

# BRYAN MUNICIPAL UTILITIES OVERHEAD AND URD SERVICE SPECS

## GENERAL SPECIFICATIONS FOR SERVICE

1. These specifications describe the installation of a residential meter base on a house, and shall supersede all former Bryan Municipal Utilities (BMU) specifications. All work must be installed in accordance with the National Electric Code, BMU or any local or state laws in existence at the time of installation. All work shall be in accordance with specifications and drawings as shown attached and shall be subject to the acceptance of an authorized representative of BMU.
2. BMU reserves the right **NOT** to connect the residential electric service to BMU's facility, if the BMU representative considers the installation not to be installed according to BMU's specifications.
3. All materials, (**except meter socket which customer shall purchase through BMU**), will be furnished and maintained by customer in a location that is acceptable to BMU.
4. Meter socket with main breaker will be solidly mounted to the side of residence.
5. All fittings or hardware shall be cast bronze, brass, galvanized, or otherwise made corrosion resistant, and must be in good condition.
6. Customer shall leave a minimum 24" of wire from weather head, and the neutral shall be marked with white tape to differentiate it from other current carrying conductors.
7. Customer shall supply a 5/8" minimum eyebolt at the point of attachment to any metal building.
8. Grounding conductor to ground rod shall be no smaller than #4 cu. The conductor shall be continuous from the top ground lug of the meter to the ground rods. The conductor shall be securely strapped or stapled to the building to protect it from mechanical injury. Otherwise install the conductor in 1/2" conduit and securely fasten it to the wall.
9. Ground rod shall be a Copper weld 5/8" x 8' and driven in the ground to a point where the ground rods clamp is exposed at surface level. **Galvanized ground rods are NOT permissible.**
10. Customer shall be responsible for calling the **Ohio Utilities Protection System (OUPS) 1-800-362-2764** before any ground rods are installed.
11. Drip loops or point of attachment (**WHICHEVER IS LOWEST**) shall be at least 12'-6" from final grade on overhead services and 5'-6" from final grade on URD Meter Sets.
12. Meters sockets shall not be installed inside porches (screened or open) or inside any carport, garage or any enclosed structures.
13. Overhead and URD Meter socket placement locations and trench locations are to be specified by BMU Representative.

14. If there is more than one meter to the premises, each meter shall be permanently identified by the Customer to properly identify that portion of the premises being served. Identification shall include the unit number and or letter and the street address. Metal stamping, metal tags, or engraved Vinyl tags are acceptable. **Painted or permanent marker identification tags are not acceptable. Identification tags need to be installed before electric service(s) are energized.**
15. The Customer installs, owns and maintains the service entrance equipment in accordance with BMU's applicable rules and requirements. **There are no exceptions.**
16. BMU's service drop will terminate at the first point of contact on the building or structure supporting the service entrance equipment. The point of service drop attachment on a building shall be located on the exterior wall facing the direction determined by BMU Representative.
17. Customer's point of attachment must be strong enough to support the service drop (typically 600 lbs. tension) and high enough to provide NESC Code clearance for the service drop and drip loop above the underlying areas, including the roof.
18. No foreign attachments shall be permitted on a service riser conduit.

#### **FOR TEMPORARY SERVICE POLES**

1. The electric service for all temporary construction shall be equipped with a rain-tight enclosure, and dual element fuses or circuit breakers. **(NO PLUG TYPE FUSES ALLOWED.)** The temporary pole on which the meter loop and rain-tight enclosure are mounted shall conform to the attached drawing. **Exceptions!** (1) The minimum setting depth may be reduced to three feet with 2x4 min. bracing mounted at 2/3 height of the point of attachment, secured with 2x4 min. stakes, and cross-braced with a 2x4 min. brace. (2) For temporary construction only a 4x4x16 unspliced treated pole may be substituted for the 6 inch minimum penta-treated or equivalent round pole. (3) For temporary construction ONLY, the conductors used in 100 amp service shall be no smaller than #6 THHN cu or #4 THW cu. Only GFCI receptacles to be used as part of the temporary service installation.
2. GFCI receptacles used on temporary service poles shall be installed in a rain-tight box.
3. Temporary service poles shall have a rain-tight disconnecting device sufficient for voltage employed and for the current, which must be interrupted.

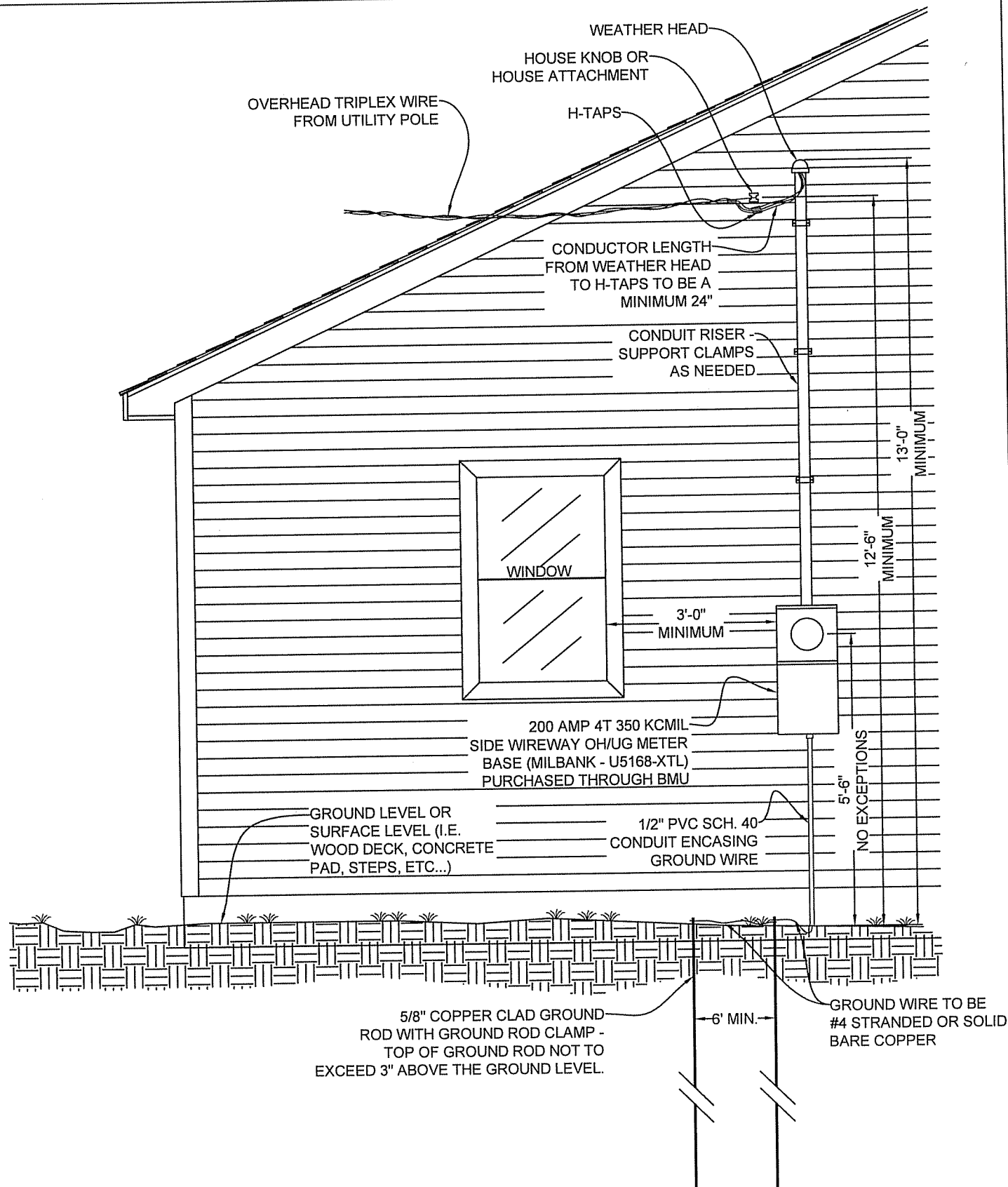
## 200 AMP

1. 200 amp meter sockets with circuit breaker disconnect (to be purchased through BMU)
2. Conductors used in 200 amp service shall be:

### CONDUCTOR CHART

Size of Customers Main Panel Disconnect	Minimum Size Conductor		Minimum Size Conduit
	Bottom of Meter Socket to Customers Main Breaker	Top Side Of Meter Socket	
60 amp	Not Allowed	Not Allowed	NA
100 amp	#2 AL or #2 CU	4/0 AL or 2/0 CU	2"
125 amp	#2 AL or #2 CU	4/0 AL or 2/0 CU	2"
200 amp	4/0 AL or 2/0 CU	4/0 AL or 2/0 CU	2"

3. Neutral conductors may be one size smaller than phase conductors.
4. 200 amp service piercing the roof needs to have 2 inch RIGID METAL CONDUIT (GALVANIZED STEEL PIPE) from meter socket to the weather head.
5. Conduit from meter socket to the weather head shall be secured by a minimum of 2 straps.
6. **WEATHERHEADS** shall be located high enough to provide the required vertical clearance of Bryan Municipal Utilities service drop cable between Bryan Municipal Utilities pole and the weather head.
7. When the weather head is to be extended above the roof, the conduit shall be 2" minimum diameter and shall be continuous without joints. If joints are necessary only threaded connections below the roof line will be approved. All clearances specified herein are minimum safety clearances prescribed by the National Electrical Safety Code and the National Electrical Code.
8. When the weather head is extended greater than 3' above the roof, riser conduit must be guide to support the horizontal pull of BMU's service drop.
9. All installations to be in accordance with the National Electric Code.



OVERHEAD METER SET ON BUILDING

BRYAN MUNICIPAL UTILITIES  
STANDARD

# MINIMUM RESIDENTIAL OVERHEAD SERVICE SPECIFICATIONS

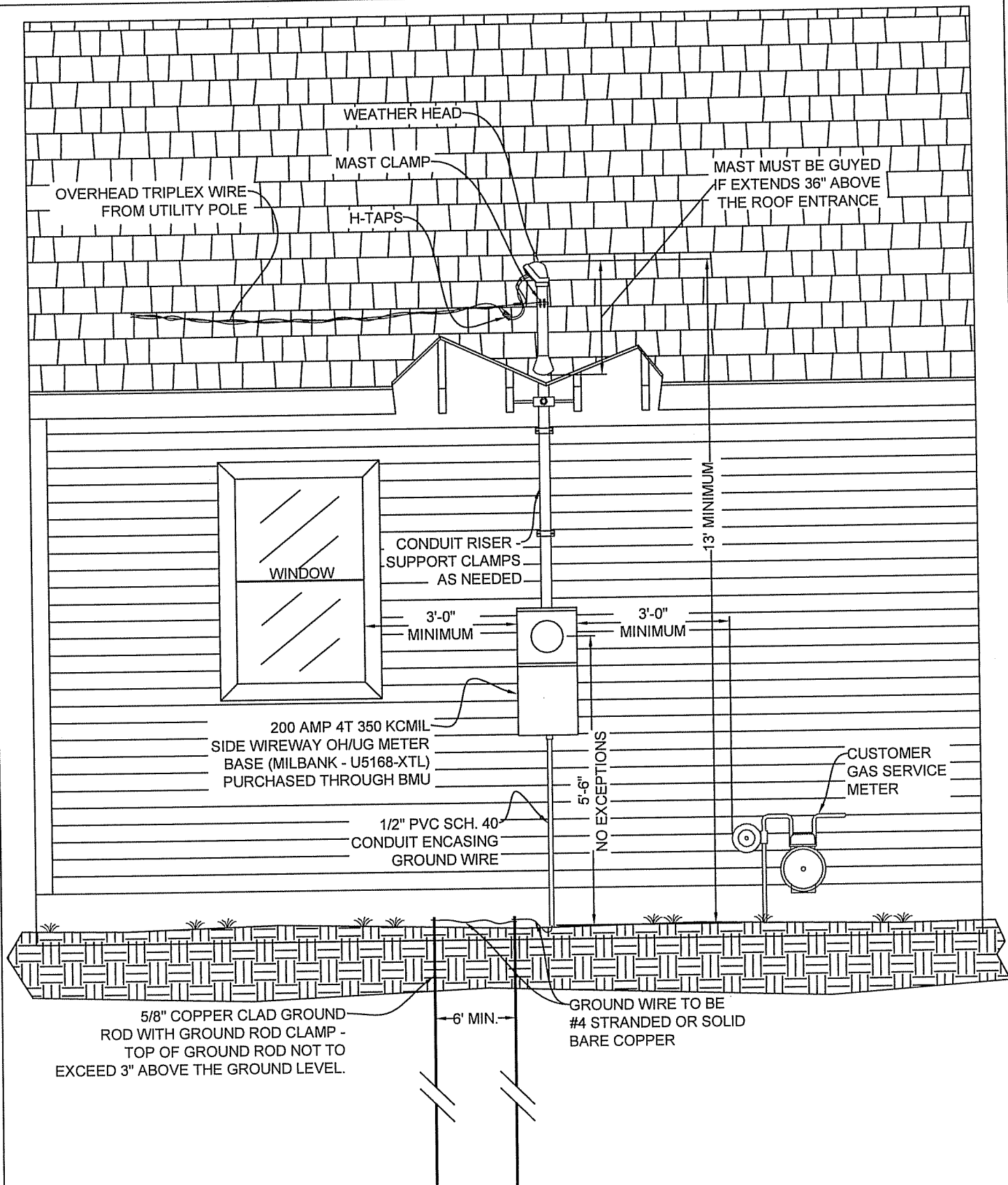
DATE

4-10-2007  
REV. 1- 2-24-14

APPROVED BY

BDC  
ALS

Construction Standard  
MTR1



OVERHEAD METER SET ON BUILDING THROUGH ROOF LINE

BRYAN MUNICIPAL UTILITIES  
STANDARD

# MINIMUM RESIDENTIAL OVERHEAD SERVICE SPECIFICATIONS

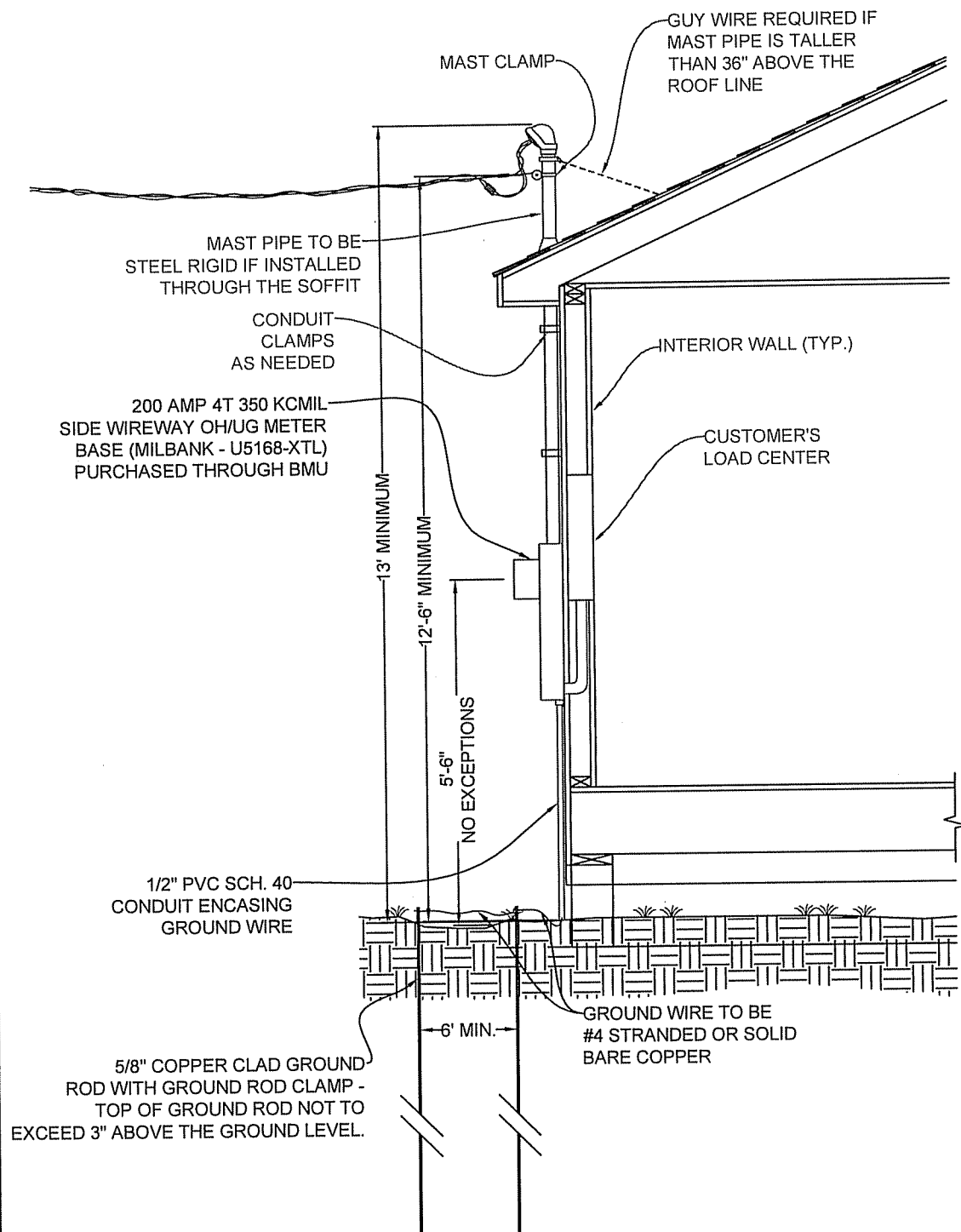
DATE

4-10-2007  
REV. 1-2-24-14

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Construction Standard  
MTR2



OVERHEAD METER SET ON BUILDING THROUGH ROOF LINE

BRYAN MUNICIPAL UTILITIES  
STANDARD

# MINIMUM RESIDENTIAL OVERHEAD SERVICE SPECIFICATIONS

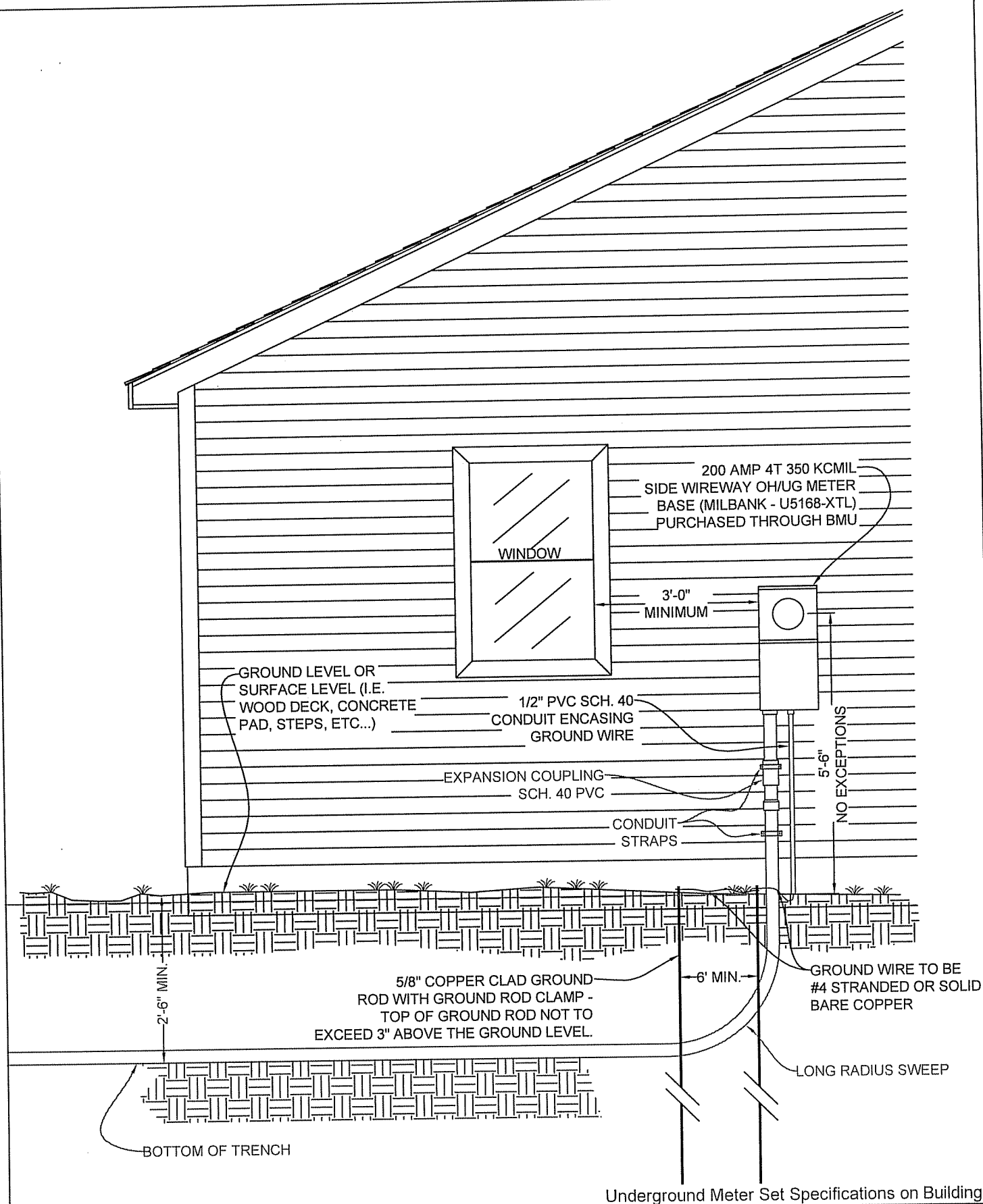
DATE

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REV. 1 2-24-14

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Construction Standard  
MTR2



BRYAN MUNICIPAL UTILITIES  
STANDARD

## MINIMUM RESIDENTIAL UNDERGROUND SERVICE SPECIFICATIONS

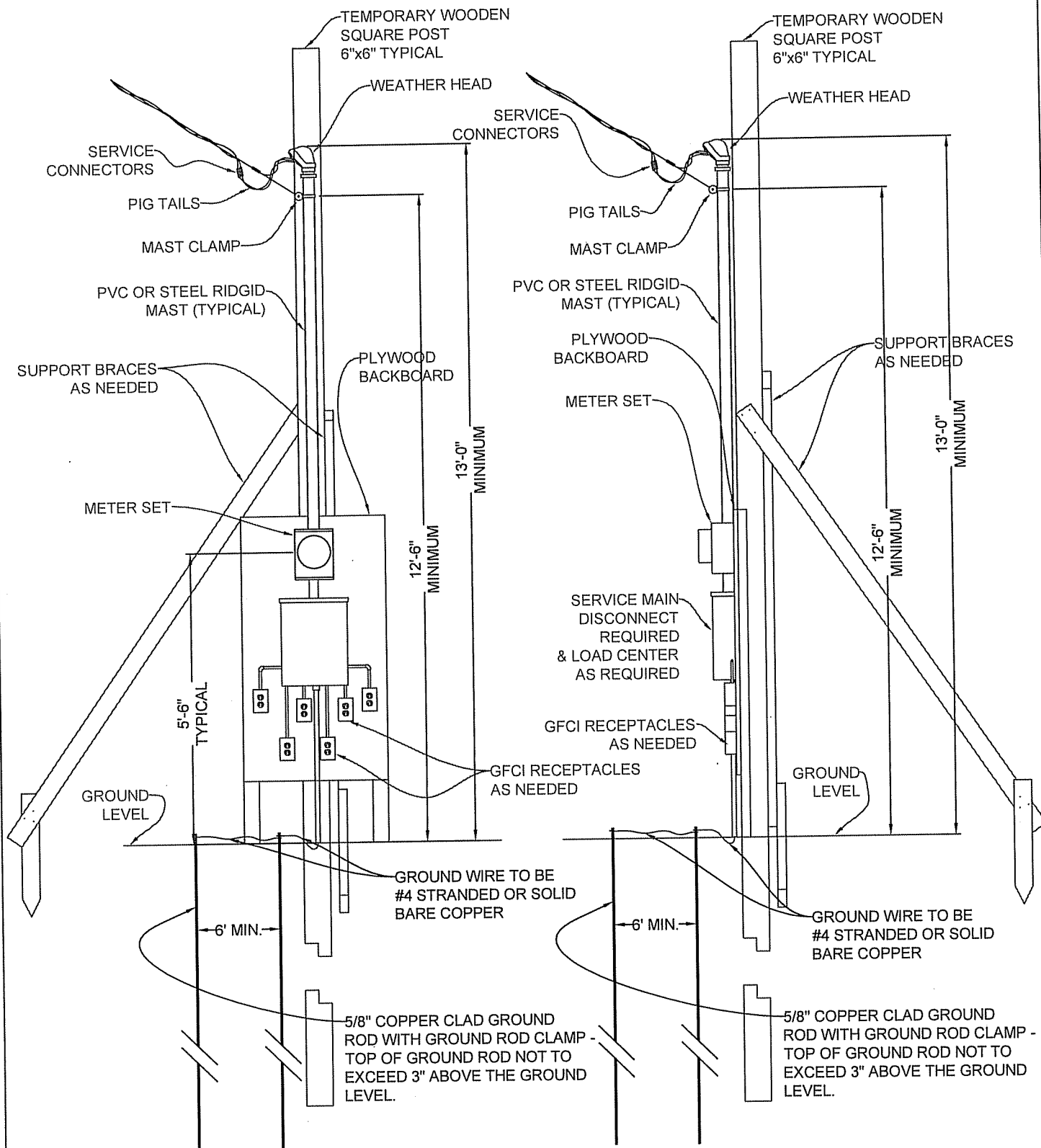
DATE

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MTR1



TEMPORARY ELECTRIC SERVICE  
OVERHEAD SERVICE FEED

BRYAN MUNICIPAL UTILITIES  
STANDARD

### MINIMUM TEMPORARY OVERHEAD SERVICE SPECIFICATIONS

DATE

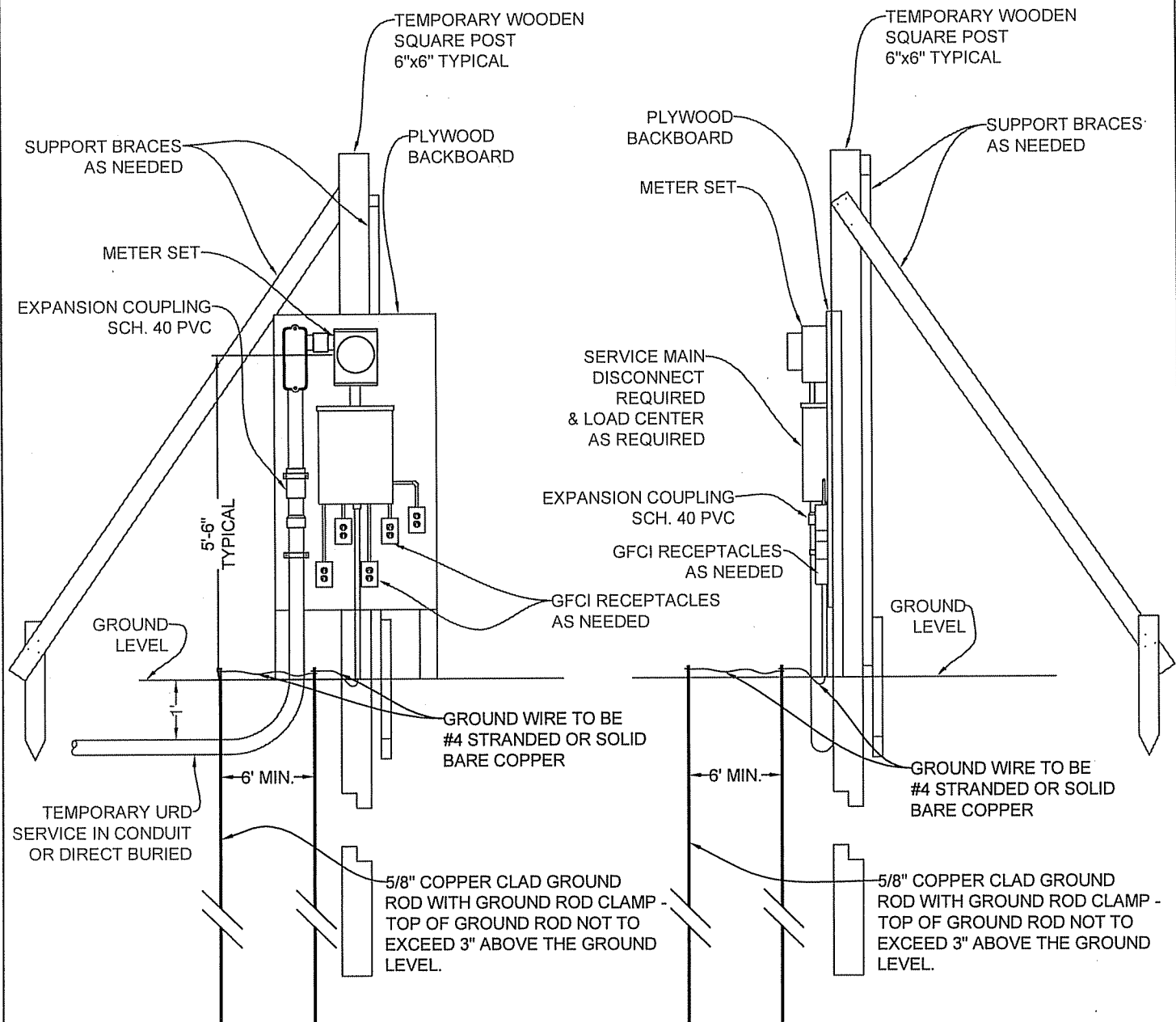
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TEMPORARY ELECTRIC SERVICE  
UNDERGROUND SERVICE FEED

BRYAN MUNICIPAL UTILITIES  
STANDARD

# MINIMUM TEMPORARY UNDERGROUND SERVICE SPECIFICATIONS

DATE

4-10-2007  
REV. 1- 3-10-14

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Construction Standard  
MTR1

(amp)	CIRCUIT BREAKER	RATING LABEL
200	1119072	1124259
150	1120763	1127359

SUFFIX	B & B ASSY
NONE	1127156
-KK	1126993

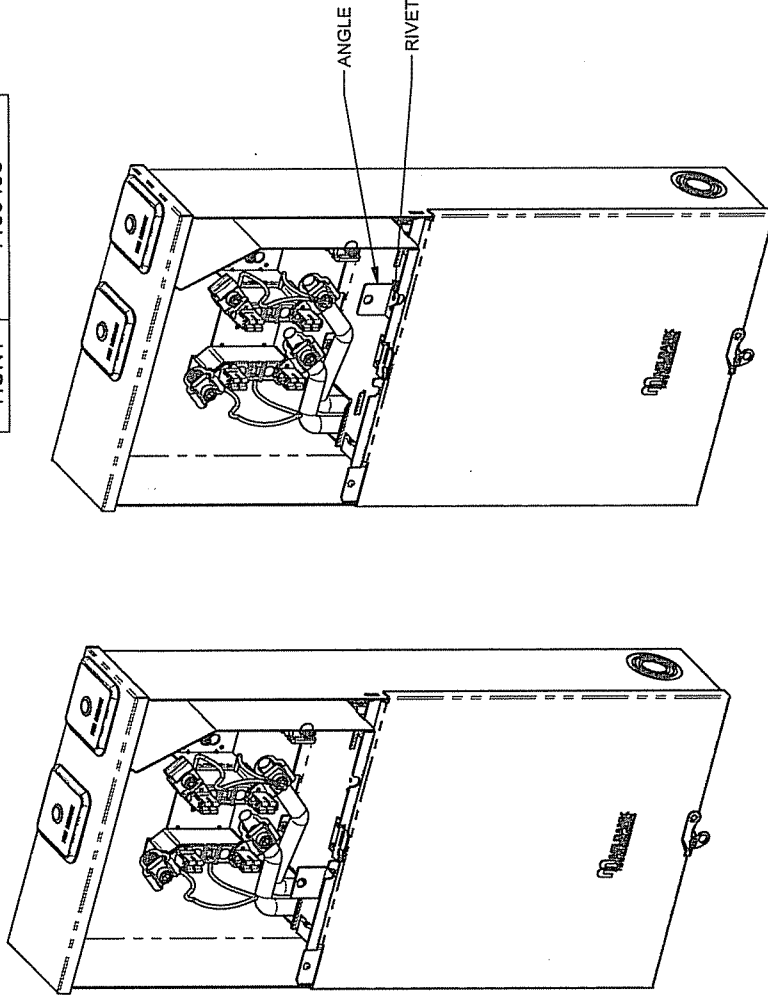
SUFFIX	LOWER WIREWAY
NONE	1122698
-HUNT	1158456

SUFFIX	WIREWAY COVER
NONE	1122701
-RWW	1155791

SUFFIX	FRONT ASSY
NONE	1124651
-IL	1129886
-BL	1124651
-BLG	1124651
-PL	1129715

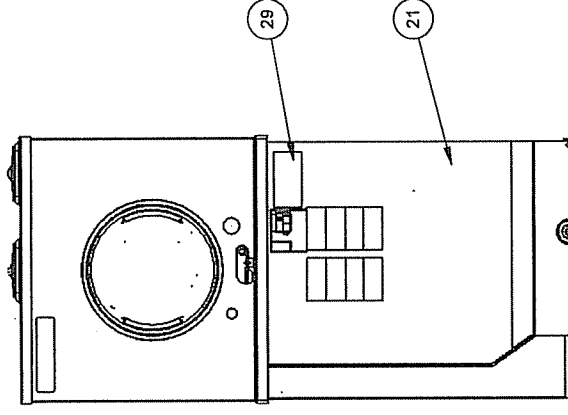
WHEN THE FOLLOWING CATALOG NUMBERS ARE SOLD  
REPLACE THE CATALOG STAMP ON THE OUTSIDE OF  
BOX WITH THE LISTED LABEL:

CATALOG NUMBER	LABEL #
U5168-XTL-150-ALT	1138424
U5168-XTL-200-ALT	1138425
U5168-XTL-150-KK-ALT	1132058
U5168-XTL-200-KK-ALT	1132059



-BL CONFIGURATION

-BLG CONFIGURATION



SUFFIX	ANGLE	RIVET
NONE	1000085 QTY. 0	1000047 QTY. 2
-BL	1	4
-BLG	1	4

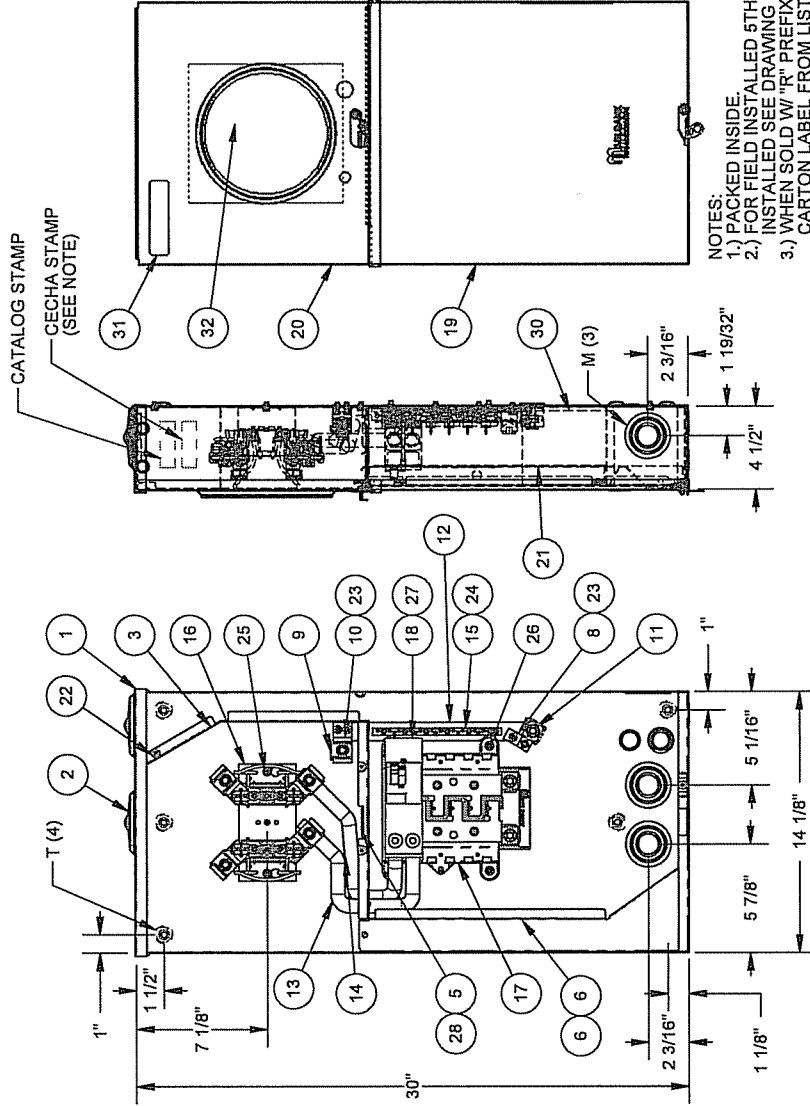
Material: 16 GA. STEEL		<b>MILBANK</b> General Offices: Kansas City, MO	
Shear Die#:		200 AMP RINGLESS AT 350 kcmil	
Finish:	MILBANK LIGHT GRAY	SIDE WIREWAY OHUC METER MAIN	
Part No.:		22 kA Short Circuit Current Rating	
Tolerances: Unless Specified Otherwise X.X ±.1 X.XX ±.03 X.XXX ±.015 X.XXX ±.2		Third Angle	
Scale:	NTS	Catalog No.:	U5168-XTL-(amp)
Drawn By:	JRS	Customer:	
Checked By:		Drawing No.:	5168
Approved By:		Date:	2-3-04 Sheet 2 of 2

REV. DATE DESCRIPTION  
L4 7/19/13 MOVED RATING LABEL TO RIGHT SIDE OF BACK. (ECO #24232)

CO CONFIGURATIONS

A	1/4, 1/2 CONC.
C	1/2, 3/4 CONC.
D	1/2, 3/4, 1 CONC.
M	3/4, 1, 1 1/4, 1 1/2, 2 CONC.
P	1, 1 1/4, 1 1/2, 2, 2 1/2 CONC.
S	1 1/4, 1 1/2, 2, 2 1/2, 3 CONC.
T	UL MOUNTING EMBOSS

SEE SHEET 2 FOR ALL CHARTS



- NOTES:
- 1.) PACKED INSIDE.
  - 2.) FOR FIELD INSTALLED 5TH TERMINAL ASSY ORDER CATALOG #K5T. FOR FACTORY INSTALLED SEE DRAWING #5168-31.
  - 3.) WHEN SOLD W/ "R" PREFIX, UNIT TO BE SINGLE PACKED IN CARTON #1124902. MDC TO APPLY CARTON LABEL FROM LIST BELOW TO MIDDLE OF CARTON SIDE PANEL:  
R5168-XTL-200: #1130599  
R5168-XTL-200-KK: #1130600  
R5168-XTL-200-KK-5T: #1137279  
R5168-XTL-200-KK-PL: #1158955
  - 4.) WHEN SOLD WITH -CECHA SUFFIX, STAMP "CECHA APPROVED" PER DRAWING #1162824 USING INDELIBLE INK #1162818.

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	1122711	SHELL WELDMENT
	1	1122695	BACK
	1	1122718	TOP
	1	1124648	BOTTOM
2	2	1002830	CLOSING PLATE ASSY. (SEE NOTE 1)
3	1	1122702	WIREWAY, UPPER
4	1	1124354	CENTER BARRIER
5	1	1026494	LATCH
6	2	(SEE CHART)	WIREWAY COVER
7	S/C	1000085	ANGLE
8	1	1126892	CONNECTOR 2/0-14
9	1	1000414	350 KC/MIL INT. HEX
10	1	1000364	CONNECTOR, 350 KC/MIL G/S
11	1	1002790	350-6 KC/MIL SLIP-ON LUG
12	1	1122709	NEUTRAL BUS
13	1	1124344	WIRE-CO 3/0 11-3/4" BLK THHN
14	1	1124345	WIRE 3/0 13.50 BLK THHN
15	1	1025343	NEUTRAL CONNECTOR
16	1	(SEE CHART)	BLOCK & BRIDGE ASSY
17	1	1122660	INTERIOR ASSY
18	1	(SEE CHART)	CIRCUIT BREAKER
19	1	1122710	LOWER FRONT ASSY
20	1	(SEE CHART)	FRONT ASSY, METER
21	1	1122705	DEAD FRONT
22	5	1001230	SCREW, 10-32 X 5/16
23	3	1001311	SCREW, SHW-SC #10-32 X 1/2 ST
24	2	1123003	SCREW 10-32 X 1
25	2	1000183	SCREW 12-24 X 5/16
26	4	1008132	SCW 12-24 X .500 ST
27	1	1135946	SCREW, 6-32 X 2.5 XP-SC
28	S/C	1000047	RIVET (SEE NOTE)
29	1	1025112	LABEL SERVICE DISCONNECT
30	1	(SEE CHART)	RATING LABEL
31	1	1000064	LABEL, WARNING
32	1	1000158	WIREMAN PAD
33	1	1025123	LATCH PAD (1-PER)
34	1	1124902	CARTON (NOT SHOWN)

Material: 16 GA. STEEL		<b>MILBANK</b> General Offices: Kansas City, MO	
Shear/ Die#: _____	Finish: MILBANK LIGHT GRAY	Title: 200 AMP RINGLESS 4T 350 KC/MIL SIDE WIREWAY OHUG METER MAIN	
Part Wt.: _____		Catalog No.: R or U5168-XTL-(amp)	
Tolerances: Unless Specified Otherwise XXX .03 XXX .015 X .2		Customer: _____	
Scale: _____	Drawn By: JRS	Checked By: _____	Drawing No.: 5168
			Date: 2-3-04 Sheet 1 of 2

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L4	7/19/13	MOVED RATING LABEL TO RIGHT SIDE OF BACK. (ECO #24232)