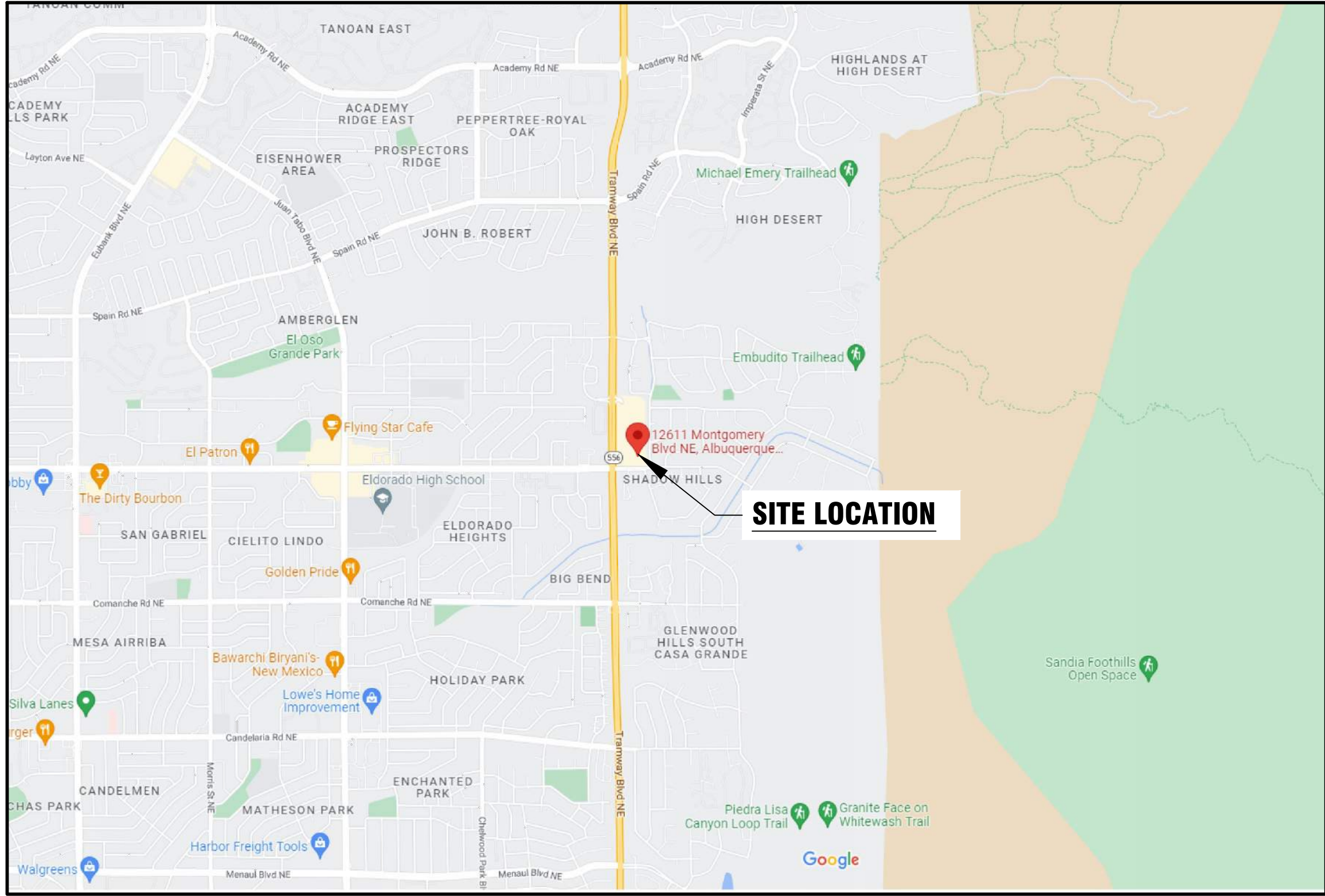
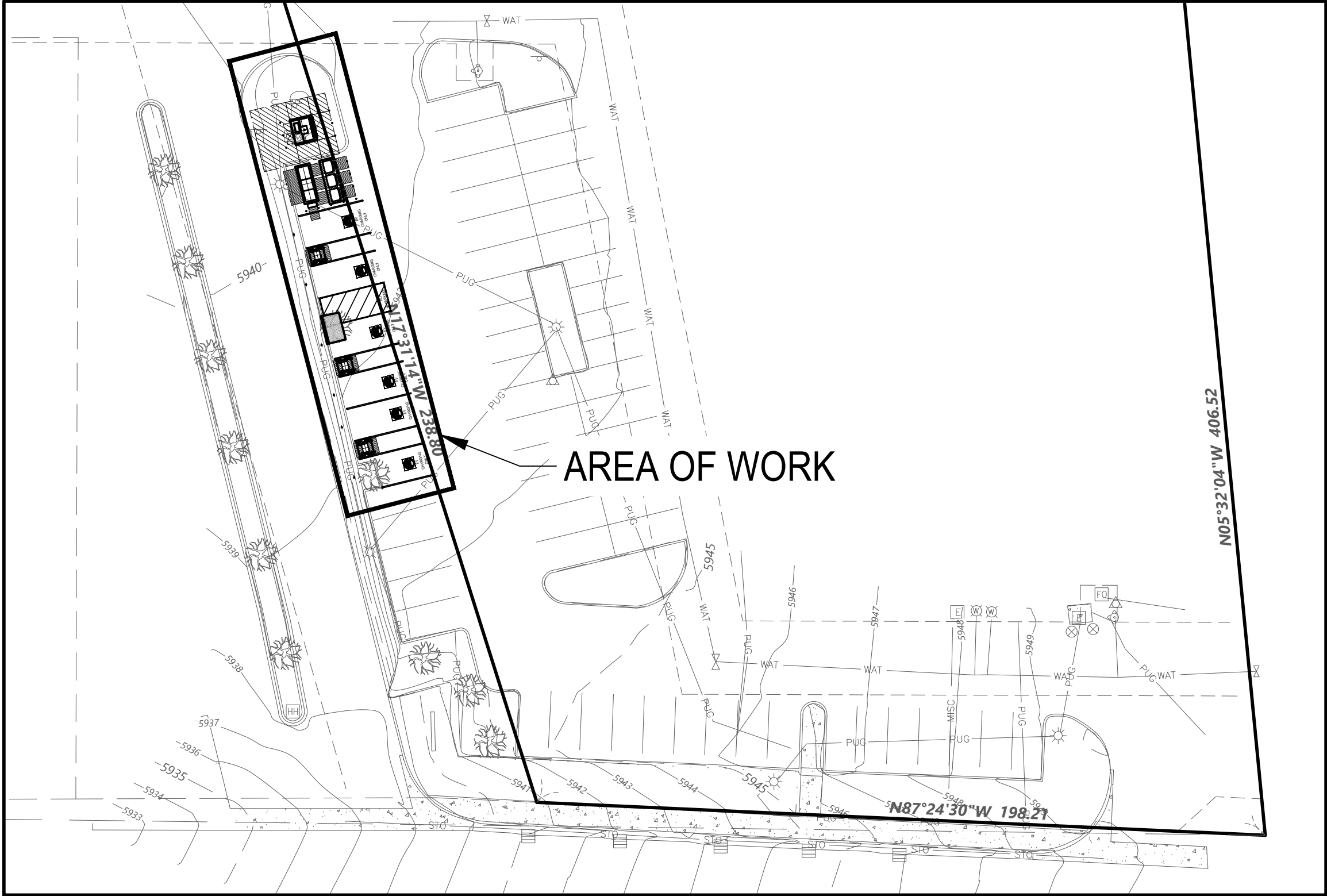
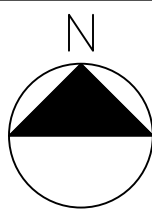


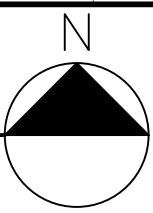
ELECTRIC VEHICLE CHARGING STATION  
GLENWOOD VILLAGE  
12611 MONTGOMERY BLVD. - EV  
ALBUQUERQUE, NM 87111



VICINITY MAP  
SCALE : NOT TO SCALE



SITE PLAN  
SCALE : 1" = 30'-0"



BLYMYER DRAWING LIST	
SHEET NUMBER	SHEET TITLE
CS-1	COVER SHEET
G-000	EXISTING SITE PLAN
G-001	OVERLAY SITE PLAN
G-100.0	PROPOSED SITE PLAN
G-101.0	GENERAL ARRANGEMENT
G-103.0	EQUIPMENT DETAILS
G-104.0	PARKING STALL DETAILS
E-1.0	ELECTRICAL NOTES SYMBOLS AND ABBREVIATIONS
E-2.0	ONE-LINE DIAGRAM
E-3.0	ELECTRICAL SITE PLAN
E-6.0	WARNING SIGNS
E-7.0	ELECTRICAL DETAILS
E-8.0	GROUNDING DETAILS
E-8.1	TRENCH DETAILS
E-10.0	EQUIPMENT SPECIFICATIONS
S-1.0	STRUCTURAL DETAILS
S-2.0	STRUCTURAL DETAILS

SCOPE OF WORK

- INSTALL (3) DELTA 350KW HP CHARGER AND CABINET
- INSTALL EVGO PROVIDED SIGNAGE
- INSTALL (1) UTILITY TRANSFORMER (AS REQUIRED BY UTILITY)
- INSTALL SWITCHGEAR ASSEMBLY AND ALL UNDERGROUND CONDUIT AND CONDUCTORS
- PERFORM ALL CIVIL WORK REQUIRED FOR CHARGER INSTALLATION AND ASSOCIATED ACCESSIBILITY PROVISIONS
- RESTRIPE PARKING STALLS

ENGINEERS OF RECORD

BENJAMIN LIU – BLYMYER ENGINEERS – NM LICENSE NO. 23164  
STANISLAV GORBIS – BLYMYER ENGINEERS – NM LICENSE NO. 24999

KEY PROJECT CONTACT INFORMATION

PROJECT MANAGERS:  
EVGO – MANDEEP GURAGAIN – (408) 666-8573  
BLYMYER ENGINEERS – STAS GORBIS – (510) 521-3773

APPLICABLE CODES

2015 NMRC	NEW MEXICO RESIDENTIAL CODE
2015 NMBC	NEW MEXICO BUILDING CODE
2015 NMFC	NEW MEXICO FIRE CODE
2015 NMMC	NEW MEXICO MECHANICAL CODE
2015 NMPC	NEW MEXICO PLUMBING CODE
2017 NMEC	NEW MEXICO ELECTRICAL CODE

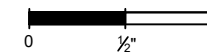
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL



GLENWOOD VILLAGE  
12611 MONTGOMERY BLVD NE  
ALBUQUERQUE, NM 87111

NO.	REVISION	DATE	INIT.
0	ISSUE FOR PERMIT	09/16/22	
1	CITY COMMENTS	01/04/23	

ORIGINAL SIZE 24"X36"  
SHEET SIZE ARCH "D"

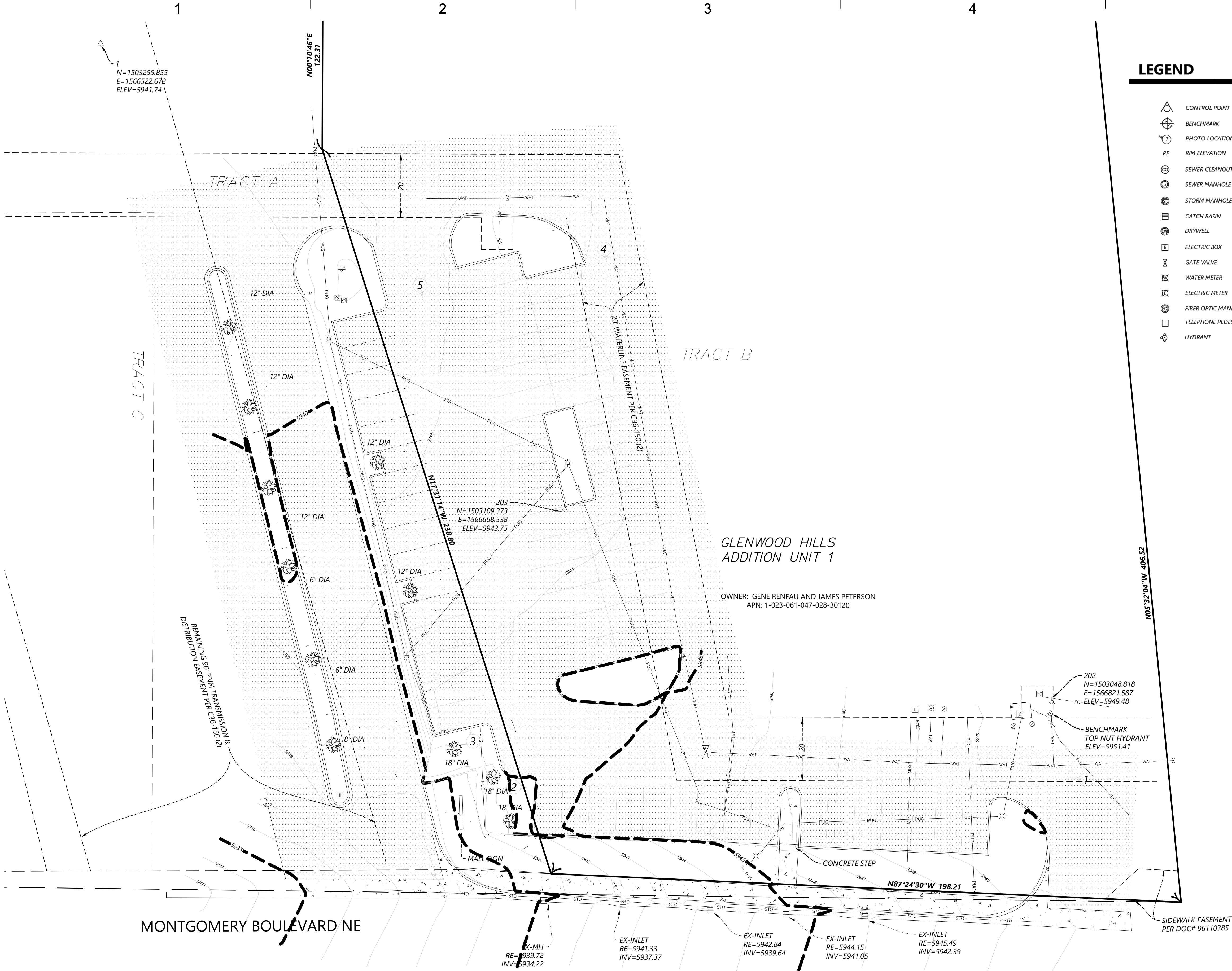


PROJECT #  
222001.107

SHEET TITLE  
COVER SHEET

SHEET NUMBER  
CS-1





LEGEND

- |                       |                        |                               |
|-----------------------|------------------------|-------------------------------|
| △ CONTROL POINT       | ⊗ NATURAL GAS METER    | — GAS — GAS LINE              |
| ⊕ BENCHMARK           | ⊗ STEEL/WOOD POST      | — FO — FIBER OPTIC            |
| ⑦ PHOTO LOCATION      | ⊗ SIGN                 | — SAN — SANITARY SEWER        |
| RE RIM ELEVATION      | ⊗ HANDICAPPED STALL    | — PUG — POWER UNDERGROUND     |
| ⊗ SEWER CLEANOUT      | ⊗ CONIFEROUS TREE      | — WAT — WATERMAIN             |
| ⊗ SEWER MANHOLE       | ⊗ DECIDUOUS TREE       | — MISC — UNKNOWN UTILITY LINE |
| ⊗ STORM MANHOLE       | ⊗ BUSH/SHRUB           | — X — FENCE LINE              |
| ⊗ CATCH BASIN         | — RECORD BOUNDARY LINE | — CURB & GUTTER               |
| ⊗ DRYWELL             | — RIGHT-OF-WAY LINE    | — CONCRETE SURFACE            |
| ⊗ ELECTRIC BOX        | — PARCEL LINE          | — BITUMINOUS SURFACE          |
| ⊗ GATE VALVE          | — EASEMENT LINE        | — STO — STORM SEWER           |
| ⊗ WATER METER         | — LOT LINE             | ⊗ FIBER OPTIC PEDESTAL        |
| ⊗ ELECTRIC METER      | — TREE LINE            | ⊗ GREASETRAP MANHOLE          |
| ⊗ FIBER OPTIC MANHOLE | ⊗ STREET LIGHT         | ⊗ NATURAL GAS VALVE           |
| ⊗ TELEPHONE PEDESTAL  | ⊗ GUY WIRE             | ⊗ FIRE DEPARTMENT CONNECTION  |
| ⊗ HYDRANT             | ⊗ POWER POLE           | ⊗ IRRIGATION VALVE            |



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12611 MONTGOMERY BLVD NE  
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ORIGINAL SIZE 24"x36"  
SHEET SIZE ARCH "D"

PROJECT #  
222001.107

SHEET TITLE  
EXISTING  
SITE PLAN

SHEET NUMBER  
G-000

1 EXISTING SITE PLAN  
SCALE: 1/16" = 1'-0"

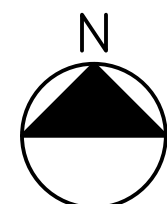
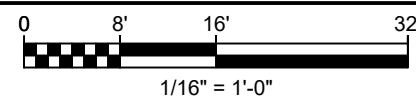






Google Earth

1 OVERLAY SITE PLAN  
SCALE: 1/16" = 1'-0"



GLENWOOD VILLAGE  
12611 MONTGOMERY BLVD NE  
ALBUQUERQUE, NM 87111

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1	CITY COMMENTS	01/04/23	

ORIGINAL SIZE 24"x36"  
SHEET SIZE ARCH "D"  
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PROJECT #  
222001.107

SHEET TITLE  
OVERLAY SITE PLAN

SHEET NUMBER  
G-001

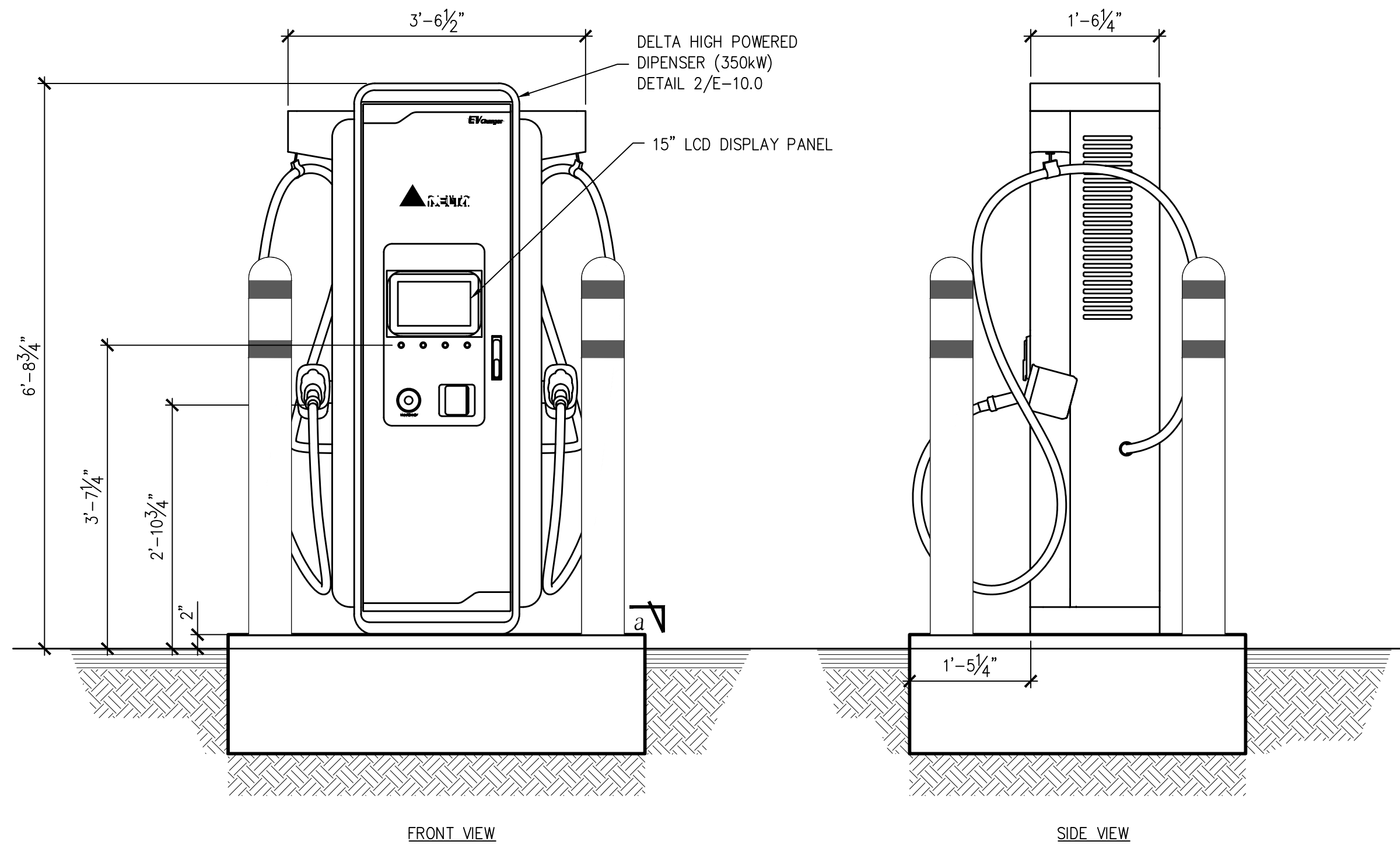




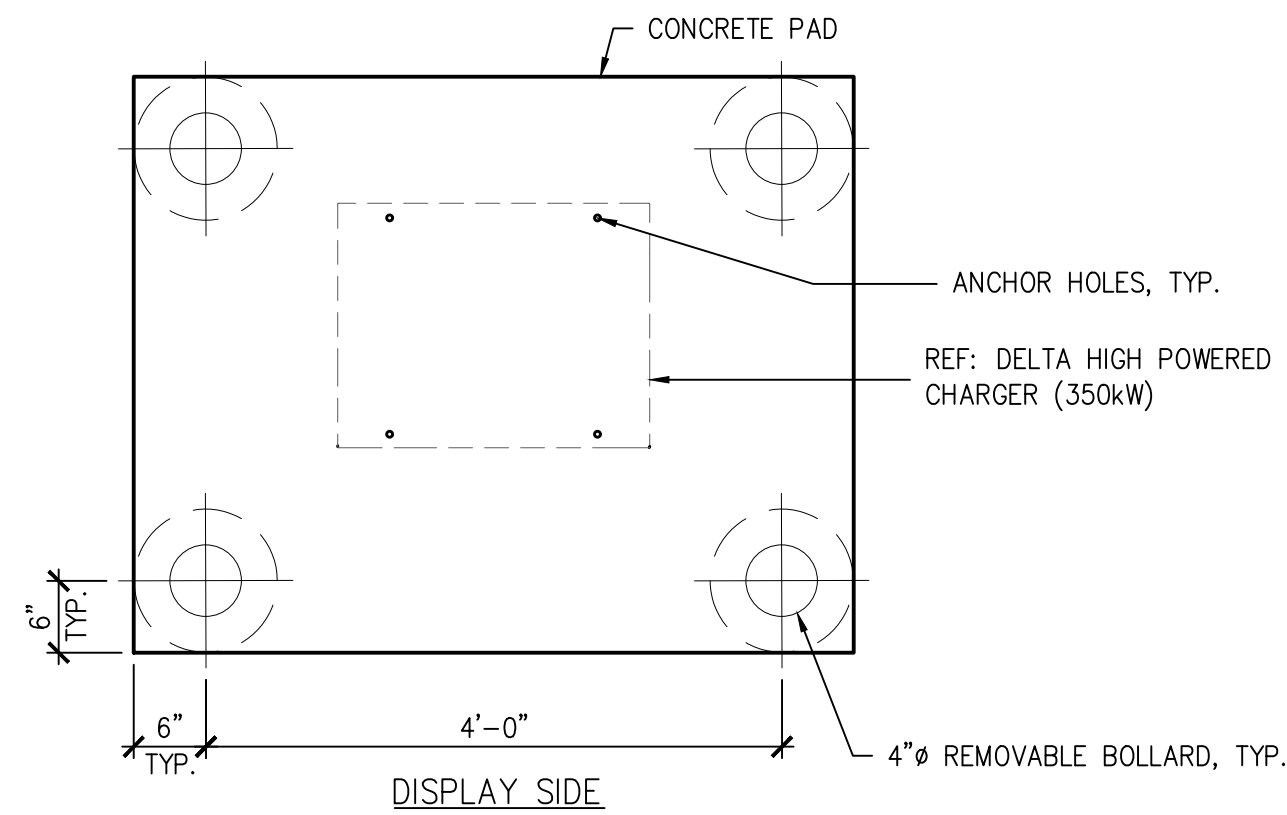








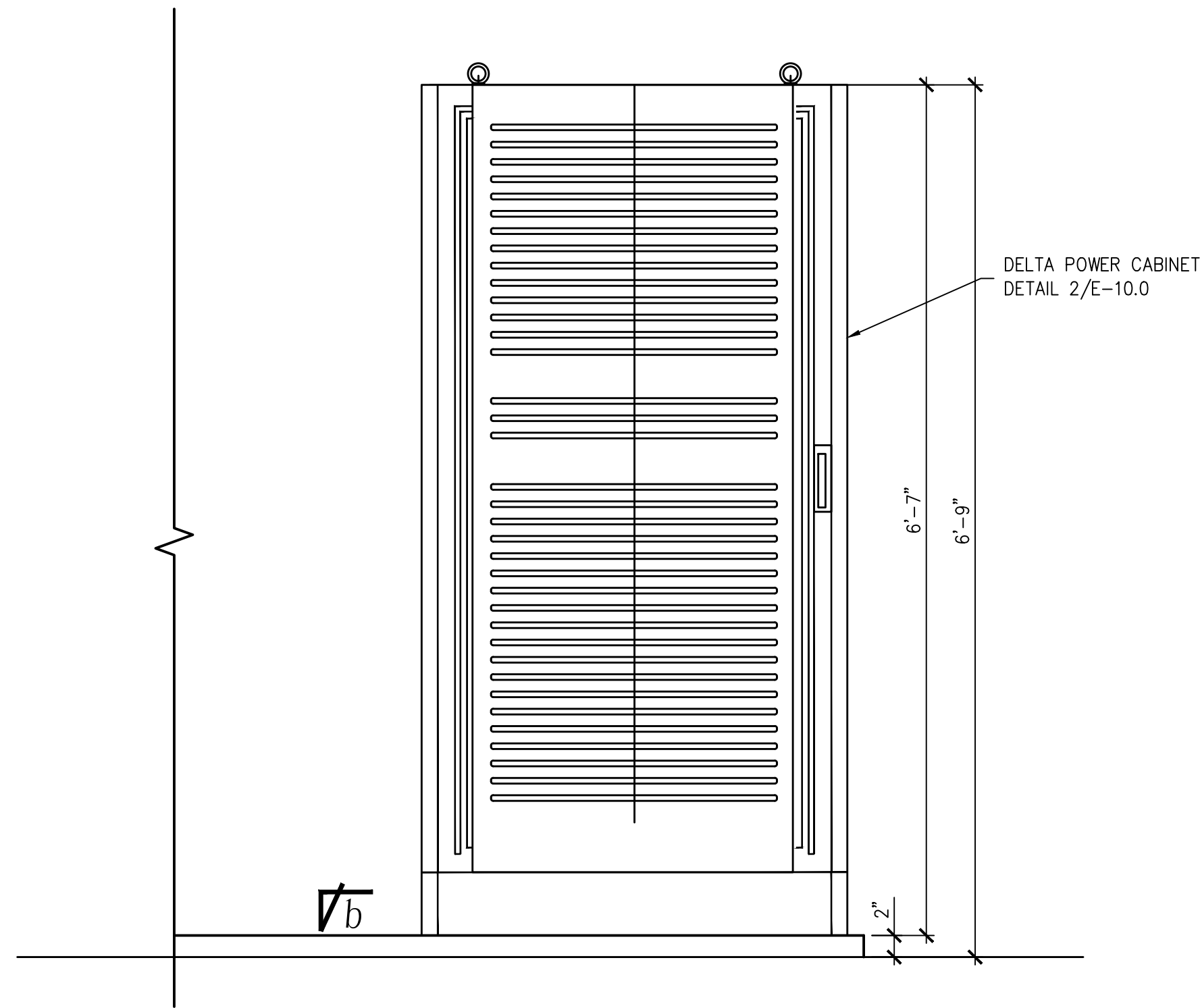
1 DELTA 350KW HP DISPENSER  
G-100 SCALE: 3/4" = 1'-0"



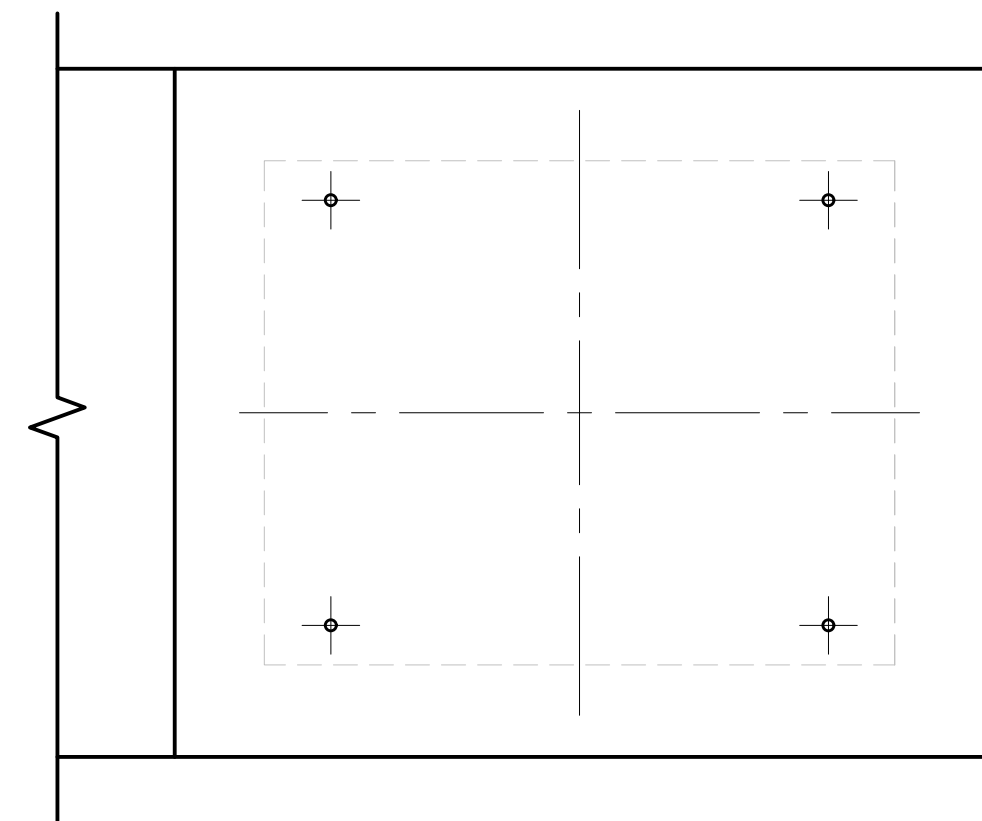
SECTION a  
SCALE: 1" = 1'-0"

NOTE:

1. REFER TO FINAL MANUFACTURER INSTALLATION INSTRUCTIONS BEFORE CONSTRUCTING. DIMENSIONS GIVEN FOR REFERENCE ONLY, TYP.



2 DELTA POWER CABINET DETAIL  
G-100 SCALE: 1" = 1'-0"



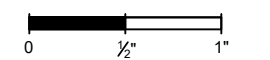
SECTION b  
SCALE: 1" = 1'-0"



GLENWOOD VILLAGE  
12611 MONTGOMERY BLVD NE  
ALBUQUERQUE, NM 87111

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ORIGINAL SIZE 24"x36"  
SHEET SIZE ARCH "D"

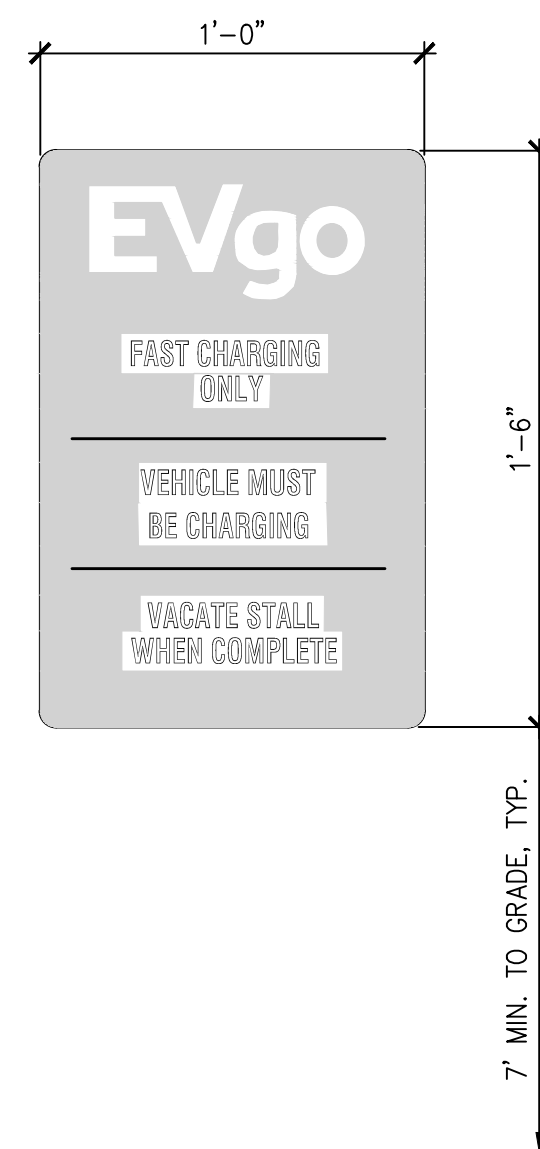


PROJECT #  
222001.107

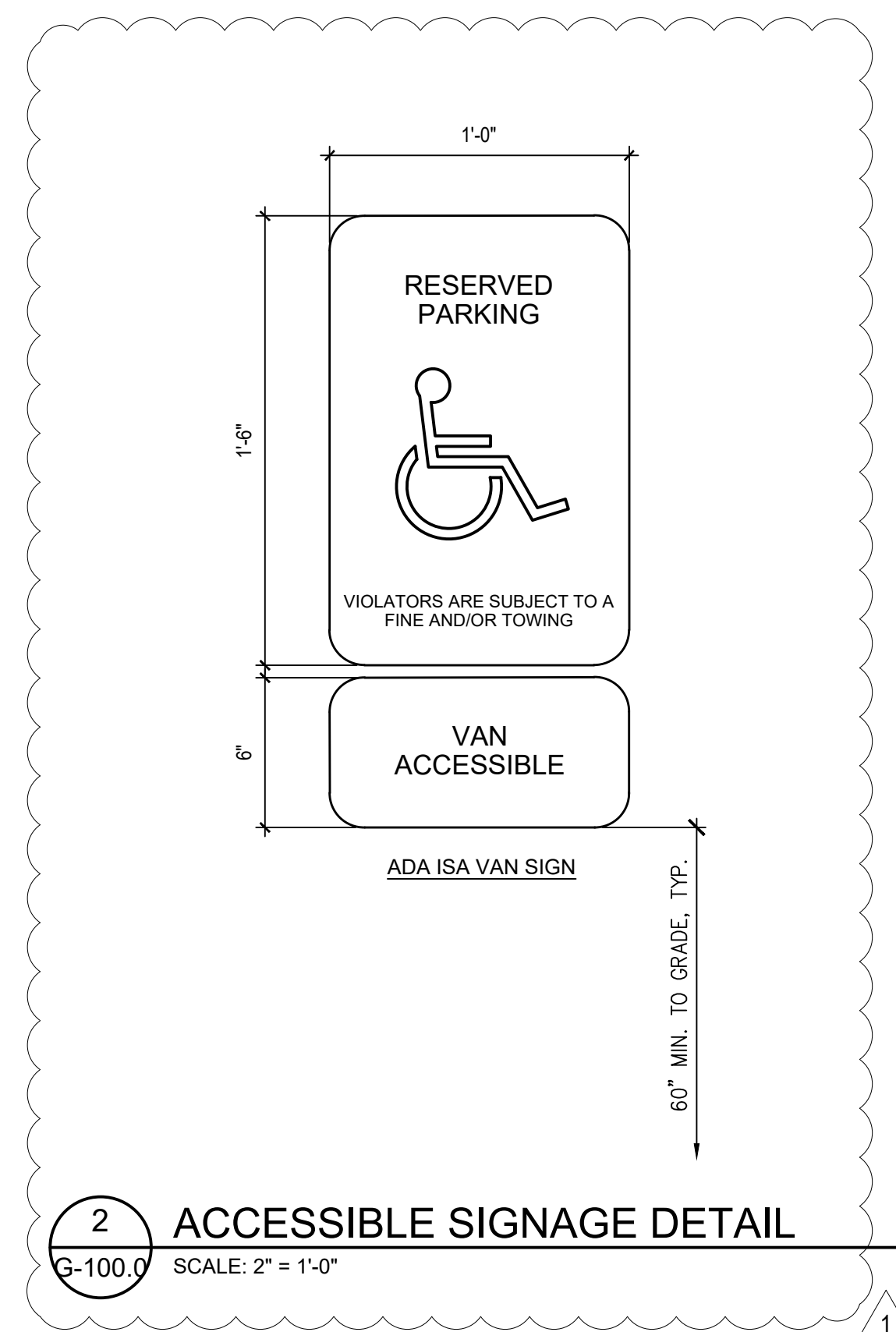
SHEET TITLE  
EQUIPMENT  
DETAILS

SHEET NUMBER  
G-103.0





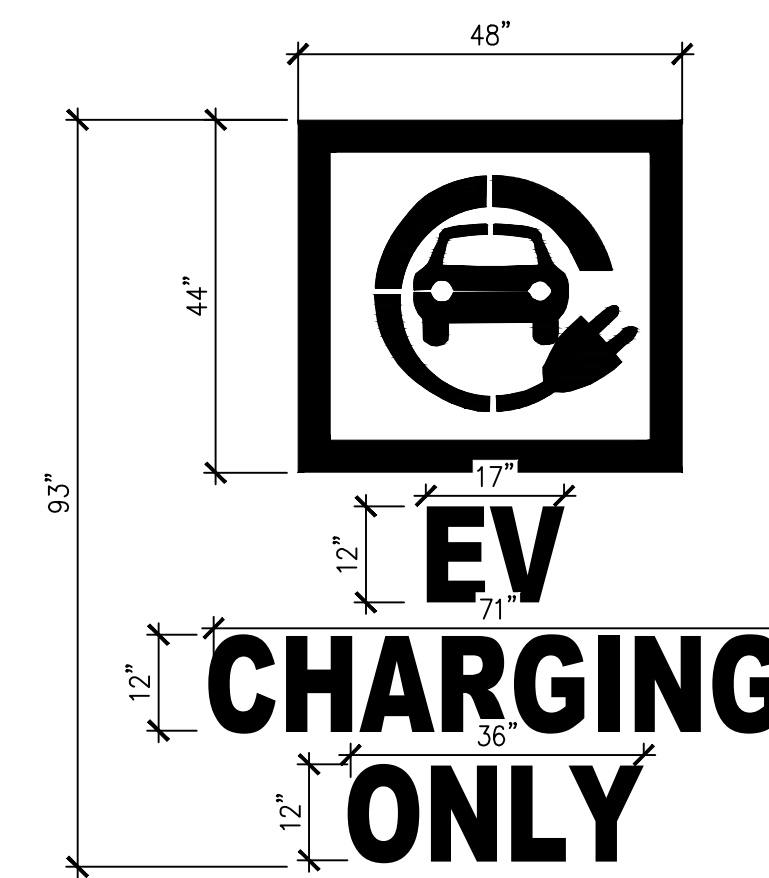
1 STANDARD STALL SIGNAGE DETAIL  
G-100.0 SCALE: 2" = 1'-0"



2 ACCESSIBLE SIGNAGE DETAIL  
G-100.0 SCALE: 2" = 1'-0"

SIGN NOTES:

1. STALL SIGNAGE SHALL BE REFLECTORIZED WITH A MINIMUM AREA OF 70 SQ. INCHES.
2. SIGN SHALL BE VISIBLE FROM THE EVCS IT SERVES.
3. SIGN SHALL BE PERMANENTLY POSTED EITHER IMMEDIATELY ADJACENT OR WITH IN THE PROJECTED VEHICLE SPACE.
4. SIGN SHALL BE LOCATED AT THE HEAD OF THE VEHICLE SPACE.
5. SIGN SHALL BE 7 FEET MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.
6. SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE 80 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.
7. SIGN MAY ALSO BE PERMANENTLY POSTED ON A WALL AT THE INTERIOR END OF THE VEHICLE SPACE.
8. EVgo SHALL SUPPLY THE VEHICLE STALL SIGNAGE.



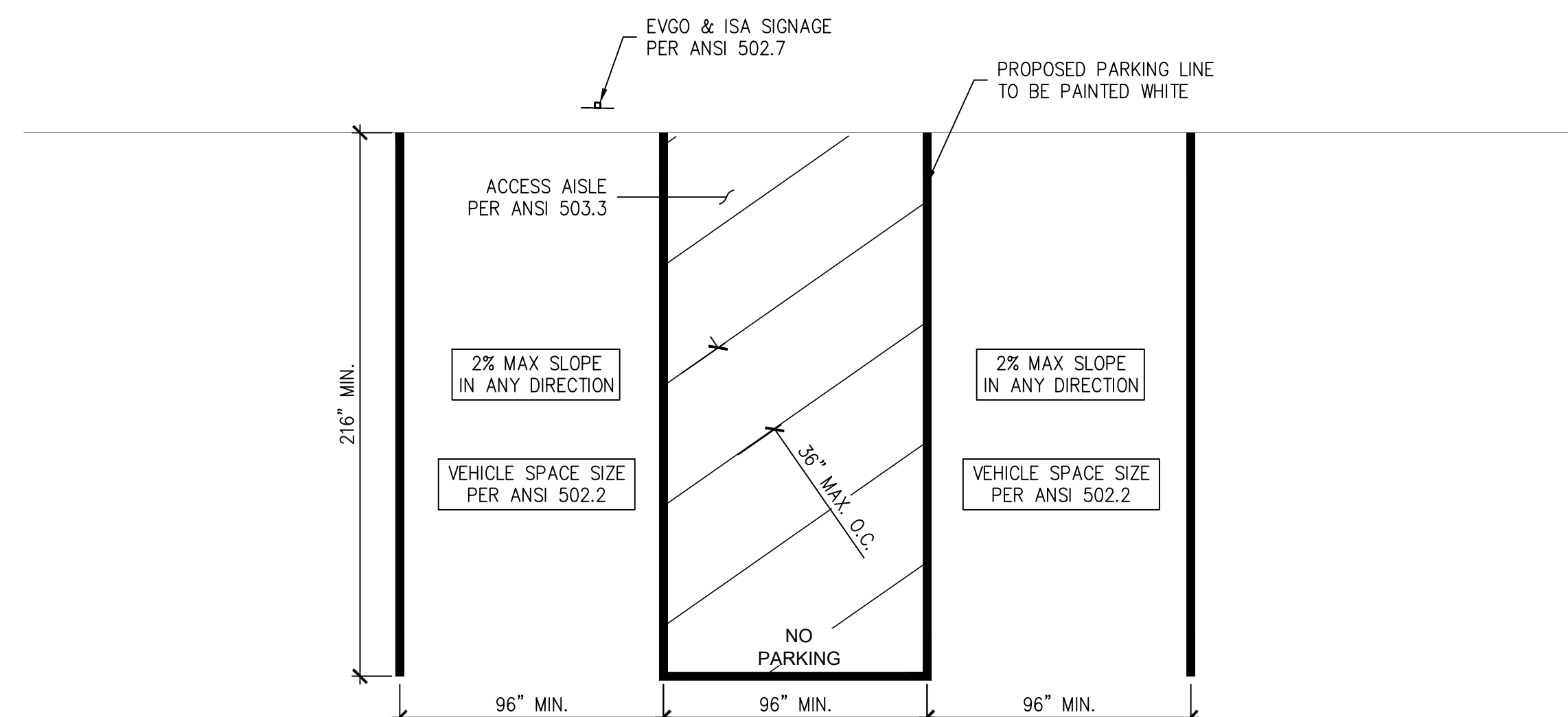
3 STANDARD STALL MARKINGS  
G-100.0 SCALE: 1/2" = 1'-0"

STALL MARKING NOTES:

1. USE ON ALL STANDARD AND VAN ACCESSIBLE STALLS WHERE APPLICABLE.
2. EVCS VEHICLE SPACES SHALL PROVIDE SURFACE MARKING STATION "EV CHARGING ONLY" IN LETTER 12" HIGH MINIMUM. THE CENTERLINE OF THE TEXT SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTER LINE OF THE VEHICLE SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH.
3. PROVIDE 4½" SPACING BETWEEN STENCILS
4. FONT SHALL BE STANDARD GOTHIC
5. COLOR: WHITE ON EXISTING SURFACE (NO FILL INSIDE STENCIL)



1. PROPOSED ADA STALLS AND WALKWAY SHALL BE MAX 2% SLOPE IN ALL DIRECTIONS.
2. REFER TO G-100 FOR PROPOSED SITE PLAN.
3. LOWER SIDE OF MARKING SHALL BE ALIGNED WITH THE END OF THE PARKING SPACE.



4 ACCESSIBLE PARKING DETAIL  
G-100.0 SCALE: 1/4" = 1'-0"



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ORIGINAL SIZE 24"X36"  
SHEET SIZE ARCH "D"

PROJECT #  
222001.107

## SHEET TITLE

### PARKING STALL DETAILS

















































































































































































































































































































SHEET NUMBER

G-104.0



1	2	3	4	5	6																								
GENERAL NOTES			ACCEPTANCE TESTING		QUALITY ASSURANCE NOTES																								
<div>1. AT ALL TIMES THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITION OF JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ENGINEERS JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTORS SAFETY MEASURES.</div> <div>2. THE CONTRACTOR SHALL MAKE AN EXAMINATION OF THE SITE AND COMPARE THE SITE WITH THE DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF AS TO CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL ASCERTAIN AND CHECK THE LOCATIONS OF ANY EXISTING STRUCTURES OR EQUIPMENT WHICH MAY AFFECT WORK THAT HAS TO BE PERFORMED. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE IN CONTRACTOR'S BEHALF FOR ANY EXPENSE TO WHICH THE CONTRACTOR MAY BE PUT DUE TO FAILURE OR NEGLECT BY CONTRACTOR TO MAKE SUCH EXAMINATION.</div> <div>3. ALL WORK SHALL BE COORDINATED WITH THE OWNER TO MAINTAIN CONTINUITY OF SERVICE AND MAXIMUM UTILIZATION OF THE OWNERS FACILITY.</div> <div>4. ELECTRICAL WORK SHALL CONFORM TO THE 2017 NEC AND CURRENT ISSUES OF ALL NFPA, IBC, IFC, ANSI, OSHA, ASTM, NEMA, AND OTHER NATIONALLY PUBLISHED CODES OR STANDARDS SHALL APPLY TO THIS WORK UNLESS LOCAL JURISDICTION SUPERSEDES. THE MOST STRINGENT CODES SHALL APPLY.</div> <div>5. NOTHING IN THE DRAWINGS OR SPECIFICATIONS IS INTENDED TO ALLOW A VIOLATION OF ELECTRICAL WORKING SPACE AROUND ELECTRICAL EQUIPMENT REQUIREMENT. ANY DEVIATION FROM THIS REQUIREMENT SHALL BE APPROVED IN WRITING, BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE ANY EQUIPMENT IN VIOLATION OF THE ELECTRICAL CODE AT HIS OWN COST.</div> <div>6. PROVIDE PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND FOR EACH ELECTRICAL EQUIPMENT. PROVIDE PERMANENT MEANS OF ATTACHMENT THAT WILL NOT VIOLATE NEMA RATING OR EQUIPMENT WARRANTY.</div> <div>7. REFER TO THE DRAWINGS FOR LOCATIONS AND SPACE REQUIREMENTS OF ELECTRICAL EQUIPMENT. COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WITH OTHER TRADES.</div> <div>8. POWER FEEDERS ARE SHOWN ON ELECTRICAL PLAN. REFER TO THE SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.</div> <div>9. CONTRACTOR SHALL SECURE AND PAY FOR ELECTRICAL TRADE SPECIFIC CONSTRUCTION PERMITS, LICENSES, GOVERNMENTAL AND INSPECTION FEES NECESSARY FOR THE EXECUTION OF THE WORK, UNLESS OTHERWISE DIRECTED.</div> <div>10. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ESTABLISHED TECHNIQUES AND ACCEPTED PRACTICES AND ALL LOCAL, STATE, AND NATIONAL CODES HAVING JURISDICTION.</div> <div>11. ELECTRICAL REQUIREMENTS SUCH AS CONDUIT ROUTING AND LOCATIONS OF ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, FLOOR OUTLETS, CONDUIT STUBS, ETC.) SHOWN ON THESE PLANS ARE DIAGRAMMATIC AND SUBJECT TO VERIFICATION BY ELECTRICAL CONTRACTOR FOR THE INTERFACING OF THE ELECTRICAL WORK WITH THE INSTALLATION. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO CLEAR THE OTHER FACILITIES EXCEPT AS SHOWN DIMENSIONED ON THE ARCHITECTURAL DRAWINGS OR AS APPROVED BY THE ARCHITECT.</div> <div>12. ELECTRICAL EQUIPMENT SHOWN OR SPECIFIED FOR THIS PROJECT HAS BEEN GENERALLY SELECTED BASED ON DIMENSIONS TO FIT THE SPACE. THE CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS AND/OR ANY INTERFERENCES PRIOR TO ORDERING THE CONTRACTOR OR OWNER PROVIDED EQUIPMENT.</div> <div>13. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE RATING OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING CONTRACTOR OR OWNER PROVIDED EQUIPMENT.</div> <div>14. CONTRACTOR SHALL REVIEW THE MECHANICAL AND PLUMBING DRAWINGS IF APPLY, AND CONNECT ELECTRICALLY OPERATED EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE THE LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS PRIOR TO ORDERING OF CONTRACTOR OR OWNER PROVIDED ELECTRICAL AND MECHANICAL EQUIPMENT.</div> <div>15. CONTRACTOR SHALL REVIEW THE SECTIONS OF EACH DIVISION OF THE SPECIFICATION (WHERE APPROPRIATE) AND PROVIDE CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT AS MAY BE SPECIFIED THEREIN.</div> <div>16. ALL CONDUIT ONLY (CO) NOTED SHALL HAVE PULL ROPES OR WIRES INSTALLED, TENSILE STRENGTH MINIMUM OF 200 FT/LBS.</div> <div>17. CONTRACTOR SHALL PROVIDE PULL BOX(S) AS REQUIRED TO COMPLY WITH NEC 352.26 &amp; NEC 356.26.</div> <div>18. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED NRTL, AND SHALL BEAR THEIR LABEL. ALL CONTROL PANELS SHALL BE SO LISTED AS AN ASSEMBLY.</div> <div>19. ELECTRICAL EQUIPMENT AND FEEDERS SHALL BE SUPPORTED AND/OR ANCHORED IN ACCORDANCE WITH IBC SEISMIC REQUIREMENTS. DO NOT SUPPORT CONDUITS FROM MECHANICAL DUCTS, PLUMBING, PIPING, OR EQUIPMENT OF ANY KIND.</div> <div>20. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, WORKMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR AND/OR OWNER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK AT ISSUE.</div> <div>21. THE CONTRACTOR SHALL CONSULT THE MECHANICAL, STRUCTURAL, AND OTHER DRAWINGS AND DOCUMENTATION RELATED TO THE PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.</div>			<div>22. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED.</div> <div>23. ANY WORK INSTALLED INCORRECTLY, OR BEFORE APPROVAL HAS BEEN OFFICIALLY GRANTED FOR THOSE ITEMS AT ISSUE, SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO CHARGE TO OWNER/ARCHITECT/CLIENT.</div> <div>24. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.</div> <div>25. CONTRACTOR SHALL COORDINATE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS WITH THE OWNER, EQUIPMENT SUPPLIERS, GENERAL CONTRACTOR AND OTHER BUILDING TRADES BEFORE PROCEEDING WITH ANY FURTHER RELATED WORK. INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND REQUIRED CODES. CONFLICTS AND INTERFERENCES SHALL BE RESOLVED IMMEDIATELY, BEFORE ANY INSTALLATION BEGINS.</div> <div>26. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTALS, SHOP DRAWINGS AND LOCAL INSPECTION.</div> <div>27. CONTRACTOR SHALL SUBMIT "FOR RECORD" MARKUP DRAWINGS WITHIN TWO (2) WEEKS AFTER DATE OF NOTIFICATION OF FINAL APPROVAL OF WORK-IN-PLACE. CONTRACTOR'S FINAL INVOICE WILL NOT BE PAID WITHOUT COMPLETE DOCUMENTATION.</div> <div>28. CONTRACTOR SHALL WARRANT ALL WORKS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF WORK-IN-PLACE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIALS AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER WITHIN WARRANTY PERIOD.</div> <div>29. THE CONTRACTOR SHALL PROVIDE ALL FUSES AND OVERLOAD HEATER ELEMENTS REQUIRED FOR THIS CONTRACT INSTALLATION INCLUDING ANY FUSES BLOWN DURING INITIAL TESTING.</div> <div>30. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND PAVING. IF DAMAGE OCCURS DURING CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.</div> <div>31. CONDUIT AND WIRE SCHEDULE FOR NEW EQUIPMENT ARE GENERALLY INDICATIVE. CONTRACTOR SHALL REFER TO MANUFACTURER AND SUPPLIER OF EQUIPMENT FOR DETAILED WIRING DIAGRAM AND VERIFY THE EXACT ROUTING AND CONDUCTOR SIZE.</div> <div>32. THE CONTRACTOR SHALL REFER TO MANUFACTURER AND SUPPLIER OF ELECTRICAL CONTROL EQUIPMENT FOR EXACT WIRING INTERCONNECTION.</div> <div>33. ALL CONDUCTORS SHALL BE ALUMINUM OR COPPER STRANDED, AND HAVE INSULATION TEMPERATURE RATING 90C, UNLESS OTHERWISE NOTED.</div> <div>34. IDENTIFICATION OF GROUNDED CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC 200.6. IDENTIFICATION OF EQUIPMENT GROUNDING CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC 250.19. IDENTIFICATION OF UNGROUNDED CONDUCTORS IS REQUIRED FOR MULTIWIRE CIRCUITS AND SHALL BE AS FOLLOWS:</div> <table><tr><th>SYSTEM</th><th>480Y/277V</th><th>208Y/120V</th><th>120/240V 1-PHASE</th></tr><tr><td>PHASE A</td><td>BROWN</td><td>BLACK</td><td>BLACK (LINE 1)</td></tr><tr><td>PHASE B</td><td>ORANGE</td><td>RED</td><td>RED (LINE 2)</td></tr><tr><td>PHASE C</td><td>YELLOW</td><td>BLUE</td><td></td></tr></table> <div>35. USE WIRE IDENTIFICATION COLOR CODE PER SPECIFICATIONS BELOW.</div> <table><tr><th>COLOR</th><th>DESCRIPTION</th></tr><tr><td>LT. BLUE</td><td>INTRINSICALLY SAFE CIRCUITS</td></tr><tr><td>GREEN</td><td>EQUIPMENT GROUNDING CONDUCTOR</td></tr><tr><td>YELLOW</td><td>CONTROL CIRCUITS SUPPLIED FROM EXTERNAL POWER SOURCE, INTERLOCKS</td></tr></table> <div>36. MEDIUM VOLTAGE CABLE MARKINGS SHALL UTILIZE COLORED CONDUCTOR TAPE FOR ALL PHASES: FOLLOW THE EXISTING COLOR SCHEME IF ONE EXISTS, OTHERWISE PROVIDE YELLOW COLORED, SELF-ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS THICK BY 1 INCH WIDE. 1 STRIPE FOR THE A PHASE CONDUCTOR, 2 STRIPES FOR THE B PHASE CONDUCTOR, 3 STRIPES FOR THE C PHASE CONDUCTOR. TAPE SHALL BE LOCATED AT ALL TERMINATIONS, SPLICES AND PULL BOXES.</div> <div>37. THE ELECTRICAL DESIGN AND EQUIPMENT RATINGS ARE BASED ON ELECTRICAL SYSTEM STUDIES WHICH MAY INCLUDE:<div><div>A. LOAD FLOW</div><div>B. SHORT CIRCUIT</div><div>C. ARC FLASH</div><div>D. RELAY COORDINATION</div><div>E. GROUNDING</div><div>F. CABLE SIZING</div></div></div> <div>39. OUTDOOR SITE LIGHTING SHALL COMPLY WITH DARK SKY GUIDELINES.</div>	SYSTEM	480Y/277V	208Y/120V	120/240V 1-PHASE	PHASE A	BROWN	BLACK	BLACK (LINE 1)	PHASE B	ORANGE	RED	RED (LINE 2)	PHASE C	YELLOW	BLUE		COLOR	DESCRIPTION	LT. BLUE	INTRINSICALLY SAFE CIRCUITS	GREEN	EQUIPMENT GROUNDING CONDUCTOR	YELLOW	CONTROL CIRCUITS SUPPLIED FROM EXTERNAL POWER SOURCE, INTERLOCKS	<div>THE FOLLOWING TESTS SHALL BE PERFORMED PRIOR TO ENERGIZATION OF THE SYSTEM WHEN APPLICABLE: TEST RESULTS SHALL BE MADE AVAILABLE TO THE ENGINEER OF RECORD OR BUILDING OFFICIAL UPON REQUEST.</div> <div>1. GROUND-FAULT PROTECTION EQUIPMENT<div>1.1. VERIFY PICKUP AND TIME DELAY SETTINGS ARE IN ACCORDANCE WITH SETTINGS PROVIDED BY THE ENGINEER OR EQUIPMENT MANUFACTURER.</div></div> <div>2. ELECTRICAL TESTS SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS AND OTHER EQUIPMENT RATED 1000 AMPERES OR MORE, OR OVER 1000 VOLTS.<div>2.1. RELAY PICKUP CURRENT BY CURRENT INJECTION AT THE SENSOR AND OPERATION OF THE CIRCUIT INTERRUPTING DEVICE</div><div>2.2. TEST RELAY TIMING.</div><div>2.3. TEST PRIMARY CONTROL VOLTAGE AT NOT MORE THAN 57 PERCENT OF ITS RATED VOLTAGE</div><div>2.4. VERIFICATION OF CONTINUITY OF EQUIPMENT GROUNDING SYSTEM.</div><div>2.5. INSULATION RESISTANCE TEST ON EACH BUS AND PROTECTIVE DEVICE, PHASE-TO-PHASE AND PHASE-TO-GROUND.</div><div>2.6. DIELECTRIC VOLTAGE-WITHSTAND TEST ON EACH BUS AND PROTECTIVE DEVICE, PHASE-TO-PHASE AND PHASE-TO-GROUND.</div><div>2.7. CONTROL POWER TRANSFORMER, CONTROL POWER CIRCUITS AND POTENTIAL CIRCUITS.</div><div>2.8. CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.</div></div> <div>3. ELECTRICAL TESTS ON TRANSFORMERS RATED 100 KVA OR MORE SINGLE PHASE AND 300 KVA OR MORE THREE PHASE.<div>3.1. INSULATION RESISTANCE TEST ON EACH WINDING. TEST WINDING-TO-WINDING AND WINDINGS-TO-GROUND.</div><div>3.2. TURNS-RATIO TEST FOR EACH WINDING AT ALL TAP SETTINGS.</div><div>3.3. CONTROL POWER TRANSFORMER, CONTROL POWER CIRCUITS AND POTENTIAL CIRCUITS.</div><div>3.4. CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.</div></div> <div>4. CONDUCTORS THAT SUPPLY EQUIPMENT RATED AT 1000 AMPERES OR MORE, OR OVER 1000 VOLTS<div>4.1. INSULATION RESISTANCE TEST ON EACH CONDUCTOR, PHASE-TO-PHASE AND PHASE-TO-GROUND.</div><div>4.2. DC HIGH-POTENTIAL TEST ON EACH CONDUCTOR, PHASE-TO-PHASE AND PHASE-TO-GROUND.</div></div> <div>5. ELECTRICAL TESTS ON EMERGENCY AND STANDBY POWER SYSTEMS: SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, TRANSFER EQUIPMENT, POWER SOURCE, CONDUCTORS, FIRE PUMPS, EXHAUST AND VENTILATION FANS.<div>5.1. CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.</div><div>5.2. PHASE ROTATION TEST</div><div>5.3. INSULATION RESISTANCE TEST ON FEEDER CONDUCTORS AND EQUIPMENT, PHASE-TO-PHASE AND PHASE-TO-GROUND</div><div>5.4. AUTOMATIC LOAD TRANSFER TEST. TEST NORMAL AND EMERGENCY POWER, OR NORMAL AND STANDBY POWER, OR BOTH. SIMULATE LOSS OF EMERGENCY AND NORMAL POWER OR STANDBY AND POWER, OR BOTH. SIMULATE ALL FORMS OF SINGLE PHASE CONDITIONS.</div><div>5.5. CONDUCT OPERATIONAL TEST ON SYSTEM UNDER LOAD CONDITIONS.</div></div>	<div>1. FOLLOW AND ADHERE TO ALL MANUFACTURERS INSTALLATION INSTRUCTIONS.</div> <div>2. ALL ELECTRICAL TERMINATIONS SHALL BE TORQUED TO MANUFACTURERS' SPECIFICATIONS. WHERE THEY ARE NOT SPECIFIED, REFER TO UL STANDARDS 486A AND 486B. FINAL TORQUE TEST DOCUMENTATION SHALL BE PROVIDED TO OWNER OR HIS REPRESENTATIVE, WITH ONE OR THE OTHER IN WITNESS AT RANDOM TIMES.</div> <div>3. LINE AND LOAD CONDUCTORS SHALL BE BRACED AND SUPPORTED (LASHED, HELD FIRMLY IN PLACE) IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NECA/IBEW APPROVED INSTALLATION PRACTICES.</div>
SYSTEM	480Y/277V	208Y/120V	120/240V 1-PHASE																										
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			EQUIPMENT SPECIFICATIONS																										
			THE FOLLOWING EQUIPMENT SPECIFICATION AND SUBMITTALS SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION: <div><ul style="list-style-type: none"><li>ELECTRICAL EQUIPMENT INCLUDING: SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, AND SAFETY SWITCHES.</li><li>CONDUCTORS AND CABLES INCLUDING: MEDIUM VOLTAGE CABLES, LOW VOLTAGE CABLES, PV DC WIRING, AND CONTROL CABLES</li><li>PROTECTIVE DEVICES INCLUDING: CIRCUIT BREAKERS, FUSES, RELAYS, AND PROTECTION SETTINGS.</li><li>ELECTRIC VEHICLE CHARGING STATIONS</li><li>LIGHTING (IF APPLICABLE)</li></ul></div>																										
			MOUNTING HEIGHTS																										
			MOUNTING HEIGHTS SHALL BE TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED.																										
			RECEPTACLES	18"	VOLUME CONTROLS 48"																								
			RECEPTACLE WIREWAYS	43"	THERMOSTATS 48"																								
			SWITCHES	48"	TELE/COMMUNICATION OUTLET 18"																								
			MOTOR STARTERS, TO TOP 72"		PANELBOARDS, TO TOP 72"																								
			DISCONNECTS, TO TOP 72"		CABINETS, TO TOP 72"																								
			JUNCTION BOXES	15" MIN.	FIRE ALARM PULL STATIONS 48"																								

|  |  |  | ABBREVIATIONS |  |  |
|  |  |  | A, AMPS AB ANCHOR BOLT A/C AIR CONDITIONER AC ALTERNATING CURRENT AF AMPERE FRAME AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPTING CURRENT AL ALUMINUM AS AMPERE SWITCH AT AMPERES TRIP ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BC BARE COPPER BLDG BUILDING BMS BUILDING MANAGEMENT SYSTEM C CONDUIT CB CIRCUIT BREAKER CC CENTER TO CENTER CCS1/CCS2 COMBINED CHARGING SYSTEM TYPE 1/2 CHAdEMO CHARGE de MOve (EV CHARGING STANDARD) CKT CIRCUIT CL CENTER LINE CLG CEILING CLR CLEAR CO CONDUIT ONLY WITH PULL ROPE CONC CONCRETE CU COPPER DB DIRECT BURIAL DC DIRECT CURRENT DIA DIAMETER DN DOWN DP DISTRIBUTION PANEL DWG DRAWING EM EMERGENCY EGC EQUIPMENT GROUNDING CONDUCTOR EMT ELECTRICAL METALLIC TUBING EPO EMERGENCY POWER OFF EQ EQUAL EQU EQUIPMENT EV ELECTRIC VEHICLE (E) EXISTING FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPERES | (F) FUTURE GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND GALV GALVANIZED GRS GALVANIZED RIGID STEEL GFCI GROUND FAULT CIRCUIT INTERRUPTER HH HANDHOLE HOA HAND-OFF-AUTO HP HORSEPOWER HV HIGH VOLTAGE HVAC HEATING, VENTILATION, AIR CONDITIONING HZ HERTZ IMC INTERMEDIATE METAL CONDUIT ISC INTERRUPTING SHORT CIRCUIT IG ISOLATED GROUND INST INSTANTANEOUS JB JUNCTION BOX KAIC KILO AMPERES INTERRUPTION CAPACITY KMIL KILO CIRCULAR MILS KV KILOVOLTS KW KILOVOLT-AMPERES KW KILO WATTS KWH KILO WATT-HOURS LCP LIGHTING CONTROL PANEL LTG LIGHTING MAX MAXIMUM MCC MOTOR CONTROL CENTER MCB MAIN CIRCUIT BREAKER MCP MOTOR CIRCUIT PROTECTOR MFR MANUFACTURER MH MANHOLE MIN MINIMUM MISC MISCELLANEOUS MLO MAIN LUGS ONLY MTD MOUNTED MSB MAIN SWITCHBOARD MSG MAIN SWITCHGEAR MV MEDIUM VOLTAGE MVA MEGA VOLT AMPERES NEW NEW N NEUTRAL NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NIC NOT IN CONTRACT NL NIGHT LIGHT | NO NORMALLY OPEN NRTL NATIONAL RECOGNIZED TESTING LABORATORY NTS NOT TO SCALE OFCI OWNER FURNISHED CONTRACTOR INSTALLED OVERHEAD OH PH, Ø PB PHASE PBU PUSHBUTTON PDU POWER DISTRIBUTION UNIT PNL PANEL POCC POINT OF COMMON CONNECTION PV PHOTOVOLTAIC PVC POLYVINYL CHLORIDE (R) EXISTING TO BE REMOVED (RE) NEW LOCATION OF RELOCATED DEVEICE (RL) EXISTING TO BE RELOCATED SCA SHORT CIRCUIT AVAILABLE SEC SECONDARY SPECS SPECIFICATIONS STD STANDARD STD SHIELDED TWISTED PAIR SWBD SWITCHBOARD SYM SYMMETRICAL TBD TO BE DETERMINED TD TIME DELAY TEL TELEPHONE TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION TYP TYPICAL UG UNDERGROUND UL UNDERWRITERS LABORATORIES UON UNLESS OTHERWISE NOTED UPB UNDERGROUND PULLBOX UTP UNSHIELDED TWISTED PAIR V VOLTS VA VOLT-AMPERES VFD VARIABLE FREQUENCY DRIVE VFI VACUUM FUSED INTERRUPTER VPP VAPORPROOF W WATTS, WIRE WH WATER HEATER WP WEATHERPROOF | WT WATERTIGHT XFMR TRANSFORMER XLPE CROSS-LINKED POLYETHYLENE XP EXPLOSION PROOF |

SYMBOLS									
	OPEN		FUSED SWITCH		HOOK SWITCH		TRANSFER SWITCH		FUSED CUT OUT
	CLOSED		FUSED CONTACTOR		LV BREAKER		DRAW OUT LV BREAKER		FUSED CONTACTOR W/ SENSOR
	FUSE W/ TERMINALS		FUSE NO TERMINALS		RESISTOR W/ TERMINALS		RESISTOR NO TERMINALS		DRAW OUT HV CIRCUIT BREAKER
	GROUND		ARRESTER W/ GROUND		CAPACITOR		HV CIRCUIT BREAKER		AUTO TRANSFORMER
	TWO WINDING TRANSFORMER		THREE WINDING TRANSFORMER		GENERATOR		MOTOR		PT W/O POLARITIES
	TWO WINDING TRANSFORMER W/ TERTIARY WINDING		PT W/ POLARITIES		PT W/O POLARITIES		PT W/ POLARITIES		TESTING BLADE
	PT W/O POLARITIES		PT W/ TERMINALS		PT W/O POLARITIES		PT W/ TERMINALS		SHORTING BLADE
	PT W/ TERMINALS		DUAL SECONDARY		SOLENOID W/O POLARITY		SOLENOID W/ POLARITY		TEST LINK
	SOLENOID W/O POLARITY		SOLENOID NO TERMINAL W POLARITY		SOLENOID NO TERMINAL W/O POLARITY		SOLENOID W/O POLARITY		CONTACT OPEN
	SOLENOID W/ POLARITY		SOLENOID NO TERMINAL W POLARITY		SOLENOID NO TERMINAL W/O POLARITY		CONTACT CLOSED		RELAY CONTACT OPEN
	SOLENOID NO TERMINAL W POLARITY		SOLENOID NO TERMINAL W/O POLARITY		RELAY CONTACT CLOSE		RELAY COIL		UTILITY CONNECTION
	RELAY CONTACT OPEN		RELAY COIL		HEATER		OVERLOAD RELAY		PORTABLE CABLE
	HEATER		OVERLOAD RELAY		CONNECTOR		BATTERY		DC TO AC INVERTER
	OVERLOAD RELAY		CONNECTOR		BATTERY		DC TO AC INVERTER		UTILITY CONNECTION
	CONNECTOR		BATTERY		DC TO AC INVERTER		UTILITY CONNECTION		PORTABLE CABLE
	BATTERY		DC TO AC INVERTER		UTILITY CONNECTION		PORTABLE CABLE		UTILITY CONNECTION
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ELECTRIC VEHICLE SERVICE DESIGN LOAD:  
1122 KVA AT POI (3 $\phi$ )  
3 DELTA 350KW POWER CABINET (369 KVA EACH)  
DISPENSER AUX LOADS (15 KVA)

* CONDUITS ARE MINIMUM REQUIRED SIZES; INSTALLED SIZES MAY BE LARGER, IF USED														
TO	FROM	CIRCUIT ID	VOLTAGE	CURRENT	OCB	WIRE MATERIAL	WIRE INSULATION	PARALLEL SETS OF WIRES	PHASE CONDUCTORS PER SET	NEUTRAL CONDUCTOR PER SET	EGC PER SET	*MIN PVC PER SET (IN)	DISTANCE (FT)	% VOLTAGE DROP
PC-1	SWBD-EV	PC-1	480	443	600	Cu	THWN-2	2	(3) 300 kcmil	N/A	#1 AWG (Cu)	3	14	0.05%
PC-2	SWBD-EV	PC-2	480	443	600	Cu	THWN-2	2	(3) 300 kcmil	N/A	#1 AWG (Cu)	3	12	0.04%
PC-3	SWBD-EV	PC-3	480	443	600	Cu	THWN-2	2	(3) 300 kcmil	N/A	#1 AWG (Cu)	3	10	0.04%
AUX-1	SWBD-EV	AUX-1	480	18	30	Cu	THWN-2	1	(3) #8 AWG	#8 AWG	#8 AWG (Cu)	1	14	0.07%
EV-1, EV-2, EV-3	SWBD-EV	AUX-D	120	16	20	Cu	THWN-2	1	(1) #8 AWG	#8 AWG	#8 AWG (Cu)	1	75	1.56%

* CONDUITS ARE MINIMUM REQUIRED SIZES; INSTALLED SIZES MAY BE LARGER, IF USED														
TO	FROM	CIRCUIT ID	VOLTAGE	CURRENT	OCB	WIRE MATERIAL	WIRE INSULATION	PARALLEL SETS OF WIRES	PHASE CONDUCTORS PER SET	ADDITIONAL CONDUCTOR PER SET	EGC PER SET	*MIN P/Vc PER SET (IN)	DISTANCE (FT)	% VOLTAGE DROP
EV-1	PC-1	EV-1	1000	540	By MFR	Cu	XHHW-2	4	(2) 350 kcmil	N/A	#1 AWG (Cu)	3	25	0.03%
EV-2	PC-2	EV-2	1000	540	By MFR	Cu	XHHW-2	4	(2) 350 kcmil	N/A	#1 AWG (Cu)	3	55	0.06%
EV-3	PC-3	EV-3	1000	540	By MFR	Cu	XHHW-2	4	(2) 350 kcmil	N/A	#1 AWG (Cu)	3	80	0.08%

CIRCUIT ID	CABLE	MIN PVC (IN)	DISTANCE (FT)
COM	(1) FIBER OPTIC CABLE PER DELTA SPECIFICATIONS	1	80

1. ALL DC CONDUCTORS SHALL BE COPPER WITH 1000V XHHW-2 INSULATION, UNLESS OTHERWISE NOTED
2. CONDUIT SIZES SHOWN ARE MINIMUM REQUIRED, INSTALLED SIZES MAY BE LARGER.



1. ALL EQUIPMENT SHALL BE INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. ALL MATERIAL SHALL BE IN NEW CONDITION AND APPROVED BY THE ENGINEER.
2. ALL EQUIPMENT SHALL BE NRTL LISTED.
3. ALL EQUIPMENT WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES AND INSTALLATION INSTRUCTIONS.
4. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE ARC FLASH WARNING LABELS WITH APPLICABLE INCIDENT ENERGY LEVELS, WORKING DISTANCES, AND REQUIRED PPE IN ACCORDANCE WITH NFPA 70E.
5. EXPOSED NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH OESC 250.134 AND 250.136(A).
6. COORDINATE DATE, TIME, AND LENGTH OF ANY REQUIRED FACILITY SHUTDOWNS WITH OWNER PRIOR TO CONSTRUCTION.
7. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
8. CONDUITS UNDERGROUND SHALL BE PVC, CONDUITS ABOVE GROUND SHALL BE EMT, AND CONDUITS SUBJECT TO DAMAGE SHALL BE RGS.
9. ALL EQUIPMENT SHALL BE FURNISHED WITH TERMINALS RATED FOR 75°C OR GREATER, LUGS SHALL BE DUAL-RATED FOR COPPER/ALUMINUM CONDUCTORS. ALL ALUMINUM CONDUCTOR TERMINATIONS MUST BE COATED WITH ANTI-OXIDATION COMPOUND IMMEDIATELY AFTER STRIPPING INSULATION.
10. CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY, AND SHALL BE COORDINATED TO AVOID INTERFERENCES WITH OTHER UTILITIES/UNDERGROUND INSTALLATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD CHECKING AND MAKING ALL NECESSARY OFFSETS AS REQUIRED.
11. NO PART OF THIS DRAWING OR SPECIFICATIONS IS INTENDED TO ALLOW A VIOLATION OF PHYSICAL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT AS REQUIRED PER OESC 110.26.
12. INSTALL PULL-BOXES AS REQUIRED PER OESC 314.28. ALL BOXES SHALL BE TRAFFIC RATED WHERE SUBJECT TO VEHICULAR TRAFFIC. MIN ONE (1) FEET OF CONCRETE IS REQUIRED AROUND ALL BOXES. PROVIDE ADDITIONAL PULLBOXES AS REQUIRED TO COMPLY WITH OESC 352.26 & 356.26
13. CONTRACTOR SHALL REFER TO G-SERIES SHEETS FOR EXISTING AND PROPOSED LANDSCAPING.
14. CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED.

- 1 UTILITY COMPLIANT METERING COMPARTMENT, METER AND CTs BY UTILITY.
- 2 AFC (AVAILABLE FAULT CURRENT) IS PENDING FROM UTILITY.
- 3 LONG, SHORT, INSTANTANEOUS, GROUND FAULT EQUIPPED BREAKER PER OESC 230.95.
- 4 REFER TO COORDINATION STUDY FOR OCPD TRIP SETTINGS.
- 5 MAIN BREAKER IS REQUIRED TO INCLUDE MAINTENANCE MODE FOR ARC ENERGY REDUCTION IN ACCORDANCE WITH OESC 240.87
- 6 ALL OVERCURRENT PROTECTION DEVICES WILL HAVE THE SAME FAULT CURRENT RATING AS THE RATING OF PANEL, DISCONNECT OR SWITCHGEAR LOCATED WITHIN.
- 7 DELTA 350KW POWER CABINET  
369 KVA  
INPUT: 443A 480VAC, 3P/3W  
OUTPUT: 150-950VDC, 540A MAX  
NEMA 3R
- 8 DELTA 350KW DISPENSER  
1000VDC MAX  
540A MAX CCS1, 200A MAX CHADEMO  
NEMA 3R
- 9 UTILITY DESIGN TO SUPERSEDE WIRE AND CONDUIT REQUIREMENT IF DIFFERENT.

EQUIPMENT PROVIDED BY EVGO:  
DELTA POWER CABINETS  
DELTA DISPENSERS  
SWITCHBOARD

EQUIPMENT PROVIDED BY CONTRACTOR:  
CABLES  
CABLE TERMINATIONS  
CONDUITS AND FITTINGS  
UTILITY UNDERGROUND STRUCTURES AND PADS  
ADDITIONAL EQUIPMENT AS SPECIFIED ON THESE PLANS



GLENWOOD VILLAGE  
12611 MONTGOMERY BLVD NE  
ALBUQUERQUE, NM 87111

Nº.	REVISION		DATE	INIT.
0	ISSUE FOR PERMIT		09/16/22	
1	CITY COMMENTS		01/04/23	

ORIGINAL SIZE 24"X36"  
SHEET SIZE ARCH "D"

PROJECT #  
222001.107

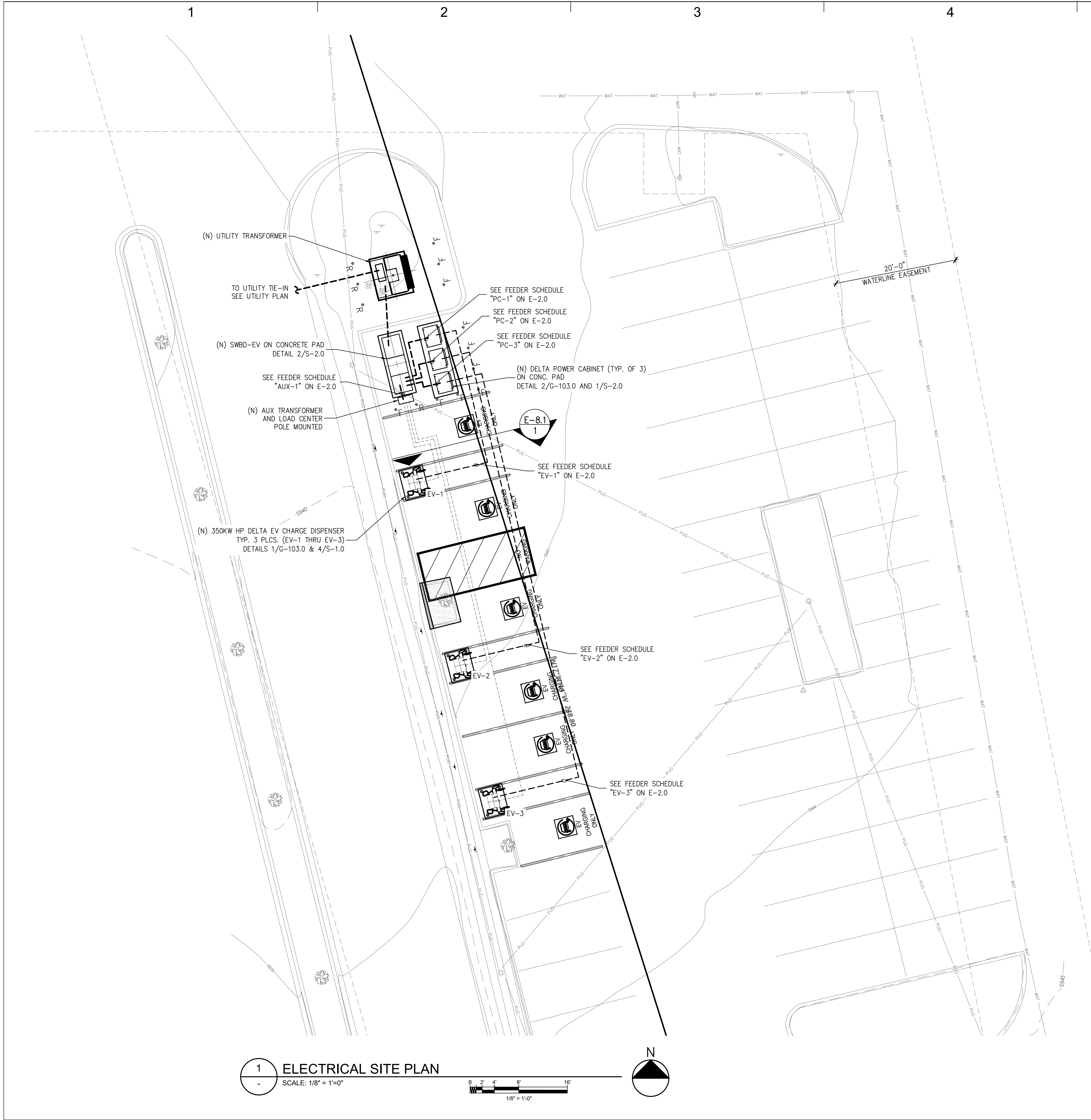
SHEET TITLE

ONE-LINE DIAGRAM

SHEET NUMBER

E-2.0







1

2

3

4

5

6

NOTES:

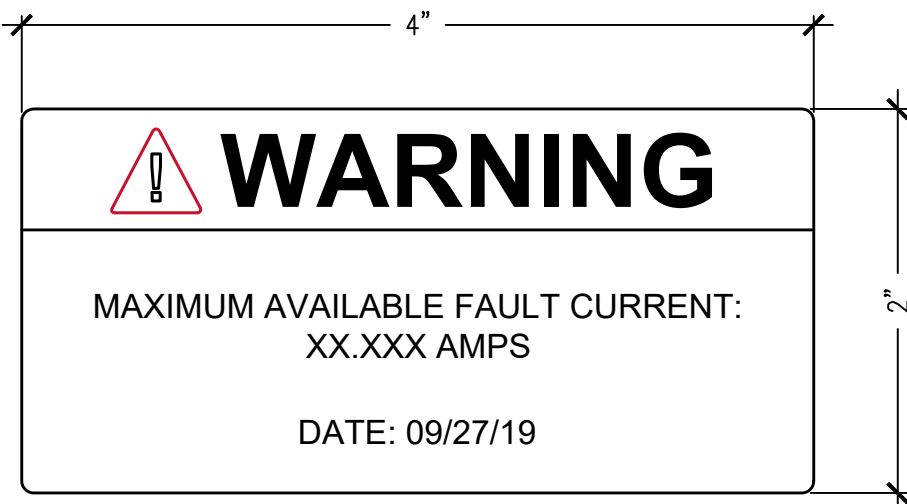
1. PLACE LABEL IN A VISIBLE LOCATION: SWITCHGEAR (METER COMPARTMENT)



1 METER LABEL-1  
SCALE: NTS

NOTES:

1. PLACE LABEL IN A VISIBLE LOCATION: SWITCHGEAR.  
2. RED BACKGROUND, WHITE LETTERING  
3. TEXT: MIN. 3/8" AND 1/8" HEIGHT, ALL CAPITAL LETTERS ARIAL OR SIMILAR FONT, NON-BOLD  
4. MATERIAL NOTE: ENGRAVED ON OUTDOOR-RATED PLASTIC LAMINATE WITH ADHESIVE BACKING SUITABLE FOR THE ENVIRONMENT.  
5. APPLICABLE NEC SECTIONS: NEC 110.9



4 MAXIMUM FAULT CURRENT LABEL  
SCALE: NTS

NOTES:

1. PLACE LABEL IN A VISIBLE LOCATION: SWITCHGEAR  
2. RED BACKGROUND, WHITE LETTERING  
3. TEXT: MIN. 3/8" AND 1/8" HEIGHT, ALL CAPITAL LETTERS ARIAL OR SIMILAR FONT, NON-BOLD  
4. MATERIAL NOTE: ENGRAVED ON OUTDOOR-RATED PLASTIC LAMINATE WITH ADHESIVE BACKING SUITABLE FOR THE ENVIRONMENT.  
5. APPLICABLE NEC SECTIONS: NEC 110.22



2 MAIN CIRCUIT BREAKER LABEL  
SCALE: NTS

## DANGER!

### ARC FLASH AND SHOCK HAZARD PRESENT APPROPRIATE PPE REQUIRED

ARC FLASH BOUNDARY	[xx] ft	MIN. PPE REQUIREMENTS
INCIDENT ENERGY	[x.xx] cal/cm²	[ DESCRIPTION ]
WORKING DISTANCE	[xx] in	[ DESCRIPTION ]
SHOCK HAZARD EXPOSURE	[xxx] VAC	[ DESCRIPTION ]
INSULATING GLOVE CLASS	[xx]	[ DESCRIPTION ]
SHOCK HAZARD WHEN COVERS REMOVED		
LIMITED APPROACH BOUNDARY	[x.x] ft	
RESTRICTED APPROACH BOUNDARY	[xx] ft	
EQUIPMENT: [EQUIPMENT ID]		
CHANGES IN EQUIPMENT SETTINGS OR SYSTEM CONFIGURATION WILL INVALIDATE THE CALCULATED VALUES AND PPE REQUIREMENTS WHICH MAY RESULT IN A HAZARDOUS CONDITION.		
DATE: [mm-dd-yyyy]		

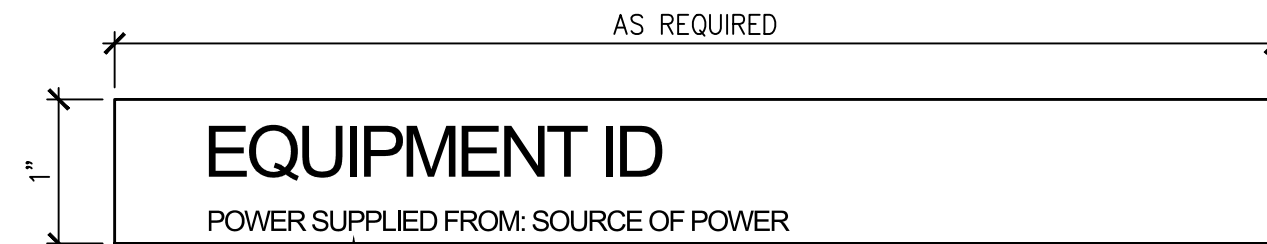
NOTES:

1. \*TYPICAL LABEL SHOWN, ARC FLASH LABELS TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INCLUDING, SWITCHGEAR, PANELBOARDS, AND CHARGING CABINETS.  
2. 4"x4" LABEL MAY BE USED AS AN ALTERNATE  
3. "WARNING" HEADING FOR INCIDENT ENERGY < 40 CAL/CM²  
"DANGER" HEADING FOR INCIDENT ENERGY > 40 CAL/CM²  
VALUES IN BRACKETS WILL BE UPDATED ACCORDING TOT HE RESULTS OF THE ARC FLASH HAZARD ANALYSIS.  
4. PLACE LABEL ON EQUIPMENT DESIGNATED IN THE ARC FLASH HAZARD ANALYSIS.  
5. LABELS SHALL BE PROVIDED IN PDF FORMAT TO CONTRACTOR  
6. MATERIAL: WEATHER AND UV RESISTANT VINYL WITH DURABLE ADHESIVE SUITABLE FOR THE ENVIRONMENT.  
7. APPLICABLE NEC SECTIONS: NEC 110.16

5 ARC FLASH HAZARD LABEL  
SCALE: NTS

NOTES:

1. PLACE LABEL ON FRONT OF EQUIPMENT IN VISIBLE LOCATION: EV CHARGER CABINETS, SWITCHBOARDS, PANELS, AND METERING ENCLOSURES.  
2. BLACK BACKGROUND, WHITE LETTERING  
3. TEXT: MIN. 1/2" HEIGHT, ALL CAPITAL LETTERS ARIAL OR SIMILAR FONT, NON-BOLD  
4. MATERIAL NOTE: ENGRAVED ON OUTDOOR-RATED PLASTIC LAMINATE WITH ADHESIVE BACKING SUITABLE FOR THE ENVIRONMENT.  
5. APPLICABLE NEC SECTIONS: NEC 408.4(B)



ALL SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE NAME OF THE EQUIPMENT AND SOURCE OF SUPPLY.

REFER TO SINGLE LINE DIAGRAM FOR IDENTIFICATION OF ALL EQUIPMENT AND ASSOCIATED SOURCE OF SUPPLY.

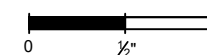
3 EQUIPMENT IDENTIFICATION LABEL  
SCALE: NTS



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PROJECT #  
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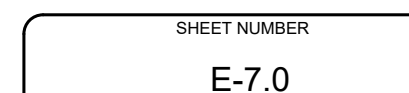
SHEET TITLE  
WARNING SIGNS

SHEET NUMBER  
E-6.0

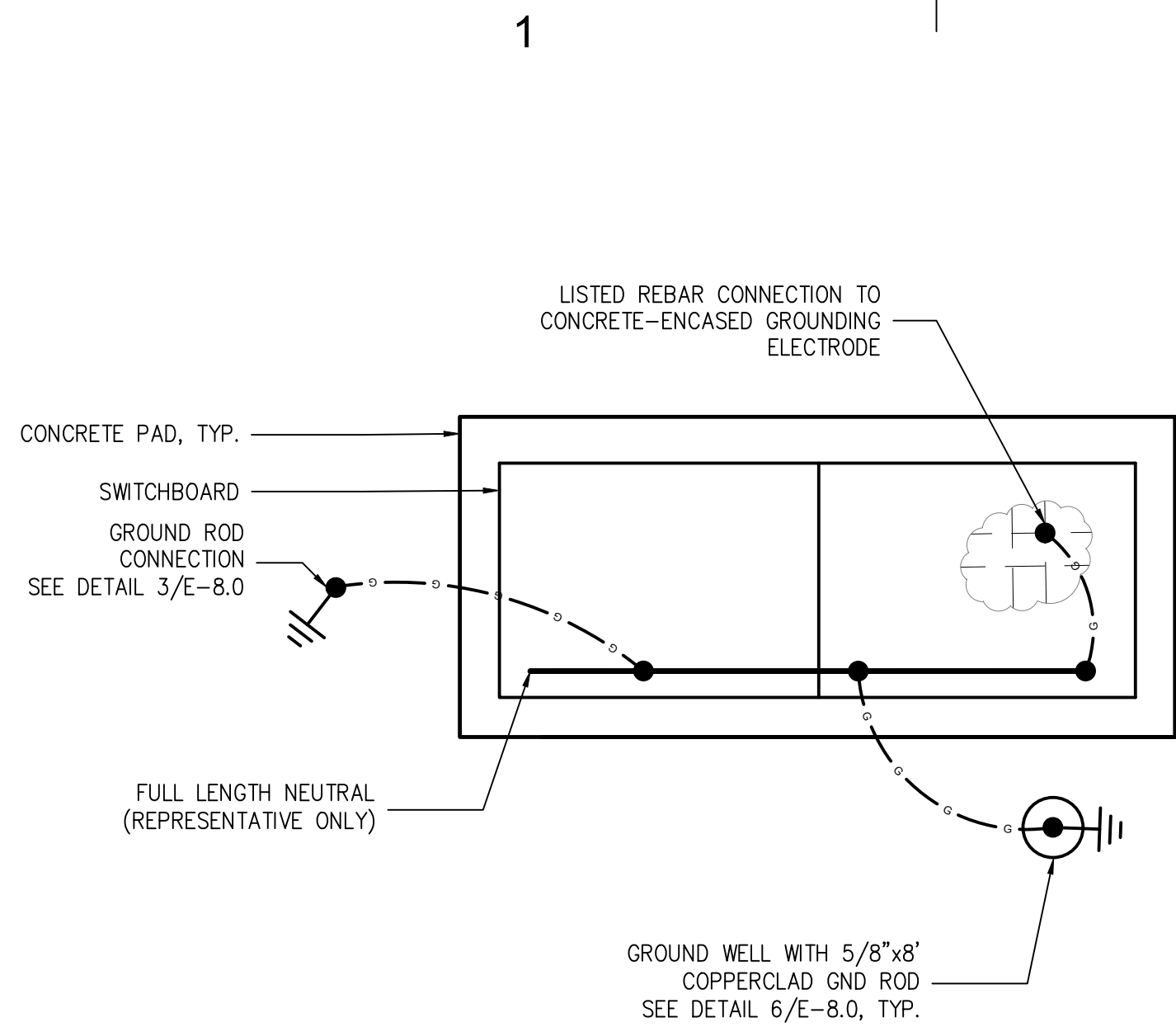




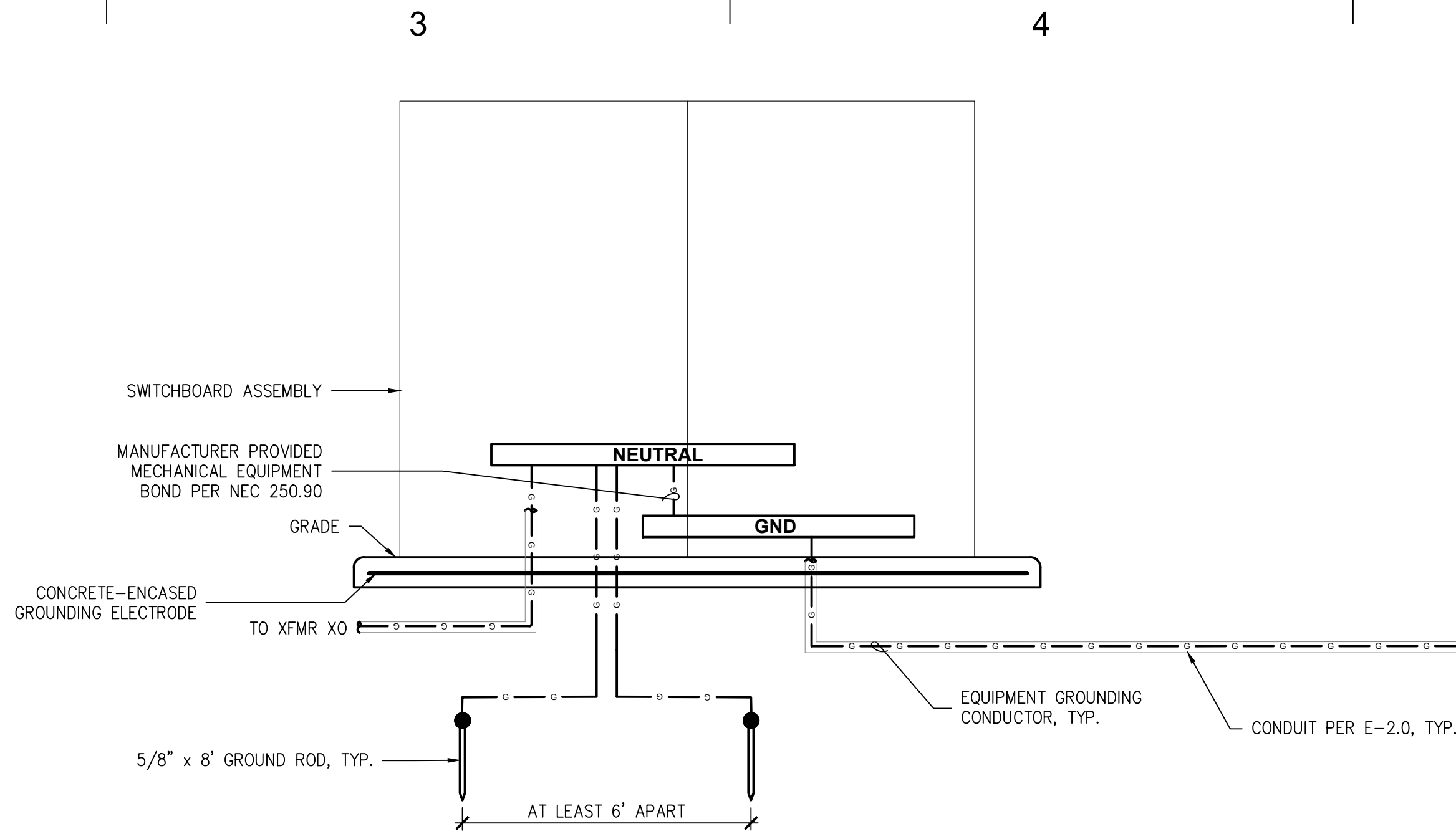
## 2 PANEL SCHEDULE



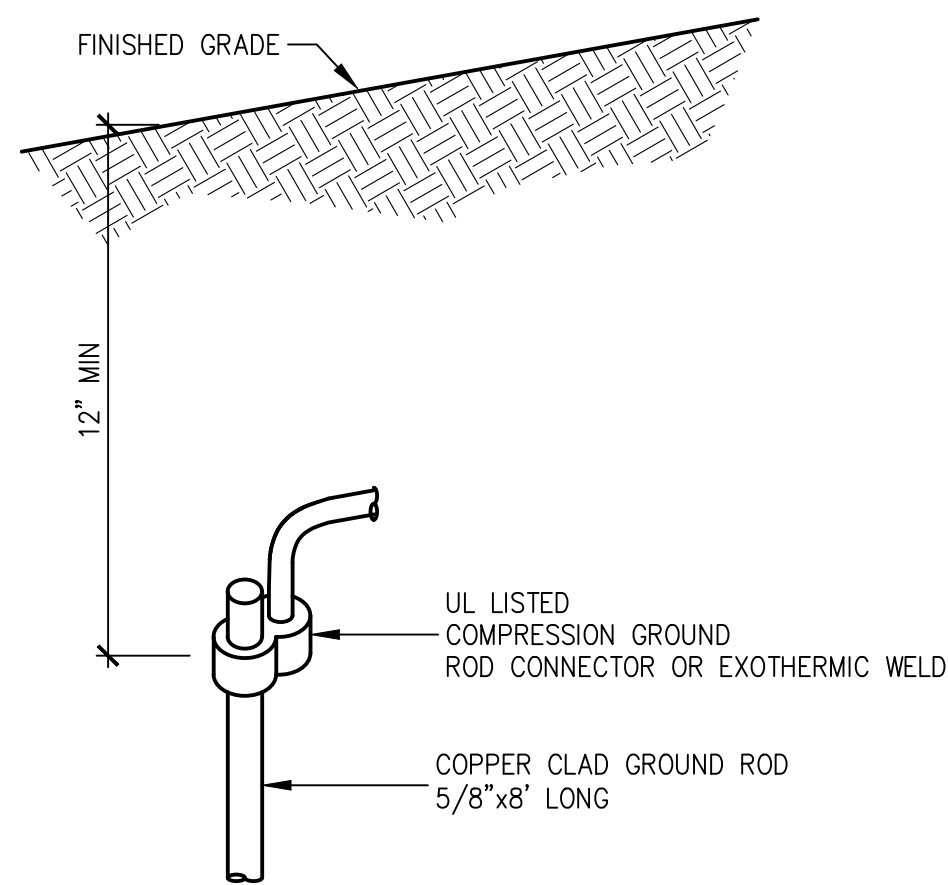




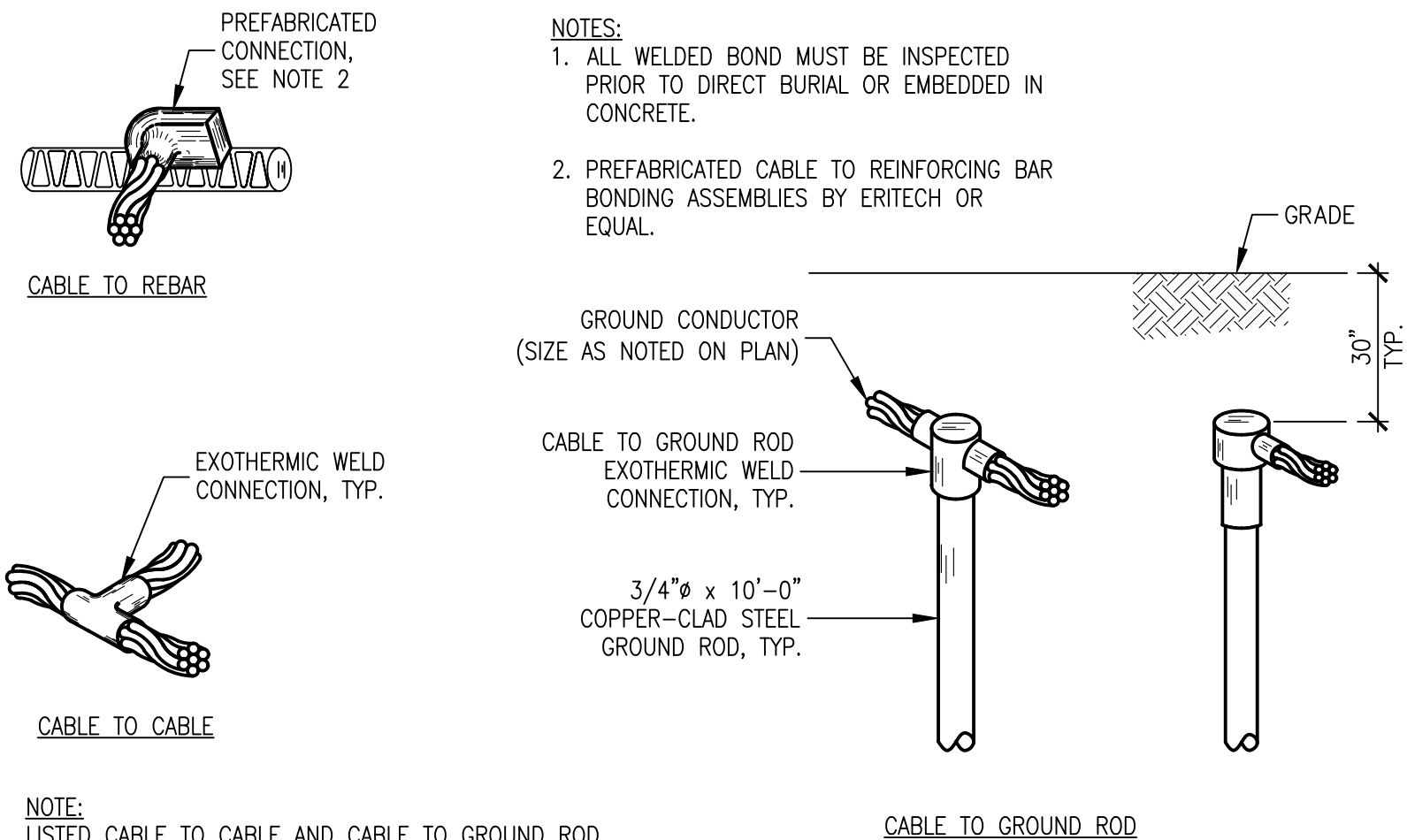
1 SWITCHBOARD GROUNDING PLAN  
SCALE: NTS



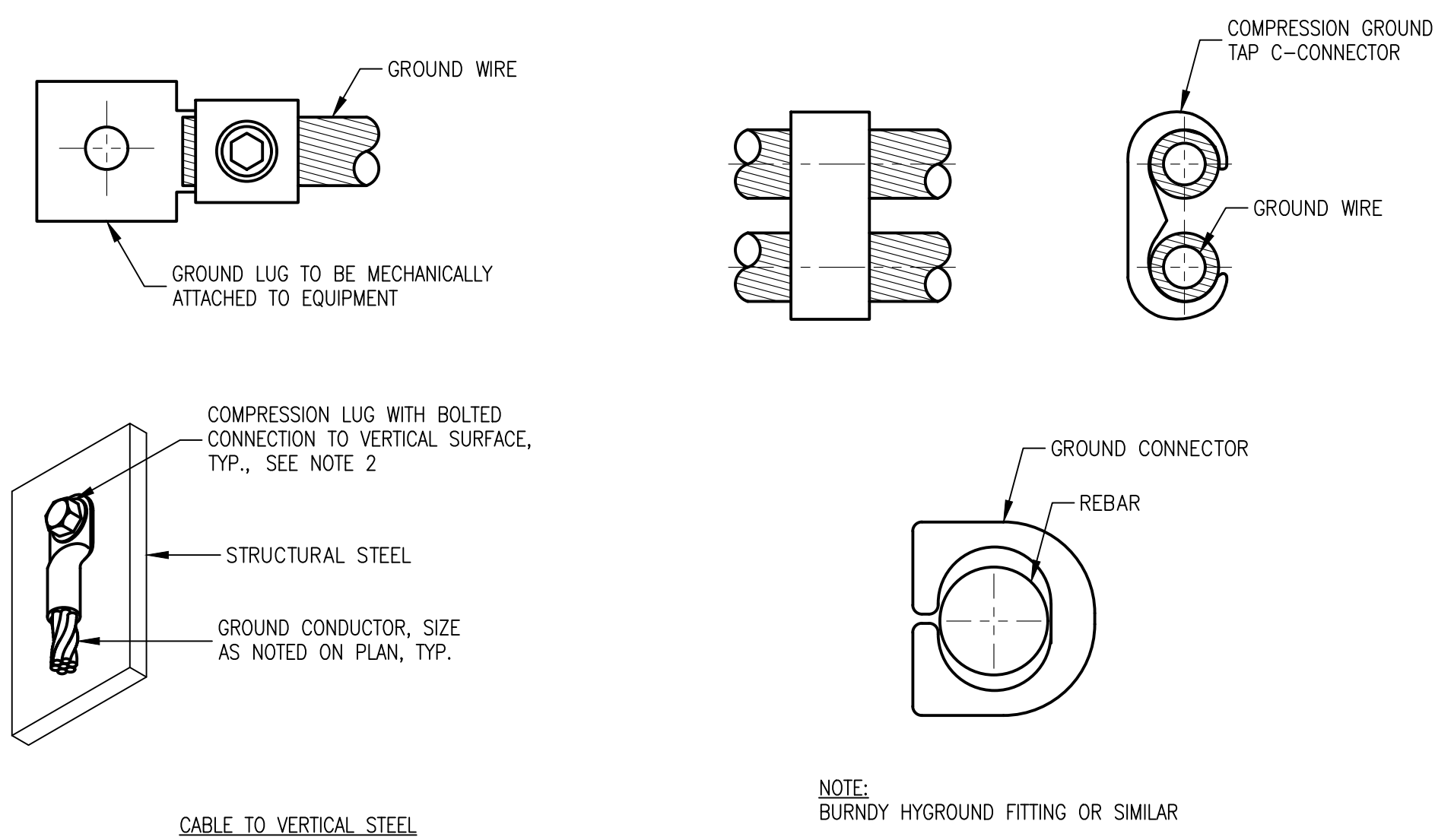
2 SWITCHBOARD GROUNDING SCHEMATIC  
SCALE: NTS



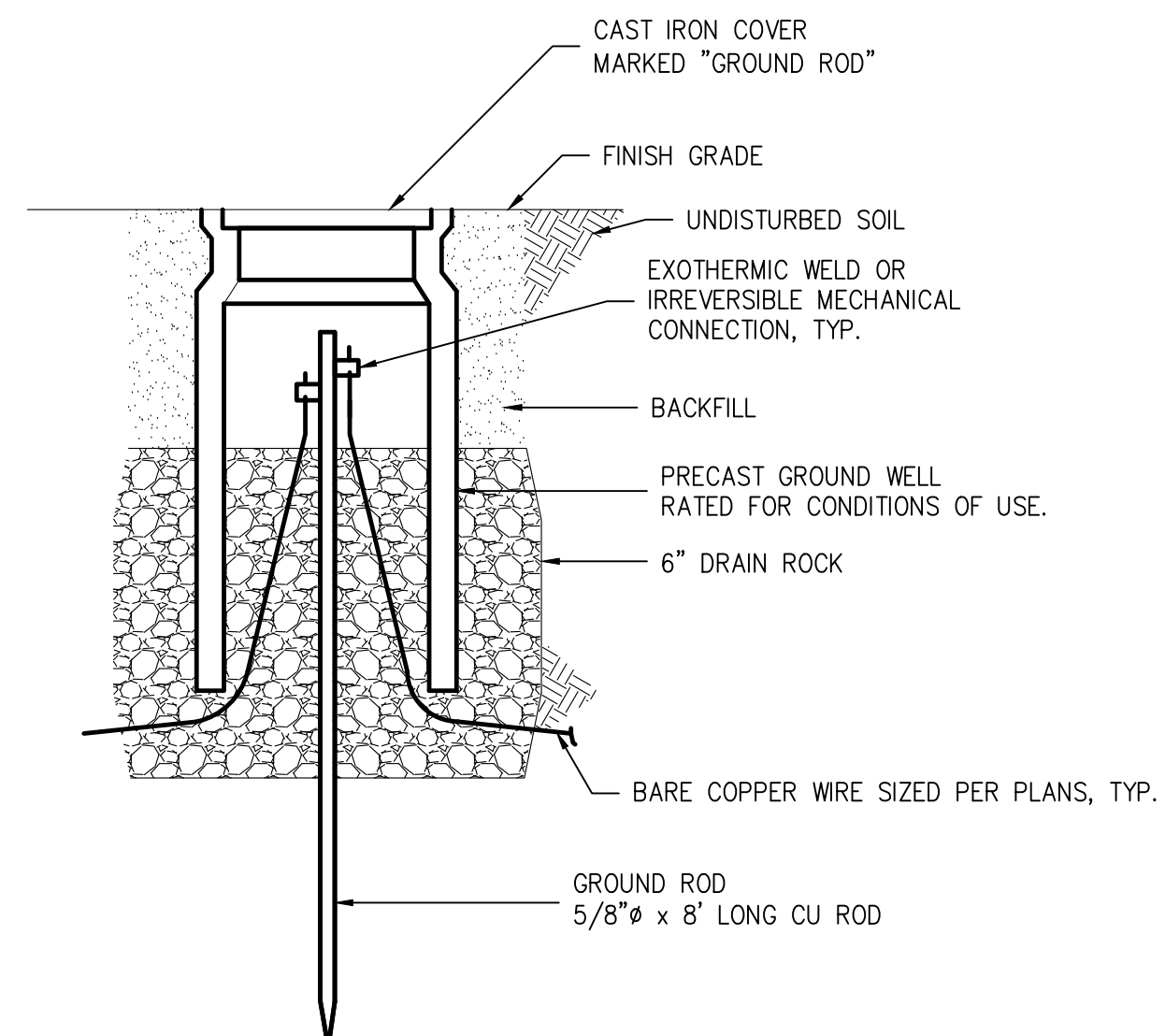
3 BURIED GROUND ROD  
SCALE: NTS



4 WELDED GROUNDING CONNECTION DETAILS  
SCALE: NTS



5 GROUNDING CONNECTION DETAILS  
SCALE: NTS



6 GROUND ROD WELL  
SCALE: NTS

### GENERAL NOTES

- REFER TO SINGLE LINE DIAGRAM FOR EQUIPMENT SPECIFICATIONS AND CONDUCTOR SIZES.
- ALL GROUND RODS SHALL MAINTAIN A MINIMUM 6FT SEPARATION.
- THE GROUND WIRE MUST BE A CONTINUOUS WIRE THAT RUNS FROM THE OUTSIDE GROUND ROD, UNDER THE PAD, TO THE PRIMARY WINDOW, THEN ABOVE THE PAD FROM THE PRIMARY WINDOW, THROUGH THE SECONDARY WINDOW TO THE SECOND GROUND ROD AS SHOWN.
- CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY, AND SHALL BE COORDINATED TO AVOID INTERFERENCES WITH OTHER UTILITIES/UNDERGROUND INSTALLATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD CHECKING AND MAKING ALL NECESSARY OFFSETS AS REQUIRED.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED NEC AND NESC CODES AND STANDARDS AND SHALL CONFORM WITH INDUSTRY BEST PRACTICES AND IEEE RECOMMENDATIONS. THE AHJ HAS FINAL JURISDICTIONAL AUTHORITY ON CODE APPLICATION AND COMPLIANCE.
- ALL WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES.
- EXPOSED NON-CURRENT CARRYING METAL PARTS OF ALL EQUIPMENT AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A). GROUND IN ACCORDANCE WITH LISTING.
- ALL GROUNDING ELECTRODE CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELD PROCESS, OR UL LISTED IRREVERSIBLE MECHANICAL CONNECTORS, SUITABLE FOR ITS USE.
- EQUIPMENT SIZES SHOWN ARE TYPICAL REFER TO SUBMITTAL DRAWINGS FOR ACTUAL SIZES.
- ALL GND CONNECTIONS SHALL BE MADE USING UL LISTED IRREVERSIBLE COMPRESSION CONNECTOR OR EXOTHERMIC WELD PROCESS AS APPLICABLE. MECHANICAL GND CONNECTORS CAN BE APPROVED FOR AN ABOVEGROUND CONNECTIONS. CONTRACTOR TO VERIFY ELECTRODE RESISTANCE TO THE GROUND BY 3-POINT TESTING METHOD. THIS RESISTANCE SHALL NOT EXCEED 50.



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SHEET TITLE  
GROUNDING DETAILS

SHEET NUMBER  
E-8.0





- 1 MINIMUM BURIAL DEPTH IS 24" UNDER STREETS, DRIVEWAYS AND PARKING LOTS AND 18" MINIMUM DEPTH UNDER LANDSCAPING AREA PER NEC TABLE 300.5.



GLENWOOD VILLAGE  
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[illegible]

ORIGINAL SIZE 24"X36"  
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PROJECT #  
22001.107

SHEET TITLE

## TRENCH DETAILS

SHEET NUMBER

## 8.1





**Delta Electronics (Americas) Ltd.**  
46101 Fremont Boulevard Fremont, CA94538, U.S.A.  
TEL : +1 510 888  
E-mail : [evcs@deltaww.com](mailto:evcs@deltaww.com)  
[evcharging.deltaww.com](http://evcharging.deltaww.com)

**Delta Electronics Inc.**  
3 Tungyuan Road, Chungli Industrial Zone,  
Taoyuan City 32063, Taiwan  
TEL : +886 3 4526107



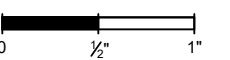
2021 / 04



GLENWOOD VILLAGE  
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PROJECT #  
222001.107

SHEET TITLE

EQUIPMENT  
SPECIFICATIONS

SHEET NUMBER

E-10.0



1

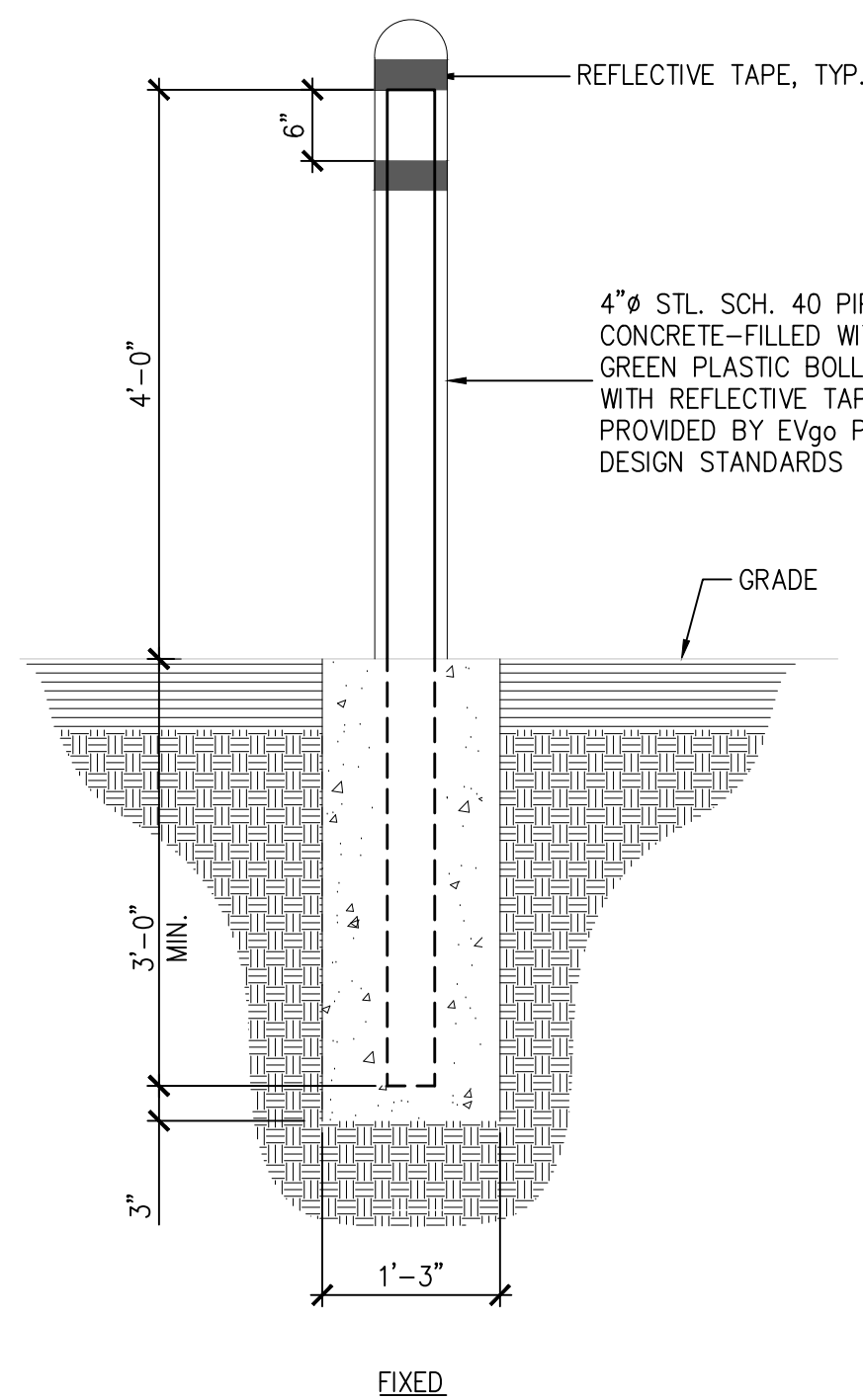
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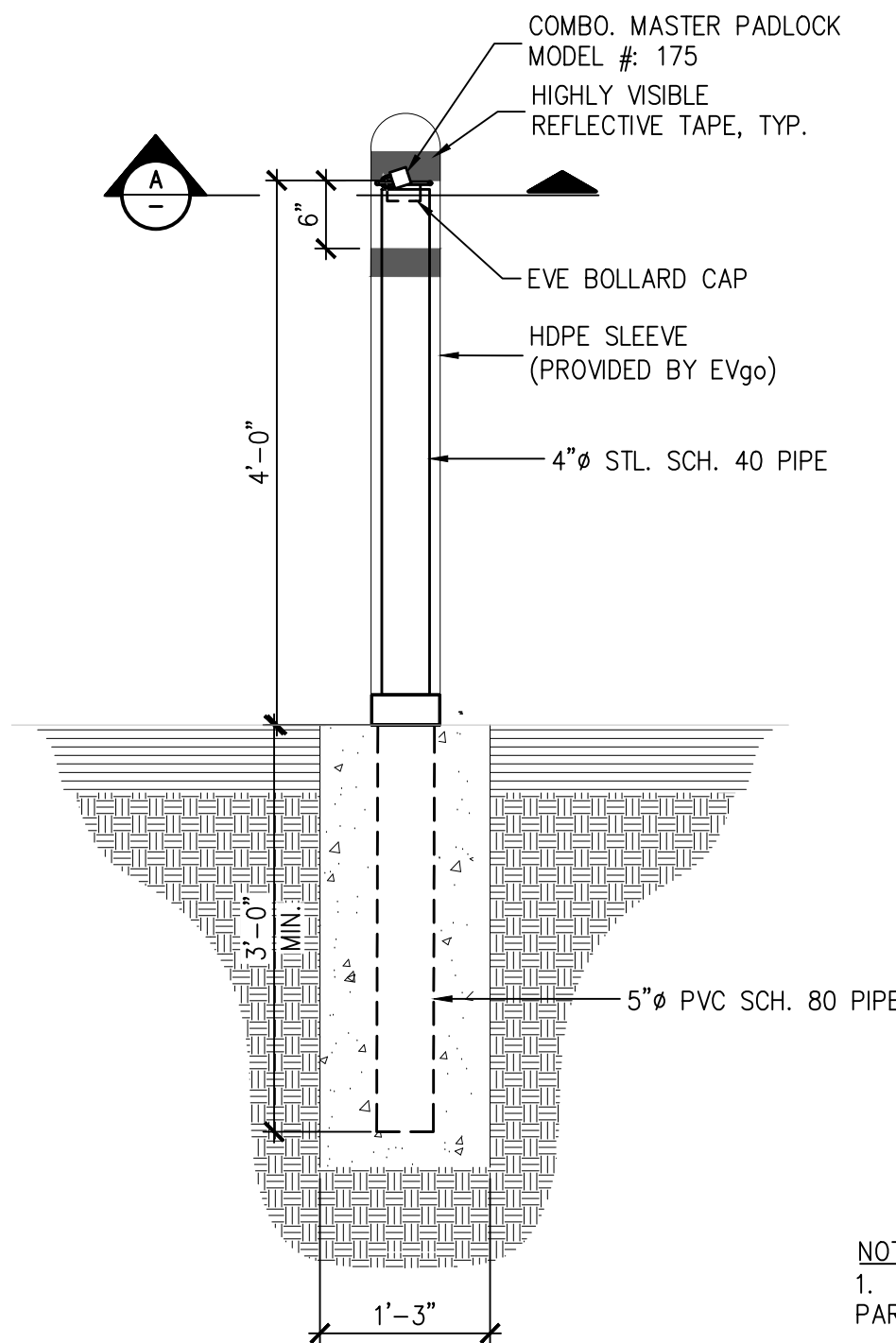
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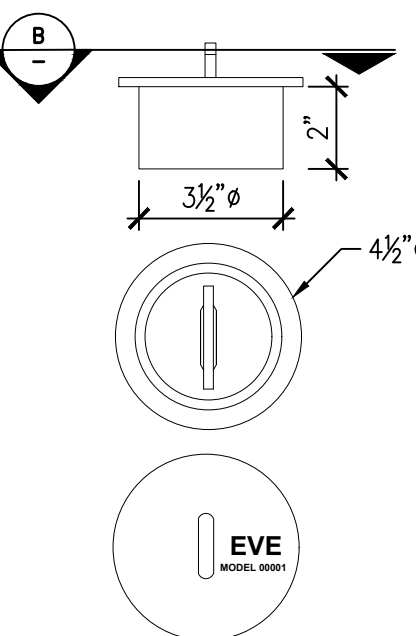
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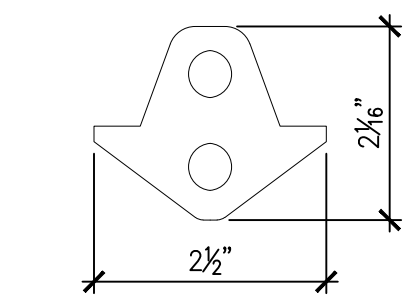
1 4" DIA FIXED. BOLLARD DETAIL  
G-100 SCALE: 3/4" = 1'-0"



2 4" DIA. REMOVABLE BOLLARD DETAIL  
G-100 SCALE: 3/4" = 1'-0"

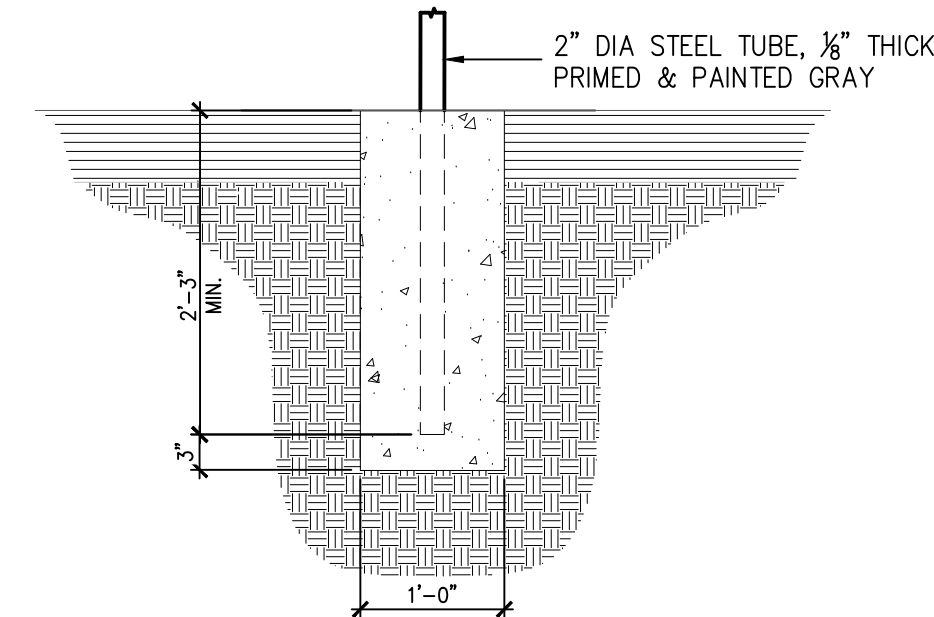


A EVE BOLLARD CAP  
SCALE: NTS

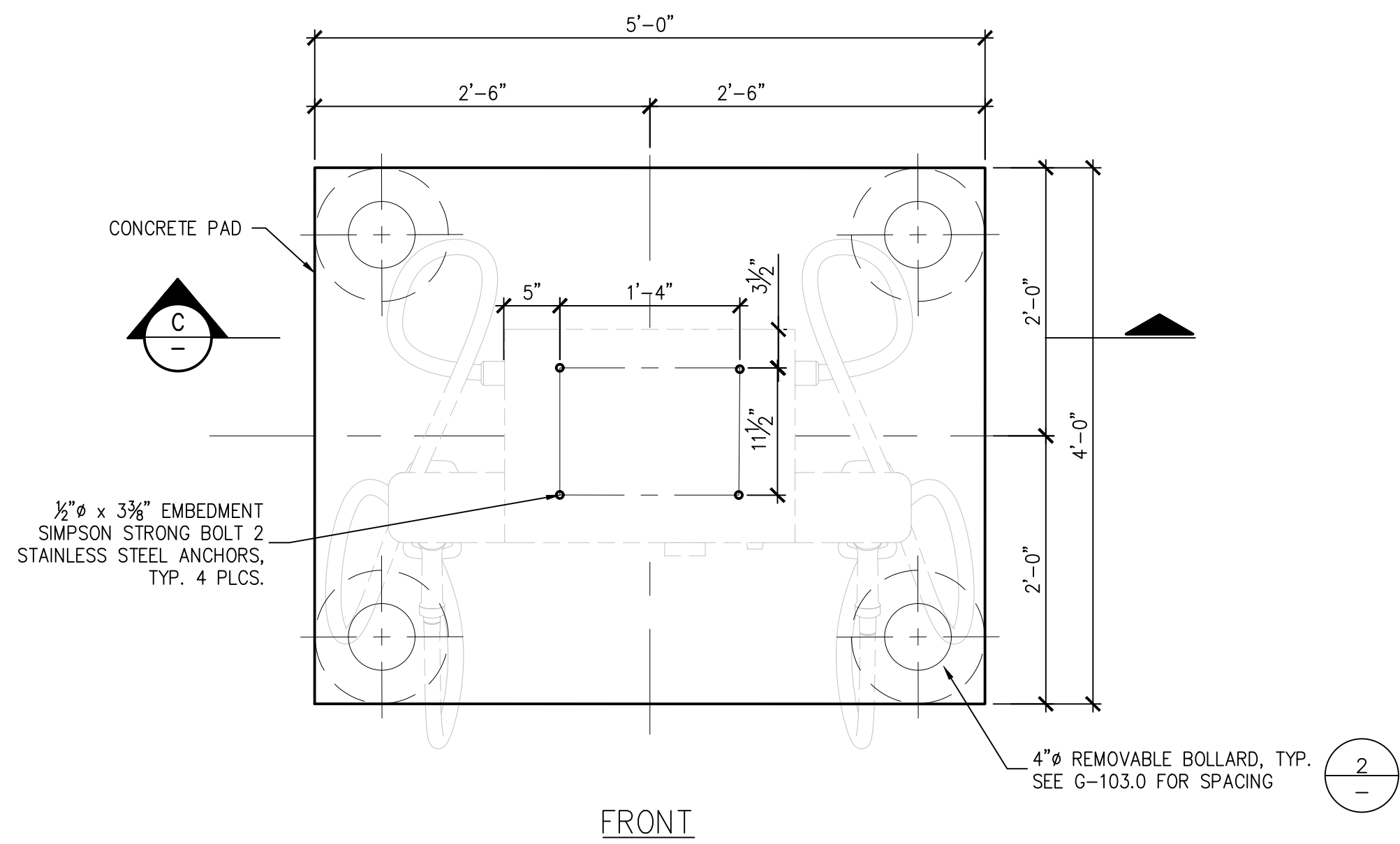


B EVE BOLLARD CAP - BRACKET  
SCALE: NTS

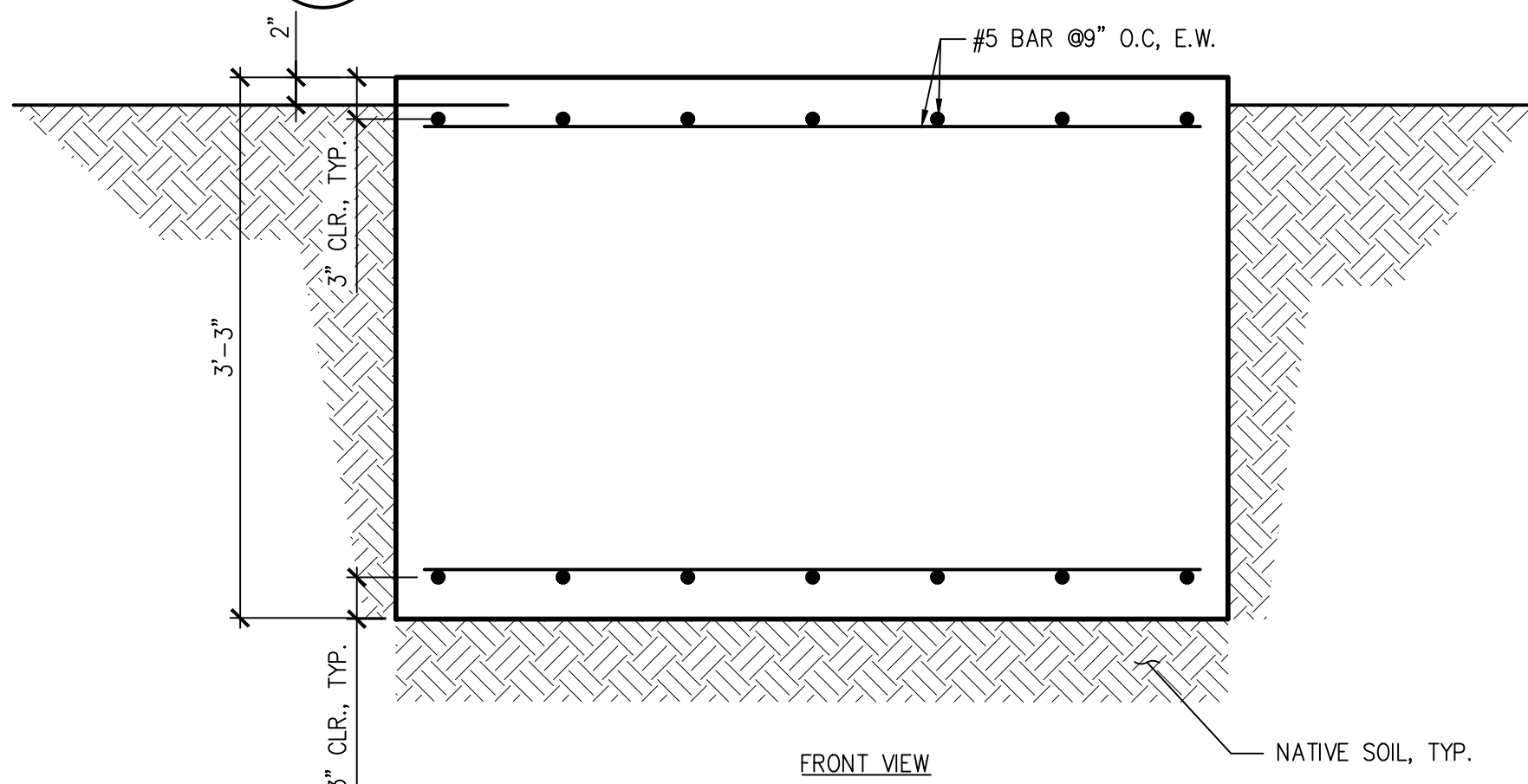
NOTES  
1. PRODUCT DETAILS: EVE LOCKING BOLLARD CAP,  
PART NUMBER: 00001



3 SIGN POST FOUNDATION  
G-100 SCALE: 3/4" = 1'-0"



4 DELTA 350KW CHARGER CONCRETE PAD PLAN  
G-100 SCALE: 1" = 1'-0"



C CONCRETE PAD SECTION  
SCALE: 1" = 1'-0"

### CONCRETE NOTES

- ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 & 318 LATEST EDITION.
- ALL SLAB ON GRADE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 302.1R.
- CONCRETE SHALL BE:  
2,500 psi @ 28 DAY COMPRESSIVE STRENGTH, TYPE I/TYPE II CONCRETE
- MAXIMUM SLUMP 4". WATER TO CEMENT RATIO: FROM .47 TO .53
- AGGREGATE GRADATION AND QUALITY SHALL BE IN ACCORDANCE WITH ACI 302-1R.
- REINFORCEMENT SHALL BE ASTM A615 GR60.
- MINIMUM CONCRETE COVER SHALL BE 3" TO EARTH, 1.5" TO SKY.

### SPECIAL INSPECTIONS

- ANCHOR ELECTRICAL EQUIPMENT WITH SIMPSON STRONG BOLT 2 STAINLESS STEEL ANCHOR BOLTS, OR APPROVED EQUAL. INSTALLATION AND SPECIAL INSPECTION PER SECTION 4.3 AND 4.4 OF ICC REPORT ESR-3037.  
ANCHOR BOLT INSTALLATION TORQUE:  
3/8" - 30 LB.-FT. TORQUE  
1/2" - 60 LB.-FT. TORQUE  
5/8" - 90 LB.-FT. TORQUE



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SHEET SIZE ARCH "D"

PROJECT #  
222001.107

SHEET TITLE  
STRUCTURAL  
DETAILS

SHEET NUMBER  
S-1.0





1. ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 & 318 LATEST EDITION.
2. ALL SLAB ON GRADE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 302.1R.
3. CONCRETE SHALL BE:  
2,500 psi @ 28 DAY COMPRESSIVE STRENGTH, TYPE I/TYPE II CONCRETE
4. MAXIMUM SLUMP 4". WATER TO CEMENT RATIO: FROM .47 TO .53
5. AGGREGATE GRADATION AND QUALITY SHALL BE IN ACCORDANCE WITH ACI 302-1R.
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## SPECIAL INSPECTIONS

- ANCHOR ELECTRICAL EQUIPMENT WITH SIMPSON STRONG BOLT 2 STAINLESS  
STEEL ANCHOR BOLTS, OR APPROVED EQUAL, INSTALLATION AND SPECIAL  
INSPECTION PER SECTION 4.3 AND 4.4 OF ICC REPORT ESR-3037.
- ANCHOR BOLT INSTALLATION TORQUE:
- 3/8"φ - 30 LB.-FT. TORQUE  
1/2"φ - 60 LB.-FT. TORQUE  
5/8"φ - 90 LB.-FT. TORQUE

[illegible]

SEE STRUCTURAL SHEET

2'

1'-0"

T.O.G.

50

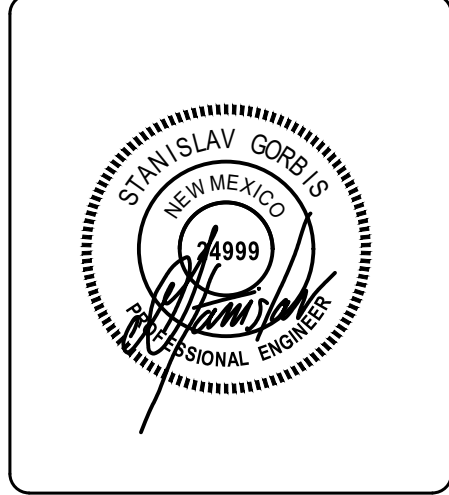
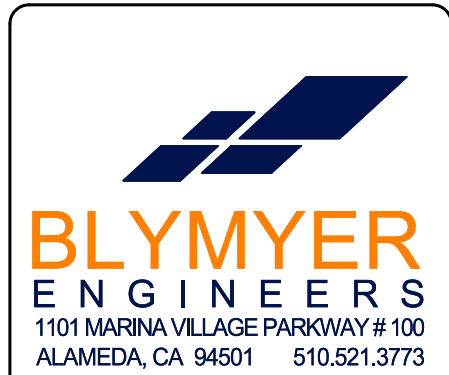
4"

135°

#5 BAR

#5 BAR @ 1'-0", E.W.

**CONCRETE PAD SECTION**  
SCALE: 3/4" = 1'-0"



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[illegible]

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## SHEET TITLE

# STRUCTURAL DETAILS

SHEET NUMBER

S-2.0