

Tender for the Provision of:
Grey Road 9
Pulverizing and Hot Mix Paving
Schedule 'A' – Grey County
Schedule 'B' – Dufferin County
Schedule 'C' – Dufferin County
RFT-TS-08-20

Issue Date: Friday March 6, 2020
Closing Date: Thursday April 9, 2020
Time: 1:59:59 pm Local Time
Location: [Grey County Bonfire Portal](#)

Late Submissions will not be accepted.
The lowest or any Submission may not necessarily be accepted.

Section 1 – General Conditions

1.1 Form of Tender

All Tenders must be submitted upon the documents provided.

1.2 Submission Process

Grey County has made a change as to how tenders are to be delivered. Please follow the attached web link to gain access to the Grey County portal on a website called Bonfire. [Grey Bonfire Portal](#) All files are to be uploaded to the attached website and are not to be delivered to the Grey County Administration building. Bid submissions submitted and/or received by any other method shall be rejected, unless the Owner has instructed otherwise by published Addendum.

Prepare your submission materials:

Name	Type	# Files	Requirement	Availability
1. Bid Bond	File Type: PDF (.pdf)	1	Required	Upload by Bidder
2. Agreement to Bond	File Type: PDF (.pdf)	1	Required	Upload by Bidder
3. Tender Form	File Type: PDF (.pdf)	1	Required	Complete Form, Save and Upload as PDF
4. Bidder Information Form	File Type: PDF (.pdf)	1	Required	Complete Form, Save and Upload as PDF
5. Ability & Experience Form	File Type: PDF (.pdf)	1	Required	Complete Form, Save and Upload as PDF
6. Subcontractor Form	File Type: PDF (.pdf)	1	Required	Complete Form, Save and Upload as PDF
7. Bid Table	File Type: PDF (.pdf)	1	Required	Within Grey County Portal, complete and upload

Requested Documents:

Please note the type and number of files allowed. The maximum upload file size is 100 MB.

Please do not embed any documents within your uploaded files, as they will not be accessible or evaluated.

Upload your submission at:**[Grey County Bonfire Portal](#)**

Your submission must be uploaded, submitted, and finalized prior to the Closing Time. We strongly recommend that you give yourself sufficient time and **at least ONE day** before Closing Time to begin the uploading process and to finalize your submission.

Important Notes:

Each item of Requested Information will only be visible to Grey County Administration after the Closing Time.

Uploading large documents may take significant time, depending on the size of the file(s) and your Internet connection speed.

The bidding system will send an email confirmation receipt with a unique confirmation number once you finalize and submit your tender.

Minimum system requirements: Internet Explorer 8/9/10+, Google Chrome, or Mozilla Firefox. JavaScript must be enabled. Browser cookies must be enabled.

Need Help?

Please contact Bonfire at Support@GoBonfire.com for technical questions related to your submission. You can also visit their help forum at [Bonfire Help Forum](#).

1.3 Definitions

Corporation:	Refers to the Corporation of the County of Grey
County/Owner:	Refers to the Corporation of the County of Grey and/or the County of Dufferin
Bidder:	Refers to any eligible entity providing a Tender
Successful Bidder:	Refers, in the event of an award, to the selected Bidder
Contractor:	Refers, in the event of an award, to the selected Bidder
Tender(s):	Offer or bid

1.4 Documents Required After Award

Each of the following documents are to be provided to the County of Grey within 14 days of award:

- Performance Bond
- Labour and Materials Bond
- Certificate of Insurance
- Current WSIB Clearance Certificate
- Supervisor's Name and Number
- Contractor's Emergency Contact numbers (Constructor/Contractor)
- Emergency Procedures and Phone Numbers – on site (Constructor/Contractor)
- Name of work elected Health & Safety Representative for site (if 5 or more workers) Copies of procedures for any hazards that exist (overhead wires, confined space, trenching, etc.)
- Traffic Control Plan
- Notice of Project Registration (if project is over \$50,000) – (Ministry of Labour Form 0175)
- Registration of Contractors and Employers engaged in Construction – (Constructor/Contractor) (Ministry of Labour Form 1000)

1.5 Tender Closing

Tender submissions must be completely uploaded to the Grey County Bonfire Portal by:

April 9, 2020 1:59:59 PM local time

The Corporation is not responsible for submissions delivered to any other location.

1.6 Tender Opening

Bidders are advised there will be a public opening for this Tender. Bids received, by the date & time of closing, will be reviewed at the County Building, 595 9th Avenue East, Owen Sound, ON at 2:05 p.m. local time, location to be determined.

1.7 Inquiries / Clarification

Inquiries must be received no later than 4:30 PM, 3 business days prior to closing; otherwise a response may not be provided.

1.8 Late Submissions

Bidders will not be able to access the Bonfire portal after 1:59:59PM on the day of close.

1.9 **Withdrawal or Alteration of Tender**

Bidders may withdraw or alter their submission at any time up to the specified time and date of closing using the Bonfire portal.

1.10 **Retrieval of Official document and Addenda**

Only documents found on the Owner's website are to be considered the "official" documents. The Owner accepts no responsibility for the accuracy of information found on other websites. The onus is on the bidder to check this site to verify they have received all relevant information.

Addenda will be posted on this website. Although the Owner will attempt to e-mail registered bidders to notify them when addenda are posted on the website, the Owner does not guarantee that e-mails will be sent to all bidders or received by all bidders. It is the Bidder's sole responsibility to check the website often to inform themselves of any posted addenda.

1.11 **Examination of Tender Documents**

Each Bidder must satisfy himself / herself by a personal study of the Tender documents, by calculations, and by personal inspection of the site, respecting the conditions existing or likely to exist in connection with the proposed work. There will be no consideration of any claim, after submission of Tenders, that there is a misunderstanding with respect to the conditions imposed by this **Request for Tender**.

Prices bid must include **all incidental costs** and the Bidder must be satisfied as to the full requirements of the Tender. No claims for extra work will be entertained and any additional works must be authorized in writing prior to commencement. Should the Bidder require more information or clarification on any point, it must be obtained prior to the submission of the Tender.

1.12 **Completion of the Tender**

The Form of Tender including the Schedule of Items and Prices and other relevant documents, must be completed. All entries shall be clear and legible. Entries must be made for unit price, lump sum, extensions and totals as appropriate. All items shall be bid according to instructions contained within the Tender Documents.

Alterations may be made provided they are legible and initialed by the Bidder's signing officer. Tenders which are incomplete, conditional, illegible or obscure, or that contain additions not called for, reservations, erasures, alterations incorrectly submitted, or irregularities of any kind may be rejected.

In the event of a discrepancy between the unit price and the total price, the unit price shall prevail.

1.13 Omissions, Discrepancies and Interpretations

Should a Bidder find omissions from or discrepancies in any of the Tender Documents or should the Bidder be in doubt as to the meaning of any part of such documents, the Bidder shall notify the designated person and office without delay. If the designated person considers that a correction, explanation or interpretation is necessary or desirable, an addendum will be issued to all who have received Tender Documents.

No oral explanation or interpretation will modify any of the requirements or provisions of the Tender Documents.

1.14 Addenda

If required by the Owner(s), addenda will be distributed to all bidders registered as a document taker for this bid. Addenda will be distributed using the latest contact information as provided by the Bidder. It is the Bidder's responsibility to alter its website profile if there are any changes to their email or mailing address. It is the Bidder's ultimate responsibility to ensure all addenda have been received.

Bidders shall be required to acknowledge receipt of addenda on the Bidder's Addenda Acknowledgement Form contained in the bid document.

1.15 Acceptance or Rejection of Tender

1.15.1 The Owner(s) reserves the right to reject any or all tenders and to waive formalities as the interests of the Owner(s) may require without stating reasons, therefore.

Notwithstanding and without restricting the generality of the statement immediately above, the Owner(s) shall not be required to award and accept a tender, or recall the Tenders at a later date:

- a) When only 1 tender has been received;
- b) Where the lowest responsive and responsible bidder substantially exceeds the estimated cost of the goods or service;
- c) When all tenders received fail to comply with the specifications or Tender terms and conditions;
- d) Where a change in the scope of work or specifications is required the lowest or any tender will not necessarily be accepted. The acceptance of a tender will be contingent upon an acceptable record of ability, experience and previous performance.
- e) If the Bidder has abandoned, defaulted, or caused the cancellation of, any contract within the last two years with the Owner (s), the bid will be rejected.
- f) If the Bidder is currently involved in litigation with Owner (s) over a tender issue, their Tender may be rejected.

1.15.2 The Owner(s) shall not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any Bidder by reason of the acceptance or the non-acceptance by the Owner(s) of any tender or by reason of any delay in the acceptance of a Tender except as provided in the Tender document.

1.15.3 Each tender shall be open for acceptance by the Owner(s) for a period of 60 calendar days following the date of Closing.

1.15.4 Where the tender documents do not state a definite delivery/work schedule and a submitted tender is based on an unreasonable delivery/work schedule, the tender may be rejected.

1.16 Tender Award Procedures

Unless stated otherwise the following procedures will apply:

1.16.1 Each Owner will notify the successful Bidder that his/her Tender has been accepted, within 60 calendar days of the Tender closing.

1.16.2 Notice of acceptance of Tender will be by written notice.

1.16.3 Immediately after acceptance of the Tender by the Owner(s), the successful Bidder shall provide the Owner(s) with any required documents within 14 calendar days of the date of notification of award.

1.17 Indemnification

The successful Respondent shall indemnify and hold harmless the Corporation, the Owner(s), its officers and employees from and against any and all liabilities, claims, demands, loss, cost, damages, actions, suits or other proceedings by whomsoever made, directly or indirectly arising out of the project attributable to bodily injury, sickness, disease or death or to damage to or destruction of tangible property caused by any acts or omissions of the Respondent, its officers, agents, servants, employees, customers, invitees or licensees, or occurring in or on the premises or any part thereof and, as a result of activities under this Proposal. Neither the Owner(s) nor the Successful Respondent shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence or for the negligence of anyone other than their own officers, agents, servants, employees, customers, invitees or licensees.

This indemnity shall survive the expiration or early termination of this Agreement and continue in full force and effect.

1.18 Ability and Experience

It is not the purpose of the Corporation of the County of Grey to award this contract to any Bidder who does not furnish satisfactory evidence of possessing the ability and experience in this class of work and sufficient capital and plant resources to ensure acceptable performance and completion of the Tender.

The following criteria will be utilized by the Corporation to determine whether a Bidder is qualified to undertake the award;

- (a) The Bidder's ability and agreement to supply the product
- (b) The Bidder's ability to work effectively with the Corporation staff and other representatives
- (c) The Bidder's history with respect to providing satisfactory results and acceptable cooperation
- (d) The Bidder must have three years' experience in this class of work

A Bidder is invited to provide any additional information it determines will assist the Corporation in using the aforementioned criteria. The Corporation may reject the lowest or any submissions if after investigation and consideration, the Corporation concludes, in its opinion, that the Bidder is not able to supply the product in a manner satisfactory to the Corporation.

1.19 Limited Liabilities

By submitting a bid, each bidder agrees that

- a. neither the Owners nor any of its employees, officers, agents, elected or appointed officials, advisors or representatives will be liable, under any circumstances, for any claim arising out of this tender process including but not limited to costs of preparation of the bid, loss of profits, loss of opportunity or for any other claim; and
- b. the bidder waives any right to or claim for any compensation of any kind whatsoever, including claims for costs of preparation of the bid, loss of profit or loss of opportunity by reason of the County's decision not to accept the bid submitted by the bidder, to enter into an agreement with any other bidder or to cancel this bidding process, and the bidder shall be deemed to have agreed to waive such right or claim.

1.20 Bidder Expense

Any expenses incurred by the Bidder in the preparation of the Tender submission are entirely the responsibility of the Bidder and will not be charged to the Owner(s).

1.21 Protection of Work and Property

The successful Bidder shall provide continuous and adequate protection of all work from damage and shall protect the Owners' property from injury or damage arising from or in connection with this work. The successful Bidder shall make good any such damage or injury.

The Contractor shall not leave any equipment on County property unattended at any time, unless the Owner's give prior approval and such equipment is properly protected to the satisfaction of the County.

1.22 Regulation Compliance and Legislation

The successful Bidder shall ensure all services provided in respect to this Tender are in accordance with, and under authorization of all applicable authorities, Municipal, Provincial and Federal legislation.

1.23 Assignment of Contract

The successful Bidder shall not assign transfer, convey, sublet or otherwise dispose of this contract or his/her right, title or interest therein, or his power to execute such contract, to any other person, company or corporation, without the previous consent, in writing, of the Owner's officials, which consent shall not be unreasonably withheld.

1.24 Cancellation

1.24.1 The Owner(s) reserves the right to immediately terminate the Contract at its own discretion, including but not limited to such items as non-performance, inferior quality work, pricing issues, etc.

1.24.2 If the successful Bidder should neglect to execute the work properly or fail to perform any provision of this Award, the Owner(s), after 3 business days written notice to the successful Bidder, may, without prejudice to any other remedy in existence, make good such deficiencies and may deduct the cost thereof from any payment then and thereafter due to the successful Bidder. Continued failure of the successful Bidder to execute the work properly shall result in a termination of Contract. The Owner(s) shall provide written notice of termination.

1.24.3 The Owner(s) may elect to terminate the Contract if the original terms and conditions are significantly changed, giving 30 calendar day's written notice to the successful Bidder.

1.24.4 Either party may terminate the Contract by giving the other party 60 calendar day's written notice, giving reasons acceptable to the other. A period of less than 60 calendar days to terminate the contract may be

negotiable if mutually agreeable among the parties involved in the Contract.

1.24.5 Failure to maintain the required documentation during the term of this contract may result in suspension of the work activities and/or cancellation of the contract.

1.25 Negotiation

The Owner's reserve the right to negotiate with the lowest compliant bidder.

1.26 Governing Laws

The Terms and Conditions of this document:

- a. are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision);
- b. are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of the County; and are to be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein.

1.27 Freedom of Information

Any personal information required on the Tender Form is received under the authority of the Municipal Freedom of Information and Protection of Privacy Act, 1989, RSO, 1990. This information will be an integral component of the Tender submission.

All written Tenders received by the Corporation become a public record, once a Tender is accepted by the Owner(s), all information contained in them is available to the public, including personal information.

Questions about collection of personal information and the Municipal Freedom of Information and Protection of Privacy Act, 1989, R.S.O. 1990, Chapter M.56, as amended, should be directed to:

Clerk, County of Grey
595 9th Avenue East, Owen Sound, Ontario
N4K 3E3
Telephone (519) 376- 2205

The Clerk has been designated by the Corporation of the County of Grey Council to carry out the responsibilities of the Act.

Section 2 – Specific Conditions

2.1 Award

All work will be awarded as a whole.

All items must be completed in full. The lowest bid or any Tender may not necessarily be accepted.

2.2 Budget Approval

Award is subject to approved budget amounts. The Corporation of the County of Grey and the Corporation of the County of Dufferin reserve the right to delete a schedule or reduce an item's length within a schedule without penalty.

2.3 Pricing

No alterations, additions or deletions from the accepted Tender price will be permitted without the prior written approval of the Owner(s).

2.4 Subcontractors

- (a) Bidders shall submit a list of their proposed Subcontractors containing the names of the Subcontractors which the Bidder proposes to use to perform work under the Contract and the division or section of Contract Work to be completed by each Subcontractor.
- (b) Bidders shall ensure that all Subcontractors selected and named have experience in the Subcontract work described, have submitted their Subcontract prices in strict accordance with the Bid Documents, and that they will execute their work with competence and within the required time frame.
- (c) Bidders shall ensure that all Subcontractors submitting bids shall be actively engaged in work of the type described and shall be able to show proof upon request by the Owner of previous work of similar nature performed by them.
- (d) Bidders shall not show "Own Forces" in their list of proposed Subcontractors, except where the Bidder's intent is to employ the Bidder's own qualified on-staff personnel to perform such work.
- (e) Bidders shall not indicate "TBD" (To Be Determined) or "TBA" (To Be Announced) or similar wording and shall not indicate multiple choices of Subcontractor names for any Subcontractor category in their list of proposed Subcontractors. One Subcontractor name shall be indicated for each Subcontractor category.

- (f) Bidders shall list in their list of proposed Subcontractors, all of the Subcontractors who will perform work on the Project.
- (g) No names, either of Subcontractors or “Own Forces” may be changed after submission of the list of proposed Subcontractors unless prior written approval is received from the Owner. Such approval will only be considered after receipt by the Owner of a written request for the change by the Bidder with a full explanation of the reasons for the requested change and a letter from the previously named Subcontractor agreeing to withdraw its bid with no consequences to the Owner.
- (h) The Owner reserves the right to reject a proposed Subcontractor for reasonable cause. Upon such rejection, the Bidder will be required to propose an alternate Subcontractor and to identify any resulting change to the Bid Price. This change can affect the status of the low Bid and may result in a different Bid becoming low.

2.5 Performance – Schedules A, B and/or C

Any undue delays and/or costs incurred by the Owner(s) due to inefficiencies in performance shall be deemed to be the responsibility of the successful Bidder and as such will be deducted from the payment for work and or the performance deposit.

2.6 Failure to Perform

Failure of the Contractor to perform in accordance within listed specifications will void the contract.

2.7 Bid Deposit

Each bidder shall upload a bona fide PDF copy of a Bid Deposit in the form of a Bid Bond from a Surety Company authorized by law to carry out business in the Province of Ontario made payable to the Corporation of the County of Grey drawn on a Canadian Chartered Bank, Trust Company or Credit Union located in Ontario, in the amount of:

Ten Percent (10%) of Total Bid (rounded up to the nearest cent)

The original Bid Deposit, will be provided to the County at the bidder’s expense, should the County request it, within 48 hours of the tender close.

The Bid Deposit shall be forfeited should the successful Bidder choose not to accept the award of the contract or fail to return to the Corporation/Municipality, within 14 calendar days of receipt of the acceptance of the award, the General Liability Insurance, WSIB certificate of clearance or any further requested securities.

2.8 Agreement to Bond

Each bidder shall upload a bona fide PDF copy of an Agreement to Bond form, jointly executed by the Bidder and the surety company from which the bonds will be obtained. The successful bidder will be required to submit Performance Surety in the form of a Performance Bond and a Labour and Materials Bond within 14 days of award.

2.9 Performance Surety

The successful Bidder(s) shall be required to provide and assume all costs for the provision of Performance Surety for both the County of Grey and the County of Dufferin (through a dual obligee rider), prior to the execution of a contract or the issuance of a signed Contract Agreement. Such surety shall be in the amount of:

Fifty Percent (50%)

of the total bid amount and be in the form of a Performance Bond from a Surety Company authorized by law to carry out business in the Province of Ontario and acceptable to the Corporation.

The Corporation will retain the Surety of the successful Bidder as a performance security for the duration of the Contract. The contract period will be from award to the completion of work to the satisfaction of the Corporation.

The Owner(s) will access funds from the performance deposit at any time where damages or additional costs are incurred at their discretion.

2.10 Labour and Materials Bond

The successful Bidder shall be required to provide and assume all costs for provision of a labour and materials bond for both the County of Grey and the County of Dufferin (through a dual obligee rider) prior to the execution of a contract. Such bond shall be in the amount of:

Fifty Percent (50%)

of the total bid amount and be in the form of a Labour and Materials Bond from a Surety Company authorized by law to carry out business in the Province of Ontario and acceptable to the Corporation.

The Corporation will access funds from the Labour and Materials Bond if all payments have not been paid to each claimant as necessary.

2.11 Extra Work

No work shall be regarded as extra work, unless it is ordered in writing by the Owner(s) and with the agreed price for the same specified in said order, provided said price is not otherwise determined by this Tender. A statement of the cost of extra work shall be made within 30 calendar days after the completion of the said extra work.

2.12 Harmonized Sales Tax (HST)

H.S.T. is applicable to the item(s) listed, however, is not to be included in the tendered unit cost. Please tender all prices "HST Extra".

2.13 Terms of Payment/Proper Invoice

Schedule 'A' invoices will be forwarded for payment to the County of Grey, Schedule 'B' & 'C' invoices will be forwarded for payment to the County of Dufferin.

The Construction Act has been updated: [Link to Updated Construction Act](#)

Invoices shall be forwarded to the attention of the Owner(s) on a monthly basis. Upon receipt of a proper invoice, the Owner(s) will pay the amount due within 28 days unless either/each Owner delivers a notice of non-payment, which will set out the amount not being paid and all of the reasons for not paying. A notice of non payment will be sent via email on the form shown in the following link: [Link to notice of non-payment form](#) The Owner(s) will pay the contractor all amounts that are not otherwise identified in the non-payment notice.

A proper invoice will include the following:

- The contractor's name and address;
- The date of the proper invoice and the period during which services or materials were supplied;
- Information identifying the authority under which services or materials were supplied;
- A description including quantity of the services or materials supplied;
- The amount payable for services or materials supplied and payment terms;
- The name, title, telephone number and mailing address of the person to whom payment is to be sent

2.14 Holdback

All invoicing shall be less a 10% holdback. If a 10% holdback has not been applied to the invoice, the Corporation shall deduct 10% of the invoice for holdback purposes.

The Contractor shall be responsible to apply for, and publish, (at the Contractors expense), a copy of the Certificate of Substantial Performance as per GC 8.02.03.04. Release of said holdback shall be made to the Contractor after the stipulations as noted within GC 8.02.03.05.04 have been satisfied. A proper invoice must be received with said amount to release any holdback funds.

A notice of non payment of Holdback will be sent via email on the form shown in the following link: [Link to Notice of Non Payment of Holdback form](#)

2.15 Warranty Holdback (Schedules B and C only)

For warranty purposes the County of Dufferin will retain a Maintenance Security Holdback to be calculated as 2% of the total value of the Work performed and Material supplied. The 2% will be retained when the 10% holdback is released. Should the Contractor fail to comply promptly or any other obligations under the Contract, the County of Dufferin may make arrangements for performance of any necessary work or other completion of the Contractor's obligations and recover the costs from the monies retained as Maintenance Security Holdback, or otherwise collect the cost from the Contractor. The Maintenance Security Holdback, less any deductions made therefrom as provided for in the Contract, will be released to the Contractor upon the expiration of the contract warranty period. The County of Dufferin will not pay any interest on monies being withheld as Maintenance Security Holdback.

The Contractor shall correct promptly, at no additional cost to the County of Dufferin, defects or deficiencies in the Work that appear,

- a) prior to and during the period of 24 months from the date when the surface asphalt has been accepted by the County of Dufferin and substantial completion is in place for the entire contract, or
- b) such longer periods as may be specified in the Contract Documents for certain materials or some of the Work.

The Contract Administrator shall promptly give the Contractor written notice of observed defects or deficiencies.

2.16 Liability Insurance Schedule 'A'

The successful bidder shall, at its expense, obtain and keep in force during the term of this Agreement, Insurance satisfactory to the County of Grey, including the following and underwritten by an insurer licensed to conduct business in the Province of Ontario:

- (a) Commercial General Liability with a limit of liability of not less than \$10,000,000/occurrence, including:
 - i) The Owner named as an additional insured including a provision for cross liability
 - ii) Non-owned automobile coverage
 - iii) Products and completed operation coverage
- (b) Sudden and Accidental Pollution coverage with a limit of at least \$2,000,000
- (c) Automobile liability insurance under a standard Automobile policy with limits of not less than \$5,000,000 in respect of each owned or leased vehicle
- (d) That 30 days prior notice of an alteration, cancellation or material change in policy terms which reduces coverages shall be given in writing to the Owner

2.17 Liability Insurance Schedules 'B' & 'C'

The successful bidder shall, at its expense, obtain and keep in force during the term of this Agreement, Insurance satisfactory to the County of Dufferin, including the following and underwritten by an insurer licensed to conduct business in the Province of Ontario:

- (e) Commercial General Liability with a limit of liability of not less than \$10,000,000/occurrence, including:
 - iv) The Owner named as an additional insured including a provision for cross liability
 - v) Non-owned automobile coverage
 - vi) Products and completed operation coverage
- (f) Sudden and Accidental Pollution coverage with a limit of at least \$2,000,000
- (g) Automobile liability insurance under a standard Automobile policy with limits of not less than \$5,000,000 in respect of each owned or leased vehicle
- (h) That 30 days prior notice of an alteration, cancellation or material change in policy terms which reduces coverages shall be given in writing to the Owner

2.18 Certificate of Insurance

Within 14 days of Award, the successful Bidder shall provide the County with a Certificate of Insurance acceptable to the County and, if requested by the County, certified copies of the insurance policies. The Certificate of Insurance must comply with the insurance requirements outlined in this Tender. If the Certificate of Insurance is provided in a non-original form (e.g. scanned electronic copy), the Bidder acknowledges and agrees that the County is fully entitled to treat any such Certificate as an original and that the Bidder will be responsible for the accuracy and validity of the information contained therein.

2.19 Health & Safety and Workplace Safety & Insurance Board (WSIB)

The successful bidder is responsible for all costs associated with its workplace accidents and all premiums or assessments owing to the Workplace Safety and Insurance Board (WSIB) for its own employees.

The successful bidder shall, throughout the Term of the Agreement, maintain WSIB Clearance Certificates for itself, its employees, subcontractors and subcontractors' employees under the Workplace Safety and Insurance Act.

The successful bidder shall comply with the Occupational Health and Safety Act (Ontario), the Workplace Safety and Insurance Act (Ontario), the Human Rights Act, (Ontario), and applicable regulations under such legislation and all other legal obligations with respect to worker health, safety and treatment.

The successful bidder shall notify the Owner as soon as practical of any workplace injuries.

2.20 Ontario College of Trades and Apprenticeship Act

All trades persons shall be certified trade personnel, qualified apprentices or labourers in the respective area of work for which they are employed and provided in proportion to the requirements of the applicable legislative requirements in the Province of Ontario. The Owner reserves the right to reject personnel from working on the site that are deemed to be unqualified or inexperienced in the line of work for which they are employed. The County of Grey and the County of Dufferin is committed to safer worksites and adherence to health and safety standards.

2.21 Daily Activity Logs

The Owner(s) recommend that the successful Bidder keep daily activity logs including but not limited to the date of service, maintenance details, weather conditions and any other information deemed to be relevant to protect itself against potential litigation.

The Owner(s) require a standard log form to be completed daily. The form will be brought forward at the pre-construction meeting.

2.22 Basis for Payment

The Owner(s) shall reimburse the Contractor for each unit listed within the Tender.

No allowance shall be made for travel time to and from the job site.

2.23 Damage by Contractor

The Contractor shall make financial compensation before the end of this contract at his own expense for any damage caused by his work to any material, equipment, and property located on the project.

2.24 Tender Selection and Evaluation Criteria

The acceptance of a Tender will be contingent upon, however not limited to, the following considerations:

- Compliance with the Tender process;
- Ability to meet or exceed all specifications and requirements;
- Quoted Price;
- Ability and Experience.

2.25 Inquiries

Dennis Dalton, Senior Engineering Technologist
County of Grey
(519) 372-0219 ext. 1393
595 9th Avenue East
Owen Sound ON N4K 3E3
dennis.dalton@grey.ca

Sharon Melville, Buyer
County of Grey
(519) 372-0219 ext. 1244
595 9th Avenue East
Owen Sound ON N4K 3E3
sharon.melville@grey.ca

Bidders shall submit inquiries in writing copying both contacts.

Questions of clarification will be answered individually, but response(s) to any question that modifies the scope of the Request for Tender will be circulated in writing as a Request for Tender Addendum to all registered document takers who have received the Request for Tender document from the Corporation.

Inquiries must be received no later than 4:30 PM, 3 business days prior to closing; otherwise a response may not be provided.

Section 3 – General Provisions

Project Scope - Schedule A

Grey Road 9 – 8.9 km of pulverizing and hot mix paving from the Melancthon-Osprey Townline (Dufferin County Road 9), easterly to Grey Road 124.

The scope of work is as follows:

- 150mm pulverizing
- 60mm HL-8 base course
- Tack coat
- 40mm HL-3 surface course
- Centreline culvert removal and replacement
- Shoulder Gravel
- Pavement Marking
- Curb and gutter

Schedule of Award

Activity	Scheduled Date
Tentative Council Award of Project	Thursday May 14, 2020

Completion of Work

The following list of dates indicates the required start and completion dates:

Start Date (Earliest)	Final Completion Date (latest)
Monday July 6, 2020	Friday September 4, 2020

Any costs incurred from the requirement of additional shifts is considered to be included in the bid price.

After Substantial Performance has been approved by the Contract Administrator, the Contractor shall progress toward final completion. The final completion date will be the end of day of the date specified.

An extension of time may be granted in writing by the Owner(s) in the event of the work being delayed beyond the substantial performance date or the completion date. Such extensions shall be set with fixed terms by the Owner(s). An application for an extension of time must be made in writing by the Contractor to the Owner at least seven (7) business days prior to the dates specified. The date of expiry of all bonds or other surety furnished to the Owner(s) by the Contractor shall be extended, at the expense of the Contractor, to at least two (2) months beyond the extended date of completion, and the Contractor must furnish the Corporation with evidence of such extension of the bond or other surety.

In the event of the Corporation granting an extension of time, time shall continue to be deemed to be the essence of this Contract.

Mix Designs

The Contractor shall be responsible to prepare asphalt mix designs in accordance with OPSS 310 and OPSS 1150.

Asphalt Cement

All asphalt within this contract shall use 58-28 Performance Graded Asphalt Cement. A sample must be provided to the County if requested.

RAP Content

- **up to 10% RAP is permitted in the HL-3 surface course mix**
- **up to 10% RAP is permitted in the HL-8 base course mix**

Confirmation of Material Quantities

All material weigh tickets delivered to the site as per OPSS 310.09.01.01.01 must be from certified weigh scales.

The Contractor agrees that all material weigh tickets from each individual delivery vehicle must be handed directly to an inspector prior to dumping. Payment for material will only be made based on the quantities printed on the tickets handed to the County Inspector. If loader scales are used for granular materials, a weigh ticket for each truck load must also be provided to the inspector upon material delivery to the site; (hand-written tickets are acceptable - if the ticket is illegible, no payment will be made.)

The Contractor also agrees to summarize the quantity of weighed material hauled and placed daily and to provide a copy of the summary to the inspector on site on a daily basis. The summary amount must equal the total amount of tickets received for that day.

Any changes within item quantities must be verified by field measurements or survey calculations. All changes must be discussed and agreed to with the Lead Hand Inspector as soon as the Contractor is aware of them. All costs associated with layout and contract item quantity verification will be included within the appropriate Item(s).

All material supplied will be subject to acceptance by the County Inspector. Any material that is different from the material specified in this contract will not be accepted, and if placed must be removed.

Longitudinal Joints

Longitudinal joints shall correspond to the demarcation between the driving lanes, shoulders, and tapers and/or as detailed in the contract drawings and shall be constructed as per OPSS 310.

Transitions and Transverse Joints

Transitions and transverse jointing as detailed in the contract drawings and/or OPSS 310 must be included in the tendered unit price bid per tonne for hot mix asphalt and must include all labour, material and equipment to construct the transitions and joints.

The contractor must use a 3.0m straight edge to construct joints to specification. **Failure to use a 3.0m straight edge will result in an immediate deficiency penalty.**

Transitions and transverse joints must not be located within horizontal curves including the run-in and run-out regions.

Asphalt Paver

The asphalt paver must be capable of completing a **5-metre-wide spread** with one pass.

Paving of Intersecting Roads and Existing Private Entrances

Intersecting roads and existing private entrances shall be paved as identified in the contract drawings, or field fit and paid per tonne of asphalt under the asphalt item. There will be no additional payment for handwork.

Under the direction of the Lead Hand Inspector, field conditions may take precedence over contract drawings. Asphalt placement must utilize as much of the platform as is reasonable at the radii.

Re-grading of Intersecting Roads and Private Entrances

Intersecting roads and private entrances must be regraded to meet the finished grade of the County road. The entrance, including the shoulders and foreslopes of the ditch, must be graded to properly direct surface water drainage to the ditches. The entrance must be accessible to vehicles at all times throughout the duration of the contract.

Pavement Marking

The Contractor must record all pre-existing pavement marking prior to disturbing the existing bituminous road surface.

The Contractor's line painting subcontractor must analyze the existing line markings for accuracy and shall correct the existing line marking and reinstate as calculated to OTM Book 11 based on a 90 km/h design speed.

The contractor shall arrange an on-site pre-painting meeting with the painting subcontractor and the County Inspector prior to commencing pre-marking and/or painting to verify accuracy.

Quality Assurance

The Contractor is responsible for all Quality Control regarding material placement and compaction.

Grey County will be providing a Quality Assurance Consultant to:

- test particle size distribution of granular materials
- confirm in-place granular material compaction
- confirm in-place asphalt compaction
- review the asphalt mix design
- perform concrete properties testing

Asphalt

The Contractor must supply the hot mix asphalt mix design to the County at least seven (7) days prior to the scheduled construction start date.

Quality assurance samples will be taken and packaged by the contractor (at times and locations as identified by the inspector on site) as per OPSS 310 Table 6. These samples will be received on site by the Quality Assurance Consultant for Grey County.

Samples shall be obtained as per 310.07.05.02 of OPSS 310. Alternative methods of obtaining samples must be approved by the County of Grey.

If asphalt samples are not collected, or collected by an unapproved method, all asphalt placed will be considered rejectable and subject to replacement under a warranty claim.

Granular Material

The Contractor must supply granular proctor test results to the County at least seven (7) days prior to the scheduled construction start date.

If granular materials fail in-situ testing, the failing material shall be removed and replaced at the expense of the Contractor.

Material Transfer Vehicle

The County requires the use of a material transfer vehicle (MTV or shuttle buggy) for the placement of surface/wearing course asphalt paving. An MTV may be used for base course paving but is not required. Payment for the use of the MTV shall be included in the unit price of Hot Mix Asphalt. Any asphalt placed as a surface/wearing course without the use of an MTV will be considered rejectable and subject to replacement under a warranty claim.

The MTV must transfer asphalt directly from the truck to the spreader. The Contractor must have the production capacity and must schedule trucks to ensure a constant supply of asphalt to the MTV to keep the asphalt spreader moving.

Failure to do so WILL result in deficiency penalties, and may result in a negative performance rating, and may impact the Contractor's ability to bid on future projects.

String-line

Paving locations must be completely laid out prior to placement to allow for County inspection.

Stringlines must be used throughout the contract.

It is the responsibility of the contractor to apply and remove the stringline.

Traffic Control and Signing

The Contractor will be responsible for all traffic control, signage, detour route signage and required devices in accordance with current Ontario Traffic Manuals. Two-way traffic must be maintained at all times.

If, in the opinion of the Contract Administrator, conditions arise where the road must be completely closed to through traffic, the contractor must erect appropriate signage and barricade any open excavations.

During a road closure:

- the road must be made passable to local and emergency traffic at the end of each construction day.
- traffic control must be in place for local traffic to access privately owned entrances.

The Contractor must inform all outside emergency agencies (i.e. O.P.P., Fire, Ambulance, etc.) of any traffic restriction, lane closures, or road closures the day prior to the actual time of the restriction or closure.

The Contract Administrator or the Contractor shall reserve the right to alter, or add to the traffic control plan, for greater safety within the work area.

Mailboxes

Mailboxes must remain accessible to mail delivery vehicles during construction operations on both open and close roads and traffic control must be in place to direct mail delivery vehicles safely.

As part of the final cleanup, the Contractor shall adjust the height of mailboxes impacted by construction to meet current Canada Post requirements. The Contractor shall replace posts as required with standard cedar posts or pressure treated 4x4's and shall be compensated on a time and material basis as preapproved by the onsite inspector. If individual property owners prefer not to have a standard post placed by the contractor, all costs associated with materials and installation will be borne by the property owner.

Management of Excess Materials

All existing earth and granular materials excavated from the site shall be removed and disposed of as per OPSS 180.

Excess topsoil stripped from existing road foreslopes and ditches may be re-used and placed on road foreslopes.

Operational Constraints

Access

All entrance access/egress within the contract limits must be maintained at all times complete with traffic control. The Contractor shall coordinate any temporary entrance closures with the occupant requiring access to the property. The Contractor shall advise the onsite Inspector of all arrangements made with the occupants. The Contractor must not use private entrances – including field entrances - to park temporarily, or to store equipment or materials.

Locates

The contractor must arrange to have locates marked prior to the contract start date. No extension to the contract completion date will be granted as a result of delayed locates.

Permits

Responsibility to acquire permits prior to commencing construction work will be allocated as follows:

- Conservation Authority – County
- Permit to Take Water or EASR (for dust control) - Contractor

Fees for all permits will be accepted by the County.

Guide Rail

The installation of guiderail (3 cable or steel beam) and associated anchor blocks must take place prior to paving.

Reconstruction

Road reconstruction operations involving material to be removed or placed shall be completed prior to paving. This includes: cuts/fills, slope construction, ditching, topsoil application (not including shoulder topsoil if applicable), or any other operation required to completely build the road section up to granular grade (top of base).

No heavy equipment will be allowed to operate on placed hot mix asphalt – either base or surface courses. Rubber tired heavy equipment may be permitted with the permission of the County Lead Hand Inspector.

Layout of Work Area

The Contractor shall be fully responsible for all layout of grades and alignments that are required to perform the work.

As part of the work under all items, prior to commencing pulverizing and/or removals, the Contractor shall stake out the existing horizontal alignment. The stakes must be placed outside the working area at right angles to centreline at a consistent offset in order to reinstate centerline. The distance between stakes shall not exceed 40 m on tangent sections, 10 m on horizontal curves, and 10 m where vertical curve reconstruction is required. The Contractor shall document existing superelevation on curves and submit a copy to the Contract Administrator.

Layout stakes must protrude a minimum of 450 mm above the adjacent grade and show relevant station (as per the contract documents) and offset. Stakes shall not be placed more than 2 weeks prior to scheduled construction.

Any changes within Item Quantities must be verified by field measurements or survey calculations. All changes must be discussed and agreed to with the Contract Administrator as soon as the Contractor is aware of them. All costs associated with layout and contract item verification will be included within the appropriate Item(s).

Location and Storage of Material and Equipment

Materials and equipment must not be stored within 4 m of the traveled portion of any roadway.

The Contractor shall, at the Contractor's expense, remove any vehicle, equipment or material which, in the opinion of the Contract Administrator, constitutes a hazard or obstruction.

The Contractor must arrange permission with property owners prior to accessing private land for any reason.

Hours of Work

All work shall be carried out during normal dawn to dusk daylight hours. No work shall take place on weekends or statutory and civic holidays without written consent of the Contract Administrator.

Work Schedule

The successful Bidder agrees to submit to the Corporation a construction schedule of operations indicating the proposed method of construction and sequence of work and the time the Contractor proposes to complete the various items of work within the time specified in the contract documents a minimum of one (1) week prior to construction. An updated schedule outlining any changes shall be provided at the bi-weekly meetings. The Contractor will confirm commencement of construction 72 hours prior to arrival on site.

Mandatory Meetings

The Contractor shall commit to the following meetings:

- one pre-construction meeting to confirm all issues are clarified prior to construction.
- bi-weekly (every other week) site meetings to review the status of the schedule, review updates to the schedule, address any additional or extra work, and review the status of overall progress.
- one pre-paving meeting to confirm the paving requirements (all paving contractors or sub-contractors must have a copy of the tender document and the design drawings to be prepared for this meeting).
- one pre-pavement marking meeting to confirm the requirements of the painting sub-contractor (the contractor must provide the sub-contractor with a copy of the

tender document and the design drawings so that they may be prepared for this meeting).

- A final walkthrough of the site to identify any deficiencies and/or repairs required.

Maintenance of The Work Area

The Contractor must maintain the roadway as detailed in OPSS.MUNI 100 General Conditions of Contract (GC).

In addition to the GC requirements, the Contractor must supply the County with an emergency contact person who will be available 24 hours a day to respond to any maintenance situation that requires a response from the Contractor to keep the site open to traffic in a safe and passable condition. The Contractor will check the condition of the work site a minimum of one time on any weekend during the duration of the contract and additional times if inclement weather occurs. Response to any maintenance issues/requirements that arise shall be made within 4 hours of notification by the County or their representative. Failure to respond as requested will result in a penalty being applied in the amount of \$200.00 for each and every hour after the initial 4 hours expires. Examples of maintenance requirements are: grading of the roadway to rectify potholing, repair of washouts as a result of a storm event, applying water for nuisance dust control.

The contractor must collect residential garbage and recycling and arrange with the municipality to deliver it to a suitable location for municipal pick-up.

Damage to Property

The Contractor shall be solely responsible for repairing damage to County property or to private property and/or the entrance to private property that occurs from the Contractor's operations taking place within the limits of this contract.

Appendix 310-B, Payment Adjustment for Changes in the MTO Performance Graded Asphalt Cement Price Index

Appendix 310-B is invoked for all schedules contained in the tender document.

Liquidated Damages

It is agreed by the parties to the contract that if all work under the contract is not finished within the specified time, damage and/or inconvenience will be sustained by the County, therefore, the contractor shall pay the County the sum of one thousand dollars (\$1,000) per day for liquidated damages for each and every day required beyond the completion date specified.

Deficiency Penalties

The Contractors attention is drawn to the following situations that will incur financial penalties deducted from contract payments if they are not addressed immediately upon the Contractor being made aware, except for extenuating (solely at the Owners discretion) circumstances:

- Paving operation sitting idle due to trucking/production not keeping up with spreader or, inversely, spreader moving too quickly, running out of material and being forced to stop.
- Traffic control not in conformance with current OTM requirements;
- Failure to supply summary sheets for material or other paperwork in a timely fashion as detailed in the contract.
- Substandard equipment that does not meet the specifications or operate as designed, (e.g. no skirts on rollers).
- Contractor employees not wearing proper PPE (Personal Protective Equipment)
- Failure to have competent, knowledgeable supervision on site at all times.
- Not providing proper facilities on site as required under the Occupational Health and Safety Act.
- Excessive dust
- Excessive paving joints (more than 1 per lane km)
- Failure to maintain erosion control measures
- Failure to attend scheduled meetings with Grey County personnel.
- Failure to provide a contract schedule when requested by the Contract Administrator
- Failure to address post construction clean-up issues.
- Financial penalties will be assessed for each occurrence of any of the above noted deficiencies on the following basis:
 - \$100.00 for first two offences
 - \$200.00 for third offence
 - \$500.00 for all remaining offences

Financial penalties will accumulate daily. If a first offence on any violation is not addressed immediately, the day after the violation will be considered a second offence, and the day after that will be considered the third offence and so-on.

Deficiency penalties may be levied throughout the duration of the contract, including after substantial performance, daily, until the deficiency has been addressed.

Additionally, failure to supply crossfall checks 24 hours prior to paving, or the grader working less than 1000 m ahead of paving, will result in an immediate \$1000.00 penalty.

Performance Evaluations

The Owner shall evaluate the performance of the Contractor a minimum of once per year and/or when the Contract is completed or terminated. The Contractor's performance shall be rated on a scale of 0-4 (0-poor, 1-below standard, 2-standard, 3-above standard and 4-excellent) under the following categories:

- Administration
- Adherence to Specifications and Special Provisions
- Public Relations
- Condition and Sufficiency of Equipment
- Safety Procedures
- Organization, Co-ordination and Efficiency
- Environmental Compliance

The performance rating shall be determined based on the everyday performance of the Work, quality assurance test(s), letters, and Written Instructions to the Contractor.

A copy of the completed Contractor's Performance Report shall be sent to the Contractor. If the Contractor disagrees with any portion of the Contractor's Performance Report, he shall advise the Contract Administrator of his specific objections, in writing, within twenty (20) days of the date of the report.

Once an objection is received the Contract Administrator shall advise the Contractor, in writing, within twenty (20) days of the date of the objection if the objection has been dismissed and the reasons or affirm all changes to the Contractor's Performance Report.

If the Contractor is evaluated as poor or below standard in three categories or very poor in two areas, the Owner may disqualify the Contractor from Bidding on County Contracts for a period of up to two years from the date the Contract was completed or terminated. The length of the termination will depend on the nature of the unsatisfactory performance.

If the Contractor is evaluated as poor or below standard in two or more evaluation categories on two Contractor's Performance Reports, of different contracts, within twelve months, the Owner may disqualify the Contractor from Bidding on County Contracts for a period from three months to two years from the date of the completion or termination of the last Contract. The length of the termination will depend on the nature of the unsatisfactory performance.

The decision of the Owner in respect of the Contractor's Performance Report shall be final and binding for all purposes.

Section 4 - Special Provisions – Schedule A

All labour, methods, material, and equipment required to complete the work, including traffic control and the removal of any materials or items, shall be included in the bid price for each of the following items.

Any removed or surplus material or items shall be disposed of as per the requirements of OPSS 180.

Item No. 1. – Granular Sealing – Hand Sprayed

Reference: OPSS.MUNI 305

- apply 1.0 m wide to the granular shoulder and rounding at guide rail and at specified intersection radii as per the contract drawings.
- material must be RC-30 applied as per the requirements of OPSS 305
- prior to application:
 - the granular surface must be graded away from the asphalt toward ditches
 - granular irregularities must be raked smooth to prevent damming of surface water runoff
 - any washed-out areas of shoulder must be repaired
 - weed growth (if any) must be removed 1.0m back from finished edge of pavement
 - the granular surface to receive sealing must be dampened immediately prior to application as per OPSS 210.070

Item No. 2. – Tack Coat

Reference: OPSS.MUNI 310

- apply as per the requirements of OPSS 310
- tack coat shall be applied to any milled surface and the base course asphalt immediately prior to paving
- paving and construction equipment shall not be permitted onto the tack coat until it has broken and set
- apply tack coat to:
 - full width of the base course
 - vertical faces of asphalt at terminations, longitudinal, and horizontal joints
 - vertical faces of mating faces between asphalt and concrete curb and gutter, and asphalt and metal frames.

Item No. 3. – HL-3 Surface Course Asphalt

Reference: OPSS.MUNI 310

- place and compact asphalt as per the contract drawings at:
 - travel lanes
 - paved shoulders

- intersecting roads
- paved entrances
- longitudinal joints must be located at the demarcation of: travel lanes, paved shoulders, and tapers
- if possible, a single paving pass should include the travelled lane, paved shoulders, and up to the face of guiderail posts to eliminate any longitudinal joints
- **the use of a MTV is required**, and the spreader speed shall be coordinated to plant production to keep the spreader moving
- only pneumatic rubber-tired rollers may be used as finish rollers, steel drum rollers must not be used as finish rollers
- grade granular material up to the new edge of pavement prior to opening pavement to traffic as per the requirements of OPSS 314.07.03

Item No. 4. – HL-8 Base Course Asphalt

Reference: OPSS.MUNI 310

- place and compact base course asphalt as per the contract drawings at:
 - travel lanes
 - shoulders
 - intersecting roads
- no paving shall take place until all elements of the new road section that are to receive asphalt paving have been completely constructed to the satisfaction of the County Inspector
- pave up to the face of guiderail posts
- the use of a MTV is not required for the application of the base course but may be used at the discretion of the Contractor
- grade granular material up to the new edge of pavement prior to opening pavement to traffic as per the requirements of OPSS 314.07.03

Item No. 5. – Granular ‘A’

Reference: OPSS.MUNI 314

Roadway

- place, grade and compact granular ‘A’ at:
 - shoulders and rounding as depicted in the contract drawings
 - bedding and backfill at culvert installations
 - intersecting roadways and shoulders to ensure smooth transitions from the new County road surface to the existing intersecting road surface
 - at private entrances to match the new County road elevation and granular shoulders
- grade all locations to provide appropriate drainage to roadside ditches

Item No. 6. – In-Place Full Depth Reclamation of Bituminous Pavement and Underlying Granular (Pulverizing)

Reference: OPSS.PROV 330

- pulverizing shall include the area of all bituminous material and be completed as per the typical section in the contract drawings and shall extend into intersections as detailed in the contract drawings or as directed by the County Inspector
- existing bituminous material shall be reclaimed to a depth of 150 mm
- the average thickness of the existing asphalt is 60 mm
- transitions to intersecting roadways and entrances must be pulverized to ensure a smooth profile from the road to the entrance
- grade and compact pulverized material to ensure smooth transitions at all intersecting roadways and granular entrances
- **pulverized material must be shaped and compacted to the design cross section prior to adding any additional Granular 'A'**
- submit completed and signed form OPSF 314-1, as per 314.07.09, to the County Inspector for the granular crossfall 24 hours prior to paving during regular business hours (grade checks must be completed at staked layout locations throughout the project limits)
- crossfall grade must not differ longitudinally by more than 0.5% of the design crossfall over 20 m
- crossfall grade must equal 2% from centerline to edge of pavement ($\pm 0.2\%$)

Item No. 7. – Mountable Concrete Curb with Wide Gutter

Reference: OPSS.MUNI 353

- install as detailed in the contract drawings complete with 45° end of run outlet
- provide concrete mix design to County Inspector for review 10 days prior to placement
- Back of curb must be supported with compacted Granular A prior to the placement of asphalt.

Item No. 8. – Pipe Subdrains (150mm Perforated)

Reference: OPSS.MUNI.405

Install as per contract drawings including:

- filter sock
- 19mm clear-stone bedding and backfill
- geotextile
- caps and fittings
- 150mm galvanized non-perforated outlet pipe complete with rodent grates
- u-flange delineator at outlet

Item No. 9. – 450 mm HDPE Centreline Pipe Culverts

Reference: OPSS.MUNI.421

Culvert replacement is required at:

Station	Culvert No.	New Length (m)	Frost Treatment OPSD
4+683	58	15	803.031
Total Length		15	

Item No. 10. – 600 mm HDPE Centreline Pipe Culverts

Reference: OPSS.MUNI.421

Culvert replacement is required at:

Station	Culvert No.	New Length (m)	Frost Treatment OPSD
0+003	50	16	803.031
0+394	51	18	803.031
1+887	52	18	803.031
Total Length		52	

Item No. 11. – 1780x1360 mm Corrugated Steel Pipe Arch Centreline Pipe Culverts

Reference: OPSS.MUNI.421

Culvert replacement is required at:

Station	Culvert No.	New Length (m)	Frost Treatment OPSD
2+678	54	16	803.031
Total Length		16	

For Items: 9, 10, 11

Reference: OPSS.MUNI 421, OPSD 802.010, OPSD 803.030, 805.020

- HDPE culverts pipes must have a minimum stiffness of 320 kPa
- Corrugated Steel Pipe Arch culvert sizes are Supplier dependent. The Contractor shall receive confirmation from the CA that the proposed sized are approved as an equivalent prior to placing the order.
- Culverts must be placed symmetrically around centerline of the County road, or as detailed in the contract drawings
- Install pipe culverts as per OPSD 802.010 and for estimating purposes assume Type 2 soils for excavation and installation
- Install corrugated steel pipe arch culvert as the manufacturer installation guide or, per OPSD 802.010, whichever is more conservative. For estimating purposes assume Type 2 soils for excavation and installation
- Culvert pipe inverts shall match the elevation of the existing pipe, or as detailed on the contract drawings – if the field invert elevation required to achieve drainage

differs from the invert elevation on the contract drawings, the field measurement must be used

- Notwithstanding the provided or measured invert elevation, culvert pipe inlets must be embedded below the bottom of the natural watercourse by 10% of the diameter of the pipe and invert elevations must be field adjusted to achieve this while maintaining the correct flow direction
- Bedding and backfill, including material required for frost treatment, shall be Granular 'A' and shall be paid under the Granular 'A' item
- Following the approval of the County Lead Hand Inspector, 19 mm clear stone may be used for bedding in wet excavations and shall be paid under the contingency item for 19 mm clear stone
- R-10 Rip Rap or G-10 Gabion Stone (OPSS.MUNI 1004, Table 8), as shown on contract drawings, shall be placed at and around the inlet and outlet ends of each centreline crossing culvert and shall be paid under the rip-rap item.

Item No. 12. – Removal of Centreline Pipe Culverts

Reference: OPSS.MUNI 510

Centreline culverts are to be removed at:

Station	Culvert No.	Existing Dia. (mm)	Existing Material	Existing Length (m)
0+003	50	600	CSP	16
0+394	51	600	CSP	18
1+887	52	600	CSP	18
2+678	54	1900x1050	CSPA	15
4+683	58	450	CSP	14
6+610	60C	450	CSP	17
Total Length				98

The Contractor shall record the invert elevations prior to removal of the existing pipes.

Item No. 13. – Removal of Storm Sewer Structure

Reference: OPSS.MUNI 510

- Catch basin located at civic address entrance 269424 to be removed and disposed of in its entirety.

Item No. 14. – Removal of Storm Sewer Pipe

Reference: OPSS.MUNI 510

- Storm sewer pipe located at civic address entrance 269424 to be removed and disposed of in its entirety.

Item No. 15. – Removal of Cable Guide Rail

Reference: OPSS.MUNI 510

- anchor blocks are to remain
- completely remove and dispose of all elements above and below grade
- backfill any remaining post holes with compacted Granular 'A' (Granular 'A' material will be paid under the Granular 'A' item)

Item No. 16. – Traffic Control and Signing (No Special Provision)

Reference: OPSS.MUNI 706

Item No. 17. – Pavement Marking, Solid Yellow 10 cm**Item No. 18. – Pavement Marking, 363 Broken Yellow 10 cm****Item No. 19. – Pavement Marking, Solid White 10 cm**

For Items 17, 18, 19

Reference: OPSS 710

- the Contractor must record all pre-existing pavement marking prior to the disturbing of the existing bituminous road surface
- the Contractor must determine the accuracy of the existing line markings and correct the configuration of all road markings to meet the specifications of OPSS 710 and OTM Book 11 based on a 90 km/h design speed.
- the Contractor must commit to and schedule a pre-painting meeting with the county Inspector to ensure accuracy of line marking locations prior to pre-marking or painting
- **the bid price per metre must include two applications, with the second application applied after the first coat is tack free and no longer than 7 days after the first application.**
- short term pavement markings shall be placed at the completion of paving as per the requirements of OPSS 710.

Item No. 20. – Pavement Marking, Symbols - 60 cm Stop Blocks

Reference: OPSS 710

- the length of stop blocks shall be field adjusted to extend from the right-hand curb or pavement edge to the directional dividing line between opposing lanes as per the requirements of OTM Book 11
- payment shall be by the metre based on a 60 cm wide line

Pavement Marking Locations, Symbols - 60 cm Stop Blocks		
Road	Intersecting Road	Approximate Length (m)
Grey Road 9	Southview Lane	6
Grey Road 9	Road 57A	6
Grey Road 9	10 th Line NE	8
Grey Road 9	Melancthon-Osprey TL	8
Grey Road 9	Grey Road 9 (BADJEROS)	30
Grey Road 9	Road 67A	15
Grey Road 9	Grey Road 124	9
Total		82

Item No. 21. – 3 Cable Guide Rail

Reference: OPSS.MUNI 721

- install new guiderail systems as detailed in the contract drawings
- install reflectorized strips on guiderail posts
- install 5"x5" oversized snowplow markers secured to 6 ft long 1"x1" galvanized steel posts direct buried to a minimum embedment depth of 36" at both ends of each guiderail installation
- construct a minimum 0.5 m of rounding behind guiderail posts
- rounding surface must be graded to allow drainage from asphalt to ditches
- rake rounding smooth and compact prior to receiving granular sealing

Item No. 22. – Topsoil, Imported

Reference: OPSS.MUNI 802

Place screened topsoil to a minimum depth of 100 mm prior to the application of Hydroseed, as per OPSS 802, at:

- disturbed areas resulting from construction activities within Badjeros
- areas as directed by County Inspector.

Item No. 23. – Hydroseed

Reference: OPSS.MUNI 804

Apply Standard Roadside Mix to:

- areas of topsoil placement
- any other disturbed areas as directed by County Inspector.

Item No. 24. – Light Duty Silt Fence Barrier

Reference: OPSS.MUNI 805

- supply and install light duty silt fence barrier at locations identified in the contract drawings and as directed by the County and as required during construction
- silt fence barrier must be well maintained throughout the duration of the contract which includes the removal of accumulated sediment

Item No. 25. – Pre-Construction Building Condition / Crack Survey

The scope of work shall include:

- Preparation and implementation of a preconstruction crack survey of the existing buildings and structures in the vicinity of the proposed construction;
- A survey of existing surface finish conditions complete with documentation with photographs and in writing;
- Preparation of pre and post construction reports;

There will be no measurement for payment. Payment shall be made by the following schedule:

- 50% upon submission of pre-construction report (prior to start of construction)
- 50% upon submission of post construction report (prior to end of warranty period).

Payment at the contract lump sum price shall be full compensation for all labour, equipment and material to do the work.

The Contractor must submit a copy of the inspection reports and photographs to the Contract Administrator.

The Contractor shall be solely responsible for repairing damage due to construction operations, and as such, should determine the extent of the survey based on their own assessment of the limits of influence of the selected construction method.

Contingency Items

All labour, material and equipment required to complete the work, including traffic control and the removal and disposal of any materials or items, shall be included in the bid price for each of the following items.

Any removed or surplus material or items shall be disposed of as per the requirements of OPSS 180.

Contingency items shall be included in total bid price for comparative purposes.

The work under contingency items shall only be carried out at the request of the County while the Contractor is on site performing the work under this contract.

Item No. 26. – Earth Excavation, (Contingency)

Reference: OPSS.MUNI 206

- excavate, **if required**, at locations summarized by the County Inspector (and provided to the Contractor during construction)
- suitable and non-excess earth material excavated from roadway cuts, ditching, and other associated sites may be used in earth grading and embankment construction

Item No. 27. – Earth Ditch Cleanout (Contingency)

Reference: OPSS.MUNI 206

- clean existing ditches, **if required**, at locations summarized by the County Inspector (and provided to the Contractor during construction) to provide positive drainage
- equipment shall be a rubber tired hydraulic backhoe, with wrist action toothless bucket.

Item No. 28. – 19mm Clear-Stone Pipe Bedding (Contingency)

Reference: OPSS.MUNI 314

- clearstone shall be supplied and placed for pipe bedding, **if required**, as directed by County Inspector.

Item No. 29. – Granular ‘B’ Type I (Contingency)

Reference: OPSS.MUNI 314

Shall be used for:

- sub-base or subgrade repair, **if required**, in areas where existing material is unsuitable as determined by CA or County Lead Hand Inspector
- fore-slope construction, **if required**, in areas where platform widening may be required

Item No. 30. – 300mm HDPE Entrance Culvert Removal and Replacement (Contingency)

Reference: OPSS.MUNI 510

- remove and replace entrance culverts, **if required**, as per the direction of the County Inspector
- pipe bedding and pipe backfill shall be Granular 'A' paid under the Granular 'A' item.

Item No. 31. – 450mm HDPE Entrance Culvert Removal and Replacement (Contingency)

Reference: OPSS.MUNI 510

- remove and replace entrance culverts, **if required**, as per the direction of the County Inspector
- pipe bedding and pipe backfill shall be Granular 'A' paid under the Granular 'A' item.

Item No. 32. – 525mm HDPE Entrance Culvert Removal and Replacement (Contingency)

Reference: OPSS.MUNI 510

- remove and replace entrance culverts, **if required**, as per the direction of the County Inspector
- pipe bedding and pipe backfill shall be Granular 'A' paid under the Granular 'A' item.

Item No. 33. – R-10 Rip-Rap - Culvert Ends and Slope Protection (Contingency)

Reference: OPSS.MUNI 511

- place Rip-Rap, **if required**, as directed by the County Inspector
- rip-rap shall meet the requirements of OPSS 1004

Section 3 - General Specifications and Scope of Work (Schedule B & C)

DESCRIPTION OF WORK

The work under schedule 'B' and 'C' includes the road resurfacing and culvert replacement on two Dufferin County Roads. Dufferin County Road 9 (4.5km), from Dufferin Road 2 to Melancthon/ Osprey Townline in the Township of Melancthon and Dufferin County Road 2 (3.0km), from Dufferin Road 9 the unopened Melancthon-Osprey Townline road allowance.

The Schedule 'B' work on Dufferin County Road 9 includes selective replacement of various road cross culverts and driveway culverts, localized ditching and topsoil restoration, full depth pulverization, grader shaping and compaction of the existing road platform, placement of 60 millimetres thick HL8 base coarse asphalt, and 50 millimetres thick HL3 surface coarse asphalt (9.5 metre platform width), and the placement of granular 'A' shoulder gravel (1.0m width).

The Schedule 'C' work on Dufferin County Road 2 includes selective replacement of various road cross culverts and driveway culverts, localized ditching and topsoil restoration, full depth pulverization, grader shaping and compaction of the existing road platform, placement of 60 millimetres thick HL8 base coarse asphalt, and 50 millimetres thick HL3 surface coarse asphalt (7.5 metre platform width), and the placement of granular 'A' shoulder gravel (2.0m width).

The following specifications combined with the related contract drawings provide a complete summary of the work to be completed under this schedule.

GENERAL

- .1 The Contractor shall provide all labor, equipment and material required to mobilize the equipment and materials to the site, and to demobilize the equipment and surplus materials from the site at no additional cost to the County of Dufferin.
- .2 Primary access to the project site shall be gained via Grey County or Dufferin County Roads or King's Highways. There is to be no construction traffic on adjacent residential or Township roads.
- .3 The Contractor shall maintain and/or repair all siltation and erosion control measures (installed as part of this Contract), during site construction activities and prior to demobilization.
- .4 The Contractor shall remove and dispose of all siltation and erosion control measures following adequate vegetation and stabilization of the project site at no additional cost to the County of Dufferin. All protective measures shall remain in place until approved for removal by the County of Dufferin or applicable Conservation Authority.

- .5 The Contractor is responsible for the preservation, required adjustments, temporary removal and reinstatement of all road signs and mailboxes (such that Canada Post standards are satisfied) within the Contract limits as required to facilitate construction. The Contractor shall complete a detailed inventory of all road signage and other roadside features before mobilizing any equipment to the project site. A copy of this inventory is to be provided to Dufferin County as part of the preconstruction meeting and prior to construction. All associated works required to complete such activities shall be provided at no additional cost to the County of Dufferin.
- .6 The Contractor shall be responsible for coordinating the collection of all garbage, blue box, green bin and other components of waste collection within the limits of the Contract for the full duration of the project. This co-ordination shall include consultation with the County of Dufferin's Waste Collections Contractor, Green for Life (GFL). GFL can be contacted at 1-888-941-3345. The Contractor shall confirm with the County of Dufferin, two (2) weeks prior to commencing construction that this co-ordination has taken place and shall disclose the agreed upon method to ensure continued waste collection within the construction site.
- .7 When necessary the Contractor shall develop and implement an appropriate detour route, to be approved by the County of Dufferin. This includes the supply, erection, maintenance, and ultimate removal of all control signs and/or traffic signals for detours, road closures, etc.
- .8 The Contractor is responsible for notifying local municipalities with the intended haul routes for all materials entering and leaving the job site. A written copy of the intended haul routes shall be given to the affected Municipalities and Counties, as well as a copy provided to the County of Dufferin for approval. Haul routes are to avoid residential and township roads whenever possible.
- .9 The Contractor is responsible for obtaining Utility locates, from all utility companies in the area. A copy of the locates is to be maintained onsite at all times during construction. The Contractor shall be responsible for locating and protecting all utilities in the field. The Contractor shall bear all costs from any damages to utilities caused by their forces. Where relocations are required, the Contractor shall maintain and protect utilities in their existing location until they are relocated by the Utility Company and shall re-schedule their work to accommodate such relocations.
- .10 All references in the Contract to the Manual of Uniform Traffic Control Devices (MUTCD), including all Parts and Divisions thereof, or MTO Traffic Control Manual for Roadway Work Operations, or Traffic Control Manual for Roadway Operations Field Editions are hereby deleted and replaced by the following books of the Ontario Traffic Manual (OTM):

Book 5 – Regulatory Signs;

Book 6 – Warning Signs;

Book 7 – Temporary Conditions (and Temporary Conditions Field Edition);

Book 11 – Pavement, Hazard and Delineation Markings;

Book 12 – Traffic Signals.

Any reference in the Contract to OTM shall be deemed to be the Ontario Traffic Manual (Books 5, 6, 7, 11 and 12).

The Contractor shall comply with the applicable requirements of the above Ontario Traffic Control Manual book(s).

- .11 The Contractor is responsible for arranging equipment storage areas for each site. The Contractor may store equipment inside the project right-of-way limits but may not impede any travelled lanes or roadside shoulders. Equipment shall be located as to not interfere with sightlines to intersections or driveways. The Contractor is also responsible for the reinstatement of all areas disturbed by staging operations to a condition equal to or better than the original condition at no additional cost to the County.

If the Contractor wishes to use private property as an equipment staging area, the Contractor shall provide the County with a written agreement, signed by the Contractor and the private owner, indicating that the Contractor has permission to use the land for equipment staging purposes and that the Contractor has agreed to re-instate the staging area to a condition better than the original condition and to the satisfaction of the Property Owner.

Any such agreement between the Contractor and the adjacent Property Owner shall be considered outside of this Contract. The County of Dufferin shall not be held responsible for any damages to private property caused by the Contractor on any adjacent private property used for equipment staging purposes.

- .12 Section GC 8.01.02 of the Ontario Provincial Standards for Roads and Public Works, General Conditions of Contracts, variations in tender quantities only applies to major Contract items as defined in the OPS General Conditions of Contract. For the purpose of this Contract all contingency Contract Items, as listed within "Part 5.0 Contingency" will not be considered as a major item and therefore are not eligible for underrun or overrun adjustments to either the County of Dufferin or Contractor. Payment for works completed under contingency tender items will be paid at the specified unit rate of the tender item.

PROJECT SCHEDULE

- .1 In preparing the tender bid for this project and for scheduling the work for this Contract, the bidder is advised of the following:
- The County of Dufferin requires that all construction under this Contract be completed no later than **September 4, 2020.**
 - The County reserves the right to reduce the scope of work and/or stage the project as deemed necessary by the County of Dufferin.

.2 The anticipated schedule for tendering, award and completion of the Contract is as follows:

a)	Tender Call	March 6, 2020
b)	Tender Close	April 9, 2020
c)	Tentative Award Date	May 14, 2020
d)	Preconstruction Meeting	May 28, 2020 (Tentative)
e)	Start Date	June 15, 2020
f)	Completion Date	September 4, 2020 (No later than)

The County of Dufferin reserves the right to alter the schedule listed above.

.3 The start date for on-site construction is subject to the receipt of all permits, approvals, and authorization from the appropriate regulatory authorities. No additional payment or claims will be considered for any delays in construction caused by permits, approvals, and authorization from regulatory authorities.

.4 Work is permitted only from Monday to Friday 7:00 am to 7:00 pm inclusive, or as described within the local municipal by-law. Any weekend work must be approved by the County of Dufferin and notification of such requests must be provided a minimum of 48 hours prior to the weekend in which the work is proposed.

.5 Work must be performed on a continuous basis from the start of the project to final completion. The Contractor agrees to submit a detailed project schedule to the County of Dufferin clearly illustrating each significant project milestone and the chronological order of carrying out the work. The County of Dufferin reserves the right to adjust the schedule as required.

PRE-CONSTRUCTION AND CONSTRUCTION PROGRESS MEETINGS

.1 A Pre-Construction Meeting will be held following award of the Contract by the County of Dufferin and immediately prior to commencement of construction on the project. The Contractor, the geotechnical sub-consultant, and other interested parties will be invited to the Pre-Construction Meeting. The Pre-Construction Meeting will include identification of all pertinent personnel to be involved on the project, sub-Contractors, suppliers, project details, and the Contractor's proposed schedule. The issues to be discussed at this meeting will not be limited to the above items and may be outlined in a prior agenda by the County of Dufferin.

.2 Construction Progress Meetings will be held as bi-weekly by the County of Dufferin. These meetings, during the construction period, will be to review the Contractor's progress, the sequence of operations, issues and constraints that may arise during construction, details of the construction progress, changes to the Contract, and to provide general coordination for the overall successful completion of the project. The Contractor's representative will be required to attend these meetings as they are convened, and the location for the Construction Progress Meetings will be determined by the County on a per-meeting basis.

.3 In conjunction with all terms and conditions of the Contract, the Contractor shall prepare a project work schedule for presentation at the Pre-Construction

Meeting. The project work schedule shall be in sufficient detail to provide information on calendar dates, sequencing and scheduling of all major items of work (e.g. Culvert replacement, slope rehabilitation, asphalt paving, ditching, shouldering, etc.), and the integration of other requirements/sub-Contractor work programs.

- .4 The Contractor's schedule shall be updated as required and submitted to the County of Dufferin prior to the regularly scheduled Construction Progress Meeting. The agenda for each Construction Progress Meeting shall include a review of the Contractor's work schedule, relative to the completion date and in relation to working day balances.
- .5 There will be no separate payment for work required by the Contractor in the preparation and updating of the Contractor's work schedule. Further, there will be no separate payment for the Contractor's representatives to attend the regularly scheduled project meetings, all such costs being included in the Schedule of Unit Prices for this project.

INCIDENTAL ITEMS

The following is a partial list of items, the cost of which are to be included in the unit prices of the Tender Items. No additional payment will be made for the following:

1. Cost of permits and fees
2. Cost of providing and maintaining a field office and site privy or water closet and private phone line or mobile phone for the use of the Contractor, unless a specific item for payment exists in the Schedule of Unit Prices
3. Cost of maintaining uninterrupted access to all private properties and businesses that may be impacted by the construction
4. Cost of coordination of any work that may be associated with utility companies who may be affected by the project, or may be required to perform work simultaneously with the work of this Contract
5. Cost of normal roadway maintenance on existing roads and streets which may be affected by the Contractor's operations for the duration of the Contract
6. Cost of locating, supporting and protecting existing utilities and services
7. Cost of preparing, maintaining, updating and providing a detailed project work schedule to the County of Dufferin
8. Cost of organization, maintenance and administration of a Project Safety Committee
9. Cost of preparing and submitting any shop drawings, as may be required under this Contract
10. Cost of construction barricades, construction signals, construction markers and construction signage
11. Cost of preparing and submitting the traffic control plan
12. Cost of developing and implementing (including signage and notifications) a County approved detour route

13. Cost of restoring or repairing any private property damaged as part of the Contract operations. Such restorations are to be completed to the satisfaction of the Corporation of The County of Dufferin.

Section 4 - Special Provisions (Schedule B&C)

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TENDER ITEMS B1 AND C1 – TRAFFIC CONTROL

- .1 The work of this item shall include, without limitation, the development of and continued implementation of appropriate Traffic Controls and Signage, including:
 - a. As the roadway will remain open to traffic during construction, the Contractor shall provide adequate signs, barricades and barriers to safely protect the work area from vehicle and pedestrian traffic. On occasion, the Contractor may be required to provide a Pilot Truck to guide vehicle traffic through the site. The requirement for a Pilot Truck will be at the discretion of the Contractor and as recommended by the County of Dufferin.
 - b. In the event that a temporary road closure is required the Contractor shall develop detour route (s), as appropriate and shall submit a detour plan for approval by the County of Dufferin and affected member Municipalities. The detour route shall be properly signed and primarily make use of County Roads where practical. Any temporary road closure, regardless of the duration must be approved by both the County of Dufferin. The Contractor shall provide notice to the County of Dufferin a minimum of 5 business days prior to any road closure.
 - c. Signage shall be in accordance with OPSS.MUNI 706, including the following:
 - i. OPSS.MUNI 706.01 (Scope) shall be amended to include; Work performed under this item will include the supply, placement, maintenance, replacement as necessary and removal, of all advisory signs, construction signs, warning signs, TC 54 delineators and temporary concrete barriers, if necessary, to advise the public and to control traffic to ensure the work area is protected during construction.
 - d. All businesses and residents with access onto the project site, shall be continuously provided such access. The Contractor shall maintain at least one lane open onto intersecting roadways, driveways and other accesses at all times during construction.
- .2 The Contractor shall:
 - a. Provide the County of Dufferin with a detailed Construction Sign Plan three (3) weeks prior to mobilizing to the site. This plan shall include all necessary advisory signs, as well as all work zone warning signs including type, location and size, as well as all required signs and barricades to limit/prevent vehicle and pedestrian traffic during construction.
 - b. Where required the Contractor shall protect the work area through the use of barricades. Barricades shall be preceded by warning signs and will be sufficient to prevent an errant vehicle from accessing any work area or open excavation. Barricades shall not be placed in a manner that will restrict access to local entrances.
 - c. Provide the County of Dufferin with a detailed description of the proposed traffic control procedures and equipment which they intend on using during the project.

- d. Maintain an updated Traffic Protection Plan on site for the duration of the Contract work.
 - e. Schedule work such that there will be no open excavation left unprotected adjacent to an active lane carrying traffic overnight or during non-working days. Excavations shall be backfilled with the specified granular material to an elevation equal to the centreline road profile grade. This material shall be placed and compacted at the end of each day prior to closing down construction operations.
 - f. Supply appropriate traffic control signage in accordance with the Ontario Traffic Manual – Book 7 – Temporary Conditions.
 - g. Maintain all traffic control signage in good order throughout the duration of the Contract and repair or replace any signage as necessary.
 - i. Supply, install, erect, maintain, repair and replace all signs, flashing lights, beacons, etc. as required to ensure the public is properly warned upon approaching the Contract site. This shall be in accordance with OTM Book 6 Warning Signs and OTM Book 7 Temporary Conditions – Field Edition.
 - ii. Using construction fence and appropriate signage, completely enclose all open excavations during non-working hours.
 - iii. Supply, install, erect and maintain all suitable barricades, signs, snow fence, etc. along the travelled lanes (pedestrian or vehicle), if construction is taking place adjacent to any travelled lane.
 - iv. Provide any traffic control, or traffic control measures, as necessary during the course of the work. These measures may include paid duty police traffic control, temporary traffic signals, etc.
- .3 The Contractor may be required to provide temporary traffic control using flag-persons during construction. All traffic control for/during this Contract shall be in conformance with Ministry of Labour Policies and the Occupational Health and Safety Act.
- .4 There will be no measurement for payment for this item. Payment of the tendered lump sum price for this item shall be compensation in full for all related costs.

TENDER ITEMS B2 AND C2 – HEAVY DUTY WIRE-BACKED SILT FENCE

- .1 The work of this item shall include, without limitation, the supply, installation, maintenance, and removal of posts, paige wire, and silt fencing, in the locations identified on the Contract Drawings and as directed by the County of Dufferin.
- .2 Work shall be completed in accordance with the manufacturer's specifications, OPSD 219.131, and OPSS.MUNI 805 unless otherwise noted on the Contract Drawings.
- .3 The temporary paige wire farm fencing shall consist of a 1.2 metres high, 9-gauge wire farm fence, attached to "T-bar" posts of 2.0 metre centres and 15 cm diameter wood posts at all changes in horizontal and vertical alignments or

- maximum 20.0 metre centres. Silt fence shall be attached and clear stone placed against the fence with the silt fence toed into the ground.
- .4 The silt fence shall be Envirofence erosion control fence or approved equivalent.
 - .5 The silt fence is to be attached on the side of the farm fence toward the direction of flow.
 - .6 For the purposes of this item, "maintenance" shall be deemed to include periodic removal of silt accumulations, as required, and the re-erection of the fencing to a vertical condition. Accumulated sediment shall be removed once sediment reaches one-half of the control measures or as dictated by the County of Dufferin. Sediment is to be hauled off site to an approved site arranged by the Contractor, at the Contractor's expense.
 - .7 Measurement for payment of this item shall be per linear metre of heavy-duty wire-backed silt fence installed. Fifty percent (50%) of the tendered price shall be compensated upon installation of heavy-duty wire-backed silt fence and fifty percent (50%) of the tendered price shall be compensated upon full removal for all related works.

TENDER ITEMS B3 AND C3 – FIBRE ROLL FLOW CHECK DAMS

- .1 The work of this item shall include, without limitation, the supply, installation, maintenance and removal of fibre roll flow check dams or approved equivalent in the locations indicated on the Contract Drawings or as directed by the County of Dufferin.
- .2 Fibre Rolls shall be Terrafix Coir Log, Salix Aqualog, or approved equivalent.
- .3 Work shall be done in accordance with OPSS.MUNI 805, and OPSD 219.191.
- .4 For the purposes of this item, the term "maintenance" shall include periodic removal of silt accumulation and the reinstatement of the fibre roll flow check dam, when required.
- .5 Measurement for payment of this item shall be per check dam installed. Fifty percent (50%) of the tendered price shall be compensated upon installation of fibre roll flow check dam and fifty percent (50%) of the tendered price shall be compensated upon full removal for all related works.

TENDER ITEMS B4, B5, C4, AND C5 – REMOVALS

- .1 The work for these items shall include the removal and offsite disposal of all items as illustrated with the Contract Drawings and as described within Contract Documents. The work shall include the required excavation and offsite disposal of all associated works.

These items include, but are not limited to the removal of:

- a. Concrete curb
- b. Culverts

- c. Miscellaneous concrete
 - d. Retaining walls
 - e. Asphalt removals (kill strip)
 - f. Guide rails including end treatments
 - g. Existing fence material or other items/materials requiring removal to facilitate construction
- .2 Work shall be done in accordance with OPSS.MUNI 510.
- .3 Where a culvert replacement is proposed the Contractor shall strip and stockpile topsoil for future restoration of side slopes. The cost for stripping and stockpiling of topsoil is to be included within the unit bid price of this tender item.
- .4 Restoration with native backfill including compaction and testing shall be included within the unit bid price of this tender item.
- .5 Restoration that requires the import of additional materials shall be paid under the following Tender Items:
- a. B9 and C10 Supply, Haul, Place, and Compact Granular 'A'.
 - b. B12 and C13 Import Topsoil, Place, Fine Grade and Hydro-seeding
 - c. B24 and C25 Supply, Haul, Place, and Compact Granular 'B'
- .6 The Contractor must receive consent from the County of Dufferin prior to the import and placement of any materials required for restoration.
- .7 Surplus material generated during excavations, or material determined as unsuitable for backfill shall be removed and disposed of offsite. Payment for the removal and disposal of surplus excavated material shall be in accordance with items B11 and C12 Premium for Disposal of Surplus Excavated Material Offsite. All other costs required to remove and dispose of specified tender items shall be included within the bid price for this Tender Item.
- .8 Measurement for payment shall be per unit rate as described in the Tender Items. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B6, B7, C6, AND C7 – SUPPLY AND INSTALL HIGH DENSITY POLYETHYLENE (HDPE) CULVERTS

- .1 The work of this item shall include, without limitation, all labour, equipment and materials required to install the High Density Polyethylene (HDPE) smooth interior wall culverts (Boss 2000 or approved equal) for the types and sizes shown on the Contract Drawings and as outlined within the Contract Documents, including all excavation, Granular 'A' bedding and cover and select subgrade backfill material. All such costs shall be included within the tendered unit rate for this Tender Item.
- .2 Work shall be completed in accordance with the related specifications and details as outlined within OPSS.MUNI 421 unless otherwise specified. Bedding shall consist of Granular 'A' conforming to OPSS.MUNI 1010, compacted to 100%

- SPMDD, extending from at least 300 millimetres below the invert of the pipe to 300 millimetres above the top of the culverts. All costs associated with the supply, placement and compaction of the pipe bedding shall be included within this Tender Item.
- .3 Compaction shall be in accordance with OPSS.MUNI 501. The Contractor shall provide documentation to the County demonstrating that the specified compaction has been achieved. All costs associated with the compaction testing and reporting shall be included and paid under this Tender Item.
 - .4 All suitable material salvaged during the excavation of the existing culverts shall be utilized onsite for backfill purposes. All backfill shall be the selected subgrade material and shall be compacted to at least 95% SPMDD. All material placed shall be certified appropriate for structural use by a County of Dufferin approved geotechnical consultant prior to placement. Reused granular shall be free draining and free from topsoil, clay and other deleterious material. When the total quantity of suitable backfill material available is less than what is required to complete the work the Contractor shall import Granular 'B'. Payment for Granular 'B' imported shall be in accordance with items B24 and C25 Supply, Haul, Place and Compact Granular 'B'. The Contractor to ensure minimum of 150mm Granular 'A' subbase is established over the culvert excavation in preparation for base coarse asphalt paving. Any additional material imported shall be in accordance with items B9 and C10 Supply, Haul, Place and Compact Granular 'A'.
 - .5 Surplus material generated by the culvert excavation, or material determined as unsuitable for backfill shall be removed and disposed of offsite. Payment for the removal and disposal of surplus excavated material shall be in accordance with items B11 and C12 Premium for Disposal of Surplus Excavated Material Offsite.
 - .6 Frost tapers shall be constructed in accordance with OPSD 803.030 and OPSD 803.031.
 - .7 Where a culvert replacement is proposed within a residential or commercial entrance onto the County Road, the entrance shall be restored to original or better conditions. The Contractor is responsible to schedule a suitable time with the property owner prior to removing an entrance culvert.
 - .8 Dewatering shall be in accordance with and paid for under items B26 and C27 Dewatering. No additional payment will be made for dewatering efforts required to remove or install culvert pipes.
 - .9 Pipe selection, structural design and depth limitations shall be in accordance with OPSD 806.020. All driveway culverts to be 210kPa pipe stiffness. All road cross culverts to be CSA 182.6 with 320kPa pipe stiffness.
 - .10 Measurement for payment shall be per linear metre of culvert installed to a maximum of the tendered amount. Payment at the tendered unit price shall be compensation in full for all related works.

**TENDER ITEM C8 – SUPPLY AND INSTALL STEEL REINFORCED
POLYETHYLENE (SRPE) CULVERTS**

- .1 The work of this item shall include, without limitation, all labour, equipment and materials required to install the Steel Reinforced Polyethylene (SRPE) smooth interior wall culverts (Boss 3000 or approved equal) for the types and sizes shown on the Contract Drawings and as outlined within the Contract Documents, including all excavation, Granular 'A' bedding and cover and select subgrade backfill material. All such costs shall be included within the tendered unit rate for this Tender Item.
- .2 Work shall be completed in accordance with the related specifications and details as outlined within OPSS.MUNI 421 unless otherwise specified. Bedding shall consist of Granular 'A' conforming to OPSS.MUNI 1010, compacted to 100% SPMDD, extending from at least 300 millimetres below the invert of the pipe to 300 millimetres above the top of the culverts. All costs associated with the supply, placement and compaction of the pipe bedding shall be included within this Tender Item.
- .3 Compaction shall be in accordance with OPSS.MUNI 501. The Contractor shall provide documentation to the County demonstrating that the specified compaction has been achieved. All costs associated with the compaction testing and reporting shall be included and paid under this Tender Item.
- .4 All suitable material salvaged during the excavation of the existing culverts shall be utilized onsite for backfill purposes. All backfill shall be the selected subgrade material and shall be compacted to at least 95% SPMDD. All material placed shall be certified appropriate for structural use by a County of Dufferin approved geotechnical consultant prior to placement. Reused granular shall be free draining and free from topsoil, clay and other deleterious material. When the total quantity of suitable backfill material available is less than what is required to complete the work the Contractor shall import Granular 'B'. Payment for Granular 'B' imported shall be in accordance with item C25 Supply, Haul, Place and Compact Granular 'B'. The Contractor to ensure minimum of 150mm Granular 'A' subbase is established over the culvert excavation in preparation for base coarse asphalt paving. Any additional material imported shall be in accordance with item C10 Supply, Haul, Place and Compact Granular 'A'.
- .5 Surplus material generated by the culvert excavation, or material determined as unsuitable for backfill shall be removed and disposed of offsite. Payment for the removal and disposal of surplus excavated material shall be in accordance with item C12 Premium for Disposal of Surplus Excavated Material Offsite.
- .6 Frost tapers shall be constructed in accordance with OPSD 803.030 and OPSD 803.031.
- .7 Where a culvert replacement is proposed within a residential or commercial entrance onto the County Road, the entrance shall be restored to original or better conditions. The Contractor is responsible to schedule a suitable time with the property owner prior to removing an entrance culvert.

- .8 Dewatering shall be in accordance with and paid for under item C27 Dewatering. No additional payment will be made for dewatering efforts required to remove or install culvert pipes.
- .9 Pipe selection, structural design and depth limitations shall be in accordance with OPSD 806.020. All culverts to be CSA B182.15 with 320kPa pipe stiffness.
- .10 Measurement for payment shall be per linear metre of culvert installed to a maximum of the tendered amount. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B8 AND C9 - 300 MILLIMETRE DIAMETRE RIP RAP C/W FILTER CLOTH

- .1 The work of this item shall include, without limitation, excavation for, and the supply and placement of the 300 millimetre diametre rip rap lined spillway(s) complete with filter cloth (Mirafi 180N or approved equal) to the nominal depth of 0.5 metres and to the lines and elevations shown on the Contract Drawings and locations as described within the Contract Documents. The work shall be completed as shown within OPSD 810.010.
- .2 The work of this item shall conform to OPSS.MUNI 511.
- .3 a) Rip Rap Specifications
Class I
Nominal 300 millimetre or 36 kg weight
Allowable local velocity up to 3.05 metres/second
Grading Specification:

	100%	smaller than 450 millimetre or 136 kg
at least	20%	larger than 350 millimetre or 68 kg
at least	50%	larger than 300 millimetre or 36 kg
at least	80%	larger than 200 millimetre or 11 kg
- .4 Measurement for payment shall be per square metre of rip rap placed. Payment at the tendered unit prices shall be compensation in full for all related works, including the supply and placement of geotextile.

TENDER ITEMS B9 AND C10 – SUPPLY, HAUL, PLACE AND COMPACT GRANULAR 'A'

- .1 The work of this item shall include, without limitation, the supply F.O.B. to site, placement and compaction to 100% SPMDD of Granular 'A' as per OPSS.MUNI 1010 on all prepared Granular 'B' road base. In general, such Granular 'A' shall be placed to a compacted thickness as noted on the Contract Drawings or as directed by the County of Dufferin.
- .2 The granular material stockpile is to be inspected by a County of Dufferin representative and granted approval prior to the start of construction. If the Contractor intends to switch stockpiles or suppliers, the County of Dufferin shall be notified and no material can be brought on site until the material is inspected by a County of Dufferin representative and approval is given.

- .3 Placement, compaction, and weighing of materials for this item shall be in accordance with OPSS.MUNI 314, OPSS.MUNI 501 and OPSS.MUNI 102, respectively. Section OPSS.MUNI 501.08.03 Compaction Testing Method 'B' is deleted. No additional payment will be made for water used for compaction. All costs for water shall be included within this item.
- .4 Measurement for payment for this item shall be per tonne of Granular 'A' placed and compacted on the site, as evidenced by weigh scale slips from an approved scale and signed onsite by a County of Dufferin representative upon delivery. Payment at the tendered unit price shall be compensation in full for all related works

TENDER ITEMS B10 AND C11 - DITCHING

- .1 The work of this item shall include, without limitation, the forming of all ditches as shown on the Contract Drawings, to maintain positive drainage and as directed by the County of Dufferin.
- .2 Work for this item shall be in accordance with OPSS.MUNI 206.
- .3 All ditches excavated shall be graded to an elevation of 100 millimetres below proposed finished elevations to account for topsoil placement and compacted to 95% SPMDD.
- .4 The Contractor shall fine grade the formed ditches in a tidy fashion, to the satisfaction of the County of Dufferin. All ditch work and fine grading/levelling shall be performed such that positive drainage is achieved.
- .5 All excess material produced during the ditching activities shall be removed and disposed of offsite. Payment for the removal and offsite disposal of the material will be paid under items B11 and C12 Premium for Disposal of Surplus Excavated Material Offsite.
- .6 Measurement for payment of this item shall be per linear metre of ditch formed. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B11 AND C12 - PREMIUM FOR DISPOSAL OF SURPLUS EXCAVATED MATERIAL OFFSITE

- .1 The work of this item shall include, without limitation, the loading, hauling and disposal offsite of all such material at a location to be determined and paid for by the Contractor. This item will be used only when the Contractor and County of Dufferin is satisfied that materials are indeed surplus to the requirements of the Contract.
- .2 Work for this item shall be in accordance with OPSS.MUNI 206, and OPSS.MUNI 180.
- .3 If the amount of material available from excavation for the various pipe work items, frost tapers, open channel, ditching and structures exceeds the amount of material required as fill onsite, it will be necessary to dispose of the excess excavated material offsite.

- .4 Prior to removing or placing any materials excavated from the project site the Contractor shall obtain and provide:
 - Copies of all Municipal permits and approvals obtained by the property owner of the disposal site
 - Written confirmation from the owner of the disposal site(s) accepting the material. This should include the total quantity and types of materials accepted under the agreement
- .5 Should the Contractor decide to dispose of materials offsite before the final grading of the fill area has been accomplished, and the result is a shortage of material available for fill, the Contractor shall import suitable material for such use at his own expense.
- .6 Measurement for payment shall be per cubic metre of material removed and disposed of offsite. Payment of the tendered unit price shall be compensation in full for all related work.

TENDER ITEMS B12 AND C13 IMPORT TOPSOIL, PLACE, FINE GRADE AND HYDRO-SEED

- .1 The work of this item shall include, without limitation, the supply, hauling, and placement, fine grading and hydro-seeding in areas as noted on the Contract drawings and as directed by the County of Dufferin.
- .2 Payment under this item considers only the topsoil specified to be placed where grading is proposed as indicated on the Contract drawings or as directed by the County of Dufferin. All areas disturbed outside of the original project scope of work shall be restored by the Contractor at no additional cost to the County of Dufferin. Such areas include but not limited to equipment storage sites, material stockpile locations, or areas disturbed by construction methodologies adopted by the Contractor to complete the work.
- .3 OPSS.MUNI 802 and OPSS.MUNI 804 shall apply to this item, except as amended herein; Under this item, the Contractor shall place the seed and topsoil in accordance with the Contract Drawings and as specified herein:
 - a) Load, transport and place stockpiled topsoil in seeding bed areas as noted on the Contract Drawings and as directed by the County of Dufferin.
 - b) Topsoil shall be placed in a uniform layer of 100 mm for seed and compacted to 85% SPMDD.
 - c) Fine trimming and grading (including gilling and rock picking) shall be performed to provide a smooth surface, firm against footprints with fine loose texture, before seed is placed.
 - d) The seed mixture shall be Standard Roadside Mix unless otherwise noted in the Contract drawings.
 - e) Cover application shall be hydraulic mulch.

- .4 The work of this item shall include the maintenance, including watering and cutting, of the area until the grass has grown sufficiently to pass the acceptance criteria outlined in OPSS.MUNI 804.08.
- .5 The Contractor shall ensure that after a period of ninety (90) days, the specified permanent seed species shall be at an average height of 50 mm in an evenly dispersed, uniform cover. If the completed work does not meet the performance measures of the ninety (90) day inspection, the Contractor, shall re-apply the material on any deficient areas.
- .6 The fine graded topsoil surface shall be free of stones greater than 25mm, foreign matter and weeds or other unwanted vegetation. The topsoil shall be scarified if the seed and mulch installation has not occurred within 21 days, following the fine grading of the topsoil. Areas which experience erosion prior to full vegetation shall be repaired and re-seeded as required at no additional cost to the County of Dufferin.
- .7 No seed or cover shall come in contact with the foliage of any trees, shrubs, other vegetation, water bodies, signs, mailboxes or any other existing structures. Seed and cover application or re-application shall not be carried out under adverse weather conditions or when field conditions are not conducive to seed.
- .8 Measurement for payment for this item shall be per square metre topsoiled, seeded and mulched. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B13 AND C14 – PULVERIZE, FINE GRADE, AND COMPACT EXISTING ASPHALT AND GRANULAR SUBBASE

- .1 The work for this item shall include without limitation all equipment, labour and materials required to pulverize the existing asphalt pavement and underlying granular subbase to a total depth of 300 millimetres within the limits of the Contract or as directed by the County of Dufferin. The pulverized asphalt material shall be blended evenly with the underlying granular subgrade to produce a uniformly mixed granular base.
- .2 The combined mineral constituents of the pulverized material shall produce a mixture conforming to the gradation requirements of Granular 'A'. If not, virgin aggregates shall be incorporated into the mix to achieve a Granular 'A' gradation. The minimum size of the pulverized asphalt pavement shall be 100% passing the 37.5 millimetre sieve and further that 95-100% of the material passes the 26.5 millimetre sieve after processing. Payment for the import of corrective granular material shall be made under items B9 and C10 Supply, Haul, Place and Compact Granular 'A'.
- .3 Additional granular material may be required to correct significant crossfall and vertical road profile deficiencies. The Contractor shall consult the County of Dufferin before importing any additional material. Payment for the import and placement of additional granular material shall be made under items B9 and C10 Supply, Haul, Place and Compact Granular 'A'.

- .4 The surface of the pulverized material is to be grader shaped to provide the specified crossfall as identified within the Contract Documents and compacted to a minimum 98 percent of the target density, as determined in OPSS.MUNI 501 for granular materials. Pulverized materials shall be fine graded within the existing road platform from edge of shoulder to edge of shoulder. Any spillover onto the adjacent side slopes shall be cleaned up by the Contractor at no additional cost to the County of Dufferin.
- .5 Following completion of the fine grading, and prior to placement of base coarse asphalt, the Contractor shall provide an appropriate amount of time for the County of Dufferin to review the crossfall and vertical geometry of prepared roadway subbase. No asphalt shall be placed until such time that the County of Dufferin is satisfied with the fine grading work and approval has been given.
- .6 Measurement for payment shall be per square metre of pavement pulverized. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B14, B15, C15, AND C16 - MILL, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT

- .1 The work of this item shall include, without limitation, milling of the existing asphalt pavement to depths as detailed on the Contract Drawings or as described within the Contract Documents.
- .2 Work for this item shall be in accordance with OPSS.MUNI 510 and OPSS.MUNI 180.
- .3 Payment for these items shall also include the offsite disposal of milled material, the cleaning and power sweeping of the milled area, and the supply and placement of temporary hot mix asphalt ramps where required.
- .4 All transverse milled joints shall receive temporary hot mix asphalt ramps prior to opening the lanes to traffic. Temporary hot mix asphalt ramps shall be placed at a maximum slope of 30H:1V in accordance with OPSS.MUNI 310. Payment for the import and placement of temporary hot mix asphalt ramps shall be made under items B20 and C21 Placement of Hot Mix Asphalt.
- .5 Measurement for payment shall be per square metre of pavement milled. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B16 AND C17 – FINE GRADING IN PREPARATION FOR PAVING

- .1 The work for this item shall include without limitation all equipment, labour and materials required to fine grade and compact granular subbase to proposed elevations as identified within the Contract Documents and as shown on the Contract Drawings. This item shall be used for the fine grading and compaction of granular materials in locations outside of the scope of work as identified within Tender Items B13 and C14 – Pulverize, Fine Grade, and Compact Existing Asphalt and Granular Subbase.

- .2 The surface of the granular material is to be grader shaped (to tolerances of +/- 20 millimetres) and compacted to 100% SPMDD of Granular 'A' as per OPSS.MUNI 1010, and OPSS.MUNI 501. All granular materials shall be maintained within the proposed paving area. Any spillover onto the adjacent side slopes shall be cleaned up by the Contractor. All related restorations shall be made at no additional cost to the County of Dufferin.
- .3 Compaction for this item shall be in accordance with OPSS.MUNI 501. Section OPSS.MUNI 501.08.03 Compaction Testing Method 'B' is deleted. No additional payment will be made for water used for compaction. All costs for water shall be included within this item.
- .4 Following completion of the fine grading, and prior to placement of base coarse asphalt, the Contractor shall provide an appropriate amount of time for the County of Dufferin to review the prepared subbase. No asphalt shall be placed until such time that the County of Dufferin is satisfied with the fine grading work and approval has been given.
- .5 Measurement for payment shall be per square metre of fine grading completed in preparation for paving. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B17 AND C18 - STREET SWEEPING / CLEAN EXISTING ROADWAYS

- .1 The work of this item shall include, without limitation, all equipment, materials and labour required for periodic cleaning of the asphalt surface caused by construction activities, cleaning of the base asphalt surface in preparation for surface asphalt, and street sweeping/cleaning as directed by the County of Dufferin. Such cleaning shall generally consist of power sweeping and washing.
- .2 All material removed from the roads shall be disposed of offsite.
- .3 There will be no measurement for payment for this item. Payment of the lump sum price tendered shall be compensation in full for all related works.

TENDER ITEMS B18 AND C19 - WATER FOR DUST CONTROL

- .1 The work of this item shall include, without limitation, the supply F.O.B. site of water from sources other than municipal water supplies, and the controlled application of water for dust control purposes.
- .2 Work shall be done in accordance with OPSS.MUNI 506.
- .3 The Contractor shall take all necessary measures required to prevent dust nuisance resulting from their operations, and public traffic on the roadway.
- .4 If such control measures are not carried out within 3 hours from the initial notice by the County of Dufferin, either written or verbal, the County of Dufferin will employ measures to control the dust. The cost of such a correction will be at the cost of the Contractor and shall be deducted from the Contractor's payment certificates.

- .5 There will be no measurement for payment for this item. Payment of the lump sum price tendered shall be compensation in full for all related works.

TENDER ITEMS B19, B20, C20, AND C21 – PLACEMENT OF HOT MIX ASPHALT (HMA)

- .1 Work shall be done in accordance with OPSS.MUNI 310, OPSS.PROV 313, and OPSS.MUNI 1150. Weighing of material shall be in accordance with OPSS.MUNI 102.
- .2 When applicable the work of this item shall include, without limitation, and at no additional cost to the County of Dufferin:
- a. Any required repairs to the pulverized granular subbase surface, grading of any Granular 'A' road base prior to placement of base course asphalt.
 - b. Cleaning of the base course asphalt prior to the placement and compaction of HL3 surface course asphalt.
 - c. The application of tack coat in accordance with OPSS.PROV 308. along the entire surface of each lift of base course asphalt, recycled asphalt surface, and along all hard surfaces including concrete curbs.
 - d. Removal of all ramps installed with the binder course asphalt, including those where the binder asphalt mated into an existing surface course, and those around structures.
- .3 Performance Graded Asphalt Cement (PGAC) shall be in accordance to OPSS.MUNI 1101, excluding PGAC zone requirements and as follows:
- a. HL3 Surface course asphalt PG 58-28
 - b. HL8 Base course asphalt PG 58-28
- .4 The cost of supplying performance graded asphalt cement shall be included in the bid price of this Tender Item and shall be fixed for the period of this Contract with the following exception:
- a. Between the time the tender has closed and the Contract has been completed, the tender prices bid shall be increased or decreased by the exact amount of any tax or duty changes levied by the Federal or any Provincial government or the imposition of any new tax or duties.
 - b. The County of Dufferin will adjust the payment for hot mix asphalt to the Contractor based on changes to the Ministry of Transportation's (MTO) Performance Graded Asphalt Price (PGAC) price index. All such payment adjustments shall be in accordance with the terms and conditions of items B28 and C29 – Performance Graded Asphalt Cement Price Index Adjustment.
 - c. The Contractor shall notify the County of Dufferin in writing immediately of any such price change so that the bid prices can be amended and invoices processed without undue delay.
- .5 If any of the existing asphalt edges to which new asphalt is to mate have been damaged, such asphalt edges shall be saw cut and the damaged portions of asphalt shall be removed under this item.

- .6 Base coarse asphalt shall be placed in no lift greater than 70 millimetre thickness as per industry standard. Any lift greater than 70mm will require placement of multiple lifts. The cost of placing multiple lifts shall be included in the unit price of this tender item.
- .7 The granular material stockpile is to be inspected by a County of Dufferin representative and granted approval prior to the start of construction. The material shall be tested by the Contractor according to MTO Standards and Specifications for use in hot mix.
- .8 The Contractor shall provide mix designs for all mixes at least one (1) weeks prior to placement, and all mix designs shall be approved by the County of Dufferin prior to the placement of materials. To ensure adherence to the mix design, samples of the mix will be taken at least daily by the County of Dufferin for analysis by an M.T.O. approved laboratory. The approved mix design shall contain no more than 10% reclaimed asphalt material (RAP).
- .9 A Material Transfer Vehicle – (MTV) shall be used for the placement of surface and base course asphalt under this Contract. Uniform and continuous delivery and consistent placement of asphalt shall apply at all times with the use of the MTV. The Contractor shall ensure that the paving crew can match paver speed to asphalt plant output and delivery. The cost of the MTV shall be included in the bid price of this tender item.
- .10 Paving shall not be carried out when ambient temperature does not corresponds with OPSS.MUNI.310.07.06.02, when the road is wet, or rain is imminent.
- .11 The surface of a pavement upon which hot mix asphalt is to be placed shall be dry at the time of HMA placement
- .12 The Contractor shall avoid exposed longitudinal joints at the completion of the working day. Where unforeseen circumstances arise and paving cannot be completed to match the full pavement width as specified in the Contract Documents, the Hot Mix Asphalt course shall be temporarily ramped down to existing at a slope of 10H:1V. The temporary longitudinal ramp shall be removed prior to paving the adjacent lane with a clean vertical face. All costs for temporary longitudinal ramp down including removals shall be included in the bid price of this tender item.
- .13 All centerline longitudinal cold joints shall be reheated prior to placing asphalt. Contractor shall use an infrared heating system to produce a warm joint, without scorching or burning the mix. All re-heating methods shall be approved by the County of Dufferin prior to the placement of any asphalt pavement. All labour, material, and equipment costs associated to the infrared joint heater to be included at no additional cost to the County of Dufferin.

- .14 Asphalt compaction shall be in accordance with OPSS.MUNI 310, Table 10 (minimum pavement compaction based on Maximum Relative Density (MRD) of 92%), as determined by nuclear density gauge. The Contractor shall provide documentation to the County demonstrating that the specified compaction has been achieved. All costs associated with the compaction testing and reporting shall be included and paid under this Tender Item. Additional Density Testing will be performed periodically throughout the Contract by a representative appointed and paid for by the County of Dufferin.
- .15 Longitudinal and Transverse joints shall be constructed as per OPSS.MUNI 310, any interface between old and new pavement will require the grinding of the joint as per 310.07.11. Payment for grinding of the joint shall be made under items B14 and C15 Mill, Remove, and Dispose of Existing Asphalt Pavement. The exact location of where the grinding shall be done will be determined on site by a representative of the County of Dufferin.
- .16 The Contractor will be responsible for ensuring that the asphalt pavement is not damaged by traffic. Traffic, including construction equipment, shall be kept off the freshly placed asphalt for a minimum of 1 hour or the appropriate time to prevent damage to the surface. The Contractor shall replace the damaged asphalt to the satisfaction of and at no additional cost to the County of Dufferin.
- .17 Temporary pavement markings shall be self-adhering yellow reflective tape and shall be placed on the centreline of the newly placed asphalt pavement (base and surface course) after compaction. The markings shall be 100 millimetres x 300 millimetres and placed at a maximum spacing of 5 metres along the length of the road alignment. The cost for the marking tape shall be included in the cost of the tender item.
- .18 All existing asphalt driveways are to be restored with 50 millimetres thick HL3 asphalt to match the road edge at a slope not greater than 6.0%. Limits of such driveway restorations will be determined onsite by a representative of the County of Dufferin
- .19 Measurement for payment for this item shall be per tonne asphalt installed and compacted, as evidenced by weigh scale slips from an approved scale and signed by a County representative onsite. Payment at the tendered unit prices shall be compensation in full for all related works.

TENDER ITEMS B21 AND C22 - SUPPLY, HAUL, PLACE AND COMPACT GRANULAR 'A' SHOULDER GRAVEL

- .1 The work of this item shall include, without limitation, the supply, placement and compaction to 98% SPMDD of Granular 'A' as per OPSS.MUNI 1010 on all prepared roadside shoulders. In general, such Granular 'A' shall be placed, compacted and graded from the edge of the new asphalt platform extending at a consistent 6.0 percent grade to the edge of the shoulder rounding.
- .2 When the specified compaction of the shoulder gravel cannot be achieved water shall be added. All costs associated with the supply and placement of water shall be included in the bid price of this Tender Item.

- .3 Placement, compaction, and weighing of materials for this item shall be in accordance with OPSS.MUNI 314, OPSS.MUNI 501, OPSS.MUNI 1010 and OPSS.MUNI 102, respectively. Section OPSS.MUNI 501.08.03 Compaction Testing Method 'B' is deleted. Water for compaction is included in this Tender Item.
- .4 For the purpose of this Contract OPSS.MUNI 1010 shall be amended to prohibit the use of recycled concrete material, air-cooled blast furnace slag or nickel slag in the production of the granular shoulder material
- .5 The granular material stockpile is to be inspected by a County of Dufferin representative and granted approval prior to the start of construction. The Material will be tested by the County of Dufferin to determine adherence to Modified Granular 'A' specifications. Fractured particles are to be a minimum of sixty (60) percent crushed.
- .6 A shoulder-spreading machine specifically designed for that purpose is the only type of equipment permitted to perform work under this item. The machine shall be capable of spreading to a width of 3.0 metres.
- .7 When the surface stability of the aggregate cannot be obtained due to lack of fines, additional fines shall be added to the upper portion of the course in an amount sufficient to secure surface stability. In no case, however, shall the quantity of fines added be sufficient to increase the amount passing the 75 µm (No. 200) sieve to more than 15 per cent. Correction of the stability of the surface shall be carried out by the Contractor at no additional cost to the County of Dufferin.
- .8 Upon placement and compaction of shoulder gravel, the shoulders shall be fine graded using a grader supplied and operated by the Contractor.
- .9 The pavement adjacent to the placed shoulder gravel, including at intersections, shall be swept using a motorized sweeping machine or tractor to remove gravel from the roadway surface.
- .10 The Contractor, throughout the duration of the Contract, shall control dust nuisance resulting directly from their operations associated with this Contract. If excessively dusty conditions occur, the Contractor shall cause it to be corrected. Payment for the use of water to control dust shall be made under items B18 and C19 Water for Dust Control. Should the Contractor fail to comply with this provision, within three (3) hours of verbal notice being given to the Contractor by the County of Dufferin, the condition will be corrected by the County of Dufferin. The cost of such a correction will be at the cost of the Contractor.
- .11 All existing gravel driveways are to be restored with Granular 'A' to match the road edge at a slope not greater than 6.0%.
- .12 Measurement for payment for this item shall be per tonne of Granular 'A' placed and compacted, as evidenced by weigh scale slips from an approved weigh scale and signed by a County of Dufferin representative onsite upon delivery. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B22 AND C23 - CALCIUM CHLORIDE

- .1 The work of this item shall include, without limitation, the supply and spreading onsite of calcium chloride, in areas as shown on the Contract Drawings or as directed by the County of Dufferin.
- .2 Work of this item shall be in accordance with OPSS.MUNI 506.
- .3 Measurement for payment shall be per 25kg bag applied, as directed by the Contract Administrator. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B23 AND C24 - SUB-EXCAVATION AND DISPOSAL (OFFSITE)

- .1 The work of this item shall include, without limitation, the excavation and removal of deficient subgrade materials in areas identified in the field by the County of Dufferin.
- .2 Excavated material shall be disposed of either onsite in locations as directed by the County of Dufferin or offsite at locations arranged and paid for by the Contractor. Offsite disposal of excess materials shall be in accordance with OPSS.MUNI 180. No additional payment shall be made for the placement of such material to the satisfaction of the owner of the disposal site.
- .3 Prior to removing or placing any materials excavated from the project site the Contractor shall obtain and provide:
 - Copies of all Municipal permits and approvals obtained by the property owner of the disposal site
 - Written confirmation from the owner of the disposal site(s) accepting the material. This should include the total quantity and types of materials accepted under the agreement
- .4 The areas sub-excavated shall be backfilled with Granular 'B' conforming to OPSS.MUNI 1010, compacted to 100% SPMDD, which shall be supplied, placed, compacted, and paid for in accordance with the terms of items B24 and C25 Supply, Haul, Place and Compact Granular 'B'.
- .5 Measurement for payment for this item shall be per cubic metre of sub-excavation, based on field measurements to be jointly undertaken by the Contractor and by the County of Dufferin. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B24 & C25 - SUPPLY, HAUL, PLACE AND COMPACT GRANULAR 'B'

- .1 The work of this item shall include, without limitation, the supply F.O.B. site, placement and compaction to 100% SPMDD of Granular 'B' Type III conforming to OPSS.MUNI 1010. This item shall apply to all Granular 'B' used for road base, shoulder base and for backfill of sub-excavated areas. In general, such Granular 'B' shall be placed to a compacted thickness as noted on the Contract Drawings or as directed by the County of Dufferin.

- .2 The granular material stockpile is to be inspected by a County of Dufferin representative and granted approval prior to the start of construction. If the Contractor intends to switch stockpiles or suppliers, the County of Dufferin shall be notified and no material can be brought on site until the material is inspected by a County of Dufferin representative and approval is given.
- .3 Placement, compaction, and weighing of materials for this item shall be in accordance with OPSS.MUNI 314, OPSS.MUNI 501 and OPSS.MUNI 102, respectively. Section OPSS.MUNI 501.08.03 Compaction Testing Method 'B' is deleted. No additional payment will be made for water used for compaction. All costs for water shall be included within this item.
- .4 Measurement for payment shall be per tonne of Granular 'B' placed and compacted on the site, as evidenced by weigh scale slips from an approved weigh scale and signed by a County of Dufferin representative onsite upon delivery. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B25 AND C26 – SUPPLY, HAUL, PLACE AND COMPACT RECLAIMED ASPHALT PRODUCTS (R.A.P)

- .1 The work of this item shall include, without limitation, the supply F.O.B. to site, placement and compaction to 100% SPMDD of Reclaimed Asphalt Products (RAP) conforming to physical requirements in OPSS.MUNI 1003. This item shall apply to all RAP used for road base, shoulder base, and entrances. In general, such RAP shall be placed to a compacted thickness as noted on the Contract Drawings or as directed by the County of Dufferin.
- .2 The granular material stockpile is to be inspected by a County of Dufferin representative and granted approval prior to the start of construction. If the Contractor intends to switch stockpiles or suppliers, the County of Dufferin shall be notified and no material can be brought on site until the material is inspected by a County of Dufferin representative and approval is given.
- .3 Placement, compaction, and weighing of materials for this item shall be in accordance with OPSS.MUNI 314, OPSS.MUNI 501 and OPSS.MUNI 102, respectively. Section OPSS.MUNI 501.08.03 Compaction Testing Method 'B' is deleted. No additional payment will be made for water used for compaction. All costs for water shall be included within this item.
- .4 Measurement for payment shall be per tonne of RAP placed and compacted on the site, as evidenced by weigh scale slips from an approved weigh scale and signed by a County of Dufferin representative onsite upon delivery. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B26 AND C27 – DEWATERING

- .1 The work of this item shall include, without limitation, the design, supply, installation, operation and maintenance of one or more dewatering systems as required to complete all works within the project scope of work.

- .2 Disposal of water shall be done in accordance with OPSS.MUNI 518, and as required by the governing Conservation Authority. Water may not be disposed onto private property without the written consent of the property owner.
- .3 Drawdown pumping in excess of 50,000L/day shall be completed in accordance with OPSS.MUNI 517 and requires a Permit to take Water from the Ministry of Environment and Climate Change. The Contractor will be responsible to obtain all permits required to complete the dewatering activities. All costs associated with permits shall be included within this Tender Item.
- .4 Prior to the installation of shoring, cofferdams, or any other blockade, the Contractor shall submit detailed shop drawings to the County of Dufferin and the appropriate Conservation Authority for approval. Construction may not proceed until permission from all governing authorities has been granted. The Contractor shall submit all applications with adequate time to receive such permissions. The County of Dufferin will not be held responsible for any costs related to delays in the Contractors schedule resulting from the permit application process.
- .5 There will be no measurement for payment for this item. Payment of the lump sum price tendered shall be compensation in full for all related works.

TENDER ITEMS B27 AND C28 – 150 MILLIMETRE DIAMETRE PERFORATED SUBDRAIN COMPLETE WITH FILTER SOCK AND CLEAR STONE

- .1 The work of this item shall include, without limitation, the excavation for and supply and installation of 150 millimetre diameter perforated subdrain piping complete with clear stone encasement in locations as shown within the Contract drawings, and as directed by the County of Dufferin.
- .2 The work shall conform to OPSS.MUNI 405. Subdrain piping shall be heavy walled, polyethylene subdrain (Big 'O' Boss or equal) in accordance with OPSS 1840 complete with geotextile sock (Class 1 with filtration opening size of 150 to 450 microns).
- .3 Subdrain piping shall be completely encased in a minimum 150 millimetre clear stone surrounding the entire pipe. The outside of the clear stone bedding shall be wrapped with filter fabric (Mirafi 180N or approved equal). Clear stone shall meet the gradation requirements or OPSS.MUNI 1004.
- .4 Outlets shall be fitted with rodent grates, which are to be installed at the end of each outlet pipe. The cost for the supply and installation of rodent grates shall be included within the unit bid price of this tender item.
- .5 The upstream end of the subdrain shall be capped or plugged with approved fittings, or outletted to the existing ditch.
- .6 The work of this item shall include outlet pipe extensions directing the drainage to the adjacent ditch at a spacing not greater than one hundred metres or as directed by the County of Dufferin representative.
- .7 All subdrain outlet pipes are to be trimmed flush to the final slope grade prior to installation of the rodent grates. Rip-rap shall be placed at each outlet extending from the pipe end to the invert of the ultimate road cross section ditch. The cost

for the supply and placement the 150 millimetre diameter rip rap lined spillway complete with filter fabric (Mirafi 180N or approved equal) is to be included within this Contract tender item. The work of this item shall conform to OPSS.MUNI 511.

- .8 All excess material produced during the installation process shall be removed and disposed of offsite. Payment for the removal and offsite disposal of the material will be paid under items B11 and C12 Premium for Disposal of Surplus Excavated Material Offsite.
- .9 Measurement for payment shall be per linear metre of subdrain piping installed. Payment at the tendered unit price shall be compensation in full for all related works.

TENDER ITEMS B28 AND C29 – PERFORMANCE GRADED ASPHALT CEMENT PRICE INDEX ADJUSTMENT

- .1 The unit price of the base, surface, hand-placed and all associated asphalt items contained in the Contract shall be adjusted upward or downward to reflect the MTO's A.C. Pricing Index at the time of placement of asphalt.
- .2 The County of Dufferin will adjust the payment for hot mix asphalt to the Contractor based on changes to the Ministry of Transportation's (MTO) Performance Graded Asphalt Cement (PGAC) price index. The price index is published monthly in the MTO Contract Bulletin and will be displayed on the OHMPA (www.ohmpa.org) and MTO websites (www.raqsa.mto.gov.on.ca). The price index will be used to calculate the amount of the payment adjustment per tonne (t) of new asphalt cement accepted into the Work.
- .3 The price index will be based on the price, excluding taxes, FOB to the depots in the Toronto area, of asphalt cement grade PG 58-28 or equivalent. One index will be used to establish and calculate the payment adjustment for all grades. The price index for each month will reflect the average of the same month's prices and be published on the last day of the month and be retroactively applied to HMA laid in the same month.
- .4 A payment adjustment per tonne of new asphalt cement will be established for each month in which paving occurs when the price index for the month differs by more than \$15.00/tonne from the price index for the month prior to tender opening. When the price index differential is less than \$15.00/tonne, there will be no payment adjustment for that month. Payment adjustments due to changes in the price index are independent of any other payment adjustments made to the hot mix tender items.

The payment adjustment per tonne will apply to the quantity of new asphalt cement in the hot mix accepted into the Work during the month for which it is established. The payment adjustment for the month will be calculated by the following means:

- a. **When AC Prices are Rising** by more than a \$15.00/tonne difference: the payment adjustment to be paid to the Contractor is the result of subtracting the price index for the month prior to tender opening from the price index in effect when paving took place, minus the \$15.00 float, multiplied by the

- number of tonnes of PGAC incorporated in the mix(s) as determined by the job mix formula.
- b. **When AC Prices are Falling** by more than \$15.00/tonne difference: the payment adjustment made in favour of the Owner is the result of subtracting the price index in effect when paving took place, plus \$15.00 float from the price index for the month prior to the tender opening, multiplied by the number of tonnes of PGAC incorporated in the mix(s) as determined by the job mix formula.
- .5 The quantity of new asphalt cement includes all grades of asphalt cement supplied by the Contractor with and without polymer modifiers. For each month in which a payment adjustment has been established, the quantity of the escalation/de-escalation will be calculated using the hot mix quantity accepted into the Work and its corresponding asphalt cement content as required by the job mix formula except for mixes which contain reclaimed asphalt pavement.
- .6 For mixes which contain reclaimed asphalt pavement, or roof shingle tabs or both, the quantity of new asphalt cement will be determined from the difference between the asphalt cement required by the job mix formula and the asphalt cement content of the reclaimed asphalt pavement, or the roof shingle tabs or both incorporated into the hot mix, as calculated by the County of Dufferin.

Example 1 – AC Prices Increasing

PGAC 58-28 specified, 3,000 tonnes of HL3 @ 5.2% AC with no RAP and all virgin AC (156.0 tonnes AC)

The effective Price Index on July 17, 2006 on tender opening is \$433.80 (June, 2006)/tonne (PG 58-28)

The applicable Price Index as published on August 31st effective for the August 17-24 2007 actual paving dates is \$504/tonne (PG 58-28)

Payment adjustment to be paid to the Contractor:
 $(\$504 - \$15) - \$433.80 \times 156 \text{ tonnes AC} = \$55.20 \times 156 \text{ tonnes AC} = \$8611.20 + \text{HST}$

Example 2 – AC Prices Decreasing

PGAC 58-28 specified, 4,500 tonnes of HL8 @ 5.0% Total AC including 20% RAP containing 4.3% residual AC

New virgin AC in mix = $(80\% \times 5.0\%) + 20\% \times (5.0\% - 4.3\%) \times 4,500 = 186.3$ tonnes

The effective Price Index on May 5, 2007 on tender opening is \$508.60 (April, 2007) /tonne (PG 58-28)

The applicable Price Index as published on October 31 effective for the October 11-18, 2007 actual paving dates is \$451.35/tonne (PG 58-28)

Payment for hot mix items reduced by:

$(\$508.60 - \$15) - \$451.35 \times 186.3 \text{ tonnes AC} = \$42.25 \times 186.3 \text{ tonnes AC} =$
 $\$8745.75 + \text{HST}$

Notes:

- Contractors should bid the hot mix asphalt item using the cost of the PGAC specified. The AC Price Index is only a tool for qualifying hot mix prices and is not intended as a standard AC price to be incorporated into the Contract bid.
 - The payment adjustment calculated using this formula is full compensation for any and all PGAC grades specified.
 - If the AC Index has not changed more than \$15.00 per tonne up or down, no adjustment is required. Only the amount of the change that is greater than \$15.00 is used to calculate payment adjustments.
 - The AC Price index for the month prior to tender opening will be used as the AC bid price to calculate AC adjustments.
- .7 Qualifying payment adjustments shall be made on the monthly progress payment certificate for the months in which hot mix paving occurs.

Section 5 - Ontario Provincial Standard Specifications and Drawings

Note: All specifications used must be the most recent date or revision and shall be municipal oriented or municipal and provincial common, with exceptions being provincial oriented as noted below in **BOLD**.

Table 1 - Ontario Provincial Standard Specifications

100	OPS General Conditions of Contract
102	Weighing of Materials
127	Schedule of Rental Rates for Construction Equipment
128	Supply of Pre-Qualified Material and Products
180	Management of Excess Materials
206	Grading
301	Restoring Unpaved Roadway Surfaces
305	Granular Sealing
310	Hot Mix Asphalt
314	Untreated Granular, Subbase, Base, Surface, Shoulder, and Stockpiling
PROV 330	In-Place Full Depth Reclamation of Bituminous Pavement and Underlying Granular (Pulverizing)
353	Concrete Curb and Gutter Systems
401	Trenching, Backfilling and Compacting
405	Construction Specification for Pipe Subdrains
421	Pipe Culvert Installation in Open Cut
491	Preservation, Protection and Reconstruction of Existing Facilities
501	Compacting
506	Dust Suppressants
510	Removals
511	Rip Rap, Rock Protection and Granular Sheeting
517	Dewatering of Pipeline, Utility and Associated Structure Excavation
518	Control of Water from Dewatering Operations

706	Traffic Control Signing
710	Pavement Marking
721	Steel Beam Guide Rail and Cable Guide Rail
802	Topsoil
804	Seed and Cover
805	Temporary Erosion and Sediment Control Measures

Table 2 - Ontario Provincial Standard Drawings

206.050	Subdrain Pipe Connection and Outlet, Rural
208.010	Benching of Earth Slopes
210.070	Granular Sealing
219.110	Light-Duty Silt Fence Barrier
600.030	Concrete Mountable Curb with Wide Gutter
604.010	45° Concrete Outlet for Concrete Curb with Gutter at End of Run
802.010	Flexible Pipe Embedment and Backfill, Earth Exc.
803.030	Frost Treatment - Pipe Culverts, Frost Penetration Line Below Bedding Grade
810.010	General Rip-Rap Layout for Sewer and Culvert Outlets
913.130	Guide Rail System, Cable

Section 6 - Contract Drawings

RFT-TS-08-20 Contract Drawings Schedule A:

[Link to Schedule A Drawings](#)

RFT-TS-08-20 Contract Drawings Schedule B:

[Link to Schedule B Drawings](#)

RFT-TS-08-20 Contract Drawings Schedule C:

[Link to Schedule C Drawings](#)

Tender Form

For the Provision of: **Pulverizing and Hot Mix Paving**

As Supplied by:

 Firm Name

 Address

 City, Province and Postal Code

Hereinafter Called the Bidder

To: The Corporation of Grey County
595 9th Avenue East
Owen Sound Ontario, N4K 3E3
Hereinafter Called the Corporation

The Bidder Declares

1. No person(s), firm or corporation, other than the Bidder, has any personal interest in this Tender or in the award for which this Tender is made;
2. No member of Council, no officer or employee of the Corporation is or will become interested directly or indirectly as a contracting party, partner, shareholder, surety or in any portion of the profits thereof, or in any of the monies to be derived, therefrom;
3. This Tender is made without any connection, comparison of figures, or arrangements with, or knowledge of any other corporation, firm or person making a Tender for the same and is in all respects without collusion or fraud;
4. By signing this submission, I confirm I have read and understood the content and requirements of this Tender document;

Acknowledgement to receipt of Addenda

This will acknowledge receipt of the following addenda and that the pricing tendered quoted includes the provision set out in such addenda;

Addendum #	Date Received
# _____	_____
# _____	_____
# _____	_____
# _____	_____
# _____	_____

___ **Check here if NO Addenda received**

LOWEST OR ANY TENDER NOT NECESSARILY ACCEPTED

Date _____, 2020

Signature of Bidder

By my signature, I hereby confirm I am a principal, or have been duly authorized by the principal/board, to sign on behalf of the above named.

Schedule of Items and Prices

The price chart below is a SAMPLE only. An electronic form can be found on the Bid Table section within the Bonfire Portal.

Note: Quantities are approximate and may be increased, decreased or eliminated without penalty.

Schedule A – County of Grey

Item	Description	Spec	Quantity	Unit
1	Granular Sealing - Hand Spraying	305	112	m2
2	Tack Coat	310	85,540	m2
3	HL3	310	9,221	t
4	HL8	310	13,832	t
5	Granular A	314	12,345	t
6	In-Place Full Depth Reclamation of Bituminous Pavement and Underlying Granular (Pulverizing)	330	85,540	m2
7	Mountable Concrete Curb with Wide Gutter	353	63	m
8	Pipe Subdrain	405	63	m
9	450 mm HDPE Centreline Pipe Culverts	421	15	m
10	600 mm HDPE Centreline Pipe Culverts	421	52	m
11	1780x1360 mm Corrugated Steel Pipe Arch Centreline Pipe Culverts	421	16	m
12	Removal of Centreline Pipe Culverts	510	98	m
13	Removal of Storm Sewer Structure	510	1	ea
14	Removal of Storm Sewer Pipe	510	22	m
15	Removal of Cable Guide Rail	510	112	m
16	Traffic Control and Signing	706	1	LS
17	Pavement Marking - Solid Yellow	710	11,842	m
18	Pavement Marking - 363 Broken Yellow	710	1,570	m
19	Pavement Marking - Solid White	710	17,800	m
20	Pavement Marking - 60cm Stop Blocks	710	82	m
21	3 Cable Guide Rail	721	112	m
22	Topsoil - Imported	804	300	m2
23	Hydroseed	804	300	m2
24	Light Duty Silt Fence Barrier	805	100	m
25	Pre-Construction Building Condition / Crack Survey	n/a	1	LS

Schedule A Contingency

<i>Item</i>	<i>Description</i>	<i>Spec</i>	<i>Quantity</i>	<i>Unit</i>
26	Earth Excavation – (Contingency)	206	100	m3
27	Earth Ditch Cleanout – (Contingency)	206	500	m
28	19mm Clearstone Bedding – (Contingency)	314	100	t
29	Granular 'B' Type 1 – (Contingency)	314	200	t
30	300mm HDPE Entrance Culvert Removal and Replacement – (Contingency)	206	24	m
31	450mm HDPE Entrance Culvert Removal and Replacement – (Contingency)	206	24	m
32	525mm HDPE Entrance Culvert Removal and Replacement – (Contingency)	206	24	m
33	R-10 Rip Rap – (Contingency)	511	130	m2

Schedule B – County of Dufferin

	<i>Description</i>	<i>Schedule B Tender Item #'s</i>	<i>Spec</i>	<i>Quantity Required</i>	<i>Unit of Measure</i>
1	Traffic Control	B1	706	1	L.S.
2	Heavy Duty Wire-Backed Silt Fence	B2	805	137.6	m
3	Fibre Roll Flow Check Dams	B3	805	8	ea
4	a) 600mm Dia. CSP - 6th Line NE	B4	510	12.1	m
5	b) 450mm Dia. CSP - 8th Line NE (South Side)	B4	510	16.1	m
6	c) 450mm Dia. CSP - 8th Line NE (North Side)	B4	510	15.2	m
7	d) 450mm Dia. CSP - Sta 6+777.79	B4	510	17.1	m
8	e) 600mm Dia. CSP - Sta 7+668.57	B4	510	18.4	m
9	a) 450mm Dia. CSP - Sta 3+771.55	B5	510	9.3	m
10	b) 375mm Dia. CSP - Sta 4+251.16	B5	510	10.3	m
11	c) 300mm Dia. CSP - Sta 6+380.26	B5	510	5.9	m
12	d) 300mm Dia. CSP - Sta 6+647.50	B5	510	6.1	m
13	e) 900mm Dia. CSP - Sta 7+456.55	B5	510	6.1	m
14	f) 375mm Dia. CSP - Sta 7+975.87	B5	510	6.4	m

	Description	Schedule B Tender Item #'s	Spec	Quantity Required	Unit of Measure
15	a) 600mm Dia. HDPE - 6th Line NE	B6	421	13	m
16	b) 600mm Dia. HDPE - 8th Line NE (South Side)	B6	421	16	m
17	c) 600mm Dia. HDPE - 8th Line NE (North Side)	B6	421	16	m
18	d) 600mm Dia. HDPE - Sta 6+777.79	B6	421	17	m
19	a) 450mm Dia. HDPE - Sta 4+251.16	B7	421	12	m
20	b) 450mm Dia. HDPE - Sta 6+380.26	B7	421	7	m
21	c) 450mm Dia. HDPE - Sta 6+647.50	B7	421	7	m
22	d) 900mm Dia. HDPE - Sta 7+456.55	B7	421	8	m
23	e) 450mm Dia. HDPE - Sta 7+975.87	B7	421	8	m
24	a) 600mm Dia. HDPE - 6th Line NE	B8	511	24	m ²
25	b) 600mm Dia. HDPE - 8th Line NE (South Side)	B8	511	29.7	m ²
26	c) 600mm Dia. HDPE - 8th Line NE (North Side)	B8	511	36.2	m ²
27	d) 600mm Dia. HDPE - Sta 6+777.79	B8	511	24.2	m ²
28	Supply, Haul, Place and Compact Granular 'A'	B9	314 102	250	t
29	Ditching	B10	206	50	m
30	Premium for Disposal of Surplus Excavated Material Off-Site	B11	180	390	m ³
31	Import Topsoil, Place, Fine Grade and Hydroseed	B12	802 804	390	m ²
32	Pulverize, Fine Grade and Compact Existing Asphalt and Granular Base	B13	330	33260	m ²
33	Mill, Remove, and Dispose of Existing Asphalt Pavement (50mm)	B14	510 180	30	m ²
34	Mill, Remove, and Dispose of Existing Asphalt Pavement (110mm)	B15	510 180	240	m ²
35	Fine Grading in Preparation for Paving	B16	206	410	m ²
36	Street Sweeping / Clean Existing Roadways	B17		1	L.S.

	Description	Schedule B Tender Item #'s	Spec	Quantity Required	Unit of Measure
37	Water for Dust Control	B18	506	1	L.S.
38	Placement of Hot Mix Asphalt, HL8 (60mm)	B19	102 310 313	6670	t
39	Placement of Hot Mix Asphalt, HL3 (50mm)	B20	102 310 313	5570	t
40	Supply, Haul, Place and Compact Granular 'A' Shoulder Gravel (110mm)	B21	314 102	2400	t
41	Calcium Chloride	B22	506	6	ea.

Schedule B Contingency

	Description	Schedule B Tender Item #'s	Spec	Quantity Required	Unit of Measure
42	Sub Excavation and Disposal (Offsite) (Contingency)	B23	180	220	m ³
43	Supply, Haul, Place and Compact Granular 'B' (Contingency)	B24	102 314	390	t
44	Supply, Haul, Place and Compact Reclaimed Asphalt Products (R.A.P.) (Contingency)	B25	102 314 1003	25	t
45	Dewatering (Contingency)	B26	517 518	1	L.S.
46	150 Millimetre Diameter Perforated Subdrain Complete with Filter Sock and Clear Stone (Contingency)	B27	405 511	50	m

Schedule C – County of Dufferin

	Description	Schedule C Tender Item #'s	Spec	Quantity Required	Unit of Measure
1	Traffic Control	C1	706	1	L.S.
2	Heavy Duty Wire-Backed Silt Fence	C2	805	124.7	m
3	Fibre Roll Flow Check Dams	C3	805	9	ea
4	a) 600mm Dia. CSP - sta 0+794.25	C4	510	28	m
5	b) 1200mm Dia. CSP - Sta 1+500.55	C4	510	25.6	m

	Description	Schedule B Tender Item #'s	Spec	Quantity Required	Unit of Measure
6	c) 450mm Dia. CSP - Sideroad 220	C4	510	14.4	m
7	a) 450mm Dia. CSP - Sta 0+540.93	C5	510	11.3	m
8	b) 375mm Dia. CSP - Sta 1+050.46	C5	510	7.5	m
9	c) 375mm Dia. CSP - Sta 1+117.09	C5	510	9.1	m
10	d) 450mm Dia. CSP - Sta 1+331.84	C5	510	7.6	m
11	e) 450mm Dia. CSP - Sta 1+594.57	C5	510	7.4	m
12	f) 450mm Dia. CSP - Sta 1+596.25	C5	510	7.4	m
13	g) 400mm Dia. CSP - Sta 2+066.38	C5	510	7.5	m
14	h) 600mm Dia. CSP - Sta 2+959.18	C5	510	3.3	m
15	i) 600mm Dia. CSP - Sta 2+965.74	C5	510	6.9	m
16	a) 900mm Dia. HDPE - sta 0+794.25	C6	421	30	m
17	b) 600mm Dia. HDPE - Sideroad 220	C6	421	16	m
18	a) 450mm Dia. HDPE - Sta 0+540.93	C7	421	12	m
19	b) 450mm Dia. HDPE - Sta 1+050.46	C7	421	8	m
20	c) 450mm Dia. HDPE - Sta 1+078.75	C7	421	16	m
21	d) 450mm Dia. HDPE - Sta 1+117.09	C7	421	10	m
22	e) 450mm Dia. HDPE - Sta 1+331.84	C7	421	8	m
23	f) 450mm Dia. HDPE - Sta 1+594.57	C7	421	8	m
24	g) 450mm Dia. HDPE - Sta 1+596.25	C7	421	8	m
25	h) 600mm Dia. HDPE - Sta 2+959.18	C7	421	5	m
26	i) 600mm Dia. HDPE - Sta 2+965.74	C7	421	8	m
27	a) 1200mm Dia. SRPE - Sta 1+500.55	C8	421	27	m
28	a) 900mm Dia. HDPE - sta 0+794.25	C9	511	43	m ²
29	b) 1200mm Dia. SRPE - Sta 1+500.55	C9	511	48.8	m ²
30	c) 600mm Dia. HDPE - Sideroad 220	C9	511	17	m ²
31	Supply, Haul, Place and Compact Granular 'A'	C10	314 102	450	t
32	Ditching	C11	206	215	m
33	Premium for Disposal of Surplus Excavated Material Off-Site	C12	180	580	m ³

	<i>Description</i>	<i>Schedule B Tender Item #'s</i>	<i>Spec</i>	<i>Quantity Required</i>	<i>Unit of Measure</i>
34	Import Topsoil, Place, Fine Grade and Hydroseed	C13	802 804	1500	m ²
35	Pulverize, Fine Grade and Compact Existing Asphalt and Granular Base	C14	330	22160	m ²
36	Mill, Remove, and Dispose of Existing Asphalt Pavement (50mm)	C15	510 180	50	m ²
37	Mill, Remove, and Dispose of Existing Asphalt Pavement (110mm)	C16	510 180	400	m ²
38	Fine Grading in Preparation for Paving	C17	206	350	m ²
39	Street Sweeping / Clean Existing Roadways	C18		1	L.S.
40	Water for Dust Control	C19	506	1	L.S.
41	Placement of Hot Mix Asphalt, HL8 (60mm)	C20	102 310 313	3600	t
42	Placement of Hot Mix Asphalt, HL3 (50mm)	C21	102 310 313	3010	t
43	Supply, Haul, Place and Compact Granular 'A' Shoulder Gravel (110mm)	C22	314	3000	t
44	Calcium Chloride	C23	506	5	ea.

Schedule C Contingency

	<i>Description</i>	<i>Schedule B Tender Item #'s</i>	<i>Spec</i>	<i>Quantity Required</i>	<i>Unit of Measure</i>
45	<i>Sub Excavation and Disposal (Offsite) (Contingency)</i>	C24	180	190	m ³
46	<i>Supply, Haul, Place and Compact Granular 'B' (Contingency)</i>	C25	102 314	350	t
47	<i>Supply, Haul, Place and Compact Reclaimed Asphalt Products (R.A.P.) (Contingency)</i>	C26	102 314 1003	25	t
48	<i>Dewatering (Contingency)</i>	C27	517 518	1	L.S.
49	<i>150 Millimetre Diameter Perforated Subdrain Complete with Filter Sock and Clear Stone (Contingency)</i>	C28	405 511	50	m

Bidder Information Form

Bidders must complete this form and include with the Tender Submission.
Please ensure all information is legible.

1.	Bidder's Contact Individual	
2.	Office Phone #	
3.	Mobile #	
4.	Email Address	
5.	WSIB Account# (if applicable)	
6.	HST Account #	

Print Name: _____ **Date:** _____

Signature: _____

Bidder's Ability and Experience Form

Respondents shall provide information below on contracts in this class of work that has been successfully undertaken by the Bidder's Firm in the past three years.

Contract #1	
Reference Name	
Contact & telephone #	
Contract Term (# years)	
Total Value (annual)	
Description of Work	
Additional Comments (optional)	
<hr style="border: 1px solid black;"/>	
Contract #2	
Reference Name	
Contact & telephone #	
Contract Term (# years)	
Total Value (annual)	
Description of Work	
Additional Comments (optional)	
<hr style="border: 1px solid black;"/>	
Contract #3	
Reference Name	
Contact & telephone #	
Contract Term (# years)	
Total Value (annual)	
Description of Work	
Additional Comments (optional)	

Print Name: _____ **Date:** _____

Signature: _____

Subcontractor Information Form

1. Check here _____ if **NO Subcontracting**
2. The **Bidder** shall list below, the Subcontractors which will assist in the completion of the work.

Name of Subcontractor	Address of Subcontractor	Work Type to be Subcontracted	Scope of Work & Experience

Note: If additional space is required please include extra pages as required.

Print Name: _____ **Date:** _____

Signature: _____