

**February 22, 2024****Addendum No. 03****File Reference Number: RFP 2024 001****Title: Design, Supply, Installation, Testing and Commissioning of all Materials and Equipment required for the Grade Crossing Warning System Upgrades****RE: Clarifications/Questions**

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Please refer to the following information / clarifications:

**Part 1 Request for Proposals – Section 4.3 – Agreement to Bond****Item 1:** Please confirm if ONTC accepts Performance and Payment Bonds to be renewed annually?**Answer:** No, ONTC will not accept the Performance and Payment Bonds to be renewed annually.**Item 2:** Please confirm the contract amount that these bonds will be based on.**Answer:** The bonds should reflect 50% of the expected contract price for the full duration of the contract. This amount will be confirmed with the Successful Respondent. Please note that ONTC will be releasing these bonds in phases following the expiration of the one (1) year warranty period for each crossing completed by the Successful Respondent.**Part 1 Request for Proposal – Section 8.1 – Negotiation and Finalization of the Agreement****Item 3:** Can ONTC please confirm the insurance certificate limit for this project?

**Answer:** Please note that the certificate of insurance for this project should be aligned with the requirements of the CCDC 41. Please find the CCDC 41 attached to this Addendum at Appendix A.

**Part 2 Request for Proposals – Summary of Requirements – Schedule 2-A – RFP Data Sheet**

**Item 4:** If contractors can provide quantity discounts based on the number of crossings completed each year how would this be factored into the evaluation?

**Answer:** ONTC is only able to provide an estimation on the number of crossings that will be completed for each year of the contract. As a result, ONTC will not be applying quantity discounts for the purposes of the evaluation process.

**Part 4 Request for Proposals – Form of Proposal – Proposal Form 1-A – Schedule A Schedule of Quantities and Prices:**

**Item 5:** Based on the list of crossings provided, there appears to be a significant amount of locations which require the addition of gates (“add gates”). Are these existing flasher locations that have been upgraded with XP4 bungalows recently? Please clarify how Schedule A will apply to these locations as Item 1 includes replacement of the bungalow and the addition of gates.

**Answer:** Some of the existing flasher locations have been upgraded with XP4 bungalows, but not all of them. The sites requiring less or more work outside the typical crossing upgrades will have to be estimated separately.

**Item 6:** For Item 1 and Item 2 in the Schedule of Quantities and Prices should the unit of measure be changed to “Each” for 1.2 to 1.7 and 2.2 to 2.7 as ONTC is requesting a unit price for design, supply, installation, and commissioning of one (1) crossing w/gates or commission of one (1) crossing with flashers based on the template provided.

**Answer:** ONTC has now updated Proposal Form 1-A – Schedule of Quantities and Prices. Please replace the Proposal Form 1-A in the RFP package with the Proposal Form 1-A attached to this Addendum at Appendix B.

**Item 7:** For Item 2, should contractors include pricing for the additional lights – based on the template location?

**Answer:** Yes.

**Item 8:** Item 3 in the Schedule of Quantities and Prices:

Note: Please refer to the additional work section in the Pricing Approach attached to this Addendum at Appendix C.

- (a) 3.2 Factory Testing (FAT) per bungalow: Unit of measure should be changed to "Each". What would this line item be used for since Item 1 includes pricing for FAT.

**Answer:** ONTC has now removed line 3.2. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

- (b) 3.3 Testing & Commissioning per site with gates: Unit of measure should be changed to "Each". What would this line item be used for since Item 1 includes pricing for Testing & Commissioning.

**Answer:** ONTC has now removed line 3.3. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

- (c) 3.4 to 3.8: Please clarify if these items are to include supply of materials or only Labour & Equipment (i.e. should Item 3.8 include supply of the cantilever structure and/or foundation?). Unit of measure should be changed to "Each".

**Answer:** ONTC has now removed lines 3.4 through 3.8. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

- (d) 3.12 to 3.15: As per Part 4, Proposal Form 1-A confirm that cable pricing is material only. Unit of measure should be changed to "Meter".

**Answer:** ONTC has now changed the unit of measure to meters. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

- (e) Supply of Additional Materials: Outside of cable & fill (priced in 3.4, 3.12 to 3.15) how will materials in addition to those included in the BOM templates be handled? For example, if a crossing requires a DC island or additional XTI-1S modules based on the approved design would this be considered a change order?

**Answer:** Correct, a change order identifying the items outside the typical crossing upgrade will be needed each time a crossing requires less or more work / material.

(f) Please consider adding the following additional items:

1. Additional bonding for crossing approach (Each = 1 Rail Joint Bond). Nothing is indicated in Part 4, Form 1-A related to bonding assumptions.

**Answer:** Bonding should be included in Items 1 and 2. If excessive bonding is required such as new approaches it can refer to the additional work section in the Pricing Approach attached to this Addendum at Appendix C.

2. Supply and installation of additional Flasher Assemblies 1-Way (LEDs & crossarms).

**Answer:** This has been added to the updated Proposal Form 1-A attached to this Addendum in Appendix B

3. Supply and installation of additional Flasher Assemblies 2-Way (LEDs & crossarms).

**Answer:** This has been added to the updated Proposal Form 1-A attached to this Addendum at Appendix B.

4. Supply and installation of additional dolly arm for Flasher Assemblies.

**Answer:** This has been added to the updated Proposal Form 1-A attached to this Addendum at Appendix B.

5. Supply and re-wiring/tagging of existing cantilever structure internal wiring.

**Answer:** This has been added to the updated Proposal Form 1-A attached to this Addendum at Appendix B.

(g) Confirm that any pre-emption or AAWS work will be completed by Others.

**Answer:** This would be considered as additional work by the contractor or could be subcontracted.

(h) Within lines 2 through 11 there are many different variables within each item that could be assumed for each line.

For example on line 5 is the contractor to price only the labour for the installation of the foundation and bungalow or is the contractor to supply these items as well? For item 8 is the contractor to supply and install a 40' cantilever along with the foundation? If so, what configuration of flashing lights is to be included on this cantilever and should the cantilever allow for the installation of a gate mechanism?

**Answer:** ONTC has now removed lines 2 through 11. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

(i) Can ONTC please clarify within each line (2-8) the full scope of work that is to be included?

**Answer:** ONTC has now removed lines 2 through 8. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

(j) For lines 9 and 10 it is very difficult to price 1M as the crews will report to site for the day and could complete 50M or 300M depending on a variety of factors.

**Answer:** ONTC has now removed lines 9 and 10. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

(k) For line 11 most vac truck contractors have a minimum of 4 hours. Would ONTC consider a cost plus approach to this work?

**Answer:** ONTC has now removed line 11. Please reference the updated Proposal Form 1-A attached to this Addendum at Appendix B.

**Item 9: Pricing Approach**

Please note that ONTC has prepared a Pricing Approach reference document. This information is provided to clarify the expectations for pricing for specific crossings. Please find Pricing Approach attached to this Addendum at Appendix C.

**Part 4 Request for proposals – Form of Proposal – Proposal Form 10 – Schedule of Progress Payments**

**Item 10:** Please confirm if we have to create this form as per the amount in Form 1 or we should assume the pricing as per the annual quantity requirement as the scope of work (about 40 locations over 3 years)?

**Answer:** ONTC would ask that Proposal Form 10 – Schedule of Progress Payments be completed to reflect the full scope of work (about 40 locations over 3 years). The progress payments should correspond with the Gantt chart schedule that is provided as part of Proposal Form 9 – Schedule and Proposed Approach. For the sake of pricing, please assume that all required crossings will be gated crossings.

Regards,

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# APPENDIX A

**CCDC 41**  
**CCDC INSURANCE REQUIREMENTS**

**PUBLICATION DATE: December 14, 2020**

1. General liability insurance shall be with limits of not less than \$10,000,000 per occurrence, an aggregate limit of not less than \$10,000,000 within any policy year with respect to completed operations, and a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Form 2100 (including an extension for a standard provincial and territorial form of non-owned automobile liability policy) and IBC Form 2320. To achieve the desired limit, umbrella or excess liability insurance may be used. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
2. Automobile liability insurance in respect of vehicles that are required by law to be insured under a contract by a Motor Vehicle Liability Policy, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property, covering all vehicles owned or leased by the *Contractor*. Where the policy has been issued pursuant to a government-operated automobile insurance system, the *Contractor* shall provide the *Owner* with confirmation of automobile insurance coverage for all automobiles registered in the name of the *Contractor*.
3. Manned Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft (if used directly or indirectly in the performance of the *Work*), including use of additional premises, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property including loss of use thereof and limits of not less than \$10,000,000 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the *Owner*.
4. Unmanned aerial vehicle liability insurance with respect to owned or non-owned aircraft (if used directly or indirectly in the performance of the *Work*), shall have limits of not less than \$5,000,000 per occurrence or accident for bodily injury, death and damage to property or such amounts as required by any applicable law or regulation.
5. "Broad form" property insurance shall have limits of not less than the sum of 1.1 times *Contract Price* and the full value, as stated in the *Contract*, of *Products* and design services that are specified to be provided by the *Owner* for incorporation into the *Work*, with a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Forms 4042 and 4047 or their equivalent replacement. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
6. Boiler and machinery insurance shall have limits of not less than the replacement value of the permanent or temporary boilers and pressure vessels, and other insurable objects forming part of the *Work*. The insurance coverage shall not be less than the insurance provided by a comprehensive boiler and machinery policy including hot testing and commissioning.
7. Contractors' equipment insurance coverage written on an "all risks" basis covering *Construction Equipment* used by the *Contractor* for the performance of the *Work*, shall be in a form acceptable to the *Owner* and shall not allow subrogation claims by the insurer against the *Owner*. Subject to satisfactory proof of financial capability by the *Contractor* for self-insurance, the *Owner* may agree to waive the equipment insurance requirement.
8. Contractors' Pollution liability insurance shall have limits of not less than \$5,000,000 per occurrence for bodily injury, death and damage to property.

Association of  
Canadian  
Engineering  
Companies

Canadian  
Construction  
Association

Construction  
Specifications Canada

The Royal Architectural  
Institute of Canada



# APPENDIX B

**PART 4 – FORM OF PROPOSAL  
PROPOSAL FORM 1-A  
PROPOSAL SUBMISSION FORM**

Please refer to the attached Schedule A – Schedule of Quantities and Prices. This form must be completed as part of the proposal.

ONTC is looking for a total of two lump sum prices for crossing upgrades based on both the design and bill of material templates provided along with each line item requested for 2024, and optional years 2025 and 2026. Once the contract is awarded, a plan and price per each specific location guided by the templates will be established and approved by ONTC prior to the crossing upgrade. See list of locations for future reference.

**Item 1**

Typical ONTC Crossing Upgrade with gates based on the design and BOM template.

Assumptions:

- Work Location – 555 Oak Street E, North Bay, ON, P1B 8E3
- 120 m of 14c Cable
- 120 m of 2C TW#6
- 40 m of Teck Cable
- 5 loads of 22-ton fill
- 60 mph as a design speed

**Item 2**

Typical ONTC Crossing Upgrade without gates based on the design and BOM template.

Assumptions:

- Work Location – 555 Oak Street E, North Bay, ON, P1B 8E3
- 120 m of 7c Cable
- 120 m of 2C TW#6
- 40 m of Teck Cable
- 5 loads of 22-ton fill
- 60 mph design speed

**Item 3**

Additional items if/when required:

Construction

- Mobilization from North Bay to the work site, and from site to site afterward (One-time fee for the crew and equipment to travel to a new location, non-reoccurring) – per Kilometer

## Material

- 7c Cable per meter (for crossing without gates)
- 14c Cable per meter (for crossing with gates)
- 2 c TW#6 per meter
- Teck cable per meter

## Optional Work: (no estimates required as this time)

- Supply and install seven (7) radio control switches. ([ML-18 - Advanced Rail Systems](#))
- Supply and install one (1) wheel impact load detector. [Wheel Impact Load Detector \(WILD\) \(nagoryfoster.com\)](#)

**SCHEDULE A - Schedule of Quantities and Prices**

**ONTC 2024 - 2026 upgrade for a Typical ONTC crossing upgrade**

Unit Prices listed in this Schedule are based on the use of Specified Materials in the BOM template or equivalent. Unit Price shall include all overhead, profit, handling, and all other related charges and shall hereinafter be referred to as Contract Unit Prices. All of the prices listed below are to be included in the Contract Price.

**The contract prices will be used as a guide against all site-specific prices once the locations are established between the contractor and ONTC.**

<u>Item 1</u>	<u>Description</u>	<u>Section and/or Drawing No.</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price 2024</u>	<u>Unit Price 2025</u>	<u>Unit Price 2026</u>
<b>Crossing Upgrade Work</b>							
<u>Typical ONTC crossing upgrade with gates.</u>							
1	Mobilization & Demobilization to and from North Bay (one time price per work season )	Section 01 52 00	L.S.	1	\$	\$	\$
2	Construction Facilities	Section 01 52 00	Each	1	\$	\$	\$
3	Environmental Protection	Section 01 56 10	Each	1	\$	\$	\$
4	Design based on template provided	Schedule 3-A-2 reference drawing	Each		\$	\$	\$
5	Supply of all signal equipment required to upgrade a Crossing Warning Signal Assembly (LED light units, bell(s), crossing warning sign, masts & and foundations and gates), Crossing Control Equipment, Signal Housing, battery cells, and all other materials.	Section 01 11 00, Section 01 42 19, Section 34 42 01, Section 34 42 02, Section 34 42 03, Section 34 42 06, Section 34 42 13, Section 34 42 23, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM, Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$
6	Installation, programming, testing and commissioning of all signal equipment associated with the design of the Crossing Upgrades.	Section 01 11 00, Section 01 14 00, Section 01 35 00, Section 01 42 19, Section 31 24 11, Section 34 05 05, Section 34 42 01, Section 34 42 02, Section 34 42 03, Section 34 42 04, Section 34 42 05, Section 34 42 06, Section 34 42 13, Section 34 42 23, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM, Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$
7	Supply and Install electrical equipment for the Crossing Upgrades.	Section 26 05 00, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs (Hydro), Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$
<b>Typical ONTC crossing upgrade with gates.</b>					\$	\$	\$
<b>Harmonized Sales Tax (HST)</b>							
<b>TOTAL PROPOSAL PRICE</b>							

<u>Item 2</u>	<u>Description</u>	<u>Section and/or Drawing No.</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price 2024</u>	<u>Unit Price 2025</u>	<u>Unit Price 2026</u>
<b>Crossing Upgrade Work</b>							
<u>Typical ONTC crossing upgrade without gates.</u>							
1	Mobilization & Demobilization to and from North Bay (one time price per work season )	Section 01 52 00	L.S.	1	\$	\$	\$
2	Construction Facilities	Section 01 52 00	Each	1	\$	\$	\$
3	Environmental Protection	Section 01 56 10	Each	1	\$	\$	\$
4	Design based on template provided	Schedule 3-A-2 reference drawing	Each		\$	\$	\$
5	Supply of all signal equipment required to upgrade a Crossing Warning Signal Assembly (LED light units, bell(s), crossing warning sign, masts & and foundations), Crossing Control Equipment, Signal Housing, battery cells, and all other materials.	Section 01 11 00, Section 01 42 19, Section 34 42 01, Section 34 42 02, Section 34 42 03, Section 34 42 06, Section 34 42 13, Section 34 42 23, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM, Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$
6	Installation, programming, testing and commissioning of all signal equipment associated with the design of the Crossing Upgrades.	Section 01 11 00, Section 01 14 00, Section 01 35 00, Section 01 42 19, Section 31 24 11, Section 34 05 05, Section 34 42 01, Section 34 42 02, Section 34 42 03, Section 34 42 04, Section 34 42 05, Section 34 42 06, Section 34 42 13, Section 34 42 23, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM, Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$

Item 2	Description	Section and/or Drawing No.	Unit	Estimated Quantity	Unit Price 2024	Unit Price 2025	Unit Price 2026
7	Supply and Install electrical equipment for the Crossing Upgrades.	Section 26 05 00, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs (Hydro), Assumptions in Part 4 - Form 1A	Each	1	\$	\$	\$
<b>Typical ONTC crossing upgrade with gates.</b>					\$	\$	\$
<b>Harmonized Sales Tax (HST)</b>							
<b>TOTAL PROPOSAL PRICE</b>							

Item 3	Description	Section and/or Drawing No.	Unit	Estimated Quantity	Unit Price 2024	Unit Price 2025	Unit Price 2026
<b>Crossing Upgrade Work</b>							
<b>Additional Line items if required</b>							
1	Mobilization from North Bay to the work site, and from site to site afterward (One-time fee for the crew and equipment to travel to a new location, non-reoccurring) - per Kilometer	Section 01 52 00	KM	1	\$	\$	\$
2	7c cable per meter	Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM	M.	1	\$	\$	\$
3	14c cable per meter	Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM	M.	1	\$	\$	\$
4	2c cable TW6 per meter	Schedule 3-A-2 reference drawing, 3-A-3 reference photographs, 3-A-4 BOM	M.	1	\$	\$	\$
5	Tech #2AW G/3C Teck90 per meter	Section 26 05 00, Schedule 3-A-2 reference drawing, 3-A-3 reference photographs (Hydro)	M.	1	\$	\$	\$
6	Training and Familiarization of crossing predictor and gate mechanism (up to 10 maintainers)	N/A	L.S.	1	\$	\$	\$
<b>Total of Line Items</b>					\$	\$	\$
<b>Harmonized Sales Tax (HST)</b>							
<b>TOTAL PROPOSAL PRICE</b>							

Item 4	Description	Section and/or Drawing No.	Unit	Estimated Quantity	Unit Price 2024	Unit Price 2025	Unit Price 2026
<b>Optional Work</b>							
1	Supply and Install radio control switches (DTMF)	<a href="#">ML-18 - Advanced Rail Systems</a>		7	\$ N/A	\$ N/A	\$ N/A
2	Supply and Install Wheel Impact Load Detector	<a href="#">Wheel Impact Load Detector (WILD) (nagoryfoster.com)</a> , <a href="https://www.progressrail.com/en/Segments/Infrastructure/Signaling/Products.html">https://www.progressrail.com/en/Segments/Infrastructure/Signaling/Products.html</a>		1	\$ N/A	\$ N/A	\$ N/A
<b>Total</b>					\$ N/A	\$ N/A	\$ N/A
<b>Harmonized Sales Tax (HST)</b>							
<b>TOTAL PROPOSAL PRICE</b>							

## APPENDIX C

## **\*\*Pricing Approach:\*\***

**Note:** This information is provided to clarify the expectations for pricing for specific crossings.

1. **\*\*Site-Specific Pricing:\*\*** The pricing for work identified in items 1 and 2 of the Scope of Work shall be based on site-specific considerations relating to the specific crossing and shall be agreed upon by both parties before the commencement of the work on the crossing. This pricing will encompass the supply and installation of Materials and labour as outlined in the Contract Documents.
2. **\*\*Additional Work:\*\*** Any work outside the scope of items 1 and 2 required for a crossing shall be considered additional work. The pricing for additional work shall follow a cost-plus approach with estimates of the cost provided by the Contractor and approved by the Owner before commencement. The overhead, profit and additional markup shall be not more than 8% of the cost.
3. **\*\*Reductions:\*\*** Any adjustments to the Scope of Work for a crossing that result in a reduction in costs shall be implemented and be included in the estimate. If the Work on a crossing requires fewer resources or materials than were included in determining the estimate for the work on the crossing, the reduction in costs shall be reflected in the Contractor's application for payment for the crossing.
4. **\*\*Approval Process:\*\*** All pricing adjustments for a crossing, whether for additional work or reductions, if known, shall be set out in a Change Order and approved by both parties prior to the Work on a crossing commencing.
5. **\*\*Documentation and Invoicing:\*\*** The Contractor shall maintain accurate records of all costs incurred for additional work and reductions, including receipts, invoices, and labour records. Applications for payment for additional work shall be submitted in accordance with the approved Change Order. Reductions shall be shown as a credit in the application for payment.

By incorporating these provisions into the Contract Documents, both parties can ensure transparency and fairness in adjustments to the Contract Price throughout the duration of the Project.