

OPERATIONS / PURCHASING TENANT IMPROVEMENT

FOR

SAN JOAQUIN COUNTY OFFICE OF EDUCATION

2707 TRANSWORLD DRIVE

STOCKTON, CALIFORNIA

NOT FOR CONSTRUCTION - 04 NOV 24

REVISIONS	BY



243 N. MAPLE AVENUE, STE B
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DRAWN: MDL

24 x 36

GENERAL NOTES	DEFERRED SUBMITTALS	DESIGN TEAM	PROJECT DESCRIPTION	SHEET INDEX																																																																																																	
<p>1. ON-SITE VERIFICATION OF ALL DIMENSIONS AND DETAILS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR FOR THEIR INDIVIDUAL WORK. THE OWNER OR DESIGNER SHALL BE NOTIFIED IF ANY DISCREPANCIES ARE FOUND PRIOR TO COMMENCING ANY WORK. THE RESPONSIBILITY FOR WORK COMPLETED WITHOUT PROPER NOTIFICATION SHALL BE THAT OF THE INDIVIDUAL CONTRACTOR INVOLVED.</p> <p>2. THE CONTRACT DOCUMENTS INDICATE THE EXTENT AND APPROXIMATE LOCATION OF ELEMENTS OF THE BUILDING AND SITE. ALL CONDITIONS, LOCATIONS, DEVICES, AND ELEMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.</p> <p>3. ALL WORK PERFORMED IN CONNECTION WITH THESE DOCUMENTS SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION.</p> <p>4. NO DRAINAGE ACROSS OR ONTO ADJACENT PROPERTIES.</p> <p>5. PROVIDE 2% SLOPE AWAY FROM BUILDING(S) FOR 5'-0" AT SIDES AND 10'-0" AT FRONT.</p> <p>6. THE TYPICAL DETAILS SHOWN IN THESE PLANS SHALL APPLY IN ALL SIMILAR CASES UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS INDICATED FOR OTHER SIMILAR WORK AND, OR APPLICABLE INDUSTRY PRACTICE.</p> <p>7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF INSTALLATION, INSPECTION, AND FINAL APPROVAL OF ALL UTILITIES.</p> <p>8. VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND METHODS OF CONSTRUCTION PRIOR TO COMMENCING WORK. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES.</p> <p>9. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SEPARATE THE WORK INTO SUBTRADE DIVISIONS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DIVIDE AND ORGANIZE THE WORK AS REQUIRED TO COMPLETE THE WORK AS INTENDED BY THESE DOCUMENTS.</p> <p>10. ALL SITE WORK SHALL COMPLY WITH THE STATE OF CALIFORNIA TITLE 24 ENERGY EFFICIENCY STANDARDS, CBC CHAPTER 11B ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATIONS & COMMERCIAL BUILDINGS AND ALL APPLICABLE CODES, ORDINANCES, AND ZONING REGULATIONS.</p> <p>11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH UTILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION.</p> <p>12. DOOR AND LANDING NOTES: A. MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL BE AS SHOWN IN FIGURES 11B-26A AND 11B-26B. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR. B. THE LEVEL LANDING SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. CBC SECTION 1133B.2.4. EXCEPTION: THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING SHALL BE A MINIMUM OF 44 INCHES WHERE THE DOOR HAS NO CLOSER AND APPROACH TO THE DOOR BY A PERSON IN A WHEELCHAIR CAN BE MADE FROM LATCH SIDE, OR THE DOOR HAS NEITHER LATCH NOR CLOSER AND THE APPROACH CAN BE MADE FROM THE HINGE SIDE. SEE CBC FIGURES 11B-26A AND 11B-26B. C. THE WIDTH OF THE LEVEL LANDING ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. CBC SECTION 1133B.2.4.3</p> <p>13. GENERAL DEMOLITION NOTE: WHENEVER EXISTING FACILITIES OR MATERIALS ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF WORK COVERED BY DRAWINGS AND SPECIFICATIONS, SAID FACILITIES AND MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SAID FACILITIES OR MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE ORIGINAL FACILITIES OR MATERIALS. THE FINISH PRODUCT SHALL COMPLY WITH THE 2019 CALIFORNIA BUILDING CODE AND CITY AND/OR COUNTY MUNICIPAL CODE.</p> <p>14. NO CONSTRUCTION WORK SHALL COMMENCE AT THE SITE BEFORE A BUILDING PERMIT IS FULLY EXECUTED AND AVAILABLE FOR POSTING AT THE JOB SITE.</p> <p>15. PROVIDE CONTINUOUS 16ga x REQUIRED WIDTH (6" MIN.) FLAT BACKING STRAP @ WALLS W/ WALL MOUNTED EQUIPMENT, CASEWORK AND/OR ACCESSORIES - TYPICAL U.O.N.</p> <p>16. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND THE EXISTING FIELD CONDITIONS, AND SHALL REPORT TO THE DESIGN TEAM ANY ERROR, INCONSISTENCY, OR OMISSION. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT APPROVED CONTRACT DOCUMENTS OR WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT LITERATURE, DATA, SAMPLES, OR INSTALLATION INSTRUCTIONS.</p> <p>17. DUE TO THE DIFFICULTY OF ANTICIPATING EVERY AS-BUILT CONDITION WHICH MAY EXIST IN CONNECTION WITH THE EXISTING WORK WHERE ALTERATION OR RECONSTRUCTION WORK IS PROPOSED, IT SHALL BE UNDERSTOOD THAT THE EXTENT OF THESE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE EXISTING FACILITY IN ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES. SHOULD ANY CONDITION BE UNCOVERED OR DEVELOP DURING THE EXECUTION OF THESE DOCUMENTS, WHICH IS NOT DEFINED HEREIN, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE DESIGN TEAM AT ONCE.</p> <p>18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, OR PATCHING THAT MAY BE REQUIRED TO COMPLETE THE INTENT OF THESE CONSTRUCTION DOCUMENTS, TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY. THE CONTRACTOR SHALL PATCH ARCHITECTURAL FINISHES AS NECESSARY TO ACCOMPLISH WORK DEFINED IN STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. PAINT TO MATCH EXISTING IF CONTACT AREA IS NOT TO RECEIVE NEW FINISH. EXISTING FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND ACCEPTED AS CONDITIONS OF THIS SCOPE OF WORK.</p> <p>19. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PG&E FOR ANY NEW SERVICE INSTALLATIONS. THE CONTRACTOR SHALL COORDINATE THE SHUT DOWN OF THE FACILITIES WITH THE OWNER FOR AS MINIMAL DURATION AS POSSIBLE. INTERCEPT THE EXISTING SERVICE CONDUIT, EXTEND IT TO NEW TRANSFORMERS & PAD (TO BE INSTALLED BY CONTRACTOR) AND EXTEND SECONDARY CONDUITS TO NEW SWITCHBOARD. COORDINATE WITH OWNER TO VERIFY LOCATIONS. PROVIDE TRAFFIC BARRIER POSTS PER PG&E REQUIREMENTS.</p> <p>20. CONTRACTOR SHALL FLUSH ALL WATER, SEWER, AND DRAIN LINES PRIOR TO HOOK UP.</p> <p>21. DO NOT SCALE THE DRAWINGS.</p>	<p>FIRE SPRINKLER PLANS:</p> <p>THESE PLANS SHOULD BE PROVIDED BY THE INSTALLING FIRE SPRINKLER CONTRACTOR. THEY MUST COMPLY WITH THE STATE FIRE MARSHALL'S REQUIREMENTS FOR THE STATED OCCUPANCIES & WILL BE REQUIRED TO BE SUBMITTED AND APPROVED BY A THIRD PARTY ENTITY</p>	<p>DESIGNER</p> <p>PROGRESSIVE DESIGNS</p> <p>243 NORTH MAPLE AVENUE, STE. B P.O. BOX 477 MANTECA, CALIFORNIA 95336 PHONE: (209) 239-1229 FAX: (209) 239-4880</p> <p>CONTACT: MICHAEL LOUREIRO</p> <p>ELECTRICAL</p> <p>BORRELLI & ASSOCIATES, INC</p> <p>2032 N. GATEWAY BOULEVARD FRESNO, CALIFORNIA 93727 PHONE: (559) 233-4138</p> <p>CONTACT: JOHN BORRELLI, P.E.</p> <p>CLIENT</p> <p>SAN JOAQUIN COUNTY OFFICE OF EDUCATION</p> <p>2901 ARCH-AIRPORT ROAD STOCKTON, CALIFORNIA PHONE: (209) 468-4800</p>	<p>2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA</p> <p>A.P.N.: 179-24-016 ACRES: 4.5</p> <p>TYPE OF CONSTRUCTION: III-B (EXISTING - NO CHANGE) OCCUPANCY GROUP: A, S, S-2 NUMBER OF STORIES: TWO FIRE SPRINKLERS: YES</p> <p>ZONING: GENERAL INDUSTRIAL (IG) GENERAL PLAN DESIGNATION: ADMINISTRATIVE PROFESSIONAL</p> <p>BUILDING CODE: THIS PROJECT TO COMPLY WITH 2022 CBC, CPC, CMC, CFC, CEC, CEES & 2022 CGBS (CALIFORNIA GREEN BUILDING STANDARDS)</p> <p>WRITTEN STATEMENT: THIS PROJECT IS A NON-STRUCTURAL TENANT IMPROVEMENT FOR THE SAN JOAQUIN COUNTY OFFICE OF EDUCATION'S OPERATIONS OFFICE AREA. SCOPE OF WORK TO INCLUDE NEW PARTITION WALLS, RELOCATION & ADDITION OF ELECTRICAL, MECHANICAL, PLUMBING AND FIRE SPRINKLERS.</p> <p>PROJECT AREA:</p> <table border="1"> <tr><td>OFFICE AREA (EXISTING):</td><td>1,554 SQ. FT.</td></tr> <tr><td>WAREHOUSE (EXISTING):</td><td>2,153 SQ. FT.</td></tr> <tr><td>ELECTRICAL (EXISTING):</td><td>184 SQ. FT.</td></tr> <tr><td>TOTAL EXISTING:</td><td>3,891 SQ. FT.</td></tr> <tr><td>OFFICE (REMODELED):</td><td>1,415 SQ. FT.</td></tr> <tr><td>OFFICE (NEW):</td><td>957 SQ. FT.</td></tr> <tr><td>STORAGE (NEW):</td><td>2,724 SQ. FT.</td></tr> <tr><td>TOTAL NEW:</td><td>3,681 SQ. FT.</td></tr> </table>	OFFICE AREA (EXISTING):	1,554 SQ. FT.	WAREHOUSE (EXISTING):	2,153 SQ. FT.	ELECTRICAL (EXISTING):	184 SQ. FT.	TOTAL EXISTING:	3,891 SQ. FT.	OFFICE (REMODELED):	1,415 SQ. FT.	OFFICE (NEW):	957 SQ. FT.	STORAGE (NEW):	2,724 SQ. FT.	TOTAL NEW:	3,681 SQ. 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TITLE SHEET AND PROJECT INFORMATION
S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
2707 TRANSWORLD DRIVE
STOCKTON, CA.

DATE	15 OCT 24
SCALE	AS NOTED
JOB	658-23-15
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DIVISION 1: GENERAL REQUIREMENTS

- 1.01 DEFINITIONS.
A. TENANT/OWNER: INTENDED USER OF COMPLETED PROJECT, & PARTY MAINTAINING RIGHT OF APPROVAL OF FACILITY & SITE PLANNING, OF PRODUCTS & MATERIALS INCLUDED IN THE WORK, & ALL FINISHED WORK.
B. GENERAL CONTRACTOR, CONTRACTOR, SUBCONTRACTOR: GENERAL CONTRACTOR WHO IS THE PRIMARY LEGAL PARTY TO THE CONTRACT FOR CONSTRUCTION WITH OWNER...
1.02 WARRANTY & GUARANTEE OF WORK
A. THE GC WARRANTS TO TJO THAT ALL MATERIALS & EQUIPMENT FURNISHED UNDER ALL PARTS OF THE SPECIFICATIONS WILL BE NEW, UNLESS OTHERWISE SPECIFIED...
1.03 SUPERVISION OF CONSTRUCTION PROCEDURES
A. THE GC SHALL SUPERVISE & DIRECT THE WORK, USING HIS BEST SKILL & ATTENTION.
1.04 LABOR & MATERIALS
A. UNLESS OTHERWISE PROVIDED, THE GC SHALL PROVIDE & PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT & MACHINERY...
1.05 NOTICES
A. THE GC SHALL GIVE ALL NOTICES & COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS & LAWFUL ORDERS...
1.06 THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH ALL LATEST APPLICABLE CODES, ORDINANCES, AND REGULATIONS...
1.07 ALL PHASES OF THE WORK OF THE PROJECT SHALL BE SCHEDULED AND SEQUENCED PRIOR TO THE BEGINNING OF ANY WORK...
1.08 THE CONTRACTOR SHALL BE RESTRICTED TO THE USE AND AREA OF THE SITE AS DESIGNATED BY THE OWNER...
1.09 THE CONTRACTOR IS REMINDED THAT THE OWNER'S NORMAL BUSINESS OPERATIONS MAY BE CONDUCTED WHILE THE PROJECT IS BEING CONSTRUCTED...
1.10 SUBMITTALS
A. SUBMITTALS SHALL BE COMPLETE IN EVERY RESPECT, BOUND IN SETS, & SHALL BE ACCOMPANIED BY A LETTER OF TRANSMITTAL LISTING THE NUMBERS & DATES OF ALL ITEMS SUBMITTED...
1.11 SUBSTITUTIONS
WHEN THE TERM "OR APPROVED EQUAL" IS USED IN THE CONSTRUCTION DOCUMENTS, THE DEFINITION SHALL BE IN KEEPING WITH THE FOLLOWING INTENDED DEFINITION...

DIVISION 2: EXISTING CONDITIONS

SECTION 02050 DEMOLITION

- 1.01 ALL MATERIALS INDICATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM OUTSIDE OF THE PROJECT SITE.
1.02 ERCT AND MAINTAIN TEMPORARY BRACING, SHORING, LIGHTS, BARRICADES, WARNING SIGNS, ETC. TO PROTECT THE PUBLIC, OWNER'S EMPLOYEES, EXISTING CONSTRUCTION TO REMAIN, ETC.
1.03 COMPLETELY REMOVE ALL UNUSED MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS IN ATTIC THAT WILL NOT BE USED...

DIVISION 3: CONCRETE

NOT APPLICABLE

DIVISION 4: MASONRY

NOT APPLICABLE

DIVISION 5: METALS

NOT APPLICABLE

DIVISION 6: WOOD, PLASTICS, AND COMPOSITES

SECTION 06100 ROUGH CARPENTRY

- 1.01 MISC. WOOD FRAMING SHALL BE MIN. NO. 2 D.F. FOR 2x FRAMING, & NO. 1 D.F. FOR POSTS & HEADERS

SECTION 06400 CASEWORK

- 1.01 ALL CASEWORK SHALL MEET THE MINIMUM SPECIFICATIONS OF WOODWORK INSTITUTE OF CALIFORNIA (WIC) "MANUAL OF MILLWORK", LATEST EDITION, CUSTOM GRADE, WITH REVISIONS FOR CONSTRUCTION DETAILS.
1.02 SUBMIT TO THE DESIGNER FOR REVIEW FULLY DETAILED SHOP DRAWINGS SHOWING FABRICATION, INSTALLATION, AND ANCHORAGE DETAILS.

DIVISION 7: THERMAL AND MOISTURE PROTECTION

SECTION 07210 BUILDING INSULATION

- 1.01 AT ALL NEW INTERIOR CONDITIONED TO UNCONDITIONED AREA DEMISING WALLS & RESTROOM WALLS: FIBERGLASS, UNFACED, BLANKET FORM, TYPE I PER ASTM C665 AND ASTM E136, 3 1/2" THICK FOR FULL HEIGHT OF WALL.
1.02 REPLACE IN-KIND ANY EXISTING DAMAGED BUILDING SHELL THERMAL BATT INSULATION TO RESTORE ORIGINAL CONDITIONS.
1.03 PROVIDE FLAME SPREAD CLASSIFICATION AND SMOKE DENSITY PER SEC. 707.

SECTION 07510 BUILT-UP BITUMINOUS ROOFING

- 1.01 SUBMIT MANUFACTURER'S LITERATURE DESCRIBING BUILT-UP BITUMINOUS ROOFING SYSTEM. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS & CHAPTER 15 OF THE CBC REGARDING DELIVERY, STORAGE, HANDLING, PROJECT CONDITIONS, EXAMINATION, APPLICATION, FIELD QUALITY CONTROL, CLEANING, ETC.
1.02 PROVIDE BUILT-UP ROOF CRICKETS AT SIDE OF NEW MECH. UNIT CURBS TO SHED WATER IN DIRECTION OF ROOF SLOPE.
1.03 MATERIALS FOR BUILT-UP BITUMINOUS ROOFING SYSTEM SHALL BE A CLASS 'A' FIRE HAZARD CLASSIFICATION...

SECTION 075423 SINGLE-PLY ROOFING

- 1.01 SUBMIT MANUFACTURER'S LITERATURE DESCRIBING SINGLE-PLY ROOFING SYSTEM. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS & CHAPTER 15 OF THE CBC REGARDING DELIVERY, STORAGE, HANDLING, PROJECT CONDITIONS, EXAMINATION, APPLICATION, FIELD QUALITY CONTROL, CLEANING, ETC.
1.02 SINGLE-PLY ROOFING MATERIAL SHALL BE FABRIC-REINFORCED THERMOPLASTIC POLYOLEFIN (TPO) CONFORMING TO ASTM D 6878 WITH A MINIMUM THICKNESS OF 60 MILS, NOMINAL.
1.03 MATERIALS FOR SINGLE-PLY ROOFING SYSTEM SHALL BE A CLASS 'A' FIRE HAZARD CLASSIFICATION...
1.04 INSTALLATION CAN BE EITHER MECHANICALLY FASTENED OR FULLY ADHERED TO MATCH EXISTING CONDITIONS...

SECTION 07600 FLASHING & SHEET METAL

- 1.01 GALVANIZED SHEET METAL SHALL BE FURNISHED IN MINIMUM GAUGES AS SHOWN OR REQUIRED. COORDINATE INSTALLATION OF ALL SHEET METAL WORK WITH OTHER TRADES TO PROVIDE A WATERPROOF CONDITION AT NEW WORK AREAS.

SECTION 07900 CAULKING AND SEALANTS

- 1.01 CONTRACTOR SHALL PROVIDE SEALANTS AT ALL APPLICABLE PORTIONS OF INTERIOR AND EXTERIOR CONDITIONS OF NEW WORK TO PROVIDE A BARRIER AGAINST THE PENETRATION OF AIR, SMOKE, HEAT, OR MOISTURE AT JOINTS BETWEEN ELEMENTS WHERE SEALANTS ARE ESSENTIAL TO THE CONTINUED INTEGRITY OF SUCH A BARRIER...

DIVISION 8: OPENINGS

- 1.01 STEEL DOOR & WINDOW FRAMES SHALL BE MANUFACTURED AND INSTALLED TO MEET THE MINIMUM RECOMMENDED SPECIFICATIONS OF THE STEEL DOOR INSTITUTES (SDI) STANDARDS FOR STEEL DOORS AND FRAMES SDI-100 AND SDI-105.
1.02 STEEL FRAMES USED IN PART OF A FIRE RATED ASSEMBLY SHALL BEAR AN APPROVED TESTING AGENCY LABEL.
1.03 FRAME MATERIAL:
A. COLD-ROLLED STEEL, FOR INTERIOR FRAMES IN NORMAL ATMOSPHERIC EXPOSURES.
B. ELECTRO GALVANIZED STEEL FOR ALL FRAMES USED IN THE FOLLOWING LOCATIONS:
1. EXTERIOR LOCATIONS
2. PUBLIC AND PRIVATE RESTROOMS
1.04 FRAME UNITS SHALL BE PRE-FINISHED WITH FACTORY APPLIED IMPACT RESISTANT, POLYESTER BAKED ENAMEL FINISH OR OPTIONAL ELECTROSTATIC APPLIED WATER BASED PAINT SYSTEM.
2.01 ACCEPTABLE MANUFACTURERS
A. TIMELY INDUSTRIES, A DIVISION OF SDI INDUSTRIES, INC.
B. PROVIDE ALL INTERIOR FRAMES FOR THE PROJECT FROM SAME MANUFACTURER.
C. SUBSTITUTIONS: REFER TO SECTION 1.11.
2.02 FRAME PROFILES
1. "S" SERIES, 0.9mm (20 GAGE) THICK, STANDARD INTERIOR FRAMES
2. "C" SERIES, 1.2mm (18 GAGE) THICK, NON STANDARD JAMB DEPTHS
3. "CK" SERIES, 1.2mm (18 GAGE) THICK, WITH KERF FOR DOOR SEAL/GASKET
2.03 CASING
1. STANDARD STEEL - TA-8 WITH 1/4 INCH REVEAL. FIT FACTORY ASSEMBLED UNITS WITH MITERGARD CORNER ALIGNMENT CLIPS.

SECTION 08200 FLUSH WOOD DOORS

- 1.01 THIS SECTION INCLUDES SOLID-CORE FLUSH WOOD DOORS WITH WOOD VENEER AND PAINT GRADE FACES. FURNISH ALL MATERIALS AND LABOR NECESSARY TO COMPLETE INSTALLATION PER THE CONTRACT DOCUMENTS.
1.02 PRIOR TO ORDERING, PREPARE SHOP DRAWINGS AND SUBMIT TO DESIGN TEAM IN ACCORDANCE WITH SECTION 1.10. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS REGARDING DELIVERY, STORAGE, HANDLING, PROJECT CONDITIONS, EXAMINATION, APPLICATION, FIELD QUALITY CONTROL, INSTALLATION, CLEANING, ETC.
1.03 ALL FIRE-RATED DOORS SHALL BEAR AN APPROVED TESTING AGENCY LABEL.
2.01 ACCEPTABLE MANUFACTURERS
A. LOCAL SUPPLIER, PER GENERAL CONTRACTOR. SUBMIT MANUFACTURER'S LITERATURE FOR APPROVAL IN ACCORDANCE WITH SECTION 1.10.
2.02 DOOR FINISH AND INSTALLATION SHALL MATCH AS CLOSELY AS POSSIBLE EXISTING DOORS AS VERIFIED IN THE FIELD.

SECTION 08700 HARDWARE

- 1.01 ALL DOOR HARDWARE SHALL BE INSTALLED BY THE GENERAL CONTRACTOR. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
1.02 TYPICAL HARDWARE FINISH SHALL MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING DOOR HARDWARE AS VERIFIED IN THE FIELD, OR AS SELECTED BY DESIGNER / OWNER. REVIEW WITH DESIGNER ALL FUNCTION & KEYING REQUIREMENTS PRIOR TO ORDERING HARDWARE.
1.03 MAX. OPERATING PRESSURE (INT/EXT) = 5 LBS MAX. ; 15 LBS MAX. @ OFFICE DOORS AS ALLOWED BY FIRE MARSHALL.

DIVISION 9: FINISHES

SECTION 09250 GYPSUM BOARD

- 1.01 ALL GYPSUM BOARD SHALL BE INSTALLED AND FINISH TO MEET THE MINIMUM RECOMMENDED SPECIFICATIONS OF ASTM C 840, STANDARD SPECIFICATION FOR APPLICATION AND FINISH OF GYPSUM BOARD, AND GYPSUM ASSOCIATION GA 216, APPLICATION AND FINISHING OF GYPSUM BOARD, LATEST EDITIONS. ALL NEW GYPSUM BOARD SHALL BE 5/8" GYPSUM BOARD, WATER-RESISTANT TYPE AT WALLS SUBJECT TO WATER SPLASH. PROVIDE FASTENERS, METAL ACCESSORIES, JOINT REINFORCING, ETC. AS REQUIRED.

SECTION 09600 FLOORING

- 1.01 RESILIENT FLOORING SHALL (SLIP RESISTENT, STABLE, FIRM) BE AS SELECTED & APPROVED BY THE BUILDING OWNER. PROVIDE ALL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION TO EXISTING FLOOR SUBSTRATE. CONSULT WITH FLOORING MANUFACTURER TO OBTAIN RECOMMENDATIONS ON INSTALLATIONS OVER EXISTING CONCRETE SLABS ON GRADE. DO NOT BEGIN INSTALLATION OF RESILIENT FLOORING UNTIL UNDERLYING PREPARATORY WORK TO EXISTING SLAB IS COMPLETE.
1.02 CARPETING SHALL BE AS SELECTED & APPROVED BY THE BUILDING OWNER. CONTRACTOR SHALL INSTALL COMPLETE WITH ALL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION TO MEET NEW AND EXISTING SUBSTRATES, TRANSITIONS, AND TERMINATIONS. EXAMINE AND REPAIR ALL SURFACES AS REQUIRED PRIOR TO LAYING OF FLOOR.
1124B.2: CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT, CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50% SLOPE)
1124B.3: IF CARPET OR CARPET TILE IS USED ON FLOOR SURFACE, THEN IT SHALL BE SECURELY ATTACHED, HAVE A FIRM CUSHION PAD OR BACKING OR NO CUSHION OR PAD; OR LEVEL-CUT/JUNCT PILE TEXTURE. MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACE AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE.

SECTION 09900 PAINTING

- 1.01 THIS SECTION DESCRIBES THE REQUIREMENTS FOR MATERIALS AND APPLICATION OF PAINTS AND FINISHES FOR SURFACES USUALLY APPLIED AT THE JOB SITE EXCEPT THOSE SPECIFICALLY EXCLUDED UNDER PARAGRAPH 'B' BELOW.
A. WORK INCLUDES, BUT IS NOT LIMITED TO PAINTING OF THE FOLLOWING ITEMS, MATERIALS, AND SPACES:
1. ALL NEW EXPOSED SURFACES UNLESS OTHERWISE NOTED BELOW. ALL EXISTING EXPOSED SURFACES UNLESS NOTED OTHERWISE.
2. EXPOSED MECHANICAL AND ELECTRICAL ITEMS IN INTERIOR FINISHED AREAS, SUCH AS PIPING, CONDUIT, PANELBOARDS, AND OTHER SIMILAR ITEMS INCLUDING THEIR SUPPORTS.
B. WORK DOES NOT INCLUDE PAINTING THE FOLLOWING ITEMS, MATERIALS, OR SPACES:
1. MECHANICALLY FINISHED NONFERROUS METAL, FACTORY FINISHED EQUIPMENT AND MATERIALS, INTERIOR SPACES SPECIFICALLY NOTED AS UNPAINTED, & EXTERIOR EQUIPMENT.
1.02 CAREFULLY EXAMINE, PREPARE, CLEAN, REPAIR, ETC. ALL SURFACES TO BE PAINTED. DO NOT PAINT SURFACES UNTIL IMPURITIES ARE REMOVED, DEFICIENCIES CORRECTED, AND PREPARATION AS RECOMMENDED BY PAINT MANUFACTURER IS COMPLETE.
1.03 PAINTING SYSTEMS
A. GYPSUM BOARD CEILINGS:
1. DRYWALL PREP COAT
2. CEILING TEXTURE - ORANGE PEEL
1ST COAT LATEX PRIMER
2ND COAT LATEX ENAMEL
B. GYPSUM BOARD WALLS:
1. DRYWALL PREP COAT
2. WALL TEXTURE - ORANGE PEEL
1ST COAT LATEX PRIMER
2ND COAT LATEX ENAMEL
C. FERROUS METAL MECHANICAL & ELECT. ITEMS:
1. 1ST COAT LATEX METAL PRIMER
2. 2ND COAT ALKYD ENAMEL
3. 3RD COAT ALKYD ENAMEL
D. WOOD, TRANSPARENT (NON-FACTORY APPLIED):
1. 1ST COAT WOOD FILLER
2. 2ND COAT FULL STAIN, TRANSPARENT
3. 3RD COAT PEN-THANE GLOSS (THINNED 10%)
4. 4TH COAT PEN-THANE SATIN

DIVISIONS 10 - 14:

REFER TO ARCHITECTURAL DRAWINGS WHERE APPLICABLE

DIVISION 21: FIRE SUPPRESSION

GENERAL CONTRACTOR SHALL SUBMIT MANUFACTURER'S LITERATURE, SPECIFICATIONS, AND SHOP DRAWINGS FOR AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM MODIFICATION FOR REVIEW BY DESIGN TEAM PRIOR TO START OF WORK. SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH SECTION 1.10.

DIVISION 22: PLUMBING

REFER TO PLUMBING ENGINEERS DRAWINGS

DIVISION 23: HVAC

REFER TO MECHANICAL ENGINEERS DRAWINGS

DIVISION 26: ELECTRICAL

REFER TO ELECTRICAL ENGINEERS DRAWINGS

FILE NAME

DRAWN: MDL

24 x 36

Table with 2 columns: REVISIONS, BY



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ARCHITECTURAL SPECIFICATIONS
S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
2707 TRANSWORLD DRIVE
STOCKTON, CA.

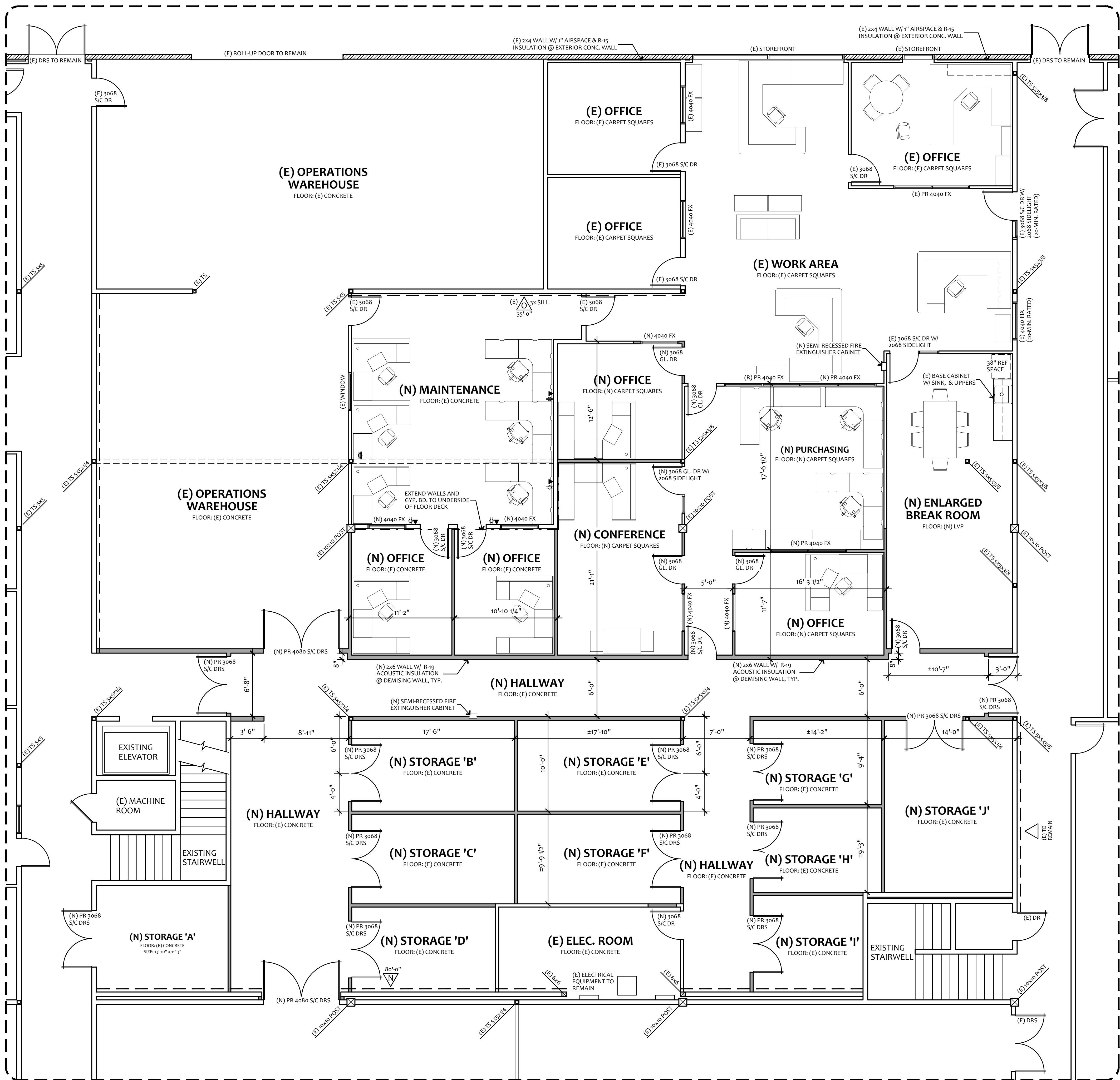
DATE 15 OCT 24

SCALE AS NOTED

JOB 888-23-24

A0

BID SET - NOT FOR CONSTRUCTION - 04 NOV 24



LEGEND

	EXISTING STUD WALL TO REMAIN
	EXISTING CONCRETE WALL TO REMAIN
	NEW 2x D.F. NO. 2 STUDS @ 16" O.C.
(E)	EXISTING TO REMAIN
(R)	EXISTING RELOCATED
(N)	NEW

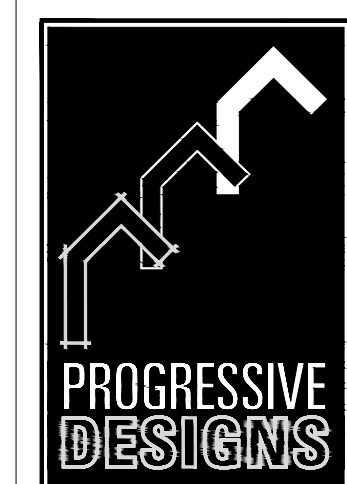
NOTE:
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

NOTE:
OWNER SHALL SELECT PAINT AND FLOORING WITH CONTRACTOR. ALL OTHER MATERIALS SHALL MATCH EXISTING.

- FLOOR PLAN NOTES:**
- FIELD VERIFY EXISTING OPENINGS FOR ALL WINDOWS AND DOORS PRIOR TO FABRICATION AND/OR ORDERING.
 - ALL GLASS WITHIN 18" OF FINISHED FLOOR AND WITHIN A 24" ARC OF ANY DOOR SHALL HAVE TEMPERED GLAZING.
 - ALL NEW DOORS SHALL MATCH EXISTING AS CLOSE AS POSSIBLE AS VERIFIED IN THE FIELD, INCLUDING NEW DOOR HARDWARE AND FRAMES.
 - NEW WALLS SHALL BE 2x4 DOUGLAS FIR NO. 2 OR BETTER WOOD STUDS @ 16" O.C. TO A HEIGHT 6" ABOVE SUSPENDED CEILING. BRACE WALLS TO STRUCTURE ABOVE W/ 2x BRACES @ 48" O.C. REQUIRED, ALTERNATE SIDES. (SEE DETAIL 3/A4)
 - NEW WALLS SHALL BE FINISHED WITH GYPSUM WALL BOARD WITH TAPE, TEXTURE, AND PAINT TO MATCH EXISTING AS VERIFIED IN THE FIELD. CONSULT OWNER FOR PAINT COLOR.

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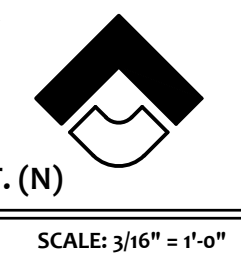


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NEW FLOOR PLAN
 S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE
 STOCKTON, CA.

NEW FLOOR PLAN

PROJECT AREA: 2,408 SQ. FT. (E) / 1,527 SQ. FT. (N)



DATE	15 OCT 24
SCALE	3/16" = 1'-0"
JOB	888-23-24
A2	



LEGEND

	EXISTING STUD WALL TO REMAIN
	EXISTING CONCRETE WALL TO REMAIN
	NEW 2x D.F. NO. 2 STUDS @ 16" O.C.
(E)	EXISTING TO REMAIN
(R)	EXISTING RELOCATED
(N)	NEW

NOTE:
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

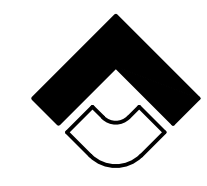
CEILING FIXTURES LEGEND

SYMBOL	DESCRIPTION
	2' x 4' LED TROFFER LIGHT FIXTURE
	1' x 4' LED TROFFER LIGHT FIXTURE
	MECHANICAL SUPPLY DIFFUSER
	MECHANICAL RETURN VENT
	CEILING EXHAUST FAN

- REFLECTED CEILING PLAN NOTES:**
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES.
 - ALL MECHANICAL, ELECTRICAL, & SUSPENDED CEILING ARE NEW, U.O.N.
 - ALL MECHANICAL SUPPLIES, RETURNS, DUCTWORK, ETC. SHOWN FOR REFERENCE ONLY. REFER TO NEW MECHANICAL PLANS BY OTHERS FOR MORE INFORMATION.
 - CONTRACTOR SHALL COORDINATE THE RELOCATION / ADDITION OF FIRE SPRINKLERS PER THE NEW LAYOUT WITH APPROPRIATE SUBCONTRACTOR(S).
 - REFER TO DETAILS 3/A4 - 7/A4 FOR SUSPENDED CEILING DETAILS & LIGHT SUPPORT DETAILS.
 - NEW SUSPENDED CEILING SHALL MEET THE FOLLOWING REQUIREMENTS:
 - SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH PROVISIONS OF ASTM C 635 AND ASTM C 636 AND ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - ASCE STANDARD 7-05, 15.5.6.2.2 SEISMIC DESIGN CATEGORIES D THROUGH F: SUSPENDED CEILING IN SEISMIC DESIGN CATEGORIES D, E, AND F SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C636 AND ASTM C636, AND THE CISCA AS MODIFIED BY THE FOLLOWING:
 - A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.
 - THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2.0 IN. IN EACH ORTHOGONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE 0.75 IN. CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.
 - FOR CEILING AREAS EXCEEDING 1,000 SQ. FT., HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. THE TRIBUTARY AREAS OF THE HORIZONTAL RESTRAINTS SHALL BE APPROXIMATELY EQUAL.

EXCEPTION: RIGID BRACES ARE PERMITTED TO BE USED INSTEAD OF DIAGONAL SPLAY WIRES. BRACES AND ATTACHMENTS TO THE STRUCTURAL SYSTEM ABOVE SHALL BE ADEQUATE TO LIMIT THE RELATIVE LATERAL DEFLECTIONS AT A POINT ATTACHMENT OF CEILING GRID TO LESS THAN 0.25 IN. FOR THE LOADS PRESCRIBED IN SECTION 19.3.1.
 - FOR CEILING AREAS EXCEEDING 2,500 SQ. FT. A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 SQ. FT. SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES IN ACCORDANCE WITH ITEM 4 AND HORIZONTAL RESTRAINTS IN ACCORDANCE WITH ITEM 5.
 - EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE 2.0 IN. OVERSIZE RING, SLEEVE, OR ADAPTOR THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1.0 IN. IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1.0 IN. OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.
 - CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.
 - CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.
 - SUSPENDED CEILING SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS OF SECTION 19A.1.3.9 OF THIS STANDARD.
 - PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF SUSPENDED CEILING GRIDS ASSIGNED TO SEISMIC CATEGORIES D, E, OR F IS PERMITTED.
 - LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED PER 2022 CBC SECTIONS 803.9.1.1 AND 1614A.1.2. REQUIRED WHERE SUSPENDED CEILING LOADS ARE LESS THAN 5# PER FT. AND NOT SUPPORTING INTERIOR PARTITIONS. CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED AT 12" O.C. IN BOTH DIRECTIONS, WITH THE FIRST POINT WITHIN 4'-0" FROM EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

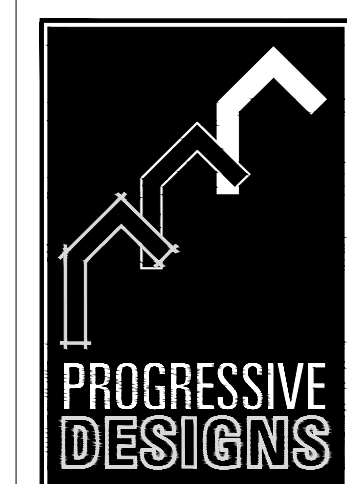
NEW REFLECTED CEILING PLAN



SCALE: 3/16" = 1'-0"

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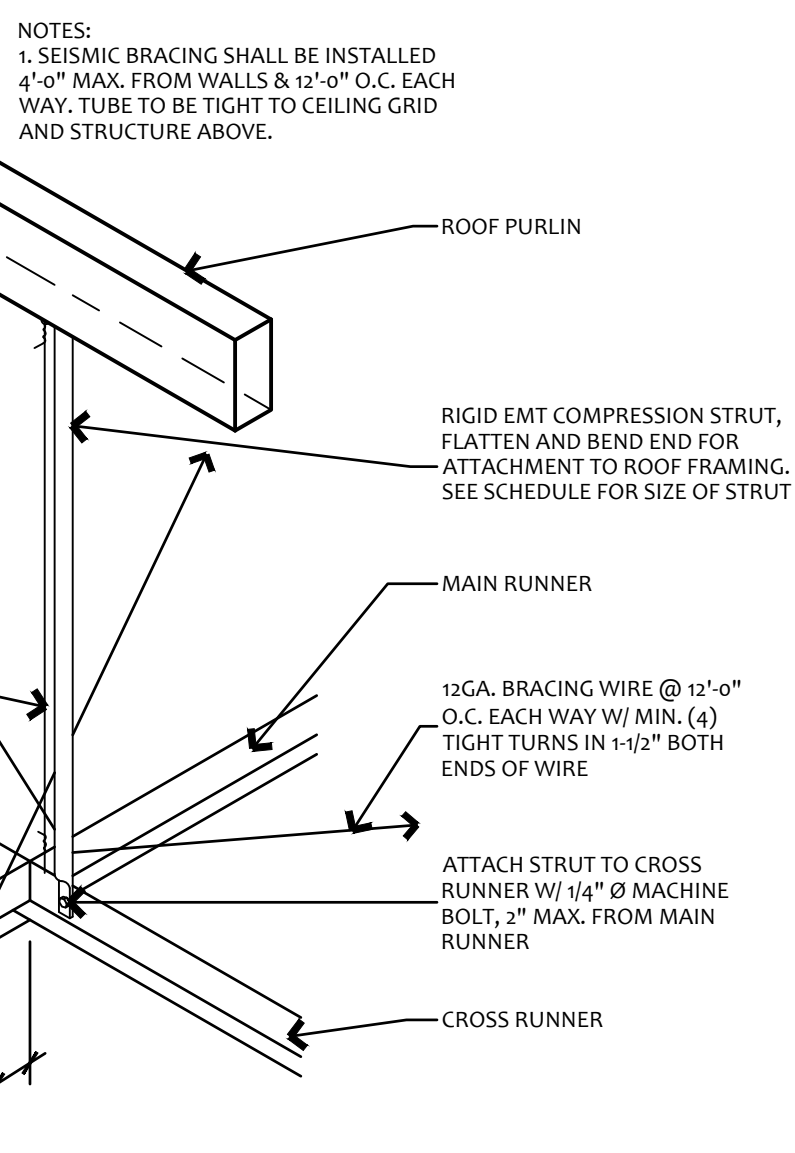
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 NEW REFLECTED CEILING PLAN
 S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA

DATE: 01 NOV 24
SCALE: 3/16" = 1'-0"
JOB: 888-23-24

A3

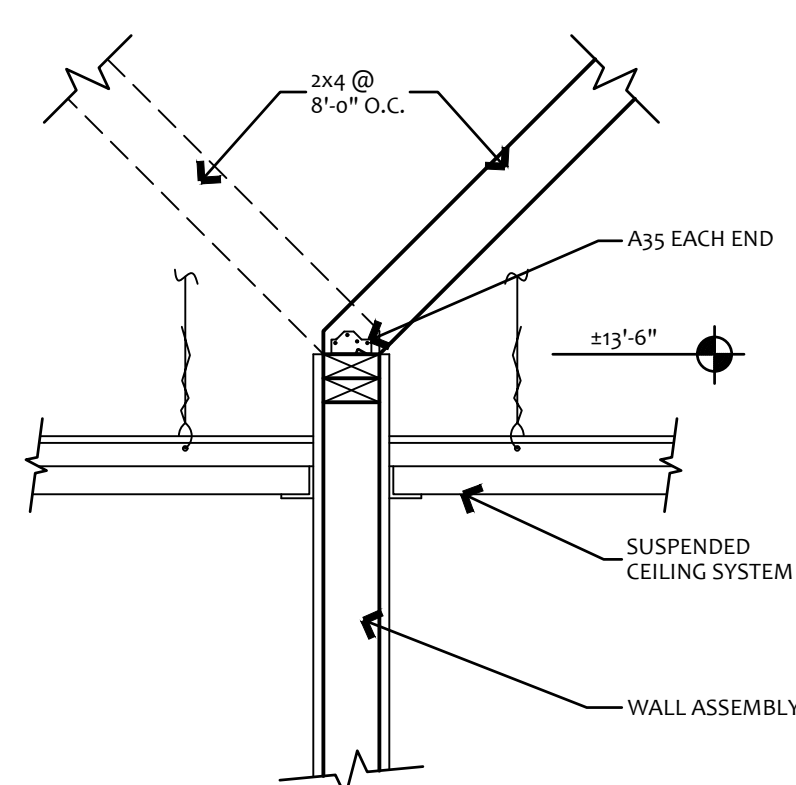
COMPRESSION PIPE STRUT	
SIZE	MAX. HEIGHT
1/2" x 22 GA	3'-0"
3/4" x 22 GA	4'-3"
1" x 20 GA	5'-0"
1 1/4" x 20 GA	7'-0"
1 1/2" x 20 GA	8'-6"
2" x 20 GA	11'-6"
2 1/2" x 18 GA	14'-6"
3" x 18 GA	17'-3"
3 1/2" x 16 GA	20'-0"
4" x 16 GA	23'-3"



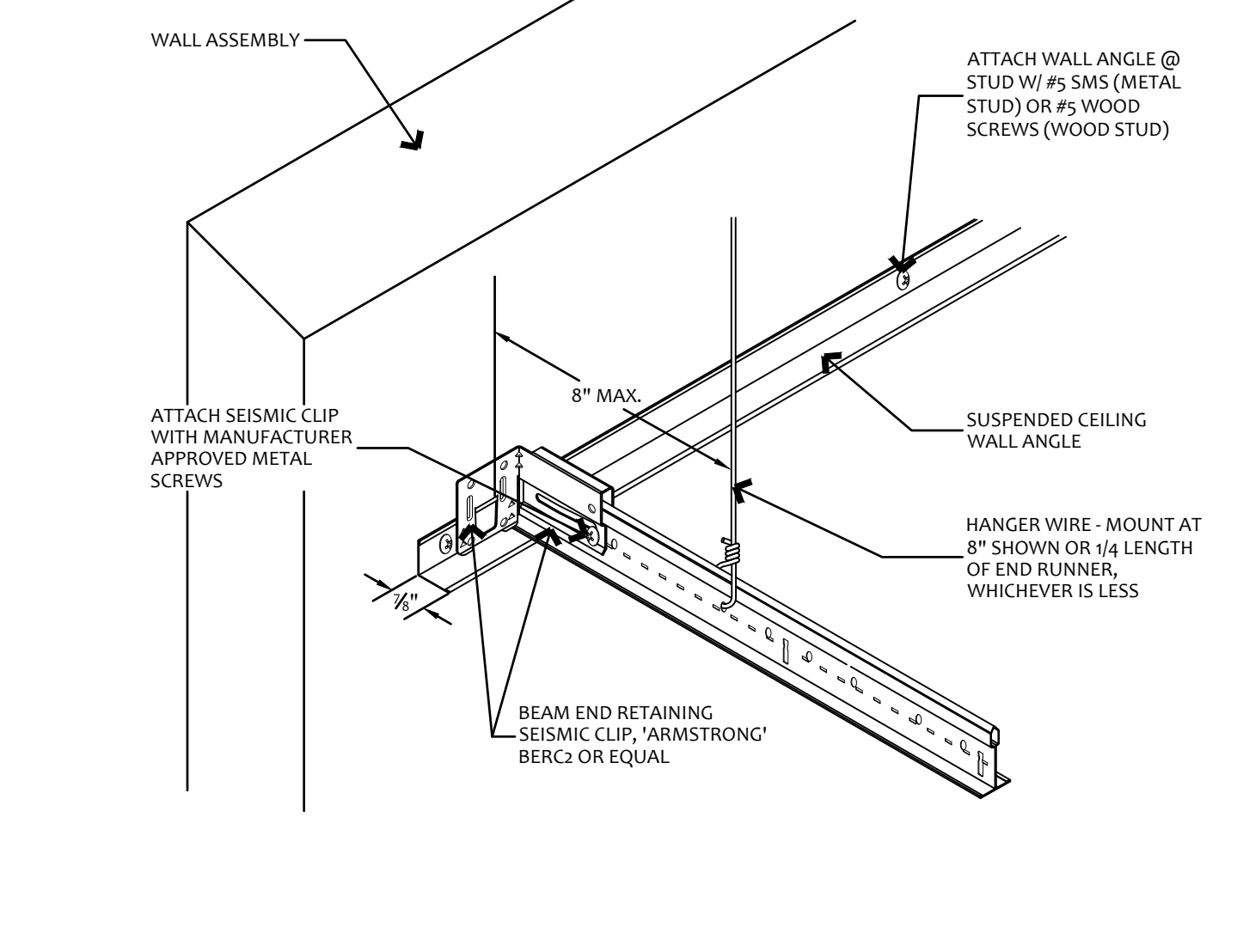
ACOUSTICAL CEILING GRID DETAIL

5
SCALE: 1" = 1'-0"
A4

TYPICAL NEW INTERIOR OFFICE WALL BRACING

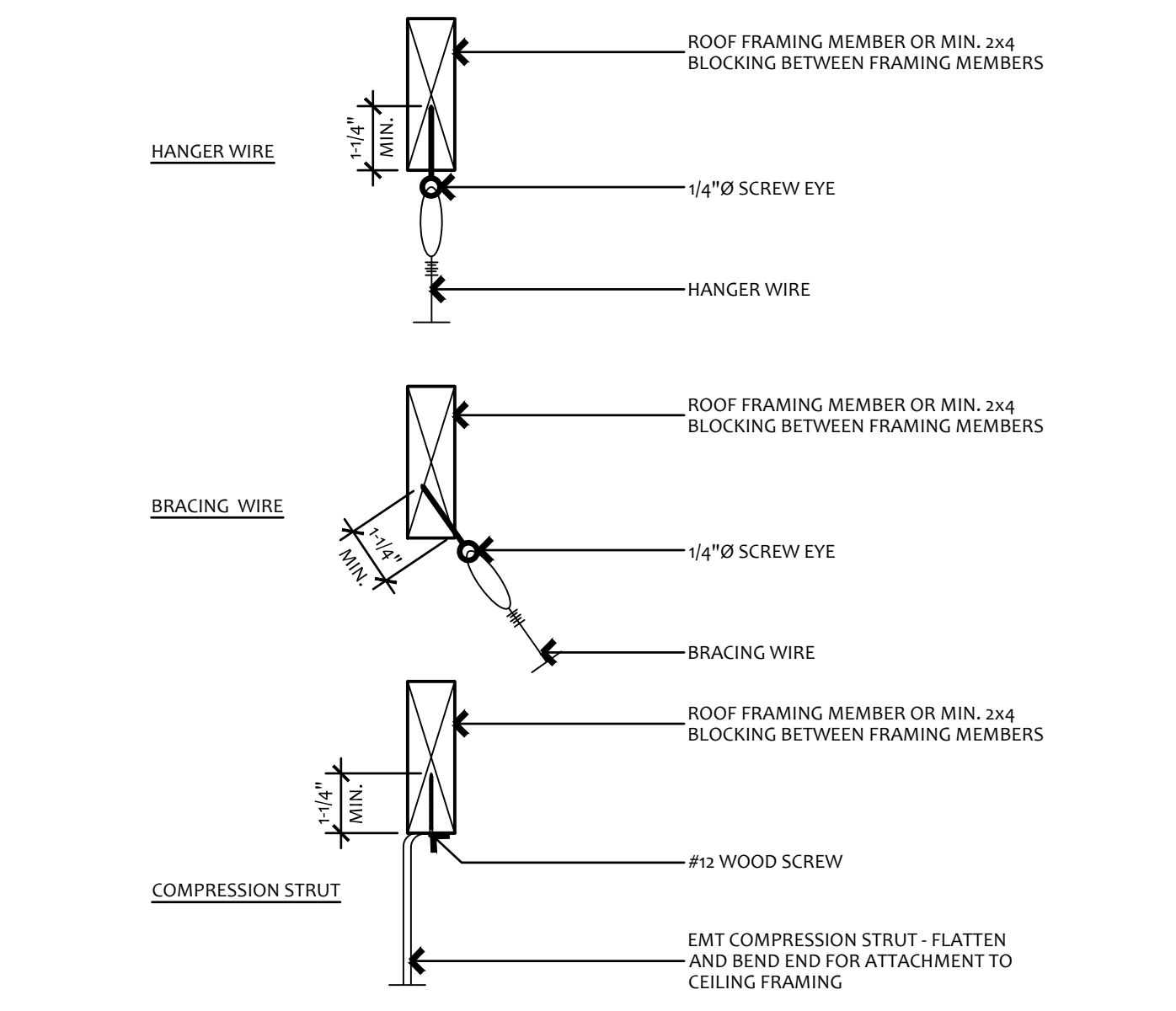


2
SCALE: 1/2" = 1'-0"
A4



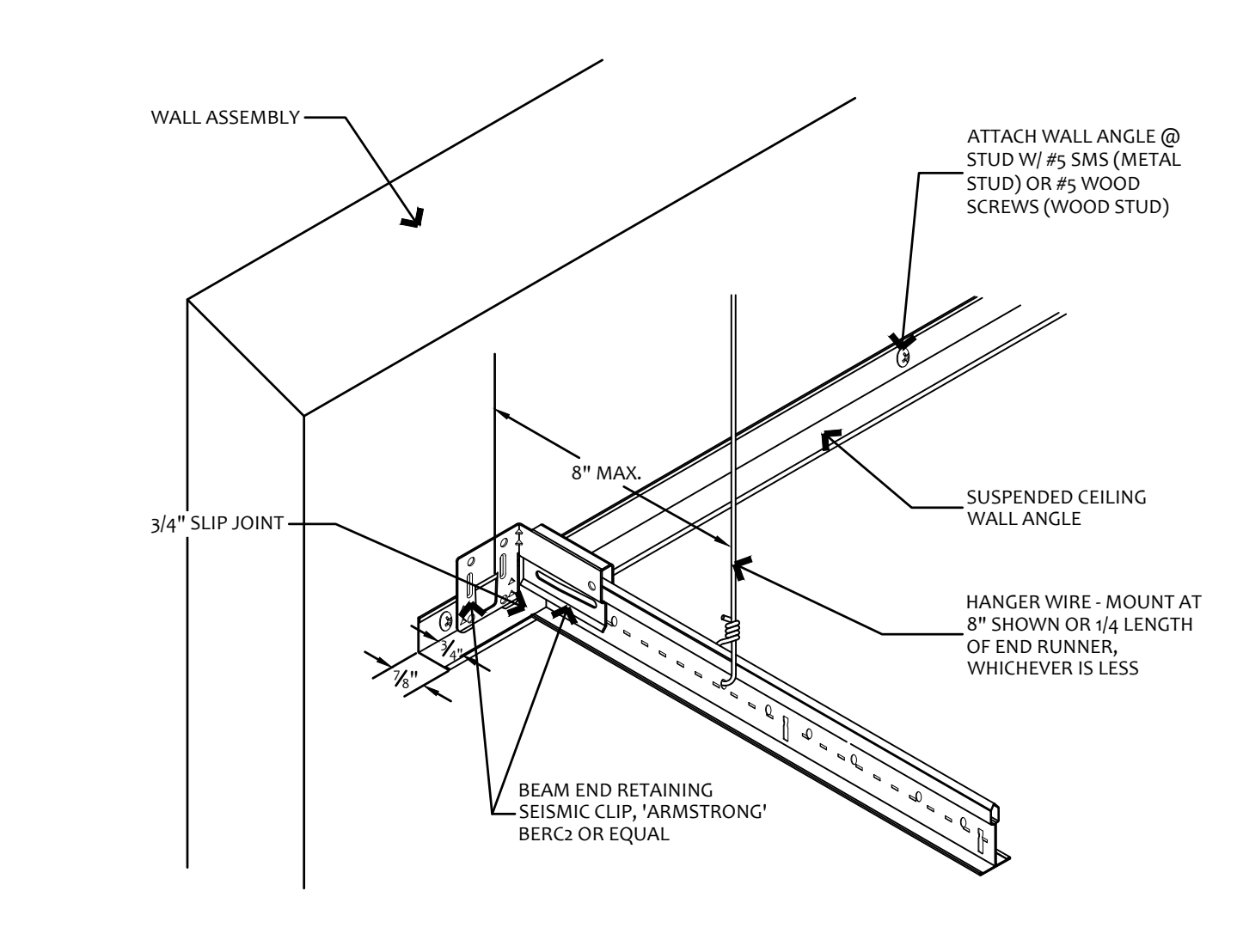
CEILING PERIMETER - ATTACHED

6
SCALE: 3/8" = 1'-0"
A4



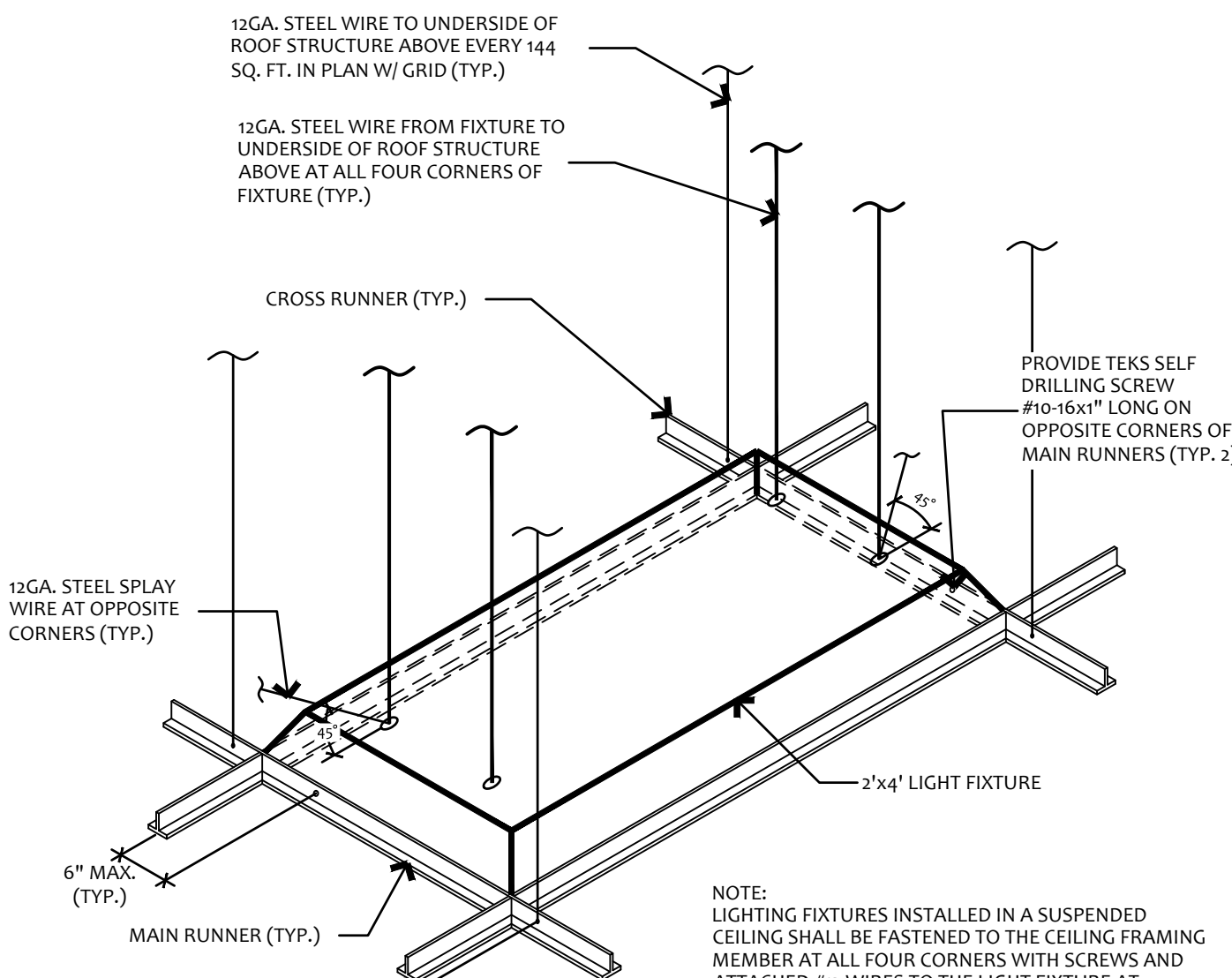
CEILING GRID TO FLOOR FRAMING

3
SCALE: 1" = 1'-0"
A4



CEILING PERIMETER - UNATTACHED

7
SCALE: 3/8" = 1'-0"
A4

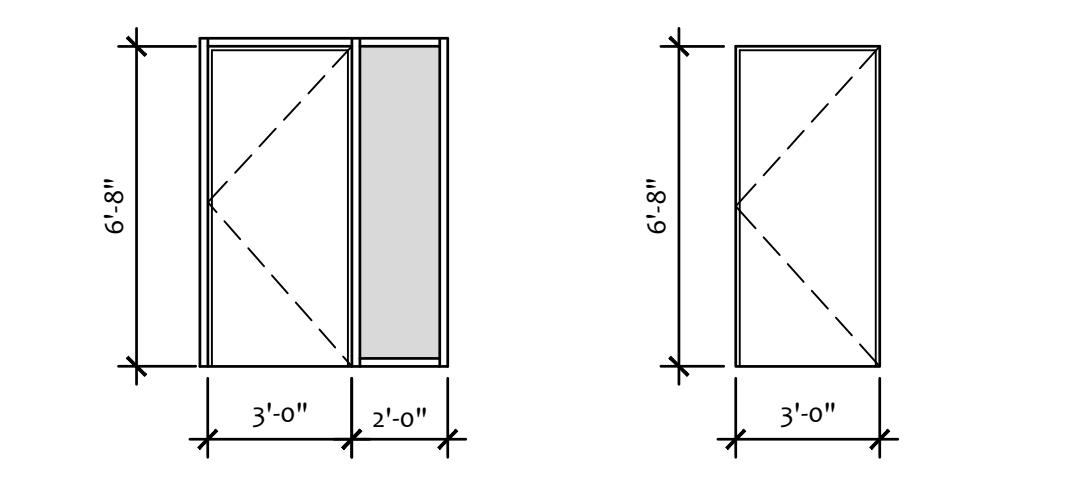


LIGHT FIXTURE SUPPORT DETAIL

4
SCALE: 3/4" = 1'-0"
A4

GENERAL DOOR NOTES:

- ALL DOORS AT ACCESSIBLE ENTRANCES, EXITS, AND PATHS OF TRAVEL SHALL COMPLY WITH CALIFORNIA BUILDING CODE SECTION 108-404.
- ALL ACCESSIBLE DOORS SHALL HAVE MANEUVERING CLEARANCES PER CBC SECTION 108-404.2.4. REFER TO ACCESSIBILITY DETAIL SHEETS FOR ILLUSTRATION OF MANEUVERING CLEARANCE REQUIREMENTS.
- THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 14 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. PROVIDE CLEAR SPACE OF 12" PAST STRIKE EDGE OF DOOR ON THE OPPOSITE SIDE TO WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
- THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. (CBC SECTION 108-404.2.5)
- DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT CLINCHING, OR TWISTING OF THE WRIST TO OPERATE. MANUALLY OPERATED DOORS OR DOORS WITH POWER ASSISTANCE SHALL BE PERMITTED. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- LATCHING AND LOCKING DEVICES THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTUATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPERATING HARDWARE.
- OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. (CBC 108-404.2.6)
- MAXIMUM EFFORT TO OPERATE EXTERIOR AND INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS, WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15LB. (CBC SECTION 108-404.2.9)
- THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION, WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR. (CBC SECTION 108-404.2.10)
- WHEN THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12" FROM THE LATCH. (CBC SECTION 108-404.2.8.1)



DOOR TYPES

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

DESCRIPTION OF BUILDING ELEMENTS	NUMBER & TYPE OF FASTENER ¹	SPACING & LOCATION	FASTENING SCHEDULE		
			DESCRIPTION OF BUILDING ELEMENTS	NUMBER & TYPE OF FASTENER ²	SPACING & LOCATION
ROOF					
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	4- 8d BOX (3 1/2" x 0.113") OR 3- 8d COMMON (2 1/2" x 0.113") OR 5- 10d BOX (3" x 0.187") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL			
2. BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2- 16d COMMON (3 1/2" x 0.162") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES	EACH END, TOENAIL			
3. PLAT BLOCKING TO TRUSS & WEB FILLER	16d COMMON (3 1/2" x 0.162") @ 6" O.C. 3" x 0.131" NAILS @ 6" O.C. 3- 1" x 14 GAGE STAPLES @ 6" O.C.	FACE NAIL			
4. CEILING JOIST TO TOP PLATE	4- 8d BOX (3 1/2" x 0.113") OR 3- 8d COMMON (2 1/2" x 0.113") OR 4- 10d BOX (3" x 0.187") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL			
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THIRST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3- 16d COMMON (3 1/2" x 0.162") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
6. CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL			
7. COLLAR TIE TO RAFTER	3- 16d COMMON (3" x 0.148") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
8. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3- 16d COMMON (3" x 0.148") OR 3- 16d COMMON (3 1/2" x 0.162") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	2 TOENAILS ON ONE SIDE & 1 TOENAIL ON OPPOSITE SIDE OF RAFTER OR TRUSS			
9. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS OR ROOF RAFTER TO 3-INCH RIDGE BEAM	2- 16d COMMON (3 1/2" x 0.162") OR 3- 16d COMMON (3 1/2" x 0.162") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	END NAIL			
10. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	2 1/2" O.C. FACE NAIL			
11. STUD TO STUD & BUTTING STUDS @ INTERSECTING WALL CORNERS @ BRACED WALL PANELS	16d COMMON (3 1/2" x 0.162") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL			
12. BUILT UP HEADER (2" TO 2" HEADER)	16d COMMON (3 1/2" x 0.162") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	16" O.C. EACH EDGE, FACE NAIL			
13. CONTINUOUS HEADER TO STUD	4- 8d COMMON (2 1/2" x 0.113") OR 4- 10d BOX (3" x 0.187") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES, 7/16" CROWN	TOENAIL			
14. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL			
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL			
16. STUD TO TOP OR BOTTOM PLATE	3- 16d COMMON (3 1/2" x 0.162") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	TOENAIL			
17. TOP PLATES, LAPS @ CORNERS & INTERSECTIONS	2- 16d COMMON (3 1/2" x 0.162") OR 3- 10d BOX (3" x 0.187") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
18. 1" RACE TO EACH STUD & PLATE	3- 8d BOX (3 1/2" x 0.113") OR 2- 8d COMMON (2 1/2" x 0.113") OR 2- 10d BOX (3" x 0.187") OR 2- 3" x 0.131" NAILS OR 2- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
19. 1/2" SHEATHING TO EACH BEARING	3- 8d BOX (3 1/2" x 0.113") OR 2- 8d COMMON (2 1/2" x 0.113") OR 2- 10d BOX (3" x 0.187") OR 2- 3" x 0.131" NAILS OR 2- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
20. 1" x 8" & WIDER SHEATHING TO EACH BEARING	3- 8d COMMON (2 1/2" x 0.113") OR 3- 8d BOX (3 1/2" x 0.113") OR 3- 10d BOX (3" x 0.187") OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
FLOOR					
21. JOIST TO SILL, TOP PLATE, OR GIRDER	4- 8d BOX (3 1/2" x 0.113") OR 3- 8d COMMON (2 1/2" x 0.113") OR 3- 10d BOX (3" x 0.187") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES, 7/16" CROWN	TOENAIL			
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2 1/2" x 0.113") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	4" O.C., TOENAIL 6" O.C., TOENAIL			
23. 1/2" SUBFLOOR OR LESS TO EACH JOIST	3- 8d BOX (3 1/2" x 0.113") OR 4- 8d COMMON (2 1/2" x 0.113") OR 3- 10d BOX (3" x 0.187") OR 3- 3" x 0.131" NAILS OR 3- 1" x 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			
24. 1" SUBFLOOR TO JOIST OR GIRDER	3- 16d BOX (3 1/2" x 0.162") OR 3- 16d COMMON (3 1/2" x 0.162")	BLIND & FACE NAIL			
25. 1" PLANKS (PLANK & BEAM - FLOOR & ROOF)	16d COMMON (3 1/2" x 0.162") OR 3- 16d COMMON (3 1/2" x 0.162")	FACE BEARING, FACE NAIL (FLOOR & ROOF)			
26. BUILT UP GIRDER & BEAMS, 2" LUMBER LAYERS	10d COMMON (4" x 0.192") OR 10d BOX (3" x 0.187") OR 3" x 0.131" NAILS OR 1" x 14 GAGE STAPLES, 7/16" CROWN	3 1/2" O.C. FACE NAIL @ TOP & BOTTOM, STAGGERED ON OPPOSITE SIDES			
27. EDGER STRIP SUPPORTING JOISTS OR RAFTERS	3- 16d COMMON (3 1/2" x 0.162") OR 4- 10d BOX (3" x 0.187") OR 4- 10d BOX (3" x 0.187") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL			
28. JOIST TO BAND JOIST OR RIM JOIST	3- 8d COMMON (2 1/2" x 0.113") OR 4- 3" x 0.131" NAILS OR 4- 1" x 14 GAGE STAPLES, 7/16" CROWN	END NAIL			
29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2- 10d BOX (3" x 0.187") OR 2- 3" x 0.131" NAILS OR 2- 1" x 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL			
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF & INTERIOR WALL SHEATHING TO FRAMING & PARTICLEBOARD WALL SHEATHING TO FRAMING³					
30. 3/8" - 1/2"	6d COMMON OR DEFORMED (3 1/2" x 0.113") OR 8d COMMON (2 1/2" x 0.113") NAIL (SUBFLOOR & WALL)	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
31. 1/2" - 5/8"	8d COMMON OR DEFORMED (3 1/2" x 0.113") HEAD (ROOF) OR RSRS-01 (3 1/2" x 0.113") NAIL (ROOF)	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
32. 5/8" - 1 1/4"	1 3/4" x 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR & WALL) 3 3/8" x 13" x 0.266" HEAD NAIL OR 1" x 12" x 16 GAGE STAPLE WITH 7/16" OR 1" CROWN (ROOF)	4"	4"	8"	INTERMEDIATE SUPPORTS (INCHES)
OTHER EXTERIOR WALL SHEATHING					
33. 1/2" FIBERBOARD SHEATHING ⁴	1 1/2" x 24" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER) OR 1 1/4" x 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
34. 5/8" FIBERBOARD SHEATHING ⁴	1 3/4" x 20" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER) OR 1 1/2" x 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING					
35. 3/4" & LESS	8d COMMON (3 1/2" x 0.162") OR DEFORMED (3" x 0.187") OR DEFORMED (3" x 0.187")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
36. 7/8" - 1"	8d COMMON (3 1/2" x 0.162") OR DEFORMED (3" x 0.187") OR DEFORMED (3" x 0.187")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
37. 1 1/8" - 1 1/4"	10d COMMON (3" x 0.187") OR DEFORMED (3" x 0.187") OR DEFORMED (3" x 0.187")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
PANEL SIDING TO FRAMING					
38. 1/2" OR LESS	6d CORROSION-RESISTANT FINISH (2" x 0.097") OR 6d CORROSION-RESISTANT CASING (2" x 0.097")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
39. 3/8"	8d CORROSION-RESISTANT SIDING (3 3/8" x 0.138") OR 8d CORROSION-RESISTANT CASING (3 1/2" x 0.113")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
INTERIOR PANELING					
40. 1/4"	6d FINISH (1 1/2" x 0.800") OR 6d CASING (2" x 0.097")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)
41. 3/8"	6d FINISH (2" x 0.097") OR 6d CASING (2" x 0.097") OR 6d FINISH (2" x 0.097")	6"	6"	12"	INTERMEDIATE SUPPORTS (INCHES)

FOR S1: 1 INCH = 25.4 mm

a. NAILS SPACED @ 6 INCHES @ INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL & PARTICLEBOARD DIAPHRAGMS & SHEARWALLS, REFER TO SECTION 2305. NAILS ON WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

b. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES & 12 INCHES @ INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS @ 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL), UNLESS OTHERWISE MARKED.

c. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE & THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

d. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

e. TABULATED FASTENER REQUIREMENTS APPLY WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 160 MPH. FOR WOOD STRUCTURAL PANEL, ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES & RIDGES, NAILS SHALL BE SPACED @ 4 INCHES ON CENTER. THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 160 MPH IN EXPOSURE B OR GREATER THAN 160 MPH IN EXPOSURE C. SPACING EXCEEDING 6 INCHES ON CENTER @ INTERMEDIATE SUPPORTS SHALL BE PERMITTED WHERE THE FASTENING IS DESIGNED PER THE AWC NDS.

f. FASTENING IS ONLY PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN OR EQUAL TO 160 MPH.

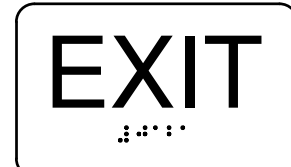
g. NAILS & STAPLES ARE CARBON STEEL MEETING THE SPECIFICATIONS OF ASTM F1667. CONNECTIONS USING NAILS & STAPLES OF OTHER MATERIAL, SUCH AS STAINLESS STEEL, SHALL BE DESIGNED BY ACCEPTABLE ENGINEERING PRACTICE OR APPROVED UNDER SECTION 106.11.

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DETAILS & FASTENING SCHEDULE
 S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE
 STOCKTON, CA
 BID SET - NDD
 DATE 15 OCT 24
 SCALE AS NOTED
 JOB 888-23-24
 A4



(EXAMPLE RAISED CHARACTER SIGNS)



(EXAMPLE VISUAL CHARACTER SIGN)

RAISED CHARACTERS (2013 CBC SEC. 11B-703.2)

1. RAISED CHARACTER SIGNS SHALL BE DUPLICATED IN BRAILLE (GRADE 2).
2. RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND.
3. CHARACTERS SHALL BE UPPERCASE AND SANS SERIF FONT.
4. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 105% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
5. CHARACTER HEIGHT SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
6. SIGNS WITH TACTILE CHARACTERS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
7. LOCATION: WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING.

VISUAL CHARACTERS (2013 CBC SEC. 11B-703.5)

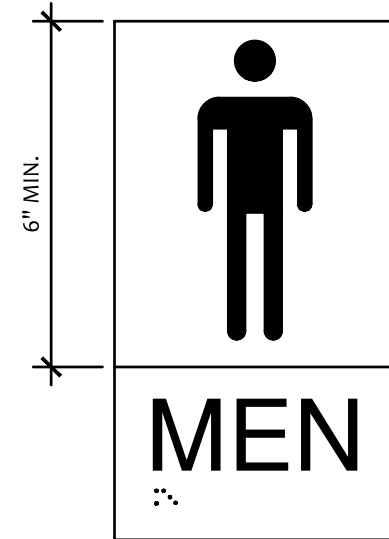
1. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.
2. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. CHARACTERS ON SIGN SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 105% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
3. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH 2013 CBC TABLE 11B-703.5-5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH.
4. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISHED FLOOR OR GROUND.
5. BRAILLE DOTS SHALL BE 1/16" ON CENTER IN EACH CELL WITH 2/16" SPACE BETWEEN CELLS, MEASURED FROM SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL.

VISUAL CHARACTER HEIGHT - TABLE 11B-703.5-5

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCH
	72 INCHES AND GREATER	5/8 INCH PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	LESS THAN 180 INCHES	2 INCHES
	180 INCHES AND GREATER	2 INCHES PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
GREATER THAN 120 INCHES	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

PICTOGRAMS (2013 CBC SEC. 11B-703.6)

1. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
2. PICTOGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH THEIR BACKGROUND.
3. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH SECTIONS 11B-703.2, 11B-703.3 AND 11B-703.4 (SEE ABOVE).



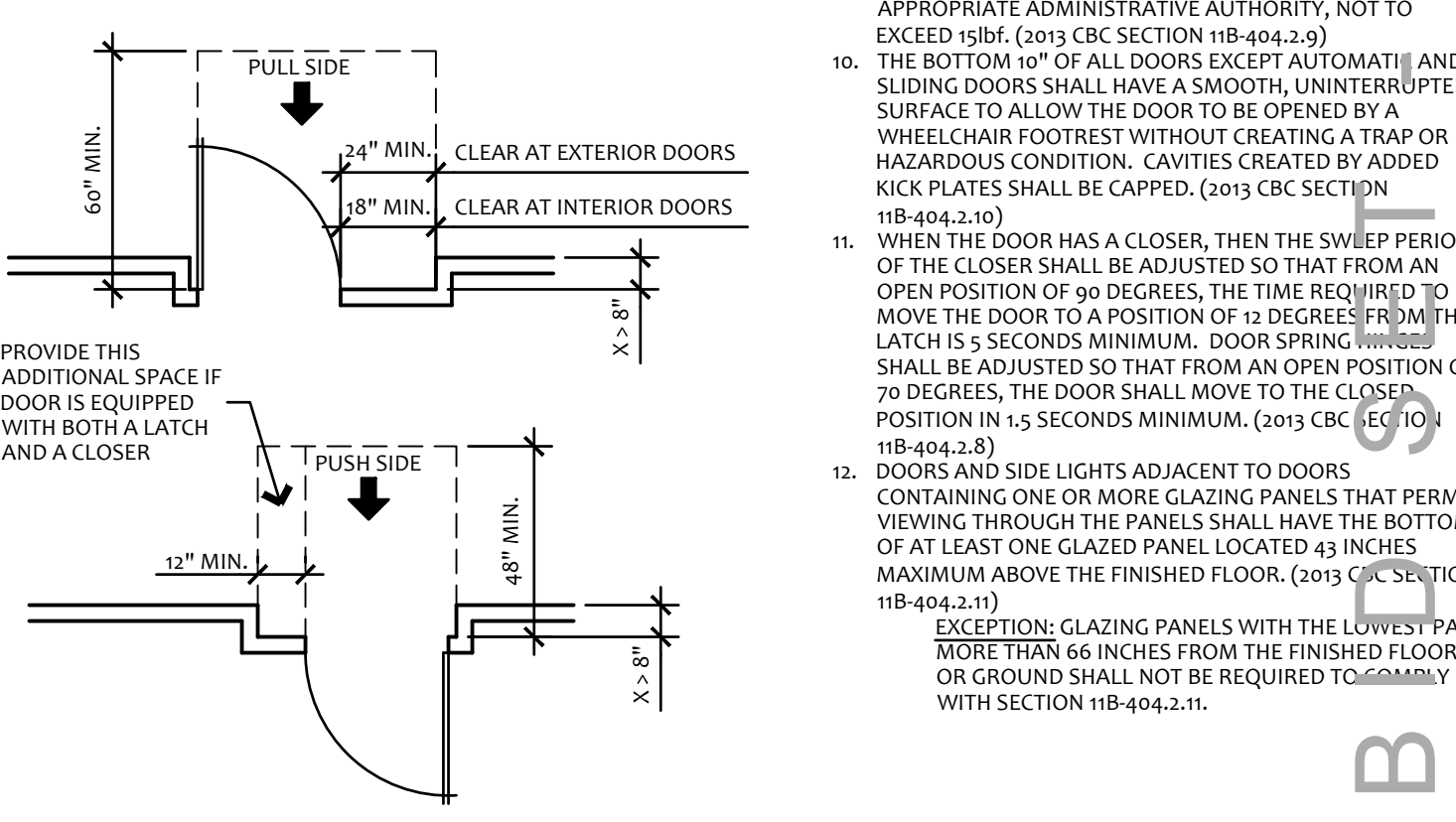
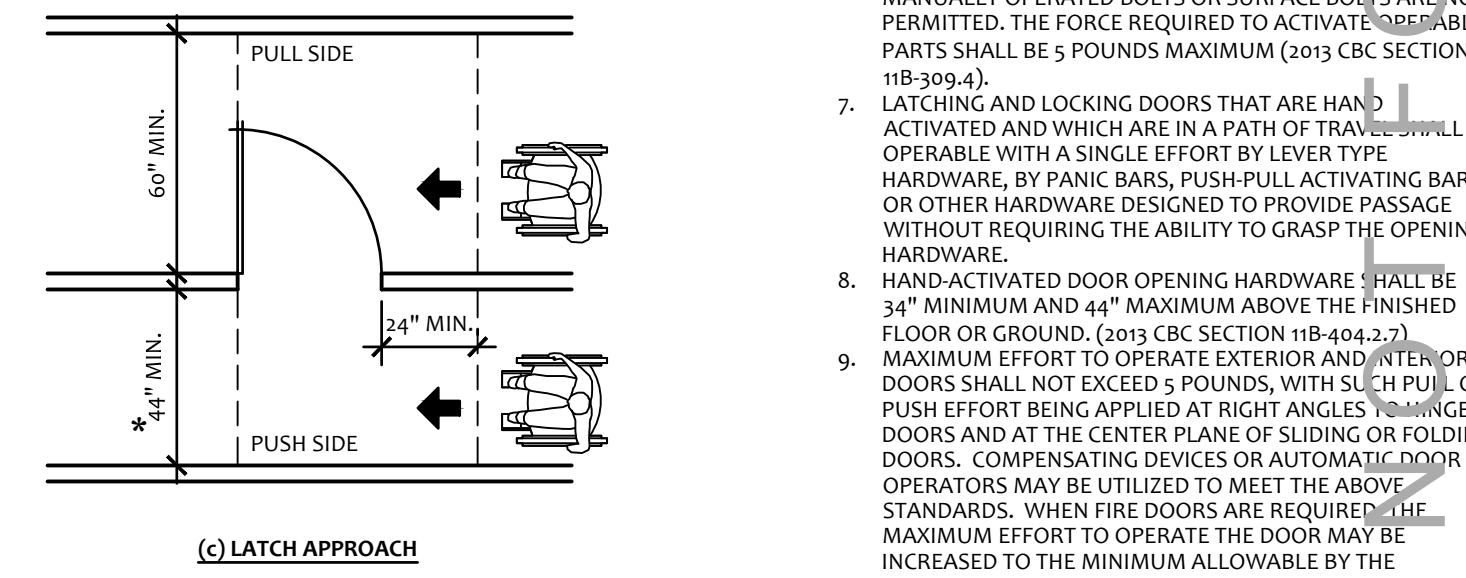
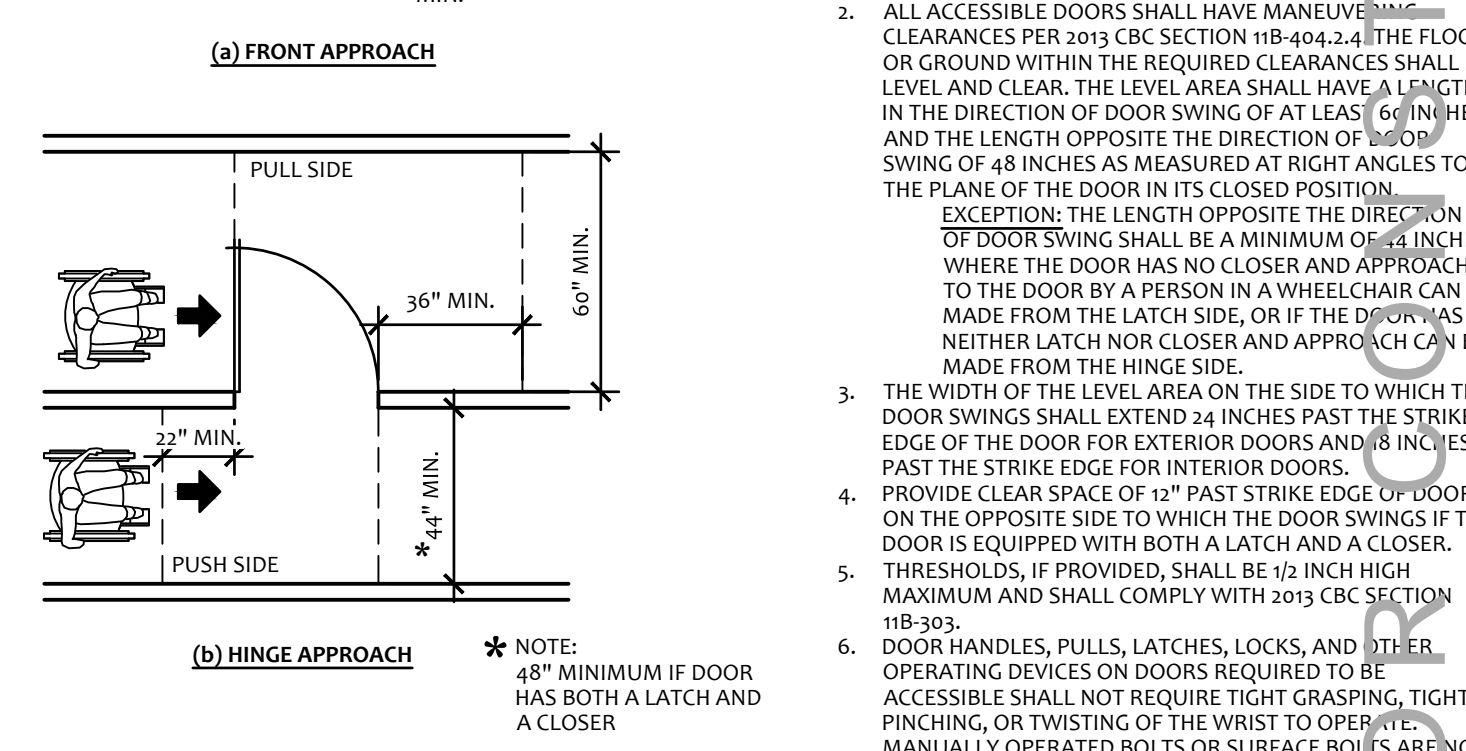
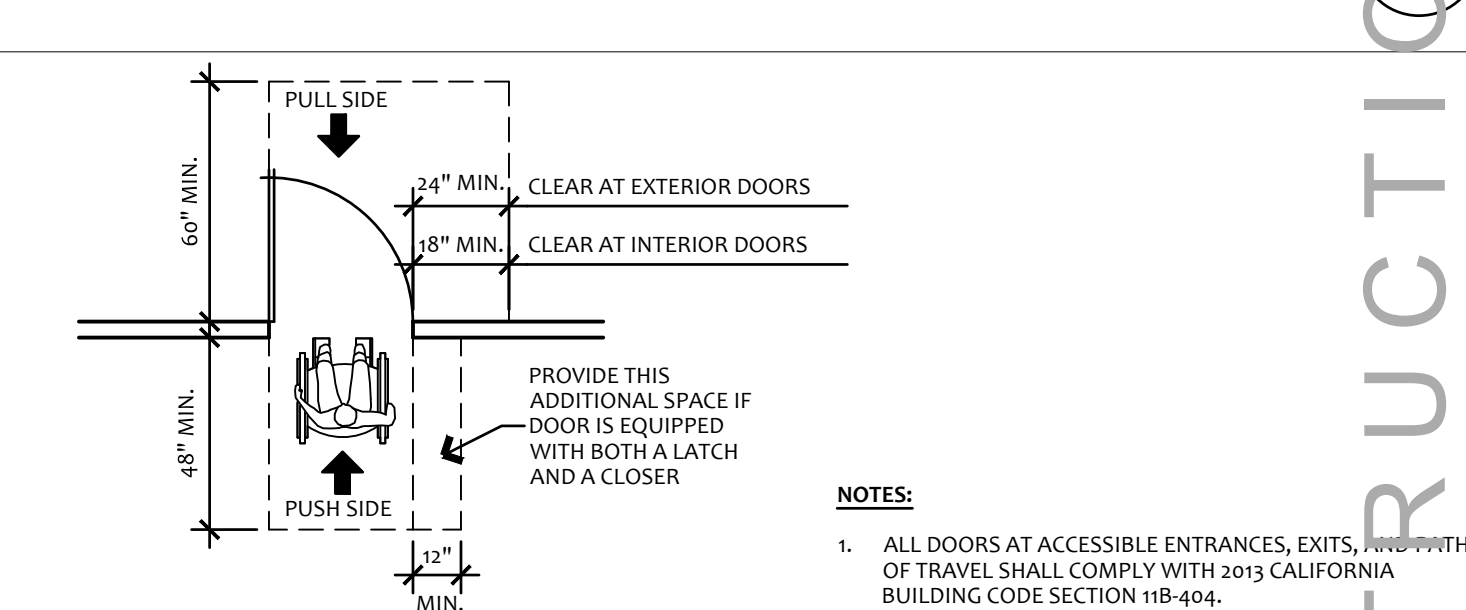
(EXAMPLE PICTOGRAM)

SIGNAGE DETAILS

NOT TO SCALE 3 AS.1

MAXIMUM REACH LIMITS

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

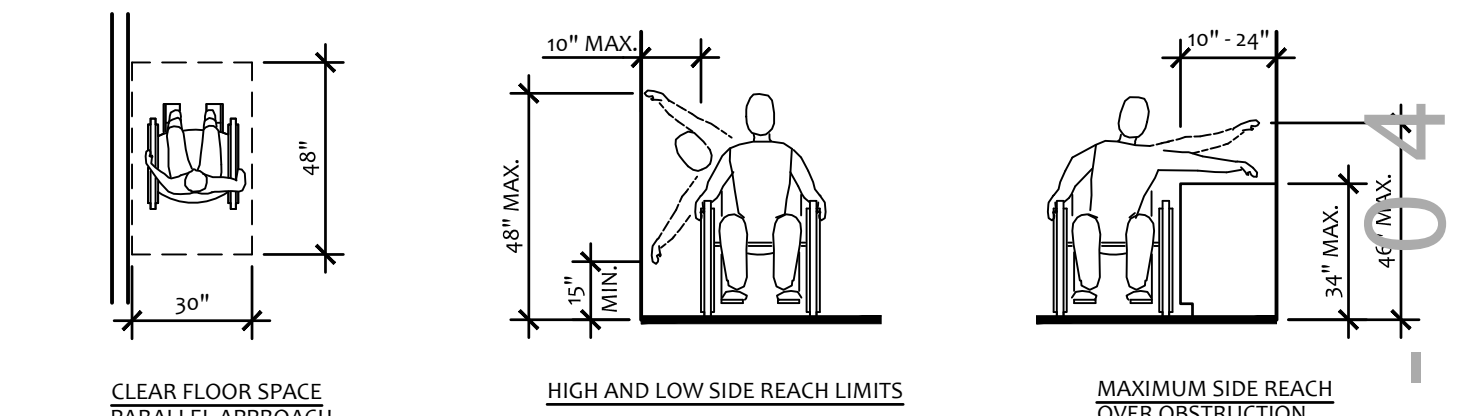
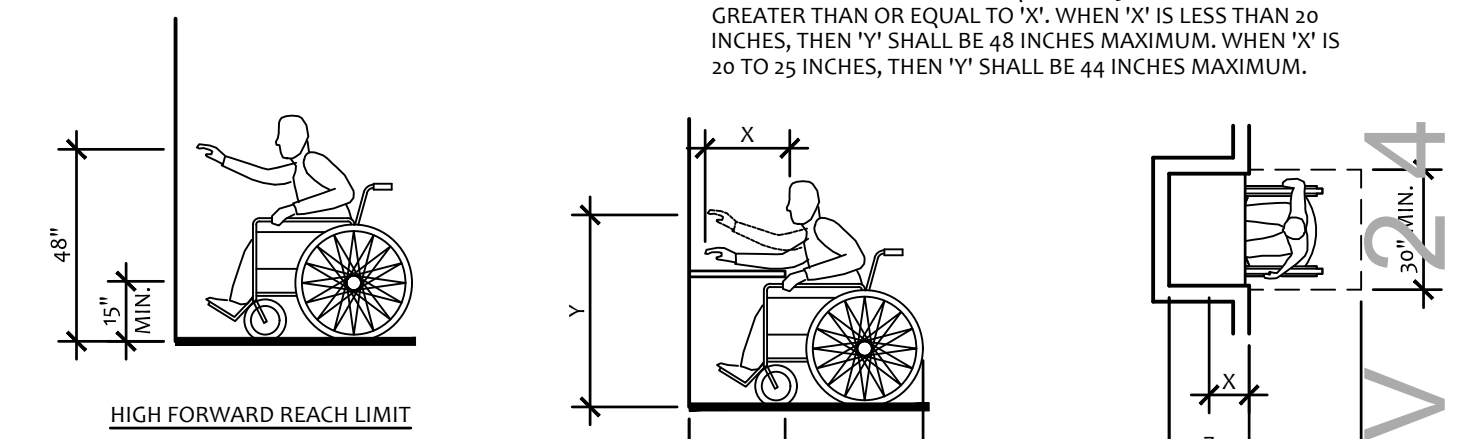


MANEUVERING CLEARANCE AT DOORS

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

2 AS.1

NOTE: 'X' SHALL BE LESS THAN OR EQUAL TO 25 INCHES. 'Z' SHALL BE GREATER THAN OR EQUAL TO 'X'. WHEN 'X' IS LESS THAN 20 INCHES, THEN 'Y' SHALL BE 48 INCHES MAXIMUM. WHEN 'X' IS 20 TO 25 INCHES, THEN 'Y' SHALL BE 44 INCHES MAXIMUM.



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ACCESSIBILITY STANDARDS
S.J.C.O.E. - OPERATIONS / PURCHASING TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE
 STOCKTON, CA.

DATE	15 OCT 24
SCALE	AS NOTED
JOB	888-23-24

AS.1

GREEN BUILDING MEASURES

- ALL EQUIPMENT AND SYSTEMS SHALL BE TESTED BY AN INDEPENDENT TESTING AND BALANCING (TAB) CONTRACTOR. THE TAB CONTRACTOR SHALL PROVIDE A REPORT FOR THE MEOR APPROVAL. A COPY OF THE APPROVED REPORT SHALL BE PROVIDED TO THE BUILDING OWNER.
- THE BUILDING OWNER SHALL BE PROVIDED WITH ADEQUATE TRAINING, DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES AND/OR WARRANTIES FOR EACH SYSTEM AND ALL EQUIPMENT.
- THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF THE ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS OF MERV 13 (AVERAGE EFFICIENCY OF 80%), REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBCS) 5.504.1.
- AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST AND DEBRIS WHICH MAY ENTER THE SYSTEM. CGBCS 5.504.3.
- ADHESIVES, SEALANTS AND CAULKS SHALL NOT EXCEED VOC LIMITS PUBLISHED IN CGBCS 5.504.4. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLIANCE UPON REQUEST OF THE ENFORCING AGENCY.
- AIR HANDLING UNITS SHALL BE PROVIDED WITH MERV 13 FILTERS (AVERAGE EFFICIENCY OF 80%) AS INDICATED IN THE SCHEDULE. CGBCS 5.504.5.3.
- VENTILATION IS PROVIDED IN ACCORDANCE PER THE CALIFORNIA MECHANICAL CODE. MINIMUM VENTILATION AIRFLOW IS LISTED ON THE DRAWINGS. CGBCS 5.506.1.
- THE REFRIGERANT USED BY THE MECHANICAL EQUIPMENT, R410A, DOES NOT CONTAIN CFC OR HALON. CGBCS 5.508.1.

MECHANICAL GENERAL NOTES

- SCOPE: PROVIDE NEW MECHANICAL EQUIPMENT, AIR DISTRIBUTION SYSTEMS, TERMINAL DEVICES, CONTROLS AND NECESSARY APPURTENANCES AS GENERALLY DELINEATED ON THE PLANS FOR COMPLETE AND FUNCTIONAL SYSTEMS. EQUIPMENT SHALL COMPLY WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS. PROVIDE DEMOLITION OF EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES AS GENERALLY INDICATED ON THE PLANS.
- CODES: ALL WORK MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY HAVING JURISDICTION. NOTHING IN THESE PLANS SHALL BE CONSTRUED TO PERMIT THE INSTALLATION OF WORK, MATERIAL OR EQUIPMENT NOT CONFORMING TO THESE OR OTHER CODES APPLICABLE TO THIS PROJECT:
 - 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1.
 - 2022 CALIFORNIA BUILDING CODE (CBC), CCR TITLE 24, PART 2, BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC).
 - 2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR TITLE 24, PART 3, BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC).
 - 2022 CALIFORNIA MECHANICAL CODE (CMC), CCR TITLE 24, PART 4, BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC).
 - 2022 CALIFORNIA PLUMBING CODE (CPC), CCR TITLE 24, PART 5, BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC).
 - 2022 CALIFORNIA ENERGY CODE (CEC), CCR TITLE 24, PART 6.
 - 2022 CALIFORNIA FIRE CODE (CFC), CCR TITLE 24, PART 9, BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC).
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, "CALGREEN", CCR TITLE 24, PART 11.
- WORKMANSHIP: ALL WORKMANSHIP SHALL BE DONE IN A NEAT AND ORDERLY MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. EQUIPMENT, DUCTS, GRILLES, ETC., SHALL BE PLUMB, LEVEL, SQUARE OR CENTERED ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- AVAILABLE POWER: THE MECHANICAL CONTRACTOR SHALL CONFIRM ALL SYSTEMS VOLTAGES BEFORE BIDDING OR ORDERING EQUIPMENT, AND SHALL ALLOW FOR BUCK & BOOST TRANSFORMERS IF REQUIRED.
- AIR BALANCE: THE AIR DISTRIBUTION SYSTEM SHALL BE BALANCED TO DELIVER SPECIFIED AIR QUANTITIES FOLLOWING THE PROCEDURES OF THE LATEST EDITION OF THE SMACNA PUBLICATION PROCEDURAL STANDARDS FOR TESTING, ADJUSTING & BALANCING OF ENVIRONMENTAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE & ADJUSTABLE VOLUME DAMPERS AS REQUIRED TO BALANCE THE SYSTEMS AND MAINTAIN A NOISE CRITERIA LEVEL NOT TO EXCEED 30.
- PERMITS AND UTILITY SERVICE FEES: THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND SERVICE CHARGES REQUIRED IN THE INSTALLATION OF THE WORK.
- EXISTING INFORMATION: LOCATION, SIZE, MATERIAL, ETC. OF EXISTING SYSTEMS, ETC., IS PROVIDED FROM SOURCES DEEMED TO BE RELIABLE BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL DATA BEFORE PROCEEDING WITH ANY WORK. NO EXTRA COST WILL BE ALLOWED FOR CONDITIONS NOT AS SHOWN.
- ACCURACY: THE PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND LOCATIONS OF AC UNITS, EXHAUST FANS, WALLS, PARTITIONS ETC., AGAINST ARCHITECTURAL AND STRUCTURAL DESIGN PLANS FOR LOCATION CONSISTENCY & ACCURACY PRIOR TO COMMENCING WITH ANY WORK.
- PAINTING: PAINT ALL VISIBLE INTERIOR PORTIONS OF TERMINAL DEVICES & CANS WITH FLAT BLACK ENAMEL PAINT.
- SIZES: DUCTWORK SIZES ON PLANS ARE INSIDE NET FREE AREA.
- MECHANICAL EQUIPMENT: ALL EQUIPMENT SHALL BE LISTED BY AN APPROVED TESTING AGENCY AND INSTALLED IN ACCORDANCE WITH ITS INSTALLATION INSTRUCTIONS AND LISTING.
- INSULATING MATERIALS APPLIED TO THE SURFACE OF DUCTS AND PIPES SHALL HAVE A FLAME INDEX NOT TO EXCEED 25 AND A SMOKE-DEVELOPED INDEX NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER 2022 CMC, SECTION 605.

DUCTWORK NOTES

- ALL RECTANGULAR DUCT ELBOWS SHALL BE SMOOTH RADIUS WITHOUT TURNING VANES, CONSTRUCTED WITH A MINIMUM OF 1 1/2 CENTERLINE RADIUS TO WIDTH, UNLESS OTHERWISE NOTED ON DRAWINGS. PROVIDE SPLITTER VANES ON SMOOTH RADIUS RECTANGULAR ELBOWS FOR COMPLETE AND FUNCTIONAL SYSTEMS. EQUIPMENT SHALL COMPLY WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS. PROVIDE DEMOLITION OF EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES AS GENERALLY INDICATED ON THE PLANS.
- ALL RECTANGULAR BRANCHES SHALL BE CONSTRUCTED OF ADJUSTABLE SPLITTER DAMPERS OR WYE FITTINGS AS SHOWN ON THE DRAWINGS. PROVIDE BRANCH EXTRACTORS AND/OR DAMPERS ON WYE FITTINGS AS REQUIRED TO ACCOMPLISH DESIRED AIRFLOW.
- ALL ROUND BRANCHES FROM RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF CONICAL TYPE FITTINGS.
- PROVIDE TURNING VANES ON ALL SQUARE AND RECTANGULAR ELBOWS.
- FACTORY MADE FLEXIBLE AIR DUCT AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE SMACNA STANDARDS AND FABRICATION GUIDELINES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ACTUAL EQUIPMENT SELECTION, CONFIGURATION AND LOCATION; DUCTWORK SIZES, ROUTING AND PENETRATION LOCATIONS.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED PER TITLE 24 THICKNESS AND R-VALUE REQUIREMENTS. EXTERIOR INSULATION EXPOSED TO WEATHER SHALL BE WEATHERPROOFED AND SHALL BE PAINTED TO MATCH EXISTING ROOFTOP DUCTWORK.
- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE PROVIDED WITH ACOUSTICAL WITHIN 10' FROM THE ROOFTOP UNIT OR FANCOIL.
- ALL SUPPLY AIR DUCT SHALL BE PROVIDED WITH INSULATION TO PREVENT CONDENSATION.
- ALL METAL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL PER CMC SECTION 602.3.
- ALL METAL DUCTS SHALL BE SUPPORTED PER LATEST SMACNA GUIDELINES.
- MATERIALS INSTALLED WITHIN DUCTS AND PLENUMS FOR INSULATING, SOUND DEADENING, OR OTHER PURPOSES SHALL HAVE A MOLD, HUMIDITY, AND EROSION-RESISTANT SURFACE WHERE TESTED IN ACCORDANCE WITH UL 181.
- DUCT COVERINGS AND LININGS, INSULATION APPLIED TO THE SURFACE OF DUCTS, INCLUDING DUCT COVERINGS, LININGS, TAPES, AND ADHESIVES, LOCATED IN BUILDINGS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50, WHERE TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
- DUCT LEAKAGE TESTING SHALL BE CONDUCTED PER CMC SECTION 603.9.2.

FLEXIBLE DUCTWORK NOTES

- DUCTS SHALL BE INSTALLED USING THE MINIMUM REQUIRED LENGTH TO MAKE THE CONNECTION.
- HORIZONTAL DUCT RUNS SHALL BE SUPPORTED AT NOT MORE THAN 4 FEET INTERVALS.
- VERTICAL RISERS SHALL BE SUPPORTED AT NOT MORE THAN 6 FEET INTERVALS.
- SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2" PER FOOT OF SUPPORT SPACING.
- SUPPORTS SHALL BE RIGID AND SHALL BE NOT LESS THAN 1 1/2" WIDE AT POINT OF CONTACT WITH THE DUCT SURFACE.
- DUCT BENDS SHALL BE NOT LESS THAN ONE DUCT DIAMETER BEND RADIUS.
- SCREWS SHALL NOT PENETRATE THE INNER LINER OF NON-METALLIC FLEXIBLE DUCTS UNLESS PERMITTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- FITTINGS FOR ATTACHING NON-METALLIC DUCTS SHALL BE BEADED AND HAVE A COLLAR LENGTH OF NOT LESS THAN 2" FOR ATTACHING THE DUCT. EXCEPTION: A BEAD SHALL NOT BE REQUIRED WHERE METAL WORM-GEAR CLAMPS ARE USED OF WHERE ATTACHING METALLIC DUCTS USING SCREWS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DUCT INNER LINER SHALL BE INSTALLED AT NOT LESS THAN 1 INCH ON THE COLLAR AND PAST THE BEAD PRIOR TO THE APPLICATION OF THE TAPE AND MECHANICAL FASTENER, WHERE MASTIC IS USED INSTEAD OF TAPE. THE MASTIC SHALL BE APPLIED IN ACCORDANCE WITH THE MASTIC MANUFACTURER'S INSTRUCTIONS.
- DUCT OUTER VAPOR BARRIERS SHALL BE SECURED USING TWO WRAPS OF APPROVED TAPE. A MECHANICAL FASTENER SHALL BE PERMITTED TO BE USED IN PLACE OF, OR IN COMBINATION WITH, THE TAPE.
- FLEXIBLE AIR DUCTS SHALL NOT PENETRATE A FIRE-RESISTANCE-RATED ASSEMBLY OR CONSTRUCTION.
- THE TEMPERATURE OF THE AIR TO BE CONVEYED IN A FLEXIBLE AIR DUCT SHALL NOT EXCEED 250°F.
- FLEXIBLE AIR DUCTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 603.10.

MECHANICAL LEGEND

DESCRIPTION	SYMBOL
SUPPLY AIR DUCT SECTION	SA
RETURN AIR DUCT SECTION	RA
DUCT SIZE NET INSIDE DIMENSION	12x12
EXHAUST AIR DUCT SECTION	EA
SPLITTER DAMPER W/ LOCKING QUADRANT	[Symbol]
FLEXIBLE DUCT CONNECTION	[Symbol]
DUCT DROP/RISE	[Symbol]
DOOR LOUVER	[Symbol]
AIR EXTRACTOR	[Symbol]
ACCESS DOOR - A.D.	[Symbol]
VOLUME DAMPER W/ LOCKING QUADRANT	[Symbol]
AUTO MOTORIZED CONTROLLED DAMPER	[Symbol]
FIRE DAMPER / CEILING FIRE DAMPER	[Symbol]
MOTORIZED FIRE / SMOKE DAMPER	[Symbol]
1ST LETTER - LOCATION	C-CEILING W-WALL F-FLOOR
2ND LETTER - SERVICE	S-SUPPLY R-RETURN E-EXHAUST
NUMBER	300 CFM 12x12 WS-1 300 CFM 14x8
300 CFM = AIRFLOW 12 X 12 = NECK SIZE	
SMOKE DETECTOR	[SD]
DUCT WITH ACOUSTICAL LINING	[Symbol]
TO BE REMOVED	XXXXXX
THERMOSTAT	T-1-4
SENSOR, WALL MOUNTED CO2	CO2, RTU-XX
SENSOR, WALL MOUNTED TEMPERATURE	RTU-XX / HP-XX / FC-XX
WALL SWITCH - ON, OFF, HOLD, INCREMENTAL	TIMED
CHECK VALVE	[Symbol]
FLEXIBLE COUPLING	[Symbol]
GLOBE VALVE	[Symbol]
PRESSURE GAUGE	[Symbol]
REDUCER	[Symbol]
SHUT OFF COCK	[Symbol]
SHUT OFF VALVE	[Symbol]
STRAINER	[Symbol]
THERMOMETER	[Symbol]
UNION	[Symbol]
ABOVE	ABV
ABOVE FINISHED FLOOR	AFF
ACCESS DOOR / ACCESS PANEL	AD / AP
ANALOG INPUT / ANALOG OUTPUT	AI / AO
AUTOMATIC AIR VENT	AAV
BELOW	BEL
CEILING	CLG
CEILING EXHAUST FAN	CEF
CONCRETE	CONC.
CUBIC FEET PER HOUR (1000 BTU)	CFH
CUBIC FEET PER MINUTE	CFM
DIFFERENTIAL PRESSURE TRANSDUCER	DPT
DIGITAL INPUT / DIGITAL OUTPUT	DI / DO
DOWN	DN
DRY BULB	DB
ENTERING AIR TEMPERATURE	EAT
EXISTING	(E)
FLOW SWITCH	FS
GALLONS PER MINUTE	GPM
LEAVING AIR TEMPERATURE	LAT
THOUSANDS OF BTU'S PER HOUR	MBH
MECHANICAL ENGINEER OF RECORD	MEOR
NET FREE AREA	NFA
NEW	(N)
NOT IN MECHANICAL CONTRACT	N.I.M.C.
OUTSIDE AIR	OSA
POINT OF CONNECTION	POC
REFRIGERANT LIQUID / REFRIGERANT SUCTION	RL / RS
TEMPERATURE CONTROL PANEL	TCP
VALVE	V
WELL TEMPERATURE SENSOR	WTS
WET BULB	WB

PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE

MARK NUMBER	MANUFACTURER & MODEL #	DESCRIPTION	NOM TONS	CFM	OSA CFM	COOLING MBH		HEATING MBH		ESP IN WC	MOTOR BHP	ELECTRICAL DATA				OP. WT. LBS.	HSPF2	EER2/SEER2	NOTES		
						TOTAL	SENS	HIGH 47"	LOW 17"			ELECTRIC KW	HEAT FLA	VOLTS	PH					MCA	MOCP
AC-27	CARRIER 50GCQT04A2A3-0A3A0	PACKAGED DOWNFLOW	3	1200	370	34.02	26.95	33.2	18.0	0.70	0.47	3.3	15.9	208	1	48	50	760	7.3	11.7 / 16.0	SEE NOTES 1, 2, & 3

PROVIDE WITH FACTORY WEATHER-PROOF NON-FUSED ELECTRICAL DISCONNECT, DOWN-FLOW SUPPLY AND RETURN, LOW AMBIENT OPERATION, FREEZE PROTECTION T-STAT, HIGH-LO PRESSURE SWITCHES, CRANKCASE HEATER, HIGH-TEMP LIMIT SWITCHES, CONDENSER COIL GUARD GRILLE. PROVIDE MERV 13 FILTERS. COOLING PERFORMANCE BASED ON AMBIENT 95°F DB, 67°F WB AND 80°F ENTERING AIR TEMPERATURE.

THERMOSTAT: SHALL BE CALIFORNIA COMPLIANT THERMOSTAT W/ 3 HOUR OCCUPIED BUTTON IN COVER AND TAMPER PROOF COVER. T-STAT SHALL BE ACCESSIBLE & MOUNTED @ 48" ABOVE FINISHED FLOOR. PROVIDE DIGITAL DISPLAY, PROGRAMMABLE THERMOSTAT.

- ROOF CURB: STRUCTURALLY CALCULATED 14" TALL, KNOCKDOWN ROOF. TO INCLUDE WOOD NAILER AND HOLD DOWN BRACKETS. CONDENSATE AND POWER THROUGH THE CURB LISTED CURB WEIGHT IS 91 LBS. PROVIDE TCBKDP14.
- ULTRA LOW LEAK ECONOMIZER, VERTICAL ORIENTATION, ADJUSTABLE DRY BULB SENSOR, FACTORY POWER EXHAUST - PROPELLER TYPE FAN POWERED FROM UNIT, AND NECESSARY APPURTENANCES. THERMOSTAT SHALL MEET TITLE 24 FAULT DETECTION
- PACKAGED UNIT SHALL BE PROVIDED WITH SELF-CLEANING NEEDLEPOINT BIPOLAR IONIZATION SYSTEM. 24V TO 240V AC/DC, 0.41 TO 0.041 AMPS, POWER CONSUMPTION 10 W, TOTAL ION OUTPUT > 400 MILLION IONS/CC, 1.32 LBS, UL LISTED. GPS AIR #GPS-FC48-AC OR EQUAL. BIPOLAR IONIZATION EQUIPMENT SHALL BE FACTORY INSTALLED BY CARRIER. AREA SERVED IS PROVIDED WITH A TOTAL COVERAGE SMOKE-DETECTION SYSTEM. THE SMOKE DETECTION SYSTEM SHALL SHUT-OFF AIR MOVING UNIT UPON THE DETECTION OF SMOKE. LISTED WEIGHT INCLUDES ROOFTOP UNIT AND ECONOMIZER. UNITS SHALL BE PROVIDED WITH BASIC ELECTRO-MECHANICAL CONTROLS. THE CONTRACTOR SHALL PROVIDE BACNET BMS CONTROLLER MODULE TO INTERFACE WITH THE EXISTING JCI METASYS. THE CONTRACTOR SHALL PROVIDE NEW THERMOSTAT AND ROOM TEMPERATURE SENSORS. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALL AT, BUT NOT EXCEED, 4'-0" ABOVE FINISHED FLOOR.

AIR DISTRIBUTION DEVICE SCHEDULE

MK. NO.	MANUFACTURER & MODEL NO.	FRAME TYPE	BLOW PATTERN	OBD	NECK SIZE	REMARKS
CS-1	NAILOR #7500	LAY-IN	SEE PLAN	NO	SEE PLAN	STEEL, 24"x24" FACE, ROUND NECK, APPLIANCE WHITE
CS-2	NAILOR #7500	SURFACE	SEE PLAN	NO	SEE PLAN	STEEL, SQUARE FACE, ROUND NECK, APPLIANCE WHITE
CR-1	NAILOR #6145H	LAY-IN	--	NO	SEE PLAN	STEEL, 24"x24" FACE, FIXED 45° HORIZONTAL BLADE, APPLIANCE WHITE
CR-2	NAILOR #6145H	SURFACE	--	YES	SEE PLAN	STEEL, FIXED 45° HORIZONTAL BLADE, APPLIANCE WHITE

- PROVIDE SQUARE OR RECTANGULAR TO ROUND TRANSITIONS AS REQUIRED.
- PAINT ALL VISIBLE INTERIOR PORTIONS OF TERMINAL DEVICES & CANS WITH FLAT BLACK ENAMEL PAINT.

SHEET INDEX

SHEET NO.	DESCRIPTION
M0.0	MECHANICAL - SCHEDULES, NOTES & LEGEND
M0.1	MECHANICAL - SPECIFICATIONS SHEET 1
M0.2	MECHANICAL - SPECIFICATIONS SHEET 2
M1.1	MECHANICAL - OVERALL DEMOLITION FIRST FLOOR PLAN
M2.1	MECHANICAL - OVERALL PARTIAL FIRST FLOOR PLAN
M2.2	MECHANICAL - PARTIAL SECOND FLOOR & PARTIAL ROOF PLAN
M5.1	MECHANICAL - EQUIPMENT DETAILS
T24.1	TITLE 24 ENERGY COMPLIANCE REPORT - SHEET 1
T24.2	TITLE 24 ENERGY COMPLIANCE REPORT - SHEET 2

REVISIONS	BY



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ID SET - NOT FOR CONSTRUCTION

MECHANICAL - SCHEDULES, NOTES & LEGENDS

S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA 95206

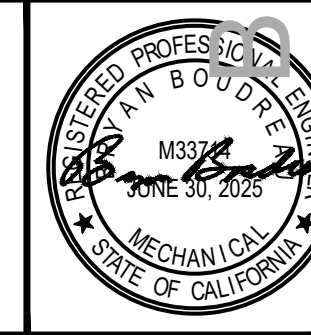
DATE 12 JULY 24

SCALE 1/4"=1'-0"

JOB 658-23-15/2417

MO.0

BOUDREAU ENGINEERING, INC.
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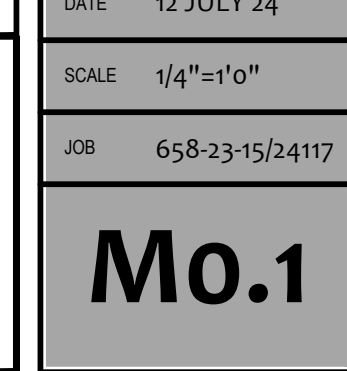


REVISIONS table with columns for revision number, description, and date.



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MECHANICAL - SPECIFICATIONS SHEET 1
S.J. CO.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA 95206
DATE 12 JULY 24
SCALE 1/4"=1'-0"
JOB 658-23-15/2417
Mo.1



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Main specifications table with 10 columns (1-10) and multiple rows containing detailed mechanical and electrical specifications for various components like ductwork, piping, and equipment.

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NOT FOR CONSTRUCTION - 04 NOV 24

FILENAME: A
DRAWING:
24 x 36

C:\Users\2024\1\2417 - 2707 Transworld Dr - Office Addition\24117 - MSpec.dwg, 20/07/24 10:20:50 PM, AutoCAD PDF (High Quality Print).pc3, ARCH full bleed D (56.00 x 24.00 inches)

<p>B. Low Velocity-Low Pressure (up to 2000 ft/ min, up to 2.0 in. water):</p> <p>1. Sheet Metal Ductwork:</p> <p>a. Elbs: Elbs with less than standard radius and square elbs shall be fitted with turning vanes.</p> <p>b. Tees: Tees shall be straight tap-in with extractor or 45 degree takeoff, as shown on drawings.</p> <p>c. Duct Joints: Seal duct joints airtight with fiber tape and adhesive per manufacturer's printed instruction. Ducts in weather shall be sealed air and water tight with duct mastic before closing and taping.</p> <p>i. Where Ductmate type joints are used, the manufacturer's designated procedure shall be followed. Ductmate joints on roof shall have continuous cleat on top duct flange to prevent water from collecting on gasket.</p> <p>d. Dampers: Install volume control damper and damper regulator in all branch ducts.</p> <p>e. Duct dimensions shown on drawings for lined ducts, are clear net openings inside of lining.</p> <p>f. Top of ducts exposed to weather shall be cross broken and sloped slightly to each side to allow rain water to run off. Ducts that do not drain off top will be rejected and need to be replaced at contractor's expense.</p> <p>2. Flexible Glass Fiber Ductwork: Hangers shall be 2" wide metal straps spaced to prevent sagging, 3 feet spacing maximum. Insert 4" wide fiberglass pad between duct and hanging strap. All joints and fittings shall be sheet metal and shall be installed with metal bands or 3 (min) self-tapping screws and fiber tape. Maximum length of flexible duct shall be 7 ft. Single piece minimum length shall be 3 ft. Minimum turn radius shall be in accordance with SMACNA Standards (turn radius to duct centerline not less than 1.5 times the duct diameter).</p> <p>3.02 AIR TERMINALS AND DUCT FITTINGS INSTALLATION:</p> <p>A. General: Unless otherwise noted, all air terminals and duct fittings shall be installed in accordance with current SMACNA "HVAC Duct Construction Standards", details on drawings and manufacturer's instructions. Terminals and fittings shall be installed in a manner to prevent vibration and rattling.</p> <p>B. Fire Smoke Damper: Fire smoke dampers shall be installed in accordance with their State Fire Marshal approval and the manufacturer's recommendations.</p> <p>3.03 DUCTWORK INSULATION INSTALLATION:</p> <p>A. General: All supply and return sheet metal ductwork shall be insulated.</p> <p>B. Concealed Ductwork: Wrap ductwork with fiberglass blanket lapped 2" minimum. Secure with foil tape at all joints for a complete vapor barrier.</p> <p>10</p>	<p>C. Acoustic Lining: All ductwork in equipment rooms, where exposed to weather, and elsewhere as indicated on drawings, shall have acoustic lining. Increase each sheet metal dimension to accommodate lining and maintain clear inside duct dimensions shown on drawings. Apply lining with bonding adhesive in accordance with manufacturer's recommendations and also secure with mechanical fasteners in accordance with SMACNA Standards. Seal exposed edges of lining with bonding adhesive.</p> <p>3.04 PIPING INSTALLATION:</p> <p>A. General:</p> <p>1. Piping Layout: Piping shall be concealed in walls, above the ceilings, or below grade unless otherwise noted. Exposed piping shall run parallel to room surfaces; location to be approved by Architect. No structural member shall be weakened by cutting, notching, boring or otherwise unless specifically allowed by structural drawings and/or specifications. Where such cutting is required, reinforcement shall be provided as specified or detailed. All piping shall be installed in a manner to ensure unrestricted flow, eliminate air pockets, prevent any unusual noise, and permit complete drainage of the system. All piping shall be installed to permit expansion and contraction without strain on piping or equipment. Expansion joints and/or flexible connectors shall be installed as required. Vertical lines shall be installed to allow for building settlement without damage to piping. Lines shall be adequately braced against vertical and lateral movement.</p> <p>2. Pipe Support:</p> <p>a. General: Hangers shall be placed to support piping without strain on joints or fittings. Maximum spacing between supports shall be as specified below. Actual spacing requirements will depend on structural system. Refer to drawings for additional requirements and attachment to structure. Vertical piping shall be supported at floor and ceiling. Support pipe within 12" of all changes in direction. No perforated strap/hanger shall be used in any work.</p> <p>b. Refrigerant Piping: Pipe shall be cut square. Joint surfaces shall be thoroughly cleaned, fitted and erected before brazing. Install specified accessories. After installation, evacuate to 29 inches of mercury, ambient temperature during evacuation shall not be less than 70 degrees F. After evacuation, fill with dry nitrogen to 250 psi and maintain for two-hour period without additional charge. After nitrogen test, purge with refrigerant charged through dryer and maintain holding charge in system and equipment. Refrigerant piping below grade shall be run in 4" (min.) PVC conduit with long radius elbs. Seal ends of conduit watertight.</p> <p>3.05 PIPING INSULATION INSTALLATION:</p> <p>A. Refrigerant Piping: Cover suction piping with foamed plastic insulation. Longitudinal and end seams shall be thoroughly cemented with adhesive in accordance with manufacturer's recommendation. Cover all fittings, unions, valves, and connections. Piping exposed to weather shall be covered with aluminum jacketing, seal all joints and</p> <p>11</p>	<p>seams with grey outdoor mastic or silver silicone sealant. Piping exposed in room shall be covered with piping chase painted to match wall.</p> <p>3.06 EQUIPMENT INSTALLATION:</p> <p>A. General: It shall be the responsibility of the contractor to insure that no work done under other specification sections shall in any way block, or otherwise hinder access panels or diminish the effectiveness of equipment vibration isolation.</p> <p>B. Connections to Equipment: Where size reductions are required for connections to equipment, they shall be made immediately adjacent to the equipment and, if possible, inside the equipment cabinet. Connections made to equipment mounted on vibration isolators shall be with flexible connectors, installed adjacent to equipment.</p> <p>C. Start Up: Engage manufacturer or factory-authorized service representative to perform start up supervision. Manufacturer shall provide on-site start up and commissioning assistance through job completion. Complete installation and start up checks according to manufacturer's written instructions.</p> <p>3.07 SYSTEM AIR BALANCE:</p> <p>A. Scope: Provide the services of a qualified independent test and balance agency certified by the Associated Air Balance Council (AABC) or The National Environmental Balancing Bureau (NEBB) to test, adjust and balance, reset, and record performance of the system to obtain design quantities as specified. Balancing contractor must also be TABB certified and have a C-20 license.</p> <p>B. Qualifications: Prior to commencing work, the agency shall be approved by the Owner's Representative.</p> <p>C. Instruments: All instruments shall be accurately calibrated; calibration histories shall be available for examination. Application of instrumentation shall be in accordance with AABC standards.</p> <p>D. Procedure: General: Balanced quantities shall be plus 5%, minus 5% of design quantities. All name-plate data, manufacturer, model, and serial numbers shall be recorded for each item tested.</p> <p>E. Extended Warranty: The test and balance agency shall include an extended warranty of 90 days after completion of test and balance work, during which time the Owner's Representative at his discretion may request a recheck or resetting of any item or items in test report. The agency shall provide technicians to assist the Owner's Representative in making any tests he may require during this period of time.</p> <p>F. Air Balance Procedure (for each Air Handling System):</p> <p>1. All air filters shall be clean when air balance is performed.</p> <p>12</p>	<p>2. Provide a sketch of the equipment showing exactly where all pressure readings were taken.</p> <p>3. Adjust blower RPM to design requirements.</p> <p>4. Record motor full load amperes.</p> <p>5. Make pitot tube traverse of main supply and return ducts and obtain design CFM at fans.</p> <p>6. Record system static pressures, inlet and discharge.</p> <p>7. Record filter quantity, size(s) and pressure drop across filter(s) at each filter bank.</p> <p>8. Adjust system for design CFM recirculated air.</p> <p>9. Adjust system for design CFM outside air.</p> <p>10. Record entering air temperatures. (DB heating, DB and WB cooling.)</p> <p>11. Record leaving air temperatures. (DB heating, DB and WB cooling.)</p> <p>12. Adjust all main supply and return air ducts to design CFM.</p> <p>13. Adjust all zones to design CFM, supply and return.</p> <p>14. Adjust all diffusers, grilles and registers to plus 10%, minus 0% of design requirements.</p> <p>15. Adjust CFM at all exhaust fans, make-up units, etc. (high and low speed, where applicable). Record applicable data from items 1 through 11 above.</p> <p>16. Each grille, diffuser and register shall be identified as to location.</p> <p>17. Verify proper diffusion pattern for all ceiling grilles and that all sidewall grilles are set for 5 degree downward deflection unless otherwise noted. Make a notation of any that are not set properly.</p> <p>18. Size, type and manufacturer of diffusers, grilles, registers and all tested items shall be identified and listed. Manufacturer's ratings shall be used to make required calculations on all items.</p> <p>19. Readings and tests of diffusers, grilles, and registers shall include required FPM velocity and test resultant velocity, required CFM and test resultant CFM after adjustments.</p> <p>20. In cooperation with the control manufacturer's representative, set adjustments of automatically operated dampers to operate as specified. Testing agency shall check all controls for proper calibrations and list all controls requiring adjustment by control installers.</p> <p>21. All diffusers, grilles and registers shall be adjusted for required air patterns and to minimize drafts.</p> <p>22. As a part of the work of this contract, THE AIR CONDITIONING CONTRACTOR shall make any changes in pulleys, belts, dampers or the addition of dampers cleaning of insect screens and replacement of filters required for correct balance as recommended by air balance agency, at no additional cost to Owner.</p> <p>23. Set, test and adjust packaged heating/cooling unit economizer operation in cooperation with controls contractor. Record minimum and maximum outside and exhaust airflows.</p> <p>G. Test, adjust and reset water bleed rates from evaporative coolers. Record all data.</p> <p>13</p>
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REVISIONS	BY
1	BEB



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MECHANICAL - SPECIFICATIONS SHEET 2

S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA 95206

BOUDREAU ENGINEERING, INC.
 257 N. PALM ST
 TURLOCK, CA 95380
 (209)806-7052
 CONSULTING MECHANICAL ENGINEERS



DATE 12 JULY 24

SCALE 1/4"=1'0"

JOB 658-23-15/2417

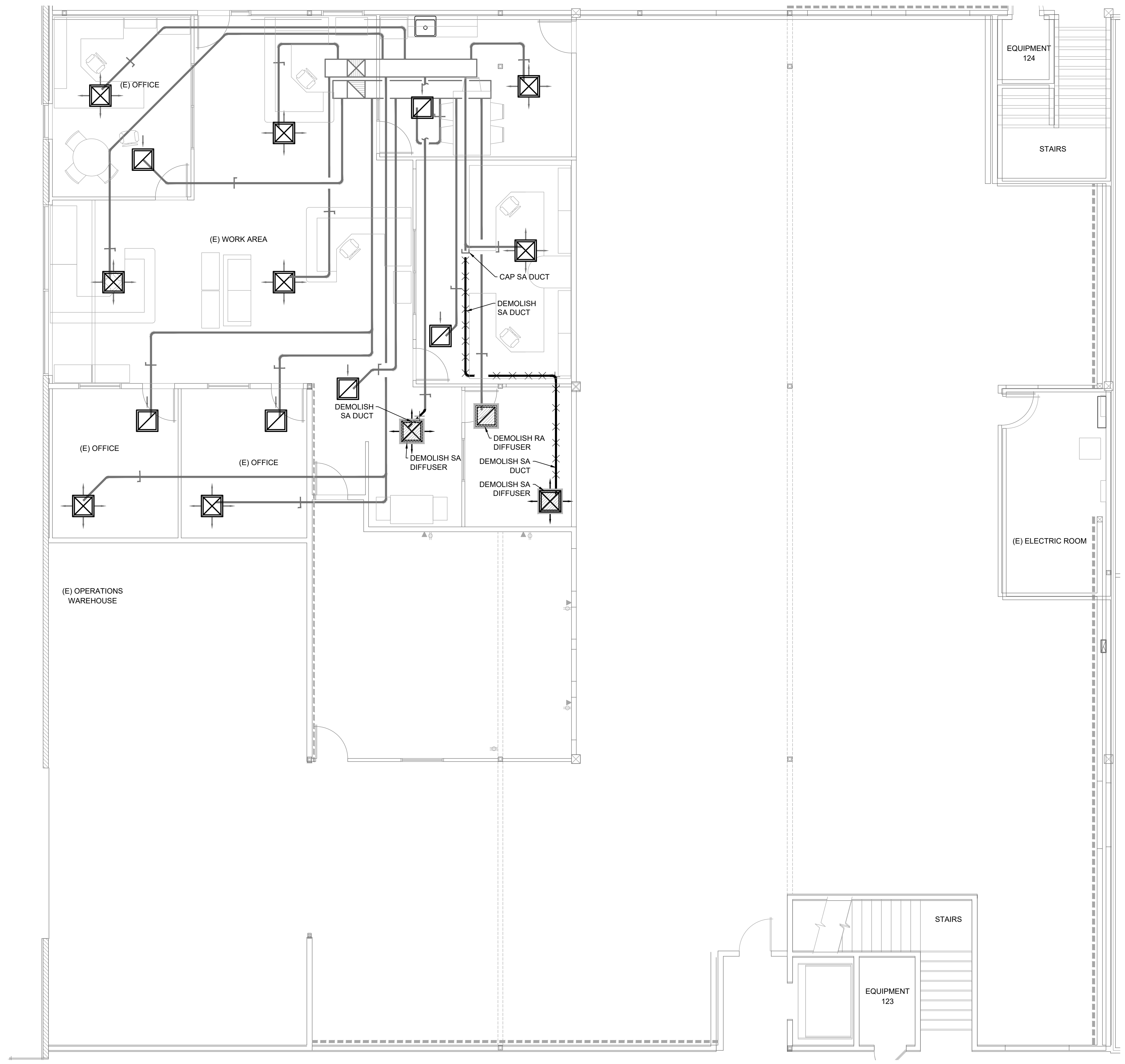
Mo.2

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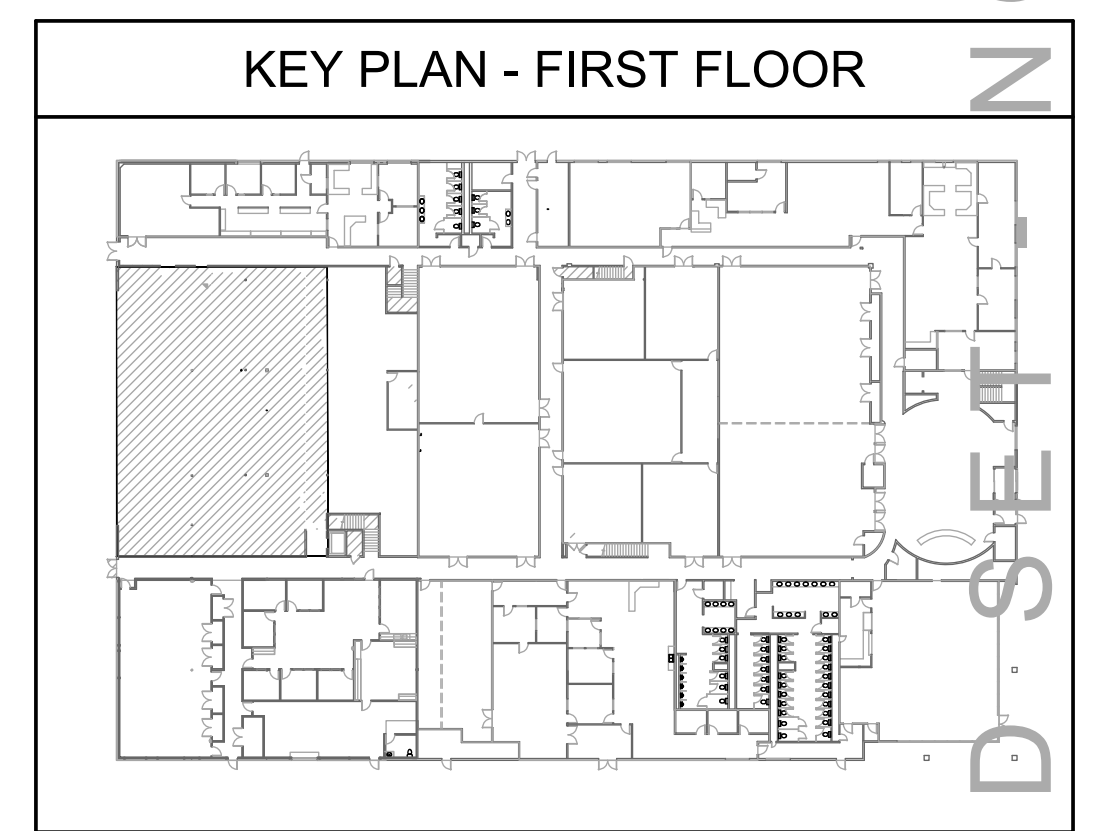
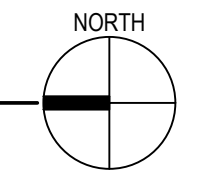
24-38



1
M1.1

MECHANICAL - OVERALL FIRST FLOOR DEMOLITION PLAN

SCALE: 3/16" = 1' - 0"



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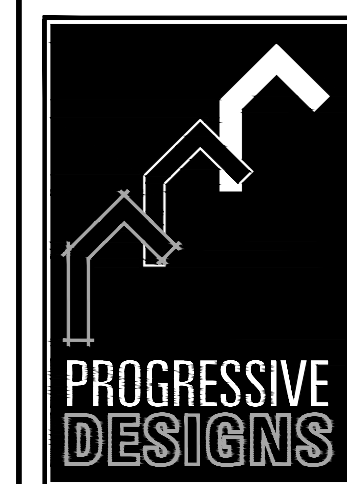
DATE 12 JULY 24

SCALE 1/4"=1'-0"

JOB 658-23-15/24117

M1.1

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1	BEJ
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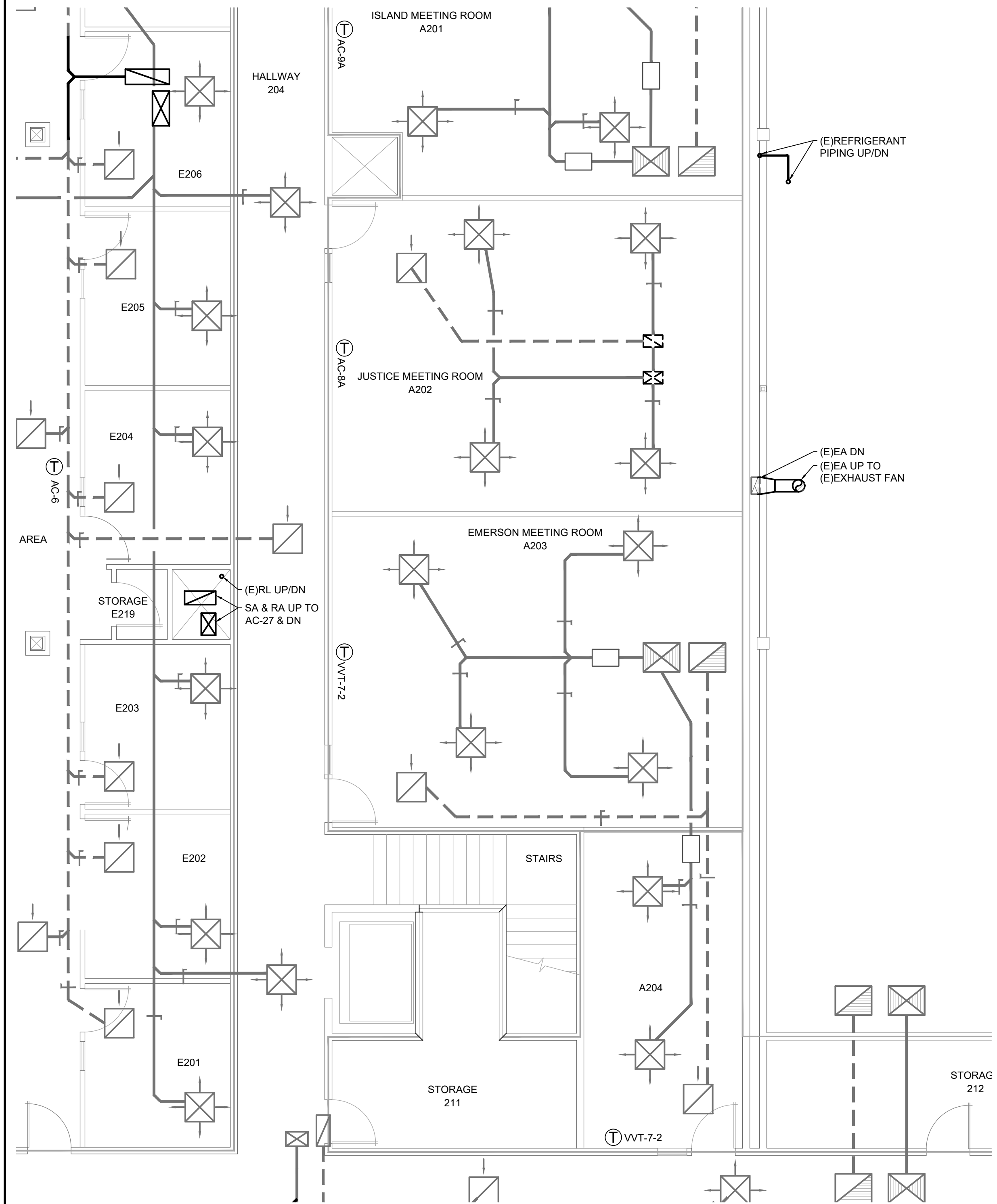
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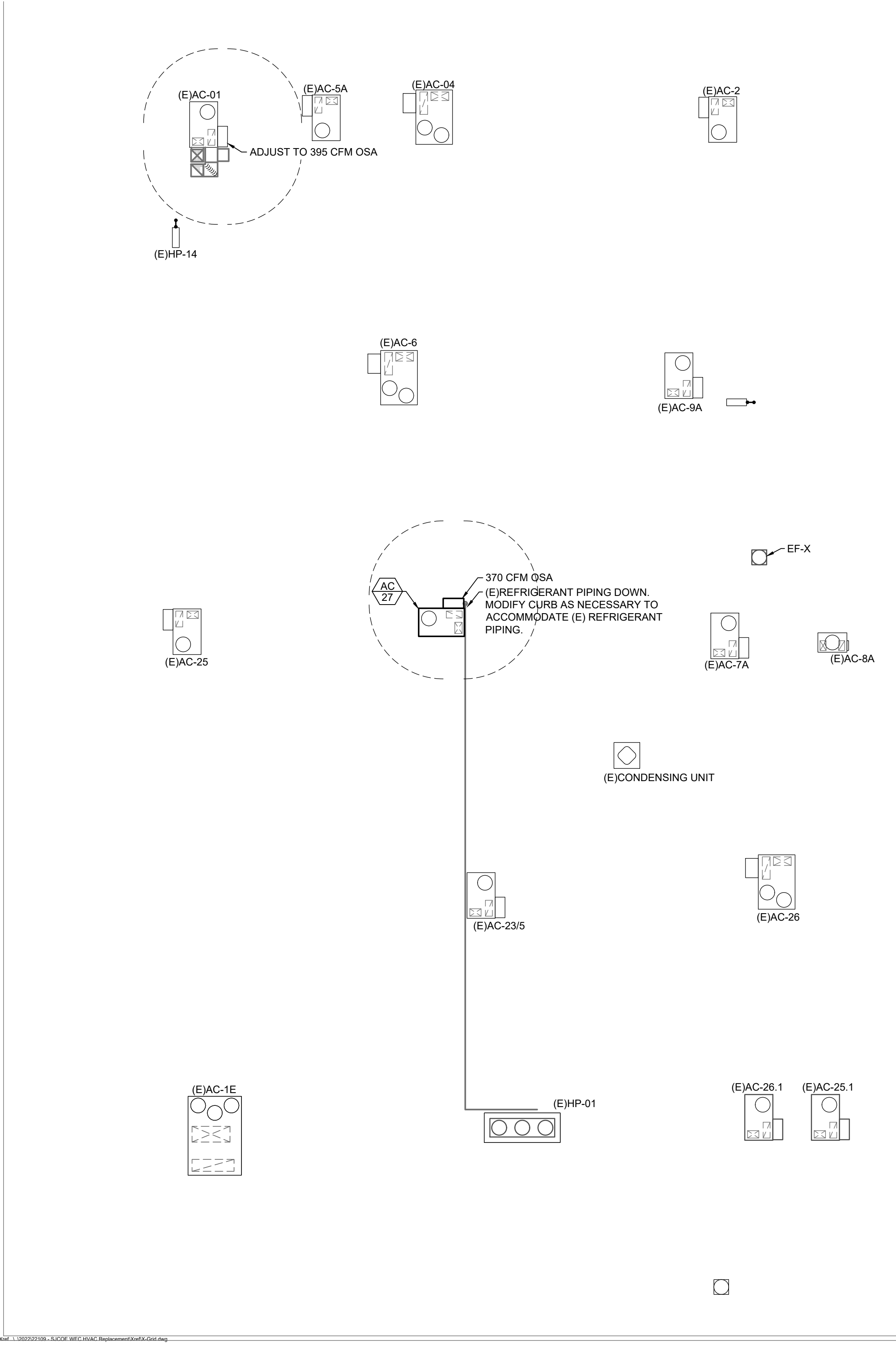
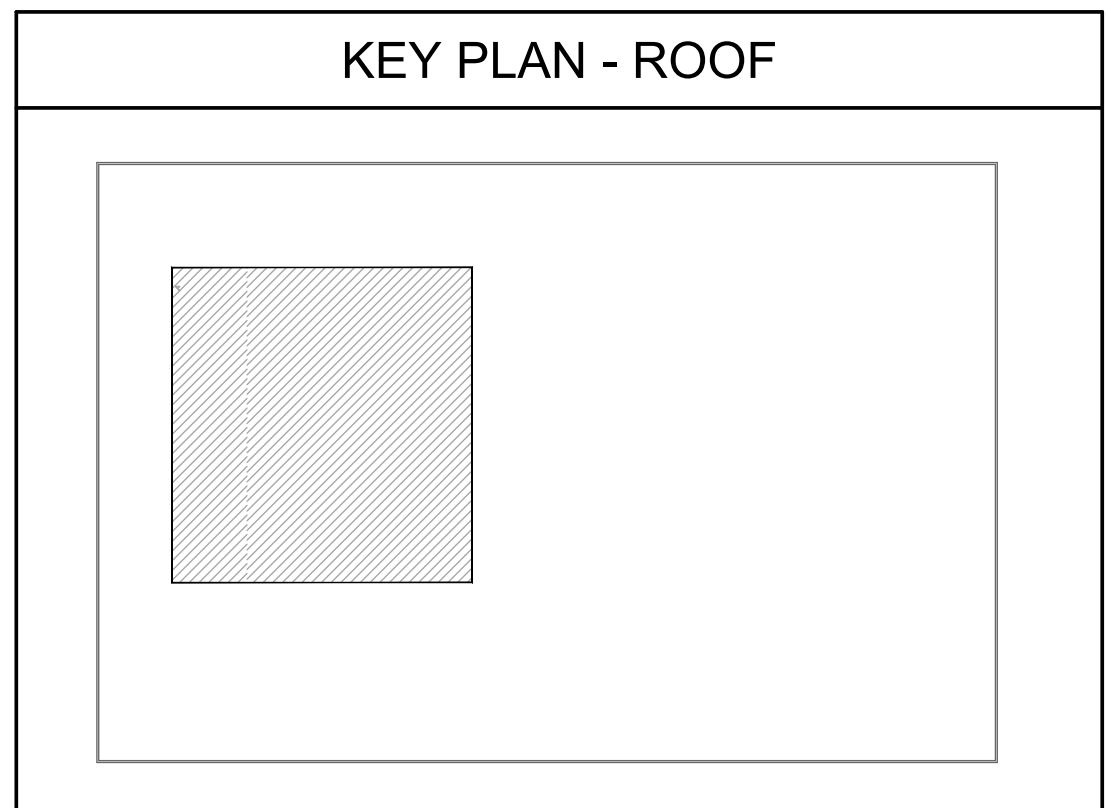
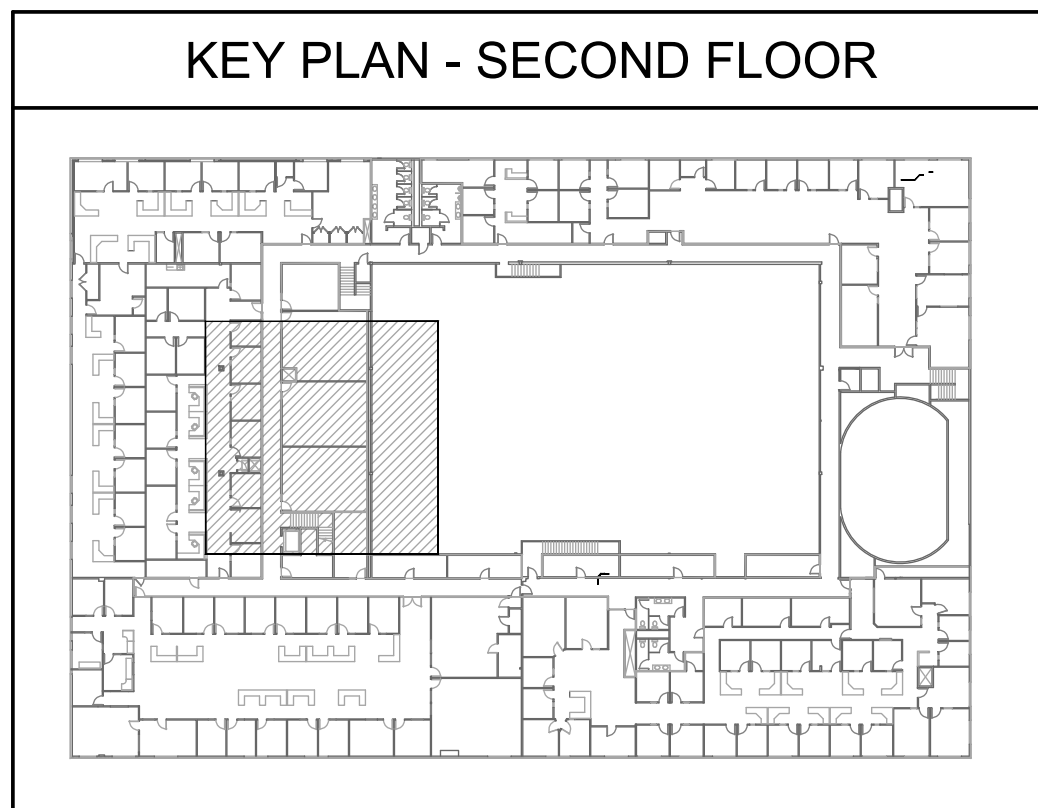
MECHANICAL - OVERALL FIRST FLOOR DEMOLITION PLAN
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24-A-38 DRAWN: A FILENAME: A



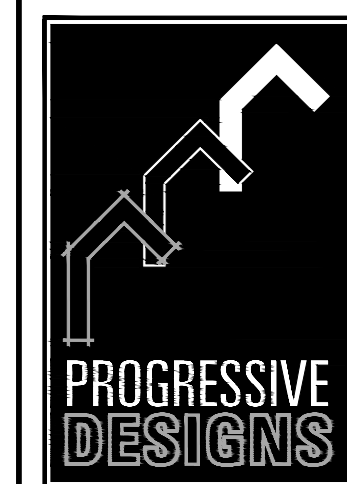
1 MECHANICAL - PARTIAL SECOND FLOOR PLAN
 SCALE: 3/16" = 1' - 0"



2 MECHANICAL - PARTIAL ROOF PLAN
 SCALE: 3/32" = 1' - 0"

ID SET - NOT FOR CONSTRUCTION - 04 NOV 24

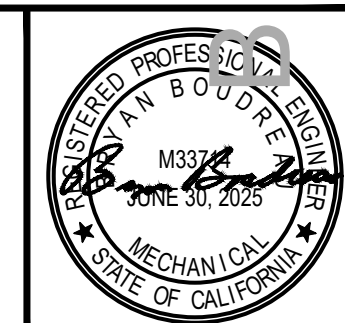
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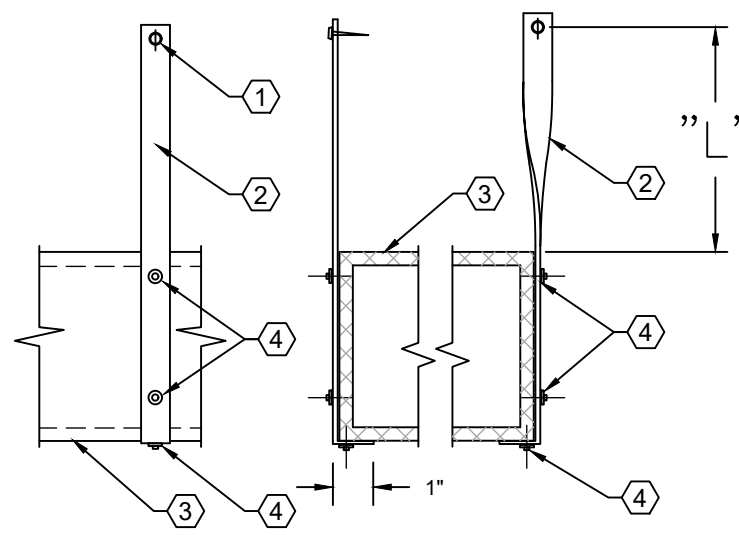
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 MECHANICAL - PARTIAL SECOND FLOOR & PARTIAL ROOF PLAN
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 CONSULTING MECHANICAL ENGINEERS



DATE	12 JULY 24
SCALE	1/4"=1'-0"
JOB	658-23-15/24117
M2.2	



- UPPER ATTACHMENT - SEE HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, SMACNA, CURRENT EDITION. PROVIDE FRAMING, BLOCKING OR STRUCTURAL MEMBER AS MAY BE REQUIRED. COORDINATE STRUCTURAL COMPONENTS WITH STRUCTURAL PLANS OR WITH STRUCTURAL ENGINEER OF RECORD.
- DUCT SUPPORT STRAP, WIRE OR ROD SEE TABLE BELOW FOR DETAILS.
- GALVANIZED SHEET METAL DUCT W/ ACOUSTIC LINING, SEE MECHANICAL PLANS FOR SIZES.
- #10 x 3/4" SELF-TAPPING CADMIUM PLATED SHEET METAL SCREWS TO ANCHOR STRAPS TO DUCT. ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS.

NOTES:

- DUCTWORK SHALL CONFORM WITH, HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, SMACNA, CURRENT EDITION.
- HANGER SHALL BE POSITIVELY ATTACHED TO THE DUCT WITHIN 2" OF THE TOP OF THE DUCT WITH A MINIMUM OF TWO #10 SHEET METAL SCREWS EACH SIDE AND #10 SHEET METAL SCREW ON THE BOTTOM OF DUCT WITHIN 1" OF EACH SIDE.
- DUCT WITH A CROSS-SECTIONAL AREA EQUAL TO OR GREATER THAN 6 SQUARE FEET, AND "L" GREATER THAN 12" REQUIRE SEISMIC BRACING.
- OSHPD ONLY - SUPPLY & RETURN AIR DUCTS SERVING A HOSPITAL OR OTHER MEDICAL BUILDING SHALL NOT HAVE ACOUSTICALLY LINING OR INTERNALLY LINED INSULATION.

TABLE 5-1 RECTANGLE DUCT HANGERS MINIMUM SIZE

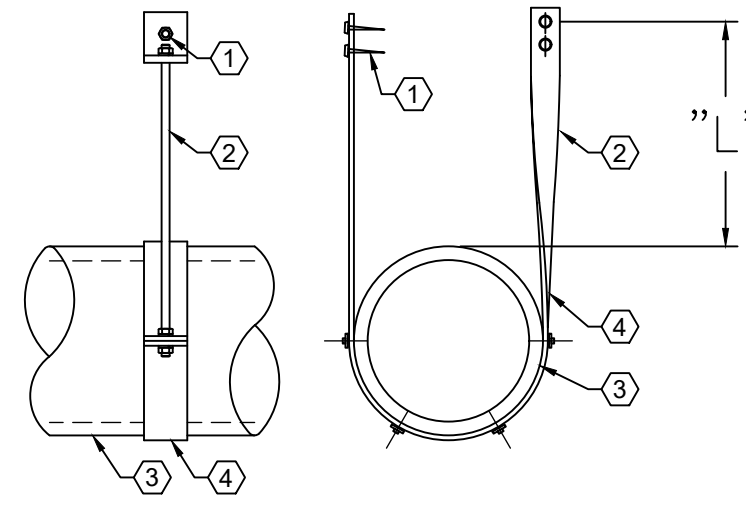
MAXIMUM HALF OF DUCT PERIMETER	PAIR @ 10'-0" SPACING		PAIR @ 8'-0" SPACING		PAIR @ 5'-0" SPACING		PAIR @ 4'-0" SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 = 30"	1"x0.030" (22 GA)	10 GA	1"x0.030" (22 GA)	10 GA	1"x0.030" (22 GA)	12 GA	1"x0.030" (22 GA)	12 GA
P/2 = 72"	1"x0.047" (18 GA)	3/8"	1"x0.036" (20 GA)	1/4"	1"x0.030" (22 GA)	1/4"	1"x0.030" (22 GA)	1/4"
P/2 = 96"	1"x0.058" (16 GA)	3/8"	1"x0.047" (18 GA)	3/8"	1"x0.036" (20 GA)	3/8"	1"x0.030" (22 GA)	1/4"
P/2 = 120"	1 1/2"x0.058" (16 GA)	1/2"	1"x0.058" (16 GA)	3/8"	1"x0.047" (18 GA)	3/8"	1"x0.036" (20 GA)	1/4"
P/2 = 168"	1 1/2"x0.058" (16 GA)	1/2"	1 1/2"x0.058" (16 GA)	1/2"	1"x0.058" (16 GA)	3/8"	1"x0.047" (18 GA)	3/8"
P/2 = 192"	-	1/2"	1 1/2"x0.058" (16 GA)	1/2"	1"x0.058" (16 GA)	3/8"	1"x0.058" (16 GA)	3/8"
P/2 ≥ 193"	SPECIAL ANALYSIS REQUIRED							

WHEN STRAPS ARE LAP-JOINED, USE THESE MINIMUM FASTENERS:
 1"x0.047", 0.036" 0.030" - TWO NO. 10 OR ONE 1/4" BOLT
 1"x0.058" - TWO 1/4" BOLT
 1 1/2"x0.058" - TWO 3/8" BOLT
 PLACE FASTENERS IN SERIES, NOT SIDE-BY-SIDE.

SPECIAL ANALYSIS REQUIRED

SINGLE HANGER MAXIMUM ALLOWABLE LOAD:	
STRAP	WIRE OR ROD (DIA.)
1"x0.030" - 260 LBS	0.108" - 80 LBS
1"x0.036" - 320 LBS	0.135" - 120 LBS
1"x0.047" - 420 LBS	0.162" - 160 LBS
1"x0.058" - 700 LBS	1/4" - 270 LBS
1 1/2"x0.058" - 1100 LBS	3/8" - 680 LBS
	1/2" - 1250 LBS
	5/8" - 2000 LBS
	3/4" - 3000 LBS

NOTES:
 1. DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
 2. TABLES ALLOW FOR DUCT WEIGHT 1 LB./SF INSULATION WEIGHT NORMAL REINFORCEMENT AND TRAPEZE WEIGHT BUT NO EXTERNAL LOADS.
 3. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.
 4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 0.058" (16 GA) MAXIMUM, EXCEPT THAT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60", THEN P/2 MAXIMUM IS 1.25W.
 5. FOR TRAPEZE SIZES SEE, HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, SMACNA, CURRENT EDITION.
 6. 12 GA, 10 GA OR 8 GA WIRE IS STEEL OF BLACK-ANNEALED, BRIGHT BASIC OR GALVANIZED TYPE.
 7. CABLE HANGING SYSTEMS WITH ADJUSTABLE MECHANICAL DEVICE.



- UPPER ATTACHMENT - SEE HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, SMACNA, CURRENT EDITION. PROVIDE FRAMING, BLOCKING OR STRUCTURAL MEMBER AS MAY BE REQUIRED. COORDINATE STRUCTURAL COMPONENTS WITH STRUCTURAL PLANS OR WITH STRUCTURAL ENGINEER OF RECORD.
- HANGER ROD SEE TABLE FOR SIZE SEE TABLE.
- GALV. SHEET METAL DUCT W/ ACOUSTIC LINING, SHEET METAL DUCT W/ EXTERNAL INSULATION OR VENT, SEE PLANS FOR SIZE.
- STRAP, SEE TABLE FOR SIZE.

NOTES:

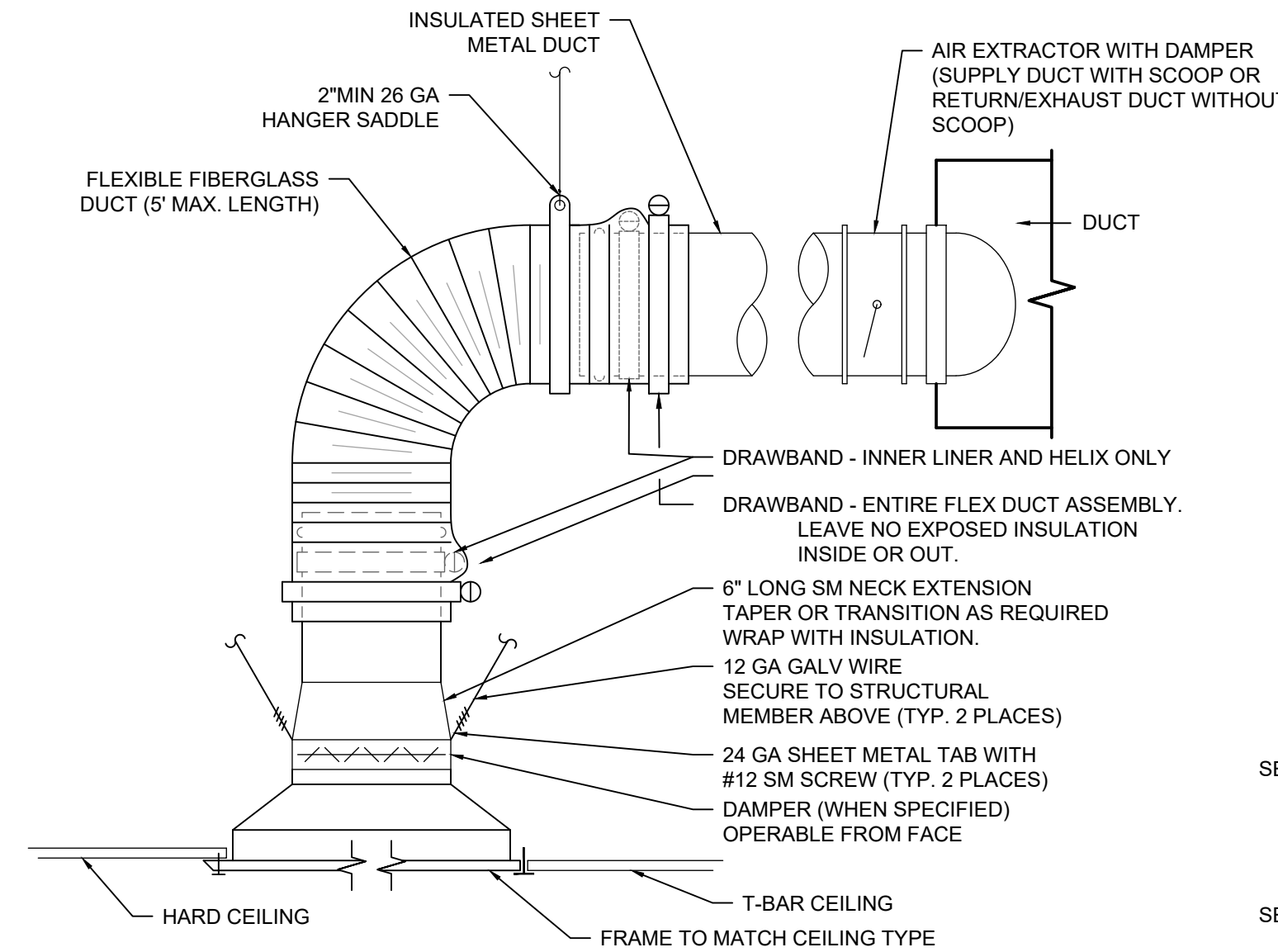
- DUCTWORK SHALL CONFORM WITH, HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, SMACNA, CURRENT EDITION.
- DUCT WITH A CROSS-SECTIONAL AREA EQUAL TO OR GREATER THAN 6 SQUARE FEET, AND "L" GREATER THAN 12" REQUIRE SEISMIC BRACING.
- OSHPD ONLY - SUPPLY & RETURN AIR DUCTS SERVING A HOSPITAL OR OTHER MEDICAL BUILDING SHALL NOT HAVE ACOUSTICALLY LINING OR INTERNALLY LINED INSULATION.

TABLE 5-2 MINIMUM HANGER SIZES FOR ROUND DUCT

DUCT DIAMETER	MAXIMUM SPACING	ROD DIAMETER	STRAP
≥ 10"	12'	1/4"	1" x 0.030" (22 GA.)
11" TO 18"	12'	1/4"	1" x 0.030" (22 GA.)
19" TO 24"	12'	1/4"	1" x 0.030" (22 GA.)
25" TO 36"	12'	3/8"	1" x 0.036" (20 GA.)
37" TO 50"	12'	2 @ 3/8"	2 @ 1" x 0.036" (20 GA.)
51" TO 80"	12'	2 @ 3/8"	2 @ 1" x 0.037" (18 GA.)
81" TO 94"	12'	2 @ 3/8"	2 @ 1" x 0.058" (16 GA.)

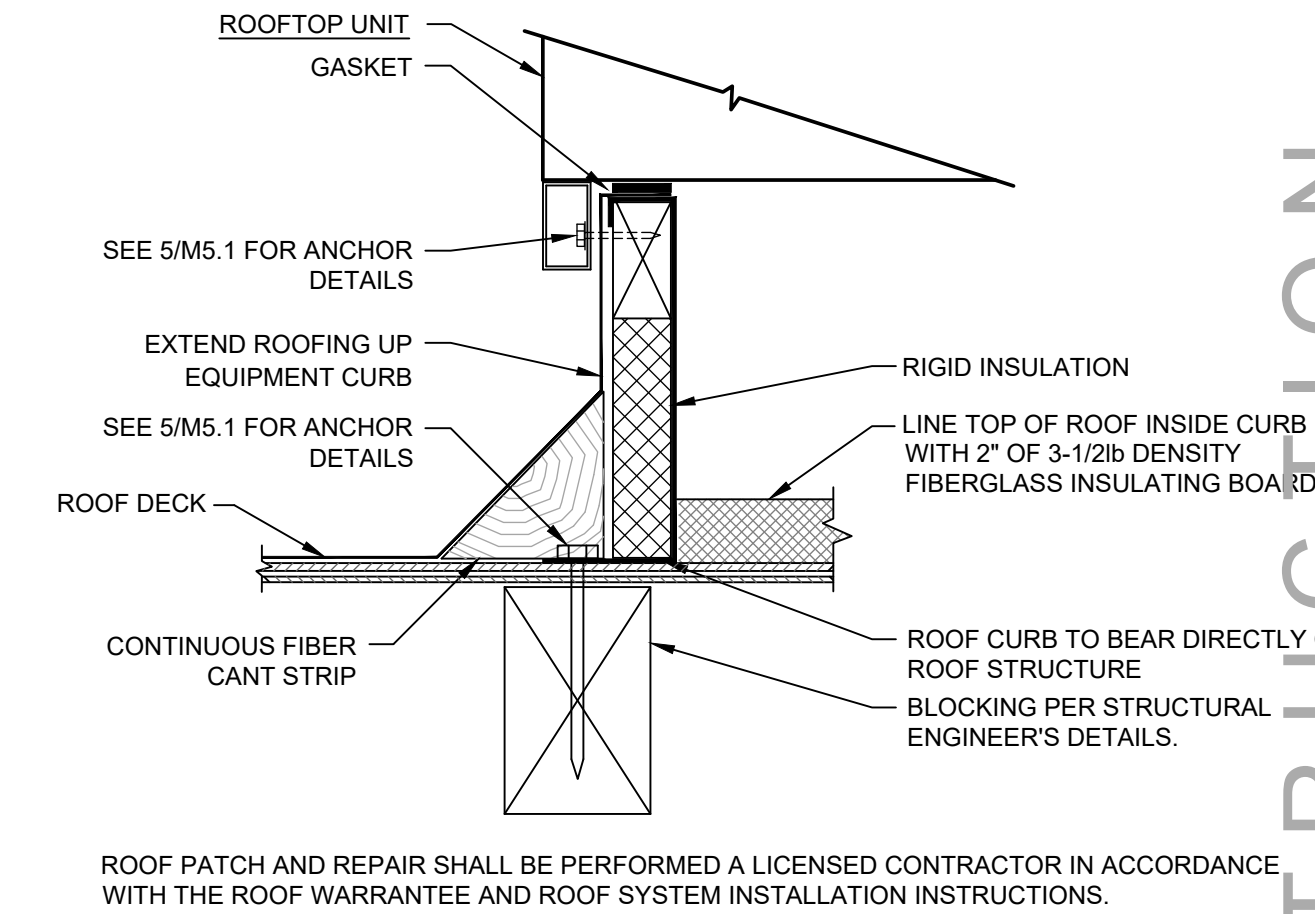
NOTES:

- STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
- TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB./SF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS; SEE ALLOWABLE LOAD LIMITS WITH TABLE 5-1. HANGER SPACING MAY BE ADJUSTED BY SPECIAL ANALYSIS.
- FOR INDUSTRIAL GRADE SUPPORTS, INCLUDING SADDLES, SINGLE POINT TRAPEZE LOADS, LONGER SPANS AND FLANGED JOINT LOADS, SEE SMACNA'S ROUND INDUSTRIAL DUCT CONSTRUCTION STANDARDS.



FLEXIBLE DUCT NOTES:

- FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, FIBER GLASS INSULATION (PER CECC STANDARDS), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTH OF FLEXIBLE DUCT SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
- FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2" WIDE 28 GA. STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. THE MAXIMUM LENGTH WILL BE FIVE (5) FEET AND CAN BE USED AT THE TERMINAL ENDS ONLY. EXCEPT THAT FLEXIBLE DUCTS PROPERLY INSTALLED MAY BE USED TO CROSS SEISMIC JOINTS WITHOUT OFFSETS.



ROOF PATCH AND REPAIR SHALL BE PERFORMED A LICENSED CONTRACTOR IN ACCORDANCE WITH THE ROOF WARRANTY AND ROOF SYSTEM INSTALLATION INSTRUCTIONS.

1 RECTANGULAR DUCT HANGER DETAIL
M5.1 SCALE: NTS

2 ROUND DUCT HANGER DETAIL
M5.1 SCALE: NTS

3 TERMINAL DEVICE CONNECTION DETAIL
M5.1 SCALE: NTS

4 ROOF CURB DETAIL
M5.1 SCALE: NTS

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 PHONE: (951)278-1830 FAX: (951)278-8444 www.canfab.com canfab@canfab.com

FOR: PART NO:
 1005-CB14W-CBC

PITCHED ROOF CURB
 DRAWING MUST ACCOMPANY ALL PITCHED CURB ORDERS
 APPLIES TO STANDARD AND ISOLATION CURBS

ON 12"
 (CIRCLE A, B, C OR D TO SPECIFY DUCT PLACEMENT)

PROJECT: DATE: 01.08.19
 ENGINEER: DISTRIBUTOR:
 DRAWING NUMBER:

CanFab
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 PHONE: (951)278-1830 FAX: (951)278-8444 www.canfab.com canfab@canfab.com

FOR: 1005-CB14W-CBC
 PART NO: 1005-CB

DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H
VARIES MAX 3/4"	37.1875"	87.375"	14.1875"	32.1875"	20.25"	13.875"	N/A

NOTE: DIMENSIONS B & C ARE FROM 12" OF CURB*

ALL WORK SHALL CONFORM TO THE STANDARDS OF 2021 INTERNATIONAL BUILDING CODE & 2022 CALIFORNIA BUILDING CODE

SEISMIC DESIGN CRITERIA
 -SDC = III
 -R = 1.5
 -Rp = 2.0

WIND DESIGN CRITERIA
 -WIND SPEED BY FREE FIELD BUILDING EXPOSURE C
 -EXPOSURE C
 -17% MIN. 3 SECOND GUST WIND

NOTE: PROVIDER TO VERIFY WITH A LICENSED STRUCTURAL ENGINEER THAT THE CURB MEETS THE REQUIREMENTS OF THE STRUCTURE FOR WHICH IT IS BEING USED. PROVIDER TO VERIFY WITH A LICENSED STRUCTURAL ENGINEER THAT THE CURB MEETS THE REQUIREMENTS OF THE STRUCTURE FOR WHICH IT IS BEING USED. PROVIDER TO VERIFY WITH A LICENSED STRUCTURAL ENGINEER THAT THE CURB MEETS THE REQUIREMENTS OF THE STRUCTURE FOR WHICH IT IS BEING USED.

STRUCTURAL REVIEW BY: M&E ENGINEERS INC. No. 4097 STATE OF CALIFORNIA 08/31/2023

PROJECT: IBC 2021/CBC 2022 DATE: 08.23.23
 ENGINEER: DISTRIBUTOR:
 DRAWING NUMBER: PAGE 1 OF 3

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FOR: 1005-CB14W-CBC
 PART NO:

HOLD DOWN DETAIL

TABLE 1 HOLD DOWN CLIP PER CURB

CLIP	CLIP	MAX	MIN	MIN	MIN	MIN	MIN	MIN
1005/6059	1900-SH08-12	12 GA	1.5	2.625	4.5625	1.875	1.0	9.0
3005	3001-SH08-12	12 GA	1.0	4.81	3.875	2.125	1.0	9.0
4027	4905-SH08-12	12 GA	N/A	2.0625	1.875	1.0	9.0	N/A
6037	6907-SH08-12	12 GA	2.0	2.0	1.875	1.0	9.0	N/A
6005	6005-SH12-12	12 GA	N/A	2.0625	4.4062	1.875	1.0	9.0

NOTE: SEE TABLE 1 FOR DESIGNATED HOLD DOWN CLIP PER CURB

ALTERNATIVE HOLD DOWN DETAIL

CLIP LOCATION DETAIL

NOTE: SEE TABLE 2 FOR CLIP LOCATION - ONLY 4047 HAS CLIPS ON THE SHORT SIDE

TABLE 2 CLIP LOCATION

CLIP	EDGE (IN)	SPACING (IN)	SPACING (IN)
1005/6059	7.75	15.46	N/A
4027	7.75	15.46	N/A
6037	7.75	15.46	N/A
4047	7.75	15.5	N/A

PROJECT: IBC 2021/CBC 2022 DATE: 08.23.23
 ENGINEER: DISTRIBUTOR:
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FOR: 1005-CB14W-CBC
 PART NO:

TABLE 3 ALLOWABLE CURB AND UNIT DIMENSION AND WEIGHT

DESIGNATED CURBS	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND	MIN. WIND
1005	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1	SEE PAGE 1

TABLE 4 TABULATED CURB AND ANCHORAGE INFORMATION PER VARYING HEIGHT

	0' < H < 18"	18' < H < 22"	22' < H < 30"	30' < H < 36"
A CURB THICKNESS	14 GA	14 GA	12 GA	12 GA
B EXP ANCHOR	6	6	6	6
C EXP ANCHOR	6	6	6	6
D WELD	3/8"	3/8"	3/8"	3/8"
E SCREWS	1/8"	1/8"	1/8"	1/8"
F SCREWS	1/8"	1/8"	1/8"	1/8"
G DISTANCE	MAX 0.75"	MAX 0.75"	MAX 0.75"	MAX 0.75"
H NO. OF CLIPS	8 (4 ON EACH LONG SIDE)	8 (4 ON EACH LONG SIDE)	8 (4 ON EACH LONG SIDE)	8 (4 ON EACH LONG SIDE)
I CLIP SMS	(4) #12	(4) #12	(4) #12	(4) #12
J CLIP SMS	(8) #12	(8) #12	(8) #12	(8) #12
K ISO RAIL	N/A	N/A	N/A	N/A
L NO. OF ISOLATORS	N/A	N/A	N/A	N/A
M NO. OF STIFFENERS	N/A	N/A	N/A	N/A

PROJECT: IBC 2021/CBC 2022 DATE: 08.23.23
 ENGINEER: DISTRIBUTOR:
 DRAWING NUMBER: PAGE 3 OF 3

5 ROOF CURB DETAILS
M5.1 SCALE: NTS

REVISIONS	BY



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MECHANICAL - EQUIPMENT DETAILS
 S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA 95206

DATE: 12 JULY 24

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

JOB: 658-23-15/24117

M5.1

BODREAU ENGINEERING, INC.
 257 N. PALM ST
 TURLOCK, CA 95380
 (209)806-7052
 CONSULTING MECHANICAL ENGINEERS

ID SET - NOT FOR CONSTRUCTION - 04 NOV 24

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Nonresidential Performance Compliance Method

NRCC-PRF-E
 (Page 9 of 11)

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h)		06 Airflow (cfm)			09 Fan			12 VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-AC-01-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	<input type="checkbox"/>
3-AC-27-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	<input type="checkbox"/>

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCA-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCA-MCH-E - For all buildings with Mechanical Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap AC-27
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC AC-27
Mechanical	NRCA-MCH-05-A - Air Economizer Controls AC-27
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units AC-27

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
 Report Version: 2022.0.000
 Schema Version: rev 20220601
 Report Generated: 2024-10-14 20:05:31
 Compliance ID: EnergyPro-40090-1024-0055

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Nonresidential Performance Compliance Method

NRCC-PRF-E
 (Page 10 of 11)

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
 Report Version: 2022.0.000
 Schema Version: rev 20220601
 Report Generated: 2024-10-14 20:05:31
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Nonresidential Performance Compliance Method

NRCC-PRF-E
 (Page 11 of 11)

Documentation Author's Declaration Statement
 1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Bryan Boudreau
 Company: Boudreau Engineering Inc.
 Address: 257 Palm Street
 City/State/Zip: Turlock, CA 95380-4028

Documentation Author Signature: *Bryan Boudreau*
 Signature Date: 2024-10-14
 CEA/HERS Certification Identification (if applicable): M33714
 Phone: (209)606-7052

Responsible Person's Declaration statement
 I certify the following under penalty of perjury, under the laws of the State of California:

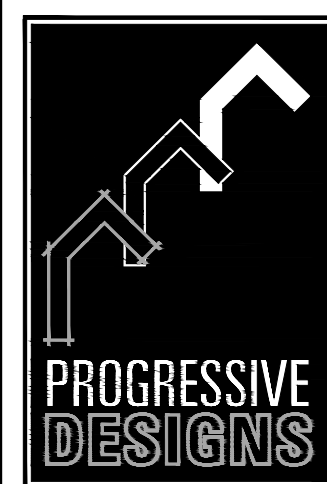
- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
- I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Bryan Boudreau
 Company: Boudreau Engineering Incorporated
 Address: 965 Yosemite Avenue Suite #16
 City/State/Zip: Manteca, CA 95336
 Phone: 2096067052

Responsible Designer Signature: *Bryan Boudreau*
 Date Signed: 2024-10-14
 License #: M33714
 Title: Principal
 Scope:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
 Report Version: 2022.0.000
 Schema Version: rev 20220601
 Report Generated: 2024-10-14 20:05:31
 Compliance ID: EnergyPro-40090-1024-0055

REVISIONS	BY



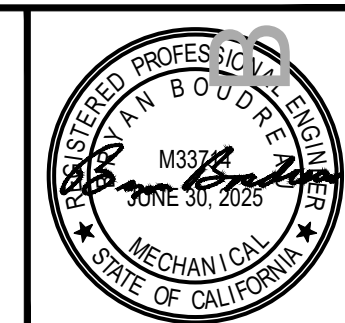
243 N. MAPLE AVENUE, STE B
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THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, COPIED, OR OTHERWISE TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CONSULTING MECHANICAL ENGINEERS. DO NOT REPRODUCE DRAWINGS UNLESS ANY DISCREPANCIES ARE

DATE	12 JULY 24
SCALE	1/4"=1'-0"
JOB	658-23-15/24117
T24.2	

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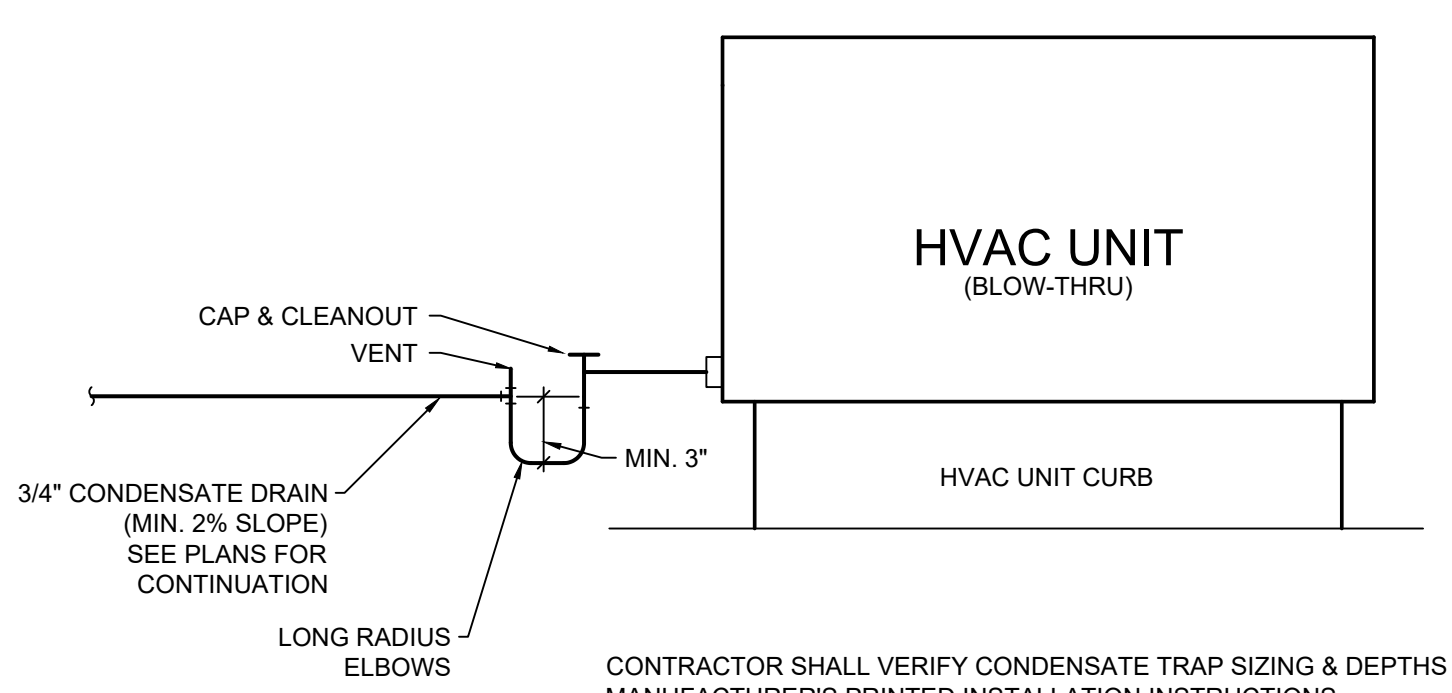
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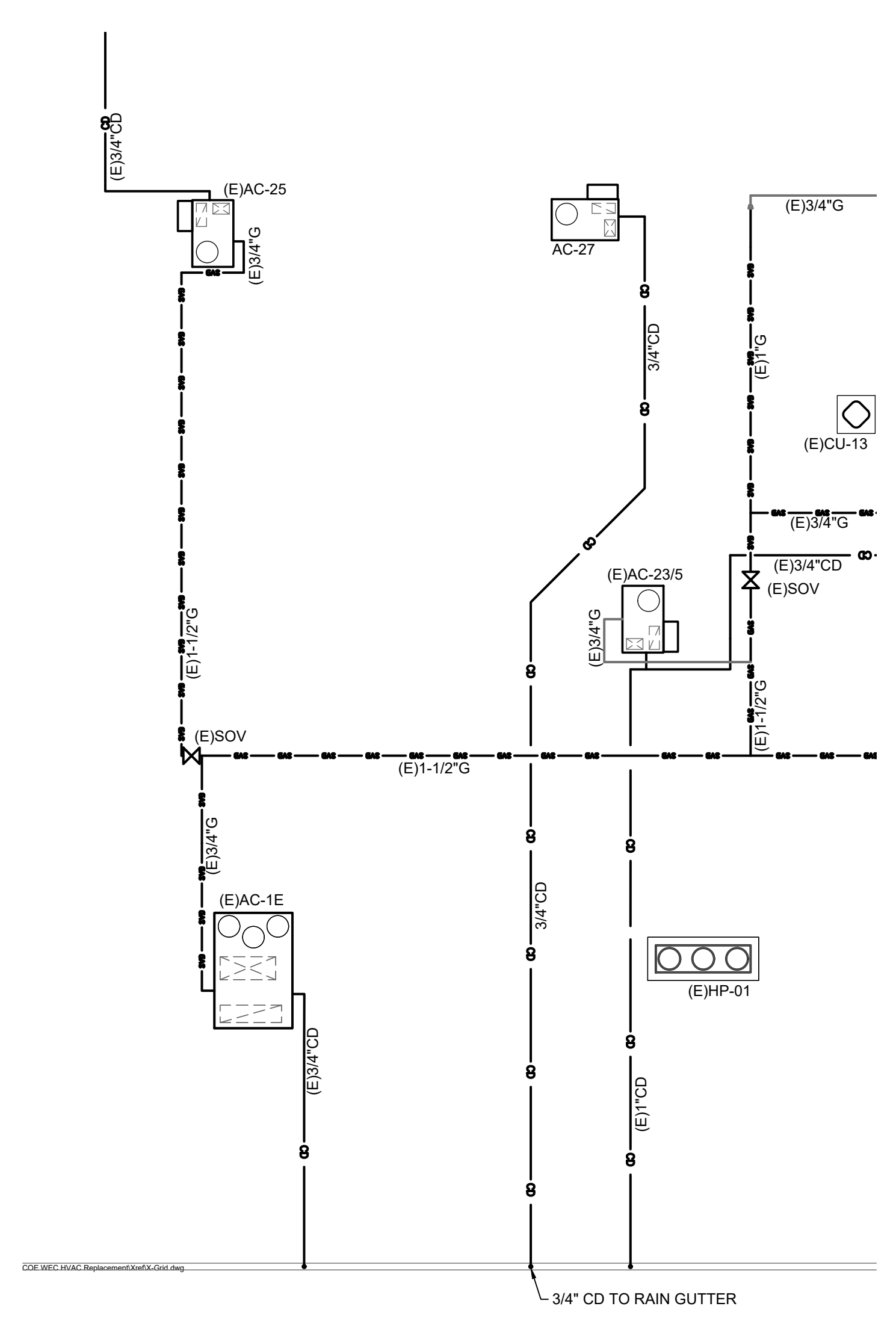
24 x 36

C:\Users\2024\24117 - 2707 Transworld Dr - Office Addition\Ops_TL_T24.dwg, 24/10/24 10:21:16 PM, AutoCAD PDF (High Quality Print).pc3, ARCH full bleed D (36.00 x 34.00 inches)

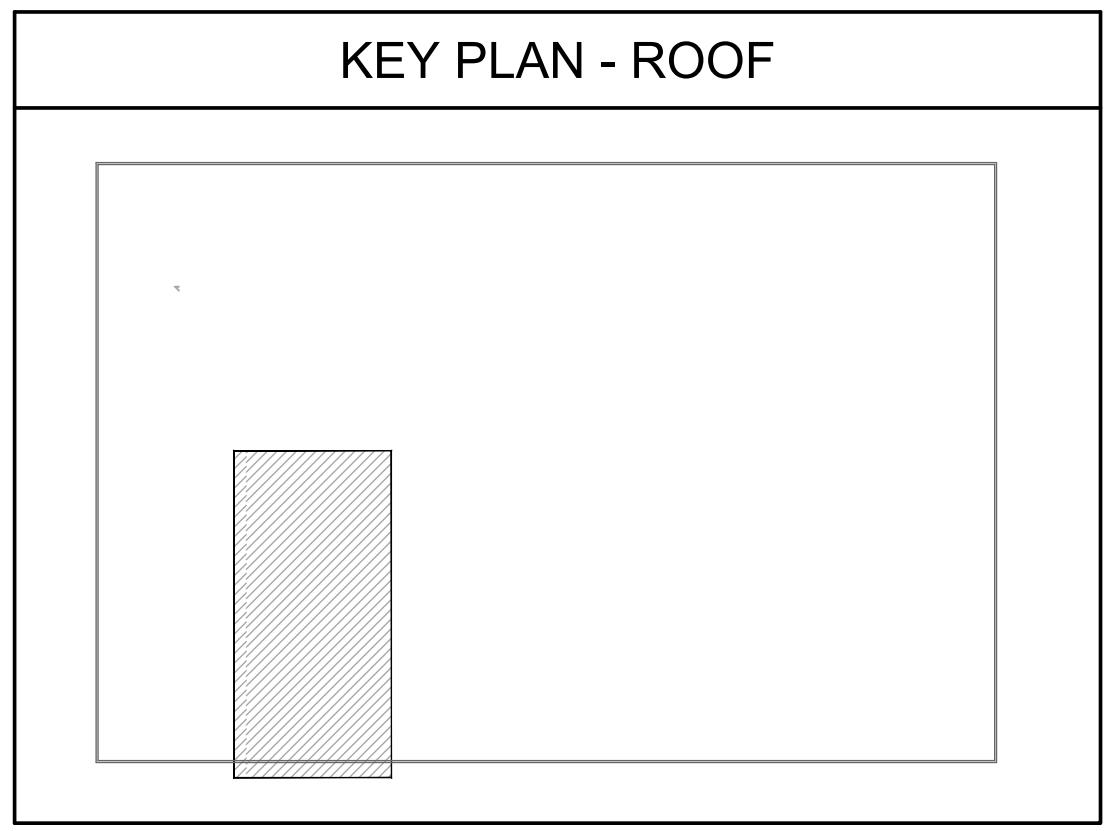
24 JUL 2024 10:34:17 AM AutoCAD PDF (High Quality Print).pc3, ARCH full bleed D (36.00 x 24.00 inches)
 FILENAME: A
 DRAWING:



1
P0.0 RTU CONDENSATE DETAIL
 SCALE: NOT TO SCALE



1
P2.3 PLUMBING - OVERALL ROOF PLAN
 SCALE: 3/16" = 1' - 0"
 NORTH



PLUMBING GENERAL NOTES

- SCOPE: CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES, EQUIPMENT, AND SERVICE PIPING AS GENERALLY DELINEATED ON THE PLUMBING DRAWINGS. WORK SHALL INCLUDE SERVICE PIPING AND FINAL CONNECTIONS TO EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AS MAY BE SHOWN ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS OF THE CONTRACT DOCUMENTS.
- CALIFORNIA CODE OF REGULATIONS: ALL HOT WATER DISTRIBUTION AND CIRCULATION LINES SHALL BE INSULATED IN ACCORDANCE WITH SECTION 120.3 OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6, SUBCHAPTER 3.
- ALL PLUMBING FIXTURES & EQUIPMENT USED (E.G. SHOWERHEADS, LAVATORY FAUCETS, SINK FAUCET AND WATER HEATERS) SHALL BE CERTIFIED TO COMPLY WITH EFFICIENCY STANDARDS, AS LISTED BY THE CALIFORNIA ENERGY COMMISSION FOR SUCH APPLIANCES, BY ITS MANUFACTURER, CODES:
- ALL WORK, MATERIAL, AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT THE INSTALLATION OF WORK, MATERIAL OR EQUIPMENT NOT CONFORMING TO THESE OR OTHER CODES APPLICABLE TO THIS PROJECT.
 - 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1.
 - 2022 CALIFORNIA BUILDING CODE (CBC), CCR TITLE 24, PART 2, BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC).
 - 2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR TITLE 24, PART 3, BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC).
 - 2022 CALIFORNIA MECHANICAL CODE (CMC), CCR TITLE 24, PART 4, BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC).
 - 2022 CALIFORNIA PLUMBING CODE (CPC), CCR TITLE 24, PART 5, BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC).
 - 2022 CALIFORNIA ENERGY CODE (CEC), CCR TITLE 24, PART 6.
 - 2022 CALIFORNIA FIRE CODE (CFC), CCR TITLE 24, PART 9, BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC).
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALGREEN®, CCR TITLE 24, PART 11.
- WORKMANSHIP: ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. EQUIPMENT, FIXTURES, PIPING, ETC., SHALL BE PLUMB, LEVEL, SQUARE AND/OR CENTERED, ETC. EQUIPMENT TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- EXISTING INFORMATION: LOCATION, SIZE, ELEVATION, MATERIAL, ETC., OF EXISTING UTILITIES IS PROVIDED FROM SOURCES DEEMED RELIABLE BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL DATA BEFORE PROCEEDING WITH ANY WORK. NO EXTRA COST WILL BE ALLOWED FOR SERVICES NOT AS SHOWN.
- PERMITS AND UTILITY SERVICE FEES: THE PLUMBING CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS, AND SERVICE CHARGES REQUIRED FOR THE INSTALLATION OF THE WORK.
- ACCURACY: PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND LOCATION OF WALLS, PARTITIONS, FIXTURES, ETC., AGAINST DESIGN PLANS FOR CONSISTENCY AND ACCURACY PRIOR TO COMMENCING WORK.
- PROVIDE AND INSTALL CONDENSATE DRAIN WITH TRAP AT EACH A/C UNIT PER THE CPC, AT LOCATIONS SHOWN ON DRAWINGS. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR.
- PROVIDE AND INSTALL ACCESS PANELS FOR ALL SHUT-OFF, ISOLATION, OR BRANCH VALVES NOT READILY ACCESSIBLE. ACCESS PANELS SHALL BE PROVIDED AND INSTALLED AT ALL TRAP PRIMER VALVES AND WATER HAMMER ARRESTORS.
- ALL PIPING PASSING THROUGH CONCRETE FLOORS SHALL BE SLEEVED TO PROTECT PIPING AGAINST BREAKAGE.
- HORIZONTAL DRAINAGE PIPING LESS THAN 4" IN DIAMETER SHALL BE SLOPED AT A MINIMUM OF 1/4" PER L.F. (2%) DRAINAGE PIPING 4" AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8" PER L.F. (1%).
- ALL PLUMBING FIXTURES AND PIPING SHALL BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED.
- INSULATING MATERIALS APPLIED TO THE SURFACE OF DUCTS AND PIPES SHALL HAVE A FLAME INDEX NOT TO EXCEED 25 AND A SMOKE-DEVELOPED INDEX NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER 2022 CMC, SECTION 602.2.
- DISINFECT ALL DOMESTIC WATER PIPING PER 2022 CPC SECTION 609.10.
- PRESSURE TEST WATER PIPING PER 2022 CPC SECTION 609.4.
- PRESSURE TEST WASTE PIPING PER 2022 CPC SECTION 712.0.

PIPING MATERIAL SPECIFICATIONS

- A. CONDENSATE DRAIN: (CD)
 PIPE: COPPER TYPE L PER ASTM B-88
 FITTINGS: WROUGHT COPPER PER ANSI 16.22

PLUMBING LEGEND

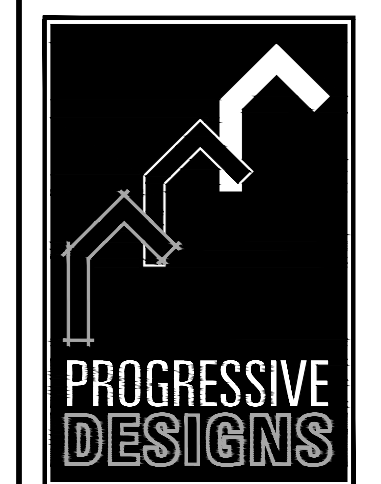
SYMBOL	ABBREVIATION	DESCRIPTION
---	SS	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
---	SS	SOIL, WASTE OR SANITARY SEWER OVERHEAD
---	V	VENT PIPING
---	CW, ICW	COLD WATER, INDUSTRIAL COLD WATER
---	HW, IHW (110")	HOT WATER SUPPLY, INDUSTRIAL HOT WATER
---	HWR	HOT WATER RETURN
---	G	NATURAL GAS
XXXXXX	(E)	EXISTING TO BE REMOVED
D OR IW	D OR IW	DRAIN OR INDIRECT WASTE
---	CD	CONDENSATE DRAIN
---	AFG	ABOVE FINISHED GRADE
---	AD, AP	ACCESS DOOR, ACCESS PANEL
---	AC	AIR CHAMBER
---	BV	BALL VALVE
---		BRANCH - TOP CONNECTION
---		BRANCH - BOTTOM CONNECTION
---		BRANCH - SIDE CONNECTION
---	CBV	CALIBRATED BALANCE VALVE
---	BFV	BUTTERFLY VALVE
---	CB, RD	CATCH BASIN, ROOF DRAIN
---	CKV	CHECK VALVE
---	CO	CLEANOUT PLUG
---	CR	CONCENTRIC REDUCER
---	DIA	DIAMETER
---	ER	ECCENTRIC REDUCER
---	FC	FLEXIBLE CONNECTOR
---	FCO	FLOOR CLEANOUT
---	FD	FLOOR DRAIN
---	GV	GATE VALVE
---	GSCK, PC	GAS COCK, PLUG COCK
---	GPR	GAS PRESSURE REGULATOR
---	GL, V	GLOBE VALVE
---	GCO	GRADE CLEANOUT
---	HB	HOSE BIBB
---	AN	PIPE ANCHOR
---	PG	PIPE GUIDE
---	POC	POINT OF CONNECTION
---	PRV	PRESSURE REDUCING VALVE
---	PG	PRESSURE GAUGE
---	T&PR	TEMPERATURE & PRESSURE RELIEF VALVE
---	SOV	SHUT OFF VALVE
---	STR	STRAINER
---	TH	THERMOMETER
---	TP	TRAP PRIMER
---	UN	UNION OR FLANGE
---	WCO	WALL CLEANOUT

SHEET INDEX

SHEET NO.	DESCRIPTION
P0.0	PLUMBING - LEGEND, NOTES & SCHEDULES, PARTIAL PLAN & DETAILS
P0.1	PLUMBING - SPECIFICATIONS SHEET 1
P0.2	PLUMBING - SPECIFICATIONS SHEET 2

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REVISIONS	BY



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PLUMBING - SCHEDULES, NOTES & LEGENDS, & EQUIPMENT
S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CALIFORNIA 95206

DATE	12 JULY 24
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JOB	658-23-15/24117
P0.0	

BOUDREAU ENGINEERING, INC.
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 TURLOCK, CA 95380
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 CONSULTING MECHANICAL ENGINEERS

REVISIONS, REVISION, 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, A-Z

Main drawing content divided into 8 columns and 10 rows. Each cell contains technical specifications for plumbing sections: SECTION 15400 GENERAL PLUMBING PROVISIONS, PLUMBING SECTION 15400, and PART 2 - MATERIALS. Includes general conditions, codes, excavation, openings, fixtures, and equipment requirements.

Table of technical specifications for piping materials and installation. Includes tables for 'Screened Pipe' (Pipe Size Between Supports vs Max. Spacing) and 'Joints'. Lists requirements for pipe supports, hangers, and installation practices for various pipe materials and sizes.

Project identification and contact information: ID SET - NOT FOR CONSTRUCTION - 04 NOV 24, PLUMBING - SPECIFICATIONS SHEET 1, S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT, 2707 TRANSWORLD DRIVE, STOCKTON, CALIFORNIA 95206, BOUDREAU ENGINEERING, INC., 257 N. PALM ST, TURLOCK, CA 95380, (209)806-7052, CONSULTING MECHANICAL ENGINEERS, DATE 12 JULY 24, SCALE 1/4"=1'-0", JOB 658-23-15/2417, P0.1

5. Excavation and Backfill: Minimum cover on all piping shall be as follows unless otherwise noted:
 a. Lip to 2-1/2" pipe - 24" cover.
 b. 1" and larger pipe - 30".

6. Miscellaneous:
 a. Escutcheons: Provide chromium plated escutcheons where piping penetrates walls, ceilings or floors in finished areas.
 b. Pipe Sleeves: All piping passing through concrete shall be provided with pipe sleeves. Allow 1" clearance between sleeve and pipe or pipe insulation.
 c. Dielectric Couplings: Dielectric couplings shall be installed wherever piping of dissimilar metals are joined.
 d. Shock Absorbers: Install per manufacturer recommendations.

B. Sanitary Sewer Piping
 1. General: Where inverts are not indicated, sanitary sewer piping shall be installed at 1/4" per foot pitch. Piping 4" and larger may be installed at 1/8" per foot pitch where structural or other limitations prevent installation at a greater pitch.
 2. Cleanouts: Install cleanouts at ends of lines, at changes of direction greater than 45 degrees, and at not greater than 100 foot intervals. Locate interior cleanouts in accessible locations and bring flush to finished surface. Cleanouts at urinals shall be installed above urinal.
 3. Vents: Vents shall terminate not less than 6" above the roof nor less than 12" from any vertical surface nor within 10 feet of any outside air intake. Install horizontal vent lines at 1/4" per foot pitch. Offset vents 2 feet minimum from gutters, parapets, ridges and roof flashing.
 C. Water Piping: Connections to branches and risers shall be made from the side of the main. Supply header in fixture battery shall be full size to last fixture, reducing in size only on individual connections to each fixture in battery. Provide ball valve shutoff for each building and at each connection to equipment and trap primers. Shock absorbers shall be installed in a vertical position at end of branch runs as specified in this section whether specifically shown or not on drawings. Connections to equipment shall be made with flexible connectors. Non-metallic pipe shall have 18 AWG copper tracer wire laid on top of pipe and taped in place at 15-foot spacing, terminate 4" above grade at ends of pipe runs.
 D. Gas Piping: Shall be pitched to drain to drip legs at each piece of equipment. No unions shall be installed except at connections to equipment. Provide shutoff at each equipment connection. Connections to equipment shall be made with flexible connectors. Under floor piping shall be sleeved, sealed and vented. Polyethylene or polyvinyl chloride pipe and fittings shall be joined in accordance with manufacturer's recommendation. Metal-to-plastic transition fittings shall be installed at all transitions. Non-metallic pipe shall have 18 AWG copper tracer wire laid on top of pipe and taped in place at 15-foot spacing, terminate 4" above grade at ends of pipe runs. All gas below grade shall have continuous caution tape installed 12" above gas line. All exposed gas piping shall be primed and painted, see painting section.

9

E. Condensate Drain Piping: Install with constant pitch to receptacle, 1/4" per foot where possible, otherwise 1/8" per foot minimum. Provide trap at each air handling unit to prevent air leakage. Connections to equipment shall be made with flexible connection unless connection is internally isolated.

F. Storm Drain Piping: Install at 1/4" per foot pitch.

G. Floor Piping: Floor piping shall be installed in accordance with its UL listing and manufacturer's instructions.

3.02 PIPING INSULATION INSTALLATION
 A. Domestic Tempered Water Supply:
 1. General: All domestic tempered water supply piping, except for exposed connections to fixtures, shall be insulated.
 2. Install elastomers pipe insulation by slipping over end of pipe. Where not feasible, slit insulation longitudinally, snap over piping and seal with adhesive. Insulate fittings with larger diameter sleeves or insulation, lapping pipe insulation a minimum of 2 in.
 3. Butt sections of insulation tightly together and seal with adhesive to provide a continuous vapor and thermal barrier.
 4. Pipe: Apply pre-molded fiberglass sections to pipe using integral pressure sealing lap adhesive in accordance with manufacturer's recommendations. Stagger longitudinal joints. Seal butt joints with factory supplied sealing tape.
 5. Fittings and Valves:
 a. Wrap fitting with pre-cut fiberglass blanket to thickness matching adjoining insulation. Cover blanket with PVC jacket in accordance with manufacturer's recommendations. Seal all joints with factory supplied pressure sealing vapor barrier tape with 2" (min) overlap on both sides of joint. Insulate valves to stem.
 b. For miscellaneous fittings for which PVC jackets are not available or where proximity of fittings precludes a neat-appearing installation, the contractor may cover the fiberglass blanket with stretchable glass fabric and at least two coats of vapor barrier coating. All exposed ends of insulation shall be adequately sealed.
 B. ADA Compliant Fixtures:
 1. At sink/ lavatories which are to be ADA Compliant, the p-trap and angle stop assemblies shall be insulated with Trap Wrap Protective Kit 500K by Brocar, Truetro Handi Lav-Guard #102W or #105W or equal. Abrasion resistant exterior cover shall be smooth and have 1/8" wall minimum over cushioned foam insert. Fasteners shall remain substantially out of sight.

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3.03 FIXTURE INSTALLATION:
 A. Fixture Height: Shall be standard height except those specified as ADA Compliant. Such fixtures shall be mounted in accordance with CCR Title 24, Section 11158.7 and drawing details.
 B. Wall Hung Fixtures: Shall be provided with proper backing and hanger plates secured to wall. Fixtures mounted on carriers shall bear against stop nuts, clear of wall surface. Caulk fixtures against walls with white G.E. "Sanitary SCS700" silicone sealant. Caulking shall be smooth and flush with fixture surface (not concave).
 C. Floor Drains or Floor Sinks: Shall be placed parallel to room surfaces, set level, flush with floor and adjusted at proper height to drain and easily accessible for inspection and cleaning. Cover openings during construction to keep all foreign matter out of drain line.
 D. Other Connections: Rough-in and connection for trim or fixtures supplied by others shall be included in this specification section.
 E. Floor Mounted Fixtures: Shall be provided with proper support plates. Caulk fixtures against floors with white G.E. "Sanitary SCS700" silicone sealant. Caulking shall be smooth and flush with fixture surface (not concave).

3.04 EQUIPMENT INSTALLATION:
 A. General: It shall be the responsibility of the equipment installer to insure that no work done under other specification sections shall in any way block, or otherwise hinder the equipment.
 B. Connections to Equipment: Where size reductions are required for connections to equipment, they shall be made immediately adjacent to the equipment and, if possible, inside the equipment cabinet.

3.05 TESTS AND ADJUSTMENTS:
 A. General: Unless otherwise directed, tests shall be witnessed by the Owner's Representative. Work to be concealed shall not be enclosed until prescribed tests are made. Should any work be enclosed before such tests, the Contractor shall, at his expense, uncover, test and repair his work, and that of other contractors, to original conditions. Leaks and defects shown by tests shall be repaired and entire work retested. Tests may be made in sections. However, all connections between sections previously tested and new section shall be included in the new test. New sections shall be isolated from existing sections for testing purposes. There shall be no drop in pressure during test except that due to ambient temperature changes. All components of system not rated for test pressure shall be isolated from system before test is made. Test the new sections or branches of piping only.

11

B. Gravity System:
 1. Sanitary Sewer: All ends of the new sections of sewer system shall be capped and lines filled with water to the top of the highest vent, 10 feet above grade minimum. This test shall be made before any fixtures are installed. Test shall be maintained until all joints have been inspected, but no less than 2 hours.
 2. Condensate Piping: Maintain 15 psig water pressure for a duration of 4 hours.
 C. Pressure Systems:
 1. General: There shall be no drop in pressure during test except that due to ambient temperature changes. All components of system not rated for test pressure shall be isolated from system before test is made. Test the new sections or branches of piping only.
 2. Domestic Tempered & Cold Water Piping: Maintain 60 psig water pressure for a minimum duration of 2 hours.
 3. Gas Piping: Maintain 60 psig air pressure for a minimum duration of 2 hours.
 D. Accessible Lavatories:
 1. Faucet controls and operating mechanisms shall be installed and tested to comply per CBC Section 11B-606.4.

3.06 DISINFECTION:
 A. Disinfect all domestic hot and cold water piping systems in accordance with AWWA Standard C651, "AWWA Standard for Disinfecting Water Mains". Disinfection process shall be performed by certified testing agency or in cooperation with health department having jurisdiction and witnessed by a representative of the Architect. During procedure, signs shall be posted at each water outlet stating, "Chlorination - Do Not Drink". After disinfection, water samples shall be collected by certified testing agency or by health department for bacteriological analysis. Certificate of Bacteriological Purity shall be obtained and delivered to the Owner through the Owner's Representative.

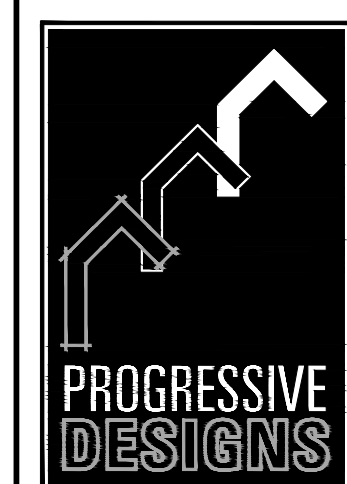
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END OF SECTION

12

PLUMBING - SPECIFICATIONS SHEET 2

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1	BEB

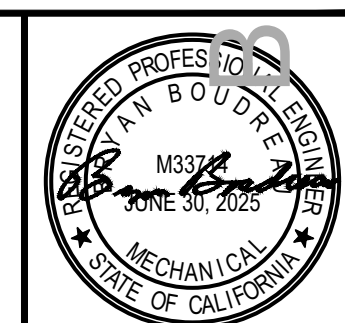


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PLUMBING - SPECIFICATIONS SHEET 2
 S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
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P0.2	

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THIS SET - NOT FOR CONSTRUCTION - 04 NOV 24

ELECTRICAL EQUIPMENT BRACING NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1616A.2 AND 16A.3 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS 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.

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

CALIFORNIA CODE OF REGULATIONS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 2019 ASME A17.1/CSA B44-2019 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35) (NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) - 2022 EDITION
 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) 2019 EDITION
 NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS - 2021 EDITION
 NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS - 2021 EDITION
 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION - 2019 EDITION
 NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) - 2019 EDITION
 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) - 2022 EDITION
 NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES - 2019 EDITION
 NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2018 EDITION
 UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT - 2005 (R2010)
 UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES - 2003 EDITION
 UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS - 1999 EDITION
 ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

DEMOLITION AND CLEANUP NOTES

- PATCH HOLES WHERE FASTENERS, DEVICES OR EQUIPMENT HAS BEEN REMOVED. PAINT PATCH TO MATCH SURROUNDING AREA.
- REMOVE ALL MATERIAL CAUSED BY THE DEMOLITION WORK FROM THE SITE AND LEAVE THE PREMISES CLEAN AND FREE OF DEBRIS.
- PROVIDE AND INSTALL BLANK COVER PLATES AT REMOVED ELECTRICAL DEVICE BACK BOX.
- ALL DEMOLITION SHALL COMPLY WITH CH. 33 CBC AND CHAPTER 33 CFC.

120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

LOAD IN VOLT AMPERES	LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE)				
	#12	#10	#8	#6	#4
1200VA	74	121	183	284	434
1560VA	57	93	141	218	334
1800VA	49	81	122	189	289
1920VA	46	76	115	178	271
2340VA	X	62	94	146	223
2880VA	X	51	76	118	181
3000VA	X	48	73	114	174
3900VA	X	X	56	87	134
4800VA	X	X	46	71	108

NOTES:
 1. THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 2. THIS CHART ASSUME AN 80% POWER FACTOR AND STEEL RACEWAYS.
 3. 2019 CALIFORNIA ENERGY CODE, 130.5(c) ALLOWS A MAXIMUM COMBINED VOLTAGE DROP OF 5%. THIS CHART ASSUMES A MAXIMUM LENGTH OF CONDUCTORS FOR LESS THAN 2% VOLTAGE DROP ON A BRANCH CIRCUIT AT GIVEN VA LOAD.
 4. USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 5. FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM VALUE FROM THE CHART.

GENERAL NOTES

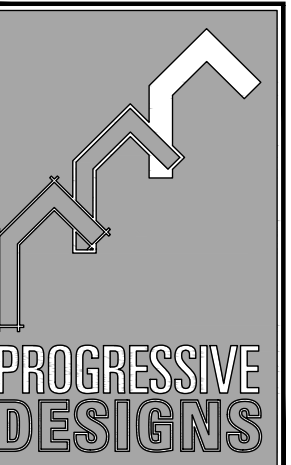
- ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES.
- ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L., C.S.A. ETC.) AS PER C.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID.
- THE ENGINEERING SERVICE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE.
- WORKING CLEARANCE SHALL BE MAINTAINED AS PER C.E.C. FOR ALL PANEL(S), SERVICE EQUIPMENT, DISCONNECT SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURERS PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.
- ARC FLASH WARNING LABELS SHALL BE PLACED ON ALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS ETC. PER CEC 110.16. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. REFER TO THE ARC FLASH REQUIREMENTS PER THE TYPICAL DETAILS.
- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S).
- IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING.
- ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF.
- ONLY MAJOR PULL BOXES ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES ABOVE GROUND SHALL BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE HOLD DOWN BOLTS AND BE TRAFFIC RATED.
- MARK ALL PANELS WITH LAMANOID TAGS RIVETED TO THE EQUIPMENT. PROVIDE TYPE WRITTEN PANEL SCHEDULE AT ALL PANELS.
- ALL FLOOR/GROUND MOUNTED EQUIPMENT SHALL SIT ON A CONCRETE PAD 3" HIGHER THAN SURROUNDING SURFACE FOR INTERIOR EQUIPMENT AND 6" FOR EXTERIOR EQUIPMENT.
- CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.
- CAUTION SHOULD BE USED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING UNDERGROUND CONDUITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND SERVICE ALERT PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE VISIT WITH THE OWNER/PROJECT ENGINEER.
- THE CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB.
- ALL PHASE CONDUCTORS SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF NEUTRALS ALLOWED.
- ISOLATED GROUNDING CONDUCTORS SHALL BE SIZED TO MATCH THE EQUIPMENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND CONNECTED ONLY TO THE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED GROUNDING SYSTEM AND GROUNDED AT THE MAIN GROUNDING BUS WITHIN THE PANEL OF CIRCUIT ORIGIN. THE ISOLATED GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO ANY OTHER GROUNDING SYSTEM ALONG ITS PATH.
- PATCH AND REPAIR ALL REMOVED CONCRETE TO MATCH ADJACENT SURFACES.
- A CERTIFIED ELECTRICAL SHALL BE PRESENT ON THE PROJECT WHENEVER ELECTRICAL WORK IS IN PROGRESS. AN ELECTRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND SHALL ALSO BE CERTIFIED IF HE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN. VIOLATION OF THIS REQUIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS SHALL BE REPORTED TO THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE EXISTING LABOR CODE SECTION 108.02. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK ON THIS PROJECT AND ALL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO PERFORMING ANY WORK.
- ALL CONDUIT SHALL BE CONCEALED WITHIN ATTIC SPACE AND WALLS.
- ALL EXTERIOR RECEPTACLES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE COVER.
- ALL FASTENERS USED SHALL BE STAINLESS STEEL GRADE 316.
- ALL CONDUIT AND CONDUCTORS INSTALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR WET LOCATIONS AND MARKED WITH 'W' PER CEC.
- SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-2N OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
- INSTALL MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATE LETTERING SIZE SHALL BE 3/16-INCH HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS ON MAIN SERVICE PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4-INCH HIGH.
- ALL SWITCHBOARDS, SWITCHGEAR, PANEL BOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC. SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4. FIELD IDENTIFICATION REQUIRED. (B) SOURCE OF SUPPLY.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECTION POINTS WITH ALL APPLICABLE DISCIPLINES.
- UTILIZE WIREMOLD 5400 AND 2300 SERIES SURFACE RACEWAYS OR EQUAL FOR SURFACE RACEWAY VERTICAL RUNS WHERE CABLING CANNOT BE CONCEALED WITHIN WALLS.
- ONLY RIGID OR IMC CONDUIT SHALL BE USED WHEN TRANSITIONING FROM UNDERGROUND PVC CONDUIT TO ABOVE GROUND, PVC NOT ALLOWED.
- ALL DISCONNECTS SHALL BE READILY ACCESSIBLE AND IN SIGHT OF THE EQUIPMENT, PER THE CALIFORNIA ELECTRICAL CODE. IF THE DISCONNECTING MEANS CANNOT BE LOCATED WITHIN SIGHT OF THE EQUIPMENT SERVED, IT SHALL HAVE THE CAPABILITY OF BEING LOCKED IN THE OPEN POSITION.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- ALL NEW METAL STRUCTURES AND THE ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED. REFER TO ELECTRICAL SPECIFICATIONS AND TYPICAL DETAILS.
- ALL TRANSFORMER DISCONNECTS SHALL HAVE LOCKOUT CAPABILITY TO LOCK THE DISCONNECT IN THE OPEN AS WELL AS IN THE CLOSED POSITION.
- ALL BUSES, CONDUCTORS, AND WINDINGS SHALL BE COPPER.
- ALL INTERRUPT AND SHORT CIRCUIT RATINGS SHALL BE FULLY RATED.
- ALL TRANSFORMER WINDING SHALL BE COPPER AND THEY SHALL BE K-3 RATED.
- ALL OUTDOOR ENCLOSURES SHALL BE WEATHERPROOF RATED AND HAVE LOCKING HASP INCLUDING, BUT NOT LIMITED TO SWITCHBOARDS, DISCONNECTS, ENCLOSURES, ETC. THE DISTRICT WILL PROVIDE THEIR OWN KEYPED LOCKS. OUTDOOR PANELS SHALL HAVE KEYPED LOCKING MECHANISM KEYPED PER DISTRICT'S STANDARD.
- AVAILABLE FAULT CURRENT SHALL BE INDICATED ON ALL NEWLY INSTALLED SERVICE EQUIPMENT PER ECE 110.24. THE FIELD MARKING SHALL INCLUDE THE DATE OF THE FAULT CURRENT CALCULATION WAS PERFORMED, FOR MODIFICATION TO THE ELECTRICAL INSTALLATION. THE AVAILABLE FAULT CURRENT SHALL BE RECALCULATED INCLUDING NEW LOADS AND POSTED ON SITE PRIOR TO FINAL INSPECTION PER CEC ARTICLE 110.24.
- REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALL CEILINGS OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATION. WHERE THIS CONDITION OCCURS, PROVIDE THE EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS.

FILENAME:-

DRWING -

24 x 36

REVISIONS	BY



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ADDITIONAL NOTES AND REQUIREMENTS
 S.J.CO.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15

E1.02

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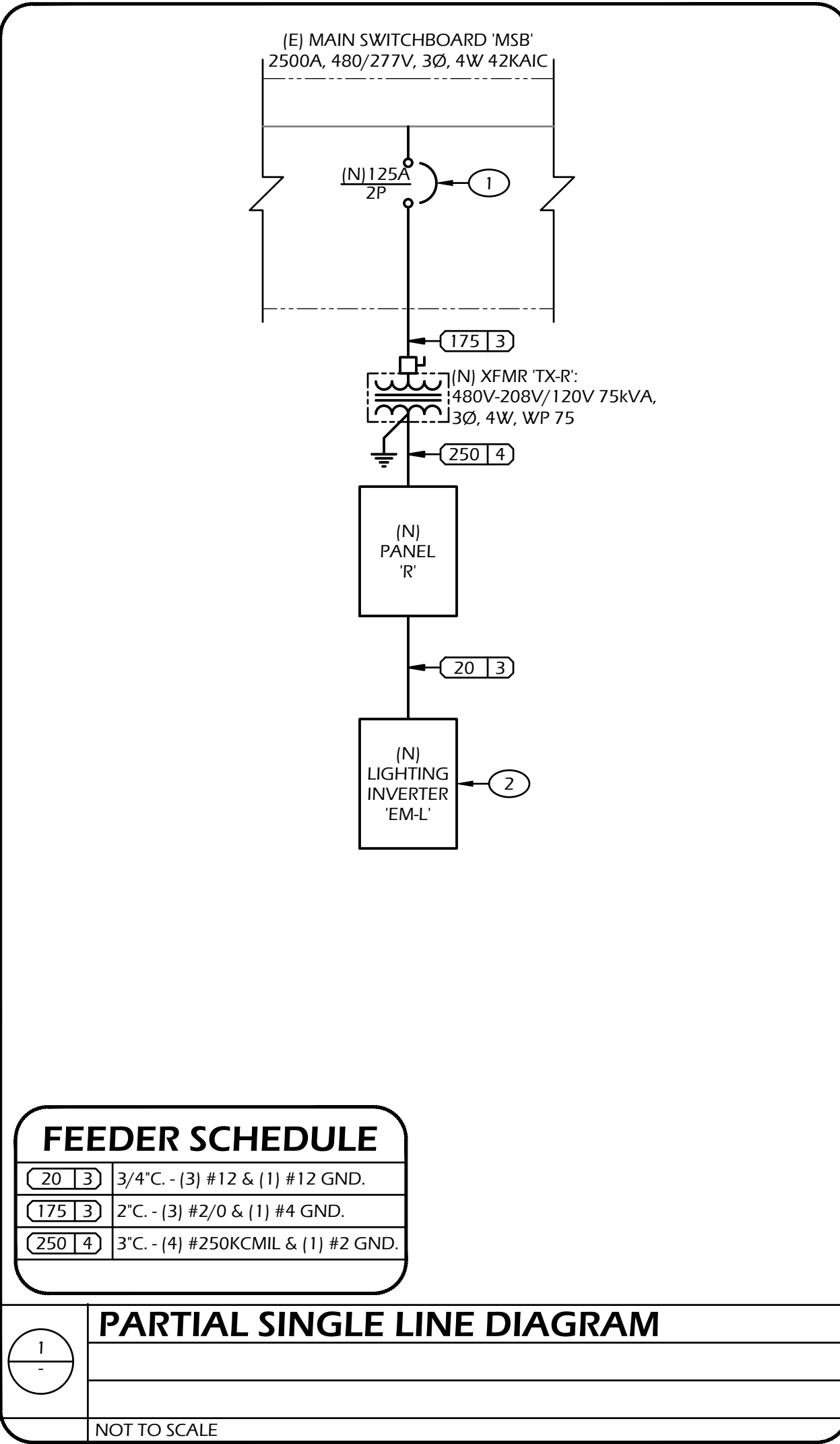
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LIGHTING INVERTER UNIT SPECIFICATIONS

- ALL EMERGENCY SOURCE CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAYS (FROM NORMAL POWER), PER 2022 CEC 700.10(B), OR APPLICABLE CODE AT THE TIME OF PERMITTING.
- INPUT SHALL BE EQUIPPED WITH UL294 SURGE PROTECTION AND 1HZ NOMINAL SYNCHRONIZING SLEW RATE.
- OUTPUT VOLTAGE STATIC REGULATION SHALL BE +/- 5% FOR 100% RESISTIVE LOAD.
- OUTPUT DISTORTION SHALL BE 5% THD MAXIMUM.
- OVERLOAD RATING: 150% MOMENTARY; 115% FOR 10 MINUTES.
- TRANSFER TIME: LESS THAN 2 MILLISECONDS.
- BATTERY SHALL BE SEALED LEAD CALCIUM, 10 YEAR LIFE, 90 MINUTE RUN TIME, WITH AUTO-DISCONNECT FOR LOW BATTERY VOLTAGE.
- PROVIDE RS232 PORT AND RJ-45 ETHERNET PORT FOR EXTERNAL COMMUNICATIONS.
- INVERTER SHALL BE PWM TYPE.
- PROVIDE INTERNAL MAINTENANCE BYPASS.
- PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY.
- PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATISFACTION OF BUILDING INSPECTION AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL TRAINING FOLLOWING STARTUP.
- AUTO SELF TESTING.
- PROVIDE OUTPUT CIRCUIT BREAKERS RATED 20 AMPS EACH WITH DEDICATED CIRCUITS FOR EACH OF THE EMERGENCY LIGHTING LOADS; 5 OUTPUT BREAKERS.
- SEISMIC QUALIFIED MOUNTING.

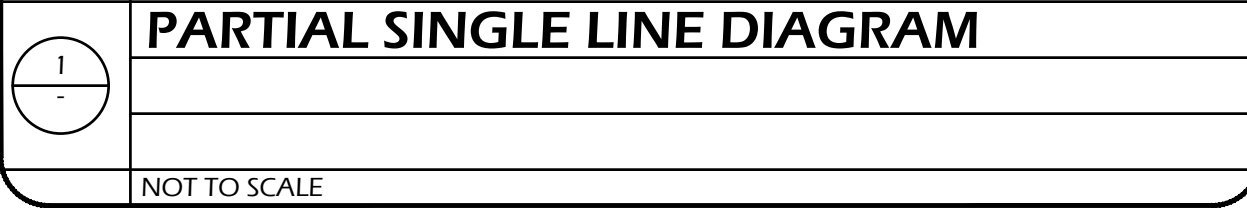
VOLTAGE: 208/120V, 3Ø, 4W BUS: 250A MAIN BREAKER: 250A/3P				(N) PANEL 'R'				BREAKER AIC: 35,000 MOUNTING: SURFACE NEMA 1 ENCLOSURE			
CIR #	BKR	LOAD (VA)			DESCRIPTION	DESCRIPTION	LOAD (VA)			CIR #	
		PHASE A	PHASE B	PHASE C			PHASE C	PHASE B	PHASE A		
1	20A/1P	540			RM# 05 REC.	RM# 06 REC.			720	20A/1P	2
3	↓		540		RM# 05 REC.	RM# 10 PRINTER REC.		600		↓	4
5	↓			540	RM# 05 REC.	RM# 10 REC.	360			↓	6
7	↓	540			RM# 05 REC.	RM# 11 REC.			720	↓	8
9	↓		540		RM# 05 & 04 REC.	RM# 12 REC.		360		↓	10
11	↓			0	SPARE	SPARE	0			↓	12
13	↓	720			RM# 08 REC	RM# 18 & 19 REC.			360	↓	14
15	↓		540		RM# 9 REC	RM #14-24 LTG		444		15A/1P	16
17	↓			540	RM# 9 REC	EXIT LIGHTS	40			↓	18
19	↓	180			RM# 9 REC	SPARE			0	↓	20
21	15A/1P		227		RM #7,8,9 LTG	RM #13,28,29 MAIN. LTG		341.8		↓	22
23	↓			891.4	INVERTER-EM-L *	SPARE	0			20A/1P	24
25	20A/1P	540			RM #21-23 REC.	RM# 07 REC.			720	↓	26
27	15A/1P		307.4		RM #6,10,11,12 LTG	SPACE		0		↓	28
29	20A/1P			180	RM #14 REC.	↓	0			↓	30
31	↓	900			RM #15-19 REC.	↓			0	↓	32
33	↓		0		SPARE	↓			0	↓	34
35	↓			0	↓	↓			0	↓	36
37	↓	360			RM #24 REC.	HVAC ROOF REC.			180	20A/1P	38
39	↓		0		SPARE	↓		3994		↓	40
41	↓			1920	COPIER	ROOF HEAT PUMP AC-27		3994		↓	42
43	↓	360			SPACE	COPIER			1920	↓	44
45	20A/1P		360		SPARE	SPACE		0		↓	46
47	↓			360	↓	↓		0		20A/1P	48
49	↓	360			↓	↓			0	↓	50
51	↓			360	↓	↓			0	↓	52
53	↓			360	↓	↓			0	↓	54
TOTAL Ø LOADS (VA):				PHASE A = 9120	PHASE B = 8614	PHASE C = 9185					
TOTAL Ø LOADS (A):				PHASE A = 76	PHASE B = 72	PHASE C = 76					
TOTAL LOAD:				26919 VA	75 A						

NOTE:
1. *-CIRCUIT BREAKER PROTECTING THE SYSTEM MUST BE A 'MOTOR START', DELAYED TRIP TYPE.



FEEDER SCHEDULE

20 3	3/4" - (3) #12 & (1) #12 GND.
175 3	2" - (3) #2/0 & (1) #4 GND.
250 4	3" - (4) #250KCMIL & (1) #2 GND.



LIGHTING FIXTURE SCHEDULE (#)

TYPE	LIGHTS	MANUFACTURER AND MODEL	LAMPS	REMARKS	WATTS	LBS
A2		LITHONIA # STAKP 2X4 4000LM 80CRI 40K COL MIN1 EZT MVOLT NLIGHT	LED	2-FT. x 4-FT., 4,321 LUMENS (NOMINAL), LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE NLIGHTER EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	30.3	23
A3		LITHONIA # STAKP 2X4 4000LM 80CRI 40K COL MIN1 EZT MVOLT NLIGHT	LED	2-FT. x 4-FT., 4,858 LUMENS (NOMINAL), LED FIXTURE TO BE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE NLIGHTER EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	40	24
B1		LITHONIA # STAKP 2X2 3000LM 80CRI 40K COL MIN1 EZT MVOLT NLIGHT	LED	2-FT. x 2-FT., 3,267 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE NLIGHTER EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	22.7	15
B2		LITHONIA # STAKP 2X2 4000LM 80CRI 40K COL MIN1 EZT MVOLT NLIGHT	LED	2-FT. x 2-FT., 4,310 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE NLIGHTER EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	30.7	15
C1		LITHONIA # LBL4 3000LM 80CRI 40K MIN1 ZT MVOLT NLIGHT	LED	10-INCH x 4-FT., 3,288 LUMENS (NOMINAL) LED FIXTURE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE EMG EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	25.6	10.85
G1		LITHONIA # 2GTL 4 30L EZ1 LP840 N80	LED	2-FT. x 4-FT., 3,102 LUMENS (NOMINAL) LED FIXTURE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE N80EMG EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	23.3	20.2
G2		LITHONIA # 2GTL 2 20L EZ1 LP840 N80	LED	2-FT. x 2-FT., 2,337 LUMENS (NOMINAL) LED FIXTURE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING DRIVER. LIGHT FIXTURE SHALL HAVE N80EMG EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	18.4	12.64
X		CHLORIDE OR EQUAL #CN6GGA1CTA	LED	UNIVERSAL MOUNTED, EDGE LIT EXIT SIGN WITH CLEAR AND GREEN LETTERS. PROVIDE INDICATING ECHELON ARROWS REQUIRED PER DIRECTION INDICATED. PROVIDE TEST SWITCH, INDICATING LEDS, AND BATTERY PACK WITH INTEGRAL CHARGER. REFER TO FLOOR PLANS FOR WALL OR CEILING MOUNTING LOCATIONS.	5	10

SCHEDULE NOTES

- COORDINATE ALL COLORS WITH OWNER/ARCHITECT PRIOR TO ORDERING. CONTRACTOR SHALL PROVIDE COLOR SAMPLES DURING SUBMITTAL STAGE
- ALL CLEAR, ACRYLIC, PRISMATIC LENSES ARE TO BE MINIMUM 0.125" PATTERN K12, U.O.N
- ALL LEDS SHALL HAVE A CRI OF 0.8 AND COLOR TEMPERATURE OF 4000K.
- ALL HALF SHADED FIXTURES SHALL HAVE AN EMERGENCY DRIVER WITH BATTERY BACKUP IN ORDER TO PROVIDE A MINIMUM OF 90 MINUTES OF BACKUP IN THE EVENT OF POWER OUTAGE WITH MINIMUM 1100 LUMEN OUTPUT. THE BATTERY CHARGER SHALL BE CONNECTED TO THE UN-SWITCHED SOURCE. IF LIGHT FIXTURE IS CONNECTED TO EMERGENCY CIRCUIT INTEGRAL BATTERY BACKUP IS NOT REQUIRED. REFER TO ELECTRICAL SINGLE LINE DIAGRAM.
- ALL EXIT LIGHT FIXTURES SHALL BE CONNECTED TO AN UN-SWITCHED SOURCE.
- ALL RECESS MOUNTED FIXTURES SHALL COME WITH BAR HANGERS. THE CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING.
- ALL DRIVERS SHALL HAVE LESS THAN 10% THD.
- FIXTURE TYPE IS SHOWN WITHIN MOST FIXTURES.
- PRIOR TO ORDERING FIXTURES REFER TO THE LIGHTING PLAN FOR THE CORRECT VOLTAGES TO BE UTILIZED FOR THE FIXTURES.
- THE SYSTEM DESIGNED HERE IN IS A NLIGHT NETWORKED LIGHTING SYSTEM. ALL ROOM CONTROLLERS/POWERPACKS, NETWORK BRIDGES, OCCUPANCY SENSORS, PHOTO SENSORS, LIGHTING RELAY PANEL, ETC. SHALL BE NETWORKED TOGETHER WITHIN THE ROOM. REFER TO TYPICAL DETAILS.

SHEET NOTES (#)

- PROVIDE AND INSTALL NEW INDICATED CIRCUIT BREAKER AND ALL MOUNTING HARDWARE.
- PROVIDE AND INSTALL A 1KVA, 120V-IN & 120V-OUT, 1 PHASE, MYERS #1-EM-1-S-BA2005 BTM-HOT-2YWT-5YP-5FW EMERGENCY LIGHTING INVERTER WITH 90 MINUTES OF RUN TIME (27.5" TALL X 24.5" WIDE X 10.5" DEEP 281 POUNDS TOTAL SYSTEM WEIGHT) OR APPROVED EQUAL PROVIDE MANUFACTURER FLOOR MOUNTING BRACKETS FOR FLOOR MOUNTING. PROVIDE DATA CONNECTION CAT6 DATA CABLE BACK TO THE EXISTING IDF.

ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE

NAME	CB	WEIGHT(Lb)	W	D	H	MOUNTING	MANUFACTURER
PANEL 'R'	250A	230	20"	5.75"	68"	SURFACE MOUNTED	SQUARE D OR EQUAL

TRANSFORMER

NAME	kVA	WEIGHT(Lb)	W	D	H	LOCATION	MANUFACTURER
XFMR TX-R	75 kVA	760	30.06'	27.43'	33.50'	INDOOR	SQUARE D OR EQUAL

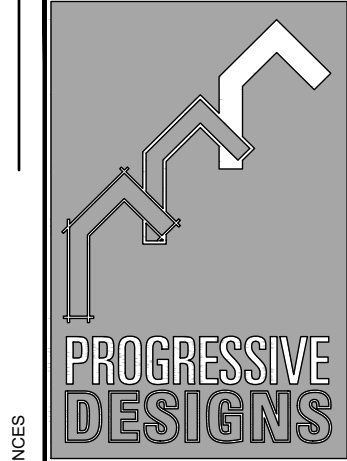
MECHANICAL EQUIPMENT SCHEDULE

#	DESCRIPTION	FLA/MCA/HP/W	STARTER/FUSES	VOLT	PHASE	MAX. OCPD SIZE	CONDUIT SIZE	CONDUCTOR #	CONDUCTOR SIZE	GND.
AC-27	HEAT PUMP	48 MCA	FUSE/DISC.	208V	1	NOTE 2	1"	2	#8	NOTE 3

NOTES:
1. * = THERMAL RATED SWITCH FOR FRACTIONAL HORSEPOWER MOTORS.
2. REFER TO THE PANEL SCHEDULE AND SINGLE LINE DIAGRAM FOR THE CIRCUIT BREAKER AND CONDUIT SIZES, IF NOT INDICATED WITHIN THE SCHEDULE.
3. GROUNDING CONDUCTOR SIZE TO MATCH CIRCUIT CONDUCTOR SIZE.

GENERAL NOTES:
1. COORDINATE LOCATIONS AND POWER REQUIREMENTS FOR THE MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
2. PROVIDE DISCONNECT PER NAME PLATE RATING OF MECHANICAL UNITS.

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 PARTIAL SINGLE LINE DIAGRAM AND SCHEDULES
 S.J.CO.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15

E1.03



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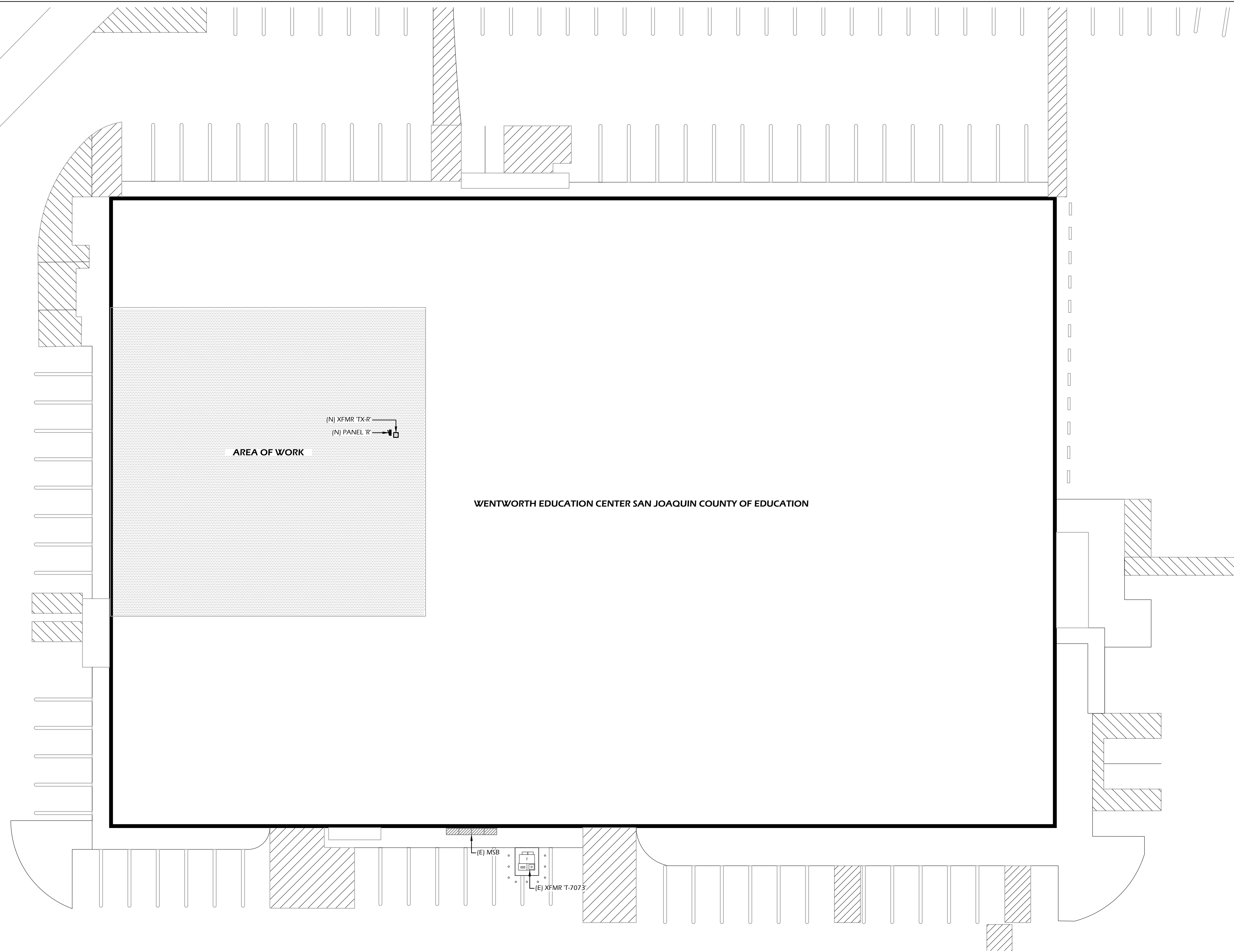
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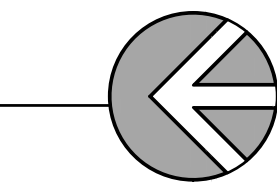
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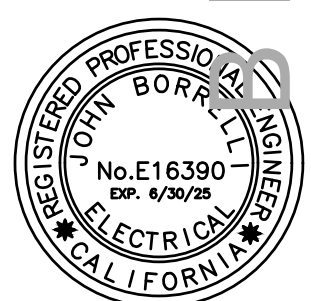
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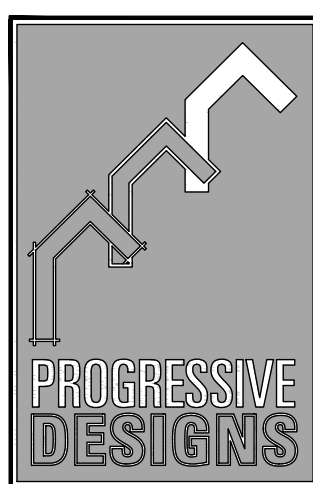
1
-
PARTIAL ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"



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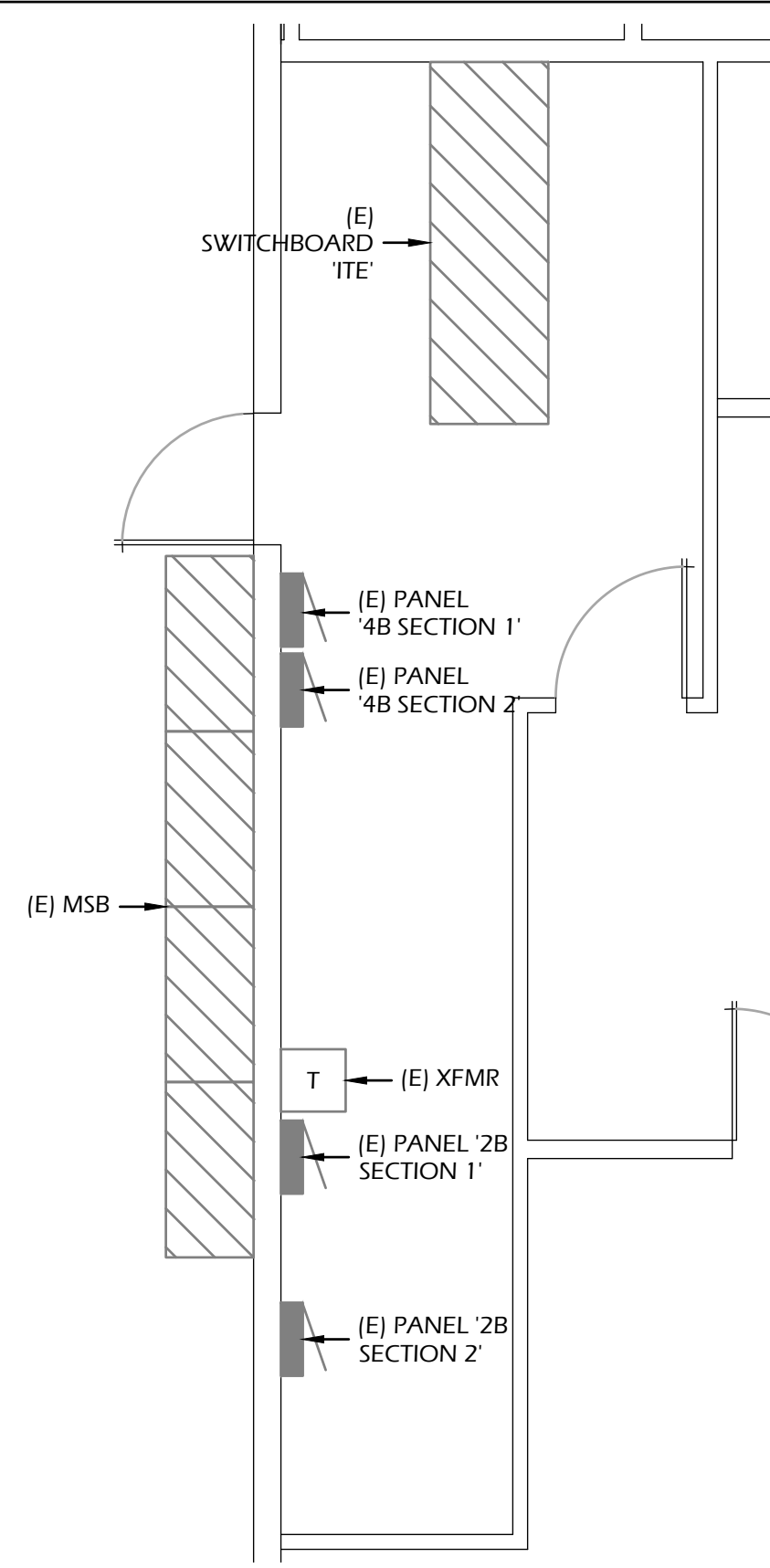


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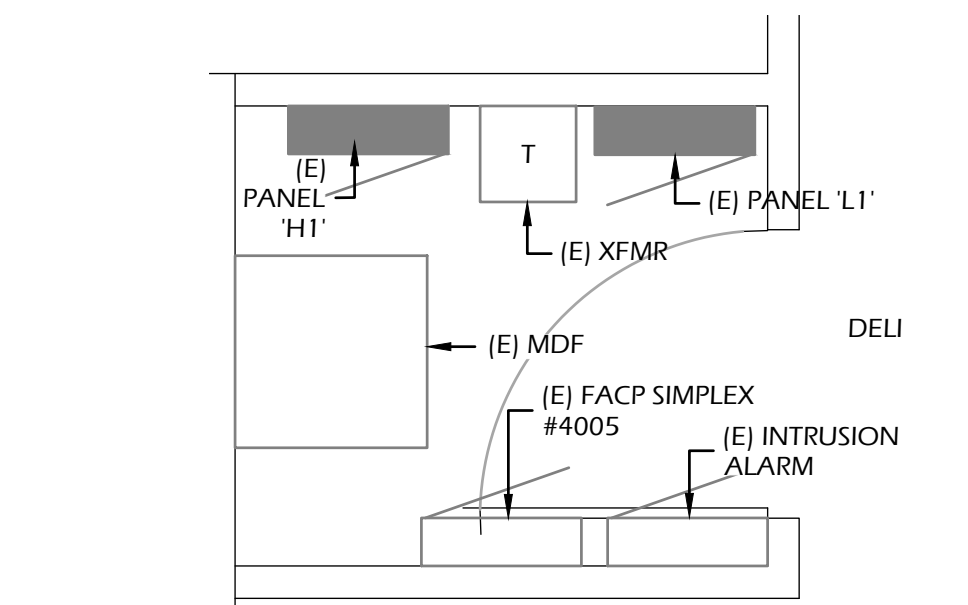
PARTIAL ELECTRICAL SITE PLAN
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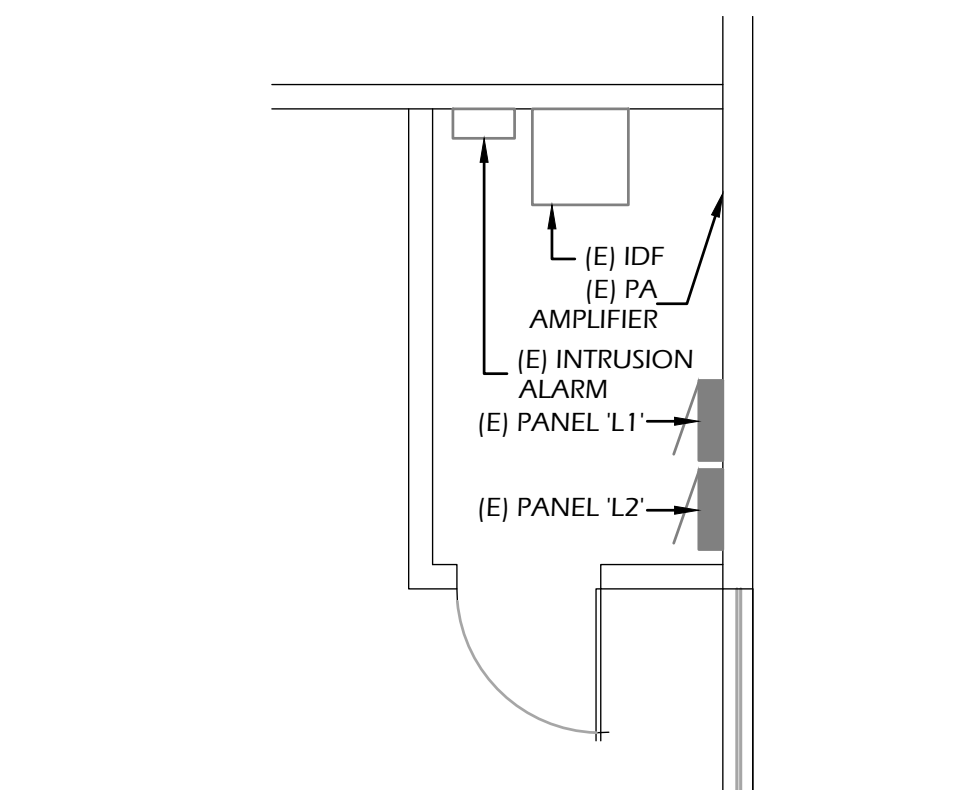
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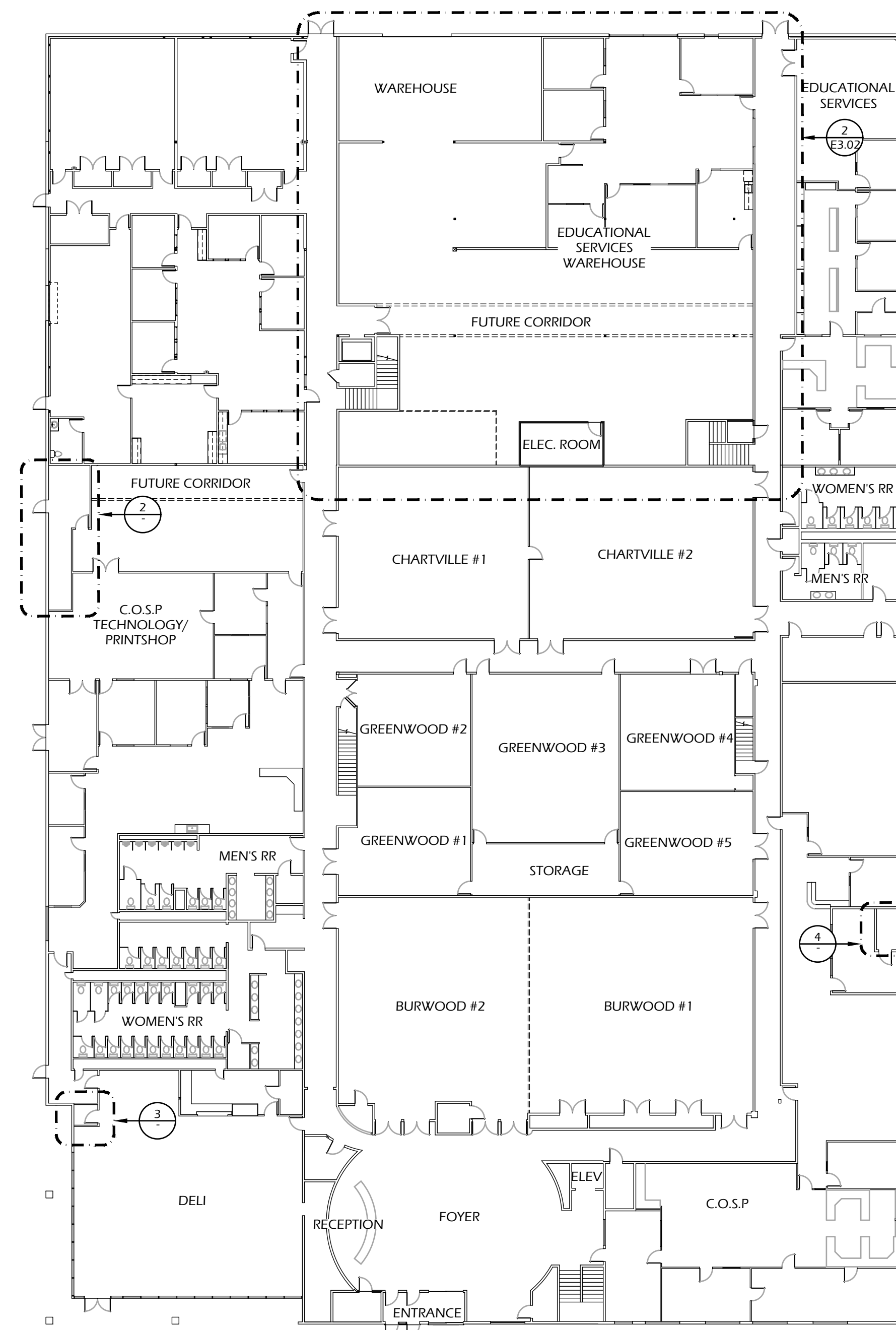
PARTIAL POWER & SIGNAL FLOOR PLAN-FIRST FLOOR
 SCALE: 1/4"=1'-0"



PARTIAL POWER & SIGNAL FLOOR PLAN-FIRST FLOOR-DELI CLOSET
 SCALE: 1/2"=1'-0"



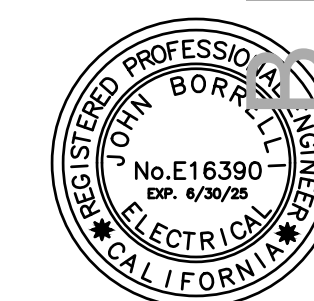
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 SCALE: 1/4"=1'-0"



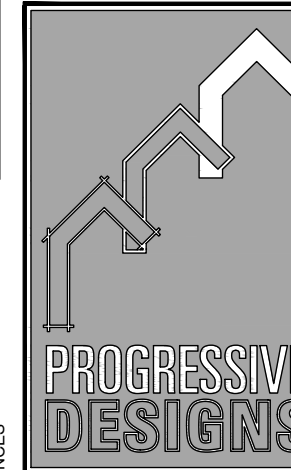
POWER & SIGNAL FLOOR PLAN-FIRST FLOOR
 SCALE: 1"=15'-0"



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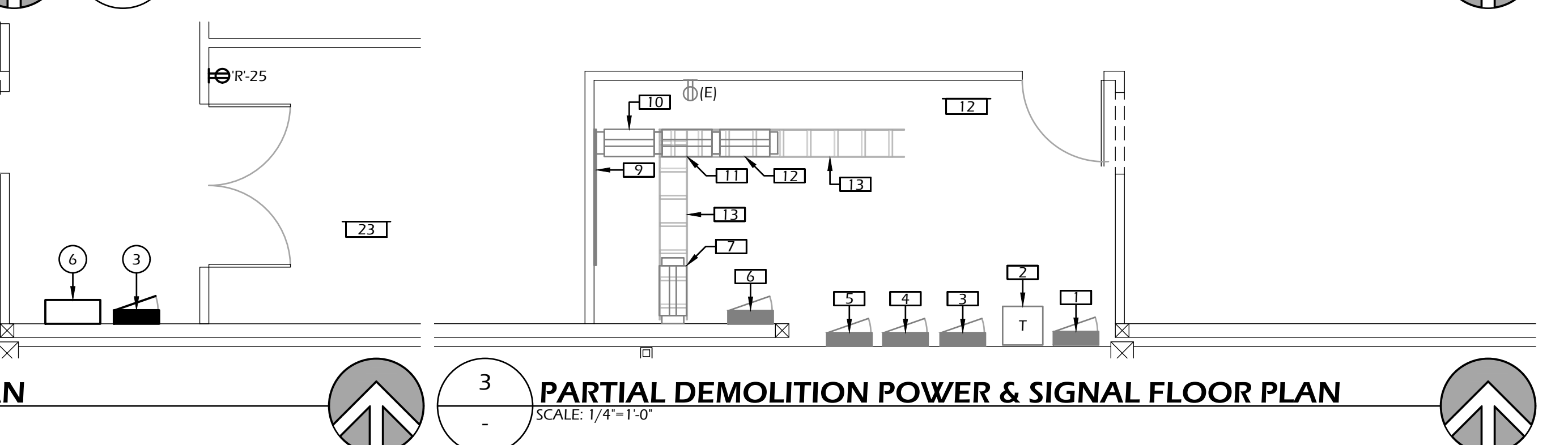
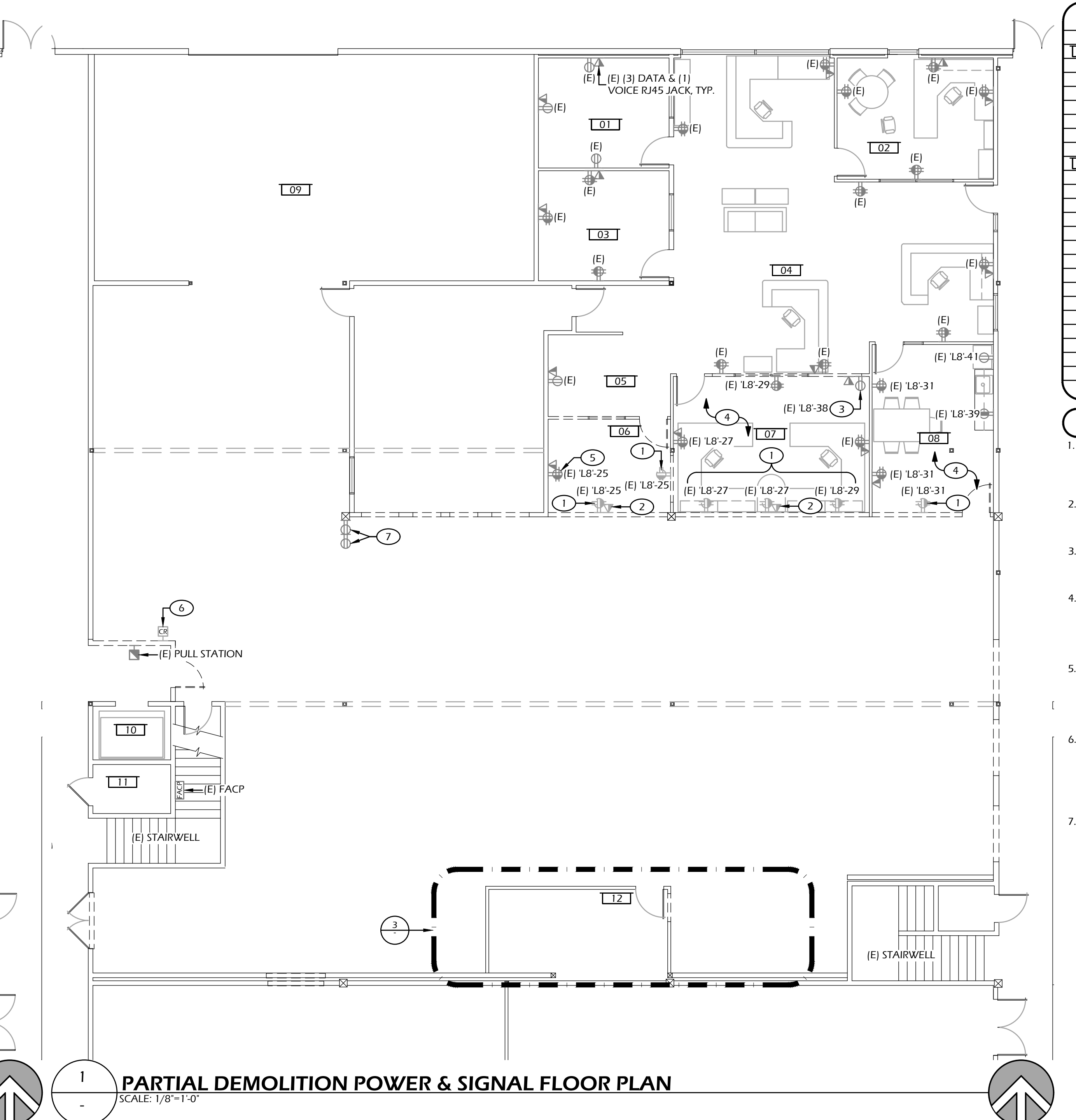
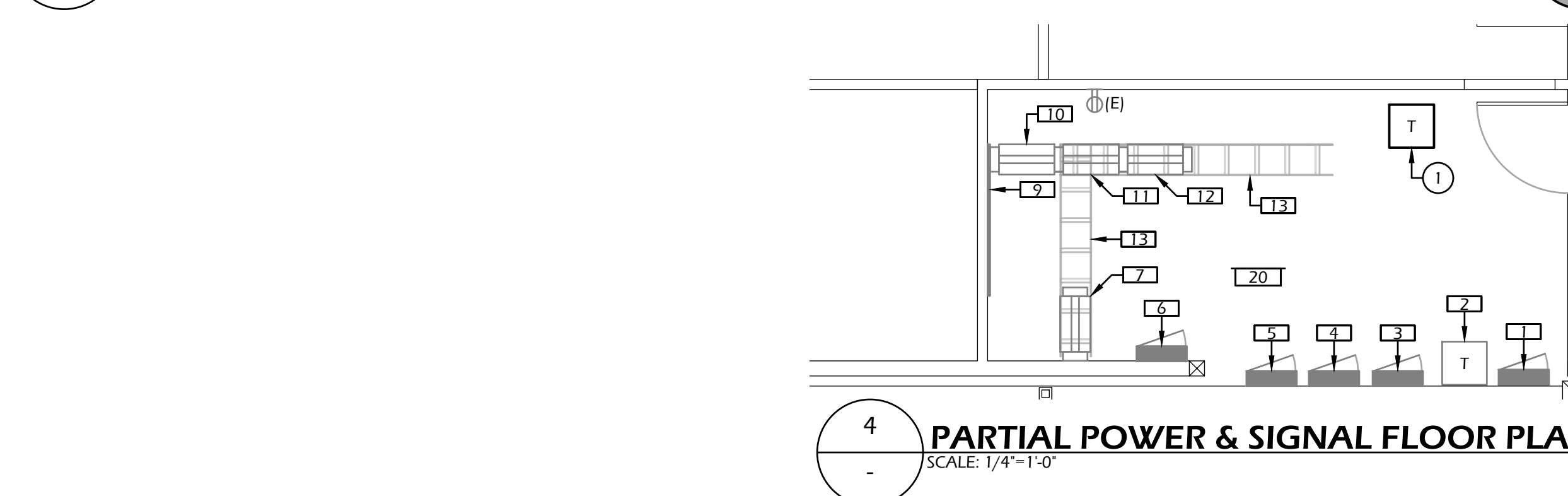
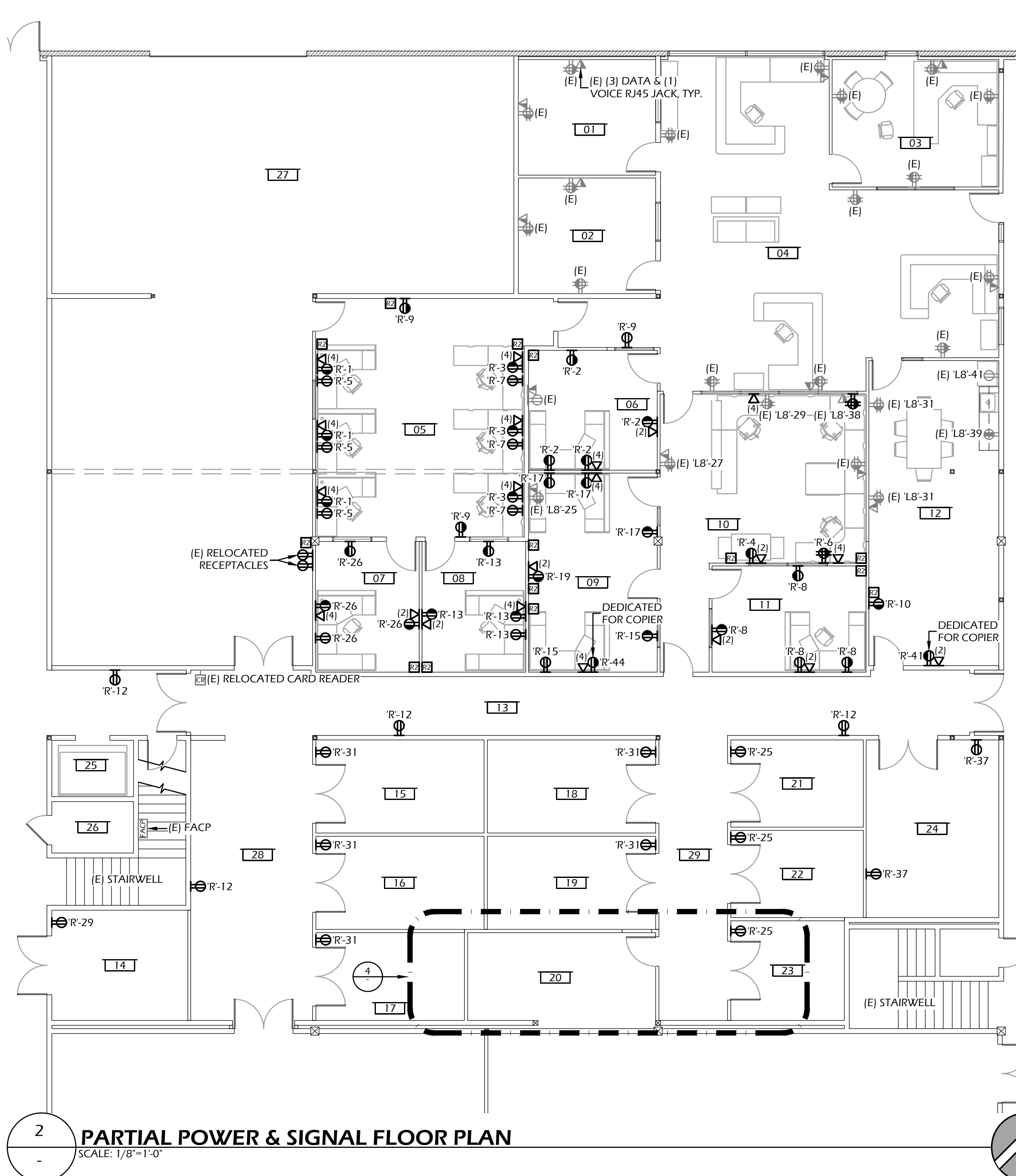
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POWER AND SIGNAL FLOOR PLAN-FIRST FLOOR
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24 x 36
DRAWING -
FILENAME -
DATE: 10-15-24



ROOM SCHEDULE			
EXISTING FLOOR PLAN		REMODELED FLOOR PLAN	
###	ROOM NAME	###	ROOM NAME
01	OFFICE	07	OFFICE
02	OFFICE	08	BREAKROOM
03	OFFICE	09	OPERATIONS WAREHOUSE
04	WORK AREA	10	ELEVATOR
05	COPY	11	MACHINE ROOM
06	OFFICE	12	ELECTRICAL ROOM
###	ROOM NAME	###	ROOM NAME
01	OFFICE 1	16	STORAGE C
02	OFFICE 2	17	STORAGE D
03	OFFICE 3	18	STORAGE E
04	WORK AREA	19	STORAGE F
05	MAINTENANCE	20	ELECTRICAL
06	OFFICE 4	21	STORAGE G
07	OFFICE 5	22	STORAGE H
08	OFFICE 6	23	STORAGE I
09	OFFICE 7	24	STORAGE J
10	PURCHASING	25	ELEVATOR
11	OFFICE 8	26	MACHINE ROOM
12	EXTENDED BREAKROOM	27	OPERATIONS WAREHOUSE
13	HALLWAY	28	HALLWAY
14	STORAGE A	29	HALLWAY
15	STORAGE B		

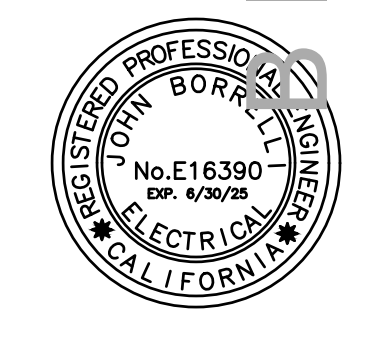
- ### SHEET NOTES
- DISCONNECT AND REMOVE THE EXISTING RECEPTACLE. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #12 AWG CONDUCTORS TO ROUTE THE EXISTING CIRCUIT SO UPSTREAM AND DOWNSTREAM RECEPTACLES TO REMAIN FUNCTIONAL.
 - DISCONNECT AND REMOVE THE EXISTING DATA PORTS AND RJ45 JACKS. DISCONNECT/REMOVE AND PULL ALL DATA CABLING SOURCE.
 - REPLACE THE EXISTING RECEPTACLE WITH A NEW INDICATED SWITCHED/CONTROLLED RECEPTACLE. ROUTE THE EXISTING CIRCUIT VIA THE NEW RECEPTACLE CONTROLLER.
 - PLUG LOAD CONTROLLERS TO REMAIN, SO THE SWITCHED/CONTROLLED RECEPTACLE THAT ARE NOT BEING DEMOLISHED REMAIN FUNCTIONAL. PROVIDE AND INSTALL NEW CAT-5 FROM THE EXISTING PLUG LOAD CONTROLLERS AND MAKE CONNECTIONS TO THE NEW ROOM NLIGHT NETWORK.
 - PLUG LOAD CONTROLLER TO REMAIN, SO THIS SWITCHED/CONTROLLED RECEPTACLE REMAINS FUNCTIONAL. PROVIDE AND INSTALL NEW CAT-5 FROM THE EXISTING PLUG LOAD CONTROLLER AND MAKE CONNECTIONS TO THE NEW ROOM NLIGHT NETWORK.
 - DISCONNECT AND RELOCATE EXISTING CARD READER. PULL CONDUCTORS BACK TO THE ATTIC SPACE TO A NEW 6x6x4 NEMA 1 HINGED JUNCTION BOX. EXTEND THE EXISTING WIRING TO THE (E) RELOCATED CARD READER NEW LOCATION WITH TWO #22 AWG TWISTED PAIR CABLE WITHIN A 3/4" CONDUIT AND MAKE ALL CONNECTIONS.
 - DISCONNECT/REMOVE AND RELOCATE THE EXISTING TWO GANG BOX AND RECEPTACLES TO THE WALL. EXTEND CIRCUITS WITH (3) #12 AWG CONDUCTORS WITHIN 3/4-INCH CONDUIT FOR EACH CIRCUIT AND MAKE ALL CONNECTIONS. SEE NEW FLOOR PLAN FOR NEW LOCATION.

ELECTRICAL EQUIPMENT SCHEDULE					
#	EXISTING ELECTRICAL EQUIPMENT DESCRIPTION	COMMENTS	#	NEW ELECTRICAL EQUIPMENT DESCRIPTION	COMMENTS
1	(E) PANEL 'H3'	EXISTING EQUIPMENT	1	(N) XFMR 'TX-RP'	NEW EQUIPMENT
2	(E) XFMR	EXISTING EQUIPMENT	2	NOT USED	
3	(E) DISCONNECT	EXISTING EQUIPMENT	3	(N) PANEL 'R'	NEW EQUIPMENT
4	(E) PANEL 'L8'	EXISTING EQUIPMENT	4	NOT USED	
5	(E) PANEL 'L7'	EXISTING EQUIPMENT	5	NOT USED	
6	(E) PANEL 'L9' DISCONNECT	EXISTING EQUIPMENT	6	(N) LIGHTING INVERTER 'EM-L'	NEW EQUIPMENT
7	(E) 42 RU SERVER RACK	EXISTING EQUIPMENT			
8	(E) INTRUSION ALARM PANEL	EXISTING EQUIPMENT			
9	(E) SCTB	EXISTING EQUIPMENT			
10	(E) 42 RU SERVER RACK	EXISTING EQUIPMENT			
11	(E) 42 RU SERVER RACK	EXISTING EQUIPMENT			
12	(E) 42 RU SERVER RACK	EXISTING EQUIPMENT			
13	(E) OVERHEAD CABLE TRAY	EXISTING EQUIPMENT			

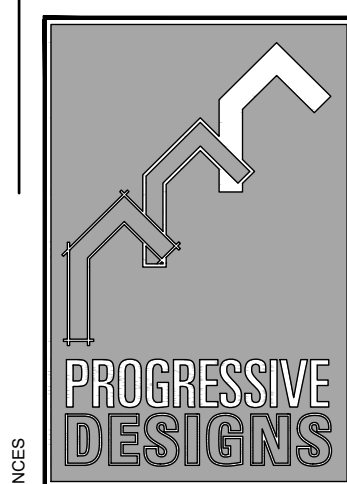


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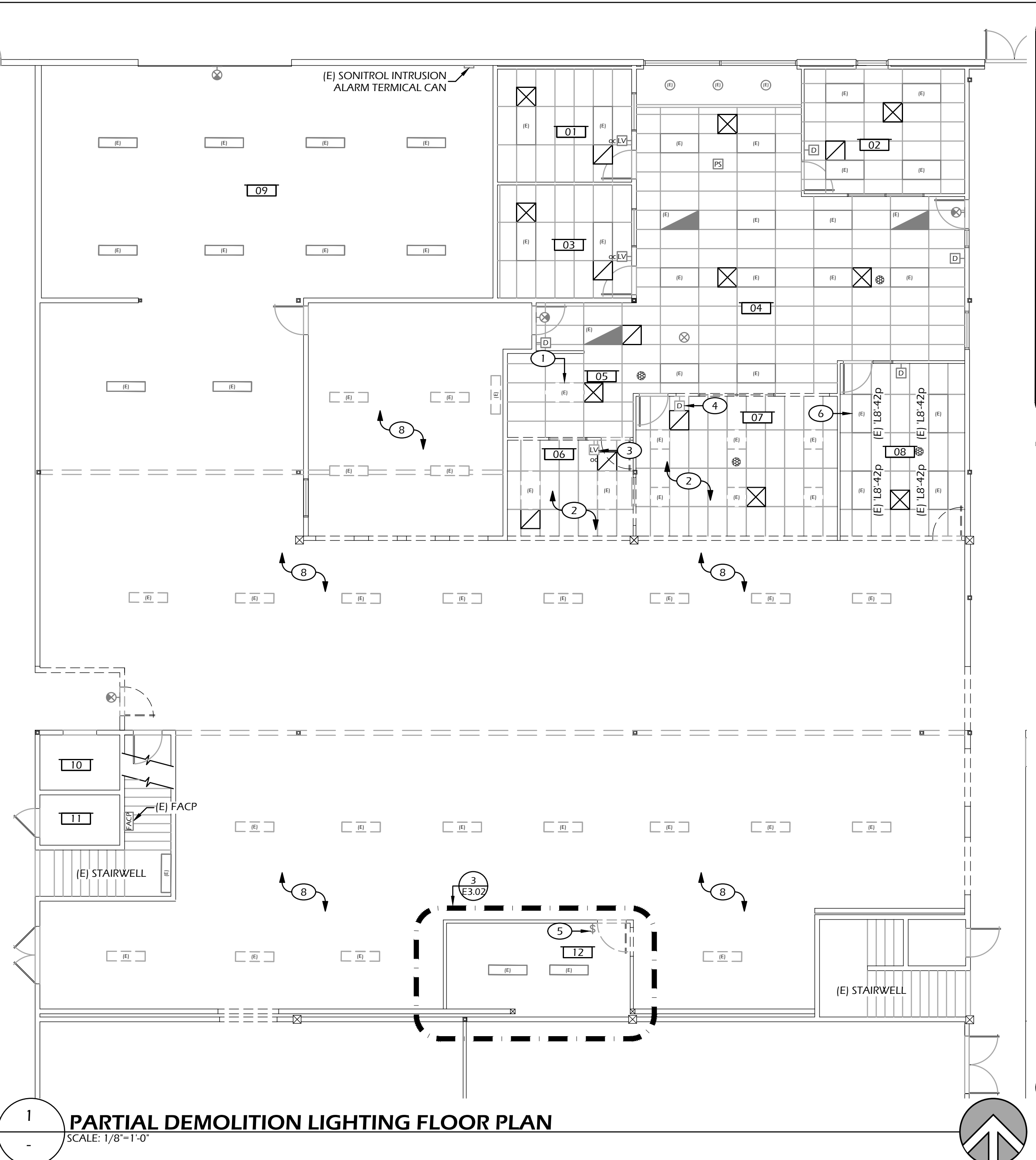
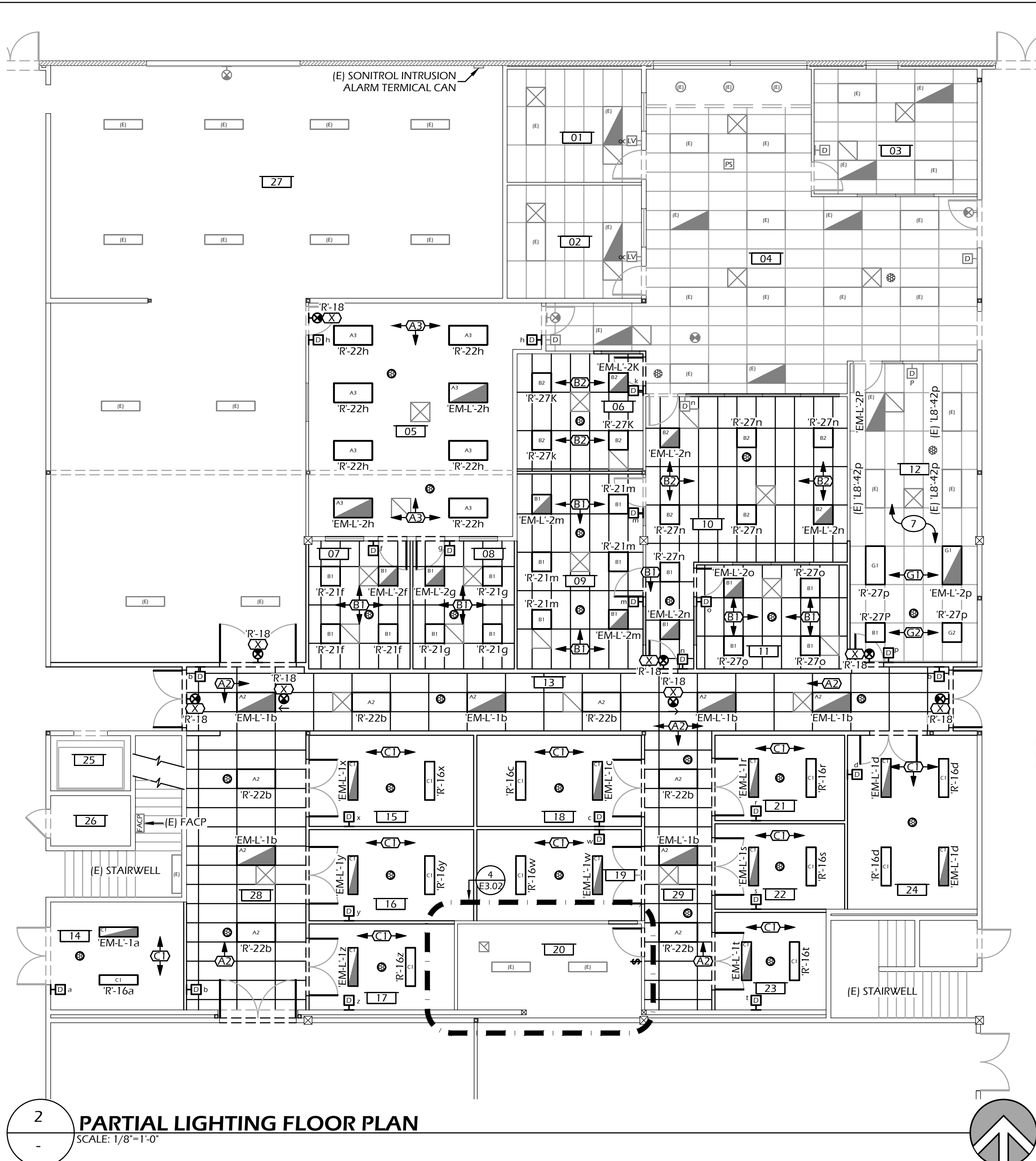
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 PARTIAL POWER & SIGNAL FLOOR PLANS
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DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15
E3.02	



ROOM SCHEDULE

EXISTING FLOOR PLAN			
###	ROOM NAME	###	ROOM NAME
01	OFFICE	07	OFFICE
02	OFFICE	08	BREAKROOM
03	OFFICE	09	OPERATIONS WAREHOUSE
04	WORK AREA	10	ELEVATOR
05	COPY	11	MACHINE ROOM
06	OFFICE	12	ELECTRICAL ROOM
REMODELED FLOOR PLAN			
###	ROOM NAME	###	ROOM NAME
01	OFFICE 1	16	STORAGE C
02	OFFICE 2	17	STORAGE D
03	OFFICE 3	18	STORAGE E
04	WORK AREA	19	STORAGE F
05	MAINTENANCE	20	ELECTRICAL
06	OFFICE 4	21	STORAGE G
07	OFFICE 5	22	STORAGE H
08	OFFICE 6	23	STORAGE I
09	OFFICE 7	24	STORAGE J
10	PURCHASING	25	ELEVATOR
11	OFFICE 8	26	MACHINE ROOM
12	EXTENDED BREAKROOM	27	OPERATIONS WAREHOUSE
13	HALLWAY	28	HALLWAY
14	STORAGE A	29	HALLWAY
15	STORAGE B		

SHEET NOTES

- DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #12 AWG CONDUCTORS TO ROUTE THE EXISTING CIRCUIT SO UPSTREAM AND DOWNSTREAM LIGHTING REMAIN FUNCTIONAL. DISCONNECT AND REMOVE THE EXISTING CAT-5 AND PROVIDE AND INSTALL NEW CAT-5 FROM DOWNSTREAM LIGHT FIXTURE TO UPSTREAM FOR NIGHT CONTROL WIRING.
- DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #12 AWG CONDUCTORS TO ROUTE THE EXISTING CIRCUIT SO UPSTREAM AND DOWNSTREAM LIGHTING REMAIN FUNCTIONAL. DISCONNECT AND REMOVE THE EXISTING OCCUPANCY SENSOR AND CAT-5 CABLE BACK TO THE RACK LOAD CONTROLLER. PLUG LOAD CONTROLLER TO REMAIN. REFER TO SHEET E3.2.
- DISCONNECT AND REMOVE THE EXISTING DIMMER SWITCH AND LOW VOLTAGE CABLE.
- DISCONNECT AND REMOVE THE EXISTING LOW VOLTAGE CAT-5 CABLE. PROVIDE AND INSTALL NEW CAT-5 CABLE BACK TO ONE OF THE NEW LIGHT FIXTURES FOR NIGHT CONTROL WIRING.
- DISCONNECT AND RELOCATE THE EXISTING LIGHT SWITCH TO THE NEW DOOR LOCATION. EXTEND WIRING WITH (3) #12 AWG CONDUCTORS WITHIN A 3/4-INCH CONDUIT. PROVIDE AND INSTALL BLANK COVER PLATE.
- DISCONNECT THE EXISTING LIGHT FIXTURE FROM THE (E) 'LB-42' CIRCUIT. UPSTREAM AND DOWNSTREAM LIGHTS THAT ARE NOT BEING DEMOLISHED TO REMAIN FUNCTIONAL. RECONNECT TO NEW LIGHTING INVERTER CIRCUIT INDICATED. USING UPS POWER PACK FOR EMERGENCY CONNECTION. PROVIDE/INSTALL NORMAL SENSE POWER WIRING CONNECTIONS. MAKE ALL CONNECTIONS PER MANUFACTURER RECOMMENDATIONS.
- NETWORK EXISTING NIGHT NETWORK TO THE NEW NIGHT NETWORK USING CAT-5 CABLE SUCH THAT ALL EXISTING AND NEWLY ADDED FIXTURES CAN BE CONTROLLED WITH EXISTING AND NEWLY ADDED DIMMER SWITCH.
- DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #12 AWG CONDUCTORS TO ROUTE THE EXISTING CIRCUIT SO UPSTREAM AND DOWNSTREAM LIGHTING REMAIN FUNCTIONAL.

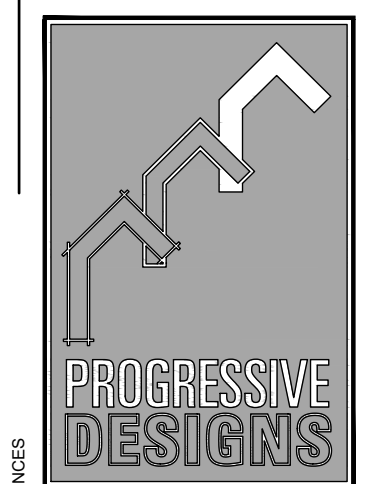
GENERAL NOTES

- OCCUPANCY SENSOR TO BE INSTALLED 4 TO 6 FEET AWAY FROM AIR SUPPLY DUCTS. THE OCCUPANCY SENSOR SHALL BE INSTALLED BETWEEN 9 TO 15 FEET ABOVE FINISHED FLOOR.
- PROVIDE NORMAL POWER FOR EMERGENCY FIXTURES AS REQUIRED PER MANUFACTURER. CONNECT TO THE UNSWITCHED SIDE.

LIGHTING SYSTEM NOTES

- ALL ROOM CONTROLLERS/POWERPACKS, NETWORKED BRIDGES, OCCUPANCY SENSOR, PHOTO SENSORS, ETC. SHALL BE NETWORKED TOGETHER WITHIN A ROOM.
- OCCUPANCY SENSING CONTROLS INSTALLED IN CORRIDORS AND STAIRWELLS SHALL SEPARATELY REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT WHEN THE SPACE IS UNOCCUPIED. WHEN THE SPACE IS OCCUPIED, THE SENSING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY TURNING THE LIGHTING FULLY ON ONLY IN THE SEPARATELY CONTROLLED SPACE REGARDLESS OF ANY OTHER CONTROL.
- ALL THE CONNECTED NIGHT BUS POWER SUPPLYING DEVICES SHOULD BE POWERED FROM THE NORMAL POWER

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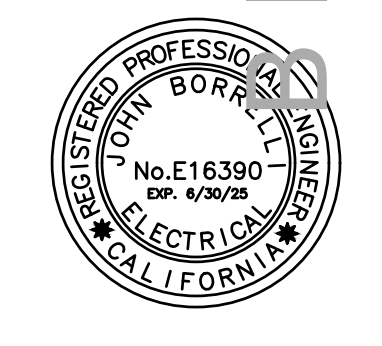
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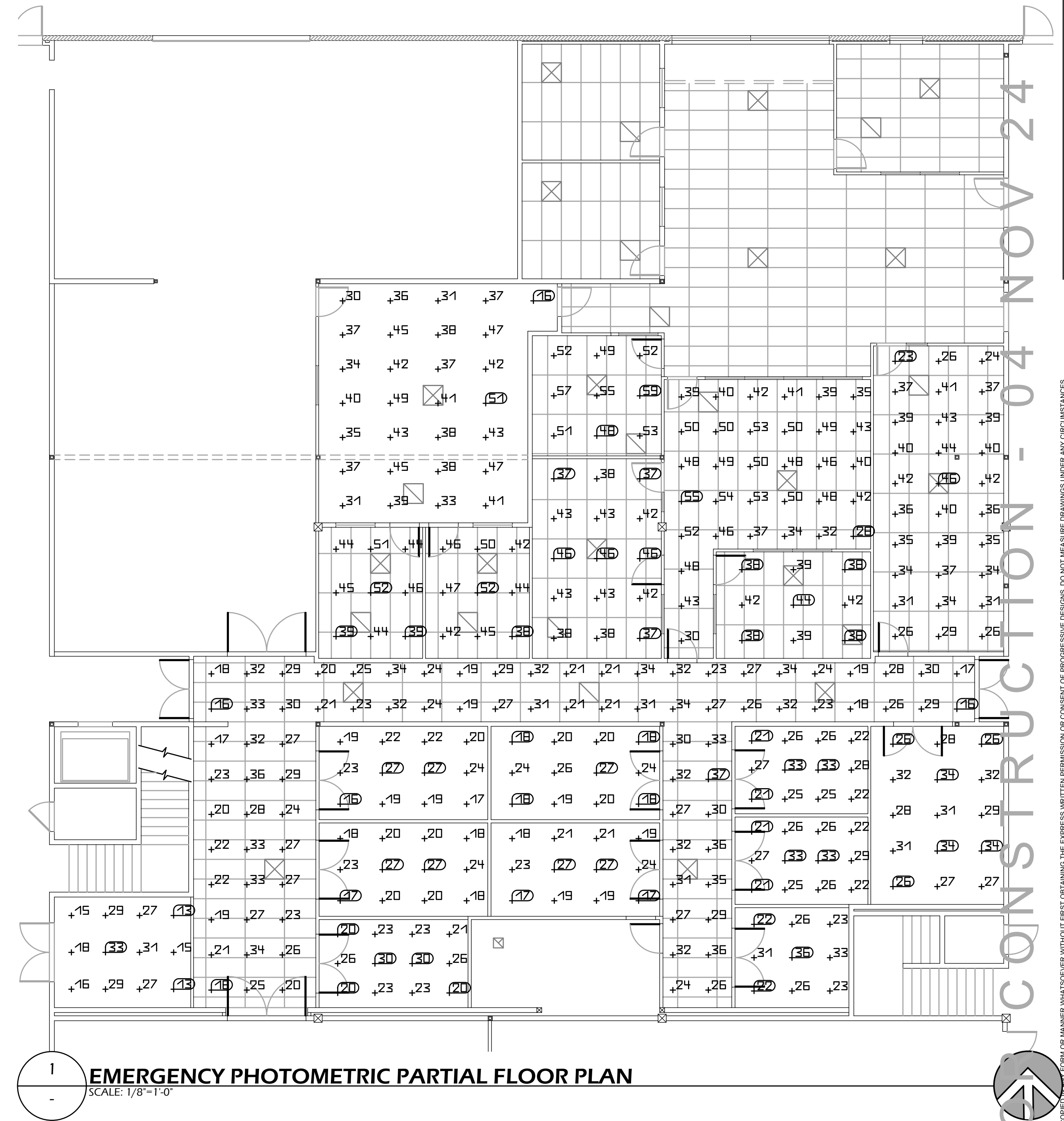
PARTIAL LIGHTING FLOOR PLANS
S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15
E3.03	



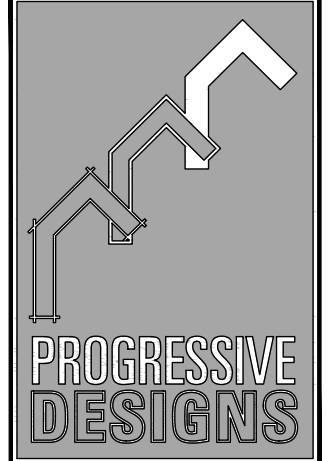
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1
EMERGENCY PHOTOMETRIC PARTIAL FLOOR PLAN
 SCALE: 1/8"=1'-0"

REVISIONS	BY



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PARTIAL EMERGENCY PHOTOMETRIC FLOOR PLAN
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DATE	SCALE	JOB	PROJECT
10-15-24	AS NOTED	658-23-15	E3.04



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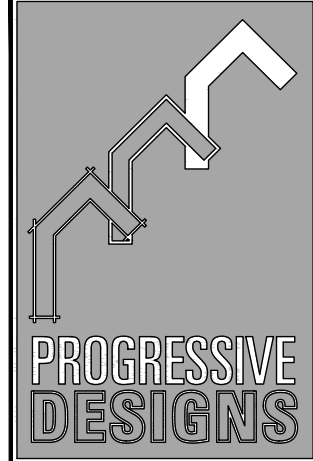
DRAWN:-

24 x 36

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC UNITS.

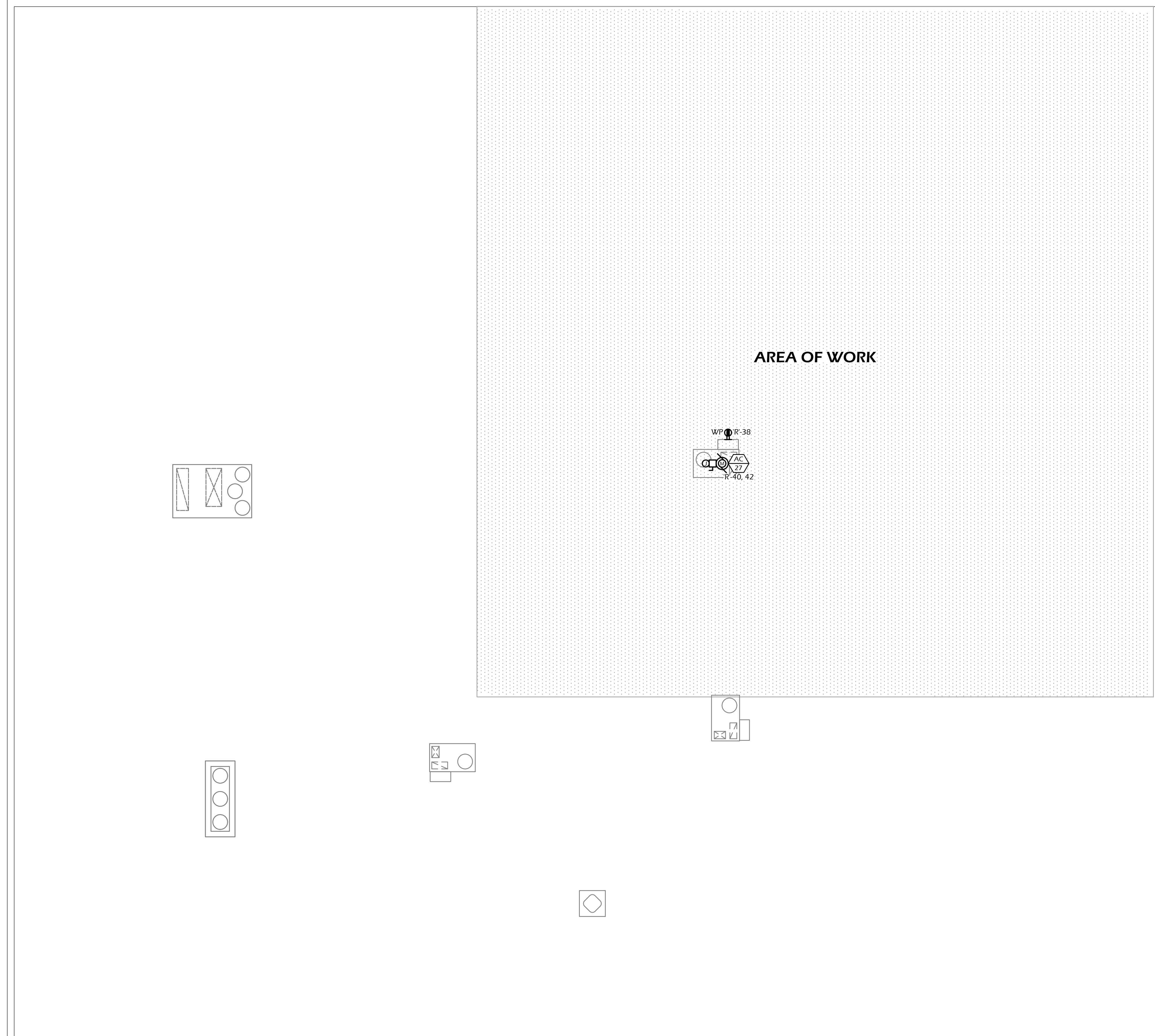
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PARTIAL ELECTRICAL ROOF PLANS
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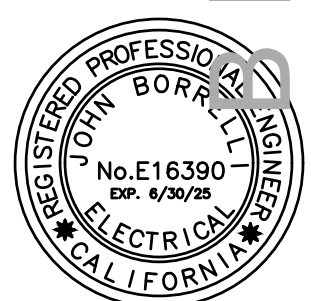
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JOB	658-23-15
E3.05	



1
PARTIAL ROOF PLAN
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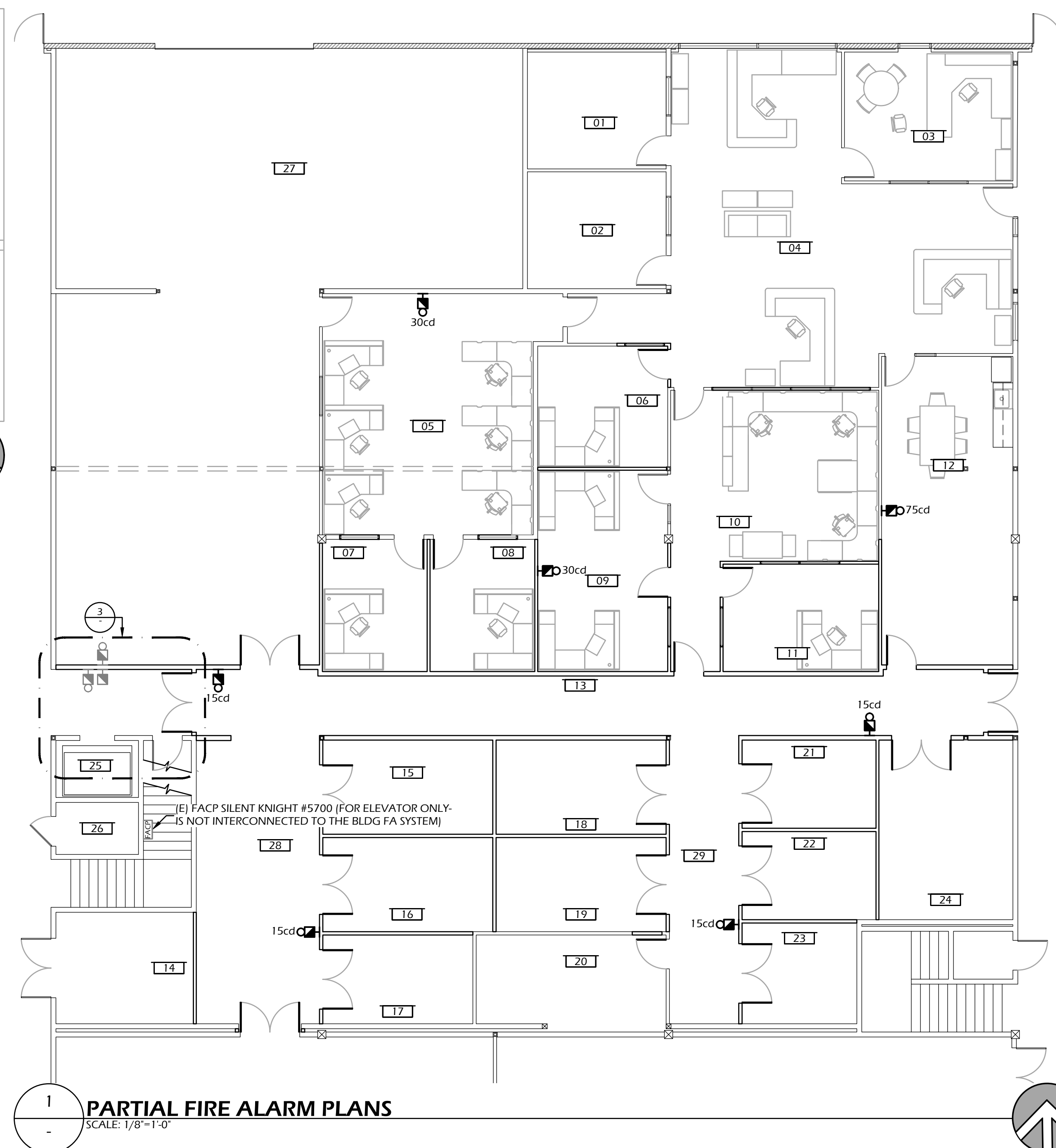
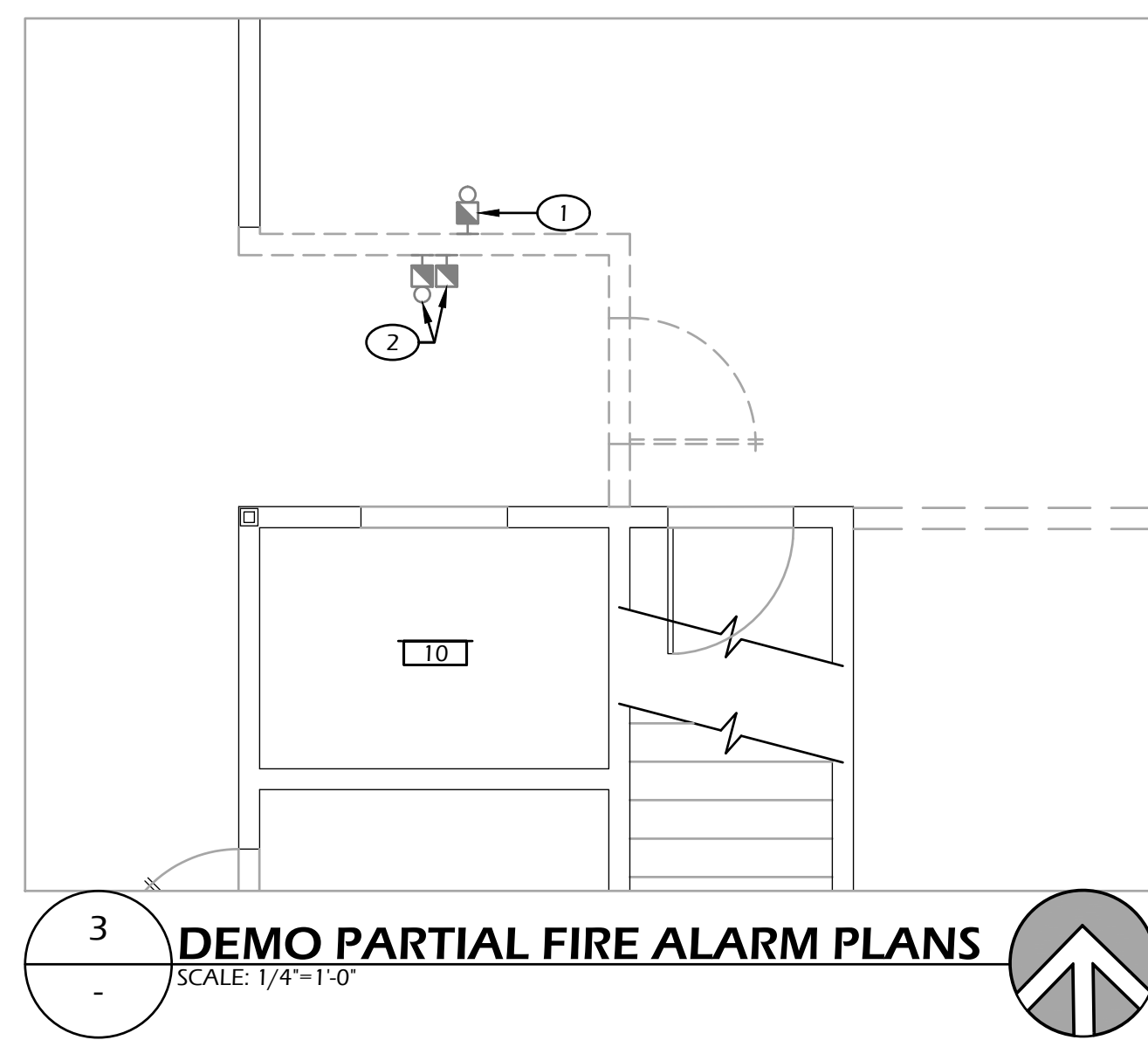


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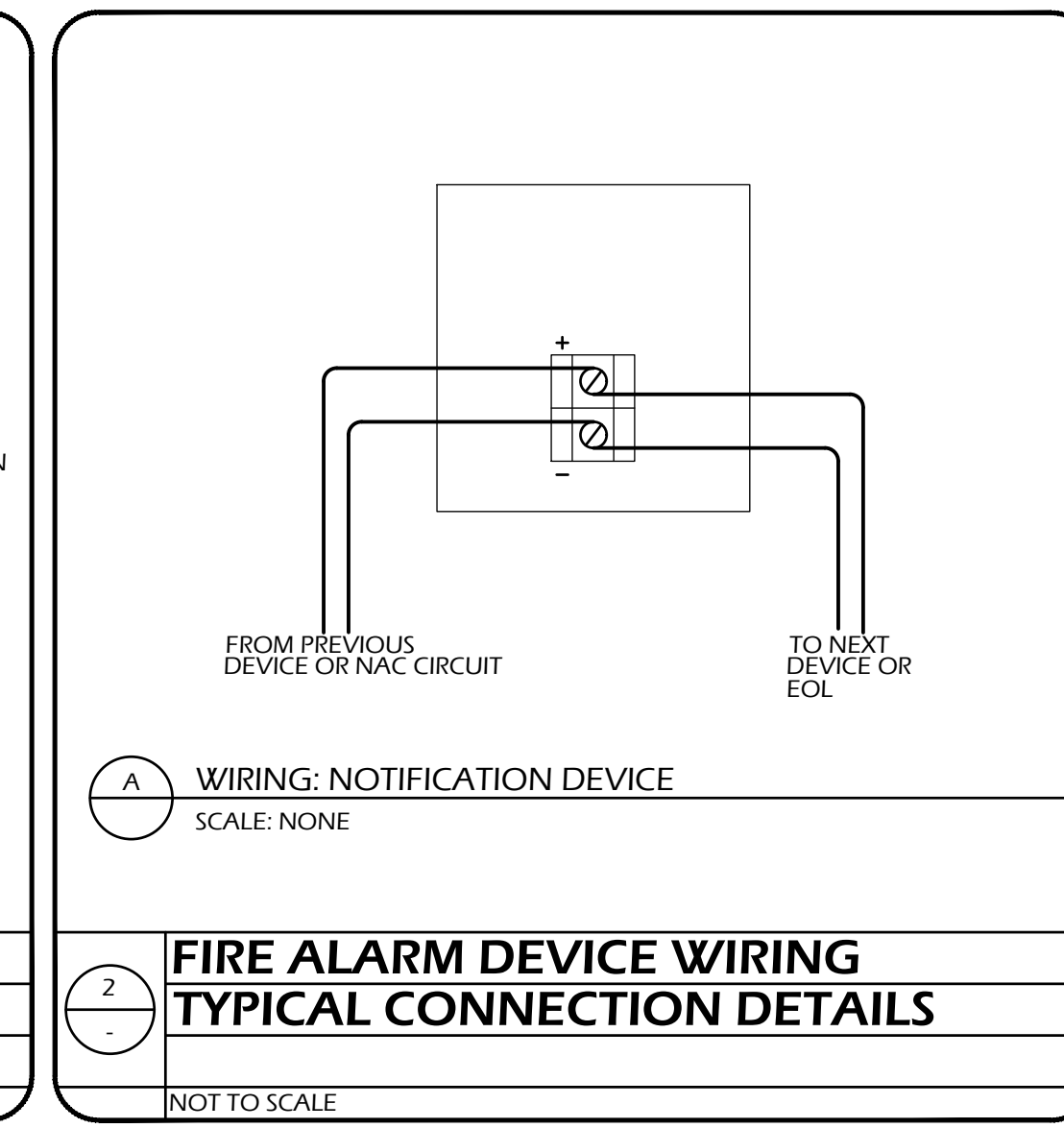
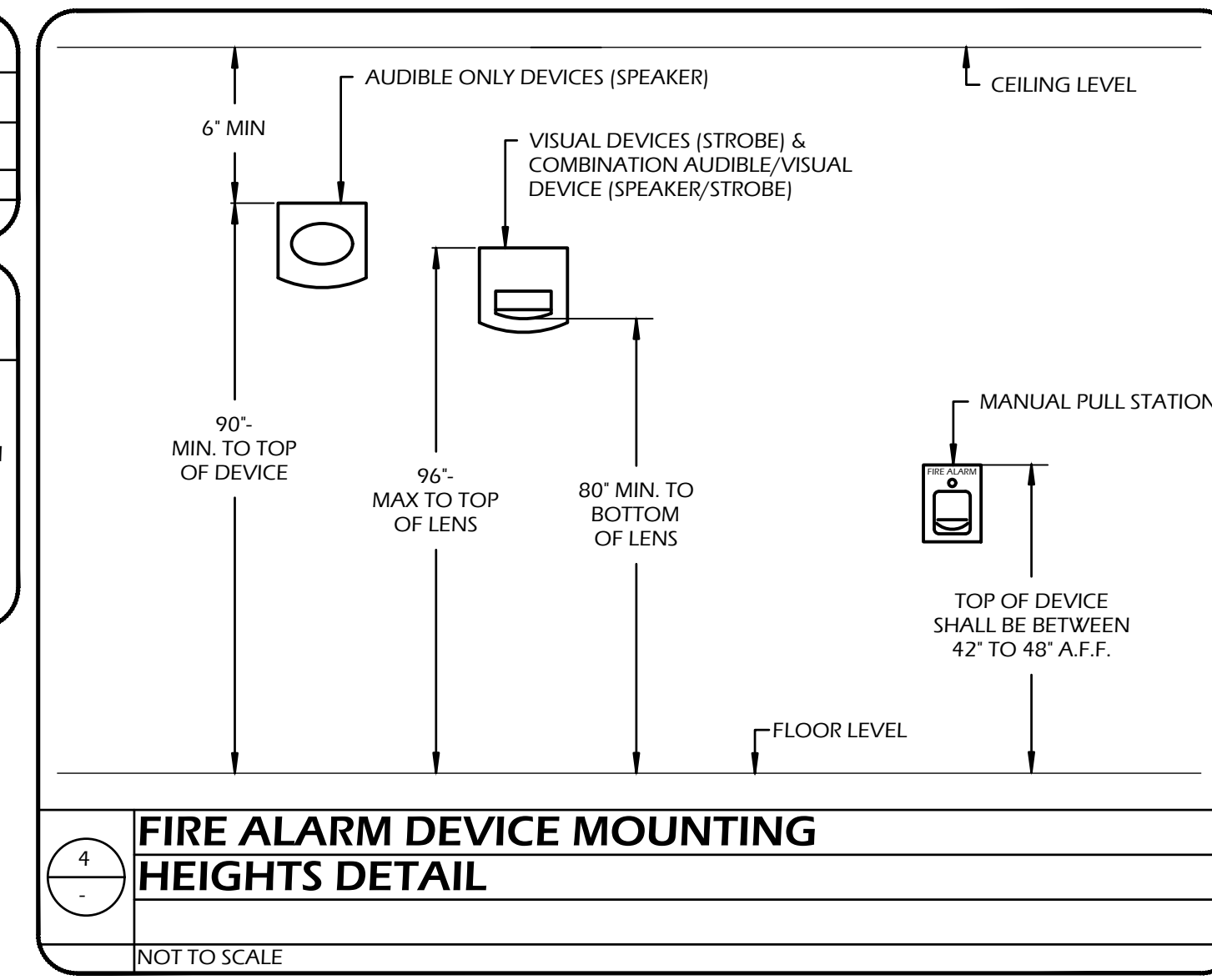
ROOM SCHEDULE			
EXISTING FLOOR PLAN			
###	ROOM NAME	###	ROOM NAME
01	OFFICE	07	OFFICE
02	OFFICE	08	BREAKROOM
03	OFFICE	09	OPERATIONS WAREHOUSE
04	WORK AREA	10	ELEVATOR
05	COPY	11	MACHINE ROOM
06	OFFICE	12	ELECTRICAL ROOM
REMODELED FLOOR PLAN			
###	ROOM NAME	###	ROOM NAME
01	OFFICE 1	16	STORAGE C
02	OFFICE 2	17	STORAGE D
03	OFFICE 3	18	STORAGE E
04	WORK AREA	19	STORAGE F
05	MAINTENANCE	20	ELECTRICAL
06	OFFICE 4	21	STORAGE G
07	OFFICE 5	22	STORAGE H
08	OFFICE 6	23	STORAGE I
09	OFFICE 7	24	STORAGE J
10	PURCHASING	25	ELEVATOR
11	OFFICE 8	26	MACHINE ROOM
12	EXTENDED BREAKROOM	27	OPERATIONS WAREHOUSE
13	HALLWAY	28	HALLWAY
14	STORAGE A	29	HALLWAY
15	STORAGE B		

- ### SHEET NOTES
- DISCONNECT THE EXISTING FIRE ALARM HORN/STROBE FROM EXISTING WALL BEING DEMO AND RELOCATE TO THE NEW WALL. PULL CONDUCTORS BACK TO THE ATTIC SPACE TO A NEW 6x6x4 NEMA 1 HINGED JUNCTION BOX. EXTEND THE EXISTING WIRING TO THE (E) RELOCATED HORN/STROBE LOCATION WITH WEST-PENN #D998 CONDUCTORS WITHIN A 3/4" CONDUIT AND MAKE ALL CONNECTIONS.
 - (E) MANUAL PULL STATION AND HORN/STROBE TO BE DISCONNECTED AND REMOVED FROM WALL BEFORE WALL DEMOLITION. (E) PULL STATION AND HORN/STROBE TO BE INSTALLED ON NEW WALL. PULL CONDUCTORS BACK TO THE ATTIC SPACE TO A NEW 6x6x4 NEMA 1 HINGED JUNCTION BOX. EXTEND THE EXISTING NOTIFICATION WIRING TO THE (E) RELOCATED HORN/STROBE LOCATION WITH WEST-PENN #D998 CONDUCTORS WITHIN A 3/4" CONDUIT. EXTEND THE EXISTING INITIATION WIRING TO THE (E) RELOCATED HORN/STROBE LOCATION WITH WEST-PENN #D990 CONDUCTORS WITHIN A 3/4" CONDUIT. MAKE ALL CONNECTIONS.

- ### GENERAL NOTES
- SEE SHEET E3.01 FOR LOCATION OF EXISTING SIMPLEX FIRE ALARM CONTROL PANEL.
 - PROVIDE AND INSTALL DUCT DETECTORS AT ALL HVAC UNITS AS REQUIRED AND CONNECT THE DUCT DETECTOR TO THE FIRE ALARM SYSTEM. THE FIRE ALARM CONTRACTOR SHALL MAKE ALL FIRE ALARM CONNECTIONS TO THE FIRE ALARM SYSTEM. THE HVAC CONTRACTOR SHALL MAKE ALL HAVE UNIT SHUT OFF CONNECTIONS FROM THE DUCT DETECTOR TO THE HVAC UNITS.

- ### FIRE ALARM SYSTEM NOTES
- THE FIRE ALARM SYSTEM IS A DEFERRED APPROVED SYSTEM.
 - ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHALL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.
 - UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY PER CHAPTER 7, NFPA 72, AND A CERTIFICATE OF COMPLETION SHALL BE PROVIDED TO THE OWNER PER CHAPTER 1, NFPA 72 AND THE CALIFORNIA FIRE CODE, SECTION 1007.3.4.
 - ALL FIRE PROTECTION SIGNALING COMPONENTS SHALL BE ONLY THOSE APPROVED AND LISTED IN THE STATE FIRE MARSHAL'S LISTING SERVICE. AN ITEMIZED MATERIALS LIST SHOWING MAKE, MODEL NUMBER AND ITS CORRESPONDING STATE FIRE MARSHAL'S LISTING NUMBER SHALL BE FURNISHED TO THE PROJECT INSPECTOR. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY WITH I.O.R. INSTALLATION REQUIREMENTS SHALL BE PER NFPA 72, CALIFORNIA BUILDING CODE, AND CALIFORNIA FIRE CODE.
 - THE FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX (CENTRAL STATION) OR UJUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011.
 - TEST, INSPECTION, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
 - ALL EXTERIOR CONNECTIONS, DEVICES, SYSTEMS, ETC. SHALL BE WEATHERPROOF.
 - ALL FIRE ALARM PATHWAYS SHALL COMPLY WITH CEC AND NFPA 72 12.4 AND 24.3.5 LEVEL 0.
 - ALL PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES SHALL BE SEALED WITH UL APPROVED SYSTEM COMPLYING WITH CEC 300.21 TO PREVENT SPREAD OF FIRE AND SMOKE.
 - AN ORIGINAL, APPROVED SET OF PLANS SHALL BE ON SITE DURING ANY FIRE DEPARTMENT INSPECTIONS.
 - PROVIDE FIRE ALARM RECORD OF COMPLETION TO AUTHORITY HAVING JURISDICTION AT FINAL ACCEPTANCE TESTING.

- ### FIRE ALARM SYMBOL LIST
- | SYMBOL | DEVICE TYPE |
|--------|---|
| | (E) FIRE ALARM CONTROL PANEL (FACP) FCI(FIRE CONTROL INSTRUMENTS) |
| | HORN MOUNTED WALL STROBE |
- ### DEFERRED FIRE ALARM PLAN SUBMITTAL NOTE
- THE FIRE ALARM PLANS ARE FOR BIDDING PURPOSES ONLY. THE FIRE ALARM CONTRACTOR SHALL SUBMIT THEIR SET OF FIRE ALARM PLANS TO THE LOCAL FIRE MARSHAL WITH FULL VOLTAGE DROP AND BATTERY CALCULATIONS, CFM LISTING AND DATA SHEETS AS REQUIRED TO OBTAIN APPROVAL WHERE THE PROJECT IS BEING CONSTRUCTED. FIRE ALARM CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUIRED BY THE FIRE MARSHAL. A SEPARATE PERMIT FOR THE FIRE ALARM SYSTEM SHALL BE ISSUED. THE FIRE ALARM SYSTEM PERMIT SHALL NOT RIDE ON THE BUILDING PERMIT.



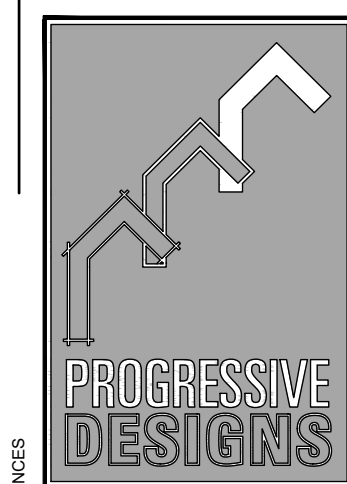
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DATE 10-15-24
 SCALE AS NOTED
 JOB 658-23-15

E4.01

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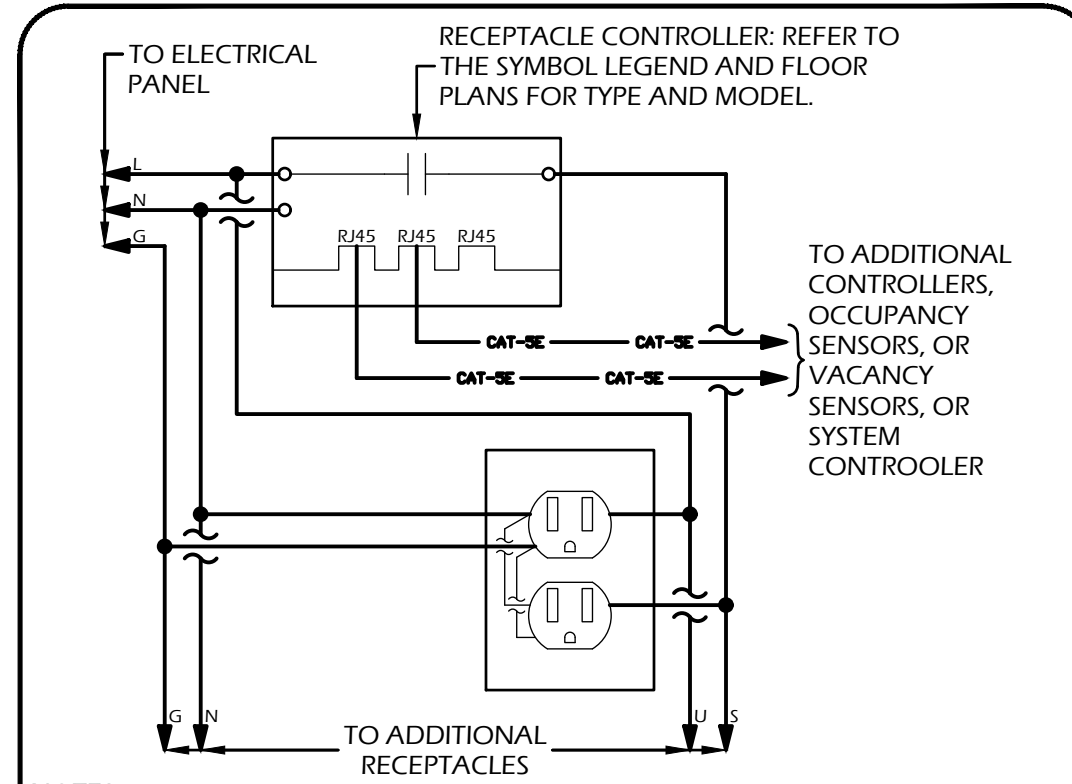
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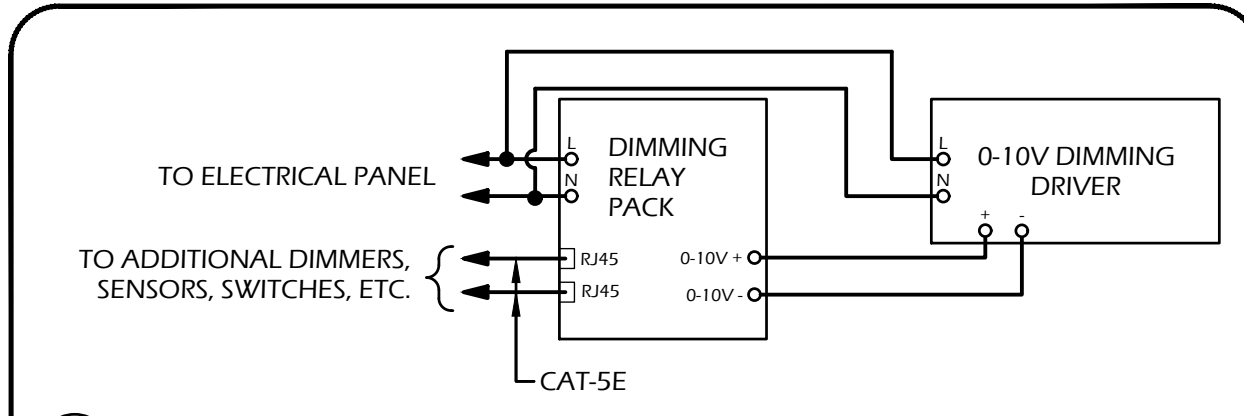
PARTIAL FIRE ALARM PLANS
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24 x 36
DRAWING -
FILENAME -
DATE -

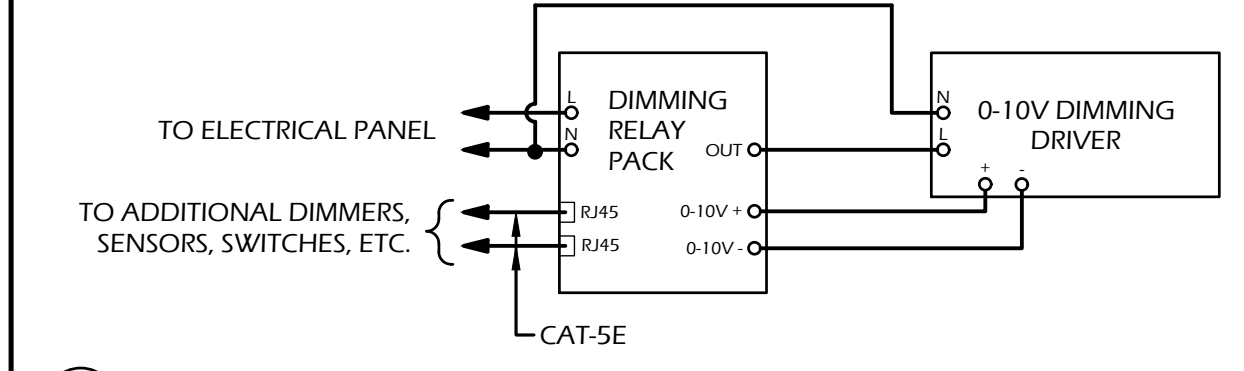


- NOTES:
- ALL CONDUCTORS ARE #12 AWG, U.O.N.
 - CABLES BETWEEN CONTROLLERS, BRIDGE, OCCUPANCY SENSORS, AND VACANCY SENSORS ARE CAT-5E WITH RJ-45 CONNECTORS.
 - PROGRAM RECEPTACLE CONTROLLER TO TURN OFF SWITCHED RECEPTACLES ONLY WHEN SENSORS DETECT THE ROOM IS EMPTY. RECEPTACLES SHALL NOT BE SWITCHED BY LIGHT SWITCHES OR DIMMERS. RECEPTACLES SHALL BE SWITCHED OFF 1 MINUTE AFTER LIGHTS.
 - ROOMS REQUIRING SWITCH RECEPTACLES ARE OFFICES, LOBBIES, CONFERENCE ROOMS, KITCHENS, AND COPY ROOMS. RECEPTACLES SUPPLYING EQUIPMENT TO REMAIN ON WHEN ROOM IS VACANT, SUCH AS REFRIGERATORS, NETWORK PRINTERS, NETWORK EQUIPMENT, ETC., ARE EXEMPT.

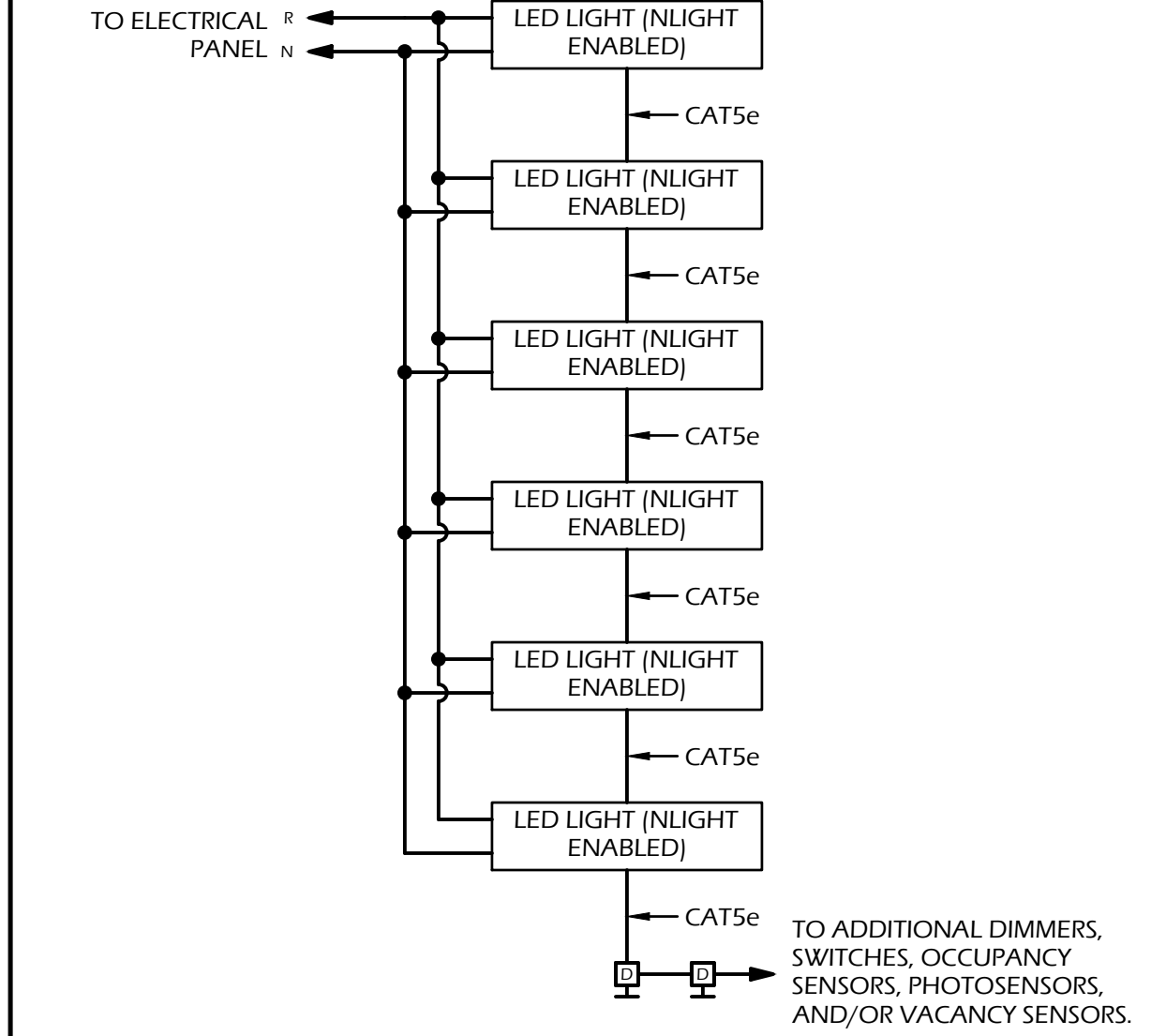
7
TYPICAL SWITCHED RECEPTACLE CONTROL
NOT TO SCALE



A
NPS-80-EZ DIMMING PACK



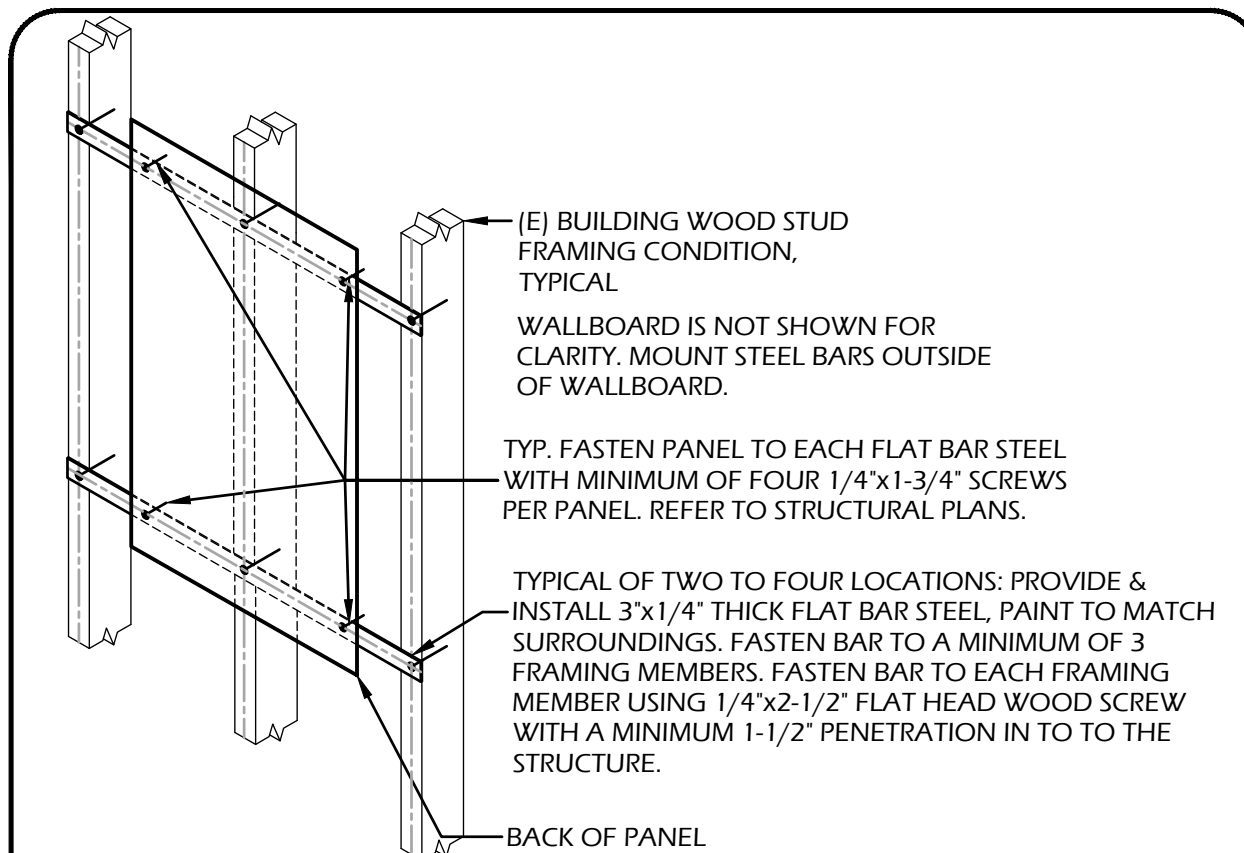
B
NPP-16 DIMMING PACK



- NOTES:
- ALL CONDUCTORS ARE #12 AWG, U.O.N.
 - CABLES BETWEEN NLIGHT ENABLED DEVICES ARE CAT-5E WITH RJ-45 CONNECTORS.
 - PROVIDE ALL PROGRAMMING FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

C
NLIGHT ENABLED LIGHT FIXTURES

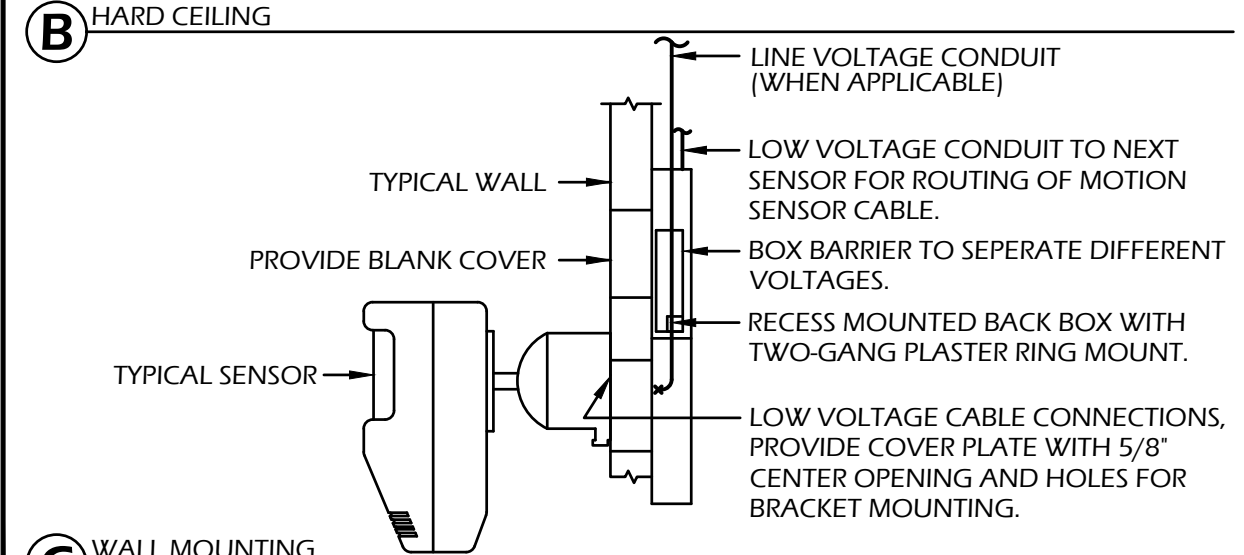
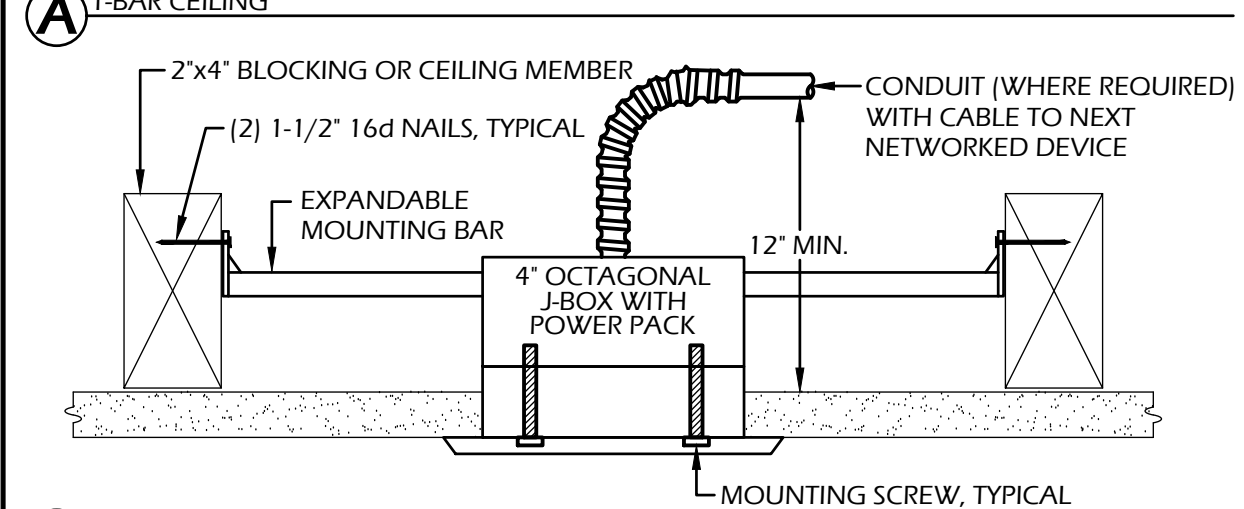
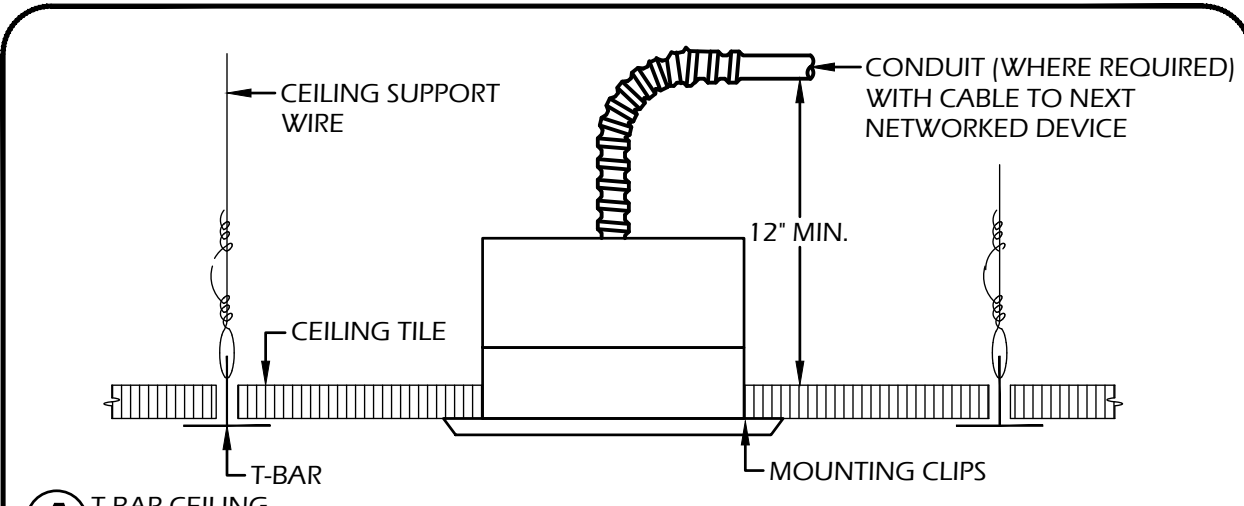
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TYPICAL 0-10VDC LOCAL ROOM DIGITAL DIMMING CONTROL (NLIGHT)
NOT TO SCALE



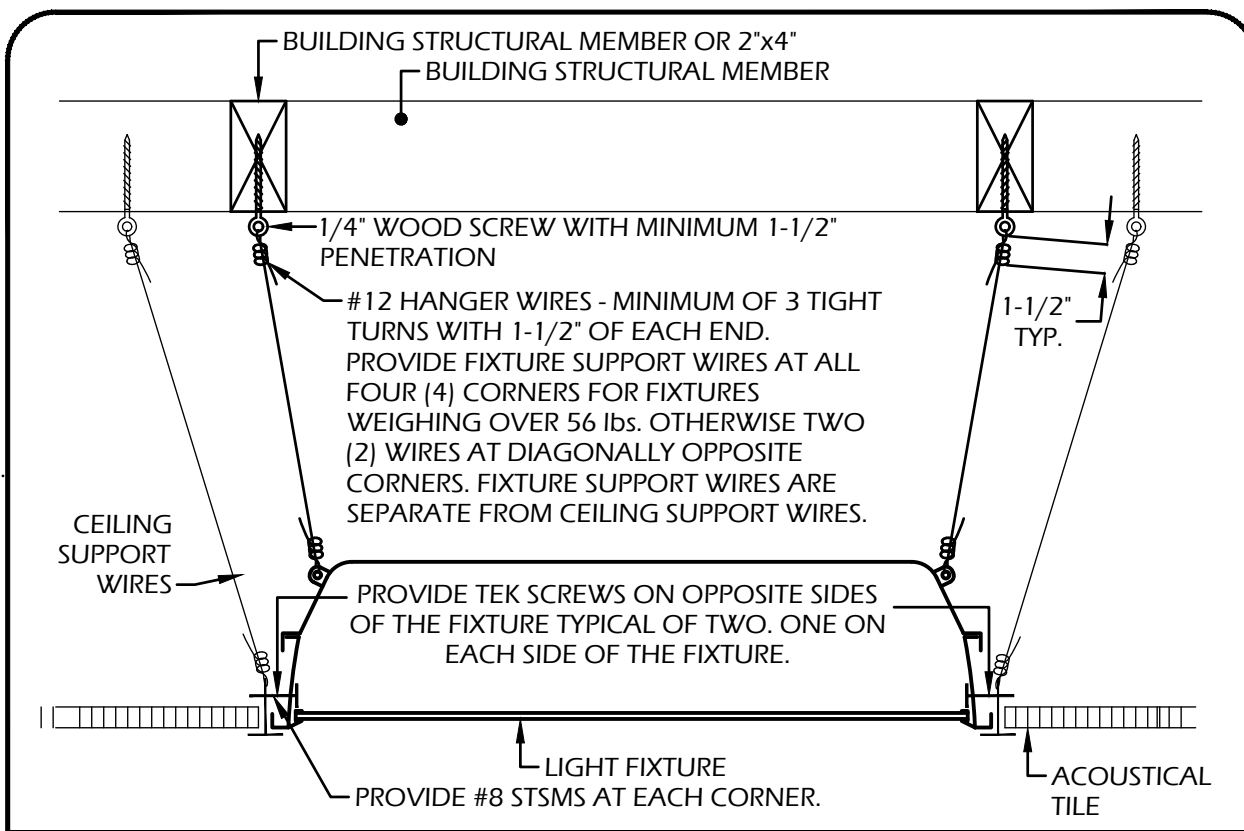
WIDTH	DEPTH	HEIGHT	WEIGHT	ANCHORING		
				QTY.	DIA.	LENGTH
NOTE 1	NOTE 1	NOTE 1	NOTE 1	4	1/4"	2-1/2"

- NOTE:
- REFER TO ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE ON SHEET E1.03.

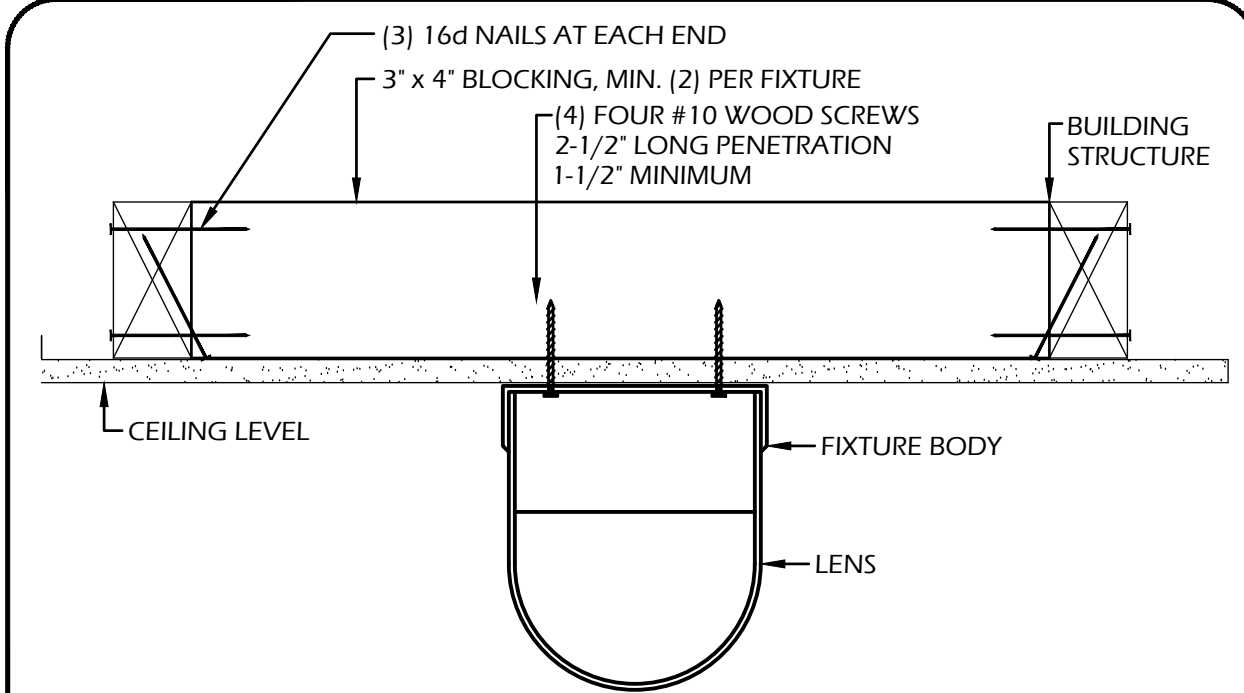
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WALL MOUNTED PANEL MOUNTING DETAIL FOR WOOD FRAMEWORK
NOT TO SCALE



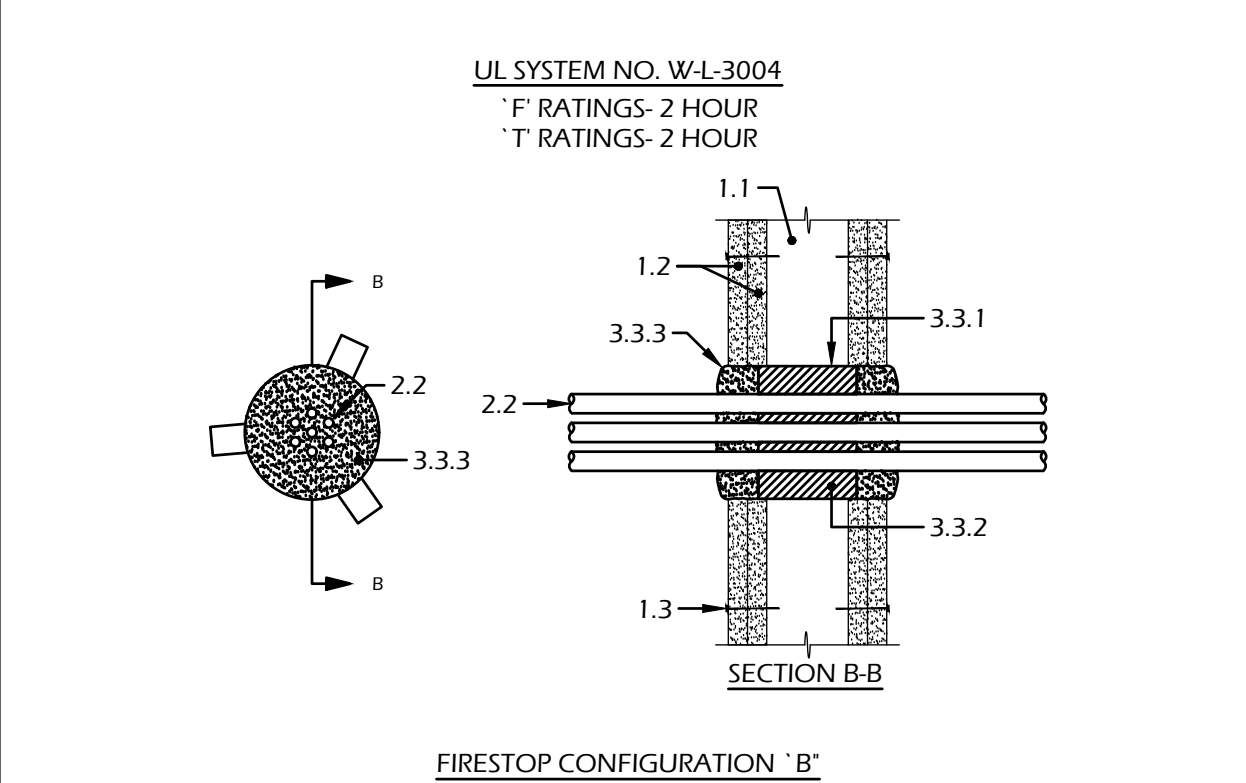
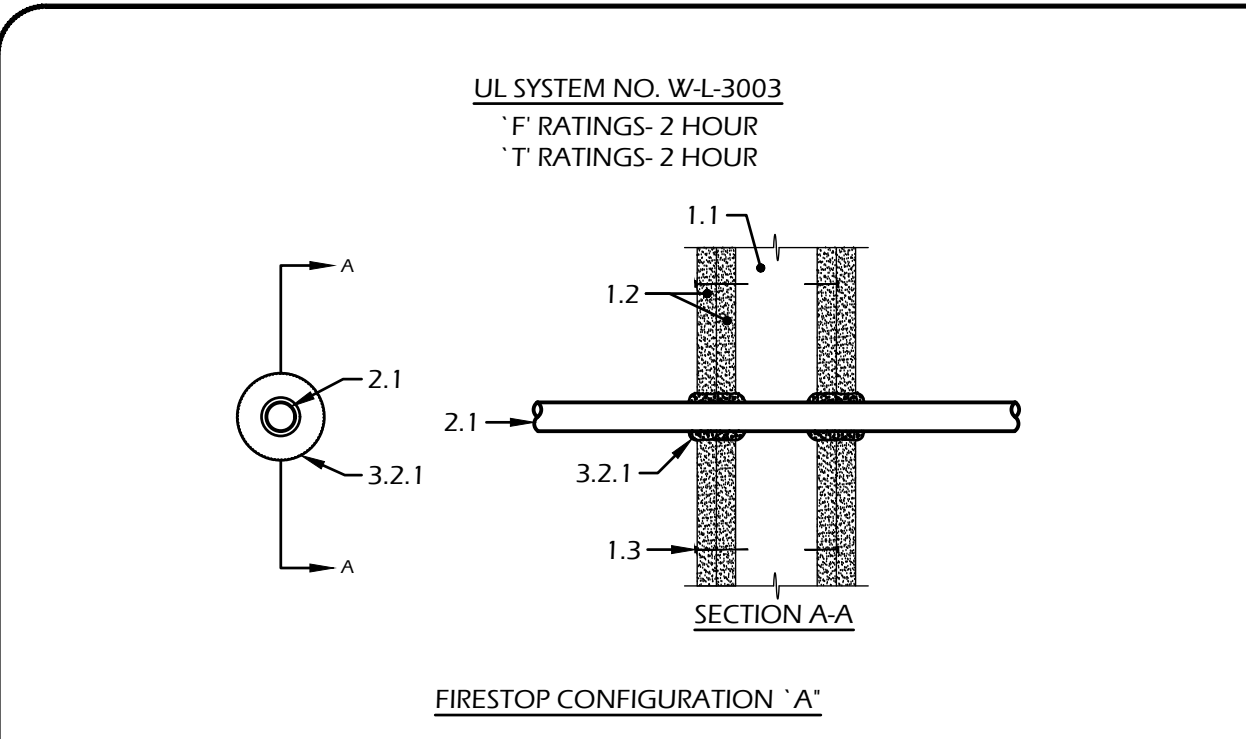
2
INTERIOR LIGHTING OCCUPANCY SENSOR NON-RESIDENTIAL APPLICATIONS
NOT TO SCALE



3
LIGHT FIXTURE IN T-BAR CEILING WOOD FRAMING
NOT TO SCALE

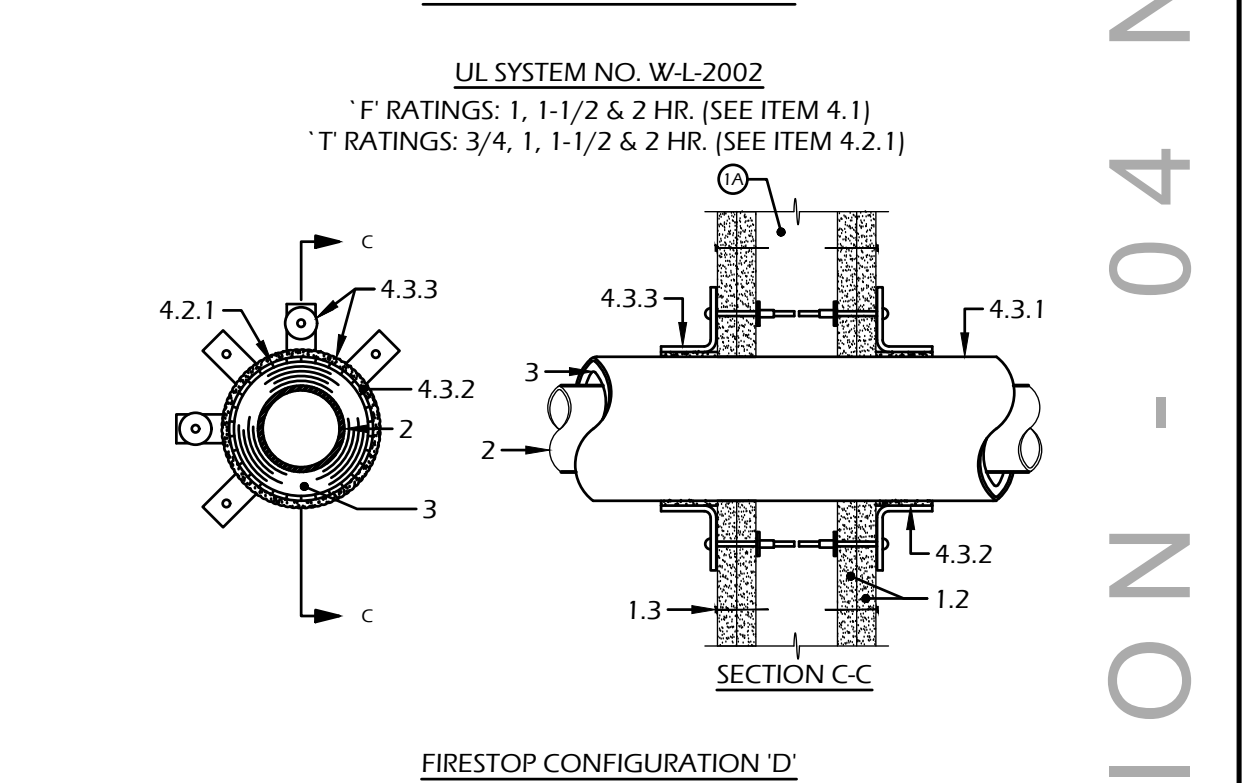
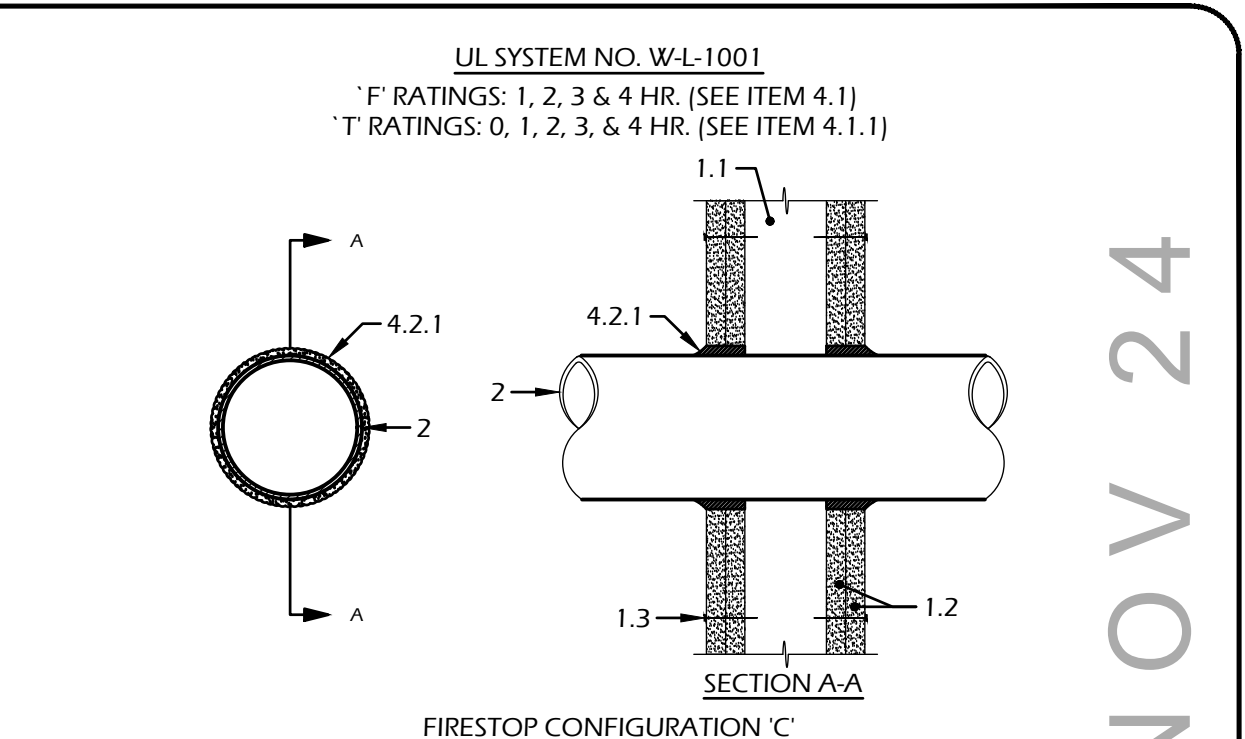


4
TYPICAL SURFACE MOUNTED FIXTURE ON HARD CEILING
NOT TO SCALE



1. WALL ASSEMBLY
- STUDS- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS.
 - WALLBOARD, GYPSUM- 5/8" THICK.
 - FASTENERS- 1-7/8" LONG 6D CEMENT COATED NAILS.
2. CABLES
- 50 PAIR (OR SMALLER) #24 AWG TELEPHONE CABLE WITH POLYVINYL CHLORIDE JACKET WITH POLYVINYL CHLORIDE INSULATION.
 - TWO CONDUCTOR #24 AWG (OR SMALLER) WITH POLYVINYL CHLORIDE JACKET WITH POLYETHYLENE INSULATION.
3. FIRESTOP SYSTEM
- INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE FIRESTOP CONFIGURATION (A' OR B') IS DEPENDENT UPON THE TYPE AND SIZE OF THE CABLE AND THE SIZE OF THE ANNULAR SPACE BETWEEN THE CABLE AND THE PERIMETER OF THE CIRCULAR THROUGH OPENING AS TABULATED BELOW:
 - ONE 50 PAIR, #24 AWG CABLE: 3/16" ANNULAR SPACE, FIRESTOP CONFIGURATION A.
 - UP TO SEVEN 2 CONDUCTOR, #20 AWG CABLES: 3/8" ANNULAR SPACE, FIRESTOP CONFIGURATION B.
 - FIRESTOP CONFIGURATION 'A'
 - FILL VOID OR CAVITY MATERIAL (PUTTY)- MIN. 1-1/2" THICK LAYER OF PUTTY FIRMLY PACKED WITHIN THE OPENING. ADDITIONAL PUTTY INSTALLED SUCH THAT A MIN. 1/8" CROWN IS FORMED AROUND THE CIRCUMFERENCE TYPE 'FSP'.
 - FIRESTOP CONFIGURATION 'B'
 - STEEL SLEEVE- NOMINAL 5" LONG CYLINDRICAL SLEEVE WITH NOMINAL 3/4" BY 3" LONG TABS TO RETAIN PUTTY IN POSITION. SLEEVE FORMED OF PRECUT 0.016" THICK (#30 GA.) GALVANIZED STEEL SHEET AVAILABLE FROM PUTTY MANUFACTURERS. FORMING MATERIAL- MINERAL WOOL INSULATION HAVING A MIN. DENSITY OF 6 PCF, FIRMLY PACKED WITHIN THE SLEEVE TO A MIN. THICKNESS OF 4".
 - FILL VOID OR CAVITY MATERIAL (PUTTY)- MIN. 1" THICK LAYER OF PUTTY MATERIAL FIRMLY PACKED TO FILL THE ANNULAR SPACE BETWEEN THE CABLES, MINERAL WOOL AND PERIPHERY OF THE OPENING. ADDITIONAL PUTTY SHOULD BE INSTALLED SUCH THAT A MIN. 1/8" CROWN IS FORMED AROUND THE CABLES. (NELSON ELECTRIC, UNIT OF GENERAL SIGNAL CORP.- TYPE FSP.)

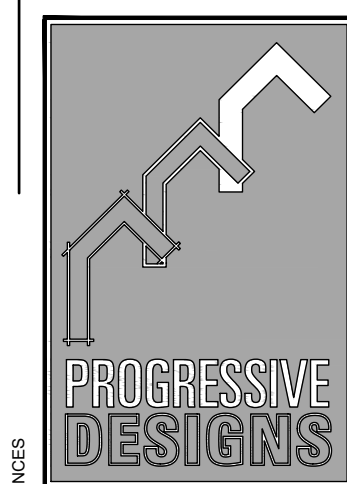
1
CONDUIT/CABLE PENETRATIONS THRU RATED STUD/WALLBOARD ASSEMBLY DETAIL (TYPICAL)
NOT TO SCALE



- 4.1. INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY 'F' RATING OF THE FIRESTOP SYSTEM IS EITHER (1) OR (2) HOUR DEPENDING UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY 'T' RATINGS FOR THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE SIZE OF THE STEEL PIPE OR CONDUIT, THE ABSENCE OR PRESENCE OF PIPE COVERING (ITEM 3), THE FIRESTOP CONFIGURATION AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- MAXIMUM 1" Ø CONDUIT: 3/16" ANNULAR SPACE, FIRESTOP CONFIGURATION C, 1 OR 2 HOUR 'T' RATING
 - MAXIMUM 4" Ø CONDUIT AND 1" COVERING: 3/8" ANNULAR SPACE, FIRESTOP CONFIGURATION D, 1 OR 2 HOUR 'T' RATING
- 4.2. FIRESTOP CONFIGURATION 'C'
- FILL VOID OR CAVITY MATERIAL - CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE TO MAX EXTENT POSSIBLE AND WITH A MIN. 1/4" DIAM. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL.
- 4.3. FIRESTOP CONFIGURATION 'D'
- FILL VOID OR CAVITY MATERIALS (WRAP STRIP)- NOMINAL 1/4" THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL SUPPLIED IN 2" WIDE STRIPS. NOMINAL 2" WIDE STRIP, TIGHTLY WRAPPED AROUND PIPE COVERING (FOI SIDE OUT) WITH SEAM BUTTED AND WITH EDGE OF WRAP STRIP ABUTTING WALL SURFACE. WRAP STRIP TEMPORARILY HELD IN POSITION WITH ALUMINUM FOIL TAPE, STEEL WIRE TIE OR EQUIVALENT.
 - FILL VOID OR CAVITY MATERIALS (CAULK)- GENEROUS BEAD OF CAULK TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACE.
 - STEEL COLLAR- NOMINAL 2" DEEP COLLAR WITH 1-1/4" WIDE BY 2" LONG ANCHOR TABS AND MINIMUM 1/4" LONG TABS TO RETAIN WRAP STRIP LAYER. COILS OF PRECUT 0.016" THICK (NO. 30 GAUGE) GALVANIZED SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER.

3
CONDUIT/CABLE PENETRATIONS THRU RATED STUD/WALLBOARD ASSEMBLY DETAIL (TYPICAL)
NOT TO SCALE

REVISIONS	BY



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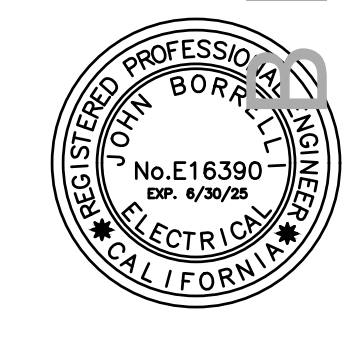
TYPICAL ELECTRICAL DETAILS
 S.J.CO.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15

E5.01



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http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com
BAI Project #24139



STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 3 of 4)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-10-21T11:40:37-04:00

H. VOLTAGE DROP

XFMR-TX-R	<input checked="" type="checkbox"/>	Voltage drop less than 5%	<input type="checkbox"/>	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible	<input type="checkbox"/>	<input type="checkbox"/>
-----------	-------------------------------------	---------------------------	--------------------------	--	------------------------	--------------------------	--------------------------

* NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
 † FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
 NRCC-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 There are no forms required for this project.

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 214063-1024-0015
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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 4 of 4)
2707 TRANSWORLD DRIVE STOCKTON, CA 95206 Date Prepared: 2024-10-21T11:40:37-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Borrelli, PE
 Signature Date: [559] 233-4138
 Company: Borrelli and Associates, Inc.
 Address: 2032 NORTH GATEWAY BOULEVARD
 City/State/Zip: FRESNO, CA 93727
 CEA/HERS Certification Identification (if applicable):

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN BORRELLI, P.E.
 Signature Date: [559] 233-4138
 Company: BORRELLI AND ASSOCIATES, INC.
 Address: 2032 NORTH GATEWAY BOULEVARD
 City/State/Zip: FRESNO, CA 93727
 License: E16390

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 1 of 4)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-10-21T11:40:37-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	02	Climate Zone	12
			03	Occupancy Types Within Project:	Office

B. PROJECT SCOPE
 This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a) ³	System subject to CA Elec Code Article 517 Exception to 130.5(a) and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
PANEL R	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>
XFMR-TX-R	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

† FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.

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STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 2 of 4)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-10-21T11:40:37-04:00

B. PROJECT SCOPE
 This table includes electrical systems that are within the scope of the permit application.
 † If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
 ‡ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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

01	02	03	04	05	06				
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/160.6(d) (See Table I)	AND	Electric Ready 160.9 (See Table J)	COMPLIANCE RESULTS
	AND		AND	Yes	AND				COMPLIES

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

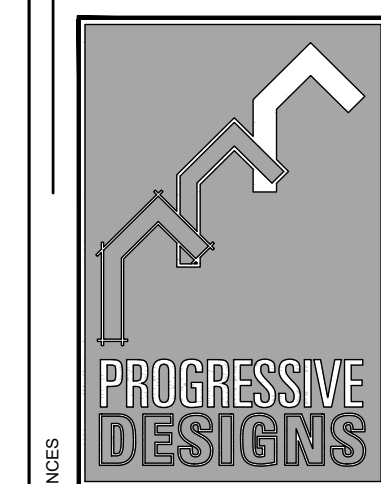
E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP
 This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/180.2(b)4Bviii.

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspection
PANEL R	<input checked="" type="checkbox"/> Voltage drop less than 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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REVISIONS	BY



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 POWER TITLE 24
 S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15
E6.01	

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 3 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces										
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
B1	2-FT. x 2-FT., 3,267 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING AND EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	No	NA	22.7	Mfr. Spec	20	No	454	<input type="checkbox"/>	<input type="checkbox"/>
B2	2-FT. x 2-FT., 4,310 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING AND EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	No	NA	30.7	Mfr. Spec	10	No	307	<input type="checkbox"/>	<input type="checkbox"/>
G1	2-FT. x 4-FT., 4,078 LUMENS (NOMINAL) LED FIXTURE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING	No	NA	23.3	Mfr. Spec	2	No	46.6	<input type="checkbox"/>	<input type="checkbox"/>

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 4 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces										
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
G2	2-FT. x 2-FT., 2,337 LUMENS (NOMINAL) LED FIXTURE SURFACE MOUNTED. FIXTURE SHALL HAVE CONTINUOUS 0-10V DIMMING AND EMERGENCY DRIVER AT EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGHTING PLAN.	No	NA	18.4	Mfr. Spec	2	No	36.8	<input type="checkbox"/>	<input type="checkbox"/>
A3	2-FT. x 4-FT., 4,858 LUMENS, SURFACE MOUNTED, DIMMING DRIVER	No	NA	40	Mfr. Spec	6	No	240	<input type="checkbox"/>	<input type="checkbox"/>
A2	2-FT. x 4-FT., 4,321 LUMENS, MOUNTED IN T-BAR CEILING, FIXTURE TO HAVE 0-10V DIMMING DRIVER.	No	NA	30.3	Mfr. Spec	12	No	363.6	<input type="checkbox"/>	<input type="checkbox"/>

Total Designed Watts: **CONDITIONED SPACES** 1,448

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 1 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

A. GENERAL INFORMATION

01 Project Location (city)	Stockton	04 Total Conditioned Floor Area (ft ²)	3,296.79
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft ²)	1,546.88
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

• School or Classroom

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
	01	02	03	04
My Project Consists of (check all that apply):				
<input checked="" type="checkbox"/> New Lighting System	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input type="checkbox"/> New Lighting System - Parking Garage	Area Category Method	3296.79	Area Category Method	1546.88
	N/A	0	N/A	0
Total Area of Work (ft²)		3296.79		1546.88

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 2 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)		
Conditioned	1,776.94				1,776.94	1,448		1,448	COMPLIES
Unconditioned	618.75				618.75	563.2		563.2	COMPLIES

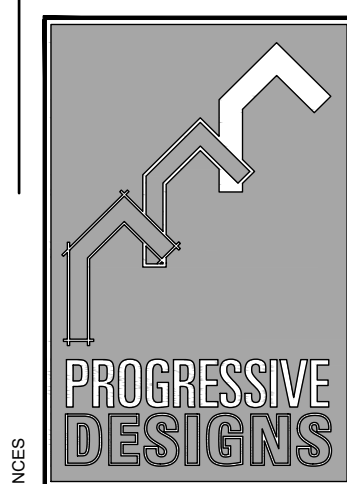
Controls Compliance (See Table H for Details) COMPLIES
Rated Power Reduction Compliance (See Table Q for Details) COMPLIES

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

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

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INDOOR LIGHTING TITLE 24
S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
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E6.02	

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BAI Project #24139

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Room	Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No		
Office 4	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Office 5	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Office 6	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Office 7	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Office 8	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Purchasing	General Commercial Industrial Work AreaLow Bay	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Breakroom	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance	General Commercial Industrial Work AreaLow Bay	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
RM #13	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
RM #28	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
RM #29	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>

13
Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

Area	01	02	03	04	05	06
Office 4	Office (<=250 square feet)	0.65	160.52	104.34	No	No
Office 5	Office (<=250 square feet)	0.65	140.85	91.55	No	No
Office 6	Office (<=250 square feet)	0.65	140.98	91.64	No	No
Office 7	Office (>250 square feet)	0.6	266.29	159.77	No	No
Office 8	Office (<=250 square feet)	0.65	170.24	110.66	No	No
Purchasing	General Commercial Industrial Work AreaLow Bay	0.6	417.77	250.66	No	No
Breakroom	Lounge	0.55	412.36	226.8	No	No
Maintenance	General Commercial Industrial Work AreaLow Bay	0.6	532.09	319.25	No	No
RM #13	Corridor	0.4	496.2	198.48	No	No
RM #28	Corridor	0.4	356.08	142.43	No	No
RM #29	Corridor	0.4	203.41	81.36	No	No
TOTALS:			3,296.79	1,776.94		See Tables J, or P for detail

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	01	02	03	04	05	06
Office 4	Office (<=250 square feet)	0.65	160.52	104.34	No	No
Office 5	Office (<=250 square feet)	0.65	140.85	91.55	No	No
Office 6	Office (<=250 square feet)	0.65	140.98	91.64	No	No
Office 7	Office (>250 square feet)	0.6	266.29	159.77	No	No
Office 8	Office (<=250 square feet)	0.65	170.24	110.66	No	No
Purchasing	General Commercial Industrial Work AreaLow Bay	0.6	417.77	250.66	No	No
Breakroom	Lounge	0.55	412.36	226.8	No	No
Maintenance	General Commercial Industrial Work AreaLow Bay	0.6	532.09	319.25	No	No
RM #13	Corridor	0.4	496.2	198.48	No	No
RM #28	Corridor	0.4	356.08	142.43	No	No
RM #29	Corridor	0.4	203.41	81.36	No	No
TOTALS:			3,296.79	1,776.94		See Tables J, or P for detail

Unconditioned Spaces

Area Description	01	02	03	04	05	06
Storage A	All Other Space Types	0.4	156.08	62.43	No	No
Storage B	All Other Space Types	0.4	162.66	65.06	No	No
Storage C	All Other Space Types	0.4	162.94	65.18	No	No
Storage D	All Other Space Types	0.4	135.72	54.29	No	No
Storage E	All Other Space Types	0.4	163.06	65.22	No	No
Storage F	All Other Space Types	0.4	162.98	65.19	No	No
Storage G	All Other Space Types	0.4	120.3	48.12	No	No

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F. INDOOR LIGHTING FIXTURE SCHEDULE

Fixture Locations Indicated on Lighting Plan	Total Designed Watts UNCONDITIONED SPACES
	563.2

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
 This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

Area	01	02	03
Mandatory Demand Response 110.12(c)		Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel		See Area/Space Level Controls	Pass Fail

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

Area Description	04	05	06	07	08	09	10	11	12
Storage A	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage B	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage C	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage D	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage E	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage F	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage G	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage H	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage I	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage J	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>
Hallway	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>

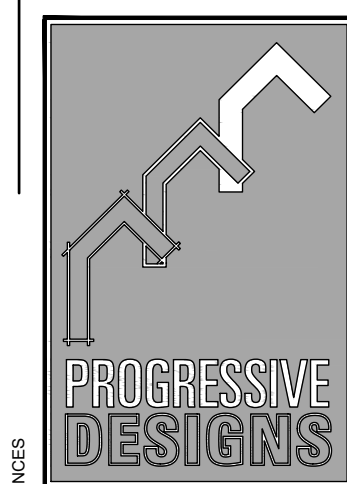
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 BAI Project #24139
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INDOOR LIGHTING TITLE 24
 S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT
 2707 TRANSWORLD DRIVE STOCKTON, CA 95206

DATE	10-15-24
SCALE	AS NOTED
JOB	658-23-15
E6.03	

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
NRCCLTI-E

CERTIFICATE OF COMPLIANCE
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 11 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/ttlc24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Storage A; Storage B; Storage C; Storage D; Storage E; Storage F; Storage G; Storage H; Storage I; Storage J; Hallway; Office 4; Office 5; Office 6; Office 7; Office 8; Purchasing; Breakroom; Maintenance; RM #13; RM #28; RM #29

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
NRCCLTI-E

CERTIFICATE OF COMPLIANCE
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 12 of 12)
2707 TRANSWORLD DRIVE, STOCKTON, CA 95206 Date Prepared: 2024-11-01T17:09:35-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Borrelli, PE
Company: Borrelli and Associates, Inc.
Address: 2032 North Gateway Boulevard
City/State/Zip: Fresno, CA 93727
CEA/HERS Certification Identification (if applicable):
Phone: (559) 233-4138

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Borrelli, PE
Company: Borrelli and Associates, Inc.
Address: 2032 North Gateway Boulevard
City/State/Zip: Fresno, CA 93727
Responsible Designer Signature:
Date Signed: E 16390
License:
Phone: (559) 233-4138

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE
Project Name: S.J.C.O.E. - OPERATIONS OFFICE TENANT IMPROVEMENT Report Page: (Page 9 of 12)
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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Storage	All Other Space Types	0.4	120.24	48.1	No	No
Storage H	All Other Space Types	0.4	117.78	47.11	No	No
Storage I	All Other Space Types	0.4	245.12	98.05	No	No
Storage J	All Other Space Types	0.4				
TOTALS:			1,546.88	618.75	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

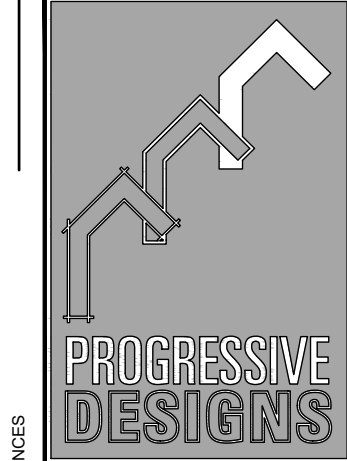
T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCLTI-E - Must be submitted for all buildings

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BAI Project #24139

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