DENVER WATER

MEMORANDUM

To: Denver Water Engineering Standards Users

From: Katie L. Ross, P.E. – Distribution Engineering Manager

CC: Robert J. Mahoney, P.E. – Chief Engineering Officer
Jeremy M. Ross, P.E. – Director of Engineering – Projects

Date: May 29, 2020

RE: Denver Water Engineering Standards – 15th Edition
Errata 3 - Notice of Corrections

Revisions to the 15th Edition of the Engineering Standards are hereby published for immediate use.

CHAPTER 7 – EARTHWORK, SUBPARAGRAPH 7.10, SUBPARAGRAPH A, FIRST PARAGRAPH, SECOND SENTENCE, PAGE 79:

DELETE:

Bell holes shall be dug deep enough to provide 2-inches of clearance between the bell and bedding material.

SUBSTITUTE:

Bell holes shall be dug deep enough to provide 6-inches of clearance between the bell and subgrade.

CHAPTER 7 – EARTHWORK, SUBPARAGRAPH 7.10, SUBPARAGRAPH B, PAGE 79:

DELETE:

Bedding and pipe zone material shall be clean, free draining, poorly graded, unfrozen, non-friable, natural rounded (not crushed) squeegee with no clay balls or organic material that is in accordance with the following limits when tested by means of laboratory sieves:

SUBSTITUTE:

Bedding and pipe zone material shall be clean, free draining, poorly graded, unfrozen, non-friable, rounded (not crushed) squeegee with no clay balls or organic material. Expanded clay Lightweight Aggregate is acceptable with a max LA abrasion of 30%. Material shall be in accordance with the following limits when tested by means of laboratory sieves:

CHAPTER 7 – EARTHWORK, SUBPARAGRAPH 7.10, SUBPARAGRAPH B, TABLE, PAGE 80:

DELETE:

Squeegee (For use with 20-inch or smaller diameter mains)	
Sieve Size	**Total Percent Passing by Weight**
3/8-inch	100
No. 50	0 to 10
No. 100	0 to 5
No. 200	0 to 3

SUBSTITUTE:

Lightweight Squeegee (For use with 20-inch or smaller diameter mains)	
Sieve Size	**Total Percent Passing by Weight**
3/8-inch	100
No. 50	0 to 30
No. 100	0 to 10
No. 200	0 to 5

The following Material Specifications are hereby corrected and updated:

MATERIAL SPECIFICATION – 5 FOR RESILIENT SEATED GATE VALVES, SUBPARAGRAPH 5, PAGE 1

DELETE:

VALVES INSTALLED IN THE RECYCLED WATER SYSTEM SHALL HAVE EPDM SEATS.
INSTALLATION

SUBSTITUTE:

INSTALLATION

MATERIAL SPECIFICATION – 23 FOR BRASS AND BRONZE GOODS, SUBPARAGRAPH 2, SECOND TABLE, PAGE 1:

DELETE:

NL

MATERIAL SPECIFICATION – 23 FOR BRASS AND BRONZE GOODS, SUBPARAGRAPH 3, TABLE, PAGE 2:

DELETE:

720-B612WWxx 660

SUBSTITUTE:

720-B612WWxx 666

MATERIAL SPECIFICATION – 23 FOR BRASS AND BRONZE GOODS, SUBPARAGRAPH 3, TABLE, PAGE 2:

DELETE:

720-B712WWxx 770

SUBSTITUTE:

720-B712WWxx 777

MATERIAL SPECIFICATION – 25 FOR METER PITS, DOMES, AND LIDS, SUBPARAGRAPH 2, SECOND PARAGRAPH, FIRST SENTENCE, PAGE 1:

ADD:

42-inch or

MATERIAL SPECIFICATION – 25 FOR METER PITS, DOMES, AND LIDS, SUBPARAGRAPH 2, SUBPARAGRAPH B, FIRST PARAGRAPH, PAGE 1:

DELETE:

Plastic meter pits shall be of a 1-piece design with a nominal 24-inch diameter by 42-inch high unit that tapers in 12-inches to accept a 20-inch diameter dome unit; or a 2-piece design with a nominal 24-inch diameter by 36-inch high base unit and a 12-inch top unit that tapers from a 24-inch diameter to accept a standard 20-inch diameter dome unit. The units shall be constructed of LMDP with a wall thickness of no less than 0.5-inches.

SUBSTITUTE:

Plastic meter pits shall be of a 1-piece design with a nominal 24-inch diameter by 42-inch high unit that tapers in 12-inches to accept a 20-inch diameter dome unit; or a 2-piece design with a nominal 24-inch diameter by 30-inch high base unit and a 12-inch or 18-inch top unit that tapers from a 24-inch diameter to accept a standard 20-inch diameter dome unit. The units shall be constructed of LMDP or high density polypropylene (HDPE) with a wall thickness of no less than 0.5-inches.

MATERIAL SPECIFICATION – 25 FOR METER PITS, DOMES, AND LIDS, SUBPARAGRAPH 4, FIRST TABLE, PAGE 2:

DELETE:

MMP2436

SUBSTITUTE:

MMPE 2412

MATERIAL SPECIFICATION – 25 FOR METER PITS, DOMES, AND LIDS, SUBPARAGRAPH 4, FIRST TABLE, PAGE 2:

ADD:

0020-42 Body B-W 2 MsHL – 24” Base (Bullet Style)

The following Standard Drawings are hereby corrected and updated:

SHEET 51 – 2” AND SMALLER NON-COPPER SERVICE LINE REPLACEMENT

DELETE:

Drawing in its entirety.

SUBSTITUTE:

Attached drawing.

SHEET 52 – 2” AND SMALLER NON-COPPER SERVICE LINE REPLACEMENT & INSIDE METER RELOCATION, NOTE 5

DELETE:

Drawing in its entirety.

SUBSTITUTE:

Attached drawing.

SHEET 61 – INSIDE SETTING FOR 3” & LARGER METER, NOTE 2

DELETE:

Drawing in its entirety.

SUBSTITUTE:

Attached drawing.

SHEET 63 – INSIDE BACKFLOW PREVENTION ASSEMBLY FOR OUTSIDE SETTING OF 1 1/2" & 2" METER & BYPASS MANHOLE

DELETE:

Drawing in its entirety.

SUBSTITUTE:

Attached drawing.

SHEET 68 – IRRIGATION OUTSIDE SETTING FOR 2" & SMALLER REDUCED PRESSURE PRINCIPLE ASSEMBLY IN ENCLOSURE

DELETE:

Drawing in its entirety.

SUBSTITUTE:

Attached drawing.

The administration of these Standards, including the interpretation, enforcement, revision, waiver, and variance thereof, is hereby delegated by the CEO/Manager to the Chief Engineering Officer or the Chief's appointed representative. A variance request must be submitted to the Sales Administration Section and forwarded to the Chief Engineering Officer, or the Chief's appointed representative, for review.

A PDF version of the Errata 3 revisions can be found at:
https://www.denverwater.org/contractors/construction-information/design-standards/engineering-standards\

Please contact Katie Ross at 303-628-6589 with any questions regarding these changes.

End of Memorandum