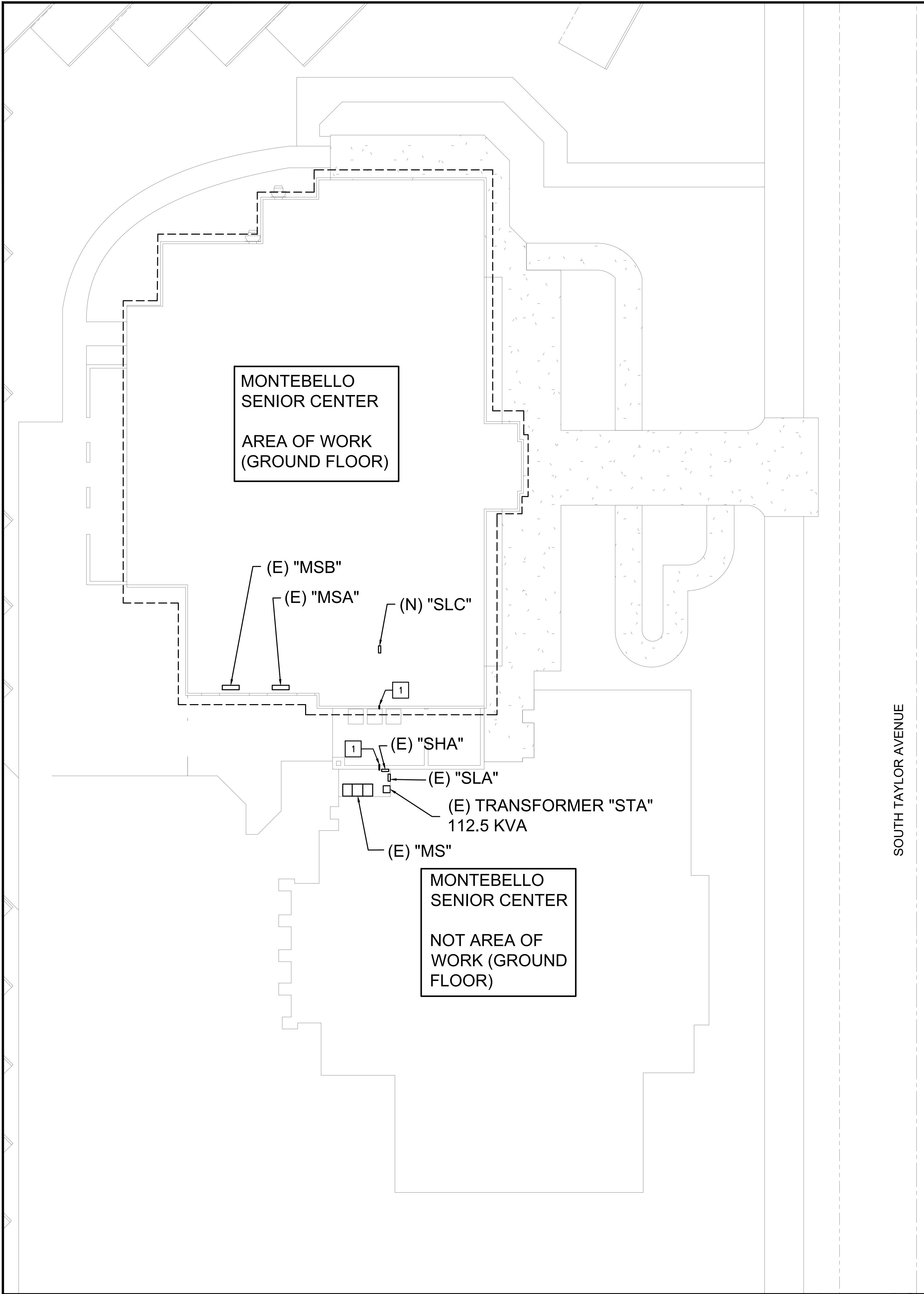


GENERAL NOTES		ABBREVIATIONS		ELECTRICAL SPECIFICATIONS																					
1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND REGULATIONS. 2. MINIMUM SIZE OF CONDUIT SHALL BE 1/2", MINIMUM SIZE OF CONDUCTOR SHALL BE #12 AWG UNLESS OTHERWISE NOTED. 3. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN. 4. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED. 5. ALL JUNCTION BOXES AND PULL BOXES SHALL BE OF CODE GAUGE AND OF THE REQUIRED SIZE TO ACCOMMODATE NUMBER OF CONDUCTORS SHOWN. 6. ALL PULL BOXES IN FINISHED AREAS SHALL HAVE FACTORY APPLIED PRIME COAT OF PAINT. 7. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL, PLUMBING, KITCHEN EQUIPMENT AND REFRIGERATION AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK. 8. ALL PANELBOARDS SHALL HAVE LOCKING DOOR AND BE KEYED FOR A CORBIN #60 KEY UNLESS OTHERWISE NOTED. 9. STUB OUT (2) 1" CONDUITS FROM ALL FLUSH MOUNTED PANELBOARDS INTO ACCESSIBLE CEILING SPACE AND CAP FOR FUTURE USE. 10. ELECTRICAL CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. 11. ALL MOUNTING HEIGHTS SHOWN ARE TO CENTER LINE OF OUTLET OR DEVICE AND SHALL APPLY UNLESS INDICATED OTHERWISE. 12. DRAWINGS ARE DIAGRAMMATIC AND INDICATED GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES. 13. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS, AT OR NEAR DOOR. INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK. 14. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR CLOCKS, SWITCHES, HORNS FIRE ALARM STRIKE STATIONS, SPEAKERS, RECEPTACLES ETC. 15. WHERE ELECTRONIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT. 16. EXPOSED RACEWAYS (WHEN INDICATED ON DRAWINGS) SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. 17. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS. 18. FURNISH FISH WIRE IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED. 19. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED. 20. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. 21. SUPPORT PANELBOARDS, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS. 22. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES. 23. SEE MECHANICAL, PLUMBING, KITCHEN EQUIPMENT AND REFRIGERATION DRAWINGS FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS AND TRANSFORMERS, SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED. 24. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE. 25. NO CONDUIT RUNS WILL BE ALLOWED IN CONCRETE SLAB. ALL CONDUITS WILL BE PLACED IN THE HUNG CEILING UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND. 26. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK. 27. CONTACT UTILITY COMPANIES FOR SCOPE OF WORK PRIOR TO SUBMITTING BID, INCLUDE UTILITY CHARGES IF ANY. 28. WHERE MORE THAN (1) ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. 29. WHERE MOUNTING HEIGHTS OR DIMENSIONS OF DEVICE LOCATIONS ARE SHOWN, CONTRACTOR SHALL CONFIRM SUCH DIMENSIONS WITH ARCHITECTURAL DRAWINGS. WHERE CONFLICT IN DIMENSIONS OCCUR BETWEEN DRAWINGS, OR WHERE NO DIMENSIONS OR MOUNTING HEIGHTS ARE INDICATED ON EITHER SET OF DRAWINGS, CONTRACTOR SHALL VERIFY THESE ITEMS WITH ARCHITECT IN FIELD PRIOR TO ROUGH-IN. 30. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROTECTED BY MATERIALS TESTED IN ACCORDANCE WITH UL1479/ASTM E-814. INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND MAINTAIN THE FIRE RATING OF WALLS AND/OR FLOORS AFFECTED. PROVIDE HILTI CS240 FIRESTOP SEALANT, CSFM LISTING NO. 4060-1200-100, OR EQUIVALENT STATE FIRE MARSHALL APPROVED AND LISTED MATERIAL. REFER TO 5E4.1 FOR DETAIL. 31. WHERE LIGHTING FIXTURES ARE FOR LAY-IN MOUNTING IN AN EXPOSED RUNNER TYPE OF CEILING, PROVIDE EACH FIXTURE WITH CLIPS (4 REQUIRED) OR EQUIVALENT MEANS TO PREVENT THE ACCIDENTAL DISENGAGEMENT OF THE FIXTURE FROM THE CEILING. WHERE FIXTURES IN SUCH CEILINGS ARE SQUARE OR RECTANGULAR IN SHAPE, PROVIDE EACH FIXTURE WITH FOUR (4) #12 AWG GALVANIZED STEEL WIRES WITHIN 3 INCHES OF EACH OF THE CORNERS, AND SECURE TO THE BUILDING STRUCTURE AS REQUIRED. 32. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN, U.O.N. CONDUCTORS IN CONDUIT EXPOSED ON THE ROOF SHALL HAVE 90° INSULATION (THWN-2), #12 AND SMALLER SHALL BE SOLID TYPE, AND #10 AWG AND LARGER SHALL BE STRANDED. 33. TRANSFORMER INSULATION SHALL BE SUITABLE FOR 150° AVERAGE TEMPERATURE RISE. SEE SPECIFICATIONS FOR DETAILS. 34. ALL RECEPTACLE OUTLETS SERVING COMPUTER EQUIPMENT SHALL HAVE A SEPARATE ISOLATED, INSULATED GROUND WIRE - SEPARATED NEUTRAL FOR EACH CIRCUIT OR OVERSIZE NEUTRAL (#10) FOR MULTI-CIRCUITS. 35. ALL CONDUITS SHALL BE ELECTRICAL METALLIC TUBING AND RIGID STEEL CONDUIT ONLY. PROVIDE APPROPRIATE COUPLINGS, CONNECTORS AND OTHER FITTINGS AS REQUIRED. 36. EMERGENCY CIRCUITS SHALL BE ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL NOT ENTER SAME RACEWAY, BOXES OR CABINETS WITH OTHER WIRING EXCEPT WHERE PROVIDED IN NEC 700-96. 37. RECESSED FIXTURE IN FIRE RATED ASSEMBLY SHALL BE APPROVED PRIOR TO INSTALLATION UBC-4304. 38. BOXES SHALL BE SECURED AS PER ART 370-13. 39. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER LISTING OR LABELING (i.e. MAX. FUSE SIZE MEANS FUSE PROTECTION REQUIRED), AND SHALL BE INSTALLED AS APPROVED. 40. ALL EQUIPMENT SHALL BE LISTED BY AN ACCEPTED TESTING LAB AND BEAR THE LISTING STICKER IN AN ACCESSIBLE LOCATION. 41. SUBMIT TORQUE CERTIFICATE FOR ALL ELECTRICAL EQUIPMENT/CONNECTIONS PRIOR TO CERTIFICATE OF OCCUPANCY ISSUANCE. 42. CONSULT WITH DISTRICT INSPECTOR BEFORE STARTING WORK. 43. ALL RACEWAYS/CONDUITS FOR POWER SHALL HAVE A GREEN INSULATED GROUNDING CONDUCTOR. 44. FIRE ALARM DESIGN SHALL BE BY OTHERS. UPGRADE FIRE ALARM SYSTEM TO ACCOMMODATE INTERIM HOUSING LOADS. EXISTING FIRE ALARM SHALL NOT BE INTERRUPTED THOUGH THE DURATION OF THE PROJECT. IMPAIRMENT OF THE SYSTEM WILL REQUIRE CONTINUOUS FIRE WATCH UNTIL IT IS RESTORED. 45. NO ATTACHMENT SHALL BE MADE WITHIN THE PROTECTED ZONES OF LFRS (LATERAL FORCE RESISTING SYSTEM), SUCH AS STEEL MOMENT FRAME BEAM TO COLUMN CONNECTIONS OR STEEL BRACED FRAME BRACES AND GUSSET PLATE CONNECTIONS. COORDINATE THE LOCATIONS OF THE PROTECTED ZONES WITH THE SEOR. 46. PIPES OR CONDUITS SHALL NOT BE EMBEDDED IN ANY FLOOR SLAB, WALL, OR FOOTING BUT MAY BE PENETRATED PER APPROVED PENETRATION DETAILS. 47. UNLESS SPECIFICALLY APPROVED ON THE DRAWINGS, NO STRUCTURAL MEMBERS SHALL BE ALTERED BY CUTTING, BORING, BRAZING, DRILLING, NOTCHING, WELDING, AND ETC. WITHOUT THE SEOR AND DSA APPROVAL. 48. MODIFICATIONS/ALTERATIONS TO THE DSA PC (PRE-CHECK) DRAWINGS, SUCH AS NEW OPENINGS THROUGH ROOF, FLOOR SLAB, OR WALLS ARE NOT ACCEPTABLE UNLESS OTHERWISE ALLOWED. 49. PROVIDE NEW OPENING REPAIR DETAILS THROUGH ROOF, FLOOR SLABS, OR WALLS. SHOW ALL NEW FLOOR SLAB, ROOF SLAB, OR WALL OPENINGS ON STRUCTURAL DRAWINGS ALONG WITH ALL (E) ADJACENT OPENINGS BASE ON THE FIELD SURVEY. PROVIDE THE SEOR'S REVIEW AND ACCEPTANCE NOTE FOR EACH CORE LOCATION AS A PART OF RESPONSES TO PLAN REVIEW COMMENTS. 50. PROVIDE (E) OPENING INFILL/PATCHING DETAILS THROUGH ROOF OR FLOOR SLABS OR WALLS. 51. PROVIDE FLEXIBLE CONNECTIONS TO ALL HVAC EQUIPMENT (A/C UNIT, FANS, ETC.) 52. REGARDING PREFAB EQUIPMENT CURBS, PROVIDE OSHPD OPM OR STRUCTURAL CALC'S BY S.E. LICENSED IN CALIFORNIA. 53. FOR MEP DISTRIBUTED SYSTEMS (CONDUITS, DUCTS, PIPES, ETC.) THRU THE SEISMIC JOINTS, SHOW THAT FLEXIBLE CONNECTIONS CAN ACCOMMODATE THE MAX. INELASTIC BLDG. SEISMIC DRIFT. SEE THE SEOR. AC ABOVE COUNTER AFF ABOVE FINISHED FLOOR AH AIR HANDLER APS ARIZONA PUBLIC SERVICE (SERVICE UTILITY CO.) ACTV CLOSED CIRCUIT TELEVISION (SURVEILLANCE) CU CONDENSING UNIT DDC DIRECT DIGITAL CONTROL (E) EXISTING TO REMAIN EC EMPTY CONDUIT EF EXHAUST FAN EWG ELECTRIC WATER COOLER EXP EXPLOSION - PROOF FAA FIRE ALARM ANNIUNCIATOR FACP FIRE ALARM CONTROL PANEL FC FAN COIL G EQUIPMENT GROUNDING CONDUCTOR GFCI GROUND FAULT CIRCUIT INTERRUPTER (PERSONNEL) GFP GROUND FAULT PROTECTION (EQUIPMENT) GWH GAS WATER HEATER HWP HOT WATER CIRC PUMP IC INTERCOM IG ISOLATED GROUND KS KNEE SPACE LIC LIGHTING CONTACTOR LTG LIGHTING MATV MASTER ANTENNA TELEVISION MCC MOTOR CONTROL CENTER N NEUTRAL NL NIGHT LIGHT PB PULLBOX UGPB UNDERGROUND PULLBOX U.O.N. UNLESS OTHERWISE NOTED PNL PANELBOARD RF RETURN AIR FAN RH RANGE HOOD RIO ROUGH-IN ONLY SC SHORT CIRCUIT CURRENT RATING SES SERVICE ENTRANCE SWITCHBOARD(S) SF SUPPLY FAN SMB SPECIAL SYSTEMS MOUNTING BOARD SPD SURGE PROTECTIVE DEVICE SWD SWITCHBOARD SUSE SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT TMB TELEPHONE MOUNTING BOARD TR TAMPER RESISTANT TV TELEVISION UH UNIT HEATER VR VANDAL RESISTANT WG WIREGUARD WP WEATHERPROOF (NEMA-3R) 1. NFPA 70, NATIONAL ELECTRICAL CODE, 2023 EDITION 2. CALIFORNIA BUILDING CODE, PART 2, TITLE 24, 2022 EDITION 3. CALIFORNIA BUILDING CODE, PART 3, TITLE 24, 2022 EDITION 4. CALIFORNIA BUILDING CODE, PART 4, TITLE 24, 2022 EDITION 5. CALIFORNIA FIRE CODE, TITLE 24, PART 9, TITLE 24, 2022 EDITION 6. NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION E1.0 ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS E2.0 ELECTRICAL SITE PLAN E3.0 ELECTRICAL DEMO PLAN E3.1 ELECTRICAL FIRST FLOOR DEMO PLAN E4.0 ELECTRICAL RENOVATED POWER PLANS E4.1 ELECTRICAL FIRST FLOOR LIGHTING & POWER PLANS E5.0 ELECTRICAL RENOVATED LIGHTING PLAN E6.0 EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS E7.0 ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULES E8.0 ELECTRICAL DETAILS E9.0 INTERIOR TITLE 24 CALCULATIONS E10.0 EXTERIOR TITLE 24 CALCULATIONS LED DOWNLIGHT LIGHT FIXTURE. LED DOWNLIGHT FIXTURE WITH BATTERY BACKUP SURFACE MOUNTED LIGHT FIXTURE. EXIT SIGN WITH BATTERY BACKUP LOCATED BOTTOM AT 7'-6" A.F.F. 2'X4' LED LIGHT FIXTURE RECESSED MOUNTED 2'X4' LED LIGHT FIXTURE WITH EMERGENCY BATTERY SINGLE POLE SWITCH, +3'-10" OR AS NOTED. DIMMER SWITCH, +3'-10" OR AS NOTED. DUPLEX RECEPTACLE, +18" OR AS NOTED. QUAD RECEPTACLE, +18" OR AS NOTED. GROUND FAULT RECEPTACLE, +18" OR AS NOTED. WEATHER PROOF, G.F.I. PROTECTED RECEPTACLE. SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED. NONE FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH MOTOR CONNECTION. 120/208V., PANELBOARD, TOP 6'-0". A.F.F. ABOVE FINISHED FLOOR. WP WEATHERPROOF. SECTION 260010 - BASIC ELECTRICAL REQUIREMENTS 1. <u>SCOPE</u> THE DRAWINGS AND THESE SPECIFICATIONS DESCRIBE THE SYSTEMS. FURNISH ALL MATERIALS AND DO ALL WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, FURNISH AND INSTALL ALL NEW MATERIAL AND EQUIPMENT AS REQUIRED TO PRODUCE A COMPLETE OPERATING SYSTEM. 2. <u>VERIFYING EXISTING CONDITIONS</u> BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST. 3. <u>COORDINATION</u> COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. LOCATIONS OF ELECTRICAL EQUIPMENT, J-BOXES, AND CONDUIT RUNS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY FOR EXACT LOCATION AND ROUTING OF EXISTING EQUIPMENT AND COORDINATE ALL NEW WORK WITH THE OTHER DISCIPLINES TO AVOID CONFLICTS. THIS CONTRACTOR IS TO OBTAIN AND REFER TO H.V.A.C., PLUMBING AND OTHER DRAWINGS AND PROVIDE ALL CONTROL WIRING, RELAYS, STARTERS, TIME SWITCHES, CONDUITS, ETC. INDICATED THEREON AS BEING PROVIDED UNDER THE ELECTRICAL WORK. 4. <u>SERVICE CONTINUITY</u> UNINTERRUPTED SERVICES, INCLUDING LIFE SAFETY SYSTEMS WHERE APPLICABLE, SHALL BE MAINTAINED TO ALL PARTS OF THE BUILDING OTHER THAN WORK AREAS. SCHEDULE SHUTDOWNS WITH THE OWNER, TO MAKE ALTERATIONS AND/OR ADDITIONS TO MAIN SWITCHGEAR, ASSEMBLIES, FEEDERS. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. REQUESTS FOR SHUTDOWN SHALL BE MADE AT LEAST 72 HOURS IN ADVANCE TO THE OWNER AT WHICH TIME THE OWNER SHALL SCHEDULE THE EXACT TIME AND DATE. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND TOTAL OVERTIME MANHOURS REQUIRED FOR COMPLETION. 5. <u>AS BUILT</u> PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR. 6. <u>GUARANTEE</u> CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR, EXCEPT FOR LIGHTING FIXTURE LAMPS. 7. <u>SHOP DRAWINGS</u> ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTING. SUBMITTALS SHALL INCLUDE THE PROJECT NAME AND CONTRACTORS NAME. SUBMIT SIX SETS OF SHOP DRAWINGS AND AWAIT ENGINEERING REVIEW COMMENTS PRIOR TO PURCHASING ALL PANELBOARDS, LIGHTING FIXTURES AND LENSES, POWER DISTRIBUTION UNITS, CONTRACTORS, AND DISCONNECT SWITCHES. 8. <u>CONTRACTOR BID</u> CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. ALL PREMIUM TIME COSTS REQUIRED SHALL BE INCLUDED IN THE BID. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK OR THE WORK OF OTHER CONTRACTORS. 9. <u>DEMOLITION</u> COORDINATE ALL DEMOLITION WITH THE NEW REQUIREMENTS TO ASSURE THAT EXISTING EQUIPMENT, WIRING, ETC., THAT IS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM IS NOT REMOVED. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, WHEN NOT INDICATED IN THE DRAWINGS. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP. 10. <u>EXECUTION</u> CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINED SPACE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY AT NO COST TO OWNER. DO ALL CUTTING AND PATCHING OF FLOORS, WALLS, CEILINGS, ETC., TO MATCH EXISTING. SCHEDULE CUTTING AND PATCHING OF FLOORS WITH THE OWNER. CORE DRILLING FOR CONCRETE WILL BE THE ONLY METHOD PERMITTED. ANY EXISTING CONDUITS, PIPING, ETC. DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE INSTALLED AND/OR RECONNECTED AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. NO ADDITIONAL CHARGES WILL BE ALLOWED FOR ANY EQUIPMENT WHICH IS DAMAGED BY THIS CONTRACTOR DUE TO THE INSTALLATION OF THE WORK OR FOR PUTTING EXISTING SYSTEMS BACK INTO A COMPLETE OPERATING CONDITION. PAINTE ALL NEW EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS TO MATCH ADJACENT SURFACES IN FINISHED AREAS. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURES FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. 11. <u>MATERIAL AND INSTALLATION</u> ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP. ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.) OR ANOTHER ACCEPTABLE INDEPENDENT TESTING LABORATORY. 12. <u>MATERIAL AND INSTALLATION</u> FURNISH ALL LABOR AND TEST EQUIPMENT AND SYSTEMS REQUIRED UNDER THIS DIVISION. TEST CIRCUITS FOR GROUNDS OR SHORTS. REPAIR DEFECTIVE WIRING AS REQUIRED. TEST CIRCUIT CONNECTED TO EQUIPMENT AT PANEL BOARD FOR PROPER OPERATION. UPON COMPLETION OF WORK, MAKE FINAL INSPECTION, OPERATE EQUIPMENT UNDER NORMAL CONDITIONS, TO SATISFACTION OF ENGINEER. UPON COMPLETION OF WORK, PROVIDE WRITTEN CERTIFICATION THAT ALL SYSTEMS ARE FUNCTIONING PROPERLY WITHOUT DEFECTS. SECTION 260130 - CONDUCTORS 260131-1 DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL SIZE, TYPE, MANUFACTURER'S TRADE NAME AND THE DATE MANUFACTURED (MUST BE MANUFACTURED WITHIN 6 MONTHS). 260131-2 PROVIDE COPPER CONDUCTORS. #12 AWG MINIMUM, UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE 1/2" CONDUIT FOR SOLID CONDUCTORS, #10 AWG AND SMALLER UNLESS OTHERWISE NOTED. PROVIDE STRANDED CONDUCTORS, #8 AWG AND LARGER UNLESS OTHERWISE NOTED. AT EQUIPMENT SUBJECT TO VIBRATION, USE STRANDED CONDUCTORS. 260131-3 USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION. 260131-4 INSTALLATION OF 600 VOLT CONDUCTORS: CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOXES. MAKE SPLICES IN OUTLET BOXES, PULLBOXES OR PANELBOARD GUTTERS. DO NOT SPLICE PANELBOARD FEEDERS. 260131-5 END OF SECTION 260130 SECTION 260526 - GROUNDING 260526-1 EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES, AND CONDUIT RACEWAY TO CODE APPROVED GROUNDS AS PARTS OF CONTINUOUS GROUNDING SYSTEM. 260526-2 ALL FEEDERS AND BRANCH CIRCUIT WIRING SHALL HAVE INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER CEC. 260526-3 END OF SECTION 260526 SECTION 260533 - RACEWAYS AND BOXES 260533-1 ELECTRICAL METALLIC TUBING-STEEL, HOT DIPPED OR ELECTRO-GALVANIZED, MANUFACTURER: ALLIED, WESTERN, OR APPROVED EQUAL. 260533-2 CONDUIT FITTINGS: EMT FITTINGS - STEEL TYPE ONLY (DIE CAST TYPE NOT ACCEPTABLE) CONNECTORS WITH INSULATED THROAT. STRAPS - MALLEABLE IRON, ONE HOLE, HOT DIPPED GALVANIZED, T&B 1200 OR 4100 SERIES. SPACERS - T&B 400 SERIES. 260533-3 METAL CONDUIT: FOR EXPOSED OUTDOOR AREA, USE RIGID STEEL CONDUIT (GRG), ANSI C80.1, INTERMEDIATE METAL CONDUIT (IMC); RIGID STEEL. FITTINGS: ANSINEMA FB 1; ALL STEEL FITTINGS; USE INSULATED STEEL BUSHINGS WITH LUG WHERE GROUND CONNECTIONS ARE REQUIRED. USE PLASTIC BUSHINGS FOR NON-BONDING APPLICATIONS. SET SCREW FITTINGS ARE NOT PERMITTED. DIE CAST OR PRESSURE CAST FITTINGS ARE NOT PERMITTED. CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON. 260533-4 FLEXIBLE METAL CONDUIT: DESCRIPTION: INTERLOCKED STEEL CONSTRUCTION. FITTINGS: ANSINEMA FB 1; ALL STEEL FITTINGS. PROVIDE INSULATED THROAT CONNECTORS. PROVIDE WATERTIGHT SEAL AT OUTDOOR TERMINATION. 260533-5 OUTLET BOXES AND COVERS: IN GENERAL - GALVANIZED ONE-PIECE TYPE, NUMBER OF GANGS AS REQUIRED, AND WITH BOX COVER TO SUIT FINISH. MANUFACTURER: STEEL CITY, RACO, BOWERS, APPLETON, CROUSE-HINDS, KILLARK, PYLE-NATIONAL, OR APPROVED EQUAL. JUNCTION BOXES FOR INTERIOR WORK: STANDARD OUTLET BOXES (4 INCHES SQUARE MINIMUM) WHERE POSSIBLE. WHERE OTHER THAN STANDARD OUTLET BOXES ARE REQUIRED, USE CODE GAUGE SHEET BOX WITH SCREW COVER OF TYPE TO SUIT. 260533-6 END OF SECTION 260533 SECTION 260553 - ELECTRICAL IDENTIFICATION 260553-1 IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVERCURRENT DEVICE, LOAD END, AND IN PULLBOXES. 260553-2 IDENTIFY BRANCH CIRCUITS WITH CORRESPONDING CIRCUIT DESIGNATION AT THE OVERCURRENT DEVICE, AT ALL SPLICES, AND IN JUNCTION BOXES. 260553-3 MARK CIRCUIT DESIGNATION ON ALL JUNCTION BOX COVERS. CIRCUIT DESIGNATION MEANS PANEL DESIGNATION AND CIRCUIT NUMBER, I.E., G650-1. 260553-4 END OF SECTION 260553 <tr><td colspan="2"> UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA CONTACT 811 BEFORE YOU DIG SAFE DIGGING PARTNER ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153. </td><td> REVISIONS <table><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>1</td><td>04/13/2026</td><td>REVISION 1</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> </td><td> UNDER THE SUPERVISION OF: E&A CONSULTING ENGINEERS MECHANICAL - ELECTRICAL - PLUMBING 18528 LOCKSLEY STREET SAN DIEGO CA 92128 </td><td> CITY OF MONTEBELLO SENIOR CENTER REMODEL 115 S Taylor Ave, Montebello,CA 90640 ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS Department of Public Works </td><td> Sheet Number: E1.0 </td></tr>		UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA CONTACT 811 BEFORE YOU DIG SAFE DIGGING PARTNER ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. 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1	04/13/2026	REVISION 1																							



GENERAL NOTES	PLAN NOTES
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	1 FOR ALL CONDUIT/CONDUCTORS ENTERING AND LEAVING BUILDING, REFER TO CONDUIT CROSSING AT SEISMIC JOINTS ON DRAWINGS E-8 FOR ADDITIONAL INFORMATION AND REQUIREMENT.



CONTACT 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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E&A CONSULTING ENGINEERS

MECHANICAL - ELECTRICAL - PLUMBING

18528 LOCKSLEY STREET SAN DIEGO CA 92128

CITY OF MONTEBELLO



Department of Public Works

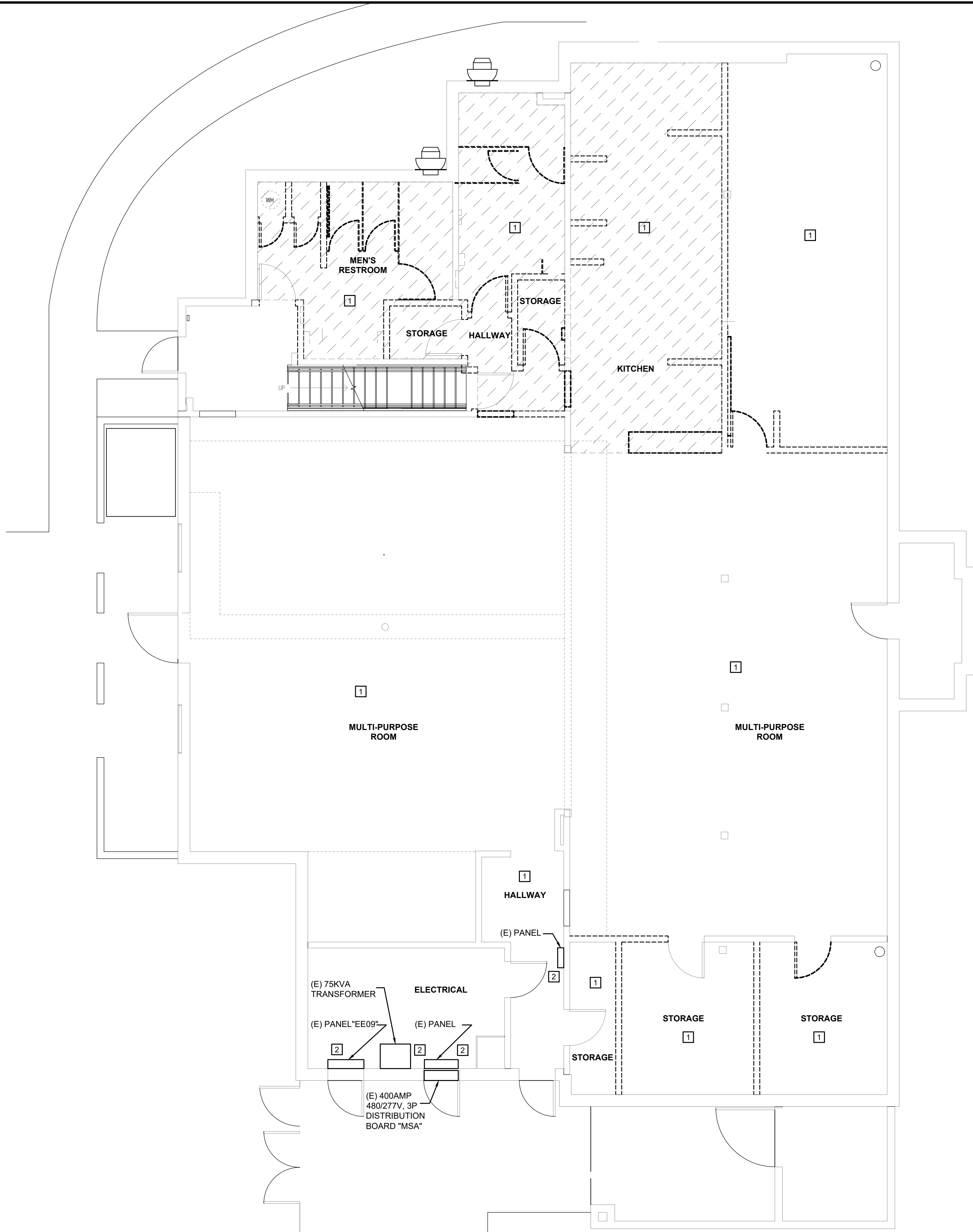
SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

ELECTRICAL SITE PLAN

Sheet Number:

E2.0



GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITIONS.

PLAN NOTES

- 1 ALL EXISTING EQUIPMENT/DEVICES INCLUDING NOT LIMITING TO WIRING DEVICES, LIGHTING FIXTURE, LIGHTING CONTROLS AND THEIR ASSOCIATED CONNECTIONS SHALL BE DISCONNECTED AND REMOVED, FEEDERS SHALL BE DISCONNECTED AND REMOVED ENTIRELY BACK TO THE LAST DEVICE.
- 2 ALL EXISTING EQUIPMENT/DEVICES AND THEIR ASSOCIATED CONNECTIONS SHALL REMAIN UNCHANGED UNLESS OTHERWISE NOTED.

ELECTRICAL BASEMENT DEMO FLOOR PLAN

SCALE
3/16"=1'-0"

1



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Department of Public Works

SENIOR CENTER REMODEL

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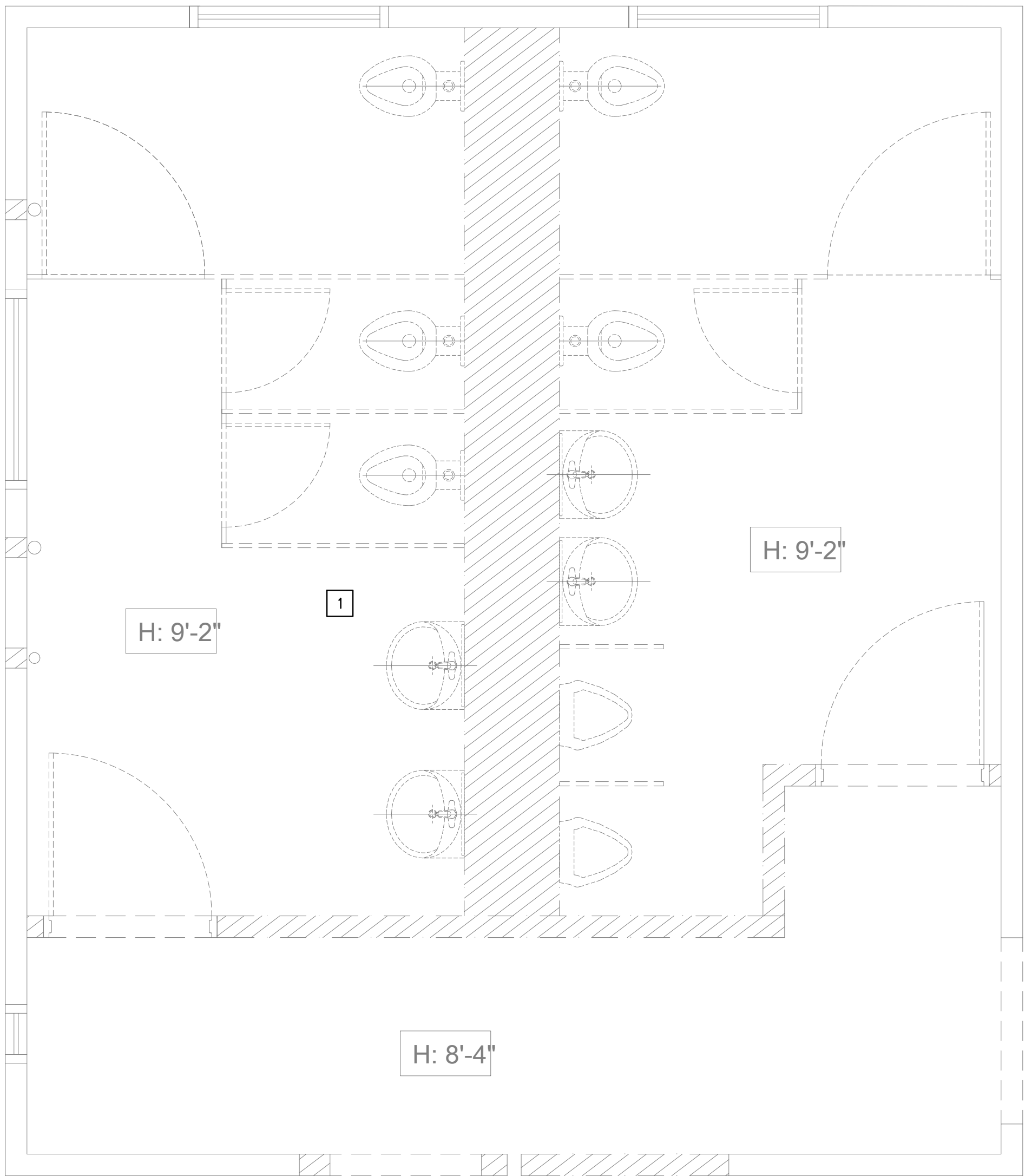
ELECTRICAL DEMO PLAN

Sheet Number:

E3.0

P.N.: 2.1000.03

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED P



ELECTRICAL FIRST FLOOR DEMO PLAN

SCALE
1/2"=1'-0"

1

PLAN NOTES

1 ALL LIGHTING FIXTURES AND ASSOCIATED WIRINGS TO BE DEMOLISHED.



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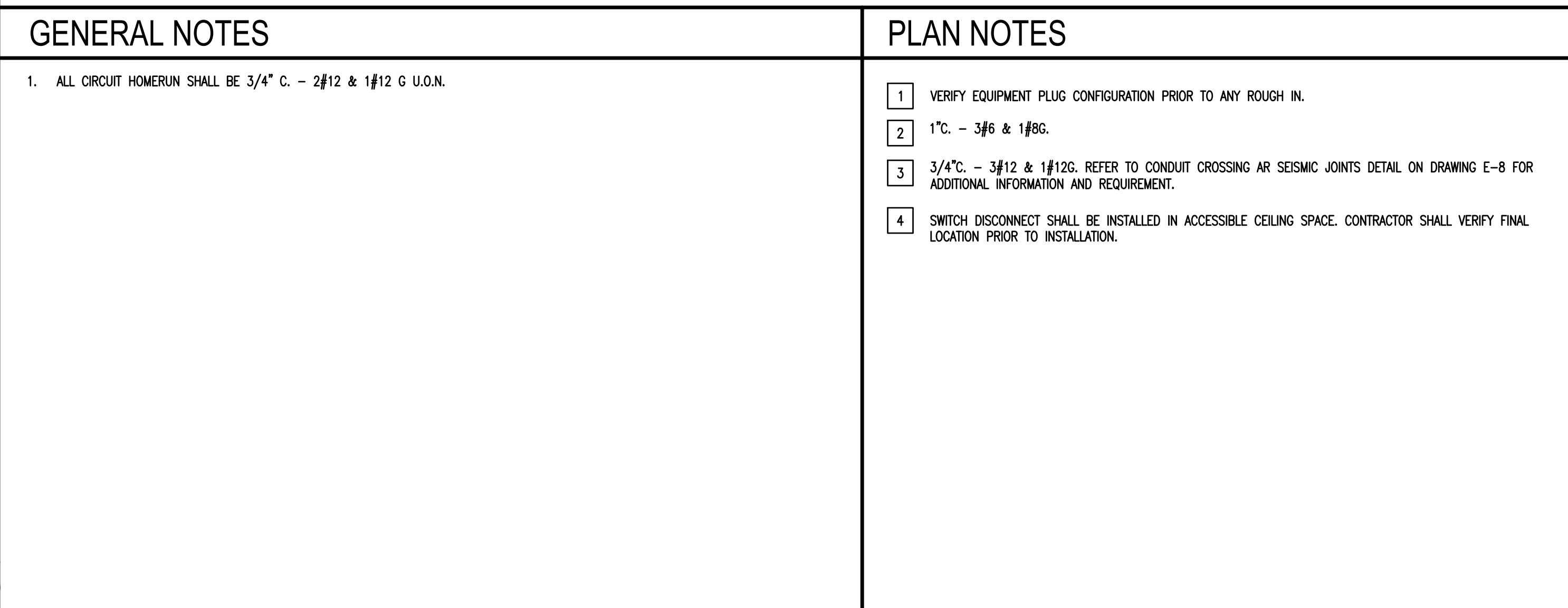
SENIOR CENTER REMODEL

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ELECTRICAL FIRST FLOOR DEMO PLAN

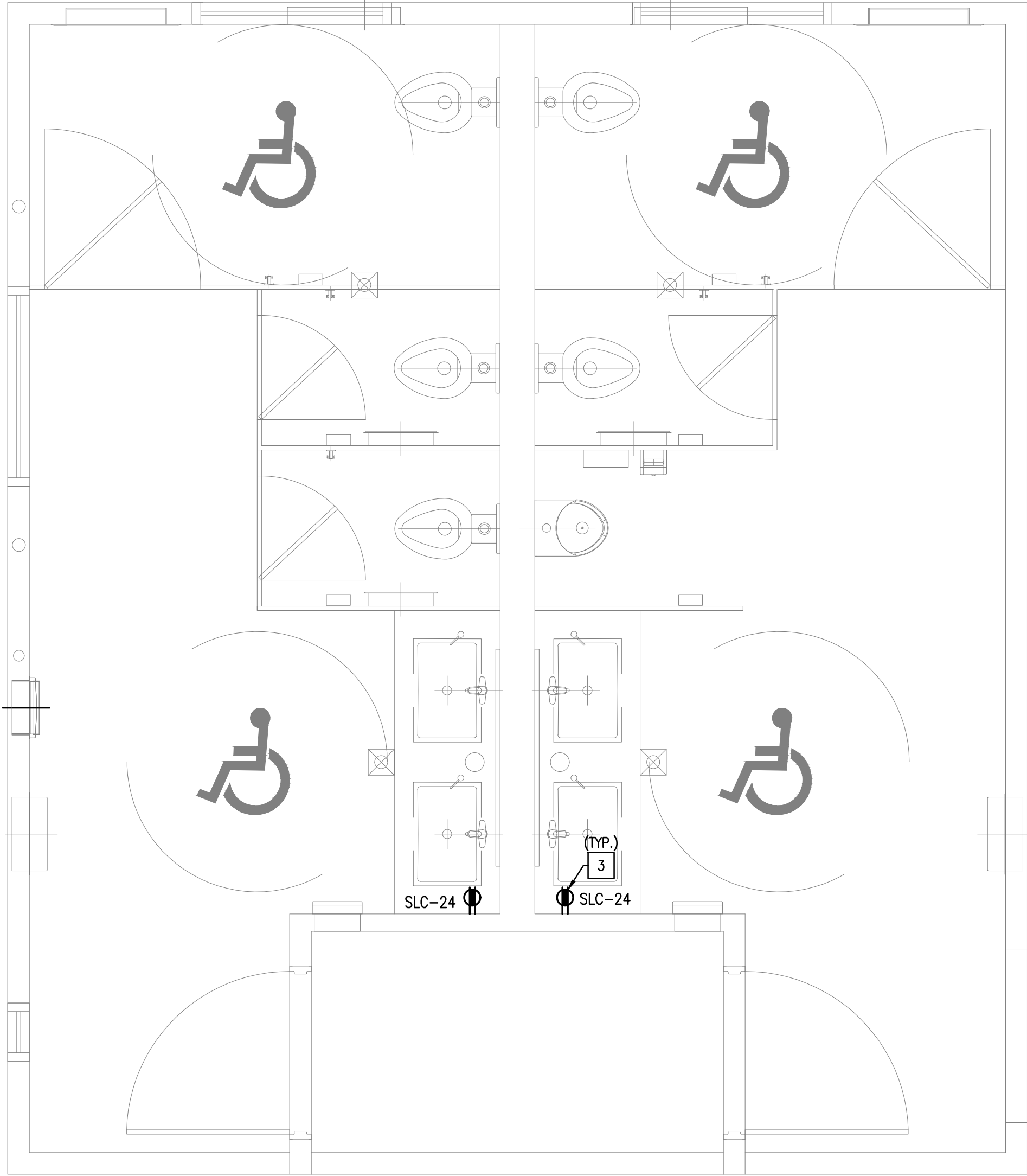
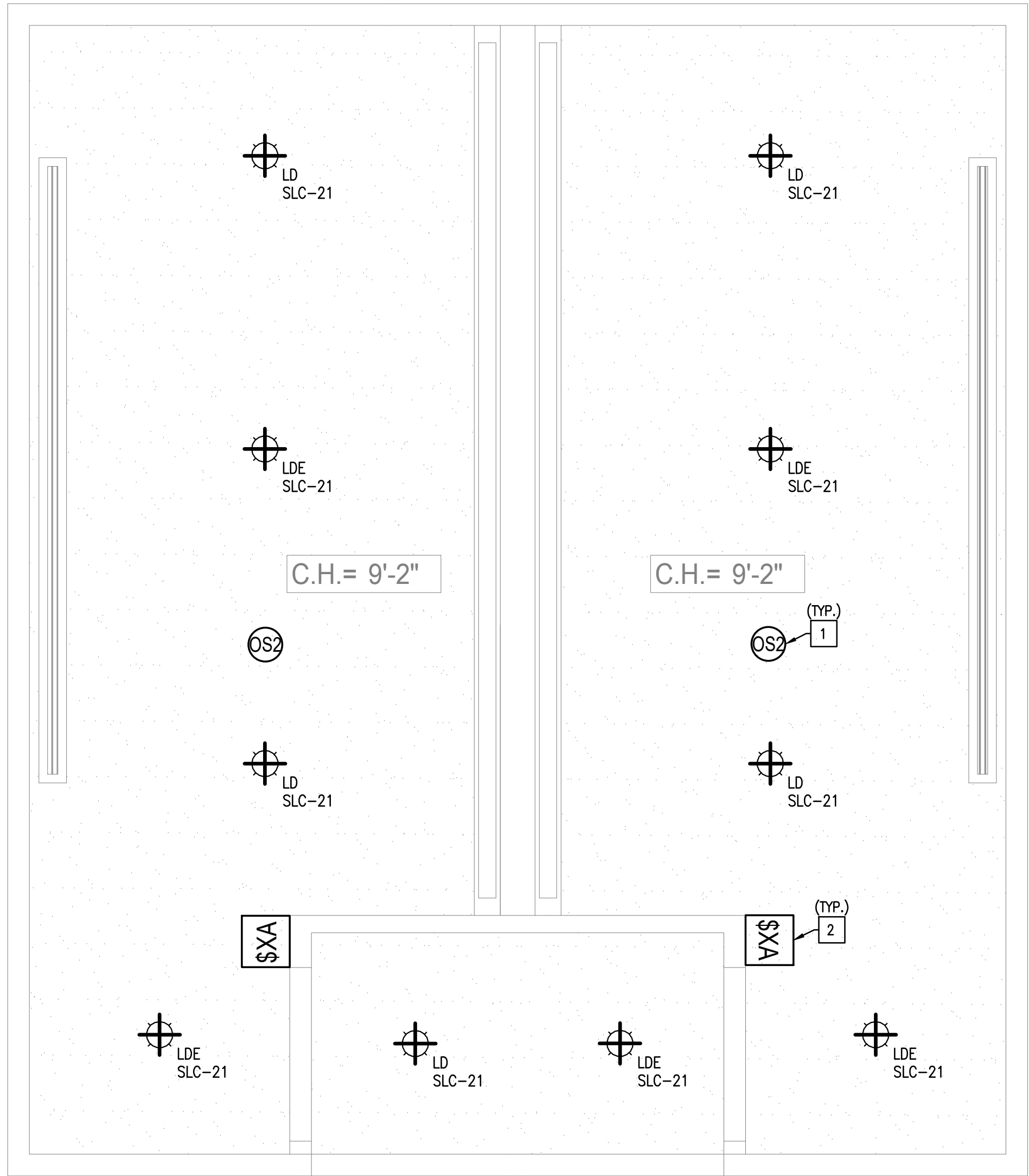
Sheet Number:

E3.1



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





ELECTRICAL LIGHTING PLAN

SCALE
1/2"=1'-0"

1

ELECTRICAL POWER PLAN

SCALE
1/2"=1'-0"

2

- NOTES:
- CONTRACTOR TO VERIFY EXACT FACEPLATE/DEVICE COLOR WITH OWNER/ARCHITECT PRIOR TO ORDERING/ROUGH IN.
 - UNLESS IDENTIFIED BY (E) EXISTING OR NON-BOLD, ALL ELECTRICAL EQUIPMENT IS NEW.

MULTI-WIRE BRANCH CIRCUITS:
PER NEC 210.4 (B), EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	VOLT	LAMP	INPUT WATTS	RECESSED	REMARKS
LD	LED DOWNLIGHT DIMMABLE	LITHONIA # LDN4 35/15 L04 AR LSS TRW MVOLT G210	120/277V	1500 LUMEN LED	17.5 W	RECESSED	NOTE 1
LDE	LED DOWNLIGHT DIMMABLE WITH EMERGENCY BATTERY PACK	LITHONIA # LDN4 35/15 L04 AR LSS TRW MVOLT G210 E10WCP	120/277V	1500 LUMEN LED	17.5 W	RECESSED	NOTE 1

LIGHTING FIXTURE SCHEDULE NOTES:

- PRIOR TO ORDERING LIGHTING FIXTURES, CONTRACTOR SHALL COORDINATE TRIM REQUIREMENTS WITH CEILING TYPE. ADJUST LIGHTING FIXTURE CATALOG NUMBER ACCORDINGLY.

POWER PLAN GENERAL NOTES

- HEIGHT OF ALL RECEPTACLES AT COUNTER SHELVES, ETC., SHALL BE VERIFIED WITH OWNER PRIOR TO ROUGH-IN. PROVIDE G.F.C.I. TYPE RECEPTACLE WITHIN 6 FEET OF ANY SINK.
- ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4". RUN CODE SIZE INSULATED EQUIPMENT GROUND CONDUCTOR.
- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
- ALL TEMPERATURE CONTROL AND INTERLOCK CONDUIT AND WIRING SHALL BE BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SEE MECHANICAL/PLUMBING DRAWINGS FOR ALL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE ROUTING OF POWER WIRING TO ROOF-MOUNTED EQUIPMENT WITHIN MECHANICAL PIPE CURB ASSEMBLY. NO SEPARATE ROOF PENETRATIONS WILL BE PERMITTED. ALL WIRING SHALL BE BELOW THE ROOF IN AN ACCESSIBLE CEILING SPACE LOCATION.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE NEMA 3R RATED.

LIGHTING PLAN GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT & DUCT WORK PRIOR TO ROUGH-IN.
- ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- ALL FLUORESCENT DIMMING ZONES/CHANNELS SHALL BE PROVIDED WITH 3 LINE VOLTAGE CONDUCTORS (NEUTRAL, DIMMED HOT, SWITCHED HOT) OR 2 LINE VOLTAGE CONDUCTORS/2 CONTROL CONDUCTORS AS REQUIRED BY THE CONTROL/BALLAST TYPE.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- ALL LOW VOLTAGE LIGHTING SYSTEMS SHALL COMPLY WITH 2013 CEC ART. 411 AND SHALL BE LISTED PER 411.3.
- ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
- ALL LOW VOLTAGE WIRING NOT RUN IN CONDUIT SHALL BE PLENUM RATED.
- CONTRACTOR TO VERIFY EXACT FACEPLATE/DEVICE COLOR WITH OWNER/ARCHITECT PRIOR TO ORDERING/ROUGH IN.
- LIGHTING INSTALLATION AND CONTROLS SHALL BE VERIFIED FOR T24 COMPLIANCE BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN AS REQUIRED.

PLAN NOTES

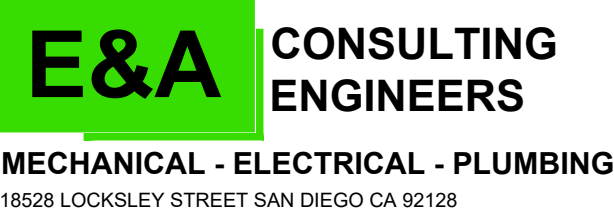
- NCM P0T 9 LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, SMALL MOTION/ STANDARD RANGE 360 DEGREE LENS. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO INSTALLATION.
- S02 WSXA XX WALL SWITCH SENSOR. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO INSTALLATION.
- ALL RECEPTACLES IN RESTROOM SHALL BE GFCI PER NEC 210.8.



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UNDER THE SUPERVISION OF:



CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

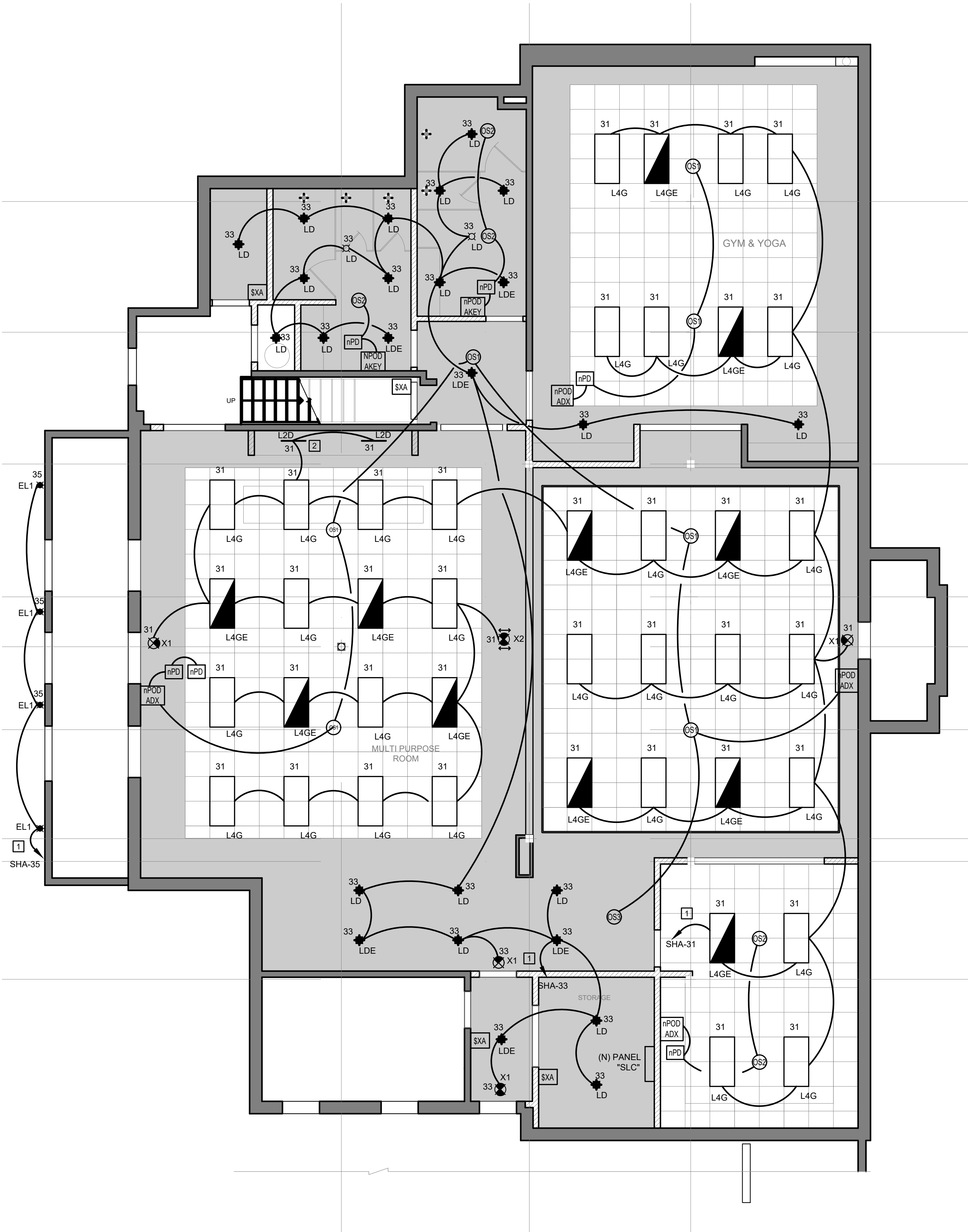
ELECTRICAL FIRST FLOOR LIGHTING & POWER PLANS

Sheet Number:

E4.1

P.N.: 2.1000.03

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	VOLT	LAMP	INPUT WATTS	RECESSED	REMARKS
LD	LED DOWNLIGHT DIMMABLE	LITHONIA # LDN4 35/15 L04 AR LSS TRW MVOLT G210	120/277V	1500 LUMEN LED	17.5 W	RECESSED	NOTE 1
LDE	LED DOWNLIGHT DIMMABLE WITH EMERGENCY BATTERY PACK	LITHONIA # LDN4 35/15 L04 AR LSS TRW MVOLT G210 E10WCP	120/277V	1500 LUMEN LED	17.5 W	RECESSED	NOTE 1
L4G	LED DECORATIVE 2'X4' DIMMABLE LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	LITHONIA # 2BL T4 48L AD5M MVOLT G210 LP835	120/277V	4800 LUMEN LED	38 W	RECESSED IN GRID CEILING	NOTE 1
L4GE	LED DECORATIVE 2'X4' DIMMABLE LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	LITHONIA # 2BL T4 48L AD5M MVOLT G210 LP835 E10WLCP	120/277V	4800 LUMEN LED	38 W	RECESSED IN GRID CEILING	NOTE 1
L2D	24V SLIM CORNER MOUNTED LED BAR	GLOWBACK LEDBARI24	120V	-	5 W	UNDER CABINET	NOTE 1
X1	SINGLE FACE LED EXIT SIGN WITH EMERGENCY BATTERY PACK	LITHONIA # LQM S W 3 G 120/277 ELN	120/277V	LED	5 W	SURFACE	NOTE 2
X2	DOUBLE FACE LED EXIT SIGN WITH EMERGENCY BATTERY PACK	LITHONIA # LQM S W 3 G 120/277 ELN	120/277V	LED	5 W	SURFACE	NOTE 2

LIGHTING FIXTURE SCHEDULE NOTES:

- PRIOR TO ORDERING LIGHTING FIXTURES, CONTRACTOR SHALL COORDINATE TRIM REQUIREMENTS WITH CEILING TYPE. ADJUST LIGHTING FIXTURE CATALOG NUMBER ACCORDINGLY.
- PROVIDE DIRECTIONAL ARROW(S) AS REQUIRED.

LIGHTING CONTROLS LEGEND AND DESCRIPTIONS

- OS1** NCM PDT 10
LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE
DUAL TECHNOLOGY, LARGE MOTION/ EXTENDED
RANGE 360 DEGREE LENS
- OS2** NCM PDT 9
LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE
DUAL TECHNOLOGY, SMALL MOTION/ STANDARD
RANGE 360 DEGREE LENS
- OS3** NCM 10
LOW VOLTAGE CEILING MOUNT SENSOR, LARGE
MOTION/ EXTENDED RANGE 360 DEGREE LENSE
- WS** SW1
NPODMA DX XXX
NLIGHT WIRED AESTHETIC WALLPOD,
RAISED/LOWER DIMMING WITHOUT WIRES
- SXA** S02
WSXA XX
WALL SWITCH SENSOR
- NPOD AKEY** SW5
NPODA KEY XX
WALLPOD, DIGITAL KEYSWITCH
- nPD** nPD
NPP16 D EFP
POWER/RELAY PACK, OCCUPANCY CONTROLLED
DIMMING, EXTERNAL FAULT PROTECTION
- nPOD ADX** SW1
NPODMA DX XXX
nLIGHT WIRED AESTHETIC WALLPOD,
RAISED/LOWER DIMMING WITHOUT WIRES

GENERAL NOTES

- CONTRACTOR TO VERY FINAL LOCATION PRIOR TO INSTALL LIGHTING FIXTURES.
- ALL CIRCUIT HOMERUN SHALL BE 3/4" - 2#12 & 1#12 G.U.O.N.
- REFER TO DRAWING E-2 FOR PANEL "SHA" LOCATION.
- PROVIDE ONE EXTRA CONDUCTOR FOR ALL LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK.

PLAN NOTES

- TO PANEL "SHA" LOCATED IN MAIN ELECTRICAL ROOM IN SOUTH BUILDING. REFER TO CONDUIT CROSSING AT SEISMIC JOINTS DETAIL ON DRAWING E-8 FOR ADDITIONAL INFORMATION AND REQUIREMENT.
- PROVIDE ONE 24V 30W DIMMABLE DRIVER FOR ALL UNDER CABINET LED LIGHTING FIXTURES.

ELECTRICAL RENOVATED LIGHTING PLAN

SCALE

3/16"=1'-0"

1

UNDER THE SUPERVISION OF:



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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18528 LOCKSLEY STREET SAN DIEGO CA 92128

CITY OF MONTEBELLO



Department of Public Works

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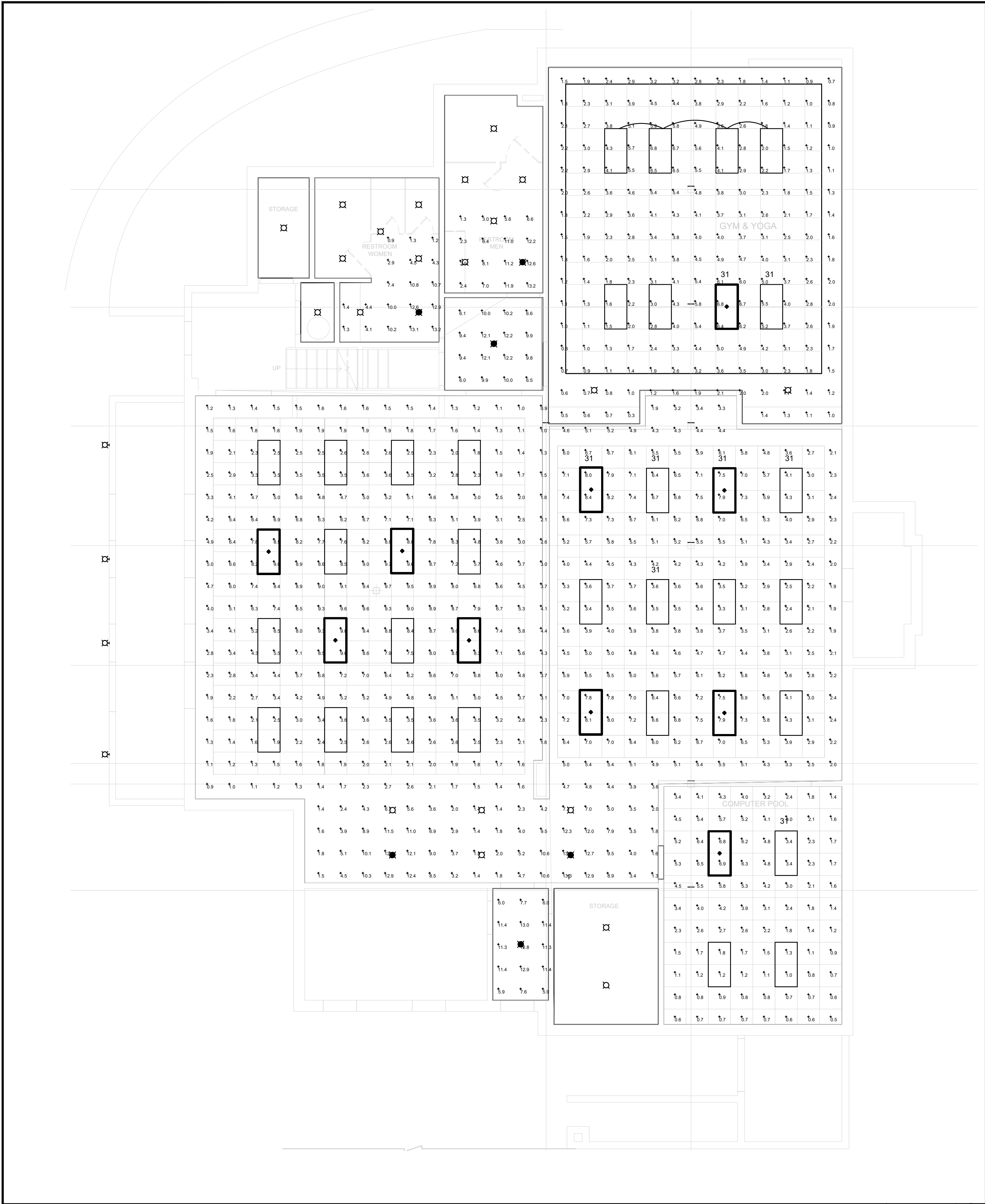
ELECTRICAL RENOVATED LIGHTING PLAN

Sheet Number:

E5.0

P.N.: 2.1000.03

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Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	IES Recommended
COMMON AREA_Floor	Fc	4.74	13.3	0.9	5.27	1FC AVG, 40:1 MAX:MIN
COMPUTER POOL_Workplane	Fc	2.66	6.9	0.5	5.32	1FC AVG, 40:1 MAX:MIN
GYM & YOGA_Floor	Fc	2.83	6.8	0.3	9.43	1FC AVG, 40:1 MAX:MIN
RESTROOM MEN_Floor	Fc	7.36	13.2	1.3	5.66	1FC AVG, 40:1 MAX:MIN
RESTROOM VESTIBULE_Floor	Fc	9.53	12.2	6.0	1.59	1FC AVG, 40:1 MAX:MIN
RESTROOM WOMEN_Floor	Fc	6.69	13.2	0.9	7.43	1FC AVG, 40:1 MAX:MIN
VESTIBULE_Floor	Fc	9.73	13.0	5.9	1.65	1FC AVG, 40:1 MAX:MIN

Luminaire Schedule						
Tag	Symbol	Qty	Label	Description	LLF	Lumens
LDE	⦿	6	LDN4 35_15 L04 AR LSS TRW MVOLT GZ10 E10WCP	LITHONIA 4IN DOWNLIGHT - 1500LM, 3500K, WITH 10W EM BATTERY PACK	0.500	1493
LAGE	⦿	11	2BLT4 48L AD5M MVOLT GZ10 LP835 E10WLCF	LITHONIA BLT 2X4 TROFFER - 4800LM, 3500K, WITH 10W EM BATTERY	0.250	5174

EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS

SCALE
3/16"=1'-0"

1

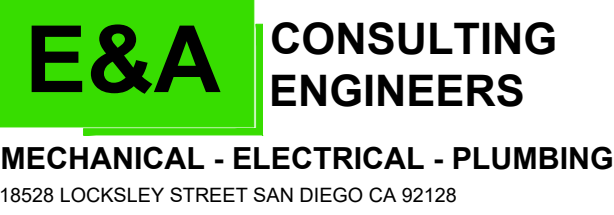


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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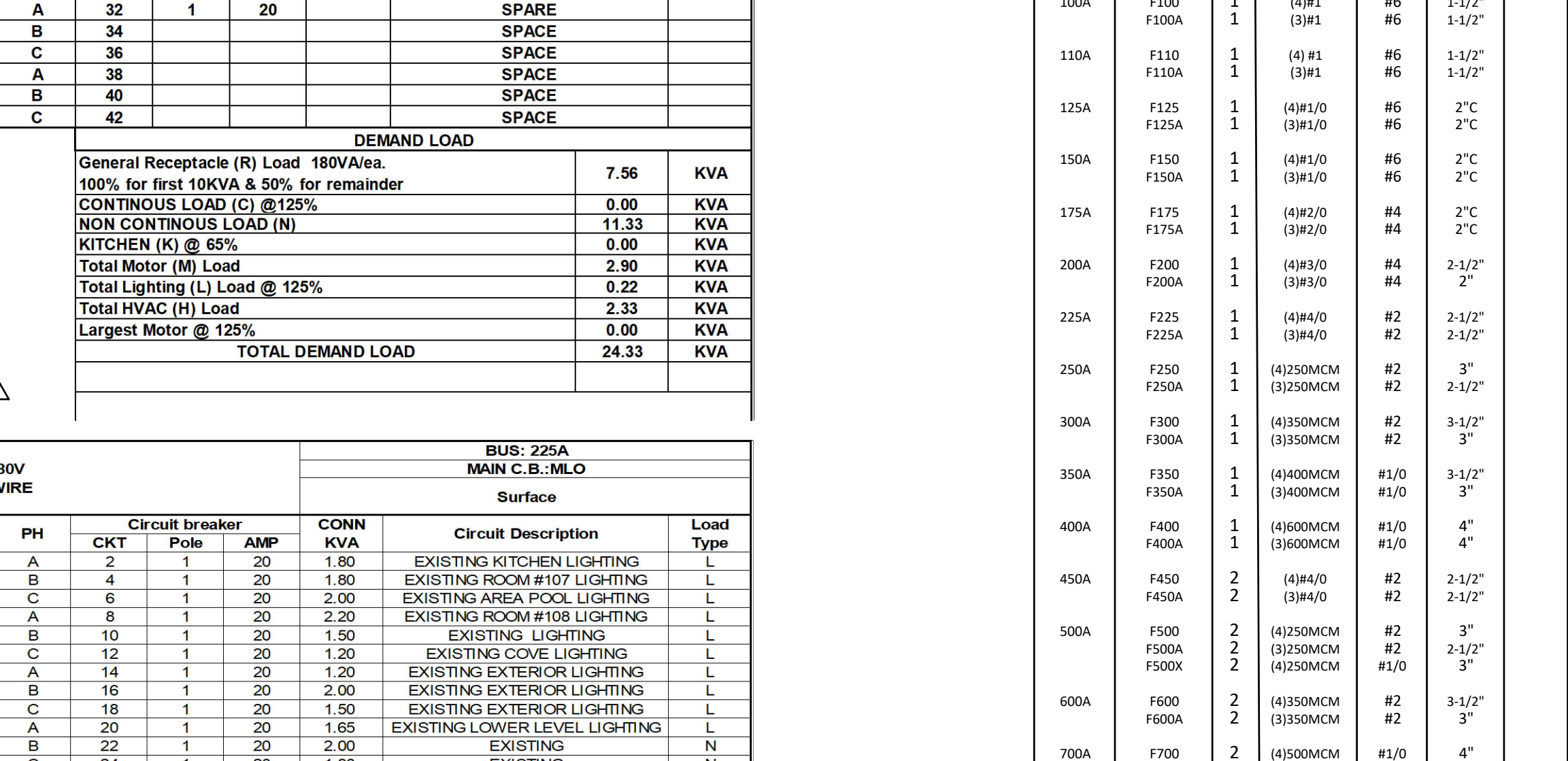
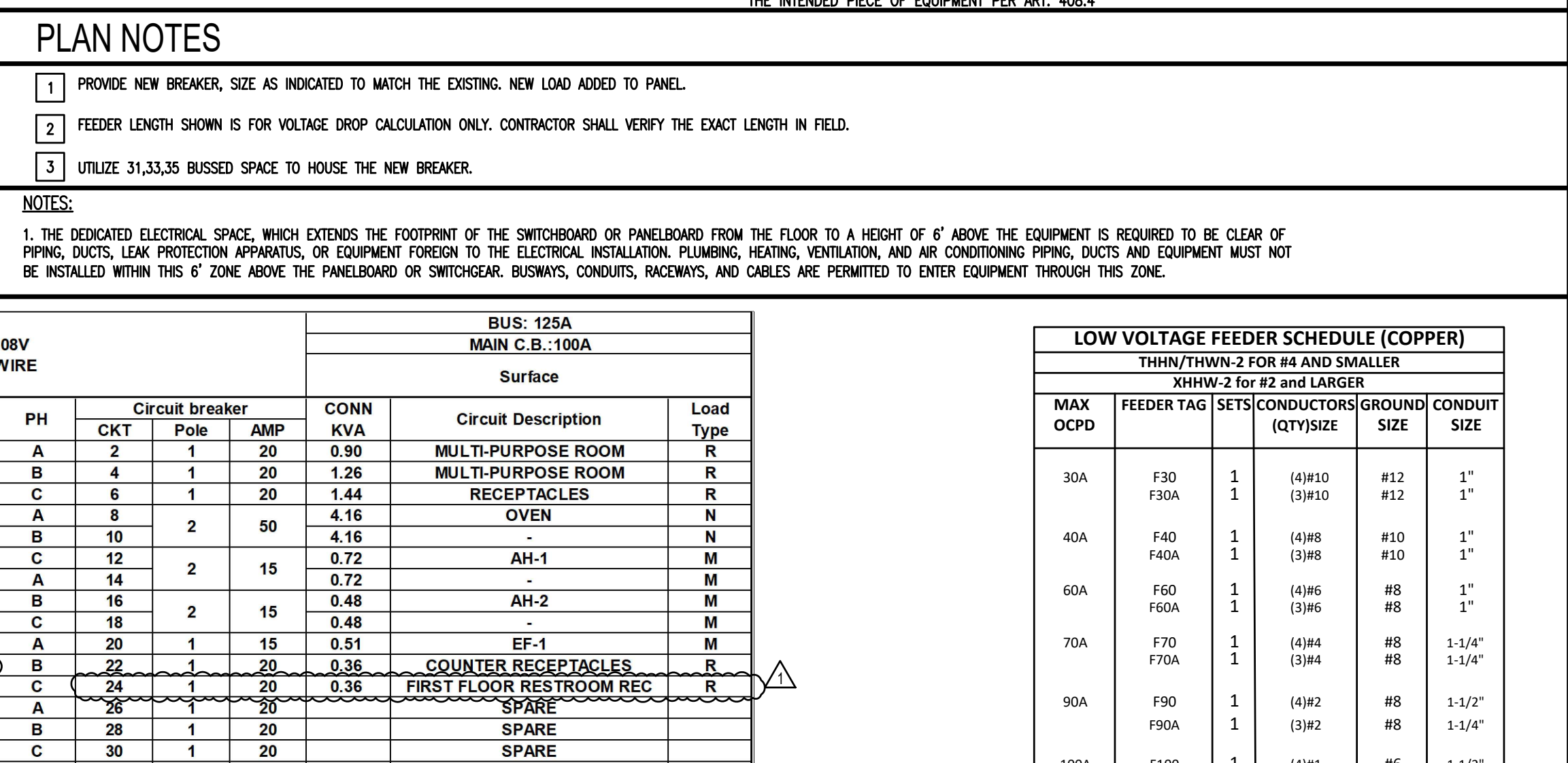
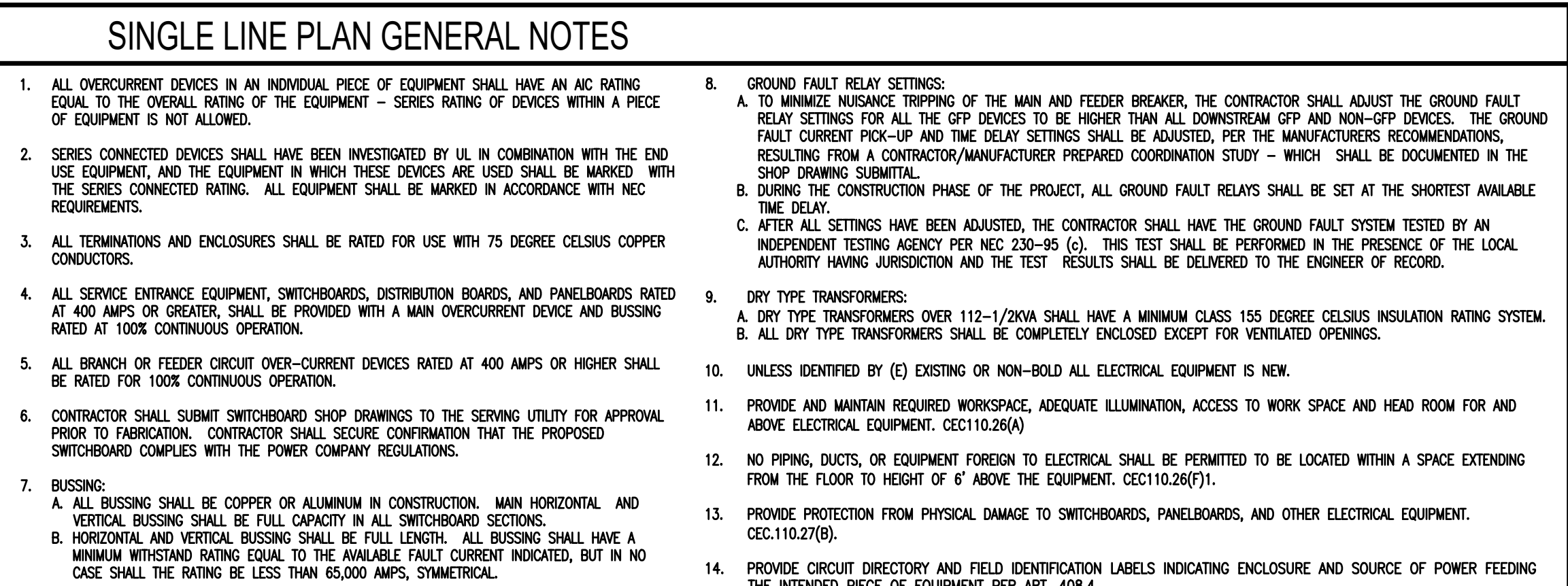
EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS

Sheet Number:

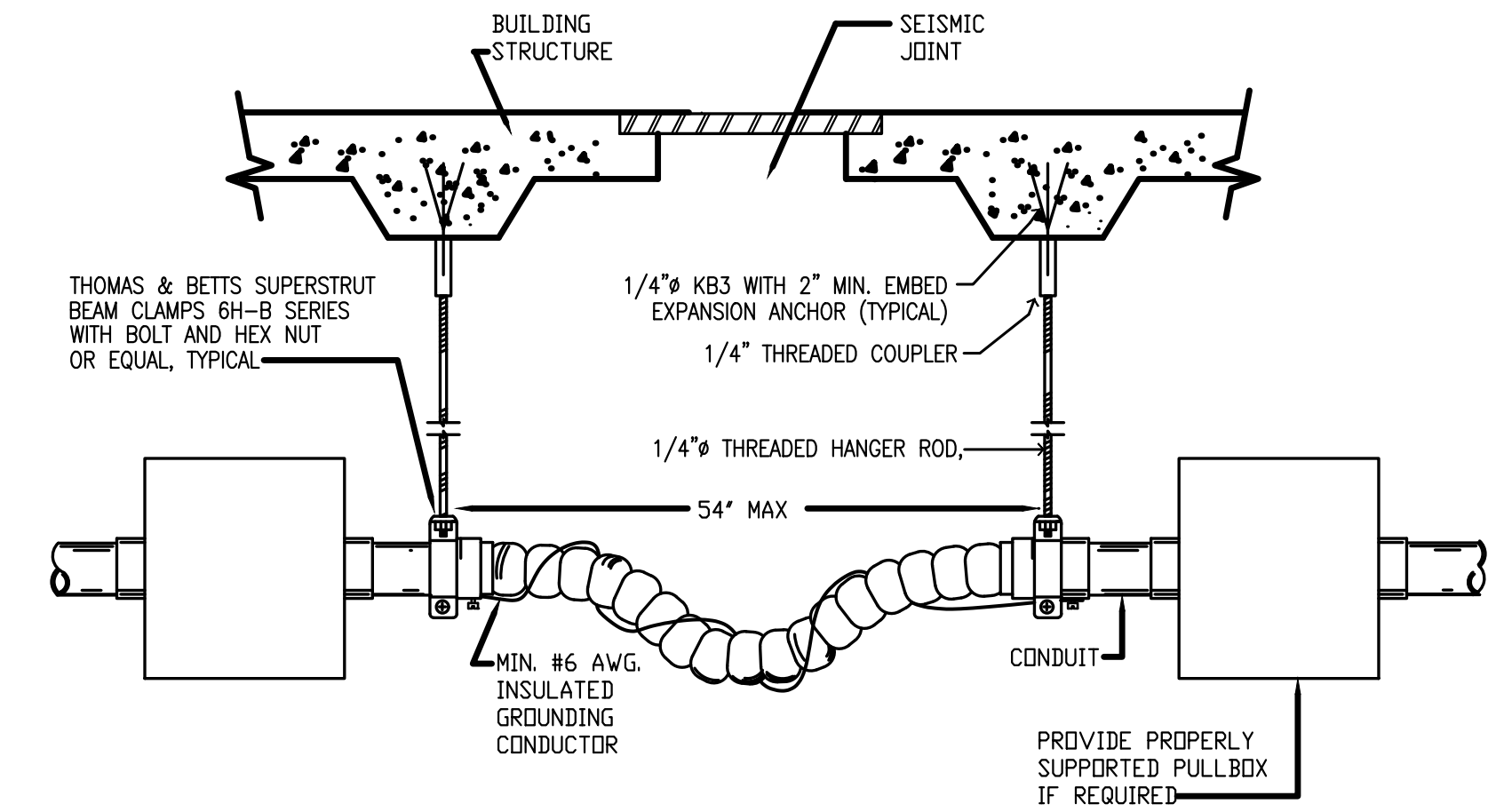
E6.0

P.N.: 2.1000.03

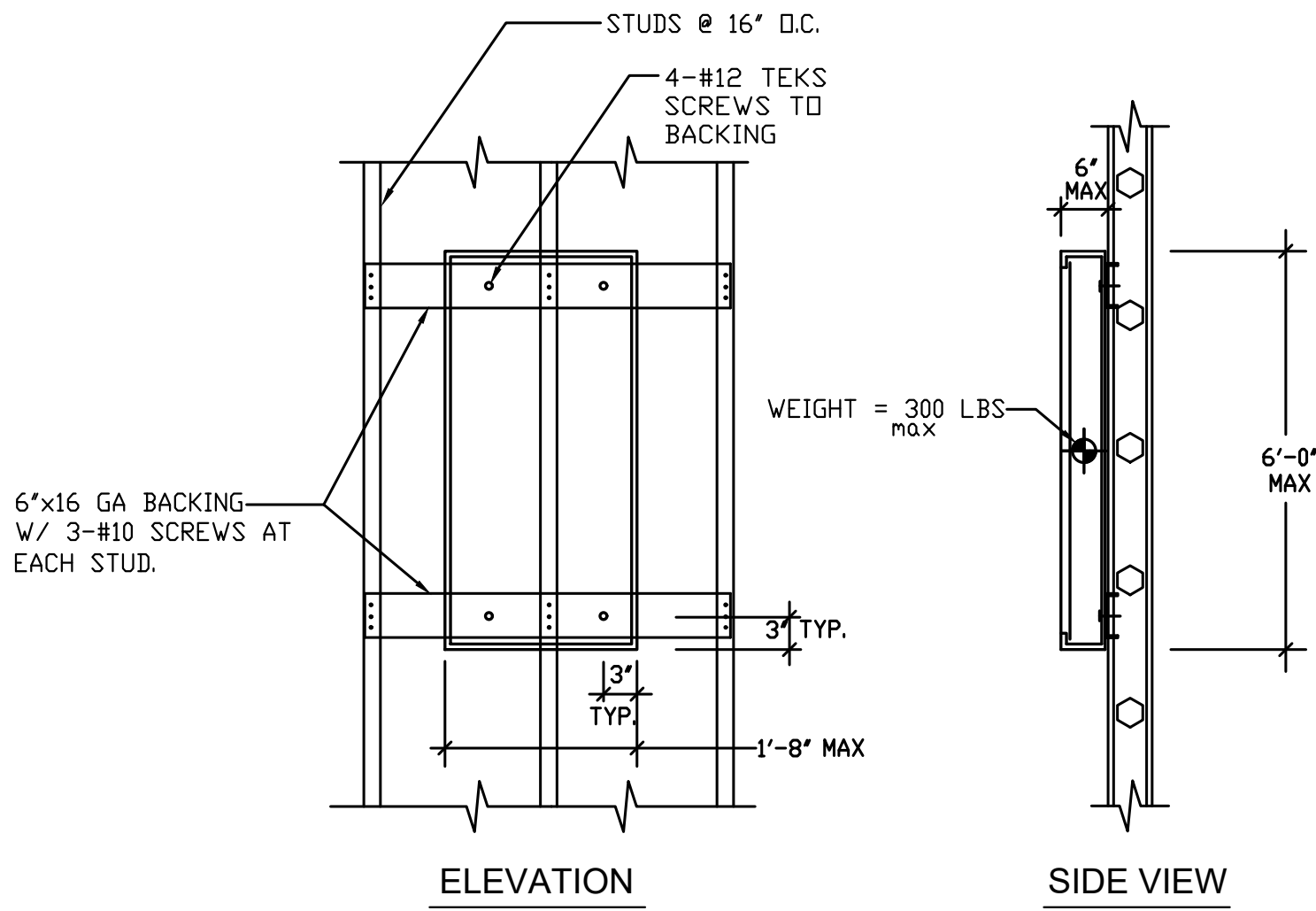
CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT



C	A	24	1	20	1.80	EXISTING	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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- NOTES:
- 1. THE FOLLOWING ARE THE MOVEMENT REQUIREMENTS FOR THE FOLLOWING LEVELS:
 - a. 1ST FLOOR (2ND FLOOR STRUCTURE): 6" MOVEMENT.
 - 2. TOTAL FLEXIBLE CONDUIT LENGTH IS WIDTH BETWEEN CONNECTORS PLUS REQUIRED MOVEMENT.



TYPICAL CONDUIT CROSSING AT SEISMIC JOINTS

SCALE:
NONE

1A

SURFACE MOUNT PANELBOARD DETAIL

SCALE:
NONE

2A

SCALE:
NONE

3A

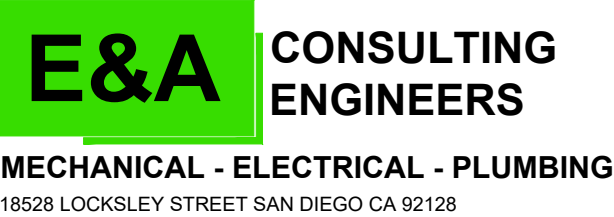


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/13/2026	REVISION 1

UNDER THE SUPERVISION OF:



CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

ELECTRICAL DETAILS

Sheet Number:

E8.0

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:City of Montebello Senior Center

Report Page:Page 2 of 8

Date Prepared:2026-04-14T13:36:46-04:00

CALIFORNIA ENERGY COMMISSION

NRC-14TH

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)(170.2)e	Allowed Lighting Power per 140.6(b) (170.2)(e) (Watts)					Adjusted Lighting Power per 140.6(a) (170.2)(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08	09	
	Complete Building 140.6(c)(1)	Area Category 140.6(c)(2) /170.2(e)(4)	Area Category Additional 170.2(e)(4)(v)	Tailored 140.6(c)(3) /170.2(e)(4)(+)	=	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)(170.2)(e)(1)(b)(1)	=	Total Adjusted (Watts) *Includes Adjustments
	(See Table I)	(See Table J)	(See Table J)	(See Table K)	=	2,545.1	=	2,192.5	=	2192.5
Conditioned										
Unconditioned										
Controls Compliance (See Table H for Details)									COMPLIES	
Rated Power Reduction Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: 396647-0436-0003

Report Generated: 2026-04-14T13:29:00

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		ACCREDITED	
CERTIFICATE OF COMPLIANCE		(Page 3 of 8)	
Project Name: City of Montebello Senior Center	Report Page: (Page 3 of 8)		
Date Prepared:	2026-04-14T13:38:46-04:00		

I. LIGHTING ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/H ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	Area Category
GYM AND YOGA	Exercise Center/Gymnasium	0.3	815	407.5	No	No
COMPUTER AREA	Classroom, Lecture, or Training/Vocational	0.6	342	205.2	No	No
MULTI PURPOSE AREA	Lounge	0.55	2,379	1,308.45	No	No
RESTROOM	Restroom	0.65	818	531.7	No	No
STORAGE	Storage - MF common areas	0.45	205	92.25	No	No
TOTALS:			4,559	2,545.1	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Generated Date/Time:

Documentation Software: Energy Code Ace

Compliance ID: 396647-0426-0003

Report Generated: 2026-04-14 10:36:49

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCCL-0.000	
CERTIFICATE OF COMPLIANCE			
Project Name: City of Montebello Senior Center	Report Page: (Page 7 of 8)		
Date Prepared:	2026-04-14T13:36:46-04:00		
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
<i>Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online</i>			
Form/Title			
NRCI-LTI-E - Must be submitted for all buildings			
V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
<i>Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html</i>			
Form/Title	Systems/Spaces To Be Field Verified		
NRCIA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	GYM AND YOGA; COMPUTER AREA; MULTI PURPOSE AREA; RESTROOM; STORAGE		
Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Compliance ID: 396647-0426-000 Report Version: 2022.0.000 Report Generated: 2026-04-14 10:36:49 Schema Version: rev 20220101			

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION NREC-ITL# _____	
CERTIFICATE OF COMPLIANCE			
Project Name: City of Montebello Senior Center		Report Page: (Page 8 of 8)	
Project Address: 115 S TAYLOR AVE, MONTEBELLO, CA 90604		Date Prepared: 2026-04-14T13:36:04-06:00	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Aria Ansari	Documentation Author Signature: 
Company: ARIA ENGINEERING GROUP Address: 18528 LOOKSLEY STREET City/State/Zip: SAN DIEGO CA 92128	Signature Date: 04-13-2026 C1A1 HERS Certification Identification (if applicable): Phone: 619-494-6495

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: Aria Ansari	Responsible Designer Signature: 
Company: ARIA ENGINEERING GROUP Address: 18528 LOOKSLEY STREET City/State/Zip: SAN DIEGO CA 92128	Date Signed: 04-13-2026 License: E-23882 Phone: 619-494-6495

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev.20220101	Documentation Software: Energy Code Ace Compliance ID: 396647-0426-003 Report Generated: 2026-04-14 10:36:49
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REVISIONS DESCRIPTION REVISION 1	UNDER THE SUPERVISION OF:  E&A MECHANICAL - E 18528 LOCKSLEY STREET
--	--

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)(2) for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)(6), 180.1(a) and 180.2(b)(4)(b) for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: City of Montebello Senior Center

Report Page: (Page 1 of 7)

Project Address: 115 S TAYLOR AVE, MONTEBELLO, CA 90640

Date Prepared: 2025-02-26T18:16:44-05:00

A. GENERAL INFORMATION

01 Project Location (city)

Montebello

04 Total Illuminated Hardscape Area (ft²)

200

02 Climate Zone

9

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ L2-0: Very Low - Undeveloped Parkland

☒ L2-2: Moderate - Urban Clusters

☐ L2-4: High - Must be reviewed by CA Energy Commission for Approval

☐ L2-1: Low - Rural Areas

☐ L2-3: Moderately High - Urban Areas

05 Occupancy Types within Project

■ All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4)(b) for alterations.

My Project Consists of:

01

02

☒ New Lighting System

Must Comply with Allowances from 140.7 / 170.2(e)(6)

☐ Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

☒ Yes

☐ No

03

04

05

% of Existing Luminaires Being Altered¹

Sum Total of Luminaires Being Added or Altered

Calculation Method

☐ < 10%

☐ >= 10% and < 50%

☐ >= 50%

Please proceed to Table F: Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 276222-0225-0005

Report Generated: 2025-02-26 15:16:47

Schema Version: rev 20220101

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: City of Montebello Senior Center

Report Page: (Page 1 of 7)

Project Address: 115 S TAYLOR AVE, MONTEBELLO, CA 90640

Date Prepared: 2025-02-26T18:16:44-05:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01

02

03

04

05

Area Description

Shut-Off 130.2(c)(1) / 160.5(c)

Auto-Schedule 130.2(c)(2) / 160.5(c)

Motion Sensor 130.2(c)(3) / 160.5(c)

Field Inspector

Building Walkway- "EL1"

Photocontrol

Provided

NA: Each Luminaire <= 40 Watts

☐

☐

¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 276222-0225-0005

Report Generated: 2025-02-26 15:16:47

Schema Version: rev 20220101

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: City of Montebello Senior Center

Report Page: (Page 7 of 7)

Project Address: 115 S TAYLOR AVE, MONTEBELLO, CA 90640

Date Prepared: 2025-02-26T18:16:44-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Aria Ansari

Documentation Author Signature: A. Ansari

Signature Date: 02-24-2025

Company: Aria Engineering Group

Address: 18528 LOCKSLEY STREET

City/State/Zip: SAN DIEGO CA 92128

CEA/HERS Certification Identification (if applicable): 619-684-9485

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: ARIA ANSARI

Responsible Designer Signature: A. Ansari

Company: ARIA ENGINEERING GROUP

Address: 18528 LOCKSLEY STREET

City/State/Zip: SAN DIEGO CA 92128

Date Signed: 02-24-2025

License: E-23593

Phone: 619-684-9485

Generated Date/Time:

Documentation Software: Energy Code Ace

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Schema Version: rev 20220101

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: City of Montebello Senior Center

Report Page: (Page 2 of 7)

Date Prepared: 2025-02-26T18:16:44-05:00

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4)(b)

01

02

03

04

05

06

07

08

09

General Hardscape Allowance 140.7(d)(1) / 170.2(e)(6) (See Table I)

Per Application 140.7(d)(2) / 170.2(e)(6) (See Table J)

Sales Frontage 140.7(d)(2) / 170.2(e)(6) (See Table K)

Ornamental 140.7(d)(2) / 170.2(e)(6) (See Table L)

Per Specific Area 140.7(d)(2) / 170.2(e)(6) (See Table M)

OR

Existing Power Allowance 141.0(b)(2) / 180.2(b)(4)(b) (See Table N)

=

Total Allowed (Watts)

≥

Total Actual (Watts)

07 must be >= 08

201.93

+

+

+

+

OR

=

201.93

≥

96

COMPLIES

Shielding Compliance (See Table G for Details)

Controls Compliance (See Table H for Details)

N/A

COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 276222-0225-0005

Report Generated: 2025-02-26 15:16:47

Schema Version: rev 20220101

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: City of Montebello Senior Center

Report Page: (Page 3 of 7)

Date Prepared: 2025-02-26T18:16:44-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/ Table 170.2-A while "Use it or lose it" allowances are per Table 140.7-B/ Table 170.2-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

01

02

03

04

05

06

07

08

09

General Hardscape Allowance Table I (below)

☐ Per Application Table J

☐ Sales Frontage Table K

☐ Ornamental Table L

☐ Per Specific Area Table M

Area Description

Illuminated Area (ft²)

Area Wattage Allowance (AWA) Allowed Density (W/ft²)

Area Allowance (Watts)

Perimeter Length (ft)

Allowed Density (W/ft)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

Building Walkway

15

0.019

0.28

11

0.15

1.65

1.93

Initial Wattage Allowance for Entire Site (Watts):

200

Instances of Initial Wattage Allowance (L2 0 only)¹

Total General Hardscape Allowance (Watts):

201.93

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Generated Date/Time:

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Report Page: (Page 3 of 7)

Date Prepared: 2025-02-26T18:16:44-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)(6) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per Luminaire^{1,2}

How is Wattage determined

Total Number Luminaires²

Luminaire Status³

Excluded per 140.7(a) / 170.2(e)(6A)

Design Watts

Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)^{1,4}

Field Inspector

EL1

LED WALL MOUNTED WITH INTEGRAL PHOTO-SENSOR AND EMERGENCY BATTERY PACK

☐ Linear

24

Mfr. Spec

4

New

☐

96

NA: < 6200 lumens

☐

☐

Total Design Watts:

96

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.

¹ EX: Luminaire is lighting a statue. EXCEPTION 2 to 140.2(b)

² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

³ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Form/Title

NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

Building Walkway: "EL1"

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/13/2026	REVISION 1

UNDER THE SUPERVISION OF:

CITY OF MONTEBELLO

Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

EXTERIOR TITLE 24 CALCULATIONS

Sheet Number:

E10.0

P.N.: 2.1000.03

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT

SCOPE OF WORK

- RENOVATION AN EXISTING SENIOR CENTER.
1. REPLACE AND RELOCATE AN EXISTING GAS TANK WATER HEATER.
 2. REMOVE ELECTRIC WATER HEATER FROM THE ELECTRICAL ROOM.
 3. REPLACE AND RELOCATE LAVATORY, WATER CLOSET, URINAL, FLOOR DRAIN IN RESTROOMS.
 4. REMOVE AND DEMOLISH 3 COMPARTMENT SINK, SINGLE SINK, GAS RANGE , FLOOR DRAIN AND FLOOR SINKS IN THE KITCHEN AREA.
 5. MODIFY AND ADJUST COLD WATER, SANITARY SEWER AND VENT FOR NEW PLUMBING.
 6. REPLACE NATURAL GAS AND HOT WATER PIPES ENTIRELY.

GENERAL PLUMBING NOTES

1. EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.
2. ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS. PLUMBING CONTRACTOR SHOULD COORDINATE HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PAD, AND CHANGES OF ELEVATIONS.
3. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION RESPONSIBLE TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. VERIFY LOCATION, ELEVATIONS, AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS, LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. NO EXCEPTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SUBMIT FOR APPROVAL UPON COMPLETION OF INSTALLATION.
8. CONTRACTOR SHALL FINISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETING THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AND MEET THE APPROVAL OF STATE & LOCAL JURISDICTION.
9. WATER HEATER SHALL BE CERTIFIED BY THE MANUFACTURER AND MUST AND MUST COMPLY WITH THE EFFICIENCY STANDARDS OF THE CALIFORNIA ENERGY COMMISSION, 2023 EDITION & GREEN BUILDING STANDARD LAGBC.
10. ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG "ARMAFLEX" ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG "ARMAFLEX" INSULATION PER SECTION 609.11 OR THE 2022 PLUMBING CODE AND TABLE 120.3.3-A, SECTION 120.3 OF THE CALIFORNIA ENERGY CODE.
11. CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE PROJECT SITE. CONTRACTOR SHALL PROVIDE INSTALL A PRESSURE REGULATOR WHERE THE SUPPLY PRESSURE EXCEEDS 80 PSI.
12. ALL PIPING SHALL BE SUPPORTED AT INTERVAL NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3
13. ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, SUCH AS HOSE BIBS, AND MOP SINKS ARE TO BE PROVIDED WITH A BACKFLOW /ANTI-SIPHON DEVICE.
14. ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE, ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE 2022. NO EXCEPTION.
15. ALL FAUCETS SHALL COMPLY WITH CALIFORNIA PROPOSITION 65 AND SHALL ALL FAUCETS SHALL COMPLY WITH CALIFORNIA PROPOSITION 65 AND SHALL BE CERTIFIED TO NSF STANDARD 61 SECTION 9 FOR DRINKING WATER COMPONENTS.
16. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE 2023 LOS ANGELES PLUMBING CODE.
17. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
18. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN(10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY DOOR, OPENING, FRESH AIR INTAKE OR VENT SHAFT.
19. SLOPE ALL CONDENSATE DRAIN LINES AT 1% AND SLOPE ALL SEWER PIPING SLOPE ALL CONDENSATE DRAIN LINES AT 1% AND SLOPE ALL SEWER PIPING MINIMUM OF 2%.
20. WASTE & VENT PIPING MATERIAL: SHALL BE ABS/PVC OR AB&1 SERVICE WASTE & VENT PIPING MATERIAL: SHALL BE ABS/PVC OR AB&1 SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH NO-HUB CLAMPS. MUST CONFORM TO CISPI STANDARD 301.04a & 310.04 AND CLEARLY MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE TRADEMARK, MANUFACTURER'S NAME AND COUNTRY OF ORIGIN. ABS/PVC CAN BE USED IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION
21. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND. ALL ROUND PIPE IN ACCORDANCE WITH NSI/ANWA STANDARD C105/A21.5-82.
22. WATER PIPE SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER WATER PIPE SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS, SOLDER ALL JOINTS WITH LEAD-FREE SOLDER.
23. CONDENSATE DRAIN PIPE SHALL BE TYPE "DWV" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. 50-50 SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.
24. NEW OR REPAIRED PORTABLE WATER SYSTEMS SHALL BE DISINFECTED NEW OR REPAIRED PORTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHODS IN LAPC 2023 609.9. NO EXCEPTION.
25. CONTRACTOR TO PROVIDE THERMOSTATIC MIXING VALVES FOR PUBLIC-USE LAVATORIES TO LIMIT TEMPERATURE TO A MAXIMUM OF 120 DEGREES FAHRENHEIT (2023 LAPC 407.3).
26. THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.
27. EXISTING PIPING LOCATIONS, SIZES AND ELEVATIONS ARE BASED ON LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.
28. ALL NEW PIPING SYSTEMS SHALL BE TESTED PER CPC REQUIREMENTS PRIOR TO CONCEALMENT.
29. ENGINEER IS NOT RESPONSIBLE FOR EXISTING SYSTEM DEFICIENCIES OR FIELD CONDITIONS NOT VISIBLE OR DOCUMENTED AT TIME OF DESIGN. ANY REQUIRED MODIFICATIONS DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO ENGINEER'S ATTENTION FOR REVIEW..
30. IF EXISTING PIPING IS FOUND TO BE NON-COMPLIANT, DAMAGES OR INADEQUATE, CONTRACTOR SHALL PROVIDE PROPOSED SOLUTION FOR ENGINEER REVIEW PRIOR TO PROCEEDING.

TYPICAL WATER CALCULATIONS

PRESSURE @ STREET HIGH/LOW : 68-70 PSI*	
PRESSURE @ REGULATOR : NA	
METER SIZE: (E)2" WATER METER - SENSUS	COLD WATER
FLOW RATE (GPM) = 59 GPM	
PIPE MATERIAL:TYPE ' L ' COPPER	
COLD WATER MAX. VEL =8FPS; HPT WATER MAX. VEL = 5 FPS	
1- LOSS THRU 2" METER LOSS @90GPM , PSI (EXISTING)	2.5
2- STATIC HEAD LOSS 20FT X 0.434	8.7
3- MINIMUM RESIDUAL PRESSURE @ FIXTURES, PSI	25
4- LOSS THRU 3" BACKFLOW PREVENTER @90GPM, PSI (EXISTING ZURN 375)	13
5- LOSS THRU PRESSURE REGULATOR = NA	0
6- TOTAL LOSSES, PSI (1 THRU 5)	49.2
7- WATER PRESSURE (MIN), PSI	68
8- PRESSURE AVAILABLE FOR FRICTION, PSI (7-6)	18.8
9- TOTAL DEVELOPED LENGTH FT	200
10- DEVELOPED LENGTH 130% OF ITEM 9	260.0
11- AVERAGE PRESSURE DROP , PSI/100FT	7.2

NOTE:
*IF STREET PRESSURE EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE IS TO BE INSTALLED TO REDUCE THE PRESSURE TO 80PSI.

WATER PIPE SIZING
FIXTURE UNITS VERSUS FRICTION LOSS(PSI/100 FT)
TYPE L COPPER

FRICTION LOSS PSI/100FT	PIPE SIZE	NOMINAL PIPE DIAMETER (INCHES)							
		1/2 "	3/4 "	1 "	1 1/4 "	1 1/2 "	2"	2 1/2"	
7.2	COLD WATER - FLUSH VALVE	0	0	0	10	33	132	329	
	COLD WATER - FLUSH TANK	3	8	21	46	99	254	455	
	HOT WATER (5FT/S MAX)	3	8	16	28	46	119	245	

MINIMUM PLUMBING FACILITIES 2022 CPC 422.1

A-3 ASSEMBLY OCCUPANCY		
PLUMBING FIXTURE	MEN	FEMALE
WATER CLOSET FIXTURES	1	2
URINALS	1	-
SINGLE SHOWERHEAD	NA	NA
LAVATORY	1	1
DRINKING FOUNTAIN	1	
OTHER	1 SERVICE SINK OR MOP SINK LAUNDRY TRAY	

NATURAL GAS (CPC TABLE1215.2)		SCHEDULE 40 METALLIC PIPE							
		INLET PRESSURE: LESS THAN 2PSI, PRESSURE DROP: 0.5 IN.W.C.							
LENGTH(FT)/NOMINAL	1/2 "	3/4 "	1 "	1 1/4 "	1 1/2 "	2 "			
10	172	360	678	1390	2090	4020			
20	118	247	466	957	1430	2670			
30	95	199	374	768	1150	2220			
40	81	170	320	657	985	1900			
50	72	151	284	583	873	1680			
60	65	137	257	528	791	1520			
70	60	126	237	486	728	1400			
80	56	117	220	452	677	1300			
90	52	110	207	424	635	1220			

FIXTURE SCHEDULE

ITEM	DESCRIPTION	MAKE/MODEL	TRAP	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET	MADERA FLOWISE #5901.10 OR #5901.100 ADA COMPLIANT	3"	3"	2"	3/4"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE FLUSH VALVE MODEL: 3461.528
UR-1	URINAL	WASHBROOK FLOWISE FLUSH VALVE MODEL: 6590.525	2"	2"	1-1/2"	3/4"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
LV-1	LAVATORY	AMERICAN STANDARD 9482.000	1-1/2"	2"	1-1/2"	1/2"	1/2"	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
WH-1	GAS TANK WATER HEATER	AO SMITH BTH-120 MXI	-	FD-1	-	1-1/2"	1-1/2"	HEAT RECOVERY 197 USGPH @70F RISE, ESTIMATE STORAGE RECOVERY 18MIN.
S-1	KITCHEN SINK	CHICAGO FAUCET MODEL 420-T25E2805ABCP	2"	2"	-	1/2"	1/2"	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
MS-1	MOP SINK	AMERICAN STANDARD MODEL: 7692.008	1-1/2"	2"	1-1/2"	3/4"	3/4"	PROVIDED WITH A BACKFLOW/ANTI-SIPHON DEVICE. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
DF-1	DRINKING WATER FOUNTAIN	SEE ARCHITECT PLAN	1-1/2"	1-1/2"	-	1/2"	1/2"	PROVIDED WITH A BACKFLOW/ANTI-SIPHON DEVICE. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
FD-1	FLOOR DRAIN	ZURN 6" TYPE S SQUARE STRAINER POLISHED NICKEL MODEL: 2400S	-	2"	1-1/2"	-	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
WHA-1	WATER HAMMER ARRESTER	PPP #SWA-1000	-	-	-	1/2"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
TP-1	TRAP PRIMER	WATTS LFTP300	-	-	-	1/2"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE

*PLUMBING FIXTURES MUST COMPLY WITH GREEN BUILDING STANDARDS

FIXTURE UNIT CALCULATION CPC 2022 TABLE A103.1

FIXTURE TYPE	FILTERED WATER	INDIRECT WASTE	QTY	WATER FIXTURE UNIT & DRAIN FIXTURE UNIT				DRAINAGE	
				FIXTURE DEMAND	HOT DEMAND	TOTAL WATER DEMAND (WSFU)	TOTAL HOT WATER DEMAND	DFU	TOTAL
WATER CLOSET / WC-1			10	5	0	50	0	4	40
URINAL / UR-1			2	4	0	8	0	2	4
LAVATORY / LV-1			8	1	0.75	8	6	1	8
S-1			1	2	1.5	2	1.5	2	2
DRINKING WATER FOUNTAIN/ DF-1			1	1	0	1	0	1	1
MOP SINK / MS-1			1	3	1.5	3	1.5	3	3
WATER HEATER / WH-1		YES	1	0	0	0	0	0	0
FLOOR DRAIN (EMERGENCY)			7	0	0	0	0	0	0
TOTAL FIXTURE UNITS						72	9		58
EQUIVALENT WATER DEMAND IN GPM						59			
REQUIRED MINIMUM PIPE SIZE						2"	1-1/2"		4"

GREEN BUILDING NOTES

PLUMBING FIXTURE	DESCRIPTION
WATER CLOSET	THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS (4.8 L) PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILETS IN COMPLIANCE WITH CHAPTER 5, DIVISION 5.3. OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN).
NONRESIDENTIAL LAVATORY FAUCETS	THE MAXIMUM FLOW RATE FOR PUBLIC LAVATORY FAUCETS SHALL NOT EXCEED 0.5 GPM AT 60 PSI (1.9 L/M AT 414 KPA).
KITCHEN FAUCETS	KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.
PRE-RINSE SPRAY VALVE	PRODUCT CLASS 1 (<= 5.0 OZF) 1.00 GPM PRODUCT CLASS 2 (> 5.0 OZF AND <= 8.0 OZF) 1.20GPM PRODUCT CLASS 3 (> 8.0 OZF) 1.28 GPM

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

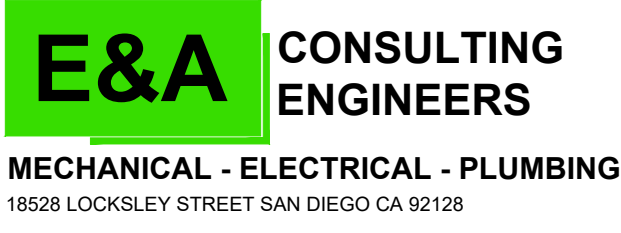


ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS

NO.	DATE	DESCRIPTION
1	04/13/2026	REVISION 1

UNDER THE SUPERVISION OF:



CITY OF MONTEBELLO



Department of Public Works

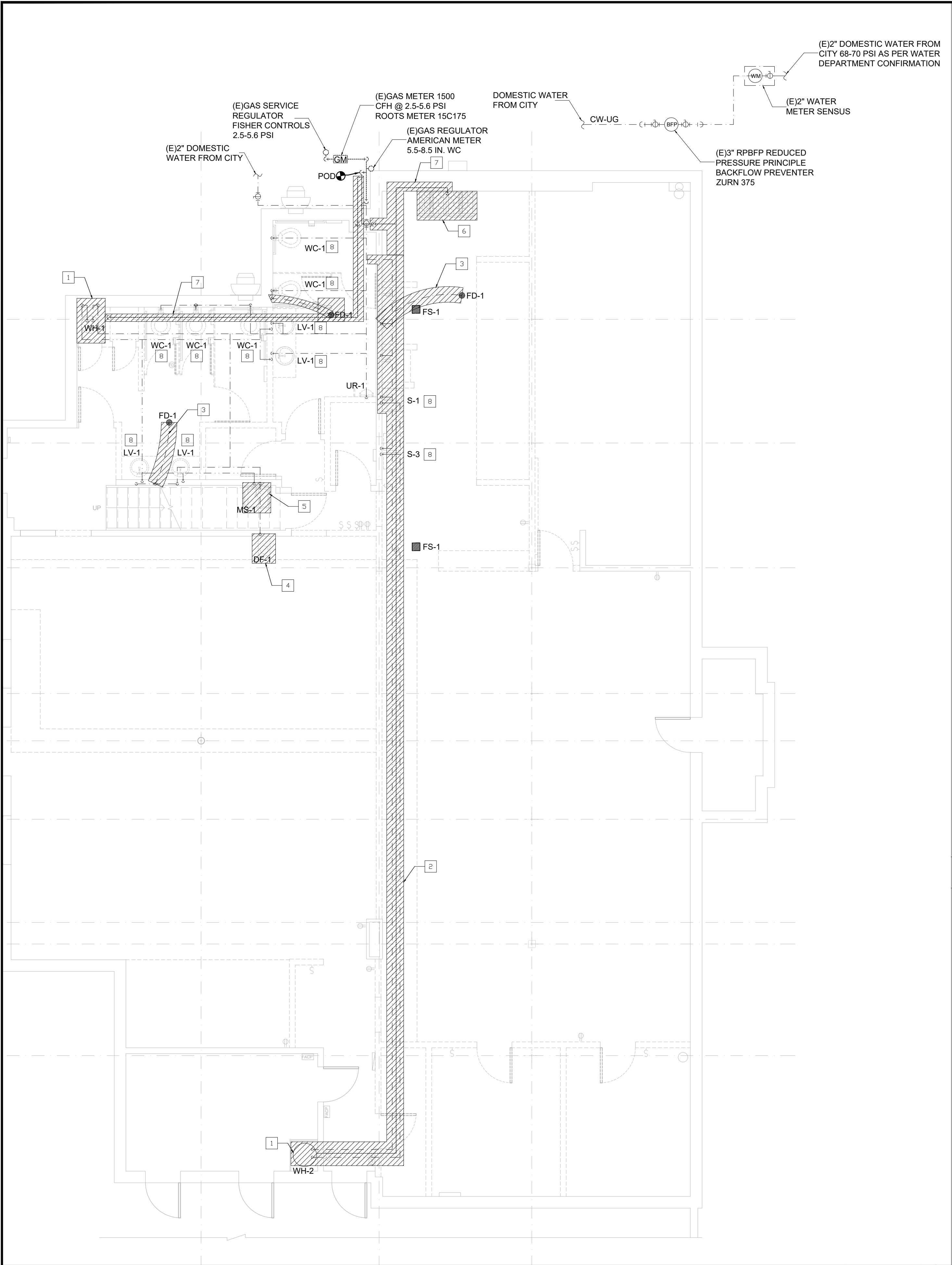
SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello,CA 90640

MECHANICAL SYMBOL, GENERAL
NOTES AND SCHEDULES

Sheet Number:

P1.0



PLUMBING PLAN NOTES

- 1 REMOVE AND DEMOLISH THE EXISTING WATER HEATER, POWER, CONTROL, PIPES AND ALL RELATED ACCESSORIES.
- 2 REMOVE AND DEMOLISH HOT & COLD DOMESTIC WATER PIPE AND ANY EXISTING GAS PIPE FROM WATER HEATER TO KITCHEN.
- 3 REMOVE AND DEMOLISH TRAP PRIMER AND RELATED PLUMBING FROM FLOOR DRAIN.
- 4 REMOVE AND DEMOLISH THE EXISTING DRINKING FOUNTAIN, POWER, CONTROL, PIPES AND ALL RELATED ACCESSORIES.
- 5 REMOVE AND DEMOLISH THE EXISTING MOP SINK, PIPES AND ALL RELATED ACCESSORIES.
- 6 REMOVE AND DEMOLISH THE KITCHEN RANGE.
- 7 REMOVE AND DEMOLISH ALL EXISTING GAS PIPES FROM PROJECT TO GAS METER.
- 8 REMOVE AND DEMOLISH ALL EXISTING PLUMBING FIXTURES INCLUDING WATER CLOSET, LAVATORY, SINK WITH ALL RELATED ACCESSORIES. CAP COLD WATER, HOT WATER AND SEWER AND PREPARE FOR NEW PLUMBING FIXTURE.

PLUMBING COLD WATER , HOT WATER AND GAS - DEMO

SCALE
3/16"=1'-0"

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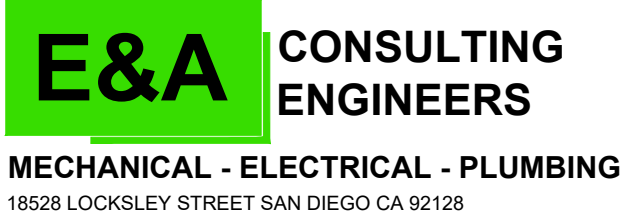


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4133.

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CITY OF MONTEBELLO

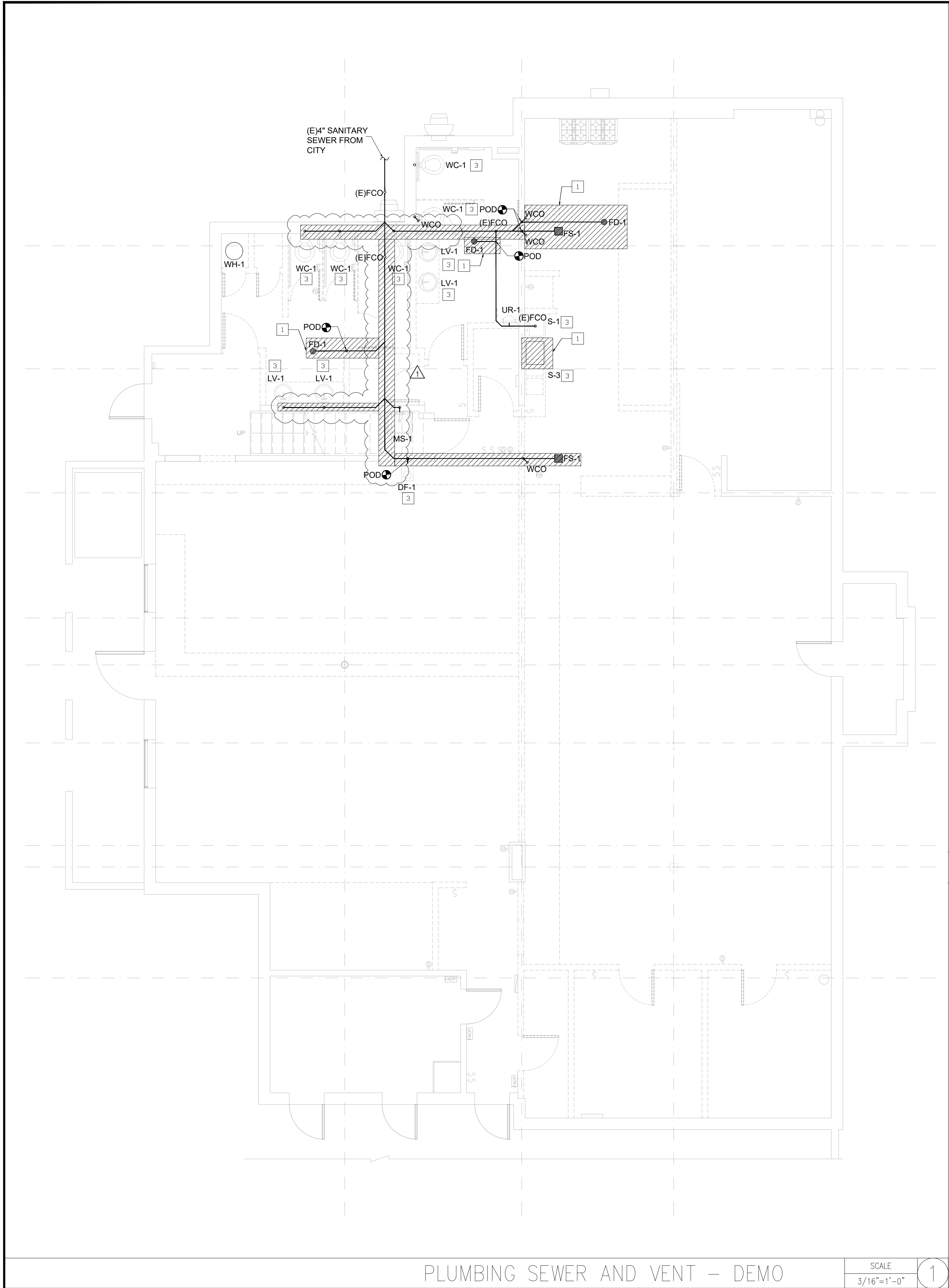


Department of Public Works

SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
PLUMBING COLD WATER , HOT WATER AND GAS - DEMO

Sheet Number:

P2.0



PLUMBING PLAN NOTES

- 1 REMOVE AND DEMOLISH FLOOR SINKS AND FLOOR DRAINS. REMOVE SANITARY SEWER PIPES ALL THE WAY BACK TO MAIN CONNECTION POINT UNLESS NOTED OTHERWISE.
- 2 REMOVE AND DEMOLISH UNDERGROUND GREASE TRAP. REMOVE SANITARY SEWER PIPES ALL THE WAY TO THE POINT OF DISCONNECTION.
- 3 REMOVE AND DEMOLISH ALL EXISTING PLUMBING FIXTURES INCLUDING, WATER CLOSET, LAVATORY, SINK WITH ALL RELATED ACCESSORIES, CAP COLD WATER, HOT WATER AND SEWER AND PREPARE FOR NEW PLUMBING FIXTURE.

GENERAL NOTES

1. REMOVE:
ALL EXISTING SANITARY SEWER PIPING WITHIN PROJECT AREA.
ALL DOMESTIC COLD WATER PIPING
ALL ABANDONED BRANCHES AND UNUSED CONNECTIONS.
2. CONTRACTOR SHALL REMOVE ALL EXISTING PIPING WITHIN PROJECT LIMITS BACK TO MAIN CONNECTION POINT UNLESS NOTED OTHERWISE.

PLUMBING SEWER AND VENT – DEMO

SCALE
3/16"=1'-0"

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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E&A CONSULTING ENGINEERS

MECHANICAL - ELECTRICAL - PLUMBING

18528 LOCKSLEY STREET SAN DIEGO CA 92128

CITY OF MONTEBELLO

Department of Public Works

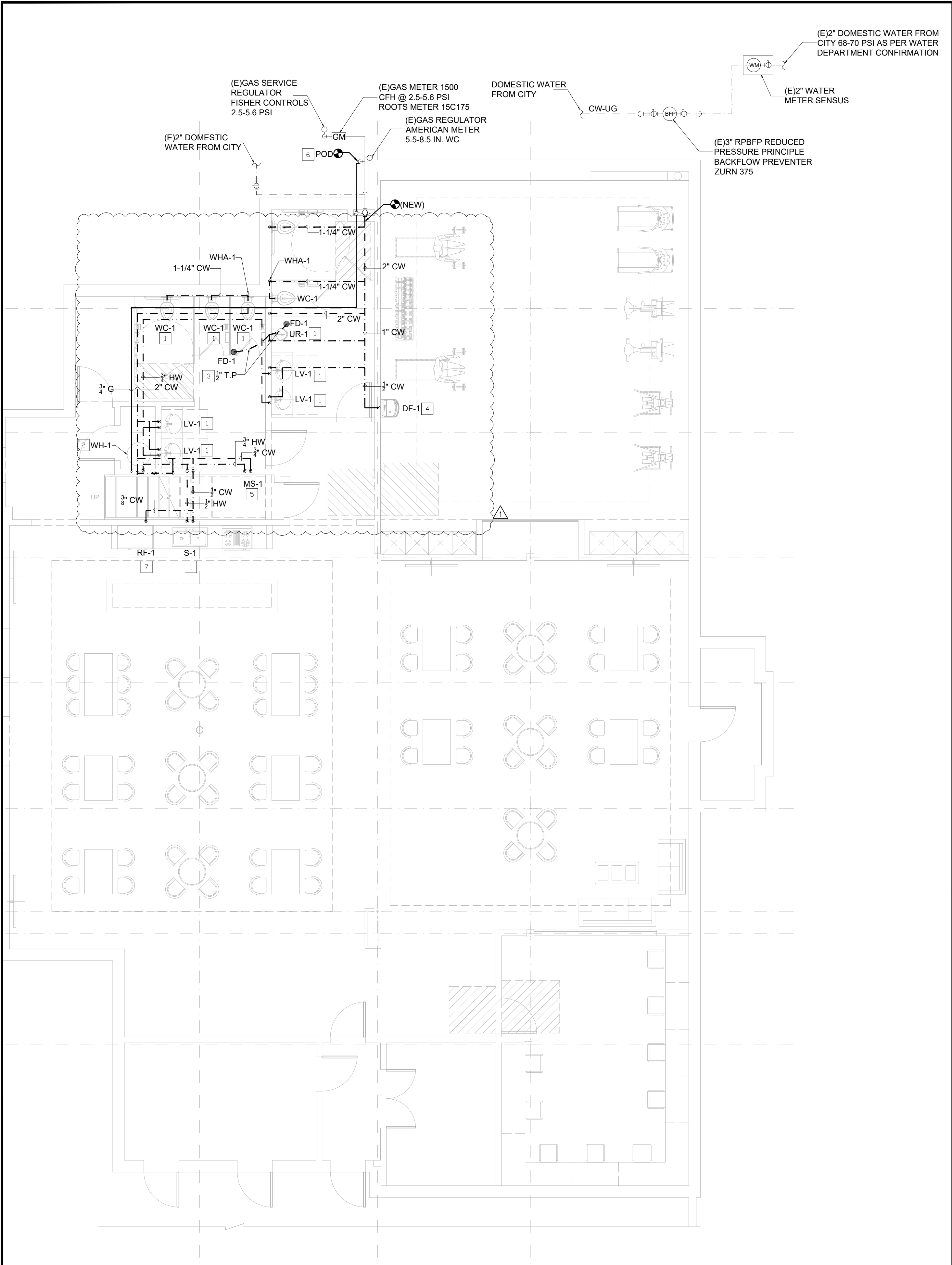
SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

PLUMBING SEWER AND VENT - DEMO

Sheet Number:

P2.1



GENERAL NOTES

- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND / OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
- CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
- THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
- THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
- ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
- WHERE A HOT WATER RECIRCULATIONS INSTALLED, THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC610.4.1.2)
- PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
- ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.

PLUMBING PLAN NOTES

1

PROVIDE NEW PLUMBING FIXTURES INCLUDING, WATER CLOSET, URINAL, LAVATORY, SINK WITH ALL RELATED ACCESSORIES. CONNECT THEM TO THE NEAREST NEW COLD WATER, HOT WATER AND SEWER.

2

PROVIDE NEW GAS TANK WATER HEATER, POWER CONTROL, PIPES AND ALL RELATED ACCESSORIES.

3

PROVIDE TRAP PRIMER AND RELATED PLUMBING FOR FLOOR DRAIN. ACCESS PANEL SHOULD BE PROVIDED.

4

PROVIDE NEW DRINKING FOUNTAIN, POWER, CONTROL, PIPES AND ALL RELATED ACCESSORIES.

5

PROVIDE NEW MOP SINK, PIPES AND ALL RELATED ACCESSORIES.

6

POINT OF CONNECTION TO AN EXISTING GAS PIPE.

7

PROVIDE COLD WATER FOR REFRIGERATOR

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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MECHANICAL - ELECTRICAL - PLUMBING
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CITY OF MONTEBELLO

Department of Public Works

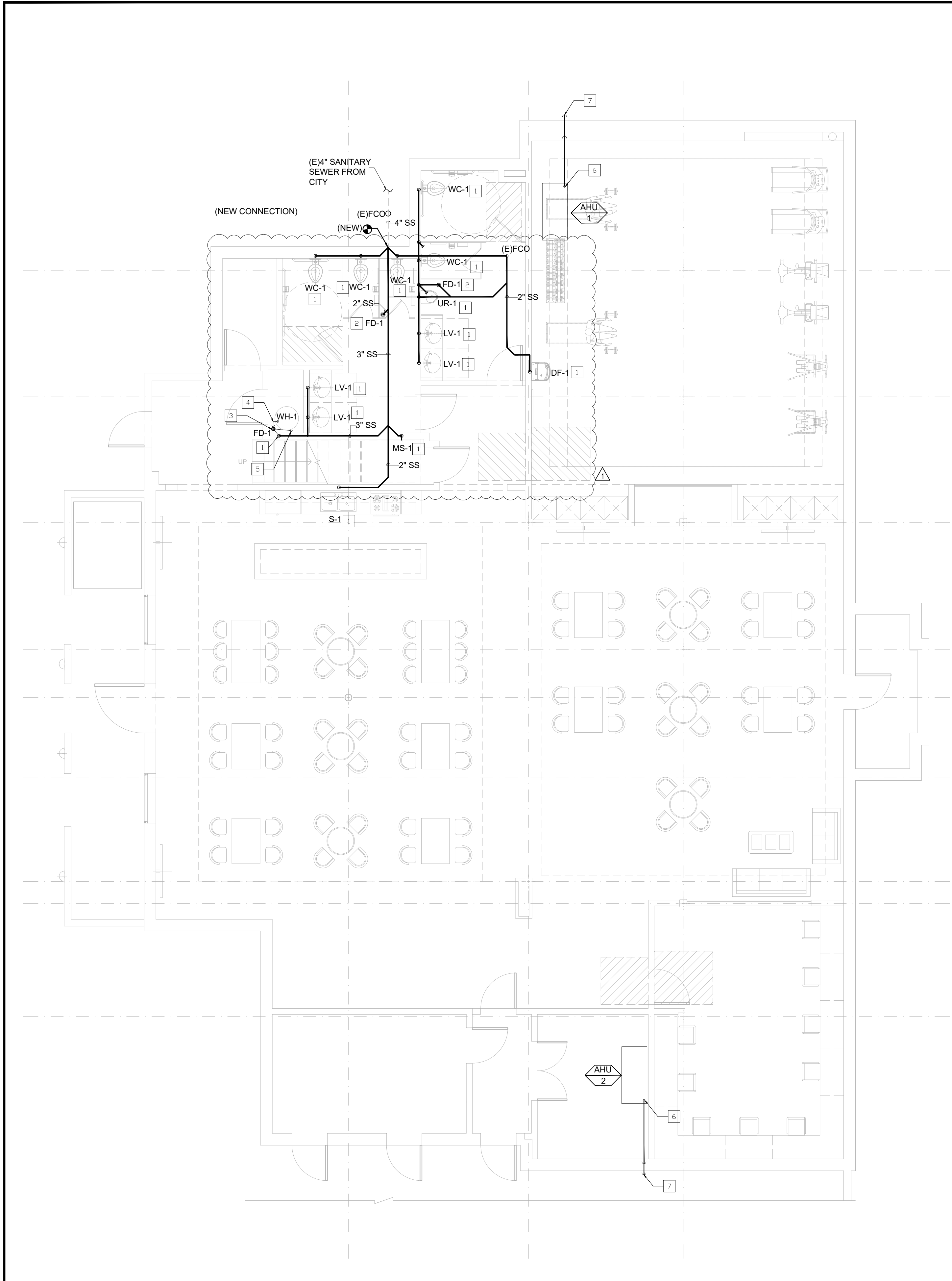
SENIOR CENTER REMODEL

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PLUMBING COLD WATER, HOT WATER AND GAS - NEW

Sheet Number:

P3.0



GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND / OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
2. CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
3. THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
4. THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
5. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
6. WHERE A HOT WATER RECIRCULATIONS INSTALLED, THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC610.4.1.2)
7. PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
8. ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.
9. NEW SANITARY SEWER SYSTEM SHALL CONNECT TO EXISTING BUILDING SEWER AT DESIGNATED POINT. EXACT LOCATION AND ELEVATION SHALL BE VERIFIED.
10. PROVIDE CLEANOUTS PER CPC REQUIREMENTS AT BASE OF STACKS, CHANGES IN DIRECTION AND INTERVALS NOT EXCEEDING CODE LIMITS.
11. PROVIDE COMPLETE VENT SYSTEM AS PER CPC. ALL FIXTURES SHALL BE PROPERLY VENTED.

PLAN NOTES

1. CONNECT NEW PLUMBING FIXTURES TO THE NEW SEWER AND VENT PIPES.
2. NEW EMERGENCY FLOOR DRAIN FOR RESTROOMS.
3. NEW FLOOR DRAIN FOR WATER HEATER DRAINAGE.
4. T&P RELIEF DISCHARGE INDIRECTLY TO THE FLOOR DRAIN.
5. CONDENSATE DISCHARGE TO THE FLOOR DRAIN.
6. CONDENSATE FROM AIR-COOLING COILS SHALL BE COLLECTED AND DISCHARGED TO AN APPROVED PLUMBING FIXTURE OR DISPOSAL AREA. WHERE DISCHARGED INTO THE DRAINAGE SYSTEM, EQUIPMENT SHALL DRAIN USING AN INDIRECT WASTE PIPE. THE WASTE PIPE SHALL HAVE A SLOPE OF NOT LESS THAN 1/8" INCH PER FOOT (10.4 MM/M) OR 1 PERCENT SLOPE AND SHALL BE OF AN APPROVED CORROSION-RESISTANT MATERIAL NOT SMALLER THAN THE OUTLET SIZE IN ACCORDANCE WITH SECTION 814.3 OR SECTION 814.4 FOR AIR-COOLING COILS OR CONDENSING APPLIANCES, RESPECTIVELY. CONDENSATE OR WASTEWATER SHALL NOT DRAIN OVER A PUBLIC WAY.
7. AIR-CONDITIONING CONDENSATE WASTE PIPES SHALL CONNECT INDIRECTLY, EXCEPT WHERE PERMITTED IN SECTION 814.6, TO THE DRAINAGE SYSTEM THROUGH AN AIR GAP OR AIR BREAK TO DRY WELLS. A CONDENSATE DRAIN SHALL BE TRAPPED IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTRUCTIONS OR AS APPROVED.

PLUMBING SEWER AND VENT-NEW

SCALE
3/16"=1'-0"

1

UNDER THE SUPERVISION OF:

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CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

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PLUMBING WASTE AND VENT -NEW

Sheet Number:

P3.1

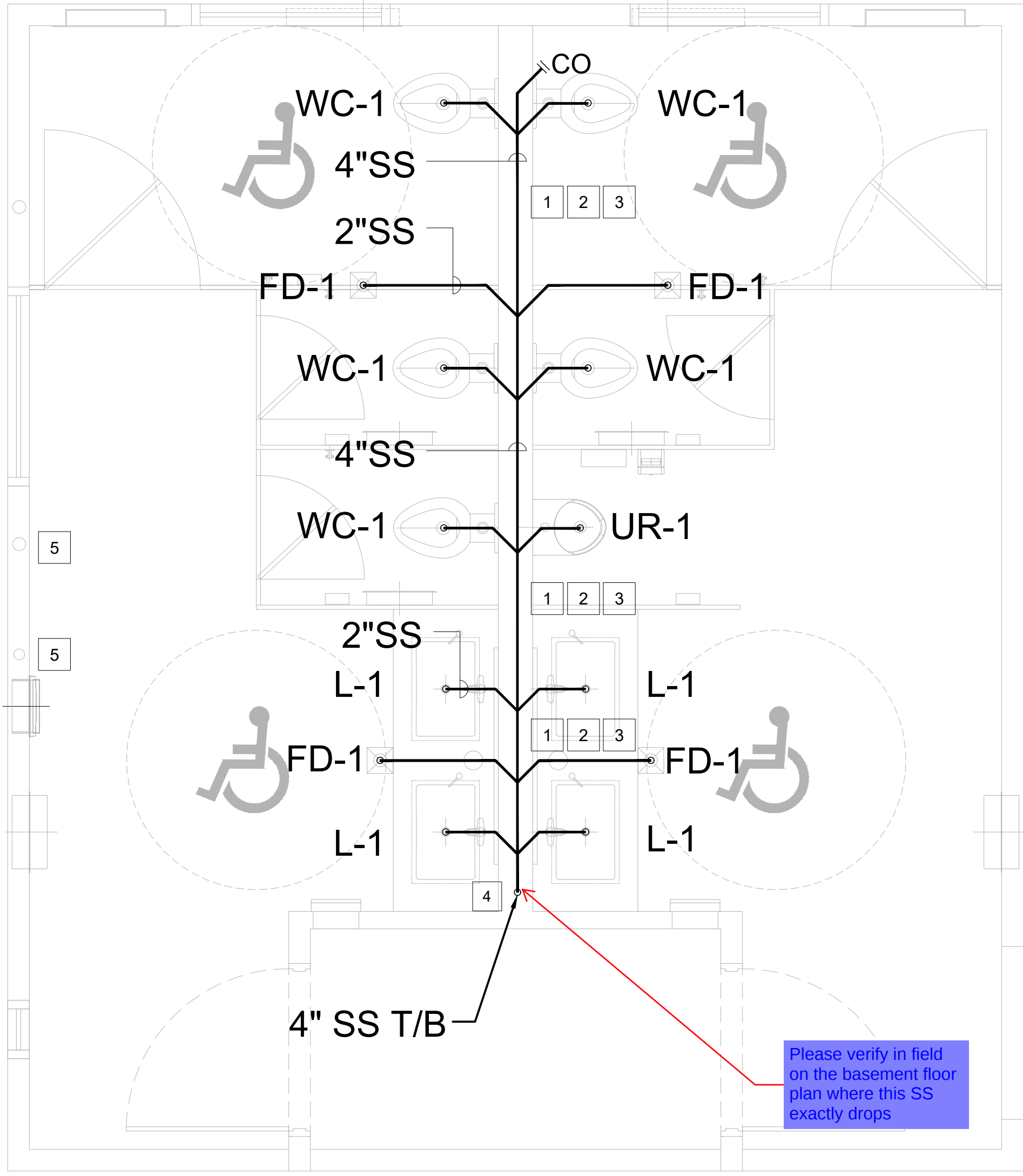
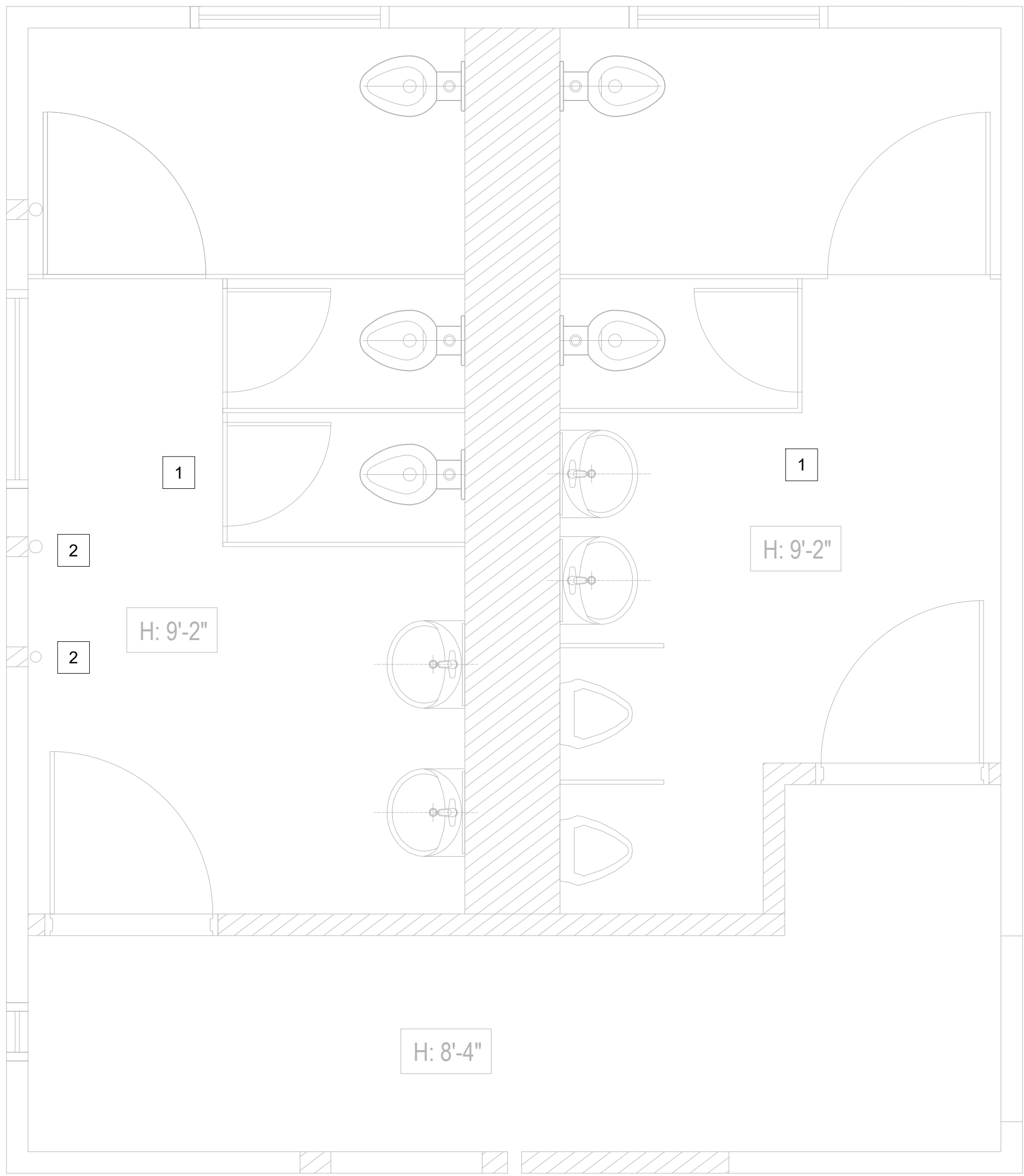
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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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PLUMBING WASTE & VENT – DEMO

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

WASTE & VENT DEMO NOTES

- 1 REMOVE AND DEMOLISH ALL EXISTING PLUMBING FIXTURES INCLUDING WATER CLOSET, LAVATORY, SINK WITH ALL RELATED ACCESSORIES. CAP COLD WATER, HOT WATER AND SEWER AND PREPARE FOR NEW PLUMBING FIXTURE.
- 2 RELOCATE THE EXISTING PIPES PER ARCHITECTURAL DRAWINGS, RECONNECT AT THE SAME LOCATION AT BASEMENT AND THE ROOF.

GENERAL NOTES(CONTINUE)

13. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES
14. REFER TO THE PLUMBING ROUGH-IN SCHEDULES FOR THE SIZES OF BRANCH PIPES OF FIXTURES NOT SHOWN ON PLANS.
15. REFER TO FIXTURE AND EQUIPMENT DESIGNATION. SEE CORRESPONDING SPECIFICATION & EQUIPMENT SCHEDULE FOR FURTHER INFORMATION.
16. PROVIDE ACCESS DOORS FOR SHOCK ABSORBERS, TRAP PRIMERS AND VALVES. COORDINATE FINAL LOCATIONS WITH PARTITIONS AND ARCHITECT.
17. PIPE SIZES SHOWN ARE FOR DESIGN INTENT ONLY. CONTRACTOR SHALL ADJUST PIPE SIZES AS REQUIRED BASED ON FIELD CONDITIONS AND CODE REQUIREMENTS.
18. NEW WASTE BRANCH MAY RECONNECT TO EXISTING SANITARY BRANCH IN FIELD WHERE FEASIBLE. SEE GENERAL NOTES.

GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND / OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
2. CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
3. THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
4. THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
5. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
6. WHERE A HOT WATER RECIRCULATIONS INSTALLED, THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC610.4.1.2)
7. PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
8. ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.
9. EXISTING PIPING LOCATIONS, SIZES, AND ELEVATIONS ARE BASED ON LIMITED INFORMATION AND HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
10. EXISTING PIPING TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
11. EXISTING PIPING TO BE ABANDONED SHALL BE CAPPED, PLUGGED, OR REMOVED BACK TO ACTIVE MAINS AS REQUIRED.
12. PROVIDE CLEANOUTS PER CPC REQUIREMENTS AT BASE OF STACKS, CHANGES IN DIRECTION, AND WHERE REQUIRED BY CODE.

PLUMBING WASTE & VENT – NEW

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

WASTE & VENT NEW NOTES:

- 1 CONNECT NEW PLUMBING FIXTURES TO NEW SANITARY SEWER AND EXISTING VENT SYSTEMS AT NEAREST FEASIBLE LOCATIONS. EXACT CONNECTION POINTS SHALL BE DETERMINED IN THE FIELD.
- 2 CONTRACTOR SHALL VERIFY CAPACITY, SIZE AND CONDITION OF EXISTING SANITARY AND VENT PIPING PRIOR TO CONNECTION. NOTIFY ENGINEER IF EXISTING SYSTEM IS INADEQUATE.
- 3 PROVIDE COMPLETE WASTE AND VENT SYSTEM FOR ALL NEW FIXTURES IN ACCORDANCE WITH CPC REQUIREMENTS. ALL FIXTURES SHALL BE PROPERLY TRAPPED AND VENTED.
- 4 4"ø SANITARY PIPE DOWN AND RUN BELOW SLAB AT BASEMENT CEILING TO CONNECT TO EXISTING SANITARY PIPE.
- 5 RELOCATE EXISTING PIPING PER ARCHITECTURAL DRAWINGS. RECONNECT ALL PIPING TO EXISTING SYSTEMS AT THE BASEMENT AND ROOF LEVELS. EXISTING PIPE TYPE, SIZE, AND SERVICE ARE UNKNOWN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING PIPE ROUTING AND SERVICES, PRIOR TO COMMENCING WORK. CONTRACTOR SHALL COORDINATE WITH ARCHITECT, GENERAL CONTRACTOR AND FACILITY TO IDENTIFY SYSTEM IMPACTS AND MAINTAIN BUILDING OPERATIONS. ANY REQUIRED SHUTDOWNS SHALL BE COORDINATED AND APPROVED BY THE FACILITY IN ADVANCE. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO PROCEEDING.

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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NO.		DATE	REVISIONS DESCRIPTION
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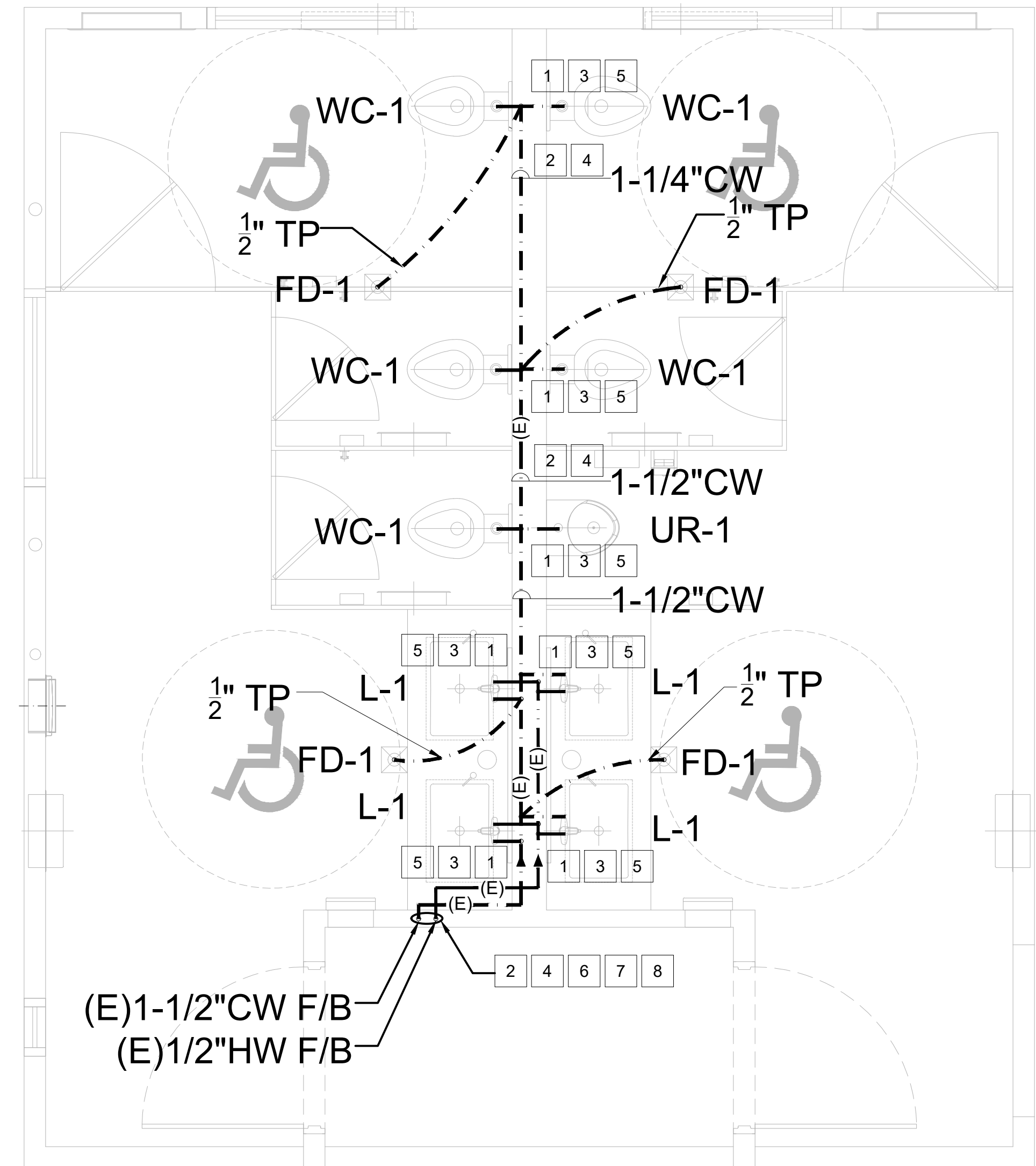
CITY OF MONTEBELLO

Department of Public Works

SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
PLUMBING WASTE & VENT - DEMO & NEW

Sheet Number:
P3-1.0

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PLUMBING COLD AND HOT WATER – NEW

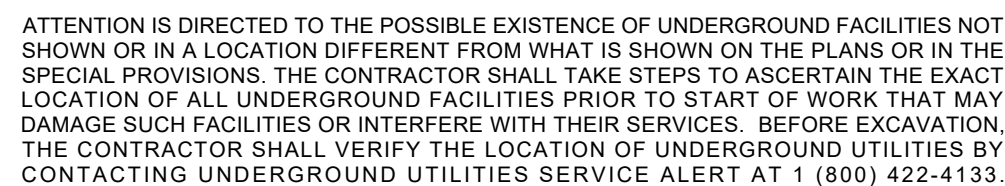
SCALE
1/2"=1'-0"

GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND / OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
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3. THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
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5. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
6. WHERE A HOT WATER RECIRCULATIONS INSTALLED, THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC610.4.1.2)
7. PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
8. ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.
9. EXISTING PIPING LOCATIONS, SIZES, AND ELEVATIONS ARE BASED ON LIMITED INFORMATION AND HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
10. EXISTING PIPING TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
11. EXISTING PIPING TO BE ABANDONED SHALL BE CAPPED, PLUGGED, OR REMOVED BACK TO ACTIVE MAINS AS REQUIRED.

COLD & HOT WATER NEW NOTES:

- 1 RECONNECT NEW PLUMBING FIXTURES TO EXISTING COLD WATER (CW) AND HOT WATER (HW) SYSTEMS AT NEAREST FEASIBLE LOCATIONS. EXACT CONNECTION POINTS SHALL BE FIELD VERIFIED.
- 2 CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE, PIPE SIZES, AND AVAILABLE CAPACITY PRIOR TO CONNECTION.
- 3 PROVIDE COMPLETE COLD AND HOT WATER DISTRIBUTION SYSTEM TO SERVE ALL NEW FIXTURES IN ACCORDANCE WITH CPC REQUIREMENTS.
- 4 PIPE SIZES SHOWN ARE DIAGRAMMATIC AND SHALL BE VERIFIED AND ADJUSTED IN FIELD BASED ON ACTUAL CONDITIONS.
- 5 PROVIDE SHUTOFF VALVES AT EACH BRANCH CONNECTION AND AT EACH FIXTURE AS REQUIRED BY CODE.
- 6 CONNECT NEW CW PIPING TO EXISTING COLD WATER LINE IN FIELD. EXACT LOCATION, PIPE SIZE, AND ROUTING SHALL BE FIELD VERIFIED.
- 7 CONNECT NEW HW PIPING TO EXISTING HOT WATER LINE IN FIELD. CONTRACTOR SHALL VERIFY EXISTING HOT WATER ROUTING AND AVAILABLE CAPACITY PRIOR TO CONNECTION.
- 8 CONTRACTOR TO VERIFY PIPING ON SITE IF THE EXISTING MAIN WOULD BE SUFFICIENT AND EQUAL OR BIGGER THAN WHAT IS NEEDED.



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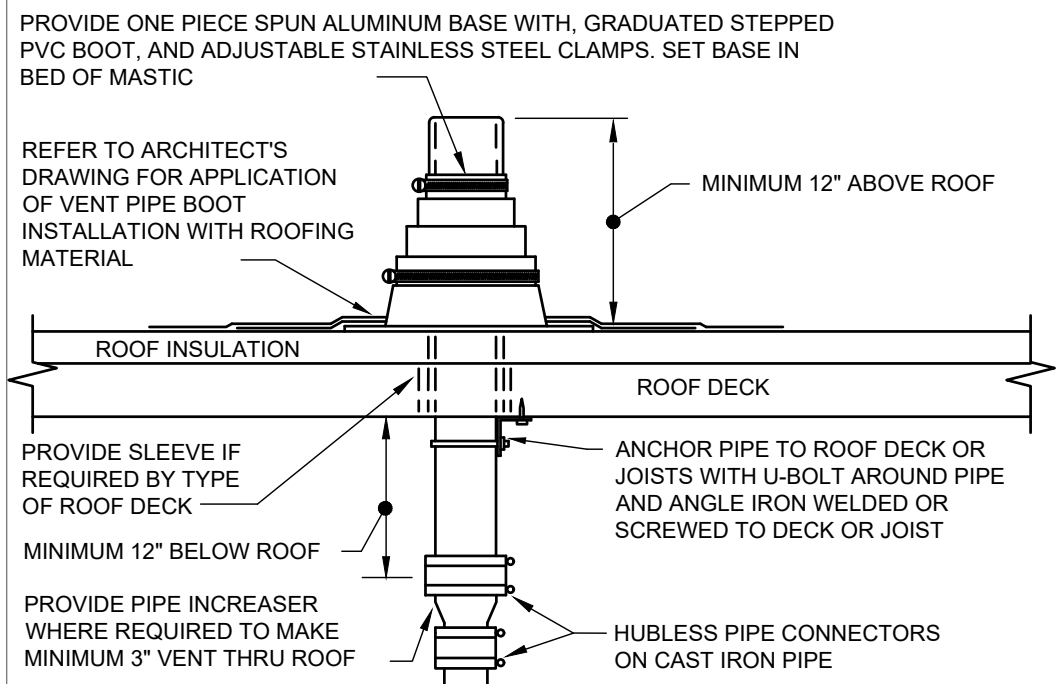
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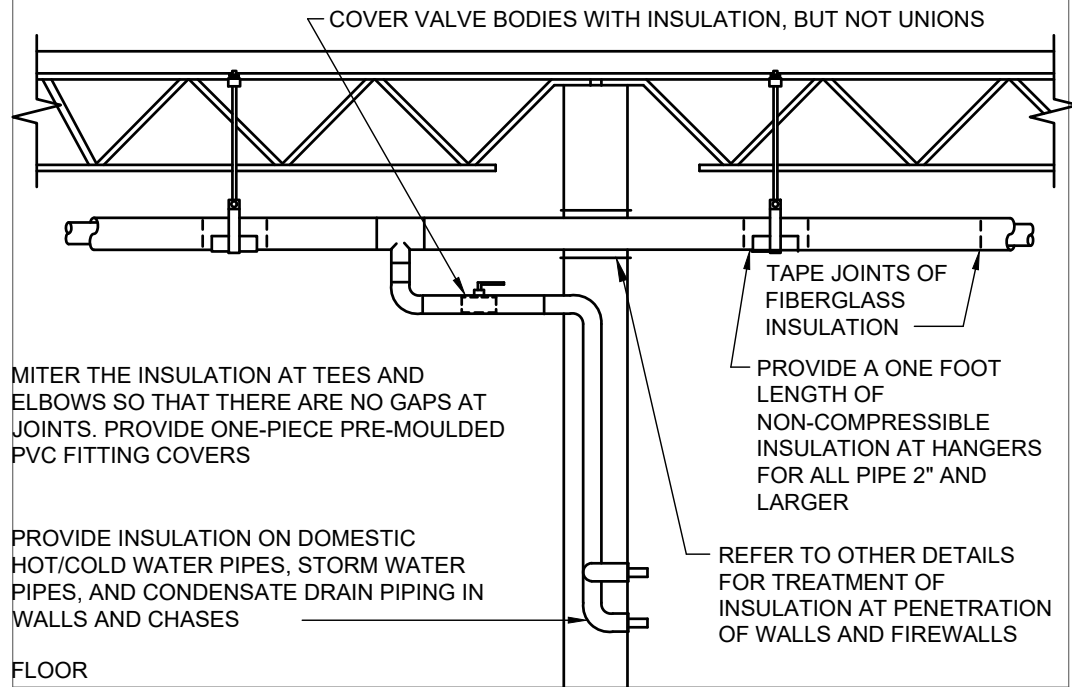
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REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1\"/>

01 VENT THRU ROOF (VTR)

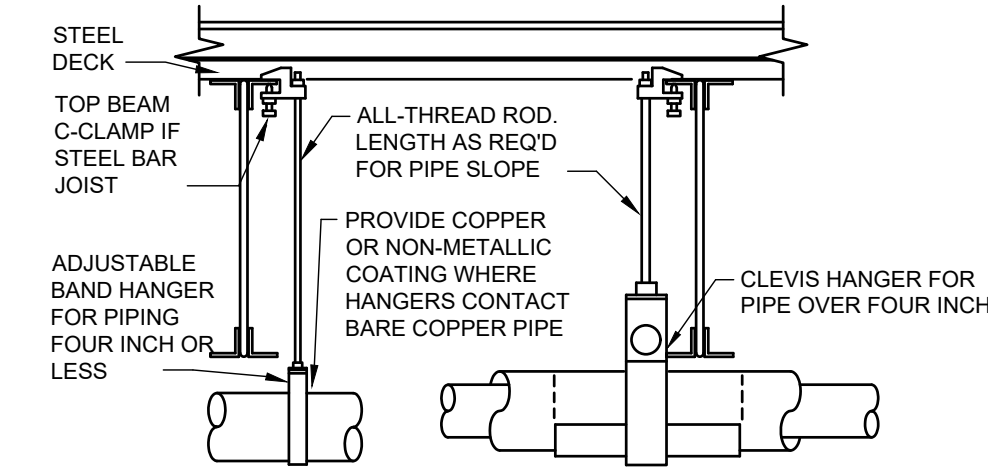
NOT TO SCALE



PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

02 PIPE INSULATION

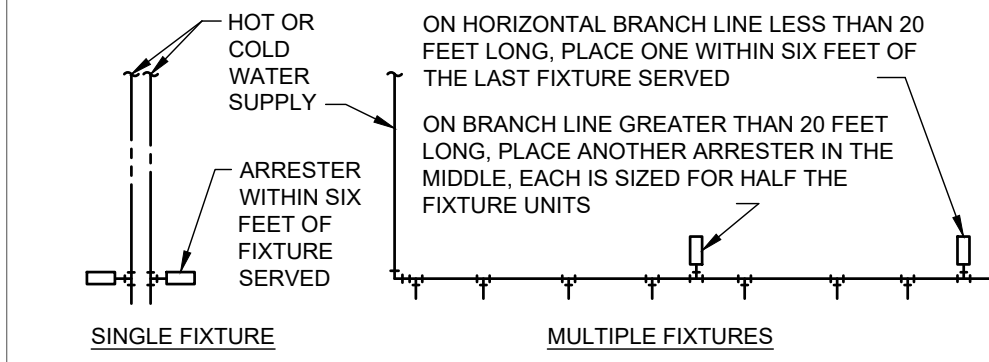
NOT TO SCALE



PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4\"/>

03 PIPE HANGERS

NOT TO SCALE



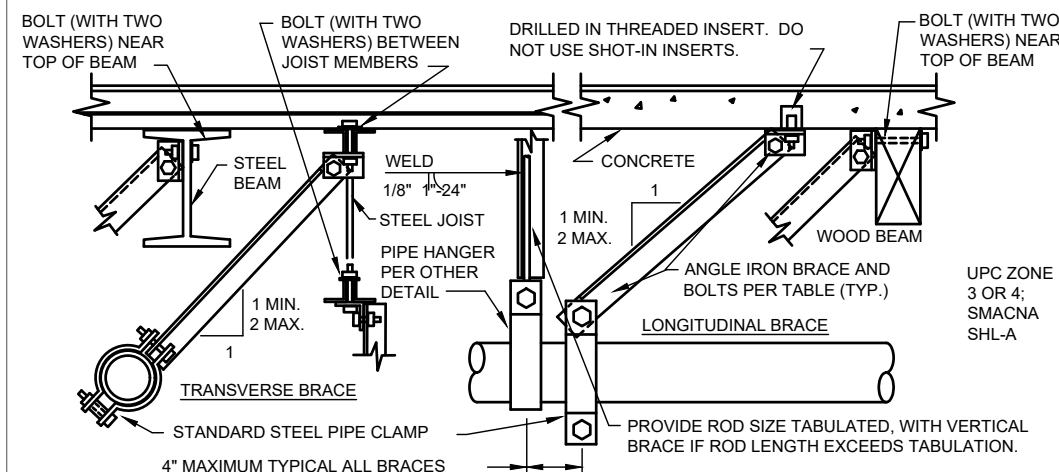
PDI SIZE	FIXTURE UNIT LOAD
AA	1-3
A	4-11
B	12-32
C	33-60
D	61-113

FIXTURE	COLD	HOT
TANK WATER CLOSET	5	-
URINAL	5	-
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
DRINKING FOUNTAIN	0.5	-

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER.)

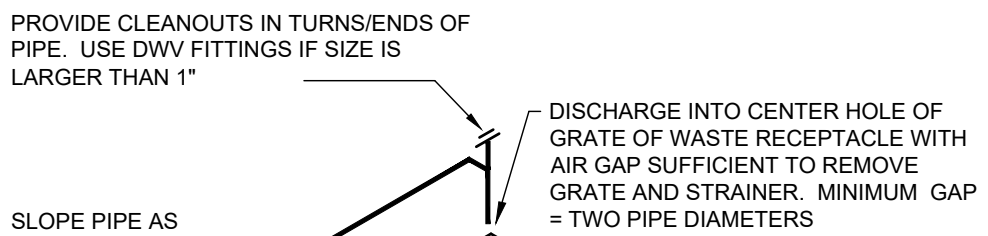
04 WATER HAMMER ARRESTERS

NOT TO SCALE



DO NOT BRACE ANY PIPES WHERE TOP OF PIPE TO BOTTOM OF UPPER ATTACHMENT IS LESS THAN 12\"/>

PIPE SIZE	SPACING		TRANSVERSE BRACE	LONGITUDINAL BRACE	BOLT SIZE	ROD SIZE	MAX ROD LENGTH	VERTICAL BRACE
	TR	LO						
1"-2"	20'	20'	2"x2"x18GA	2"x2"x18GA	3/4"	3/4"	20'	2"x2"x18GA
2 1/2"-3"	40'	40'	2 1/2"x2 1/2"x16GA	2 1/2"x2 1/2"x16GA	3/4"	3/4"	25'	2"x2"x16GA
4"-5"	40'	40'	2 1/2"x2 1/2"x16GA	2 1/2"x2 1/2"x16GA	3/4"	3/4"	31'	2"x2"x16GA
6"	40'	40'	2 1/2"x2 1/2"x12GA	2 1/2"x2 1/2"x12GA	1/2"	3/4"	37'	2 1/2"x2 1/2"x16GA
8"	40'	40'	2 1/2"x2 1/2"x12GA	2 1/2"x2 1/2"x12GA	3/4"	1"	43'	2 1/2"x2 1/2"x12GA
10"	20'	20'	2 1/2"x2 1/2"x12GA	2 1/2"x2 1/2"x12GA	3/4"	1"	43'	2 1/2"x2 1/2"x12GA

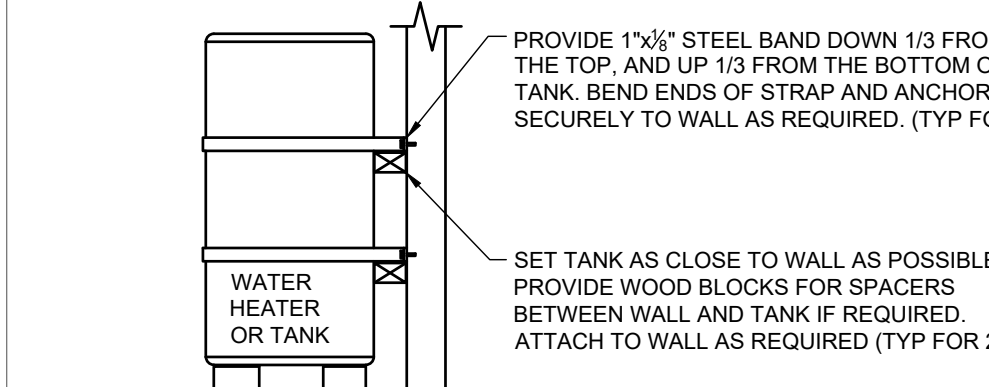


MAKE PIPE MINIMUM ONE SIZE LARGER THAN EQUIPMENT CONNECTION, MINIMUM 3/4\"/>

ROUTE PIPE INCONSPICUOUSLY AND UNOBTUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

06 INDIRECT DRAIN

NOT TO SCALE



ANCHOR TANK LEGS TO FLOOR OR PLATFORM OR AS REQUIRED BY LOCAL CODE AUTHORITIES.

07 TANK SEISMIC RESTRAINT

NOT TO SCALE

Engineering Specification

ES-TP300

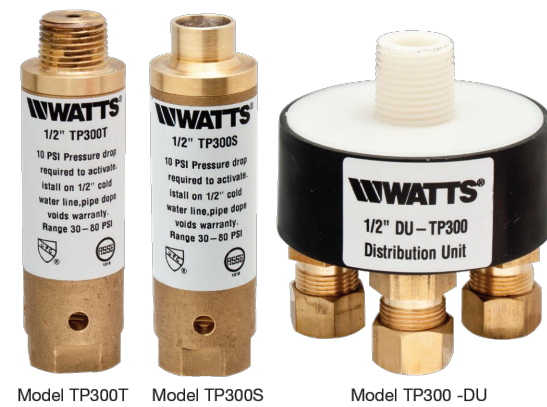
Job Name _____ Contractor _____
Job Location _____ Approval _____
Engineer _____ Contractor's P.O. No. _____
Approval _____ Representative _____

Series TP300

Trap Primer

Size: 1/2"

The TP300 operates by sensing the pressure drop in the supply line from downstream fixtures or appliances. The pressure reduction above the Valve Disc (2) causes the disk to move upward opening the Lower Disc Seal (4) and closing off the Upper Disc Seal (1). With the Lower Disc Seal (4) open the stored air pressure in the Air Chamber (5) pushes a portion of the contained volume of water from the lower chamber out through the opening beneath the Lower Disc Seal (4) to prime the trap. When there is no longer a demand in the supply line and the full line pressure is restored, the Valve Disc (2) lowers, opening the Upper Disc Seal (1), allowing flow through the One Way Seal (3), sealing the Lower Disc Seal (4) and recharging the Air Chamber (5) for the next pressure drop cycle.



Options

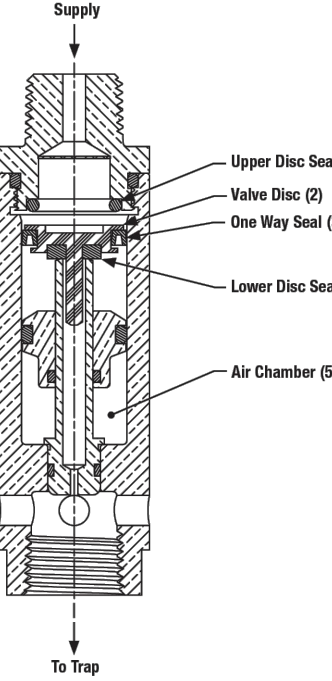
- TP300T Threaded Connections
- TP300S Union Solder Ends
- TP300-DU Distribution Unit

Features

- Built in vacuum breaker

Specifications

A trap primer shall be installed in plumbing systems to prevent floor drain traps from losing their water seal by evaporation. Maintaining the water seal will prevent the backflow of sewer gas into the buildings or rooms where the traps are installed. Trap primers are specified in various plumbing codes such as IPC/ASPE, Southern Standard Building Code, National Standard Plumbing Code and many state and local plumbing codes in U.S.A. and Canada. The device shall meet the requirements of ASSE Standard 1018. Watts Series TP300T (threaded), or TP300S (solder).



NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please consult Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications to Watts products previously or subsequently sold.



Materials

Brass Body with EPDM Seals

Pressure

Maximum supply pressure: 125psi (8.6 bar).
Minimum supply pressure must exceed 25psi (172 kPa).
For proper trap priming, minimum flows must exceed those stated in flow chart.

Standards



Tested and approved in conformance with Standard 1018 of the American Society of Sanitary Engineers. Listed by IAPMO.

Flow Chart

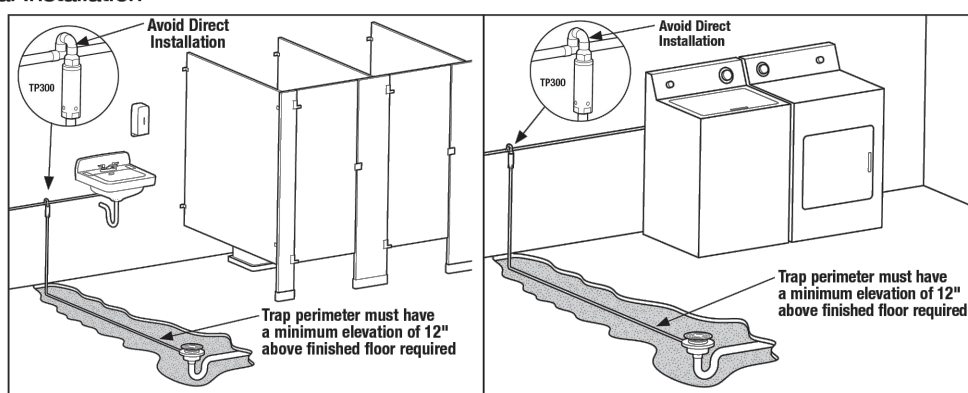
INLET PRESSURE	25	50	75	100	125
CFM	1.1	1.6	2.0	2.3	2.4
GPM	4.2	6.1	7.6	8.7	9.1

*Minimum cold flow required for proper trap priming.

Dimensions - Weights

MODEL	SIZE	DIMENSIONS				WEIGHT	
		A	B	C	D	E	F
TP300T	1/2"	110	110	32	—	1.8	45
TP300S	1/2"	110	110	32	—	2.0	45
TP300-DU	1/2"	79	79	21 1/2	71	47	74

Typical Installation



USA: T: (878) 689-6006 • F: (878) 975-8300 • Watts.com
Canada: T: (888) 238-8027 • F: (805) 491-2316 • Watts.ca
Latin America: T: (52) 55-4122-0158 • Watts.com

ES-TP300 2264

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09 TRAP PRIMER

REFER TO SHEET P2.0

Sheet Number:

P4.0

P.N.: 2.1000.03

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT



A. O. Smith
Phone: 1.866.362.9898
www.aosmith.com

Pro-Size Selection Report

February 22, 2025

Project Information

Project #: 2025-00CA
Project Name: Montebello Senior Center
Location: California
Engineer: SZ
Contractor: NA

Prepared for: City of Montebello
Prepared by: SZ

Selected Product

BTH-120 Mxi
Cyclone® Mxi Modulating
Heaters: 1
Model Number: BTH-120 Mxi
Heater Storage (ea): 60 USG
Input (ea): 120,000 Btu/hr
New External Tanks: 0
Tank Capacity (ea): 0 USG
Total Usable Storage: 42 USG



Model Number	Hi-Cube Tank Unit Factor	Gallon Capacity	Recovery Capacity (GPH) 99 Degree Rise	Input BTU/Hr	Height	Diameter	Approx. Shipping Weight (lbs.)
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- Standard and Low profile concentric vent available
- Vents with PVC, CPVC polypropylene and AL-29-4C Stainless steel
- Venting distances of up to 120' on all models
- Meets or exceeds the thermal efficiency and/or standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Meets NSF requirement's (no leg kit needed)
- Up to 98% Thermal Efficiency
- Down-Fired Low-NOx Powdered-Burner Design
- Fully Submerged, Spiral-Shaped Condensing Heat Exchanger
- Complies with SCAGMD Rule 1146.2
- SideWall and Vertical power vent and direct Vent Options
- Space-Saving Design, with Zero Clearance to Combustibles

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Application Loads

Summary

Peak Demand: 19 USGPH Temperature Rise: 70 °F

Sizing Notes

Hot water loads for pools, hot tubs, or other uses should be considered separately. Restaurant or food service loads should be considered separately if independent water heating equipment is to be used.

Application Settings

Type: _____ Country / Health Club: _____
Building Use: Not Specified Cold Water Temp: 70 °F

*A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. © A. O. Smith reserves the right to make changes to Pro-Size without notice.

Page 1 of 2



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

NO.	DATE	BY	REVISIONS DESCRIPTION	APPROV.
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UNDER THE SUPERVISION OF:



MECHANICAL & PLUMBING ENGINEERS
12208 WITT ROAD,
POWAY, CA92064
(949)241-7796



INFRASTRUCTURE ARCHITECTS

iARCH

DESIGNED BY: iArch
DRAWN BY: iArch
CHECKED BY: iArch DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER RENOVATION

115 South Taylor Ave., Montebello, CA 90640

PLUMBING DETAILS