



REQUEST FOR TENDER

PAVING

CONTRACT No. 320-020

PORT OF JOHNSTOWN, ONTARIO

MANDATORY SITE VISIT:

MONDAY APRIL 22, 2024, 11:00 AM,
LOCAL TIME

CLOSING DATE AND TIME:

FRIDAY MAY 10, 2024, 12:00 PM,
LOCAL TIME

PORT OF JOHNSTOWN
3035 COUNTY ROAD 2
JOHNSTOWN, ONTARIO
K0E 1T1

SECTION A – TENDER FORM

SECTION B – INSTRUCTIONS TO TENDERERS

SECTION C – TECHNICAL REQUIREMENTS

Section C1 – General

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Part 1: General and Scope of Work

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SECTION D – DRAWING and PHOTOGRAPHS

1. Photographs of Paving Areas Part 1 (East of Track Shed), Part 2, South of Annex Bins, Part 3 (West of Track Shed).

SCHEDULE A – UNIT PRICE TABLE
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SCHEDULE C – EQUIPMENT STATEMENT

(ALL TO BE SUBMITTED WITH BID)

1. **Project Identification**

Tender Closing:	Date: May 10 th , 2024	Time: 12:00 p.m. Noon (EST)
Description	PAVING PROJECT NO. 320-020 PORT OF JOHNSTOWN JOHNSTOWN, ONTARIO	

2. **Business Name and Address of Tenderer**

Name: _____

Address: _____

Telephone: _____ Facsimile: _____

H.S.T. No.: _____

3. **Offer**

We, the Tenderer, hereby offer to the Port of Johnstown (hereinafter referred to as the “Owner”) to perform and complete the work in a workmanlike manner for the above-named project in accordance with the Plans and Specifications and other Tender Documents, at the place and in the manner set out therein for the **TOTAL TENDER AMOUNT (see p.7 below)** in words

_____, excluding HST

The above amounts are inclusive of all applicable Federal, Provincial and Municipal taxes, subject to any additions or deductions provided for in the Articles of Agreement, the General Conditions and Supplementary General Conditions, and which are based on the estimated quantities.

For the purposes of this tender, the Harmonized Sales Tax (HST) is not to be considered as an applicable tax.

4. Acceptance and Entry into Contract

We undertake, within seven (7) days of receipt of notification of acceptance of our offer, to sign a contract for the performance of the work provided we are notified by the Owner of the acceptance of our offer within sixty (60) days of the tender closing date. Parties may mutually agree to contract by letter only.

5. Construction Time

We agree to undertake and complete the work in an expeditious manner on schedule by no later than July 12, 2024.

6. Unit Price Table

The Owner and the Tendered agree that Schedule A – Unit Price Table included herein to be used for the purposes of the Contract.

We agree that the Price(s) per Unit as tendered govern in calculating the Total Tender Amount. We understand that any errors in the extension of the Price(s) per Unit and in the addition of the Total Price will be corrected in order to obtain the Total Tender Amount.

We agree that the Total Tender Amount does not include Harmonized Sales Tax (HST). HST will be billed as a separate item in addition to the payment amount for work performed under the contract.

7. Provisional Items

The Owner and the Tenderer agree that Schedule B – Provisional Items included herein to be used for additional or extra work at the unit prices shown if changes are required in strict accordance with the Contract requirements.

We agree that we are not entitled to payment of all or any part of the Schedule B – Provisional Items except for additional work carried out by Tenderer as directed and in accordance with the Contract, and only to the extent of such additional work.

8. Bid Security

We herewith enclose tender security in accordance of the Instructions to Tenderers.

We understand that if a security deposit is furnished as tender security and if we refuse to enter into a contract when called upon to do so, our bid security deposit shall be forfeited. The Owner may waive the right to forfeit the bid security deposit.

We understand that if the security furnished is not in the approved form as described in the Instructions to Tenderers, our tender is subject to disqualification.

9. Contract Security

The successful tenderer shall, within 10 days after notice of acceptance of his bid, provide to the owner contract security as set out in Section B-3.

10. Disclosure

We acknowledge that we have examined the drawings and specifications, have visited the site of the work and have ascertained all the necessary particulars with regard to the work, including but not necessarily limited to the location of objects which may interfere with the work, the possibility of interference with the work by normal operations, weather conditions and the effect of simultaneous work by others.

We understand that the Plans, Specifications, General Conditions, Supplementary General Conditions, Tender Form and any Addenda issued prior to the closing of tender will all constitute part of the Contract.

11. Appendices

This Tender Form includes Schedules A to C inclusive.

12. Addenda

The undersigned hereby acknowledge that the following Addenda have been received and provided for in this Quotation:

Addendum No. _____ Dated _____, 2024.
Addendum No. _____ Dated _____, 2024.

If no Addenda were received, initial _____ (none received)

13. Mandatory Site Visit

The undersigned attest that the site of the work was inspected on _____ 2024.

14. Declaration

In submitting this Tender, we the undersigned recognize the right of the Owner to accept any Tender at the price submitted, or to reject all Tenders and that the Owner is not obligated to accept the lowest or any Tender.

15. Execution of Tender

SIGNED, ATTESTED TO AND DELIVERED on the _____ day of _____, 2024

(Type or print the business name of the Tenderer)

WITNESSES

AUTHORIZED SIGNATORIES

Witness: _____

Signature: _____

Name: _____

Title: _____

(I have authority to bind the company.)

Witness: _____

Signature: _____

Name: _____

Title: _____

(I have authority to bind the company.)

Place Seal of Company Here

16. SCHEDULE A - UNIT PRICE TABLE

The unit prices or lump sum bid for each item shall be full compensation for all labour, materials and equipment incidental and necessary to complete the supply, installation and construction of each item as specified in the Contract Documents. Do not include Harmonized Sales Tax (HST) in the individual Tender Items or the Total Tender Amount.

The quantities shown in this schedule are estimated. The Contractor must bid based on the quantities shown in this schedule and must not alter the quantities for any reason. The final Contract Price shall be the final sum of the products of the actual quantities that are incorporated in, or made necessary by the Work, as confirmed by count and measurement, and the appropriate Contract Unit Prices. Adjustments to the same, may be made in accordance with the provisions of the Contract Documents. The Contractor must bid on each item listed.

The listing of units in the Unit Price Table and the associated description of work in the Contract Documents are for convenience only and not intended to be a full and complete description of all work. It is the Tenderer's responsibility to ensure that the individual bid prices and the total tender sum cover all costs to complete all of the Work based upon the whole of the Contract Documents.

Item No.	Description	Units of Measurement	Estimated Quantity	Unit Price	Total
1	Mob/Demob (Max 5% of total)	S.F.I.	1		
2	Proof Roll	S.F.I.	1	\$ 3,500	
3	Common excavation	m ³	869		
4	Geotextile	m ²	1650		
5	Granular B Type 2	tonne	2400		
6	Granular "A"	tonne	570		
7	Superpave 19, Level D	tonne	365		
8	Superpave 12.5, Level D	tonne	245		
9	Insurance and Bonding	S.F.I.	1		
TOTAL TENDER AMOUNT					

Note: Transfer the "Total Tender Amount" above to Clause 3 on page 1 of the Tender Form.

The Price per Unit column and the Total Price column must be completed for each Unit Price Item.

17. SCHEDULE B – PROVISIONAL ITEMS

We submit the following schedule of unit prices for provisional items to be used if changes are required from the Works shown on the plans and specified in the Contract Documents. If quantities are increased, the additional quantities will be paid at these prices and if quantities are reduced these prices will be used to calculate deductions from the contract price. Do not include Harmonized Sales Tax (HST) in the Schedule of Provisional Items.

We agree that we are not entitled to payment of all or any part of the Schedule of Provisional Items except for additional work carried out by Tenderer as directed and in accordance with the Contract, and only to the extent of such additional work.

ITEM No.	DESCRIPTION	UNITS OF MEASUREMENT	ESTIMATED QTY.	UNIT PRICE	TOTAL
P-1	Supply and Install Filter Fabric	Square Metre	unknown		N/A
P-2	Excavation and Removal of Soft Spots	Tandem Truck Load	unknown		N/A
P-3	New Granular A – Placed and compacted	Tonne	unknown		N/A
P-3	New Granular B Placed and compacted	Tonne	unknown		N/A

18. SCHEDULE C – EQUIPMENT STATEMENT

The Tenderer shall furnish, in the space provided hereunder, a list and a complete description of the plant and equipment available for the satisfactory completion of the work.

The Owner reserves the right to inspect all plant and equipment listed prior to the award of a contract. The Tenderer agrees that knowledge or inspection of the equipment by the Owner shall in no way be considered as approval of the adequacy of the plant and equipment so listed for the work.

DESCRIPTION OF UNIT	SIZE CAPACITY, HP RATING	PRESENT CONDITION	HOURLY RATE	
			LOCATION	WITH OPERATOR

1. **Quotations**

Unit Price Tender, as submitted on the form provided, is invited for supply and installation of granular pavement base course at the Port of Johnstown, as outlined in the Contract Documents.

Tender will be received by the Port of Johnstown (Henceforth the "Owner") until the stated closing time, and shall be submitted in hard copy, using the form provided, in an envelope bearing the following notation:

Quotation:

Paving
Contract No. 320-020
Port of Johnstown, Ontario

Attention: Mr. Kevin Saunders, Operations Manager
Port of Johnstown
3035 County Road 2
Johnstown, Ontario K0E 1T1

The signature(s) to the Form of Quotation shall be in longhand and by official(s) duly authorized to execute Contracts. In all cases of a limited corporation, the company seal shall be affixed to the Contractor's signature page.

E-mail bids are not accepted

2. **Closing Time**

Quotations will be received until noon on May 10, 2024.

3. **Tender Security and Contract Security**

1. Tenders must be accompanied by the following tender security:

(1) A bid bond, in a form acceptable to the Owner and from a company whose bonds are acceptable to the Owner, in an amount of no less than 10% of the Tender amount,

Or

(2) A security deposit, in the form of a certified cheque payable to the Owner, in an amount of \$10,000.00 plus 5% of the amount of the Tender amount.

- (3) The security deposit as indicated above will be forfeited if the Tenderer refuses to enter into a Contract when called upon to do so.
- (4) If the security furnished is not in an approved form, as described above, the Tender is subject to disqualification.

2. The Contractor shall deliver to the owner prior to award:

- (1) A Performance Bond in the amount equal to 100% of the total tender amount.
- (2) A Labour and Material Bond in the amount equal to 50% of the total tender amount.
- (3) Contract certificate of insurance as set out in B-14.
- (4) The bonds shall be issued by a bonding or surety company acceptable to the owner and shall be maintained in good standing until the completion of the contract and warranty period.

4. **Risks**

The Tenderer is expected to satisfy himself as to the nature of the work to be done and must visit the site and view the facilities to estimate any foreseeable difficulties prior to submitting the requested Quotation.

It is assumed that the Contractor will base the Quotation upon a thorough understanding of the existing circumstances and take into account hazards of all kinds including weather conditions. It is understood that no allowances or concessions will be made to the Contractor for any lack of information on his part of any matter whatsoever, and that risks and hazards of every kind are assumed by the Contractor.

All work to be completed under the scope of this Contract is to be done in strict accordance with the technical requirements and associated drawings, and such instructions as may from time to time be given in writing by the Owner.

5. **Tender Validity**

All tenders shall be valid for acceptance for sixty (60) days from the date set for delivery to the Owner.

6. **Permits**

Other than regulatory governmental agency approvals for the work, it is the responsibility of the Contractor to obtain and pay costs for any other permits that may be required for his work, and to see that all such necessary permits are in place on the site at the commencement of work.

7. Safety Regulations

The Contractor must comply at all times with safety regulations and/or requirements and must cooperate with inspectors - refer also to additional conditions in the technical requirements.

8. Clarification of Related Documents

All Tender Documents shall be read in conjunction with each other, and it shall be assumed that they are in agreement. Should any discrepancies, ambiguities, omissions or conflicts be detected in the related documents, the Tenderer shall advise the Owner, and if necessary an Addendum shall be issued.

9. Addenda

All communications to the tenderers will be in the form of Addenda. All Addenda shall become an integral part of the Tender Documents and shall be provided for by the Tenderer in the Stipulated Price Tender.

Tenderers shall insert, in the space provided in the Form of Tender, the number and dates of all Addenda received and provided for in their Tender.

Tenderers should verify with the Owner, before submitting their Tender, that all applicable Addenda have been received.

10. Questions

Tenderers with questions regarding the Request for Tender should contact the individual below. All questions must be through emails.

Kevin Saunders, Operations Manager
Port of Johnstown
3035 County Road 2
Johnstown, Ontario
Email : ksaunders@portofjohnstown.com

All questions should be addressed to the above no later than 12:00 p.m. on May 2, 2024 in order to allow sufficient time for Addenda to be issued as required to all Tenderers as set out in Section B-9. Email from the owner (acknowledgement of receipt by bidder required) may be used to issue Addenda.

11. Schedule of Work

Within seven (7) days of notice of Award of Contract, the Contractor must submit a proposed schedule of work to the Owner, to include start and finish dates, as well as proposed schedule of individual work items in bar chart format.

12. Contract

The Contractor will be responsible to enter into a CCDC 4 contract agreement with the Owner which will be the responsibility of the contractor to procure and present to Owner. However, in lieu of or until such time as a formal Contract is executed, the Owner's acceptance in writing of the Contractor's Tender of these Contract Documents will constitute a Contract.

13. Contract Completion Date

If the Contractor is unable to comply with the required construction schedule, he shall state clearly in his Quotation his intended dates of commencement and completion.

14. Insurance

The Contractor shall carry insurance satisfactory to the Owner; including Commercial General Liability insurance naming the Owner as "additional insured", in the minimum amount of five (5) million dollars.

Proof of coverage shall be provided to the Port by the successful bidder prior to award.

Insurance coverage shall be kept in effect without termination or material change for the duration of the contract.

15. Payment

Due to the short duration for the work, the Owner will pay upon completion of the work, subject to a 10% holdback. Request for alternate payment terms will be considered upon application for same. Payment for unit price items will be made on the actual quantities installed in the work. No alteration in unit price will be made for variations in quantities, howsoever caused.

Note: The contractor is required to closely and continuously monitor pavement thickness after compaction to achieve the specified layers as a minimum but without accumulating significant and persistent pavement tonnage quantity over run. The owner reserves the right to refuse payment for asphalt tonnage resulting from the total pavement layer exceeding that specified or required.

16. **Mandatory Site Inspection**

It is mandatory that tenderers attend a site inspection of the work on April 22, 2024, at 11:00 am.

Tenders received from firms not arranging for and carrying out a site inspection will not be considered and will be rejected.

Section C1 – General

Section C2 – Environmental Protection

Section C3 – Technical

Part 1: General and Scope of Work

Part 2: Products

Part 3: Execution

Section C-1 - GENERAL

- 1.1 General 1. The site of the work is adjacent to the grain receiving area at the Port of Johnstown, see Photographs 1, 2, and 3.
- 1.2 Examination 1. Before submitting tender, examine existing site conditions and determine conditions affecting work.
2. Obtain all information that may be necessary for proper execution of Contract.
3. Refer also to Clauses B-4 (Risks) and B-16 (Mandatory Inspection) of Section B.
- 1.3 Stockpile and Disposal Area 1. Excavated material will be removed to an area within the Port limits designated by the Owner.
2. For the purposes of provisional payment, a tandem truck load of disposed material must contain at least 12 cubic metres.
3. Contactor shall level out flat, piles of disposed material.
- 1.4 Minimum Standards 1. Execute work in accordance with rules and regulations of authorities having jurisdiction, including the Canada Shipping Act.
- 1.5 Fire Safety Plan 1. If requested by the Port, provide a Fire Safety Plan in accordance with National Building Code prior to commencement of work. Deliver a copy of the Fire Safety Plan to the Port before commencing work.
- 1.6 Construction Safety Measures 1. Observe and enforce construction safety measures required by the latest edition of the Occupational Health and Safety Act and Regulations for Construction Projects and all applicable regulations of the Port of Johnstown Health and Safety Plan.
2. In event of conflict between any provisions in above, the most stringent provision will apply.
3. Where applicable, the Contractor shall be designated the "Constructor", as defined by the Ontario Occupational Health and Safety Act.
4. Arrange and have all contractor employees attend a Health and Safety orientation meeting prior to start-up
- 1.7 Taxes 1. Pay applicable Federal, Provincial and Municipal taxes.
- 1.8 Commencement of Work 1. Commence mobilization of plant and equipment to site immediately upon notification of award or on such date as mutually agreed upon with the Owner.

1.9 Co-operation and
Protection

1. Execute work with minimum disturbance to the Port and normal use of premises. Make arrangements with the Port to facilitate execution of work.
2. Provide necessary barriers, warning lights, signs & flagmen.
3. Repair and clean existing structures, roads or other facilities damaged or fouled by the work or material lost during transport. Complete repairs and clean up at no expense to the Owner.
4. Ensure no material is tracked from the Port onto a public road.

1.10 Project
Meetings

1. The Port may arrange project meetings for mutually agreed upon dates and will record and distribute meeting notes. The Contractor and any sub-trades will attend these meetings.

1.11 Documents
Required

1. Maintain at job site, one copy of each of the following:
 1. The Drawings.
 2. Technical Requirements,
 3. Addenda.
 4. Change orders.
 5. Other modifications to Contract.
2. Maintain documents in clean, dry, legible condition.
3. Make documents available at all times for inspection by the Port.

1.12 Additional
Drawings

1. Additional drawings may be issued by the Port to clarify work.
2. Such drawings shall become part of the Contract Documents.

1.13 Demobilization

1. Complete demobilization of plant and equipment no later than two (2) weeks after receiving Port's written release from the work. Do not leave any equipment in the Port of Johnstown unless arrangements are made with, and approved by, the Port of Johnstown.

1.14 Port's Evaluation
of Tenders

1. The Port may request any Tenderer to submit additional information concerning their tender after tender closing. Submit such information within 24 hours of this request.
2. Additional information may consist of, but not be limited to, the following:
 - (1) Details of proposed mobilization and schedule.
 - (2) Details of proposed labour force, hours of work and production rates.
 - (3) Details of all proposed equipment for the work, disposal operations and site preparation work; their condition and any necessary repairs or modifications required to prepare the equipment for the work and its impact on the proposed schedule.
 - (4) Source of material and grading curves for each type of granular.
 - (5) Details of any proposed sub-contracts and equipment rentals.
3. All additional information submitted by the Tenderer will be used by the Port in confidentiality to evaluate the Tender.

SECTION C2 - ENVIROMENTAL PROTECTION1.1 General

1. Meet or exceed the requirements of all environmental legislation and regulations, including all amendments in force for the duration of the work, provided that in case of conflict or discrepancy, the most stringent requirements apply.

1.2 Disposal of
Excavated Materials

1. Dispose of any additional pulverized material that is not required in the designated area which is located approx. 400 metres west of the receiving area of Part 3 on the north side of the existing railway tracks.
2. Manage disposal area so that material can be accommodated. Mechanically level piles of disposed material flat.

1.3 Disposal of
Wastes

1. Do not bury rubbish and waste materials on site.

2. Dispose of waste materials or volatile materials such as mineral spirits, oil and paint thinner in a legal manner at an approved on-land disposal site.
3. Control disposal or run-off of water containing suspended materials or other harmful substances.
4. The disposal area shall be managed to prevent the run-off of any materials

1.4 Fires

1. Fires and burning of rubbish on site are not permitted.

1.5 Spills

1. Prevent spillage of gasoline, diesel fuel and other oil products or deleterious substances into the waterways and on land. Clean up spills promptly at own cost in accordance with applicable regulations by authorities having jurisdiction.
2. Report immediately any spills to the Port and call the Ministry of the Environment Spills Action Centre.

SECTION C3 - TECHNICAL**Part 1: General & Scope of Work****1.1 Scope of Work**

1. The works shall consist of the supply and installation of asphalt pavement courses in the defined areas of approximately 2,620 m² (Parts 1, 2 and 3), together with all related and incidental operations. The work will include, but not limited, to the following:
 - i. Strip all top soil, and debris from work area and remove from site (Parts 2 & 3).
 - ii. Excavate all sub-soil materials to rough grade and remove from site. Proof roll excavated sub-base. Install geotechnical membrane as required.
 - iii. Install a maximum, of 450 mm sub-base of Granular B Type 2 and compact for Part 2. Part 3 will require approximately 1.2 m of Granular B.
 - iv. Install a minimum of 150 mm of Granular A and compact.
 - v. Pulverize all existing asphalt in Area #1
 - vi. Remove all existing asphalt from Port Road off site.
 - vii. Install a minimum of 60 mm Superpave 12.5, Traffic Level D
 - viii. Install a minimum of 40 mm Superpave 19, Traffic Level DDo all the above in accordance with these specifications and drawings.

2. Winning contractor will create an existing elevations drawings of Parts 1, 2 and 3 areas and a proposed final elevation drawings, making such recommendations regarding these areas to be approved by the owner prior to start of work. Allow 2 weeks for discussion of the proposed elevations drawings before commencing work.
3. Existing surface in Part 1 is compacted asphalt (average thickness of 80 to 120 millimetres) with some areas of cold patch asphalt. Underlying material is mostly Granular A base course, Granular B subbase course, and glacial till. Parts 2 and 3 are currently unpaved areas that are to be excavated, base installed and the paved. Soil conditions are outlined in the GeoTech report. The Contractor shall review the existing conditions during the Mandatory Site Meeting and make any provisions they deem necessary to verify existing conditions prior to submitting their tender.
4. All lines and grades and layout work are the responsibility of the Contractor.
5. Saw cut existing asphalt full depth along the perimeter shown on the project drawings.
6. Remove standing water and sweep prior to start of work.
7. Pulverize all asphalt in all areas (Parts 1). Asphalt thickness is approximately 80 mm. In some areas the asphalt has been repaved and maybe approximately 120 mm thick. Use pulverized materials to grade.

8. Fine grade and compact pulverized gravel surface to ensure all starting elevations are at least 100 millimetres below finished grade. Any high spots to be graded into adjacent lower areas.
9. Proof roll prepared granular area in advance of paving under supervision of geotechnical personnel. Excavate and dispose of any soft areas as directed by the Owner.
10. Ensure all Part 1 areas of prepared granular surface are draining towards the drain located to the north of the area, Part 2 toward the drainage ditch located south of the area and Part 3 toward the rail tracks at Masterfeeds.
11. Mill existing asphaltic concrete along perimeter (300 millimetre width) to a depth of 40 millimetres. Millings are to be used for grading. Dispose of additional material on site as directed by owner.
12. Prior to paving, ensure prepared granular surface is free from debris, mud, other foreign material and standing water. Prepared grade shall be uniform, compact, smooth and true to grade and cross-section.
13. Prior to paving, survey and provide to Port for approval a plan showing top of gravel elevations of the prepared surface.
14. Supply, place and compact base layer Hot Mix Asphalt (HMA) consisting of 60 millimetres (compacted thickness) of Superpave 19 Traffic Level D with PG 64-34 asphalt cement.
15. Supply and distribute tack coat on full horizontal surface of base course HMA (Superpave 19) and milled key area (horizontal and vertical surfaces). Allow to break prior to placement of surface course HMA.
16. Supply, place and compact surface layer Hot Mix Asphalt (HMA) consisting of 40 millimetres (compacted thickness) of Superpave 12.5 Traffic Level D with PG 64-34 asphalt cement.
17. All other work as required to complete job.
18. Clean finished areas adjacent to paved areas. Sweep if required.

1.2 Interference to Port

1. Arrange operations to minimize interference with commercial traffic delivering and picking up grain at the Track Shed area.
2. Make no claim delays resulting from the above.

1.3 Site Information

1. Results of most recent survey taken are shown on the project drawing.

1.4 Construction
Sequence

1. Supply Port with plan of work sequence and/or stages for all areas, and aspects of the work.
2. Port may direct Contractor to alter sequence of work areas.

1.5 Measurement
for Payment

1. Supply Port with final drawing that displays total square meters paved. For Granular A or B (only if required) supply weigh tickets and summary of deliveries on a daily basis. Obtain acknowledgement from Port of material supplies on a daily basis. No material will be paid for under the unit price table outside of the above procedure.

PART 2 - PRODUCTS2.1 Equipment

1. Equipment used in the work to be mechanical, of sufficient capacity and in good condition to satisfactorily complete the work, within the time schedule and in accordance with the specified requirements.
2. No equipment that is leaking fluids (hydraulic, gas, oil, coolant) can be used in the work. Such equipment is to be removed from the site or repaired forthwith. Any areas contaminated by equipment shall be cleaned up forthwith.

2.2 Materials

1. All material installed will be new other than pulverized materials.
2. All new granular material will be new crushed stone supplied from a licensed quarry and meeting OPSS 1010 material specifications for aggregate. Owner may request samples for testing prior to award. Successful bidder will arrange inspection of quarry by Owner if requested. Gradation analysis (sieve curves) for all granular will be supplied to Owner, if requested. All granular material shall be sound, hard, durable crushed limestone free from clay, debris and organic matter.
3. All asphalt shall be supplied from a hot mix plant located in reasonable proximity to the site and delivered in covered trucks suitable for hot mix product. Asphalt used shall consist of the following types:
 - (1) Surface Course: Superpave 12.5 Traffic level D with PG 64-34 Asphalt Cement.
 - (2) Base Course: Superpave 19.0 Traffic level D with PG 64-34 Asphalt Cement.
 - (3) Asphalt Emulsion: SS-1 emulsion.
4. The various materials for these types of asphalt shall be selected to conform to latest Ontario Provincial Standard Specifications (OPSS) 1101, 1103, and 1151.

5. At least 5 business days prior to paving, the Contractor shall forward to the Port his Job Mix Formula (JMF) for each type of asphalt as per the submission requirements of OPSS 1151.
6. If requested, the JMF must be corroborated by the Contractor supplying to the Port a minimum one point Superpave confirmation supplied by an accredited testing firm. Adequate samples of materials to be used shall be made available as requested. No mix shall be supplied until the proposed mix formula, if so requested, has been approved by the Port. The Contractor shall be responsible for the supply of a uniform product.

PART 3 - EXECUTION

3.1 Layout of Work

1. Immediately upon entering site for purpose of beginning work on this project, locate all reference points and take proper action necessary to prevent their disturbance.
2. The Contractor and his survey staff are to provide horizontal control consisting of a baseline, and coordinate system with reference control monuments and vertical control consisting of water level gauge, and benchmark to define the work.
3. Maintain horizontal and vertical control and lay out the work from these established references. Be responsible for the accuracy of work relative to established references.
4. Establish and maintain additional temporary targets, markers and grade stakes for location and definition of designated work area limits as required. Remove on completion of work.

3.2 Sawcutting, Surface Preparation

And Full Depth Reclamation

1. Sawcut the existing asphalt in Part 1 full depth to provide a clean vertical face along the complete perimeter of all parts.
2. Remove stone dust / residue within project limits, as well as other debris and standing water. Dispose appropriately off site.
3. Pulverize existing asphalt and upper granular base layer to a minimum depth of 200 millimetres below existing surface to the requirements of OPSS 330.

3.3 Grading And Compacting

1. Grade pulverized material to the elevation of finished surface grade minus 100 millimetres. Grade any high areas into adjacent low areas or dispose of excess material as directed by the Owner. Remaining low any low areas to be filled with new Granular A as per Section 3.4.

2. Compact pulverized material to OPSS 501 using Control Strip method and to obtain 100 percent of Target Density as measured using a nuclear density gauge.

3.4 New Granular Installation

1. Install all pulverized or new granular materials to the lines and grades set out in the approved drawings. **[Note: drawing grades to be given for top of asphalt.]** Contractor must make required deductions to establish finished grade for each base course.
2. All new granular material will be installed in compacted lifts not exceeding 150 mm in thickness. Granular A and B is to be compacted to 100 percent of Standard proctor as measured with a nuclear density gauge.
3. Keep all working surfaces free from mud and water.
4. Owner is not responsible for delays related to weather and/or surface water.
 - (1) Restrict truck haulage routes to the areas defined on the site by the Owner.
 - (2) Maintain the roadways and work area in a clean manner throughout the duration of the contract. Repair any damages caused by Contractor's operations at no additional cost to the Owner. Restore road surfaces to the original condition upon completion of the work.
 - (3) Supply and install water as necessary for dust control on working surfaces and access roads at no cost to Owner.
 - (4) Clean out and keep clean all mud rails at railway crossings of haul roads.

3.5 Proof Rolling

1. Prior to paving, proof roll prepared granular surface with a compactor weighing a minimum of 20 tonnes under the supervision of geotechnical personnel.
2. Excavate and dispose of soft areas as directed by the Owner.

3.6 Milling

1. Mill all existing asphaltic concrete along perimeter of (300 millimetre width) to a depth of 40 millimetres as indicated in Photographs Part 1, 2 and 3. Dispose of material on site as directed by owner.

3.7 Asphalt Installation

1. Approval of Granular Base Grade Prior to Paving
 - (1) The granular base on which the hot mix is placed shall be shaped to the proper grade and contours, and compacted to 100 percent of Standard proctor or Target Density, as

appropriate.

- (2) Drainage grades are somewhat flat, so it is of utmost importance that the Contractor establish and maintain strict grade control on the granular base and both asphalt courses.
- (3) A minimum of 5 business days prior to scheduled paving, request approval of the granular base from the Port. Supply the Port with a survey plan showing finished grades on the prepared granular base.

2. Placement and Compaction

- (1) Construction of the new Hot Mix Asphalt (HMA) will be to OPSS 310.
- (2) Tack coat to be distributed at a rate of 0.35 kg/m² on horizontal surface of compacted base course HMA (Superpave 19) and both horizontal and vertical surfaces of milled areas prior to placement of surface course HMA.

3.8 Protection, Testing & Acceptance

1. Protect and maintain work area from time of installation until completion of work.
2. Keep work areas clean and neat at all times. Cleaning of roads and paved surface shall be the responsibility of the Contractor.
3. The Contractor is responsible for arranging, completing, and submitting to the Port the results of field and laboratory testing of granular and asphalt materials to the Quality Control (QC) requirements of relevant OPS specifications. Submission of QC test results to the Port of their designate shall be made within 24 hours of completion.
4. Testing for acceptance of granular and asphalt materials and construction, unless otherwise specified herein, shall be carried out by the Port or their designate based on the respective Quality Assurance (QA) requirements of relevant OPS specifications. The Contractor shall cooperate with the Port and/or its independent testing agent for all tests and make no claims for such matters. The Contractor shall be responsible for immediately making good any short comings in work and/or materials arising from such tests. The Port shall advise the Contractor of such defects in a timely fashion.

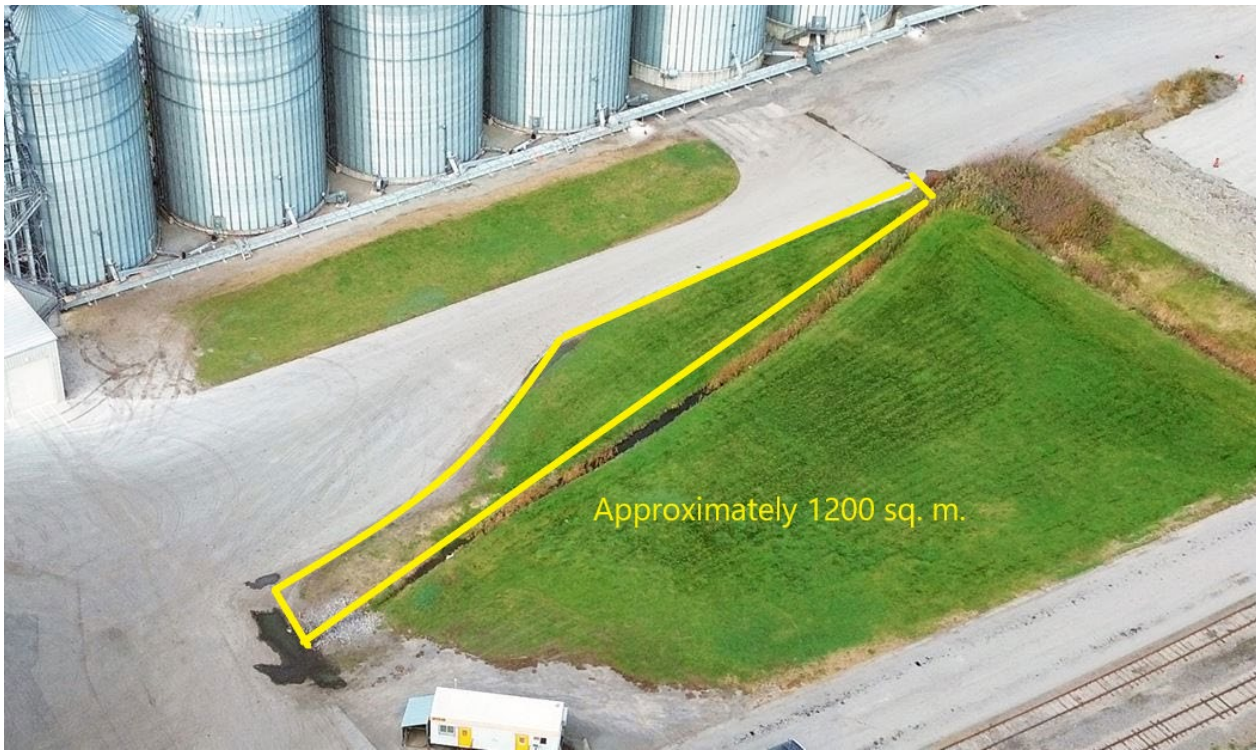
3.9 Warranty

1. The Contractor shall warrant the finished pavement against all defects in materials and workmanship for a period of 1 year after the Owners acceptance of work. Warranty shall include the timely repair of defects at the Contractor's expense.

Part 1 - East of Track Shed



Part 2 – South of Annex (steel) Bins



Part 3 – West of Track Shed

