



PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
INSTALLATION OF ELECTRIC VEHICLE LEVEL 2 CHARGING EQUIPMENT
555 COUNTY CENTER, REDWOOD CITY, CA 94063

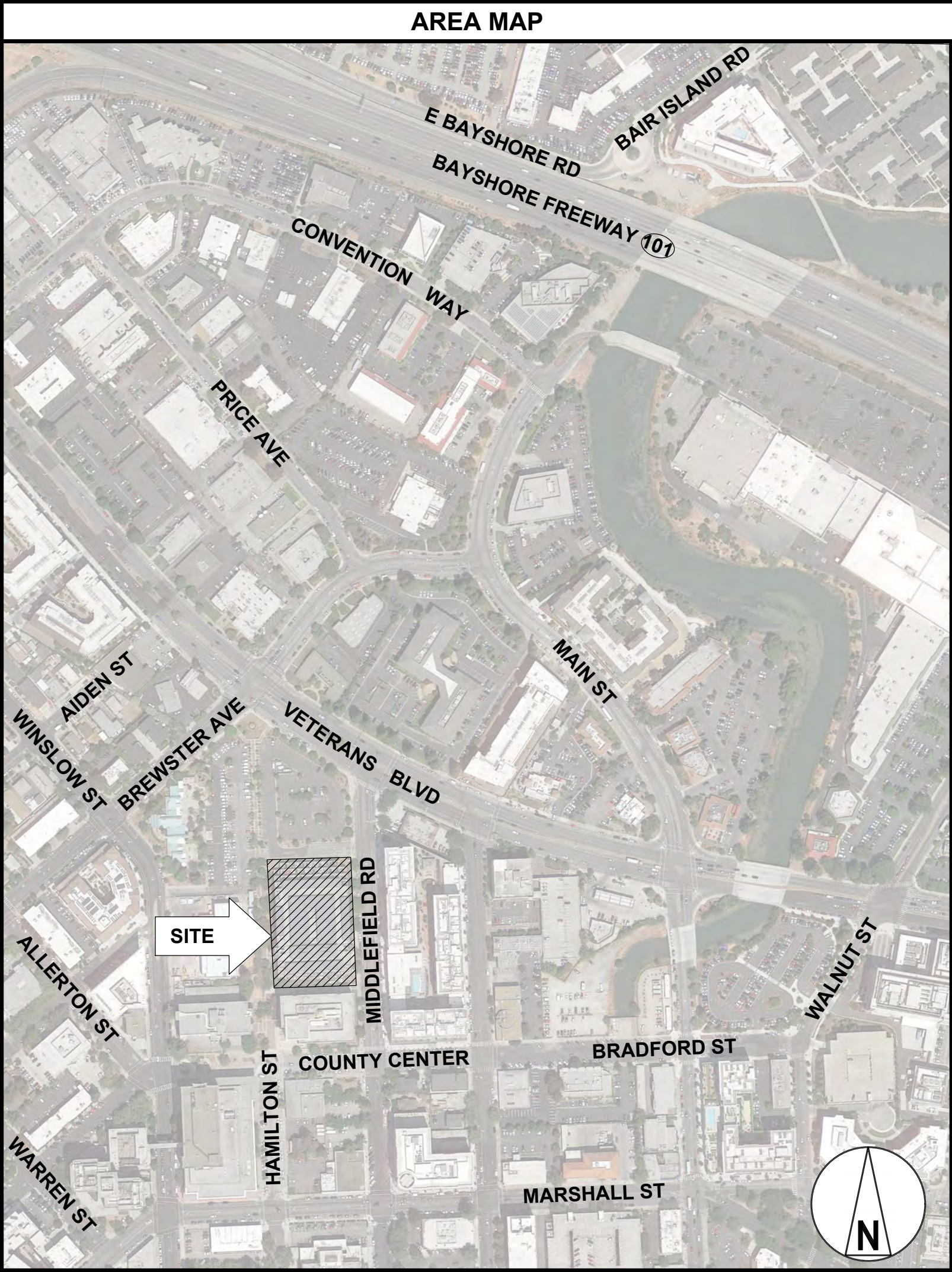
SITE INFORMATION	
EV SITE ADDRESS: 555 COUNTY CENTER, REDWOOD CITY, CA 94063	POWER COMPANY: PG&E
PROPERTY OWNER: COUNTY OF SAN MATEO 555 COUNTY CENTER, REDWOOD CITY, CA 94063 (650) 363-4343	COUNTY: SAN MATEO LATITUDE (NAD83): 37° 29' 20.3928" N 37.48899800° LONGITUDE (NAD83): 122° 13' 47.607" W -122.22989120°

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: 2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA ELECTRICAL CODE 2017 NATIONAL ELECTRICAL CODE IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT TEAM	
LEAD CIVIL ENGINEER: DAVID MOWRY (659) 326-1400 DMOWRY@BCF-ENGR.COM	LEAD ELECTRICAL ENGINEER: BRIAN DUFFY (559) 326-1400 BDUFFY@BCF-ENGR.COM
PG&E PROJECT MANAGER JUSTIN CHEUNG (408) 482-7231 JW1V@PGE.COM	CEI PROJECT MANAGER OMAR GONZALEZ (408) 799-4065 OMAR_GONZALEZ@CEI.COM

FLOOD HAZARD AREA NOTE
1. PROJECT SITE LOCATED WITHIN FLOOD HAZARD ZONE X (0.2 PCT ANNUAL CHANCE FLOOD HAZARD) AND 'ZONE AE' (WITH BASE FLOOD ELEVATION OF 10') 2. FIRM PANEL: 06081C0301F 3. MAP EFFECTIVE DATE: APRIL 5, 2019 4. MAP IS COUNTYWIDE, PANEL PRINTED 5. UTILITY METER INSTALLED INSIDE OF THE PARKING GARAGE AND WITHIN FLOOD ZONE X. 6. LEVEL 2 EV CHARGES INSTALLED ON THE 2ND, 3RD, AND 4TH LEVEL OF THE PARKING GARAGE ABOVE THE BASE FLOOD ELEVATION OF 10'. 7. SEE SHEET C1.1 FOR FLOOD ZONE BOUNDARIES.

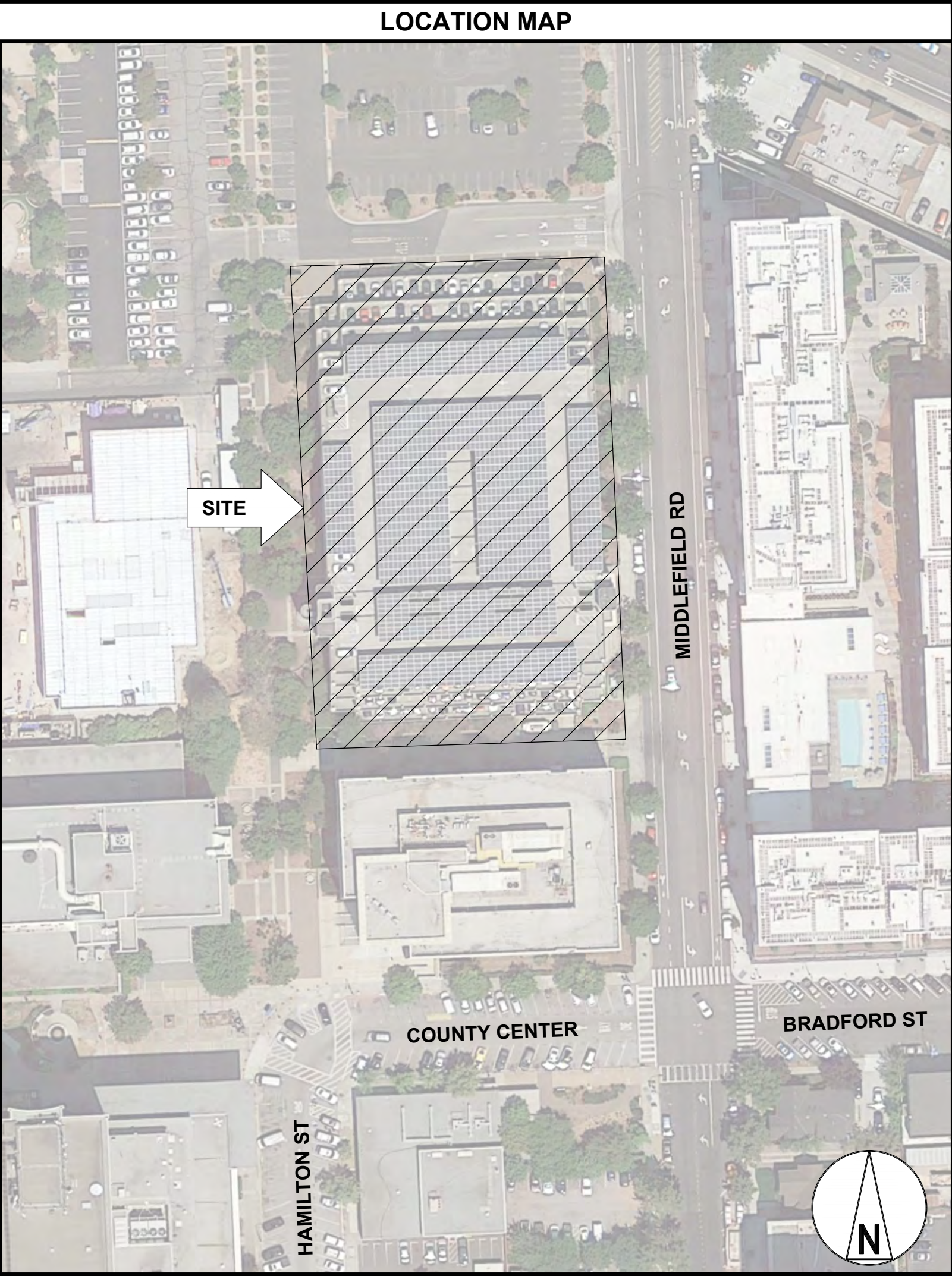
CONTRACTOR NOTE
CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.



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UNDERGROUND SERVICE ALERT
UTILITY NOTIFICATION CENTER OF CALIFORNIA
811 OR 1-800-227-2600
3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION




DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS &
CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE
ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING
WITH THE WORK.


PROJECT DESCRIPTION		
<ul style="list-style-type: none">INSTALL (60) LEVEL 2 CHARGING PORTS FOR USE BY FLEET VEHICLES ONLYINSTALL (1) UTILITY METERIMPACTED EXISTING PARKING = 60 TOTAL SPACES; 60 STANDARD SPACESPROPOSED CHARGING = 60 TOTAL SPACES; 60 STANDARD EVSECBC 11B-228.3.2 EXCEPTION #1: EVCS NOT AVAILABLE TO THE GENERAL PUBLIC AND INTENDED FOR USE BY A DESIGNATED VEHICLE OR DRIVER SHALL NOT BE REQUIRED TO COMPLY WITH CBC SECTION 11B-228.3.2NO POWER RESTORE FUNCTIONALITY AND NO HAZMAT CONCERNS.		

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ZONING INFORMATION	
PERMITTING JURISDICTION: CITY OF REDWOOD CITY	
ZONING DISTRICT: P (PLANNED COMMUNITY DISTRICT)	
ENGINEER OF RECORD	
CIVIL DAVID MOWRY PE # 54,414 BLAIR CHURCH & FLYNN CONSULTING ENGINEERS	ELECTRICAL BRIAN DUFFY PE # E 22220 BLAIR CHURCH & FLYNN CONSULTING ENGINEERS



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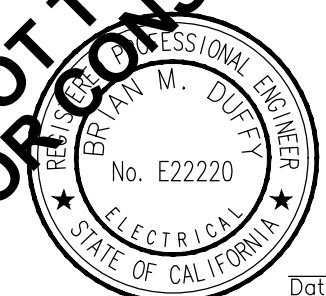


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PROJECT NO:		19-1-22141-00
DRAWN BY:		ERIK OROZCO
CHECKED BY:		ROBERT FRANCIS
0	04/27/2020	ISSUED FOR 100% REVIEW
REV	DATE	DESCRIPTION



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FOR CONSTRUCTION



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555 COUNTY CENTER,
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SHEET TITLE
TITLE SHEET &
PROJECT DATA

SHEET NUMBER
T1.0

ELECTRICAL NOTES CONT.

15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC/CEC, NEMA AND IEEE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
26. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
27. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 - 1990. THE CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
28. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC/CEC.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. THE CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
31. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
32. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.

REINFORCED CONCRETE NOTES

1. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS UNLESS OTHERWISE NOTED; CONTINUOUS INSPECTION IS NOT REQUIRED.
SLUMP: 4" MIN./6" MAX.
AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME
2. REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
3. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI-318 FOR MINIMUM CLEARANCES.

REINFORCED CONCRETE NOTES CONT.

4. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
5. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
9. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL - 2004, PUBLICATION SP-66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-08.

GENERAL SITE WORK NOTES

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR, ETC).

1.3 SITE MAINTENANCE AND PROTECTION:

- A. KEEP SITE FREE OF ALL PONDING WATER.
- B. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- C. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- D. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- E. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.0 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO 200 (0.075 MM)	3 TO 15

- 2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).

- 2.3 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.

GENERAL SITE WORK NOTES CONT.

- 2.4 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45), MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- E. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- F. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- G. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.

- H. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.

- E. WHENEVER TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PACED UNTIL THE REQUIREMENTS ARE MET, UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTIONS NECESSARY SUCH AS DRYING, ADDING WATER, INCREASING THE COMPACTIVE EFFORT TO MEET COMPACTION REQUIREMENTS

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.

GENERAL SITE WORK NOTES CONT.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

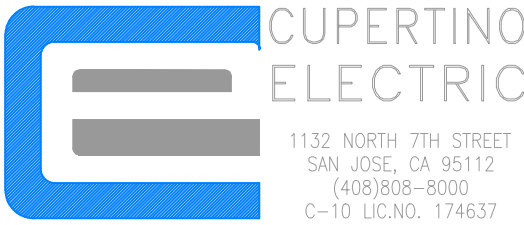
3.6 ASPHALT PAVING ROAD:

CALIFORNIA STANDARD SPECIFICATIONS
SECTION 39 - CALIFORNIA DEPARTMENT OF TRANSPORTATION PAVEMENT

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.

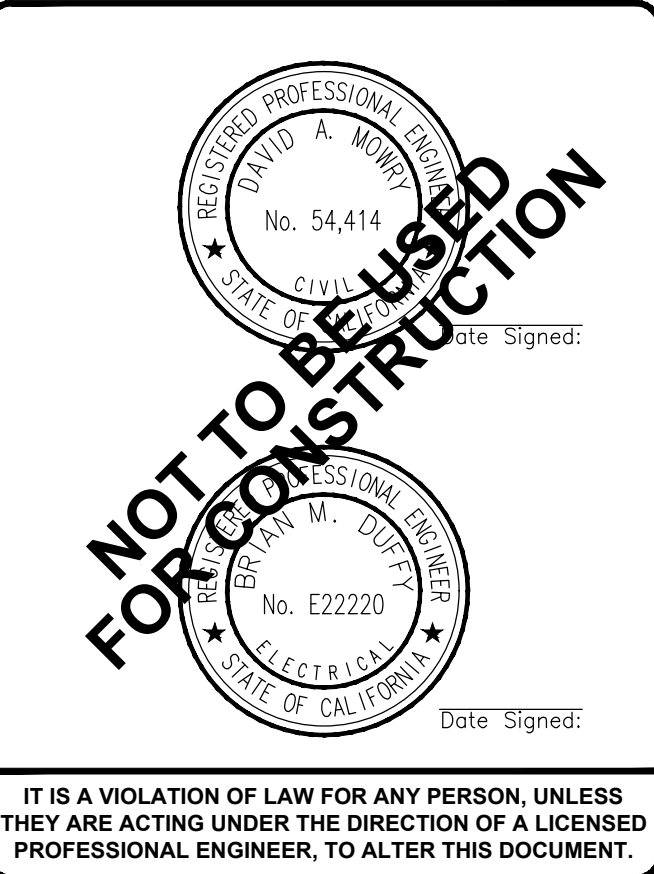


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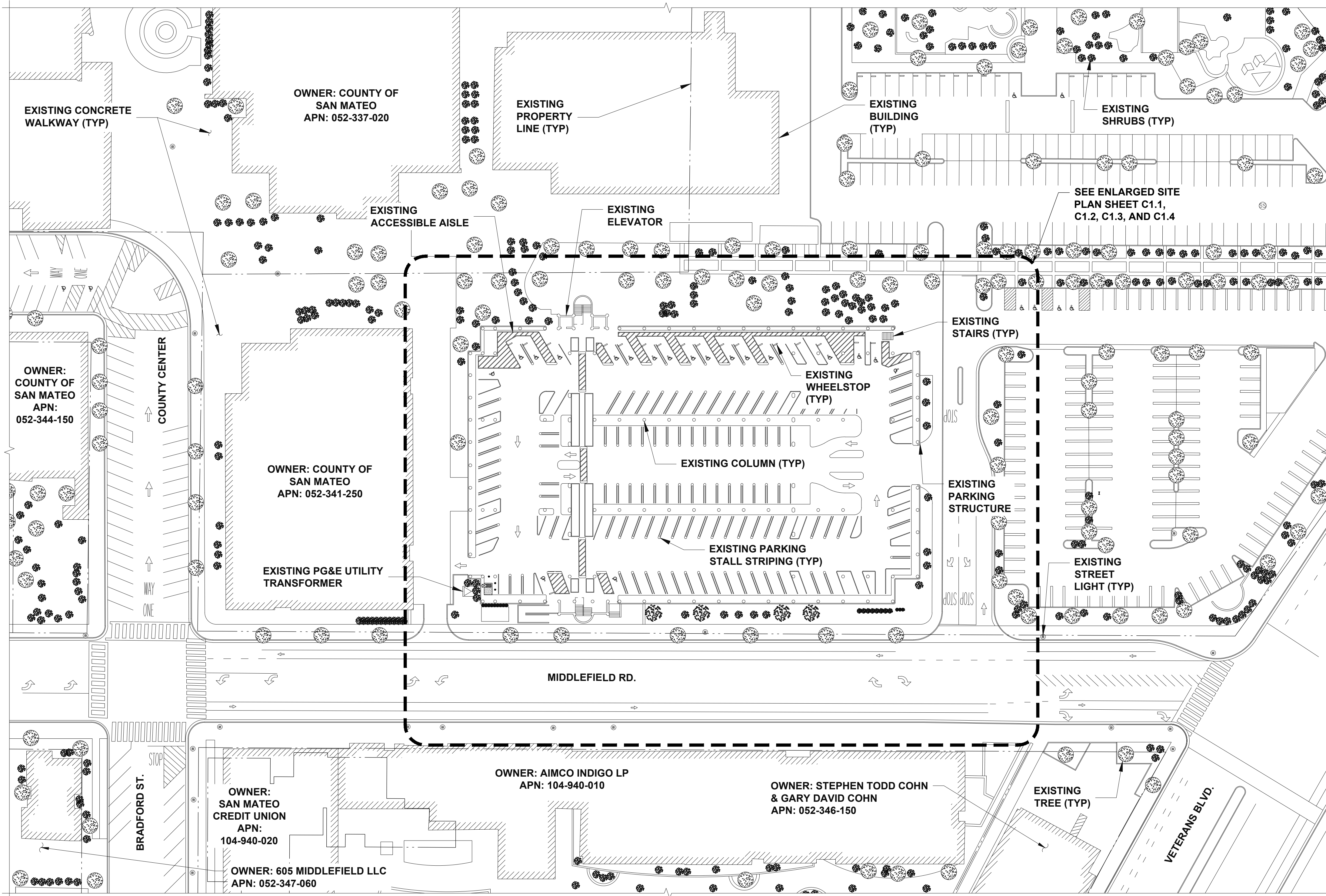
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GENERAL NOTES

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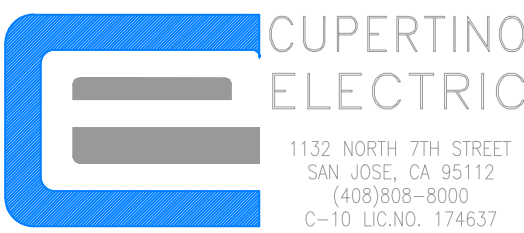


CHARGING TABULATION	
TYPE OF STALL	STALLS
PROPOSED EV CHARGING STALLS	
FLEET ELECTRIC VEHICLE	60
TOTAL	60

BILL OF MATERIALS		
MATERIAL	UNIT	QUANTITY
WIRE		
#4 CONDUCTOR THWN-2	LF	2,111
#6 CONDUCTOR THWN-2	LF	12,200
3/0 CONDUCTOR THWN-2	LF	2,410
#6 CONDUCTOR GRN INSULATION THWN-2	LF	643
#8 CONDUCTOR GRN INSULATION THWN-2	LF	3,084
#2 CONDUCTOR GRN INSULATION THWN-2	LF	744
CONDUIT		
1 1/4" RMC	LF	3,727
2" RMC	LF	678
EQUIPMENT		
PGEHP600A/480/277V METER	EACH	1
200A 480/277V ENCLOSED BREAKER	EACH	3
112.5 KVA 480-208/120V STEPDOWN TRANSFORMER	EACH	1
150 KVA 480-208/120V STEPDOWN TRANSFORMER	EACH	2
400A 208/120V DISTRIBUTION PANEL	EACH	3
EQUIPMENT FOUNDATION	SF	44
ANCHORED BOLLARD	EACH	12
JUNCTION BOX	EACH	31
NOTE: ALL QUANTITIES ARE ESTIMATED AND SHOULD BE VERIFIED BY THE CONTRACTOR		



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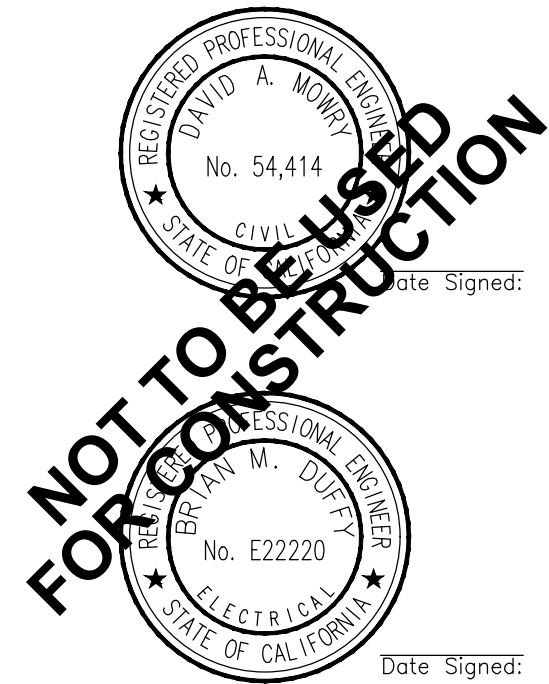
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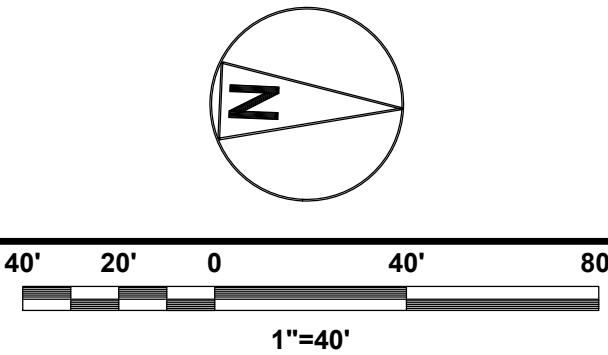
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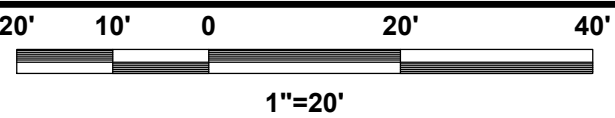
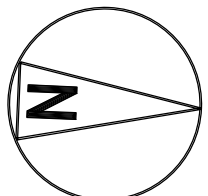
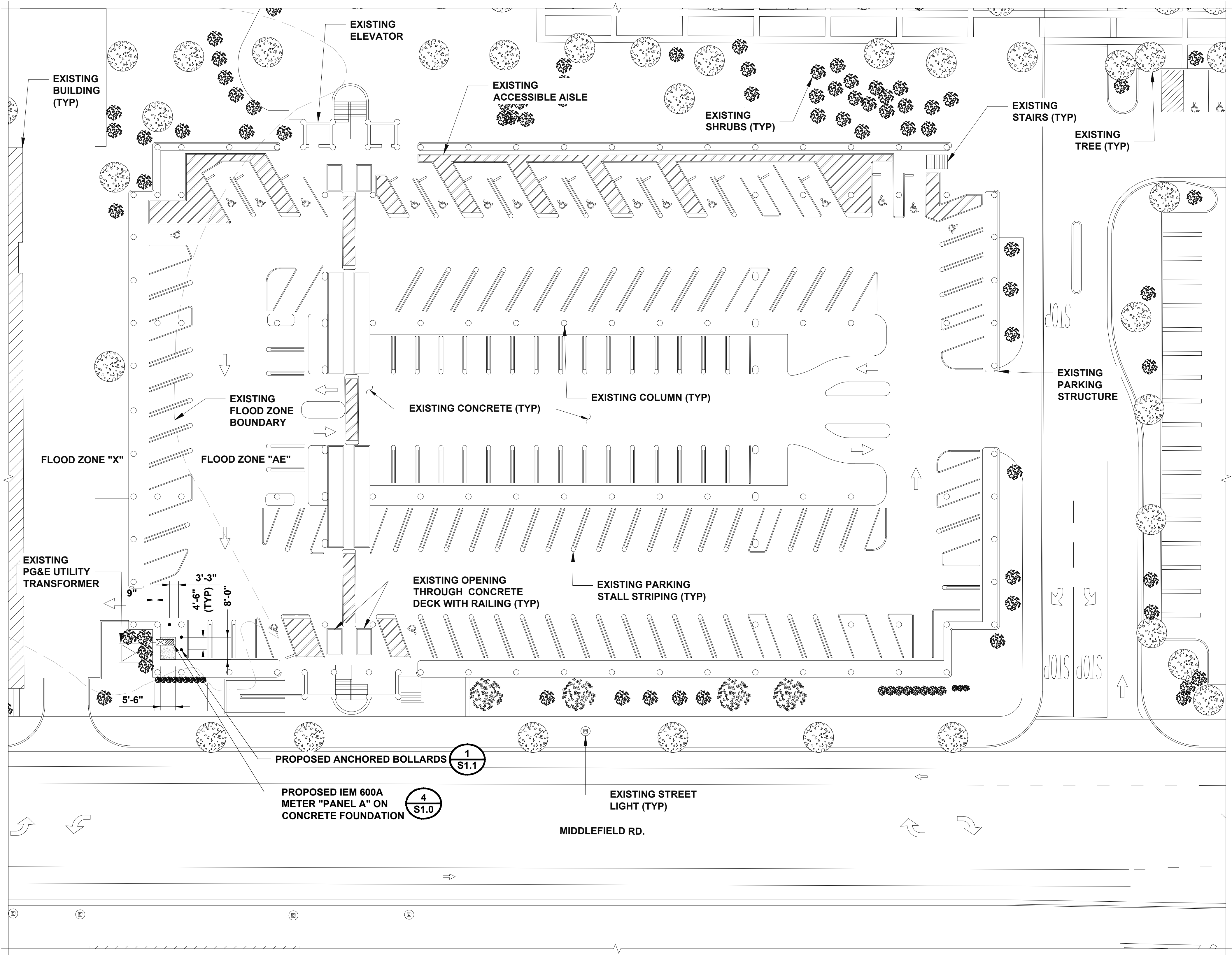
PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C1.0

OVERALL SITE PLAN

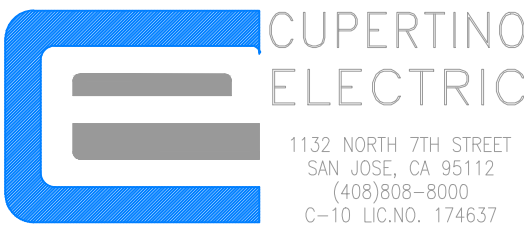




ENLARGED SITE PLAN - GROUND LEVEL



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408) 808-8000
C-10 LIC. NO. 174637



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Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
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Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

REV	DATE	DESCRIPTION
0	04/27/2020	ISSUED FOR 100% REVIEW



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FOR CONSTRUCTION**

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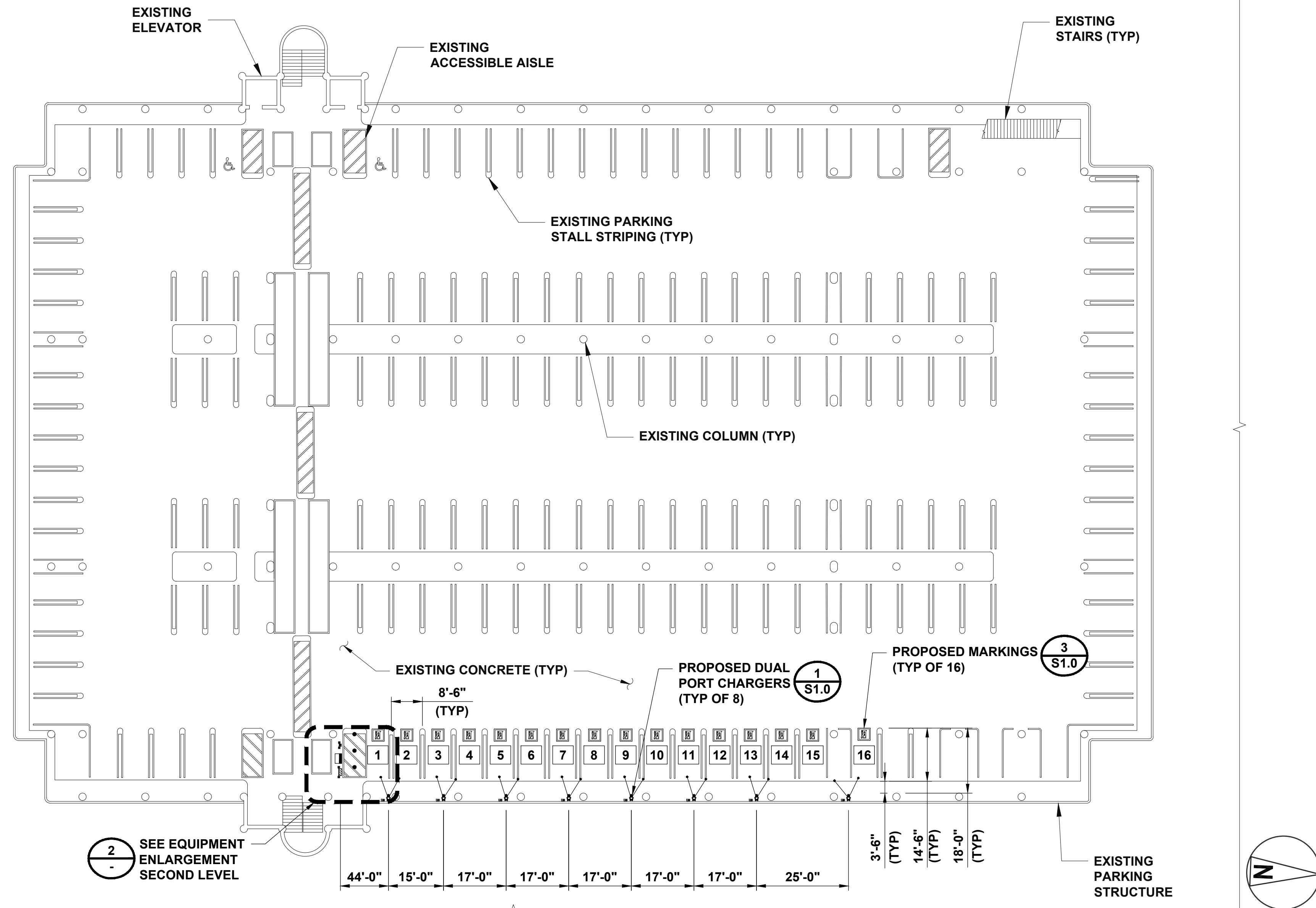
PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

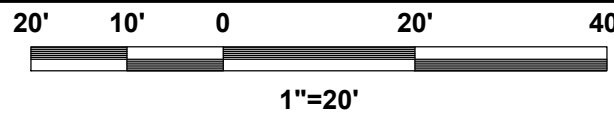
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ENLARGED SITE PLAN -
GROUND LEVEL

SHEET NUMBER

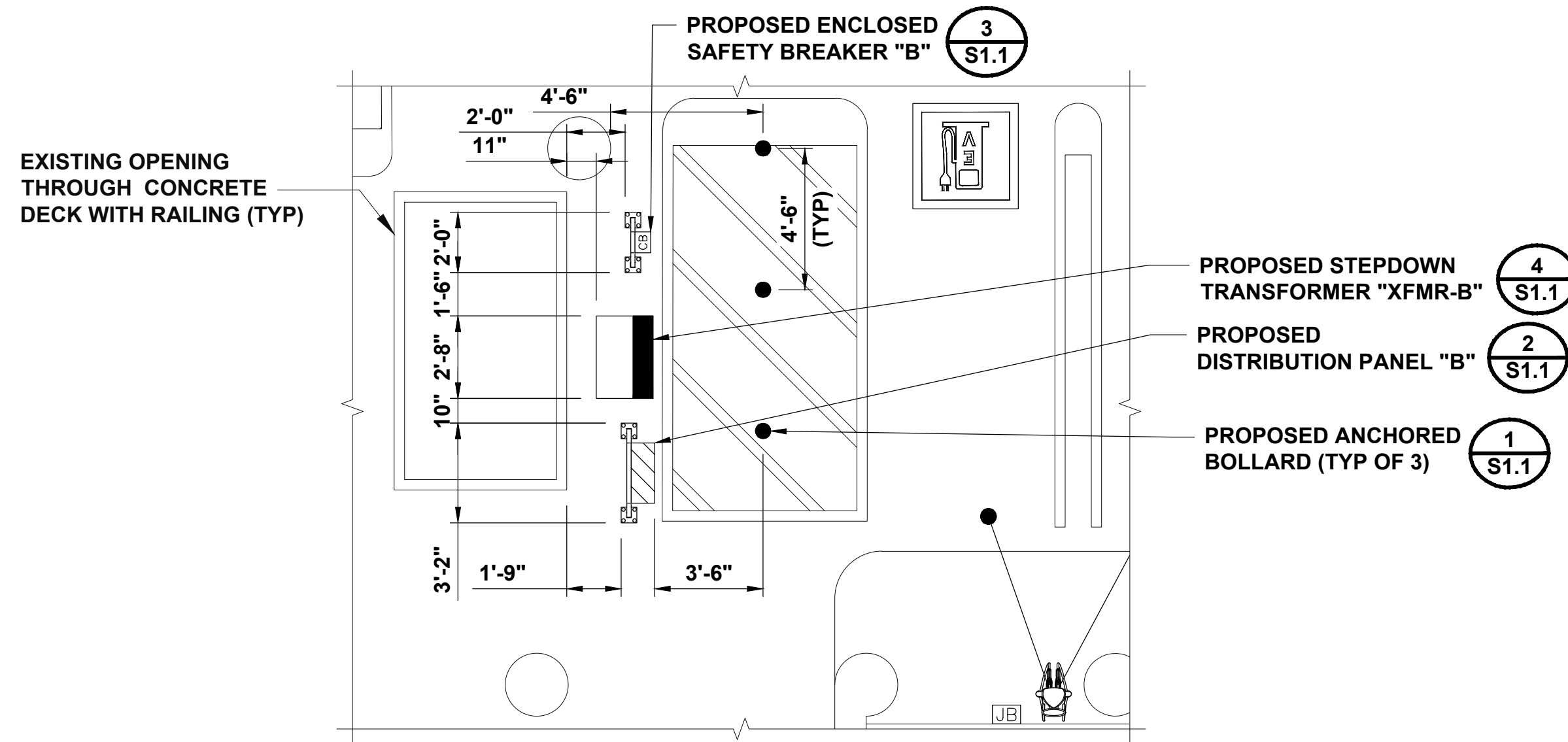
C1.1



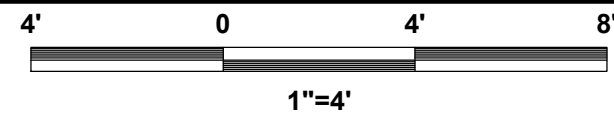
ENLARGED SITE PLAN - SECOND LEVEL



1



EQUIPMENT ENLARGEMENT SECOND LEVEL



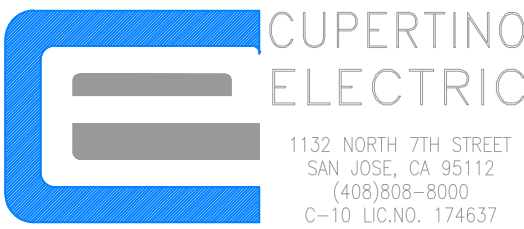
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PROJECT AREA STALL COUNT	
EXISTING STALL COUNT	16
PROPOSED STALL COUNT	16

PROPOSED CHARGEPOINT DISPENSER		
CHARGE PORT NUMBER	SINGLE/DUAL PORT	WALL/PEDESTAL MOUNT
1/2	DUAL	PEDESTAL
3/4	DUAL	PEDESTAL
5/6	DUAL	PEDESTAL
7/8	DUAL	PEDESTAL
9/10	DUAL	PEDESTAL
11/12	DUAL	PEDESTAL
13/14	DUAL	PEDESTAL
15/16	DUAL	PEDESTAL



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PROJECT NO:	19-1-22141-00
DRAWN BY:	ERIK OROZCO
CHECKED BY:	ROBERT FRANCIS

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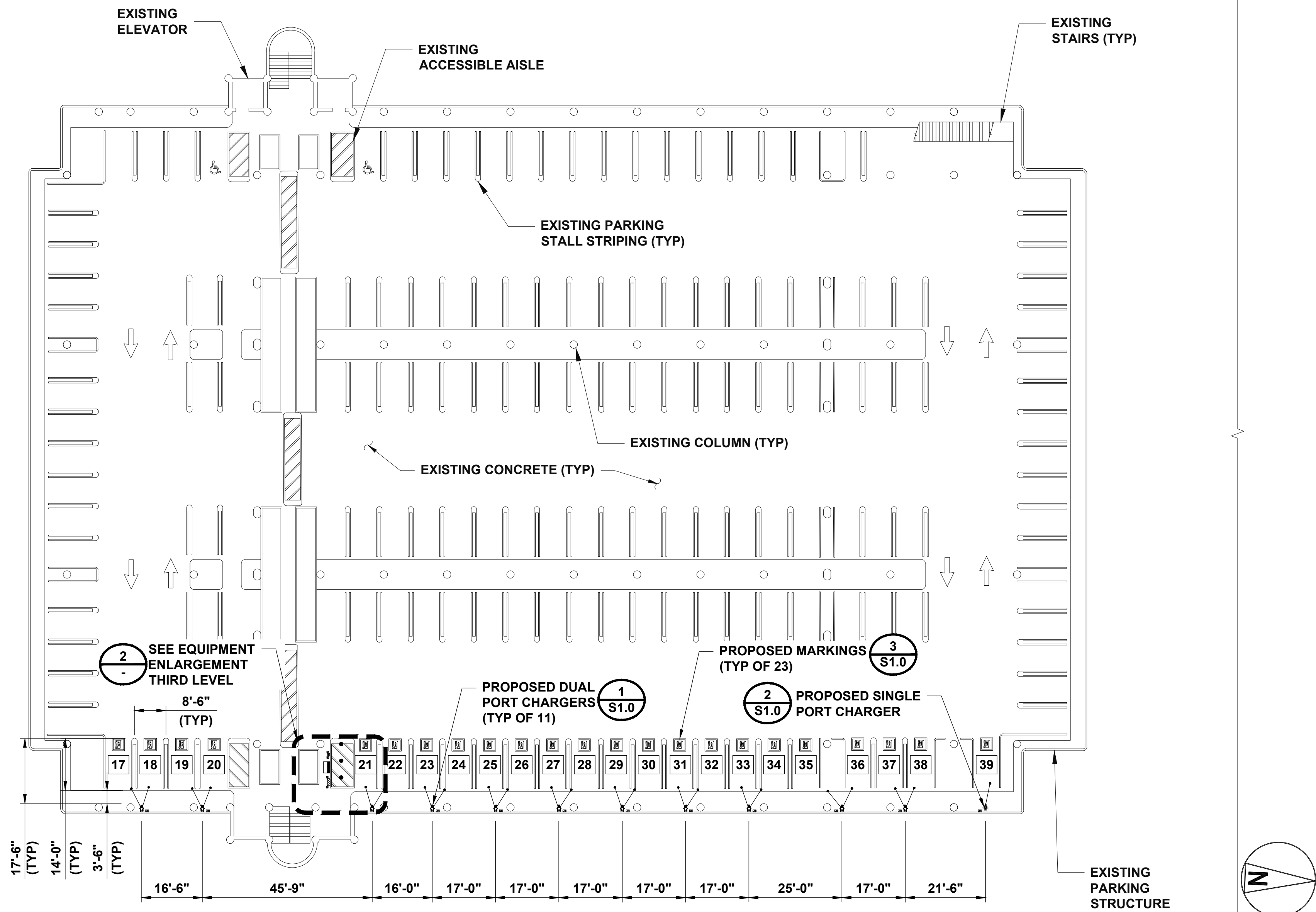
PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

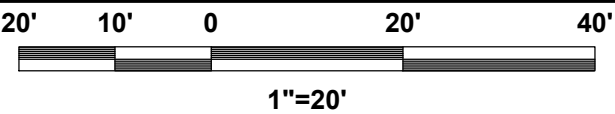
SHEET TITLE
ENLARGED SITE PLAN -
SECOND LEVEL

SHEET NUMBER

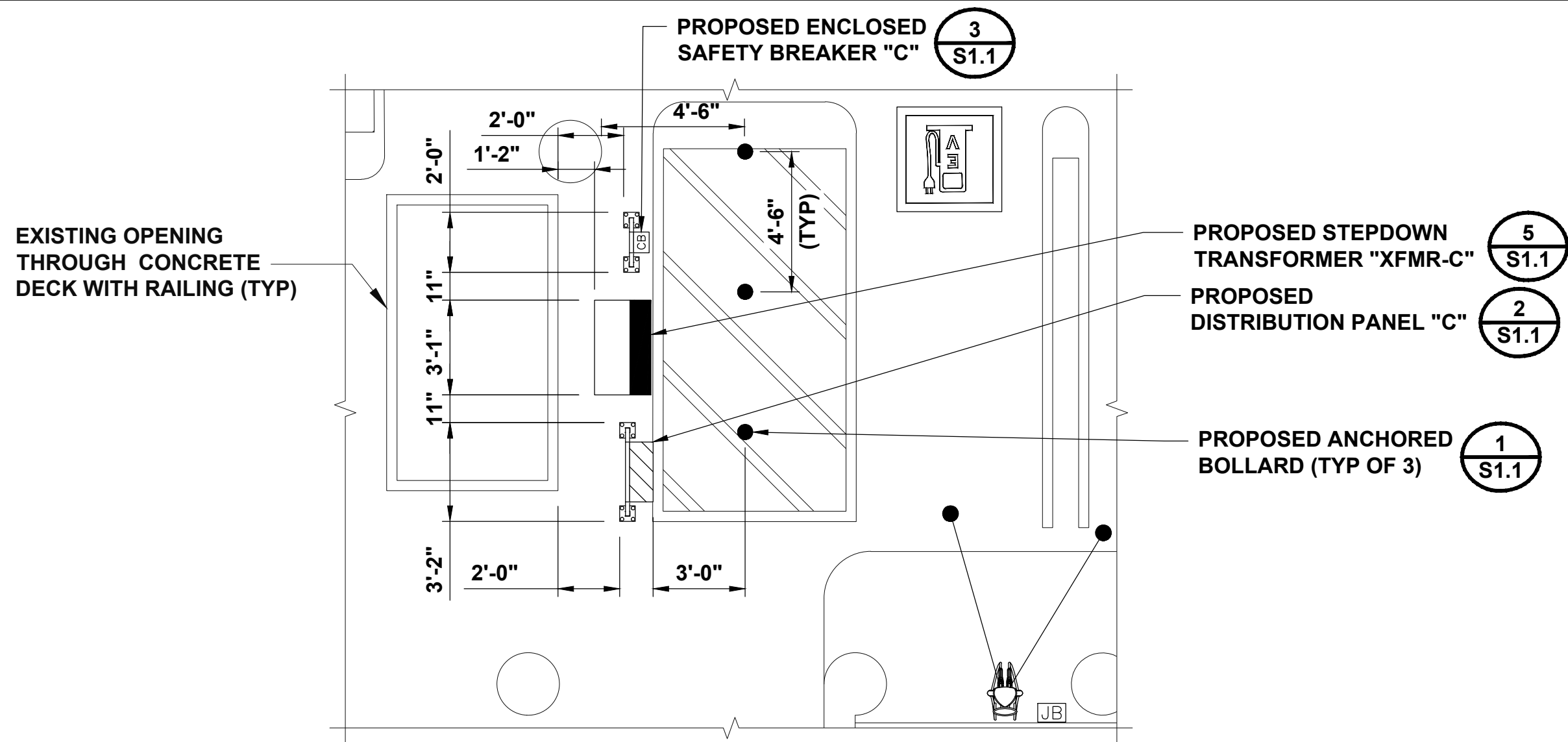
C1.2



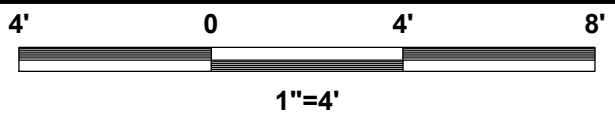
ENLARGED SITE PLAN - THIRD LEVEL



1



EQUIPMENT ENLARGEMENT THIRD LEVEL



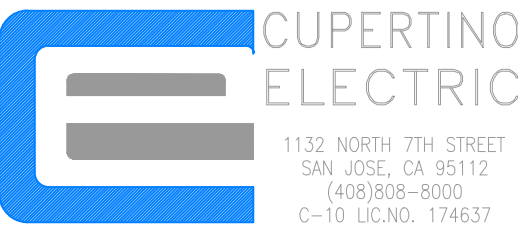
2

PROJECT AREA STALL COUNT		
EXISTING STALL COUNT	23	
PROPOSED STALL COUNT	23	

PROPOSED CHARGEPOINT DISPENSER		
CHARGE PORT NUMBER	SINGLE/DUAL PORT	WALL/PEDESTAL MOUNT
17/18	DUAL	PEDESTAL
19/20	DUAL	PEDESTAL
21/22	DUAL	PEDESTAL
23/24	DUAL	PEDESTAL
25/26	DUAL	PEDESTAL
27/28	DUAL	PEDESTAL
29/30	DUAL	PEDESTAL
31/32	DUAL	PEDESTAL
33/34	DUAL	PEDESTAL
35/36	DUAL	PEDESTAL
37/38	DUAL	PEDESTAL
39	SINGLE	PEDESTAL



PACIFIC GAS AND ELECTRIC COMPANY
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PROJECT NO:	19-1-22141-00
DRAWN BY:	ERIK OROZCO
CHECKED BY:	ROBERT FRANCIS

REV	DATE	DESCRIPTION
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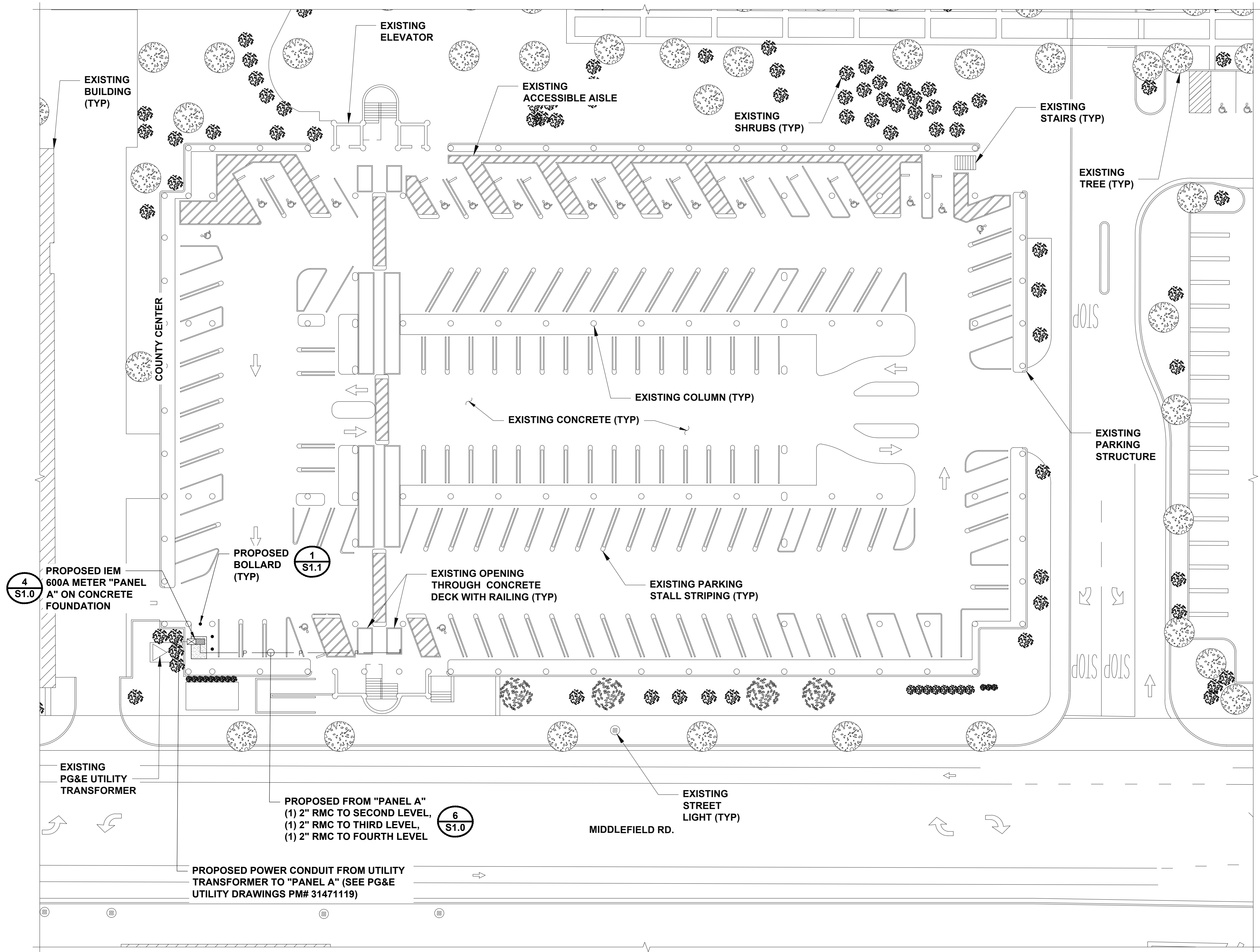
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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

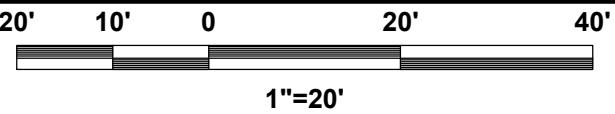
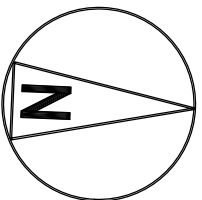
SHEET TITLE
ENLARGED SITE PLAN -
THIRD LEVEL

SHEET NUMBER
C1.3

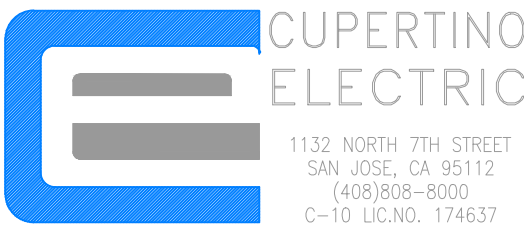


NOTES:

- * AC CONDUCTOR: 20 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL DEPTH AND INSTALLATION LOSSES. WHEN PULL BOXES ARE USED AN ADDITIONAL 21 FEET IS REQUIRED.
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- 4. POWER CONDUITS: NO MORE THAN THE EQUIVALENT OF FOUR 90 DEGREES BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS PER CEC 358.26. PROVIDE PULL BOXES WITH MINIMUM SIZE REQUIREMENTS PER CEC 314.28.
- 5. PERFORM LINE & LOCATE PRIOR TO DIGGING.



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



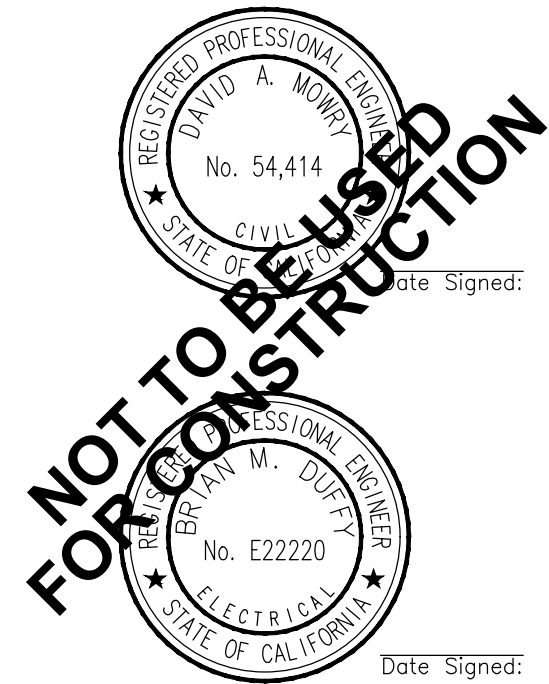
CUPERTINO
ELECTRIC
1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408) 808-8000
C-10 LIC. NO. 174637



CONSULTANT
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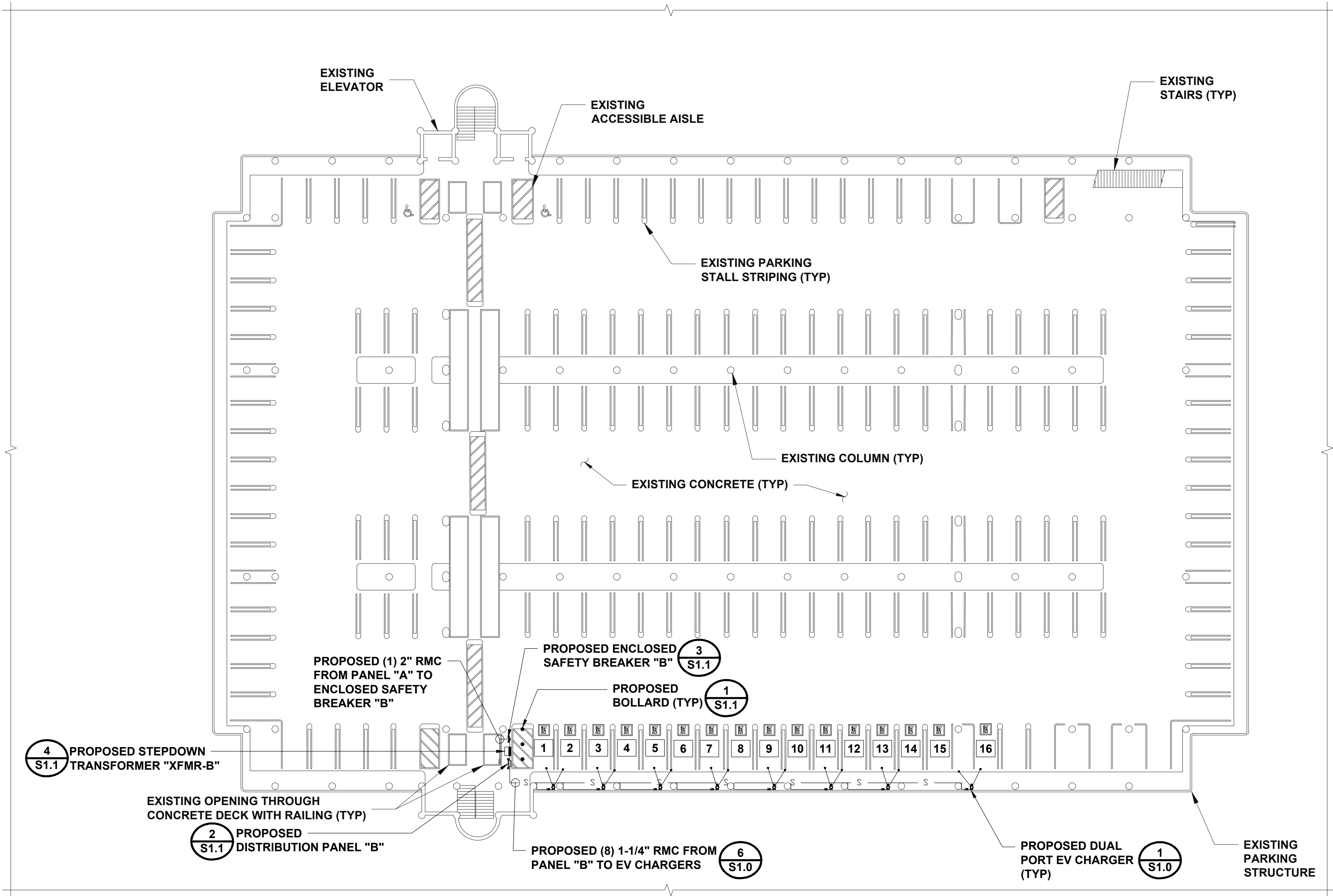
PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL PLAN -
GROUND LEVEL

SHEET NUMBER
E1.0

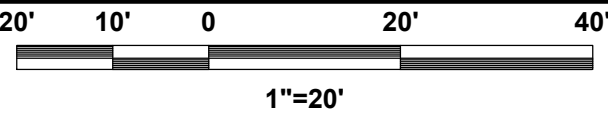
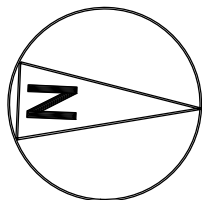
ELECTRICAL PLAN - GROUND LEVEL



FEEDER CIRCUIT LENGTHS				
FROM	TO	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL A	ENCLOSED BREAKER "B"	11	127	3/0
ENCLOSED BREAKER "B"	XFMR-B	6	26	3/0
XFMR-B	PANEL B	6	26	2X3/0

BRANCH CIRCUIT LENGTHS				
AC PANEL	LEVEL 2 EV CHARGER	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL B	1/2	24	44	#6
PANEL B	3/4	39	59	#6
PANEL B	5/6	56	76	#6
PANEL B	7/8	73	93	#6
PANEL B	9/10	90	110	#6
PANEL B	11/12	108	128	#6
PANEL B	13/14	125	145	#6
PANEL B	15/16	150	170	#6

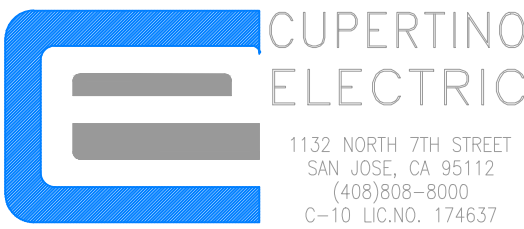
- NOTES:
- * AC CONDUCTOR: 20 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL DEPTH AND INSTALLATION LOSSES. WHEN PULL BOXES ARE USED AN ADDITIONAL 21 FEET IS REQUIRED. FOR THE FEEDER CIRCUIT LENGTHS, 95 FEET WAS ADDED FOR THE HORIZONTAL AND VERTICAL RUN FROM PANEL A ON GROUND LEVEL AND 21 FEET WAS ADDED FOR VERTICAL TRAVEL PER FLOOR.
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 - POWER CONDUITS: NO MORE THAN THE EQUIVALENT OF FOUR 90 DEGREES BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS PER CEC 358.26. PROVIDE PULL BOXES WITH MINIMUM SIZE REQUIREMENTS PER CEC 314.28.
 - PERFORM LINE & LOCATE PRIOR TO DIGGING.



ELECTRICAL PLAN - SECOND LEVEL

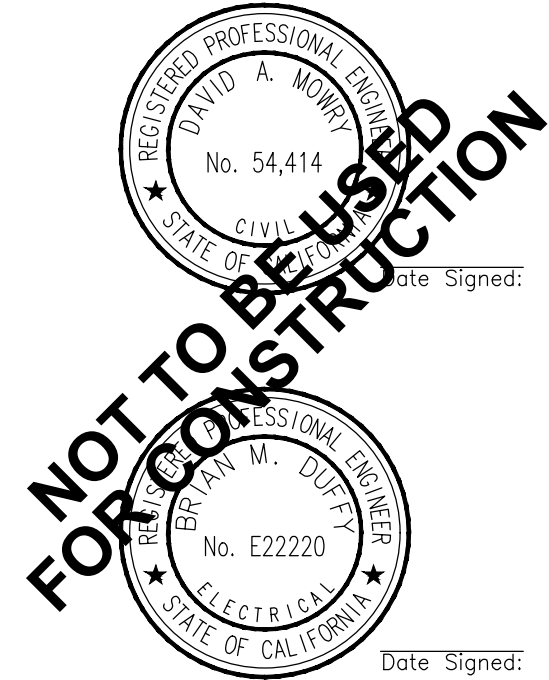


PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

REV	DATE	DESCRIPTION
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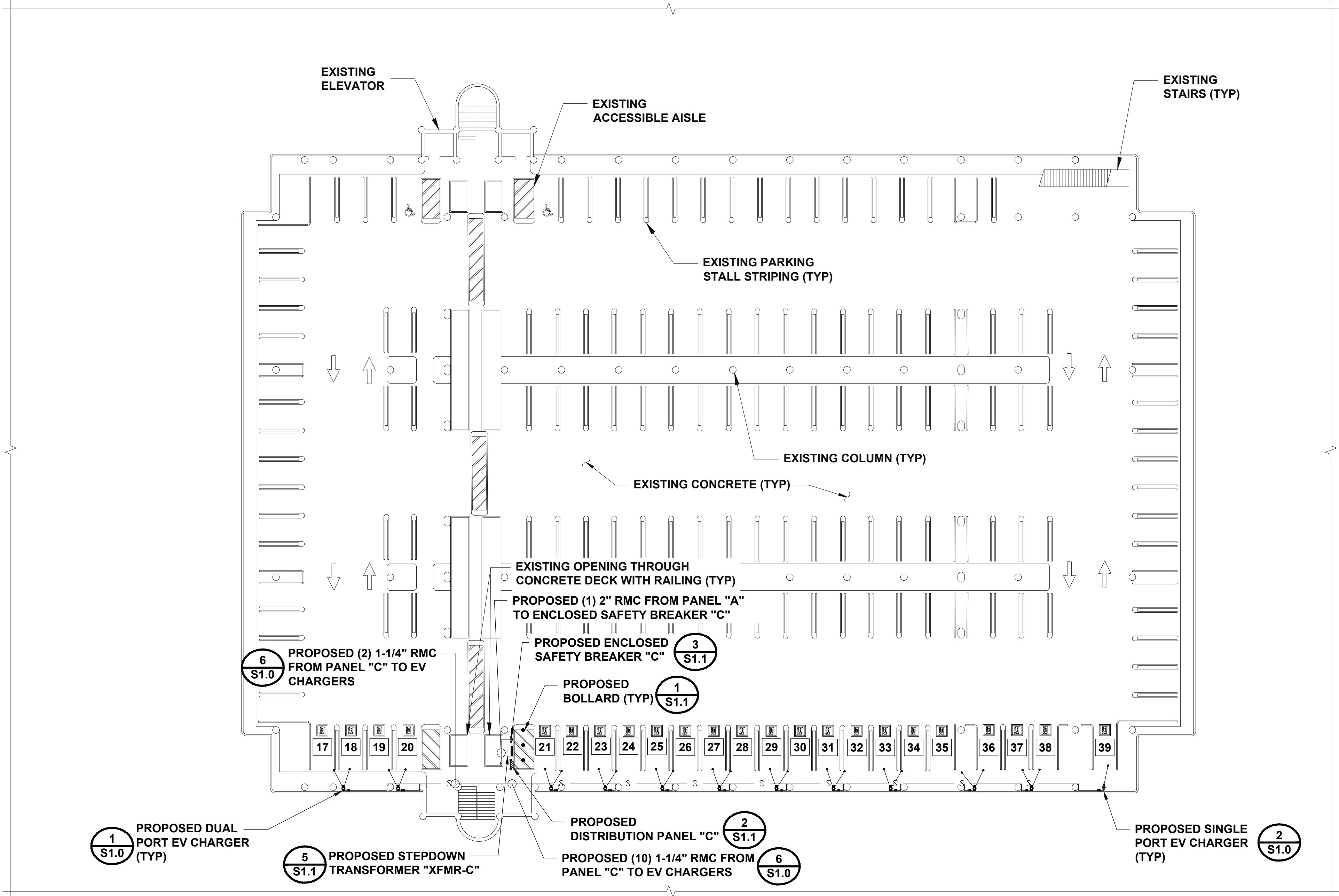
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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL PLAN -
SECOND LEVEL

SHEET NUMBER
E1.1



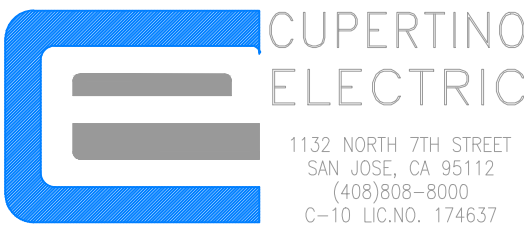
FEEDER CIRCUIT LENGTHS				
FROM	TO	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL A	ENCLOSED BREAKER "C"	11	148	3/0
ENCLOSED BREAKER "C"	XFMR-C	6	26	3/0
XFMR-C	PANEL C	6	26	2X3/0

BRANCH CIRCUIT LENGTHS				
AC PANEL	LEVEL 2 EV CHARGER	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL C	17/18	60	80	#6
PANEL C	19/20	43	63	#6
PANEL C	21/22	27	47	#6
PANEL C	23/24	45	65	#6
PANEL C	25/26	62	82	#6
PANEL C	27/28	79	99	#6
PANEL C	29/30	97	117	#6
PANEL C	31/32	114	134	#6
PANEL C	33/34	131	151	#6
PANEL C	35/36	150	170	#6
PANEL C	37/38	167	187	#4
PANEL C	39	189	209	#4

- NOTES:
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C-10 LIC. NO. 174637

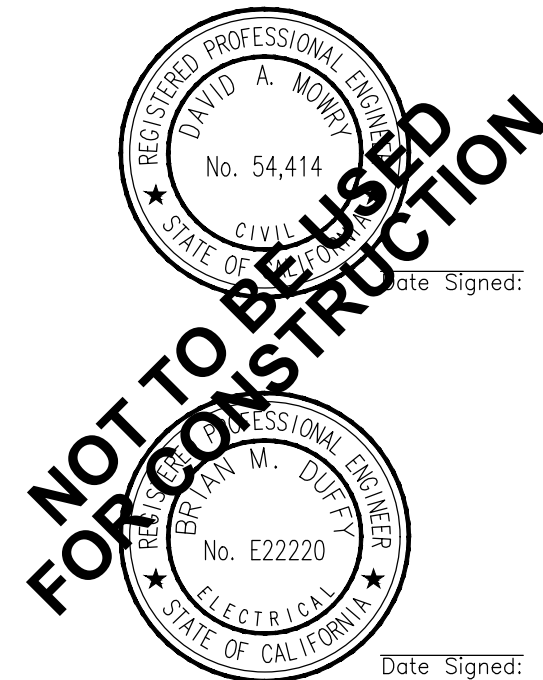


CONSULTANT

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Davis, California 95612
Tel (559) 326-1400
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DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

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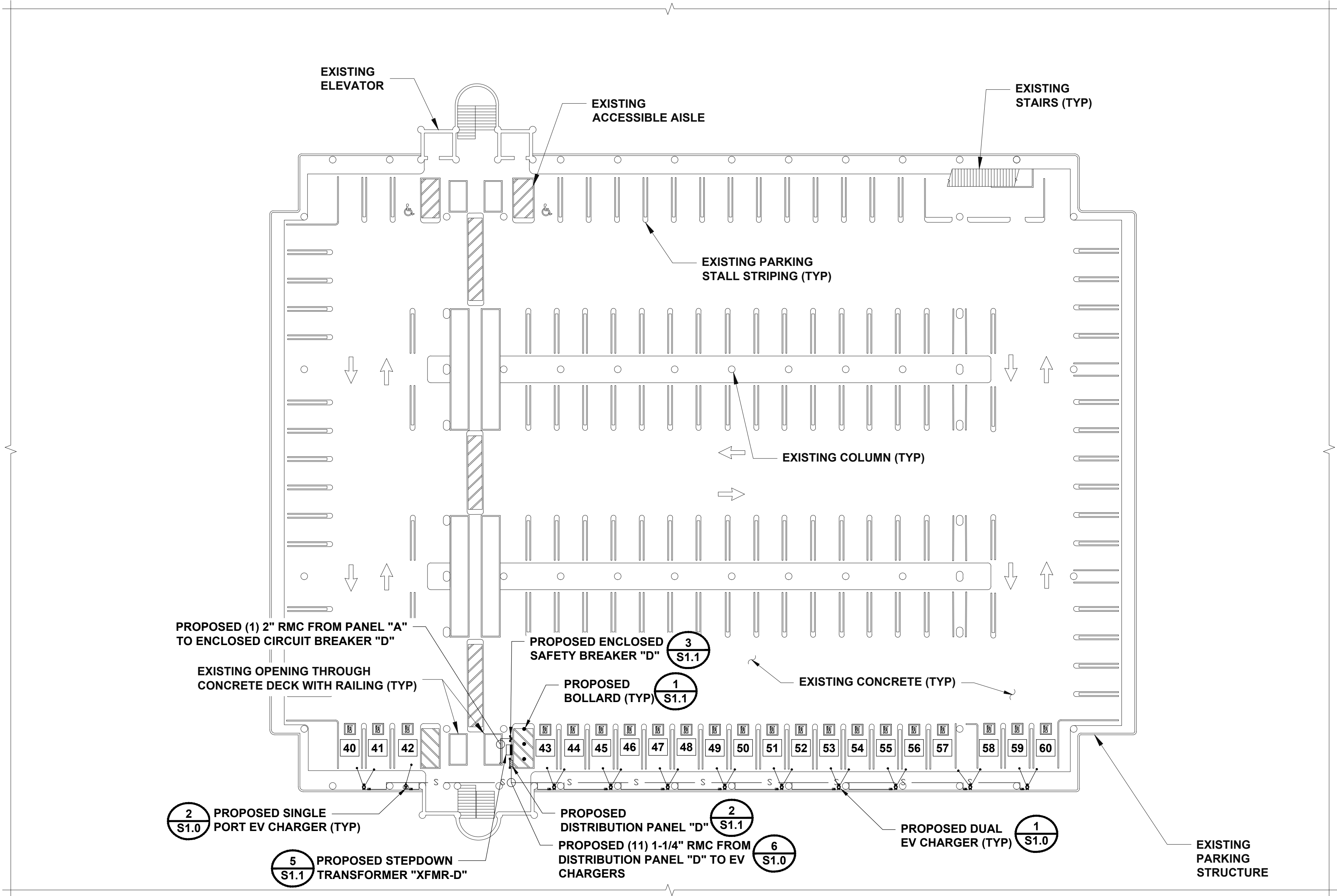
PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL PLAN -
THIRD LEVEL

SHEET NUMBER
E1.2

ELECTRICAL PLAN - THIRD LEVEL

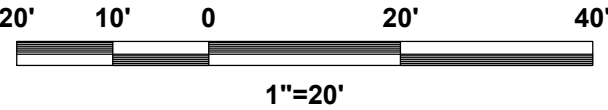
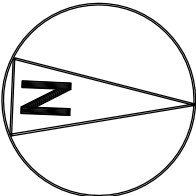
20' 10' 0 20' 40'
1"=20'



FEEDER CIRCUIT LENGTHS				
FROM	TO	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL A	ENCLOSED BREAKER "D"	11	169	3/0
ENCLOSED BREAKER "D"	XFMR-D	6	26	3/0
XFMR-D	PANEL D	6	26	2X3/0

BRANCH CIRCUIT LENGTHS				
AC PANEL	LEVEL 2 EV CHARGER	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL D	40/41	53	73	#6
PANEL D	42	41	61	#6
PANEL D	43/44	24	44	#6
PANEL D	45/46	41	61	#6
PANEL D	47/48	58	78	#6
PANEL D	49/50	75	95	#6
PANEL D	51/52	92	112	#6
PANEL D	53/54	110	130	#6
PANEL D	55/56	127	147	#6
PANEL D	57/58	149	169	#6
PANEL D	59/60	166	186	#4

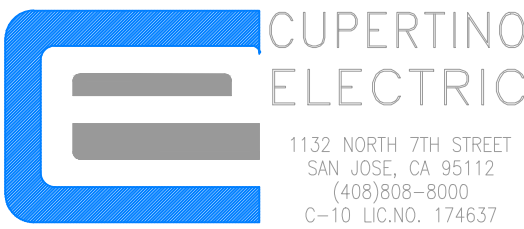
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ELECTRICAL PLAN - FOURTH LEVEL

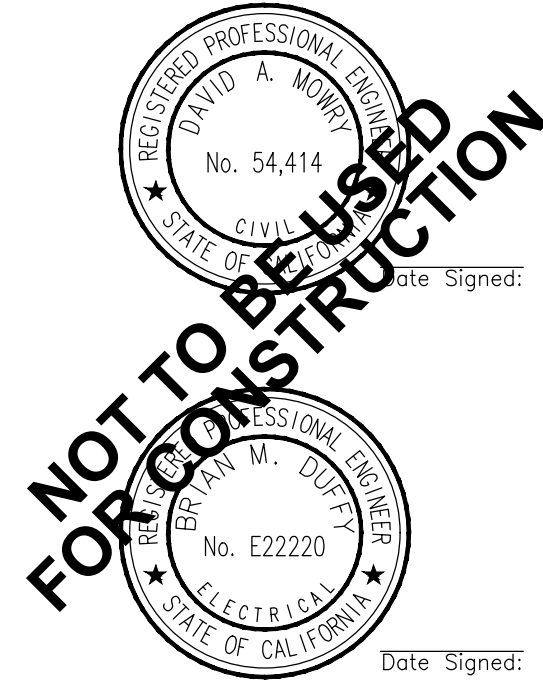


PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



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CHECKED BY: ROBERT FRANCIS

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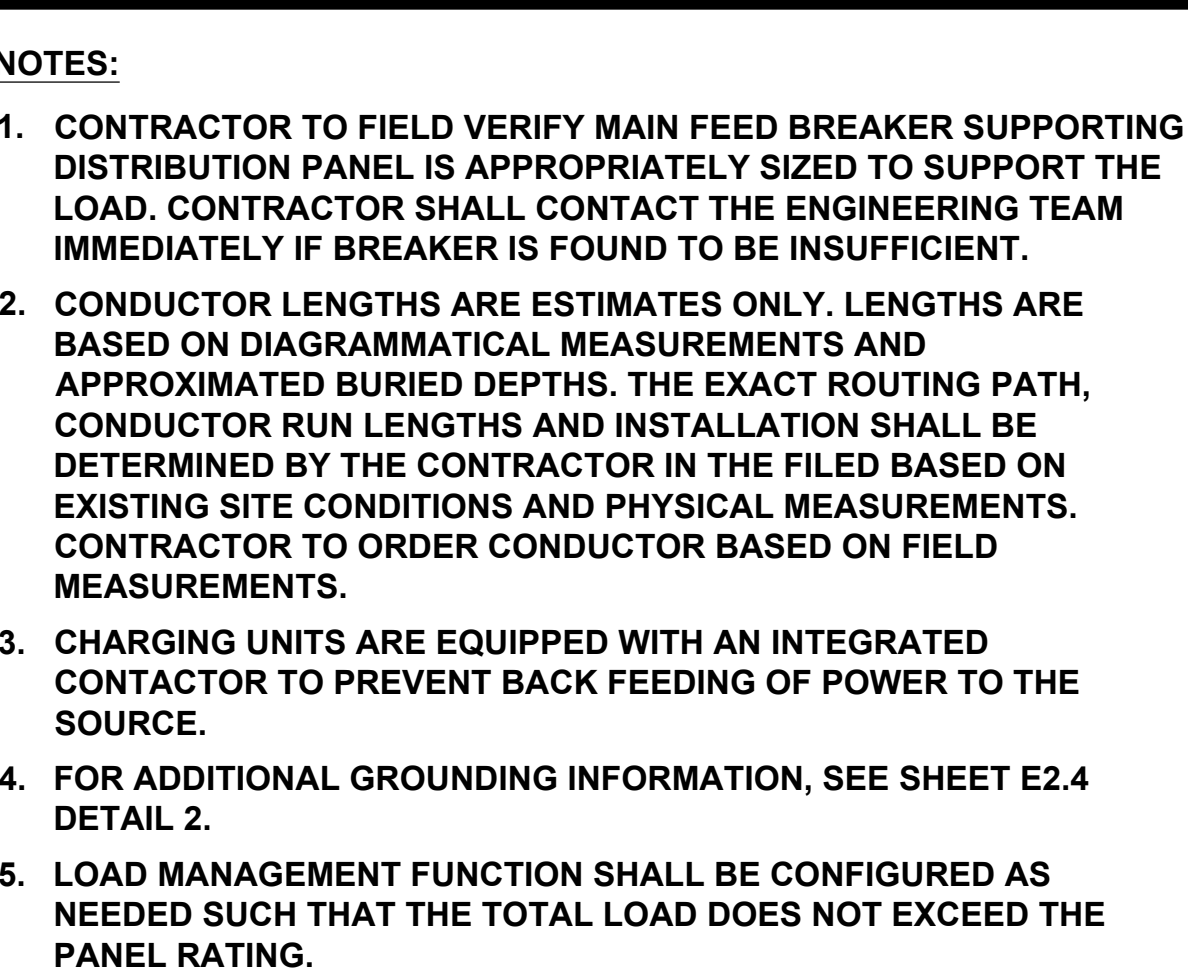
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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL PLAN -
FOURTH LEVEL

SHEET NUMBER
E1.3



MAXIMUM AC VOLTAGE DROP (%)	2.62%
AVERAGE AC VOLTAGE DROP (%)	1.85%

TABLE A (SINGLE PORT CHARGER)

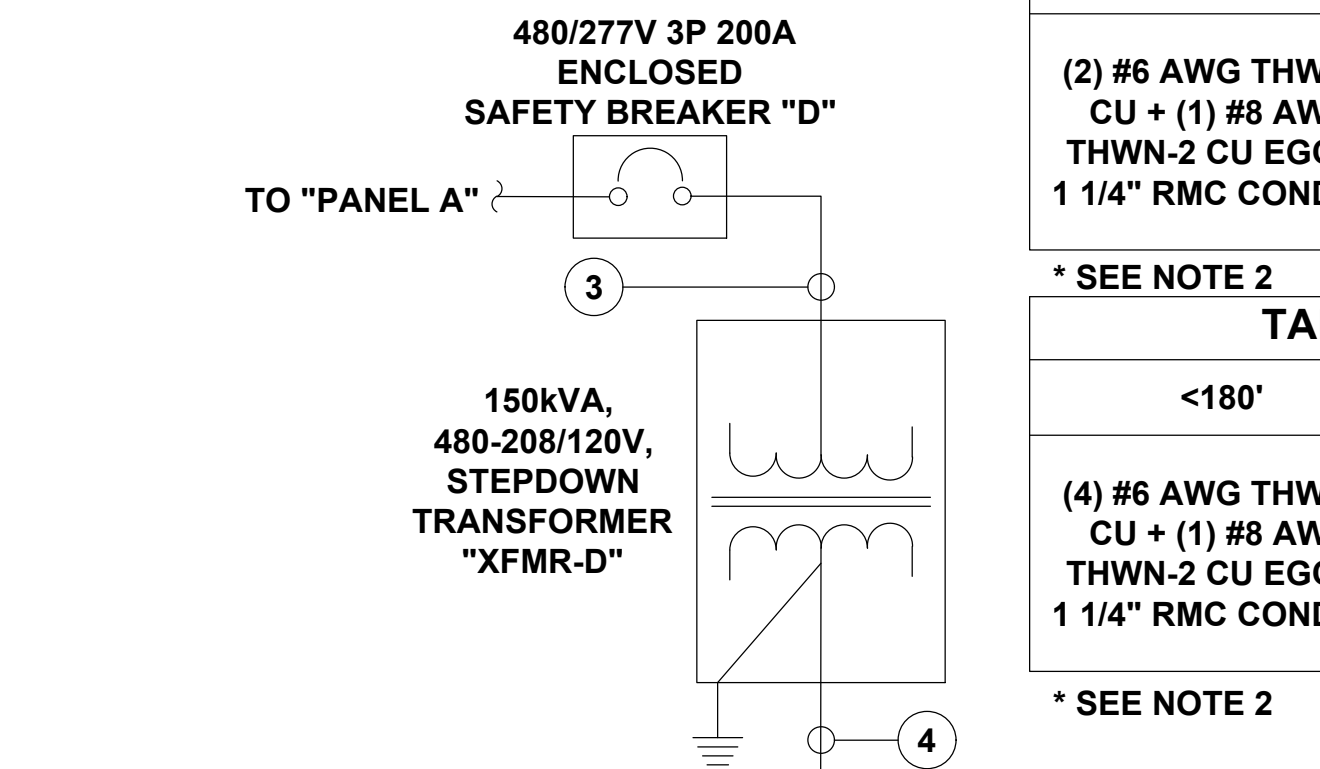
<180'	180' - 290'	290' - 400'
(2) #6 AWG THWN-2 CU + (1) #8 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT	(2) #4 AWG THWN-2 CU + (1) #6 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT	(2) #3 AWG THWN-2 CU + (1) #4 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT

*** SEE NOTE 2**

TABLE B (DUAL PORT CHARGER)

<180'	180' - 290'	290' - 400'
(4) #6 AWG THWN-2 CU + (1) #8 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT	(4) #4 AWG THWN-2 CU + (1) #6 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT	(4) #3 AWG THWN-2 CU + (1) #4 AWG THWN-2 CU EGC IN 1 1/4" RMC CONDUIT

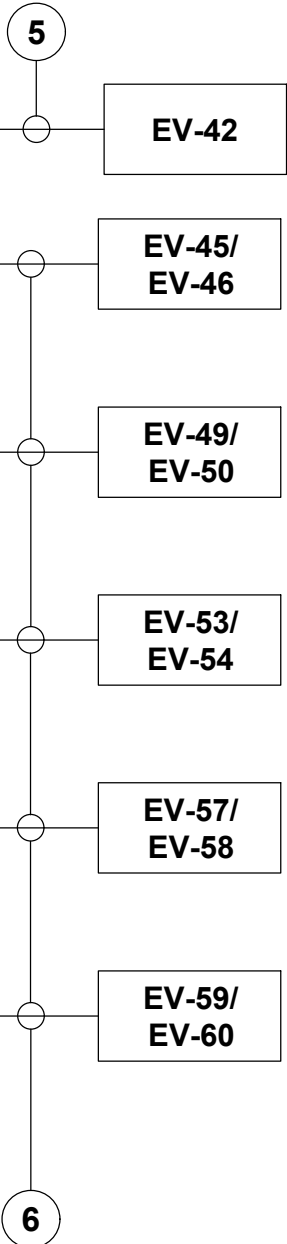
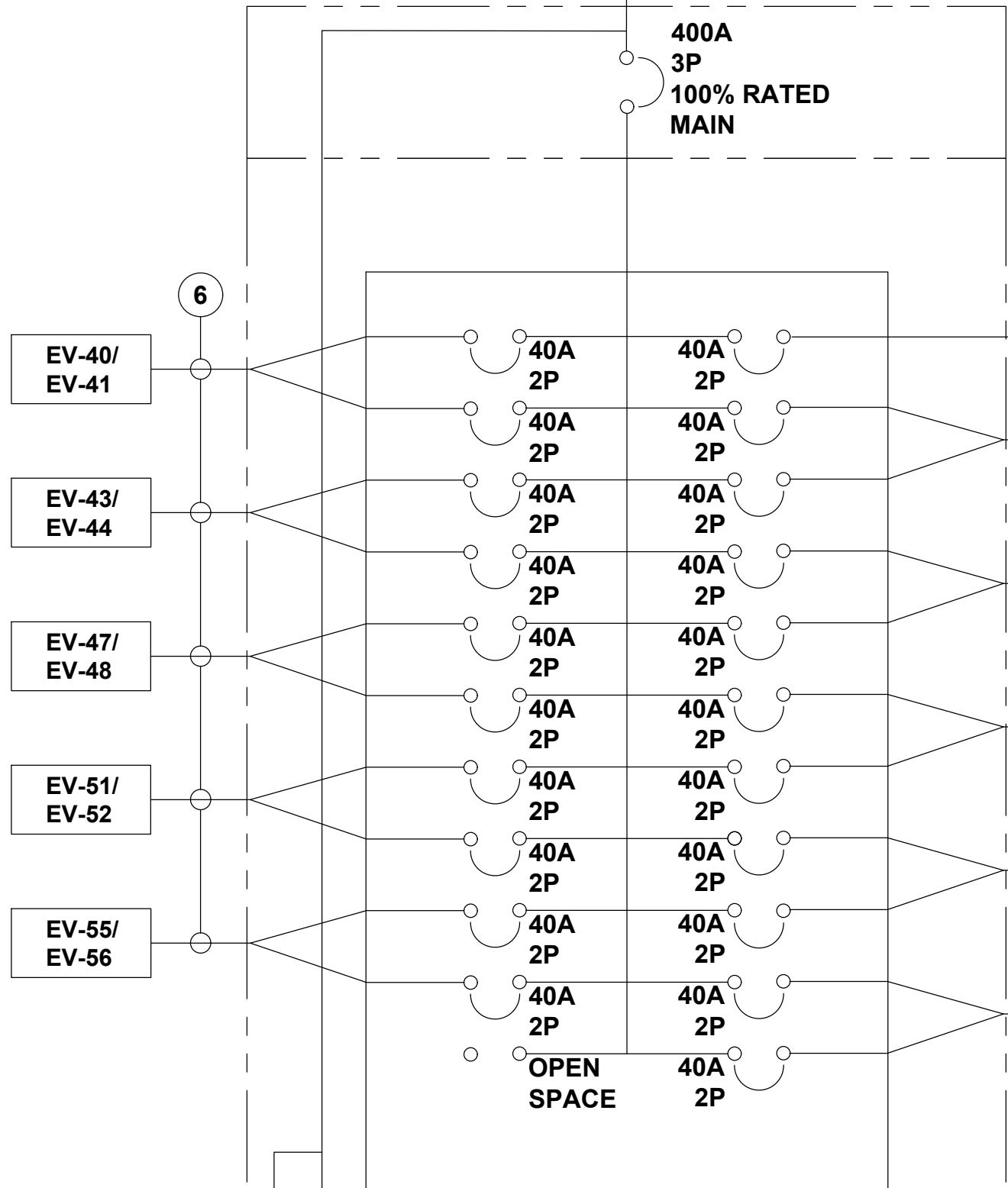
* SEE NOTE 2



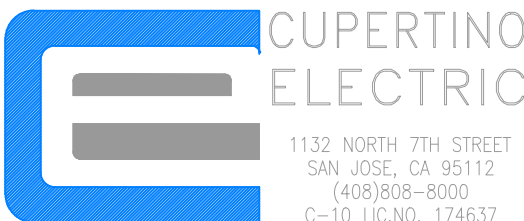
**DISTRIBUTION PANEL "B",
208/120V, 3 PHASE, 4-WIRE, 300A BUS, 100% RATED, 50 KAIC
AVAILABLE FAULT CURRENT: XX,XXX AMPS**

**DISTRIBUTION PANEL "C",
208/120V, 3 PHASE, 4-WIRE, 400A BUS, 100% RATED, 50 KAIC
AVAILABLE FAULT CURRENT: XX,XXX AMPS**

**DISTRIBUTION PANEL "D",
208/120V, 3 PHASE, 4-WIRE, 400A BUS, 100% RATED, 50 KAIC
AVAILABLE FAULT CURRENT: XX,XXX AMPS**



**PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300**



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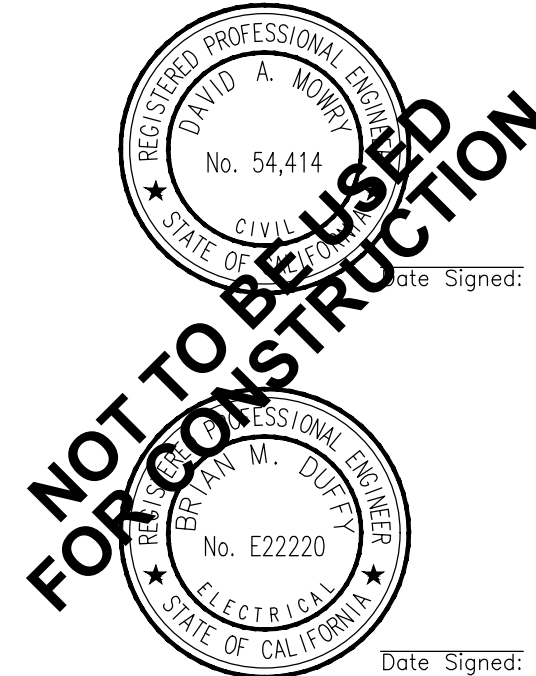
**Blair,
Church
& Flynn**
CONSULTING ENGINEERS

PROJECT NO: 19-1-22141-00

DRAWN BY: ERIK OROZCO

CHECKED BY: ROBERT FRANCIS

0	04/27/2020	ISSUED FOR 100% REVIEW
REV	DATE	DESCRIPTION



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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE

SINGLE LINE DIAGRAM

SHEET NUMBER

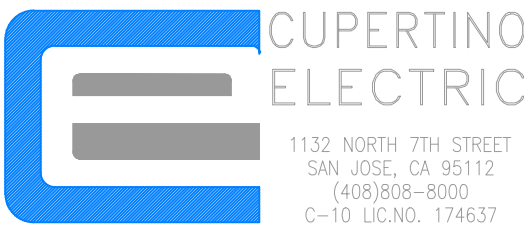
E1.4

Site Name:		COUNTY OF SAN MATEO						MODEL NUMBER:		PGELP600A4802773-12									
SITE NUMBER:		19-1-22141-00						PHASE:		3		WIRE:		4					
VOLTAGE:		480 /277		Volts AC				BUSS RATING:		600 AMPS		100% RATED							
MAIN BREAKER:		600 AMPS		100% RATED				KAIC RATING:		50									
MOUNT:		PEDESTAL																	
ENCLOSURE TYPE:		NEMA 3R																	
PANEL STATUS:		New																	
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT	
1	SAFETY BREAKER "B"	200	3	NEW	37440	1.00	1.00	87360			1.00	1.00	49920	NEW	2	40	SAFETY BREAKER "C"	2	
3		200	3	NEW	31200	1.00	1.00		78000		1.00	1.00	46800	NEW	2	40		4	
5		200	3	NEW	31200	1.00	1.00			78000	1.00	1.00	46800	NEW	2	40		6	
7	SAFETY BREAKER "D"	200	3	NEW	46800	1.00	1.00	46800			0.00	0.00	0	-	-	-	-	8	
9		200	3	NEW	43680	1.00	1.00		43680		0.00	0.00	0	-	-	-		10	
11		200	3	NEW	40560	1.00	1.00			40560	0.00	0.00	0	-	-	-		12	
								PHASE A	PHASE B	PHASE C									
								134160	121680	118560	VA								
										TOTAL	KVA	374.40							
											AMPS	450.33	≤ 100% OF MAIN BREAKER						

NOTE:
LOAD MANAGEMENT FUNCTION SHALL BE CONFIGURED AS
NEEDED SUCH THAT THE TOTAL LOAD DOES NOT EXCEED THE
PANEL RATING.



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408)808-8000
C-10 LIC.NO. 174637

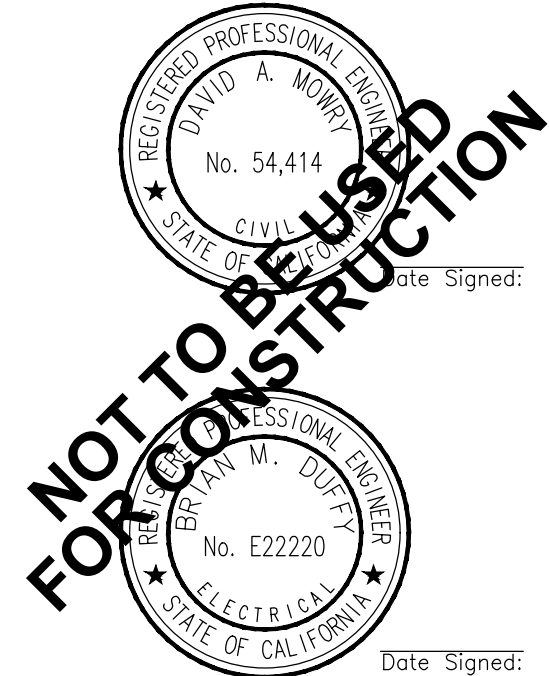


CONSULTANT

Blair, Church & Flynn
Consulting Engineers
481 Davis Avenue,
Suite 200
Davis, California 95612
Tel (916) 326-1400
Fax (916) 326-1000

PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

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PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL DETAILS -
PANEL A

SHEET NUMBER

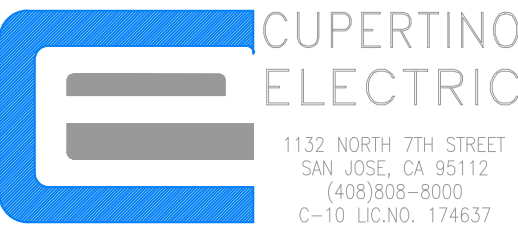
E2.0

Site Name:		COUNTY OF SAN MATEO						MODEL NUMBER:		PGELP300A 1202083-32													
SITE NUMBER:		19-1-22141-00						PHASE:		3				WIRE:		4							
VOLTAGE:		208 /120		Volts AC				BUSS RATING:		300 AMPS		100% RATED											
MAIN BREAKER:		300 AMPS		100% RATED				KAIC RATING:		50													
MOUNT:		PEDESTAL																					
ENCLOSURE TYPE:		NEMA 3R																					
PANEL STATUS:		New																					
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT					
1	EV-01	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-03	2					
3		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		4					
5	EV-02	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-04	6					
7		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		8					
9	EV-05	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-07	10					
11		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		12					
13	EV-06	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-08	14					
15		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		16					
17	EV-09	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-11	18					
19		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		20					
21	EV-10	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-12	22					
23		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		24					
25	EV-13	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-15	26					
27		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		28					
29	EV-14	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-16	30					
31		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		32					
								PHASE A	PHASE B	PHASE C													
								37440	31200	31200	VA												
										TOTAL	KVA	99.84											
											AMPS	277.13	≤ 100% OF MAIN BREAKER										

NOTE:
LOAD MANAGEMENT FUNCTION SHALL BE CONFIGURED AS
NEEDED SUCH THAT THE TOTAL LOAD DOES NOT EXCEED THE
PANEL RATING.



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



1132 NORTH 7TH STREET
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C-10 LIC.NO. 174637

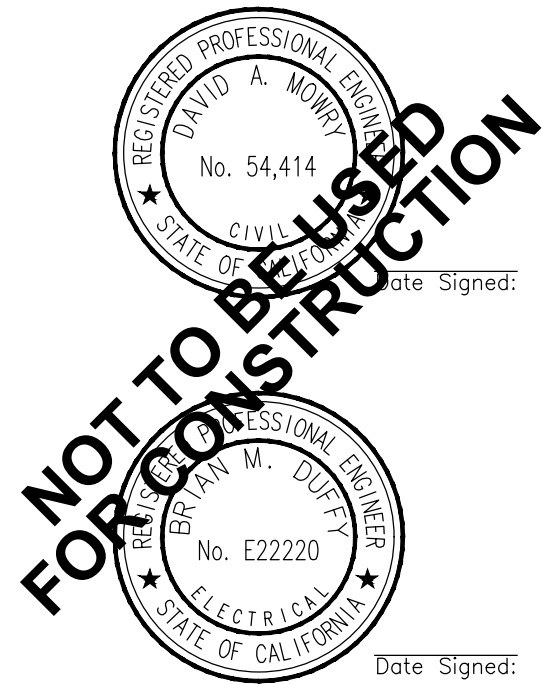


CONSULTANT

Blair, Church & Flynn
Consulting Engineers
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Suite 200
Davis, California 95612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

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REV	DATE	DESCRIPTION



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PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL DETAILS -
PANEL B

SHEET NUMBER

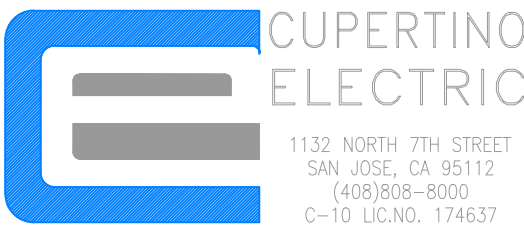
E2.1

NOTE:
LOAD MANAGEMENT FUNCTION SHALL BE CONFIGURED AS
NEEDED SUCH THAT THE TOTAL LOAD DOES NOT EXCEED THE
PANEL RATING.

Site Name:		COUNTY OF SAN MATEO						MODEL NUMBER:		PGELP400A 1202083-48									
SITE NUMBER:		19-1-22141-00						PHASE:		3		WIRE:		4					
VOLTAGE:		208 /120		Volts AC				BUSS RATING:		400 AMPS		100% RATED							
MAIN BREAKER:		400 AMPS		100% RATED				KAIC RATING:		50									
MOUNT:		PEDESTAL																	
ENCLOSURE TYPE:		NEMA 3R																	
PANEL STATUS:		New																	
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT	
1	EV-17	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-19	2	
3		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		4	
5	EV-18	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-20	6	
7		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		8	
9	EV-21	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-23	10	
11		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		12	
13	EV-22	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-24	14	
15		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		16	
17	EV-25	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-27	18	
19		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		20	
21	EV-26	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-28	22	
23		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		24	
25	EV-29	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-31	26	
27		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		28	
29	EV-30	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-32	30	
31		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		32	
33	EV-33	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-35	34	
35		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		36	
37	EV-34	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-36	38	
39		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		40	
41	EV-37	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-39	42	
43		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		44	
45	EV-38	40	2	NEW	3120	1.00	1.00		3120		0.00	0.00	0	-	-	-	-	46	
47		40	2	NEW	3120	1.00	1.00			3120	0.00	0.00	0	-	-	-		48	
								PHASE A	PHASE B	PHASE C									
								49920	46800	46800	VA								
										TOTAL	KVA	143.52							
											AMPS	398.37	≤ 100% OF MAIN BREAKER						



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



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C-10 LIC.NO. 174637



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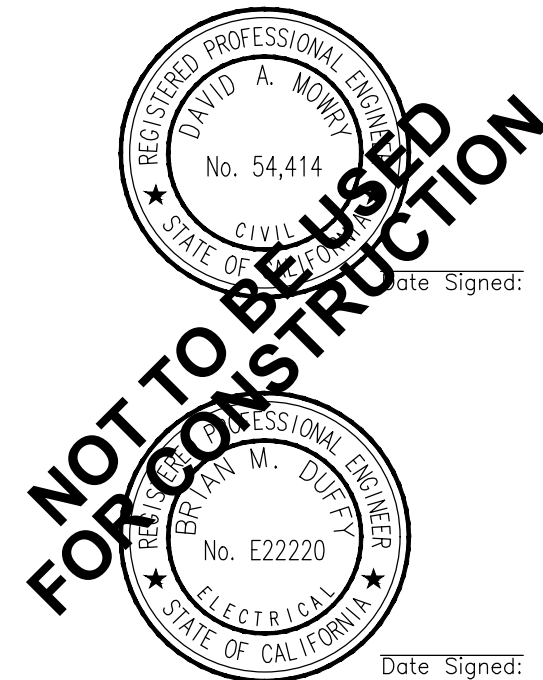
Blair, Church & Flynn
Consulting Engineers
481 Davis Avenue
Suite 200
Davis, California 95612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO: 19-1-22141-00

DRAWN BY: ERIK OROZCO

CHECKED BY: ROBERT FRANCIS

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REV	DATE	DESCRIPTION



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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL DETAILS -
PANEL C

SHEET NUMBER

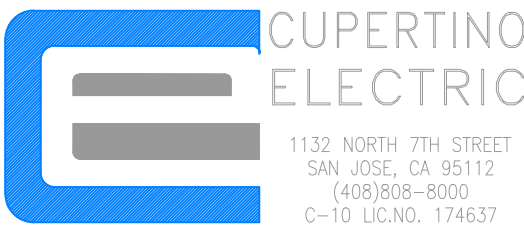
E2.2

NOTE:
LOAD MANAGEMENT FUNCTION SHALL BE CONFIGURED AS
NEEDED SUCH THAT THE TOTAL LOAD DOES NOT EXCEED THE
PANEL RATING.

Site Name:		COUNTY OF SAN MATEO						MODEL NUMBER:		PGELP400A1202083-44											
SITE NUMBER:		19-1-22141-00						PHASE:		3				WIRE:		4					
VOLTAGE:		208 /120		Volts AC				BUSS RATING:		400 AMPS		100% RATED									
MAIN BREAKER:		400 AMPS		100% RATED				KAIC RATING:		50											
MOUNT:		PEDESTAL																			
ENCLOSURE TYPE:		NEMA 3R																			
PANEL STATUS:		New																			
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT			
1	EV-40	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-42	2			
3		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		4			
5	EV-41	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-45	6			
7		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		8			
9	EV-43	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-46	10			
11		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		12			
13	EV-44	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-49	14			
15		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		16			
17	EV-47	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-50	18			
19		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		20			
21	EV-48	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-53	22			
23		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		24			
25	EV-51	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-54	26			
27		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		28			
29	EV-52	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-57	30			
31		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		32			
33	EV-55	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-58	34			
35		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		36			
37	EV-56	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-59	38			
39		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		40			
41	-	-	-	-	0	0.00	0.00			3120	1.00	1.00	3120	NEW	2	40	EV-60	42			
43		-	-	-	0	0.00	0.00	3120			1.00	1.00	3120	NEW	2	40		44			
								PHASE A	PHASE B	PHASE C											
								46800	43680	40560	VA										
										TOTAL	KVA	131.04									
											AMPS	363.73	≤ 100% OF MAIN BREAKER								



PACIFIC GAS AND ELECTRIC COMPANY
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CONSULTANT

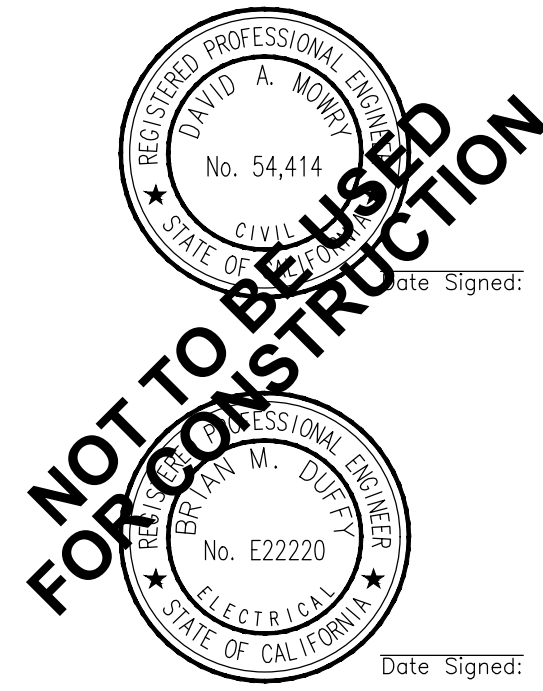
Blair, Church & Flynn
Consulting Engineers
4851 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1000

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DRAWN BY: ERIK OROZCO

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THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

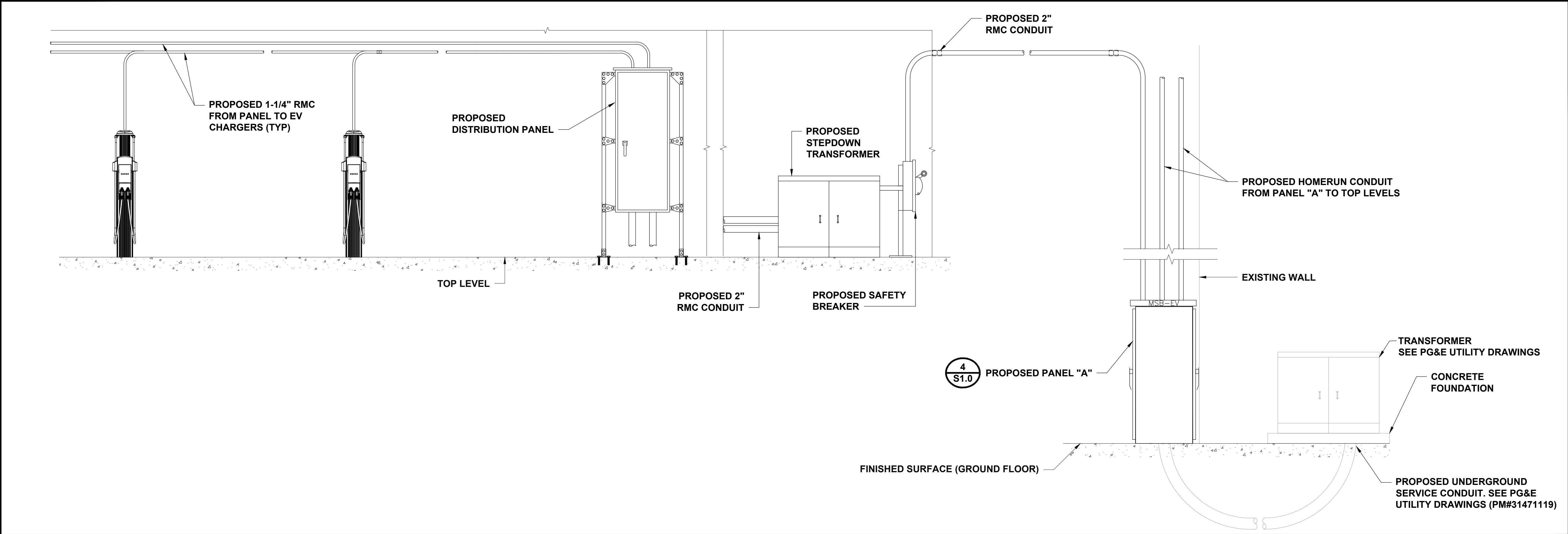
PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL DETAILS -
PANEL D

SHEET NUMBER

E2.3



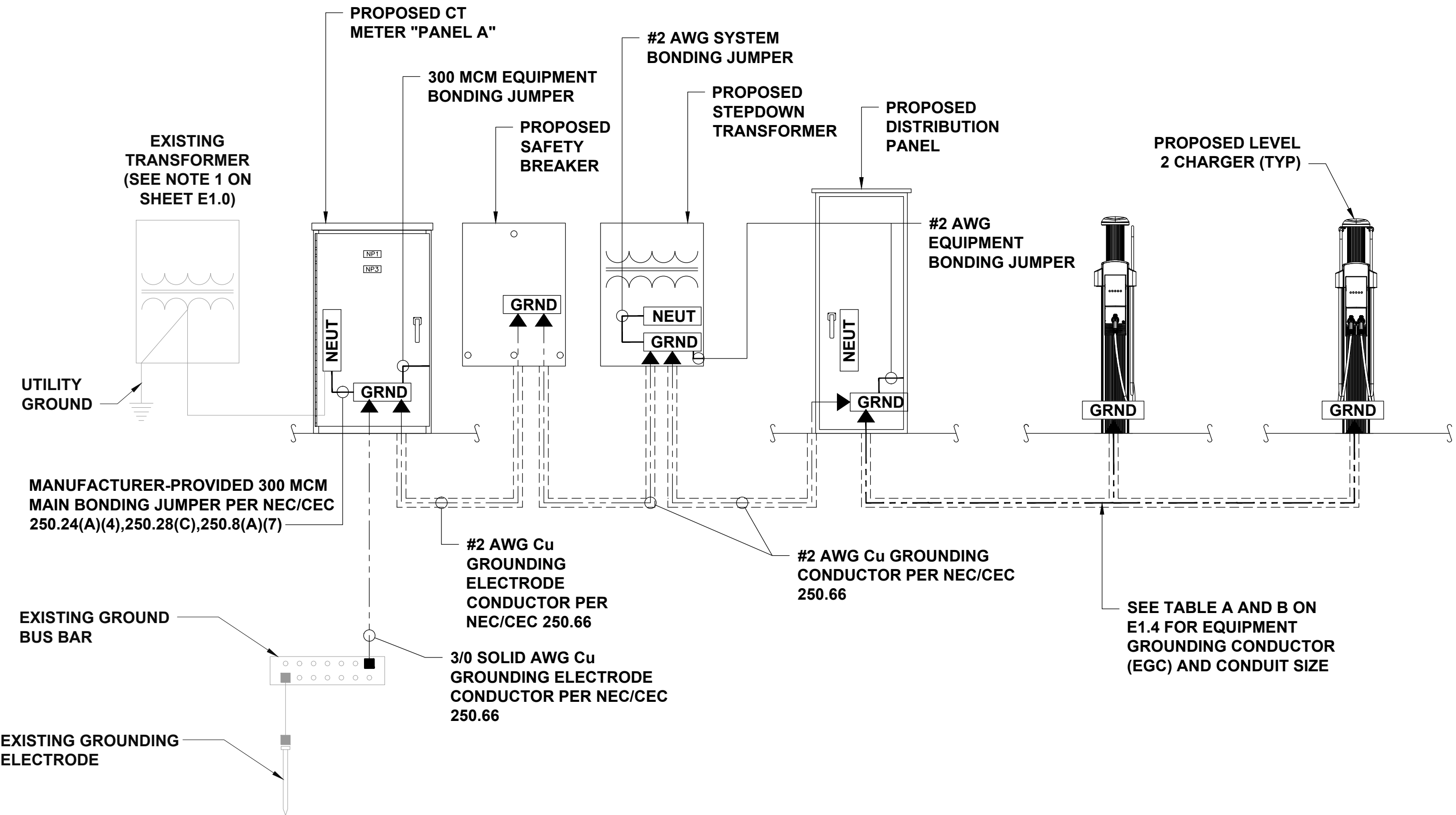
CAR CHARGER CONDUIT ELEVATION

NO SCALE

1

GROUNDING NOTES

1. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
4. ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.
5. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC/CEC, ARTICLE 250.



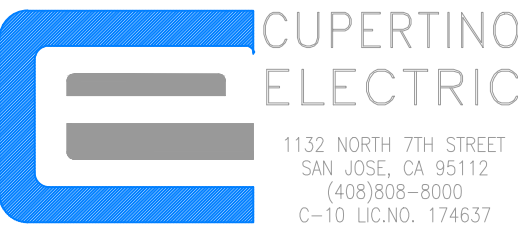
GROUNDING DETAIL

NO SCALE

2



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



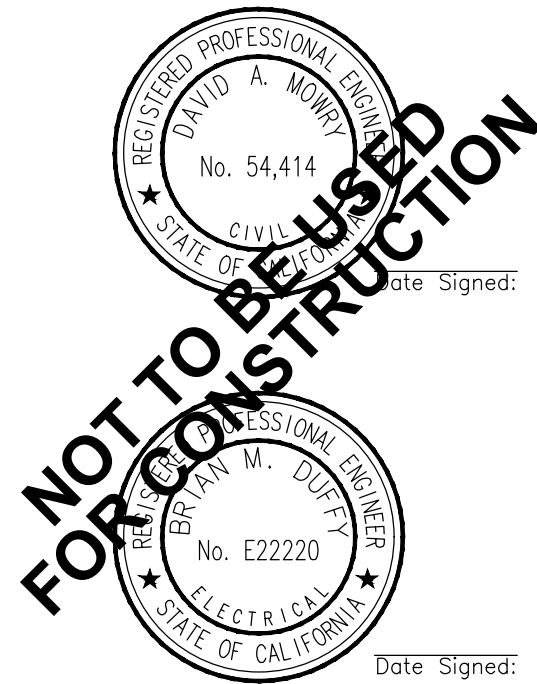
1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408)808-8000
C-10 LIC.NO. 174637



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO:	19-1-22141-00
DRAWN BY:	ERIK OROZCO
CHECKED BY:	ROBERT FRANCIS

REV	DATE	DESCRIPTION
0	04/27/2020	ISSUED FOR 100% REVIEW



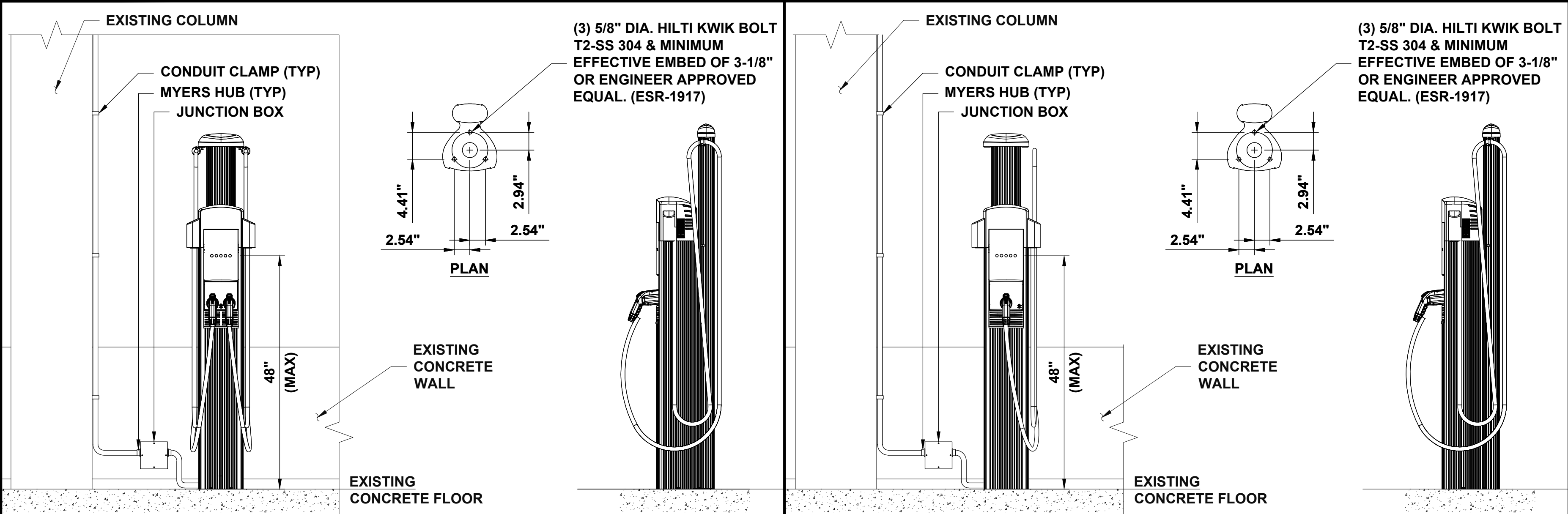
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PG&E ACCEPTANCE STAMP

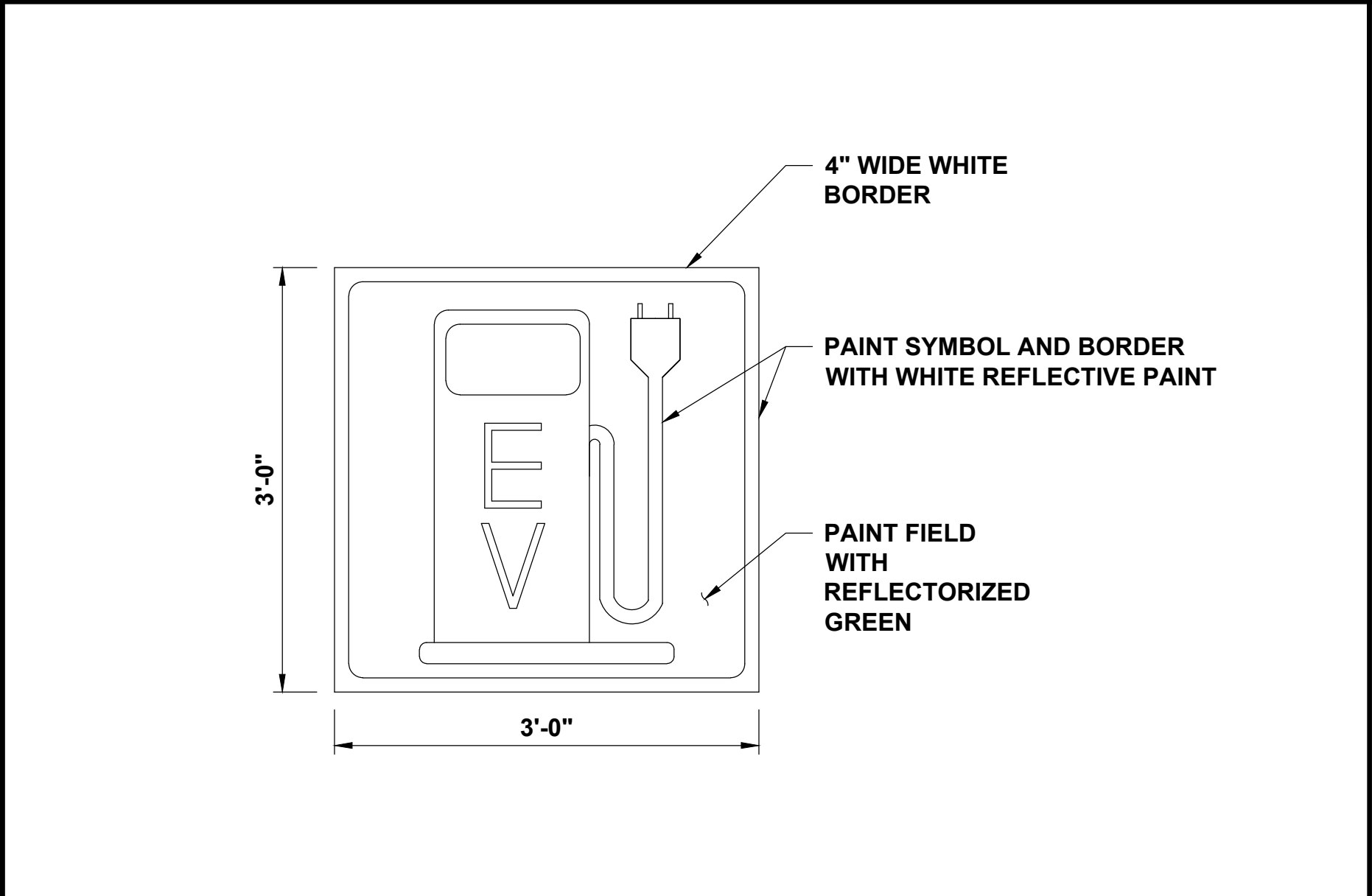
PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
ELECTRICAL DETAILS

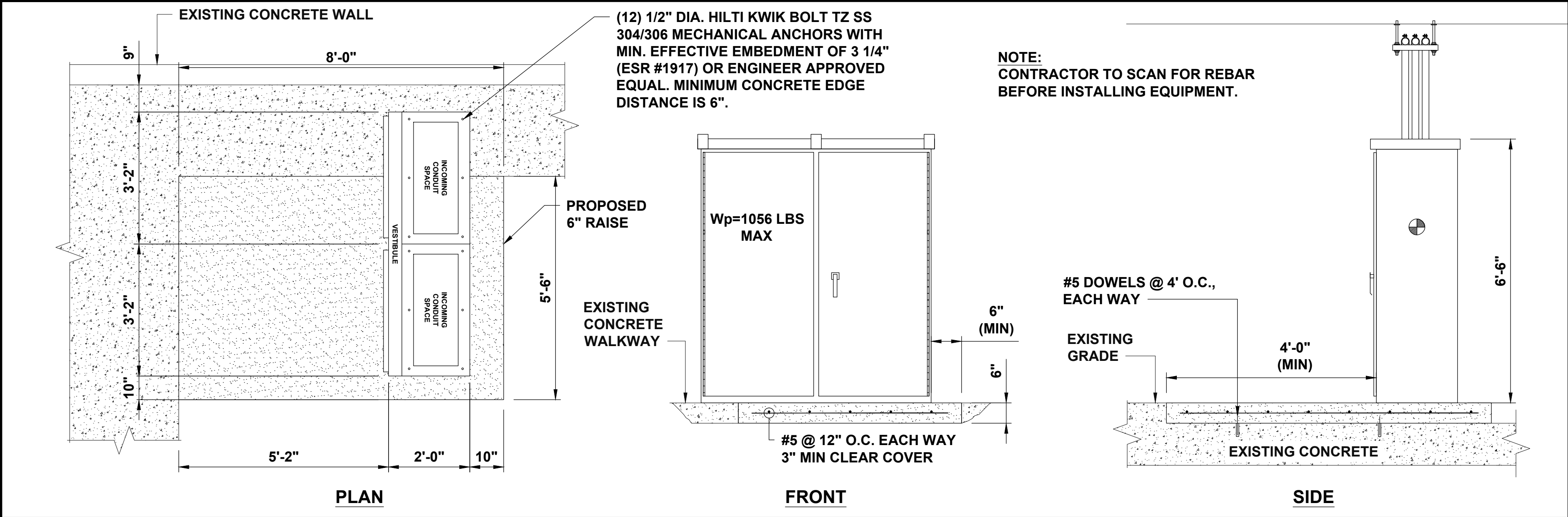
SHEET NUMBER
E2.4



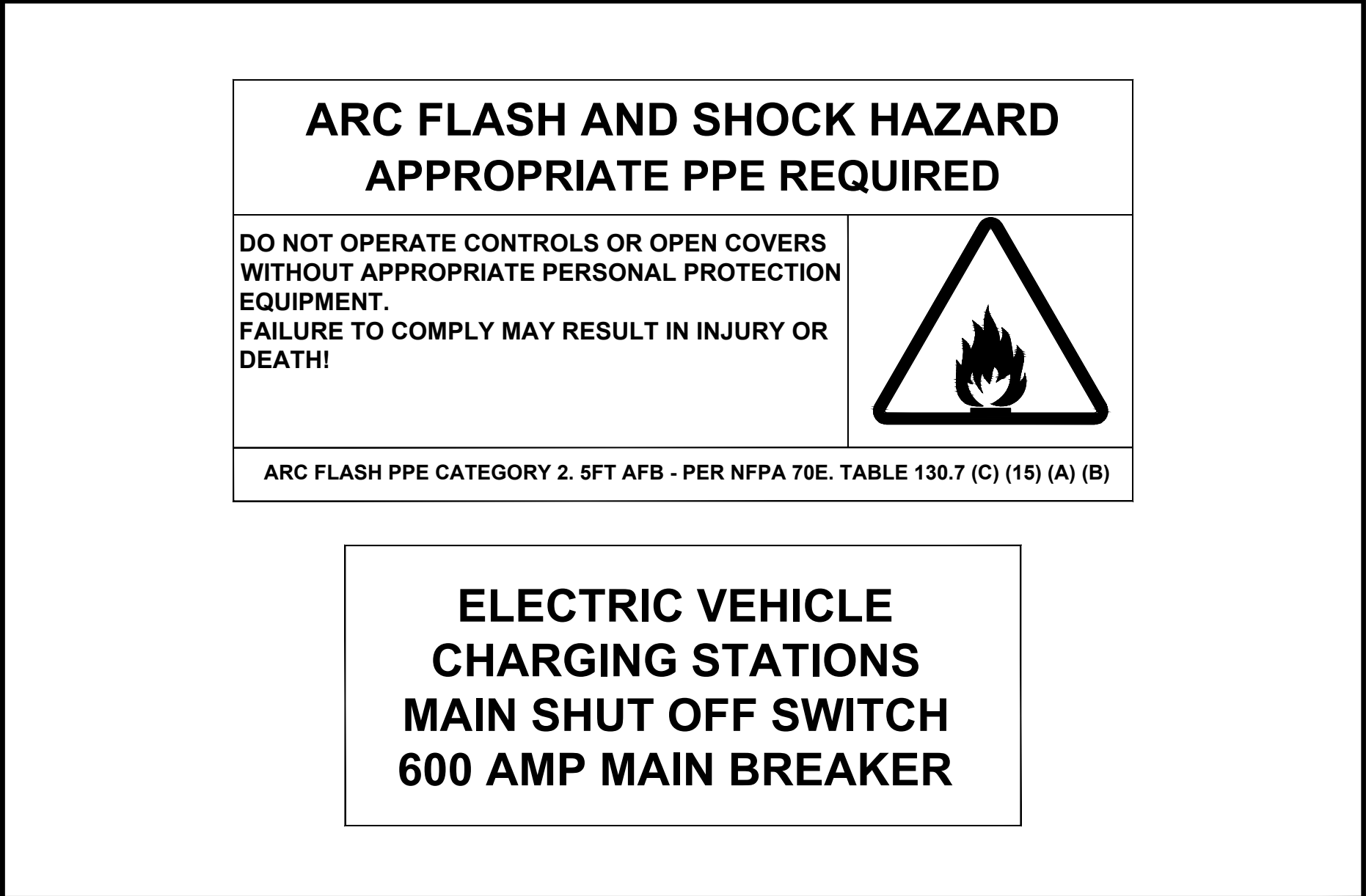
DUAL PORT DISPENSER DETAIL (CHARGEPOINT)	NO SCALE	1	SINGLE PORT DISPENSER DETAIL (CHARGEPOINT)	NO SCALE	2
--	----------	---	--	----------	---



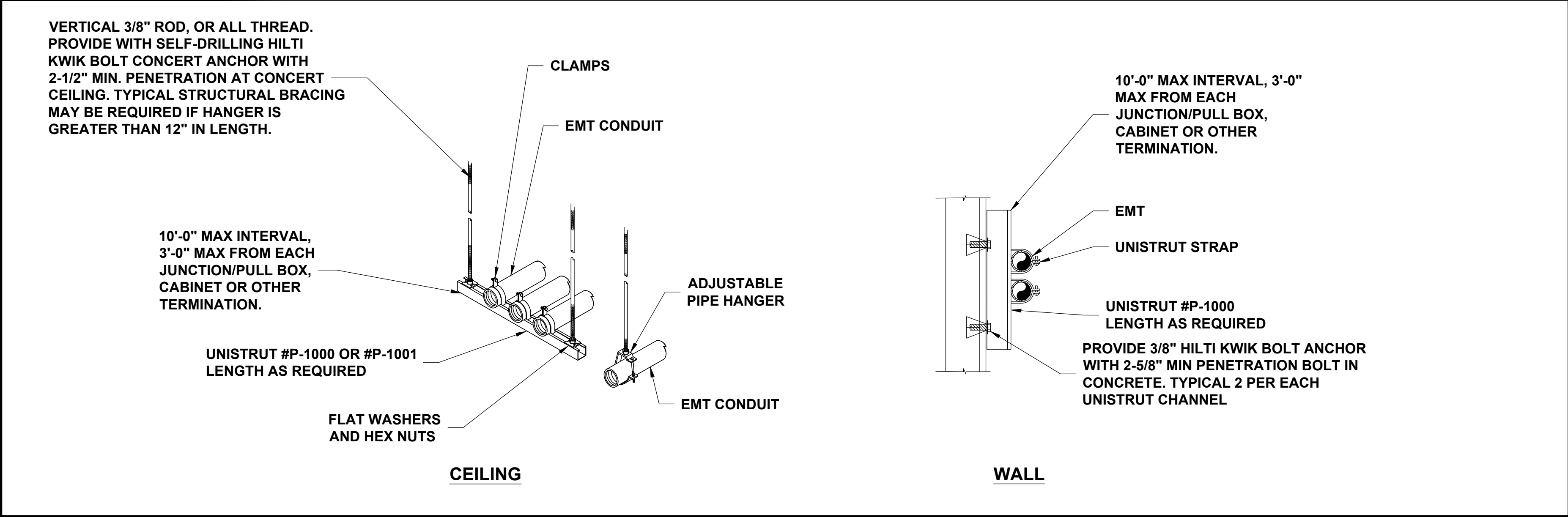
TYPICAL EV LOGO DETAIL	NO SCALE	3
------------------------	----------	---



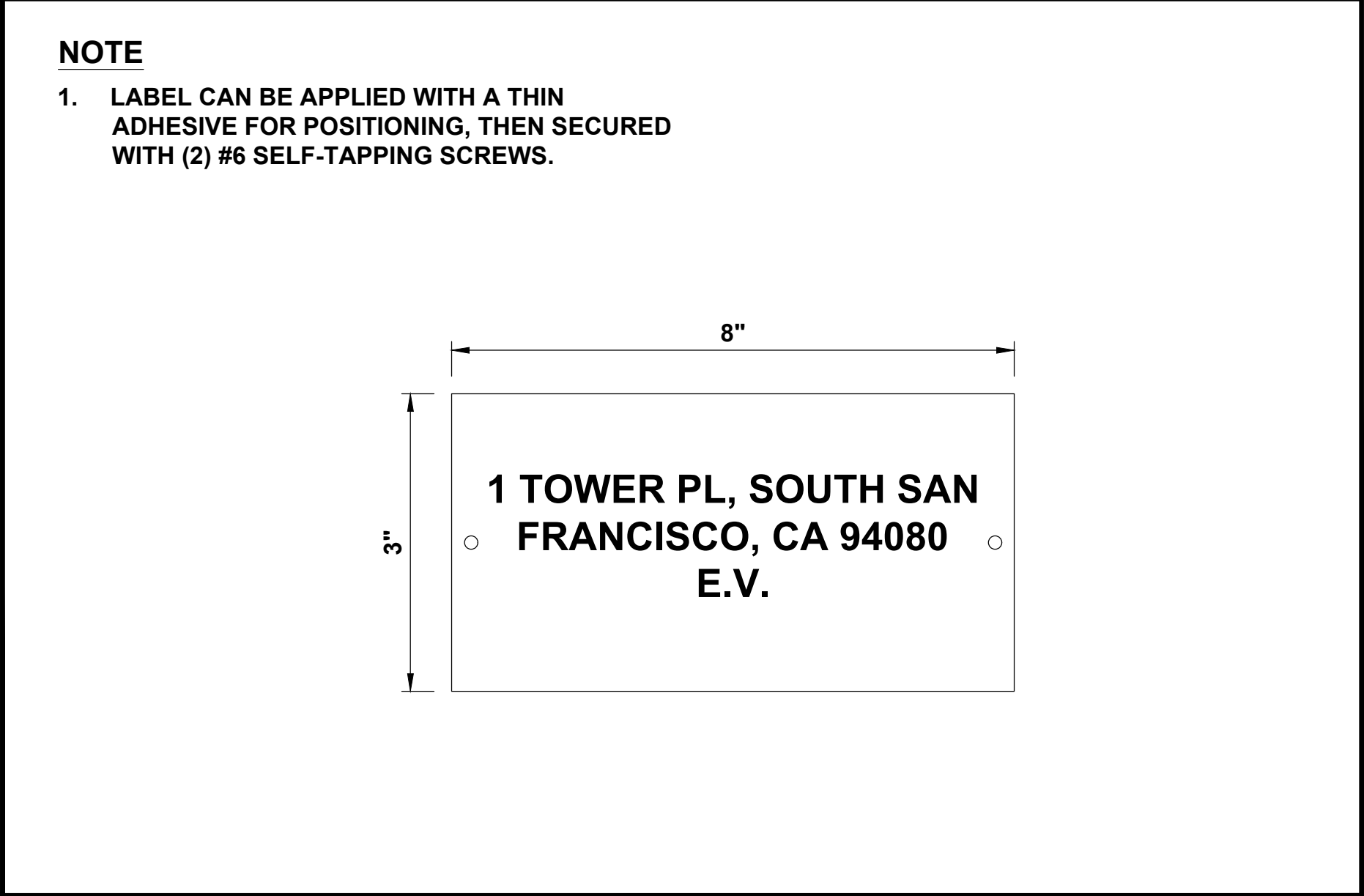
600 AMP METER PANEL	NO SCALE	4
---------------------	----------	---



PEDESTAL LABELS	NO SCALE	5
-----------------	----------	---



CONDUIT SUPPORT DETAIL	NO SCALE	6
------------------------	----------	---



PANEL LABEL DETAIL	NO SCALE	7
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PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300

CUPERTINO ELECTRIC
1132 NORTH 7TH STREET
SAN JOSE, CA 95112
(408) 808-8000
C-10 LIC. NO. 174637

CONSULTANT
Blair, Church & Flynn
Consulting Engineers
481 Davis Avenue
Suite 200
Davis, California 95612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO: 19-1-22141-00

DRAWN BY: ERIK OROZCO

CHECKED BY: ROBERT FRANCIS

REV	DATE	DESCRIPTION
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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31470885

1 TOWER PLACE

1 TOWER PL, SOUTH SAN FRANCISCO, CA 94080

SHEET TITLE

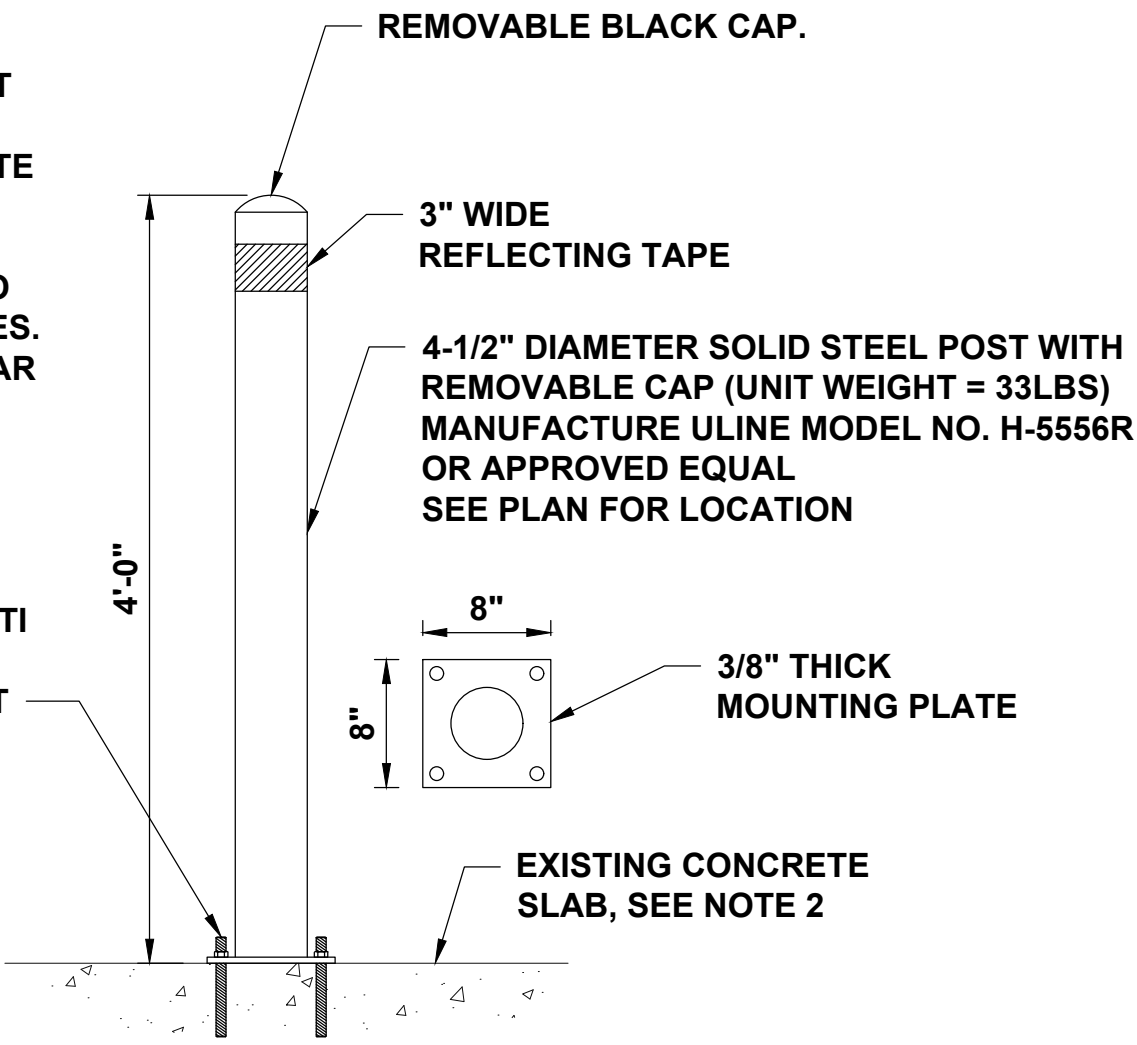
EQUIPMENT DETAILS

SHEET NUMBER

S1.0

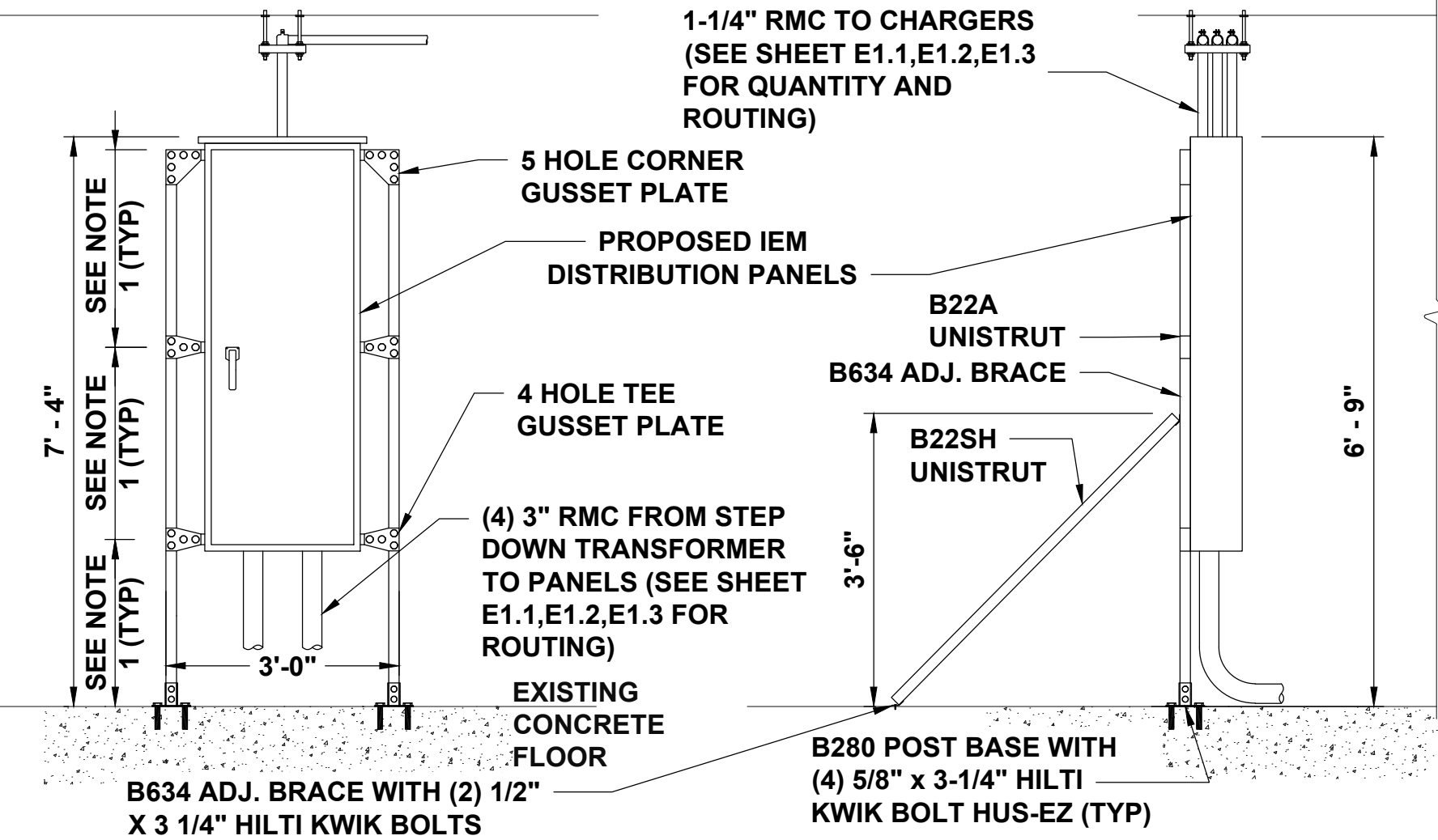
NOTE:

1. LOCATE FIXED BOLLARDS SO THAT THEY DO NOT INTERFERE WITH THE OPENING OF EQUIPMENT DOORS.
2. CONTRACTOR TO LOCATE EXISTING SLAB REINFORCEMENT WITH GPR OR X-RAY PRIOR TO DRILLING ANCHOR HOLES. CUTTING EXISTING REBAR IS NOT PERMITTED.



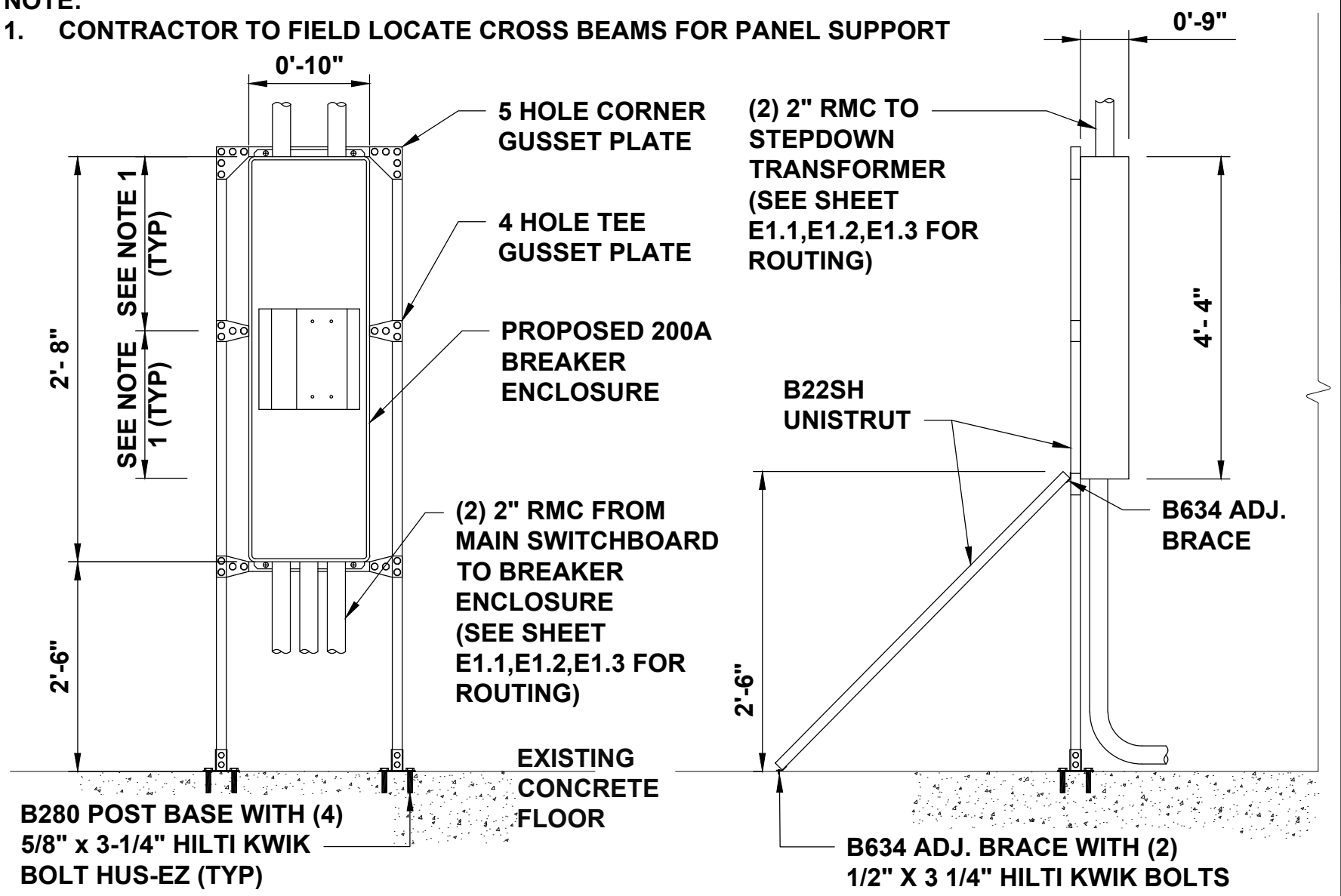
NOTE:

1. CONTRACTOR TO FIELD LOCATE CROSS BEAMS FOR PANEL SUPPORT



NOTE:

1. CONTRACTOR TO FIELD LOCATE CROSS BEAMS FOR PANEL SUPPORT



ANCHORED BOLLARD

NO SCALE

1

UNISTRUT MOUNTED DISTRIBUTION PANELS

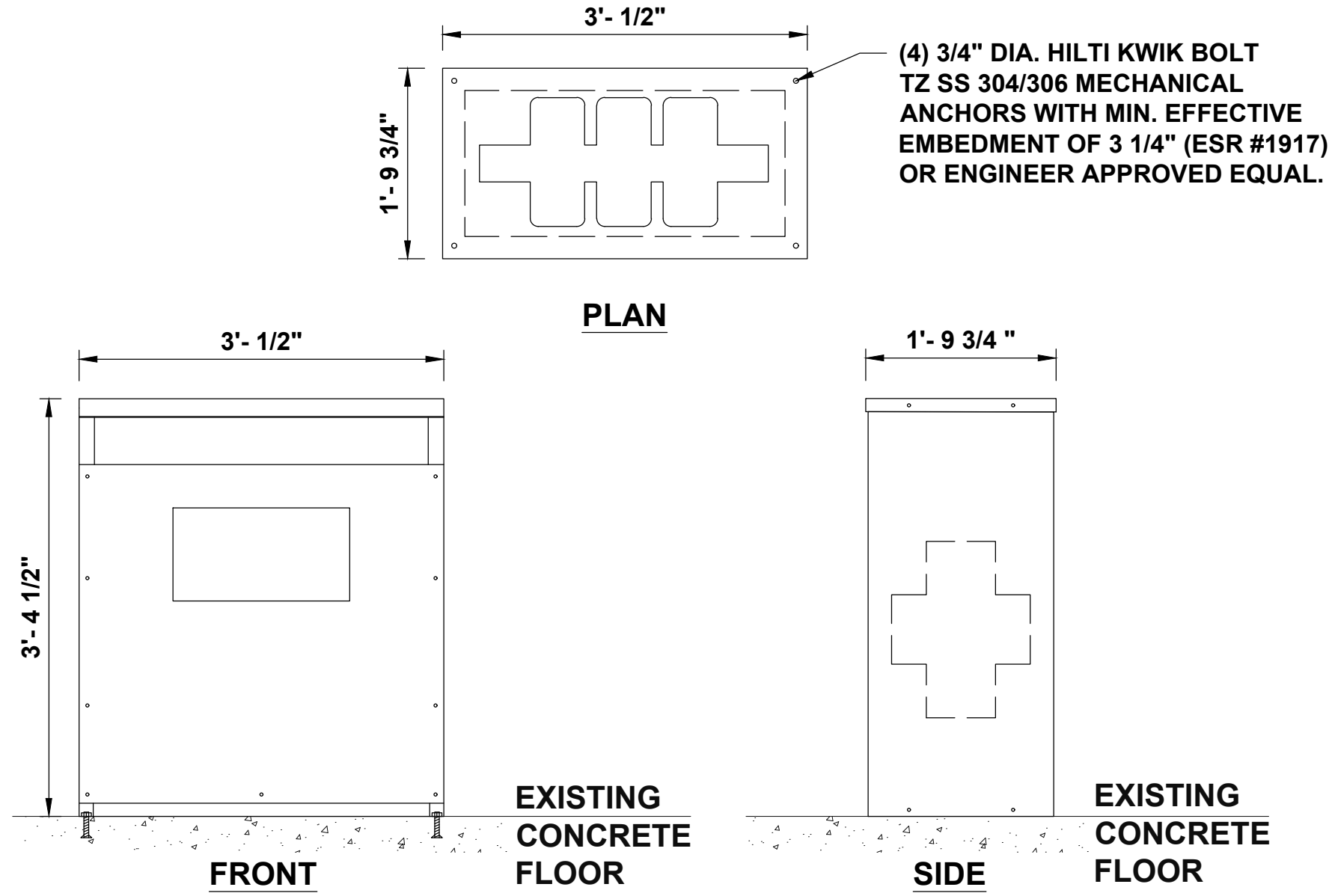
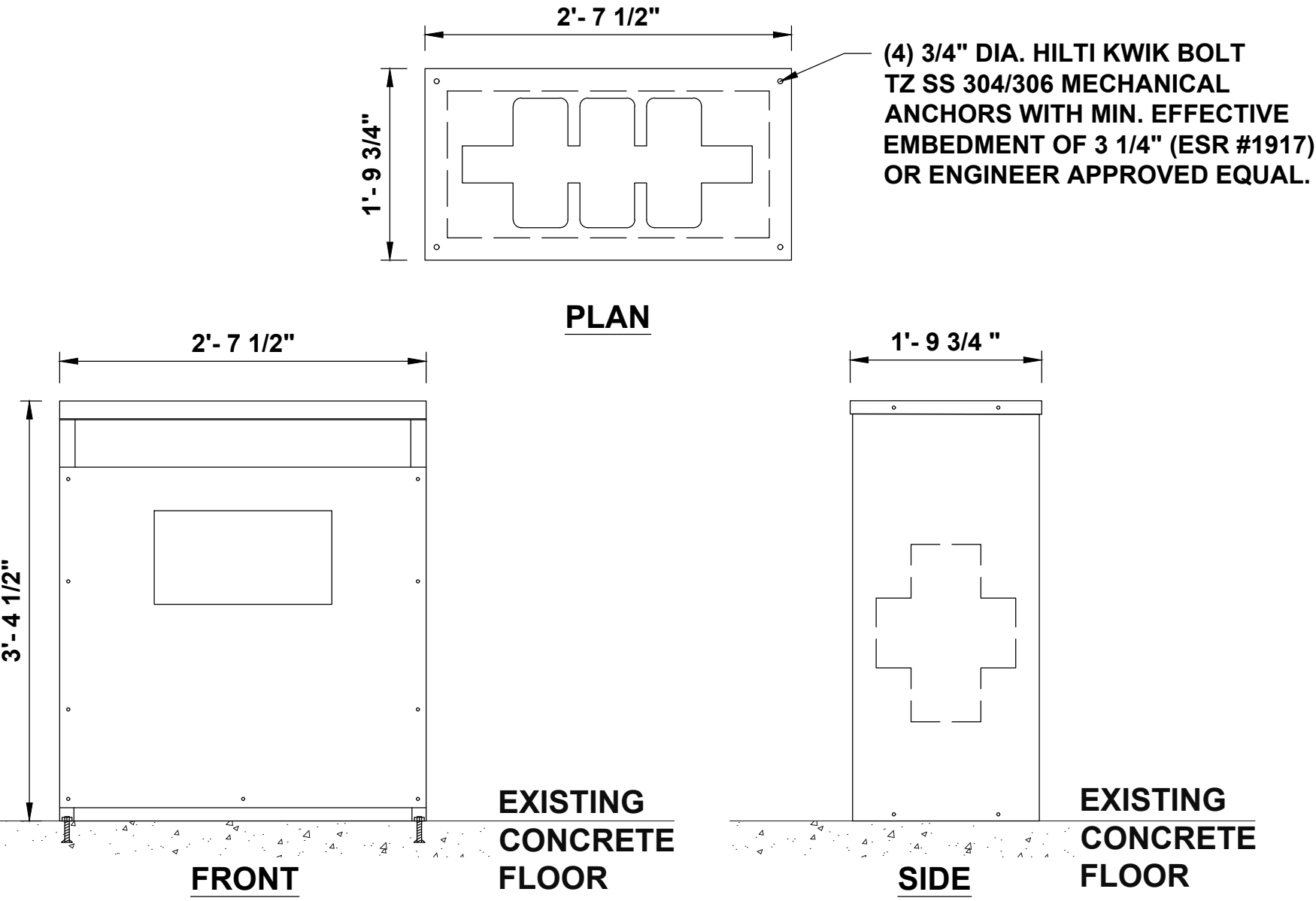
NO SCALE

2

UNISTRUT MOUNTED 200A BREAKER ENCLOSURE

NO SCALE

3



112.5KVA STEPDOWN TRANSFORMER

NO SCALE

4

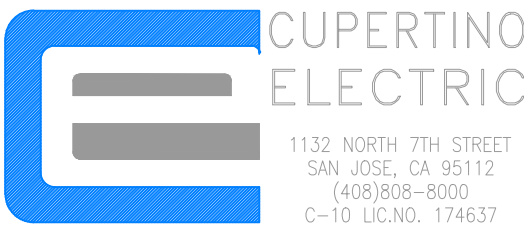
150KVA STEPDOWN TRANSFORMER

NO SCALE

5



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



CONSULTANT
Blair, Church & Flynn
Consulting Engineers
481 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1000

PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

REV	DATE	DESCRIPTION
0	04/27/2020	ISSUED FOR 100% REVIEW



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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMBER

S1.1



1

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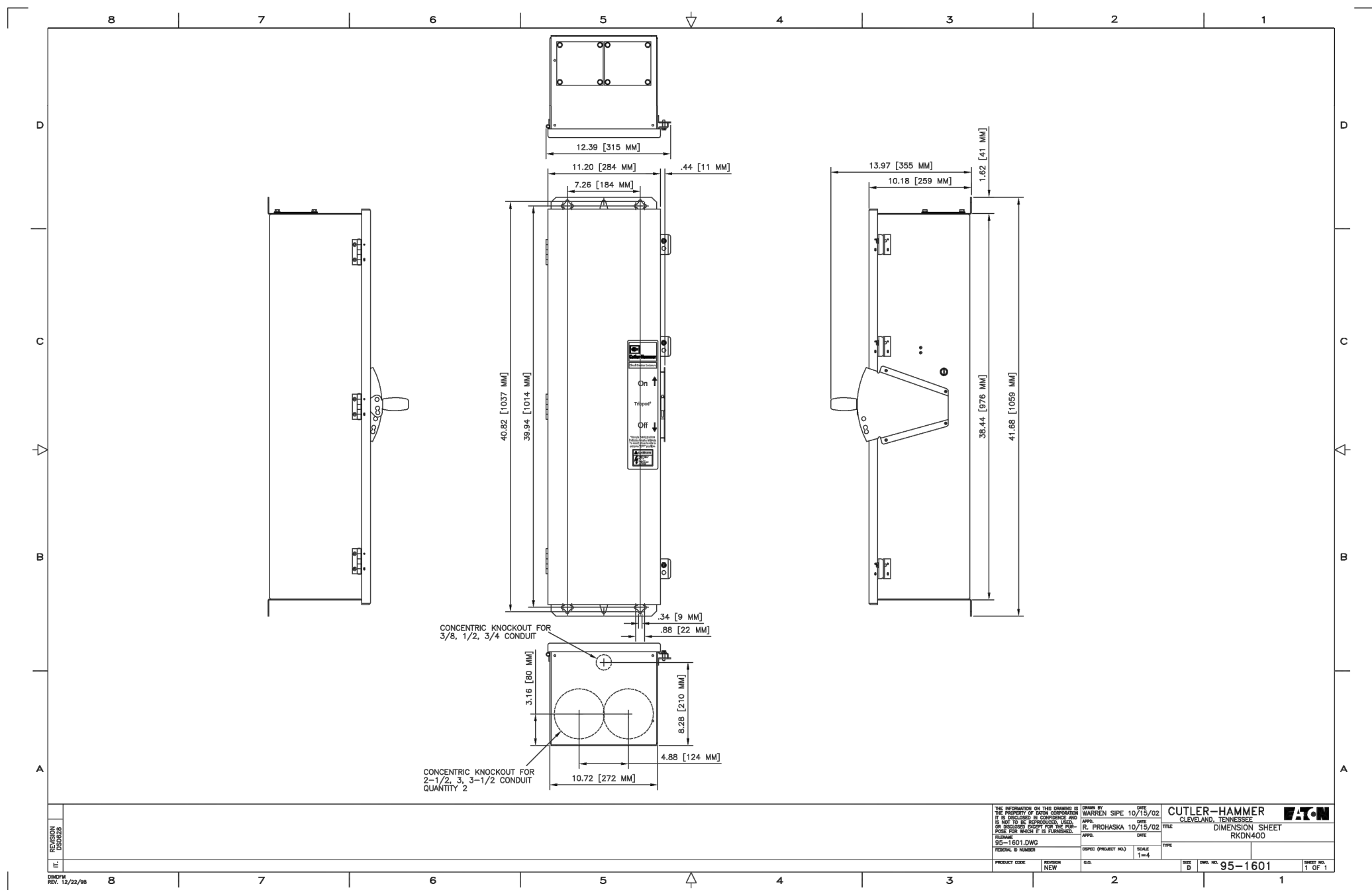
2

NO SCALE

3



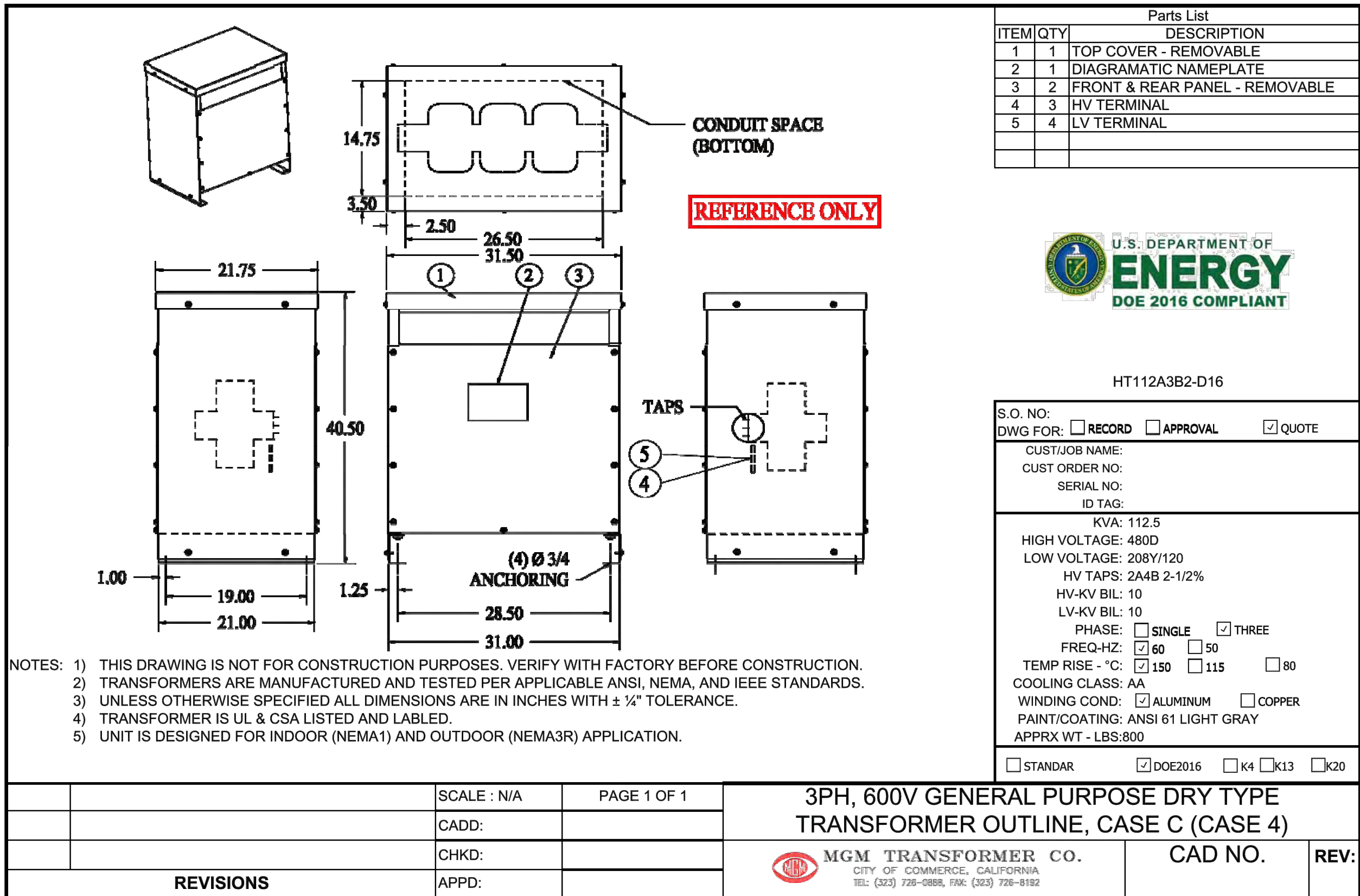
NO SCALE



200A ENCLOSED SAFETY BREAKER

NO SCALE

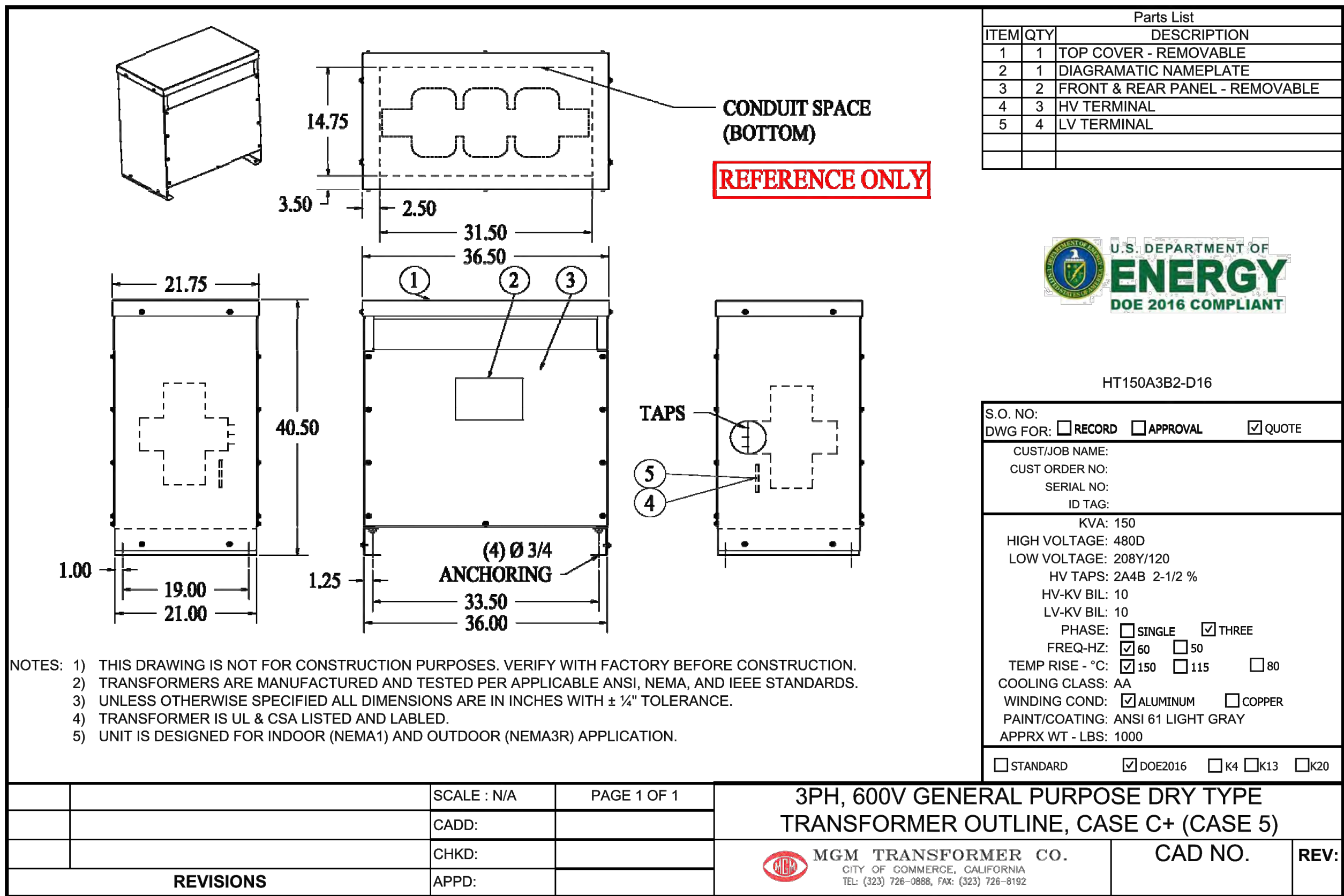
1



112.5kVA STEPDOWN TRANSFORMER

NO SCALE

2



150kVA STEPDOWN TRANSFORMER

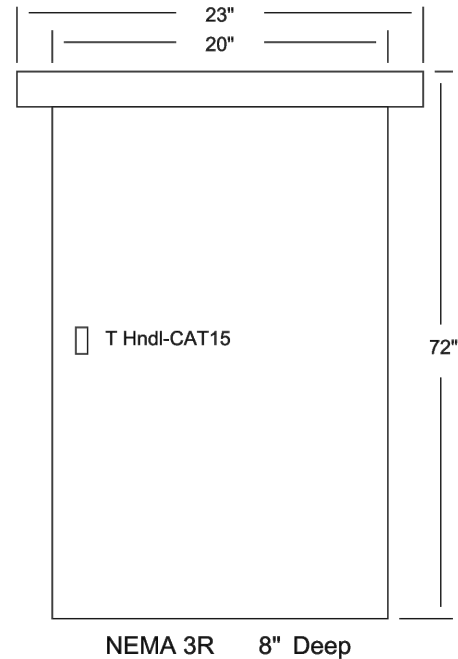
NO SCALE

3

PG&E		INDUSTRIAL ELECTRIC MFG	
SALESMAN NO. 114261	SALES OFFICE NO. 15	JOB NAME	PG&E EVCN 555 COUNTY CENTER
CUSTOMER NAME	CUPERTINO ELECTRIC (TAXA)	P.O. NO.	7172473/1912214100
Line Item # 9	Can Int Cat # 10	IEM-4PIU48-400CU Siemens Breakers	
Service: 120/208V 3P4W		Bottom Feed 400 A CU Bus	
Max Available S.C.C. (Sym. RMS): 50 KAIC		Ground: Copper Bus, cable size #14 to 1/0 AWG	
Stud Dimensions: 10 x 51		Directory: (Metal 6x8 assumed)	Screw-on Nameplates
D/F Opening: 8 x 50		Can Color: Std ANSI #61 Lt Grey	
Prepared By: JASONT		Date:	04/15/20

1 NA-600-ES		
Neutral	1 4-600 MCM or 2 1/0-250 MCM	Small Kit

1 BQD240	BQD240	2
3 * 2P *	BQD240 * 2P *	4
5 BQD240	BQD240 * 2P *	6
7 * 2P *	BQD240 * 2P *	8
9 BQD240	BQD240 * 2P *	10
11 * 2P *	BQD240 * 2P *	12
13 BQD240	BQD240 * 2P *	14
15 * 2P *	BQD240 * 2P *	16
17 BQD240	BQD240 * 2P *	18
19 * 2P *	BQD240 * 2P *	20
21 BQD240	BQD240 * 2P *	22
23 * 2P *	BQD240 * 2P *	24
25 BQD240	BQD240 * 2P *	26
27 * 2P *	BQD240 * 2P *	28
29 BQD240	BQD240 * 2P *	30
31 * 2P *	BQD240 * 2P *	32
33 BQD240	BQD240 * 2P *	34
35 * 2P *	BQD240 * 2P *	36
37 BQD240	BQD240 * 2P *	38
39 * 2P *	BQD240 * 2P *	40
41 BQD240	SPC(Max 110 Amps)	42
43 * 2P *	SPC(Max 110 Amps)	44
45 SPC(Max Combined 150 Amps)	SPC(Max Combined 150 Amps)	46
47 SPC(Max Combined 150 Amps)	SPC(Max Combined 150 Amps)	48



MCB	=JXD63B400H	Large Kit
-----	-------------	-----------

112617
107958.0

U.L. Listed per UL50 & UL67
Submittals For Can: 9
13 - 114261 Interior: 10
Sheet ___ of ___

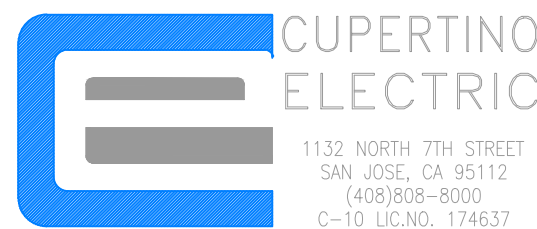
IEM 400A DISTRIBUTION PANEL

NO SCALE

4



PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300



PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

REV	DATE	DESCRIPTION
0	04/27/2020	ISSUED FOR 100% REVIEW

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PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE
REFERENCE DRAWINGS

SHEET NUMBER
R1.1

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)(2) for alterations.

Project Name: COUNTY OF SAN MATEO

Report Page: Page 1 of 5

Project Address: 555 COUNTY CENTER, REDWOOD CITY, CA 94063

Date Prepared: 03/31/20

A. GENERAL INFORMATION

01 Project Location (city)

REDWOOD CITY

02 Occupancy Types Within Project:

☐ Office

☐ Warehouse

☐ Retail

☐ Hotel/ Motel

☐ School

☐ Support Areas

☒ Parking Garage

☐ High-Rise Residential

☐ Releasatable

☐ Healthcare Facilities

☐ Other (Write In):

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work ²	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ¹	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b) and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.	Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
PANEL "A"	New electrical service equipment & meter	498	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.

² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01	02	03	04	05				
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	AND	Compliance Results
(See Table F)	AND	(See Table G)	AND	(See Table H)	AND	(See Table I)	AND	COMPLIES with Exceptional Conditions

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: COUNTY OF SAN MATEO

Report Page: Page 3 of 5

Project Address: 555 COUNTY CENTER, REDWOOD CITY, CA 94063

Date Prepared: 03/31/20

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(ii).

01	02	03	04	05
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
CT Meter and Main Switchboard	<input checked="" type="checkbox"/> Voltage drop < 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to §130.5(c)) [*]	In construction documents	R2.0	Pass Fail

^{*}NOTES If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

¹FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector
-	NA: No applicable space types on this service		<input type="checkbox"/>		Pass Fail

^{*} If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-ELC-01-E - Must be submitted for all buildings.	Pass Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: COUNTY OF SAN MATEO

Report Page: Page 2 of 5

Project Address: 555 COUNTY CENTER, REDWOOD CITY, CA 94063

Date Prepared: 03/31/20

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.

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(h). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description: PANEL "A"

01	02	03	04	05
Load Type per Table 130.5-8 ¹	Minimum Required Separation of Load per Table 130.5-8	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
Charging stations for electric vehicles	All loads in aggregate	Method 1	E1.4	Pass Fail

^{*}NOTES: If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

¹ FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.

² Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type

³ Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type

⁴ Method 3: Branch circuits serve load types individually & provisions for adding future branch circuit monitoring

⁵ Method 4: Complete metering system measures and reports loads by type

See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: COUNTY OF SAN MATEO

Report Page: Page 4 of 5

Project Address: 555 COUNTY CENTER, REDWOOD CITY, CA 94063

Date Prepared: 03/31/20

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 11/19)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: COUNTY OF SAN MATEO

Report Page: Page 5 of 5

Project Address: 555 COUNTY CENTER, REDWOOD CITY, CA 94063

Date Prepared: 03/31/20

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Brian Duffy

Documentation Author Signature: 03/31/2020

Company: Blair, Church, and Flynn

Address: 451 Clovis Ave., Suite 200, Clovis, CA 93612

City/State/Zip: Clovis/CA/93612

Phone: 559-326-1400

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: Brian Duffy

Responsible Designer Signature: 03/31/2020

Company: Blair, Church, and Flynn

Address: 451 Clovis Ave., Suite 200, Clovis, CA 93612

City/State/Zip: Clovis/CA/93612

License: E22220

Phone: 559-326-1400

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

TITLE 24 DOCUMENT

Voltage Drop for Wire Runs					
Wire Run	Wire Size	Length	Vdrop	Average Vdrop	Max Vdrop
EV-1/EV-2	#6	44	0.56%	1.35%	2.17%
EV-3/EV-4	#6	39	0.50%		
EV-5/EV-6	#6	56	0.72%		
EV-7/EV-8	#6	73	0.93%		
EV-9/EV-10	#6	90	1.15%		
EV-11/EV-12	#6	108	1.38%		
EV-13/EV-14	#6	125	1.60%		
EV-15/EV-16	#6	150	1.92%		
EV-17/EV-18	#6	80	1.02%		
EV-19/EV-20	#6	63	0.81%		
EV-21/EV-22	#6	47	0.60%		
EV-23/EV-24	#6	65	0.83%		
EV-25/EV-26	#6	82	1.05%		
EV-27/EV-28	#6	99	1.27%		
EV-29/EV-30	#6	117	1.50%		
EV-31/EV-32	#6	134	1.71%		
EV-33/EV-34	#6	151	1.93%		
EV-35/EV-36	#6	170	2.17%		
EV-37/EV-38	#4	187	1.56%		
EV-39	#4	209	1.74%		
EV-40/EV-41	#6	73	0.93%		
EV-42	#6	61	0.78%		
EV-43/EV-44	#6	44	0.56%		
EV-45/EV-46	#6	61	0.78%		
EV-47/EV-48	#6	78	1.00%		
EV-49/EV-50	#6	95	1.21%		
EV-51/EV-52	#6	112	1.43%		
EV-53/EV-54	#6	130	1.66%		
EV-55/EV-56	#6	147	1.88%		
EV-57/EV-58	#6	169	2.16%		
EV-59/EV-60	#4	186	1.55%		
TO CKT BKR B	#3/0	127	0.60%		
TO XFMR B	#3/0	26	0.40%		
TO PANEL B	#3/0	26	0.30%		
TO CKT BKR C	#3/0	148	0.70%		
TO XFMR C	#3/0	26	0.40%		
TO PANEL C	#3/0	26	0.30%		
TO CKR BKR D	#3/0	169	0.80%		
TO XFMR D	#3/0	26	0.40%		
TO PANEL D	#3/0	26	0.30%		

PACIFIC GAS AND ELECTRIC COMPANY
P.O. BOX 997300
SACRAMENTO, CA 95899-7300

PROJECT NO: 19-1-22141-00
DRAWN BY: ERIK OROZCO
CHECKED BY: ROBERT FRANCIS

0	04/27/2020	ISSUED FOR 100% REVIEW
REV	DATE	DESCRIPTION

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PG&E ACCEPTANCE STAMP

PG&E PROJECT # 31471119
COUNTY OF SAN MATEO
555 COUNTY CENTER,
REDWOOD CITY, CA 94063

SHEET TITLE

TITLE 24 DOCUMENT

SHEET NUMBER

R2.0