

SECTION 6. IRRIGATION SERVICE REQUIREMENTS

6.1 Preparing for New Electrical Service

To determine the availability, location, and condition of the service, the customer should complete a Request for Irrigation Electrical Service Application to advise Franklin PUD of the service requirements before installing electrical equipment, trenches, conduit, and service poles. FPUD will determine the availability location, and conditions for the service.

FPUD may require the customer to use reduced starting voltage or other equivalent measures. Any variable frequency drives (VFD) or other equipment with harmonic content should be noted on the Request for Irrigation Electrical Service Application. Check with FPUD Engineering before purchasing VFDs. The FPUD Engineering Department representative will review the location of service, route, and other associated information with the customer.

6.2 Permits

Customers will obtain any permits required from city, county, and state agencies before excavating on any public lands or right-of-way and comply with the requirements of these agencies.

6.3 Beginning Construction

Line extension fees covering FPUD labor, equipment, and material costs will be paid by the customer before FPUD construction crews are scheduled.

6.4 Installation & Material Specifications

The customer will provide and install all trenches, conduits, transformer vaults or pads, backfill, secondary conductors, required service poles, and all service entrance wiring and equipment.

Meter

The customer shall supply and install the necessary meter base and obtain inspection and approval from the State Electrical Inspector for all service entrance equipment. Franklin PUD will supply and install the meter into the customer's meter base when the new service is approved and connected. Franklin PUD will provide and install current transformers (CTs) when required. Contact Franklin PUD Engineering for details.

Easements

If an easement is necessary, FPUD Engineering Department representative will review this requirement with customer.

Standard Service Voltages:

- 1-phase, 120/240 V
- 3-phase, 208Y/120 V
- 3-phase, 480Y/277 V

Franklin PUD STRONGLY recommends installing "Phase Failure Protection" on your 3-phase service equipment to protect your pump motors.

6.5 Overhead Line Extensions

When an overhead line extension, using pole-mounted transformers, is installed for irrigation service, the customer bears all line extension costs. Franklin PUD recommends the property owner or farmer review the project scope with FPU D Engineering to help minimize interruptions to farming activities.

Franklin PUD will provide and install the following at the customer's expense:

- Distribution poles
- Primary Conductor
- Transformers
- Short overhead service conductor from the distribution pole to your service pole.

The **CUSTOMER** shall provide the following in compliance with all local codes and have a licensed electrician install:

- Service poles - which may support other customer service entrance equipment, i.e., meter bases, panels, and disconnect switches. This equipment remains customer property and maintenance responsibility.
- Associated service entrance conductor and equipment.
- Underground service conductor riser conduits shall be brought 3 feet from Franklin PUD pole. The remaining 3-feet of underground conduit AND riser conduit shall be supplied to Franklin PUD for installation.
- Conduit sweep for the base of the pole.
- Three properly sized standoff Brackets for conduit riser.
- Weather head for the top of the riser.

The customer or contractor representative should contact Franklin PUD to review specific service requirements before purchasing or installing field installations.

6.6 Underground Line Extensions

Regular irrigation primary (high voltage) line extensions utilize direct burial conductors (not in conduit). When a conduit system is necessary for protection from rodents or rock, or if other special conditions exist, Franklin PUD will provide guidance and specifications for material supplied and installed by the customer.

Transformer Pad/Vault and Cover

A pad-mounted transformer is installed on a concrete pad supplied and installed by the customer. Franklin PUD will provide the pad specifications after the transformer size is determined.

For large installations

Franklin PUD may require a vault with a pad lid instead of the pad only where special conditions exist. Specifications will be supplied after the transformer and customer service wire sizes are known. FPUD Engineering must first approve equivalent products.


Secondary Conductors

The customer will install secondary conductors (with additional wire to reach the transformer) at the transformer vault/pad location before Franklin PUD installs the transformer.



CUSTOMER SERVICE CONDUCTOR RISER ON DISTRIBUTION POLE

FRANKLIN
PUD



THE POWER IS YOURS

DWN.
WR
APP. D. SAMS

DWG. NO.

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