APPENDIX F

PRELIMINARY PREFERRED DESIGN & CONSTRUCTION COST ESTIMATES

If technical reports are required in an alternative format for accessibility needs, please contact:

Maged Elmadhoon, M.Eng., P.Eng.

Manager, Transportation Planning

1815 Sir Isaac Brock Way, PO Box 1042

Thorold, Ontario, L2V 4T7

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APPENDIX F.1

PRELIMINARY PREFERRED DESIGN

If technical reports are required in an alternative format for accessibility needs, please contact:

Maged Elmadhoon, M.Eng., P.Eng.

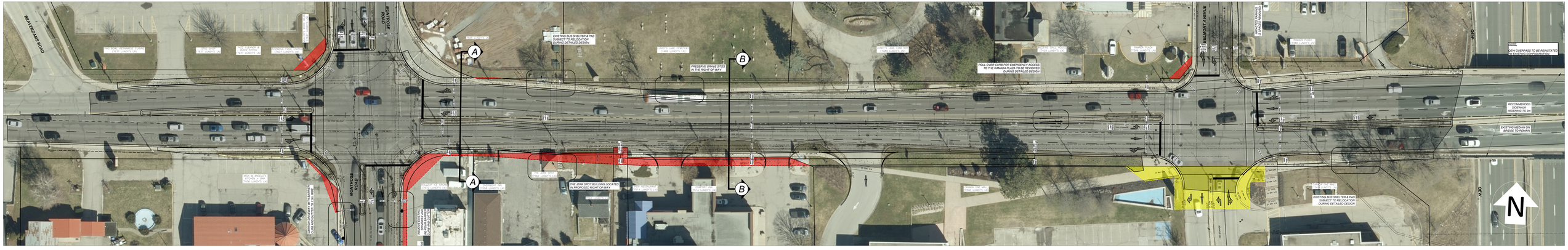
Manager, Transportation Planning

1815 Sir Isaac Brock Way, PO Box 1042

Thorold, Ontario, L2V 4T7

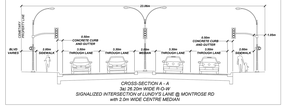
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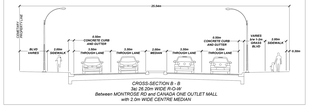


LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

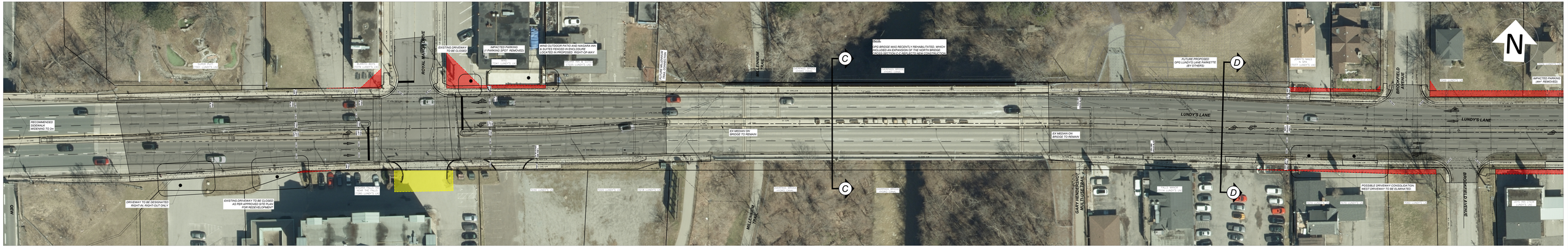


CROSS-SECTION A - A
3a) 26.20m WIDE R-O-W
SIGNALIZED INTERSECTION of LUNDY'S LANE @ MONTROSE RD
with 2.0m WIDE CENTRE MEDIAN



CROSS-SECTION B - B
3a) 26.20m WIDE R-O-W
Between MONTROSE RD and CANADA ONE OUTLET MALL
with 2.0m WIDE CENTRE MEDIAN

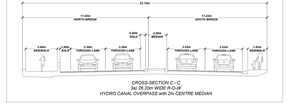
PREFERRED ALTERNATIVE
LUNDY'S LANE between BEAVERDAMS RD. & QEW OVERPASS
4-LANE ROADWAY with LEFT TURN LANES, a CENTRE MEDIAN,
and 2m WIDE SIDEWALKS ON BOTH SIDES of the STREET



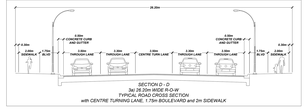
LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

PREFERRED ALTERNATIVE
LUNDY'S LANE between QEW OVERPASS & HYDRO CANAL OVERPASS
4-LANE ROADWAY with LEFT TURN LANES, a CENTRE MEDIAN,
and 2m WIDE SIDEWALKS ON BOTH SIDES of the STREET

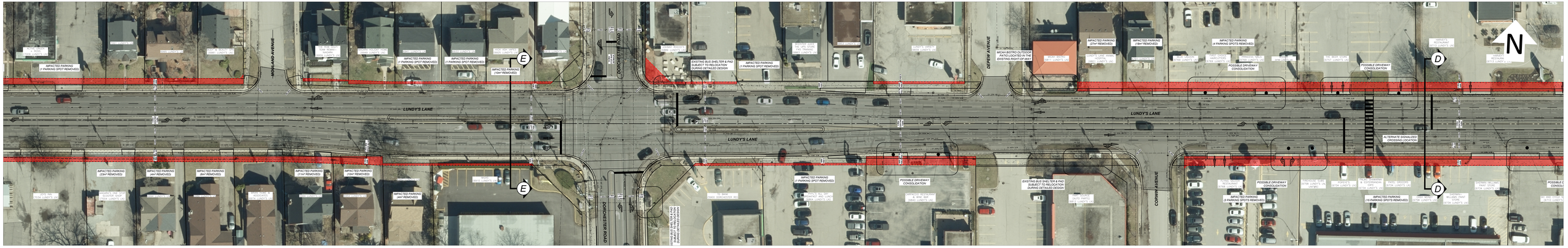


CROSS-SECTION C - C'
3at 28.15m WIDE R.O.W
HYDRO CANAL OVERPASS with 2m CENTRE MEDIAN



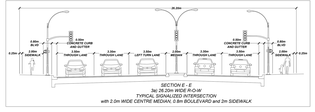
SECTION D - D'
3at 28.20m WIDE R.O.W
TYPICAL ROAD CROSS SECTION
with CENTRE TURNING LANE, 1.75m BOULEVARD and 2m SIDEWALK

PREFERRED ALTERNATIVE
LUNDY'S LANE between HYDRO CANAL
OVERPASS & BROOKFIELD AVE.
4-LANE ROADWAY with CENTRE TURNING LANE
and 2m WIDE SIDEWALKS ON BOTH
SIDES of the STREET



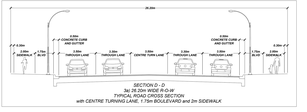
LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

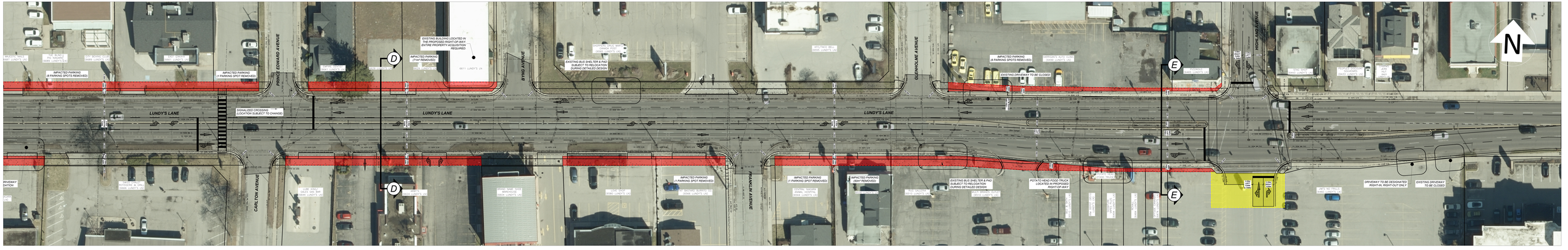


SECTION E - E
3st. 26.20m WIDE R-O-W
TYPICAL SIGNALIZED INTERSECTION
with 2.0m WIDE CENTRE MEDIAN, 0.8m BOULEVARD and 2m SIDEWALK

PREFERRED ALTERNATIVE
LUNDY'S LANE between BROOKFIELD AVE. & 120m BEYOND CORWIN AVE.
4-LANE ROADWAY with CENTRE TURNING LANE
and 2m WIDE SIDEWALKS ON BOTH SIDES of the STREET

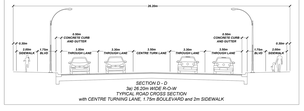


SECTION D - D
3st. 26.20m WIDE R-O-W
TYPICAL ROAD CROSS SECTION
with CENTRE TURNING LANE, 1.75m BOULEVARD and 2m SIDEWALK



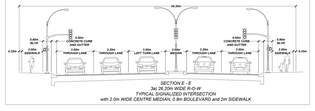
LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

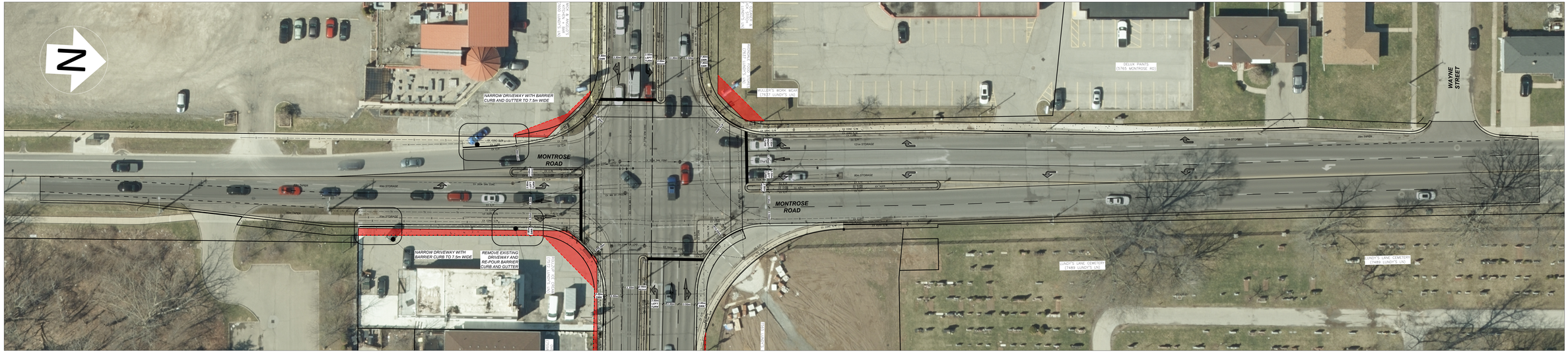


SECTION D - D
3a) 26.0m WIDE R-O-W
TYPICAL ROAD CROSS SECTION
with CENTRE TURNING LANE, 1.75m BOULEVARD and 2m SIDEWALK

PREFERRED ALTERNATIVE
LUNDY'S LANE between CARLTON AVE. & HIGHLAND AVE.
4-LANE ROADWAY with CENTRE TURNING LANE
and 2m WIDE SIDEWALKS ON BOTH SIDES of the STREET



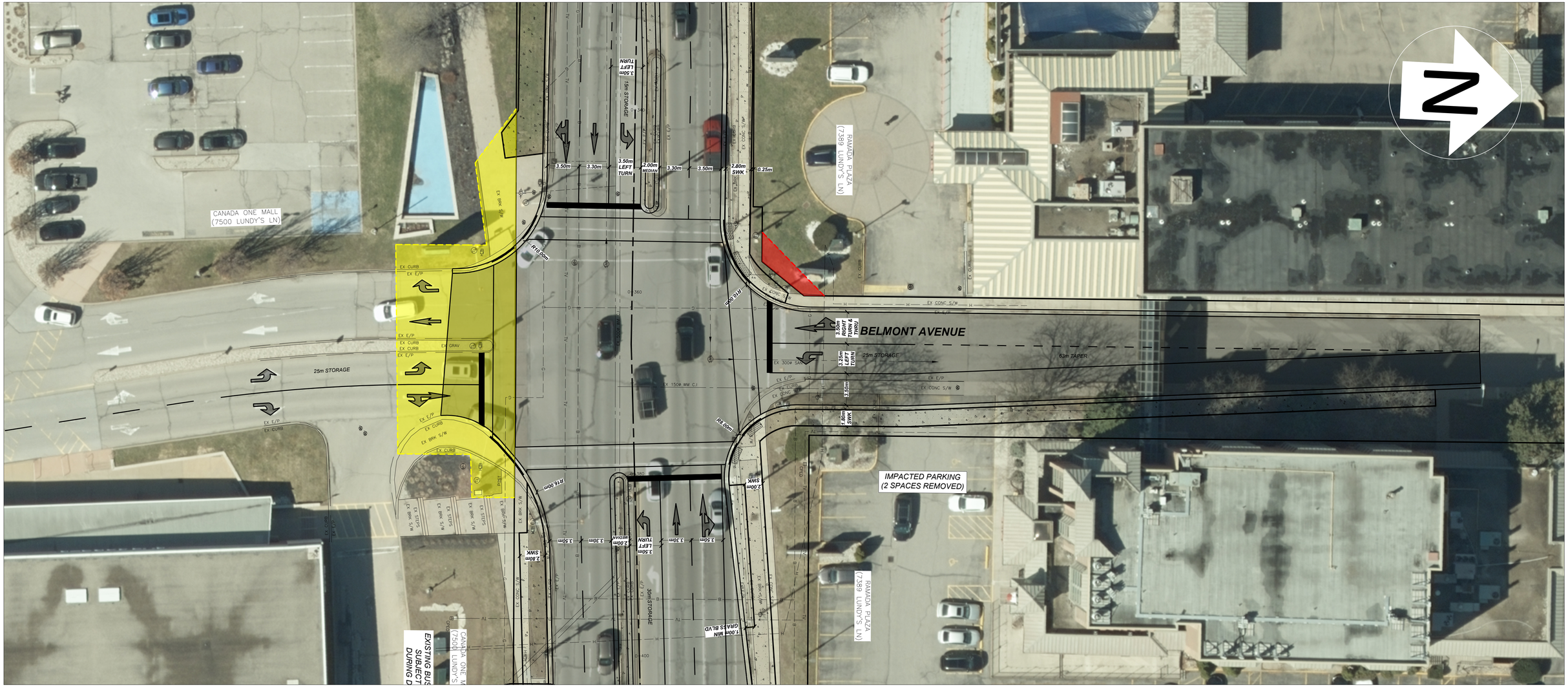
SECTION E - E
3a) 26.0m WIDE R-O-W
TYPICAL SIGNALIZED INTERSECTION
with 3.0m WIDE CENTRE MEDIAN, 0.3m BOULEVARD and 2m SIDEWALK



LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

PREFERRED ALTERNATIVE
LUNDY'S LANE @ MONTROSE RD.



LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

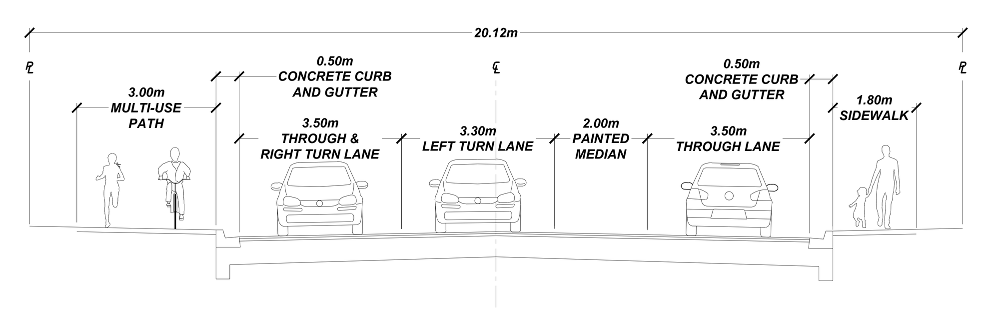
PREFERRED ALTERNATIVE
LUNDY'S LANE @ BELMONT AVE.



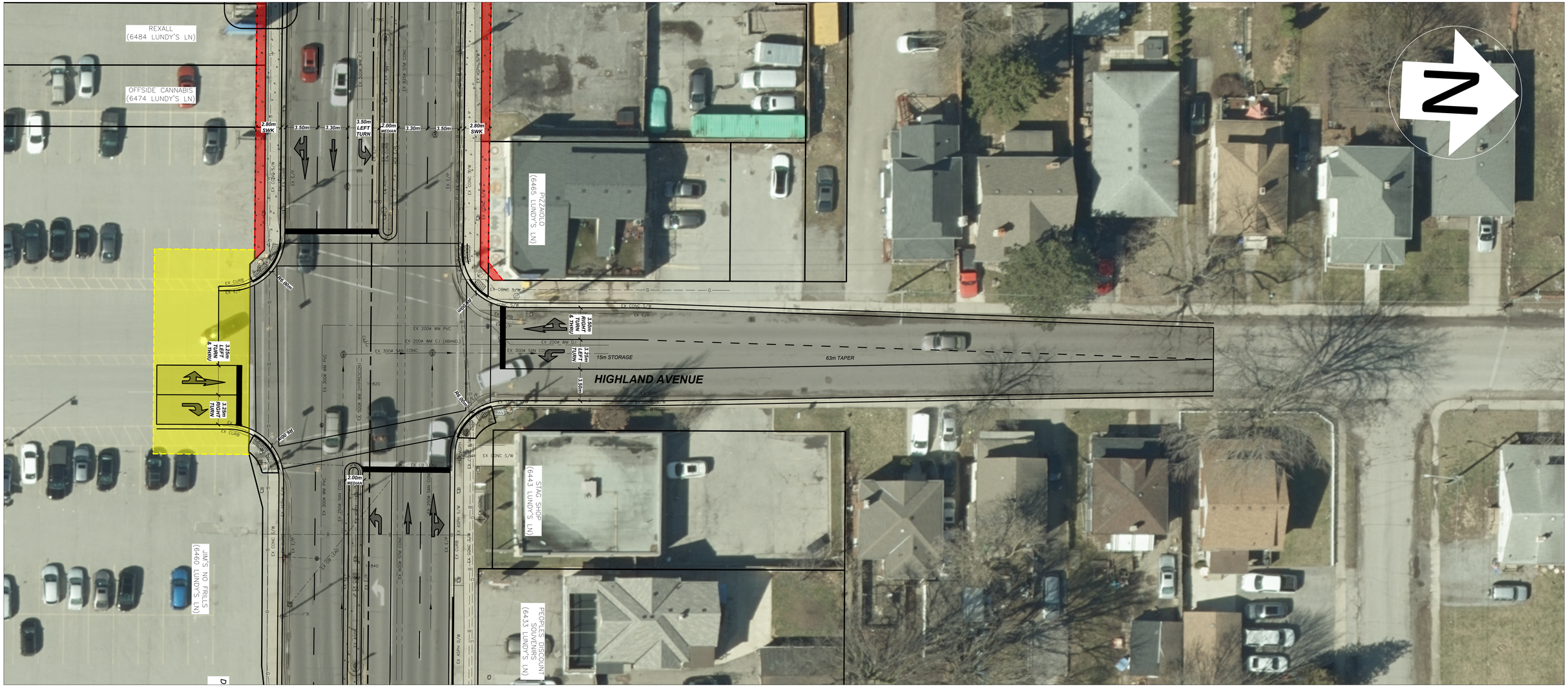
LEGEND:

- PROPERTY ACQUISITION REQUIRED
- PROPERTY EASEMENT REQUIRED
- PROPOSED CONCRETE
- PROPOSED GRASS BOULEVARD
- PROPOSED ASPHALT
- PROPOSED TACTILE PLATES
- PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS
- PROPOSED PAVEMENT MARKINGS

PREFERRED ALTERNATIVE
LUNDY'S LANE @ DORCHESTER RD.



TYPICAL CROSS-SECTION
DORCHESTER ROAD @ LUNDY'S LANE



LEGEND:

- *PROPERTY ACQUISITION REQUIRED*
- *PROPERTY EASEMENT REQUIRED*
- *PROPOSED CONCRETE*
- *PROPOSED GRASS BOULEVARD*
- *PROPOSED ASPHALT*
- *PROPOSED TACTILE PLATES*
- *PROPOSED CURB & DRIVEWAY AND SIDEWALK CURB DROPS*
- *PROPOSED PAVEMENT MARKINGS*

PREFERRED ALTERNATIVE
LUNDY'S LANE @ HIGHLAND AVE.

APPENDIX F.2

PRELIMINARY COST ESTIMATES

If technical reports are required in an alternative format for accessibility needs, please contact:

Maged Elmadhoon, M.Eng., P.Eng.

Manager, Transportation Planning

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Thorold, Ontario, L2V 4T7

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Email: Maged.Elmadhoon@niagararegion.ca

Summary - Lundy's Lane EA Preliminary Estimate	TOTAL PRICE	
Total Section 1: General	$	3,075,150.00
Total Section 1a: General - Contingency and Allowances	$	4,820,000.00
Total Section 2: Property Acquisition	$	5,353,952.90
Total Section 3: Roads	$	9,909,702.00
Total Section 4: Storm Sewers	$	2,148,906.00
Total Section 5: Sanitary Sewers	$	1,982,366.00
Total Section 6: Watermain	$	3,962,110.00
Total Section 7: Traffic Signals	$	4,075,000.00
Total Section 8: Interconnect	$	200,000.00
Total Section 9: Illumination	$	950,000.00
Total Section 10: Landscaping and Public Realm Spaces	$	460,000.00
TOTAL	**$**	**36,937,186.90**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 1: General

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
1.01	NPSC SP-A1	Bonding	1.00	LS	$ 450,000.00	$ 450,000.00
1.02	NPSC SP-A2 N-1204	Pre-Construction Survey	1.00	LS	$ 14,000.00	$ 14,000.00
1.03	NPSC SP-A3 N-1203	Site Office	1.00	LS	$ 45,000.00	$ 45,000.00
1.04	NPSC SP-A4 N-1202	Construction Layout	1.00	LS	$ 100,000.00	$ 100,000.00
1.05	N-7019	Mobilization and Demobilization	1.00	LS	$ 1,000,000.00	$ 1,000,000.00
1.06	N-7034	Site Specific Health and Safety Program, Procedures and Equipment	1.00	LS	$ 5,000.00	$ 5,000.00
1.07	NPSC SP-A5 N-4001	Clearing and Grubbing - Tree Removal - for trees less than 300mm diameter including stumps(Provisional)	15.00	ea.	$ 750.00	$ 11,250.00
1.08	NPSC SP-A5 N-4001	Clearing and Grubbing - Tree Removal - for trees greater than 300mm diameter including stumps (Provisional)	15.00	ea.	$ 1,000.00	$ 15,000.00
1.09	NPSC SP-A5 N-4001	Clearing and Grubbing	150.00	m²	$ 40.00	$ 6,000.00
1.10	NPSC SP-A7 N-7035	Install, Maintain and Remove Silt Control Devices - Heavy Duty Silt Fence Barrier, OPSD 219.130	2,000.00	m	$ 22.00	$ 44,000.00
1.11	NPSC SP-A7 N-7035	Install, Maintain and Remove Silt Control Devices - Siltsack® or Silt Socks (or approved equal) at Inlets to Catch Basins, Catch Basin Maintenance Holes or Ditch-Inlet Catch Basins	34.00	ea.	$ 100.00	$ 3,400.00
1.12	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control and Traffic Management Plan - Signs - This Item is to Include the Removal and Reinstatement of all Regulatory, Private, and Business Signs within the Construction Area	1.00	LS	$ 40,000.00	$ 40,000.00
1.13	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control, and Traffic Management Plan - Traffic Control	1.00	LS	$ 650,000.00	$ 650,000.00
1.14	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control and Traffic Management Plan - Traffic Management Plan (including updates) and all Required Permitting	1.00	LS	$ 10,000.00	$ 10,000.00
1.15	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control and Traffic Management Plan - Signs - This Item is to Include the Removal and Reinstatement of all Regulatory, Private, and Business Signs within the Construction Area - Pesdestrian Control	1.00	LS	$ 15,000.00	$ 15,000.00
1.16	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control, and Traffic Management Plan - Traffic Control - Pedestrian Control	1.00	LS	$ 100,000.00	$ 100,000.00
1.17	NPSC SP-A8 N-1201 OPSS.MUNI 706	Construction signs, Traffic Control and Traffic Management Plan - Traffic Management Plan (including updates) and all Required Permitting and hoarding fencing - Pedestrian Control	1.00	LS	$ 7,500.00	$ 7,500.00
1.18	NPSC SP-A8 N-1201 OPSS.MUNI 706	Paid Duty Officers	800.00	hr.	$ 160.00	$ 128,000.00
1.19	NPSC SP-A10 OPSS.MUNI 801	Tree Protection	300.00	m	$ 15.00	$ 4,500.00
1.20	N0111	Unwatering Structure Excavations	1.00	LS	$ 30,000.00	$ 30,000.00
1.21	N-7016	Settlement Monitoring - Retaining Walls	1.00	LS	$ 25,000.00	$ 25,000.00

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
1.22		Vibration Monitoring - 7029 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.23		Vibration Monitoring - 7001 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.24		Vibration Monitoring - 6995 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.25		Vibration Monitoring - 6986 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.26		Vibration Monitoring - 6981 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.27		Vibration Monitoring - 6942 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.28		Vibration Monitoring - 6941 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.29		Vibration Monitoring - 6791 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.30		Vibration Monitoring - 6530 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.31		Vibration Monitoring - 6984 Lundy's Lane	1.00	ea	$ 5,000.00	$ 5,000.00
1.32		Vibration Monitoring - 7489 Lundy's Lane - Cemetery and Cairn	1.00	ea	$ 10,000.00	$ 10,000.00
1.33		Vibration Monitoring Plan	1.00	LS	$ 5,000.00	$ 5,000.00
1.34	O.Reg. 406/19 NPSC SP-B35 N-2203	Excess Soils Management	1.00	LS	$ 50,000.00	$ 50,000.00
1.35	O.Reg. 406/19 NPSC SP-B35 N-2203	Obtain SoilFlo License	1.00	LS	$ 15,000.00	$ 15,000.00
1.36	O.Reg. 406/19 NPSC SP-B35 N-2203	Prepare the Soils Destination Assessment Report (SDAR)	1.00	LS	$ 5,000.00	$ 5,000.00
1.37	O.Reg. 406/19 NPSC SP-B35 N-2203	Qualified Person	1.00	LS	$ 75,000.00	$ 75,000.00
1.38	O.Reg. 406/19 NPSC SP-B35 N-2203	Additional delineation sampling including testing and analysis beyond that provided in the Soils Characterization Report (Provisional)	30.00	ea	$ 2,000.00	$ 60,000.00
1.39	N-7017	Remove & Decommissioning of Monitoring Wells	20.00	ea	$ 1,500.00	$ 30,000.00
1.40		Repair Sprinker System - Heads (Provisional)	15.00	ea	$ 450.00	$ 6,750.00
1.41		Repair Sprinker System - Line (Provisional)	150.00	m	$ 125.00	$ 18,750.00
1.42	N-7022	Aerial Photography Site Visits	30.00	ea	$ 1,200.00	$ 36,000.00
1.43	N-7022	Production Video	1.00	LS	$ 10,000.00	$ 10,000.00
					SUB-TOTAL Section 1: General	**$ 3,075,150.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 1a: General - Contingency and Allowances

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
1.100	NPSC SP-A9	Contingency and Allowances	1.00	LS	$ 4,000,000.00	$ 4,000,000.00
1.101	N0117	Allowance for Coordination of GPS Shots and As-Built Drawings	1.00	LS	$ 75,000.00	$ 75,000.00
1.102	N0118	Allowance for Archaeological Monitoring (Provisional)	1.00	LS	$ 40,000.00	$ 40,000.00
1.103		Demolish building	1.00	LS	$ 75,000.00	$ 75,000.00
1.104	NPSCD G27 N-7008	Night Work Allowance - 6:00pm-10:59pm	10.00	LS	$ 2,500.00	$ 25,000.00
1.105	NPSCD G27 N-7008	Night Work Allowance - 11:00pm-06:00am	10.00	LS	$ 2,500.00	$ 25,000.00
1.106	NPSC SP-B14, N0119, N0210	AC Index Adjustment Allowance	1.00	LS	$ 580,000.00	$ 580,000.00
					SUB-TOTAL Section 1a: General - Contingency and Allowances	**$ 4,820,000.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 2: Property Acquisition

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
2.01		Property Acquisition	3743.27	m²	$ 1,270.00	$ 4,753,952.90
2.01		Parking Loss	40.00	stall	$ 15,000.00	$ 600,000.00
					SUB-TOTAL Section 2: Property Acquisition	**$ 5,353,952.90**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate
Section 3: Roads

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
3.01	NPSC SP-B1, N0200	Test Pits - Hydrovac equipment or approved equivalent for exposing existing utilities and services - any depth	1,200.00	hr	$ 300.00	$ 360,000.00
3.02	NPSC SP-B2, N0201	Earth Excavation - Excavation for new road cross-section (from existing ground surface to subgrade) including boulevards, ditches, and driveways including concrete and granulars. Select material may be used as fill where required. Includes disposal of excess material.	20,000.00	m^3	$ 30.00	$ 600,000.00
3.03	NPSC SP-B2, N0201	Earth Excavation - Excavation of road subbase (soft areas) as directed by contract administrator prior to placement of Granular 'A' roadbase (Provisional)	200.00	m^3	$ 60.00	$ 12,000.00
3.04	NPSC SP-B2, N0201	Earth Excavation - Rock Removal	200.00	m^3	$ 325.00	$ 65,000.00
3.05	NPSC SP-B3, N0202	Granular Materials - Granular 'A' crushed limestone material (100% passing 19.0mm sieve) for all requirements incl. road, driveways, sewers, watermains, MH., CB, etc.	63,899.00	t	$ 19.00	$ 1,214,081.00
3.06	NPSC SP-B3, N0202	Granular Materials - Granular 'A' for Temporary Pedestrian Walkway	600.00	t	$ 22.00	$ 13,200.00
3.07	NPSC SP-B3, N0202	Granular Materials - Granular 'B' crushed limestone material for backfill of 'soft spot' excavation	200.00	t	$ 19.00	$ 3,800.00
3.08	NPSC SP-B6, N0203, OPSS.MUNI 405	Subdrain - 150mm Dia. Road Subdrain (OPSD 216.021, non-wrapped) c/w subdrain outlets as per OPSD 207.044 Price to include all connections, excavation and bends as required and rodent traps at outlets. Subdrain to be excavated and installed separately after excavation of road.	3,600.00	m	$ 30.00	$ 108,000.00
3.09	NPSC SP-B8, N0205 OPSS.MUNI 353	Concrete Curb and Gutter - Standard Barrier Curb with Gutter - Straight and curved sections (OPSD 600.040)	3,660.00	m	$ 60.00	$ 219,600.00
3.10	NPSC SP-B9, N0206	Concrete Sidewalk and Median - Natural Colour, Brushed Finish, 150mm thick	4,000.00	m^2	$ 80.00	$ 320,000.00
3.11	NPSC SP-B9, N0206	Concrete Sidewalk - Commercial Driveways, natural colour, brushed finish, 200mm thick	2,950.00	m^2	$ 90.00	$ 265,500.00
3.12	NPSC SP-B9, N0206	Concrete Boulevard - Decorative Coloured Concrete, Charcoal Colour, Brushed finish, 150mm thick	1,800.00	m^2	$ 80.00	$ 144,000.00
3.13	NPSC SP-B11, N0207	Asphalt Milling - 50mm depth - Butt Joints	3,080.00	m^2	$ 15.00	$ 46,200.00
3.14	NPSC SP-B12, N0208	Supply and Application of Tack Coat - 0.20kg/m^2 (new surfaces/between lifts)	36,000.00	m^2	$ 1.25	$ 45,000.00
3.15	NPSC SP-B13, N0209	Adjustment of Appurtenances - Catch Basin and frame and covers - Up to 300mm from existing grade to base asphalt Ex. CB (Provisional)	10.00	ea	$ 450.00	$ 4,500.00
3.16	NPSC SP-B13, N0209	Adjustment of Appurtenances - Catch Basin and frame and covers - Base asphalt to finished grade - All	63.00	ea	$ 410.00	$ 25,830.00
3.17	NPSC SP-B13, N0209	Adjustment of Appurtenances - Adjust Maintenance Holes / Valve Chambers - Up to 300mm Ex. MH	2.00	ea	$ 575.00	$ 1,150.00
3.18	NPSC SP-B13, N0209	Adjustment of Appurtenances - MH's - concrete collars base asphalt to finished grade - All	51.00	ea	$ 1,500.00	$ 76,500.00
3.19	NPSC SP-B13, N0209	Adjustment of Appurtenances - Adjust Existing Valve and Curb Box	77.00	ea	$ 175.00	$ 13,475.00

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
3.20	NPSC SP-B13, N0209	Adjustment of Appurtenances - WV's-concrete collars base asphalt to finished grade - All	77.00	ea	$ 450.00	$ 34,650.00
3.21	NPSC SP-B14, N0210	Supply and Place Hot Mix Asphalt - Surface - SuperPave 12.5 Category D PGAC 64-28 - Roadway (60mm)	5,508.00	t	$ 125.00	$ 688,500.00
3.22	NPSC SP-B14, N0210	Supply and Place Hot Mix Asphalt -Base - SuperPave 19, Category D - PGAC 64-28 - Roadway (2 x 60mm lifts roadway)	11,016.00	t	$ 125.00	$ 1,377,000.00
3.23	NPSC SP-B15, N0211	Asphalt Walkways and Driveways - HL3F - Surface - Commercial Driveway (40mm) Including Handwork	425.00	t	$ 200.00	$ 85,000.00
3.24	NPSC SP-B15, N0211	Asphalt Walkways and Driveways - HL8 - Base - Commercial Driveway (50mm) Including Handwork	525.00	t	$ 200.00	$ 105,000.00
3.25	NPSC SP-B15, N0211	Asphalt Walkways and Driveways - HL3F - Temporary Pedestrian Walkway (50mm) including handwork	2,160.00	m²	$ 55.00	$ 118,800.00
3.26	NPSCD B14 N-3205 N-9009	Fibre Reinforcement for HMA (Aramid Fibre) - (Premium on HMA) (Top Lift asphalt Roads)	5,508.00	t	$ 17.00	$ 93,636.00
3.27	NPSC SP-B16, N0212	Concrete Pavement and Driveways - Residential Driveways (150mm) including handwork (Provisional)	150.00	m²	$ 75.00	$ 11,250.00
3.28	NPSC SP-B16, N0212	Concrete Pavement and Driveways - Commercial Driveways (200mm) including handwork (Provisional)	1,500.00	m²	$ 125.00	$ 187,500.00
3.29	NPSC SP-B17, N0213	Adjust Paving Stone Driveways and Walkways (Existing)	25.00	m²	$ 55.00	$ 1,375.00
3.30	NPSC SP-B17, N0213	Adjust Paving Stone Driveways and Walkways (New)	25.00	m²	$ 100.00	$ 2,500.00
3.31	NPSC SP-B18, N0214	Granular Driveways - Residential and Commercial (200mm Granular 'A' residential and 300mm Granular 'A' commercial) Price to include the excavation and preparation of granular driveways. (Provisional)	155.00	m²	$ 16.00	$ 2,480.00
3.32	NPSC SP-B21, N0215	Topsoil and Sod - Sodding including grading and 150mm of topsoil and watering	2,400.00	m²	$ 20.00	$ 48,000.00
3.33	NPSC SP-B23, N0217	Dust Control - Supply and Apply Calcium Chloride	45.00	t	$ 400.00	$ 18,000.00
3.34	NPSC SP-B24, N0217	Dust Control - Application of Water - for dust control and power flushing of roads	9,000.00	m³	$ 10.00	$ 90,000.00
3.35	NPSC SP-B24, N0217	Street Sweeper (Provisional)	600.00	hr	$ 140.00	$ 84,000.00
3.36	NPSC SP-B25, N0218	Supply and Place Cold Mix Asphalt (Provisional) or warm mix asphalt	900.00	t	$ 150.00	$ 135,000.00
3.37	NPSC SP-B27, N0219	Removal of Existing Items - Sawcutting, Remove and Dispose of Concrete Curb (all types)	4,000.00	m	$ 20.00	$ 80,000.00
3.38	NPSC SP-B27, N0219	Removal of Existing Items - Sawcutting, Remove and Dispose of Concrete (including driveways, sidewalks, walkways, pads, concrete pavers, boulevards, medians all types, all thicknesses)	4,700.00	m²	$ 20.00	$ 94,000.00
3.39	NPSC SP-B27, N0219	Removal of Existing Items - Sawcutting, Remove and Dispose of Brick/ Brick inlayed concrete pavers (including driveways, sidewalks, walkways, pads, concrete pavers, boulevards, medians all types, all thicknesses)	200.00	m²	$ 20.00	$ 4,000.00
3.40	NPSC SP-B27, N0219	Removal of Existing Items - Catch Basins (Any type, any depth, any size)	63.00	ea	$ 500.00	$ 31,500.00
3.41	NPSC SP-B27, N0219	Removal of Existing Items - Maintenance Holes (Any type, any depth, any size)	51.00	ea	$ 650.00	$ 33,150.00

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
3.42	NPSC SP-B27, N0219	Removal of Existing Items - All pipes and culverts (all types/sizes/materials where there is no replacement within the same trench and not within an excavation) including headwalls	500.00	m	$ 35.00	$ 17,500.00
3.43	NPSC SP-B27, N0219	Removal of Existing Items - Sawcutting, Removal and Disposal of Asphalt Pavement (Full Depth)	20,000.00	m²	$ 25.00	$ 500,000.00
3.44	NPSC SP-B27, N0219	Removal of Existing Items - Sawcutting, Removal and Disposal of Asphalt over Concrete Pavement (Full Depth)	20,000.00	m²	$ 25.00	$ 500,000.00
3.45	NPSC SP-B27, N0219	Removal of Existing Items - Signs (including double sign posts - remove, salvage, and reinstall, including temporary restoration)	20.00	ea	$ 100.00	$ 2,000.00
3.46	NPSC SP-B27, N0219	Removal of Existing Items - Abandonment of Existing Pipes (all types/materials - watermain, sanitary and storm sewer) in Place via Capping or Plugging - Less than 375m dia	20.00	ea	$ 350.00	$ 7,000.00
3.47	NPSC SP-B27, N0219	Removal of Existing Items - Abandonment of Existing Pipes (all types/materials - watermain, sanitary and storm sewer) in Place via Capping or Plugging - Greater than 400mm dia - 750mm dia	25.00	ea	$ 500.00	$ 12,500.00
3.48	NPSC SP-B27, N0219	Removal of Existing Items - Abandonment of Existing Pipes (all types/materials - watermain, sanitary and storm sewer) in Place via Capping or Plugging - Greater than 800mm dia	25.00	ea	$ 1,000.00	$ 25,000.00
3.49	NPSC SP-B27, N0219	Removal of Existing Items - Abandon Existing Pipes (all types/sizes/materials) with grout (Provisional)	500.00	m	$ 300.00	$ 150,000.00
3.50	NPSC SP-B27, N0219	Removal of Existing Items - Removal of Existing Pipes (all types/sizes/materials) inline excavation (Provisional)	3,912.00	m	$ 50.00	$ 195,600.00
3.51	NPSC SP-B27, N0219	Removal of Existing Items - Salvage all valves and valve box assemblies (any type, any depth, any size) and transport to Region Public Works Yard	77.00	ea	$ 150.00	$ 11,550.00
3.52	NPSC SP-B27, N0219	Removal of Existing Items - Hydrants (Salvage and transport to Region Public Works Yard)	12.00	ea	$ 700.00	$ 8,400.00
3.53	NPSC SP-B27, N0219	Removal of Existing Items - Coordination for the Removal of the Existing Bike Shelters & racks	1.00	LS	$ 7,500.00	$ 7,500.00
3.54	NPSC SP-B29	Wire Mesh - In commercial and industrial driveways and sidewalks	1,500.00	m²	$ 200.00	$ 300,000.00
3.55	NPSC SP-B34	Tactile Warning Surfaces	164.00	ea	$ 450.00	$ 73,800.00
3.56	NPSC SP-B35,N0113, N0220	Disposal of Excavated Contaminated Soils - Premium to remove and dispose of contaminated material to MOE Licensed Landfull if it cannot be reused on site.Only applies to impacted soil above Table 3.1 excluding SAR and EC	500.00	t	$ 110.00	$ 55,000.00
3.57	NPSC SP-B35, N0221	Remove & Dispose of Contaminated Liquid (Provisional)	4,500.00	l	$ 100.00	$ 450,000.00
3.58	OPSS.MUNI 578	Unshrinkable Fill (Provisional)	30.00	m³	$ 200.00	$ 6,000.00
3.59	OPSS 710, N0222	Pavement Marking - Field Reacted Polymeric - Directional Dividing Line-100mm width - solid or broken - yellow (Screed Application)	1,800.00	m	$ 5.00	$ 9,000.00
3.60	OPSS 710, N0222	Pavement Marking - Field Reacted Polymeric - Directional Dividing Line-100mm width - solid or broken - White (Screed Application)	7,200.00	m	$ 5.00	$ 36,000.00

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
3.61	OPSS 710, N0222	Pavement Marking - Field Reacted Polymeric - Stop Bar - 600mm Width - white (Screed Application)	200.00	m	$ 100.00	$ 20,000.00
3.62	OPSS 710, N0222	Pavement Marking - Field Reacted Polymeric - Ladder Bar - 600 mm width 3.0m wide - white (Screed Application)	550.00	m	$ 75.00	$ 41,250.00
3.63		Pavement Marking - Field Reacted Polymeric - Symbols - Left or Right turn arrow - white (Screed Application)	91.00	ea	$ 125.00	$ 11,375.00
3.64		Pavement Marking - Field Reacted Polymeric - Symbols - Straight arrow - white (Screed Application)	10.00	ea	$ 75.00	$ 750.00
3.65	N-3213 OPSS 710 OPSS 1712 OPSS 1714	Pavement Marking - Field Reacted Polymeric - Shark teeth - white (Screed Application)	40.00	ea	$ 45.00	$ 1,800.00
3.66	OPSS 710, N0222	Pavement Marking - Temporary Line Painting (All Stages)	1.00	LS	$ 25,000.00	$ 25,000.00
3.67	N0226	Reinstate Landscaping on Adjacent Properties	1.00	LS	$ 60,000.00	$ 60,000.00
3.68	N0227	Signage - Supply and Install Telespar Sign posts, including hardware	350.00	ea	$ 750.00	$ 262,500.00
3.69	N0227	Signage - Project Sign Boards - Supply and Install 4"x4" Wooden Posts, including hardware - Signs supplied by NR	10.00	ea	$ 1,000.00	$ 10,000.00
3.70	N-7039	Allowance for the Supply and Installation of Temporary Traffic Calming Measures (Provisional)	26.00	ea	$ 4,500.00	$ 117,000.00
3.71	N0229, N0202	Installation of Retained Soil System	15.00	m	$ 2,000.00	$ 30,000.00
3.72	N0219, N0231	Remove and Dispose of Asbestos Transite Watermain Pipe (Provisional)	20.00	m	$ 5,000.00	$ 100,000.00
					SUB-TOTAL Section 3: Roads	**$ 9,909,702.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate
Section 4: Storm Sewers

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
4.01	NPSC SP-C1, N0300	Storm Sewers - Supply and Install DR35 PVC or Class 100-D Concrete storm sewer c/w connections to existing or new structures with connections - EX. STM MH1 to STM MH2, 375mm Concrete Pipe (any depth)	267.00	m	$ 450.00	$ 120,150.00
4.02	NPSC SP-C1, N0300	Storm Sewers - Supply and Install Class 100-D Concrete storm sewer c/w connections to existing or new structures with connections - STM MH2 to STM MH3, 600mm Concrete Pipe (any depth)	31.00	m	$ 925.00	$ 28,675.00
4.03	NPSC SP-C1, N0300	Storm Sewers - Supply and Install Class 100-D Concrete storm sewer c/w connections to existing or new structures with connections - STM MH3 to STM MH4, 825mm Concrete Pipe (any depth)	167.00	m	$ 925.00	$ 154,475.00
4.04	NPSC SP-C1, N0300	Storm Sewers - Supply and Install Class 100-D Concrete storm sewer c/w connections to existing or new structures with connections - STM MH4 to STM MH5, 1050mm dia (any depth)	447.00	m	$ 1,100.00	$ 491,700.00
4.05	NPSC SP-C1, N0300	Storm Sewers - Supply and Install Class 100-D Concrete storm sewer c/w connections to existing or new structures with connections - STM MH5 to STM MH6, 1200mm dia (any depth)	397.00	m	$ 1,350.00	$ 535,950.00
4.06	NPSC SP-C1, N0300	Storm Sewers - Supply and Install DR35 PVC storm sewer c/w connections to existing or new structures with connections. - 250mm dia. Catch Basin Lead	324.00	m	$ 350.00	$ 113,400.00
4.07	NPSC SP-C1, N0300	Storm Sewers - Supply and Install DR35 PVC storm sewer c/w connections to existing or new structures with connections. - 300mm dia. Catch Basin Lead	113.00	m	$ 400.00	$ 45,200.00
4.08	NPSC SP-C5, N0303	Flush and T.V. Inspect Sewers - Clean and Flush Existing Storm Sewer	1,746.00	m	$ 20.00	$ 34,920.00
4.09	NPSC SP-C5, N0303	Flush and T.V. Inspect Sewers - Clean and Flush New Storm Sewer	1,746.00	m	$ 20.00	$ 34,920.00
4.10	NPSC SP-C6, N0304	Pre-Cast Concrete Maintenance Holes and Catch Basins - 1200mm dia. Maintenance Hole (OPSD 701.010) including frame and cover to OPSD 401.010 (Type 'A') c/w connection to new pipes, benching, parging and adjustment of frame and cover to final elevation. STM MH0X (approx depth +/- X.XXm)	10.00	ea	$ 10,000.00	$ 100,000.00
4.11	NPSC SP-C6, N0304	Pre-Cast Concrete Maintenance Holes and Catch Basins - 1500mm dia. Maintenance Hole (OPSD 701.010) including frame and cover to OPSD 401.010 (Type 'A') c/w connection to new pipes, benching, parging and adjustment of frame and cover to final elevation. STM MH0X (approx depth +/- X.XXm)	10.00	ea	$ 15,000.00	$ 150,000.00
4.12	NPSC SP-C6, N0304	Pre-Cast Concrete Maintenance Holes and Catch Basins - Single Catch Basin - OPSD 705.010 including frame and grate OPSD 400.010	63.00	ea	$ 5,000.00	$ 315,000.00
4.13	N0308	Flow Bypass Plan (Provisional)	1.00	LS	$ 15,000.00	$ 15,000.00
4.14		Storm Connection - New Sewer to Existing Structure (Stm MHX)	2.00	LS	$ 1,600.00	$ 3,200.00
4.15	NPSC SP-B13, N0318	MH Frame, Cover and Adjustment Unit (Provisional)	4.00	ea.	$ 1,579.00	$ 6,316.00
					SUB-TOTAL Section 4: Storm Sewers	**$ 2,148,906.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 5: Sanitary Sewers

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
5.01	NPSC SP-C1, NPSCD SP-C2, OPSS 410, N0400	Sanitary Sewers - Supply and Install PVC DR-35 sanitary sewer c/w connections to existing or new structures with connections - SAN MH1 to SAN MH2, 375mm dia (approx. 3m depth)	1,750.00	m	$ 550.00	$ 962,500.00
5.02	NPSC SP-C1, NPSCD SP-C2, OPSS 410, N0400	Sanitary Sewer Lateral - 100mm PVC SDR-28	1,162.00	m	$ 300.00	$ 348,600.00
5.03	NPSC SP-C4, N0403	Complete Dye Testing on Existing Sanitary Sewer to confirm any connected laterals (Provisional)	10.00	ea	$ 1,000.00	$ 10,000.00
5.04	NPSC SP-C4, N0403	Complete Smoke Testing on Existing Sanitary Sewer to confirm any connected laterals (Provisional)	10.00	ea	$ 1,000.00	$ 10,000.00
5.05	NPSC SP-C5, N0402	Flush and T.V. Inspect Sewers - Clean and Flush Existing Sanitary Sewer	1,750.00	m	$ 20.00	$ 35,000.00
5.06	NPSC SP-C5, N0402	Flush and T.V. Inspect Sewers - Clean and Flush New Sanitary Sewer	1,750.00	m	$ 20.00	$ 35,000.00
5.07	NPSC SP-C6, N0304	Pre-Cast Concrete Maintenance Holes and Catch Basins - 1200mm dia. Maintenance Hole (OPSD 701.010) including frame and cover to OPSD 401.010 (Type 'A') c/w connection to new pipes, benching, parging and adjustment of frame and cover to final elevation. SAN MH0X (approx depth +/- X.XXm)	25.00	ea	$ 15,000.00	$ 375,000.00
5.08	NPSC SP-C6, N0304	Pre-Cast Concrete Maintenance Holes and Catch Basins - 1500mm dia. Maintenance Hole (OPSD 701.011) including frame and cover to OPSD 401.010 (Type 'A') c/w connection to new pipes, benching, parging and adjustment of frame and cover to final elevation. SAN MH0X (approx depth +/- X.XXm)	6.00	ea	$ 15,000.00	$ 90,000.00
5.09	N0308	Flow Bypass Plan (Provisional)	1.00	LS	$ 15,000.00	$ 15,000.00
5.10	NPSC SP-B13, N0318	MH Frame, Cover and Adjustment Unit (Provisional)	4.00	ea.	$ 1,579.00	$ 6,316.00
5.11		Sanitary Connection - New Sewer to Existing Structure (San MHX)	6.00	LS	$ 1,600.00	$ 9,600.00
5.12		Sanitary Connection - Existing Sewer to New Structure (San MHX)	6.00	LS	$ 1,600.00	$ 9,600.00
5.13	NPSC SP-C7	Cleanouts	101.00	ea	$ 750.00	$ 75,750.00
					SUB-TOTAL Section 5: Sanitary Sewers	**$ 1,982,366.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate
Section 6: Watermain

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
6.01	NPSC SP-D1, NPSC SP-D10, NPSC SP-D14, N0500	Watermains - Supply and Install PVC DR-18 or PVCO PR235 Pipe with tracer wire and cathodic protection - 100mm dia. (Provisional)	66.00	m	$ 300.00	$ 19,800.00
6.02	NPSC SP-D1, NPSC SP-D10, NPSC SP-D14, N0500	Watermains - Supply and Install PVC DR-18 or PVCO PR235 Pipe with tracer wire and cathodic protection - 150mm dia.	366.00	m	$ 650.00	$ 237,900.00
6.03	NPSC SP-D1, NPSC SP-D10, NPSC SP-D14, N0500	Watermains - Supply and Install PVC DR-18 or PVCO PR235 Pipe with tracer wire and cathodic protection - 200mm dia.	101.00	m	$ 650.00	$ 65,650.00
6.04	NPSC SP-D1, NPSC SP-D10, NPSC SP-D14, N0500	Watermains - Supply and Install PVC DR-18 or PVCO PR235 Pipe with tracer wire and cathodic protection - 300mm dia.	1,616.00	m	$ 1,100.00	$ 1,777,600.00
6.05	NPSC SP-D1, NPSC SP-D10, NPSC SP-D14, N0500	Watermains - Supply and Install PVC DR-18 or PVCO PR235 Pipe with tracer wire and cathodic protection - 300mm dia. - Directional Bore	180.00	m	$ 5,000.00	$ 900,000.00
6.06	NPSC SP-D2, NPSC SP-D15	Valves - Supply and Install Mainline Valves including appurtenances and valve support, and corrosion protection - 100mm dia. (Provisional)	6.00	ea	$ 1,500.00	$ 9,000.00
6.07	NPSC SP-D2, NPSC SP-D15	Valves - Supply and Install Mainline Valves including appurtenances and valve support, and corrosion protection - 150mm dia.	13.00	ea	$ 2,000.00	$ 26,000.00
6.08	NPSC SP-D2, NPSC SP-D15	Valves - Supply and Install Mainline Valves including appurtenances and valve support, and corrosion protection - 300mm dia.	58.00	ea	$ 6,500.00	$ 377,000.00
6.09	NPSC SP-D3, NPSC D10, NPSC D14, N0501	Supply and Install Hydrant Sets c/w 100mm hydrant lead and black Storz Connection, and cathodic protection	12.00	ea	$ 9,000.00	$ 108,000.00
6.10	NPSC SP-D3, NPSC D10, NPSC D14, N0501	Hydrant Extensions - Up to 150mm (Provisional)	12.00	ea	$ 350.00	$ 4,200.00
6.11	NPSC SP-D3, NPSC D10, NPSC D14, N0501	Hydrant Extensions - Up to 300mm (Provisional)	12.00	ea	$ 650.00	$ 7,800.00
6.12	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, N0502	Water Services - Supply and Install 25mm Type 'K' Soft Copper	418.00	m	$ 260.00	$ 108,680.00
6.13	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, N0502	Water Services - Supply and Install 50mm Type 'K' Soft Copper (Provisional)	418.00	m	$ 350.00	$ 146,300.00
6.14	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D5, N0502	Main Stop - 25mm	38.00	ea	$ 370.00	$ 14,060.00

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
6.15	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D5, N0502	Main Stop - 50mm (Provisional)	38.00	ea	$ 425.00	$ 16,150.00
6.16	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D6, N0502	Curb Stops - 25mm	38.00	ea	$ 420.00	$ 15,960.00
6.17	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D6, N0502	Curb Stops - 50mm (Provisional)	38.00	ea	$ 455.00	$ 17,290.00
6.18	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D7, N0502	Curb Box - 25mm	38.00	ea	$ 240.00	$ 9,120.00
6.19	NPSC SP-D4, NPSC SP-D10, NPSC SP-D14, NPSC SP-D7, N0502	Curb Box - 50mm (Provisional)	38.00	ea	$ 300.00	$ 11,400.00
6.20	NPSC SP-D9	Insulation of Services/Watermain - 1.2m wide x 50mm thickness (Std. Dwg. 110-4005)(Provisional)	100.00	m²	$ 50.00	$ 5,000.00
6.21	NPSC SP-D13, N0503	Watermain Disinfection and Testing	1.00	LS	$ 5,000.00	$ 5,000.00
6.22	NPSC SP-G27, N0504	Watermain Tie-ins - Night Work Allowance Connect	16.00	LS	$ 5,000.00	$ 80,000.00
6.23	NPSC SP-D14	Trace Wire Testing	1.00	LS	$ 5,000.00	$ 5,000.00
6.24	NPSC SP-D13, N 7306	Temporary Water Connections	3.00	LS	$ 5,000.00	$ 15,000.00
					SUB-TOTAL Section 6: Watermain	**$ 3,962,110.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 7: Traffic Signals

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
7.01	N0600, N604, OPSS 616	SIGNAL - HOLD	5.00	ea	$ 550,000.00	$ 2,750,000.00
7.02	N0600, N604, OPSS 616	TEMP SIGNAL - HOLD	5.00	ea	$ 175,000.00	$ 875,000.00
7.03	N0600, N604, OPSS 616	IPS - HOLD	2.00	ea	$ 150,000.00	$ 300,000.00
7.04	N0600, N604, OPSS 616	TEMP IPS -HOLD	2.00	ea	$ 75,000.00	$ 150,000.00
					SUB-TOTAL Section 7: Traffic Signal	**$ 4,075,000.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 8: Interconnect

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
8.01	N0800, N0600, N0613, OPSS 603	HOLD - ATMS	1.00	ea	$ 200,000.00	$ 200,000.00
					SUB-TOTAL Section 8: Interconnect	**$ 200,000.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate
Section 9: Illumination

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
9.01	N0900, N0600, N604, OPSS 616	HOLD - Remove Existing Illumination	1.00	LS	$ 50,000.00	$ 50,000.00
9.02	N0900, N0600, N604, OPSS 616	HOLD - Temporary Illumination	1.00	LS	$ 50,000.00	$ 50,000.00
9.03	N0900, N0600, N604, OPSS 616	HOLD - Street light Illumination - Decorative Powder Coated Poles	1.00	LS	$ 300,000.00	$ 300,000.00
9.04	N0900, N0600, N604, OPSS 616	HOLD - Street light Illumination - Decorative Pole Coat	1.00	LS	$ 200,000.00	$ 200,000.00
9.05	N0900, N0600,N0605, OPSS 603	HOLD - Street light Illumination - Decorative Concrete Poles, Arms and Luminaires	1.00	LS	$ 350,000.00	$ 350,000.00
					SUB-TOTAL Section 9: Illumination	**$ 950,000.00**

RR20 Lundy's Lane Reconstruction from Beaverdam's Rd to Highland Ave in the City of Niagara Falls

Municipal Class EA and Preliminary Design Estimate

Section 10: Landscaping and Public Realm Space

Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Total
10.01		TREES - HOLD	200.00	ea	$ 900.00	$ 180,000.00
10.02		Signage - Wayfinding	30.00	ea	$ 1,000.00	$ 30,000.00
10.03		STREET SCAPING	1.00	LS	$ 150,000.00	$ 150,000.00
10.04		LANDSCAPE	1.00	LS	$ 100,000.00	$ 100,000.00
		SUB-TOTAL Section 10: Landscaping and Public Realm Spaces				**$ 460,000.00**