DATE: March 4th, 2015

TO: MAG Specifications and Details Committee Members

FROM: Warren White, City of Chandler Representative

SUBJECT: Proposed Revisions to Section 616 Reclaimed Water Line Construction and NEW Reclaimed Valve Box detail

Revisions:

1. Revision to Section 616 Reclaimed Water Line Construction

   Section 616.2 MATERIALS:

   Pipe materials shall be in accordance with Section 610.

   Valves shall be in accordance with Sections 610 and 630.

   Valve boxes shall be in accordance with Section 345, this Section and Detail 391-1, 391-2 and TBD.

   Manholes shall be in accordance with Section 625, 787 and this Section, and applicable Details.

2. New Reclaimed Valve Box Detail No. TBD

   See attached initial DRAFT for further development.
ARTICLE 6. RECLAIMED WATER CONVEYANCES

R18-9-601. Definitions
In addition to the definitions provided in R18-9-701, the following terms apply to this Article:

1. “Open water conveyance” means any constructed open waterway, including canals and laterals that transports reclaimed water from a sewage treatment facility to a reclaimed water blending facility or from a sewage treatment facility or reclaimed water blending facility to the point of land application or end use. An open water conveyance does not include waters of the United States.

2. “Pipeline conveyance” means any system of pipelines that transports reclaimed water from a sewage treatment facility to a reclaimed water blending facility or from a sewage treatment facility or reclaimed water blending facility to the point of land application or end use.

ARTICLE 7. DIRECT REUSE OF RECLAIMED WATER

R18-9-701. Definitions
Unless provided otherwise, the definitions provided in A.R.S. § 49-201, A.A.C. R18-9-101, R18-9-601, R18-11-301, and the following terms apply to this Article:

1. “Direct reuse” means the beneficial use of reclaimed water for a purpose allowed by this Article. The following is not a direct reuse of reclaimed water:
NOTES:
1. IN UNPAVED AREAS, CONCRETE COLLAR SHALL CONFORM TO DETAIL C-317.
2. AN EXTENSION STEM PER MAG. STD. DTL. 391 SHALL BE PROVIDED WHERE THE VALVE OPERATING NUT IS MORE THAN 4'-0" BELOW FINISH GRADE.
3. THE EXTENSION 2" OPERATOR SHALL BE FIRMLY TIGHTENED TO THE VALVE NUT.
4. BACKFILL SHALL BE 1/2 SACK CLSM. PER MAG. SPECIFICATION 718.
5. VALVE BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE GUTTER, SIDEWALK, RAMPS OR VALLEY GUTTER.
RECLAIMED WATER VALVE BOX INSTALLATION

SECTION

NOTES:

1. ALL MATERIAL SHALL BE CAST IRON PER ASTM A-48, CLASS 30 B.

2. THE SURFACES OF THE COVER AND BOX WHICH COME IN CONTACT WITH EACH OTHER MUST BE SMOOTH AND FREE OF ALL CASTING RIDGES AND BURRS TO PROVIDE A SNUG FIT.

3. THE VALVE BOX SHALL HAVE A ROUND BOTTOM TO ACCOMMODATE RISER PIPE. THE TOP OF THE VALVE BOX SHALL BE SQUARE.

4. THE LID AND INSIDE AND OUTSIDE OF THE RISER PIPE SHALL BE COLORED PURPLE. COLOR MAY BE INCORPORATED INTO PIPE DURING MANUFACTURE OR PAINTED ONTO PIPE SURFACE. WHEN PAINTED THE PAINT SHALL BE SEYMOUR SAFETY PURPLE.

5. LETTERING SHALL BE RESTRICTED TO THAT SHOWN ON THE VALVE BOX COVER.

DETAIL NO. TBD-2
STANDARD DETAIL ENGLISH

RECLAIMED WATER VALVE BOX INSTALLATION

REVISED 3/4/15 Draft DETAIL NO. TBD-2
NOTES:
1. CASTING TO CONFORM TO SECT. 787.
2. LETTERS ON COVER TO BE AS FOLLOWS: "SEWER", "WATER", OR "SURVEY" AS DIRECTED TOTAL WIDTH OF WORD "SEWER" OR "WATER", 3-3/4". TOTAL WIDTH OF WORD "SURVEY" 4-1/2". LETTER SIZE 5/8" x 3/4", RAISED 1/16" ABOVE LEVEL OF COVER, TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL.
3. INDICATES MACHINE FINISHED SURFACE.
NOTES:
1. CASTING TO CONFORM TO SECT. 787.
2. LETTERS ON COVER TO BE AS FOLLOWS:
   "RECLAIMED" OR "NONPOTABLE" AS DIRECTED. TOTAL WIDTH OF WORD "RECLAIMED"
   XXXX", TOTAL WIDTH OF WORD "NONPOTABLE" XXXX". LETTER SIZE 5/8" x 3/4", RAISED 1/16"
   ABOVE LEVEL OF COVER, TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL.
3. $\text{INDICATES MACHINE FINISHED SURFACE.}$
4. VALVE BOX SHALL HAVE A ROUND BOTTOM TO ACCOMMODATE RISER PIPE.