



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

Date: December 27, 2012
To: MAG Specifications and Details Committee
From: Robert Herz, MCDOT Representative
Subject: Revise title of Section 324

Case 13-01 A

PURPOSE: Rigid pavement is commonly referred to as portland cement concrete pavement or PCCP. Although PCCP is a commonly used acronym, MAG specifications do not clearly identify a specification for PCCP. Revising the title of section 324 will clearly identify the specification as being for portland cement concrete pavement (PCCP).

REVISION:
Change section title from *PORTLAND CEMENT CONCRETE STREET PAVEMENT* to *PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)*.



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

Date: December 27, 2012

To: MAG Specifications and Details Committee

From: Robert Herz, MCDOT Representative

Subject: Miscellaneous Corrections

Case 13-01 B and C

PURPOSE: Correct minor errors.

REVISION:

B. Section 505.6.3.3 (4) Typing error correction

Change "Armor: All steel ~~for~~cast-in-place deck joint ..." to "Armor: All steel **for** cast-in-place deck joint ..."

C. Section 735.4 (D) Delete obsolete reference as noted:

(D) Rubber gaskets shall be in accordance with ASTM C443 ~~or~~ **AASHTO M 315**.



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

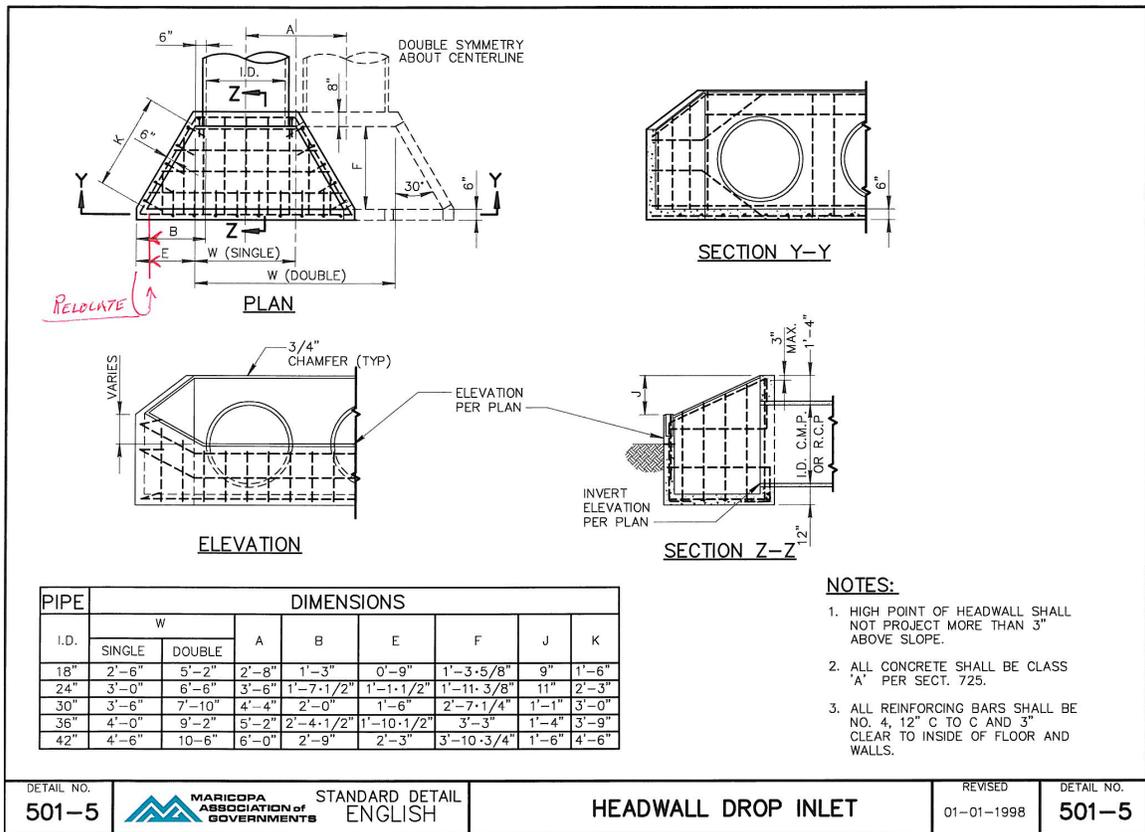
Date: January 15, 2013
To: MAG Specifications and Details Committee
From: Robert Herz, MCDOT Representative
Subject: Correction to Detail 501-5

Case 13-01 D

PURPOSE: Correct depicted distance B and E shown on PLAN view of Detail 501-5.

REVISION:

Variable distance B and E shown on the PLAN view are presently shown to the outside edge of the inlet basin wall, they should be shown to the inside edge of the inlet basin wall.
 (Distances E and F are the legs of a right triangle with hypotenuse K.)



DETAIL NO. 501-5	STANDARD DETAIL ENGLISH	HEADWALL DROP INLET	REVISED 01-01-1998	DETAIL NO. 501-5
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SECTION 311

PLACEMENT AND CONSTRUCTION OF CEMENT TREATED SUBGRADE

311.1 DESCRIPTION:

This item shall consist of a cement treated subgrade composed of a mixture of local soil, Portland cement, and water compacted at optimum moisture content.

311.2 MATERIALS:

Portland cement and water shall comply with Sections 725. The soil for the mixture shall consist of the material in the area to be paved. The material shall not contain more than 5 percent gravel or stone retained on a 3 inches sieve. It shall be demonstrated by laboratory tests that the plasticity and strength characteristics as defined in Section 311.4.5 of the soil will be adequately modified by the specified cement content.

311.3 EQUIPMENT:

An ample number of machines, combination of machines and equipment shall be provided and used to produce the complete soil cement treated layer meeting the requirements for soil pulverization, cement distribution, water application, incorporation of materials, compaction, finishing, and for application of the curing material as provided in these specifications.

Mixing shall be accomplished by means of multiple-pass soil-cement mixer, single-pass soil-cement mixer or central plant mixer.

Water may be applied through the mixer or with the water trucks equipped with pressure sprays. Water trucks providing fine fog-type sprays shall be furnished for finishing and curing. Properly adjusted garden type nozzles on a pressure bar may be used to produce fog spray if approved by the Engineer.

Cement spreader shall be a specially constructed device to distribute bulk cement at the specified rate. The spreader shall have the ability to maintain a consistent spread rate over variable travel speeds.

311.4 CONSTRUCTION METHODS:

Prior to construction, the contractor shall remove all deleterious material, organic material, and particles retained on the 3 inch sieve from the area to be treated. The soil shall be brought to a compacted condition, true to line and grade as directed by the Engineer or as shown on the plans. The compacted soil and surface shall be approved by the Engineer prior to proceeding with mixing.

The material shall be scarified, pulverized, mixed with water and cement, compacted, finished and cured in lengths permitting the full roadway width to be complete in not more than 4 hours from the time that cement is exposed to water. Such lengths will generally be not less than 600 feet or the length of one City block and preferably more. Where a gutter section exists the material shall be pulled back from the gutter face for the full depth of the course before processing.

311.4.1 Pulverizing: Prior to application of cement, soil to be processed shall be scarified to depth of base. The material shall be damp at time of scarifying to reduce the dust generation and to aid in pulverization. Soil shall be pulverized until not less than 80 percent, exclusive of gravel or stone, will pass a No. 4 sieve.

311.4.2 Application of Cement: The quantity of cement shall be by weight as a percentage of the dry weight of the soil as determined by the laboratory and/or as directed by the Engineer and shall be applied uniformly on the soil in a manner satisfactory to the Engineer. The allowable deviation in uniformity shall not exceed 10 percent. The entire operation of spreading and mixing shall be conducted in such a manner as will result in a uniform soil cement and water mixture for the full design width and depth.

The percentage of moisture in the soil, at the time of cement application, shall not exceed the quantity that will permit a uniform and intimate mixture of the soil and cement during mixing operations, and it shall not exceed the specified optimum moisture content for the soil cement mixture.