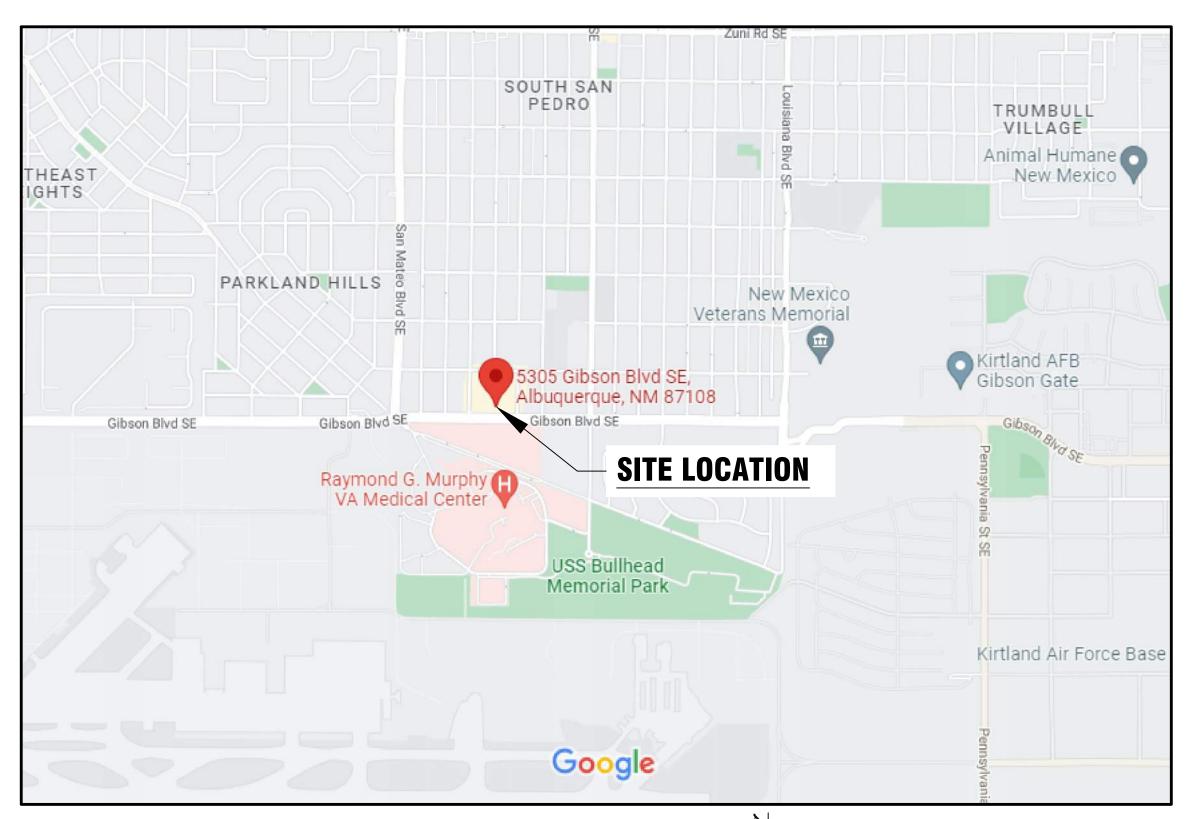
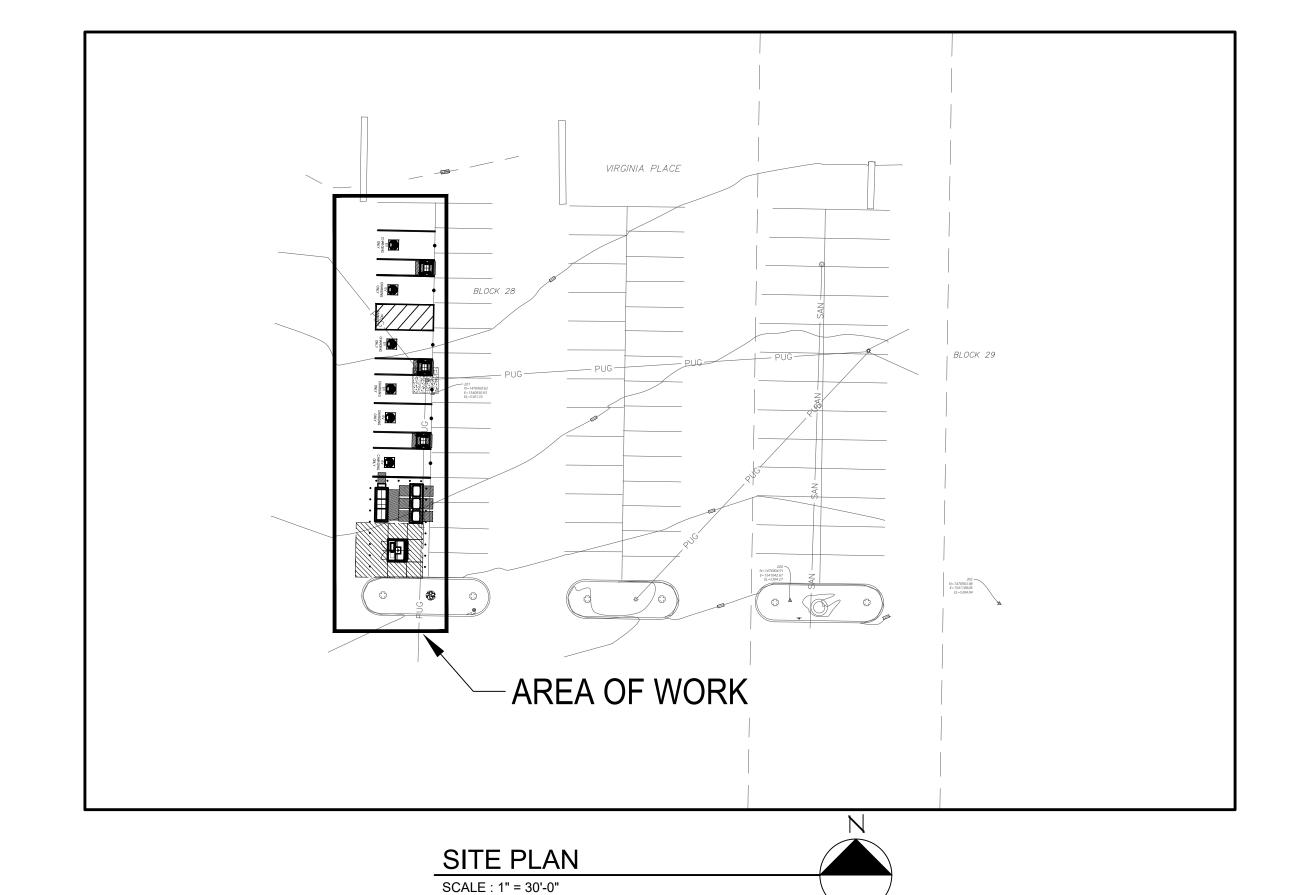
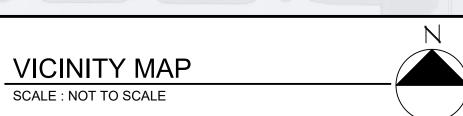
SIESTA HILLS 5305 S. GIBSON BOULEVARD - EV ALBUQUERQUE, NM 87108







В	LYMYER 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 ÈVGO PROVIDED SIGNAGE
- INSTALL (1) UTILITY TRANSFORMER (AS REQUIRED BY UTILITY)
 INSTALL SWITCHGEAR ASSEMBLY AND ALL UNDERGROUND CONDUIT AND
- 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:

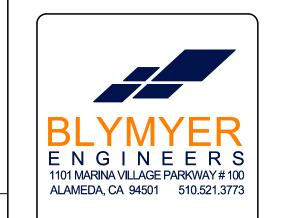
EVGO - MANDEEP GURAGAIN - (408) 666-8573 BLYMYER ENGINEERS - STAS GORBIS - (510) 521-3773

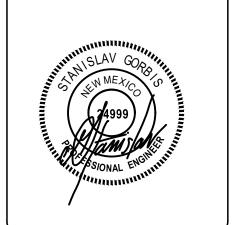
APPLICABLE CODES

2015 NMRC NEW MEXICO RESIDENTIAL CODE
2015 NMBC NEW MEXICO BUILDING CODE
2015 NMFC NEW MEXICO FIRE CODE
2015 NMMC NEW MECIXO 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







SIESTA HILLS 5305 S GIBSON BOULEVARD -ALBUQUERQUE, NM 87108

9	NO. REVISION	DATE	Ä.
0	ISSUE FOR PERMIT	10/17/22	
_	CITY COMMENTS	01/13/23	

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

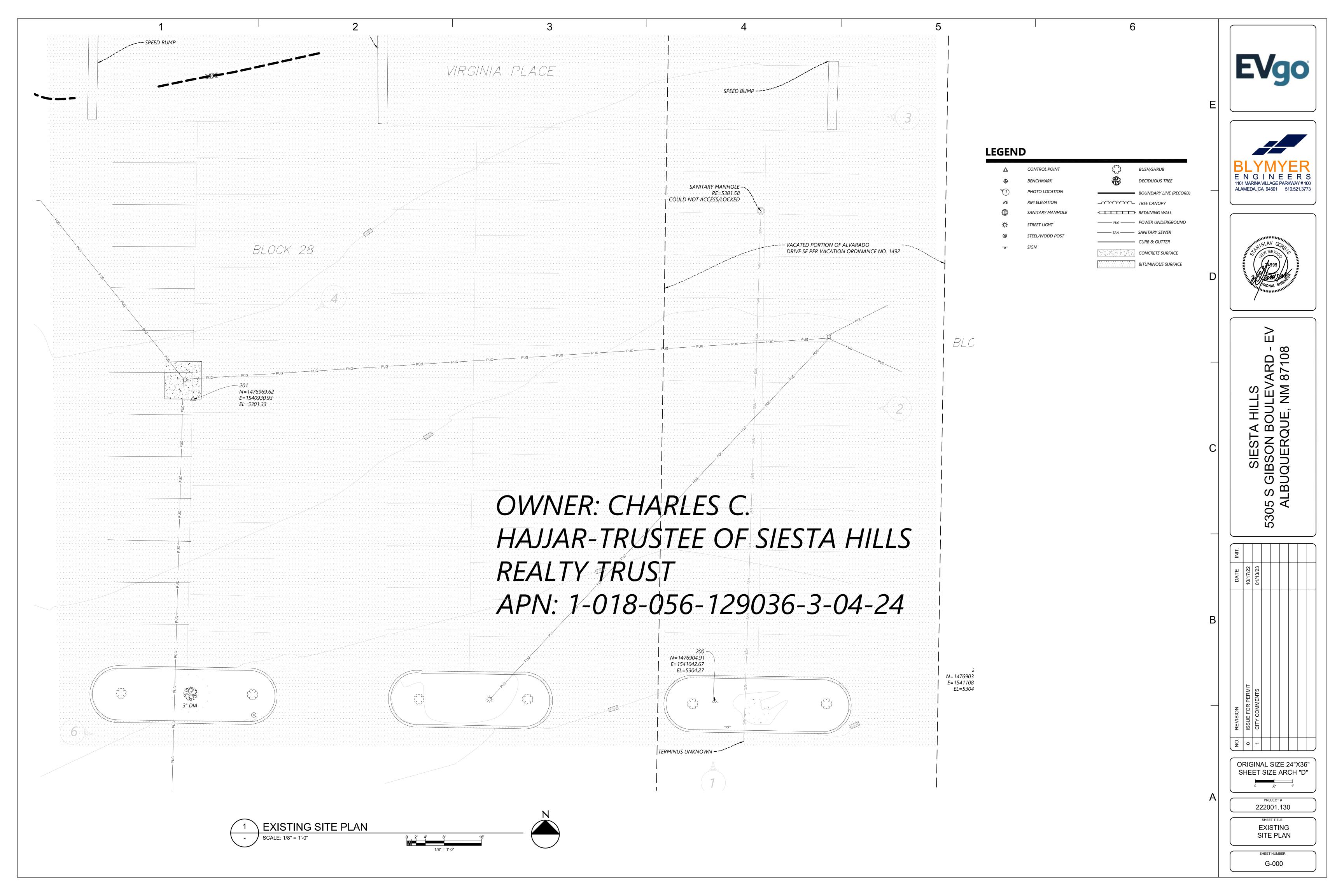
PROJECT # 222001.130

SHEET TITLE

COVER SHEET

SHEET NUMBER

CS-1





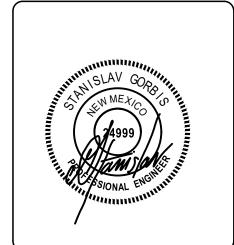
	·/ (E / O/O
TOTAL BUILDING AREA (S.F.)	97,895
TOTAL NUMBER OF REQUIRED PARKING SPACES	
ONE SPACE PER 200 SQUARE FEET FOR THE FIRST 15,000 SQUARE FEET OF NET LEASABLE AREA; THEN, ONE SPACE PER 250 SQUARE FEET FOR THE NEXT 45,000 SQUARE FEET OF NET LEASABLE AREA; THEN, ONE SPACE PER 300 SQUARE FEET FOR THE NET LEASABLE AREA THAT EXCEEDS 50,000 SQUARE FEET)	382
TOTAL NUMBER OF PROPOSED STANDARD PARKING SPACES	435
TOTAL NUMBER OF REQUIRED BICYCLE PARKING SPACES	
ONE BICYCLE SPACE PER EACH 20 PARKING SPACES REQUIRED FOR AUTOMOBILES AND LIGHT TRUCKS)	20
·	
OTAL NUMBER OF REQUIRED	6

^

MOTORCYCLE PARKING SPACES







SIESTA HILLS 5305 S GIBSON BOULEVARD -ALBUQUERQUE, NM 87108

 O. REVISION
 DATE
 INIT.

 1 ISSUE FOR PERMIT
 10/17/22
 10/13/23

 1 CITY COMMENTS
 01/13/23
 10/13/23

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

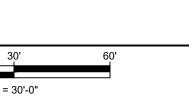
PROJECT#
222001.130

SHEET TITLE
OVERLAY SITE

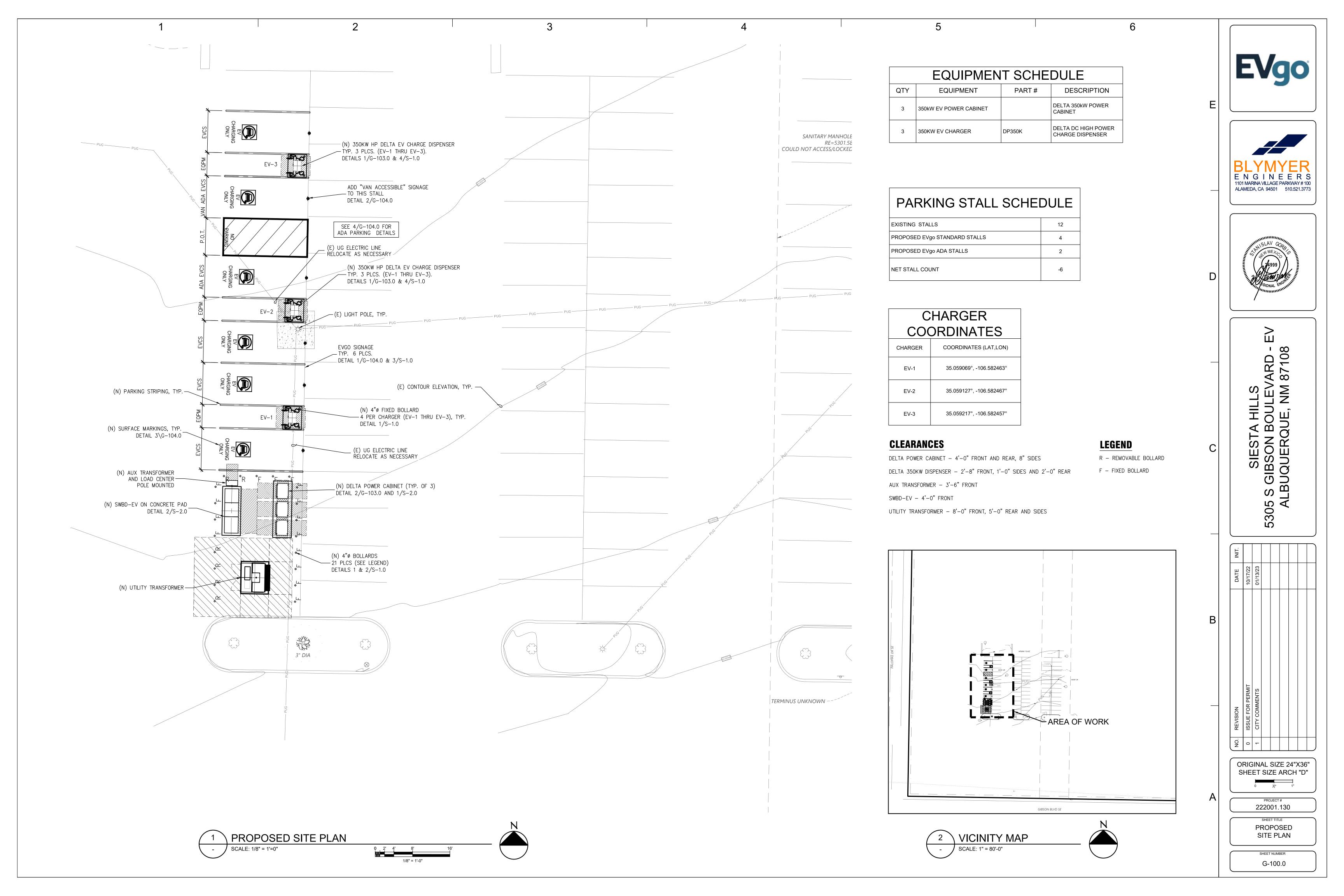
SHEET NUMBER
G-001

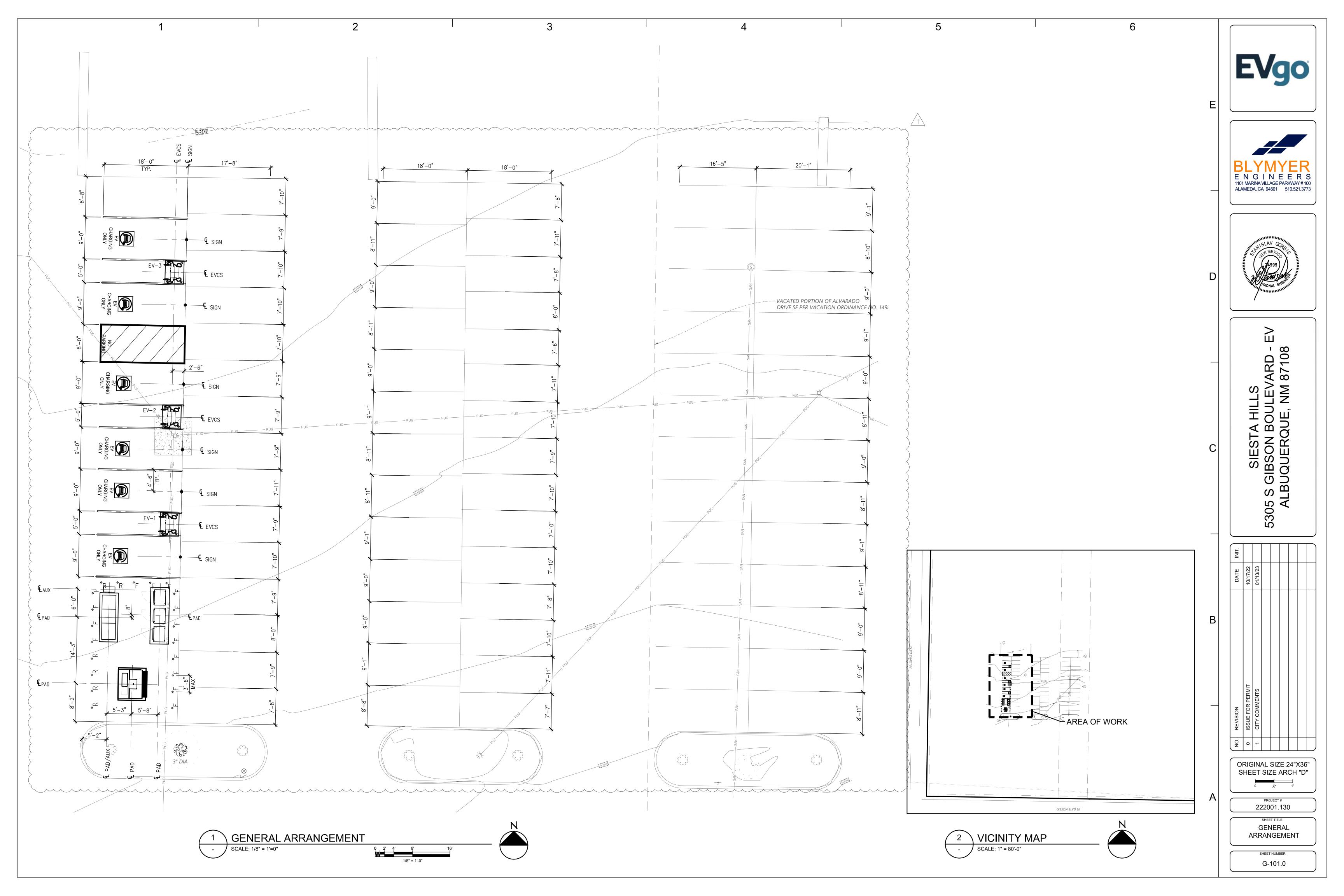
PLAN

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



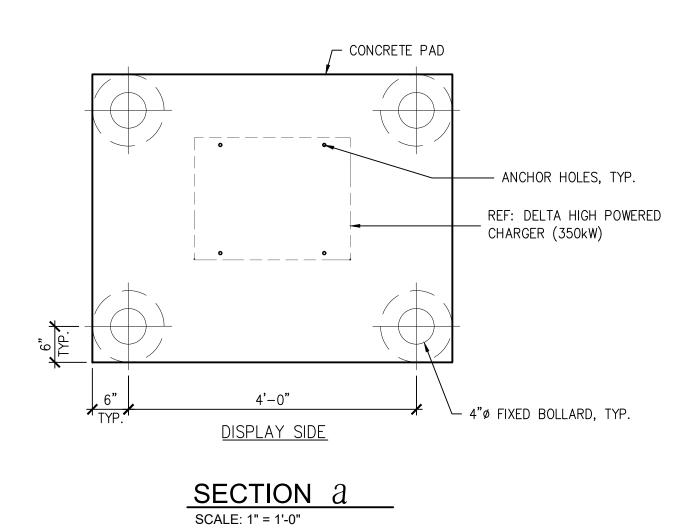






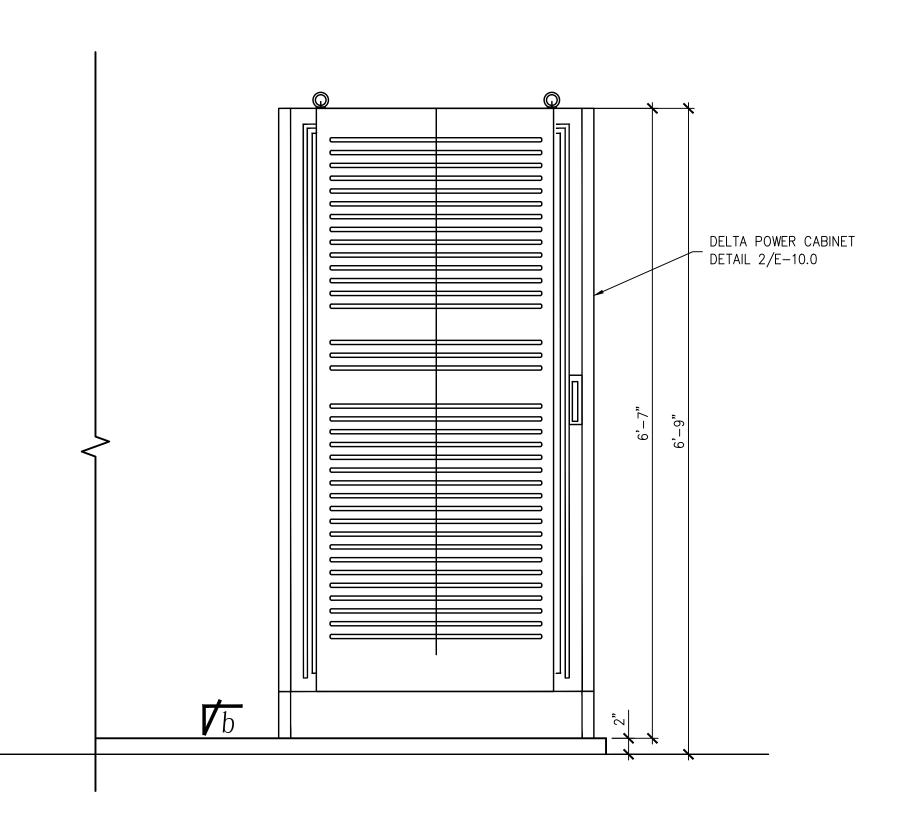
3





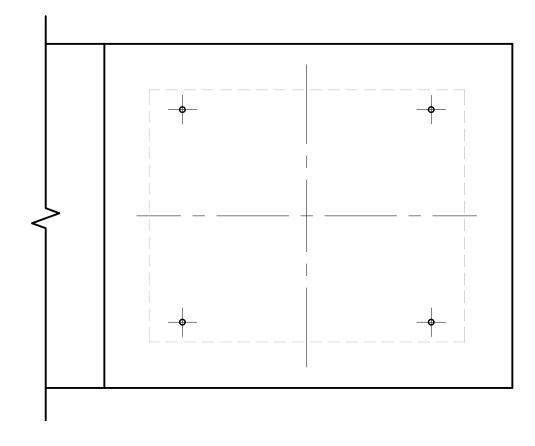
NOTE:

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



DELTA POWER CABINET DETAIL

G-100 SCALE: 1" = 1'0"

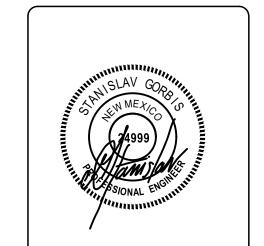


SECTION b

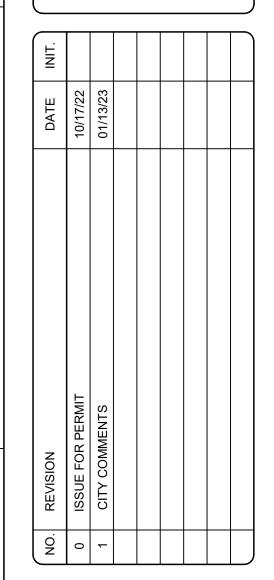
SCALE: 1" = 1'-0"







SIESTA HILLS 5305 S GIBSON BOULEVARD - I ALBUQUERQUE, NM 87108



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

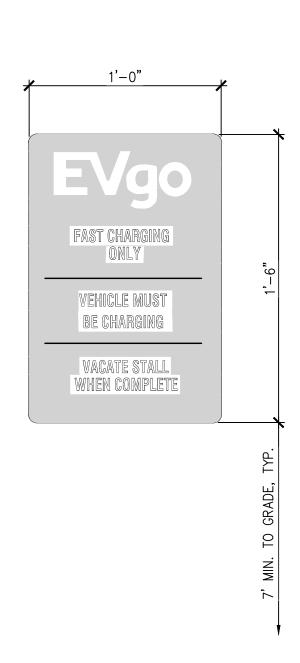
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SHEET TITLE

EQUIPMENT

DETAILS

SHEET NUMBER
G-103.0



STANDARD STALL SIGNAGE DETAIL

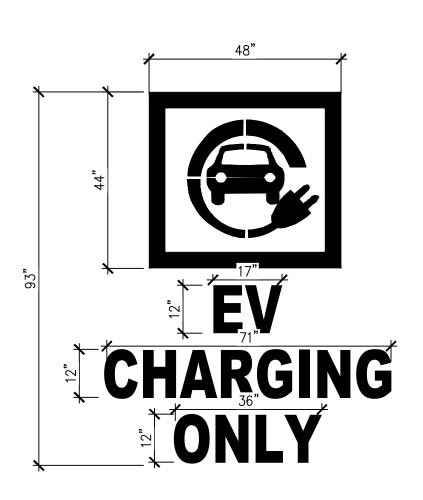
G-100.0 SCALE: 2" = 1'-0"

1'-0" RESERVED **PARKING** VIOLATORS ARE SUBJECT TO A FINE AND/OR TOWING VAN ACCESSIBLE ADA ISA VAN SIGN

ACCESSIBLE SIGNAGE DETAIL

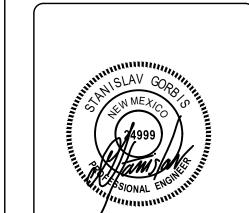
SIGN NOTES:

- 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.



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)



ALAMEDA, CA 94501 510.521.3773

/ARD -87108

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

SIESTA HILLS GIBSON BOULE BUQUERQUE, NI

5305 Al

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

PROJECT# 222001.130

SHEET TITLE

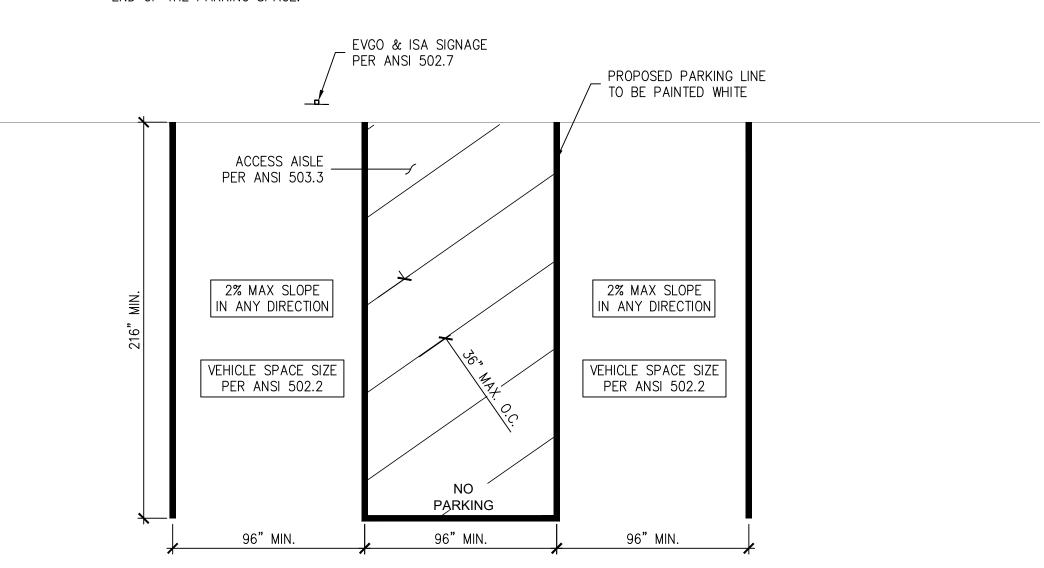
PARKING STALL DETAILS

G-104.0

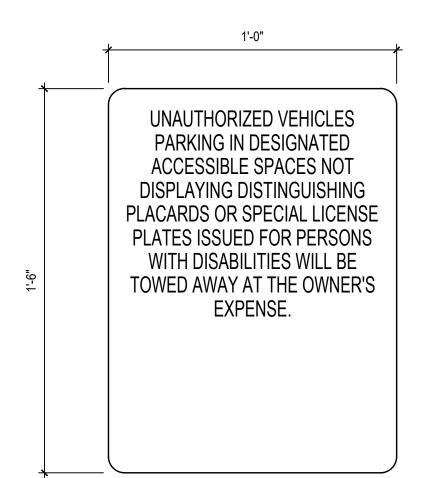
1. PROPOSED ADA STALLS AND WALKWAY SHALL BE MAX 2% SLOPE IN ALL DIRECTIONS.

G-100.0 SCALE: 2" = 1'-0"

- 2. REFER TO G-100 FOR PROPOSED SITE PLAN.
- 3. LOWER SIDE OF MARKING SHALL BE ALIGNED WITH THE END OF THE PARKING SPACE.







<u>LETTERING PER 66-7-352.4C NMSA 1978</u>



- 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.
- 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.
- 3. ALL WORK SHALL BE COORDINATED WITH THE OWNER TO MAINTAIN CONTINUITY OF SERVICE AND MAXIMUM UTILIZATION OF THE OWNERS FACILITY.
- 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.
- 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.
- . 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.
- 7. REFER TO THE DRAWINGS FOR LOCATIONS AND SPACE REQUIREMENTS OF ELECTRICAL EQUIPMENT. COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WITH OTHER TRADES.
- 8. POWER FEEDERS ARE SHOWN ON ELECTRICAL PLAN. REFER TO THE SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
- 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.
- 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.
- 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.
- 12. ELECTRICAL EQUIPMENT SHOWN OR SPECIFIED FOR THIS PROJECT HAS BEEN GENERALLY SFI FCTFD 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.
- 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
- 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.
- 15. CONTRACTOR SHALL REVIEW THE SECTIONS OF EACH DIVISION OF THE SPECIFICATION (WHERE APPROPRIATE) AND PROVIDE CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT AS MAY BE
- 16. ALL CONDUIT ONLY (CO) NOTED SHALL HAVE PULL ROPES OR WIRES INSTALLED, TENSILE

STRENGTH MINIMUM OF 200 FT/LBS.

- 17. CONTRACTOR SHALL PROVIDE PULL BOX(S) AS REQUIRED TO COMPLY WITH NEC 352.26 & NEC
- 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.
- 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.
- 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.
- 21. THE CONTRACTOR SHALL CONSULT THE MECHANICAL, STRUCTURAL, AND OTHER DRAWINGS AND DOCUMENTATION RELATED TO THE PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

- 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.
- 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.
- 24. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.
- 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.
- 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.
- 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.
- 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.
- 29. THE CONTRACTOR SHALL PROVIDE ALL FUSES AND OVERLOAD HEATER ELEMENTS REQUIRED FOR THIS CONTRACT INSTALLATION INCLUDING ANY FUSES BLOWN DURING INITIAL TESTING.
- 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.
- 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.
- 32. THE CONTRACTOR SHALL REFER TO MANUFACTURER AND SUPPLIER OF ELECTRICAL CONTROL EQUIPMENT FOR EXACT WIRING INTERCONNECTION.
- 33. ALL CONDUCTORS SHALL BE ALUMINUM OR COPPER STRANDED, AND HAVE INSULATION TEMPERATURE RATING 90°C, UNLESS OTHERWISE NOTED.
- 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:

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	•

35. USE WIRE IDENTIFICATION COLOR CODE PER SPECIFICATIONS BELOW.

INTRINSICALLY SAFE CIRCUITS EQUIPMENT GROUNDING CONDUCTOR

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.

CONTROL CIRCUITS SUPPLIED FROM EXTERNAL POWER SOURCE, INTERLOCKS

- 37. THE ELECTRICAL DESIGN AND EQUIPMENT RATINGS ARE BASED ON ELECTRICAL SYSTEM STUDIES
- WHICH MAY INCLUDE: A. LOAD FLOW
- B. SHORT CIRCUIT C. ARC FLASH
- D. RELAY COORDINATION
- E. GROUNDING
- F. CABLE SIZING
- 39. OUTDOOR SITE LIGHTING SHALL COMPLY WITH DARK SKY GUIDELINES.

TEST RESULTS SHALL BE MADE AVAILABLE TO THE ENGINEER OF RECORD OR BUILDING OFFICIAL UPON REQUEST.

- . GROUND-FAULT PROTECTION EQUIPMENT 1.1. VERIFY PICKUP AND TIME DELAY SETTINGS ARE IN ACCORDANCE WITH SETTINGS PROVIDED BY THE ENGINEER OR EQUIPMENT MANUFACTURER.
- 2. ELECTRICAL TESTS SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS AND OTHER EQUIPMENT RATED 1000 AMPERES OR MORE, OR OVER 1000 VOLTS. 2.1. RELAY PICKUP CURRENT BY CURRENT INJECTION AT THE SENSOR AND OPERATION OF THE
- CIRCUIT INTERRUPTING DEVICE TEST RELAY TIMING.
- TEST PRIMARY CONTROL VOLTAGE AT NOT MORE THAN 57 PERCENT OF ITS RATED VOLTGROUNDED CONDUCTOR INSULATION RESISTANCE

VERIFICATION OF CONTINUITY OF EQUIPMENT GROUNDING SYSTEM.

- INSULATION RESISTANCE TEST ON EACH BUS AND PROTECTIVE DEVICE, PHASE-TO-PHASE AND PHASE-TO-GROUND.
- 2.6. DIELECTRIC VOLTAGE-WITHSTAND TEST ON EACH BUS AND PROTECTIVE DEVICE, PHASE-TO-PHASE AND PHASE-TO-GROUND.
- CONTROL POWER TRANSFORMER, CONTROL POWER CIRCUITS AND POTENTIAL CIRCUITS.
- 2.8. CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.
- FLECTRICAL TESTS ON TRANSFORMERS RATED 100 KVA OR MORE SINGLE PHASE AND 300 KVA OR MORE THREE PHASE
- 3.1. INSULATION RESISTANCE TEST ON EACH WINDING. TEST WINDING-TO-WINDING AND WINDINGS-TO-GROUND.
- TURNS-RATIO TEST FOR EACH WINDING AT ALL TAP SETTINGS. 3.3. CONTROL POWER TRANSFORMER, CONTROL POWER CIRCUITS AND POTENTIAL CIRCUITS.
- 3.4. CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.

CONTROL AND PROTECTIVE DEVICES FOR PROPER OPERATION.

PHASE-TO-GROUND

- 4. CONDUCTORS THAT SUPPLY EQUIPMENT RATED AT 1000 AMPERES OR MORE. OR OVER 1000 VOLTS 4.1. INSULATION RESISTANCE TEST ON EACH CONDUCTOR, PHASE-TO-PHASE AND PHASE-TO-GROUND.
- 4.2. DC HIGH-POTENTIAL TEST ON EACH CONDUCTOR, PHASE-TO-PHASE AND PHASE-TO-GROUND.
- 5. ELECTRICAL TESTS ON EMERGENCY AND STANDBY POWER SYSTEMS: SWITCHBOARDS, PANELBOARDS DISTRIBUTION BOARDS, TRANSFER EQUIPMENT, POWER SOURCE, CONDUCTORS, FIRE PUMPS, EXHAUST AND VENTILATION FANS.
- PHASE ROTATION TEST INSULATION RESISTANCE TEST ON FEEDER CONDUCTORS AND EQUIPMENT, PHASE-TO-PHASE AND
- 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.
- 5.5. CONDUCT OPERATIONAL TEST ON SYSTEM UNDER LOAD CONDITIONS.

- 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.
- 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.

EQUIPMENT SPECIFICATIONS

APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION:

THE FOLLOWING EQUIPMENT SPECIFICATION AND SUBMITTALS SHALL BE PROVIDED TO AND

- ELECTRICAL EQUIPMENT INCLUDING: SWITCHGEAR, PANELBOARDS, MOTOR CONTROL
- CENTERS, AND SAFETY SWITCHES.
- CONDUCTORS AND CABLES INCLUDING: MEDIUM VOLTAGE CABLES, LOW VOLTAGE CABLES, PV DC WIRING, AND CONTROL CABLES
- PROTECTIVE DEVICES INCLUDING: CIRCUIT BREAKERS, FUSES, RELAYS, AND
- PROTECTION SETTINGS.
- ELECTRIC VEHICLE CHARGING STATIONS LIGHTING (IF APPLICABLE)

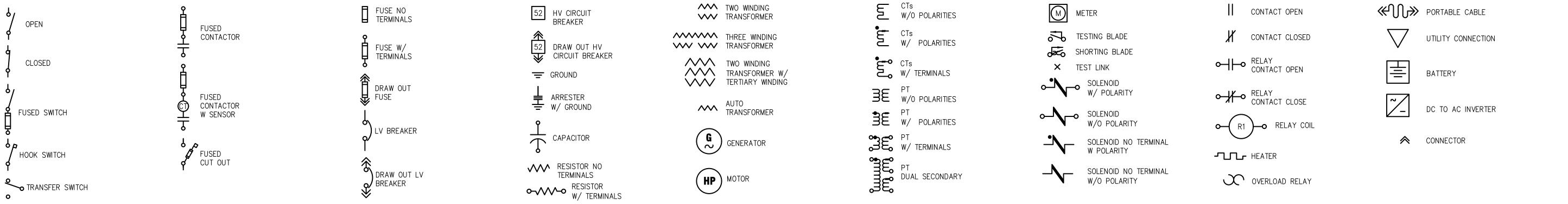
MOUNTING HEIGHTS

MOUNTING HEIGHTS SHALL BE TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. RECEPTACLES **VOLUME CONTROLS** RECEPTACLE WIREWAYS 43" THERMOSTATS SWITCHES 48" TELE/COMMUNICATION OUTLET MOTOR STARTERS, TO TOP 72" PANELBOARDS, TO TOP DISCONNECTS, TO TOP CABINETS, TO TOP 15" MIN. FIRE ALARM PULL STATIONS JUNCTION BOXES

ABBREVIATIONS

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

SYMBOLS

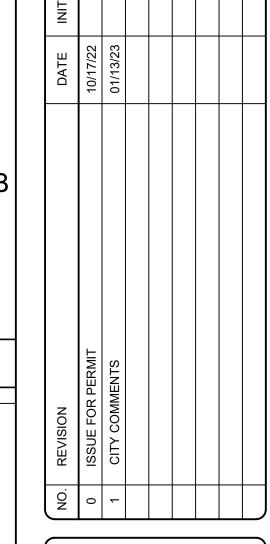








ARD 8710 SI GIBS S 05 A 3



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

222001.130

ELECTRICAL NOTES SYMBOLS AND **ABBREVIATIONS**

E-1.0

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.

ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A).

5. EXPOSED NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT AND

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 NEC 110.26.

12. INSTALL PULL—BOXES AS REQUIRED PER NEC 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 NEC 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.

KEYED NOTES

 \langle 1 \rangle 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 NEC

 $\overline{4}$ refer to coordination study for ocpd trip settings.

MAIN BREAKER IS REQUIRED TO INCLUDE MAINTENANCE MODE FOR ARC ENERGY REDUCTION IN ACCORDANCE WITH NEC 240.87

ALL OVERCURRENT PROTECTION DEVICES WILL HAVE THE SAME FAULT CURRENT RATING AS THE RATING OF PANEL, DISCONNECT OR SWITCHGEAR LOCATED

DELTA 350KW POWER CABINET
369 KVA
INPUT: 443A 480VAC, 3P/3W
OUTPUT: 150-950VDC, 540A MAX
NEMA 3R

B DELTA 350KW DISPENSER
1000VDC MAX
540A MAX CCS1, 200A MAX CHAdeMO
NEMA 3R

 $\stackrel{\textstyle ullet}{9}$ utility design to supersede wire and conduit requirement if different.

EQUIPMENT PROCUREMENT

EQUIPMENT PROVIDED BY EVGO: DELTA POWER CABINETS DELTA DISPENSERS SWITCHBOARD

EQUIPMENT PROVIDED BY CONTRACTOR:

CABLES
CABLE TERMINATIONS
CONDUITS AND FITTINGS
UTILITY UNDERGROUND STR

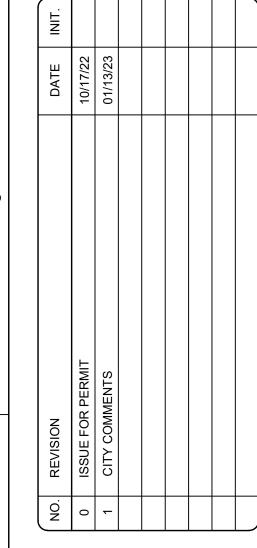
UTILITY UNDERGROUND STRUCTURES AND PADS
ADDITIONAL EQUIPMENT AS SPECIFIED ON THESE PLANS

EVgo





SIESTA HILLS 5305 S GIBSON BOULEVARD - E\ ALBUQUERQUE, NM 87108



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

PROJECT # 222001.130

ONE-LINE DIAGRAM

E-2.0

AC WIRE AND CONDUIT SCHEDULE

										* CONDUITS A	ARE MINIMUM REQUIF	RED SIZES; INSTALI	LED SIZES MAY BE LA	RGER, IF USED
ТО	FROM	CIRCUIT ID	VOLTAGE	CURRENT	OCP	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	18	0.06%
PC-2	SWBD-EV	PC-2	480	443	600	Cu	THWN-2	2	(3) 300 kcmil	N/A	#1 AWG (Cu)	3	16	0.06%
PC-3	SWBD-EV	PC-3	480	443	600	Cu	THWN-2	2	(3) 300 kcmil	N/A	#1 AWG (Cu)	3	16	0.06%
AUX-1	SWBD-EV	AUX-1	480	18	30	Cu	THWN-2	1	(3) #8 AWG	#8 AWG	#8 AWG (Cu)	1	12	0.06%
EV-1, EV-2, EV-3	SWBD-EV	AUX-D	120	16	20	Cu	THWN-2	1	(1) #6 AWG	#6 AWG	#6 AWG (Cu)	1	75	0.98%

DC WIRE AND CONDUIT SCHEDULE

										* CONDUITS A	ARE MINIMUM REQUIF	RED SIZES; INSTALL	ED SIZES MAY BE LA	RGER, IF USED
то	FROM	CIRCUIT ID	VOLTAGE	CURRENT	OCP	WIRE MATERIAL	WIRE INSULATION	PARALLEL SETS OF WIRES	PHASE CONDUCTORS PER SET	ADDITIONAL CONDUCTOR PER SET	EGC PER SET	*MIN PVC 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	45	0.05%
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%

COMMUNICATIONS CABLE AND CONDUIT SCHEDULE

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

EEEDED NOTES

EV CHARGING STATION

INTERCONNECTION

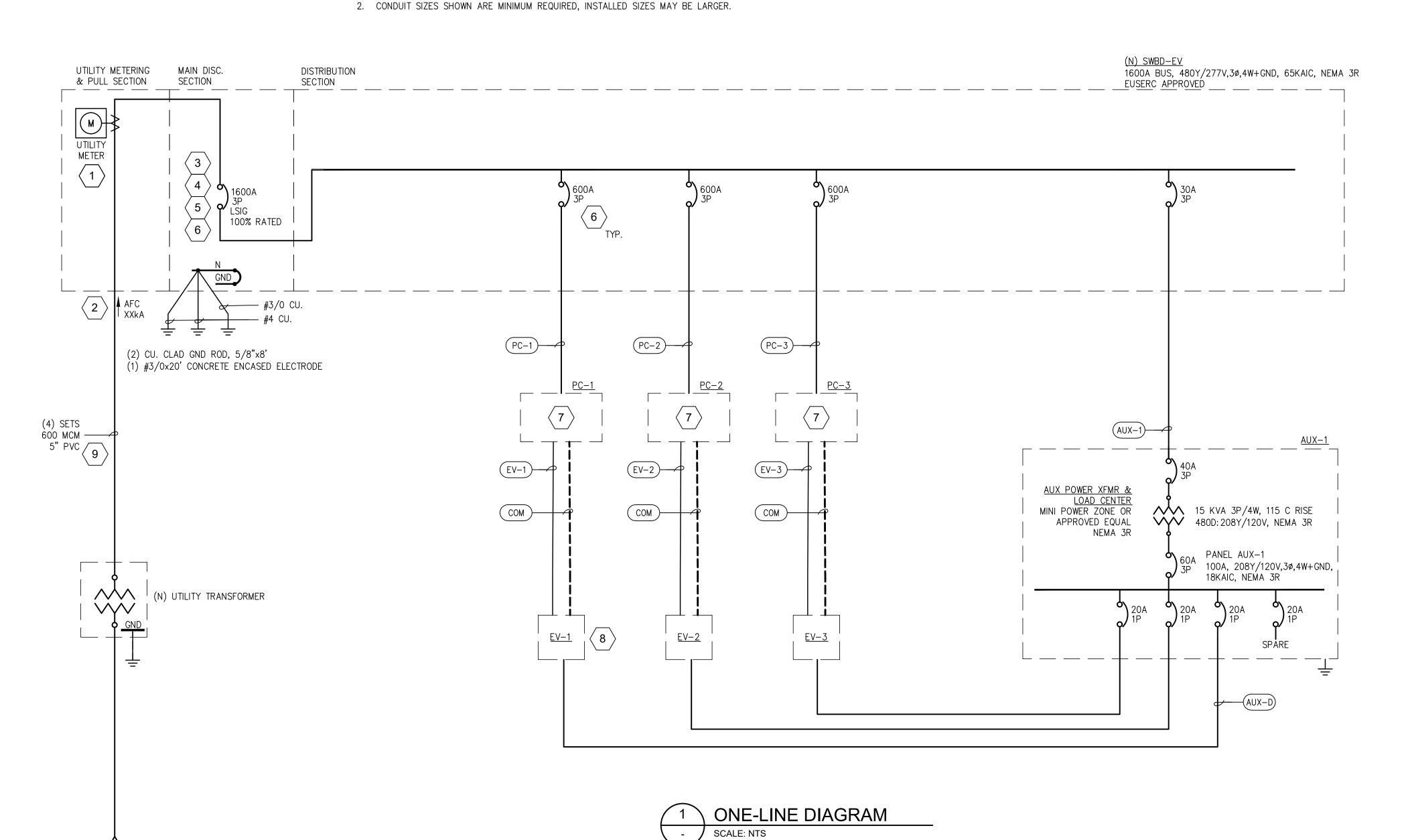
ELECTRIC VEHICLE SERVICE DESIGN LOAD: 1122 KVA AT POI (3ø)

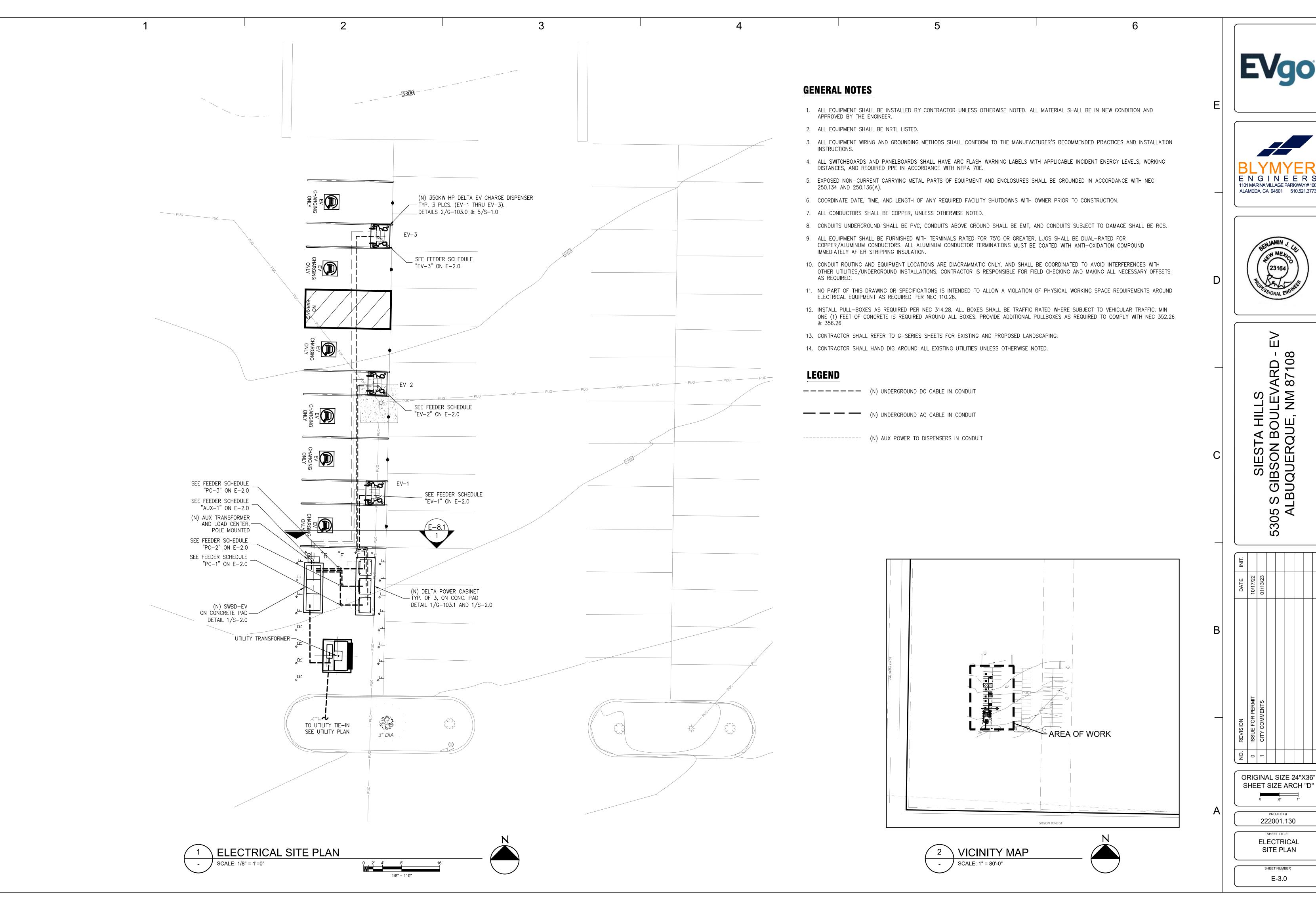
3 DELTA 350KW POWER CABINET (369 KVA EACH) 1

DISPENSER AUX LOADS (15 KVA)

UTILITY SERVICE

1. ALL DC CONDUCTORS SHALL BE COPPER WITH 1000V XHHW—2 INSULATION, UNLESS OTHERWISE NOTED.









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

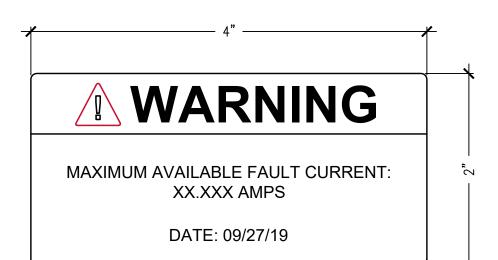
EVGO 5305 S. GIBSON BOULEVARD ALBUQUERQUE, NM 87108 480Y/277 1600 AMP (877) 494-3833

> LASER ENGRAVED PLAQUE WHITE LETTERING ON RED BACKGROUND



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,
- 4. MATERIAL NOTE: ENGRAVED ON OUTDOOR-RATED PLASTIC LAMINATE WITH ADHESIVE BACKING SUITABLE FOR THE ENVIRONMENT.
- 5. APPLICABLE NEC SECTIONS: NEC 110.9



MAXIMUM FAULT CURRENT LABEL SCALE: NTS

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

 5. APPLICABLE NEC SECTIONS: NEC 110.22

AS REQUIRED

EV SYSTEM SERVICE DISCONNECT

MAIN CIRCUIT BREAKER LABEL

ARC FLASH AND SHOCK HAZARD PRESENT APPROPRIATE PPE REQUIRED MIN. PPE REQUIREMENTS

ARC FLASH BOUNDARY INCIDENT ENERGY DESCRIPTION [x.xx] cal/cm² WORKING DISTANCE DESCRIPTION [xx] in **DESCRIPTION** SHOCK HAZARD EXPOSURE **DESCRIPTION** [xxx] VAC INSULATING GLOVE CLASS DESCRIPTION SHOCK HAZARD WHEN COVERS REMOVED

LIMITED APPROACH BOUNDARY 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]

- 1. "TYPICAL LABEL SHOWN, ARC FLASH LABELS TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INCLUDING, SWITCHGEAR, PANELBOARDS, AND CHARGING CABINETS.
- 4"x4" LABEL MAY BE USED AS AN ALTERNATE "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.
- PLACE LABEL ON EQUIPMENT DESIGNATED IN THE ARC FLASH HAZARD ANALYSIS.
- LABELS SHALL BE PROVIDED IN PDF FORMAT TO CONTRACTOR
- MATERIAL: WEATHER AND UV RESISTANT VINYL WITH DURABLE ADHESIVE SUITABLE FOR THE ENVIRONMENT.
- 8. APPLICABLE NEC SECTIONS: NEC 110.16

ARC FLASH HAZARD LABEL

SCALE: NTS

1. PLACE LABEL ON FRONT OF EQUIPMENT IN VISIBLE LOCATION: EV CHARGER CABINETS, SWITCHBOARDS, PANELS, AND METERING ENCLOSURES.

2. BLACK BACKGROUND, WHITE LETTERING

5. APPLICABLE NEC SECTIONS: NEC 408.4(B)

TEXT: MIN. 1/2" HEIGHT, ALL CAPITAL LETTERS ARIAL OR SIMILAR FONT, NON-BOLD

MATERIAL NOTE: ENGRAVED ON OUTDOOR-RATED PLASTIC LAMINATE WITH ADHESIVE BACKING SUITABLE FOR THE ENVIRONMENT.

AS REQUIRED

EQUIPMENT ID

POWER SUPPLIED FROM: SOURCE OF POWER

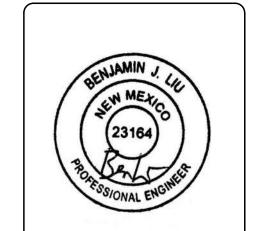
L ALL SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE NAME OF THE EQUIPMENT AND SOURCE OF SUPPLY.

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

EQUIPMENT IDENTIFICATION LABEL







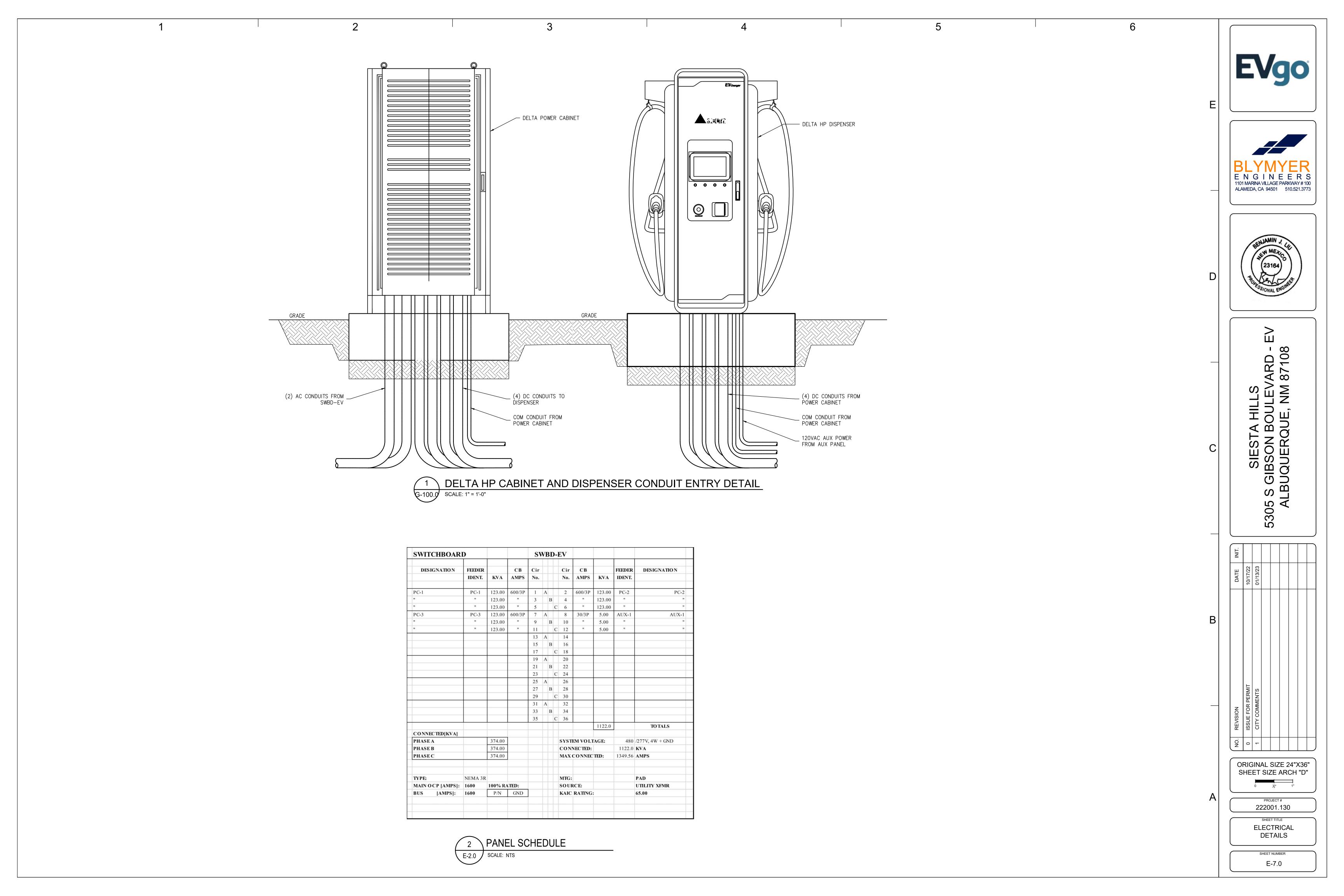
SIESTA HILLS GIBSON BOULE 3UQUEPON 17 305 A

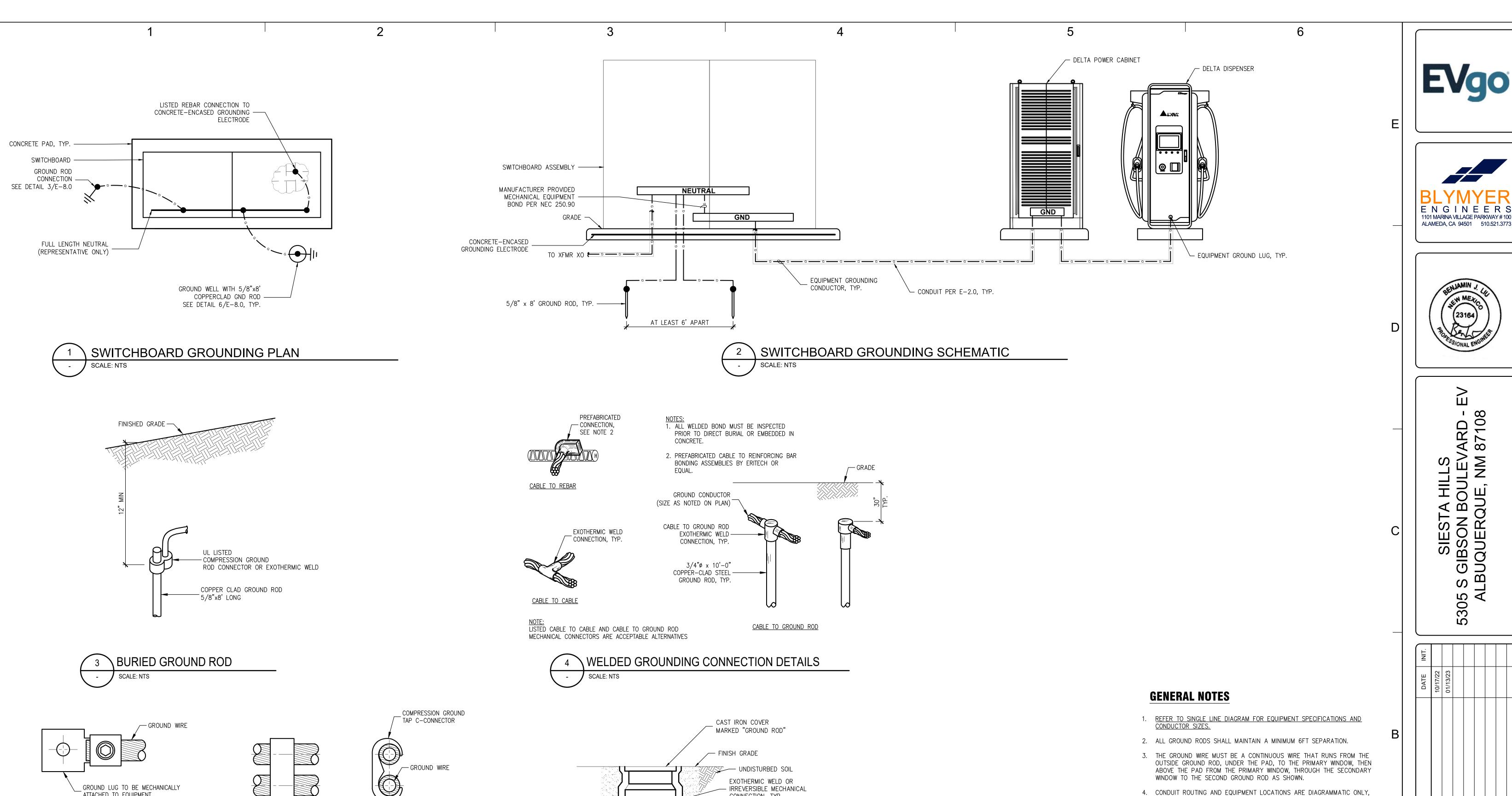
ORIGINAL SIZE 24"X36" SHEET SIZE ARCH "D"

222001.130

WARNING SIGNS

E-6.0





CONNECTION, TYP.

— 6" DRAIN ROCK

5/8"ø x 8' LONG CU ROD

PRECAST GROUND WELL

RATED FOR CONDITIONS OF USE.

- BARE COPPER WIRE SIZED PER PLANS, TYP.

BACKFILL

GROUND ROD

GROUND ROD WELL

ATTACHED TO EQUIPMENT

TYP., SEE NOTE 2

STRUCTURAL STEEL

CABLE TO VERTICAL STEEL

COMPRESSION LUG WITH BOLTED

GROUND CONDUCTOR, SIZE

AS NOTED ON PLAN, TYP.

SCALE: NTS

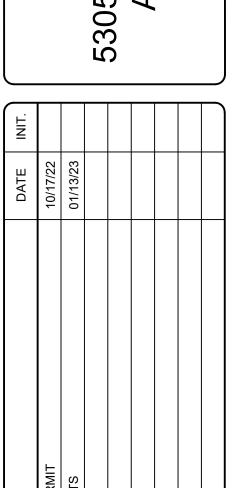
GROUNDING CONNECTION DETAILS

- CONNECTION TO VERTICAL SURFACE,

— GROUND CONNECTOR

NOTE: BURNDY HYGROUND FITTING OR SIMILAR

- 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.
- 5. 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.
- 6. ALL WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED PRACTICES.
- 7. 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.
- 8. ALL GROUNDING ELECTRODE CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELD PROCESS, OR UL LISTED IRREVERSIBLE MECHANICAL CONNECTORS, SUITABLE FOR ITS USE.
- 9. EQUIPMENT SIZES SHOWN ARE TYPICAL REFER TO SUBMITTAL DRAWINGS FOR ACTUAL SIZES.
- 10. 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 5Ω .



/ARD -87108

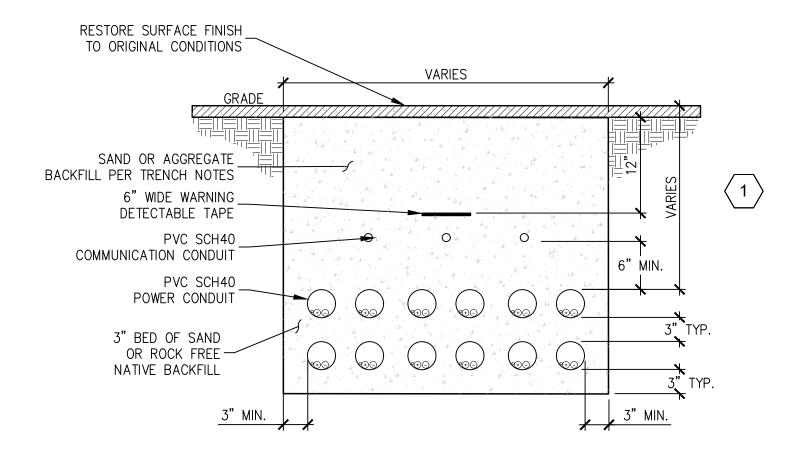
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ORIGINAL SIZE 24"X36" SHEET SIZE ARCH "D"

222001.130

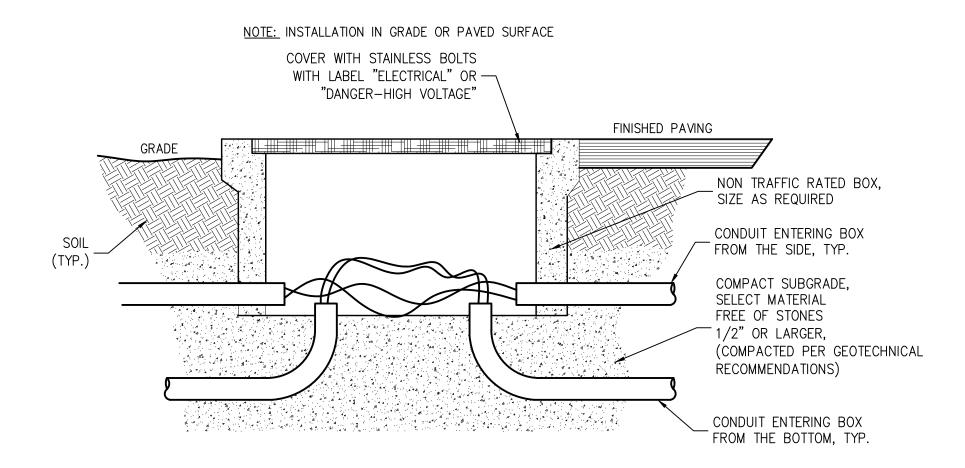
GROUNDING DETAILS

E-8.0

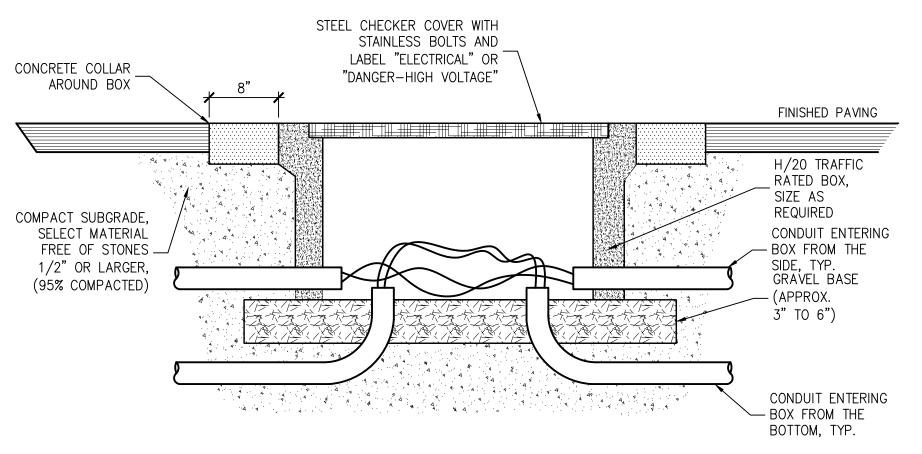


1 ELECTRICAL TRENCH

SCALE: 1" = 1'-0"







3 TRAFFIC RATED PULLBOX < 600V
- SCALE: NTS



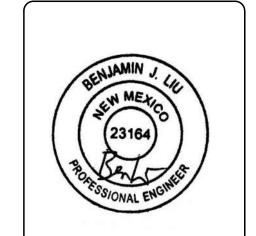
TRENCH NOTES

- 1. TRENCH BACKFILL SHOULD BE PLACED IN HORIZONTAL LIFTS AND COMPACTED TO 85% RELATIVE COMPACTION, AS EVALUATED BY ASTM D698.
- COMPACTION MEANS AND METHODS SHALL BE DETERMINED BY TRENCHING CONTRACTOR.
- TRENCH CONSTRUCTION SHALL COMPLY WITH OSHA REQUIREMENTS.
 AGGREGATE BASE AND THE UPPER 12" OF SUBGRADE BENEATH PAVEMENT AREAS SHOULD BE COMPACTED TO 95% RELATIVE COMPACTION, AS EVALUATED BY ASTM D698.
- PROVIDE MIN 12" SEPARATION FROM ANY EXISTING UTILITIES, IF APPLICABLE.
 SOILS CONSISTING OF ROCKS NO LONGER THAN 0.5" IN DIAMETER SHALL BE CONSIDERED ROCK FREE.
- 7. CONTRACTOR SHALL HAND DIG AROUND ALL UTILITIES.

KEYED NOTES

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

BLYMYER
ENGINEERS
1101 MARINA VILLAGE PARKWAY # 100
ALAMEDA, CA 94501 510.521.3773



SIESTA HILLS 5305 S GIBSON BOULEVARD -ALBUQUERQUE, NM 87108

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	ISSUE FOR PERMIT	10/17/22	
_	CITY COMMENTS	01/13/23	

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

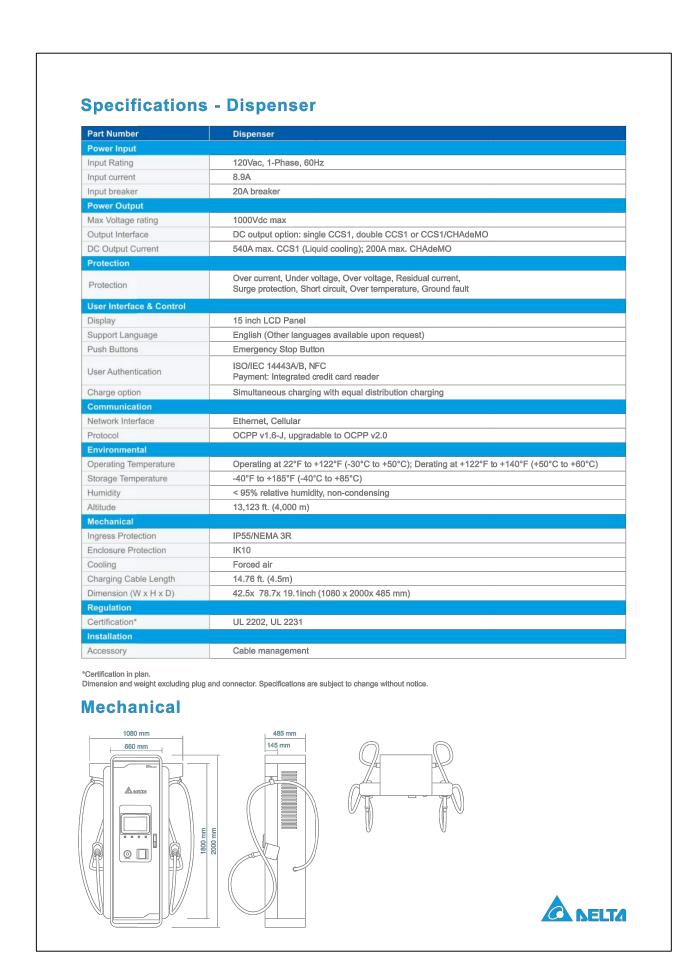
PROJECT # 222001.130

SHEET TITLE

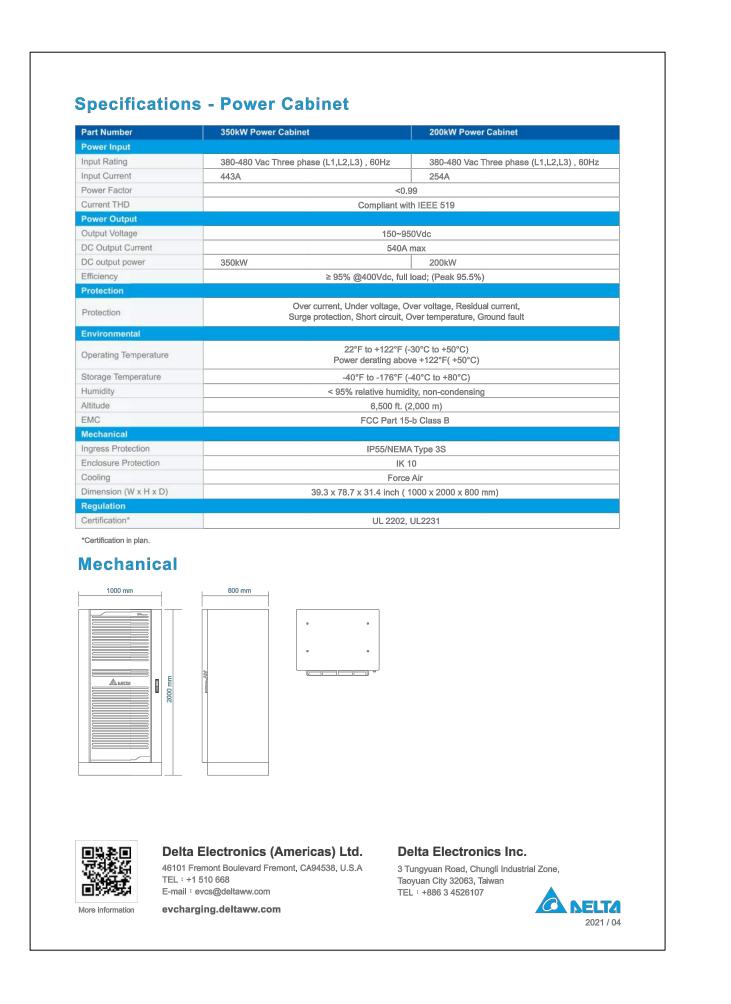
TRENCH DETAILS

SHEET NUMBER
E-8.1













/ARD -87108

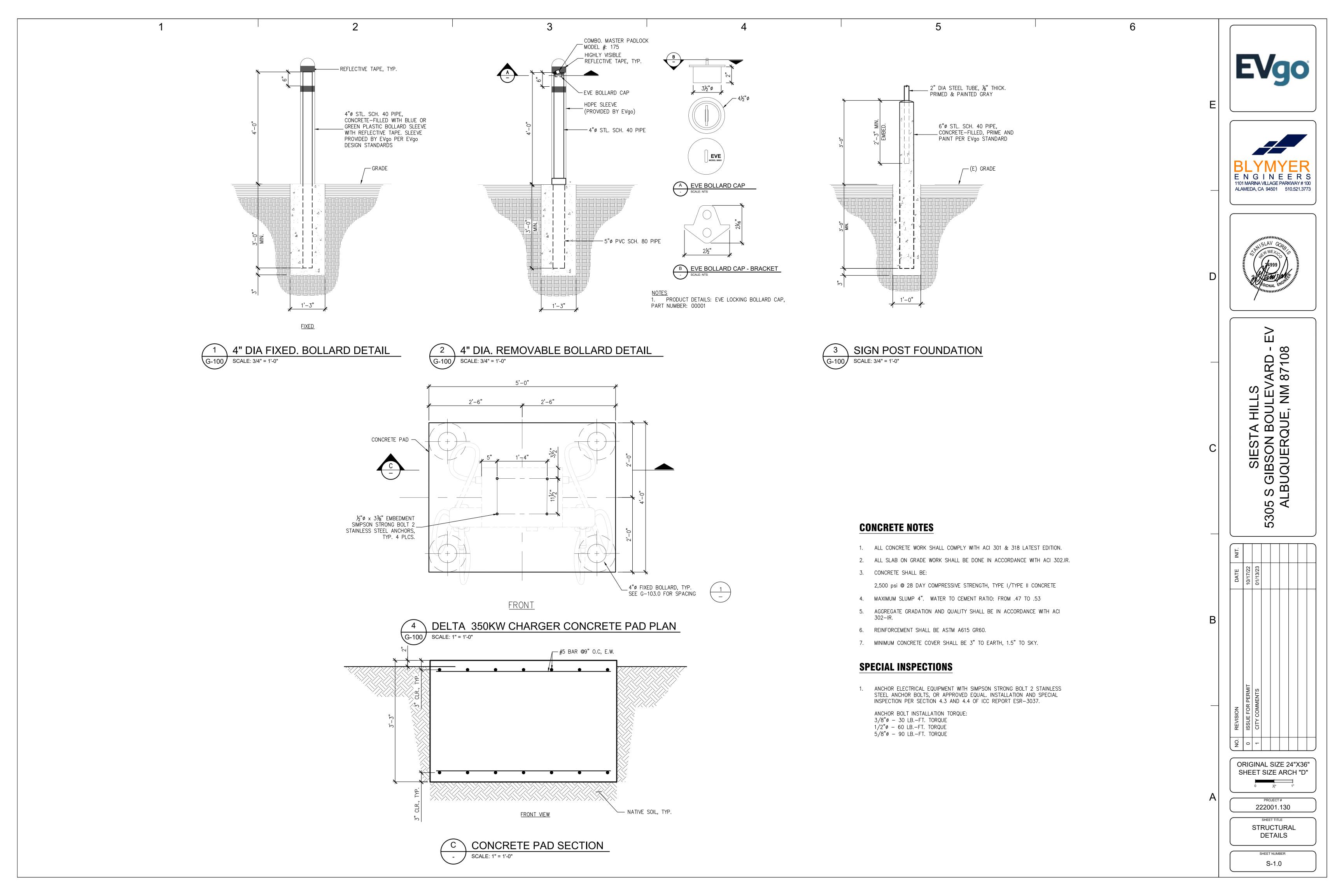
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ORIGINAL SIZE 24"X36" SHEET SIZE ARCH "D"

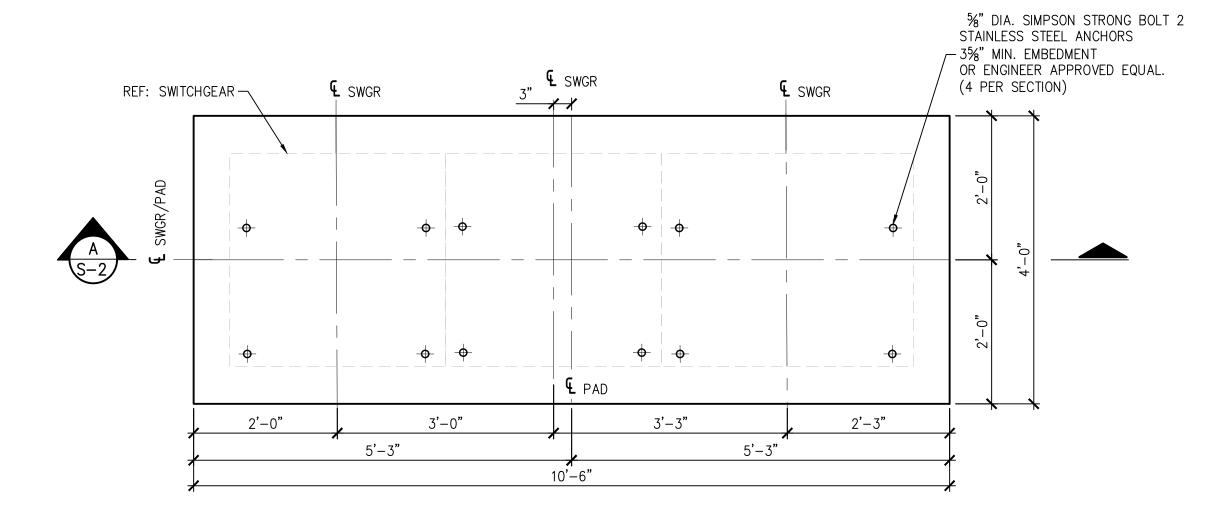
PROJECT# 222001.130

SHEET TITLE **EQUIPMENT SPECIFICATIONS**

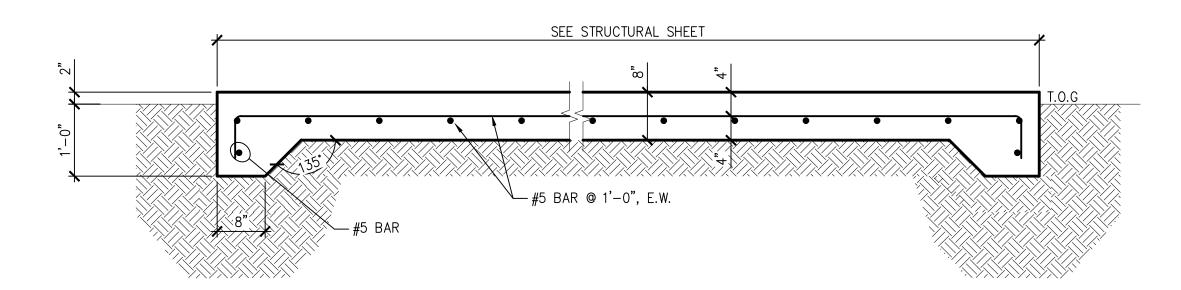
E-10.0



1 DELTA CABINET CONCRETE PAD PLAN G-100 SCALE: 3/4" = 1'-0"









CONCRETE NOTES

- 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.IR.
- 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-IR.
- 6. REINFORCEMENT SHALL BE ASTM A615 GR60.
- 7. MINIMUM CONCRETE COVER SHALL BE 3" TO EARTH, 1.5" TO SKY.

SPECIAL INSPECTIONS

1. 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"ø – 30 LB.-FT. TORQUE 1/2"ø – 60 LB.-FT. TORQUE 5/8"ø – 90 LB.-FT. TORQUE







SIESTA HILLS 5305 S GIBSON BOULEVARD -ALBUQUERQUE, NM 87108

NO. REVISION DATE 0 ISSUE FOR PERMIT 10/17/22 1 CITY COMMENTS 01/13/23 1 CITY COMMENTS 01/13/23	III	22	23			
DR PERMIT MMENTS	DATE	10/17/	01/13/			
	7	DR PERMIT	MMENTS			

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

PROJECT # 222001.130

SHEET TITLE
STRUCTURAL
DETAILS

S-2.0