

**CITY OF OWOSSO**  
**MEETING DISCUSSION POINTS FOR AMR FIXED NETWORK**

Meeting: August 11, 2016 Council Chambers @ 2:00 p.m.

Questions and discussion items:

1. Location of proposed structures for data collectors
  - Type structure/s
  - Structure height
  - Structure address and GPS coordinates
  - What type address file can be provided (shape, PDF, etc.)

**The city will provide the same information as previously provided to Michigan Meter in 2015. This would be fair and reasonable.**

**Please see the attached spreadsheet.**

2. Pit Meter lid. Composite material provides better radio reception than cast iron. Does City have a material preference? **No preference, except for those limited pit meters located in driveways and approaches. Pit meters subject to vehicle traffic shall have cast iron covers.**
3. **City to provide current MDEQ required AWWA standard material certifications.**

**Please see attached USEPA Certifications.**

**In addition, Section VII Meter Installation and Registration Retrofits, subparagraph A. 6. text addressing NL stamp for meter horns, shall be deleted. Section VII, A.6. shall now read “Contractor shall install meters to properly configured meter horns, with USEPA compliant Lead Free Certification. Existing meter horns meeting USEPA compliant Lead Free Certification markings may be used without replacement.**

**Section IV Cold Water Meters, subparagraph B.2., shall Delete “All attaching meter horns shall be stamped NL”. This text will be replaced with “All attaching meter horns shall be USEPA compliant with Lead Free certification markings, to signify.....**

4. City to provide specification for type meter horn/s. **As indicated below.**

Inside meters

A meter horn is used in most installations for services under 1 inch. This allows easy meter change out without disturbing the homeowners plumbing once installed. Our primary installation is using a Ford KH-1, KH-3, KH-4 Korner horn with proper pack joint assemblies to match customers plumbing. On occasion it has been necessary to utilize left or right Pretzel horns to get the proper meter orientation depending on plumbing configurations.

It would be of consideration that meters in crawl spaces be moisture resistant (such as pit style) as conditions are not as ideal as a basement settings.

Pit meters

At this time we are utilizing for most installation replacement risers in pits are Ford 71-33W-81-33/71 for 5/8 meters. These would have to be sized individually for any other size meter. Larger meters used for sprinklers and industrial purposes are typically in larger pits and most times an inline flange situation. These will have to be able to be serviceable or if necessary read by someone from ground level while preventing freezing.

5. Dry Pipe Alert requirement

- Mechanical meters cannot accommodate
- Solid State meters can provide

**Section III Fixed Base Automated Water Meter Reading Network, subparagraph.14.e states; “*Dry Pipe Indicators – System shall be able to detect no water in the meter*”.**

**The above subparagraph will be changed to state; “Dry Pipe Indicators – The ability of the Network System to detect no water in the meter is desirable.**

6. Bid due date. **City will extend Bid due date to August 30, 2016.**

7. City Iron concentration in drinking water. Iron is tested in part per million (mg/L). **Local analytical processes test down to .1 mg/L. Results are normally a ND or non-detect. Iron from ground water wells are removed by means of an Aerator, and lime softening.**

8. Meter testing accuracy. **City does not currently perform meter testing.**

9. Contractor to perform own background investigations. **Yes, this is preferred.**

10. Material price increases. **Annual increases after initial 24 months from the date of contract, shall be based on annual adjusted CPI index for utilities.**

11. Clarify the last sentence of the Local Preference Policy under General Conditions, in that; *“The preference also applies to subcontractor’s performing 25% or more of the work of a general contract”*.....**This means subcontractors who also are located in the City of Owosso or Shiawassee County, and paying taxes.**

12. Please explain the purpose of the fourth wire on the by-pass meter. **Section VII “Meter Installation and Register Retrofits”, subparagraph A.10. states; “All meter bypass piping must be reported to the city. If approved, meter bypasses shall be wired with a fourth wire to send a tamper alert if wire is cut or opened”.**

The above subparagraph will be changed to read as follows: ***“All meter bypass piping must be reported to the city. If the bypass piping configuration is approved by the city, contractor shall indicate or propose the means in which a tamper alert can be provided for approximately 100 of such configurations. All other piping connections discovered that avoid metered flow registry, shall be reported to the city”.***

13. Explain the difference between Option I versus Option II. **Option I requests replacement of all Non-Neptune meters, and to replace/upgrade Neptune meters as required... Option II requests replacement of all Non-Neptune meters 1 ½ inch and smaller, and to replace/upgrade Neptune meters as required.**

14. Leak Detection. The city currently reads in 100 cubic feet. If the city is looking to monitor for leak detection, it should have the registration in all meters to read in 1 cubic foot. **Yes I agree. All meters should be required to be read in 1 cubic foot increments. Section IV Cold Water Meters, subparagraph D. 1. A should read; “Registration shall be in units of 1 cubic feet (7.48 gallons)”.**

15. Would the city consider providing the new encoder registers for the existing Neptune meters, to retrofit the existing meters? **No, as the city does not have the manpower available to dedicate for a reasonably quick turn-around.**