



**MARICOPA COUNTY**  
*Department of Transportation*

MEMORANDUM

**Date:** May 21, 2014

Revised 2014-08-11

**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.

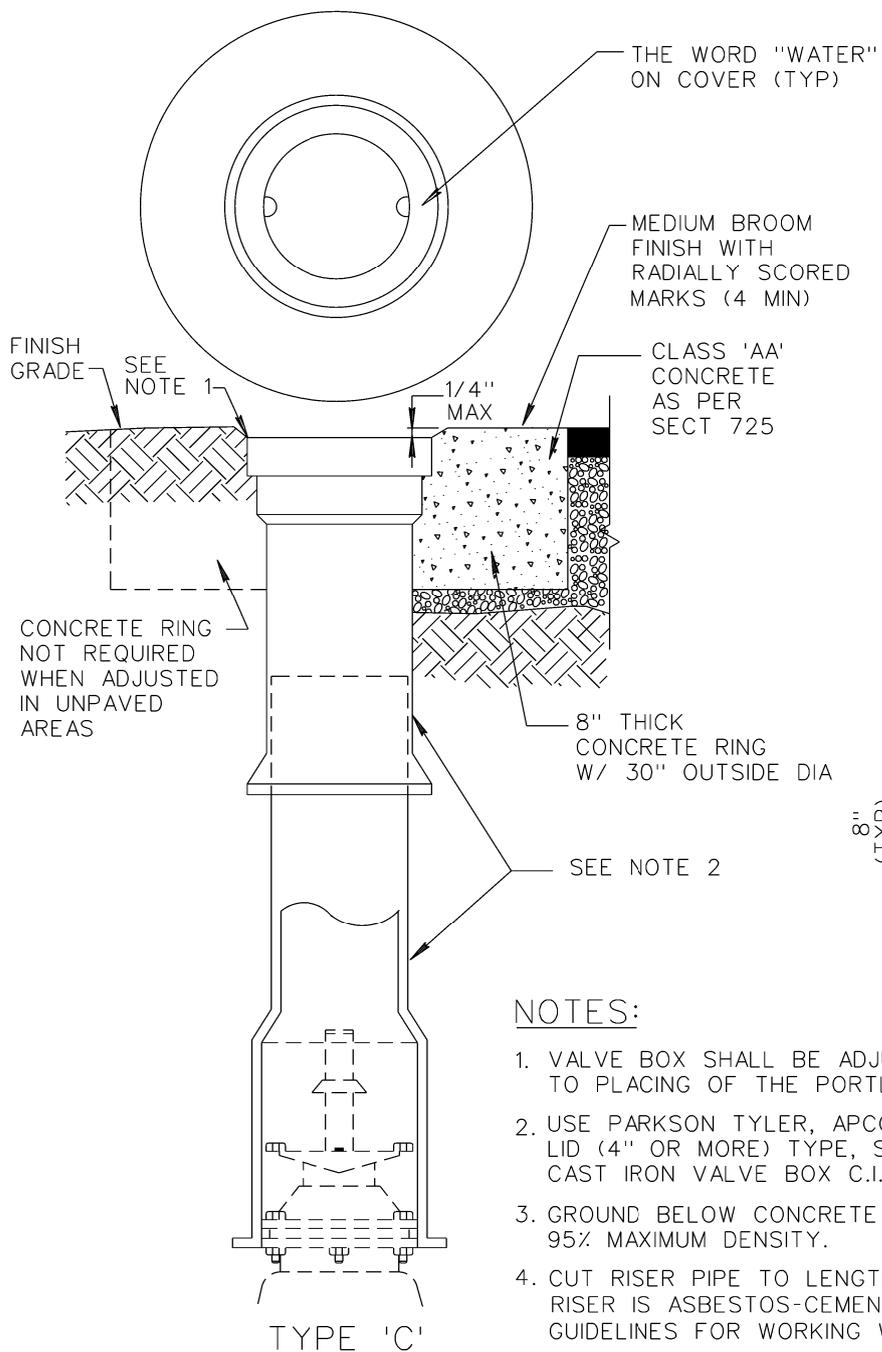
**REVISIONS:**

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.

**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.

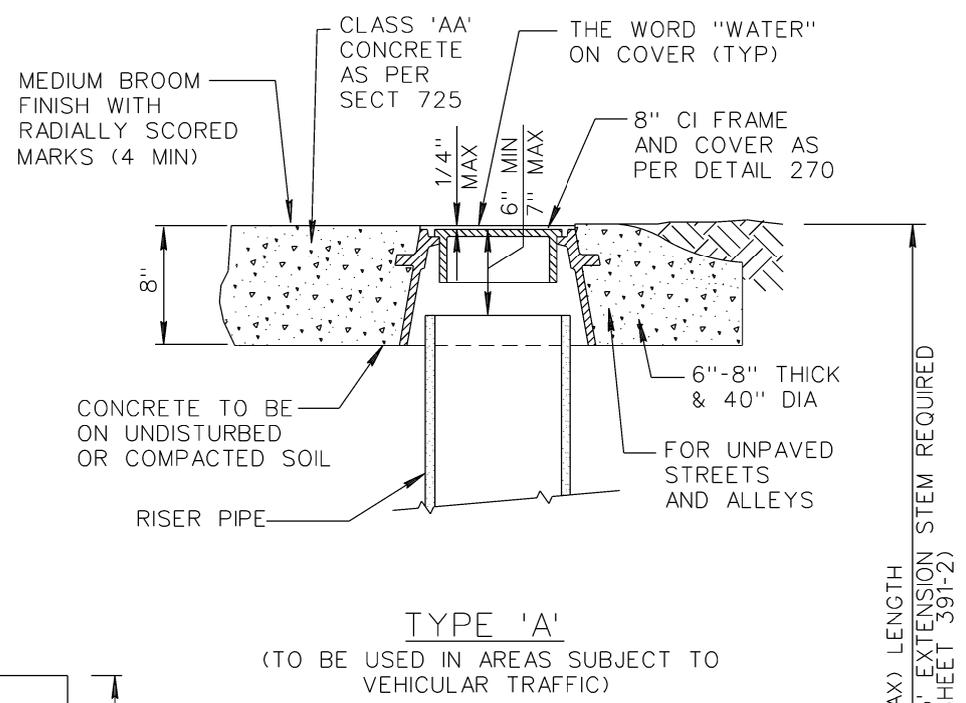
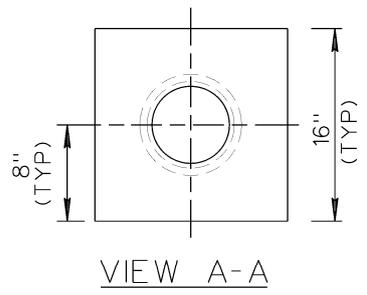
**Detail 391-2, Revised the first sentence of Note 2 to read:** If two or more sections of pipe are used to make the valve box riser, they shall be coupled or bonded to form debris-tight joints.

**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."

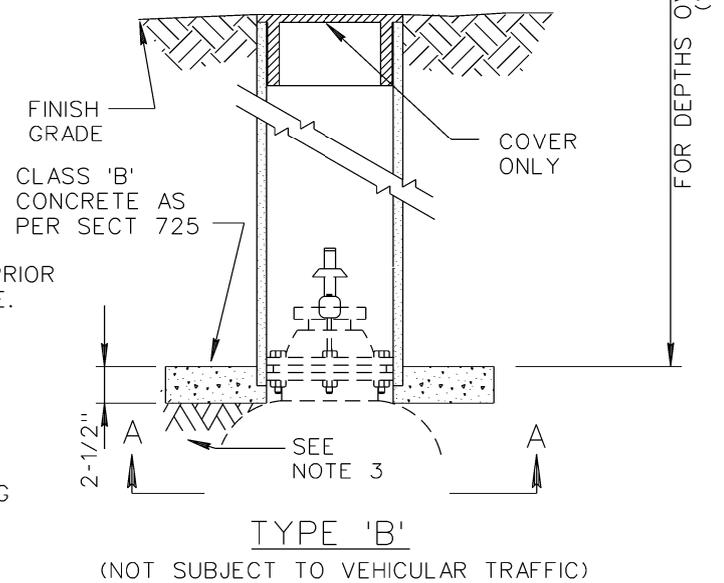


**NOTES:**

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)

5' (MAX) LENGTH  
FOR DEPTHS OVER 5' EXTENSION STEM REQUIRED  
(SEE SHEET 391-2)

DETAIL NO.  
391-1

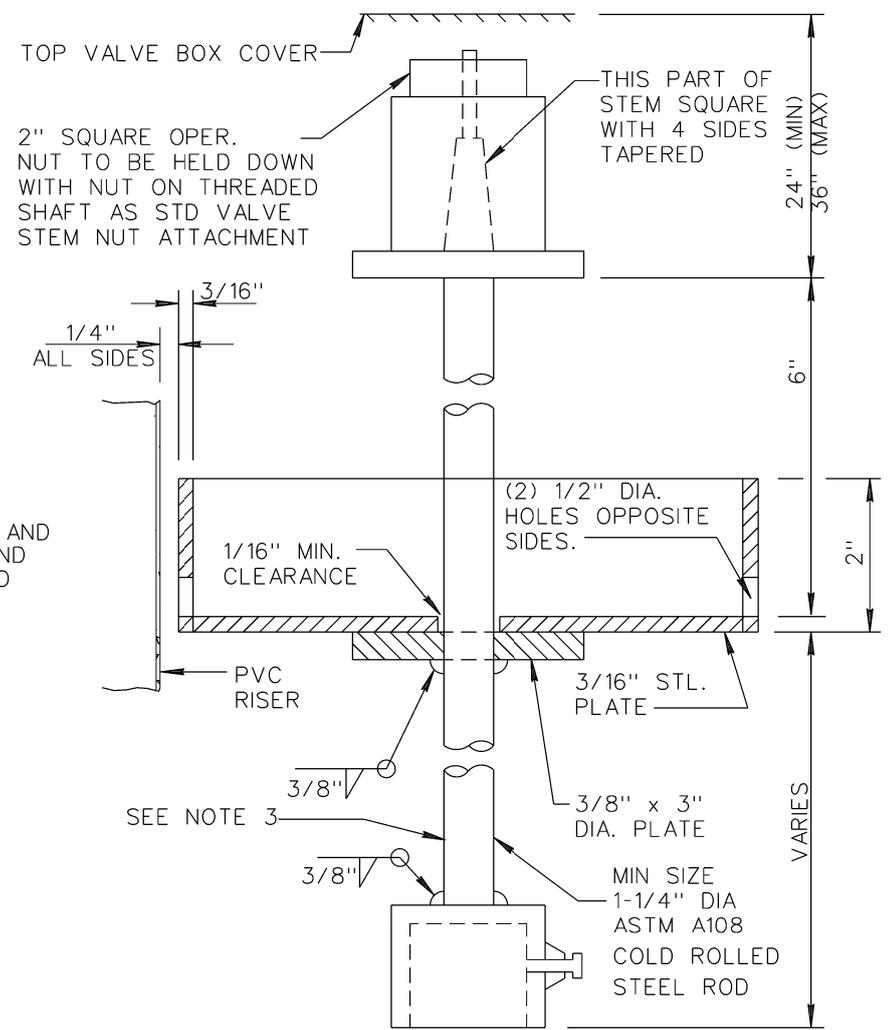
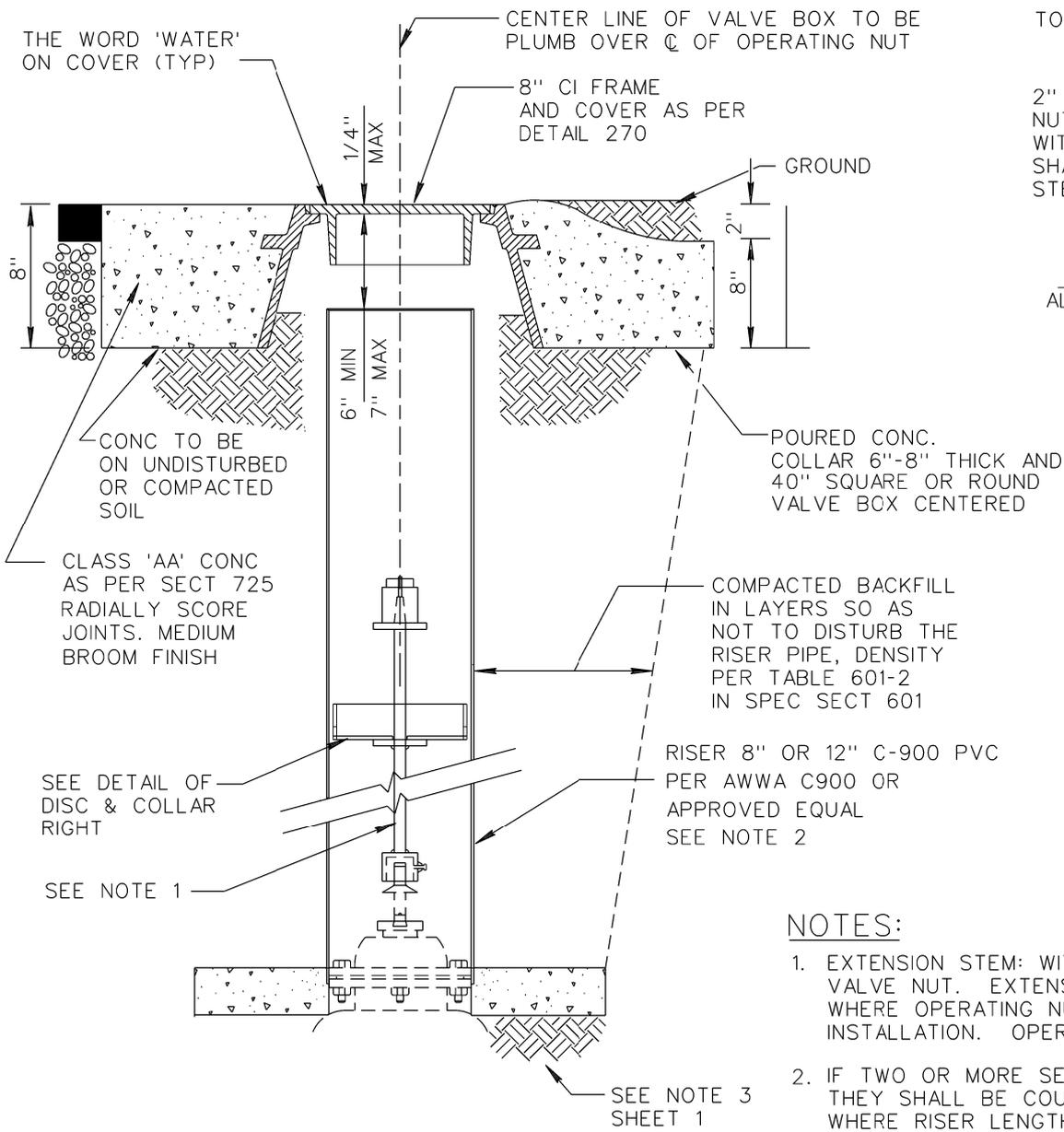


STANDARD DETAIL  
ENGLISH

VALVE BOX INSTALLATION  
AND GRADE ADJUSTMENT

REVISED  
01-01-2015

DETAIL NO.  
391-1



**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 5' 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. WHERE RISER LENGTH EXCEEDS 10' USE 12" RISER PIPE.
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.

DETAIL NO.  
391-2



STANDARD DETAIL  
ENGLISH

VALVE BOX INSTALLATION  
AND GRADE ADJUSTMENT

REVISED  
01-01-2015

DETAIL NO.  
391-2