

Introduction & Software Applications

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INTRODUCTION OVERVIEW - SECTION 1.0

The Denver Water 3rd Edition CAD Standards (DW CAD Standards) were developed for internal and external use. Internally, the CAD Standards are used as an office standard; externally, the CAD Standards shall be issued to consultants for use on Capital Projects submitted to Denver Water. In both instances, the CAD Standards require the end user to follow routine procedures which will increase efficiency and ensure uniformity in plan output. CAD Standards have been based on the current United States National CAD Standard® (NCS).

The DW CAD Standards are in place to support our core values: Integrity, Vision, Passion, Excellence and Respect. The enforcement of the CAD Standards results in clear, accurate drawings that help Denver Water maintain integrity within the system and to continue providing reliable service. Consistent drawings help our field crews identify water features during inspection and construction; increase efficiencies within the office to quickly post work to the Geographic Information System (GIS), at Denver Water otherwise known as Electronic Mapping Access Portal (E-Map); and improve the as-built plans creating a more complete, accurate, and identifiable set.

The DW CAD Standards define best practices for CAD drafters to create and deliver CAD drawing sets. Accurate and error-free CAD drawings support Denver Water's GIS (E-Map), currently used by every division of Denver Water. Having a standard drawing set ensures that less costly mistakes are made in the field - in turn saving time, money and even lives. Denver Water maintains safety, reliability, and consistency within the system by communicating clear, accurate information.

CAD Standards are just one more way Denver Water can accomplish its goal of becoming the best water utility in the nation. We strive to help our customers and consultants by maintaining a very clear and direct standard for drawing creation. We remain open to questions, comments, and concerns regarding the CAD Standards and always take suggestions into consideration.

Other examples of local municipalities that have and enforce CAD standards are CDOT, Metro Wastewater, Greenwood Village and City and County of Denver (CCD).

SOFTWARE APPLICATIONS

As of October 2016, Denver Water's Engineering Department is on a Windows 7 - 64 bit platform using AutoCAD Civil 3D 2016; all drawings shall be saved in AutoCAD 2013 .dwg format. This is defined as the "current platform".

While Denver Water is on Subscription with Autodesk software, we may not be using the current version of Autodesk software. If Denver Water implements a new version of Autodesk software the documents posted on the Denver Water's website (www.denverwater.org) and the CAD and Engineering Standards will be changed to reflect any applicable changes.

This document and all screen captures were created using AutoCAD Civil 3D/Map 3D 2016 unless there was no significant change from AutoCAD Civil 3D/Map 3D 2014.

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