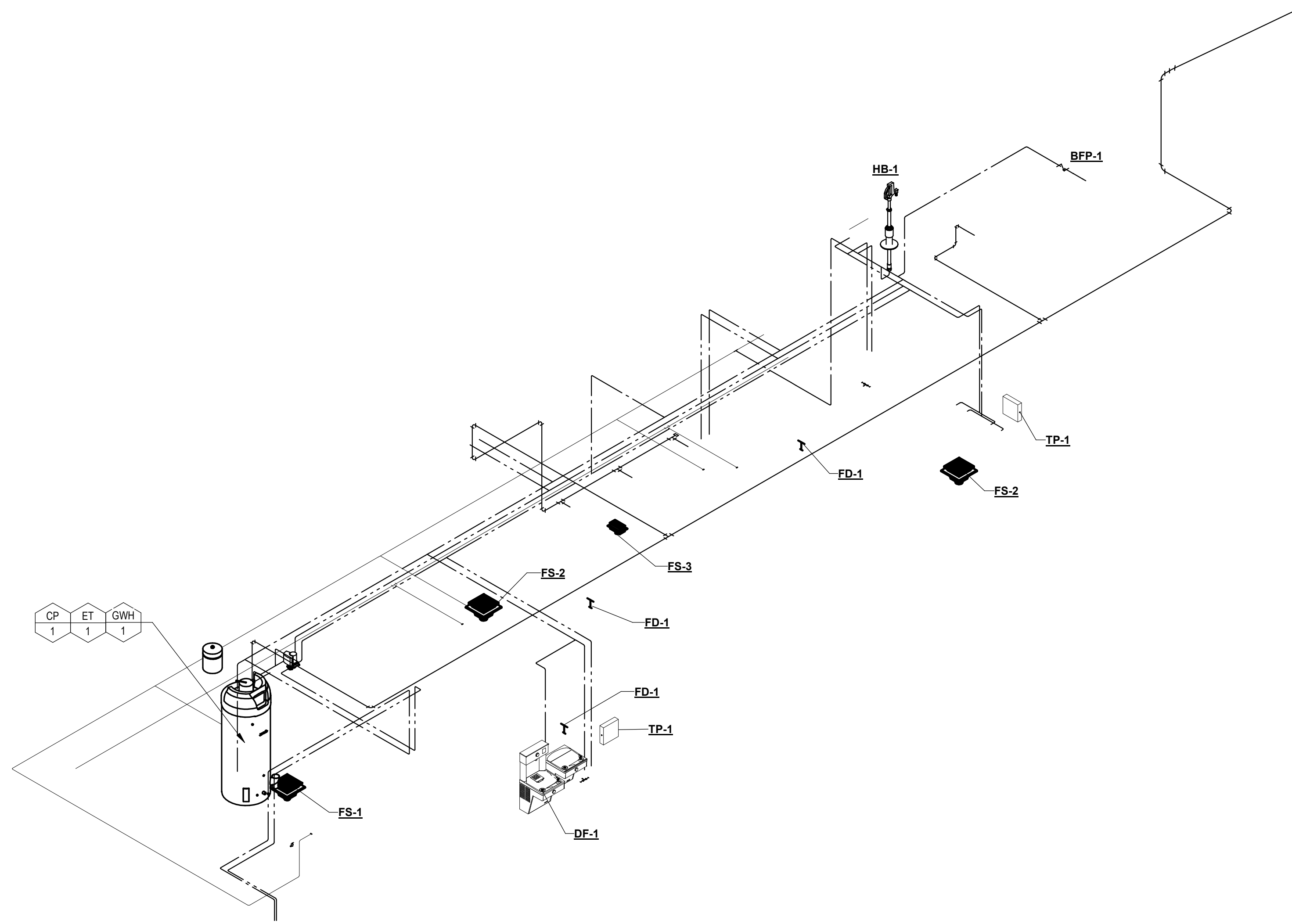


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PLUMBING ISOMETRIC - WASTE AND VENT NTS 1



PLUMBING ISOMETRIC - WATER AND GAS NTS 2

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KITCHEN UPGRADES AT JOYCE E.S.

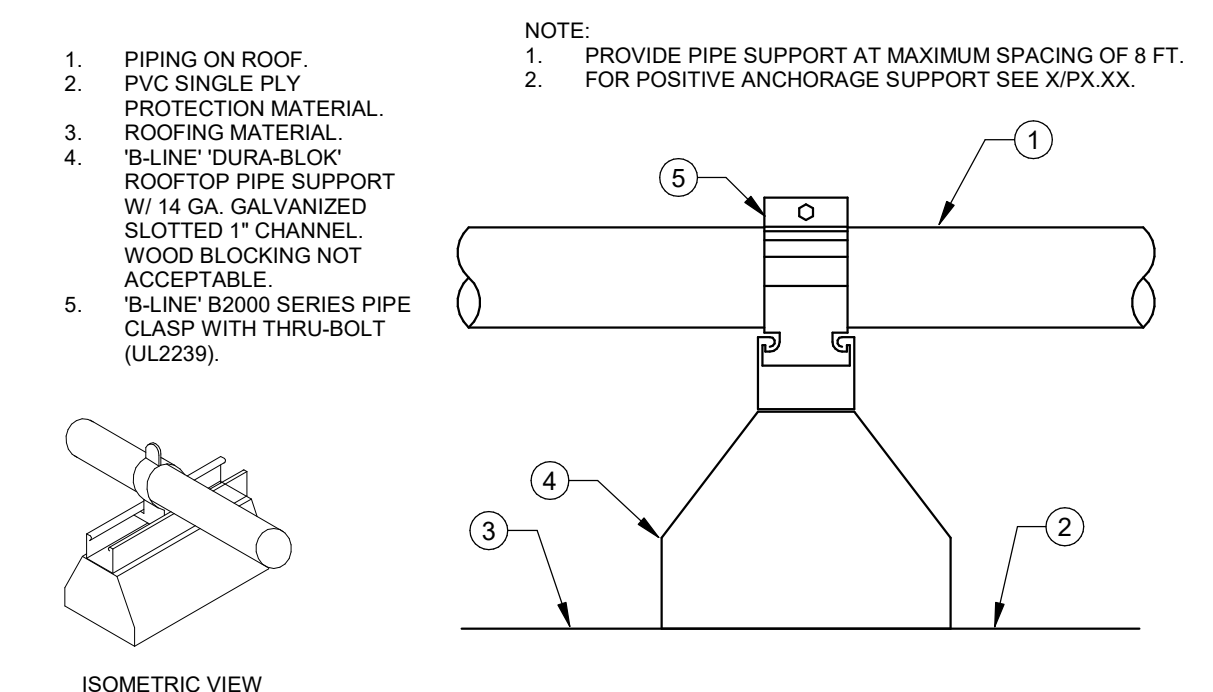
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PLUMBING
 ISOMETRICS

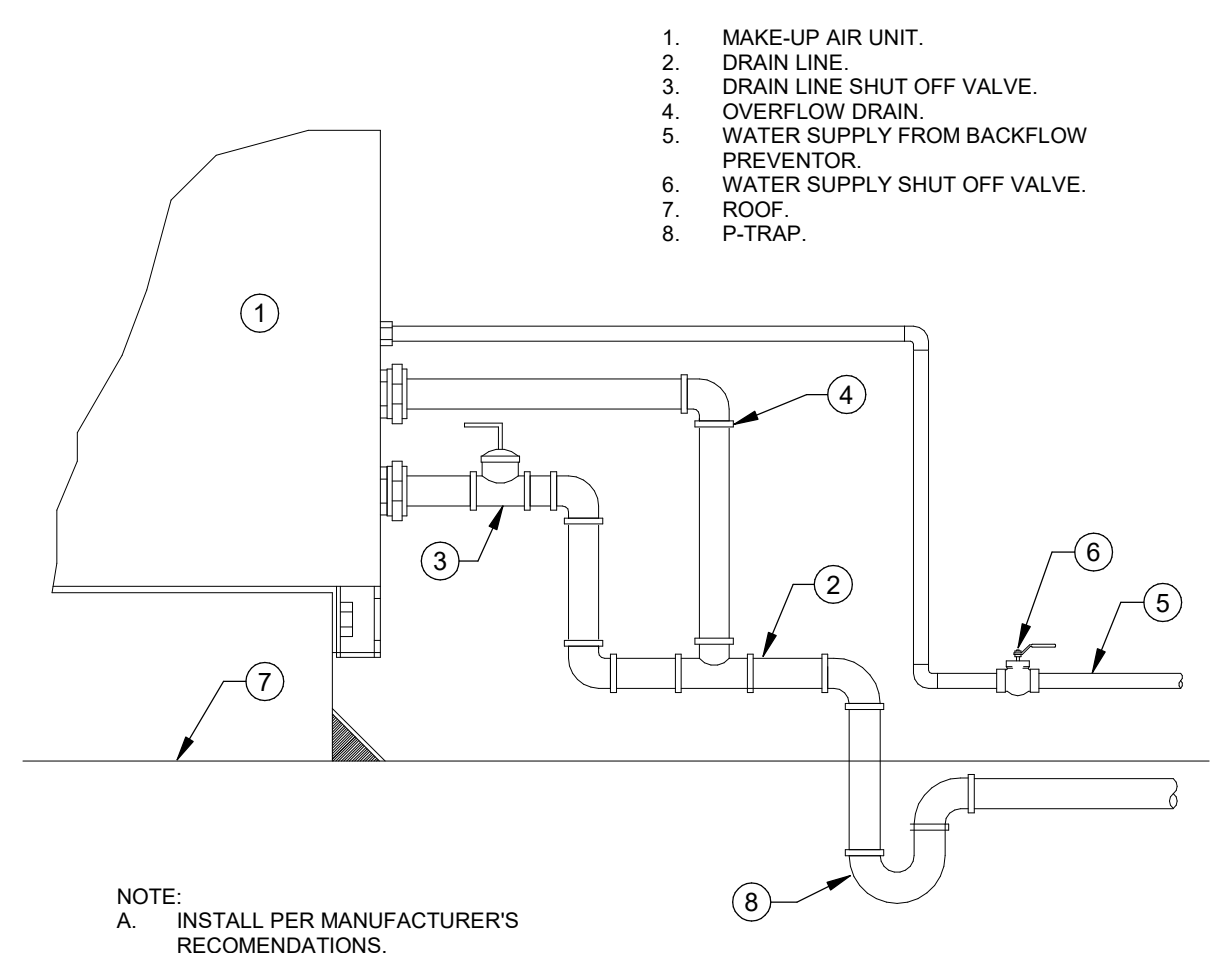
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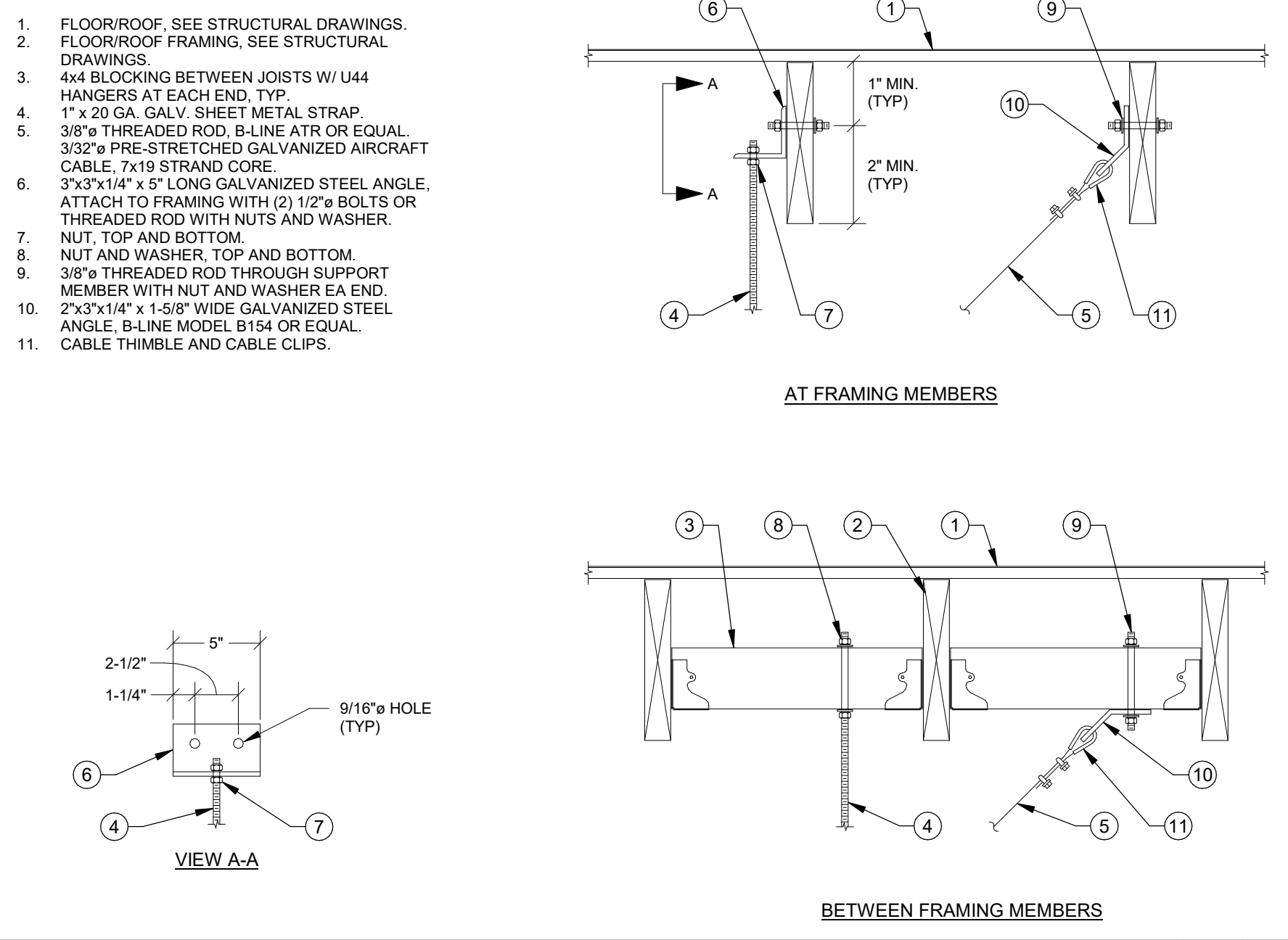
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INTERMEDIATE GAS PIPE SUPPORT ON ROOF NTS 8

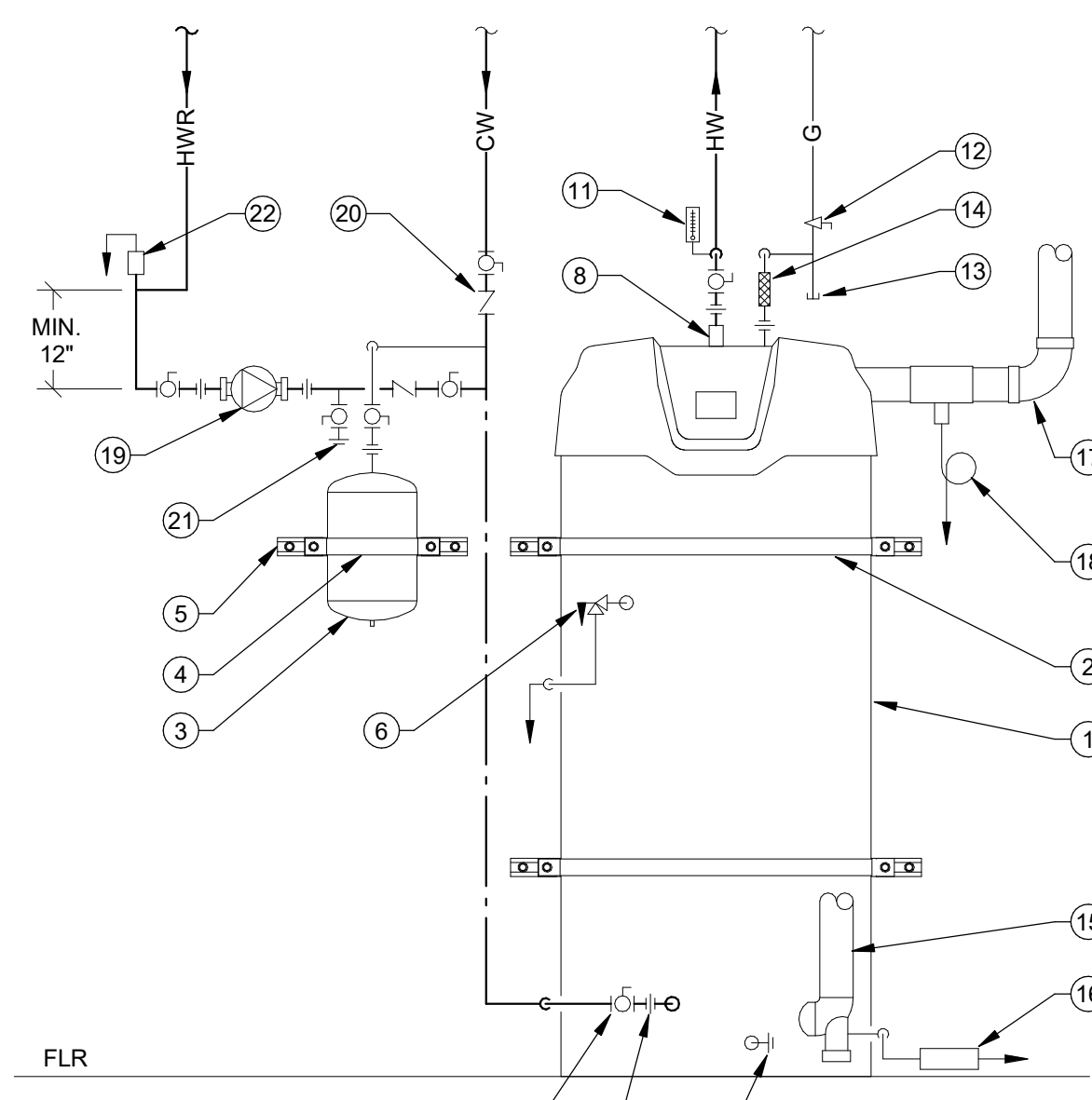


MAKE-UP AIR UNIT WATER & DRAIN CONNECTION NTS 4

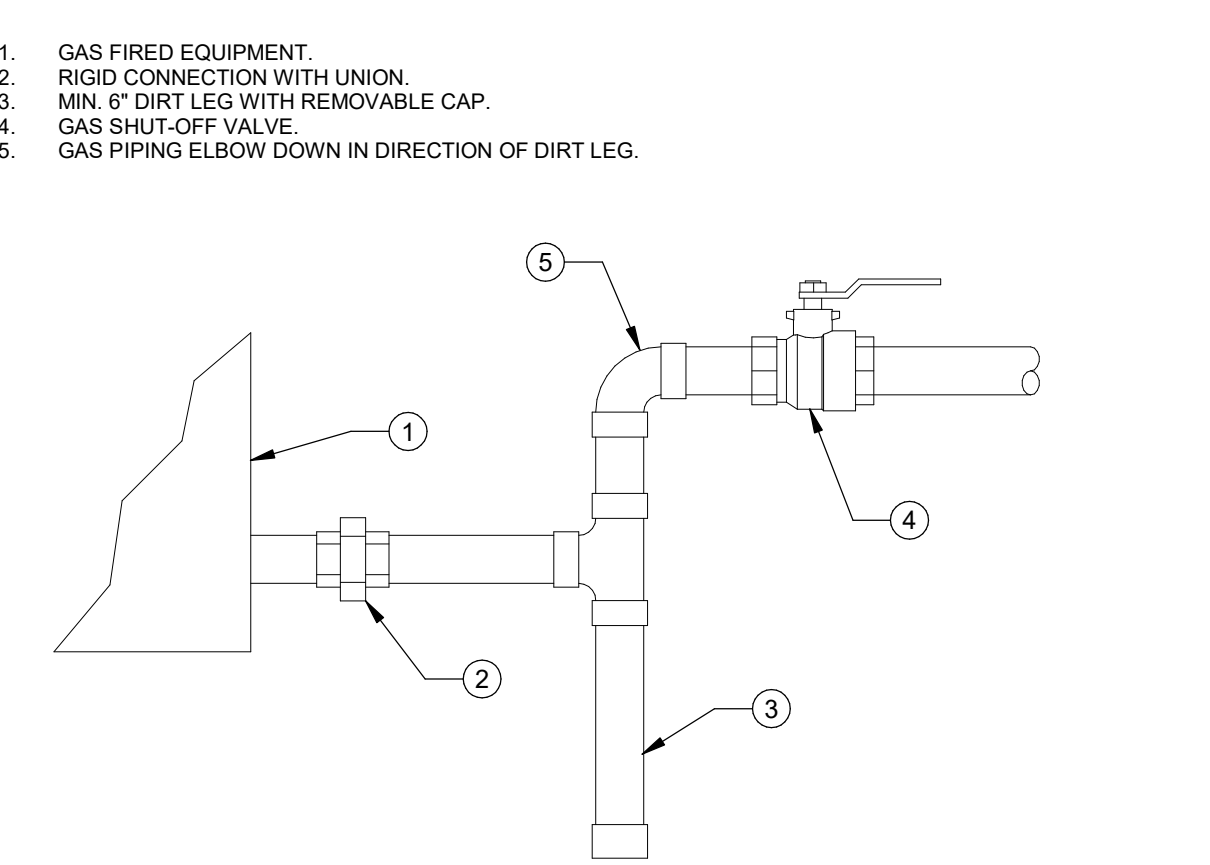


HANGER UPPER ATTACHMENTS NTS 1

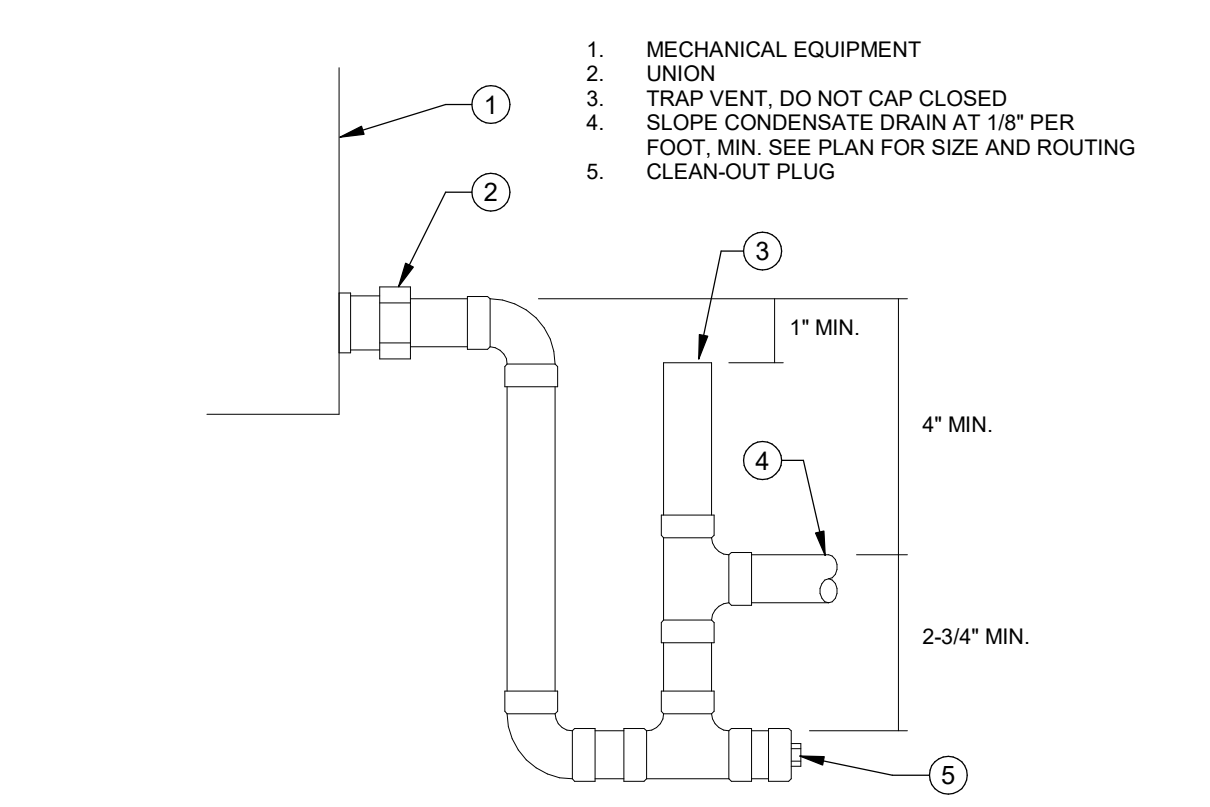
- 1. WATER HEATER, SEE PLUMBING SCHEDULE
2. (2) 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAPS AROUND WATER HEATER, (1) EACH AT UPPER AND LOWER THIRD OF WATER HEATER, SECURE TO UNISTRUT CHANNEL WITH 3/8" BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
3. EXPANSION TANK, SEE PLUMBING SCHEDULE
4. 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAP AROUND EXPANSION TANK, SECURE TO UNISTRUT CHANNEL WITH 3/8" BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
5. 1/2"x1-5/8"x1/2 GA. UNISTRUT CHANNEL, B-LINE B22 OR EQUAL, TYP. SECURE TO WALL STUDS WITH (2) 1/4" LAG SCREWS WITH MIN. 3" EMBED, (1) EACH END
6. ASME TEMPERATURE & PRESSURE RELIEF VALVE, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
7. WATER HEATER DRAIN VALVE
8. DIELECTRIC TRAP NIPPLE AT WATER HEATER HW & CW CONNECTIONS ISOLATION VALVE, TYP
9. DIELECTRIC UNION, TYP
10. LEAD-FREE THERMOWELL THERMOMETER, TERREX BX SERIES, OR EQUAL
11. GAS COCK
12. MIN. 3" LONG SEDIMENT TRAP (DIRT LEG) WITH CAP
13. CSA LISTED FLEXIBLE GAS APPLIANCE CONNECTOR, METRAFLX OR EQUAL
14. FLUE VENT TO APPROVED TERMINATION LOCATION AT BUILDING EXTERIOR, INSTALL PER MFG'S RECOMMENDATIONS
15. FLUE CONDENSATE CONNECTION, PROVIDE CONDENSATE PIPING WITH ACID NEUTRALIZER AND TERMINATE AT APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
16. COMBUSTION AIR INTAKE VENT TO APPROVED TERMINATION LOCATION AT BUILDING EXTERIOR, INSTALL PER MFG'S RECOMMENDATIONS
17. COMBUSTION AIR CONDENSATE CONNECTION TEE WHERE REQUIRED BY MFG, PROVIDE CONDENSATE PIPING WITH LOOPED TRAP AND TERMINATE AT APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
18. RECIRCULATION PUMP, SEE PLUMBING SCHEDULE
19. CHECK VALVE, TYP
20. HOSE BIBB WITH ISOLATION VALVE USED FOR BLEEDING AIR OUT OF PUMP FOR SYSTEM PRIMING PER CALIFORNIA ENERGY CODE
21. LEAD-FREE AUTOMATIC AIR VENT, B&G MODEL 87 OR EQUAL, INSTALL AT TOP OF MIN. 12" HIGH VERTICAL RISER AND NO MORE THAN 4FT FROM RECIRCULATION PUMP PER CEC, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP (AUTOMATIC AIR VENT MAY BE OMITTED WHERE RECIRCULATION PUMP IS INSTALLED IN VERTICAL ORIENTATION)



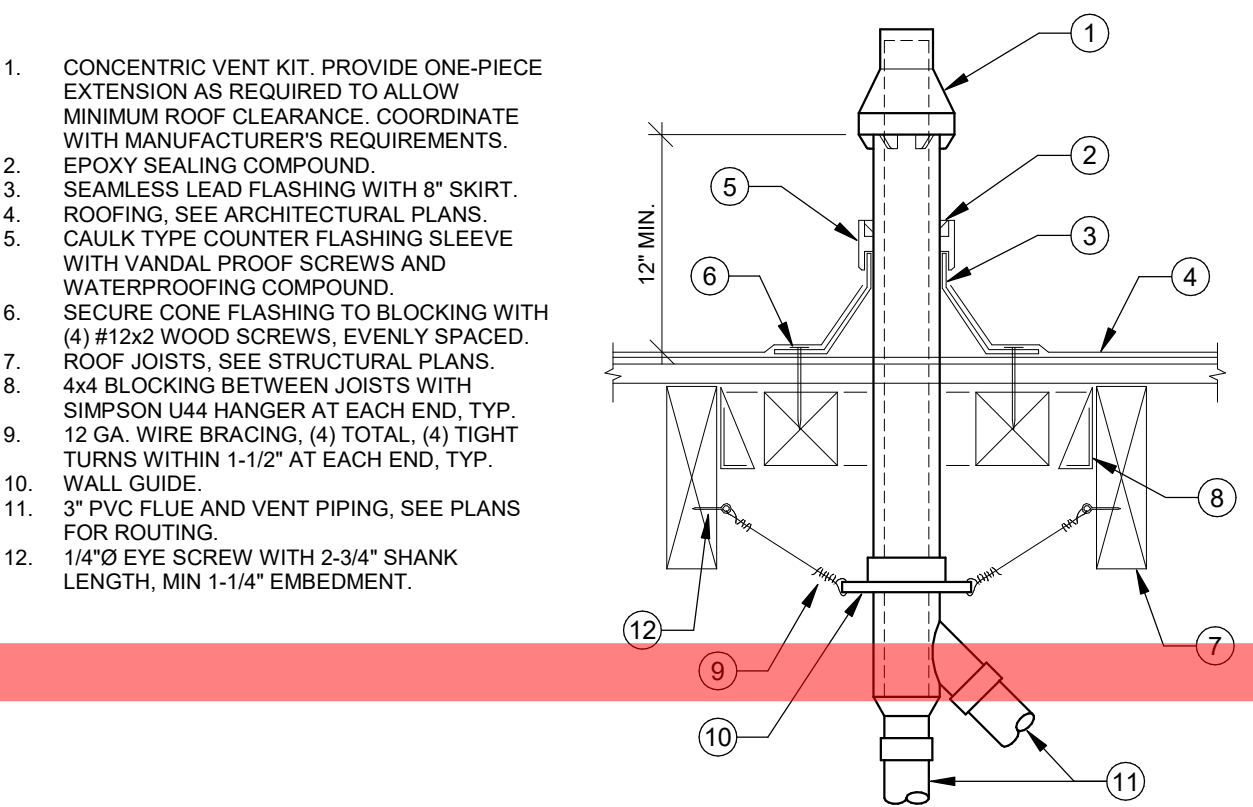
GAS WATER HEATER DETAIL NTS 9



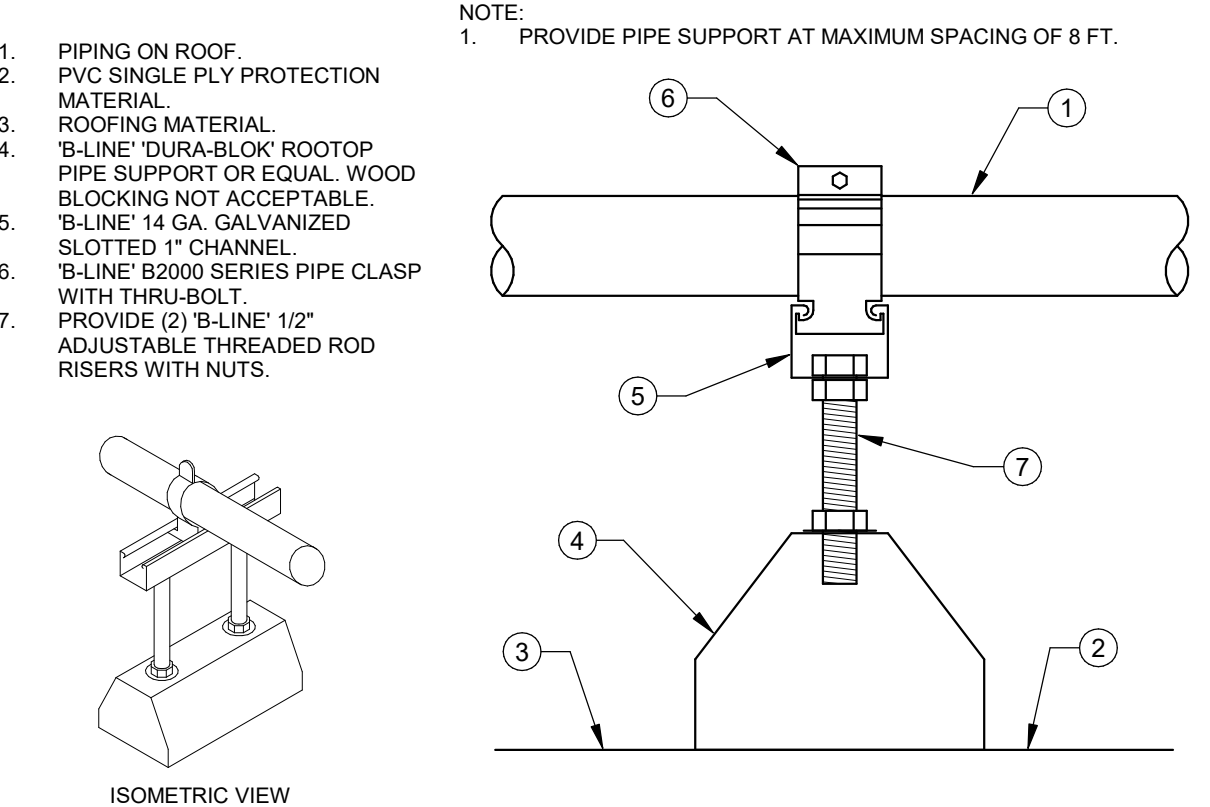
GAS APPLIANCE CONNECTION DETAIL NTS 5



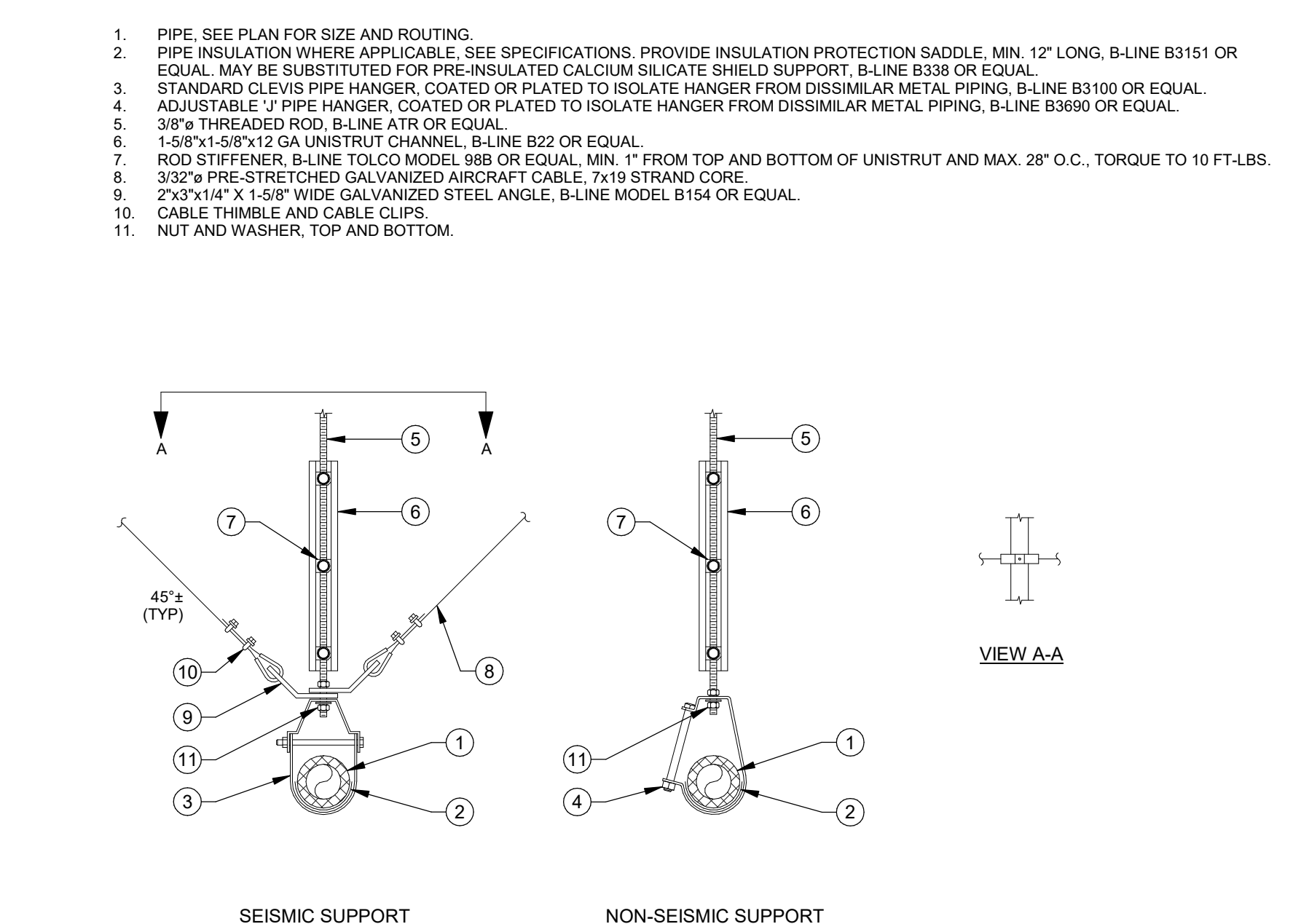
CONDENSATE DRAIN CONNECTION NTS 6



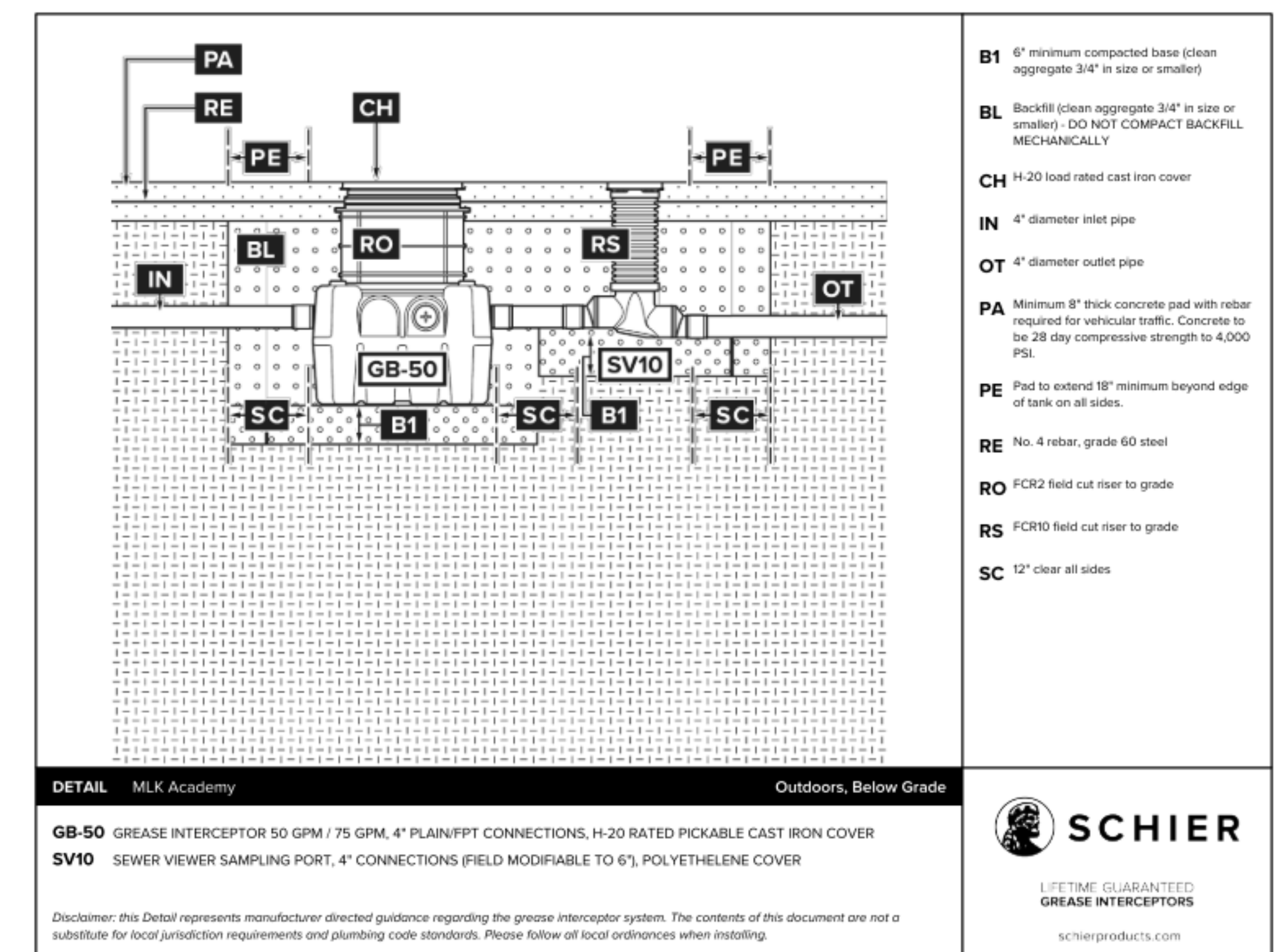
CONCENTRIC VENT THROUGH ROOF NTS 10



CONDENSATE PIPE SUPPORT ON ROOF NTS 7

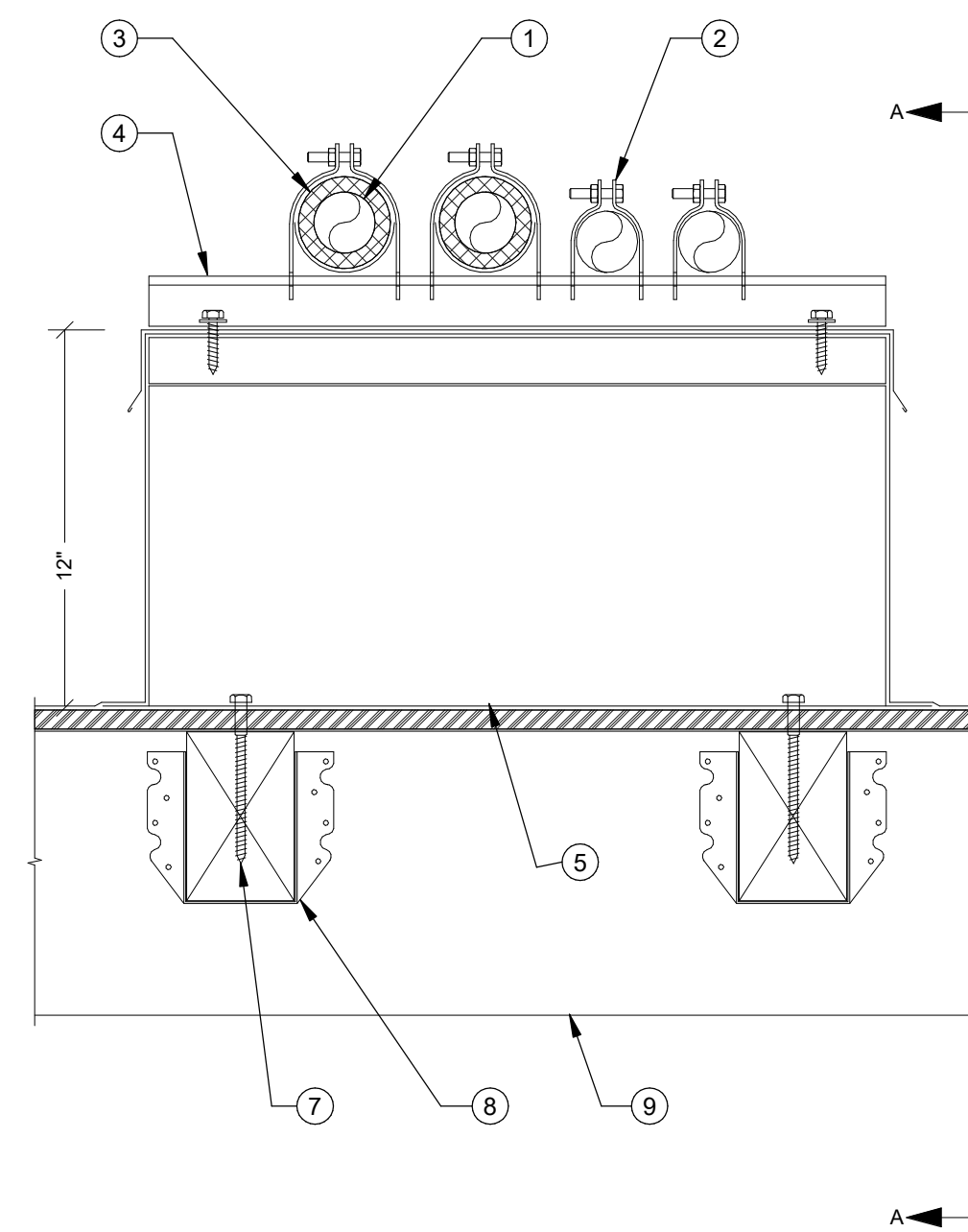


PIPE HANGER DETAIL NTS 2



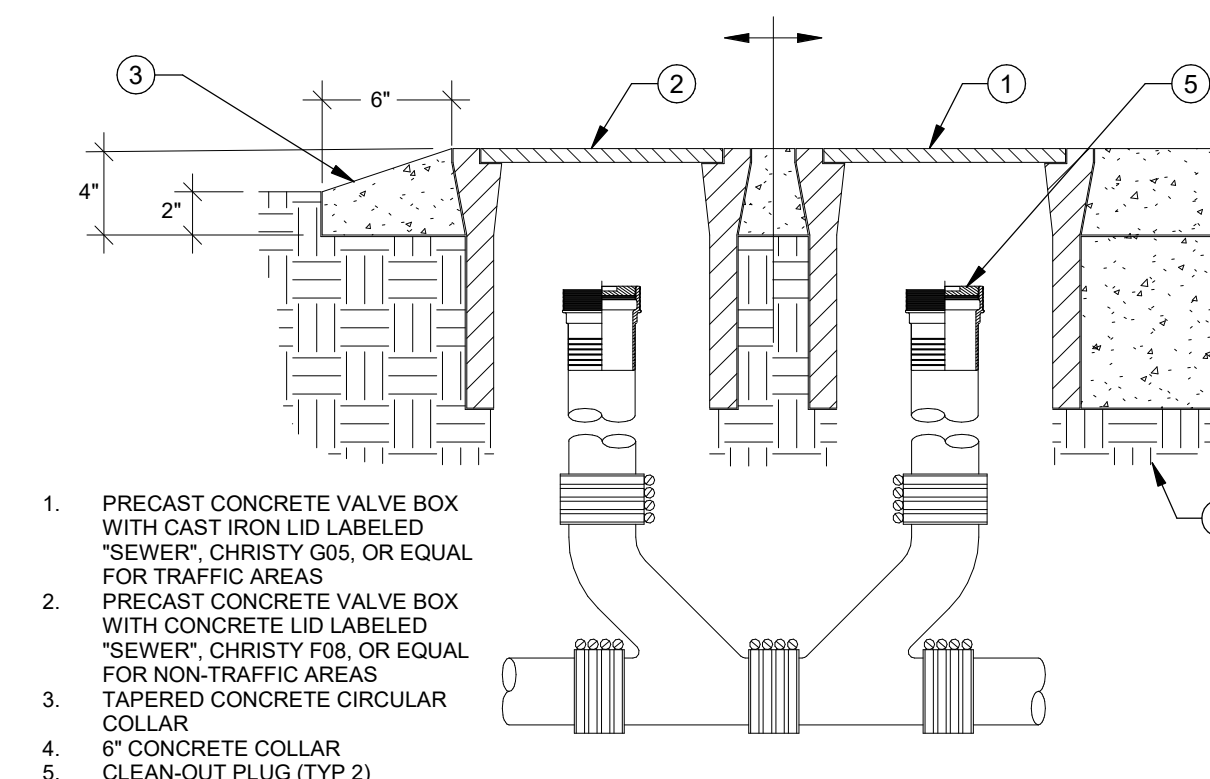
GREASE INTERCEPTOR NTS 3

- PIPE, SEE PLAN FOR SIZE AND ROUTING
- PIPE CLAMP, B-LINE SERIES B3000 OR EQUAL
- PIPE INSULATION WHERE APPLICABLE, SEE SPECIFICATIONS, PROVIDE INSULATION PROTECTION SADDLE, MIN. 12" LONG, B-LINE B3101 OR EQUAL, MAY BE SUBSTITUTED FOR PRE-INSULATED CALCIUM SILICATE SHIELD SUPPORT, B-LINE B338 OR EQUAL
- 1-1/2" x 1-1/8" x 12 GA UNISTRUT CHANNEL, B-LINE V22 OR EQUAL, SECURE TO CURB WITH (2) 3/8" WOOD SCREWS WITH WASHER AT EACH END, MIN. 1" EMBED
- 12" HIGH PREFAB 18 GA. GALV. STEEL SUPPORT CURB WITH 1-1/2" PRESSURE TREATED WOOD NAILER AND SHEET METAL, COUNTERSINKING, PATE MODEL ES-2 OR EQUAL
- GAINT STRIP, BOTH LONG SIDES OF CURB
- 3/8" X 1/4" SCREW WITH MIN. 4" EMBED INTO BLOCKING, MAX. 24" O.C. MAX. 2' FROM ENDS, MIN. (2) EACH SIDE OF CURB
- 4x6 BLOCKING BETWEEN JOISTS WITH LUG HANGERS EACH END, ROOF FRAMING, SEE STRUCTURAL.

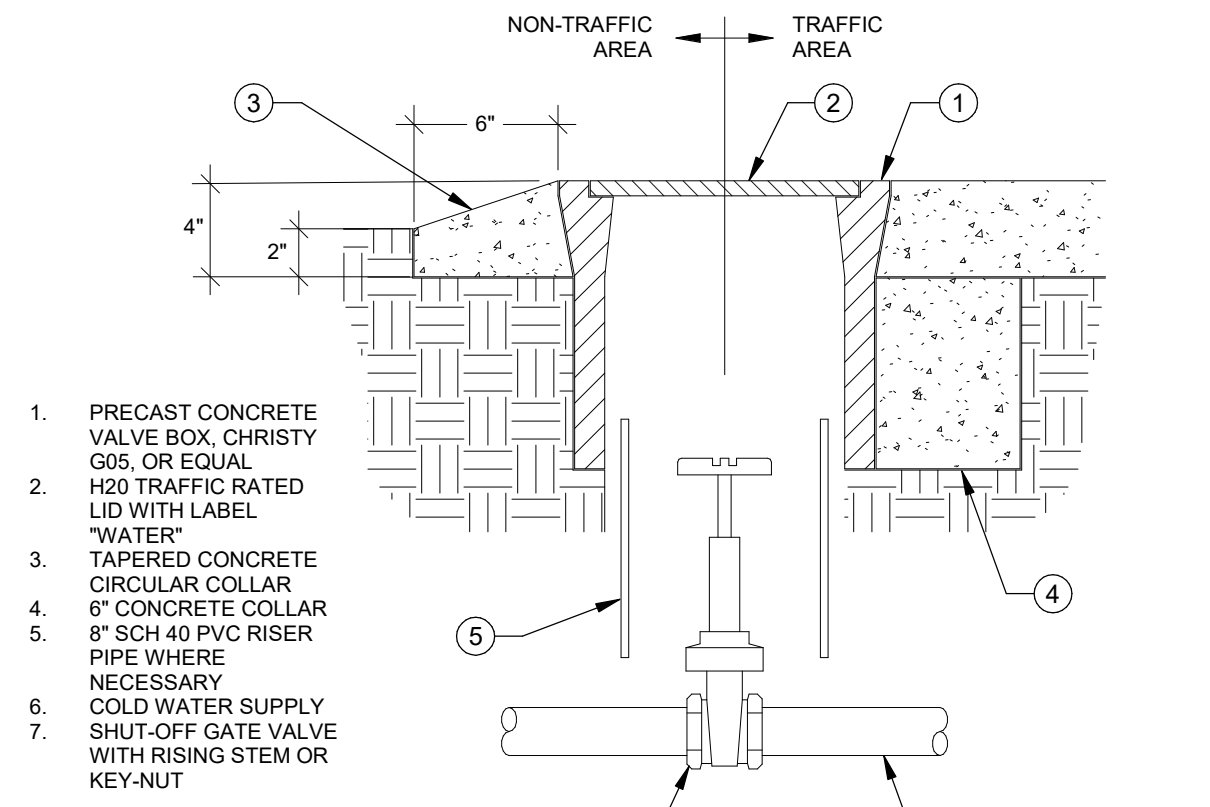


- NOTES:
- SUPPORT SPACING TO BE 40'-0" O.C. MAX AND WITHIN 2'-0" FROM ENDS
 - WRAP INSULATED PIPING EXPOSED TO OUTDOORS WITH ALUMINUM JACKETING.

ANCHORED PIPE SUPPORT ON ROOF NTS 8

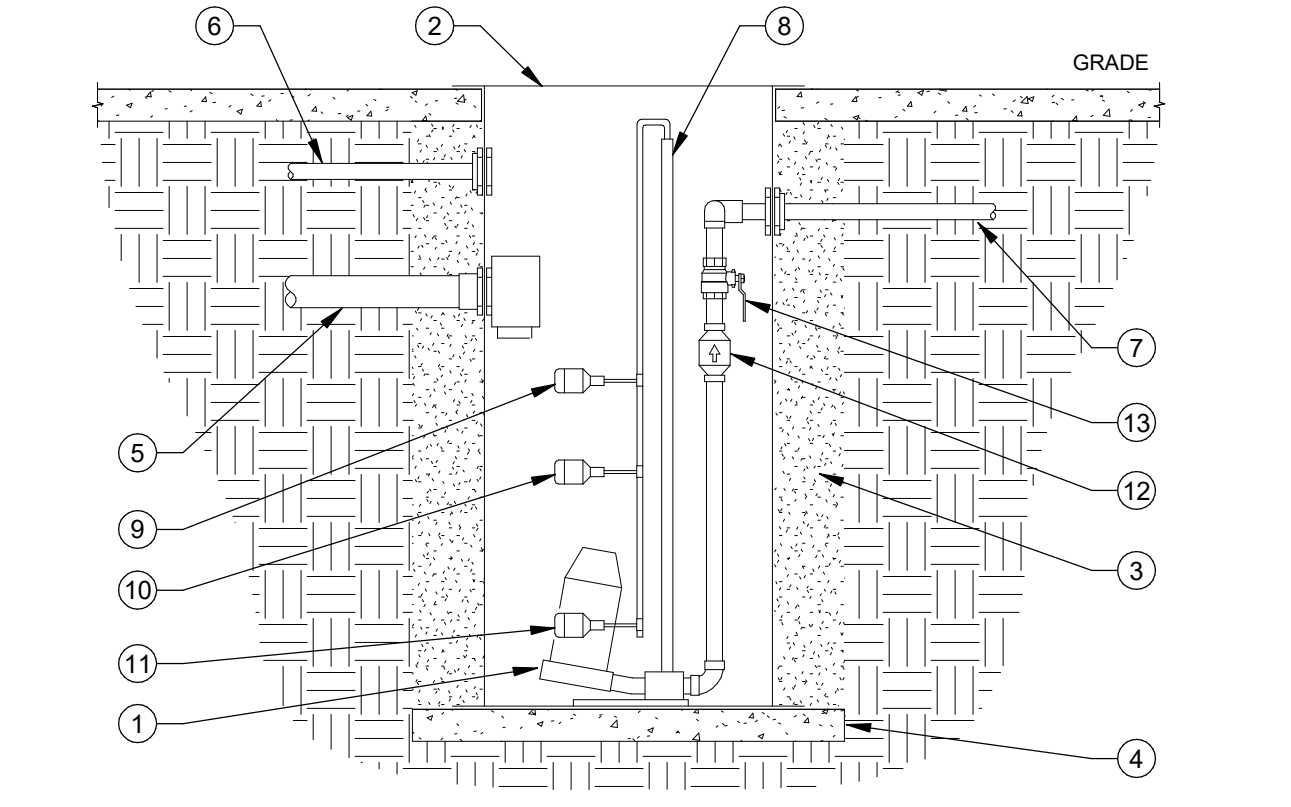


TWO-WAY CLEANOUT (COTG) NTS 5



CW SHUT-OFF VALVE NTS 6

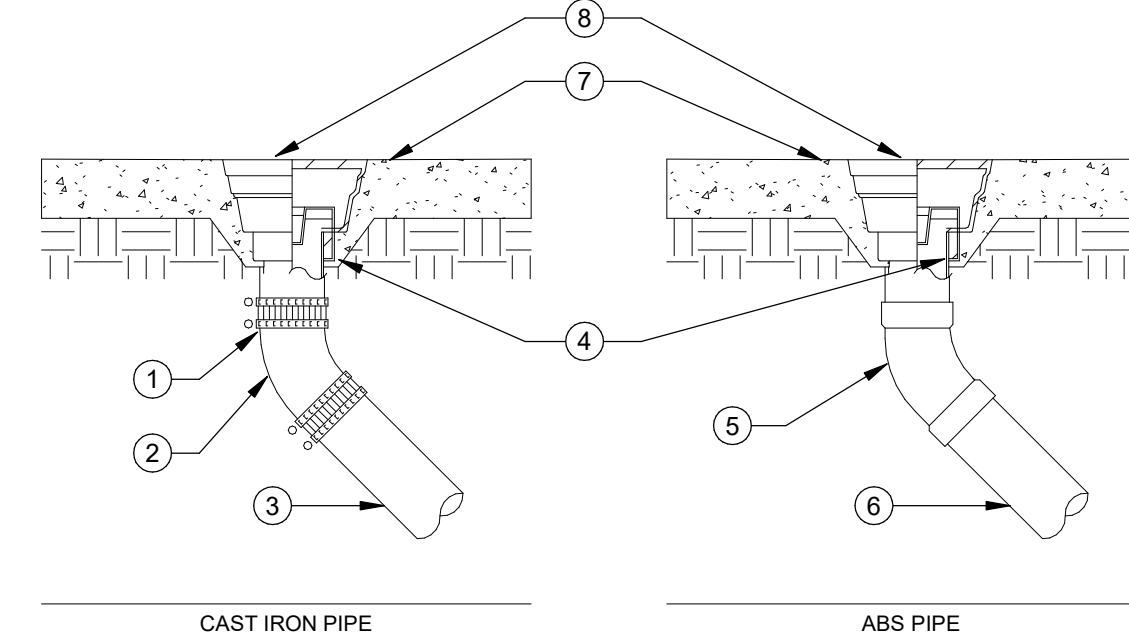
- ENGINEERED SEWAGE EJECTOR PUMP AND BASIN, SEE PLUMBING FIXTURE SCHEDULE
- FIBERGLASS PUMP BASIN BY PUMP MFGR WITH REMOVABLE LID, INSTALL FLUSH WITH GRADE
- MIN. 12" THICK GRAVEL BACKFILL PER PUMP MFGR'S REQUIREMENTS
- MIN. 4" THICK CONCRETE BASE PER MFGR'S REQUIREMENTS
- 4" SANITARY SEWER INLET WITH INLET HUB, SEE PLAN FOR SIZE AND ROUTING
- 2" VENT PIPING CONNECTION TO PUMP BASIN, CONNECT TO BASIN PER MFGR'S REQUIREMENTS, SEE PLAN FOR SIZE AND ROUTING
- MIN. 2" FORCED SANITARY SEWER DISCHARGE PER CPC 710.3
- GUIDE RAIL WITH CHAINS FOR PUMP SERVICING AND REMOVAL
- PRE-MOUNTED 'ALARM' FLOAT SWITCH
- PRE-MOUNTED 'ON' FLOAT SWITCH
- PRE-MOUNTED 'OFF' FLOAT SWITCH
- INTEGRAL DISCHARGE CHECK VALVE AT EACH PUMP
- INTEGRAL DISCHARGE SHUT-OFF BALL VALVE AT EACH PUMP DOWNSTREAM OF CHECK VALVE



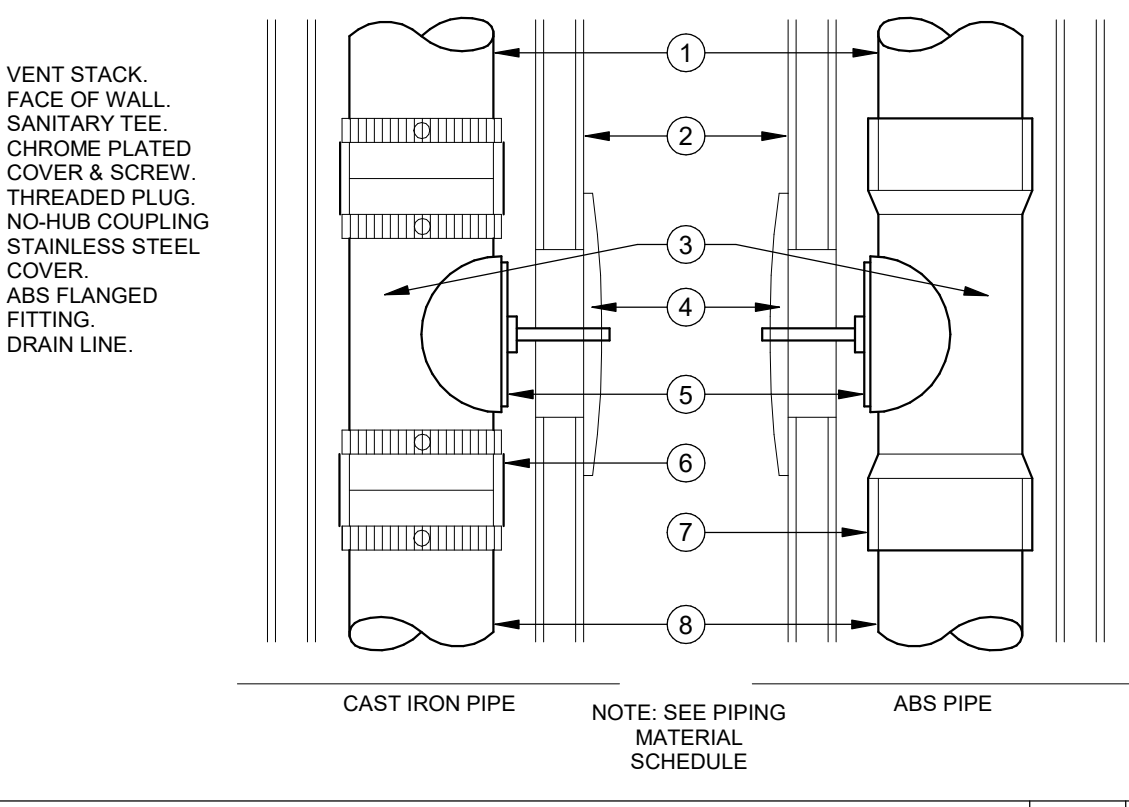
- NOTE:
- PER CPC 710.4, WHERE FORCED MAIN SEWER DISCHARGE LINE FROM EJECTOR PUMP CONNECTS TO HORIZONTAL GRAVITY SEWER PIPING, CONNECTION SHALL BE FROM THE TOP THROUGH A WYE BRANCH FITTING.

SUMP PUMP NTS 7

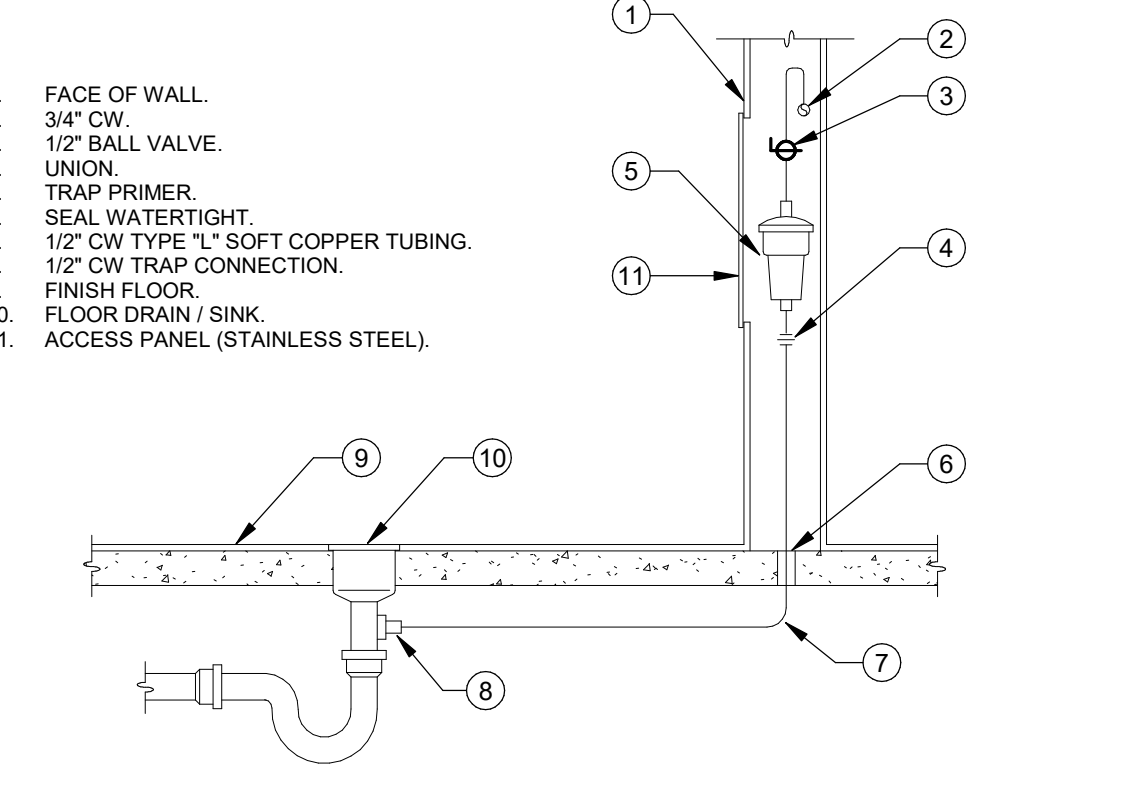
- S.S. RETAINING CLAMP
- C.I. 1/8" BEND
- C.I. DRAIN LINE
- CAULK JOINT WITH LEAD, NO WATER TO STAND ON LIP.
- ABS 1/8" BEND
- ABS DRAIN LINE
- ROUND ADJUSTABLE C.I. TOP, TRACTOR COVER, SET TOP FLUSH WITH CONCRETE.
- TOP OF CONCRETE FLOOR



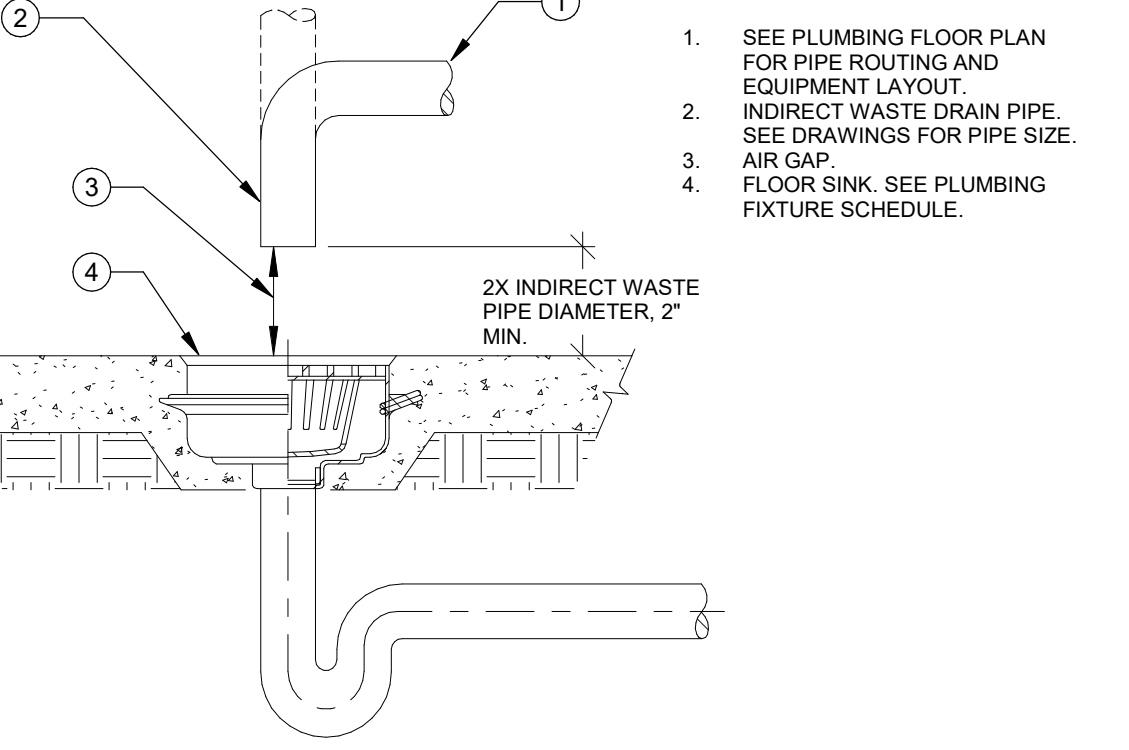
FLOOR CLEANOUT (FCO) NTS 1



WALL CLEANOUT (WCO) NTS 2



TRAP PRIMER PIPING DETAIL NTS 3



INDIRECT WASTE DETAIL NTS 4

AGENCY APPROVAL
FIG No: *****

REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
STATE OF CALIFORNIA
M 41413
REN. 03-31-25

REGISTERED ARCHITECT
STATE OF CALIFORNIA
No. 6-1730
Exp. 10-31-25

STAMPS

MEP & FS / Sustainability / C&A

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Job #: 23-2288

CONSULTANT BRANDING

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DATE	BY	DESCRIPTION

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KITCHEN UPGRADES AT JOYCE E.S.

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6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

PLUMBING DETAILS

PD-6.1

KITCHEN UPGRADES AT JOYCE E.S.

X-XX-XX

UTILITIES SERVICE AND UNDERGROUND TRENCHING NOTES

- 1. THESE PLANS HAVE BEEN PREPARED WITHOUT UTILITY COMPANIES COMMITMENTS (PENDING). LP CONSULTING ENGINEERS, INC. ACCEPTS NO RESPONSIBILITY AND SHALL NOT INCUR ANY COSTS DUE TO CHANGING IN SERVICE REQUIREMENTS BY THE UTILITY COMPANIES.
- 2. CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS WITH THE UTILITY COMPANIES AS FOLLO:
 - A. POWER COMPANY: PACIFIC GAS & ELECTRIC, STREET ADDRESS, CA CONTACT - NAME HERE, TELEPHONE - NUMBER HERE
 - B. TELEPHONE COMPANY: AT&T STREET ADDRESS, CA CONTACT - NAME HERE, TELEPHONE - NUMBER HERE
 - C. CABLE TELEVISION: COMCAST CABLE TELEVISION, STREET ADDRESS, CA CONTACT - NAME HERE, TELEPHONE - NUMBER HERE
- 3. CONTRACTOR SHALL CALL THE UTILITY COMPANIES REPRESENTATIVE TO ATTEND PRE-CONSTRUCTION MEETING.
- 4. CONTRACTOR SHALL PROTECT ANY APPLICABLE EXISTING STREET LIGHTING, UTILITY POLES, OVERHEAD LINES, UNDERGROUND WIRING, AND UTILITY PULL BOXES DURING CONSTRUCTION.
- 5. CONTRACTOR IS RESPONSIBLE FOR SITE AND OFF-SITE IMPROVEMENTS AND TO COORDINATE UTILITY CONNECTIONS WITH THE UTILITY COMPANIES.
- 6. POWER SERVICE:
 - A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH POLE FOR ALL ASPECTS OF THIS PROJECT INCLUDING ARRANGING FOR TEMPORARY CONSTRUCTION POWER, SCHEDULING INSPECTIONS AND OBTAINING SIGN-OFFS, SCHEDULING RELOCATION AND REMOVAL OF UTILITY EQUIPMENT, INSTALLING UTILITY EQUIPMENT AND INFRASTRUCTURE, AND SCHEDULING FINAL CONNECTION SERVICES. CONTRACTOR SHALL BE AWARE THAT POWER COMPANY REQUIRES EXTENSIVE ADVANCE NOTIFICATION AND SHOULD SCHEDULE ALL WORK ACCORDINGLY. CONTRACTOR SHALL NOT MAKE ANY CLAIMS FOR TIME DELAY DUE TO ANY POWER COMPANY WORK ASSOCIATED WITH THIS PROJECT.
 - B. CONTRACTOR SHALL CONTACT PG&E TO ARRANGE CONSTRUCTION TEMPORARY ELECTRICAL SERVICE. CONTRACTOR SHALL PAY ALL REQUIRED FEES AND INSTALLATION COSTS.
 - C. PG&E POWER SERVICE LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ANY WET UTILITIES.
- 7. TELEPHONE SERVICE:
 - A. CONTRACTOR SHALL COORDINATE WITH AT&T FOR ALL REQUIRED INSPECTIONS OF INFRASTRUCTURE WORK, PULL BOXES, AND TELECOM ROOM.
 - B. ALL AT&T COMPANY STRUCTURES MUST BE IN PLACE AND READY 30-45 DAYS PRIOR TO ANY REQUEST FOR NEW SERVICE.
- 8. UNDERGROUND TRENCHING:
 - A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800-277-2600, 48 HOURS BEFORE DIGGING.
 - B. BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OF OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE), AND SITE CONDITIONS TO AVOID CONFLICT.
 - C. TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE ELECTRICAL SYSTEM.
 - D. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE #40 PVC UN LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNING TRANSITIONS TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40-MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.
 - E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8.
 - F. PROVIDE 2" MINIMUM COVERAGE FOR UNDERGROUND CONDUITS, UNLESS OTHERWISE NOTED. THE EXCEPTION IS FOR PG&E SERVICE CONDUITS WHICH SHALL HAVE A 30" MINIMUM SEPARATION BETWEEN THE POWER AND LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHYLENE WARNING RIBBON LABELED "ELECTRICAL", LOCATED 8" BELOW GRADE IN THE TRENCH.
 - G. PROVIDE UNDERGROUND TRACER WHERE NON-METAL CONDUITS ARE INSTALLED.
 - H. PROVIDE "PARTX" IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.
 - I. ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPlice-KIT" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSE HOLDERS SHALL BE WATERPROOF.
 - J. ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.
 - K. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISTING PCC (PORTLAND CEMENT CONCRETE) WALKS, AC PAVING, UTILITIES, TREES, TURF, PLANTED AREAS AND OTHER FACILITIES RESULTING FROM THIS PROJECT, WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE WALKS, DRIVEWAYS, AND WALKWAYS. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCORE MARK TO SCORE MARK AFFECTED BY THE CONSTRUCTION WORK. ALL SIDEWALKS, DRIVEWAYS, AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.16 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13.26 AND 26.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. HCA OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

<input type="checkbox"/> MD	<input type="checkbox"/> MP	<input type="checkbox"/> PP	<input type="checkbox"/> E	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
<input type="checkbox"/> MP	<input type="checkbox"/> MD	<input type="checkbox"/> PP	<input type="checkbox"/> E	OPTION 2: SHALL COMPLY WITH HCA (OSHPP) PRE-APPROVAL (OPM) # _____

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
A/AMP	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AFO	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
C	CONDUIT
CCT	CIRCUIT
CCT	CIRCUIT
DC	DIRECT CURRENT
(E)	EXISTING TO REMAIN
EM	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
GFCl	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT-AMPS
KW	KILOWATTS
LTS	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL CONDUCTOR (GROUNDED CIRCUIT CONDUCTOR)
N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
NIGHT LIGHT	NIGHT LIGHT
PHIP	PHASE OR POLE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT (SCHEDULE 40)
(R)	RELOCATE/RELOCATED
RECEP	RECEPTACLE
RSCC	RIGID GALVANIZED STEEL CONDUIT
U	UNSWITCHED
UNO	UNLESS NOTED OTHERWISE
V	VOLTS OR VOLTS
W	WATTS
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE
(X)	REMOVE
XFRM	TRANSFORMER

DEMOLITION GENERAL NOTES

- ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.
- 1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY DATA AND ARE SHOWN FOR CLARITY. IT SHALL BE REGRABED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
 - 2. EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY. THE OWNER/DISTRICT'S REPRESENTATIVE AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENT AND SCHEDULE THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY. LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMAL SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.
 - 3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN, SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
 - 4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
 - 5. WHERE REMOVAL OF AN EXISTING SYSTEMS DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
 - 6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
 - 7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED, CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
 - 8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED AREA FOR A CLEAN FINISHED SURFACE.
 - 9. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INsofar AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
 - A. REMOVE ALL WIRE AND CABLE.
 - B. REMOVE ALL DEVICES AND EQUIPMENT.
 - C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
 - D. CUT OFF AND CAP ALL ABANDONED CONDUIT, STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
 - 10. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.
 - 11. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE, CUT AND/OR FINISHED WALLS AND CEILINGS.
 - 12. CONTRACTOR SHALL UPDATE WITH NEW TYPED WRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
 - 13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.
 - 14. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
 - 15. REFER TO MECHANICAL AND PLUMBING DRAWING FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, AND ETC., WHICH REQUIRE TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE FOR WORK WITH THE MECHANICAL AND/OR PLUMBING FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING.
 - 16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE-LAMPED PRIOR TO THE RE-INSTALLATION.

GENERAL NOTES

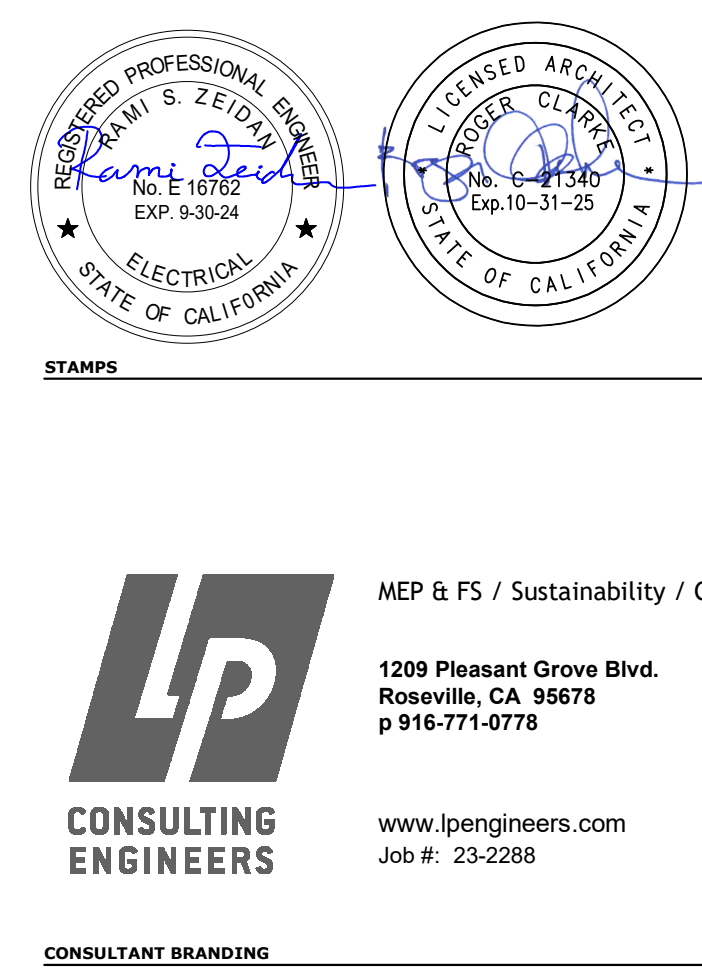
- ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.
- 1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCEPTS FROM THE SPECIFICATION.
 - 2. PROCURE PERMITS AND LICENSING REQUIREMENTS. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND COMPLIANCE.
 - 3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
 - 4. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
 - 5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
 - 6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
 - 7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
 - 8. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
 - 9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
 - 10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
 - 11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
 - 12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
 - 13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCE (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
 - 14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
 - 15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING COMPLY WITH CBC REQUIREMENTS.
 - 16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
 - 17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
 - 18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB, ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEC STANDARDS OF INSTALLATION.
 - 19. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
 - 20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREFOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREFOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON-SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
 - 21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THIN/THIN INSULATION, UNLESS OTHERWISE NOTED.
 - 22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
 - 23. PROVIDE A WARNING LABEL (R909) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 10.26(A).
 - 24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING IS TO BE USED IS LOWER THAN MAIN SERVICE RATING.
 - 25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III. BRANCH CIRCUITS PER 422-II.
 - 26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. VERIFY THE METHODS ACROSS EXPANSION JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
 - 27. VERIFY THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.26 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
 - 28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT AND/OR OWNER FOR AN ACCESSIBLE SOLUTION.
 - 29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
 - 30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF EQUIPMENT WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS, ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURBS WHERE POSSIBLE. VERIFY ON-SITE.
 - 31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER I.M.C. WHERE LOCATED OUTSIDE THROUGH WEATHERPROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
 - 32. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
 - 33. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
 - 34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT MANUFACTURER SPECIFICATIONS.
 - 35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-X AND 440.11.
 - 36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
 - 37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440.11.
 - 38. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
 - 39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS SHALL BE RATED AT 60 DEGREE, CENTERLINE PER CEC 110.14(G).
 - 40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE, AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.

OCCUPANCY AND DAYLIGHTING SENSOR NOTES

- 1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:
 - A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
 - B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.
 - C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT THE MANUFACTURER'S RESPONSIBILITY TO VERIFY PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.
 - D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.
- 2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:
 - A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM.
 - B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.
 - C. LIGHTING CONTROLS COMMISSIONING, INSPECTIONS (INCLUDING STATE OF CALIFORNIA ENERGY COMMISSION INSPECTION FORMS AND APPLICATIONS), TESTING, PROGRAMMING AND TUNING OF LIGHTING CONTROL, SENSORS, DEVICES AND COMPONENTS, ETC. SHALL BE INCLUDED IN THE LIGHTING CONTROL PACKAGE AND PRICE. ANY LABOR, TOOLS AND MATERIALS REQUIRED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM SHALL BE AT NO EXTRA COST TO THE OWNERS OR END-USERS.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E-1.1	ELECTRICAL DEMO & NEW LIGHTING PLAN
E-0.1	ELECTRICAL NOTES
E-0.2	ELECTRICAL LEGENDS
ES-1.0	ELECTRICAL OVERALL SITE PLAN
ES-1.1	ELECTRICAL ENLARGED DEMO & NEW SITE PLANS
ES-1.2	ELECTRICAL PHOTO-METRIC SITE PLAN
E-1.0	ELECTRICAL DEMO & NEW POWER PLANS
E-2.0	ELECTRICAL DEMO & NEW ROOF PLANS
E-3.0	ELECTRICAL ONE-LINE DIAGRAM
E-4.0	ELECTRICAL FUTURE AND PANEL SCHEDULES
ED-0.0	ELECTRICAL DETAILS



FOR REFERENCE ONLY

PROJECT No. :X-XX-XX
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KITCHEN UPGRADES AT JOYCE E.S.

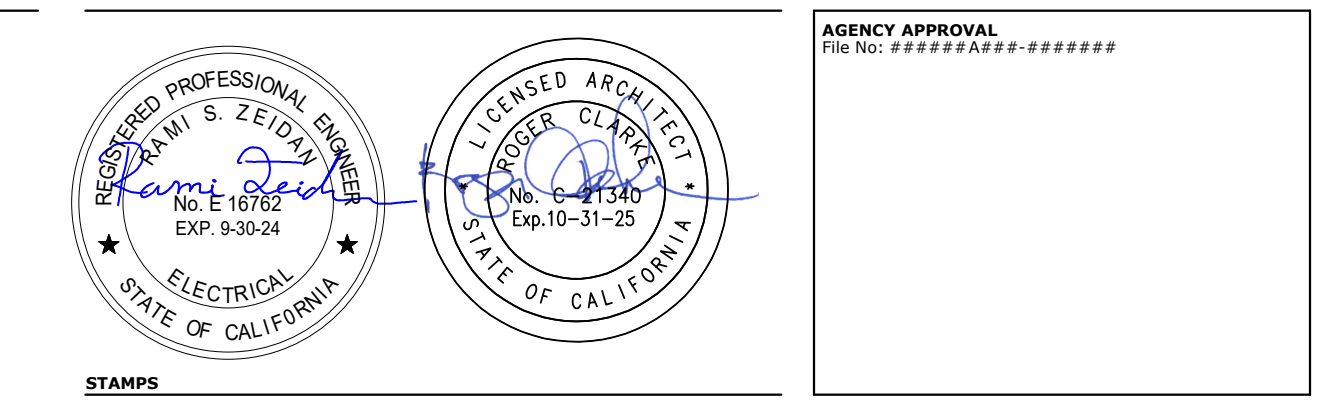
ELECTRICAL NOTES

E-0.1

F.C. JOYCE ELEMENTARY SENTRY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

KITCHEN UPGRADES AT JOYCE E.S.

X-XX-XX



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RUHNAU CLARKE ARCHITECTS

ELECTRICAL SYMBOL LEGEND			
ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING LED LUMINAIRE - T-BAR LAY-IN LED LUMINAIRE - RECESSED IN GYPSBOARD LED LUMINAIRE - SURFACE LED LUMINAIRE - SUSPENDED LED LUMINAIRE - SURFACE OR SUSPENDED STRIP LED LUMINAIRE - RECESSED DOWNLIGHT LED LUMINAIRE - RECESSED WALLWASH LED LUMINAIRE - SURFACE LED LUMINAIRE - WALL LED LUMINAIRE - PENDANT TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT HATCHED LUMINAIRE INDICATES AN EMERGENCY LUMINAIRE CONNECTED TO A EMERGENCY POWER DISTRIBUTION SYSTEM, OR INTEGRAL EMERGENCY BATTERY BACK-UP SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL) DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL) COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED SPOT/FLOOD LUMINAIRE - CEILING SPOT/FLOOD LUMINAIRE - ABOVE GROUND EXTERIOR POLE FIXTURE - SINGLE HEAD EXTERIOR POLE FIXTURE - TWIN HEAD EXTERIOR PATHWAY POST-TOP POLE FIXTURE BOLLARD FIXTURE STEP LUMINAIRE LIGHTING CONTROLS SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +16" TO TOP OF BOX, UNO. THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO. SUBSCRIPTS 'a' b or 'c' DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES) SINGLE POLE KEYED BARREL SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO. PUSH BUTTON WALL MOUNTED DIMMER. SEE CONTROL DRAWINGS FOR TYPE. OCCUPANCY SENSOR. SEE CONTROL DRAWINGS FOR TYPE. PHOTOCONTROL DAYLIGHT SENSOR TAGS AND LEADERS BRACKET LEADERS KEY NOTE LIGHT FIXTURE TAG: FIXTURE TYPE, PANEL NAME, CIRCUIT# / SWITCHLEG FEEDER DESIGNATION TAG KITCHEN EQUIPMENT DESIGNATION TAG DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL, BOTTOM LETTER/NUMBER INDICATES SHEET MECHANICAL EQUIPMENT I.D. TAG - MP&S		POWER MAIN SWITCHBOARD OR DISTRIBUTION PANEL AS NOTED RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL RECESSED TERMINAL CABINET w/ 3/4" PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO. SURFACE MOUNTED TERMINAL CABINET w/ 3/4" PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO. DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED NON-FUSED DISCONNECT SWITCH ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE MOTOR STARTER/CONTROLLER COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED. POWER CONNECTION DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. [1] ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 120V @ +16" TO BOTTOM OF BOX, UNO. DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. [1] ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP. [1] ISOLATED GROUNDED FOURPLEX RECEPTACLE 20A, 120V @ +16" TO BOTTOM OF BOX, UNO. DEDICATED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, MOUNTED ABOVE COUNTER. [1] GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. GFCI FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. [1] ISOLATED GROUND GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. DEDICATED GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO. FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR FLOOR MOUNTED FOURPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V CEILING MOUNTED FOURPLEX RECEPTACLE, 20A, 125V JUNCTION BOX - SIZE AS REQUIRED BY CODE. (WALL MOUNTED AND REGULAR) JUNCTION BOX (FLOOR MOUNTED) - SIZE AS REQUIRED BY CODE. PLUGMOLD POWER POLE FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA FLOOR MOUNTED COMBO FOURPLEX RECEPTACLE / TELEPHONE/DATA CEILING EXHAUST FAN ELECTRIC VEHICLE CHARGER, DUAL PORT & SINGLE PORT THERMAL OVERLOAD SWITCH MOTOR RATED SWITCH	
		ONE LINE DIAGRAM PANEL IDENTIFICATION CIRCUIT BREAKER FUSED SWITCH GROUND FAULT CIRCUIT INTERRUPTER GROUND UNDERGROUND TERMINATION SERVICE LUG UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET CUSTOMER-OWNED MULTIFUNCTION METER WITH CURRENT TRANSFORMERS MOTOR TRANSFORMER WITH GROUND UFER GROUND BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL AUTOMATIC TRANSFER SWITCH NEUTRAL LINK SURGE PROTECTIVE DEVICE CIRCUITS STUB CONTINUATION CONDUIT RISER - UP CONDUIT DROP - DOWN CONDUIT CONCEALED IN CEILING OR WALL CONDUIT CONCEALED IN FLOOR OR UNDERGROUND EXISTING CONDUIT TO REMAIN CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE. HOMERUN TO PANELBOARD OR TERMINAL CABINET w/ CONDUCTORS AS NOTED CIRCUIT CONDUCTORS: LONG TICK INDICATES NEUTRAL CONDUCTOR, SHORT TICKS INDICATE PHASE CONDUCTORS, TICK MARK WITH A DOT ON THE END INDICATES EQUIPMENT GROUNDING CONDUCTOR. NUMBER BY TICKS INDICATE WIRE GAUGE OTHER THAN 12 AWG CU. NO TICKS INDICATE #12 CU, 1 #12 CU GND. IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT, WHETHER SHOWN ON PLAN OR NOT. FLEXIBLE CONDUIT, 6'-0" LONG MAX. w/ #12 CU GROUND UNO.	
		FOOTNOTE: [1] PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD ACCESSIBLE APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL ACCESSIBLE APPROACH (PER CBC 11B-308).	

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KITCHEN UPGRADES AT JOYCE E.S.

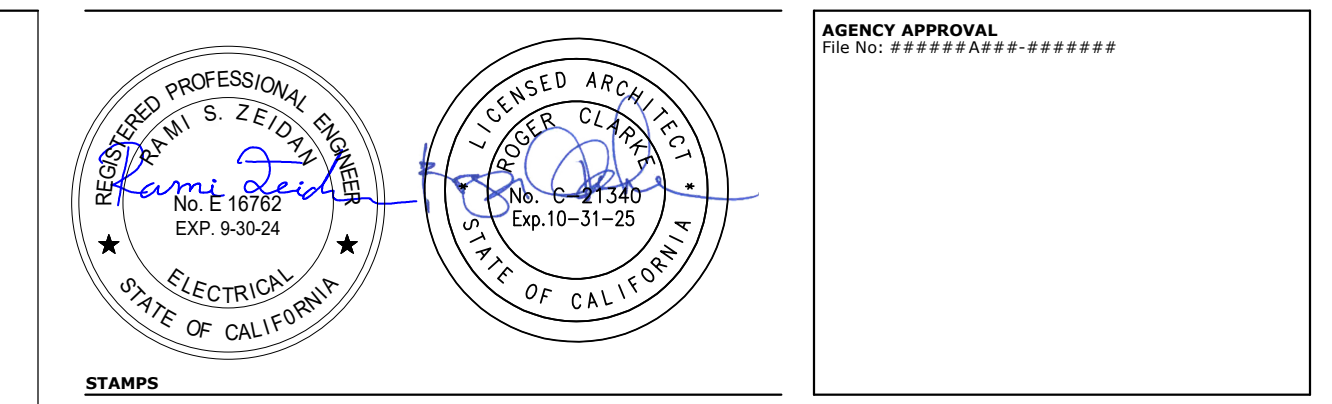
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ELECTRICAL LEGENDS

E-0.2

KITCHEN UPGRADES AT JOYCE E.S.:

X-XX-XX



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CONSULTANT BRANDING



KEY NOTES

- 1 PROVIDE NEW LIGHTING HEAD FIXTURE AT 180-DEGREES NEXT TO EXISTING FIXTURE. INTERCEPT EXISTING LIGHT CIRCUIT FEEDING EXISTING FIXTURE HEAD ON EXISTING POLE AND CONNECT TO NEW LIGHT HEAD. VERIFY EXISTING ELECTRICAL CIRCUIT VOLTAGE AND PROVIDE SUITABLE FIXTURE FOR RECONNECTION. MATCH FIXTURE FINISH COLOR TO EXISTING POLE FIXTURES ON SITE.

FOR REFERENCE ONLY

1 ELECTRICAL OVERALL SITE PLAN

SCALE: 1" = 30'-0"

PROJECT No. :X-XX-XX
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DATE	BY	DESCRIPTION

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KITCHEN UPGRADES AT JOYCE E.S.

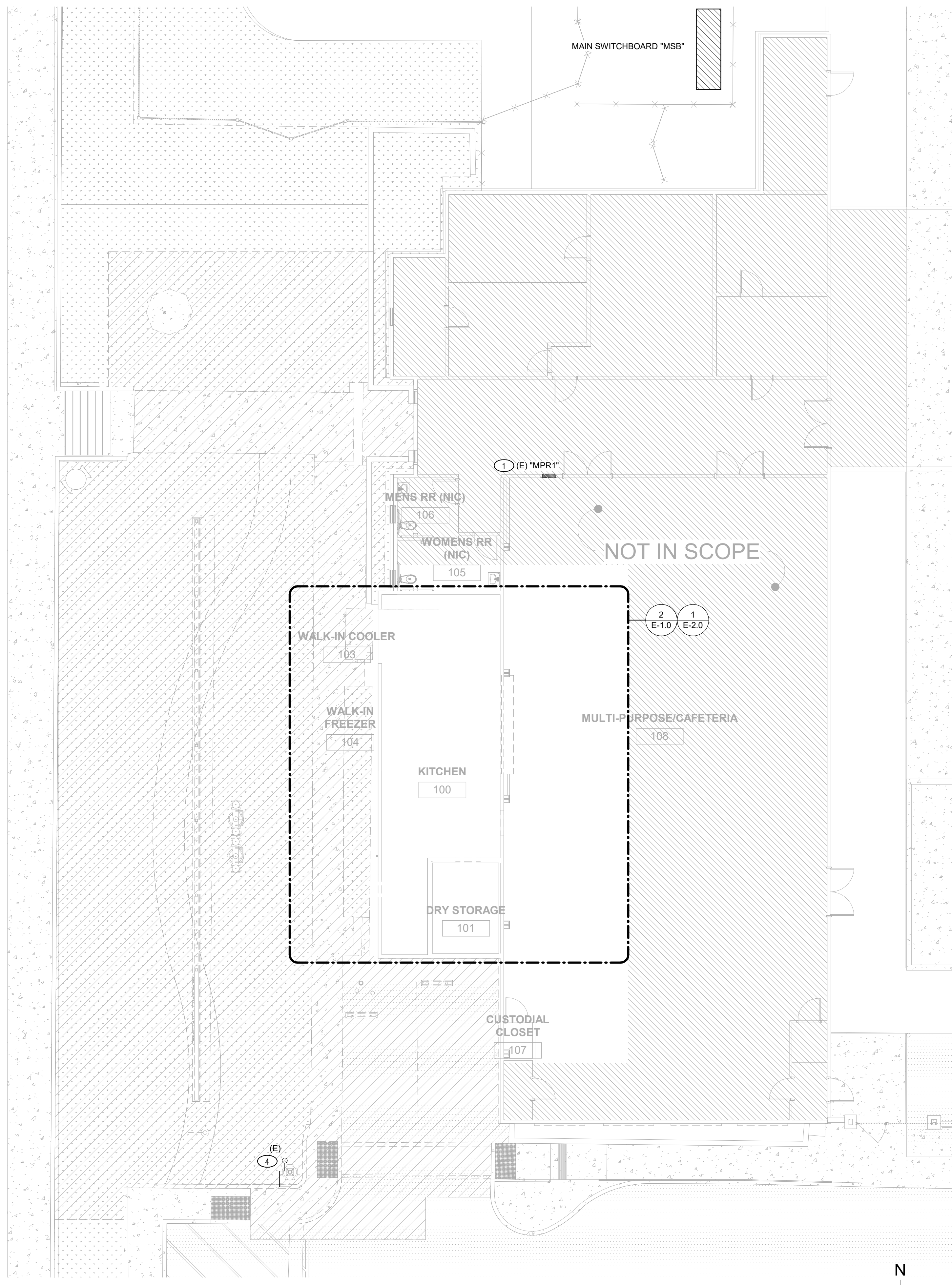
ELECTRICAL OVERALL SITE PLAN

ES-1.0

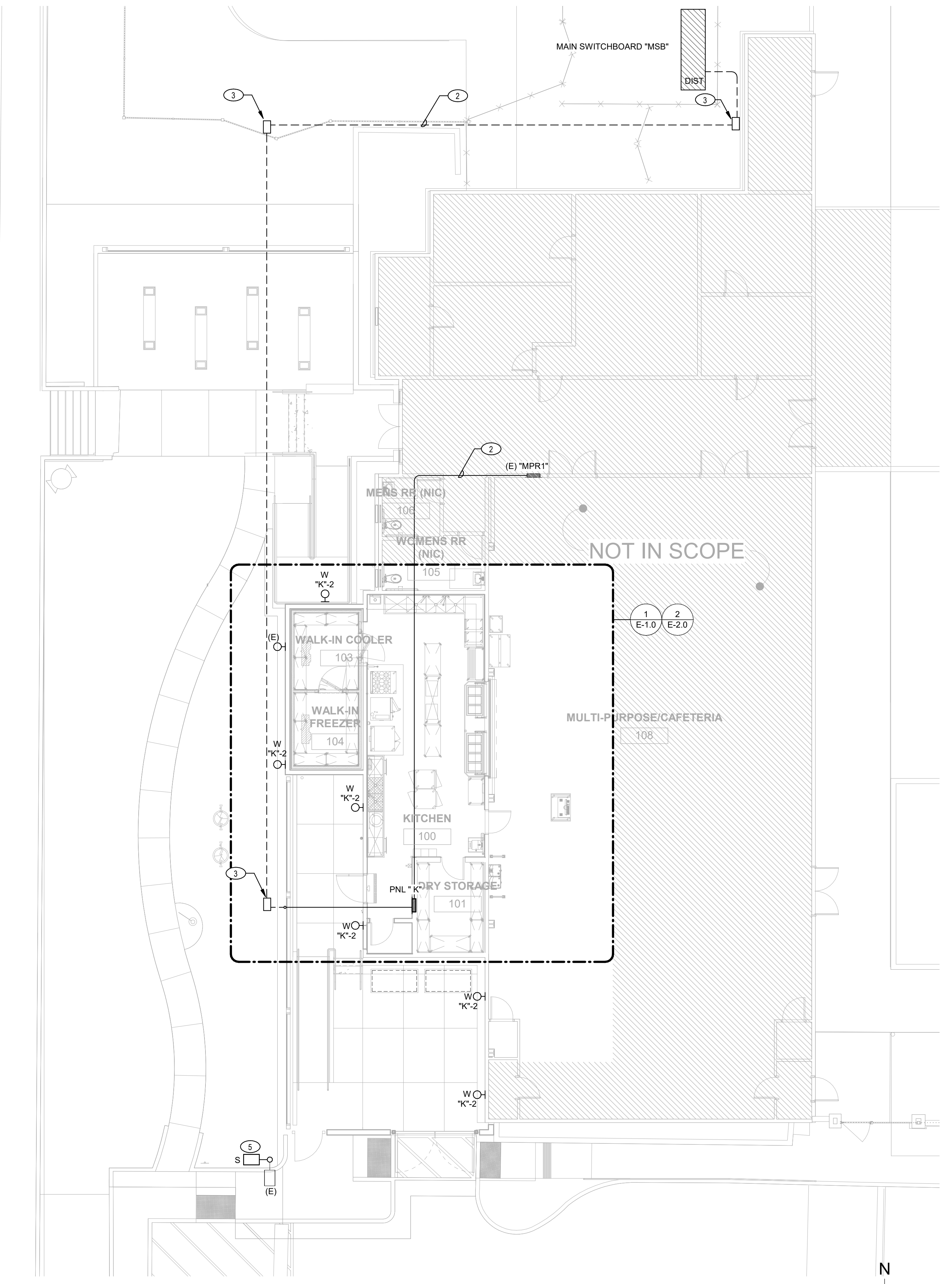
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KITCHEN UPGRADES AT JOYCE E.S.:

- KEY NOTES**
- DISCONNECT AND REMOVE EXISTING PANEL "MPR1" INCOMING FEEDERS AND ANY BRANCH CIRCUIT WIRING BEING DEMO-ED AS PART OF CURRENT SCOPE. RECONNECT EXISTING PANEL PER KEY NOTE 2 AND ONE LINE DIAGRAM.
 - PROVIDE NEW CONDUIT AND WIRE PER ONE-LINE DIAGRAM. COORDINATE IN FIELD FOR THE LEAST INTRUSIVE AND THE MOST OPTIMAL CONDUIT ROUTING THROUGH EXISTING BUILDING. CONCEAL NEW CONDUIT AS MUCH AS PRACTICALLY POSSIBLE.
 - PROVIDE NEW 18X24 UNDERGROUND PULLBOX WITH H20 TRAFFIC LID.
 - EXISTING LIGHT POLE WITH EXISTING FIXTURE HEAD. PROVIDE NEW FIXTURE HEAD AS INDICATED ON NEW SITE PLAN.
 - PROVIDE NEW LIGHTING HEAD FIXTURE AT 90-DEGREES NEXT TO EXISTING FIXTURE. INTERCEPT EXISTING LIGHT CIRCUIT FEEDING EXISTING FIXTURE HEAD ON EXISTING POLE AND CONNECT TO NEW LIGHT HEAD. VERIFY EXISTING ELECTRICAL CIRCUIT VOLTAGE AND PROVIDE SUITABLE FIXTURE FOR RECONNECTION. MATCH FIXTURE FINISH COLOR TO EXISTING POLE FIXTURES ON SITE.



2 ELECTRICAL ENLARGED DEMO SITE PLAN
 SCALE: 1/8" = 1'-0"



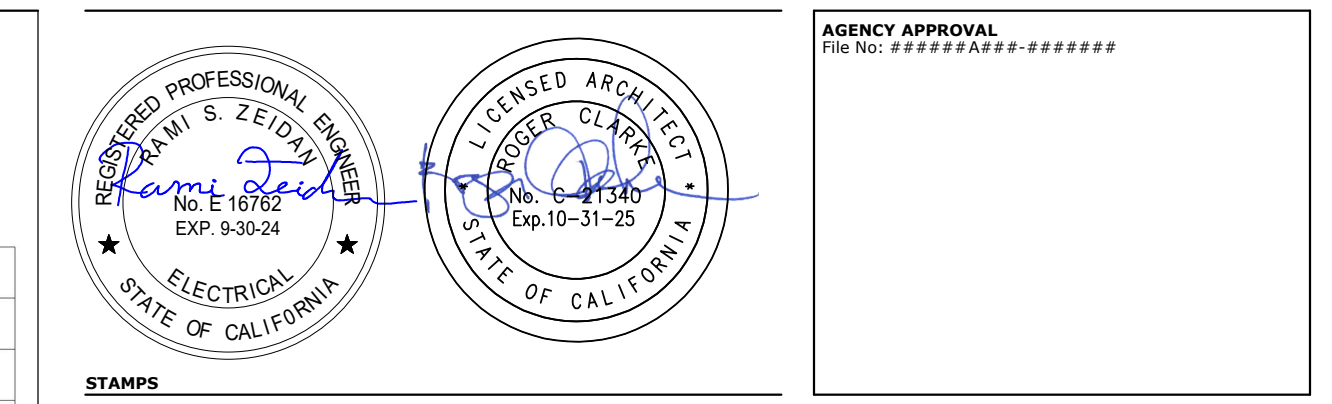
1 ELECTRICAL ENLARGED NEW SITE PLAN
 SCALE: 1/8" = 1'-0"

FOR REFERENCE ONLY

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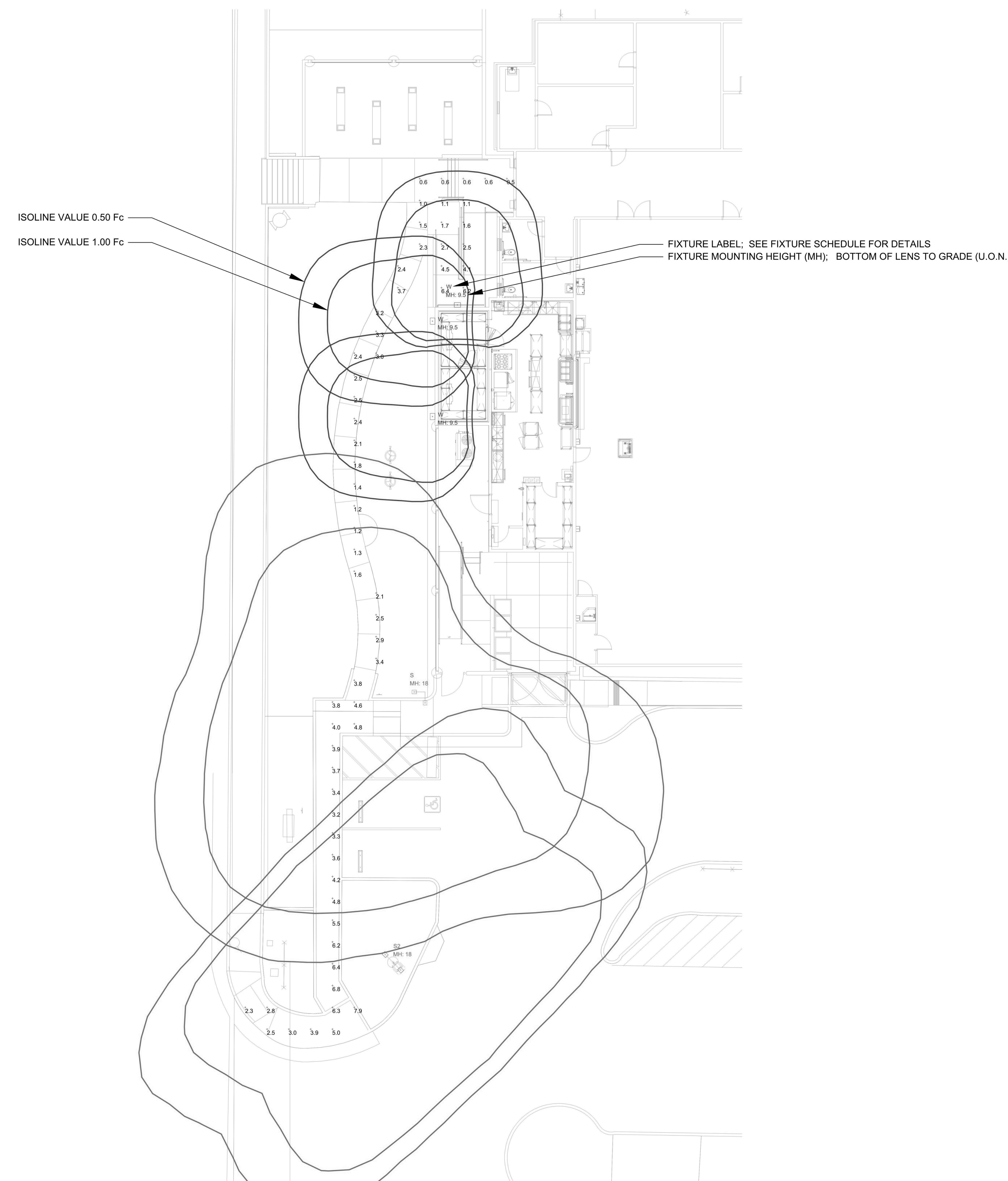
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KITCHEN UPGRADES AT JOYCE E.S.:



Luminaire Schedule							
Scene: EM							
Symbol	Qty	Label	Arrangement	Description	Lum. Lumens	LLF	Filename
	1	S	2 @ 90 degrees	GARDCO GL18-DIM-3-50LA-4835-NW-LNV-xxx	6785	0.900	g118-3-50la-4835-nw.ies
	1	S2	Back-Back	GARDCO GL18-DIM-2-50LA-4835-NW-LNV-xxx	7376	0.900	g118-2-50la-4835-nw.ies
	3	W	SINGLE	LEOTEK ES1-24H-MV-NW-FT-xxx-530-PC-MSL2-EM	4548	0.900	IES ES1-24H-MV-NW-FT-XX-530 043015.ies

Calculation Summary							
Scene: EM							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PATH OF EGRESS	Illuminance	Fc	3.11	7.9	0.5	6.22	15.80



LIGHTING PLAN - PHOTOMETRIC ANALYSIS - LAYOUT VERIFICATION
 SCALE: 1" = 10'-0" (ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT FINISHED GRADE, U.O.N.)

PRELIMINARY - NOT FOR CONSTRUCTION
 NOT FOR QUOTING PURPOSES

Note: Unless otherwise specified - the lamp lumen depreciation (LLD) for legacy sources used in these calculations is based on published mean lumen ratings by major lamp manufacturers; 0.80 LLD for pulse start metal halide; 0.90 LLD for high pressure sodium; 0.95 LLD for linear T8 and T5 fluorescent; 0.86 LLD for compact fluorescent and induction; 0.88 LLD for Cosmo and Elite lamps; 0.94 LLD for all LED sources. Unless otherwise noted - 0.90 luminaire dirt depreciation (LDD) is commonly applied. In cases where appropriate - ballast factor (BF) is applied. Additional user defined factors (UDF) may be applied if necessary to represent luminaire performance to a higher degree of accuracy. Total light loss factor (LLF) is the product of all multiplied loss factors.

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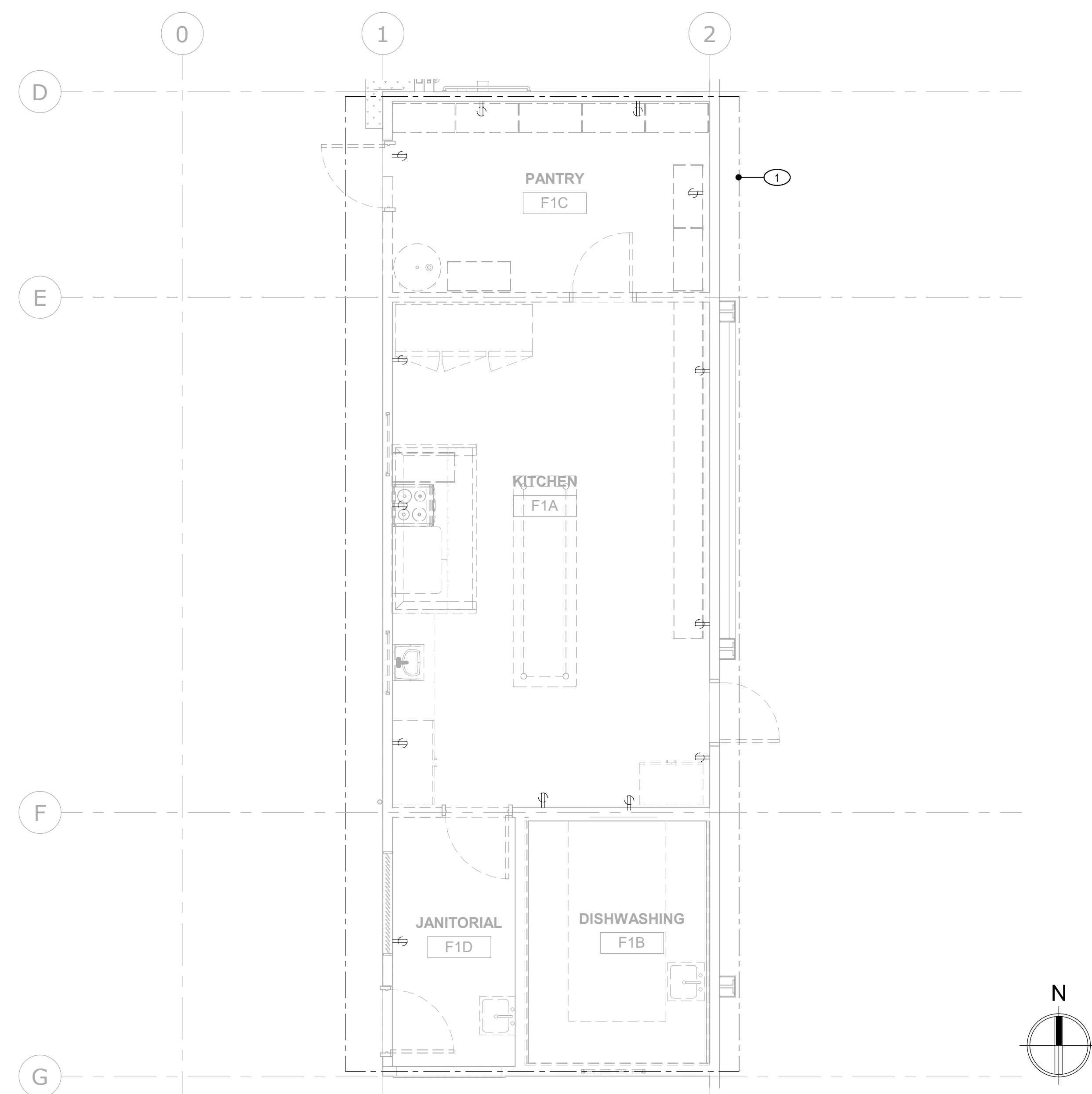
KITCHEN UPGRADES AT JOYCE E.S.

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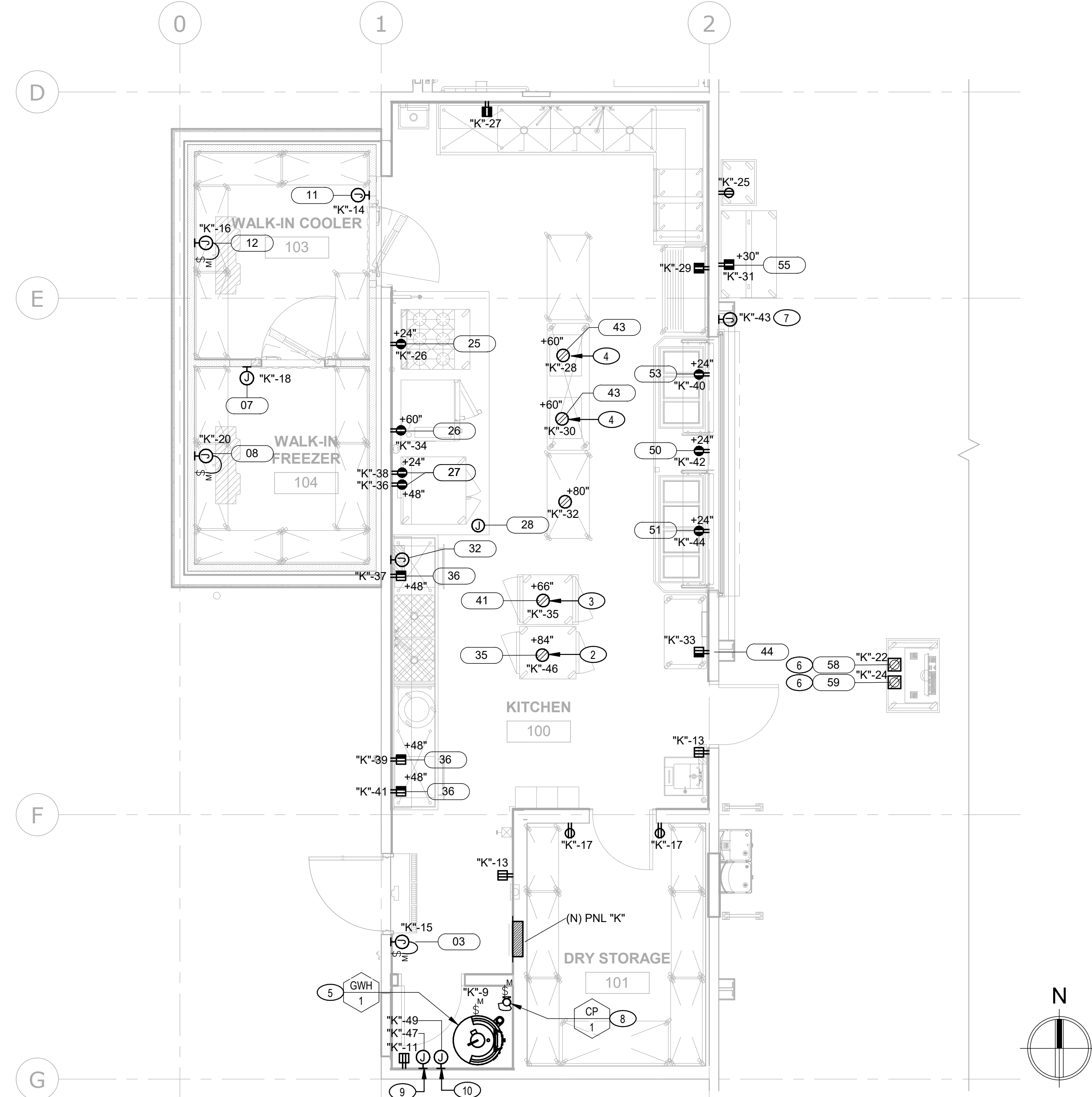
ELECTRICAL
 PHOTOMETRIC SITE
 PLAN

ES-1.2

KITCHEN UPGRADES AT JOYCE E.S.:



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



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

CONSULTING ENGINEERS

 1209 Pleasant Grove Blvd.

 Roseville, CA 95678

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 Job #: 23-2288

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KEY NOTES

- 1 DEMO EXISTING POWER AND LIGHTING FIXTURES AND ASSOCIATED DISTRIBUTION WIRING IN THE KITCHEN SCOPE OF WORK. DISCONNECT EXISTING MECHANICAL AND PLUMBING EQUIPMENT BEING REPLACED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE. REFER TO SHEET GENERAL NOTES FOR ADDITIONAL DEMOLITION WORK REQUIREMENTS.
- 2 CONVENIENCE OUTLET (DROP CORD AND PLUG) NEMA 5-15P. STUB-DOWN FROM CEILING.
- 3 CONVENIENCE OUTLET (DROP CORD AND PLUG) NEMA 5-20P. STUB-DOWN FROM CEILING.
- 4 CONVENIENCE OUTLET (DROP CORD AND PLUG) STUB-DOWN FROM CEILING
- 5 GAS WATER HEATER. ELECTRICAL IGNITER 4.0A / 120V.
- 6 SAWCUT EXISTING FLOOR AND PROVIDE 2-GANG COMBINATION DATA&POWER FLOOR BOXES AS INDICATED. PATCH AND REPAIR FLOORING AS BEFORE.
- 7 MOTORIZED ROLL-UP DOOR, 120V/1PH.
- 8 CIRCULATION PUMP, 115V/3PH, FLA: 0.4
- 9 FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT.
- 10 FIRE ALARM AMPLIFIER. PROVIDE DEDICATED CIRCUIT.

GENERAL NOTES

- K. NO CONDUIT SHALL RUB OR COME IN CONTACT WITH REFRIGERATION LINES.
- L. SEE REFRIGERATION DRAWINGS FOR EQUIPMENT SCHEDULES AND CONTROL WIRING. CONTROL WIRING PROVIDED BY ELECTRICAL CONTRACTOR.
- M. ALL RECEPTACLES INSTALLED IN KITCHEN AND WASH DOWN AREAS SHALL BE GFCI PROTECTED AND HAVE WEATHERPROOF WHILE IN USE COVERS.
- N. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HOOD FIRE SUPPRESSION SYSTEM CONTROL WIRING. PROVIDE CONDUIT, WIRE, RELAYS, CONTACTORS, ETC. AS REQUIRED TO MAKE ALL CONNECTIONS AND INTERLOCKS IN CONFORMANCE WITH LOCAL FIRE MARSHAL REQUIREMENTS. PROVIDE FOR DE-ENERGIZING ALL ELECTRICAL OUTLETS AND GAS SOLENOID VALVES UNDER HOODS AS REQUIRED.
- O. PROVIDE CONDUIT FOR ALL CASE TEMPERATURE PROBES (NOT SHOWN). SEE REFRIGERATION DRAWINGS FOR QUANTITIES AND LOCATIONS. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
- P. REFER TO REFRIGERATION DRAWINGS FOR REFRIGERATION EQUIPMENT WIRING AND DISCONNECT SWITCH REQUIREMENTS.
- Q. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRES FROM EACH REFRIGERATED WALK-IN BOX TO COMPRESSOR RACK AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
- R. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOOR SWITCHES FOR NEW WALK-IN FREEZERS AND WIRE THROUGH FAN AND SOLENOID CIRCUITS. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
- S. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR HEAT TRACE TAPE FOR NEW WALK-IN FREEZERS AND MEAT COOLER DRAINS.
- T. THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FOR WALK-IN REFRIGERANT MONITORING PANEL AND DEVICES AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
- U. CONDUIT PENETRATION INTO WALK-IN REFRIGERATOR AND FREEZER SHALL BE PER DETAILS ON FOODSERVICE DRAWINGS. COORDINATE EXACT PENETRATIONS WITH EQUIPMENT VENDOR.

GENERAL NOTES

- A. FURNISH AND INSTALL ALL MOTOR STARTERS, RELAYS AND CONTACTORS FOR REFRIGERATION EQUIPMENT. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
- B. VERIFY LOCATIONS OF ELECTRICAL STUB-UPS FOR REFRIGERATED CASES, TABLES AND OUTLETS WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE PRIOR TO FLOOR POUR.
- C. SURFACE MOUNT ALL CONDUIT IN PREFAB REFRIGERATED WALK-IN BOXES AND SEAL ALL PERFORATIONS WITH PERMAGUM OR APPROVED SEALANT.
- D. CONNECT ALL BLOWER COIL FAN MOTORS LOCATED IN WALK-IN BOXES WITH WP FLEX, CONDUIT AND PROVIDE DISCONNECT SWITCH.
- E. FURNISH AND INSTALL CONDUIT, WIRE, OUTLETS, ETC. FOR REFRIGERATED WALK-IN BOXES AND CONNECT COMPLETE AND READY TO OPERATE AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
- F. REVIEW THE REFRIGERATION PLANS AND DIAGRAMS PRIOR TO STARTING WORK AND CONTACT REFRIGERATION EQUIPMENT INSTALLER IF CLARIFICATION IS NEEDED. UPON COMPLETION OF WIRING, PERFORM A SATISFACTORY OPERATIONAL CONTROL SEQUENCE CHECK WITH THE REFRIGERATION EQUIPMENT INSTALLER BY RINGING OUT ALL CIRCUITS AND CORRECTING ANY WIRING ERRORS.
- G. MOUNT AND/OR CONNECT ALL THERMOSTATS, SOLENOIDS AND OTHER CONTROLS FURNISHED BY THE REFRIGERATION AND/OR AIR CONDITIONING CONTRACTORS AND CONNECT ALL MOTORS, CONTROLS AND OTHER COMPONENTS FURNISHED BY THESE CONTRACTORS.
- H. VERIFY LOCATIONS OF ALL THERMOSTATS, SOLENOIDS AND OTHER ELECTRICAL CONTROLS WITH THE REFRIGERATION AND/OR AIR CONDITIONING CONTRACTORS PRIOR TO ROUGH-IN.
- I. FURNISH AND INSTALL ALL CONDUIT, WIRE, OUTLETS, ETC. FOR ALL KITCHEN EQUIPMENT AS REQUIRED. THIS EQUIPMENT IS FURNISHED AND INSTALLED BY OTHERS, CONNECTED BY THE ELECTRICAL CONTRACTOR.
- J. ALL CONDUIT FOR REFRIGERATED CASES INSTALLED BELOW BUILDING FLOOR SLAB SHALL BE MINIMUM 1" DIAMETER.

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KITCHEN UPGRADES AT JOYCE E.S.

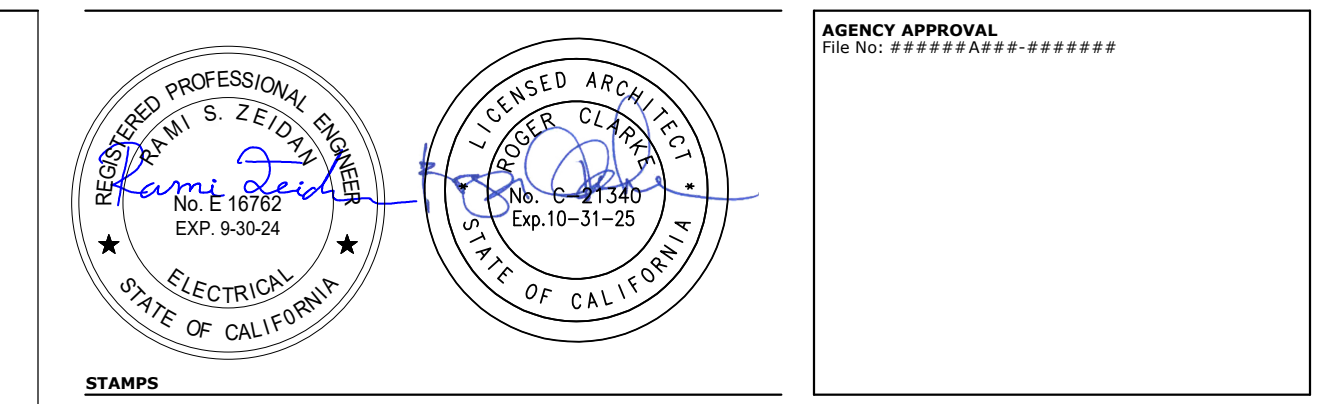
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ELECTRICAL DEMO & NEW POWER PLANS

E-1.0

KITCHEN UPGRADES AT JOYCE E.S.:

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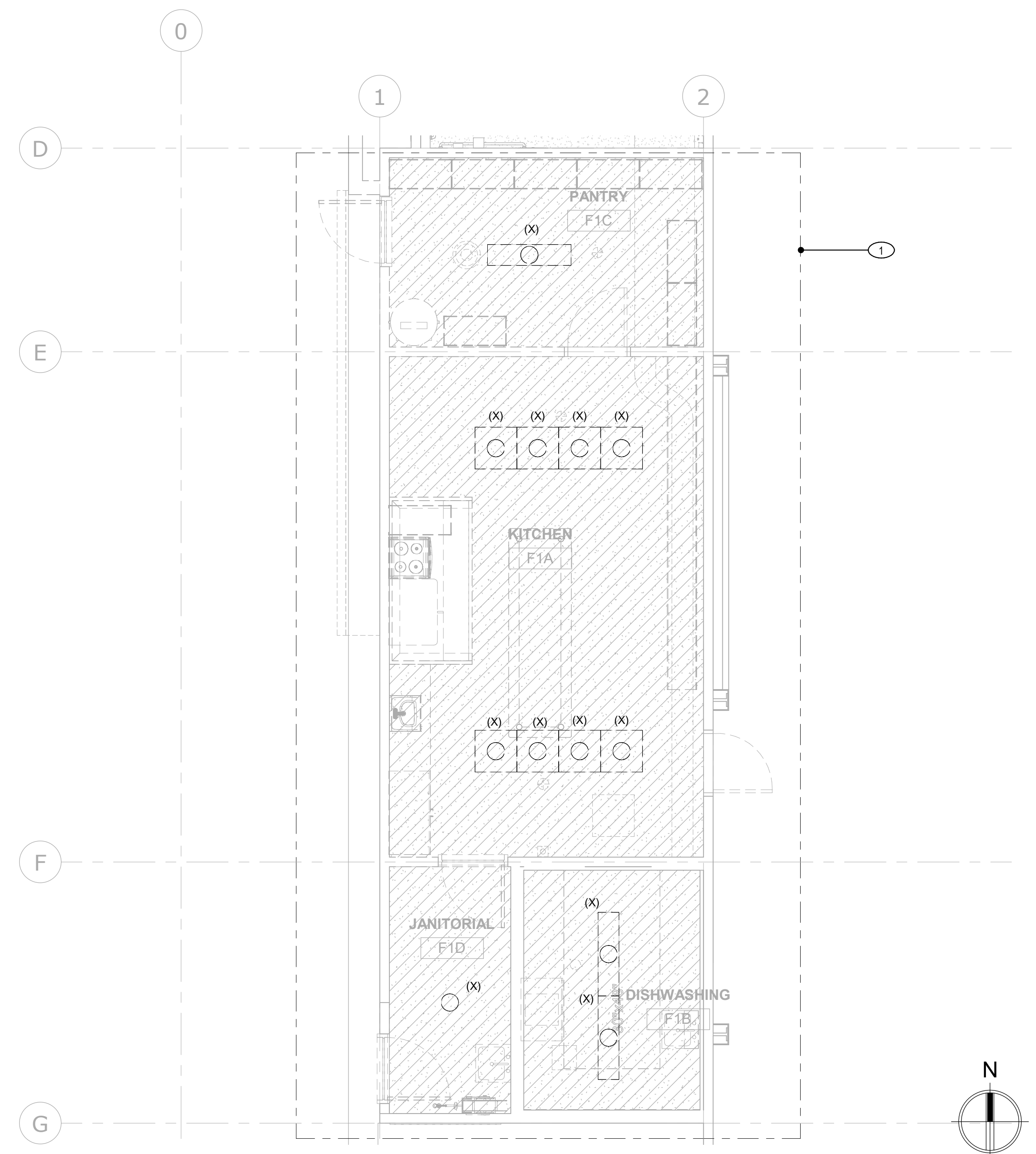
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KEY NOTES

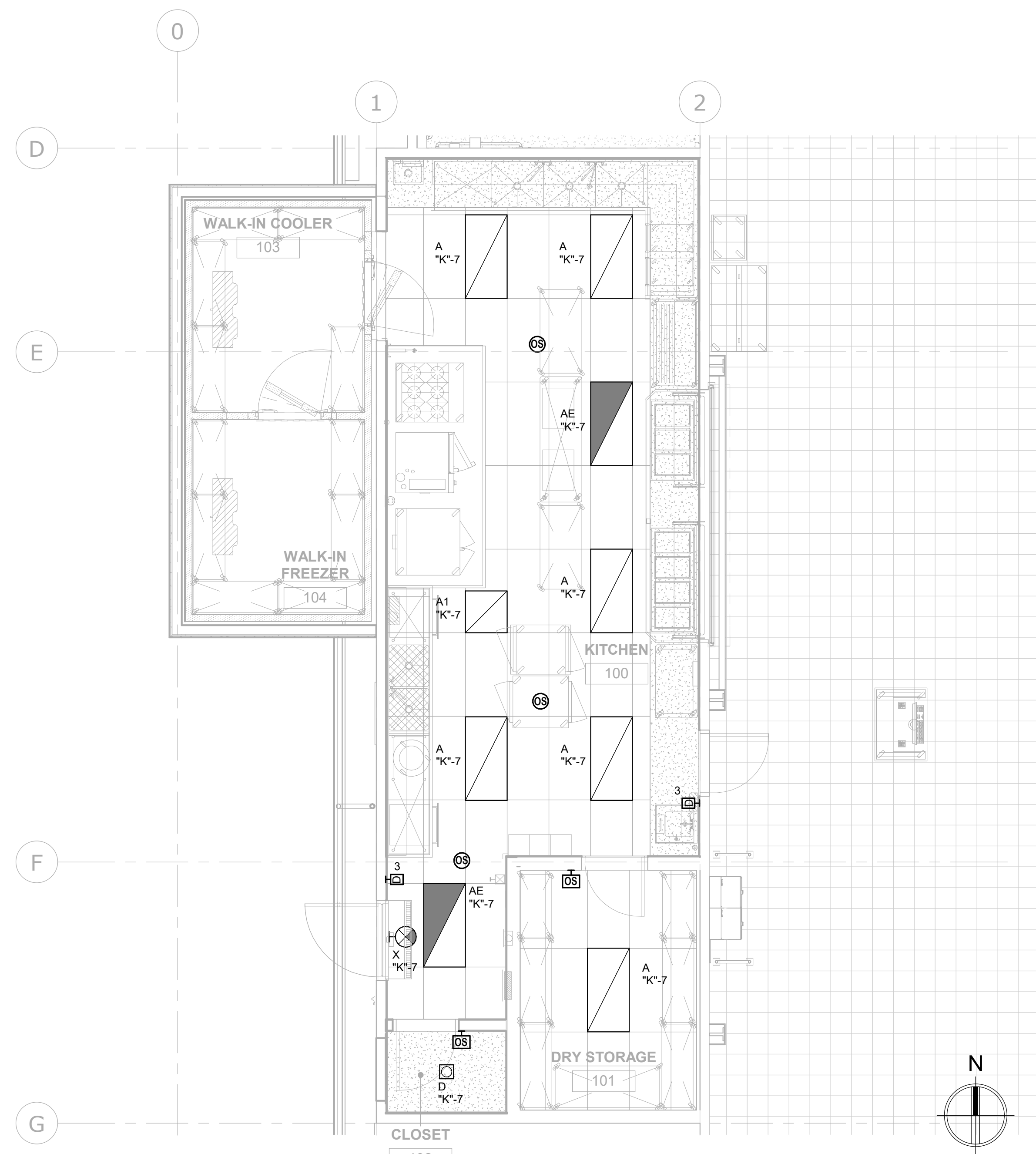
- 1 DEMO EXISTING POWER AND LIGHTING FIXTURES AND ASSOCIATED DISTRIBUTION WIRING IN THE KITCHEN SCOPE OF WORK. DISCONNECT EXISTING MECHANICAL AND PLUMBING EQUIPMENT BEING REPLACED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE. REFER TO SHEET GENERAL NOTES FOR ADDITIONAL DEMOLITION WORK REQUIREMENTS.

GENERAL NOTES

- A. ONLY LIGHTING CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE SHOP DRAWING FOR LIGHTING CONTROL SYSTEM, SHOWING ALL COMPONENTS, LOCATIONS AND POINT-TO-POINT WIRING DIAGRAM FOR REVIEW AND APPROVAL. CONTRACTOR SHALL PROVIDE REQUIRED PROGRAMMING, CONFIGURATIONS AND ADJUSTMENTS, FOR A COMPLETE AND OPERABLE SYSTEM. SEE OCCUPANCY AND DAYLIGHT SENSOR GENERAL NOTE ON SHEET E-001K.
- B. PROVIDE UNSWITCHED HOT LEG CONNECTION TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.



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



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

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KITCHEN UPGRADES AT JOYCE E.S.

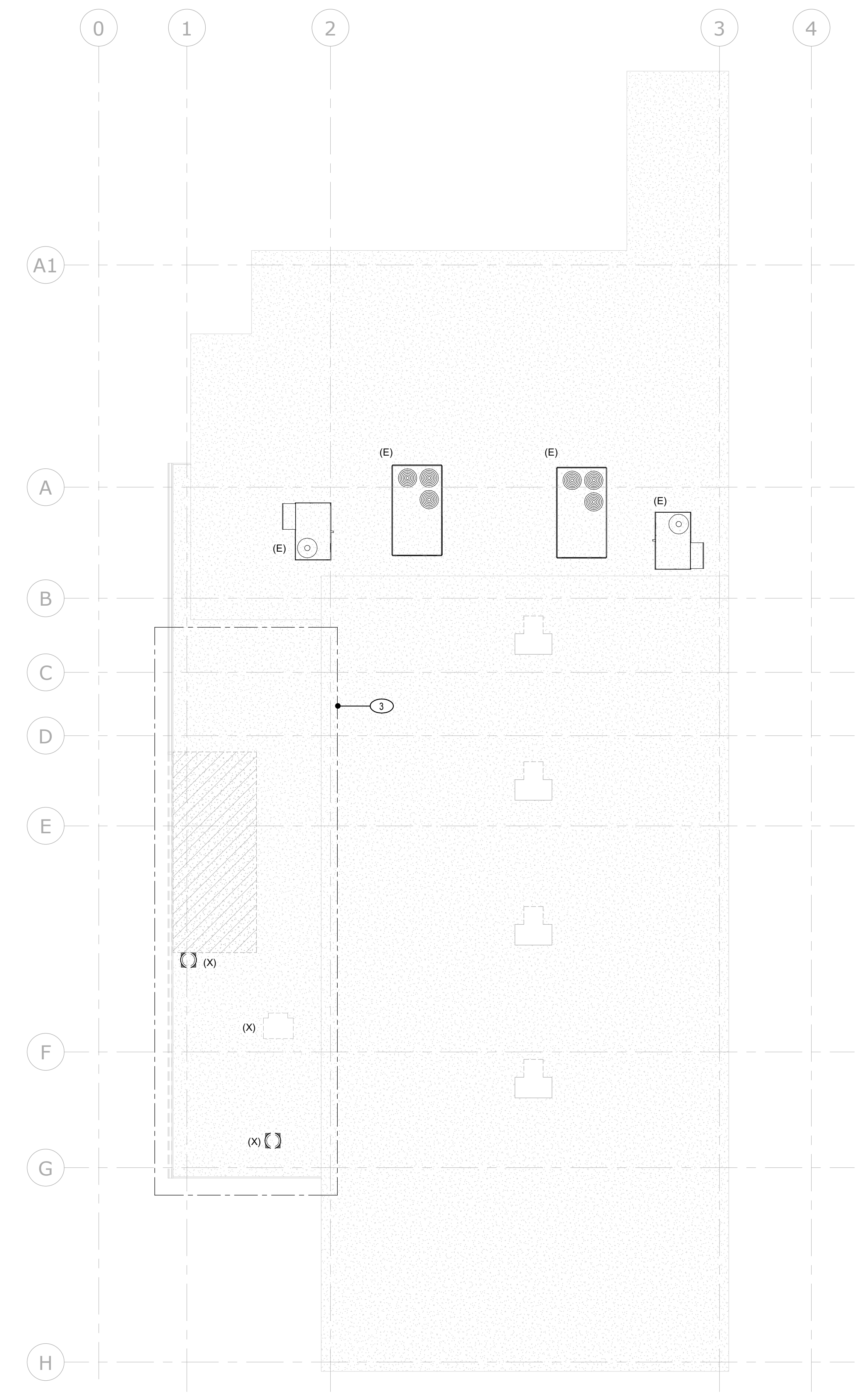
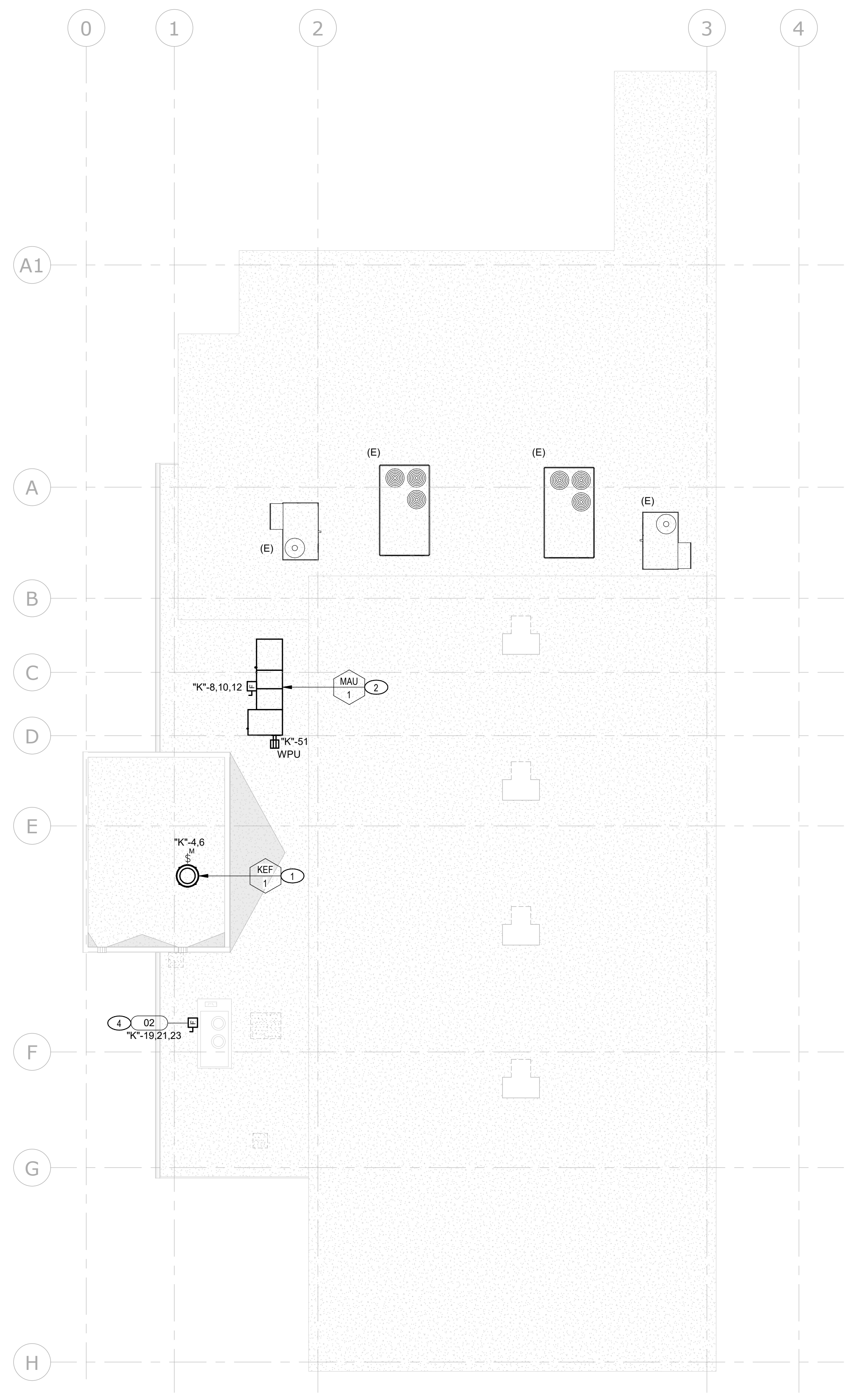
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ELECTRICAL DEMO & NEW LIGHTING PLAN

E-1.1

KITCHEN UPGRADES AT JOYCE E.S.:

X-XX-XX



KEY NOTES

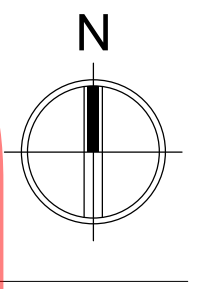
- 1 ROOFTOP EXHAUST FAN, 208V/1-PHASE, 7 FLA, 20A MOCP. PRE-WIRED DISCONNECT SWITCH BY EQUIPMENT MANUFACTURER. RUN 3/4" C. W/2#12 CU + 1#12 CU GND. TO CIRCUITS INDICATED.
- 2 MAKE-UP AIR UNIT, 208V/3-PHASE, 10.8 FLA, 15A MOCP. PROVIDE 30A/3P/15A DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. RUN 3/4" C. W/3#12 CU + 1#12 CU GND. TO CIRCUITS INDICATED.
- 3 DISCONNECT EXISTING MECHANICAL EQUIPMENT BEING REPLACED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE. REFER TO DEMOLITION NOTES ON SHEET E-0.1 FOR DEMOLITION WORK REQUIREMENTS.
- 4 REMOTE REFRIGERATION RACK, 208V/3PH, 20.7 FLA, 30A MOCP. COORDINATE EXACT LOCATION WITH FOOD SERVICE EQUIPMENT VENDOR. PROVIDE 30A/3P/30A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. RUN 1" C. W/3#10 CU + 1#10 CU GND. TO CIRCUITS INDICATED.

FOR REFERENCE ONLY

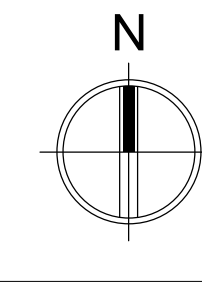
2 ELECTRICAL NEW ROOF PLAN
 SCALE: 1/8" = 1'-0"

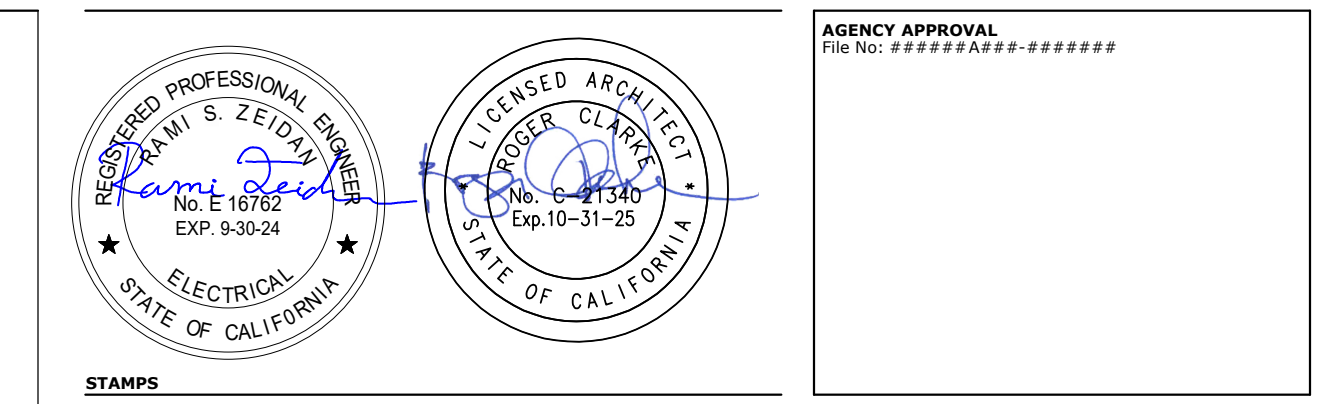
PROJECT No. :X-XX-XX
 7/3/2024 14:28:58

DELTA #	DATE	ADD	REV	BY	CHKD	DATE



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





MEP & FS / Sustainability / C&A

RUHNAU CLARKE ARCHITECTS

1208 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpenginers.com
Job #: 23-2288

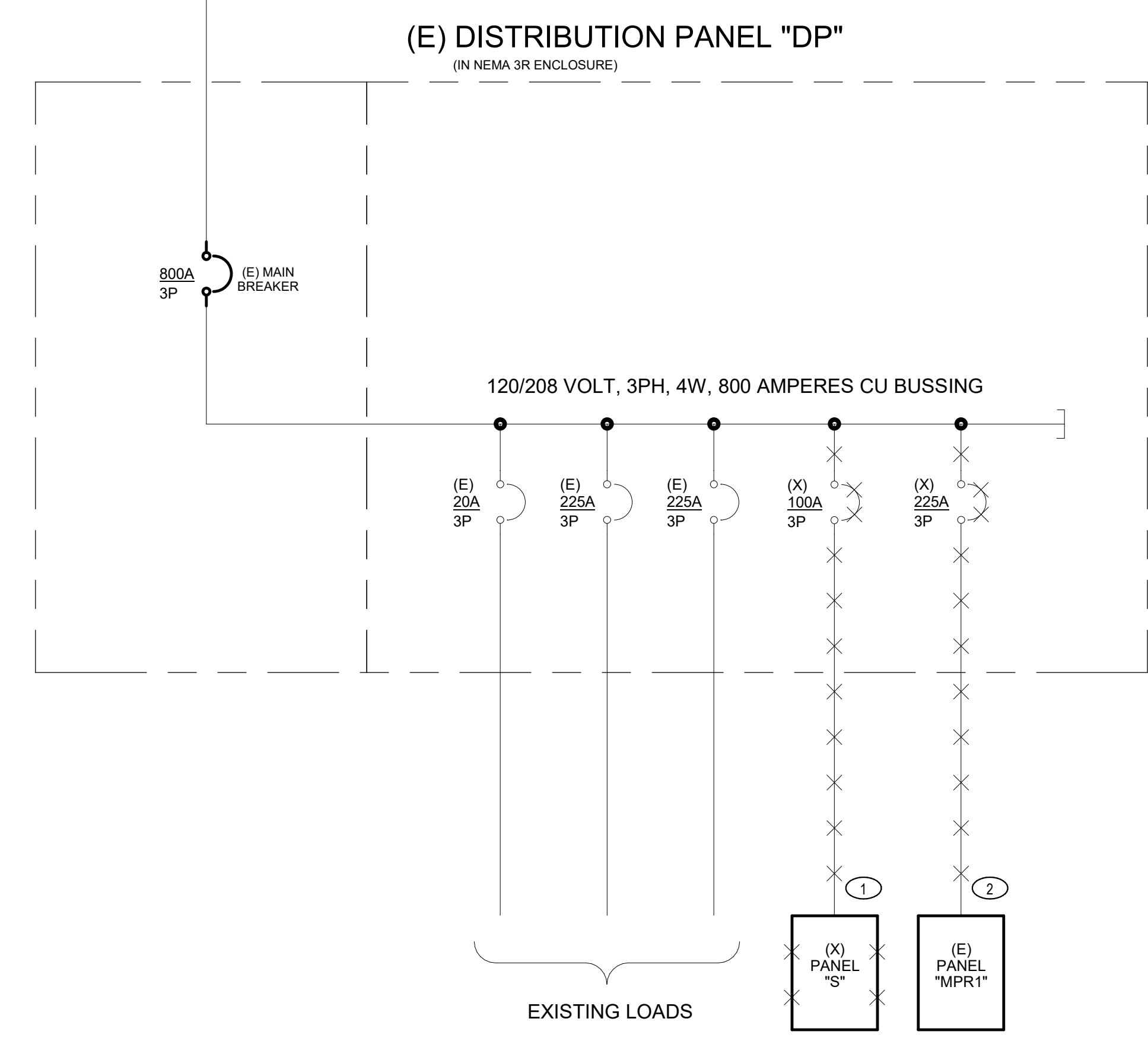
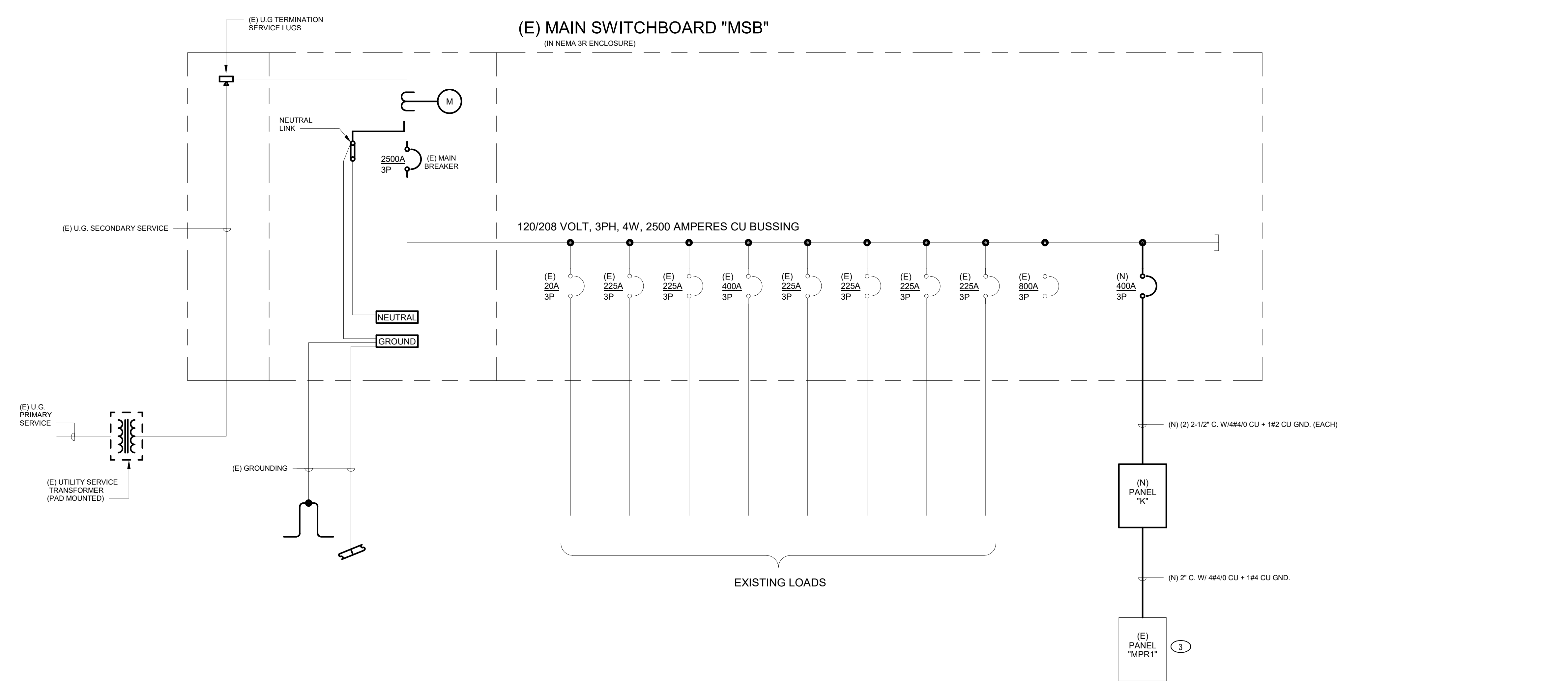
CONSULTANT BRANDING

KEY NOTES

- DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL ALONG WITH ASSOCIATED FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING.
- DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL MAIN FEEDER BACK TO SOURCE AND RECONNECT WITH A NEW FEEDER TO MAIN SWITCHBOARD PER KEYNOTE #3.
- RECONNECT EXISTING PANEL WITH A NEW FEEDER TO MAIN SWITCHBOARD AS INDICATED.

GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE SHORT CIRCUIT STUDY, PROTECTIVE DEVICE COORDINATION STUDY AND ARC FLASH STUDY FOR THE PROJECT COMPLETE ELECTRICAL DISTRIBUTION SYSTEM. SUBMIT TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW. PROVIDE ALL SHORT CIRCUIT DEVICE AND EQUIPMENT CHARACTERISTIC INFORMATION. FOR ALL ELECTRICAL COMPONENTS PROVIDE TIME - CURRENT CURVES FOR ALL OVERCURRENT PROTECTIVE DEVICES IN THE SUBMITTAL. SET AND ADJUST ALL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE STUDY PRIOR TO ENERGIZING EQUIPMENT.
- THE CONTACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERTINENT INFORMATION NECESSARY IN ORDER TO PERFORM THE REQUIRED SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - CONTACTING THE SERVING POWER UTILITY TO OBTAIN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE PROJECT POINT OF CONNECTION AND/OR SECONDARY OF THE SERVING UTILITY COMPANY SERVICES TRANSFORMER(S)
 - FIELD INVESTIGATION TO DETERMINE THE SHORT CIRCUIT CURRENT RATING FOR ANY EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT ELECTRICAL CHARACTERISTICS FOR ALL PROPOSED NEW ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE APPROVED PERMANENT LABELS FOR ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT TO CLEARLY IDENTIFY THE AVAILABLE SHORT CIRCUIT CURRENT AND ARC FLASH ENERGY LEVELS AND REQUIRED PPE (PERSONAL PROTECTIVE EQUIPMENT).
- COMPLETED WIRING INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND GROUND FAULTS BEFORE ENERGIZING WITH ACCORDANCE NEC 110.7. PROVIDE ALL NECESSARY AUXILIARY EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- ALL NEW PANELBOARDS SHALL BE FULLY RATED FOR INTERRUPTING CAPACITY. SERIES RATED EQUIPMENT SHALL NOT BE USED.
- ALL SERVICES SUPPLYING THE SAME BUILDING SHALL HAVE THE SAME GROUNDING ELECTRODE SYSTEM. TWO OR MORE GROUNDING ELECTRODES THAT ARE BONDED TOGETHER SHALL BE CONSIDERED AS A SINGLE GROUNDING ELECTRODE SYSTEM IN THIS SENSE.



EXISTING ELECTRICAL SERVICE LOAD CALCULATION			
EXISTING MAXIMUM PEAK DEMAND LOAD FOR LAST 12 MONTH (SOURCE: SMUD PREVIOUS 12 MONTHS DATA)			
		203.3	KVA
PLUS 25% OF EXISTING CONNECTED LOAD		56.9	KVA
TOTAL EXISTING CONNECTED LOAD		= 264.2	KVA
ADD NEW LOAD			
NEWLY ADDED KITCHEN EQUIPMENT	110.0	kVA ea X 1	110.0
25% OF LARGEST NEW MOTOR=	50.0	KVA @ 25% =	12.5
TOTAL ADDED LOAD		= 122.5	KVA
EXISTING AND ADDED TOTAL SERVICE LOAD			
376.7	KVA @ 120/208	VOLT . 3	PHASE = 1946
			AMPERES = 376.7
THEREFORE: EXISTING MAIN 2500 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.			

1 ONE-LINE DIAGRAM
SCALE: NONE

FOR REFERENCE ONLY

PROJECT No. :X-XX-XX
7/3/2024 14:29:07

DELTA #	DATE	ADD	REV	ADD	REV	ADD	REV

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 3751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENTRY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

ELECTRICAL ONE-LINE DIAGRAM

E-3.0

KITCHEN UPGRADES AT JOYCE E.S.:

JOYCE ELEMENTARY SCHOOL (TWIN RIVERS USD) EQUIPMENT SCHEDULE

ITEM	EQUIPMENT			ELECTRICAL							PLUMBING / MECHANICAL		
	DESCRIPTION	REMARKS	QTY	ATTACH	EQUIPMENT WEIGHT	VOLTS	HP	LO A D KW	AMPS	PHASE/CONN.	ELECTRICAL REMARKS		
01.	CORNER GUARDS/WALL & END CAPS	CUSTOM STAINLESS STEEL	LOT	5									
02.	ROOF MTD. AIR COOLED REFRIG RACK	COLDZONE MRL-2 SEE SHEET FS.06.1	1	F	581	208		30.0	3	D.	FUSE SIZE = 30.0 AMPS. CONNECTED LOAD = 20.7 AMPS. MINIMUM AMPACITY = 22.875 AMPS		
03.	42" WALL MOUNTED AIR CURTAIN	BERNER CLEAR VISION	1	A-40 FS.09.0	52	120		15.0	1	D.	PROVIDE (1) MICRO-SWITCH FOR ON/OFF DOOR OPERATION 15 AMP BREAKER DEDICATED CIRCUIT BREAKER REQUIRED		
04.	CURB MOUNTED EMPLOYEE LOCKERS	PENCO VANGUARD 621R ONE ACCESSIBLE LOCKER	LOT	FS.09.1	150								
05.	MOBILE DRY STORAGE SHELVING	METRO NC 5-TIER	7	MOBILE	95								
06.	SPARE No.		-										
07.	WALK-IN FREEZER W/TRIM	THERMALITE W/F	1	A-20 FS.09.0	776	120	0.1			D.	(2) 30W x 36" L.E.D. LIGHTS. 250W DOOR HEATER. (1) 12W L.E.D. DOOR LIGHT (SWITCHING BY THE E.C.)		
08.	EVAP. COIL - REFRIGERATION SYSTEM	COLDZONE CLEARZONE	1	B FS.06.1	55	*				*	SEE DETAIL FFS.06.0		
09.	MOBILE 4-TIER STORAGE SHELVING	METRO NCI	6	MOBILE	85								
10.	SPARE No.		-										
11.	WALK-IN COOLER W/TRIM	THERMALITE W/C	1	A-20 FS.09.0	625	120	0.1			D.	(2) 30W x 36" L.E.D. LIGHTS. (1) 12W L.E.D. DOOR LIGHT (SWITCHING BY THE E.C.)		
12.	EVAP. COIL - REFRIGERATION SYSTEM	COLDZONE CLEARZONE	1	B FS.06.1	55	*				*	SEE DETAIL FFS.06.0		
13.	MOBILE 4-TIER STORAGE SHELVING	METRO NCI	5	MOBILE	85								
14.	SPARE No.		-										
15.	METRO DESK 2449FS SHELF, 3350UP POSTS 1342C3NBL 015HELF, SP39NC FRAM	METRO NC 5-TIER	1	MOBILE	55	120		15.0	1	C.O.	DEDICATED CIRCUIT REQUIRED W/DATA LINE TO SERVER (2) CONVENIENCE OUTLETS		
16.	L-SHAPED WALL SHELF	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1	A-17 FS.09.0	60								
17.	L-SHAPED POT & PAN SINK ASSEMBLY	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1	A-2 FS.09.0	720								
18.	3-COMPARTMENT SINK	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1										
19.	TWIST WASTES W/COVERS	T&S BRASS 9-3922-01	3										
20.	SPLASH MOUNTED FAUCETS	T&S BRASS R-6590-4	2		5								
21.	MOBILE TRANSPORT CARTS	LARGEIDE 311	2	MOBILE	65								
22.	SPARE No.		-										
23.	ACCESSIBLE HAND SINK	WIDAP & P.T. DISPENSER JOHN BOOS PHS-ADA-PSTD	1	A-26 FS.09.1	35								
24.	WALL MOUNTED FILL FAUCET	17" DOUBLE JOINTED T&S BRASS B&OM	1	A-1 FS.09.1	15								
25.	MOBILE 6-OPEN BURNER W/CABINET BASE	VULCAN W&BMS	1	A-41 FS.09.1	435								
26.	COMBI OVEN W/(2) RACKS/WATER FILTER	RATIONAL CP-26-11G W/AS WATER F.D.	1	A-11 FS.09.1	835	208		15.0	1	D.	DEDICATED CIRCUIT W/DATA LINES TO SERVER 15.0 AMP CIRCUIT BREAKER REQUIRED		
27.	MOBILE DOUBLE CONVECTION OVEN	BLOKETT DFC-11065-DSR W/OUK DISCONNECT	1	A-40 FS.09.1	1095	(2)120			(2)8.0	(2)1	(2)C.O.	NEMA 5-15P	
28.	TYPE ONE EXHAUST HOOD	EL-50-MS-S&DCA-300-56 SEE SHEET FS.01.1	1		939	120	0.1					(4) 17W L.E.D. LIGHT FIXTURES SWITCHING BY THE ELECTRICAL CONTRACTOR BY THE H.V.A.C. CONTRACTOR VERIFY ELECTRICAL REQUIREMENTS	
29.	EXHAUST SYSTEM	SPEC'D BY THE MECH. ENG. PROVIDED BY H.V.A.C. CONTR.	1										
30.	MAKE-UP AIR SYSTEM	SPEC'D BY THE MECH. ENG. PROVIDED BY H.V.A.C. CONTR.	1										
31.	FIRE SUPPRESSION SYSTEM PIPING SYSTEM	ANKER R-102 (UNLISTERED) SEE DETAIL FFS.01.1	1										
32.	FIRE SUPPRESSION SYS. CONTROL AUTOMAN	ANKER R-102 PART OF ITEM 31	1	A-6 FS.09.0	75	120		13.0	1	D.	20 AMP DEDICATED CIRCUIT		
33.	FIRE SUPPRESSION SYSTEM MANUAL PULL	ANKER R-102 PART OF ITEM 31	1										
34.	S/S WALL FLASHING W/HOOD TRIM	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1										
35.	MOBILE 1-SECT PASS-THRU REFRIGERATOR	TRAUSEN RRT-132-WP/TPFS SELF-CONTAINED	1	MOBILE	405	120		7.2	1	C.O.	(1) CONVENIENCE OUTLET (DROP-CORD & PLUG) NEMA 5-20P. STUB-DOWN FROM CEILING		
36.	PREP TABLE W/(2) DRAWERS	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1	A-2 FS.09.0	880	(3)120		(3)15.0	(3)1	(3)C.O.	(3) CONVENIENCE OUTLETS		
37.	2-COMP. PREP SINKS W/ SINK COVERS	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	2										
38.	SPLASH MOUNTED FAUCET	T&S BRASS R-6501	1		5								
39.	TWIST WASTES W/COVERS	T&S BRASS 9-3922-01	2										
40.	WALL MOUNTED SHELF	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1		65								
41.	MOBILE HEATED CABINET	CHECK COF H-18-PIVS-18AD	1	MOBILE	272	120		16.6	1	C.O.	(1) CONVENIENCE OUTLET (DROP-CORD & PLUG) NEMA 5-20P. STUB-DOWN FROM CEILING		
42.	MOBILE DRYING RACKS	METRO PREWASH-ROR	2	MOBILE	85								
43.	MOBILE PREP TABLE W/(2) DRAWERS	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1	MOBILE	880	(2)120		(2)15.0	(2)1	(2)C.O.	(2) CONVENIENCE OUTLETS (DROP-CORD & PLUG) STUB-DOWN FROM CEILING		
44.	MOBILE ACCESSIBLE TABLE	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	1	MOBILE	150	120		15.0	1	C.O.	(1) CONVENIENCE OUTLET		
45.	HAND SINK W/FAUCET WR&L SPLASH	WIDAP & PAPER DISPENSERS KONAIME TWC011-PIE-D	1	A-28 FS.09.1	35								
46.	SPARE No.		-										
47.	SPARE No.		-										
48.	SPARE No.		-										
49.	S/S WALL FLASHING OPENING TRIM	CUSTOM STAINLESS STEEL BULD TO ANSINF STANDARDS	LOT										
50.	STUDENTS HOT/COLD SERVING COUNTER	DUKE CUSTOM SEE KEY	1	A-5 FS.09.0	1250	120		15.0	1	C.O.	(1) CONVENIENCE OUTLET		
51.	DROP-IN 4-PAN REFRIG COLD WELLS	DUKE AD-4M-N7 DRY OPERATIONS	1		230	120		4.2	1	C.O.	NEMA 5-15P		
52.	ADJUSTABLE SNEEZE GUARD W/END GLASS	DUKE MFG T&C2-74	1		85								
53.	DROP-IN 3-PAN HOT/COLD FOOD UNIT	DUKE MFG DRY OPERATIONS	1		198	120		16.0	1	C.O.	NEMA 5-20P		
54.	ADJUSTABLE SNEEZE GUARD W/ END GLASS	DUKE MFG T&C2-89	1		85								
55.	MOBILE MILK COOLER	BEV-ARE 674M-1-0 SELF-CONTAINED	1	MOBILE	334	120		3.3	1	C.O.	NEMA 5-15P		
56.	MOBILE CONDIMENT CART	DUKE MFG TIT-4B&S	1	MOBILE	75								
57.	MOBILE ACCESS. P.O.S. STAND W/DRAWER	DUKE MFG T&T-65SS	1	MOBILE	250								
58.	POINT-OF-SALE SYSTEM	PROVIDED BY SCHOOL DISTRICT INSTALLED BY THE G.C.	1		15	120		5.0	1	C.O.	DEDICATED CIRCUIT W/DATA LINES TO SERVER VERIFY ELECTRICAL REQUIREMENTS		
59.	CARD READERS	PROVIDED BY SCHOOL DISTRICT INSTALLED BY THE G.C.	2		5	120		5.0	1	C.O.	DEDICATED CIRCUIT W/DATA LINES TO SERVER VERIFY ELECTRICAL REQUIREMENTS		
60.	SPARE No.		-										
61.	TRASH CAN W/DOLLY AND LID	RUBBERMAID FG29-2000-GRAY	1	MOBILE									
62.	SPARE No.		-										
63.	SPARE No.		-										
64.	SPARE No.		-										
65.	WALL BACKING	PROVIDED BY S.E.C. SEE KEYNOTE 13 SHEET FS.05.0	LOT	FS.09.0									

NOT APPLICABLE

Branch Panel: K

Location: KITCHEN 100
Supply From: M58
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.L.C. Rating: 35,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

(1) PAINT BREAKER RED AND PROVIDE LOCK-ON DEVICE.

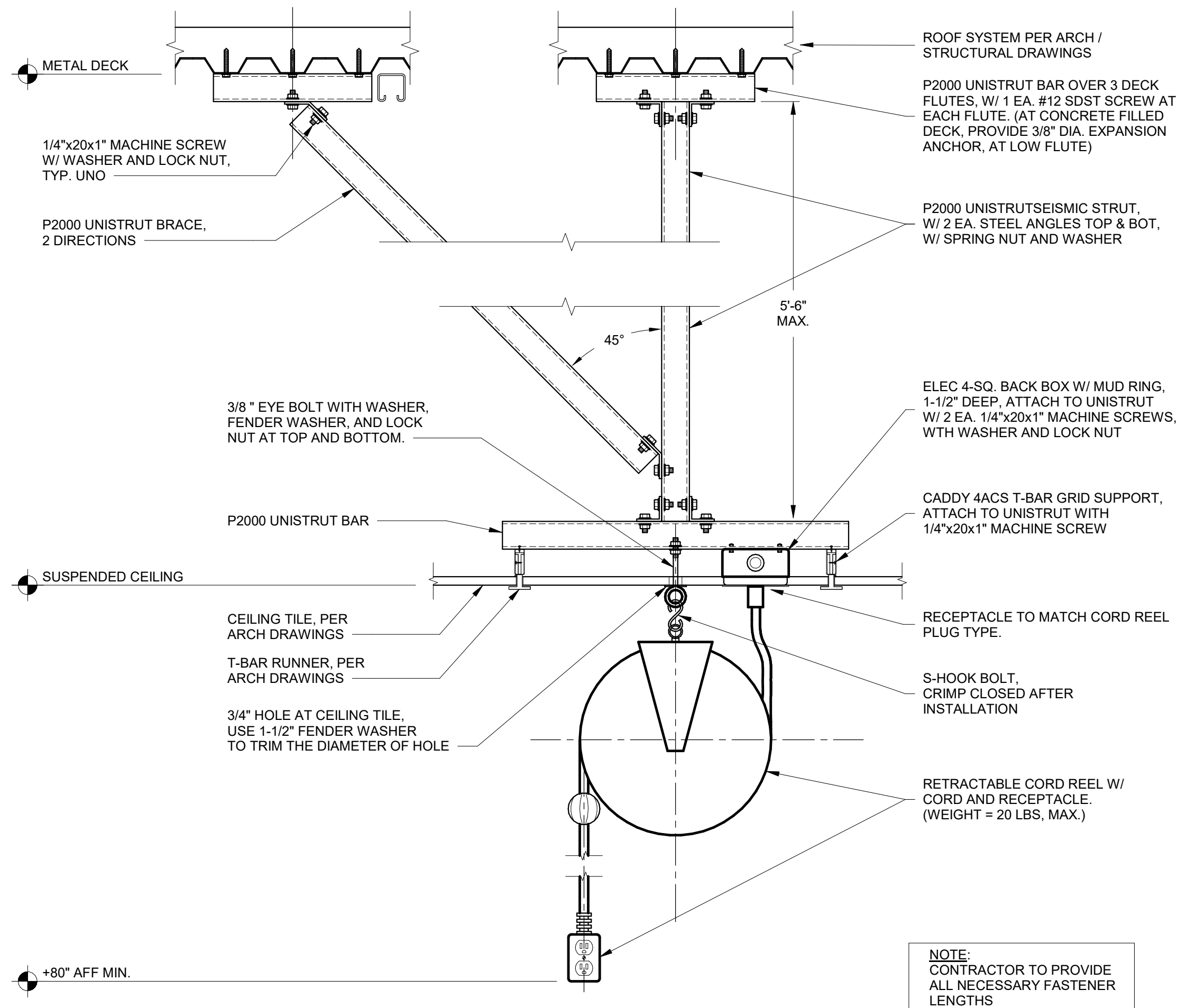
CKT	(E) PANEL "MPR1"	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	--	NEW EXTERIOR LIGHTING	225 A	3	0			258			1	20 A	NEW EXTERIOR LIGHTING	2
3	--	ROOFTOP KEF-1	--	--		0		728			2	20 A	ROOFTOP KEF-1	4
5	--	ROOFTOP MAU-1	--	--		0		1,297			3	20 A	ROOFTOP MAU-1	6
7	--	INTERIOR LIGHTING	20 A	1	436			1,297					--	8
9	--	GAS WATER HEATER IGNITER	20 A	1	480			1,297					--	10
11	--	REC - WATER HEATER CLOSET	20 A	1	180			1,297					--	12
13	--	REC - HALLWAY	20 A	1	360			100					1	20 A
15	--	AIR CURTAIN - KITCHEN HALL	20 A	1	1,800			192					1	20 A
17	--	REC - DRY STORAGE 101	20 A	1				360					1	20 A
19	--	EXTERIOR REFRIGERATION RACK	30 A	3	2,486			416					1	20 A
21	--	--	--	--				2,486					1	20 A
23	--	--	--	--				2,486					360	1
25	--	REC - MP ROOM	20 A	1	180			180					1	20 A
27	--	REC - COUNTER KITCHEN 100	20 A	1				1,992					1	20 A
29	--	REC - COUNTER KITCHEN 100	20 A	1				180					1,992	1
31	--	REC - MILK COOLER MP ROOM	20 A	1	396			390					1	20 A
33	--	REC - COUNTER KITCHEN 100	20 A	1	1,800			835					1	20 A
35	--	ITEM #41	20 A	1				1,992					1,100	1
37	--	PREP TABLE OUTLETS	20 A	1	1,800			1,100					1	20 A
39	--	PREP TABLE OUTLETS	20 A	1	1,800			180					1	20 A
41	--	PREP TABLE OUTLETS	20 A	1				1,800					180	1
43	--	ROLL-UP DOOR	20 A	1	800			180					1	20 A
45	--	CIRCULATION PUMP CP-1	20 A	1			41			864			1	20 A
47	--	FIRE ALARM POWER SUPPLY	20 A	1				600					1	--
49	--	FIRE ALARM AMPLIFIER	20 A	1	600								1	--
51	--	ROOFTOP RECEPTACLES	20 A	1				180					1	--
53	--	SPACE	--	--				--					1	--
Total Load: 10,819 VA														
Total Amps: 90 A													128 A	113 A

Legend:

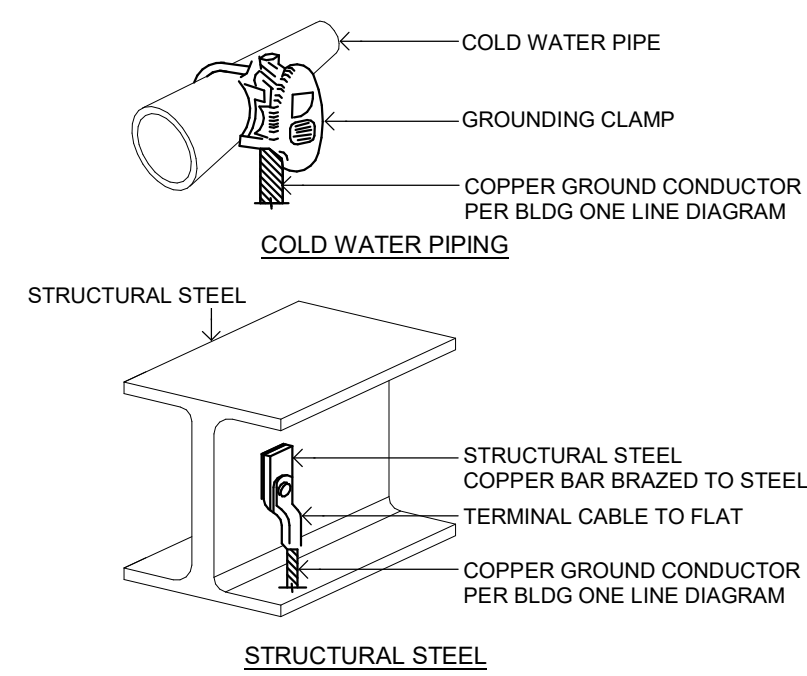
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	694 VA	125.00%	867 VA	
Motor	12189 VA	115.31%	14056 VA	Total Conn. Load: 39,044 VA
Power	3099 VA	100.00%	3099 VA	Total Est. Demand: 34,834 VA
Receptacle	22498 VA	72.22%	16249 VA	Total Conn. Current: 108 A
Spare	720 VA	100.00%	720 VA	Total Est. Demand Current: 97 A

Notes:

LIGHTING FIXTURE SCHEDULE													
Type	Manufacturer	Model	Lamp	Lumens	Color Temp	Volts	Watts	Mounting	Description				
A	H.E. WILLIAMS	50-G-S-24-L59-835-S-AF19156-DIM-120	LED	6231 lm	3500 K	120 V	48.0 W	T-BAR	LAY-IN 2X4. INVERT LENS FOR WIPEDOWN				
A1	H.E. WILLIAMS	50-G-S-22-L43/835-S-AF19156-DIM-120	LED	4363 lm	35								



7 CORD DROP RECEPTACLE ABOVE TABLE DETAIL
SCALE: 1/8" = 1'-0"



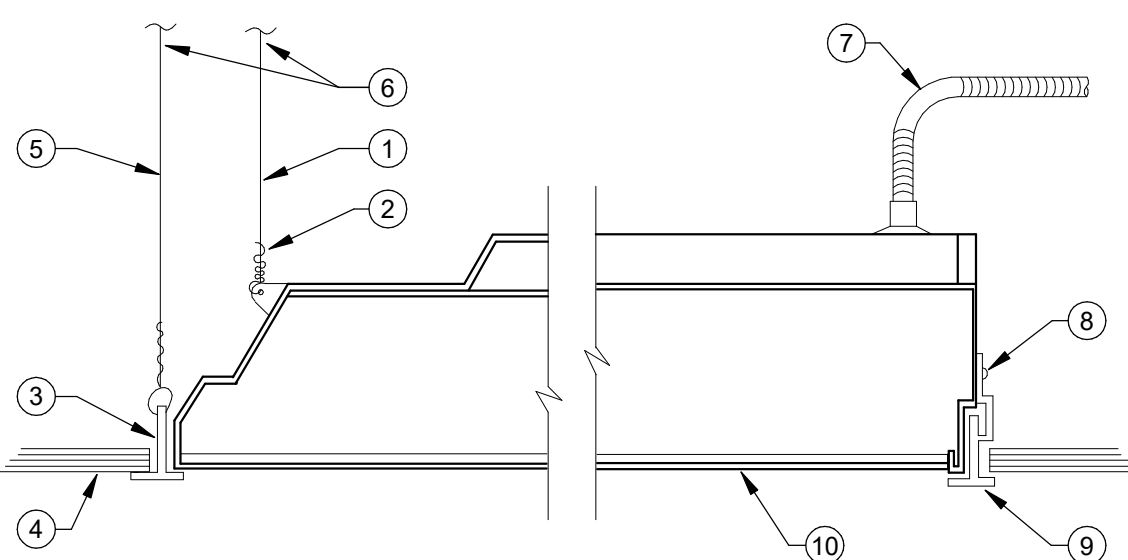
8 GROUNDING CONNECTION METHODS DETAIL
SCALE: NONE

GENERAL NOTES:

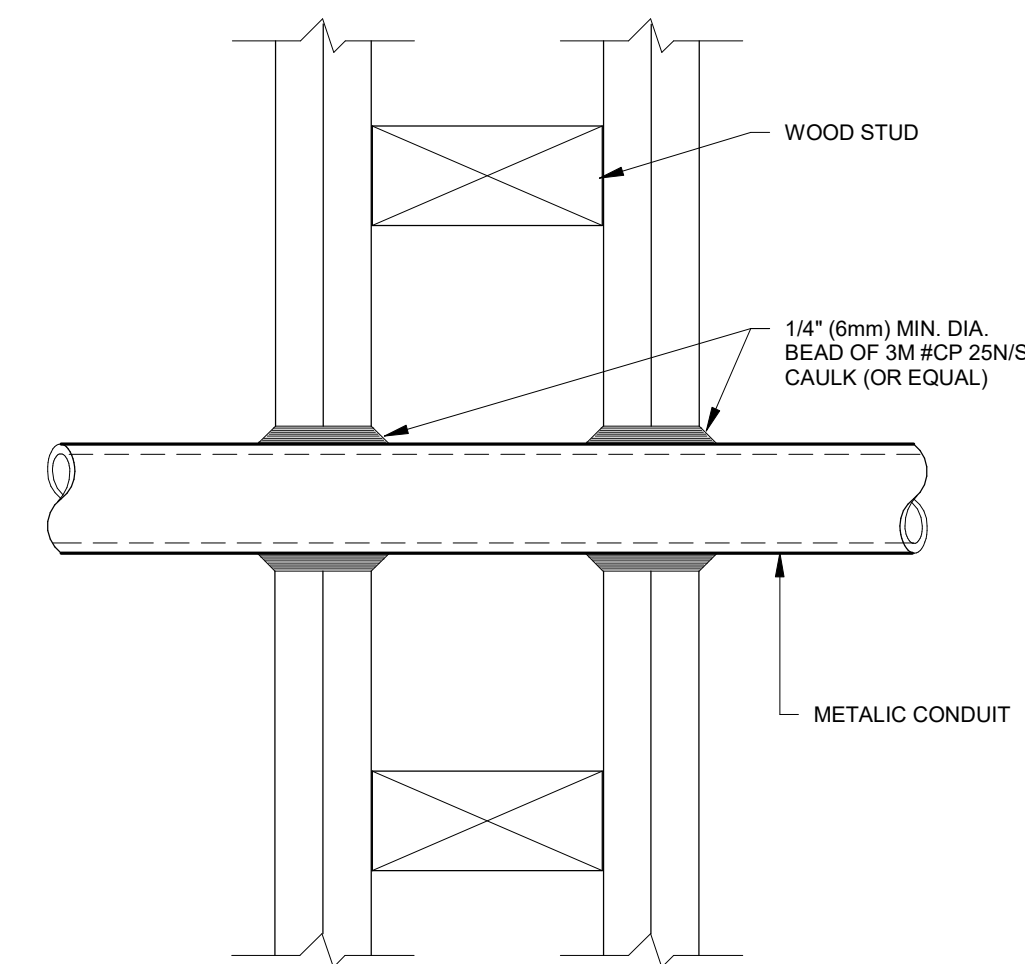
- INSTALL LIGHT SUPPORTS IN ACCORDANCE WITH DSA REQUIREMENTS, AND INTERPRETATIONS OF REGULATIONS IR 25-2.
- SUPPORT T-BAR CEILING LAY-IN LIGHT FIXTURES IN ACCORDANCE WITH THE FOLLOWING TABLE:

TYPE OF CEILING	LIGHT FIXTURE SIZE	FIXTURE WEIGHT	WIRE HANGERS
HEAVY DUTY	2' X 4' OR LESS	< 56 LBS.	2 #12 GA. (SLACK)
HEAVY DUTY	4' X 4'	< 56 LBS.	#12 GA. (SLACK)
INTERMEDIATE	ALL	ALL	#12 GA. (TAUT)
ALL	ALL	> 56 LBS.	4 #12 GA. (TAUT)

- KEYED NOTES:**
- LIGHT FIXTURE SUPPORT WIRE, #12 GALVANIZED IRON STEEL WIRE, SECURE TO STRUCTURAL MEMBERS SIMILAR TO CEILING SUPPORT WIRES.
 - TYPICAL - 4 TIGHT TURNS MINIMUM WITHIN 1'-1/2".
 - CROSS T-BAR.
 - TYPICAL - ACOUSTICAL TILE.
 - CEILING SUPPORT WIRES PER ARCHITECTURAL DRAWINGS.
 - SEE STRUCTURAL DRAWINGS FOR UPPER ATTACHMENT TO BUILDING STRUCTURE.
 - TYPICAL FLEX CONDUIT W/ ALL NECESSARY FITTINGS TO JUNCTION BOX. PROVIDE #12 GROUND WIRE AND BOND TO LIGHT FIXTURE.
 - T-BAR CLIP AT LIGHT FIXTURE (OR ROWS) SHALL HAVE 2 CLIPS AT EACH END. SEE SPECS.
 - MAIN T-RUNNER.
 - TYPICAL RECESSED FIXTURE. SEE SCHEDULES.

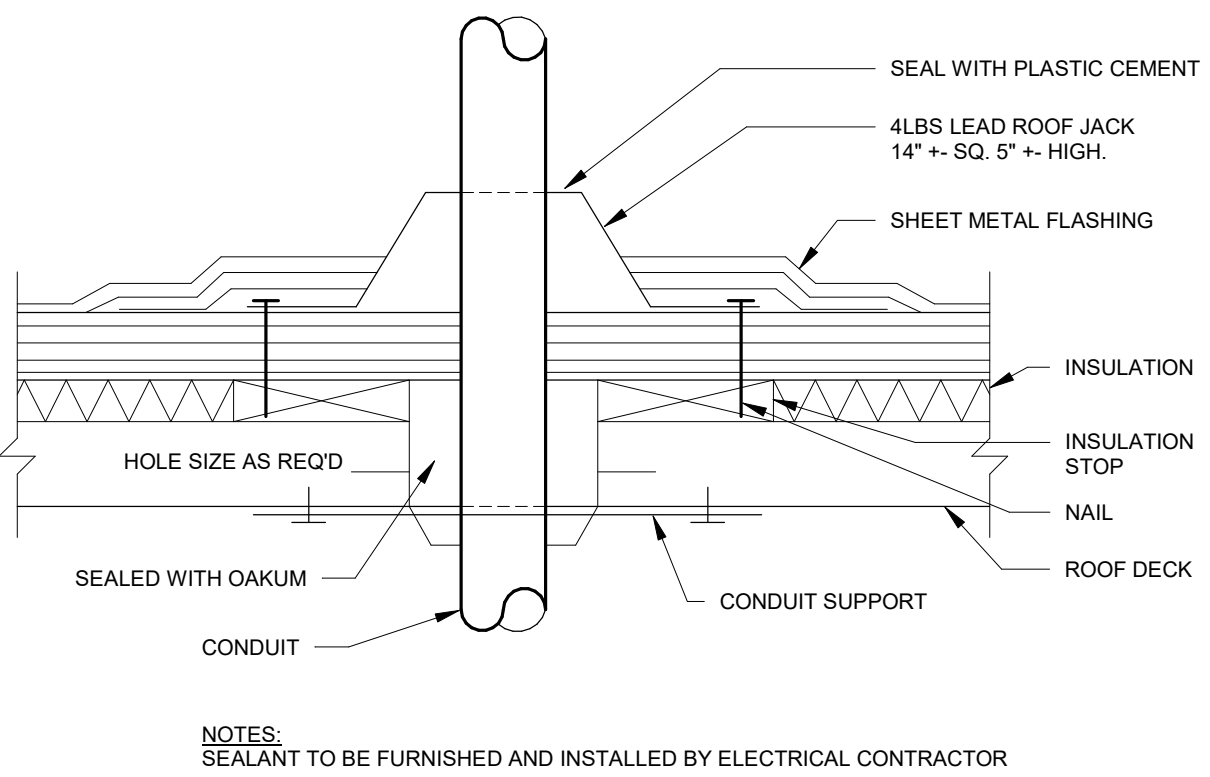


4 RECESSED TROFFER IN T-BAR CLG MOUNTING
SCALE: NONE

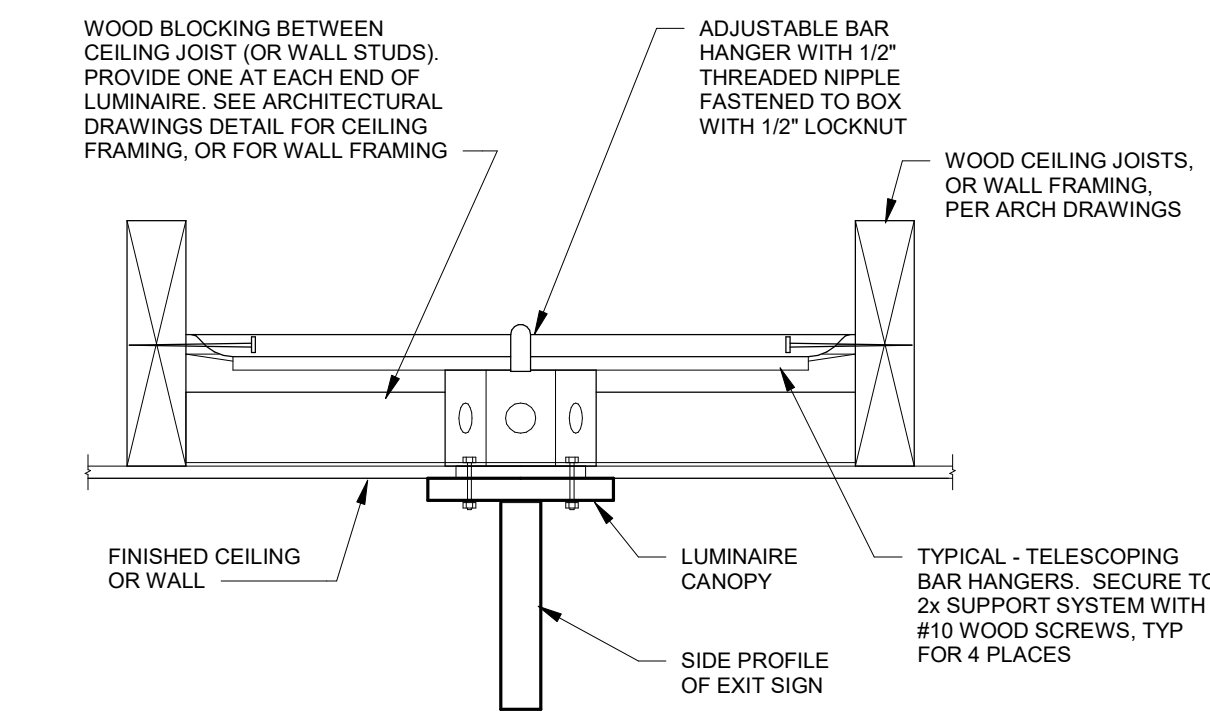


- WOOD STUD WALL**
- NOTES:**
- THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
 - FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N'S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT PIPE AT ITS EGRESS FROM THE WALL.
 - THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
 - INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
 - THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

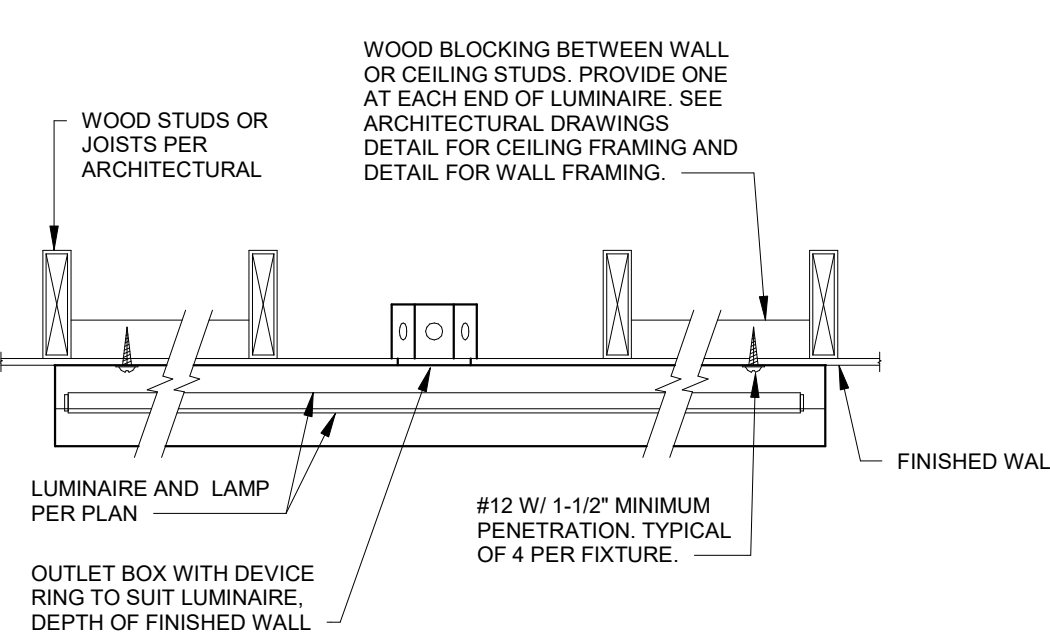
1 CONDUIT PENETRATION FIRESTOP DETAIL - WOOD FRAMING
SCALE: NONE



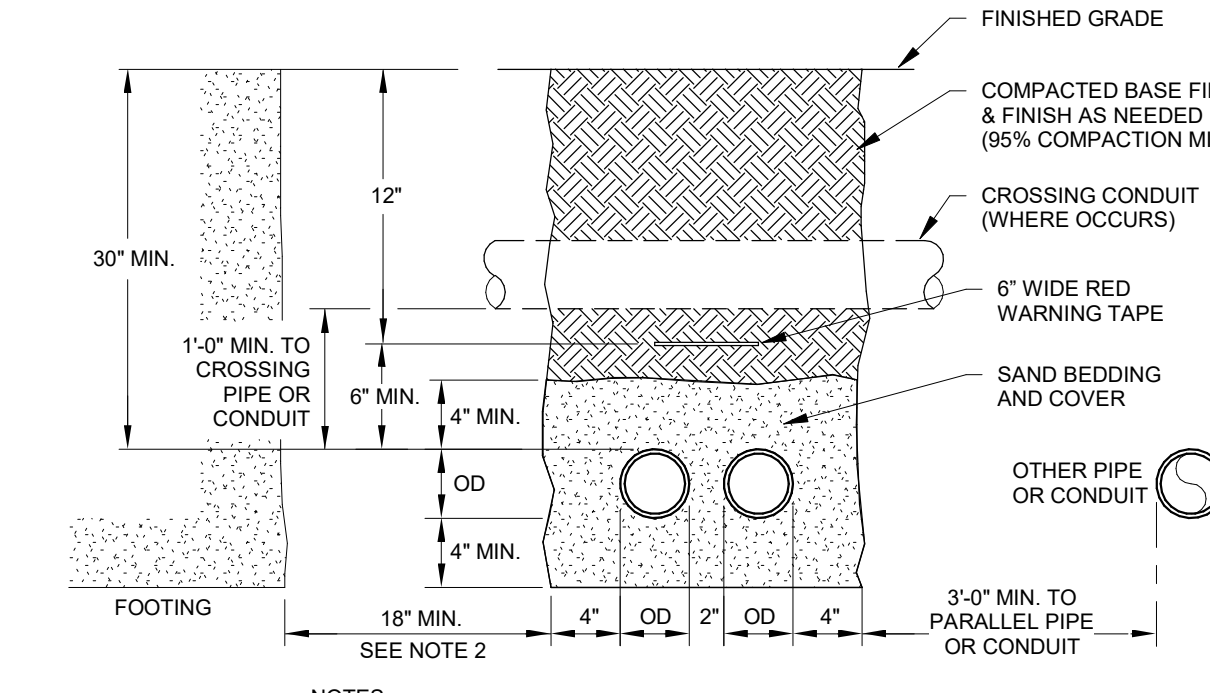
5 ROOF CONDUIT PENETRATION DETAIL
SCALE: NONE



2 EXIT SIGN MOUNTING DETAIL
SCALE: NONE



6 WALL-CLG MTD LT FIXT WOOD FRAMING
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

FOR REFERENCE ONLY

PROJECT No. :X-XX-XX
7/3/2024 14:29:18

DATE	BY	DESCRIPTION

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENIARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

ELECTRICAL DETAILS

ED-6.0

KITCHEN UPGRADES AT JOYCE E.S.:

X-XX-XX

FIRE ALARM ABBREVIATIONS/SYMBOLS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
A	ABOVE CEILING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AFB	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AHJ	AUTHORITY HAVING JURISDICTION	NPU	NETWORK PROCESSING UNIT
ALM	ALARM	NTS	NOT TO SCALE
ANN	ANNUNCIATOR	PAP	PRE-ACTION PANEL
BMS	BUILDING MANAGEMENT SYSTEM	PAP	PRE-ACTION PANEL
C	CONDUIT	PB	PULL BOX
CB	CALIFORNIA BUILDING CODE	(R)	RELOCATE / RELOCATED
CEC	CALIFORNIA ELECTRICAL CODE	(RC)	EXISTING TO REMOVE AND COVER
CFC	CALIFORNIA FIRE CODE	(RD)	EXISTING DEVICE TO BE RELOCATED
CD	CEILING MOUNTED	(RL)	RELOCATED DEVICE
CM	CANDELA RATING	(RR)	REMOVE EXISTING & REPLACE WITH NEW
DET	DETECTOR	SCC	STATUS COMMAND CENTER
DGP	DATA GATHERING PANEL	SLC	SIGNALING LINE CIRCUIT
(E)	EXISTING TO REMAIN	SMK	SMOKE
EM	EMPTY CONDUIT	SUPV	SUPERVISORY
EC	EMERGENCY	TOS	TOP OF SHAFT
EMT	ELECTRICAL METALLIC TUBING	TRBL	TROUBLE
EOL	END OF LINE	TS	TAMPER SWITCH
EPO	EMERGENCY POWER OFF	Typ	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	VCC	VOICE COMMAND CENTER
FAPS	REMOTE FIRE ALARM POWER SUPPLY	VT	VALVE TAMPER
FATC	FIRE ALARM TERMINAL CABINET	W	WATTAGE
FBO	FURNISHED BY OTHERS	W/	WITH
FCC	FIRE COMMAND CENTER	W/O	WITHOUT
FSD	FIRE SMOKE DAMPER	WF	WATERPROOF
FTR	FIRE ALARM TRANSDUCER	WG	WIRE GUARD
GB	GROUND BOX	WP	WEATHERPROOF
H	HIGH HUMIDITY	(X)	REMOVE
HT	HEIGHT	XFMR	TRANSFORMER
HVAC	HEATING VENTILATION & AIR CONDITIONING		
IMS	INFORMATION MANAGEMENT SYSTEM		
MAX	MAXIMUM		
MIN	MINIMUM		
(N)	NEW		
NA	NOT APPLICABLE		
N/A	NOT AVAILABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		
NDU	NETWORK DISPLAY UNIT		

FIRE ALARM GENERAL DEMO NOTES

- ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
- FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE BUILDING OWNER SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING BUILDING HOURS AND WHENEVER THE BUILDING IS OCCUPIED. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER BUILDING HOURS AND WHENEVER THE BUILDING IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
- ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
- WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
- WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
- COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
- WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
 - REMOVE ALL WIRE AND CABLE.
 - REMOVE ALL DEVICES AND EQUIPMENT.
 - REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
 - CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM GENERAL NOTES

- THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB875) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2022 CALIFORNIA FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.
- LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS-BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
- CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
- PER DSA IR F-2 SECTION 1. WHEN, AS PART OF AN ALTERATION OR MODERNIZATION PROJECT OR CONSTRUCTION OF A NEW BUILDING A FIRE PROTECTION/LIFE SAFETY IS PLACED OUT OF SERVICE AND ANY OCCUPIED PORTION OF AN EXISTING BUILDING UNDERGOING RENOVATION OR OCCUPIED BUILDINGS OR PORTIONS OF THE CAMPUS, THEN THE SCHOOL DISTRICT, DSA, AND THE ARCHITECT/ENGINEER IN GENERAL, RESPONSIBLE CHARGE OF THE CONSTRUCTION PROJECT SHALL BE NOTIFIED IMMEDIATELY BY THE PROJECT INSPECTOR. IT WILL BE THE SCHOOL DISTRICT'S RESPONSIBILITY TO ESTABLISH, INSTRUCT AND MAINTAIN FIRE WATCH PERSONNEL IN/A THE AFFECTED BUILDING(S), WHERE A FIRE ALARM SYSTEM IS OUT OF SERVICE. WARNING SIGNS SHALL BE POSTED AT ALL ENTRANCES TO ANY BUILDING TO INFORM THE OCCUPANTS. MODERNIZATIONS OF EXISTING BUILDINGS OR CONSTRUCTION OF NEW BUILDINGS THAT ARE NOT OCCUPIED BY THE PUBLIC, STAFF OR STUDENT DURING CONSTRUCTION, SHALL NOT REQUIRE A FIRE WATCH AS LONG AS THE CONSTRUCTION EFFORTS DO NOT AFFECT OTHER OCCUPIED AREAS OF THE BUILDING.
- REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE-USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC., WILL NOT BE CONSIDERED.
- NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTIC SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA FIRE CODE, ARTICLE 907, CBC 305 AND 2022 CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
- FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH 2022 NFPA 72 AND CBC 907.6.6.
- CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT-TO-POINT DESCRIPTION SCHEDULES.
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 907.6.3.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING INSTALLATION AND FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SYSTEM SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
- ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
- BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH 2022 NFPA 72, SECTION 7.5.2 AND 7.6.
- CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE, IN ACCORDANCE WITH CHAPTER 24 OF THE IBC AND A MINIMUM OF 24 INCH SCORE OF 24 INCH. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (2022 NFPA 72, 18.4.2.1)
- WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND THEIR TOPS AT 96" MAXIMUM FROM FINISHED FLOOR.
- WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
- A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (2022 NFPA 72, 18.5.3.1, 18.5.3.6 AND 18.5.3.7)
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3" FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
- CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS" INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL APPLIED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE.
- NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
- NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAIL.
- ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER 2022 NFPA 72, 10.6.5.1.2 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
- ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER 2022 NFPA 72, 10.6.5.2, USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY, COORDINATE WITH ELECTRICAL.
- MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE. INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
- PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (2022 NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72, 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72, 7.7.2.5).

EQUIPMENT ANCHORAGE NOTES

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A-1.18 THROUGH 1617A-1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT BUILDING AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- TEMPORARILY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

APPLICABLE CODE: 2022 CBC

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A-1.24, 1617A-1.25, AND 1617A-1.26.

THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM) # AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES:

- 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR), (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS.)
- 2022 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR), (2020 EDITION NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS.)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS.)
- 2022 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS.)
- 2022 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, CCR), (2022 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS)
- 2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR), (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS.)
- 2022 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24, CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

- 2022 CBC, CHAPTER 35.
- 2022 CFC, CHAPTER 80.
- 2022 NFPA 72, AS AMENDED.

FIRE ALARM DEVICE LEGEND

SYMBOL	QTY	EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
(FACI)	1	EXISTING	FIRELITE	MS-9600JDL5	INTELLIGENT ADDRESSABLE FACP WITH OPTIONAL 2ND LOOP, DACT-U02	7165-0075.0217
	1	EXISTING	FIRELITE	MS-9600JLS MAIN BOARD	INTELLIGENT ADDRESSABLE FACP WITH OPTIONAL 2ND LOOP, DACT-U02 MAIN BOARD	7165-0075.0217
(NAC)	1	NEW	FIRELITE	FL-PS6	6.0A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE METAL ENCLOSURE	7315-0075.0510
(AMP)	1	NEW	FIRELITE	ECC-SDA (50W, 70V)	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-0028.0225
	1	NEW	FIRELITE	ECC-CE4 (70V)	DISTRIBUTED (REMOTE) AUDIO AMPLIFIER, 50 WATTS	7300-0075.0227
	1	NEW	FIRELITE	ECC-SDA MAIN BOARD (50W, 70V)	SPEAKER CIRCUITZONE EXPANDER MODULE	7300-0075.0227
(F)	1	NEW	FIRELITE	BG-12LX	ADDRESSABLE MANUAL PULL STATION WITH INTERFACE MODULE MOUNTED INSIDE	7150-0028.0184
(AM)	1	NEW	FIRELITE	MMF-300	ADDRESSABLE MONITOR MODULE W/ FLASHCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	7300-0075.0185
(AM) RM	2	NEW	FIRELITE	CRF-300	ADDRESSABLE RELAY MODULE CONTAINING TWO ISOLATED SETS OF FORM-C CONTACTS, WHICH OPERATE AS A 2-POST SWITCH MOUNTS DIRECTLY TO A 4" (10.16 CM) BOX, SURFACE MOUNT USING THE 388503	7300-0075.0185
(L)	2	NEW	FIRELITE	DNRW	WATERTIGHT INTELLIGENT NON-RELAY PHOTOELECTRIC LOW FLOW DUCT SMOKE DETECTOR HOUSING, INCLUDES SB886R/IV DETECTOR	3042-1653.0508
(H)	2	NEW	FIRELITE	H365 W/B300-6	WHITE, LOW-PROFILE 135°F FIXED THERMAL SENSOR, STANDARD BASE	7270-0075.0501; 7300-1653.0109
(H)	5	NEW	FIRELITE	H365HT W/B300-6	WHITE, LOW-PROFILE 190°F FIXED THERMAL SENSOR, STANDARD BASE	7270-0075.0501; 7300-1653.0109
(S)	3	NEW	FIRELITE	SD365 W/B300-6	WHITE, ADDRESSABLE PHOTOELECTRIC DETECTOR, STANDARD BASE	7272-0075.0502
(WP)	2	NEW	SYSTEM SENSOR	SFSRK	OUTDOOR SPEAKER STROBE, STANDARD CD	7320-1653.0201
(C)	1	NEW	SYSTEM SENSOR	SFSCVL	SPEAKER/STROBE CEILING MOUNT, WHITE	7320-1653.0505
(X)	1	NEW	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE	7300-1653.0525

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION	JACKET COAT	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP FPLR, SOLID	RED/BLK	NAC STROBE	INTERIOR	
C	2#16 STP FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	4#16 UTP FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
S	4#16 UTP FPLR, SOLID	RED/BLK	SBUS	INTERIOR	
AU	2#16 UTP W/PAQ225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UGND	DIRECT BURIAL CABLE
BU	2#14 UTP W/PAQ226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UGND	DIRECT BURIAL CABLE
CU	2#14 STP W/PAQ294	RED/BLK	NAC VOICE (VISUAL)	EXTERIOR/UGND	DIRECT BURIAL CABLE
DU	2#16 UTP W/PAQ225	RED/BLK	INITIATE DEVICE CIRCUIT	EXTERIOR/UGND	DIRECT BURIAL CABLE
EU	4#16 UTP W/PAQ225	RED/BLK	FAA RS485 COMM	EXTERIOR/UGND	DIRECT BURIAL CABLE
PU	2#14 UTP W/PAQ226	RED/BLK	24VDC POWER	EXTERIOR/UGND	DIRECT BURIAL CABLE
RU	2#16 UTP W/PAQ225	RED/BLK	SPEAKER RISER	EXTERIOR/UGND	DIRECT BURIAL CABLE

NOTES:

- ALL CONDUCTORS SHALL BE COPPER AND SOLID - STRANDED CONDUCTOR IS NOT ACCEPTABLE.
- MINIMUM CONDUIT SIZE IS 3/4" - CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.
- ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.

CABLE ABBREVIATIONS:

STP	SHIELDED TWISTED PAIR	PA	PUBLIC ADDRESS
SLC	SIGNAL LINE CIRCUIT	UTP	UNSHIELDED TWISTED PAIR
NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEST PENN (CABLE MANUFACTURER)
IDC	INITIATE DEVICE CIRCUIT		

SCOPE OF WORK AND BUILDING INFORMATION

- PROVIDE AND EXPAND EXISTING FIRE ALARM SYSTEM FOR KITCHEN MODERNIZATION.

OCCUPANCY CLASSIFICATION: E

TYPE OF CONSTRUCTION: V-B

NUMBER OF STORES: 1 STORY

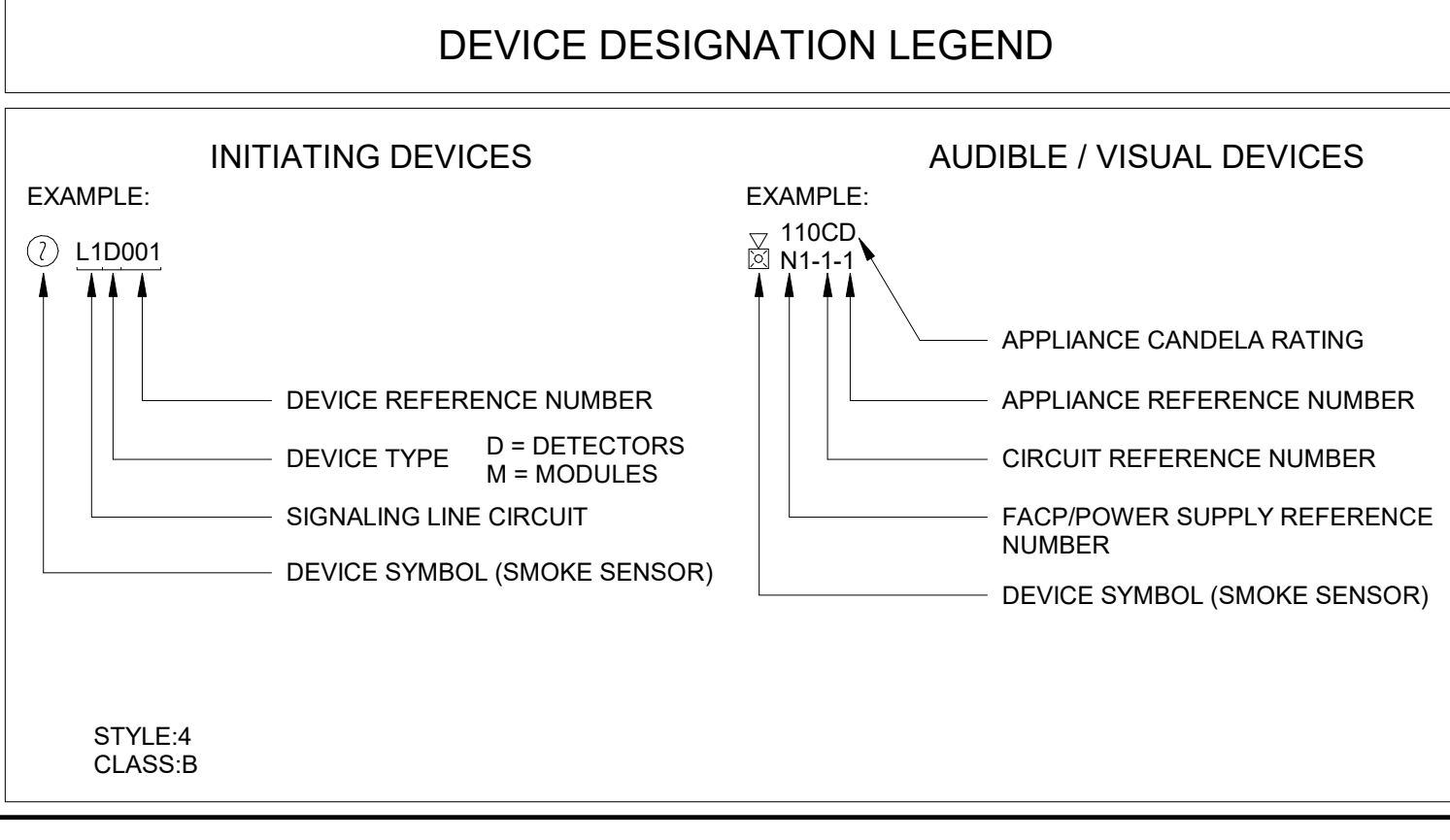
SPRINKLER PROTECTION: NO

ALTERNATIVE PROTECTION: NONE

TYPE OF SYSTEM: VOICE EVACUATION

FIRE ALARM SHEET INDEX

SHEET NUMBER	SHEET NAME
FAC.1	FIRE ALARM LEGEND & NOTES
FA.0.3	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
FAS.1.0	FIRE ALARM OVERALL SITE PLAN
FAS.1.1	FIRE ALARM ENLARGED DEMO & NEW SITE PLANS
FA.1.0	FIRE ALARM DEMO & NEW FLOOR PLANS
FAD.6.0	FIRE ALARM DETAILS



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KITCHEN UPGRADES AT JOYCE E.S.

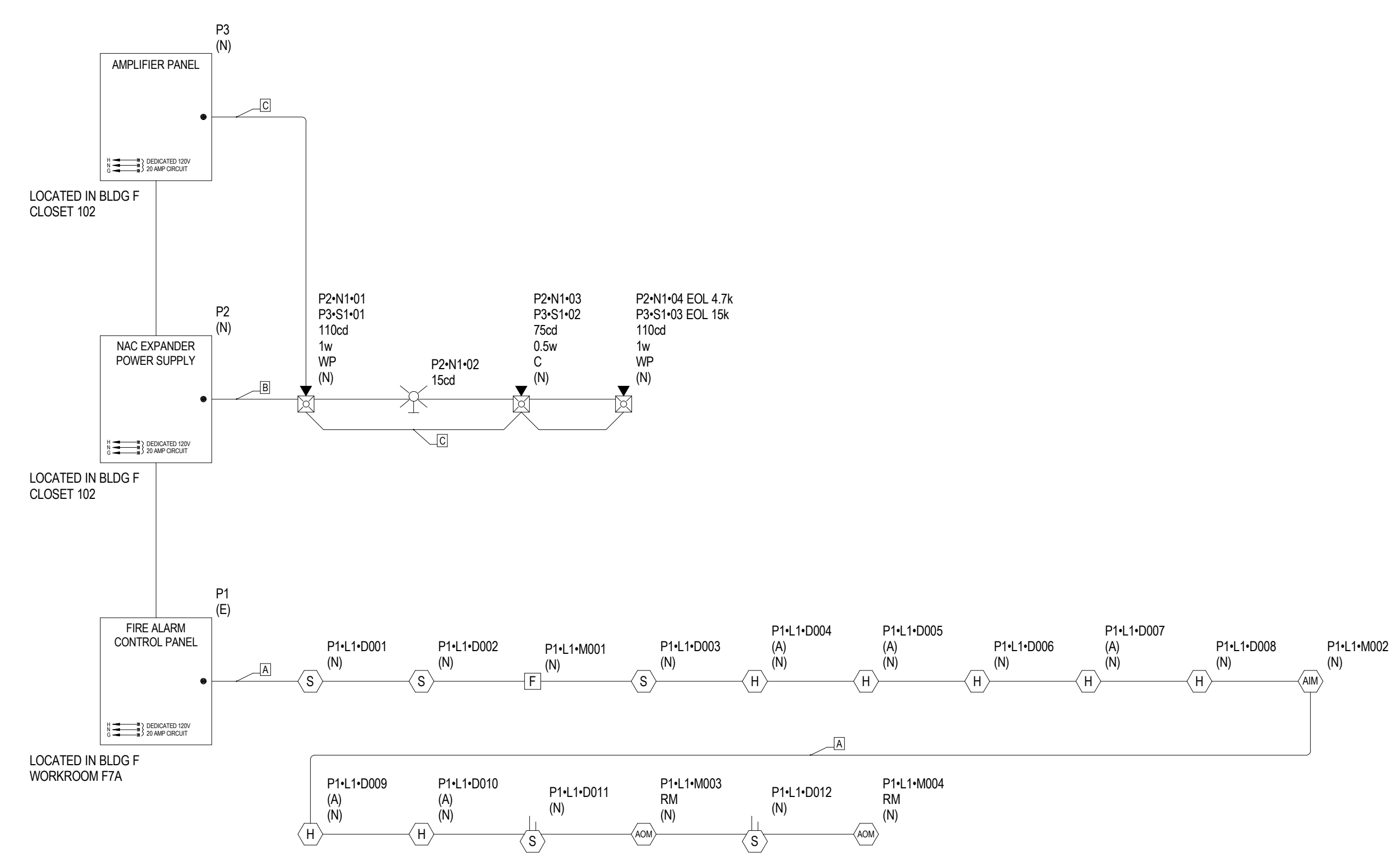
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6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

FIRE ALARM LEGEND & NOTES

FA-0.1

KITCHEN UPGRADES AT JOYCE E.S.:

X-XX-XX



1 FIRE ALARM RISER DIAGRAM
SCALE: 1/8" = 1'-0"

KEY NOTES

PANEL P1 (MS-9600DLS) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL POWER SUPPLY MAX CURRENT = 7A				TOTAL USED CAPACITY (IN ALARM) = 0.411A (5.67%)				
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)		
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
	1	MS-9600DLS Main Board	Intelligent Addressable FACET with Optional 2nd Loop, DACT-UD2 Main Board	0.103	.103	0.253	.253	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P1-L1	[F]	1	BG-12LX	Addressable manual pull station with interface module mounted inside	0.000375	.000375	0.005	.005
	[RM]	2	CRF-300	Addressable relay module containing two isolated sets of Form-C contacts, which operates as a DPDT switch. Mounts directly to a 4.0" (10.16 cm) box, surface mount using the SM8500.	0.000255	.00051	0.0065	.013
	[S]	2	DNRW	Wateright intelligent non-relay photoelectric low flow duct smoke detector housing. Includes SD36SR(A)-IV detector	0.0002	.0004	0.0045	.09
	[H]	2	H365 w/B300-6	White, Low-profile 130°F fixed thermal sensor, Standard Base	0.0002	.0004	0.0045	.009
	[H]	5	H365HT w/B300-6	White, Low-profile 130°F fixed thermal sensor, Standard Base	0.0002	.001	0.0045	.0225
	[RM]	1	MMF-300	Addressable Monitor Module W/FlashScan, Supervises Class A or Class B of Dry Contact	0.000375	.000375	0.005	.005
			[S] White, Addressable photoelectric detector, Standard Base	0.0002	.0006	0.0045	.0135	
				TOTAL STANDBY (A)	1.0666	TOTAL ALARM (A)	.411	
				REQUIRED STANDBY TIME = 24 HOURS		REQUIRED ALARM TIME = 15 MINUTES		
SECONDARY STANDBY LOAD (A)				1.0666	24	2.56	.1	
SECONDARY ALARM LOAD (A)				.411	0.25			
STANDBY AND ALARM SUBTOTAL (AMP HOURS)						2.66		
DERATING FACTOR						1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)						3.33		
PROVIDE (2) 12V 7AH BATTERIES *BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

PANEL P3 (ECC-500A (50W, 70V)) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL POWER SUPPLY MAX CURRENT = 7A				TOTAL USED CAPACITY (IN ALARM) = 0.411A (5.67%)				
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)		
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
	1	ECC-500A Main Board (50W, 70V)	Main Board for ECC-500A	0.1	.1	0.58	.58	
	1	ECC-CE4 (70V)	Speaker Circuit/Zone Expander Module	0.02	.02	0.18	.18	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P3-S1	[C]	1	SPSCWL	Speaker/Stroke Ceiling Mount, White 0.5w	0	0	0	0
	[WP]	2	SPSRK	Outdoor Speaker Strobe, Standard cd 1w	0	0	0	0
				TOTAL STANDBY (A)	12	TOTAL ALARM (A)	.76	
				REQUIRED STANDBY TIME = 24 HOURS		REQUIRED ALARM TIME = 15 MINUTES		
SECONDARY STANDBY LOAD (A)				12	24	2.88	.19	
SECONDARY ALARM LOAD (A)				.76	0.25			
STANDBY AND ALARM SUBTOTAL (AMP HOURS)						3.07		
DERATING FACTOR						1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)						3.84		
PROVIDE (2) 12V 7AH BATTERIES *BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

P2 N1 LUMP SUM REPORT			CIRCUIT SETTINGS		TOTALS		
			Starting Calculation Voltage:	20.4	Max. Voltage Drop:	.23	
			Min. Operational Voltage:	16	End Of Line Voltage:	20.17	
			Max. Circuit Current (A):	3	Voltage Drop Percent:	.12%	
			Wire Resistance (DkFt):	3.07	Total Circuit Current (A):	.533	
			Total Circuit Length (Ft):	70	Spare Current (A):	2.467	
			Distance measured using drawn segment lengths with 10.00% additional length calculated.	Total Circuit Resistance (D):	0.428671	Spare Current (A) Percent:	82.23%
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
	[SWLED]	SWLED	Strobe, Wall, White 15cd	1	0.018	.018	
	[SPSCWL]	SPSCWL	Speaker/Stroke Ceiling Mount, White 75cd	1	0.111	.111	
	[SPSRK]	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	2	0.202	.404	

Calculation Methods:
 Total Resistance (D) = Wire Resistance (DkFt) x 2 x Total Circuit Length (Ft)
 Total Voltage Drop = Total Resistance (D) x Total Circuit Current (A)

PANEL P2 (FL-PS6) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL POWER SUPPLY MAX CURRENT = 6A				TOTAL USED CAPACITY (IN ALARM) = 0.659A (11.51%)				
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)		
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
	1	FL-PS6 MAIN BOARD	Fire Alarm Power Supply Main Board	0.139	.139	0.157	.157	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P2-N1	[C]	1	SPSCWL	Speaker/Stroke Ceiling Mount, White 75cd	0	0	0.111	.111
	[WP]	2	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	0	0	0.202	.404
	[X]	1	SWLED	Strobe, Wall, White 15cd	0	0	0.018	.018
				TOTAL STANDBY (A)	.139	TOTAL ALARM (A)	.69	
				REQUIRED STANDBY TIME = 24 HOURS		REQUIRED ALARM TIME = 15 MINUTES		
SECONDARY STANDBY LOAD (A)				1.39	24	3.34	.17	
SECONDARY ALARM LOAD (A)				.69	0.25			
STANDBY AND ALARM SUBTOTAL (AMP HOURS)						3.51		
DERATING FACTOR						1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)						4.39		
PROVIDE (2) 12V 7AH BATTERIES *BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

2 FIRE ALARM BATTERY CALCULATIONS
SCALE: 1/8" = 1'-0"

FOR REFERENCE ONLY

KITCHEN UPGRADES AT JOYCE E.S.

REGISTERED PROFESSIONAL ENGINEER
ROBERT S. ZEIGLER
No. E 16762
Exp. 9-30-24
STATE OF CALIFORNIA

LICENSED ARCHITECT
ROBERT S. ZEIGLER
No. C-41340
Exp. 10-31-25
STATE OF CALIFORNIA

AGENCY APPROVAL
FIG No: *****

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ARCHITECTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.
3. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
4. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
6. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
7. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
8. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
9. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
10. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INsofar AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
 - a. REMOVE ALL WIRE AND CABLE.
 - b. REMOVE ALL DEVICES AND EQUIPMENT.
 - c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
 - d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

KEY NOTES

- 1 (E) MAIN CAMPUS FIRE ALARM CONTROL UNIT.
- 2 (N) FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED 120VAC POWER.
- 3 (N) FIRE ALARM AMPLIFIER. PROVIDE DEDICATED 120VAC.



FOR REFERENCE ONLY

1 FIRE ALARM OVERALL SITE PLAN
SCALE: 1" = 30'-0"

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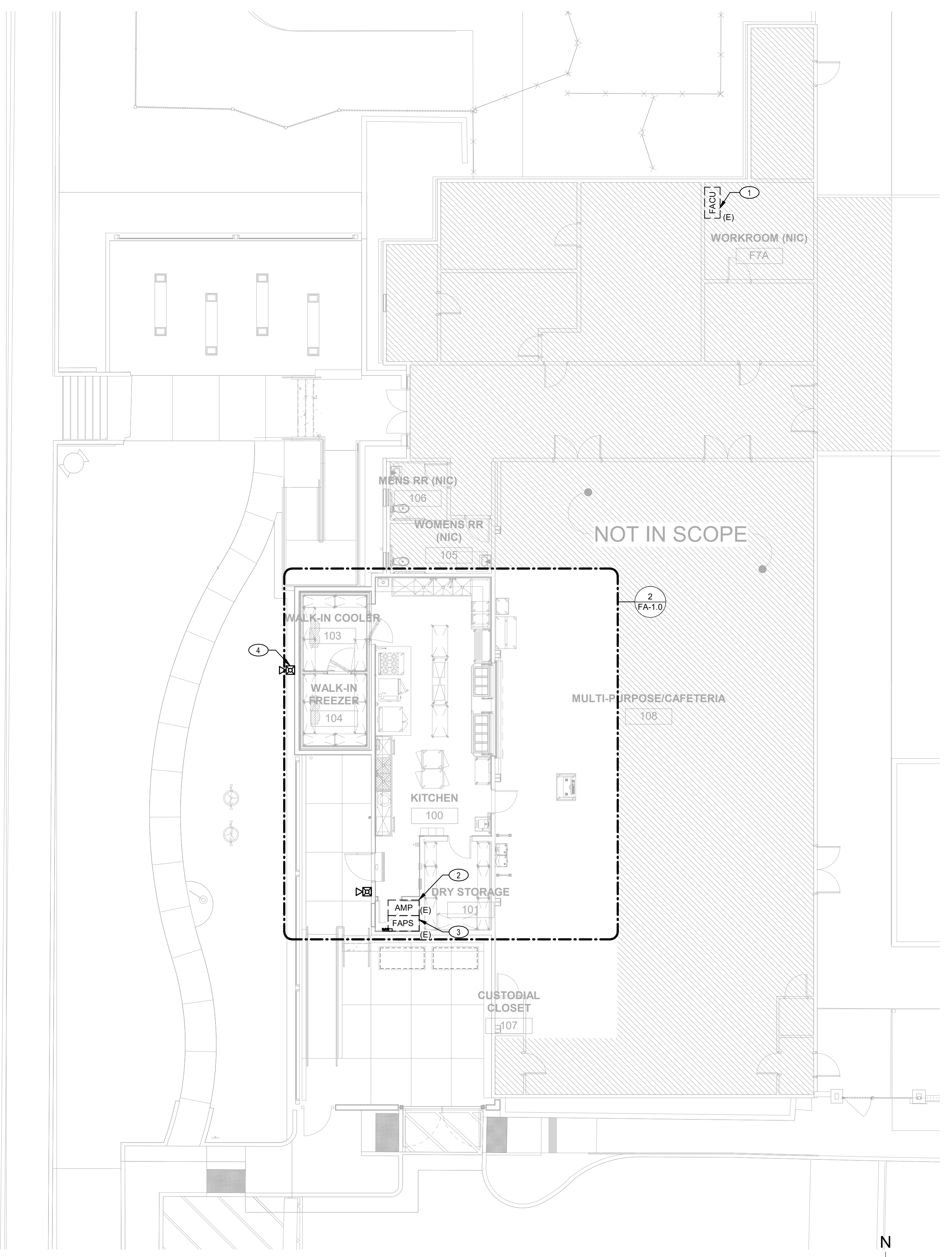
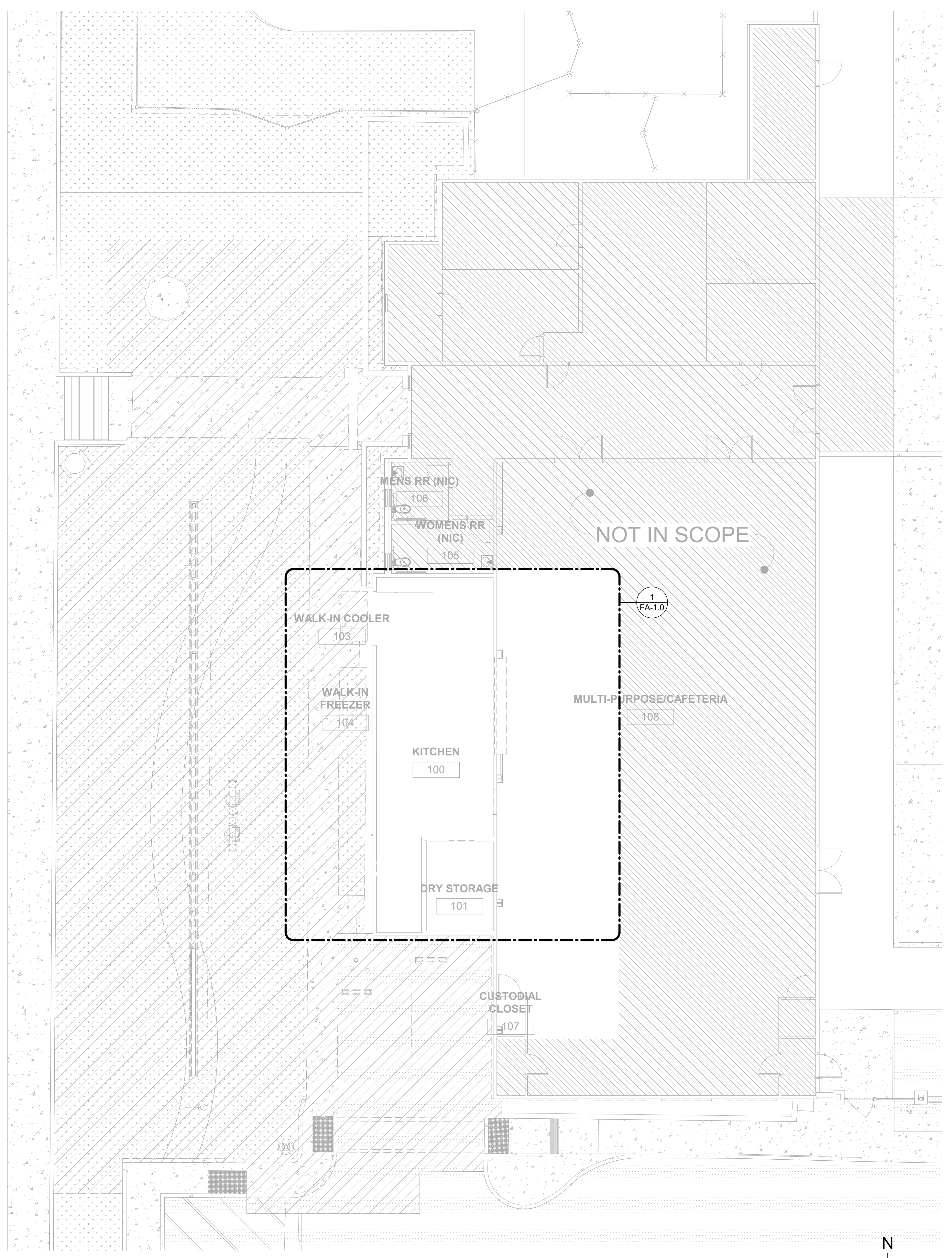
F.C. JOYCE ELEMENTARY SEXTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT

FIRE ALARM OVERALL SITE PLAN

FAS-1.0

KITCHEN UPGRADES AT JOYCE E.S.:

- KEY NOTES**
- (E) MAIN CAMPUS FIRE ALARM CONTROL UNIT.
 - (N) FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED 120VAC POWER.
 - (N) FIRE ALARM AMPLIFIER. PROVIDE DEDICATED 120VAC.
 - (N) EXTERIOR WEATHER PROOF SPEAKER/STROBE (TYP.).



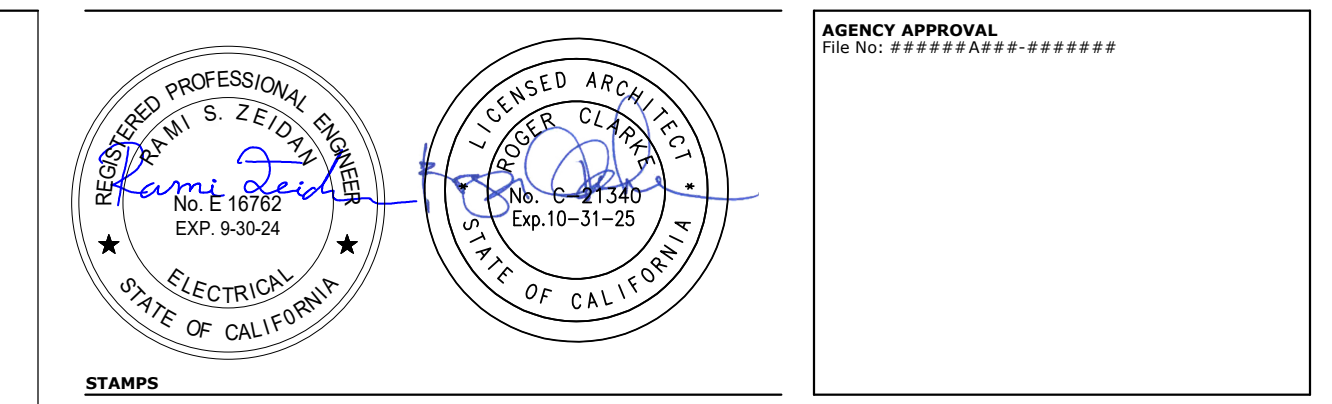
2 FIRE ALARM ENLARGED DEMO SITE PLAN
 SCALE: 1/8" = 1'-0"

1 FIRE ALARM ENLARGED NEW SITE PLAN
 SCALE: 1/8" = 1'-0"

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GENERAL NOTES

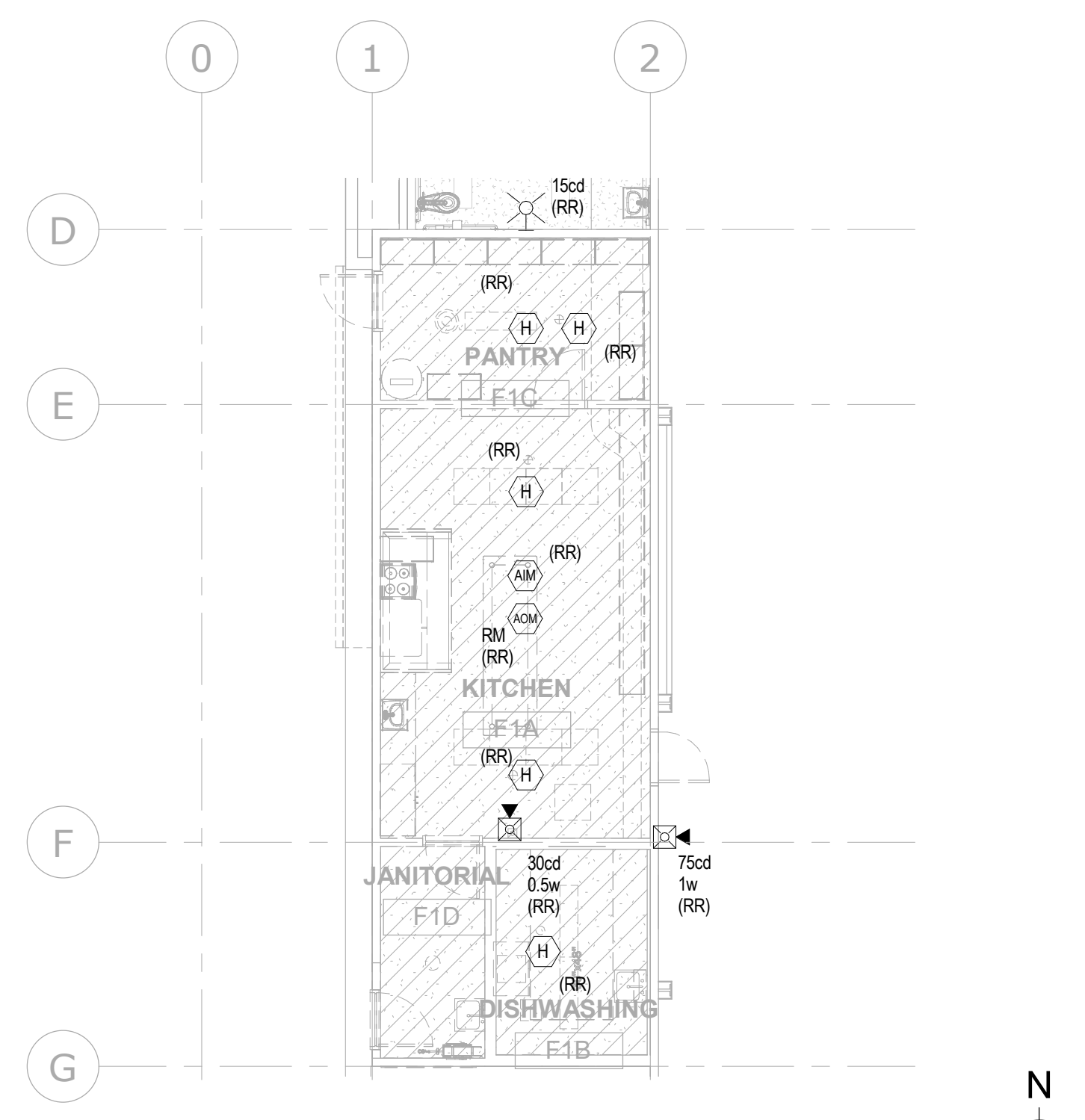
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KEY NOTES

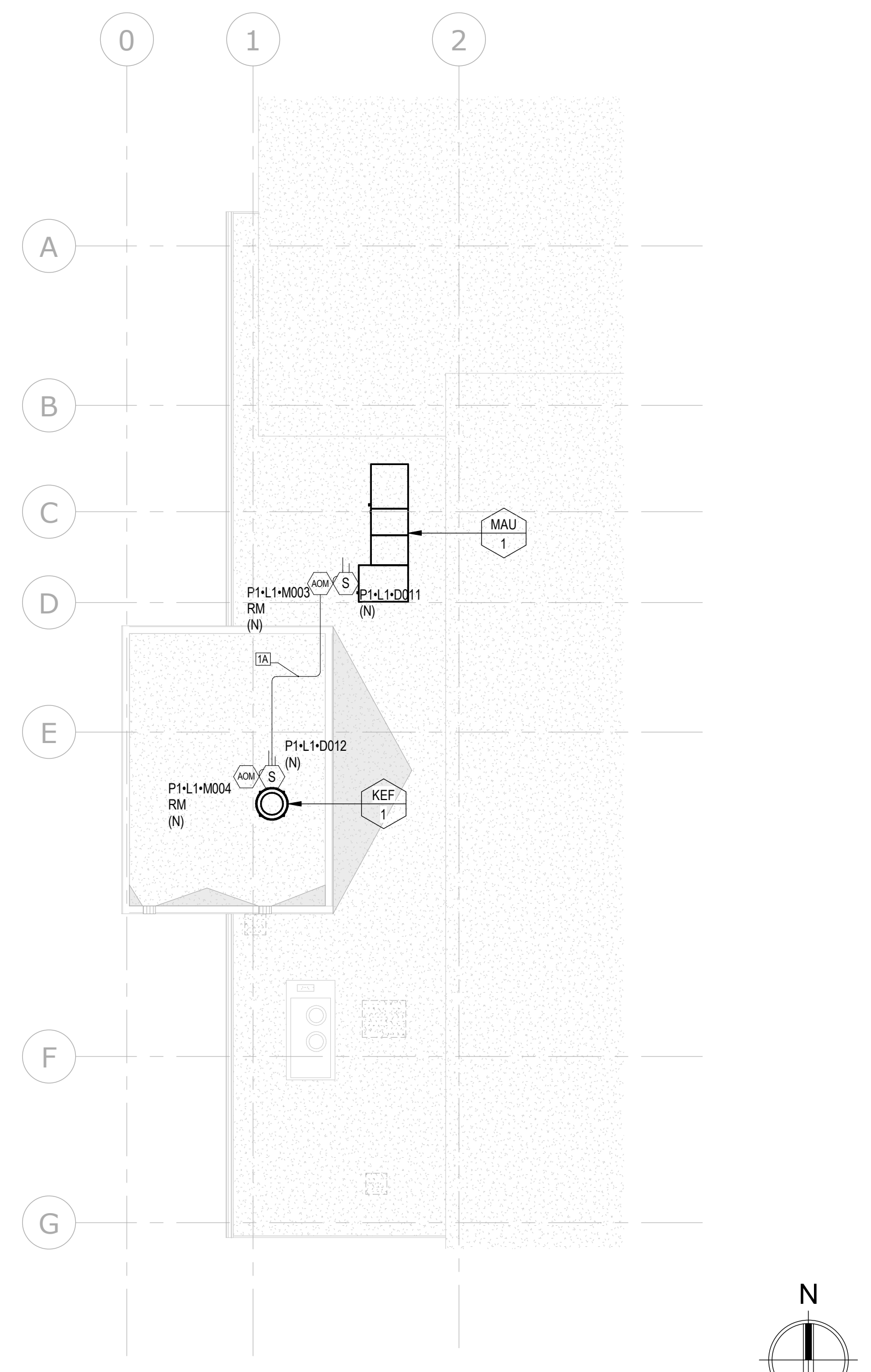
- (N) FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED 120VAC POWER.
- (N) FIRE ALARM AMPLIFIER. PROVIDE DEDICATED 120VAC.
- CONNECT MONITOR MODULE TO ANSUL SUPPRESSION SYSTEM.
- PROVIDE ACCESS PANEL TO SERVICE AND MAINTAIN ABOVE CEILING HEAT DETECTOR. REFERENCE ACCESS PANEL DETAIL 10/FAD-6.0

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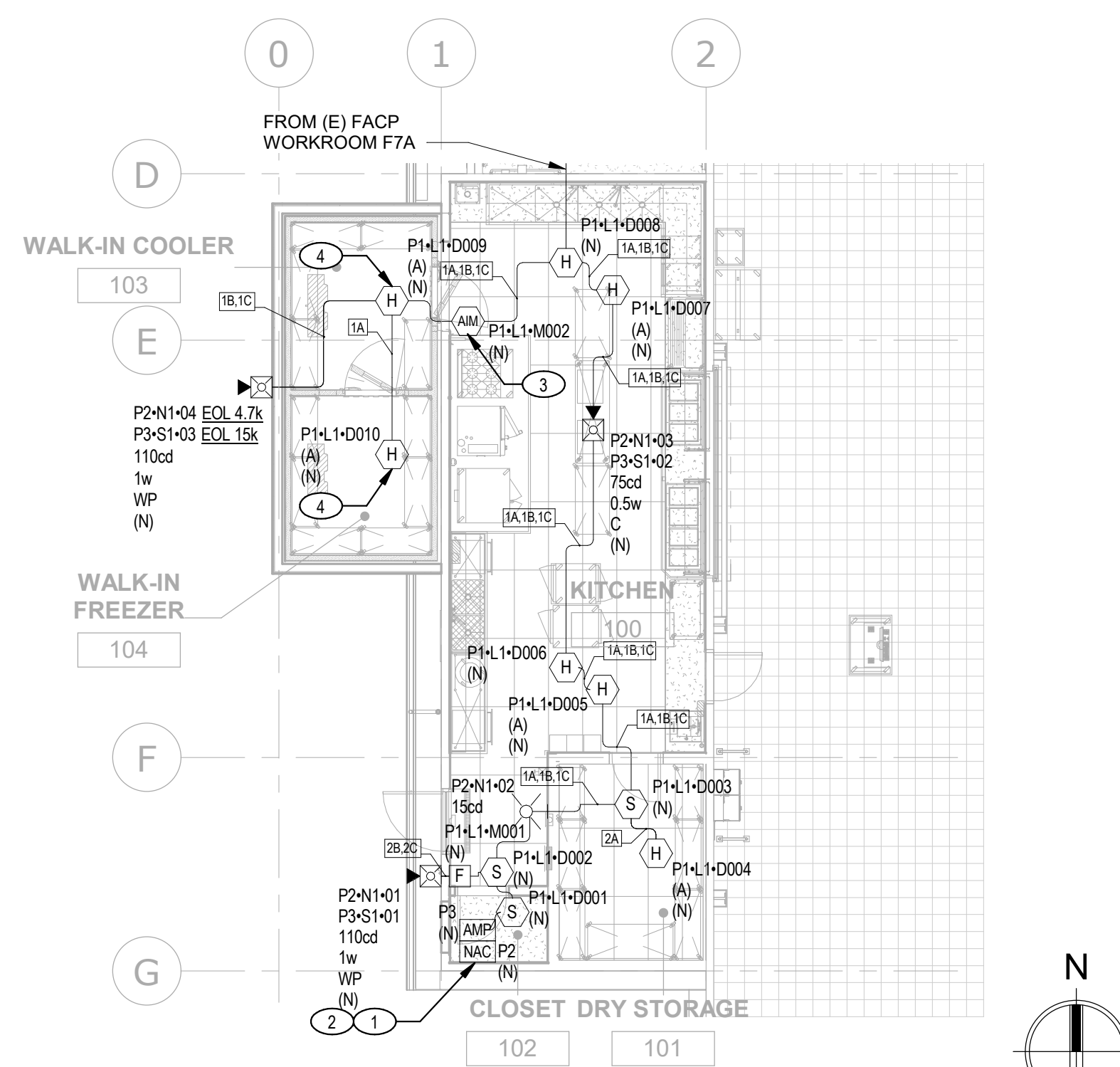
RUHNAU CLARKE ARCHITECTS



1 FIRE ALARM DEMO FLOOR PLAN
 SCALE: 1/8" = 1'-0"



3 FIRE ALARM NEW ROOF PLAN
 SCALE: 1/8" = 1'-0"



2 FIRE ALARM NEW FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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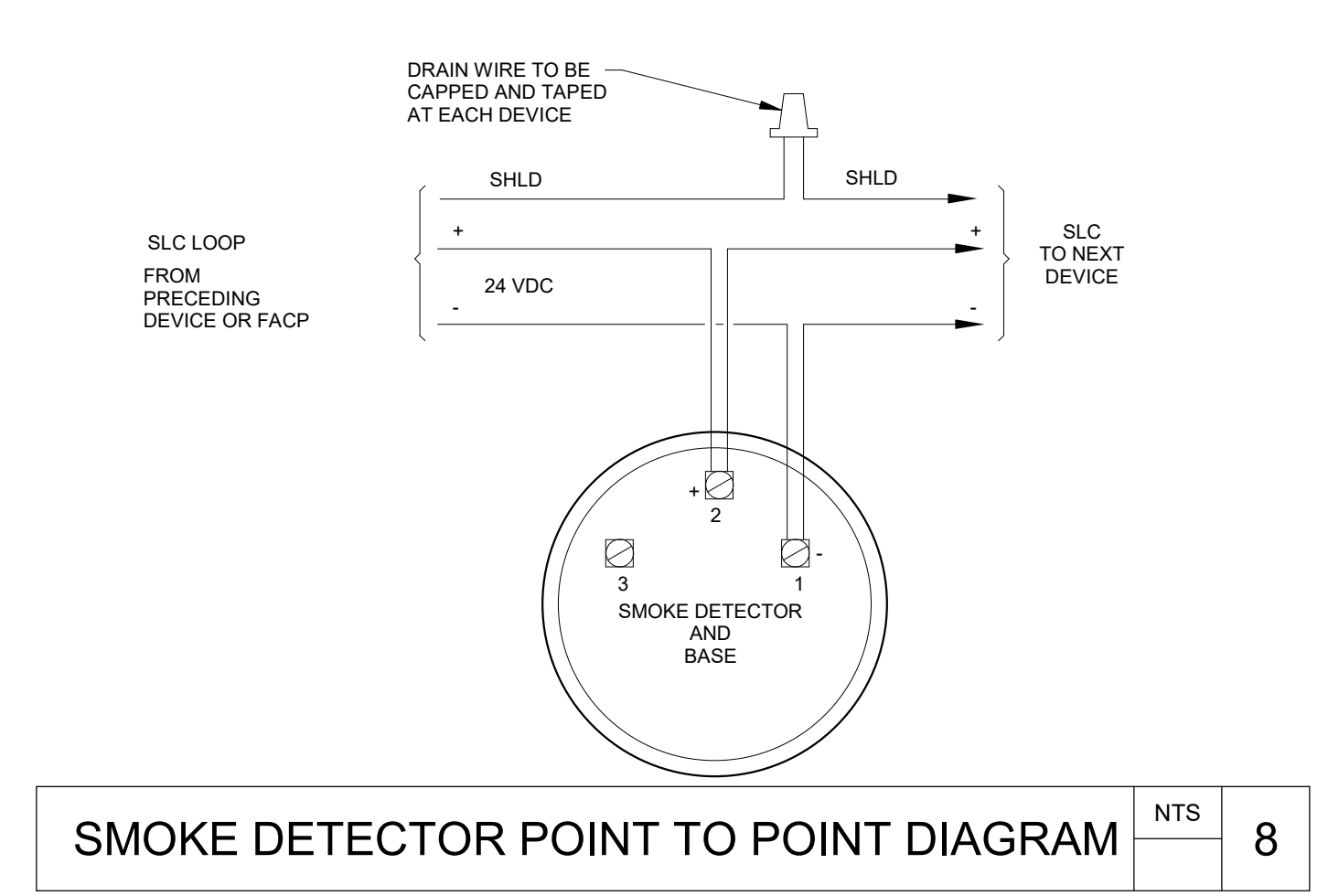
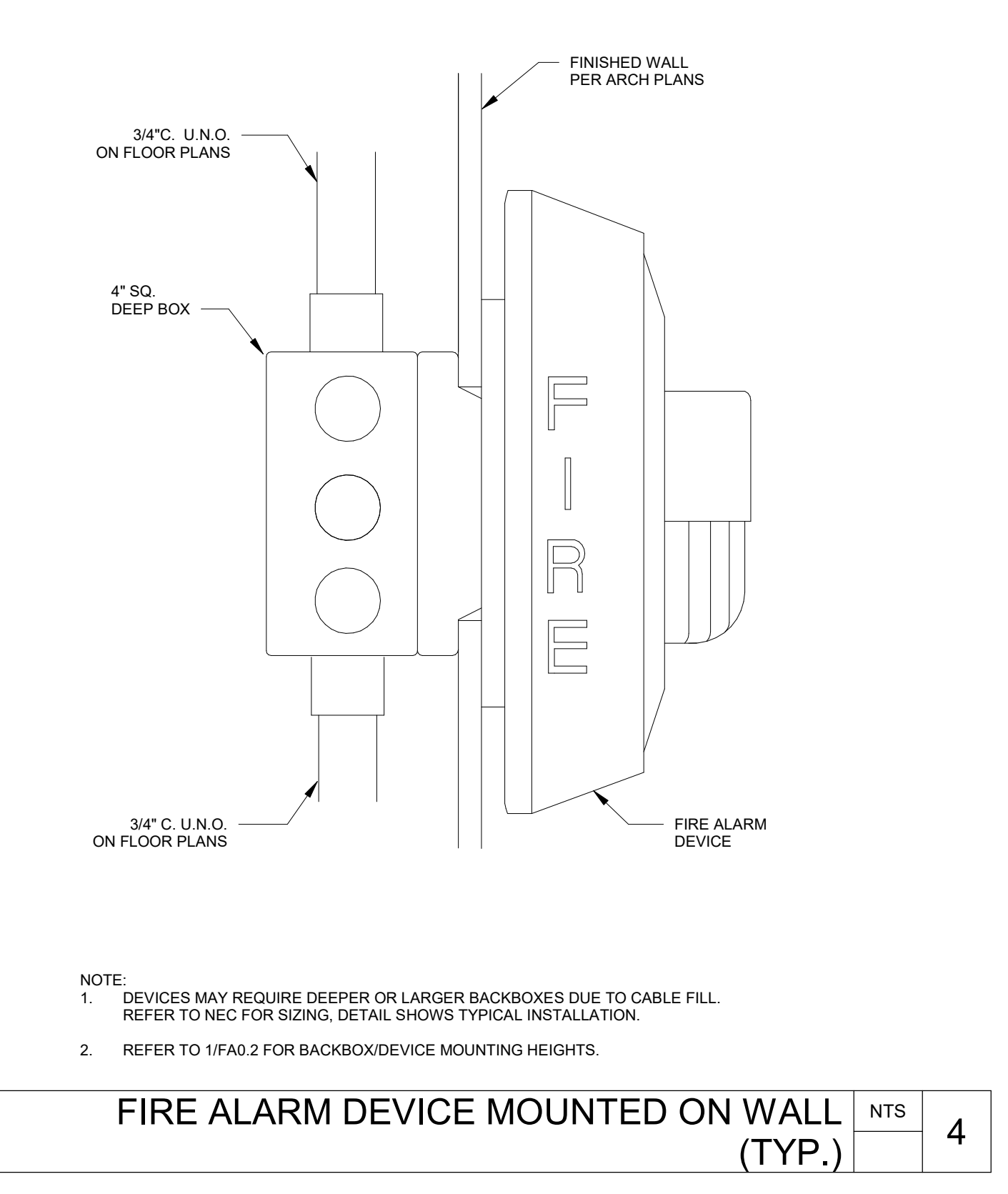
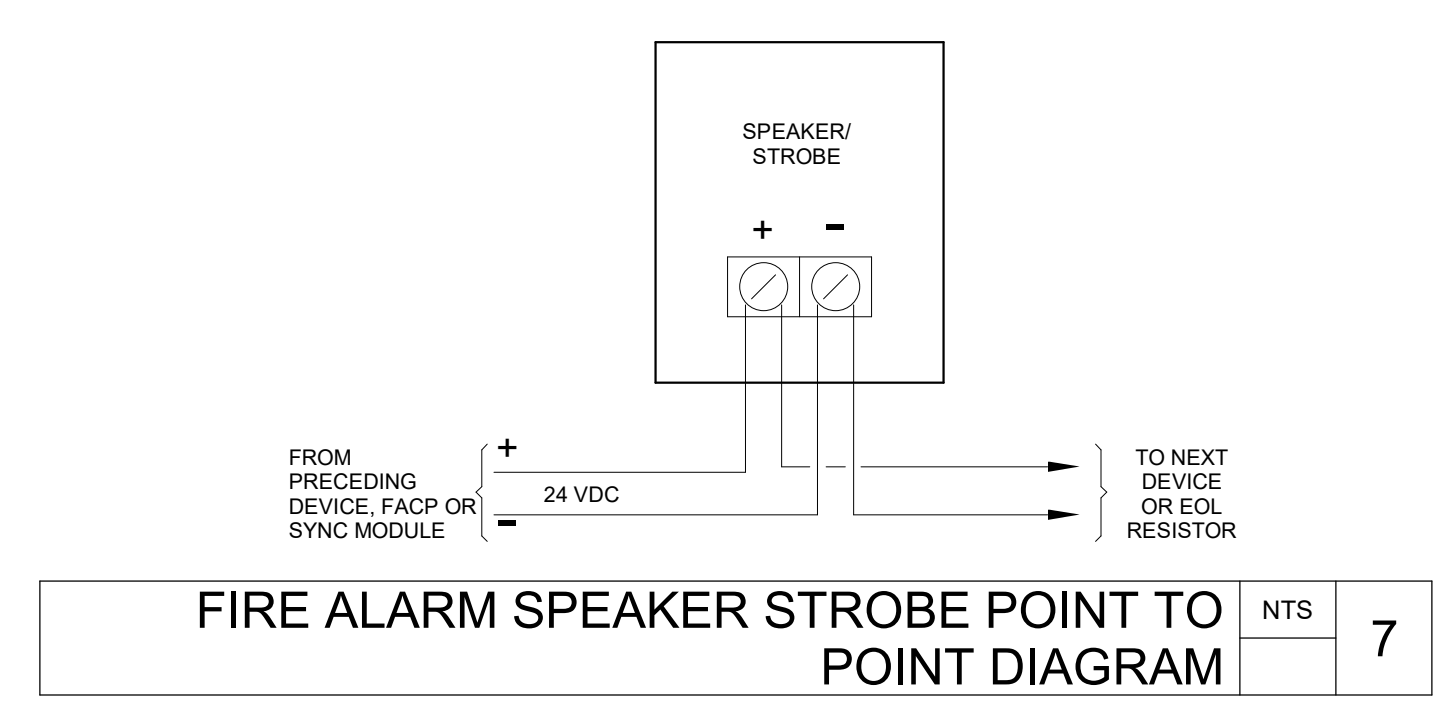
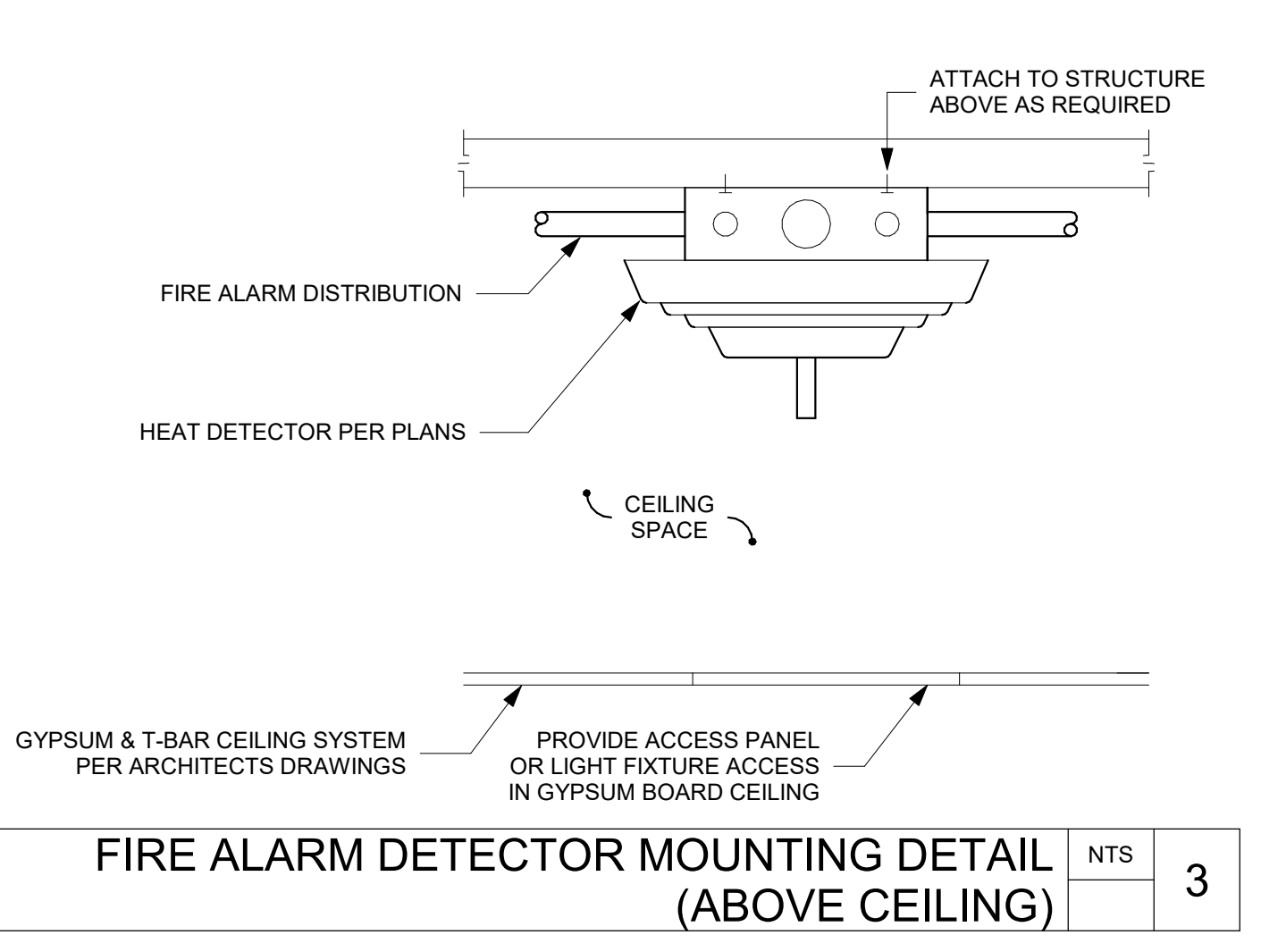
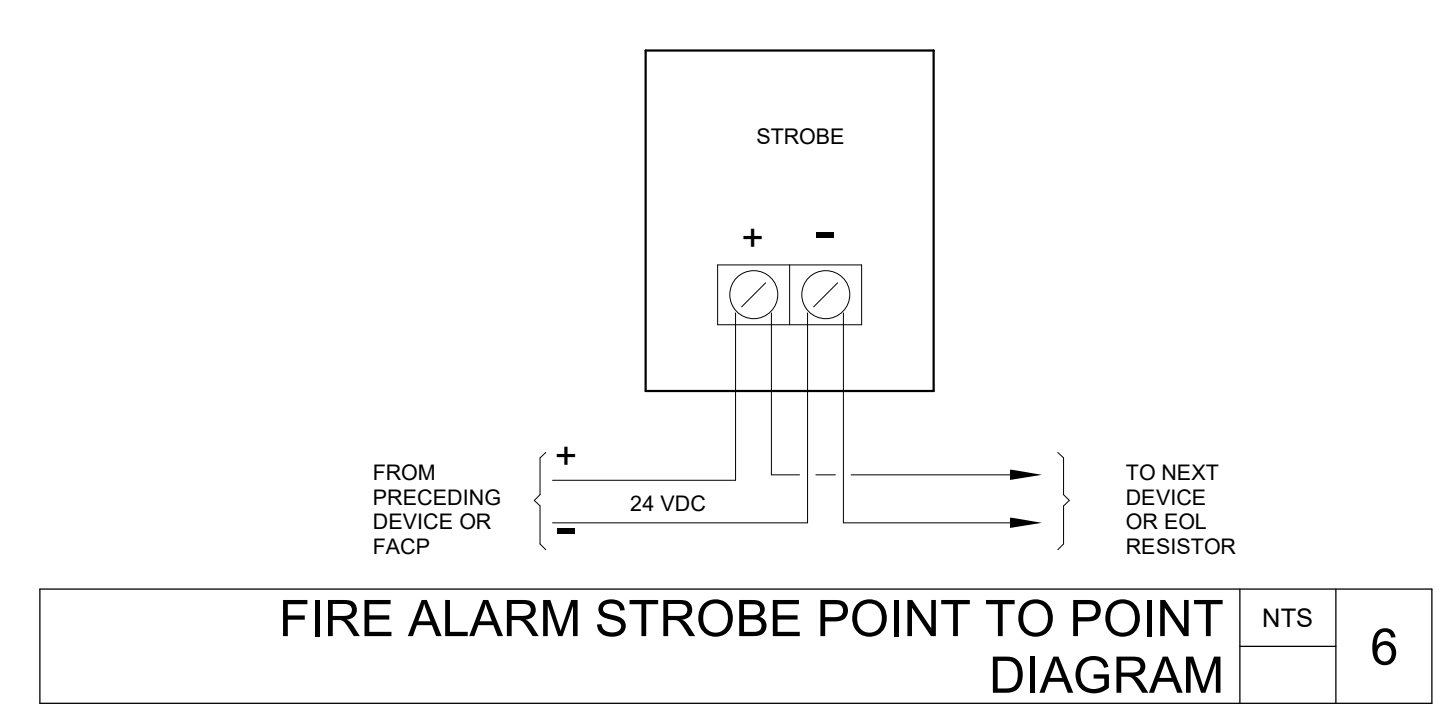
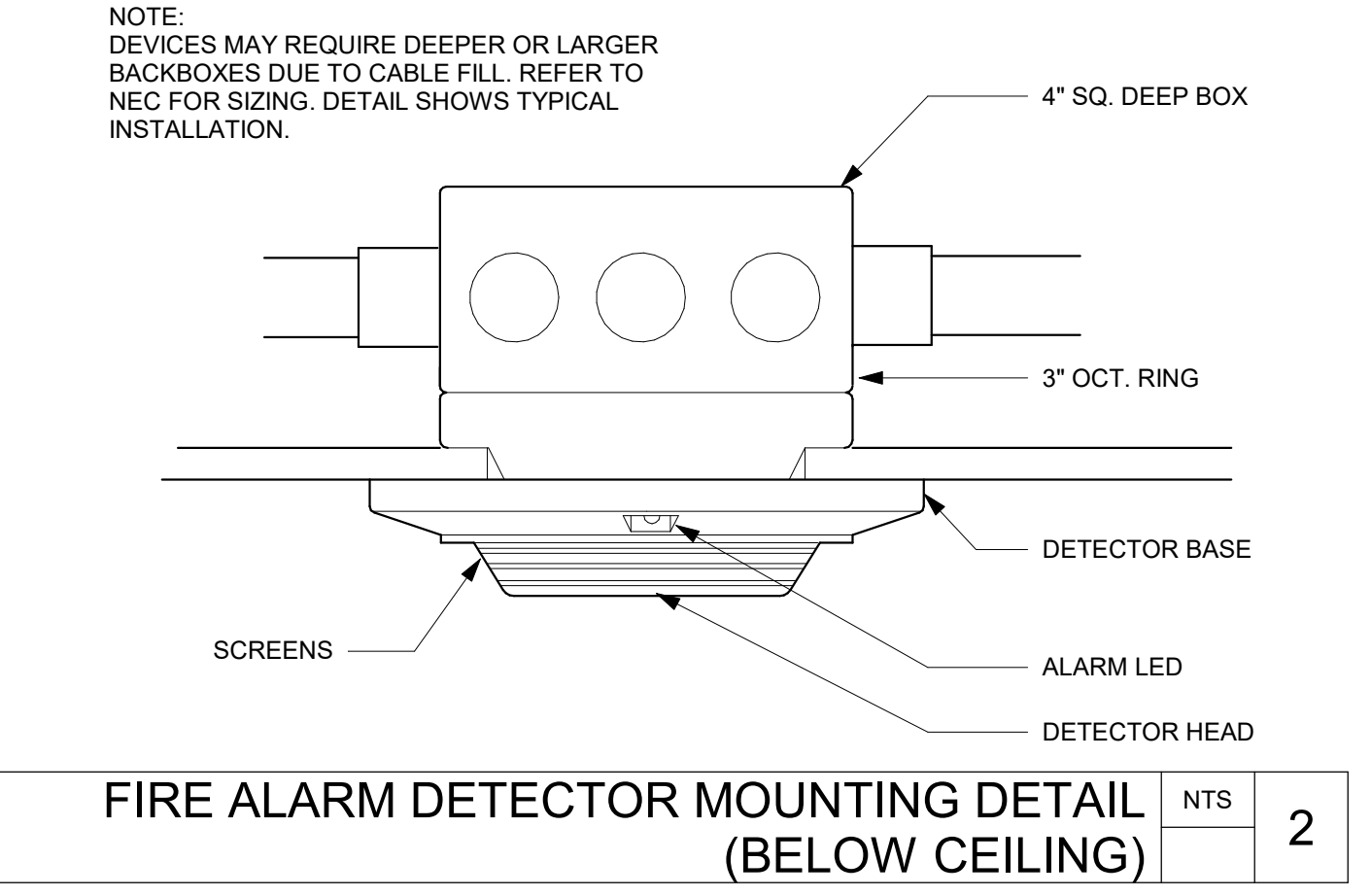
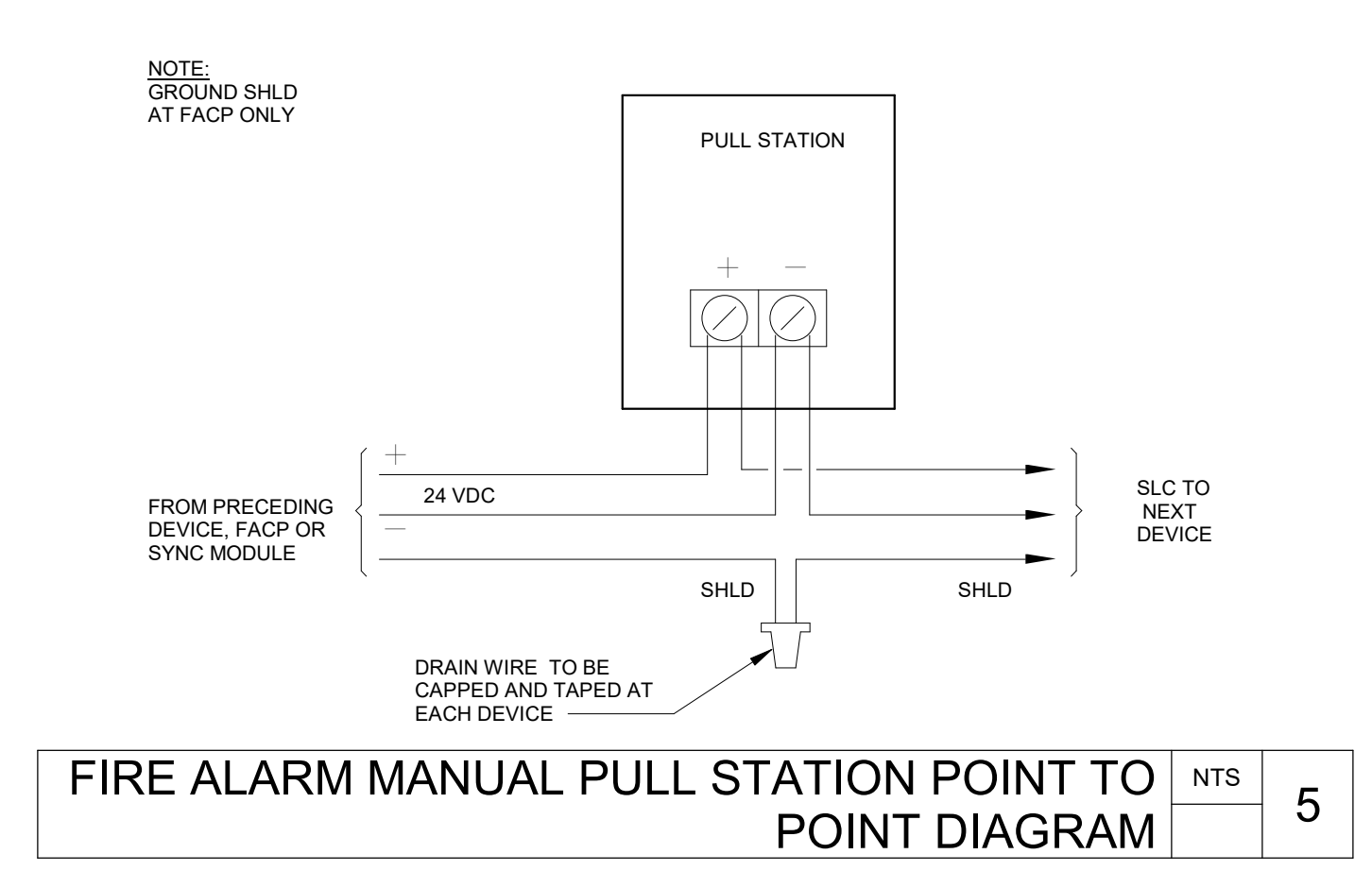
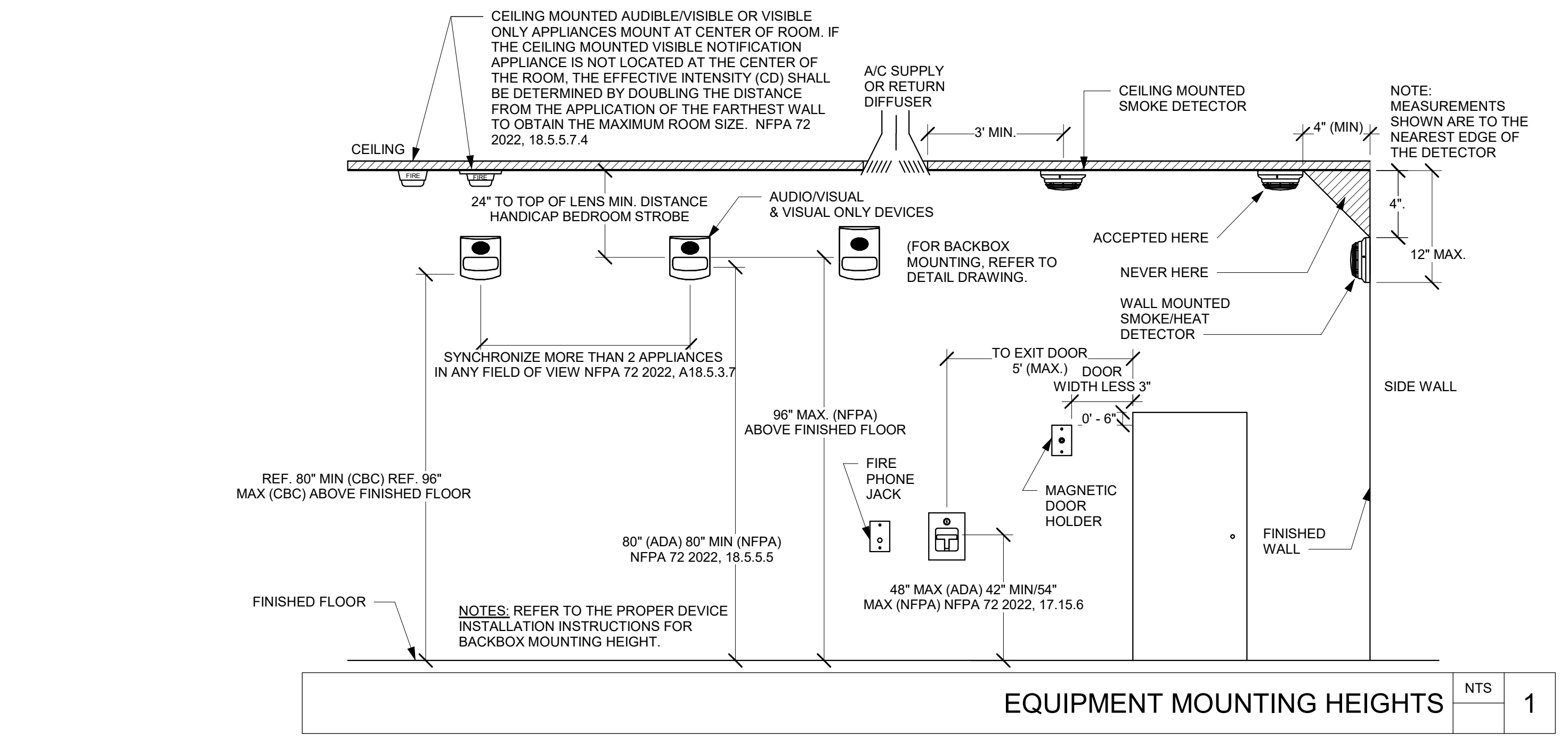
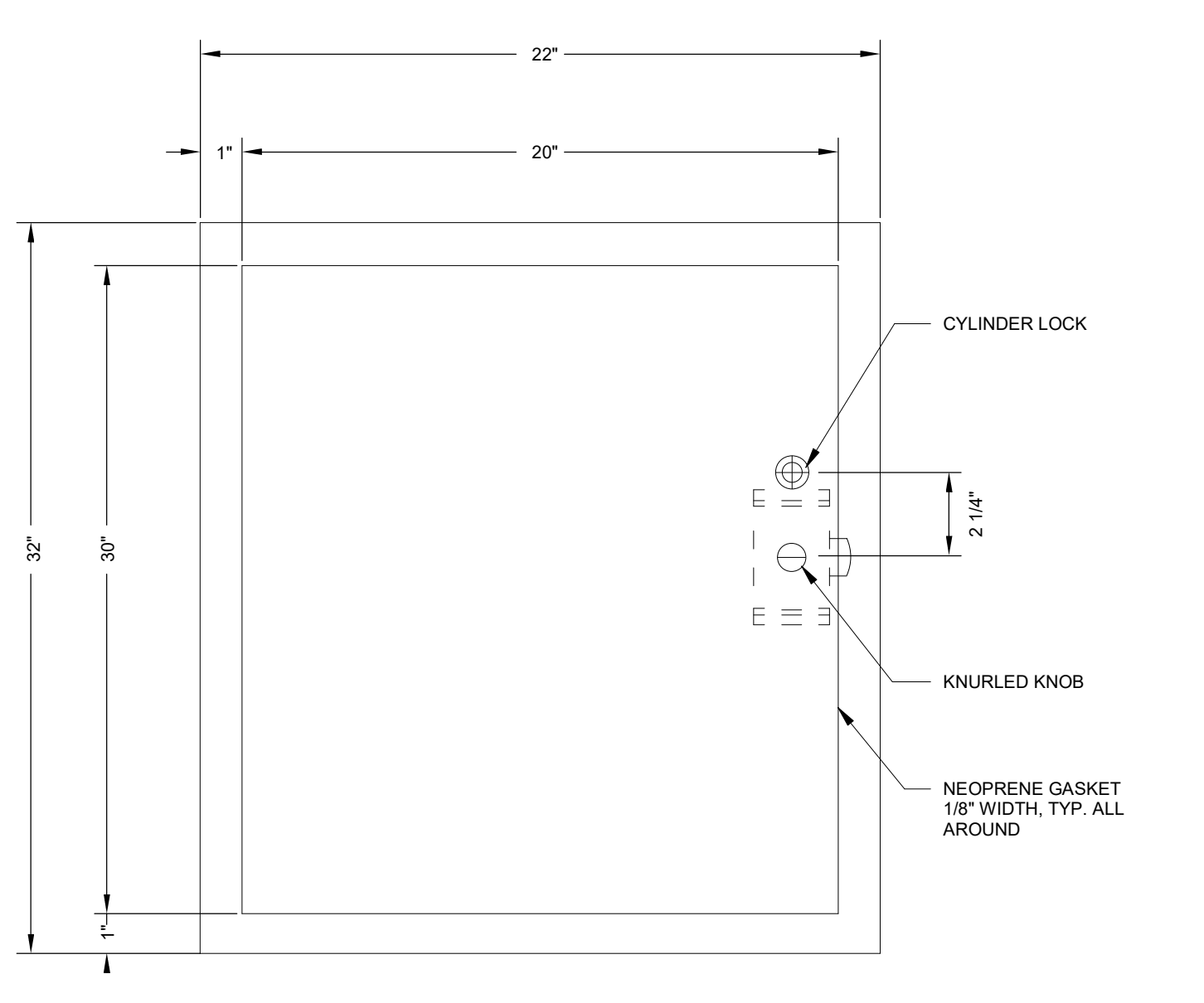
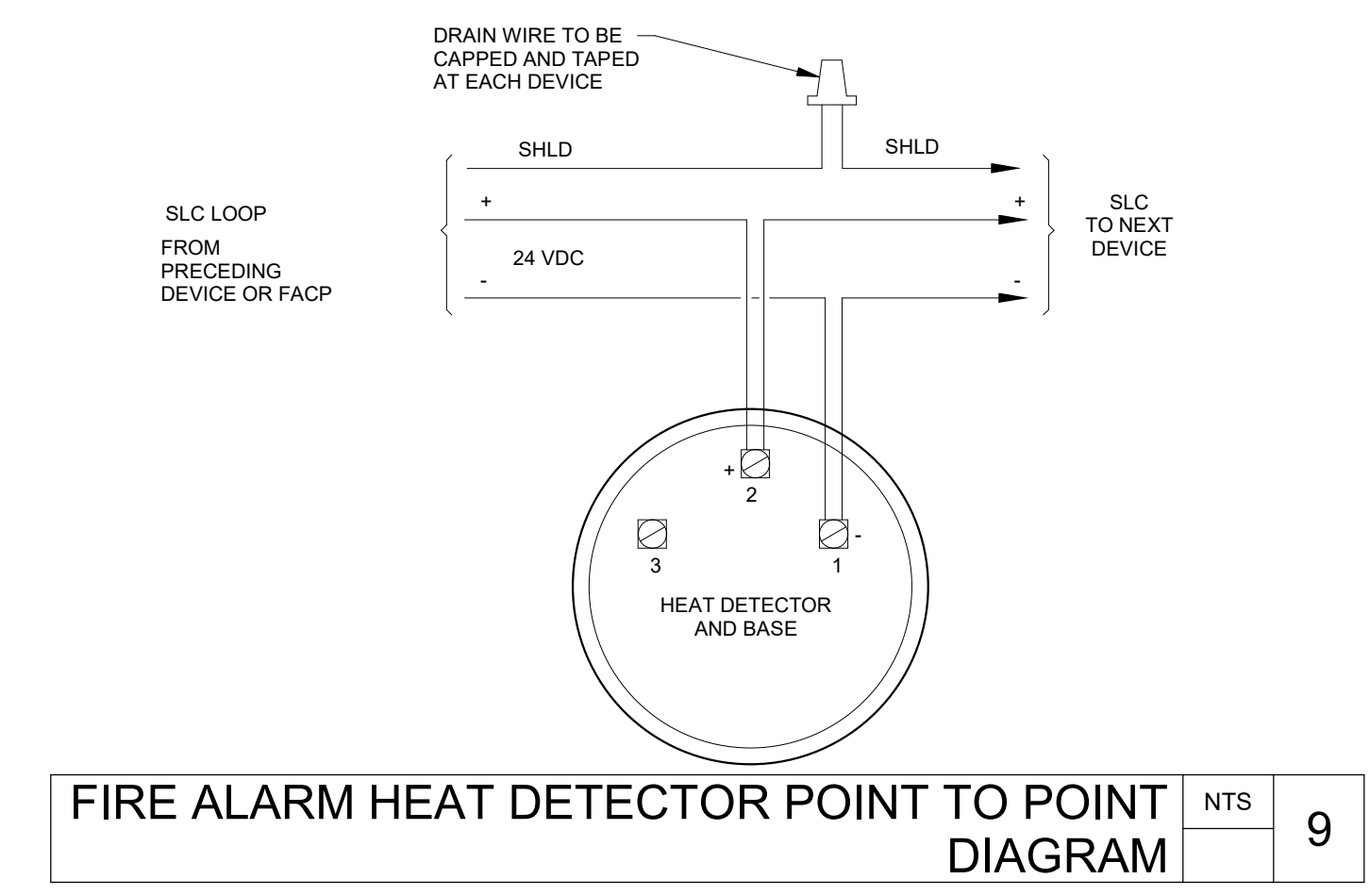
KITCHEN UPGRADES AT JOYCE E.S.

F.C. JOYCE ELEMENTARY SENIARY SCHOOL,
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

FIRE ALARM DEMO & NEW FLOOR PLANS

FA-1.0

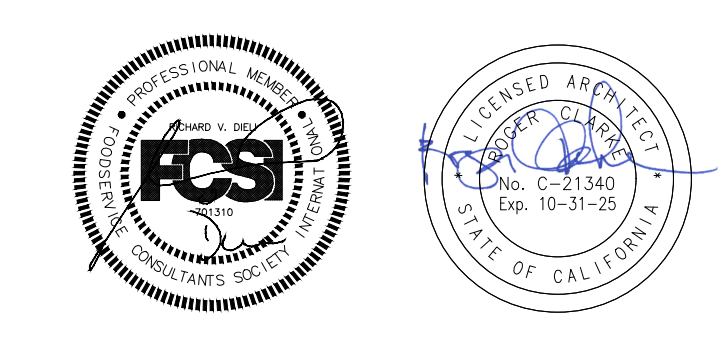
KITCHEN UPGRADES AT JOYCE E.S.:



SYSTEM INPUTS	CTRL. UNIT ANNUNCIATION																										REMARKS
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
1 SYSTEM ALARM CONDITION																											
2 SMOKE SENSOR/DETECTOR	*																										
3 HEAT SENSOR/DETECTOR	*	*																									
4 MANUAL PULL STATION	*	*																									
5 ANSUL MANUAL PULL STATION	*	*																									
6																											
7																											
8																											
9 SYSTEM SUPERVISORY CONDITION																											
10 ANSUL SYSTEM DISCHARGE	*	*																									
11 DUCT DETECTOR	*	*																									
12																											
13																											
14																											
15																											
16 SYSTEM TROUBLE CONDITION																											
17 FIRE ALARM AC POWER FAILURE	*	*																									
18 OPEN CIRCUIT OR GROUND FAULT	*	*																									
19 FIRE ALARM SYSTEM LOW BATTERY	*	*																									
20																											
21																											
22																											

FIRE ALARM SEQUENCE OF OPERATIONS NTS 11

FOR REFERENCE ONLY



STAMPS

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JOYCE ELEMENTARY SCHOOL (TWIN RIVERS USD) EQUIPMENT SCHEDULE

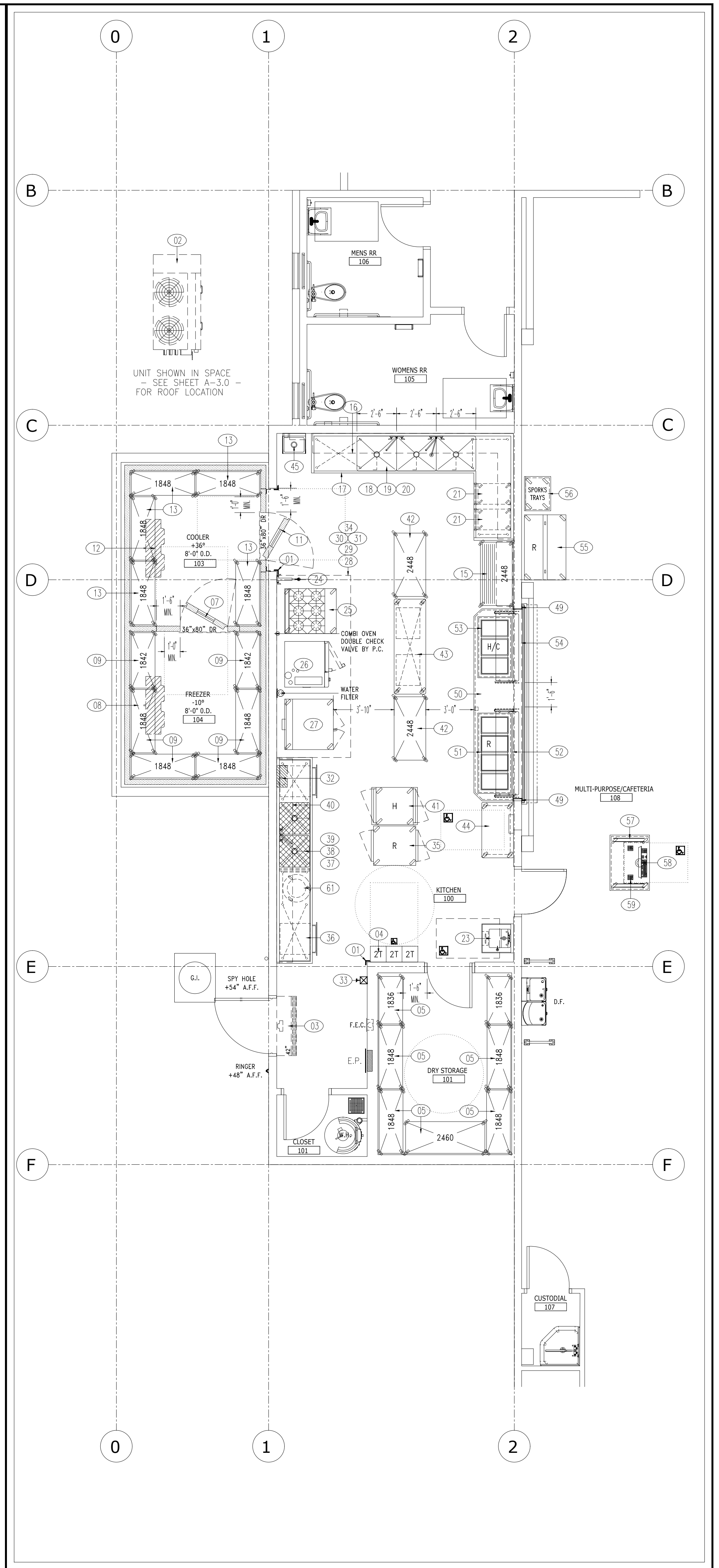
NOTE: SEE SHEETS FS.00.0, FS.09.1 FOR ATTACHMENT DET.

NOTE: SEE SHEET FS.00.0 FOR ABBREVIATION SCHEDULE

Equipment schedule table with columns: ITEM, DESCRIPTION, REMARKS, QTY, ATTACH, EQUIPMENT WEIGHT, VOLTS, LOAD HP, KW, AMPS, PHASE, CONN, ELECTRICAL REMARKS, PLUMBING / MECHANICAL, PLUMBING/MECHANICAL REMARKS.

KITCHEN FINISH SCHEDULE table with columns: ROOM/AREA, FLOOR, BASE, WALLS, CEILING.

NOTE #5: ALL FLOORS WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT, AND ALL WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.



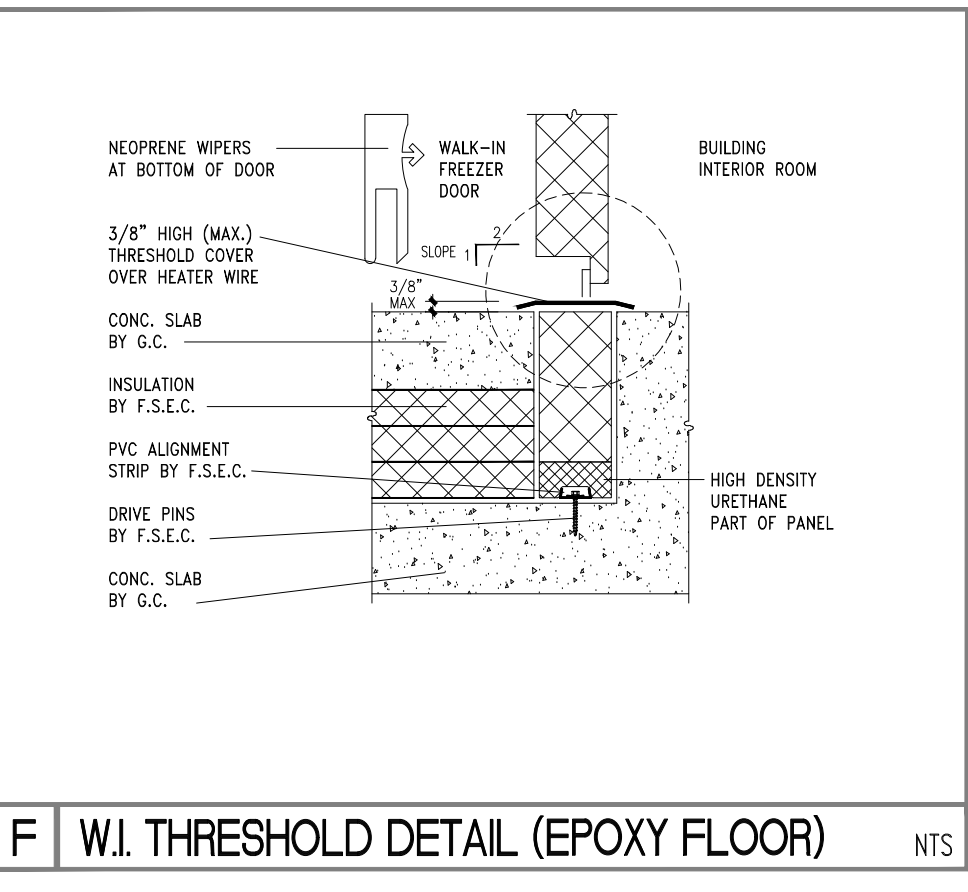
FLOOR PLAN LEGEND

- BUILDING WALLS (SEE ARCH. DWGS.)
ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
ROOM / AREA NAME AND ROOM NUMBER
ACCESSIBLE CLEARANCES AND SYMBOL
EXISTING FOOD SERVICE EQUIPMENT
OWNER PROVIDED EQUIPMENT
COLUMN GRIDS WITH COLUMN INDICATORS
EQUIPMENT LABELS (Refrigerator, Freezer, Heated)
OUTLINE OF FOOD SERVICE EQUIPMENT
STORAGE SHELVING SIZES (Width x Length)
FOOD SERVICE EQUIPMENT BELOW EQUIPMENT TOP
FUTURE FOOD SERVICE EQUIPMENT
FOOD SERVICE EQUIPMENT ABOVE EQUIPMENT TOP
E.P. (ELECTRICAL PANEL, SEE ELECT ENG DWGS)
MOBILE FOOD SERVICE EQUIPMENT
F.E.C. (TYPE "K" FIRE EXTINGUISHER & CABINET)
SHEET NUMBER
WATER HEATER (SEE PLUMBING ENG DWGS)
WALK-IN COOLER/FREEZER INSULATED WALLS
ELEVATION INDICATOR SYMBOL

FOOD SERVICE EQUIP. KEYNOTE

- FOOD SERVICE EQUIPMENT IDENTIFIER
ITEM NUMBER
SEE EQUIPMENT SCHEDULE ON FS.01.0

NOTE: SEE SHEET FS.02.0 FOR FOOD FACILITY REQMT NOTES AND OTHER APPLICABLE NOTES



FOODSERVICE EQUIPMENT FLOOR PLAN SCALE 1/4"=1'-0"

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PROJECT No. : 1-34-32
7/5/2024 1:22 PM

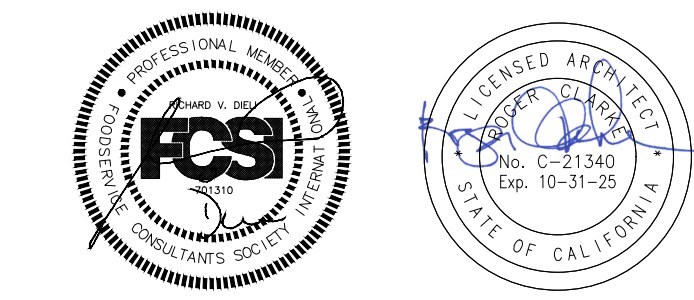
Revision table with columns: ISSUE No., DATE, DESCRIPTION, REVISION No., DATE, DESCRIPTION.

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TWIN RIVERS UNIFIED SCHOOL DISTRICT

FOODSERVICE EQUIP. FLOOR PLAN AND SCHEDULE

FS.01.0



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CONSULTANT BRANDING

ABBREVIATIONS

Table with columns for abbreviations and their corresponding full names. Includes categories like A.C.C., A.F.F., A.P., etc., and equipment types like EQUIP, OB, etc.

ATTACHMENT NOTES

(MIN. REQUIREMENTS UNLESS NOTED OTHERWISE)

THESE GUIDELINES HAVE BEEN PREPARED FOR USE BY ENGINEERS, ARCHITECTS AND CONTRACTORS, APPROVING AUTHORITIES, AND OTHERS AS AN AID IN STANDARDIZING DETAILS OF CONSTRUCTION FOR SEISMIC RESTRAINTS OF FOOD SERVICE EQUIPMENT COMPLYING WITH THE 2019 CALIFORNIA BUILDING CODE (CBC).

THESE GUIDELINES WERE DEVELOPED USING SOUND ENGINEERING PRINCIPLES AND JUDGMENT. THEY REPRESENT REALISTIC AND SAFE DETAILS COMPATIBLE WITH GENERAL GUIDELINES AND FORCE FACTORS IN THE 2019 CALIFORNIA BUILDING CODE (CBC).

- 1. - KITCHEN EQUIPMENT IS MANUFACTURED IN A MULTITUDE OF DIFFERENT SHAPES, SIZES, AND WEIGHTS. IN ORDER TO COORDINATE THE VARIABLES, EQUIPMENT HAS BEEN ARRANGED INTO BASIC CATEGORIES OR TYPES...
2. - ALL DETAILS IN THIS GUIDELINE ARE FOR EQUIPMENT THAT IS DIRECTLY CONNECTED TO UTILITIES...
3. - THE DETAILS HAVE BEEN PREPARED ON THE BASIS OF NEW CONSTRUCTION...

FOOD FACILITY REQUIREMENTS NOTES

(MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)

- 1. - A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE...
2. - ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM...
10. - A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30-INCHES OFF FLOOR IS PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS...

BUILDING CONSTRUCTION NOTES

- 1. - REFER TO THE ARCHITECTS DRAWINGS AND SPECIFICATIONS FOR CURRENT BUILDING CODES

ELECTRICAL NOTES

- 1. - REFER TO THE ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT ELECTRICAL CODES AND ELECTRICAL NOTES

MECHANICAL / VENTILATING NOTES

- 1. - REFER TO THE MECHANICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT MECHANICAL CODES AND MECHANICAL NOTES

PLUMBING NOTES

- 1. - REFER TO THE PLUMBING ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR CURRENT PLUMBING CODES AND PLUMBING NOTES

REFRIGERATION NOTES

(MIN. REQUIREMENTS UNLESS NOTED OTHERWISE)

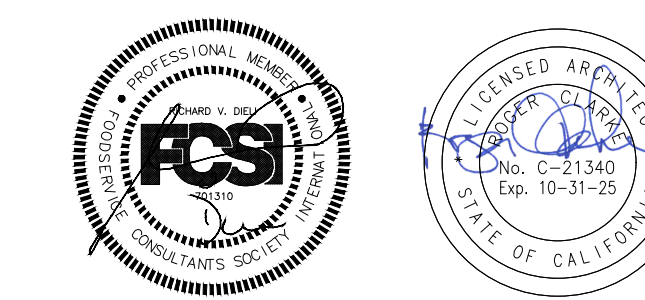
- 1. - ANY DISCREPANCIES BETWEEN PLANS AND CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION, FABRICATION, OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY BY THE REFRIGERATION CONTRACTOR...
2. - FOOD FACILITY REQUIREMENT NOTES AND ALL OTHER NOTES ARE TO BE CONSIDERED A PART OF THESE NOTES...
3. - CONTRACTOR SHALL BE RESPONSIBLE THAT HIS PHASE OF WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE, FEDERAL, AND ALL CODES PECULIAR TO MUNICIPALITY OR AREA...

FOOD SERVICE SHEET LIST

Table listing food service sheets (FS.01.0 to FS.11.0) and their corresponding descriptions: FOODSERVICE EQUIPMENT FLOOR PLAN & SCHEDULE, FOODSERVICE EQUIPMENT GENERAL NOTES, etc.

(* NOTE: THE FOLLOWING INFORMATION CAN BE FOUND ON THE BUILDING WORK PLAN: FLOOR DEPRESSIONS, LEVEL FLOORS; GALV. CURBS; WALL BACKING; HOOD OUTLINES, EXHAUST & MUA DUCTS; WALL & CEILING PENETRATIONS; WALL & WINDOW OPENINGS; FRP & S/S WALL FINISHES

Table with columns for issue number, date, description, revision number, and date. Includes a red 'FOR REFERENCE ONLY' stamp.

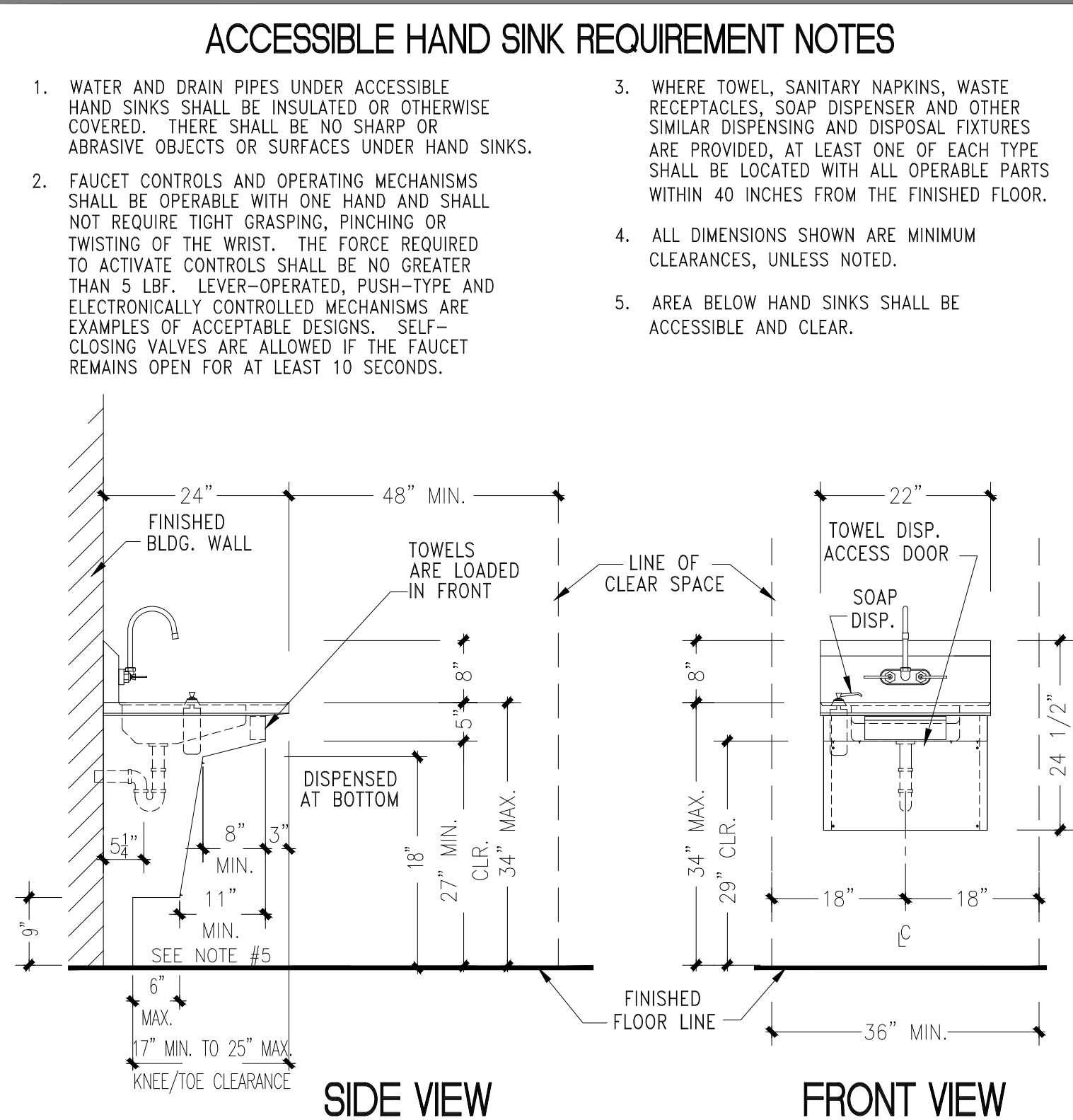


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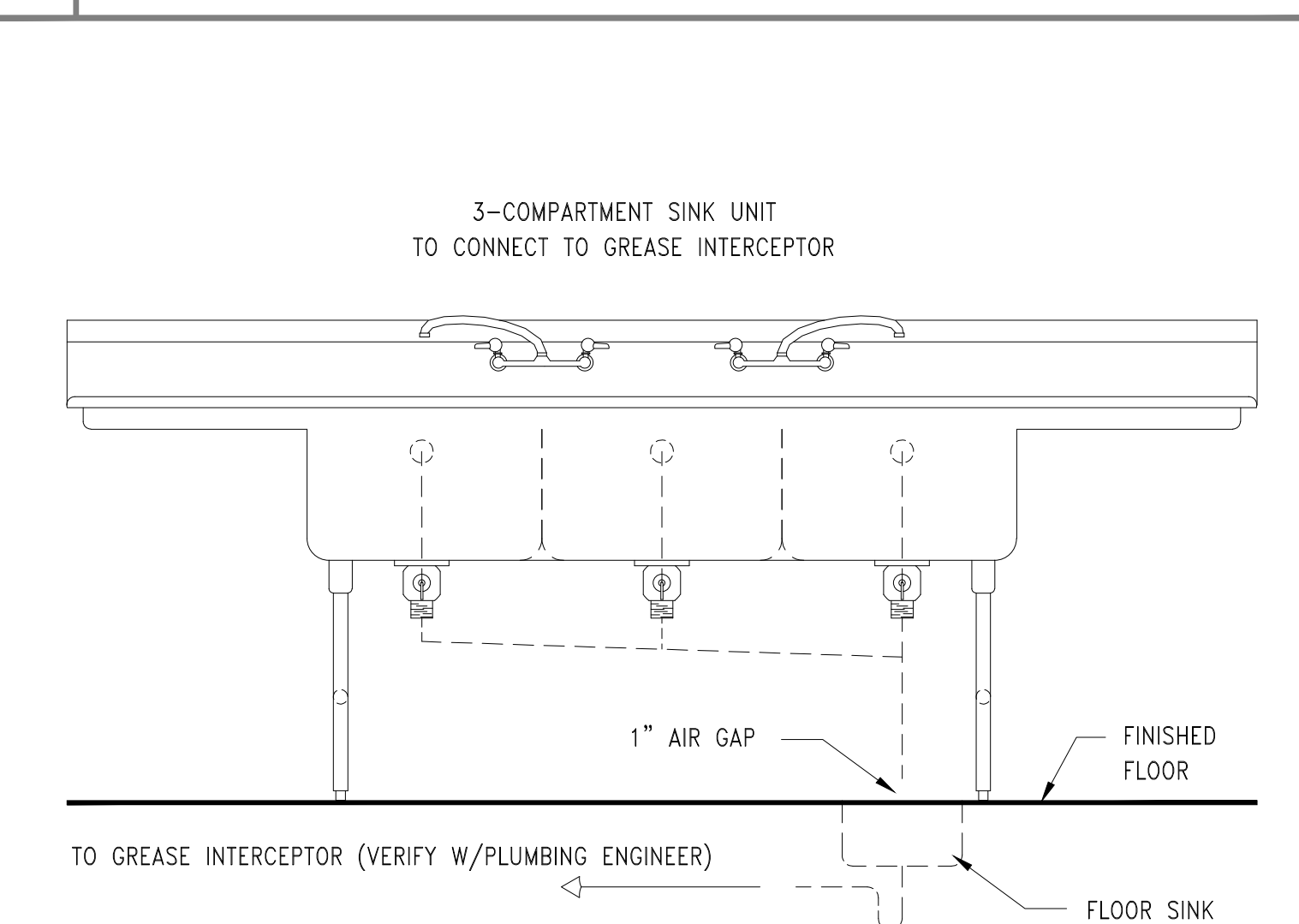
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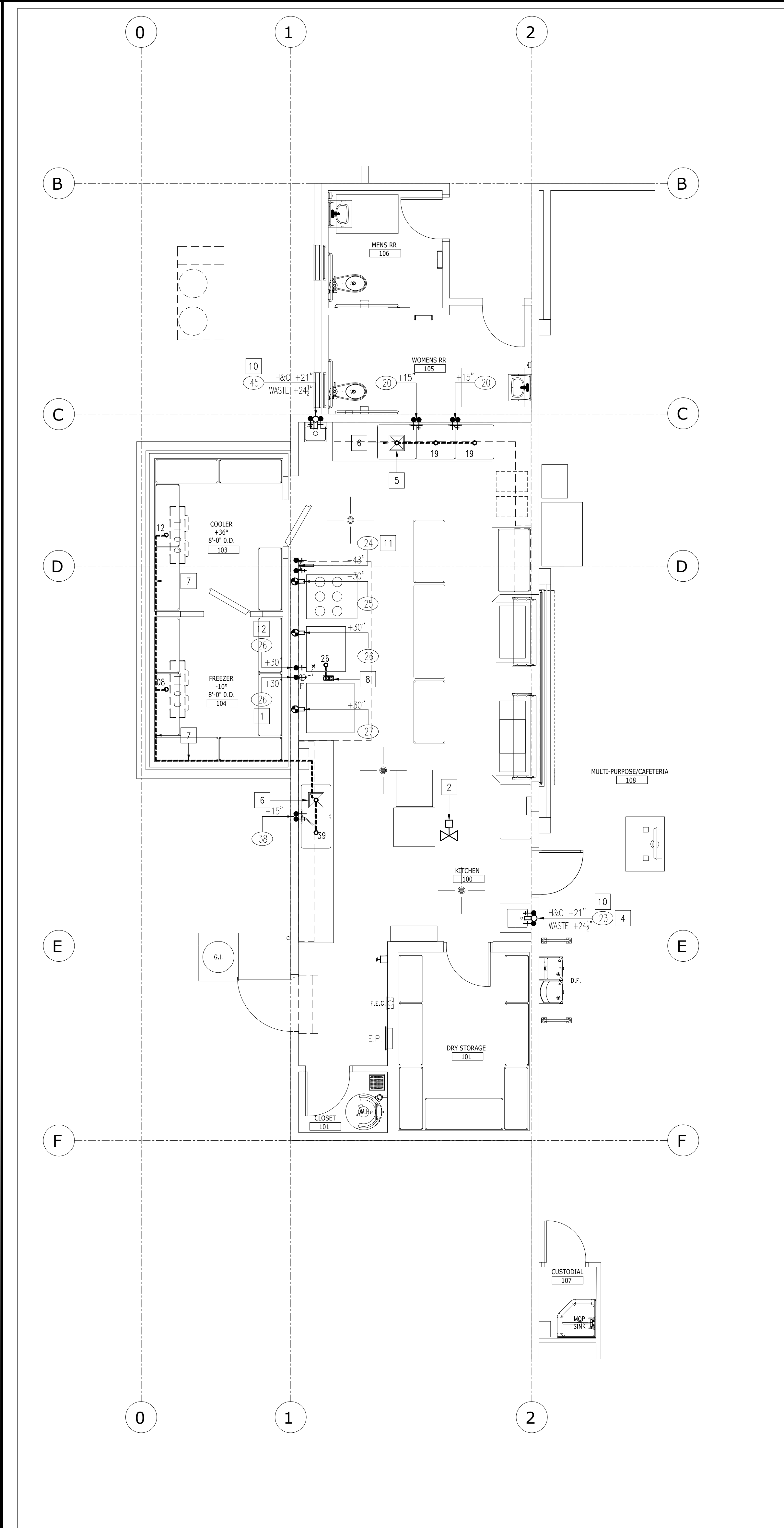


A ACCESSIBLE HAND SINK DETAILS NTS

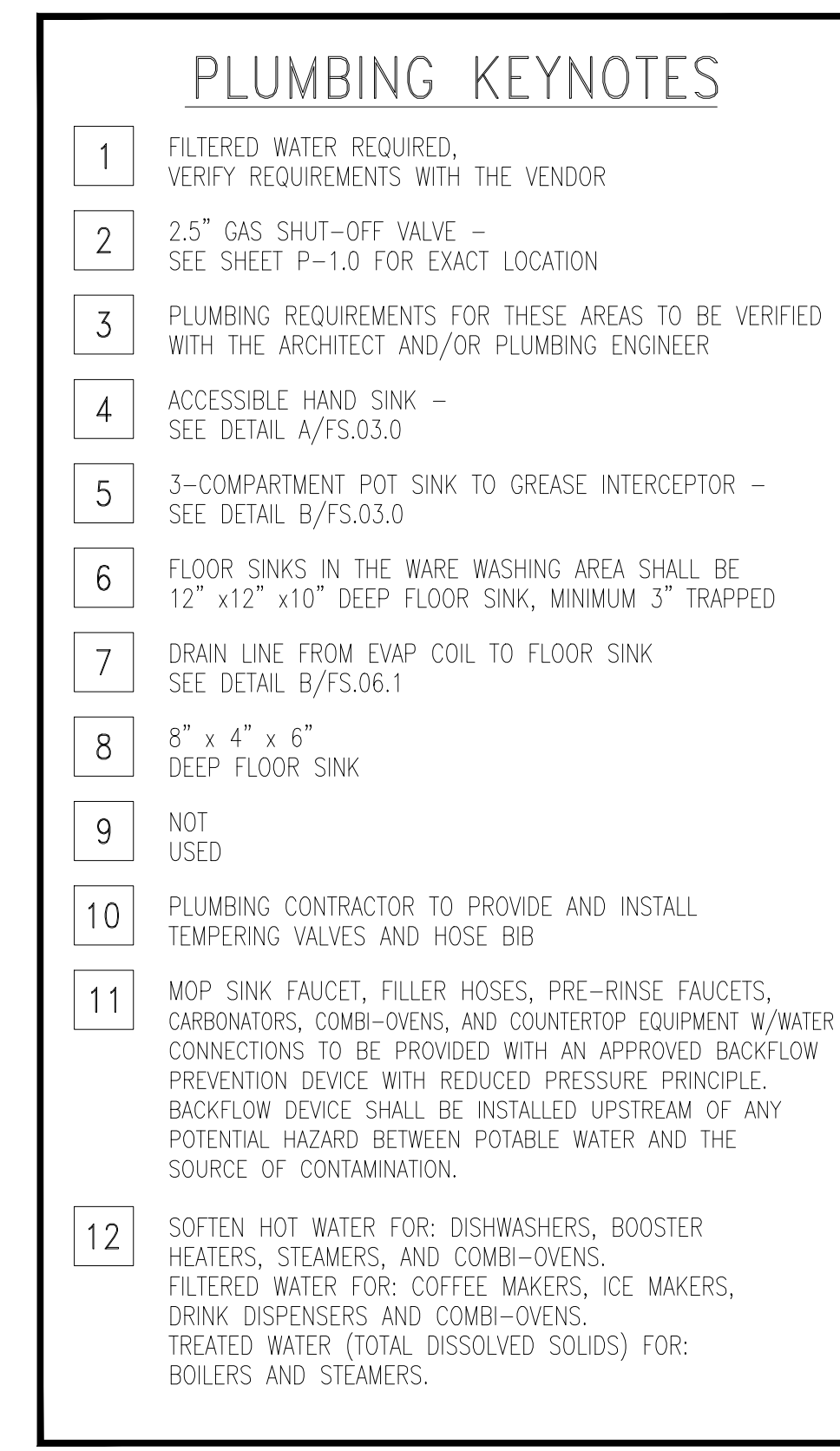
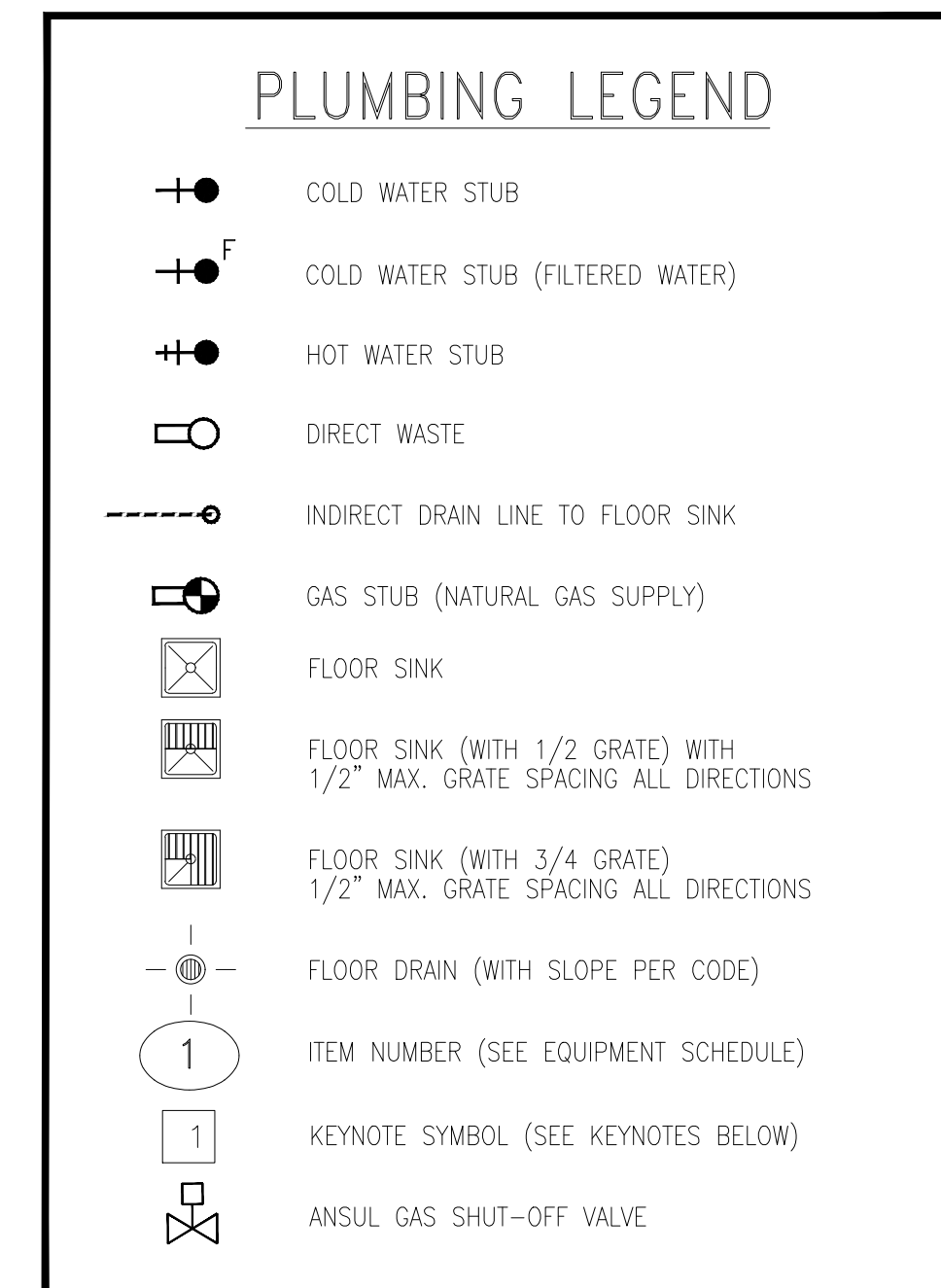


B POT SINK/GREASE INTERCEPTOR DETAIL NTS

NOTE:
 ALL PIPES MUST BE MIN. 6 INCHES OFF THE FLOOR IF GREASE TRAP UNIT IS LOCATED ABOVE THE FLOOR THEN THE UNIT MUST BE 6 INCHES MIN. AWAY FROM ALL WALLS.
 (SEE SHEET FS.02.0, FOOD FACILITY REQUIREMENTS NOTES, PLUMBING NOTES #24 & #31)



FOODSERVICE EQUIPMENT PLUMBING PLAN SCALE 1/4"=1'-0"



NOTE:
 REFERENCE TO PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE:
 SEE SHEET FS.02.0 FOR PLUMBING NOTES AND OTHER APPLICABLE NOTES

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PROJECT No. : 1-34-32
 7/5/2024 1:16 PM

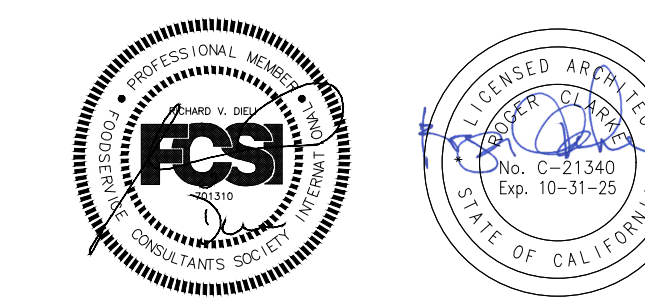
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**FOODSERVICE EQUIP.
 PLUMBING PLAN**

FS.03.0

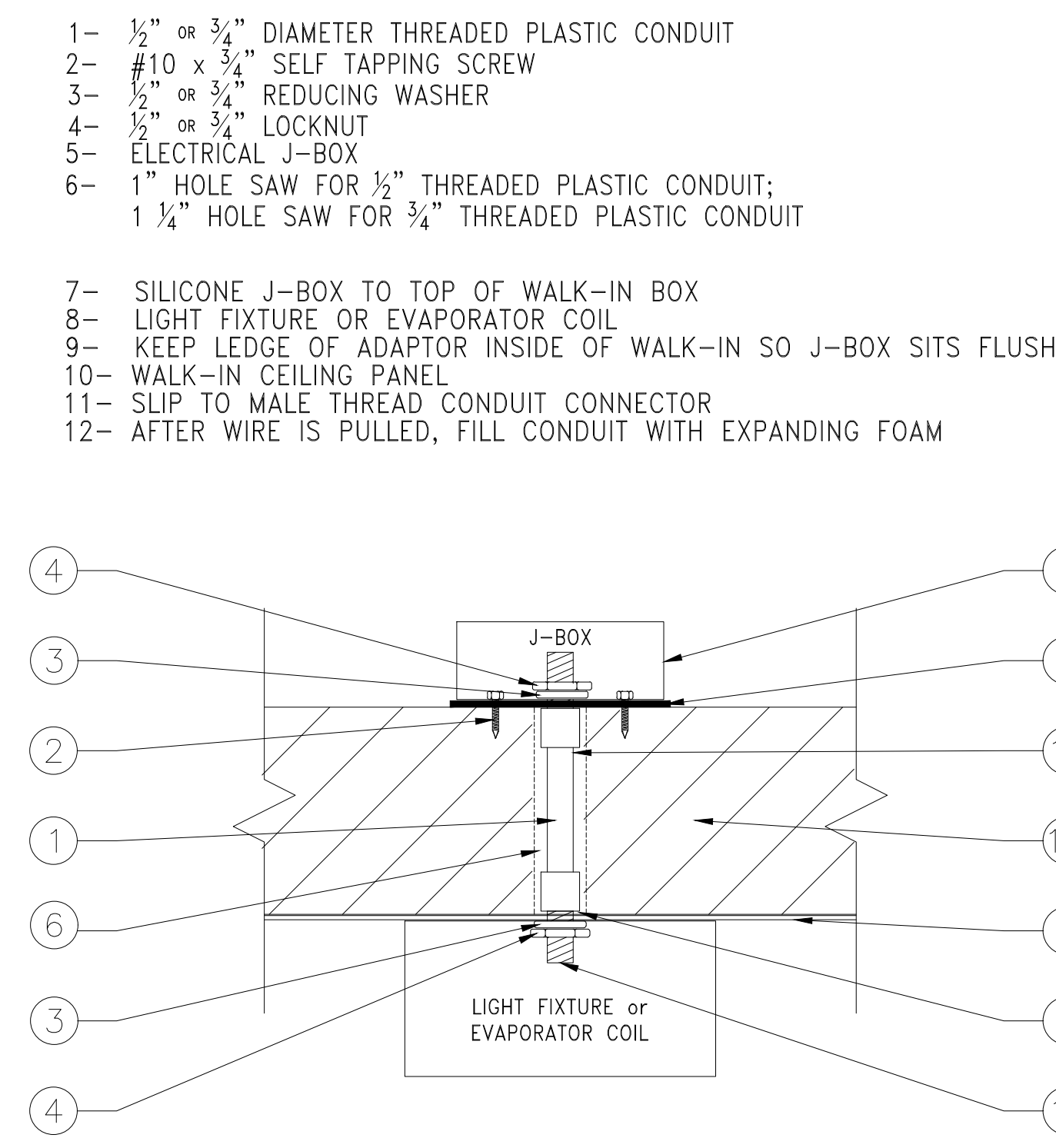
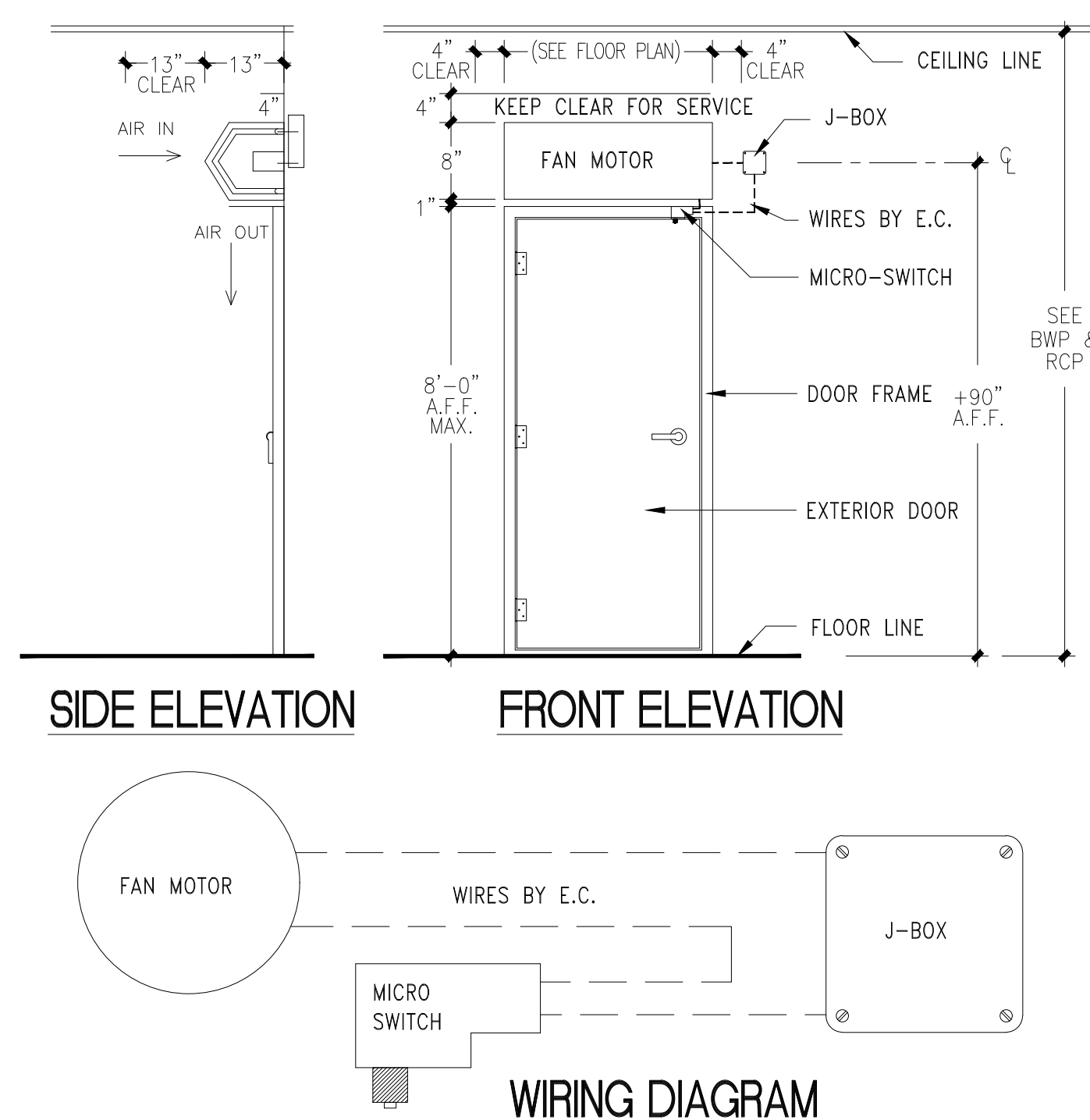


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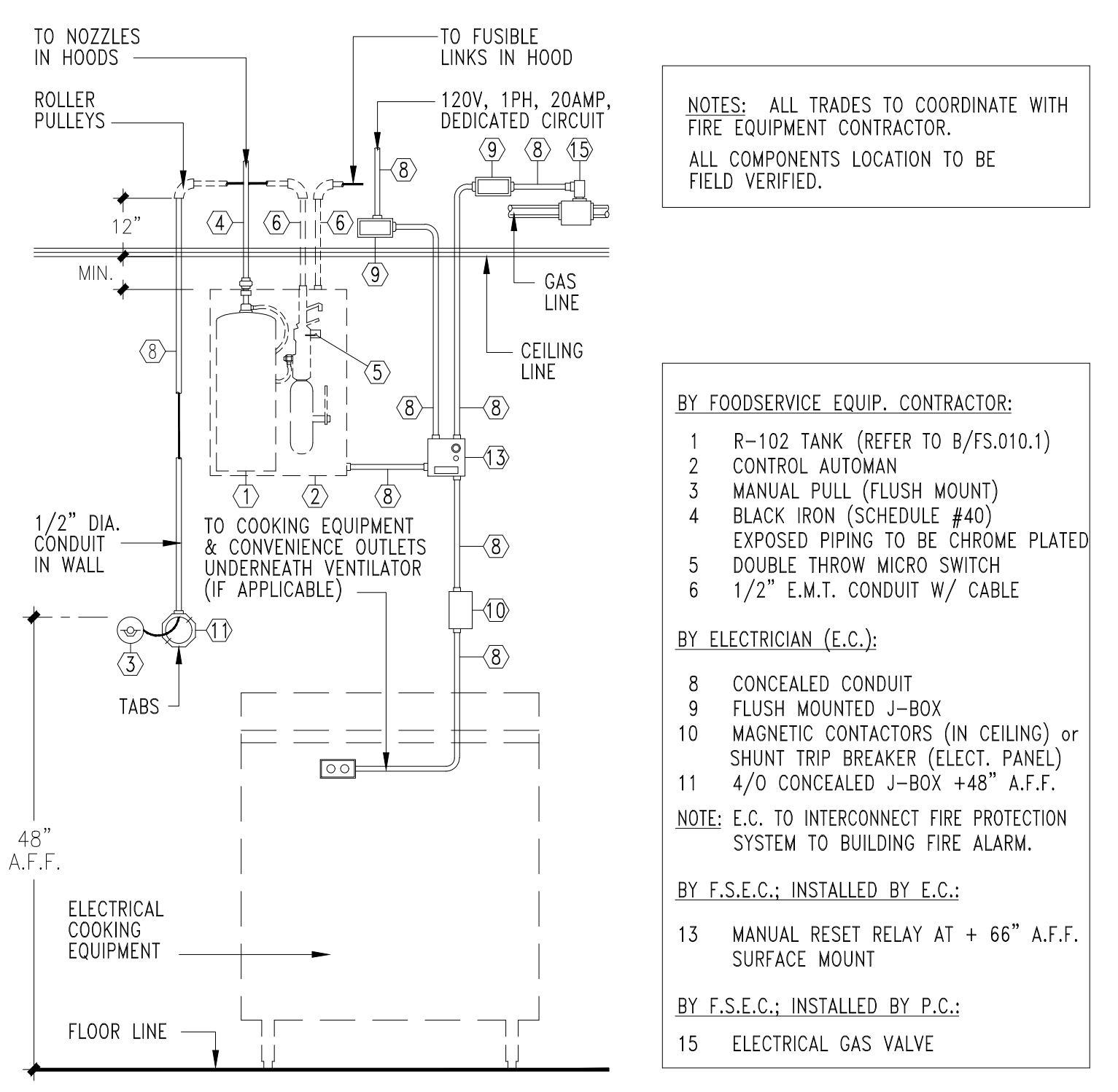
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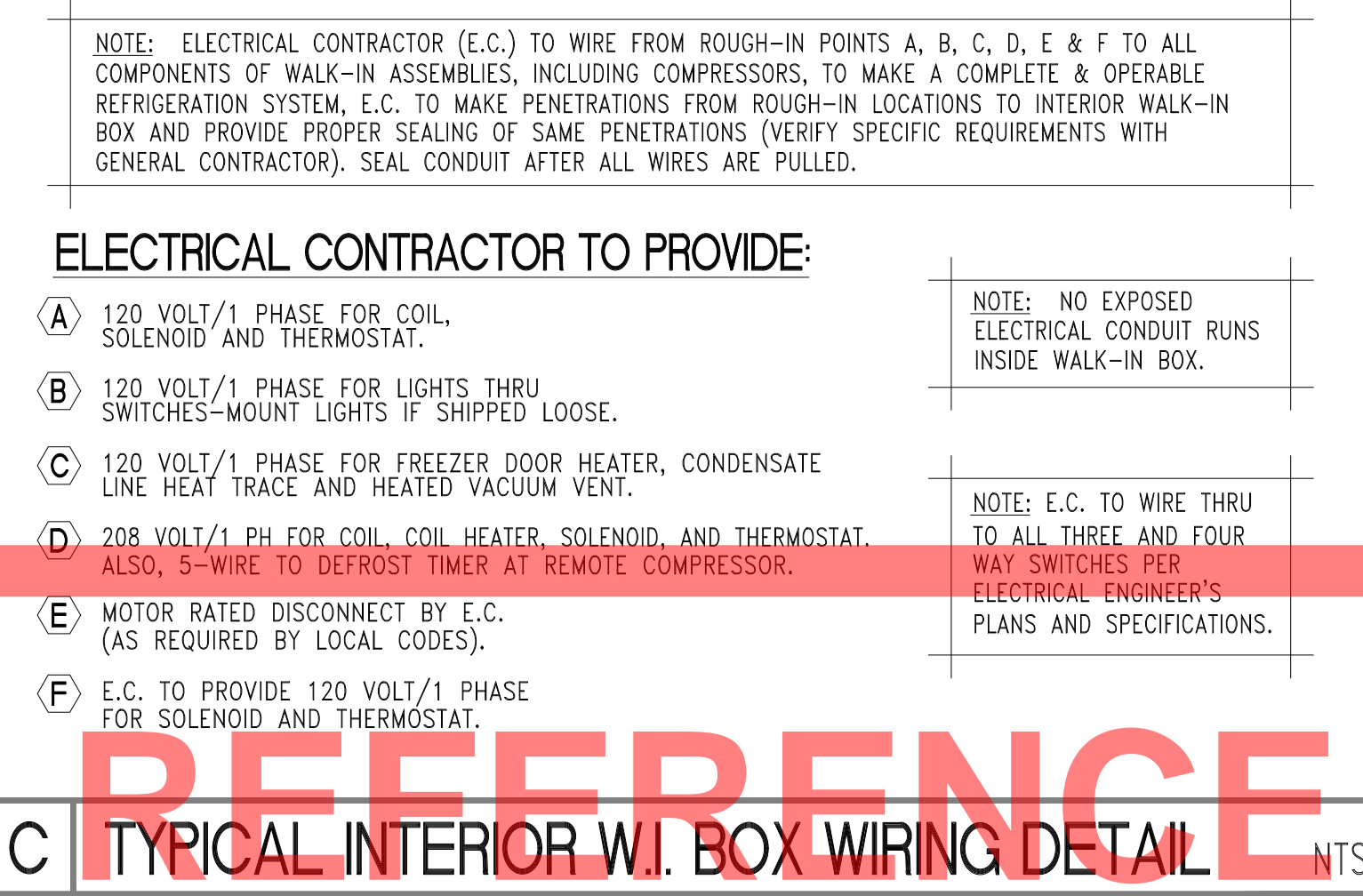
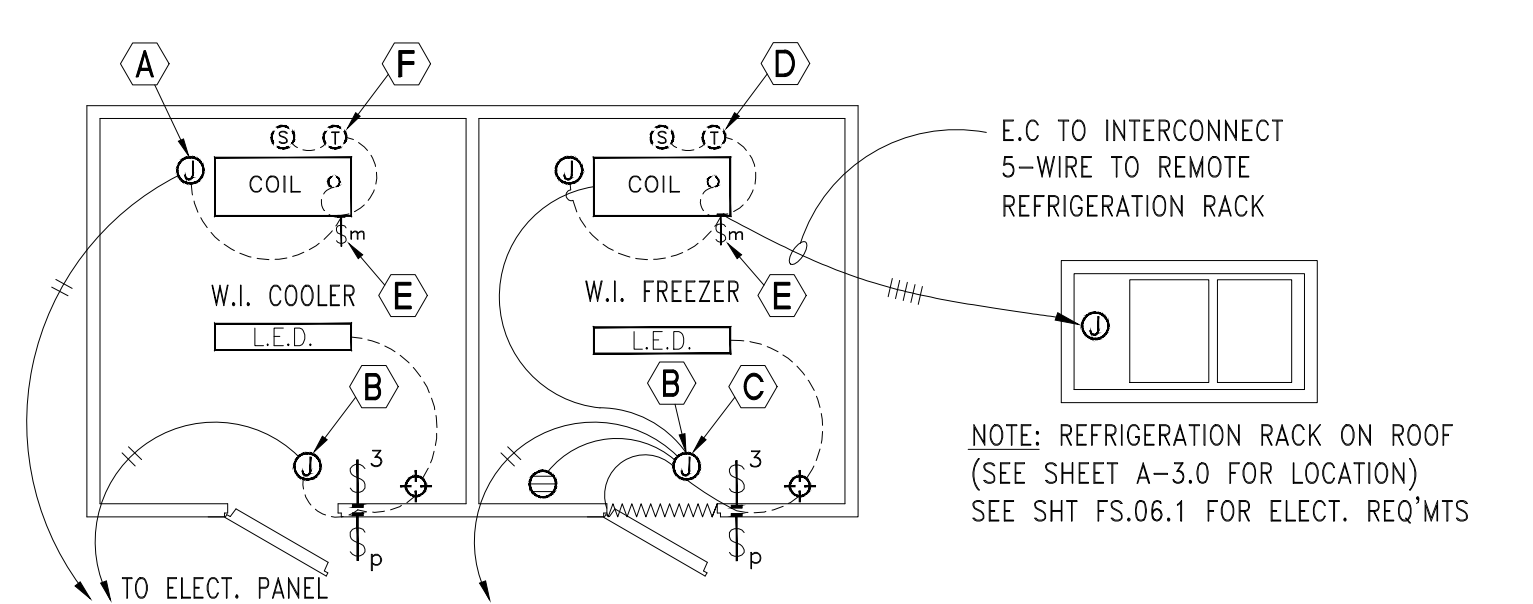


A WALL MTD AIR CURTAIN'S MICRO-SWITCH DET. NTS

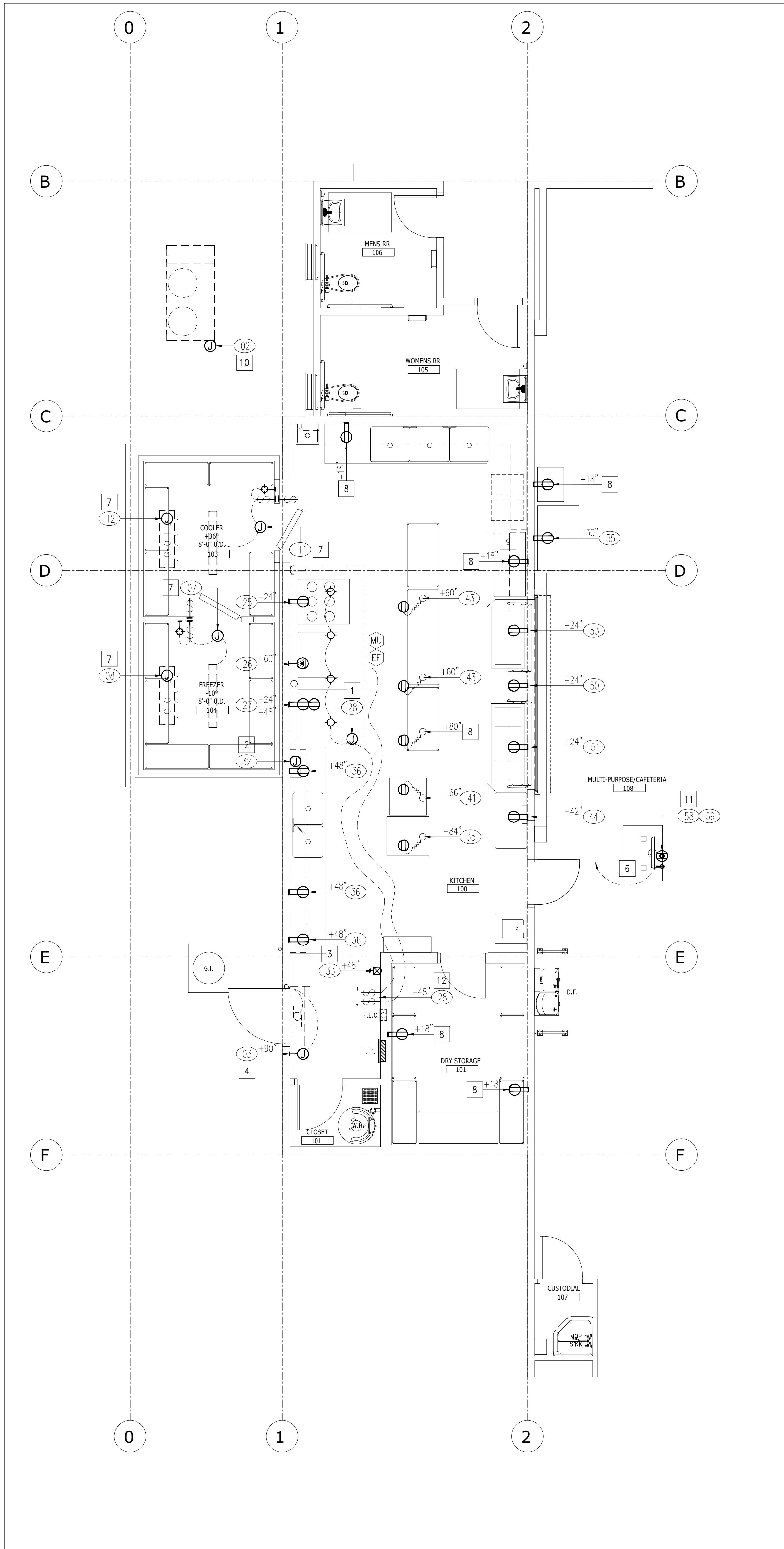
D WALK-IN CONDUIT WIRING ASSEMBLY NTS



B FIRE SUPPRESSION SYSTEM (ELECT) DETAIL NTS



C TYPICAL INTERIOR W.I. BOX WIRING DETAIL NTS



FOODSERVICE EQUIPMENT ELECTRICAL PLAN SCALE 1/4"=1'-0"

ELECTRICAL LEGEND

- 120 VOLT 1Ø CONVENIENCE OUTLET (C.O.)
- 120 VOLT 1Ø 8W LED LIGHT FIXTURE
- 120 V/1Ø DROP CORD DOWN FROM CEIL +60" A.F.F.
- JUNCTION BOX
- 208 VOLT 1Ø DR 3Ø DIRECT FLEXIBLE CONNECTION
- SWITCH
- SWITCH FOR HOOD LIGHTS
- INTERLOCK EXHAUST & M.U.A. FANS
- EXHAUST FAN
- MAKE-UP AIR FAN
- FIRE PULL-BOX (+48" MAX. A.F.F.)
- 120 VOLT 1Ø 36W LED HOOD OR W.I. LIGHT FIXTURE
- DATA LINE (VERIFY W/ELECTRICAL ENGINEER)
- ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- UTILITY MOUNTING HEIGHT ABOVE FINISHED FLOOR KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

ELECTRICAL KEYNOTES

- 1 J-BOX STUB-DOWN FROM ABOVE AND CONNECT TO HOOD LIGHTS
- 2 J-BOX LOCATED 12" ABOVE CEILING LINE FOR FIRE SUPPRESSION SYSTEM AUTOMAN (SEE DETAIL B/FS.04.0)
- 3 OCTAGON PULL BOX FOR FIRE SUPPRESSION SYSTEM - SEE DETAIL B/FS.04.0
- 4 WALL MOUNTED AIR CURTAIN'S MICRO SWITCH - SEE DETAIL A/FS.04.0
- 5 EXHAUST FAN AND LIGHT TO BE INTERLOCKED IN EMPLOYEE RESTROOM
- 6 DATA LINE TO SERVER VERIFY LOCATION WITH ELECTRICAL ENGINEER
- 7 TYPICAL WALK-IN BOX WIRING - SEE DETAIL C/FS.04.0
- 8 CONVENIENCE OUTLETS - 120 VOLTS 1Ø = 15 AMPS; 208 VOLTS 1Ø = 30 AMPS; VERIFY W/ELECTRICAL ENGINEER
- 9 ADDITIONAL CONVENIENCE OUTLETS, DATA & TELEPHONE LINES (IF APPLICABLE) TO BE VERIFIED W/ELECTRICAL ENGINEER
- 10 REFRIGERATION RACK LOCATED ON ROOF SEE SHEET A-3.0 FOR EXACT LOCATION
- 11 ALL ELECTRICAL TO STUB INTO FLOOR BOXES "BUMPED UP" 3/8" MAX. AT 2 TO 1 SLOPE TO PROTECT FROM WATER
- 12 EXHAUST & M.U.A. FAN MUST BE INTERLOCKED SWITCH
- 13 REFERENCE TO ELECTRICAL ENGINEER'S DRAWINGS FOR SHUNT TRIP/CONTACTOR AND EXH/M.U.A. INTERLINK WIRING INFO.

NOTE:
 REFERENCE TO ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION

NOTE:
 ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND COORDINATED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR

NOTE:
 ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY THE E.C. AND COORDINATED BY THE FOOD SERVICE EQUIP. CONTRACTOR

NOTE:
 SEE SHEET FS.02.0 FOR ELECTRICAL NOTES AND OTHER APPLICABLE NOTES

PROJECT No. : 1-34-32
 7/5/2024 1:19 PM

ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION

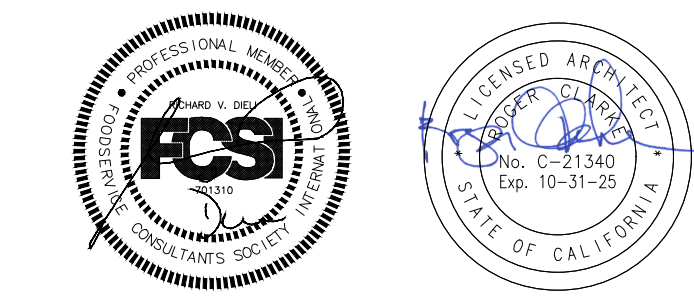
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**FOODSERVICE EQUIP.
 ELECTRICAL PLAN**

FS.04.0

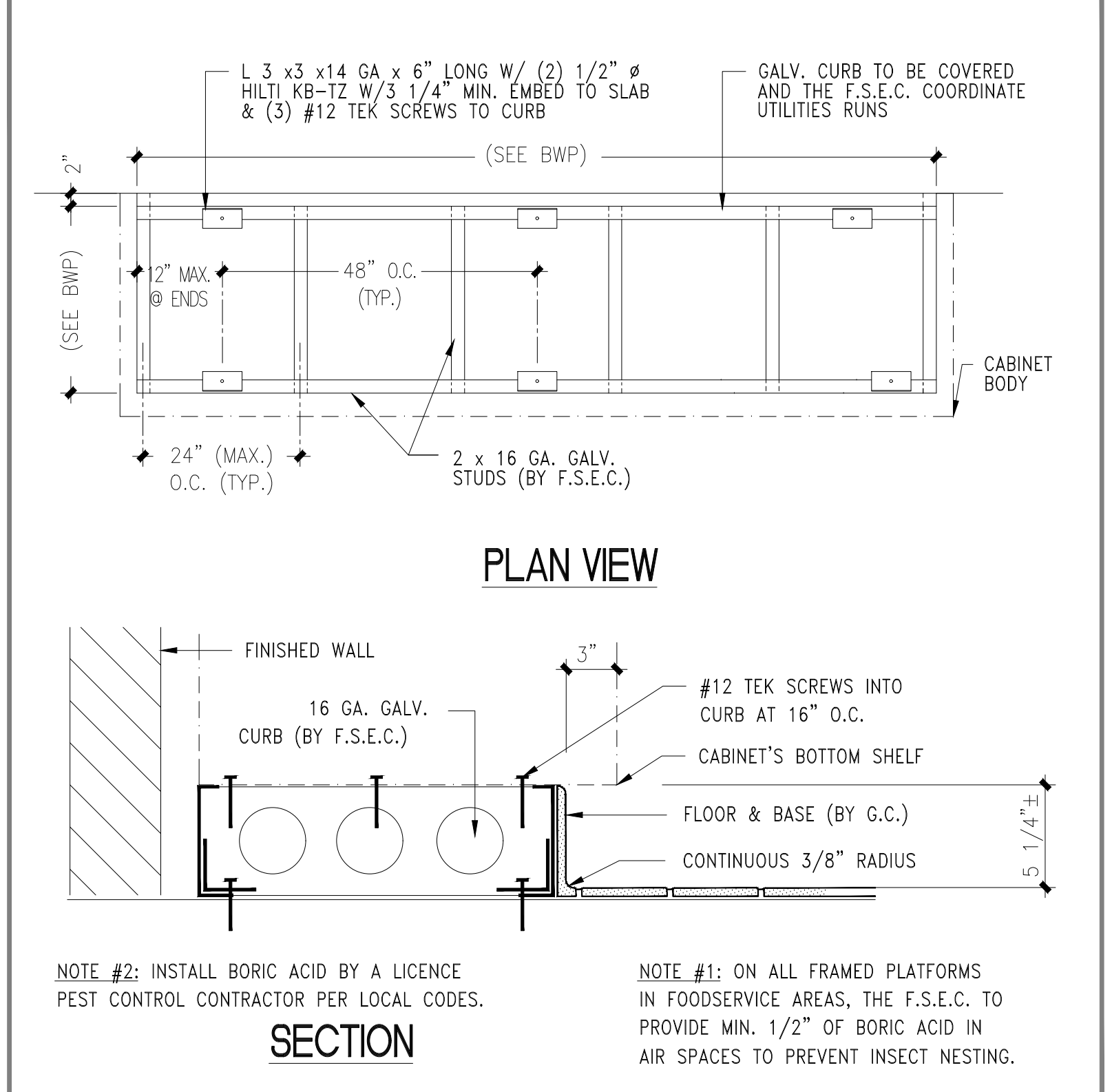


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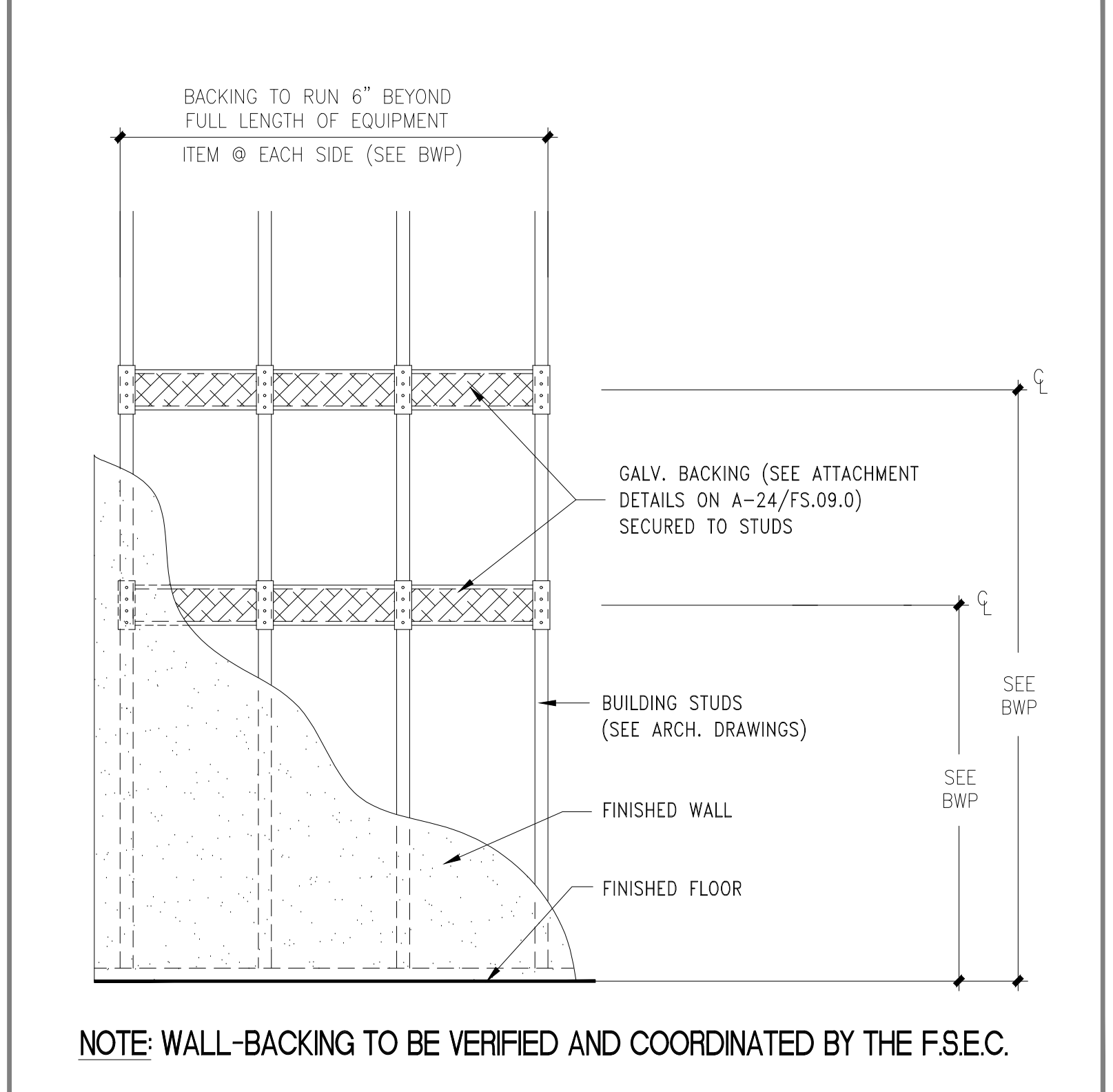
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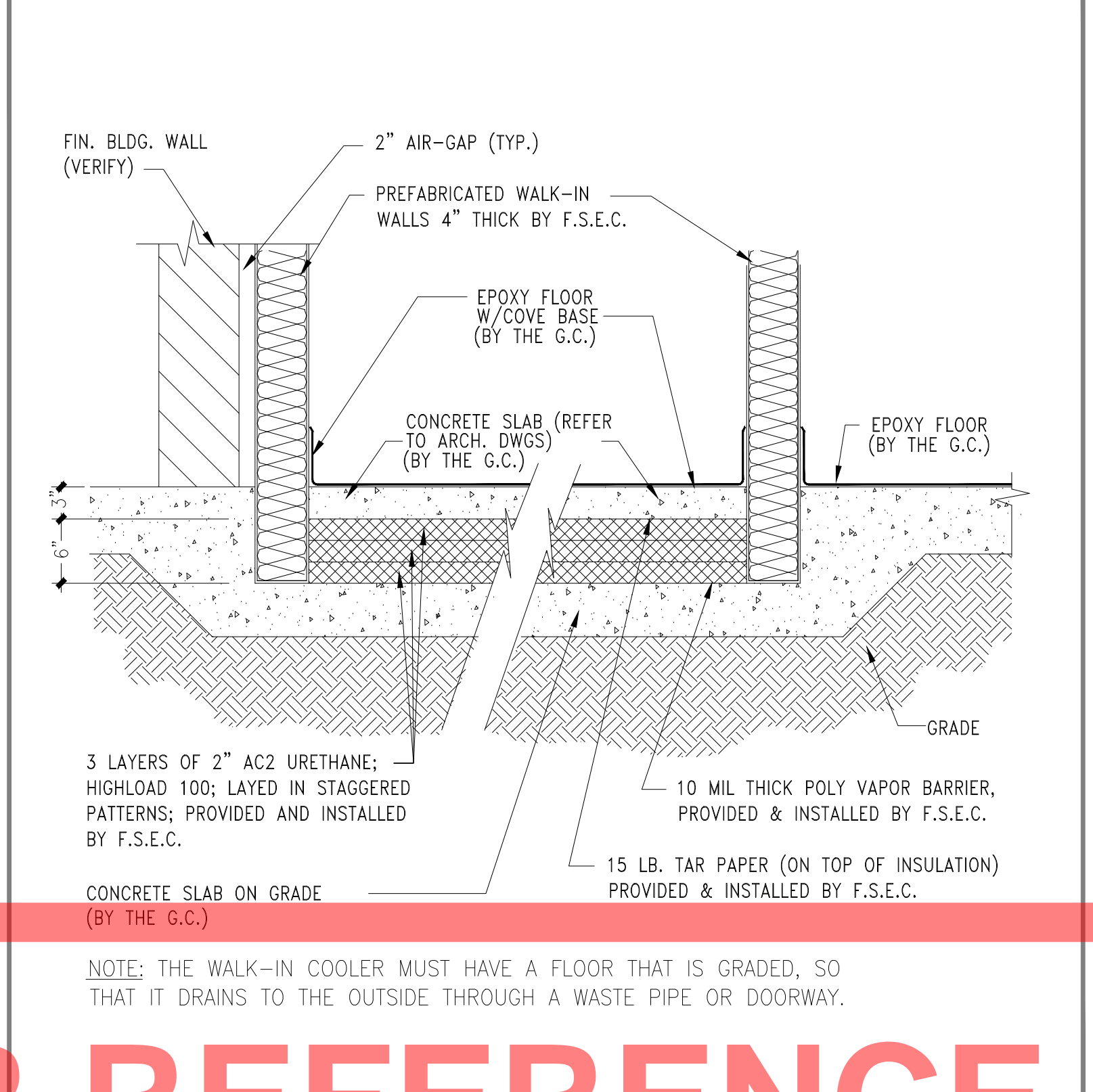
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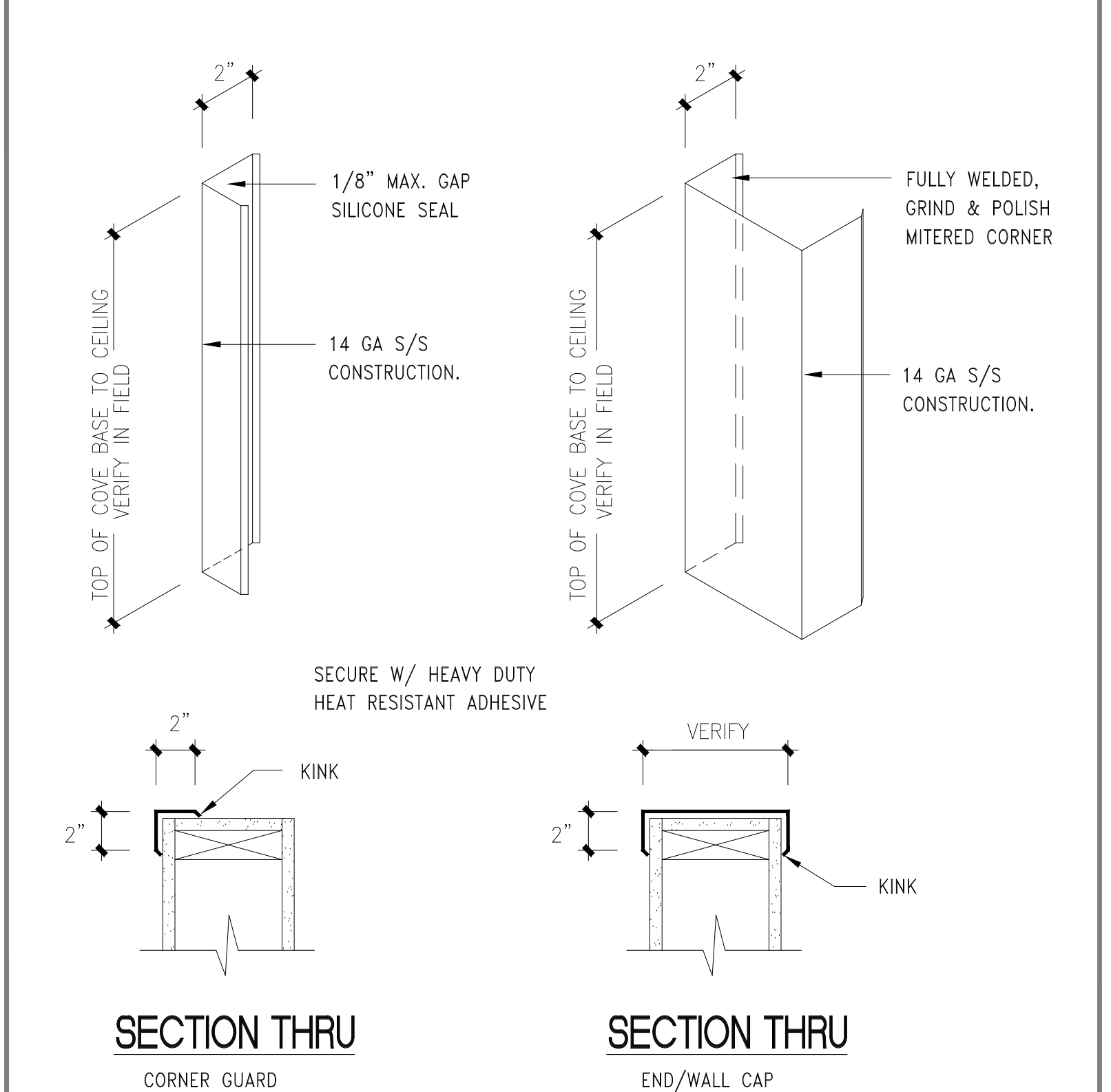
A GALVANIZED CURB FOR COUNTER DETAIL NTS



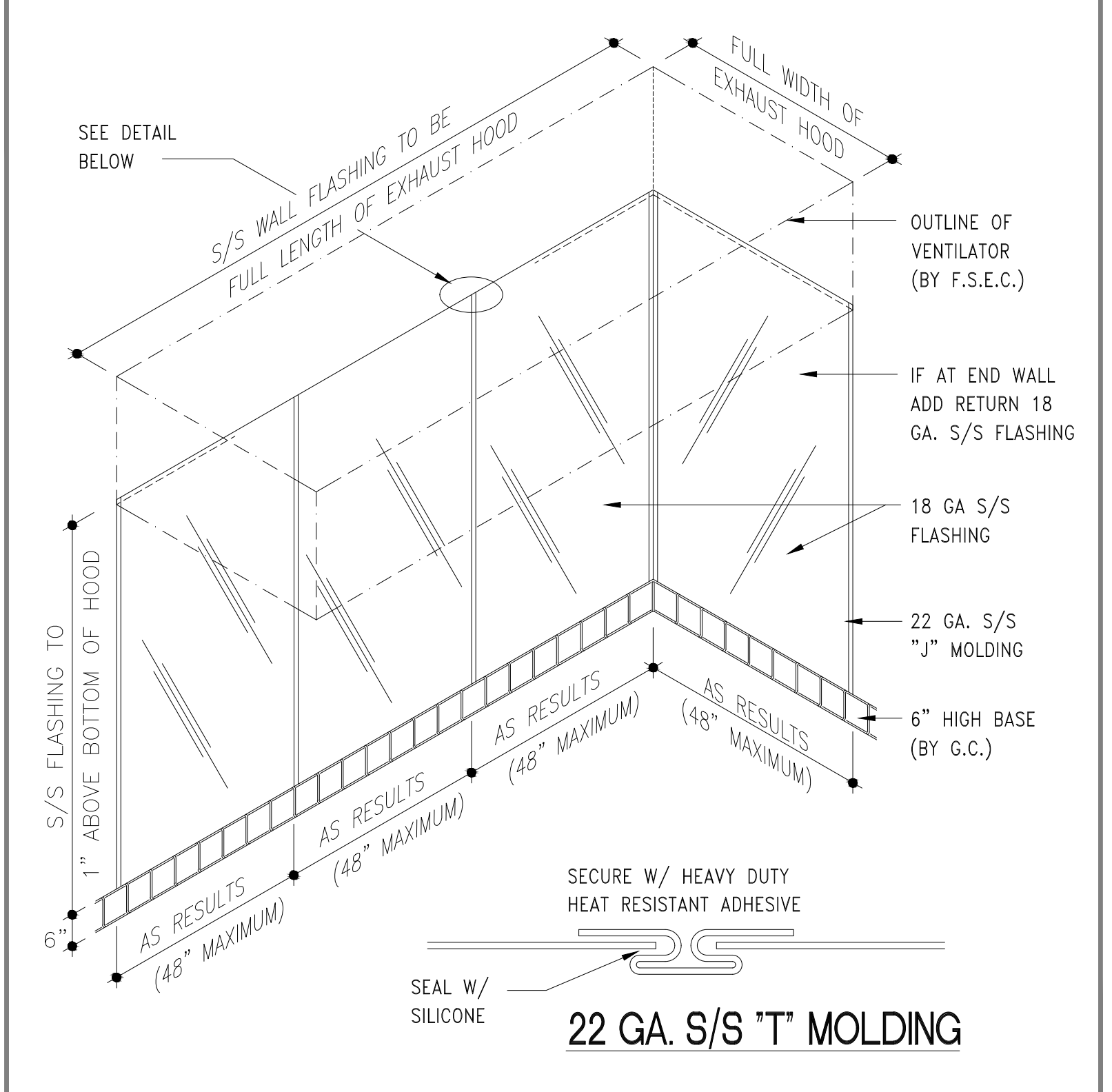
B WALL BACKING DETAIL NTS



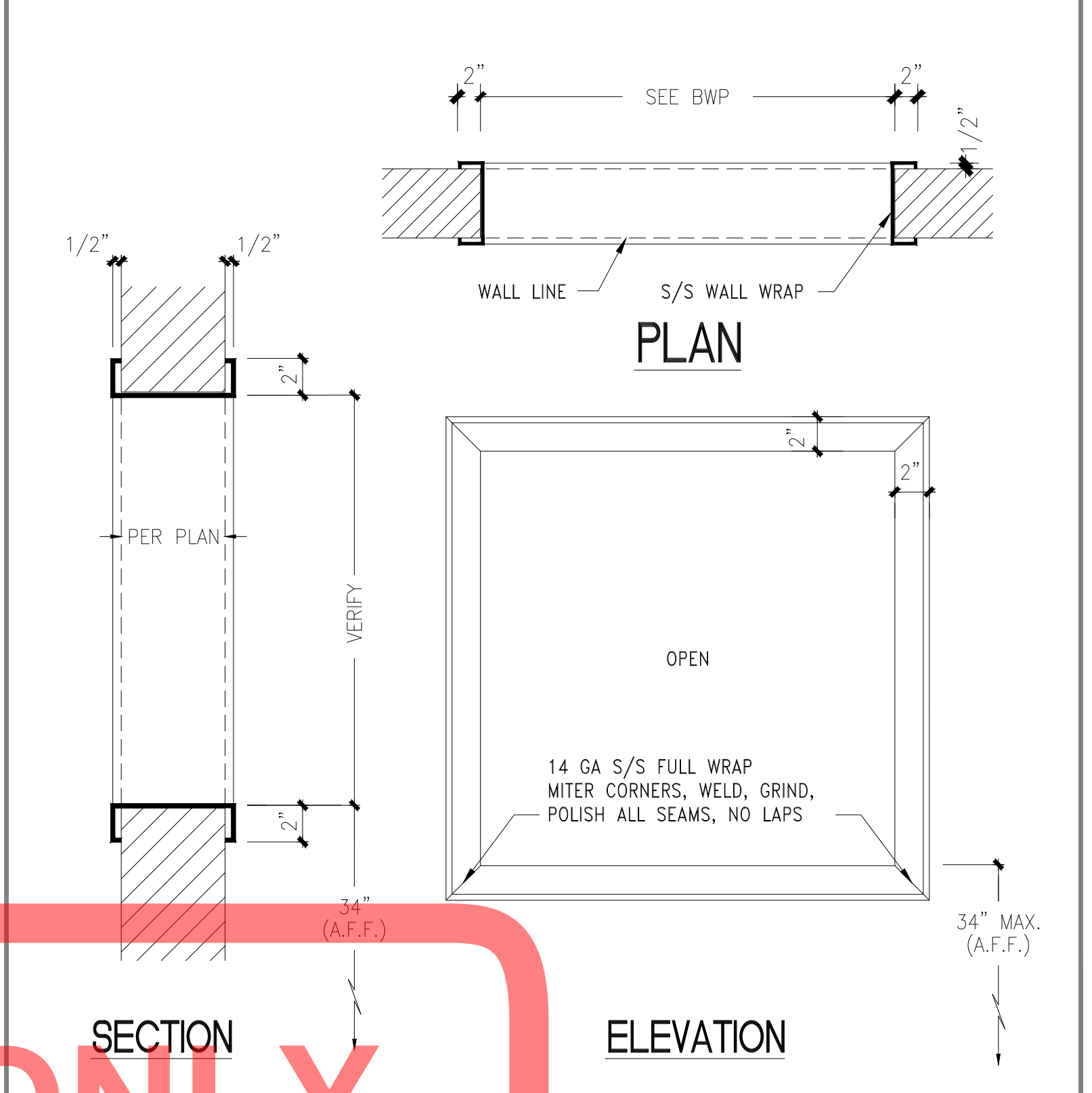
C WALK-IN FLOOR 9" DEEP DEPRESSION DET. NTS



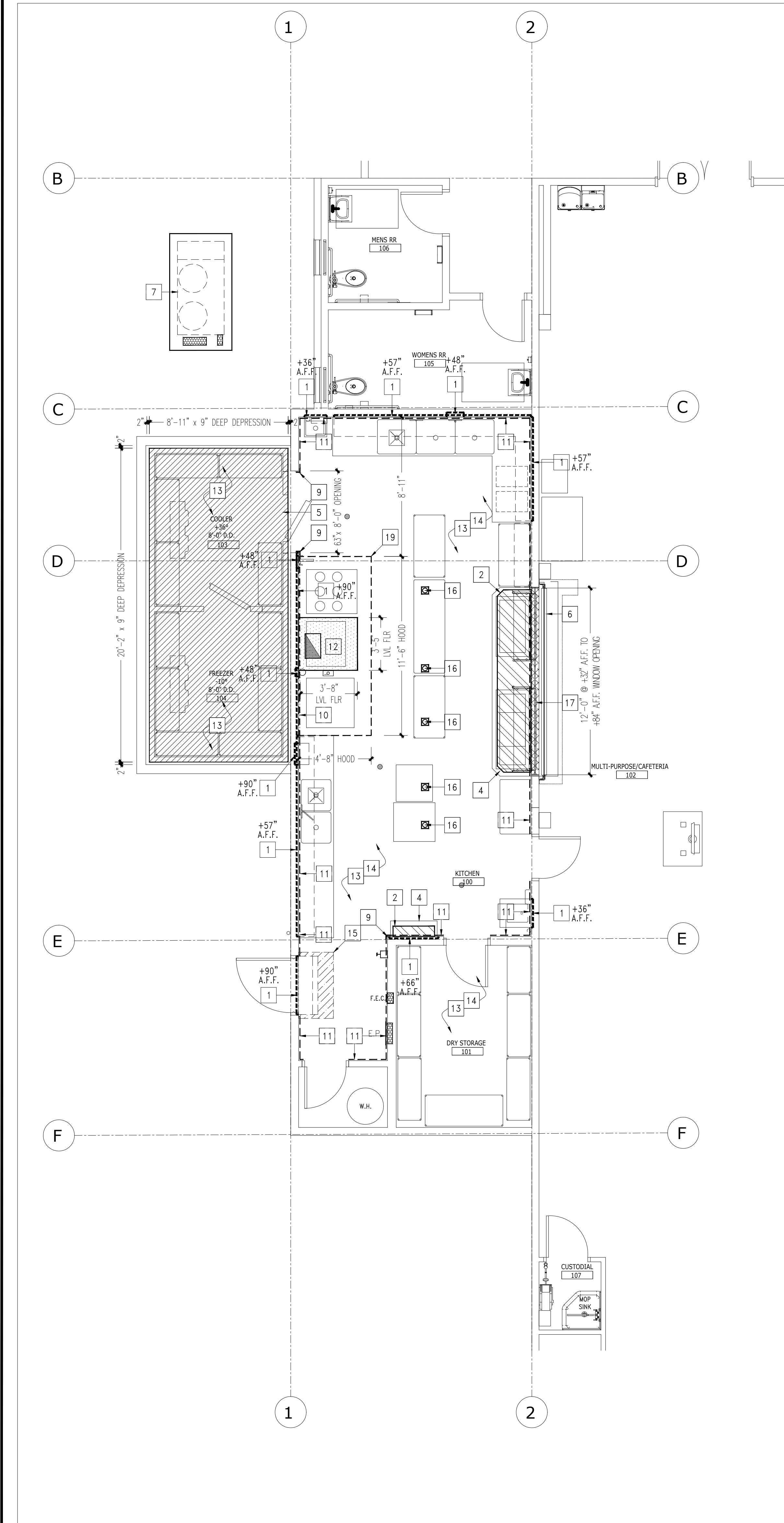
D S/S CORNER GUARD/END CAP/WALL CAP NTS



E 18 GA. S/S WALL FLASHING DETAIL NTS

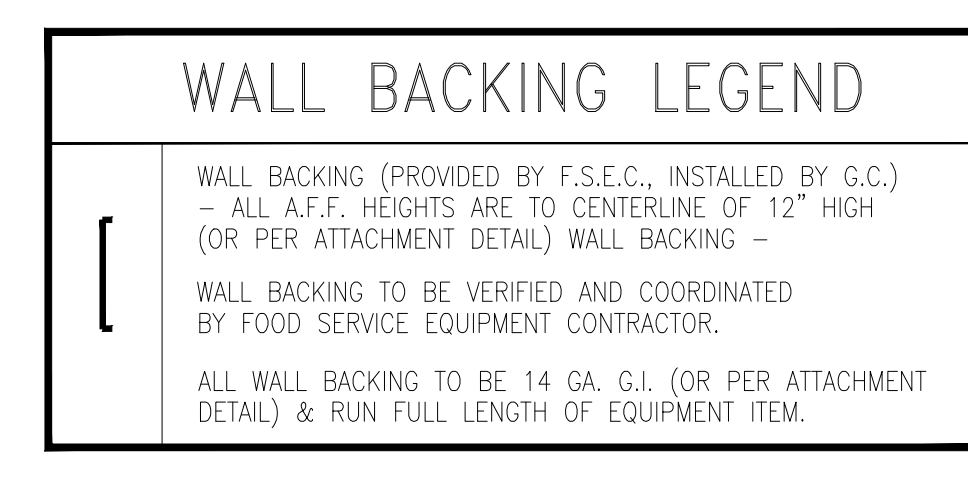
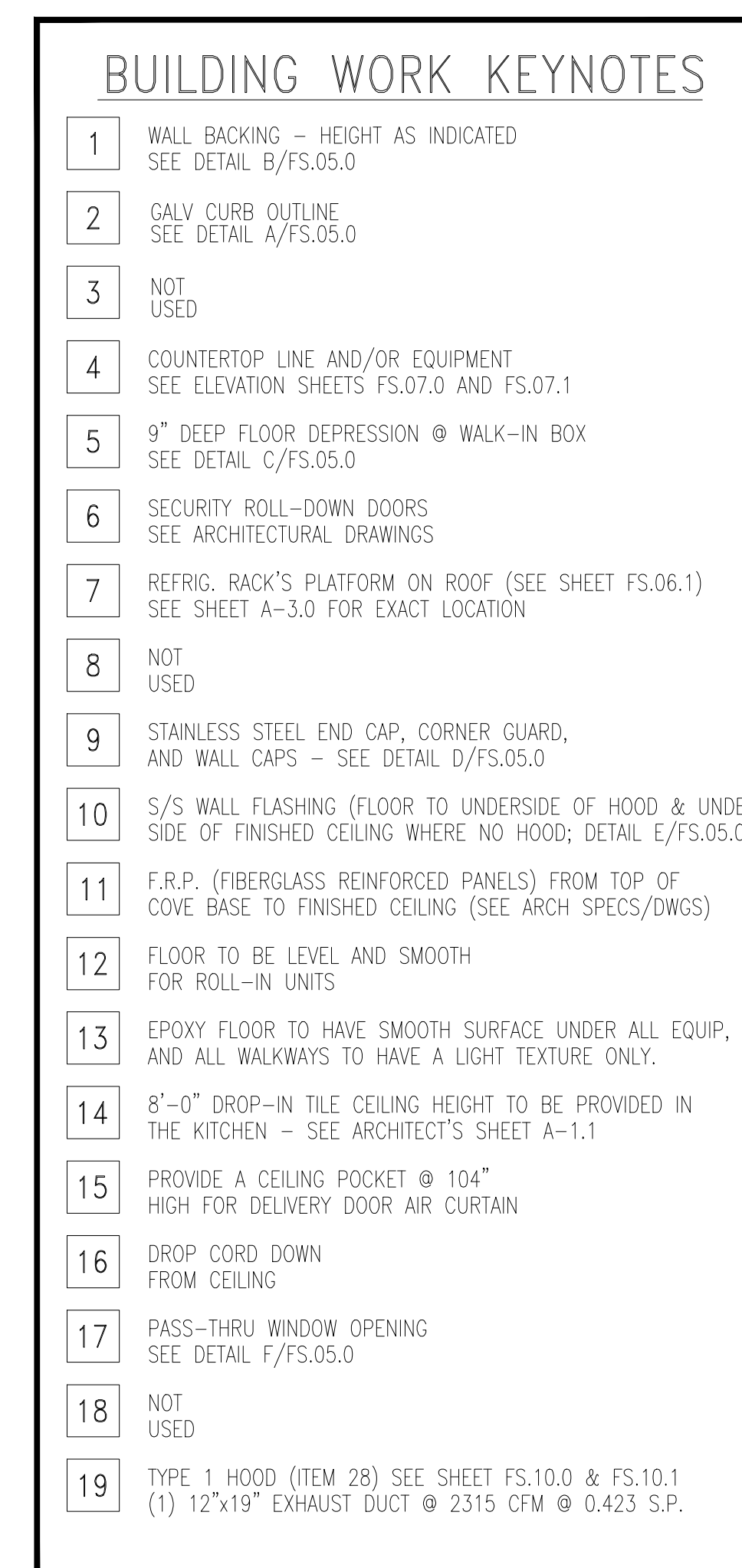
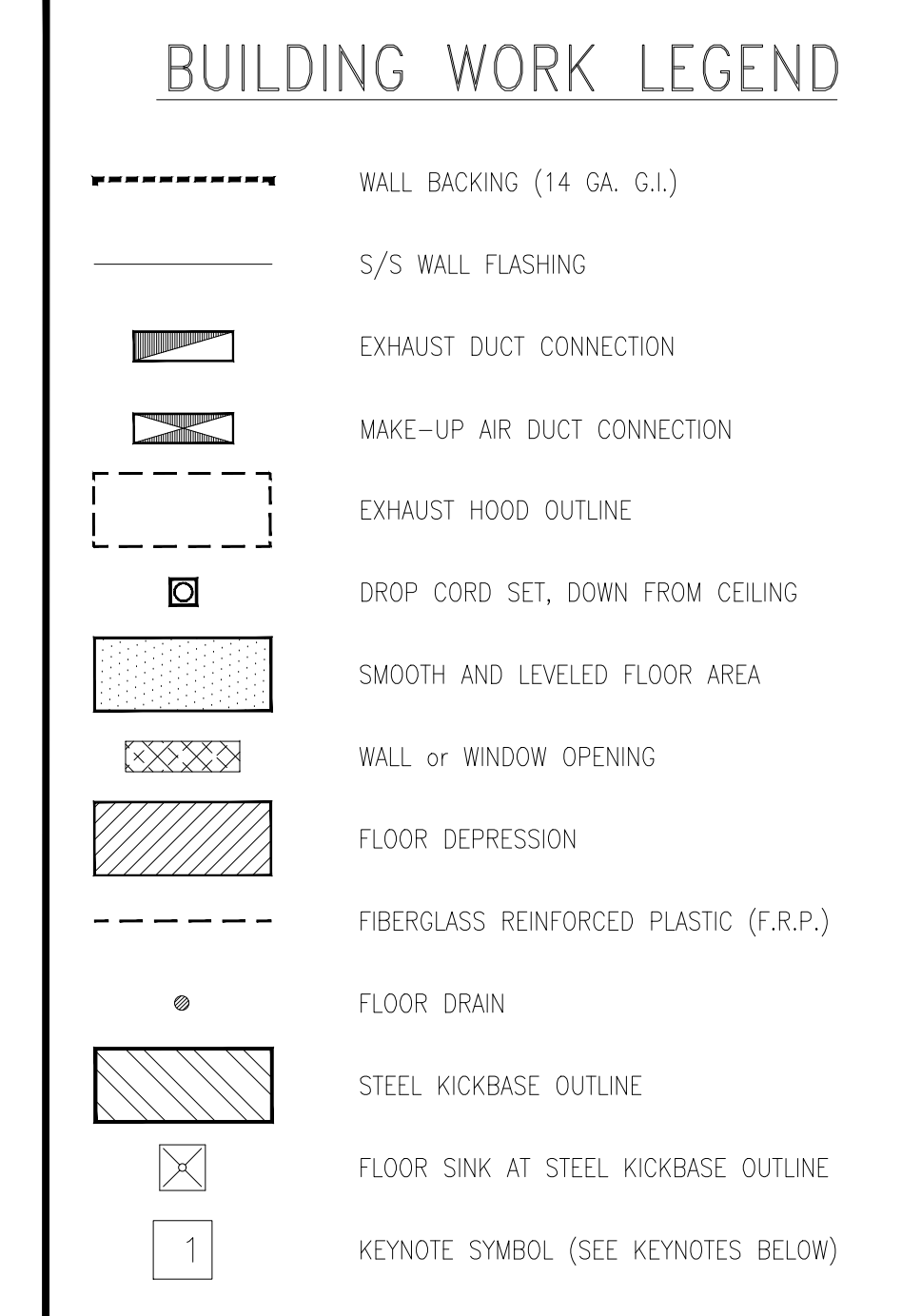


F PASS-THRU WALL OPENING NTS



FOODSERVICE EQUIP. BUILDING WORK PLAN SCALE 1/4"=1'-0"

NOTE:
 SEE SHEET FS.02.0 FOR EXHAUST, BLDG., HVAC NOTES AND OTHER APPLICABLE NOTES



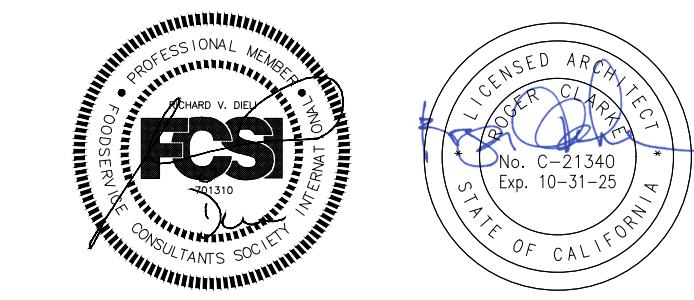
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**FOODSERVICE EQUIP.
 BUILDING WORK PLAN**
FS.05.0



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 Phone: 714.508.1880

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 ARCHITECTS**

CONSULTANT BRANDING

REFRIGERATION LEGEND

- CONDUIT FOR REFRIGERATION LINES (RUN UNDER FLOOR)
- [] REMOTE COMPRESSOR (ON REFRIGERATION RACK)
- REFRIGERATION SYSTEM (SEE SCHEDULE ON SHEET FS.06.1)
- REFRIGERATION LINE (RUN FROM REFRIGERATION RACK)
- REMOTE REFRIGERATED BASE AND/OR EQUIPMENT
- S/C SELF-CONTAINED REFRIGERATED BASE AND/OR EQUIPMENT
- ACCESS PULL-BOX FOR REFRIG. LINES (IN THE WALL)
- PVC CONDUIT FOR SODA AND CO2 LINES (RUN UNDER FLOOR)
- PVC CONDUIT TO STUB-UP AT HEIGHT INDICATED
- 1 ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- 1 KEYNOTE SYMBOL (SEE KEYNOTES BELOW)

REFRIG PLAN KEYNOTES

- 1 REFRIGERATED EQUIPMENT AND/OR SYSTEM FOR ADDITIONAL INFO. SEE SHEET FS.06.1
- 2 REFRIGERATION LINES STUB-DOWN FROM CEILING THRU TO EVAP COIL - SEE DETAIL B/FS.06.1
- 3 REFRIGERATION RACK FOR REMOTE COMPRESSORS LOCATED ON THE ROOF (SEE SHEET FS.06.1)
- 4 REFRIGERATION LINES RUN ABOVE CEILING LINE (UNISTRUT TRAPEZE OR SIMILAR), EXTEND FROM REFRIGERATION RACK LOCATION ON ROOF TO DROP-DOWN POINT AT WALL.
- 5 NOT USED

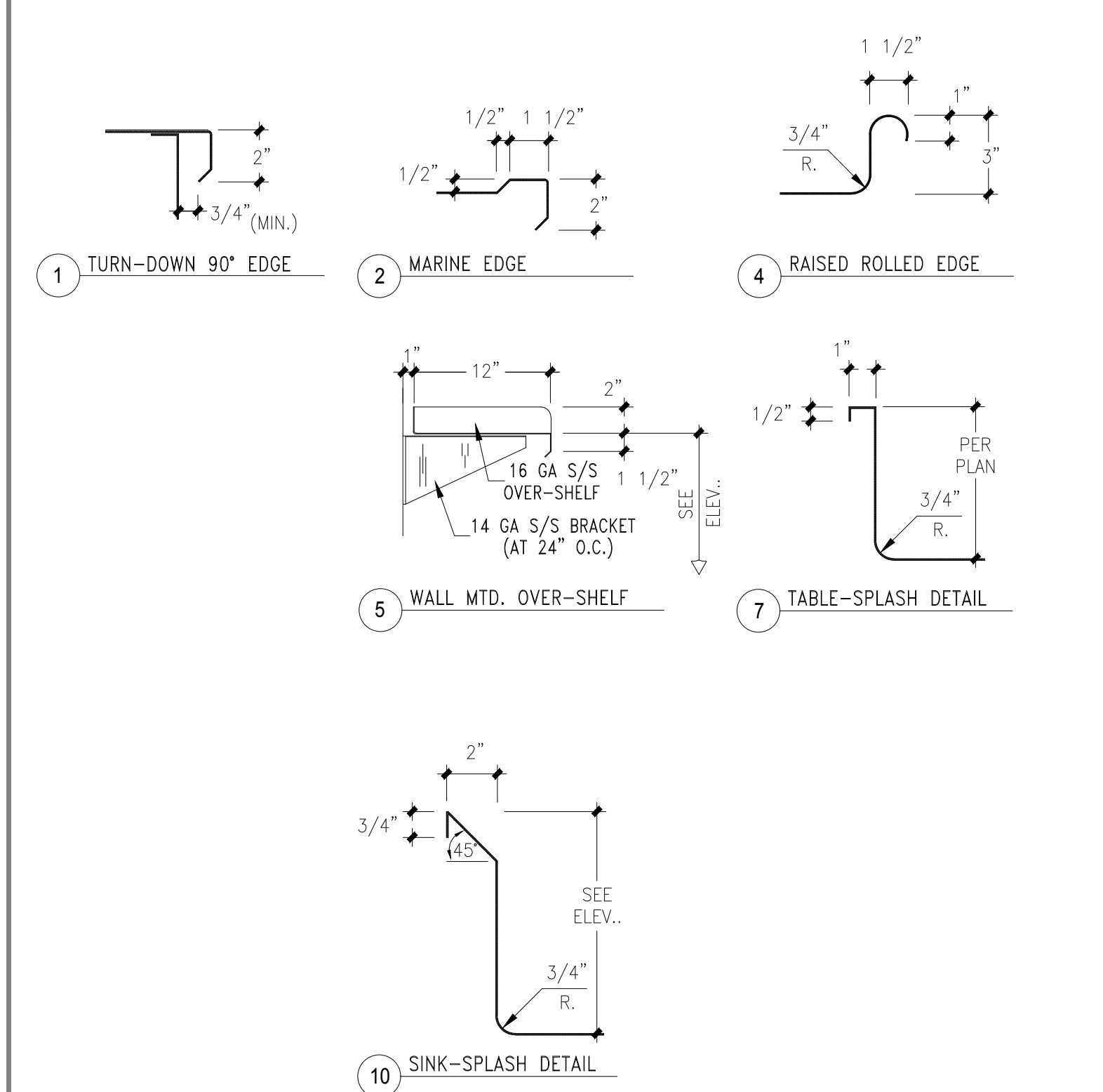
NOTE:
 ALL CONDUIT AND PULL BOXES WITH S/S COVERS TO BE SUPPLIED AND INSTALLED BY ELECT. CONTRACTOR & COORDINATED BY FOOD SERVICE EQUIPMENT CONTRACTOR

NOTE:
 SEALED & PRESSURIZED WITH 350 LBS. OF NITROGEN FOR 48 HOUR PERIOD. REFRIG. CONTRACTOR TO USE GAUGE TO VERIFY.

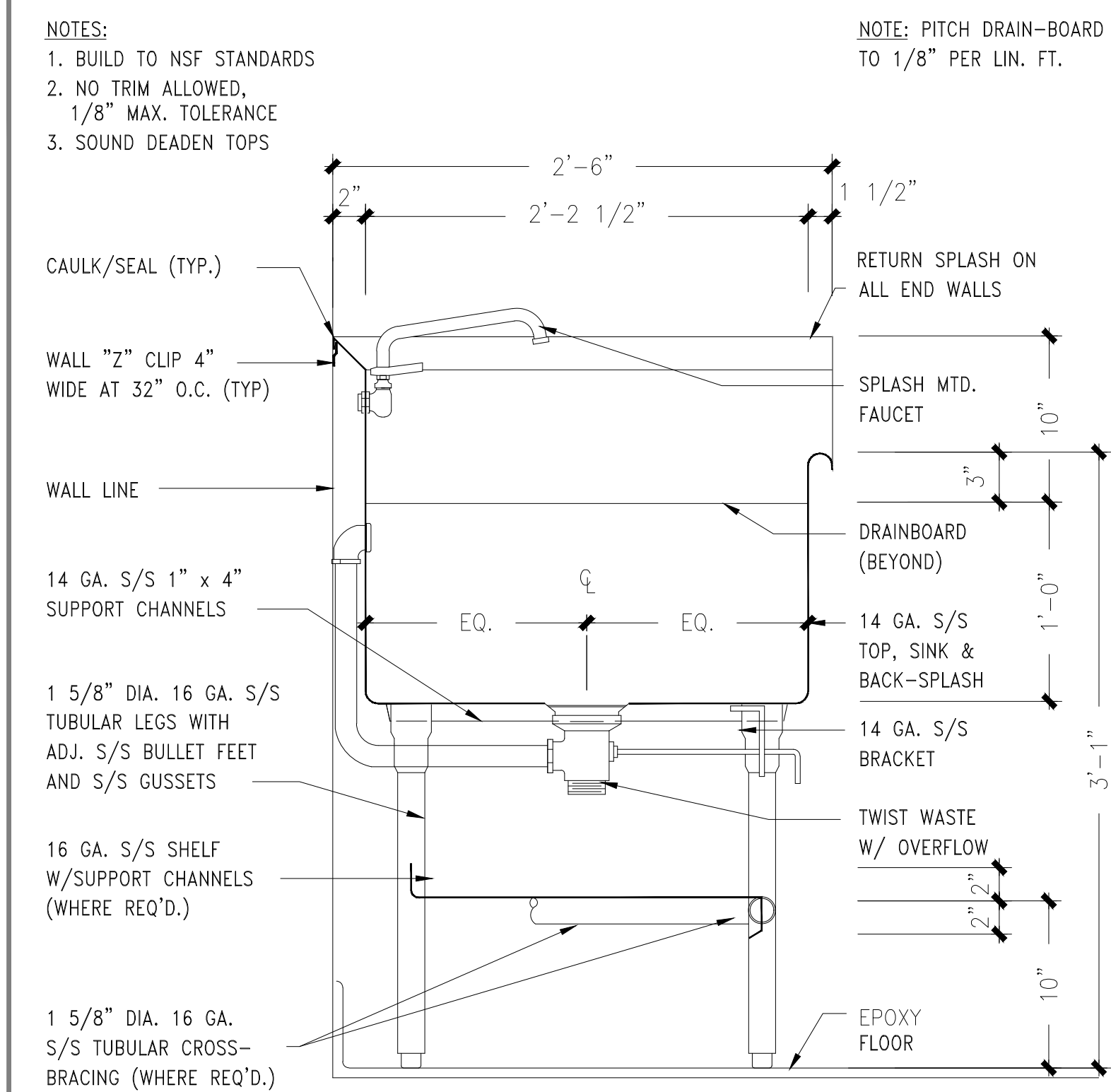
NOTE: REFRIGERATION LINES ARE FOR GRAPHIC PURPOSES ONLY. IT IS NOT MEANT TO SHOW ROUTING.

NOTE: SUCTION LINE TO SLOPE 1/2" PER 10'-0" MINIMUM TOWARDS COMPRESSOR ON HORIZONTAL RUNS.

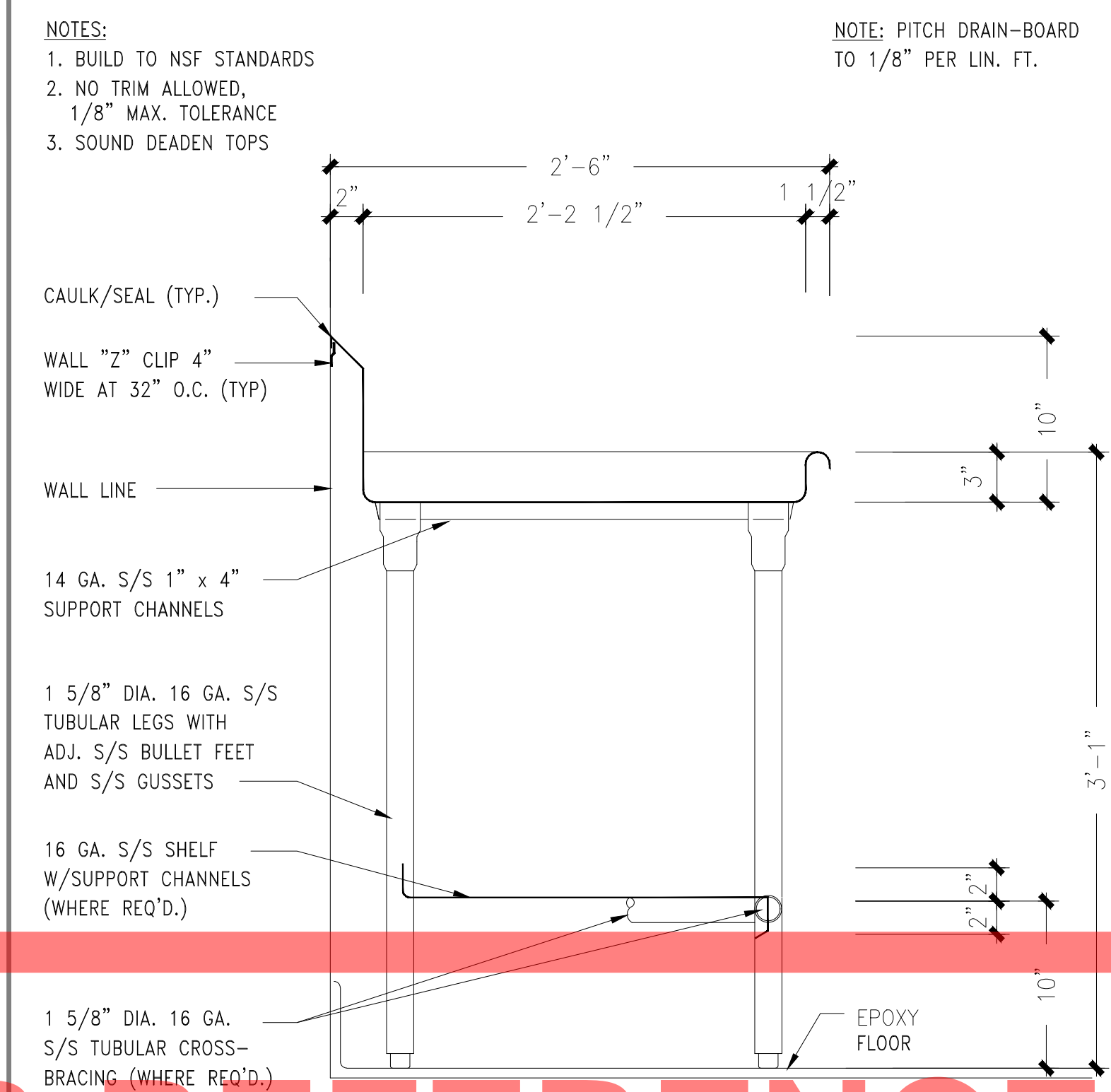
NOTE: SEE SHEET FS.02.0 FOR REFRIGERATION NOTES AND OTHER APPLICABLE NOTES



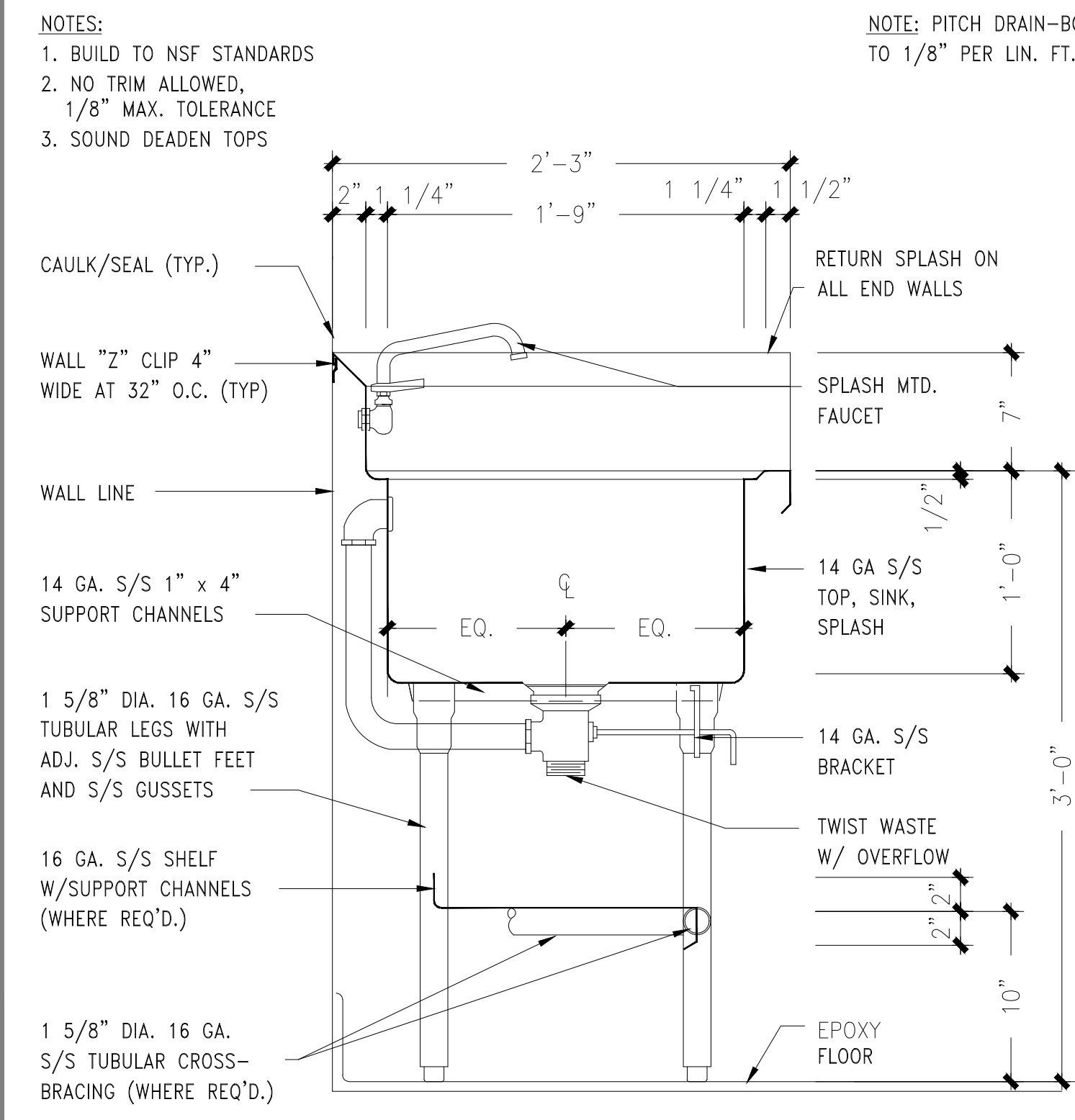
A EDGE / SPLASH / OVER-SHELF NTS



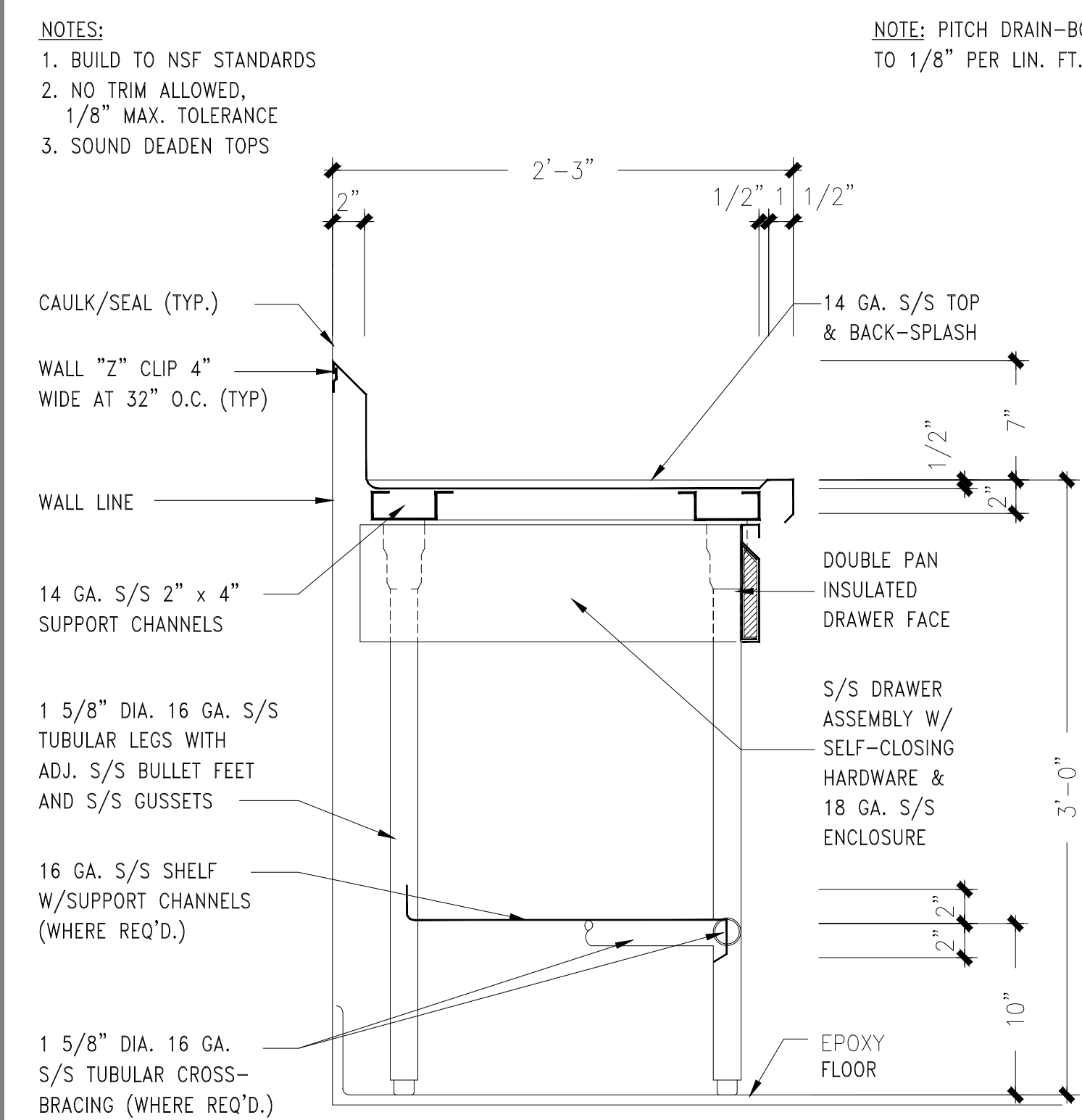
B SINK W/RAISED ROLLED EDGE SECTION 1 1/2"=1'-0"



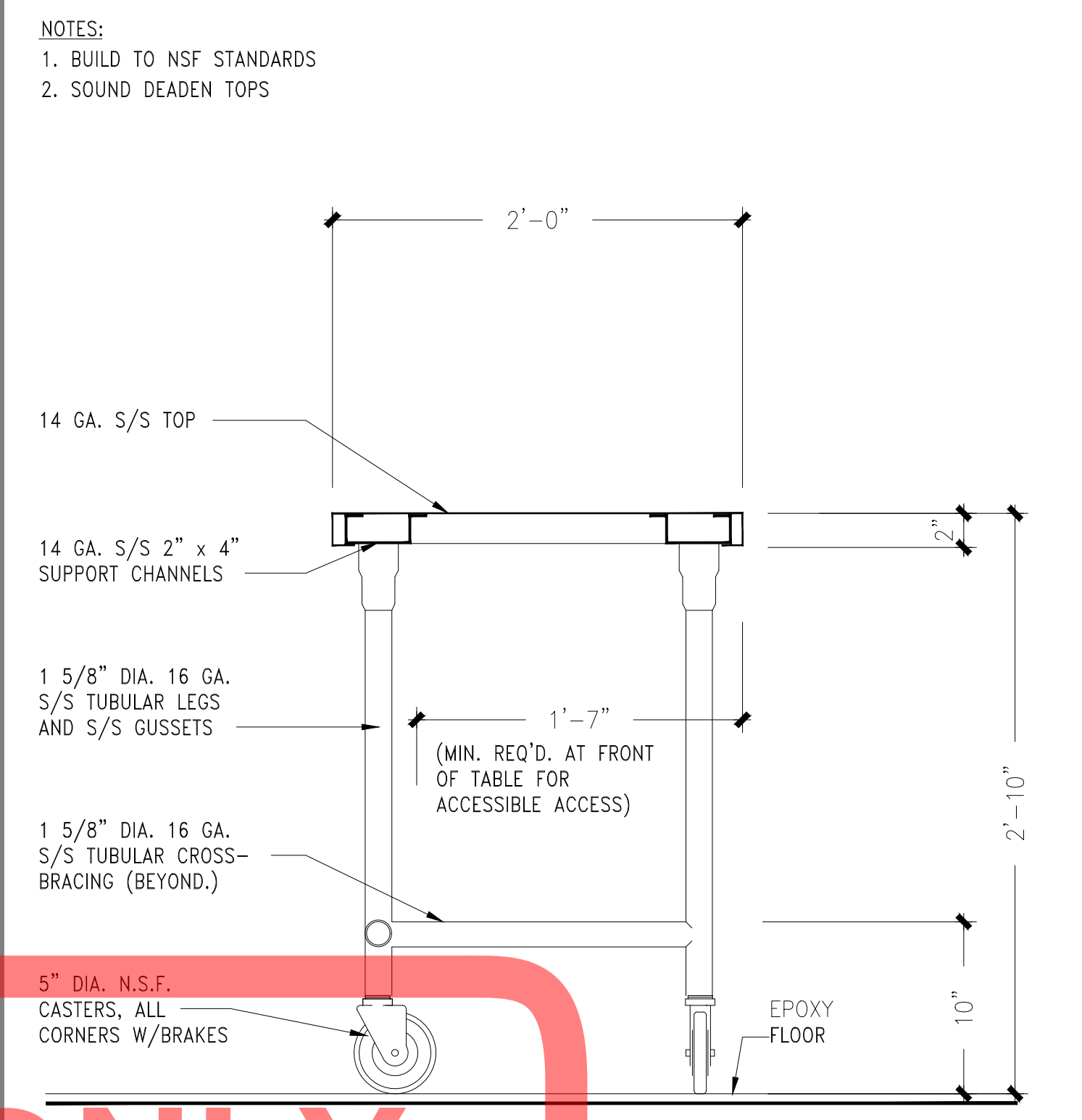
C CLEAN DISH-TABLE SECTION 1 1/2"=1'-0"



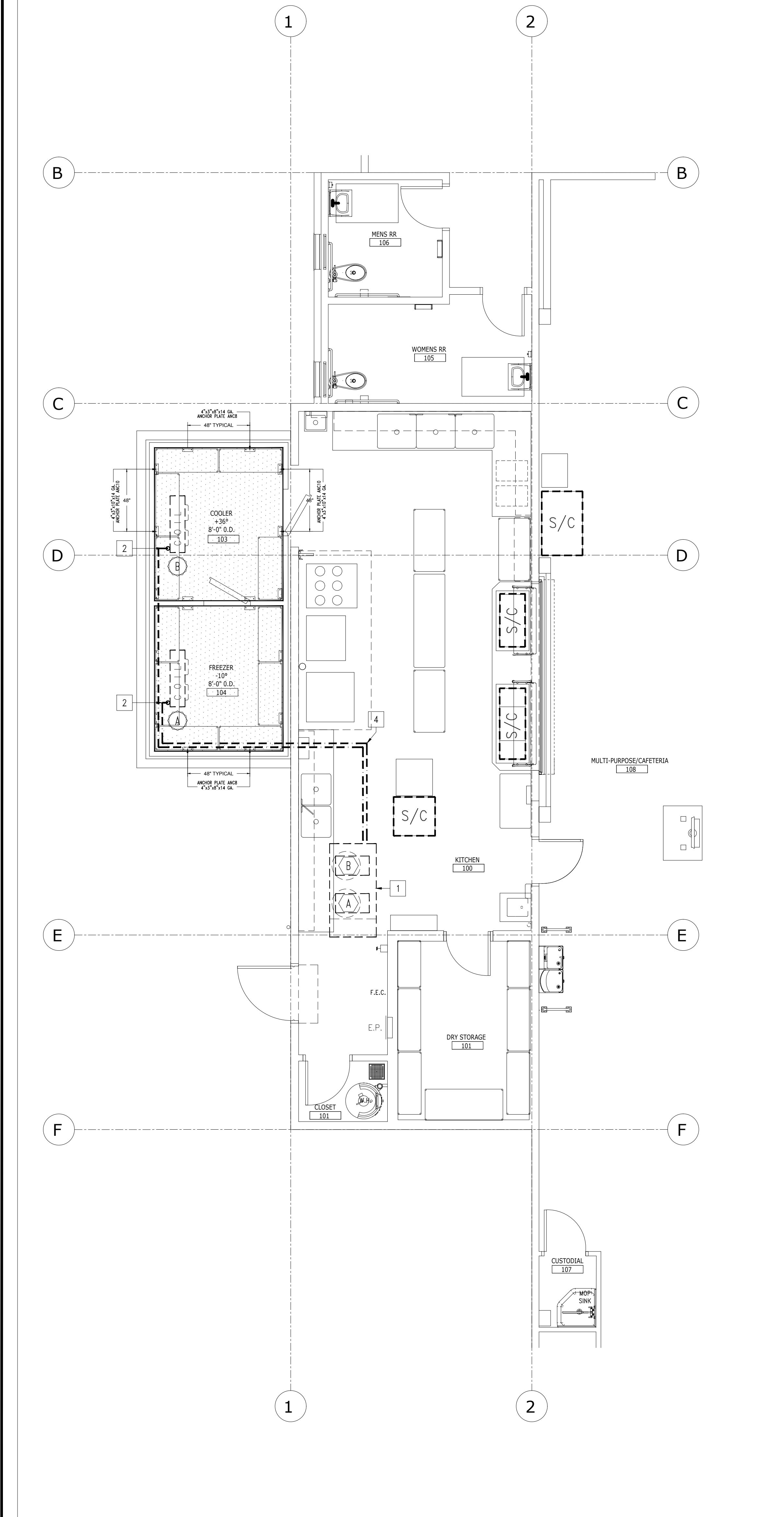
D PREP SINK W/MARINE EDGE SECTION 1 1/2"=1'-0"



E PREP TABLE W/MARINE EDGE SECTION 1 1/2"=1'-0"



F MOBILE ACCESSIBLE TABLE SECTION 1 1/2"=1'-0"



FOODSERVICE EQUIP REFRIGERATION PLAN SCALE 1/4"=1'-0"

PROJECT No. : 1-34-32
 7/3/2024 3:37 PM

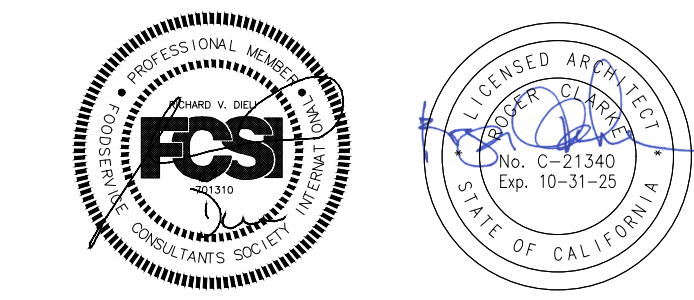
ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION

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 TWIN RIVERS UNIFIED SCHOOL DISTRICT

**FOODSERVICE EQUIP.
 REFRIGERATION PLAN**

FS.06.0

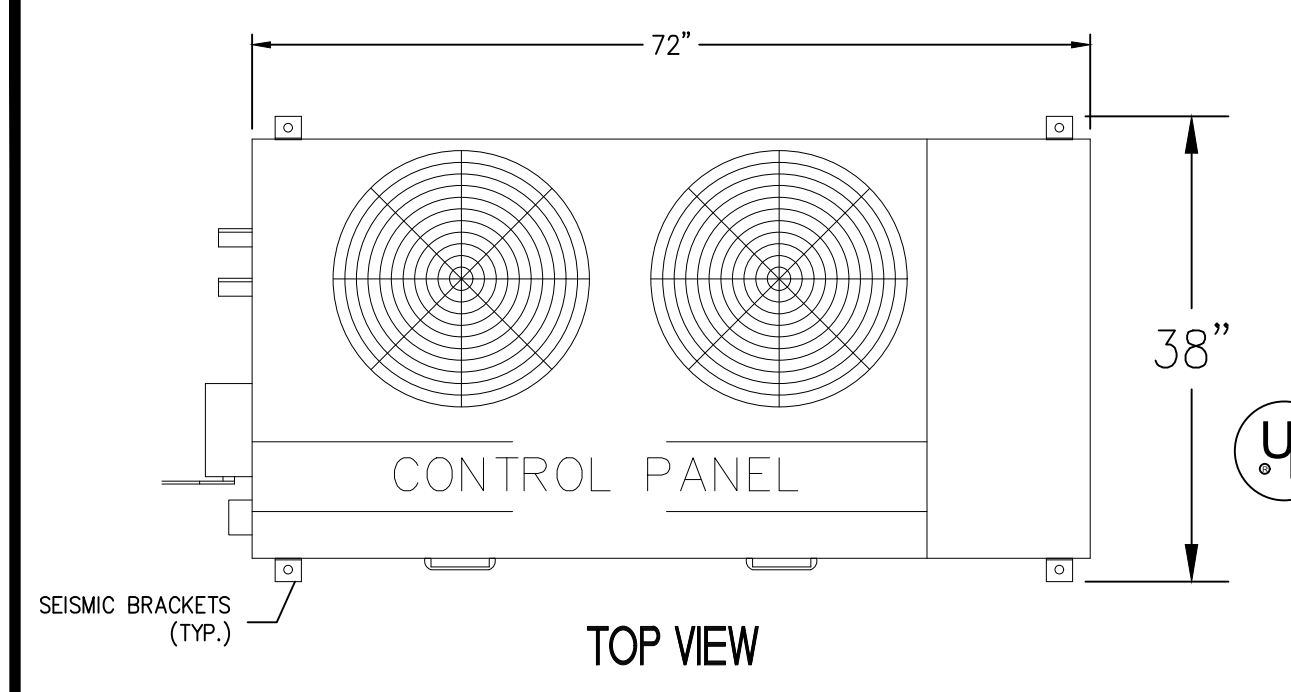


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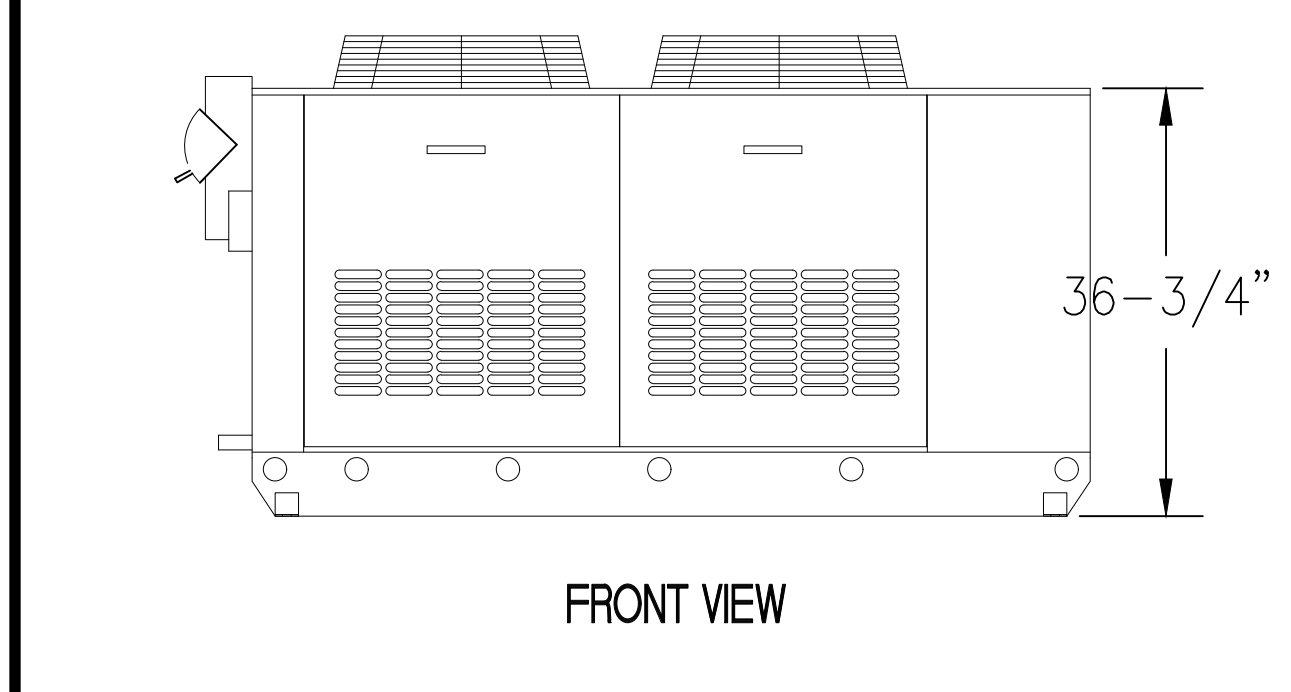
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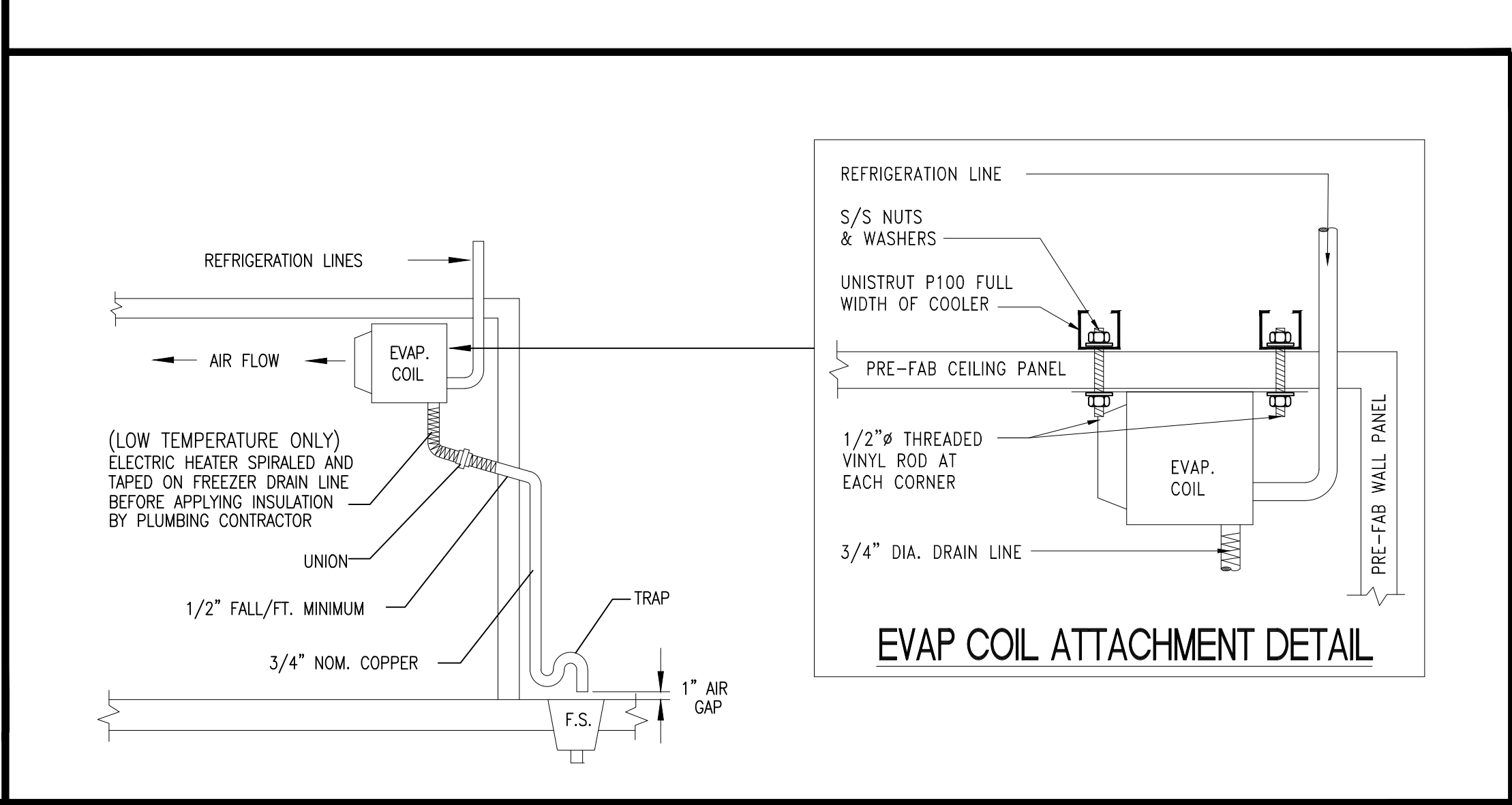


NOTES:
1. UNIT WEIGHT 581 LBS.
2. INSTALLATION CLEARANCE REQUIRES 3 FT. ON ALL SIDES.

REFRIGERANT LINE SEQUENCE FACING UNIT



COLDZONE ENGINEERING SUMMARY table with columns for SYSTEM, ITEM NUMBER, DESCRIPTION, FIXTURES, COMPRESSORS, EVAPORATOR COILS, and MINIMUM CIRCUMFERENCE. Includes a detailed list of components and their specifications.



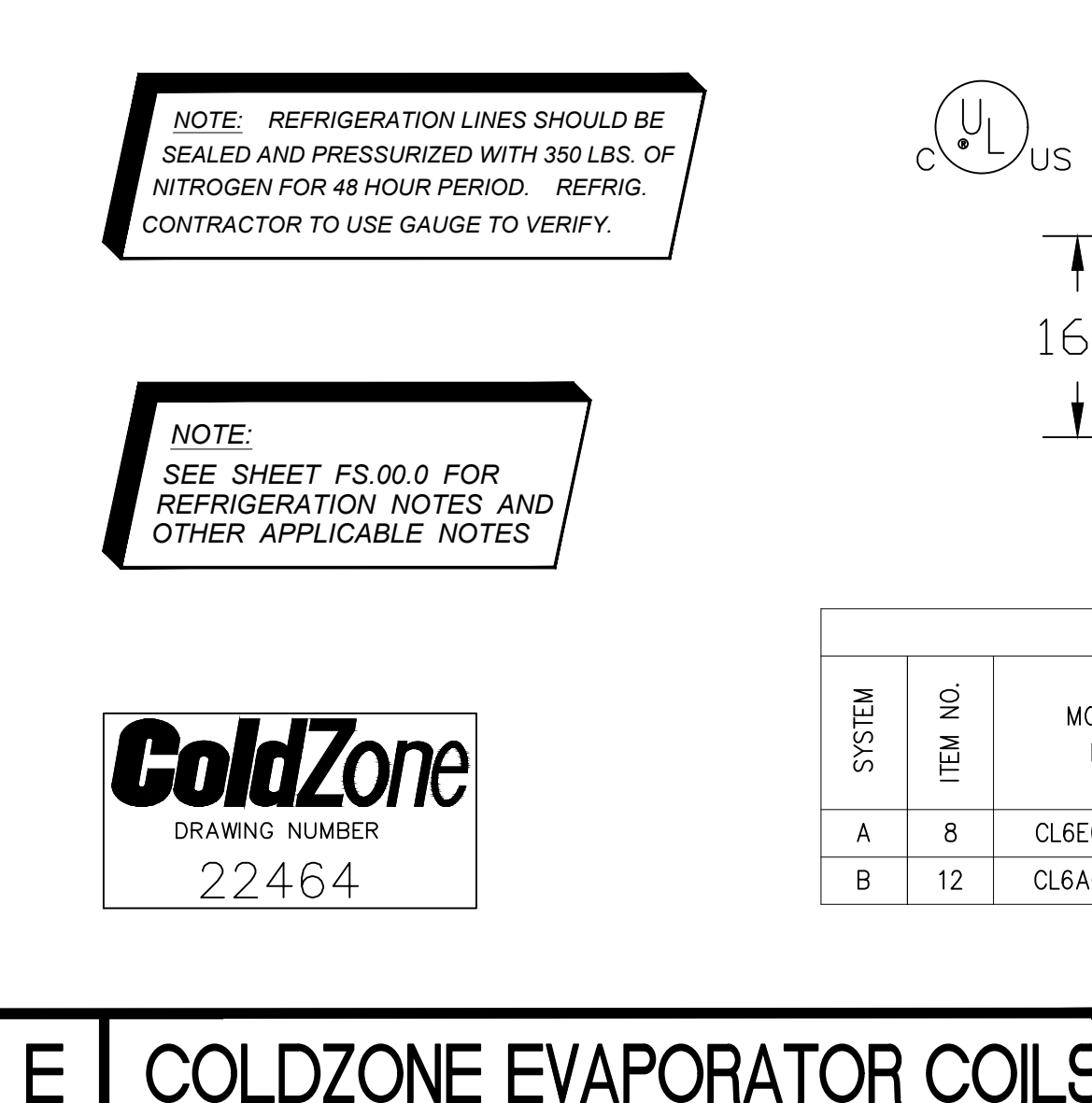
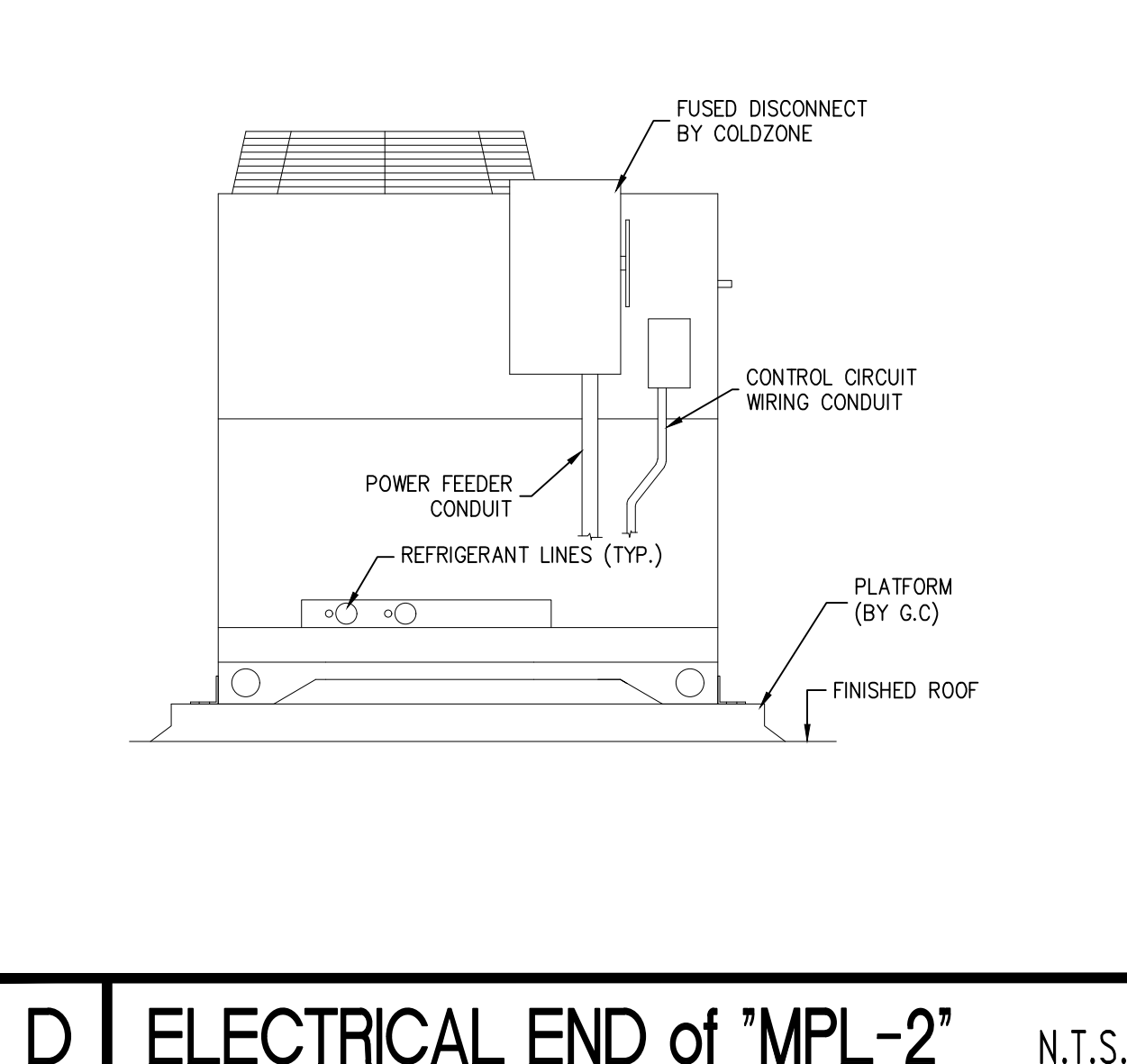
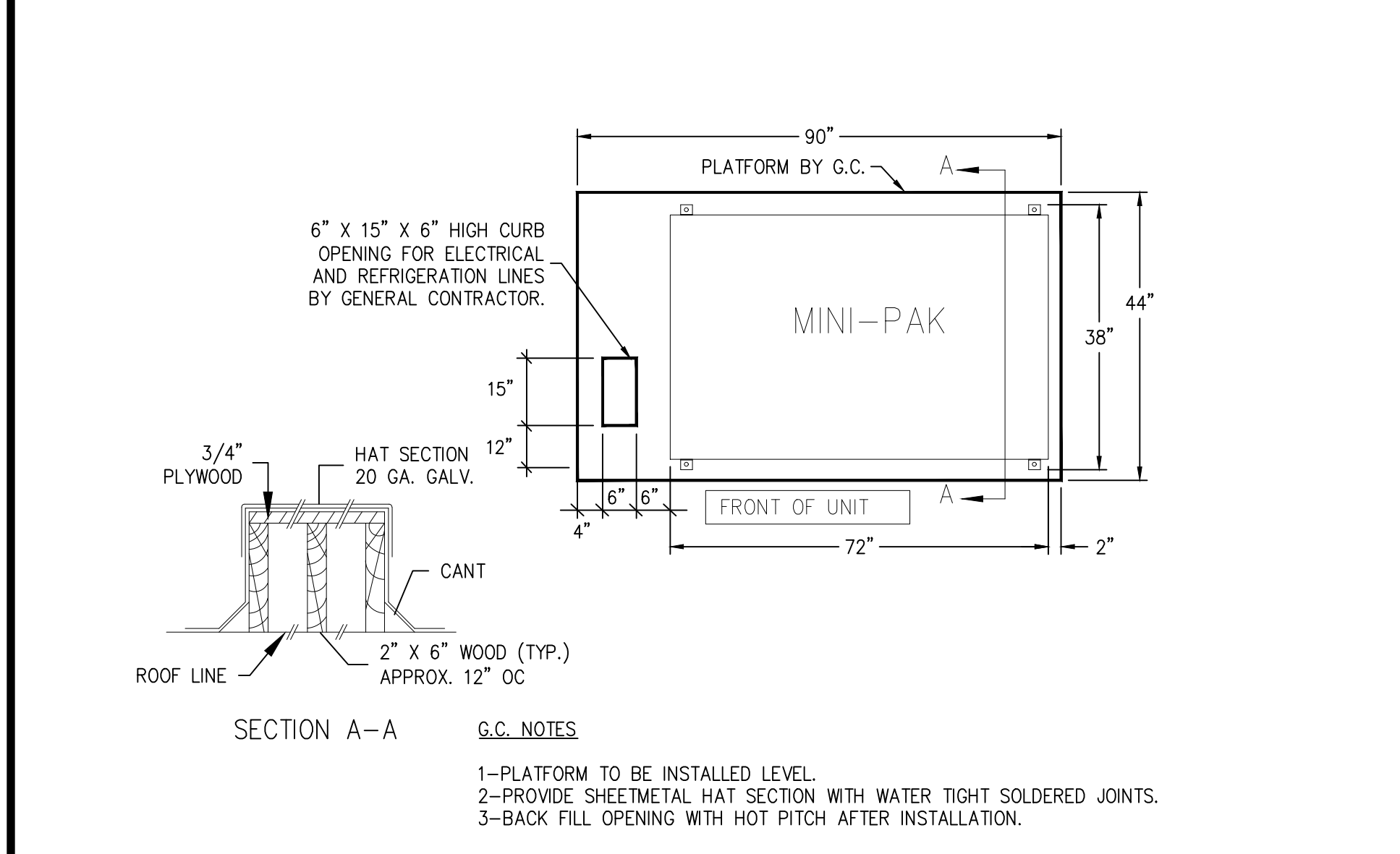
NOTE: CONDENSER SELECTED FOR FEET ELEVATION AND 95° AMBIENT TEMPERATURE. ALL COMPRESSOR CIRCUITS INDIVIDUALLY WIRED WITH SEALED LIQUID AND SUCTION FILTERS, CRANKCASE HEATERS, AND HEAD PRESSURE CONTROL VALVES...

NOTES: *KE2 OEM EVAP CONTROL PANEL PN 08219675 SHIPPED LOOSE FOR SYSTEM C. EVAP CE EVAP SUPPLIED WITH EEV & S/NOD FACTORY MOUNTED. EPR VALVE FOR SYSTEM C SHIPPED LOOSE...

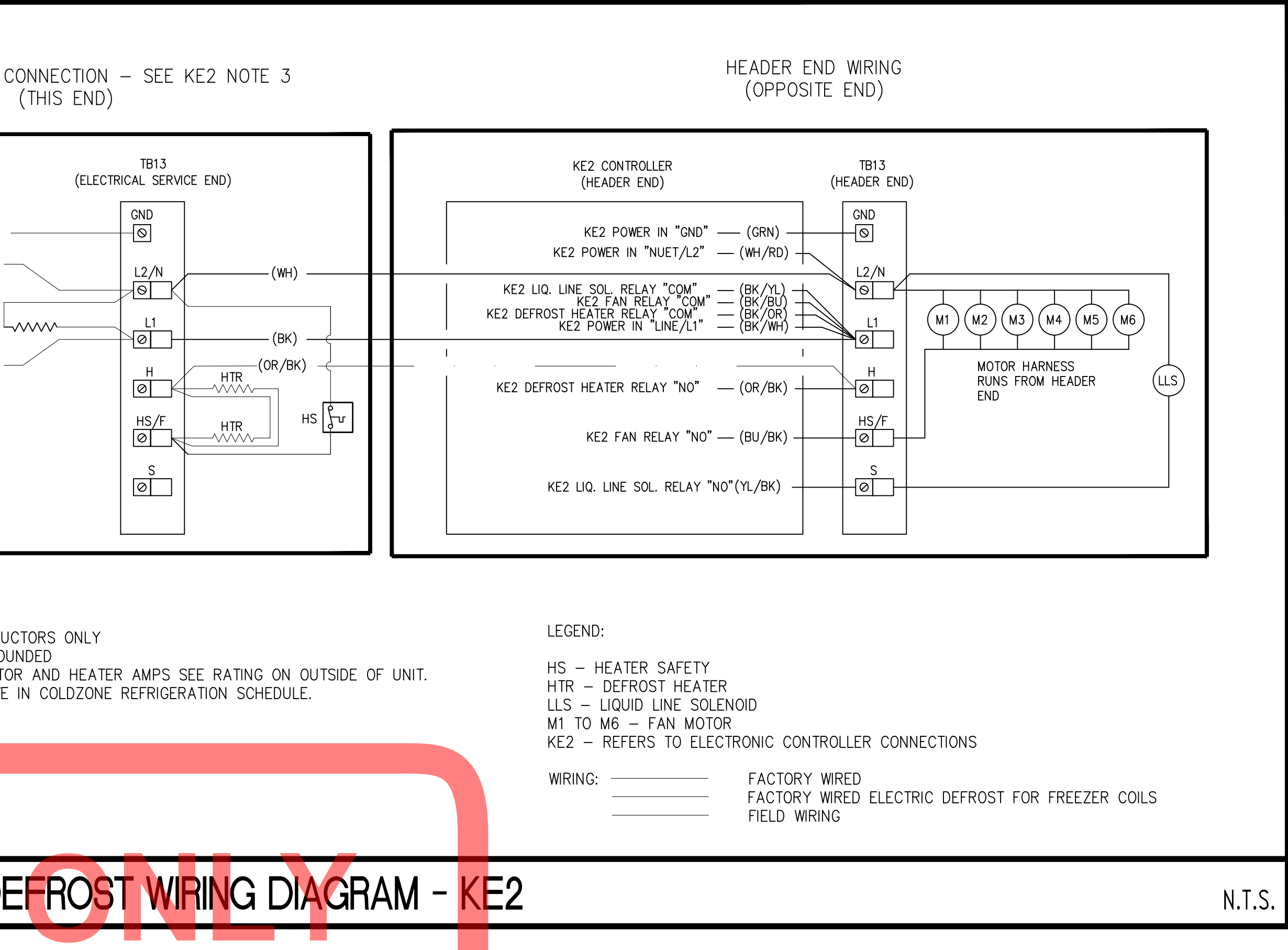
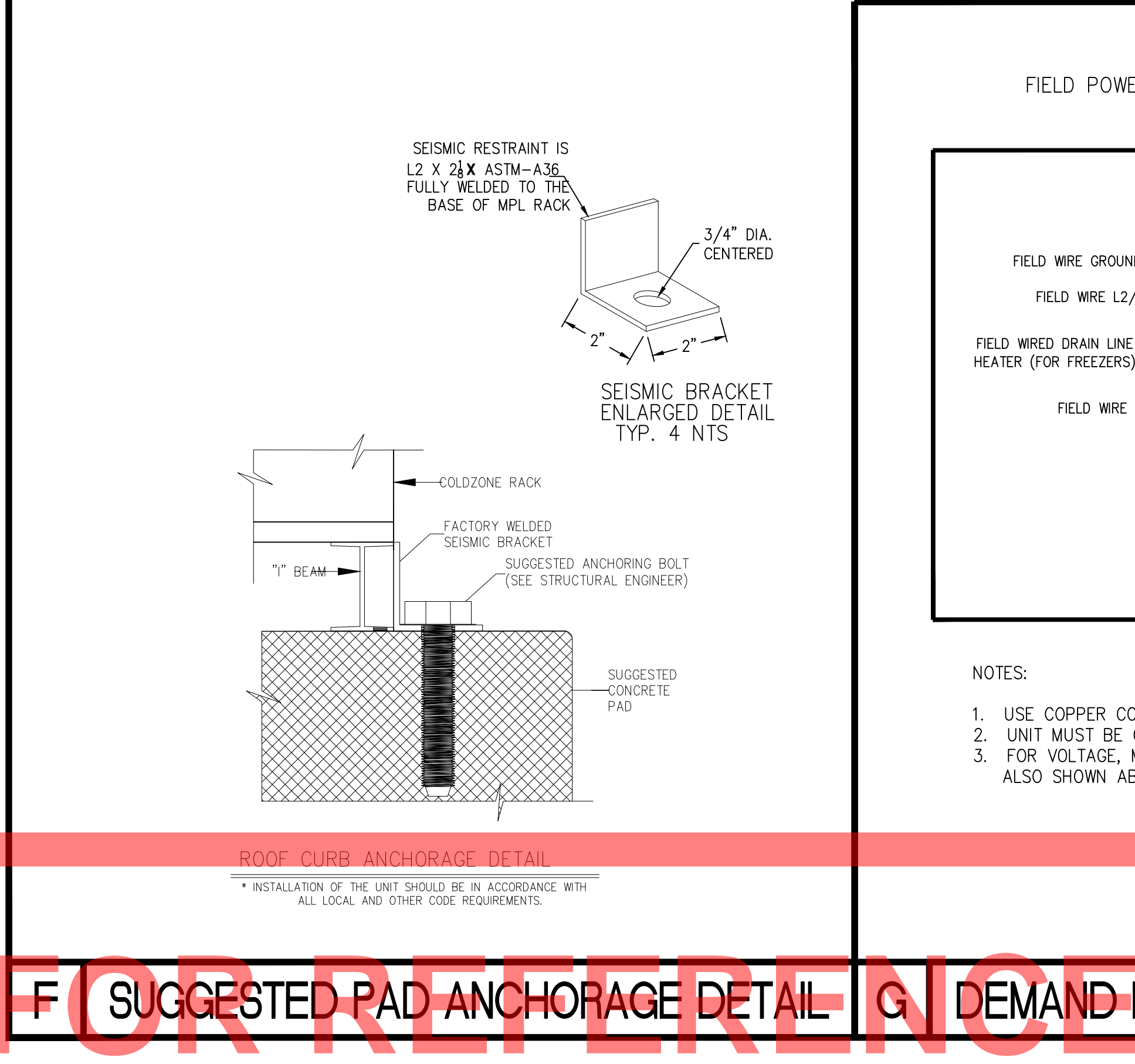
A ITEM #02 - REFRIGERATION RACK "MPL-2" OUTLINE

B DRAIN LINE + EVAP. COIL ATTACHMENT DETAIL

C COLDZONE ENGINEERING SUMMARY



EVAPORATOR COIL(S) INCHES table with columns for SYSTEM, ITEM NO., MODEL NO., QTY., # OF FANS, A, W, WEIGHT (LBS. EACH), and EEV / NOZZLE. Includes a note about the refrigeration package and a list of general contractor notes.



REFRIGERATION RACK NOTES. THE REFRIGERATION PACKAGE SHALL BE A PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT. TRADE NAME "MINI-PAK" AS MANUFACTURED BY COLDZONE, A DIVISION OF HEAT TRANSFER PRODUCTS GROUP, 8101 ANAHEIM, CA 92808. PHONE: (714) 532-4441; FAX: (714) 532-8503. CONTRACTOR SHALL FURNISH AND INSTALL WHERE SHOWN ON PLANS, (1) COLDZONE ULL APPROVED "MINI-PAK".

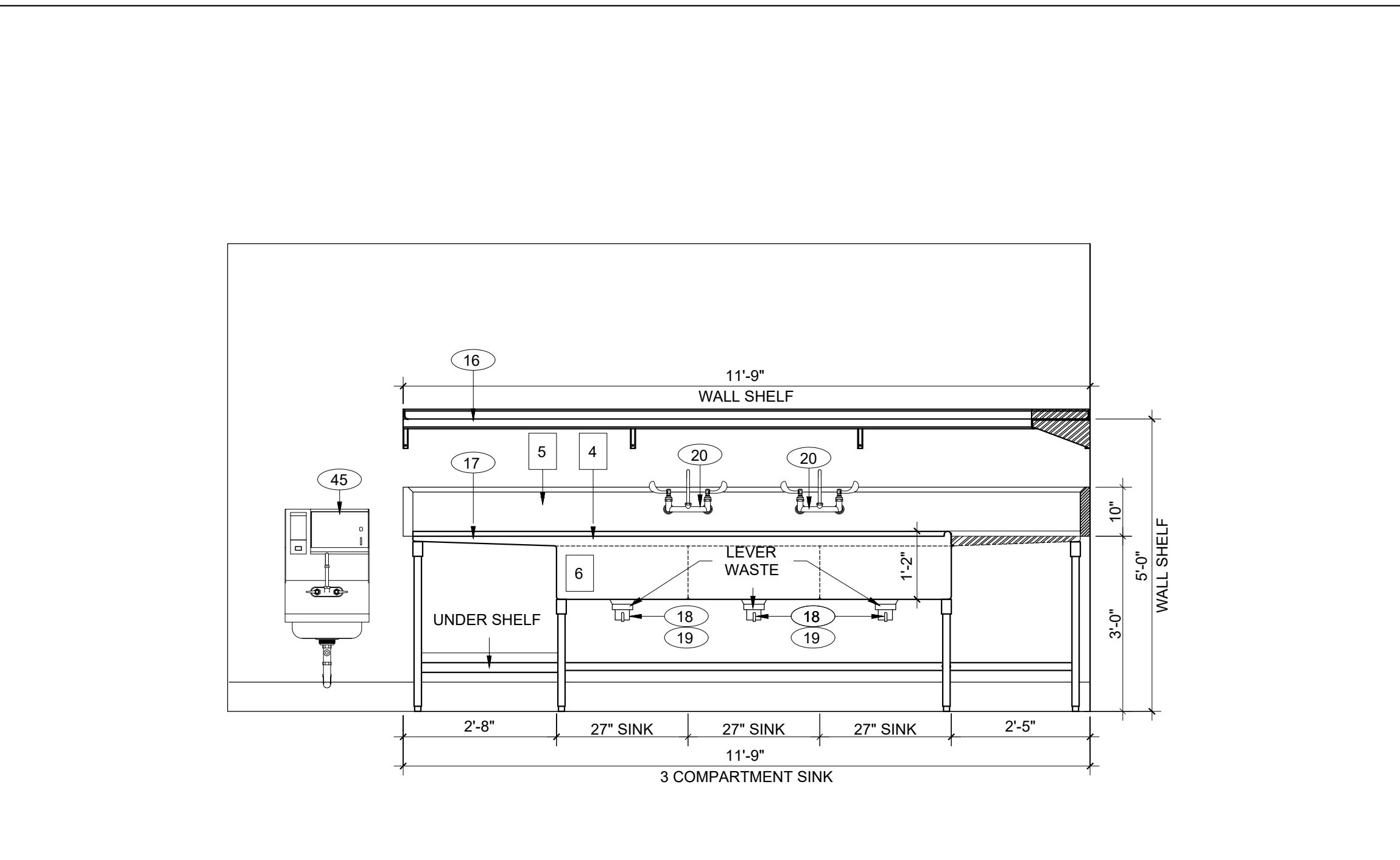
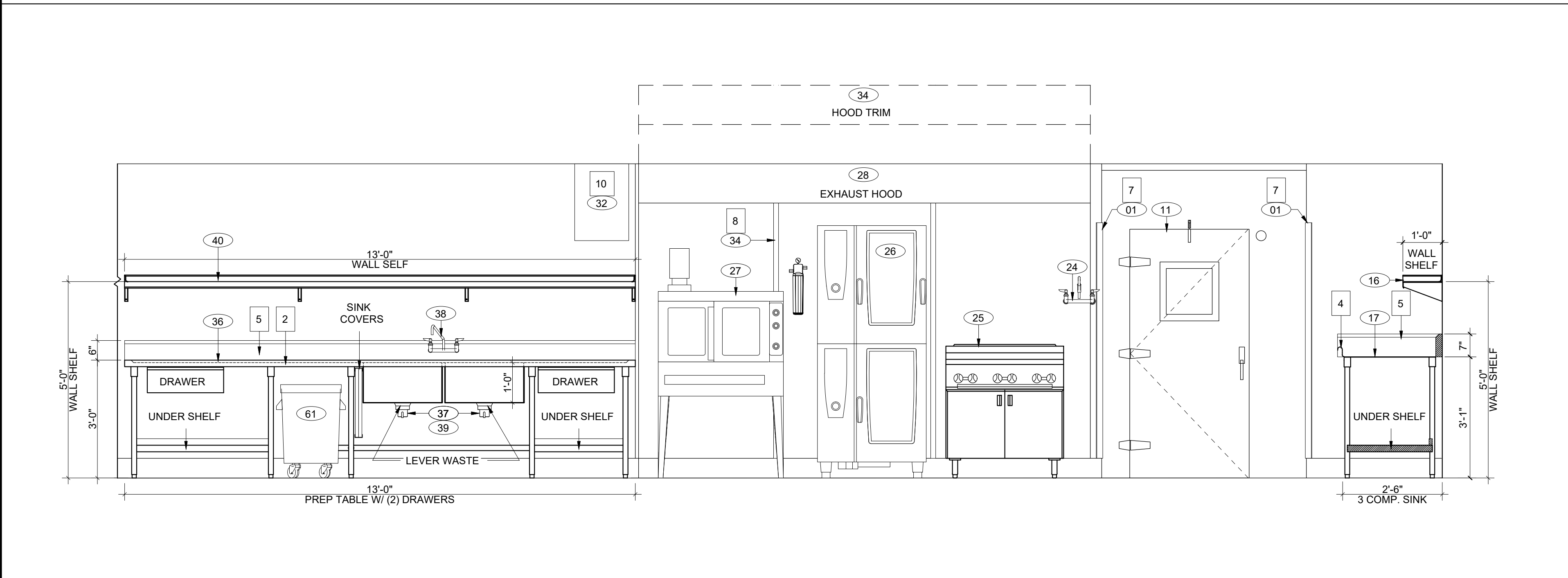
PROJECT No.: 1-34-32
7/3/2024 3:26 PM
REVISIONS table with columns for DATE, DESCRIPTION, REVISION No., and DATE.

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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 484-4664 / 5753 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92008 (760) 438-5999

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FOODSERVICE EQUIP. REFRIGERATION RACK
JOYCE ELEMENTARY SCHOOL
6050 WATT AVE, NORTH HIGHLANDS, CA 95660
TWIN RIVERS UNIFIED SCHOOL DISTRICT
FS.06.1

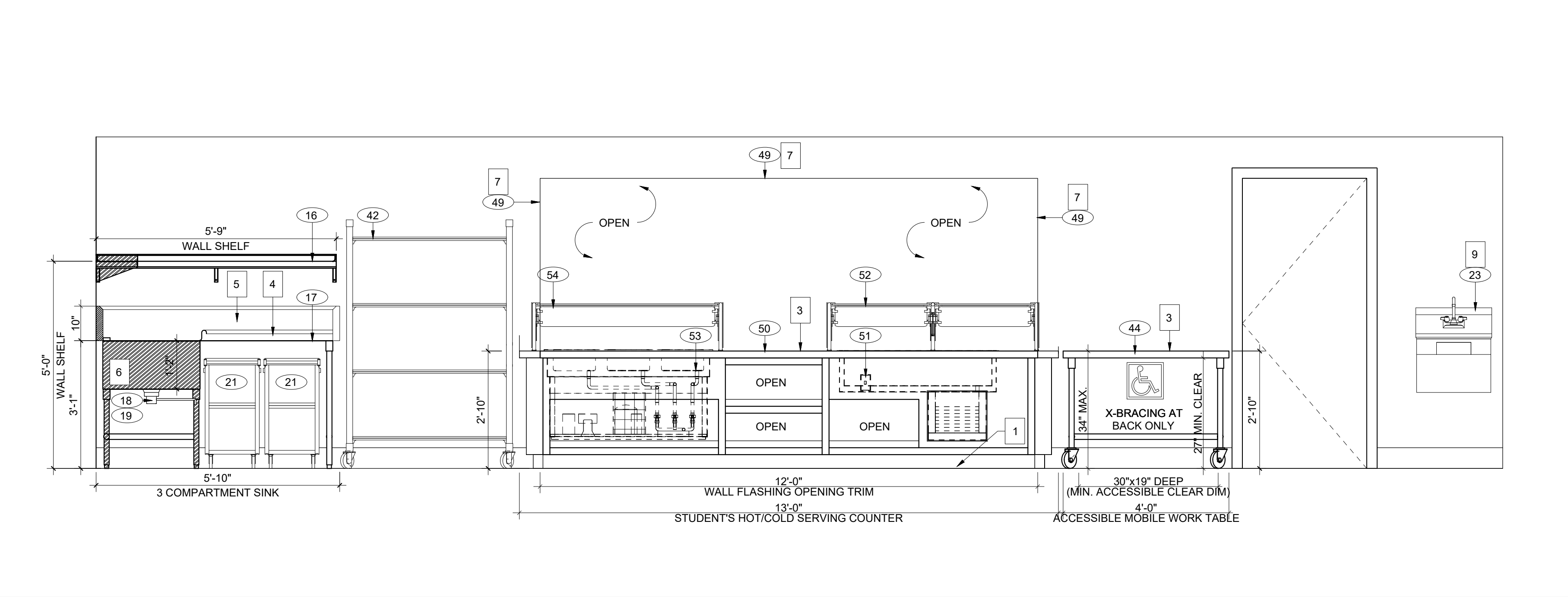
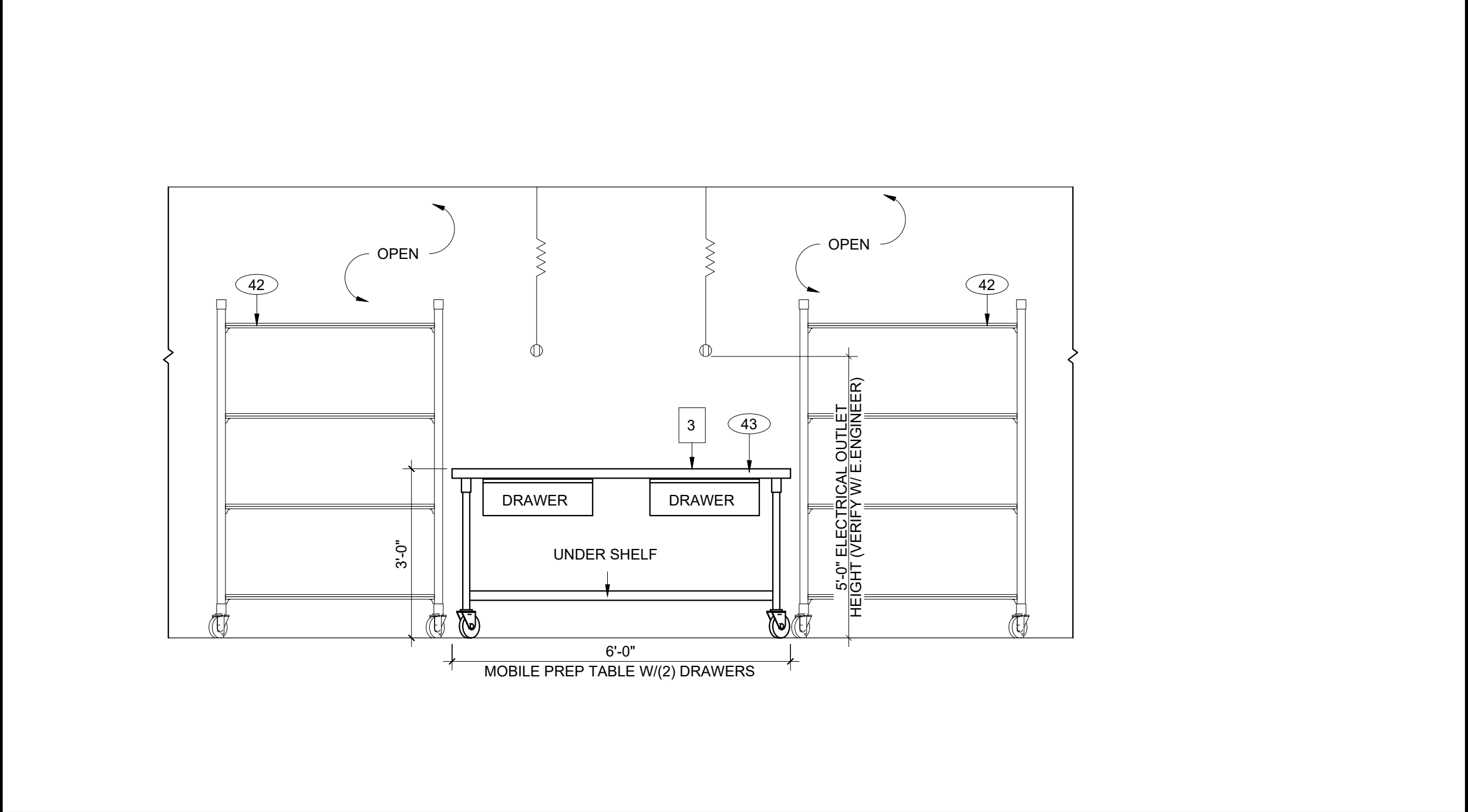
- 1 SEE CURB DETAIL A/FS.05.0
- 2 SEE MARINE EDGE A-2/FS.06.0
- 3 SEE DOWN 90° EDGE A-1/FS.06.0
- 4 SEE RAISED ROLLED EDGE A-4/FS.06.0
- 5 SEE SINK SPLASH DETAIL A-9/FS.06.0
- 6 SEE POT SINK DETAIL B/FS.03.0
- 7 SEE CORNER GUARD/END D/FS.05.0
- 8 SEE S/S WALL FLASHING DETAIL E/FS.05.0
- 9 SEE ACCESSIBLE SINK DETAIL A/FS.03.0
- 10 SEE FIRE SUPPRESSION DETAIL B/FS.04.0
- 11 NOT IN USE
- 01 ITEM NUMBER (SEE EQUIPMENT SCHEDULE FS.01.0)

KEYNOTES



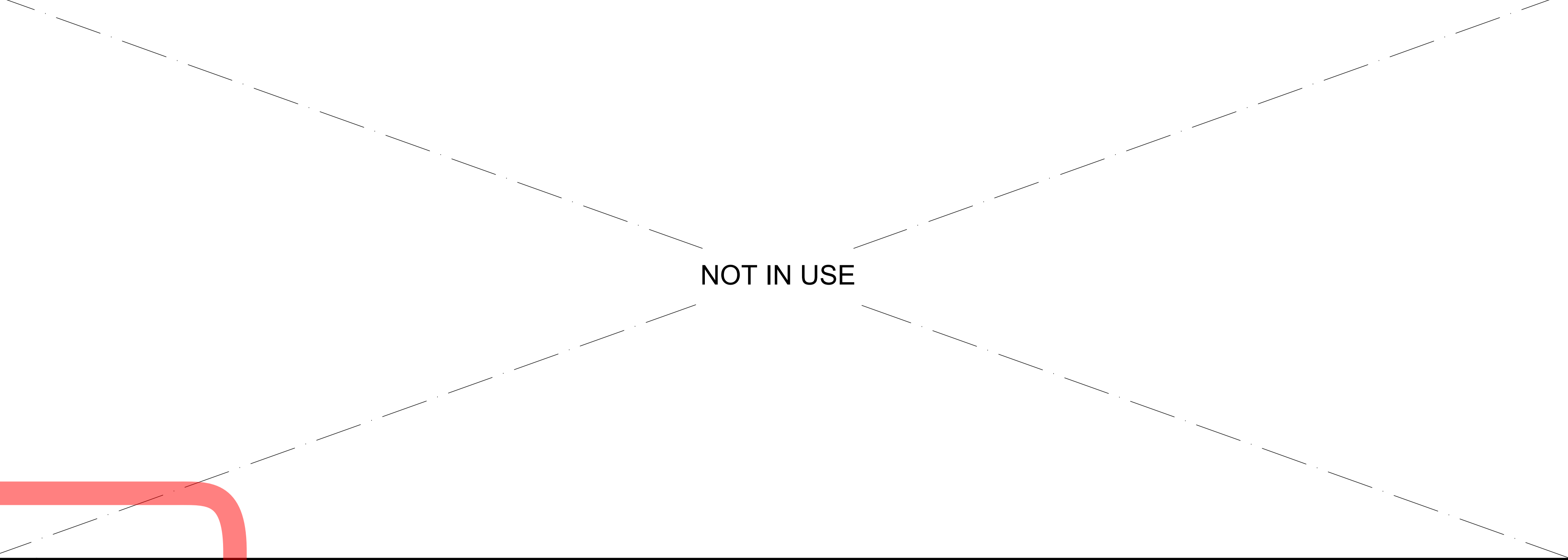
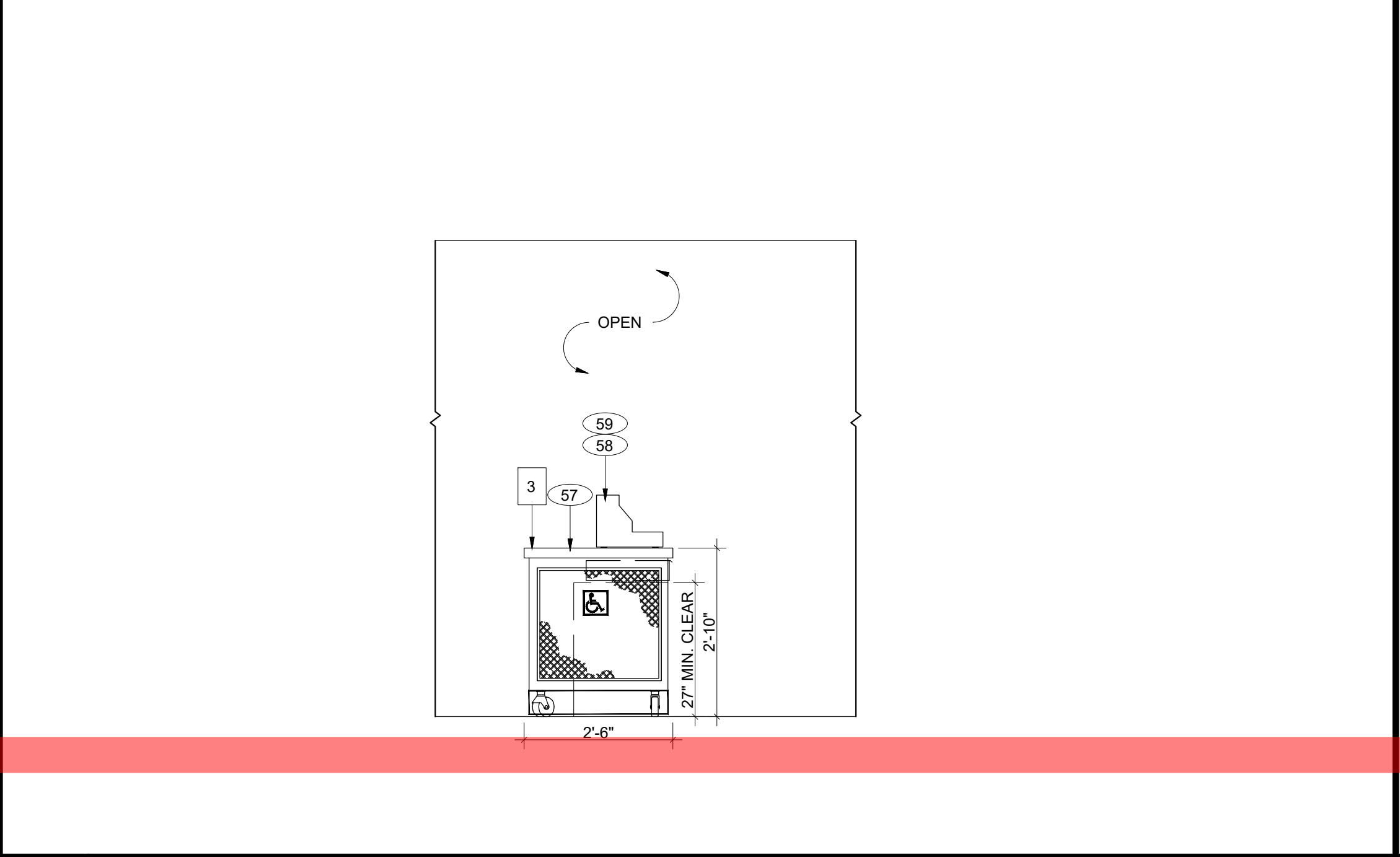
1 ELEVATION - 2 PREP. SINK & COOK LINE 1/2" = 1'-0"

2 ELEVATION - 3-COMPARTMENT SINK 1/2" = 1'-0"



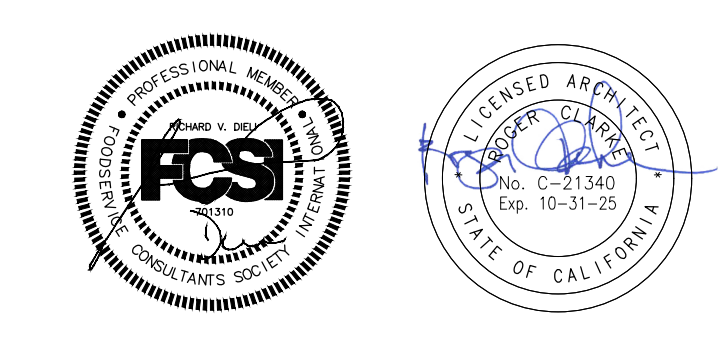
3 ELEVATION - MOBILE WORK TABLE & MOBILE DRYING RACKS 1/2" = 1'-0"

4 ELEVATION - SERVING COUNTER & MOBILE ADA WORK TABLE 1/2" = 1'-0"



5 ELEVATION - POS STATION 1/2" = 1'-0"

6 NOT IN USE 1/2" = 1'-0"



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 Food Service Design Consultants
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 1530 South Lewis Street, Anaheim, CA 92805
 Phone: 714.508.1880

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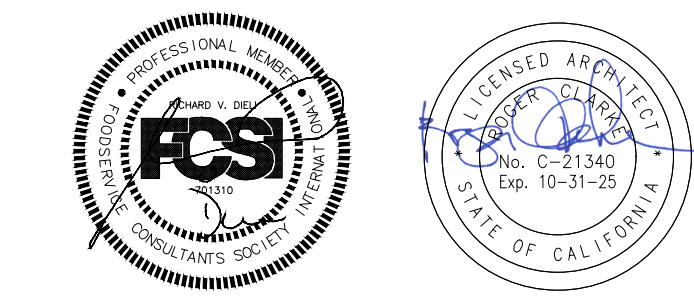
PROJECT No. : 1-34-32
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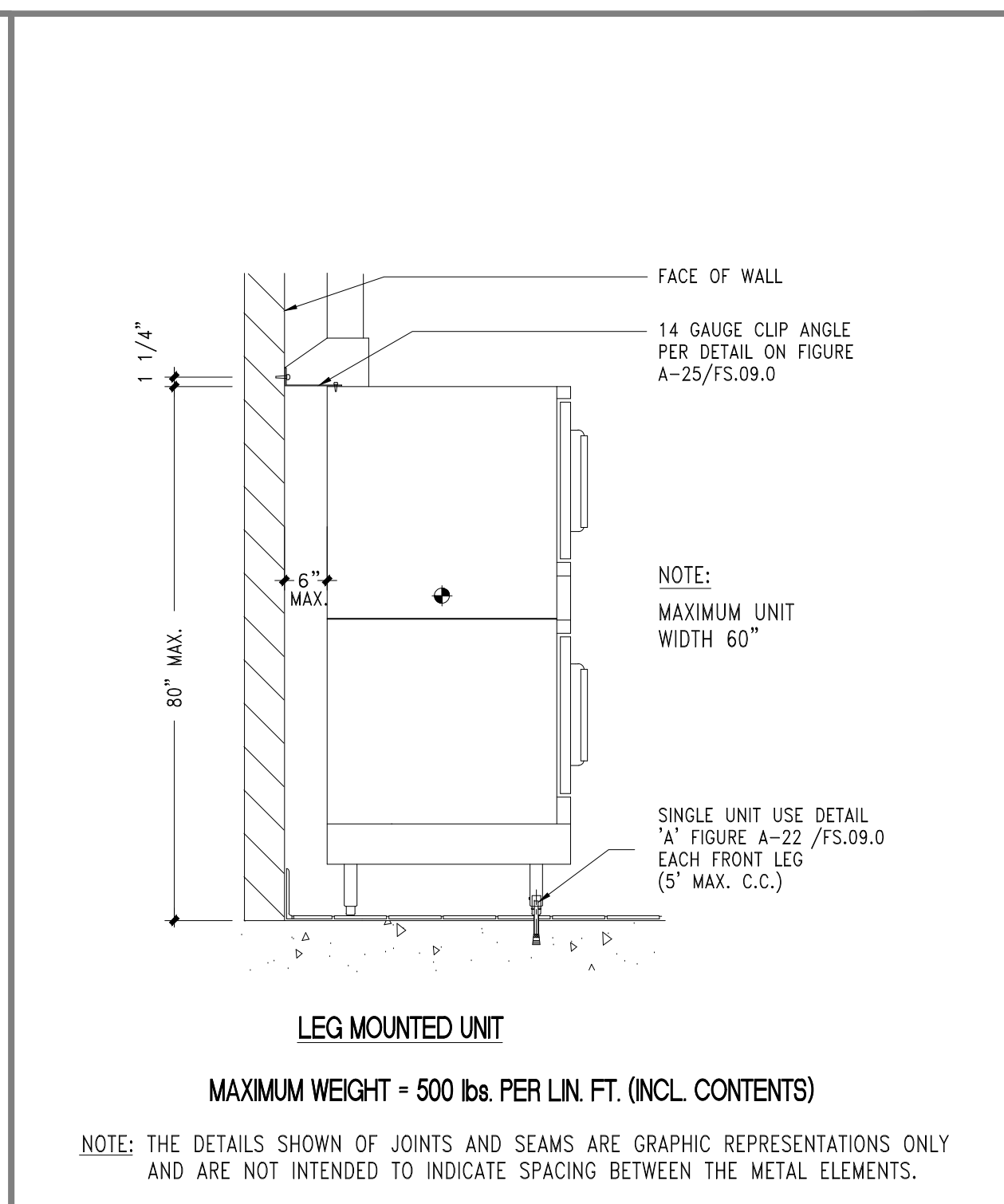
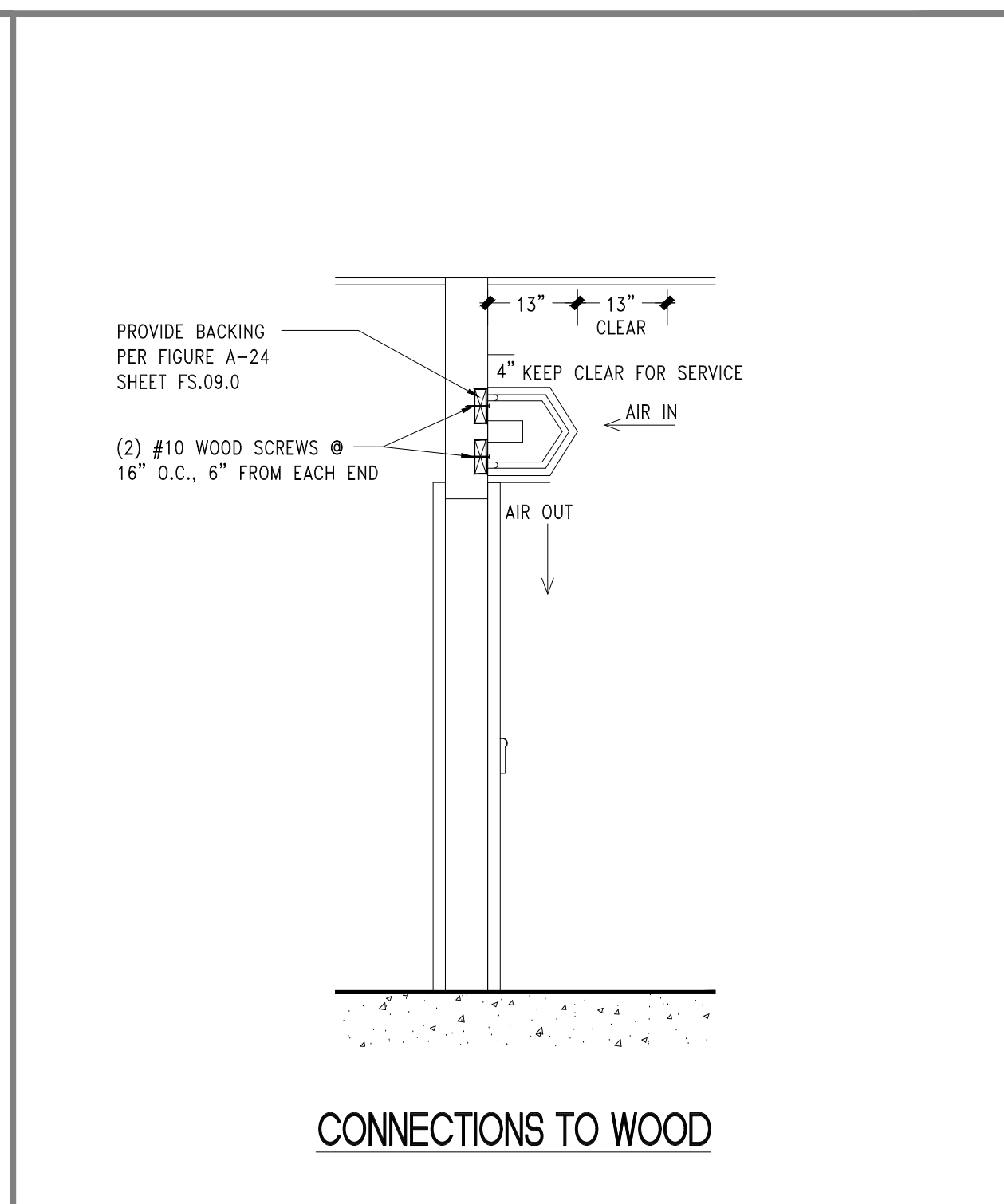
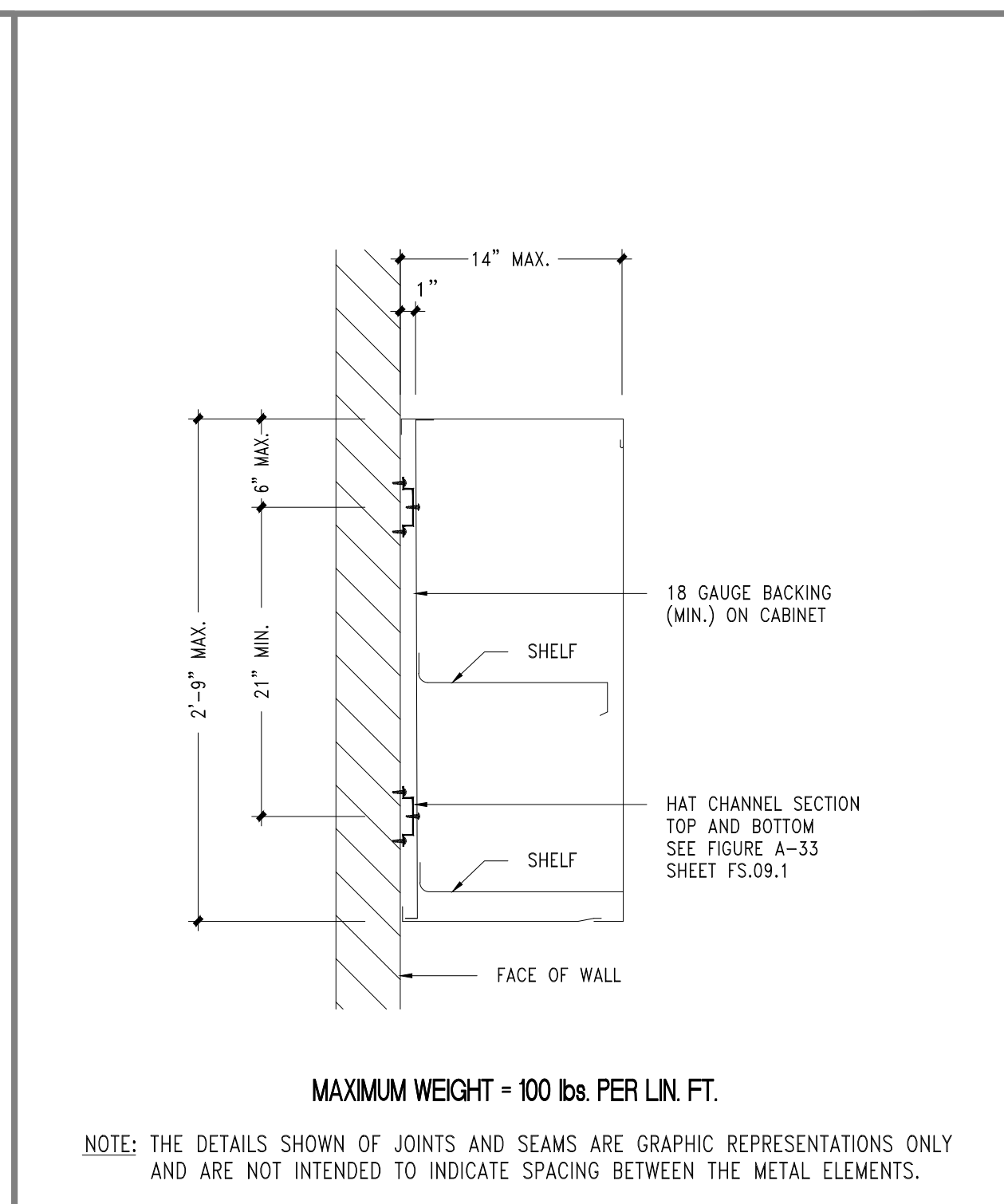
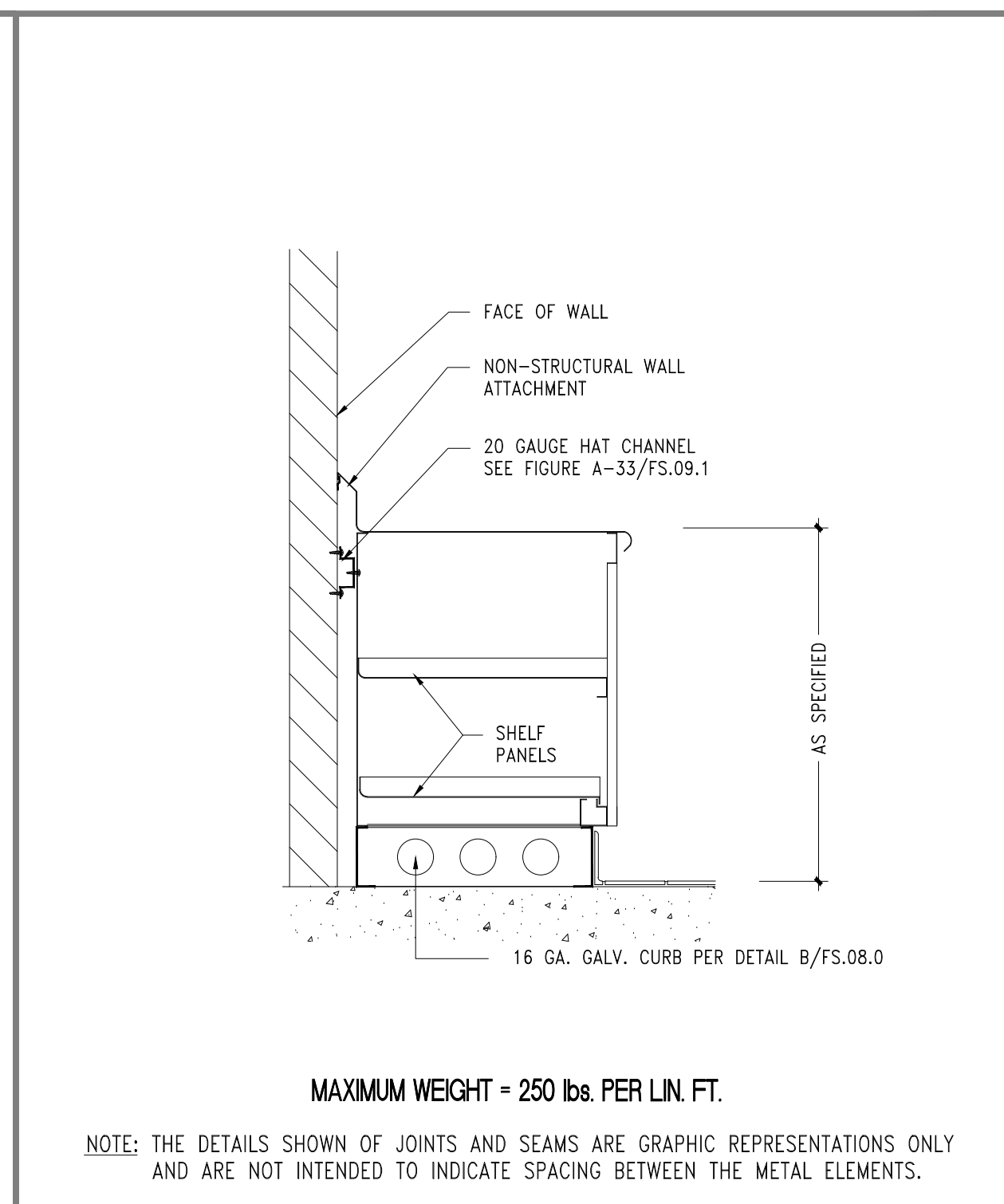
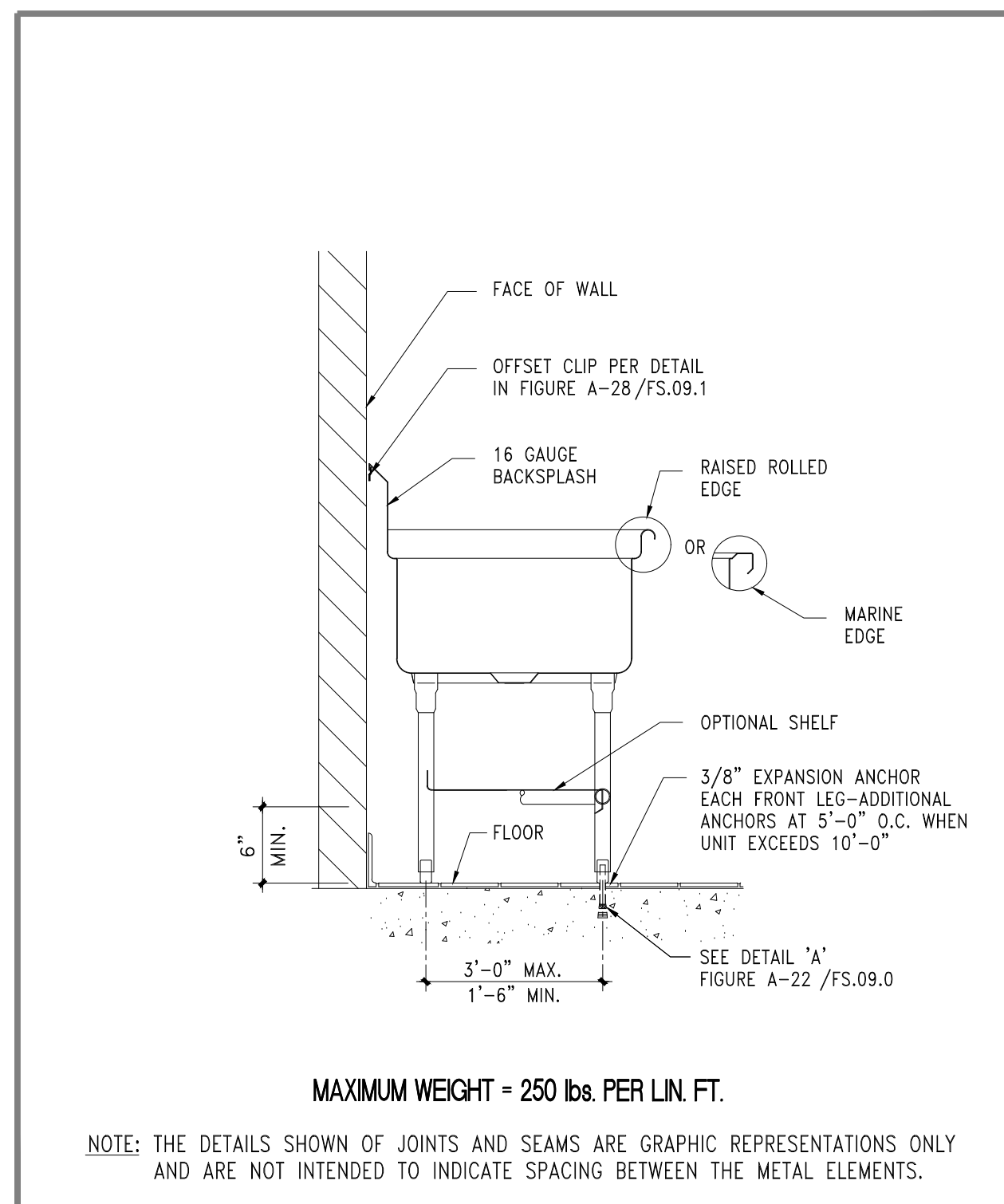


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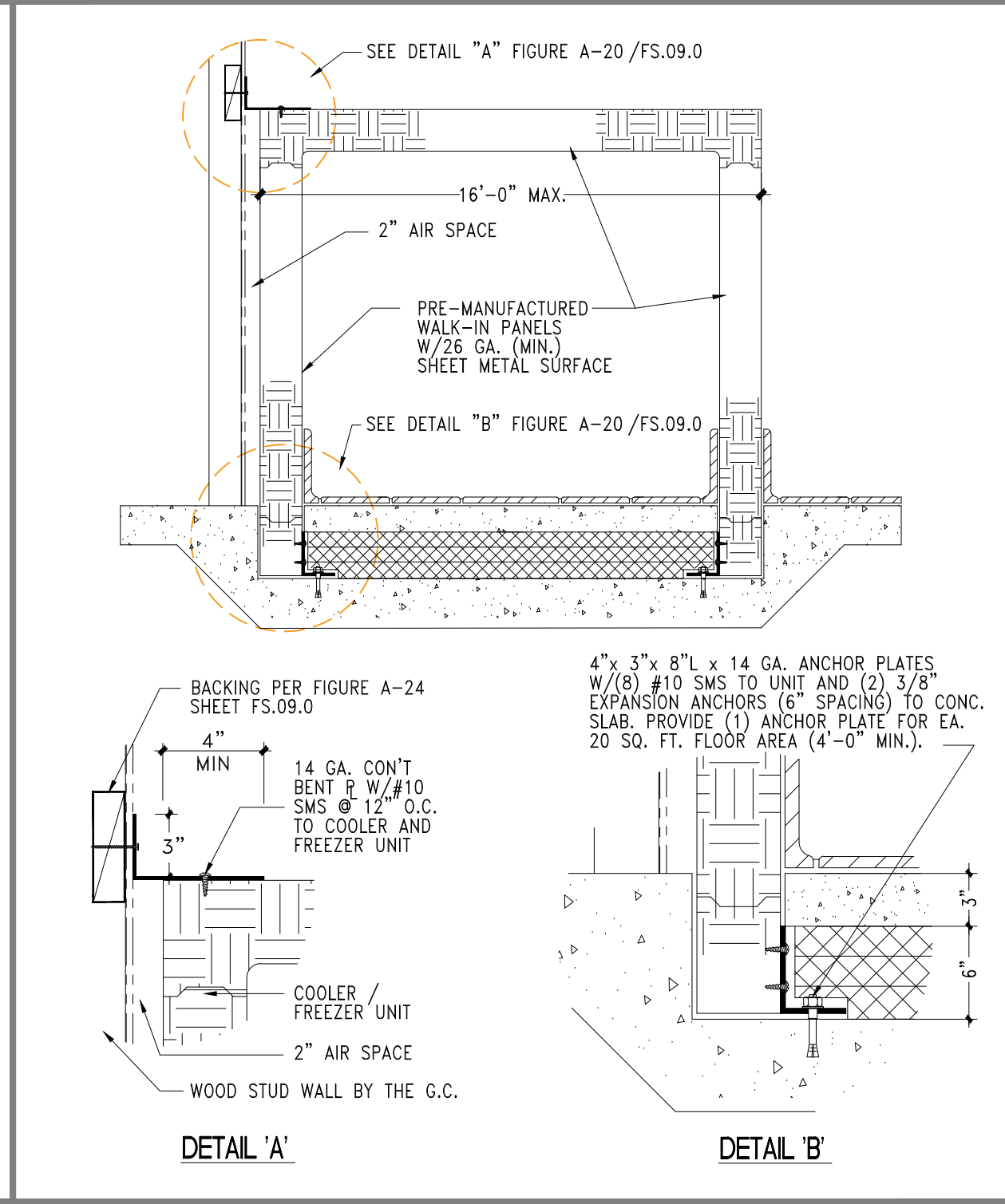
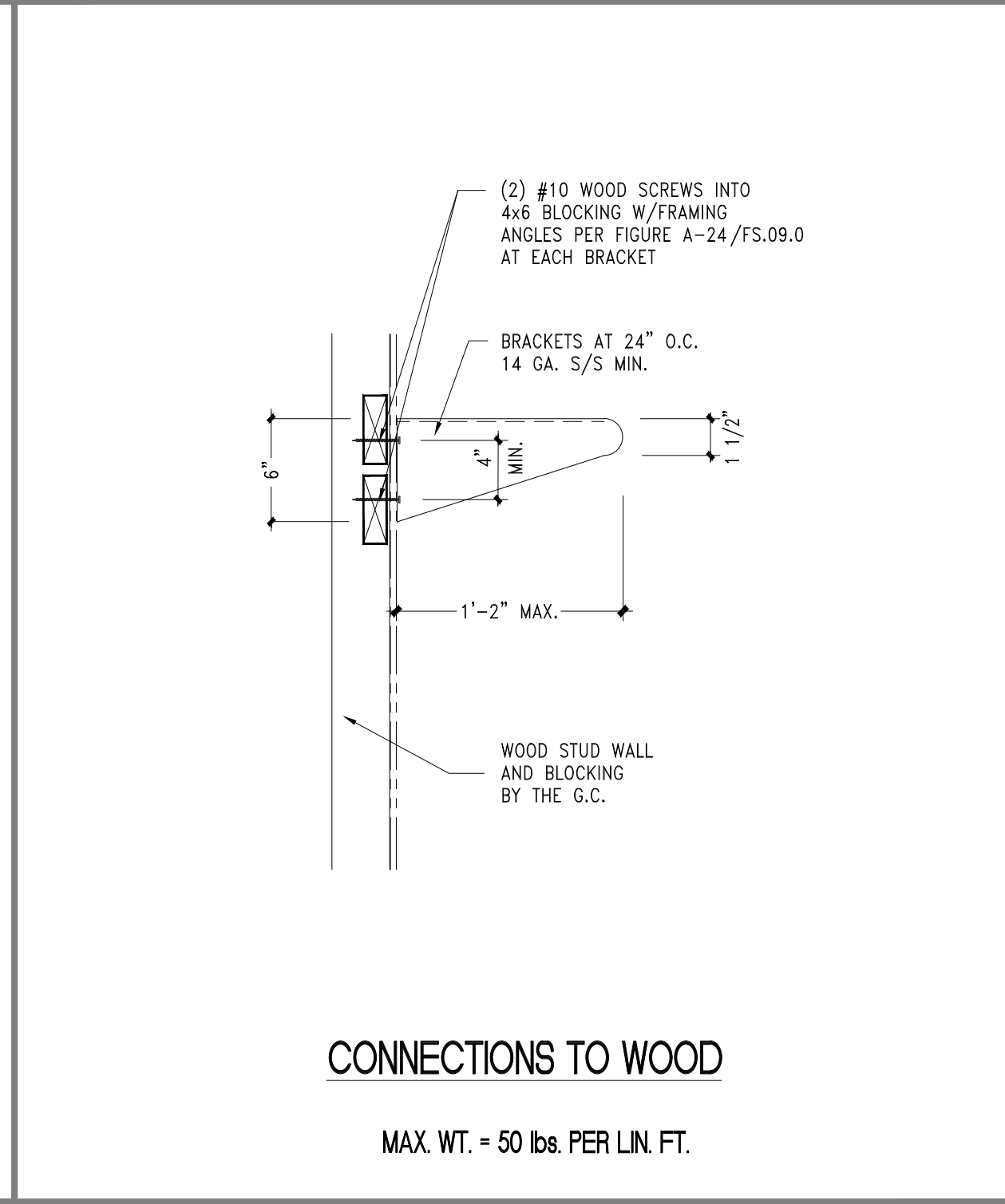
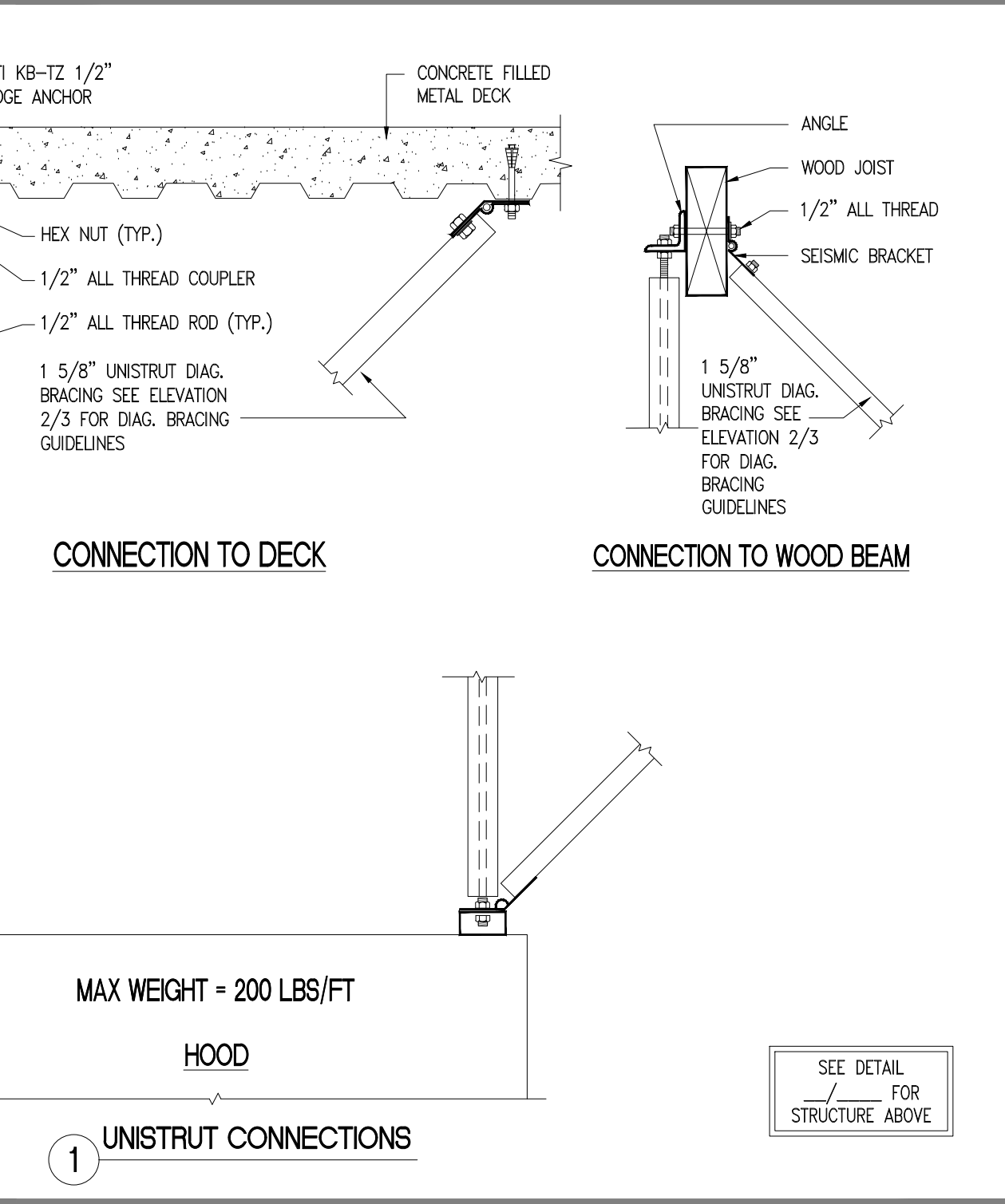
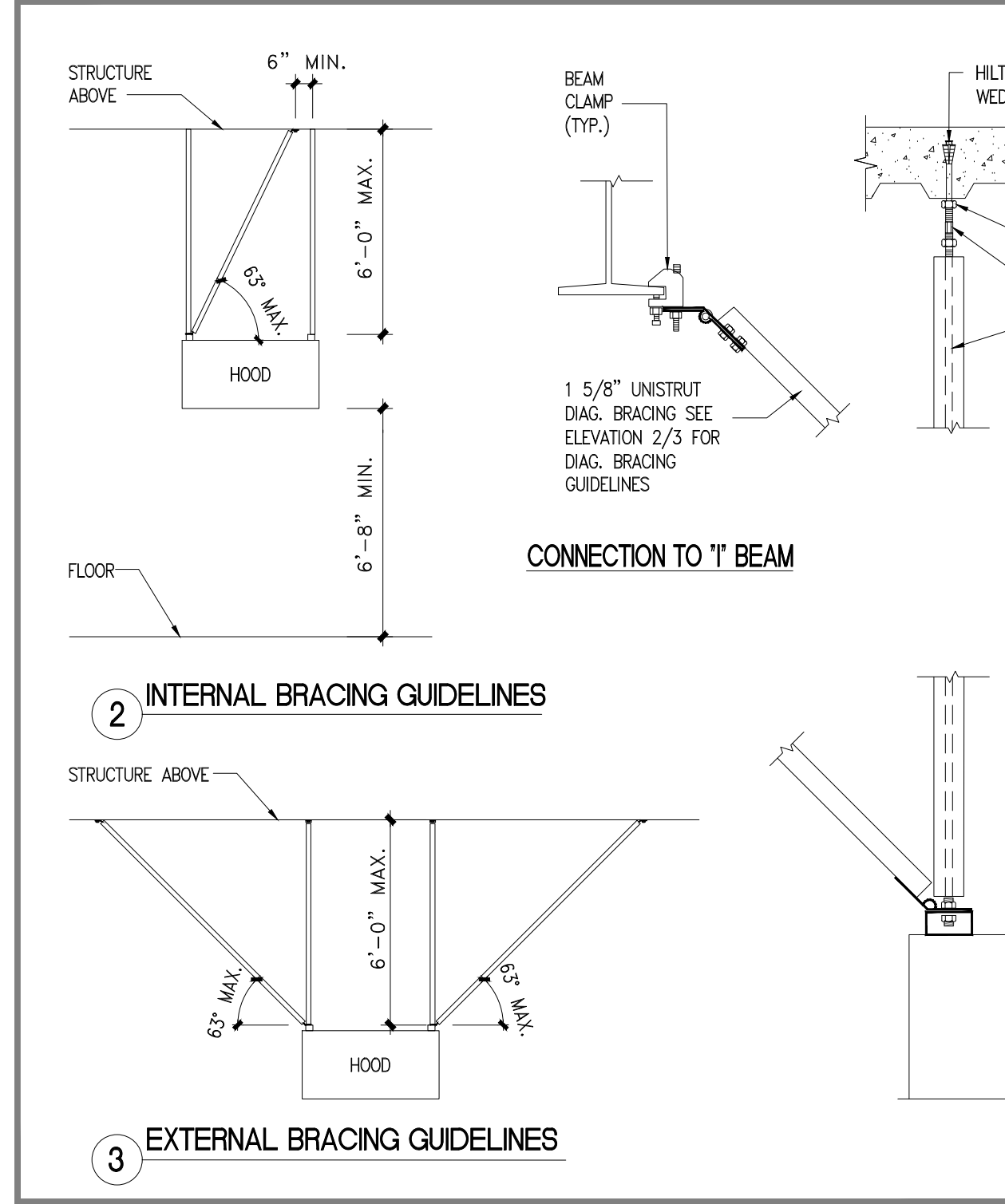
A-2 WALL ATTACHED SINK, TABLE w/WALL CLIP NTS

A-4 ENCLOSED CABINET NTS

A-6 WALL MOUNTED CABINET NTS

A-6b WALL MOUNTED AIR CURTAIN NTS

A-11 FLOOR MOUNTED APPLIANCE AGAINST WALL NTS

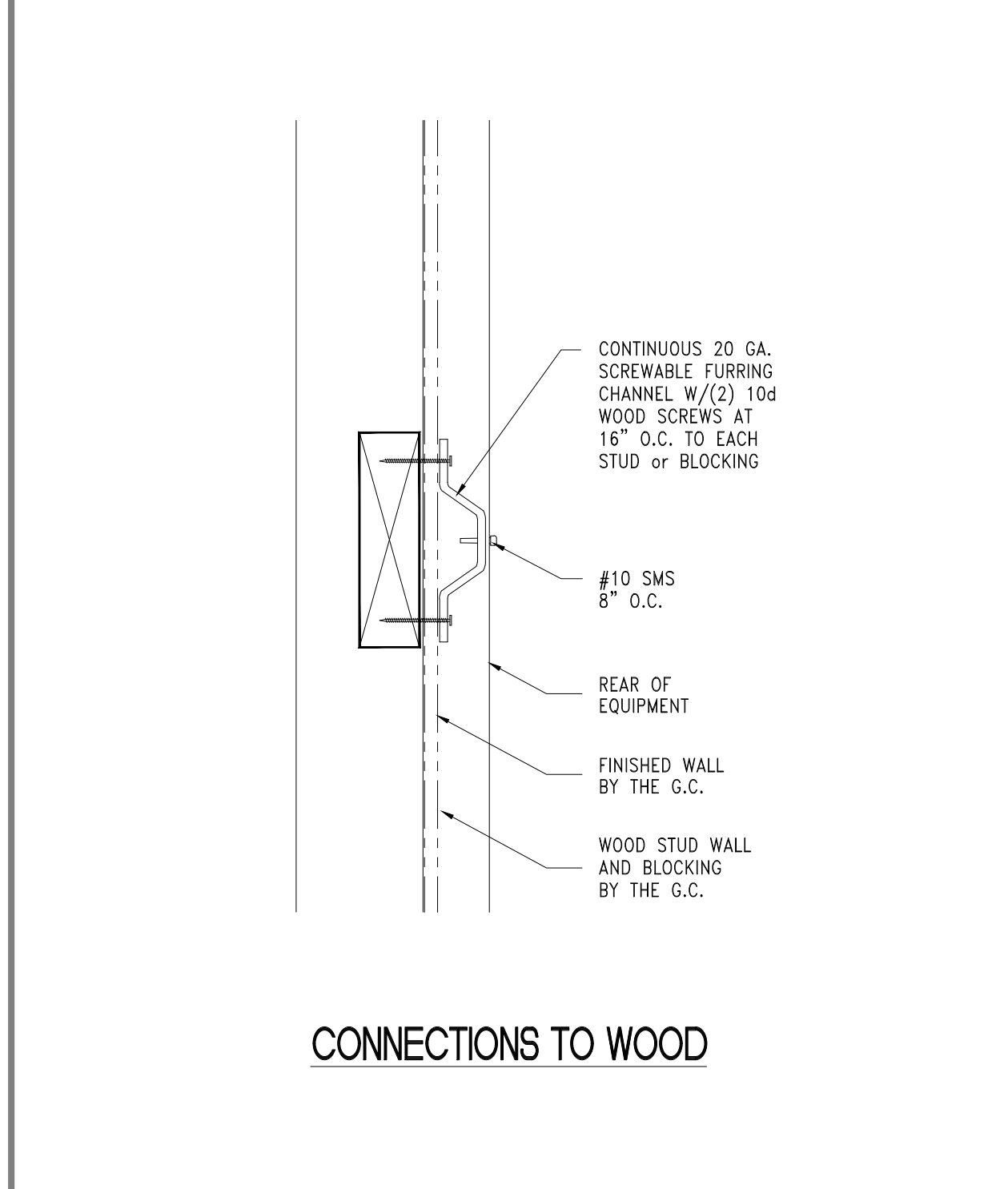
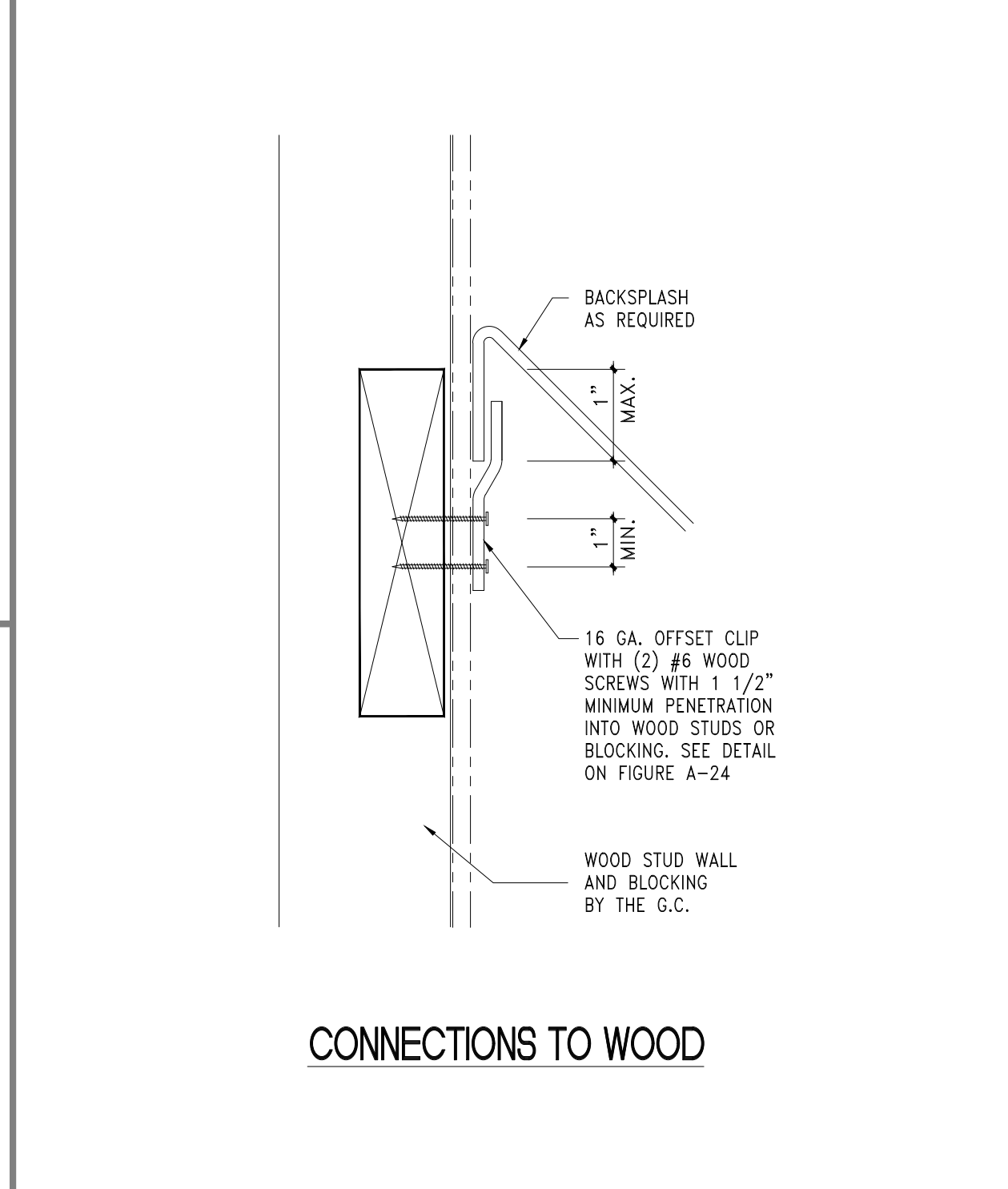
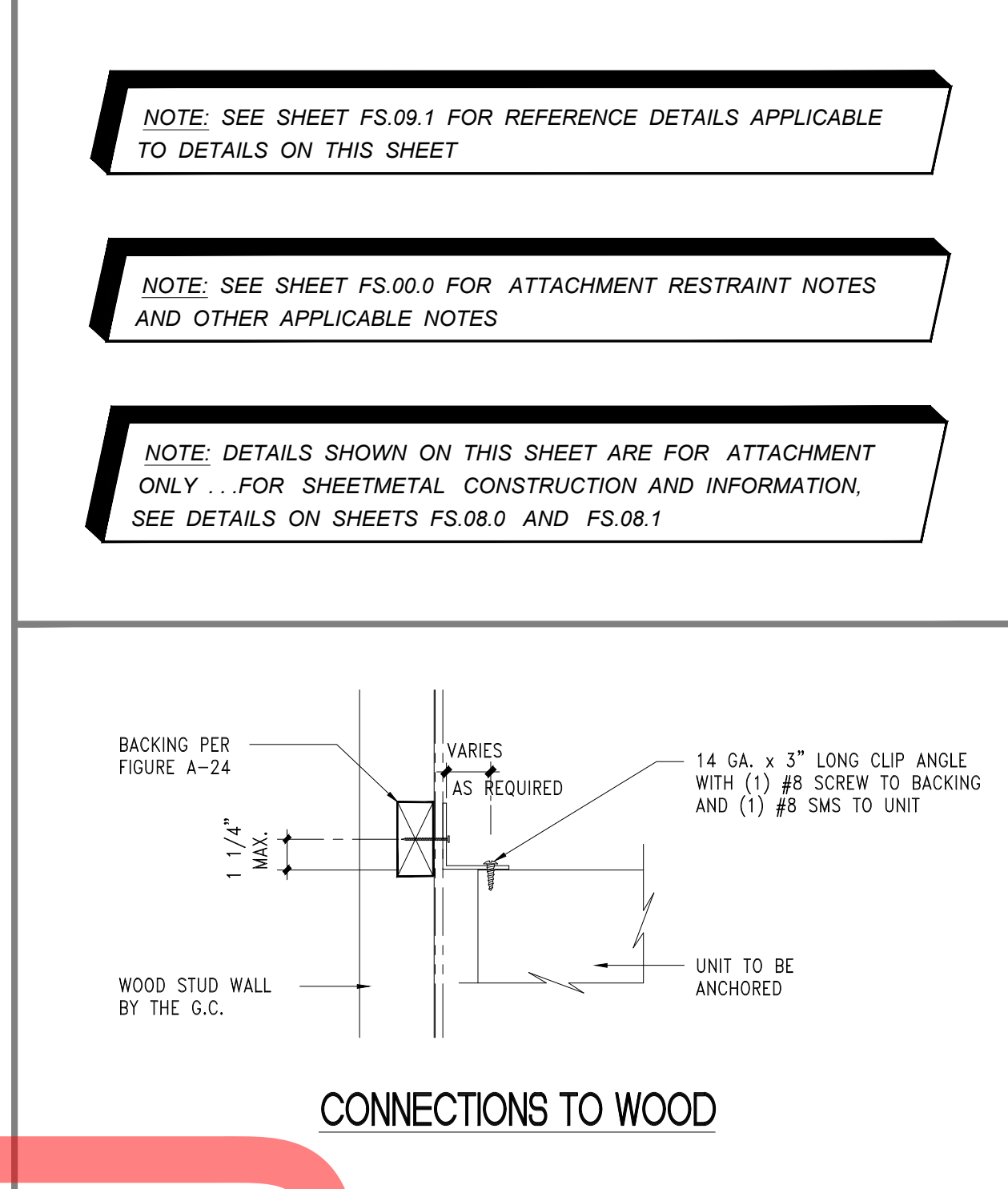
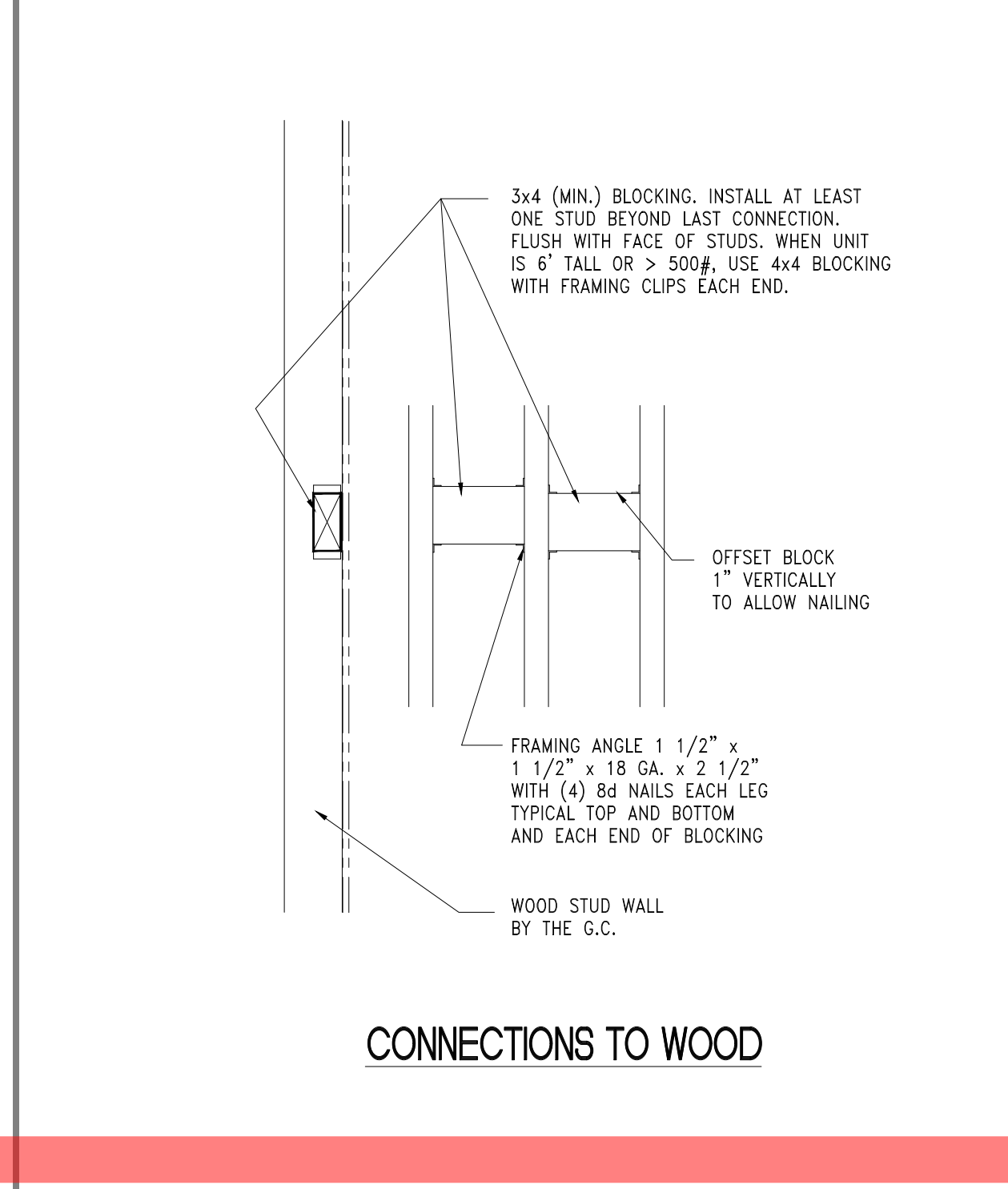
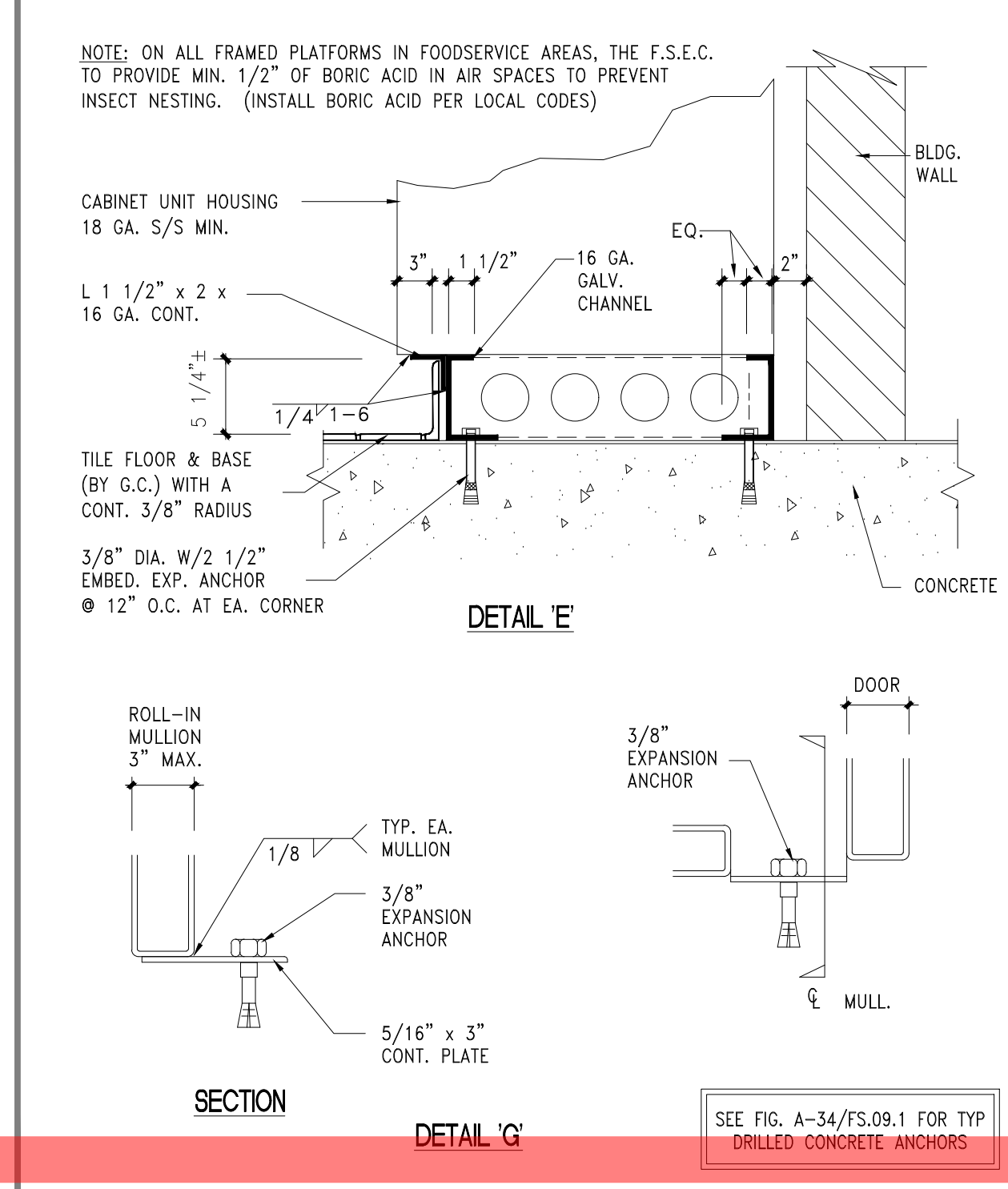


A-13 EXHAUST HOOD BRACING - UNISTRUT CONNECTIONS NTS

A-17 WALL MOUNTED SHELVES NTS

A-20 WALK-IN BOX at WOOD WALL NTS

A-22 FOOT DETAILS NTS



A-23 BASE ATTACHMENTS NTS

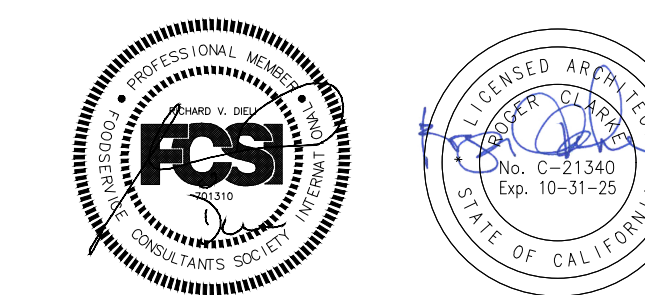
A-24 WALL SUPPORT BACKING NTS

A-25 TOP ANGLE CONNECTION (WOOD WALL) NTS

A-28 OFFSET CLIP DETAILS NTS

A-33 FURRING CHANNEL CONNECTIONS NTS

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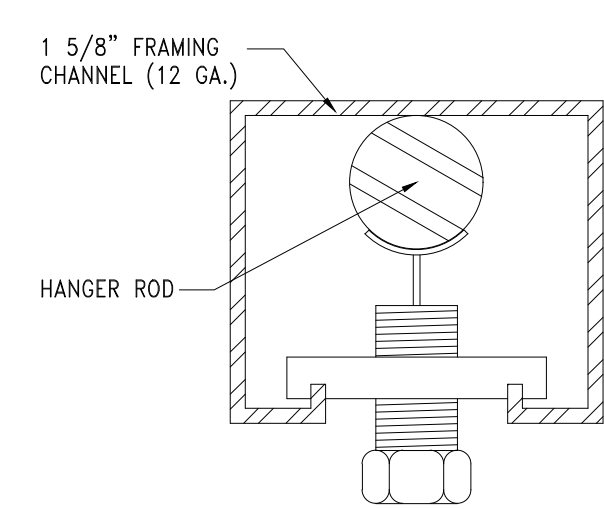


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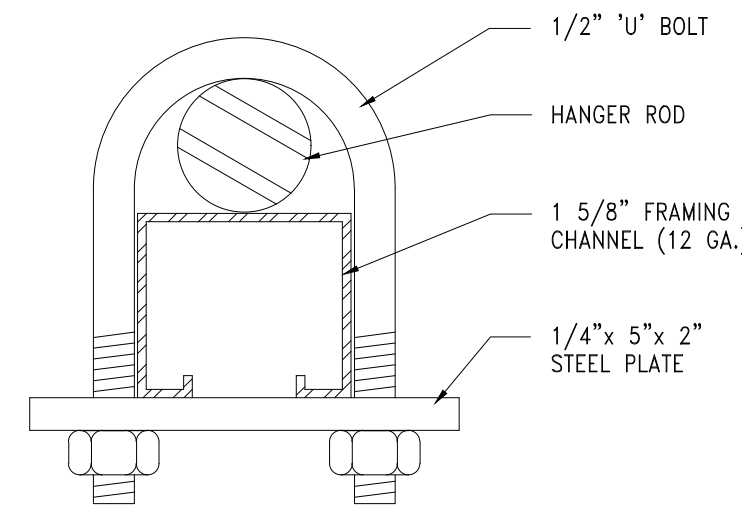
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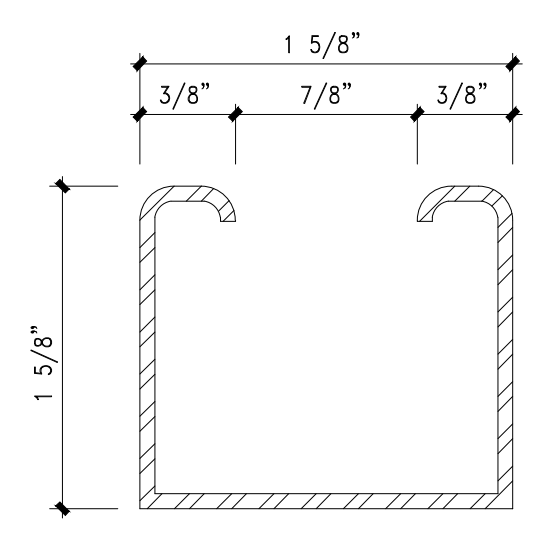


DETAIL A'
STIFFENER CONNECTION FOR 7/8" ROD AND SMALLER

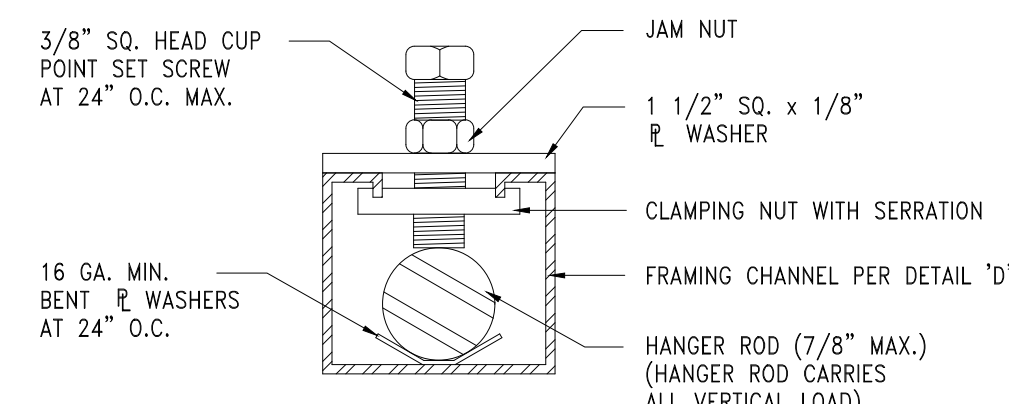
TORQUE VALUES FOR FRAMING CHANNEL BOLTS				
BOLT SIZE	1/4"	5/16"	3/8"	1/2"
FOOT POUNDS	6	11	19	50



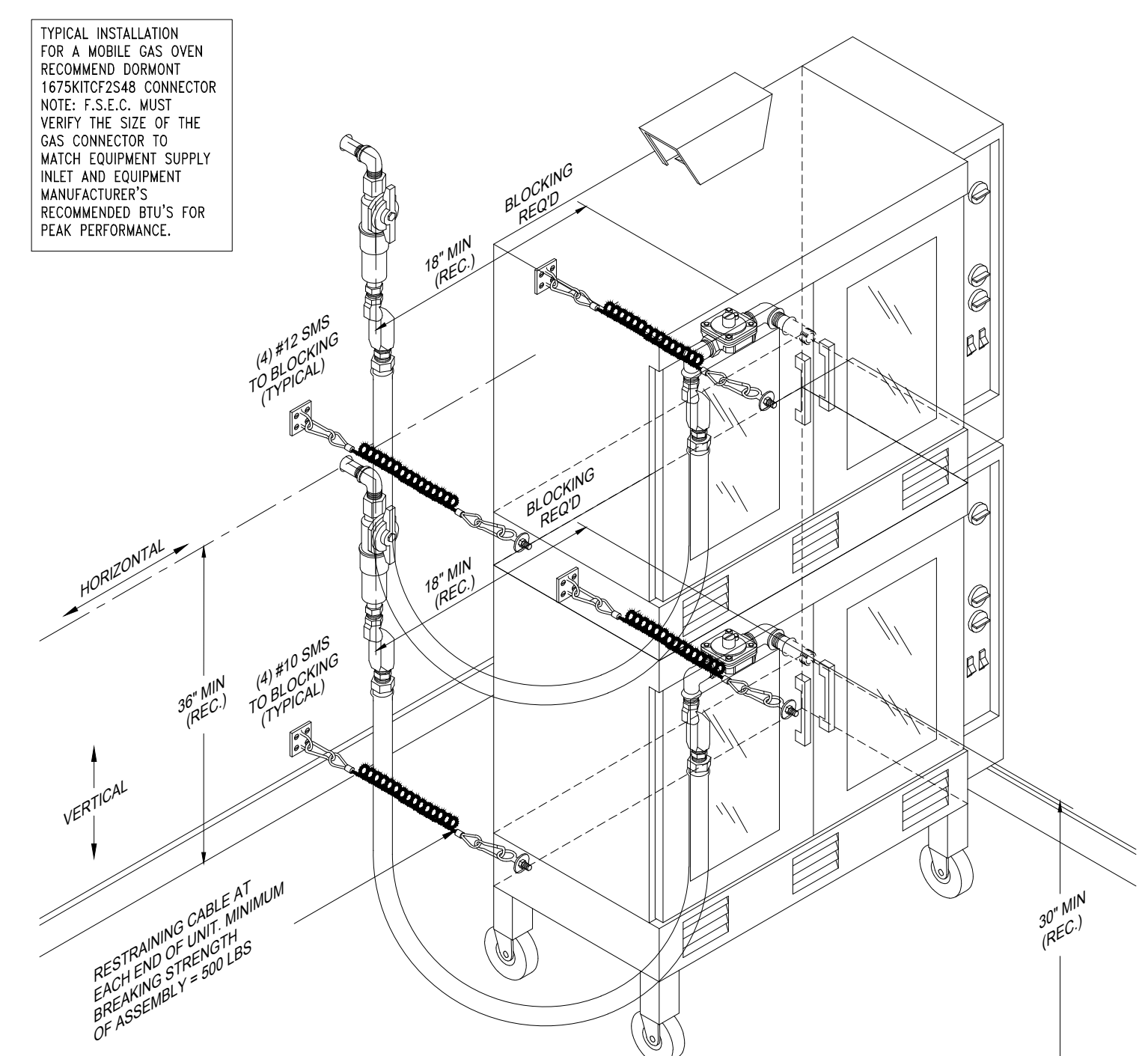
DETAIL B'
ALTERNATE STIFFENER CONNECTION



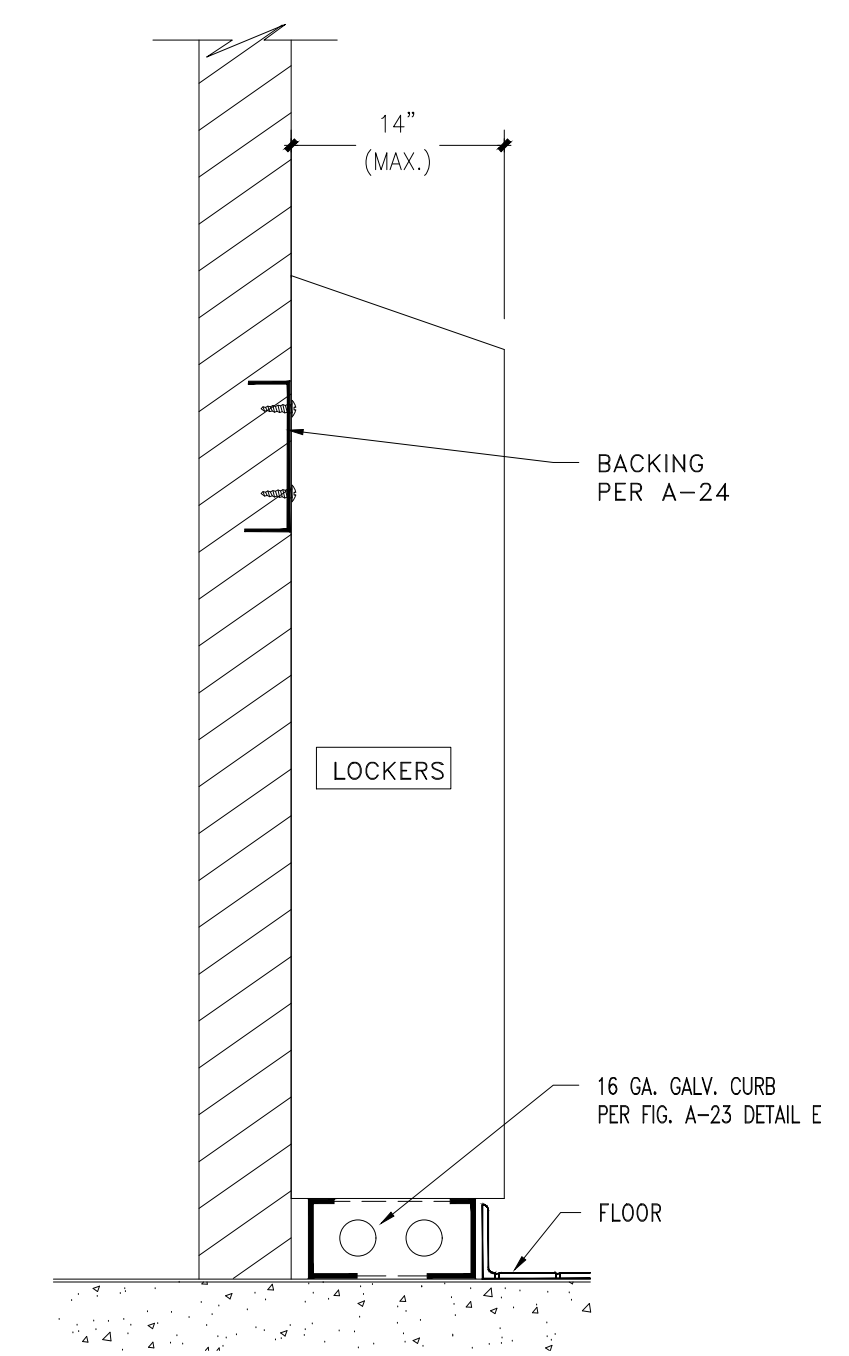
DETAIL D'
1 5/8" FRAMING CHANNEL SECTION



DETAIL C'
CHANNEL WITH HANGER ROD



TYPICAL INSTALLATION FOR A MOBILE GAS OVEN RECOMMEND DORMONT 167KITC2548 CONNECTOR NOTE: F.S.E.C. MUST VERIFY THE SIZE OF THE GAS CONNECTOR TO MATCH EQUIPMENT SUPPLY INLET AND EQUIPMENT MANUFACTURER'S RECOMMENDED BTU'S FOR PEAK PERFORMANCE.



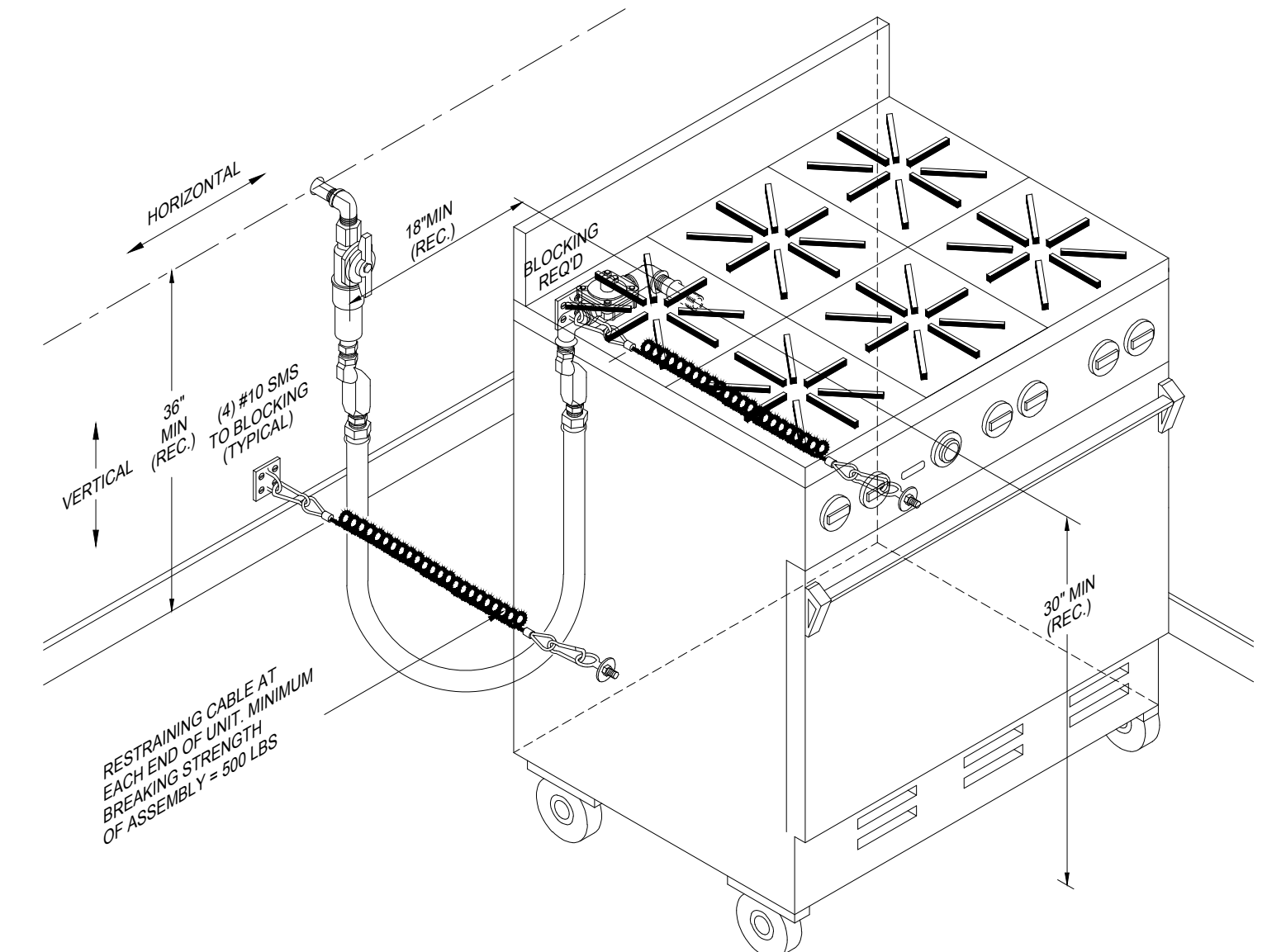
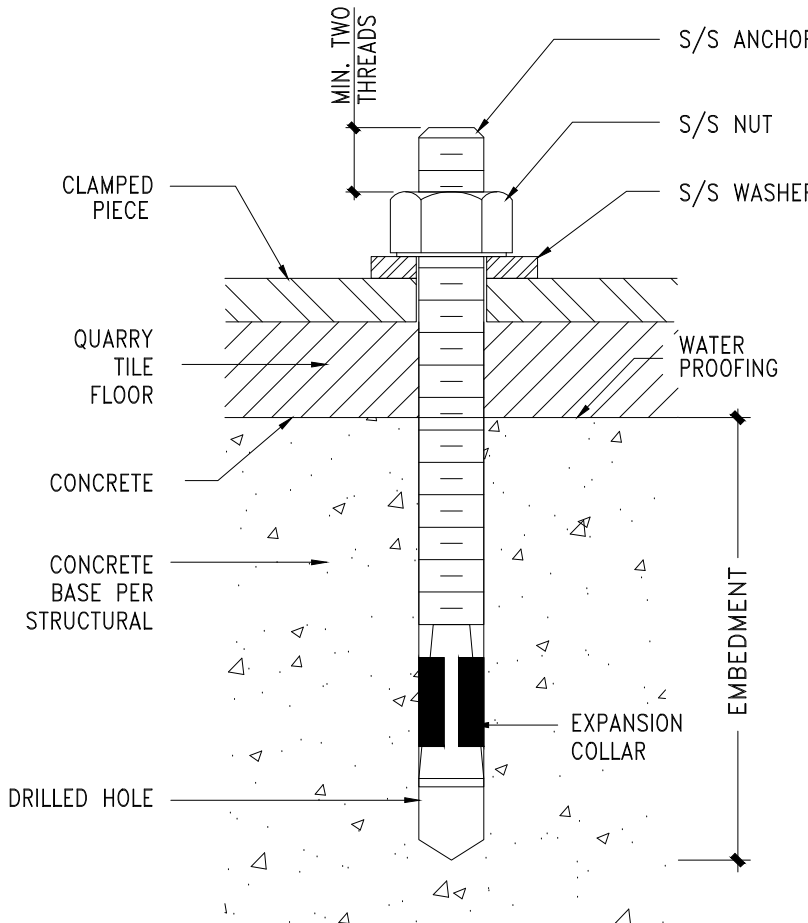
A-30 FRAMING CHANNEL / ROD STIFFENER

A-40 FLEX HOSE W/RESTRAINING CABLE FOR MOBILE GAS OVEN

A-36 ANCHORAGE AT EMPLOYEE LOCKERS

ESR-4266 | MINIMUM EDGE DISTANCE, SPACING AND CONCRETE THICKNESS FOR KB-TZ2

Setting information	Symbol	Units	Nominal anchor dia. (in.)																			
			1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4									
Effective min. embedment	h_{ef}	in.	1-1/2	1-1/2	2	2-1/2	2-1/2	3-1/4	3-1/4	4	4	5-1/2	5-1/2	6	6	7-1/2	7-1/2	8	8	8	8	
		(mm)	(38)	(38)	(51)	(64)	(64)	(83)	(83)	(102)	(102)	(127)	(127)	(140)	(140)	(152)	(152)	(165)	(165)	(178)	(178)	
Min. member thickness	t_{min}	in.	3-1/4	3-1/4	4	5	3-1/2	4	5	5-1/2	5	5-1/2	6	5-1/2	6	8	8	8	8	8	8	
		(mm)	(83)	(83)	(102)	(127)	(89)	(102)	(127)	(140)	(127)	(140)	(152)	(140)	(152)	(165)	(203)	(203)	(203)	(203)	(203)	
Stainless Steel																						
Min. edge distance	c_{min}	in.	1-1/2	5	2-1/2	2-1/2	2-3/4	2-1/2	2-1/4	4	3-1/4	2-1/4	5	4	3-3/4	3-3/4	4	4	4	4	4	
		(mm)	(38)	(127)	(64)	(64)	(70)	(64)	(57)	(102)	(83)	(57)	(127)	(102)	(95)	(102)	(95)	(95)	(95)	(95)	(95)	(95)
Min. anchor spacing	s_{min}	in.	1-1/2	8	5	5	5-1/2	4-1/2	5-1/4	7	5-1/2	7	11	7-1/2	5-3/4	5-3/4	6	6	6	6	6	
		(mm)	(38)	(203)	(127)	(127)	(140)	(114)	(133)	(178)	(140)	(178)	(279)	(191)	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(146)
Min. anchor spacing	$c \geq$	in.	1-1/2	8	4	3-1/2	4-1/8	5	4-3/4	5-1/2	4	4-1/4	8	6	5-1/4	5-1/4	6	6	6	6	6	
		(mm)	(38)	(203)	(102)	(89)	(105)	(127)	(121)	(140)	(102)	(108)	(203)	(152)	(133)	(133)	(133)	(133)	(133)	(133)	(133)	(133)



TYPICAL INSTALLATION FOR A MOBILE OPEN BURNER RECOMMEND DORMONT 167KITC2548 CONNECTOR NOTE: F.S.E.C. MUST VERIFY THE SIZE OF THE GAS CONNECTOR TO MATCH EQUIPMENT SUPPLY INLET AND EQUIPMENT MANUFACTURER'S RECOMMENDED BTU'S FOR PEAK PERFORMANCE.

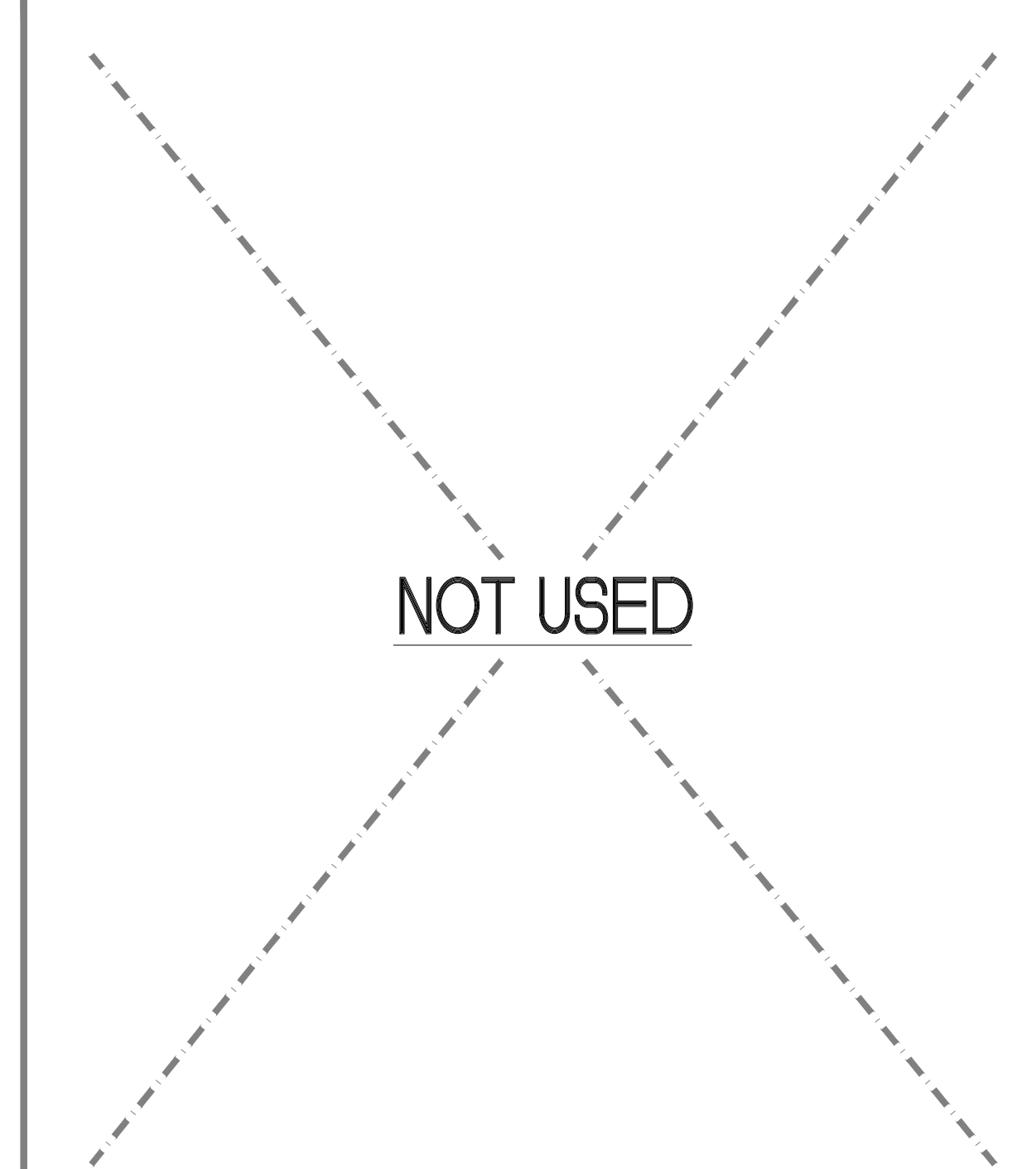
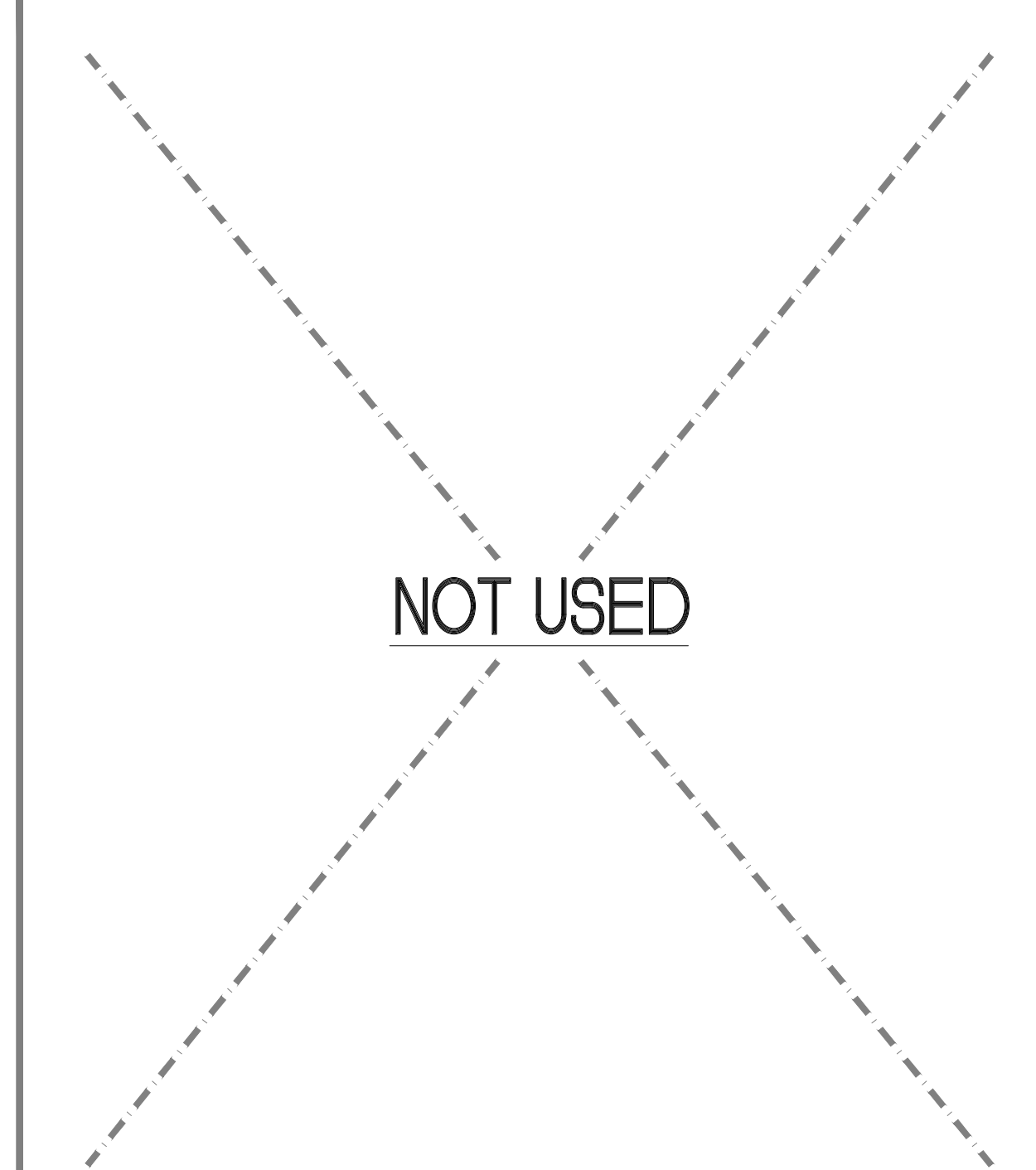
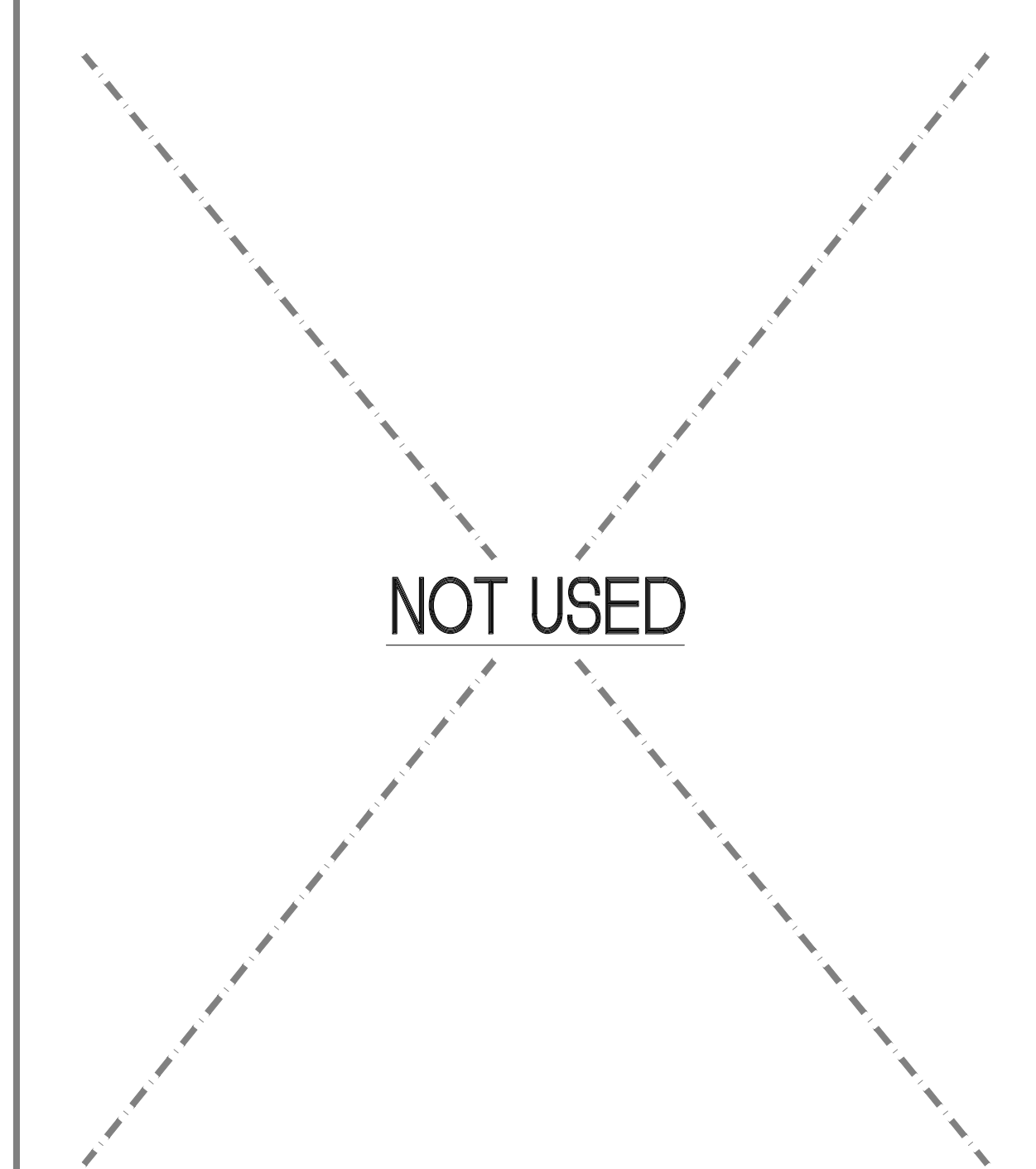
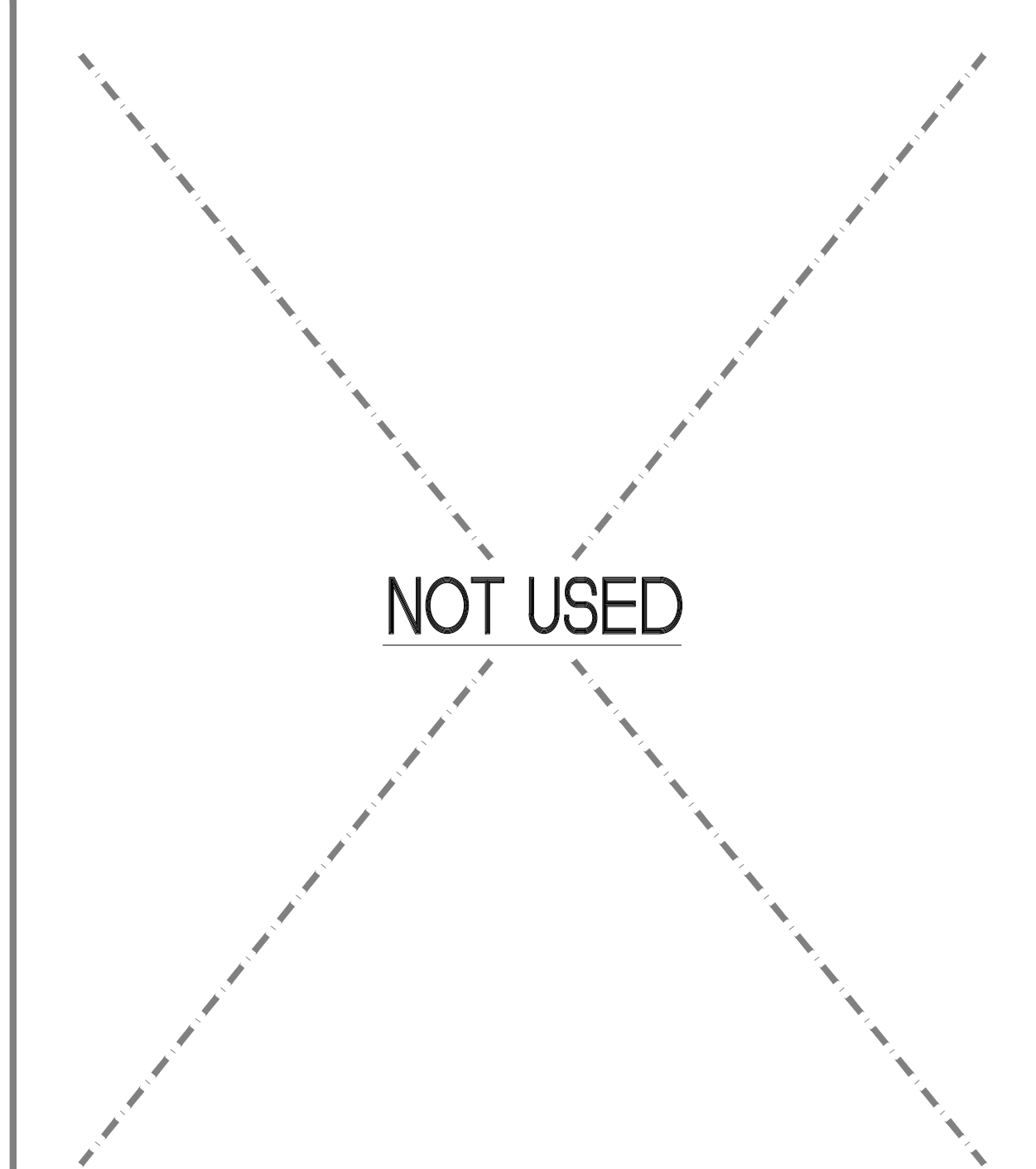
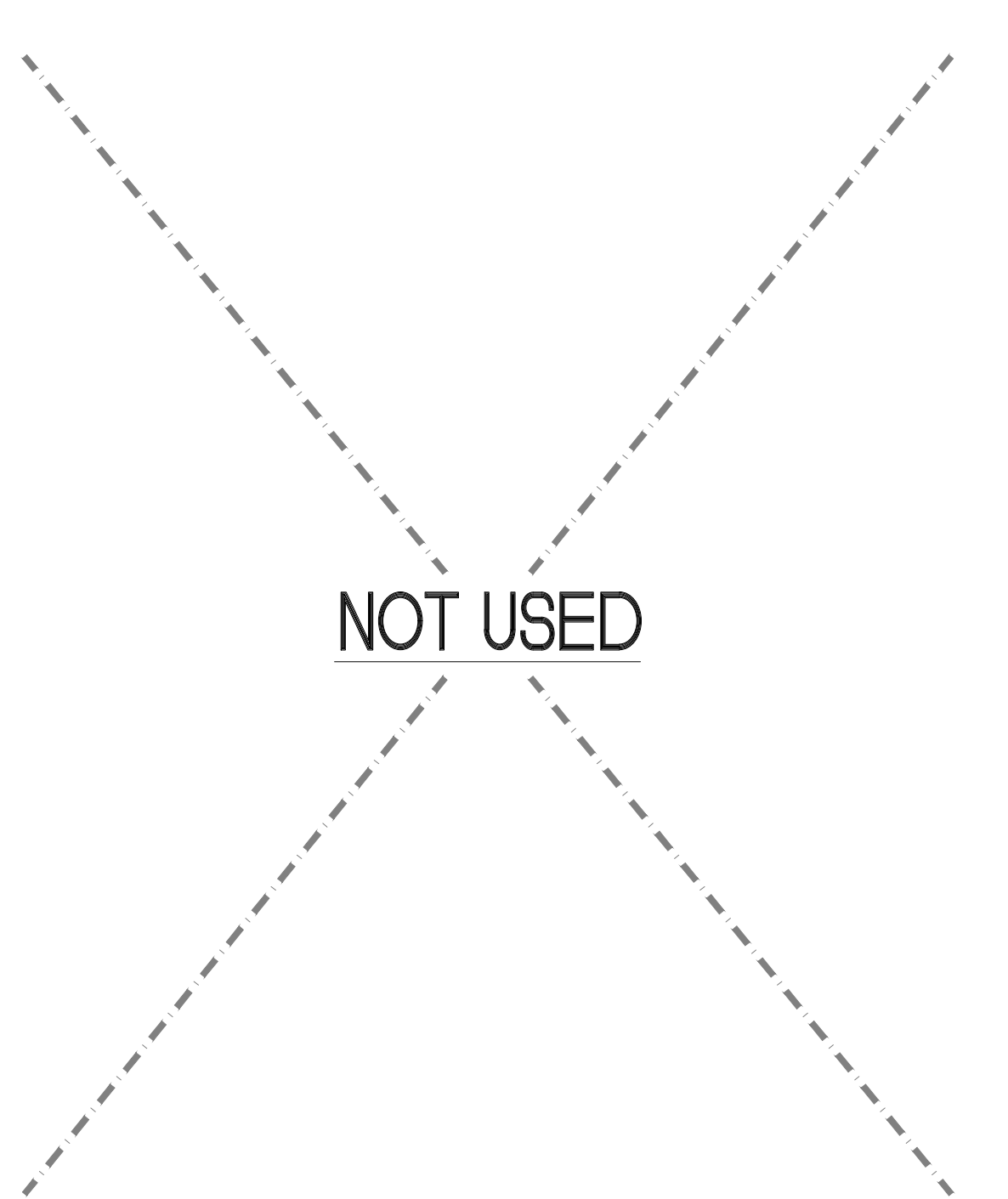
NOTE: SEE SHEET FS.09.0 FOR REFERENCE DETAILS APPLICABLE TO DETAILS ON THIS SHEET

NOTE: SEE SHEET FS.00.0 FOR ATTACHMENT RESTRAINT NOTES AND OTHER APPLICABLE NOTES

NOTE: DETAILS SHOWN ON THIS SHEET ARE FOR ATTACHMENT ONLY... FOR SHEETMETAL CONSTRUCTION AND INFORMATION, SEE DETAILS ON SHEETS FS.08.0 AND FS.08.1

A-34 TYPICAL DRILLED CONCRETE ANCHORS

A-41 FLEX HOSE W/RESTRAINING CABLE FOR MOBILE OPEN BURNER



- NOT USED NTS - NOT USED NTS - NOT USED NTS - NOT USED NTS - NOT USED NTS

FOR REFERENCE ONLY

PROJECT No. : 1-34-32
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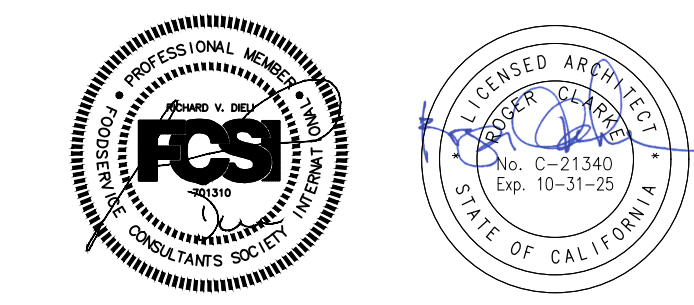
ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION

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KITCHEN UPGRADES
 JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

**FOODSERVICE EQUIP.
 ATTACHMENT DETAILS**

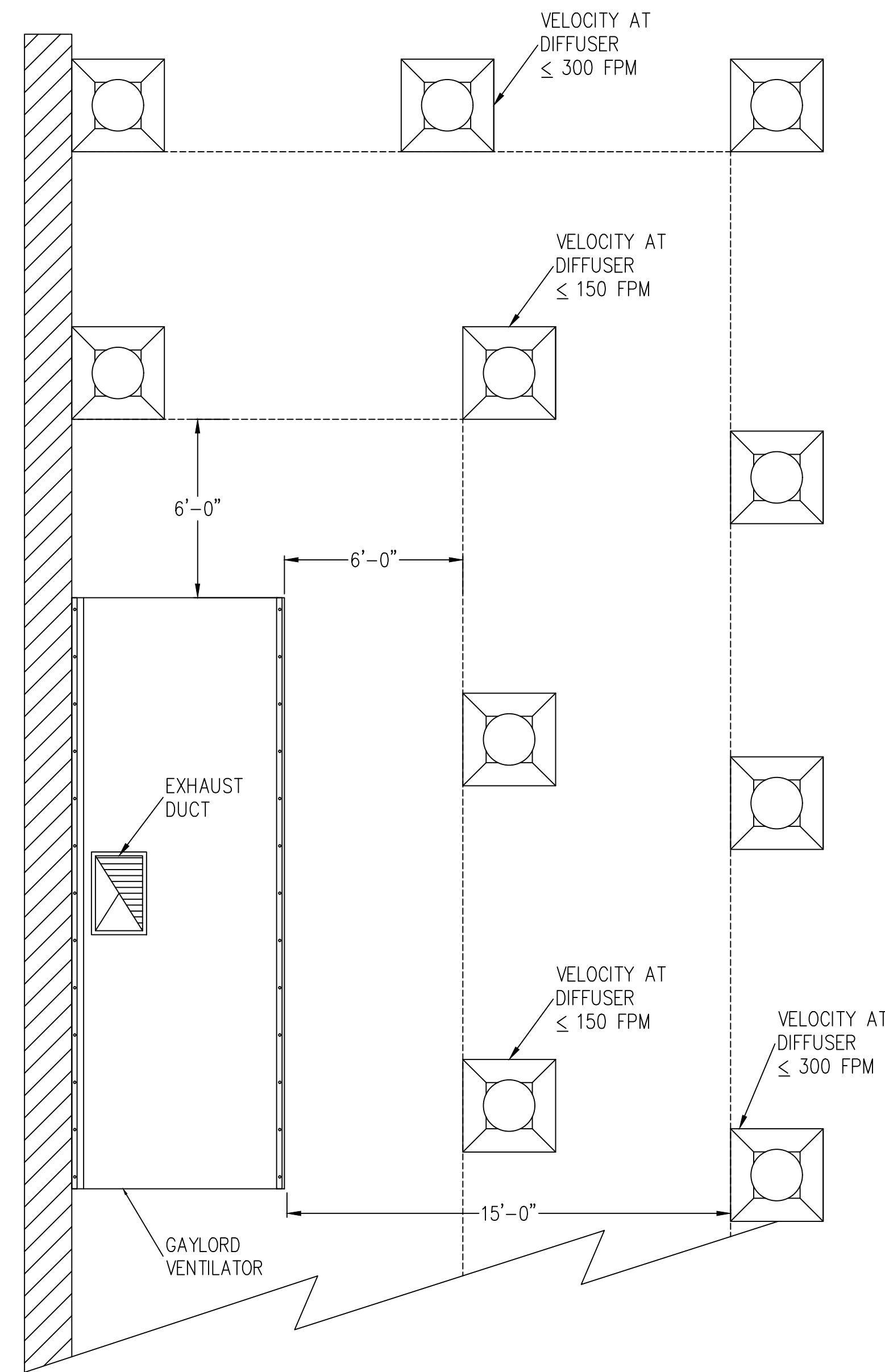
FS.09.1



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 A Division of WEBB FOODSERVICE DESIGN
 Food Service Design Consultants
 P.O. Box 28197, San Diego, CA 92128
 Design By: Richard Dieli Phone: 619.285.1189
 1530 South Lewis Street, Anaheim, CA 92805
 Phone: 714.508.1880

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CONSULTANT BRANDING



Gaylord Capture Performance Guarantee

Gaylord warrants the Capture Performance of the ventilator, only if the Exhaust Air Volumes are correct, per the Exhaust Air Volume Guidelines, and the Make-up Air Volumes are correct and the make-up air is delivered correctly, per the Make-up Air Delivery Guidelines as stated below.

Exhaust Air Volume Guidelines:

1. The amount of air exhausted by the Gaylord Ventilator shall be between 100% and 110% of the values shown on the Plan View for the Exhaust Ducts for each ventilator

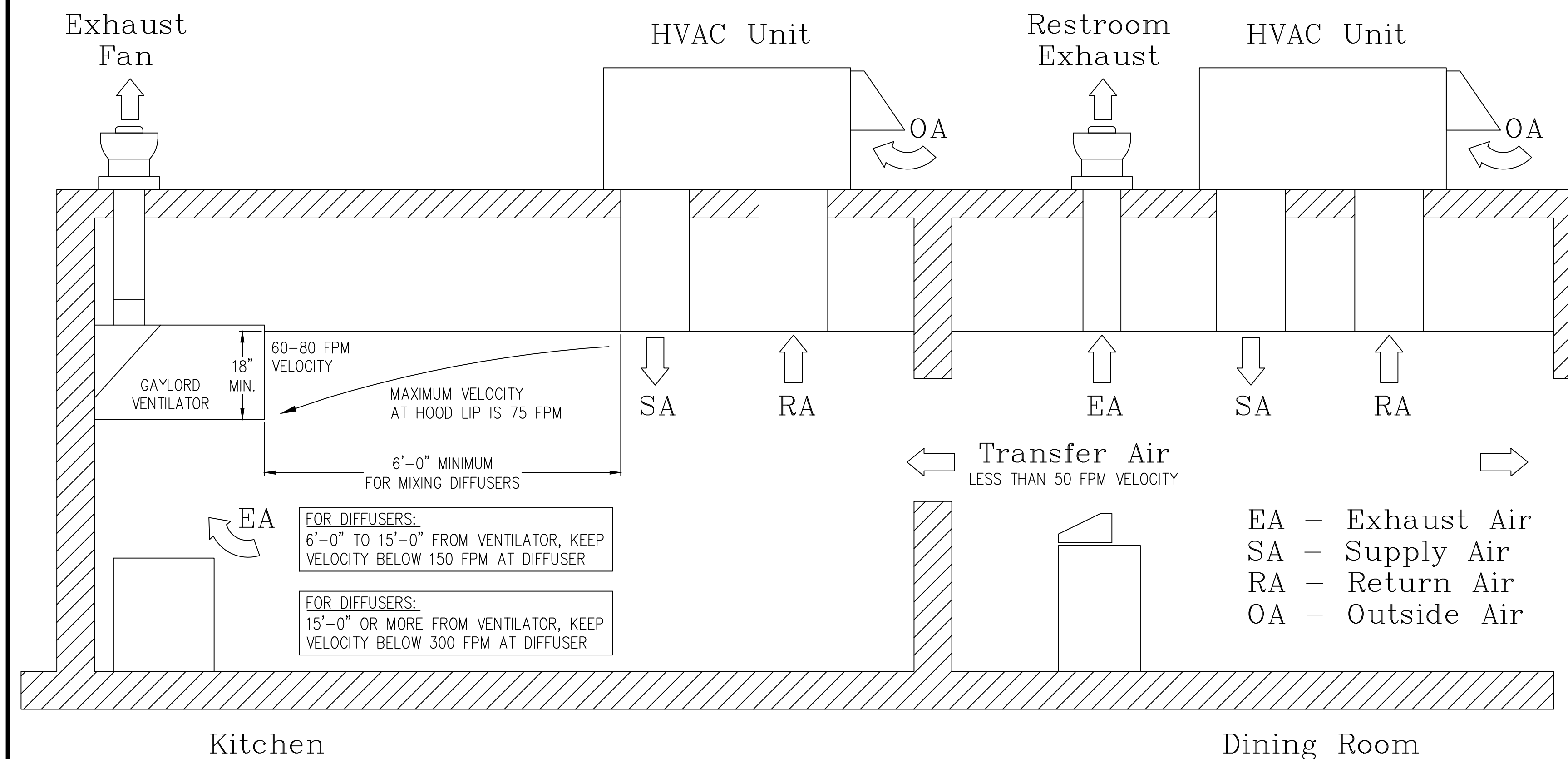
Make-up Air Delivery Guidelines:

1. Gaylord "PBW" Plenum boxes shall be included for each ventilator
2. The amount of make-up air delivered through the Gaylord "PBW" plenum boxes shall be between 90% and 100% of the values shown on the Plan View for the Supply Ducts for each ventilator
3. The make-up air delivered using Gaylord "PBW" plenum boxes shall not exceed 60% of the exhaust volume of the ventilator
4. Ceiling diffusers shall be at least 6'-0" from all sides of the ventilator and the velocity at the diffuser shall not exceed 150 Feet per Minute (FPM)

OR

- Ceiling diffusers shall be 15'-0" from all sides of the ventilator and the velocity at the diffuser shall not exceed 300 Feet per Minute (FPM)
- The maximum velocity of the make-up air from Transfer Air, Diffusers, etc. shall not exceed 75 FPM at the ventilator lip
- Cross drafts from pass through windows, hallways, or other openings shall not exceed 50 FPM
- All forms of make-up air introduction (PBW, Transfer Air, Diffusers, etc.) must be evenly distributed around each ventilator to prevent unequal pressurization
- Kitchen pressurization shall not exceed -0.02"W.G. relative to the dining or adjacent spaces, as stated in NFPA-96 and ASHRAE Standard 154
- For more information on acceptable methods of Make-up Air Delivery reference ASHRAE Standard 154.

Following these guidelines will result in proper capture and containment at the ventilator and enact the Gaylord Capture Performance Guarantee. If jobsite conditions cannot accommodate these guidelines, consult factory for alternative design.



THE GAYLORD VENTILATOR TESTING, LISTING AND COMPLIANCE REFERENCES:

IMPORTANT NOTE: Gaylord Ventilators are designed to meet the National codes listed below. Local codes may vary. Gaylord Industries must be notified in writing of local codes that may affect the ventilator design.

NATIONAL FIRE PROTECTION ASSOCIATION
 The exhaust ventilator meets all requirements of the latest edition of NFPA-96.

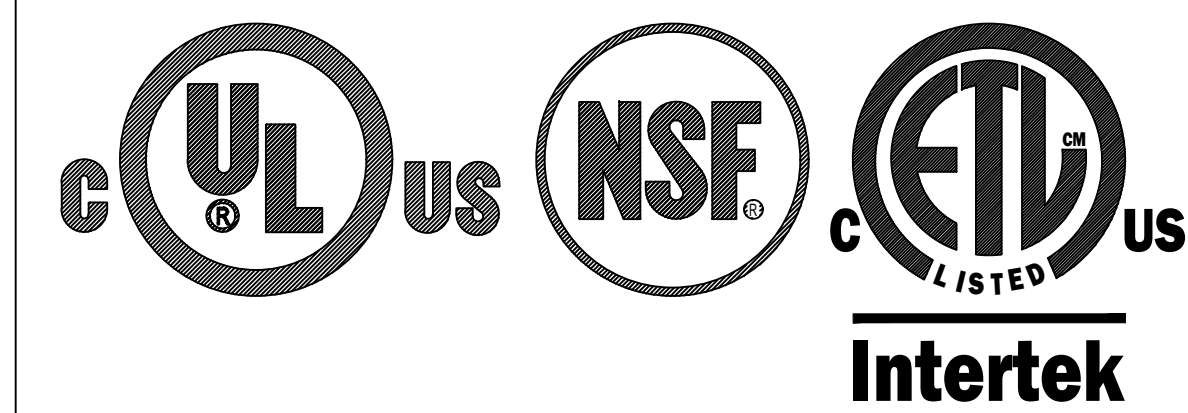
NATIONAL SANITATION FOUNDATION
 The exhaust ventilator is NSF listed to: Standard #2 - "Food Service Equipment"

INTERNATIONAL & UNIFORM MECHANICAL CODE
 The exhaust ventilator meets all requirements of IMC and UMC.

UNDERWRITERS LABORATORIES, INC.
 The exhaust ventilator is UL Listed. *

INTERTEK TESTING SERVICES
 The exhaust ventilator is ETL Listed. *

* UL and ETL listed exhaust ventilators are tested to standard: UL 710 - "Exhaust Hoods for Commercial Cooking Equipment".



GENERAL NOTES FOR NON-WATER WASH VENTILATORS

- ELECTRICAL**
1. Locate Fan Start/Stop Switch in a convenient location. Refer to the wiring diagram for required voltage.
 2. If ventilators are equipped with light fixtures, provide a separate light circuit to the ventilator as shown on electrical plan.
- EXHAUST VOLUME REQUIREMENTS**
3. Exhaust Volumes as shown on the drawings are determined by established Gaylord engineering methods and in accordance with the terms of the ventilator's listing. These air volume levels require that the make-up air be brought into the space in such a way that it does not negatively affect the ventilator. See the Make-up Air Requirements and the "Typical Design" drawing.
 4. Ventilator static pressure is noted on each ventilator plan view. Total duct system and other external static's must be added to the ventilator static for determining the total system static pressure drop. Static based on operation at mean sea level at 75°F kitchen ambient.
- MAKE-UP AIR REQUIREMENTS**
5. Make-up air is critical to the performance of the ventilator.
 6. The total amount of make-up air (supply air) brought into the kitchen must be between 90% and 100% of the total exhaust volume. It should be brought in throughout the kitchen evenly for best results. See the "Typical Design" drawing.
- AIR FLOW RATES**
7. Exhaust and Supply Air Flow Rates were established under controlled laboratory conditions. Greater Exhaust and/or lesser Supply Air Flows may be required for complete vapor removal in specific installations.
- INSTALLATION**
8. Ventilators to be installed in accordance with NFPA-96 and all other local applicable codes. Contractors must review applicable codes with code authorities before approving drawings for fabrication. Special attention must be given to code regulations relative to clearances from surrounding combustible and limited combustible construction (walls, ceiling, etc.).
 9. Ventilators manufactured in multiple sections are factory pre-wired to a single connection point. Ventilator wiring is disconnected for shipment to be reconnected by electrical contractor.
 10. Ventilators manufactured in multiple sections may have drains factory interconnected (see drawing) to a single outlet point. Ventilator plumbing is disconnected for shipment to be reconnected by plumbing contractor.
 11. All ductwork beyond the ventilator duct take-off collar to be provided and installed by others, in accordance with applicable codes. Exhaust ducts must be continuously welded liquid tight.
 12. All ventilators are equipped with hanging brackets. Hanging rods to be supplied by ventilator installer. Hanging weight of the ventilator(s) is noted on each drawing.
 13. Ventilators manufactured in multiple sections are provided with bolts, clips, and all necessary hardware for reconnecting by the ventilator installer.
- CONSTRUCTION**
14. Ventilators are manufactured in strict accordance with Gaylord specifications.
 15. Ventilators constructed of 18 Ga. stainless steel, Type 300 series, No. 4 finish unless otherwise noted on drawings.
- FIRE EXTINGUISHING SYSTEM**
16. Fire extinguishing system to be installed in accordance with NFPA-96. Refer to "FIRE PROTECTION SYSTEM NOTES" for information on supplier and installation. Caution: Fire extinguishing system piping installed on the ventilator at job site should be coordinated with Gaylord to ensure piping does not interfere with the ventilator's operation/performance. Improper installation may void the Listings of the ventilator.
 17. **IMPORTANT NOTE:** NFPA-96 requires that all gas and electric cooking equipment, that is protected by surface fire protection, must automatically shut off upon activation of the fire extinguishing system.
 18. **IMPORTANT NOTE:** Most building departments require separate hood and fire protection permits prior to installation. The hood permit is typically obtained through the plan review department and the fire protection permit from the fire prevention bureau. It is the responsibility of the installing contractor to check with local building departments for their requirements and to obtain necessary permits.
- LIGHTING**
20. Light fixtures in ventilators will provide less than 30 foot candles of light at the cooking surface as a standard, unless otherwise noted on Section View. Confirm if this amount of light is acceptable with local health codes.

1 TYP DESIGN + CAPTURE PERFORMANCE GUARANTEE

2 GENERAL NOTES

PROJECT No. : 1-34-32

ISSUE No.	DATE	DESCRIPTION	REVISION No.	DATE	DESCRIPTION

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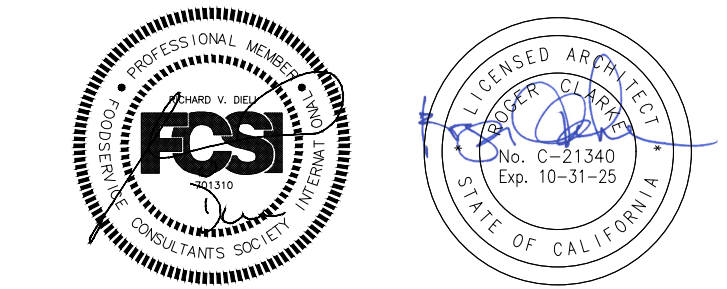
3775 TENTH STREET, REDWOOD CITY CALIFORNIA 94061 (916) 484-4664 / 5753 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899

KITCHEN UPGRADES

JOYCE ELEMENTARY SCHOOL
 6050 WATT AVE, NORTH HIGHLANDS, CA 95660
 TWIN RIVERS UNIFIED SCHOOL DISTRICT

FOODSERVICE EQUIP.
 EXHAUST HOOD
 DETAILS

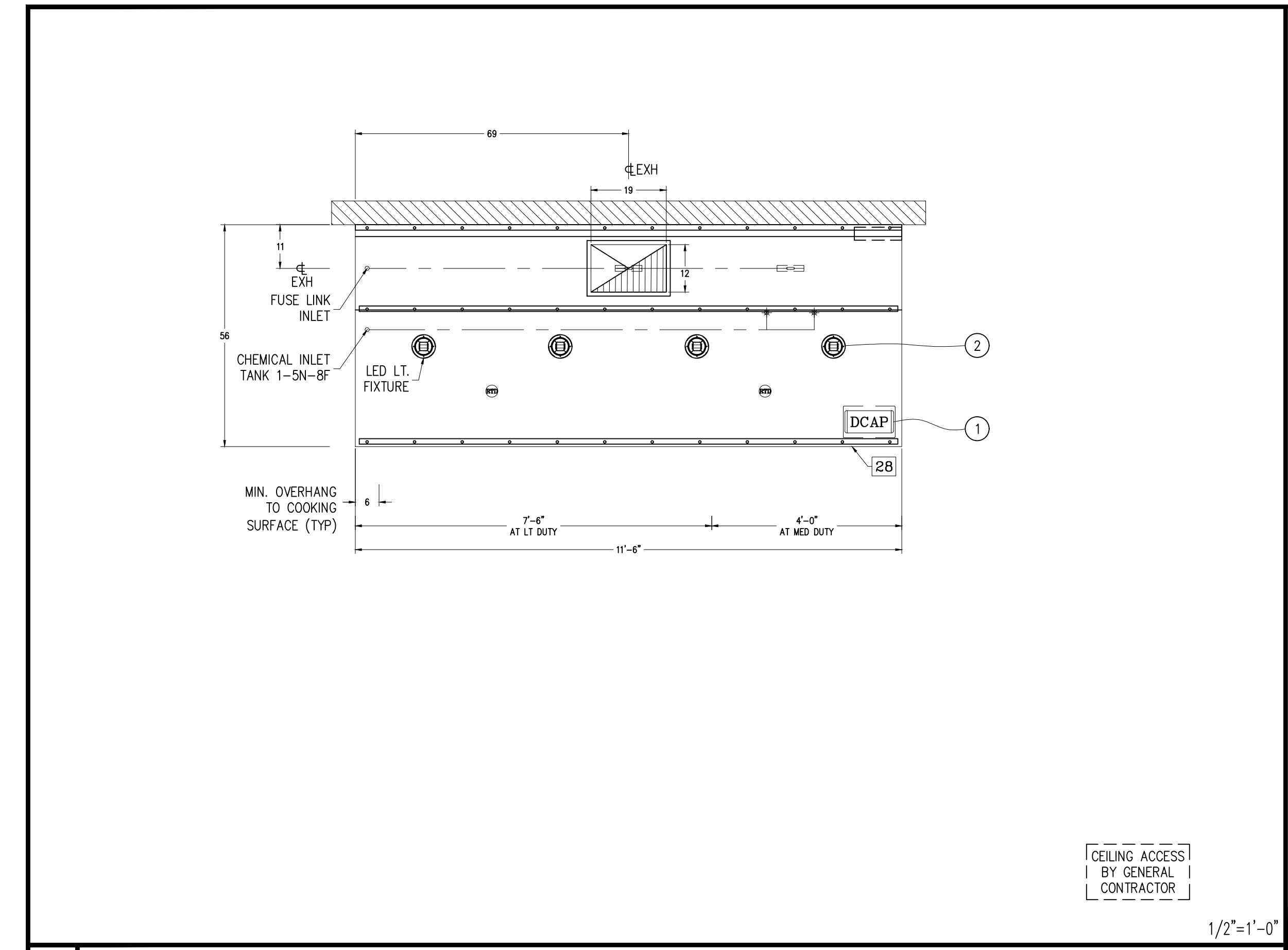
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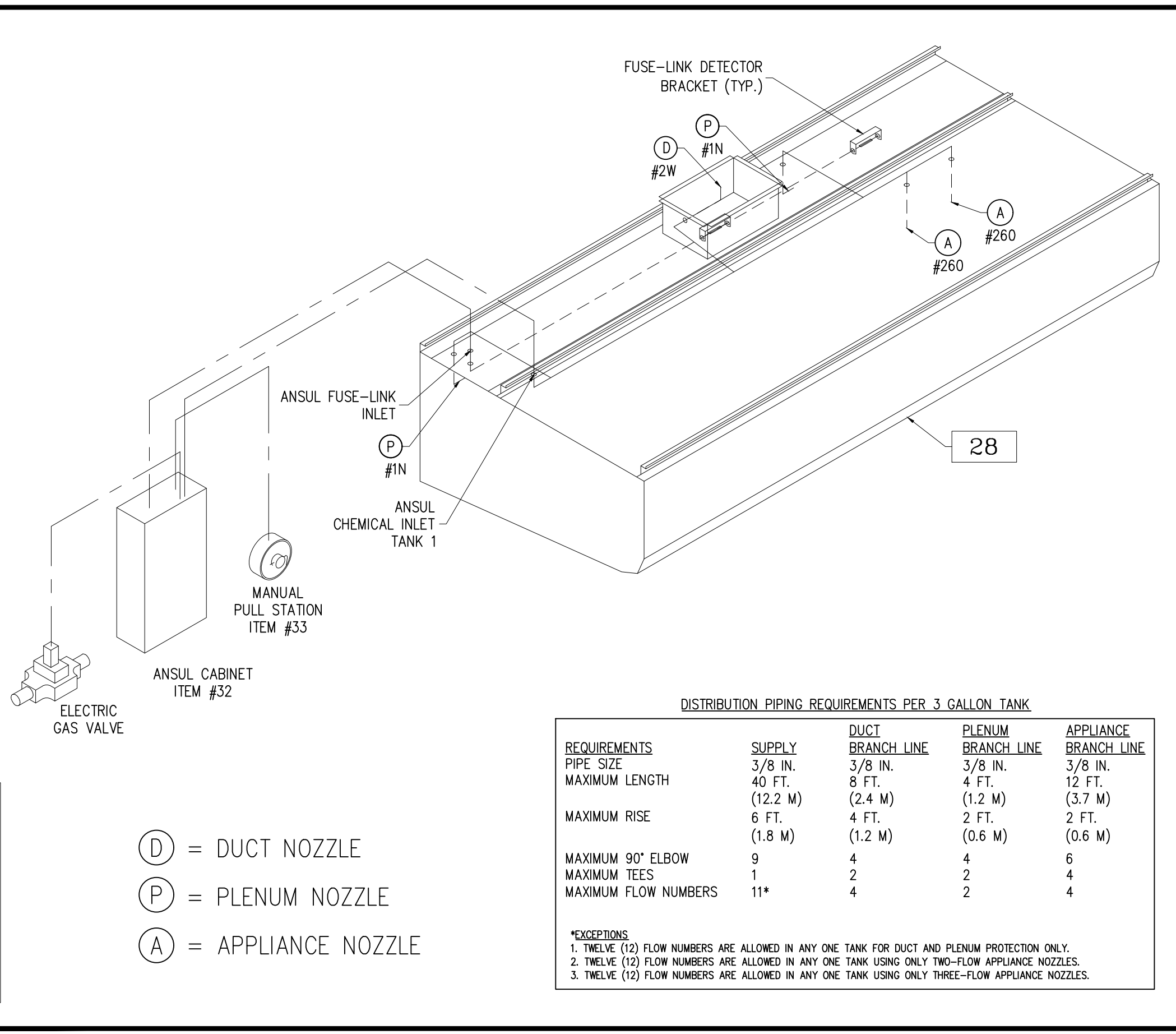
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FLOW POINT CALCULATION CHART

NOZZLE	QUANTITY	2 FLOWS	1 FLOW
2W	1	2 (EACH)	
1N	2	1 (EACH)	
260	2	2 (EACH)	
TOTAL	5	8	



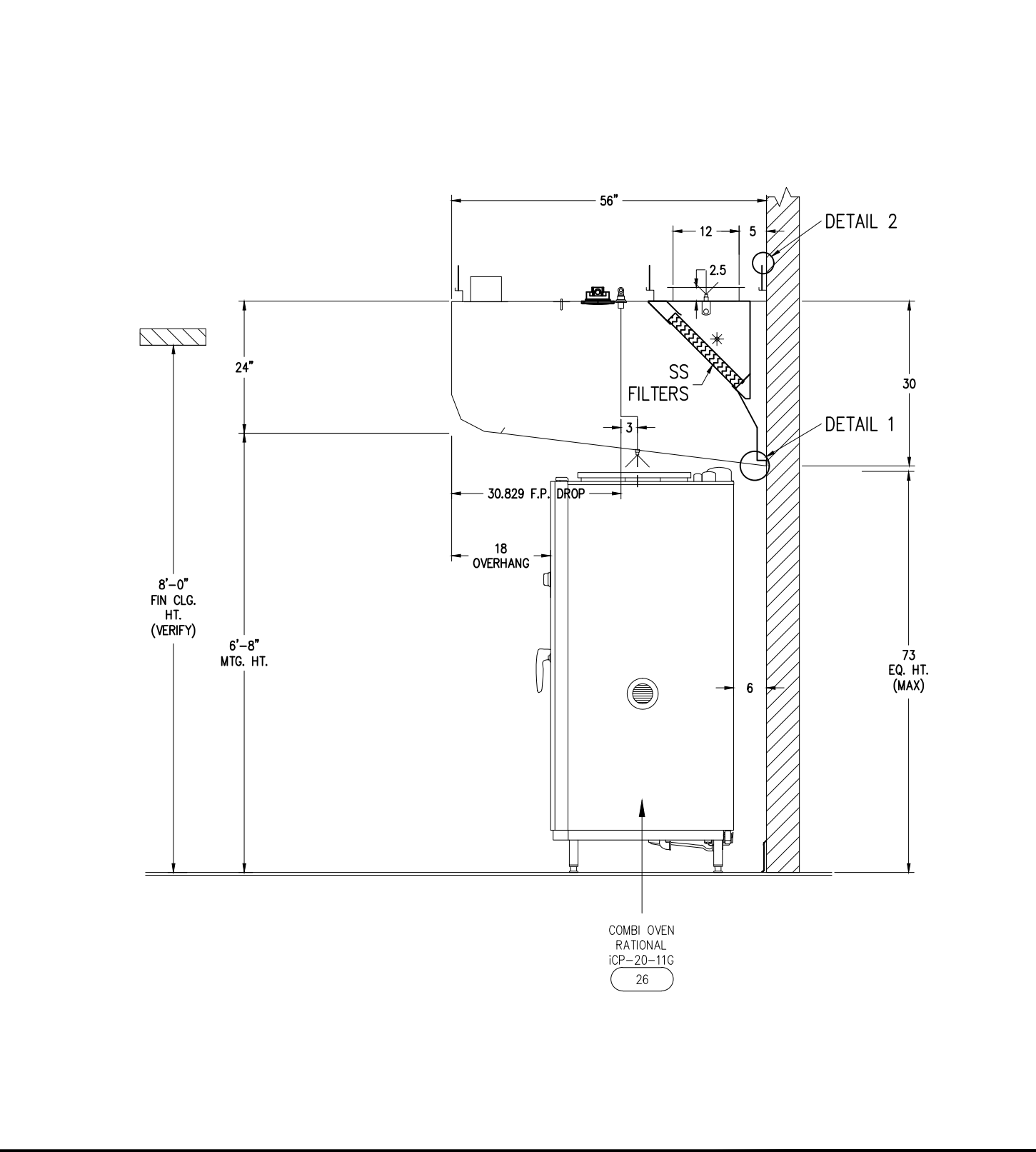
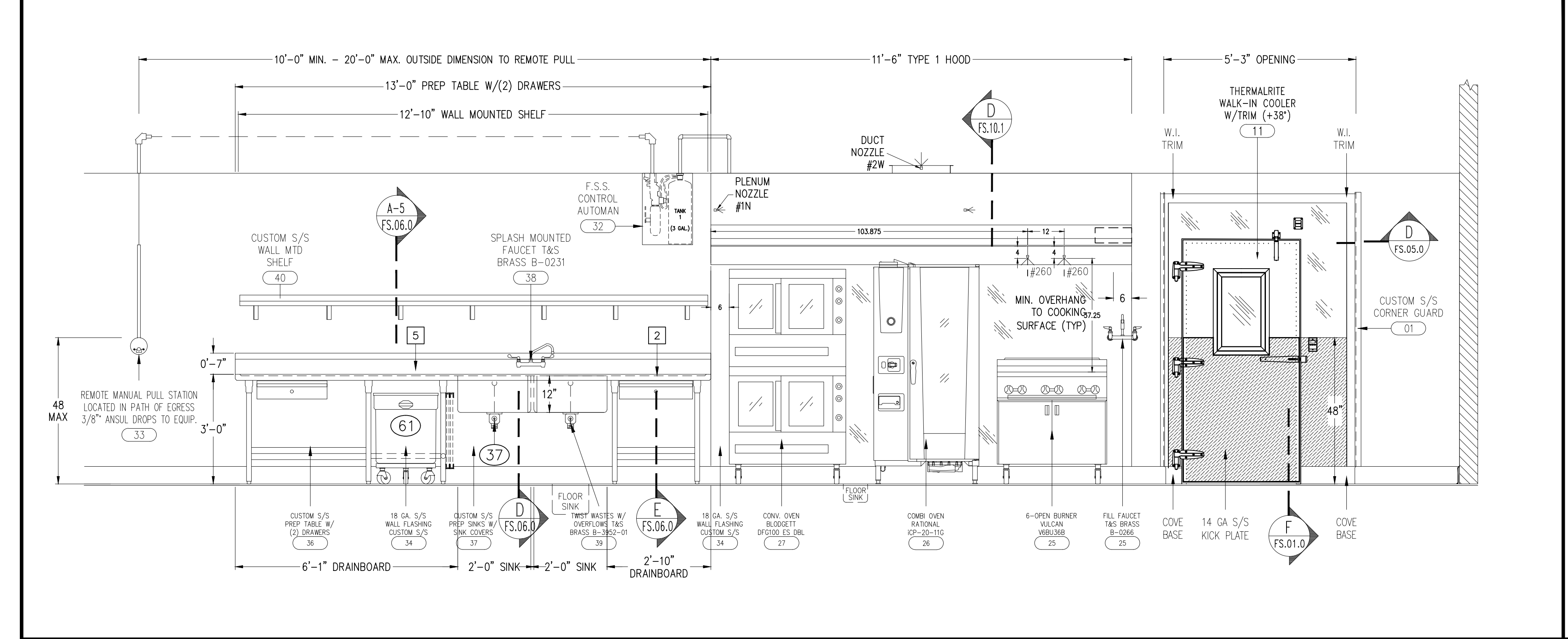
DISTRIBUTION PIPING REQUIREMENTS PER 3 GALLON TANK

REQUIREMENTS	SUPPLY PIPE SIZE	DUCT BRANCH LINE	PLENUM BRANCH LINE	APPLIANCE BRANCH LINE
PIPE SIZE	3/8 IN.	3/8 IN.	3/8 IN.	3/8 IN.
MAXIMUM LENGTH	40 FT. (12.2 M)	8 FT. (2.4 M)	4 FT. (1.2 M)	12 FT. (3.7 M)
MAXIMUM RISE	6 FT. (1.8 M)	4 FT. (1.2 M)	2 FT. (0.6 M)	2 FT. (0.6 M)
MAXIMUM 90° ELBOW	9	4	4	6
MAXIMUM TEES	1	2	2	4
MAXIMUM FLOW NUMBERS	11*	4	2	4

EXCEPTIONS:
 1. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK FOR DUCT AND PLENUM PROTECTION ONLY.
 2. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK USING ONLY TWO-FLOW APPLIANCE NOZZLES.
 3. TWELVE (12) FLOW NUMBERS ARE ALLOWED IN ANY ONE TANK USING ONLY THREE-FLOW APPLIANCE NOZZLES.

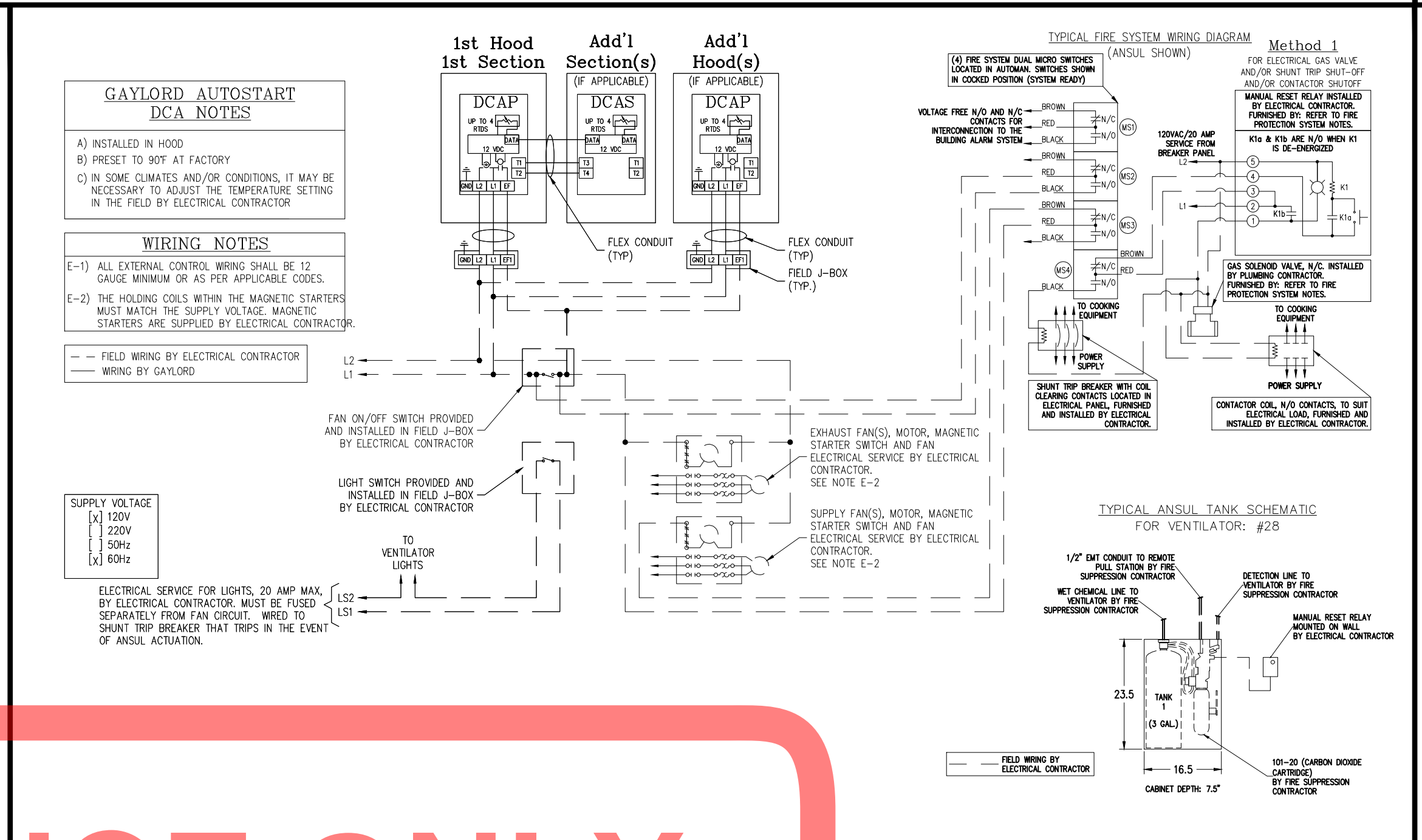
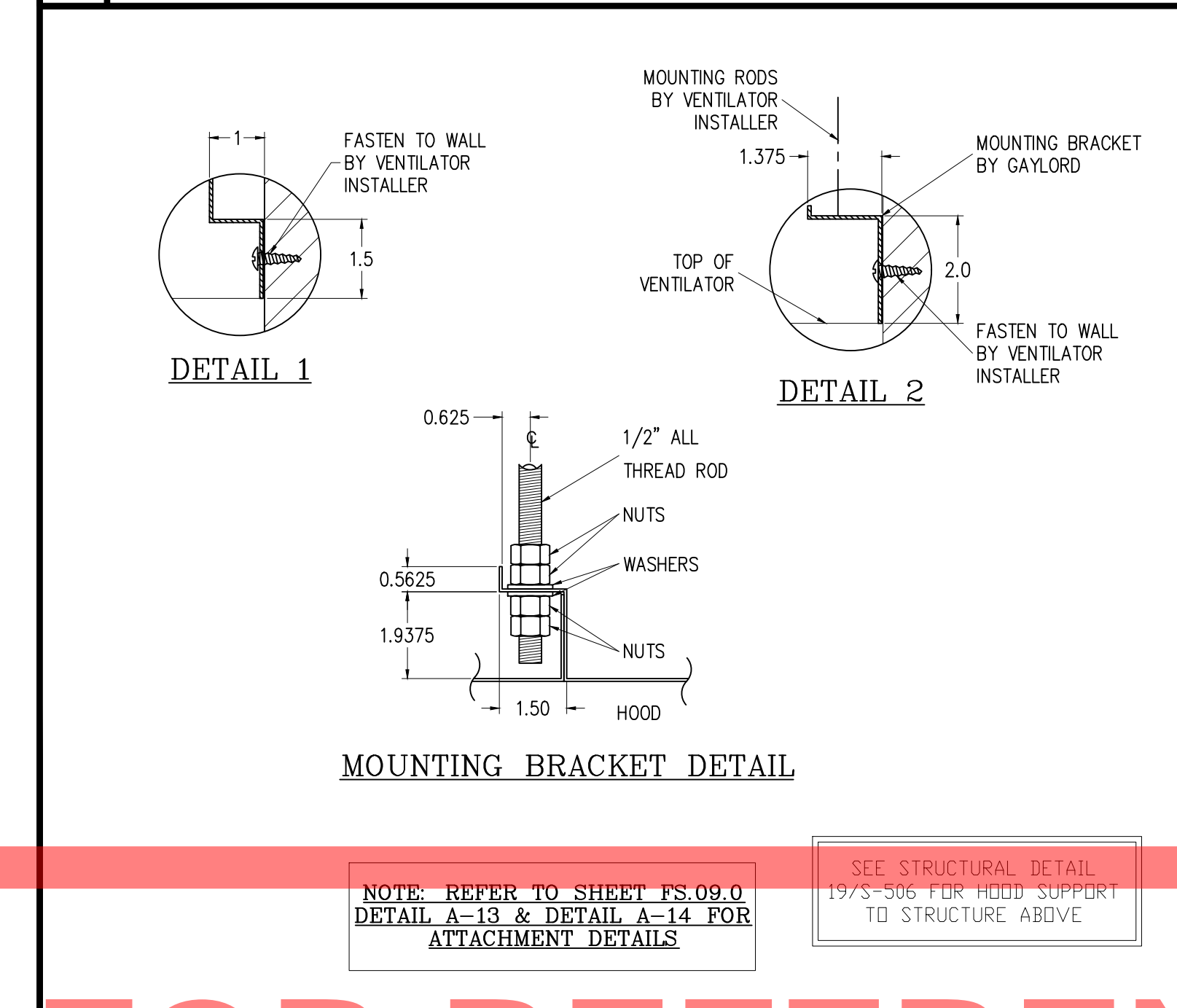
A PLAN VIEW of TYPE 1 EXHAUST HOOD, Item #28, MODEL #EL-SD-MP-SS-DCA-300-56

B FIRE SUPPRESSION SYSTEM (Items #31, 32 + 33) - (Isometric View)



C ELEVATION of TYPE 1 EXHAUST HOOD (Item #28) + FIRE SUPPRESSION SYSTEM (Items #31, 32 + 33)

D SECTION of TYPE 1 EXHAUST HOOD



E HOOD MOUNTING DETAILS

F TYPICAL FIRE SUPPRESSION SYSTEM WIRING DIAGRAM (ANSUL SHOWN)

HOOD EXHAUST INFORMATION CHART

ITEM #	DUCT COLLAR	CFM/LF	TOTAL CFM	STATIC PRESSURE	VELOCITY
28	12" X 19"	201	2315	0.42" W.G.	1462 FPM

HOOD BAFFLE FILTERS

ITEM #	QTY.	FILTER	BAFFLE SIZE	MAX CFM/LF
28	8	SS Baffle	20" X 16"	400 CFM/LF

HOOD INFORMATION

ITEM NO.	MODEL	SIZE	AIR FLOW REQUIREMENTS				WEIGHT (LBS)		
			DUCT TYPE	DUCT QTY.	DUCT SIZE (IN.)	DUCT WEIGHT (LBS)			
28	EL	18x 62	N/A	8	4-03	335	19	12	939

G HOOD EXHAUST INFORMATION CHART

FIRE SUPPRESSION SYSTEM NOTES
 ANSUL R-102-ASEF

FP-1) LOCATION OF FIRE SUPPRESSION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

COMPLETE SYSTEM INCLUDING APPLIANCE DROPS AND SURFACE MOUNTED DETECTOR BRACKETS, WITH FIELD INSTALLATION BY GAYLORD.

ANSUL FIRE SYSTEM (LISTED TO A U.L. 300) FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT, PLENUM AND APPLIANCE DROPS WITH ALL NOZZLES INSTALLED PER COOKING EQUIPMENT ARRANGEMENT ON GAYLORD APPROVED DRAWINGS. ALL EXPOSED CHEMICAL PIPING CHROME PLATED OR CHROME SLEEVED. INCLUDES FACTORY PRE-PIPED DETECTOR LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.

INCLUDES:

- TANK(S) AND RELEASE ASSEMBLY(S)
- CHEMICAL
- DETECTOR CABLE
- FUSIBLE LINKS WITH LINKAGE
- EXPPELLANT GAS CARTRIDGE(S) (PROVIDED BY FIRE SUPPRESSION INSTALLER)
- (1) REMOTE MANUAL PULL STATION
- (1) GAS VALVE PER FIRE SYSTEM WITH A MAXIMUM SIZE OF 2-1/2"
- (1) MANUAL RESET RELAY PER FIRE SYSTEM, IF REQUIRED
- PLANS AND PERMITS (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)
- PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
- INSTALLATION OF TANKS AND RELATED COMPONENTS
- INSTALLATION OF DETECTOR CABLE AND FUSIBLE LINKS
- INSTALLATION OF REMOTE MANUAL PULL STATION
- JOB SITE REPOSITIONING OF NOZZLES AS PER GAYLORD APPROVED DRAWINGS, IF REQUIRED TO MEET SYSTEM DESIGN REQUIREMENTS
- TRIP TEST AND CERTIFICATION (ON JOBS INSIDE OF THE UNITED STATES AND NON-MARINE JOBS)

EXCLUDES:

- UNION LABOR AND PREVAILING WAGE
- INSTALLATION OF GAS VALVE(S)
- ELECTRICAL DISCONNECTS
- PARTS AND LABOR FOR ANY ELECTRICAL INTERCONNECTIONS
- JOB SITE REPOSITIONING OF NOZZLES IF COOKING EQUIPMENT IS NOT INSTALLED PER GAYLORD APPROVED DRAWINGS
- PLANS AND PERMITS ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- TRIP TEST AND CERTIFICATION ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- HAND HELD FIRE EXTINGUISHER(S)
- INSPECTOR AND SERVICE ON JOBS OUTSIDE OF THE UNITED STATES AND ON MARINE JOBS
- RECESSED ANSUL CABINET(S)

VENTILATOR NOTES (NON-WATER WASH)

A) VERIFY ALL MAKES AND MODELS OF COOKING EQUIPMENT AND LOCATION IN RELATION TO VENTILATOR PRIOR TO FABRICATION.

B) FRONT AND REAR MOUNTING BRACKETS HAVE #0.625" HOLES. BRACKETS TO BE SUPPORTED WITHIN 12" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

C) INTERIOR MOUNTING BRACKET(S) TO BE SUPPORTED WITHIN 36" OF EACH END OF EACH SECTION, WITH A MAXIMUM SPAN OF 72" BETWEEN SUPPORTS.

VERIFY EXHAUST & SUPPLY FANS

A) VERIFY IF THIS HOOD IS EXHAUSTED ON ITS OWN EXHAUST FAN OR IS IT EXHAUSTED ON A COMMON EXHAUST FAN SHARED WITH OTHER HOODS.

B) VERIFY NUMBER OF SUPPLY (MAKE-UP AIR) FANS.

LIGHTING NOTE

THIS LIGHTING IN THIS VENTILATOR IS DESIGNED TO PROVIDE 50 FOOT CANDLES OF LIGHT AT THE COOKING SURFACE, IF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN THE SURROUNDING SPACE.

THESE LED FIXTURES ARE PROVIDED WITH LED SMD CHIPS INTEGRATED INTO THE FIXTURE ASSEMBLY, THEREFORE NO SEPARATE BULBS ARE REQUIRED.

VENTILATOR WIRING NOTES (NON-WATER WASH)

(3) WIRES AND GROUND, FOR DCA CONTROL, IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO SUPPLY VOLTAGE AND FAN ON/OFF SWITCH BY ELECTRICAL CONTRACTOR.

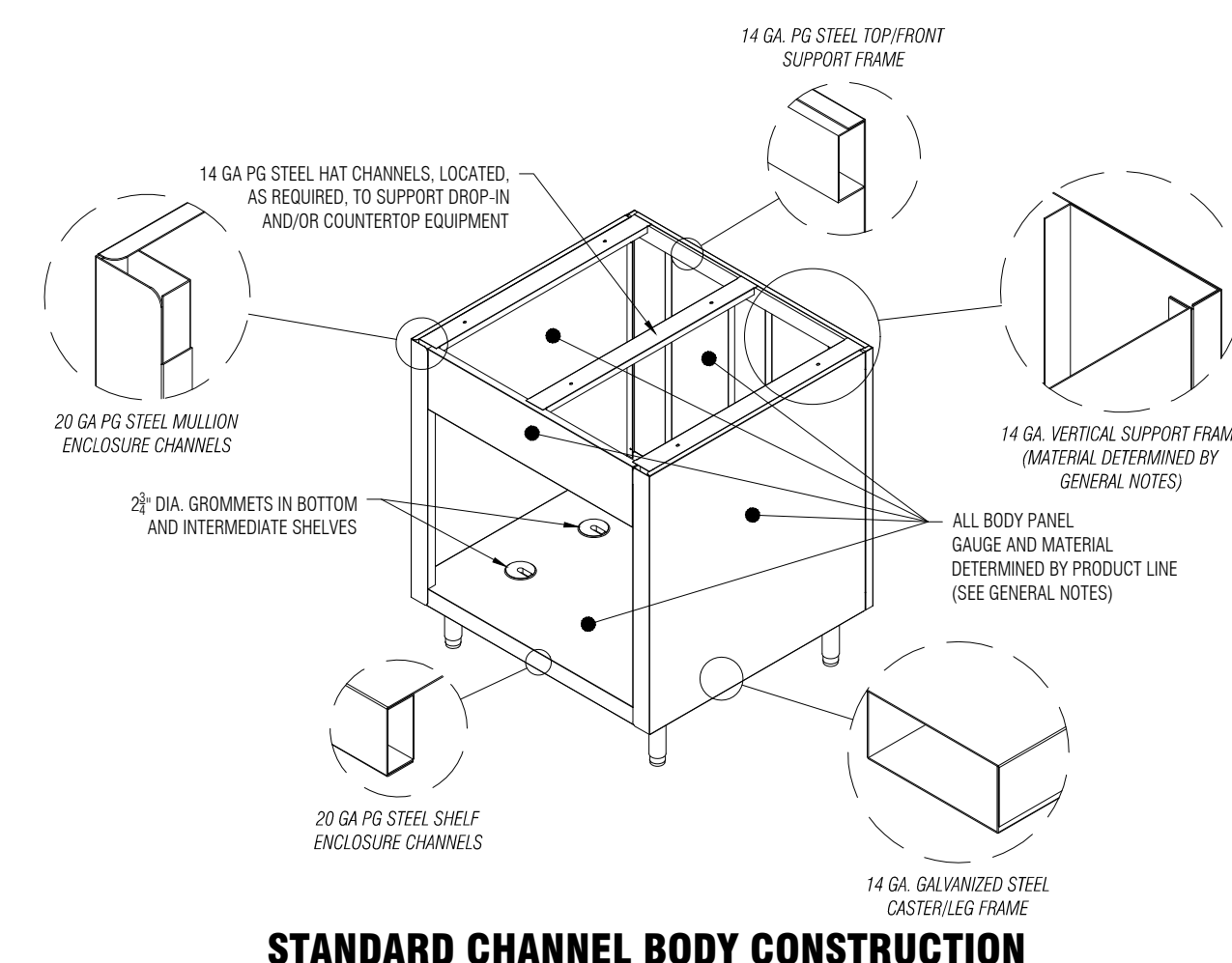
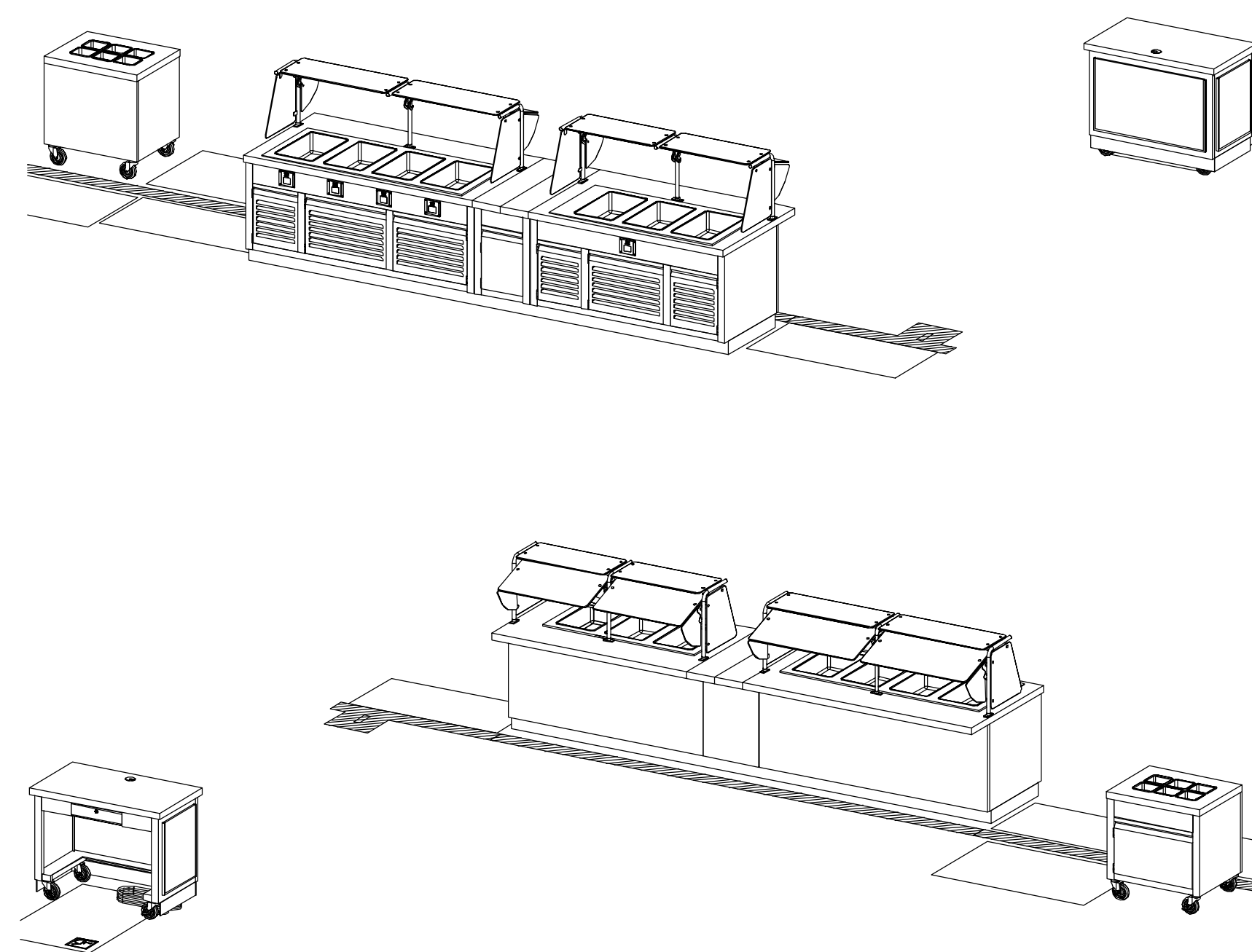
* LIGHT FIXTURES, VAPOR PROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED BY GAYLORD.

(2) WIRES AND GROUND, FOR LIGHTS, IN FLEXIBLE CONDUIT, EXTENDING 6' BEYOND END OF VENTILATOR BY GAYLORD. WIRED TO LIGHT SWITCH BY ELECTRICAL CONTRACTOR.

INTERTEK
 E.T.L. LISTING #103195872CRT-002

GAYLORD DWG. #24-0322
 HOOD #28 MODEL
 #EL-SD-MP-SS-DCA-300-57/TOTAL HOOD
 HANGING WEIGHT: 939 LBS

H EXHAUST HOOD NOTES



SOLID SURFACE TOPS AND TRAY SLIDES

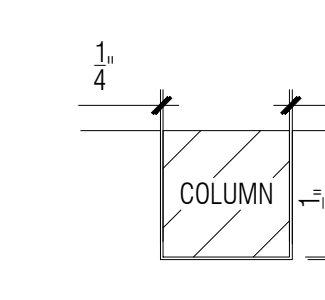
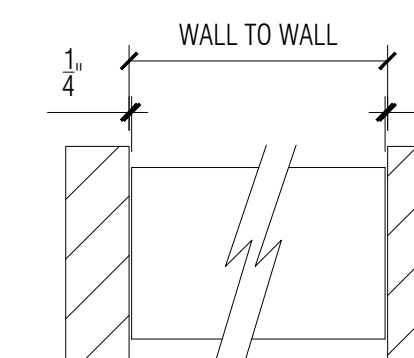
- ALL SOLID SURFACE TOPS AND TRAY SLIDES, WITH FIELD SEAMS, **WILL SHIP LOOSE** WHEN SPANNING MORE THAN ONE UNIT.
- SOLID SURFACE TOPS AND TRAY SLIDES SPECIFIC TO SINGLE UNIT WILL SHIP INSTALLED.
- SOLID SURFACE TOPS AND TRAY SLIDES REQUIRE A **CERTIFIED** INSTALLER, SPECIFIC TO THE BRAND, TO SEAM THE UNITS IN THE FIELD DURING PRODUCT INSTALLATION.

STAINLESS STEEL TOPS AND TRAY SLIDES

- THE MAXIMUM CONTINUOUS STAINLESS STEEL TOP LENGTH IS 144" (12'-0"), BEFORE REQUIRING A BOLTED OR WELDED JOINT.
- THE MAXIMUM CONTINUOUS STAINLESS STEEL TRAY SLIDE LENGTH IS 144" (12'-0"), BEFORE REQUIRING A BOLTED OR WELDED JOINT.
- BOLTED OR WELDED FIELD JOINTS ARE REQUIRED, AT ALL MITERED TRAY SLIDE CORNERS.

ALLOWANCE FOR FIELD CONDITIONS

- FACTORY TO ALLOW 1/4" AT ALL WALLS, COLUMNS, AND PASS THROUGH WINDOWS FOR FIT. (SEE WALL TO WALL AND COLUMN EXAMPLES)



ELECTRICAL

- ALL 15 AMP (NEMA #5-15R) AND 20 AMP (NEMA #5-20R) RECEPTACLES SHALL BE GFCI (GROUND FAULT CIRCUIT INTERRUPTER) TYPE RECEPTACLES PER DUKE MANUFACTURING STANDARD, **UNLESS SPECIFICALLY NOTED OTHERWISE** ON THE DRAWING. (SEE SYMBOL LEGEND)

1 3D VIEW

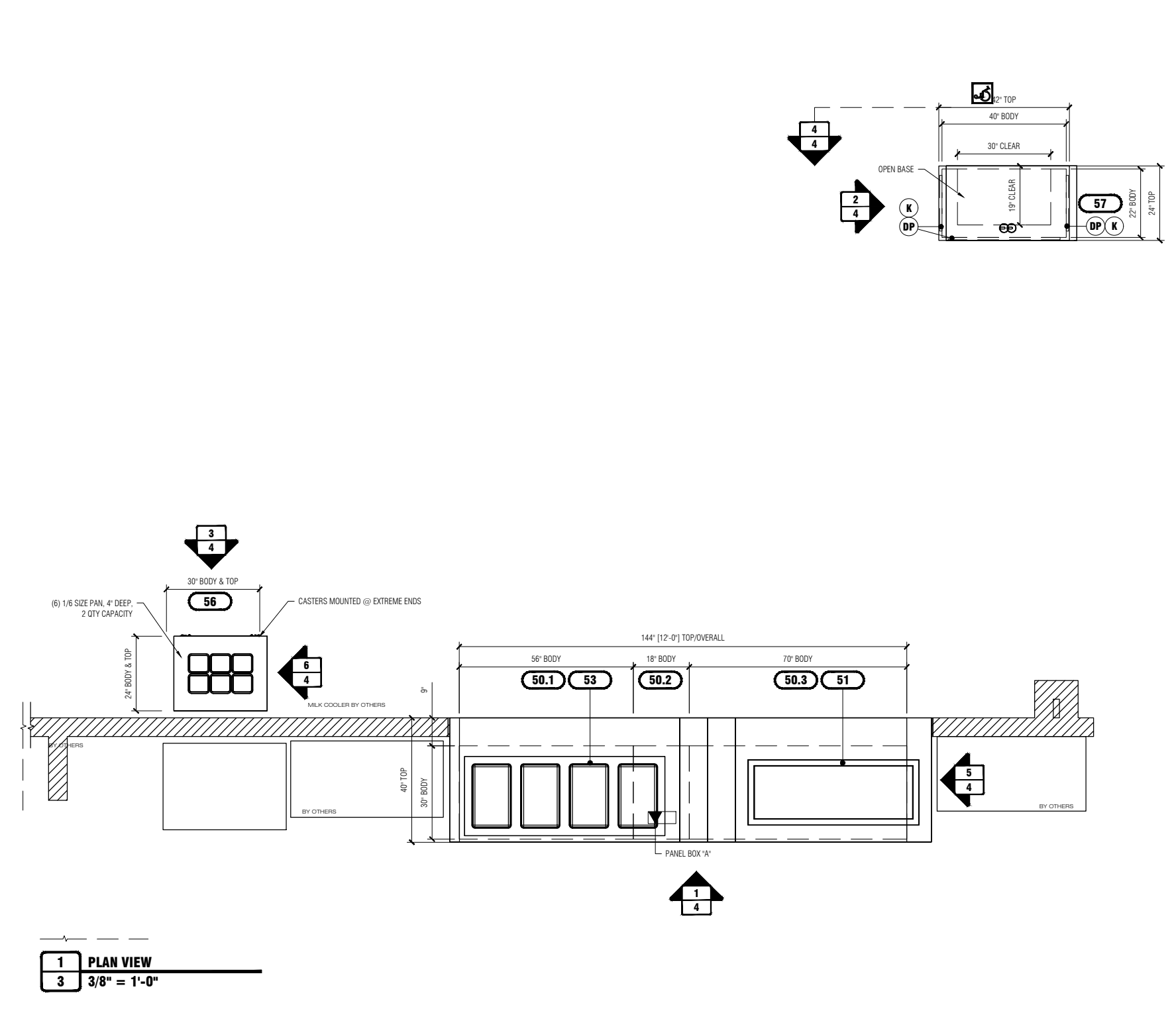
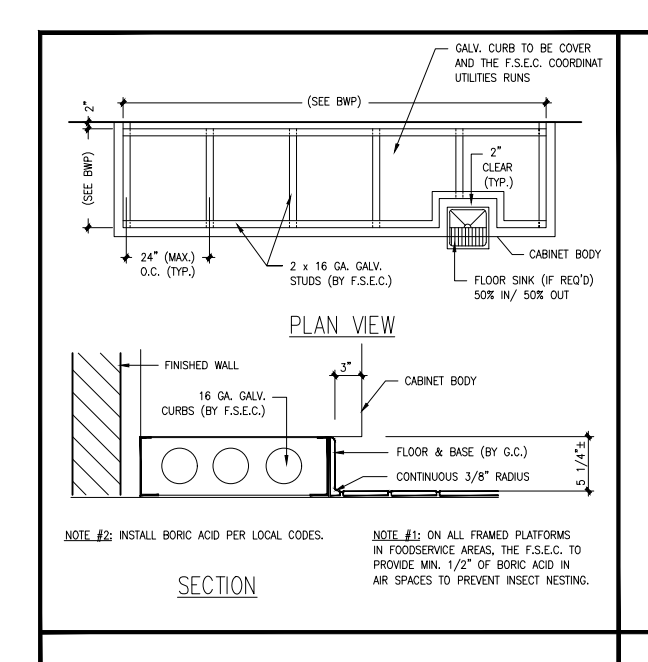
2 STANDARD SERVING SYSTEM PRACTICES

GENERAL NOTES
 THIS DRAWING AND THE INFORMATION AND DATE CONTAINED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF DUKE MANUFACTURING CO. AND MAY NOT BE REPRODUCED OR DISCLOSED FOR ANY PURPOSE, WITHOUT THE WRITTEN PERMISSION OF DUKE MANUFACTURING CO.
THE FOLLOWING MUST BE VERIFIED PRIOR TO CONSTRUCTION
 • NOT FOR CONSTRUCTION PURPOSES. THESE NOTES ARE GENERAL IN NATURE AND NOT APPLICABLE TO ALL ELECTRICAL, VOLTAGE AND PHASE OF EACH HOT FOOD UNIT AND WITHOUT EQUIPMENT IF APPLICABLE
 • ALL ELECTRICAL FIELD MEASUREMENTS MUST BE MADE IN THE FIELD.
THURMADUKE SERVING SYSTEMS
TOPS
 14 GA. STAINLESS STEEL, BENTONED & CONTINUOUS TOPS
BODIES & INTERIORS
 14 GA. FRAME/SUPPORTS, 18 GA. STAINLESS STEEL, ENCLOSURE CHANNELS, BODY PANELS AND INTERIOR SHELVES
DECOR PANELS
 14 GA. STAINLESS STEEL, PAINTED TO COORDINATE INTERNAL FRAME
 VERTICAL FINISHED PANELS SHALL BE 3/4" EXTENSION FROM BODY BACKS COVERED WITH PLASTIC LAMINATE
 *PANELS TO INCLUDE FULLY WELDED AND POLISHED LOW PROFILE STAINLESS STEEL EDGE TRIM ACROSS BOTTOM OF PANELS & VERTICAL CORNERS.
 **NO 2" PROTRUSION DETAIL.
 *PLASTIC LAMINATE GRAIN, IF ANY, WILL BE RUN HORIZONTAL.
 *LAMINATE TO BE... VERIFY
 *LAMINATE OR NUMBER... VERIFY
14 GA. GALVANIZED CURB BASE (FOR ITEMS #50.1-#50.3)
CASTERS
 2" CASTERS WITH SWIVEL POLYURETHANE TIRES, ALL DOWEL WITH WELLS
KICKPLATES
 18 GA. STAINLESS STEEL, BENTONED LOCATED WHERE INDICATED BY SYMBOLS. CUSTOM CONTINUOUS STYLE WITH MAGNETS, NO VERTICAL SCREWS OR BOLTS, AND 2" GAP AT FLOOR
COLD FOOD DRAINS
NSF-7 COLD PAN UNITS
 14 GA. STAINLESS STEEL, COLD PAN UNIT, 14 GA. STAINLESS STEEL, 3" BELOW TOP ON S.S. REMOVABLE BRACKETS & ADAPTER BASE
RECESSED DROP-IN STONE INSERT
 BRAND... VERIFY
BREATHGUARDS (TS-400 SERIES)
 1" DIA. STAINLESS STEEL, TUBING, L-BOSS, SPACERS THROUGH TOP WITH CLEAR GLASS SHELVES, PROTECTORS & PRO ENCLOSURES
 *WHEN USING CLEAR GLASS SHELVES TO BE USED AS A REVISION HANDLE, DUKE MANUFACTURING DOES NOT ACCEPT RESPONSIBILITY FOR GLASS BREAKAGE OCCASIONING LOSS IN THE FIELD DUE TO WEAR.

SYMBOL LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SIMPLEX RECEPTACLE	[Symbol]	DUPLEX GFCI RECEPTACLE (NEMA 5-15R & 5-20R ONLY)	[Symbol]
KICKPLATE LOCATION	[Symbol]	LAMINATE LOCATION	[Symbol]
EQUIPMENT TAG	[Symbol]	FIELD JOINT LOCATION	[Symbol]
VIEW TAG	[Symbol]	VIEW NUMBER	[Symbol]
VIEW ARROWS	[Symbol]	VIEW NUMBER	[Symbol]

4 SYMBOL LEGEND



DUKE EQUIPMENT

Item Tag	Quantity	Model Number	Description	Width	Depth	Height	Weight	NEMA #	Gas Conn	Gas Type
50.1	1	TST-60SS	SOLID TOP UNIT **SPECIAL LENGTH**	-	-	-	-	NEMA#	Gas	Type
50.2	1	TST-18SS	SOLID TOP UNIT	-	-	-	-	NEMA#	Gas	Type
50.3	1	TST-74SS	SOLID TOP UNIT **SPECIAL LENGTH**	-	-	-	-	NEMA#	Gas	Type
51	1	ADI-4MD-N7	4-SECTION NSF-7 COLD PAN DROP-IN UNIT 10" MECHANICALLY COOLED ** NO DRAIN ** W/ 300 SERIES ONE-PIECE PAN, 90 DEG TURN DOWN EDGES	120	1	813.6	6.78	5-15P	Ø	-
52	1	TS422-74	CONTEMPORARY FOOD SHIELD FULL-SERVICE TO SELF-SERVICE **SPECIAL LENGTH**	-	-	-	-	NEMA#	Gas	Type
53	1	HCF-3	HOT/COLD/FREEZE DROP-IN UNIT ** NO DRAINS **	120	1	1920	16.0	5-20P	Ø	-
54	1	TS422-60	CONTEMPORARY FOOD SHIELD FULL-SERVICE TO SELF-SERVICE **SPECIAL LENGTH**	-	-	-	-	NEMA#	Gas	Type
56	1	TST-325S	SOLID TOP UNIT W/ (6) 1/8" SIZE PAN, 4" DEEP, 2 QT CAPACITY **SPECIAL LENGTH & WIDTH** **CATERER MOUNTED @ EXTREMES**	-	-	-	-	NEMA#	Gas	Type
57	1	TST-46SS	SOLID TOP UNIT ** OPEN BASE ** **SPECIAL LENGTH & WIDTH**	120	1	1800	15.0	5-15P	Ø	-

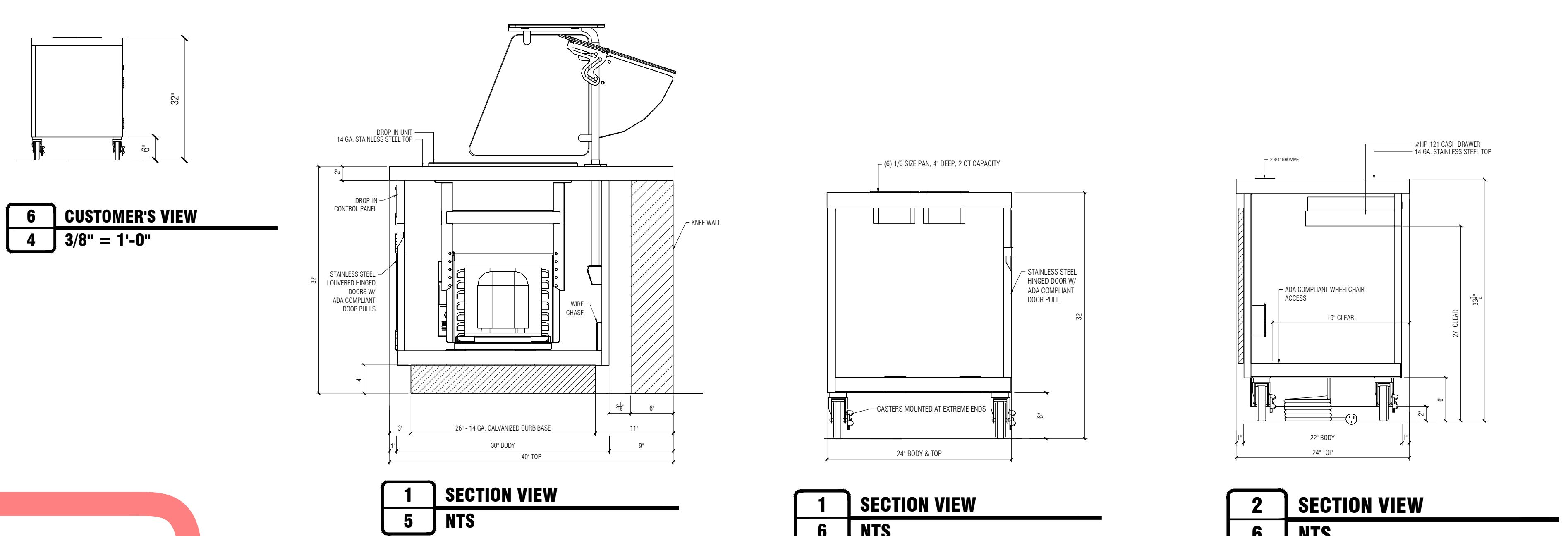
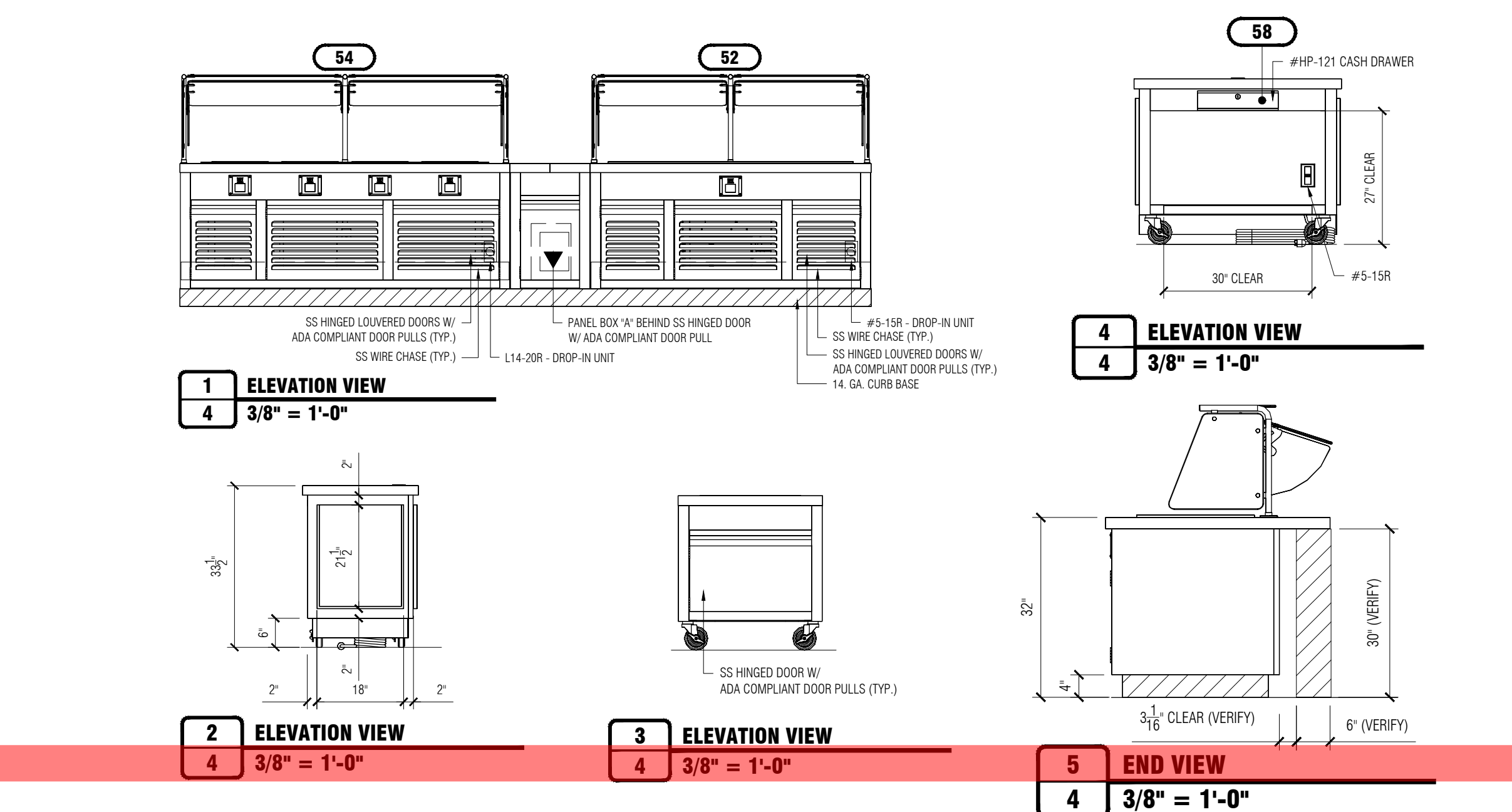
BUY-OUT EQUIPMENT

Item Tag	Quantity	Model Number	Description	Width	Depth	Height	Weight	NEMA #	Provides	Installs
58	1	#HP-121	CASH DRAWER	-	-	-	-	NEMA#	CLARK	CLARK

3 GENERAL NOTES

5 SYMBOL LEGEND

6 PLAN VIEW + SCHEDULE EQUIPMENT SERVERY



7 ELEVATION + SECTION SERVERY EQUIPMENT