

SUMMARY OF PUBLIC WORK STANDARD SPECIFICATION REVISIONS – 2018

STANDARD SPECIFICATIONS

Article 101 Definitions

Added definition of Particulate Matter for reference in section 107.6 Dustproofing.

102.4 Proposals

Updated to specify bids can be submitted electronically, by hand or mail.

102.10 Prevailing Wage

Deleted this section as this does not apply to most PW projects. Prevailing wages will be included in special provisions if needed.

102.11 Affirmative Action

Included language on submission of Monthly Employment Utilization Reports and Committed Cost Status Reports.

102.12 Best Value Contracting

Revised for clarity.

104.5 Increased Items

Contract increases shall be limited to 15% of the original contract unless approved by the City Engineer.

105.7 Contract Documents

The City will make electronic files available to the contractor vs. printing documents for the contractor.

107.1 Public Convenience and Safety

Specify that sidewalk closed signs shall be placed at the nearest cross walk in advance of closure.

107.4(i) Insurance for the Construction of Buildings and Structures

This section was revised to include new and existing facilities, including renovation.

107.6 Dustproofing

Added language to mirror the new Ordinance language on Dust Control.

107.7 Maintenance of Traffic

Added language often found in special provisions. Clarified message boards, arrow boards, tubular markers and temporary tape pavement markings are paid for separately.

108.2 Permits and Licensing

Added language about Erosion Control permit and refers to new section 210.6.

109.9 Liquidated Damages

Increased the amount of liquidated damages. The last increase was in 2011.

110.2 Partial Payments

Added wording that demographic information is needed at 25% payment or second payment, whichever comes first. Added paragraph on payment to satisfy State Statutes.

110.5 Acceptance and Final Payment

Removed reference to State Statute and prevailing wage. Added language requiring demographic information and committed cost status report.

201.1 Excavation

Defined rock excavation include: drilling and blasting; hydraulic breaker; grinding (trencher). It does not include use of ripper. This matches rock excavation in Part V.

201.3, 201.4 Underdrain

Corrected references to WISDOT specifications.

203.2, 205.2, 212.3, 302.3, 503.2f, 503.4b

Reference to 1600 Emil St vs. 1602 Emil St were corrected. Deleted slurry type B.

210.6 Erosion Control Implementation and Enforcement

Adds authority to City's enforcement of Erosion Control measurements.

211 Terrace Rain Garden

Added language to include an 8' hand poured section of curb with a 2' curb cut and a 2'x2' concrete flume.

212.3 Placing Grouted Rip Rap

Typo. Corrected a reference to another section of the specifications.

301 Concrete

Revised to match sections of WISDOT

301.9 Slurry

Deleted the Type B slurry.

302.2d Curb & Gutter Joints

Curb and gutter placed adjacent to concrete pavement should only have expansion joints aligning with expansion joints in the concrete pavement.

303.2b Sidewalk Forms

Added seven (7) inches to the requirement for height of forms.

402.1 Materials For Asphalt Construction

Revised mix types for HMA to follow those of the DOT. Added language referencing 3% air voids for design mixes.

402.3 Asphalt Pavement

Revised to follow DOT nomenclature for mixes. E-mixes are no longer referenced.

403.1 Resurfacing General

Revised to simplify as language in this section is included elsewhere in the specifications.

403.5 to 403.7 Asphalt Tack, Lower Layer and Upper Layer

Deleted language repetitive language from DOT specifications.

403.8 Asphalt Base Patch

Revised to follow DOT spec for mix design nomenclature. E-mixes are no longer referenced.

403.11 SAS Adjusting Ring

Clarified ring is supplied by City of Madison.

403.16 Valve Box Adjustments – Resurfacing

Revised reference to correct section in Part 7

403.21 & 22 Resurfacing curb & gutter and sidewalk

Deleted repetitive language referenced in other sections of the specifications.

- 404.1 Concrete Pavement
Revised to reference WISDOT in some sections.
- 404.3 Concrete Pavement Joint Sealant
Added section for sealing concrete pavement joints.
- 404.5 Placement of Concrete Pavement
Typo. Corrected reference to DOT specification.
- 405.3 Infrared Seamless Patching
Revised to match WISODT HMA designations.
- 408 Pavement Chip Seal
Removed the use of Black Boiler Slag as an approved product. Granite is and approved product.
- 409 Mill & Overlay/Patching Criteria
Inserted long used criteria into the standard specifications.
- 502.1 Rock Excavation
Defined rock excavation include: drilling and blasting; hydraulic breaker; grinding (trencher). It does not include use of ripper. This matches rock excavation in Part II.
- 502.1d Bedding of Sewer Pipe
Corrected reference to SDD.
- 503.2b PVC and fittings
Added requirement for a rubber gasket to match section 503.3(d).
- 503.3c Sanitary Sewer Lateral
Clarified specification that the wye is not included in the item reconnect. The wye is included with the installation of the main. Added language for use of C900 pipe for lateral.
- 503.3(d) Sanitary Sewer Wyes
Both long and short body wye ductile iron fittings are acceptable for PVC pressure pipe installations where there is less than 8' of horizontal separation from water main. AWWA C900 fittings are acceptable if the horizontal separation between sewer and water is over 8'.
- 503.4b Sanitary Sewer lateral
Added payment for pressure rated sanitary sewer lateral
- 504.2f Poly (Vinyl Chloride) Pressure Pipe
Clarified fittings for pressure pipe.
- 504.2(l) Joint Ties
Added language that states a RCP section of pipe must be used to connected to RCP Apron Endwall when TYPE II plastic pipe is specified. Metal joint ties added back into spec.
- 504.2p CMP
Format correction.
- 509.7(a) CIPP Samples
Added APS Water Tightness Test, to required samples testing, to replace Gravity Pipe Leakage Test

Summary of Potential Water Utility Standard Specification Revisions

1. Require adjustment clearance between top of valve box and first extension to allow for future downward adjustment.
2. 2" Blow offs standardized connection with rigid pipe at least 5' above grade.
3. Clarify polyethylene wrap around corp connections to main (match SDD).
4. Install ½" expansion joint around hydrant barrel when set in a concrete slab.
5. Convert 'Landscape Restoration for Water Main' a lump sum bid item.
6. Turf restoration is currently incidental to copper lateral work - modify language to include large DI services.
7. HDD tracer box required to be placed at HDPE/DI transition, allow grounding wire in box for temporary wire extension, if needed.
8. Top of curb rod depth shouldn't be more the 4' deep to access with standard key.
9. Clarify flushing GPM vs pipe size and WU/Contractor responsibilities. Potentially reduce flow rate requirements for chlorine flushes.
10. Adjust existing valve box item, clarify expectations regarding re-centering over the nut – better ID full replacement boxes at time of bid.
11. WU to furnish a specific length of flushing hose (300-FT) Contractor to provide any additional, if needed.
12. Add language allowing pressure testing at service tap or rigid blow-off if Contractor elects to utilize in lieu of hydrant test location.
13. Talk about direct tapping 1.5 – 2 inch will be required in 2019, add language to convey upcoming requirement. Also, tapping machine manufacture doesn't suggest tapping these sizes onto 6 inch CI.
14. Add cautionary disclaimer for cut-in connection/pressurized main risk of blow-offs, work to be performed in accordance with DIPRA/AWWA recommendations.
15. Clarify compaction expectations around valve boxes.
16. Consider use of compact body fittings – evaluate pricing implications as alternate on some jobs.
17. Consider 2-YR warranty/extended warranty on water installations due to expense of repairs.

BID ITEMS

Revised or New Items

40201	HMA Pavement 3 LT 58-28 S	TON
40202	HMA Pavement 4 LT 58-28 S	TON
40203	HMA Pavement 3 MT 58-28 S	TON
40204	HMA Pavement 4 MT 58-28 S	TON
40205	HMA Pavement 4 MT 58-28 H	TON
40206	HMA Pavement 3 HT 58-28 S	TON
40207	HMA Pavement 4 HT 58-28 S	TON
40208	HMA Pavement 2 HT 58-28 H	TON
40209	HMA Pavement 3 HT 58-28 H	TON
40210	HMA Pavement 4 HT 58-28 H	TON
40211	HMA Pavement 4 HT 58-28 V	TON
40218	TACK COAT	GAL.
40219	SEAL COAT	GAL.
50355	SANITARY SEWER LATERAL - PRESSURE PIPE	L.F.

Deleted Items

40201	HMA PAVEMENT TYPE E-0.3	TON
40202	HMA PAVEMENT TYPE E-1	TON
40203	HMA PAVEMENT TYPE E-3	TON
40204	HMA PAVEMENT TYPE E-10	TON
40205	HMA PAVEMENT TYPE SMA	TON

DETAIL DRAWINGS

REVISED OR NEW

2.01 Tree Planting in Turf Area

2.09 Raingarden & Bio-Retention Detail
Removed note that c&g had to be hand poured.

4.02 Typical Section Various Width Streets
Revised base course and HMA pavement thickness.

4.06 Pavement Design Criteria
Revised base course and HMA pavement thickness.

4.08 Typical Bike Path
Topsoil depth is 6" and gravel base is 8"

SDD 5.7.12A Terrace Inlet Type 2
Added language for hand forming curb and gutter.

SDD 5.7.12B Terrace Inlet Type 3
Added language for hand forming curb and gutter.

SDD 5.7.12C Terrace Inlet Type 4
Added language for hand forming curb and gutter.

SDD 5.7.12D Terrace Inlet Type 5
Added language for hand forming curb and gutter.

SDD 5.7.24 R-3067-7009 Curb Box
Title block changed from R-3067 CDS curb box to R-3067-7009 to update S.D.D. to correct Neenah casting number.

5.7.30 Inside Drop For Sanitary Main And Lateral
Inlet pipe is encased in concrete and a 45° bend vs. 90° bend and pipe top is cut away. Added 4
- #4 rebar bars to anchor concrete collar to structure bench.

SDD 6.09 CONDUIT PLACEMENT DETAILS FOR COMMERCIAL DRIVE APPROACH
Revised drawing to separate PVC sections with rebar.

SDD 6.12 LB-1 BASE DETAIL
Revised drawing to change anchor bolt extension above base from 2 inches to 3 inches.

SDD 6.14 LB-3 BASE
Revised drawing to state that base section, below the square formed section, may be 20 inch
diameter, instead of existing wording that stated that base may be dug with 20 inch diameter
auger below the squared formed top section.

SDD 6.19 LB-8 BASE
Revised drawing to state that base section, below the square formed section, may be 26 inch
diameter, instead of existing wording that stated that base may be dug with 26 inch diameter
auger below the squared formed top section.

DELETED
NONE