



**THE CORPORATION OF THE CITY OF WINDSOR
OFFICE OF THE CITY SOLICITOR**

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**ADDENDUM NO. 1
TENDER NO. 162-20
HURON CHURCH ROAD RECONSTRUCTION – TECUMSEH ROAD WEST TO COLLEGE
AVENUE**

December 18, 2020

This addendum amends and forms part of the Tender Documents. The bidder shall insert the addendum behind the cover page of the Tender Documents.

REVISION TO SPECIFICATIONS:

SPECIAL INFORMATION

1) Delete item 19 'CONSTRUCTION STAGING AND OPERATIONAL CONSTRAINTS' and replace it with the following:

19.0 CONSTRUCTION STAGING AND OPERATIONAL CONSTRAINTS

The Bidder shall be aware that the intent of this Contract is to complete all work, up to and including restoration, within the stipulated number of Working Days.

Due to the significant traffic volumes along this corridor and the impact to the international border crossing, it is the City's intent that this project be completed as expeditiously as possible.

It is the intent of this contract that construction takes place **24 hours per day and 7 days per week continuously until the project reaches contract completion as defined in the Construction Act. Therefore, following the commencement date every calendar day shall be considered a working day, with the only exceptions being statutory holidays and those exceptions noted in the Instructions to Bidders.** The City of Windsor will arrange for the necessary by-law exemptions.

It is the intent of this contract to complete the project in two main stages including the west half and east half of Huron Church Road respectively. The remaining road works (at crossover locations and others) shall be completed after the above stages and as approved by the City. The cost for any and all traffic control set up, maintenance and take down not shown on the drawings shall be included in the schedule of unit prices, under the respective item. Significant coordination effort will be required on behalf of the Contractor to coordinate the following with the City of Windsor:

- Permanent pavement markings;
- Removal and installation of traffic signals;
- Temporary pedestrian signals;
- Regulatory signage;
- Other coordination efforts with the City as may be required to successfully complete the project.
- Maintain full operation of all travel directions at the College intersection
- Consistent minimum two (2) lanes of travel southbound and one (1) travel lane northbound for the duration of the project

Coordination will also be required with Enwin Power, Enwin Water and other utilities as may be required.

Lastly, the Contractor may be required to coordinate with the Ambassador Bridge and Ministry of Transportation of Ontario.

The Bidder shall note that this project is subject to provincial funding. An executed contract with the successful bidder must be provided to the Province by the City by **December 31 2020**, in order to finally secure the funding. **Construction will not begin before April 6, 2021 without written authorization from the City.**

These Contract requirements shall be carefully considered by Bidders in establishing the unit prices for this work as it relates to the number of crews, equipment and trucks required.

SPECIAL PROVISIONS

1) Delete Special Provision 17 '**CONCRETE PANEL REPAIRS (PROVISIONAL)**' and replace it with the following:

17.0 CONCRETE PANEL REPAIRS (PROVISIONAL)

General

City of Windsor Standard Specifications S-7 and S-9 and OPSS.MUNI form 360 shall apply and govern except as amended and extended herein.

Due to potential future grant funding, this work shall be provisional. If the City of Windsor is successful in the grant process this work will be largely removed from the scope of work for this contract. However, should the City of Windsor be unsuccessful in obtaining grant funding, the intent of this contract is to complete the quantities of concrete panel repairs identified in the Schedule of Unit Prices.

Scope of Work

Where indicated on the site by the city of Windsor, the Contractor shall provide concrete panel repairs in the form of the following protocols:

Panel Replacement - Remove panel(s) and follow panel replacement protocol defined in OPSD 560.010 for concrete repair greater than 4m in length.

Joint Repair - Saw-cut and removed damaged transverse joints and follow repair protocol defined in OPSD 560.010 for concrete repair 4m or less in length.

Concrete Patching - Remove all loose material in the damaged section of the concrete pavement, to expose underlying sound concrete, and repair damaged sections of concrete with engineered repair mortar (Sikaquick 1000 or approved equivalent), in strict accordance with the manufacturer's instructions and OPSD 560.04.

Median Repair - Saw-cut and remove all damaged sections of the median barrier, to the nearest construction joint. Saw-cut and remove the median surface finish as required to accommodate the repair, all median surfacing removed shall be replaced with matching materials and finishes. The removed section of the median shall be replaced in accordance with the detail provided in the contract drawings.

Measurement

Measurement for panel replacement and joint repair shall be made in units of square meters. Measurement for concrete panel patching shall be made in cubic meters. Measurement of median repair shall be made in units of lineal meters.

Payment

Payment at the Contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work including traffic control, saw cutting, removal, dowel bars, tie bars and load transfer devices, placement of new concrete, curing and jointing.

Where the existing granular base is disturbed, the removal of loosened material, compaction of the surface, and replacement with an additional depth of concrete shall be at no extra cost to the Owner. The removal and replacement of unacceptable concrete shall be at no extra cost to the Owner.

2) Delete Special Provision 36 'STREETLIGHTING AND TRAFFIC INFRASTRUCTURE' and replace it with the following:

36.0 STREET LIGHTING AND TRAFFIC INFRASTRUCTURE

Codes and Standards

The Contractor shall complete the installation in accordance with the Ontario Electrical Safety Code Latest Edition, including local amendments and by-laws, Federal, Provincial and Municipal Codes, and applicable ULC Standards.

The Contractor shall complete overhead and underground systems in accordance with CAN/CSA-C22.3 No. 1-M87 except where specified otherwise.

Under no circumstances will the application of the referenced codes and standards reduce the standards established by the drawings and specifications herein.

Permits, Fees and Inspection

The Contractor shall note that all changes to existing and new street lighting will require Electrical Safety Authority inspection. All fees in coordination with this inspection to be covered by the Contractor.

The Contractor shall submit to the Electrical Safety Authority and Supply Authority the necessary number of drawings and specifications for examination and approval prior to commencement of work and pay associated fees.

The Contractor should note that the City of Windsor will provide drawings and specifications as required by the Electrical Safety Authority and Supply Authority at no cost.

The Contractor shall notify the City of Windsor of changes required by the Electrical Safety Authority or Supply Authority prior to making changes.

The Contractor shall arrange for and pay for the timely inspection of the work by authorities having jurisdiction.

The Contractor shall furnish final Certificates of Acceptance from the Electrical Safety Authority having jurisdiction on completion of work to the City of Windsor and include copies in the Operation and Maintenance Manual.

Scope of Work

The scope of this work includes the supply and install all street lighting infrastructure and traffic infrastructure, the removal and/or relocation of existing infrastructure, and the maintenance and operation of temporary street lighting during construction. Work shall be completed in accordance with the Contract Drawings, the requirements of ENWIN Utilities and the requirements of the City of Windsor's Traffic Operations Division. Refer to drawings for a complete description of the work.

The Contractor shall supply all materials including but not limited to wiring, electrical hook-up, testing, restoration and inspection as required to provide an operational street lighting system as shown on the Contract Drawings and specified herein.

The Contractor shall submit all shop drawings, catalogue cut sheets, etc. for all street lighting equipment as indicated below for approval prior to ordering materials.

OPSS shall govern for all sections of this item, unless amended or extended herein.

Specifics

1. Street Light Conduit

The Contractor shall supply and install underground heavy duty rigid PVC Schedule 40 conduit in accordance with CSA Standard C22.2 - No. 211.2 including directional boring, excavation, backfilling and including all fittings (bends, couplings, adaptors, end plugs, etc., in accordance with CSA Standard C22.2 - No. 85) and installation of twisted nylon pull wire for installation of wiring. This item shall include conduit drops required on the existing hydro pole at the new power supply locations. The installation depth of streetlight and traffic conduits shall be minimum 0.9m.

The Contractor shall use directional bore method for the conduit installation at 1235 Huron Church Road.

This Contractor shall supply and install polyethylene conduit and fittings to accommodate wiring at each street light pole.

The Contractor is responsible for supplying and installing electrical conduit, in coordination with ENWIN Utilities.

Joint trench may be used in locations where street lighting conduit and traffic conduit are installed in the same area. Traffic and Street Lighting conduits are not to share manholes.

Conduits shall be as indicated on the drawings.

Measurement

Measurement shall be made in linear meters for this item.

Payment

Payment shall be made at the Unit Price bid per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

2. Electrical Non-Metallic Tubing (ENT) for streetlight wiring inside Traffic Pole

The Contractor shall supply and install 20mm electrical non-metallic tubing in accordance with CSA Standard C22.2 - No. 227.1 (Latest Revision). ENT will be used inside a traffic pole for streetlight wirings at Huron Church/Tecumseh Road intersection.

Measurement

Measurement shall be made in linear meters for this item.

Payment

Payment shall be made at the Unit Price bid per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

3. Street Light Wiring

The Contractor, under this item, shall supply and install all the necessary wire including all accessories required to complete the wiring of the proposed luminaires, as indicated on the drawings, to the service location.

Underground wiring for luminaires shall be single conductor, stranded copper, low voltage cable, rated 600 volts. Low voltage wire shall be Type RWU 90 - cross link meeting the requirements of CSA Standard C22.2, No. 38.

All luminaire wire shall be installed in the proposed underground conduit as shown on the Contract Drawings.

For streetlight poles, splices in the luminaire wire shall be made in the pole handholes and for the traffic poles all splices shall be made in a junction box. The Contractor shall ensure that all equipment is adequately grounded. The Contractor shall maintain existing traffic and streetlight wirings at Girardot Road/Huron Church and College Avenue/Huron Church intersections.

At Girardot Road/Huron Church Intersection, the Contractor shall install overhead wiring #4 triplex from EHP-2 to a streetlight (29) on a traffic pole as shown in the contractor drawings and installation shall meet the requirements of CSA standards. The Contractor shall follow OESC Bulletins for bonding requirements of a streetlight which is installed on a traffic pole. The Contractor shall coordinate with EnWin Utilities for the connections.

The luminaire wire shall be brought back and connected to the circuit breaker at the service location indicated on the Contract Drawings.

The riser wires inside the poles and in the mast arms shall be included in this item and shall be connected to the external wiring circuit in the underground conduit by means of one single pole waterproof fuse holder Elastimold or Fusetek with one 10 amp midget ferrule fuse, Buss Type

“KTK” or approved equal. A fuse holder shall be installed inside the pole and shall be secured to the connector clip supplied in the pole.

The luminaire wire shall be brought back and connected to the circuit breaker at the service location indicated on the Contract Drawings.

Measurement

Measurement shall be made in linear meters for this item.

Payment

Payment shall be made at the Unit Price bid per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

4. Grounding

The Contractor shall supply and install all ground wiring including all connections, fittings required in conduits and on poles for a complete installation.

The Contractor shall supply and install ground rods and ground plate including all connections, fittings required at the supply cabinets and at poles as indicated on the Contract Drawings.

Grounding is subject to inspections by the local authority and ESA, the Contractor shall pay all applicable fees and coordinate.

Measurement

Measurement shall be made in linear meters for the grounding wire.

Measurement for the supply and installation of the ground rods & ground plates shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid and per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

5. Electrical Road Crossings

OPSS Form 603 shall apply and govern except as amended or extended herein.

The Contractor shall supply and install underground heavy duty rigid PVC Schedule 40 conduit in accordance with CSA Standard C22.2 - No. 211.2 including directional boring, excavation, backfilling and including all fittings (bends, couplings, adaptors, end plugs, etc., in accordance with CSA Standard C22.2 - No. 85) and installation of twisted nylon pull wire for installation of wiring.

Road crossings shall be concrete encased and directional bored as shown in the contract drawings. All road crossing shall include a spare 53mm conduit capped at either end with pull wire. Concrete for road crossing shall be included in this item.

The Contractor is responsible for supplying and installing electrical conduit.

Measurement

No measurement shall be made for this item.

Payment

Payment shall be made at the Lump Sum Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

6. Street Light Pole Bases

The Contractor shall supply and install street light pole bases as indicated in the Contract Drawings. Pole bases shall be as per OPSD 2200.01. This item shall include the full material and installation including but not limited to the concrete, rebar, sonotubes and anchor assembly. The Contractor shall be responsible to ensure the bolt circle diameter of the pole and the anchors match.

Measurement

Measurement shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

7. Junction Box

OPSS Form 913 shall apply and govern except as amended or extended herein.

The Contractor shall supply and install polymer concrete 12"x12" junction box (Manufacturer-Synertech or approved equal). Contractor shall verify the location of junction boxes by the City of Windsor before the installation. The Cover shall have identification markings indicating "STREET LIGHTS" OR "ELECTRICAL"

Measurement

Measurement shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

8. Roadway Streetlight Luminaire

The Contractor shall supply and install new street lighting fixtures as follows:

Fixtures - 120 volt, LED Roadway Lighting NXT series as specified on the Contract Drawing, complete with ALR (tyco) model SST-PV (blue cover) or LRL65233-LF photocell. Refer to Luminaire Schedule for the fixture catalogue numbers.

The Contractor shall modify existing NXT 72M fixtures driver settings of SL#44,46,47,48,49,50 from 700mA to 350mA as shown in the Contract drawings.

The Contractor shall relocate existing fixture SL#70 on a new concrete base as shown in the Contract drawings.

Contractor shall contact the manufacturer for the revised stickers. Stickers shall be as per the City of Windsor's standards.

Measurement

Measurement for the luminaires shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

9. Street Light Poles and Mast Arms

The Contractor shall supply and install street light poles as indicated in the Contract Drawings. Poles shall be 10.5 m, base mounted, aluminium poles, to meet OPSS.PROV 2452 and OPSD 2432.010.

The Contractor shall supply and install new mast arms complete with brackets as follows:

Mast Arm - 3.0 m Aluminium Elliptical Mast Arm

The Contractor shall relocate existing mast arms on SL#70 as specified on the Contract Drawings.

The Contractor shall re-use existing mast arms on traffic poles at Huron Church Rd/Tecumseh Rd W intersection

Measurement

Measurement shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

10. Street Lighting Power Supply

The Contractor shall supply and install including make connections at all street lighting power supply locations. Power supplies shall be 120 volt circuit breaker panels, service entrance rated 3R metal enclosures complete with 20A-1P circuit breakers, quantity as noted on the Contract Drawings with a 22,000A interrupting rating.

The Contractor shall provide #6AWG wiring coiled above the power supply with a length of 5m for ENWIN Utilities to make connections.

The Contractor shall coordinate the connection of street lights with ENWIN Utilities at the supply locations shown on the Contract Drawings.

Measurement

Measurement shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

11. Electrical Removals

This item includes the removal of existing infrastructure as indicated on the Contract Drawings.

Pole bases and manholes shall be completely removed and disposed of or abandoned in place wherever specified in the contract drawings. Existing poles shall be removed and wiring in existing conduit shall be pulled out and disposed of. Conduits may be abandoned in place.

For luminaires and mast arms, an Engineer from the City of Windsor-Traffic operation will do an assessment before they disposed of. If they are in good condition then it should be returned to the City of Windsor. The Contractor shall make arrangements to deliver removed fixtures & mast arms to the City of Windsor's location (Location to be declared).

Disposal fees shall be included in this item.

Measurement

No measurement shall be made for this item.

Payment

Payment shall be made at the Lump Sum Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

12. Temporary Street Lighting

The Contractor will be required to maintain adequate lighting levels throughout construction. It is anticipated that the existing lighting can be maintained through different stages of construction, with minor wiring changes being required. The Contractor shall be responsible for re-configuring wiring and power supplies based on field wiring. Attached schematics (Appendix A) can be used as a reference to have a better understand of existing streetlight wirings on Huron Church Road. It will be the Contractor's responsibility to coordinate with EnWin before proceeding with any

temporarily street lighting work and not solely rely on the attached schematics.

The Contractor will be required to coordinate with the City of Windsor and EnWin to facilitate this work. The Contractor will complete the work; EnWin will only be responsible for connection/termination at the power source. This item is intended to cover this work including costs incurred by the Contractor to coordinate with the City of Windsor and EnWin and to stage their work to accommodate temporary street lighting.

Measurement

No measurement shall be made for this item.

Payment

Payment shall be made at the Lump Sum Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

12a. Electrical Infrastructure Installation for Cross Border RTMS

The Contractor shall supply and install an additional one 53mm PVC Schedule 40 conduit in accordance with CSA Standard C22.2 - No. 211.2 from EHP-1 to pole#82 & EHP-3 to Pole#42 respectively. Additional conduit proposed will be in the same trench of streetlight conduits which leads to an additional conduit at road crossing RC-7 & RC-11. The Contractor shall supply and install additional junction box 12"x12" near Pole#82 & Pole #42. Location to be determined on-site. Junction box shall be from "SYNERTEC" or approved equal.

The Contractor shall supply and install a meter socket and disconnect combination panel on EHP-1 & EHP-3. The centre of a panel shall be minimum 6ft high from the finished grade. Meter and circuit breaker combinational panel to be 120V service entrance rated with NEMA 3R enclosure- Manufacturer- Micro electric CO1-100HI-G or approved equal. The Contractor shall supply and install f-head and a 53mm conduit from a feed point to the panel. Please see attached sketches for your reference.

The Contractor shall provide #3AWG wiring coiled above the power supply with a length of 5m for ENWIN Utilities to make connections.

The Contractor shall arrange for ESA inspection and pay associated fees.

Measurement

Measurement shall be made in linear meters for the conduits.

Measurement for the supply and installation of the junction boxes and meter disconnect combinational panel on an each basis.

Payment shall be made at the Unit Price bid and per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

3) Delete Special Provision 37 'TRAFFIC SIGNAL INFRASTRUCTURE' and replace it with the following:

37.0 TRAFFIC SIGNAL INFRASTRUCTURE

13. Traffic Conduit

This item includes the supply and installation of Rigid PVC Conduit in accordance with CSA Standard C22.2-#211.2, and Solvent Weld Couplings and Fittings in accordance with CSA Standard C22.2-#85. In cases where Rigid PVC Conduit is to be joined to existing conduit, approved adaptors shall be used. The cost of all fittings including bends, couplings, adaptors, end plugs, etc., shall be included in the price bid per metre of conduit. In locations where directional boring is utilized to install conduit, HDPE type conduit shall be accepted. This item includes the conduits at the new power supply location.

Installation of conduit shall be by boring, punching or rocketing under pavements and hard surfaces and by boring, punching, rocketing, open cutting or trenching in boulevard areas. Permission must be received from the Engineer should it be determined that installation of conduit under pavements and hard surfaces can only be accomplished by open cut or trenching. Conduit shall have a minimum of 750mm of cover from top of grade to top of conduit. The cost of this item shall also include breaking into existing and proposed manholes and providing a water-tight seal between the conduit and manhole wall. Conduit shall be installed as directed by the Engineer. No 90 degree sweep shall be placed in any conduit run without approval of the Traffic Operations representative. No flex pipe shall be placed in any conduit run.

The Contractor shall be responsible for any Electrical Safety Authority permits related to open trench installation. The City shall open and pay for directly, connection permits for the traffic signals and shall coordinate connection and turn on with EnWin Utilities.

The Contractor shall advise the City of Windsor's Traffic Engineering prior to closing any open trenches, Traffic Engineering reserves the right to review and approve the installation.

Measurement of conduits shall be on a linear metre basis measured horizontally along the centre line of the conduit from the end of the conduit to the inside face of the manhole. No additional measurement vertically or payment shall be made for bends, sweeps or other fittings necessary for the completion of this item. Conduit runs over 20 feet must be installed complete with flat line pull tape, 5/8", polyester material with 1800lb pulling tensile strength to prove the integrity and functionality of the conduit. The cost of installing pull wires shall be included in this work. Conduit runs under 20 feet must be installed with nylon pull rope to prove the integrity and functionality of the conduit

Conduits shall be as indicated on the drawings.

Measurement

Measurement shall be made in linear meters for this item.

Payment

Payment shall be made at the Unit Price bid per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

14. Traffic Road Crossings

OPSS Form 603 shall apply and govern except as amended or extended herein.

The Contractor shall supply and install underground heavy duty rigid PVC Schedule 40 conduit in accordance with CSA Standard C22.2 - No. 211.2 including directional boring, excavation, backfilling and including all fittings (bends, couplings, adaptors, end plugs, etc., in accordance with CSA Standard C22.2 - No. 85) and installation of twisted nylon pull wire for installation of wiring.

Road crossings shall be directional bored as shown in the contract drawings. Concrete for road crossing shall be included in this item.

The Contractor is responsible for supplying and installing electrical conduit.

Measurement

No measurement shall be made for this item.

Payment

Payment shall be made at the Lump Sum Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

15. 600 mm Diameter Traffic Pole Bases

This item includes the supply of labour and materials to construct Traffic Signal Pole Bases as per Traffic Engineering Department Standard Detail TS-30. The contractor shall install a minimum of one (1) 75 mm diameter PVC conduit and one (1) 50 mm diameter PVC conduit in each pole base and connect it to the manhole. Additional 53mm conduit shall be installed into the traffic pole bases where the street lighting are combined with the traffic poles.

The contractor shall install a ground rod in the nearest manhole as per TS-10 when installing a pole base if no ground rod exists. In concrete and/or hard surface areas the contractor and Engineer shall have a pre-construction site meeting to determine the extent of the concrete and/or hard surface area removal to allow for pole base installation.

Concrete for pole bases shall be 25 MPa minimum strength at 28 days, air entrained 5 - 7 %, of Normal Portland Cement. Concrete shall be poured in a preformed 600 mm diameter x 1500 mm long fibre Sonotube.

The City shall provide pole base anchor bolts and templates.

Measurement

No measurement shall be made for this item.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete the work in every respect including traffic control, saw cutting, removal and disposal of materials as required and any restoration required to surfaces disturbed as a result of this work. For restoration in concrete/hard surface areas, the Unit Price shall include all temporary hard surface restoration as per Item 20. In boulevard areas, the Unit Price shall include all restoration required to surfaces disturbed as a result of this work.

16. Concrete Controller Cabinet Base

This item includes the supply of labour and materials to construct a Concrete Controller Cabinet Base as per Traffic Engineering Department Standard Detail TS-40 at all locations identified by the Engineer or designate. In concrete and/or hard surface areas the contractor and Engineer shall have a pre-construction site meeting to determine the extent of the concrete and/or hard surface area removal to allow for Concrete Controller Cabinet Base installation.

Concrete for the Cabinet Bases shall be 25 MPa minimum strength at 28 days, air entrained 5 - 7 %, of Normal Portland Cement. Concrete shall be formed to 2000 mm x 1250 mm x 450 mm. The Contractor shall install three (3) 100 mm Diameter and one (1) 50 mm Diameter Rigid PVC Conduits.

Measurement

No measurement of the restored areas shall be made for this item.

Payment

Payment will be made at the Unit Price bid in the Unit Pricing Schedule for each Cabinet Base. This shall be considered compensation in full for all labour, equipment and materials required to complete the work in every respect including traffic control and, saw cutting, removal and disposal of materials as required any restoration required to surfaces disturbed as a result of this work.

For restoration in concrete/hard surface areas, the Unit Price shall include all temporary hard surface restoration as per Item 20. In boulevard areas, the Unit Price shall include all restoration required to surfaces disturbed as a result of this work.

17. 600mm Square Traffic Manholes

This item includes the supply and installation of 600 mm x 600 mm Square Traffic Manholes, including ground rods, as per Traffic Engineering Department Standard Detail TS-10, at all locations identified on the Contract Drawings. Ground plates may be installed in lieu of the ground rod with the approval of the Engineer. In concrete and/or hard surface areas the contractor and The City of Windsor shall have a pre-construction site meeting to determine the extent of the concrete and/or hard surface area removal to allow for manhole installation.

Concrete for the Traffic Manholes shall be installed as per the City of Windsor Specification S-9. Cast Iron Frame and Cover for Traffic Manholes shall conform to Public Works Department Standard Detail AS-304A or approved equal. The Cover shall have identification markings indicating "TRAFFIC" or otherwise are to be blank.

At certain locations, the Traffic Manholes must be placed on top of the existing concrete encased conduit bank. At these locations the Contractor will expose the top half of at least two (2) of the existing conduits and provide concrete benching as required, unless otherwise directed by the City of Windsor. Existing communication or electrical cable present in the conduit bank cable shall not be removed if in use. If cable is not critical to system operation and may be removed, the Contractor shall co-ordinate with Traffic Operations to arrange for this removal.

A minimum of three (3) grade rings must be set in mortar and parged on outside face to bring the manholes up to grade with pavement. Cast Iron Frame and Cover for Traffic Manholes shall conform to Public Works Department Standard Detail AS-304A or approved equal.

The Contractor shall mark manhole locations and contact the City of Windsor's Traffic Operations Division to review and approve prior to installation.

Manholes shall be as indicated on the drawings.

Measurement

Measurement shall be made on an each basis.

Payment

Payment shall be made at the Unit Price bid in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to carry out this work.

18a. Concrete Pole Base Removal

This item includes the demolition, removal and disposal of existing concrete pole bases. In concrete and/or hard surface areas the contractor and Engineer shall have a pre-construction site meeting to determine the extent of the concrete and/or hard surface area removal to allow for pole base installation

The Contractor shall backfill all excavations in boulevard areas with approved native material compacted to 95 % of the Standard Proctor Density or Granular 'A' material compacted to 100 % of the Standard Proctor Density. All excavations within pavements shall be backfilled with Unshrinkable Backfill as per Item 19.

This item also includes the restoration of sidewalk as per AS-401 (Residential) or AS-403 (Commercial) to the nearest sidewalk panel joint. In grassed areas, restoration will be to existing conditions or better.

Measurement

No measurement of the restored areas shall be made for this item.

Payment

Payment for this item will be made at the appropriate Unit Price in the Unit Pricing Schedule and shall be considered compensation in full for all labour, equipment and materials required to complete this work in every respect including traffic control, saw cutting, removal and disposal of materials as required and any restoration required to surfaces disturbed as a result of this work.

For restoration in concrete/hard surface areas, the Unit Price shall include all temporary hard surface restoration as per Item 20. In boulevard areas, the Unit Price shall include all restoration required to surfaces disturbed as a result of this

18b. Concrete Controller Cabinet Base Removal

This item includes the demolition, removal and disposal of existing concrete controller cabinet bases, which are to be removed at all locations identified by the Engineer or designate. In concrete and/or hard surface areas the contractor and Engineer shall have a pre-construction site meeting

to determine the extent of the concrete and/or hard surface area removal to allow for Concrete Controller Cabinet Base removal.

The Contractor shall backfill all excavations in boulevard areas with approved native material compacted to 95 % of the Standard Proctor Density or Granular 'A' material compacted to 100 % of the Standard Proctor Density. All excavations within pavements and hard surfaces shall be backfilled with Unshrinkable Backfill as per Item 19.

This item also includes the restoration of sidewalk as per AS- 401 (Residential) or AS-403 (Commercial) to the nearest sidewalk panel joint. In grassed areas, restoration will be to existing conditions or better.

Measurement

No measurement of the restored areas shall be made for this item.

Payment

Payment for this item will be made at the appropriate Unit Price bid in the Unit Pricing Schedule per cabinet base.

This shall be considered compensation in full for all labour, equipment and materials required to complete this work in every respect including traffic control, saw cutting, removal and disposal of materials as required and any restoration required to surfaces disturbed as a result of this work.

For restoration in concrete/hard surface areas, the Unit Price shall include all temporary hard surface restoration as per Item 14. In boulevard areas, the Unit Price shall include all restoration required to surfaces disturbed as a result of this work.

18c. Traffic Manhole Removal

This item includes the demolition, removal and disposal of existing traffic manholes, which are to be removed at all locations identified by the Engineer or designate. In concrete and/or hard surface areas the contractor and Engineer shall have a pre-construction site meeting to determine the extent of the concrete and/or hard surface area removal to allow for traffic manhole removal.

The contractor shall backfill all excavations in boulevard areas with approved native material compacted to 95 % of the Standard Proctor Density or Granular "A" material compacted to 100 % of the Standard Proctor Density. All excavations within pavements shall be backfilled with Unshrinkable Backfill as per Item 19.

This item also includes the restoration of sidewalk as per AS-401 (Residential) or AS-403 (Commercial) to the nearest sidewalk panel joint. In grassed areas, restoration will be to existing conditions or better.

Measurement

No measurement of the restored areas shall be made for this item.

Payment

Payment for this item will be made at the appropriate Unit Price bid in the Unit Pricing Schedule per traffic manhole and shall be considered compensation in full for all labour, equipment and materials required to complete this work in every respect including traffic control, saw cutting, removal and disposal of materials as required and any restoration required to surfaces disturbed as a result of this work. For restoration in concrete/hard surface areas, the Unit Price shall include all temporary hard surface restoration as per Item 14. In boulevard areas, the Unit Price shall include all restoration required to surfaces disturbed as a result of this work

19. Unshrinkable Backfill

This specification shall cover the requirements for the supply of all materials, labour, and equipment necessary for the placing of Unshrinkable Backfill. This material shall be placed in all underground utility trenches and cuts, and around underground structures placed within the City of Windsor's right-of-way, that will be under a concrete, asphalt, or brick paver surface. This will include all items listed above as well as all other items of work as herein described.

Unshrinkable backfill shall be required to meet the requirements of the City of Windsor Standard Specification section S-24. Specifications are available online at the City of Windsor's website.

<https://www.citywindsor.ca/business/buildersanddevelopers/Pages/Standard-Specifications.aspx>

Measurement

No measurement of the restored areas shall be made for this item.

Payment

Payment for this item shall be included in the Unit price bid in the Unit Pricing Schedule for the pole bases, controller pads, manholes and other items installed in concrete or hard surface areas as noted elsewhere in the contract and those prices shall be full compensation for all labour, equipment, materials and incidentals to do the work. Payment shall include, but not be limited to, the supply and placement of the Unshrinkable Backfill an the supply, placement and removal of the steel plates, including steel spikes, construction fencing, including steel bars to support it or any other protection required by the City Engineer

20. Temporary Hard Surface Restoration

Temporary hard surface restoration shall be completed to meet the requirements of the City of Windsor Standard Specification section S-29. Specifications are available online at the City of Windsor's website.

<https://www.citywindsor.ca/business/buildersanddevelopers/Pages/Standard-Specifications.aspx>

The Contractor shall be responsible to maintain the temporary restoration until such time as the permanent restoration is completed.

Measurement

No measurement of the restored areas shall be made for this item

Payment

Payment for this item will be made at the Unit price bid in the Unit Pricing Schedule and shall be considered compensation in full for all labour, equipment and materials required to complete this work in every respect. No additional payments for this item.

21 Grass Surface Restoration

The Contractor shall restore grass areas to meet the requirements of the City of Windsor Standard Specification section S-14 or S-15 as applicable. Specifications are available online at the City of Windsor's website.

<https://www.citywindsor.ca/business/buildersanddevelopers/Pages/Standard-Specifications.aspx>

Seeding shall be used in multi-residential, commercial, industrial and park areas unless otherwise specified.

Measurement

No measurement of the restored areas shall be made for this item

Payment

Payment for this item shall be included in the Lump Sum price bid in the Unit Pricing Schedule for the open trenching of conduit, pole bases, controller pads, manholes and other items installed in boulevard areas as noted elsewhere in the contract and those unit prices shall be full compensation for all labour, equipment, materials and incidentals to do the work.

22 Re-Routing existing traffic conduit due to the construction of temporary asphalt lane

This item includes the re-routing of existing traffic conduit before the construction of temporary asphalt lane. Directions will be provided by the City of Windsor-Traffic Engineering department during the pre-construction meeting. This item may include supply and installation of Rigid PVC Conduit in accordance with CSA Standard C22.2-#211.2, and Solvent Weld Couplings and Fittings in accordance with CSA Standard C22.2-#85. In cases where Rigid PVC Conduit is to be joined to existing conduit, approved adaptors shall be used. The cost of all fittings including bends, couplings, adaptors, end plugs, etc., shall be included in the price bid per metre of conduit. In locations where directional boring is utilized to install conduit, HDPE type conduit shall be accepted.

Installation/Re-routing of conduit shall be by boring, punching or rocketing under pavements and hard surfaces and by boring, punching, rocketing, open cutting or trenching in boulevard areas. Permission must be received from the Engineer should it be determined that installation of conduit under pavements and hard surfaces can only be accomplished by open cut or trenching. Conduit shall have a minimum of 750mm of cover from top of grade to top of conduit. The cost of this item shall also include breaking into existing and proposed manholes and providing a water-tight seal between the conduit and manhole wall. Conduit shall be installed as directed by the Engineer. No 90 degree sweep shall be placed in any conduit run without approval of the Traffic Operations representative. No flex pipe shall be placed in any conduit run.

The Contractor shall advise the City of Windsor's Traffic Engineering prior to closing any open trenches, Traffic Engineering reserves the right to review and approve the installation. Conduits shall be as indicated on the drawings.

Measurement

Measurement shall be made in linear meters for this item.

Payment

Payment shall be made at the Unit Price bid per linear meter in the Unit Pricing Schedule and shall be compensation in full for all labour, equipment and materials required to complete this work.

CONTRACT DRAWINGS

- 1) Attached are the signed tender drawings, please note no changes have been made to the tender drawings, with exception of the addition of the approval signatures.
- 2) **Sheet 8:** Traffic Notes-Note 6: Replace "EMT" conduit with "ENT" conduit
- 3) **Sheet 9:**Add "EHP-1" at New Power Supply A location in Proposed Construction section
- 4) **Sheet 10:** Revise Note:
 - a. With the construction of a temporary asphalt lane as per sheet 15, Contractor to remove existing one traffic manhole and two concrete pole bases of the traffic poles located on North-East corner of Girardot Ave/ Huron Church Rd intersection.
 - b. Contractor to install one new manhole & two new concrete pole bases (Girardot Ave Eastbound Secondary & Huron Church Northbound Primary) after the removal of temporary asphalt lane. Manhole and pole bases location to be determined on-site by the City of Windsor. This work will also include the installation of conduits between a new manhole and new traffic pole bases.
 - c. Before the construction of a temporary asphalt lane, the Contractor to remove two existing streetlight poles and existing underground conduits as they will be in conflict with the lane. Contractor to make provisions for temporary lighting for this section as well. The City of Windsor will advise the contractor on re-routing an existing traffic conduit that is in conflict with the temporary asphalt lane during the pre-construction meeting.

Except for the contents of this addendum, all other terms and conditions of this tender remain the same.

END OF ADDENDUM NO. 1

Yours truly,

THE CORPORATION OF THE CITY OF WINDSOR

Elaine Castellan

Elaine Castellan
Purchasing Supervisor

EC/jm

**ADDENDUM NO. 1
TENDER NO. 162-20
HURON CHURCH ROAD RECONSTRUCTION – TECUMSEH ROAD WEST TO COLLEGE
AVENUE**

December 18, 2020

I hereby acknowledge receipt of Addendum No. 1 to the Tender No. 162-20 (60 pages).

The information contained therein is hereby noted and account of same will be taken in our tender cost.

This information was received on the _____ day of _____, 20_____.

Signature

Name (Printed)

Company Name

***NOTE: You are required to acknowledge this addendum with your TENDER submission.**

**PLEASE FAX BACK TO (519) 255-9891 OR E-MAIL @ purchasing@citywindsor.ca SIGNED
ACKNOWLEDGEMENT SHEET ASAP**

Attn: Purchasing Department