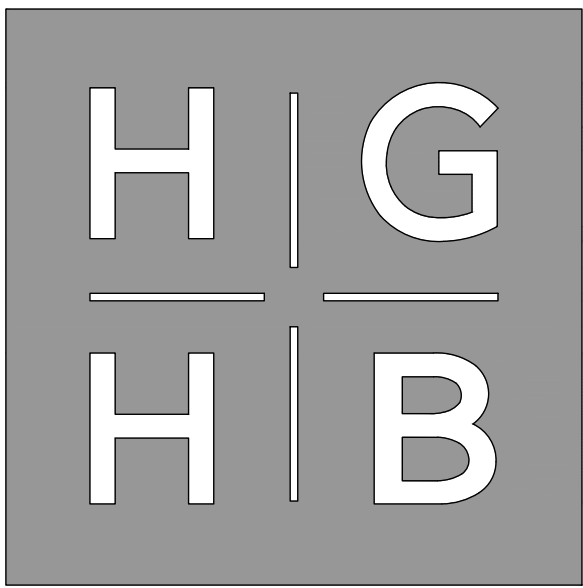
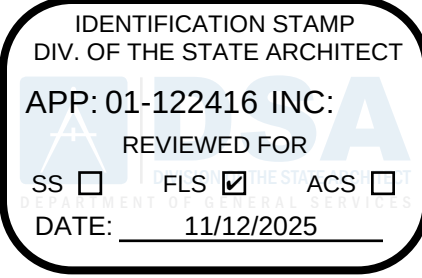


BUILDING 'F' DEMOLITION
PACIFIC GROVE ADULT EDUCATION - PGUSD
1025 Lighthouse Avenue, Pacific Grove, CA 93950



Architecture, Planning, Urban Design
550 Hartnell Street, Suite J
Monterey, California 93940
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BUILDING 'F'
DEMOLITION

PACIFIC GROVE ADULT EDUCATION
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950

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| GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <div>1. CODE REQUIREMENTS: SEE APPLICABLE CODES THIS SHEET.</div> <div>2. ALL LOCAL CODES, ORDINANCES AND REGULATIONS ARE HEREBY MADE PART OF THE PLANS AND SPECIFICATIONS. IF THERE ARE ANY CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS AND THE LOCAL CODES, ORDINANCES, OR REGULATIONS, THE LATTER SHALL GOVERN.</div> <div>3. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME SIZE AND CHARACTER AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED.</div> <div>4. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. CONTRACTOR TO FURNISH AND INSTALL ALL MATERIALS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS.</div> <div>5. GENERAL DIMENSIONING GUIDELINE:<div>A. DIMENSIONS AT INTERIOR WALLS ARE GIVEN TO of STUDS (FOS), UNLESS OTHERWISE NOTED.</div><div>B. WINDOW UNITS ARE DIMENSIONED IN WINDOW TYPES, AND CODED ON PLANS.</div><div>C. DOOR SIZES ARE DIMENSIONED IN THE DOOR SCHEDULE AND CODED ON PLANS.</div></div> <div>6. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.</div> <div>7. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, and THE WRITTEN FIRE LIFE SAFETY PLAN.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <div>&amp; AND</div> <div>Z ANGLE</div> <div>@ AT</div> <div>Q CENTERLINE</div> <div># POUND OR NUMBER</div> <div># PROPERTY LINE</div> <div>AB ANCHOR BOLT</div> <div>ABV ABOVE</div> <div>AC ASPHALTIC CONCRETE</div> <div>ACC ACCESSIBLE</div> <div>ACOUST. ACOUSTICAL</div> <div>ADJ ADJUSTABLE OR ADJACENT</div> <div>AFF ABOVE FINISH FLOOR</div> <div>AGG AGGREGATE</div> <div>ALT ALTERNATE</div> <div>AL ALUMINUM</div> <div>ALS ASSISTIVE LISTENING SYSTEM</div> <div>APPROX APPROXIMATE</div> <div>ARCH ARCHITECTURAL</div> <div>AT ACOUSTIC TILE</div> <div>BD BOARD</div> <div>BM BEAM</div> <div>BLK BLOCK</div> <div>BLKG BLOCKING</div> <div>BLDG BUILDING</div> <div>BOT BOTTOM</div> <div>BUR BUILT-UP ROOFING</div> <div>CAB CABINET</div> <div>CAB CABINET</div> <div>CA CARPET</div> <div>CI CAST IRON</div> <div>CLG CEILING</div> <div>CLR CLEAR</div> <div>CTR CENTER</div> <div>CT CERAMIC TILE</div> <div>CW COLD WATER</div> <div>COL COLUMN</div> <div>CONT CONTINUOUS</div> <div>CONC CONCRETE</div> <div>CONST CONSTRUCTION</div> <div>CJ CONTROL JOINT</div> <div>CMU CONCRETE MASONRY UNIT</div> <div>DET DETAIL</div> <div>DF DRINKING FOUNTAIN OR DOUGLAS FIR</div> <div>DIAG DIAGONAL</div> <div>DIA DIAMETER</div> <div>DIM DIMENSION</div> <div>DP DIMENSION POINT</div> <div>DR DOOR</div> <div>DS DOWNSPOUT</div> <div>DWG DRAWING</div> <div>E EACH</div> <div>EL ELECTRICAL</div> <div>ELEV ELEVATION</div> <div>ELEV ELEVATOR</div> <div>ENCL ENCLOSURE</div> <div>ENGR ENGINEER</div> <div>EQ EQUAL</div> <div>EQPT EQUIPMENT</div> <div>EXIST (E) EXISTING</div> <div>EJ EXPANSION JOINT</div> <div>EXP EXPOSED</div> <div>EXT EXTERIOR</div> <div>FOC FACE OF CONCRETE</div> <div>FOF FACE OF FINISH</div> <div>FOS FACE OF STUD</div> <div>FPS FACE OF PLYWOOD SHEATHING</div> <div>FRP FINISH</div> <div>FR FINISH FLOOR</div> <div>FF FIRE ALARM</div> <div>FA FIRE EXTINGUISHER+BRACKET</div> <div>FEB FIRE EXTINGUISHER+CABINET</div> <div>FEC KITCHEN FIRE EXTINGUISHER</div> <div>KFE KITCHEN FIRE EXTINGUISHER</div> <div>FXT FIXTURE</div> <div>FLR FLOOR</div> <div>FD FLOOR DRAIN</div> <div>FLUOR FLUORESCENT</div> <div>FTG FOOTING</div> <div>FT FOOT OR FEET</div> <div>FDN FOUNDATION</div> <div>FR FRAME</div> <div>GALV GALVANIZED</div> <div>GSM GALVANIZED SHEET METAL</div> <div>GA GAUGE</div> <div>GL GLASS</div> <div>GLB GLULAM BEAM</div> <div>GYP GYPSUM</div> <div>GWB GYPSUM WALL BOARD</div> <div>HDWR HARDWARE</div> <div>HDWD HARDWOOD</div> <div>HDR HEADER</div> <div>HGT HEIGHT</div> <div>HM HOLLOW METAL</div> <div>HORIZ HORIZONTAL</div> <div>HB HOSE BIBB</div> <div>HR HOUR</div> <div>HW HOT WATER</div> <div>INCL INCLUDE</div> <div>ID INSIDE DIAMETER</div> <div>INSUL INSULATION</div> <div>INT INTERIOR</div> <div>JOINT JOINT</div> <div>JOIST JOIST</div> <div>LAM LAMINATE</div> <div>LAV LAVATORY</div> <div>LIT LIGHT</div> <div>LVT LUXURY VINYL TILE</div> <div>MB MACHINE BOLT</div> <div>MFR MANUFACTURER</div> <div>MO MASONRY OPENING</div> <div>MAX MAXIMUM</div> <div>MECH MECHANICAL</div> <div>MEMB MEMBRANE</div> <div>MET METAL</div> <div>MIN MINIMUM</div> <div>MISC MISCELLANEOUS</div> <div>MTD MOUNTED</div> <div>MUL MULLION</div> <div>(N) NEW</div> <div>N/A NOT APPLICABLE</div> <div>NIC NOT IN CONTRACT</div> <div>NOM NOMINAL</div> <div>NO # NUMBER</div> <div>NR NON RATED</div> <div>NTS NOT TO SCALE</div> <div>OA OVERALL</div> <div>OC ON CENTER</div> <div>OD OUTSIDE DIAMETER</div> <div>OF OCCUPANT FACTOR</div> <div>OH OVERHEAD</div> <div>OL OCCUPANT LOAD</div> <div>OPP OPPOSITE</div> <div>PNL PANEL</div> <div>PR PAIR</div> <div>PT PARTITION</div> <div>PTN PLASTER</div> <div>PLAS PLASTIC LAMINATE</div> <div>PL PLATE</div> <div>PWD PLYWOOD</div> <div>PS PLYWOOD SHEATHING</div> <div>PT POINT OR PAINT</div> <div>PVMT PAVEMENT</div> <div>QT QUARRY TILE</div> <div>R RADIUS OR RISER</div> <div>RD ROOF DRAIN</div> <div>REINF REINFORCED</div> <div>REQ REQUIRED</div> <div>RES RESILIENT</div> <div>REV REVISION OR REVISED</div> <div>RF RESINOUS FLOORING</div> <div>RWD REDWOOD</div> <div>RWL RAIN WATER LEADER</div> <div>RO ROUGH OPENING</div> <div>SAD SEE ARCHITECTURAL DRAWINGS</div> <div>SAP SUSPENDED ACOUSTIC PANEL</div> <div>SC SOLID CORE, SEALED CONCRETE</div> <div>SCD SEE CIVIL DRAWINGS</div> <div>SCHD SCHEDULE</div> <div>SECT SECTION</div> <div>SED SEE ELECTRICAL DRAWINGS</div> <div>SF SQUARE FEET</div> <div>SLD SEE LANDSCAPE DRAWINGS</div> <div>SMD SEE MECHANICAL DRAWINGS</div> <div>SH SHELF</div> <div>SHT SHEET</div> <div>SIM SIMILAR</div> <div>SPEC SPECIFICATION</div> <div>SQ SQUARE</div> <div>SSD SEE STRUCTURAL DRAWINGS</div> <div>STD STANDARD</div> <div>STL STEEL</div> <div>STRUC STRUCTURAL</div> <div>SUSP SUSPENDED</div> <div>SYM SYMMETRICAL</div> <div>SYS SYSTEM</div> <div>T TREAD</div> <div>TEMP TEMPERED</div> <div>THICKNESS THICKNESS</div> <div>THRESHOLD THRESHOLD</div> <div>TCA THE COUNCIL OF AMERICA</div> <div>T&amp;G TONGUE &amp; GROVE</div> <div>TOC TOP OF CONCRETE</div> <div>TP TOP OF PAVEMENT</div> <div>TPS TOP OF PLYWOOD SHEATHING</div> <div>TOS TOP OF STEEL</div> <div>TW TOP OF WALL</div> <div>TS TUBE STEEL</div> <div>TYP TYPICAL</div> <div>TEN TYPICAL EDGE NAIL</div> <div>UN UNLESS OTHERWISE NOTED</div> <div>VF VERIFY IN FIELD</div> <div>VERT VERTICAL</div> <div>VGDF VERTICAL GRAIN DOUGLAS FIR</div> <div>VCT VINYL COMPOSITION TILE</div> <div>VWC VINYL WALL COVERING</div> <div>WP WATERPROOF</div> <div>WWM WELDED WIRE MESH</div> <div>WDW WINDOW</div> <div>W/ WITH</div> <div>W/O WITHOUT</div> <div>WD WOOD</div> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <div>ARCHITECTURAL</div> <div>1 A0.0 TITLE SHEET</div> <div>CIVIL</div> <div>*C1 SITE DEMOLITION PLAN</div> <div>*C2 CONSTRUCTION DETAILS</div> <div>*C3 EROSION AND SEDIMENT CONTROL PLAN</div> <div>4 *C4 EROSION &amp; SEDIMENT CONTROL PLAN DETAILS</div> <div>ELECTRICAL</div> <div>*E001 SYMBOLS, ABBREVIATIONS, GENERAL CONSTRUCTION NOTES, LIGHT FIXTURE SCHEDULE, CODES, SHEET INDEX</div> <div>*E101 ELECTRICAL SINGLE LINE DIAGRAM &amp; DETAIL</div> <div>*E201 ELECTRICAL SITE PLAN</div> <div>*E301 ELECTRICAL DEMOLITION PLAN &amp; GENERAL DEMOLITION NOTES</div> <div>5 *E701 ELECTRICAL SPECIFICATIONS</div> <div>FIRE ALARM</div> <div>*FA001 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS &amp; NOTES</div> <div>*FA101 FIRE ALARM RISER DIAGRAM, BATTERY &amp; VOLTAGE DROP CALCULATIONS</div> <div>*FA201 FIRE ALARM SITE PLAN</div> <div>*FA401 FIRE ALARM PLAN</div> <div>5 *FA701 FIRE ALARM SPECIFICATIONS</div> <div>15 TOTAL SHEETS</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| APPLICABLE CODES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| <div>1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:<div>1.1 2022 CALIFORNIA BUILDING CODE - D.S.A.</div><div>1.2 2022 CALIFORNIA BUILDING CODE - S.F.M.</div><div>1.3 2022 CALIFORNIA CODE REGULATIONS:<div>A. TITLE 8, INDUSTRIAL CODES</div><div>B. TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS</div><div>C. TITLE 21, PUBLIC WORKS</div><div>D. 2025 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.<br/>2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R.<br/>2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R.<br/>2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R.<br/>2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R.<br/>2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.<br/>2022 CALIFORNIA ELEVATOR CODE, PART 7, TITLE 24 C.C.R.<br/>2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.<br/>2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.<br/>TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS<br/>2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.<br/>2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR</div><div>E. FOR A COMPLETE LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80</div></div></div> <div>1.4 NATIONAL BOARD OF FIRE UNDERWRITERS</div> <div>1.5 STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY</div> <div>1.6 ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHAL</div> <div>1.7 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN</div> <div>2. ALL BARRIER FREE ITEMS SHALL COMPLY WITH TITLE 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS, 2022.</div> <div>3. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES.WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.</div> <div>4. PROTECTION DURING WELDING: CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE C.F.C. FOR REQUIREMENTS FOR ON SITE WELDING.</div> <div>5. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF THE CALIFORNIA OCCUPATIONAL REGULATIONS. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                             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| DSA ADMINISTRATIVE REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| <div>1. A COPY OF ALL APPLICABLE PARTS OF TITLE 24 C.C.R. REFERRED TO BY THE PLANS &amp; SPECIFICATIONS, INCLUDING PARTS 1 to 5 OF TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.</div> <div>2. ALL CONSTRUCTION CHANGE DIRECTIVE AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DIRECTIVE AND ADDENDA ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-336, PART 1, TITLE 24.</div> <div>3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS AND INSPECTION SHEET.</div> <div>4. TESTS OF MATERIALS SHALL AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24, AND THE OWNER SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST SHALL BE PER GENERAL CONDITIONS.</div> <div>5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.</div> <div>6. PROJECT INSPECTOR EMPLOYED BY THE DISTRICT SHALL BE APPROVED BY DSA. INSPECTION SHALL BE CLASS 2 PROJECT INSPECTOR IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE PROJECT INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.</div> <div>7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.</div> <div>8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.</div> <div>9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341, PART 1, TITLE 24.</div> <div>10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.</div> <div>11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.</div> <div>12. SHOULD ANY CONDITION(S) DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR, IF A CHANGE IN SCOPE OF WORK PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.</div> <div>13. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.</div> <div>14. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING: ARCHITECT OF RECORD, DELEGATED PROFESSIONAL ENGINEER, DSA.</div> <div>15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND SPECIFICATIONS FOR THE PROJECT.</div> <div>GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.</div> |  | <div></div> <div>BUILDING SECTION</div> <div>SECTION IDENTIFICATION</div> <div>SHEET WHERE SECTION IS DRAWN</div> <div></div> <div>ROOM IDENTIFICATION</div> <div>ROOM NAME ON TOP</div> <div>ROOM NUMBER IN BOX</div> <div></div> <div>DOOR NUMBER</div> <div></div> <div>WINDOW NUMBER</div> <div></div> <div>LOUVER NUMBER</div> <div></div> <div>ELEVATION</div> <div>ELEVATION IDENTIFICATION</div> <div>SHEET WHERE ELEVATION IS DRAWN</div> <div>(POC/HE FOR ELEVATION SHOWN)</div> <div></div> <div>KEY NOTE</div> <div></div> <div>ALIGN</div> <div>TOP TO BOTTOM LETTERS</div> <div>LEFT TO RIGHT NUMBERS</div> <div></div> <div>WALL TYPE</div> <div></div> <div>DEMOLITION NOTE</div> <div></div> <div>TOILET ACCESSORIES NOTE</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <div>OWNER</div> <div>PACIFIC GROVE UNIFIED SCHOOL DISTRICT</div> <div>435 Hillcrest Avenue</div> <div>Pacific Grove, CA 93950</div> <div>PH: 831.646.6553</div> <div>CONTACT: Jon Anderson</div> <div>jonanderson@gpsusd.org</div> <div>ELECTRICAL ENGINEER</div> <div>AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.</div> <div>400 Garden Court, Suite 2100</div> <div>Monterey, CA 93940</div> <div>PH: 831.646.3330</div> <div>CONTACT: Eldridge O. Bell</div> <div>eldridge@ocemb.com</div> <div>ARCHITECT</div> <div>HGBH ARCHITECTS</div> <div>550 Hartnell Street, Suite J</div> <div>Monterey, CA 93940</div> <div>PH: 831.375.9594</div> <div>CONTACT: Matt Lightner</div> <div>mighther@hgbh.net</div> <div>CIVIL ENGINEER</div> <div>C3 ENGINEERING INC.</div> <div>126 Bonifacio Place, Suite C</div> <div>Monterey, CA 93940</div> <div>PH: 831.647.1192</div> <div>CONTACT: Frank Campo</div> <div>mail@C3engineering.net</div>                                                                                                                                                    |  | <div>APPLICATION NUMBER 01-122416 FILE NUMBER 27-H4</div> <div>THESE DRAWINGS AND SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS MARKED BY * IN THE DRAWING INDEX HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.</div> <div>THE ITEMS MARKED BY * IN DRAWING INDEX HAVE BEEN EXAMINED BY ME FOR COORDINATION WITH MY DRAWINGS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.</div> <div>Matthew R. Lightner, AIA (Architect of Record)</div> <div>SIGNATURE:  DATE: June 3, 2025</div> <div>LICENSE No.: C-39194 EXP. DATE: 02.28.2027</div> <div>THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTION 4-366, 4-341 &amp; 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317)</div> <div>PROJECT SCOPE</div> <div>DEMOLITION OF EXISTING CLASSROOM BUILDING F, INCLUDING REROUTING OF UTILITIES AND FIRE ALARM WIRING AND THE REPLACEMENT OF FIRE ALARM NOTIFICATION APPLIANCES IN BLDG E</div> <div>PROJECT DATA</div> <div>OWNER: PACIFIC GROVE UNIFIED SCHOOL DISTRICT</div> <div>APN#: 006-351-018-000</div> <div>BUILDING: F</div> <div>ZONING: N/A</div> <div>OCCUPANCY GROUP: E</div> <div>CONSTRUCTION TYPE: V-B</div> <div>ORIGINAL DSA APP# 01-4747</div> <div>OCCUPANT LOAD: N/A</div> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <div>CONTRACTOR TO PREPARE AND SUBMIT ABOVE TO ARCHITECT AND CITY OF MONTEREY FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING AND DELIVERING TO SITE. SUBMITTALS TO BE PREPARED BY QUALIFIED INDIVIDUALS AND STAMPED/SIGNED BY STATE LICENSED INDIVIDUALS QUALIFIED FOR SUBJECT WORK.</div> <div>PER CBC SEC. 107.3.4.1</div> <div>DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.</div> <div>SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.</div> <div>1. NO DEFERRED SUBMITTALS</div> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |

Drawing Title:  
TITLE SHEET

Scale:AS NOTED

Sheet:

A0.0

Revision:

Date: October 2025

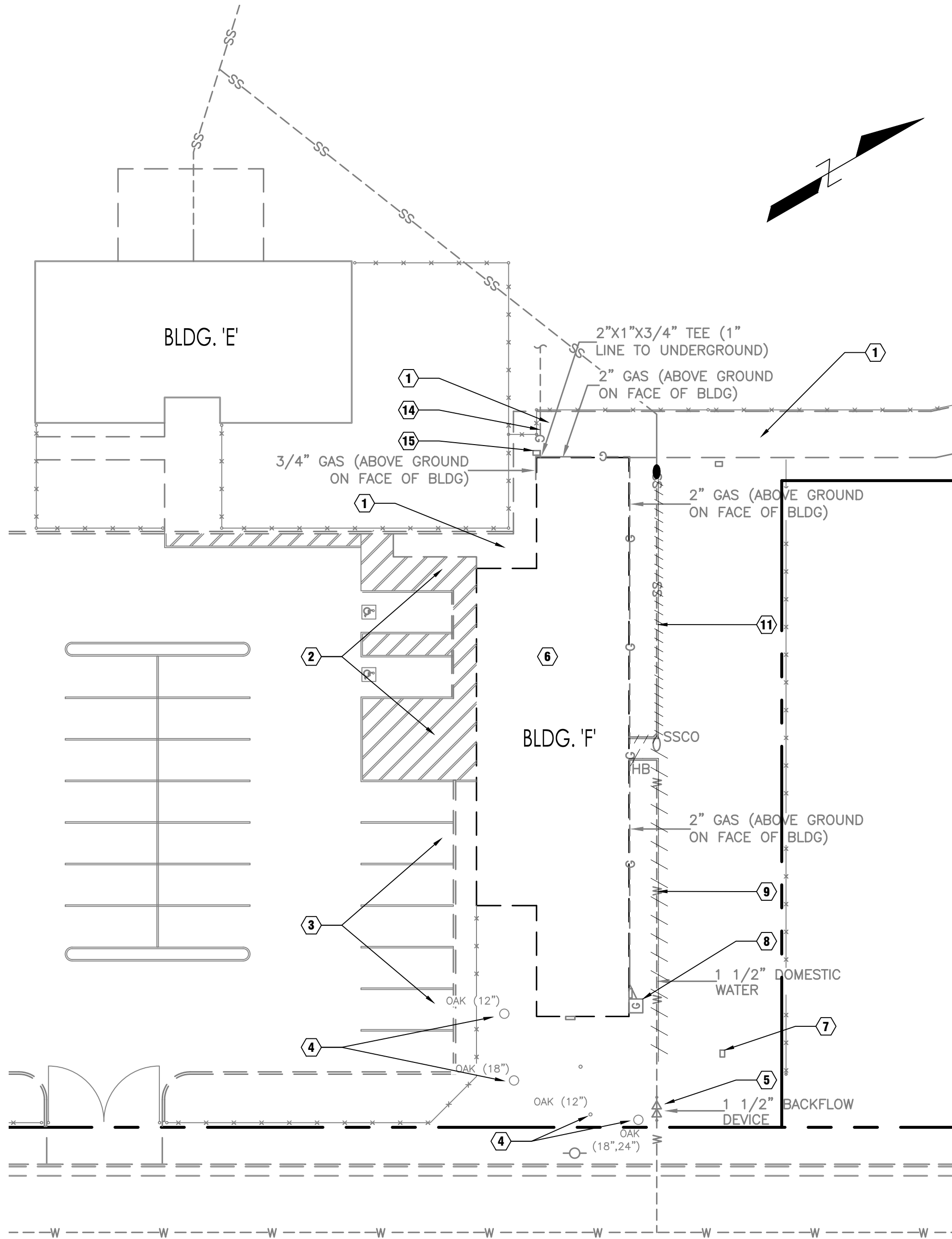
Job Number: 1720.02

# SITE DEMOLITION

1. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO DETERMINE THE EXACT EXTENT OF ALL SITE DEMOLITION ITEMS.
2. ALL ITEMS INDICATED TO BE REMOVED SHALL BE DISPOSED OF FROM THE PROJECT SITE, EXCEPT INDICATED TO BE SALVAGED.
3. ALL UNDERGROUND UTILITIES ENCOUNTERED SHALL REMAIN UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON THIS PROJECT (800-227-2600). THE CONTRACTOR SHALL REMOVE ALL U.S.A. MARKINGS AS SOON AS THEY ARE NO LONGER NEEDED, BY USING A HIGH PRESSURE WATER METHOD ONLY. THE CITY ENCOURAGES THE USE OF CHALK PAINT WHENEVER POSSIBLE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO WORK. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
6. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK SHOWN ON THESE PLANS.
7. CARE SHOULD BE TAKEN WITH EXISTING TREES TO REMAIN, GRADES WITHIN THE DRIP LINE OF THE TREE SHALL NOT BE CHANGED UNLESS OTHERWISE SPECIFIED ON THE PLANS. UNNECESSARY COMPACTION OF THE AREA WITHIN THE DRIP LINE SHALL BE AVOIDED.
8. THE CONTRACTOR SHALL KEEP A COPY OF ALL INSPECTION REPORTS ON-SITE DURING ANY DEMOLITION ACTIVITY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ALL DEMOLITION DEBRIS AND RUBBISH. THERE SHALL BE NOT ON-SITE BURNING OR BURIAL OF ANY DEMOLITION DEBRIS PERMITTED.
10. KEEP ALL PLANTING, PAVING AND CURB AREAS FREE FROM DEBRIS AND TRASH DURING THE ENTIRE DURATION OF THE CONTRACT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE OWNERS AND OR LOCAL UTILITY PROVIDERS FOR THE PROPER DISCONNECTION OF THE SUPPLY OF ELECTRIC, COMMUNICATION, AND CABLE SERVICES.
12. THE DEMOLITION CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE THE IMPROVEMENTS TO REMAIN.
13. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING AND REPLACING AT CONTRACTOR EXPENSE, ANY STRUCTURES, FENCES, WALLS, OR PLANT LIFE DAMAGED OR DESTROYED BY THE OPERATIONS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES OCCURRING BY THE OPERATIONS ON ADJACENT PROPERTIES AND ANYWHERE OUTSIDE THE CONTRACT LIMIT LINES. THE DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURELY FENCING OFF THE DEMOLITION SITE TO RESTRICT PUBLIC ACCESS TO THE AREA.
15. THE CONTRACTOR SHALL EITHER REMOVE OR FILL TO THE SATISFACTION OF THE OWNER ANY STRUCTURES TO BE ABANDONED AND LEFT IN PLACE.
16. ALL VOIDS CREATED AS A RESULT OF DEMOLITION AND REMOVAL OF EXISTING PAVEMENT SECTION, TREES, SHRUBS, UTILITY POLES, SIDEWALKS, CURBS AND GUTTERS, UTILITIES, AND OTHER IMPROVEMENTS SHALL BE BACKFILLED WITH PROPERLY COMPACTED NATIVE SOILS (THAT ARE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIAL) OR WITH APPROVED IMPORTED FILL.
17. UNDERGROUND UTILITIES WITHIN THE LIMITS OF DEMOLITION SHALL BE CAPPED AND ABANDONED OR REMOVED AS REQUIRED, UNLESS SHOWN OTHERWISE.
18. THE EXTENTS OF DEMOLITION SHOWN ARE SCHEMATIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE SURFACE IMPROVEMENTS AS REQUIRED TO INSTALL PROPOSED IMPROVEMENTS.
19. CONTRACTOR SHALL ALLOW FOR THE TRENCHING AND EXTENSION OF SITE UTILITIES AS REQUIRED TO ACCOMMODATE NEW WORK. PATCH AND REPAIR ALL SURFACES REQUIRED.
20. VERIFY IRRIGATION TO BE DEMOLISHED WITH LANDSCAPE ARCHITECTS.

## BLDG. DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS PRIOR TO PROCEEDING WITH THE WORK. IF ANY QUESTIONS ARISES AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH THE ARCHITECT BEFORE PROCEEDING.
2. CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS THAT ARE NOT SCHEDULED FOR REMOVAL FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING AND DAMAGE CAUSED TO ITEMS TO REMAIN.
3. CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIAL/EQUIPMENT AS REQUIRED TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED.
4. CONTRACTOR SHALL IMPLEMENT CONSTRUCTION DUST/DEBRIS CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION. (SEE EROSION CONTROL PLAN)
5. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED. PEDESTRIAN PATCH OF TRAVEL ADJACENT TO DEMOLITION SHALL BE KEPT BROOM CLEAN, CONTINUOUSLY.
6. DEMOLITION IS NOT NECESSARILY LIMITED WHAT IS SHOWN ON DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. CARE SHALL BE TAKEN BY CONTRACTOR TO MINIMIZE DISRUPTION OF EXISTING OPERATIONS ADJACENT TO DEMOLITION THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTORS SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH BUILDING OWNER PRIOR TO WORK.
8. CONTRACTOR TO COORDINATE OWNER'S REPRESENTATIVE ON CONSTRUCTION SCHEDULE AND HOURS OF CONSTRUCTION.
9. REFER TO MECHANICAL, PLUMING AND ELECTRICAL DRAWING FOR ASSOCIATED SCOPE OF WORK REQUIREMENTS.
10. CONTRACTOR SHALL ALLOW FOR SAW CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED FOR DEMOLITION OF EXISTING PLUMBING, CAPPING OF PLUMBING AND/OR RECONFIGURATION AND EXTENSION OF PLUMBING AS REQUIRED.
  - A. FOR ALL EXISTING PLUMBING SYSTEM PIPING IN EXISTING WALLS TO REMAIN FED FROM BELOW SLAB, PIPING SHALL BE CAPPED AT LOWEST EXISTING JOINT ABOVE THE SLAB. ALL REMAINING ABANDONED PIPING TO BE REMOVED AND LEGALLY DISPOSED OF.
  - B. FOR ALL EXISTING PLUMBING SYSTEM PIPING IN EXISTING WALLS TO REMAIN SUPPLIED FROM ABOVE CEILING, PIPING SHALL BE CAPPED ABOVE CEILING. ALL REMAINING ABANDONED PIPING TO BE REMOVED AND LEGALLY DISPOSED OF.
  - C. FOR ALL EXISTING PLUMBING SYSTEM PIPING AND DRAIN LINES IN SLAB AREAS (NOT IN WALLS) TO REMAIN, CONTRACTOR SHALL REMOVE PORTION OF EXISTING CONCRETE SURROUNDING THE PIPING SUFFICIENT FOR CAPPING. CAP PIPING AT A POINT TO ALLOW FOR MINIMUM OF 1" CONCRETE COVERAGE ABOVE CAP TO HEIGHT OF FINISHED SLAB. REPLACE SURROUNDING CONCRETE HEIGHT OF FINISHED SLAB.
11. CONTRACTOR TO CLEAN AND PROPERLY DISPOSE OF ALL ABANDONED EQUIPMENT AND TRASH DEBRIS. CONTRACTOR SHALL VERIFY ALL ITEMS FOR DISPOSAL WITH BUILDING OWNER PRIOR TO STARTING WORK.



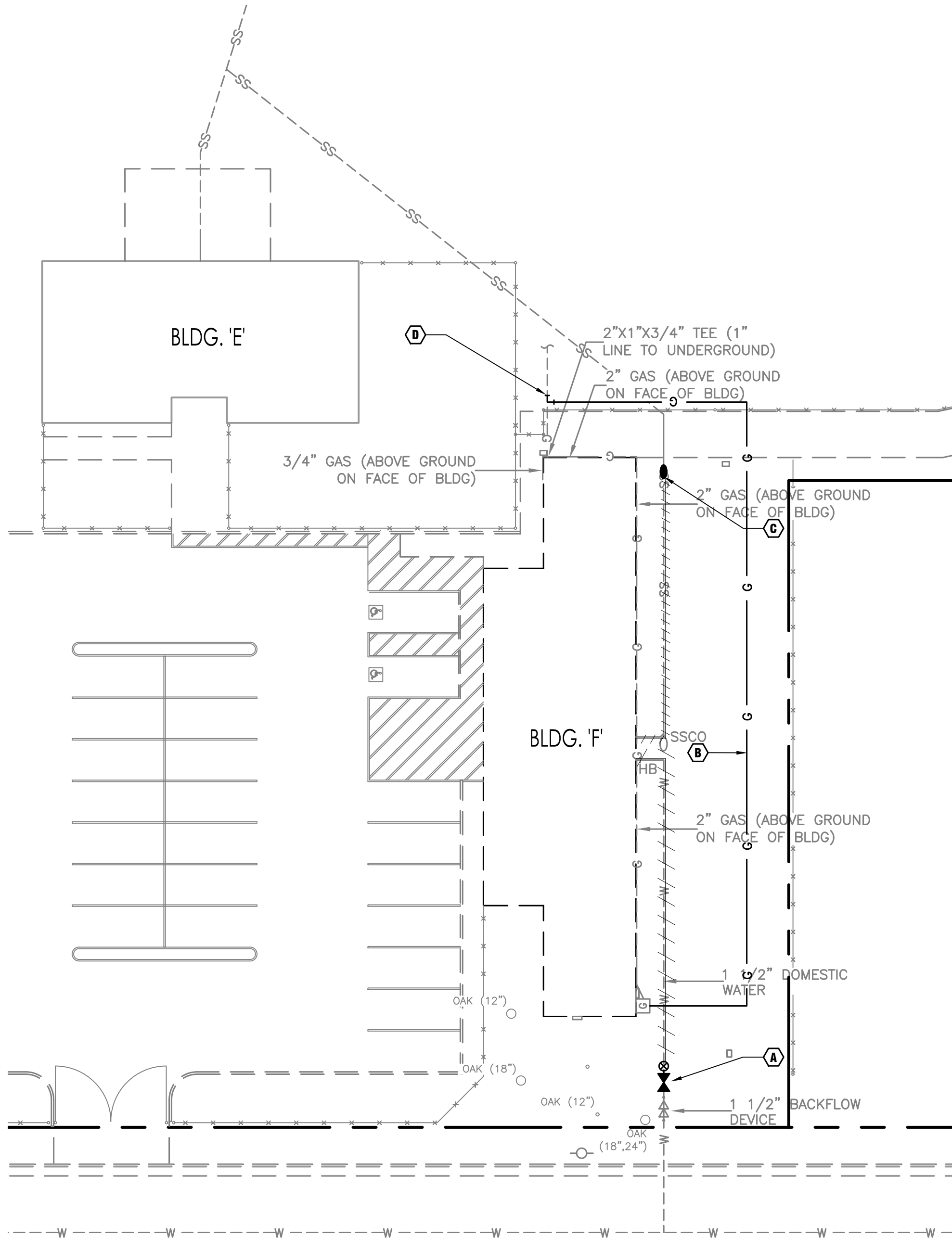
## DEMO SITE PLAN

1" = 20'

## DEMO KEY NOTES

- 1 EX PCC SIDEWALK TO REMAIN
- 2 EX ACCESSIBLE STALLS AND SIGNAGE TO REMAIN
- 3 EXISTING PARKING STALLS TO REMAIN
- 4 EXISTING TREE TO REMAIN (SEE A/C2 FOR PROTECTION)
- 5 EXISTING BACKFLOW ASSEMBLY TO REMAIN
- 6 SEE ARCHITECTURAL PLANS FOR BUILDING DEMO
- 7 UTILITY BOX TO REMAIN
- 8 GAS METER TO REMAIN (FUTURE RELOCATION BY PG&E)
- 9 REMOVE WATER LINE TO BUILDING (SEE PLANS BY OTHERS FOR DEMO IN BUILDING)
- 10 NOT USED
- 11 REMOVE EX SEWER LINE TO BUILDING (SEE PLANS BY OTHERS FOR DEMO IN BUILDING)
- 12 NOT USED
- 13 NOT USED
- 14 REMOVE GAS LINE TO BUILDING (SEE PLANS BY OTHERS FOR DEMO IN BUILDING)
- 15 SEE ELECTRICAL DEMO PLANS FOR UTILITY BOX

---/G#S/--- UNDERGROUND UTILITIES TO BE REMOVED



## SITE PLAN

1" = 20'

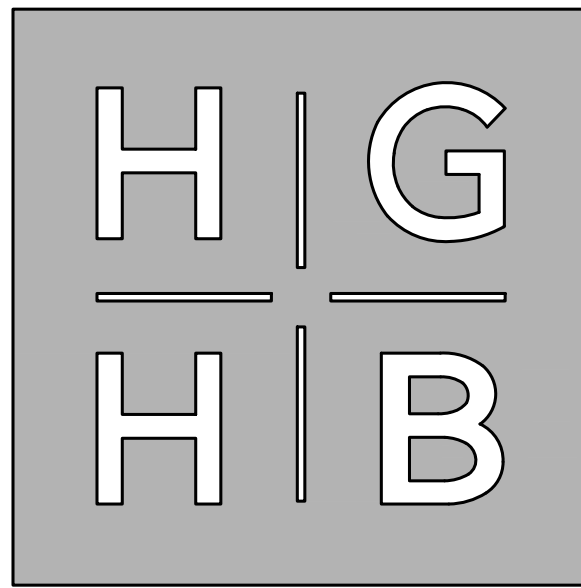
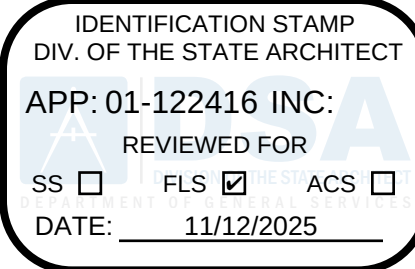
## DEMO KEY NOTES

- A INSTALL SHUT OFF VALVE IN BOX (B/C2) AND HOSE BIB (C/C2)
- B INSTALL NEW GAS LINE
- C INSTALL TWO-WAY CLEANOUT AND 4" STUB (D/C2)
- D CONNECT TO EXISTING GAS LINE (DEPTH LOCATION AND SIZE UNKNOWN, FIELD VERIFY)

---/G#S/--- UNDERGROUND UTILITIES TO BE REMOVED



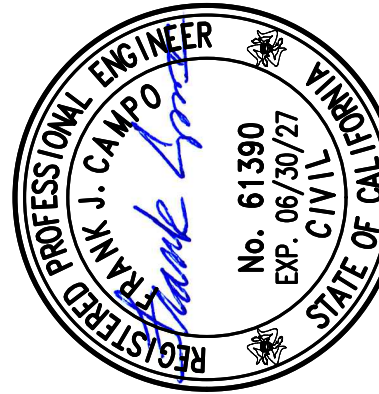
Scale 1" = 20'



Architecture, Planning, Urban Design  
550 Hartnell Street, Suite J  
Monterey, California 93940  
Tel 831.375.9594

## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



**C3ENGINEERING**  
INCORPORATED  
Development Stormwater  
Management  
126 Bonifacio Place, Suite C  
Monterey, CA 93940  
Ph: (831) 647-1192 Fax (831)  
647-1194  
mail@C3Engineering.net

Drawing Title:  
SITE DEMOLITION PLAN

DESIGN BY: FJC

DRAWN BY: ECH

Scale: AS NOTED

Sheet:

C1

Revision:

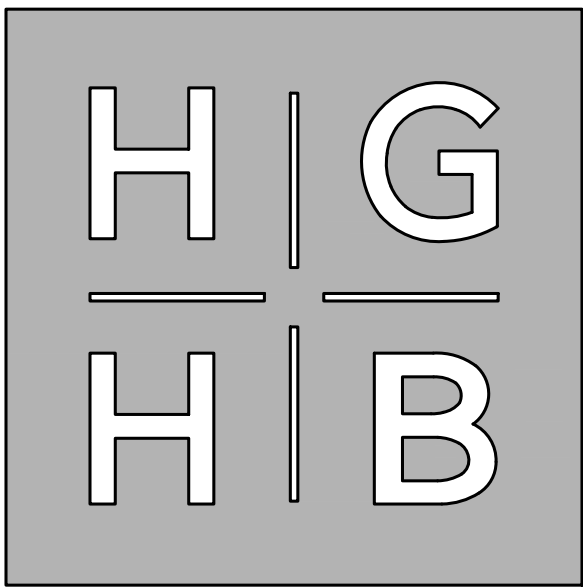
DSA COMMENTS (7-17-25)

08-28-25

Date: March, 2025

Job Number: 1720.02

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-122416 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☐  
DATE: 11/12/2025



Architecture, Planning, Urban Design  
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BUILDING 'F'  
DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



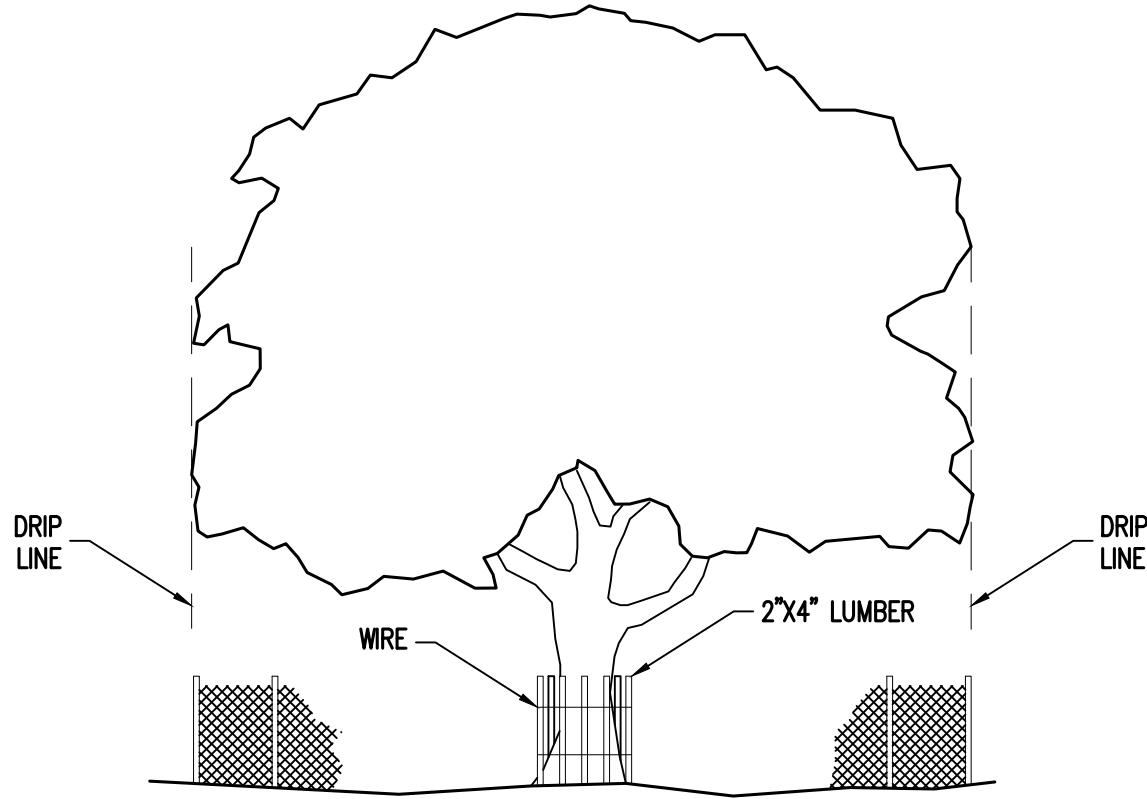
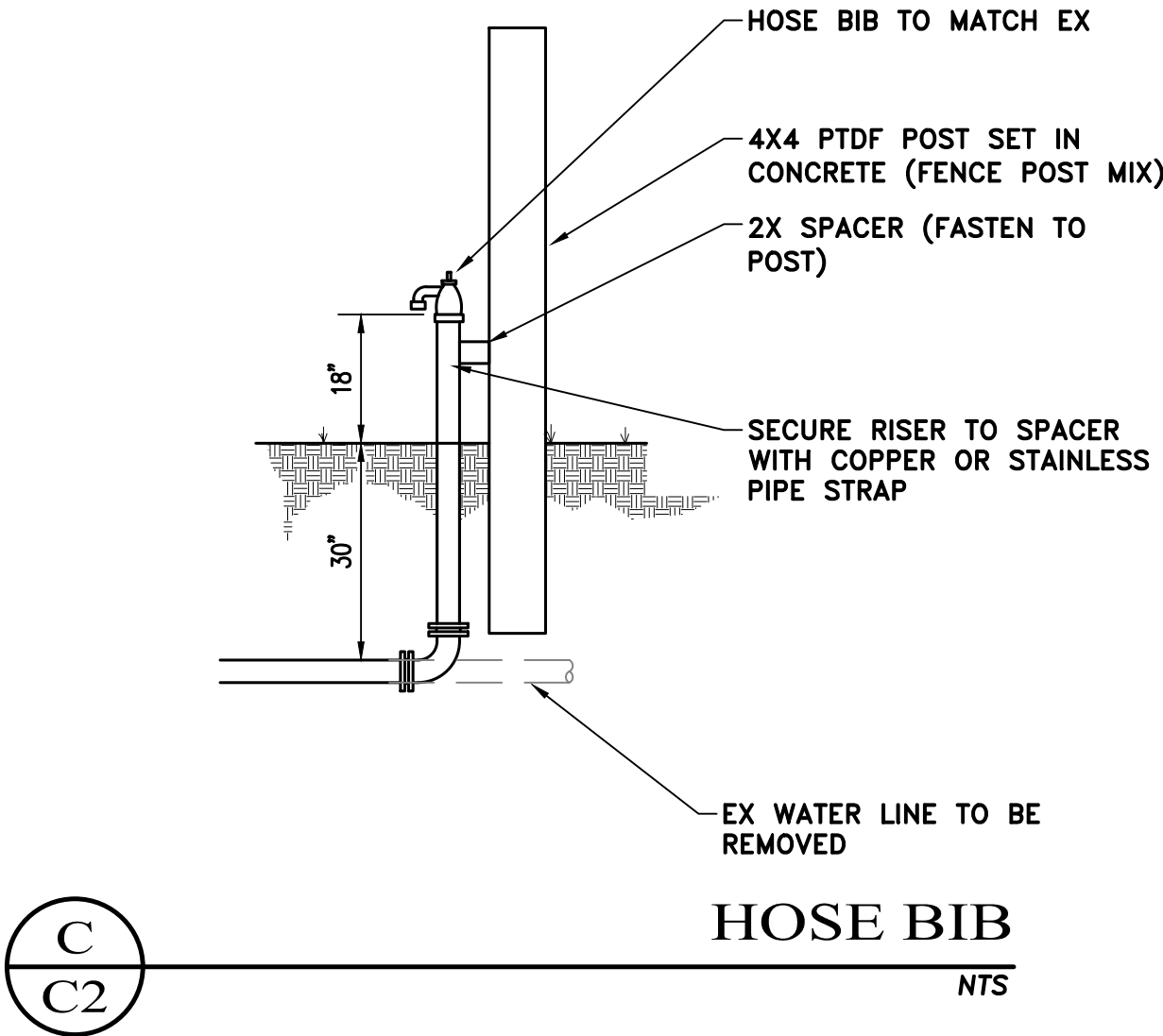
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126 Bonifacio Place, Suite C  
Monterey, CA 93940  
Ph: (831) 647-1192 Fax (831)  
647-1194  
mail@C3Engineering.net

Drawing Title:  
CONSTRUCTION DETAILS

DESIGN BY: FJC  
DRAWN BY: ECH  
Scale: AS NOTED Sheet:

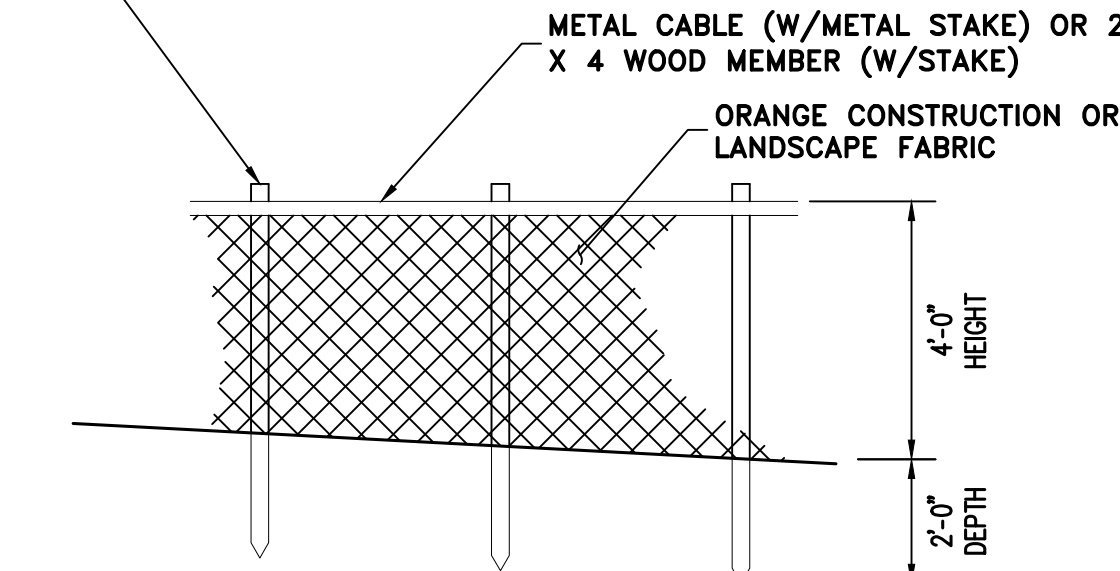
C2

Revision:



NOTE:  
IN SITUATIONS WHERE PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION AND THE TREE MAY BE IN DANGER OF BEING DAMAGED BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE WITH 2"x4" LUMBER SECURED WITH WIRE.

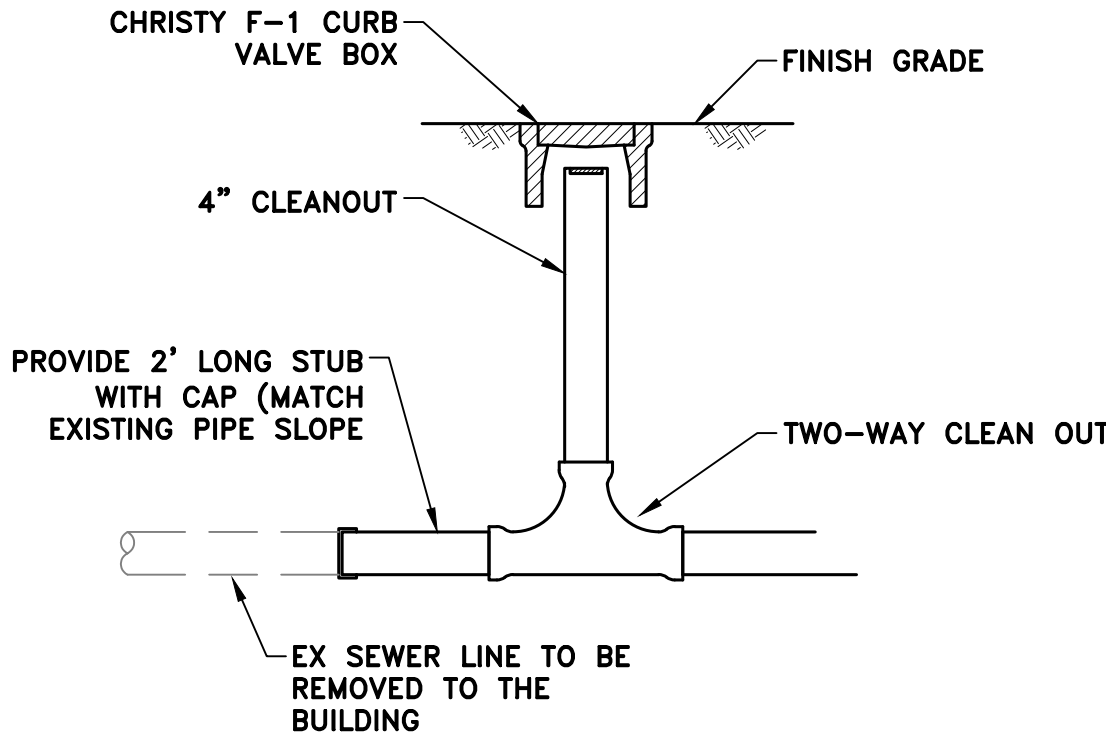
METAL STAKES WITH ORANGE CONSTRUCTION FENCING: THREAD A HEAVY METAL CABLE THROUGH THE TOP STAKE HOLES. WEAVE ORANGE FABRIC EVERY OTHER OPENING ALONG THE VERTICAL STAKE AND WIRE THE FABRIC 12" ON CENTER ALONG THE HORIZONTAL CABLE. OR WOOD STAKES WITH ORANGE FENCING OR LANDSCAPE FABRIC: STAPLE EITHER FABRIC, EVERY 6" VERTICAL TO 2" DIAMETER LODGE POLE PINE STAKES AND HORIZONTALLY TO A 2X4 TOP BAR.



BARK PROTECTION TYP.

A  
C2

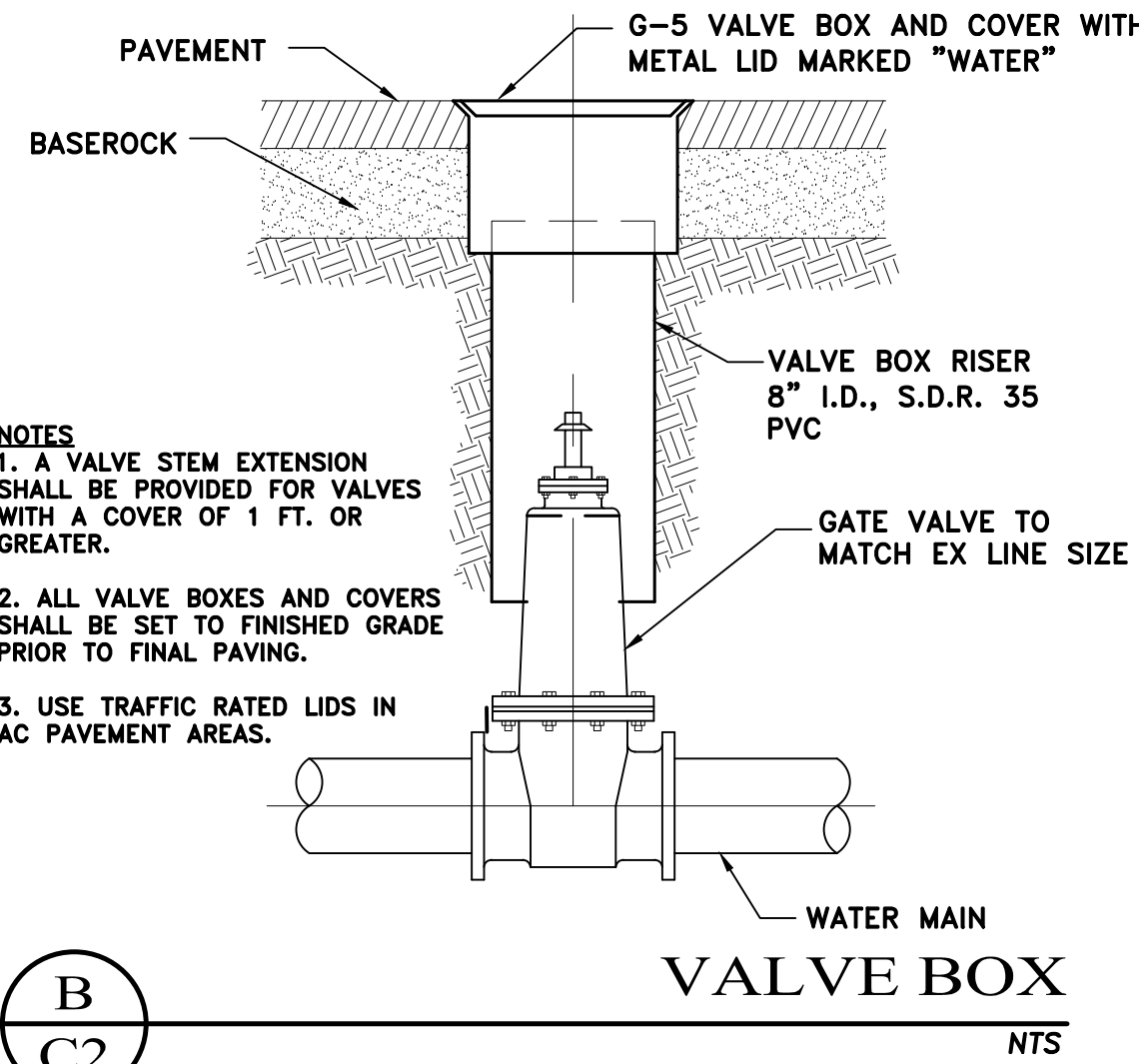
NTS

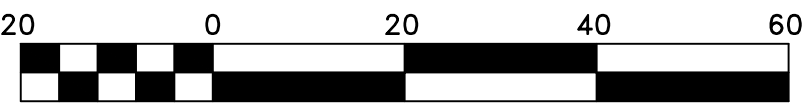


TWO-WAY CLEAN-OUT

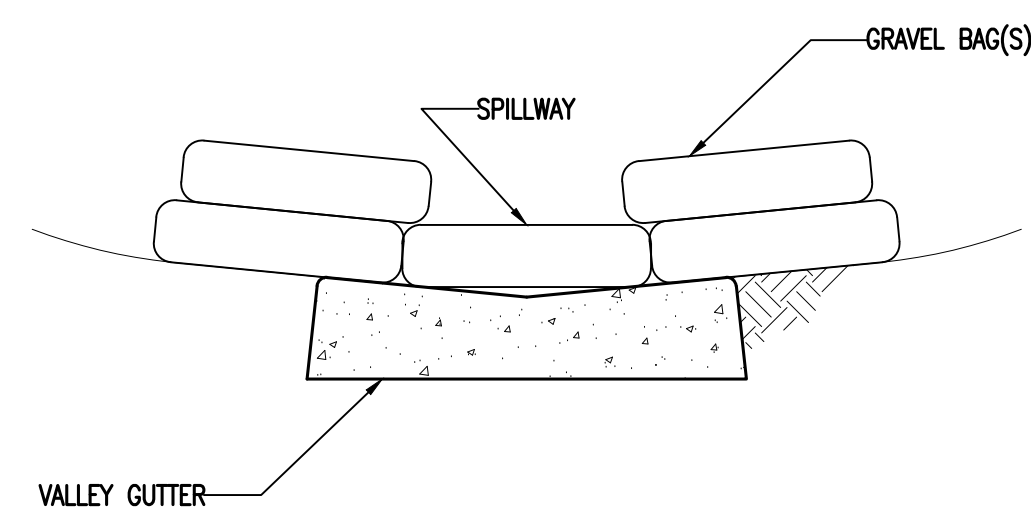
D  
C2

NTS

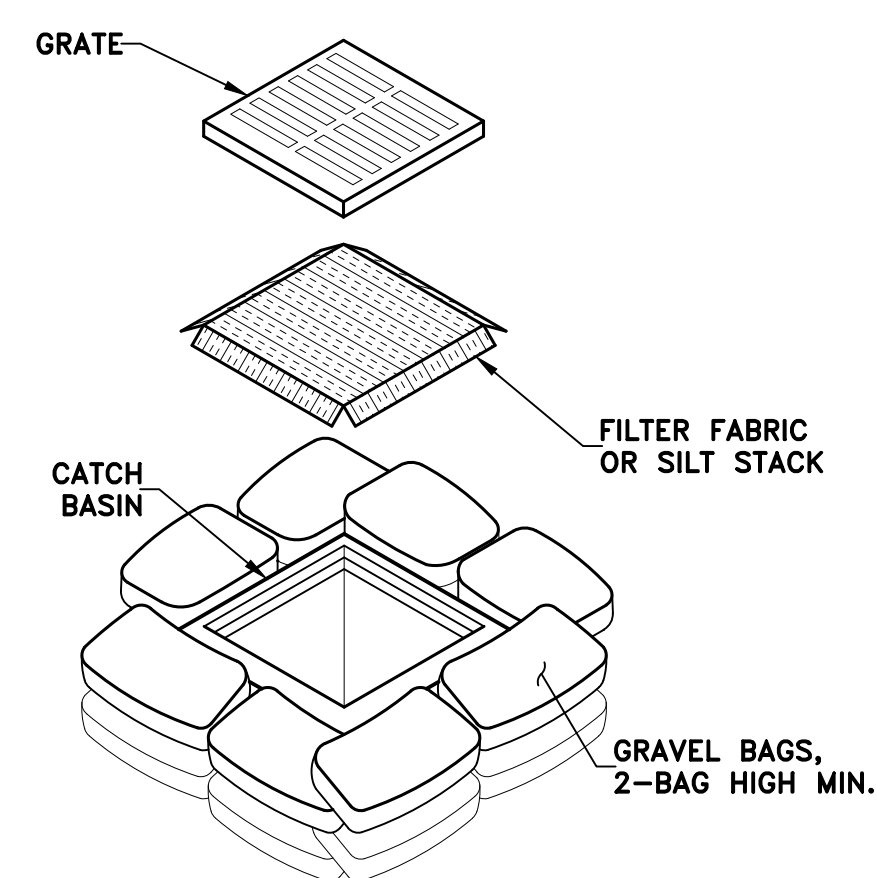



$$1'' = 20'$$

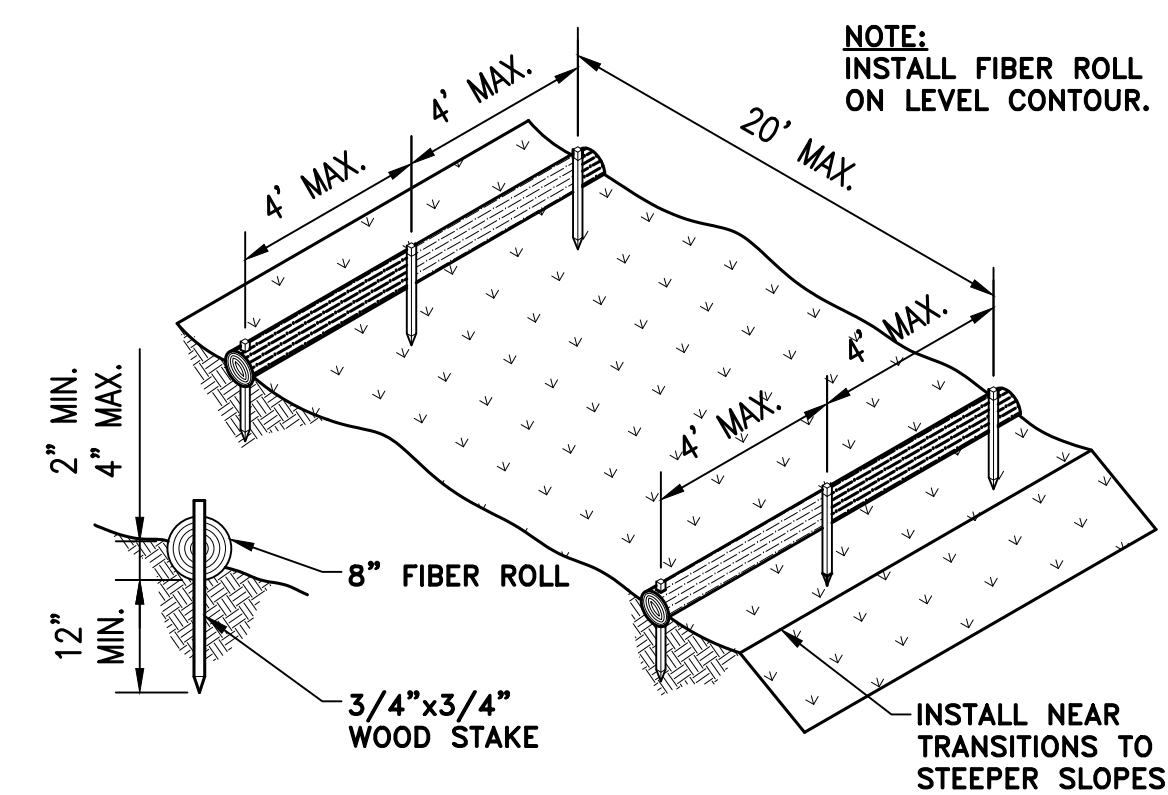
Job Number: 1720.02



# GRAVEL BAG CHECK DAM

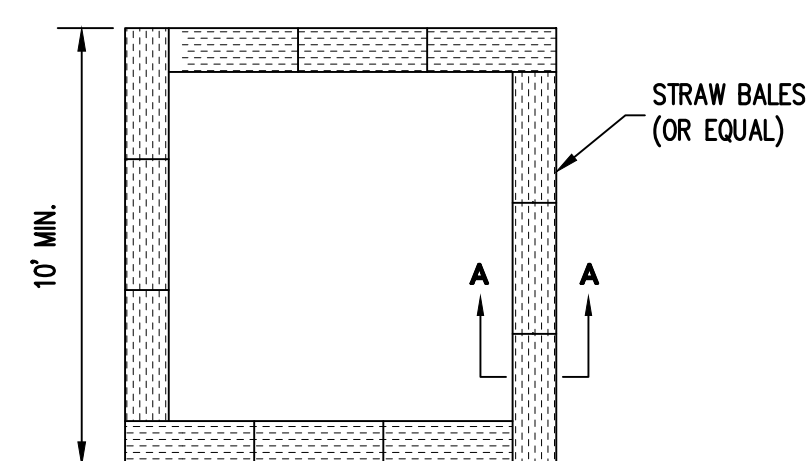


**D** DROP INLET PROTECTION  
**C4** NTS

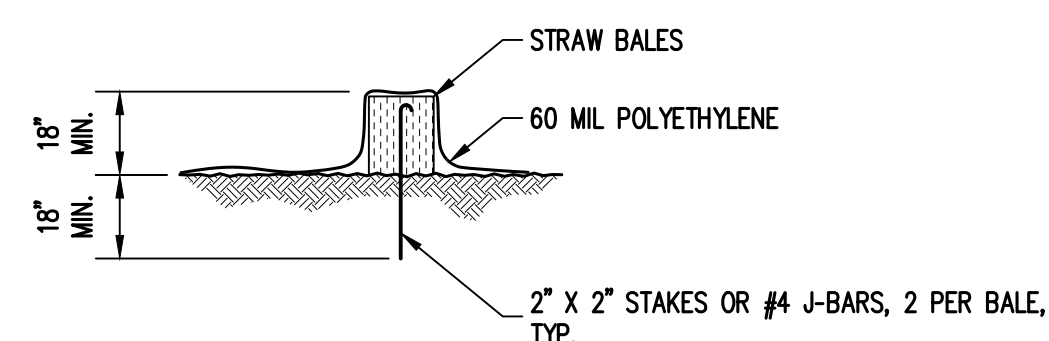


FIBER ROLL

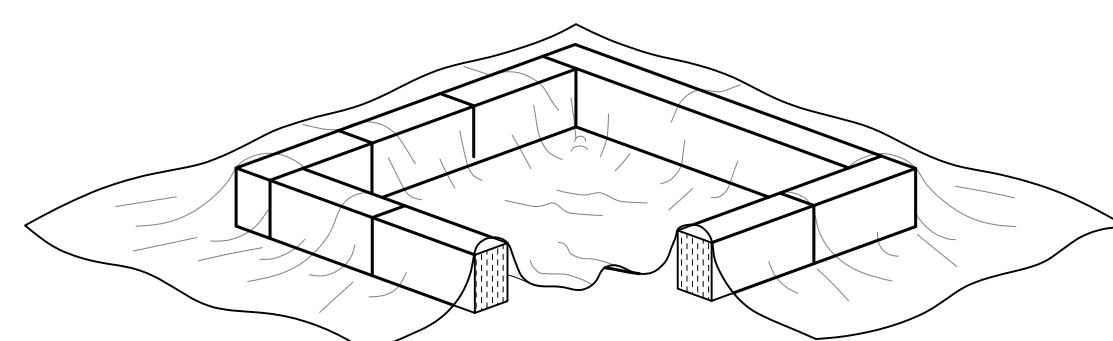
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BALE  
CONFIGURATION



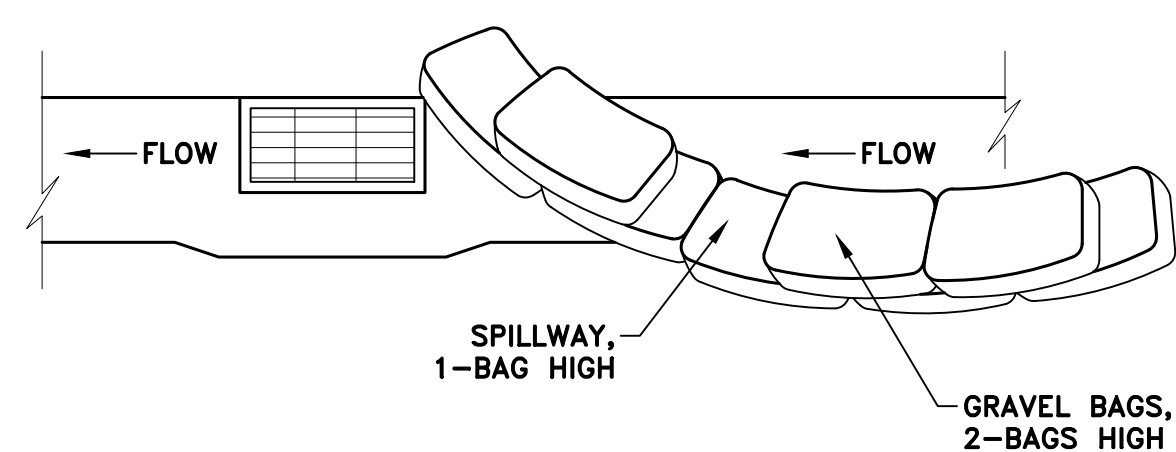
**SECTION A-A**



THIS SECTION REMOVED FOR GRAPHICAL REPRESENTATION ONLY. STRAW BALE PERIMETER SHALL BE CONTINUOUS.

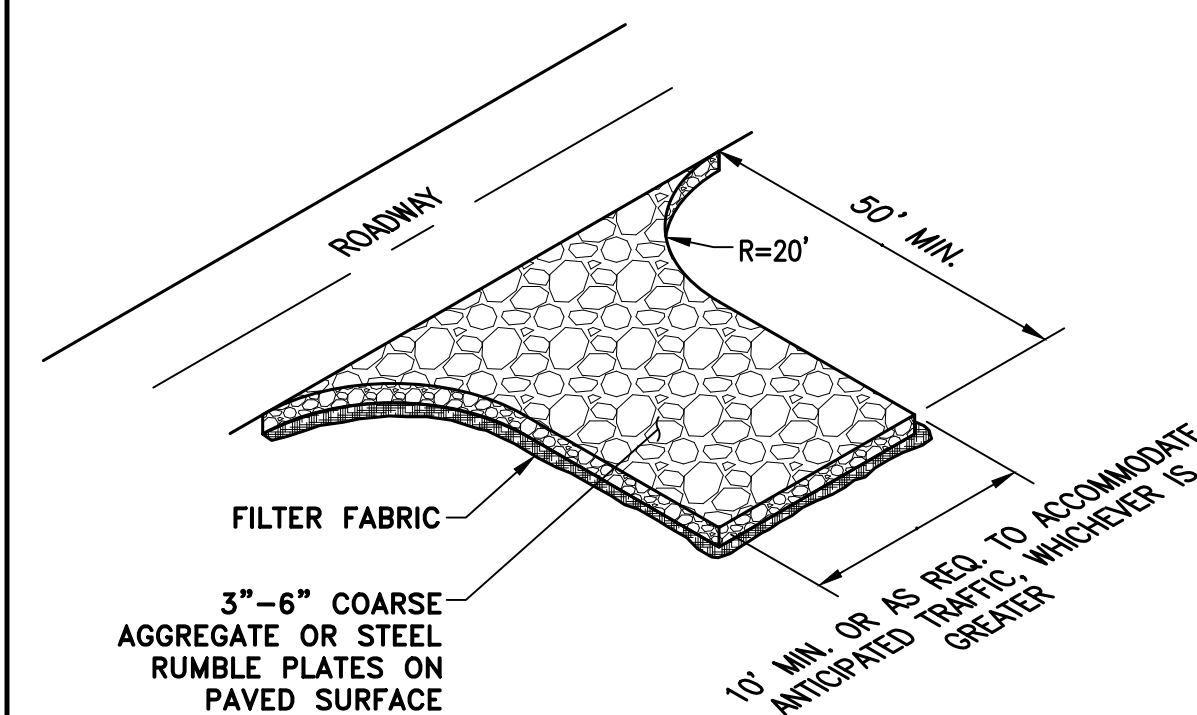
- NOTES:**  
1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT  
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB  
AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR  
WATERCOURSES

# H C4 CONCRETE WASHOUT NTS

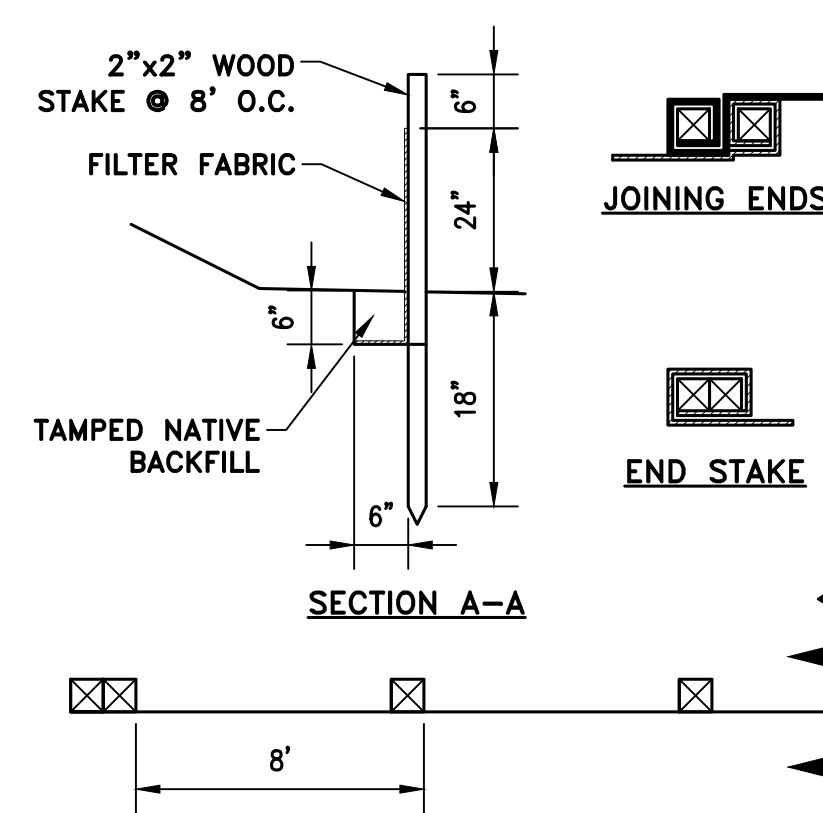


- NOTES:
1. INTENDED FOR SHORT-TERM USE.
  2. USE TO INHIBIT NON-STORM WATER FLOW.
  3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
  4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETE.
  5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

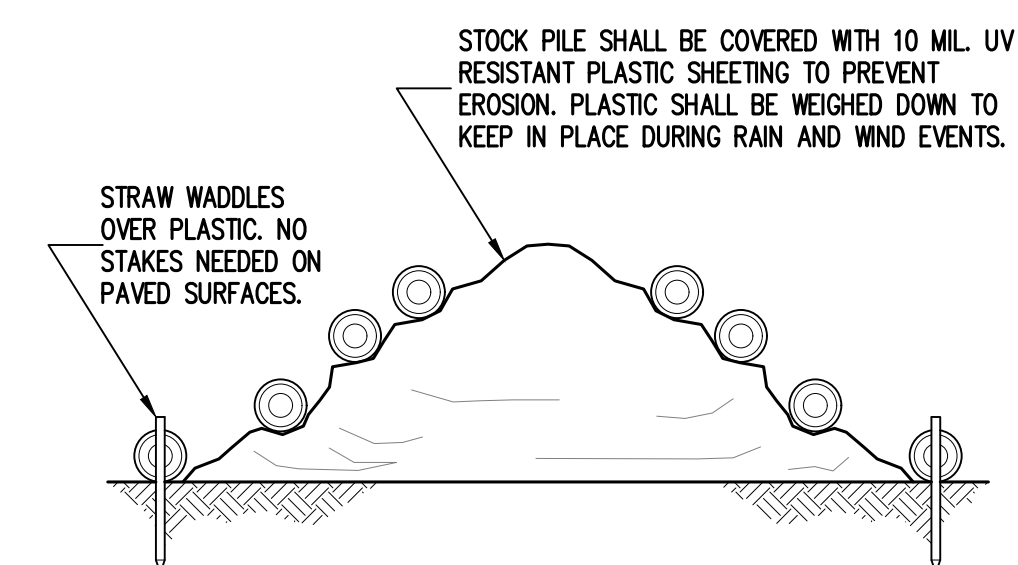
E CURB INLET PROTECTION  
C4 NTS



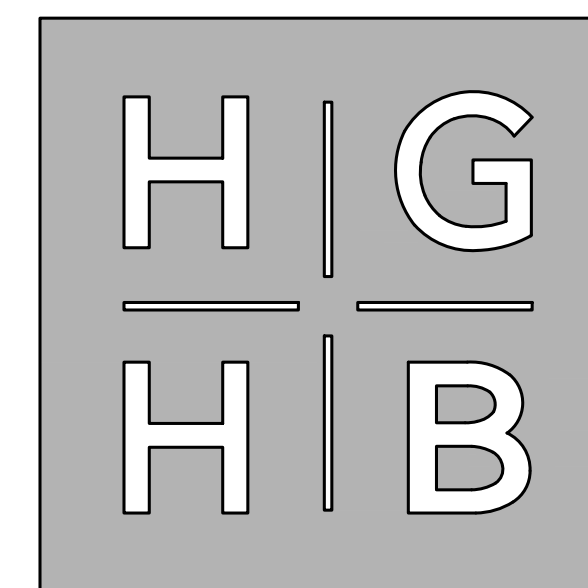

**STABILIZE ENTRANCE**



**SILT FENCE**



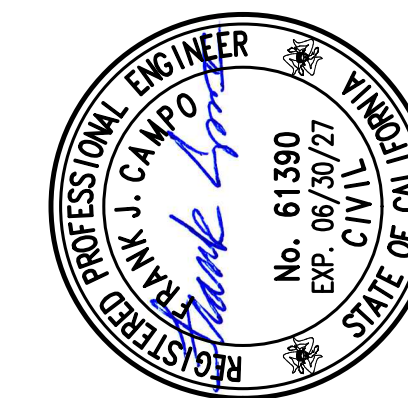
STOCK PILE COVERING



Architecture, Planning, Urban Design  
550 Hartnell Street, Suite J  
Monterey, California 93940  
Tel 831.375.9594

## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



Drawing Title:

## EROSION AND SEDIMENT CONTROL PLAN DETAILS

DESIGN BY: FJC

DRAWN BY: ECH

Scale: **AS NOTED**

Sheet:

## C4

Revision:

Date: March, 2025

Job Number: 1720.02

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
15. 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.
16. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
17. 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 EXISTING CONDUIT WHERE POSSIBLE.
18. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
20. 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.
21. CONTRACTOR SHALL COORDINATE WITH PG&E, AT&T & PAY ALL CHARGES FOR TEMPORARY CONSTRUCTION POWER & TELEPHONE.
22. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND OBTAIN UTILITY COMPANY CONSTRUCTION DOCUMENTS. UTILITY COMPANY CHARGES SHALL BE PAID BY OWNER.

ELECTRICAL SYMBOLS & ABBREVIATIONS

| SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS. |                                                                  |  |                                                                                |  |                                                                                                                                                                                                                                                                                 |                      |                                                                 |      |                                                              |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------|------|--------------------------------------------------------------|
|                                                                                                      | FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE                      |  | SECURITY DOOR CONTACTS                                                         |  | PANELBOARD - FLUSH MOUNTED                                                                                                                                                                                                                                                      |                      | DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL |      | DETAIL NUMBER<br>DETAIL OR SECTION REFERENCE<br>SHEET NUMBER |
|                                                                                                      | EMERGENCY OR NIGHT LIGHT                                         |  | SECURITY MOTION DETECTOR                                                       |  | EQUIPMENT PANEL - FLUSH MOUNTED                                                                                                                                                                                                                                                 |                      | FEEDER DESIGNATION:<br>SEE ASSOCIATED NOTE ON SAME DETAIL       |      | INDICATES QUANTITY OF TELEPHONE OUTLETS                      |
|                                                                                                      | STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE                |  | CCTV CAMERA                                                                    |  | PANELBOARD - SURFACE MOUNTED<br>EQUIPMENT PANEL - SURFACE MOUNTED                                                                                                                                                                                                               |                      |                                                                 |      | INDICATES QUANTITY OF DATA OUTLETS                           |
|                                                                                                      | LUMINAIRE - RECESSED - SEE SCHEDULE                              |  | SECURITY SYSTEM KEYPAD                                                         |  | METER W/ CURRENT TRANSFORMER                                                                                                                                                                                                                                                    | <b>ABBREVIATIONS</b> |                                                                 |      |                                                              |
|                                                                                                      | RECESSED WALL WASHER                                             |  | DOOR BELL PUSHBUTTON                                                           |  | JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES                                                                                                                                                                                                       | A                    | AMPERE                                                          | GFCI | GROUND FAULT                                                 |
|                                                                                                      | LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE                       |  | DOOR CHIME WITH LED                                                            |  | SURGE PROTECTIVE DEVICE                                                                                                                                                                                                                                                         | AFF                  | ABOVE FINISHED FLOOR                                            | GFI  | INTERRUPTING                                                 |
|                                                                                                      | LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE                  |  | RECEPTACLE - DUPLEX *                                                          |  | MOTOR CONNECTION                                                                                                                                                                                                                                                                | ALUM/AL              | ALUMINUM                                                        | GRS  | GROUND                                                       |
|                                                                                                      | LUMINAIRE - WALL MOUNTED SEE SCHEDULE                            |  | DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT                  |  | NON-FUSED DISCONNECT SWITCH                                                                                                                                                                                                                                                     | ARCH                 | ARCHITECT                                                       | HT   | HEIGHT                                                       |
|                                                                                                      | BOLLARD OR PATH LIGHT - SEE SCHEDULE                             |  | GFCI CONVENIENCE RECEPTACLE - DUPLEX *                                         |  | FUSED DISCONNECT SWITCH: FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA                                                                                                                                                                                 | AWG                  | AMERICAN WIRE GAUGE                                             | IC   | INTERCOM                                                     |
|                                                                                                      | EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE      |  | GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT |  | COMBINATION STARTER/FUSED DISCONNECT SWITCH: FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA                                                                                                                                                     | C                    | CONDUIT                                                         | IDF  | INTERMEDIATE                                                 |
|                                                                                                      | TRACK LIGHTING - SEE SCHEDULE                                    |  | RECEPTACLE - DOUBLE DUPLEX *                                                   |  | MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                             | CATV                 | CABLE TV                                                        | JB   | JUNCTION BOX                                                 |
|                                                                                                      | EMERGENCY LIGHT                                                  |  | HALF SWITCHED DUPLEX RECEPTACLE *                                              |  | CIRCUIT BREAKER                                                                                                                                                                                                                                                                 | CTV                  | CLOSED CIRCUIT TV                                               | KV   | KILOVOLT                                                     |
|                                                                                                      | DIGITAL DUAL TECHNOLOGY OCC. SENSOR                              |  | DUPLEX RECEPTACLE - CEILING MOUNTED                                            |  | GROUND ROD WITH GROUNDWELL BOX                                                                                                                                                                                                                                                  | CL                   | CENTER LINE                                                     | KVA  | KILOVOLT AMPERES                                             |
|                                                                                                      | LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED                 |  | SINGLE RECEPTACLE *                                                            |  | GROUND ELECTRODE                                                                                                                                                                                                                                                                | CLG                  | CEILING                                                         | KW   | KILOWATT                                                     |
|                                                                                                      | DIMMER ROOM CONTROLLER                                           |  | LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *                           |  | NORMALLY OPEN CONTACT                                                                                                                                                                                                                                                           | C.O.                 | CONDUIT ONLY                                                    | LCP  | LIGHTING CONTROL                                             |
|                                                                                                      | PLUG LOAD CONTROLLER                                             |  | LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *                          |  | NORMALLY CLOSED CONTACT                                                                                                                                                                                                                                                         | CTR                  | CENTER                                                          | LTG  | LIGHTING                                                     |
|                                                                                                      | ROOM LIGHTING CONTROLLER                                         |  | FLOOR MOUNTED DUPLEX RECEPTACLE                                                |  | TRANSFORMER - SEE SINGLE LINE FOR SIZE                                                                                                                                                                                                                                          | D                    | DIMMER                                                          | LV   | LOW VOLTAGE                                                  |
|                                                                                                      | LIGHTING CONTROL PANEL                                           |  | FLOOR MOUNTED BOX                                                              |  | PULLBOX                                                                                                                                                                                                                                                                         | DIM                  | DIMENSION                                                       | KCM  | CIRCULAR MILS                                                |
|                                                                                                      | DIGITAL DAYLIGHT SENSOR                                          |  | POWER OUTLET - SEE PLANS FOR NEMA TYPE *                                       |  | ERMS                                                                                                                                                                                                                                                                            | DIST                 | DISTRIBUTION                                                    | M.B. | MAIN CIRCUIT BREAKER                                         |
|                                                                                                      | SINGLE POLE SWITCH **                                            |  | POWER POLE                                                                     |  | FLEX CONDUIT WITH CONNECTION                                                                                                                                                                                                                                                    | (E)                  | EXISTING                                                        | MCA  | MINIMUM                                                      |
|                                                                                                      | SINGLE POLE SWITCH, **<br>a = CIRCUIT CONTROLLED                 |  | WALL TELEPHONE OUTLET **                                                       |  | CONDUIT - UP                                                                                                                                                                                                                                                                    | EC                   | ELECTRICAL CONTRACTOR                                           | MDF  | MAIN DISTRIBUTION FRAME                                      |
|                                                                                                      | THREE WAY SWITCH**                                               |  | VOICE/DATA WALL OUTLET *                                                       |  | CONDUIT - DOWN                                                                                                                                                                                                                                                                  | EM                   | EVENING LIGHT                                                   | MECH | MECHANICAL                                                   |
|                                                                                                      | FOUR WAY SWITCH**                                                |  | VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT                  |  | CONDUIT EMERGENCY SYSTEM                                                                                                                                                                                                                                                        | EMT                  | EMERGENCY                                                       | MTG  | MOUNTING                                                     |
|                                                                                                      | MANUAL MOTOR STARTER                                             |  | SURFACE MOUNTED VOICE/DATA WALL OUTLET *                                       |  | SURFACE METAL OR NON-METALLIC RACEWAY                                                                                                                                                                                                                                           | EV                   | ELECTRICAL VEHICLE                                              | MOCP | MAXIMUM OVER CURRENT PROTECTION                              |
|                                                                                                      | KEY OPERATED SWITCH**                                            |  | SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT  |  | CONDUIT - CONCEALED IN WALLS OR CEILING                                                                                                                                                                                                                                         | FA                   | FIRE ALARM                                                      | (N)  | NEW                                                          |
|                                                                                                      | LIGHTING DIMMER**                                                |  | WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED                                  |  | CONDUIT - EXISTING                                                                                                                                                                                                                                                              | FACP                 | FIRE ALARM CONTROL PANEL                                        | NIC  | NOT IN CONTRACT                                              |
|                                                                                                      | DIGITAL ON/OFF SWITCH **                                         |  | WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT               |  | CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.                                                                                                                                                                                                                                   | FC                   | FOOT CANDLE                                                     | NIEC | NOT IN ELECTRICAL CONTRACT                                   |
|                                                                                                      | DIGITAL MULTI SCENE LIGHTING SWITCH **                           |  | VOICE/DATA OUTLET - FLOOR MOUNTED                                              |  | CAPPED OR STUB-OUT CONDUIT                                                                                                                                                                                                                                                      | FIN                  | FINISH                                                          | (NL) | NIGHT LIGHT                                                  |
|                                                                                                      | DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR **                      |  | TV OUTLET *                                                                    |  | CONDUIT CONTINUATION                                                                                                                                                                                                                                                            | FL                   | FLOOR                                                           | NO   | NUMBER                                                       |
|                                                                                                      | WALL OCCUPANCY SENSOR **                                         |  | VOICE/DATA OUTLET - CEILING MOUNTED                                            |  | CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG. | FLA                  | FULL LOAD AMPS                                                  | NOM  | NOMINAL                                                      |
|                                                                                                      | DOUBLE SWITCHED WALL OCCUPANCY SENSOR **                         |  | INTERIOR SPEAKERS CEILING MOUNTED                                              |  | SHEET NOTE REFERENCE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET                                                                                                                                                                                                                  | (F)                  | FLUORESCENT                                                     |      |                                                              |
|                                                                                                      | DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **          |  | INTERIOR SPEAKERS WALL MOUNTED                                                 |  | SCHEDULE SYMBOL: SEE ASSOCIATED NOTE ON SAME SHEET                                                                                                                                                                                                                              | GC                   | GENERAL CONTRACTOR                                              |      |                                                              |
|                                                                                                      | 2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ** |  | CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION                             |  |                                                                                                                                                                                                                                                                                 |                      |                                                                 |      |                                                              |

EQUIPMENT ANCHORAGE

| ME/P COMPONENT ANCHORAGE NOTES:                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 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 RECEPTACLES HAVING A FLEXIBLE CABLE.                                                                  |  |
| 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.                                                                                                     |  |
| THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.     |  |
| A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.                                                                                                                                                                                          |  |
| B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.                                                                                                                                                                                     |  |
| THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. |  |
| MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT                                                                                                                                                                                                                                                                                  |  |
| PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.                                                                                        |  |
| THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.                                                                  |  |
| MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):                                                                                                                                                                                                                                                          |  |
| MP  MD  PP  E  - OPTION 1: PROJECT-SPECIFIC DESIGN.                                                                                                                                                                                                                                                                                                                |  |
| MP  MD  PP  E  - OPTION 2: DESIGN BASED ON OSHPOD OPM, WITHIN PROJECT SUBMITTAL.                                                                                                                                                                                                                                                                                   |  |
| MP  MD  PP  E  - OPTION 3: DESIGN BASED ON OSHPOD OPM, DEFERRED SUBMITTAL.                                                                                                                                                                                                                                                                                         |  |

APPLICABLE CODES & STANDARDS

| CODES:     |                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.         | 2022 CALIFORNIA ADMINISTRATIVE CODE (C.A.C., PART 1, TITLE 24, C.C.R.                                                                            |
| 2.         | 2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS. |
| 3.         | 2022 CALIFORNIA RESIDENTIAL CODE C.C.R., TITLE 24, PART 2.5 BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE WITH CALIFORNIA AMENDMENTS.         |
| 4.         | 2022 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.      |
| 5.         | 2022 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.       |
| 6.         | 2022 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.           |
| 7.         | 2022 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.                                                                                            |
| 8.         | 2022 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.             |
| 9.         | 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.                                                                         |
| 10.        | 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.                                                                             |
| 11.        | TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.                                                                                  |
| 12.        | NATIONAL FIRE ALARM CODE (NFPA 72) 2022.                                                                                                         |
| STANDARDS: |                                                                                                                                                  |
| 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)                                                                               |

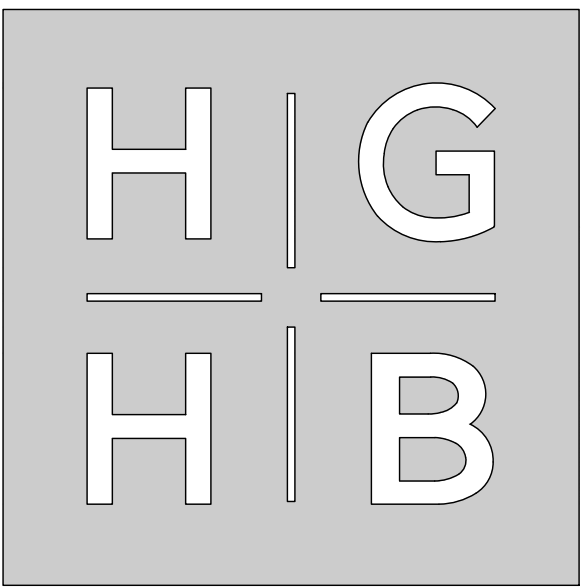
SHEET INDEX

|       |                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------|
| E001  | SYMBOLS, ABBREVIATIONS, GENERAL CONSTRUCTION NOTES, LIGHT FIXTURE SCHEDULE, CODES & SHEET INDEX. |
| E101  | ELECTRICAL SINGLE LINE DIAGRAM & DETAILS.                                                        |
| E201  | ELECTRICAL SITE PLAN.                                                                            |
| E301  | ELECTRICAL DEMOLITION PLAN & GENERAL DEMOLITION NOTES.                                           |
| E701  | ELECTRICAL SPECIFICATIONS.                                                                       |
| FA001 | FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES.          |
| FA101 | FIRE ALARM RISER DIAGRAM. BATTERY & VOLTAGE DROP CALCULATIONS..                                  |
| FA201 | FIRE ALARM SITE PLAN.                                                                            |
| FA401 | FIRE ALARM PLAN.                                                                                 |
| FA701 | FIRE ALARM SPECIFICATIONS.                                                                       |

SCOPE OF WORK

DEMOLISH EXISTING BUILDING "F".  
RELOCATE EXISTING PG&E 400A METER/MAIN.

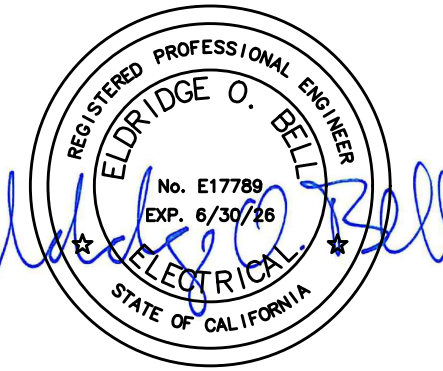
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-122416 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☐  
DATE: 11/12/2025



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BUILDING 'F'  
DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHHOUSE AVE. PACIFIC GROVE, CA. 93950



AURUM CONSULTING  
ENGINEERS  
MONTEREY BAY, INC.

Project No. 25-123.00

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Drawing Title:  
SYMBOLS, ABBREVIATIONS,  
GENERAL CONSTRUCTION  
NOTES, CODES & SHEET  
INDEX

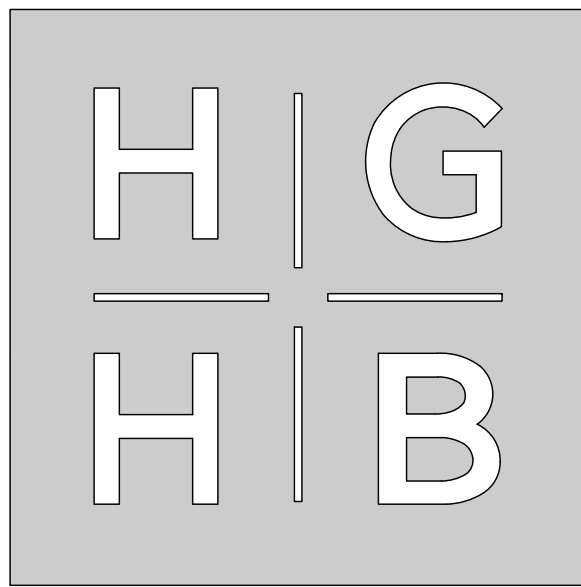
Scale: Sheet:

E001

Revision:

Date: March, 2025

Job Number: 1720.02



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## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



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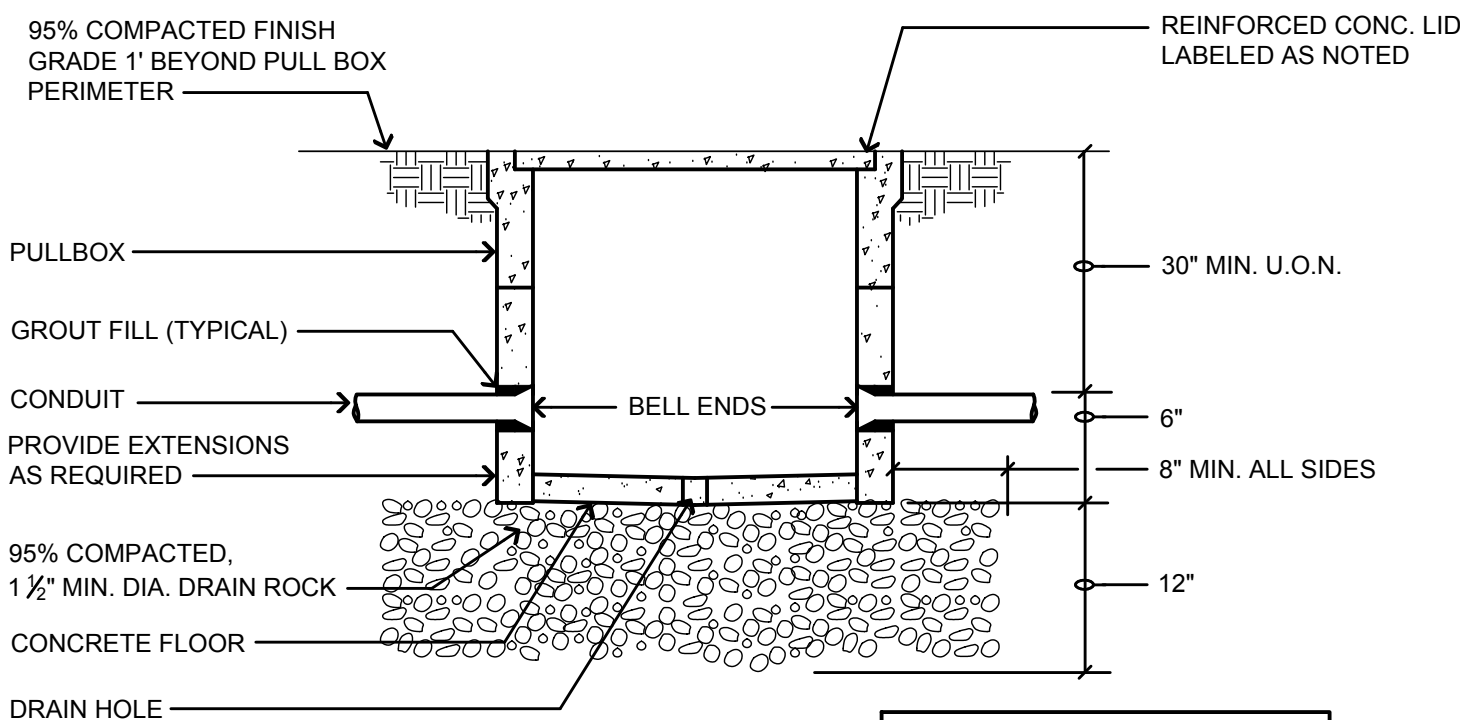
Drawing Title:  
**ELECTRICAL SINGLE LINE  
DIAGRAM & DETAILS**

Scale: Sheet:

E101

Revision:

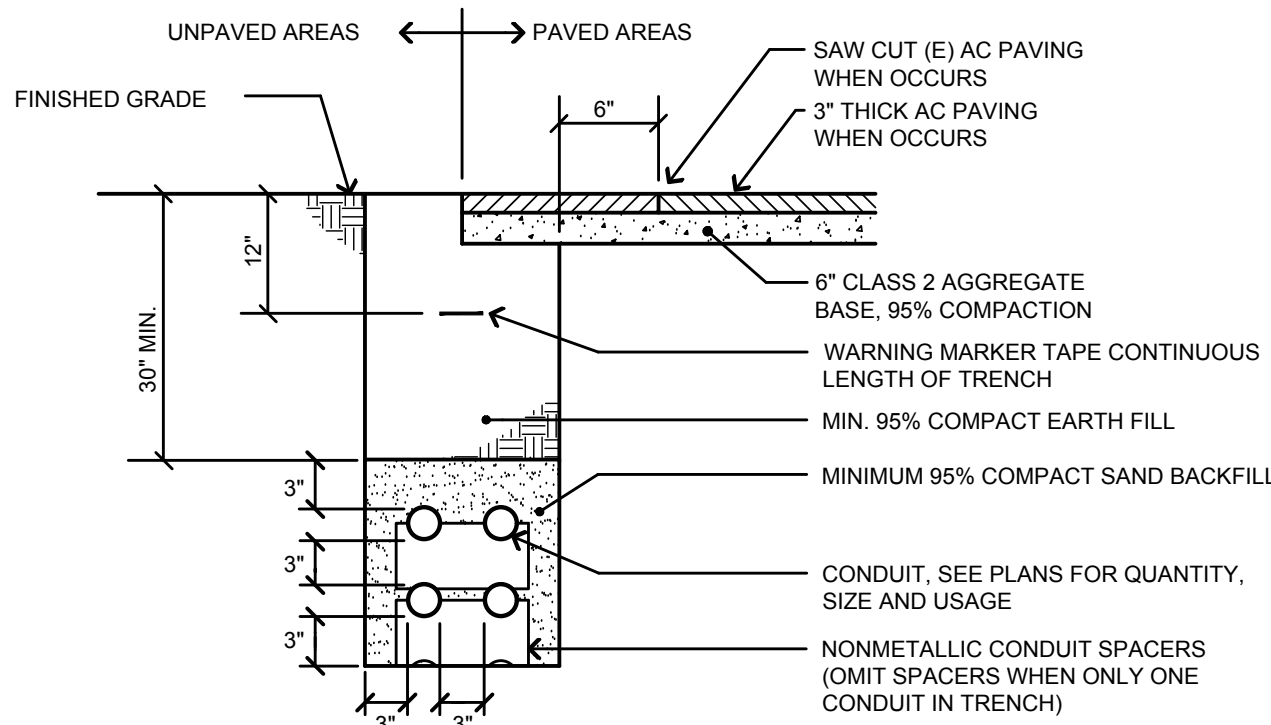
Date: March, 2025 Job Number: 1720.02



NOTE:  
SIZE(S) & MFG. AS NOTED  
ON DRAWINGS

### 6 TYPICAL PULLBOX DETAIL

NO SCALE CLOSED BOTTOM

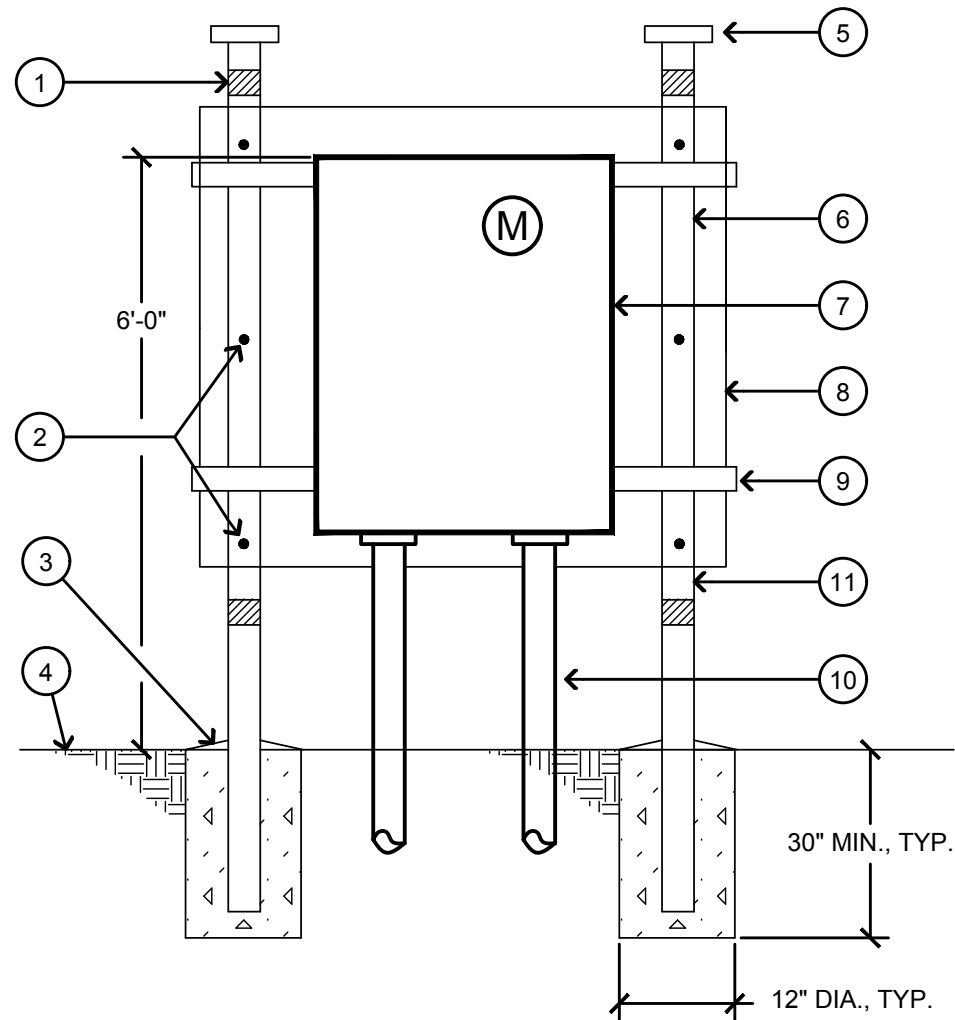


#### NOTES:

- SAW CUT, TRENCH & BACKFILL FOR NEW CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E) DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION.
- BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.

### 5 TYPICAL TRENCH SECTION

NO SCALE

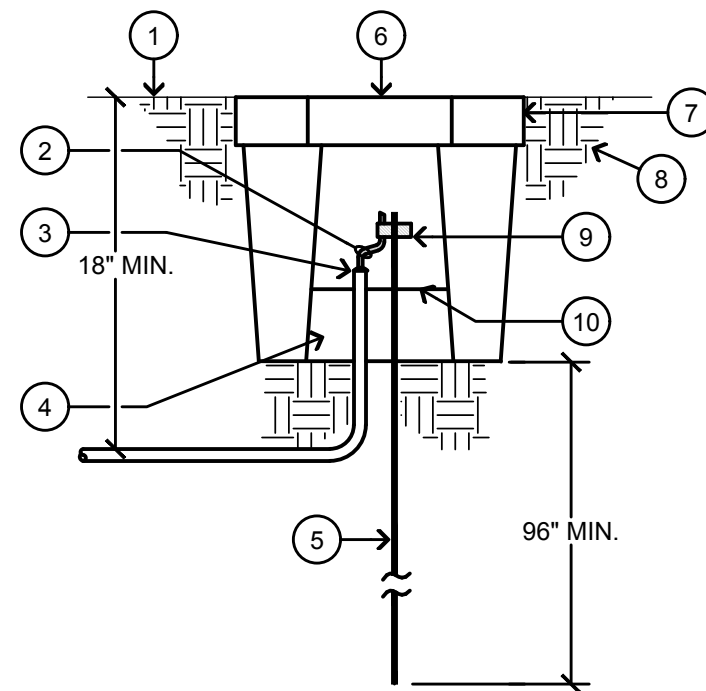


#### DETAIL NOTES:

- 3" REFLECTOR TAPE TOP & BOTTOM (TYP.)
- THRU-BOLTED WITH GALVANIZED HARDWARE AT 6 PLACES (TYP.)
- CONCRETE BASE, SLOPE AWAY FROM PIPE (TYP.)
- FINISHED GRADE
- THREADED STEEL CAP (TYP.)
- 4" GRS PIPE (TYP.)
- METER/MAIN
- 3/4" THICK EXTERIOR GRADE PLYWOOD WITH (2) COATS FOREST GREEN ENAMEL ALL SIDES
- UNISTRUT P1000 (SHALL BE SOLID TYPE, NOT SLOTTED). ACROSS BACK OF BACKBOARD (TYP. 2 PLACES) FILE AND SMOOTH ALL SHARP EDGES
- CONDUITS; SEE PLANS FOR QUANTITIES (TYP.)
- 3" GALVANIZED STEEL PIPE (TYP.)

### 4 METER/MAIN MOUNTING DETAIL

NO SCALE



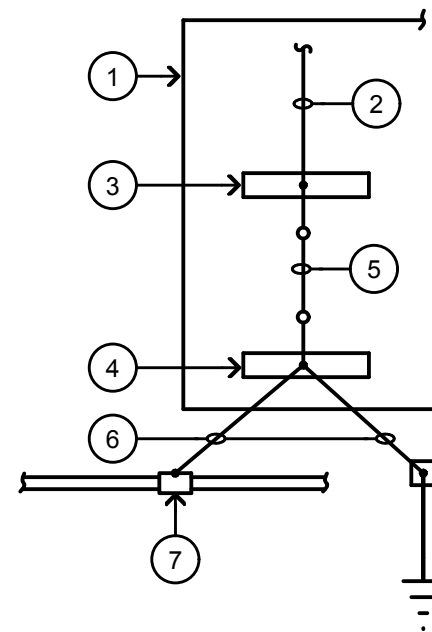
#### DETAIL NOTES:

- FINISHED GRADE.
- GROUND CONDUCTOR.
- SEAL CONDUIT WATERTIGHT.
- GROUT BOTTOM MINIMUM 3".
- 1/2" x 10'-0" COPPER CLAD GROUND ROD.
- LID LABELED "GROUND ROD".
- CHRISTY "F8" GROUND ROD BOX.
- UNDISTURBED EARTH.
- GROUND CLAMP.
- COAT ALL INSIDE SURFACES WITH SEALANT.

GENERAL NOTE:  
WHERE METAL CONDUIT USED IN LIEU OF PVC, PROVIDE GROUND BUSHINGS & BONDS PER CODE.

### 3 GROUND ROD BOX DETAIL

NO SCALE



#### DETAIL NOTES:

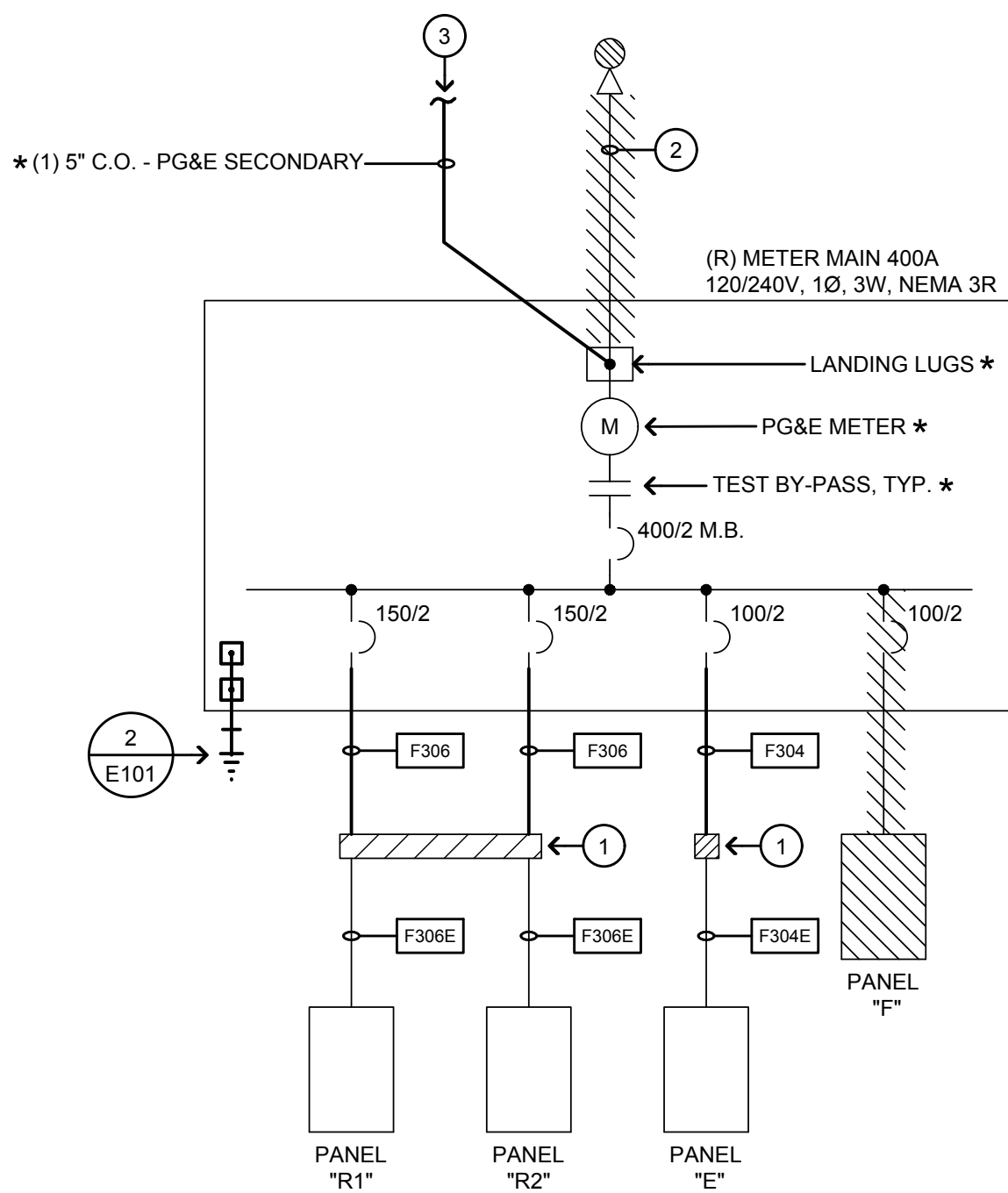
- MAIN ELECTRICAL SERVICE SWITCHBOARD.
- INCOMING NEUTRAL.
- SERVICE NEUTRAL LANDING LUG/NEUTRAL BUS.
- GROUND BUS.
- REMOVABLE MAIN SERVICE BONDING JUMPER FURNISHED WITH SWITCHBOARD CONNECTED BY CONTRACTOR.
- 1" SCHEDULE 80 PVC CONDUIT WITH 1 #2/0 GROUNDING ELECTRODE CONDUCTOR. SEE SINGLE LINE DIAGRAM 1/E1.1 FOR GROUNDING ELECTRODE CONDUCTOR REQUIREMENTS.
- COLD WATER PIPE IN THE BUILDING WITHIN 5' OF ENTRANCE OF BUILDING THAT MEETS REQUIREMENTS OF CEC 250.52 (A)(1).
- SERVICE GROUND ROD.

#### GENERAL NOTE:

IF AVAILABLE ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED EACH OF THE FOLLOWING SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM:  
a. METAL FRAME OF BUILDING  
b. GROUND RING  
c. OTHER ELECTRODES PER CEC 250.52 (A)(2) THROUGH (7)

### 2 ELECTRICAL SERVICE GROUND ROD

NO SCALE



#### DETAIL NOTES:

- INTERCEPT EXISTING CONDUIT/FEEIDER IN EXISTING PULLBOX; SEE SHEET E201 FOR LOCATION. PROVIDE AND INSTALL SUBMERSIBLE TYPE NSI SPLICE KITS OR EQUAL.
- EXISTING PG&E OVERHEAD SECONDARY BEING REMOVED PER PG&E REQUIREMENTS.
- TO PG&E RISER & PULL MOUNTED TRANSFORMER. SEE SHEET E201 FOR REQUIREMENTS.

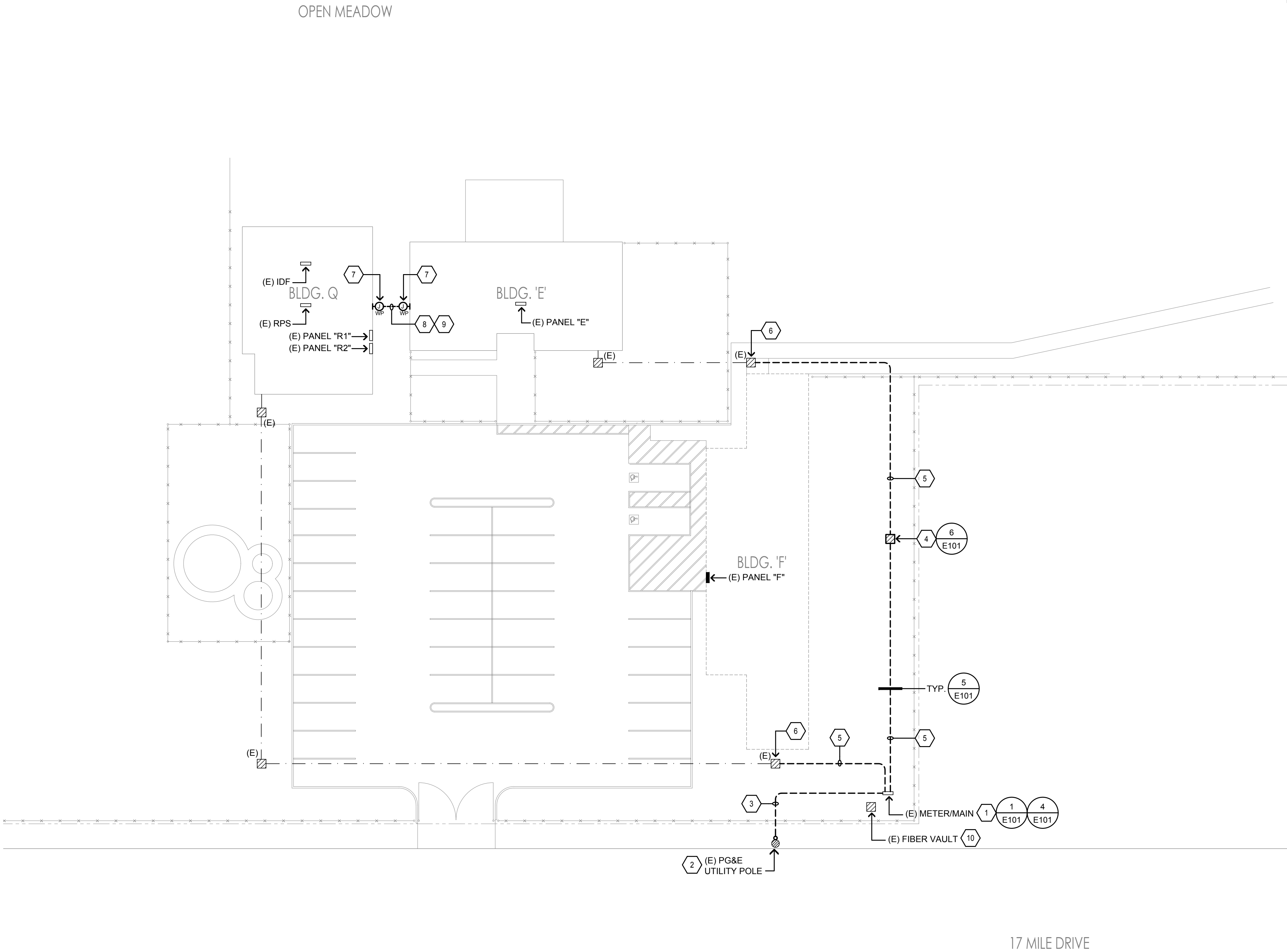
| FEEDER SCHEDULE |          |                                   |
|-----------------|----------|-----------------------------------|
| DESIGNATION     | AMPACITY | CONDUIT & CONDUCTORS SIZES        |
| F304            | 100      | 1 1/4" C., 3 #2 & 1 #8 GND.       |
| F304E           | 100      | (E) 1 1/4" C., 3 #2 & 1 #8 GND.   |
| F306            | 150      | 1 1/2" C., 3 #1/0 & 1 #6 GND.     |
| F306E           | 150      | (E) 1 1/2" C., 3 #1/0 & 1 #6 GND. |

| SINGLE LINE DIAGRAM LEGEND |                                 |
|----------------------------|---------------------------------|
| //////////                 | (DEMOLISH)                      |
| —————                      | (EXISTING)                      |
| —————                      | (NEW)                           |
| —————                      | (E) FLOOR/PAD MOUNTED EQUIPMENT |

\* PER PG&E RULES, REGULATIONS, AND STANDARDS

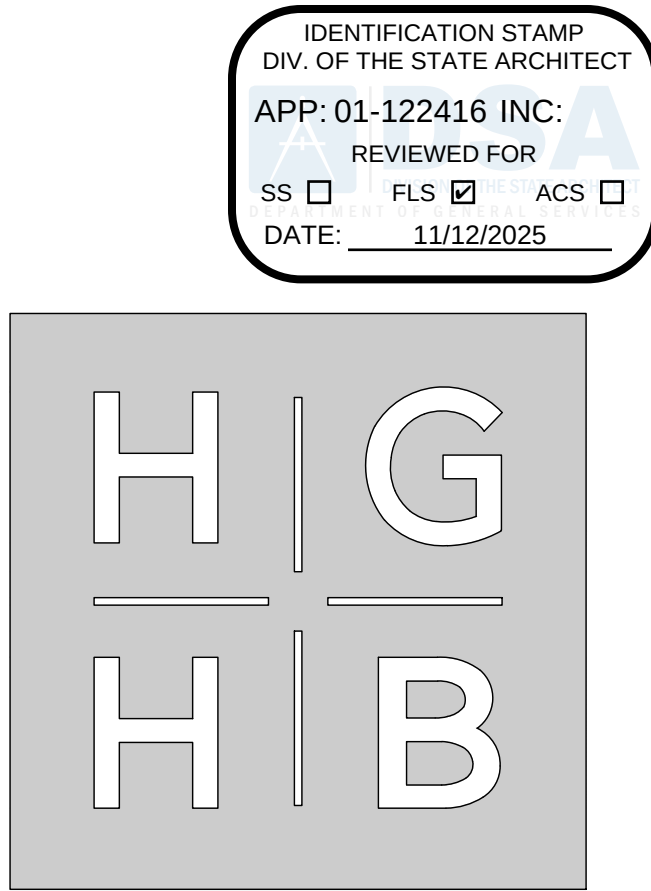
### 1 SINGLE LINE DIAGRAM

NO SCALE



- ### SHEET NOTES
- EXISTING PG&E METER/MAIN BEING RELOCATED. SEE SHEET E101 FOR REQUIREMENTS.
  - APPROXIMATE LOCATION OF (E) UTILITY POLE W/ PG&E SECONDARY/TRANSFORMERS CONNECTIONS.
  - PG&E SECONDARY SEE SHEET E101 FOR REQUIREMENTS.
  - PROVIDE AND INSTALL CHRISTY #N36 PULLBOX WITH LID LABELED "ELECTRICAL".
  - PROVIDE AND INSTALL CONDUIT AND FEEDER FROM RELOCATED METER/MAIN. SEE ELECTRICAL SINGLE LINE DIAGRAM 1/E101 FOR SIZE AND REQUIREMENTS.
  - EXISTING PULLBOX. INTERCEPT EXISTING CONDUIT/FEEDER. SEE 1/E101 FOR REQUIREMENTS.
  - PROVIDE AND INSTALL 24" SQ. x 12" DEEP NEMA 3R PULLCAN WITH SCREW COVER ON EXTERIOR WALL FOR TRANSITION OF SYSTEMS/FIRE ALARM CONDUITS. PAINT/FINISH CONDUITS AND PULLCAN TO MATCH BUILDING EXTERIOR. STUB SYSTEMS/FIRE ALARM CONDUITS IN/OUT OF ACCESSIBLE CEILING SPACE.
  - PROVIDE & INSTALL (FROM EXISTING DAYCARE FACILITY BLDG. "Q");  
-(1) 1-1/4"C. FOR FIRE ALARM CABLES.
  - PROVIDE & INSTALL (FROM EXISTING IDF LOCATED IN DAYCARE FACILITY BLDG "Q");  
-(1) 2"C. FOR DATA CABLES.
  - EXISTING FIBER VAULT SERVING BUILDING "F". CONTRACTOR SHALL PULL BACK AND COIL EXISTING FIBER OPTIC CABLE. SAFE OFF FOR FUTURE USE.

- ### NOTES:
- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
- B. ALL WIRING FOR SITE LIGHTING SHALL BE #10 AWG MINIMUM, U.O.N.
- C. ALL UTILITIES (PG&E, AT&T AND CATV) ARE SHOWN IN SCHEMATIC FORM ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY ENGINEERED DRAWINGS PRIOR TO START OF CONSTRUCTION AND PROVIDE FACILITIES ACCORDINGLY.
- D. WHERE TRENCH NEAR TREES; CONTRACTOR SHALL HAND TRENCH TO AVOID CONFLICTS AND TREE/ROOTS DAMAGE. COORDINATE WITH ARCHITECT PRIOR TO START OF WORK.
- E. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.



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## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



**AURUM CONSULTING ENGINEERS**  
MONTEREY BAY, INC.

Project No. 25-123.00

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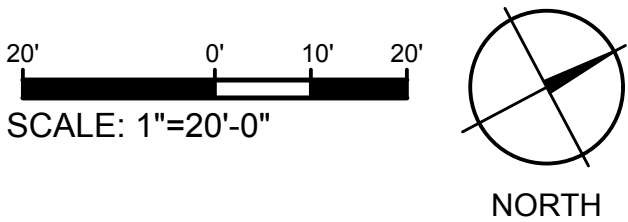
Drawing Title:  
**ELECTRICAL SITE PLAN**

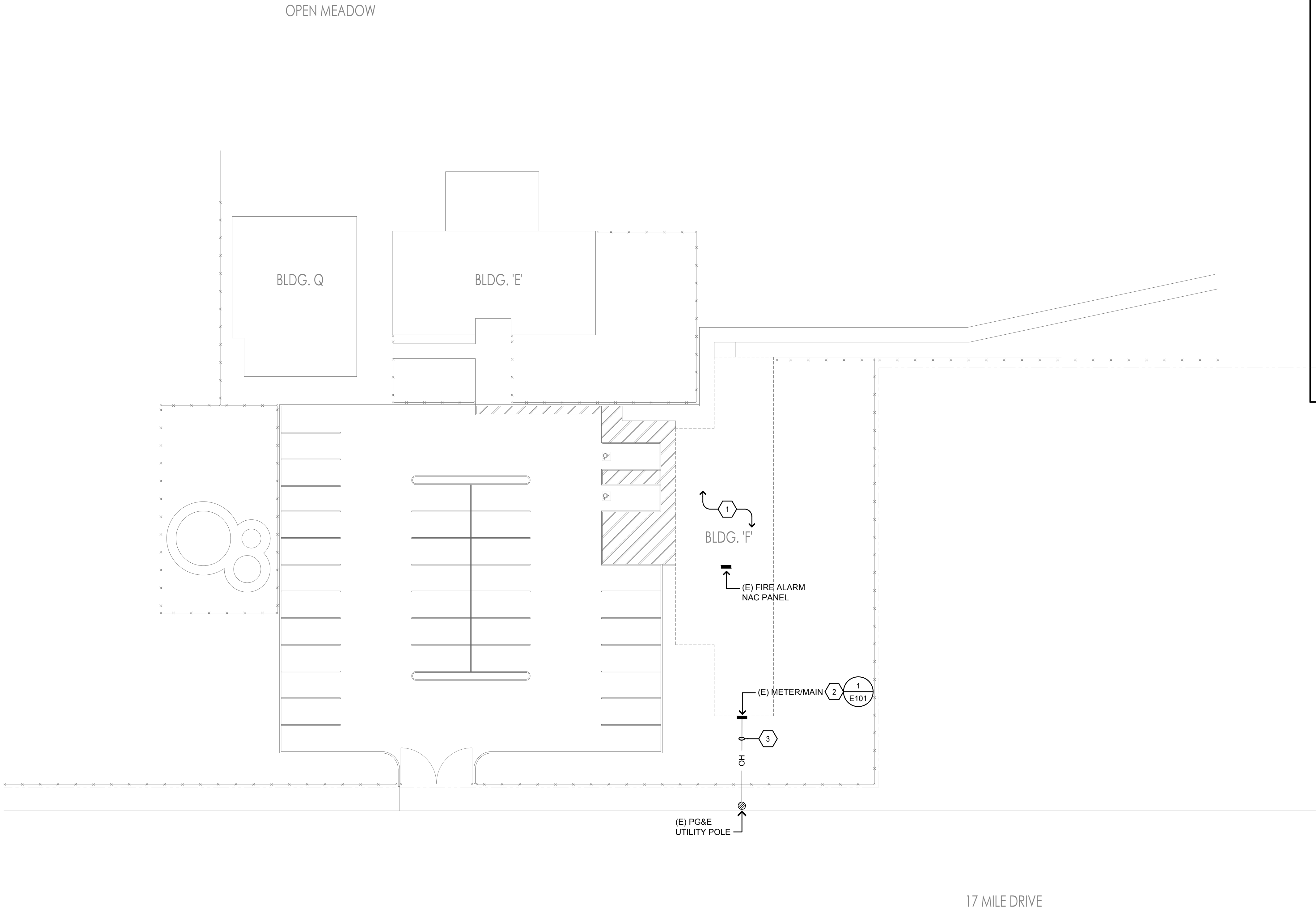
Scale: Sheet:

**E201**

Revision:

Date: March, 2025 Job Number: 1720.02





### SHEET NOTES

- PER GENERAL DEMOLITION NOTES, DEMOLISH ALL EXISTING ELECTRICAL INFRASTRUCTURE COMPLETE IN THIS BUILDING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, INTRUSION ALARM, TELECOM, ELECTRICAL POWER AND LIGHTING, PA SPEAKER/CLOCK SYSTEMS COMPLETE BACK TO LAST ACTIVE SOURCE.
- EXISTING PG&E METER/MAIN BEING RELOCATED. PER GENERAL DEMOLITION NOTES ON THIS SHEET, CONTRACTOR SHALL DEMOLISH EXISTING PANEL FEEDERS SERVING EXISTING BUILDING "F". ALL REMAINING FEEDERS AND BREAKERS ARE TO REMAIN CONNECTED.
- COORDINATE REMOVAL OF EXISTING PG&E OVERHEAD SECONDARY PER PG&E REQUIREMENTS. SEE SHEET 1/E101. COORDINATE DISCONNECT/ RECONNECT WITH PG&E.

### GENERAL DEMOLITION NOTES

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

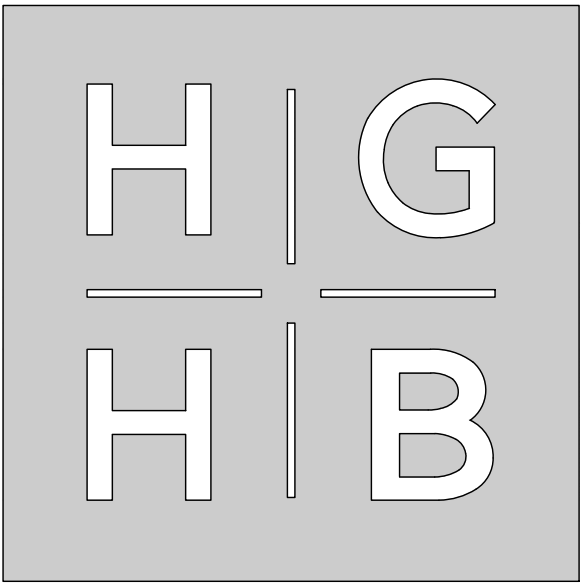
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DIV. OF THE STATE ARCHITECT

APP: 01-122416 INC:

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SS ☐ FLS ☒ ACS ☐

DATE: 11/12/2025



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Drawing Title:  
**ELECTRICAL DEMOLITION  
PLAN & GENERAL  
DEMOLITION NOTES**

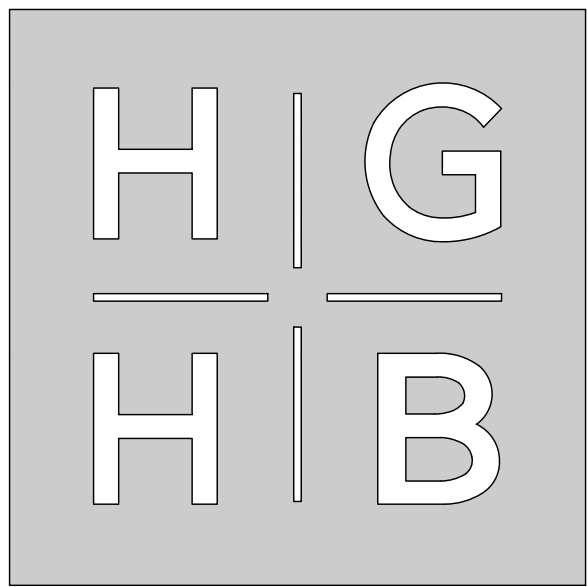
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Revision:

Date: March, 2025 Job Number: 1720.02

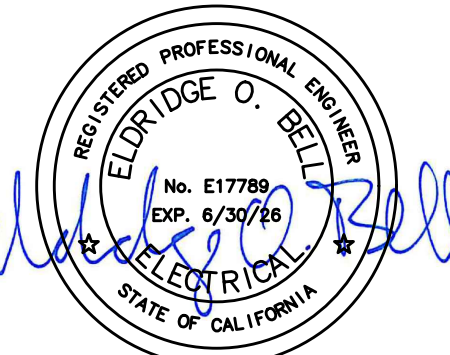




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Drawing Title:  
ELECTRICAL SPECIFICATIONS

Scale: Sheet:

E701

Revision:

Date: March, 2025 Job Number: 1720.02

### SECTION 26 05 00

#### GENERAL ELECTRICAL REQUIREMENTS

##### PART 1 - GENERAL

- 1.01 Description of Work:
- Furnish and install all required in-place equipment, conduits, conductors, cables and any miscellaneous materials for the satisfactory interconnection and operation of all associated electrical systems.
- 1.02 Submittals:
- As specified in Division 01. Submit to the Architect shop drawings, manufacturer's data and certificates for equipment, materials and finish, and pertinent details for each system specified. Information to be submitted includes manufacturer's descriptive literature of cataloged products, equipment, drawings, diagrams, performance and characteristic curves as applicable, test data and catalog cuts. Obtain written approval before procurement, fabrication, or delivery of the items to the job site.
  - Proposed substitutions of products will not be reviewed or approved prior to awarding of the Contract.
  - Substitutions shall be proven to the Architect or Engineer to be equal or superior to the specified product. Architect's decision is final. The Contractor shall pay all costs incurred by the Architect and Engineer in reviewing and processing any proposed substitutions whether or not a proposed substitution is accepted.
  - If a proposed substitution is rejected, the contractor shall furnish the specified product at no increase in contract price.
  - If a proposed substitution is accepted, the contractor shall be completely responsible for all dimensional changes, electrical changes, or changes to other work which are a result of the substitution. The accepted substitution shall be made at no additional cost to the owner or design consultants.

- 1.03 Quality Assurance:
- Codes: All electrical equipment and materials, including installation and testing, shall conform to the latest editions of the following applicable codes:
    - California Electrical Code (CEC)
    - Occupational Safety and Health Act (OSHA) standards.
    - All applicable local codes, rules and regulations.
  - Electrical Contractor shall possess a C-10 license and all other licenses as may be required. Licenses shall be in effect at start of this contract and be maintained throughout the duration of this contract.
  - Variances: In instances where two or more codes are at variance, the most restrictive requirement shall apply.
  - Standards: Equipment shall conform to applicable standards of American National Standards Institute (ANSI), Electronics Industries Association (EIA), Institute of Electrical and Electronics Engineers (IEEE), and National Electrical Manufacturers Association (NEMA).
  - Underwriter Laboratories (UL) listing is required for all equipment and materials where such listing is offered by the Underwriters Laboratories. Provide service entrance labels for all equipment required by the NEC to have such labels.
  - The electrical contractor shall guarantee all work and materials installed under this contract for a period of one (1) year from date of acceptance by owner.
  - All work and materials covered by this specification shall be subject to inspection at any and all times by representatives of the owner. Work shall not be closed in or covered before inspection and approval by the owner or his representative. Any material found not conforming with these specifications shall, within 3 days after being notified by the owner, be removed from premises; if said material has been installed, entire expense of removing and replacing same, including any cutting and patching that may be necessary, shall be borne by the contractor.

- 1.04 Contract Documents:
- Drawings: The Electrical Drawings shall govern the general layout of the completed construction.
    - Locations of equipment, panels, pullboxes, conduits, stub-ups, ground connections are approximate unless dimensioned; verify locations with the Architect prior to installation.
    - The general arrangement and location of existing conduits, piping, apparatus, etc., is approximate. The drawings and specifications are for the assistance and guidance of the contractor, exact locations, distances and elevations are governed by actual field conditions. Accuracy of data given herein and on the drawings is not guaranteed. Minor changes may be necessary to accommodate work. The contractor is responsible for verifying existing conditions. Should it be necessary to deviate from the design due to interference with existing conditions or work in progress, claims for additional compensation shall be limited to those for work required by unforeseen conditions as determined by the Architect.
    - All drawings and divisions of these specifications shall be considered as whole. The contractor shall report any apparent discrepancies to the Architect prior to submitting bids.
    - The contractor shall be held responsible to have examined the site and compared it with the specifications and plans and to have satisfied himself as to the conditions under which the work is to be performed. He shall be held responsible for knowledge of all existing conditions whether or not accurately described. No subsequent allowance shall be made for any extra expense due to failure to make such examination.

- 1.05 Closeout Submittals:
- Manuals: Furnish manuals for equipment where manuals are specified in the equipment specifications or are specified in Division 01.
- 1.06 Coordination:
- Coordinate the electrical work with the other trades, code authorities, utilities and the Architect.
  - Provide and install all trenching, backfilling, conduit, pull boxes, splice boxes, etc. for all Utility Company services to the locations indicated on the Drawings. Prior to performing any work, the Electrical Contractor shall coordinate with the various Utility Companies to verify that all such work and materials shown on the Drawings are of sufficient sizes and correctly located to provide services on the site.
  - Utility Company charges shall be paid by the Owner.
  - Contractor shall pay all inspection and other applicable fees and procure all permits necessary for the completion of this work.
  - Where connections must be made to existing installations, properly schedule all the required work, including the power shutdown periods.
  - When two trades join together in an area, make certain that no electrical work is omitted.

- 1.07 Job Conditions:
- Operations: Perform all work in compliance with Division 01
    - Keep the number and duration of power shutdown periods to a minimum.
    - Show all proposed shutdowns and their expected duration on the construction schedule. Schedule and carry out shutdowns so as to cause the least disruption to operation of the Owner's facilities.
    - Carry out shutdown only after the schedule has been approved, in writing, by the owner. Submit power interruption schedule 15 days prior to date of interruption.
  - Construction Power: Unless otherwise noted in Division 01 of these specifications, contractor shall make all arrangements and provide all necessary facilities for temporary construction power to the site. Energy costs shall be paid by the General Contractor.

- 1.08 Safety and Indemnity:
- The Contractor is solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continually and not be limited to normal working hours. The contractor shall provide and maintain throughout the work site proper safeguards including, but not limited to, enclosures, barriers, warning signs, lights, etc. to prevent accidental injury to people or damage to property.
  - The Contractor performing work under this Division of the Specifications shall hold harmless, indemnify, and defend the Owner, the Engineer, their consultants, and each of their officers, agents and employees from any and all liability claims, losses, or damage arising out of or alleged to arise from bodily injury, sickness, or death of a person or persons and for all damages arising out of injury to or destruction of property arising directly or indirectly out of or in connection with the performance of the work under this Division of the Specifications, and from the Contractor's negligence in the performance of the work described in the construction contract documents, but not including liability that may be due to the sole negligence of the Owner, the Engineer, their Consultants or their officers, agents and employees.
  - If a work area is encountered that contains hazardous materials, the contractor is advised to coordinate with the owner and it's abatement consultant for abatement of hazardous material by the Owner's Representative. "Hazardous materials" means any toxic substance regulated or controlled by OSHA, EPA, State of California or local rules, regulations and laws. Nothing herein shall be construed to create a liability for Aurum Consulting Engineers regarding hazardous materials abatement measures, or discovery of hazardous materials.

- 1.09 Access Doors:
- The contractor shall install access panels as required where floors, walls or ceilings must be penetrated for access to electrical, control, fire alarm or other specified electrical devices. The minimum size panel shall be 14" x 14" in usable opening. Where access by a service person is required, minimum usable opening shall be 18" x 24".
- 1.10 Arc Flash:
- The contractor shall install a clearly visible arc flash warning to the inside door of all panelboards and industrial control panels, as well as to the front of all switchboards and motor control centers that are a part of this project.
  - The warning shall have the following wording: line 1 "WARNING" (in large letters), line 2 "Potential Arc Flash Hazard" (in medium letters), line 3 & 4 "Appropriate Personal Protective Equipment and Tools required when working on this equipment".

- 1.11 All boxes and enclosures for emergency circuits shall be permanently marked with a readily visible red spray painted mark.

##### PART 2 - PRODUCTS

- 2.01 Nameplates:
- Identify each piece of equipment and related controls with a rigid laminated engraved plastic nameplate. Unless otherwise noted, nameplates shall be melamine plastic 0.125 inch thick, white with black center. Surface shall be matte finish. Corners shall be square. Accurately align lettering and engrave into the core. Minimum size of nameplates shall be 0.5 by 2.5 inches unless otherwise noted. Where not otherwise specified, lettering shall be a minimum of 0.25 inch high normal block style. Engrave nameplates with the inscriptions indicated on the Drawings and, if not so indicated, with the equipment name. Securely fasten nameplates in place using two stainless steel or brass screws.
- 2.02 Finish requirements:
- Equipment: Refer to each electrical equipment section of these Specifications for painting requirements of equipment enclosures. Repair any final paint finish which has been damaged or is otherwise unsatisfactory, to the satisfaction of the Architect.
  - Wiring System: In finished areas, paint all exposed conduits, boxes and fittings to match the color of the surface to which they are affixed.

##### PART 3 - EXECUTION

- 3.01 Workmanship:
- All electrical equipment and materials shall be installed in a neat and workmanship manner in accordance with the "NECA - Standard Practices For Good Workmanship in Electrical Contracting". Workmanship of the entire job shall be first class in every respect.
- 3.02 Equipment Installations:
- Provide the required inserts, bolts and anchors, and securely attach all equipment and materials to their supports.
  - Do all the cutting and patching necessary for the proper installation work and repair any damage done.
  - Earthquake restraints: all electrical equipment, including conduits equal to or greater than 2.5 inches in diameter, shall be braced or anchored to resist a horizontal force acting in any direction as per CBC section 1617A.1.24 Title 24, part 2 and ASCET, section 13.6.5.
  - Structural work: All core drilling, bolt anchor insertion, or cutting of existing structural concrete shall be approved by a California registered structural consulting engineer prior to the execution of any construction. At all floor slabs and structural concrete walls to be drilled, cut or bolt anchors inserted, the contractor shall find and mark all reinforcing in both faces located by means of x-ray, pach-ometer, or prof-ometer. Submit sketch showing location of rebar and proposed cuts, cores, or bolt anchor locations for approval.
- 3.03 Field Test:
- Perform equipment field tests and adjustments. Properly calibrate, adjust and operationally check all circuits and components, and demonstrate as ready for service.
  - Operational Tests: Operationally test all circuits to demonstrate that the circuits and equipment have been properly installed and adjusted and are ready for full-time service. Demonstrate the proper functioning of circuits in all modes of operation, including alarm conditions.
- 3.04 Records:
- Maintain one copy of the contract Drawing Sheets on the site of the work for recording the "as built" condition. After completion of the work, the Contractor shall carefully mark the work as actually constructed, revising, deleting and adding to the Drawing Sheets as required. As built Drawings shall be delivered to the Architect within ten (10) days of completion of construction.

- 3.05 Clean Up:
- Upon completion of electrical work, remove all surplus materials, rubbish, and debris that accumulated during the construction work. Leave the entire area neat, clean, and acceptable to the Architect.

### SECTION 26 05 26

#### GROUNDING

##### PART 1 - EXECUTION

- 1.1 Grounding and Bonding:
- Grounding and bonding shall be as required by codes and local authorities.
  - All electrical equipment shall be grounded, including, but not limited to, panel boards, terminal cabinets and outlet boxes.
  - The ground pole of receptacles shall be connected to their outlet boxes by means of a copper ground wire connecting to a screw in the back of the box.
  - A green insulated copper ground wire, sized to comply with codes, shall be installed in all conduit runs.
  - All metal parts of pull boxes shall be grounded per code requirements.
  - All ground conductors shall be green insulated copper.

### SECTION 26 05 42

#### CONDUITS, RACEWAYS AND FITTINGS

##### PART 1 - EXECUTION

- 1.01 Conduit, Raceway and Fitting Installation:
- For conduit runs exposed to weather provide rigid metal (GRS).
  - For conduit run underground, in concrete or masonry block wall and under concrete slabs, install minimum 1/2" size nonmetallic (PVC) with PVC elbows. Where conduits transition from underground or under slab to above grade install wrapped rigid metal (GRS) elbows and risers.
  - For conduit runs concealed in steel or wood framed walls or in ceiling spaces or exposed in interior spaces above six feet over the finished floor, install EMT.
  - Flexible metal conduit shall be used only for the connection of recessed lighting fixtures and motor connectors unless otherwise noted on the Drawings. Liquid-tight steel flexible conduit shall be used for motor connections.
  - The minimum size raceway shall be 1/2-inch unless indicated otherwise on the Drawings.
  - Installation shall comply with the CEC.
  - From pull point to pull point, the sum of the angles of all of the bends and offset shall not exceed 360 degrees.
  - Conduit Supports: Properly support all conduits as required by the NEC. Run all conduits concealed except where otherwise shown on the drawings.
    - Exposed Conduits: Support exposed conduits within three feet of any equipment or device and at intervals not exceeding NEC requirements; wherever possible, group conduits together and support on common supports. Support exposed conduits fastened to the surface of the concrete structure by one-hole clamps, or with channels. Use conduit spacers with one-hole clamps.
      - Conduits attached to walls or columns shall be as unobtrusive as possible and shall avoid windows. Run all exposed conduits parallel or at right angles to building lines.
      - Group exposed conduits together. Arrange such conduits uniformly and neatly.
    - Support all conduits within three feet of any junction box, coupling, bend or fixture.
    - Support conduit risers in shafts with Unistrut Superstud, or approved equal, channels and straps.
  - Moisture Seals: Provide in accordance with NEC paragraphs 230-8 and 300-5(g).
  - Where PVC conduit transitions from underground to above grade, provide rigid steel 90's with risers. Rigid steel shall be half-lap wrapped with 20 mil tape and extend minimum 12" above grade.
  - Provide a nylon pull cord in each empty raceway.
  - Provide galvanized rigid steel factory fittings for galvanized rigid steel conduit.
  - Slope all underground raceways to provide drainage; for example, slope conduit from equipment located inside a building to the pull box or manhole located outside the building.
  - Conduits shall be blown out and swabbed prior to pulling wires.

### SECTION 26 05 19

#### LINE VOLTAGE WIRE AND CABLE

##### PART 1 - PRODUCTS

- 1.01 Conductors:
- Conductors shall be copper, type THHN/THWN/ATW oil and gasoline resistant, 90°C, 600 volt rated insulation.
  - Conductors shall be stranded copper.
  - Minimum power and control wire size shall be No. 12 AWG unless otherwise noted.
  - All conductors used on this Project shall be of the same type and conductor material.
- 1.02 Terminations:
- Manufacturer - Terminals as manufactured by T&B, Bundy or equal.
  - Wire Terminations - Stranded conductors shall be terminated in clamping type terminations which serve to contain all the strands of the conductor. Curing of a stranded conductor around a screw type terminal is not allowed. For screw type terminations, use a fork type stake-on termination on the stranded conductor. Use only a stake-on tool approved for the fork terminals selected.
  - End Seals - Heat shrink plastic caps of proper size for the wire on which used.
- 1.03 Tape:
- Tape used for terminations and cable marking shall be compatible with the insulation and jacket of the cable and shall be of plastic material.

##### PART 2 - EXECUTION

- 2.01 Cable Installation:
- Clean Raceways - Clean all raceways prior to installation of cables as specified in Section 26 05 42 - Conduits Raceway and Fittings.
  - All wiring including low voltage wiring shall be installed in conduit, U.O.N.
  - All feeder conductors shall be continuous from equipment to equipment. Splices in feeders are not permitted unless specifically noted or approved by the Electrical Engineer.
  - All branch circuit wiring shall be run concealed in ceiling spaces, walls, below floors or in crawl spaces unless noted otherwise.
- 2.02 Cable Terminations and Splices:
- Splices - UL Listed wirenuts.
  - Terminations - Shall comply with the following:
    - Make up and form cable and orient terminals to minimize cable strain and stress on device being terminated on.
    - Burnish oxide from conductor prior to inserting in oxide breaking compound filled terminal.

- 2.03 Circuit and Conductor Identification:
- Color Coding - Provide color coding for all circuit conductors. Insulation color shall be white for neutrals and green for grounding conductors. Conductor colors shall be as follows:

| VOLTAGE | 240V/208V |
|---------|-----------|
| Phase A | Black     |
| Phase B | Red       |
| Phase C | White     |
| Neutral | Green     |
  - Color coding shall be in the conductor insulation for all conductors #10 AWG and smaller; for larger conductors, color shall be either in the insulation or in colored plastic tape applied at every location where the conductor is readily accessible.
  - Circuit Identification - All underground distribution and service circuits shall be provided with plastic identification tags in each secondary box and at each termination. Tags shall identify the source transformer of the circuit and the building number(s) serviced by the circuit.

- 2.04 Field Tests:
- All systems shall test free from short circuits and grounds, shall be free from mechanical and

- electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than the requirements of the CEC. All circuits shall be tested for proper neutral connections.
- Insulation Resistance Tests: perform insulation resistance tests on circuits with #2 AWG and larger conductors to be energized with a line-to-neutral voltage of 120 volts or more. Make these tests before all equipment has been connected. Test the insulation with a 500Vdc insulation resistance tester with a scale reading 100 megohms. The insulation resistance shall be 2 megohms or more. Submit results for review.
  - Contractor shall torque all termination of feeders/circuits terminations where required per CEC and manufacturer labeling requirements at point of connection.

### SECTION 26 05 33

#### OUTLET, JUNCTION AND PULL BOXES

##### PART 1 - PRODUCTS

- 1.01 Outlet boxes, Junction and Pull boxes
- Standard Outlet Boxes: Galvanized, steel, knock-out type of size and configuration best suited to the application indicated on the Drawings. Minimum box size shall be 4 inches square (octagon for most light fixtures) by 1-1/2 inches deep with mud rings as required. Boxes used with conduit 1" or larger shall be minimum 2" deep.
  - Switch boxes: Minimum box size shall be 4 inches square by 1-1/2 inches deep with mud rings as required. Install multiple switches in standard gang boxes with raised device covers suitable for the application indicated.
  - Conduit bodies: Cadmium plated, cast iron alloy. Conduit bodies with threaded conduit hubs and neoprene gasketed, cast iron covers. Bodies shall be used to facilitate pulling of conductors or to make changes in conduit direction only. Splices are not permitted in conduit bodies. Grouse Hinds Form 8 Condulets, Appleton Form 35 Unilets or equal.
  - Sheet Metal Boxes: Use standard outlet or concrete ring boxes wherever possible; otherwise use a minimum 16 gauge galvanized sheet metal, NEMA 1 box sized to Code requirements with covers secured by cadmium plated machine screws located six inches on centers. Circle AW Products, Hoffman Engineering Company or equal.
  - Flush Mounted Pull boxes and Junction boxes: Provide overlapping covers with flush head cover retaining screws, prime coated.

##### PART 2 - EXECUTION

- 2.01 Outlet Boxes
- General:
    - All outlet boxes shall finish flush with building walls, ceilings and floors except in mechanical and electrical rooms above accessible ceiling or where exposed work is called for on the Drawings.
    - Install raised device covers (plaster rings) on all switch and receptacle outlet boxes installed in masonry or stud walls or in framed, suspended or exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish.
    - Leave no unused openings in any box. Install close-up plugs as required to seal openings.
  - Box Layout:
    - Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades shall be connected to their outlet boxes by means of a copper ground wire connecting to a screw in the back of the box.
    - Outlet boxes shall not be installed back to back nor shall through-wall boxes be permitted. Outlet boxes on opposite sides of a common wall shall be separated horizontally by at least one stud or vertical structural member.
    - For outlets mounted above counters, benches or backsplashes, coordinate location and mounting heights with built-in units. Adjust mounting height to agree with required location for equipment served.
    - On fire rated walls, the total face area of the outlet boxes shall not exceed 100 square inches per 100 square feet of wall area.
  - Supports:
    - Outlet Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on specified box supports.
    - Fixture outlet boxes installed in suspended ceiling of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling runners.
    - Fixture outlet boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above where pendant mounted lighting fixture are to be installed on the box.
    - Fixture Boxes above tile ceilings having exposed suspension systems shall be supported directly from the structure above.
    - Outlet and/or junction boxes shall not be supported by grid or fixture hanger wires at any location.
  - Junction And Pull Boxes
  - General:
    - Install junction or pull boxes where required to limit bends in conduit runs to not more than 360 degrees or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Note that these boxes are not shown on the Drawings.
    - Locate pull boxes and junction boxes in concealed locations above accessible ceilings or exposed in electrical rooms, utility rooms or storage areas.
    - Install raised covers (plaster rings) on boxes in stud walls or in framed, suspended or exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish.
    - Leave no unused openings in any box. Install close-up plugs as required to seal openings.
    - Identify circuit numbers and panel or panel of junction box with black marker pen.
  - Box Layouts:
    - Boxes above hung ceilings having concealed suspension systems shall be located adjacent to openings for removable recessed lighting fixtures.
  - Supports:
    - Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on specified box supports.
    - Boxes installed in suspended ceilings of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling runners.
    - Boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above.
    - Boxes mounted above suspended acoustical tile ceilings having exposed suspension systems shall be supported directly from the structure Above.

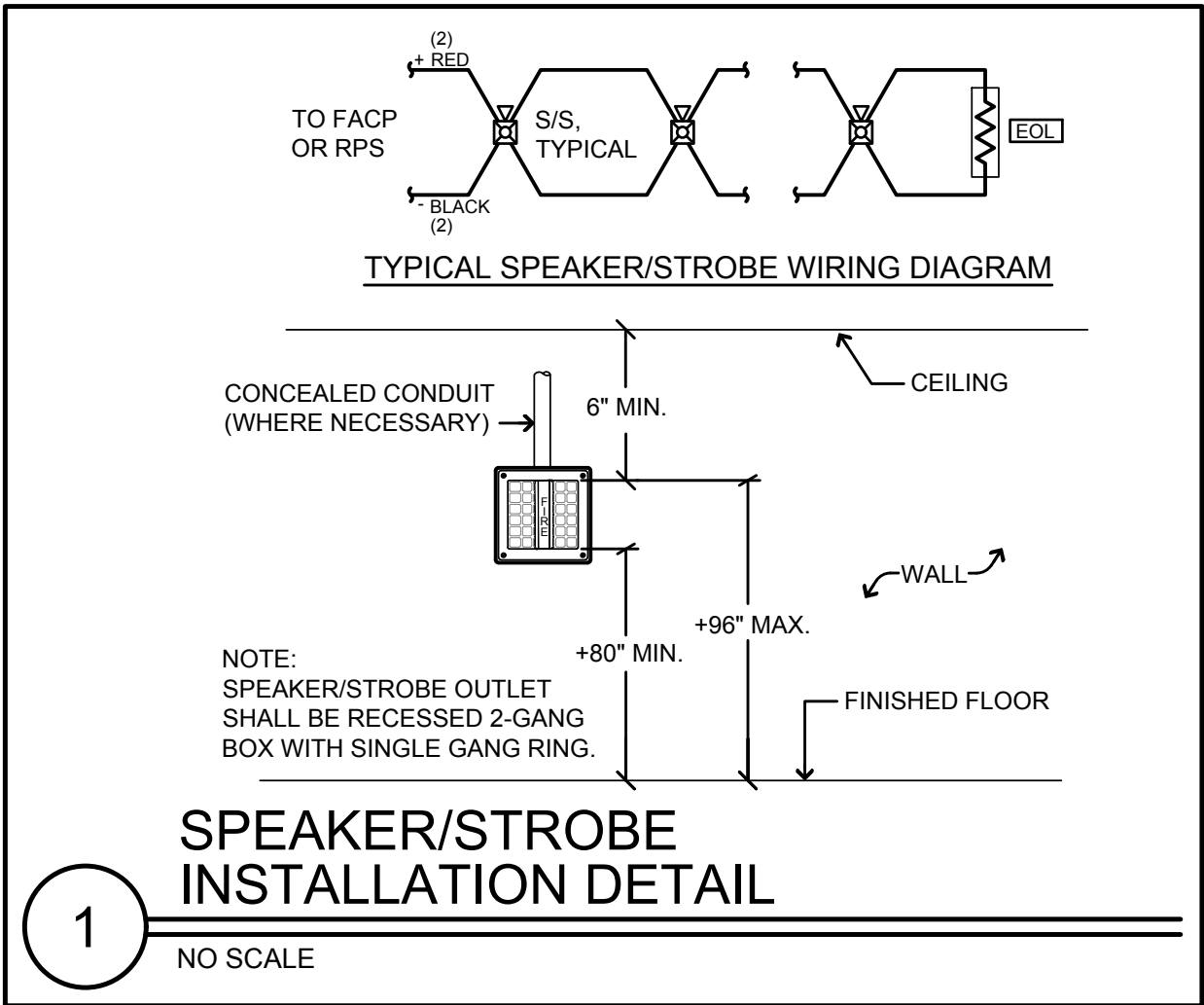
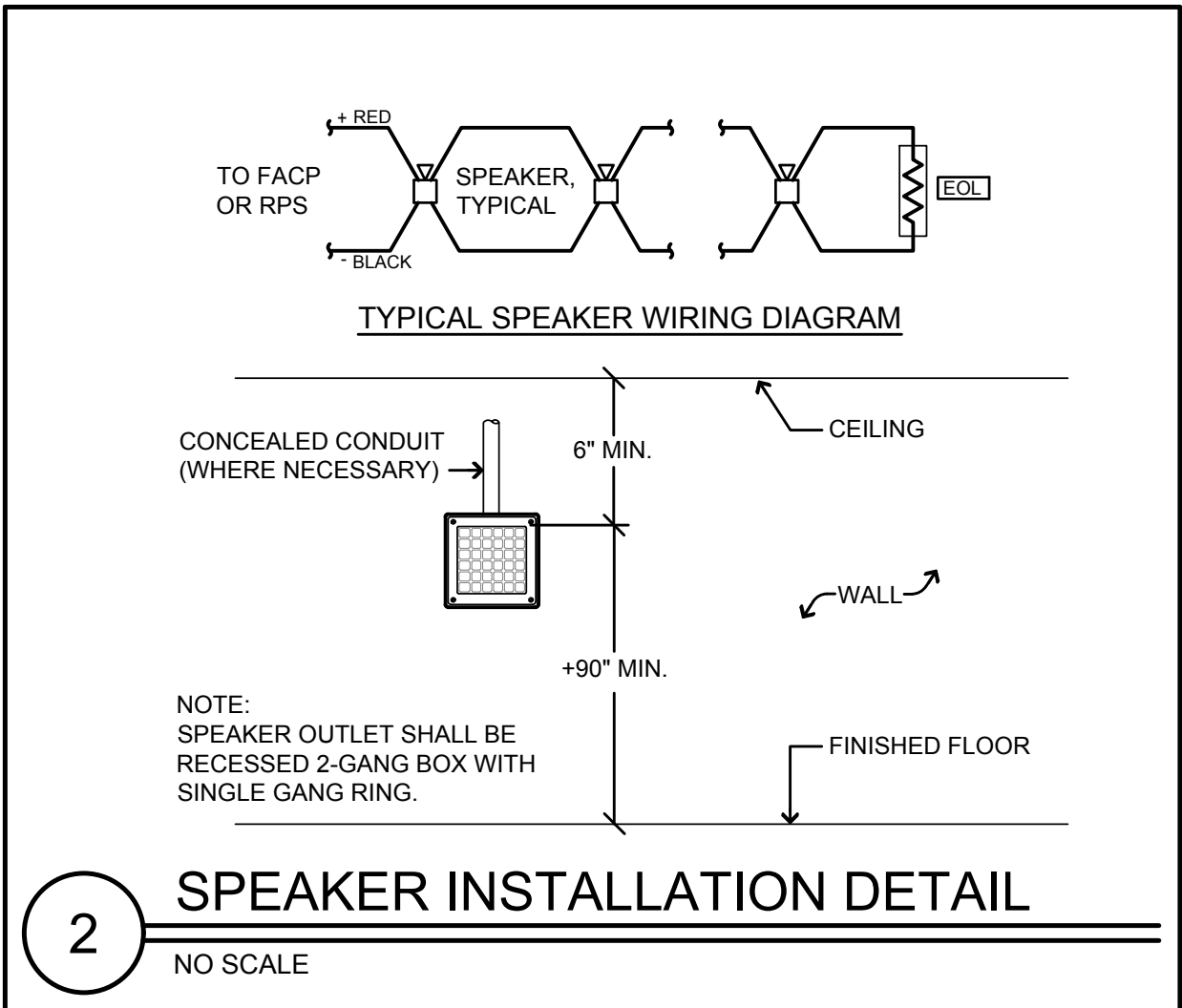
### SECTION 26 28 16

#### CIRCUIT BREAKERS

##### PART 1 - PRODUCTS

- 1.01 Circuit Breaker: Each circuit breaker shall consist of the following:
- A molded case breaker with an over center toggle-type mechanism, providing quick make, quick-break action. Each circuit breaker shall have a permanent trip unit containing individual thermal and magnetic trip elements in each pole. Multiple circuit breakers shall have variable magnetic trip elements which are set by a single adjustment to assure uniform tripping characteristics in each pole. Circuit breakers shall be of the bolt-on type unless otherwise noted.
  - Breaker shall be calibrated for operation in an ambient temperature of 40°C.
  - Each circuit breaker shall have trip indication by handle position and shall be trip-free.
  - Three pole breakers shall be common trip.
  - The circuit breakers shall be constructed to accommodate the supply connection at either end of the circuit breaker. Circuit breaker shall be suitable for mounting and operation in any position.
  - Breakers shall be rated as shown on Drawings.
  - Circuit breaker and/or fuse/circuit breaker combinations for series connected interrupting ratings shall be listed by UL as recognized component combinations for use in the end use equipment in which it is installed. Any series rated combination used shall be marked on the end use equipment per CEC section 110-2.2.
  - Breakers shall be UL listed. Circuit breakers shall have removable lugs.
  - Lugs shall be UL listed for copper and aluminum conductors.
  - Breakers shall be UL listed for installation of mechanical screw type lugs.
  - Circuit breakers serving HACR rated loads shall be HACR type. Circuit breakers serving other motor loads shall be motor rated.
  - Breakers indicated as "current limiting" (CL) shall be of the non-fused type, Square D I-Limiter, Westinghouse LMI-R, or ITE Sentron only.

| FIRE ALARM EQUIPMENT LIST |                                                                                                                                                                                                                                   |                    |                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|
| SYMBOL                    | DESCRIPTION AND MODEL NUMBER                                                                                                                                                                                                      | MFGR'S PART No.    | CSFM LISTING                            |
| (E) [FACP]                | EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL FIRE-LITE MS-9600.                                                                                                                                                                  | MS-9600            | 7165-0075.0217                          |
| (E) [ECC]                 | EXISTING EMERGENCY FIRE/VOICE EVACUATION COMMAND CENTER WITH MICROPHONE. FIRE-LITE ECC SERIES.                                                                                                                                    | ECC-50/100         | 6911-0075.0226                          |
| (E) [RPS]                 | EXISTING REMOTE POWER SUPPLY, FIRE-LITE 24FS8 SERIES.                                                                                                                                                                             | FCPS-24FS8         | 7315-0075.0206                          |
| (E) [SD35]                | EXISTING ADDRESSABLE PHOTO ELECTRIC FIRE ALARM SMOKE DETECTOR AND BASE, FIRE-LITE SD355 SERIES.                                                                                                                                   | SD335 B21LP (BASE) | 7272-0075.0194<br>7300-1653.0109 (BASE) |
| (E) [H355HT]              | EXISTING ADDRESSABLE HIGH TEMPERATURE HEAT DETECTOR AND BASE, 190° FIXED TEMPERATURE, FIRE-LITE H355 SERIES.                                                                                                                      | H355HT             | 7270-0075.0195<br>7300-1653.0109 (BASE) |
| (E) [CRF]                 | EXISTING ADDRESSABLE CONTROL MODULE, FIRE-LITE CRF SERIES.                                                                                                                                                                        | CRF-300            | 7300-0075.0185                          |
| (E) [MMF]                 | EXISTING ADDRESSABLE MONITOR MODULE, FIRE-LITE MMF SERIES.                                                                                                                                                                        | MMF-300            | 7300-0075.0185                          |
| [SPSWLED]                 | WALL MOUNTED MULTI-CANDELA SPEAKER-STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75, 95 & 177 CANDELA SETTINGS WITH VOLTAGE SETTING OF 70.7 VRMS AND POWER SETTINGS OF 1/2, 1 & 2 WATTS, SYSTEM SENSOR SPSWLED SERIES. | SPSWLED            | 7125-1653.0532                          |
| [WP]                      | WALL MOUNTED WEATHERPROOF FIRE ALARM/VOICE EVACUATION SPEAKER, SYSTEM SENSOR SPECTRALRERT SERIES.                                                                                                                                 | SPRK               | 7320-1653.0201                          |
| [SWLED]                   | WALL MOUNTED MULTI-CANDELA, STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75 AND 110 CANDELA, SYSTEM SENSOR SWLED SERIES.                                                                                              | SWLED              | 7300-1653.0525                          |
| [EOL]                     | END OF LINE DEVICE.                                                                                                                                                                                                               |                    |                                         |



- ### FIRE ALARM GENERAL NOTES
- 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 ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
  - 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".
  - THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
  - 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.
  - EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
  - AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
  - AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
  - 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.
  - WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
  - APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
  - FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR), BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
  - POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
  - 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 UUBS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
  - EXISTING FIELD DEVICES AND FACP SHALL REMAIN IN PLACE UNTIL NEW FIELD DEVICES ARE IN PLACE AND NEW WIRING HAS BEEN HOMERAN TO NEW LOCATION OF FACP. CONTRACTOR SHALL COORDINATE WITH SCHOOL DISTRICT TO PROVIDE AN APPROVED 24 HOUR FIRE WATCH UNTIL NEW FIRE ALARM SYSTEM IS OPERATIONAL.
  - CONTRACTOR SHALL PROGRAM FIRE ALARM CONTROL PANEL/UNIT FOR ALL DEVICES TO BE ADDRESSED AND LOCATIONS TO APPEAR ON PANEL AND REPORT TO MONITORING AGENCY WITH PHYSICAL LOCATION DESCRIPTION AND ADDRESS OF DEVICES.
  - ALL USERS OF SYSTEMS THAT HAVE MICROPHONES FOR LIVE VOICE ANNOUNCEMENTS SHALL BE PROVIDED WITH POSTED INSTRUCTIONS OF USING THE MICROPHONE PER NFPA 72, SECTION 24.3.2.
  - AUDIBLE APPLIANCES SHALL PROVIDE 15-dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED CBC 907.5.2.1.1.
  - THE GROUP E BUILDINGS WERE CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE AND WILL NOT REQUIRE CARBON MONOXIDE DETECTION PER CBC SECTION 503.15.1.
  - SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER NFPA 72, SECTION 29.11.3.4(7).

| FIRE ALARM SYSTEM OPERATIONAL MATRIX                             |               |                      |                             |                     |                 |                        |                               |                       |                     |                            |                                   |                           |         |
|------------------------------------------------------------------|---------------|----------------------|-----------------------------|---------------------|-----------------|------------------------|-------------------------------|-----------------------|---------------------|----------------------------|-----------------------------------|---------------------------|---------|
| CAUSE                                                            | ALARM         |                      |                             |                     | TROUBLE         |                        |                               |                       | SUPERVISORY         |                            |                                   |                           | REMARKS |
|                                                                  | ALARM AT FACP | ALARM AT ANNUNCIATOR | ALARM AT OFF-SITE REPORTING | ALARM AT AUTOMATICS | TROUBLE AT FACP | TROUBLE AT ANNUNCIATOR | TROUBLE AT OFF-SITE REPORTING | TROUBLE AT AUTOMATICS | SUPERVISORY AT FACP | SUPERVISORY AT ANNUNCIATOR | SUPERVISORY AT OFF-SITE REPORTING | SUPERVISORY AT AUTOMATICS |         |
| SMOKE DETECTORS                                                  | •             | •                    | •                           | •                   |                 |                        |                               |                       |                     |                            |                                   |                           |         |
| HEAT DETECTORS                                                   | •             | •                    | •                           | •                   |                 |                        |                               |                       |                     |                            |                                   |                           |         |
| SIGNAL SILENCE                                                   |               |                      |                             |                     |                 |                        |                               |                       | •                   | •                          | •                                 | •                         |         |
| SYSTEM RESET                                                     |               |                      |                             |                     |                 |                        |                               |                       |                     |                            |                                   |                           |         |
| MANUAL PULL STATION                                              | •             | •                    | •                           | •                   |                 |                        |                               |                       |                     |                            |                                   |                           |         |
| AC POWER FAILURE                                                 |               |                      |                             |                     | •               | •                      | •                             |                       |                     |                            |                                   |                           |         |
| TROUBLE (OPEN, SHORTS, GROUNDS) ON INITIATION OR SIGNAL CIRCUITS |               |                      |                             |                     | •               | •                      | •                             |                       |                     |                            |                                   |                           |         |

### SYMBOLS & ABBREVIATIONS

**SYMBOLS**

— CONDUIT - CONCEALED IN WALLS OR CEILING.

— CONDUIT - IN OR BELOW FLOOR: 3/4" MIN.

— CONDUIT CONTINUATION.

201 ROOM NUMBER.

2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.

2 E1 DETAIL OR SECTION DESIGNATION.

**ABBREVIATIONS**

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

**TYPICAL ZONE NOMENCLATURE**

"S2" DENOTES SIGNAL CIRCUIT #2

"75CD" DENOTES CANDELA RATING

"4" DENOTES DEVICE #4

"M" DENOTES MODULE DEVICE; "D" DENOTES DETECTOR DEVICE

"1" DENOTES LOOP#

"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:  
RECONNECT EXISTING ADDRESSABLE AUTOMATIC FIRE ALARM/VOICE EVACUATION SYSTEM TO EXISTING BUILDING BEING EFFECTED BY BUILDING "F" DEMOLITION. REPLACE EXISTING SPEAKERS/SPEAKER STROBES WITH SPEAKERS/SPEAKER STROBES IN BUILDING "E".

SYSTEM DESCRIPTION:  
SLC = CLASS B / STYLE 4  
IDC = CLASS B / STYLE B  
NAC = CLASS B / STYLE Y

### FACP RESETTING PROCEDURE

FIRE-LITE MS-9600

POST RESETTING PROCEDURE NEAR EACH FACP & ANNUNCIATORS (NFPA 72 23.8.2.9.3).

PRESSING AND RELEASING THE RESET KEY TURNS OFF ALL CONTROL MODULES AND NACS. TEMPORARILY TURNS OFF RESETTABLE POWER TO 4-WIRE DETECTORS. CAUSES A RESET IN SYSTEM MESSAGE TO BE DISPLAYED ON THE LCD AND SENDS THE SAME MESSAGE TO THE PRINTER AND HISTORY FILE. IT ALSO PERFORMS A LAMP TEST BY TURNING ON ALL LEDS (EXCEPT THE GROUND LED) PIEZO SOUNDER AND LCD DISPLAY SEGMENTS AFTER THE RESET KEY IS RELEASED. ANY ALARM OR TROUBLE THAT EXISTS AFTER A RESET WILL RESOUND THE SYSTEM

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DIV. OF THE STATE ARCHITECT  
APP: 01-122416 INC:  
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DATE: 11/12/2025

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## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950

REGISTERED PROFESSIONAL ENGINEER  
EDBRIDGE O. BETTER  
No. E17789  
EXP. 6/30/16  
ELECTRICAL  
STATE OF CALIFORNIA

**AURUM CONSULTING ENGINEERS**  
MONTEREY BAY, INC.

Project No. 25-123.00

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Drawing Title:  
**F.A. SYMBOLS, ABBRE.,  
EQUIPMENT LIST,  
OPERATIONAL MATRIX,  
DETAILS & NOTES**

Scale: Sheet:

## FA001

Revision:

Date: March, 2025 Job Number: 1720.02

# BATTERY & VOLTAGE DROP CALCULATIONS

VOLTAGE DROP (VD) CALCULATION - VISUAL CIRCUIT No.1

| DEVICE #             | 1st   | 2nd   | 3rd   | 4th   | 5th   | 6th    | 7th   | 8th            | 9th   | 10th  | 11th  | 12th  | 13th  | 14th  |
|----------------------|-------|-------|-------|-------|-------|--------|-------|----------------|-------|-------|-------|-------|-------|-------|
| GAUGE WIRE           | 12    | 12    | 12    | 12    | 12    | 12     | 12    | 12             | 12    | 12    | 12    | 12    | 12    | 12    |
| DISTANCE (F.T.)      | 60    | 60    | 30    | 15    | 30    | 30     | 30    | 35             | 35    | 60    | 30    | 35    | 40    | 25    |
| AMPS OF DEVICE       | 0.158 | 0.066 | 0.066 | 0.066 | 0.066 | 0.066  | 0.066 | 0.066          | 0.158 | 0.018 | 0.07  | 0.018 | 0.018 | 0.07  |
| TOTAL AMPS@DEV.      | 0.972 | 0.814 | 0.748 | 0.682 | 0.616 | 0.55   | 0.484 | 0.418          | 0.352 | 0.194 | 0.176 | 0.106 | 0.088 | 0.07  |
| VOLT. DROP @ DEV.    | 0.193 | 0.215 | 0.074 | 0.034 | 0.061 | 0.055  | 0.048 | 0.048          | 0.041 | 0.039 | 0.017 | 0.012 | 0.012 | 0.006 |
| TOTAL CIRCUIT AMPS = | 0.972 |       |       | WIRE  |       | RESIS. | CIRC. | FORMULA        |       |       |       |       |       |       |
| TOTAL VOLT. DROP =   | 0.855 |       |       | SIZE  |       | /M FT. | MILS. | 1" FEET * 21.6 |       |       |       |       |       |       |
| CKT VOLTAGE =        | 20.4  |       |       | 12    |       | 2.01   | 6530  | C.M.           |       |       |       |       |       |       |
| % VOLTAGE DROP =     | 4.2%  |       |       | 16    |       | 5.08   | 2590  |                |       |       |       |       |       |       |

| SPEAKER CIRCUIT No.1                 |        |        |         |                     |        |        |         |          |  |
|--------------------------------------|--------|--------|---------|---------------------|--------|--------|---------|----------|--|
| Nominal Speaker Voltage ( 25 or 70 ) |        |        |         | 25                  |        |        |         |          |  |
| Minimum Device Voltage               |        |        |         | 20                  |        |        |         |          |  |
| Total Circuit Current in amps        |        |        |         | 0.300               |        | Wire   |         | Ohm's    |  |
| Total Circuit Power                  |        |        |         | 7.500               |        | Gauge  |         | Per 1000 |  |
| Distance from source to 1st device   |        |        |         | 50                  |        | 14     |         | 3.07     |  |
| Wire Gauge for balance of circuit    |        |        |         |                     |        | 14     |         | 3.07     |  |
| Voltage                              |        |        |         |                     |        |        |         |          |  |
| Device                               | Device | Power  | device  | Current             | Device | source | Drop    | Percent  |  |
| Number                               | Power  | device | Current | Device              | source | Drop   | Percent |          |  |
| Device 1                             | 0.500  | 1000   | 0.020   | 23.16               | 1.842  | 7.37%  |         |          |  |
| Device 2                             | 0.500  | 80     | 0.020   | 23.02               | 1.980  | 7.62%  |         |          |  |
| Device 3                             | 0.500  | 110    | 0.020   | 22.84               | 2.155  | 8.62%  |         |          |  |
| Device 4                             | 0.500  | 35     | 0.020   | 22.79               | 2.207  | 8.83%  |         |          |  |
| Device 5                             | 2.000  | 15     | 0.080   | 22.77               | 2.227  | 8.91%  |         |          |  |
| Device 6                             | 0.500  | 140    | 0.020   | 22.65               | 2.347  | 9.39%  |         |          |  |
| Device 7                             | 2.000  | 60     | 0.080   | 22.61               | 2.352  | 9.57%  |         |          |  |
| Device 8                             | 0.500  | 35     | 0.020   | 22.60               | 2.400  | 9.80%  |         |          |  |
| Device 9                             | 0.500  | 30     | 0.020   | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| END                                  | 0.000  |        |         | 22.60               | 2.404  | 9.82%  |         |          |  |
| Totals                               | 7.500  | 1505   |         | End of Line Voltage | 22.60  |        |         |          |  |

| Point to Point Method    |          |                     | End of Line Method       |                     |         | Load Centering Method    |          |        |
|--------------------------|----------|---------------------|--------------------------|---------------------|---------|--------------------------|----------|--------|
| CIRCUIT IS WITHIN LIMITS |          |                     | CIRCUIT IS WITHIN LIMITS |                     |         | CIRCUIT IS WITHIN LIMITS |          |        |
| Totals                   | Voltage  | Totals              | Voltage                  | Totals              | Voltage | Totals                   | Voltage  | Totals |
| Current                  | Distance | Drop                | Current                  | Distance            | Drop    | Current                  | Distance | Drop   |
| 0.300                    | 1505     | 2.40                | 0.300                    | 1505                | 2.772   | 0.300                    | 1505     | 1.386  |
| End of Line Voltage      | 22.60    | End of Line Voltage | 22.23                    | End of Line Voltage | 23.61   | End of Line Voltage      | 23.61    |        |
| Percent Drop             | 9.62%    | Percent Drop        | 11.19%                   | Percent Drop        | 5.54%   | Percent Drop             |          |        |

BATTERY CALCULATION - Fire Lite MS9600

| QTY                             | MODEL            | NO. | DESCRIPTION                                                   | STANDBY | ALARM  |        |        |
|---------------------------------|------------------|-----|---------------------------------------------------------------|---------|--------|--------|--------|
|                                 |                  |     |                                                               | EACH    | TOTAL  | EACH   | TOTAL  |
| 1                               | Fire Lite MS9600 |     | EXISTING CONNECTIONS FOR ADDRESSABLE FIRE ALARM CONTROL PANEL | 0.2380  | 0.2380 | 0.4110 | 0.4110 |
| 15                              | SD355            |     | EXISTING ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR             | 0.0003  | 0.0051 | 0.0003 | 0.0051 |
| 17                              | HT355            |     | EXISTING ADDRESSABLE THERMAL HEAT DETECTOR                    | 0.0003  | 0.0058 | 0.0003 | 0.0058 |
| 2                               | BMF-300          |     | EXISTING ADDRESSABLE MONITOR MODULE                           | 0.0004  | 0.0008 | 0.0006 | 0.0012 |
| 2                               | CRF-300          |     | EXISTING ADDRESSABLE RELAY MODULE                             | 0.0004  | 0.0008 | 0.0006 | 0.0012 |
| PANEL STANDBY CURRENT           |                  |     |                                                               | 0.2505  |        |        |        |
| PANEL ALARM CURRENT             |                  |     |                                                               |         | 0.4243 |        |        |
| TOTAL SYSTEM CURRENT            |                  |     |                                                               |         |        |        |        |
| DESCRIPTION                     |                  |     |                                                               | STANDBY | ALARM  |        |        |
| TOTAL STANDBY CURRENT (A)       |                  |     |                                                               | 0.2505  |        |        |        |
| X 24 HOUR STANDBY               |                  |     |                                                               |         | 6.0115 |        |        |
| TOTAL ALARM CURRENT (B)         |                  |     |                                                               |         |        | 0.4243 |        |
| 15 MINUTES OF ALARM (X .25)     |                  |     |                                                               |         |        | 0.0352 |        |
| TOTAL BATTERY REQUIREMENT (A+B) |                  |     |                                                               |         |        | 6.0467 |        |
| SAFETY MARGIN (25%)             |                  |     |                                                               |         |        | 7.5584 |        |
| BATTERY SUPPLIED (2) 12V        |                  |     |                                                               |         |        | 15AH   |        |

BATTERY CALCULATION RPS

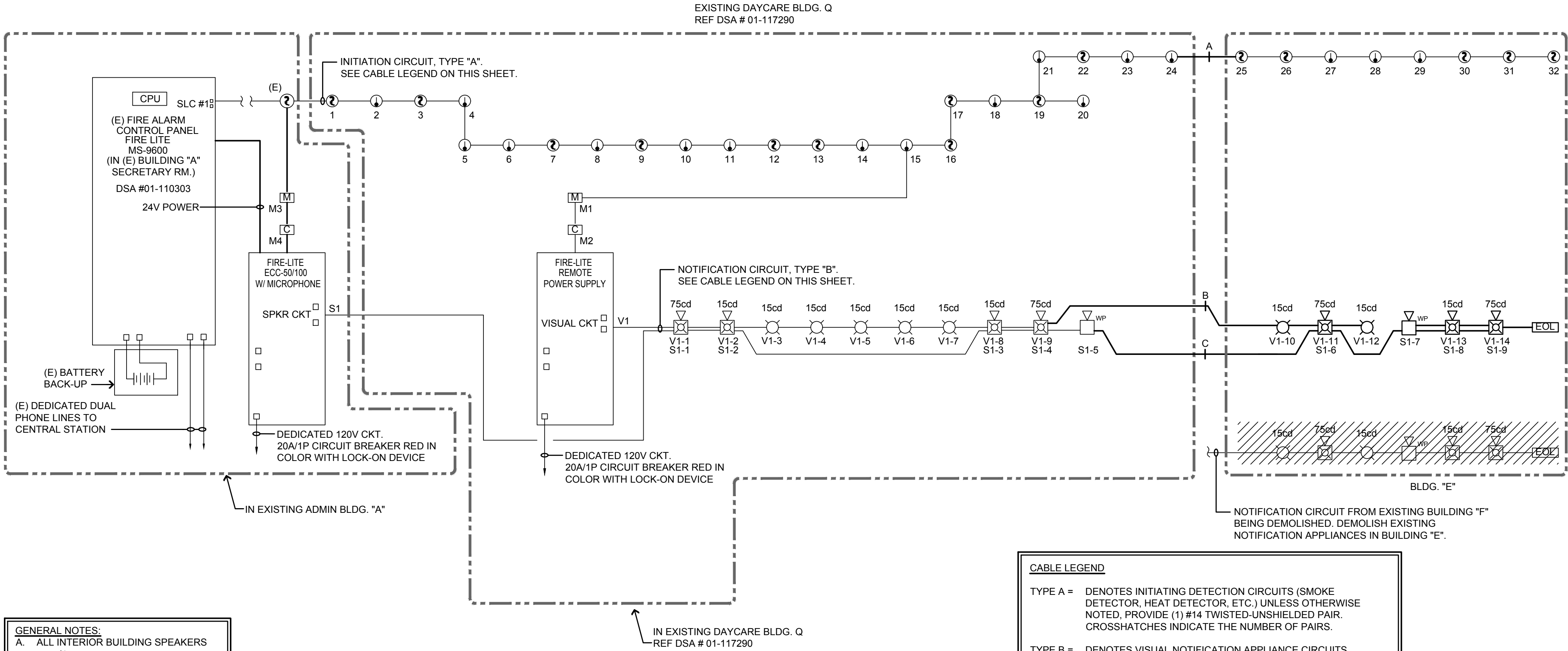
| QTY                             | MODEL No. | DESCRIPTION                           | STANDBY | ALARM  |        |        |  |
|---------------------------------|-----------|---------------------------------------|---------|--------|--------|--------|--|
|                                 |           |                                       | EACH    | TOTAL  | EACH   | TOTAL  |  |
| 1                               | FCPS-2458 | EXISTING NOTIFIER REMOTE POWER SUPPLY | 0.0750  | 0.0750 | 0.0750 | 0.0750 |  |
| 1                               | V1        | VISUAL CIRCUIT No.1                   | 0.0000  | 0.0000 | 0.9700 | 0.9700 |  |
| 1                               | SPARE     | SPARE                                 | 0.0000  | 0.0000 | 0.0000 | 0.0000 |  |
| 1                               | SPARE     | SPARE                                 | 0.0000  | 0.0000 | 0.0000 | 0.0000 |  |
| 1                               | SPARE     | SPARE                                 | 0.0000  | 0.0000 | 0.0000 | 0.0000 |  |
| PANEL STANDBY CURRENT           |           |                                       |         | 0.0750 |        |        |  |
| PANEL ALARM CURRENT             |           |                                       |         |        | 1.0470 |        |  |
| TOTAL SYSTEM CURRENT            |           |                                       |         |        |        |        |  |
| DESCRIPTION                     |           |                                       | STANDBY | ALARM  |        |        |  |
| TOTAL STANDBY CURRENT (A)       |           |                                       | 0.0750  |        |        |        |  |
| X 24 HOUR STANDBY               |           |                                       |         | 1.8000 |        |        |  |
| TOTAL ALARM CURRENT (B)         |           |                                       |         |        | 1.5470 |        |  |
| 15 MINUTES OF ALARM (X .25)     |           |                                       |         |        | 0.3818 |        |  |
| TOTAL BATTERY REQUIREMENT (A+B) |           |                                       |         |        | 2.0818 |        |  |
| SAFETY MARGIN (25%)             |           |                                       |         |        | 2.5772 |        |  |
| BATTERY SUPPLIED (2) 7AH        |           |                                       |         |        | 7AH    |        |  |

BATTERY CALCULATION ECC-50/100

| QTY                             | MODEL           | NO. | DESCRIPTION                         | STANDBY | ALARM  |        |        |
|---------------------------------|-----------------|-----|-------------------------------------|---------|--------|--------|--------|
|                                 |                 |     |                                     | EACH    | TOTAL  | EACH   | TOTAL  |
| 1                               | ECC-50/100      |     | EXISTING EMERGENCY VOICE EVAC PANEL | 0.2720  | 0.2720 | 0.4460 | 0.4460 |
| 1                               | SPEAKER CKT #S1 |     | WALL MOUNTED SPEAKERS CIRCUIT #1    | 0.0000  | 0.0000 | 0.3000 | 0.3000 |
| PANEL STANDBY CURRENT           |                 |     |                                     | 0.2720  |        |        |        |
| PANEL ALARM CURRENT             |                 |     |                                     |         | 0.7460 |        |        |
| TOTAL SYSTEM CURRENT            |                 |     |                                     |         |        |        |        |
| DESCRIPTION                     |                 |     |                                     | STANDBY | ALARM  |        |        |
| TOTAL STANDBY CURRENT (A)       |                 |     |                                     | 0.2720  |        |        |        |
| X 24 HOUR STANDBY               |                 |     |                                     |         | 6.5280 |        |        |
| TOTAL ALARM CURRENT (B)         |                 |     |                                     |         |        | 0.7460 |        |
| 15 MINUTES OF ALARM (X .25)     |                 |     |                                     |         |        | 0.1865 |        |
| TOTAL BATTERY REQUIREMENT (A+B) |                 |     |                                     |         |        | 6.7145 |        |
| SAFETY MARGIN (25%)             |                 |     |                                     |         |        | 8.5031 |        |
| BATTERY SUPPLIED (2) 12V        |                 |     |                                     |         |        | 18AH   |        |

AMPLIFIER WATTAGE CALCULATION FOR AMPLIFIER

| QTY                     | MODEL No.   | DESCRIPTION                                   | EACH    |  |
|-------------------------|-------------|-----------------------------------------------|---------|--|
| 1                       | ECC-50W-70V | EXISTING 50 WATT DIGITAL AUDIO AMPLIFIER      | 50.0000 |  |
| 1                       | S1          | WATTAGE OF SPEAKERS CONNECTED TO THIS CIRCUIT | 7.5000  |  |
| 1                       | SPARE       | SPARE                                         | 0.0000  |  |
| TOTAL WATTAGE AVAILABLE |             |                                               | 42.5000 |  |



GENERAL NOTES:  
A. ALL INTERIOR BUILDING SPEAKERS ARE 1/2 WATT EACH, TYP.  
B. ALL WEATHERPROOF EXTERIOR SPEAKERS ARE 2 WATTS EACH, TYP.  
C. U.O.N, ALL CONNECTIONS & EQUIPMENT SHOWN IS EXISTING.

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 VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

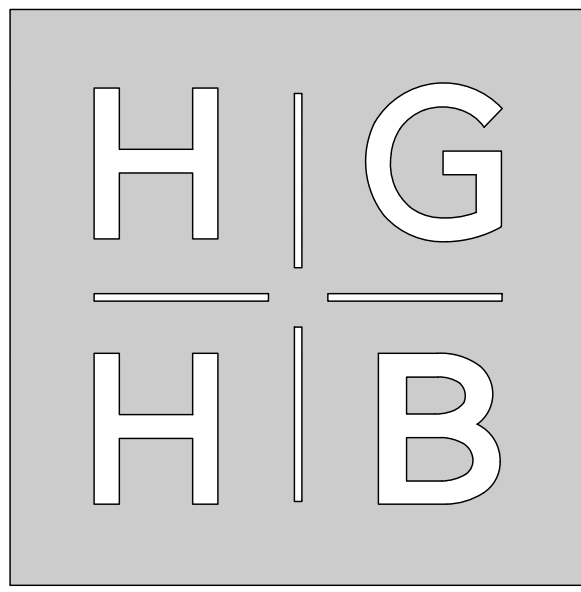
TYPE C = DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

RISER DIAGRAM LEGEND

+++++ (DEMOLISH)  
\_\_\_\_\_ (EXISTING)  
\_\_\_\_\_ (NEW)

# 1 FIRE ALARM RISER DIAGRAM NO SCALE

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## BUILDING 'F' DEMOLITION

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Drawing Title:  
FIRE ALARM RISER  
DIAGRAM, BATTERY &  
VOLTAGE DROP  
CALCULATIONS.  
Scale: Sheet:

FA101

Revision:

Date: March, 2025 Job Number: 1720.02

SHEET NOTES

1. SEE SHEET E201 FOR REQUIREMENTS.

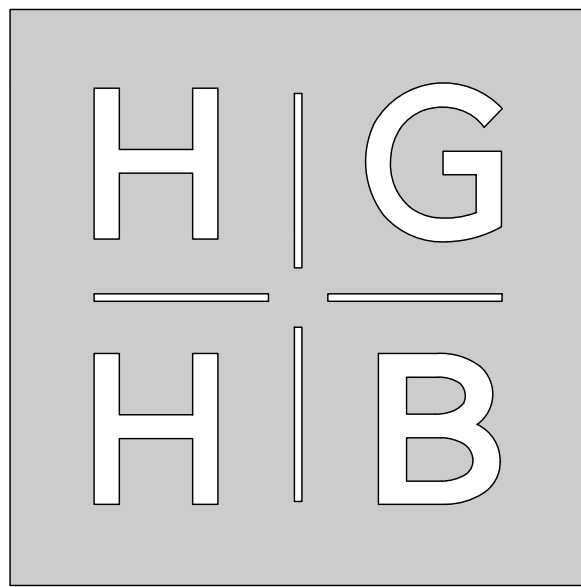
GENERAL NOTES:

- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
- B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS. CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- C. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- D. CONTRACTOR SHALL ENSURE QUANTITY OF CONDUCTORS/CABLES INSTALLED IN CONDUITS DO NOT EXCEED 40% CONDUIT FILL (MAXIMUM) PER CEC SECTION 300.17.

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 VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE C = DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

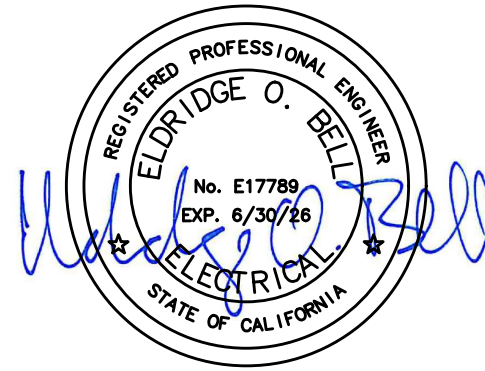
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BUILDING 'F'  
DEMOLITION

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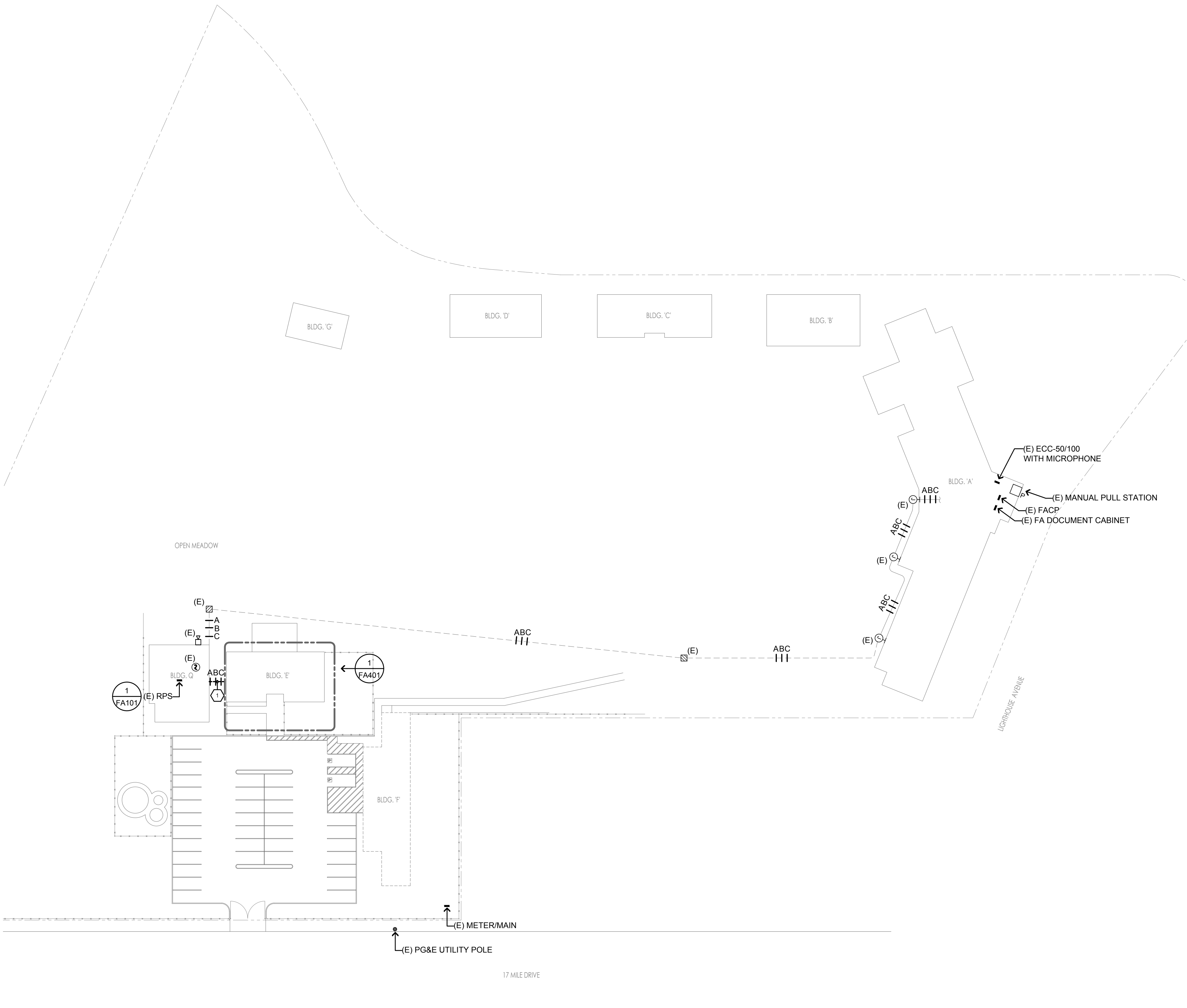
Drawing Title:  
FIRE ALARM SITE PLAN

Scale: Sheet:

FA201

Revision:

Date: March, 2025 Job Number: 1720.02



SHEET NOTES

1. PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
2. SEE FIRE ALARM SITE PLAN ON SHEET FA201 FOR CONTINUATION.

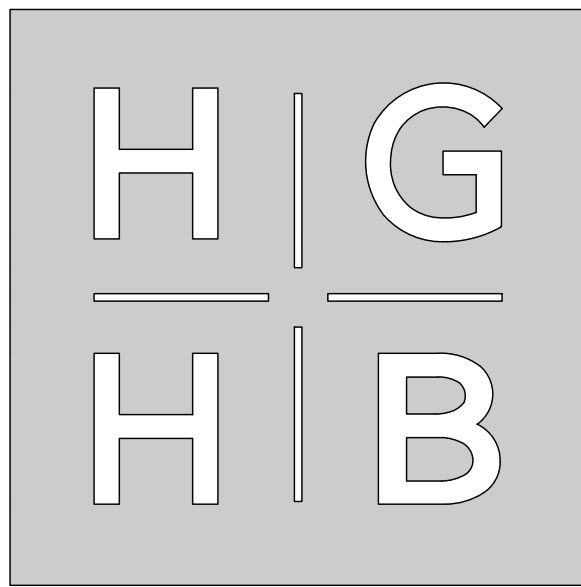
CABLE LEGEND

- 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 VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE C = DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

GENERAL NOTES:

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- C. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO DISTRICT.
- D. FOR MOUNTING AND WIRING OF INITIATING DEVICES AND NOTIFICATION APPLIANCES SEE SHEET FA001.
- E. CONTRACTOR SHALL ENSURE QUANTITY OF CONDUCTORS/CABLES INSTALLED IN CONDUITS DO NOT EXCEED 40% CONDUIT FILL (MAXIMUM) PER CEC SECTION 300.17.

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BUILDING 'F'  
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PACIFIC GROVE ADULT EDUCATION  
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Project No. 25-123.00

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Drawing Title:  
FIRE ALARM FLOOR PLAN  
BUILDING "E"

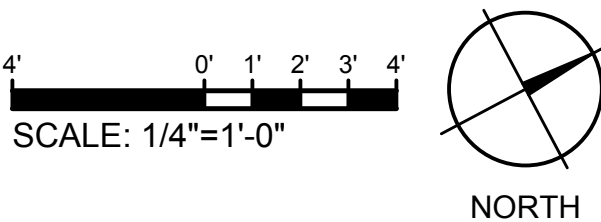
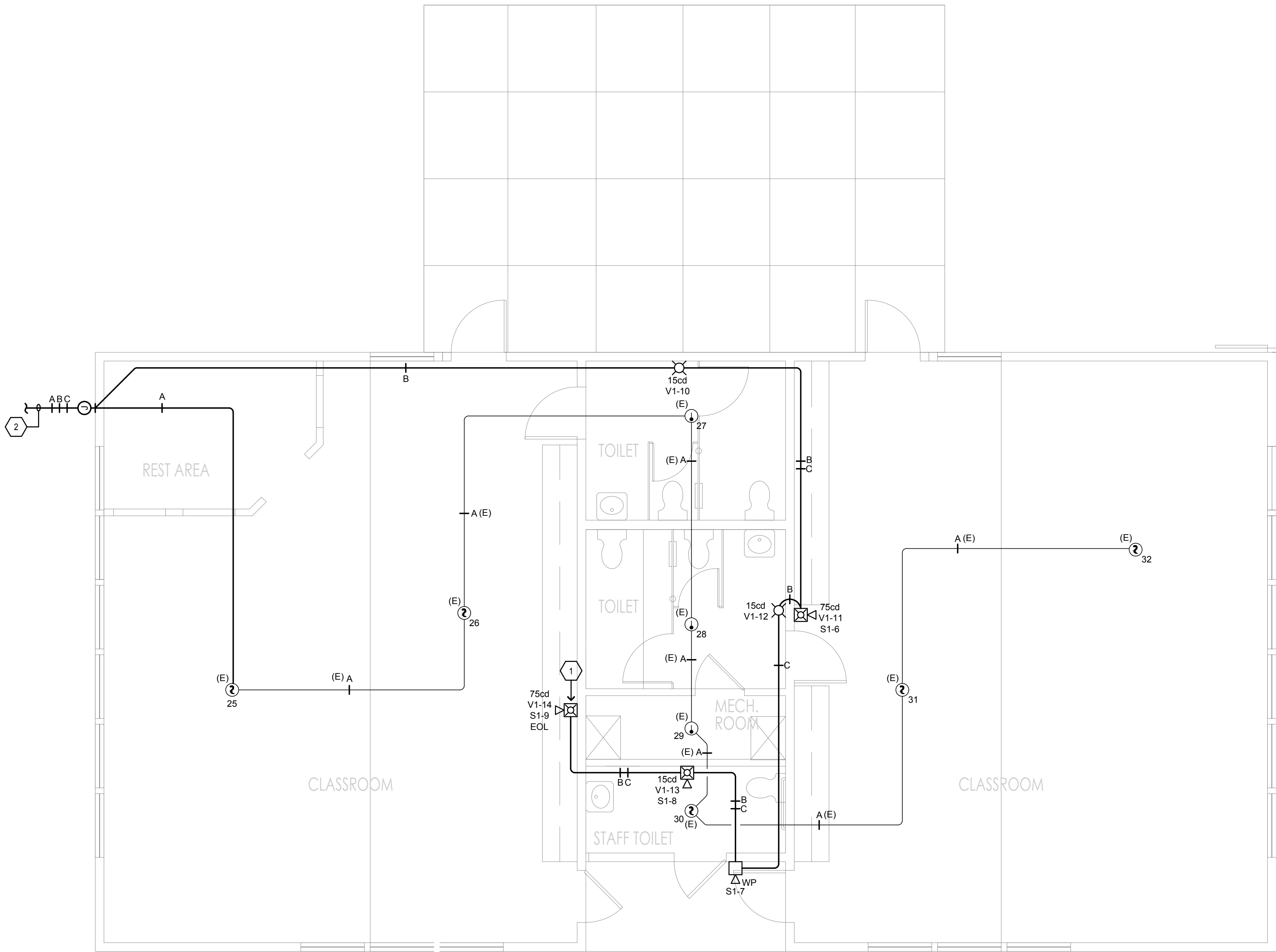
Scale: Sheet:

FA401

Revision:

Date: March, 2025

Job Number: 1720.02



FIRE ALARM SPECIFICATIONS

SECTION 16720 - FIRE ALARM SYSTEM

PART 1 - GENERAL

- 1.01 DESCRIPTION OF WORK:
- A. FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT INCLUDING ALL REQUIRED EQUIPMENT, PANELS, RACEWAYS, CONDUCTORS AND CONNECTIONS, AND PROVIDE ALL LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE MODIFICATIONS OF THE EXISTING ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING THE SYSTEMS. IT IS IN THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS WILL BE COMPLETE, AND READY FOR OPERATION. NO EXTRA CHARGE WILL BE PAID FOR FURNISHING ITEMS REQUIRED BY REGULATIONS, BUT NOT SPECIFIED HEREIN, OR ON DRAWINGS.
- B. CONTRACTOR SHALL INCLUDE ALL COSTS TO DE-COMMISSION THE EXISTING SYSTEM BEFORE ANY NEW CONSTRUCTION CAN START. THE DISTRICT SHALL BE ADVISED IN WRITING THE DATE AS TO WHEN THE EXISTING SYSTEM WILL BE DE-COMMISSIONED. THE CONTRACTOR SCOPE OF WORK SHALL NOT DEGRADE ANY FUNCTION OR OPERATION OF THE REMAINING SITE FIRE ALARM SYSTEM.
- 1.02 CODES AND STANDARDS:
- A. DEVICES AND EQUIPMENT FOR FIRE ALARM SYSTEMS SHALL BE U.L. LISTED.
- B. UL 864 CONTROL UNITS, FIRE PROTECTIVE SIGNALING SYSTEMS.
- C. DEVICES AND EQUIPMENT FOR FIRE ALARM SYSTEM SHALL BE LISTED BY THE CALIFORNIA STATE FIRE MARSHAL FOR THE SPECIFIC PURPOSE THE DEVICE OR EQUIPMENT IS USED.
- D. WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND ACCORDING TO THE REQUIREMENTS OF THE LATEST VERSION OF THE BUILDING CODES AS NOTED ON DRAWINGS.
- 1.04 SUBMITTALS:
- A. SUBMIT THE FOLLOWING ITEMS:
1. MANUFACTURER'S CATALOG DATA: MANUFACTURER'S ORIGINAL CATALOG CUTS AND ORIGINAL DESCRIPTION OF DATA OF ALL MATERIAL AND EQUIPMENT WITH SUFFICIENT INFORMATION PROVIDED SO THAT THE EXACT FUNCTION OF EACH DEVICE IS KNOWN. EACH ITEM SUPPLIED SHALL BE CLEARLY IDENTIFIED INCLUDING BOTH U.L. NUMBER AND A COPY OF THE STATE FIRE MARSHAL'S LISTING.
- B. DESCRIPTION OF CONDUCTORS TO BE USED WITH A STATEMENT THAT ALL WIRE SHALL BE IN CONDUIT, WHERE ACCESSIBLE CEILING OCCURS, PLENUM RATED WIRE ON J-HOOKS IS ACCEPTABLE.
- 1.05 QUALITY ASSURANCE:
- A. INSTALLER: THE INSTALLATION FIRM SHALL BE AN ESTABLISHED COMMUNICATIONS AND ELECTRONICS CONTRACTOR WITH AT LEAST 5 YEARS SUCCESSFUL INSTALLATION EXPERIENCE OF PRODUCTS UTILIZING INTEGRATED COMMUNICATIONS SYSTEMS AND EQUIPMENT SPECIFIC TO THAT REQUIRED FOR THIS PROJECT. ONLY CALIFORNIA CERTIFIED FIRE ALARM TECHNICIANS OR CALIFORNIA CERTIFIED ELECTRICIAN SHALL BE USED TO INSTALL THE FIRE ALARM SYSTEM.
- B. ALL MATERIALS, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL ITEMS OF EQUIPMENT INCLUDING WIRE AND CABLE SHALL BE DESIGNED BY THE MANUFACTURER UNLESS OTHERWISE SPECIFIED, SHALL FUNCTION AS A COMPLETE SYSTEM AND SHALL BE ACCOMPANIED BY THE MANUFACTURER'S COMPLETE SERVICE NOTES AND DRAWINGS DETAILING ALL INTERCONNECTIONS.
- C. THE CONTRACTOR SHALL SHOW SATISFACTORY EVIDENCE, UPON REQUEST, THAT HE MAINTAINS A FULLY EQUIPPED SERVICE ORGANIZATION CAPABLE OF FURNISHING ADEQUATE INSPECTION AND SERVICE TO THE SYSTEM. THE CONTRACTOR SHALL MAINTAIN AT HIS FACILITY THE NECESSARY SPARE PARTS IN THE PROPER PROPORTION AS RECOMMENDED BY THE MANUFACTURER TO MAINTAIN AND SERVICE THE EQUIPMENT BEING SUPPLIED.
- D. THE SYSTEM MANUFACTURER SHALL MAINTAIN ENGINEERING AND SERVICE DEPARTMENTS CAPABLE OF RENDERING ADVICE REGARDING INSTALLATION AND FINAL ADJUSTMENT OF THE SYSTEM.
- 1.06 WARRANTIES:
- A. THE CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND WIRING FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECT FOR ONE YEAR (365 DAYS) FROM THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL WITHOUT ADDITIONAL EXPENSE TO THE OWNER, REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT PROVIDED BY HIM UNDER THIS CONTRACT WITHIN THE WARRANTY PERIOD.

PART 2 - PRODUCTS

- 2.01 FIRE ALARM CONTROL PANEL:
- A. THE FIRE ALARM CONTROL PANEL IS EXISTING TO REMAIN, SEE DRAWINGS FOR MODIFICATION OF THE EXISTING SYSTEM.
- 2.02 BATTERY CHARGER:
- A. BATTERY CHARGER IS EXISTING TO REMAIN. REPLACE EXISTING BATTERIES WITH NEW, SIZE AS NOTED ON THE DRAWINGS.
- 2.05 DETECTION DEVICES:
- A. DETECTORS: ARE EXISTING.
- 2.06 ALARM NOTIFICATION DEVICES: ARE NEW.

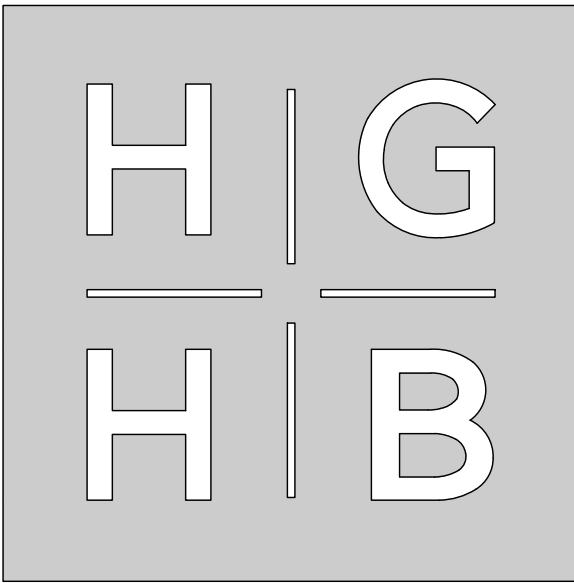
PART 3 - EXECUTION

- 3.01 INSTALLATION:
- A. EQUIPMENT, MATERIALS, INSTALLATION, WORKMANSHIP, INSPECTION, AND TESTING SHALL BE IN ACCORDANCE WITH THE NFPA PUBLICATIONS AND AS MODIFIED HEREIN.
- B. FOLLOW MANUFACTURER'S DIRECTIONS IN ALL CASES FOR INSTALLATION, TESTING AND ENERGIZING.
- C. ACCURATELY SET, LEVEL, SUPPORT, AND FASTEN ALL EQUIPMENT.
- D. CONDUIT WHERE EXPOSED SHALL BE INSTALLED PARALLEL WITH THE WALLS OR STRUCTURAL ELEMENTS; VERTICAL RUNS TO BE PLUMB; HORIZONTAL RUNS TO BE LEVEL OR PARALLEL WITH STRUCTURE; CONDUIT GROUPED NEATLY TOGETHER WITH STRAIGHT RUNS, ALL BENDS PARALLEL AND UNIFORMLY SPACED.
- E. EARTHQUAKE RESISTANT INSTALLATION/FASTENING OF ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO THE GENERAL REQUIREMENTS OF SECTION 1614A OF THE CALIFORNIA BUILDING CODE.

- 3.02 PRELIMINARY TESTS:
- A. CONDUCT THE FOLLOWING TESTS DURING INSTALLATION OF WIRING AND SYSTEM COMPONENTS. CORRECT DEFICIENCY PERTAINING TO THESE REQUIREMENTS PRIOR TO FORMAL FUNCTIONAL AND OPERATIONAL TESTS OF THE SYSTEM. PRELIMINARY TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY AND PROJECT INSPECTOR OF RECORD TO DETERMINE THE CONFORMANCE WITH THE SPECIFIED REQUIREMENTS.
- B. GROUND RESISTANCE: MEASURE THE RESISTANCE OF EACH CONNECTION TO GROUND. GROUND RESISTANCE SHALL NOT EXCEED 10 OHMS.
- C. DIELECTRIC STRENGTH INSULATION RESISTANCE: TEST THE DIELECTRIC STRENGTH AND THE INSULATING RESISTANCE OF THE SYSTEM INTERCONNECTING WIRING BY MEANS OF AN INSTRUMENT CAPABLE OF GENERATING 500 VOLTS OF DC AND EQUIPPED TO INDICATE LEAKAGE CURRENT 1000 MEGOHMS. FOR THE PURPOSE OF THIS TEST, CONNECT THE INSTRUMENT BETWEEN EACH CONDUCTOR ON THE LINE AND BETWEEN EACH CONDUCTOR AND GROUND AT THE CONTROL PANEL END OF THE LINE, WITH THE OTHER EXTREMITY OPEN CIRCUITED AND ALL SERIES-CONNECTED DEVICES IN PLACE. THE SYSTEM SHALL WITHSTAND THE TEST WITHOUT BREAKDOWN AND SHALL INDICATE A RESISTANCE OF NOT LESS THAN 1.0 MINUTE WITH A DC POTENTIAL OF NOT LESS THAN 100 VOLTS AND NOT MORE THAN 500 VOLTS.
- D. STANDBY BATTERY TEST: PRIOR TO FORMAL INSPECTION AND TESTS, PLACE THE FIRE ALARM SYSTEM ON STANDBY BATTERY POWER FOR 24 HOURS; IMMEDIATELY THEREAFTER, SOUND THE BUILDING EVACUATION ALARM SIGNALING DEVICES FOR 5 MINUTES. WHEN THE TEST IS COMPLETE, THE FIRE ALARM SYSTEM BATTERY CHARGER SHALL BE FULLY RECHARGED WITHIN 24 HOURS.
- E. FIELD INSPECTION AND TEST:
1. BEFORE FINAL ACCEPTANCE OF THE WORK, PRE-TEST SYSTEM TO DEMONSTRATE COMPLIANCE WITH THE CONTRACT REQUIREMENTS. SYSTEM SHALL BE SUBJECTED TO COMPLETE FUNCTIONAL AND OPERATIONAL TESTS, INCLUDING TESTS IN PLACE OF EACH DETECTOR. WHEN TESTS HAVE BEEN COMPLETED AND CORRECTIONS MADE, SUBMIT A SIGNED AND DATED NFPA CERTIFICATE OF COMPLETION ALONG WITH A COMPLETED TESTING MATRIX WITH THE REQUEST FOR FORMAL INSPECTION AND TESTS.
2. WHERE APPLICATION OF HEAT WOULD DESTROY A HEAT DETECTOR, IT MAY BE MANUALLY ACTIVATED.
3. VERIFY THE PROPER RECEIPT OF THE ALARM SIGNALS AT THE CENTRAL STATION FOR THE UDACT PROVIDE PRINTOUT OF TEST REPORTS. IT SHALL BE THE SOLE OBLIGATION OF THE CONTRACTOR TO COORDINATE AND TO PROVIDE ALL TESTING DOCUMENTATION FROM THE CENTRAL STATION.
4. THE COMMUNICATION LOOPS AND THE INDICATING APPLIANCE CIRCUITS SHALL BE OPENED IN AT LEAST TWO LOCATIONS PER ZONE TO CHECK FOR THE PRESENCE OF CORRECT SUPERVISORY CIRCUITRY.
5. PERFORM THE FIELD INSPECTION AND TEST IN THE PRESENCE OF THE MANUFACTURER'S REPRESENTATIVE, THE OWNER'S REPRESENTATIVE, LOCAL FIRE AUTHORITY AND PROJECT INSPECTOR OF RECORD (IOP).
6. TEST EQUIPMENT: IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO FURNISH TOOLS, INSTRUMENTS, AND MATERIALS REQUIRED FOR A THOROUGH TEST OF THE SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
- a. VOM METER
- b. MANUFACTURER'S RECOMMENDED SMOKE DETECTOR TESTING DEVICE AND SENSITIVITY TEST EQUIPMENT.
- c. HEAT SOURCE FOR TESTING HEAT DETECTORS.
- d. KEYS TO ALL CONTROL PANELS.
- e. LADDERS

- 3.03 PROJECT CLOSEOUT:
- A. AS BUILT DRAWINGS:
1. PROVIDE A COMPLETE SET (FULL SIZE SCALABLE) OF REPRODUCIBLE "AS-BUILT" AND AUTOCAD FORMAT DRAWINGS SHOWING INSTALLED WIRING, COLOR CODING, AND WIRE TAG NOTATIONS FOR EXACT LOCATIONS OF ALL INSTALLED EQUIPMENT, SPECIFIC INTERCONNECTIONS BETWEEN ALL EQUIPMENT, AND INTERNAL WIRING OF THE EQUIPMENT UPON COMPLETION OF SYSTEM.
- B. OPERATING AND INSTRUCTION MANUALS:
1. OPERATING AND INSTRUCTION MANUALS SHALL BE SUBMITTED PRIOR TO TESTING OF THE SYSTEM. FOUR COMPLETE SETS OF OPERATION AND INSTRUCTIONS MANUALS SHALL BE DELIVERED TO THE OWNER UPON REQUEST.
2. COMPLETE, ACCURATE, STEP-BY-STEP TESTING INSTRUCTIONS GIVING RECOMMENDED AND REQUIRED TESTING FREQUENCY OF ALL EQUIPMENT, METHODS FOR TESTING EACH INDIVIDUAL PIECE OF EQUIPMENT, AND TROUBLESHOOTING MANUAL EXPLAINING HOW TO TEST THE PRELIMINARY INTERNAL PARTS OR EACH PIECE OF EQUIPMENT SHALL BE DELIVERED UPON COMPLETION OF THE SYSTEM.
- C. MAINTENANCE INSTRUCTIONS SHALL BE COMPLETE, EASY TO READ, UNDERSTANDABLE, AND SHALL PROVIDE THE FOLLOWING INFORMATION:
1. INSTRUCTIONS ON REPLACING ANY COMPONENTS OF THE SYSTEM, INCLUDING INTERNAL PARTS.
2. INSTRUCTIONS ON PERIODIC CLEANING AND ADJUSTMENT OF EQUIPMENT WITH A SCHEDULE OF THESE FUNCTIONS.
3. A COMPLETE LIST OF ALL EQUIPMENT AND COMPONENTS WITH INFORMATION AS TO THE ADDRESS AND TELEPHONE NUMBER OF BOTH THE MANUFACTURER AND LOCAL SUPPLIER OF EACH ITEM.
4. USER OPERATING INSTRUCTIONS SHALL BE PROVIDED PROMINENTLY DISPLAYED ON A SEPARATE SHEET LOCATED NEXT TO THE CONTROL UNIT IN ACCORDANCE WITH U.L. STANDARD 864.

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Drawing Title:  
FIRE ALARM  
SPECIFICATIONS

Scale: Sheet:

FA701

Revision:

Date: March, 2025

Job Number: 1720.02

**Pacific Grove Unified School District**  
**435 Hillcrest Avenue, Pacific Grove, CA 93950**  
**Pacific Grove Adult School Building F Demo & Utility Relocation**  
**Notice to Bidders - Addendum 01**

Addendum Date: 09/10/2026

Addendum by: Ausonio Incorporated/Brailsford & Dunlavey

Attn: All Bidders

You are hereby notified of the following Additions/Deletions/Revisions to the Project Manual/Specifications and Drawings for this project, identified as Addendum 01.

Addendum 01 documents shall take precedence over the bidding documents previously issued.

Bidders shall acknowledge receipt and inclusion of Addendum 01 on their Bid Proposal.

AD01-01: Site Demolition Plan A1.1

Revised site demolition plan and details.

AD01-02: Plumbing P0.1

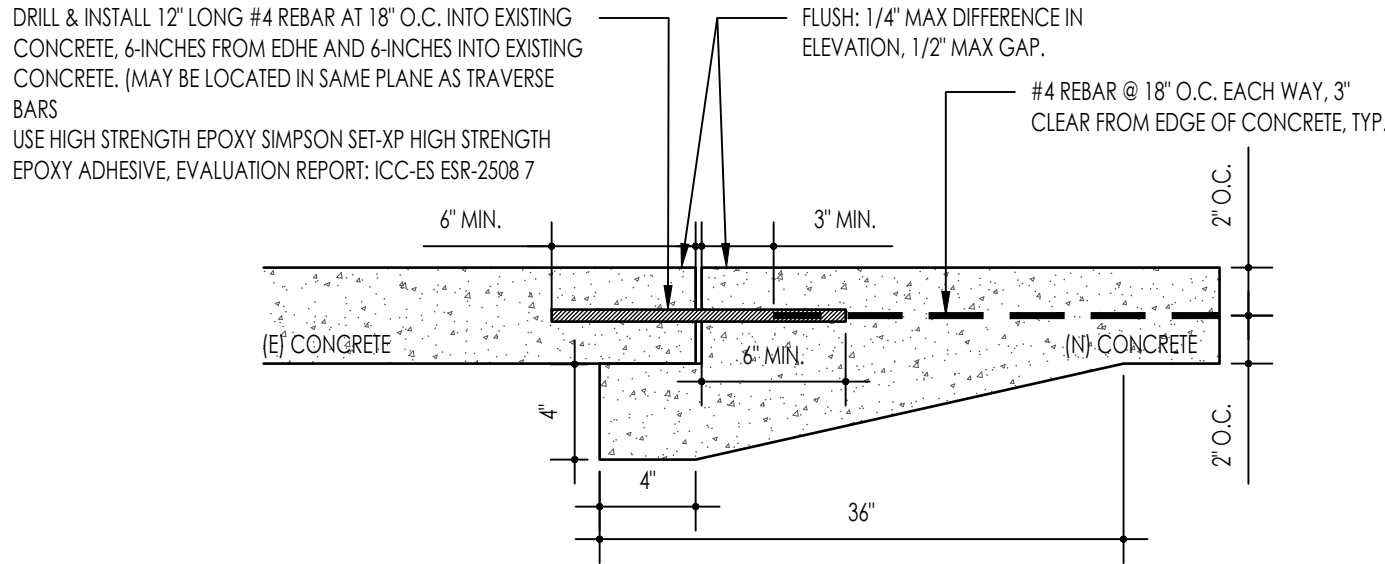
Revised plumbing drawings, details, and specifications for gas piping work.

Attachments:

Exhibit A: A1.1

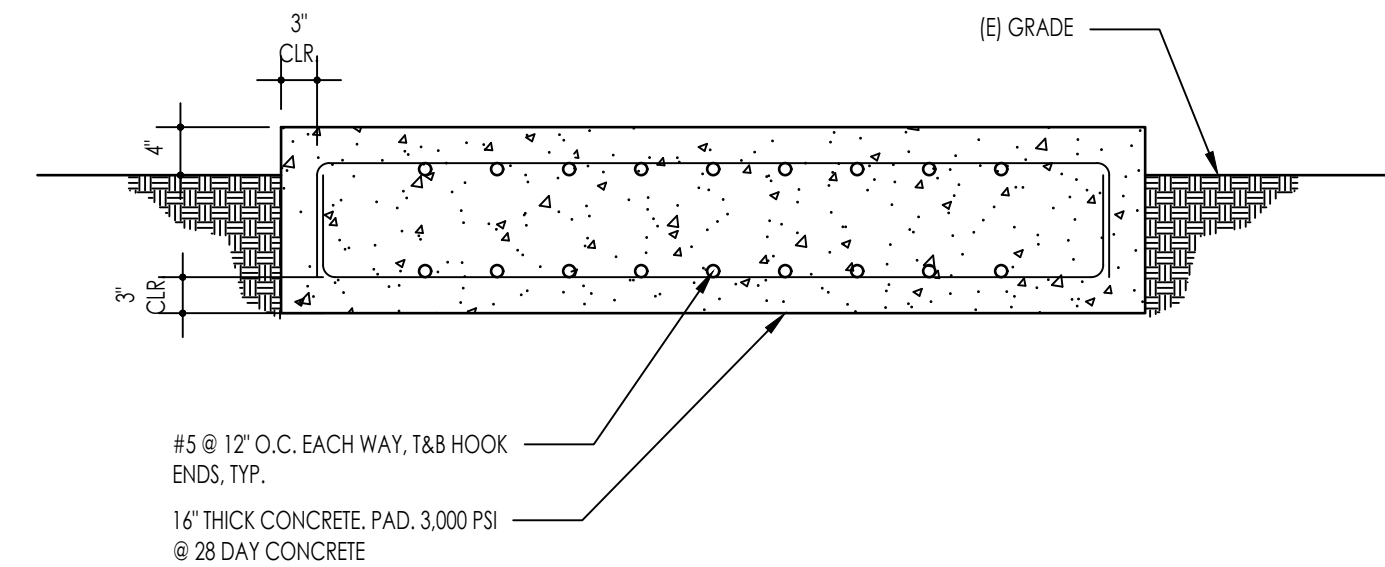
Exhibit B: PO.1

**[END OF ADDENDUM 01]**



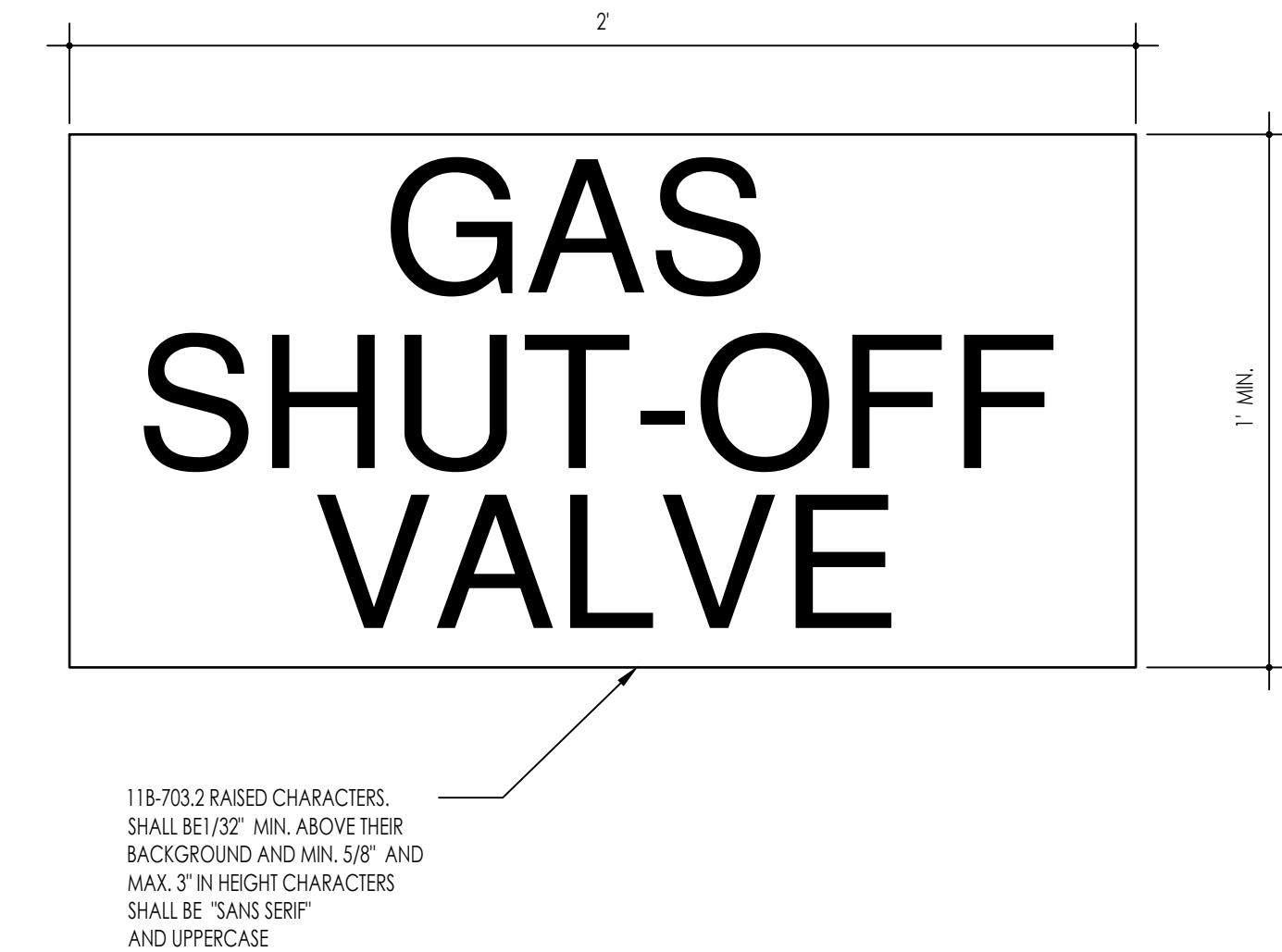
2 - SIDEWALK PATCH DETAIL

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



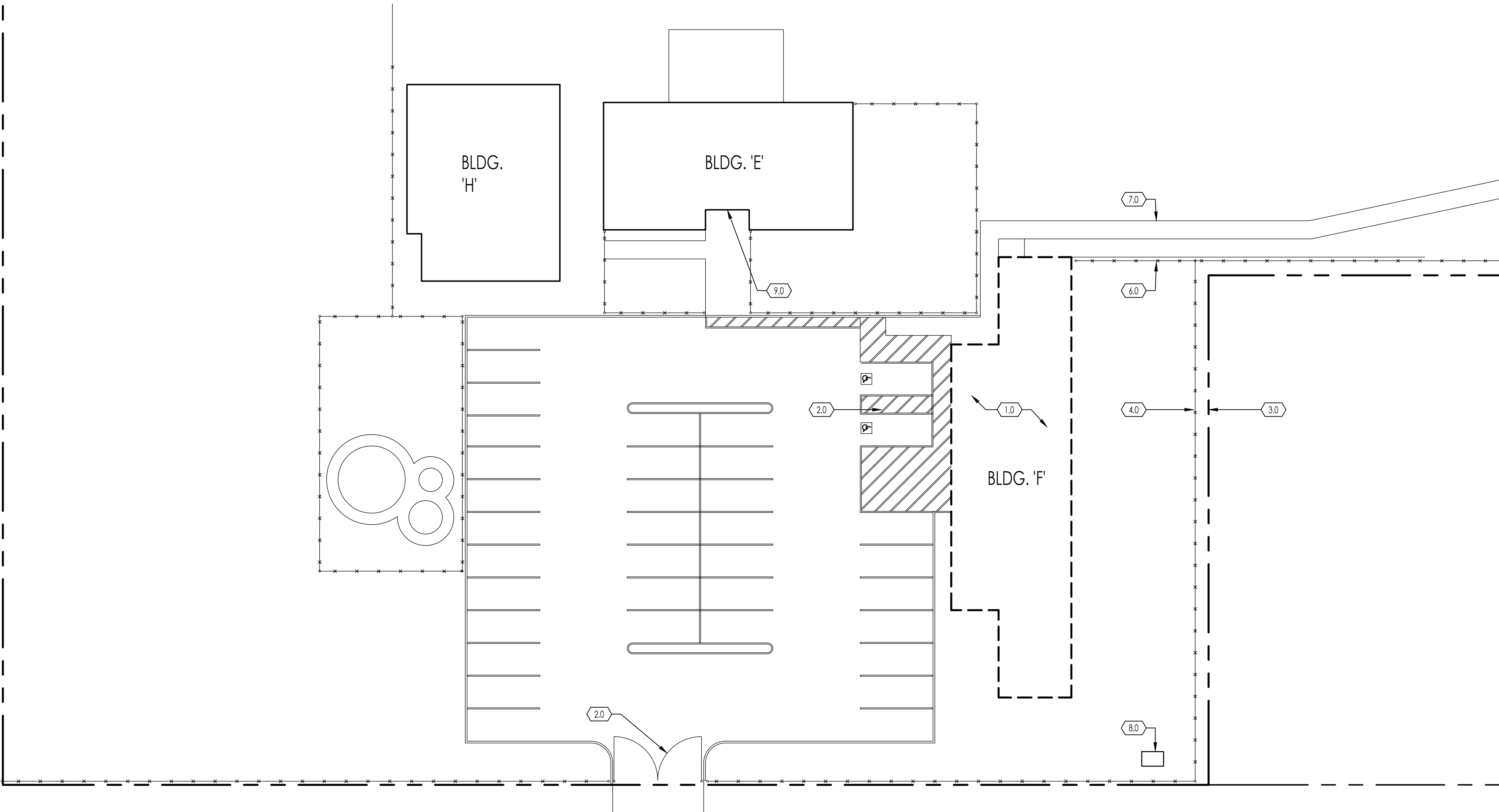
3 - HOUSEKEEPING PAD DETAIL

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



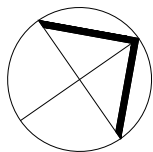
4 - GAS SHUT-OFF VALVE SIGNAGE

SCALE: 3" = 1'-0"



1 - EXISTING SITE PLAN

SCALE: 1" = 20'-0"



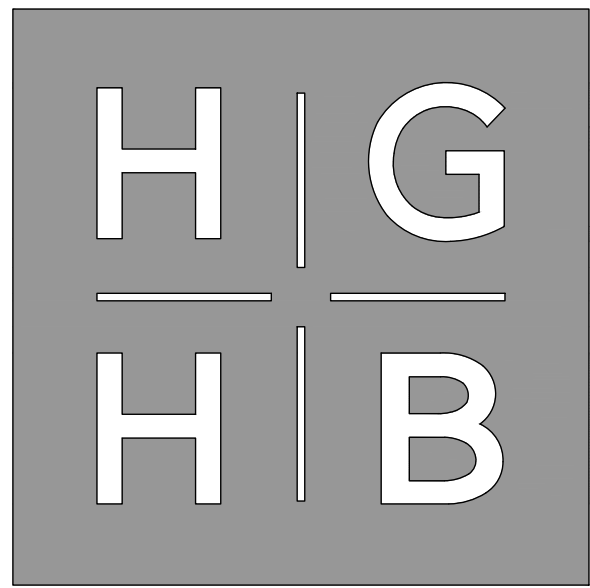
17 MILE DRIVE

SHEET NOTES

- 01 DEMOLISH EXISTING BUILDING F IN ITS ENTIRETY. SEE DEMOLITION NOTES
- 02 ACCESSIBLE PARKING TO REMAIN
- 03 PROPERTY LINE
- 04 EXISTING FENCING TO REMAIN
- 05 PARKING AREA ENTRANCE
- 06 REPAIR FENCE AS REQUIRED AFTER UTILITY TRENCHING
- 07 PATCH WALKWAY AT UTILITY TRENCHING. SEE 2/A1.1
- 08 (N) UTILITY HOUSEKEEPING PAD. SEE 3/A1.1. COORDINATE FINAL LOCATION WITH OWNER/DISTRICT REPRESENTATIVE
- 09 (N) GAS SHUT-OFF VALVE. SEE 4/A1.1 FOR SIGNAGE DETAIL. SEE MECHANICAL DWGS FOR LOCATION

DEMOLITION NOTES

- BUILDING DEMOLITION:
  - REMOVE BUILDING CONSTRUCTION, FOUNDATIONS/SLABS IF INTENDED, FIXTURES, EQUIPMENT, APPURTENANCES, ETC.
  - PROTECT ADJACENT BUILDINGS/SITE IMPROVEMENTS TO REMAIN.
  - COORDINATE UTILITY DISCONNECTION, REMOVAL, RELOCATION AND CAPPING WITH CIVIL, ELECTRICAL, FIRE ALARM AND APPLICABLE PLUMBING/PG&E DRAWINGS. DO NOT INTERRUPT UTILITIES SERVING BUILDINGS TO REMAIN.
  - CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE DEMOLITION.
  - HAZARDOUS MATERIAL ABATEMENT BY OWNER/OTHERS, IF THAT REMAINS EXCLUDED



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Drawing Title:  
SITE  
DEMOLITION PLAN

Scale: DRAWING SCALE

Sheet:

A1.1

Revision:

Date: October 2025

Job Number: 1720.02

| SYMBOL LEGEND                                                                                                                                                                                                                                                                                                                      |         |                                 |        |        |                                     | ABBREVIATIONS                                                                                                                                                                                                                                                                                                                                                                                       |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------|--------|--------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|-------------------------------------------------------|-------------------------------------------------------|--|--|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| SYMBOL                                                                                                                                                                                                                                                                                                                             | ABBRV.  | IDENTIFICATION                  | SYMBOL | ABBRV. | IDENTIFICATION                      | & °F                                                                                                                                                                                                                                                                                                                                                                                                | AND DEGREES FAHRENHEIT         | OF DOWN                      | INV INVERT                                            | RL REFRIGERANT LIQUID ROOM                            |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | CW      | COLD WATER (DOMESTIC)           |        | P.O.C. | POINT OF CONNECTION                 | AAV                                                                                                                                                                                                                                                                                                                                                                                                 | AUTOMATIC AIR VENT             | DP DIFFERENTIAL PRESSURE     | KWH KILOWATT HOUR                                     | RP REDUCED PRESSURE                                   |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | HW      | HOT WATER                       |        |        | REMOVE EXISTING                     | AC                                                                                                                                                                                                                                                                                                                                                                                                  | AIR CONDITIONER                | DWGS DRAWINGS                | LAT LEAVING AIR TEMPERATURE                           | RPM REVOLUTIONS PER MINUTE                            |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | HWR     | HOT WATER RETURN                |        |        | LINE BREAK                          | AD                                                                                                                                                                                                                                                                                                                                                                                                  | ACCESS DOOR                    | EX EXISTING                  | LBS POUNDS                                            | RS REFRIGERANT SUCTION                                |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | V       | VENT                            |        |        | TEE DOWN                            | AFF                                                                                                                                                                                                                                                                                                                                                                                                 | ABOVE FINISH FLOOR             | EA EXHAUST AIR               | LVR LOUVER                                            | RV RELIEF VALVE                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | TP      | TRAP PRIMER LINE                |        |        | 90 DOWN                             | AFUE                                                                                                                                                                                                                                                                                                                                                                                                | ANNUAL FUEL UTILIZATION        | EAD EXHAUST AIR DAMPER       | LWB LEAVING WET BULB                                  | SA SUPPLY AIR                                         |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | S OR W  | SOIL OR WASTE ABOVE GRADE       |        |        | RISER                               | AL                                                                                                                                                                                                                                                                                                                                                                                                  | ACOUSTICALLY LINED             | EAT ENTERING AIR TEMPERATURE | LWT LEAVING WATER                                     | SD SENSIBLE COOLING                                   |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | S OR W  | SOIL OR WASTE BELOW GRADE       |        |        | CONCENTRIC & ECCENTRIC REDUCERS     | AMP                                                                                                                                                                                                                                                                                                                                                                                                 | AMPERE                         | EDB ENTERING DRY BULB        | TEMPERATURE                                           | SC SMOKE DAMPER                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | AW      | ACID WASTE                      |        | AD, AP | ACCESS DOOR, ACCESS PANEL           | AN                                                                                                                                                                                                                                                                                                                                                                                                  | PIPE ANCHOR                    | EER ENERGY EFFICIENCY RATIO  | MAD, MD MANUAL AIR DAMPER                             | SEER SEASONAL ENERGY                                  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | GW      | GREASE WASTE                    |        | MAV    | MANUAL AIR VENT                     | AP                                                                                                                                                                                                                                                                                                                                                                                                  | ACCESS PANEL                   | EFF EFFICIENCY               | MAV MANUAL AIR VENT                                   | SM SHEET METAL                                        |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | RWL     | RAIN WATER LEADER               |        | T      | THERMOSTAT MOUNTED @ 48\"/>         | APPROX                                                                                                                                                                                                                                                                                                                                                                                              | APPROXIMATE                    | ELEV ELEVATION               | MBH 1000 BTU PER HOUR                                 | SOV SHUT-OFF VALVE                                    |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | OD      | OVERFLOW DRAIN                  |        | CO2    | CARBON DIOXIDE (CO2) SENSOR         | ARCH                                                                                                                                                                                                                                                                                                                                                                                                | ARCHITECT / ARCHITECTURAL      | ENT ENTERING                 | MCA MINIMUM CIRCUIT AMPS                              | SP STATIC PRESSURE                                    |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | CD      | CONDENSATE DRAIN                |        | \$     | SWITCH                              | AW                                                                                                                                                                                                                                                                                                                                                                                                  | ACID WASTE                     | EQ EQUAL                     | MCP MECHANICAL CONTROL PANEL                          | SPEC SPECIFICATION                                    |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | CAP     | CAP                             |        | AD     | AREA DRAIN                          | BOD                                                                                                                                                                                                                                                                                                                                                                                                 | BACK DRAFT DAMPER              | EQUIP EQUIPMENT              | MECH MECHANICAL                                       | SO SQUARE                                             |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | CONT    | CONTINUATION                    |        | FD     | FLOOR DRAIN                         | BFP                                                                                                                                                                                                                                                                                                                                                                                                 | BACKFLOW PREVENTER             | ESP EXTERNAL STATIC PRESSURE | MFR MANUFACTURER                                      | SOFT, FT SQUARE FEET                                  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         | BALL VALVE                      |        | VB     | VALVE IN BOX                        | BHP                                                                                                                                                                                                                                                                                                                                                                                                 | BRAKE HORSEPOWER               | EW ENTERING WATER            | MPG GAS - MEDIUM PRESSURE                             | SOIN, IN² SQUARE INCHES                               |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | CKV     | CHECK VALVE                     |        | TH     | THERMOMETER                         | BLDG                                                                                                                                                                                                                                                                                                                                                                                                | BUILDING                       | EWB ENTERING WET BULB        | MIN MINIMUM                                           | STRUCT STRUCT                                         |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | T&PRV   | TEMP. & PRESS. RELIEF VALVE     |        | RPBP   | REDUCED PRESSURE BACKFLOW PREVENTER | BOD                                                                                                                                                                                                                                                                                                                                                                                                 | BOTTOM OF DUCT                 | EWT ENTERING WATER           | MOCPP MAXIMUM OVERCURRENT PROTECTION                  | T THERMOSTAT. "X" INDICATES DEVICE CONTROLLED. 48\"/> |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | GPR     | GAS PRESSURE REGULATOR          |        | DCDA   | DOUBLE CHECK DETECTOR ASSEMBLY      | BTU                                                                                                                                                                                                                                                                                                                                                                                                 | BRITISH THERMAL UNIT           | EXT EXTERIOR                 | (N) NEW                                               | TC TOTAL COOLING                                      |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         | CIRCULATION PUMP (DOMESTIC)     |        |        |                                     | BTUH                                                                                                                                                                                                                                                                                                                                                                                                | BRITISH THERMAL UNITS PER HOUR | FF FLOOR DRAIN               | NC NORMALLY CLOSED                                    | TDH TOTAL DYNAMIC HEAD                                |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | WHA     | WATER HAMMER ARRESTOR           |        |        |                                     | CA                                                                                                                                                                                                                                                                                                                                                                                                  | COMBUSTION AIR                 | FLEX FLEXIBLE                | NIC NOT IN CONTRACT                                   | TEMP TEMPERATURE                                      |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | TP      | TRAP PRIMER ACCESS PANEL        |        |        |                                     | CD                                                                                                                                                                                                                                                                                                                                                                                                  | CONDENSATE DRAIN               | FMF FEET PER MINUTE          | NTS NOT TO SCALE                                      | TH THERMOMETER                                        |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | GCO/FCO | GRADE CLEAN-OUT/FLOOR CLEAN-OUT |        |        |                                     | CFH                                                                                                                                                                                                                                                                                                                                                                                                 | CUBIC FEET PER HOUR            | FS FLOOR SINK                | OA OUTSIDE AIR                                        | THRU THROUGH                                          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | WCO     | WALL CLEAN-OUT                  |        |        |                                     | CFM                                                                                                                                                                                                                                                                                                                                                                                                 | CUBIC FEET PER MINUTE          | FT FEET                      | OC ON CENTER                                          | TP TRAP PRIMER                                        |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | HB      | HOSE BIBB                       |        |        |                                     | CHWR                                                                                                                                                                                                                                                                                                                                                                                                | CHILLED WATER RETURN           | FT HD FEET HEAD              | OD OUTSIDE DIAMETER                                   | TV TURNING VANES                                      |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         | UNION                           |        |        |                                     | CHWS                                                                                                                                                                                                                                                                                                                                                                                                | CHILLED WATER SUPPLY           | FTR FLUE THRU ROOF           | OCFI OWNER FURNISHED, CONTRACTOR INSTALLED            | TW TEMPERED WATER                                     |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    | AN      | PIPE ANCHOR                     |        |        |                                     | CIRC                                                                                                                                                                                                                                                                                                                                                                                                | CIRCULATING                    | G GAS - LOW PRESSURE         | PIT PRESSURE/TEMPERATURE                              | TYL TYPICAL                                           |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         | FLEXIBLE CONNECTOR              |        |        |                                     | CL                                                                                                                                                                                                                                                                                                                                                                                                  | CENTERLINE                     | GA GAUGE                     | PD PRESSURE DROP                                      | UNLESS OTHERWISE NOTED                                |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CLG                                                                                                                                                                                                                                                                                                                                                                                                 | COOLING, CEILING               | GAL GALLON                   | PH PHASE                                              | V VOLT OR VENT                                        |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CLR                                                                                                                                                                                                                                                                                                                                                                                                 | CLEAR                          | GPM GALLONS PER MINUTE       | PLF POUNDS PER LINEAR FOOT                            | VB VALVE IN VALVE BOX                                 |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CONC                                                                                                                                                                                                                                                                                                                                                                                                | CONCRETE                       | GPR GAS PRESSURE REGULATOR   | POC POINT OF CONNECTION                               | VFD VARIABLE FREQUENCY DRIVE                          |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CONN                                                                                                                                                                                                                                                                                                                                                                                                | CONNECTION                     | GW GREASE WASTE PIPING       | PRV PRESSURE REDUCING VALVE                           | VIF VERIFY IN FIELD                                   |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CONT                                                                                                                                                                                                                                                                                                                                                                                                | CONTINUED, CONTINUATION        | HP HORSEPOWER                | PSI POUNDS PER SQUARE INCH                            | VTR VENT THROUGH ROOF                                 |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | COOL                                                                                                                                                                                                                                                                                                                                                                                                | COOLING                        | HR HOUR                      | PSI (G) (A) POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE) | W WITH                                                |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | COP                                                                                                                                                                                                                                                                                                                                                                                                 | COEFFICIENT OF PERFORMANCE     | HG HEATING                   | QTY QUANTITY                                          | WB WET BULB                                           |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | CW                                                                                                                                                                                                                                                                                                                                                                                                  | COLD WATER                     | HW HOT WATER                 | RA RETURN AIR                                         | WC WATER COLUMN                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | D/L                                                                                                                                                                                                                                                                                                                                                                                                 | DOOR LOUVER                    | HZ HERTZ                     | RAD RETURN AIR DAMPER                                 | WH WATER HEATER                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | DB                                                                                                                                                                                                                                                                                                                                                                                                  | DRY BULB                       | IE INVERT ELEVATION          | RH RELATIVE HUMIDITY                                  | WT WEIGHT                                             |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | DCV                                                                                                                                                                                                                                                                                                                                                                                                 | DOUBLE CHECK VALVE             | IN INCH                      |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| PLUMBING NOTES                                                                                                                                                                                                                                                                                                                     |         |                                 |        |        |                                     | MEP COMPONENT ANCHORAGE NOTE                                                                                                                                                                                                                                                                                                                                                                        |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  | 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED. |  |  |  |
| 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING: LOCAL, STATE, NATIONAL, NFPA AGENCIES. INFORMATION INCLUDED WITHIN THESE DOCUMENTS SHALL NOT BE CONSTRUED AS TO BE IN CONFLICT WITH APPLICABLE CODES. WHERE A CONFLICT OCCURS, THE CONTRACTOR SHALL PERFORM THE WORK TO THE MORE RESTRICTING REQUIREMENT. |         |                                 |        |        |                                     | 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 2025 CBC SECTIONS 1617A.1-18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:                                       |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 2. ALL EQUIPMENT FIXTURES AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.                                                                                                                                                                                                                        |         |                                 |        |        |                                     | 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.                                                                                                                                                                                                                                                                                                                                                          |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 3. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL BUILDING PENETRATIONS AND FRAMING REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ALL PROPOSED BUILDING PENETRATIONS AND METHODS OF FLASHING AND WEATHERPROOFING WITH THE ARCHITECT BEFORE BEGINNING ANY INSTALLATION.                             |         |                                 |        |        |                                     | 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 RECEPTACLES HAVING A FLEXIBLE CABLE.                                                                                                    |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 4. ALL PENETRATIONS THROUGH THE EXTERIOR BUILDING SURFACE SHALL BE PROPERLY SEALED AND CAULKED MATERIAL TIGHT.                                                                                                                                                                                                                     |         |                                 |        |        |                                     | 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.                                                                                                                                      |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 5. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.                                                                                                                                                                                                    |         |                                 |        |        |                                     | 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: |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 6. FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON PLATES AROUND PIPES AT ALL EXPOSED LOCATIONS.                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.                                                                                                                                                                                                                          |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 7. PIPING SHALL NOT PENETRATE INTO, OVER, OR THROUGH ELECTRICAL ROOMS UNLESS IT SERVES THE SPECIFIC ROOM. WHEN SERVICING ELECTRICAL ROOM, COMPLY WITH NATIONAL ELECTRICAL CODE REQUIREMENT.                                                                                                                                        |         |                                 |        |        |                                     | B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.                                                                                                                                                                                                                       |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 8. ALL RISERS AND PIPE DROPS SHALL BE IN WALL CAVITY OR PLUMBING CHASE, UNLESS OTHERWISE NOTED.                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.                              |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL PLUMBING FIXTURES.                                                                                                                                                                                                                           |         |                                 |        |        |                                     | MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT                                                                                                                                                                                                                                                                                                                   |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 10. COORDINATE AND FIELD VERIFY EXACT LOCATION, SIZE, POINT OF CONNECTION, AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER FIELD WORK, ETC., PRIOR TO TRENCHING OR INSTALLING ANY NEW WORK.                                                                                                                                        |         |                                 |        |        |                                     | PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2025 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.                                                                                                                 |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 11. COORDINATE AND VERIFY WITH STRUCTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL GRADE BEAMS AND FOOTINGS.                                                                                                                                                                                                             |         |                                 |        |        |                                     | THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.                                                                                                  |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 12. COORDINATE AND VERIFY ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, COLUMNS, SLABS AND FOOTINGS WITH STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO STARTING INSTALLATION OF THE PLUMBING SYSTEM.                                                                                                              |         |                                 |        |        |                                     | MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):                                                                                                                                                                                                                                                                                           |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 13. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.                                                                                                                                     |         |                                 |        |        |                                     | MP <input checked="" type="checkbox"/> MD <input checked="" type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> - OPTION 1: IR 16-13 SECTION 2.1: PROJECT-SPECIFIC DESIGN.                                                                                                                                                                                                     |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 14. PROVIDE GAS SHUTOFF VALVE, UNION, FLEX CONNECTION, AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.                                                                                                                                                                                                                |         |                                 |        |        |                                     | SHEET NUMBERS: _____                                                                                                                                                                                                                                                                                                                                                                                |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 15. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE, WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED. COORDINATE ACCESS PANEL LOCATION WITH THE ARCHITECT, BEFORE BEGINNING INSTALLATION.                                                             |         |                                 |        |        |                                     | MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> - OPTION 2: IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.                                                                                                                                                                                               |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 16. ALL EQUIPMENT SHALL BE LISTED WITH AN APPROVED TESTING AGENCY.                                                                                                                                                                                                                                                                 |         |                                 |        |        |                                     | OPM NUMBERS: _____                                                                                                                                                                                                                                                                                                                                                                                  |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 17. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED IN ACCORDANCE WITH CITY STANDARDS & SHALL OBTAIN THE APPROVAL PERMITS FROM THE PUBLIC WORKS DEPARTMENT.                                                                                                                                                                 |         |                                 |        |        |                                     | SHEET NUMBERS: _____                                                                                                                                                                                                                                                                                                                                                                                |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                    |         |                                 |        |        |                                     | MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> - OPTION 3: IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.                                                                                                                                                                                                   |                                |                              |                                                       |                                                       |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
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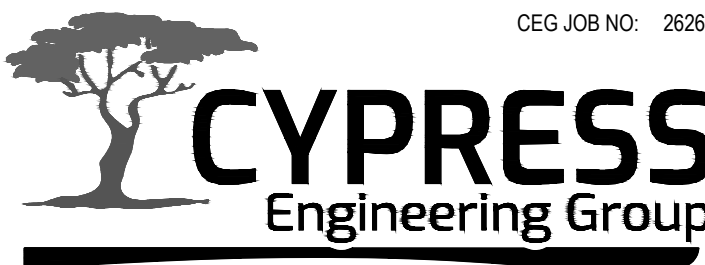


Architecture, Planning, Urban Design  
550 Hartnell Street, Suite J  
Monterey, California 93940  
Tel 831.375.9594

# BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950

CEG JOB NO: 2626



831.218.1802  
8 Harris Court, Suite A8  
Monterey, CA 93940  
cypresseq.com

HVAC, Plumbing, Fire Protection  
Building Commissioning  
Industrial Refrigeration  
Environmental Compliance  
Training & Technical Support



Drawing Title:

SYMBOL LEGENDS,  
ABBREVIATIONS, NOTES -  
PLUMBING

Scale:NONE

Sheet:

# P0.1

Revision:

Date: October 2025

Job Number: 1720.02

SECTION 22 10 00 - SITE UTILITIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Division 01, and Division 22 Sections apply to this Section.

1.2 SCOPE OF WORK

A. Provide all labor, apparatus, and materials that are required to provide a complete installation of plumbing and piping systems to within 5'-0" of building as indicated on the drawings and in the specifications, including that reasonably inferred for proper execution of this Division.

B. Consult all other Sections to determine the extent of this work specified elsewhere.

C. Coordinate all utility requirements for equipment furnished under this Division. Rough-in required systems and make final connections.

1.3 SUBMITTALS

A. Submit for review, within fifteen (15) days after signing Contract, the required number of copies of a complete list of materials proposed for use. This list includes:

1. Piping.
2. Valves and Valve Boxes.
3. Cleanouts.
4. Tracer wire and marker tape.
5. Site Survey: Plans, drawn to scale, on which natural gas, water, and sewer piping is shown and coordinated with other services and utilities.

B. No substitute materials or equipment shall be installed without the written approval of the Architect.

C. No increase in the contract price will be considered to accommodate the use of alternative equipment, including revisions required by other trades.

D. Submit test reports on all systems tested. Tests required by Authorities Having Jurisdiction over the work shall be submitted on appropriate forms to the satisfaction of such authorities.

1.4 REGULATIONS AND STANDARDS

A. Install all work to meet or exceed requirements prescribed by governmental bodies having jurisdiction and in accordance with all federal, state, and local codes and ordinances, and all OSHA requirements. These codes include, but are not limited to the latest applicable edition of the following:

1. California Building Code
2. California Electrical Code
3. California Plumbing Code
4. California Mechanical Code
5. California Energy Code
6. California Green Buildings Standard
7. California Fire Code
8. National Fire Protection Association

1.5 QUALITY ASSURANCE

A. Each length of pipe, fitting, or device used in any piping system shall be stamped or indelibly marked with type, weight, quality, and manufacturer's name or mark.

B. Comply with current governing codes, ordinance and regulations of the Authority Having Jurisdiction and the regulations and requirements of the Owner's insurance underwriter.

C. Where requirements differ between drawings, specifications, codes and standards, apply the more stringent.

D. Should any change in drawings or specifications be required to comply with governing regulations, notify the Architect prior to submitting bid.

E. After contract is awarded, if minor changes or additions are required by the aforementioned authorities, even though such work is not shown on drawings or overtly covered in the specifications, they shall be included at the Contractor's expense.

F. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, skillful and well-executed manner by competent workers. Provide a competent, experienced full-time Superintendent who is authorized to make decisions on behalf of the Contractor.

G. The Architect or Architect's Representative may conduct unannounced field reviews of any work completed or in progress. A report will be issued for all items that are found to be inconsistent with the contract documents. All items in the report shall be addressed in writing by the Contractor within two (2) weeks.

1.6 SAFETY

A. Contractors must conduct a weekly safety meeting with their employees and maintain documentation of attendance and topics of discussion. Contractor shall comply with all OSHA regulations. Contractor is required to obtain and pay for insurance required to cover all activities within Contractor's scope of work.

1.7 PERMITS, FEES, AND UTILITIES

A. Secure and pay for all permits, licenses, inspections, and fees required.

B. Coordinate with other Sections and schedule sequence of accomplishing the work in such a manner as not to interrupt existing services and utilities at a time that will inconvenience the Owner. Provide Owner a minimum 48 hour notice when utilities will be interrupted.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Pipes shall be shipped so as not to bend, dent, or otherwise damage the pipe during transport. Contractor shall take all necessary precautions to prevent damage to pipe and fittings during delivery and unloading. Any pipe found to have been damaged due to improper handling shall be removed from the jobsite at Contractor's expense.

B. Handling flammable liquids: Remove and dispose of liquids from existing natural-gas piping according to requirements of authorities having jurisdiction.

C. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.

D. Store and handle pipes and tubes having factory-applied protective coatings to avoid damaging coating, and to protect from direct sunlight.

E. Protect stored PE pipes and valves from direct sunlight.

1.9 COORDINATION

A. Coordinate with work performed by other Sections in order to ensure adequate space and proper location of all necessary work on this project whether or not work is under this Section. Coordination shall be done prior to order or manufacture of any systems or components.

B. Wherever the work is of sufficient complexity, prepare additional detail drawings to scale to coordinate the work with the work of other trades. At completion, include a set of these drawings with the record drawings.

C. Install the work in cooperation with other trades. Before installation, make proper provisions to avoid interferences.

D. Pipes which pitch have right-of-way over those which do not pitch. For example, waste piping normally has right-of-way.

E. No additional costs will be considered for work which has to be relocated due to conflicts with other trades or for additional equipment/parts that need to be installed due to a lack of coordination prior to, or during, construction.

PART 2 - PRODUCTS

2.1 GAS PIPING

A. Above Grade Piping: ASTM A53B seamless, Schedule 40, carbon steel pipe, hot dipped and galvanized coating.

B. Below Grade Piping: Performance Pipe, "DriscoPlex" 6500 PE 2708 or equal ASTM D2513 polyethylene gas distribution pipe. Furnish and install in accordance with manufacturer's installation instructions and specification.

C. Below grade piping shall have minimum 18" of cover and shall not be used for risers.

D. Above Grade Fittings: 150# black malleable iron fittings and threaded joints for pipes 2" and smaller, but welded joints for pipes 2 1/2" and larger. Hot dipped and galvanized coating for exterior fittings.

E. Press fittings shall be permitted for use where approved by local authorities having jurisdiction and in compliance with current codes.

F. Below Grade Fittings: ASTM D2513, ASTM D3261, and ASTM D2683 fittings with fusion welded joints. Fusion welder shall be certified by manufacturer of the pipe.

G. Gas Riser: GF Central Plastics, Elster Perfection, or approved equal anodeless riser for transition from below grade polyethylene to schedule 40 steel piping above grade. Minimum horizontal run shall be 30 inches. Minimum vertical length shall be 30 inches; 6 inches minimum above grade.

H. Gas Shut-off valve: For high pressure gas service use Dezurik Series 400 lubricated gas cock with RS49 or RS51 plug seals, UL listed. On low pressure service lines use Milwaukee B52 100 Buttweld, NIBCO, or approved equal.

I. Earthquake Valves: Earthquake ball type actuated automatic gas shut off valve, listed by UL and certified by California State Architect, Pacific Seismic Products. Install at gas meter.

J. Below grade shut-off valve: Polyvalve Poly-Gas polyethylene gas valve. Furnish and install in accordance with manufacturer's installation instructions and specification.

K. Shut-off valves for below grade piping shall be installed in concrete valve box with reinforced concrete lid. Christy concrete product, or approved equal.

2.2 TRACER WIRE

A. Contractor shall provide tracer wire and warning tape for all non-metallic pipe below grade.

B. Tracer wire shall be minimum size #12 AWG copper wire with UL approval for direct burial with an insulating jacket of yellow color. Piping shall have a contiguous trace wire strapped to the pipe every 5 lineal feet and shall be accessible at every riser and in-grade valve box.

2.3 THRUST BLOCKS

A. Thrust blocks shall be a minimum of 2000 psi concrete.

PART 3 - EXECUTION

3.1 PREPARATION

A. Close equipment shutoff valves before turning off natural gas to premises or piping section.

B. Inspect natural gas piping according to NFPA 54 to determine that natural gas utilization devices are turned off in piping section affected.

3.2 EXAMINATION OF SITE

A. The Contract Documents do not make representations regarding the character or the extent of the subsols, water levels, existing structural, mechanical, plumbing, and electrical installations, above or below grade, or other sub-surface conditions which may be encountered during the work.

B. Evaluate existing conditions that may affect methods or cost of performing the work, based on examination of the site or other information. Failure to examine the Drawings or other information does not relieve the Contractor of responsibility for satisfactory completion of the work.

C. Verify all dimensions, lines, and levels at the site for all work specified herein. All inverts, slopes, and elevations shall be established by instrument working from established datum. Provide elevation markers and lines for Owner's use in determining that slopes and elevations are in accordance with contract requirements. Accurately locate trenches in relation to building and boundary lines.

3.3 EXCAVATION AND BACKFILL

A. Provide excavation for the work of this Division. Excavate all material encountered, to the depths indicated on the Drawings or as required. Remove excavated materials not required or suitable for backfill from the site. Provide grading as may be necessary to prevent surface water from flowing into trenches or other excavations. Remove any water that accumulates. Provide sheeting and shoring as may be necessary for the protection of the work and for the safety of personnel.

B. Provide trenches of widths necessary for the proper execution of the work. Grade bottom of the trenches accurately to provide uniform bearing and support on the work on undisturbed soil at every point along its entire length.

C. Bedding shall be on minimum 6" deep layer of sand placed on leveled trench bottom. Sand removed to necessary depth for piping bells and couplings to maintain contact of pipe on sand for entire length. All other piping laid on smooth level trench bottom to maintain contact for entire length.

D. All backfill shall be bank run sand and/or gravel to 6" above piping up to slab on interior piping below slabs. All backfill placed in layers not exceeding 8" deep and compacted to 95% maximum density at optimum moisture content per AASHTO Standards.

E. Following backfilling, grade all trenches to level of surrounding subgrade. All excess soil shall be located per Owner's instructions.

F. Do not backfill trenches until all required tests have been performed and the installation observed by the Architect.

G. After backfilling, remove all surplus earth resulting from this work from the premises and dispose off site.

3.4 TESTING, ADJUSTING, AND CLEANING

A. Provide testing of all installed domestic water, drainage and vent systems during progress of work. Such tests shall be done in the presence of the Owner's representative, and all Authorities Having Jurisdiction. The inspection authority having jurisdiction and the Engineer shall be notified a minimum of 48 hours prior to performance of all tests so that they may be witnessed.

B. Provide the Architect with certified copies of the test results in written format. At a minimum include the date of the test, witnesses present, sections tested, length of tests, starting and final pressures.

C. Contractor shall provide all apparatus, temporary work, or any other requirements necessary for such tests. Take all due precautions to prevent damage to the building or its contents that may be incurred by such tests as the Contractor will be required to repair and make good, at own expense, any damage caused.

D. Any defects or deficiencies discovered as result of tests shall be immediately repaired and tests shall be repeated until all test requirements are fully met. No caulkng of pipe joints to remedy leaks shall be permitted.

E. Gas Piping: All gas piping shall be tested per NFPA 54 to 60 psig for 1 hour without drop in pressure. Equipment and personnel shall be protected from this test procedure. Measure natural gas system test pressure with a water manometer or an equivalent device calibrated in increments not greater than 0.1 inch water column. System shall not be approved until it can be demonstrated that there is no measurable loss of test pressure during test period.

F. Upon completion of work, clean all equipment and piping installed under this Section.

END OF SECTION

SECTION 22 00 00 - PLUMBING GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

A. Refer to the General Conditions, Supplementary Conditions, and Division 01 General Requirements.

1.2 SCOPE OF WORK

A. Provide all labor, apparatus, and materials that are required to provide a complete installation as indicated on the drawings and in the specifications, including that reasonably inferred for proper execution of this Division.

B. Consult all other Sections to determine the extent of this work specified elsewhere.

C. Coordinate all utility requirements for equipment furnished under this Division. Rough-in required systems and make final connections.

1.3 REGULATIONS AND STANDARDS

A. Install all work to meet or exceed requirements prescribed by governmental bodies having jurisdiction and in accordance with all federal, state, and local codes and ordinances, and all OSHA requirements. These codes include, but are not limited to the latest applicable edition of the following:

1. California Building Code
2. California Electrical Code
3. California Plumbing Code
4. California Mechanical Code
5. California Energy Code
6. California Green Buildings Standard
7. California Fire Code
8. National Fire Protection Association

1.4 QUALITY ASSURANCE

A. Comply with current governing codes, ordinance and regulations of the Authority Having Jurisdiction and the regulations and requirements of the Owner's insurance underwriter.

B. Where requirements differ between drawings, specifications, codes and standards, apply the more stringent.

C. Should any change in drawings or specifications be required to comply with governing regulations, notify the Architect prior to submitting bid.

D. After contract is awarded, if minor changes or additions are required by the aforementioned authorities, even though such work is not shown on drawings or overtly covered in the specifications, they shall be included at the Contractor's expense.

E. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, skillful and well-executed manner by competent workers. Provide a competent, experienced full-time Superintendent who is authorized to make decisions on behalf of the Contractor.

F. The Architect or Architect's Representative may conduct unannounced field reviews of any work completed or in progress. A report will be issued for all items that are found to be inconsistent with the contract documents. All items in the report shall be addressed in writing by the Contractor within two (2) weeks.

1.5 SAFETY

A. Contractors must conduct a weekly safety meeting with their employees and maintain documentation of attendance and topics of discussion. Contractor shall comply with all OSHA regulations. Contractor is required to obtain and pay for insurance required to cover all activities within Contractor's scope of work.

1.6 PERMITS, FEES, AND UTILITIES

A. Secure and pay for all permits, licenses, inspections, and fees required.

B. Coordinate with other Sections and schedule sequence of accomplishing the work in such a manner as not to interrupt existing services and utilities at a time that will inconvenience the Owner. Provide Owner a minimum 48 hour notice when utilities will be interrupted.

1.7 PAINTING

A. Paint all exposed piping and supports.

B. See Division 09 for painting.

1.8 COORDINATION

A. Coordinate with work performed by other Sections in order to ensure adequate space and proper location of all necessary work on this project whether or not work is under this Section. Coordination shall be done prior to order or manufacture of any systems or components.

B. At a minimum, coordinate location of each piece of equipment, requirements for access panels, space required for supports, power requirements for each piece of equipment, and control requirements for each piece of equipment.

C. Coordination meetings shall happen within the first two weeks of construction start. Coordination meeting minutes shall be submitted to the Architect for review.

D. Prepare complete set of construction coordination shop drawings indicating equipment actually purchased and exact routing of all piping and ductwork. Requirement for coordination shop drawings shall not be construed as authorization for contractor to make unauthorized changes to Contract Documents. Prior to final acceptance, contractor shall submit the coordination shop drawings as part of the record drawings.

E. Wherever the work is of sufficient complexity, prepare additional detail drawings to scale to coordinate the work with the work of other trades. At completion, include a set of these drawings with the record drawings.

F. Install the work in cooperation with other trades. Before installation, make proper provisions to avoid interferences.

G. Pipes which pitch have right-of-way over those which do not pitch. For example, condensate drains and waste normally have right-of-way.

H. No additional costs will be considered for work which has to be relocated due to conflicts with other trades or for additional equipment/parts that need to be installed due to a lack of coordination prior to, or during, construction.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIALS

A. Provide products and materials that are new, clean, free of defects, damage and corrosion. Inspect all materials and remove defective materials from the site.

B. Provide materials and equipment bearing the label of, or listed by, the Underwriter's Laboratories (UL), unless the material or equipment is of a type for which label or listing service is not provided.

C. Furnish all materials and equipment of the same type by the same manufacturer.

2.2 ALTERNATE EQUIPMENT AND MATERIALS

A. No substitute materials or equipment may be installed without the written approval of the Architect.

B. Contract documents are based on materials specified and equipment manufacturers indicated. Acceptance of alternative equipment manufacturers does not relieve Contractor of the responsibility to provide equipment and materials which meet the quality and performance stated or implied in the contract documents.

C. All submittals for substitution must include comparison to show equal with scheduled equipment. Submit proposals to supply alternate materials or equipment, in writing, with sufficient lead time for review prior to the date equipment must be ordered to maintain project schedule.

D. No increase in the contract price will be considered to accommodate the use of alternative equipment, including revisions required by other trades.

2.3 SUBMITTALS

A. Submit shop drawings, manufacturer's data, samples and test reports as specified.

B. The review of submittals is for general compliance with the design concept and contract documents. Comments or absence of comments does not relieve the Contractor/Vendor/Manufacturer from compliance with the contract documents. The Contractor remains solely responsible for details and accuracy for confirming and correlating all quantities and dimensions, for selecting fabrication processes, and techniques of construction, for performing the work in a safe manner, and for coordinating the work with that of other trades.

C. No part of the work shall be ordered, procured, or installed until that work has been submitted, reviewed, and returned without comment.

D. Items indicated in submittal comments shall be provided and installed by contractor.

E. The Engineer and/or Architect shall review the submitted documents for general conformance with the design concept of the project. The review does not relieve the Contractor of the responsibility of deviations from the requirements stated in the contract documents.

F. The Engineer's and/or Architect's review shall not be construed as a completed detailed check of the work submitted, nor shall it relieve the Manufacturer or Contractor of responsibility for errors or omissions of any sort or from the necessity of furnishing any

work required by the contract documents.

G. Submittals are not reviewed for quantities, dimensions, weights, fabrication processes, construction methods, coordination with work of other trades, construction safety practices, service clearance, location of control and electrical panels, and other layout constraints. These items shall remain the sole responsibility of the Contractor.

H. A minimum period of ten (10) working days will be required in the Engineer's office each time a submittal is sent for review. Contractor shall prioritize submittal reviews where multiple submittals are sent for review. This time period must be considered by the Contractor in the scheduling of the work.

I. Submittals will be returned to indicate appropriate action taken as follows:

1. No Exceptions Taken.
2. Make Corrections Noted. No Resubmittal Required.
3. Revise and Resubmit.
4. Rejected.
5. Not Reviewed.

J. Use electronic form acceptable to Architect for electronic submittals, containing the following information:

1. Project name.
2. Date.
3. Name and address of Architect and Engineer.
4. Name of Owner.
5. Name, address and contact information of Contractor.
6. Names and contact information of sub-contractor, manufacturer, and supplier.
7. Name of entity that prepared submittal.
8. Category and type of submittal.
9. Specification Section number and title.
10. Drawing number and detail references, as appropriate.
11. Transmittal number, numbered consecutively, and revision number clearly identified.
12. Each item submitted labeled or identified the same as on the drawings.

K. Identify each sheet of submittal pages (using arrows, underlining or circling) to show applicable sizes, types, model numbers, ratings, capacities and options actually being proposed. Cross out non-applicable information.

L. Organize submittals to keep all related items together; break submittal into sections and provide appropriate identifying tags on submittal pages to indicate item being submitted.

M. Provide a bookmark for each submittal section. Include a table of contents at beginning of submittal.

N. Submit all items related to specification section in single submittal file. Partial submittals will be deemed incomplete and not reviewed.

O. Inadequate or incomplete submittals will not be reviewed and will be returned to the Contractor for resubmittal.

P. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. No additional costs will be considered for any special handling charges or expedited processing required for materials or equipment not ordered in time.

2.4 REQUEST FOR INFORMATION

A. While every effort has been made to coordinate the locations of equipment covered under other sections or divisions of these specifications, it is the responsibility of the Contractor to coordinate the exact requirements governed by actual job conditions. Check all information and report any discrepancies before submitting bid or fabricating work.

B. Report discrepancies in time to avoid unnecessary work, and make changes as directed by the Architect.

C. Do not make changes or additions that are subject to additional compensation without written authorization, based upon an agreed price. Any changes made without the above-mentioned authorization shall be at Contractor's own risk and expense.

D. Follow manufacturer's instructions where they cover points not specifically indicated. However, if they are in conflicts with these drawings and specifications, obtain clarifications from the Architect before starting work.

E. All requests for information shall be accomplished with Contractor's proposed solution.

PART 3 - EXECUTION

3.1 EXAMINATION OF SITE

A. The Contract Documents do not make representations regarding the character or the extent of the subsols, water levels, existing structural, mechanical, plumbing, and electrical installations, above or below grade, or other sub-surface conditions which may be encountered during the work.

B. Evaluate existing conditions that may affect methods or cost of performing the work, based on examination of the site or other information. Failure to examine the Drawings or other information does not relieve the Contractor of responsibility for satisfactory completion of the work.

3.2 DRAWINGS

A. Drawings show general arrangement and location of piping and equipment. Drawings are diagrammatic and intended to show approximate location and routing. Dimensions on drawings shall take precedence over scaled dimensions on drawings. Allow for supports, expansion, and pitch of piping. Field verify all dimensions.

B. The exact locations of equipment and piping shall be ascertained from the Architect or the Owner's representative in the field. The Architect reserves the right to make minor changes in the location of piping and equipment up to the time of installation without additional cost.

C. Furnish and install any incidental work not shown or specified which can reasonably be inferred as part of the work and necessary to provide a complete and workable system. This includes any wiring of sensors, switches, etc.

D. Execute any work or apparatus shown on the Drawings and not specifically mentioned in the Specifications, or vice versa. Omission from Drawings or Specifications of any minor details of construction, installation, materials, or essential specialties does not relieve Contractor from furnishing complete workable system.

3.3 RECORD DRAWINGS

A. Contractor shall maintain a complete set of documents on site that are marked up during the construction process indicating all changes that have been made. Record drawings shall be maintained up to date throughout construction. Indicate clearly all work installed differently from that shown.

B. Upon completion of work, certify all record drawings with a stamp including the date and name of Contractor. Submit one (1) complete, bookmarked, set of electronic record drawings to the Architect for final review.

C. Record drawings must include the following as a minimum:

1. Actual equipment locations.
2. Revisions or substitutions to equipment schedules.
3. Pipe size and routing.
4. Dimensional changes to drawings.
5. Revisions to details shown on drawings.
6. Changes made by RFIs, Addenda, or Change Orders.
7. Locations of access panels and shut-off valves.
8. Locations and depths of underground utilities.

3.4 PROTECTION OF BUILDING

A. Protect new and existing building structures and adjacent finished surfaces during construction. Patch, repair, and refinish existing work damaged by work under this Division to match adjacent undisturbed areas.

3.5 DELIVERY, DRAYAGE AND HAULING

A. Include all drayage, hauling, hoisting, shoring and placement in the building of equipment specified and be responsible for the timely delivery of equipment to the project as required by the construction schedule.

B. Provide proper protection and storage of all items and tools required.

C. If equipment is not delivered or installed at the project site in a timely manner as required by the construction schedule, the Contractor shall be responsible for disassembly, re-assembly, manufacturer's supervision, shoring, general construction modification, delays, overtime costs, etc. at no additional cost to the Owner.

3.6 EQUIPMENT AND MATERIAL PROTECTION

A. Protect the work, equipment, and material of other trades from damage by work or workers of this trade, and correct damage caused without additional cost to the Owner.

B. The Contractor shall be responsible for all work, materials, and equipment until finally inspected, tested, and accepted. Protect work against theft, injury, or damage. Carefully store material and equipment received on site that is not immediately installed.

C. Cover open ends of work with temporary covers or plugs during construction to prevent entry of dust, dirt, water or other obstructing material. Cover and protect equipment and

materials from damage due to water, humidity, paint, spray-on fireproofing, construction debris, etc. Store equipment subject to moisture damage, such as insulation or electrical components in dry, heated spaces.

D. Provide adequate means for fully protecting finished parts of the materials and equipment against damage from whatever cause during the process of the work until final acceptance.

E. Do not install damaged items. Take immediate steps to obtain replacement or repair. Replace all wet or damp insulation or acoustic lining.

F. Do not operate water systems until piping has been cleaned, disinfected and start-up strainers are in place.

3.7 QUALITY OF WORK

A. The quality of work shall be of a standard generally accepted in the respective trade. Use only experienced, competent, and properly equipped workers. Replace work falling below this standard as directed by the Architect.

B. Systems shall be worked into a complete and integrated arrangement with like elements arranged neatly with adequate head room and passageway free from obstructions.

3.8 FURRING AND PIPE SPACES

A. Spaces provided in the design of the building shall be utilized and the work shall be kept within the furring lines established on the Drawings.

B. Ensure necessary clearances on trim plates at exposed penetrations of walls and floors. If sufficient room is not available above suspended ceiling or vertical shafts obtain clarification from Architect before work is started.

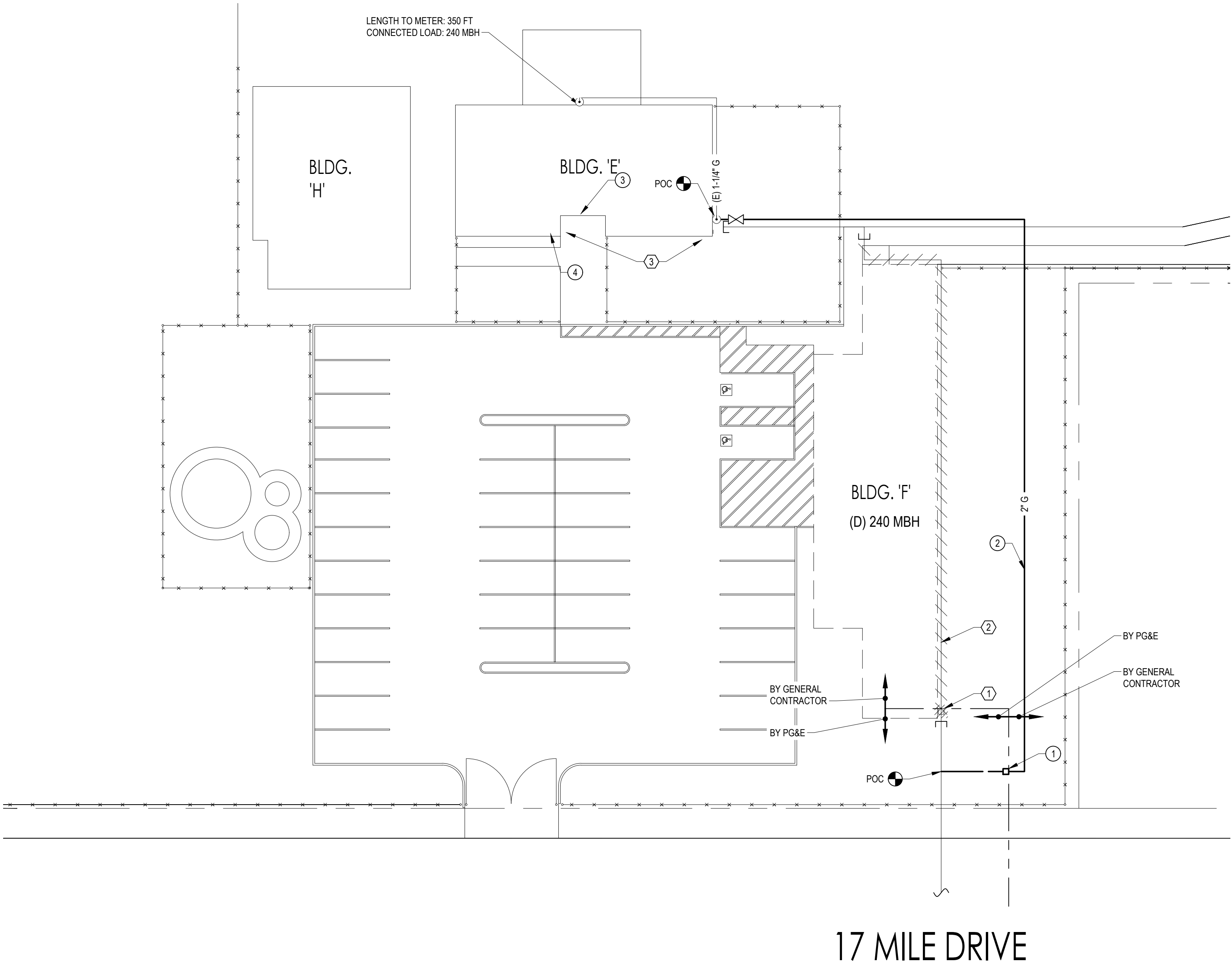
3.9 CUTTING AND PATCHING

A. Do not cut, channel or drill unfinished masonry, tile, etc. unless written permission is obtained from the Architect. Perform the work in a manner acceptable to the Architect. Cutting of structural members or footings is prohibited without the prior written consent of the Structural Engineer.

B. Where cutting, channeling or drilling of floors, walls, partitions, ceilings, or other surfaces is necessary from the proper installation



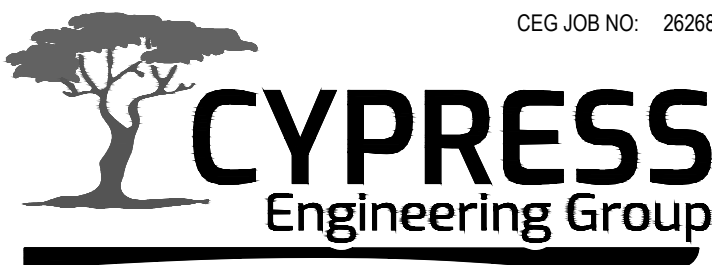
| # CONSTRUCTION NOTES                                                                                                                                                                                                                                                                                                                                                                                                             | # DEMOLITION NOTES                                                                                                                                                                                                                                                                  | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1. PG&amp;E GAS METER ON HOUSEKEEPING PAD. SEE ARCHITECTS DRAWINGS FOR EXACT LOCATION AND METER PROTECTION.</div> <div>2. INSTALL GAS PIPING BELOW GRADE. SEE 1/P0.1 FOR TRENCHING.</div> <div>3. INSTALL GAS SHUT-OFF VALVE BELOW GRADE IN VALVE BOX. SEE B/C2 ON CIVIL DRAWINGS FOR SIMILAR, WITH METAL LID MARKED "GAS".</div> <div>4. PROVIDE GAS SHUT-OFF SIGN ON BUILDING. SEE ARCHITECTS DRAWINGS FOR SIGNAGE.</div> | <div>1. COORDINATE THE REMOVAL OF (E) GAS METER AT BUILDING F WITH PG&amp;E.</div> <div>2. REMOVE (E) GAS PIPING ATTACHED TO EXTERIOR WALL AT BUILDING F DOWNSTREAM OF THE (E) GAS METER BACK.</div> <div>3. CAP AND ABANDON (E) GAS PIPING BELOW GRADE AND ABANDON IN PLACE.</div> | <div>1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.</div> <div>2. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF CONCRETE, ASPHALT OR LANDSCAPING.</div> <div>3. THE GENERAL ARRANGEMENT OF EXISTING PIPING. IS BASED UPON DATA FROM AS-BUILT DRAWINGS AVAILABLE AT THE TIME OF DRAWING PREPARATION. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATIONS AND SHALL BE MADE BY CONTRACTOR WITHOUT EXTRA EXPENSE TO OWNER. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR, AND EXACT LOCATIONS, DISTANCES, AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS TO DETERMINE EXACT ROUTING AND FINAL TERMINATION FOR ALL PIPING AND DRAIN LINES.</div> <div>4. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.</div> |



Architecture, Planning, Urban Design  
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## BUILDING 'F' DEMOLITION

PACIFIC GROVE ADULT EDUCATION  
1025 LIGHTHOUSE AVE. PACIFIC GROVE, CA. 93950



831.218.1802  
8 Harris Court, Suite A8  
Monterey, CA 93940  
cypresseng.com

HVAC, Plumbing, Fire Protection  
Building Commissioning  
Industrial Refrigeration  
Environmental Compliance  
Training & Technical Support



Drawing Title:  
SITE PLAN - PLUMBING

Scale:1" = 20'-0"

Sheet:

# P1.1

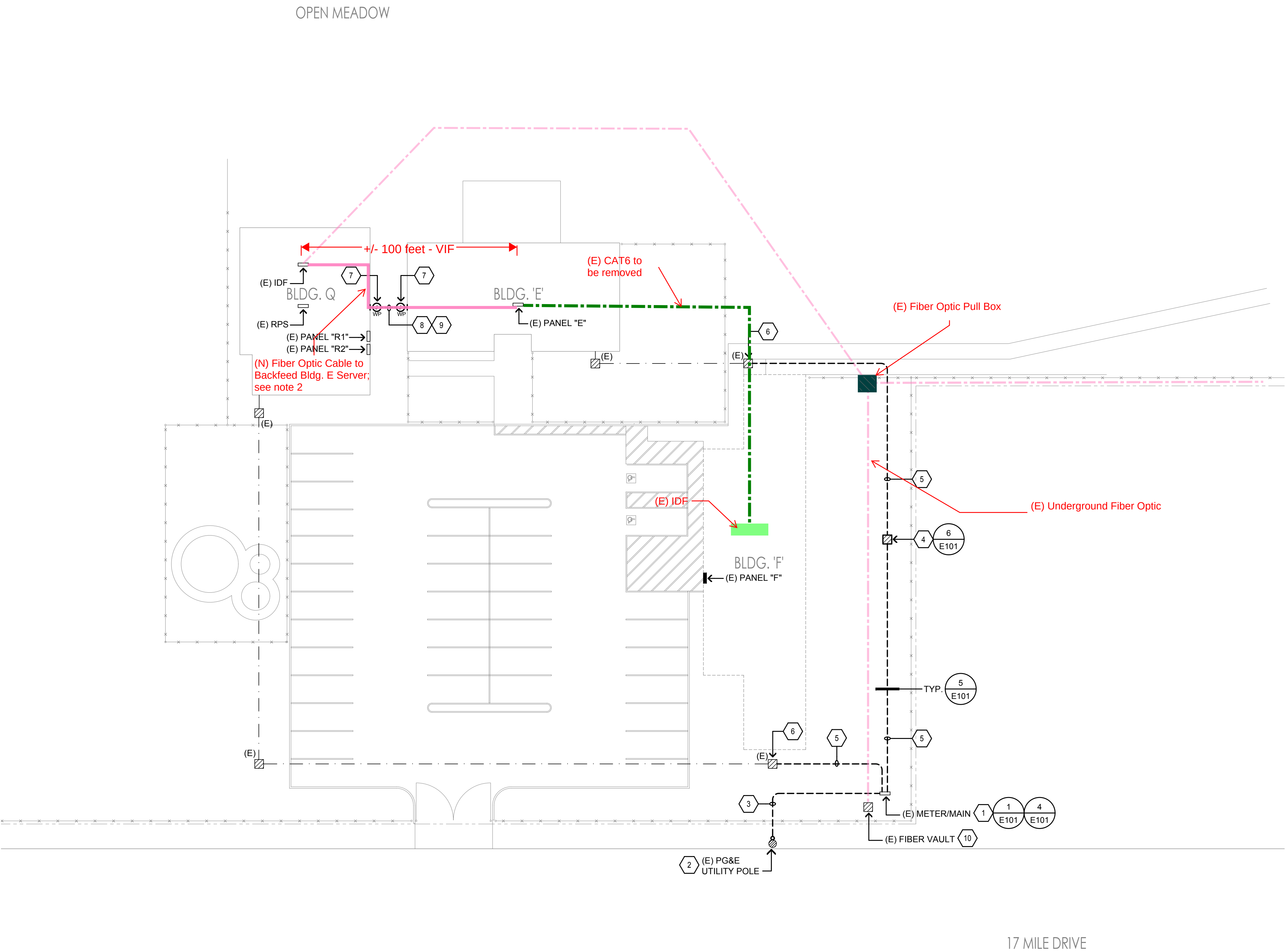
Revision:

Date: October 2025

Job Number:

1720.02

# EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE



## Scope of Work Narrative

The existing IDF/CAT6 connection between Bldg. F and Bldg. E will be removed during demolition. Contractor shall install new single-mode fiber from the Bldg. Q IDF to Bldg. E to re-establish network connectivity.

## NOTES

1. Existing CAT6 line from Bldg. F to Bldg. E to be removed permanently.
2. Feed a new OS2, single-mode, Meraki MS 350-24X compatible fiber optic cable or approved equal in new underground conduit.
3. Pull back and coil any other existing fiber lines servicing Bldg. F to nearest pull box. Tag and save off for future use.
4. Field verify all conduits and routes prior to starting installation.

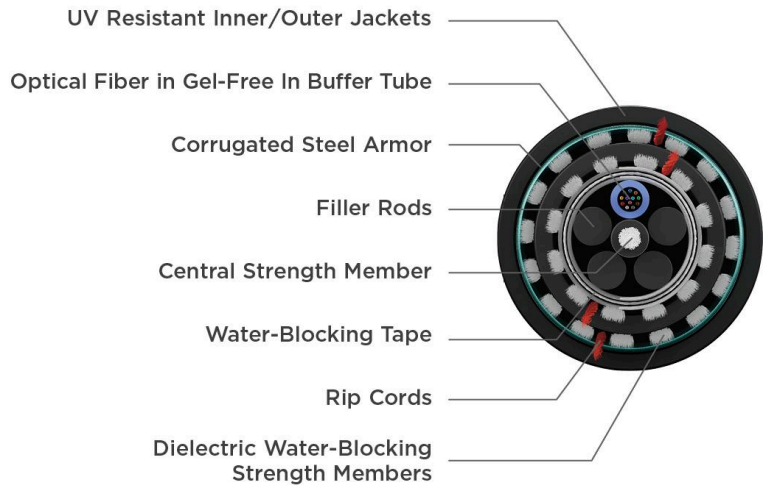
EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE

Sample of compatible fiber cable. Alternative product may be proposed as seen fit.  
Contractor to provide submittal prior to install.

12 Fiber SM-RWP Dri-Lite® Loose Tube, Double Jacket, Single Armor

Part Number:1A0123D01

Status:Made-to-Order



| GENERAL SPECIFICATIONS |           |
|------------------------|-----------|
| Jacket                 | MDPE      |
| Jacket Color           | Black     |
| End User Application   | OSP       |
| Environment            | Outdoor   |
| Water-Blocking         | Dri-Lite® |

| FIBER SPECIFICATIONS |                    |
|----------------------|--------------------|
| Fiber Type           | SMF, RWP, OS1, OS2 |

| FIBER SPECIFICATIONS |                                    |
|----------------------|------------------------------------|
| Fibers               | 12                                 |
| Strength Element     | Glass Reinforced Plastic (GRP) Rod |
| Fiber Optic Shield   | STEEL-C                            |
| Fiber Buffer Type    | 250 micron                         |

| PHYSICAL CHARACTERISTICS |             |
|--------------------------|-------------|
| Package Type             | Wooden Reel |

Product Description

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The rugged loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape then encased with a black inner jacket. Water-blocking yarns and a corrugated steel armor are applied and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and armor for ease of entry.

- Applications
- Direct bury, underground duct and lashed aerial
  - Trunk, distribution and feeder cable
  - Local loop, metro, long-haul and broadband network

| Features                                                                                                                                                                                                                                                                           | Benefits                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Available with up to 288-fiber</li><li>• Multiple fiber types including composites</li><li>• Dry (SAP) core standard</li><li>• Standard tube size for all fiber counts</li><li>• Corrugated steel armor</li><li>• Gel-free tubes</li></ul> | <ul style="list-style-type: none"><li>• High fiber density</li><li>• Multiple network applications</li><li>• Reduces cable prep and installation time</li><li>• Reduces the number of tools required</li><li>• Improves compressive strength and rodent protection</li><li>• Speeds fiber access and cleaning</li></ul> |

# EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE

*Datasheet of owner provided access switch hardware for reference. Ensure fiber cable is compatible with specified model below, MS350-24X. For informational purposes only.*



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## MS350 Datasheet

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### Overview

The Cisco Meraki MS350 series provides 10G SFP+ uplinks and high-performance access switching for large enterprise and campus networks. The switch includes optional PoE/PoE+ support, highly scalable Layer 3 routing and modular power/fans for mission-critical networks. The family features the MS350-24X which includes 8 multigigabit (mGig) ports and UPoE support for high-performance 802.11ax/ac access points, servers, and workstations.



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### Features

- Managed via Cisco Meraki Dashboard
  - Remote Packet Capture Tools via Meraki Dashboard
  - Automatic Firmware upgrades
  - SNMP/Syslog Integration
  - IPv4/6 ACL support
  - 802.1q VLAN tagging
  - L3 routing including OSPF
  - Broadcast Storm Control
  - 2x Dedicated Stack Ports providing 160G of Stacking bandwidth
  - Dynamic ARP Inspection / DHCP Snooping
  - 802.1X Authentication
  - 10/100/1000 Mbps RJ45
  - 4x 1000/10000 Mbps SFP+
  - 8x 100M/1G/2.5G/5G/10G mGbE RJ45 (MS350-24X only)
  - PoE+ models available for device level powering
  - Warm Spare capable
-

# EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE

## Configuration

The basic initial configuration of the MS350 is just as simple as any other model of MS switch. The links below provide additional information and instructions relating to each step in getting the device setup and configured for the first time.

1. [Claim the device to an Organization on the Meraki Dashboard](#)
  - a. If a Dashboard Organization does not yet exist, [Create one](#)
2. [Add the device to a Dashboard Network](#)
  - a. If a Network does not yet exist, [Create one first](#)
3. Physically connect the device to the local network
  - a. Connect one of the RJ45 ports to existing infrastructure to provide a temporary uplink
  - b. Power on the device and let it check in to the Dashboard
  - c. If necessary, configure a Static IP through the [Local Status Page](#) to allow it to communicate with the Meraki Dashboard.
4. Allow the device to complete check-in and perform any initial firmware upgrades
5. Finish configuring the device from the Meraki Dashboard
  - a. [Create a Switch Stack](#)
  - b. [Manage local VLANs / Port configuration](#)
  - c. [Configure Layer 3 Routing](#)

## Context and Comparisons

|                                 | MS350-24P | MS350-24X |
|---------------------------------|-----------|-----------|
| 1GbE RJ45                       | 24        | 16        |
| 10GbE SFP+                      | 4         | 4         |
| mGbE RJ45 (100M/1G/2.5G/5G/10G) | -         | 8         |
| Hardware Stack Port             | 2         | 2         |
| Dedicated Mgmt Interface        | 1         | 1         |
| Hot Swap Power Supply           | Yes, Dual | Yes, Dual |
| Hot Swap Fans                   | Yes       | Yes       |
| Layer 3 Routing                 | Yes       | Yes       |
| UPoE Capable                    | -         | Yes       |
| Max Stacking Bandwidth          | 160 Gbps  | 160 Gbps  |
| Max Switching Capacity          | 128 Gbps  | 272 Gbps  |

Datasheet of owner provided access switch hardware for reference. Ensure fiber cable is compatible with specified model, MS350-24X. For informational purposes only.

# EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE



Refer to the [MS Family Datasheet](#) for more details around compatible SKUs for power supplies, stacking cables, redundant fans etc for different switch models.

## Technical Breakdown

### Hardware Breakdown

#### MS350-24 Models

|                                 | MS350-24  | MS350-24P | MS350-24X |
|---------------------------------|-----------|-----------|-----------|
| 1GbE RJ45                       | 24        | 24        | 16        |
| 10GbE SFP+                      | 4         | 4         | 4         |
| mGbE RJ45 (100M/1G/2.5G/5G/10G) | -         | -         | 8         |
| 40G Hardware Stack Port         | 2         | 2         | 2         |
| Dedicated Mgmt Interface        | 1         | 1         | 1         |
| Hot Swap Fans                   | Yes       | Yes       | Yes       |
| Hot Swap Power Supply           | Yes, Dual | Yes, Dual | Yes, Dual |
| Layer 3 Switching               | Yes       | Yes       | Yes       |
| UPoE Capable                    | -         | -         | Yes       |

#### MS350-48 Models

|                          | MS350-48  | MS350-48LP | MS350-48FP |
|--------------------------|-----------|------------|------------|
| 1GbE RJ45                | 48        | 48         | 48         |
| 10GbE SFP+               | 4         | 4          | 4          |
| mGbE RJ45                | -         | -          | -          |
| 40G Hardware Stack Port  | 2         | 2          | 2          |
| Dedicated Mgmt Interface | 1         | 1          | 1          |
| Hot Swap Fans            | Yes       | Yes        | Yes        |
| Hot Swap Power Supply    | Yes, Dual | Yes, Dual  | Yes, Dual  |
| Layer 3 Routing          | Yes       | Yes        | Yes        |

Datasheet of owner provided access switch hardware for reference. Ensure fiber cable is compatible with specified model, MS350-24X. For informational purposes only.

# EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE

UPoE Capable - - -

Network ports on the MS350 switches operate at full-duplex; half-duplex operation is not supported

**Cabling Best Practices for Multi-Gigabit operations:** While Category-5e cables can support multigigabit data rates upto 2.5/5 Gbps, external factors such as noise, alien crosstalk coupled with longer cable/cable bundle lengths can impede reliable link operation. Noise can originate from cable bundling, RFI, cable movement, lightning, power surges and other transient event. It is recommended to use Category-6a cabling for reliable multigigabit operations as it mitigates alien crosstalk by design.

## Throughput and Capabilities

### MS350-24 Models

|                    | MS350-24 | MS350-24P | MS350-24X           |
|--------------------|----------|-----------|---------------------|
| Layer 3 Routing    | Yes      | Yes       | Yes                 |
| PoE+ Capable       | -        | Yes, 370W | Yes, 740W           |
| UPoE Capable       | -        | -         | Yes (8 mGbe ports)* |
| Switching Capacity | 128 Gbps | 128 Gbps  | 176 Gbps            |
| Stacking Bandwidth | 160 Gbps | 160 Gbps  | 160 Gbps            |

\* UPoE (802.3bt) will require the following to provide class 5 (45W) and class 6 (60W) power to devices:

- The switch must be running the latest firmware version
- Backend configuration to be applied by Meraki Support

### MS350-48 Models

|                    | MS350-48 | MS350-48LP | MS350-48FP |
|--------------------|----------|------------|------------|
| Layer 3 Routing    | Yes      | Yes        | Yes        |
| PoE+ Capable       | -        | Yes, 370W  | Yes, 740W  |
| UPoE Capable       | -        | -          | -          |
| Switching Capacity | 176 Gbps | 176 Gbps   | 176 Gbps   |
| Stacking Bandwidth | 160 Gbps | 160 Gbps   | 160 Gbps   |

## Physical

Datasheet of owner provided access switch hardware for reference. Ensure fiber cable is compatible with specified model, MS350-24X. For informational purposes only.

EXHIBIT B: PGUSD ADULT SCHOOL DEMOLITION - FIBER REROUTE

MS350-24 Models

|                        | MS350-24                                          | MS350-24P                                         | MS350-24X                                          |
|------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------------------------------|
| Mount Type             | 1U Rack Mount                                     | 1U Rack Mount                                     | 1U Rack Mount                                      |
| Dimensions (h x w x d) | 1.72 x 19.07 x 18.85in<br>(4.38 x 48.46 x 47.9cm) | 1.72 x 19.07 x 18.85in<br>(4.38 x 48.46 x 47.9cm) | 1.72 x 19.07 x 20.32in<br>(4.38 x 48.46 x 51.62cm) |
| Weight                 | 12.37 lb (5.61 kg)                                | 13.14 lb (5.96 kg)                                | 14.48 lb (6.6 kg)                                  |
| Power Load (idle/max)  | 56 / 66 W                                         | 57 / 466 W                                        | 215 / 867 W                                        |
| Operating Temperature  | 23 °F - 122 °F<br>-5°C - 50°C                     | 23 °F - 122 °F<br>-5°C - 50°C                     | 23 °F - 122 °F<br>-5°C - 50°C                      |
| Humidity               | 5% to 95%                                         | 5% to 95%                                         | 5% to 95%                                          |

MS350-48 Models

|                        | MS350-48                                          | MS350-48LP                                         | MS350-48FP                                         |
|------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Mount Type             | 1U Rack Mount                                     | 1U Rack Mount                                      | 1U Rack Mount                                      |
| Dimensions (h x w x d) | 1.72 x 19.07 x 18.85in<br>(4.38 x 48.46 x 47.9cm) | 1.72 x 19.07 x 18.85in<br>(4.38 x 48.46 x 47.90cm) | 1.72 x 19.07 x 20.32in<br>(4.38 x 48.46 x 51.62cm) |
| Weight                 | 11.56 lb (5.24 kg)                                | 12.37 lb (5.61 kg)                                 | 12.83 lb (5.82 kg)                                 |
| Power Load (idle/max)  | 56 / 63 W                                         | 63 / 478 W                                         | 69 / 888 W                                         |
| Operating Temperature  | 23 °F - 122 °F<br>-5°C - 50°C                     | 23 °F - 122 °F<br>-5°C - 50°C                      | 23 °F - 122 °F<br>-5°C - 50°C                      |
| Humidity               | 5% to 95%                                         | 5% to 95%                                          | 5% to 95%                                          |

Datasheet of owner provided access switch hardware for reference. Ensure fiber cable is compatible with specified model, MS350-24X. For informational purposes only.