

INTRODUCTION

This manual, in conjunction with the latest edition of the APWA manual of standard plans and the currently adopted City ordinances, establishes requirements for the preparation, processing and approval of improvement plans for public works projects. Preparation of improvement plans and specifications that conform fully with the requirements outlined in this manual will expedite the processing, reviewing, and approval of the submitted improvement plans by Herriman City.

All local, Municipal and State laws and rules and regulations governing or relating to any portion of this work are to be incorporated into and made a part of all plans and specifications and their provisions shall be carried out by the Developer and Contractors. Anything contained in these specifications shall not be construed to conflict with any of the ordinances and regulations of the City; however, these specifications take precedence over the requirement of said rules and regulations when they describe materials, workmanship or construction of a higher standard or larger size.

It is the intent of Herriman City to continually improve this manual. On a periodic basis, proposed supplements, revisions and amendments will be reviewed and adopted.

Copies of this manual are available for purchase from Herriman City, 13011 South Pioneer Street, Herriman, Utah 84096, during normal working hours.

SUMMARY OF CHANGES

All changes in this document have been updated to reflect City Council current adoptions. In the text all underlined items show updates to the standard and all text strike through represent deletions to the standards. All items added or changed in any way to the standard plans have been shown by revision clouds. The list below is a synopsis of all changes made.

- 1.01** **Plan Review Flow Chart:** Added Environmental Assessment for all flow charts.
- 1.02.15** **Environmental Site Assessment:** New Section on development in contaminated agricultural land.
- 2.01.01.07** Addition of environmental site assessment submittal requirement.
- 2.01.02.05** Addition of environmental site assessment submittal requirement.
- 2.01.03.10** Addition of environmental site assessment submittal requirement.
- 2.01.04.10** Addition of environmental site assessment submittal requirement.
- 2.04** **Electronic File Requirements:** Updated file format.
- 2.04.01** **File Content and Layering:** Addition of street light layers.
- 2.08** **Inspection:** Update and addition of inspection procedures.
- 2.09** **Partial Bond Release:** Addition of a partial release.
- 2.10** **System Substantial Completion Bond Release:** Clarify intent of substantial releases.
- 2.11** **Final Completion:** Clarify intent of final completion.
- 2.12** **Guarantee of Work:** Addition of money in lieu of fixed warranty work.
- 3.18** **Street Light Plans:** Addition of street light plan requirements.
- 4.01.13.02** Provision for possible reduction in right of way requirements.
- 4.01.13.22** Addition of asphalt design requirements.
- 4.01.14** **Street Lights.** Multiple changes to installation requirements on street lights.
- 4.02** **Traffic Impact Study Guidelines.** Clarify requirements.
- 4.03.21** Requirement of video inspection for storm drain line.
- 4.06** **Culinary Water System Design.** Clarify requirements and incorporation of administrative orders.
- 4.08.03** Remove sprinkler heads.
- 4.08.04.13** Clarification of requirements.
- 4.08.04.14** Clarification of requirements.
- 4.08.05** Remove Double Check Valve Assembly for Backflow prevention option.
- 4.11.09** Park Sign requirements.
- 4.16.02.02.d** Clarification of requirements.
- 4.17** **Environmental Site Assessment.** Detail process for Environmental Site Assessments.
- Section 5** Update water setter part numbers.
- Section 5** Add the waterous fire hydrant.

Section 6	Numerous drawings have been updated to incorporate similar line weights, text and hatching, below is a list of all drawings that have had new or altered information.
RD-07	Update street light spacing.
RD-08	Add Residential Street Light Conduit and Power Layout Details.
RD-09	Add Residential Street Light Detail.
RD-10	Add Commercial Street Light Conduit and Power Layout Details.
RD-11	Add Commercial Street Light Detail.
CW-01	Update part numbers.
CW-02	New trench Detail.
CW-07A	Update information.
CW-07B	Update Information.
CW-08	Detail Collars.
CW-10	Detail Collars.
CW-11	Update vault and part numbers.
CW-12	Update vault information.
CW-13	Update Manhole or Cone Section.
CW-14	Update Manhole or Cone Section.
SW-01	New Details on services and stop and waste boxes.
SW-02	Update Air-Vacuum relief valve detail.
IR-03A	New Double Check Valve Assembly.
IR-03B	New Reduced Pressure Backflow Assembly.
IR-04	New Control Valve Detail.
IR-14	New Master Valve Detail.
IR-15	New Flow Sensor Detail.
LP-03	Additional Gate Detail.
LP-04	New Trail Detail.

<u>SECTION</u>	<u>TITLE</u>	<u>Page</u>
	Introduction.....	i
	Summary of Changes.....	ii
 SECTION 1: GENERAL APPROVAL PROCEDURE		
1.01	Plan Review Flow Chart.....	1-1
1.02	Approval Procedure.....	1-5
 SECTION 2: GENERAL IMPROVEMENT REQUIREMENTS		
2.01	Improvement Plan Submittal Requirements.....	2-1
2.02	Contractor/Developer.....	2-4
2.03	Engineer’s Seal Required.....	2-4
2.04	Electronic File Requirements.....	2-5
2.05	Bonding Information.....	2-6
2.06	Engineering Permits.....	2-7
2.07	Pre-Construction Conference.....	2-8
2.08	Inspection.....	2-8
2.09	Partial Bond Release.....	2-11
2.10	System Substantial Completion Bond Release.....	2-11
2.11	Final Completion.....	2-12
2.12	Guarantee of Work.....	2-12
2.13	Development Safety.....	2-13
 SECTION 3: PLAN SET FORMAT REQUIREMENTS		
3.01	General.....	3-1
3.02	Title Sheet.....	3-1
3.03	Metes and Bounds Plat.....	3-2
3.04	Dedicated Plat.....	3-2
3.05	Mylar Plat.....	3-6
3.06	Project Overview Map.....	3-6
3.07	Street Improvement Plans and Profiles.....	3-7
3.08	Grading and Drainage Plans and Profiles.....	3-7
3.09	Storm Drain Plans and Profiles.....	3-9
3.10	Culinary Water Plans.....	3-10
3.11	Utility Overview Sheet.....	3-10
3.12	Erosion Control Plans.....	3-11
3.13	Irrigation Plans.....	3-11
3.14	Landscaping Plans.....	3-11
3.15	Traffic Signing, Striping, and Control Plans.....	3-12
3.16	Details and Typical Sections.....	3-13
3.17	Secondary Water Plans.....	3-13
3.18	Street Light Plans.....	3-13

SECTION 4: DESIGN REQUIREMENTS

4.01	Street Design.....	4-1
4.02	Traffic Impact Study Guidelines.....	4-12
4.03	Storm Drain Design	4-20
4.04	Grading and Drainage Design.....	4-22
4.05	Erosion Control Design.....	4-23
4.06	Culinary Water System Design.....	4-24
4.07	Irrigation and Planting of Parks and Streetscapes.....	4-27
4.08	Irrigation System Design	4-31
4.09	Landscape Design	4-39
4.10	Playground Equipment Specifications.....	4-46
4.11	Park Equipment Specifications	4-48
4.12	Easements and Agreements	4-48
4.13	Surveying/Staking.....	4-49
4.14	Vinyl Fence Specification (Privacy and 4-rail Fencing).....	4-50
4.15	Precast Concrete Fence Specifications	4-52
4.16	Secondary Water System	4-55
4.17	Environmental Site Assessment.....	4-58

SECTION 5: STANDARD SPECIFICATIONS

Introduction

Index

Amendments to the APWA

SECTION 6: STANDARD PLANS

Introduction

Index

Amendments to the APWA

APPENDIX A: Bond Agreements

Escrow

Irrevocable Letter of Credit

Cashier's Check