

## **2024 PUBLIC WORKS MANUAL – SUMMARY OF CHANGES FROM 2023 VERSION**

### **Changes to Appendix 2-A Mods to MPWSS**

- Section 02600
  - Removed the service line repair section and included that language in Chapter 4.
  - Added Kennedy valves as an approved valve for gate valves and butterfly valves.

### **Changes to Appendix 2-A Mods to MPWSS**

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### **Changes to Appendix 2-B – Standard Drawings**

- STD-408 – Added requirement for hydrant bonnet to be painted blue.
- STD-412 – Added a composite lid requirement.
- STD-417 – Updated references to manual.
- STD-614 – Added requirement to have mastic between grade rings and frame.
- STD-616 – Added requirement to have mastic between grade rings and frame and a note that dry wells are not allowed in commercial approaches.
- STD-650 – Updated the requirement for gravel material.
- STD-653 – Updated notes for consistency.

## **Chapter 3 Summary of Changes**

- 3.1.3.C Expanded explanation on Stage submittal and approval deadlines.
- 3.2.2.A.7 Specified street lights must be highlighted on demo plans.
- 3.3.5 Specified that a meeting with City Engineer is required prior to determining Traffic Impact study scope.
- Appendix 3-E Clarified Improvement Agreement fee must be paid prior to filing of the IA.
- Appendix 3-B
  - Stage 1
    - Checklist is removed.
  - Stage 2
    - Updated what projects need a Stage 2 submittal.
    - Updated submittal and communication is via Accela system.
    - Removed most items from the Checklist.
  - Stage 3
    - Reinforced requirement to have project number.

- Specified all infrastructure submitted in one pre-construction plan submittal.
- Specified all projects will use the City's Accela system's PWI record.
- Removed design requirements from Checklist as they are detailed in the Missoula City Public Works Standards & Specifications manual.
- Stage 4
  - Reinforced that Stage 4 submittal must fully address Stage 3 comments.
  - Updated submittal requirements.
  - Reinforced requirement for a pre-construction meeting.
  - Updated checklist, removed most items.
  - Updated Applicants Certification.
- Stage 5 Reinforced that a Stage 5 full submittal required prior to inspection/walkthrough.
  - Updated Conditional Acceptance requirements and warranty period.
  - Updated checklist.
  - Specified all easements need to be notarized and stamp/signature of surveyor.
- Stage 6
  - Summarized the purpose of Stage 6
  - Detailed City's Conditional Acceptance requirements
  - Specified all projects will use the City's Accela system's PWI record.
  - Specified all easements need to be notarized and stamp/signature of surveyor.
  - Updated Developer Representative's Acceptance Certificate – Utilities.
- Stage 7
  - Updated Inspection Results sheets, removed most checklist items.

## **Changes to Chapter 4**

- Section 4.2.5 – Clarified in Wet Utility Main Best Practices that stormwater mains can be under the curb and closer to trees.
- Section 4.2.11.C – Added a note about adding dimensions to ditch cards so curb stop can be located in the field.
- Section 4.2.13 – Updated requirements for service line abandonment which will now require sectioning out the tee for services greater than 2 inches and removing the corp and installing a repair band or a re-tapping band for services 2 inches and smaller.
- Section 4.3.8 – Clarified that service stubs need to stop within 5 feet of an easement (not just a property line like currently written).

## **Changes to Chapter 5**

- Section 5.3.3.A - Clarified that service stubs need to stop within 5 feet of an easement (not just a property line like currently written).
- Section 5.3.4.B – Clarified that manholes with “less than” 45 degree change have a 0.1-foot drop and “greater than” 45 degrees have a 0.2-foot drop.

## Changes to Chapter 6

- Section 6.2.3.A – Added section about using software for stormwater routing and providing a node diagram from the stormwater routing.
- Section 6.2.3.B.4 – Added a requirement to include photos of infiltration testing equipment and clarified the maximum infiltration rate that can be used when head is not achieved during a test.
- Section 6.2.3.B.7 – Clarified when pretreatment is required.
- Section 6.2.3.B.10 – Modified groundwater testing to match proposed DEQ-8 language.
- Section 6.3.5.E and 6.3.7. E – Modified flow velocities to match proposed DEQ-8 language.
- Section 6.3.11.A – Added a classification of infiltration facilities.
- Section 6.3.11.E – Added a section on shallow infiltration facilities.
- Section 6.3.11.H – Clarified that dry well volume shall not be counted toward overall site detention volume.
- Appendix 6-C – Added clarification that *Montana Post-Construction Storm Water BMP Design Guidance Manual* calculations need to be provided.

## Summary of Change to Chapter 7 – Transportation System

The following list summarizes the proposed changes for 2024, organized by section. This summary does not include minor changes associated with spelling/syntax, list clean up, etc.

- 7.1.1.U – Updated “NCHRP Report 672, Roundabouts: An Informational Guide” to “NCHRP Report 1043, Guide for Roundabouts,” adopting the latest guidelines for modern roundabouts.
- 7.1.1.W – Added “NCHRP Report 1036, Roadway Cross-Section Reallocation: A Guide” as a forthcoming reference for potential new TIS requirements regarding 24-hour capacity analyses.
- 7.2.2.E.10.d – Added clarification for the need to separate photometric calculation areas for specific elements within the right-of-way (i.e., requiring separate calcs between curbs and/or within traveled way, adjacent ped/bike facilities, and crosswalks).
- 7.2.3.A – Added content giving the City Engineer the ability to require counts and analyses for 24-hour capacity performance measures in traffic impact studies.
- 7.4.6 – Added standards for alleys related to necessary fire truck access and the requirement for alleys in new subdivisions unless lots are of a sufficient width to meet the needs of City’s Complete Streets Policy without alley access (suggested minimum lot widths are provided).
- 7.4.7.B – Added clarifying language related to development requirement to install half street improvements as well as the City Engineer’s ability to require opposite side curb and gutter.
- 7.4.10.D.3-5 – Added street lighting design priorities to clarify and aid lighting designers in how to approach street lighting photometric needs within the City’s competing and sometimes contradicting illumination standards.
- 7.4.11.J.3 – Removed asphalt patch seam sealant “spec” and referenced the updated City of Missoula Standard Modifications to MPWSS Section 02510, which now contains clearer asphalt patch seam sealing specifications.