

SECTION 5. COMMERCIAL SERVICE REQUIREMENTS

5.1 Preparing for New Electrical Service

To avoid unnecessary delays in completing the service installation, customers should provide the following:

- Completed Request for Commercial Electrical Service Application
- A plot plan with the proposed meter base and transformer locations (AutoCAD file preferred).
- Depending on equipment requirements, Franklin PUD may require prepayment before ordering.

Taking into consideration customer's preferred transformer locations, Franklin PUD will provide the final transformer location(s) based on the engineering design analysis. Assistance is available by calling the Franklin PUD's Engineering Department at 509-547-0556.

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.

5.2 Service Orders

A Franklin PUD Engineering representative will visit the construction site, design the necessary facilities, prepare a service order for materials and construction, and generate an invoice covering all Franklin PUD's labor, equipment, and material costs. If additional customer-furnished items are required, a Franklin PUD Engineering representative will review them with the customer as the job progresses.

The customer will be notified if additional fees or utility easements are needed before construction.

5.3 Permits Needed

All new construction, remodels, and upgrades shall conform to current and applicable provisions of the National Electrical Code, the National Electrical Safety Code, Federal and State regulations, and Franklin PUD's Rules & Regulations. State and local governments require that you obtain the following permits and notify us when a new service has been approved before connecting to Franklin PUD's system.

State Electrical Permit

Department of Labor & Industries – **See Contact Information in Section 1.**

5.4 Beginning Construction

Once all the necessary fees, inspections, and approvals have been received, the customer should allow **5 to 7 working days** from receiving notification from the Department of Labor & Industries to connect a new service. Franklin PUD will make every effort to expedite your request. However, several factors influence the process, including weather, site preparation, and workforce and materials availability. The sooner the information is provided, the sooner the material can be ordered. Depending on transformer size and equipment requirements, Franklin PUD may require prepayment before ordering.

5.5 Installation & Material Specifications

The cost of transformer(s), primary facilities, meter costs, overhead service conductor from pole to service mast (for overhead services only) and a service installation charge will be provided by Franklin PUD and reimbursed by the customer prior to the connection of the service. Franklin PUD will provide and install current transformers when required.

5.6 Customers Provide the Following

All easements for primary lines and transformer(s), trenching, conduit, bedding, backfill, vaults, and vault installation for primary and secondary conductors. Additional items may be required after final loads are known and FPUD's design is finalized. When preliminary engineering design is complete, Franklin PUD will provide an estimate for the line extension fee. All line extension fees must be paid before Franklin PUD construction crews are scheduled.

Vaults and Lids

After determining the transformer sizes, FPUD will provide specifications for the pad-mounted transformers, vaults, and lids.

Service Wire and Conduit

All service wire and conduits from secondary bushings of transformer, or designated junction box, to the customer's electrical panel remains customer property and maintenance responsibility.

Meter Base

Franklin PUD will provide the specific type of meter base after the load data is received. Franklin PUD will prewire your meter base before it is installed if a CT-type meter base is required. Contact Franklin PUD's Operations (509-546-5975) for availability and to schedule a time to exchange your meter base for one that is prewired.

Note: The meter base height requirement on drawings is to the center of the meter. The trench must be backfilled before service is pulled and the meter set.

CT Installations

A continuous conduit run from the current transformer enclosure to the meter base is required (1" for 3-phase, 3/4" for 1-phase). The conduit shall not be longer than 25 feet and must be rigid galvanized steel.

For CT installations where current transformers are mounted inside FPUD transformers, the conduit shall enter on the low voltage side.

Current Transformer (CT) Enclosure

Franklin PUD will supply and install the current transformers at the customer's cost.

Equipment Access

Franklin PUD personnel must have 24-hour access to equipment using a key box or double-locking gate. Contact a Franklin PUD Engineering representative for specifics about access equipment.

Special Materials

Delivery time for unique materials or transformers depends on supply and demand. Orders could take six months or longer.

5.7 3-Phase Commercial Service

The customer will provide and install all trenching, conduit, primary junction vaults, transformer vaults, backfill, secondary conductor, as well as service entrance wiring and equipment. Customer retains ownership and maintenance responsibility for customer-provided service conductors and equipment.

A Franklin PUD Engineering representative will meet the customer and representative at the construction site to finalize the scope of the work, if needed. If additional customer-furnished items are required, a Franklin PUD Engineering representative will review them with the customer as the job progresses.

A Franklin PUD Engineering representative will determine the following:

- Availability, location, and conditions of service
- Easements, if necessary
- Dollar amount of line extension fee for your new service

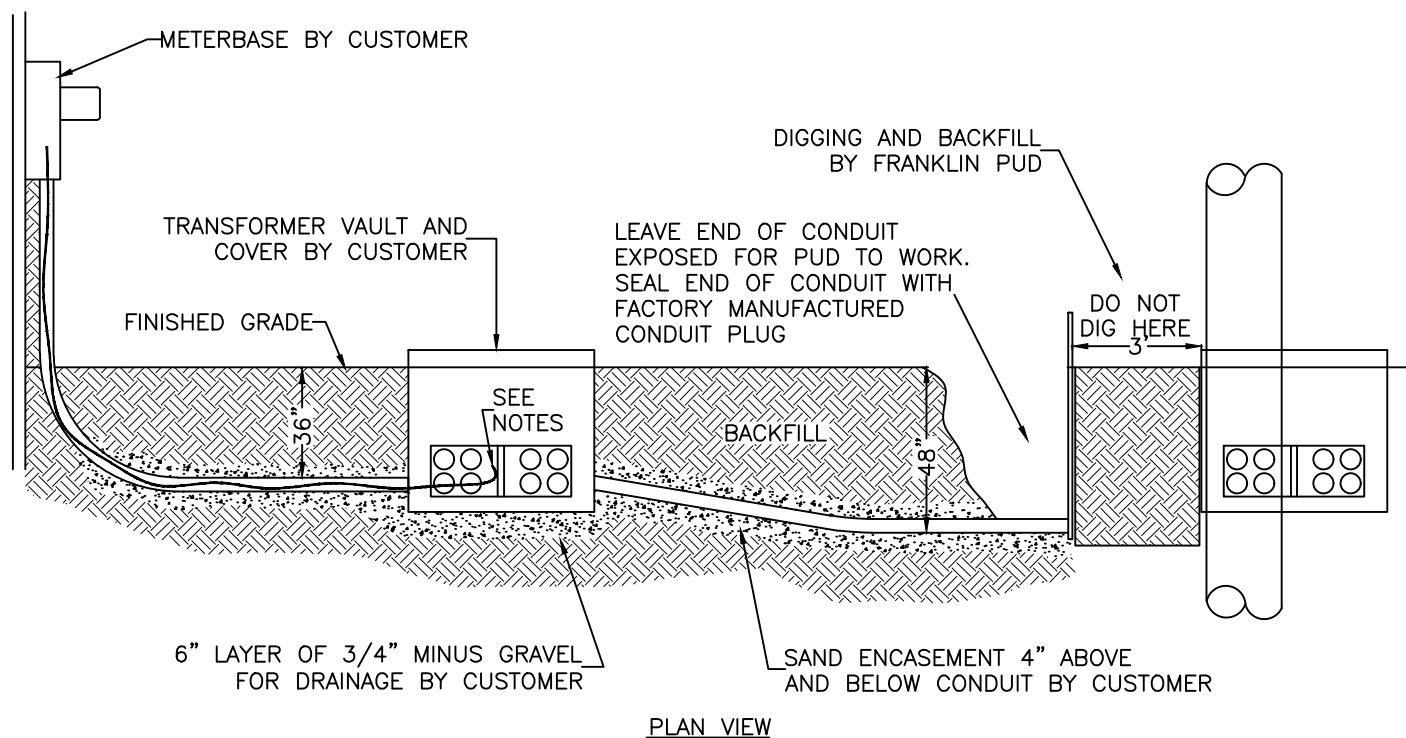
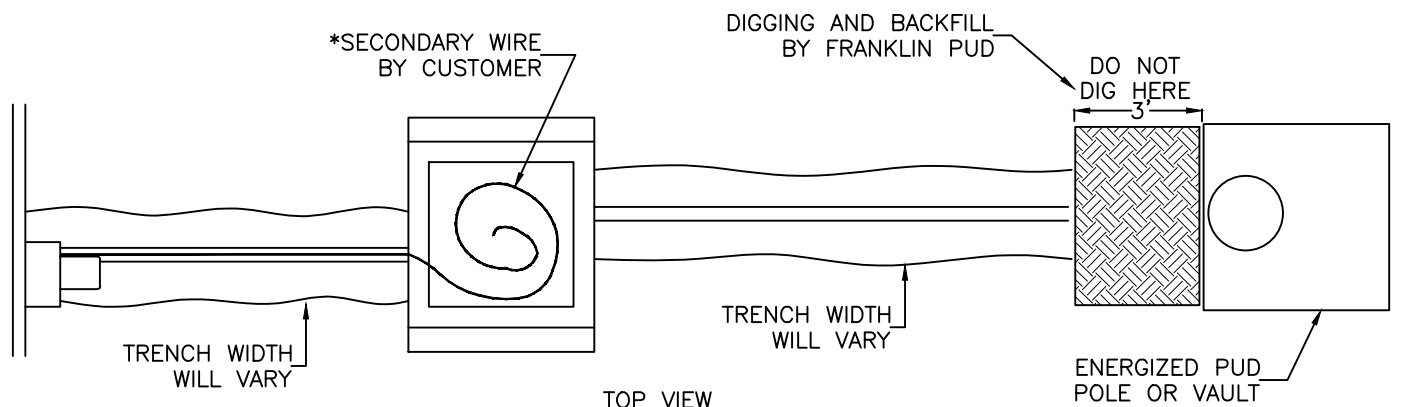
Customers are encouraged to call FPUD Engineering at 509-547-0556 early in the planning process.

Meter

Franklin PUD will supply and install the meter into the customer's meter base when the new service is approved and connected. FPUD will also provide and install current transformers (CTs) when required. Customers should check with FPUD Engineering for detailed meter socket, test switch, and installation requirements. The customer must pay all metering costs before the service is connected.

Permits

The customer obtains all permits required from city, county, and state agencies before excavating on any public lands or right-of-way, and installation must comply with the requirements of applicable agencies.



NOTES:

* LOOP ENOUGH SECONDARY WIRE SLACK IN VAULT TO ALLOW CABLE TO EXTEND 8' ABOVE VAULT COVER. CHECK WITH FRANKLIN PUD ENGINEERING FOR SECONDARY DETAILS.

ALLOW FOR OVER HANG OF TRANSFORMER COOLING FINS BEYOND EDGE OF TRANSFORMER VAULT COVER. THE VAULT COVER SHOULD BE PLACED 10- FEET FROM ALL COMBUSTIBLE SURFACES, OVERHANGS, WINDOWS AND DOORS OR 4- FEET FROM ANY NON-COMBUSTIBLE SURFACES HAVING NO WINDOWS OR DOORS WITHIN 10- FEET OF VAULT COVER.

DO NOT DIG WITHIN 3- FEET OF FRANKLIN PUD POWER POLE OR ENERGIZED VAULT.

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**3-PHASE COMMERCIAL SERVICE
UNDERGROUND LINE EXTENSION GUIDE**

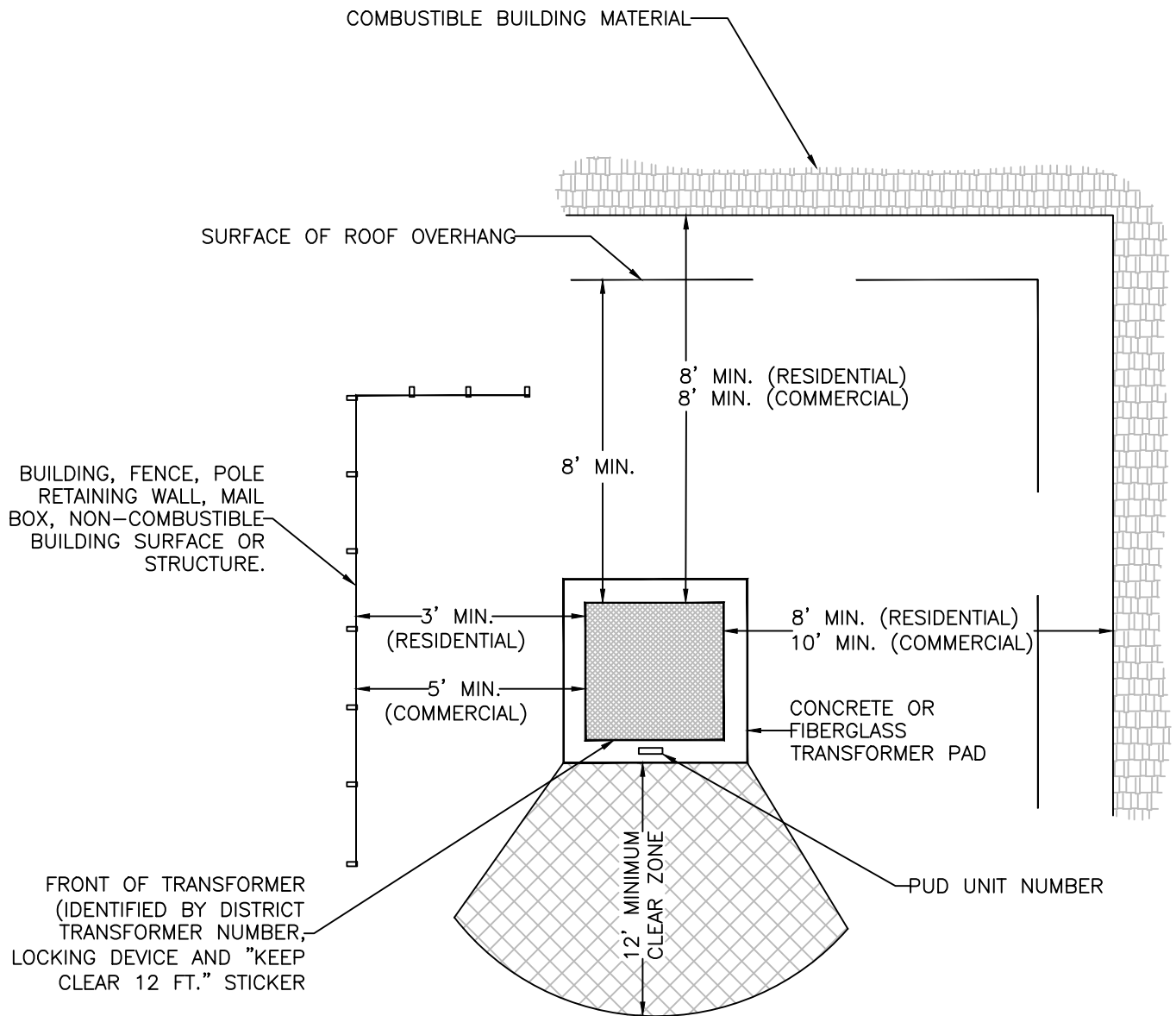
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- NO OBSTRUCTIONS ALLOWED OVER TRANSFORMER.
- A MINIMUM 8 FT. CLEARANCE IS REQUIRED FROM ALL DOORS AND WINDOWS.
- DRAINAGE AT PADMOUNT TRANSFORMER MUST BE AWAY FROM BUILDING IN CASE OF OIL LEAKAGE.
- REFER TO LANDSCAPING GUIDELINES.

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TYPICAL TRANSFORMER CLEARANCES

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