

October 25, 2019

Tel.: (705) 431-4321

SERVICE LAYOUT REQUIREMENTS – 2020

1. General Information:

- a. Owner/Contractor is required to make payment prior to any work being performed.
- b. Installation of underground services will be according to the requirements below and as per USF standard 12-500 unless otherwise noted.
- c. Any existing services are to be disconnected/removed prior to any new service being energized.
- d. Owner/Contractor to arrange for ESA Inspection and for a disconnect/reconnect of service by InnPower personnel. (72 hour minimum notice required). (E.S.A. inspection dates are Tuesday's and Thursday's). Arrange Disconnect/Reconnect with Engineering at the above noted number. Please advise us of your meter #, service address and account #.
- e. No service will be connected without a Connection Authorization by ESA Inspection. For a Disconnect/reconnect, an ESA approved electrical contractor may have his service connected with an Inspection Order Number with Inspection to follow.
- f. Owner/Contractor to install a civic address on the building in a visible location from the road before any work will be commenced.
- g. Owner/Contractor is to arrange with Engineering for an inspection of their trench a **MINIMUM** of 48 hours before work begins.
- h. InnPower line staff will be responsible to pull in conductor, make all connections and cover the conductor with customer provided brick sand.
- i. Any changes to a signed layout must be authorized by InnPower Engineering staff.

2. Meter Base Installation:

- a. Owner/Contractor to install an approved 200 amp "JUMBO" size outdoor underground meter base. (Approved types on back of this sheet). The meter base is to be located as shown in the service layout. Standard height is 1.5 meters or 5 feet to 1.8m or 6 feet above **FINISHED** grade to the middle of the meter base (as per USF 12-500). The down pipe on the LINE side for 3/0 to 250 mcm cable is to be 63.5mm or 2.5 inches.
- b. Any 400 amp services are to be parallel runs of 250 mcm al with the line side downpipe to be 2x 75mm (3 inches).
- c. For Single meter bases with 3 conduit knockouts at the base, run conduit(s) to outer holes for line side wires.

3. **Pit Installation:**

- a. Owner/Contractor to excavate a 1M long X 1M wide X 1.2M deep pit at the meter base. Owner\Contractor is required to supply enough brick sand at this location to fill the pit. The owner is responsible for any removal/restoration of asphalt, concrete, shrubs or trees to ensure proper cable installation.

4. **Trench Installation:**

- a. Owner/Contractor to trench/install PVC ridged duct type DB2 to CSA 22.2 for all locations from the pole to the meter base pit. The depth of the trench shall be 1 M deep.
- b. All 400 amp services are to be a double run of 100mm (4 inches) conduit.
- c. All other service installations to be a minimum of 75mm (3 inches) duct for 3/0 and 100mm (4 inches) duct for 250 mcm cables.
- d. Each duct is to be roped with a minimum 6mm or 3/8" nylon or 3/4" poly pull tape(mule tape) for 3/0 cable and 1/2" nylon or 3/4"poly pull tape(mule tape) for 250 mcm or larger.
- e. The trench depth is to have 1M of cover throughout. A 0.9M or 5 foot sweep is required at the pole to 150mm or 6 inches above finished grade. A Red warning tape stating "*Caution Buried Cables*" is to be installed at half the depth of the pipe. The duct is to be installed to the edge of the pit.

5. **Special Circumstances:**

- a. For new underground services that require temporary power, enough conductor is to be provided and coiled in the pit for future extension to the final location. For the final service installation, when excavating, Owner/Contractor is to hand-dig within 1 foot (12 inches) of coiled conductor with InnPower Engineering on site. InnPower line staff is to complete a resistance test of the cable (Megger) prior to connection and energization of the final service.

INNPAPER CORPORATION APPROVED METER BASES

MAKE	MODEL	AMP RATING	VOLT RATING	# OF JAWS	APPLICATION
MICROELECTRIC	BS2-TV	200	600	4	RESIDENTIAL 200AMP UNDERGROUND (JUMBO SIZE)
CUTLER HAMMER	LU2	200	600	4	
HYDEL	EK400RO	200	600	4	
MICROELECTRIC	BE1-V	100	600	4	RESIDENTIAL 100AMP OVERHEAD
CUTLER HAMMER	K1-N	100	600	4	
HYDEL	SE400PW	100	600	4	
MICROELECTRIC	BS2-TCV	200	600	4	RESIDENTIAL 200AMP OVERHEAD
CUTLER HAMMER	LM2	200	600	4	
HYDEL	EK400RO	200	600	4	
MICROELECTRIC	JS4B-200/5 **	400	120/240	5	RESIDENTIAL, COMMERCIAL 400AMP SERVICE SINGLE PHASE
CUTLER HAMMER	TCC5-2-TS **	400	120/240	5	
** AUTOMATIC BYPASS NOT ACCEPTABLE. ** MUST BE EQUIPPED OR HAVE PROVISION FOR MANUAL TEST SWITCHES					
MICROELECTRIC	CT105 **	20	600	5	SINGLE PHASE TX RATED SERVICE AND C.M. SERVICE
CUTLER HAMMER	TSU5 **	20	600	5	
HYDEL	CTS405PW **	20	600	5	
** AUTOMATIC BYPASS NOT ACCEPTABLE. ** MUST BE EQUIPPED OR HAVE PROVISION FOR MANUAL TEST SWITCHES					
MICROELECTRIC	PL17-INTCV *	100	600	7	3 PHASE SMALL COMMERCIAL
CUTLER HAMMER	P17-0-IN1 *	100	600	7	
HYDEL	SFC703PW *	100	600	7	
* ALL SOCKETS TO COME WITH INSULATED NEUTRAL BLOCKS					
MICROELECTRIC	PL27-INTCV *	200	600	7	3 PHASE SMALL COMMERCIAL
CUTLER HAMMER	P27-0-IN2 *	200	600	7	
HYDEL	STC703PK *	200	600	7	
* ALL SOCKETS TO COME WITH INSULATED NEUTRAL BLOCKS					