CUSTOMER INFORMATION BOOK

FOR INSTALLING INDIVIDUAL UNDERGROUND ELECTRIC FACILITIES



TURLOCK IRRIGATION DISTRICT

Revision February 2025

P.O. BOX 949 333 EAST CANAL DRIVE TURLOCK, CA 95381 (209) 883-8415

Updates for 2025

Construction Standards

- 30571- Added Warning Tape and Compaction Test
- 34605 Added Conductor and Conduit Table
- 34610 Initial Issue IU w/ Service Box
- 34701 Revised Conductors Based on NEC Table 310.16
- 35201 Updated Conduit Sizes

Material Standards

- 2022 Added Interior Dimensions and "Trade Size" Column
- 2170 Added Swedge Couplers
- 2202 Added 4/0 Quad

TABLE OF CONTENTS

Section 1 General Information Inspection Request Form and Check Off Sheet	Page 2 4
Section 2 Meter Requirements	7
Section 3 Construction Standards Drawings	12
Section 4 Material Standard Drawings Developer Provided Materials	41 55
Section 5 Locating Materials	73
Section 6 Inspections	77
Section 7 TID Contact List	79

Section 1

General Information

1.1 WHAT IS AN I.U.?

An individual underground (I.U.) is a single service fed underground from an overhead transformer mounted on a TID pole. I.U. service panel sizes shall be 100 amp to 600 amp. For panel sizes greater than 600 amp, consult TID Electrical Engineering.

1.2 WHEN CAN I HAVE AN I.U. SERVICE?

You can have an I.U. service if your service panel is close to existing overhead electric facilities (generally less than 300 feet), or if an overhead line extension can be built close to your panel.

1.3 HOW DO I PROCEED TO GET AN I.U.?

- 1.3.1 Apply with Electrical Engineering at TID. Provide panel location, voltage and load, date needed, and other applicable information.
- 1.3.2 Pay TID the I.U. connection fee and sign up for the meter.

1.4 WHAT IS THE PROCESS AFTER I APPLY?

- 1.4.1 TID will field the job, prepare design drawings and material list, and will provide construction information to you.
- 1.4.2 You will provide an estimate of the date you will install your facilities and need power, and TID will schedule to set a pole if necessary.
- 1.4.3 You will acquire the appropriate materials, dig the trench, and install the conduit and service wire. E-mail (<u>inspections@tid.org</u>) or Fax (209-656-2140) TID for inspection prior to backfilling the trench. See the <u>TID Inspection Request Form</u>.
- 1.4.4 You will need your panel inspected and tagged by the local governing inspection authority (city, county, etc.). If you are going to be ready for power earlier or later than what you told TID, please notify us so that we can update our schedule.
- 1.4.5 When tagged, you will need to notify TID at the numbers above so we can energize your panel.

1.5 WHERE DO I PUT MY PANEL?

TID has the final say on meter location, and some locations are prohibited. There are requirements for meter height and access also. See <u>Section 2</u> for more information.

1.6 WHERE DO I GET MATERIALS, AND WHAT KIND?

Depending on the size of your panel and other conditions, TID will inform you of wire and conduit size for your panel. You must install the size and type of materials approved by TID (TID does not accept copper service wire or compacted wire). For details on material requirements and where they can be purchased, see <u>Section 4</u> and <u>Section 5</u>.

1.7 WHAT ELSE DO I NEED TO KNOW?

Your service panel must be acceptable to TID as well as to the inspecting authority. You should tell your supplier to provide a panel that meets TID's EUSERC requirements, and/or consult with TID directly prior to purchase.

You should familiarize yourself with the drawings and notes in the following sections to ensure your installation work is safe and meets requirements.

In addition to installing the conduit and service wire, you are responsible to connect the service wires to your panel. TID will connect them on the other end.

If TID construction has not been completed within 2 years of receipt of a completed application, the customer may be required to re-apply under the then current Electric Service Rules, Electric Service Schedule of Charges, and other construction requirements.

1.8 WHAT IF I NEED A BACKUP GENERATOR?

Backup generators are a significant safety issue. Even a small generator that is improperly connected can result in serious injury or death to TID line workers and customers and can cause significant damage to facilities. For this reason, TID requires that any backup generators our customers may use to supply load that is also supplied by TID must be interconnected via a TID-approved transfer switch, such that the generator in a fail-safe manner is prevented from ever connecting to TID's system. To avoid expensive redesign and panel/equipment replacement, please provide a single line diagram showing the proposed interconnection of any generators, and detailed model and specifications for the proposed transfer switch to TID for approval prior to purchase of equipment. In general, TID will approve transfer switches that are mechanically interlocked throw-over type knife blade switches without bypass provisions, though alternative transfer switch types will be considered if adequate details are provided.

TID Inspection Request Form

(Please Print) Complete all of the information below and either e-mail (<u>inspections@tid.org</u>) or fax (209-656-2140) to the Turlock Irrigation District Line Department

Address of Inspection:

Contractor's Name:		

Phone Number:

Phone Number:

All conduits and substructures installed for TID use must be inspected prior to backfilling. Failure to obtain an inspection will require the installer to expose the buried facilities for inspection.

Refer to the appropriate TID information booklet for material specifications and construction standards. Booklets may be obtained at 333 East Canal Drive in Turlock or online at <u>http://tid.com/power/engineering-construction</u>





Underground Inspection Check Sheet

INSPECTIONS: www.tid.org/power/electrical-inspection-request/ Inspections: (209)883-8476 OR call (209) 606-0136 for questions

CUS	TO	ME	RΝ	AN	IE:

CONTACT NUMBER:	JOB LOCATION:
JOB NUMBER:	W.O. NUMBER:
INSPECTIONS: PRE CONSTRUCTION MEETING	INSPECTOR: DATE:
TRENCH: *Ref: 30571 PRIMARY CONDUIT: *Ref: 30570,35201 SECONDARY CONDUIT:	
*Ref: 30571,35201 WIRE: *Ref: 30800,34701 SECONDARY BOX:	
*Ref: 34805,35201 TRANSFORMER PAD: *Ref: 35051,35054 GROUND GRID:	
*Ref: 35051 REBAR: *Ref: 35101 SECONDARY MANDRIL:	
PRIMARY MANDRIL: *Ref: 35201 PANEL: Ref: 34815	
BOLLARDS: Ref: 35151, 35152, 35154,35155 INSPECTION TAG:	
KNOX BOX: Ref: 50510 VAULT: Ref: 35202	

*Reference Constriction Standards	customer information sticker

*Photos will NOT be accepted in lieu of inspections

Section 2

Meter Requirements

2.1 Meter Height

The requirements for meter height, which is the vertical distance between the centerline of the meter and the ground or standing surface, shall be as follows:

48" minimum - 75" maximum for single meter residential & meter pedestals

36" minimum – 75" maximum allowed for commercial meter clusters in selfsupporting, rain-tight cabinets

2.2 Meter Working Space

Working space in front of the meter permits access to the metering installation and provides working safety for personnel. A working space entirely on the property of the customer is required in front of all meters except for buildings constructed on zero lot lines.

The working space is to be kept clear and unobstructed and shall not be used for storage.

When meters or metering equipment are placed in cabinet enclosures, the clear working space shall extend from the outer face of the cabinet.

The height of the clear working space shall be 78 inches minimum from the standing surface.

The width of the clear working space shall be 36 inches minimum for a one meter installation and shall extend the additional width necessary for access to the total number of metering panels. The centerline of any meter shall not be less than 18 inches from any adjacent side wall or other protruding obstruction.

The depth of the clear working space shall be 36 inches minimum for services rated 150 volts or less to ground. When the service is rated in excess of 150 volts to ground, the depth shall be as required by applicable electrical codes or as dictated by the physical design and arrangement of the metering cubicles.

2.3 Meter Locations – General Conditions

In order that the most satisfactory meter location may be determined and adequate space provided, TID should be consulted while the building or residence is in the preliminary planning stage. Installation of additional facilities at the customer's expense or future relocations at his expense may be prevented by early consultation with TID.

The following basic location requirements shall apply in all cases:

- 2.3.1 All locations for meters and metering equipment are subject to TID approval.
- 2.3.2 Meters shall be accessible (with dual locking devices if necessary) during and after landscaping or other building construction. No meter shall be enclosed by any fencing without permission from an authorized TID representative.
- 2.3.3 Meters and metering equipment installed on or recessed in the external surface of any building shall have a clear working and standing space entirely on the property of the customer served. Any exception from this requirement must be approved by TID.

2.4 Unacceptable Locations for Electric Meters

- 2.4.1 In any location that is hazardous to equipment or persons or unsuitable for entry, such as:
 - a. any elevator shaft.
 - b. any doorway or hatchway.
 - c. directly over any stairway, ramp or steps.
 - d. any area accessible only through a trap-door, hatchway, or by means of a ladder.
 - e. any area where personnel may contact exposed high voltage conductors or equipment in motion.
- 2.4.2 In any place where vibration, moisture, excessive temperature, fumes, or dust may damage the meter or interfere with its operation.
- 2.4.3 Within or requiring access through any bath, shower, powder or toilet room.
- 2.4.4 On any portion of a building where later landscaping, fencing or other building construction will make the meter inaccessible.
- 2.4.5 Within any enclosed area that contains or will contain gas meters.
- 2.4.6 Meters and metering equipment shall not be installed within any locked facility in which TID would be denied access at any time of the day.
- 2.4.7 Indoors.
- 2.4.8 Outdoor meters shall not be installed where they will interfere with traffic, sidewalks, driveways, or where they will obstruct the opening of doors or windows, or in any location which may be considered hazardous or cause damage to the metering equipment.

2.5 Remote Metering

Remote metering is acceptable in instances where an external panel or switchboard is not utilized.

The following special arrangements are required:

- 2.5.1 Applicant shall provide an approved CT mounting cabinet that complies with the previous paragraph "Meter Locations General Conditions."
- 2.5.2 1 1/4" steel conduit between the CT cabinet and meter socket.
- 2.5.3 Meter will be located within 50 conductor feet of CT cabinet.
- 2.5.4 Junction boxes are permitted only if they can be sealed.
- 2.5.5 Couplings must have seal screws.
- 2.5.6 For special meter distance requirement, refer to construction standard 50510.

2.6 Planning and Grouping of Additional Meters

Occasionally there is need to locate and install additional service and metering equipment after the originally planned electric service for a building is installed and energized. Where possible, additional meters should be grouped with those electric meters already in service.

2.7 Two or More Houses on One Lot

If more than two dwellings or buildings are located on the same lot, consult TID to determine acceptable meter locations before proceeding with the wiring of the buildings.

For a single-family dwelling located behind another dwelling or commercial establishment on an inside (non-corner) lot not subject to further subdivision, the meters shall be located adjacent to each other at the building closest to the distribution line from which service will be supplied. All wiring beyond the meters will be at the customer's expense.

For multi-dwelling buildings constructed on the rear of non-commercial lots, if practical, and at the customer's request, TID will install separate service facilities to the rear building. The meters for the rear building shall be grouped together at a suitable location at the rear building.

2.8 Meter Occupancy Identification

Where meters are grouped at a common location, such as for two or more houses on a lot or for a multiple occupancy building, either residential or non-residential, each meter position and its directly identifiable service disconnect shall be clearly and permanently marked by the building owner or his representative to indicate the occupancy served (Per N.E.C. 230-72a). Examples of permanent marking shall be engraved plate attached by screws, rivets, or two-part epoxy. Clear identification means a legible apartment or street number. The store name may be included but does not constitute a clear designation in itself. Apartment or suite numbers must be on or adjacent to the door of each unit.

2.9 Sealing of Meters and Metering Equipment

All meters and enclosures for meters, metering equipment and service entrance equipment on the line side of the meter will be sealed by TID. The TID seal shall not be broken except by an authorized representative of TID. No person is permitted to tamper, remove, replace, or in any way interfere with a meter or its connections as placed by TID.

2.10 Meter Socket Bypass Devices

Automatic bypass or circuit closing devices that close when the meter is removed from the socket shall not be used.

Manual circuit closing devices are required on all service entrance equipment exceeding 30 amps nameplate rating except domestic, signboards and temporary service. Service entrance equipment must be continuously rated per U/L 414.

2.11 Self-contained Metering Defined

A self-contained meter is capable of carrying the total current at the voltage of the electric service supplied to the customer. Sockets for self-contained meters are directly connected to the customer's service entrance conductors, and the meter is inserted into the socket. Meter sockets are available with nominal ratings of 100 or 200 amperes. Contact TID for details on single-phase, 400 amp service.

2.12 Transformer-rated Metering Defined

When the electric service needs of the applicant exceed the ampacity or voltage limitations of a self-contained meter, metering transformers, which connect directly to the customer's service entrance conductors, must be used. A transformer-rated meter is then connected to the metering transformers to measure the energy delivered to the customer. The metering transformers and the transformer-rated meter(s) are furnished and installed by T.I.D.

2.13 EUSERC

Electric Utility Service Equipment Requirements Committee (EUSERC) is an organization whose purpose is to promote uniform electric service requirements among the utilities. TID is a member of and supports EUSERC. As such, when an applicant wishes service within the District service area and the equipment chosen meets EUSERC, it is understood, with some specific exceptions, that TID will provide power to the equipment. Check with the District for details.

2.14 Switchboards

Switchboards are considered a specialty item for metering equipment. TID requires two sets of approval drawings of such equipment. If TID takes exception to the equipment, the applicant will be notified of the changes required. Should the applicant request service and the equipment is not acceptable, service will not be connected. Have the equipment checked and approved prior to requesting service. It will save time and headaches for everyone involved.

The switchboard must at a minimum meet EUSERC requirements. A switchboard service section has a hinged meter panel located in front of the instrument transformer compartment. Hinged meter panels must have EUSERC handles and open a minimum of 90° with meters and test switches mounted. Hinged meter panels must be sealable.

For special meter distance requirement, refer to construction standard 50510.

Section 3

Construction Standards Drawings	Page
30571 – Service Trench Configuration	13
30800 – Guide for Pulling Cables	14
34605 – Individual Underground	15
34610 – Individual Underground with Service Box	19
34701 – Service Wire Sizes	22
34805 – Service Box Installation	23
34810 – Minimum Requirements, Residential Service	25
34815 – Underground Residential Service Panel Location	26
34820 – Minimum Requirements, Single Mobile Home	27
34830 – Minimum Requirements, Multiple Mobile Homes	28
34840 – Minimum Requirements, Multiple Metering	29
35201 — Underground Conduit Application	30
50500 – Current transformer cabinets 400-800 Amps.	32
50510 – Criteria for Electrical Rooms	33
50600 – Low & High Voltage Electric Service Meter Socket Requirements	34
51092 – Net Metering Residential & Small Industrial Wiring & Meter Installation	37
51093 – Net Metering Line Side Connection Wiring & Meter Installation	39



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REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	
G	ADDED WARNING TAPE AND COMPACTION TEST	ADL					SSG	05-2024	SERVICE TRENCH CONFIGURATION
F	UPDATED TITLEBLOCK, ADDED HYPERLINK	ELJ	RWB	LJC	RA		MSG	09-2016	
Е	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	
D	CLARIFY GENERAL & TID NOTES	BB	ETE	RWB	LBG		RA	01-1994	SHEET 30571 G 13
С	DIMENSION CHANGE	SCP	RWB	LBG	RA		AKH	09-1989	1 OF 1 DWG. NO.

DIRECTIVE FOR PULLING CONDUCTOR IN UNDERGROUND CONDUIT

- 1. On all pulls, the pullout manhole should be rigged so that an adequate amount of conductor for splicing or terminating may be pulled into the manhole without the necessity of taking hitches on the conductor sheath or jacket. The maximum stress occurs at the leading end of the conductor.
- 2. Conductor pulls shall be made such that bends are nearest to the feed end. This arrangement results in minimum tension on the conductor.
- 3. Before making a pull, the duct line should be clear and free of dirt, rocks, etc. If necessary, clean duct by use of wire brush, mandrell, etc.
- 4. The pulling line used to pull conductors through conduit shall be of adequate strength to pull the maximum allowable conductor pulling tensions. The use of "Flat Strap" or "Mule Tape" (TID Stock number U-8200-004) pulling line is recommended to avoid the pulling line burning through the elbows during difficult pulls.
- 5. Tables 1 through 4 describe the conductors used in underground construction and list the maximum allowable pulling tensions for each conductor. The use of a basket grip over the insulation is allowed only on pulls where the maximum tensions are expected to be less than 1,000 pounds per conductor. Pulling eyes that pull directly on the conductor(s) are acceptable on all pulls.
- 6. The minimum bending radius for insulated conductor shall be calculated as the overall conductor diameter times the multiplier as shown in Table 5, Sheet 2 of this standard.
- 7. The use of a conductor protector (TID Stock Number U-6360-001) is required on all conductor pulls into conduit as shown in Figure 1, Sheet 3 of this standard. The cable should be carefully guided into the duct, particularly at the start of a pull. Ample amounts of conductor pulling compound (TID Stock Number U-6290-001) should be used. The use of a feed-in tube extending from the pulling area directly into the conduit may be utilized where hand feeding the conductor into horizontal conduits is difficult.
- 8. When the conductor pull is complete, the conductor ends shall be wiped clean of the conductor pulling compound. All conductors shall then be capped to prevent water from entering the conductor strands. On primary cables, use heat shrink end caps (TID Stock Number U-6390-XXX). On secondary conductors, seal the conductor ends with a double wrap of plactic tape.

Cable Size	Insulation	Cable O.D. (in.)	Maximum Allowable Pulling Tension (Ibs./cable)
#2	TR-XLPE	1.14	400
1/0	TR-XLPE	1.24	400
1/0	EPR	1.22	400
600 MCM	EPR	1.80	4,800
1000 MCM	EPR	2.26	8,000
1100 MCM	EPR	2.05	8,800

Table 1 Primary (25 kV) Cable Physical Data

	TURLOCK IRR	[GA	TI	ON	D	IST	RI	СТ	CONSTRUCTION STANDARDS
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	
F	UPDATED FIGURE 1 SHEET 3	ADL					SSG	03-2023	GUIDE FOR PULLING CONDUCTOR
Е	UPDATE TITLEBLOCK, TABLES, FORMAT	ELJ					MSG	09-2016	IN UNDERGROUND CONDUIT
D	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	
С	UPDATED PRIMARY CONDUCTOR DATA	MSG	GKT	DBM	ко		BLL	03-2007	SHEET 30800 F 14
В	REDRAWN IN AUTOCAD, ADD 1000 PRIMARY	SDC					BLL	04-2003	1 OF 3 DWG. NO. PAGE

	· · ·	
Conductor Size	Conductor O.D. (in.)	Maximum Allowable Pulling Tension (lbs./conductor)
#6	0.36	160
4/0	0.70	1,270
350 MCM	0.89	2,100
500 MCM	1.02	3,000
750 MCM	1.20	4,500
1000 MCM	1.35	6,000

Table 2 Secondary (600 V) Conductor Physical Data (Single Conductor)

Table 3 Secondary (600 V) Conductor Physical Data (Triplex Conductor)

Conductor Size	Conductor O.D. (in.)	Maximum Allowable Pulling Tension (lbs./conductor)
1/0	1.09	1,670
2/0	1.18	2,235
4/0	1.39	3,175
350 MCM	1.78	5,470
500 MCM	2.04	8,100

Table 4 Secondary (600 V) Conductor Physical Data (Quadplex Conductor)

Conductor Size	Conductor O.D. (in.)	Maximum Allowable Pulling Tension (lbs./conductor)
1/0	1.16	2,305
2/0	1.25	3,035
500 MCM	2.16	11,100

Table 5 Minimum Bending Radius Multiplier

Type of Conductor	Multiplier
Primary (25 kV) Cable	12
Secondary (600 V) Conductor	5

See Note 6, Sheet 1 of this standard

GUIDE FOR PULLING CONDUCTOR IN UNDERGROUND CONDUIT

CONSTRUCTION STANDARDS

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GUIDE FOR PULLING CONDUCTOR
IN UNDERGROUND CONDUIT

CONSTRUCTION STANDARDS

16 PAGE

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- 1. Service cable (provided by customer) is to be of sufficient length to exceed secondary level by three feet. Coil cable and tie in manner that will not damage cable.
- 2. After the elbow, (1) 10' straight length of conduit up the pole (no bell up) to be provided by customer.
- 3. TID to inform customer which quadrant of the pole the conduit is to rise.
- 4. TID to inspect conduit prior to backfilling.
- 5. All elbows to be 36" radius, schedule 40. Attach conduit straps to pole using washerhead lag screws.
- 6. Refer to Construction Standard 34805 for service box installation.
- 7. No service greater than 225kVA (480V) will be served from pole mounted transformers.
- 8. No more a than total of 270° [3 (90°) or combinations of 90° and 45°] bends in the conduits

	TURLOCK IRR	CONSTRUCTION STANDARDS							
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	
J	ADDED CONDUCTOR AND CONDUIT TABLE						SSG	01-2023	INDIVIDUAL UNDERGROUND
Ι	UPDATED TITLEBLOCK AND TABLES						MSG	09-2016	
Н	REPLACE TITLE BLOCK, ADDED MATERIAL STD		MSG	JSA	MLH	SDP	EDJ	06-2013	
G	CHANGED ELBOW RADIUS TO 36 INCHES								SHEET 34605 1 17
F	ADD NOTE: WIRE COILED BY CUSTOMER	BB	SPL				BLL	09-1998	1 OF 2 DWG. NO. PAGE

Table 1 Bill of Materials Provided and Installed by TID							
Item	Stock Number	Qty	Description	Material STD			
1	O-7330-XXX	3or4	Parallel Groove Clamp (size determined by wire)	2131			
2	U-6370-XXX	1	Cable Grip	2135			
3	U-6160-XXX	20'	Powermould (size determined by wire)	2170			
4	O-7189-002	16	Washerhead Lag Screws	2222			
5	0-7192-004	1	J Hook	2522			
6	U-5595-XXX	As Req'd	Underground Secondary Connector	2179			
7	U-5999-000	As Req'd	Rubber Boot for Connector (Included)	21/0			

Resource	Qty	Hours	
Line Supervisor	1		Line Supe
Lineman	1	2.0	Lineman
Line Truck	1	2.0	Line Truck
Personnel Lift	1		Personnel

Table 2Resource (1/0 to 4/0)Table 3Resource (500 Triplex or Quad)

Resource	Qty	Hours
Line Supervisor	1	
Lineman	1	25
Line Truck	1	2.5
Personnel Lift	1	

Table 4 Bill of Materials Provided and Installed by Customer

Item	Stock Number	Qty	Description	Material STD
1C	U-6048-XXX	3	Conduit Strap	
2C	U-6050-XXX	10'	Conduit PVC Sch 80	2170
3C	U-6085-XXX	1	PVC Sch 40 90 Degree Elbow	-
4C	0-7189-002	4	Washerhead Lag Screws	2322

(6C) Table 5 Conduit and Conductor Size

Service Entrance Size	Conduit	Service Conductor (Phase)	Neutral Conductor Size
100A 1Ø & 3Ø	(1)-3"	1/0 AL	1/0 AL
200A 1Ø & 3Ø	(1)-3"	4/0 AL	2/0 AL
400A 1Ø & 3Ø	(1)-4"	500 AL	350 AL
600A 1Ø & 3Ø	(1)-4"	500 AL	350 AL

INDIVIDUAL UNDERGROUND

CONSTRUCTION STANDARDS

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	TURLOCK IRR	CONSTRUCTION STANDARDS									
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE			
									INDIVIDUAL UNDERGROUND		
									SHEET 34610 - 19		
	Initial Issue	ADL					SSG	10-2023	1 OF 2 DWG. NO. PAGE		

Table	Table 1 Bill of Materials Provided and Installed by TID										
Item	Stock Number	Qty	Description	Material STD							
1	O-7330-XXX	3or4	Parallel Groove Clamp (size determined by wire)	2131							
2	U-6370-XXX	1	Cable Grip	2135							
3	U-6160-XXX	20'	Powermould (size determined by wire)	2170							
4	0-7189-002	16	Washerhead Lag Screws	2222							
5	O-7192-004	1	J Hook								
6	U-5595-XXX	As Req'd	Underground Secondary Connector	2170							
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Resource	Qty	Hours		
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Lineman	1	2.0		I
Line Truck	1	2.0	-	I
Personnel Lift	1			ł

Table 2Resource (1/0 to 4/0)Table 3Resource (500 Triplex or Quad)

Resource	Qty	Hours	
Line Supervisor	1		
Lineman	1	25	
Line Truck	1	2.5	
Personnel Lift	1		

Table 4 Bill of Materials Provided and Installed by Customer

Item	Stock Number	Qty	Description	Material STD
1C	U-6048-XXX	3	Conduit Strap	
2C	U-6050-XXX	10'	Conduit PVC Sch 80	2170
3C	U-6085-XXX	1	PVC Sch 40 90 Degree Elbow	
4C	0-7189-002	4	Washerhead Lag Screws	2322
5C	O-13XX-XXX	1	Service Box (size as required)	2022

(6C) Table 5 Conduit and Conductor Size

Service Entrance Size	Conduit	Service Conductor (Phase)	Neutral Conductor Size
100A 1Ø & 3Ø	(1)-3"	1/0 AL	1/0 AL
200A 1Ø & 3Ø	(1)-3"	4/0 AL	2/0 AL
400A 1Ø & 3Ø	(1)-4"	500 AL	350 AL
600A 1Ø & 3Ø	(1)-4"	500 AL	350 AL

CONSTRUCTION STANDARDS

INDIVIDUAL L	JNDERGROUND
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Table 1 Service Co	able 1 Service Conductor Size - Underground									
Service Entrance Size	Conductor Qu	antity and Size								
(Amp)	Single Phase	Three Phase								
30 (Maintenance Only)	(1) #6 per Phase (Note 1) (1) #6 Neutral	(1) #6 per Phase (1) #6 Neutral								
60-70 (Maintenance Only)	(1) 1/0 per Phase (1) #6 Neutral	(1) 1/0 per Phase (1) #6 Neutral								
100-125	1/0 Triplex (Note 4)	1/0 Quadplex (Note 4)								
200-225	4/0 Triplex (Notes 2, 4)	4/0 Quadplex (Note 4)								
400	(2) 4/0 per Phase (1) 4/0 Neutral	(2) 4/0 per Phase (1) 4/0 Neutral								
600	(2) 500 per Phase (1) 350 Neutral	(2) 500 per Phase (1) 350 Neutral								
800	(3) 500 per Phase (1) 500 Neutral	(3) 500 per Phase (1) 500 Neutral								
1,000		(3) 500 per Phase (1) 500 Neutral								
1,200		(3) 750 per Phase (1) 750 Neutral								
1,400		(4) 750 per Phase (1) 750 Neutral								
1,600		(4) 750 per Phase (2) 750 Neutral								
1,800		(4) 1000 per Phase (2) 1000 Neutral								
2,000		(5) 1000 per Phase (2) 1000 Neutral								
2,500		(5) 1000 per Phase (2) 1000 Neutral								
3,000		(6) 1000 per Phase (2) 1000 Neutral								

- 1. Use one phase conductor and one neutral conductor for 120-volt circuits.
- 2. Refer to Construction Standard 30510 for service size to limit residential fault current.
- 3. Where voltage drop, voltage flicker, or other practical reasons necessitate, Engineering may specify a service size other than as listed above.
- 4. Individual conductors of appropriate size may be substituted for Triplex or Quadplex in accordance with TID Material Standard 2202.
- 5. All conductors shall be aluminum and are to be in accordance with TID conductor specifications.
- 6. Conductor ampacities referenced from latest NEC version Table 310.16

	TURLOCK IRR	[G A		ON	D	[ST	RI	СТ	CONSTRUCTION STANDARDS			
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE				
М	REVISED CONDUCTORS AMP BASED ON TABLE 310.16	ADL					SSG	01-2024	SERVICE WIRE SIZE			
L	UPDATED 1800A CONDUCTOR	ADL					SSG	03-2023	UNDERGROUND			
К	UPDATED TITLEBLOCK AND TABLES	ELJ					MSG	09-2016				
J	REPLACE TITLE BLOCK, REMOVE 4,000 A	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	SHEET 34701 M 21			
Ι	REMOVE 1/0 FROM 200 AMP	SDC					BLL	06-2006	1 OF 2 DWG. NO. PAGE			





Figure 1 Compression Type Connector

Figure 2 Set Screw Type Connector

NOTES:

- 1. Aluminum tin plated
- 2. Terminal lug to carry full continuous current rating of conductor
- 3. NEMA bolt hole spacing is required on all connectors. Compression connectors must be long barrel type, similar to TID Stock Number U-6220-XXX.
- 4. On 3 phase, 400 amp and larger panel, terminal lugs shall be suitable compression type or 2 set screw type on conductor end. The lugs must have a minimum 2 bolt connection on the panel spades. See figures 1 and 2.
- 5. Before installation TID underground inspector must approve lugs and crimping die.

SERVICE WIRE SIZE UNDERGROUND

CONSTRUCTION STANDARDS

	SHEET		24701 M	2.2
n	05	ſ	54/UI M	
<u> </u>	OF	Ζ	DWG. NO.	PAGE



Table 1Bill of Materials

Item	Stock Number	Qty	Description	Material STD
1	O-13XX-XXX	1	Service Box (size as required)	2022
2	U-8200-004	As Req'd	¾" Pull Rope	2401

Table 2 Resources

Resource	Qty	Hours
Line Supervisor	1	
Lineman	1	1.0
Line Truck	1	

Table 3Clearances (Min. in Ft)

TID Equipment	Front	Sides	Back
Service Box	3	3	3

- A. The soil under the service box shall be compacted to no less than 95% relative compaction.
- B. Leave approximately 3 feet of pull rope extended past conduit.
- C. Leave approximately 4 feet of service conductor extended past conduit.
- D. Insert conduit 2 inches inside service box.
- E. All conduits are to be located against the same end of the service box.
- F. The box lid must be labeled "ELECTRIC".
- G. See Construction Standard 35201 for size and quantity of conduits required.

SERVICE BOX	CONSTRUCTION STANDARDS
INSTALLATION	SHEET 34805 I 24 2 OF 2 DWG, NO. PAGE



Typical Surface Mount

Typical Flush Mount

Notes:

- Service entrance equipment will conform to applicable sections of the Electric Utility Service Equipment 1. Requirements Committee (EUSERC) Standards.
- All PVC conduits must be adequately glued and set prior to installation of conductors. Only sweeping types 2. of bends are acceptable. Conduit that is deformed due to heating or over stressing during installation will not be acceptable.
- Meters will be furnished and set by TID after the installation has been approved by the governing inspection 3. agency.
- The service entrance panel shall be mounted so that the center of the meter will be at a height between a 4. minimum of 48 inches and a maximum of 75 inches above finished grade.
- 5. Grounding shall be in accordance with the National Electric Code (NEC) and local codes. TID may require that the grounding conductor be installed in EMT or cable armor to protect the conductor from mechanical damage. Use approved cast ground clamp.
- 6. Conduit size and schedule per TID Construction Standard 35201.

	TURLOCK IRR	[G/	TI	ON	D	IST	RI	СТ	C
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	N
F	CORRECTED METER HEIGHT	BB	RWC	RWB	LBG		RA	03-1994	
G	REDRAWN IN AUTOCAD	SDC	PJO	кјо	LBG		BLL	04-2003	
Н	CLARIFY GROUNDING REQUIREMENTS	SDC	кјо	DM	GKT		BLL	02-2006	
Ι	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	SI
J	UPDATED TITLEBLOCK	ELJ					MSG	09-2016	1

ONSTRUCTION STANDARDS

INIMUM REQUIREMENTS FOR ESIDENTIAL SERVICES USING NDERGROUND CONSTRUCTION

	SHEET		2/010 1	25
1	OF	1	JHOID J	2.5
-	0.	-	DWG. NO.	PAGE





- 1. Service entrance equipment will conform to applicable sections of the Electric Utility Service Equipment Requirements Committee (EUSERC) Standards.
- Customer shall supply panel with bus bar lugs where one set of lugs feeds all meters. Lug size and quantity will be specified by the District.
- 3. Meters will be furnished and set by TID after the installation has been approved by the governing inspection agency.
- 4. No service will be run under existing or future concrete areas.
- 5. All PVC conduits must be adequately glued and set prior to installation of conductors. Only sweeping type bends are acceptable.
- 6. See Construction Standard 30571 for trench configurations.

	TURLOCK IRR	[GA	TI	ON	D	IST	RI	СТ	CONSTRUCTION STANDARDS
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	MINIMUM REQUIREMENTS FOR
В	CHANGED NOTES	SP	RWB	RCM	RA		AKH	10-1989	SINGLE MOBILE HOME METERING
С	COMBINED WITH CUSTOMER BOOK	BB	ETE	RWB	LBG		RA	06-1993	USING UNDERGROUND
D	REDRAWN IN AUTOCAD	SDC	PJO	KJO			BLL	04-2003	CONSTRUCTION
Е	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	SHEET 34820 F 27
F	UPDATE TITLEBLOCK	ELJ					MSG	09-2016	1 OF 1 DWG. NO. PAGE



- 1. Service entrance equipment will conform to applicable sections of the Electric Utility Service Equipment Requirements Committee (EUSERC) Standards.
- 2. Customer shall supply panel and bus bar lugs where one set of lugs feeds all meters. Lug size and quantity will be specified by the District.
- 3. Meters will be furnished and set by TID after the installation has been approved by the governing inspection agency.
- 4. No service will be run under existing or future concrete areas.
- 5. All PVC conduits must be adequately glued and set prior to installation of conductors. Only sweeping type bends are acceptable.
- 6. See Construction Standard 30571 for trench configurations.

	TURLOCK IRR	IG A		ON	D	IST	RI	СТ	CONSTRUCTION STANDARDS			
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	MINIMUM REQUIREMENTS FOR			
В	CHANGED NOTES	SP	RWB	RCM	RA		AKH	10-1989	MULTIPLE MOBILE HOME METERING			
С	COMBINED WITH CUSTOMER BOOK	BB	ETE	RWB	LBG		RA	06-1993	USING UNDERGROUND			
D	REDRAWN IN AUTOCAD	SDC	PJO	KJO			BLL	04-2003	CONSTRUCTION			
Е	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	SHEET 34830 F 28			
F	UPDATE TITLEBLOCK	ELJ					MSG	09-2016	1 OF 1 DWG. NO. PAGE			



Figure 1 Multiple Metering Using Underground Construction

- 1. Service entrance equipment will conform to applicable sections of the Electric Utility Service Equipment Requirements Committee (EUSERC) Standards.
- 2. Customer shall supply panel with bus bar lugs where one set of lugs feeds all meters. Lug size and quantity will be specified by the District.
- 3. Meters will be furnished and set by TID after the installation has been approved by the governing inspection agency.
- 4. No service will be run under existing or future concrete areas.
- 5. All PVC conduits must be adequately glued and set prior to installation of conductors. Only sweeping type bends are acceptable.
- 6. Minimum meter height may be reduced to 36" when utilizing enclosed switchboards.
- 7. See Construction Standard 30571 for trench configurations.

	TURLOCK IRR	CONSTRUCTION STANDARDS									
REV	DESCRIPTION	INIT	MINIMUM REQUIREMENTS FOR								
В	DIMENSION CHANGE	SP	RWB	RCM	RA		AKH	10-1989	MULTIPLE METERING		
С	COMBINED WITH CUSTOMER BOOK	BB	ETE	RWB	LBG		RA	06-1993	USING UNDERGROUND		
D	REDRAWN IN AUTOCAD								CONSTRUCTION		
Е	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	SHEET 34840 F 29		
F	UPDATE TITLEBLOCK	ELJ					MSG	09/28/2016	1 OF 1 DWG. NO. PAGE		

General Information:

Electrical plastic conduit constructed of polyvinyl chloride (PVC) will be used in all underground developments. PVC schedule 40 conduit will be used for all subsurface straight runs and all subsurface elbows. PVC schedule 80 conduit will be used for all above ground runs. The following tables describe general sizes and uses for PVC conduits. These sizes shall be used unless otherwise specified by the District.

General Practice:

After conduits are installed, an appropriately sized mandrel will be pulled through them, and the pull rope installed. Immediately after pulling the mandrel and pull rope, the conduits will be plugged. The mandrel and plugging procedure must be done in the presence of the TID Inspector.

Size of Primary Cable	Conduit Quantity and Size						
Size of Frindry Cable	Single Phase	Three Phase					
#2 AL or 1/0 AL	(1) 4"	(1) 4"					
4/0 AL	(1) 5"	(1) 5"					
600 Compact AL (See Note 1)		(1) 6", (1) 2"					
1100 Compact AL (See Note 1)		(1) 6", (1) 2"					

Table 1 Primary Circuit Conduits

Table 2 Secondary Circuit Conduits (Residential type construction)

Size of Secondary Conductor	Conduit Quantity and Size
4/0 Triplex (Maintenance Only)	(1) 3"
500 Triplex	(1) 4"

Table 3 Service Conduits (Residential type construction)

Service Entrance Size (Amp)	Conduit Quantity and Size
100 or 200	3"
400	4"
600	(1) 5" (See Note 2)
800	(1) 5" (See Note 2)

		[GA	\TI	ON	D	IST	RI	СТ	(CON	IST	RUCTION STANDARDS
				<u> </u>								
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE				
0	UPDATED CONDUIT SIZES	ADL	DNP				SSG	03-2023				UNDERGROUND
Ν	ADDED TABLE 5	SSG		LM	DNP	JA	MSG	05-2022			CO	NDUIT APPLICATION
М	REMOVED PVC DB 120 CONDUIT	SSG	AJB	DH	DNP	MC	MSG	03-2021				
L	UPDATE TITLEBLOCK, TABLE 4 - 600 AMP, NOTES	ELJ					MSG	09-2016		SHEET		35201 O 30
К	REPLACE TITLE BLOCK	JRS	MSG				EDJ	06-2013	1	OF	2	DWG. NO. PAGE

Service Entrance Size	Conduit Quantity and Size					
(Amp)	Single Phase	Three Phase				
100	(1) 3"	(1) 3"				
200	(1) 3"	(1) 3"				
320	(1) 4"	(1) 4"				
400	(2) 4"	(3) 4" (3) 4"				
600	(2) 4"					
800	(2) 5"	(3) 5"				
1000		(3) 5"				
1200		(3) 5"				
1400		(3) 5"				
1600		(4) 5"				
1800		(4) 5"				
2000		(6) 5"				
2500		(6) 5"				
3000		(6) 5"				

Table 4Secondary/Service Conduits
(Commercial type construction)

Table 5Conduit Sweep Radius

Conduit Size	Orientation	Angle	*Sweep Radius		
2"		90°	36"		
3"		90°	36"		
4"	Vertical	90°	48"		
5"		90°	60"		
6"		90°	60"		
2"		Any	48"		
3"		Any	48"		
4"	Horizontal	Any	60"		
5"		Any	60"		
6"		Any	60"		

Notes:

- 1. There should not be more a than total of 270° [3 (90°) or combinations of 90° and 45°] bends in the conduits.
- 2. 2023 NEC Table C.11 referenced for conduit fill.
- 3. *Sweep radius subject to change depending on trench depth and equipment

UNDERGROUND CONDUIT APPLICATION

CONSTRUCTION STANDARDS

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Ζ	OF	Ζ	DWG. NO.	PAGE



CRITERIA FOR ELECTRICAL ROOMS

- 1. Electrical rooms shall only be allowed for commercial/ industrial meters.
- 2. The distance of the main meter from the transformer or CT compartment shall be as the following:
 - (a) If service with a transformer \geq 500 KVA Maximum 75 unobstructed linear feet from the transformer.
 - (b) If service with a transformer < 500 KVA Maximum 75 unobstructed linear feet from the CT compartment . Doors or other means of entrance are acceptable.
- 3. The electrical room must be keyed such that the key made available to TID opens only the electrical room itself.
- 4. The key must be made available to TID via a lock-box, and must be keyed to TID specifications so that only TID may open the lock box. Sharing of the lock-box is NOT allowed.
- 5. The lock-box shall be located as close to the electrical room as possible in an unrestricted access area, but in no case farther than 10 feet from the meter room door. The lock-box must be between 36 inches and 72 inches above the adjacent walking surface.
- 6. The lock-box must be surface or recessed mount. Door bracket hanging is not permitted.
- 7. To ensure compatibility within the District, the lock-box used must be from the KNOX Company. The KNOX-BOX 1662 series or the 3200 series are the only approved lock-boxes.
- 8. The electrical room must meet all building, fire, safety codes and all applicable code requirements. The electrical room must be safe for TID personnel and free from any harmful or unsafe substances or vapors. The electrical room must be properly ventilated.
- 9. The electrical room must not be used in any way for storage. TID will not be responsible for missing or damaged goods stored in the electrical room. A well-readable sign stating "No Storage Allowed in this electrical Room" must be posted prominently inside the room or on the outside of the electrical room door.
- 10. The electrical room must provide a minimum clear, safe, level working space extending 3 feet horizontally in front of the meter panel, and to a ceiling height of a least seven feet one inch.
- 11. The electrical meter room must be immediately adjacent to and accessible from the outside of the building. Access to the meter room via successive doors and/or rooms is not allowable.
- 12. The electrical room must have a single entry from the outside. Entry to any other areas of the building via the meter room is not allowed.
- 13. The electrical room design and location is to be approved by TID staff.
- 14. The electrical room must provide an overhead light for adequate illumination of meters and safe entry and work within the room. A 120-volt convenience outlet shall be provided in accordance with the NEC and all applicable codes for use by persons who may need supplemental lighting or other meter work related power.

	TURLOCK IRR	CONSTRUCTION STANDARDS											
REV	DESCRIPTION		СНК	RV'D	RV.D	RV'D	APP	DATE					
									CRITERIA FOR				
С	REVISED NOTE 1 AND ADDED NOTE 2, 3	SSG		MC	AJB		MSG	04-2021	ELECTRICAL ROOMS				
В	UPDATE TITLEBLOCK	ELJ					MSG	01-2017					
А	ADD LOCK-BOX HEIGHT REQUIREMENT	GKT	кјо	KG	JC		BLL	06-2000	SHEET 50510 C 33				
	INITIAL ISSUE	GKT	КЈО	KG	JC		BLL	05-2000	1 OF 1 DWG. NO. PAGE				

Type of Service	Main Size Amps	Meter Socket	Drawing Number	Type of Service	Main Size Amps	Meter Socket	Drawing Number
2 Wire 1 Phase 120 Volt	30 A	100A 4 Jaw MCC CDR	51010	4 Wire 3 Phase ¹²⁰ ⁄ ₂₄₀ Volt	100 A Limit to 30 HP for Pumping Loads	100 A 7 Jaw MCC CDR	51050
3 Wire 1 Phase ¹²⁰ ⁄ ₂₄₀ Volt	100 A	100A 4 Jaw MCC CDR	51015	4 Wire 3 Phase ¹²⁰ ⁄ ₂₄₀ Volt	200 A Limit to 60 HP for Pumping Loads	200 A 7 Jaw MCC CDR	51050
3 Wire 1 Phase ¹²⁰ ⁄ ₂₄₀ Volt	200 A	200A 4 Jaw MCC CDR	51015	4 Wire 3 Phase ¹²⁰ ⁄ ₂₄₀ Volt	400 A 600 A 800 A	CMCTC 13 Jaw TP	51070
3 Wire 1 Phase ¹²⁰ ⁄ ₂₄₀ Volt	400 A	320A 4 Jaw MCC CDR	51025	3 Wire 3 Phase 480 Volt	100 A Limit to 60 HP for Pumping Loads	100 A 5 Jaw MCC CDR	51020 Maintenance Only
3 Wire 1 Phase ¹²⁰ ⁄ ₂₄₀ Volt	400 A	Self Contained Meter Receptacle	51030 Maintenance Only	3 Wire 3 Phase 480 Volt	200 A Limit to 125 HP for Pumping Loads	200 A 5 Jaw MCC CDR	51020 Maintenance Only
3 Wire 1 Phase ¹²⁰ ⁄ ₂₄₀ Volt	400 A 600 A 800 A	CMCTC 6 Jaw TP	51040	3 Wire 3 Phase 480 Volt	400 A 600 A 800 A	CMCTC 8 Jaw TP	51060 Maintenance Only

Table 1Single Phase Service From SinglePhase or Delta SecondaryTransformers

Table 2Three Phase Service From Delta
Secondary Transformers

	TURLOCK IRR	IGA	TI	ON	[D]	IST	RI	CT	CONSTRUCTION STANDARDS
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	LOW & HIGH VOLTAGE ELECTRIC
н	CORRECT NO OF METER JAWS IN TABLE 3	SSG		RB	AS	AB	MSG	04-2021	SERVICE METER SOCKET
G	CORRECT DWG NUMBERS, CHG NOTE 8	ELJ					MSG	09-2016	REQUIREMENTS
F	REPLACE TITLEBLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013	
Е	ALLOW 320 AND 40 AMP ON COMMERCIAL	BB	RC				BLL	09-1998	SHEET 50600 H 34
D	REDRAWN FOR BOUND BOOK	BB	ETE	RWB	LBG		RA	06-1993	1 OF 3 DWG. NO. PAGE
Table 3Single Phase Service From WyeSecondary Transformers

Type of Service	Main Size Amps	Meter Socket	Drawing Number
2 Wire 1 Phase 120 Volt	30 A	100 A 4 Jaw MCC CDR	51020
3 Wire 1 Phase ¹² 208 Volt	200 A	200 A 5 Jaw MCC CDR	51020

Table 4Three Phase Service From WyeSecondary Transformers

Type of Service	Main Size Amps	Meter Socket	Drawing Number
4 Wire 3 Phase ¹²⁹ ⁄ ₂₀₈ Volt	100 A Limit to 30 HP for Pumping Loads	100 A 7 Jaw MCC CDR	51055
4 Wire 3 Phase ¹² 2⁄ ₂₀₈ Volt	200 A Limit to 60 HP for Pumping Loads	200 A 7 Jaw MCC CDR	51055
4 Wire 3 Phase ¹² 2⁄ ₂₀₈ Volt	400 A to 2000 A	CMCTC 13 Jaw TP	51074
4 Wire 3 Phase ²⁷⁷ ⁄4 ₈₀ Volt	100 A Limit to 60 HP for Pumping Loads	100 A 7 Jaw MCC CDR	51055
4 Wire 3 Phase ²⁷⁷ ⁄4 ₈₀ Volt	200 A Limit to 125 HP for Pumping Loads	200 A 7 Jaw MCC CDR	51055
4 Wire 3 Phase ²⁷⁷ ⁄ ₄₈₀ Volt	400 A to 3000 A	CMCTC 13 Jaw TP	51074
3 Wire 3 Phase 12 kV	Varies	CMVTCTC 8 Jaw TP	51081 Maintenance Only
4 Wire 3 Phase 12 kV	Varies	CMCTC 13 Jaw TP	51081

Abbreviations:

- CMVTCTC Combination Meter and Voltage Transformer and Current Transformer Cabinet.
- TP Test Perch (Provisions for mounting meter test blocks in cabinet).
- CDR Continuous Duty Rated per UL 414 (CDR not required for domestic service).
- MCC Manual Circuit Closing Device.
- CMCTC Combination Meter and Current Transformer Cabinet.

LOW & HIGH VOLTAGE ELECTRIC SERVICE METER SOCKET REQUIREMENTS

CONSTRUCTION STANDARDS

	SHEET		E0600 H	25
2	05	J	ЭОООО П	55
Ζ	OF	3	DWG. NO.	PAGE

Notes:

1. Manual Circuit closing devices will be required on all service entrance equipment exceeding 30 amps nameplate rating except:

Domestic Signboards Temporary services

- 2. Meter socket and CT cabinets and mounting shall conform to applicable sections of the Electric Utility Service Equipment Requirements Committee (EUSERC) Standards. Consult TID Meter Shop if you have any questions.
- 3. Meter Sockets shall be located on the outside of buildings, where meters will be readily accessible for reading, unless prior arrangements are made with Standards and Line Engineering Dept.
- 4. For remote meter installations, the customer shall provide an approved CT mounting cabinet, a 1 ¹/₄ inch rigid steel conduit without junction boxes between the CT cabinet and meter socket and shall locate the meter socket not more than 50 circuit feet from the CT cabinet. T.I.D. will install the Current Transformers and wiring.
- 5. Service entrance equipment for commercial operation must be continuously rated for the load specified.
- 6. All electrical work on a customer's premise must be passed by the proper inspecting authorities before any hookup can be made by T.I.D.
- 7. Building plans and definite load information for commercial and industrial installations must be furnished to T.I.D.'s Standards and Line Engineering Department, P.O. Box 949, Turlock, CA 95381, as soon as possible.
- 8. "K-Base" meter panels and ringless meter sockets are not allowed or accepted.

LOW & HIGH VOLTAGE ELECTRIC SERVICE METER SOCKET REQUIREMENTS

CONSTRUCTION STANDARDS

	SHEET		50600 H	36
S	05	2	50000 П	30
3	UF	3	DWG. NO.	PAGE



Notes:

- Installation shall meet all applicable safety and performance standards established by the current National Electric Code (NEC), the Institute of Electrical and Electronic Engineers (IEEE), and accredited testing laboratories such as Underwriters Laboratories (UL), and where applicable, rules of the Public Utilities Commission (PUC) regarding safety and reliability, as well as meeting all TID requirements.
- 2. TID will ensure that the metering at the point of interconnection will accurately measure electricity flow in both directions. If service panel replacement is necessary, the applicant shall be responsible for such cost.
- 3. Arrangements utilizing transfer switches, or alternatives to the arrangement shown above, will be considered upon submission of a diagram and explanation of the proposed deviation(s).
- 4. Main service panels rated 400 Amps and above will require CT cabinet, an AC disconnect switch, and need to contact TID Engineering for other requirements.
- 5. The battery storage should be UL 1741 and IEEE 1547 certified.
- TID allows parallel battery operation however TID does not allow exporting power back on the grid from battery storage during a power outage.
- 7. Battery storage can only be connected through smart inverters.

Refer to TID solar installation guidelines for additional requirements.

TURLOCK IRRIGATION DISTRICT

REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE
Н	ADDED BREAKER TO AC DISCONNECT	ADL	ADD	MAC			GSS	11 - 2022
G	REMOVED AC DIS. SW. & PV GEN. METER AN OPTION	SSG		BAP	MAC	МН	EDJ	05-2020
F	ADD NOTE 6 & 7 FOR BATTERY BACKUP	SSG		BAP	MAC	EKR	EDJ	12-2017
D	REPLACE TITLE BLOCK	EIJ					MSG	09-2016
Е	REPLACE TITLE BLOCK	JRS	MSG	JSA	MLH	SDP	EDJ	06-2013

CONSTRUCTION STANDARDS

SELF GENERATION LOAD SIDE CONNECTION WIRING & METER INSTALLATION

SHEET

1 OF

2







Figure 1, Simplified Block Diagram of Line Side Connection Installation

Notes:

D

С

В

А

ADDED FUSE AND BREAKER IN AC DISCONNECT

MADE PV GEN, METER REQ, AS AN OPTION

REPLACE TITLE BLOCK

REPLACE TITLE BLOCK

INITIAL ISSUE

- 1. Installation shall meet all applicable safety and performance standards established by the National Electric Code, the Institute of Electrical and Electronics Engineers, and accredited testing laboratories such as Underwriters Laboratories, and where applicable, rules of the Public Utilities Commission regarding safety and reliability, as well as meet all TID requirements.
- 2. TID will ensure that the metering at the point of interconnection will accurately measure electricity flow in both directions. If service panel replacement is necessary, the applicant shall be responsible for such cost.
- 3. Arrangements utilizing transfer switches or alternatives to the arrangement shown above will be considered upon submission of a diagram and explanation of the proposed deviation(s).
- 4. Main service panels rated 400 Amps and above will require CT cabinet, an AC disconnect switch, and need to contact TID Engineering for other requirements.
- 5. Line side connection must be downstream of TID metering and not located within sealed TID compartment.
- 6. Line side connection shall not void UL listing on customer main service panel.
- 7. Customer must receive local jurisdiction approval for a line side connection.
- 8. The battery backup panel should be UL 1741 and IEEE 1547 certified.
- 9. TID allows parallel battery operation however TID does not allow exporting power back on the grid from battery storage during a power outage.

GSS

EDJ

MSG

ED]

FD1

11-2022

05-2020

09-2016

06-2013

01-2013

1

10. The battery storage can only be connected through smart inverters. **Refer to TID solar installation guidelines for additional requirements**

TURLOCK IRRIGATION DISTRICT REV DESCRIPTION INIT CHK RV'D RV'D APP DATE

ADL

SSG

ЕIJ

JRS

MSG

ADD

MSG

JRS

MAC

BAP

JSA

ΜΗ

MAC

SDP

SDP

EKR

MLH

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CONSTRUCTION STANDARDS

SELF GENERATION LINE SIDE CONNECTION WIRING & METER INSTALLATION

39

PAGE

D

SHEET		E1002
OF	2	JLUJJ DWG. NO.



Section 4

Material Standards Drawings	Page
2022 – Specification, Service Box	40
2170 – Specification, Plastic Conduit & Accessories	44
2202 – Contractor Developer Conductor Information	52



TW=TOP WIDTH TL=TOP LENGTH BW=BOTTOM WIDTH BL=BOTTOM LENGTH

Table 1 Nominal Dimensions

	Stack Number Size Trade Size		Trada Ciza	Minimum Interior Dimensions (Inches)						
	Stock Number Size I rade Size			Len	gth	Width	Depth			
	11 1246 009	Small	1.2"v24"	Тор	21	12	16			
	0-1340-008 Small	15 X24	Bottom	29	20	10				
	11 1266 002		17"v20"	Тор	28	15	16			
	0-1300-002 Large	17 X30	Bottom	37	24	10				
	U-1376-001 X-Large	24"226"	Тор	33	21	16				
		∧-∟drye	24 X30	Bottom	41	30	10			

Notes:

- 1. Assembly to consist of box with cover.
- 2. Meets WUC Guide 3.6 (latest revision) unless otherwise specified.
- 3. Boxes and lids to meet loading requirements of Designation A-16 of ASTM C 857 (latest revision), including the "live load increase".
- 4. Cover shall be marked "ELECTRIC".
- 5. Cover provided with lifting provisions.
- 6. Cover shall be gray in color.
- 7. Cover shall be lockable using (2) penta head bolts.
- 8. Penta head bolts shall be 1/2-6 coil x 2.50".
- 9. Non-corrosive materials to be used on locking device.
- 10. Materials shall be ultra-violet radiation resistant.
- 11. Box shall be constructed of polymer based material or have a polymer ring to assist in controlling sidewall and backfill deflections.
- 12. Box shall have adequate soil bearing surfaces to prevent settling in firm soils at the specified loading.
- 13. Box to be without bottom.
- 14. Use X-Large box for 8 position secondary connectors
- 15. X-Large box 3" lid. Small and large box 2"

	TURLOCK IRR	[GA		ON	D	IST	'RI	СТ	MATERIAL STANDARDS
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	
J	ADDED TRADE SIZE COLUMN	ADL					SSG	02-2025	SPECIFICATION
К	ADDED INTERIOR DIMENSIONS	ADL					SSG	03-2023	SERVICE BOX
J	ADDED SIZE COLUMN FOR SERVICE BOXES	ADL					SSG	11-22	
Ι	TRAFFIC RATED SECONDARY BOX	MSG		EJ	PAM		MSG	07-15	SHEET 2022] 42
Н	REPLACE TITLE BLOCK	JRS	JSA	SDP	MLH	MSG	EDJ	06-13	1 OF 4 DWG. NO. PAGE

Stock Number	Box Size (in.)
U-1347-001	13 x 24
U-1367-001	17 x 30
U-1377-001	24 x 36

Table 2 Replacement WUC Cover

Replacement Cover per WUC Guide 3.6 (latest revision)

Table 3 Extension

Stock Number	Size (in.)
U-1368-008	17 x 30 x 8
U-1378-008	24 x 36 x 8

8" Extension Ring to Raise Box For Placement Below Box

Table 4 Grade Ring

Stock Number	Size (in.)
U-1348-002	13 x 24 x 2
U-1368-002	17 x 30 x 2
U-1378-002	24 x 36 x 2

2" - 3" Grade Ring

WUC Guide 3.6 (latest revision) Cover Compatible

SPECIFICATION SERVICE BOX





Figure 2 Concrete Box for Full Traffic

Table 5 Traffic Rated Box Dimension

Stock Number	Size (in.)
U-1366-003	17 x 30 x 20

Notes - Concrete Boxes for Full Traffic:

- 1. Reinforced Concrete boxes for full traffic (H/20) must meet the requirements of the latest ASTM C-857.
- 2. Cover shall be lockable using non-corrosive penta head bolts (1/2-6 coil x2.50").
- 3. Concrete parts shall be interchangeable.
- 4. Covers shall have a high coefficient of friction (0.65 or better), slip resistant surface.
- 5. Box covers must have TID identification. The box body, cover, and extension must be labeled with the manufacturer's name and have the TID Stock Number on the inside surface.
- 6. All concrete parts shall be permanently identified as to the manufacturer on the inside surface.
- 7. All concrete parts shall be provided with four $\frac{7}{8}$ inch diameter, $1-\frac{3}{4}$ inch minimum deep inserts with UNC Class 2A threads.

SPECIFICATION SERVICE BOX	MATERIAL STANDARDS					
SERVICE DOX	SHEET 2022 1 44					
	3 OF 4 DWG. NO. PAGE					



Figure 3 Concrete Box for Full Traffic

	SHEET		2022 1	15
4	OF	4		
		-	DWG. NO.	PAGE



Notes:

- 1. Meets NEMA TC-2
- 2. Meets UL-651

U-6060-005

3. 10' length with belled end or coupling attached

5" Schedule 40





Figure 3 Swedge Coupling

Table 2PVC Coupling

Stock Number	Description
U-6090-000	½" Coupling
U-6090-001	1" Coupling
U-6090-002	2" Coupling
U-6090-003	3" Coupling
U-6090-004	4" Coupling
U-6090-005	5" Coupling
U-6090-006	6" Coupling
U-6092-002	2" Coupling - Long Line
U-6092-003	3" Coupling - Long Line
U-6092-004	4" Coupling - Long Line
U-6093-002	2" Coupling - Swedge
U-6093-003	3" Coupling - Swedge
U-6093-004	4" Coupling - Swedge
U-6093-004	5" Coupling - Swedge
U-6093-006	6" Coupling - Swedge

Notes:

- 1. For use with schedules 40 or 80
- 2. Meets all specifications for schedules 40 and 80 conduit

TID: TURLOCK IRRIGATION DISTRICT						MATERIAL STANDARDS			
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	=
W	ADDED SWEDGE COUPLERS	ADL					SSG	12-2024	A SPECIFICATION
v	REMOVED DISCONTINUED PARTS	ADL					SSG	11-2022	PLASTIC CONDUIT & ACCESSORIES
U	ADDED 60" RADIUS ELBOW	SSG		AB	DH	EDJ	EDJ	12-2018	3
т	ADDED CONDUIT CARRIER STOCK NUMBER	SSG				EDJ	EDJ	04-2018	3 SHEET 2170 W 46
S	UPDATED TITLEBLOCK, STANDARD	ELJ					MSG	09-2016	5 1 OF 7 DWG. NO. PAGE



Table 3 PV	C Elbow, Schedule 40
Stock Number	Description
U-6065-003	3" 30° elbow, 36" radius, schedule 40
U-6065-004	4" 30° elbow, 36" radius, schedule 40
U-6065-005	5" 30° elbow, 36" radius, schedule 40
U-6075-002	2" 45° elbow, 18" radius, schedule 40
U-6075-003	3" 45° elbow, 36" radius, schedule 40
U-6075-004	4" 45° elbow, 36" radius, schedule 40
U-6075-005	5" 45° elbow, 36" radius, schedule 40
U-6085-001	1" 90° elbow, 5 ³ / ₄ " radius, schedule 40
U-6085-002	2" 90° elbow, 36" radius, schedule 40
U-6085-003	3" 90° elbow, 36" radius, schedule 40
U-6085-004	4" 90° elbow, 36" radius, schedule 40
U-6085-005	5" 90° elbow, 36" radius, schedule 40
U-6085-007	2" 90° elbow, 24" radius, schedule 40
U-6085-008	4" 90° elbow, 60" radius, schedule 40
U-6085-009	5" 90° elbow, 60" radius, schedule 40
U-6085-010	6" 90° elbow, 60" radius, schedule 40

Table 4 PV	C Elbow, Schedule 80
Stock Number	Description
U-6063-003	3" 30° elbow, 36" radius, schedule 80
U-6063-004	4" 30° elbow, 36" radius, schedule 80
U-6063-005	5" 30° elbow, 36" radius, schedule 80
U-6070-002	2" 45° elbow, 18" radius, schedule 80
U-6070-003	3" 45° elbow, 36" radius, schedule 80
U-6070-004	4" 45° elbow, 36" radius, schedule 80
U-6070-005	5" 45° elbow, 36" radius, schedule 80
U-6080-001	1" 90° elbow, $5\frac{3}{4}$ " radius, schedule 80
U-6080-002	2" 90° elbow, 36" radius, schedule 80
U-6080-003	3" 90° elbow, 36" radius, schedule 80
U-6080-004	4" 90° elbow, 36" radius, schedule 80
U-6080-005	5" 90° elbow, 36" radius, schedule 80
U-6080-007	2" 90° elbow, 24" radius, schedule 80

Notes:

- 1. For use with schedules 40 or 80 conduit.
- 2. Meets all specifications for schedules 40 and 80 conduit.

SPECIFICATION PLASTIC CONDUIT & ACCESSORIES

2170

DWG. NO.

SHEET

2 OF 7

47 PAGE

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PVC Conduit, Flexible Table 6

Stock Number	Diameter (in.)
U-6150-000	½ ∗
U-6150-001	1 *
U-6150-002	2
U-6150-003	3
U-6150-004	4

* Maintains shape after bending.

Notes:

, flexible, corrugated.

\bigcirc

Figure 6 **PVC Powermould, Schedule 40**

Table 9 PVC Powermould

Stock Number	Diameter (in.)
U-6160-002	2
U-6160-003	3
U-6160-004	4
U-6160-005	5

Notes:

- 1. Schedule 40.
- 2. 10' length with belled end.
- Per NEMA PH41, TC-19. 3.



Figure 7 **PVC Conduit to Powermould Adapter**

Table 10 PVC Conduit to Powermould Adapter

Stock Number	Adapter Size (in.)
U-6170-002	4" conduit to 2" Powermould
U-6170-004	6" conduit to 4" Powermould

Notes:

1. Per NEMA PH41, TC-19.

3

OF 7

DWG. NO

SPECIFICATION PLASTIC CONDUIT & ACCESSORIES

MAT	MATERIAL STANDARDS			
SHEET	2170	14/	10	
			40	

PAGE



Table 7PVC Repair Duct

Stock Number	Diameter (in.)
U-6061-002	2
U-6061-003	3
U-6061-004	4
U-6061-005	5

Notes:

- 1. Schedule 40.
- 2. 10' section.
- 3. Interlock design.
- 4. Ultraviolet resistant.
- 5. For repair of schedule 40, schedule 80, and DB 120 conduit.



Table 8 PVC Repair Coupling

Stock Number	Diameter (in.)
U-6095-002	2
U-6095-003	3
U-6095-004	4
U-6095-005	5
U-6095-006	6

Notes:

- 1. For use with repair duct.
- 2. Interlock design.

Figure 9 PVC Repair Coupling

SPECIFICATION PLASTIC CONDUIT & ACCESSORIES

SHEET			2170	۱۸/	
4	OF	7		VV	49 PAGE



Figure 10 Conduit Strap

Table 11 Conduit Strap

Stock Number	Diameter (in.)		
U-6048-001	1		
U-6048-002	2		
U-6048-003	3		
U-6048-004	4		
U-6048-005	5		
U-6048-006	6		

Notes:

- 1. Hot dip galvanized.
- 2. 2 hole mounting.
- 3. Mounting tabs bend 90° on 1", 2", and 3" straps.
- 4. Mounting tabs bend 30° on 4" and 5" straps.



Figure 11 Terminal Adapter

Table 13 Terminal Adapter

Stock Number	Diameter (in.)
U-6180-001	1
U-6180-002	2
U-6180-003	3
U-6180-004	4

Notes:

- 1. For use with schedules 40 or 80 conduit.
- 2. Meets all specifications of schedules 40 and 80 conduit.

SPECIFICATION PLASTIC CONDUIT & ACCESSORIES

	SHEET		2170 \/	ГО
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5	OF	/	DWG. NO.	PAGE



Figure 12 Female Adapter

Table 14Female Adapter

Stock Number	Diameter (in.)
U-6185-001	1
U-6185-002	2
U-6185-003	3
U-6185-004	4

Notes:

- 1. For use with schedules 40 or 80 conduit.
- 2. Meets all specifications of schedules 40 and 80 conduit.



Figure 13 Access Fitting, Type T



Figure 14 Service Entrance Cap

Table 15 Access Fitting, Type T

Stock Number	Diameter (in.)	
U-6190-001	1	

Notes:

- 1. For use with schedules 40 or 80 conduit.
- 2. Meets all specifications of schedules 40 and 80 conduit.

Table 16 Service Entrance Cap

Stock Number	Diameter (in.)	
U-6200-001	1	

Notes:

- 1. For use with schedules 40 or 80 conduit.
- 2. Meets all specifications of schedules 40 and 80 conduit.

SPECIFICATION PLASTIC CONDUIT & ACCESSORIES

SHEET			2170 W	F 1
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6	OF	/	DWG. NO.	PAGE



Figure 15 **PVC Solvent Cement**



Figure 16 Backing Plate

Table 17 PVC Solvent Cement

Stock Number	Size (Qt.)
U-6140-002	1

Notes:

1. For use with schedules 40 or 80 PVC conduit.

Table 18 Backing Plate

Stock Number	Size (in.)
U-6165-003	3
U-6165-005	5

Notes:

1. 10' length.

Table 19 Conduit Carrier



Figure 17 **Conduit Carrier**

Stock Number	Size (in.)
U-7325-001	3 /4 " - 1 - 1 / 4"
U-7325-003	3" - 4"
U-7325-004	4" - 6"
U-7325-008	1-1/2" - 2 - 1/2"

Notes:

- Heavy-gauge Waterproof woven nylon. 1.
- Each inflatable line carrier adjusts to fit 2. conduit.

SPECIFICATION **PLASTIC CONDUIT & ACCESSORIES**

MATERIAL STANDARDS						
	SHEET		2170	۱۸/	E O	
7	OF	7		••		

Conductor installed in the District must meet certain requirements. Included in the requirements are the conductor size, type, stranding and insulation. Material not in compliance will be rejected by the District inspectors. Initially, a few select conductors were accepted by the District. In an effort to have underground cable more readily available for contractor through local suppliers, changes have been made to enlarge the list of acceptable cable. Turlock Irrigation District still requires XLP insulation, 1350 aluminum alloy with standard stranding and insulation thickness. The best way to insure compliance is to specify the code name.

An additional change is the acceptance of paralleling the conductor by the contractor. Paralleling is installing three single conductors simultaneously without benefit of the conductors being intertwined; however, the neutral wire must be permanently marked. Color tape (preferably white) or wire ties with labeling is acceptable provided it is determined to be permanent for the neutral.

The following list of conductors with size, stranding, insulation and code names are acceptable for installation at the District



Figure 1 Single Conductor

Size	Stranding	SIW Min Standing	Insulation	Code Name			
1/0	19	7	80 mils	Harvard			
2/0	19	11	80 mils	Yale			
4/0	19	17	80 mils	Beloit			
350	37	24	95 mils	Rutgers			
500	37	30	95 mils	Emory			
750	61	53	110 mils	Sewanee			
1000	61	53	110 mils	Fordham			

Table 1Single Conductor XLP EC Grade per
NEMA WC-7 1350 Aluminum

Notes:

1. Compacted cable and building wire known as S8000 is NOT acceptable.

		IG A	TI	ON	D]	IST	RI	СТ	MATERIAL STANDARDS
REV	DESCRIPTION	INIT	СНК	RV'D	RV'D	RV'D	APP	DATE	
Е	ADDED 4/0 QUAD	NJT	ADL					06-24	CONTRACTOR DEVELOPER
D	ADDED SIW	MSG					EDJ	02-14	CONDUCTOR INFORMATION
С	UPDATED STANDARD	JRS	JSA	SDP	MLH	MSG	EDJ	06-13	
В	CHANGED DRAWING NUMBER	SDC					BLL	05-02	SHEET 2202 E 53
А	ADDED 350 MCM	BB	THC	JC			BLL	10-98	1 OF 2 DWG. NO. PAGE

Table	Table 2 Triplex/Tri Parallel Conductor XLP EC Grade 1350 Aluminum							
Cable	e Size	Stranding	SIW Min.	Insulation	Assertable Cade News			
Phase	Neutral	Stranding	Stranding	(mils)		Acceptable		
1/0	#2	19, 19, 7	7, 7, 7	80, 80, 60	Queens	Rosary	Marion	Brenau
1/0	1/0	19, 19, 19	7, 7, 7	80, 80, 80	Paterson	Luther	Montchlair	Bergen
2/0	1/0	19, 19, 19	11, 11, 7	80, 80, 80				Shaw
2/0	2/0	19, 19, 19	11, 11, 11	80, 80, 80	Caldwell	Lehman	Bloomfield	Hunter
	1/0	19, 19, 19	18, 18, 7	80, 80, 80			Molloy	Manhattanville
4/0	2/0	19, 19, 19	18, 18, 11	80, 80, 80	Trinity	Belmont	Regis	Sweetbriar
	4/0	19, 19, 19	18, 18, 18	80, 80, 80	Bronx	Glassboro	Manhattan	Monmouth
350	4/0	37, 37, 19	36, 36, 18	95, 95, 80				Wesleyan
E00	350	37, 37, 37	36, 36, 33	95, 95, 95	Kings	Trenton	Brooklyn	Rider
	500	37, 37, 37	36, 36, 36	95, 95, 95	Stevens	Jersey City	St. Johns	Westchester

Table 3 Quadplex/Quad Parallel Conductor XLP EC Grade 1350 Aluminum

Cable	e Size	Stranding	SIW Min.	Insulation	Accentable Code Names			
Phase	Neutral	Stranding	Stranding	(mils)		Acceptable	code names	
1/0	#2	19, 19, 19, 7	7, 7, 7, 7	80, 80, 80, 60	Kent	Cerritos	Piedmont	Notre Dame
1/0	1/0	19, 19, 19, 19	7, 7, 7, 7	80, 80, 80, 80	Carthage	Kellogg	Southern	Purdue
2/0	1/0	19, 19, 19, 19	11, 11, 11 ,7	80, 80, 80, 80				
2/0	2/0	19, 19, 19, 19	11, 11, 11, 11	80, 80, 80, 80	Lycoming	Itasca	Brandeis	Lafayette
4/0	2/0	19	18	80	Wake Forest			
., -	4/0	19	18	80	Earlham			
E00	350	37, 37, 37, 37	36, 36, 36, 33	95, 95, 95, 95	Salesian	Berry	Valparaiso	Wofford
500	500	37, 37, 37, 37	36, 36, 36, 36	95, 95, 95, 95	Covenant	Citadel	Marshall	Lackawanna

CONTRACTOR DEVELOPER CONDUCTOR INFORMATION

	SHEET		2202 E	54
2	0.5	,	22UZ E	JI
2	OF	2	DWG. NO.	PAGE

Developer Provided Materials Used In Underground Construction

TID Stock	_	
Number	Description	
	Manufacturer	Part Number
0-3325-008	Ground Rod, 8' x 5/8'	•
	KORTICK JOSLYN COOPER AB CHANCE ERITECH NEHRING	K5428 J8338 DN3C8 C615880 615880 NCC 588
0-5505-001	Wire, Bare Copper 1/0	0 AWG
	SERVICE SOUTHWIRE GENERAL CABLE NEHRING	
0-5505-002	Wire, Bare Copper, 2/	0 AWG
	SERVICE SOUTHWIRE GENERAL CABLE NEHRING	
0-5965-001	Wire, Covered AAC, 1 Code Name: FORDHAM	000 MCM XLP
	ALCAN PRYSMIAN NEXANS SOUTHWIRE GENERAL CABLE	

KINGWIRE

TID Stock		
Number	Description	
	Manufacturer	Part Number
0-5985-005	Wire, Covered AAC, 750 Code Name: SEWANEE	D MCM XLP
	ALCAN PRYSMIAN GENERAL CABLE SOUTHWIRE NEXANS KINGWIRE	
0-7189-002	Screws, Lag, Washer Hea	d 1/4" x 2" or 2 1/2"
	JOSLYN EMC	J26486.2 105
0-7370-001	Ground Rod Clamp for 5/	8″ Rod
	PENN UNION BLACKBURN JOSLYN KORTICK CMC ERITECH BURNDY	CAB-2 JAB58H J8492H K4672 WB58 HDC58R GRC58
U-1346-008	Service Box (Small) 13"	x 24″
	NEW BASIS QUAZITE/STRONGWELL CDR	FCA132418C4036 PD1324Z501-17 PA12-1324-18
U-1366-002	Service Box (Large) 17"	x 30″
	QUAZITE/STRONGWELL NEW BASIS CDR	PD1730Z501-17 FMA173018C4036 PA12-1730-18

TID Stock Number	Description	
	Manufacturer	Part Number
U-1366-002	Service Box (Extra Large) 24″ x 36″
	QUAZITE/STRONGWELL NEW BASIS CDR	PD2436Z501-17 FDC243618C4938 PA12-2436-18
U-2054-001	Transformer Pad - Single	Phase
	QUAZITE/STRONGWELL NEW BASIS ARMORCAST JENSEN PRECAST	PH5448BA UGS-504 6001986
U-2056-001	Transformer Pad – Three	e Phase (75 – 500 kVA)
	UTILITY VAULT NEW BASIS TEICHERT BROOKS QUAZITE/STRONGWELL ARMORCAST JENSEN PRECAST	By Description & Spec
U-2056-005	Transformer Pad – Three	Phase (750 kVA & larger)
	UTILITY VAULT NEW BASIS TEICHERT BROOKS QUAZITE/STRONGWELL ARMORCAST JENSEN PRECAST	By Description & Spec

U-2095-001 Padmounted Switch Substructure

TEICHERT BROOKS	0510ASYB60PSSTID
UTILITY VAULT	0260014-3300080
JENSEN PRECAST	4686 SWITCH VAULT

TID Stock		
Number	Description	
	Manufacturer	Part Number
U-2146-003	Pull Box - Large (12,00	0 lb loading) (48" x 78" x 60")
	TEICHERT BROOKS	0500ASYB60TID
	UTILITY VAULT	0290405-2024120
	JENSEN PRECAST	PB466_4878_TID
U-2146-005	Pull Box – X-Large (12,000 lb loading) (54" x 102" x 7	
	UTILITY VAULT	0260012-2024120
	TEICHERT BROOKS	0510ASYB60TID
	JENSEN PRECAST	PB4686_54102_TID
U-2178-001	Concrete Transformer	Vault (48" x 48" x 78")
	μτι ττγ γαμ τ	By Description & Spec
		by Description & Spee.
U-2178-002	Concrete Transformer	Vault Complete Lid Assembly
	UTILITY VAULT	By Description & Spec.
U-2178-003	Concrete Transformer	Vault 6" Extension Ring
	UTILITY VAULT	By Description & Spec.
U-2179-001	Horizontal Transformer Vault (36" x 60" x 54")	
	TEICHERT BROOKS	0400ASYTE54LTPG
	JENSEN PRECAST	35 TRANSFORMER VAULT
	UTILITY VAULT	3546 – TID
U-6045-001	Conduit Brace	
	SHERMAN RII FY	KC-1
	CONTINENTAL	CRB396

TID Stock Number	Description Manufacturer	Part Number
U-6048-001	Conduit Strap – 1"	
	INWESCO L.H. DOTTIE	50A10 403
U-6048-002	Conduit Strap – 2"	
	INWESCO L.H. DOTTIE	50A14 406
U-6048-003	Conduit Strap – 3"	
	INWESCO L.H. DOTTIE	50A18 408
U-6048-004	Conduit Strap – 4"	
	INWESCO L.H. DOTTIE	50A22 410
U-6048-005	Conduit Strap – 5"	
	INWESCO	50A26
U-6048-006	Conduit Strap – 6"	
	INWESCO	50A30
U-6050-001	Conduit – 1" Schedule 80	
	CARLON JM EAGLE CANTEX	49408 4701000102 A53BA12

U-6050-002 Conduit – 2" Schedule 80

TID Stock		
Number	Description	
	Manufacturer	Part Number
	CARLON	49411
	JM EAGLE	4702000102
	CANTEX	A53CA12
U-6050-003	Conduit – 3" Schedule 80	
	CARLON	49413
	JM EAGLE	4703000102
	CANTEX	A53DA12
0-6050-004	Conduit – 4" Schedule 80	
	CARLON	49415
	JM EAGLE	4704000102
	CANTEX	A53EA12
11-6050-005	Conduit - 5" Schedule 80	
0-0030-003	Conduit – 5 Schedule 60	
	CARLON	49416
	JM EAGLE	4705000102
	CANTEX	A53FA12
U-6050-006	Conduit – 6″ Schedule 80	
	CARLON	49417-010
	JM EAGLE	4706000103
	CANTEX	A53GA12
11-6060-002	Conduit – 2″ Schedule 40	
5 0000-002	Conduit 2 Schedule 70	
	CARLON	49011
	JM EAGLE	4602000103
	CANTEX	A52CA12

U-6060-003 Conduit – 3" Schedule 40

TID Stock		
Number	Description	
	Manufacturer	Part Number
	CARLON	49013
	JM EAGLE	4603000103
	CANTEX	A52DA12
U-6060-004	Conduit – 4″ Schee	Jule 40
	CARLON	49015
	JM EAGLE	4604000103
	CANTEX	A52EA12
U-6060-005	Conduit – 5″ Schee	dule 40
		40016
		4605000103
	CANTEX	Δ52ΕΔ12
	CANTER	
U-6063-003	Conduit - Elbow 3'	' 30° 36″ Radius Schedule 80
	CARLON	UB6FL
	CANTEX	5123759
	JM EAGLE	3303680
U-6063-004	Conduit - Elbow 4" 30° 36" Radius Schedule 80	
		LIB6EN
	CANTEX	5123760
	JM EAGLE	4303680
U-6063-005	Conduit - Elbow 5″ 30° 36″ Radius Schedul	
		UDOFF 5123761
	JM EAGLE	5303680
U-6070-002	Conduit - Elbow 2'	' 45° 18" Radius Schedule 80

UB7CJ

TID Stock			
Number	Description		
	Manufacturer	Part Number	
	JM EAGLE	2451880	
U-6070-003	Conduit - Elbow 3″ 45° 36″ Radius Schedule 80		
	CARLON	UB7FL	
	CANTEX	5121077	
	JM EAGLE	3453680	
U-6070-004	Conduit - Elbow 4" 4	5° 36" Radius Schedule 80	
	CARLON	UB7FN	
	CANTEX	5119821	
	JM EAGLE	4453680	
U-6070-005	Conduit - Elbow 5″ 45° 36″ Radius Schedule 80		
	CARLON	UB7FP	
	CANTEX	5119820	
	JM EAGLE	5453680	
U-6075-002	Conduit - Elbow 2" 45° 18" Radius Schedule 40		
	CARLON	UA7CJ	
	CANTEX	5133797	
	JM EAGLE	2451840	
U-6075-003	Conduit - Elbow 3" 45° 36" Radius Schedule 40		
	CARLON	UA7FL	
	CANTEX	5133779	
	JM EAGLE	3453640	
U-6075-004	Conduit - Elbow 4" 4	5° 36″ Radius Schedule 40	
	CARLON	UA7FN	
	CANTEX	5133777	
	JM EAGLE	4453640	

TID Stock		
Number	Description Manufacturer	Part Number
U-6075-005	Conduit - Elbow 5″ 4	5° 36″ Radius Schedule 40
	CARLON CANTEX	UA7FP 5133780
	JM EAGLE	5453640
U-6080-002	Conduit - Elbow 2" 9	0° 24″ Radius Schedule 80
	CARLON	UB9CJ
		5121099
	JM LAGLE	2901000
U-6080-003	Conduit - Elbow 3" 90° 36" Radius Schedule 80	
	CARLON	UB9FL
		5121081
	JM EAGLE	2902080
U-6080-004	Conduit - Elbow 4″ 9	0° 36″ Radius Schedule 80
	CARLON	UB9FN
	CANTEX	5121023
	JM EAGLE	4903680
U-6080-005	Conduit - Elbow 5" 90° 36" Radius Schedule 80	
	CARLON	UB9FP
	CANTEX	5121083
	JM EAGLE	5903680
U-6085-002	Conduit - Elbow 2″ 9	0° 24″ Radius Schedule 40
	CARLON	UA9CJ
	CANTEX	5133844
	JM EAGLE	2901840

TID Stock				
Number	Description			
	Manufacturer	Part Number		
U-6085-003	Conduit - Elbow 3" 9	Conduit - Elbow 3″ 90° 36″ Radius Schedule 40		
	CARLON	UA9FL		
	PW PIPE	By Description		
	CANTEX	5133820		
	JM EAGLE	3903640		
U-6085-004	Conduit - Elbow 4″ 90° 36″ Radius Schedule 40			
		5133821		
	JM EAGLE	4903640		
U-6085-005	Conduit - Elbow 5″ 90° 36″ Radius Schedule 40			
	CARLON	UA9FP		
	CANTEX	5133841		
	JM EAGLE	5903640		
U-6085-006	Conduit - Elbow 6″ 90° 60″ Radius Schedule 40			
		By Description		
		by Description		
U-6090-002	02 Conduit – 2" Schedule 40/80 Coupling			
	CARLON	E940J		
	JM EAGLE	60010200		
	KRALOY	E13120		
	CANTEX	6141628		
U-6090-003	Conduit – 3" Schedule 40/80 Coupling			
		E0401		
		LJHUL 60010300		
	KRALOY	E13130		

TID Stock			
Number	Description		
	Manufacturer	Part Number	
	CANTEX	6141630	
U-6090-004	Conduit – 4" Schedule 40/80 Coupling		
	CARLON	E940N	
	JM EAGLE	60010400	
	KRALOY	E13140	
	CANTEX	6141632	
U-6090-005	Conduit – 5" Schedule 40/80 Coupling		
	CARLON	E940P	
	JM EAGLE	60010500	
	KRALOY	E13150	
	CANTEX	6141633	
U-6090-006	Conduit – 6" Schedule 40/80 Coupling		
	CARLON	E940R	
	JM EAGLE	60010600	
	CANTEX	6141634	
U-6092- 002	Conduit – 2″ Schedul	e 40 Long Line Coupling	
	CARLON	E941J	
	CANTEX	6121623	
	JM EAGLE	240FABCPL	
U-6092- 003	- 003 Conduit – 3″ Schedule 40 Long Lin		
	CARLON	E941L	
	CANTEX	6202005	
	JM EAGLE	340FABCPL	
U-6092- 004	Conduit – 4″ Schedule 40 Long Line Cou		
	CARLON	E941N	

TID Stock		
Number	Description	
	Manufacturer	Part Number
	CANTEX	6202010
	JM EAGLE	440FABCPL
U-6135-002	Conduit – 2″ Plug (Ca	ap)
	CARLON	P258J
	PW PIPE	61800200
	KRALOY	E35020A
	CANTEX	5315248
U-6135-003	Conduit – 3″ Plug (Ca	ap)
		FZJOLI 61800300
		E35030A
		5315260
	CANTEX	5515200
U-6135-004	Conduit – 4″ Plug (Ca	ap)
	CARLON	P258N
	PW PIPE	61800400
	KRALOY	E35040A
	CANTEX	5315252
U-6135-005	Conduit – 5″ Plug (Ca	ap)
		02500
		F230F 61900E00
		61600500
		5315253
	CANTEX	5515255
U-6140-002	Solvent Cement for Conduit - 1 qt PVC AllWe	
	CARLON	VC9982
	WELD ON	DUIT 427
U-6220-000	Compression Termina	al Lug for #2 Wire

TID Stock Number

Description

Manufacturer	Part Number
ANDERSON	AHL-2-BN-TP
BLACKBURN	AL4P
HOMAC	SA2 NTN
DOSSERT	DPL 6-2N-D2-EC-SN

U-6220-001 Compression Terminal Lug for 1/0 Wire

PENN UNION	BLUA-1/0D3
ANDERSON	AHL-1/0-BN-TP
BLACKBURN	AL6P
HOMAC	AL1/0-NTN

U-6220-002 Compression Terminal Lug for 2/0 Wire

PENN UNION	BLUA-2/0D
ANDERSON	AHL-2/0-BN-TP
BLACKBURN	AL8P
HOMAC	AL2/0-NTN

U-6220-003 Compression Terminal Lug for 4/0 Wire

PENN UNION	BLUA-4/0D
ANDERSON	AHL-4/0-BN-TP
BLACKBURN	AL12P
HOMAC	AL4/0-NTN

U-6220-004 Compression Terminal Lug for 350 MCM Wire

PENN UNION	BLUA-035D
ANDERSON	AHL-350-BN-TP
BLACKBURN	AL18P
HOMAC	AL350-NTN

U-6220-005 Compression Terminal Lug for 500 MCM Wire

PENN UNION	BLUA-050D2
ANDERSON	VACL-500-12BN
BLACKBURN	ALS4P

TID Stock Number	Description Manufacturer	Part Number
	HOMAC	2081-500
	MAC	MUH 500
U-6220-006	Compression Terminal Lug for 750 MCM Wire	
	ANDERSON BLACKBURN HOMAC PENN UNION	AHL-750-BN-TP AL44P AL750-NTN KWL-079D1-P1C

U-6220-007 Compression Terminal Lug for 1000 MCM Wire

BURNDY	YCAK44A-2G2
PENN UNION	KWL-100D1-TN
BLACKBURN	AL60P

U-6225-004 Wire, Covered AAC, 4/0 AWG XLP

Code Name: BELOIT

- ALCAN PRYSMIAN NEXANS SOUTHWIRE CENTELSA
- U-6225-007 Wire, Covered AAC, 500 MCM XLPE Code Name: EMORY
 - ALCAN PRYSMIAN NEXANS SOUTHWIRE CENTELSA

U-6229-001 Cable, Covered AAC, Triplex 1/0 XLPE Code Name: BRENAU, MARIAN, QUEENS, ROSARY, PATERSON, LUTHER, MONTCHLAIR, BERGEN

TID Stock	
Number	Description
	Manufacturer Part Number
	ALCAN
	PRYSMIAN
	NEXANS
	SOUTHWIRE
	CENTELSA
U-6229-002	Cable, Covered AAC, Triplex 2/0 XLPE Code Name: SHAW, CALDWELL, LEHMAN, BLOOMFIELD, HUNTER
	ALCAN
	PRYSMIAN
	CENTLESA
U-6229-004	Cable, Covered AAC, Triplex 4/0 XLPE
	Code Name: MOLLOY, MANHATTANVILLE, TRINITY, BELMONT, REGIS, SWEETBRIAR
	ΑΙ ΓΑΝ
	PRYSMIAN
	NEXANS
	SOUTHWIRE
	CENTELSA
11-6220-006	Cable Covered AAC Tripley 350 XI BE
0-0229-000	Code Name: WESLEYAN
	ΔΙ ζΑΝ
	PRYSMIAN
	NEXANS
	SOUTHWIRE
	CENTELSA
U-6229-007	Cable, Covered AAC, Triplex 500 XLPE
	Code Name: RIDER, BROOKLYN, KINGS, TRENTON, STEVENS, JERSEY CITY, ST. JOHNS, WESTCHESTER

ALCAN

TID Stock		
Number	Description	
	Manufacturer	Part Number
	PRYSMIAN	
	NEXANS	
	CENTELSA	
U-6232-001	Cable, Covered AAC	, Quadplex 1/0 XLPE
	CARTHAGE, KELLOGG	, SOUTHERN PURDUE
	ALCAN PRYSMIAN	
	NEXANS	
	SOUTHWIRE	
U-6232-002	Cable, Covered AAC	, Quadplex 2/0 XLPE
	Code Name: LYCOMIN	IG, ITASCA, BRANDEIS, LAFAYETTE
	ALCAN	
	PRYSMIAN	
	SOUTHWIRE	
U-6232-007	Cable, Covered AAC, Quadplex 500 XLPE Code Name: WOFFORD, VALPARAISO, BERRY, SALESIAN MARSHALL, CITADEL, LACKAWANNA, COVENANT	
	ΔΙ ΓΔΝ	
	PRYSMIAN	
	NEXANS	
	SOUTHWIRE	
U-6290-000	Cable Pulling Compound 1 Gallon	
	ARNCO	HL B1005P
	POLYWATER	A-640
	DCD	35000-410

U-6300-001 Sealing Compound
TID Stock Number	Description Manufacturer	Part Number	
	A.C. HORN. INC DEHYDRATING 6 MASTIC		
U-6360-001	Cable Protector		
	VIRGINIA PLASTICS ELECRICAL MATERIALS CO. CONDUX EMCO	LG-345 27-1 0804 2300 27-1G	
U-6390-001	Heat Shrink Cap (0.75" - 1.50")		
	T&B SIGMAFORM MAC UTILCO 3M RAYCHEM	HSC300-600 SSC-150 ISC 150 HSC-2 ICEC 031A ESC-3/A	
U-6390-002	Heat Shrink Cap (1.25" - 2.50")		
	T&B SIGMAFORM MAC UTILCO 3M RAYCHEM	HSC250 SSC-250 ISC 250 HSC-3 ICEC 061A ESC-5/A	
U-6390-003	Heat Shrink Cap (1.75" - 3.60")		
	T&B SIGMAFORM MAC 3M RAYCHEM	HSC360 SSC-360 ISC 360 ICEC 161A ESC-6/A	

U-6440-001 Power Marker - Flat

TID Stock Number	Description		
	Manufacturer	Part Number	
	3M	#1251	
U-6470-001	Street Light Fuse Holder		
	BUSS	TRON HEB-JJ	
U-6471-001	Street Light Fuse Holder Boots		
	BUSS	1A0512	
U-7145-010	Street Light Fuse 10 Amp		
	BUSS	BAF10	
U-7145-015	Street Light Fuse 15 Amp		
	BUSS	BAF15	
U-7145-025	Street Light Fuse 25 Amp		
	BUSS	BAF25	
U-7145-030	Street Light Fuse 30 Amp		
	BUSS	BAF30	
U-8200-004	Pull Rope – 3/4"		
	NEPTCO ARNCO HERCULINE WELLINGTON	WP2500P BLWP25 P2500W N303M	

Section 5

Locating Materials

The following is a list of suppliers who have indicated that they stock materials required by TID. Please note that **not all materials are available from all suppliers**. If you have any questions or problems sourcing materials required by TID, please contact the TID Purchasing Division at (209) 883-8401.

Acme Electric

1025 S. Kilroy Rd. Turlock, CA 95380 (209) 667-2851 Contact: Buster Lucas

All-Phase Electric

2250 Cooper Ave Merced, CA 95340 (209) 384-0777

Champion Wire and Cable

822 W. 22nd St Tempe, AZ 85282 (800) 329-1900 (602) 736-1525 Contact: Jeremy Scott

Consolidated Electric Distributors (CED)

1343 N. Emerald Avenue Modesto, CA 95351 (209) 524-5591 Contact: Steve Miller

Central Wholesale Electric

1466 N. Carpenter Rd Modesto, CA 95351 (209) 550-2500 Contact: Randy DeCicco

Graybar Electric

1211 Fee Dr Sacramento, CA 95815 (800) 388-8061 ext. 1947 Contact: Rod Ruggles

Herning Underground Supply

567 Exchange Ct Livermore, CA 94550 (925) 373-8660 Contact: Pat Ruth :(559) 994-8312

Independent Electric Supply, Inc.

1565 Venture Lane Turlock, CA 95380 (209) 668-4702 Contact: David Crew

Kingwire

3030 N. Lamb Blvd Ste 113 Las Vegas, NV 89115 (702) 368-7597 (702) 368-7598 (fax) Contact: Bob

Platt Electric

1431 Freitas Pkwy Turlock, CA 95380 (209) 656-1063 Contact: Deeann Harmon

Rexel Norcal Valley

919 Emerald Avenue Modesto, CA 95351 (209) 577-6611 Contact: Alex Ceja

Willie Electric Supply

101 S. 7th Street Modesto, CA 95333 (209) 527-6800 Contact: Gary Bird/Todd Wilson The following list of companies have material on hand, have access to material, or will provide you with additional sources to locate materials required by the District. Order materials in advance as some may have a lead time.

<u>COMPANY</u>	<u>BRAND NAME</u>
New Basis 11501 Dublin Blvd Ste. 200 Dublin, CA 94568 (925) 551-5019	New Basis
Teichert Brooks 2441 Charter Way Stockton, CA 95206 (209) 464-7696	Teichert Brooks
ElectriGroup 4600 Pell Dr. Sacramento, CA 95838 (916) 922-5550	Carlon
GEXPRO General Electric Supply Company 4608 Roseville Rd North Highlands, CA 95660 (916) 339-4521	Carlon Cantex
Intraline 379 Beach Rd. Burlingame, CA 94010 (650) 340-9133	Polywater Cantex J-M Eagle
Kortick Manufacturing Co. 2230 Davis St. Hayward, CA 94545 (510) 856-3600	Kortick

<u>COMPANY</u>

Neptco P.O. Box 2323 Pawtucket, RI 02861-0323 (800) 354-5445

Maydwell & Hartzell

2236 Davis Ct. Hayward, CA 94545 (510) 780-1700

Pacific Utilities

2475 Estand Way Pleasant Hill, CA 94523 (925) 674-1600

HD Supply - Benicia

6350 Goodyear Rd Benicia, CA 94510 (800) 670-7746

HD Supply - Portland

9151 S.E. McBrod Portland, OR 97222 (800) 547-9490

Westchem Equipment Co.

28301 Industrial Blvd. Hayward, CA 94545 (510) 782-3675

BRAND NAME

Neptco

Strongwell/Quazite

Virginia Plastics Utilco

Fargo Homac Inwesco Burndy

Alcan Cantex Carlon Polywater

Inwesco

Section 6

Inspections

Facilities constructed by either the owner or his or her builder must be constructed according to TID standards and applicable local building codes.

If the TID inspector determines that any of the customer/builder-installed facilities do not meet TID standards, the owner/builder will be responsible for making the necessary changes at his or her cost.

TID cannot complete the service work until **ALL** customer work has passed TID and applicable governing agencies' inspections.

The following is a list of governing agencies within the TID service territory:

Stanislaus County Building Inspection Office

ATTN: Deputy Building Inspector 1010 10th St., Suite 3500, Modesto 95354

(Serving: Ceres, Denair, Hickman, Keyes, La Grange & Stanislaus Co.) Phone: (209) 525-6557

Merced County Inspection Office

ATTN: Chief Building Official 2222 M St., Merced 95340

(Serving: Ballico, Delhi, Hilmar & Merced Co.) Phone: 209) 385-7477

City of Hughson Building Department

ATTN: Chief Building Official 7001 Whitmore Ave. #8 Hughson, CA. 95326

(Serving: City of Hughson) Phone: (209) 883-0811

City of Modesto Building Inspection Department

1010 10th St., Suite 3100, Modesto 95354

(Serving: City of Modesto) Phone: (209) 577-5232

City of Patterson Community Development Department

Building Division 1 Plaza, Patterson 95363

(Serving: City of Patterson) (209) 895-8030

City of Turlock Building Inspection Department

156 S. Broadway, Ste 130, Turlock 95380

(Serving: City of Turlock) Phone: (209) 668-5560

NOTE: Under some conditions, state or other authorities will be responsible for inspecting the electric facilities. The agencies listed above will assist you in determining the proper authority.

TID Contact List

TID Service Division

(209)-883-8301

TIDservicedivision@tid.org

TID Line Engineering Department

(209)-883-8415

LineEngineering@tid.org

TID Customer Service

(209)-883-8222

CSworkorders@tid.org

TID Underground Inspector

(209)-606-0136

TIDuderground@tid.org

TID Line Scheduler

(209)-883-8660

jobscheduling@tid.org