

2004 EDITION CHANGES TO STANDARD SPECIFICATIONS

PART I

Modified content

Definitions

- Bid Bond was Proposal Guaranty
- Payment and performance Bond was Contract Bond
- Limited Liability was added to definitions

References to Director of Public Works was removed. All references are to Engineer (City Engineer)
Update Ordinance and Statute References
Bids remain open for 40 days not 35 days.
City to submit N.O.I. to DNR for Public Works contracts.
Liquidated Damage amounts were revised similar to D.O.T.
Final project acceptance

PART II

New standard items

- Crushed Stone Base Course (name change only)
- Breaker Run
- Heavy Riprap
- Heavy Riprap Filter Fabric
- Geotextile Fabric Type SAS Non Woven
- Underdrain
- Abandon sanitary sewer pipe with plugs & with slurry
- Seed mixes
- Erosion matting class # & type #
- Clear stone berms, construction entrance, terrace restoration - new standard items

Modified content

Excavation Cut includes typical language from Special Provisions
Sawcut Asphalt and concrete includes typical language from Special Provisions
Remove sewer access structure - select fill required to fill void included
Abandon sewer access structure – modified language – salvaged casting delivered to ESB
Adjust sewer access structure – modified language
Soil Stabilizers required with all seed mixes

PART III

New standard items

- 1 1/3 Epoxy coated dowel changed to 1 1/4 Epoxy coated dowel
- Epoxy Coated Bar Steel Reinforcing (L.F.)
- Lannon Stone Retaining Wall
- Reset monument
- Type "D", "E", "G", "H" concrete curb & gutter
- Hand formed concrete curb and gutter (tree locations)
- Profile sawcut

Modified content

concrete cold weather protection
 c&g base is 1.5" stone
 sidewalk base is screenings, sand or crushed aggregate not select fill
 use of sealants at joints with buildings and walls, etc.
 percent wear is same as D.O.T.

PART IV

New standard items

These items are part of the resurfacing program. They are now standard to the specifications

Tack & Seal Coat
 Machine Laid Asphalt Curb
 Asphalt Material For Curb Front Fill
 Grinding, including base patch grinding
 Pulverize & Shape
 Undercut
 Asphalt Base Patching
 Pavement joint grinding
 Adjusts & Rebuilds for Resurfacing
 Remove and replace curb & gutter, machine and hand placed
 Remove and replace 5" & 7" sidewalk
 Ramping SAS
 Asphalt drive and terrace
 SAS adjusting ring

Modified content

Bituminous replaced with HMA Pavement (Asphalt) and V mixes have been replaced with E mixes
 Prime coat removed
 Heater-scarifying & Rejuvenating agent removed
 Breaker Run spec
 information required on tickets for stone and asphalt
 PG asphalt
 aggregate wear per D.O.T.
 upper and lower layers were surface and binder (name change)
 one set of yields for upper and lower layers
 tack rate of application
 under yield monetary penalty

PART V ***Entire part has been reorganized and new bid item numbers assigned

New standard items

Reinforced Concrete Box Culvert roof repair, Type I and Type II
 Reconstruct bench and flowline(s)
 Dewatering (Type 1 incidental to project, Type 2 lump sum for completed work)
 Select backfill for storm sewer
 Select backfill for sanitary sewer
 Sanitary sewer pipes – new standard numbers for different types of pipes
 Sanitary lateral
 Reconnect Sanitary Lateral
 Compression coupling
 Wastewater control
 Storm sewer pipes – new standard numbers for different types of pipes

Box culverts and wingwalls
Storm sewer gates separate items including RC AE, HERCP AE, and box culvert gates
Internal chimney seals – added low density polyethylene internal barrier
Structures and inlets with salvaged castings
Saddled inlets, terrace inlets and curb outlet structures
Sanitary sewer connections – outside drops and taps
Storm sewer connections – taps including specifications for Private connections
ULOS, concrete supports and reinforced concrete beam support

Modified content

Sanitary sewer testing after water main and services installed
PVC Repair Coupling added as repair option for broken or cracked PVC pipes
Rock excavation criteria changed to 1 c.y.
Utility Trench Patch – Type III – added maximum depth for asphaltic pavement
Ductile & cast iron pipe removed as standard pipe types for sewer
Standardized naming of inlet castings
Steps not allowed in SAS

PART VI

no changes

PART VII ***Entire part has been reorganized and new bid item numbers assigned

Modified content

Resilient wedge gate valves are now required.
Minimum amount of bearing area is specified and required for concrete thrust blocks.
Mega-lugs are required on all hydrant installations.
More specific language is provided regarding bedding and backfilling requirements.
Pressure testing requirements are more specific.
More “Furnish and Install” pay items are included in City Contracts.
Name changes to pay items in City Contracts.
City will dechlorinate water flushed from new main installations near lakes or other sensitive water bodies with assistance from Contractor

PART VIII

Series 2

SDD 2.06 TYPICAL FIELD STONE RETAINING WALL

This detail was moved to this section from section 5

SDD 2.06 PROPER PRUNING CUTS HEADING BACK/BRANCH REDUCTION DELETED

Series 3

SDD 3.02 MADISON STANDARD CURB CUT DETAILS

Deleted reference to section 303.2 k.

SDD 3.03 MADISON STANDARD SIDEWALK RAMPS

Modified

SDD 3.04 MOUNTABLE MEDIAN ISLAND NOSE DETAIL

New details.

SDD 3.05 CURB & GUTTER DETAIL AT END OF CUL-DE-SAC

Digitized

SDD 3.07 MADISON STANDARD CONCRETE CURB & GUTTER

Type X Driveway Section modified to include more dimensions and Type X Pedestrian Ramp Section added.

SDD 3.09 MADISON STANDARDS COMMERCIAL DRIVE DETAILS

Granular base increased from 2" to 6" and maximum grade reduced from 12% to 8%

SDD 3.10 LONGITUDINAL JOINTS AND PAVEMENT TIES DETAIL

New detail

SDD 3.11 DOWELED CONCRETE PAVEMENT DETAIL

New detail

SDD 3.12 MADISON STANDARD SECTION CORNER MONUMENT

New detail.

Series 4

SDD 4.01-4.03 TYPICAL STREET SECTIONS

Updated pavement types and thicknesses.

SDD 4.05 TYPICAL SECTION WITH UNDERDRAINS

Modified reference to WDOT spec book

SDD 4.06 PAVEMENT DESIGN CRITERIA

Modified reference to WDOT FDM

SDD 4.07 TYPICAL SECTION BIKE PATH

Detail was revised to include two typical cross-sections: crowned pavement and a uniform cross slope. Asphaltic pavement type modified to Type E-0.3

SDD 4.08 GRINDING DETAIL

Detail "B" grinding depth dimension was modified to 1.75" minimum.

Series 5 * All details have been renumbered**

SDD 5.1.2 RCBC REPAIR TYPE I & TYPE II

This is a new detail.

SDD 5.2.1 STORM AND SANITARY SEWER BEDDINGS

Changed pipe types to RCP & Plastic. Minimum depth of bedding above the bottom of pipe was revised to O.D./2 for all pipe types. Minimum width of trench added for plastic pipes.

SDD 5.2.1 STORM AND SANITARY SEWER BEDDINGS

Changed pipe types to RCP & Plastic. Minimum depth of bedding above the bottom of pipe was revised

SDD 5.2.3 TYPICAL PAVEMENT PATCH DETAILS

We added maximum asphaltic pavement requirement. Surface Course references changed to Upper Layer.

SDD 5.3.3 COUPLING DETAILS

Changed name of detail and added a Gasketed Repair Coupling

SDD 5.5.1 BOX CULVERT WINGWALL

The fill notes were modified to reflect the new SDD 5.5.2, Riprap at Box Culvert Wingwalls.

SDD 5.5.2 RIPRAP AT BOX CULVERT WINGWALLS

This is a new detail.

SDD 5.6.2 BOX CULVERT INLET GRATE (UPSTREAM)

We modified the hinge design, removed the hinges from the bottom of the grate, corrected dimensions in the chart, and specified uniform materials for the framing members. The concrete blocks have been replaced with an extension of the steel framing member welded to a steel plate.

SDD 5.7.1 SANITARY SEWER CAST-IN-PLACE SAS

Steps requirement has been removed.

SDD 5.7.2 SANITARY SEWER PRECAST SAS

Steps requirement has been removed. Centered cone standard unless otherwise specified.

SDD 5.7.3 STORM SEWER SAS AND CATCH BASINS

Catch basin, Access Structures and Thru Access Structures have been removed and replaced with a new Sewer Access Structure detail.

SDD 5.7.4 STORM SEWER 6'X6' CATCH BASIN

Detail name changed and reference to castings.

SDD 5.7.5 STORM SEWER PRECAST SAS (THROUGH SECTION VIEW)

Steps requirement has been removed.

SDD 5.7.15 SAS CHIMNEY AND CASTING

Steps requirement has been removed.

SDD 5.7.17 SAS INTERNAL CHIMNEY SEAL

Added requirements for use in greenways and within 100' of a street low point. Added low density polyethylene interior barrier.

SDD 5.7.22 R-3067 EL CURB BOX

This is a new detail.

SDD 5.7.23 R-3067 ER CURB BOX

This is a new detail.

SDD 5.7.24 R-3067 CDS CURB BOX

New detail for inlets castings in mountable curb in cul-de-sacs

SDD 5.0.8 STEPS DELETED

SDD 5.4.4 R-3067 TYPE "LL" GRATE DELETED

SDD 5.4.12 CATCH BASIN FRAME DELETED

SDD 5.4.13 CATCH BASIN COVER DELETED

Series 6 *** All details have been renumbered

SDD 6.12 LB-1 DETAIL

This is a new detail.

SDD 6.13 LB-2 DETAIL

This is a new detail.

SDD 6.17 LB-6 DETAIL

This is a new detail.

SDD 6.18 LB-7 DETAIL

This is a new detail.

SDD 6.19 LB-8 DETAIL

This is a new detail.

SDD 6.20 OFFSET BASE DETAIL

This is a new detail.

SDD 6.23 TYPE II HANDHOLE DETAIL

This is a new detail.

SDD 6.25 TYPE IV HANDHOLE DETAIL

This is a new detail.

SDD 6.26 TYPE V HANDHOLE DETAIL

This is a new detail.

Series 7

All details digitized.

PART IX ***This is a new Part. The changes/additions to the standard bid item numbers have been identified in the descriptions above.