

**City of Jefferson**

**PUBLIC WORKS DESIGN STANDARDS**

*Last Updated **April 2024***  
*Originally adopted October 1996*

**CITY OF JEFFERSON  
PUBLIC WORKS DESIGN STANDARDS**

**TABLE OF CONTENTS**

<u>Section</u>	<u>Page</u>
<b>DIVISION 1 GENERAL REQUIREMENTS .....</b>	<b>1-1</b>
1.1 GENERAL .....	1-1
1.2 PURPOSE .....	1-3
1.3 ENGINEERING POLICY .....	1-4
1.4 DEFINITIONS AND TERMS .....	1-5
1.5 LOCATION OF UTILITIES WITHIN RIGHT-OF-WAY OR EASEMENT .....	1-10
1.6 PROVIDING FOR NEW & FUTURE DEVELOPMENT .....	1-11
1.7 TIME LIMITS FROM DRAWING APPROVAL TO CONSTRUCTION .....	1-13
1.8 PHASED DEVELOPMENT .....	1-13
1.9 PRE-DESIGN CONFERENCE/MEETING.....	1-14
1.10 DRAWING REVIEW PROCEDURE.....	1-16
1.11 CONSTRUCTION DRAWING SUBMITTAL REQUIREMENTS.....	1-20
1.12 EASEMENTS, ETC. ....	1-40
1.13 PUBLIC WORKS VARIANCES TO DESIGN STANDARDS .....	1-44
1.14 PRECONSTRUCTION CONFERENCE.....	1-46
1.15 CONSTRUCTION OBSERVATION, INSPECTION & TESTING.....	1-47
1.16 WARRANTY INSPECTIONS :.....	1-53
1.17 AS-BUILT DRAWINGS .....	1-54
 <b>DIVISION 2 STREETS.....</b>	 <b>2-1</b>
2.1 PURPOSE .....	2-1
2.2 APPLICABILITY .....	2-1
2.3 SPECIAL ITEMS.....	2-3
2.4 APPROVAL OF ALTERNATE MATERIALS AND METHODS.....	2-3
2.5 CONSTRUCTION DRAWINGS.....	2-4
2.6 CITY STANDARD DETAILS .....	2-4
2.7 EXISTING STREET CLASSIFICATIONS .....	2-4
2.8 OTHER JURISDICTIONS .....	2-5
2.9 DEFINITIONS AND TERMS .....	2-5
2.10 MATERIALS .....	2-9
2.11 IMPROVEMENT STANDARDS BY STREET CLASSIFICATION.....	2-13
2.12 STREET DESIGN MINIMUM SECTIONS.....	2-14
2.13 OVERLAYS.....	2-15
2.14 HORIZONTAL ALIGNMENT.....	2-16
2.15 MONUMENTATION .....	2-17
2.16 INTERSECTIONS & PEDESTRIAN CROSSINGS .....	2-17
2.17 VERTICAL ALIGNMENT AND STREET GRADES.....	2-20
2.18 STREET CROSS SECTIONS AND STREET CROSS SLOPES.....	2-23
2.19 GRADING WITHIN PUBLIC RIGHT-OF-WAY .....	2-23
2.20 CURBS AND GUTTERS .....	2-24
2.21 SIDEWALKS & MULTI-USE ACCESS ROUTES .....	2-25
2.22 CLEAR VISION AREA.....	2-28
2.23 CUL-DE-SACS, TURNAROUNDS .....	2-29
2.24 STUB STREETS, VEHICULAR NON-ACCESS PROVISIONS.....	2-30
2.25 TRANSITIONS.....	2-30
2.26 SUBSURFACE DRAINAGE.....	2-31
2.27 ACCESSIBLE ON-STREET PARKING.....	2-31
2.28 PARKING LOTS & LOADING ZONES .....	2-33
2.29 DRIVEWAY SPACING & LOCATION.....	2-37
2.30 DRIVEWAYS, DRIVEWAY APPROACHES, ALLEYS.....	2-37

**CITY OF JEFFERSON  
PUBLIC WORKS DESIGN STANDARDS**

**TABLE OF CONTENTS**

<u>Section</u>	<u>Page</u>
2.31 PRIVATE STREETS, COMMON DRIVEWAYS, FLAGLOTS, FIRE LANES.....	2-41
2.32 PUBLIC STREET LIGHTING .....	2-43
2.33 BARRICADES AND GUARDRAILS.....	2-44
2.34 BIKEWAYS .....	2-44
2.35 STREET SIGNS.....	2-45
2.36 CUTTING EXISTING STREETS & RESTORATION REQUIREMENTS .....	2-45
<b>DIVISION 3 STORMWATER MANAGEMENT .....</b>	<b>3-1</b>
3.1 PURPOSE .....	3-1
3.2 APPLICABILITY .....	3-1
3.3 SPECIAL ITEMS.....	3-2
3.4 APPROVAL OF ALTERNATE MATERIALS AND METHODS.....	3-3
3.5 CONSTRUCTION DRAWINGS.....	3-3
3.6 CITY STANDARD DETAILS .....	3-3
3.7 DEFINITIONS AND TERMS .....	3-4
3.8 MATERIALS.....	3-6
3.9 GENERAL DESIGN CONSIDERATIONS .....	3-11
3.10 STORM DRAINAGE DESIGN CALCULATIONS AND CAPACITY .....	3-14
3.11 OPEN CHANNELS .....	3-20
3.12 STORM DRAIN ALIGNMENT AND LOCATION .....	3-21
3.13 STORM DRAIN MINIMUM PIPE SIZE .....	3-24
3.14 STORM DRAIN MINIMUM COVER .....	3-24
3.15 STORM DRAIN MINIMUM SLOPE & ROUGHNESS COEFFICIENT .....	3-24
3.16 UNDERGROUND WARNING TAPE & TONING / TRACER WIRE .....	3-26
3.17 STORM MANHOLES AND CATCH BASINS .....	3-26
3.18 WORK ON or CONNECTION TO EXISTING STORM DRAIN MAINLINES .....	3-30
3.19 DETENTION FACILITIES .....	3-32
3.20 STORMWATER QUALITY FACILITIES .....	3-41
3.21 PRIVATE STORM DRAINAGE COLLECTION SYSTEMS.....	3-47
3.22 INFILTRATION SYSTEMS, DRYWELLS AND FRENCH DRAINS.....	3-48
3.23 STORM DRAIN SERVICE LATERALS .....	3-50
3.24 PRIVATE STORM PUMP STATION SYSTEMS.....	3-52
<b>DIVISION 4 SANITARY SEWER .....</b>	<b>4-1</b>
4.1 PURPOSE .....	4-1
4.2 APPLICABILITY .....	4-1
4.3 SPECIAL ITEMS.....	4-2
4.4 APPROVAL OF ALTERNATE MATERIALS AND METHODS.....	4-2
4.5 CONSTRUCTION DRAWINGS.....	4-3
4.6 CITY STANDARD DETAILS .....	4-3
4.7 DEFINITIONS AND TERMS .....	4-3
4.8 MATERIALS.....	4-5
4.9 GENERAL DESIGN CONSIDERATIONS .....	4-12
4.10 DESIGN PERIOD .....	4-14
4.11 SEWER DESIGN BASIS & CAPACITY .....	4-14
4.12 SEWER MINIMUM SIZE .....	4-15
4.13 SEWER MINIMUM DEPTH.....	4-16
4.14 SEWER MINIMUM SLOPE & ROUGHNESS COEFFICIENT .....	4-16
4.15 SANITARY SEWER ALIGNMENT AND LOCATION .....	4-18
4.16 MANHOLES AND MAINLINE CLEANOUTS .....	4-22
4.17 WORK ON or CONNECTION TO EXISTING SEWER MAINLINES .....	4-28
4.18 SEWER SERVICE LATERALS.....	4-31

**CITY OF JEFFERSON  
PUBLIC WORKS DESIGN STANDARDS**

**TABLE OF CONTENTS**

<u>Section</u>	<u>Page</u>
4.19 PRIVATE SANITARY SEWER COLLECTION SYSTEMS .....	4-36
4.20 UNDERGROUND WARNING TAPE & TONING / TRACER WIRE .....	4-38
<b>DIVISION 5 WATER DISTRIBUTION .....</b>	<b>5-1</b>
5.1 PURPOSE .....	5-1
5.2 APPLICABILITY .....	5-1
5.3 SPECIAL ITEMS.....	5-2
5.4 APPROVAL OF ALTERNATE MATERIALS AND METHODS.....	5-2
5.5 CONSTRUCTION DRAWINGS.....	5-3
5.6 CITY STANDARD DETAILS .....	5-3
5.7 DEFINITIONS AND TERMS .....	5-3
5.8 MATERIALS .....	5-6
5.9 GENERAL DESIGN CONSIDERATIONS .....	5-20
5.10 WATER SYSTEM CAPACITY .....	5-22
5.11 LOOPING .....	5-23
5.12 BLOWOFFS.....	5-24
5.13 MINIMUM DEPTH .....	5-24
5.14 MINIMUM MAINLINE SIZE.....	5-25
5.15 WATERLINE ALIGNMENT AND LOCATION .....	5-26
5.16 VALVES .....	5-29
5.17 FIRE HYDRANTS.....	5-31
5.18 AIR RELEASE VALVES .....	5-34
5.19 WATER SERVICE LINES & METER LOCATION REQUIREMENTS.....	5-35
5.20 WATER METERS .....	5-40
5.21 PRIVATE WATER SYSTEMS .....	5-45
5.22 BACKFLOW PREVENTION.....	5-45
5.23 UNDERGROUND WARNING TAPE & TONING / TRACER WIRE .....	5-47
5.24 MAINLINE BORED CROSSINGS .....	5-48

**APPENDICES**

**APPENDIX A – STANDARD DETAILS & SAMPLE TEST REPORT FORMS**

NOTE: Table of Contents for the City standard details & sample test forms is included after the Appendix A cover sheet.

**APPENDIX B - Standard Construction Notes**

**APPENDIX C - Utility Companies and Agencies**

**APPENDIX D - Standard Easement Forms, Etc.**

**APPENDIX E - Sample Insurance Certificates**

**APPENDIX F - Adopting Ordinance & Resolutions**

**APPENDIX G - Construction Drawing Review, Public Works Permit, Construction Requirements & Procedures**

**-Section 01300 – Construction Submittals**

**CITY OF JEFFERSON  
PUBLIC WORKS DESIGN STANDARDS**

**TABLE OF CONTENTS**

Section

Page

**APPENDIX H – Stormwater Detention Systems, Purpose & Example Summary**

**APPENDIX I – Single Lot Private Sewer Pump Station Standards (*where allowed on case-by-case basis*)**

## PREFACE

These design standards (PWDS) have been developed by the City of Jefferson to provide a uniform set of standards for public improvements. The intent of these standards is to provide guidelines for the construction of public facilities that will provide an adequate service level for the present as well as for future development. The format has been kept brief and no attempt has been made to cover all possible situations or to provide lengthy explanations.

These design standards (PWDS) are intended to be used in conjunction with the City's PWCS - Public Works Construction Standards (*ie. the Oregon Standard Specifications for Construction – OSSC (ODOT/APWA), most recent edition except as otherwise noted herein*). The PWCS are subject to the material, equipment and other provisions specified in these PWDS. In the event of discrepancies between the requirements in these PWDS and the Public Works Construction Standards (PWCS) or between the text of these PWDS and the City standard details, the more stringent requirements as determined by the Public Works Director shall apply.

Copies of these PWDS can be obtained from City of Jefferson, Oregon , PO Box 83 , Jefferson, OR 97352 .

It is anticipated that revisions to the design standards will be made from time to time. The date appearing on the title page is the date of latest revision of the text portion of the standards. The date appearing on the details is the date of latest revision of that particular detail.