

4-2018 ADDENDUM 2

CHIEF PEGUIS GREENWAY EXTENSION – FROG PLAIN WAY TO HENDERSON HIGHWAY

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: March 05, 2018
BY: Justin Magne, P.Eng.
TELEPHONE NO. 204-259-5456

**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 4-2018 Bid Submission with 4-2018 Addendum 2 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

- Form B(R1): Revise Item numbers from Section C to Section D inclusive.
- Form B(R1): Delete Item C.35: Installation of New Overhead Sign Panel
- Form B(R1): Delete Item C.35 i): 4200mm x 2135mm
- Form B(R1): Delete Item D.9: Removal of Abandoned Utility
- Form B(R1): Delete Item E.10: Manitoba Hydro Contribution
- Form B(R1): Add Item D.4 vii): Removal of Abandoned Utility
- Form B(R1): Add Item D.8: Place Black Reinforcing Steel
- Form B(R1): Add Item D.9: Place Stainless Steel Reinforcing
- Form B(R1): Add Item D.10 iv): Stairway Modifications
- Form B(R1): Add Item D.14 ii): Stairway Modifications New Panel & Posts
- Form B(R1): Add Item D.15: Supply and Install Anchor Units for Stairway Railing Extension
- Form B(R1): Revise D.6 Item Description to read: Supply Black Reinforcing Steel
- Form B(R1): Revise D.7 Item Description to read: Supply Stainless Steel Reinforcing
- Form B(R1): Revise A.43 i) Unit to read: m²
- Form B(R1): Revise A.43 ii) Unit to read: m²
- Form B(R1): Revise Specification Reference A.26 to read: E52
- Form B(R1): Revise Specification Reference A.48 and A.49 to read: CW 3650-R6, E39

- Form B(R1): Revise Specification Reference A.50 to read: E40
- Form B(R1): Revise Specification Reference A.51 to read: E35
- Form B(R1): Revise Specification Reference B.1 to read: E36
- Form B(R1): Revise Specification Reference B.2 to read: E36, E32
- Form B(R1): Revise Specification Reference B.5, B.6 and B.7 to read: E41
- Form B(R1): Revise Specification Reference B.8, to B.11 to read: E42
- Form B(R1): Revise Specification Reference B.12, and B.13 to read: E43
- Form B(R1): Revise Specification Reference B.14 to read: E44
- Form B(R1): Revise Specification Reference B.15 and B.16 to read: E45
- Form B(R1): Revise Specification Reference B.17 to read: E47
- Form B(R1): Revise Specification Reference B.18 and B.19 to read: E48
- Form B(R1): Revise Specification Reference B.20 to B.26 to read: E49
- Form B(R1): Revise Specification Reference B.27 and B.28 to read: E50
- Form B(R1): Revise Specification Reference C.52 to read: CW 3510-R9, E47
- Form B(R1): Revise Specification Reference C.53 to C.57 to read: E49
- Form B(R1): Revise Specification Reference C.59 and C.60 to read: E50
- Form B(R1): Revise Specification Reference C.61 and C.62 to read: CW 3650-R6, E39
- Form B(R1): Revise Specification Reference C.63 to read: E33
- Form B(R1): Revise Specification Reference D.5 to read: E61

Page numbering on some forms may be changed as a result.

The changes will also apply to Form B – Excel.

PART E – SPECIFICATIONS

- Revise: E28.2.8 (a) to read: Deliver and Install Portable Precast Traffic Barrier will be measured on a lump sum basis and paid for at the Contract Unit Price for the “Deliver and Install Precast Concrete Traffic Barrier”. The lump sum price will be for the total number of Portable Precast Traffic Barrier specified in E28.2.2(b), delivered and installed in accordance with this specification, approved by the Contract Administrator.
- Revise: E28.2.8 (b) to read: Relocate Portable Precast Traffic Barrier will be measured on a lump sum basis and paid for at the Contract Unit Price for the “Relocate and Install Precast Concrete Traffic Barrier”. The lump sum price will be for the total number of Portable Precast Traffic Barrier specified in E28.2.2(b)(i), relocate and installed in accordance with this specification, approved by the Contract Administrator.
- Revise: E28.2.8 (c) to read: Salvage Portable Precast Traffic Barrier will be measured on a lump sum basis and paid for at the Contract Unit Price for the “Salvage and Deliver Precast Concrete Traffic Barrier”. The lump sum price will be for the total number of Portable Precast Traffic Barrier specified in E28.2.2(b), salvaged and delivered in accordance with this specification, approved by the Contract Administrator.

Revise: E49.30.2 (a) to read: Trees

- (i) Manitoba Maple
- (ii) Basswood
- (iii) Trembling Aspen
- (iv) Discovery Elm
- (v) Prarier Horizen Alder
- (vi) Dropmore Linden

Revise: E52.3 (a) (iv) to read: Underbridge Pathway, Slope Paving and CIP Retaining Wall (Incl. Reinforcements, Shear Key, Sidewalk, and Backfill);

Revise: E52.5.3 (b) Table E52.1 Requirements for Hardened Concrete to read:

Table E52.1						
Requirements for Hardened Concrete						
Type of Concrete	Location	Nominal Compressive Strength MPa	Class of Exposure	Air Content Category	Max Aggregate Size	Minimum Post Residual Cracking Index
Type 1	Slope Paving, Retaining Walls, Pathways	35 @ 28 days	C-1	1	20 mm	
Type 2	Deck Slab, Bridge Traffic Barrier	35 @ 28 days	C-1	1	20 mm	R = 0.15
Type 3	Bridge Sidewalk Topping	35 @ 28 days	C-1	1	10 mm	
Type 4	Overhead Sign Structure Piles	35 @ 56 days	S-1	2	25 mm	

Revise: E52.5.15 (a) to read: An approved Type 1c Silane sealer shall be applied to all exposed new cast-in-place structural concrete surfaces; excluding the sidewalk surface along the pathway. Approved products shall be one of the following: is "Sika - Sikagard SN100" and/or "BASF - Master Protect H1000" or equal as accepted by the Contract Administrator, in accordance with B7 "Substitutes"

Revise: E52.5.17 (a) to read: Epoxy adhesive for bonding concrete to steel shall be one of the following approved products: Sternson ST432 or ST433, Dural Duralbond, Capper Capbond E, Sikadur 32 Hi-bond, Concessive 1001 LPL, Meadows Rezi-Weld 1000, or equal as accepted by the Contract Administrator, in accordance with, B7, "Substitutes".

Revise: E52.5.18 (a) to read: Epoxy grout shall be one of the following approved products: Sternson Talygrout 100, Sika Sikadur 42, CPD Epoxy Grout by Specialty Construction Products, Meadows Rezi-Weld EG-96, or equal as accepted by the Contract Administrator, in accordance with, B7, "Substitutes".

- Revise: E52.5.21 (a) to read: Flexible joint sealant for all horizontal, vertical, and sloping joints shall be guaranteed non-staining, grey polyurethane, accepted by the Contract Administrator and applied in strict accordance with the details shown on the Drawings and the Manufacturer's instructions including appropriate primers if recommended. Approved products are Vulkem 116 by Mameco, Sonolastic NP1 by Sonneborn, Sikaflex-1a by Sika, Bostik 915 by Bostik, or equal as accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.5.22 (a) to read: Fibre joint filler shall be rot-proof and of the preformed, nonextruding, resilient type made with a bituminous fibre such as Flexcell and shall conform to the requirements of ASTM D1751 or equal as accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.5.23 (a) to read: Precompressed foam joint filler shall be "Emseal BEJS System", satisfying the requirements of ASTM C711 and G155, or equal as accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.5.25 (a) to read: Low density Styrofoam shall be the type accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.5.27 (a) to read: Void form shall be supplied by Void Form International, or equal as accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.5.30 (a) to read: Miscellaneous materials shall be of the type specified on the Drawings or as accepted by the Contract Administrator, in accordance with B7, "Substitutes".
- Revise: E52.7.14 (a) (ii) to read: All existing concrete surfaces other than the bridge deck and traffic barriers which will conform to E54.7.4, "Partial Deck Preparation Works", locations are to be prepared to produce a rough, clean, free of laitance surface meeting the requirements of a CSP 4 concrete surface profile in accordance with the ICRI Guideline No. 310.2R-2013. The surface shall be kept clean until concrete placement.
- Add: E52.9.1 (d) Supplying and placing CIP Retaining Wall (Incl. Reinforcements, Shear Key, Sidewalk, and Backfill) shall be paid for at the Contract Unit Price per metre for the "CIP Retaining Wall(Incl. Reinforcements, Shear Key, Sidewalk, and Backfill)", measured as specified herein, performed in accordance with this Specification and accepted by the Contract Administrator, which price shall be paid in full for supplying all materials and for performing all operations herein described and all other items.
- Delete: E52.9.3
- Add: E53.3 (a) (vi) Remove existing aluminum rail panels and posts for stairway modifications.
- Add: E53.3 (a) (vii) Supplying, and installing new aluminum rail panels and posts for stairway modifications.
- Revise: E53.11.1 (a) to read: Supplying and Installing the aluminum pedestrian handrail/bicycle rail shall be paid for at the Contract Unit Price per metre for the "Items of Work" listed here below, measured as specified herein, performed in accordance with this Specification and accepted by the Contract Administrator, which price shall be paid in full for supplying all materials and for performing all operations herein described and all other items incidental to the Work.
- Add: E53.11.1 (b) Items of work:
- (i) Bridge Sidewalk New Top Rail and Posts
 - (ii) Stairway Modification New Panel and Posts
- Revise: E54.2 (a) (i) to read: City of Winnipeg By-Law No. 92/2010 Part 7 — Discharges of Wastewater
- Add: E54.3 (a) (viii) Removing and disposing of the existing Stairway concrete, Stairway landing concrete, and stairway panels and posts to the limits shown on the design drawings.

Revise: E54.9.1 (b) to read: Items of Work:

- (i) Existing Concrete Bridge Traffic Barrier
- (ii) Existing Aluminum Pedestrian Hand Railing
- (iii) Partial Depth Deck Hydro-Demolition
- (iv) Existing Concrete Slope Paving, Sidewalk and Fencing
- (v) Existing Stairway Concrete Landing
- (vi) Salvage items
- (vii) Removal of Abandoned Utility

Revise: E56.1 (c) to read: The requirements of E52 – Structural Concrete, and E51 – Supplying and Placing Reinforcing Steel, shall apply to Cast-in-Place Concrete Pile Foundations for Steel Overhead Sign Support Structures as applicable, except as otherwise supplemented in this section (E56).

Revise: E56.2 (a) (i) to read: E52 – Structural Concrete.

Revise: E56.2 (a) (ii) to read: E51 – Supplying and Placing Reinforcing Steel.

Add: E54.7.4 (a) (xi) Prior to the commencement of the removal operation by hydro-demolition, the Contractor shall ensure additional protection and signage is in place as specified in E.12, “Pedestrian Safety”.

Revise: E58.5 (a) to read: Remove all unsound concrete from the deck in the area of the hydro-demolition in accordance with specification E54 “Structural Removals” and and ICRI No. 310.2R-2013.

Revise: E58.5 (b) to read: Install galvanic anodes at 750mm o/c and as per the manufacturer’s recommendations, and as shown on drawings. Prior to installation, electrical continuity DC resistance of 1ohm or a potential difference of 1mV or less will be required along the entire length of the repair location.

Revise: E58.5 (d) to read: Apply bonding grout or epoxy bonding agent to all existing concrete surfaces that will be in contact with repair concrete. Extreme care will be taken to ensure no knicks, scraps, or dents are made to the re-coated reinforcing once re-coating is completed that would cause exposure to the existing reinforcing surface, and electrical continuity between the tie wire, steel reinforcing, and zinc anode are not lost due to re-coating of existing reinforcing material. Additional re-coating may be required upon inspection by the Contractor Administrator.

Revise: E60.1 (a) to read: This Specification shall cover the supply and installation of components associated with the expansion joint modifications works including cover plates, traffic barrier mounting units, anchors, adhesives, and grout as shown on the Drawings and as specified herein.

Add: E60.2 (a) Design Drawings 17M-02091-00-S-09-R0 to 17M-02091-00-S-11-R0.

Revise: E60.3 (a) to read: Removal of existing steel cover plates on sidewalk and roadway barrier at expansion joint locations as shown on the drawings.

Revise: E60.3 (b) to read: Installation of new steel sidewalk and roadway barrier armoring, cover plates and associated hardware at expansion joint locations as shown on the drawings.

Delete: E60.4

Delete: E60.5.6 (a)

Delete: E60.5.6 (b)

Delete: E60.5.6 (d)

Delete: E60.5.8

Delete: E60.5.13

Revise: E60.7.1 (a) to read: The Contractor shall submit to the Contract Administrator detailed Shop Drawings for the bridge deck expansion joint modification hardware that are stamped, signed and dated by a Professional Engineer registered or licensed to practice in the Province of Manitoba in accordance with E9. No fabrication shall commence until acceptance of the Shop Drawings from the Contract Administrator has been obtained.

Delete: E60.7.1 (c)

Delete: E60.7.1 (d)

Revise: E60.7.2 (a) to read: The Contractor shall install expansion joint modifications as shown on the Drawings and shall be responsible for the correct matching and seating of parts. The expansion joints shall be checked for accurate matching of sliding plates with the bridge deck expansion joints installed at the specified skews and crossfalls.

Delete: E60.7.4 (c)

Delete: E60.7.5

Delete: E60.7.6

Delete: E60.8

Delete: E60.8.1 (a)

Delete: E60.8.2 (a)

Delete: E60.8.2 (b)

Delete: E60.9.2

Delete: E60.9.3

Revise: E61.3 (a) (i) to read: Supply and placing granular base course under the pathway located underneath the east and west abutments;

Add: E61.3 (a) (iii) Supply and placing granular base course under the concrete pathway located along the slope;

Add: E61.3 (b) to read: Installation of new steel sidewalk and roadway barrier armoring, cover plates and associated hardware at expansion joint locations.

Delete: E61.6 (c)

Revise: E61.9 (a) to read: The backfilling required on the Drawings will not be measured and will be paid for at the Contract Lump Sum Price for the "Supply and Place Structural Backfill - Items of Work" listed here below, which price shall be payment in full for supplying all materials and for performing all operations herein described and all other items incidental to the Work included in this Specification and accepted by the Contract Administrator.

Revise: E61.9 (b) to read: Native soil compaction below and around the slope paving, walking pathway, and retaining wall, as indicated on the Drawings, shall be considered incidental to Structural Backfill.

Delete: E61.9 (c)

Revise: E61.9 (d) (ii) to read: Drainage Fill

DRAWINGS

Replace: 4-2018 _Drawing_17M-02091-00-C-12-R3 with 4-2018_Addendum_2_Drawing_17M-02091-00-C-12-R4

Replace: 4-2018 _Drawing_17M-02091-00-S-07-R0 with 4-2018_Addendum_2_Drawing_17M-02091-00-S-07-R1

Replace: 4-2018 _Drawing_17M-02091-00-S-08-R0 with 4-2018_Addendum_2_Drawing_17M-02091-00-S-08-R1

Replace: 4-2018 _Drawing_17M-02091-00-S-17-R0 with 4-2018_Addendum_2_Drawing_17M-02091-00-S-17-R1

Replace: 4-2018 _Drawing_17M-02091-00-S-18-R0 with 4-2018_Addendum_2_Drawing_7M-02091-00-S-18-R1

FORM B-EXCEL

Replace: 4-2018 Form B - Excel with 4-2018 Addendum 2 – Form B - Excel. The summary of changes incorporated in the replacement Form B-Excel are outlined in Part A – Bid Submission.