

CITY OF ARVADA

ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS JANUARY 2016 UPDATE SUMMARY

The following **written specification sections** have been modified and/or updated as follows:

Section 2.17 C.3.a 1.67 labor markup is revised to match CDOT standards.

Section 5.7 Erosion Control Best Management Practices (BMP's) section modified to describe erosion control BMP requirements in more detail. Both sections 5.7.1 and 5.7.2 have additional clarification language.

Section 10.2.6 Concrete Aggregates has been updated to reference current ASTM standards.

Section 25.3.11 Tapping Sewer Mains – services larger than 6" diameter require a manhole rather than including 6" diameter.

Section 30.2.1. – AY McDonald meter (vault) setters now allowed. Husky Frame Systems 12" diameter meter lids now required in lieu of cast iron.

Section 30.2.2 B clarifies valve operators to be on the north and east side of the valve.

Section 30.2.2.C now requires stainless steel bolts

Section 30.2.3.D clarifies depth of operating nut

Section 30.2.3.G allows Castings, Inc. CI-500 series valve boxes

Section 30.2.10 now allows Sigma One Lok model SLCE retainer glands

Section 30.2.12 now requires CP monitoring station at end of steel casing

Section 30.2.15 now references current microwave transmitting signals.

Section 30.4.3 updates hydrostatic testing and disinfection requirements along with bacteriological analysis of new water mains.

Section 50 Updated to include material and construction specifications section for traffic signals and fiber optic cable material and construction specifications.

Section 95.1.1 references submittals through the Community Development Department only.

Section 95.3 added submittal of completed stormwater detention and infiltration design data sheet.

Section 95.10 revised to only require submittal of one copy of record drawings.

Section 100 All tables and figures have been updated to match current AASHTO specifications

Section 100.3 Major collector street designation has been added to differentiate from collector street designation.

Table 100.17 Recommended Minimum Pavement Sections – certain minimum asphalt depths have been increased by 1 inch.

Section 105 Updated to match current Urban Drainage and Flood Control District standards.

The following **standard drawings** have been modified and/or updated as follows:

W-4 Concrete reaction block re-labeled to concrete kickblock

W-21 Note #1 changed to required cor-blue eye bolt material

W-25 Solid stock extension shaft required for butterfly valves.

W-30 Note added referencing water service upsizing that may be required to meet building code requirements

W-31 Note modified to require Utilities Director approval for driveway meter pits. Note 8 added disallowing meter resetters.

W-36 Note added requiring epoxy coated sleeve type coupling with stainless steel bolts.

W-46 Note #4 added requiring all bolts, nuts and washers to be stainless steel.

W-47 Notes added referencing possible underdrain requirement, boiler drain installation on cast iron valves and stainless steel bolts, nuts and washers.

W-51 Note added clarifying stainless steel mesh screen backing

W-54 Note #4 added for sump pump and vent fan

W-55 Note #9 added for stainless steel bolts, nuts and washers. References added for grouting, coring, sump discharge and duplex receptacle location.

W-56 PRV valve specifications clarified

W-65 Tracer wire test site detail added. Notes for tracer wire and ground rods clarified.

W-66 Ground rod at pipe added. Title changed to 4" and larger pipe.

W-67 Note added clarifying 2" copper pipe required.

SS-8 Sanitary sewer service clean-out detail added.

SD-1 through SD-6 Revised to match current CDOT M standards

TC-1 through TC-17 Updated to match current MUTCD standards

SW-1 Legend modifications

SW-2 Modified notes and positioning of rock sock

SW-3 Modified notes and remove 4" depth trench requirement

SW-4 Modified notes and Section A-A

SW-5 through SW-7 Modified notes

SW-8 Modified notes and anchor details

SW-8a Modified notes and remove staking

SW-9 through SW-10 Modified notes

SW-11 New detail for single lot

SW-12 New detail for temporary staging area

SW-13 New detail for standard erosion control notes

SW-14 New detail for standard utility replacement

SW-15 New detail for standard concrete replacement

SW-16 New detail for standard asphalt replacement

ST-2 – Added to note #2 regarding flowline to flowline width

ST-3 – Local street section flowline to flowline width changed from 28' to 30'. Removed rural street section. Added multifamily and industrial street section with flowline width of 34' for on street parking and emergency access requirements.

ST-4 Detail removed. Emergency response setup area not required with changes to ST-3.

ST-8 Rebar clearance note added.

ST-10 and ST-11 Curb cut details modified to match current ADA requirements

ST-14 through ST-16 Dimensional clarifications added to meet current ADA requirements

ST-17 Added truncated domes

ST-19 Dimensional clarifications added to meet current ADA requirements

ST-21 through ST-23 Dimensional clarifications added to meet current ADA requirements

ST-24 Crossspan clarification note added

ST-26 Curb cut design modified to meet current ADA requirements

ST-27 Dimensional clarifications added to meet current ADA requirements

ST-29 through ST-31 Revised to match current AASHTO standards.

ST-33 New street eyebrow design standard detail added

ST-34 Note added regarding location of sidewalk chases along properties

TR-2 through TR-5 Revisions to notes

TR-7 and TR-8 Dimension to lipline clarified

TS-1 through TS-28 All new details added for traffic signal installation requirements