



1 ACCESSIBLE PARKING

EXISTING CURB RAMP

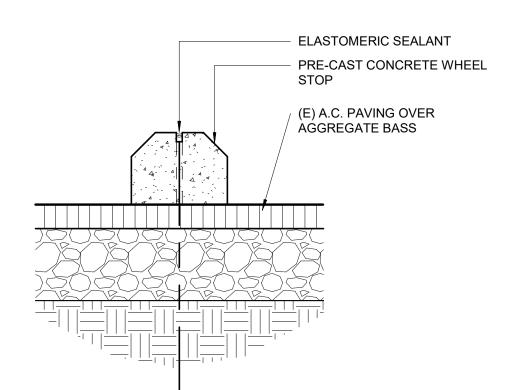




EXISTING STRIPING

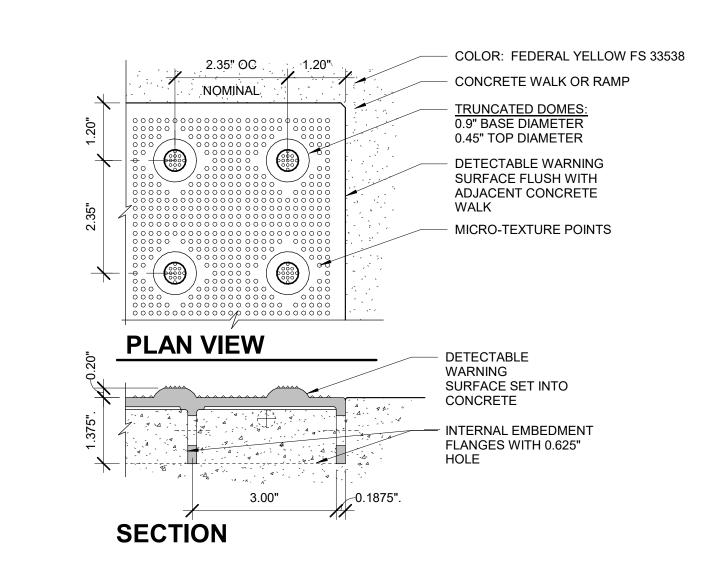


EXISTING ACCESSIBLE PARKING SIGNAGE SWITCH SIGNS ON POSTS



#4 x 24" LONG REBAR AT THIRD POINTS; DRIVE TOP OF REBAR 1/2" TO 3/4" BELOW SURFACE OF BUMPER AND GROUT FLUSH

3 WHEELSTOP



2 TRUNCATED DOMES

DSA STAMP **IDENTIFICATION STAMP** IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-118866 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: <u>07/09/2020</u>

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

500 COURT STREET MARTINEZ, CA

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IBI Group - A California Partnership is a member of the IBI Group of companies

DESCRIPTION

CONSULTANTS



PRIME CONSULTANT

IBI GROUP
333 W. San Carlos St., Suite 600
San Jose, CA 95110, USA
tel 408 924 0811 fax 408 924 0844
ibigroup.com

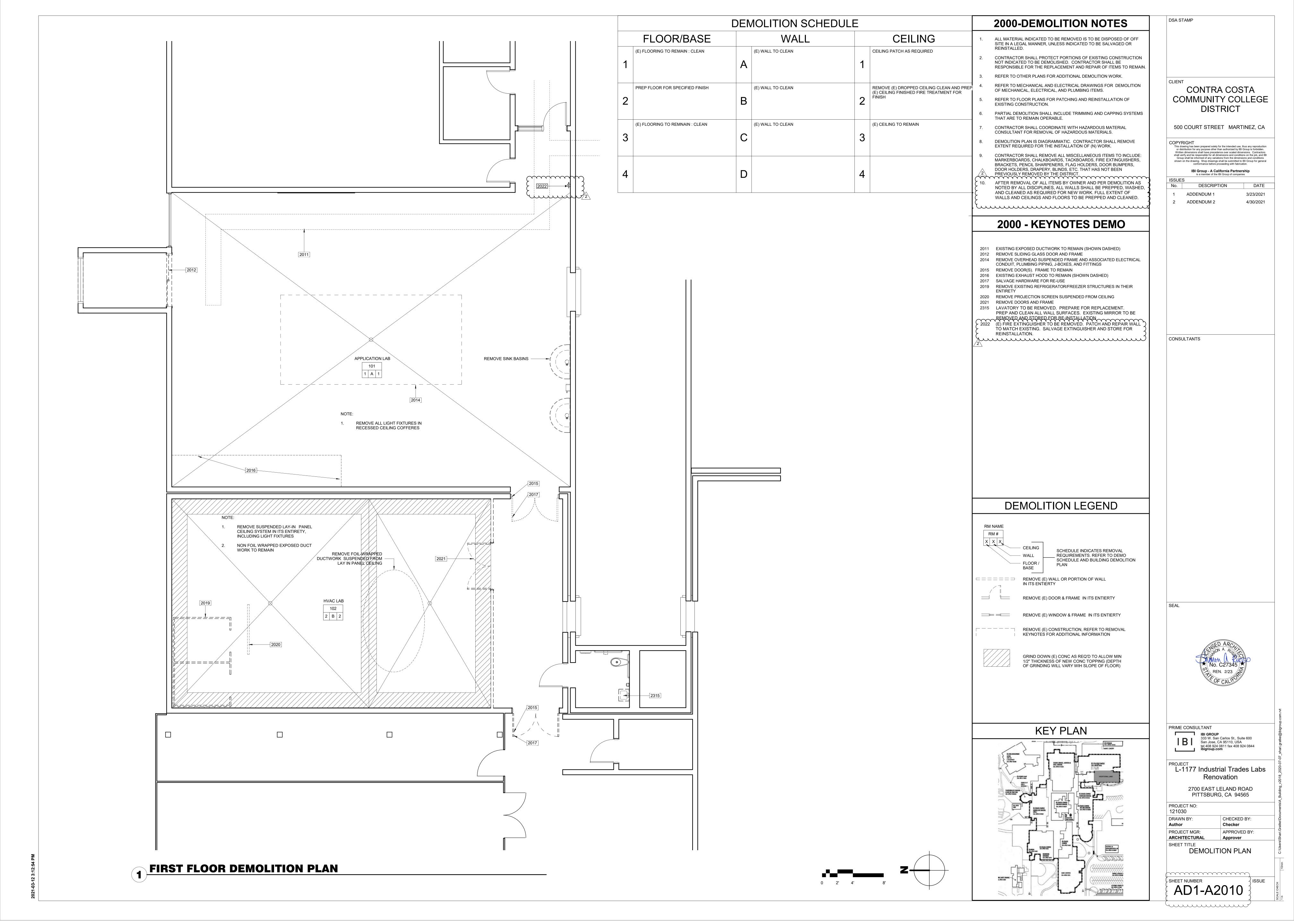
PROJECT
L-1177 Industrial Trades Labs Renovation

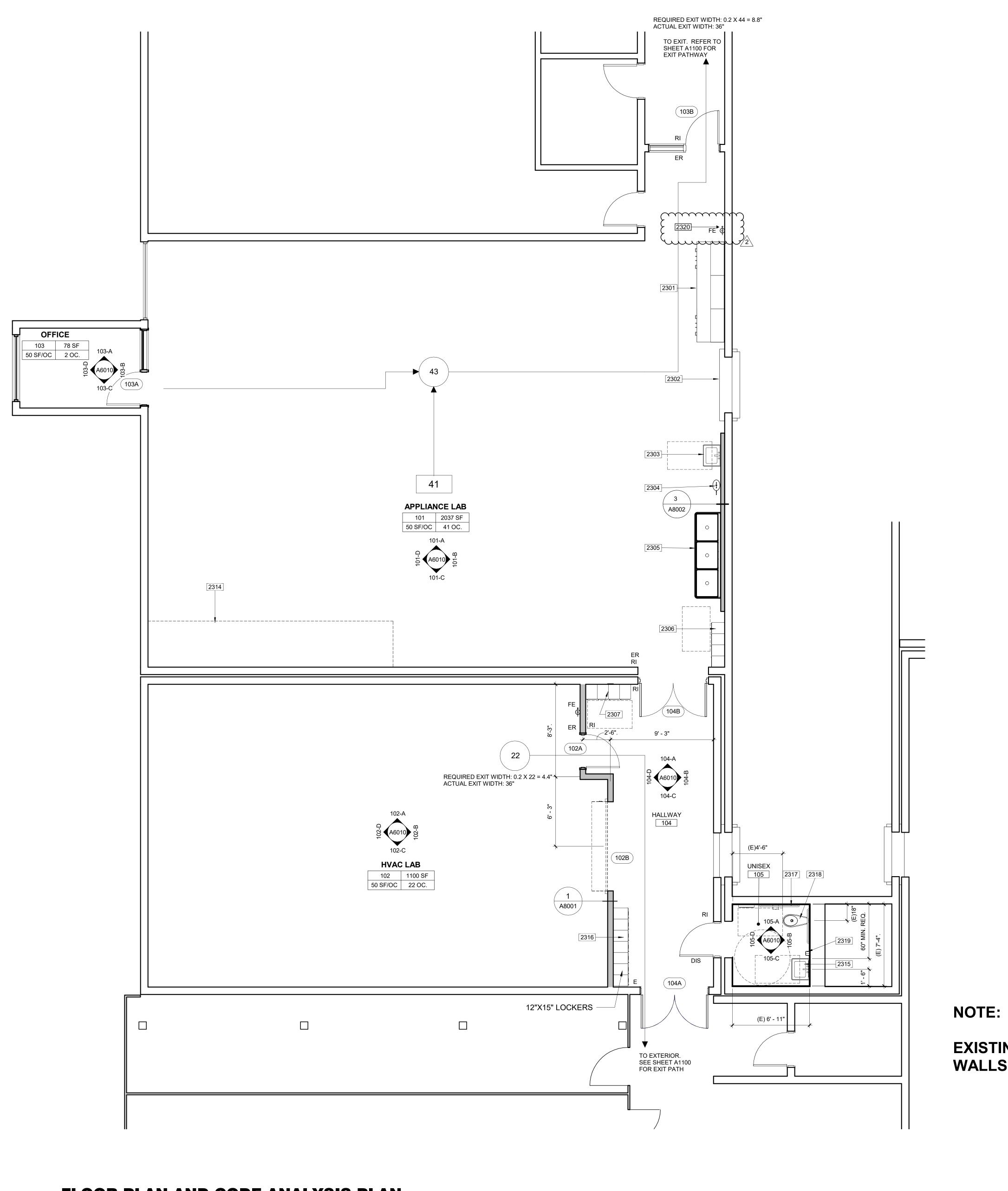
2700 EAST LELAND ROAD PITTSBURG, CA 94565

PROJECT NO: 121030 DRAWN BY: CHECKED BY:

PROJECT MGR: APPROVED BY: SHEET TITLE
ACCESSIBLE ELEMENTS

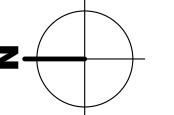
SHEET NUMBER A1101





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





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DESCRIPTION

ADDENDUM 2

CONSULTANTS

IBI Group - A California Partnership

4/30/2021

2300- KEYNOTES

2300-GENERAL NOTES

REFER TO SHEET A9101 FOR FINISH SCHEDULE.

REFER TO DEMOLITION PLAN, A2010 FOR EXISTING CONSTRUCTION TO

REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND

munimunimund

PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT.

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
2320 RE-INSTALL (E) FIRE EXTINGUSHER. Cummund

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

60" X 60" ACCESSIBLE FLOOR SPACE LOCATION

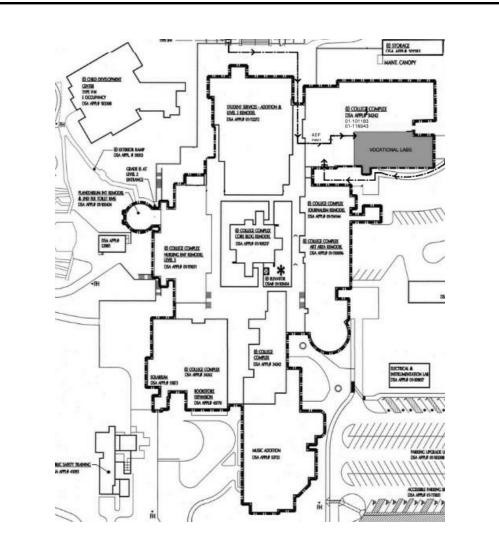
30" X 48" ACCESSIBLE FLOOR SPACE LOCATION

ROOM IDENTIFICATION SIGN DOOR IDENTIFICATION SIGN

EXIT ROUTE

KEY PLAN

FIRE EXTINGUISHER



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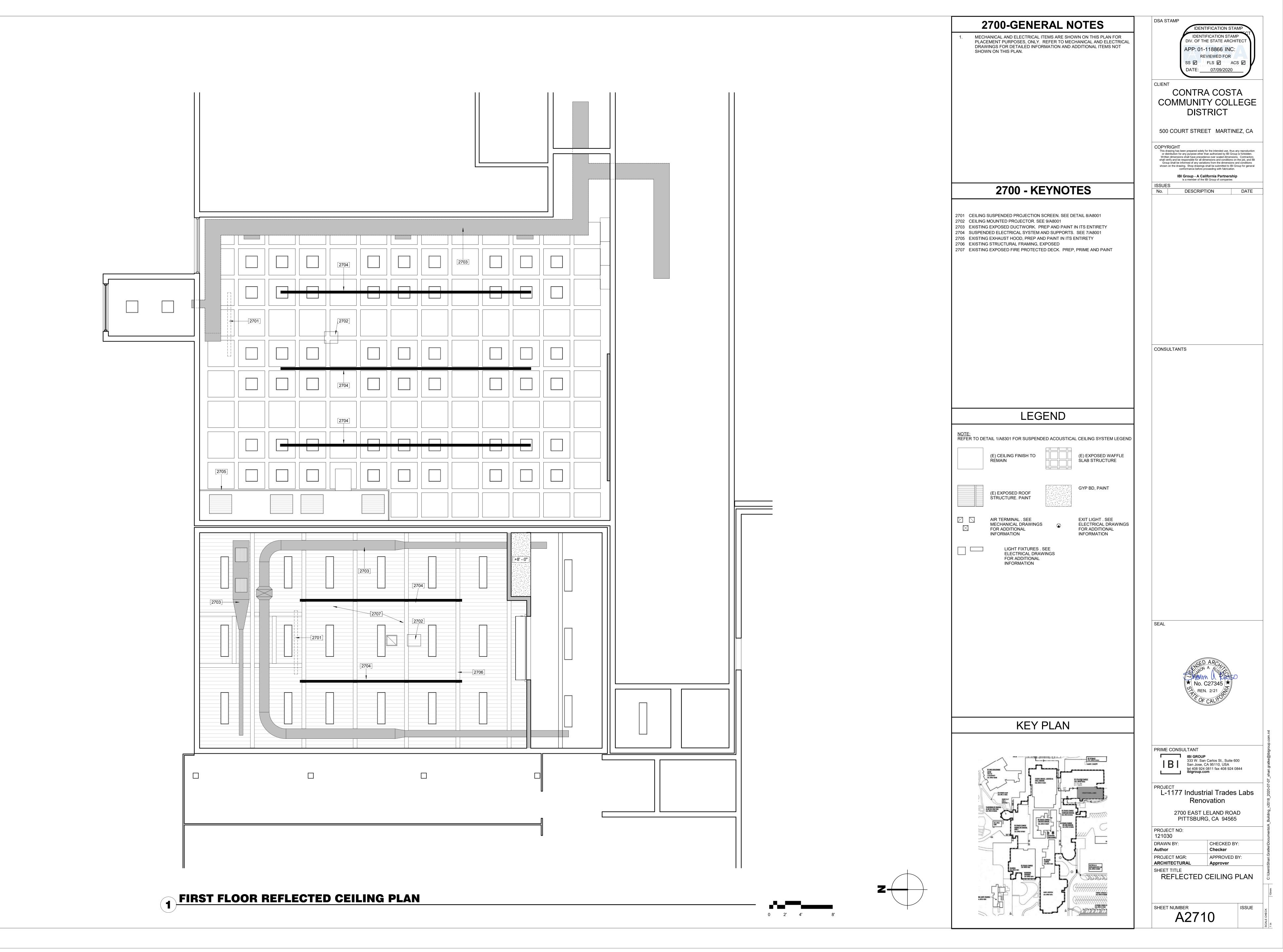
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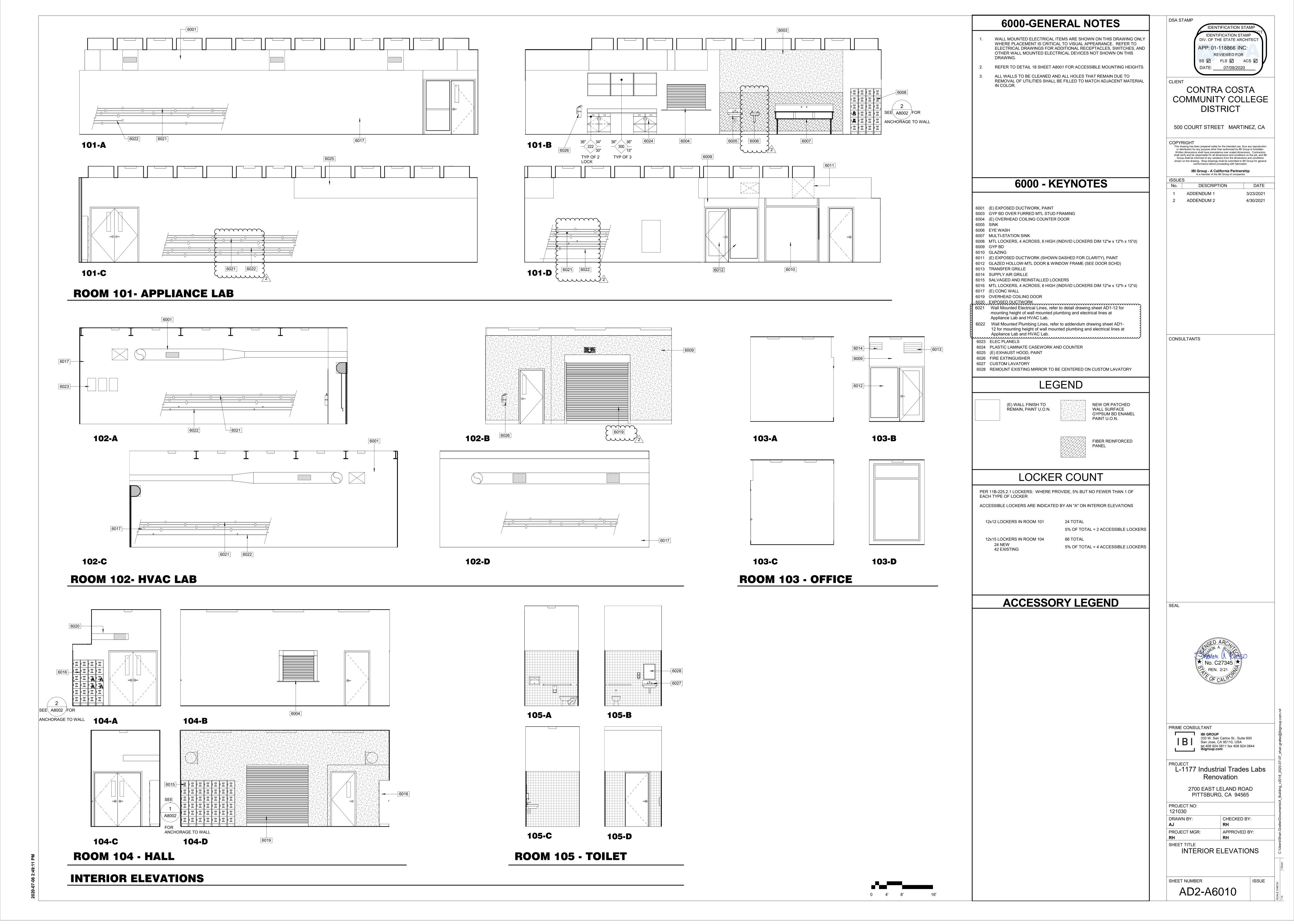
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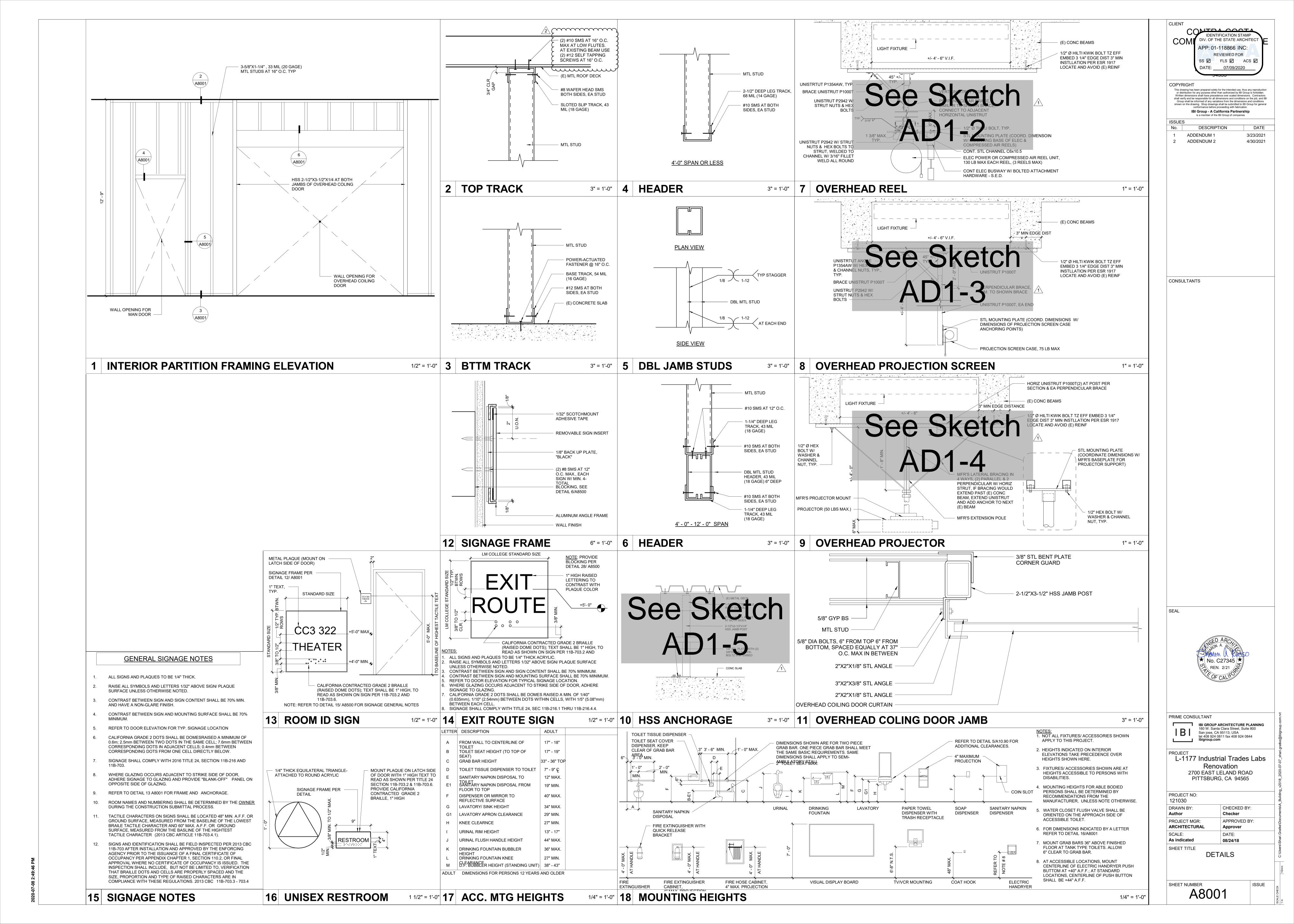
PROJECT MGR: APPROVED BY: SHEET TITLE
FLOOR PLAN AND CODE
ANALYSIS PLAN

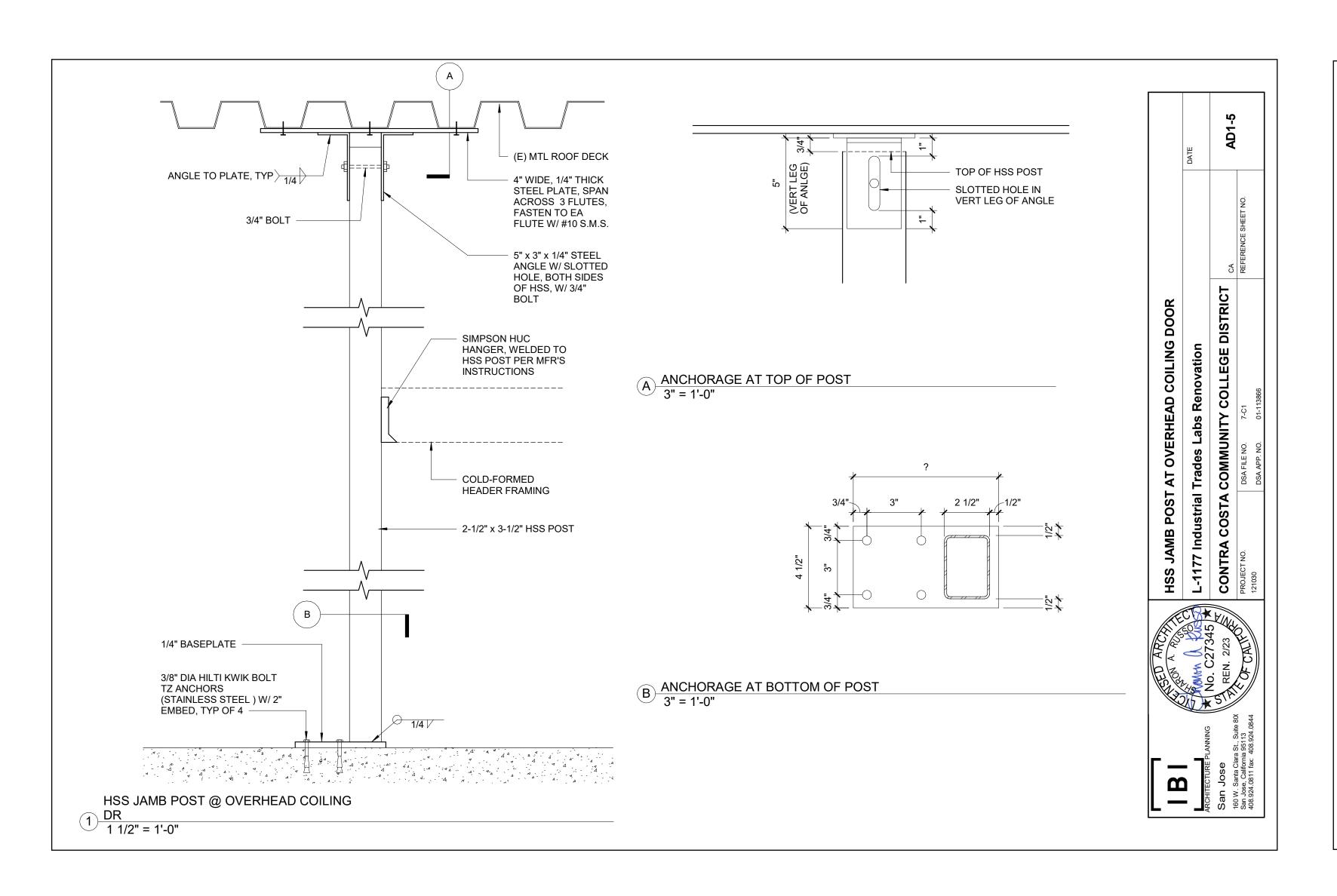
A2310

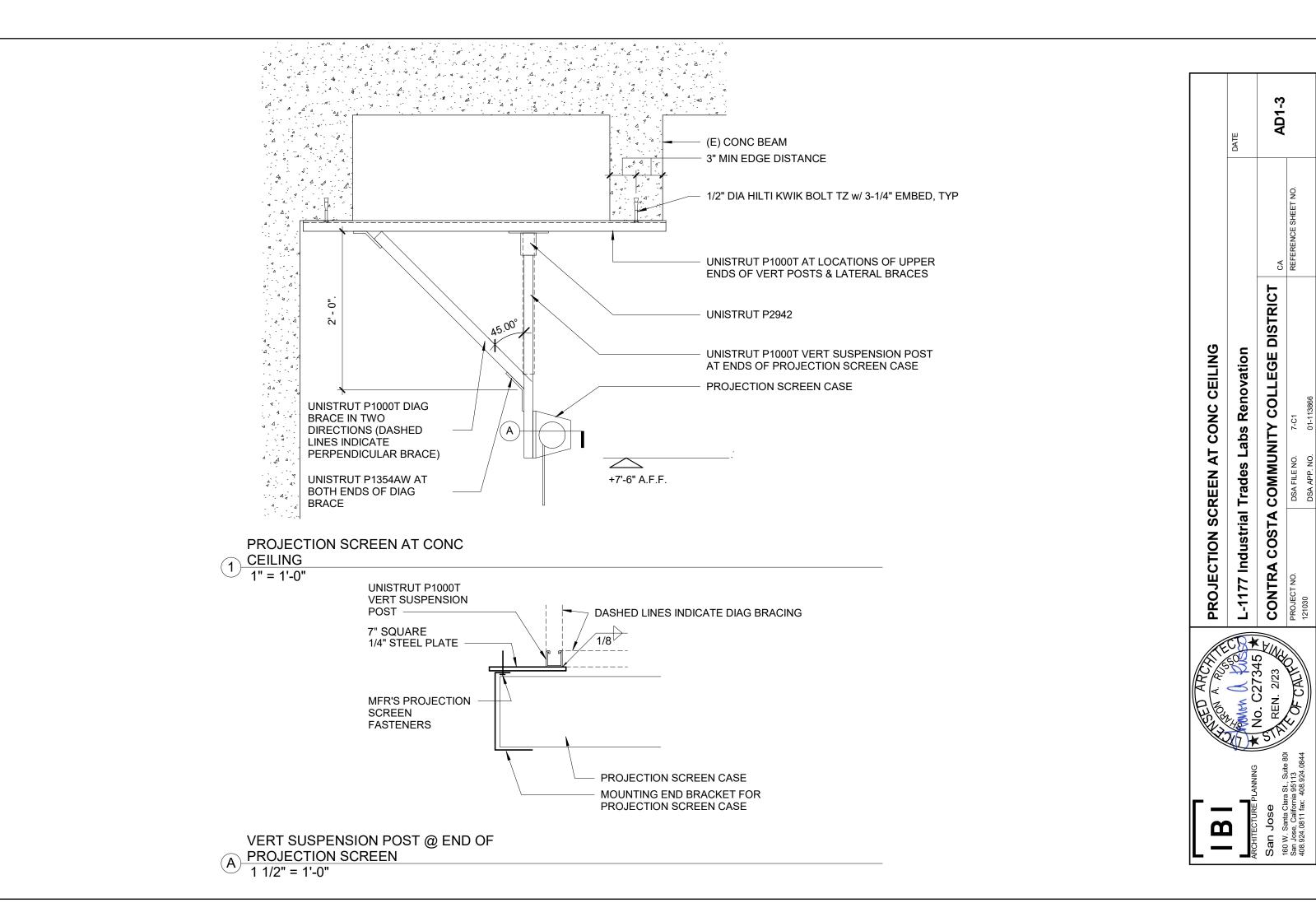
1 FLOOR PLAN AND CODE ANALYSIS PLAN

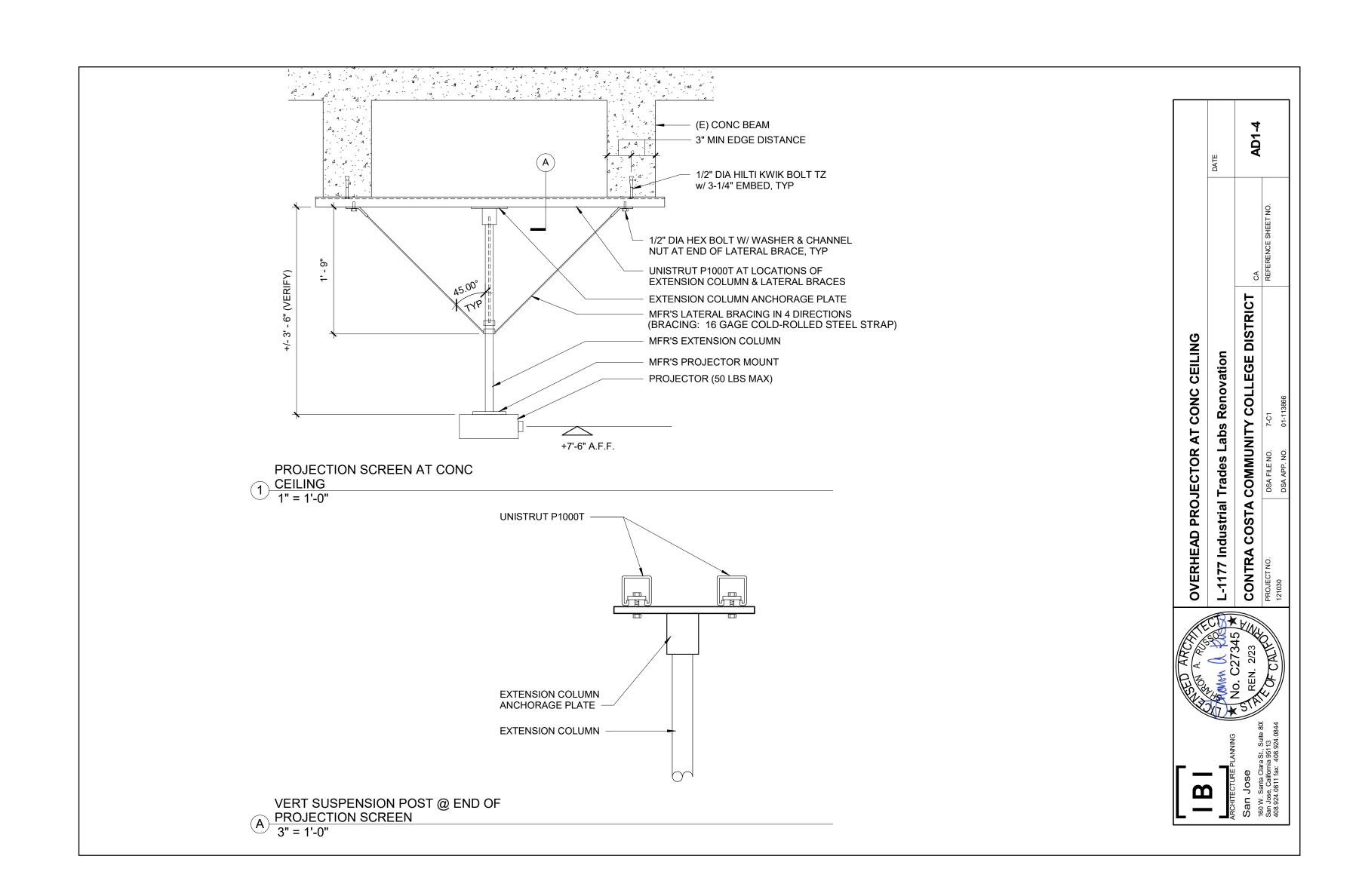


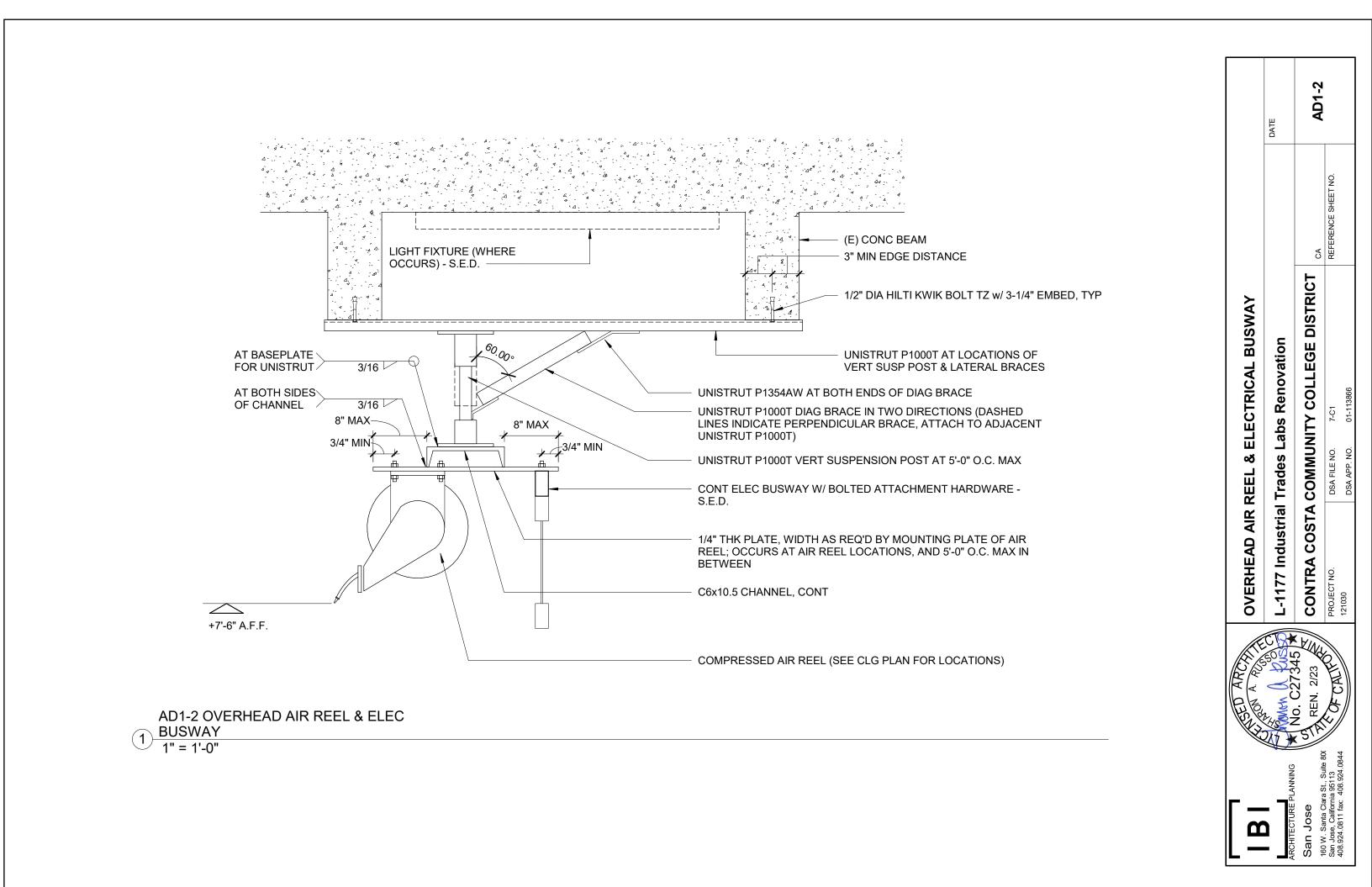


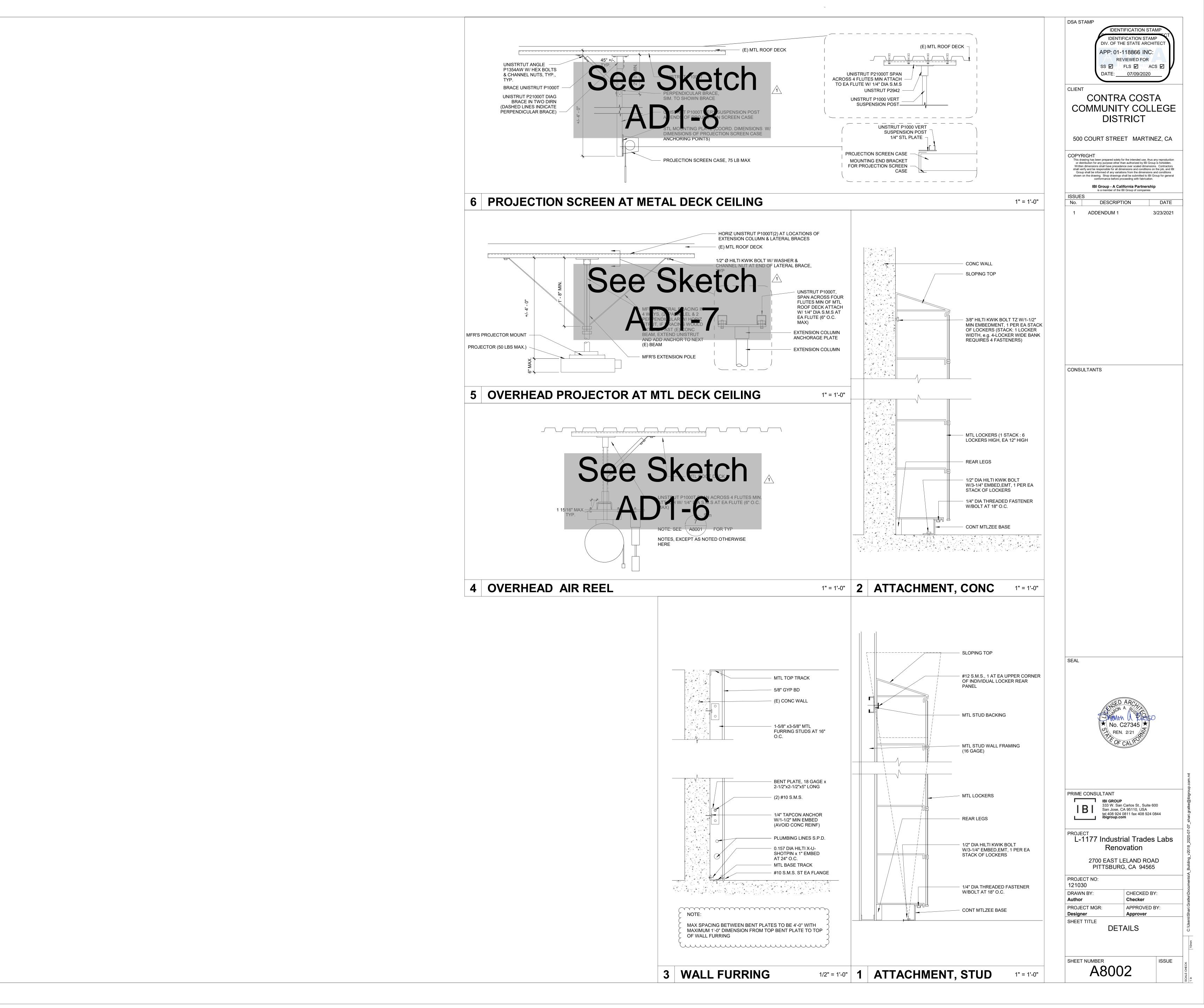


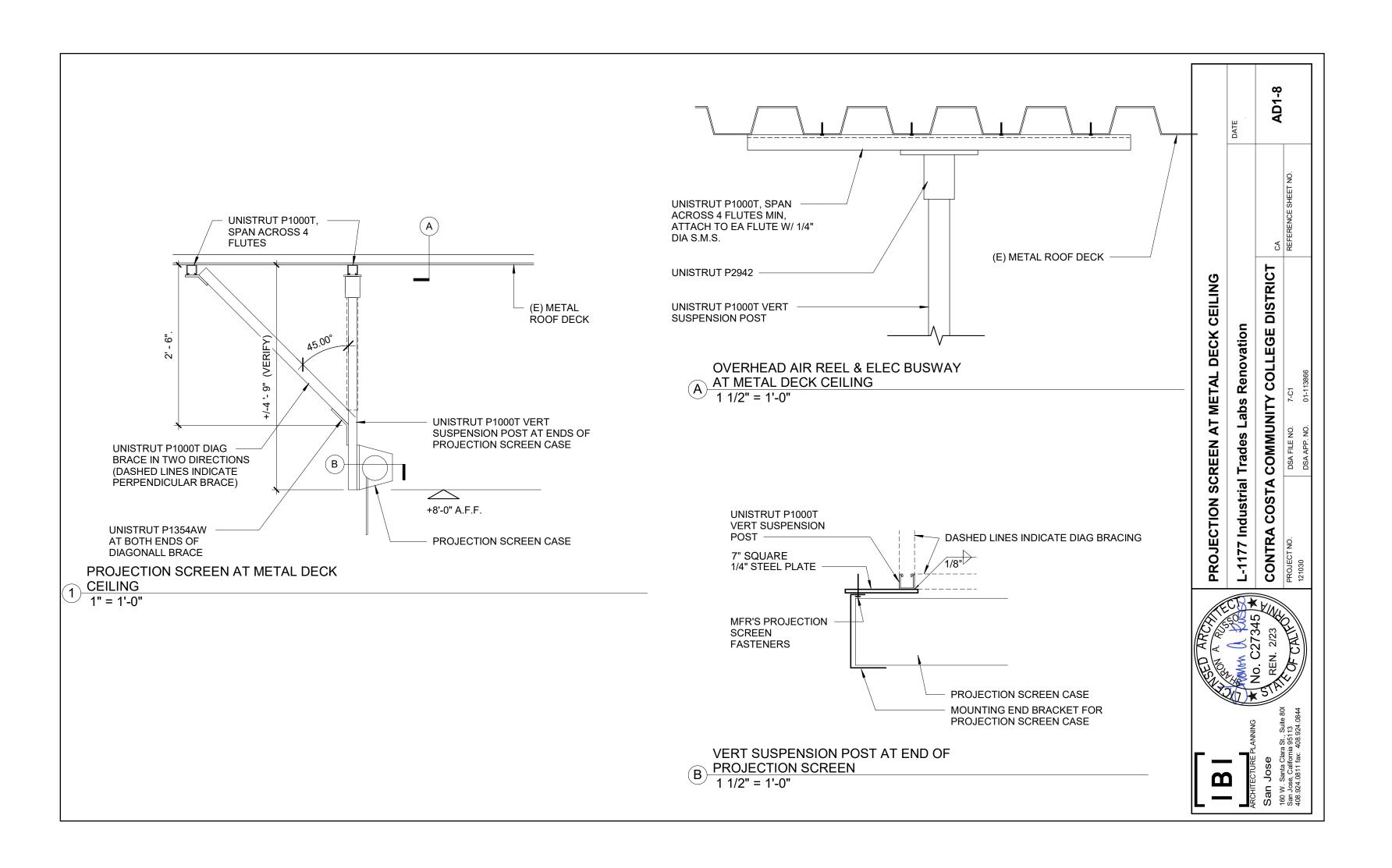


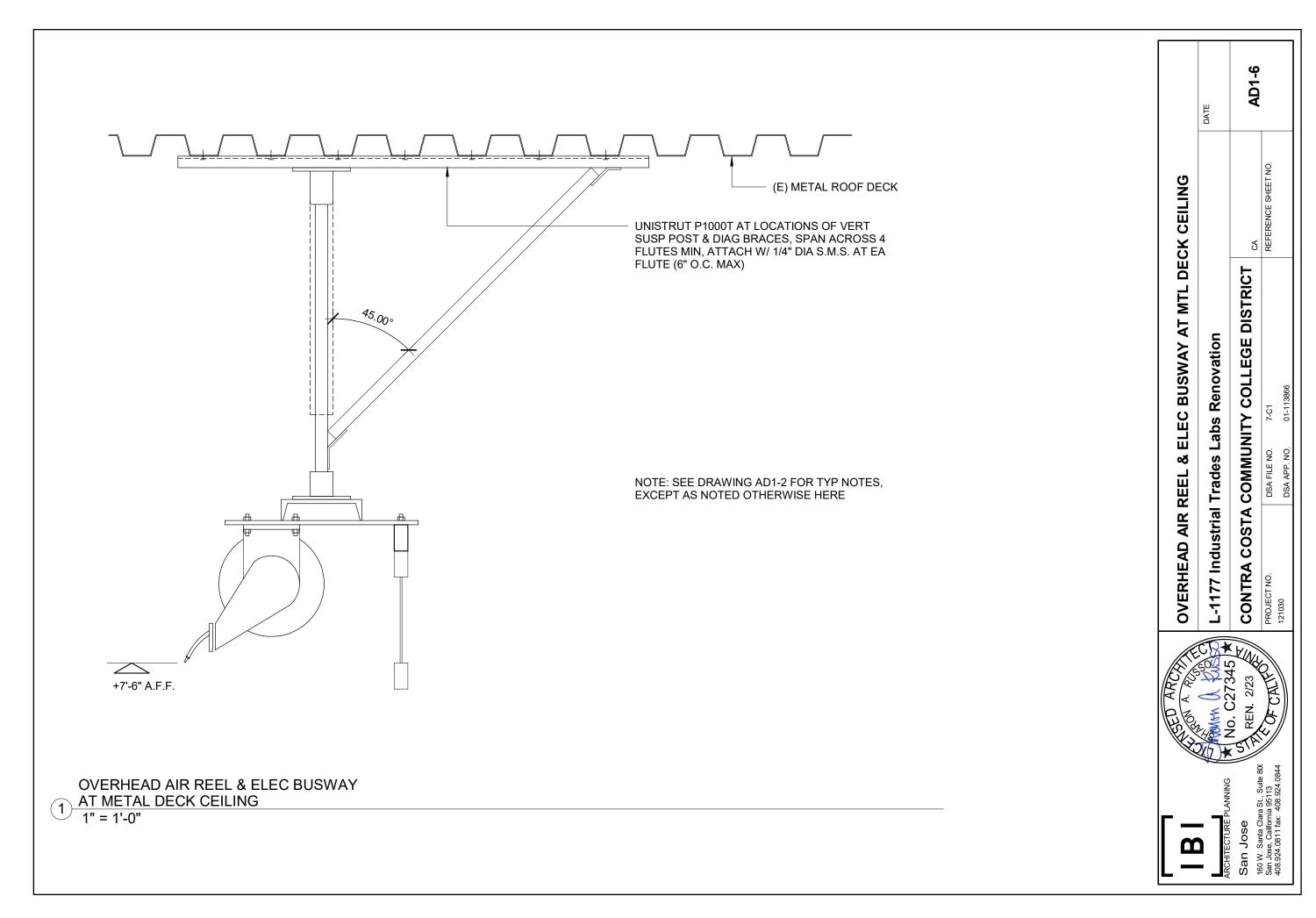


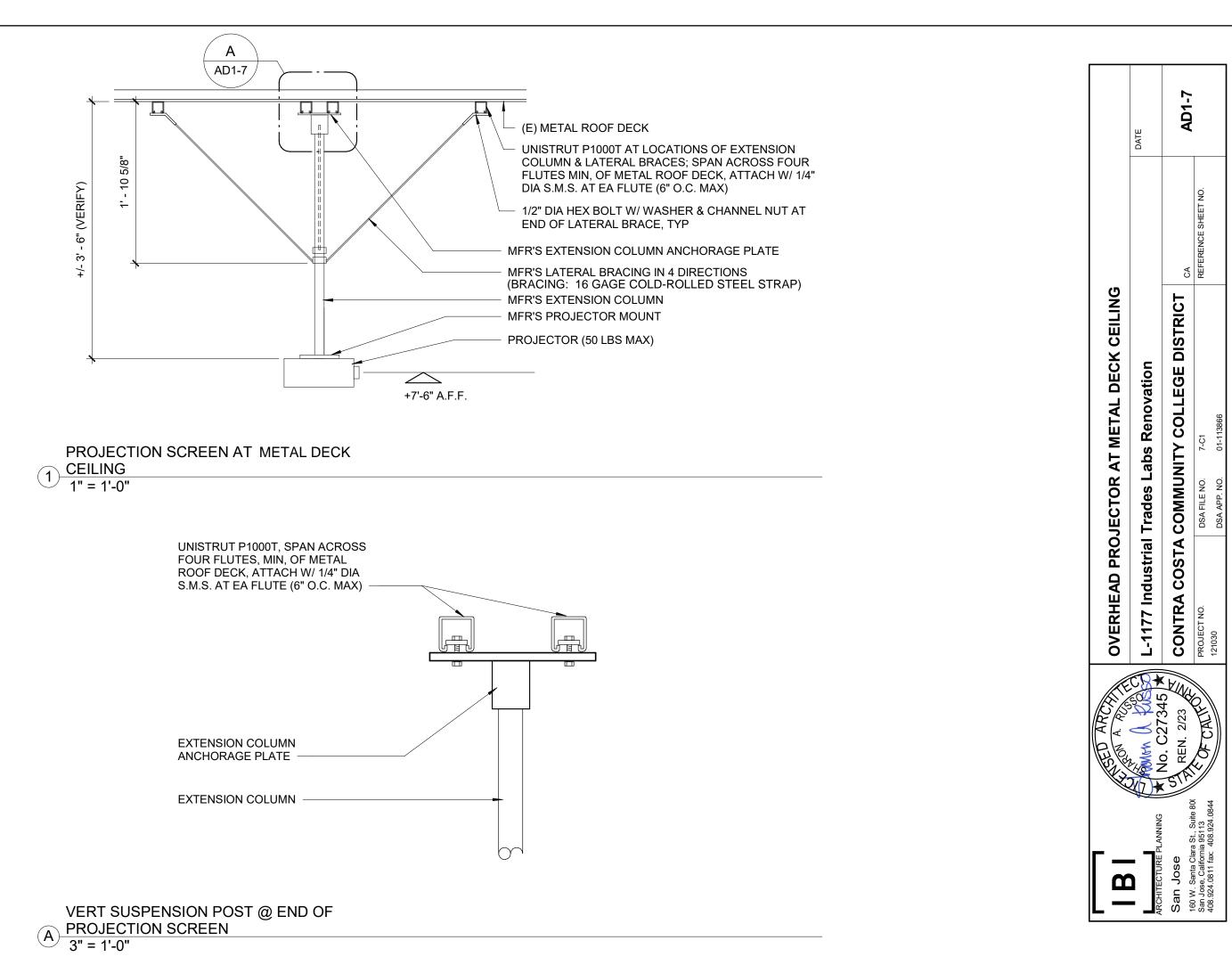


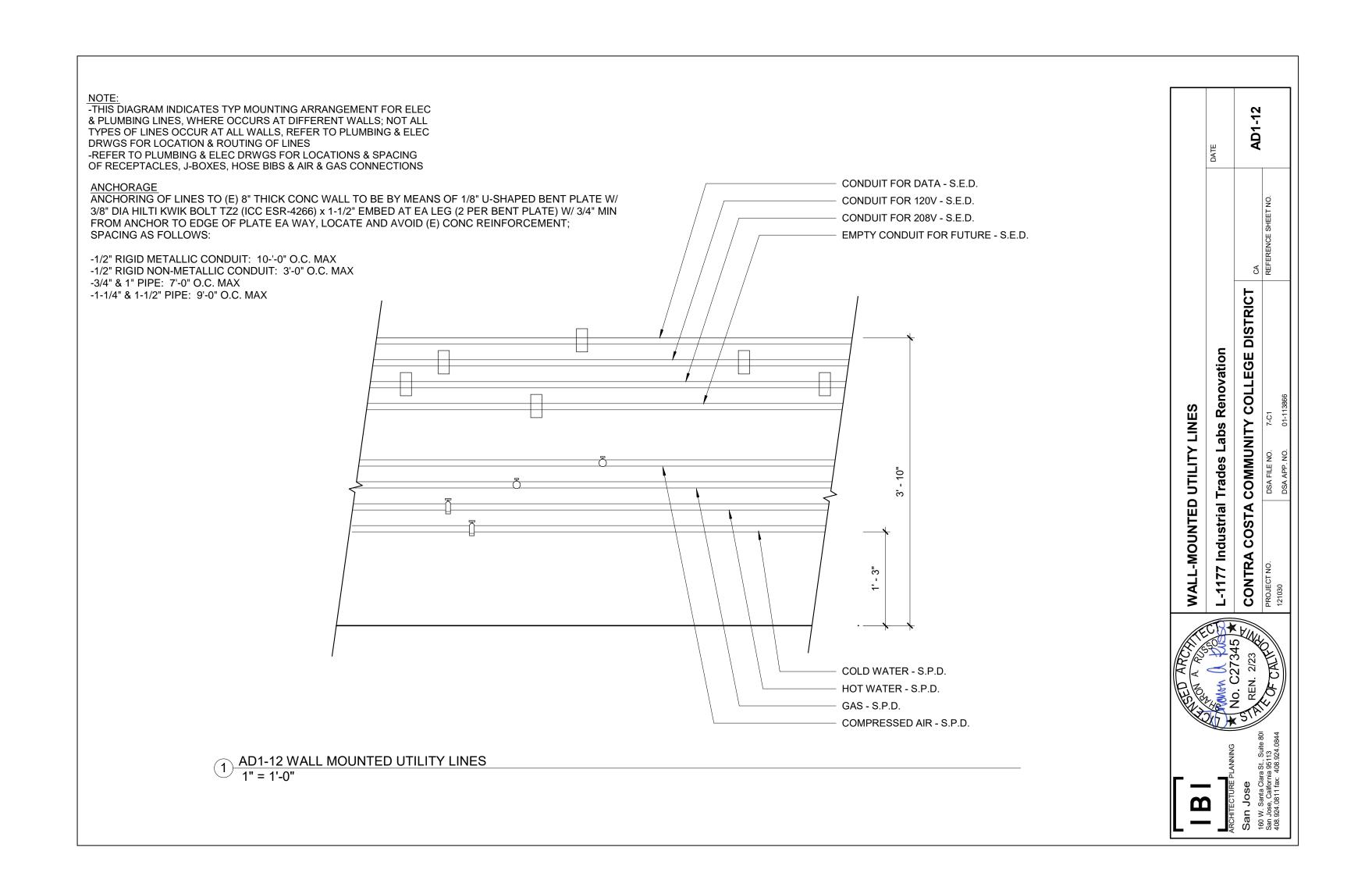


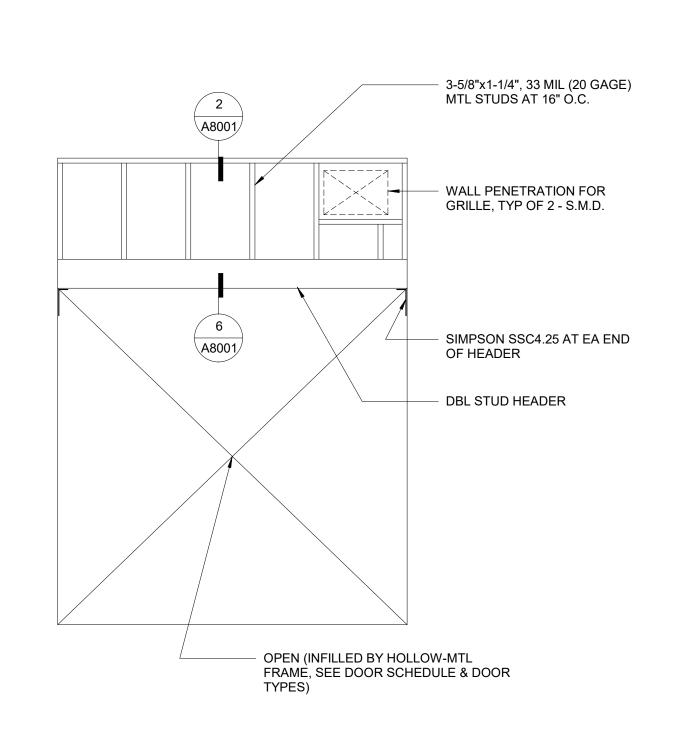




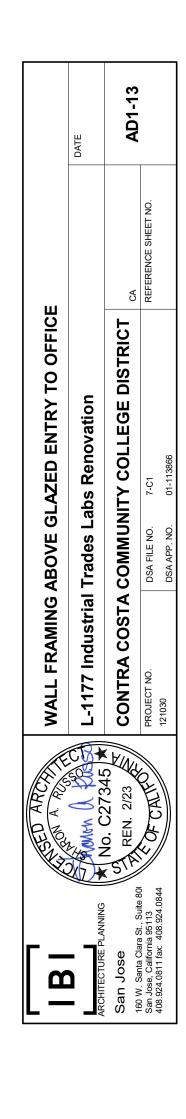


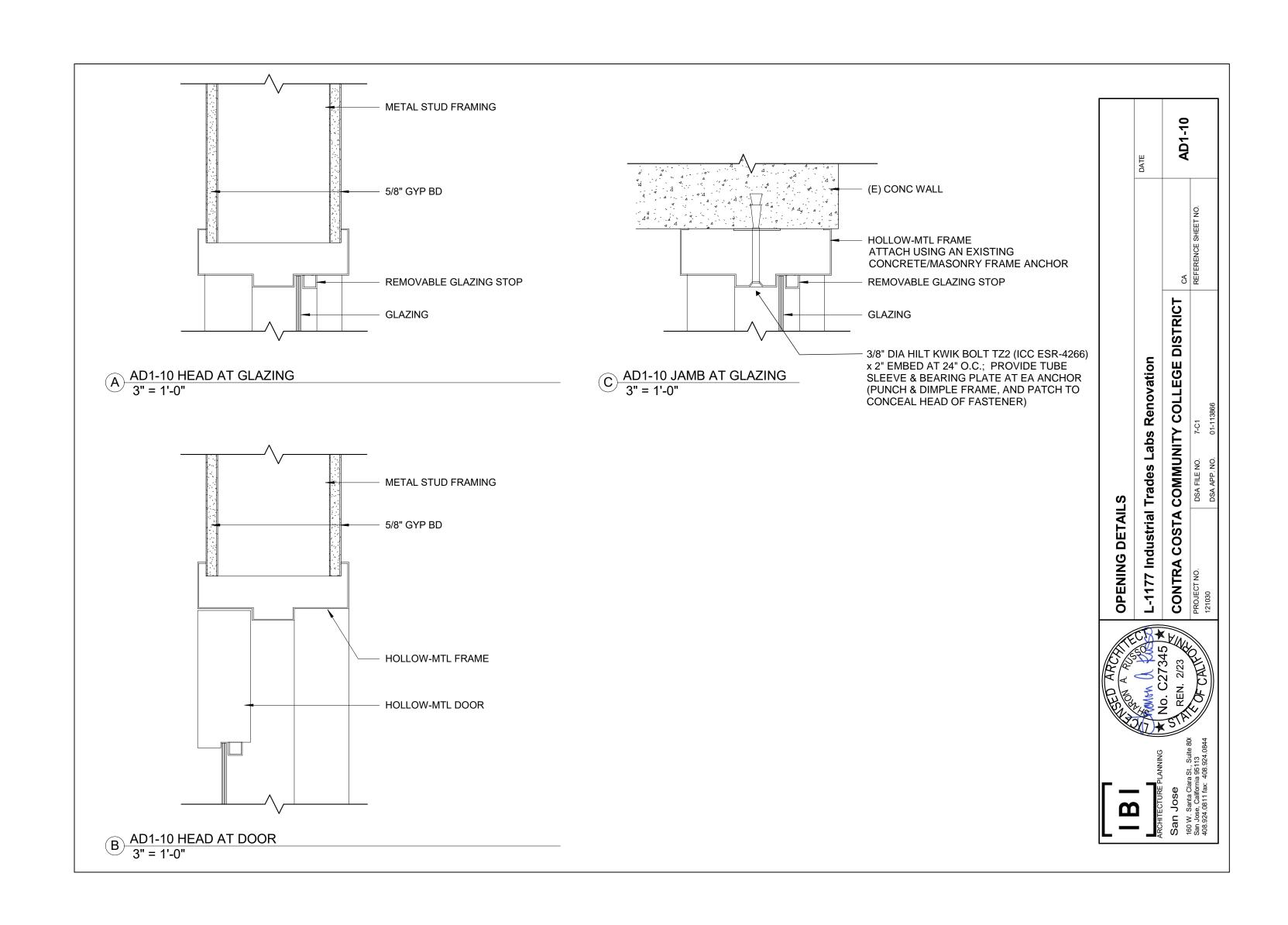


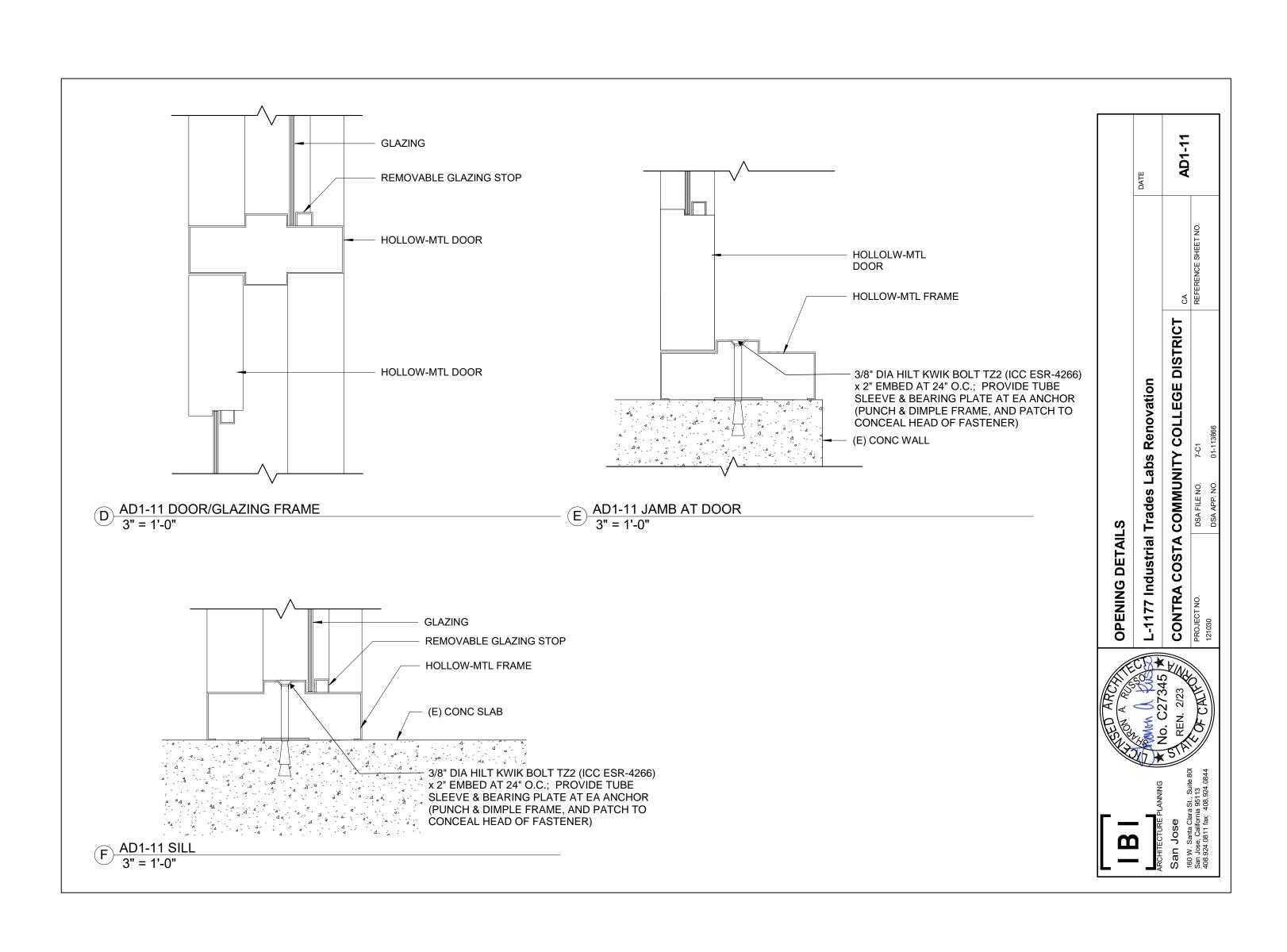


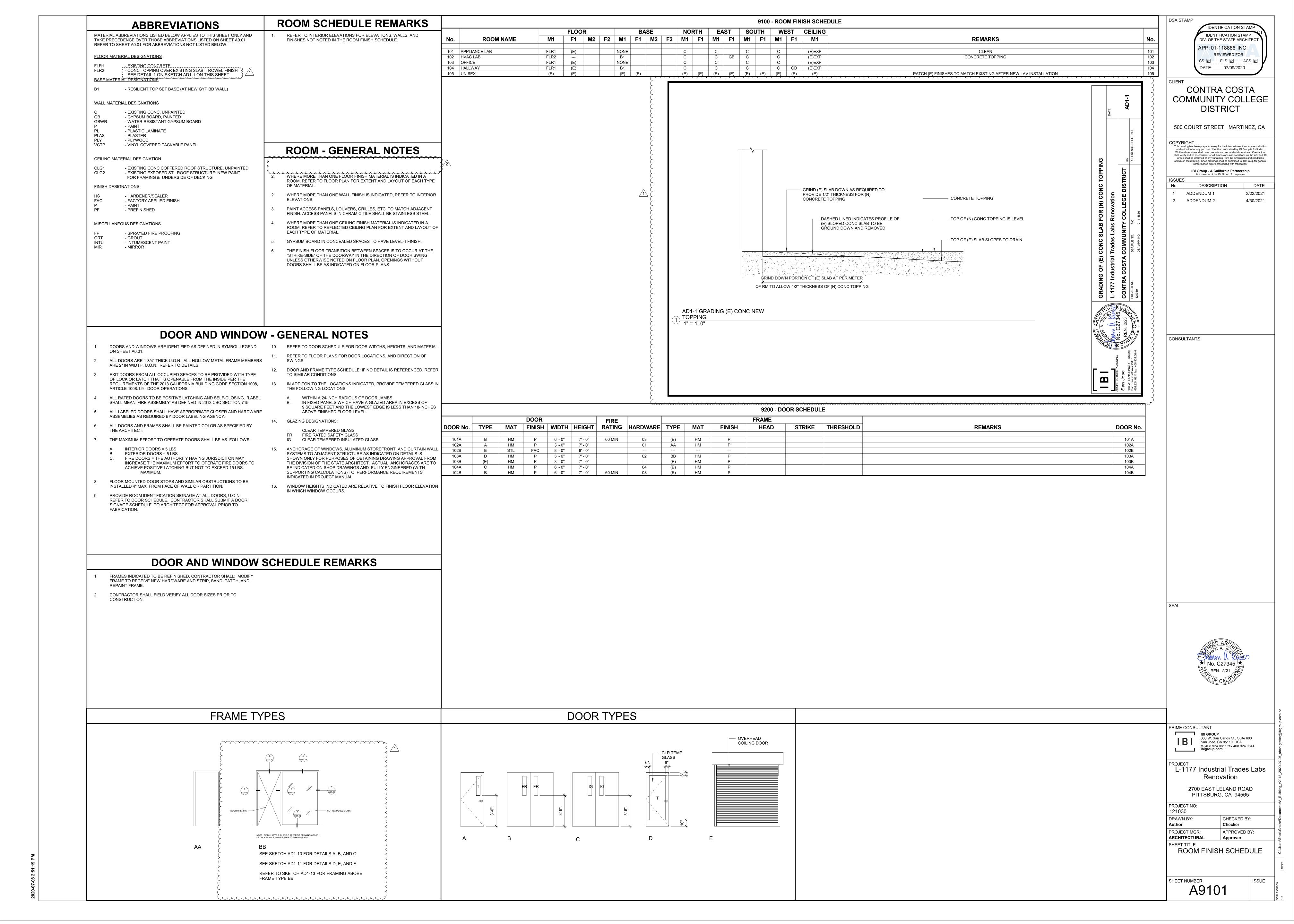


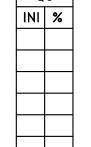












MECHANICAL GENERAL NOTES

- . ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- 2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- 4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
- 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
- 7. 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.
- 8. (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.
- 9. THERMOSTAT TO BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TOP OF THERMOSTAT), DO NOT INSTALL THERMOSTAT OVER CASEWORK OR SHELVING OVER 24" IN DEPTH & 34" IN HEIGHT.

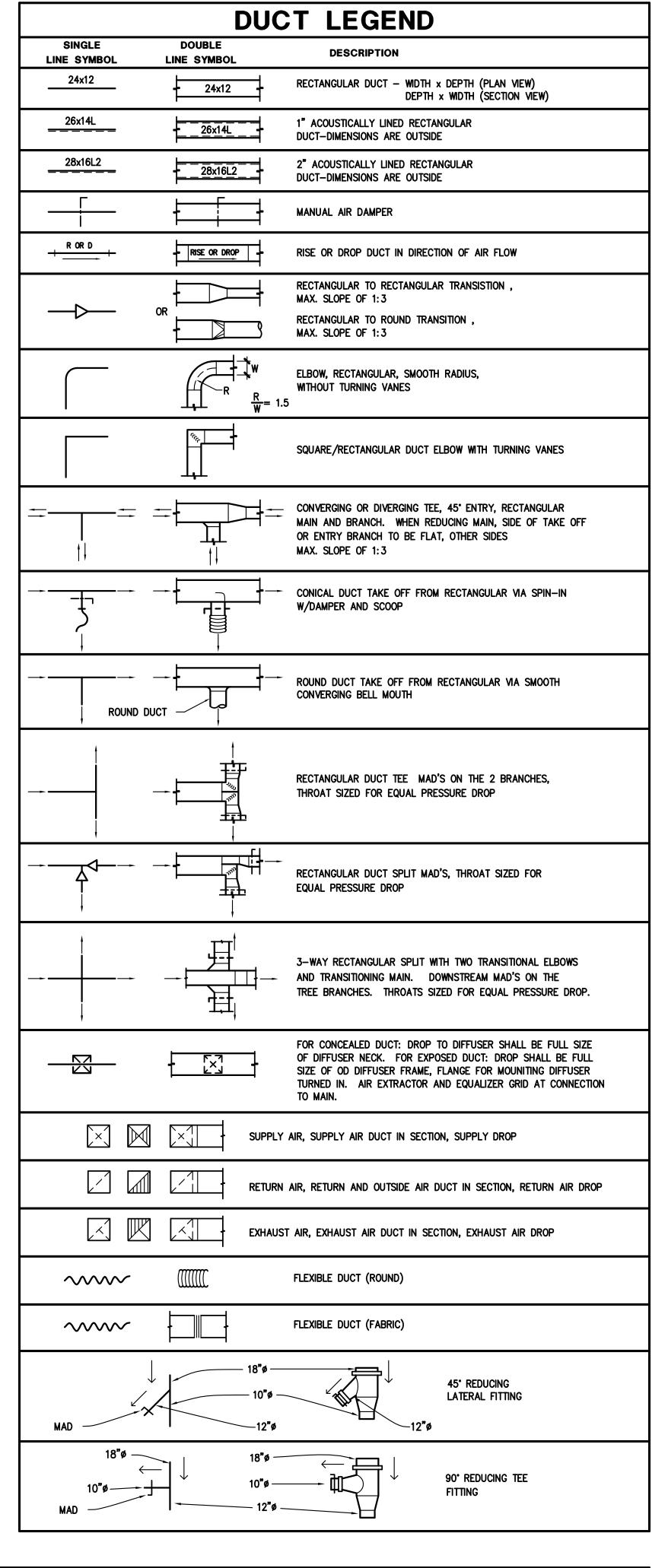
| SYMBOL | USER, REG | KRUEGER | METALAIRE | NAILOR | TITUS |
|-----------|--|---------|-----------|--------|--------|
| s* × | DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING | 880 V | V 4004 S | 61 DV | 300 RS |
| R & E* | RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS. | S 80 H | SRH | 7145 H | 350 RL |
| SDS & SDR | 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: 1. ALL SYMBOLS NOTED MAY NOT BE USED.

UNLESS SHOWN OTHERWISE.

- REFER TO PLANS FOR SIZE AND QUANTITY.

 2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW
- 3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
- * ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS
- 4. COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.
- 5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR
- 6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.



| | | | | | EXH | HAUS | T F | AN | SCHI | EDI | ULE | | |
|------------|-----------------------------|--|----------|---------------------|------|---------|------------|------------|--------------|------------------------|--------------------------|--------------------|-------|
| UNIT | SERVES | "GREENHECK" Model No. U.N.O. | CFM | SP (IN. W.G.) | DUTY | STYLE | RPM | НР | VOLT/PH | OPER. WT. (LBS.) | INTERLOCK TO RUN WITH | MOUNTING DETAIL | NOTES |
| REF 101 | VOCATIONAL LAB 101 | G-180-VG | 4,400 | 0.5 | E | RED | 840 | 0.75 | 208/1 | ۱ ' <i>`</i> | EMS TIMECLOCK | <u>2</u> M5001 | 123 |
| NOTES: | D- ROOF EXHAL PROVIDE WITH | J1\ UST DOWNBLAST, REU- H THERMAL OVERLOAD F H FACTORY BACKDRAFT | PROTECTI | ED MOTO | | (3) REF | FER TO CON | TROL DIAGF | RAM 3/M5001. | ~ <u>/</u> | | | |

| | | NICAL LEGEND |
|-----------------|---------------|--|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| | ABV | ABOVE |
| | ABC | ABOVE CEILING |
| | AF | ABOVE FLOOR |
| | AFF | ABOVE FINISHED FLOOR |
| | AFG | ABOVE FINISHED GRADE |
| | AD , AP AC | ACCESS DOOR , ACCESS PANEL AIR CONDITIONING |
| | APD | AIR PRESSURE DROP, INCHES WATER COLUMN |
| | AB | ANCHOR BOLT |
| | BDD | BACK DRAFT DAMPER |
| | BF | BELOW FLOOR |
| | BHP | BRAKE HORSE POWER |
| DDT | BTU(H) | BRITISH THERMAL UNITS (PER HOUR) |
| BPT | BPT CC | BYPASS TIMER |
| | CLG | CENTER TO CENTER CEILING |
| | CEF | CEILING CEILING EXHAUST FAN |
| | CLR | CLEAR |
| | CONC | CONCRETE |
| ─── | | CONCENTRIC REDUCER |
| —— CD —— | CD | CONDENSATE DRAIN |
| | COND | CONDENSER |
| | CONN CONT | CONNECT OR CONNECTION CONTINUATION |
| | CONTR | CONTRACTOR |
| f | CFM | CUBIC FEET OF AIR FLOW PER MINUTE |
| • | DPR | DAMPER |
| ° F | | DEGREES FAHRENHEIT |
| ø | DIA | DIAMETER , PHASE |
| | DL | DOOR LOUVER |
| | DN | DOWN |
| | DR DB | DRAIN DRY BULB (DEGREES FAHRENHEIT) |
| DS | DS | DYNAMIC SENSOR |
| | 55 | ECCENTRIC REDUCER |
| | EP | ELECTRICAL PANEL |
| | EL | ELEVATION |
| | ENT | ENTERING |
| | EDB | ENTERING DRY BULB |
| | EW | ENTERING WATER TEMPERATURE |
| | EWT EWB | ENTERING WATER TEMPERATURE ENTERING WET BULB |
| | EVAP | EVAPORATOR |
| | EC | EVAPORATIVE COOLER |
| | EA | EXHAUST AIR |
| | EAD | EXHAUST AIR DAMPER |
| | EF (5) 5105 | EXHAUST FAN |
| | (E), EXIST | EXISTING EXISTING TO BE BENOVED |
| — × — × — | (E) (F) | EXISTING TO BE REMOVED EXISTING TO BE ABANDONED |
| | (E) (E) | EXISTING TO BE ABANDONED EXISTING TO BE CAPPED |
| - | ESP | EXTERNAL STATIC PRESSURE |
| | FPM | FEET PER MINUTE |
| | FIN | FINISH |
| F | FD | FIRE DAMPER |
| <u>FS</u> — — — | FS | FIRE/SMOKE DAMPER |
| | FC | FLEXIBLE CONNECTION |
| | FLR | FLOOR FLOW IN DIRECTION OF ARROW |
| | FLV | FLOW LIMITING VALVE |
| | FA | FROM ABOVE |
| | FB | FROM BELOW |
| | FLA | FULL LOAD AMPS |
| | GALV | GALVANIZED |
| | GI | GALVANIZED IRON |
| | GA | GAUGE |

MECHANICAL LEGEND

| | ABBREVIATION | DESCRIPTION |
|--------------|-----------------------|---|
| | HTG | HEATING |
| Θ_{X} | н | HUMIDISTAT, "X" INDICATES DEVICE CONTROLLED |
| O ^ | ΙE | 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 |
| | MIN | MINIMUM |
| | MCC | MOTOR CONTROL CENTER |
| | (N) | NEW |
| | OC | ON CENTER |
| | OA | OUTSIDE AIR |
| | OAD | OUTSIDE AIR DAMPER |
| | OD | OUTSIDE DIAMETER |
| | OV | OUTLET VELOCITY |
| | OH | OVERHEAD |
| <u> </u> | Oi i | PIPE DROP |
| <u>-</u> | | PIPE RISE |
| <u> </u> | | 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 —— | RG | REFRIGERANT GAS PIPING |
| —— RS —— | RS | REFRIGERANT SUCTION PIPING |
| | RL | REFRIGERANT LIQUID PIPING |
| 112 | RA | RETURN AIR |
| | RAD | RETURN AIR DAMPER |
| | RPM | REVOLUTIONS PER MINUTE |
| | RLA | RUNNING LOAD AMPERES |
| | SB | SECURITY BARS |
| | SM | SHEET METAL |
| SD | SD | SMOKE DAMPER |
| (SD) | SKD | SMOKE DETECTOR |
| | SD | SPLITTER DAMPER |
| ф | SQFT, FT ² | |
| Ψ | _ | SQUARE FEET |
| | SQIN, IN ² | SQUARE INCHES |
| | SP | STATIC PRESSURE |
| | SPD | STATIC PRESSURE DROP |
| | SA | SUPPLY AIR |
| | SF | SUPPLY FAN TEMPERATURE CONTROL BANEL |
| | TCP | TEMPERATURE CONTROL VALVE |
| Fe I | TCV | TEMPERATURE CONTROL VALVE |
| رهر ا | - | TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED |
| ₩ × | T | THERMOSTAT, "X" INDICATES DEVICE CONTROLLED THOUSAND BRITISH THERMAL UNITS PER HOUR |
| | MBH TA | |
| | TA TB | 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 |

MECHANICAL LEGEND cont'd

DSA STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 01-118866 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 07/09/2020

CONTRA COSTA
COMMUNITY COLLEGE
DISTRICT

500 COURT STREET MARTINEZ, CA

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No. DESCRIPTION DATE

CONSULTANTS





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 (F):

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.

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 RECEPTIACLES HAVING FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT 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.

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

PRIME CONSULTANT

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San Jose, CA 95110, USA

PROJECT NO:

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L-1177 Industrial Trades Labs
Renovation
2700 EAST LELAND ROAD

PITTSBURG, CA 94565

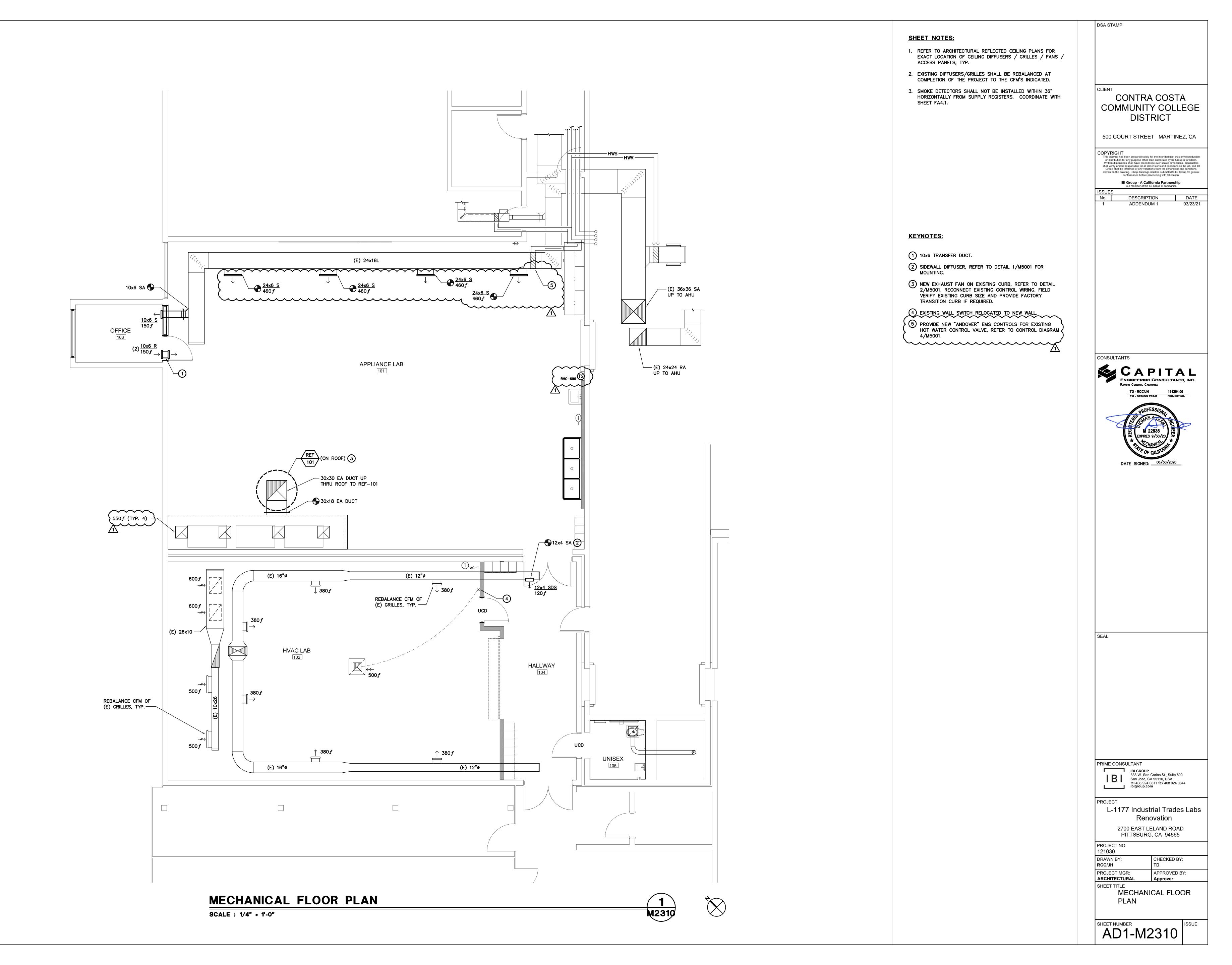
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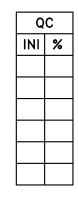
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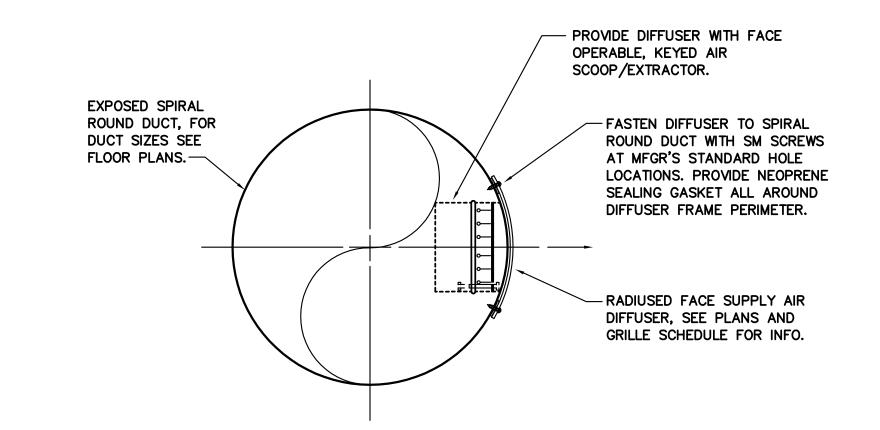
PROJECT MGR: APPROVED BY: APPROVED BY: Approver

MECHANICAL
LEGENDS & NOTES

M0001







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

DSA STAMP

CLIENT CONTRA COSTA **COMMUNITY COLLEGE** DISTRICT

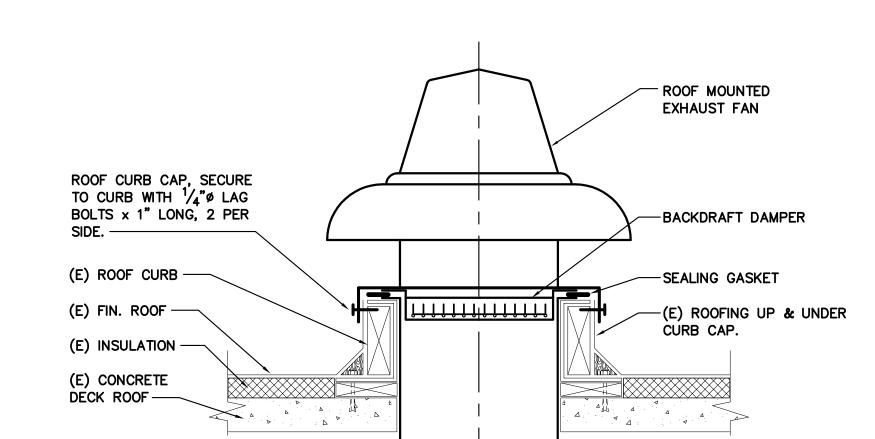
500 COURT STREET MARTINEZ, CA

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DESCRIPTION DATE

RADIUSED FACE DIFFUSER MOUNTING

SCALE : NONE

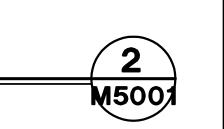


NOTE: CONTRACTOR TO FIELD VERIFY EXISTING CURB SIZE AND ENSURE NEW EXHAUST FAN CURB CAP MATCHES, OR PROVIDE FACTORY ADAPTOR CURB IF REQUIRED.

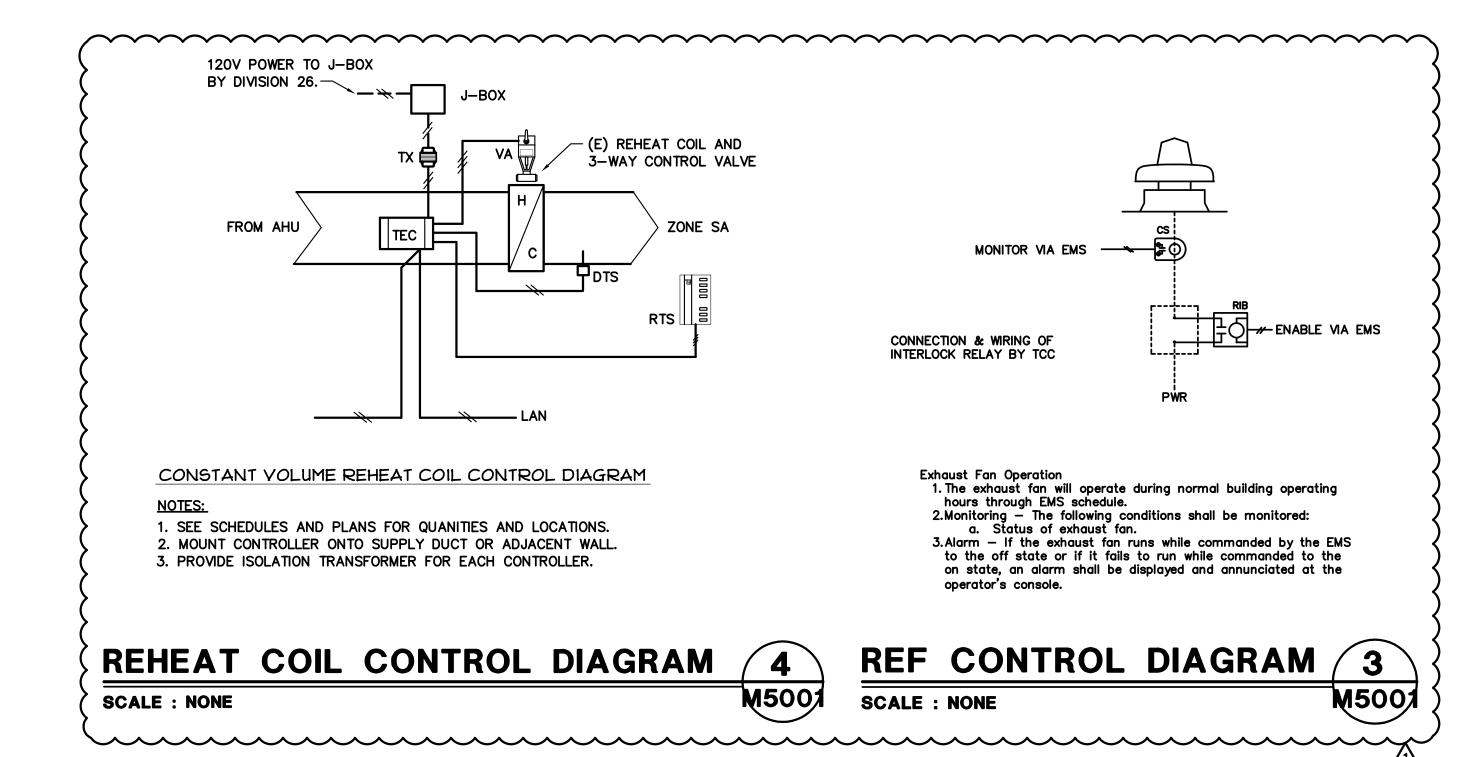
REF MOUNTING DETAIL

SCALE : NONE

SHEET METAL DUCT-



M5001



CONSULTANTS PM - DESIGN TEAM

DATE SIGNED: ____06/30/2020

PRIME CONSULTANT

IBI GROUP 333 W. San Carlos St., Suite 600 San Jose, CA 95110, USA tel 408 924 0811 fax 408 924 0844 ibigroup.com

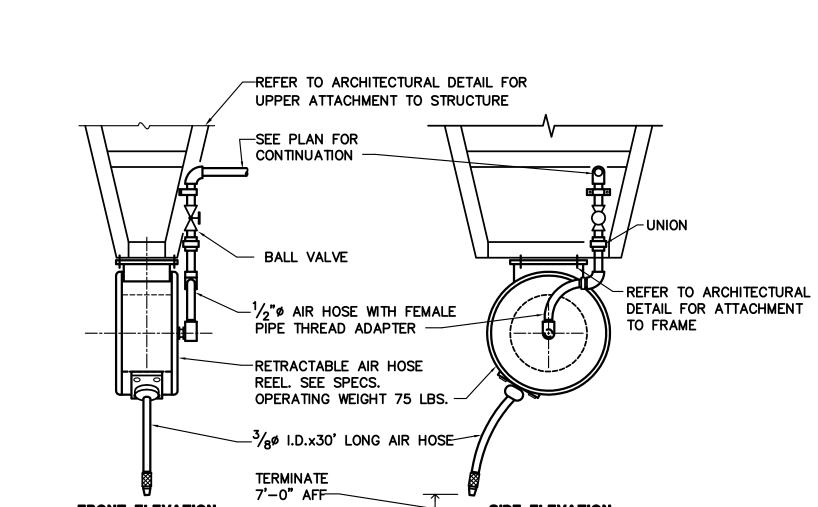
L-1177 Industrial Trades Labs Renovation 2700 EAST LELAND ROAD PITTSBURG, CA 94565

PROJECT NO: CHECKED BY: PROJECT MGR: APPROVED BY: ARCHITECTURAL

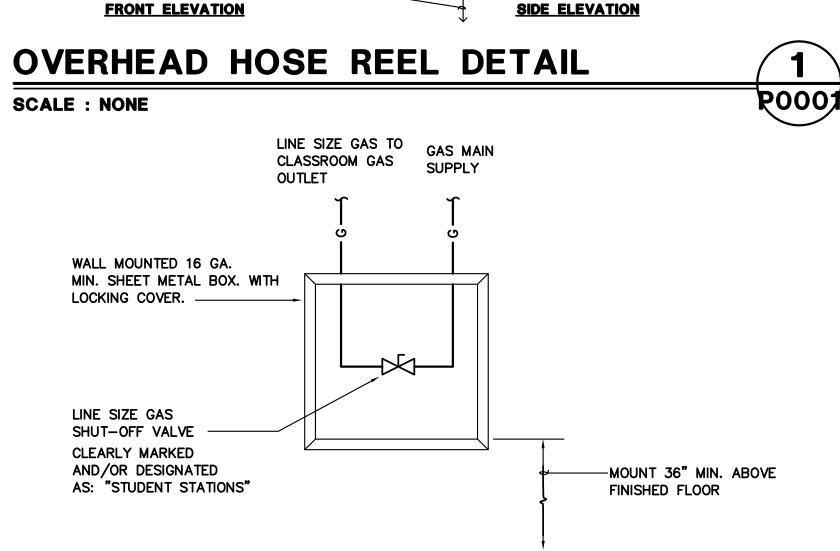
MECHANICAL DETAILS

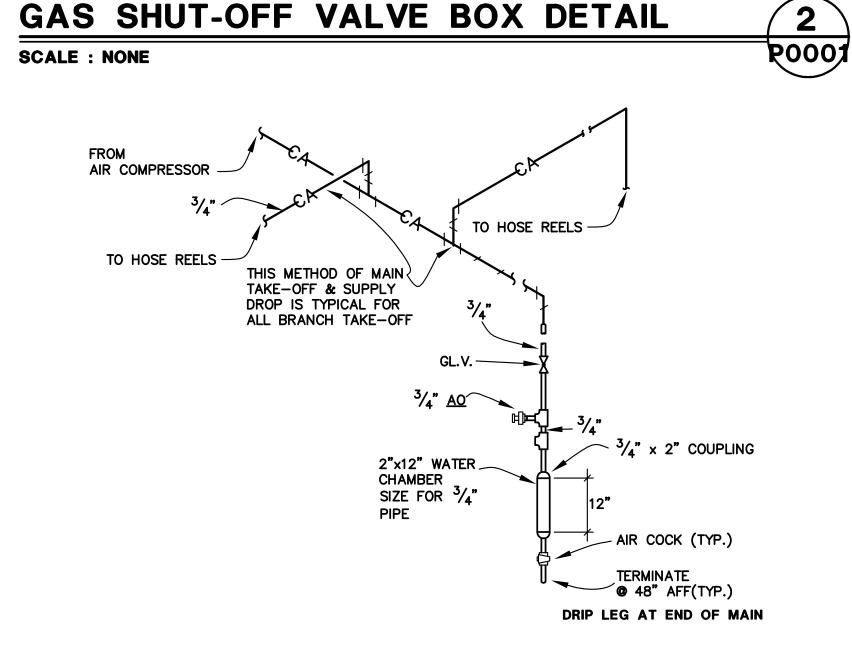
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TYPICAL AIR DROP DETAIL

SCALE: NONE

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):

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES

OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

PLUMBING GENERAL NOTES

- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN AS EXISTING PRIOR TO DEMOLITION OR THE INSTALLATION OF ANY NEW WORK.
- SANITARY VENT LINES SHALL TERMINATE AT A MINIMUM DISTANCE OF 10 FEET FROM HVAC UNIT OUTSIDE
- THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
- ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
- CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION
- OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.
- INSTALL ALL WORK TO CLEAR ARCHITECTURAL, STRUCTURAL MEMBERS AND MECHANICAL SYSTEMS. ADJUST PIPING AS NECESSARY. NO ITEM SUCH AS PIPE, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT. INSTALL ALL PIPING AS HIGH AS POSSIBLE OR AS SPECIFIED ON DRAWINGS TO MAINTAIN MAXIMUM ACCESSIBILITY.
- ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON CIVIL PLANS) TO ACHIEVE THE MAXIMUM SLOPE POSSIBLE, BUT IN NO CASE SHALL THE PIPING BE SLOPED AT LESS THAN THE MINIMUM SLOPE INDICATED.
- 10. PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR CUTTING THRU STRUCTURAL SYSTEM. CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM THE ARCHITECT BEFORE MAKING PENETRATIONS THAT ARE NOT DETAILED ON THE CONSTRUCTION DOCUMENTS.
- 12. REFER TO SPECIFICATIONS FOR CURRENT CODES & STANDARDS.

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- 13. HVAC UNITS ARE SHOWN FOR THE COORDINATION OF UTILITIES ONLY. FOR CONTINUATION REFER TO HVAC PLANS, 'M' SHEETS.
- 14. NATURAL GAS CONNECTIONS TO EQUIPMENT SHALL INCLUDE A LINE SIZE UNION, GAS SHUT—OFF VALVE AND A MINIMUM 6" LONG DIRT LEG WITH AN ACCESSIBLE/REMOVABLE CAP.
- 15. CONDENSATE DRAIN LINE CONNECTIONS TO EQUIPMENT SHALL INCLUDE A LINE SIZE UNION, 4" DEEP VENTED 'P'-TRAP AND A PLUGGED TEE (CLEANOUT) AT ALL OFFSETS.

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE
- B. 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
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENETS 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.

| | PLUM | BING LEGEND |
|--|-----------------|--|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| | ABC | ABOVE CEILING |
| | AFF | ABOVE FINISHED FLOOR |
| | AFG | ABOVE FINISHED GRADE |
| | AF , BF | ABOVE FLOOR , BELOW FLOOR |
| abla | AD , AP | ACCESS DOOR , ACCESS PANEL |
| ———AW——— | AW | ACID WASTE BELOW FLOOR |
| AW | AW | ACID WASTE ABOVE FLOOR |
| AV | AV | ACID VENT PIPING |
| ₽ | ANV | ANGLE VALVE |
| Y | AQ | AQUASTAT |
| <u> </u> | AD | AREA DRAIN |
| | BFP, RP, DCV | BACKFLOW PREVENTER, REDUCED PRESSURE, DOUBLE CHECK VALVE |
| | | |
| | BV | BALL VALVE |
| | | BRANCH - TOP CONNECTION |
| | | BRANCH — BOTTOM CONNECTION BRANCH — SIDE CONNECTION |
| —————————————————————————————————————— | BFV | BUTTERFLY VALVE |
| | CBV | CALIBRATED BALANCE VALVE |
| | COP | CALIBRATED BALANCE VALVE CAP ON END OF PIPE |
| co ₂ | CO ₂ | CARBON DIOXIDE |
| o <u> </u> | CB, RD | CATCH BASIN , ROOF DRAIN |
| ē | , no | CENTER LINE |
| CG | CG | CHASIS GREASE |
| | CKV | CHECK VALVE |
| —-—DWR—-— | DWR | CHILLED DRINKING WATER RETURN |
| —-—DWS—-— | DWS | CHILLED DRINKING WATER SUPPLY |
| Ф | CP | CIRCULATING PUMP |
| | CW | COLD WATER |
| | CWD | COLD WATER DROP |
| | CWR | COLD WATER RISE |
| Н | CWH, HWH, VH | COLD WATER HEADER, HOT WATER HEADER, VENT HEADER |
| ——A—— | A | COMPRESSED AIR |
| X#A | X#A | COMPRESSED AIR - X# |
| | CR | CONCENTRIC REDUCER |
| ——CD—— | CD | CONDENSATE DRAIN LINE |
| | СМР | CORRUGATED METAL PIPE |
| <u> </u> | CO | CLEANOUT |
| ———DI——— | DI | DEIONIZED WATER |
| ቸ <i>ለ</i> ሰ | | DEGREES FAHRENHEIT |
| ø, ¢ | 25 | DIAMETER , SQUARE (FEET) |
| ———DF—— | DF | DIESEL FUEL |
| —————————————————————————————————————— | DIS DSP | DISTILLED WATER DRY STAND PIPE |
| | ER | ECCENTRIC REDUCER |
| | (E) | EXISTING TO BE REMOVED |
| ^ | EJ | EXPANSION JOINT |
| FF= | | FINISHED FLOOR ELEVATION |
| (| FHC | FIRE HOSE RACK AND CABINET |
| —————————————————————————————————————— | F | FIRE PROTECTION WATER SUPPLY |
| FU | • | FIXTURE UNIT |
| | FC | FLEXIBLE CONNECTOR |
| Ø | CO | CLEANOUT |
| ~ | FD | FLOOR DRAIN |
| I | FS | FLOOR SINK |
| | | FLOW IN DIRECTION OF ARROW |
| ──── ──────────────────────────────── | FLV | FLOW LIMITING VALVE |
| | FS | FLOW SWITCH |
| FV , FT | | FLUSH VALVE , FLUSH TANK |
| (FA) , (TA) | | FROM ABOVE , TO ABOVE |
| (FB), (TB) | | FROM BELOW , TO BELOW |
| | GCK | GAGE COCK |
| ——\ [†] —— | GSCK , PC | GAS COCK , PLUG COCK |
| ——GA—— | GA | GASOLINE VENT |
| GV | • | GASOLINE VENT |
| | G | GAS - LOW PRESSURE |
| ——MG—— | MG HC | GAS — MEDIUM PRESSURE |
| ——HG—— ——▶—— | HG GPR | GAS — HIGH PRESSURE GAS PRESSURE REGULATOR VALVE |
| R | GPR GPR | GAS PRESSURE REGULATOR VALVE GAS PRESSURE REGULATOR |
| | GPR GM | GAS PRESSURE REGULATOR GAS METER |
| - | | GAS METER GAS SEISMIC VALVE |
| —————————————————————————————————————— | GV | GATE VALVE |
| . , | GV GV | GREASE VENT |
| | GPM | GALLONS PER MINUTE |
| | GLV | GLOBE VALVE |
| ── ₩── | JL¥ | |
| —— ⋈ —— Ø | CO | I CLEANOUT |
| Ø | CO GW | CLEANOUT GREASE WASTE PIPING |
| • • | GW | GREASE WASTE PIPING |
| Ø | | |

| SYMBOL | HW HWR HWD HW HWRET HWRET(R) HWRET(D) () HW () HWR IS D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | HOT WATER PIPING HOT WATER PIPING RISE HOT WATER PIPING DROP HOT WATER PIPING WITH HEAT TRACE TAPE HOT WATER RETURN HOT WATER RETURN RISE HOT WATER RETURN DROP HOT WATER RETURN (TEMP. 'F) HOT WATER RETURN (TEMP. 'F) IRRIGATION SUPPLY INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
|--|---|--|
| | HWR HWD HW HWRET HWRET(R) HWRET(D) () HW () HWR IS D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | HOT WATER PIPING RISE HOT WATER PIPING DROP HOT WATER PIPING WITH HEAT TRACE TAPE HOT WATER RETURN HOT WATER RETURN RISE HOT WATER RETURN DROP HOT WATER (TEMP. 'F') HOT WATER RETURN (TEMP. 'F') IRRIGATION SUPPLY INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| D | HWD HW HWRET HWRET(R) HWRET(D) () HW () HWR IS D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | HOT WATER PIPING DROP HOT WATER PIPING WITH HEAT TRACE TAPE HOT WATER RETURN HOT WATER RETURN RISE HOT WATER RETURN DROP HOT WATER (TEMP. 'F) HOT WATER RETURN (TEMP. 'F) IRRIGATION SUPPLY INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
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| D | () HW () HWR IS D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | HOT WATER (TEMP. "F) HOT WATER RETURN (TEMP. "F) IRRIGATION SUPPLY INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| D | IS D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | IRRIGATION SUPPLY INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| D | D LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | INDIRECT DRAIN , CONDENSATE DRAIN LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | LPG LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | LIQUIFIED PETROLEUM GAS LUBRICATING OIL LUBRICATING OIL VENT NEW, EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | LO LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | LUBRICATING OIL LUBRICATING OIL VENT NEW, EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | LOV (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | LUBRICATING OIL VENT NEW , EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | (N), (E) (NTS) OH OF OFD AN PT POC PG P & TRV | NEW, EXISTING NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | (NTS) OH OF OFD AN PT POC PG P & TRV | NOT TO SCALE OVERHEAD OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | OH OF OFD AN PT POC PG P & TRV | OVERFLOW RAINWATER LEADER OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | OFD AN PT POC PG P & TRV | OVERFLOW DRAIN PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | AN PT POC PG P & TRV | PIPE ANCHOR PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | PT POC PG P & TRV | PIPE GUIDE PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | POC PG P & TRV | PIPE IN SLEEVE PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | POC PG P & TRV | PITCH DOWN IN DIRECTION OF FLOW PLUGGED TEE |
| —————————————————————————————————————— | POC PG P & TRV | PLUGGED TEE |
| —————————————————————————————————————— | POC PG P & TRV | |
| —————————————————————————————————————— | PG P & TRV | |
| | P & TRV | POINT OF CONNECTION PRESSURE GAUGE |
| | | PRESSURE & TEMPERATURE RELIEF VALVE PIPING |
| | PRV | PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE |
| PD | PD | PUMP DISCHARGE LINE |
| RWL | RWL | RAINWATER LEADER |
| <u> </u> | WH | RECESSED BOX HOSE BIBB OR WALL HYDRANT |
| * | RV or P&TRV | RELIEF VALVE OR PRESSURE |
| | | & TEMPERATURE RELIEF VALVE |
| | RET | RETURN |
| | RE, IE | RIM ELEVATION , INVERT ELEVATION |
| | (R) , (D) | RISE , DROP |
| | | RISER DOWN (ELBOW) |
| | R, D | RISER UP (ELBOW) RISE OR DROP |
| | RD | ROOF DRAIN |
| | S, W | SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR |
| | S, W | SOIL, WASTE OR SANITARY SEWER BELOW FLOOR |
| <u>&</u> | • | SOLENOID VALVE WITH MOTOR ACTUATOR |
| ————SD——— | SD | STORM DRAIN |
| —————————————————————————————————————— | STR | STRAINER |
| | Т | TEMPERED WATER SUPPLY |
| <u>"</u> | TH | THERMOMETER |
| | TO | THREE WAY CONTROL VALVE |
| | TP | TRAP PRIMER TRAP PRIMER PIPING |
| | | TRAP PRIMER PIPING TWO WAY CONTROL VALVE |
| | TYP | TYPICAL |
| I | UN | UNION OR FLANGE |
| -/UD/- | UD | UNDER DRAIN |
| | AV | VALVE WITH MOTOR ACTUATOR |
| ģ | | VALVE IN RISER (TYPE AS INDICATED OR NOTED) |
| ——— | VB | VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS |
| | | REQUIRED FOR VALVE TYPE USED) |
| | V | VENT PIPING |
| V , VR , VTR | | VENT , VENT RISER , VENT THRU ROOF |
| VCP | WCO | VITRIFIED CLAY PIPE WALL CLEANOUT |
| , —— | WCO WHA | WALL CLEANOUT WATER HAMMER ARRESTER |
| WM | WHA WM | WATER HAMMER ARRESTER WATER METER |
| WO | WO | WATER METER WASTE OIL |
| wov | WOV | WASTE OIL VENT |
| | WSP | WET STAND PIPE |
| Θ | PIV | POST INDICATOR VALVE |
| द, -∞•े्र- | FH | FIRE HYDRANT |
| ď. | FDC | FIRE DEPARTMENT CONNECTION |
| | | |
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DSA STAMP IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 01-118866 INC: REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗹 DATE: 07/09/2020

CONTRA COSTA **COMMUNITY COLLEGE** DISTRICT

500 COURT STREET MARTINEZ, CA

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DESCRIPTION DATE

CONSULTANTS





PRIME CONSULTANT

333 W. San Carlos St., Suite 600 San Jose, CA 95110, USA tel 408 924 0811 fax 408 924 0844

L-1177 Industrial Trades Labs Renovation 2700 EAST LELAND ROAD

PITTSBURG, CA 94565

PROJECT NO: CHECKED BY: PROJECT MGR: **ARCHITECTURAL**

> PLUMBING LEGENDS, SCHEDULES, NOTES, & DETAIL

P0001

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| | | | PLUM | BING FIXTURE SPECIFIC | CATION & CONNECTION | SCHEDULE | | | | | | | |
|--|--------|---|---|--|--|---|---------------------------------|--------|--------------------|--------|--------|-------------------------------|--------|
| ADA | SYMBOL | FIXTURE | FIXTURE | FAUCET OR VALVE | TRIM | REMARKS | VENT | W | ASTE | COLD | WATER | нот ч | WATER |
| | | | MANUFACTURER AND MODEL No. | MANUFACTURER AND MODEL No. | MANUFACTURER AND MODEL No. | | | BRANCH | OUTLET | BRANCH | OUTLET | BRANCH | OUTLET |
| | L-1 | LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE | "SPLASH" SILVER SERIES WM900 WALL HUNG, 22 GA. STAINLESS STEEL, 7-3/4" BACKSPLASH, 6" x 11" x 5"D SHAPED BOWL. | INTEGRAL FAUCET W/ WRIST BLADE HANDLE KIT. ADA COMPLIANT. | ADA COMPLIANT. 1-1/2" STAINLESS STEEL DRAIN. 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. | 11/2" | 2" | 11/2" | 3/4" | 1/2" | ³ / ₄ " | 1/2" |
| ************************************** | S-1 | SINK COUNTER MOUNTED HOT & COLD WATER | "TABCO" MODEL 7-PS-25 WALL HUNG SINK 24" FRONT TO BACK, 20" WDE 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 "TABCO" 6" EXTENDED DECK MOUNTED GOOSENECK FAUCET WITH WRIST HANDLES. PROVIDE PROVIDE DECK MOUNTED LIQUID SOAP DISPENSER. PROVIDE 1.0 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR. | "TABCO" MODEL 7-PS-10, OFFSET STRAINER DRAIN AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL. | "POWERS" 115V5 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-TA1 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. | | 11/2" | 2" | 11/2" | 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. | 11/2" | 2" | 2" | 3/4" | 1/2" | 3/4" | 1/2" |
| | НВ | 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 | | | | | | | | | | |
| c + | 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 | | | | | | | |

2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875.

CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.

PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY

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.

DSA STAMP

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No. DESCRIPTION DATE ADDENDUM 1

3/23/2021

CONSULTANTS





PRIME CONSULTANT

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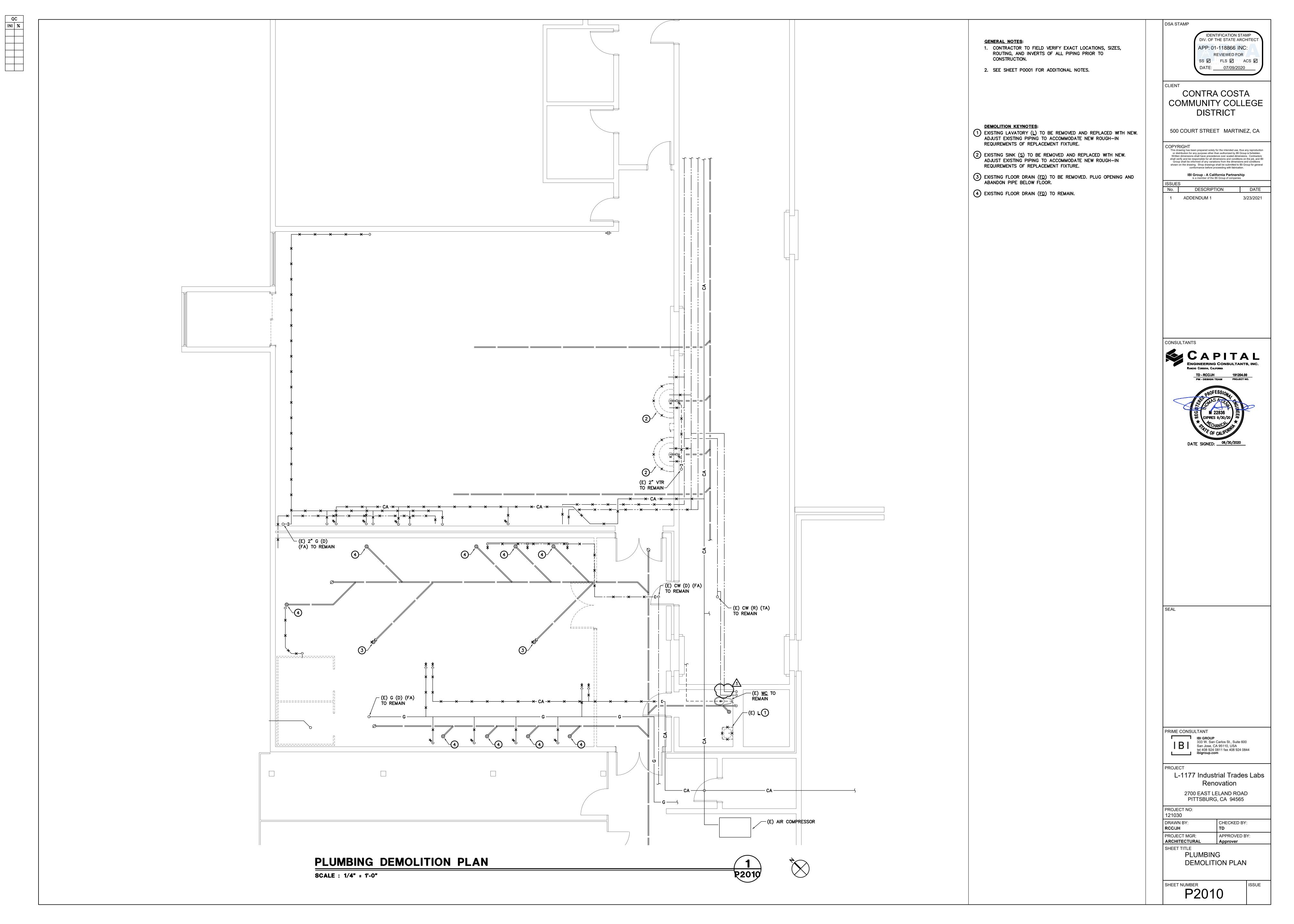
L-1177 Industrial Trades Labs Renovation 2700 EAST LELAND ROAD PITTSBURG, CA 94565

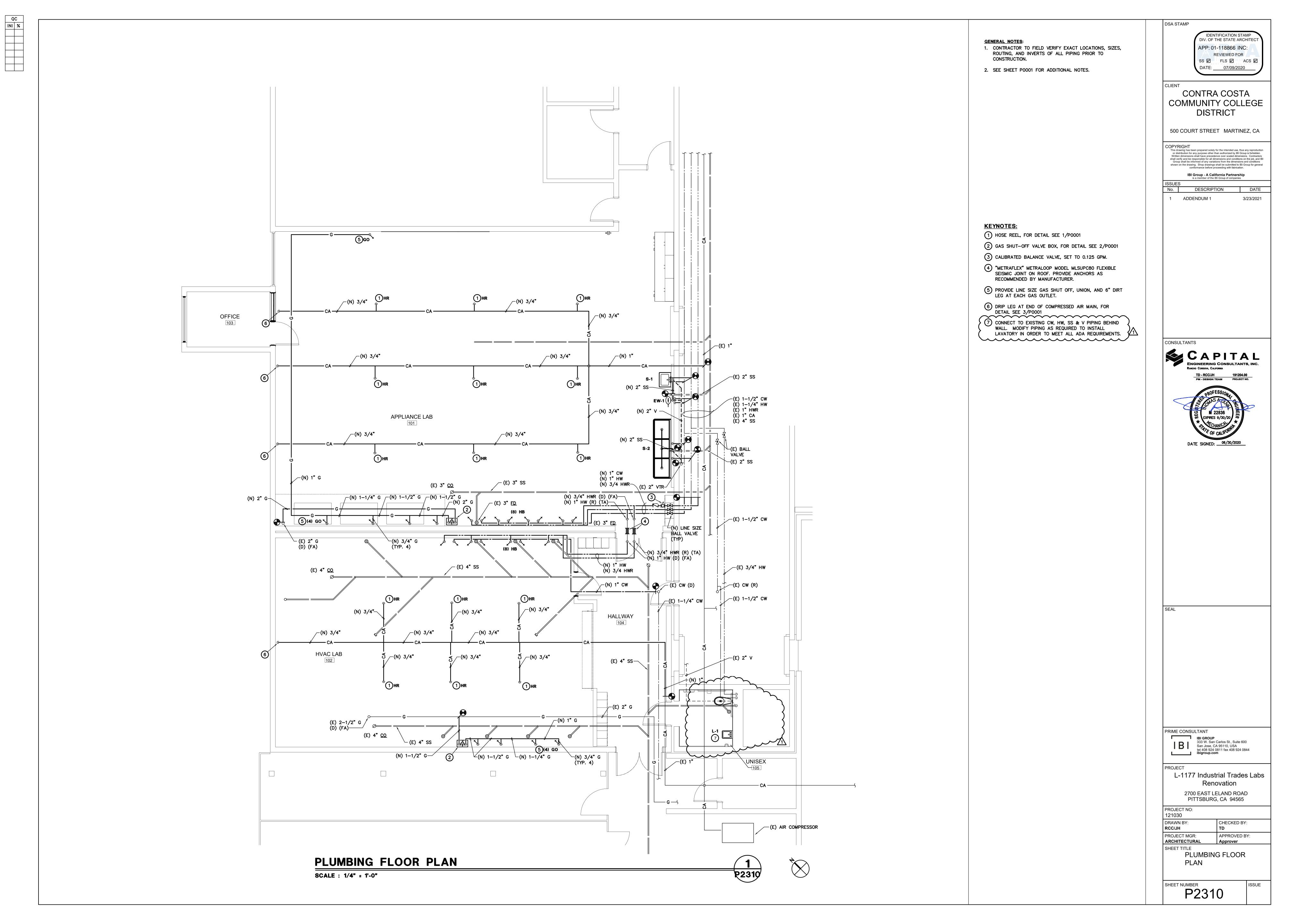
PROJECT NO: 121030 DRAWN BY: RCC/JH CHECKED BY:

PROJECT MGR: ARCHITECTURAL APPROVED BY: PLUMBING FIXTURE

SCHEDULES

SHEET NUMBER ISSUE P0002





GENERAL CONSTRUCTION NOTES

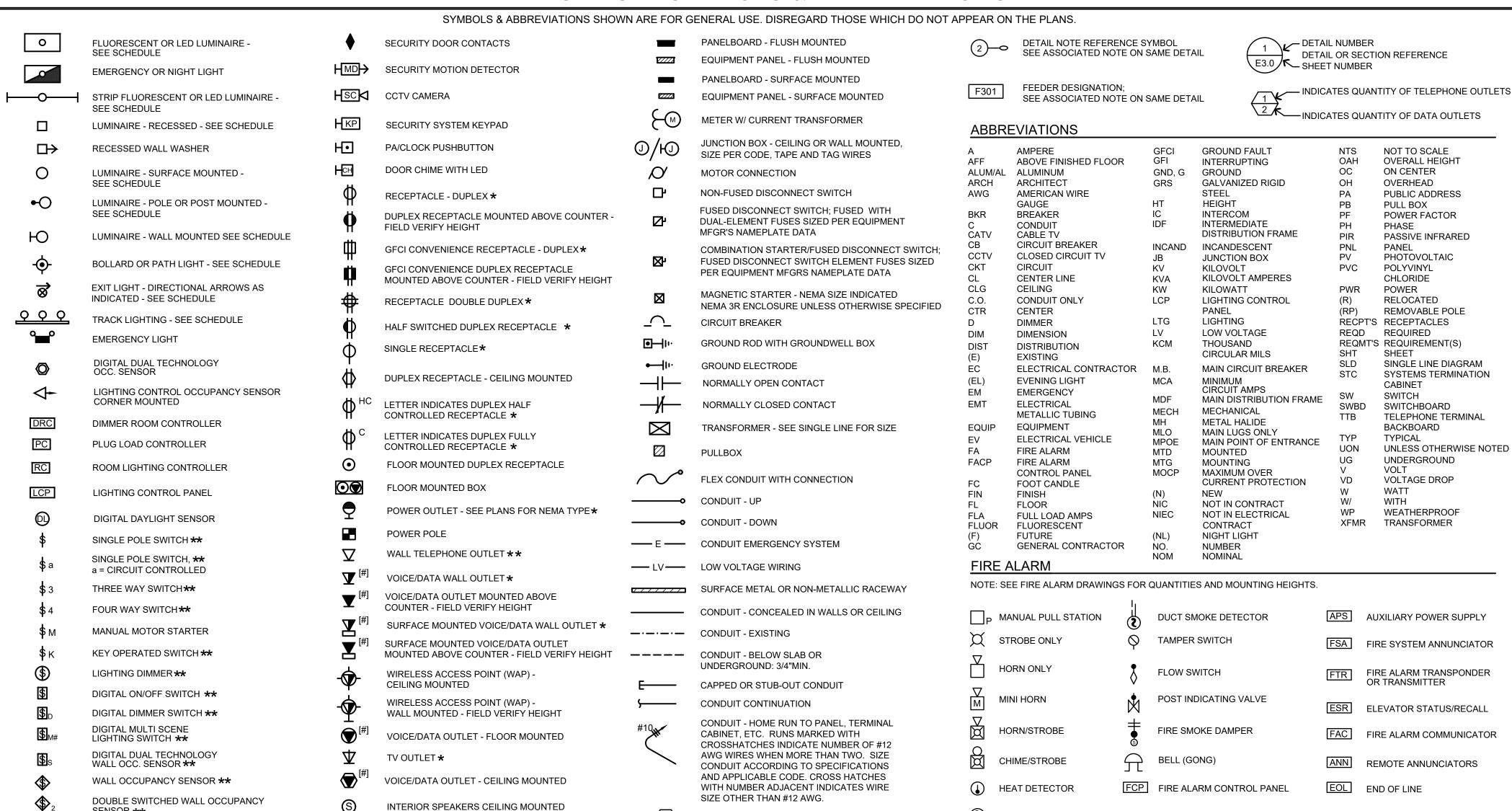
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE 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

- 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.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- 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.
- 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.
- 1. 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.
- 5. 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
- 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
- 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
- 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 CLAD CABLE
- 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 THE ENGINEER. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ENGINEER WILL BE MADE.

WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.

ELECTRICAL SYMBOLS & ABBREVIATIONS



EQUIPMENT ANCHORAGE

Ю

INTERIOR SPEAKERS WALL MOUNTED

INSTALLATION

CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE

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.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

DIMMING DUAL TECHNOLOGY

WALL SWITCH OCCUPANCY SENSOR **

2-BUTTON DIMMING DUAL TECHNOLOGY

WALL SWITCH OCCUPANCY SENSOR **

- 2. 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.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
- 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. FELXIBLE 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.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE

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:

- 1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 3. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE
- 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS. 4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE
- 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
- 5. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 7. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018
- INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12. 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 11. NATIONAL FIRE ALARM CODE (NFPA 72) 2019.

SHEET NOTE REFERENCE SYMBOL;

NOTE ON SAME SHEET

SEE ASSOCIATED NOTE ON SAME SHEET

SCHEDULE SYMBOL; SEE ASSOCIATED

- 1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA) 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SMOKE DETECTOR

CO CARBON MONOXIDE ALARM

SHEET INDEX

* +15" A.F.F. TO BOTTOM OF BOX, U.O.N.

OF CABLE DROPS WHEN MORE THAN (2).

** +48" A.F.F. TO TOP OF BOX. U.O.N.

- CODES, STANDARDS, NOTES & SHEET INDEX. E0.2 CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR.
- E1.1 ELECTRICAL SINGLE LINE DIAGRAM &
- PANELBOARD SCHEDULES.

E0.1 SYMBOLS, ABBREVIATIONS,

- 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

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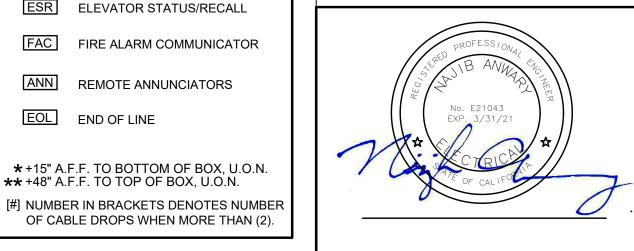
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> DESCRIPTION DATE

CONSULTANTS





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L-1177 Industrial Trades Labs Renovation 2700 EAST LELAND ROAD

PITTSBURG, CA 94565 PROJECT NO: 121030 DRAWN BY:

CHECKED BY: PROJECT MGR: APPROVED BY: ARCHITECTURAL

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

SHEET NUMBER

E0.1

| prescriptive path. | | trate compliance | with requireme | ents in | <u>§110.9, §</u> | 110 | 0.12(c), §130.0, § | 130.1 | <u>1, §140.6,</u> ai | nd <u>§141.(</u> | <u>)(b)2</u> for i | ndoor lig | ghting scop | NRCC- es using the |
|--|--|--|--|--|---|----------------------------|--|---|--|---|---|--|---|---|
| Project Name: | Vocational Labs | | | | | | | | Page: | | | | | Page 1 |
| Project Address: | | d Road, Pittsburg | g, CA 94565 | | | | Date | e Pre | epared: | | | | | 06/30/ |
| 01 Project Loca | | | Pitt | sburg | | | 04 Total Co | ondi | tioned Floor | · Area (ft² | 2) | | 3,4 | 486 |
| 02 Climate Zono | | signt (salant all th | | 12 | | | 05 Total U | ncor | nditioned Flo | or Area | (ft ²) | | | 0 |
| O3 Occupancy T | ypes within Pro | oject (select all th Retail | | Warel | nouse | | Hotel/ | | (Habitable A | School | , | | | 1 ort Areas |
| Parking Ga | | High-Rise Res | idential | Reloca | atable | | Health | ncare | 2 | Othe | r (write in | n): | | |
| | : Include any lig | | | - | | | | | | | | _ | | e path outlined in |
| | | ons. WARNING: (a new form or us | | lculati | on Metho | d ir | n this table will re | | | on of dat | a previou | sly inpu | t. If you nee | ed to change the |
| | Scop | e of Work 01 | | | | | Conditioned S | Space | es 03 | | | Unc 04 | onditioned | Spaces 05 |
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| ✓ Altered Light | ing System | | | | | Are | ea Category | | 3,486 | P | | | | |
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| C. COMPLIANCE | | his table says "D | OFS NOT COMP | IV" or | "COMPLU | EC 1 | vith Exceptional C | Cond | itions" refer | to Table | D for au | idanca | | |
| | | Allowed Light | ing Power per § | | | | | _ | djusted Ligh | nting Pov | ver per § | | (Watts) | Compliance Res |
| Lighting in conditioned and | 01 | 02 | 03 | | 04 | | 05 | | 06 | | ments | | 08 | 09 |
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| be combined for compliance per | §140.6(c)1 | §140.6(c)2 | <u>§140.6(c)2G</u> (+) | <u>J</u> = 1 | (+) | | (Watts) | | (Watts) | §140 | .6(a)2 -) | *In | ncludes ustments | §140.6 |
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| Hallway 104 | Shut-Off: I | Dim to 50% wher | unoccupied. | | | | | | | | | | | |
| . LIGHTING PO | WER ALLOWA | NCE: COMPLET | E BUILDING O | R ARE | A CATEG | iOF | RY METHODS | | | | | | | |
| Table Instructions | : Complete the | | ea complying us | ing the | | | uilding or Area Co | atego | ory Methods | s per <u>§14</u> | <u>0.6(b)</u> . In | dicate if | f additional | lighting power |
| Conditioned Space | | stments per <u>9140</u> | <u>.b(u)</u> are being t | useu. | | | | | | | | | | |
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| Project Nan | | onal Labs | | Report Page: | | Page 5 of |
| Project Add | ress: 2700 | ast Leland Road, Pittsburg, CA 94565 | | Date Prepared: | | 06/30/20 |
| N. ADDITI | ONAL LIGH | ING ALLOWANCE: TAILORED ORNA | AMENTAL/SPECIAL EFI | ECTS | | [|
| This Section | Does Not A | pply | | | | |
| O. ADDITI | ONAL LIGH | ING ALLOWANCE: TAILORED VERY | VALUABLE MERCHAN | DISE | | |
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| P. POWER | ADJUSTM | NT: LIGHTING CONTROL CREDIT (P | OWER ADJUSTMENT F | ACTOR (PAF)) | | 9 |
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|) BATED | DOWER RE | DUCTION COMPLIANCE FOR ALTER | ATIONS | | | <u></u> |
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| R. 80% LIG | HTING PO | VER FOR ALTERATIONS - CONTROL | S EXCEPTIONS | | | E |
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| S. DAYLIG | HT DESIGN | POWER ADJUSTMENT FACTOR (PA | F) | | | <u> </u> |
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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| G CONTROLS (Not Including PAFs) | | | | | | | |
| se include lighting controls for condition | | , | | , | • | | ion o |
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| 01 | | | | 02 | | | |
| Mandatory Demand Response | | | | | | | Field |
| <u>§110.12(c)</u> | | | | | | | Pass |
| Not Required ≤ 10,000 SF | | | See Area/Sp | ace Level Control | S | | |
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| Complete Building or Area Category | Area Controls | | | | | | d Fie |
| Primary Function Area | §130.1(a) | §130.1(b) | §130.1(c) | §130.1(d) | §140.6(d) | | L P |
| Classroom, Lecture, Training, Classroom, Lecture, Iraining, Vocational Vocational | AuthhPersonel | Dimmer | Exempt** | NA | NAA | | |
| Classroom, Lecture, Training, Classroom, Lecture, Training, Vocational Vocational | AuthhPersonel | Dimmer | Exempt* | NAA | NAA | | |
| Corridon | Manual ON/ Manual ON/OFF OFF | Dimmer | Partial Off* | NA.A | NAA | | |
| Office (≤ 250 square feet) | Manual ON/ Manual ON/OFF OFF | Dimmer | Vacancyy | NAA | NAA | | |
| a st require a note in the space below ϵ | explaining how con | npliance is achiev | ved. | | 1 | .3 | |
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¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically

Report Page:

Date Prepared:

STATE OF CALIFORNIA **Indoor Lighting**

November 2019

NRCC-LTI-E (Created 11/19)

CERTIFICATE OF COMPLIANCE

Project Name: Vocational Labs

Project Address: 2700 East Leland Road, Pittsburg, CA 94565

makes this adjustment, the permit applicant should enter full rated wattage in column 05.

| NRCC-LTI-E (Cı | eated 11/19) | | CALIFORNIA | ENERGY COMM | ISSIC |
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| CERTIFICAT | E OF COMP | LIANCE | | | NI |
| Project Nar | | tional Labs | Report Page: | | Pa |
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| 0 | • | NRCI-LTI-06-E - Must be submitted for additional w compliance. | attage installed in a video conferencing studio to be recognized for | | |
| Table Instru | ıctions: Sele | · · · · · · · · · · · · · · · · · · · | d in previous tables of this document. If any selection needs to be changed, I | | |
| Table Instru Table E. Ad Acceptance | ictions: Sele ditional Ren Test Techn | ctions have been made based on information provide narks. These documents must be provided to the build | ding inspector during construction and any with "-A" in the form name must ation visit: http://www.energy.ca.gov/title24/attcp/providers.html | | d thr |
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

DSA STAMP IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT CALIFORNIA ENERGY COMMISSION APP: 01-118866 INC: NRCC-LTI-E

Page 3 of 7

06/30/2020

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: <u>07/09/2020</u>

CONTRA COSTA COMMUNITY COLLEGE

DISTRICT

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DESCRIPTION

CONSULTANTS

AURUM CONSULTING MONTEREY BAY, INC. Project No. 19598.00

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November 2019

PRIME CONSULTANT IBI GROUP
333 W. San Carlos St., Suite 600
San Jose, CA 95110, USA
tel 408 924 0811 fax 408 924 0844
ibigroup.com

L-1177 Industrial Trades Labs Renovation

2700 EAST LELAND ROAD PITTSBURG, CA 94565 PROJECT NO: 121030 DRAWN BY: CADD

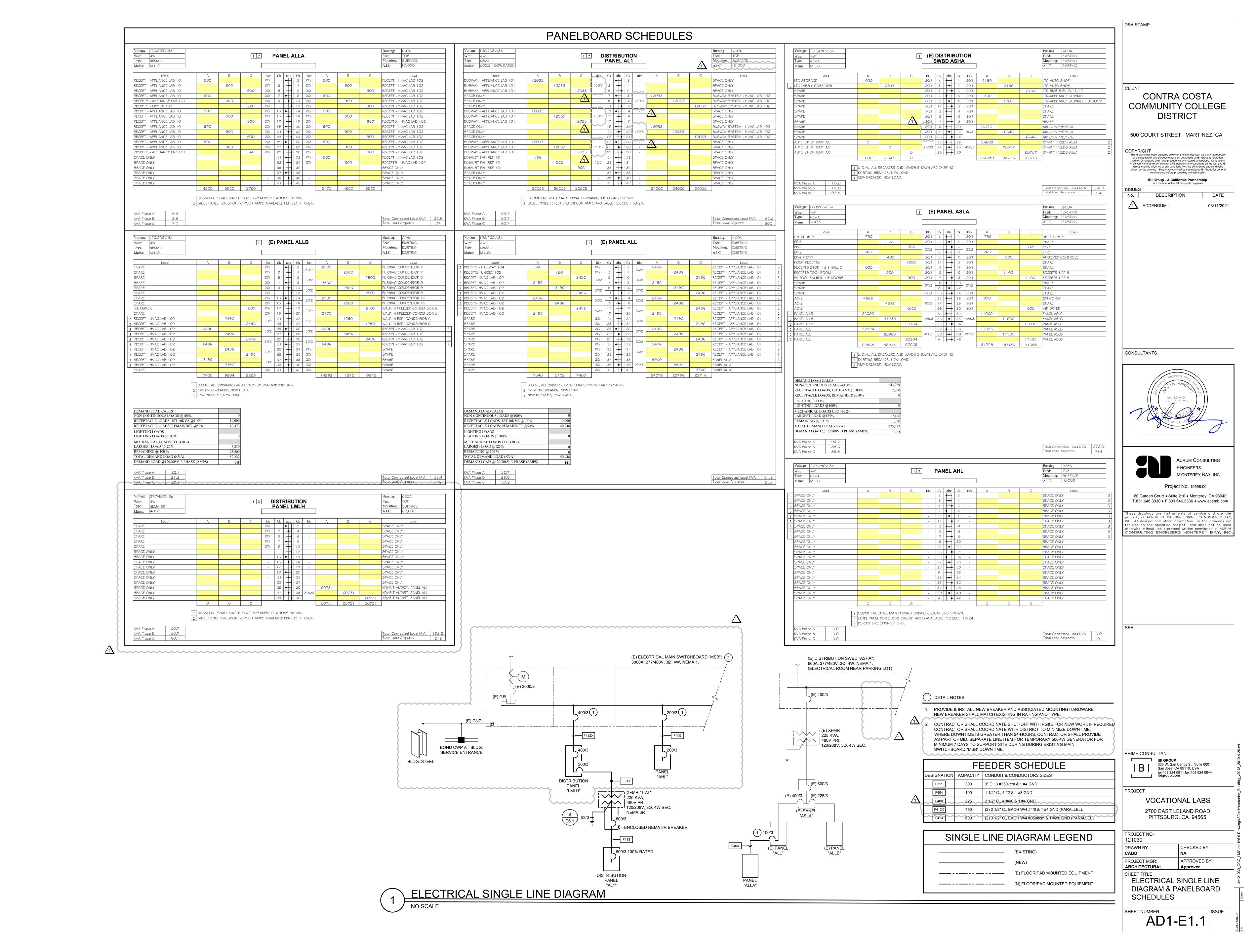
CHECKED BY: PROJECT MGR: ARCHITECTURAL APPROVED BY:

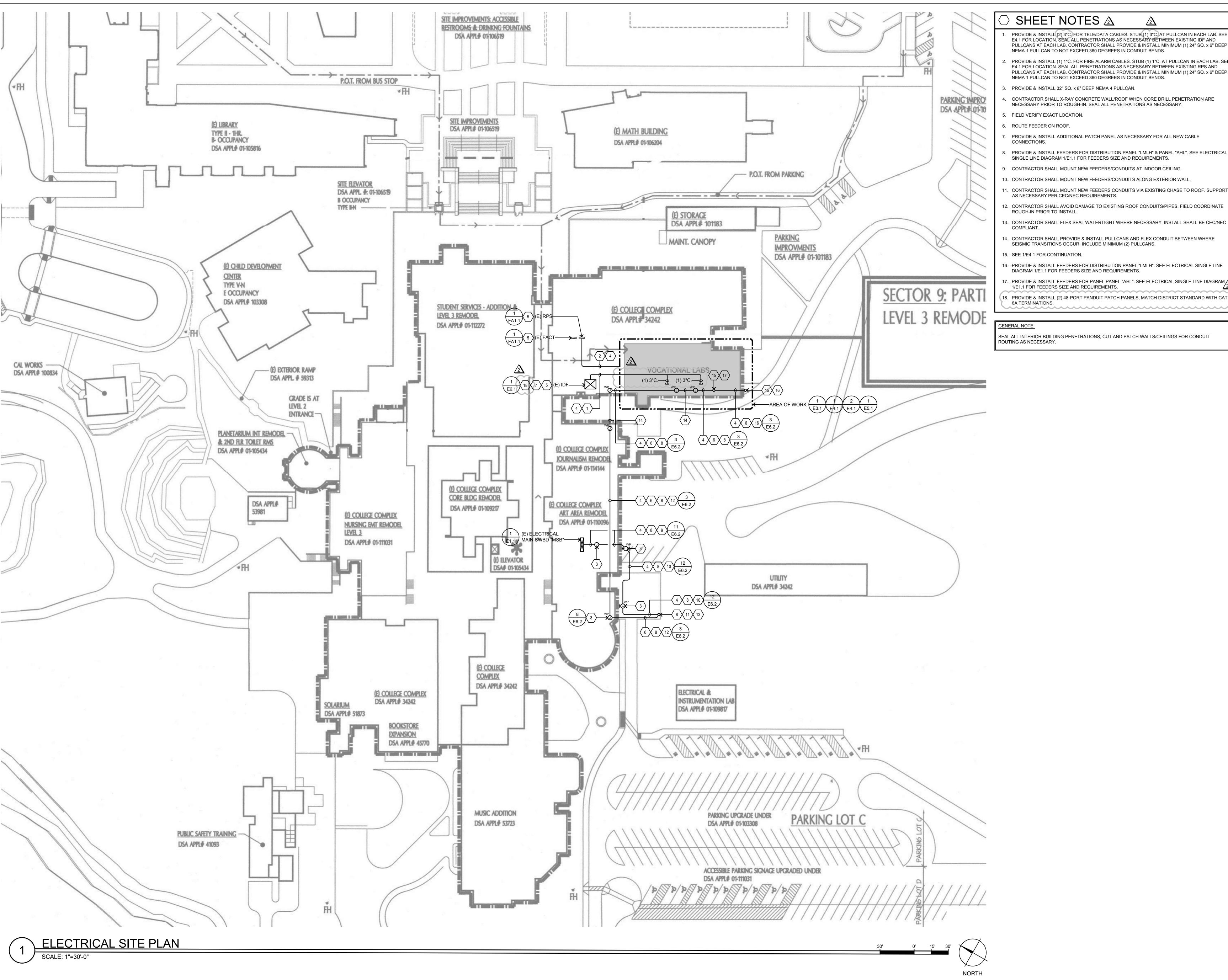
SHEET TITLE
CALIFORNIA ENERGY COMPLIANCE TITLE 24 -INDOOR

ISSUE

SHEET NUMBER

E0.2





SHEET NOTES 🕸

PROVIDE & INSTALL (2) 3"C. FOR TELE/DATA CABLES. STUB (1) 3"C. AT PULLCAN IN EACH LAB. SEE E4.1 FOR LOCATION. SEAL ALL PENETRATIONS AS NECESSARY BETWEEN EXISTING IDF AND

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 6" DEEP NEMA 1 PULLCAN TO NOT EXCEED 360 DEGREES IN CONDUIT BENDS.

PROVIDE & INSTALL 32" SQ. x 8" DEEP NEMA 4 PULLCAN.

- 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.
- PROVIDE & INSTALL ADDITIONAL PATCH PANEL AS NECESSARY FOR ALL NEW CABLE CONNECTIONS.
- 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.
- 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
- 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. 18. PROVIDE & INSTALL (2) 48-PORT PANDUIT PATCH PANELS, MATCH DISTRICT STANDARD WITH CAT

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

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

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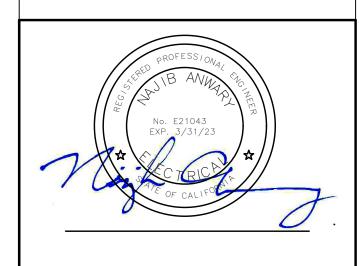
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DESCRIPTION

2 ADDENDUM 2 04/28/2021

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PRIME CONSULTANT

IBI GROUP

333 W. San Carlos St., Suite 600 San Jose, CA 95110, USA tel 408 924 0811 fax 408 924 0844 ibigroup.com

VOCATIONAL LABS 2700 EAST LELAND ROAD PITTSBURG, CA 94565

PROJECT NO: 121030

DRAWN BY: CHECKED BY: PROJECT MGR: APPROVED BY:

SHEET TITLE ELECTRICAL SITE PLAN

ARCHITECTURAL

AD2-E2.1

ELECTRICAL DEMOLITION PLAN

- 1. UNLESS OTHERWISE NOTED, DEMOLISH PER GENERAL DEMOLITION NOTES.
- 2. 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
- 10. EXHAUST FAN IS EXISTING TO REMAIN.
- 12. PER GENERAL DEMOLITION NOTES; DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES AND PRESERVE ASSOCIATED CONNECTION FOR REUSE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.
- A. CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- B. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- D. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL
- E. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED
- G. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- 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
- K. 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
- M. 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.

SHEET NOTES

- - LOCATION AS EXISTING. SEE NEW WORK FOR REQUIREMENTS.
 - 4. PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE PA/CLOCK SYSTEM FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR LOCATION AND REQUIREMENTS.
 - 5. PER GENERAL DEMOLITION NOTES; DISCONNECT AND SALVAGE CEILING MOUNTED PROJECTOR FOR RE-USE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.
 - WIFI ROUTER IS EXISTING TO REMAIN. 2
 - PER GENERAL DEMOLITION NOTES; PRESERVE FIRE ALARM INITIATION AND NOTIFICATION CIRCUITS/CONDUITS FOR REUSE UNDER NEW WORK. SEE NEW WORK FOR REQUIREMENTS.
 - 8. EXISTING FIRE ALARM INITIATION AND NOTIFICATION DEVICES NOT IN SCOPE OF WORK SHALL REMAIN ACTIVE AND FULLY FUNCTIONAL. SEE NEW WORK FOR REQUIREMENTS.
 - 9. NOTE NOT USED. 2

 - 11. LIGHT FIXTURES ARE EXISTING TO REMAIN.

GENERAL DEMOLITION NOTES

- C. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- BE REMOVED.
- 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.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT
- N. 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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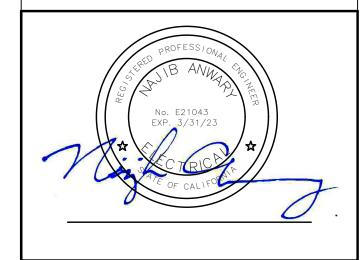
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DESCRIPTION DATE

04/28/2021

ADDENDUM 2

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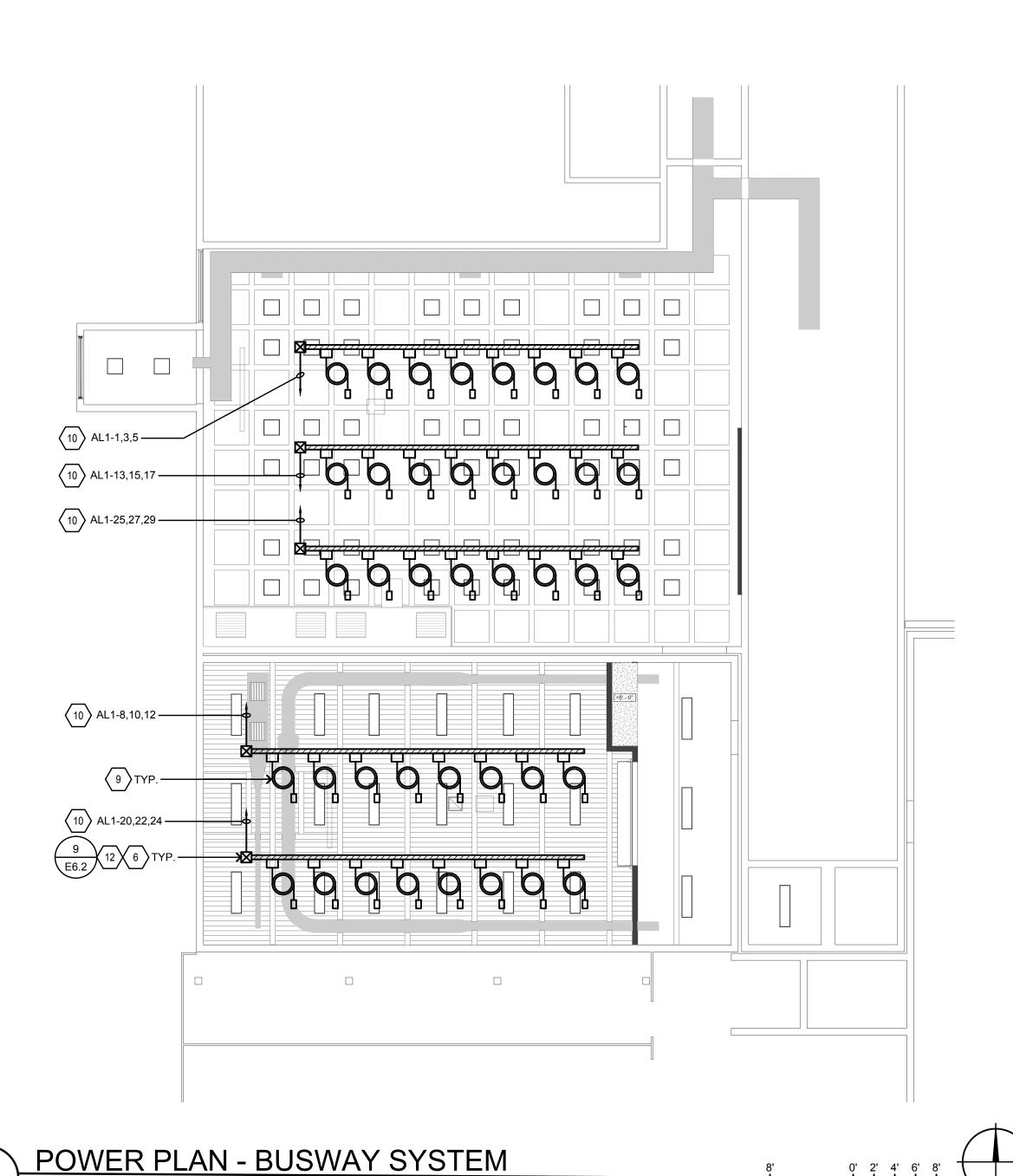
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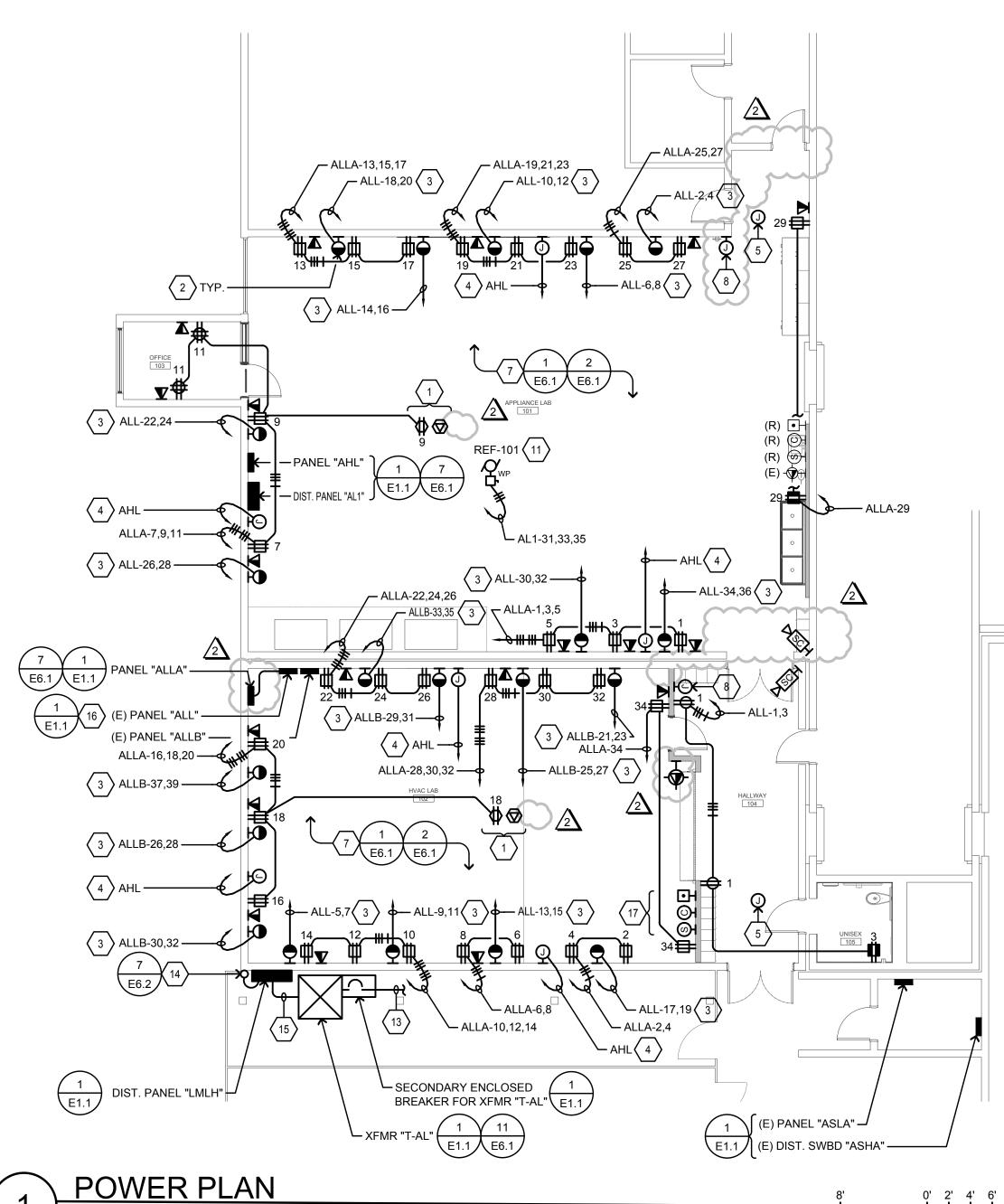
CHECKED BY:

PROJECT NO: 121030 DRAWN BY:

PROJECT MGR: APPROVED BY: ARCHITECTURAL SHEET TITLE ELECTRICAL **DEMOLITION PLAN**

AD2-E3.1





SHEET NOTES

- 1. FOR CEILING MOUNTED PROJECTOR. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH ARCHITECT/DISTRICT.
- 2. NEMA TYPE RECEPTACLE; 30A, 208V, 1Ø. CONTRACTOR SHALL VERIFY WITH
- ARCHITECT/DISTRICT FOR EXACT REQUIREMENTS.
- 3. ½"C. 2 #10 & 1 #10 GND.
- 4. PROVIDE & INSTALL 1"C.O. AND STUB INTO ELECTRICAL PANEL FOR FUTURE CONNECTION.
- 5. 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 32' 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.
- 7. 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.
- 8. PROVIDE & INSTALL 24" SQ. x 6" DEEP NEMA 1 PULLCAN FOR TELE/DATA CABLES. PROVIDE &
- INSTALL (1) 3"C. BACK TO EXISTING IDF FROM PULLCAN FOR CABLING.
- 9. 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.
- 10. 2" C., 4 #1/0 & 1 #6 GND.
- 11. EXHAUST FAN: 1 HP. 208V. 3Ø. LOCATED ON ROOF.
- 12. INSTALL BUSWAY SYSTEM BETWEEN LIGHT FIXTURES ROWS. COORDINATE WITH LIGHTING
- 13. PROVIDE & INSTALL FEEDER TO DISTRIBUTION PANEL "AL1". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- 14. PROVIDE & INSTALL FEEDER TO EXISTING ELECTRICAL MAIN SWITCHBORD "MSB". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS. SEE 1/E2.1 FOR
- 15. PROVIDE & INSTALL FEEDER TO TRANSFORMER "T-AL". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- 16. PROVIDE & INSTALL FEEDER TO PANEL "ALLA". SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E1.1 FOR SIZE AND REQUIREMENTS.
- 17. PA/CLOCK SYSTEM. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH ARCHITECT/DISTRICT.

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ADDENDUM 2

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AURUM CONSULTING

ENGINEERS

Project No. 19598.00

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04/28/2021

BRANCH CIRCUIT CONDUCTOR SIZING TABLE CIRCUIT AMPACITY/VOLTAGE CIRCUIT LENGTH REQUIREMENT 20/120 56'-90' ½" C., 2 #10 & 1 #10 GND. 20/120 ½" C., 2#8 & 1#10 GND. 91'-140' 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.

- GROUND-FAULT CIRCUIT-INTERRUPTER SHALL BE INSTALLED
- READILY ACCESSIBLE LOCATION. UNLESS OTHERWISE NOTED; ALL GENERAL 20 AMP, 120V
- WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH **EQUIPMENT MANUFACTURER'S FOR EXACT ELECTRICAL** CONNECTIONS/NEMA TYPE RECEPTALES. PROVIDE & INSTALL
- MATCHING PLUG FOR EQUIPMENT AND RECEPTACLE TO MATCH.
- CONTRACTOR SHALL X-RAY CONCRETE WALL WHEN CORE DRILL PENETRATION ARE NECESSARY PRIOR TO ROUGH-IN.

ENERAL NOTES:

- WHERE GFCI RECEPTACLES ARE INSTALLED THE
- RECEPTACLES SHALL BE GFCI TYPE.
- SEAL ALL INTERIOR BUILDING PENETRATIONS, CUT AND PATCH
- ALL SURFACE MOUNTED BOXES SHALL BE METAL BOXES WITH EMT/RIGID CONDUIT FOR POWER/TELECOM DEVICES.
- otherwise without the expressed written permission of AURUM CONSULTING ENGINEERS MONTEREY BAY, INC SEAL ALL PENETRATIONS AS NECESSARY.

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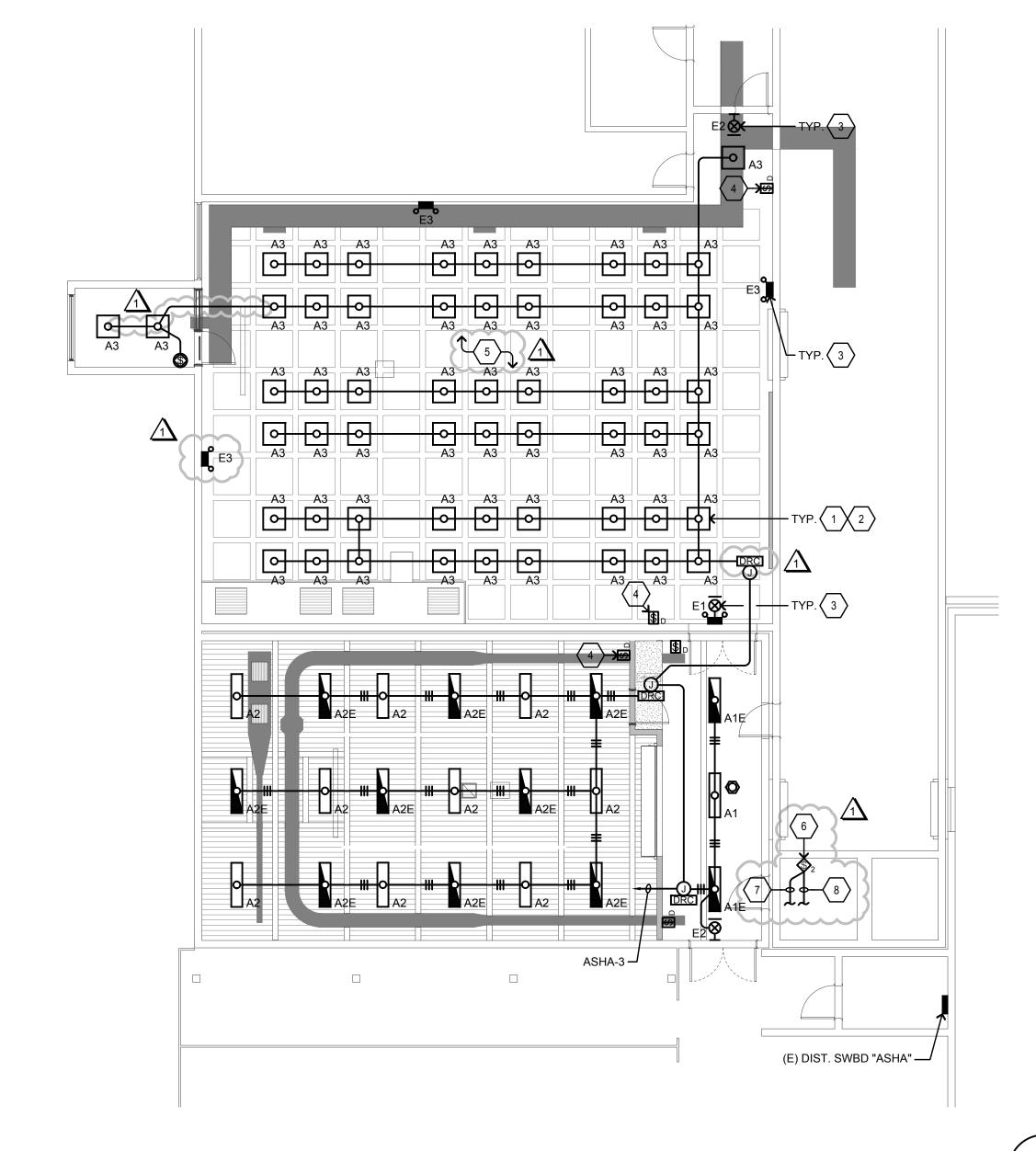
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PROJECT NO: 121030

DRAWN BY: CHECKED BY: PROJECT MGR: APPROVED BY: ARCHITECTURAL

POWER PLAN

AD2-E4.1



LIGHTING PLAN

SHEET NOTES

DURING DEMOLITION WORK.

- 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
- 7. CONNECT/CONTROL EXISTING LIGHT FIXTURE IN SPACE.
- 8. CONNECT/CONTROL EXISTING EXHAUST FAN IN SPACE.

LIGHT FIXTURE SCHEDULE

FIXTURE NOTES:

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).
- 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 CIF | RCUIT CONDU | JCTOR 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:

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

- MANUAL AREA CONTROLS CONTROLLING LIGHTING FOR PATH OF EGRESS SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED
- CONTRACTOR SHALL PROVIDE & INSTALL ¾"C. FROM ROOM CONTROLLER TO EACH DEVICE IN SPACE CONNECTED TO ROOM CONTROLLER MODULE (SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSOR, ETC.).
- SEE E6.2 FOR LIGHT FIXTURE CONTROLS.

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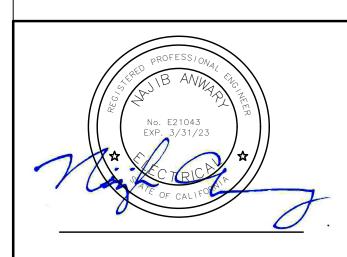
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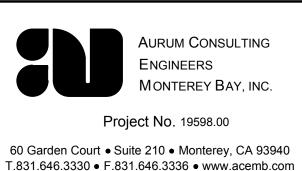
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DESCRIPTION

DATE ADDENDUM 1 03/11/2021

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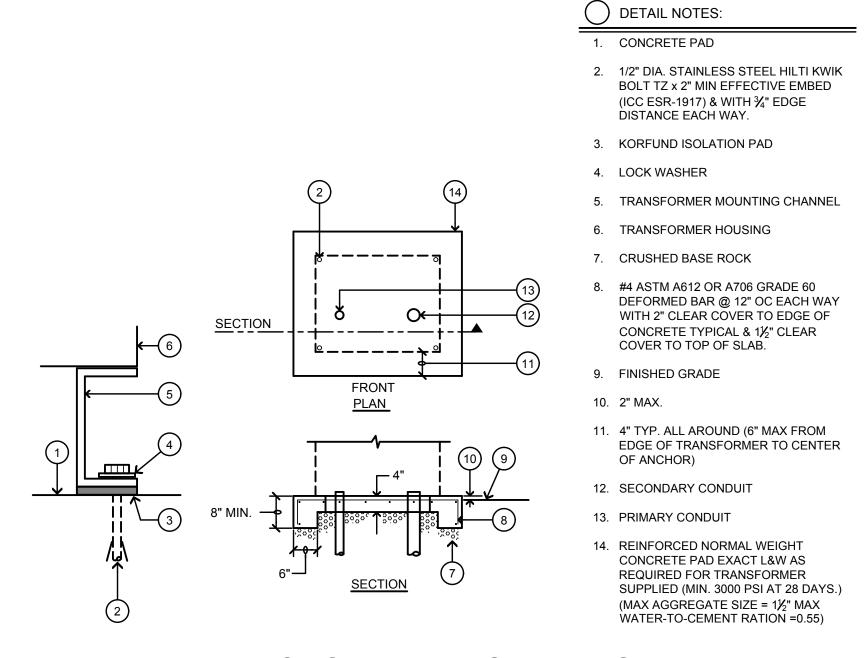
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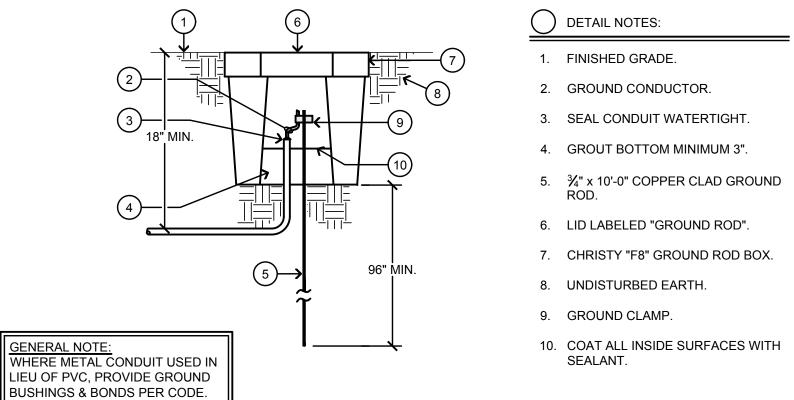
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SHEET TITLE
LIGHTING PLAN & LIGHT FIXTURE SCHEDULE

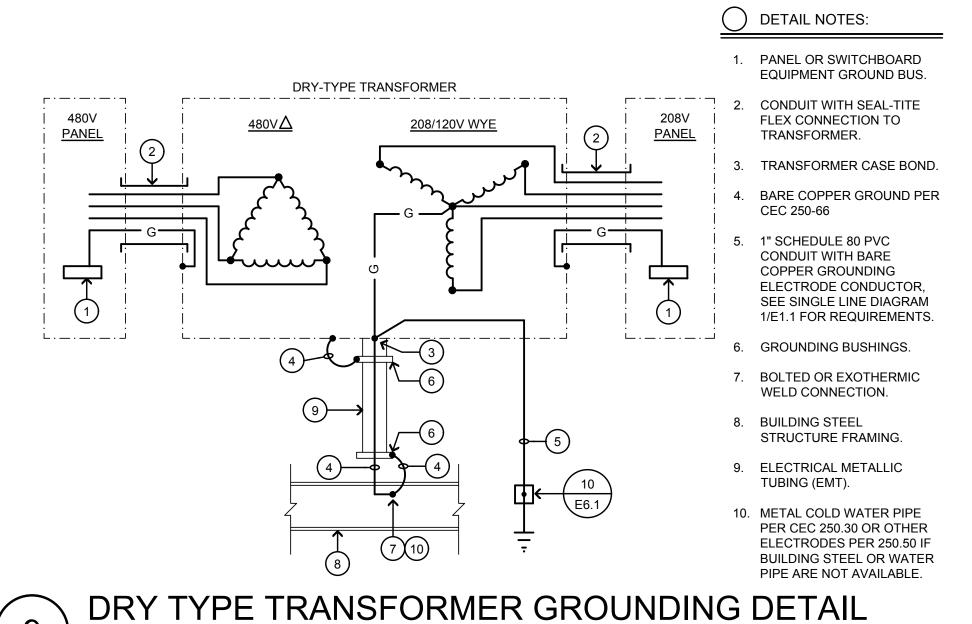
AD1-E5.1

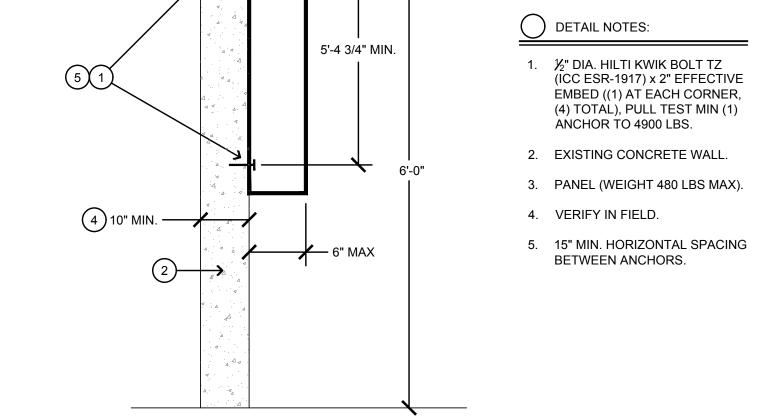






GROUND ROD BOX DETAIL





2-HR FIRE-RATED FLOOR PENETRATION

SEE FLOOR PLAN DRAWINGS

FOR RATED FLOOR LOCATIONS

FLOOR PENETRATION PER 2016 CALIFORNIA

BUILDING CODE, VOLUME 1, SECTION 714.4.1.1

EXCEPTION 2.

GROUT OR MORTAR

INSTALLED IN THE ANNULAR

SPACE THE FULL THICKNESS

OF THE FLOOR SLAB ----

- STEEL, FERROUS OR COPPER

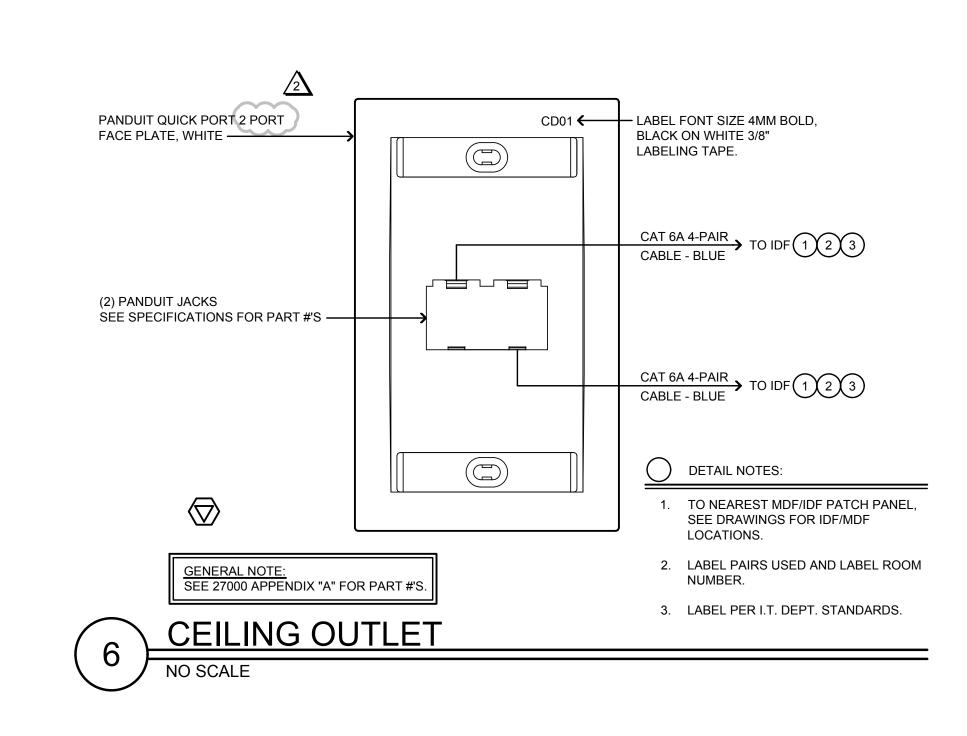
NOMINAL DIAMETER

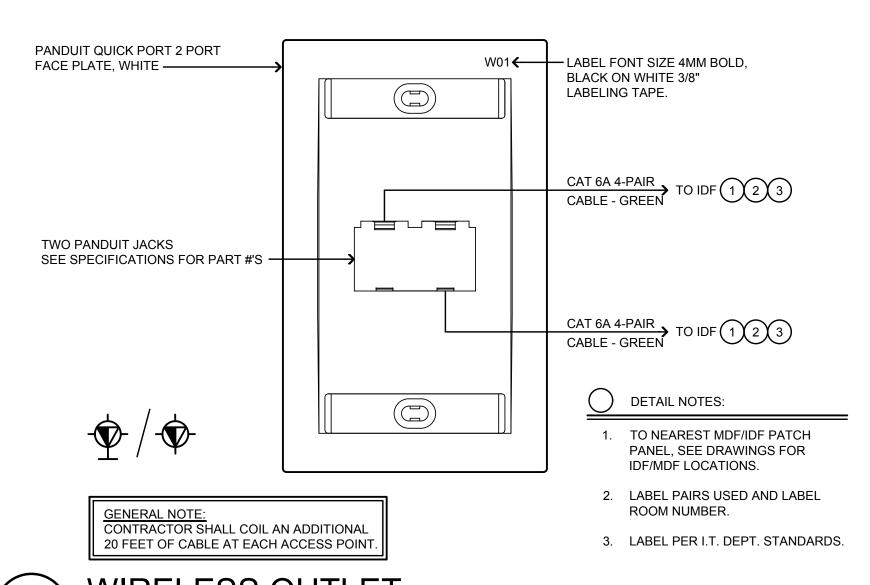
(E) 2 HR RATED FLOOR SLAB

CONDUITS, PIPES TUBES AND

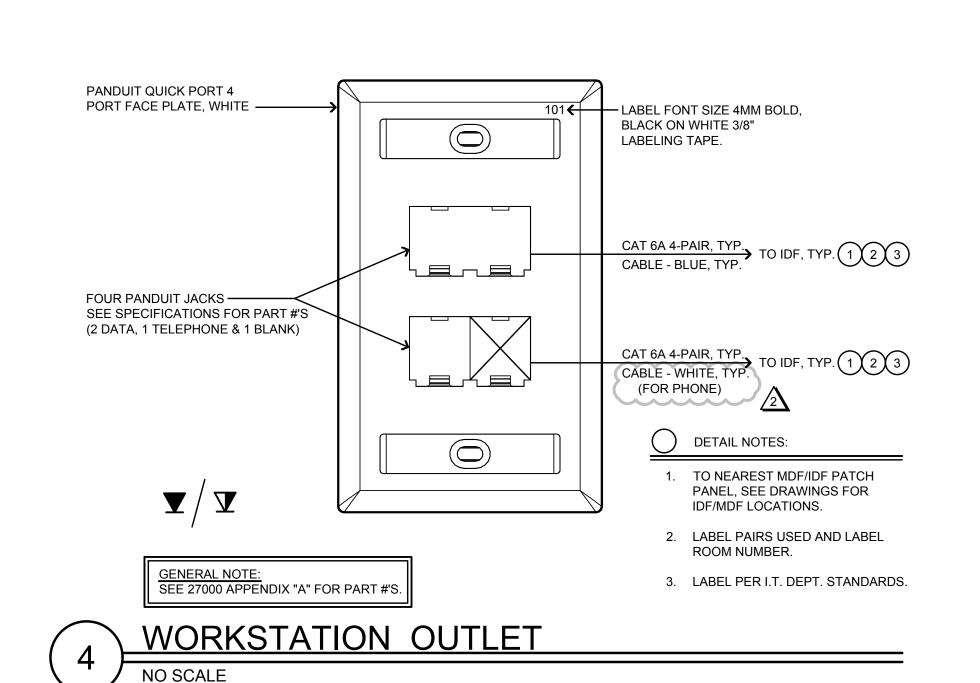
VENTS WITH A MAXIMUM 6-INCH

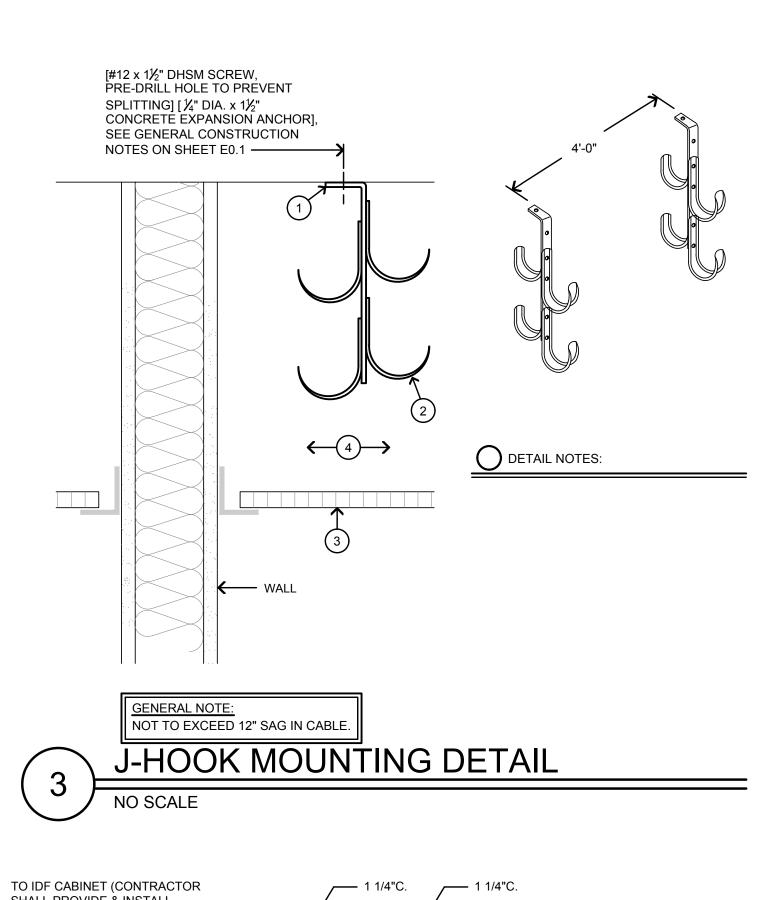












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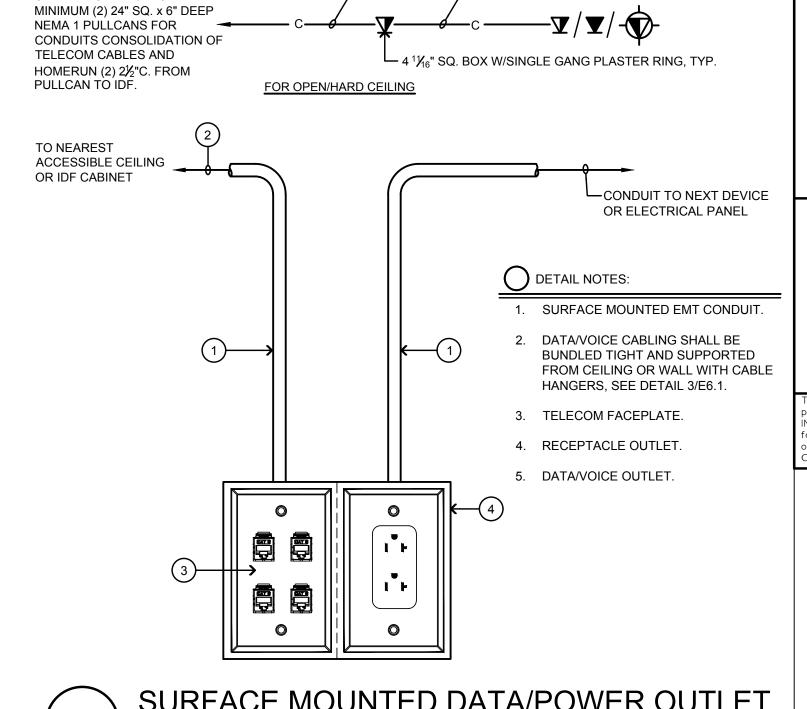
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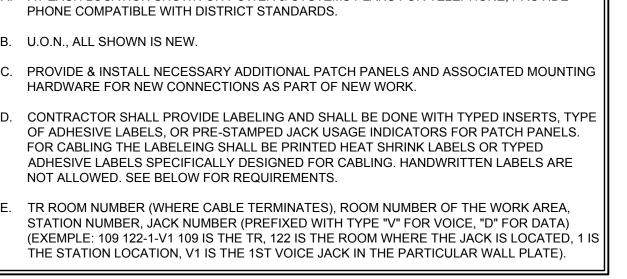
DESCRIPTION

ADDENDUM 2

DATE

04/28/2021





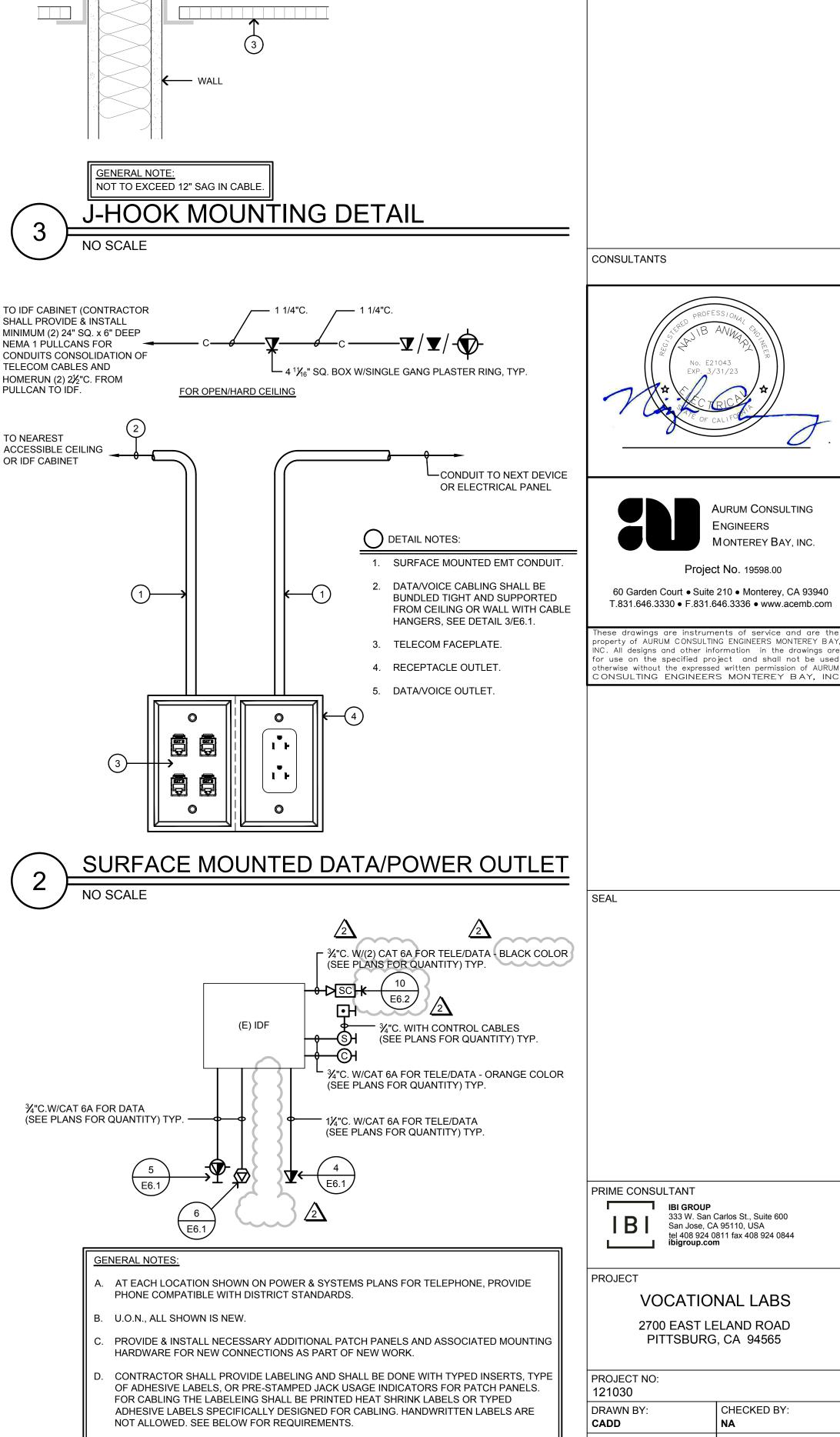
TELE/DATA RISER DIAGRAM

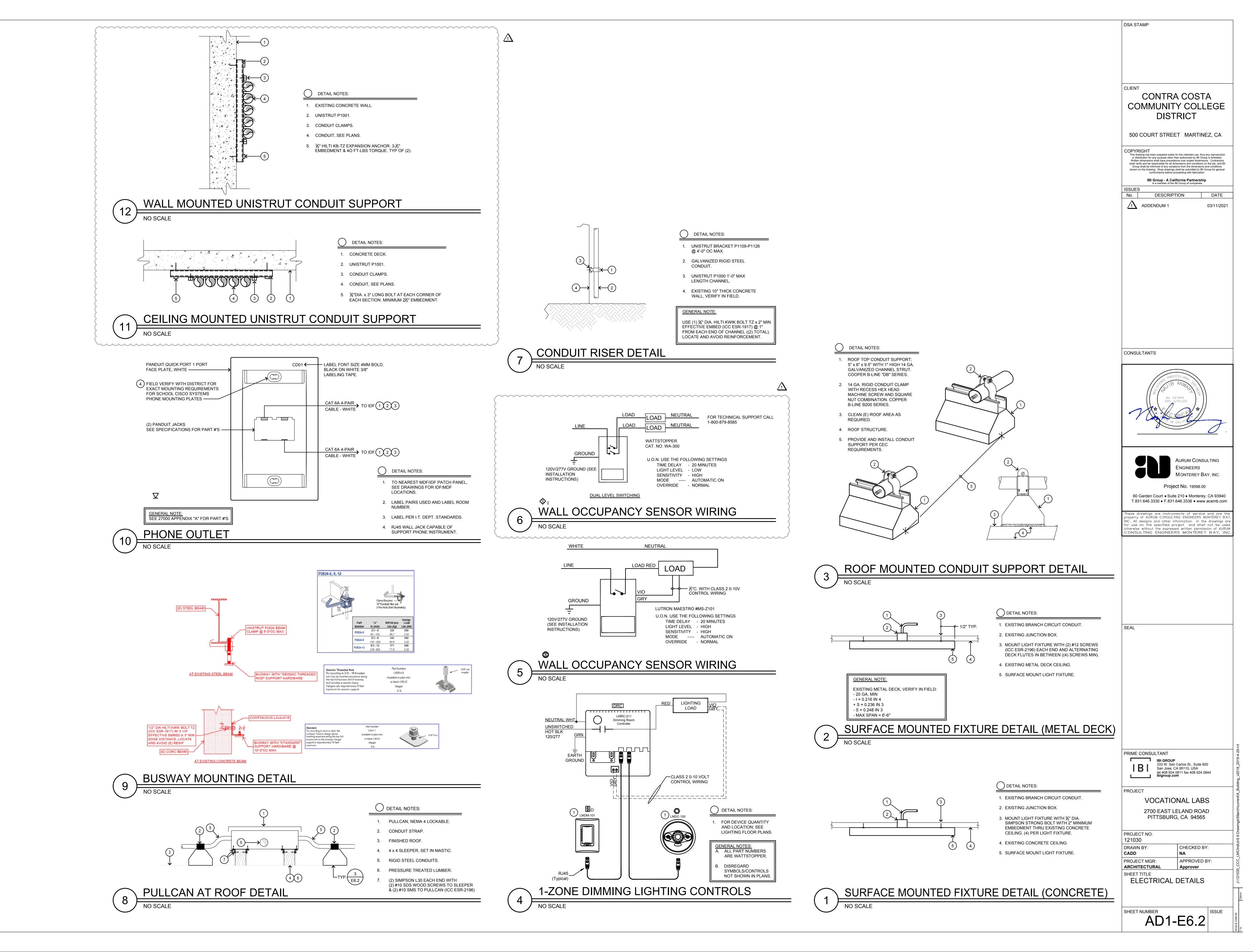
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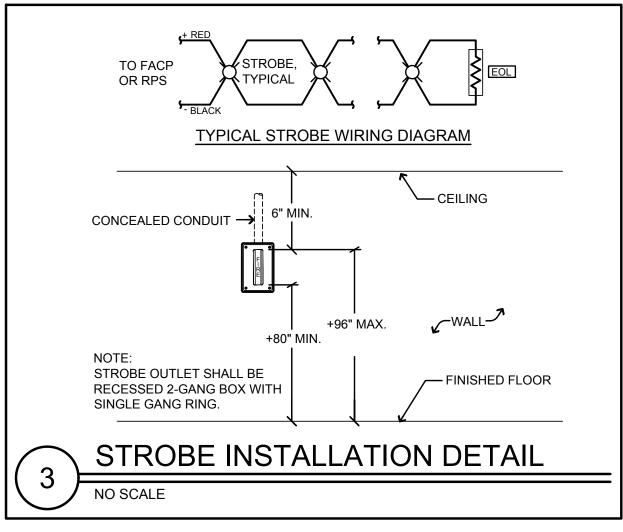
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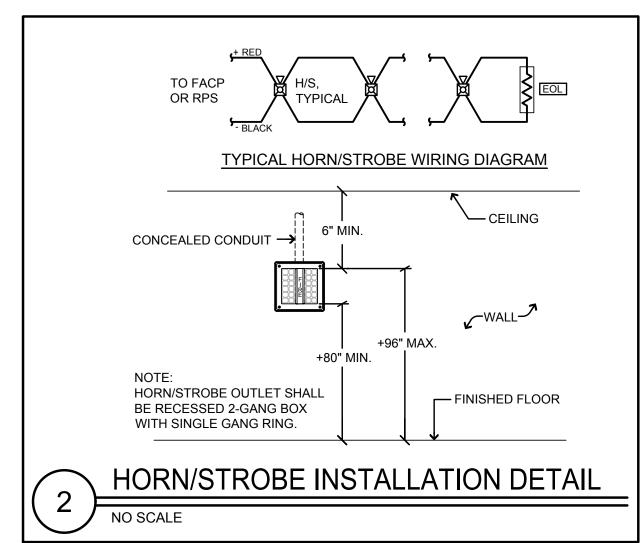
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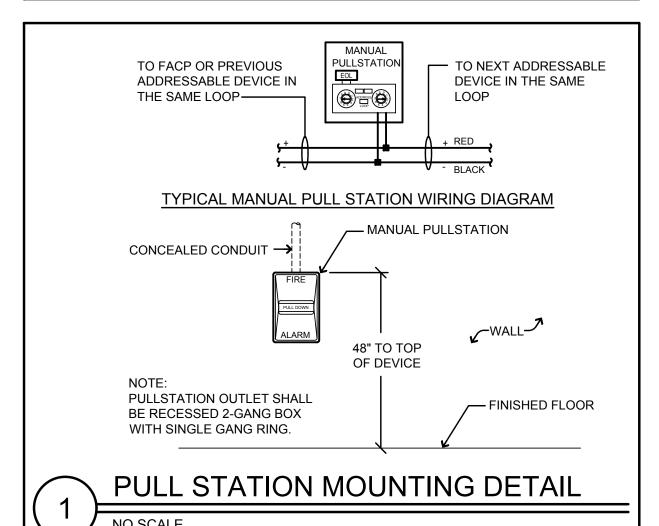
APPROVED BY:











FIRE ALARM EQUIPMENT LIST DESCRIPTION AND MODEL NUMBER MFGR'S PART No. **CSFM LISTING** EXISTING ADDRESSABLE FIRE ALARM 7165-0067:0144 CONTROL PANEL SIEMENS MXL SERIES WITH BUILT-IN DACT-UD2 COMMUNICATOR. (SEE BATTERY CALCULATIONS FOR SIZE OF BATTERIES REQUIRED.) ADDRESSABLE INTELLIGENT MANUAL PULL 7150-0067:0036 MSI-10B STATION, SIEMENS MS SERIES. WALL MOUNT, MULTI-CANDELA, FIRE ALARM STROBE WITH FIELD SELECTABLE CANDELA SETTING OF 15,15/75, 30, 60, 75, 95, 110, 115, 7125-0067:0248 135, 150, 177 & 185, RED FINISH, SIEMENS ZR SERIES. WALL MOUNT, MULTI-CANDELA, FIRE ALARM HORN/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15,15/75, 30, 75, 95, 7125-0067:0248 110, 135 & 185 AND SELECTABLE dBA SETTINGS OF 90 OR 95dBA. IN TEMPORAL PATTERN (CODE 3), RED FINISH, SIEMENS ZH SERIES. END OF LINE DEVICE. EOL

ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL). DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE

- WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760 . WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN
- UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
- 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
- PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD. 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. ALL DEVICES SHALL BE "CSFM" LISTED.
- B. 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 15DBA ABOVE THE AVERAGE SOUND LEVEL.
- I. 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.
- 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 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

12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY

- 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
- 15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."

PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.

- 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 UUFX OR UUJS 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.

FIRE ALARM GENERAL NOTES SYMBOLS & ABBREVIATIONS

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

DETAIL OR SECTION DESIGNATION.

ABBREVIATIONS

ARCH. ARCHITECT FSD FIRE SMOKE DAMPER AMERICAN WIRE INITIATING DEVICE CIRCUITS GAUGE BREAKER NEW CONDUIT NOTIFICATION APPLIANCE CIRCUIT BREAKER CKT CIRCUIT NOT IN CONTRACT CLG CEILING NO NUMBER **EXISTING** SIGNALING LINE CIRCUITS EOL END OF LINE TYP TYPICAL FIRE ALARM UNLESS OTHERWISE FIRE ALARM NOTED CONTROL PANEL WP WEATHERPROOF FURNISHED BY OTHERS

TYPICAL ZONE NOMENCLATURE

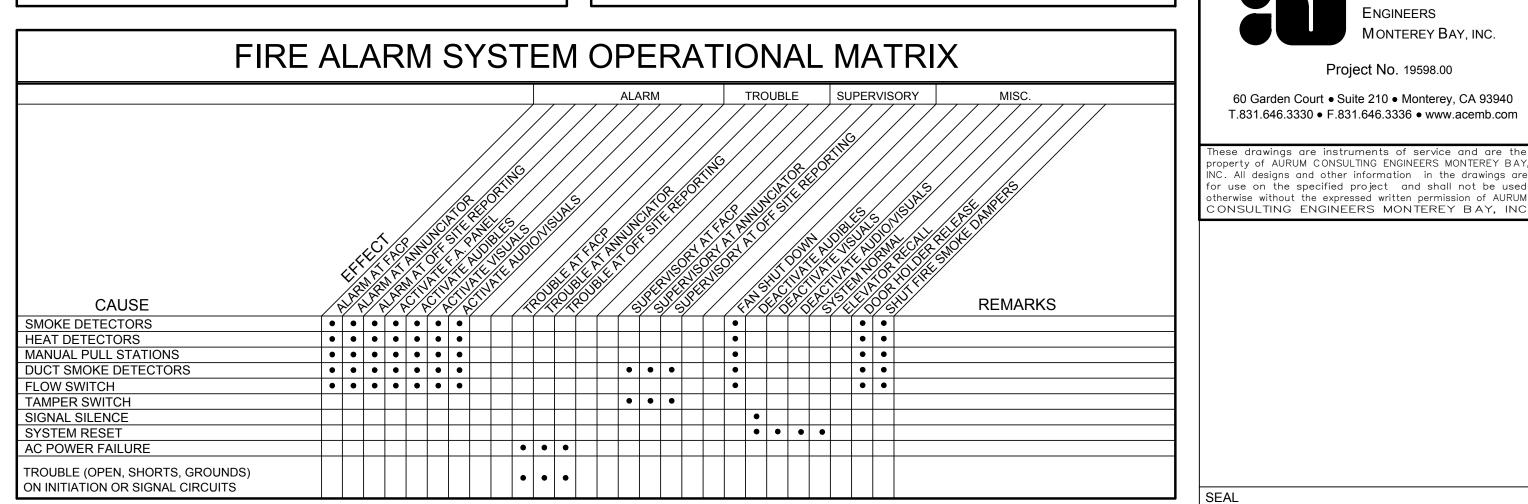
"S2" DENOTES SIGNAL CIRCUIT #2 "4" DENOTES DEVICE #4 "M" DENOTES MODULE DEVICE; "D" DENOTES DETECTOR ----- "1" DENOTES LOOP# M1-5 ─ "5" DENOTES DEVICE #5 CROSSHATCH INDICATES NUMBER OF WIRES REQUIRED, SUBSCRIPT LETTER INDICATES TYPE OF CIRCUIT. SEE

GENERAL NOTES THIS SHEET FOR NUMBER & TYPE OF WIRES AND CIRCUIT TYPE.

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 ANWARY PE.



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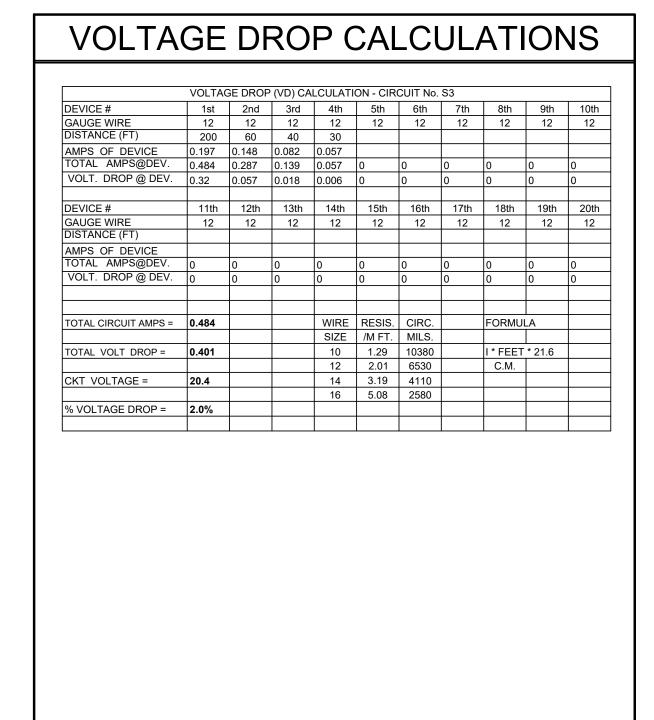
PROJECT NO: 121030 DRAWN BY:

PROJECT MGR: APPROVED BY: ARCHITECTURAL FIRE ALARM SYMBOLS, ABBREV., EQUIP. LIST, OP.

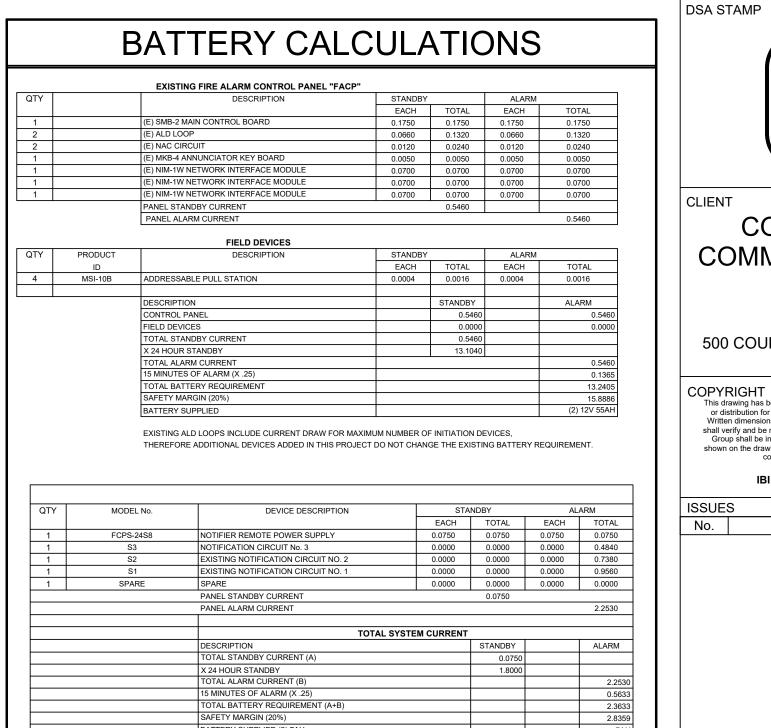
CHECKED BY:

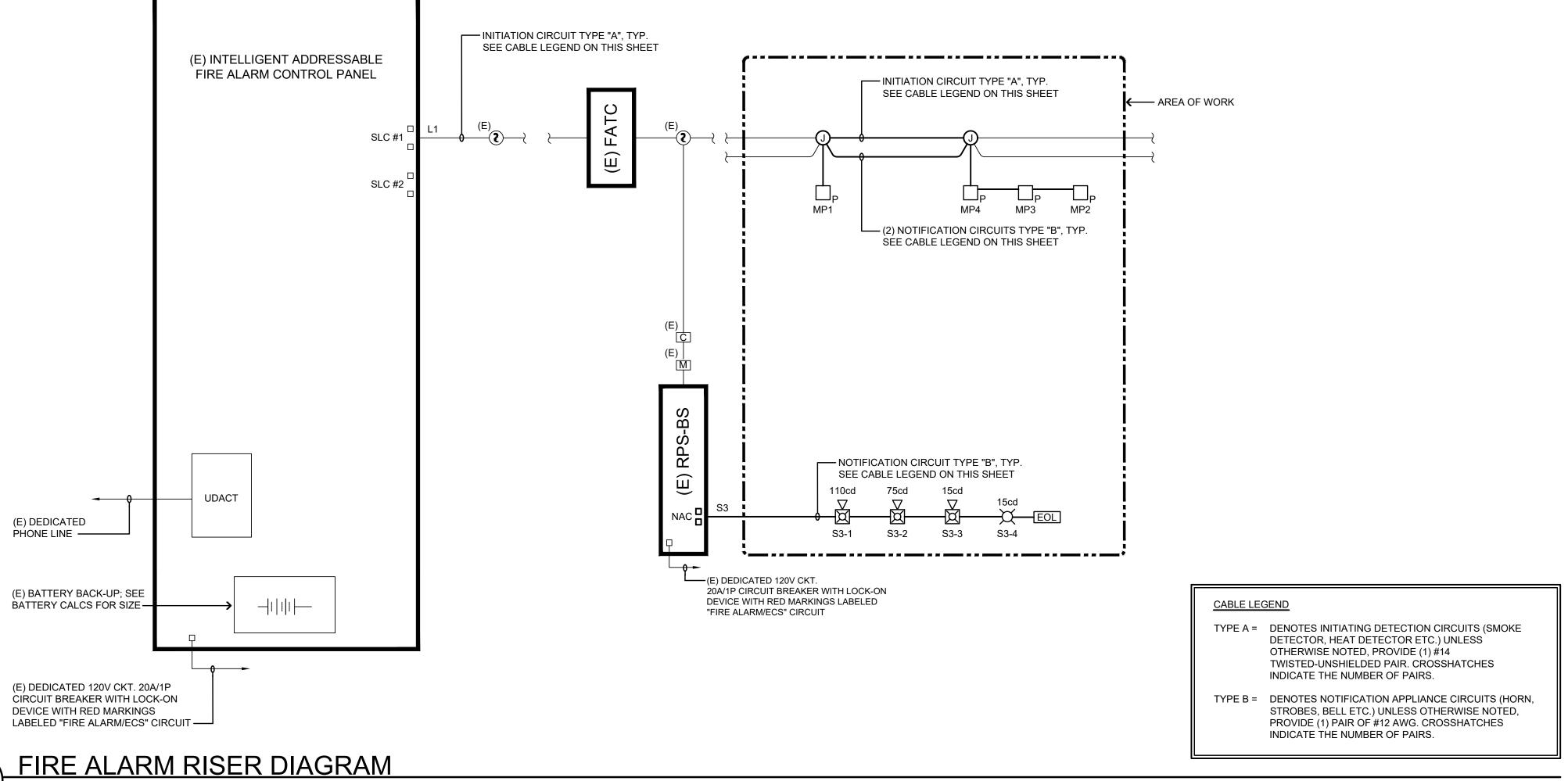
AD2-FA0.1

MATRIX, DETAILS & NOTES



| NS | | | BATTERY | CALC | CULA | ATIC | NS | 3 | |
|--------|------------------|--------------------------|--|--|-----------------|--|--|--|---|
| | | | EXISTING FIRE ALARM CONT | ROL PANEL "FACP" | | | | | |
| | QTY | | DESCRIPTIO | | STANDBY | 1 | ALARN | Λ | |
| | l l QII | | DESCRIPTION | DIN | EACH | TOTAL | EACH | то | TAI |
| n 10th | | | (E) SMB-2 MAIN CONTROL BOARD | | | | | | |
| . 12 | | | (E) ALD LOOP | | 0.1750 | 0.1750 | 0.1750 | 0.1 | |
| | 2 | | ` ' | | 0.0660 | 0.1320 | 0.0660 | 0.1 | |
| | 2 | | (E) NAC CIRCUIT | | 0.0120 | 0.0240 | 0.0120 | 0.0 | |
| | 1 | | (E) MKB-4 ANNUNCIATOR KEY BOAF | | 0.0050 | 0.0050 | 0.0050 | 0.0 | |
| 0 | 1 | | (E) NIM-1W NETWORK INTERFACE N | | 0.0700 | 0.0700 | 0.0700 | 0.0 | |
| 0 | | | (E) NIM-1W NETWORK INTERFACE N | | 0.0700 | 0.0700 | 0.0700 | 0.0 | |
| | 1 | | (E) NIM-1W NETWORK INTERFACE N | MODULE | 0.0700 | 0.0700 | 0.0700 | 0.0 | 700 |
| h 20th | | | PANEL STANDBY CURRENT | | | 0.5460 | | | |
| _ | | | PANEL ALARM CURRENT | | | | | 0.5 | 460 |
| 12 | | | FIELD DEVIC | res | | | | | |
| | QTY | PRODUCT | DESCRIPTIO | | STANDBY | | ALARN | 1 | |
| | | ID | DEGORIF IIC | | EACH | TOTAL | EACH | | TAL |
| 0 | 4 | MSI-10B | ADDRESSABLE PULL STATION | | 0.0004 | 0.0016 | 0.0004 | 0.0 | |
| 0 | | MOL-10D | ADDITIONAL POLE STATION | | 0.0004 | 0.0010 | 0.0004 | 0.0 | 0.0 |
| | | | DESCRIPTION | | + | STANDBY | | ALA | ARM |
| | | | CONTROL PANEL | | + | 0.5460 | | ALA | 0.5460 |
| | | | FIELD DEVICES | | + | 0.0000 | | | 0.0000 |
| | | | TOTAL STANDBY CURRENT | | | 0.5460 | | | 0.0000 |
| | | | | | | | | | |
| 6 | | | X 24 HOUR STANDBY TOTAL ALARM CURRENT | | | 13.1040 | | | 0.5400 |
| | | | 15 MINUTES OF ALARM (X .25) | | _ | | | | 0.5460 |
| | | | ` ' | | | | | | 0.1365 |
| | | | TOTAL BATTERY REQUIREMENT | | | | | | 13.2405 |
| | | | SAFETY MARGIN (20%) | | | | | 1 | 15.8886 |
| | | | | | | | | (0) | |
| | | | BATTERY SUPPLIED EXISTING ALD LOOPS INCLUDE CUF THEREFORE ADDITIONAL DEVICES | | | | | , | 12V 55AH |
| | | | EXISTING ALD LOOPS INCLUDE CUP | | | E THE EXISTIN | NG BATTERY | REQUIREME | 12V 55AH |
| | QTY | MODE | EXISTING ALD LOOPS INCLUDE CUF THEREFORE ADDITIONAL DEVICES | | CT DO NOT CHANG | STANDB | NG BATTERY | REQUIREME | 12V 55AH ENT. |
| | QTY | | EXISTING ALD LOOPS INCLUDE CUF THEREFORE ADDITIONAL DEVICES | ADDED IN THIS PROJECT | CT DO NOT CHANG | STANDB | Y TOTAL | REQUIREME AL EACH | ENT. ARM TOTAL |
| | QTY | FCPS-: | EXISTING ALD LOOPS INCLUDE CUF THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY | CT DO NOT CHANG | STANDB EACH 0.0750 | NG BATTERY NY TOTAL 0.0750 | REQUIREME AL EACH 0.0750 | ARM TOTAL 0.0750 |
| | | FCPS-: | EXISTING ALD LOOPS INCLUDE CUF THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F NOTIFICATION CIRCL | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY | CT DO NOT CHANG | STANDB EACH 0.0750 | Y TOTAL | REQUIREME AL EACH | ARM TOTAL 0.0750 0.4840 |
| | 1 | FCPS-: \$3 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F 3 NOTIFICATION CIRCL EXISTING NOTIFICAT | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 2 | CT DO NOT CHANG | STANDB EACH 0.0750 0.0000 | NG BATTERY NY TOTAL 0.0750 | REQUIREME AL EACH 0.0750 | ARM TOTAL 0.0750 |
| | 1 1 | FCPS-: | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F 3 NOTIFICATION CIRCL EXISTING NOTIFICAT | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 2 | CT DO NOT CHANG | STANDB EACH 0.0750 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 | AL EACH 0.0750 0.0000 | ARM TOTAL 0.0750 0.4840 |
| | 1 1 1 | FCPS-: \$3 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATIO | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 2 | CT DO NOT CHANG | STANDB EACH 0.0750 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCL EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATION CIRCLE EXISTING NOTIFICATIO | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 2 FION CIRCUIT NO. 1 | CT DO NOT CHANG | STANDB EACH 0.0750 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F NOTIFICATION CIRC EXISTING NOTIFICAT EXISTING NOTIFICAT RE SPARE | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY UIT No. 3 TION CIRCUIT NO. 2 TION CIRCUIT NO. 1 | CT DO NOT CHANG | STANDB EACH 0.0750 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 0.0000 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F B NOTIFICATION CIRC E EXISTING NOTIFICAT E SPARE PANEL STANDBY CU | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FIGON CIRCUIT NO. 2 FIGON CIRCUIT NO. 1 PREENT | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 0.0000 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F B NOTIFICATION CIRCL C EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FIGON CIRCUIT NO. 2 FIGON CIRCUIT NO. 1 PREENT | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 0.0000 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.9560 0.0000 2.2530 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F S NOTIFICATION CIRCU E EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 2 FION CIRCUIT NO. 1 FIRENT RENT | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0750 | AL EACH 0.0750 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F S NOTIFICATION CIRCL EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 FIRENT RENT TO | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 TANDBY 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.9560 0.0000 2.2530 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F SOURCE EXISTING NOTIFICATION CIRCLE DEVICE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU X 24 HOUR STANDBY | VICE DESCRIPTION POWER SUPPLY UIT No. 3 TION CIRCUIT NO. 1 IRRENT TO TRENT TRENT TO TRENT TR | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 2.2530 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F SOURCE EXISTING NOTIFICATION CIRCLE DEVICTOR SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU X 24 HOUR STANDBY TOTAL ALARM CURF | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY UIT NO. 3 TION CIRCUIT NO. 2 TION CIRCUIT NO. 1 IRRENT RENT TO IRRENT (A) Y RENT (B) | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 TANDBY 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 2.2530 |
| | 1 1 1 1 | FCPS-1 S3 S2 S1 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F S NOTIFICATION CIRC EXISTING NOTIFICAT EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU X 24 HOUR STANDBY TOTAL ALARM CURF 15 MINUTES OF ALAR | VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 FREENT TO FREENT REPORT (A) Y REPORT (B) RM (X .25) | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 TANDBY 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 2.2530 ALARM |
| | 1 1 1 1 | FCPS-1 S3 S2 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F S NOTIFICATION CIRC EXISTING NOTIFICAT EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU X 24 HOUR STANDBY TOTAL ALARM CURF 15 MINUTES OF ALAI TOTAL BATTERY RE | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 PREENT REENT TO VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 PREENT REENT TO QUIRENT (A) Y REENT (B) RM (X .25) QUIREMENT (A+B) | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 TANDBY 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.9560 0.0000 2.2530 |
| | 1 1 1 1 | FCPS-1 S3 S2 | EXISTING ALD LOOPS INCLUDE CUP THEREFORE ADDITIONAL DEVICES L No. DE 24S8 NOTIFIER REMOTE F S NOTIFICATION CIRC EXISTING NOTIFICAT EXISTING NOTIFICAT RE SPARE PANEL STANDBY CU PANEL ALARM CURF DESCRIPTION TOTAL STANDBY CU X 24 HOUR STANDBY TOTAL ALARM CURF 15 MINUTES OF ALAR | ADDED IN THIS PROJECT VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 PREENT REENT TO VICE DESCRIPTION POWER SUPPLY UIT No. 3 FION CIRCUIT NO. 1 PREENT REENT TO QUIRENT (A) Y REENT (B) RM (X .25) QUIREMENT (A+B) | CT DO NOT CHANG | STANDB EACH 0.0750 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | Y TOTAL 0.0750 0.0000 0.0000 0.0000 0.0000 TANDBY 0.0750 | AL EACH 0.0750 0.0000 0.0000 0.0000 | ARM TOTAL 0.0750 0.4840 0.7380 0.9560 0.0000 2.2530 ALARM 2.253 0.563 |





DIV. OF THE STATE ARCHITEC APP: 01-118866 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: <u>07/09/2020</u>

IDENTIFICATION STAMP

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

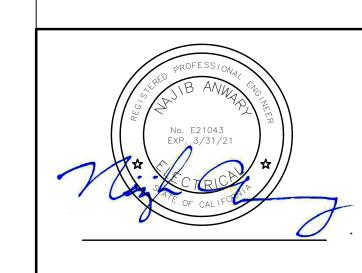
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CONSULTANTS



AURUM CONSULTING **ENGINEERS** MONTEREY BAY, INC. Project No. 19598.00

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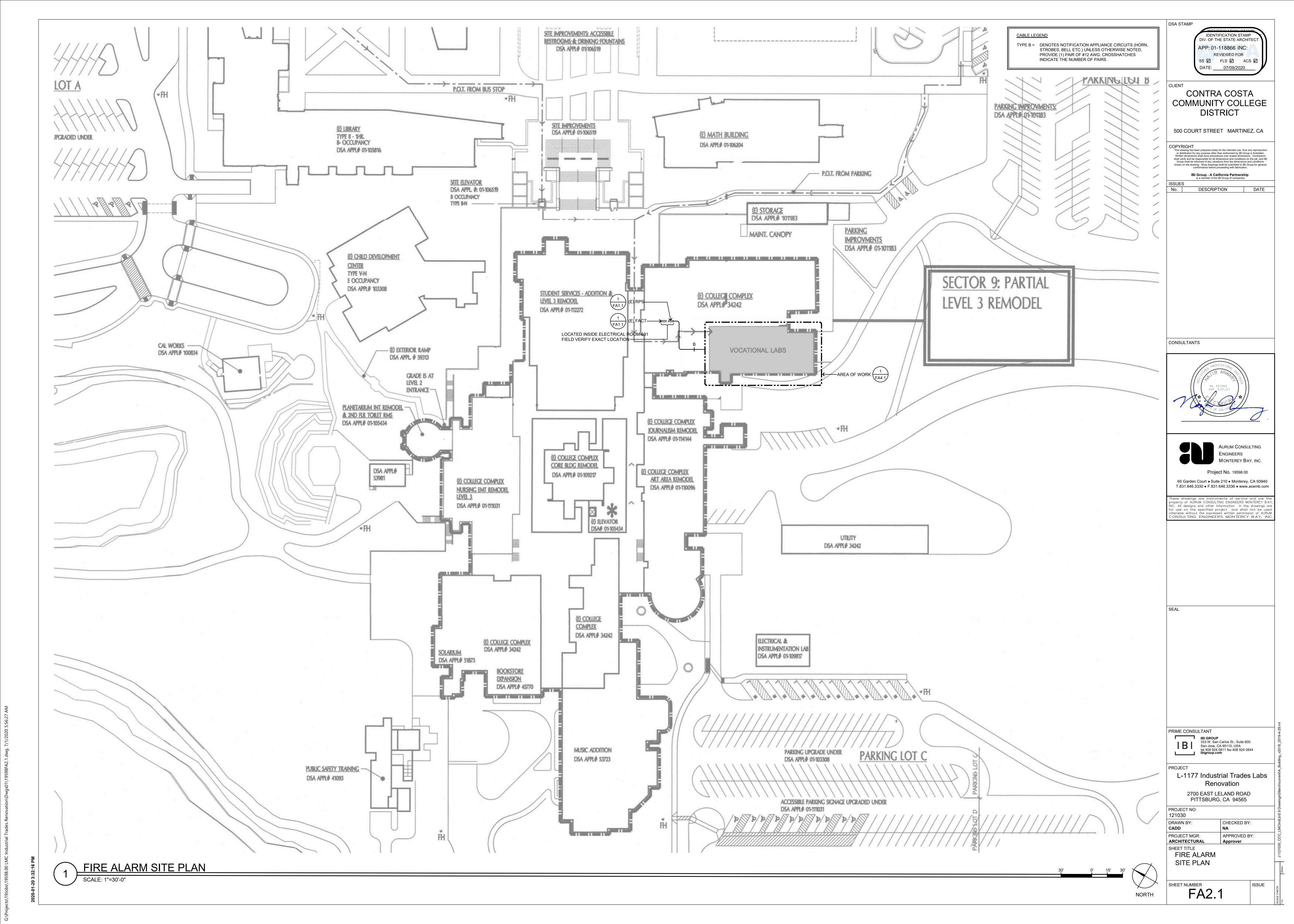
L-1177 Industrial Trades Labs Renovation 2700 EAST LELAND ROAD PITTSBURG, CA 94565

PROJECT NO: 121030

DRAWN BY: CHECKED BY: PROJECT MGR: APPROVED BY:

ARCHITECTURAL Approver SHEET TITLE FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP

CALCULATIONS SHEET NUMBER ISSUE FA1.1



OFFICE 103 HVAC LAB

FIRE ALARM PLAN



- 1. HOMERUN TO EXISTING RPS-BS. 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 ARES NOT PART OF DEMOLITION WORK.

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

CLIENT

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

500 COURT STREET MARTINEZ, CA

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.

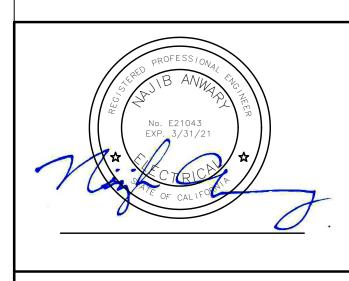
TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

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L-1177 Industrial Trades Labs

Renovation 2700 EAST LELAND ROAD PITTSBURG, CA 94565

PROJECT NO: 121030 DRAWN BY: CADD CHECKED BY: PROJECT MGR: ARCHITECTURAL APPROVED BY:

SHEET TITLE
FIRE ALARM PLAN

FA4.1