

Estimator:	MIKE TAYLOR	<b>Electric Underground Specifications</b>	Notification#	119129575
ADE:	DAVE CAVAZOS		PM Order#	35229207
Rep:	JOEL YBARRA		D&C #	
Supervisor:	MICHAEL STEWART		Date:	3/12/2021

Applicant: Lance Eastby  
Location: 2277 W BELLAIRE WAY, FRESNO

Service Voltage:  Main Size:  1ph.Load:  kva. 3ph.Load:  kva.  
SC Amps Sym.

Primary Cable: Number:  Size:  **EPR - CONC - ENCAP - PE 25KV**

Service Cable: 

6	1,000 AL. XLP. 600V.	2	350 AL. XLP. 600V.
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Number Hot legs number and size Numbe Neutral number and size

**Applicant to Provide and Install Conduit, Trench, and Substructures  
(As indicated below and/or on the attached drawing)**

<b>Primary:</b> Conduit--Size	<input type="text" value="4"/>	No.	<input type="text" value="1"/>	Bend--Radius	<input type="text" value="36"/> "60"	Degrees	<input type="text" value="90/45"/>
<b>Secondary:</b> Conduit--Size		No.		Bend--Radius		Degrees	
<b>Service:</b> Conduit--Size	<input type="text" value="5"/>	No.	<input type="text" value="7"/>	Bend--Radius	<input type="text" value="36"/>	Degrees	<input type="text" value="90"/>
<b>Streetlight:</b> Conduit--Size		No.		Bend--Radius		Degrees	

<b>Primary Trench:</b> Overall Depth "	<input type="text" value="43"/>	Minimum Cover	<input type="text" value="36"/>
<b>Secondary Trench:</b> Overall Depth: "		Minimum Cover	
<b>Service Trench:</b> Overall Depth: "	<input type="text" value="31"/>	Minimum Cover	<input type="text" value="24"/>
<b>Streetlight Trench:</b> Overall Depth: "		Minimum Cover	

	Type / Style:	Size:	Code:	Barrier Post Req.	
<b>Transformer Pad:</b> (Type, Size, and Code )	<input type="text" value="IIE"/>	<input type="text" value="Loop Style"/>	<input 90"="" type="text" value="106" x=""/>	<input type="text" value="040292"/>	<input type="checkbox"/>
<b>Primary J-Box Pad:</b> (Type, Size, and Code )	<input type="text"/>				<input type="checkbox"/>
<b>Primary Pull Box:</b> (Type, Size, and Code)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Sec. / Svc. Box / Ped:</b> (Type, Size, Code)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

All Applicant Installations must pass PG&E inspection, do not backfill\* the trench until it has been inspected and approved.  
Contact the construction Department at **559-263-7312** or Email: **fresnodivisioninspectionrequest@pge.com**  
48 hours in advance for inspection. Cost of PG&E materials are subject to change if this design is altered by the applicant.

Please contact **JOEL YBARRA** at **559-417-1065** of any changes or need for additional information.

Please Call USA **811** at least 48 hours prior to excavating this area:

All existing facility locations are approximate, verify with hand tool excavation.

Mains 201 Amp and above, lugs to be supplied by pg&e.

Conduit to be direct burial (DB), PVC marked ASTM F512 DB120PVC or schedule 40 marked UL Approved 90°C. Conduit above ground level to meet Engr. Standard Dwgs. \*All conduits shall be proven free and clear of dirt, rocks, etc. by means of a mandrel, wire brush, etc. A polyester pulling tape shall be installed in all conduits and attached to an end cap. (No manufactured bends or use of heat shall be used to obtain conduit sweeps.)

Conduit depths are shown as minimums and may need to be increased when entering or leaving secondary splice boxes

**REFERENCE DRAWINGS** are available via the PG&E web site at: <http://www.pge.com/greenbook>. Refer to the **Electric and Gas Service Requirements** (Green Book) Section 3, Electric Service - Underground. Or you may contact your PG&E representative for copies of the following.

<input type="checkbox"/>	Corrosion Resistant Ground Rods and Ground Rod Clamps	<a href="#">013109</a>
<input type="checkbox"/>	Secondary Enclosures for Electric Underground (secondary service)	<a href="#">028028</a>
<input type="checkbox"/>	Concrete Pad for Three-Phase, Loop Style Pad-Mounted Transformers	<a href="#">045292</a>
<input type="checkbox"/>	Loc, Clearance, and Mechanical Details for Pad-Mounted and Subsurface Equipment.	<a href="#">051122</a>
<input type="checkbox"/>	Terminating UG. Electric Service 0-600 Volt in Customer-Owned Facilities.	<a href="#">058817</a>
<input type="checkbox"/>	Landscape Screen for Pad-Mounted Transformers	<a href="#">063422</a>
<input type="checkbox"/>	Methods and Requirements for Installing Res. UG. Elec. Service 0-600V.	<a href="#">063927</a>
<input type="checkbox"/>	Methods and Requirements for Installing Comm. UG. Elec. Service 0-600V.	<a href="#">063928</a>
<input type="checkbox"/>	Requirements for Bus Duct Entrance Termination Unit for Use With P/M Transformers.	<a href="#">063929</a>
<input type="checkbox"/>	Installation of Pad-Mounted, Load-Break Junction.	<a href="#">066212</a>

# Applicant Notes

**Refer to Electric & Gas Service Requirements (Green Book) or Separate PG&E Standard Drawings. Contact Your PG&E Representative for Copies, or Access <https://www.pge.com/greenbook>.**

**Conduit, Trenching and Backfill:**

1	All dimensions and locations are estimated, approximate and may be superseded by a JOINT TRENCH or COMPOSITE DRAWING.
2	Applicant to provide and install all underground facilities shown on this drawing in accordance with PG&E engineering standards and the following.
3	Applicant to provide all TRENCHING, SHADING, BACKFILL, AND COMPACTION.
4	4" of sand is required above and below conduit if native soil is not free of rocks, hardpan, etc. Backfill shall meet approval of PG&E Inspector
5	<b>Service Conduit: 063927, Page 2 Tbl.1 &amp; 2 (Residential.)</b>
	<b>Service Conduit: 063928, Page 3 Tbl.1, 2, &amp; 3 (Commercial / Industrial)</b>
6	<b>Distribution Conduit: PG&amp;E Drawing 062288, Pages 1-14.</b>
7	Provide long conduit sweeps where indicated. Recommended sweep radius (10' OF RADIUS PER INCH OF CONDUIT DIAMETER) Example: 4" CONDUIT = 40' RADIUS.
8	Manufactured bends or application of heat shall not be used to obtain long conduit sweeps. Do not exceed 300 degrees of bends including feed location.
9	All conduits shall be proven FREE and CLEAR, and a POLYESTER PULLING TAPE installed
	Manufactured bends are not to be CUT, SHORTENED, or ALTERED in any way.
11	Install: a) Temporary caps on conduits stubbed at riser poles, pads, and boxes
	b) Permanent caps on buried conduits ends
	c) End Bell Fittings are required for all conduits entering an enclosure knockout or pad window (they must be grouted)
	d) 36" minimum bend radius for primary conduit.
	e) 24" minimum bend radius for service and secondary conduit.
12	Identify ends of buried conduit with a vertical conduit scrap installed from ridged cap to ground level.
13	Conduits entering primary boxes shall be at a right angle to the window or wall.

**Subsurface Transformers and enclosures / sec. Boxes and Pedestals:**

**Padmounted Transformers, Switches, and Junction Boxes:**

19	<b>Concrete and Precast Pads for Three Phase Transformers: 045292 Pages 1-7</b>
20	<b>Single Phase and Duplex Padmounted Transformer Pads: PG&amp;E drawing 064309, Pages 1-6</b>
21	<b>Concrete Pads for PMH Load-Break Switches: PG&amp;E drawing 053318, Pages 9-12</b>
22	<b>Concrete Pads for Padmounted Fused Switches PMH 41 &amp; 43: PG&amp;E drawing 061043, Pages 9-12</b>
23	<b>Precast Pad for Padmounted Capacitor: PG&amp;E drawing 066197, Page 4 &amp; 13-14</b>
24	<b>Precast Pads for Padmounted Primary Junction: PG&amp;E drawing 066212, Pages 5-9</b>

**Grounds, Barrier Protection, and Landscape:**

25	<b>Ground Rods: 013109, Pages 1-3.</b>
26	Applicant to install all ground rods and interconnecting wire between grounds.
27	<b>Protection (BARRIER POST) for padmounted equipment: 051122, Pages 8-25</b>
28	Final determination of barrier post installation and number will be by PG&E Inspector.
29	<b>Landscape Screening: 063422, Pages 1-12</b>

**Safety & Workmanship:**

30	Notify USA 48 hours prior to digging for underground locating. <i>(see phone number above)</i>
31	48 hour notice required for underground inspections. <i>(see phone number above)</i>
32	Materials and Workmanship shall be first quality in every respect, plumb and true, and according to the specific requirements of the drawings and the above applicable notes and specifications.

33 The Applicant is to verify all proposed installations, conditions & specifications prior to commencing with any portion of work. Any discrepancies, deletions or inconsistencies are to be reported to the PG&E Representative immediately. The applicant shall comply with all applicable specifications. Any unapproved variations from PG&E plans or specifications relieves PG&E from all responsibility for the Substructure Design.

**Insert Drawing:**

EST:	MIKE TAYLOR		PM:	35229207
ADE:	DAVE CAVAZOS		SD:	
SUPV:	MICHAEL STEWART		NOTIF:	119129575
REP:	JOEL YBARRA		OTHER:	
PLNR:	JAN ZAFAR		SHT:	
	DATE:	 <b>PACIFIC GAS &amp; ELECTRIC COMPANY</b>		
	3/12/2021			