Commercial Electric Policy



7/19/16

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All meter bases shall be Gallatin Dept. of Electric (GDE) approved meter bases, see GDE meter base policy. All meter base locations must be approved by GDE's Engineering Dept.

Construction

GDE's normal primary construction is overhead (OH) for single phase services less than 167KVA and three phase services less than 500KVA. For single phase services greater than 167KVA and three phase services greater than 500KVA, normal primary construction will be overhead with the last span being underground to a pad mounted transformer (Customer responsible for conduit and pad construction). If a customer wishes to have underground (UG) primary construction, the customer will pay the cost difference of OH vs UG and also install conduit and transformer pad per GDE specs before construction will begin. A thirty foot (30') cleared easement will be required for all GDE primary construction. GDE does not stock any transformer larger than 2500KVA. Customers not signing a power contract for a load of 50KW or greater will pay aid to construction cost for all work.

Ownership/Repairs

Meter bases/CT cabinets/Tap boxes/etc., service conduit/wire from GDE's secondary equipment, and risers are the customer's property and the customer's responsibility to repair and locate. GDE does not own, locate, maintain, or repair commercial UG service conduits or cables. GDE owns and maintains service wire and service connections on OH services

Underground Primary/Service

All new construction will have underground services. On underground services, the customer is responsible for all ditch, conduit, and wire installations to transformer per the NEC (State Electrical Inspector will inspect). On underground primary, the customer is responsible for all ditch, conduit (size to be determined by GDE Engineering Dept.), and transformer pad (see GDE Concrete Pad Detail, pg9). All primary conduit shall be inspected by GDE or GDE's approved agent before being covered (see GDE Underground Primary Specifications, pg8)

Multi-Unit/Multi-Service Buildings

Multi-unit buildings and buildings with multiple services shall have meter bases numbered to GDE specs (See Meter Base Label, pg12). Multi-gang meter bases must be approved by GDE Metering Dept. Meter troughs will not be allowed (see Secondary Termination Enclosures, pg4).

Secondary Termination Enclosures

GDE shall not connect to any new troughs. Secondary termination enclosures (provided by the Customer) will be used on all new services requiring multiple meters where ganged meter bases are not used. Existing troughs shall be replaced with secondary termination enclosures under the following circumstances: Adding new load, upgrading service, adding a new service, or replacing GDE's line side conductors.

Each individual service in the termination cabinet shall be labeled by unit number, suite number, or space number on the service cable for disconnect/reconnect purposes. The labeling must be approved by the GDE's Engineering Dept. All conductors shall be routed behind the termination cabinet buss work.

Secondary termination enclosures can be purchased at local electrical distributors. Enclosures are the property of the Customer. GDE requires a GDE lock on these enclosures. A GDE employee will unlock the enclosure for the Customer when necessary.

The following are acceptable part numbers for termination enclosures. Any enclosure not listed must approved by the GDE Engineering Dept.

CMC (Connector Manufacturing Company) Wall Mounted three phase

_	Civic (Connector Manaracturing Company) Wan Mounted three phase								
	Catalog Number	Cond. Range AWG	No. of Cond. Per	W	D	Н	Phase	U.L. Listed Amp Rating	
			Phase	Dimensions - Inches			Cover	Copper	Aluminum
	LWTE21-500	10-500 kcmil	21	32.00	16.00	51.00	TEC-30	3800	3100
	LWTE14-750	2-750 kemil	14	32.00	16.00	51.00	TEC-30	3325	2695
	LWTE14-1000	1/0-1000 kcmil	14	32.00	16.00	51.00	TEC-30	3815	3115

A disconnect is allowed in front of the termination enclosure. A disconnect is not allowed between the termination enclosure and the meter base.

Meter Bases

- Location shall be approved by GDE's Engineering Dept.
- Shall be surface mounted and on a permanent structure controlled by the Customer.
- Shall not be located in areas that are closed off by porches, decks, patios, fences, walls, screens, etc.
- GDE shall have unobstructed access to meter base.
- Shall be mounted 5'6" from ground to center of meter base.
- GDE/Customer service wire will enter left side of meter base, customer load wires will exit right side facing meter base.
- Shall be an approved meter base listed in approved meter base table below. Multi-gang bases will be approved on a case by case bases by GDE's Metering Dept.
- Shall be installed to NEC requirements.

Self-Contained (200-400Amp)

Size (amps)	Phases	Туре	Milbank	Durham	Siemens	Eaton
200	Single	ОН	U7021-DL-TG-BL	RS213N	Type UAT3 / HQU4	UTRS213NE
200	Single	UG	U1980-0-BL	UTRS223A	Type UAS8/UAS9 / HQW4	UTRS223ACH
400	Single	ОН	U1079-R-BL		Type HQST 4	UTH4300TCH
400	Single	UG	U1797-0-K3L-K2L-BL		Type HQDSW/SWD 4	UTH43369UCH
400	Single	OH/UG	U2448-x	H4330T		UTH4330TCH

Instrument Rated (600Amp and above)

Size	Terminals	Milbank	Durham	Siemens
20 Amp *	8	UC7235-RL	R6821-8K	9804-8542

^{* 8} Terminal Base Requires Automatic Bypass Switch

Specifications and Notes:

- 1) UL Approved with Label
- 2) Steel Construction
- 3) All Instrument Rated bases will have shorting ability to remove meter
- 4) Non-approved meter bases will not be energized by GDE

Instrument Transformers

- -All CT and PTs will be provided by GDE.
- -CT cabinet size will be 36 x 36 x 12 with a 3/4 inch plywood backing for mounting of instrument Transformers.
- -Steel or aluminum construction
- -CT cabinet must have provisions for a padlock.
- -Electrician will provide 5 wires, 5 different colors, (one of which will be white) for single phase.
- -No marking tape used on wires
- -All CT and PT wires will be #12.

Temporary Electric Service Policy

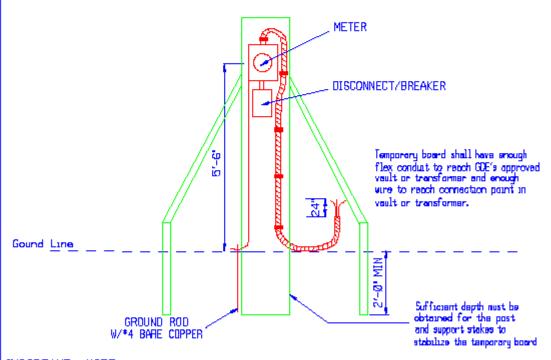
The Gallatin Department of Electricity (GDE) will provide electricity to customer owned temporary boards according to the following guidelines.

- 1. Temporary boards must be labeled with the address and lot number, and pass an electrical inspection by the State Electrical Inspector each time the board is installed or relocated.
- 2. Temporary boards must be underground fed temporary board unless approved by the GDE Engineering Department.
- 3. Temporary board location must be approved by the GDE Engineering Department.
- 4. Temporary boards that are approved for overhead installation shall be rigidly installed in the ground (2' min for post and braces) with braces or guys to adequately support the overhead service conductors and the weight of a 250lb man on a ladder leaned against the temporary board. There shall be an eyebolt attachment for GDE's service conductors. The attachment point and ground clearance to service wire shall meet the National Electric Code and National Electric Safety Code. The overhead temporary board shall not be installed more than 100' from GDE's approved pole.
- 5. Temporary boards requiring more than 100' of overhead service wire or when temporary construction is required, the total installation and removal cost will be paid by customer before work will begin. The cost to install a transformer to feed a temporary board will be \$200.00.
- 6. Customers or contractors will not remove a temporary board until the meter and service wires have been disconnected and/or removed.
- 7. GDE will charge a \$100.00 temporary board fee. This amount covers the installation and removal of the service wire. If additional trips are made, there will be extra charges. This charge does not include meter service charge and deposit.

GDE PH. # (615) 452-5152

GENERAL CONSTRUCTION NOTES:

- 1) The GDE engineer will spot the temporary board location upon request.
- 2) The temporary board shall be installed at least 3' from and no more than 18' from GDE's approved service point.
- 3) Temporary electric service boards are not to be installed on CDE poles or trees.
- 4) Each tempory board must be labeled with address and lot number, and pass an electric inspection by the State Electrical Inspector each time the board is installed or relocated.
- 5) The temporary board clearance from other objects must maet all NEC and NESC requirements.



IMPORTANT NOTE:

CUSTOMERS OR CONTRACTORS WILL NOT REMOVE A BOARD UNTIL THE METER AND THE SERVICE WIRES HAVE BEEN REMOVED.

GDE

UNDERGROUND TEMPORARY BOARD SERVICE STANDARD NUMBER

GDE Underground Primary/Secondary Specifications

Inspection	Requirements
Conduit	*Conduit will be inspected prior to backfilling ditch.
	*All work shall be performed to the GDE conduit drawings and details.
	* Primary conduit - 48" depth with minimum of 12" separation (vertical and
	horizontal) from other utilities.
	*Secondary conduit - 30" depth with minimum of 12" separation (vertical and
	horizontal) from other utilities.
	*90 degree elbows - 2" galvanized 24"radius
	- 4" galvanized 36"radius
	*Backfill, soil free of material that may damage conduit or gravel. If clean backfill
	is not available, #67 gravel will be used.
	*Conduit damaged before wire is installed must be replaced/repaired by
	developer.
	*All conduit Installed in existing GDE equipment must be coordinated with GDE.
	*Sleeves shall be installed to GDE Fiberglass Pad Detail and be level.
Final	*Concrete pad shall be poured to GDE Concrete Pad Detail.
	*500lb minimum pull string installed in conduits.
	*All property pins shall be installed and labeled.
	*Grade shall be within six (6) inches of final grade.

