SERVICE ENTRANCE - GROUP

Horizontally Ganged, 2-6 Position
100 and 200 Amp, Single Phase, 3 Wire

USE: Installation on a multiple meter project requiring not more than six meters for overhead or underground services.

PREVIOUS REVISION	ORIGINATED	PREVIOUS NUMBER
10-01-09	06-94	ER 1-156-A, 12-13-93

LATEST REVISION: Updated meter socket labeling specification and general revisions to rest of standard.

REFERENCE: IEC/NEC (Indiana Electrical Code/National Electrical Code), latest edition

SPECIFICATION:

1. GENERAL:

1.1 The trough shall be constructed of galvannealed steel or aluminum alloy and shall be weather-proof and sealable.

1.2 Each meter position shall be a ringless type and shall be sealable.

1.3 All terminals shall be of a type to accommodate copper or aluminum wire.

1.4 Meter socket jaws should be spring reinforced to maintain adequate tension on the meter blades, to prevent heating of the jaws.

1.5 All bussing shall be properly spaced (National Electrical Code, Section 408.56), and/or insulated from another hot bus or ground. Bussing shall be secured against movement when a socket jaw is changed or when connecting line or load side conductors.

1.6 Concentric knockouts shall be provided for line, load, and grounding conductors.

1.7 The Customer shall supply all troughs, and service entrance conduit.

2. INSTALLATION AND MAINTENANCE:

2.1 This installation is to conform with the Rules and Requirements of any recognized legal inspection service in effect in the community and satisfactory to the Company.

2.2 All wiring and equipment for the overhead service entrance shall be owned, installed and maintained by the Customer.

2.3 The meter trough shall be level and securely mounted to a substantial building, pole or other type mounting structure satisfactory to the Company.

2.4 The meter installation shall be adequately grounded in accordance with NIPSCO Standard ER 7-500, Grounding.

2.5 Each meter socket (including the inside of the socket), and it's respective main disconnect, shall be labeled in a distinctive, permanent, and legible manner, identifying the location they are to serve (Apt #, Unit #, etc.). The labels must be either engraved nameplates or adhesive-type labels at least one inch high. Felt tip pens and label maker tape **are not** considered permanent marking. The location itself, shall also be labeled with it's respective identification marking. Meters shall not be installed and energized until this identification has been completed. The Company will assume no responsibility for the accuracy of matching premise location as indicated on the meter socket and main disconnect switch.

2.6 For underground services the conduit for the service conductors shall extend from the meter through to a point 18 inches below final grade to enclose and protect the service conductors. The conduit is not to be used as a support for the service mounting structure.

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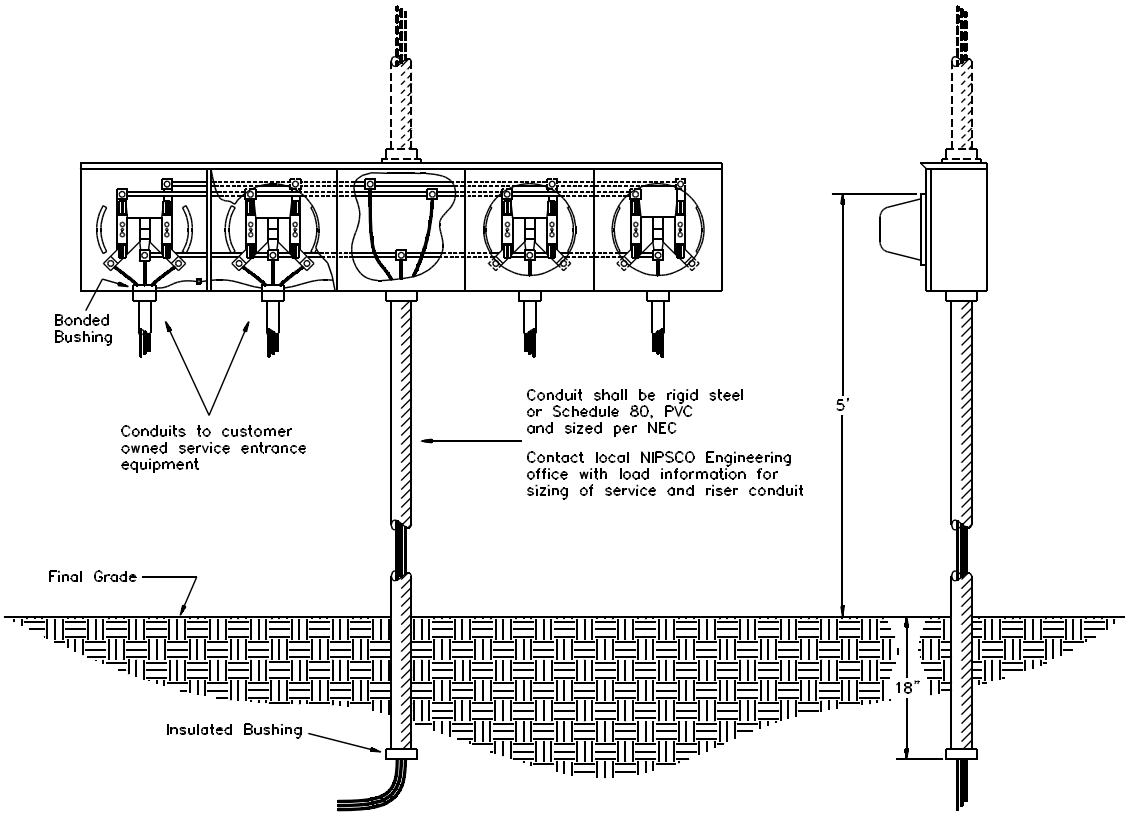
2.7 The Company shall provide, own, install and maintain the secondary underground service conductors from the padmount transformer to the metering location in accordance with NIPSCO standards covering underground services.



Typical installation--4 meter positions

Grounding: Refer to ER 7-500
Note: 100 amp units have knockouts located at left and right end of unit for service entrance conduit.

3. APPROVED MANUFACTURERS, 100 AMPERE SOCKET TROUGH:

3.1 Each meter position shall be rated at least 100 amperes and sealable.
3.2 The main bus shall be rated at least 200 amperes.

COMPANY APPROVED EQUIPMENT

Socket Positions	Manufacturer	Line Connector Cu/Al	Catalog Number
2	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	250 KCM	UHT-2R1421C
	Landis & Gyr (Siemens) (Note 3)	350 KCM	UA2311-OPQG
	Milbank	250 KCM	L572-XL-KK
3	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	250 KCM	UHT-3R1421C
	Landis & Gyr (Siemens) (Note 3)	350 KCM	UA3311-OPQG
	Milbank	250 KCM	L573-XL-KK
4	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	350 KCM	UHT-4R1431C
	Landis & Gyr (Siemens) (Note 3)	350 KCM	UA4311-OPQG
	Milbank	350 KCM	L574-XL-KK
5	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	350 KCM	UHT-5R1431C
	Milbank	350KCM	L575-XL-KK
6	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	350 KCM	UHT-6R1431C
	Milbank	350 KCM	L576-XL-KK

NOTES:
1. Contact manufacturer for hub plate or hub size suffix designation as necessary for installation.
2. Durham products will also be marketed by Cutler Hammer, Midwest Electrical Products and Square D using the Durham catalog number except with a -CH, -MEP, or -SQD identifying suffix, and will be identical to the Durham product with the same base catalog number and approved for use in NIPSCO's service territory.
3. Siemens products will have a "S" in front of the Landis & Gyr catalog number and is approved for use in NIPSCO's service territory.

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4. APPROVED MANUFACTURERS, 200 AMPERE SOCKET TROUGH:

4.1 Each meter position shall be rated at least 200 amperes and sealable.
4.2 The main bus shall be rated at least 300 amperes.

COMPANY APPROVED EQUIPMENT

Socket Positions	Manufacturer	Line Connect or Cu/Al	Catalog Number
2	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	500 KCM	UHT-2R2352U
	Landis & Gyr (Siemens) (Note 3)	350 KCM	UA2717-YPQG
	Milbank	600 KCM	U1252-R-KK-K1541
3	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	500 KCM	UHT-3R2352U
	Landis & Gyr (Siemens) (Note 3)	600 KCM	UA3717-YPQG
	Milbank	600 KCM	U1253-R-KK-K1541
4	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	500 KCM	UHT-4R2352U
	Landis & Gyr (Siemens) (Note 3)	2 - 600 KCM	UA4719-YPQG
	Milbank	600 KCM	U1254-R-KK-K1541
5	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	2 - 500 KCM	UHT-5R2392UU
	Landis & Gyr (Siemens) (Note 3)	2 - 600 KCM	UA5719-KPQG
	Milbank	600 KCM	U1255-R-KK-K1541
6	Durham (Cutler Hammer, Midwest Electrical Products, Square D) (Note 2)	2 - 500 KCM	UHT-6R2392UU
	Landis & Gyr (Siemens) (Note 3)	2 - 600 KCM	UA6719-KPQG
	Milbank	600 KCM	U1256-R-KK-K1541

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