Niagara College Canada – Niagara-on-the-Lake Parking Lot Reconstruction

SCHEDULE 2 - SCHEDULE OF OPSS

Only the municipal and provincial common standards in OPS Volumes 1 to 4 and the municipal-oriented specifications in OPS Volumes 7 and 8 apply to this Contract, unless specified otherwise in the Contract Documents.

Where the specification number for a tender item in the Bid Form or List of Prices is preceded by the letters OPSS, it refers to Ontario Provincial Standard Specifications (OPSS) which are current at the time of tendering. The following OPSS shall be applicable to this contract:

Description	Date
OPSS. MUNI 100	
OPSS. MUNI 106	
102 - Weighing of Materials	Oct 1992
106 - Electrical Work	Nov 2004
127 - Schedule of Rental Rates for Construction Equipment	Apr 2011
128 - Supply of Pre-Qualified Material and Products	Apr 2006
180 - Management of Excess Material	Nov 2005
182 - Environmental Protection for Construction in Waterbodies and on Waterbody Banks	Nov 2000
201 - Clearing, Close Cut Clearing, Grubbing and Removal of Boulders	Nov 2007
206 - Grading	Nov 2009
212 - Borrow	Nov 2008
310 - Hot Mix Asphalt	Apr 2011
311 - Asphalt Sidewalk, Driveway and Boulevard and for Sidewalk Resurfacing	Nov 2009
312 - Asphalt Curb and Gutter Systems	Nov 2009
314 - Untreated Granular Subbase, Base, Surface Shoulder, and Stockpiling	Nov 2004
330 - In-Place, Full Depth Reclamation of Bituminous Pavement and Underlying Granular	May 1994
350 - Concrete Pavement and Concrete Base	Mar 1998
351 - Concrete Sidewalk	Nov 2010
352 - Concrete Steps	Nov 2000
353 - Concrete Curb and Gutter Systems	Nov 2006
355 - Installation of Interlocking Concrete Pavers	Nov 2006
401 - Trenching, Backfilling and Compacting	Nov 2010
402 - Excavating, Backfilling & Compacting for Maintenance Holes, Catchbasins, Ditch Inlets & Valve Chambers	Nov 2010
403 - Rock Excavation for Pipelines, Utilities and Associated Structures in Open Cut	Nov 2010
404 - Support Systems	Nov 2010
405 - Pipe Subdrains	Nov 2008
407 - Maintenance Hole, Catchbasin, Ditch Inlet and Valve Chamber Installation	Nov 2007
408 - Adjusting or Rebuilding Maintenance Holes, Catchbasins, Ditch Inlets & Valve Chambers	Nov 2007
409 - Closed Circuit Television Inspection of Piplines	Nov 2009
410 - Pipe Sewer Installation in Open Cut	Apr 2008
412 - Sewage Forcemain Installation in Open Cut	Nov 2009
416 - Pipeline and Utility Installation by Jacking and Boring	Nov 2008
421 - Pipe Culvert Installation in Open Cut	Apr 2008
422 - Precast Reinforced Concrete Box Culverts and Box Sewers in Open Cut	Apr 2004
441 - Watermain Installation in Open Cut	Nov 2010
442 - Cathodic Protection of New and Existing Watermains	Nov 2010
450 - Pipeline and Utility Installation in Soil by Horizontal Directional Drilling	Nov 2007
460 - Pipeline Rehabilitation by Cured-in-Place Pipe	Nov 2009

462 - Cement Mortar Lining of Watermains	Nov 2009
463 - Pipeline and Conduit Installation by Pipe Bursting	Nov 2009
490 - Site Preparation for Pipelines, Utilities and Associated Structures	Nov 2010
491 - Preservation, Protection and Reconstruction of Existing Facilities	Nov 2010
492 - Site Restoration following Installation of Pipelines, Utilities and Associated Structures	Nov 2010
501 - Compacting	Nov 2010
506 - Dust Suppressants	Nov 2005
510 - Removal	Apr 2010
511 - Rip-Rap, Rock Protection and Granular Sheeting	Apr 2011
517 - Dewatering of Pipeline, Utility and Associated Structure Excavation	Nov 2010
518 - Control of Water from Dewatering Operations	Nov 2006
539 - Temporary Protection Systems	Nov 2009
602 - Installation of Electrical Chambers	Nov 2008
603 - Installation of Ducts	Apr 2010
604 - Installation of Cable	Nov 2010
609 - Grounding	Nov 2008
610 - Removal of Electrical Equipment and Materials	Nov 2008
614 - Installation of Power Supply Equipment	Nov 2008
615 - Erection of Poles	Nov 2008
616 - Footings and Pads for Electrical Equipment	Nov 2008
617 - Installation of Roadway Luminaires	Nov 2008
620 - Traffic Signal Equipment and Electrical Traffic Control Devices	Nov 2007
624 - Traffic Signal Interconnection Equipment	Nov 2007
706 - Traffic Control Signing	Nov 2010
721 - Steel Beam Guide Rail and Cable Guide Rail	Nov 2010
772 - Chain Link Fence	Nov 2010
801 - Protection of Trees	Nov 2010
802 - Topsoil	Nov 2010
803 - Sodding	Nov 2010
804 - Seed and Cover	Nov 2010
805 - Temporary Erosion and Sediment Control Measures	Nov 2010

and any other related specifications referred to in the above listed specifications.

N.B. Bidders are advised that Niagara College has adopted the Ontario Provincial Standard Specifications and Drawings for Road and Parking Lot Projects.

Copies of the relevant specifications **ARE NOT** included in this Tender, therefore, it is necessary for Bidders to obtain their own set of the Ontario Provincial Standard Specifications and Ontario Provincial Standard Drawings (OPSD).

SCHEDULE OF OPSD
(Not Included in Contract Documents)

Description	OPSD#	Date
Subdrain Pipe Connections and Outlet, Open Graded Drainage Layer	207.044	Nov 2008
Subdrain Pipe Connection and Outlet, Urban	216.021	Nov 2008
Access to Hydrant Across Ditch	217.050	Nov 2006
Light-Duty Silt Fence Barrier	219.110	Nov 2006
Rock Flow Check Dam, Flat Bottom Ditch	219.211	Nov 2006
Concrete Sidewalk	310.010	Nov 2005
Concrete Sidewalk Adjacent to Curb and Gutter	310.020	Nov 2005
Concrete Sidewalk Ramps at Intersections	310.030	Oct 1993
Utility Isolation in Concrete Sidewalks	310.040	Nov 2005
Concrete Sidewalk Driveway Entrance Details	310.050	Nov 2005
Urban, Industrial, Commercial and Apartment Entrances	350.010	Nov 2009
Cast Iron, Square Frame with Square Flat Grate for Catchbasins, Herring Bone Openings	400.020	Nov 2007
Cast Iron, Square Frame with Circular Closed or Open Cover for Maintenance Holes	401.010	Nov 2007
Aluminum Safety Platform for Circular Maintenance Holes	404.020	Nov 2008
Aluminum Safety Platform for 1500 mm Diameter Circular Maintenance Holes with Drop Pipe	404.021	Nov 2008
Aluminum Safety Platform for 1800 mm Diameter Circular Maintenance Hole with Drop Pipe	404.022	Nov 2008
Maintenance Hole Steps, Hollow	405.010	Nov 2008
Maintenance Hole Steps, Solid	405.020	Nov 2008
Pavement Reinstatement for Utility Cuts	509.010	Nov 2006
Concrete Steps, Slab on Grade with Footings	512.010	Nov 2000
Concrete Steps, Slab on Grade	512.011	Nov 2000
Interlocking Concrete Pavers on Granular Base	561.010	Nov 2006
Interlocking Concrete Pavers on Concrete or Asphalt Base	561.020	Nov 2006
Concrete Barrier Curb With Standard Gutter	600.040	Nov 2006
Concrete Mountable Curb with Narrow Gutter	600.100	Nov 2006
Concrete Barrier Curb	600.110	Nov 2006
Precast Concrete Curb	603.020	Nov 2006
45° Concrete Outlet for Concrete Curb with Gutter at End of Run	605.030	Nov 2006
Method of Termination for Concrete Curb with Gutter	608.010	Nov 2006
Catchbasin Frame with Grate Installation at Curb and Gutter	610.010	Nov 2009
Precast Concrete Maintenance Hole, 1200 mm Diameter	701.010	Nov 2009
Precast Concrete Maintenance Hole, 1500 mm Diameter	701.011	Nov 2009
Precast Concrete Maintenance Hole, 1800 mm Diameter	701.012	Nov 2009
Maintenance Hole Benching and Pipe Opening Alternatives	701.021	Nov 2009
Precast Concrete Maintenance Hole Components, 1200 mm Diameter, Tapered Top & Flat Cap	701.030	Nov 2009
Precast Concrete Maintenance Hole Components, 1200 mm Diameter, Riser & Monolithic Base	701.031	Nov 2009
Precast Concrete Maintenance Hole Components, 1200 mm Diameter, Base Slab	701.032	Nov 2009
Precast Concrete Maintenance Hole Components, 1500 mm Diameter, Transition Cone & Slabs	701.040	Nov 2009
Precast Concrete Maintenance Hole Components, 1500 mm Diameter, Riser and Bases	701.041	Nov 2009
Precast Concrete Maintenance Hole Components, 1800 mm Diameter, Transition Slabs	701.050	Nov 2009
Precast Concrete Maintenance Hole Components, 1800 mm Diameter, Riser & Base Slab	701.051	Nov 2009

Precast Concrete Adjustment Units for Maintenance Holes, Catchbasins & Valve Chambers	704.010	Nov 2009
High Density Polyethylene Adjustment Units for Maintenance Holes, Catchbasins & Valve Chambers	704.011	Nov 2008
Precast Concrete Catchbasin 600 mm x 600 mm	705.010	Nov 2009
Precast Concrete Twin Inlet Catchbasin 600 mm x 1450 mm	705.020	Nov 2009
Catchbasin Connection for Rigid Main Pipe Sewer	708.010	Nov 2006
Support for Pipe at Catchbasin or Maintenance Hole	708.020	Nov 2006
Catchbasin Connection for Flexible Main Pipe Sewer	708.030	Nov 2006
Flexible Pipe Embedment and Backfill Earth Excavation	802.010	Nov 2010
Flexible Pipe Embedment and Backfill Rock Excavation	802.013	Nov 2010
Rigid Pipe Bedding, Cover and Backfill Type 1 or 2 Soil - Earth Excavation	802.030	Nov 2010
Rigid Pipe Bedding, Cover and Backfill Type 3 Soil - Earth Excavation	802.031	Nov 2010
Rigid Pipe Bedding, Cover and Backfill Type 4 Soil - Earth Excavation	802.032	Nov 2010
Rigid Pipe Bedding, Cover and Backfill Rock Excavation	802.033	Nov 2010
Rip-Rap Treatment for Sewer and Culvert Outlets	810.010	Nov 2007
Internal Drop Structure for Existing Maintenance Holes	1003.030	Nov 2008
Internal Drop Structure for New Maintenance Holes	1003.031	Nov 2008
Sewer Service Connections for Rigid Main Pipe Sewer	1006.010	Nov 2005
Sewer Service Connections for Flexible Main Pipe Sewer	1006.020	Nov 2005
Valve Operator	1101.020	Nov 2006
Concrete Thrust Blocks for Tees, Plugs and Horizontal Bends	1103.010	Nov 2006
Concrete Thrust Blocks for Vertical Bends	1103.020	Nov 2006
Water Service Connection, 19 mm and 25 mm Diameter Sizes	1104.010	Nov 2006
Water Service Connection, 32 mm, 38 mm and 50 mm Diameter Sizes	1104.020	Nov 2006
Hydrant Installation	1105.010	Nov 2006
Cathodic Protection for Metallic Watermain Systems	1109.010	Nov 2008
Cathodic Protection for PVC Watermain Systems	1109.011	Nov 2008