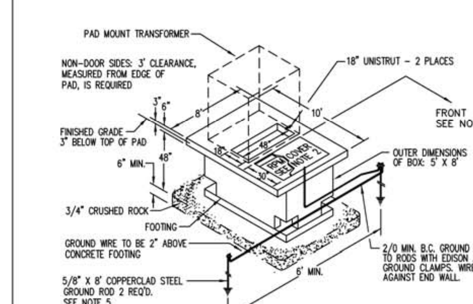
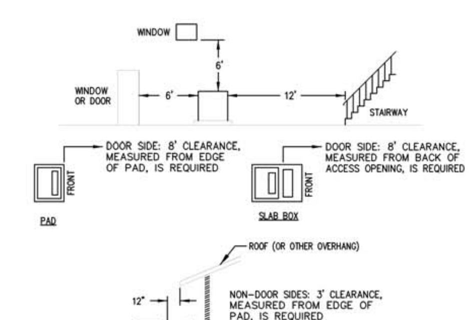
8'x10' SLAB BOX FOR 3ø PAD-MOUNTED TRANSFORMER (FOOTING REQUIRED)
SEE UGS SS 530



NOTES:
1. PAD OVERHANG TO REST ON UNDISTURBED EARTH OR WELL-COMPACTED BACKFILL TO PREVENT FUTURE SUBSIDENCE.
2. THE SLAB 30" x 48" CLEAR OPENING SHALL BE COVERED WITH A 2'-6" x 4' RPM COVER AS SHOWN ON UGS FC 618. 6½" STAINLESS STEEL BOLTS WITH STAINLESS STEEL CAPTIVE WASHERS WILL BE SUPPLIED FOR COVER BOLT DOWN.
3. SLAB RPM COVER RECESS SHALL BE CONCRETE (NONMETAL FRAMED), AND PROVIDED WITH 6½" THREADED INSERTS, EACH WITH CLEAN OUT HOLES.
4. AN 8' MINIMUM CLEARANCE IS REQUIRED ON DOOR SIDE OF CABINET FOR OPERATION. REFER TO FIGURE SS 530 (SHEET 3) AND FIGURE SS 530-4 (SHEET 3) FOR WORKING CLEARANCES.
5. GROUND RODS, CLAMPS, AND WIRE WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SEE UGS AC 703 FOR APPROVED GROUNDING MATERIALS. GROUND WIRE TO BE A MINIMUM OF 2/0 BARE COPPER.
6. MASTIC SEALANT IS REQUIRED AT JOINTS.
7. SEE UGS SS 530.2 FOR CONDUIT ENTRANCE GUIDELINES.
8. SEE UGS SS 500 FOR APPROVED MANUFACTURERS.

D46: Rev. 02/18/11

MINIMUM CLEARANCES FOR PADMOUNTED TRANSFORMERS
SEE DDS-3, 3-40



NOTES:
1. AN 8' MINIMUM CLEARANCE IS REQUIRED ON DOOR SIDE OF TRANSFORMER FOR OPERATION. THIS AREA MUST REMAIN CLEAR OF ALL OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, SHRUBS, TREES, GATES, FENCES, WALLS, SIGNS AND POLES.
2. PAD-MOUNTED TRANSFORMERS SHALL NOT BE LOCATED IN FRONT OF DOORS, STAIRWAYS, BENEATH WINDOWS THAT CAN BE OPENED, OR WHERE THEY WILL OBSTRUCT THE VISION OF VEHICULAR TRAFFIC
3. PAD-MOUNTED TRANSFORMERS SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM BUILDINGS OR OTHER STRUCTURES TO ENSURE ADEQUATE SPACE FOR OPERATING, TO MINIMIZE VIBRATION HUMS, AND TO MEET FIRE SAFETY REQUIRMENTS.
4. A CLEAR PASSAGEWAY OF 12 FEET MINIMUM SHALL BE AVAILABLE AT ALL TIMES, IMMEDIATELY ADJACENT TO ONE SIDE OF THE TRANSFORMER TO PROVIDE AN ACCESSIBLE ROADWAY FOR TRANSFORMER MAINTENANCE. THIS PASSAGEWAY SHALL BE DESIGNED TO MEET H-20 (20-TON) CONSTRUCTION.
5. TRANSFORMER STRUCTURES WILL NORMALLY BE INSTALLED ONLY IN NONTRAFFIC AREAS. TRANSFORMER PROTECTION IS REQUIRED WHEN COMPANY EQUIPMENT IS EXPOSED TO TRAFFIC. THIS PROTECTION MAY BE IN THE FORM OF BARRIERS, BARRICADES, OR CURB. A CURB MUST HAVE A MINIMUM HEIGHT OF 6 INCHES AND BE AT LEAST 6 INCHES THICK AND ITS FRONT FACE LOCATED 60 INCHES MINIMUM FROM THE EQUIPMENT FOUNDATION.

D54: Rev. 05/14/12

FOR PLASTIC PRODUCTS:
Plastic structures shown on this drawing are available from one or more of the following companies

Armorcast Products Co.
13230 Saticoy Street
North Hollywood, CA 91605
(818) 982-3600

Associated Plastics, Inc.
2626 Kansas Avenue
Riverside, CA 92507
(909) 787-0600

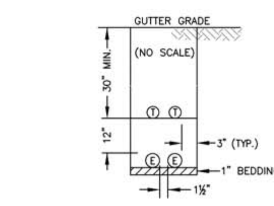
Brooks Products, Inc.
1850 Parco Avenue
Ontario, CA 91761
(909) 947-7470

Carson Industries, Inc.
1925 "A" Street
La Verne, CA 91750
(909) 596-1988

CDR Systems Corp.
533 N. Nova Road, Suite 208
Ormond Beach, FL 32174
(800) 929-8207

Quazite Corp.
615 North King Road
San Jose, CA 95133
(408) 923-5333 / (310) 225-5500

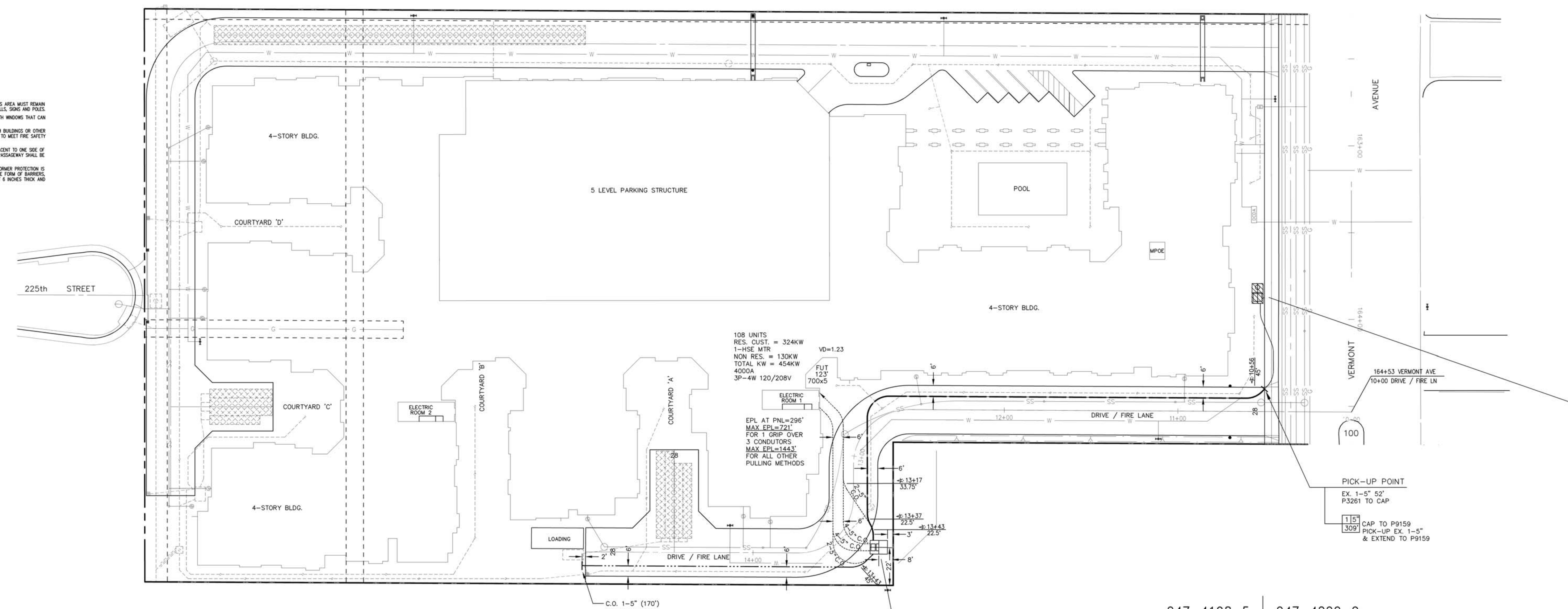
ALL CLP TRENCHES SHALL HAVE A MINIMUM UNIFORM DEPTH OF 30" BELOW FINISHED GRADE



ALTERNATE CONDUIT BANK SECTION
SHOWING DIRECT BURIAL SIMILAR CONSTRUCTION FOR FEWER CONDUIT

REFER TO UGS 120.2

048-4198-5 / 047-4198-5 + 048-4200-0 / 047-4200-0



EX: P5643261 PME [1]
5'x10'6"x7' TUB STYLE
INSTALLED ON DESIGN = 506015
IN: PME-10
RM: 3-SAFE END CAPS
IN: 6-600AMP EXT
W/ 200AMP TAP
IN: 6-600A DB ELBOWS

047-4198-5 | 047-4200-0

CI: P5649159 SLAB BOX [2]
8'x10' (BARRIERS REQ'D)
300 KVA-12KV
120/208 3ø
SN____
TLM=123.0%
108 FUT. CUST.
+ 1 HM W/SAFETY-SOCKET BOX
PER ESR-5

Cable 3-1/C 1/0 AL JCN
384' 12KV

P3261 TO P9159 (PME-10, POS. 2)
EPL P3261 TO P9159 = 939' (781 lbs)
EPL P9159 TO P3261 = 917' (763 lbs)
MAX EPL = 1523' (1267 lbs)

CONSTRUCTION NOTES:
Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company.

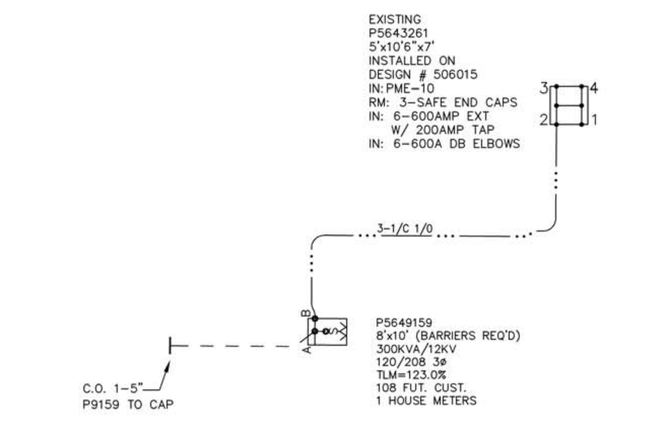
Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.
2. CONDUIT:
   a. Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
   b. Minimum cover on private property is 30" below finished grade, unless noted otherwise.
   c. Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 100.1, 110 AND 120.
   d. For the type of conduit for this job, See UGS CD 110.1.
   e. Install all risers per UGS CD 160, 161, 162 and 170.
   f. Cap all main line conduits per UGS CD 1-8 and service conduits per UGS CD 150.
   g. Install blank conduit plugs in all conduits terminating into Vaults, Manhole's, PMH's, SOE's & all cap locations, per UGS CD 180.1 & UGS CD 180.2
   h. Install pull rope in all conduit runs. Pull rope to be 1/4" polypropylene or polyethylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS GI 040.
   i. All conduit must be mandreled with the approved mandrel UGS CD 197.
3. CONDUIT RADIUS REQUIREMENTS:
   a: The minimum radius for bends are:
      36" for conduits 3" in diameter or smaller
      48" for conduits 4" and 5" in diameter
      60" for 6" diameter conduit
   b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).
4. EXCAVATION AND BACKFILL:
   a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
   b. All excavations shall be in accordance with the California State Construction Safety Orders (when applicable), Edison specifications, and all governing local ordinances.
   c. Each trench to be a uniform depth below final grade prior to installation of Edison conduit or structures.
   d. Backfill shall be provided by the Contractor for all excavations and shall include crushed rock, concrete, and/or imported backfill, when required.
   e. Backfill with a [illegible] of one sack per yard sand cement slurry around and over vaults and manholes per UGS GI 030, section 6.4 and around PMH's within one foot of finished grade, per UGS SS 590.1.
   f. Backfill, per Edison specifications, shall immediately follow conduit or substructure installation. At no time shall conduit be left exposed over 24 hours.
   g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, no rocks larger than 12" diameter are permitted.
   h. All backfill shall be compacted to meet or exceed local ordinances or other requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or structures.
5. PAVING:
   Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall establish a program of repaving acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.
6. STRUCTURES:
   a. All substructures shall be constructed or installed to Edison specifications.
   b. Install protection barriers per UGS MS 830 when required in areas exposed to traffic, per Edison Inspector.
   c. All conduit lines and concrete floored substructures shall be water tight.
   d. All grounding materials shall be furnished and installed by the Contractor.
7. RETAINING WALLS:
   When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same, or in areas subject to erosion. Design and installation must comply with local building ordinances. Refer to Edison Inspector for typical space requirements.
8. PERMITS:
   All permits necessary for excavation shall be provided by the Contractor/Developer.
9. ACCESS:
   Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment.
10. SERVICES:
   a. Meters and services shall comply with Edison Electrical Services Requirements.
   b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities.
11. LOCATION:
   a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
   b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.
12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.
13. SURVEY:
   Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and property line stakes must show any offset measurements.
14. COORDINATION AND SUPERVISION:
   The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.
15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
   The drawing prepared for this job may also cover the facilities to be installed for the telephone company and/or other utility. Any questions concerning details of their installation should be referred to the company concerned.
16. OWNERSHIP:
   Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned.
17. WARRANTY:
   Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations herein are free from defects in workmanship and are in conformity with Southern California Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction and that of any governmental agency having jurisdiction and at Applicant's expense any breach of this warranty which may become apparent through inspection or operation of underground electric system by Company during this warranty period.
18. INSPECTION:
   Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.

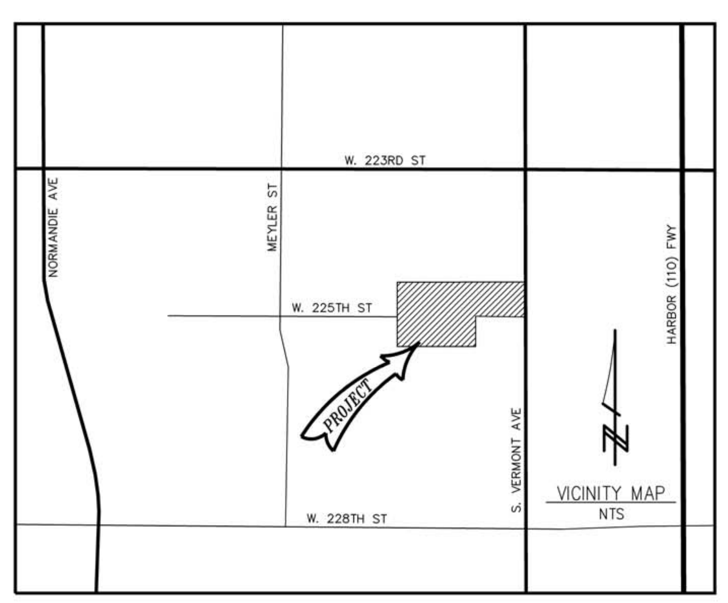
Duct and Structure Inspector: . Phone: .
Cabling Construction Coordinator: . Phone: .

D05: Rev. 07/17/07

SINGLE LINE

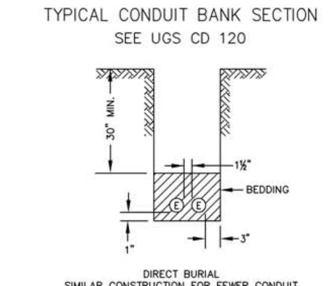


DRIFT 12KV
NEPTUNE SUB



VICINITY MAP
NTS

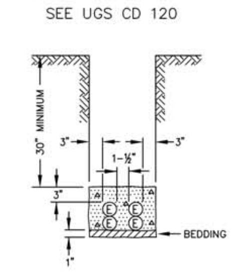
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



DIRECT BURIAL
SIMILAR CONSTRUCTION FOR FEWER CONDUIT
2 CONDUITS MAX.

D81: Rev. 09/23/09

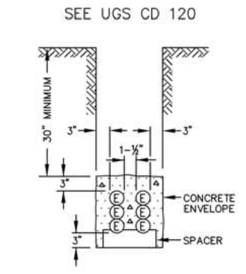
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



SEMI-ENCASEMENT
3 OR 4 CONDUITS

D73: Rev. 09/23/09

TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



FULL ENCASEMENT
MORE THAN 4 CONDUITS
(BASE SPACER REQUIRED)

D72: Rev. 09/23/09

NOTE: ALL PRI. & SEC. CABLES TO BE CLP; ALL SERVICE CABLE WITHIN MAINLINE TO BE CLP IN DUCT (SIZE AS NOTED) OWNED & MAINTAINED BY SCE. ALL SERVICE CABLE BEYOND MAINLINE TO BE CLP IN CUSTOMER OWNED DUCT (SIZE AS NOTED).

CONTRACTOR/DEVELOPER NOTES
- TEMPORARY BARRIERS TO BE PLACED AROUND ALL EDISON STRUCTURES DURING CONSTRUCTION
- CUSTOMER TO VERIFY EXACT LOCATION OF STREET LIGHTS PRIOR TO INSTALLATION.
- WHERE SLEEVES OR STUB OUTS ARE INSTALLED, CONTRACTOR TO MANDREL AND INSTALL PULL ROPE
- ANY SERVICES THAT ARE NOT INSTALLED IN CONJUNCTION WITH THE MAIN LINE SYSTEM WILL REQUIRE A MINIMUM OF 3" CUSTOMER OWNED SERVICE CONDUIT AT THE TIME OF CONSTRUCTION OF THE HOME.
- DEVELOPER IS RESPONSIBLE FOR LOCATING EXISTING DUCT, SLEEVES, AND STUB OUTS. LOCATIONS SHOWN ON MAP ARE NOT GUARANTEED. IF NOT EXISTING, THE DEVELOPER MUST PROVIDE THESE ITEMS.

PROJECT REQUIREMENTS	
EDISON EASEMENT REQUIRED	Y
PWRD 88 REQUIRED	Y
PERMIT REQUIRED	Y
PERMIT TYPE: TRAFFIC	
OUTAGE REQUIRED	N
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	N
CONVEYANCE LETTER REQ'D	N

JOINT TRENCH CALC
SCE	X
TEL	X
CATV	X
GAS	X

CHECK APPROPRIATE LINE

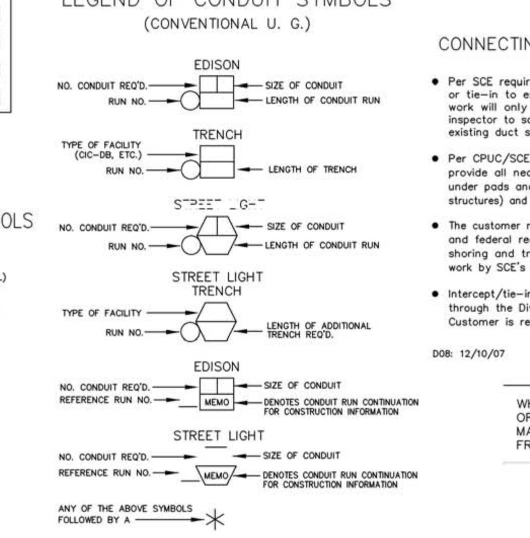
NOTE:
P.O.E. = POINT OF EXIT FROM MAINLINE TRENCH

LEGEND OF DRAFTING SYMBOLS
TRENCH
- EDISON CONDUIT (DIST. & SL)
- CUST. OWNED CONDUIT
- RESIDENTIAL SERVICE CABLE
- E — EXISTING CONDUIT

STRUCTURES
- VAULT
- MANHOLE
- PME 3-5
- PME 6-12
- PULL BOX
- HANDHOLE
- SOE
- PAD
- 4'x4' BURD SWITCH ENCLOSURE
- 36" BURD SWITCH ENCLOSURE
- BURD TRANSFORMER ENCLOSURE
- STREET LIGHT ELECTROLIER
- C/I METER PANEL
- FIRE HYDRANT

D18: Rev. 5/08/2006

LEGEND OF CONDUIT SYMBOLS
(CONVENTIONAL U. G.)



DENOTES THE FOLLOWING:
DB CONDUIT WITHOUT ENCASEMENT IS ACCEPTABLE FOR PORTIONS OF TRENCH WITH ONLY ONE OR TWO CONDUITS
SEMI-ENCASEMENT IS REQUIRED FOR PORTIONS OF TRENCH WITH ONLY THREE OR FOUR CONDUITS
FULL ENCASEMENT IS REQUIRED FOR MORE THAN FOUR CONDUITS

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE. HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

UNDERGROUND SERVICE ALERT
Dial 811
Call USA
For Underground Locating
2 Working Days Before You Dig

CONNECTING TO EXISTING SCE STRUCTURES
- Per SCE requirements, customers are not allowed to enter, intercept or tie-in to existing SCE structures, equipment or conductors. This work will only be performed by SCE. Contact the appropriate SCE inspector to schedule an appointment. Customers may connect to an existing duct stub without a SCE inspector present.
- Per CPUC/SCE's Rule 15 B.1.A and Rule 16 D.1.A., the customer will provide all necessary excavations (with the exception of excavation under pads and primary splice boxes), material (including conduit and structures) and encasement, to be utilized in the intercept/tie-in process.
- The customer must adhere to all applicable Cal-OSHA, local, city, state and federal regulations, (including, but not limited to, all necessary shoring and traffic control in place to perform the intercept/tie-in work by SCE's underground civil contractors(s))
- Intercept/tie-in work must be coordinated with SCE's civil contractors through the Division Inspector/CCM to limit exposure of excavation(s). Customer is responsible for securing excavation(s).

D08: 12/10/07

WHERE CONDUITS ARE PICKED UP OR INTERCEPTED, CONDUIT SHALL BE MANDRELLED AND PULL ROPE INSTALLED FROM TERMINAL TO TERMINAL.

INSTALL METHOD:
☒ EDISON
☐ APPLICANT

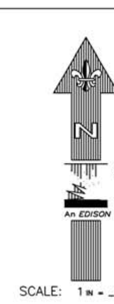
THIS PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRIC SUBSTRUCTURES
Developer: TORRANCE PROPERTY OWNER, LLC
Attn: BJ PLAMER AND ASSOCIATES, INC
Address: 3991 MACARTHER BLVD, SUITE 200
NEWPORT BEACH, CA 92660
Telephone: (760) 842-7510
FAX:

Dwg./Rev.	Developer's Signature	Date
Original		
Rev.		
Rev.		
Rev.		

CHANGES IN THESE PLANS WILL REQUIRE AN ADDITIONAL 3 TO 4 WEEKS AND CUSTOMER WILL BE CHARGED IN ADVANCE FOR REQUESTED CHANGES.

D26: Rev. 02/12/08

LOAD INFORMATION
BLDG. SQ. FT. (ADJ. AVG.)	1053
LARGEST A/C UNIT (TONS)	2
AVG. A/C TONNAGE	2
DEMAND PER LOT (KW)	3
PANEL SIZE (AMP)	4000
CLIMATE ZONE	3
NUMBER OF UNITS	108 + 1 HM
NUMBER OF ALLOWANCES	N/A
ALLOWANCES LOT NUMBERS	N/A



SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

SCALE: 1 IN = 30 FT
0 30 60

FINAL DESIGN
APPROVED FOR CONSTRUCTION

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED
06/16/14	UPD MATERIALS IN STA. 1, UPD SINGLE LINE-NO RE UPLOAD PER REDLINE/PLANNER	GG	JM	JPB
03/03/14	RE-ROUTE SERVICE DUCTS FROM P5649159 PER PLANNER'S REDLINE	GG	ME	JPB
02/05/14	NOTE: PLANNER SAID TO USE TWO BANKS OF 6-5" FOR THE 4000AMP PANEL	GG	ME	JPB
01/24/14	ROTATE EXISTING PME, AND FIX EXISTING DUCT TO MATCH R-20, AJUST PRI. CABLE	GG	ME	JPB

DISTRICT: 32-COMPTON
PROJ. MGR.: JEFF BURT, PHONE (909) 592-3737
PLANNER: GABRIEL GUY, PHONE (626) 308-808-
SR NO.: 1643765
FOREMAN:
TRUCK NO.:
P/E:
INVENTORY MAP NO.: 04741985
THOMAS GUIDE:
GRID NO.: 000
DESIGN NO.: 505950
CSD 140 Y___ N___
BY-PASS CODE
EXISTING CHANGE TO ___
TLM CHECKED ___ %LOAD
J.P.A. NO.
ASSOCIATED DESIGN NO.: 505958
PRODUCT/SAP NO.: TD 720657 - LINE EXTENSION
PRODUCT/SAP NO.:
PRODUCT/SAP NO.:

TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #
F	G. GUY	02/05/14	J. P. BROWN	M. ESTES	52965
P		08/02/13	J. NOCHE	M. ESTES	52965

Southern California Edison Company

PROPOSED CONSTRUCTION (LOCATION)
TRACT 67784 PHASE 1
S. VERMONT AVE / 223RD ST
TORRANCE

SHEET 1 OF 1
JOB NO. 0505950

Save Date: Jun 16, 2014 - 8:13 by MEDINAJA