

**Summary of 2016  
Update to Surface Water Engineering Standards**

<b>2015 Surface Water Engineering Standards</b>	<b>2016 Surface Water Engineering Standards</b>	<b>Revision</b>
D1-02 DEFINITIONS	D1-02 DEFINITIONS	Clarified definition for “Replaced Impervious Surface” to make it consistent with the surface water code.
D1-02 DEFINITIONS	D1-02 DEFINITIONS	Add definition for “Infiltratable”
D1-03 REFERENCES	D1-03 REFERENCES	Updated the reference for the Guidelines and Resources for Implementing Soil Quality and Depth BMP T5.13 and the Rain Garden Handbook for Western Washington.
D2-07.1 1)	D2-07.1 1)	Updated internet link.
D2-07.2, general note 1	D2-07.2, general note 1	Replace “2013” with “latest”
D4-04.5	D4-04.5	Floodplain/Floodway Analysis- Removed two duplicate paragraphs.
D4-04.11A & D4-04.12A	D4-04.11A & D4-04.12A	Adds Mercer Slough to the water bodies that flow control exemptions for direct discharges apply.
D4-06.7A	D4-06.7A	Revised the text to read easier and clearer.
Table 4.12	Table 4.12	Added pop-up emitters to the table. Provided clarification on dispersion trenches. Clarified pop-up emitter’s setbacks.
D4-08.4	Deleted section from standards	This section duplicated section D4-08.2
D6-04.1 E	D4-04.1 E	Updated date of reference from 2007 to 2013.
D7-02.3	D7-02.3	Add triple wall Corrugated Polyethylene Storm Sewer Pipe to approved materials - 30" dia max
D7-04.4 (B)	D7-04.4 (B)	Added aluminum coated (aluminized) corrugated iron or steel drain pipe to the materials allowed for detention pipe or tank.
D8-06.4 B, C & D	D8-06.4 B, C & D	Modified the requirement to perform leakage tests on all Pipe/tank systems, wet ponds and precast and cast-in-place vaults
D8-08.1	D8-08.1	Change "Sewer maintenance engineering technician inspector" to "Storm Technician"

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Appendix D	Appendix D	Added Oldcastle as an approved manufacturer of reinforced concrete pipe. Deleted Pacific International Pipe and Engineering, Inc. and Associated Sand and Gravel as approved manufacturers of manholes and catch basins and added Oldcastle Precast as an approved manufacturer. Changed polypropylene manholes steps from Lane P-13938 to Lane P-14938.
Standard Detail D-5	Standard Detail D-5	Changed note 5 to list Lane P-14938 instead of Lane P-13938 as a plastic step acceptable to the utility.
Standard Detail D-25	Standard Detail D-25	Note 1; Replace "12'" with "18'" (two places) Detail dimension top of sheet measure 12" for Tee cut from edge of trench not center of trench.
Standard Detail D-31	Standard Detail D-31	In Note 12 delete "2009".
Standard Detail D-32	Standard Detail D-32	In Note 15 delete "2009".
Standard Detail D-46	Standard Detail D-46	Replace Note 1 with Note 1 in Detail D-25
Standard Detail D-47	Standard Detail D-47	In Note 21 delete "2009".
Standard Detail D-48	Standard Detail D-48	In Note 17 delete "2009".
Standard Detail NDP-1	Standard Detail NDP-1	In Note 1 change "2005" to "2012".
Standard Detail NDP-5	Standard Detail NDP-5	In Note 7A change "2005" to "2013".
Standard Detail NDP-11	Standard Detail NDP-11	Added Note 8 regarding pavement thickness at a sidewalk or a driveway.
Standard Detail NDP-22	Standard Detail NDP-22	Changed a dimension from "10 Ft minimum" to "5 ft minimum (varies per setback requirement)".
Standard Detail NDP-24	Not Used	Remove Detail NPD-24