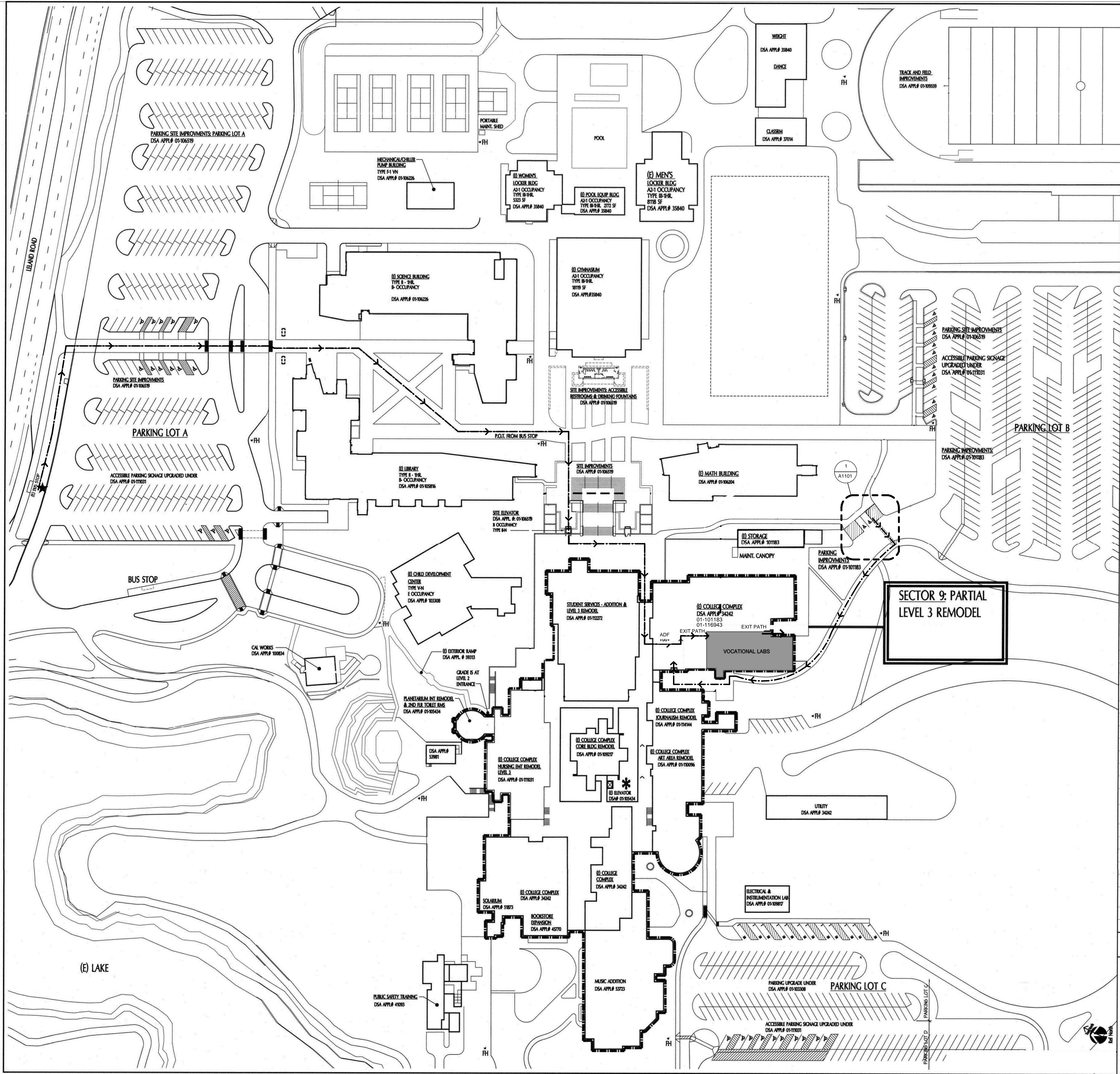


ABBREVIATIONS			SYMBOLS LEGEND		
<div><div><div>A</div><div>- ACCESSIBLE</div></div><div><div>AB</div><div>- ANCHOR BOLT</div></div><div><div>AC</div><div>- ASPHALT CONCRETE</div></div><div><div>ACCU</div><div>- ACOUSTICAL</div></div><div><div>ADD</div><div>- ADDENDUM</div></div><div><div>ADJ</div><div>- ADJUSTABLE or ADJACENT</div></div><div><div>AGG</div><div>- AGGREGATE</div></div><div><div>ALT</div><div>- ALTERNATE</div></div><div><div>ALUM</div><div>- ALUMINUM</div></div><div><div>APP</div><div>- APPROVED</div></div><div><div>APPROX</div><div>- APPROXIMATE</div></div><div><div>ARCH</div><div>- ARCHITECT (URAL)</div></div><div><div>BD</div><div>- BOARD</div></div><div><div>BEL</div><div>- BELOW</div></div><div><div>BLDG</div><div>- BUILDING</div></div><div><div>BLKG</div><div>- BLOCKING</div></div><div><div>BOT</div><div>- BOTTOM</div></div><div><div>BOJ</div><div>- BOTTOM OF JOISTS</div></div><div><div>C</div><div>- CARPET</div></div><div><div>CAB</div><div>- CABINET</div></div><div><div>CB</div><div>- CATCH BASIN</div></div><div><div>CEM</div><div>- CEMENT</div></div><div><div>CF</div><div>- CUBIC FOOT</div></div><div><div>CFL</div><div>- COUNTERFLASHING</div></div><div><div>CHAM</div><div>- CHAMFER</div></div><div><div>CLJ</div><div>- CONTROL JOINT</div></div><div><div>CLG</div><div>- CEILING</div></div><div><div>CLR</div><div>- CLEAR</div></div><div><div>CMU</div><div>- CERAMIC MOSAIC (TILE)</div></div><div><div>CMU</div><div>- CONCRETE MASONRY</div></div><div><div>CT</div><div>- UNIT</div></div><div><div>CO</div><div>- CLEAN OUT</div></div><div><div>COL</div><div>- COLUMN</div></div><div><div>CONC</div><div>- CONCRETE</div></div><div><div>CONT</div><div>- CONTINUOUS or CONTINUE</div></div><div><div>CONST</div><div>- CONSTRUCTION</div></div><div><div>COTF</div><div>- CLEAN OUT THRU FLOOR</div></div><div><div>COTG</div><div>- CLEAN OUT TO GRADE</div></div><div><div>COTW</div><div>- CLEAN OUT THRU WALL</div></div><div><div>CSK</div><div>- COUNTERSINK</div></div><div><div>CSMT</div><div>- CASEMENT</div></div><div><div>CTSK</div><div>- COUNTERSUNK SCREW</div></div><div><div>CW</div><div>- COLD WATER</div></div><div><div>DET</div><div>- DETAIL</div></div><div><div>DF</div><div>- DRINKING FOUNTAIN</div></div><div><div>DIA</div><div>- DIAMETER</div></div><div><div>DIAG</div><div>- DIAGONAL</div></div><div><div>DIM</div><div>- DIMENSION</div></div><div><div>DIV</div><div>- DIVISION</div></div><div><div>DR</div><div>- DOOR</div></div><div><div>DS</div><div>- DOWNSPOUT</div></div><div><div>DWG</div><div>- DRAWING</div></div><div><div>E</div><div>- ENAMEL</div></div><div><div>(E)</div><div>- EXISTING</div></div><div><div>EA</div><div>- EACH</div></div><div><div>EB</div><div>- EXPANSION BOLT</div></div><div><div>EIFS</div><div>- EXTERIOR INSULATION FINISHING SYSTEM</div></div><div><div>EJ</div><div>- EXPANSION JOINT</div></div><div><div>ELEV</div><div>- ELEVATION</div></div><div><div>ELECT</div><div>- ELECTRICAL</div></div><div><div>EMER</div><div>- EMERGENCY</div></div><div><div>ENCL</div><div>- ENCLOSURE (URE)</div></div><div><div>EQ</div><div>- EQUIPMENT</div></div><div><div>EQPT</div><div>- EQUIPMENT</div></div><div><div>EXH</div><div>- EXHAUST</div></div><div><div>EXP</div><div>- EXPOSED</div></div><div><div>EXT</div><div>- EXTERIOR</div></div><div><div>(F)</div><div>- FUTURE</div></div><div><div>FAB</div><div>- FABRICATION</div></div><div><div>FAC</div><div>- FACTORY</div></div><div><div>FBO</div><div>- FURNISHED BY OTHERS</div></div><div><div>FD</div><div>- FLOOR DRAIN</div></div><div><div>FF</div><div>- FINISHED FLOOR</div></div><div><div>FHMS</div><div>- FLAT HEAD MACHINE SCREW</div></div><div><div>FWHS</div><div>- FLAT HEAD WOOD SCREW</div></div><div><div>FIN</div><div>- FINISH</div></div><div><div>FJ</div><div>- FLOOR JOIST</div></div><div><div>FLR</div><div>- FLOOR</div></div><div><div>FLUOR</div><div>- FLUORESCENT</div></div><div><div>FND</div><div>- FOUNDATION</div></div><div><div>FOF</div><div>- FACE OF FINISH</div></div><div><div>FOP</div><div>- FACE OF PLYWOOD</div></div><div><div>FOS</div><div>- FACE OF STUD</div></div><div><div>FR</div><div>- FRAME (D), (ING)</div></div><div><div>FRP</div><div>- FIBERGLASS REINFORCED PLASTIC PANELS</div></div><div><div>FTG</div><div>- FOOTING</div></div><div><div>FURR</div><div>- FIRRED (ING)</div></div><div><div>GA</div><div>- GAUGE</div></div><div><div>GB</div><div>- GYPSUM BOARD</div></div><div><div>GI</div><div>- GALVANIZED IRON</div></div><div><div>GKT</div><div>- GASKET (ED)</div></div><div><div>GL</div><div>- GLASS or GLAZING</div></div><div><div>GLV</div><div>- GALVANIZED</div></div><div><div>GSM</div><div>- GALVANIZED SHEET METAL</div></div><div><div>GYP</div><div>- GYPSUM</div></div><div><div>HB</div><div>- HOSE BIBB</div></div><div><div>HDW</div><div>- HARDWOOD</div></div><div><div>HEX</div><div>- HEXAGONAL</div></div><div><div>HM</div><div>- HOLLOW METAL</div></div><div><div>(STEEL)</div><div>- HORIZONTAL</div></div><div><div>HT</div><div>- HEIGHT</div></div><div><div>HVAC</div><div>- HEATING VENTILATING AIR CONDITIONING</div></div><div><div>HW</div><div>- HOT WATER</div></div><div><div>ID</div><div>- INSIDE DIAMETER</div></div><div><div>INCL</div><div>- INCLUDE (D), (ING)</div></div><div><div>INSTR</div><div>- INSTRUCTION (S)</div></div><div><div>INSUL</div><div>- INSULATE (D), (ION)</div></div><div><div>INT</div><div>- INTERIOR</div></div><div><div>INV</div><div>- INVERT</div></div><div><div>JST</div><div>- JOIST</div></div><div><div>JT</div><div>- JOINT</div></div><div><div>LAM</div><div>- LAMINATE (D)</div></div><div><div>LAV</div><div>- LAVATORY</div></div><div><div>LB</div><div>- LAG BOLT</div></div><div><div>LVR</div><div>- LOUVER</div></div><div><div>LCP</div><div>- LAY-IN CEILING PANEL</div></div><div><div>MAS</div><div>- MASONRY</div></div><div><div>MATL</div><div>- MATERIAL</div></div><div><div>MAX</div><div>- MAXIMUM</div></div><div><div>MB</div><div>- MACHINE BOLT</div></div></div> <div><div><div>- MECHANICAL</div><div>- MEDIUM</div><div>- MANUFACTURING</div><div>- MANUFACTURER</div><div>- MINIMUM</div><div>- MIRROR</div><div>- MISCELLANEOUS</div><div>- MODULAR</div><div>- MOUNT (ED), (ING)</div><div>- METAL</div><div>- MULLION</div><div>- NEW</div><div>- NOT IN CONTRACT</div><div>- NO</div><div>- NOMINAL</div><div>- NOMINAL PIPE SIZE</div><div>- NOT TO SCALE</div><div>- OVER</div><div>- ON CENTER</div><div>- OUTSIDE DIAMETER</div><div>- OVERFLOW DRAIN</div><div>- OWNER FURNISHED, CONTRACTOR INSTALLED</div><div>- OWNER FURNISHED, OWNER INSTALLED</div><div>- OPPOSITE</div><div>- OPTIONAL</div><div>- POWDER ACTUATED FASTENER</div><div>- PERIMETER</div><div>- PERFORATED</div><div>- PROPERTY LINE</div><div>- PLASTIC LAMINATE</div><div>- PLASTER</div><div>- PLATE</div><div>- PLYWOOD</div><div>- PANEL</div><div>- POINT OF CONNECTION</div><div>- POINT</div><div>- PRESERVATIVE TREATED DOUGLAS FIR</div><div>- PARTITION</div><div>- PARALLEL STRAND LUMBER</div><div>- POLYVINYL CHLORIDE</div><div>- RISER</div><div>- RELATIVE COMPACTION</div><div>- ROOF DRAIN</div><div>- REFERENCE</div><div>- REFRIGERATOR</div><div>- REMOVE</div><div>- REQUIRED</div><div>- RESILIENT</div><div>- REVISION</div><div>- REFLECT</div><div>- ROUND HEAD WOOD SCREW</div><div>- REDWOOD</div><div>- RAIN WATER LEADER</div><div>- SCHEDULE</div><div>- STORM DRAIN</div><div>- SECTION</div><div>- SEE ELECTRICAL DRAWINGS</div><div>- SQUARE FEET</div><div>- SHELF</div><div>- SHELVING</div><div>- SHEET</div><div>- SHEATHING</div><div>- SIMILAR</div><div>- SEE LANDSCAPE DRAWINGS</div><div>- SEE MECHANICAL DRAWINGS</div><div>- SPECIFICATIONS</div><div>- SQUARE</div><div>- STAINLESS STEEL</div><div>- SEE STRUCTURAL DRAWINGS</div><div>- STANDARD</div><div>- STEEL</div><div>- SELF TAPPING SHEET METAL SCREW</div><div>- TREAD</div><div>- TOP AND BOTTOM</div><div>- TELEPHONE</div><div>- TEMPERED</div><div>- TONGUE-AND-GROOVE</div><div>- THROUGH</div><div>- TOOL JOINT</div><div>- TOP OF CURB,</div><div>- or CONCRETE</div><div>- TOP OF PARAPET</div><div>- TOP OF SLAB,</div><div>- SHEATHING, or STEEL</div><div>- TOILET PARTITION</div><div>- TOP OF SHEATHING</div><div>- TOP SET BASE</div><div>- TELEVISION</div><div>- TYPICAL</div><div>- TACKABLE WALL SYSTEM</div><div>- UNLESS OTHERWISE NOTED</div><div>- VARIES</div><div>- VAPOR BARRIER</div><div>- VINYL COMPOSITION TILE</div><div>- VINYL COVERED TACKBOARD</div><div>- VERTICAL</div><div>- VERIFY</div><div>- VERTICAL GRAIN</div><div>- VERIFY IN FIELD</div><div>- VENT OVER or OFFSET</div><div>- VENT RISER</div><div>- VENT THROUGH ROOF</div><div>- VINYL WALL COVERING</div><div>- WITH</div><div>- WOOD</div><div>- WIDE FLANGE</div><div>- WOODWORK INSTITUTE</div><div>- WINDOW</div><div>- WITH OUT</div><div>- WHERE OCCURS</div><div>- WOOD SCREW</div><div>- WAINSCOT</div><div>- AT</div><div>- DIAMETER</div><div>- PLUS/MINUS</div><div>- DEGREES</div><div>- CENTER LINE</div></div></div>			<div><div>CONTRA COSTA COMMUNITY COLLEGE DISTRICT</div><div>L-1177 Industrial Trades Labs Renovation</div><div>2700 EAST LELAND ROAD</div><div>PITTSBURG, CA 94565</div></div>		
<div>DSA FILE NO.:7-C1</div> <div>DSA APP NO.:01-113866</div>			<div>SYMBOLS LEGEND</div> <div><div><div>ROOM NAME</div><div>ROOM NUMBER</div><div>101</div><div>ROOM AREA</div><div>S.F.</div><div>DEMOLITION SCHEDULE TAG</div><div>ROOM NUMBER</div><div>101</div><div>ROOM NAME</div><div>101</div><div>CEILING</div><div>WALL</div><div>FLOOR/BASE</div></div><div>SCHEDULE INDICATES DEMOLITION REQUIREMENTS. REFER TO DEMOLITION SCHEDULE AND BUILDING DEMOLITION PLANS</div></div> <div><div><div>2</div><div>A7.11</div><div>EXTERIOR ELEVATION REFERENCE</div></div><div><div>2</div><div>A7.11</div><div>SECTION NUMBER</div><div>SHEET NUMBER</div></div></div> <div><div><div>2</div><div>A10.90</div><div>DETAIL NUMBER</div><div>SHEET NUMBER</div></div></div> <div><div><div>101-1</div><div>A9.10</div><div>INTERIOR ELEVATION NUMBER</div><div>CLOCKWISE SEQUENCE</div></div><div><div>101-3</div><div>A9.10</div><div>SHEET NUMBER</div></div><div><div>101-5</div><div>A9.10</div><div>AUXILIARY INTERIOR ELEVATION NUMBER</div><div>SHEET NUMBER</div></div></div> <div><div><div>101A</div><div>DOOR NUMBER</div></div><div><div>101H</div><div>WINDOW NUMBER</div></div></div> <div><div><div>A</div><div>WALL TYPE</div></div></div> <div><div><div>10</div><div>ACCESSORY TAG</div></div></div> <div><div><div>8'-0"</div><div>CEILING HEIGHT TAG</div></div></div> <div><div><div>101</div><div>KEYNOTE REFERENCE OR COLOR DESIGNATION</div></div><div><div>WID</div><div>HT</div><div>CABINET WIDTH</div><div>CABINET HEIGHT</div><div>XX</div><div>D</div><div>CABINET DESIGNATION</div><div>CABINET DEPTH</div></div></div> <div>GENERAL NOTES</div> <div>1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS (TITLE DOCUMENTS) AND ALL OTHER LOCAL CODES AND ORDINANCES OF THE GOVERNING AUTHORITY HAVING JURISDICTION AND AS IDENTIFIED UNDER APPLICABLE CODES ON THIS SHEET. IT IS THE INTENT OF THESE DOCUMENTS TO COMPLY HERETO.</div> <div>2. ALL DRAWINGS SHALL BE USED IN CONCERT WITH EACH OTHER. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE DOCUMENTS, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT. REFER TO THE ARCHITECTURAL AND ENGINEERING DRAWINGS FOR PLACEMENT, ORIENTATION AND COORDINATION OF WORK. INFORMATION SHOWN IN LARGER SCALE IS INTENDED TO SUPPLEMENT INFORMATION OF SMALLER, PRECEDING REFERENCE DRAWINGS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.</div> <div>3. NOTATIONS MARKED "TYPICAL" (TYP.) SHALL BE CONSISTENT THROUGHOUT ALL SUCH REFERENCE NOMENCLATURE, SYMBOLS AND DRAWING INDICATIONS OF LIKE OR SIMILAR KIND.</div> <div>4. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY ASSOCIATED WORK. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ASSOCIATED WORK.</div> <div>5. CONTRACTOR SHALL VERIFY, AT THE SITE, ALL EXISTING CONDITIONS PRIOR TO SUBMITTAL OF BIDS. SITE VISITS DURING BIDDING SHALL BE COORDINATED WITH THE OWNER IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATIONS.</div> <div>6. CONTRACTOR SHALL PROTECT ALL EXISTING WORK. ANY DAMAGED WORK SHALL BE REPLACED WITH THE SAME MATERIALS, INCLUDING MATCHING THE EXISTING COLORS AND TEXTURES.</div> <div>7. EXISTING WORK IS SHOWN FOR REFERENCE ONLY. THE OWNER AND/OR ARCHITECT DO NOT GUARANTEE EXISTING CONDITIONS AS SHOWN ON THESE DOCUMENTS.</div> <div>8. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THEIR OWN CLEANUP AS WORK PROGRESSES.</div> <div>9. MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS THAT ARE DISCOVERED DURING THE PROGRESS OF THE WORK SHALL BE REPORTED TO THE OWNER IN WRITING. WORK IN THAT PARTICULAR AREA SHALL BE SUSPENDED UNTIL THE OWNER TESTS THE SUSPECT MATERIAL AND IT IS FOUND TO BE SAFE, OR THE MATERIAL HAS BEEN PROPERLY ABATED.</div> <div>10. ALL WORK IS NEW UNLESS OTHERWISE NOTED.</div> <div>11. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.</div> <div>12. STORAGE OF CONSTRUCTION MATERIAL AND EFFECT OF WORK ON EXISTING OCCUPIED AREAS SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY.</div> <div>13. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.</div> <div>14. KEYNOTES USED ON THE ARCHITECTURAL DRAWINGS ARE FOR ASSEMBLIES, MATERIAL REFERENCES AND NOTES. REFER TO THE KEYNOTE LIST ON THE RESPECTIVE DRAWING FOR THE INFORMATION WHICH RELATES TO EACH KEYNOTE.</div> <div>15. DURING CONSTRUCTION, COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED.</div> <div>16. DURING CONSTRUCTION, COMPLIANCE WITH CBC CHAPTER 33, SAFETY WILL BE ENFORCED.</div> <div>17. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL.</div> <div>18. SUBSTITUTIONS AFFECTING DSA REGULATIONS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA AND APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.</div>		
<div>SHEET INDEX</div> <div><div>GENERAL</div><div>ELECTRICAL **</div><div>FIRE ALARM **</div><div>PLUMBING **</div><div>MECHANICAL **</div></div> <div><div>G0001 COVER SHEET</div><div>Grand total: 1</div><div>E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX</div><div>E0.2 CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR</div><div>E1.1 ELECTRICAL SINGLE LINE DIAGRAM & PANELBOARD SCHEDULES</div><div>E2.1 ELECTRICAL SITE PLAN</div><div>E3.1 ELECTRICAL DEMOLITION PLAN</div><div>E4.1 POWER PLAN</div><div>E5.1 LIGHTING PLAN & LIGHT FIXTURE SCHEDULE</div><div>E6.1 ELECTRICAL DETAILS</div><div>E6.2 ELECTRICAL DETAILS</div><div>Grand total: 9</div><div>FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES</div><div>FA1.1 FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP, CALCULATIONS</div><div>FA2.1 ELECTRICAL SITE PLAN</div><div>FA4.1 FIRE ALARM PLAN</div><div>Grand total: 4</div><div>Overall Total: 31</div><div>M0001 MECHANICAL LEGENDS & NOTES</div><div>M2010 MECHANICAL DEMOLITION PLAN</div><div>M2310 MECHANICAL FLOOR PLAN</div><div>M5001 MECHANICAL DETAILS</div><div>Grand total: 4</div><div>P0001 PLUMBING LEGENDS, SCHEDULES, NOTES & DETAILS</div><div>P0002 PLUMBING FIXTURE SCHEDULES</div><div>P2010 PLUMBING DEMOLITION PLAN</div><div>P2310 PLUMBING FLOOR PLAN</div><div>Grand total: 4</div></div>			<div>STATEMENT OF GENERAL CONFORMANCE</div> <div>FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS</div> <div><input checked="" type="checkbox"/> The drawings or sheets listed on the cover or sheet index indicated with ** <input type="checkbox"/> This drawing, page of specifications/ calculations</div> <div>have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:</div> <div>1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and 2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.</div> <div>The Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (a)).</div> <div>I certify that: <input checked="" type="checkbox"/> All drawings or sheets listed on the cover or index sheet indicated with ** <input type="checkbox"/> This drawing or page</div> <div><div>Sharon A. Russo</div><div>Signature</div><div>2020-7-8</div><div>Date</div></div> <div>Architect or Engineer designated to be in general responsible charge</div> <div><div>SHARON A. RUSSO, AIA</div><div>Print Name Architect</div><div>C-27346</div><div>License Number</div><div>09/21</div><div>Expiration Date</div></div>		
<div>CONSULTANTS</div>			<div>SEAL</div>		
<div>PRIME CONSULTANT</div> <div><div>IBI GROUP</div><div>333 W. San Carlos St., Suite 600</div><div>San Jose, CA 95110 USA</div><div>tel 408 924 0811 fax 408 924 0844</div><div>ibi@ibigroup.com</div></div> <div>PROJECT</div> <div>L-1177 Industrial Trades Labs Renovation</div> <div>2700 EAST LELAND ROAD</div> <div>PITTSBURG, CA 94565</div> <div>PROJECT NO:</div> <div>121030</div> <div>DRAWN BY:</div> <div>AJ</div> <div>CHECKED BY:</div> <div>RH</div> <div>PROJECT MGR:</div> <div>RH</div> <div>APPROVED BY:</div> <div>SG</div> <div>SHEET TITLE</div> <div>COVER SHEET</div> <div>SHEET NUMBER</div> <div>G0001</div> <div>ISSUE</div>					

2020-07-08 2:43:32 PM

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1 of 1



SYMBOL LEGEND

- ASSUMED PROPERTY LINE
- FIRE DEPARTMENT ACCESS, WIDTH 20'-0"
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N.
- ORNAMENTAL FENCE
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE. EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES. BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 11338.8.6 THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING ENTRANCE
- AREA OF MODERNIZATION TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- EXISTING ACCESSIBLE DRINKING FOUNTAIN PER 01-111835

PARKING DATA

PARKING LOT A:	320
VAN ACCESSIBLE STALLS	3
STANDARD ACCESSIBLE STALLS	11
STANDARD STALLS	306
PARKING LOT B:	441
VAN ACCESSIBLE STALLS	4
STANDARD ACCESSIBLE STALLS	9
STANDARD STALLS	429
PARKING LOT C:	115
VAN ACCESSIBLE STALLS	4
STANDARD ACCESSIBLE STALLS	8
STANDARD STALLS	103
PARKING LOT D:	281
VAN ACCESSIBLE STALLS	3
STANDARD ACCESSIBLE STALLS	7
STANDARD STALLS	271

BUILDING CODE ANALYSIS

SUMMARY:
A PARTIAL THIRD FLOOR RENOVATION OF THE EXISTING COLLEGE COMPLEX. AREA OF WORK IS ON GRADE.

THERE IS NO CHANGE IN USE OR OCCUPANCY

USE & OCCUPANCY:
EDUCATIONAL GROUP B,

CONSTRUCTION TYPE:
TYPE I, FIRE RESISTIVE
NOT SPRINKLERED

FLOOR AREA OF EXISTING BUILDING:
178,626 SF

FLOOR AREA OF EXISTING BUILDING RECEIVING WORK:
3,538 SF

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-118866 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/09/2020

CLIENT
CONTRA COSTA
COMMUNITY COLLEGE
DISTRICT

500 COURT STREET MARTINEZ, CA

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ISSUES
No. DESCRIPTION DATE

CONSULTANTS

SEAL

SEAL
No. C27345
REN. 2/21

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PROJECT
L-1177 Industrial Trades Labs
Renovation

2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:
121030
DRAWN BY:
AJ
CHECKED BY:
RH
PROJECT MGR:
RH
APPROVED BY:
SG
SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A1100
ISSUE

DSA STAMP

IDENTIFICATION STAMP

IDENTIFICATION STAMP

ACT

DIV. OF THE STATE ARCHITECT

APP: 01-118866 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 07/09/2020

CLIENT

CONTRA COSTA
COMMUNITY COLLEGE
DISTRICT

500 COURT STREET MARTINEZ, CA

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ISSUES

No.	DESCRIPTION	DATE
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CONSULTANTS

SEAL

LICENSED ARCHITECT

Michael A. Riddle

No. C27345

REN. 2/21

STATE OF CALIFORNIA

PRIME CONSULTANT

IBI

IBI GROUP

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PROJECT

L-1177 Industrial Trades Labs
Renovation

2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:

121030

DRAWN BY:

AJ

CHECKED BY:

RH

PROJECT MGR:

RH

APPROVED BY:

SG

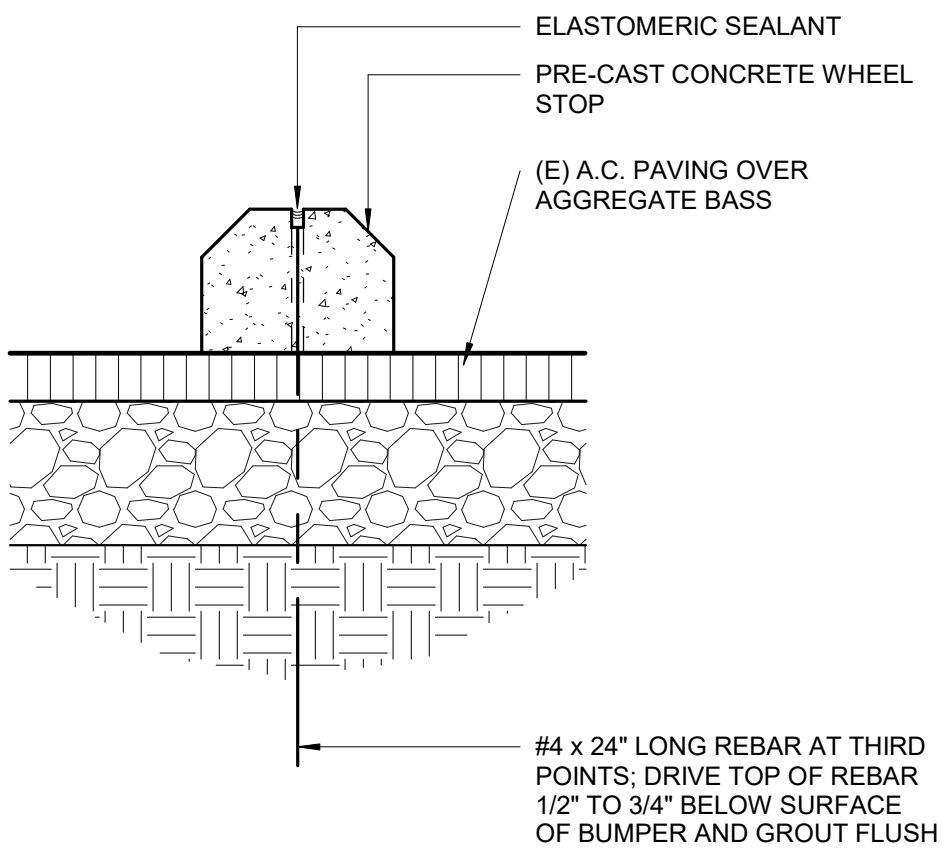
SHEET TITLE

ACCESSIBLE ELEMENTS

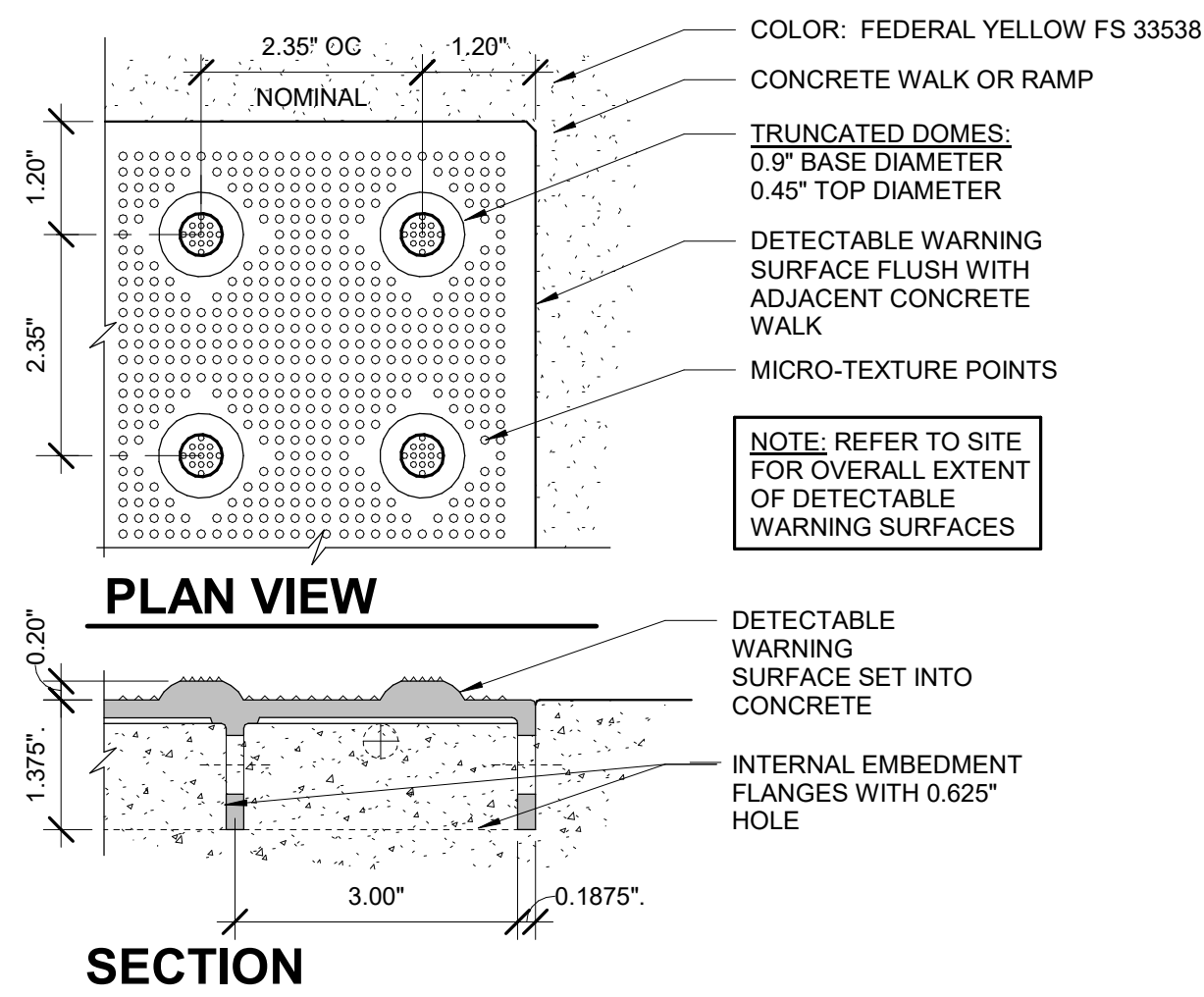
SHEET NUMBER

A1101

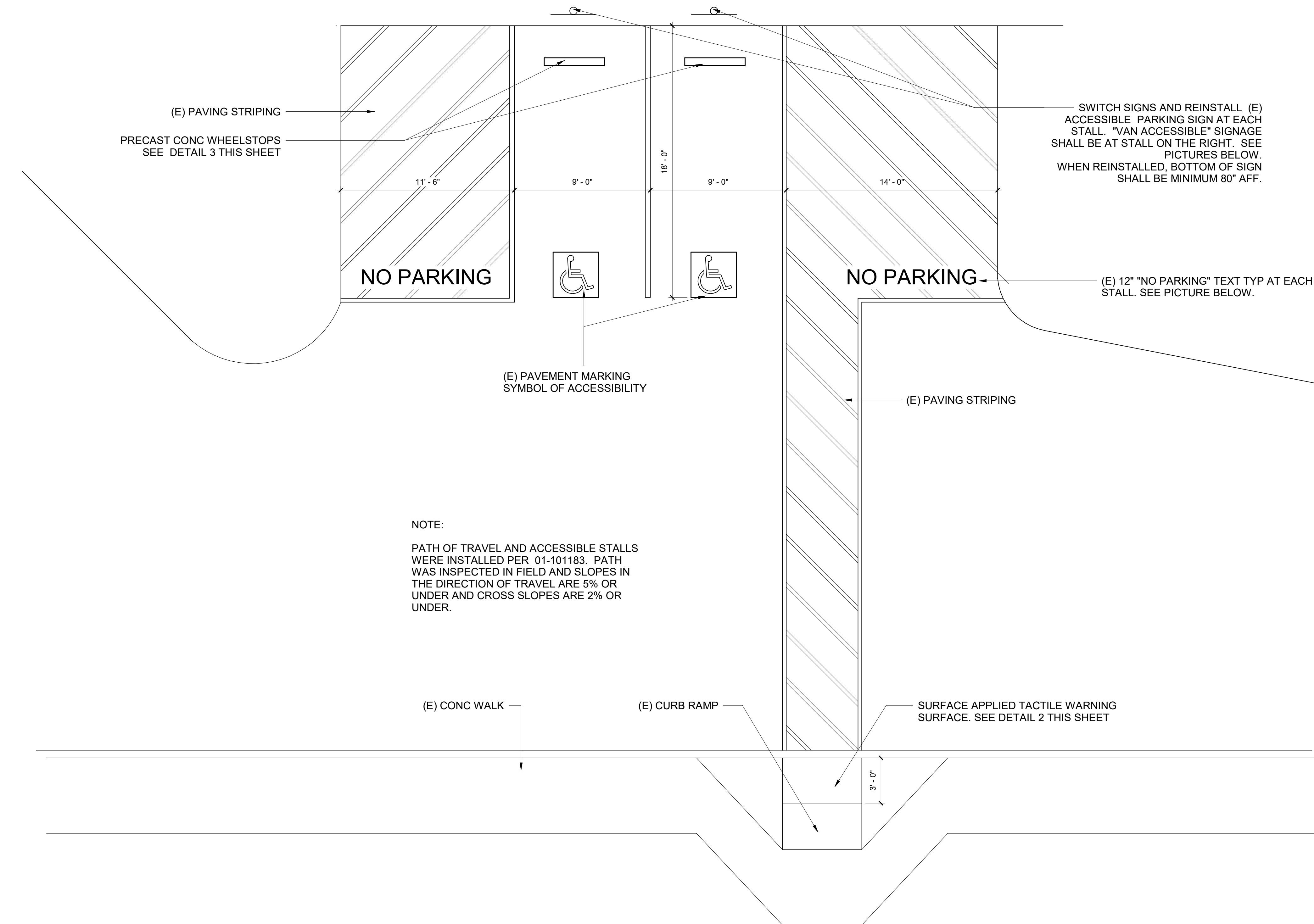
ISSUE



3 WHEELSTOP



2 TRUNCATED DOMES



1 ACCESSIBLE PARKING



EXISTING CURB RAMP



EXISTING STRIPING

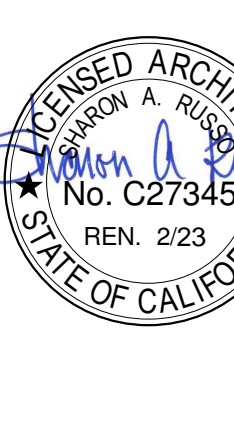



EXISTING ACCESSIBLE PARKING SIGNAGE
SWITCH SIGNS ON POSTS

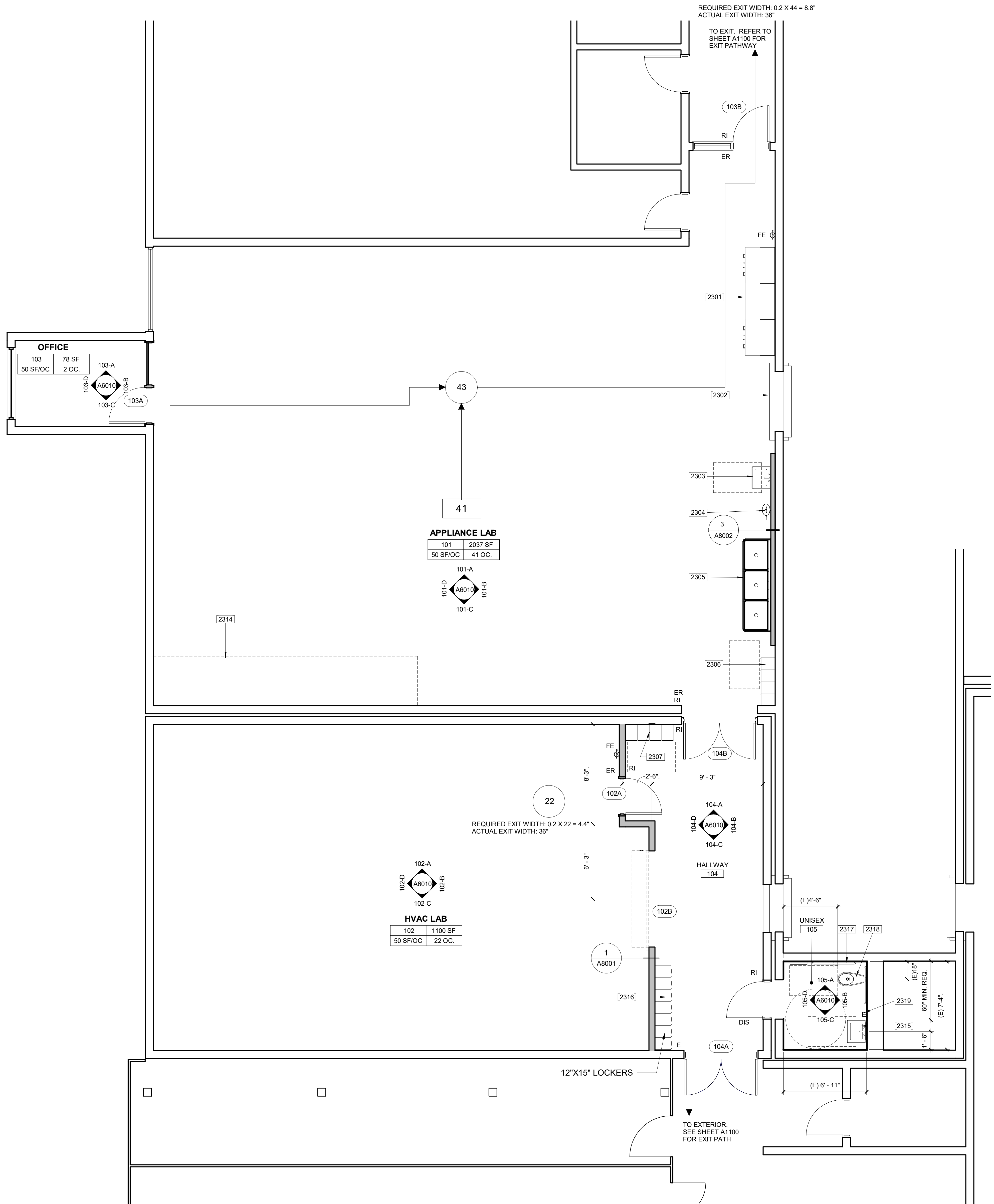


- ## 2000 - KEYNOTES DEMO
- | | |
|------|---|
| 2011 | EXISTING EXPOSED DUCTWORK TO REMAIN (SHOWN DASHED) |
| 2012 | REMOVE SLIDING GLASS DOOR AND FRAME |
| 2014 | REMOVE OVERHEAD SUSPENDED FRAME AND ASSOCIATED ELECTRICAL CONDUIT, PLUMBING PIPING, J-BOXES, AND FITTINGS |
| 2015 | REMOVE DOOR(S) - FRAME TO REMAIN |
| 2016 | EXISTING EXHAUST HOOD TO REMAIN (SHOWN DASHED) |
| 2017 | SALVAGE HARDWARE FOR RE-USE |
| 2019 | REMOVE EXISTING REFRIGERATOR/FREEZER STRUCTURES IN THEIR ENTIRETY |
| 2020 | REMOVE PROJECTION SCREEN SUSPENDED FROM CEILING |
| 2021 | REMOVE DOORS AND FRAME |
| 2315 | LAVATORY TO BE REMOVED. PREPARE FOR REPLACEMENT. PREP AND CLEAN ALL WALL SURFACES. EXISTING MIRROR TO BE REMOVED AND STORED FOR RE-INSTALLATION |

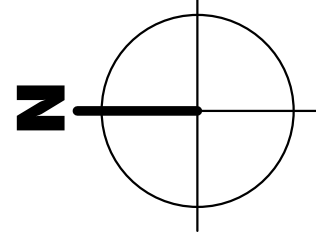
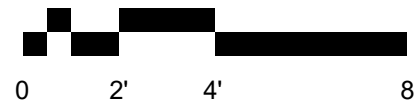
[illegible]

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CONTRA COSTA COMMUNITY COLLEGE DISTRICT		
500 COURT STREET MARTINEZ, CA		
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ISSUES		
No.	DESCRIPTION	DATE
CONSULTANTS		
SEAL		
		
PRIME CONSULTANT		
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PROJECT L-1177 Industrial Trades Labs Renovation		
2700 EAST LELAND ROAD PITTSBURG, CA 94565		
PROJECT NO: 121030		
DRAWN BY: Author		CHECKED BY: Checker
PROJECT MGR: ARCHITECTURAL		APPROVED BY: Approver
SHEET TITLE DEMOLITION PLAN		
SHEET NUMBER AD1-A2010		ISSUE

1 FLOOR PLAN AND CODE ANALYSIS PLAN



NOTE:
EXISTING WALLS ARE 8" CONCRETE
WALLS. ALL TO REMAIN.



2300-GENERAL NOTES

- REFER TO DEMOLITION PLAN, A2010 FOR EXISTING CONSTRUCTION TO BE REMOVED.
- REFER TO SHEET A9101 FOR FINISH SCHEDULE.
- REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
- REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
- WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
- PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.

2300- KEYNOTES

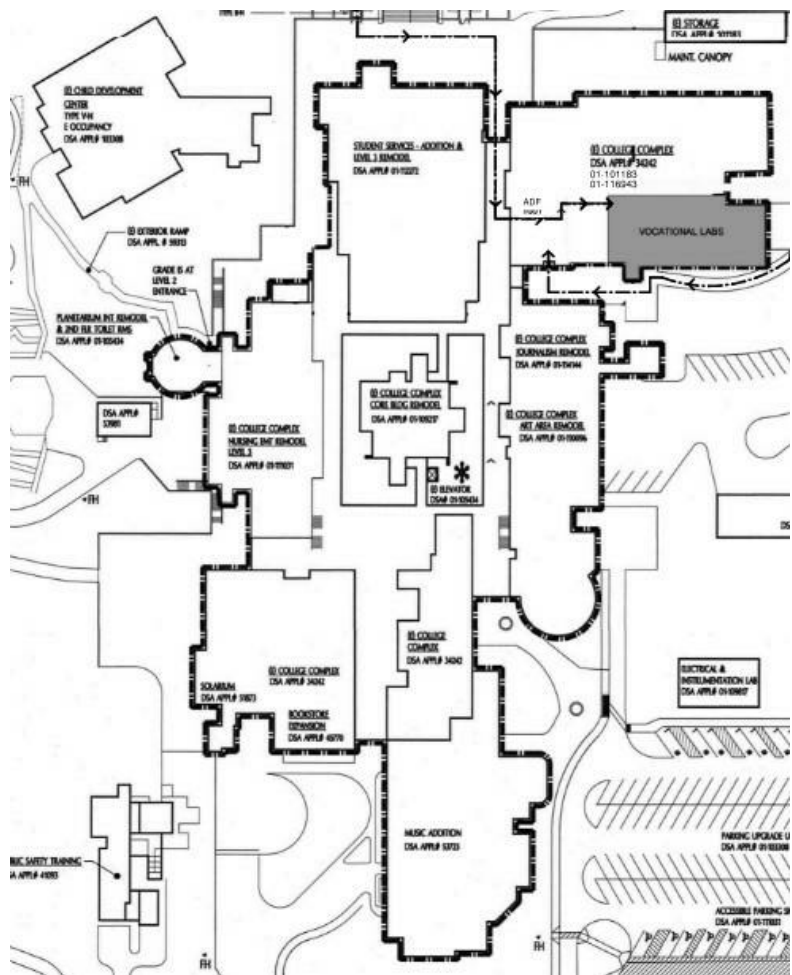
- 2301 CABINET
2302 (E) SERVICE WINDOW.
2303 SINK
2304 EYE WASH
2305 MULTISTATION WASHUP SINK - S.P.D.
2306 MTL. LOCKERS (15" DEEP)
2307 MTL. LOCKER (12" DEEP)
2314 DASHED LINE INDICATES EXHAUST HOOD ABOVE
2315 CUSTOM LAVATORY, SIZE TO PROVIDE 60 INCHES FROM SIDE WALL
2316 EXISTING METAL LOCKER TO BE SALVAGE, STORED, AND REINSTALLED
2317 (E) GRAB BAR TO REMAIN
2318 (E) FIXTURE TO REMAIN
2319 (E) ACCESSORY TO REMAIN

LEGEND

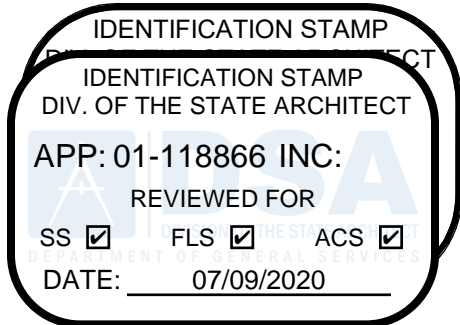
NOTE: ALL SYMBOLS AND PATTERNS MAY NOT NECESSARILY OCCUR ON THIS SHEET.

- (E) WALL TO REMAIN
- METAL STUD WALL /FURRED WALL
- 60" DIA. ACCESSIBLE FLOOR SPACE LOCATION
- 30" X 48" ACCESSIBLE FLOOR SPACE LOCATION
- 60" X 60" ACCESSIBLE FLOOR SPACE LOCATION
- RI ROOM IDENTIFICATION SIGN
DIS DOOR IDENTIFICATION SIGN
E EXIT SIGN
ER EXIT ROUTE
FE FIRE EXTINGUISHER

KEY PLAN



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SEAL



PRIME CONSULTANT



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Renovation

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Author

CHECKED BY:
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ARCHITECTURAL

APPROVED BY:
Approver

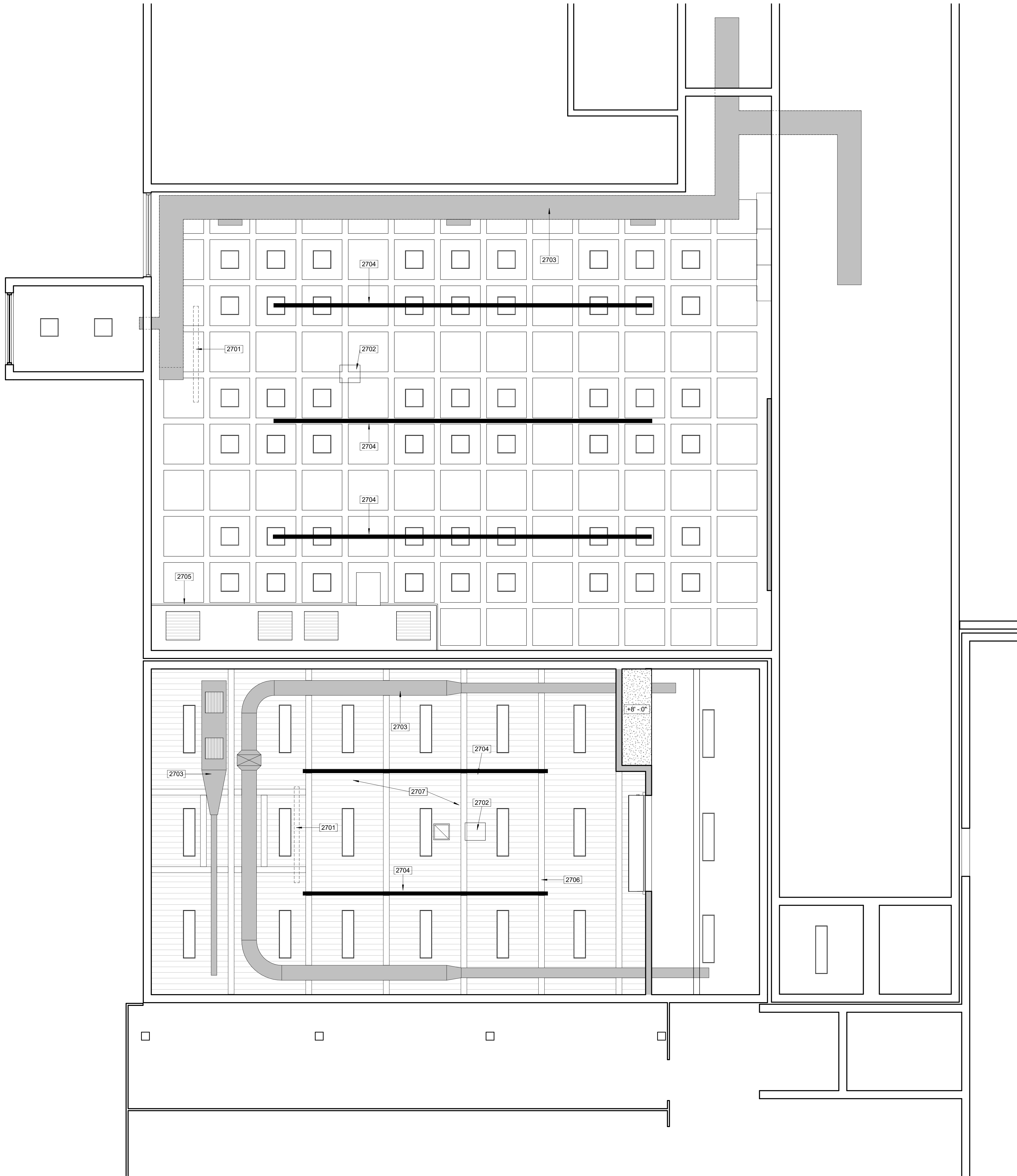
SHEET TITLE

FLOOR PLAN AND CODE
ANALYSIS PLAN

SHEET NUMBER

A2310

ISSUE



1 FIRST FLOOR REFLECTED CEILING PLAN

2700-GENERAL NOTES

1. MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN ON THIS PLAN FOR PLACEMENT PURPOSES, ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILED INFORMATION AND ADDITIONAL ITEMS NOT SHOWN ON THIS PLAN.

2700 - KEYNOTES

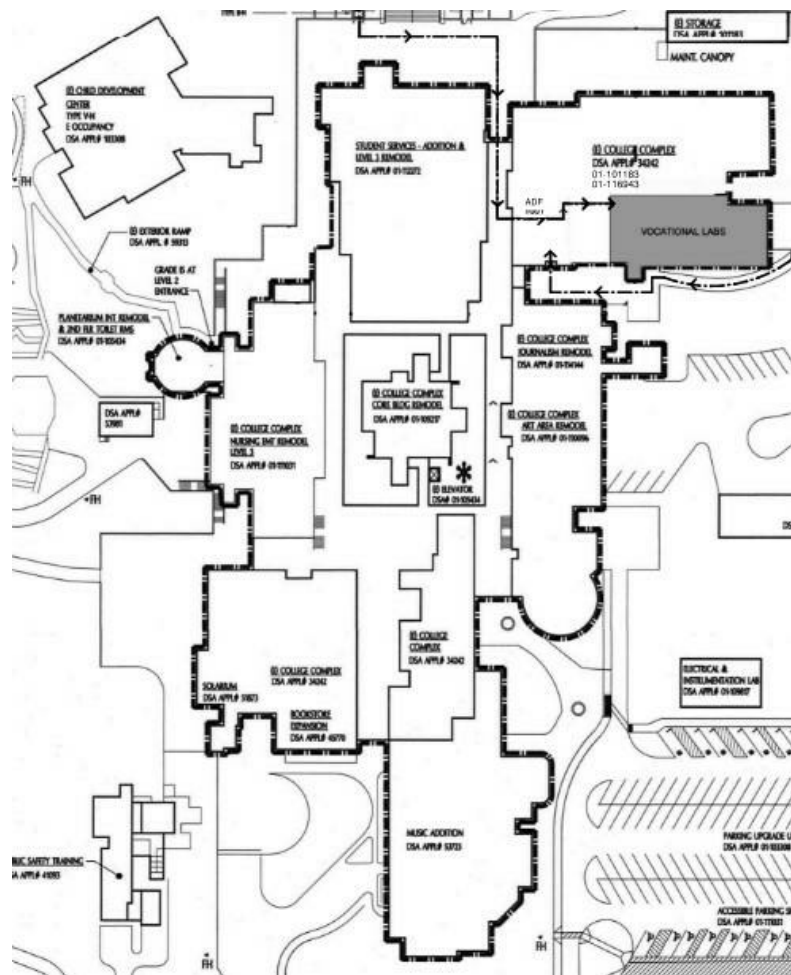
- 2701 CEILING SUSPENDED PROJECTION SCREEN. SEE DETAIL 8/A8001
2702 CEILING MOUNTED PROJECTOR. SEE 9/A8001
2703 EXISTING EXPOSED DUCTWORK. PREP AND PAINT IN ITS ENTIRETY
2704 SUSPENDED ELECTRICAL SYSTEM AND SUPPORTS. SEE 7/A8001
2705 EXISTING EXHAUST HOOD. PREP AND PAINT IN ITS ENTIRETY
2706 EXISTING STRUCTURAL FRAMING, EXPOSED
2707 EXISTING EXPOSED FIRE PROTECTED DECK. PREP, PRIME AND PAINT

LEGEND

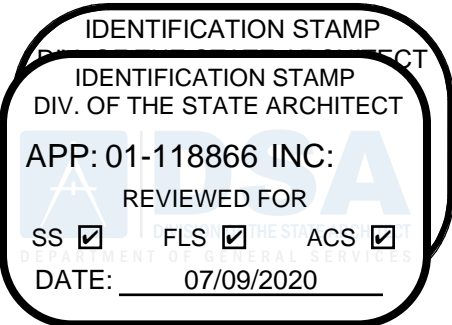
NOTE:
REFER TO DETAIL 1/A8301 FOR SUSPENDED ACOUSTICAL CEILING SYSTEM LEGEND

- (E) CEILING FINISH TO REMAIN
(E) EXPOSED WAFFLE SLAB STRUCTURE
(E) EXPOSED ROOF STRUCTURE, PAINT
GYP BD, PAINT
AIR TERMINAL. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
EXIT LIGHT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

KEY PLAN



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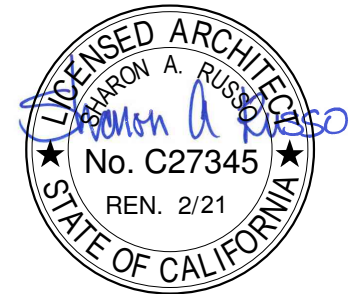
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Renovation**

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PITTSBURG, CA 94565

PROJECT NO:

121030

DRAWN BY:

Author

CHECKED BY:

Checker

PROJECT MGR:

ARCHITECTURAL

APPROVED BY:

Approver

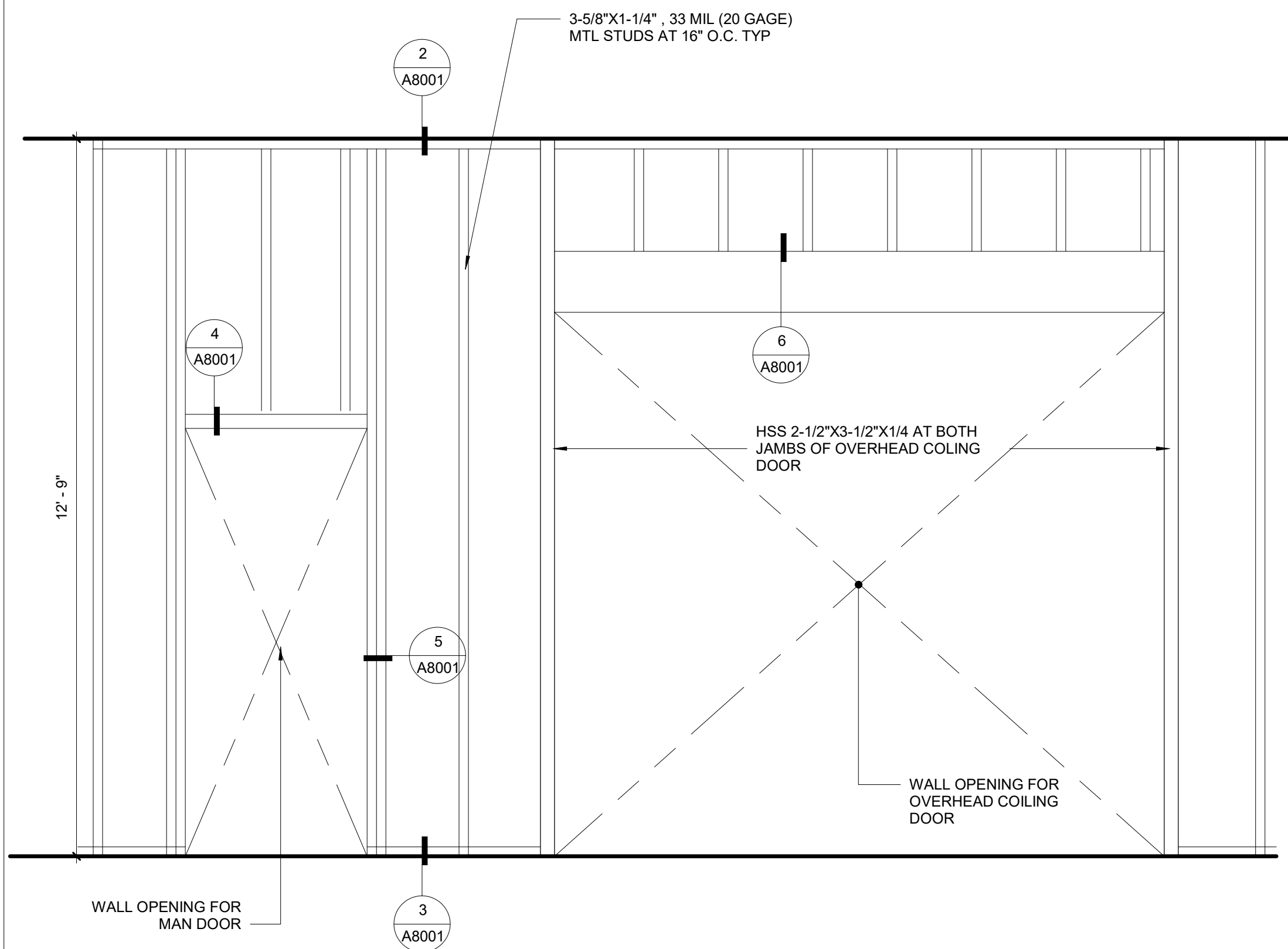
SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER

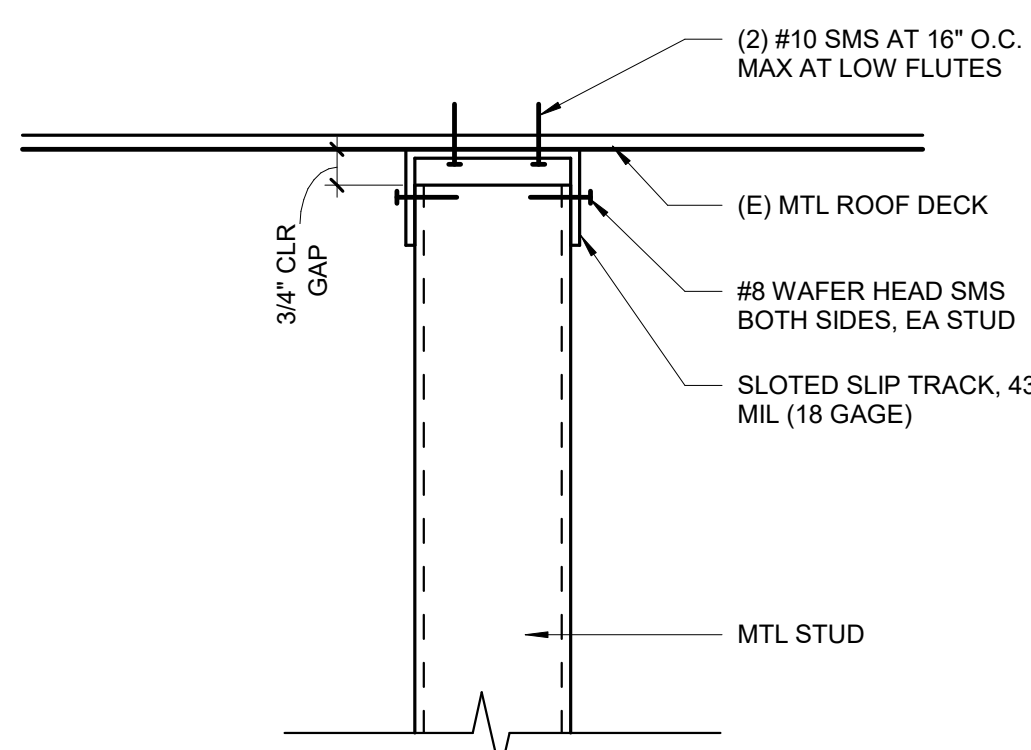
A2710

ISSUE



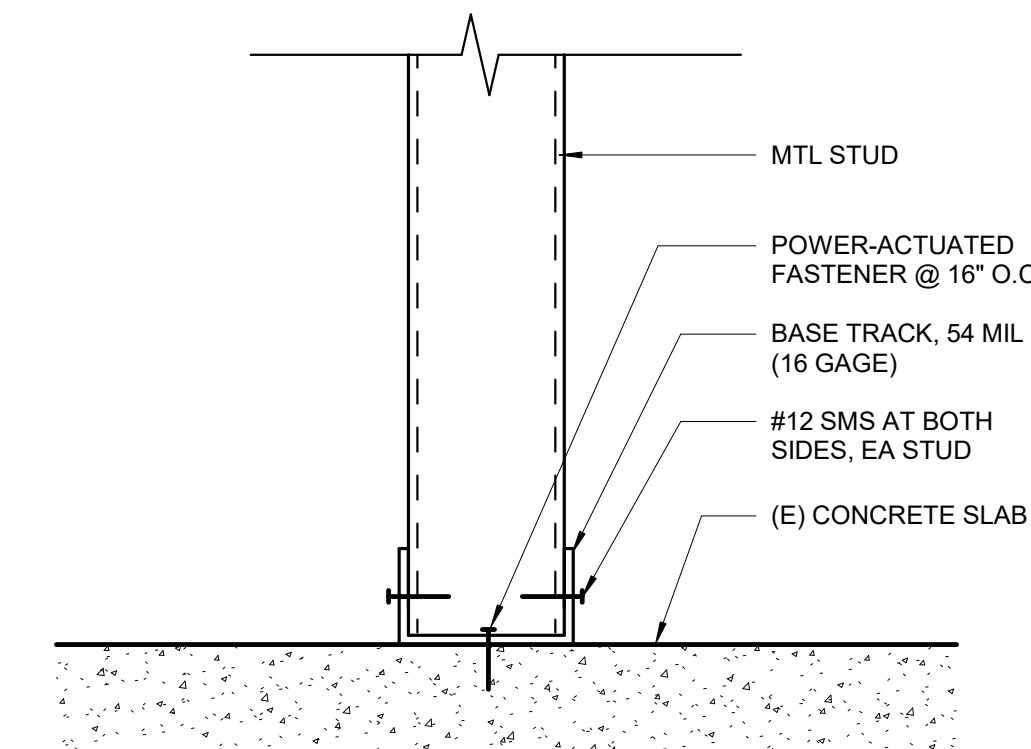
1 INTERIOR PARTITION FRAMING ELEVATION

1/2" = 1'-0"



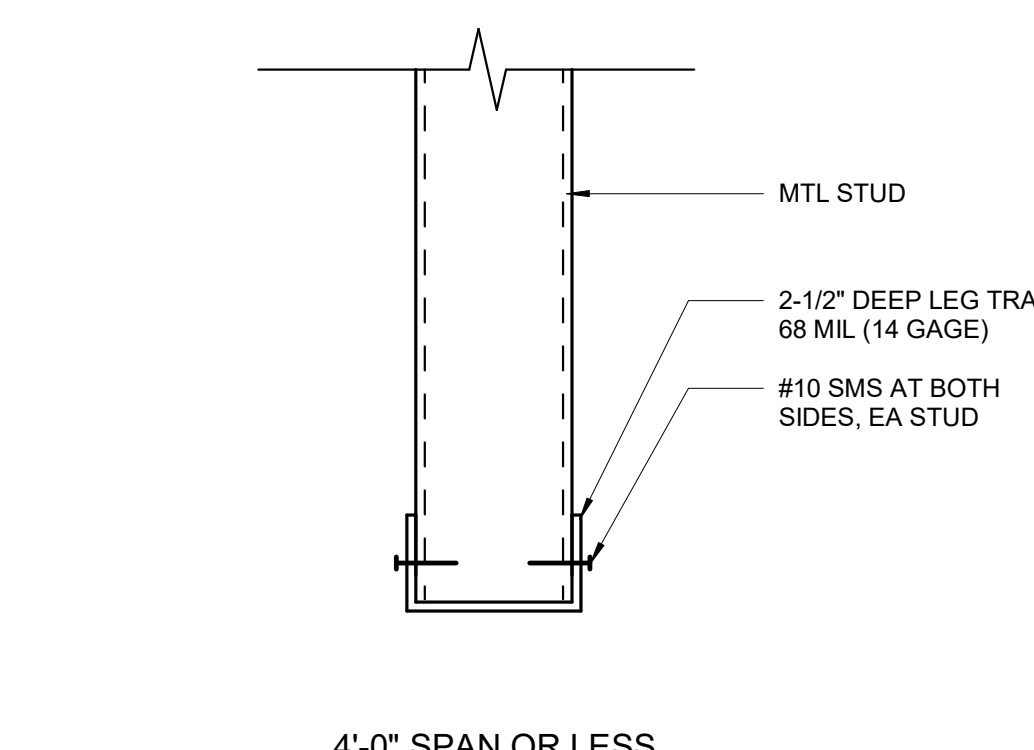
2 TOP TRACK

3" = 1'-0"



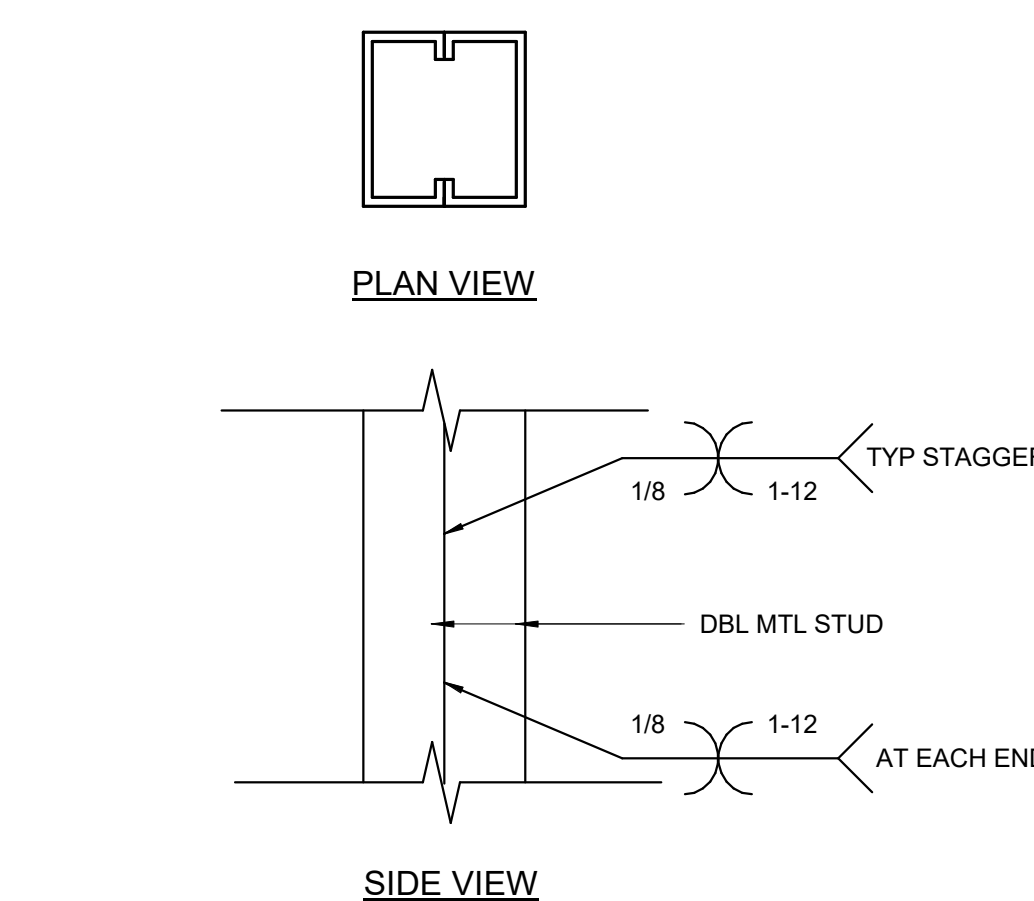
3 BTTM TRACK

3" = 1'-0"



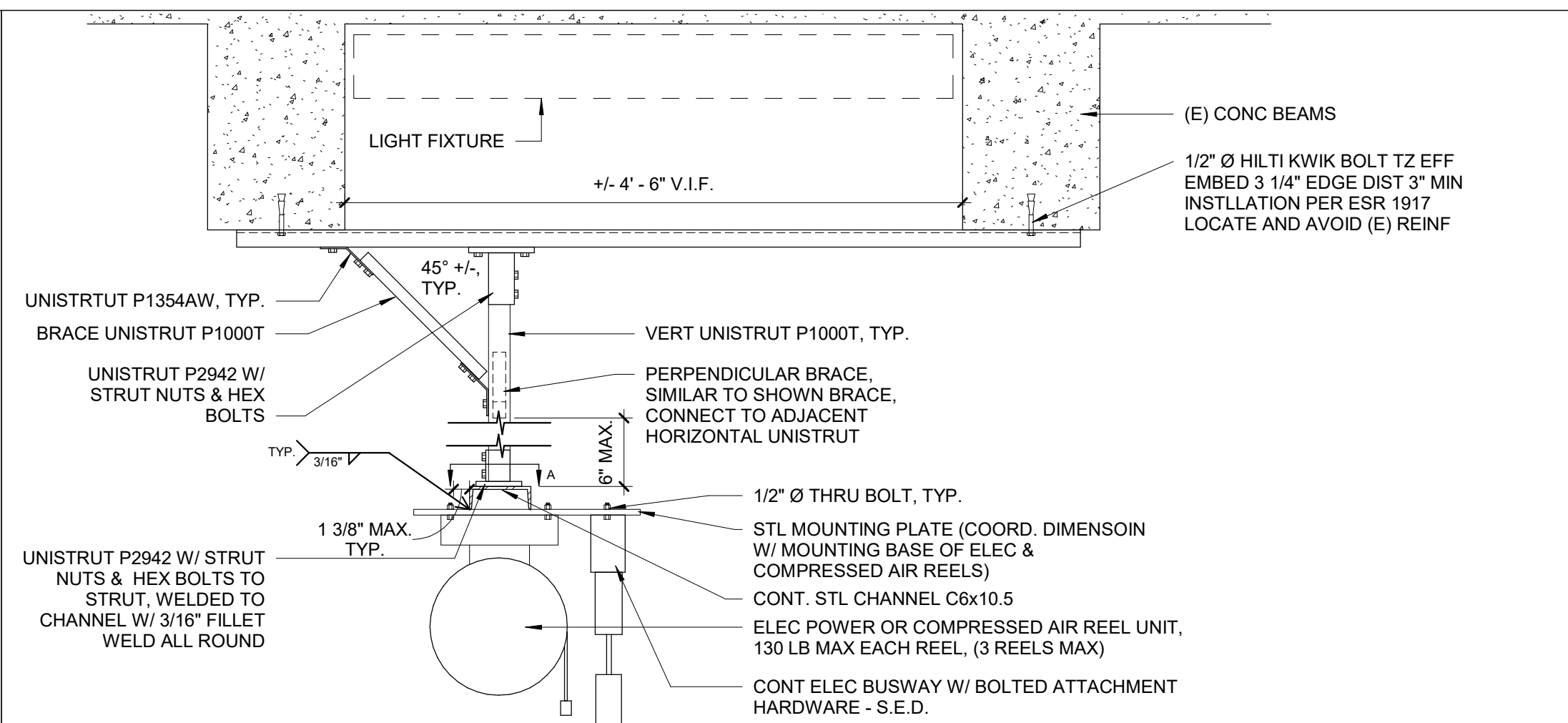
4 HEADER

3" = 1'-0"



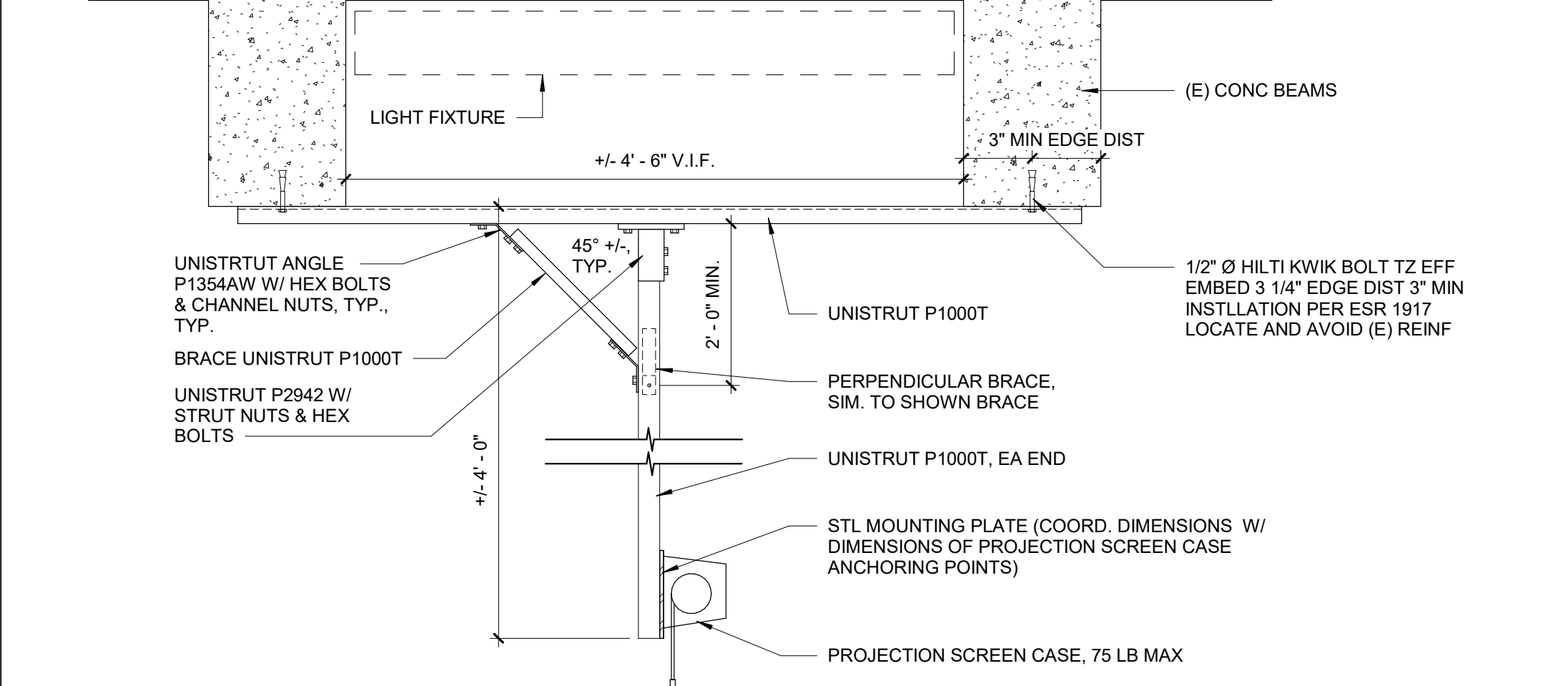
5 DBL JAMB STUDS

3" = 1'-0"



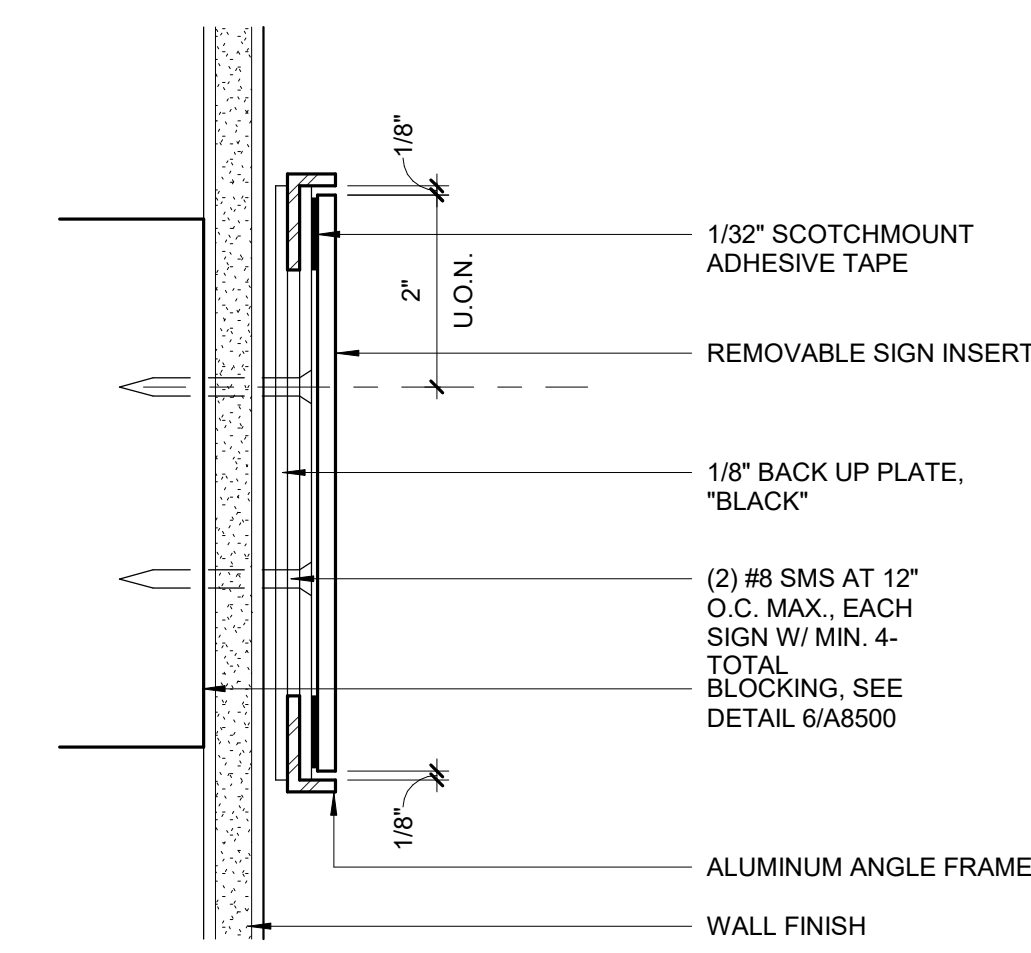
7 OVERHEAD REEL

1" = 1'-0"



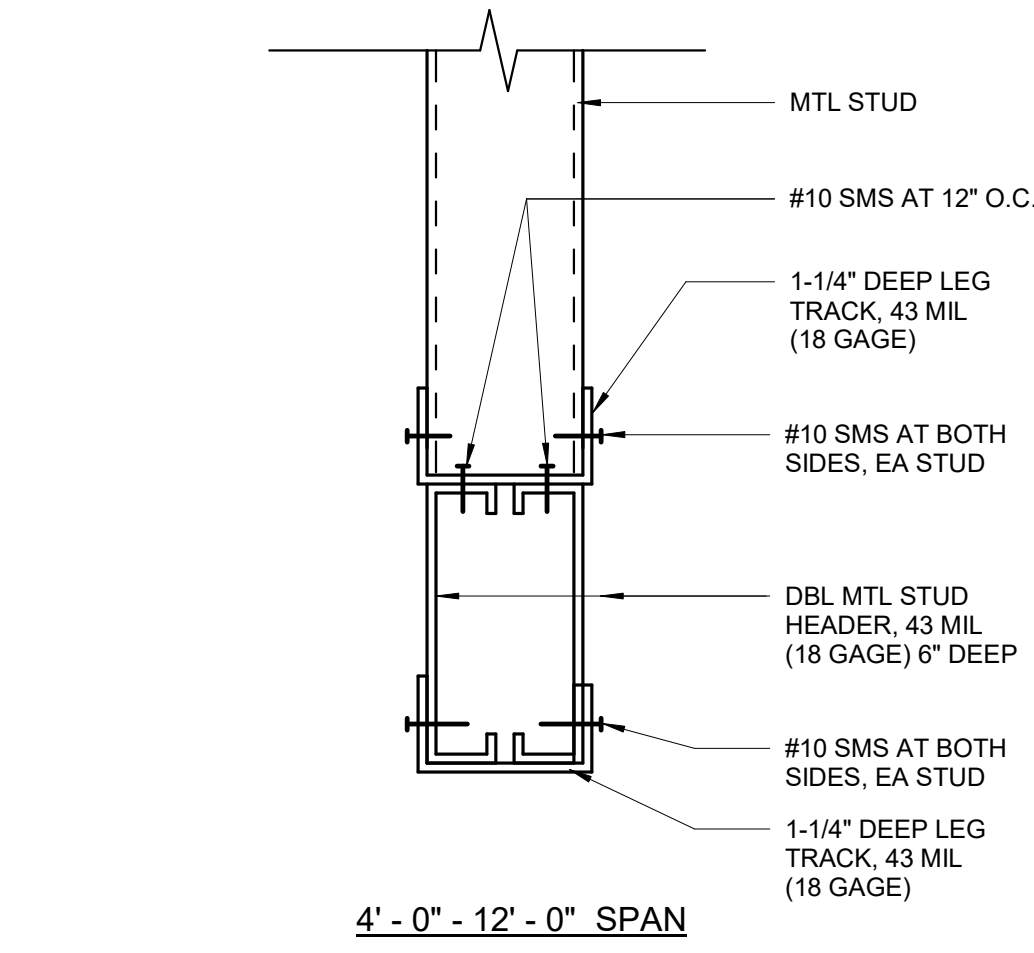
8 OVERHEAD PROJECTION SCREEN

1" = 1'-0"



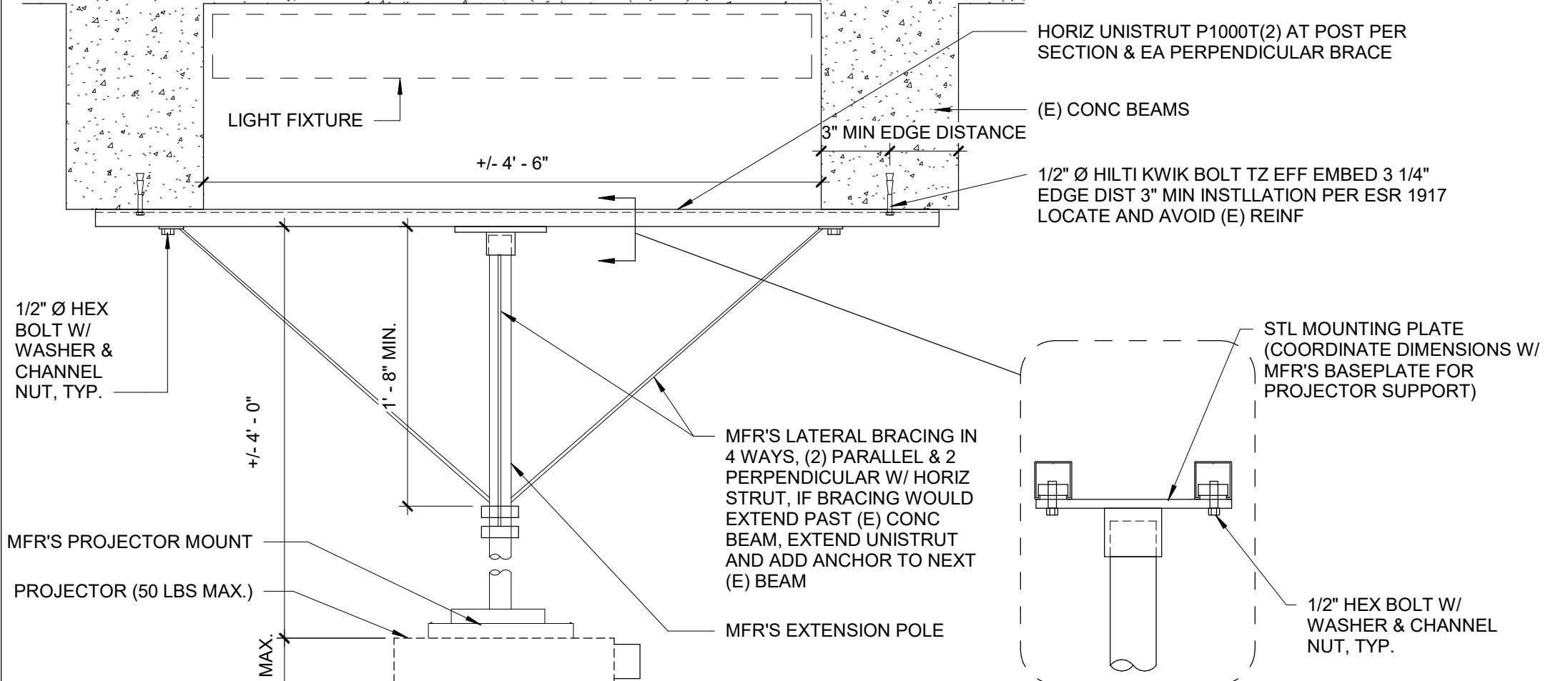
12 SIGNAGE FRAME

6" = 1'-0"



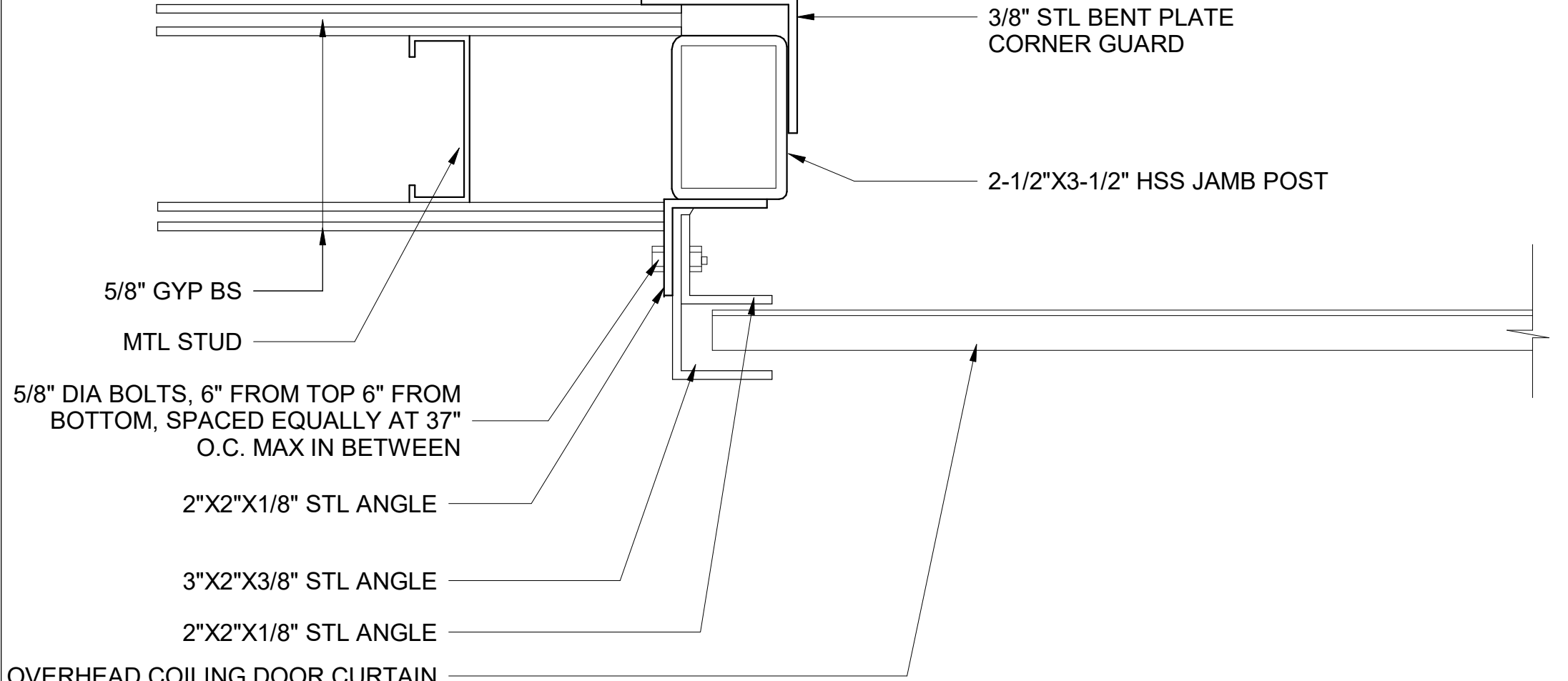
6 HEADER

3" = 1'-0"



9 OVERHEAD PROJECTOR

1" = 1'-0"



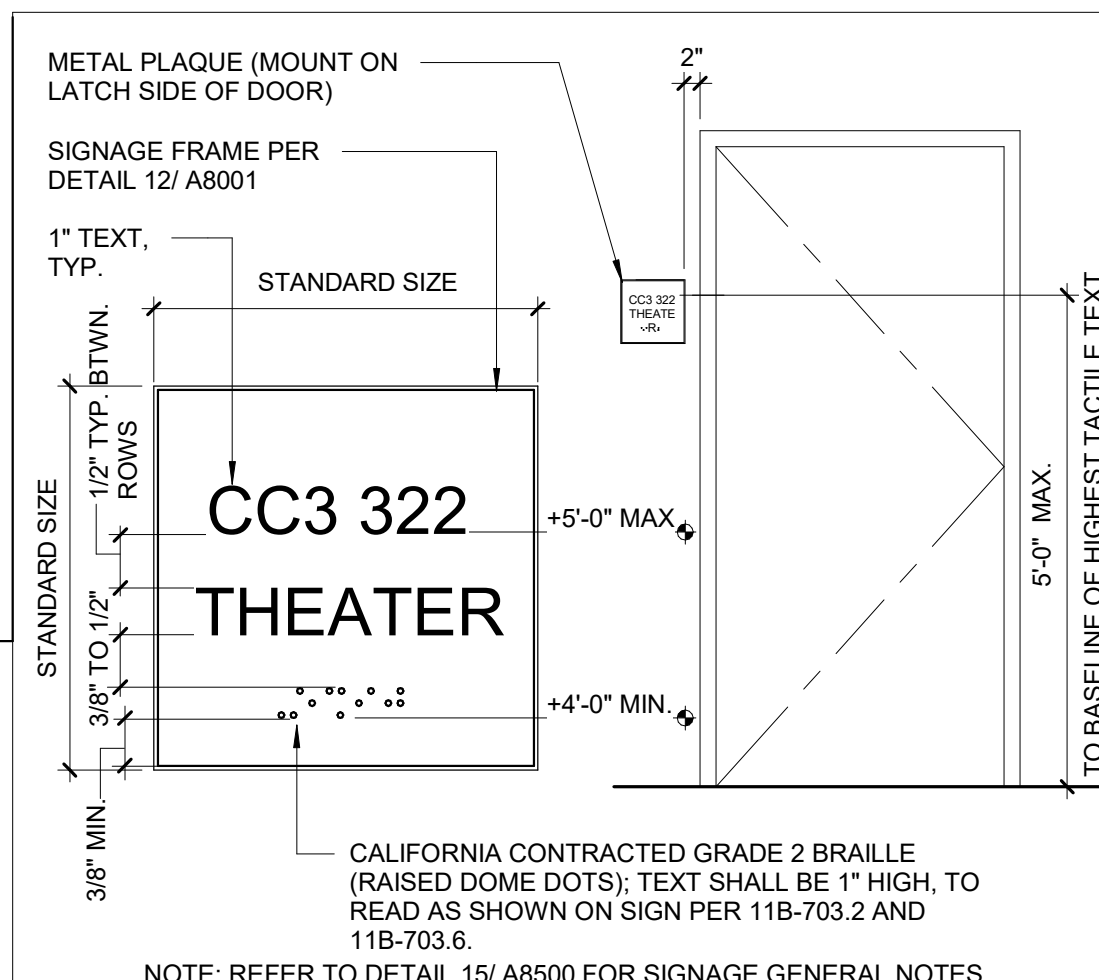
11 OVERHEAD COLING DOOR JAMB

3" = 1'-0"

GENERAL SIGNAGE NOTES

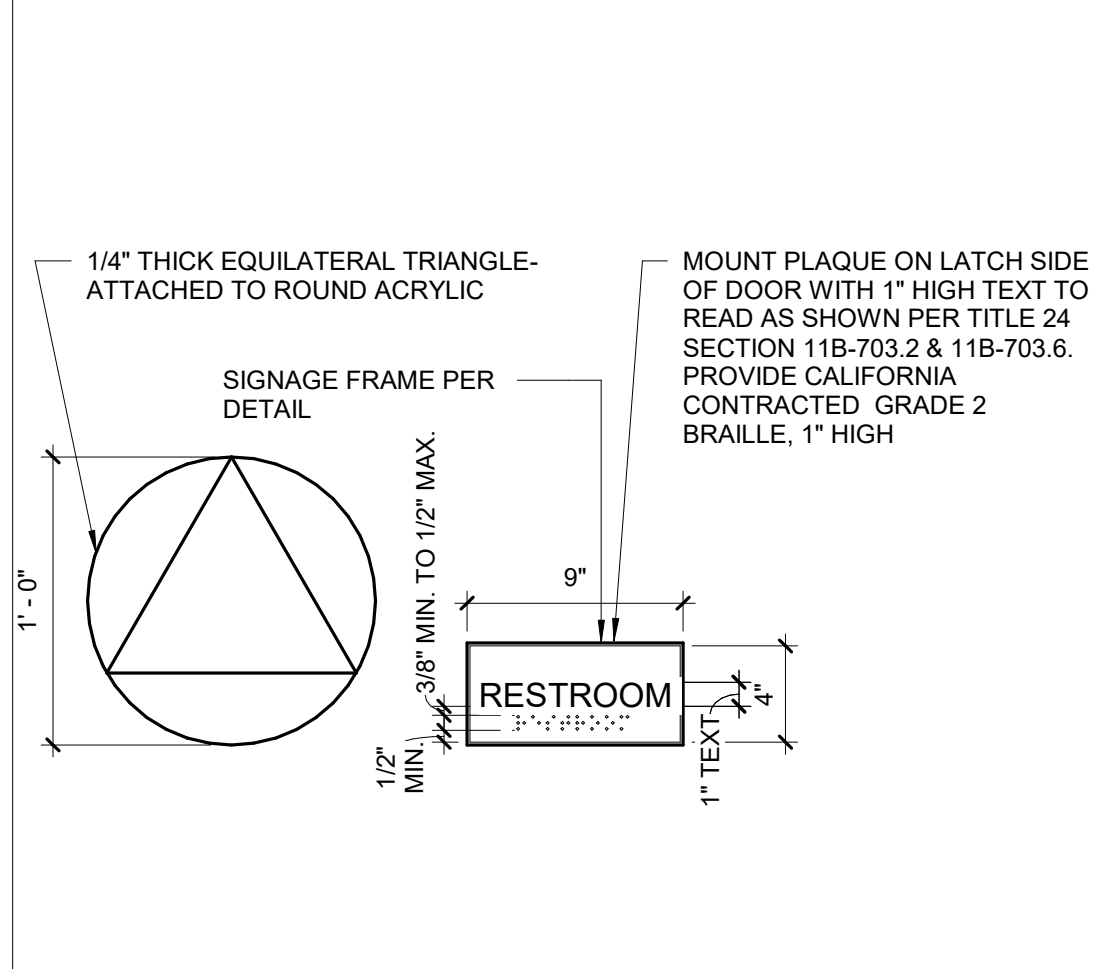
- ALL SIGNS AND PLAQUES TO BE 1/4" THICK.
- RAISE ALL SYMBOLS AND LETTERS 1/32" ABOVE SIGN/ PLAQUE SURFACE UNLESS OTHERWISE NOTED.
- CONTRAST BETWEEN SIGN AND SIGN CONTENT SHALL BE 70% MIN. AND HAVE A NON-GLARE FINISH.
- CONTRAST BETWEEN SIGN AND MOUNTING SURFACE SHALL BE 70% MINIMUM.
- REFER TO DETAIL 13 A8001 FOR FRAME AND ANCHORAGE.
- CALIFORNIA GRADE 2 DOTS SHALL BE DOMES/RAISED A MINIMUM OF 0.6mm; 2.5mm BETWEEN TWO DOTS IN THE SAME CELL; 7.6mm BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS; 0.4mm BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW.
- SIGNAGE SHALL COMPLY WITH 2016 TITLE 24, SECTION 11B-216 AND 11B-703.
- WHERE GLAZING OCCURS ADJACENT TO STRIKE SIDE OF DOOR, ADHERE SIGNAGE TO GLAZING AND PROVIDE "BLANK-OFF" PANEL ON OPPOSITE SIDE OF GLAZING.
- REFER TO DETAIL 13 A8001 FOR FRAME AND ANCHORAGE.
- ROOM NAMES AND NUMBERING SHALL BE DETERMINED BY THE OWNER DURING THE CONSTRUCTION SUBMITTAL PROCESS.
- TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE TACTILE CHARACTER AND 60" MAX. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER (2013 CBC ARTICLE 11B-703.4.1).
- SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED PER 2013 CBC 11B-703 AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER APPENDIX CHAPTER 1, SECTION 110.2, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS. 2013 CBC 11B-703.3 - 703.4

15 SIGNAGE NOTES



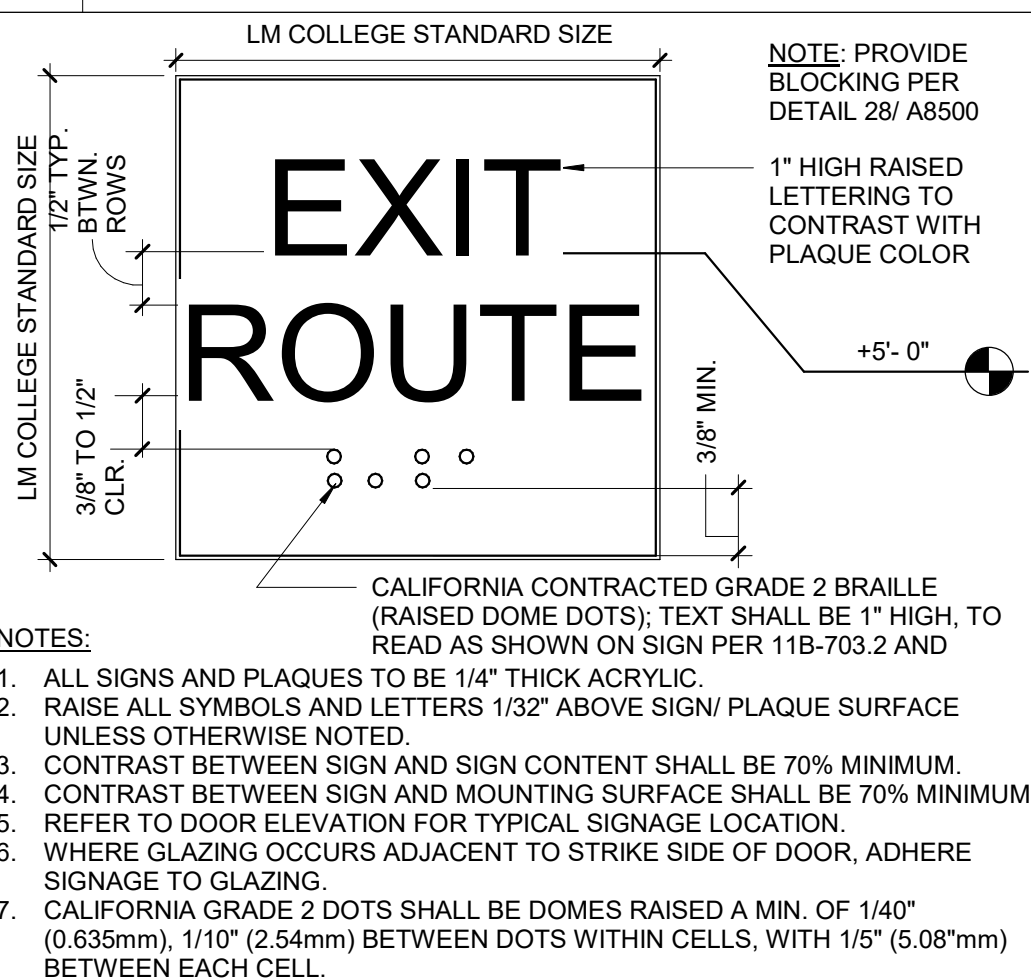
13 ROOM ID SIGN

1/2" = 1'-0"



16 UNISEX RESTROOM

1 1/2" = 1'-0"



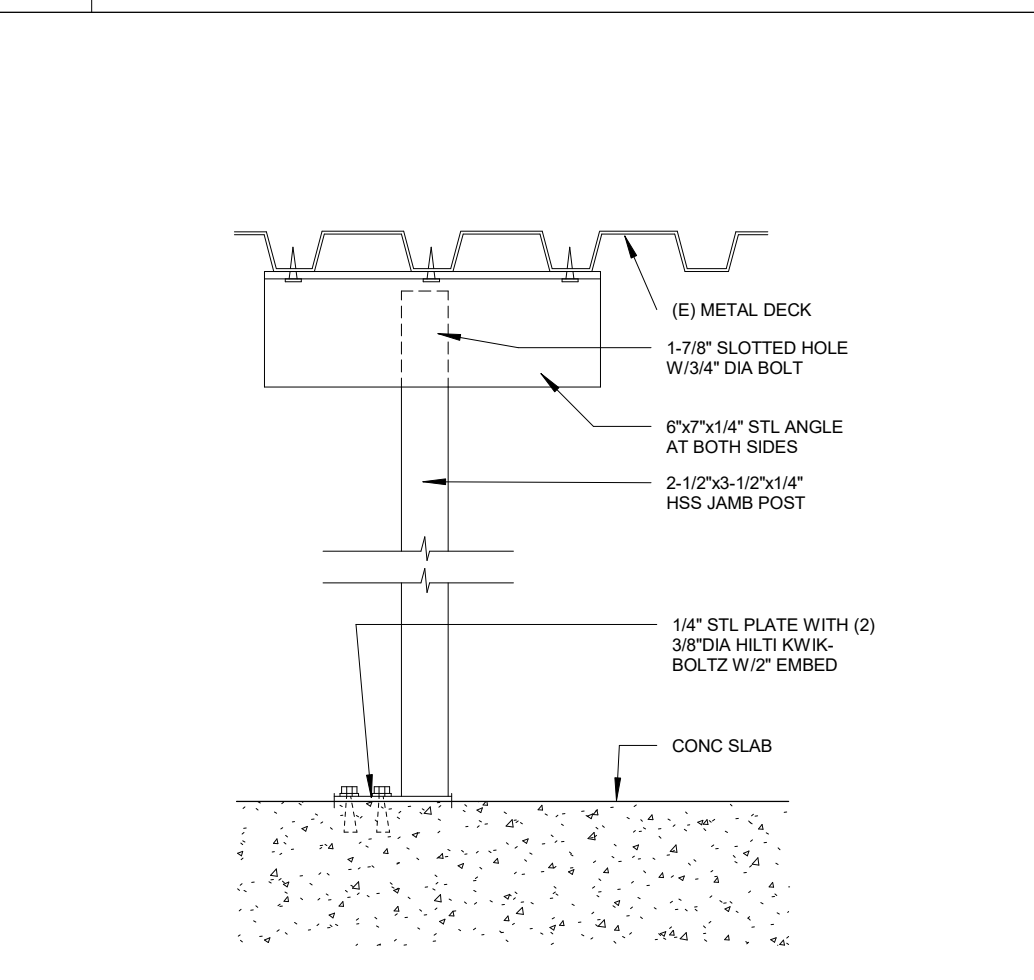
14 EXIT ROUTE SIGN

1/2" = 1'-0"

LETTER	DESCRIPTION	ADULT
A	FROM WALL TO CENTERLINE OF TOILET	17" - 18"
B	TOILET SEAT HEIGHT (TO TOP OF SEAT)	17" - 19"
C	GRAB BAR HEIGHT	33" - 36" TOP
D	TOILET TISSUE DISPENSER TO TOILET	7" - 9" C
E	SANITARY NAPKIN DISPOSAL TO TOILET	12" MAX.
E1	SANITARY NAPKIN DISPOSAL FROM FLOOR TO TOP	19" MIN.
F	DISPENSER OR MIRROR TO REFLECTIVE SURFACE	40" MAX.
G	LAVATORY/ SINK HEIGHT	34" MAX.
G1	LAVATORY APRON CLEARANCE	29" MIN.
H	KNEE CLEARANCE	27" MIN.
I	URNAL RIM HEIGHT	13" - 17"
J	URNAL FLUSH HANDLE HEIGHT	44" MAX.
K	DRINKING FOUNTAIN BUBBLER	36" MAX.
L	DRINKING FOUNTAIN KNEE HEIGHT	27" MIN.
M	DISPENSER HEIGHT (STANDING UNIT)	38" - 43"
ADULT	DIMENSIONS FOR PERSONS 12 YEARS AND OLDER	

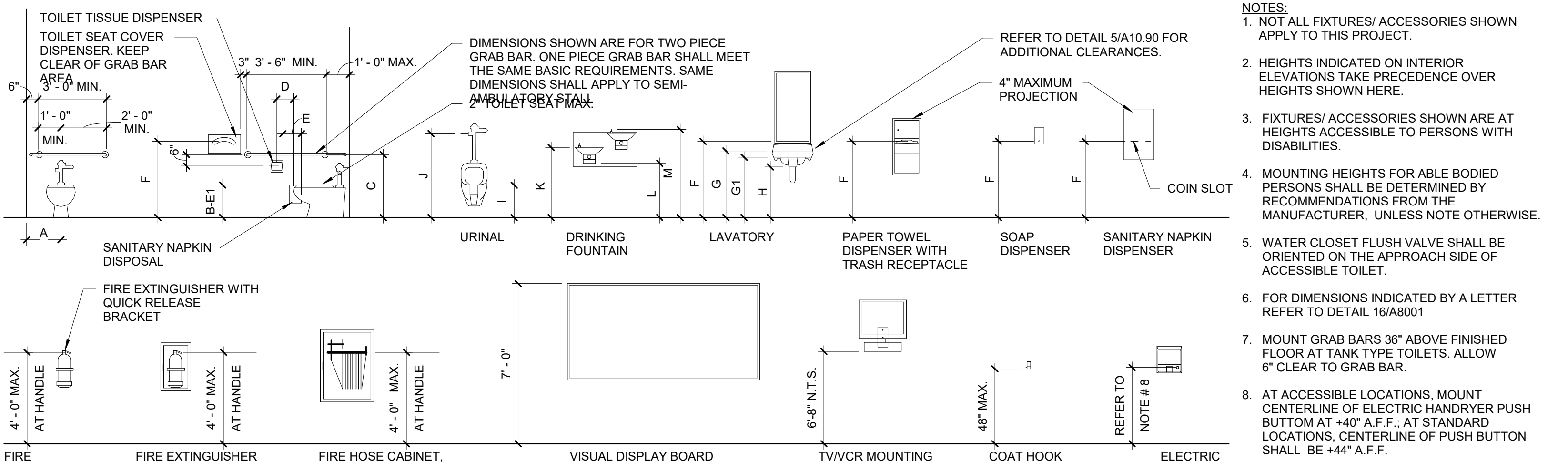
17 ACC. MTG HEIGHTS

1/4" = 1'-0"



10 HSS ANCHORAGE

3" = 1'-0"



18 MOUNTING HEIGHTS

1/4" = 1'-0"

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IDENTIFICATION STAMP

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APP: 01-118866 INC.

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 07/09/2020

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San Jose, CA 95113, USA

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APPROVED BY:

Approver

SCALE:

As Indicated

DATE:

08/24/18

SHEET TITLE

DETAILS

SHEET NUMBER

A8001

ISSUE

ABBREVIATIONS

MATERIAL ABBREVIATIONS LISTED BELOW APPLIES TO THIS SHEET ONLY AND TAKE PRECEDENCE OVER THOSE ABBREVIATIONS LISTED ON SHEET A0.01. REFER TO SHEET A0.01 FOR ABBREVIATIONS NOT LISTED BELOW.

FLOOR MATERIAL DESIGNATIONS

FLR1	- EXISTING CONCRETE
FLR2	- CONC TOPPING OVER EXISTING SLAB, TROWEL FINISH

BASE MATERIAL DESIGNATIONS

B1	- RESILIENT TOP SET BASE (AT NEW GYP BD WALL)
----	---

WALL MATERIAL DESIGNATIONS

C	- EXISTING CONC, UNPAINTED
GB	- GYPSUM BOARD, PAINTED
GBWR	- WATER RESISTANT GYPSUM BOARD
P	- PAINT
PL	- PLASTIC LAMINATE
PLAS	- PLASTER
PLY	- PLYWOOD
VCTP	- VINYL COVERED TACKABLE PANEL

CEILING MATERIAL DESIGNATION

CLG1	- EXISTING CONC COFFERED ROOF STRUCTURE, UNPAINTED
CLG2	- EXISTING EXPOSED STL ROOF STRUCTURE: NEW PAINT FOR FRAMING & UNDERSIDE OF DECKING

FINISH DESIGNATIONS

HS	- HARDENER/SEALER
FAC	- FACTORY APPLIED FINISH
P	- PAINT
PF	- PREFINISHED

MISCELLANEOUS DESIGNATIONS

FP	- SPRAYED FIRE PROOFING
GRT	- GROUT
INTU	- INTUMESCENT PAINT
MIR	- MIRROR

ROOM SCHEDULE REMARKS	
1.	REFER TO INTERIOR ELEVATIONS FOR ELEVATIONS, WALLS, AND FINISHES NOT NOTED IN THE ROOM FINISH SCHEDULE.

ROOM - GENERAL NOTES

1. REFER TO SPECIFICATION SECTION 09 06 00 (COLORS AND FINISHES) FOR MATERIAL AND FINISH INFORMATION AND COLOR SCHEDULE.
2. WHERE MORE THAN ONE FLOOR FINISH MATERIAL IS INDICATED IN A ROOM, REFER TO FLOOR PLAN FOR EXTENT AND LAYOUT OF EACH TYPE OF MATERIAL.
2. WHERE MORE THAN ONE WALL FINISH IS INDICATED, REFER TO INTERIOR ELEVATIONS.
3. PAINT ACCESS PANELS, LOUVERS, GRILLES, ETC. TO MATCH ADJACENT FINISH. ACCESS PANELS IN CERAMIC TILE SHALL BE STAINLESS STEEL.
4. WHERE MORE THAN ONE CEILING FINISH MATERIAL IS INDICATED IN A ROOM, REFER TO REFLECTED CEILING PLAN FOR EXTENT AND EACH TYPE OF EACH TYPE OF MATERIAL.
5. GYPSUM BOARD IN CONCEALED SPACES TO HAVE LEVEL-1 FINISH.
6. THE FINISH FLOOR TRANSITION BETWEEN SPACES IS TO OCCUR AT THE "STRIKE-SIDE" OF THE DOORWAY IN THE DIRECTION OF DOOR SWING, UNLESS OTHERWISE NOTED ON FLOOR PLAN. OPENINGS WITHOUT DOORS SHALL BE AS INDICATED ON FLOOR PLANS.

DOOR AND WINDOW - GENERAL NOTES

<p>1. DOORS AND WINDOWS ARE IDENTIFIED AS DEFINED IN SYMBOL LEGEND ON SHEET A0.01.</p> <p>2. ALL DOORS ARE 1-3/4" THICK U.O.N. ALL HOLLOW METAL FRAME MEMBERS ARE 2" IN WIDTH, U.O.N. REFER TO DETAILS.</p> <p>3. EXIT DOORS FROM ALL OCCUPIED SPACES TO BE PROVIDED WITH TYPE OF LOCK OR LATCH THAT IS OPENABLE FROM THE INSIDE PER THE REQUIREMENTS OF THE 2013 CALIFORNIA BUILDING CODE SECTION 1008, ARTICLE 1008.1.9 - DOOR OPERATIONS.</p> <p>4. ALL REQUIRED DOORS TO BE POSITIVE LATCHING AND SELF-CLOSING. "LABEL" SHALL MEAN FIRE ASSEMBLY AS DEFINED IN 2013 CBC SECTION 715.</p> <p>5. ALL LABELED DOORS SHALL HAVE APPROPRIATE CLOSER AND HARDWARE ASSEMBLIES AS REQUIRED BY DOOR LABELING AGENCY.</p> <p>6. ALL DOORS AND FRAMES SHALL BE PAINTED COLOR AS SPECIFIED BY THE ARCHITECT.</p> <p>7. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL BE AS FOLLOWS:</p> <ul style="list-style-type: none">A. INTERIOR DOORS = 5 LBSB. EXTERIOR DOORS = 5 LBSC. FIRE DOORS = THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING BUT NOT TO EXCEED 15 LBS. MAXIMUM. <p>8. FLOOR MOUNTED DOOR STOPS AND SIMILAR OBSTRUCTIONS TO BE INSTALLED 4" MAX. FROM FACE OF WALL OR PARTITION.</p> <p>9. PROVIDE ROOM IDENTIFICATION SIGNAGE AT ALL DOORS, U.O.N. REFER TO DOOR SCHEDULE. CONTRACTOR SHALL SUBMIT A DOOR SIGNAGE SCHEDULE TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.</p>	<p>10. REFER TO DOOR SCHEDULE FOR DOOR WIDTHS, HEIGHTS, AND MATERIAL.</p> <p>11. REFER TO FLOOR PLANS FOR DOOR LOCATIONS, AND DIRECTION OF SWINGS.</p> <p>12. DOOR AND FRAME TYPE SCHEDULE: IF NO DETAIL IS REFERENCED, REFER TO SIMILAR CONDITIONS.</p> <p>13. IN ADDITION TO THE LOCATIONS INDICATED, PROVIDE TEMPERED GLASS IN THE FOLLOWING LOCATIONS:</p> <ul style="list-style-type: none">A. WITHIN A 24-INCH RADIUS OF DOOR JAMBS.B. IN FIXED PANELS WHICH HAVE A GLAZED AREA IN EXCESS OF 9 SQUARE FEET AND THE LOWEST EDGE IS LESS THAN 18-INCHES ABOVE FINISHED FLOOR LEVEL. <p>14. GLAZING DESIGNATIONS:</p> <table border="0" style="margin-left: 20px;"><tr><td style="padding-right: 10px;">T</td><td>CLEAR TEMPERED GLASS</td></tr><tr><td>FR</td><td>FIRE RATED SAFETY GLASS</td></tr><tr><td>IG</td><td>CLEAR TEMPERED INSULATED GLASS</td></tr></table> <p>15. ANCHORAGE OF WINDOWS, ALUMINUM STOREFRONT, AND CURTAIN WALL SYSTEMS TO ADJACENT STRUCTURE AS INDICATED ON DETAILS IS SHOWN ONLY FOR PURPOSES OF OBTAINING DRAWING APPROVAL FROM THE DIVISION OF THE STATE ARCHITECT. ACTUAL ANCHORAGES ARE TO BE INDICATED ON SHOP DRAWINGS AND FULLY ENGINEERED (WITH SUPPORTING CALCULATIONS) TO PERFORMANCE REQUIREMENTS INDICATED IN PROJECT MANUAL.</p> <p>16. WINDOW HEIGHTS INDICATED ARE RELATIVE TO FINISH FLOOR ELEVATION IN WHICH WINDOW OCCURS.</p>	T	CLEAR TEMPERED GLASS	FR	FIRE RATED SAFETY GLASS	IG	CLEAR TEMPERED INSULATED GLASS
T	CLEAR TEMPERED GLASS						
FR	FIRE RATED SAFETY GLASS						
IG	CLEAR TEMPERED INSULATED GLASS						

DOOR AND WINDOW SCHEDULE REMARKS

FRAME TYPES

The diagram illustrates two types of window frames, labeled AA and BB.

Frame AA: A simple rectangular frame with a single pane.

Frame BB: A more complex frame with multiple panes. The diagram shows a cross-section of the frame with labels A, B, C, D, and E indicating different components:

- A:** Points to the central pane.
- B:** Points to the side pane.
- C:** Points to the top pane.
- D:** Points to the bottom pane.
- E:** Points to the frame structure.

DOOR TYPES

The diagram illustrates five different door configurations, labeled A through E, with their respective dimensions and features.

- A:** A single door with a transom (T) above it. The height of the door is 3' 4 1/2".
- B:** A double door with two transoms (FR) above each door. The height of the door is 3' 4 1/2".
- C:** A double door with two transoms (IG) above each door. The height of the door is 3' 4 1/2".
- D:** A single door with a transom (T) above it. The height of the door is 3' 4 1/2". The transom is labeled CLR TEMP GLASS. The door is 6" wide and 6" high. The transom is 6" wide and 6" high. The door is 6" wide and 6" high.
- E:** An overhead coiling door.

9100 - ROOM FINISH SCHEDULE																					
No.	ROOM NAME	FLOOR				BASE				NORTH		EAST		SOUTH		WEST		CEILING	REMARKS	No.	
		M1	F1	M2	F2	M1	F1	M2	F2	M1	F1	M1	F1	M1	F1	M1	F1	M1			
101	APPLIANCE LAB	FLR1	(E)			NONE				C		C		C		C		(E)EXP	CLEAN	101	
102	HVAC LAB	FLR2	---			B1				C		C	GB	C		C		(E)EXP	CONCRETE TOPPING	102	
103	OFFICE	FLR1	(E)			NONE				C		C		C		C		(E)EXP		103	
104	HALLWAY	FLR1	(E)			B1				C		C		C		C		(E)EXP		104	
105	UNISEX	(E)	(E)	(E)	(E)	(E)	(E)			(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	PATCH (E) FINISHES TO MATCH EXISTING AFTER NEW LAV INSTALLATION	105	

9200 - DOOR SCHEDULE															
DOOR No.	DOOR				FIRE RATING	HARDWARE	FRAME					STRIKE	THRESHOLD	REMARKS	DOOR No.
	TYPE	MAT	FINISH	WIDTH			HEIGHT	TYPE	MAT	FINISH	HEAD				
101A	B	HM	P	6' - 0"	7' - 0"	60 MIN	03	(E)	HM	P					
102A	A	HM	P	3' - 0"	7' - 0"		01	AA	HM	P					101A
102B	E	STL	FAC	8' - 0"	8' - 0"		--	---	---	---					102B
103A	D	HM	P	3' - 0"	7' - 0"		02	BB	HM	P					103A
103B	(E)	HM	P	3' - 0"	7' - 0"			(E)	HM	P					103B
C	C	HM	P	6' - 0"	7' - 0"		04	(E)	HM	P					104A
104B	B	HM	P	6' - 0"	7' - 0"	60 MIN	03	(E)	HM	P					104B

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PROJECT L-1177 Industrial Trades Labs Renovation	
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PROJECT NO: 121030	
DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: ARCHITECTURAL	APPROVED BY: Approver
SHEET TITLE ROOM FINISH SCHEDULE	
SHEET NUMBER A9101	ISSUE

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SHEET NUMBER A9101	ISSUE

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SHEET NUMBER A9101	ISSUE

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MECHANICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
- FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
- ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
- (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND, COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- THERMOSTAT TO BE INSTALLED AT 48" ABOVE FINISHED FLOOR (TOP OF THERMOSTAT), DO NOT INSTALL THERMOSTAT OVER CASEWORK OR SHELVING OVER 24" IN DEPTH & 34" IN HEIGHT.

DIFFUSER, REGISTER & GRILLE SCHEDULE

SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS
	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING	880 V	V 4004 S	61 DV	300 RS
	RETURN OR EXHAUST GRILLE WITH 35" OR 45" HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL
	DOUBLE DEFLECTION SPIRAL DUCT MOUNTED SUPPLY OR RETURN GRILLE WITH CURVED FRAM AIR SCOOP EXTRACTOR, VERTICAL FRONT BLADES, 3/4" SPACING.	EQUAL	EQUAL	EQUAL	S300FS

- NOTES:**
- ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.
 - ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
 - FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
 - COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.
 - OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.
 - PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.
- * ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW)
		RECTANGULAR DUCT - DEPTH x WIDTH (SECTION VIEW)
		1" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		2" ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
		RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO RECTANGULAR TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-IN W/DAMPER AND SCOOP
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE THREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP
		FLEXIBLE DUCT (ROUND)
		FLEXIBLE DUCT (FABRIC)
		45° REDUCING LATERAL FITTING
		90° REDUCING TEE FITTING

EXHAUST FAN SCHEDULE

UNIT	SERVES	"GREENHECK" MODEL NO. U.N.O.	CFM	SP (IN. W.G.)	DUTY	STYLE	RPM	HP	VOLT/PH	OPER. WT. (LBS.)	INTERLOCK TO RUN WITH	MOUNTING DETAIL	NOTES
	VOCATIONAL LAB 101	GB-220	4,400	0.5	E	RED	730	1.0	208/3	125	EMS TIMECLOCK		

DUTY: E- EXHAUST
STYLE: RED-- ROOF EXHAUST DOWNBLAST, REU-- ROOF EXHAUST UPBLAST

- NOTES:**
- PROVIDE WITH THERMAL OVERLOAD PROTECTED MOTOR.
 - PROVIDE WITH FACTORY BACKDRAFT DAMPER.

- RECONNECT TO EXISTING "ANDOVER" CONTROLS SERVING REMOVED FAN. FAN SHALL OPERATE ON EMS TIMECLOCK SCHEDULE SAME AS THE ASSOCIATED BUILDING AIR HANDLING UNIT.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	ABC	ABOVE CEILING
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AD, AP	ACCESS DOOR, ACCESS PANEL
	AC	AIR CONDITIONING
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	AB	ANCHOR BOLT
	BDD	BACK DRAFT DAMPER
	BF	BELOW FLOOR
	BHP	BRAKE HORSE POWER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	BPT	BYPASS TIMER
	CC	CENTER TO CENTER
	CLG	CEILING
	CEF	CEILING EXHAUST FAN
	CLR	CLEAR
	CONC	CONCRETE
	CD	CONCENTRIC REDUCER
	COND	CONDENSATE DRAIN
	CONN	CONDENSER
	CONT	CONNECT OR CONNECTION
	CONTR	CONTINUATION
	CFM	CONTRACTOR
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
	DIA	DEGREES FAHRENHEIT
	DL	DIAMETER, PHASE
	DN	DOOR LOUVER
	DR	DOWN
	DB	DRAIN
	DS	DRY BULB (DEGREES FAHRENHEIT)
	EP	DYNAMIC SENSOR
	EL	ECCENTRIC REDUCER
	ENT	ELECTRICAL PANEL
	EDB	ELEVATION
	EW	ENTERING
	EWT	ENTERING DRY BULB
	EWB	ENTERING WATER
	EWB	ENTERING WATER TEMPERATURE
	EVAP	ENTERING WET BULB
	EC	EVAPORATOR
	EA	EVAPORATIVE COOLER
	EAD	EXHAUST AIR
	EF	EXHAUST AIR DAMPER
	(E), EXIST	EXHAUST FAN
	(E)	EXISTING
	(E)	EXISTING TO BE REMOVED
	(E)	EXISTING TO BE ABANDONED
	(E)	EXISTING TO BE CAPPED
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FIN	FINISH
	FD	FIRE DAMPER
	FS	FIRE/SMOKE DAMPER
	FC	FLEXIBLE CONNECTION
	FLR	FLOOR
	FLV	FLOW IN DIRECTION OF ARROW
	FA	FLOW LIMITING VALVE
	FB	FROM ABOVE
	FLA	FROM BELOW
	GALV	FULL LOAD AMPS
	GI	GALVANIZED
	GA	GALVANIZED IRON
		GAUGE

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

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

MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

MECHANICAL LEGEND cont'd

SYMBOL	ABBREVIATION	DESCRIPTION
	HTG	HEATING
	H	HUMIDISTAT, "X" INDICATES DEVICE CONTROLLED
	IE	INVERT ELEVATION
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
	MAD, MD	MANUAL AIR DAMPER
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MCC	MINIMUM
	(N)	MOTOR CONTROL CENTER
	OC	NEW
	OA	ON CENTER
	OAD	OUTSIDE AIR
	OD	OUTSIDE AIR DAMPER
	OV	OUTSIDE DIAMETER
	OH	OUTLET VELOCITY
		OVERHEAD
		PIPE DROP
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION
	LBS	POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	PRV	PRESSURE REDUCING VALVE
	RG	REFRIGERANT GAS PIPING
	RS	REFRIGERANT SUCTION PIPING
	RL	REFRIGERANT LIQUID PIPING
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SB	SECURITY BARS
	SM	SHEET METAL
	SD	SMOKE DAMPER
	SKD	SMOKE DETECTOR
	SD	SPLITTER DAMPER
	SQFT, FT ²	SQUARE FEET
	SQIN, IN ²	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCV	TEMPERATURE CONTROL PANEL
		TEMPERATURE CONTROL VALVE
	T	TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED
	TM	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED
	TB	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UG	UNDERGROUND
	UCD	UNDER CUT DOOR
	UON	UNLESS OTHERWISE NOTED
	WPD	WATER PRESSURE DROP
	W	WATTS
	WT	WEIGHT
	WB	WET BULB
	WMS	WIRE MESH SCREEN

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

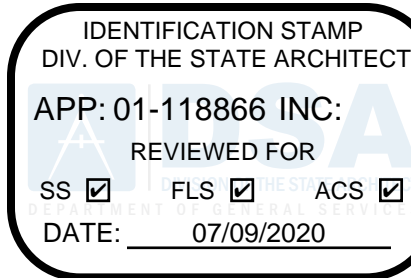
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES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

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

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

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

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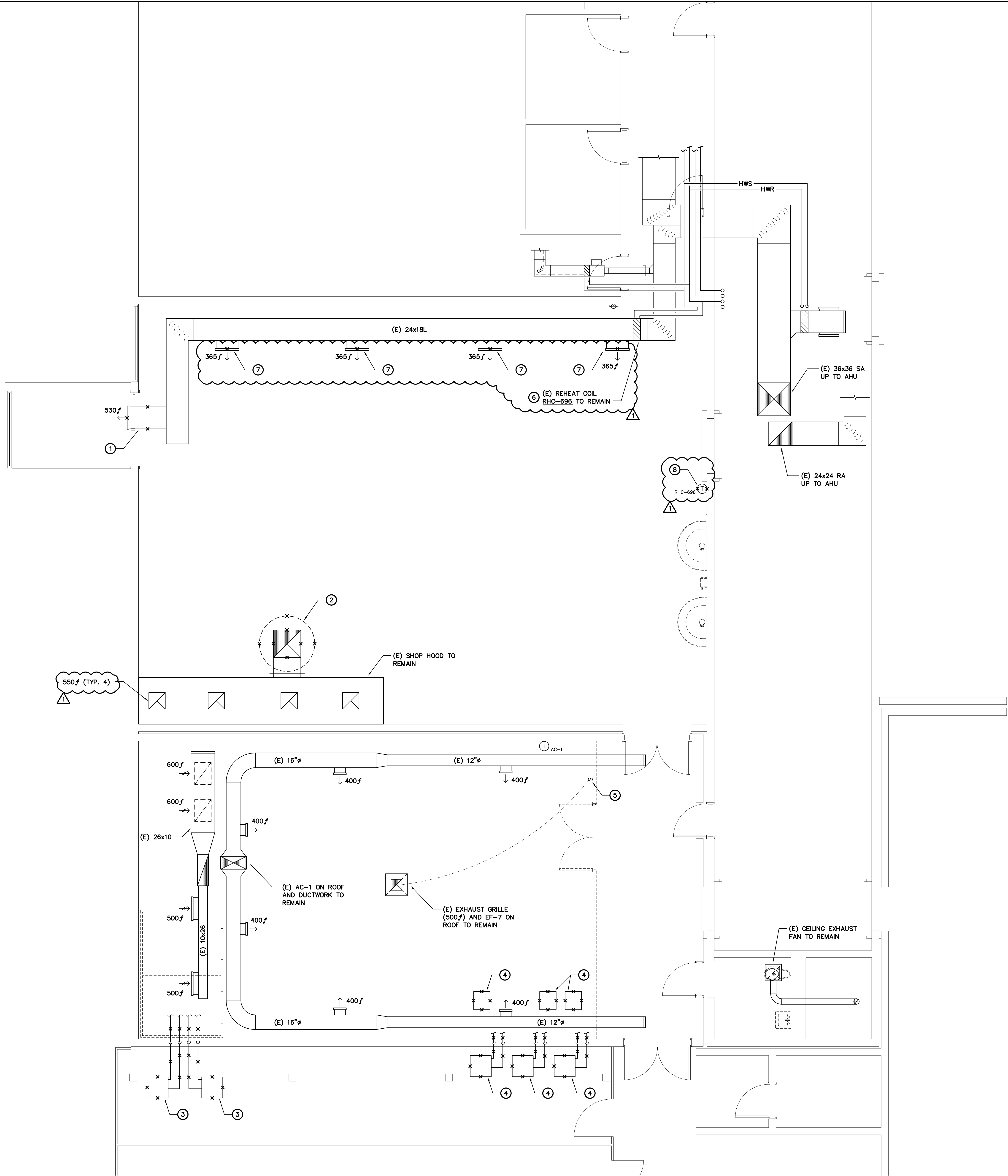
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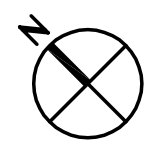
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QC		
INI	%	



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

1
M2010



SHEET NOTES:

1. LOCATIONS OF EXISTING EQUIPMENT, DUCTWORK AND PIPING SHOWN ARE APPROXIMATE ONLY AND DO NOT NECESSARILY REPRESENT ALL EXISTING HVAC COMPONENTS THAT WILL REQUIRE REMOVAL OR ABANDONMENT FOR COMPLETION OF NEW WORK. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND NUMBER OF EXISTING HVAC COMPONENTS IN FIELD PRIOR TO BEGINNING WORK AND PROVIDE ALL NECESSARY DEMOLITION REQUIRED TO COMPLETE NEW HVAC SYSTEM INSTALLATION.

- KEYNOTES:**
- 1 REMOVE EXISTING 28x6 SA DUCT AND GRILLE, AND PREPARE MAIN DUCT FOR NEW CONNECTION SHOWN ON SHEET M2310.
 - 2 REMOVE EXISTING EXHAUST FAN ON ROOF AND DUCTWORK BELOW AS SHOWN. DISCONNECT EXISTING CONTROLS AND PREPARE FOR RECONNECTION TO NEW FAN. PREPARE EXISTING CURB FOR REUSE AS SHOWN ON DETAIL 2/M5001. PREPARE DUCTWORK FOR CONNECTION TO NEW AS SHOWN ON SHEET M2310.
 - 3 REMOVE (E) CONDENSING UNITS, PIPING, CONTROLS AND ACCESSORIES SERVING WALK-IN FREEZERS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL NOTES REGARDING THE REMOVAL OF THE WALK-IN FREEZERS.
 - 4 REMOVE (E) CONDENSING UNITS & INDOOR UNITS, PIPING, CONTROLS AND ACCESSORIES SERVING HVAC UNITS USED FOR TEACHING PURPOSES.
 - 5 EXISTING WALL SWITCH TO BE REMOVED AND RELOCATED AS SHOWN ON SHEET M2310.
 - 6 REMOVE (E) PNEUMATIC CONTROLS SERVING CONTROL VALVE.
 - 7 REMOVE (E) GRILLE.
 - 8 REMOVE (E) PNEUMATIC THERMOSTAT.

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1	ADDENDUM 1	03/23/21

CONSULTANTS

CAPITAL

ENGINEERING CONSULTANTS, INC.

RANCHO CONCORD, CALIFORNIA

TD - RCC/JH 191204.00

PM - DESIGN TEAM PRODUCT NO.

REGISTERED PROFESSIONAL ENGINEER

THOMAS A. JAMES

22836

EXPIRES 8/30/20

MECHANICAL

STATE OF CALIFORNIA

DATE SIGNED: 06/20/2020

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PROJECT

L-1177 Industrial Trades Labs
Renovation

2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:
121030

DRAWN BY:
RCC/JH

CHECKED BY:
TD

PROJECT MGR:
ARCHITECTURAL

APPROVED BY:
Approver

SHEET TITLE

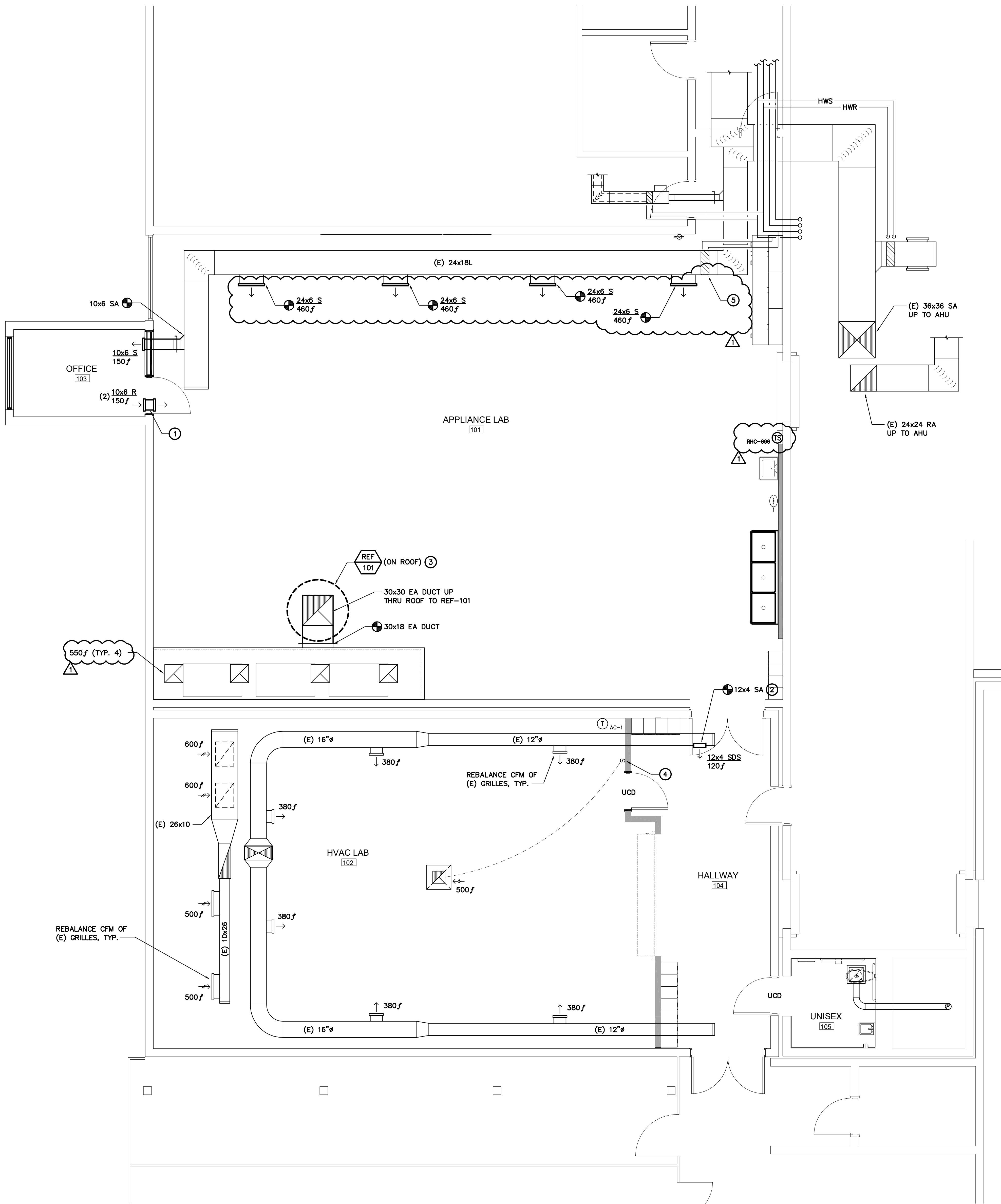
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER

AD1-M2010

ISSUE


QC	
INI	%



MECHANICAL FLOOR PLAN

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

1
M2310



SHEET NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS / GRILLES / FANS / ACCESS PANELS, TYP.
2. EXISTING DIFFUSERS/GRILLES SHALL BE REBALANCED AT COMPLETION OF THE PROJECT TO THE CFM'S INDICATED.
3. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" HORIZONTALLY FROM SUPPLY REGISTERS. COORDINATE WITH SHEET FA4.1.

KEYNOTES:

- ① 10x6 TRANSFER DUCT.
- ② SIDEWALL DIFFUSER, REFER TO DETAIL 1/M5001 FOR MOUNTING.
- ③ NEW EXHAUST FAN ON EXISTING CURB, REFER TO DETAIL 2/M5001. RECONNECT EXISTING CONTROL WIRING. FIELD VERIFY EXISTING CURB SIZE AND PROVIDE FACTORY TRANSITION CURB IF REQUIRED.
- ④ EXISTING WALL SWITCH RELOCATED TO NEW WALL.
- ⑤ PROVIDE NEW "ANDOVER" EMS CONTROLS FOR EXISTING HOT WATER CONTROL VALVE, REFER TO CONTROL DIAGRAM 4/M5001.

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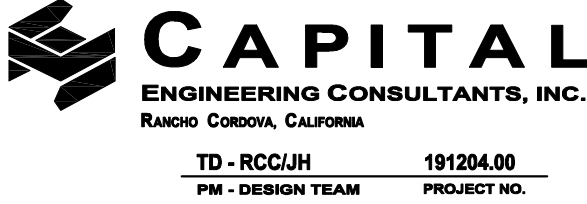
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1	ADDENDUM 1	03/23/21

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DATE SIGNED: 06/30/2020

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PROJECT

L-1177 Industrial Trades Labs
Renovation
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:
121030

DRAWN BY:

RCC/JH

PROJECT MGR:

ARCHITECTURAL

SHEET TITLE

MEC

PLAN

TEXT

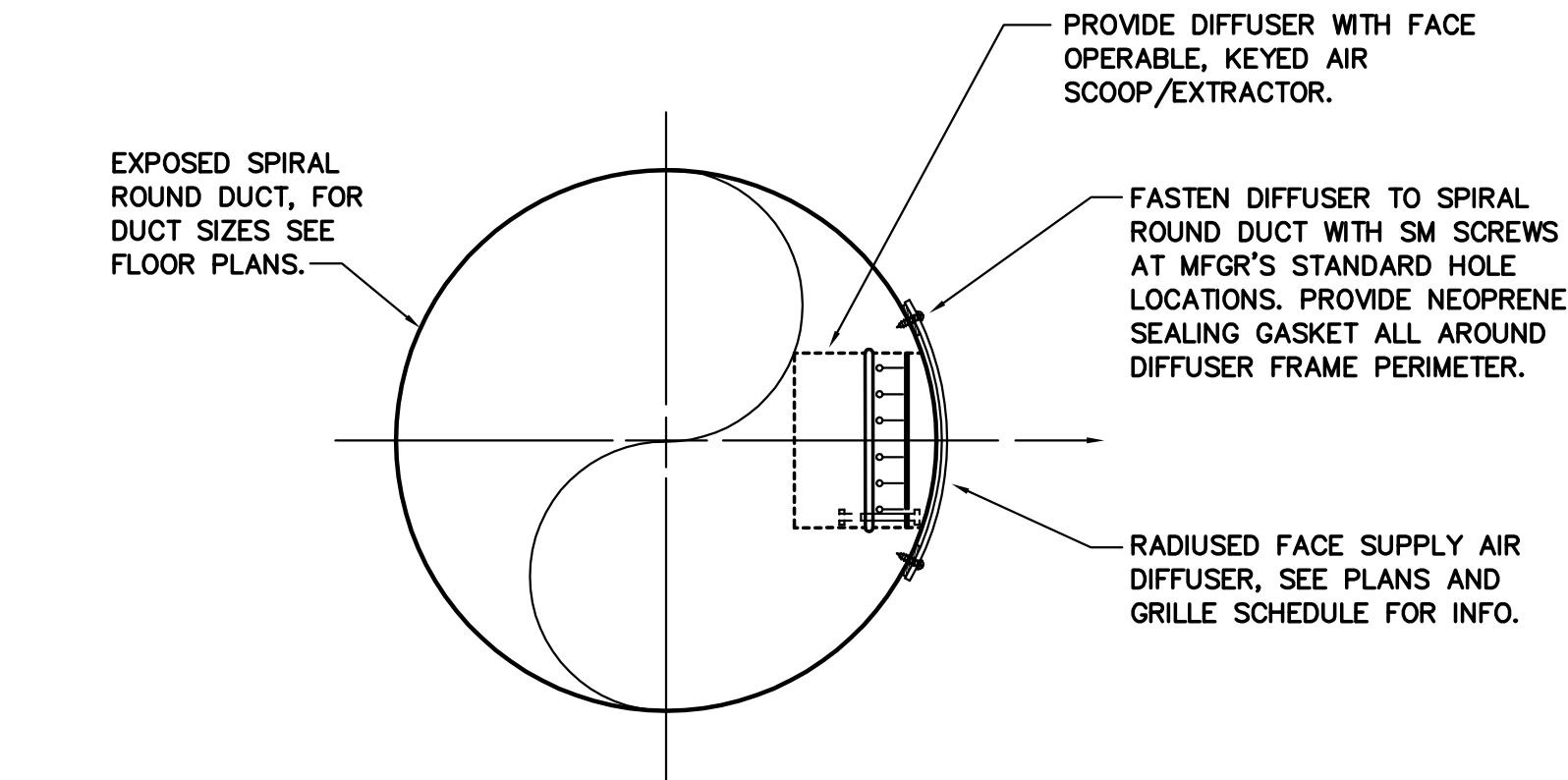
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ABSTRACT

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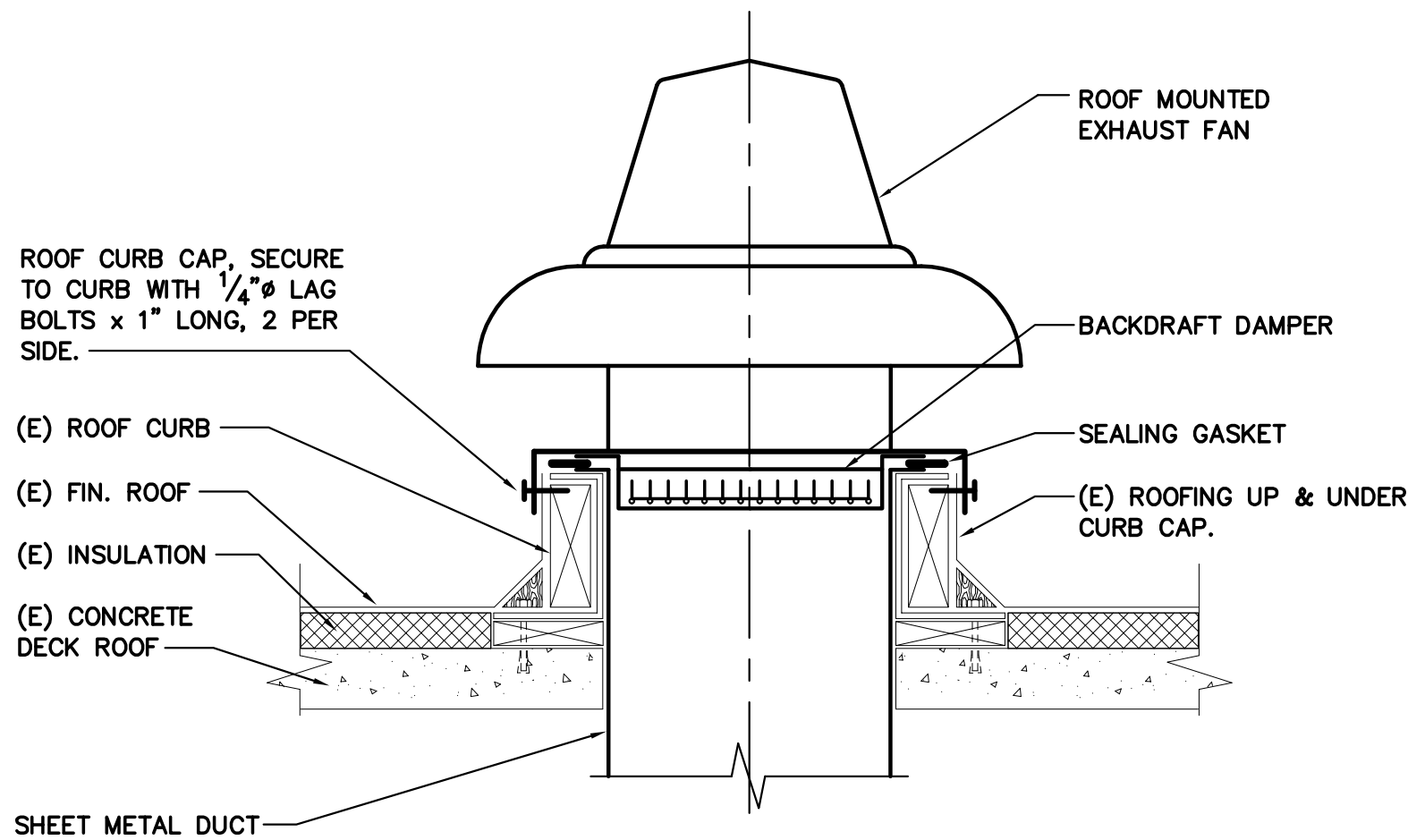


RADIUS FACE DIFFUSER MOUNTING

1

SCALE : NONE

M5001



NOTE: CONTRACTOR TO FIELD VERIFY EXISTING CURB SIZE AND ENSURE NEW EXHAUST FAN CURB CAP MATCHES, OR PROVIDE FACTORY ADAPTOR CURB IF REQUIRED.

REF MOUNTING DETAIL

2

SCALE : NONE

M5001

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DIV. OF THE STATE ARCHITECT

APP: 01-118866 INC.

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THOMAS A. JAMES

NO. 22838

EXPIRES 8/30/20

MECHANICAL

STATE OF CALIFORNIA

DATE SIGNED: 06/30/2020

SEAL

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2700 EAST LELAND ROAD

PITTSBURG, CA 94565

PROJECT NO:

121030

DRAWN BY:

RCC/JH

CHECKED BY:

TD

PROJECT MGR:

ARCHITECTURAL

APPROVED BY:

Approver

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M5001

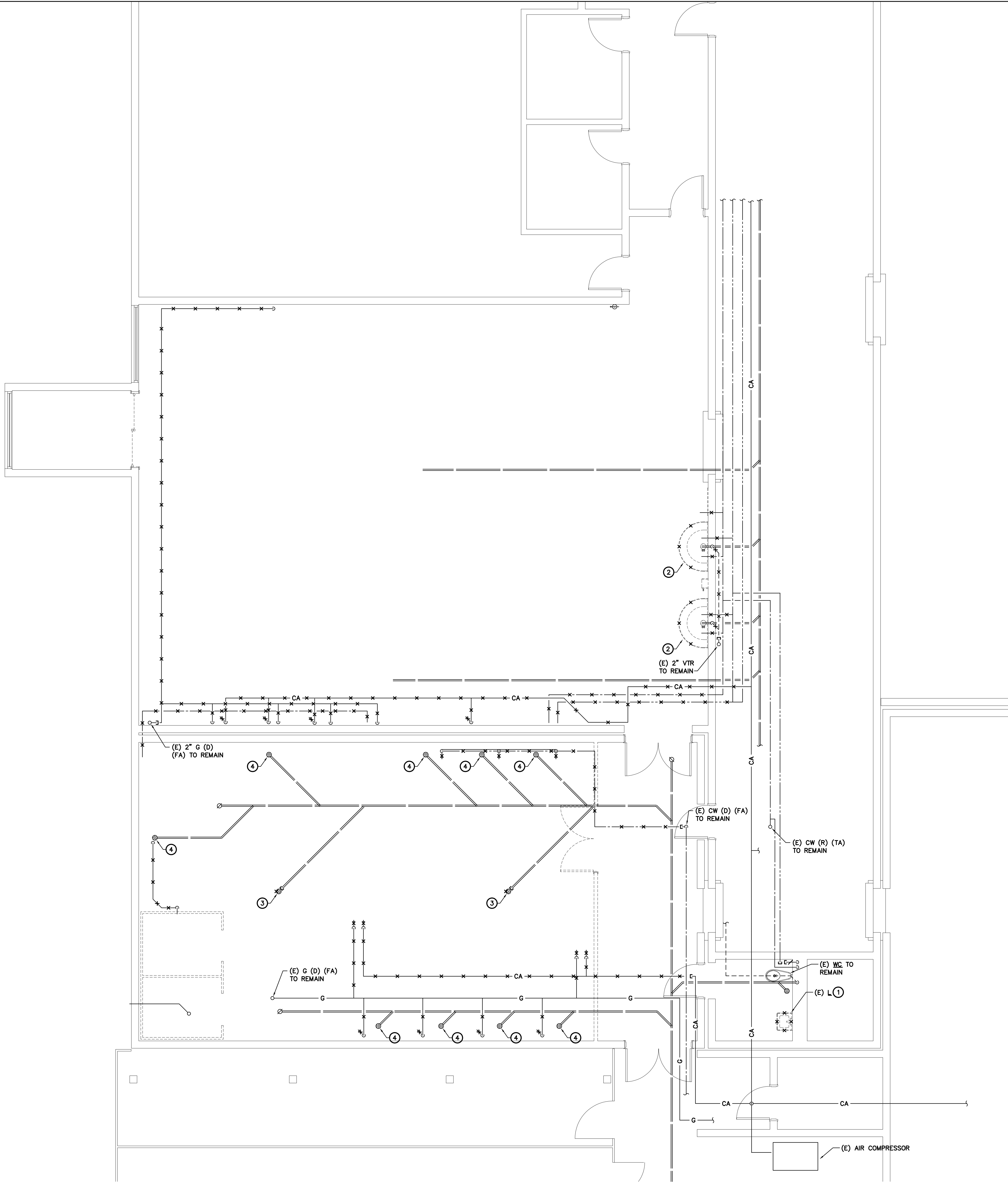
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PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE													
ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4" x 18-1/8" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "JAY R. SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
	S-1	SINK COUNTER MOUNTED HOT & COLD WATER	"TABC0" MODEL 7-PS-25 WALL HUNG SINK 24" FRONT TO BACK, 20" WIDE x 5" DEPTH OVERALL. HEAVY GAUGE 304 STAINLESS STEEL, WALL HUNG. PROVIDE REAR DRAIN LOCATION, VANDAL RESISTANT BACKING PLATE AT FAUCET FOR VANDAL RESISTANT PINS.	PROVIDE "TABC0" 6" EXTENDED DECK MOUNTED GOOSENECK FAUCET WITH WRIST HANDLES. PROVIDE PROVIDE DECK MOUNTED LIQUID SOAP DISPENSER. AERATOR. PROVIDE 1.0 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"TABC0" MODEL 7-PS-10, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	"POWERS" 115VS SERIES THERMOSTATIC FAUCET, AERATOR WITH 1.0 GPM VANDAL RESISTANT OUTLET. ADA COMPLIANT. SET MAXIMUM HOT WATER TEMP TO 105 DEGRESS F.	1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
	S-2	SINK WALL MOUNTED HOT & COLD WATER	"JUST" MODEL CUSTOM WALL HUNG WASH-UP MULTI-STATION SINK SIMILAR TO "JUST" J-9620, ADA COMPLIANT. 20" FRONT TO BACK, 96" WIDE, 8" DEEP. PROVIDE JWP-1236 FLAT PANEL WALL GUARD. COORDINATE HOLE LOCATION WITH MANUFACTURER TO FIT 3 FAUCETS	"JUST" MODEL JSL-48-TAI LEAD FREE COMPLIANT FAUCET WITH SOAP DISH. PROVIDE WITH 6" WRIST BLADES AND VANDAL RESISTANT HANDLES AND 1.5GPM RESTRICTING AERATORS. PROVIDE 3 FAUCETS FOR EACH SINK	"JUST" MODEL J-ADA-35-SSF , OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.		1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
	EW	EMERGENCY EYES/FACE WASH ACCESSIBLE	"HAWS" MODEL 7360BTWC, EYE/FACE WASH 10GPM, PROVIDE TMV 9201EW	INTEGRAL	PROVIDE ACCESSIBLE P-TRAP AND ACCESS PANEL	PROVIDE THERMOSTATIC MIXING VALVE. SET POINT 85F WITH HIGH TEMPERATURE LIMIT AT 90F. SEE INSTALLATION INSTRUCTIONS FOR CONNECTION POINTS AND OTHER INFORMATION.	1 1/2"	2"	2"	3/4"	1/2"	3/4"	1/2"
	HB	HOSE BIBB	INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF WOODFORD MODEL 24PC, OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	HR	HOSE REEL	"REELCRAFT" MODEL RS7850 REELSAFE HOSEREEL OR EQUAL										
	GO	GAS OUTLET	"BRASSCRAFT" TBV12F FULL-PORT GAS BALL VALVE; HEAVY DUTY FORGED BRASS BODY; QUARTER TURN, FULL FLOW OPERATION; 3/4" FIP x 3/4" FIP			PROVIDE 12" "BRASSCRAFT" CSSB FLEXIBLE GAS APPLIANCE CONNECTION							
NOTES:						2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.							
1. WATER SUPPLIES AND STOPS (REFER TO SPECIFICATION SECTION OR 22 40 00)													
A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.													
B. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THREADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LOOSE KEY. PROVIDE COMBINATION FIXTURES WITH COMPRESSION STOP AND IPS INLET ON EACH WATER SUPPLY FITTING. PROVIDE LOOSE KEY HANDLE FOR EACH STOP.													
C. PROVIDE 1/2 INCH RISER TUBES WITH REDUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED.													

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PLUMBING DEMOLITION PLAN

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

1
P2010

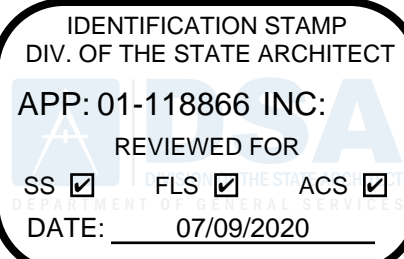
GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, SIZES, ROUTING, AND INVERTS OF ALL PIPING PRIOR TO CONSTRUCTION.
2. SEE SHEET P0001 FOR ADDITIONAL NOTES.

DEMOLITION KEYNOTES:

- ① EXISTING LAVATORY (L) TO BE REMOVED AND REPLACED WITH NEW. ADJUST EXISTING PIPING TO ACCOMMODATE NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT FIXTURE.
- ② EXISTING SINK (S) TO BE REMOVED AND REPLACED WITH NEW. ADJUST EXISTING PIPING TO ACCOMMODATE NEW ROUGH-IN REQUIREMENTS OF REPLACEMENT FIXTURE.
- ③ EXISTING FLOOR DRAIN (FD) TO BE REMOVED. PLUG OPENING AND ABANDON PIPE BELOW FLOOR.
- ④ EXISTING FLOOR DRAIN (FD) TO REMAIN.

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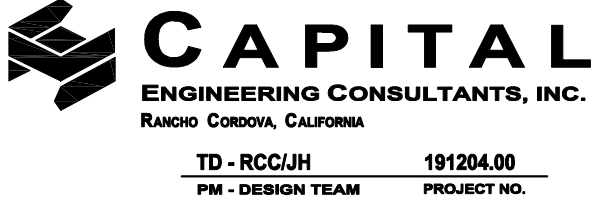
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ISSUES		
No.	DESCRIPTION	DATE

CONSULTANTS



SEAL

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PROJECT
L-1177 Industrial Trades Labs
Renovation
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO
121030

DRAWN BY:
RCC/JH

CHECKED BY
TD

PROJECT MGR:
ARCHITECTURA

APPROVED BY:
Approver

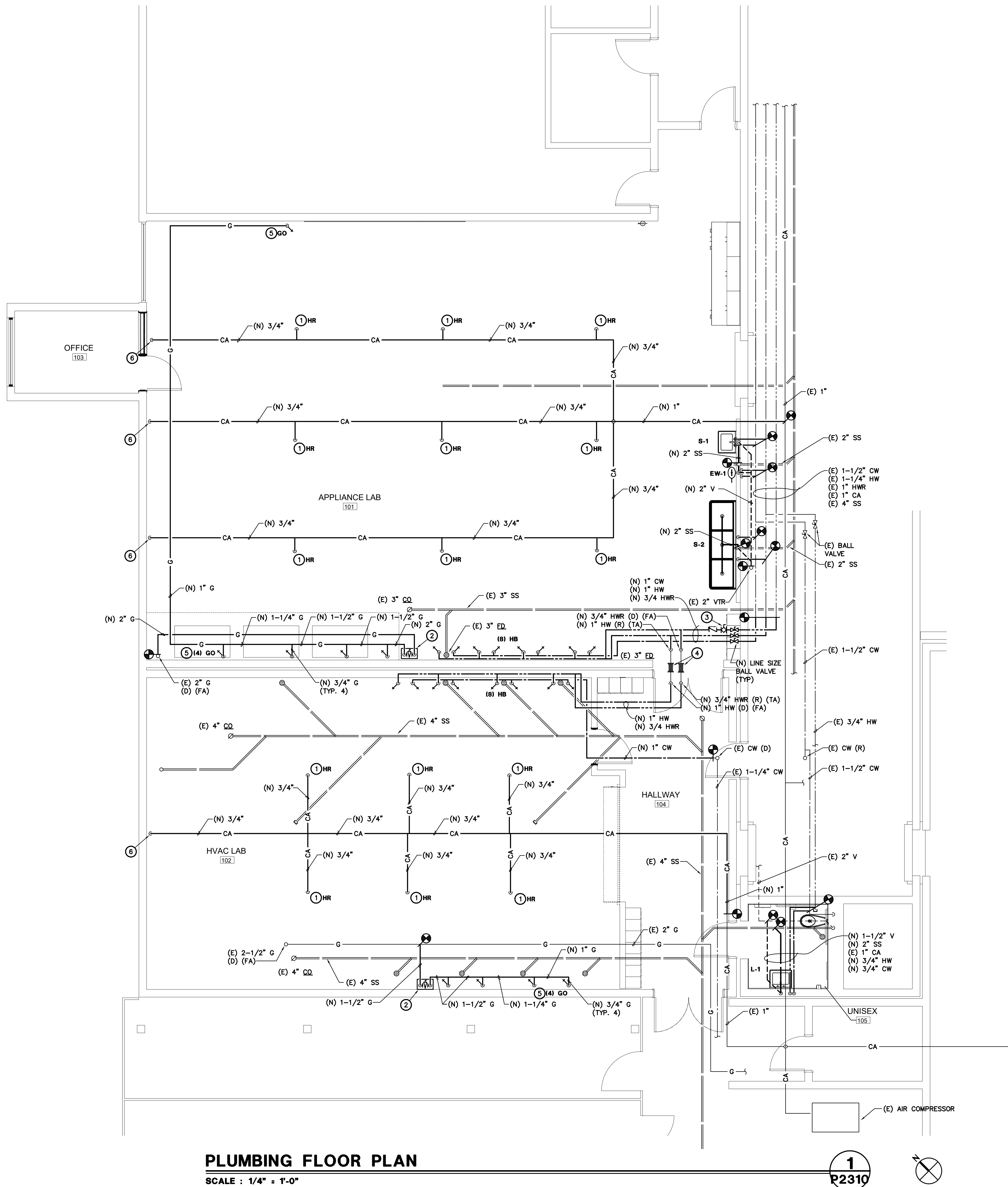
SHEET TITLE
PLUMBING
DEMOLITION PLAN

SHEET NUMBER

P2010

ISSUE

QC	
INI	%



PLUMBING FLOOR PLAN

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

1
R2310

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS, SIZES, ROUTING, AND INVERTS OF ALL PIPING PRIOR TO CONSTRUCTION.
2. SEE SHEET P0001 FOR ADDITIONAL NOTES.

KEYNOTES:

- 1 HOSE REEL, FOR DETAIL SEE 1/P0001
- 2 GAS SHUT-OFF VALVE BOX, FOR DETAIL SEE 2/P0001
- 3 CALIBRATED BALANCE VALVE, SET TO 0.125 GPM.
- 4 "METRALFLEX" METRALOOP MODEL MLSUPC80 FLEXIBLE SEISMIC JOINT ON ROOF. PROVIDE ANCHORS AS RECOMMENDED BY MANUFACTURER.
- 5 PROVIDE LINE SIZE GAS SHUT OFF, ON, AND 6" DIR' LEG AT EACH GAS OUTLET.
- 6 DRIP LEG AT END OF COMPRESSED AIR MAIN, FOR DETAIL SEE 3/P0001

An identification stamp from the Division of the State Architect. The stamp is rectangular with rounded corners and a black border. It contains the following text: "IDENTIFICATION STAMP" at the top, "DIV. OF THE STATE ARCHITECT" below it, "APP: 01-118866 INC:" in the center, "REVIEWED FOR" below that, and a row of three checkboxes labeled "SS", "FLS", and "ACS", all of which are checked. Below the checkboxes is the date "DATE: 07/09/2020".

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CONSULTANTS

CAPITAL
ENGINEERING CONSULTANTS, INC.
RACON CORPORA, CLIFTON

TD - RCU/HM 1/1/2009
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED: 06/30/2020

SEAL

PRIME CONSULTANT

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PROJECT
L-1177 Industrial Trades Lab
Renovation
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO: 121030	
DRAWN BY: RCC/JH	CHECKED BY: TD
PROJECT MGR: ARCHITECTURAL	APPROVED BY: Approver

SHEET TITLE
PLUMBING FLOOR
PLAN

SHEET NUMBER	ISSUE
P2310	

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL. PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
15. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
16. FROM ALL NEW FLUSH MOUNT PANELS, THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
17. CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK, DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
18. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
19. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE (E) CONDUIT WHERE POSSIBLE.
20. WHERE IT IS NOT POSSIBLE TO REUSE (E) CONDUIT OR RUN (N) CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
21. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO (E) UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO (E) UNDERGROUND SYSTEMS AS A RESULT OF (N) WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
23. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
24. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL GLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
25. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ELECTRICAL ENGINEER BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ENGINEER. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ENGINEER. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ENGINEER WILL BE MADE.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

	FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED		DETAIL NOTE REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME DETAIL																																																																																																																																																																																																
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	CONDUIT - BELOW SLAB OR UNDERGROUND; 3/4" MIN																																																																																																																																																																																																						
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	CONDUIT CONTINUATION																																																																																																																																																																																																						
	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.																																																																																																																																																																																																						
	WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED																																																																																																																																																																																																						
	WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT																																																																																																																																																																																																						
	VOICE/DATA OUTLET - FLOOR MOUNTED																																																																																																																																																																																																						
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	INTERIOR SPEAKERS WALL MOUNTED																																																																																																																																																																																																						
	2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **																																																																																																																																																																																																						

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA 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 2019 CBC, SECTION 1617A.1.16 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 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. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

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

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #.

APPLICABLE CODES & STANDARDS

- CODES:**
- 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
 - 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
 - 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
 - 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
 - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
 - NATIONAL FIRE ALARM CODE (NFPA 72) 2019.
- STANDARDS:**
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
 - UNDERWRITER LABORATORIES (UL)
 - CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

- | | |
|-------|---|
| E0.1 | SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX. |
| E0.2 | CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR. |
| E1.1 | ELECTRICAL SINGLE LINE DIAGRAM & PANELBOARD SCHEDULES. |
| E2.1 | ELECTRICAL SITE PLAN. |
| E3.1 | ELECTRICAL DEMOLITION PLAN. |
| E4.1 | POWER PLAN. |
| E5.1 | LIGHTING PLAN & LIGHT FIXTURE SCHEDULE. |
| E6.1 | ELECTRICAL DETAILS. |
| E6.2 | ELECTRICAL DETAILS. |
| FA0.1 | FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES. |
| FA1.1 | FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP CALCULATIONS. |
| FA2.1 | FIRE ALARM SITE PLAN. |
| FA4.1 | FIRE ALARM PLAN. |

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-118866 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/09/2020

CLIENT
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET MARTINEZ, CA

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ISSUES

No.	DESCRIPTION	DATE
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PROJECT
L-1177 Industrial Trades Labs Renovation
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:
121030

DRAWN BY:
CADD

CHECKED BY:
NA

PROJECT MGR:
ARCHITECTURAL

APPROVED BY:
Approver

SHEET TITLE
SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX

SHEET NUMBER
E0.1

ISSUE

C. COMPLIANCE RESULTS										
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.										
	Allowed Lighting Power per §140.6(a) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)		Compliance Results		
Lighting in conditioned and unconditioned spaces must be combined for compliance per §140.6(b).	01	02	03	04	05	06	07	08	09	
Complete Building §140.6(c)(1)	Area Category §140.6(c)(2)	Area Category Additional §140.6(c)(2)+	Tailored §140.6(c)(3) (+)	=	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)(2) (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	2,415.1	≥ 2,345.1		=	2,345.1	COMPLIES
Conditioned:		2,415.1		=		≥ 2,345.1		=		
Unconditioned:				=		≥		=		
Table Continued										

STATE OF CALIFORNIA			
Indoor Lighting			
NRCC-LTI-E (Created 11/19)		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: Vocational Labs	Report Page:	Page 4 of 7	
Project Address: 2700 East Lans Road, Pittsburg, CA 94565	Date Prepared:	06/30/2020	

1. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.						
Conditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment	
					Area Category	PAF
Vocational Lab 101	Classroom, Lecture, Training, Vocational	0.7	2,042	1,429.4	<input type="checkbox"/>	<input type="checkbox"/>
HVAC Lab 102	Classroom, Lecture, Training, Vocational	0.7	1,119	783.3	<input type="checkbox"/>	<input type="checkbox"/>
Hallway 104	Corridor	0.6	251	150.6	<input type="checkbox"/>	<input type="checkbox"/>
Office 103	Office (≤ 250 square feet)	0.7	74	51.8	<input type="checkbox"/>	<input type="checkbox"/>
TOTAL:			3,486	2,415.1	See Tables J or P for detail	


L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	
<i>This Section Does Not Apply</i>	

STATE OF CALIFORNIA			
Indoor Lighting			
NRCC-LTI-E (Created 11/19)		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: Vocational Labs		Report Page: 7 of 7	
Project Address: 2700 East Lans Road, Pittsburg, CA 94565		Date Prepared: 06/30/2020	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 11/19)	 CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	
Project Name: Vocational Labs	Report Page: NRCC-LTI-E-
Project Address: 2700 East Leland Road, Pittsburg, CA 94565	Date Prepared: Page 5 of 7 06/30/2020

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
This Section Does Not Apply		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019


¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(g)(4B) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

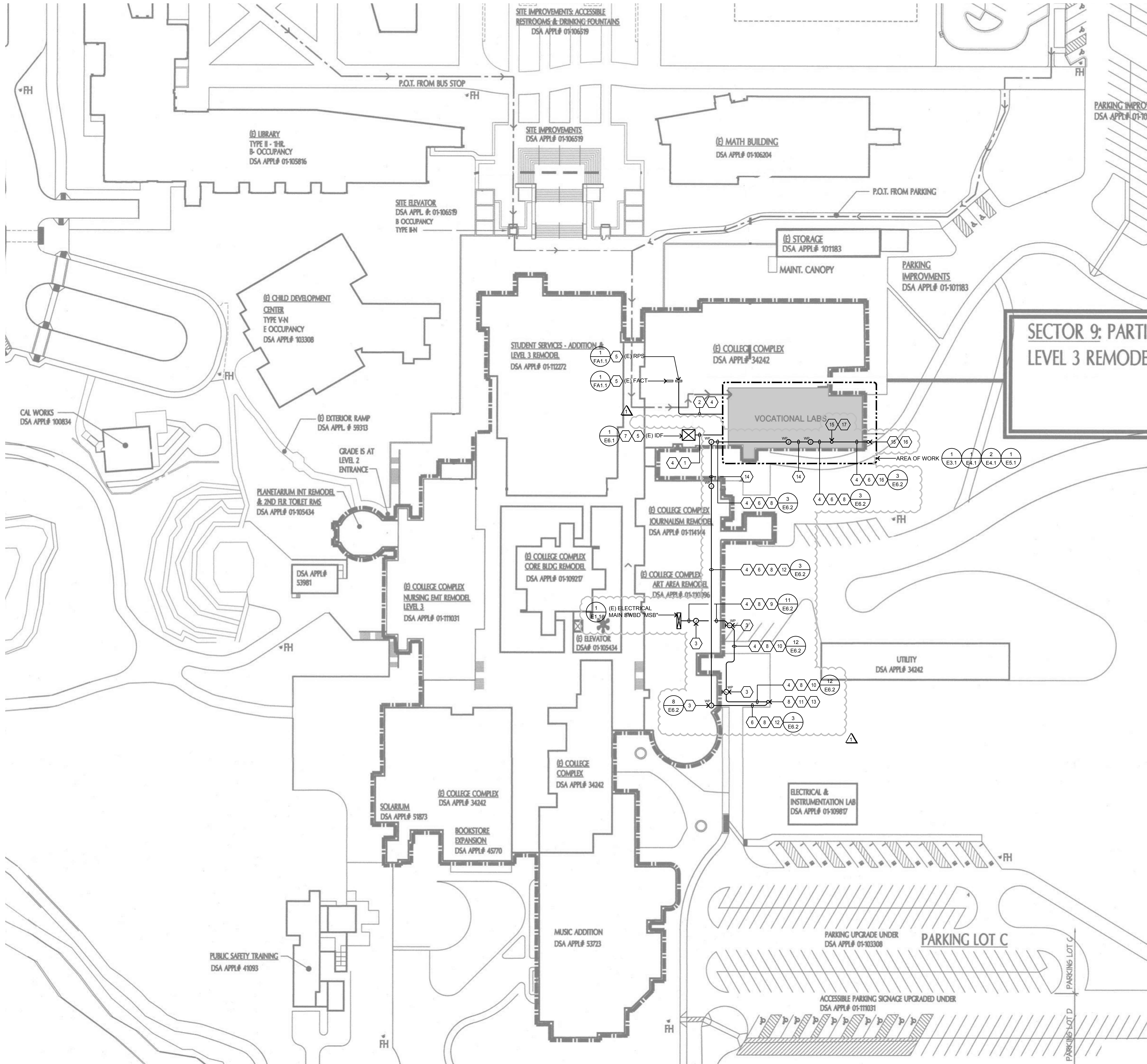
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)(1)	Pass	Fail
Appliance Lab 101	Classroom, Lecture, Training, Vocational	Auth. Personnel	Dimmer	Exempt*	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC Lab 102	Classroom, Lecture, Training, Vocational	Auth. Personnel	Dimmer	Exempt*	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hallway 104	Corridor	Manual ON/ OFF	Dimmer	Partial Off**	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Office 103	Office (≤ 250 square feet)	Manual ON/ OFF	Dimmer	Vacancy	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 11/19)	 CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	
Project Name: Vocational Labs	NRCC-LTI-E
Project Address: 2700 East Lans Road, Pittsburg, CA 94565	Page 6 of 7 Date Prepared: 06/30/2020

<input type="radio"/>	<input checked="" type="radio"/>	INRA-ENV-03-F: Must be submitted for daylighting design power adjustment factors (DAF).	<input type="checkbox"/>	<input type="checkbox"/>
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SCALE CHECK



- ### SHEET NOTES
1. PROVIDE & INSTALL (2) 2" C. FOR TELE/DATA CABLES. STUB (1) 2" C. AT PULLCAN IN EACH LAB. SEE E4.1 FOR LOCATION. SEAL ALL PENETRATIONS AS NECESSARY BETWEEN EXISTING IDF AND PULLCANS AT EACH LAB. CONTRACTOR SHALL PROVIDE & INSTALL MINIMUM (1) 24" SQ. x 8" DEEP NEMA 1 PULLCAN TO NOT EXCEED 360 DEGREES IN CONDUIT BENDS.
 2. PROVIDE & INSTALL (1) 1" C. FOR FIRE ALARM CABLES. STUB (1) 1" C. AT PULLCAN IN EACH LAB. SEE E4.1 FOR LOCATION. SEAL ALL PENETRATIONS AS NECESSARY BETWEEN EXISTING RPS AND PULLCANS AT EACH LAB. CONTRACTOR SHALL PROVIDE & INSTALL MINIMUM (1) 24" SQ. x 8" DEEP NEMA 1 PULLCAN TO NOT EXCEED 360 DEGREES IN CONDUIT BENDS.
 3. PROVIDE & INSTALL 32" SQ. x 8" DEEP NEMA 4 PULLCAN.
 4. CONTRACTOR SHALL X-RAY CONCRETE WALL/ROOF WHEN CORE DRILL PENETRATION ARE NECESSARY PRIOR TO ROUGH-IN. SEAL ALL PENETRATIONS AS NECESSARY.
 5. FIELD VERIFY EXACT LOCATION.
 6. ROUTE FEEDER ON ROOF.
 7. PROVIDE & INSTALL ADDITIONAL PATCH PANEL AS NECESSARY FOR ALL NEW CABLE CONNECTIONS.
 8. PROVIDE & INSTALL FEEDERS FOR DISTRIBUTION PANEL "LMLH" & PANEL "AHL". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR FEEDERS SIZE AND REQUIREMENTS.
 9. CONTRACTOR SHALL MOUNT NEW FEEDERS/CONDUITS AT INDOOR CEILING.
 10. CONTRACTOR SHALL MOUNT NEW FEEDERS/CONDUITS ALONG EXTERIOR WALL.
 11. CONTRACTOR SHALL MOUNT NEW FEEDERS/CONDUITS VIA EXISTING CHASE TO ROOF. SUPPORT AS NECESSARY PER CEC/NEC REQUIREMENTS.
 12. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING ROOF CONDUITS/PIPES. FIELD COORDINATE ROUGH-IN PRIOR TO INSTALL.
 13. CONTRACTOR SHALL FLEX SEAL WATERTIGHT WHERE NECESSARY. INSTALL SHALL BE CEC/NEC COMPLIANT.
 14. CONTRACTOR SHALL PROVIDE & INSTALL PULLCANS AND FLEX CONDUIT BETWEEN WHERE SEISMIC TRANSITIONS OCCUR. INCLUDE MINIMUM (2) PULLCANS.
 15. SEE 1/E4.1 FOR CONTINUATION.
 16. PROVIDE & INSTALL FEEDERS FOR DISTRIBUTION PANEL "LMLH". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR FEEDERS SIZE AND REQUIREMENTS.
 17. PROVIDE & INSTALL FEEDERS FOR PANEL PANEL "AHL". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR FEEDERS SIZE AND REQUIREMENTS.

GENERAL NOTE:
SEAL ALL INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY.

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ISSUES

No.	DESCRIPTION	DATE
ADDENDUM 1		03/11/2021

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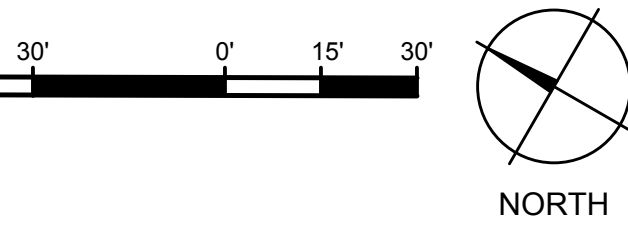
PROJECT NO:
121030
DRAWN BY:
CADD
PROJECT MGR:
ARCHITECTURAL
SHEET TITLE
ELECTRICAL SITE PLAN

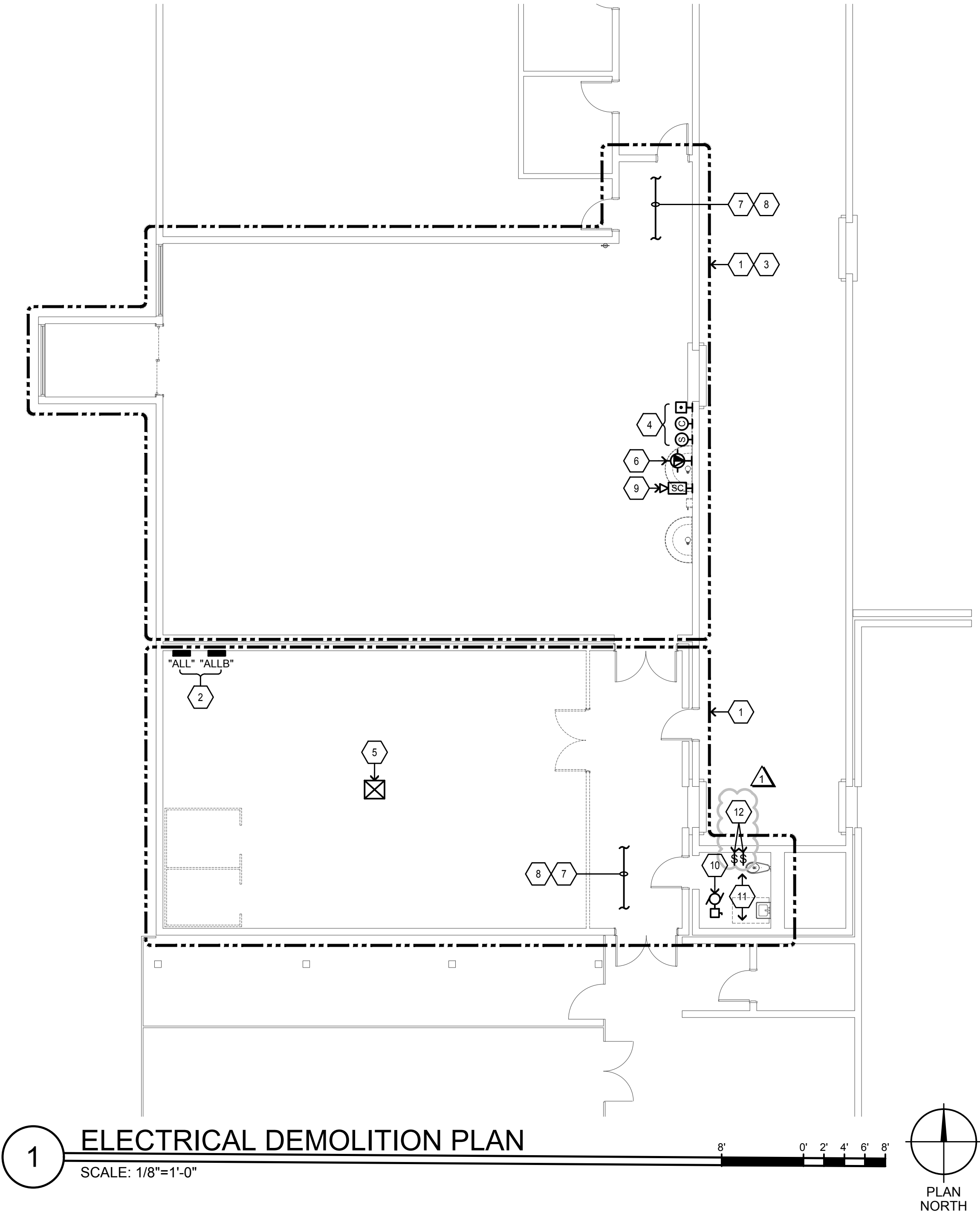
CHECKED BY:
NA
APPROVED BY:
Approver

SHEET NUMBER
AD1-E2.1
ISSUE

1 ELECTRICAL SITE PLAN

SCALE: 1"=30'-0"





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

SHEET NOTES

- UNLESS OTHERWISE NOTED, DEMOLISH PER GENERAL DEMOLITION NOTES.
- EXISTING ELECTRICAL PANELS TO REMAIN. CONTRACTOR SHALL PROTECT DURING DEMOLITION WORK.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND REMOVE LIGHT FIXTURES AND PRESERVE. JUNCTION BOXES WITH ASSOCIATED CONNECTIONS/CIRCUITS/CONDUITS FOR REUSE UNDER NEW WORK. NEW LIGHT FIXTURES ARE TO BE INSTALL AT SAME LOCATION AS EXISTING. SEE NEW WORK FOR REQUIREMENTS.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE PA/CLOCK SYSTEM FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR LOCATION AND REQUIREMENTS.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE CEILING MOUNTED PROJECTOR FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE WIFI ROUTER FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR LOCATION AND REQUIREMENTS.
- PER GENERAL DEMOLITION NOTES; PRESERVE FIRE ALARM INITIATION AND NOTIFICATION CIRCUITS/CONDUITS FOR REUSE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.
- EXISTING FIRE ALARM INITIATION AND NOTIFICATION DEVICES NOT IN SCOPE OF WORK SHALL REMAIN ACTIVE AND FULLY FUNCTIONAL. SEE NEW WORK FOR REQUIREMENTS.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE SECURITY CAMERA FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR LOCATION AND REQUIREMENTS.
- EXHAUST FAN IS EXISTING TO REMAIN.
- LIGHT FIXTURES ARE EXISTING TO REMAIN.
- PER GENERAL DEMOLITION NOTES; DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES AND PRESERVE ASSOCIATED CONNECTION FOR REUSE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
- ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK. MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

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ISSUES

No.	DESCRIPTION	DATE
1	ADDENDUM 1	03/11/2021

CONSULTANTS



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ENGINEERS
MONTEREY BAY, INC.

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PROJECT

VOCATIONAL LABS
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:

121030

DRAWN BY:

CADD

PROJECT MGR:

ARCHITECTURAL

CHECKED BY:

NA

APPROVED BY:

Approver

SHEET TITLE

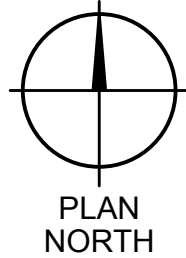
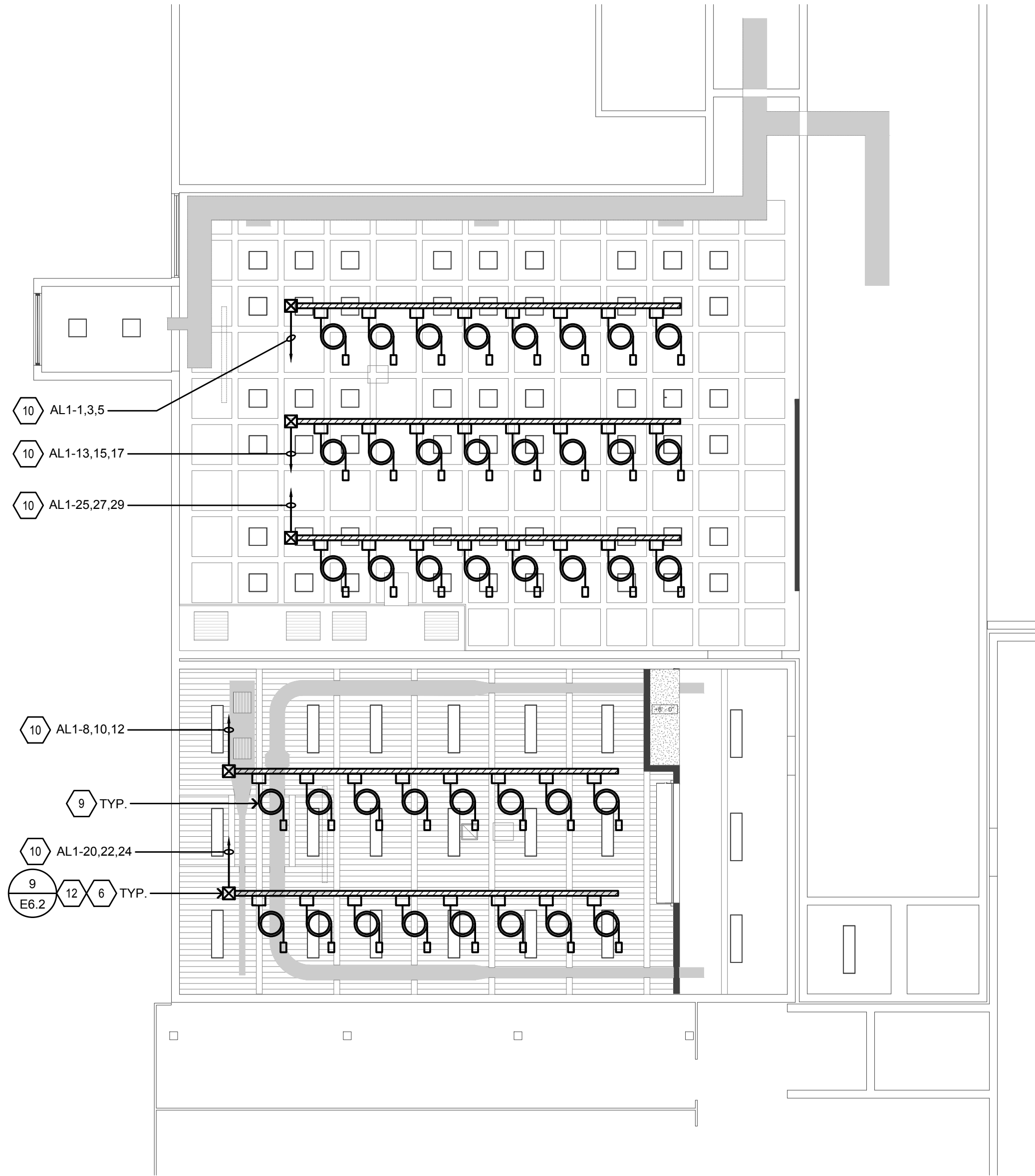
ELECTRICAL
DEMOLITION PLAN

SHEET NUMBER

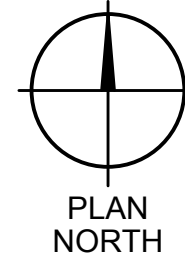
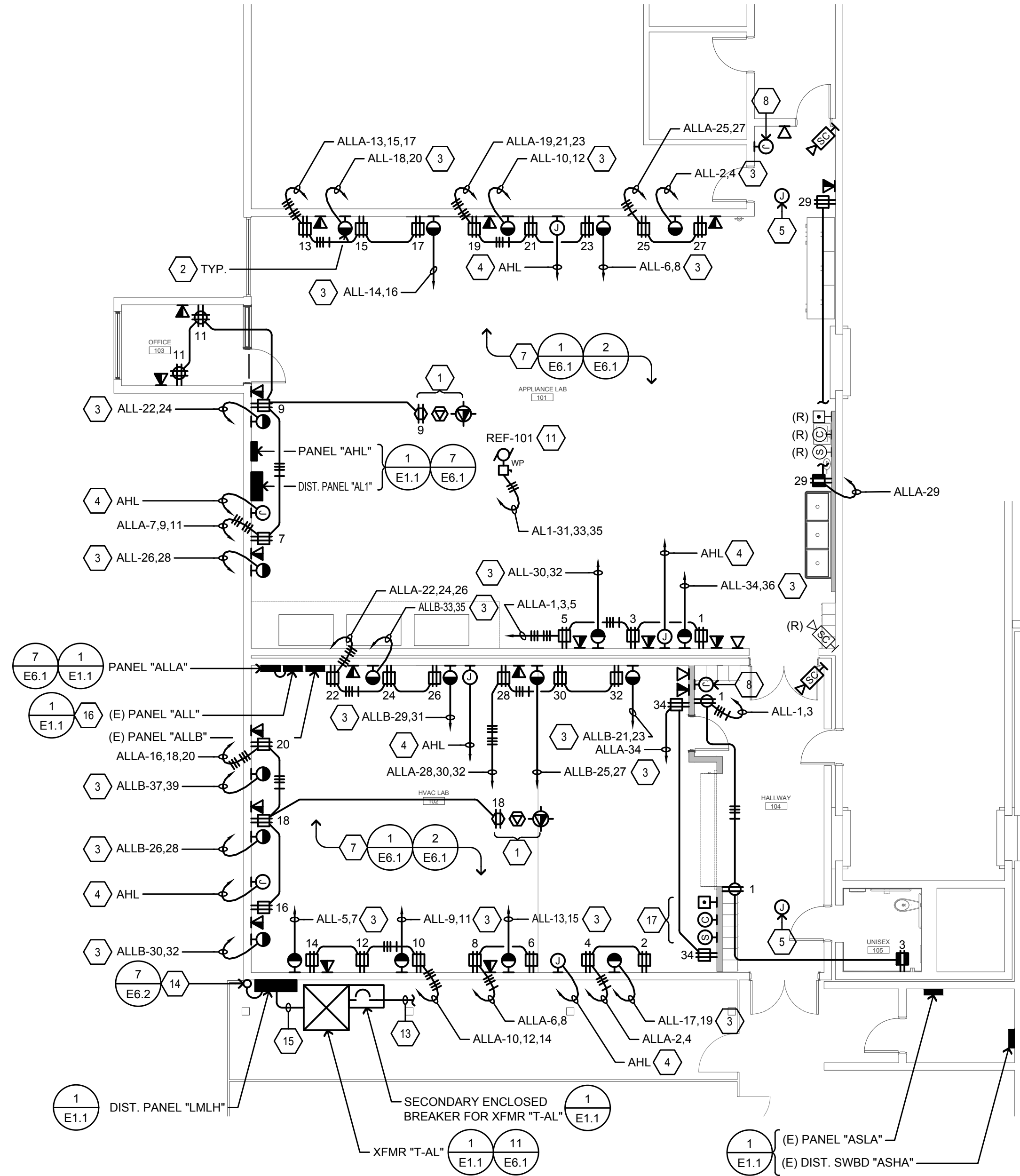
AD1-E3.1

ISSUE

2 POWER PLAN - BUSWAY SYSTEM
SCALE: 1/8"=1'-0"



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



SHEET NOTES

- FOR CEILING MOUNTED PROJECTOR, CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH ARCHITECT/DISTRICT.
- NEMA TYPE RECEPTACLE: 30A, 208V, 1Ø. CONTRACTOR SHALL VERIFY WITH ARCHITECT/DISTRICT FOR EXACT REQUIREMENTS.
- ½" C, 2 #10 & 1 #10 GND.
- PROVIDE & INSTALL 1" C.O. AND STUB INTO ELECTRICAL PANEL FOR FUTURE CONNECTION.
- FOR INTERCEPTION OF EXISTING FIRE ALARM NOTIFICATION AND INITIATION CIRCUITS, PROVIDE & INSTALL 8" SQ. x 4" DEEP NEMA 1 PULLCAN FOR FIRE ALARM, COORDINATE WITH FIRE ALARM CONTRACTOR FOR EXACT LOCATION.
- PROVIDE & INSTALL 1/2" BUSWAY SYSTEM, 225A, 120/208V, 3Ø, 4 WIRE STARLINE TRACK (BUSWAY 225T3 SERIES, CONTRACTOR SHALL ENSURE BUSWAY IS PROVIDED WITH PROVISIONS FOR MINIMUM (6) 30A, 208V, 3Ø CONNECTIONS ALONG BUSWAY SPACED OUT ALONG THE 32 FEET, NOT IN ONE CENTRAL LOCATION.
- ALL CONDUITS AND BOXES ARE TO BE EXPOSED. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS FOR PAINT/FINISH OF EXPOSED CONDUITS/BOXES. FIELD COORDINATE MOUNTING HEIGHT FOR ALL WALL MOUNTED RECEPTACLES WITH DISTRICT/ARCHITECT.
- 24" SQ. x 6" DEEP NEMA 1 PULLCAN FOR TELE/DATA CABLES. PROVIDE & INSTALL (1) 2" C. BACK TO EXISTING IDF FROM PULLCAN FOR CABLING.
- PROVIDE & INSTALL 15' CORD REEL, 12 AWG, 20 AMP, 120V WITH (2) GFCI DUPLEX RECEPTACLES, BACK TO BACK. CORD REEL SHALL BE COMPATIBLE WITH BUSWAY SYSTEM.
- 2" C, 4 #10 & 1 #6 GND.
- EXHAUST FAN, 1 HP, 208V, 3Ø, LOCATED ON ROOF.
- INSTALL BUSWAY SYSTEM BETWEEN LIGHT FIXTURES ROWS. COORDINATE WITH LIGHTING PLANS.
- PROVIDE & INSTALL FEEDER TO DISTRIBUTION PANEL "AL1". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- PROVIDE & INSTALL FEEDER TO EXISTING ELECTRICAL MAIN SWITCHBOARD "MSB". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS. SEE 1/E2.1 FOR CONTINUATION.
- PROVIDE & INSTALL FEEDER TO TRANSFORMER "T-AL". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- PROVIDE & INSTALL FEEDER TO PANEL "ALLA". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- PA/CLOCK SYSTEM, CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH ARCHITECT/DISTRICT.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #10 GND.

NOTE:
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

GENERAL NOTES:

- WHERE GFCI RECEPTACLES ARE INSTALLED THE GROUND-FAULT CIRCUIT-INTERRUPTER SHALL BE INSTALLED READILY ACCESSIBLE LOCATION.
- UNLESS OTHERWISE NOTED, ALL GENERAL 20 AMP, 120V RECEPTACLES SHALL BE GFCI TYPE.
- SEAL ALL INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER'S FOR EXACT ELECTRICAL CONNECTIONS/NEMA TYPE RECEPTACLES. PROVIDE & INSTALL MATCHING PLUG FOR EQUIPMENT AND RECEPTACLE TO MATCH.
- ALL SURFACE MOUNTED BOXES SHALL BE METAL BOXES WITH EMT/RIGID CONDUIT FOR POWER/TELECOM DEVICES.
- CONTRACTOR SHALL X-RAY CONCRETE WALL WHEN CORE DRILL PENETRATION ARE NECESSARY PRIOR TO ROUGH-IN. SEAL ALL PENETRATIONS AS NECESSARY.

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ISSUES

No.	DESCRIPTION	DATE
ADDENDUM 1		03/11/2021

CONSULTANTS



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Project No. 15598.00

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SEAL

PRIME CONSULTANT



PROJECT

VOCATIONAL LABS
2700 EAST LELAND ROAD
PITTSBURG, CA 94565

PROJECT NO:
121030

DRAWN BY:
CADD

PROJECT MGR:
ARCHITECTURAL

SHEET TITLE

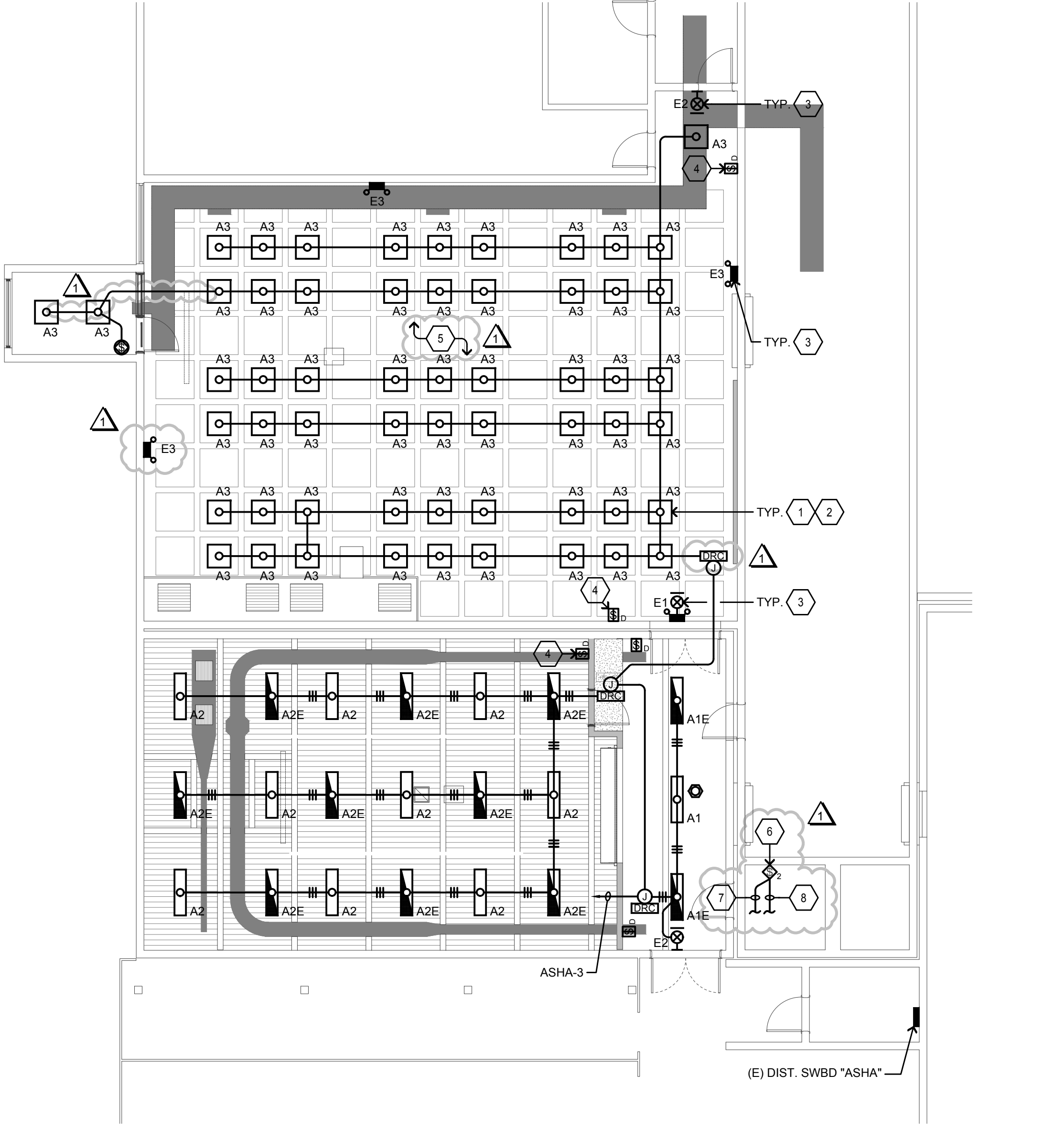
POWER PLAN

SHEET NUMBER

AD1-E4.1

ISSUE

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



- SHEET NOTES
1. PROVIDE & INSTALL NEW LIGHT FIXTURE AT EXISTING LIGHT FIXTURE LOCATION REMOVED DURING DEMOLITION WORK.

2. RECONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT/CONDUIT/JUNCTION BOX PRESERVED DURING DEMOLITION WORK.

3. CONNECT TO LIGHTING CIRCUIT UNSWITCHED HOT SERVING SAME SPACE.

4. PROVIDE & INSTALL LOCKABLE CLEAR ENCLOSURE WITH KEY.

5. CORE THROUGH CONCRETE WAFFLE CEILING FOR ROUTE OF CONDUITS. COORDINATE WITH STRUCTURAL FOR X-RAY OF CONCRETE CEILINGS/WALLS.

6. PROVIDE & INSTALL NEW SWITCH AND RECONNECT TO EXISTING CABLES PRESERVED DURING DEMOLITION. INSTALL NEW SWITCH IN SAME LOCATION OF EXISTING SWITCH BEING REMOVED DURING DEMOLITION WORK.

7. CONNECT/CONTROL EXISTING LIGHT FIXTURE IN SPACE.

8. CONNECT/CONTROL EXISTING EXHAUST FAN IN SPACE.

- LIGHT FIXTURE SCHEDULE
- FIXTURE NOTES:

1. ALL LED LIGHT FIXTURE DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.

2. ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500" K, 80 CRI MINIMUM, U O N. (SEE SPECIFICATIONS FOR MORE INFORMATION).

3. ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.

4. EXIT SIGNS, EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.

5. ALL RECESSED LIGHT FIXTURES SHALL BE U.L. APPROVED FOR ZERO CLEARANCE INSULATION COVER WHEN INSTALLED IN INSULATED CEILINGS.

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	MOUNTING
A1	1' x 4' SURFACE LED FIXTURE, FROSTED RIBBED ACRYLIC DIFFUSERS, 0-10V DIMMING DRIVER, 277V, FINISH PER ARCHITECT.	26.7W LED 3000 LUMENS	H.E. WILLIAMS HES SERIES	2 E6.2
A1E	SAME AS FIXTURE TYPE "A1" EXCEPT WITH ADDITIONAL EMERGENCY BATTERY BACK-UP.	26.7W LED 3000 LUMENS	H.E. WILLIAMS HES SERIES	2 E6.2
A2	1' x 4' SURFACE LED FIXTURE, 0-10V DIMMING DRIVER, 277V, FINISH PER ARCHITECT.	41.6W LED 6300 LUMENS	H.E. WILLIAMS 80 LED SERIES	2 E6.2
A2E	SAME AS FIXTURE TYPE "A2" EXCEPT WITH ADDITIONAL EMERGENCY BATTERY BACK-UP.	41.6W LED 6300 LUMENS	H.E. WILLIAMS 80 LED SERIES	2 E6.2
A3	SAME AS FIXTURE TYPE "A1" EXCEPT 2' x 2'.	26.6W LED 3000 LUMENS	H.E. WILLIAMS HES SERIES	1 E6.2
E1	EXIT SIGN AND EMERGENCY LIGHTING WITH 2-HEAD LED LAMPS, THERMOPLASTIC HOUSING, SPECTRON SELF-TESTING, FULLY ADJUSTABLE LAMPS, 277V, FINISH PER ARCHITECT.	FURN. WITH FIXTURE	DUAL LITE LT SERIES	WEIGHT: LESS THAN 15 LBS.
E2	SAME AS FIXTURE TYPE "E1" EXCEPT WITHOUT LAMP HEADS.	FURN. WITH FIXTURE	DUAL LITE LT SERIES	WEIGHT: LESS THAN 15 LBS.
E3	EMERGENCY LIGHT WITH 2-HEAD LED LAMPS, SURFACE MOUNTED, PLASTIC HOUSING, EMERGENCY BATTERY CHARGER AND TESTER, SELF-TESTING, FULLY ADJUSTABLE LAMPS, 277V, FINISH PER ARCHITECT.	FURN. WITH FIXTURE	DUAL LITE LZ SERIES	WEIGHT: LESS THAN 15 LBS.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #10 GND.

NOTE:

CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

- GENERAL NOTES:
- A. LIGHTING CONTROL SYSTEM ALONG PATH OF EGRESS SHALL BE PROGRAMMED TO MAINTAIN A MINIMUM OF 1 F.C.

B. MANUAL AREA CONTROLS CONTROLLING LIGHTING FOR PATH OF EGRESS SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED PERSONNEL.

C. CONTRACTOR SHALL PROVIDE & INSTALL ½"C. FROM ROOM CONTROLLER TO EACH DEVICE IN SPACE CONNECTED TO ROOM CONTROLLER MODULE (SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSOR, ETC.).

D. SEE E6.2 FOR LIGHT FIXTURE CONTROLS.

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ISSUES

No.	DESCRIPTION	DATE
ADDENDUM 1		03/11/2021

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REGISTERED PROFESSIONAL ENGINEER
No. 121081
Exp. 3/31/23
MONTEREY BAY, CALIFORNIA

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PROJECT NO:
121030

DRAWN BY:
CADD

CHECKED BY:
NA

PROJECT MGR:
ARCHITECTURAL

APPROVED BY:
Approver

SHEET TITLE

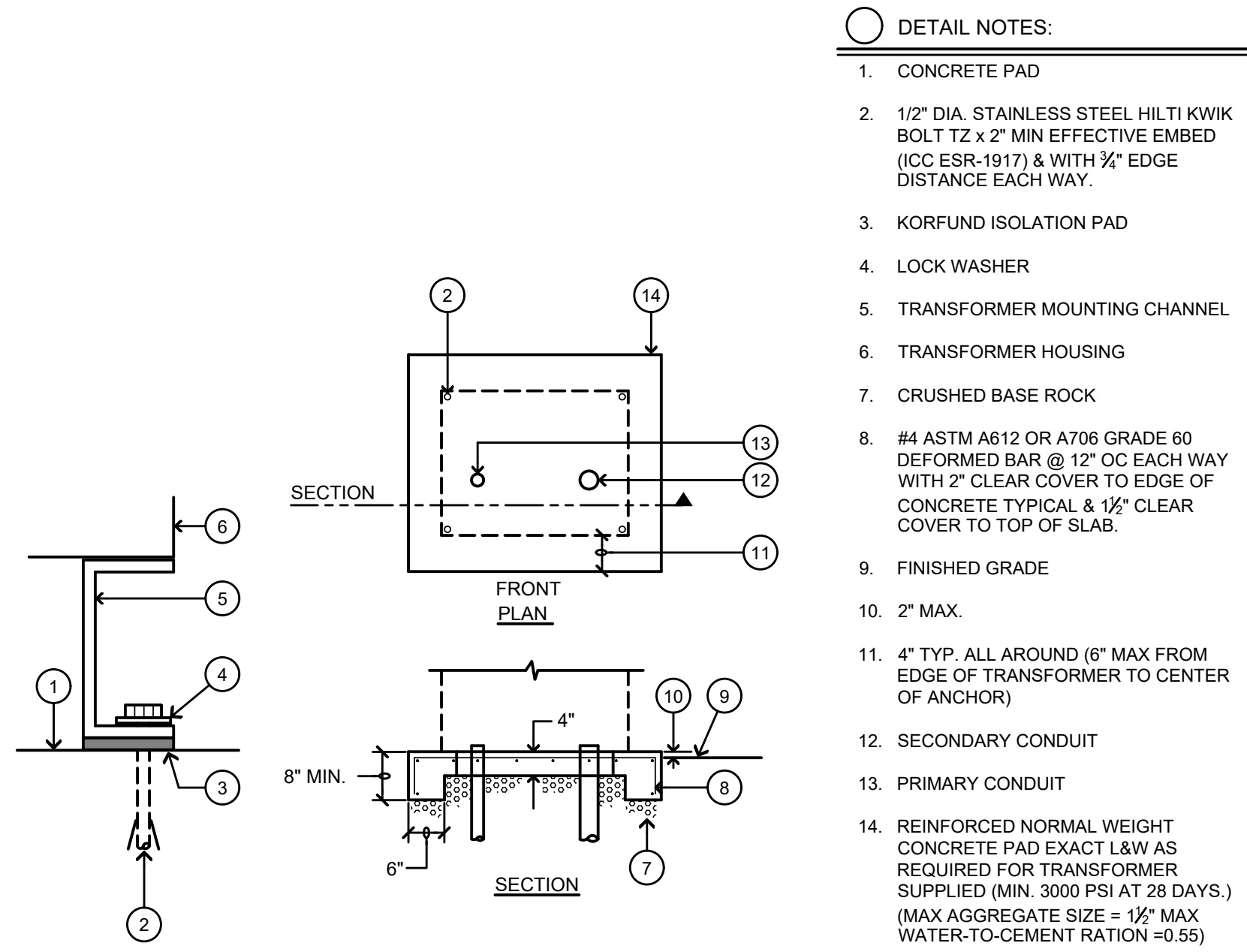
LIGHTING PLAN & LIGHT
FIXTURE SCHEDULE

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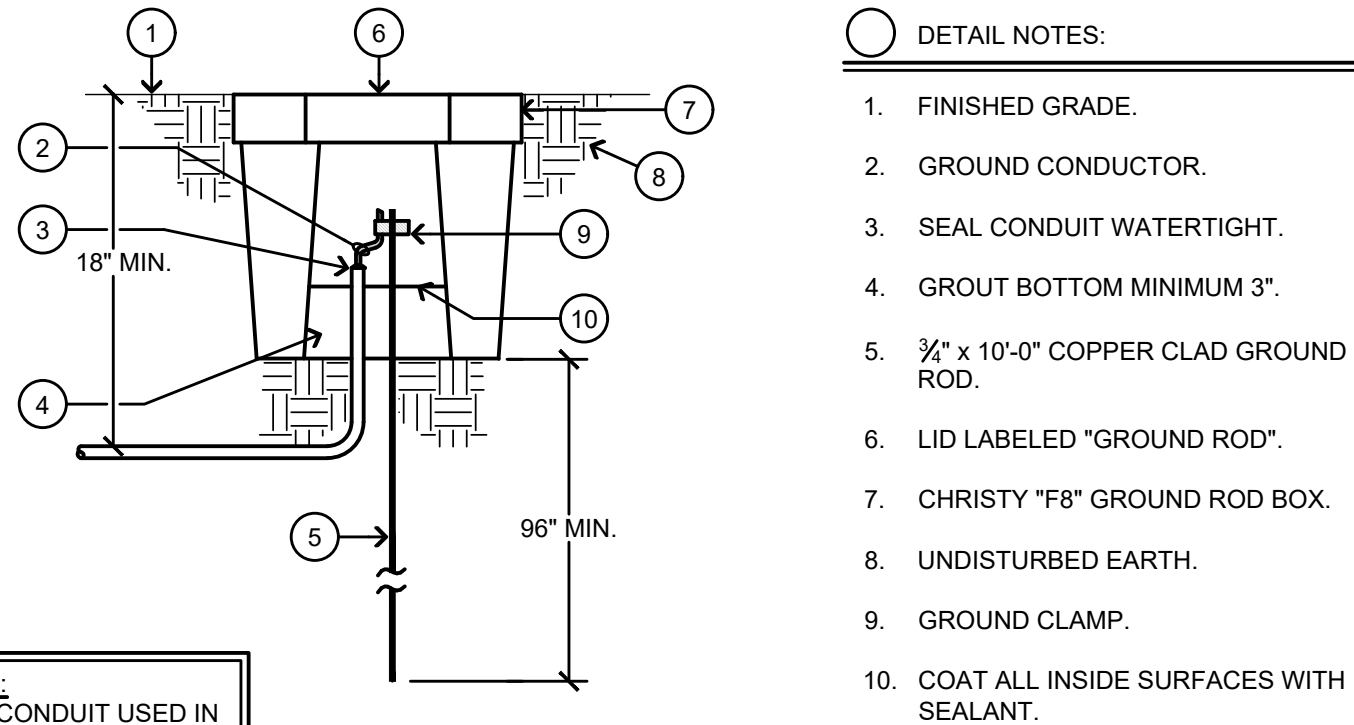
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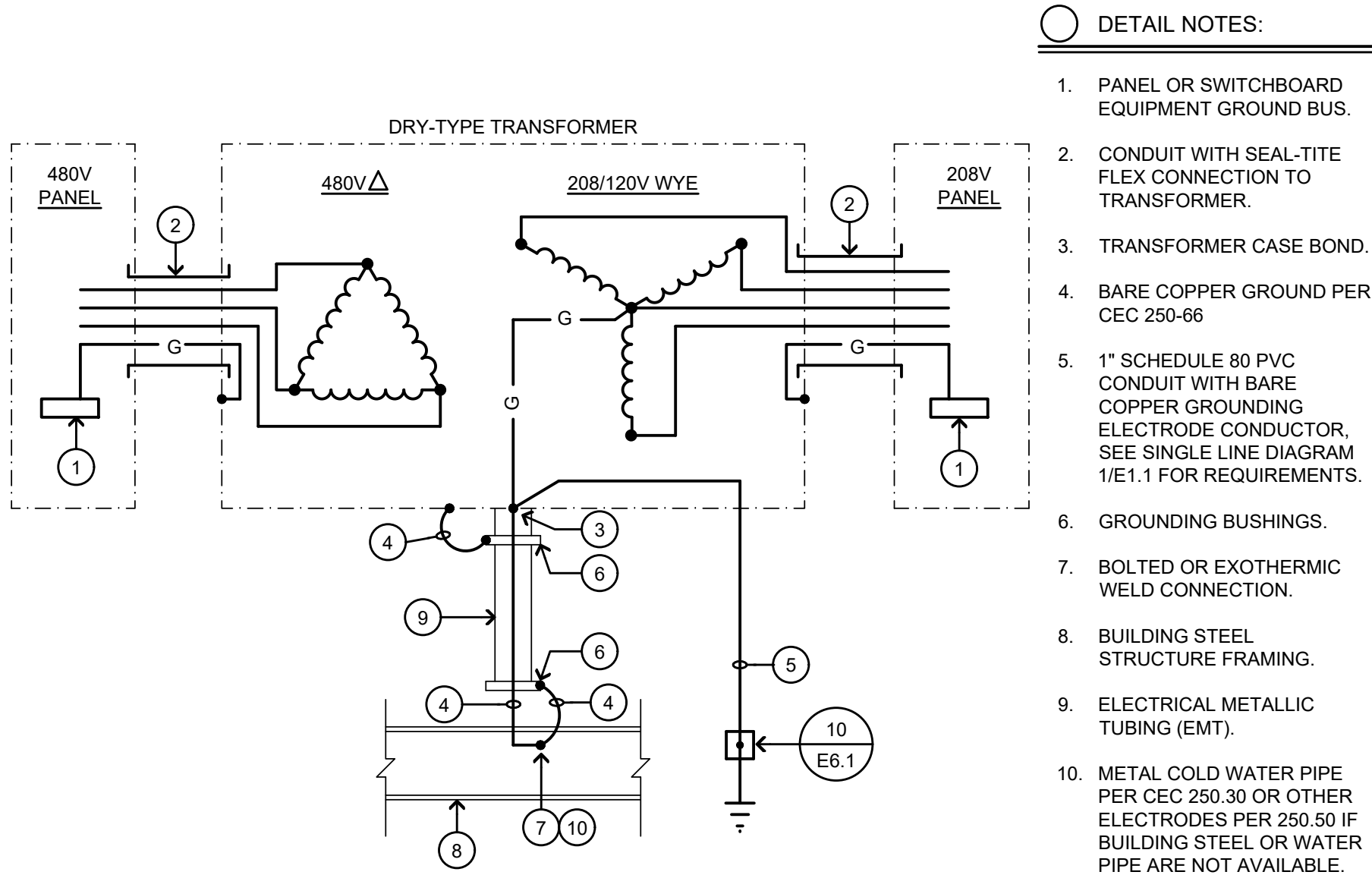
FIRE RATED PENETRATIONS SHOWN ARE FOR USE WHERE THE PROJECT WALL OR/AND FLOOR CONSTRUCTION CORRESPONDS TO ANY SHOWN IN DETAILS 8 BELOW



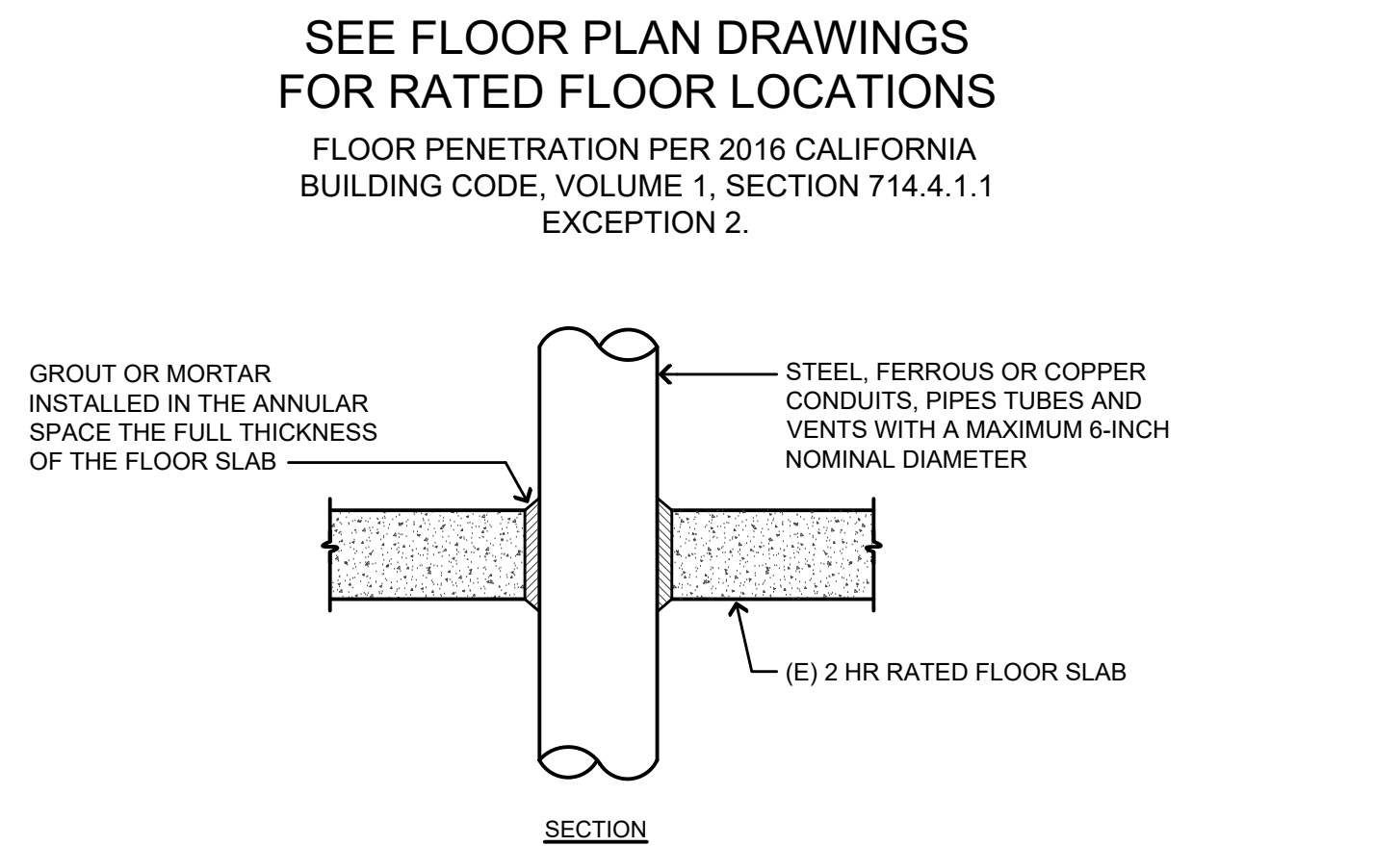
11 DRY TYPE TRANSFORMER MOUNTING DETAIL
NO SCALE



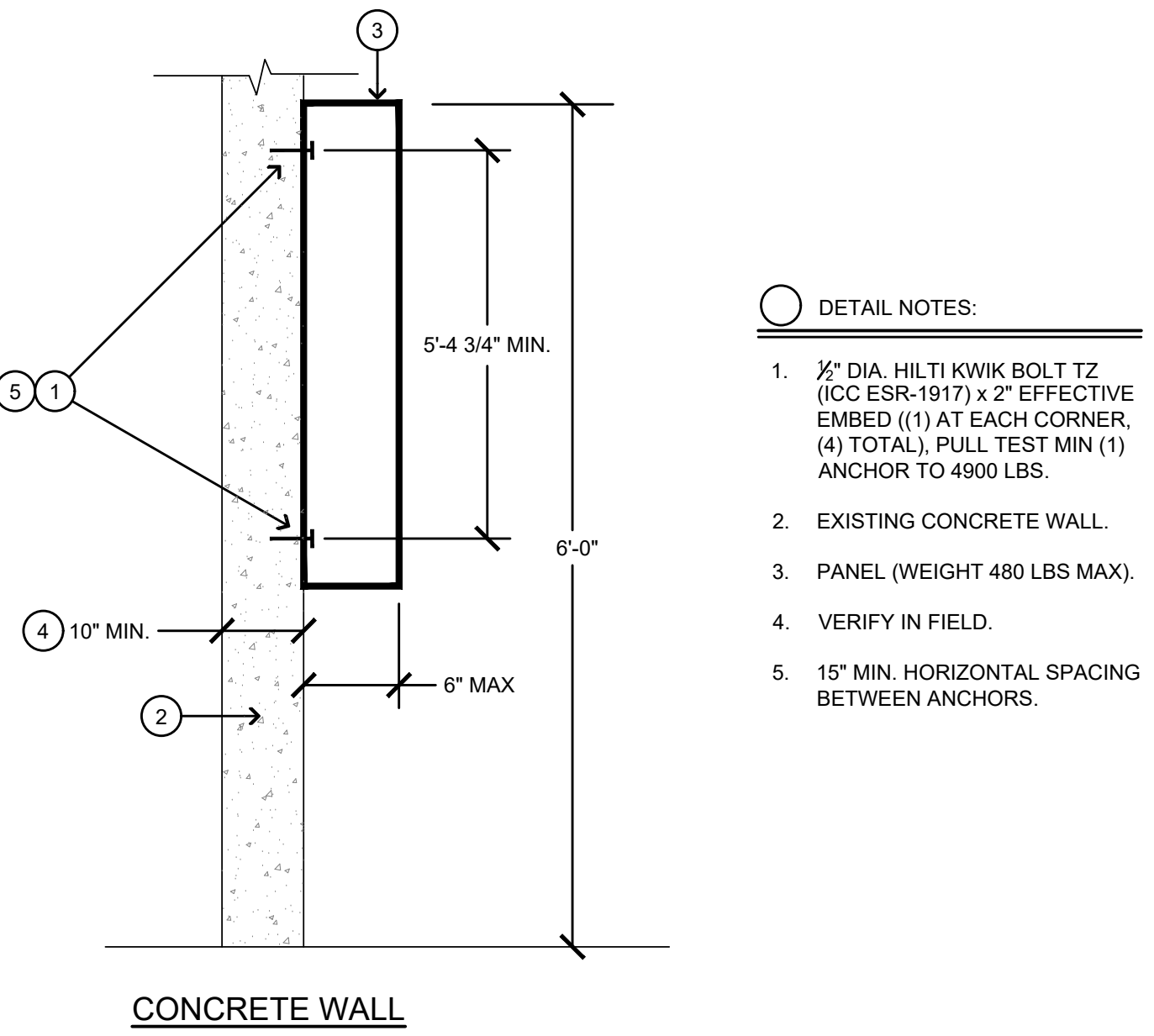
10 GROUND ROD BOX DETAIL
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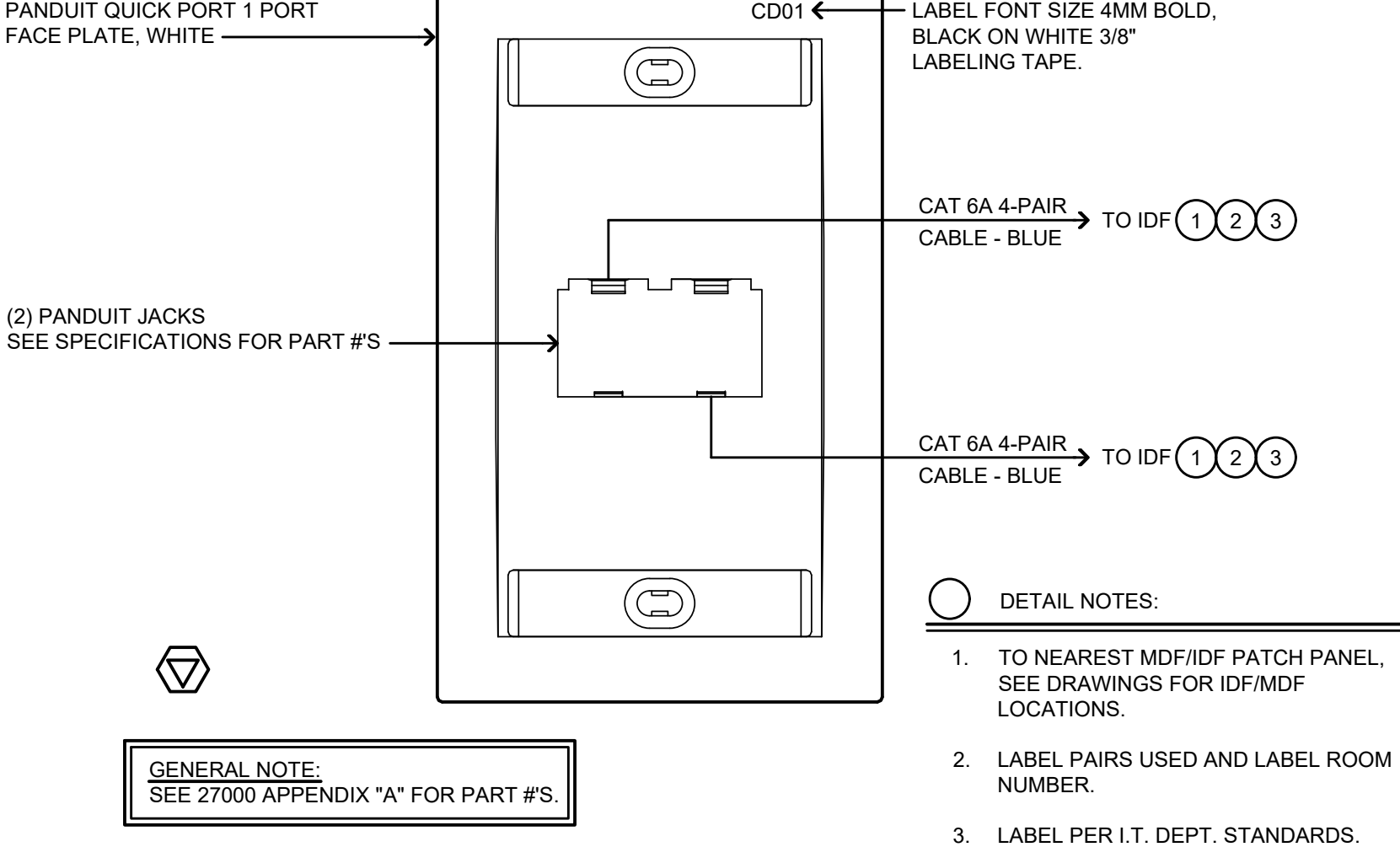
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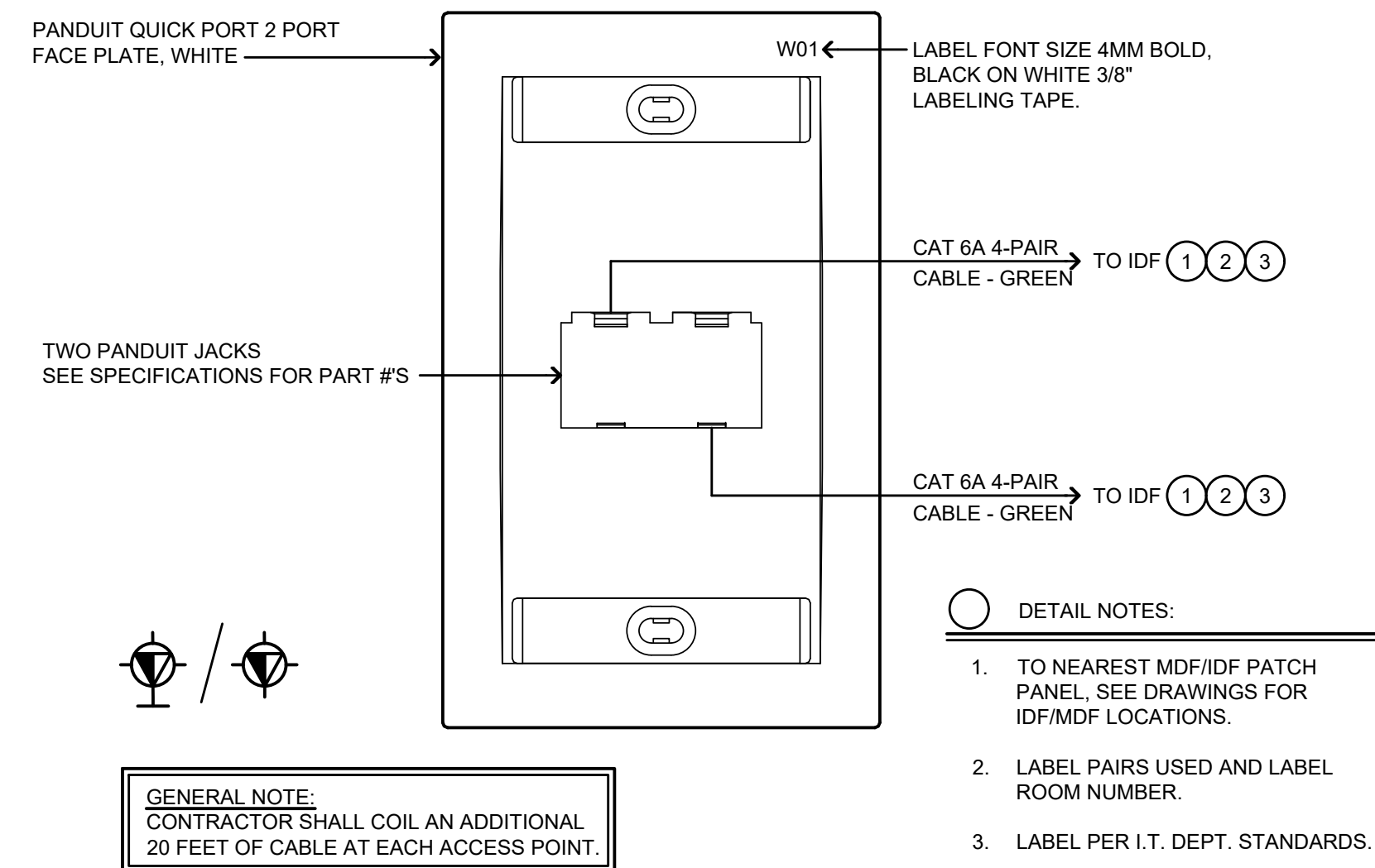
8 2-HR FIRE-RATED FLOOR PENETRATION
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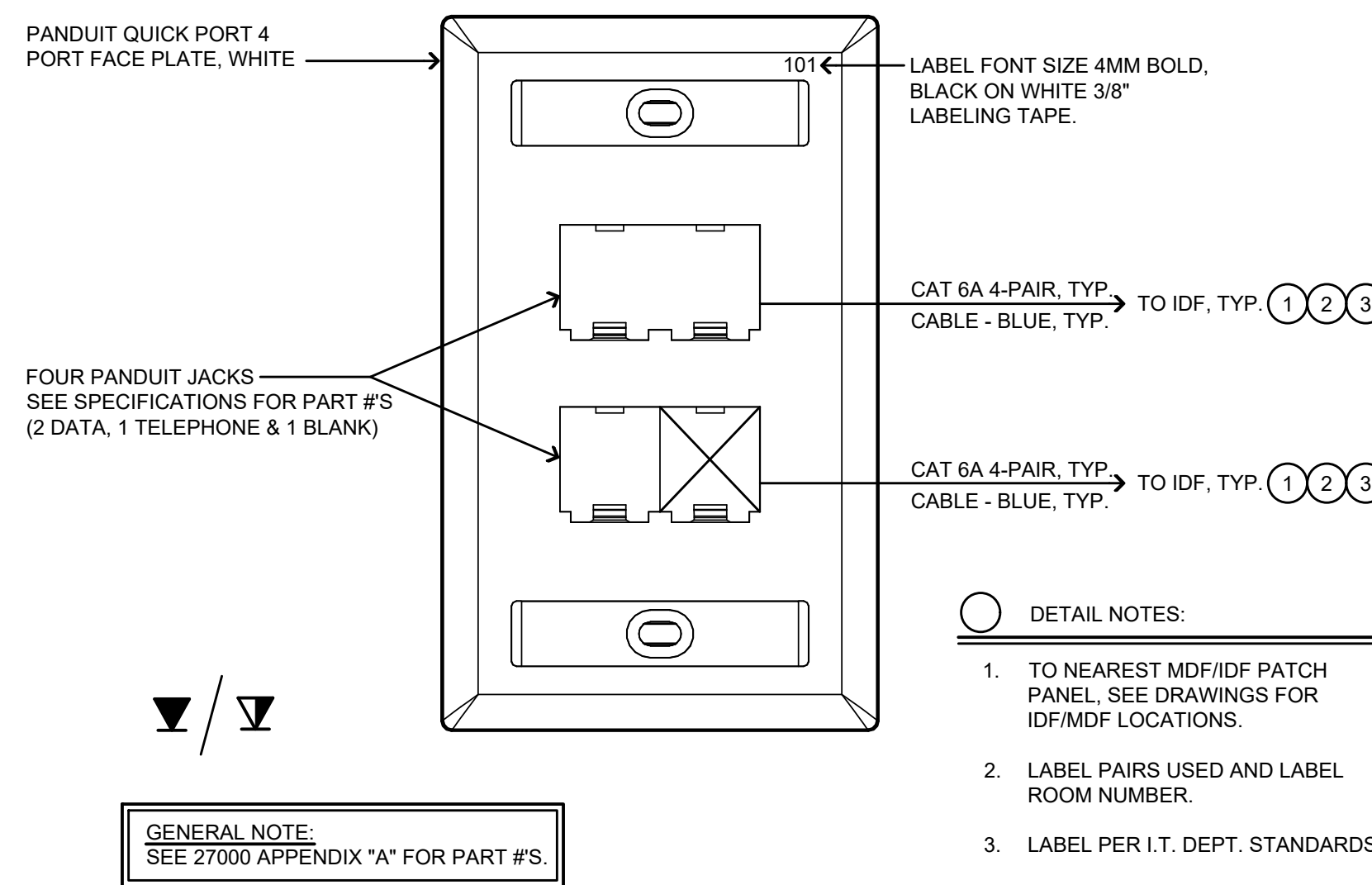
7 SURFACE MOUNTED PANEL
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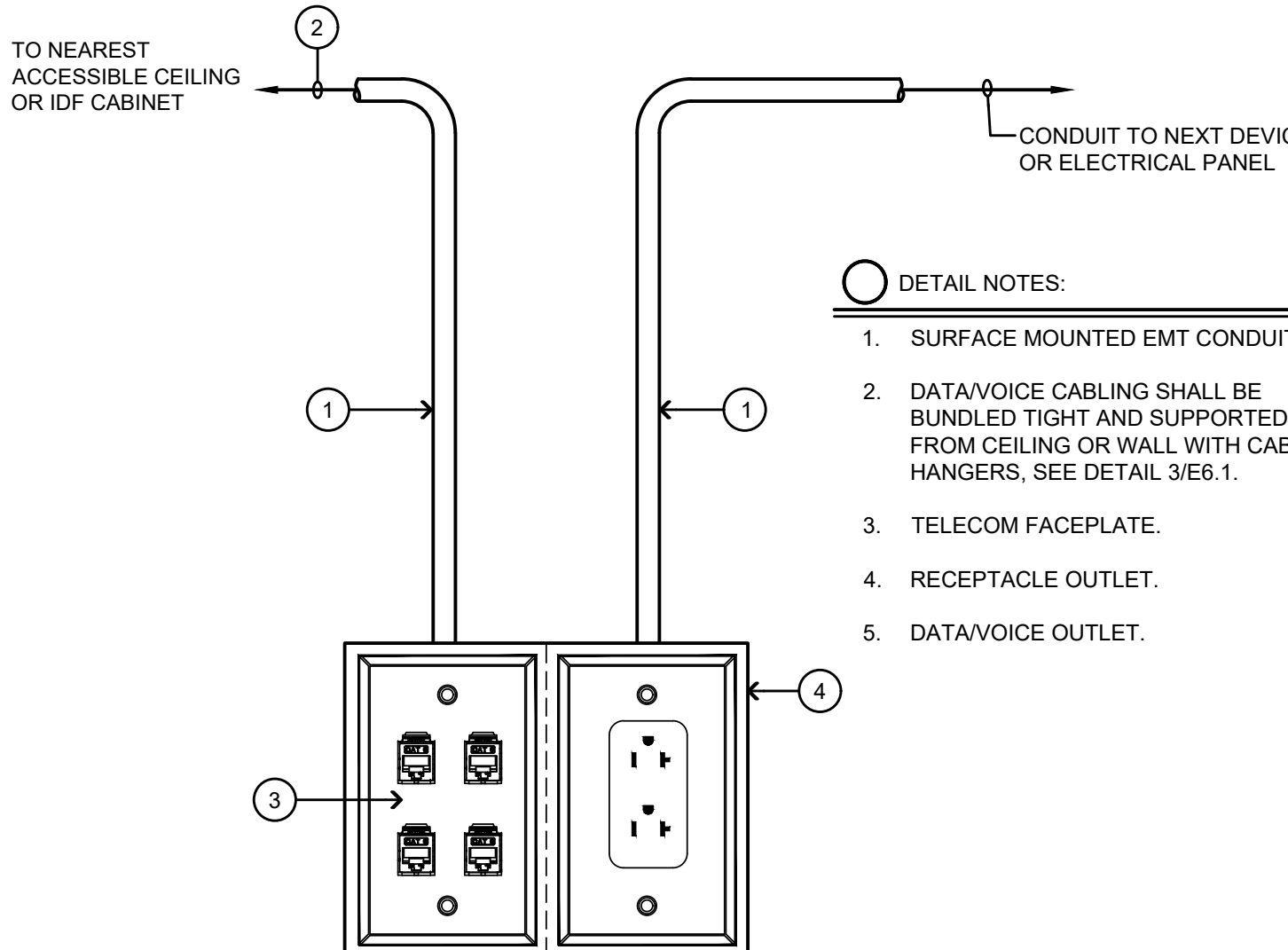
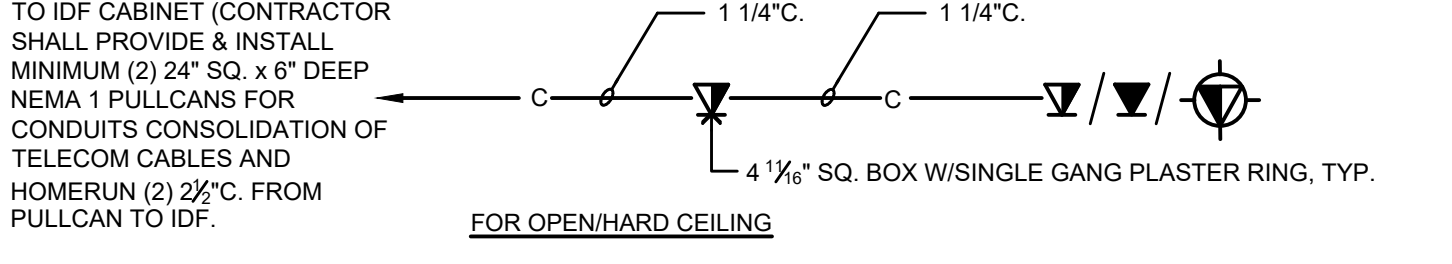
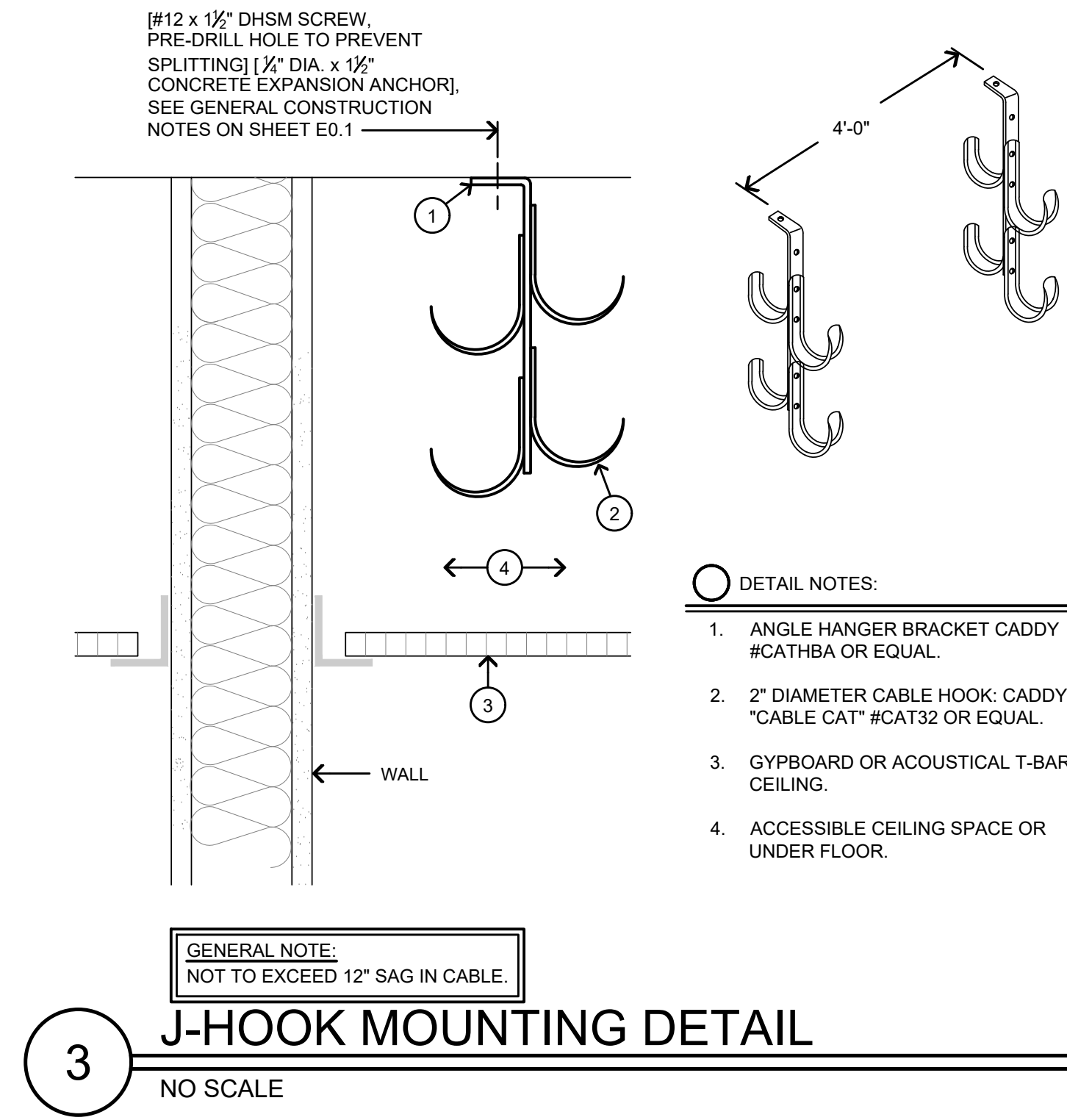
6 CEILING OUTLET
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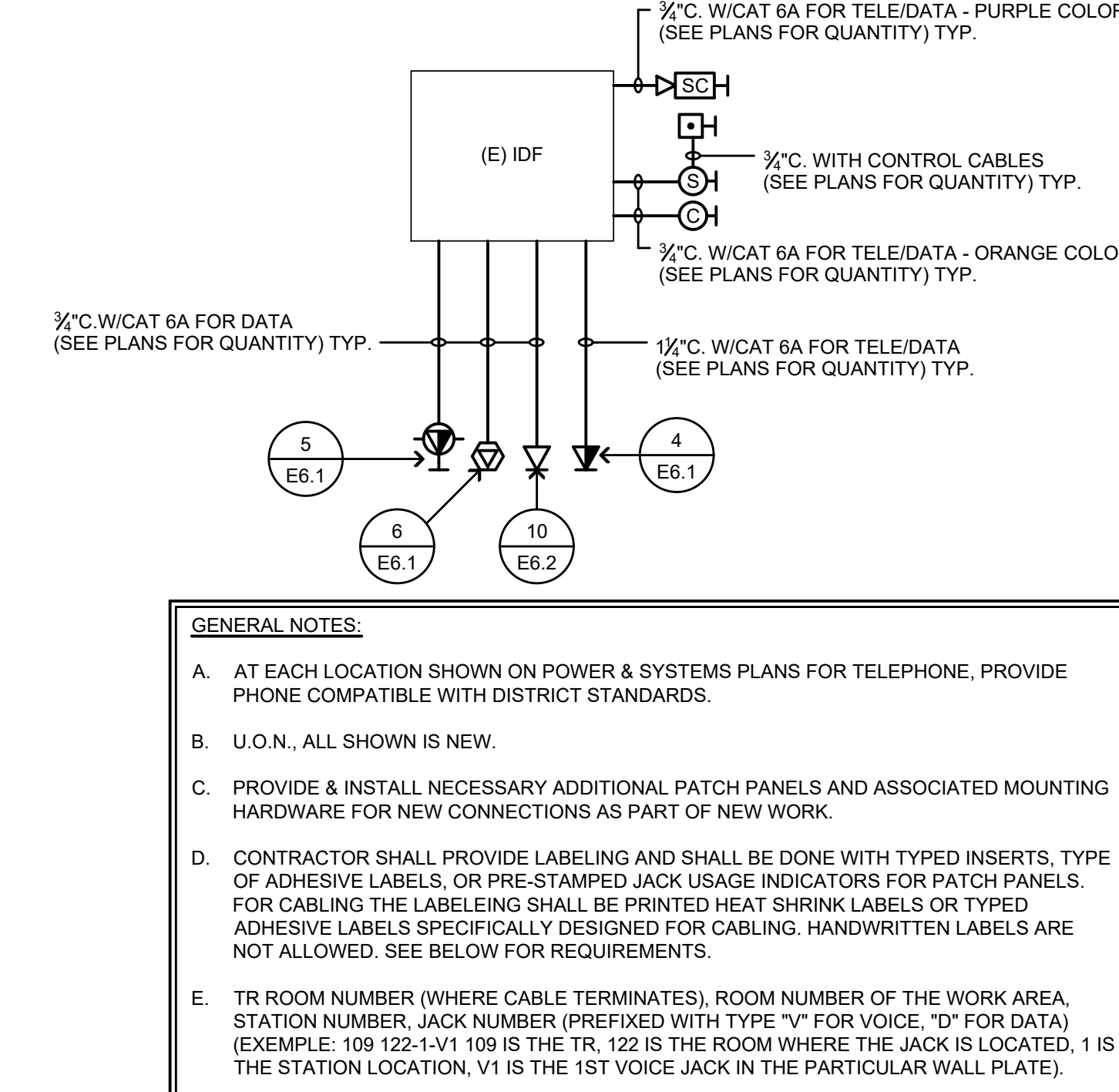
5 WIRELESS OUTLET
NO SCALE



4 WORKSTATION OUTLET
NO SCALE



2 SURFACE MOUNTED DATA/POWER OUTLET
NO SCALE



1 TELE/DATA RISER DIAGRAM
NO SCALE

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-118866 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/09/2020

CLIENT

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

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ISSUES

No.	DESCRIPTION	DATE
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PROJECT NO:
121030

DRAWN BY:
CADD

PROJECT MGR:
ARCHITECTURAL

CHECKED BY:
NA

APPROVED BY:
Approver

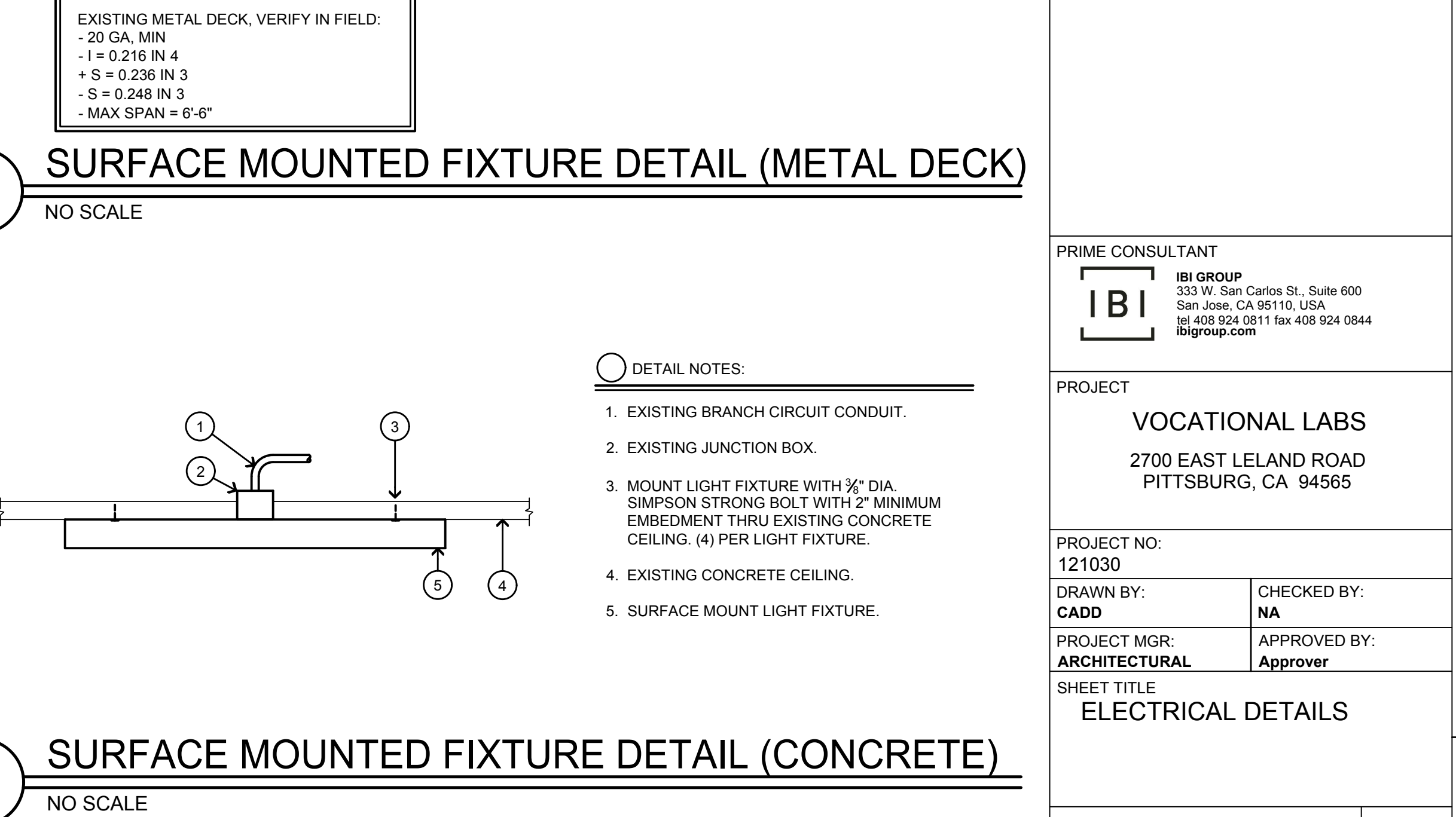
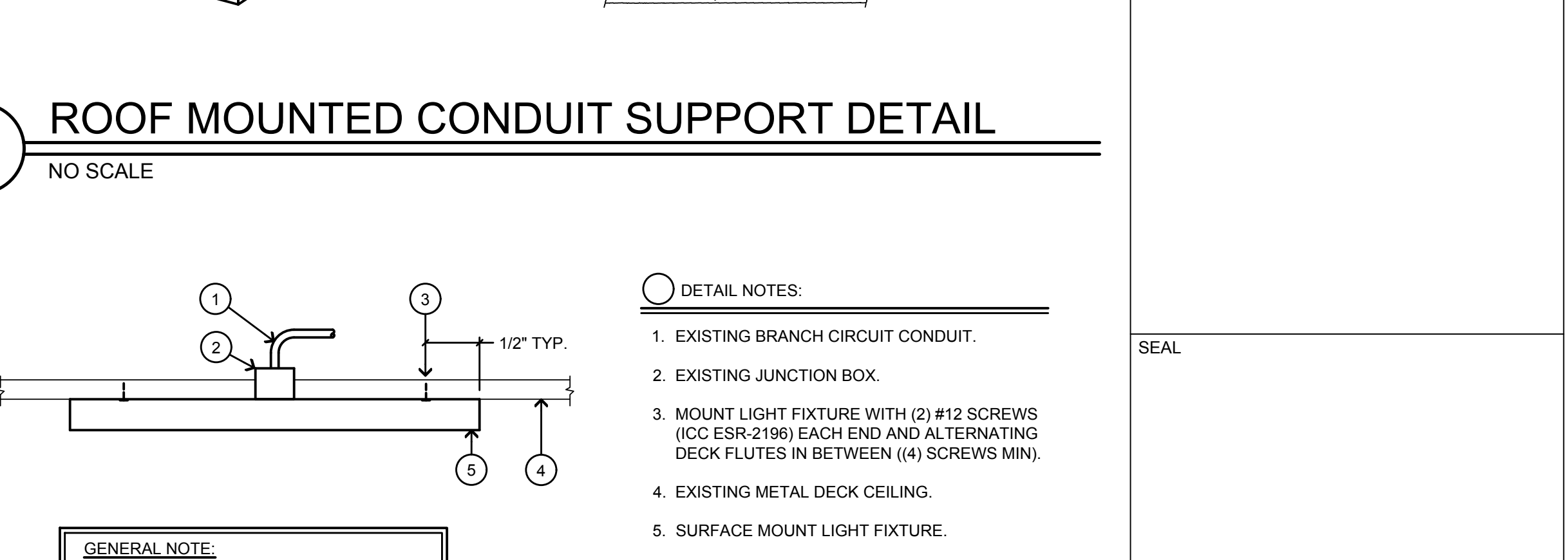
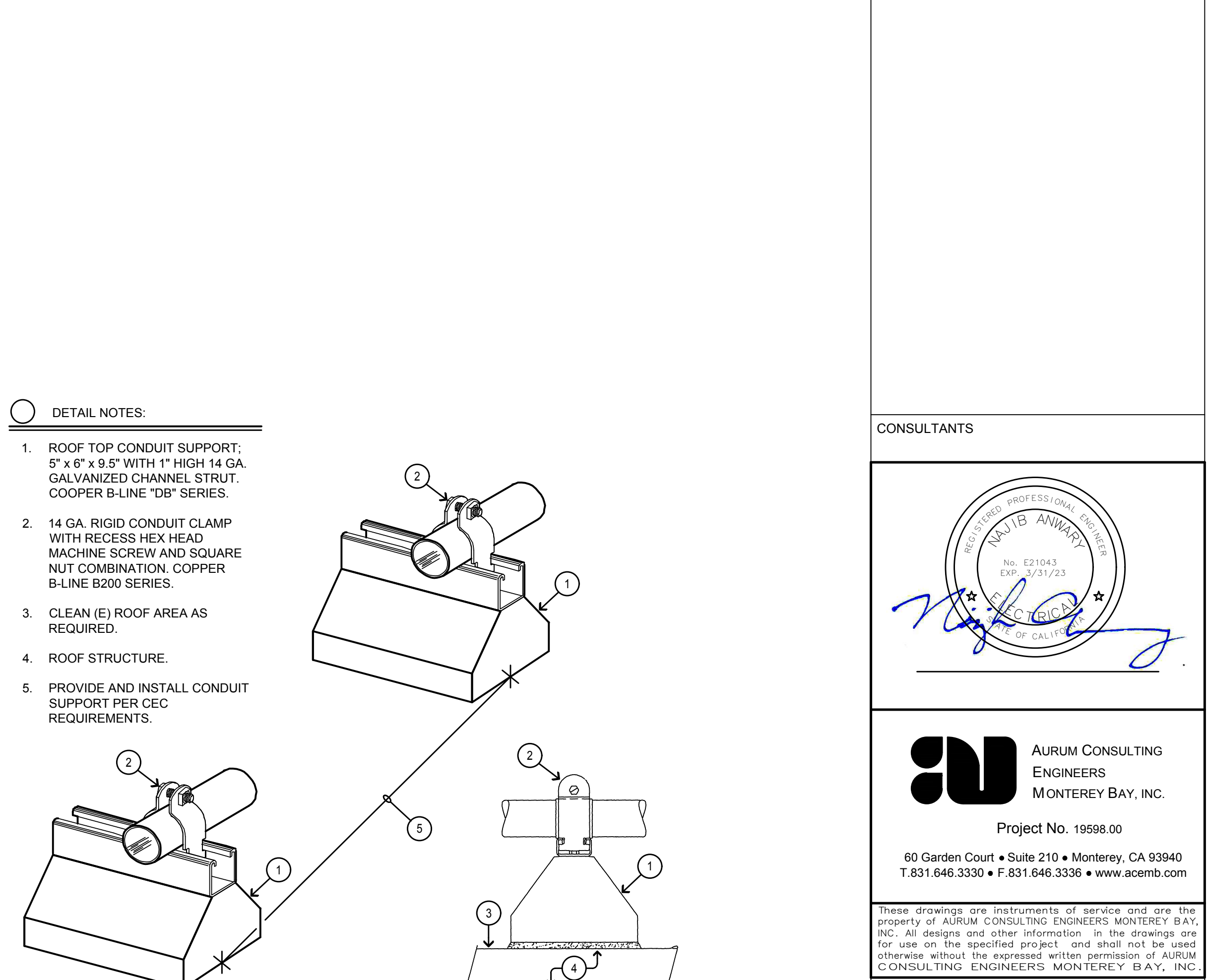
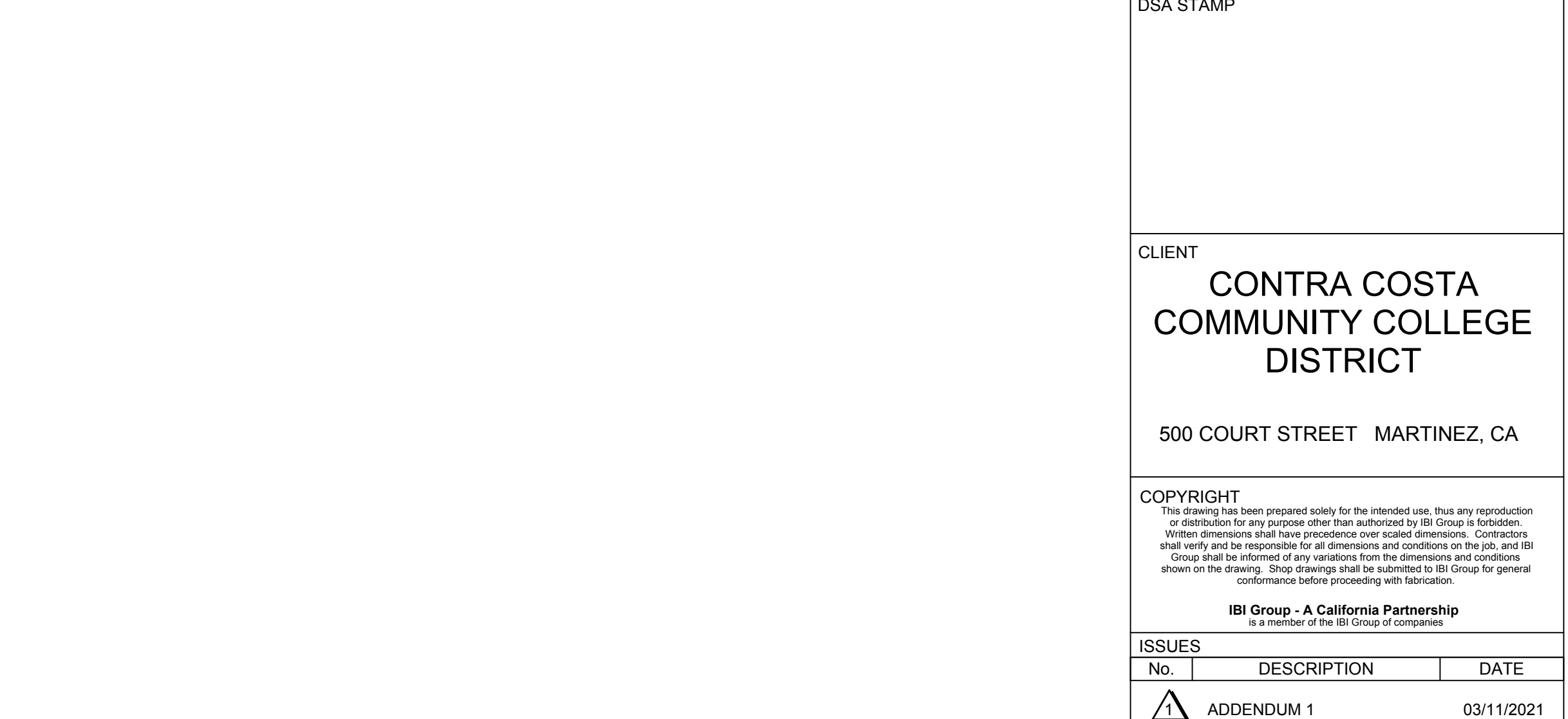
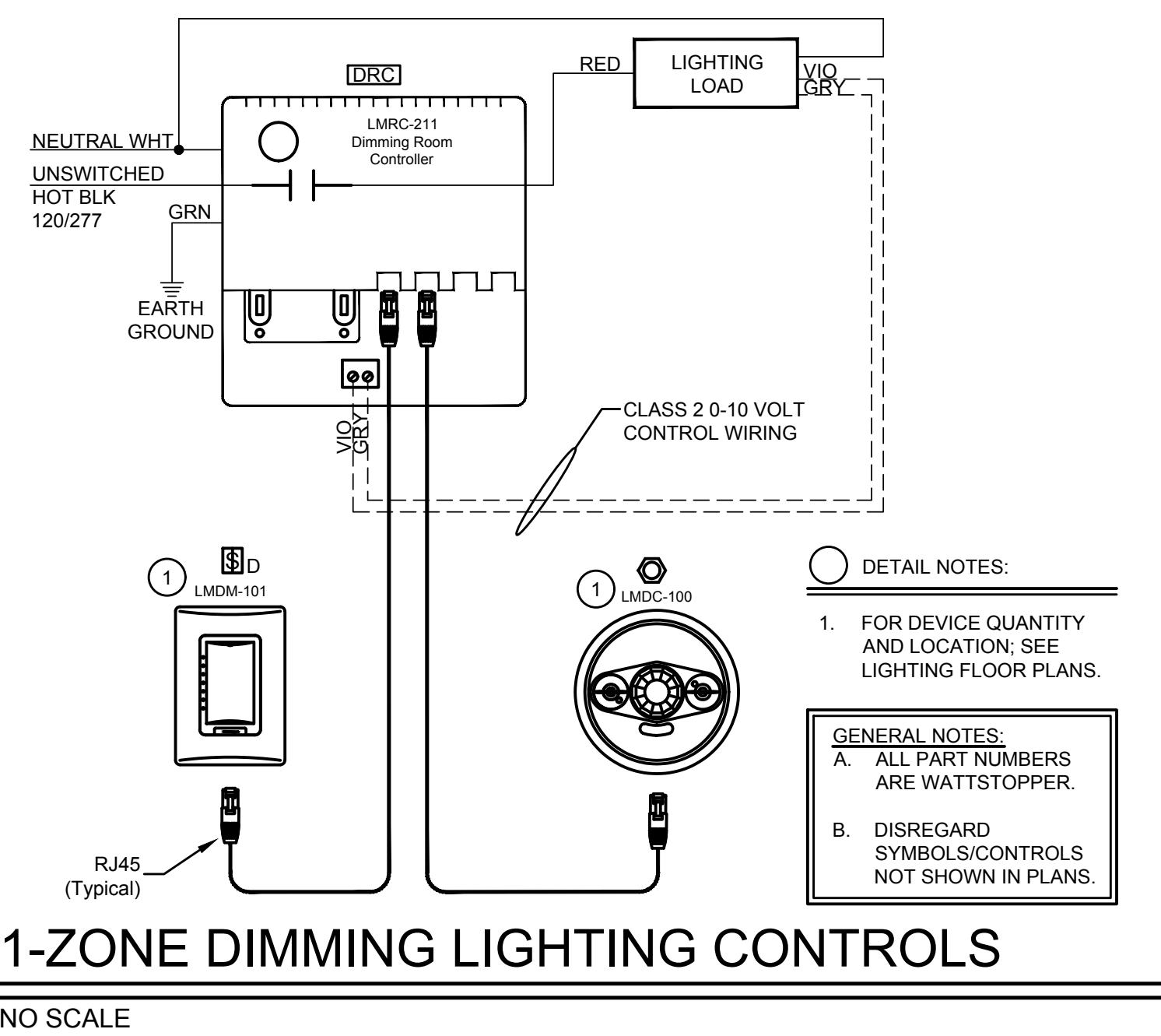
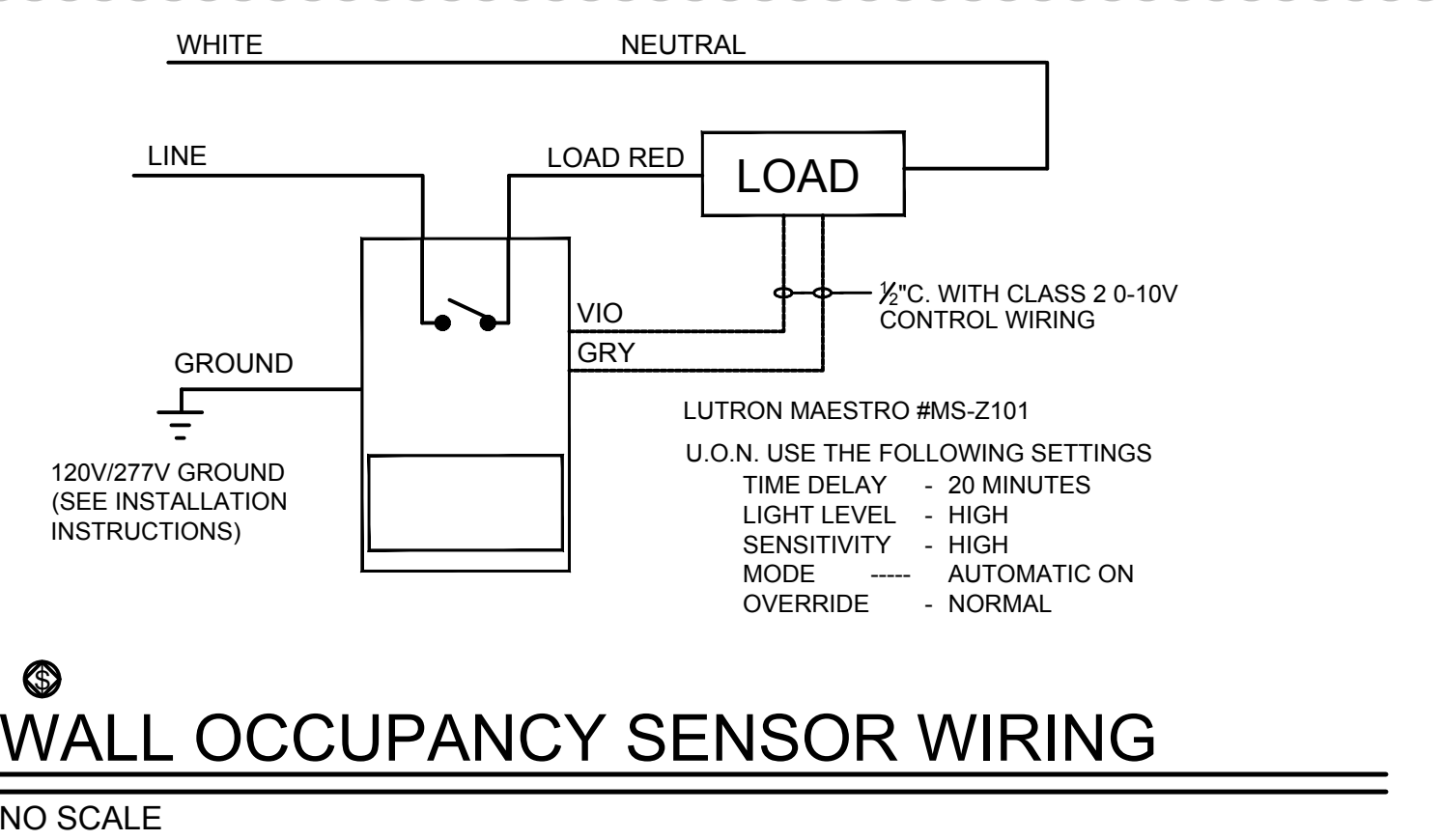
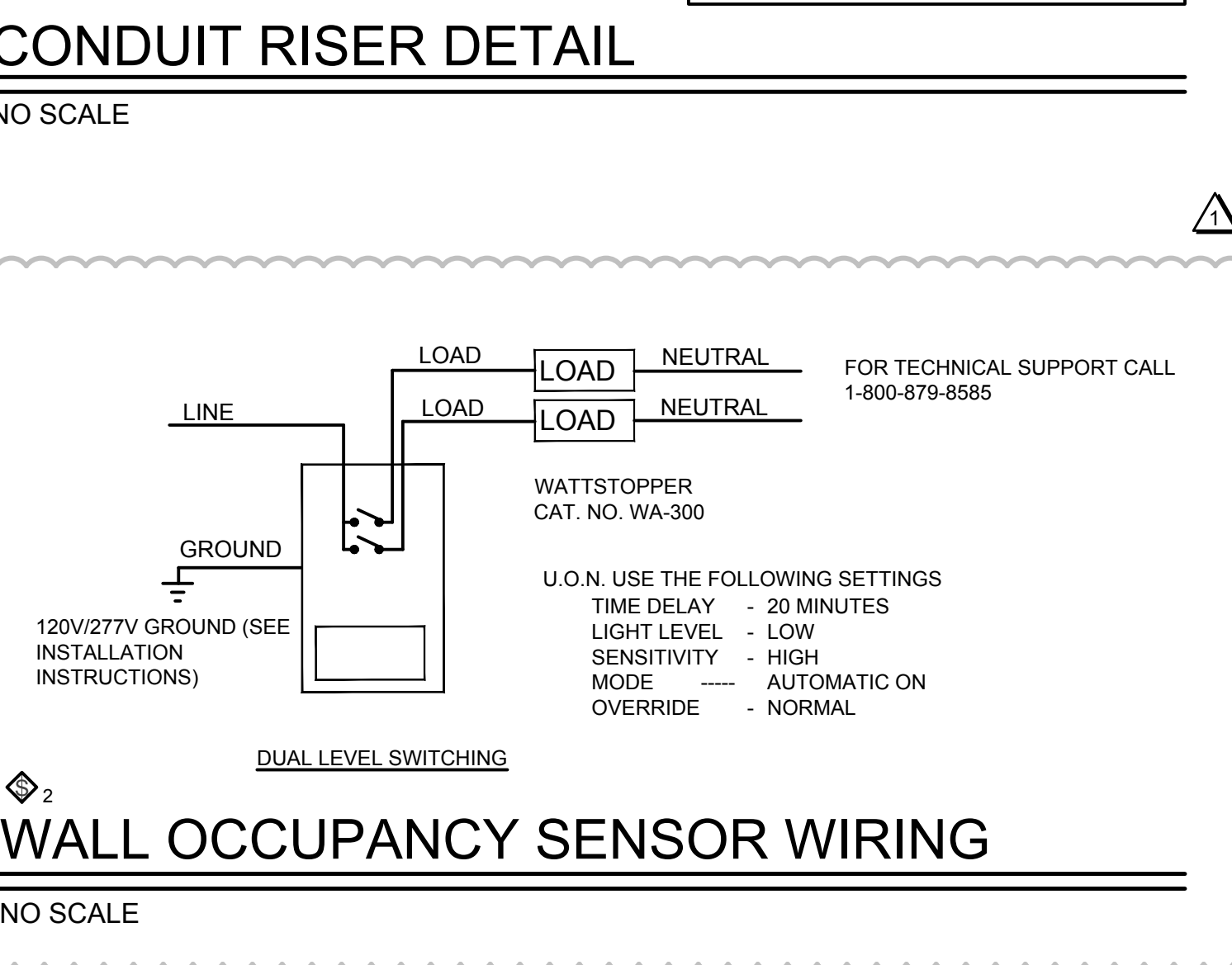
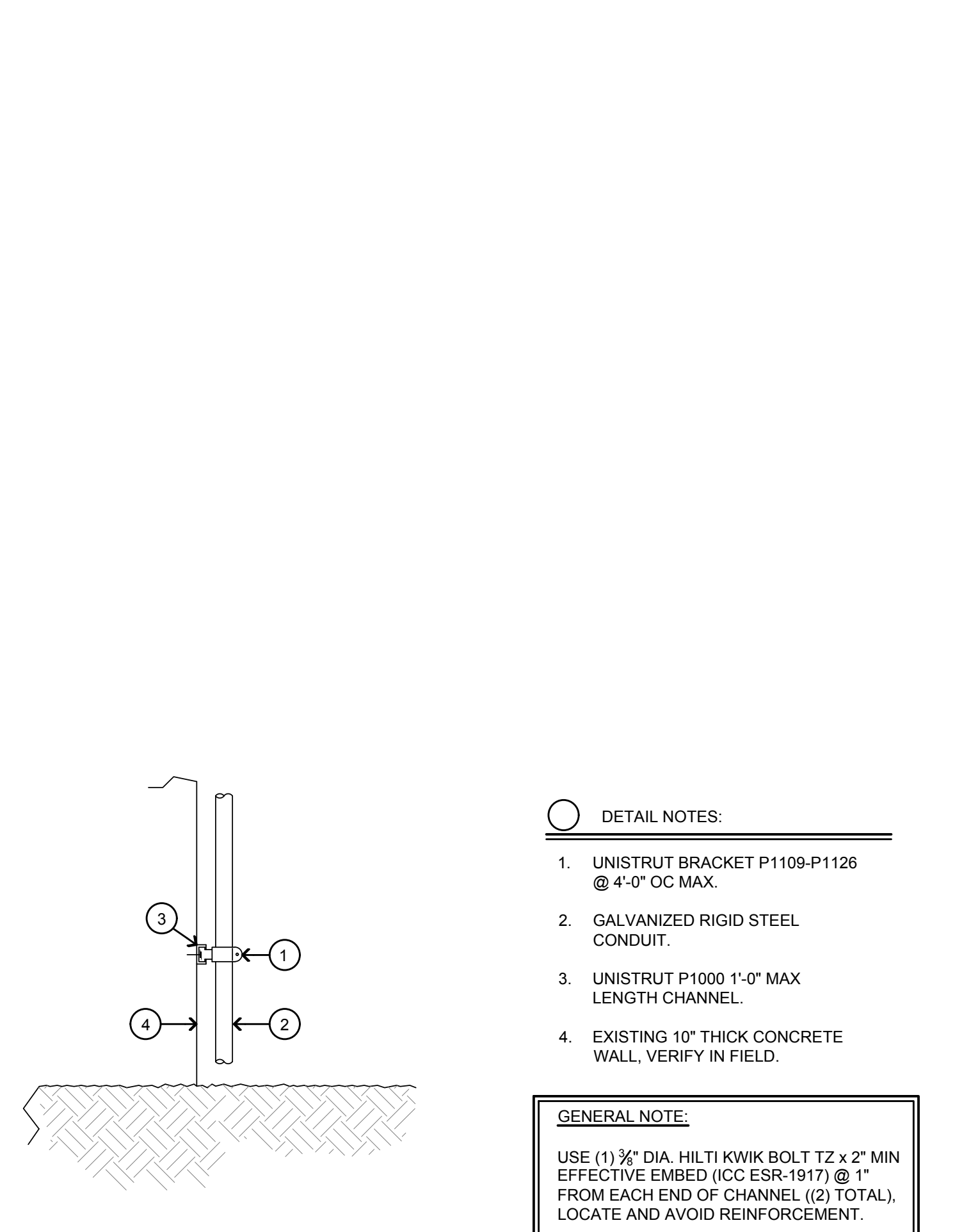
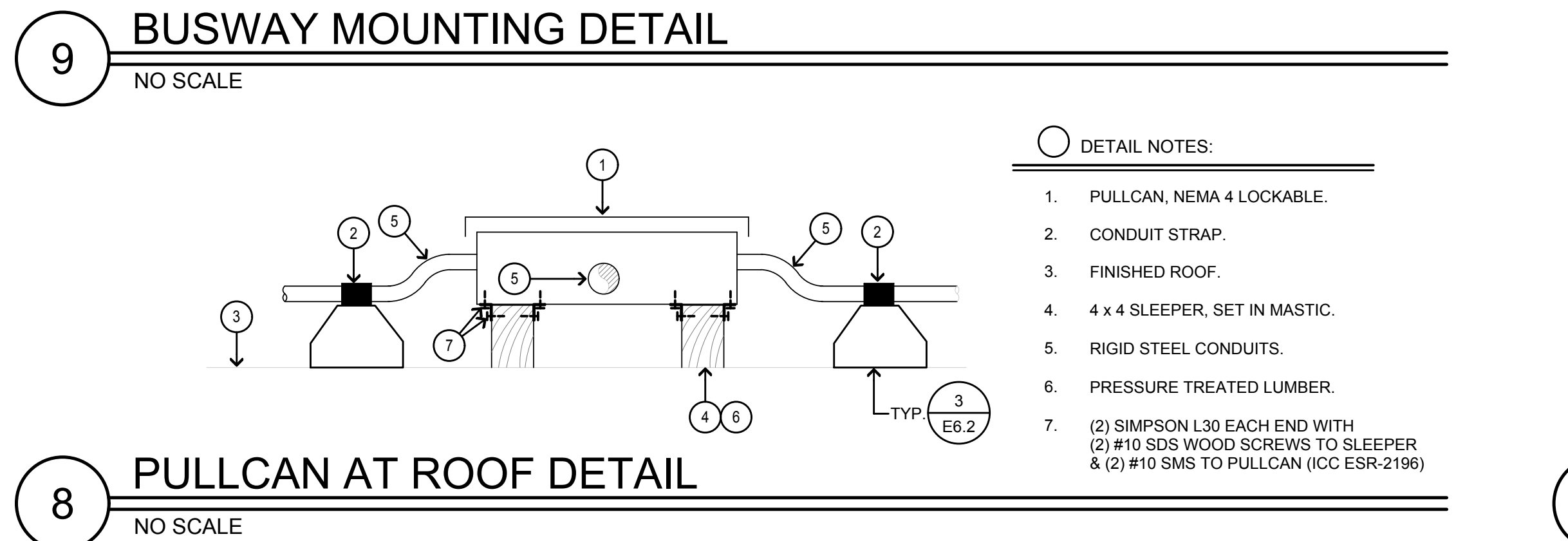
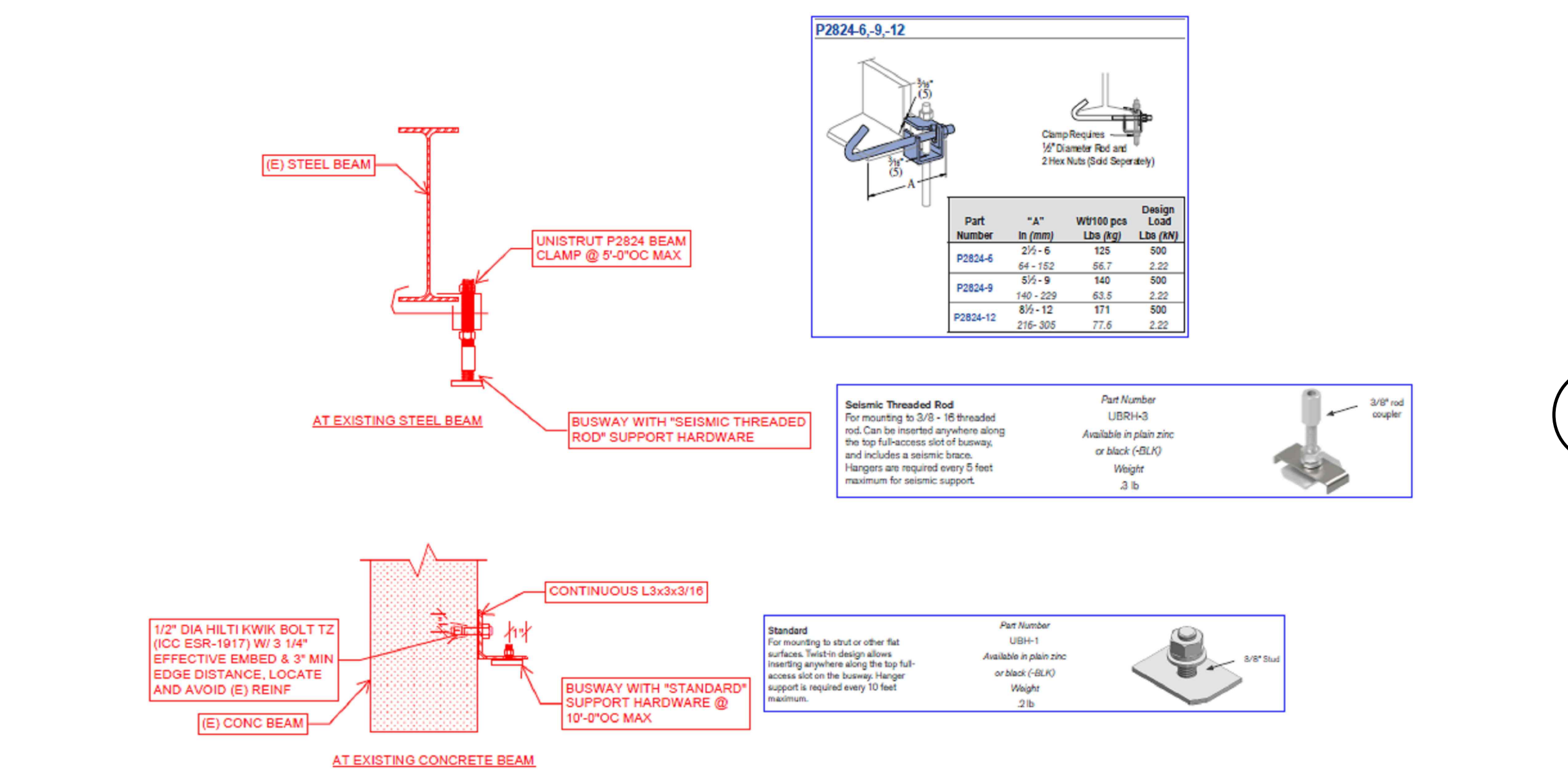
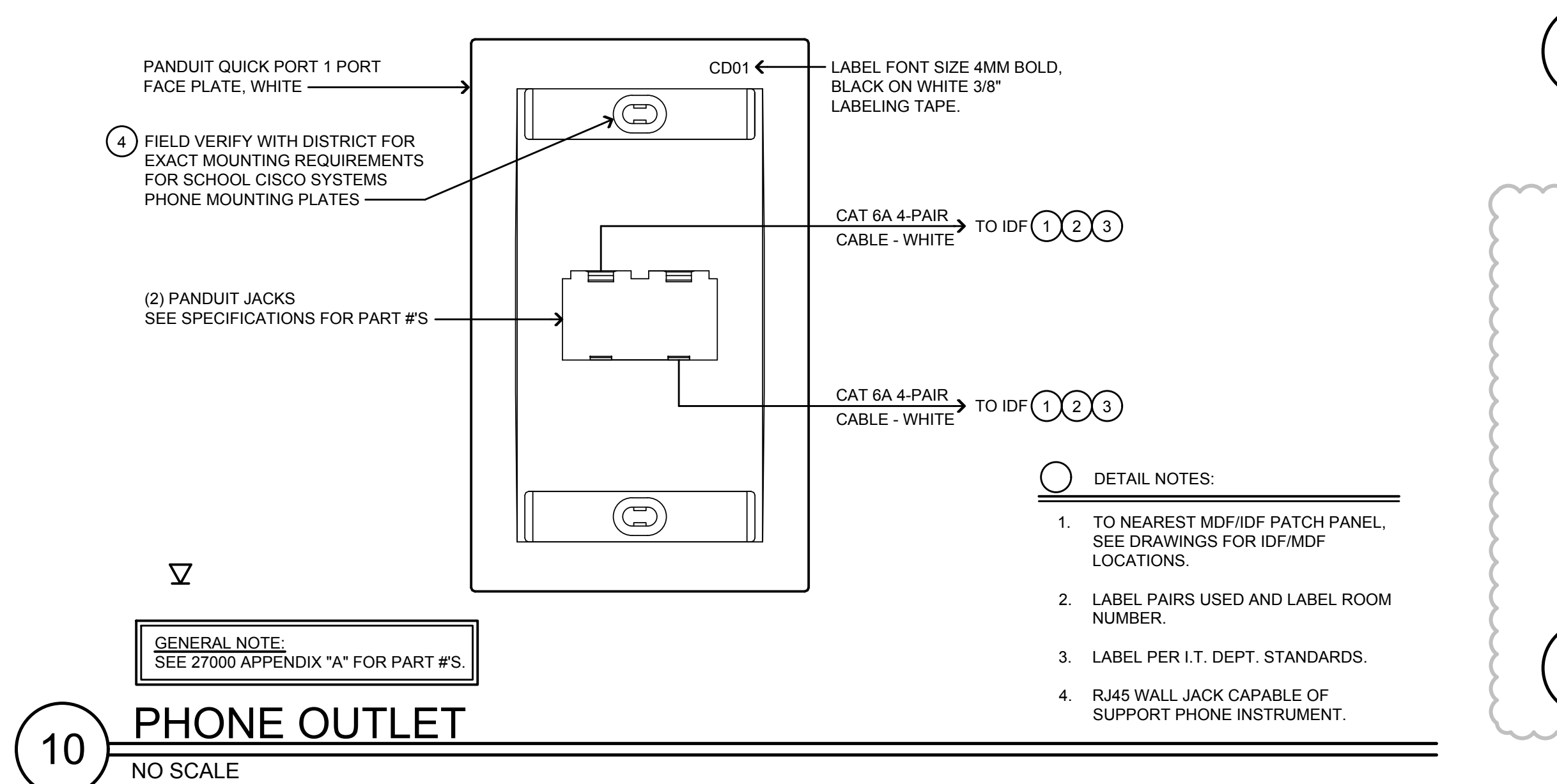
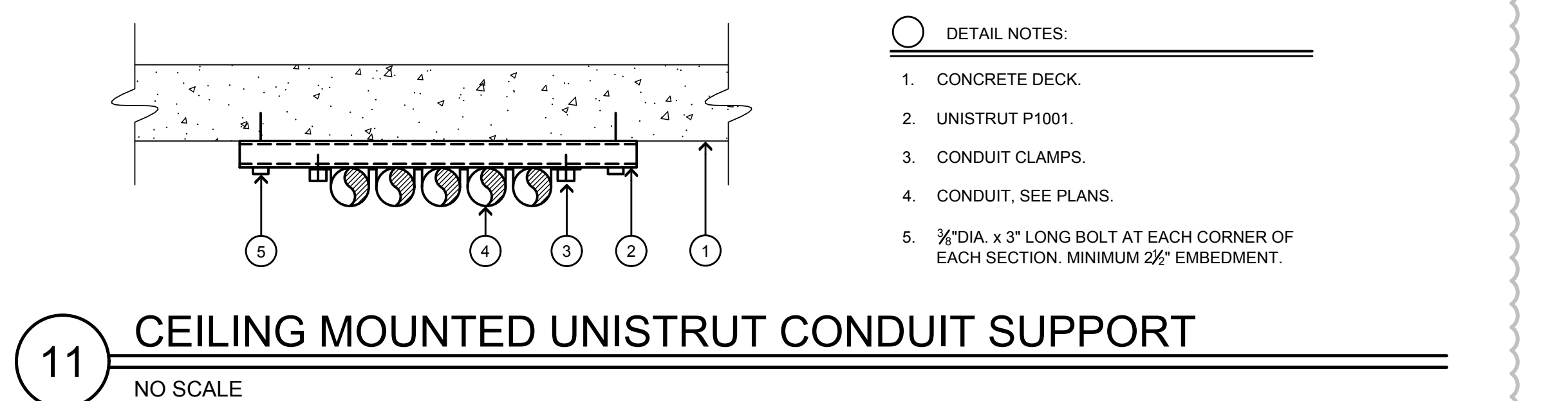
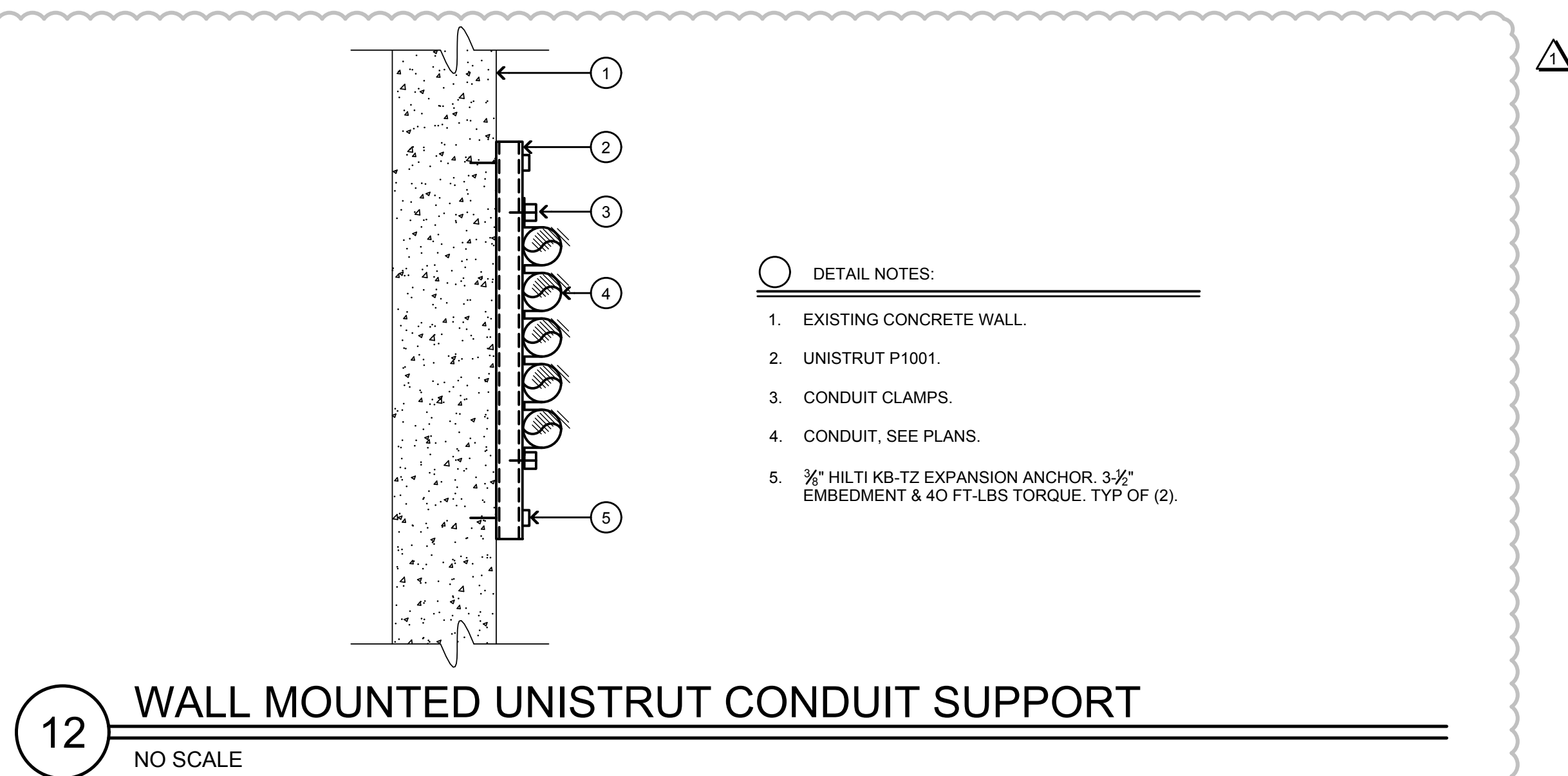
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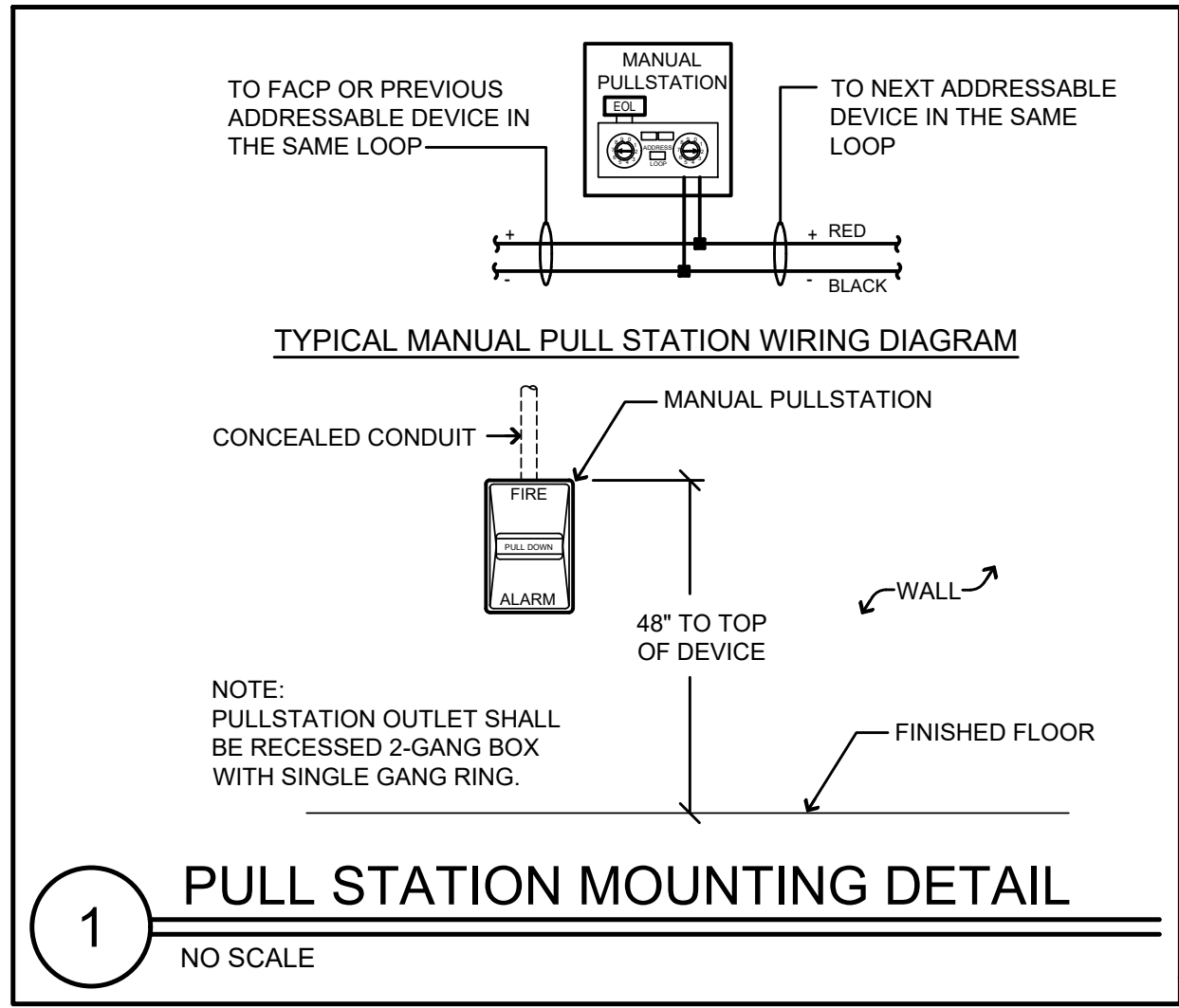
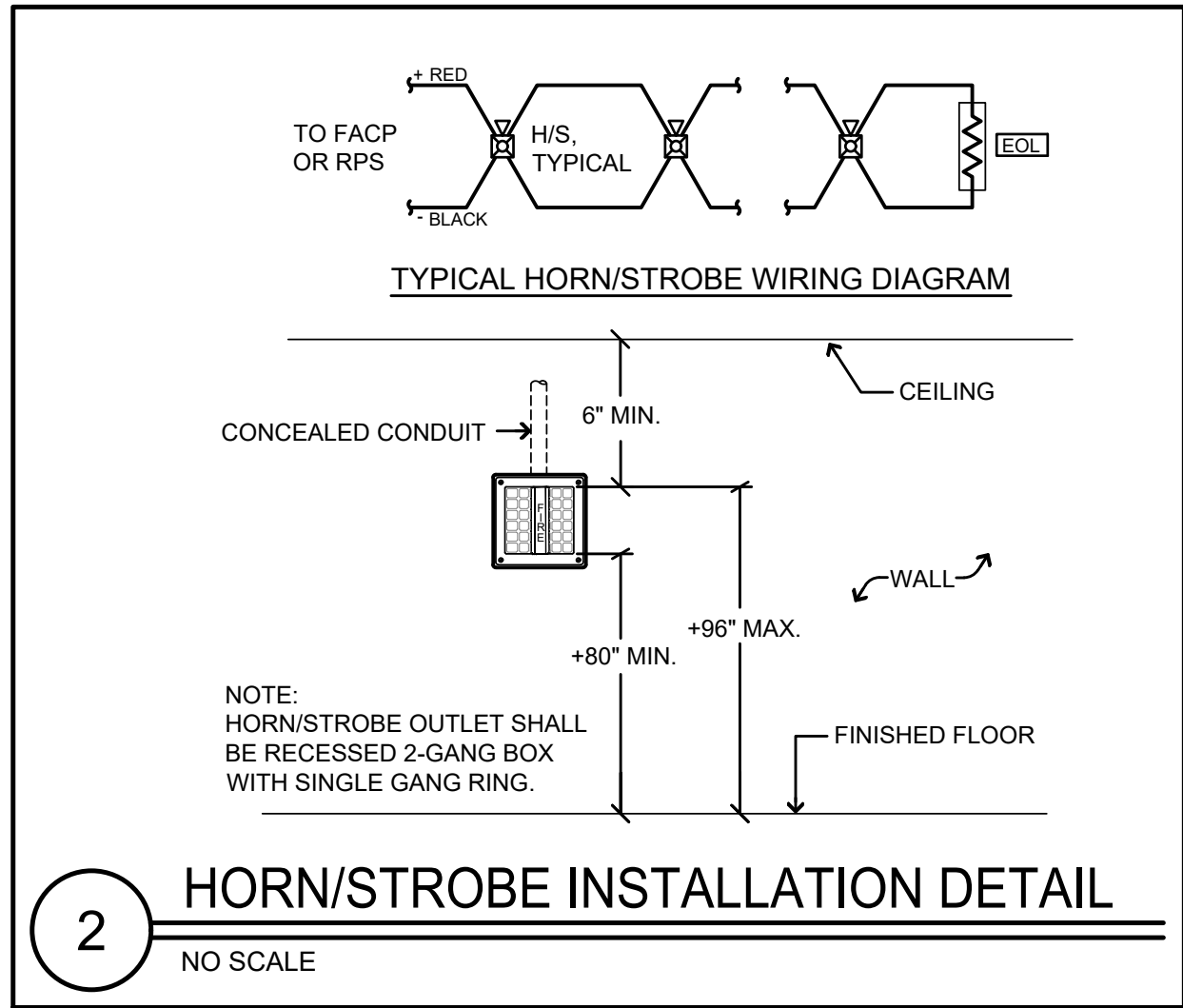
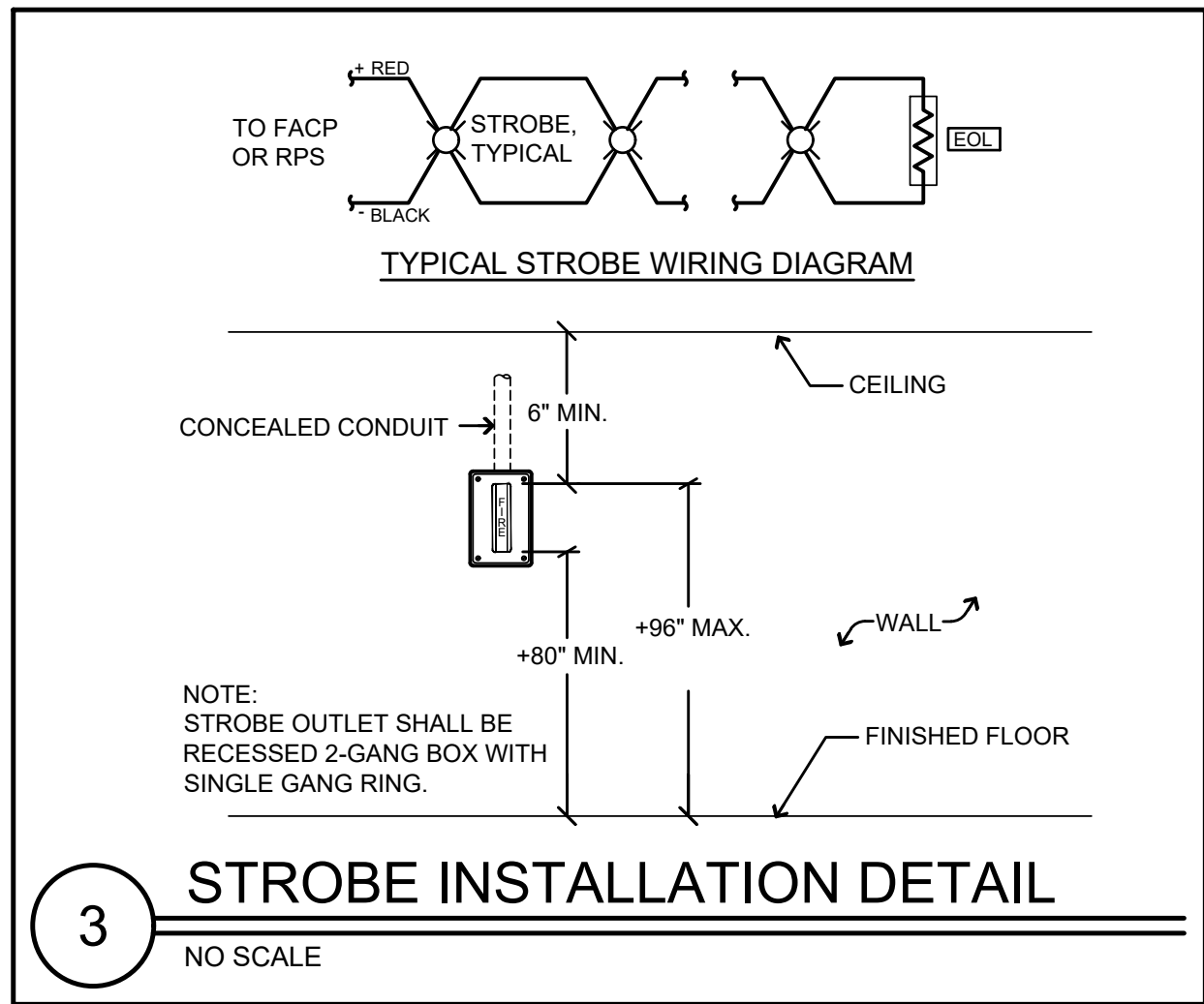
ELECTRICAL DETAILS

SHEET NUMBER

E6.1

ISSUE





FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFG'S PART No.	CSFM LISTING
[FACP]	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL, SIEMENS MXL SERIES WITH BUILT-IN DACT-UD2 COMMUNICATOR. (SEE BATTERY CALCULATIONS FOR SIZE OF BATTERIES REQUIRED.)	MXL	7165-0067-0144
[P]	ADDRESSABLE INTELLIGENT MANUAL PULL STATION, SIEMENS MS SERIES.	MSI-108	7150-0067-0036
[X]	WALL MOUNT, MULTI-CANDELA, FIRE ALARM STROBE WITH FIELD SELECTABLE CANDELA SETTING OF 15, 15/75, 30, 60, 75, 95, 110, 135, 150, 177 & 185. WHEELLOCK EXCEDER SERIES, WHITE FINISH.	STR	7125-0785-0168
[X]	WALL MOUNT, MULTI-CANDELA, FIRE ALARM HORN/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 15/75, 30, 75, 95, 110, 135 & 185 AND SELECTABLE JBA SETTINGS OF 80 OR 95/8A. IN TEMPORAL PATTERN CODE 3). WHEELLOCK EXCEDER SERIES, WHITE FINISH.	HSR	7125-0785-0168
[EOL]	END OF LINE DEVICE.	-	-

- ### FIRE ALARM GENERAL NOTES
1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
 2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
 3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
 4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
 5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
 6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
 7. ALL DEVICES SHALL BE "CSFM" LISTED.
 8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
 9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
 10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 150DBA ABOVE THE AVERAGE SOUND LEVEL.
 11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
 12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
 13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES" CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
 14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR), BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
 15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
 16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
 17. EXISTING FIELD DEVICES SHALL REMAIN IN PLACE UNTIL NEW FIELD DEVICES ARE IN PLACE AND NEW WIRING HAS BEEN HOMERAN TO LOCATION OF FACP.

SYMBOLS & ABBREVIATIONS

SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - IN OR BELOW FLOOR: 3/4" MIN.
- CONDUIT CONTINUATION.
- ROOM NUMBER.
- SHEET NOTE REFERENCE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET.
- DETAIL OR SECTION DESIGNATION.

ABBREVIATIONS

ARCH.	ARCHITECT	FSD	FIRE SMOKE DAMPER
AWG	AMERICAN WIRE GAUGE	IDC	INITIATING DEVICE CIRCUITS
BKR	BREAKER	(N)	NEW
C	CONDUIT	NAC	NOTIFICATION APPLIANCE CIRCUITS
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT NUMBER
CKT	CIRCUIT	NO	NO
CLG	CEILING	SLC	SIGNALING LINE CIRCUITS
(E)	EXISTING	TYP	TYPICAL
EOL	END OF LINE	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL		
FBO	FURNISHED BY OTHERS		

TYPICAL ZONE NOMENCLATURE

PROJECT DESCRIPTION

SCOPE OF WORK:
EXTENSION OF EXISTING ADDRESSABLE FIRE ALARM SYSTEM TO REMODELED SPACES.

SYSTEM DESCRIPTION:
SLC = CLASS B
IDC = CLASS B
NAC = CLASS B

DESIGN BY: NAJIB ANHWARY PE.

FIRE ALARM SYSTEM OPERATIONAL MATRIX											
CAUSE	ALARM				TROUBLE				SUPERVISORY		MISC.
	EFFECT	ALARM	TROUBLE	SUPERVISORY	EFFECT	ALARM	TROUBLE	SUPERVISORY	EFFECT	ALARM	TROUBLE
SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•	•
HEAT DETECTORS	•	•	•	•	•	•	•	•	•	•	•
MANUAL PULL STATIONS	•	•	•	•	•	•	•	•	•	•	•
DUCT SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•	•
FLOW SWITCH	•	•	•	•	•	•	•	•	•	•	•
TAMPER SWITCH	•	•	•	•	•	•	•	•	•	•	•
SIGNAL SILENCE	•	•	•	•	•	•	•	•	•	•	•
SYSTEM RESET	•	•	•	•	•	•	•	•	•	•	•
AC POWER FAILURE	•	•	•	•	•	•	•	•	•	•	•
TROUBLE (OPEN, SHORTS, GROUNDS) ON INITIATION OR SIGNAL CIRCUITS	•	•	•	•	•	•	•	•	•	•	•

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REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/09/2020

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CONTRA COSTA COMMUNITY COLLEGE DISTRICT
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PITTSBURG, CA 94565

PROJECT NO:
121030

DRAWN BY:
CADD

PROJECT MGR:
ARCHITECTURAL

CHECKED BY:
NA

APPROVED BY:
Approver

SHEET TITLE
FIRE ALARM SYMBOLS, ABBREVI., EQUIP. LIST, OP. MATRIX, DETAILS & NOTES

SHEET NUMBER
FA0.1

ISSUE

VOLTAGE DROP CALCULATIONS

VOLTAGE DROP (VD) CALCULATION - CIRCUIT NO. S3										
DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	200	60	40	30						
AMPS OF DEVICE	0.197	0.148	0.062	0.057	0	0	0	0	0	0
TOTAL AMP@DEV	0.484	0.291	0.138	0.057	0	0	0	0	0	0
VOLT. DROP @ DEV.	0.32	0.057	0.018	0.006	0	0	0	0	0	0
DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)										
AMPS OF DEVICE										
TOTAL AMP@DEV	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0
TOTAL CIRCUIT AMPS =	0.484									
TOTAL VOLT. DROP =	0.401									
CKT. VOLTAGE =	20.4									
% VOLTAGE DROP >=	2.0%									

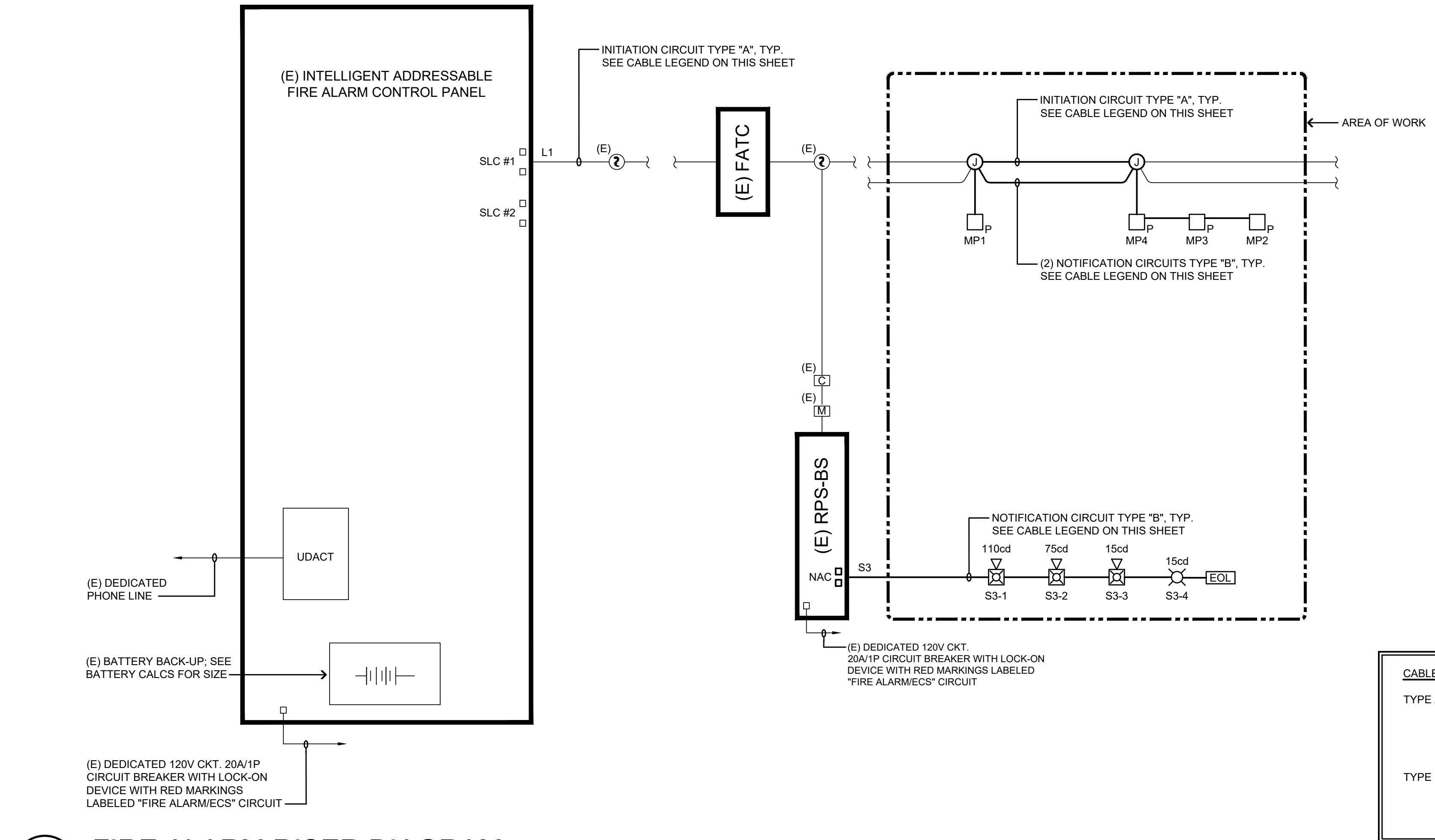
BATTERY CALCULATIONS

EXISTING FIRE ALARM CONTROL PANEL "FACP"					
QTY	DESCRIPTION	STANDBY		ALARM	
		EACH	TOTAL	EACH	TOTAL
1	(E) SMB-3 MAIN CONTROL BOARD	0.1750	0.1750	0.1750	0.1750
2	(E) ALD LOOP	0.0980	0.1960	0.0980	0.1960
2	(E) NAM-3 CIRCUIT	0.0700	0.1400	0.0700	0.1400
1	(E) MMB-4 ANNUNCIATOR KEY BOARD	0.0050	0.0050	0.0050	0.0050
1	(E) NAM-7PW NETWORK INTERFACE MODULE	0.0700	0.0700	0.0700	0.0700
1	(E) NAM-7PW NETWORK INTERFACE MODULE	0.0700	0.0700	0.0700	0.0700
1	(E) NAM-7PW NETWORK INTERFACE MODULE	0.0700	0.0700	0.0700	0.0700
PANEL STANDBY CURRENT			0.5400		
PANEL ALARM CURRENT				0.5400	

FIELD DEVICES						
QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
4	M89-108	ADDRESSABLE PULL STATION	0.0094	0.0316	0.0094	0.0316
DESCRIPTION			STANDBY		ALARM	
CONTROL PANEL			0.5400		0.5400	
FIELD DEVICES			0.0000		0.0400	
TOTAL STANDBY CURRENT			0.5400		0.5800	
24 HOUR STANDBY			15.1040		0.5400	
TOTAL ALARM CURRENT					0.5400	
15 MINUTES OF ALARM (X 25)					0.1365	
TOTAL BATTERY REQUIREMENT					15.2405	
SAFETY MARGIN (20%)					15.8880	
BATTERY SUPPLIED					(2) 12V 50AH	

EXISTING A/D LOOPS INCLUDE CURRENT DRAW FOR MAXIMUM NUMBER OF INITIATION DEVICES. THEREFORE ADDITIONAL DEVICES ADDED IN THIS PROJECT DO NOT CHANGE THE EXISTING BATTERY REQUIREMENT.

QTY	MODEL NO.	DEVICE DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	FCPS-2488	NOTIFIER REMOTE POWER SUPPLY	0.0750	0.0750	0.0750	0.0750
1	S2	NOTIFICATION CIRCUIT NO. 3	0.0000	0.0000	0.0000	0.0000
1	S2	EXISTING NOTIFICATION CIRCUIT NO. 2	0.0000	0.0000	0.0000	0.0000
1	S1	EXISTING NOTIFICATION CIRCUIT NO. 1	0.0000	0.0000	0.0000	0.0000
1	SPARE	SPARE	0.0000	0.0000	0.0000	0.0000
PANEL STANDBY CURRENT				0.0750		
PANEL ALARM CURRENT					2.2520	
TOTAL SYSTEM CURRENT						
DESCRIPTION			STANDBY		ALARM	
24 HOUR STANDBY			0.0750		1.9000	
TOTAL ALARM CURRENT (S)					2.2520	
15 MINUTES OF ALARM (X 25)					0.5630	
TOTAL BATTERY REQUIREMENT (A-H)					2.5030	
SAFETY MARGIN (20%)					2.8035	
BATTERY SUPPLIED (2) 7AH					7AH	



CABLE LEGEND	
TYPE A =	DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE B =	DENOTES NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

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

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Renovation
2700 EAST LELAND ROAD
PITTSBURG, CA 94505

PROJECT NO:
121030

DRAWN BY:
CADD

CHECKED BY:
NA

PROJECT MGR:
ARCHITECTURAL

APPROVED BY:
Approver

SHEET TITLE

FIRE ALARM RISER DIAGRAM,
BATTERY & VOLTAGE DROP
CALCULATIONS

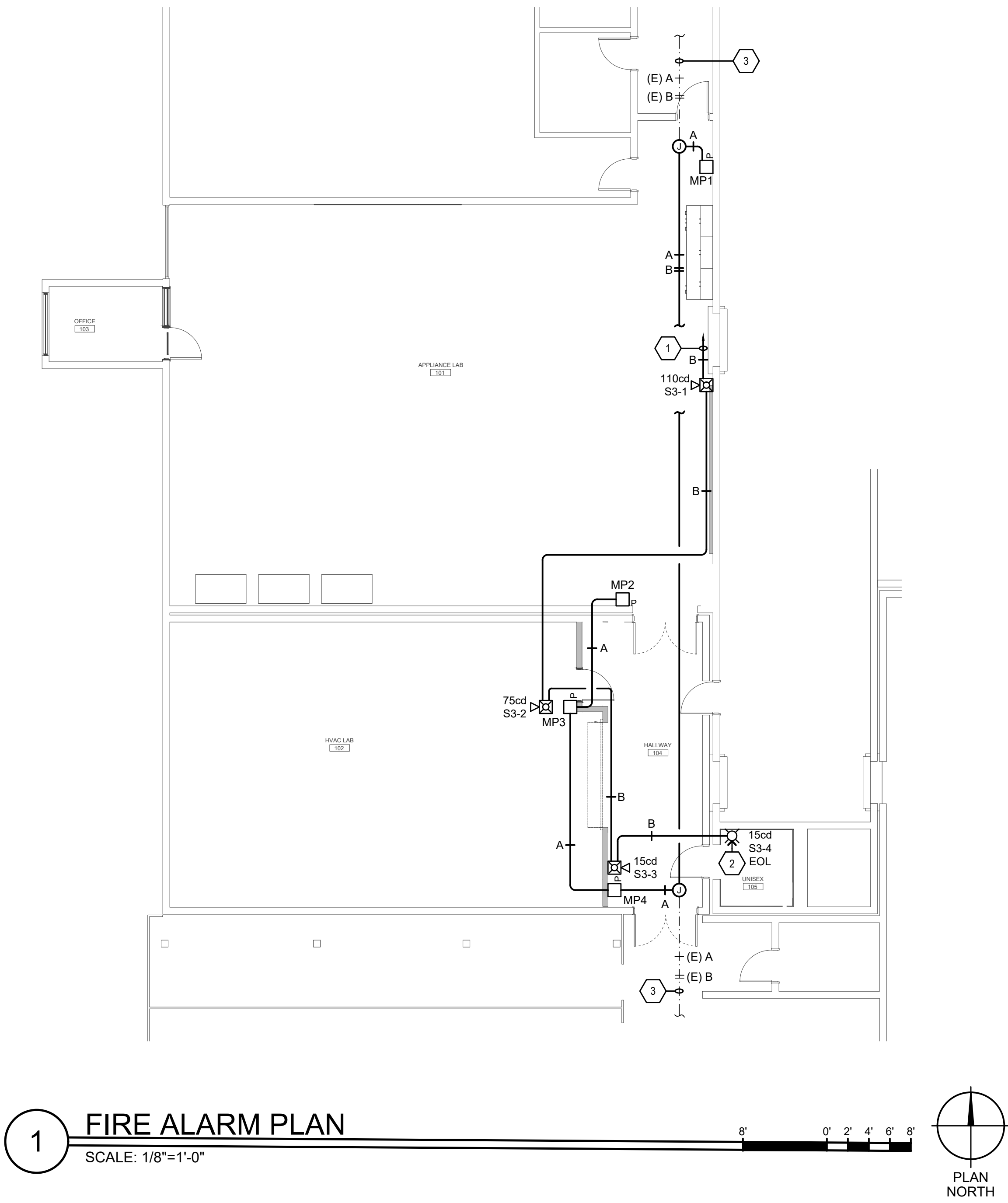
SHEET NUMBER

FA1.1

ISSUE

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SHEET NOTES

1. HOMERUN TO EXISTING RPS-B5. SEE 1/FA2.1 FOR LOCATION.

2. PROVIDE & INSTALL LAMICOID NAME PLATE READING "EOL".

3. EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES NOT IN SCOPE OF WORK SHALL REMAIN ACTIVE. CONTRACTOR SHALL ENSURE A FULLY FUNCTIONAL SYSTEM WITH EXISTING AND NEW FIRE ALARM DEVICES. INTERCEPT CIRCUITS AT EACH END AND ENSURE FULL FUNCTIONALITY OF ALL UPSTREAM/DOWNSTREAM DEVICES LOCATION IN AREAS NOT PART OF DEMOLITION WORK.

CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

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PITTSBURG, CA 94565

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121030

DRAWN BY:

CADD

CHECKED BY:

NA

PROJECT MGR:

ARCHITECTURAL

APPROVED BY:

Approver

SHEET TITLE

FIRE ALARM PLAN

SHEET NUMBER

FA4.1

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1/1

SCALE CHECK