Date: May 21, 2014 Revised 2014-08-14

To: MAG Specifications and Details Committee

From: Robert Herz, MCDOT Representative

Subject: Delete the use of Asbestos-Cement Pipe in Valve Box Installations Case 14-11

PURPOSE: Delete the use of Asbestos-Cement Pipe (ACP) in new Valve Box Installations.

REVISIONS:
1. Replaced ACP with PVC C900 pipe or approved equal.
2. Pictorial adjustments made to Details 391-1, 391-2, and 392.
3. Deleted the brick alternative for supporting the valve box riser pipe as requested by the committee.
4. Deleted requirement for a 12” riser pipe for lengths greater than 10’ as requested by the committee.

Detail 391-1 Added Note 4: Cut riser pipe to length in field. Caution: If existing riser is asbestos-cement pipe (ACP) follow OSHA guidelines for working with ACP.

Detail 391-2, Revised the first sentence of Note 2 to read: If two or more sections of pipe are used to make the valve box riser, they shall be coupled or bonded to form debris-tight joints.

Detail 392: Deleted from the end of note 1 the following: “Once installed the cap must withstand, without slippage, a minimum vertical force of 50 pounds at a loading rate of 1 inch/minute.”
NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE PRIOR TO PLACING OF THE PORTLAND CEMENT CONCRETE SURFACE.

2. USE PARKSON TYLER, APCO OR EQUAL DEEP SKIRTED LID (4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE BOX C.I. MIN T.S. 30,000 P.S.I.

3. GROUND BELOW CONCRETE PAD TO BE COMPACTED 95% MAXIMUM DENSITY.

4. CUT RISER PIPE TO LENGTH IN FIELD. CAUTION: IF EXISTING RISER IS ASBESTOS-CEMENT PIPE (ACP) FOLLOW OSHA GUIDELINES FOR WORKING WITH ACP.

TYPE ’A’
(TO BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC)

TYPE ’B’
(NOT SUBJECT TO VEHICULAR TRAFFIC)
NOTES:

1. Extension Stem: With square socket on bottom to fit 2" square valve nut. Extension to valve stems required on all valves installed where operating nut is over 6' below surface. Length to fit each installation. Operating nut to be held on top of extension with stop nut.

2. If two or more sections of pipe are used to make the valve box riser, they shall be coupled or bonded to form debris-tight joints.

3. Stem Painting: All steel to have prime coat of paint No. 1-D and one heavy application (finish coat) of paint No. 9 as per Sect. 790.
NOTES:

1. THE DEBRIS CAP SHALL BE DESIGNED AND INSTALLED TO PREVENT DEBRIS SUCH AS DIRT, DUST, SAND, ETC., FROM PASSING AROUND THE CAP AND DOWN INTO THE VALVE HOUSING. THE CAP SHALL BE HELD IN PLACE BY A MECHANISM WHICH WILL NOT DAMAGE THE VALVE HOUSING.

2. THE CAP SHALL BE MANUFACTURED OF CORROSIVE RESISTANT MATERIALS.

3. DEBRIS CAP SHALL BE INSTALLED AS CLOSE UNDER THE CAST IRON COVER WITHOUT INTERFERING WITH COVER OPERATION.

4. THE CAP SHALL BE CAPABLE OF SECURELY HOLDING A STANDARD LOCATING COIL, "SCOTCH MARK" 4 DISK MARKER BY 3M OR EQUAL.

5. THE CAP SHALL BE CONSTRUCTED TO ALLOW THE DEVICE TO BE SECURED BY A LOCK. THE LOCK (PAD, BARREL, ETC.) SHALL BE SUPPLIED BY THE AGENCY.

6. THE CAP SHALL BE INSTALLED IN ALL VALVE HOUSINGS AS REQUIRED BY THE CONTRACT DOCUMENTS OR BY THE AGENCY'S POLICIES.