

TO: All Tenderers

FROM: McElhanney Ltd.

DATE: June 2, 2023

PROJECT: **Marchmont Road Renewal - Tender**

FILE NO: 2233-02107-00

1. PRECEDENCE

1. This Addendum shall form an integral part of the Work. This Addendum shall take precedence over all requirements of the Tender Documents with which it may prove to be at variance unless otherwise qualified by McElhanney.

2. PURPOSE

1. This addendum is in response to a portion of the questions that were asked during the tender period.
2. This addendum provides additional information and instructions to the bidders.
3. The questions below are in no particular order.

3. INSTRUCTIONS

1. **Correction to Invitation to Tenderers (all revisions in red text)**
 - a. Tender Closing Date extended to **2:00 PM on June 28, 2023**
2. **Correction to Instructions to Tenderers – Part I (all revisions in red text)**
 - a. Section 3.1 – Tender Closing Date has been revised per 1a.
 - b. Section 4.9 to be updated – The Last Addendum will be posted by end of the day on **Monday June 26, 2023**
 - c. Section 4.12 added – Asphalt Paving has been removed from the scope. The City will be in direct contract with Duncan Paving for this work. The contractor will be responsible for asphalt paving preparation including, but not limited to, tight blading, adjusting of appurtenances, lids, covers, etc. to final grade and compaction.
3. **Revisions / Additions to Form of Tender – Appendix 1 – Schedule of Quantities and Prices (all revisions in red text)**



Addendum #1

- a. 1.06 – Additional Supplemental Specification added
- b. 3.02 – Quantity reduced to exclude driveway ramps
- c. 3.03 – Added to account for 150mm thickness concrete driveway ramps
- d. 32.03 – Asphalt Paving removed from scope per 2c. Facilitation of Asphalt Paving added.
- e. 33.01 – Watermain pipe material type clarified
- f. 33.06 – Inclusion of inspection chambers clarified
- g. 33.09 – Manhole size clarified
- h. Optional Work Item 3 – Asphalt Speed Hump work to be facilitated but completed by Duncan Paving in direct contract with Owner

4. Revisions to Supplemental Specifications

- a. 01 57 07 – 1.6.2ss added

5. Clarification – Drawing 401 – Drop Curb Detail – Reinforcement bar requirement to be removed.

6. Questions

- a. Will there be a pre-tender meeting scheduled?
 - i. **There will not be a pre-tender meeting scheduled. Bidders are responsible for visiting the project site to assess conditions as required.**
- b. Per the Form of Tender, please confirm if the *Total Tender Price* on the *Summary Sheet* is to include the *Optional Work* price?
 - i. **As noted on Page 6 of the Appendix 1 – Schedule of Quantities and Prices, Optional Work is included in the Total Tender Price**
- c. Is there a geotechnical report that can be provided?
 - i. **There has not been geotechnical investigation or reporting completed for the project.**
- d. Per the Schedule of Quantities and Prices - item# 32.03, description states Thickness Varies. Please consider providing a base line thickness and material type for the driveway re-grading.
 - i. **Please assume 100mm thickness of Granular Base, matching line item 32.02**
- e. Please confirm the depth of existing asphalt being removed.
 - i. **Asphalt depth is unknown.**



Addendum #1

- f. Please confirm if temporary restoration with cold mix asphalt will be required over surfaces where asphalt has not yet been restored but is being travelled on. If so, please indicate which pay item covers the costs.
 - i. **Granular base or cold mix asphalt may be used for temporary trench restoration. It will be the Contractor's responsibility to maintain the restoration until final paving to the satisfaction of the City and Engineer.**

- g. Please confirm if we are to remove and replace sections of private concrete/asphalt driveways.
 - i. **It is assumed that no removal and replacement of private concrete and asphalt driveways will be required. Minor adjustments to the back of sidewalk elevations may be utilized.**

- h. Please confirm if we are to include removal and replacement of existing fences? If we are, please indicate which pay item covers the costs.
 - i. **It is assumed no fence removal and replacement will be required for the project.**

- i. Please confirm if we are to include removal of existing trees/shrubs? If we are, please indicate which pay item covers the costs.
 - i. **It is assumed no vegetation removal and replacement will be required for the project.**

- j. Please confirm which pay item we are to carry the costs for catch basin removals. When removing existing catchbasins, please confirm if existing CB leads are to be removed or abandoned.
 - i. **Per the supplemental specifications, all underground infrastructure removals are to be included in line item 31.01 Common Excavation. Catchbasins leads are to be removed as required for new construction; they can be abandoned if there are no conflicts or concerns from the geotechnical engineer during subgrade reviews.**

- k. Please confirm if temporary water will be required
 - i. **A suggested shut-down plan is provided within the Contract Drawings. Contractor to provide proposed shut-down plan for approval. Temporary water will be the Contractor's responsibility if required, but not the preferred methodology.**

- l. Under the Roadworks notes on the drawings, item #5 states that we are to restore all boulevards with 200mm depth of topsoil and sod per MMCD. When referencing the Schedule of Quantities and Prices - item# 32.07, shows topsoil at 100mm depth. Please confirm the depth of topsoil to be placed.
 - i. **Topsoil to be placed at a depth of 100mm as per the Schedule of Quantities and Prices**

4. ATTACHMENTS

Invitation to Tenderers – Issued for Addendum #1

Instruction to Tenderers – Part I – Issued for Addendum #1

Form of Tender – Appendix 1 – Schedule of Quantities and Prices – Issued for Addendum #1

Supplemental Specifications – Issued for Addendum #1

Owner: City of Duncan
(NAME OF OWNER)

Contract: Marchmont Road Renewal
(TITLE OF CONTRACT)

Reference No.: 2233-02107-00
(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders for: Road reconstruction along Marchmont Road between Trunk Road and Day
Road. Works generally include removals, earthworks, road works,
watermain, storm sewer, and landscaping.
(BRIEF DESCRIPTION OF THE WORK)

Digital (PDF) copies of the
Contract Documents are available
for no charge: Through BC Bid website.

Tenders are scheduled to close: Tender Closing Time: 2: 00 , P m local time
Tender Closing Date: June 28 , 20 23

Address: 200 Craig Street
Duncan, BC V9L 1W3
Documents to be dropped off at front desk
(ADDRESS WHERE TENDERS MUST BE SUBMITTED)

Name of Owner's Representative: Brian Murphy
250-746-6126
(PHONE)

1.0 Introduction.....IT - 1

2.0 Tender DocumentsIT - 1

3.0 Submission of TendersIT - 2

4.0 Supplemental Instructions to Tenderers.....IT - 3

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(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)

Owner: City of Duncan
(NAME OF OWNER)

Contract: Marchmont Road Renewal
(TITLE OF CONTRACT)

Reference No.: 2233-02107-00
(OWNER'S CONTRACT REFERENCE NO.)

1.0 Introduction

1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:

Road reconstruction along Marchmont Road between Trunk Road and
Day Road. Works generally include removals, earthworks, road
works, watermain, storm sewer, and landscaping.

(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all inquiries regarding the *Contract*, to:

McElhanney Ltd.

Jon Irving, P.Eng., Engineering Division Manager

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIS)

Address: 107-225 Canada Ave
Duncan, BC
V9L 1T6

Phone: 250 - 748 - 3335

Email: jirving@mcelhanney.com

2.0 Tender Documents

2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”.

2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These

documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

3.0 Submission of Tenders

3.1 Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., and must be received by the office of:

Brian Murphy, Director of Public Works and Engineering

(TITLE OF POSITION)

on or before:

Tender Closing Time: 2: 00 , Pm local time
Tender Closing Date: June 28 , 20 23

at City of Duncan

Address: 200 Craig Street
 Duncan, BC V9L 1W3
 Documents to be dropped off at front desk

3.2 Late tenders will not be accepted or considered, and will be returned unopened.

4.0 Supplemental
Instructions to
Tenderers

- 4.1 **Freedom of Information:** The City is subject to the provisions of the Freedom of Information and Protection of Privacy Act. As a result, while Section 21 of the Act does offer some protection for third party business interests, the City cannot guarantee that any information provided to the City can be held in confidence.
- 4.2 **Funding:** Proceeding with an award of this tender may be subject to available funding.
- 4.3 **Award:** The intent is to award the lowest bid price or bid prices but the lowest or any bid price will not necessarily be accepted. If the City elects to reject all bids, the City will not be liable to any bidder for any claims whether for costs incurred by any bidder in preparing the bid, damages, loss of anticipated profit in connection with the work, or any other matter whatsoever.
- 4.4 **Notice of Project:** Submit to WorkSafe BC a completed Notice of Project, providing a copy to the City.
- 4.5 **Construction Traffic Management Plan:** Submit to the Contract Administrator, prior to construction, a construction traffic management plan for review by the Contract Administrator and the Owner.
- 4.6 **Facsimile:** Faxed amendments or revocations will not be accepted.
- 4.7 **Inquiries:** All questions should be received at least 5 business days prior to the closing time and date.
- 4.8 **Working Hours:** The Contractor is required to abide by the following working hours set out in the City of Duncan Good Neighbour Bylaw No. 3156, 2017.
- 4.9 **Important Dates:**
- .1 The Last Addendum will be posted by the end of the day **Monday June 26th, 2023**
- 4.10 **Superintendent:** The *Owner* reserves the right to object to the *Superintendent* listed in the tender. If the *Owner* objects to the *Superintendent* then the *Owner* will permit a tenderer to, within 5 days, propose a substitute *Superintendent* acceptable to the *Owner* provided that there is no resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such a substitution and, if the *Owner* objects to a listed *Superintendent*, the tenderer may, rather than propose a substitute *Superintendent*, consider its tender rejected by the *Owner* and by written notice withdraw its tender. The *Owner* shall, in that event, return the tenderer's bid security.
- 4.11 **Schedule:** See critical dates in Appendix 2 of the Form of Tender
- 4.12 **Asphalt Paving Coordination:** Asphalt Paving will be completed by Duncan Paving in direct contract with the Owner. The successful Contractor will be responsible for coordinating and facilitating paving work including traffic control.

FORM OF TENDER

APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES

Form of Tender - Appendix 1

SCHEDULE OF QUANTITIES AND PRICES
(See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All prices and *Quotations* including the *Contract Price* shall include all *Taxes*, but shall not include *GST*.)

Any work called for in these Contract Documents, shown on the plans, or which is necessary for the completion of the Work called for in these Contract Documents and which is not specifically listed as a separate payment item in this Appendix shall be deemed incidental to the performance of the Work and to the general purpose of the Contract; no separate payment will be made on account of any such Work, but the costs of any such incidental Work shall be included in the Unit and Lump Sum Prices.

Summary Sheet

Division 01:	General Requirements	\$ _____
Division 03:	Concrete	\$ _____
Division 31:	Earthworks	\$ _____
Division 32:	Roads and Site Improvements	\$ _____
Division 33:	Utilities	\$ _____
Optional Work		\$ _____

TOTAL TENDER PRICE	\$ _____
GST (5%)	\$ _____
TENDER PRICE plus GST	\$ _____

Tenderer's Initials _____

DIV 01		GENERAL REQUIREMENTS				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	01 10 00SS	Quality Control Testing				
1.01	1.1	Quality Control Testing	Lump Sum	1		
	01 10 00SS	Survey				
1.02	1.2	Layout Survey, Quantity Survey, Volume Calculations, and Record Survey	Lump Sum	1		
	01 33 01	Project Record Documents				
1.03	1.8.1	Project Record Documents	Lump Sum	1		
	01 52 01	Temporary Structures				
1.04	1.6.2ss	Mobilization & Demobilization	Lump Sum	1		
	01 55 00	Traffic Control, Vehicle Access and Parking				
1.05	1.5.1, 1.4.15ss	Traffic Management Plan (TMP), Traffic Control, Vehicle Access and Parking	Lump Sum	1		
	01 57 01	Environmental Protection				
1.06	1.6.1 1.6.2ss	Environmental Protection & Plan	Lump Sum	1		
Sub-Total					\$	

DIV 03		CONCRETE				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	03 30 20	Concrete Walks, Curb And Gutter				
3.01	1.4.3	Curb & Gutter Mountable Curb & Non-mountable Curb	Lineal Metre	471		
3.02	1.4.5	Concrete Walks, Infill Strips and Walkways Including ramps (100mm thickness)	Square Metre	589		
3.03	1.4.5	Concrete Driveway Ramps (150mm thickness)	Square Metre	125		
Sub-Total					\$	

DIV 31		EARTHWORKS				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	31 11 41	Shrub and Tree Preservation				
31.01	1.3.1	Shrub and Tree Preservation	Lump Sum	1		
	31 24 13	Roadway Excavation, Embankment and Compaction				
31.02	1.8.14ss	Common Excavation	Cubic Metre	1500		

Tenderer's Initials _____

31.03	1.8.9	Subgrade Preparation	Square Metre	3150		
				Sub-Total		\$

DIV 32		ROADS AND SITE IMPROVEMENTS				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	32 11 16.1	Granular Sub-Base				
32.01	1.4.3	Granular Sub-Base 200mm Thickness - Roads & Curbs	Square Metres	2800		
	32 11 23	Granular Base				
32.02	1.4.2	Granular Base 100mm Thickness – Roads, Curbs	Square Metres	2800		
32.03	1.4.2	Granular Base Thickness Varies – Driveway Re-grading	Square Metres	150		
	32 12 16	Hot-Mix Asphalt Concrete Paving				
32.04	N/A	Facilitate Asphalt Paving (Duncan Paving Contracted by Owner)	Lump Sum	1		
	32 17 23	Painted Pavement Markings				
32.05	1.5.2	Permanent Painted Pavement Markings	Lump Sum	1		
32.06	1.5.3	Permanent Thermoplastic Pavement Markings	Lump Sum	1		
32.07	1.5.6ss	Relocate Traffic Control Signs	Each	1		
	32 91 21	Topsoil and Finish Grading				
32.08	1.4.1	Topsoil - 100mm depth	Square Metres	50		
	32 92 23	Sodding				
32.09	1.8.1	Sodding	Square Metres	50		
				Sub-Total		\$

DIV 33		UTILITIES				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	33 11 01	Waterworks				
33.01	1.8.1, 1.8.2, 1.8.3	Watermain – HDPE DR9 200mm diameter, 0-2m depth, imported backfill, including fittings and appurtenances	Lineal Metres	248		
33.02	1.8.4	Water Service Connections Connect existing water services to new watermain	Each	20		
33.03	1.8.13	Watermain Tie-In	Lump Sum	4		
33.04	1.8.14	Hydrant Assembly Standard Drawing W4	Each	1		
	33 40 01	Storm Sewers				

Tenderer's Initials _____

33.05	1.6.1, 1.6.2	Drainage Pipe - PVC SDR35 450mm diameter, 0-4m depth, imported backfill	Lineal Metres	174		
33.06	1.6.3	Drainage Service Connections 150mm diameter, including inspection chambers	Each	2		
33.07	1.6.5	Catchbasin Lead – PVC SDR35 200mm diameter	Lineal Metres	35		
33.08	1.6.9	Drainage Tie-In	Each	1		
	33 44 01	Manholes and Catchbasins				
33.09	1.5.1.1ss	Manhole Base, lid, slab, cover and frame, 1500mm diameter	Each	3		
33.10	1.5.1.4	Manhole Re-benching	Each	1		
33.11	1.5.2	Catchbasin Top Inlet	Each	7		
Sub-Total					\$	

Tenderer's Initials _____

**OPTIONAL WORK
(Included in Tender Price)**

This section forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

Optional items quoted on will be reviewed and accepted or rejected at the Owner's option. Accepted optional items prices will be identified in the construction agreement.

Coordinate related work and modify surrounding work to integrate the Work of each optional item.

Prices quoted should not include GST.

<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	31 24 13	Roadway Excavation, Embankment and Compaction				
1	1.8.5	Common Excavation - Off-Site Disposal, below design subgrade to suitable soils	Cubic Metre	1000		
2	1.8.7	Embankment Fill – Imported to reach design subgrade	Cubic Metre	1000		
	32 12 16	Hot-Mix Asphalt Concrete Paving				
3	N/A	Facilitate Asphalt Speed Hump (Duncan Paving contracted by Owner)	Each	2		
	32 17 23	Painted Pavement Markings				
4	1.5.5ss	Traffic Control Signs Speed Humps Only	Each	4		
5	1.5.3	Permanent Thermoplastic Pavement Markings Speed Humps only	Lump Sum	1		

Tenderer's Initials _____

SUPPLEMENTARY SPECIFICATIONS		
Add the following Supplementary Specifications (attached at end):		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 10 00SS Measurement and Payment	All	
Revise the following Master Municipal Specifications Platinum Edition:		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 52 01 Temporary Structures	1.6 Payment	<p>Add Clause 1.6.2: "Payment for mobilization and demobilization shall include all the Contractor costs of mobilization at the beginning of the project and the cost of demobilization at the end of the project.</p> <p>.1 Included in the mobilization are such items as bonding, insurance, permits, moving personnel, equipment and materials to the site, setting up temporary facilities and all preparation for performing the <i>Work</i>.</p> <p>.2 Included in demobilization are preparation and submission of record drawings, operation and maintenance manuals, removal of all personnel, equipment and materials and cleanup of the <i>Site</i> and the <i>Work</i>.</p> <p>.3 The lump sum price bid for this work shall be relative to the costs involved but shall not exceed ten percent of the <i>Tender Price</i>.</p> <p>.4 Payment shall be made as follows, as approved by the Contract Administrator:</p> <p style="padding-left: 20px;">.1 60% of the lump sum bid will be included in the first progress payment certificate</p> <p style="padding-left: 20px;">.2 40% of the lump sum bid will be included in the final progress payment certificate</p> <p>.5 The Contract Administrator may at his discretion authorize partial payment if mobilization or demobilization is not complete</p> <p>.6 The cost of other items specified under General Requirements shall be considered incidental to the work and separate payment will not be made for any other items in the General Requirements unless specifically noted in the <i>Schedule of Quantities and Prices</i>."</p>
01 55 00 Traffic Control, Vehicle Access and Parking	1.4 Traffic Control	<p>Add Clause 1.4.15:</p> <p>"Provide a detailed Traffic Management Plan (TMP) and drawings with dedicated traffic control and pedestrian delineation for safety of motorists, pedestrians and bicycle traffic for all locations where roadways are affected by construction activities. The TMP shall be sealed by a qualified professional engineer and will be approved by the Contract Administrator in advance of implementation. This plan is to be submitted to the Contract Administrator a minimum of 14 calendar days prior to the contractor's desired date of construction commencement. The plan shall be updated and modified as requested by the Contract</p>

	<p>Administrator, as the construction project proceeds and traffic management needs warrant. The TMP is to contain sufficient details to allow the Contract Administrator and Owner a clear understanding of how the Contractor will ensure the following performance specification will be achieved, at a minimum.</p> <ol style="list-style-type: none">1. TMP shall be in prepared in accordance with the BC Ministry of Transportation and Infrastructure guidelines specified in the 2020 Traffic Management Guidelines for Work on Roadways Manual, and the 2016 Standard Specifications for Highway Construction. Table of Contents to include the following:<ol style="list-style-type: none">1.1. General Information1.2. Operations and Signage1.3. Users and Access1.4. Traffic Control Drawings1.5. Public Information Plan1.6. Incident Management Plan1.7. Implementation Plan2. Partial closure of existing travel lanes to a minimum of single lane alternating traffic to facilitate construction of the Works may be requested3. Diverted travel lanes must be on paved or granular base surfaces. Travel surface will allow for vehicles to move through the construction zone at an intended speed of 20 km/h.4. Minimize stopping traffic in the travel lane. No dumping or off loading of materials shall be permitted in the travel lane. Stoppages are permitted for vehicle access to and egress from the construction zone or for construction vehicles crossing the travel lane. No delays for full lane closure of more than 5 minutes.5. Provide a plan of all off site and on site signage and traffic control devices for review and acceptance by the Contract Administrator and the Owner. Update the plan as requested whenever signage or traffic control device locations are changed.6. Provide access for garbage collection and recycling pick-up programs and mail delivery to all residents and businesses. Provide communication to and coordination with all service providers as necessary to ensure access as required.7. Provide for the BC Transit bus routes. Communicate to and coordinate with BC Transit as necessary regarding temporary bus stop locations, transit through the work zone and any other issues that may arise that require discussion and coordination.8. Work shall be in accordance with City of Duncan Noise Bylaws.9. At the discretion of the Contract Administrator, the Contractor may be requested to modify the TMP to accommodate any irregularities or excessive congestion of traffic flow. Maximum total delays of up to 5 minutes are permitted10. Maintain at least one access to all properties, at all times unless otherwise authorized by the Contract Administrator or unless the work is directly in front of a residential driveway. Where closures of residential driveways are required, provide
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		<p>a hand delivered letter a minimum of 72 hours prior to construction to impacted property owner(s). Driveways shall be closed for 72 hours for concrete curing. Daily access shall be provided for trenching where possible using steel plates.</p> <p>11. Facilitate priority access through the work zone for fire trucks and all other emergency vehicles when they are operating with emergency lights and sirens active and where possible otherwise.</p> <p>12. Where sidewalks are closed, provide adequate signage regarding pedestrian detour including signage at closest pedestrian crossing at each side of the closed section. Where work directly impacts sidewalk accessibility, "fixed in place" ramps with a tactile surface are to be provided at either end of the work area allowing pedestrians to safely negotiate the grade change between the roadway surface and drop ramps, curbs, and boulevards. Ramps must be of solid / sound construction, a minimum of 1.5m wide, less than 8% grade, and fixed in place with a traction surface and have a raised barrier edge a minimum of 35mm high.</p> <p>13. Provide plan for on site or off site storage of materials and equipment, location of site trailers and all other storage facilities (e.g. shipping containers). Use of the road right-of way or other public lands will require a Permit to Occupy a Road Allowance.</p>
01 57 01 Environmental Protection	1.1 Section 10 57 01 Includes	Add Clause 1.1.5: "Qualified Environmental Professional"
	1.2 Temporary Erosion and Sediment Controls	Add Clause 1.2.1.4: "All catch basin, silt trap, and lawn basin inlet castings that may receive runoff from the work area to be covered with filter cloth. Ensure no silt or sediment enters the storm drainage system while removing the silt cloth once construction is complete"
	1.4 Environmental Protection	Add Clause 1.4.4: "Disposal of Waste: <ol style="list-style-type: none"> 1. Do not bury rubbish and waste materials on site. 2. Do not dispose of waste or volatile materials such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers. 3. Dispose of waste materials off property, in accordance with applicable provincial and/or federal regulations. Removal and disposal of Asbestos Cement pipe shall follow current WCB requirements."
		Add Clause 1.4.5: "Concrete and Asphalt Cutting and Placing: <ol style="list-style-type: none"> 1. Control and pick up all wet or dry residue from saw cutting, coring, grinding and milling operations by means of a vacuum device or street sweeper. Under no circumstances is any dust, debris or run-off to migrate into waterways, storm or sanitary sewers. 2. Minimize the volume of wastewater produced by cutting tools by recycling and reusing wastewater whenever possible. 3. Do not allow cement washout into the streets, driveways, gutters, storm drains, ditches or water courses.

		<p>4. Set up and operate portable mixers on tarps or heavy drop cloths to contain spillage.</p> <p>5. When breaking up and milling pavement, remove broken pavement and sweep area clean.”</p>
	1.6 Measurement and Payment	Add Clause 1.6.2: “Environmental Protection Plan shall be lump sum and includes all work to prepare, deliver and enact an Environmental Management Plan prepared by a registered qualified environmental professional (QEP) that contains the following components: tree protection plan; sensitive ecosystem management plan; sediment and erosion control plan; invasive species management plan; waste disposal; storage areas and laydown area management plan; equipment idling control plan; hazardous material control and spill response plan.”
31 24 13 Roadway Excavation, Embankment and Compaction	1.8 Measurement and Payment	Add Clause 1.8.14: “Payment for common excavation (neat line area to design subgrade) includes excavation and offsite disposal to design subgrade, including asphalt and concrete removal. Payment includes removal of all existing site fixtures, retaining walls, signs, fencing, stumps, pipes, culverts, conduits and underground infrastructure as shown on the Drawings. Measurement shall be based on the surface area neat lines required and shown on the Drawings and surveyed volume calculations as specified in Supplemental Specifications 01 10 00SS.”
32 12 16 Hot Mix Asphalt Concrete Paving	1.5 Measurement and Payment	Clause 1.5.1 change: "based on weigh tickets provided to Contract Administrator as loads are delivered" to "based on area for each thickness specified in the Schedule of Quantities and Prices”.
		Add Clause 1.5.9: “Payment for asphalt speed humps includes all materials, preparation, work and incidentals required to complete installation as shown in the Contract Drawings.”
32 17 23 Painted Pavement Markings	1.5 Measurement and Payment	Add Clause 1.5.5: “Supply and installation of traffic control signs shall be paid at the unit price shown on the Schedule of Quantities and Prices and shall include all labour, equipment and materials required to complete the installation as shown on the Contract Drawings.”
		Add Clause 1.5.6: “Relocation of existing traffic control signs shall be paid at the unit price shown on the Schedule of Quantities and Prices and shall include all labour, equipment and materials required to complete the removal and re-installation as shown on the Contract Drawings. The post and signs shall be salvaged for re-installation and new concrete bases installed. Sign relocations required for construction that are not shown in the Contract Drawings will be considered incidental to the work.”
33 44 01 Manholes and Catchbasins	1.5 Measurement and Payment	Clause 1.5.1.1 delete: "except riser". Replace with: "including riser". Delete Clause 1.5.1.2