

CONTRACT DOCUMENTS

CONTRACT PWC-2025-46

REHABILITATION OF COUNTY STRUCTURE B145 (COMBERMERE BRIDGE)

LOCATED ON COUNTY ROAD 62 (COMBERMERE ROAD)

**A DISTANCE OF APPROXIMATELY 0.5 KM SOUTH OF
COUNTY RD 515 (PALMER ROAD)**

IN THE TOWNSHIP OF MADAWASKA VALLEY



County of
Renfrew
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DECEMBER 2024

ELECTRONIC SUBMISSIONS ONLY



REQUEST FOR TENDER

CONTRACT NO. PWC-2025-46

REHABILITATION OF COUNTY STRUCTURE B145 (COMBERMERE BRIDGE) ON COUNTY ROAD 62 (COMBERMERE ROAD)

ELECTRONIC SUBMISSIONS for the **Rehabilitation of County Structure B145 (Combermere Bridge)**, located on **County Road 62 (Combermere Road)**, a distance of approximately **0.5 KM South of County Rd 515 (Palmer Road)** in the Township of Madawaska Valley, submitted to the County of Renfrew Public Works and Engineering (the "Department") must be received by **2:00 p.m.** local time on **Tuesday January 7, 2025** using 'Bids & Tenders' electronic tendering platform for the project, located at [Bids and Tenders - County of Renfrew](https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage) (<https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage>).

The County of Renfrew will not be responsible for late submissions.

Bidders that wish to submit a tender for this contract must register through [Bids and Tenders - County of Renfrew](https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage) to receive the tender documents and to be eligible to submit a tender. Tenders submitted by unregistered bidders will not be accepted.

Electronic PDF files of the plans, specifications and tender form are available for download free of charge for registered bidders. Hard copy plans, Specifications and Tender forms may be obtained from the Department for a non-refundable fee of **One hundred (100) Dollars**.

There will be no public tender opening, unofficial results will be available on [Bids and Tenders - County of Renfrew](https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage).

The lowest or any tender will not necessarily be accepted and the County of Renfrew reserves the right to award any portion of the work or none of the work.

For further information please contact:

Cecilie Wyngard
Administrative Assistant II
pwtenders@countyofrenfrew.on.ca

Taylor Hanrath
Manager of Capital Works
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9 International Drive
Pembroke, ON K8A 6W5
Phone: 613-732-4353 Toll Free: 800-273-0183

CONTENTS

Section A	Tender
Section B	Form of Agreement
Section C	Supplemental General Conditions
Section D	Special Provisions General
Section E	Standard Specifications and Drawings
Section F	Special Provisions - Items
Section G	Appendices

SECTION A
TENDER

INDEX FOR SECTION 'A' – TENDER

PART I	TENDER CALL.....	A-1
PART II	TENDER CONDITIONS	A-2 to A-8
TC-1	Completion and Submission of Tenders	A-2
TC-2	Tender Information Form	A-2
TC-3	Tender Deposit.....	A-3
TC-4	Agreement to Bond.....	A-3
TC-5	Addenda	A-3
TC-6	Work Schedule	A-3
TC-7	Irregular Tenders.....	A-3
TC-8	Unbalanced Tenders	A-3
TC-9	Collusion.....	A-4
TC-10	Right to Accept or Reject Tenders	A-4
TC-11	Contract Documents	A-4
TC-12	Errors, Omissions and Discrepancies in the Contract Documents	A-4
TC-13	Irrevocability of Offer.....	A-5
TC-14	Successful Tenderer-Bonds.....	A-5
TC-15	Successful Tenderer - Workplace Safety and Insurance Board Certificate of Clearance	A-5
TC-16	Successful Tenderer - Occupational Health and Safety.....	A-5
TC-17	Successful Tenderer - Execution of Form of Agreement	A-6
TC-18	Successful Tenderer - Insurance	A-6
TC-19	Successful Tenderer - Time for Completion	A-6
TC-20	Successful Tenderer - Liquidated Damages	A-7
TC-21	Successful Tenderer - Submission of Documentation	A-7
TC-22	Successful Tenderer - Commencement of the Work.....	A-7
TC-23	Statutory Holdback	A-7
TC-24	Subcontracting by the Contractor	A-8
TC-25	Registering to Tender.....	A-8
TC-26	Procurement By-law	A-8
PART III	FORM OF TENDER	A-9 to A-16
FT-1	Contract Documents	A-9
FT-2	Tenderer's Declarations.....	A-9
FT-3	Schedule of Prices	A-10
FT-4	Tenderer's Offer.....	A-10
FT-5	Agreement to Bond.....	A-11
FT-6	Occupational Health and Safety Statutory Declaration.....	A-12
FT-7	Accessibility Declaration	A-13
FT-8	Photograph/Video Declaration	A-13
FT-9	List of Subcontractors	A-14
FT-10	Bid Bond Document	A-15
PART IV	SCHEDULE OF PRICES	

PART I TENDER CALL

Electronic Tenders are invited until **2:00 p.m. local time, Tuesday January 7, 2025** through [Bids and Tenders - County of Renfrew](https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage) (<https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage>) for the execution of the works described herein.

Contract Number **PWC-2025-46**

Described as **Rehabilitation of County Structure B145 (Combermere Bridge)**
Located on County Road 62 (Combermere Road), a distance of
approximately 0.5 KM South of County Rd 515 (Palmer Road)

In the **Township of Madawaska Valley**

All questions regarding this tender must be submitted a minimum of four (4) business days prior to the date and time of tender close.

There will be no public opening for this Tender. Unofficial Bid results will be posted to the County's Bidding System at [Bids and Tenders - County of Renfrew](https://countyofrenfrew.bidsandtenders.ca/Module/Tenders/en/Home/BidsHomepage).

PART II **TENDER CONDITIONS****TC-1** **Completion and Submission of Tenders**

- 1.1. The Tenderer shall complete all documents pertaining to this Contract in ink or electronically.
- 1.2. The Tenderer shall submit its Tender electronically through [Bids and Tenders - County of Renfrew](#) by the date and time specified in Part I of the Tender.
- 1.3. The Tenderer shall submit to the Corporation:
 - (a) the Bid Bond Tender deposit;
 - (b) the Agreement to Bond;
 - (c) all Addenda issued by the Corporation with respect to this; Tender/Contract; and
 - (d) the project schedule.
- 1.4. This document is a Public Tender. The Tenderer is hereby advised that financial, and all other pertinent information related to this Contract, may be made publicly available by the Corporation.

TC-2 **Tender Information Form**

- 2.1 All Bids shall be submitted through [Bids and Tenders - County of Renfrew](#) only. Bidders must have a Bidding System Vendor account and shall ensure the account is created with the Bidders full legal company name.
- 2.2 Bidders are cautioned that the timing of their Bid Submission is based on when the bid is received by the Bidding System, **not** when a bid is submitted by a bidder, as transmission can be delayed due to file transfer size, transmission speed or other technical factors.
- 2.3 Hard copy Bid Submissions will not be accepted by the County.
- 2.4 Bids will not be accepted after the closing date and time.
- 2.5 There will be no public opening for this Tender. Unofficial Bid results will be posted on [Bids and Tenders - County of Renfrew](#) and are typically available upon Tender closing, subject to further review for compliance.
- 2.6 All pages of a Tender that require the signature of the bidder or agent of the bidder must be signed in ink or electronically.

TC-3 Tender Deposit

- 3.1 The Tender must submit a copy of a bid bond (see Section FT-10) in the amount of **Two Hundred Thousand Dollars (\$200,000)** made payable to the Corporation through [Bids and Tenders - County of Renfrew](#). Bidders should refer to the e-bonding information on [Surety Association of Canada's website](#) for a list of third parties that provide digital bond services.

TC-4 Agreement to Bond

- 4.1 At the time of tendering, the Tenderer shall submit, with its Tender, an Agreement to Bond completed and executed by the Tenderer's surety. The Agreement to Bond and the Tenderer's surety shall be in the form shown on Section FT-5.

TC-5 Addenda

- 5.1 Addenda will be issued to registered bidders through the electronic tendering system for this Request for Tenders.
- 5.2 Bidders shall acknowledge the receipt of all Addenda in the Bidding System prior to the submission of their Bid. Where Addenda has been issued, the system will not allow the Bidder to submit a Bid prior to acknowledging said Addenda.

TC-6 Work Schedule

- 6.1 At the time of tendering, the Tenderer shall submit with its Tender, a detailed work schedule outlining the progression and completion of the work within the time for completion and schedule specified in this document. The detailed work schedule shall meet the requirements of OPS Section GC 7.01.

The award of this Tender may be subject to the adequacy of the information provided under this Tender condition at the discretion of the Corporation.

TC-7 Irregular Tenders

- 7.1 The Corporation shall be the sole judge of whether or not a Tender is irregular.

TC-8 Unbalanced Tenders

- 8.1 The Tenderer shall not submit an unbalanced Tender.
- 8.2 The Corporation shall have the right to:
- (a) deem a Tender to be unbalanced; and
 - (b) reject a Tender which it deems to be unbalanced.

TC-9 Collusion

- 9.1 The Tenderer shall not engage in collusion of any sort and, in particular, shall:
- (a) ensure that no person or other legal entity, other than the Tenderer has any interest in the Tenderer's Tender; and
 - (b) prepare its Tender without any knowledge of, comparison of figures with or arrangement with any other person or firm preparing a Tender for the same work.

TC-10 Right to Accept or Reject Tenders

10.1 Notwithstanding any other provision in this Contract, the Corporation shall have the right to:

- (a) accept any Tender;
- (b) reject any Tender; and
- (c) reject all Tenders.

10.2 Without limiting the generality of Subsection TC-10.1 the Corporation shall have the right to:

- (a) accept an irregular Tender;
- (b) accept a Tender which is not the lowest Tender; and
- (c) reject a Tender even if it is the only Tender received by the Corporation.

10.3 Notwithstanding this, or any other provision of this contract, acceptance of the Tender shall occur at the time the Corporation awards the Tender and not necessarily at the time the award is communicated to the successful Tenderer. Award of this tender is subject to Committee/Council approval and is anticipated to occur on February 12, 2024.

TC-11 Contract Documents

11.1 The Tenderer shall review all Contract Documents related to this Tender, and all addenda issued by the Corporation pertaining to the Contract.

TC-12 Errors, Omissions and Discrepancies in the Contract Documents

12.1 If the Tenderer finds any errors or omissions in or discrepancies among the Contract Documents, it shall immediately notify the Corporation at the address specified in Part I of the Tender.

12.2 No oral explanation or interpretation by any person shall modify any of the Contract Documents.

TC-13 Irrevocability of Offer

- 13.1 The Tenderer shall not revoke its offer until after the expiration of sixty (60) days after the opening of Tenders by the Corporation.
- 13.2 If the Tenderer revokes its offer prior to the expiration of sixty (60) days after the Tender opening, the Tenderer shall forfeit its Tender deposit but this shall not prohibit the Corporation from pursuing any other legal remedy which it may have.

TC-14 Successful Tenderer - Bonds

- 14.1 The successful Tenderer and its surety shall provide:
- (a) a performance bond in the amount of 100% of the total Tender amount; and
 - (b) a labour and material payment bond in the amount of 50% of the total Tender amount.
- 14.2 The surety of the successful Tenderer and the bonds shall be to the satisfaction of the Corporation. The performance bond is to be maintained in good standing until the expiration of the warranty period.

TC-15 Successful Tenderer - Workplace Safety and Insurance Board Certificate of Clearance

- 15.1 The successful Tenderer shall provide the Corporation with a valid Workplace Safety and Insurance Board Certificate of Clearance to the satisfaction of the Corporation.

TC-16 Successful Tenderer - Occupational Health and Safety

- 16.1 The successful Tenderer will submit a statement of work and worker safety procedures to be implemented to fulfil the requirements of the Occupational Health and Safety Act (OHSA) including, but not limited to:
- (a) a copy of the corporate safety policy and manual;
 - (b) safety risk assessment including specific worker safety training required for this project;
 - (c) procedure for responding to and reporting of accidents (personal or traffic);
 - (d) workplace safety and insurance record;
 - (e) safety association affiliations; and
 - (f) summary of how conformance with OHSA will be applied to employees and subcontractors.

The award of Contract to the successful Tenderer is dependent on the sufficiency of the information provided.

TC-17 Successful Tenderer - Execution of Form of Agreement

- 17.1 The successful Tenderer shall execute, in duplicate, the Form of Agreement provided in the Contract Documents.
- 17.2 The successful Tenderer shall forward the executed Form of Agreement to the Corporation.

TC-18 Successful Tenderer - Insurance

- 18.1 The successful Tenderer shall provide the Corporation with an original Certificate of Insurance pursuant to OPS Section GC 6.03 of the General Conditions in a format satisfactory to the Corporation.
- 18.2 The Contractor shall carry insurance pursuant to OPS Section GC 6.03 of the General Conditions as modified herein in the amount of at least:

FIVE MILLION DOLLARS(\$5,000,000)

- 18.3 The Contractor shall carry insurance, pursuant to OPS Section GC 6.03 of the General Conditions as modified herein, which names the following as additional named insured:

The Corporation:

County of Renfrew
Public Works and Engineering Department
9 International Drive
Pembroke, ON K8A 6W5

The Corporation is herein deemed to include the local Municipalities, Consultants and Project Managers designated to act as Agent of the County for this project.

TC-19 Successful Tenderer - Time for Completion

- 19.1 The successful Tenderer shall complete the work in accordance with the schedule provided by the County of Renfrew in the Notice to Commence Work. The time allowed for completion of the work shall be **August 31, 2026**.
- 19.2 The successful Tenderer shall provide an updated detailed work schedule in accordance with OPS Section GC 7.01 and the Supplemental General Conditions of Contract showing completion of all works in accordance with Subsection TC-19.1.

TC-20 Successful Tenderer - Liquidated Damages

20.1 If the Contractor is obliged to pay damages pursuant to the Supplemental General Conditions, the liquidated damages shall be in the amount of:

Three Thousand Dollars (\$3,000) Dollars per day.

TC-21 Successful Tenderer - Submission of Documentation

21.1 The successful Tenderer shall submit the documentation required by Sections TC-14, TC-15, TC-16, TC-17 and TC-18, within seven working days of the day the Corporation notifies the successful Tenderer that the documentation should be sent to the Corporation.

21.2 If the successful Tenderer fails to comply with Subsection TC-21.1 the Corporation may, in its sole discretion, withdraw its acceptance of the Tender and the Tenderer shall have no recourse whatsoever against the Corporation.

TC-22 Successful Tenderer - Commencement of the Work

22.1 The successful Tenderer shall not commence the work until it has received a Commence Work Order issued by the Corporation.

22.2 The successful Tenderer shall commence the work within seven (7) working days of the issuance of the Commence Work Order by the Corporation.

TC-23 Statutory Holdback

23.1 The Corporation will retain a Statutory Holdback in accordance with the Construction Act.

23.2 Subject to the requirements of the Construction Act, the Statutory Holdback due to the Contractor will be released by the Corporation upon the receipt of all documents and records stipulated within the Contract Documents.

The documents may include but are not limited to:

- Release of Holdback Payment Certificate
- WSIB Clearance Certificate
- Statutory Declaration regarding payment of accounts
- Quality control records as listed in D-100-050
- Water taking records as listed in F-501C-001
- "Property Owner's Release" and "Site Selection Notification for material managed as disposable fill" as listed in OPSS 180

TC-24 Subcontracting by the Contractor

- 24.1 The Contractor may subcontract any part of the work in accordance with OPS Section GC 3.09, Subcontracting by the Contractor, of the OPS General Conditions of the Contract. The successful Tenderer must submit a list of subcontractors ten (10) days before the start of construction.
- 24.2 The Corporation reserves the right to accept or reject the subcontractor at their discretion.

TC-25 Registering to Tender

- 25.1 The Tenderer must register through [Bids and Tenders - County of Renfrew](#) to receive the tender package and addenda and to submit a tender for this project.

TC-26 Procurement By-law

- 26.1 The County of Renfrew Tendering process meets the requirements of Corporate Policy GA-01 Procurement of Goods and Services.

PART III **FORM OF TENDER****Submitted to The Municipal Corporation of the County of Renfrew (the County)****FT-1 Contract Documents**

1.1 The Contract Documents for Contract Number **PWC-2025-46** are:

- (a) Tender:
 - (i) Part I - Tender Call;
 - (ii) Part II - Tender Conditions; and
 - (iii) Part III - Form of Tender.
- (b) Form of Agreement.
- (c) General Conditions – Ontario Provincial Standard – General Conditions of Contract OPSS.MUNI 100 Nov. 2019.
- (d) General Specifications – Ontario Provincial Standard General Specifications – Only the common standards in OPS Volumes 1 to 4 and the Municipal oriented specifications in OPS Volumes 7 and 8 shall apply to this Contract unless specified elsewhere in the Contract Documents.
- (e) Supplementary General Conditions.
- (f) Special Provisions – General.
- (g) Special Provisions - Item.
- (h) Sketches, Drawings and appendices including agency letters of approval where applicable.
- (i) All Addenda issued pertaining to the Contract.

FT-2 Tenderer's Declarations

- 2.1 The Tenderer declares that it has carefully read and understands all documents related thereto, and agrees to perform the Work required in accordance with this Bid Solicitation document and my/our Bid at the price(s) detailed in our/my Bid.
- 2.2 The Tenderer declares that it understands and agrees to be bound by the Contract Documents.
- 2.3 Without limiting the generality of Subsection FT-2.2, the Tenderer declares that it has, at the time of tendering, fulfilled all of those obligations under the Contract which are required to be fulfilled by the time of tendering.

2.4 The Tenderer declares that all information which it has provided or will provide to the Corporation is true.

FT-3 Schedule of Prices

3.1 The Schedule of Prices must be submitted electronically through [Bids and Tenders - County of Renfrew](#) in accordance with the Bidding System instructions. Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST.

FT-4 Tenderer's Offer

4.1 The Tenderer offers to do the work in accordance with the Contract Documents.

4.2 The Tenderer offers to do the work and to accept payment at the unit prices specified in the Schedule of Prices of the Tender, in accordance with the Contract Documents.

**PWC-2025-46
Rehabilitation of County Structure B145 (Combermere Bridge)**

Located on County Road 62 (Combermere Road)

In the Township of Madawaska Valley

FT-5 Agreement to Bond

TO: The Municipal Corporation of the County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5

Hereinafter called the Corporation:

We, the undersigned, hereby agree to become bound as Surety for

for a Performance Surety totaling One Hundred Percent (100%) of the Contract amount and Fifty Percent (50%) of the Contract amount for payment of all labour and materials conforming to the Instruments of the Contract attached thereto, for the full and due performance of the works shown as described herein, if the Tender for: **PWC-2025-46 - Rehabilitation of County Structure B145 (Combermere Bridge) located on County Road 62 (Combermere Road), a distance of approximately 0.5 km South of County Rd 515 (Palmer Road) in the Township of Madawaska Valley**

is accepted by the Corporation.

It is a condition to this Agreement that if the above-mentioned Tender is accepted, a Performance Surety must be completed with the undersigned within seven (7) days of acceptance of the Tender related thereto, otherwise this agreement shall be null and void.

DATED this _____ day of _____, 2025.

Name of Bonding Company

Signature of Authorized Person
Signing for Bonding Company

(Company Seal)

Print Name and Position

FT-6 Occupational Health and Safety Statutory Declaration

WSIB Firm Number _____

In submitting this tender/quotation, I/we, on behalf of

Legal Name of Company

certify the following:

- (a) I/We have a health and safety policy and will maintain a program to implement such policy as required by clause 25 the Occupational Health and Safety Act, R.S.O. 1990, c.O.1, as amended (the "OHSA").
- (b) For this Contract, as Contractor, I/we will fulfil the specific requirements of O.Reg. 213/91, Construction Projects, as amended.
- (c) With respect to the services being offered in this tender/quotation, I/we and our proposed subcontractors, acknowledge the responsibility to, and shall:
 - (i) fulfil all of the "employer" obligations under the OHSA and ensure that all work is carried out in accordance with the OHSA and its regulations;
 - (ii) ensure that adequate and competent supervision is provided as per the OHSA to protect the health and safety of workers;
 - (iii) provide information and instruction to all employees to ensure they are informed of the hazards inherent to the work and understand the procedures for minimizing the risk of injury or illness; and
 - (iv) ensure all work is carried out in accordance with the Occupational Health and Safety legislation.
- (d) As employer and Contractor for this project, I/we agree to take every precaution reasonable in the circumstances for the protection of worker health and safety, as required under the OHSA.

DATED this _____ day of _____, 2025.

Authorized Signing Officer

Title

FT-7 Accessibility Declaration

In submitting this tender/quotation, I/we, on behalf of

Legal Name of Company

certify the following:

- (a) As employer and Contractor for this project, I/we agree to remain in compliance with the requirements of the “Accessibility For Ontarians With Disabilities Act, 2005”, including Ontario Regulation 191/11 and Ontario Regulation 165/16.
- (b) I/We have viewed the County of Renfrew Multi-year Accessibility Plan located at: <https://www.countyofrenfrew.on.ca/en/county-government/resources/Documents/accessibility-plan.pdf>

DATED this _____ day of _____, 2025.

Authorized Signing Officer

Title

FT-8 Photograph/Video Declaration

The County of Renfrew or its designate will be taking photos, video, and recordings throughout the construction site, which may be used for contract administration, documentation, and may be used in any and all media produced by the County of Renfrew, including the County of Renfrew’s future advertising, publications, and social media feeds.

In submitting this tender/quotation, I/we, on behalf of

Legal Name of Company

agree that I/we grant the County of Renfrew the right to use our name, photographs, video, and recordings for such purposes as may be deemed appropriate by the Corporation or required by the Municipal Freedom of Information and Protection of Privacy Act. (MFIPPA).

DATED this _____ day of _____, 2025.

Authorized Signing Officer

Title

FT-9 List of Subcontractors

The following is a list of Subcontractors which we propose to employ for this work and is required as part of the Tender Submission using the form provided in Bids & Tenders.

SUBCONTRACTED WORK	NAME AND ADDRESS	VALUE OF WORK
1.		
2.		
3.		

FT-10 Bid Bond

KNOW ALL MEN BY THESE PRESENTS THAT

as Principal hereinafter called the Principal, and

a corporation created and existing under the laws of Canada and duly authorized to transact the business of Suretyship in Canada as Surety, hereinafter called the Surety, are held and firmly bound unto

as Obligee hereinafter called Obligee, in the amount of

_____ DOLLARS

(\$ _____) lawful money of Canada, for the payment of which sum, well and truly to be made, the Principal and the surety bind themselves, their heirs, executors, administrators, successors and assigned, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a written tender to the Obligee,

DATED this _____ day of _____, 2025.

for

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the aforesaid Principal shall have the tender accepted within sixty (60) days from the closing date of tender and the said Principal will, within the time required enter into a formal contract and give the specified security to secure the performance of the terms and conditions of the Contract, then its obligation shall be null and void; otherwise the Principal and the Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be excess of the former.

The Principal and the Surety shall not be liable for a greater sum than the specified penalty of this Bond. Any suit under this Bond must be instituted before expiration of six months from the date of this Bond.

IN WITNESS WHEREOF, the Principal and the Surety have Signed and Sealed this Bond this

DATED this _____ day of _____, 2025.

SIGNED AND SEALED

In the presence of

Witness to Principal

Principal

Surety Company

SECTION B
FORM OF AGREEMENT

This Form of Agreement witnesses that a Contract was made this ____ day of _____, 2025

BETWEEN:

hereinafter called the “Contractor”

AND:

The Municipal Corporation of the County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5

hereinafter called the “Corporation”

AND WITNESSES that the Contractor and the Corporation agree as follows:

FA-1 The Contractor shall perform the following work:

Contract Number **PWC-2025-46**

Described as **Rehabilitation of County Structure B145 (Combermere Bridge)**
Located on County Road 62 (Combermere Road)

A distance of **approximately 0.5 KM South of County Rd 515 (Palmer Road)**

In the **Township of Madawaska Valley**

FA-2 The Contractor shall perform the work in accordance with the Contract Documents listed in the Tender including the following Addenda:

Addendum No. _____ dated _____, 2025.

Addendum No. _____ dated _____, 2025.

Addendum No. _____ dated _____, 2025.

Addendum No. _____ dated _____, 2025.

FA-3 The Corporation shall pay the Contractor in accordance with the unit prices in the Schedule of Prices in the Tender pursuant to the Contract Documents.

FA-4 The provisions of the Contract Documents shall attribute to the benefit of and be binding upon the Contractor and the Corporation and their respective heirs, legal representatives, successors and assigns.

FA-5 Acceptance of the Contractor's offer by the Corporation and execution of this agreement by the Contractor, shall constitute a legally binding agreement between both parties.

IN WITNESS WHEREOF the Contractor has executed this Form of Agreement in the manner required by the Tender.

Signature of Witness
(Only if required by TC-1)

NAME OF CONTRACTOR

SIGNATURE

PRINT NAME

Municipal Corporation of the County of
Renfrew

PETER EMON, WARDEN

CRAIG KELLEY, CAO/DEPUTY CLERK

SECTION C
SUPPLEMENTAL
GENERAL CONDITIONS

INDEX FOR SECTION 'C' – SUPPLEMENTAL GENERAL CONDITIONS

GC 1.0	Interpretation	C-1
GC 2.0	Contract Documents	C-2
GC 3.0	Administration of the Contract.....	C-3
GC 4.0	Owner’s Responsibilities and Rights.....	C-4
GC 5.0	Material.....	C-7
GC 6.0	Insurance, Protection, and Damage	C-9
GC 7.0	Contractor’s Responsibilities and Control of the Work.....	C-11
GC 8.0	Measurement and Payment	C-16
	Language of the Contract.....	C-17
	Ownership of Documents	C-17

SECTION GC 1.0 – INTERPRETATION

Section GC 1.0 – Interpretation is hereby amended and / or extended as follows:

GC 1.02 Abbreviations

Subsection GC 1.02 is hereby extended by the addition of the following:

OHBDC - Ontario Highway Bridge Design Code. Latest revision and amendments thereto.

CHBDC – Canadian Highway Bridge Design Code.

GC 1.04 Definitions

Subsection GC 1.04 is hereby extended by the addition of the following:

Contract Award – The Contract shall be interpreted to be awarded on the date the Contract has been executed according to the requirements set out in the County of Renfrew Corporate Policy GA-01 Procurement of Goods and Services.

Corporation – The Municipal Corporation of the County of Renfrew.

County – The Municipal Corporation of the County of Renfrew.

Council – The Council of the County of Renfrew.

Director – The duly appointed Director of Public Works and Engineering of the County or designate.

Municipality – The Municipal Corporation of the County of Renfrew.

Operations Committee – The Committee of County Council appointed to oversee the operations of the County of Renfrew Public Works and Engineering Department.

Sewer – A conduit which has been designed to carry storm waste, sanitary waste or both and which is designated as a sewer in the drawings or Contract documents.

SECTION GC 2.0 – CONTRACT DOCUMENTS

Section GC 2.0 – Contract Documents is hereby amended and / or extended as follows:

GC 2.01 Reliance on Contract Documents

Subsection GC 2.01 is hereby deleted in its entirety and replaced by the following:

- .01 The Contractor also declares that in tendering for the work and in entering into the Contract it did not and does not rely on the accuracy of any geo-technical information provided by the Corporation. The Tenderer acknowledges that all geo-technical information provided by the Corporation is for information only and the Corporation makes no representation or warranty as to the accuracy of the information.

- .02 The Contractor also declares that in tendering for the work and in entering into the Contract it did not and does not rely upon information furnished by the Corporation or any of its servants or agents respecting the location or depth of underground utilities or services or the location of aerial utilities. The Contractor shall not make claim against the Corporation for damages or extra work resulting from the Contractor's reliance upon information furnished by the Corporation or any of its servants or agents respecting the location or depth of underground utilities or services or the location of aerial utilities.

- .03 The Contractor shall review all information provided by the Corporation or any of its servants or agents and shall immediately contact the Director if any of the information provided is not or does not appear to be complete.

SECTION GC 3.0 – ADMINISTRATION OF THE CONTRACT

Section GC 3.0 – Administration of the Contract is hereby amended and / or extended as follows:

GC 3.01 Contract Administrator’s Authority

Subsection GC 3.01 is hereby extended by the addition of the following:

- .18 The Director of Public Works and Engineering shall have overall authority over the Contract and shall be the ultimate owner’s representative. Notwithstanding any other provisions of the General Conditions, the Director shall be final authority in the event of a dispute between the Contractor and the Contract Administrator and the Director’s decision shall be final.

GC 3.02 Working Drawings

Subsection GC 3.02 is hereby extended by the addition of the following:

- .08 Where shop drawings, design calculations or working drawings are required by the specifications, the Contractor shall, in all cases, submit one electronic copy in PDF format for review. The drawings shall conform in size to the Corporation’s Contract drawings. These electronic drawings shall include all revisions and shall reflect the as-built condition.

SECTION GC 4.0 – OWNER’S RESPONSIBILITIES AND RIGHTS

Section GC 4.0 – Owner’s Responsibilities and Rights is hereby amended and / or extended as follows:

GC 4.01 Working Area

Subsection GC 4.01 is hereby extended by the addition of the following:

.03 The Contractor shall not designate areas within the limits of the work or the road allowance for storage of its equipment and materials or the erection of offices or sheds or both without the prior approval of the Contract Administrator. Neither equipment nor materials shall be stored within four (4) metres of the travelled portion of any roadway. Notwithstanding the foregoing, the Contractor shall at its own expense remove any equipment or materials, which in the Contract Administrator's opinion constitutes a traffic hazard. The Contractor shall not make any claim for extra compensation if it makes arrangements to store equipment or materials outside the limits of the work or the road allowance. The Contractor cannot close any road without the approval of the Director of Public Works and Engineering.

The Corporation shall be responsible for informing police, fire, and public transportation departments of any work which will cause disruption in routes or schedules. The Contractor must provide the Corporation 48 hours minimum advance notice of any scheduled disruption.

The Contractor shall not operate or place unlicensed vehicles or construction equipment within 3.5 metres of a lane carrying traffic. If, in the sole discretion of the Contract Administrator, it is necessary to operate or place unlicensed vehicles or construction equipment closer than 3.5 metres to a lane carrying traffic, the Contractor shall erect delineators along the edge of the travelled lane in accordance with the Ontario Traffic Manual Book 7.

The Contractor shall not operate tracked vehicles on bridge decks without the prior written approval of the Director of Public Works and Engineering.

GC 4.05 Default by the Contractor

Subsection GC 4.05 is hereby deleted in its entirety and replaced by the following:

.01 The Corporation may find the Contractor in default of the Contract if the Corporation certifies that sufficient cause exists to justify such action. Such termination of employment may be made:

(a) If the Contractor should be adjudged as bankrupt, or

- (b) If the Contractor should make a general assignment for the benefit of its creditors, or
- (c) If a receiver should be appointed on account of its insolvency, or
- (d) If the Contractor should take the benefit of any Act relating to insolvent debtors, or
- (e) If a winding up order be made against the Contractor, or
- (f) If the Contractor should refuse or fail to supply enough plant, properly skilled labour or proper materials after having received seven (7) days notice in writing from the Corporation to so do, or
- (g) If the Contractor should fail to make prompt payment to subcontractors and suppliers, or
- (h) If the Contractor should persistently disregard laws, ordinances or the instructions of the Corporation, or
- (i) If the Contractor should otherwise be guilty of substantial violation of the provisions of the Contract.

GC 4.10 Termination of the Contract

Subsection GC 4.10 is hereby extended by the addition of the following:

- .03 Should the Corporation terminate the employment of the Contractor, as provided in Subsection 4.05.01 (a) the Corporation shall give the Contractor seven (7) days written notice of such termination of employment.

Notwithstanding the general requirements of Section GC 4.0, the following additional requirements shall apply:

GC 4.14 Prosecution of the Contract

- .01 Notwithstanding the time allowed for completion of the work, if, in the opinion of the Director of Public Works and Engineering, the rate of progress of any part or parts of the work, or the rate of progress during any periods during which the work is being carried on or is required to be carried on is unsatisfactory, and if amounts are payable by the Corporation in respect of site supervision of the work, traffic control, compensation for damages by reason, in the opinion of the Director, of such unsatisfactory rate of progress, the Contractor shall be liable to the Corporation for the payment of such amounts and such amounts may be deducted by the Corporation from any money due or that may become due to the Contractor under the Contract.

GC 4.15 Relocation of Utilities

- .01 Except as otherwise provided in this Contract, the removal, realignment or change of the location or position of any utility or service, or component part of either, shall not be at the Contractor's expense.

- .02 The Contractor shall strip or uncover and support or sustain any utility or service, or component part of either, before removal or during realignment or change at the Contractor's expense.
- .03 Should the location or position of any gas or water pipe, public or private sewer or drain, subway, conduit, railway or other structure be such as, in the opinion of the Director, to require its removal, realignment or change; such removal, realignment or change shall, subject to the provisions of Subsection GC 7.12, be without cost to the Contractor for the work of removal, realignment or change only. However, such structure shall be stripped or uncovered and supported or sustained by the Contractor at its own cost and expense before such removal or before and after such realignment or change as constituting part of the Contract. The Contractor shall not become entitled to claim any damage or extra compensation from or on account of any delay due to removal or rearrangement. The Contractor shall be entitled to an extension of the time for the equivalent time that the work has been delayed by any delay in the removal, realignment or change of any such obstruction.

SECTION GC 5.0 – MATERIAL

Section GC 5.0 – Material is hereby amended and / or extended as follows:

GC 5.01 Supply of Material

Subsection GC 5.01 is hereby extended by the addition of the following:

.02 Receipt of Contractor Supplied Materials

Upon the request of the Contract Administrator, the Contractor shall give the Contract Administrator a copy of delivery notes regarding all materials supplied by the Contractor delivered to the site. The delivery notes shall state:

- (a) the exact quantity and quality of the materials delivered;
- (b) the date and time of departure from source of supply;
- (c) the date and time of delivery;
- (d) the truck identification number; and
- (e) work site.

The Contractor shall give the delivery notes to the Contract Administrator at the time of delivery. If the Contractor fails to give the delivery notes to the Contract Administrator, the Corporation may refuse to accept delivery of the material.

The Contractor shall be responsible for the acceptance of materials at the work site. If any representative of the Corporation accepts the material delivered to the work site, such acceptance shall not be proof of the quality or quantity of materials delivered.

.03 Testing

The Contractor is hereby advised that all costs associated with Quality Control (QC) including testing of all material shall be borne by the Contractor.

All costs associated with Quality Assurance (QA) by the Contract Administrator including testing of all materials shall be borne by the Corporation.

.04 Design of Asphalt and Concrete Mixes

The Contractor shall, at its own expense, design concrete and asphaltic mixes. The Contractor's design shall conform to the requirements for the class of concrete and type of asphalt mix specified in the Contract and the design shall be subject to the approval of the Director. Such approval by the Director shall not release the Contractor from any responsibilities for the adequacy or soundness of the concrete or asphalt mix.

GC 5.03 Rejected Material

Subsection GC 5.03 is hereby extended by the addition of the following:

- .02 The Contractor shall at any time during the progress of the work or during the period of guaranteed maintenance, make such opening through any part of the work to such an extent as directed by the Contract Administrator for the purposes of inspection of the whole or part of the work. Should the work so opened be found to be faulty in respect of the requirements of the Contract, the whole expense of opening, inspection, replacement and restoration shall be borne by the Contractor. Should the work so opened to inspection be found by the Contract Administrator to be in satisfactory condition and in full compliance with the requirements of the Contract, then the said expenses shall be borne by the Corporation.

SECTION GC 6.0 – INSURANCE, PROTECTION, AND DAMAGE

Section GC 6.0 Insurance, Protection, and Damage is hereby amended and / or extended as follows:

GC 6.01 Protection of Work, Persons, and Property

Subsection GC 6.01 is hereby extended by the addition of the following:

.06 Dust Control

Without limiting the generality of Subsection GC 6.01, the Contractor shall prevent excessive amounts of dust from entering the air as a result of the work. The amount of dust which is excessive shall be in the sole discretion of the Contract Administrator. The Contractor shall use wet type blades and grinders with sufficient water to control dust when the work requires the Contractor to saw or grind asphalt or concrete. The Contractor shall pay for all measures taken to control dust except as otherwise provided in the Contract.

.07 Protection of Underground Installations

Without limiting the generality of Subsection GC 6.01, the Contractor shall protect all sewers, water mains, service pipes and other utilities from freezing and from any damage whatsoever. The Contractor shall immediately report any leak in or damage to sewer, water mains, service pipes, or other underground utilities or services, however caused to the Department or utility having jurisdiction and the Contract Administrator. The Contractor shall protect and insulate sewer, water mains, service pipes, repair water and service pipes and utilities which it damages, and thaw frozen water, service pipes at its own expense. The Contractor shall perform all work related to water and service pipes and utilities to the satisfaction of the Contract Administrator and the organization having jurisdiction and at the Contractor's cost.

.08 Traffic and Directional Signage

Any damage to existing permanent or temporary signage by the Contractor shall be rectified to the satisfaction of the Contract Administrator and at the Contractor's expense.

.09 Trees and Vegetation

Any trees damaged on private property, shall be removed and replaced to the Corporation's satisfaction, at the Contractor's expense. Any trees within six (6) metres of any trenching, which, in the opinion of the Contract Administrator, should be removed, will be removed and disposed of including stumps and roots, by the

Contractor at the Contractor's expense, to the satisfaction of the Ministry of the Environment.

All trees, shrubs, and other vegetation, as designated by the Contract Administrator to be saved, shall be carefully protected from danger or injury during all phases of the construction operations. The Contractor may be required to cut only certain selected trees on certain areas leaving the rest of the trees in the indicated areas unharmed.

GC 6.03.02 General Liability Insurance

Subsection GC 6.03.02 is hereby extended by the addition of the following:

.08 Approval of Insurance

The Corporation's receipt and acceptance of a Certificate of Insurance is in no way an approval of the Contractor's policy or policies of insurance, and does not affect the obligations to insure set out in this section.

.09 Blasting Endorsement

If the Contractor is to engage in blasting operations, it shall ensure that it obtains an endorsement to its general liability insurance which overrides the blasting exclusion in that general liability insurance so that the Contractor is insured for its blasting operations until the date of acceptance of the entire work by the Director of Public Works and Engineering.

SECTION GC 7.0 – CONTRACTOR’S RESPONSIBILITIES AND CONTROL OF THE WORK

Section GC 7.0 – Contractor's Responsibilities and Control of the Work is hereby amended and / or extended as follows:

GC 7.01 General

Subsection GC 7.01.13, is hereby extended by the addition of the following:

- .13 The Contractor shall prepare the Detailed Work Schedule in bar chart form. The Detailed Work Schedule shall display the following items against a weekly time scale representing the total time period for completion of the work:
- (a) The dates of, and time periods required for, all major construction activities included in the Work;
 - (b) The dates of critical activities and events; and
 - (c) The dates of important milestones in the completion of the Work.

The Contractor shall update both the Detailed Work Schedule on a monthly basis or, if directed to do so by the Contract Administrator, at more frequent intervals.

The submission and updating of the Detailed Work Schedule form an integral part of the Work. Should the Contractor fail to meet its obligations to submit and update the Detailed Work Schedule, the Corporation, in its sole discretion, may withhold monthly payments under the Contract until the obligations are met.

GC 7.12 Notices by the Contractor

Subsection GC 7.12 is hereby extended by the addition of the following:

- .03 The Corporation may notify householders likely to be affected by the work of the name and telephone number of the Contractor and the expected duration of construction. The Corporation may advise these householders to contact the Contractor directly with respect to any inquiries related to the work. The Contractor shall respond to these inquiries or problems promptly, courteously and truthfully.

GC 7.16 Warranty

Subsection GC 7.16 is hereby removed in its entirety and replaced by the following:

- .01 The Contractor warrants that the work shall, for a period of one (1) year from the date of total performance of the Contract, be free of any defects or deficiencies or both to the satisfaction of the Director of Public Works and Engineering.
- .02 The Contractor shall correct promptly, at its own expense and to the satisfaction of the Director, any defects or deficiencies in the work which appear prior to and during the

period of one (1) year from the date of total performance of the work or such longer periods as may be specified for certain products or work. The determination of the existence of a defect or deficiency in the work shall be in the sole discretion of the Director.

- .03 If the Contractor fails to correct the defect or deficiency or both, or fails to correct it promptly, as determined by the Director, the Corporation may correct the defect or deficiency or both. All monies payable to the Corporation by the Contractor under any stipulation herein may be retained out of any monies then due, or which may become due, from the Corporation to the Contractor under this or any other Contract with the Corporation, or otherwise howsoever, or may be recovered from the Contractor or its surety, in any court of competent jurisdiction, as a debt due to the Corporation and the Director shall have full power to withhold any estimate or certificate, if circumstances arise which may indicate to them the advisability of so doing though the sum to be retained may be unascertained.
- .04 The Corporation shall give the Contractor twenty-four (24) hours written notice of its intention to correct the defect or deficiency or both itself prior to the start of the corrective work.

Section GC 7.0 – Contractor's Responsibilities and Control of the Work is hereby further extended by the inclusion of the following additional requirements:

GC 7.19 Inspection

"No work shall commence without on-site inspection by the Contract Administrator or its designate."

GC 7.20 Spills and Discharge of Deleterious Materials

- .01 The Contractor shall forthwith report to the Contract Administrator:
- (a) spills or discharges of pollutants or contaminants under the control of the Contractor; and
 - (b) spills or discharges of pollutants or contaminants that are as a result of the Contractor's operation that cause or are likely to cause adverse effects. Such spills or discharges and their adverse effects shall be as defined in the Environmental Protection Act, R.S.O. 1990, as amended and all regulations thereto.
- .02 The Contractor shall report forthwith to the Contract Administrator any spill or discharge of liquid, other than accumulated rainwater, from luminaries, internally illuminated signs, lamps, and liquid-type transformers, which are under the control of the Contractor.

- .03 The Contractor shall assume, unless otherwise directed by the Contract Administrator, that all spills or discharges from luminaries, internally illuminated signs, lamps, and liquid-type transformers contain PCBs.
- .04 The reporting requirements of this section shall not relieve the Contractor of its legal responsibilities with respect to any municipal, provincial or federal legislation.
- .05 The Contractor shall ensure that no contamination, waste or other substances which may be detrimental to marine life or quality of water shall enter any water course as either a direct or indirect result of construction and the Contractor shall meet all requirements of Government authorities or agencies with respect to environmental protection.
- .06 The Contractor shall be prepared to immediately clean up any spills of contamination, waste or other substances which may be either detrimental to marine life or quality of water. In the event of a spill, the Contractor shall immediately commence a clean-up operation. The Contractor shall be liable for all damages and/or charges laid which result, either directly or indirectly, from the spill, or contamination of any kind which results from its construction operations.
- .07 The Contractor shall exercise reasonable care to ensure that sediment run-off does not enter any watercourse. Berms, silt screens and other works shall be constructed as required and at appropriate locations to ensure that turbidity shall be kept to a minimum as determined by the Government authorities and agencies.
- .08 The Contractor shall submit a proposed plan indicating how it intends to provide for securing the site against erosion and river siltation problems for the full duration of the construction period, i.e., from start of construction to final completion.
- .09 The Contractor shall immediately clean up and dispose of any floating debris which accumulates on the water course bed or banks as a result of construction.
- .10 The Contractor shall not make any claim for extra compensation for the cost of fulfilling the obligations set out herein.

GC 7.21 Disposal of Surplus Materials

- .01 Where the Contractor is responsible for the removal and/or disposal of any material from the site; the Contractor shall do so in an environmentally acceptable manner to the satisfaction of the Contract Administrator and the regulatory authorities having jurisdiction. Payment under the Contract shall be full compensation for doing the work and shall include the costs of all fees for disposal and regulatory approvals.

GC 7.22 Site Meetings

- .01 The Contractor shall attend meetings with respect to the work as may be directed by the Contract Administrator. The Contractor shall not claim any extra compensation for attendance at these meetings.

GC 7.23 Contamination of Sub-base

- .01 The Contractor shall be held responsible for contamination of sub-base material and damage to subgrade by its forces once work commences on this project. All such contamination or damage shall be rectified by the Contractor at its expense to the satisfaction of the Contract Administrator.

GC 7.24 Traffic Control

- .01 The Contractor shall be responsible for the maintenance of signs, delineators, barricades, lanterns and flashing lights at all times. This maintenance shall include a minimum of two inspections per day of all signs, delineators, barricades, lanterns and flashing lights. These inspections shall occur at least once in the morning and once in the evening.
- .02 The Contractor's responsibility for signs, delineators, barricades, lanterns and flashing lights includes signs, delineators, barricades, lanterns and flashing lights which may, in the discretion of the Contract Administrator, be required beyond the limits of the work site.
- .03 If any portion of the work requires signs to be provided by the Corporation or changes to existing signs of the Corporation, or the municipal organization having jurisdiction, the Contractor shall give the Corporation at least eight (8) hours notice prior to the start of that portion of the work. This notice shall be given on a working day. The Contractor shall not make any claim for extra compensation for delays or costs arising from its failure to comply with this eight (8) hour notice requirement.

GC 7.25 Cooperation with Utilities and Municipal Authorities

- .01 Without limiting the generality of this section, the Contractor shall:
- (a) co-operate with municipal authorities and utility companies in the relocating or altering of utilities or services;
 - (b) if directed to do so by the Contract Administrator, modify its method of construction to protect utilities or services;
 - (c) if directed to do so by the Contract Administrator, remove, realign or change the location or position of any utility or service, or component part of either; and

- (d) strip or uncover and support or sustain any utility or service, or component part of either, to safeguard the utility or service from damage before removal or during realignment or change.

GC 7.26 Work Outside Normal Working Hours

- .01 The Contractor shall not work at night, except:
 - (a) if the Contractor requests and receives the prior written approval of the Director of Public Works and Engineering to work at night; or
 - (b) if the Director directs the Contractor to work at night.
- .02 The term "night" shall be defined as any time between the hours of 7:00 p.m. and 7:00 a.m. for the purposes of the Contract. The Contractor shall not make any claim for extra compensation for work done at night.
- .03 The Contractor shall, as far as is practicable, refrain from working on a day which is not a working day. If the Contractor intends to work on a day which is not a working day the Contractor shall give the Contract Administrator written request of this intention at least four (4) working days before that day. The notice shall state the date and place of the work to be done. If the Contract Administrator grants permission to the Contractor to work on Saturdays, Sundays, or Statutory Holidays, the Contractor shall compensate the owner for the actual wages of the Contract Administrator and the OPSS 127 rates for the vehicle used.
- .04 If the Contractor fails to notify the Contract Administrator as set out in this section, this failure shall be deemed to be notice that no work requiring the presence of any representative of the Corporation is to be done on that day. The Contractor shall not make any claim for extra compensation for work done on a day which is not a working day.

SECTION GC 8.0 – MEASUREMENT AND PAYMENT

Section GC 8.0 – Measurement and Payment is hereby amended and / or extended as follows:

GC 8.02.03.01 Progress Payment Certificate

Subsection GC 8.02.03.01.04 is amended by the addition of the following:

Subject to the submission of testing and commissioning results to the improvement or of services or materials supplied under the contract.

GC 8.02.09 Liquidated Damages

Subsection GC 8.02.09 is hereby extended by the addition of the following:

- .02 The Contractor shall complete the work by the time specified in the Tender unless an extension of time is granted pursuant to Subsection GC 3.06. If an extension of time is not granted, and the Contractor does not complete the work by the specified time, the Contractor shall pay the Corporation, as liquidated damages, the per diem amount set out in the Tender.
- .03 If the Director grants the Contractor an extension of time pursuant to Subsection GC 3.06, the Contractor shall complete the work by the revised specified time for completion. If the Contractor fails to complete the work by the revised specified time, the Contractor shall, from the day after the revised specified time, pay the Corporation, as liquidated damages, the per diem amount set out in the Tender.
- .04 The Corporation, following notice in writing to the Contractor of its intention to do so, may withhold the amount due as liquidated damages from any monies due to the Contractor under this or any Contract.
- .05 The Corporation has made a reasonable effort to estimate the amount of damages sustained by the Corporation as a result of the Contractor's failure to complete the works within the specified time or by the specified date. In executing the Contract, the Contractor agrees that the amount is fair and reasonable.

GC 8.02.10 Workplace Safety and Insurance Board Certificate of Clearance

- .01 The Contractor shall ensure that the Contract Administrator has a valid Workplace Safety and Insurance Board Certificate of Clearance on file as a condition of any payment.

In addition to the requirements of the General Conditions as amended or extended by these Supplemental General Conditions, the following requirements shall apply:

LANGUAGE OF THE CONTRACT

The language of the Contract shall be English.

OWNERSHIP OF DOCUMENTS

All designs and documents, including all drawings, specifications models and similar items supplied by the Corporation are its property. Such documents are not to be used on other work, and shall be returned by the Contractor to the Contract Administrator on completion of the works.

SECTION D

SPECIAL PROVISIONS GENERAL

INDEX FOR SECTION 'D' – SPECIAL PROVISIONS GENERAL

D-100-001	Maintenance of Traffic Flow	D-1
D-100-002	Identification of Local Ministry of Environment, Conservation and Parks.....	D-2
D-100-003	Dust Suppression	D-3
D-100-004	Work Schedule	D-3
D-100-005	Measurement and Payment (Lump Sum Items).....	D-4
D-100-006	Property Owner's Release Form	D-4
D-100-010	PWC-2025-46 Road Closure.....	D-5
D-100-011	Occupational Health and Safety Act Compliance	D-5
D-100-015	Existing Utilities and Operational Constraints	D-6
D-100-016	Transportation of Structural Components	D-7
D-100-017	PWC-2025-46 Scheduling of Works	D-8
D-100-018	Contract Limits	D-9
D-100-019	Erosion and Sediment Control Measures	D-9
D-100-020	Surplus Material.....	D-9
D-100-021	Electrical Inspection	D-10
D-100-022	PWC-2025-46 Scope of Work	D-10
D-100-025	Work Permits	D-11
D-100-028	Provisional Items - Contingency Allowance.....	D-11
D-100-029	Material Design, Testing and Documentation	D-11
D-100-030	PWC-2025-46 Working Hours.....	D-12
D-100-031	Overhead Utilities	D-12
D-100-034	Designated Sources.....	D-13
D-100-035	Quality Control Program	D-13
D-100-036	Aggregate for Concrete.....	D-13

D-100-049	Administration of Pits and Quarries	D-15
D-100-050	Quality Control by Contractor.....	D-15
D-100-051	Species at Risk Mitigation	D-16
D-100-056	Contractor's Representative	D-17
D-100-061	Road Authority / Municipal Business Signs	D-17
D-100-066	PWC-2025-46 Access to Sanitary Facilities	D-18

The Contractor is to schedule his operation in such a manner as to cause the least interference to vehicular and pedestrian traffic.

Traffic Management Plan

The Contractor shall provide a Traffic Management Plan to the Contract Administrator a minimum of two weeks prior to construction showing proposed traffic controls at various stages of his operation based on the following minimum requirements:

- Access to all private residences and commercial businesses shall be maintained for the duration of the Contract.

Restriction on the Use of Construction Equipment and Unlicensed Vehicles

Unlicensed vehicles and construction equipment shall not travel, work or stop within 4 m of a lane carrying traffic except where construction operations necessitate the working area be less than 4 m from traffic, in which case the Contractor shall erect delineators along the edge of the travelled lane, in accordance with GC 7.07 Maintaining Roads and Detours, of the OPS General Conditions of Contract. In no case shall the distance between traffic and working area be less than 3.5 m.

Open Excavation

The Contractor shall schedule his work so that there will be no open excavation adjacent to or crossing a lane carrying traffic overnight and on non-working days. Excavations within 4 m of lanes carrying traffic shall be backfilled with the specified material up to profile grade and compacted prior to closing down operations or protected with concrete barriers and delineations to the satisfaction of the Contract Administrator.

Traffic Signing

The Contractor shall supply and maintain signs, delineators, barricades, flashing lights to mark approaches to the work site to the satisfaction of the Contract Administrator. All traffic control signs and associated operations shall conform to the requirements set out in the Ontario Traffic Manual (OTM).

Site Maintenance

The construction site access to the private residence and commercial businesses and temporary lanes shall be maintained in a satisfactory condition. The Contract Administrator may direct that the construction site access to commercial businesses and temporary lanes be graded a minimum of once daily including weekends. Additional grading may be required during inclement weather or heavy traffic conditions.

All costs associated with the maintenance of the temporary lanes, access to the private residence and commercial businesses including supply and placement of additional granular materials as directed by the Contract Administrator shall be paid for under the Contract Unit Price for the granular 'A' item.

Location and Storage of Material and Equipment

Materials shall not be stored within 4 m of the travelled portion of any roadway. Equipment shall not be stored within 4 m of the travelled portion of any roadway.

Notwithstanding the foregoing, the Contractor shall, at the Contractor's expense, remove any equipment or material which, in the opinion of the Contract Administrator, constitutes a traffic hazard.

Section GC 7.07.07 Amendment

Section GC 7.07.07 Maintaining Roads and Detours of the OPS General Conditions is deleted. All Contractors' costs associated with protection of public traffic and maintaining the work site are deemed to be included in the tender prices unless a specific item is set up in the Tender Form.

D-100-002

IDENTIFICATION OF LOCAL MOE OFFICE

March 2020

Notification to the Ministry of the Environment, Conservation and Parks (MOECP) that is required elsewhere in this Contract shall be provided to the MOECP Office in Ottawa at the following address:

Ministry of the Environment, Conservation and Parks
 Ottawa District Office
 Unit 103, 2430 Don Reid Drive
 Ottawa, Ontario
 K1H 1E1

Telephone: (613) 521-3450 ext 224
 (800) 860-2195

Attn: Tracy Hart, District Manager

D-100-003**DUST SUPPRESSION**January 2014

The Contractor shall take such steps as may be required to prevent dust nuisance resulting from the Contractor's operations either within the right-of-way or elsewhere or by public traffic where it is the Contractor's responsibility to maintain a roadway through the work.

Where the work requires the sawing of asphalt or the sawing or grinding of concrete, blades and grinders of the wet type shall be used together with sufficient water to prevent the incidence of dust, wherever dust would affect traffic or wherever dust would be a nuisance to residents of the area where the work is being carried out. The cost of all such preventative measure shall be borne by the Contractor.

The cost of supplying and placing water to reduce the dust caused by traffic on a roadway which is the Contractor's responsibility to maintain for public traffic, shall be included in the Contract prices for the items for which dust suppression is required.

Payment for all labour, equipment, and materials to do the work for dust control and water for compaction shall be included in the applicable Tender Item(s).

D-100-004**WORK SCHEDULE**December 2015

The Contractor shall submit a Detailed Work Schedule as part of their submission when tendering. This submission schedule is to be dated and signed.

The Contractor shall prepare the Detailed Work Schedule in a bar chart format, which shall display the following items on a weekly time scale representing the total time period for the completion of the Work:

- i) the dates of, and time periods required for, all major individual construction activities included in the Work;
- ii) the dates of critical activities and events; and
- iii) the dates of important milestones in the completion of the Work.

The successful Contractor shall update the Detailed Work Schedule on a monthly basis, or if directed to do so by the Contract Administrator, at more frequent intervals.

The submission and updating of the Detailed Work Schedule form an integral part of the Work. Should the Contractor fail to meet its obligations to submit and update the Detailed Work

Schedule, the Contract Administrator, at its sole discretion, may withhold monthly payments under the Contract until the obligations are met.

D-100-005 **MEASUREMENT & PAYMENT – LUMP SUM ITEMS**
 March 2017

The Measurement and Payment provisions of all applicable Ontario Provincial Standard Specifications are hereby deleted for lump sum items. No separate measurement of payment will be made for work covered by these specifications. Payment for all labour equipment and materials required to do the work shall be included in the lump sum price bid for the work.

D-100-006 **PROPERTY OWNER’S RELEASE FORM**
 January 2019

Property Owner’s Release of Privately-owned Land Used by the Contractor

Upon completion of the Contract, the Contractor shall provide the Municipal Corporation of the County of Renfrew with a copy of this form of release signed by the Owner of each privately owned land used by the Contractor as follows:

Date: _____

TO: Director of Public Works & Engineering
 County of Renfrew Department of Public Works & Engineering
 9 International Drive
 Pembroke, ON K8A 6W5

Subject: Contract No. : _____

Contract Description: _____

To whom it may concern:

I hereby certify that _____ have fulfilled the terms of our agreement and have left my property in satisfactory condition.

I have accepted their final payment and release the County of Renfrew.

Yours very truly,

 (Print Name)

 (Signature)

 (Address of used land)

Final payment will not be paid to the Contractor until all the applicable forms of release have been signed by the Owner of each property used by the Contractor, and have been received by the County of Renfrew.

D-100C-010 - PWC-2025-46
ROAD CLOSURE

 October 2024

The Contractor is permitted to close Mill Street for the duration of the construction activities. Combermere Road (County Rd 62) may not be closed to traffic except for two (2) short duration overnight (2 hours maximum, each) full road closures for item thirty-four (34) only. The Contractor shall install, maintain and remove upon completion all required detour signage. The Contractor must submit the proposed detour route to the County 14 days prior to the start of this contract. The Contractor shall be responsible to obtain the approval of the various road authorities for the detour route and all relevant signage required to be erected. The Contractor will be required to develop and submit to the County a traffic control communications plan which includes the notification of emergency services and but is not limited to the following:

Township of Madawaska Valley
 Local Fire Department
 Local Residents and Businesses
 OPP
 School Boards
 Media Outlets
 Waste Management Companies.

D-100-011
OCCUPATIONAL HEALTH AND SAFETY ACT COMPLIANCE

 January 2020

In accordance with the Occupational Health and Safety Act, R.S.O. 1990, C.S.30, the Contractor is advised of the presence of the following Designated Substances.

Substance (Ontario Regulation Number)	Location
Asbestos on Construction Projects and in Buildings and Repair Operations (O. Reg. 278/05)	N/A

Substance (Ontario Regulation Number)	Location
Benzene (O. Reg 490/09)	Vehicle Emission
Mercury (O. Reg 490/09)	Vehicle Emission
Vinyl Chloride (O. Reg 490/09) Coke Oven Emissions (O. Reg 490/09) Ethylene Oxide (O. Reg 490/09) Acrylonitrile (O. Reg 490/09) Isocyanates (O. Reg 490/09)	Vehicle Emission
Silica (O. Reg 490/09)	Concrete, Granular, Blasting Medium, Throughout site
Arsenic (O. Reg 490/09)	Vehicle Emission, Throughout site
Lead (O. Reg 490/09)	Vehicle Emission, Steel paint coating
Bats and Bird droppings	Throughout site

The Contractor is advised that the Designated Substances silica (Ontario Regulation Number 490/09), lead (490/09) and arsenic (490/09) are generally present throughout the Working Area, occurring naturally or as a result of vehicle emissions. Exposure to these substances may occur as a result of activities by the Contractor such as sweeping, grinding, crushing, drilling, blasting, cutting, and abrasive blasting.

D-100-015

EXISTING UTILITIES AND OPERATIONAL CONSTRAINTS

 February 2015

The location of the underground utilities shown on the Contract Drawings is based on the information provided to the Contract Administrator. It is, however, the Contractor's responsibility to contract the Municipal Authorities or Utility Companies for further information with regard to the exact location of these utilities, to exercise the necessary care in construction operations and to take such other precautions as are necessary to safeguard the utilities from damage.

Prior to construction, the Contractor shall excavate such test pits as may be required to accurately locate all existing sewers, watermains, gas lines, communication lines, and other underground utilities which may cross or be in conflict with the proposed underground works within this Contract to permit the Contract Administrator to determine and implement any required adjustments due to grade conflicts. The Contractor shall have no claim against the Owner for any delays or costs to replace underground works already installed which may result from failure to accurately locate any underground facility as requested in advance.

The Contractor shall devise methodology of work and carry out the work in a manner as not to affect utility and shall be fully responsible for adequate protection of utilities from damage during construction.

The Contractor shall cooperate with utility companies which may need to carry out work on utilities during work on this Contract.

No responsibilities will be assumed by the Owner for the correctness or completeness of the plans with respect to the existing utilities, pipes, catch basins, chambers, or other objects, either underground or on the surface, and should the plots of such be found incorrect or incomplete, the Contractor shall have no claim on the account. The Owner does not ensure the accuracy of such information and the Contractor shall not make any claim against the Owner for damages or extra work caused or occasioned by his relying upon such records, reports or information either as a whole or in part.

D-100C-016

TRANSPORTATION OF STRUCTURAL COMPONENTS

March 2002

Background

Special Oversize/Overweight hauling permit(s) must be obtained from the Ministry's Oversize/Overweight Permits Section to transport indivisible oversize/overweight structural component(s) by highway carrier over King's highways. Maximum permitted Oversize/Overweight loads are as follows and subject to the stipulated travel restrictions. (Note: Dimensions include vehicle and load unless otherwise stipulated.)

Routine Oversize/Overweight Loads

Length: 23.3 m to 36.75 m, or
 Width: 2.60 m to 4.30 m, or
 Height: > 4.15 m requires clearance approval by the MTO Oversize/Overweight Permits Section.
 Weight: Gross weight up to 70,000 kg: axle weight shall not exceed 11 kg/mm tire width or Highway Traffic Act axle weight limits plus 10,000 kg, whichever is less. (Overweight allowance will not be permitted during the reduced load period March 1 to May 31).

Travel Restrictions

Travel in congested traffic conditions will not be permitted. The MTO Oversize/Overweight Permits Section may also restrict the permitted hours of travel through any designated urban area.

Loads shall be moved only during hours of daylight. Loads may not be moved during periods when, due to insufficient lighting or atmospheric conditions, persons and vehicles are not clearly discernable at a distance of 150 m or less.

A permit issued by the Ministry is valid only on the King's highways specified. Transit over any highway under the jurisdiction of a municipality requires a separate permit issued by the Municipality and shall be subject to such conditions as may be imposed by the Municipality.

Permits shall be conditional upon axle loadings, gross weight loadings and overhang as required by the MTO Oversize/Overweight Permits Section. Requirements for flagging, warning devices and private escort vehicle, may be obtained by contacting the MTO Oversize/Overweight Permit Section at (905) 704-2500 or (800) 387-7736.

The Owner is not responsible for any cost or delay arising from any route(s), vehicles or axle weights being rejected by the MTO Oversize/Overweight Permits Section or other authorities.

D-100-017 - PWC-2025-46

SCHEDULING OF WORKS

December 2024

For the information of the Contractor the works may be completed over two construction seasons. The first construction season shall commence on or about May 1, 2025, with installation of bird netting to occur on or about March 31, 2025. Winter shutdown shall commence on or before November 1, 2025. The second construction season shall commence on or about May 1, 2026.

All works associated with asphalt pavement, concrete in substructure, structural steel repair, bearing replacement, and expansion joint strip seal replacement shall be completed prior to the winter shutdown, including tender items: 2, 3, 4, 5, 6, 7, 10, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 32, 33, 34, 42, 43. Both lanes of County Rd 62 shall be open to traffic for the entire duration of the winter shutdown. The full width of the MUP shall remain open for the entire duration of the winter shutdown. Scaffolding shall be removed, or measures shall be put in place to prevent access by the public during the winter shutdown.

The actual commencement date will depend on the availability of inspection staff and the progress of the Corporation's other works. As the above date approaches, the Contractor will be contacted to advise of any changes in the above date and to agree upon a mutually acceptable commencement date. When the actual commencement date is known, a commence work order will be issued in accordance with the terms of the contract.

A change in the date of commencement of the works shall not be grounds for any claim by the Contractor for additional payment.

D-100-018**CONTRACT LIMITS**March 2002

The Corporation reserves the right to alter the contract limits or extent of construction to coincide with the funds available.

Any change in the contract limits or extent of the work shall be considered as relating solely to quantities and payment for the work shall be made at the appropriate contract unit price. In the case of an extension of the contract limits, the Contractor will be eligible for a pro rata extension of time based on the value of the additional work when the contract unit prices are applied to the additional quantities.

The application of Subsection GC 8.01.02 of General Conditions of Contract shall be based on the adjusted tender quantities subsequent to the change in the contract limits.

D-100-019**EROSION AND SEDIMENT CONTROL MEASURES**January 2024

The Contractor must provide the necessary protection measures to ensure that all waterways, swamps, ditches, and private property are protected from contamination during construction.

OPSS.MUNI 182 provides general specifications for environmental protection for construction in waterbodies and on waterbody banks, including temporary watercourse relocations and temporary waterbody crossings. These requirements apply to all Contractors operations related to this Contract including those operations not specifically within the contract limits or described in the contract documents.

All environmental protection measures required under this Contract shall be at the expense of the Contractor unless otherwise specifically identified in the contract documents.

OPSS.MUNI 805 details the various methods of erosion and sediment control which the Contractor should be prepared to utilize as the need arises during construction. These methods are intended as prevention and should be installed prior to construction in anticipated sensitive areas not after the damage is done. All erosion and sediment control measures shall be at the expense of the Contractor.

D-100-020**SURPLUS MATERIAL**May 2008

Excavated material surplus to the fill/grading requirements of this Contract shall be available to the Corporation prior to disposal by the Contractor.

Should the Corporation desire a portion or all of the surplus material, it shall be hauled to a designated site or sites within an eight (8) km radius of the Contract and stockpiled or spread as instructed by the Contract Administrator.

All costs associated with hauling, stockpiling and spreading shall be included within the tender unit price.

Material surplus to the above requirements shall be disposed of by the Contractor in accordance with OPSS.MUNI 180. Payment shall also be in accordance with OPSS.MUNI 180.

D-100C-021

ELECTRICAL INSPECTION

March 2002

All electrical work is subject to a detailed inspection by the Electrical Safety Authority.

The Contractor shall perform all work associated with inspection or re-inspection by the Electrical Safety Authority. This work includes, but is not limited to:

- (a) arranging and coordinating all visits to the construction site by the Electrical Safety Authority's inspectors;
- (b) correcting all defects identified by the Electrical Safety Authority, unless the defects are the direct result of compliance with the Owner's design of the work;
- (c) submitting all applications for inspection;
- (d) obtaining all permits;
- (e) obtaining all certificates;
- (f) obtaining all connection authorizations; and
- (g) performing any other work that may be required under the Ontario Electrical Safety Code.

No additional payment will be made for the work associated with inspection or re-inspection by the Electrical Safety Authority except for correcting defects that are the direct result of compliance with the Owner's design of the work.

D-100-022 - PWC-2025-46

SCOPE OF WORK

November 2024

The scope of work for the Combermere Bridge (Structure No. B145) Rehabilitation includes concrete patch repairs and concrete sealing on the parapet walls, minor handrailing repairs, replacement of a damaged portion of guiderail, repair to embankments, replacement of asphalt wearing surface and waterproofing on the bridge deck and approach slabs, structural steel diaphragm strengthening, miscellaneous steel repairs, freeing of a jammed girder, bearing replacement via bridge jacking, full replacement of structural steel coating, joint seal replacement, and miscellaneous expansion joint repairs. Lead paint abatement procedures will

be required to facilitate full replacement of structural steel coating. Bird netting shall be installed at least 30 days prior to construction start due to the presence of birds' nests at the site. Construction may be completed over two construction seasons. Construction shall be performed using a half/half construction staging maintaining a single signalized lane of traffic.

D-100C-025 - PWC-2025-46

WORK PERMITS

October 2024

The Contractor is responsible for obtaining all necessary work permit(s) from the local municipality, if required.

Noise by-law exemption: The Township of Madawaska Valley prohibits "unnecessary noise" between **1:00 am and 6:00 am**. A noise by-law exemption could be obtained to allow the Contractor to work outside the allowable noise restriction windows.

Transport Canada (TC): The Canadian Navigable Waters Act (CNWA, R.S.C., 1985, c. N-22) is enforced through the Navigation protection program administered by Transport Canada. Approval from Transport Canada is required for some bridge work over waterways and is determined based on the act. An application to Transport Canada has been submitted and the Contractor is required to adhere to the conditions of the permit.

D-100-028

PROVISIONAL ITEMS/CONTINGENCY ALLOWANCE

August 2003

Provisional Items and/or Contingency Allowances may be included in the Form of Tender should circumstances require the use of any of the Items or Contract Change Orders be processed.

These Items will only be used and payment issued as authorized by the Contract Administrator.

D-100-029

MATERIAL DESIGN, TESTING AND DOCUMENTATION

February 2008

General

Upon official notification of award of tender, the Contractor shall submit for the Contract Administrator's review and approval, the following documentation as it applies to the Contract:

- Hot mix and cold mix asphalt design mixes including gradation and physical properties
- Concrete design mixes
- Aggregate gradation and physical properties test results
- Topsoil organic test results
- Traffic Control Plan according to Ontario Traffic Control Manual, Book 7

Hot mix, cold mix, and concrete designs shall identify the granular sources they are based upon and which shall be in effect for this Contract.

The test results for aggregates shall be current and shall conform to the pit source in effect for this Contract.

Imported topsoil sources shall be identified for this Contract.

Granular sampling and testing is to be completed by a Geotechnical firm.

Payment for Items Requiring Compliance Testing

For those items which require testing to confirm compliance with specifications after materials have been incorporated into the works, the Contract Administrator will withhold 30% of the Contract Price until satisfactory compliance with the contract requirements has been confirmed.

D-100-030 - PWC-2025-46

WORKING HOURS

October 2024

The Contractor shall comply with the Municipal by-laws regulating hours of work in the Municipality. The Township of Madawaska Valley prohibits “unnecessary noise” between **1:00 am and 6:00 am**. A noise by-law exemption could be obtained to allow the Contractor to work outside the allowable noise restriction windows; however, a noise by-law exemption is not considered to be warranted at this site except during bridge jacking operations.

The Contractor shall not work on statutory holidays recognized by the Municipality (i.e. holidays that the Municipal employees do not work) unless special permission is granted by the Contract Administrator, which shall not be unreasonably withheld.

No Sunday work will be permitted except in case of emergency and then only with written permission of the Contract Administrator and to such an extent as he deems necessary.

The Contractor is permitted to work on Saturdays upon approval by the Contract Administrator. If the Contractor wants to work on a Sunday or Statutory Holiday, they must request permission from the Contract Administrator. If permission is granted and work is performed, that day will be counted as a working day.

D-100-031

OVERHEAD UTILITIES

May 2014

The Contractor shall protect all traffic signal poles, utility poles, light poles and lines in accordance with the Utility company requirements. Payment for protection, temporary bracing, standby and

associated work shall be deemed to be included in the Contract Price for the Item associated with the protection requirements.

D-100-034
DESIGNATED SOURCES

 July 2005

All materials shall be from MTO Designated Sources where Designated Sources Lists are available. No exceptions shall be made.

D-100-035
QUALITY CONTROL PROGRAM

 February 2011

1. Concrete – no adjustment to concrete load on site will be allowed except as per CSA A23.1. All concrete not conforming to Specification will be immediately rejected.
2. Concrete Curing – no substitution to method specified will be considered.
3. Rebar Placement – all reinforcing placement on this Contract must be inspected by a Professional Engineer, licensed to practice in the province of Ontario, and retained by the Contractor. Certification shall be filed with Contract Administrator.
4. Structural Steel – certificate of conformance signed and sealed by a Professional Engineer, licensed to practice in the province of Ontario, and retained by the Contractor, certifying that all work has been done in accordance with the Contract Documents.
5. Bearings – certificate of conformance signed and sealed by a Professional Engineer, licensed to practice in the province of Ontario, and retained by the Contractor, certifying that the bearings have been supplied and installed in accordance with the Contract Documents.

D-100-036
AGGREGATE FOR CONCRETE

 February 2020

Aggregates for Concrete

OPSS.MUNI 1002, Material Specification for Aggregates - Concrete, is modified by the following:

Subsection 1002.04.01 Submission of Test Data is deleted and replaced by:

1002.04.01 Submission of Test Data

The Contractor shall provide test results, from a QC laboratory meeting the requirements of clause 1002.07.01.02, showing complete conformance of the aggregates with this specification.

All individual test results shall be submitted to the Contract Administrator the forms found in Appendix 1002-B or Appendix 1002-C, at the time of submission of the mix design. All test data forms must be legible. Faxed copies are acceptable provided that the original form is submitted to the Contract Administrator within seven (7) days following receipt of the fax. Test results shall be submitted by either the stockpile or control chart method.

Subsection 1002.08.03 Sampling is deleted and replaced by:

1002.08.03 Sampling

Sampling shall be according to CSA A23.2-1A and LS-625. At least one QA sample of each aggregate shall be randomly obtained for each lot of 5,000 m³ of concrete during concrete production.

QA samples shall be taken from stockpiles at the concrete plant, or in the absence of a stockpile at the plant, from stockpiles at the aggregate source that contain a minimum quantity of 500 tonnes of each aggregate for each concrete mix unless otherwise specified by the Contract Administrator. Duplicate samples shall be obtained and sealed by the Contractor in the presence of the Contract Administrator. In the event that the Contractor is unavailable to take the sample, no further materials shall be placed in the work until the QA sample has been taken.

QA samples shall be obtained by the Contractor in the presence of the Contract Administrator (or a designated representative). The Contract Administrator shall have access to all sampling locations at any time without notice. All samples shall be delivered by the Contractor to a laboratory designated by the Owner within 100 km radius of the contract limits no later than three (3) business days from the date of sampling.

The Contractor shall provide new or clean sample bags or containers that are constructed to prevent the loss of any part of the material or contamination or damage to the contents during shipment. The containers shall be sufficiently strong and shall be securely fastened. Metal or cardboard containers are unacceptable. Each container shall hold no more than 35 kg of material. The sample shall be identified both inside and outside of the sample container. Data to be included with the sample shall conform to the requirements of MTO form PH-D-10, Sample Data Sheet, as shown in Figure 2 of LS-625.

D-100-049**ADMINISTRATION OF PITS AND QUARRIES**December 2008

The Contractor shall ensure that all pits and quarries operated for extraction of aggregate, earth or rock borrow are operated in accordance with current legislation. On request the Contractor shall provide the Contract Administrator with a copy of all permits, approvals, and agreements. The cost of complying with legislative requirements shall be deemed to be included in the prices bid for the various items and no additional payment will be made.

D-100-050**QUALITY CONTROL BY CONTRACTOR**January 2024

The Contractor is responsible for all sampling, testing, reporting, and costing of quality control (QC) work. The Contractor shall supply the Contract Administrator with a report copy of all results.

The Contractor must notify the Contract Administrator 48 hours in advance of any QC sampling or testing to allow the owner to perform parallel Quality Assurance (QA) work.

All quality control testing shall be completed in a certified laboratory that is CCIL Type B and C, or AMRL accredited or equivalent. Sampling or testing shall be conducted by a technician certified to perform sampling or testing.

The Ministry of Transportation (MTO) specifications referred to in this contract have specific requirements for quality control.

The following lists the minimum required tests and frequency for submitted reports:

Physical Property Test

- One test for each aggregate material incorporated into the work, including those used for; Granular A, B, or M; hot, cold or warm mix paving; surface treatments; chip seals or concrete.
- If the aggregates are from multiple sources, a test is required from each source.

Gradation Testing

- Asphalt mixes shall have one test for each 500 tonnes placed.
- Granular A & M shall have one test for each 2,000 tonnes of production (see Note).
- Granular B shall have one test for each 5,000 tonnes of production (see Note).

Superpave Mix Properties/Marshall Testing

- Asphalt mixes shall have one test for each 500 tonnes of production.

Asphalt Cement Content

- Asphalt mixes shall have one test for each 500 tonnes of production.

Compaction Testing

- Asphalt and granulars shall be tested for each 100 lane metres of placement.
- Asphalt mixes may be tested with a nuclear density test gauge.
- Bedding and backfill shall be tested for each installation.

Concrete Testing

- One air content and slump test for each load of concrete.
- One compression strength test per Thirty Cubic metres with a minimum of one per day.

Note: A summary report shall be provided from a certified laboratory confirming that the granular materials to be incorporated into this project have met this requirement.

D-100-051

SPECIES AT RISK MITIGATION

May 2012

The contractor is advised that numerous Species at Risk (SAR) and species of concern are located throughout Renfrew County. Information on SAR and species of concern in Renfrew County is available the Ministry of Natural Resources website and by contacting the local office of the Ministry of Natural Resources.

The contractor shall be responsible to ensure that all environmental mitigation works that are installed as part of the project are inspected and properly maintained, and that the overall strategy for environmental mitigation and protection of SAR is implemented. This shall include the following:

1. Ensure that all of the Contractor's personnel and subcontractors are familiar and aware of environmental mitigation works and SAR concerns that relate to the project areas, including both plant and animal varieties of SAR.
2. Prior to commencing work on a project, conduct a general reconnaissance of the project area to confirm the presence or possible occurrence of SAR. Consult with the Contract Administrator regarding additional mitigation works or protective measures that may be required.
3. Daily, prior to commencing work, inspect all work areas including excavations and any wildlife and/or siltation control fencing that has been placed on the project to ensure that site is free of any SAR and other animals and confirm that no animals are either trapped or entangled in the fencing. The fencing shall be inspected to ensure that there are no gaps underneath that would allow room for species to enter the work areas.
4. Safely restrain or protect any injured SAR animal and report occurrence immediately to the Contract Administrator for determination of further action and reporting to MNR (Pembroke Office).

5. Inspection of the work area immediately prior to any work taking place to ensure that there are no SAR or other animals present. If such animals are present, they shall be removed to a safe area under the direction of the Contract Administrator.
6. During the late spring/early summer months, excavation piles or other stockpiles shall be reviewed on a regular basis to determine if turtles have used these areas for nesting sites. This would be noted by the presence of freshly excavated holes in the piles as well as trails leading to and from the piles. If nesting areas are found, then these need to be fenced off and the Contract Administrator will provide direction on what additional mitigation measures are required.
7. Should the Contractor observe SAR crossing the roadway or within the construction zone, they shall carefully remove the individual off the roadway in the direction that it was travelling and observe it thereafter to ensure it does not reenter the work area.
8. The Contractor's Site Supervisor shall report all SAR observations to the Contract Administrator so they can periodically inform MNR (Pembroke Office).

D-100-056
CONTRACTOR'S REPRESENTATIVE

 December 2008

The Contractor's site representative shall be a competent, English speaking Superintendent or Foreman, fully authorized to act for the Contractor and capable of coordinating the operation in an orderly and progressive manner.

The Contractor's site representative shall maintain on the construction site at all times at least one complete set of Contract Drawings and Contract Documents including copies of all referenced OPSS and OPSD documents.

The site representative shall be capable of reading and interpreting the documentation and shall ensure that all work is in conformance with same.

D-100-061
ROAD AUTHORITY/MUNICIPAL BUSINESS SIGNS

 December 2008

The Contractor shall carefully remove and satisfactorily replace all route marker, business advertising, pedestrian, and other identification signs which must be removed in order to carry out the work.

All legal traffic signs must be maintained. If they are to be moved, the local road authority must be consulted and approve.

All costs associated with the removal, protection, and relocation of signs shall be deemed to be included in the contract price for the items associated with this requirement.

D-100-066 - PWC-2025-46**ACCESS TO SANITARY FACILITIES**August 2024

The Contractor shall provide access and use of sanitary facilities and drinking water, as required per Ontario Regulation 213/91 of the Occupational Health and Safety Act, to representatives of the County and/or the Contract Administrator when on site. The Contractor shall include the Contract Administrator in the number of “workers” regularly employed on the site for the purposes of establishing the number of facilities required.

The Contractor shall maintain sanitary facilities in a clean manner, to a standard that is acceptable to the Contract Administrator, for the duration of the project. The cost of maintaining these facilities shall be the responsibility of the Contractor.

Should the Contractor repeatedly be unable to maintain the sanitary facility in a clean manner, the County may require that a separate sanitary facility be provided, for sole use of the Contract Administrator, at no additional cost to the County.

SECTION E
STANDARD SPECIFICATIONS
AND DRAWINGS

SS-1 Standard Drawings

- 1.1 The Contractor acknowledges that certain standard drawings that are provisions of this Contract have not been reproduced for inclusion in the Contract Documents. These standard drawings are listed in the Tender.
- 1.2 The Contractor acknowledges that the standard drawings referred to in Subsection SS-1.1 are Ontario Provincial Standard Drawings (OPSD) as produced and amended by the government of the Province of Ontario.

OPSD	DATE	OPSD	DATE
OPSD 911.160	Nov 2013		
OPSD 3370.100	Nov 2008		
OPSD 3370.101	Nov 2008		
OPSD 3419.100	Apr 2022		
OPSD 4019.000	Sep 1996		

SS-2 Standard Specification

- 2.1 The Contractor acknowledges that certain standard specifications that are provisions of this Contract have not been reproduced for inclusion in the Contract Documents. These standard specifications are listed in Subsection SS-2.3, and in the Schedule of Prices.
- 2.2 The Contractor acknowledges that the standard specifications referred to in subsection SS-2.1 and SS-2.3 are Ontario Provincial Standard Specifications (OPSS) and all specifications referred to therein, as produced and amended by the government of the Province of Ontario.
- 2.3 The OPSS standard specifications that are provisions of this Contract are:

OPSS	LATEST VERSION	OPSS	LATEST VERSION
OPSS.MUNI 182	Apr 2021	OPSS.MUNI 902	Nov 2021
OPSS.PROV 308	Jul 2023	OPSS.MUNI 904	Nov 2023
OPSS.MUNI 310	Nov 2017	OPSS.MUNI 905	Nov 2017
OPSS.MUNI 510	Nov 2018	OPSS.MUNI 906	Nov 2021
OPSS.MUNI 511	Nov 2019	OPSS.MUNI 908	Nov 2022
OPSS.MUNI 539	Nov 2021	OPSS.MUNI 911	Nov 2022
OPSS.MUNI 706	Apr 2018	OPSS.MUNI 914	Nov 2014
OPSS.MUNI 710	Nov 2021	OPSS.MUNI 920	Nov 2023
OPSS.MUNI 723	Nov 2021	OPSS.MUNI 922	Apr 2017
OPSS.MUNI 741	Nov 2021	OPSS.MUNI 928	Apr 2019
OPSS.MUNI 802	Nov 2019	OPSS.MUNI 929	Nov 2018
OPSS.MUNI 804	Nov 2014	OPSS.MUNI 930	Nov 2014
OPSS.MUNI 805	Nov 2021		

2.4 The Contractor acknowledges that the standard specifications referred to in subsections SS-2.1 and SS-2.3 are Ontario Provincial Standard Specifications (OPSS) for construction only and that all material specifications referred to therein, as produced and amended by the government of the Province of Ontario are also applicable to the Contract. The Contractor shall be responsible for obtaining its own copy of the Ontario Provincial Standard Specifications (OPSS) which are applicable to this Contract.

SS-3 Availability of Standards

3.1 It shall be the responsibility of the Contractor to obtain any Ontario Provincial Standard Specifications (OPSS), Ontario Provincial Standard Drawings (OPSD), or Ontario Provincial Standard General Conditions of Contract (OPSS-MUNI 100), referred to in the quotation form. The Ontario Provincial Standards can be found on the internet at <https://www.library.mto.gov.on.ca/SydneyPLUS/TechPubs/Portal/tp/opsViews.aspx>

SS-4 Drawings

4.1 The following is list of drawings that are included as part of the contract:

12 Drawings numbered 45D2501 to 45D2512

SECTION F
SPECIAL PROVISIONS

INDEX FOR SECTION 'F' – SPECIAL PROVISIONS

F-100C-001	Field Office for Contract Administrator	F-1
F-100C-003	PWC-2025-46 Sitework.....	F-2
F-308C-001	PWC-2025-46 Tack Coat	F-5
F-310C-010	HL-3 Hot Mix Asphalt Surface Course.....	F-5
F-510C-006	PWC-2025-46 Remove Asphalt Pavement – Partial Depth	F-7
F-510C-042	PWC-2025-46 Removal of Asphalt Pavement from Concrete Surfaces	F-8
F-510C-043	PWC-2025-46 Saw Cutting of Asphalt.....	F-8
F-511C-003	PWC-2025-46 800mm Thick Rock Protection at Corners of Structure Including Geotextile.....	F-9
F-706C-001	PWC-2025-46 Traffic Control Including All Signage.....	F-10
F-710C-003	Pavement Markings Reinstatement	F-10
F-723C-001	PWC-2025-46 Energy Attenuator - Temporary, Narrow	F-11
F-741C-001	PWC-2025-46 Temporary Concrete Barrier.....	F-12
F-804C-001	PWC-2025-46 Site Restoration (Inc. topsoil & fiber reinforced matrix).....	F-12
F-805C-002	PWC-2025-46 Supply, install and removal of bird netting	F-12
F-805C-003	PWC-2025-46 Environmental Protection	F-13
F-902C-001	PWC-2025-46 Granular 'B' Type II Backfill/Roadway Subbase	F-18
F-904C-001	PWC-2025-46 Concrete in Substructure.....	F-19
F-904C-002	PWC-2025-46 Dowels in Concrete.....	F-19
F-905C-001	PWC-2025-46 Reinforcing Steel Bars.....	F-20
F-905C-003	PWC-2025-46 Threaded Anchor Rods	F-21
F-905C-004	PWC-2025-46 25x25mm Stainless Steel Wire Mesh	F-23
F-906C-001	PWC-2025-46 Structural Steel in Corble, Exterior Jacking Supports	F-24
F-908C-001	PWC-2025-46 Barrier Wall Railing, Mounting Brackets & Hardware	F-27
F-911C-001	PWC-2025-46 Coating of New Structural Steel	F-28

F-914C-001	PWC-2025-46 Bridge Deck Waterproofing.....	F-29
F-920C-001	PWC-2025-46 Expansion Joint Seal.....	F-30
F-922C-001	PWC-2025-46 Bridge Jacking for Bearing Replacement.....	F-31
F-922C-002	PWC-2025-46 Bearings	F-34
F-928C-001	PWC-2025-46 Concrete Removal - Partial Depth Type A.....	F-35
F-929C-001	PWC-2025-46 Abrasive Blast Cleaning of Reinforcing Steel.....	F-35
F-930C-001	PWC-2025-46 Concrete Patches, Unformed Surface	F-36
F-999C-001	PWC-2025-46 Concrete Sealing	F-36
F-999C-002	PWC-2025-46 Elastomeric Concrete.....	F-37

F-100C-001
FIELD OFFICE FOR CONTRACT ADMINISTRATOR
FLOOR AREA 20 – 34m2 INCLUDING TELEPHONE & INTERNET

 January 2014

Scope

Under this tender time, the Contractor shall supply and maintain a field office and its associated items for the sole use of the Contract Administrator or their representatives.

Location

Prior to the commencement of work on this Tender Item, the Contractor shall receive approval from the Contract Administrator for the location of the field office.

Field Office Dimensions and Condition

All doors shall be solid and capable of being locked with a 25 mm throw dead bolt lock.

The inside of the field office shall be moisture tight and capable of being lit to a level that is satisfactory to the Contract Administrator. It shall have adequate windows, heating and ventilating equipment capable of maintaining the working area at 21°C during both summer and winter weather conditions.

Field Office Equipment

The Contractor shall supply for the sole use of the Contract Administrator the following furnishings for the appropriate trailer size:

Floor Area 20-34 m²

1 desk
 1 drafting tables (2 m² ea)
 1 lockable filing cabinet (3 drawer)
 2 stools
 2 chairs
 1 electric adding machine

Floor Area 35-70 m²

2 desks
 2 drafting tables (2 m² ea)
 1 lockable filing cabinet (4 drawer)
 3 stools
 4 chairs
 1 electric adding machine

The Contractor shall supply or arrange to supply a water cooler capable of maintaining a water supply at 7°C. Water shall be potable and supplied at a rate of 18 L/week.

Utilities and Sanitary Facilities

The field office is to be equipped with a minimum of 3-120 volt duplex receptacles, in working order.

The Contractor shall supply internet connection for the sole use of the Contract Administrator.

It is the responsibility of the Contractor to provide and maintain adequate facilities in accordance with the current requirements of the Occupational Health and Safety Act (Part II General Construction O.Reg 145/00, s.15, 527/00, S.1) for the exclusive use by Corporation staff and its Consultants.

Measurement for Payment

Measurement for the supply of a field office, its utilities, services and associated equipment shall be by the week. The Contractor shall also be paid for any portion of a week as one week. Measurement for payment will be made commencing from the time when all utilities and services have been provided.

Basis of Payment

Payment at the Contract Price for the Tender Item “Field Office for Contract Administrator” shall be full compensation for all labour, equipment and materials required to supply and maintain a field office.

The Contractor shall bear all expenses in connection with the above facilities, including but not limited to:

- a) Service and connection charges for utilities and services.
- b) Heating and ventilating costs.
- c) Supply & maintenance of sanitary facilities.
- d) The supply of bottled water.
- e) All land and rental costs for the field office.
- f) Supply of steps or stairs so as to provide proper access to field office.
- g) The provision of at least five (5) parking spaces adjacent to field office, with at least a gravel surface.
- h) Winter maintenance (snow removal, sanding).

Scope of Work

Payment at the Contract Lump Sum Price for the Item “Sitework” shall be full compensation for all labour, materials, and equipment required to complete the work as outlined herein.

The following work, activities, and cost shall be included under this Item unless specified elsewhere in the Contract Documents:

- Bonds, administration, and supervisory costs.
- Mobilization and demobilization of equipment, material, and Contractor's forces.
- Schedules.
- Site preparation for work.
- Costs of all necessary approvals and permits as applicable.
- Cost of constructing lay down area in location acceptable to Owner.
- All costs associated with locates, protection or temporary relocation and reinstallation of utilities, as applicable and not specified in other areas of the Contract.
- Installation and removal of temporary barricades, hoarding, snow fencing, and other protection required.
- Layout of Work.
- Contractor's office.
- Cost of supplying and maintaining adequate sanitary facilities.
- Costs associated with the submission of shop drawings, rebar schedules, product submissions, etc.
- Costs associated with access to private properties as required and obtaining written release from the affected property owners. Copy to be submitted to Contract Administrator.
- Cost of maintaining and reinstating existing road signs, mailboxes, etc.
- Cost of advertising Substantial Completion in the Daily Commercial News.
- Cost of reinstating the Contractor's lay down area and office sites to their original conditions.
- All costs of any incidental work not specifically mentioned in the Contract Documents but required by virtue of the work.
- All costs associated with environmental protection or species at risk mitigation measures except as specifically mentioned for other Items of work.
- The County of Renfrew will undertake normal winter maintenance within the Contract area. The Contractor will be required to undertake any additional winter sanding, salting, and snow removal to allow passage of Contractor's own vehicles, affected residents, Hydro, and business operators within stretch of roadway on which the construction zone is located, either between Contract Limits during staged construction or between points of road closure for the detour option. Contractor to fully, solely, and unequivocally establish the amount of effort and costs required. Winter Sanding, salting, and snow removal will be fully executed by Contractor at all times, including also times when the site is temporarily abandoned during winter, should occurrences as such happen. Snow removals to be carried out to minimum standard of cleanliness and responsiveness as attained by County of Renfrew maintenance snow removal crews.
- Quality Control testing and reporting.
- Submission of required reports, releases, and documentation for the release of holdback.
- The dust control by watering.
- Careful removal and reinstallation of mail boxes, municipal address/number markings, Highway Signs and commercial and information signs within limits of roadway reconstruction. This work needs to be coordinated with Contractor's own traffic

management plan. Following completion of work all existing signs need to be reinstalled in new locations as necessary for compliance with Ontario Traffic Manual (OTM) and Traffic Highway Act.

- Protection of private properties and fences. All fences to remain and are not to be disturbed. All fences disturbed to be repaired to match original by Contractor at own cost.
- All work is to be carried within right of way without encroachment onto private properties.
- Advise Contract Administrator, where construction of work is to interfere with private property and seek direction prior to the work being undertaken.
- Access to work area, work platform, and scaffolding including access for Contract Administrator's inspection (where not otherwise specified)
- Clearing and grubbing in accordance with OPSS.MUNI 902. All grubbing and/or clearing debris shall be disposed of off-site.
- Negative pressure work enclosures are required for all abrasive blast cleaning and paint coating operations.
- Remove and replace damaged portion of steel beam guiderail as directed by Contract Administrator.
- If planter boxes are in place prior to construction commencing, existing planter boxes shall be removed and salvaged by the Contractor at the start of construction. Once all construction is complete, the Contractor shall reinstate the planter boxes with new potting soil and new flowers matching the species and quantity of the existing.
- Prior to placing granular B-II and rip-rap, a qualified biologist shall sweep the area impacted by the works for turtles. If turtles are present, the work shall be rescheduled, and the area re-screened by a qualified biologist.
- All removals are to be disposed of off-site.

The Contractor shall submit an up-to-date detailed Work Schedule to the Contract Administrator at the Pre-Construction Meeting.

The Detailed Work Schedule shall be in a bar chart form at indicating the following items against a weekly time scale:

- Dates and time periods of all major construction activities.
- Dates of critical activities (long delivery items, traffic shifts, protection measures, etc.).
- Dates of important milestones.

The Contractor is advised that no additional payment will be made for repeated mobilization and demobilization for any of the construction activities covered by this Contract, interrupted by weather, or by any other construction activity within this Contract.

Basis of Payment

Payment for this Item shall be full compensation for all labour, materials and equipment required to carry out the work. A 20% portion shall be paid in the first progress payment of each construction season. Remainder will be prorated over the scheduled duration of the Contract per the approved schedule.

Contractor shall bear all immediate, subsequent and consequential costs associated with change in the schedule, staging, and methodology of the work, unless Contract Administrator requested such change.

F-308C-001 - PWC-2025-46

TACK COAT
August 2024

Amendments to OPSS.PROV 308

OPSS.PROV 308 shall apply except as may be amended and extended herein.

308.09.01 Actual Measurement

Subsection 308.09.01 of OPSS 308 is deleted in its entirety and replaced by the following:

Measurement for payment shall be in square metres (m²) of tack coat satisfactorily placed. Tack coat placed at construction joints will not be measured for payment.

308.10.01 Tack Coat – Item

Subsection 308.10.01 of OPSS 308 is deleted in its entirety and replaced by the following:

Payment shall be made at the unit price and shall be full compensation for all labour, equipment and materials necessary to complete this work as specified, regardless of the surface type coated.

F-310C-010

HL3 HOT MIX ASPHALT SURFACE COURSE
February 2018

Amendments to OPSS.MUNI 310

OPSS.MUNI 310 shall apply except as may be amended and extended herein.

310.01 SCOPE

Work under “HL3 Hot Mix Asphalt Surface Course” shall include the supply, placement, and compaction of hot mix asphalt as specified in the Contract Documents.

310.04 SUBMISSION AND DESIGN REQUIREMENTS

Subsection 310.04 is amended by the addition of the following:

310.04.01 Submissions

The successful Tenderer will submit a mix design and aggregate test results at the award of the Tender. The mix design must have been produced in the previous twelve (12) months prior to submission. The mix design must conform to the requirements as listed in OPSS 1150. The physical property test results of the aggregates must meet the requirements as listed in OPSS.MUNI 1003.

The Contractor will submit a copy of the Contractor's Quality Control Plan to the Contract Administrator for review a minimum of two weeks prior to paving. The Quality Control Plan must include such quality control procedures, including sampling and testing, as is necessary to ensure that all hot mix aggregates and all hot mix asphalt to be used in the work conform to the requirements of the Contract. The Contractor shall determine the type and amount of quality control sampling and testing to be completed so as to ensure the contract requirements are met.

The Contractor shall be responsible for the interpretation of the test results and the determination of any action to be taken to ensure that all materials and work conform to the requirements of the Contract.

The Quality Control Plan will identify the names and responsibilities of the Contractor's representatives and will identify the certified laboratory that will be responsible for the quality control testing.

310.04.02 Quality Control Plan

The Quality Control Plan will address the following:

1. Quality control and quality assurance material sampling, preparation, handling, delivery, and storage;
2. Quality control testing and the timing for the testing; and
3. Timing for the submission of results for all quality control testing.

The Contractor shall through the Quality Control Plan ensure:

1. Each of the following complies with and is supplied in accordance with the Contract Documents:
 - (a) materials from approved/designated sources;
 - (b) the mix design submission, including all supporting documentation;
 - (c) materials from sources identified in the accepted mix design submission; and
 - (d) submission of certification for all materials that require certification.
2. Each of the following is performed in accordance with the Contract Documents:
 - (a) the mix design;
 - (b) materials testing and/or inspection prior to incorporation into the work, and checking that materials meet the accepted mix designs;

- (c) materials handling and/or storage; and
- (d) addition and/or mixing of materials identified in the accepted mix design.

3. That no materials are used that are identified as deficient prior to incorporation into the work. The Contractor shall ensure that no materials are used that would have been identified as deficient prior to incorporation into the work if quality control test results had been available when specified.

310.04.03 Assessment of Compliance

The Contract Administrator’s assessment of compliance may consist of random or milestone inspections, continuous inspection, sampling, and testing for quality assurance purposes, audits of the quality control documentation specified in the Contract Documents or any combination of the preceding actions at the discretion of the County.

310.04.04 Payment

Quality Control Activities

Full compensation for carrying out quality control activities and for meeting the requirements of this Special Provision shall be included in the Contract Price for each of the appropriate Tender Items.

F-510C-006 - PWC-2025-46	REMOVE ASPHALT PAVEMENT
	September 2024

Amendments to OPSS.MUNI 510

OPSS.MUNI 510 shall apply except as may be amended and extended herein.

510.01 SCOPE

Section 510.01 of OPSS 510 is amended by the addition of the following:

Work under the tender item “Removal of Asphalt Pavement – Full Depth” shall include the full depth removal of asphalt pavement along the multi-use pathway (MUP) approaches to the limits detailed in the Contract Documents.

Work under the tender item “Removal of Asphalt Pavement – Partial Depth” shall include the partial depth removal of asphalt pavement along Combermere Rd (County Rd 62) to the limits detailed in the Contract Documents.

510.07 CONSTRUCTION

510.07.06.04 Removal of Asphalt Pavement Partial Depth

Clause 510.07.06.04 is amended by the addition of the following:

The asphalt pavement shall be removed to the depths shown in the Contract Documents. The maximum depth of removal in any specific location will be determined at the time of construction.

**F-510C-042 - PWC-2025-46 REMOVAL OF ASPHALT PAVEMENT FROM CONCRETE SURFACES
ON STRUCTURES**
August 2024

Amendments to OPSS.MUNI 510

OPSS.MUNI 510 shall apply except as may be amended and extended herein.

510.01 SCOPE

Section 510.01 is amended by the addition of the following:

Work under the tender item “Removal of Asphalt Pavement from Concrete Surfaces on Structures” shall include full depth asphalt removal from the bridge deck and approach slabs, including waterproofing. Partial depth removal for asphalt keys at the ends of the work area shall also be included under this tender item.

F-510C-043 - PWC-2025-46 **SAW CUTTING OF ASPHALT**
August 2024

Amendments to OPSS.MUNI 510

OPSS.MUNI 510 shall apply except as may be amended and extended herein.

510.01 SCOPE

Section 510.01 of OPSS 510 is amended by the addition of the following:

Work under the tender item ‘Saw Cutting of Asphalt’ shall include the transverse saw cutting of the existing asphalt at the limits of removals as identified in the Contract Documents. This item shall also include longitudinal asphalt saw cutting require for staged works.

510.09 MEASUREMENT FOR PAYMENT

510.09.01 Actual Measurement

Subsection 510.09.01.16 of OPSS 510 shall be deleted in its entirety and replaced by the following:

510.09.01.16 Saw Cutting of Asphalt

No measure for payment shall be made as item shall be by lump sum.

F-511C-003 - PWC-2025-46 800mm THICK ROCK PROTECTION AT CORNERS OF STRUCTURE INCLUDING GEOTEXTILE
September 2024

Amendments to OPSS 511.MUNI

OPSS 511 shall apply except as may be amended and extended herein.

511.01 SCOPE

Section 511.01 is amended with the addition of the following:

The work under tender item “800mm Thick Rock Protection at Corners of Structure including Geotextile” shall include, but is not limited to, the supply and placement of rock protection laid 800 mm thick on a non-woven class II geotextile to the extents shown in the Contract Documents.

511.09 MEASUREMENT FOR PAYMENT

Section 511.09 is deleted in its entirety and replaced with the following:

511.09.01 Actual Measurement

Measurement for the tender item “800mm Thick Rock Protection at Corners of Structure including Geotextile” shall be by area in square metres (m²).

511.10 BASIS OF PAYMENT

Subsection 511.10.01 is amended by the addition of the following to the list of items:

800mm Thick Rock Protection at Corners of Structure including Geotextile - Item

Where geotextile is placed under the rock protection, payment for the geotextile will be included in the “800mm Thick Rock Protection at Corners of Structure including Geotextile” Item.

F-706C-001 - PWC-2025-46
TRAFFIC CONTROL INCLUDING ALL SIGNAGE

 August 2024

Amendments to OPSS.MUNI 706

OPSS.MUNI 706 shall apply except as may be amended and extended herein.

706.01 SCOPE

Section 706.01 of OPSS 706 shall be amended by the addition of the following:

Work under tender item ‘Traffic Control Including All Signage’ shall include the supply, install, and management of temporary traffic control signage, traffic detour signage, and temporary construction fencing specified in the Contract Documents and in accordance with OTM Book 7. County Rd 62 is not permitted to be fully closed for traffic except for a short duration overnight full road closure during bridge jacking. Signage shall include, but not be limited to, TC-67 signs, TC-64 signs, and temporary traffic signals. Removal of traffic signage and temporary construction fencing is included within this item.

706.09 MEASUREMENT OF PAYMENT

Section 706.09 of OPSS 706 is amended by the addition of the following:

706.09.01.06 Traffic Control Including All Signage

Measurement for payment under the item “Traffic Control Including All Signage” shall be by lump sum (LS).

706.10 BASIS OF PAYMENT

Subsection 706.10.01 of OPSS 706 is amended by the addition of the following item:

706.10.01 Traffic Control Including All Signage

F-710C-003
PAVEMENT MARKINGS REINSTATEMENT

 March 2014

Amendments to OPSS 710

OPSS 710 shall apply except as may be amended and extended herein.

710.07 CONSTRUCTION
710.07.01 General

Subsection 710.07.01 is amended by the addition of the following:

All existing pavement markings are to be reinstated. The Contractor shall document the location and nature of all existing pavement markings. Existing pavement markings include traffic lane markings and deck drain location markings.

710.09 MEASUREMENT FOR PAYMENT

Section 710.09.01 is deleted in its entirety and replaced with the following:

710.09.01 Pavement Marking Reinstatement

Measurement for payment will be by Lump Sum.

710.10 BASIS OF PAYMENT

Subsection 710.10.01 is amended with the addition of the following:

Pavement Marking Reinstatement – Item

F-723C-001 - PWC-2025-46

ENERGY ATTENUATOR

August 2024

Amendments to OPSS.MUNI 723

OPSS.MUNI 723 shall apply except as may be amended and extended herein.

723.01 SCOPE

Section 723.01 is amended by the addition of the following:

Work under the item ‘Energy Attenuator – Relocation, Narrow’ shall include relocating the Temporary Energy Attenuator between the Stage 1 and Stage 2 traffic configurations as shown on the Contract Drawings.

723.07.01 General

Subsection 723.07.01 is amended by the addition of the following:

Energy attenuator systems shall be TL-2 configuration.

F-741C-001 - PWC-2025-46
TEMPORARY CONCRETE BARRIER

 August 2024

Amendments to OPSS.MUNI 741

OPSS.MUNI 741 shall apply except as may be amended and extended herein.

741.01 SCOPE

Section 741.01 is amended by the addition of the following:

Work under the tender item ‘Temporary Concrete Barrier’ shall include the supply, installation, relocation and removal of temporary concrete barriers according to the Construction Drawings. Work under the tender item ‘Temporary Concrete Barrier, Relocation’ shall include the relocation of temporary concrete barriers.

F-804C-001 - PWC-2025-46
**SITE RESTORATION (INCLUDING TOPSOIL AND FIBER
REINFORCED MATRIX)**

 August 2024

Amendments to OPSS.MUNI 802 AND OPSS.MUNI 804

OPSS.MUNI 802 and OPSS.MUNI 804 shall apply except as may be amended and extended herein.

SCOPE

Work under the tender item “Site Restoration (Including Topsoil and Fiber Reinforced Matrix)” shall include landscaping work to restore all areas affected by construction activities to pre-construction conditions. Topsoil shall be supplied and installed in accordance with OPSS.MUNI 802. Seed and cover shall be supplied and installed in accordance with OPSS.MUNI 804.

BASIS OF PAYMENT

Payment under this item shall be by lump sum (LS) and shall be full compensation for all labour, Equipment, and Material to do the work.

F-805C-002 - PWC-2025-46
SUPPLY, INSTALL, AND REMOVAL OF BIRD NETTING

 August 2024

SCOPE

Birds’ nests are present on the bridge. Work under the tender item “Supply, Install, and Removal of Bird Netting” shall include the supply and install of bird netting prior to construction, and removal and disposal off site by the Contractor as works progress into new areas where bird

netting is installed. Patching of concrete after removal of bird netting and fasteners shall be included under this tender item.

Bird netting and bird netting installation shall meet the following requirements:

- Cover all structural steel below the deck level, including the top of pier and abutments.
- Mesh size shall be ½ " or smaller.
- Joints between segments of bird netting shall be secured together to prevent gaps greater than mesh size specified.
- Bird netting shall not be fastened to steel components of the bridge using destructive means (e.g., drilled/bolted fasteners).
- Bird netting shall not hang below the bridge by more than 300mm at any location or conflict with the navigation envelope.
- Bird netting shall be securely fastened to deck soffit to prevent gaps using mechanical means (e.g., concrete anchors/fasteners).
- As work progresses, bird netting shall be adjusted to prevent bird access to the bridge.
- The bird netting and all components used to fasten/secure the bird netting shall be removed and disposed of by the Contractor. Holes in concrete shall be patched.
- Should any holes appear in the bird netting, they shall be repaired immediately by the Contractor at no additional cost to the Owner.
- If a bird enters the netted area, the Contractor shall temporarily remove a portion of netting to permit the bird to exit, and reinstate netting once the bird has left.

BASIS OF PAYMENT

Payment under this item shall be by lump sum (LS) and shall be full compensation for all labour, Equipment, and Material to do the work. 50% of the lump sum amount shall be paid following acceptable installation of the bird netting, and the remaining lump sum amount shall be paid following removal.

F-805C-003 - PWC-2025-46

**ENVIRONMENTAL PROTECTION/EROSION AND SEDIMENT
CONTROL INCLUDING SPECIES AT RISK MANAGEMENT**

February 2022

Amendments to OPSS.MUNI 182, OPSS.MUNI 518, and OPSS 805.

OPSS.MUNI 182, OPSS.MUNI 518, and OPSS 805 shall apply except as extended herein:

SCOPE OF WORK

Erosion and Sediment Control Plan and Monitoring

The Contractor shall also design, implement, maintain, and remove all erosion and sediment control measures and carry out the removal of sediment accumulated by control measure to approval and satisfaction of the Regulatory Authorities and Contract Administrator.

Environmental Protection

The Contractor will design, erect, maintain, and remove any protection schemes necessary to prevent all debris and construction materials from entering the waterway during the execution of this contract to the approval and satisfaction of Regulatory Authorities and Contract Administrator.

SUBMISSIONS

The Contractor shall submit to the Contract Administrator a copy of all protection schemes a minimum of 14 calendar days prior to proceeding with the work. The submission shall be comprehensive and shall provide descriptions, working drawings, and schedules that detail the sequence of this work and the temporary protection systems.

The Contractor may be required to obtain further permit(s) from the Authorities for the proposed schemes. Copy of permit(s) to be submitted to the Contract Administrator.

COMPLIANCE WITH REGULATIONS

The Contractor shall design and carry work in such a way to provide unimpeded navigability of the waterway. The Contractor is fully and solely responsible for compliance with Transport Canada as related to navigability, and the Federal Department of Fisheries and Oceans, and Ministry of Natural Resources as related to protection of fish habitat. Contractor is fully and solely responsible for compliance with all Federal, Provincial, and Municipal Acts and regulations as related to environmental protection.

Additional requirements of the Federal Department of Fisheries and Oceans where applicable, are appended to the tender document.

Anticipated Water Flows and Local Conditions

The Contractor must satisfy himself with the local conditions and anticipated water flows, levels, and flow velocity to be met with during construction. He shall make his own estimate of the facilities required and difficulties to be encountered, including the nature of subsurface materials and conditions.

Peak Flows

The Contractor shall make his own estimate of the anticipated water flows during construction and construct the work so that flow is not restricted.

Navigability Requirements

Approval under Section 10(2) of the Navigable Waters Protection Act is anticipated prior to the

commencement of construction. For bidding purposes, the Contractor shall assume that the navigability requirements include, but are not necessarily limited to the following:

1. Any formwork, shoring, protection platforms, etc. that extend below the level of the proposed soffit of the bridge shall be marked with yellow or orange reflective warning sign boards and/or yellow flashing lights at all times.
2. No temporary cables or ropes are to be strung between the abutments unless approved prior to installation by Transport Canada (Navigable Waters Protection program).
3. In accordance with Section 5 of the Navigable Waters Works Regulations, "No person shall permit any tools, equipment, vehicles, temporary structures, or part thereof used or maintained for the purpose of building or placing a work in a navigable water to remain in such water after the completion of the project."
4. In accordance with Section 5 of the Navigable Waters Works Regulations, "Where a work or a portion of a work that is being constructed or maintained in a navigable water causes debris or other material to accumulate on the bed or on the surface of such water, the Owner of that work or portion of that work shall cause the debris or other material to be removed to the satisfaction of the Minister."

Erosion and Sediment Control Plan and Monitoring

The Contractor acknowledges that surface erosion and sediment runoff resulting from his construction operations will have a detrimental impact to any downstream watercourse or sewer, and that all construction operations that may impact upon water quality shall be carried out in a manner that strictly meets the requirements of all applicable legislation and regulations.

As such, the Contractor shall be responsible for carrying out his operations, and supplying and installing any appropriate control measures, so as to prevent sediment laden runoff from entering any sewer or watercourse within or downstream of the Working Area.

The Contractor acknowledges that no one measure is likely to be 100% effective for erosion protection and controlling sediment runoff. Therefore, where necessary the Contractor shall implement sequential measures arranged so as to achieve the required level of sediment and runoff control. Suggested on-site measures may include, but shall not be limited to, the following methods: sediment ponds, silt fences, straw bales, filter cloths, catch basin filters, dams and/or berms, or other recognized technologies and methods available at the time of construction. Specific measures shall be installed in accordance with the requirements of OPSS.MUNI 182 and OPSS 577 where appropriate, or in accordance with manufacturer's recommendations.

Where, in the opinion of the Contract Administrator or Regulatory Agency, the installed control measures fail to perform adequately, the Contractor shall supply and install additional or alternative measures as directed by the Contract Administrator or Regulatory Agency. As such, the Contractor shall have additional control materials on site at all times which are easily

accessible and may be implemented by him at a moment's notice.

Before commencing the Work, the Contractor shall submit to the Contract Administrator six copies of a detailed Erosion and Sediment Control (ESC) Plan. The ESC Plan will consist of a written description and detailed drawings indicating the on-site activities and measures to be used to control erosion and sediment movement for each step of the Work. Where applicable the written description shall be signed by, and the drawings shall bear the stamp and signature of a qualified Professional Engineer licensed in Ontario.

CONSTRUCTION

Erosion and Sediment Control Plan and Monitoring

The Contractor shall ensure that all workers, including sub-contractors, in the Working Area are aware of the importance of the erosion and sediment control measures and informed of the consequences of the failure to comply with the requirements of all Regulatory Agencies and the specifications detailed herein.

The Contractor shall periodically, and when requested by the Contract Administrator, clean out accumulated sediment deposits as required at the sediment control devices, including those deposits that may originate from outside the construction area. Accumulated sediment shall be removed in such a manner that prevents the deposition of this material into any sewer or watercourse and avoids damage to the control measure. The sediment shall be removed from the site at the Contractor's expense and managed in compliance with the requirements for excess earth material, as specified elsewhere in the Contract.

The Contractor shall immediately report to the Contract Administrator any accidental discharges of sediment material into either the watercourse or the storm sewer system. Failure to report will be constitute a breach of this specification and the Contractor may also be subject to the penalties imposed by any applicable Regulatory Agency. Appropriate response measures, including any repairs to existing control measures or the implementation of additional control measures, shall be carried out by the Contractor without delay.

The sediment control measures shall only be removed when, in the opinion of the Contract Administrator, the measure or measures, is no longer required. No control measure may be permanently removed without prior authorization from the Contract Administrator. All sediment and erosion control measures shall be removed in a manner that avoids the entry of any equipment, other than hand-held equipment, into any watercourse, and prevents the release of any sediment or debris into any sewer or watercourse within or downstream of the Working Area. All accumulated sediment shall be removed from the Working Area at the Contractor's expense and managed in compliance with the requirements for excess earth material, as specified elsewhere in the Contract.

Where, in the opinion of either the Contract Administrator or a Regulatory Agency, any of the terms specified herein have not been complied with or performed in a suitable manner, or at all,

the Contract Administrator or Regulatory Agency has the right to immediately withdraw its permission to continue the work but may renew its permission upon being satisfied that the defaults or deficiencies in the performance of this specification by the Contractor have been remedied. No compensation will be owed or paid to the Contractor for the withdrawal of permission to do the work resulting from noncompliance with the requirements of this specification or the Regulatory Agencies.

In addition to any other remedy and/or penalty provided by law, where there has been default or noncompliance with any of the terms specified herein and the Contractor refuses to perform or rectify same within forty-eight (48) hours of the receipt of the written demand of the Contract Administrator to do so, the Owner is hereby entitled to enter upon the Working Area and either complete the work in conformity with the Contract or have the work done that it considers necessary to complete the Work to its intended condition, whichever, in the Owner's sole opinion, is the most reasonable course of action. The Contractor and the Owner further agree that the costs incurred for any such work shall be retained by the Owner from monies otherwise due to the Contractor, should any such monies be available.

Environmental protection

The Contractor shall design, erect, maintain, and remove a system to prevent all debris and construction material from entering the waterway.

The Contractor shall adhere to the following requirements:

1. Use erosion-resistant material, such as gravel fill with rip-rap or geotextile lining, in order to prevent the entry of sediment into the watercourse.
2. Construction affecting water must not take place during spawning/incubation periods or major fish migration periods, as determined by the Ministry of Natural Resources. Prevent any silt from excavation and backfill from entering the waterway.
3. The material used for earth cofferdams when used and approved should be clean granular without a significant content of silt or clay.
4. Cofferdam when used and approved should be removed as carefully as possible to minimize sedimentation.
5. Equipment and materials should be stored well back from the water's edge.
6. Do not clean concrete buckets, wheelbarrows, or shovels in water body. Instead wash them with hoses so that run-off is filtered through vegetation. Prevent the entry of lime, cement, or fresh concrete into waterways.
7. The Contractor shall ensure that no contamination, waste, debris, construction materials, or other substances which may be detrimental to marine life or quality of water shall enter the

watercourse as either a direct or indirect result of construction and the Contractor shall meet all requirements of Government authorities and applicable agencies with respect to environmental protection.

8. The Contractor shall immediately clean up any spills or contamination, waste, debris, construction materials, or other substances which may be either detrimental to marine life or water quality. In the event of a spill, the Contractor shall immediately commence a clean-up operation. The Contractor shall be liable for all damages and/or charges laid which result, either directly or indirectly, from the spill, or contamination of any kind, which result from its construction operations.
9. Filters (screens) shall be provided at the water intake of all pumps to prevent the entry of, or damage to, fish and the discharge of the water shall be directed in a manner that will prevent erosion of the watercourse bed and watercourse banks.
10. The Contractor shall release any stranded fish to the open portion of the watercourse without harm.

BASIS OF PAYMENT

Payment at the Contract lump sum price for the Item “Environmental Protection-ESC Plan” including erosion control shall be full compensation for all labour, materials, and equipment required to complete the work.

Whenever protection measures are found to be inadequate by Authority or Contract Administrator, changes shall immediately be made, which will ensure watercourse, embankment, stream bed, at no extra cost to the Owner.

Payment for these Lump Sum Items will be as follows:

Installation of System	30%
Removal of System	15%

The remainder (55%) shall be prorated over the scheduled duration of the Contract per the approved schedule.

Contractor shall bear all immediate, subsequent, and consequential costs associated with change in the schedule, staging, and methodology of the work.

F-902C-001 - PWC-2025-46	GRANULAR ‘B’ TYPE II BACKFILL
	August 2024

Amendments to OPSS.MUNI 902

OPSS.MUNI 902 shall apply except as may be amended and extended herein.

902.01 SCOPE

Section 902.01 of OPSS 902 is amended by the addition of the following:

Work under the tender item ‘Granular ‘B’ Type II Backfill’ shall include the supply, installation, and compaction of Granular ‘B’ Type II backfill for eroded embankments, and to fill void beneath the approach slab and slope paving as directed by Contract Administrator.

902.09 MEASUREMENT FOR PAYMENT

Section 902.09 of OPSS 902 is amended by the addition of the following to the list of items under clause 902.09.01.02:

Granular ‘B’ Type II Backfill

Measurement for the above payment item shall be by mass in tonnes (t).

902.10 BASIS OF PAYMENT

Section 902.10 of OPSS 902 is amended by the addition of the following to the list of items under clause 902.10.03:

Granular ‘B’ Type II Backfill - Item

F-904C-001 - PWC-2025-46	CONCRETE IN SUBSTRUCTURE
	August 2024

Amendments to OPSS.MUNI 904

OPSS.MUNI 904 shall apply except as may be amended and extended herein.

904.01 SCOPE

Section 904.01 of OPSS 904 is amended by the addition of the following:

Work under the tender item ‘Concrete in Substructure’ shall include the installation of shear blocks and pedestals at each abutment as per the Contract Documents. Shear blocks at the abutments shall be constructed after bearing replacement.

F-904C-002 - PWC-2025-46	DOWELS INTO CONCRETE
	August 2024

Amendments to OPSS.MUNI 904

OPSS.MUNI 904 shall apply except as may be amended and extended herein.

904.01 SCOPE

Section 904.01 of OPSS 904 is amended by the addition of the following:

Work under this item includes supply and placement of all dowels. Testing of dowels shall also be the responsibility of the Contractor.

904.07 CONSTRUCTION

Section 904.07.05.04.03 of OPSS 904 is amended by the addition of the following:

Based on the quantity of bent dowels, the Contractor shall install a minimum of 3 straight test dowels per lot to confirm the quality of installation. The dowels shall be of equal size and composition as that being installed and location to be equally distributed within the lot. Test dowels may remain, provided they do not interfere with construction, or shall be cut off at the face of concrete.

Testing of dowels shall be in the presence of the Contract Administrator.

904.10 BASIS OF PAYMENT

Section 904.10.02 of OPSS 904 is amended by the addition of the following:

Payment at the Contract price for the “Dowels in Concrete” item shall be in full compensation for all labour, Equipment, and Material to do the work. The Contractor shall be responsible for the costs for all dowel testing.

F-905C-001 - PWC-2025-46

REINFORCING STEEL BARS

August 2024

Amendments to OPSS.MUNI 905

OPSS.MUNI 905 shall apply except as may be amended and extended herein.

905.09.01 Actual Measurement

Subsection 905.09.01 of OPSS 905 is amended by the addition of the following:

905.09.01.02 Reinforcing Steel Bars

Measurement shall be by mass in tonnes (t).

Amendments to OPSS.MUNI 905

OPSS.MUNI 905 shall apply except as may be amended and extended herein.

905.01 SCOPE

Section 905.01 of OPSS 905 is amended by the addition of the following:

Work under the tender item 'Threaded Anchor Rods' shall include the supply and install of 52mm diameter galvanized threaded anchor rods and nuts for the shoe plates at the pier. Anchor rods and nuts shall be hot dip galvanized to ASTM A307 Grade A and ASTM A153. Work under this tender item shall also include all work associated with installing the threaded anchor rods, including drilling of holes, preparation and cleaning of holes, epoxy anchor rods in place, and pull tests. Threaded anchor rods shall be epoxied in place using Hilti Hit-Re 500 v3 epoxy or approved equivalent.

New anchor rods at the pier may conflict with existing anchor rods. Contractor to verify onsite prior to fabrication of new shoe plates. If a conflict is present, the Contract Administrator shall be notified immediately and will direct the Contractor on modifications to the shoe plates. The contractor should cores/drill holes in pier for anchor rods prior to diaphragm strengthening as access may be limited following diaphragm strengthening operations.

905.07 CONSTRUCTION

Section 905.07 of OPSS 905 is amended by the addition of the following:

905.07.07 Threaded Anchor Rods**905.07.07.01 General**

The contractor shall carry out pull testing of each threaded anchor rod prior to installation of shoe plates and during production. Pull test loads shall be 80kN. The Contractor shall notify the Contract Administrator in writing when the threaded anchor rods are ready for testing. The Contractor shall allow 3 Business Days for the Contract Administrator to witness the testing.

An individual threaded anchor rod shall not be subjected to more than one (1) pull test.

The Contractor shall provide documentation of equipment calibration to the Contract Administrator a minimum of 14 Days prior to any pull testing of the threaded anchor rods.

905.07.07.02 Installation

Contractor shall core/drill holes to the required dimensions, clean holes, and prepare the holes to the epoxy manufacturer's specifications prior to epoxy placement. Anchor rod epoxy shall be Hilti Hit-Re 500V3 Epoxy or approved equivalent. All excess dowel epoxy shall be struck-off flush with the concrete surface and removed from the surrounding concrete surface area.

The Contractor's operations shall not cause spalling, cracking, or other damage to the surrounding concrete. Concrete spalled or otherwise damaged by the Contractor's operations shall be repaired in a manner acceptable to the Contract Administrator and at the expense of the Contractor.

905.07.07.04 Pull Test

905.07.07.04.01 General

The Contractor shall not install or attach anything to the threaded anchor rods until the pull tests have been completed and the anchor rods are accepted into the work.

905.07.07.04.02 Pull Test Procedure

The Contractor shall conduct pull testing within 3 Business Days of installation. The Contract Administrator shall be present during the test procedure. The pull test load of 80 kN must be sustained by the threaded anchor rod, without displacement, for a time period of no less than one minute.

905.07.07.04.03 Replacement of Failed Anchorage

All threaded anchor rods failing the pull test requirement shall be replaced by the Contractor by installing a new threaded anchor rod at no additional cost to the County.

Threaded anchor rods failing the pull test requirement, shall be removed and replaced by the Contractor at no additional cost to the County.

Additional pull testing due to failed anchorage shall be done at no additional cost to the County.

905.09 MEASUREMENT OF PAYMENT

Subsection 905.09.01 of OPSS 905 is amended by the addition of the following:

905.09.01.03 Threaded Anchor Rods

Measurement shall be by each threaded anchor rod (ea).

905.10 BASIS OF PAYMENT

Section 905.10 of OPSS 905 is amended by the addition of the following:

905.10.03 Threaded Anchor Rods – Item

Payment at the Contract price for the above tender items shall be full compensation for all labour, Equipment, and Material to do the work.

F-905C-004 - PWC-2025-46
25X25mm STAINLESS STEEL WIRE MESH

 August 2024

Amendments to OPSS.MUNI 905

OPSS.MUNI 905 shall apply except as may be amended and extended herein.

905.01 SCOPE

Section 905.01 of OPSS 905 is amended by the addition of the following:

Work under tender item “25x25mm Stainless Steel Wire Mesh” shall include the use of HILTI bolts and stainless-steel wire mesh to provide wire attachment to concrete repair areas at the concrete light pole bases.

905.09 MEASUREMENT FOR PAYMENT

Section 905.09 of OPSS 905 is amended by the addition of the following:

905.09.01.04 25X25mm STAINLESS STEEL WIRE MESH

Measurement of the item “Stainless Steel Wire Mesh” shall be Lump Sum for a repair quantity equal to or less than 3 m². A negotiated unit rate acceptable to the Contract Administrator and Contractor shall be established for repairs in excess 3 m².

905.10 BASIS OF PAYMENT

Section 905.10 of OPSS 905 is amended by the addition of the following:

905.10.04 25X25mm STAINLESS STEEL WIRE MESH – Item

Payment at the Contract price for the above tender items shall be full compensation for all labour, Equipment, and Material to do the work.

Amendments to OPSS.MUNI 906

OPSS.MUNI 906 and OPSS 922 shall apply except as may be amended and extended herein.

906.01 SCOPE

Section 906.01 of OPSS 906 is amended by the addition of the following:

Work under tender item 'Structural Steel in Corbel, Exterior Jacking Supports, and Diaphragms' shall include strengthening of existing diaphragms, supply and installation of exterior steel supports for jacking, and supply and installation of new abutment corbels including anchor rods as specified in the Contract Documents. Work under this tender item shall include all work associated with installing the anchor rods for Corbel installation, including drilling of holes, preparation and cleaning of holes, epoxy anchor rods in place, and pull tests of anchor rods. Anchor rods shall be epoxied in place using Hilti Hit-Re 500V3 epoxy or approved equivalent. SikaTop-123 Plus or approved equivalent shall be placed between the abutment and the corbel to fill any gaps. Once the corbels have been installed, anchor rods shall be cut 100mm (+/- 25mm) proud of the nuts. Exterior jacking supports shall be removed after all jacking work is complete and the bridge has been lowered onto new elastomeric bearings. This tender item shall include removal and disposal of the exterior jacking supports including supply and installation of new bolts at the holes remaining after removal of the exterior jacking supports.

Work under tender item 'Structural Steel in Braces and Gussets' shall include the removal and replacement of existing lateral plan bracing elements and gusset plates identified in the Contract Documents. This tender item shall include the supply and install of temporary bracing elements to be installed prior to removal of existing bracing elements and gusset plates. The temporary bracing elements shall be detailed to sufficiently transfer loads once existing bracing elements and gusset plates have been removed.

Work under tender item 'Structural Steel in Shoe Plates' shall include the supply and install of new shoe plates, including pintles and silicon sealer, as specified in the Contract Documents. Silicon sealer shall be SikaFlex-1A manufactured by Sika or approved equivalent.

Work under tender item 'Structural Steel in Bumper Plates' shall include the supply and install of new bumper plates with shear studs as specified in the Contract Documents. Hot dip galvanizing of bumper plates to ASTM 123 shall be included under this tender item.

Coating of new structural steel elements shall be paid for under a separate tender item.

906.04 DESIGN AND SUBMISSION REQUIREMENTS**906.04.02 Submissions**

906.04.04 Temporary Lateral Plan Bracing

The contractor shall submit three (3) sets of the temporary bracing plans to the Contract Administrator for review and approval at least three (3) weeks prior to installation of temporary bracing. The submission shall bear the signature and seal of an Engineer licensed in the Province of Ontario.

906.07.01 Fabrication

906.07.01.01 General

Clause 906.07.01.01 of OPSS 906 is amended by the addition of the following:

Contractor shall verify all measurements in the field prior to fabrication of structural steel elements.

906.07.03 Erection

906.07.03.01 General

Clause 906.07.03.01 of OPSS 906 is amended by the addition of the following:

Adequate temporary bracing shall be installed prior to starting structural steel repairs. All bottom lateral bracing and gusset plates identified for replacement shall be replaced prior to diaphragm replacement. At no time shall two lateral plan braces be disconnected from the structure at one time. **Diaphragms shall be strengthened in the order shown on the construction drawings and prior to jacking.** At no time shall two existing diaphragms' lateral bracing be disconnected from the structure at one time. No scaffolding is permitted on the bridge during diaphragm replacement.

Rivets shall be cut off each girder end to facilitate removal of existing shoe plates. New bolts shall be installed in holes in the bottom flange left from rivets in accordance with the contract drawings.

906.07.03.05 Bearings

Clause 906.07.03.05 of OPSS 906 is amended by the addition of the following:

Pintles shall be installed as per the construction drawings.

906.07.10 Corbel Anchor Rods

906.07.10.01 General

Structural steel corbels shall be connected to the existing concrete abutments using anchor rods as directed by the Contract Documents. The contractor shall carry out pull testing of each anchor rod prior to Corbel installation and during production. Pull test loads shall be 300kN. The Contractor shall notify the Contract Administrator in writing when the anchor rods are ready for testing. The Contractor shall allow 3 Business Days for the Contract Administrator to witness the testing.

An individual anchor rod shall not be subjected to more than one (1) pull test.

The Contractor shall provide documentation of equipment calibration to the Contract Administrator a minimum of 14 Days prior to any pull testing of the dowels.

906.07.10.02 Installation

Contractor shall core/drill holes to the required dimensions, clean holes, and prepare the holes to the epoxy manufacturer's specifications prior to epoxy placement. Anchor rod epoxy shall be Hilti Hit-Re 500V3 Epoxy or approved equivalent. All excess dowel epoxy shall be struck-off flush with the concrete surface and removed from the surrounding concrete surface area.

Steel reinforcement shall not be cut or damaged by the drilling process. Prior to drilling holes, the Contractor shall locate existing steel reinforcement using a covermeter. Holes that are started but not completed shall be cleaned and filled with a proprietary patching material.

The Contractor's operations shall not cause spalling, cracking, or other damage to the surrounding concrete. Concrete spalled or otherwise damaged by the Contractor's operations shall be repaired in a manner acceptable to the Contract Administrator.

SikaTop-123 Plus or approved equivalent shall be placed between the abutment and the corbel to fill any gaps. Snug tighten anchor rod nuts and allow SikaTop-123 Plus to fully cure before fully tightening anchor rod nuts an additional 1/3 turn.

906.07.10.04 Pull Test

906.07.10.04.01 General

The Contractor shall not install formwork or attach anything to the anchor rods until the pull tests have been completed and the anchor rods are accepted into the work.

906.07.10.04.02 Pull Test Procedure

The Contractor shall conduct pull testing within 3 Business Days of installation. The Contract Administrator shall be present during the testing procedure. The pull test load of 300 kN must be sustained by the anchor rod, without displacement, for a time period of no less than one minute.

906.07.10.04.03 Replacement of Failed Anchorage

All anchor rods failing the pull test requirement shall be replaced by the Contractor by installing a new anchor rod at no additional cost to the County.

Anchor rods failing the pull test requirement shall be removed and replaced by the Contractor at no additional cost to the County.

Additional pull testing due to failed anchorage shall be done at no additional cost to the County.

906.10 BASIS OF PAYMENT

Clause 906.10.02 of OPSS 906 is amended by the addition of the following items

- 906.10.05 Structural Steel in Corbel, Exterior Jacking Supports, and Diaphragms – Item**
- Structural Steel in Braces and Gussets - Item**
- Structural Steel Shoe Plates - Item**
- Structural Steel Bumper Plates – Item**

Corbel anchor rods that fail the pull test as a result of concrete breakout failure and not by bond failure, shall be replaced with new anchor rods. Repairs of the abutment (concrete removals and new concrete) will be paid elsewhere in the contract. Supply of a new anchor rod and installation labour cost for reinstallation the anchor rod will be negotiated between the County and Contractor if the situation arises.

F-908C-001 - PWC-2025-46 BARRIER WALL RAILING, MOUNTING BRACKETS & HARDWARE REPLACEMENT
August 2024

Amendments to OPSS.MUNI 908

OPSS.MUNI 908 shall apply except as may be amended and extended herein.

908.01 SCOPE

Section 908.01 of OPSS 908 is amended by the addition of the following:

Work under tender item “Barrier Wall Railing, Mounting Brackets & Hardware Replacement” shall include repair and replacement of multiple railing posts as identified by the Contract Administrator. Replacement procedures shall be Type I or Type II as described in the Contract Documents. Existing railing sections identified by the Contract Administrator for replacement shall be disposed off site by the Contractor.

908.09 MEASUREMENT FOR PAYMENT

- 908.09.03 Barrier Wall Railing, Mounting Brackets & Hardware Replacement**

For bidding purposes, the contractor shall bid a lump sum for the above tender item assuming six (6) Type I repairs, two (2) Type II repairs, and 12m of barrier wall railing replacement include all materials, labour, equipment, and disposal. Measurement for payment for work completed shall be at an established unit rate for each repair type to be negotiated with the Contract Administrator once the Contract has been awarded.

908.10 BASIS OF PAYMENT

Section 908.10 of OPSS 908 is amended by the addition of the following:

908.10.02 Barrier Wall Railing, Mounting Brackets & Hardware Replacement – Item

Payment at the Contract price for the above tender item shall be full compensation for labour, Equipment, and Material to do the work.

F-911C-001 - PWC-2025-46

COATING OF STEEL

August 2024

Amendments to OPSS.MUNI 911

OPSS.MUNI 911 shall apply except as may be amended and extended herein.

911.01 SCOPE

Section 911.01 of OPSS 911 is amended by the addition of the following:

Work under tender item “Coating New Structural Steel” shall include surface preparation via abrasive blast cleaning and coating of all new structural steel as per the Contract Documents. Paint colours shall be as specified in the Contract Drawings. No debris from surface preparation or structural steel coating operations may enter the watercourse.

Work under tender item “Coating Existing Structural Steel” shall include surface preparation via abrasive blast cleaning and coating of all existing structural steel components as specified in the contract documents. No debris from surface preparation or structural steel coating operations may enter the watercourse.

All paint coating systems shall consist of one (1) primer coat, one (1) intermediate coat (minimum), and one (1) top coat.

The Contractor is notified that the existing structural steel coating has been identified as exceeding the designated substance limits for lead content as per the Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance and Repair (2014). A designated substance survey indicated a maximum of 288,000 ppm of lead content found in a sample of paint coating from the steel components of the Combermere Bridge, which exceeds the EACC limit of 1,000 ppm. Work under tender item “Environmental Protection During

Surface Preparation and Coating of Structural Steel and Steel Railing Systems” shall include all procedures related to lead paint abatement including a Full Enclosure with Negative Pressure, disposal of contaminated material, and any additional requirements in accordance with Provincial and Federal legislation on lead paint abatement.

OPSS 911 is amended by the addition of section 911.09 as follows:

911.09 MEASUREMENT FOR PAYMENT

**911.09.01 Coating New Structural Steel
Coating Existing Structural Steel**

Measurement for the item “Coating of New Structural Steel” shall be by area in square metres (m²). Measurement for the item “Coating of Existing Structural Steel” shall be by lump sum (LS).

911.09.02 Environmental Protection During Coating of Steel

Measurement for the item “Environmental Protection During Coating of Steel” shall be by lump sum (LS).

F-914C-001 - PWC-2025-46

BRIDGE DECK WATERPROOFING

August 2024

Amendments to OPSS.MUNI 914

OPSS.MUNI 914 shall apply except as may be amended and extended herein.

914.01 SCOPE

Section 914.01 of OPSS 914 is amended by the addition of the following:

Work under the tender item “Bridge Deck Waterproofing” shall include the waterproofing of the existing concrete bridge deck with hot applied asphalt membrane, including deck surface preparation via abrasive blast cleaning.

914.07.08.01 Delivery of Samples

Clause 914.07.08.01 is deleted in its entirety and replaced by the following:

Samples of the waterproofing membrane, waterproofing membrane reinforcement, joint sealing compound, tack coat, and the protection board shall be delivered to the Contract Administrator.

914.09 MEASUREMENT FOR PAYMENT

Subsection 914.19.01 is deleted in its entirety and replaced by the following:

914.09.01 Actual Measurement**914.09.01.01 Bridge Deck Waterproofing**

Measurement of bridge deck waterproofing shall be by area in square metres. Allowance shall not be made in measurement for the turn-up at vertical faces, for any overlap, or for a second application of waterproofing membrane over the membrane reinforcement. Deck surface preparation shall be measured for payment under this tender item.

F-920C-001 - PWC-2025-46
EXPANSION JOINT SEAL

August 2024

Amendments to OPSS.MUNI 920

OPSS.MUNI 920 shall apply except as may be amended and extended herein.

920.01 SCOPE

Section 920.01 of OPSS 920 is amended by the addition of the following:

Work under the tender item “Expansion Joint Seal” shall include the removal and installation of a new continuous joint strip seal to the expansion joints. Repairs to the expansion joint armoring shall also be included under this tender item.

920.07.03 Repair of Existing Deck Joints

Subsection 920.07.03 of OPSS 920 is amended by the addition of the following:

Expansion joint end dam concrete repairs shall be completed under the “Concrete Removal – Partial Depth Type A” (F-928C-002 - PWC-2025-46) and “Elastomeric Concrete” (F-999C-002 - PWC-2025-46) items of these Contract Documents.

A new continuous joint strip seal matching the profile of the existing shall be installed following all other expansion joint repairs. All armoring hold-down bolts shall be replaced with new hold down bolts. Some of the existing hold down bolts are damaged (varying from bent bolts to bolts completely sheared off). The contractor shall extract all damaged or sheared off bolts. Damaged threaded holes shall be re-tapped.

Repairs to the armoring include reaming out holes, as required, to fit new countersunk bolts. The welded connection between steel armoring angles and headed concrete anchors have failed in numerous locations. Headed anchors with failed welds exposed within the concrete end dams shall be re-welded to steel armoring to the satisfaction of the contract administrator.

920.09 MEASUREMENT FOR PAYMENT

920.09.01 Expansion Joint Seal

Measurement for the item “Expansion Joint Seal” shall be by length in metres (m).

The Contractor shall assume 10 anchors will require preparation and re-welding to the steel armouring.

The Contractor shall assume all bolts are either seized, sheared off, broken, or failed in any other way. It shall be the Contractor’s responsibility to extract all bolts, re-tap all threaded holes, and supply and install new bolts.

920.10 BASIS OF PAYMENT is amended by the addition of the following to the list of items in 920.10.01:

Expansion Joint Seal - Item

F-922C-001 - PWC-2025-46

BRIDGE JACKING FOR BEARING REPLACEMENT

August 2024

Amendments to OPSS.MUNI 922

OPSS.MUNI 922 shall apply except as may be amended and extended herein.

922.01 SCOPE

Section 922.01 of OPSS 922 is amended by the addition of the following:

The work under this tender item shall include all labour, Equipment and Material required to jack the existing superstructure off the bearings, block the structure for a period of time while pier and abutment and pier repairs are completed and new bearings are installed, and lowering the superstructure back onto new bearings as detailed on the Contract Documents. Removal of existing bearings and shoe plates shall be included under this tender item.

922.04 SUBMISSION AND DESIGN REQUIREMENTS**922.04.01.02 Jacking**

Clause 922.04.01.02 of OPSS 922 is deleted in its entirety and replaced with the following:

The Contractor shall submit three (3) sets of the jacking drawings to the Contract Administrator at least three (3) weeks prior to the commencement of jacking, for information purposes only. The submission shall include the method and location, type, and capacity of jacks to be used; the type and location of the gauges; and the calibration certificates for both the jacks and gauges and all necessary dimensions and detail of the jacking scheme. The submission shall bear the signature and seal of an Engineer licensed in the Province of Ontario.

The Contractor shall have a copy of the jacking drawings or the approved jacking proposal drawings at the site prior to and during the jacking operation.

Under the jacking arrangement shown on the Contract Documents, the jacks shall be seated on top of temporary supports and transfer load directly to the substructure (pile cap/abutment wall) at the specified locations. Jacking shall be arranged in such a manner that the total lift and lifting force at each jack can be individually monitored and controlled. Jacking shall be carried out under dead load only. The temporary supports shall be designed to accommodate live loads while girder and abutment repairs are completed. The superstructure shall be raised by an amount not exceeding 25 mm using a synchronized jacking system. At no time shall the difference in lifts between adjacent jacks exceed 1.5 mm. Differential displacement between adjacent jacks longitudinally at the pier shall not exceed 1 mm. Jacks shall be self-locking and capable of supporting no less than the theoretical jacking loads specified in the Contract. **The structure shall not be open to vehicular traffic and construction loads during active jacking operations.** Jacks shall be furnished with steel distribution plates and grout pads to evenly distribute the load to the superstructure and substructure components. All temporary blocking shall consist of steel plate and/or steel shims and shall be welded together during the blocked state when the bridge is open to live traffic.

Lateral bracing shall be provided during jacking and blocking operations as shown on the Contract Documents.

The Contractor shall be responsible to include any remedial work to modify the pile cap and abutment to adequately support their jacking equipment. The details shall be included in the Contractor's jacking proposal submission. Reinstatement of any remedial work shall be at the discretion of the Contract Administrator; otherwise, the Contractor shall be responsible to restore the abutments to existing conditions.

The Contractor shall place jacks according to the jacking scheme detailed in the Contract Documents. In addition, the following requirements shall be met:

- The temporary supports shall be designed to accommodate live loads.
- All steel to concrete interfaces shall be fitted with grout pads (vertical and horizontal).
- Temporary lateral restraint and longitudinal restraint shall be provided when jacked and/or blocked/locked. For design purposes, the contractor shall consider the following maximum displacements between the superstructure and substructure:
 - Maximum transverse displacement of 3 mm at both abutments and at the pier,
 - Maximum longitudinal displacement of 3 mm at the pier.
- Shimming/blocking shall be provided in addition to locking collar jacks. Both locking jacks and blocking shall remain in place while the structure is subject to live load under the jacked /state.
- The blocking/locking jack system shall accommodate longitudinal movement of the superstructure as detail on the Contract Documents.
- Each jacking location shall be fitted with a pressure gauge and a stop valve.

Each jack location shall be fitted with Linear variable differential transformer (LVDT) sensors for jacking operations.

922.05 MATERIALS

Section 922.05 of OPSS 922 is amended by the addition of the following:

922.05.03 Jacks

Jacks used shall be of sufficient capacity to jack dead loads as specified on the Contract Documents. All jacks shall be connected to a common manifold and monitoring device. Current calibration certificates shall be provided for all gauges. The Contactor is advised that the forces required to lift the girders may be greater than the theoretical load given in the Drawings.

922.07 CONSTRUCTION**922.07.08 Jacking**

Subsection 922.07.08 of OPSS 922 is amended by the addition of the following:

The Contractor shall provide safe access to both their own staff and the Inspectors in order to monitor and carry out the work included under this tender item.

When setting the superstructure onto new bearings, the bearings shall have uniform and full contact at both the girder and abutment seat locations. If any of the bearings are not properly seated or at the correct elevation, the bridge shall be jacked up again and remedial work performed until the bearings have full contact and the superstructure is uniformly supported. Such remedial work, when required due to the Contractor's removal methods, shall be done at the Contractor's expense. Proposed remedial work shall be reviewed by the Contract Administrator prior to commencement.

The Contractor shall loosen and adjust the bridge railing system as required to accommodate the jacking procedure.

Operational Constraints – Jacking and Bearing Replacement

The following shall be completed prior to jacking:

- Cut existing anchor rods.
- Remove expansion joint seals.
- Disconnect parapet wall railings.
- Disconnect multi-use pathway expansion joint cover plate.
- Free girders jammed against ballast wall.
- Complete pier and abutment diaphragm replacement and diaphragm strengthening.

The bridge shall be closed to traffic during jacking operations. Bridge closures shall be as specified elsewhere in the Contract Documents. The structure shall only be open to vehicular traffic when the bridge is blocked or supported at the bearing locations.

No service load or constructor equipment not necessary to the jacking operations will be permitted on the bridge during active jacking operations. No scaffolding is permitted on the bridge during jacking or while the structure is jacked and blocked.

The Contractor shall cease all operations relating to removals and new construction during jacking operations.

922.09 MEASUREMENT FOR PAYMENT

Section 922.09 of OPSS 922 is amended by the addition of the following:

922.09.02 Jacking

The work required to carry out jacking of the superstructure shall not be measured for payment.

922.10 BASIS OF PAYMENT

Subsection 922.10.02 of OPSS 922 is amended by the addition of the following:

922.10.02 Jacking

Payment at the Contract price for the above item shall be full compensation for all labour, Equipment and Material to do the work.

F-922C-002 - PWC-2025-46

BEARINGS
August 2024

Amendments to OPSS.MUNI 922

OPSS.MUNI 922 shall apply except as may be amended and extended herein.

922.05.01 Bearings

Subsection 922.05.01 of OPSS 922 is deleted in its entirety and replaced by the following:

Bearings shall be laminated elastomeric bearing pads according to OPSS 1202 and as specified in the Contract Documents.

922.09 MEASUREMENT FOR PAYMENT

Subsection 922.09.01 of OPSS 922 is deleted in its entirety and replaced by the following:

922.09.01 Bearings

Measurement of payment for the item "Bearings" shall be by each bearing (ea).

F-928C-001 - PWC-2025-46
CONCRETE REMOVAL – PARTIAL DEPTH

 August 2024

Amendments to OPSS.MUNI 928

OPSS.MUNI 928 shall apply except as may be amended and extended herein.

928.07.07.01 General

Subsection 928.07.07.01 of OPSS 928 is amended by the addition of the following:

Concrete removals for the expansion joint end dam concrete repairs shall be included under the item “Concrete Removal – Partial Depth Type A”.

Concrete removal for freeing the jammed girder from the ballast wall shall be included under the item “Concrete Removal – Partial Depth Type C”.

928.07.07.04 Concrete Removal – Deck Joint Assemblies

Subsection 928.07.07.04 of OPSS 928 is amended by the addition of the following:

Damaged concrete shall be removed at the expansion joint end dams as directed by the contract administrator.

929.09.02.01 Concrete Removal – Partial Depth Types A, B, and C

Subsection 928.09.02.01 of OPSS 928 is amended by the addition of the following:

Measurement for payment for Concrete Removal – Partial Depth Types A, B, and C shall be by volume as specified in Clause 928.09.01.02.03.

F-929C-001 - PWC-2025-46
ABRASIVE BLAST CLEANING OF REINFORCING STEEL

 August 2024

Amendments to OPSS.MUNI 929

OPSS.MUNI 929 shall apply except as may be amended and extended herein.

929.01 SCOPE

Section 929.01 of OPSS 929 is amended by the addition of the following:

Exposed reinforcing steel and armouring shall be abrasively blast cleaned with the areas of concrete removals.

F-930C-001 - PWC-2025-46
CONCRETE PATCHES AND CRACK REPAIR

 August 2024

Amendments to OPSS.MUNI 930

OPSS.MUNI 930 shall apply except as may be amended and extended herein.

930.01 SCOPE

Work under tender item “Crack Repair in Curbs” shall include preparation, cleaning, and filling cracks in the curb with SikaDur Crack Fix manufactured by Sika or approved equivalent and as directed by the Contract Administrator.

**930.09.02.05 Concrete Patches, Formed Surface
Concrete Patches, Unformed Surface**

Clause 930.09.02.05.02 shall be amended by the addition of the following:

Measurement for payment for the items “Concrete Patches, Formed Surface”, and “Concrete Patches, Unformed Surface” shall be by volume of concrete placed in cubic metres.

930.09.04 Crack Repair in Curbs

Measurement of the item “Crack Repair in Curbs” shall be Lump Sum (LS) for a repair quantity equal to or less than 6 cracks.

930.10 BASIS OF PAYMENT

Section 930.10 of OPSS 930 shall be modified by the addition of the following to the list of items under 930.10.01:

Crack Repair in Curbs - Item

F-999C-001-PWC-2025-46
CONCRETE SEALING

 November 2024

SCOPE

Work under ‘Concrete Sealing’ shall include coating of the abutment ballast wall after freeing the jammed girder and patching/sealing the chipped surface with SikaTop Seal 107 or approved equivalent.

Work shall also include coating of all faces of the existing parapet walls with Techcrete 2500 or approved equivalent once concrete repair works on the parapet walls have been completed.

All concrete surfaces to be sealed and coated shall be prepared according to the concrete sealer/coating manufacturer's specifications prior to applying concrete sealer.

MATERIALS

Abutment ballast wall shall be sealed and top coated with SikaTop Seal 107 or approved equivalent. Parapet walls shall be sealed and coated with Techcrete 2500 or approved equivalent.

APPLICATION

Concrete and surface preparation and application of SikaTop Seal 107, Techcrete 2500 or approved equivalent shall be in accordance with the product manufacturer's recommendations.

MEASUREMENT FOR PAYMENT

Measurement of the Concrete Sealing shall be by lump sum (LS).

BASIS OF PAYMENT

Payment at the Contract price for the above tender item, surface preparation and application of SikaTop Seal 107, Techcrete 2500 or approved equivalent, shall be full compensation for all labour, Equipment and Material to do the Work.

F-999C-002 - PWC-2025-46

ELASTOMERIC CONCRETE

October 2024

1.0 SCOPE

Elastomeric concrete shall be placed in the concrete end dams in accordance with the details shown on the Contract Drawings and the requirements of the specifications. Concrete shall be Wabo Crete II (supplied by Watson Bowman ACME, a SIKA Company) or approved equivalent. Concrete bonding agents as per manufacturer's requirements shall be installed prior to placement of concrete.

2.0 REFERENCES

This work requires the mandatory use of the following documents:

Ministry of Transportation Ontario (MTO)
 Designated Sources for Materials (DSM)
 Structural Manual (MTO)
 Ontario Provincial Standard Specifications

OPSS 920 Deck Joint Assemblies, Preformed Seals, Joint Fillers, Joint Seals, Joint Sealing Compounds, and Waterstops – Structures

ASTM International

D695 Standard Test Method for Compressive Properties of Rigid Plastics

C882 Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete by Slant Shear

D3029 Standard Test Method for Impact Resistance of Rigid Plastic Sheeting or Parts by Means of a Tup (Falling Weight)

3.0 MATERIALS

The Contractor shall provide an elastomeric concrete product that is a two-component elastomer and pregraded aggregate mix, with the materials being supplied as a unit by the Manufacturer.

The Contractor shall furnish a manufacturer's certification that the materials proposed have been pre-tested and comply with the following minimum requirements at the end of the specified curing time.

Elastomeric concrete material shall be an ambient cure, 100% solids, two-component polyurethane with pregraded aggregate mix exhibiting the physical properties listed in the tables below. When properly mixed and poured, the elastomeric concrete material cures rapidly, flows and fills any voids, spalls, or irregularities, forming a monolithic unit.

Elastomeric concrete material shall meet the following physical properties:

Physical Properties	Test Method	Minimum Requirement
Compressive Strength	ASTM D695	15 MPa
Resilience at 5% Deflection	ASTM D695	90%
Slant Shear Bond Strength to Concrete	ASTM C882	1.7 MPa
Impact Resistance at 0°C at -29°C at 70°C	ASTM D3029	No cracks No cracks No cracks

The Contractor shall install the elastomeric concrete with the use of a bonding agent. The bonding agent shall be a two-component, 100% solids material. The Contractor shall store, mix, and apply the bonding agent in accordance with the manufacturer's requirements.

4.0 CONSTRUCTION

4.01 Storage

The Contractor shall submit product information to the Contract Administrator prior to completing any work.

Materials delivered to the work site shall be stored in the original unopened containers within an appropriate facility capable of maintaining storage conditions consistent with the requirements of the Manufacturer.

4.02 Installation

The Contractor shall clean and dry the existing concrete surface according to the Manufacturer's instructions. The Contractor shall prepare and apply a bonding agent to areas specified by the Manufacturer and in accordance with the Manufacturer's instructions.

The Contractor shall mix and place the elastomeric concrete as directed by the Contract Administrator and in strict accordance with the Manufacturer's instructions, along with the advice of their qualified representative.

The Contractor shall protect the elastomeric concrete end dam material from damage and allow the end dams to cure properly according to the Manufacturer's requirements prior to opening the work area to traffic.

5.0 MEASUREMENT FOR PAYMENT

Measurement of payment for the item "Elastomeric Concrete" shall be by volume in cubic metres (m³) and shall include bonding agents.

6.0 BASIS OF PAYMENT

Payment at the Contract price for the item "Elastomeric Concrete" shall be full compensation for all labour, Equipment and Material to do the work.

SECTION G
APPENDICES

INDEX FOR SECTION 'G' – APPENDICES

Appendix 12 Drawings numbered 45D2501 to 45D2512