

PWC-2025-45
Rehabilitation of County Structure B145 (Combermere Bridge)

Addendum No.2

Bidders are advised of the following revisions to the Tender Documents:

The Tender Recipient shall be notified by this Addendum that the County of Renfrew has amended Tender PWC-2025-45 for the Rehabilitation of County Structure B145 (Combermere Bridge) as follows:

1) Schedule of Prices:

The Schedule of Prices is amended as follows:

- Item 10 - Pavement Markings Reinstatement, - Changing of Quantity to 575 metres;
- Item 36 - Concrete Removal – Partial Depth Type A - Changing Quantity of to 3 cubic metres;
- Item 43 – Concrete Sealing - Unit of measurement has been changed to Lump Sum;
- Item 44 - Addition of Elastomeric Concrete with a quantity of 0.5 cubic metre, with F-999C-002-PWC-2025-45 referenced; and,
- Item 45 - Field Office for Contract Administrator 20-34 m2 formerly Item 44 has been moved to Item 45.

2) Section F, Special Provisions:

The below Special Provisions, as part of Section F, have been amended or added:

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 armouring 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-2025-45) and “Elastomeric Concrete” (F-999C-002 - PWC-2025-45) 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 armouring 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-930C-001 - PWC-2025-45	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

SCOPE

Work under 'Concrete Sealing' shall include coating of the abutment ballast wall after freeing the jammed girder and patching the chipped surface with SikaDur 32 and top coated with SikaTop Seal 107 or approved equivalent.

Work shall also include coating of all faces of the existing parapet walls with SikaTop Seal 107 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

Concrete surfaces shall be sealed with SikaDur 32 and top coated with SikaTop Seal 107 or approved equivalent.

APPLICATION

Concrete and surface preparation and application of SikaDur 32 and SikaTop Seal 107 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 SikaDur 32 and SikaTop Seal 107 or approved equivalent, shall be full compensation for all labour, Equipment and Material to do the Work.

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.

Bidders are also advised of the following questions that have been received along with the answers provided:

Question 1:

Please confirm the blasting type and coating finish color type as the drawing and specs doesn't clarify exactly what type of blasting and painting type they want (ex. color code RAL, etc.).

Answer 1:

Blast cleaning for new structural steel shall conform to OPSS 911 Clause 911.07.03.02 and blast cleaning for existing structural steel shall conform to OPSS 911 Clause 911.07.03.03. For paint color, refer to Sheet 1 General Note 6 of the drawings.

Question 2:

Sheet 12 shows a Typical Full Depth Deck Repair Detail, Formed Surfaces. Please clarify how much of this there is to do and where the full depth removal is paid.

Answer 2:

Full depth removals are not anticipated to be required on the deck. This detail can be ignored.

Question 3:

Item # 43 Concrete Sealing is paid on the SOP as a LS item but yet the Schedule of Prices states that measurement for payment shall be in m2. Please provide the amount of m2 to be sealed.

Answer 3:

The intent was for the measurement for payment to be by lump sum. The Schedule of Prices has been updated accordingly in the latest addendum.

Please ensure that all parties and subtrades submitting bids are aware of the items included in this Addendum.

Prepared by: Taylor Hanrath, P.Eng., Manager of Capital Works, County of Renfrew

All contractors are to sign this addendum and submit it with their quotation.

Date Issued:	November 6, 2024
Closing Date/Time:	Tuesday, November 14, 2024; 2:00 p.m.
Contractor's Name	
Signature	
Name (Please print)	

--End of Addendum--