

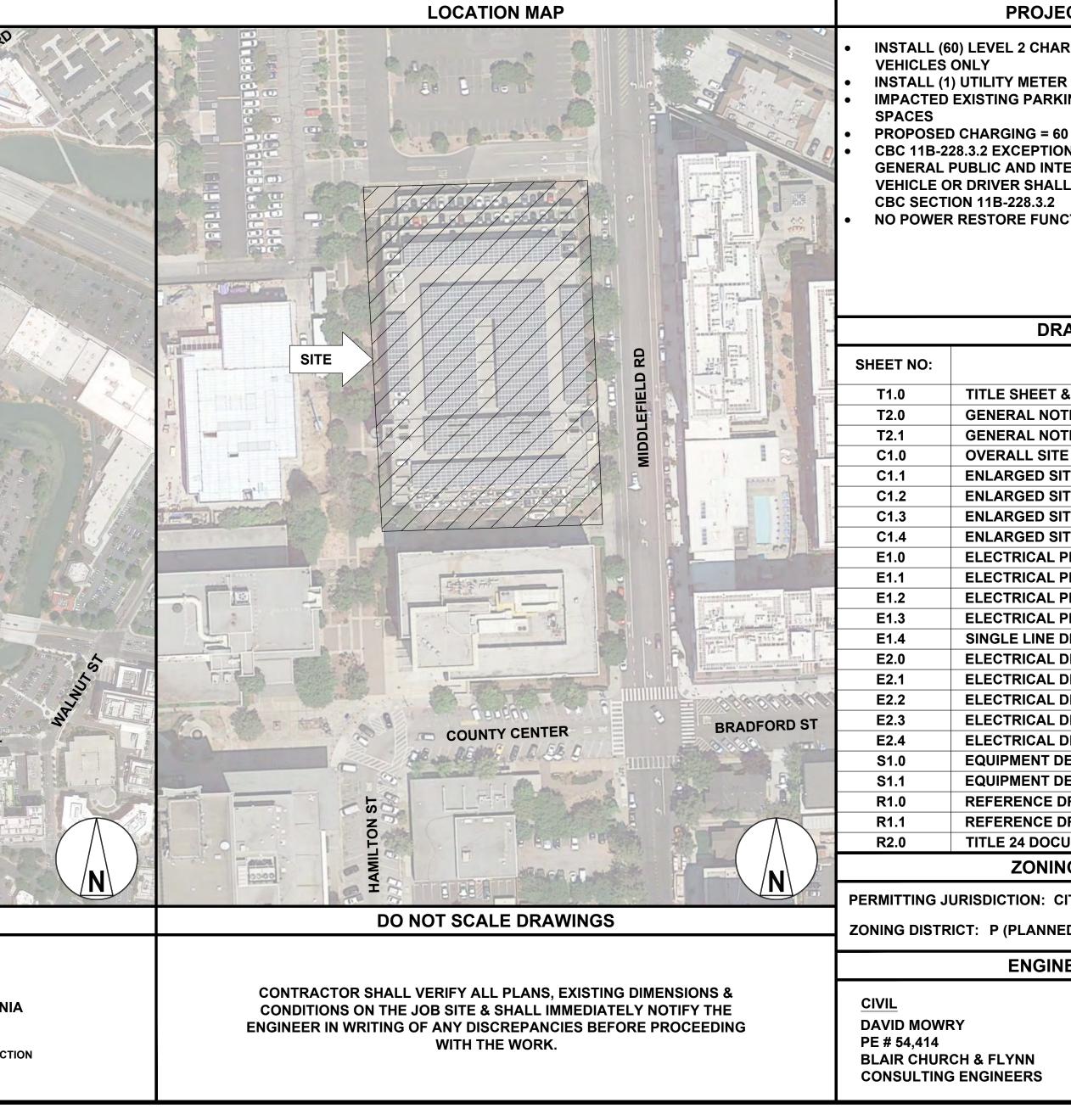
PG&E PROJECT # 31471119 COUNTY OF SAN MATEO INSTALLATION OF ELECTRIC VEHICLE LEVEL 2 CHARGING EQUIPMENT 555 COUNTY CENTER, REDWOOD CITY, CA 94063

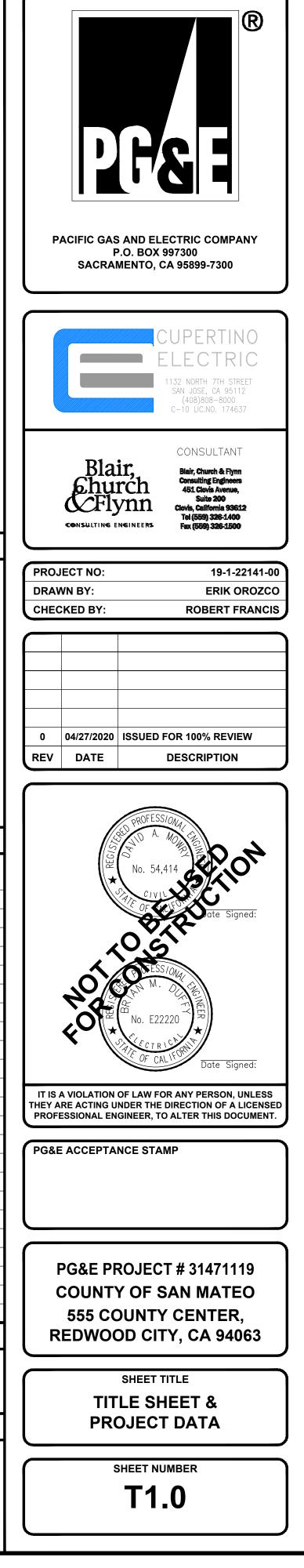
AREA MAP

EV SITE ADDRESS: POWER COMPANY: PG&E **555 COUNTY CENTER.** E BAYSHORE RD **REDWOOD CITY, CA 94063** COUNTY: **PROPERTY OWNER:** BAYSHORE FREEWAY 101 SAN MATEO **COUNTY OF SAN MATEO** LATITUDE (NAD83) 555 COUNTY CENTER, CONVENTION **REDWOOD CITY, CA 94063** 37° 29' 20.3928" N (650) 363-4343 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 MAIN SHALL PREVAIL S **PROJECT TEAM** LEAD CIVIL ENGINEER: LEAD ELECTRICAL ENGINEER: BLVD **DAVID MOWRY BRIAN DUFFY** (559) 326-1400 (559) 326-1400 DMOWRY@BCF-ENGR.COM BDUFFY@BCF-ENGR.COM PG&E PROJECT MANAGER CEI PROJECT MANAGER OMAR GONZALEZ JUSTIN CHEUNG 0 (408) 799-4065 (408) 482-7231 OMAR_GONZALEZ@CEI.COM JW1V@PGE.COM SITE PULLERIONST FLOOD HAZARD AREA NOTE PROJECT SITE LOCATED WITHIN FLOOD HAZARD ZONE **BRADFORD ST** COUNTY CENTER X (0.2 PCT ANNUAL CHANCE FLOOD HAZARD) AND 'ZONE AE' (WITH BASE FLOOD ELEVATION OF 10') FIRM PANEL: 06081C0301F MAP EFFECTIVE DATE: APRIL 5, 2019 MAP IS COUNTYWIDE, PANEL PRINTED UTILITY METER INSTALLED INSIDE OF THE PARKING MARSHALL ST GARAGE AND WITHIN FLOOD ZONE X. LEVEL 2 EV CHARGES INSTALLED ON THE 2ND, 3RD, AND 4TH LEVEL OF THE PARKING GARAGE ABOVE THE BASE FLOOD ELEVATION OF 10'. **CALL BEFORE YOU DIG** SEE SHEET C1.1 FOR FLOOD ZONE BOUNDARIES. CONTRACTOR NOTE UNDERGROUND SERVICE ALERT CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED UTILITY NOTIFICATION CENTER OF CALIFORNIA AND THE SEALED SET OF DRAWINGS. ANY NECESSARY 811 OR 1-800-227-2600 **DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED** HROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR **3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION** AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A

SITE INFORMATION

DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.





PROJECT DESCRIPTION

INSTALL (60) LEVEL 2 CHARGING PORTS FOR USE BY FLEET

IMPACTED EXISTING PARKING = 60 TOTAL SPACES; 60 STANDARD

PROPOSED CHARGING = 60 TOTAL SPACES; 60 STANDARD EVSE CBC 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

NO POWER RESTORE FUNCTIONALITY AND NO HAZMAT CONCERNS

DRAWING INDEX	
SHEET TITLE	REV NO:
HEET & PROJECT DATA	0
AL NOTES	0
AL NOTES	0
LL SITE PLAN	0
GED SITE PLAN - GROUND LEVEL	0
GED SITE PLAN - SECOND LEVEL	0
GED SITE PLAN - THIRD LEVEL	0
GED SITE PLAN - FOURTH LEVEL	0
RICAL PLAN - GROUND LEVEL	0
RICAL PLAN - SECOND LEVEL	0
RICAL PLAN - THIRD LEVEL	0
RICAL PLAN - FOURTH LEVEL	0
	0
RICAL DETAILS - PANEL A	0
RICAL DETAILS - PANEL B	0
RICAL DETAILS - PANEL C	0
RICAL DETAILS - PANEL D	0
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4 DOCUMENT	0
ZONING INFORMATION	

PERMITTING JURISDICTION: CITY OF REDWOOD CITY

ZONING DISTRICT: P (PLANNED COMMUNITY DISTRICT)

ENGINEER OF RECORD

ELECTRICAL **BRIAN DUFFY** PE # E 22220 **BLAIR CHURCH & FLYNN CONSULTING ENGINEERS**

	ABBREVIATIONS		SYMBOLS	GI	ENERAL CONSTRUCTION
				1.	FOR THE PURPOSE OF CONST GENERAL CONTRACTOR.
1P	ONE POLE (2,3,4 APPLICABLE)		7		CONTRACTOR: (CONSTRUCTION SPONSOR: PACIFIC GAS & ELE
A AC	AMPERE ALTERNATING CURRENT		STEP DOWN TRANSFORMER		
AT	AMPERE TRIP (RATING)			2.	THE GENERAL CONTRACTOR
ATS AWG	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE				SHALL BE RESPONSIBLE FOR
BIL	BASIC IMPULSE LEVEL		FIXED MOUNT CIRCUIT BREAKER		CONDITIONS, DIMENSIONS, AN
C					TO PROCEEDING WITH CONST THE ENGINEER PRIOR TO THE
CBC CEC	CALIFORNIA BUILDING CODE CALIFORNIA ELECTRICAL CODE OR		DISCONNECT SWITCH		
	CALIFORNIA ENERGY COMMISSION			3.	
CMIL CT	CIRCULAR MIL CURRENT TRANSFORMER		FUSED DISCONNECT SWITCH		CODES, REGULATIONS, AND C NOTICES AND COMPLY WITH A
DC	DIRECT CURRENT		FUSE		ANY PUBLIC AUTHORITY REG
EGC	EQUIPMENT GROUNDING CONDUCTOR		FUSE	Δ	ALL WORK CARRIED OUT SHA
EMT EPR	ELECTRICAL METALLIC TUBING ETHYLENE PROPYLENE RUBBER	(M)	METER		SPECIFICATIONS AND LOCAL
EVCS	ELECTRIC VEHICLE CHARGING STATION			5.	UNLESS NOTED OTHERWISE, 1
FBO FLA	FURNISHED BY OTHERS FULL LOAD AMPS		LIGHT POLE	5.	APPURTENANCES, AND LABO
FO	FIBER OPTIC				DRAWINGS.
FT FWE	FEET FURNISHED WITH EQUIPMENT	Æ	ELECTRIC METER	6.	PLANS ARE NOT TO BE SCALE
GEC	GROUND ELECTRODE CONDUCTOR				UNLESS OTHERWISE NOTED.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	EB	ELECTRIC BOX		SPACING BETWEEN EQUIPMEN FIELD VERIFY DIMENSIONS, SH
G, GND IMC	GROUND INTERMEDIATE METAL CONDUIT				THE CONTRACTOR SHALL BE
ISC	SHORT CIRCUIT CURRENT	↓	GUYWIRE		TO PROCEEDING WITH THE WO BE REQUIRED TO SUIT JOB DI
kAIC KV	KILOAMPERE INTERRUPTING CAPACITY KILO VOLT		UTILITY POLE		AS PART OF WORK AND PREP
KVA	KILOVOLTAMPERE			_	
ĸw		TVL	TELEPHONE VAULT	7.	THE CONTRACTOR SHALL INS MANUFACTURER'S RECOMME
KWH LB	KILOWATTHOUR POUND				
LSIG	ELECTRONIC TRIP DEVICE		TELEPHONE PEDESTAL	8.	IF THE SPECIFIED EQUIPMENT SHALL PROPOSE AN ALTERNA
L	LONG TIME TRIP SHORT TIME TRIP				PROCEEDING.
S I	INSTANTANEOUS	A	GAS METER		
G	GROUND FAULT TRIP			9.	THE GENERAL CONTRACTOR
Α	GROUND FAULT ALARM	-0-	SIGN		WORK SHALL CONFORM TO A
L-G	LINE TO GROUND VOLTAGE	ST ST		10	THE GENERAL CONTRACTOR
L-L L-N	LINE TO LINE VOLTAGE LINE TO NEUTRAL VOLTAGE	1 SYO	FIRE HYDRANT		DISCIPLINES.
M	METER		BOLLARD	11	WORK PREVIOUSLY COMPLET
MBJ	MAIN BONDING JUMPER	0	BULLARD	"	WORK FREVIOUSET COMPLET
MCB MLO	MAIN CIRCUIT BREAKER MAIN LUG ONLY	63	SANITARY MANHOLE		NOTIFY THE GENERAL CONTR
MVA	MEGA VOLT AMPERE				PRIOR TO BEGINNING CONSTR
N NEC	NEUTRAL NATIONAL ELECTRICAL CODE		CLEANOUT	12.	THE CONTRACTOR SHALL PRO
NTS	NOT TO SCALE				TO COMMENCEMENT OF WOR
OH PB	OVERHEAD PULLBOX		STORM MANHOLE	13.	THE CONTRACTOR SHALL PRO
РБ PT	POLLBOX POTENTIAL TRANSFORMER				STRUCTURES.
PVC	POLYVINYL CHLORIDE (FOR CONDUIT)		STORM INLET	14.	THE CONTRACTOR SHALL CO
R RGS	RELAY RIGID STEEL CONDUIT				CONSTRUCTION.
SCCR	SHORT-CIRCUIT CURRENT RATING	H	WATER VALVE	15.	THE GENERAL CONTRACTOR
SCH SLD	SCHEDULE (FOR CONDUIT) SINGLE LINE DIAGRAM	(ICV)	IRRIGATION CONTROL VALVE		CONTRACTORS TO THE SITE A
SSBJ	SUPPLY SIDE BONDING JUMPER			16.	THE GENERAL CONTRACTOR
SPD SW	SURGE PROTECTIVE DEVICE SWITCH		WATER METER		CONSTRUCTION UNTIL JOB CO
SW SWGR	SWITCH SWITCHGEAR			17	THE GENERAL CONTRACTOR
ТҮР	TYPICAL		TELEPHONE MANHOLE		ALL REVISIONS, ADDENDA, AN
UG V	UNDERGROUND VOLT			10	THE CONTRACTOR SHALL PRO
<u> </u>		CVL	CABLE TV VAULT	18.	2-A:10-B:C AND SHALL BE WIT
1	LINETYPES				IS BEING COMPLETED DURING
			TRAFFIC SIGNAL CONTROL BOX	19	ALL EXISTING ACTIVE SEWER
	BUS (PHASE, NEUTRAL, OR GROUND)		TRAFFIC DELINEATOR		ALL TIMES, AND WHERE REQU
	"N" INDICATES NEUTRAL BUS, "G" INDICATES GROUND BUS		IRAFFIC DELINEATOR		DIRECTED BY THE ENGINEER. EXCAVATING OR DRILLING PIE
			EXISTING TREE (CONIFEROUS)		TRAINING FOR THE WORKING
		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2			CONFINED SPACE, C) ELECTR
			EXISTING TREE (DECIDUOUS)	20.	ALL EXISTING INACTIVE SEWE
		the destroy			THE EXECUTION OF THE WOR
			EXISTING BUSH		AT POINTS WHICH WILL NOT IN ENGINEER, AND SUBJECT TO
F				_	·
				21.	THE AREAS OF THE OWNER'S OR DRIVEWAY, SHALL BE GRA
L L					
с — С	5 — CAT5 CABLE LINE (P)			22.	CONTRACTOR SHALL MINIMIZ
l (FEDERAL AND LOCAL JURISD
S8	&C SECONDARY (P) AND COMMUNICATION (P)			00	
1	FLOOD ZONE			23.	NO FILL OR EMBANKMENT MA OR ICE SHALL NOT BE PLACE
	BOUNDARY LINE			24.	THE SUBGRADE SHALL BE BR
					STANDARD PROCTOR DENSIT

NOTES

TRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY

ION) ECTRIC CO.

SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR R FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD ND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR. STRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF E COMMENCEMENT OF WORK.

AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF GARDING THE PERFORMANCE OF WORK.

ALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.

THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT OR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE

ED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED ENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE. IT IS CRITICAL TO SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, ERESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR VORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED PARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

STALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH ENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

T CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR IATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO

SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.

SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER

TED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL RACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS RUCTION.

ROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR

ROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND

ONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF

SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND AND/OR BUILDING.

SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF COMPLETION.

R SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.

ROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN THIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IG CONSTRUCTION.

R, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT UIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS . EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN IERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY G CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) RICAL SAFETY, AND D) TRENCHING & EXCAVATION.

/ER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH RK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.

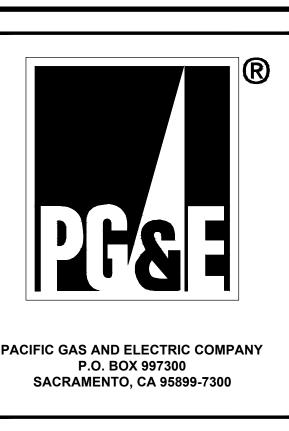
S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT ADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.

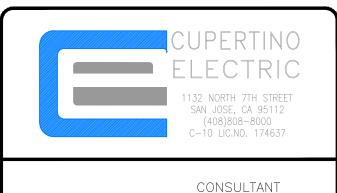
ZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION QUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE DICTION FOR EROSION AND SEDIMENT CONTROL.

ATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW ED IN ANY FILL OR EMBANKMENT. ROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT TY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD

PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.

- 25. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 26. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 27. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT. SERIAL NUMBER SHALL **BE INCLUDED FOR SPONSOR SITES.**
- 28. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 29. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- 30. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 31. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 32. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- ELECTRICAL NOTES 1. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS. CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- 2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALI CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM. SHALL BE VERIFIED BY THE CONTRACTOR. PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITION OF THE NEC/CEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL **INCLUDE BUT NOT BE LIMITED TO:**
- A. UL UNDERWRITERS LABORATORIES
- **NEC NATIONAL ELECTRICAL CODE** В.
- **CEC CALIFORNIA ELECTRICAL CODE** NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
- **OSHA OCCUPATIONAL SAFETY AND HEALTH ACT**
- SBC STANDARD BUILDING CODE
- **NFPA NATIONAL FIRE PROTECTION ASSOCIATION**
- 4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- 5. EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- 6. THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- 8. THE CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS WHERE COLOR CODED WIRE INSULATION IS UNAVAILABLE, PROVIDE PHASE TAPE TO IDENTIFY CONDUCTORS.
- 10. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND **RECOMMENDATIONS.**
- 11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- 13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND SUBJECT TO **REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.**
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.



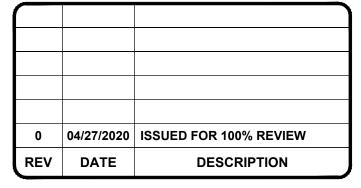


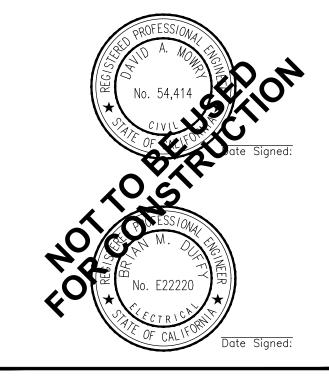




PROJECT NO: DRAWN BY: CHECKED BY:

19-1-22141-00 **ERIK OROZCO** ROBERT FRANCIS





IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSE 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

GENERAL NOTES

SHEET NUMBER

T2.0

ELECTRICAL NOTES CONT.

- 15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE 4. 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 A. 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 E. 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.

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- 9

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- 1.3

- C.
- D.

PAR

	NFORCED CONCRETE NOTES CONT.		INERAL SITE WORK NOTES CONT.		ENERAL SITE WORK NO
l	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.	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		TRENCH BACKFILL: PROVIDE GRANULAR BEDDIN
	MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.		DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT MH, CH, OH, ML, AND OL	в.	DRAWINGS AND THE UTILITY
		PA	RT 3 - EXECUTION		BACKFILLING.
	DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.	3.1	GENERAL:	C.	CONDUCT UTILITY CHECK TE COMPACT TRENCH BEFORE
,	WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.	Α.	BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE	D.	PLACE GRANULAR TRENCH E CONDUITS IN 6-INCH UNCOM
	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.		CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.		CONDUITS. SOLIDLY RAM AN CONDUITS.
	DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL - 2004, PUBLICATION SP-66" AND "BUILDING CODE REQUIREMENTS FOR	В.	BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.		PROTECT CONDUIT FROM LA UNBALANCED LOADING.
	REINFORCED CONCRETE", ACI 318-08.	C.	CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE	F.	ABOVE THE CONDUIT EMBED SATISFACTORY BACKFILL M
	IERAL SITE WORK NOTES		TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.		THICKNESS LIFTS TO RESTOR
		D.	REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE		THAN THAT OF THE EXISTING ADJACENT TO THE TRENCH
JB	ARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, GRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE		SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.		
IE	PROPOSED WORK SHOWN IN THESE PLANS.			3.5	FINISH GRADING:
I	REFERENCES:	E.	EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.	Α.	PERFORM ALL GRADING TO F STRUCTURES AND SMOOTH, AREA WITHIN THE LIMITS OF
	DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD	F.	REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL		COMPATIBLE WITH ALL SURF
	SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION). ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).		DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING	В.	UTILIZE SATISFACTORY FILL
	OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).		WILL NOT BE PERMITTED.		WORK IN THE CONSTRUCTIO REPLACEMENT OF REMOVED
2	NSPECTION AND TESTING:	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	C.	REPAIR ALL ACCESS ROADS COURSE OF THIS WORK TO T
	GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE		LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED		
,	PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR, ETC).		CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.	3.6	ASPHALT PAVING ROAD: CALIFORNIA STANDARD SF SECTION 39 - CALIFORNIA I
3 5	SITE MAINTENANCE AND PROTECTION:	Н.	SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR	Δ	CONTRACTOR RESPONSIBLE
I	KEEP SITE FREE OF ALL PONDING WATER.		BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.		SEALCOATING, UNLESS OTH
	PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.	•			
	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.		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. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE		
	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	D.	REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.		
	AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.	C.	DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.		
	PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.	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.		
	<u>T 2 - PRODUCTS</u> GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:				
1	GRANULAR BACKFILL: SHALL MEET THE FULLOWING GRADATION:	Е.	WHENEVER TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PACED		
	SIEVE SIZE TOTAL PERCENT PASSING		UNTIL THE REQUIREMENTS ARE MET, UNLESS OTHERWISE AUTHORIZED BY		
	1 1/2 INCH (37.5 MM) 100		THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTIONS NECESSARY SUCH AS DRYING, ADDING WATER,		
	1 INCH (25.0 MM) 75 TO 100		INCREASING THE COMPACTIVE EFFORT TO MEET COMPACTION REQUIREMENTS		
	3/4 INCH (19.0 MM) 80 TO 100				
	3/8 INCH (9.5 MM) 35 TO 75	3.3	TRENCH EXCAVATION:		
	NO. 4 (4.75 MM) 30 TO 60	Α.	UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES		
	NO. 30 (0.600 MM) 7 TO 30		SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED		
	NO 200 (0.075 MM) 3 TO 15		TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.		
2	GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).	В.	EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.		
3	COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.	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.		

- 2.2
- 2.3

OTES CONT.

DING MATERIAL IN ACCORDANCE WITH THE TY REQUIREMENTS.

ITRACTOR 24 HOURS IN ADVANCE OF

TESTS BEFORE BACKFILLING. BACKFILL AND E ACCEPTANCE TESTING.

H BACKFILL UNIFORMLY ON BOTH SIDES OF THE MPACTED LIFTS UNTIL 12 INCHES OVER THE AND TAMP BACKFILL INTO SPACE AROUND

LATERAL MOVEMENT, IMPACT DAMAGE, OR

EDMENT ZONE, PLACE AND COMPACT MATERIAL IN 8-INCH MAXIMUM LOOSE ORE THE REQUIRED FINISHED SURFACE GRADE.

BACKFILL TO A DENSITY EQUAL TO OR GREATER NG UNDISTURBED MATERIAL IMMEDIATELY

O PROVIDE POSITIVE DRAINAGE AWAY FROM H, EVEN SURFACE DRAINAGE OF THE ENTIRE OF CONSTRUCTION. GRADING SHALL BE RROUNDING TOPOGRAPHY AND STRUCTURES.

LL MATERIAL RESULTING FROM THE EXCAVATION ION OF FILLS, EMBANKMENTS AND FOR ED UNSUITABLE MATERIALS.

DS AND SURROUNDING AREAS USED DURING THE) THEIR ORIGINAL CONDITION.

SPECIFICATIONS A DEPARTMENT OF TRANSPORTATION PAVEMENT

LE FOR RE-STRIPING AND APPLYING THERWISE SPECIFIED.







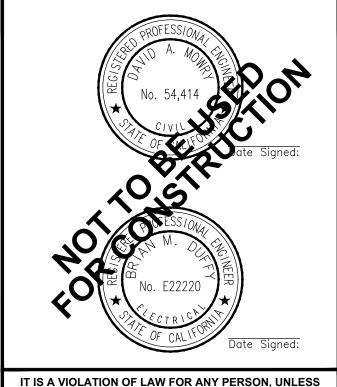
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

CONSULTANT

PROJECT NO: DRAWN BY: CHECKED BY:

19-1-22141-00 **ERIK OROZCO ROBERT FRANCIS**

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



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

PG&E ACCEPTANCE STAMP

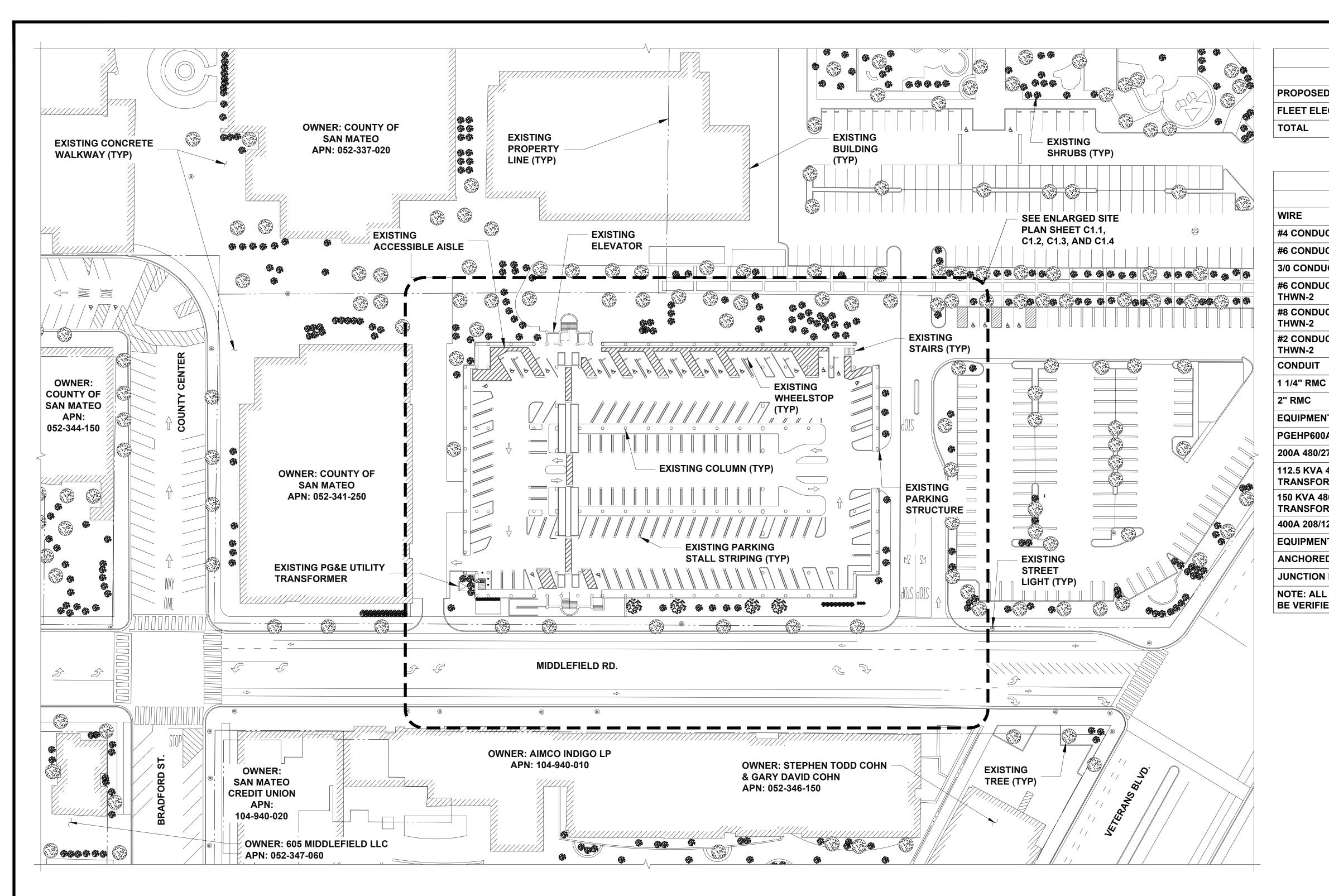
PG&E PROJECT # 31471119 COUNTY OF SAN MATEO 555 COUNTY CENTER, **REDWOOD CITY, CA 94063**

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

T2.1



CHARGING TABULATION	
TYPE OF STALL	STALLS
D EV CHARGING STALLS	
	60
	60

BILL OF MATERIALS					
MATERIAL	UNIT	QUANTITY			
CTOR THWN-2	LF	2,111			
CTOR THWN-2	LF	12,200			
JCTOR THWN-2	LF	2,410			
CTOR GRN INSULATION	LF	643			
CTOR GRN INSULATION	LF	3,084			
CTOR GRN INSULATION	LF	744			
;	LF	3,727			
	LF	678			
IT					
A/480/277V METER	EACH	1			
77V ENCLOSED BREAKER	EACH	3			
480-208/120V STEPDOWN RMER	EACH	1			
80-208/120V STEPDOWN RMER	EACH	2			
20V DISTRIBUTION PANEL	EACH	3			
IT FOUNDATION	SF	44			
D BOLLARD	EACH	12			
BOX	EACH	31			
QUANTITIES ARE ESTIMATED AND SHOULD ED BY THE CONTRACTOR					

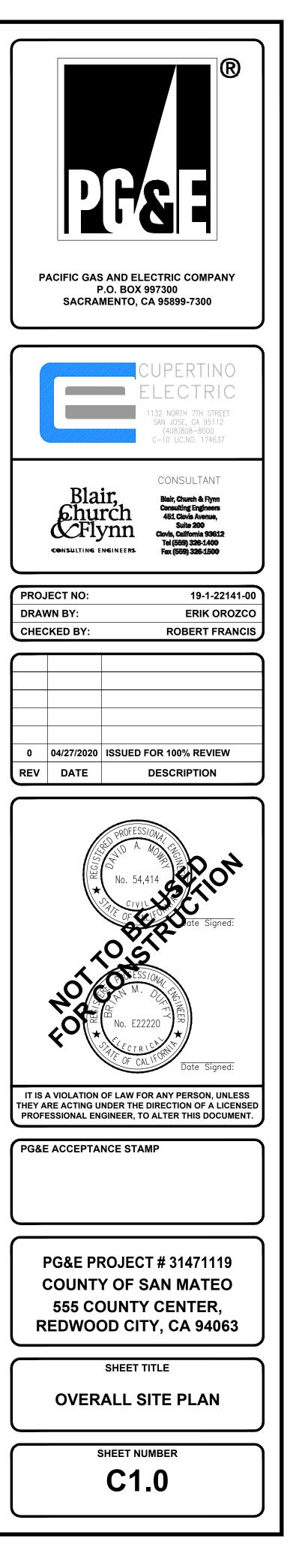
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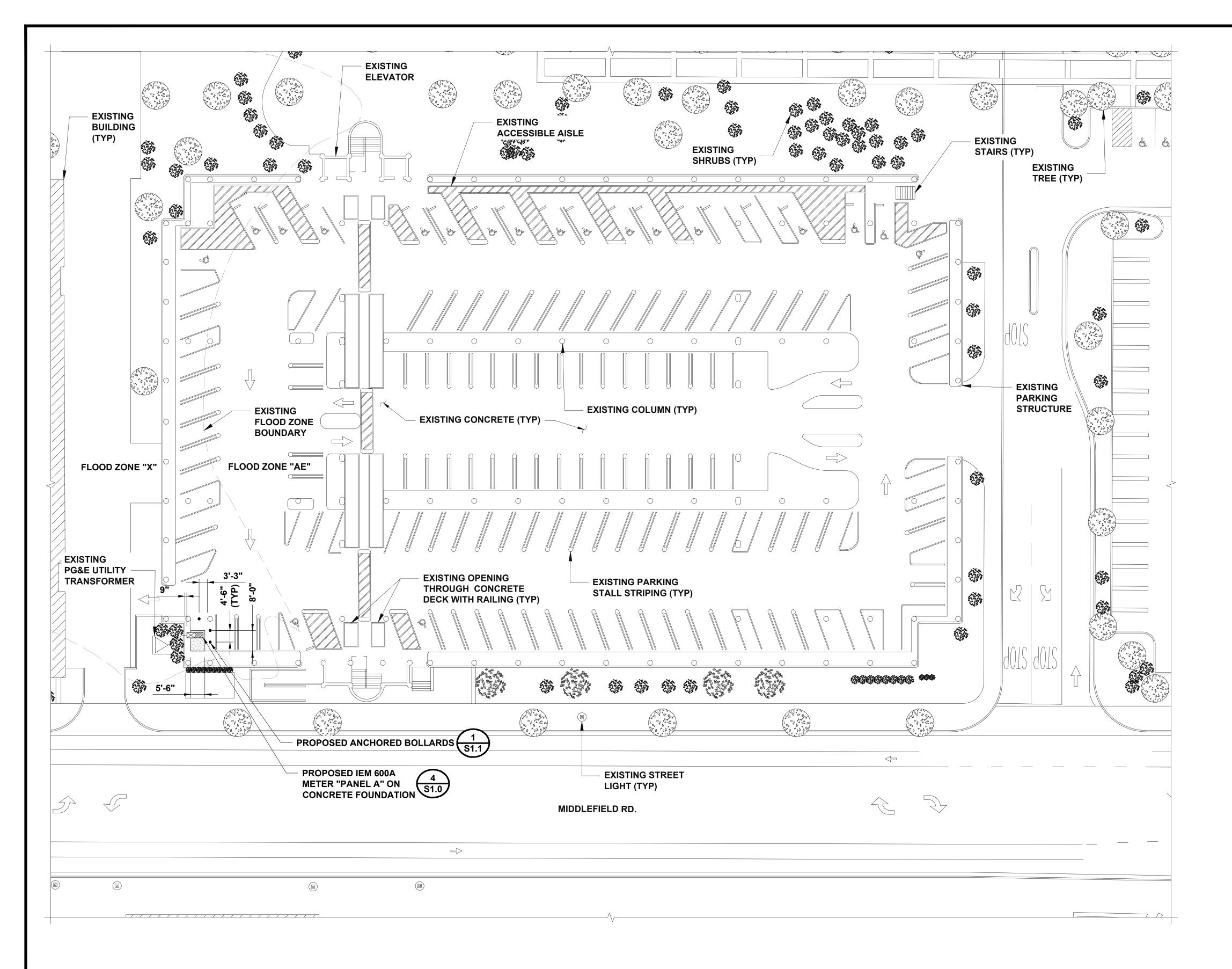
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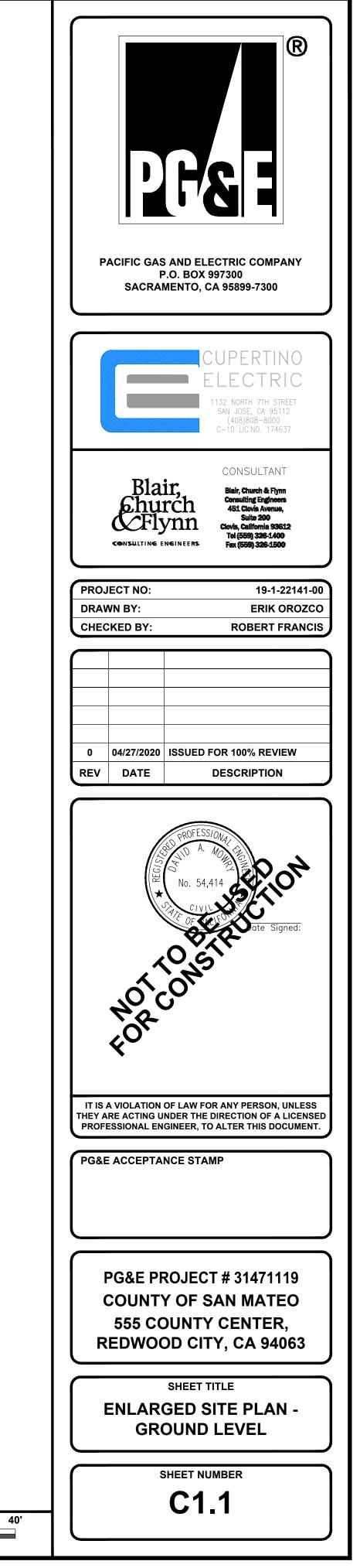
40'

80'

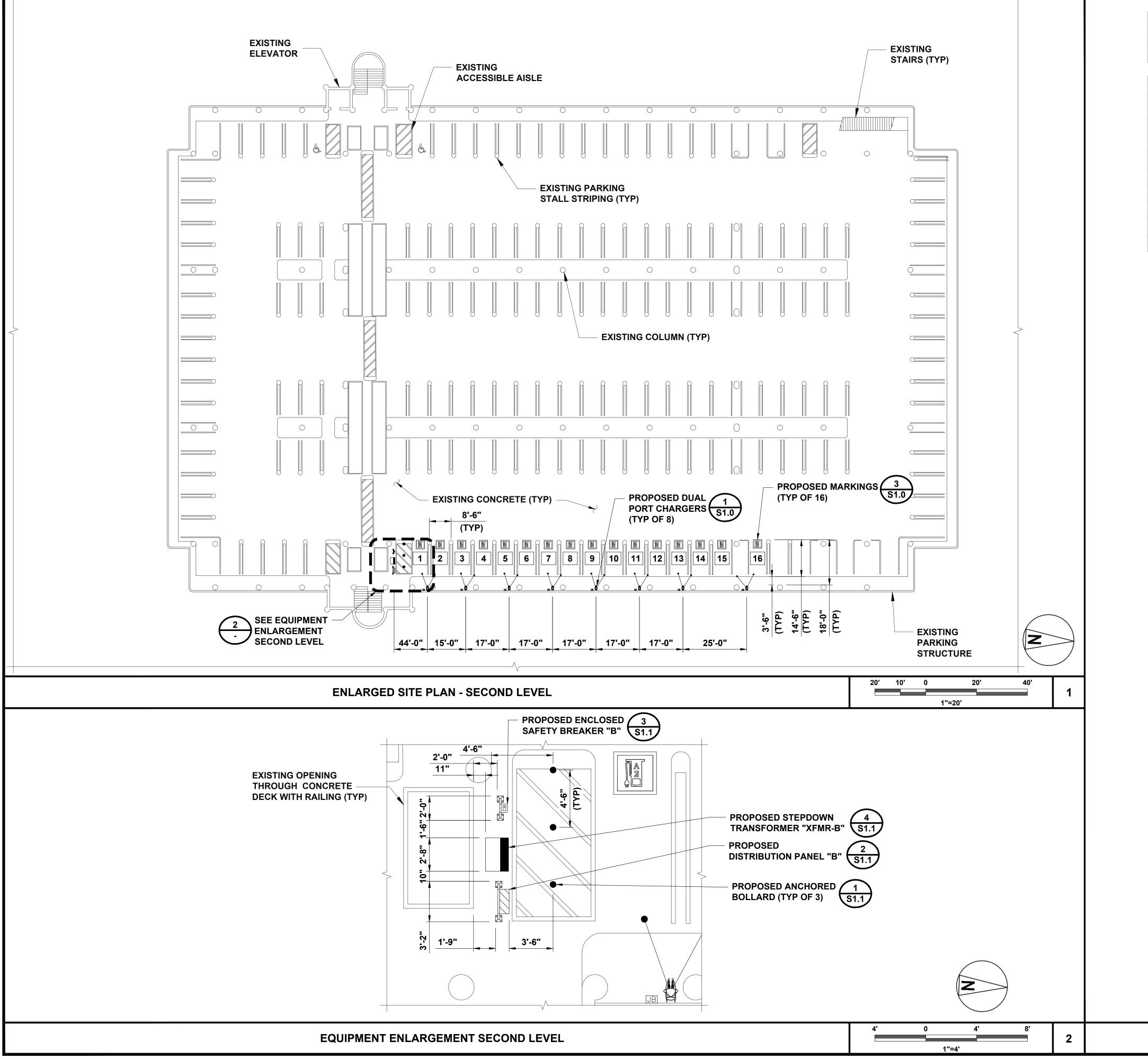
40' 20' 0







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

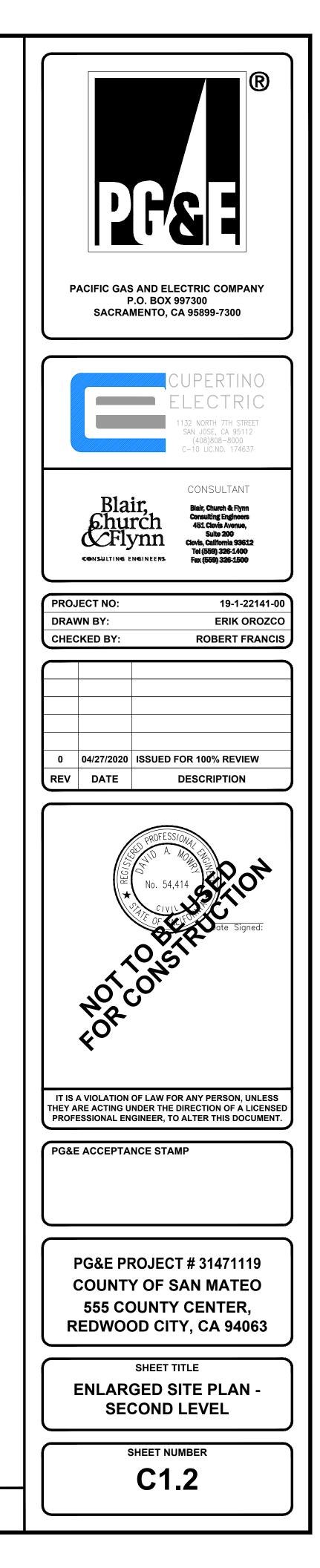


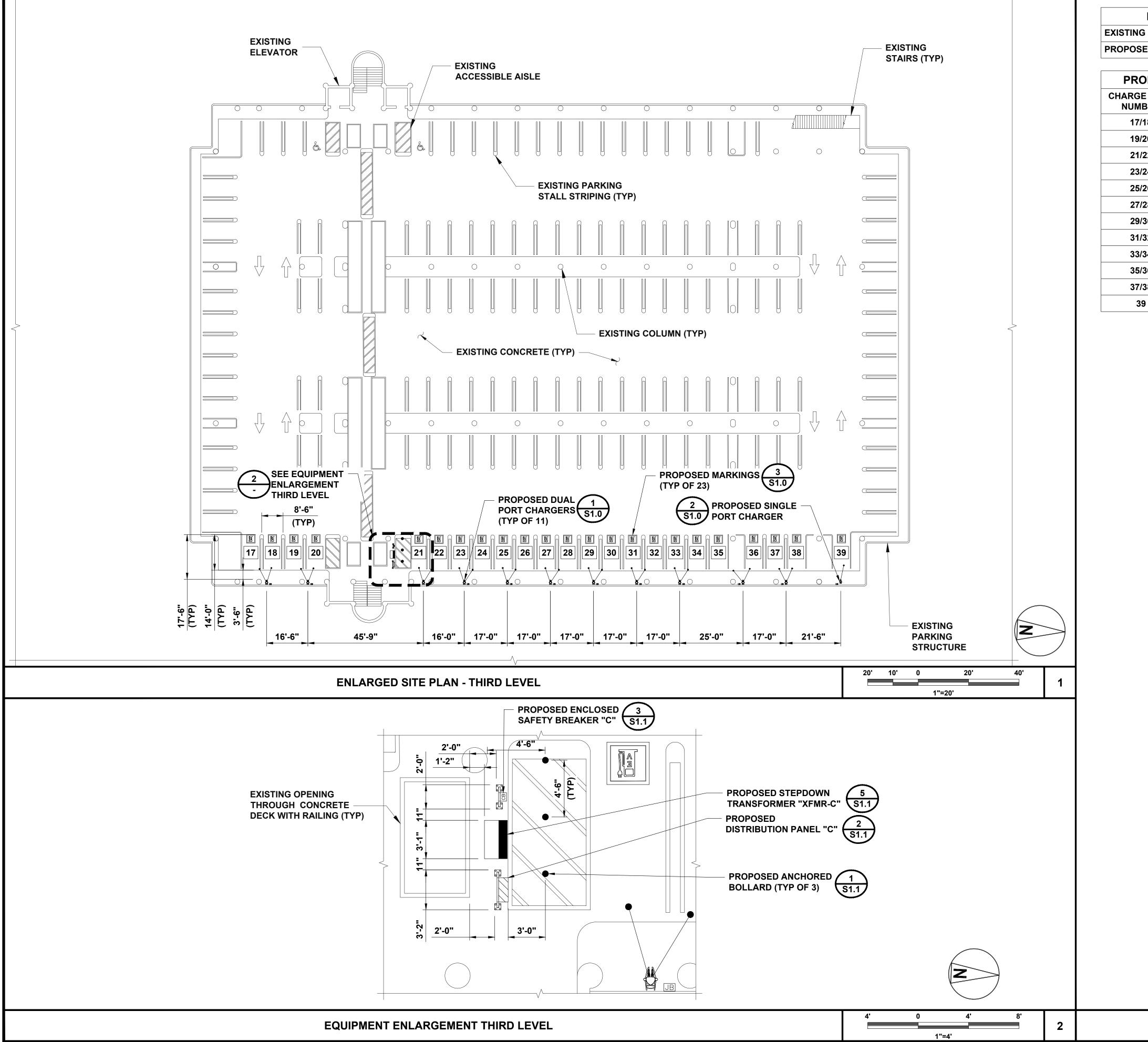
PROJECT

EXISTING STALL COUN PROPOSED STALL COU

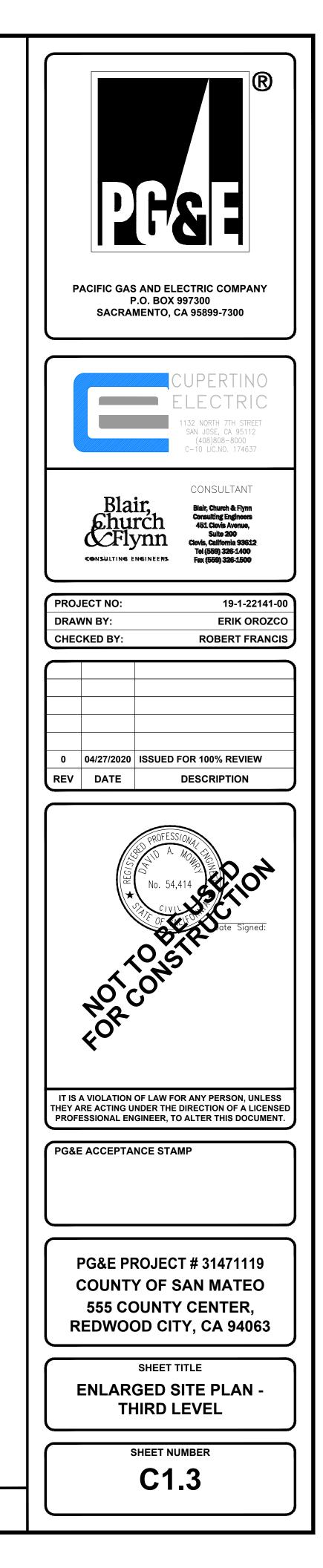
PROPOSED CHARGEPOINT DISPENSER				
CHARGE PORT NUMBER	SINGLE/DUAL PORT	WALL/PEDESTAL MOUNT		
1/2	DUAL	PEDESTAL		
3/4	DUAL	PEDESTAL		
5/6	DUAL	PEDESTAL		
7/8	DUAL	PEDESTAL		
9/10	DUAL	PEDESTAL		
11/12	DUAL	PEDESTAL		
13/14	DUAL	PEDESTAL		
15/16	DUAL	PEDESTAL		

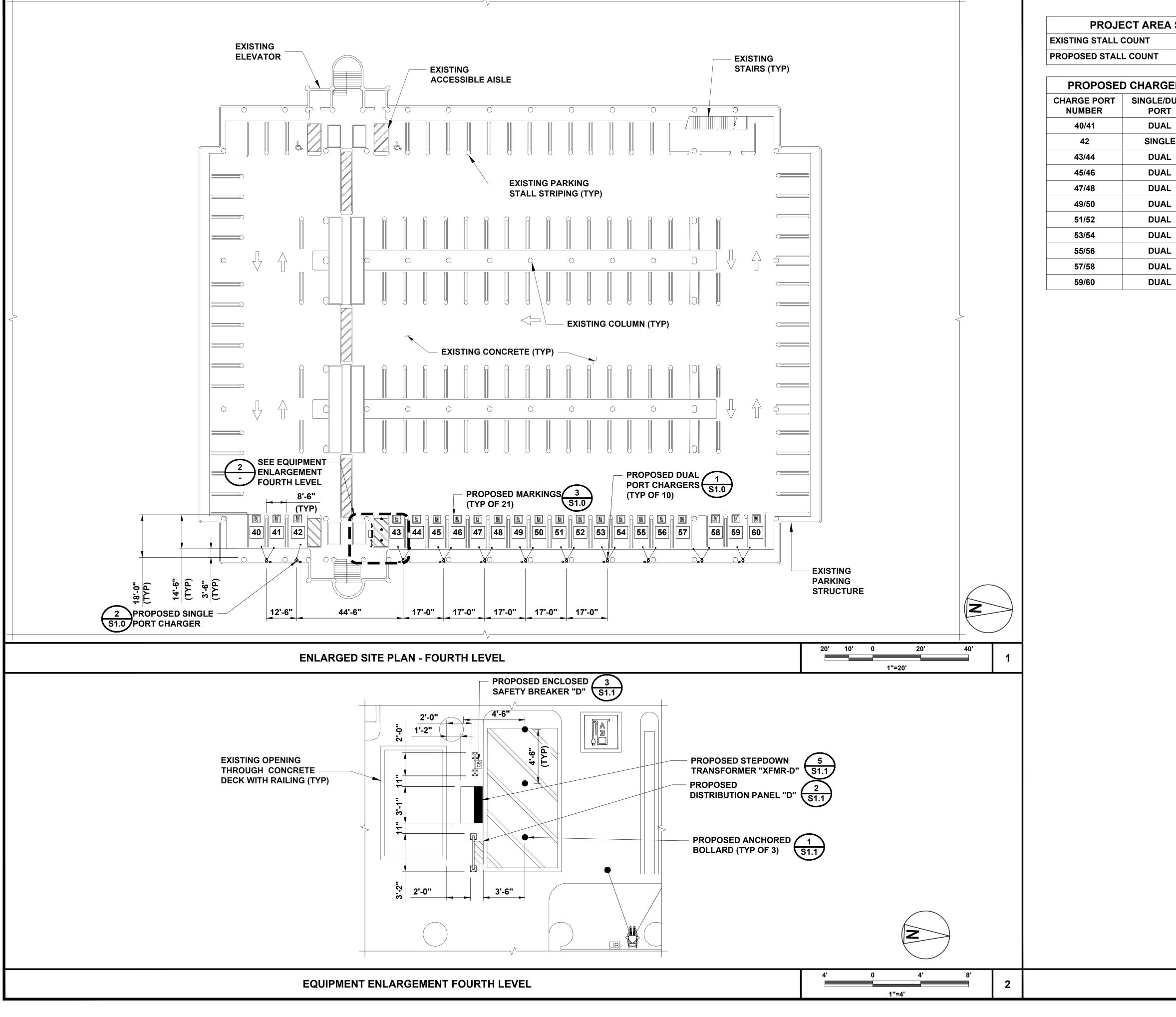
AREA STALL COUNT				
NT	16			
UNT	16			
I				





PROJECT AREA STALL COUNT					
EXISTING STALL	COUNT	23			
PROPOSED STAL	L COUNT	23			
PROPOSEI	D CHARGEPOIN	NT 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			

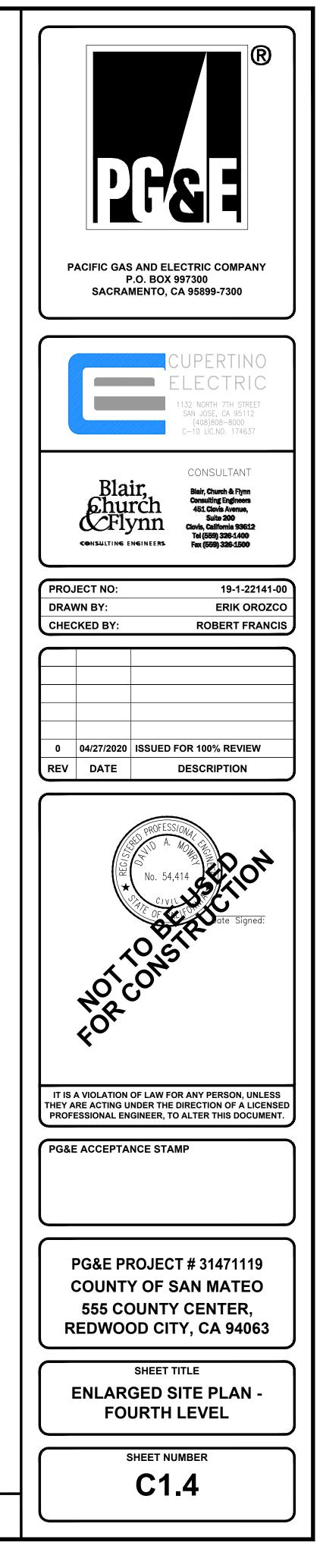


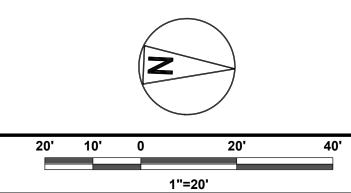


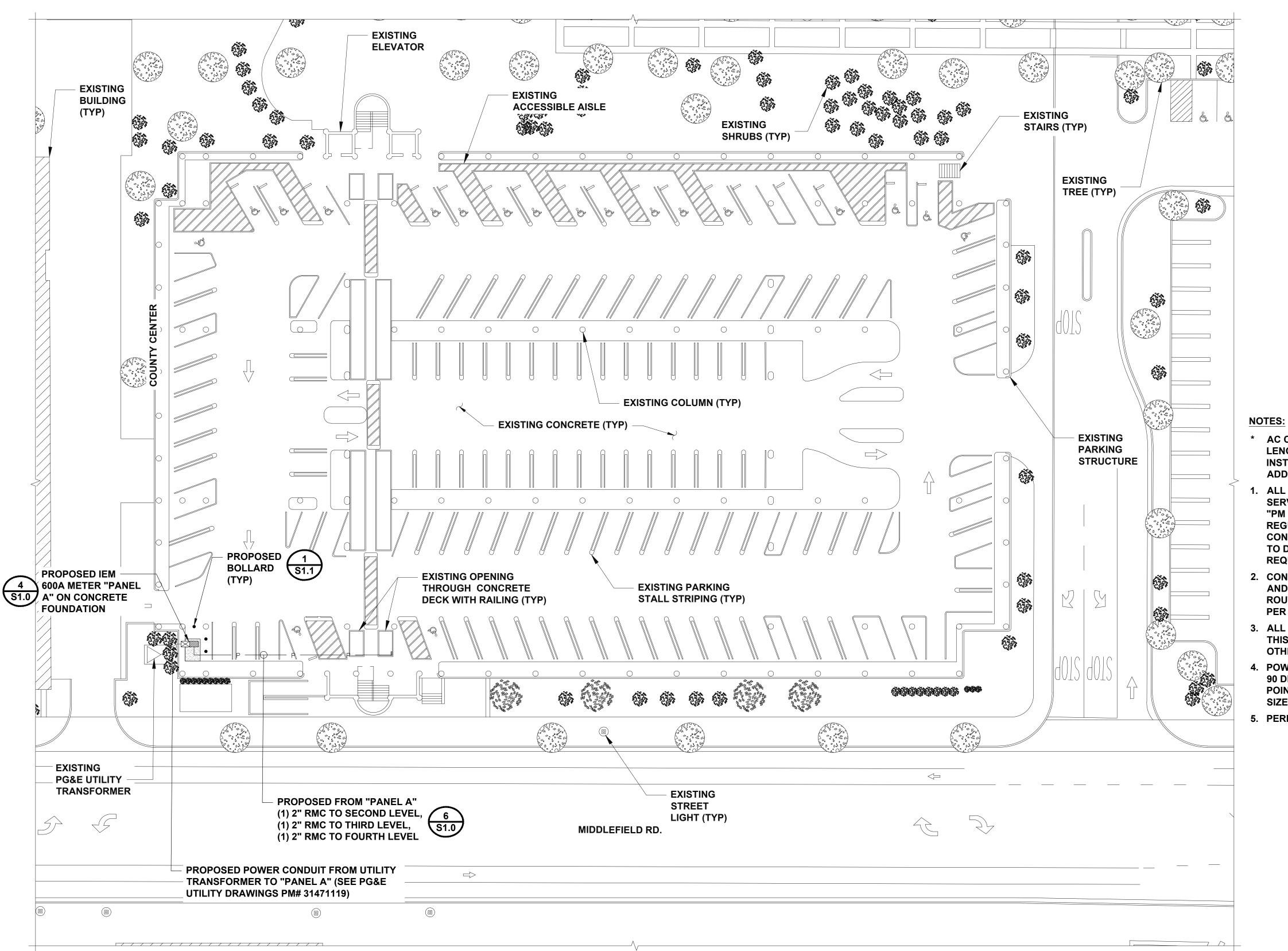
STA	LL COUNT
	21
	21
POIN	NT DISPENSER
JAL	WALL/PEDESTAL MOUNT
	PEDESTAL
2	PEDESTAL
	PEDESTAL

PEDESTAL

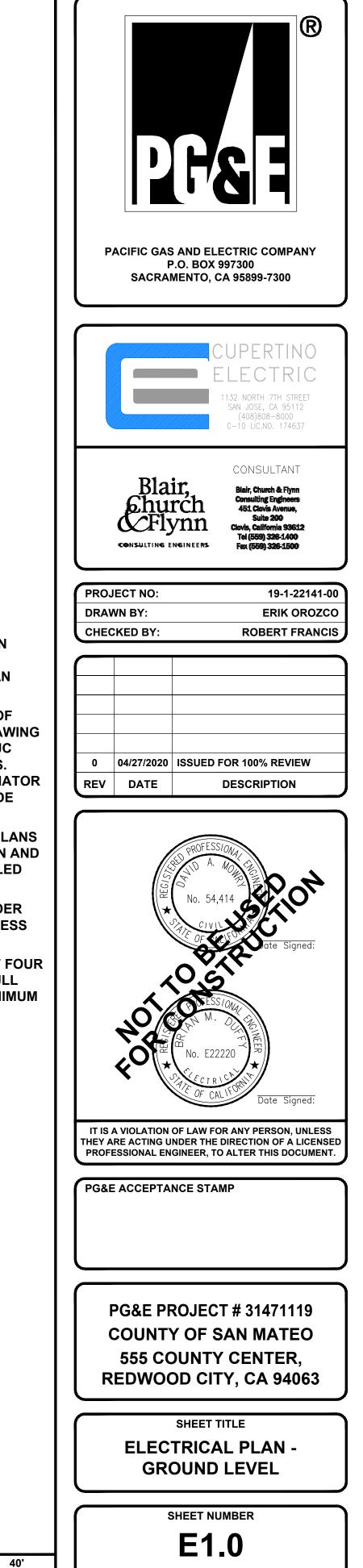
PEDESTAL







- **REQUIREMENTS.**
- OTHERWISE NOTED.



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.

ALL UTILITY RELATED SCOPE OF WORK (TO THE POINT OF SERVICE) IS DETAILED IN THE PG&E UTILITY DESIGN DRAWING "PM #31471119" AND IS TO BE INSTALLED PER PG&E CPUC **REGULATIONS AND PER PG&E GREENBOOK STANDARDS.** CONTACT YOUR LOCAL PG&E INSPECTOR AND COORDINATOR TO DETERMINE ANY ADDITIONAL PAD AND/OR BARRICADE

CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS.

3. ALL EQUIPMENT, FEEDERS AND DEVICES PROVIDED UNDER THIS SCOPE OF WORK IS NEW AND SHOWN IN BOLD UNLESS

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.

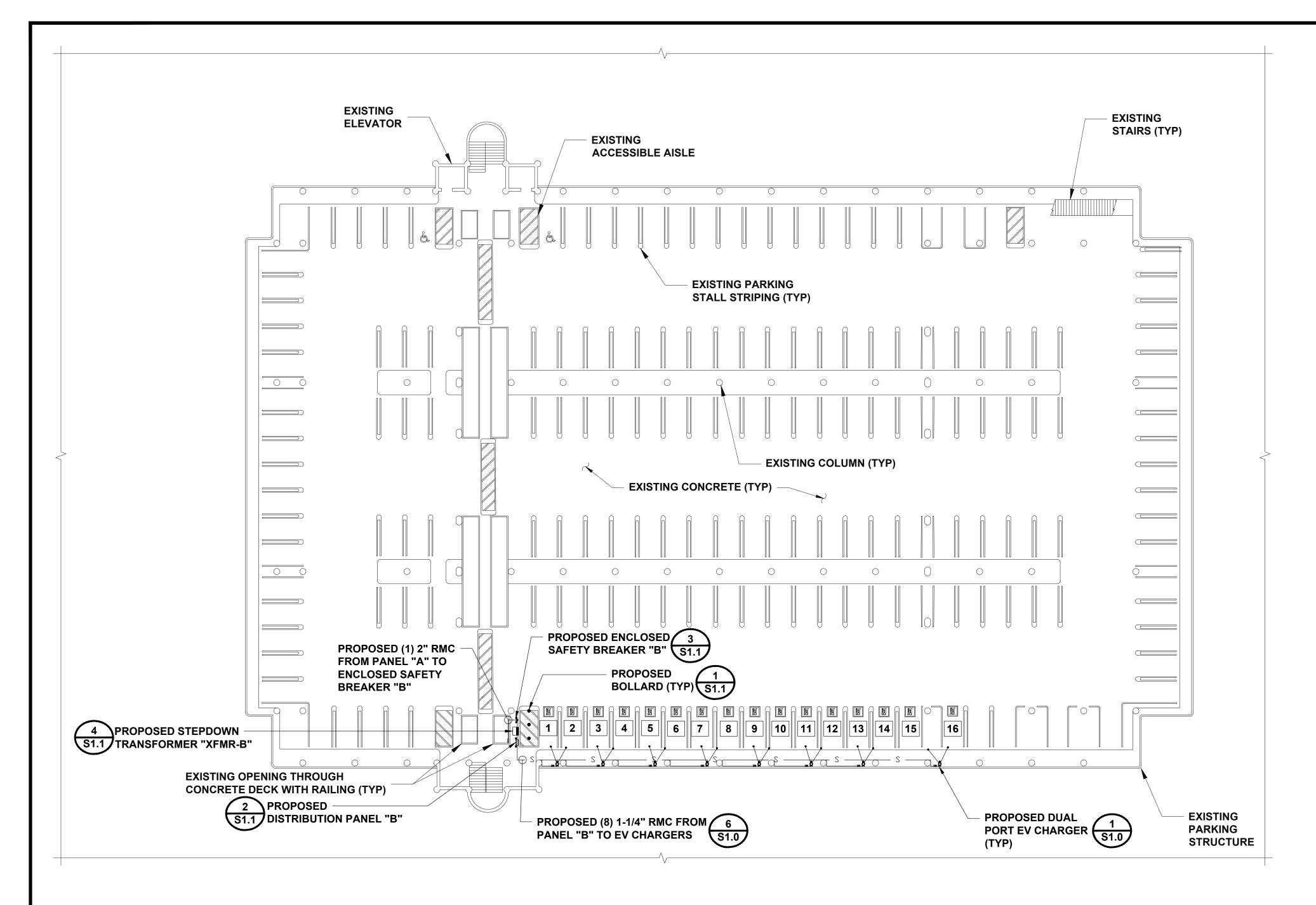
5. PERFORM LINE & LOCATE PRIOR TO DIGGING.

1"=20'

20'

Z

20' 10' 0



FEEDER CIRCUIT LENGTHS						
FROM TO LINEAR LENGTH (FT) *ESTIMATED UIR LENGTH (FT) (FT)* WIR						
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:

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- 1. ALL UTILITY RELATED SCOPE OF WORK (TO THE POINT OF SERVICE) IS DETAILED IN THE PG&E UTILITY DESIGN DRAWING "PM #31471119" AND IS TO BE INSTALLED PER PG&E CPUC **REGULATIONS AND PER PG&E GREENBOOK STANDARDS.** CONTACT YOUR LOCAL PG&E INSPECTOR AND COORDINATOR TO DETERMINE ANY ADDITIONAL PAD AND/OR BARRICADE **REQUIREMENTS.**
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- 5. PERFORM LINE & LOCATE PRIOR TO DIGGING.

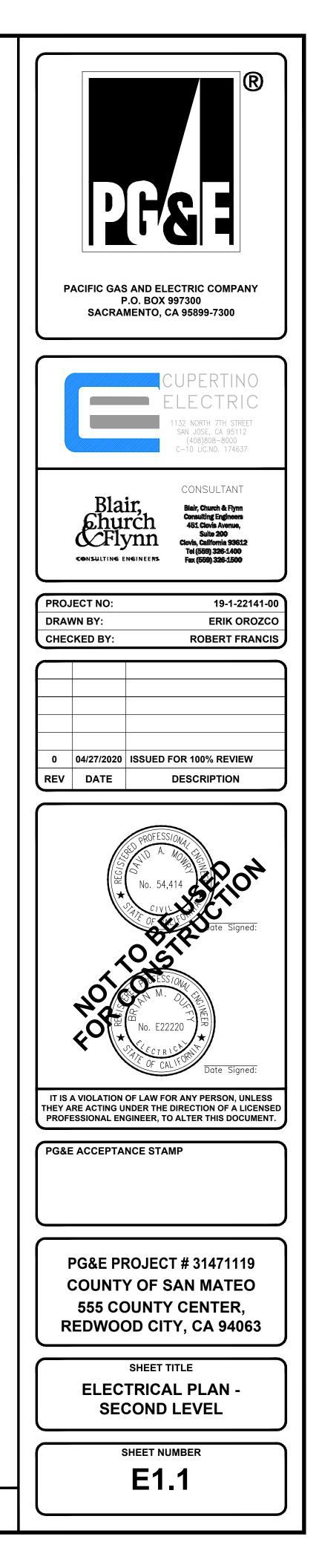
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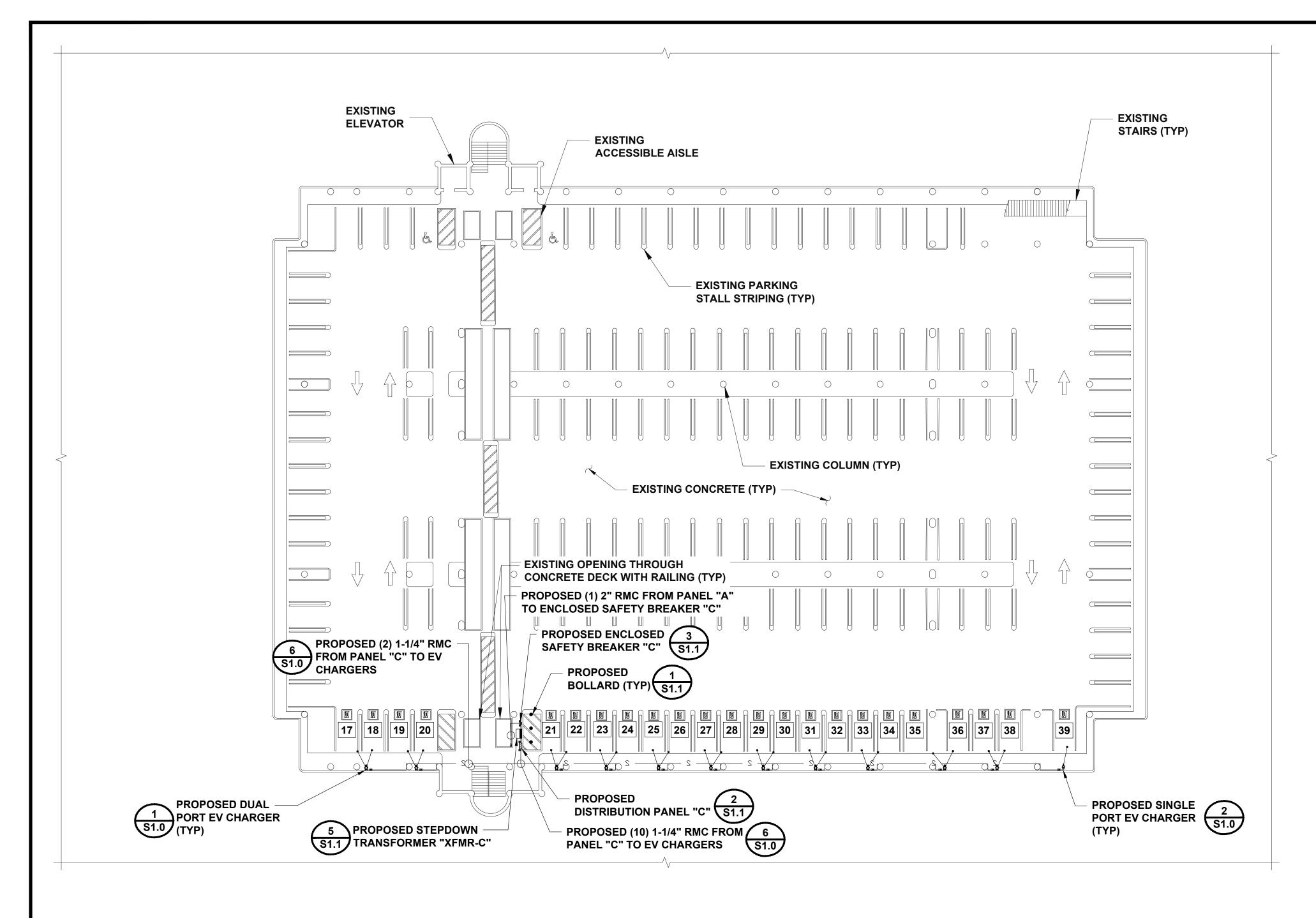
1"=20'

20'

40'

20' 10' 0



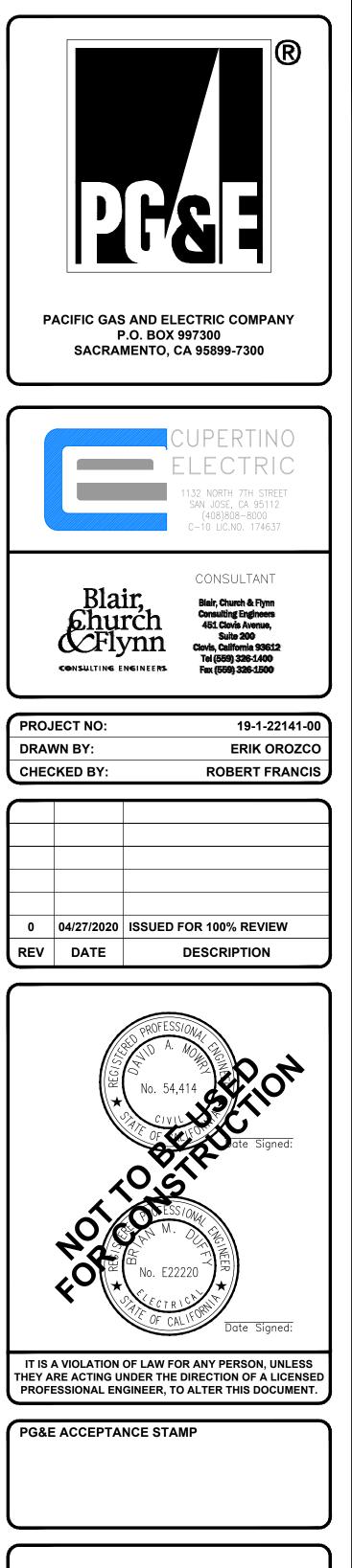


FEEDER CIRCUIT LENGTHS						
FROM	то	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE		
PANEL A	ENCLOSED BREAKER "C"	11	148	3/0		
ENCLOSED BREAKER "C"	XFMR-C	6	26	3/0		
XFMR-C	PANEL C	6	26	2X3/0		

	BRANCH		STHS	
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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- 3. ALL EQUIPMENT, FEEDERS AND DEVICES PROVIDED UNDER THIS SCOPE OF WORK IS NEW AND SHOWN IN BOLD UNLESS OTHERWISE NOTED.
- 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.



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

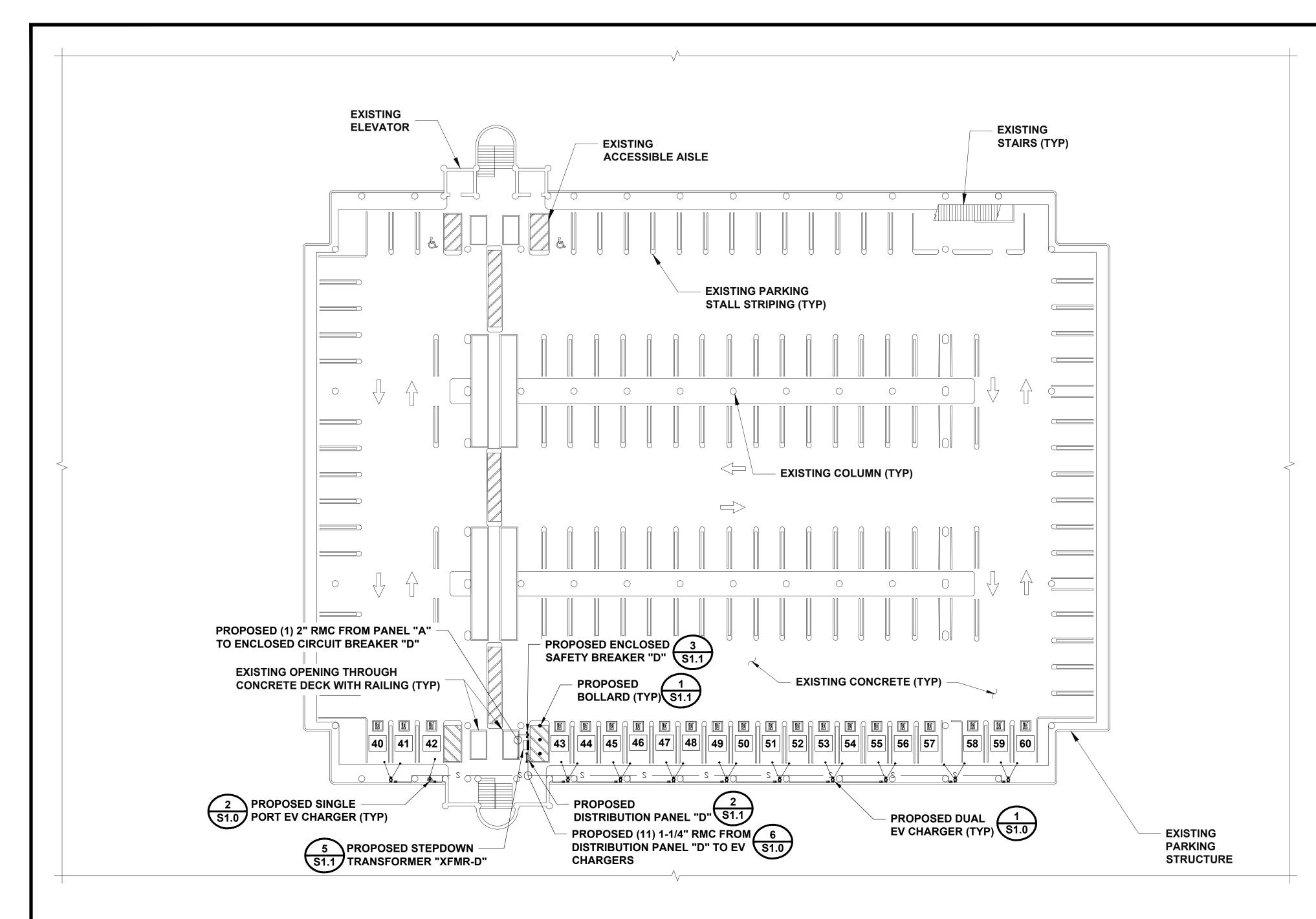
SHEET TITLE **ELECTRICAL PLAN -**THIRD LEVEL

SHEET NUMBER

Z 20' 10' 0 20'

40'

E1.2

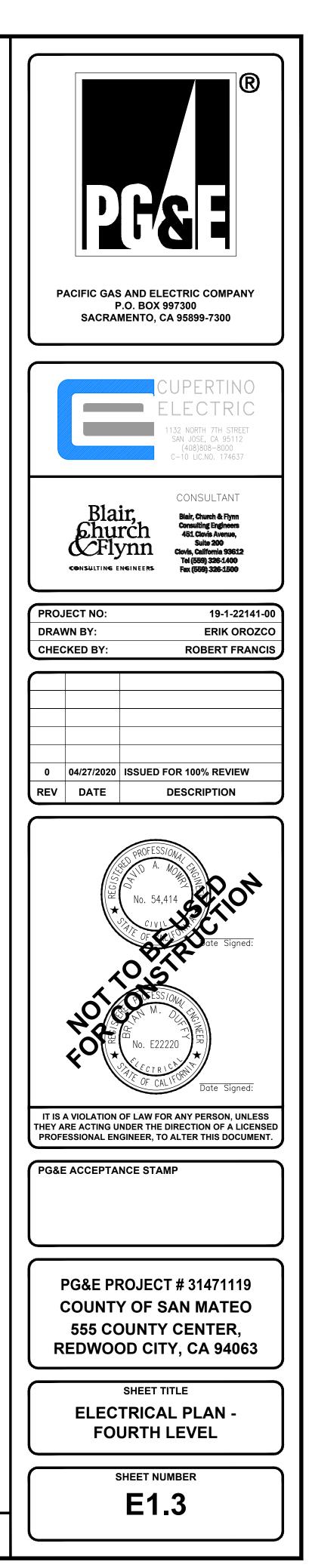


	FEEDER CIF	RCUIT LENGT	HS	
FROM	то	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*	WIRE SIZE
PANEL A	ENCLOSED BREAKER "D"	11	169	3/0
ENCLOSED BREAKER "D"	XFMR-D	6	26	3/0
XFMR-D	PANEL D	6	26	2X3/0

	BRANCH		GTHS	
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

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.
- 1. ALL UTILITY RELATED SCOPE OF WORK (TO THE POINT OF SERVICE) IS DETAILED IN THE PG&E UTILITY DESIGN DRAWING "PM #31471119" AND IS TO BE INSTALLED PER PG&E CPUC **REGULATIONS AND PER PG&E GREENBOOK STANDARDS.** CONTACT YOUR LOCAL PG&E INSPECTOR AND COORDINATOR TO DETERMINE ANY ADDITIONAL PAD AND/OR BARRICADE REQUIREMENTS.
- 2. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS.
- ALL EQUIPMENT, FEEDERS AND DEVICES PROVIDED UNDER THIS 3. SCOPE OF WORK IS NEW AND SHOWN IN BOLD UNLESS OTHERWISE NOTED.
- POWER CONDUITS: NO MORE THAN THE EQUIVALENT OF FOUR 4. 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.

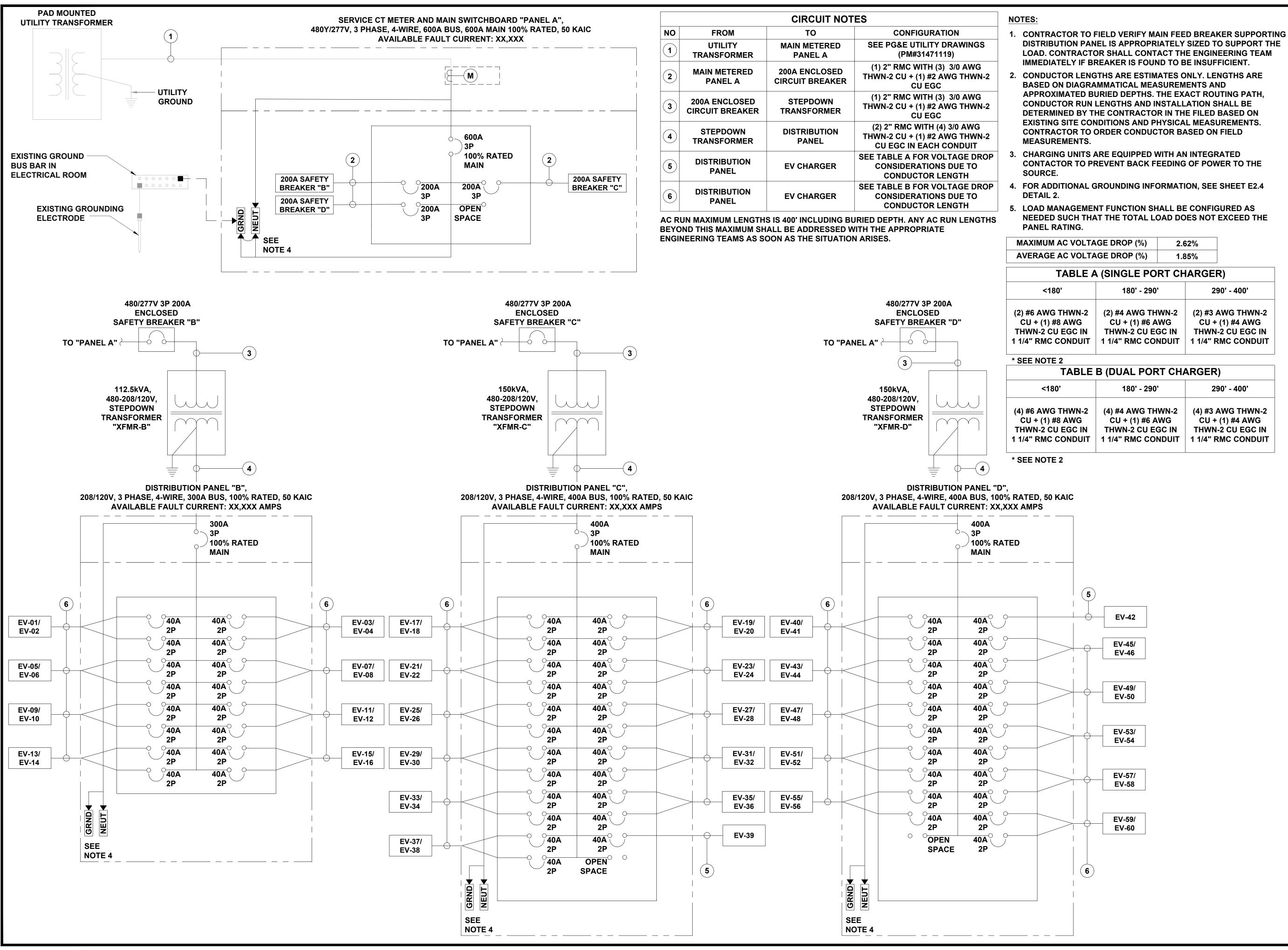


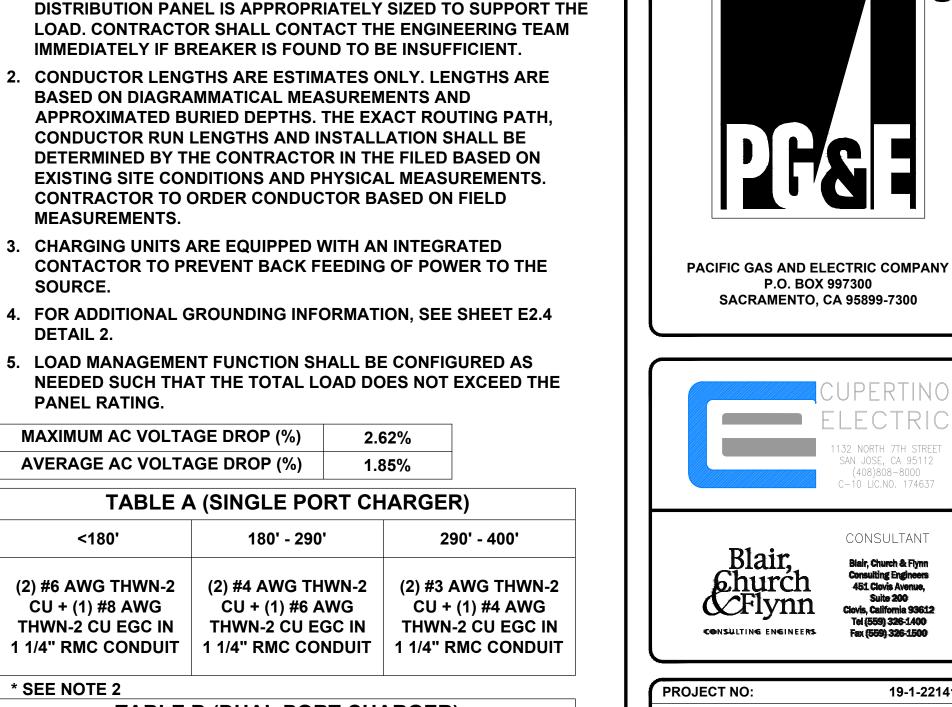
20'

40'

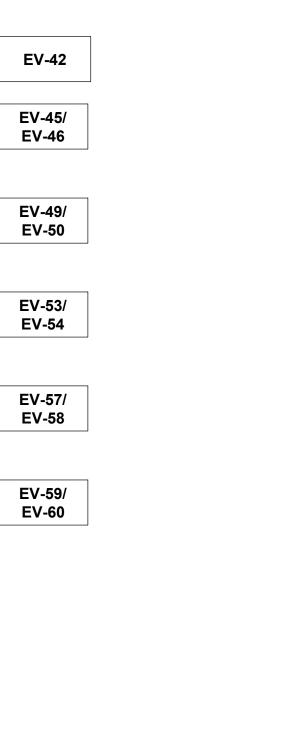
Z

20' 10' 0





B (DUAL PORT CH/	ARGER)
180' - 290'	290' - 400'
(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





R

UPERTINO

electric

32 NORTH 7TH STREE SAN JOSE, CA 95112

> (408)808-8000 ÌO LÍC.NO. 174637

CONSULTANT

Blair, Church & Flynn

Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, Catifornia 93612

Tel (559) 326-1400 Fax (559) 326-1500

DESCRIPTION

SC

0 04/27/2020 ISSUED FOR 100% REVIEW

No. 54.414

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS

THEY ARE ACTING UNDER THE DIRECTION OF A LICENSE

PG&E ACCEPTANCE STAMP

PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

PG&E PROJECT # 31471119

COUNTY OF SAN MATEO

555 COUNTY CENTER,

DRAWN BY: CHECKED BY:

REV DATE

19-1-22141-00

ERIK OROZCO

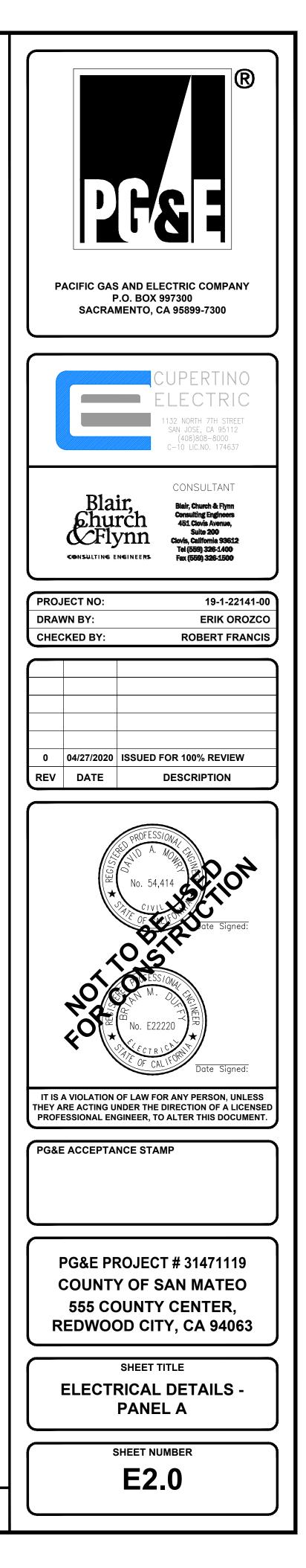
ROBERT FRANCIS

Site Nar	me:	COUNTY	OF SAN I	NATEO			MODEL N	UMBER:	PGELP600A	4802773-12		_						
SITE NUM	IBER:	19-1-2	2141-00				PHASE:		3				WIRE:			4		
VOLTAG		480	/277	Volts AC			BUSS RA	TING:	600	AMPS	100% RA	TED						
MAIN BR	EAKER:	600	AMPS	100% RAT	ED		KAIC RAT	ING:	50									
MOUNT:		PEDESTA	L															
ENCLOSU	JRE TYPE:	NEMA 3R																
PANEL S	TATUS:	New																
СКТ	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES		SERVICE LOAD VA		USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor		BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	скт
1		200	3	NEW	37440	1.00	1.00	87360			1.00	1.00	49920	NEW	2	40		2
3	SAFETY BREAKER "B"	200	3	NEW	31200	1.00	1.00		78000		1.00	1.00	46800	NEW	2	40	SAFETY BREAKER "C"	4
5		200	3	NEW	31200	1.00	1.00			78000	1.00	1.00	46800	NEW	2	40		6
7		200	3	NEW	46800	1.00	1.00	46800			0.00	0.00	0			•		8
9	SAFETY BREAKER "D"	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	100	÷	-		12
2								PHASE A	PHASE B	PHASE C								
						· •		134160	121680	118560	VA	·						
										TOTAL	KVA	374.40	1					
			1							IUTAL	AMPS	450.33	≤ 100%	OF MAIN	BREAKER			

NOTE: PANEL RATING.

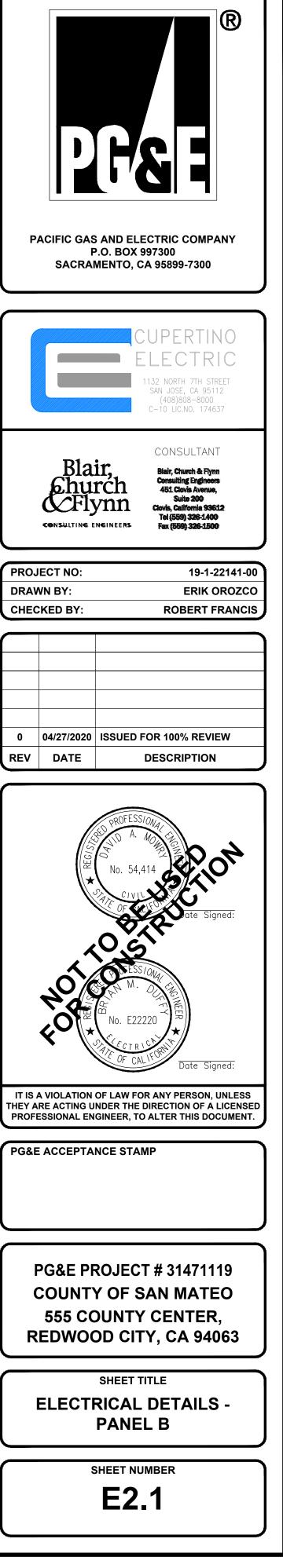


NO SCALE



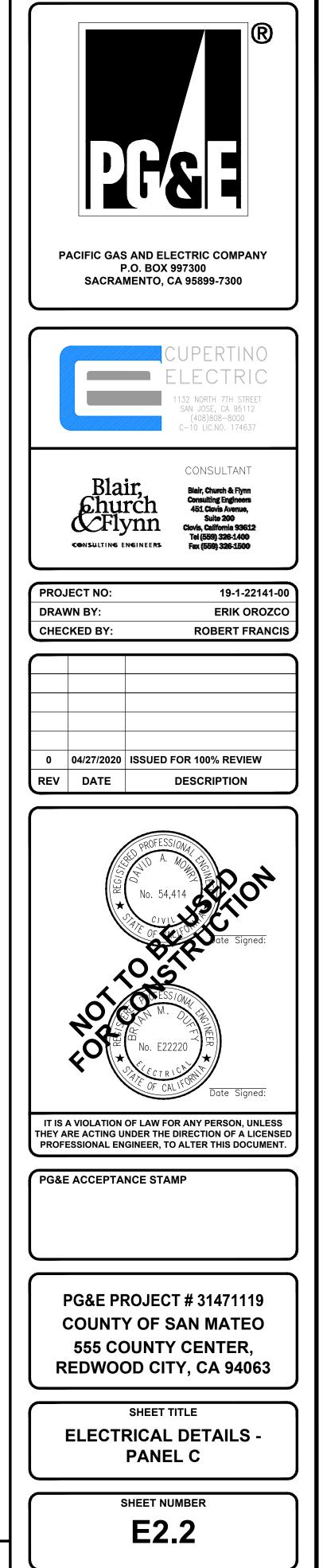
ite Nan	e:	COUNTY	OF SAN	NATEO		MOE	EL NUMBER:	PGELP300	4 1202083-32	e		1927	-				
	BER:	19-1-2	2141-00			PHA	SE:	3	3	2.000		WIRE:			4		
OLTAG		208	/120	Volts AC		BUS	S RATING:	300	AMPS	100% RA	TED						
AIN BR	AKER:	300	AMPS	100% RAT	TED	KAIC	RATING:	50)		1						
OUNT:		PEDESTA															
	RE TYPE:	NEMA 3R															
ANEL S	ATUS:	New															
скт	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES		SERVICE D		AGE PHASE TOR VA	A PHASE B	PHASE C VA	USAGE FACTOR	Demand Factor	1 Sector 2 Sector 2 L 2 L	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	скт
1		40	2	NEW	3120	1.00 1.	00 624	0		1.00	1.00	3120	NEW	2	40		2
3	EV-01	40	2	NEW	3120	1.00 1.	00	6240		1.00	1.00	3120	NEW	2	40	EV-03	4
5		40	2	NEW	3120	1.00 1.	00		6240	1.00	1.00	3120	NEW	2	40		6
7	EV-02	40	2	NEW	3120	1.00 1.	00 624	0		1.00	1.00	3120	NEW	2	40	EV-04	8
9		40	2	NEW	3120	1.00 1.	00	6240		1.00	1.00	3120	NEW	2	40		10
11	EV-05	40	2	NEW	3120	1.00 1.	00		6240	1.00	1.00	3120	NEW	2	40	EV-07	12
13		40	2	NEW	3120	1.00 1.	00 624	0		1.00	1.00	3120	NEW	2	40		14
15	EV-06	40	2	NEW	3120	1.00 1.	00	6240		1.00	1.00	3120	NEW	2	40	EV-08	16
17		40	2	NEW	3120	1.00 1.	00		6240	1.00	1.00	3120	NEW	2	40		18
19	EV-09	40	2	NEW	3120	1.00 1.	00 624	0		1.00	1.00	3120	NEW	2	40	EV-11	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	20-10	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.	oo 624	0		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 <mark>624</mark>	0		1.00	1.00	3120	NEW	2	40		32
								A PHASE B					1				
							3744	0 31200	31200								
									TOTAL	KVA	99.84						
									IVIAL	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.



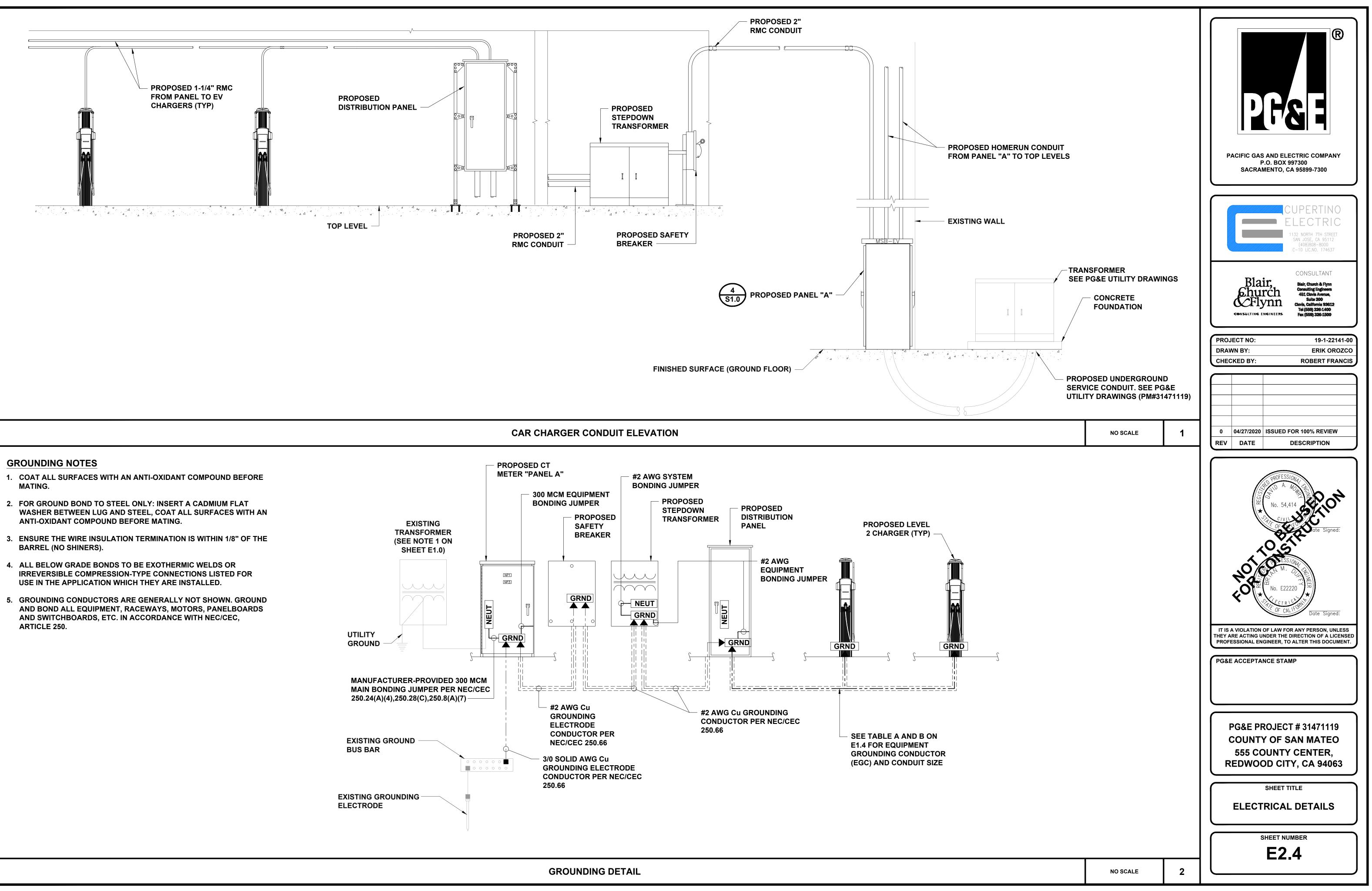
Site Nar	ne:	COUNTY	OF SAN I	NATEO			MODEL N	UMBER:	PGELP400A	1202083-48								
ITE NUN			2141-00				PHASE:		3				WIRE:			4		
OLTAG	E:	208	/120	Volts AC			BUSS RA	TING:	400	AMPS	100% RA	TED						
AIN BR	EAKER:	400	AMPS	100% RA	TED		KAIC RAT	TING:	50									
OUNT:		PEDESTA																
	JRE TYPE:	NEMA 3R						F										
ANEL S	TATUS:	New																
скт	LOAD DESCRIPTION	BREAKER	BREAKER POLES		SERVICE		USAGE FACTOR		PHASE B VA	PHASE C VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA		BREAKER POLES	BREAKER	LOAD DESCRIPTION	ск
	LOAD DESCRIPTION																LOAD DESCRIPTION	
	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		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		6
7	EV-18	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-20	8
9	51/ 04	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV 00	10
11	EV-21	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-23	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	EV-24	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	20
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	-	-	1.1		46
47		40	2	NEW	3120	1.00	1.00	00000	244.25.2	3120	0.00	0.00	0	-	2			48
								PHASE A 49920	PHASE B 46800	PHASE C 46800	VA							
										TOTAL	KVA	143.52						
										TOTAL	AMPS	398.37	≤ 100%	OF MAIN	BREAKER			

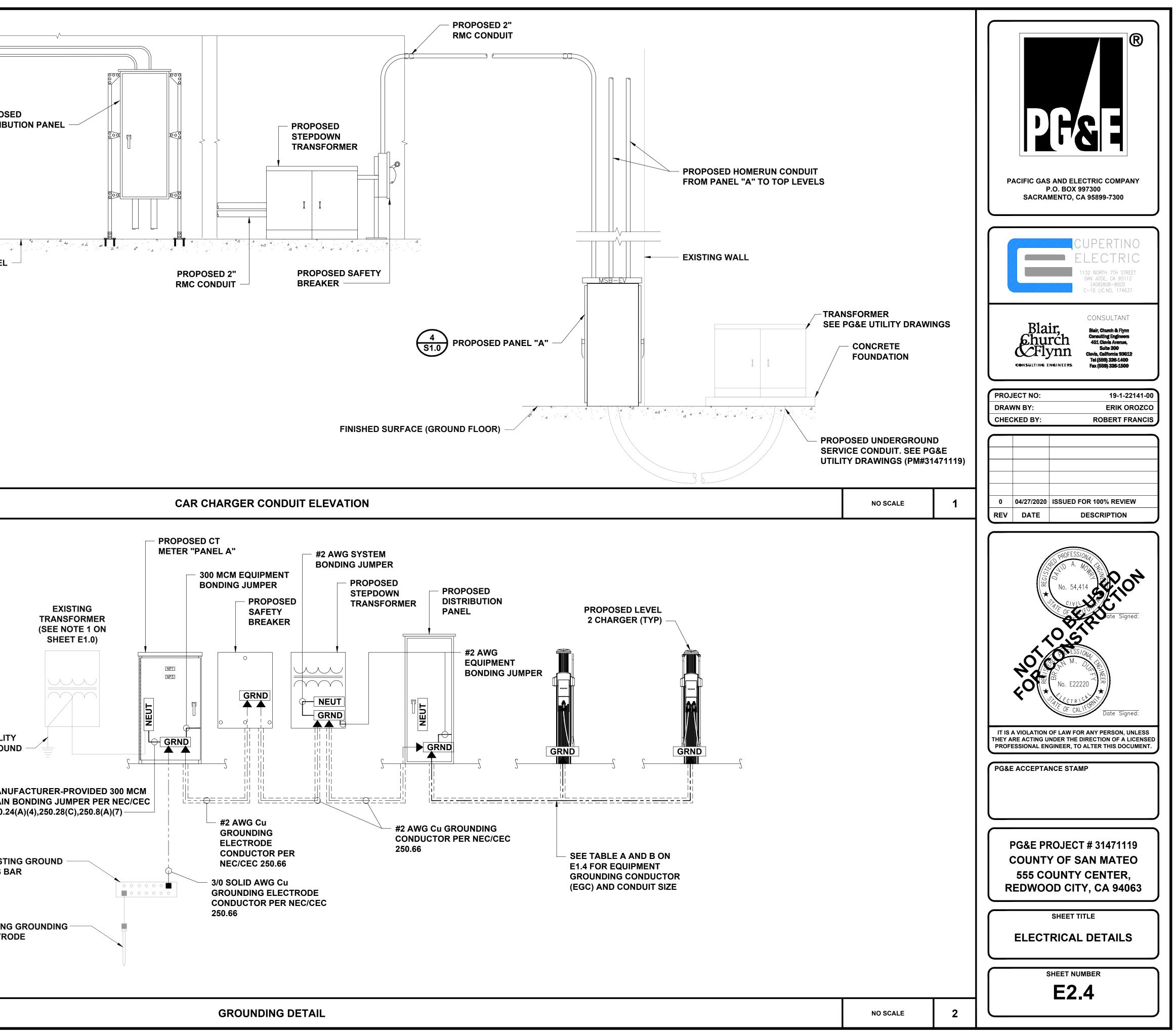
<u>NOTE:</u> LOAD MANAGEMENT FUNCTION SHALL BE CONFIGURED AS NEEDED SUCH THAT THE TOTAL LOAD DOES NOT EXCEED THE PANEL RATING.

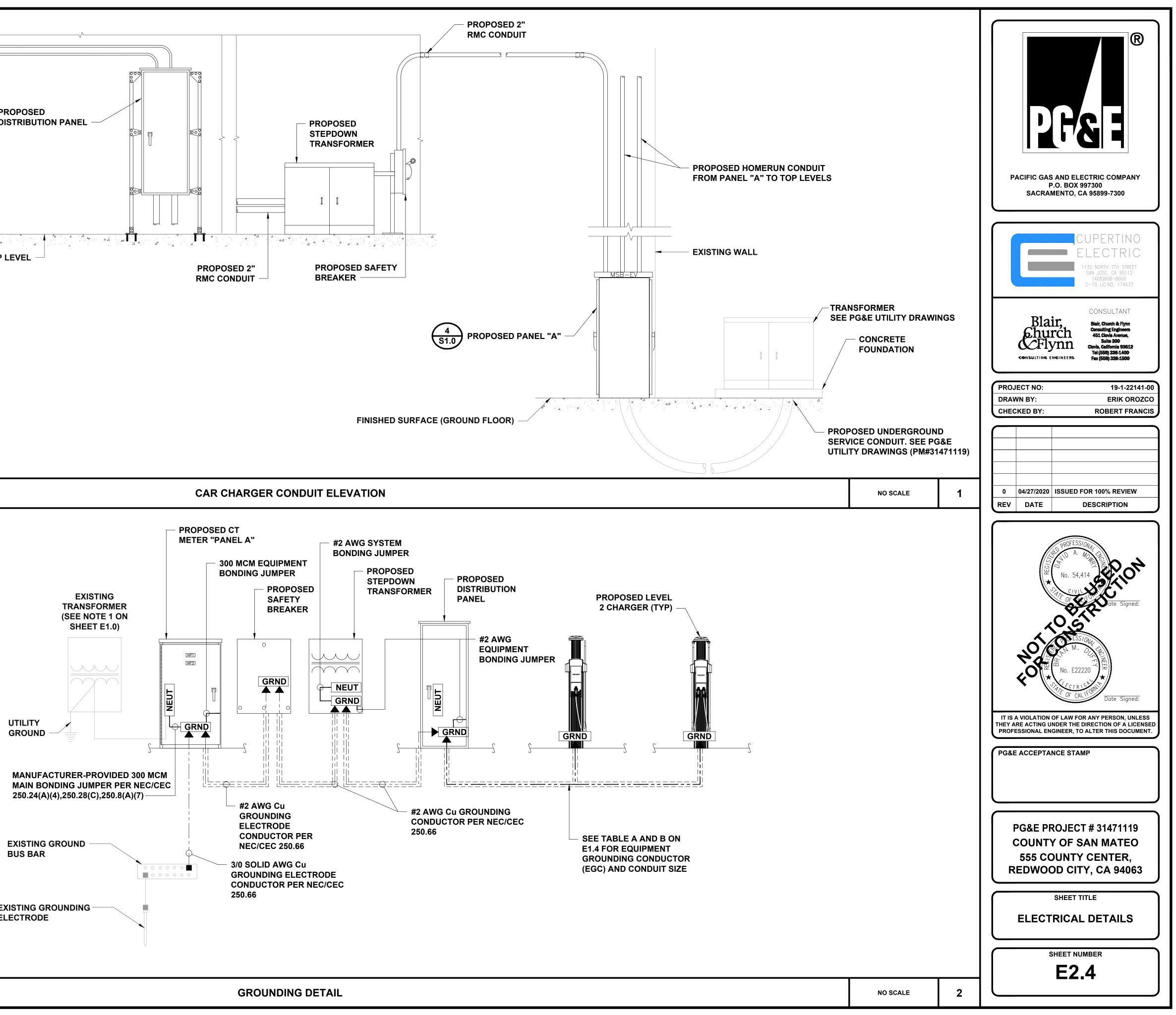


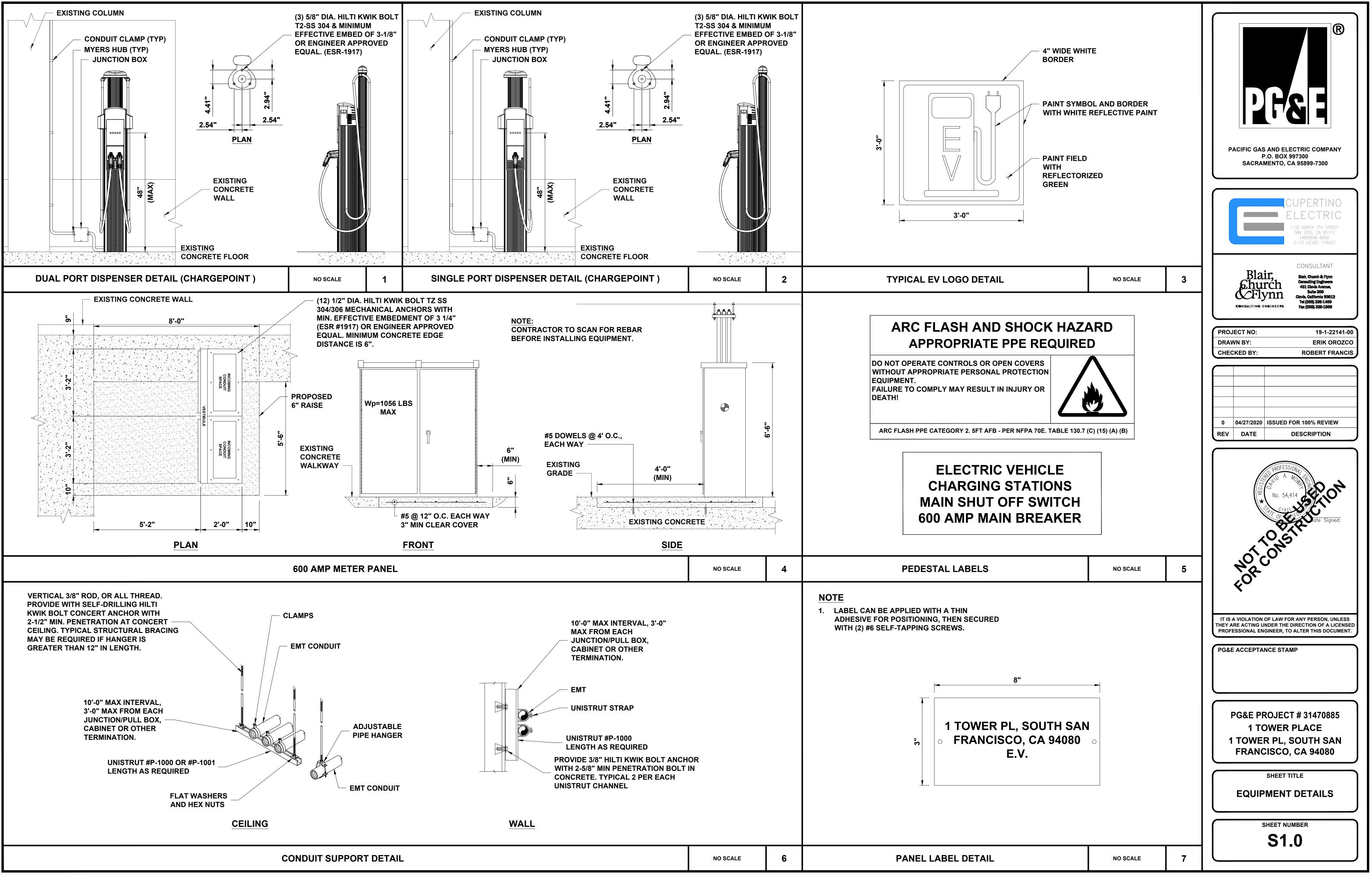
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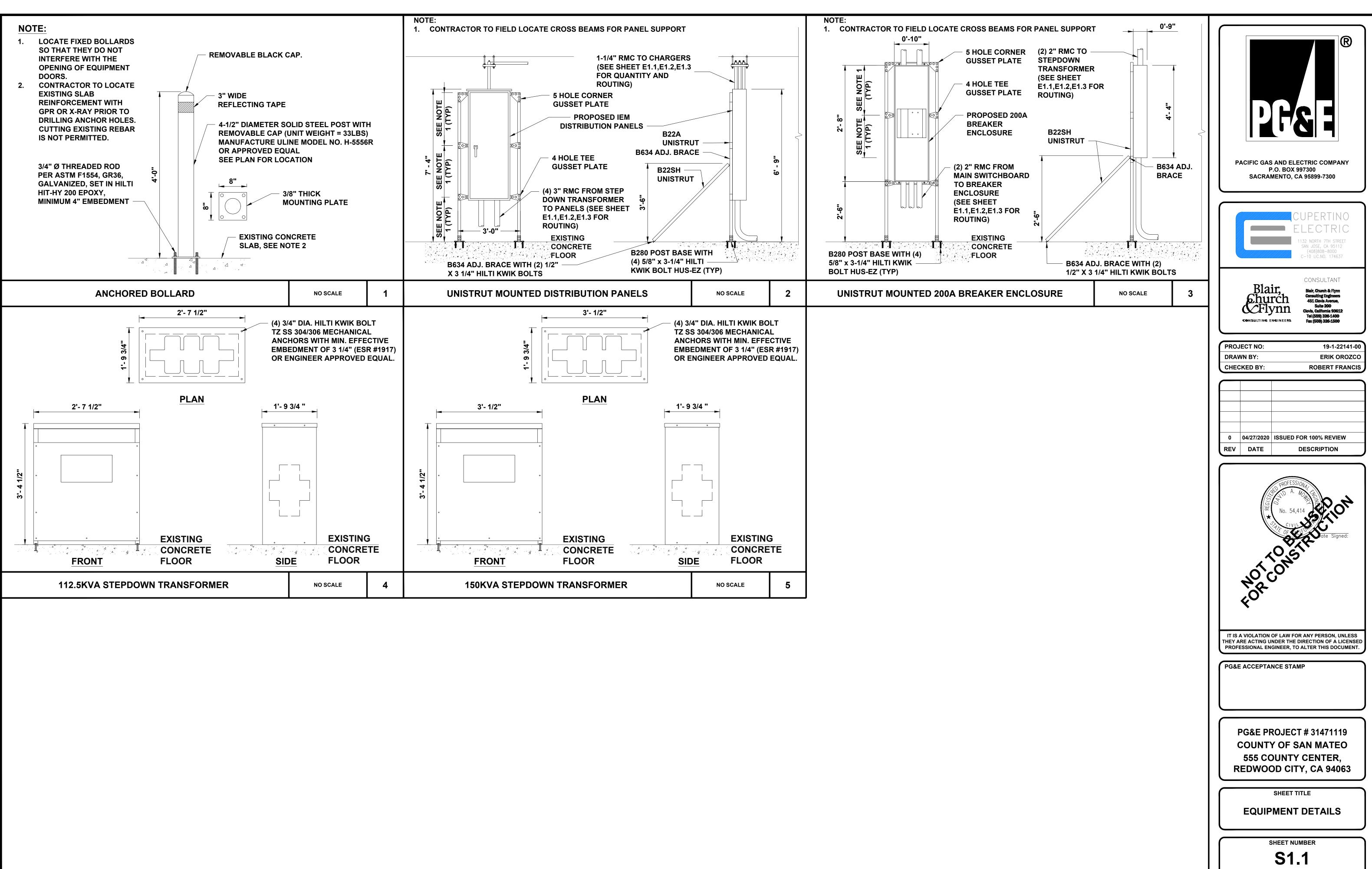
If Holds If SAUTHON If Holds								1		1202083-44	PGELP400A	UMBER:	MODEL N		1	IATEO		COUNTY		Name:
			-	4			WIRE:	1	4000/ DA	4400	3	TINO				V-14- 40				
								ATED	100% RA						ED			1		
NH NH<									1						LD	100701041				
NH & W NH & W NH & W NH & W N <																		NEMA 3R		OSURE TYPE:
Image: state Base: state	P.O. BOX 99																	New		L STATUS:
S Prior 4 2 Nov 100 </td <td></td> <td>скт</td> <td></td> <td>CRIPTION</td> <td></td>		скт																	CRIPTION	
a (1)		2	EV-42	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-40	
i example 40 7 100 10	4	4		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	6	6	EV-45	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-41	5
11		8		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		,
11 (1) <td>0 CFlynn Consulting engineers</td> <td>10</td> <td>EV-46</td> <td>40</td> <td>2</td> <td>NEW</td> <td>3120</td> <td>1.00</td> <td>1.00</td> <td></td> <td>6240</td> <td></td> <td>1.00</td> <td>1.00</td> <td>3120</td> <td>NEW</td> <td>2</td> <td>40</td> <td>EV-43</td> <td>)</td>	0 CFlynn Consulting engineers	10	EV-46	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-43)
10 10 2 100	2	12		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		1
15	4 DRAWN BY:	14	EV-49	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-44	3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		16		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		5
19	8	18	EV-50	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-47	7
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		20		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		9
25 40 2 NEW 310 1.00 6240 1.00	2	22	EV-53	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-48	1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	4	24		40	2	NEW	3120	1.00		6240			1.00		3120	NEW	2	40		3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	PROFESSIO A. M.	26	EV-54	40	2		3120	1.00				6240		1.00	3120	NEW	2	40	EV-51	5
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8 No. 54,41	28		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		7
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		30	EV-57	40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40	EV-52	9
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		32		40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40		1
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 32 1.00 1.00 1.00 1.00 3120 NEW 2 40 36 39 EV-56 40 2 NEW 32 1.00 1.00 1.00 3120 NEW 2 40 2		34	EV-58	40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40	EV-55	3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		36		40	2	NEW	3120	1.00	1.00	6240			1.00	1.00	3120	NEW	2	40		5
39 40 2 NEW 3120 1.00 1.00 6240 1.00 3120 NEW 2 40 40 40 41 - - - 0 0.00 0.00 0.00 3120 1.00 1.00 3120 NEW 2 40 40 40 43 - - - 0 0.00 0.00 3120 1.00 1.00 3120 NEW 2 40 40 40 43 - - - 0 0.00 3120 0 0.00 3120 0 0.00 3120 0 0.00 3120 0.00 3120 NEW 2 40 42 43 - - - 0 0.00 3120 0 0.00 3120 NEW 2 40 40 43 - - - PHASE A PHASE B PHASE C - - - - - - - - - - - - - - </td <td>5</td> <td>38</td> <td>EV-59</td> <td>40</td> <td>2</td> <td>NEW</td> <td>3120</td> <td>1.00</td> <td>1.00</td> <td></td> <td></td> <td>6240</td> <td>1.00</td> <td>1.00</td> <td>3120</td> <td>NEW</td> <td>2</td> <td>40</td> <td>EV-56</td> <td>7</td>	5	38	EV-59	40	2	NEW	3120	1.00	1.00			6240	1.00	1.00	3120	NEW	2	40	EV-56	7
$ \frac{1}{43} \overline{1} $	THEY ARE ACTING UNDER THE DI	40		40	2	NEW	3120	1.00	1.00		6240		1.00	1.00	3120	NEW	2	40		9
43 - - 0 0.00 0.00 3120 1.00 1.00 3120 NEW 2 40 44 6	PG&E ACCEPTANCE STAM	42	EV-60	40	2	NEW	3120	1.00	1.00	3120			0.00	0.00	0	-		-		1
Image: second secon	4	44		40	2	NEW	3120	1.00	1.00				0.00	0.00	0	-	•	•		3
PG&E PROJECT # 314 COUNTY OF SAN MA AMPS 363.73 ≤ 100% OF MAIN BREAKER 555 COUNTY CENT									VA			and the second se								
IOTAL AMPS 363.73 ≤ 100% OF MAIN BREAKER 555 COUNTY CENT								131.04	KVA			40000								
	555 COUNTY				BREAKER	OF MAIN	≤ 100%			TOTAL										
	ELECTRICAL																			
SHEET TITLE ELECTRICAL DETA																				











ChargePoint CT4000 Family

-chargepoin+. CT4021 1830 mm (6') CT4023 1830 mm (6') CT4025 2440 mm (8') CT4027 2440 mm (8') CT4000 Level 2 Commercial Charging Stations Bollard Wall Mount Specifications and Ordering Information Ordering Information Specify model number followed by the applicable code(s). 289 mm (11.4") The order code sequence is: Model-Options. Software, Services 470 mm and Misc are ordered as separate line items. (18.5") Model 1830 mm (6') Single Port Bollard Mount CT4011 1830 mm (6') Dual Port Bollard Mount CT4021 → 347 mm (13.7") ←
 1830 mm (6') Single Port Wall Mount
 CT4013

 1830 mm (6') Dual Port Wall Mount
 CT4023
 2440 mm (8') Dual Port Bollard Mount CT4025 2440 mm (8') Dual Port Wall Mount CT4027 233 mm
 (9.2") Options Integral Gateway Modem - USA Integral Gateway Modem - Canada -GW1 -GW2 CT4000-PMGMT CT4001-CCM Power Management Kit Bollard Concrete Mounting Kit CTSW-SAS-COMM-n1 ChargePoint Commercial Service Plan CTSW-SAS-SP-n' CT4000-ASSUREn2 CPSUPPORT-ACTIVE Station Activation and Configuration CT4025 2426 mm (95.5") **CT4027** 2426 mm (95.5") ChargePoint Station Installation and Validation CT4000-INSTALLVALID Note: All CT4000 stations come with 1 year of ChargePoint Assure coverage at no charge for qualified installations. Other conditions apply. All CT4000 stations require a network service plan. CT4021 1811 mm (71.3") CT4023 1811 mm (71.3") AA ¹ Substitute *n* for desired years of service (1, 2, 3, 4, or 5 years). ² Substitute *n* for the duration of the additional coverage (1, 2, 3, or 4 years). 1186 mm (46.7") 1830 mm (6') Dual Port Bollard USA Gateway Station KT4021-GW1 With Concrete Mounting Kit CT4001-CCM ChargePoint Commercial Service Plan, 3 Year Subscription CTSW-SAS-COMM-3 ChargePoint Station Installation and Validation CT4000-INSTALLVALID CT4000-ASSURE2 2 Additional Years of Assure Coverage CT4013 1830 mm (6') Single Port Wall Mount Station ChargePoint Commercial Service Plan, 5 Year Subscription CTSW-SAS-COMM-5 CT4021 4 Additional Years of Assure Coverage CT4000-ASSURE4 Station Activation and Configuration CPSUPPORT-ACTIVE 2 chargepoint.com

Hardware Description

Misc

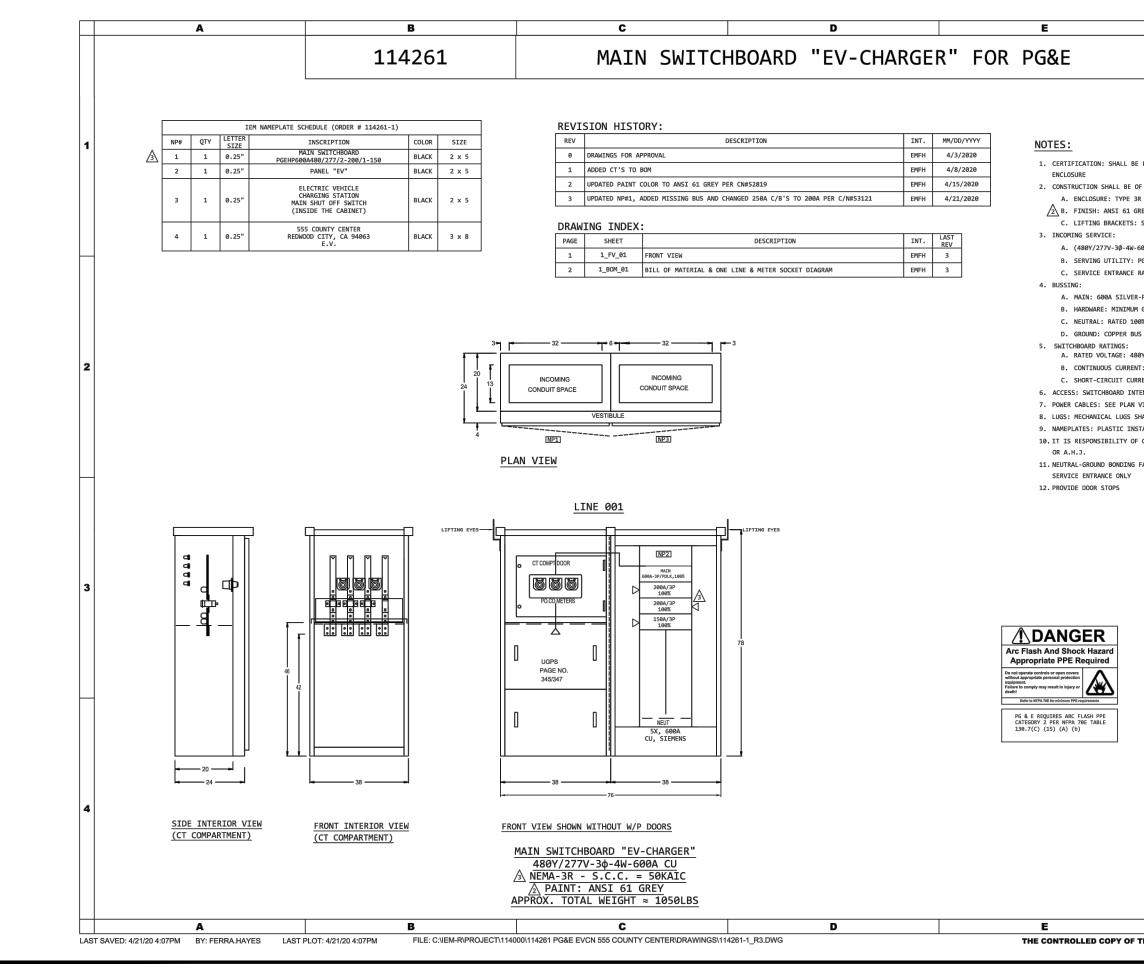
Software & Services Description

ChargePoint Assure

Order Code Examples

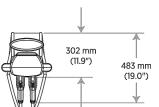
If ordering this

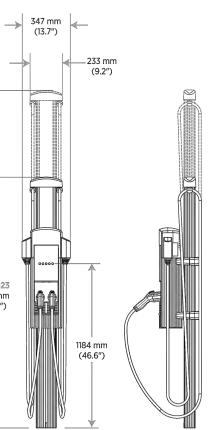
ChargePoint Service Provider Plan



IEM 600A REFERENCE DRAWINGS

-chargepoin+.





		Si	ngle Port (AC Voltage 2	208/240V AC)	C	Dual Port (AC Voltage 2	208/240V AC)
Electrical Inp		Input Current	Input Power Connection	Required Service Panel Breaker	input Current	Input Power Connection	Required Service Panel Breaker
Standard		30A	One 40A branch circuit	40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) x 2
Standard Power S	Share	n/a	n/a	n/a	32A	One 40A branch circuit	40A dual pole (non-GFCI type)
Power Select 24A		24A	One 30A branch circuit	30A dual pole (non-GFCl type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x
Power Select 24A	Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)
Power Select 16A		16A	One 20A branch circuit	20A dual pole (non-GFCl type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) x
Power Select 16A	Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)
Service Panel GFG	CI		Do not provide	e external GFCI as it r	nay conflict	with internal GFCI (CCID)	
Wiring - Standard	1		3-wire (L1, L2, Eart	th)		5-wire (L1, L1, L2, L2	, Earth)
Wiring - Power Sl	nare		n/a			3-wire (L1, L2, Ea	rth)
Station Power			88	V typical (standby), 1	5W maximu	m (operation)	
Electrical Out			7.2kW (240V AC @ 3	30A)		7.2kW (240V AC@3	
Standard Power S	Share		n/a		7.2kW (24	40V AC@30A) x1 or 3.8k	w (240V AC@16A) x
Power Select 24A	6		5.8kW (240V AC@2	24A)		5.8kW (240V AC@2	4A) x 2
Power Select 24A	Power Share		n/a		5.8kW (24	40V AC@24A) x1 or 2.9k	W (240V AC@12A) >
Power Select 16A			3.8kW (240V AC@1	6A)		3.8kW (240V AC@1	6A) x 2
Power Select 24A	Dowor Sharo		n/a		3.8kW (2	40V AC@16A) x 1 or 1.9k	W (240V AC@8A) x
	Fower Share						
Functional In							
Functional In Connector(s) Typ	terfaces		SAE J1772™			SAE J1772™ x	2
	terfaces e 30 mm (6')		SAE J1772™ 5.5 m (18′)			SAE J1772™ x 5.5 m (18') x 2	
Connector(s) Typ Cable Length - 18	terfaces e 30 mm (6') nt 140 mm (8')						
Connector(s) Typ Cable Length - 18 Cable Manageme Cable Length - 24	terfaces e 30 mm (6') nt i40 mm (8') nt		5.5 m (18')		/es	5.5 m (18') x 2	
Connector(s) Typ Cable Length - 18 Cable Manageme Cable Length - 24 Cable Manageme Overhead Cable	terfaces e 30 mm (6') nt i40 mm (8') nt		5.5 m (18') n/a			5.5 m (18') x 2	2
Connector(s) Typ Cable Length - 18 Cable Manageme Cable Length - 24 Cable Manageme Overhead Cable Management Syst	terfaces e 30 mm (6') nt i40 mm (8') nt		5.5 m (18') n/a		ull motion v	5.5 m (18') x 2 7 m (23') ideo, active matrix, UV pro	2

CT4000 Family Specifications

ChargePoint CT4000 Family

Ground Fault Detection	20mA CCID
Open Safety Ground Detection	Continuously
Plug-Out Detection	Power termin
Power Measurement Accuracy	+/- 2% from
Power Report/Store Interval	15 minute, ali
Local Area Network	2.4 GHz Wi-F
Wide Area Network	3G GSM, 3G
Enclosure Rating	Type 3R per
Safety and Operational Ratings	
Safety Compliance	UL listed for and NEC Arti
Surge Protection	6kV @ 3000 protection at
EMC Compliance	FCC Part 15 0
Operating Temperature	-30°C to +50
Storage Temperature	-30°C to +60
Non-Operating Temperature	-40°C to +60
Operating Humidity	Up to 85% @
Non-Operating Humidity	Up to 95% @
Terminal Block Temperature Rating	105°C (221°F
Charging Stations per 802.11 Radio Group	Maximum of 1

appear in this document.

Contact

To order you 🐚 Visit cha

🔇 Call +1.4 💿 Email sa

-chargepoin+.

chargepoint.com

chargepoint.com **3**

ChargePoint, Inc. 254 East Hacienda Avenue | Campbell, CA | 95008-6617 USA +1.408.841.4500 or toll free +1.877.370.3802

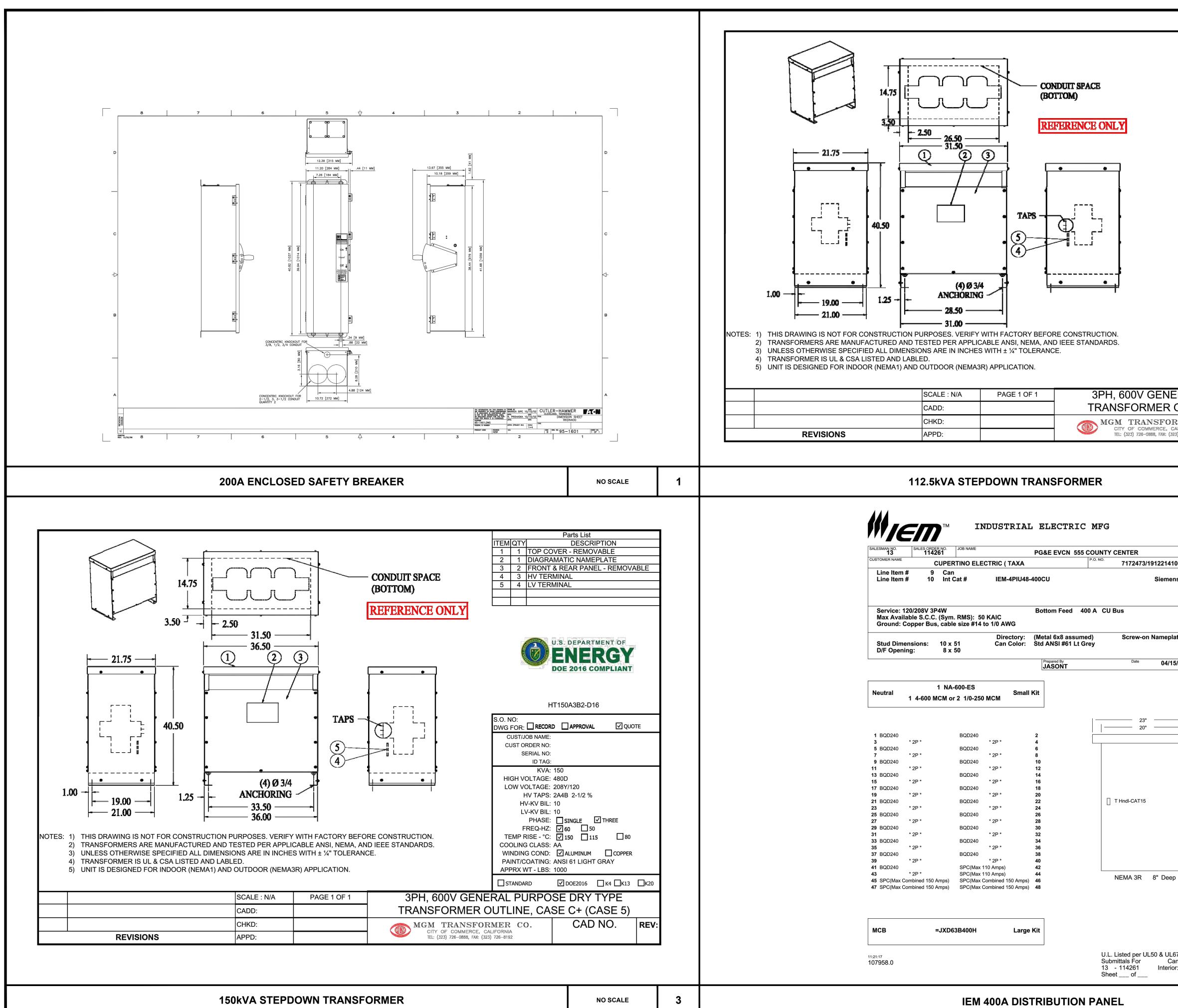
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100% certified rene
Recycled Fiber
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EV CHARGER

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OF CODE GAUGE SHEET STEEL								
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S: SHALL BE PROVIDED AND SHIPPED WITH GEAR								REVISION DESCRIPTION:
W-60HZ-600A) ': PG&E								ON DE
E RATED: YES								REVISI
ER-PLATED COPPER UM GRADE 5 BOLTS WITH SPLIT LOCK WASHERS								۳
100%, BONDED BUS EXTENDED THE FULL LENGTH OF THE SWITCHBOARD							TABLE	
480Y/277V-3Ø-4W-60Hz-600A ENT: 600A	2						HISTORY	
URRENT: 50KA RMS SYM INTENDED TO BE INSTALLED WITH FRONT ACCESS ONLY								
N VIEW FOR CABLE ENTRY LOCATIONS SHALL BE PROVIDED							REVISION	
NSTALLED WITH SCREWS OF OTHERS TO SUBMIT & GAIN APPROVAL FROM LOCAL UTILITY							8	
IG FACTORY INSTALLED & SWITCHBOARD TO BE RATED FOR						<	0	r REV.
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L BE PROVIDED AND SHIPPED WITH GEAR							REVISION DESCRIPTION:
600A)							DES
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DE 5 BOLTS WITH SPLIT LOCK WASHERS							
KONDED TENDED THE FULL LENGTH OF THE SWITCHBOARD						TABLE	
′7V-3∲-4₩-60Hz-600A						JRY T	
00A : 50ka RMS SYM	2	*				HISTORY	
D TO BE INSTALLED WITH FRONT ACCESS ONLY FOR CABLE ENTRY LOCATIONS						SEE REVISION	
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ED WITH SCREWS ERS TO SUBMIT & GAIN APPROVAL FROM LOCAL UTILITY							
ORY INSTALLED & SWITCHBOARD TO BE RATED FOR						1	REV.
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FRONT VIEW		PAG			•	02	<u>,</u>
F DOCUMENT RESIDES IN THE IEM NETWORK. PF	RINTE						
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			NO	SCA	LE		

2 with auto retry ly monitors presence of safety (green wire) groutinated per SAE J1772 ^m specifications in 2% to full scale (30A) aligned to hour -Fi (802.11 b/g/n) 5 CDMA r UL 50E r USA and cUL certified for Canada; complies witcle 625 0A. In geographic areas subject to frequent thue at the service panel is recommended. 5 Class A 50°C (-22°F to 122°F) 50°C (-22°F to 122°F) 50°C (-22°F to 140°F) 60°C (22°F) non-condensing @ +50°C (122°F) non-condensing F) f10. Each station must be located within 45m (150° any time without notice, and is not responsible for typog t US any time without notice, and is not responsible for typog t US sales@chargepoint.com	ith UL 2594, UL 2231-1, UL 2231-2, Inder storms, supplemental surge		PACIFIC GAS AND EL PACIFIC GAS AND EL P.O. BOX SACRAMENTO,	3997300
	NO SCALE	1	REV DATE REV DATE REV DATE REV DATE REV DATE REFERENCE SHEET N	TITLE DRAWINGS
			R1	.0
	NO SCALE	3)



ITEM QTY D 1 1 TOP COVER - F 2 1 DIAGRAMATIC 3 2 FRONT & REAF 4 3 HV TERMINAL 5 4 LV TERMINAL 0	ARTMENT OF		PACIFIC GAS AND ELECTRIC COMPANY P.O. BOX 997300 SACRAMENTO, CA 95899-7300
DWG FOR: RECORD AF CUST/JOB NAME: CUST ORDER NO: SERIAL NO: ID TAG: KVA: 112.5 HIGH VOLTAGE: 480D LOW VOLTAGE: 208Y/12 HV TAPS: 2A4B 2- HV-KV BIL: 10 LV-KV BIL: 10 LV-KV BIL: 10 PHASE: SINC FREQ-HZ: 60 TEMP RISE - °C: 150 COOLING CLASS: AA WINDING COND: ANSI 61 APPRX WT - LBS:800 STANDAR DOE COUTLINE, CASE C	1/2% SLE		<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>
	NO SCALE	2	0 04/27/2020 ISSUED FOR 100% REVIEW REV DATE DESCRIPTION
20 s Breakers			TISA VIOLATION OF LAW FOR ANY PERSON, UNLESS PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
			PG&E PROJECT # 31471119 COUNTY OF SAN MATEO 555 COUNTY CENTER, REDWOOD CITY, CA 94063 SHEET TITLE REFERENCE DRAWINGS
7 n: 9 r: 10	NO SCALE	4	SHEET NUMBER R1.1

STATE OF CALIFORNIA						
Electrical Power Distri	bution					
NRCC-ELC-E (Created 11/19)						CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE						NRCC-ELC-E
1	•			•		tructed nonresidential, high-rise residential and
	tions and alterations to e	ectrical service systems	in these occup	ancies will also i	use this docume	nt to demonstrate compliance per <u>§141.0(a)</u> or
<u>§141.0(b)2P</u> for alterations.				Davis ant Davis		Dans 4 of 5
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						8
01 Project Location (city)		REDWOOD CITY	02	Occupancy Type	s Within Projec	t:
Office	Office Retail Warehouse Hotel/Motel School			ool Support Areas		
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare Facilities ☐ Other (Write In):			ner (Write In):			
B. PROJECT SCOPE						8
Table Instructions: Include any	electrical service systems	that are within the scop	e of the permi	t application.		
01		02	03	04	05	06
						Demand Response Controls
Electrical Service Designation/ Description		of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	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 <u>§120.2, §130.1</u> and <u>§130.3</u> and compliance documents NRCC- MCH, NRCC-LTI and NRCC-LTS will indicate when
PANEL "A"	the second of the second second second	vice equipment &	498	\checkmark		demand response controls are required.

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.

. COMPLIANCE RES	SULTS									
able Instructions: If t	his table :	says "DOES NOT COI	MPLY" refe	r to Table D. for gui	dance and	review the Table that ind	licates "No".			
01		02		03		04	05			
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop <u>§130.5(c)</u>	AND	Controlled Receptacles §130.5(d)	Compliance Results			
(See Table F)	1 1	(See Table G)	(See Table	(See Table H)	(See		(See Table H)		(See Table I)	
	AND	Yes	AND	Yes	AND	Yes	COMPLIES with Exceptional Conditions			

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

TATE OF CALIFORNIA	n			
NRCC-ELC-E (Created 11/19)			CALIFORNIA ENER	RGY COMMISSION
CERTIFICATE OF COMPLIANCE				NRCC-ELC-E
Project Name: COUNTY OF SAN MA	TEO	Report Page:		Page 3 of 5
Project Address: 555 COUNTY CENTE	R, REDWOOD CITY, CA 94063	Date Prepared:		03/31/20
	nis table for entirely new or complete replacen trate compliance with <u>\$130.5(c)</u> . For alterati			
01	02	03	04	05

01		02	03	04	0	5
Electrical Service Designation/ Description		on Installed Feeder/Branch	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction	Field Inspector	
Designation, Description	Circuit Conductors	Circuit Conductors Compliance Method Calculations'		Documents	Pass	Fail
CT Meter and Main Switchboard	✓Voltage drop < 5%	Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	R2.0		
NOTES If "Permitted by CA Elec Co	ode*" is selected under Co.	mpliance Method above, plea	se indicate where the exception a	pplies in the space provided below.		
FOOTNOTEC, Valtance draw and with	while we we are been white all and the	the second condition such as	a the assessment of a sum and a first	Harrison have the Arithmetical Louise as trute.	disting C	ala ak

¹ FOOTNOTES: 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".

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

	olete this table for entirely new or complete replace ceptacles must be provided in office areas, lobbies					
01	02	03	04	05	0	06
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will	Location of Requirements	Field Inspector	
or Description	Receptacies		be Used	Documents	Pass	Fai
-	NA: No applicable space types on this service					177
				Add Row	Remo	ve Last

. DECLAR	ATION OF F	EQUIRED CERTIFICATES OF INSTALLATION	
able E. Add	ditional Rem	ctions have been made based on information provided in previous tables of this document. If any selection arks. These documents must be provided to the building inspector during construction and can be found o	
101624/2013	9stanaaras/	2019_compliance_documents/Nonresidential_Documents/NRCI/	
	1.1.1.1		Field Inspector
YES	NO	2019_compliance_documents/Nonresidential_Documents/NRCI/ Form/Title	Field Inspector Pass Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards STATE OF CALIFORNIA

STATE OF CALIFORNIA						
Electrical Pov	wer Distributi	on		(A)		
NRCC-ELC-E (Created 1				CALIFORNIA ENERGY COMMISSION		
CERTIFICATE OF C			1	NRCC-ELC-I		
	COUNTY OF SAN M		Report Page:	Page 5 of 5		
Project Address:	555 COUNTY CENTE	R, REDWOOD CITY, CA 94063	Date Prepared	l: 03/31/20		
DOCUMENTATIO	ON AUTHOR'S DE	CLARATION STATEMENT				
I certify that this (Certificate of Comp	iance documentation is accurate and com	plete.			
Documentation A	uthor Name:	Brian Duffy	Brian Duffy Documentation Author Signature:			
Company:		Blair, Church, and Flynn	Signature Date:	03/31/2020		
Address:	451 Clovis	Ave., Suite 200, Clovis, CA 93612	CEA/ HERS Certification	dentification (if applicable):		
City/State/Zip:		Clovis/CA/93612	Phone:	559-326-1400		
 The informatio I am eligible ur Compliance (re The energy fea Certificate of C The building de compliance do I will ensure th to the enforcer 	n provided on this ider Division 3 of t isponsible designed tures and perform ompliance conforr esign features or sy cuments, workshe at a completed sig ment agency for all on the builder provision) ance specifications, materials, componen n to the requirements of Title 24, Part 1 a stem design features identified on this Co ets, calculations, plans and specifications ned copy of this Certificate of Compliance	ect. pt responsibility for the building d ts, and manufactured devices for nd Part 6 of the California Code of ertificate of Compliance are consis submitted to the enforcement ag s shall be made available with the	tent with the information provided on other applicable ency for approval with this building permit application. building permit(s) issued for the building, and made available Certificate of Compliance is required to be included with the		
		,				
Company :		Blair, Church, and Flynn	Date Signed:	03/31/2020		
Address:	451 Clovis	Ave., Suite 200, Clovis, CA 93612	License:	E22220		
City/State/Zip:		Clovis/CA/93612	Phone:	559-326-1400		

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

STATE OF CALIFORNIA					
Electrical Power Distribution					
NRCC-ELC-E (Created 11/19)			CALIFORNIA ENERG	GY COMMISSIO	N 🥮
CERTIFICATE OF COMPLIANCE				NR	CC-ELC-
Project Name: COUNTY OF SAN MATEO		Report Page:		Ра	ige 2 of !
Project Address: 555 COUNTY CENTER, REDWOO	D CITY, CA 94063	Date Prepared:		(03/31/2
D. EXCEPTIONAL CONDITIONS					2
This table is auto-filled with uneditable comments	because of selections made or data entered	in tables throughout t	the form.		
Table B indicates the project is exempt from §130 indicates instantaneous kW demand and kWh for	.,	ts because the utility o	company has provided the project a mete	ering system	
E. ADDITIONAL REMARKS					2
This table includes remarks made by the permit a	oplicant to the Authority Having Jurisdiction.				
F. SERVICE ELECTRICAL METERING					?
This Section Does Not Apply					
G. SEPARATION OF ELECTRICAL CIRCUITS FO	R ENERGY MONITORING				2
Table Instructions: Complete this table for entired dropdown choices in column 01, indicate the load		,			the
Electrical Service Designation/Description:	PANEL "A"				
01	02	03	04	0	5
Load Type per Table 130.5-B ¹ Minimum Required Separation of Load per Table 130.5-B Minimum Required Separation of Load per Table 130.5-B Method ² Documents in Construction Documents					
			Documents	Pass	Fail
Charging stations for electric vehicles	All loads in aggregate	Method 1	E1.4		
* NOTES: If "Other*" is selected under Compliance	2 Method above, please indicate how complic	ance has been achieve	d 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 Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring Method 4: Complete metering system measures and reports loads by type

H. VOLTAGE DROP

November 2019

November 2019

CA Building Energy Efficiency Standards - 2019 Nonresid STATE OF CALIFORNIA

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

See <u>Chapter 8 of the Nonresidential Compliance Manual</u> for more detail on Compliance Methods.

sidential Compliance: http://www.energy.ca.gov/title24/2019standards	

Electrical Power Distribution NRCC-ELC-E (Created 11/19)						
CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION				
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		2				
There are no Certificates of Acceptance applicable to electrical power distribution re	equirements.					

November 2019

November 2019

Wire Run	Wire Size	Length	Vdrop	Average	Max
EV-1/EV-2	#6	44	0.56%	Vdrop	Vdrop
EV-3/EV-4	#6	39	0.50%	1.35%	2.17%
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%		
O CKR BKR D	#3/0	169	0.80%		
TO XFMR D	#3/0	26	0.40%		
TO PANEL D	#3/0	26	0.30%		

TITLE 24 DOCUMENT

November 2019

