

S-ZZ Protection of AMI Meter Devices

Automated Meter-reading Infrastructure (AMI) aids DWU in the reading of water meters. These devices are intended to provide certain necessary data to the City regarding billing and water use.

The CONTRACTOR shall protect and prevent damage to existing structures and other utilities as specified in Item 107.23. Existing Structures, Facilities, and Appurtenances, from the latest edition of the *North Central Texas Council of Governments Public Works Construction Standards*. The definition of structures in Item 107.23 shall include all AMI Devices, including terminal points, appurtenances, antennae, lids, and connecting cables.

Prior to the commencement of construction, the CONTRACTOR and the OWNER shall conduct a preliminary site visit to discuss the protection of all structures, including any AMI devices located within the project boundaries. The OWNER may invite representatives from various affected departments. The result of the preliminary site visit will be documented; said document to be signed by both the OWNER and the CONTRACTOR. The preliminary site document must list the specific locations and descriptions of the various structures that shall be protected during construction. It shall be the responsibility of the CONTRACTOR to prepare this list and confirm it with the OWNER.

Possible damage to the AMI Devices includes, but is not limited to: Loss of any functionality, including the ability to transmit required data; the physical loss or misplacement of the AMI Device; the destruction, loss, or misplacement of any appurtenances including Meter “Cans”, and Meter Lids. Once the construction of the project is complete, the CONTRACTOR is responsible for returning the existing DWU AMI system located within the confines of the project limits to “as good or better” condition as prior to construction. However, because the AMI system is a proprietary system that includes special training and tools, the CONTRACTOR is not allowed to make the necessary repairs. The CONTRACTOR shall pay the following in the event of any damage to the AMI System in order to have the damage repaired by a licensed and/or trained vendor:

Type	Scenario	Costs
1	Damage to Lost End Point	\$320.00
2	Damaged, Wrong, or Lost AMI Lid	\$120.00
3	Damaged or Lost AMI with Inline Electrical Connector (1” or smaller meters)	\$130.00
4	AMI Register (Above 1” Meter)	\$200.00

Once AMI damage is discovered or reported, the OWNER will issue a notice to pay for damages to the CONTRACTOR. The CONTRACTOR shall have up to 30 calendar days to pay for any necessary repairs. Payment for damages shall be made by company check or other negotiable means acceptable to the Dallas Water Utilities. Payment shall be made in person and during normal operating hours to:

DWU Meter Reading Operations
1500 Marilla L2EN
Dallas, TX 75201
214-670-5537

Failure to pay for damages as described above will result in payments for work performed being withheld until all payments are made as specified in Item 109.4 Payment Withheld and Item 109.5 Monthly Estimate, Partial Payments, Retainage, Final Inspection, Acceptance and Final Payment from the latest edition of the *North Central Texas Council of Governments Public Works Construction Standards* as modified by the *Latest edition of the City of Dallas Addendum thereto*.

There is no separate pay item for this provision.

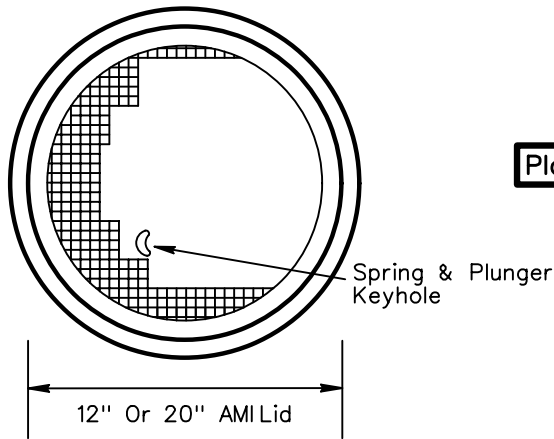
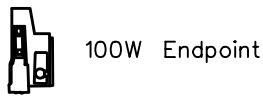
Installation For Advanced Metering Infrastructure (AMI) Meter

1. The Contractor Shall Not Remove, Damage, Or Otherwise Disturb The AMI Meter Endpoint Components Except By Direction Of The Meter Reading Operation (MRO) Technician. The Installer Shall Be Liable For The Replacement Cost Of Any Lost Or Damaged AMI Components.
2. For Meters 2" Or Smaller:
 The Contractor Shall Install A New Meter Box With A New Meter AMI Lid For Water Meters 2" And Smaller In Existing And Proposed AMI Areas With The Following Configuration As Applicable:
 - For 5/8" to 1" Meters: 12" Water Meter AMI Lid As Per the Approved Material List.
 - For 1 1/2" to 2" Meters: 20" Water Meter AMI Lid As Per the Approved Material List.
 The Contractor Shall Also Return The Existing AMI Lids From Existing AMI Area TO DWU MRO For All Meters 2" And Smaller.
- For Meters 3" Or Larger:
 The Contractor Shall Either Connect To The Existing Meter Vault Or Construct A New Meter Vault As Specified On The Plans.
3. All Meters In The Existing And Proposed AMI Area Shall Be AMI Ready Meters As Furnished By DWU. A Non AMI Ready Meter Shall Be Replaced With An AMI Ready Meter By DWU.
4. The Contractor Shall Contact DWU MRO Five (5) Working Days In Advance At 214-670-5537 And By Email At DWUMRO@dallascityhall.com Before Any Removal, Disconnection, Reconnection, Or Installation Of AMI Endpoint Components.

REFER TO PAGES 206C & 206D

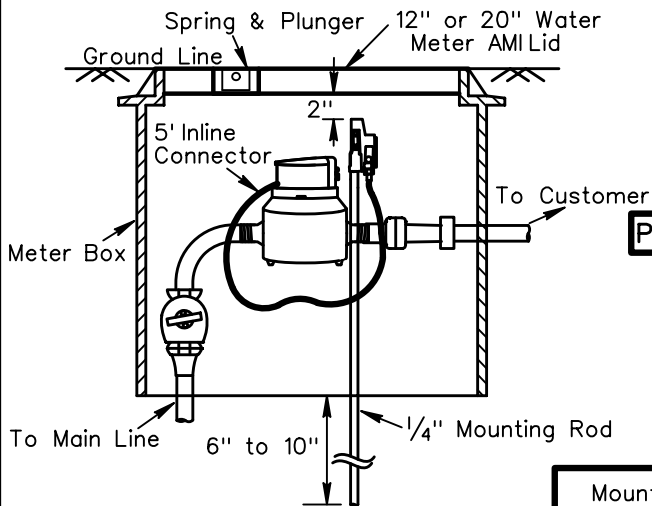
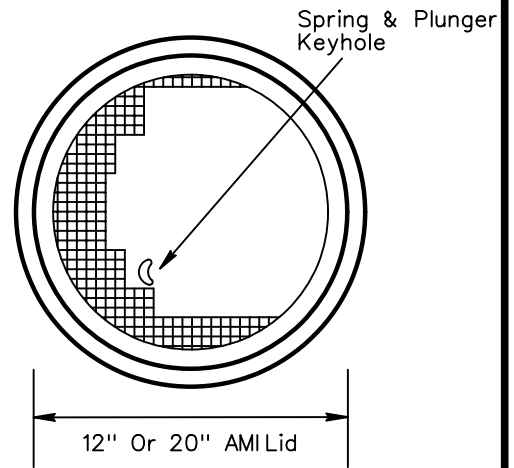
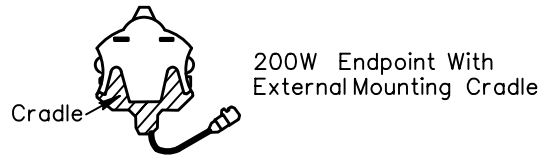
Installation Requirements For AMI Meter		DWU	(PAGE No.) 206B
		DATE MAY 2012	

Fixed Network Or Mobile System
(100W Endpoint Or Approved Equal)



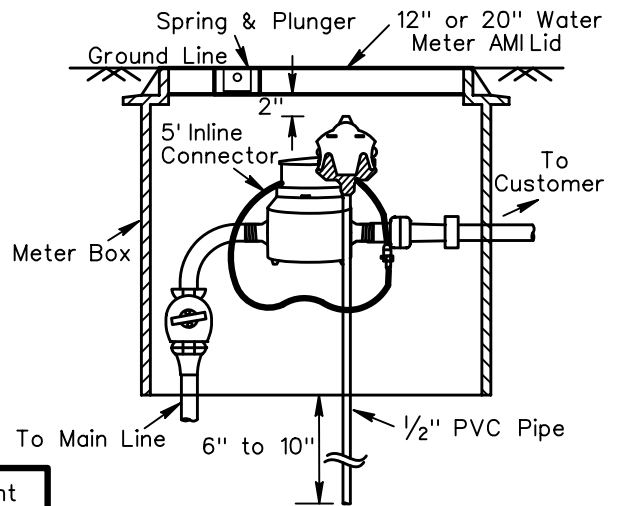
Plan View

Fixed Network
(200W Endpoint Or Approved Equal)



Profile View

Finished Installation With 100W Endpoint Configuration



Finished Installation With 200W Endpoint Configuration

Mount The Endpoint As Near To The Center Of The Meter Box As Possible Without Touching The Meter

REFER TO PAGES 206B & 206D

AMI Meter Installation Details
For 2" Or Smaller Meters

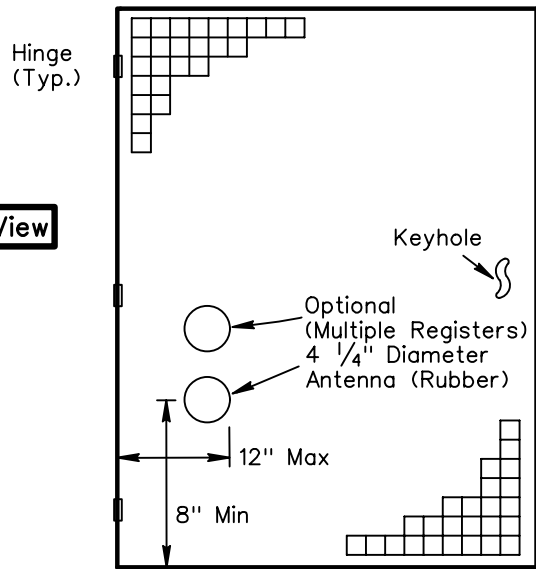
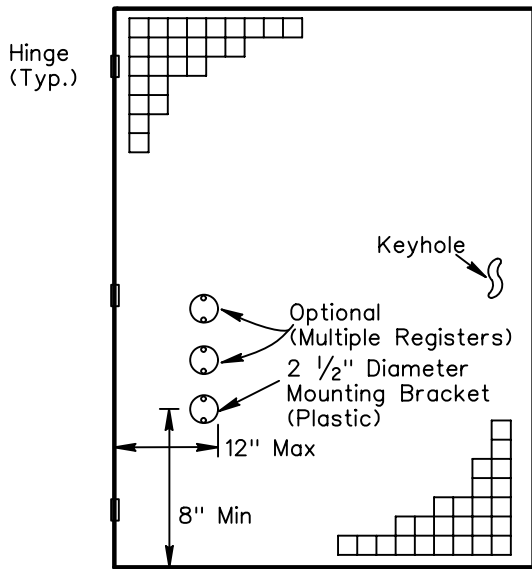
DWU

(PAGE No.)
206C

DATE
MAY 2012

**Fixed Network Or Mobile System
(100W Endpoint Or Approved Equal)**

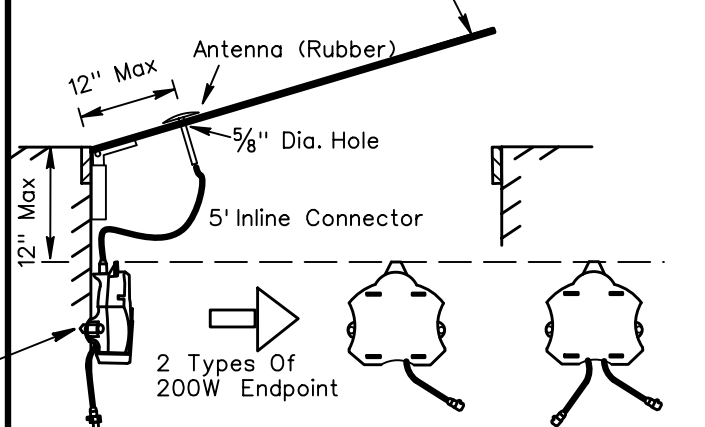
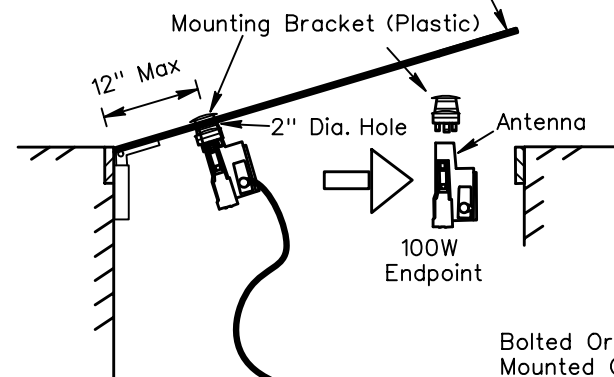
**Fixed Network
(200W Endpoint Or Approved Equal)**



Plan View

4'x3' Access Hatch Per DWU Spec.

4'x3' Access Hatch Per DWU Spec.



Profile View

AMI Meter With AMI Encoded Register With Factory Potted 25' Inline Connector Cable

AMI Meter With AMI Encoded Register With Factory Potted 25' Inline Connector Cable

REFER TO PAGES 206B & 206C

**AMI Meter Installation Details
For 3" And Larger Meters**

DWU

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206D

DATE
MAY 2012

1. Caution! Advanced Metering Infrastructure (AMI) Meters In the area. Contractor shall not remove, damage, or otherwise disturb AMI meter endpoint components unless otherwise directed by the DWU Meter Reading Operation (MRO) Technician.

2. Contractor shall contact MRO five (5) working days in advance at 214-670-5537 and Email: DWUMRO@dallascityhall.com if Any AMI Components shall be disconnected, reconnected, removed, or installed.

3. Contractor shall install AMI meter lids for water meters 2" and smaller in all Existing AMI and Proposed AMI areas. Contractor shall also return the existing AMI lids from existing AMI area to DWU MRO for meters 2" or smaller. NO SEPARATE PAY ITEM.

4. For meters 3" or larger, the contractor shall either connect to the existing meter vault or construct a new meter vault as specified on the plans.

5. Contractor shall be liable for the replacement cost of any lost or damaged AMI Components.

6. All meters in the Proposed and Existing AMI area shall be AMI-Ready Meter as furnished by DWU. A non AMI-Ready meter shall be replaced with an AMI-Ready meter by DWU.

*CAUTION ~ Advanced Metering
Infrastructure (AMI) Meters In Area*

*AMI Components Shall be Disconnected, Reconnected,
Removed, or Installed by DWU Personnel ONLY.*

*Contact DWU Meter Reading Operations
(MRO) 5 working days in advance.*

Tel: 214-670-5537

Email: DWUMRO@dallascityhall.com