

**CONSTRUCTION AGREEMENT**

This Agreement made this 9<sup>th</sup> day of September, 2024

Between:

**MADWEST BRESLAU LIMITED**  
(hereinafter called "**Madwest**")

OF THE FIRST PART,

-and-

**WOOLWICH SOUTH HOLDINGS LIMITED**  
(hereinafter called "**Woolwich South**")

OF THE SECOND PART,

(and with the parties of the First Part and Second Part hereinafter collectively called the "**Subdivider**")

-and-

**THE CORPORATION OF THE TOWNSHIP OF WOOLWICH**  
(hereinafter called the "**Township**")

OF THE THIRD PART,

-and-

**CANADIAN IMPERIAL BANK OF COMMERCE**  
(hereinafter called the "**Mortgagee**")

OF THE FOURTH PART.

**WHEREAS** the Subdivider represents to the Township that it owns absolute title to lands located at 110 and 118 Menno Street, 33, 37 and 38 Mader's Lane and 231 Woolwich Street South in the Township, described in Schedule "A" attached hereto (hereinafter also known as the "Lands") and comprising all of Plan of Subdivision application 30T-20701 as shown in Schedule "B" (hereinafter called the "Madwest Draft Plan" or "Draft Plan");

**AND WHEREAS** the Township represents to the Subdivider that it owns Menno Street, extending from the easterly property lines of properties at 59 and 60 Menno Street to Fountain Street North and situated within the Madwest Draft Plan as set out in Schedule "B" (hereinafter called the "Township Lands" or "Menno Street Portion");

**AND WHEREAS** the Subdivider has applied to and received the Regional Municipality of Waterloo (the "Region") approval of the Madwest Draft Plan with respect to the Lands and the Menno Street Portion;

**AND WHEREAS** the Township, pursuant to conditions imposed by the Region for the Madwest Draft Plan (hereinafter the "Township Draft Plan Conditions"), requires the construction and completion of a municipal road and associated appurtenances/services, which extend from Woolwich Street South (on the west) to Fountain Street North (on the east) as set out on the Madwest Draft Plan and further described on the reference plan attached as Schedule "I" to this Agreement (hereinafter referred to as the "Ottawa Street Extension" and with the lands upon which the Ottawa Street Extension referred to as the "Extension Lands"), to service the Madwest Draft Plan as well other lands in the Township, prior to the pre-servicing and registration of the 1<sup>st</sup> phase of the Draft Plan as a plan of subdivision;

**AND WHEREAS** pursuant to the Township Draft Plan Conditions and its Subdivision policies requires the Subdivider to enter into this Agreement to satisfy all matters, financially and otherwise, for the construction, acceptance and assumption of the Ottawa Street Extension;

**AND WHEREAS** when the Subdivision Agreement for the entirety of the Madwest Draft Plan has been registered, this Construction Agreement will remain on title and any conflict, ambiguity, inconsistency or discrepancy between the terms and conditions of this Construction Agreement and any agreements incorporated by reference will be resolved by giving preference to the terms and conditions of the Subdivision Agreement;

**AND WHEREAS** the Township Draft Plan Conditions require the Ottawa Street Extension to be completed and opened as a public road prior to and independent of the remaining internal Public Works for the Madwest Draft Plan that will be implemented through one or more separate pre-servicing agreement(s) and/or subdivision agreement(s) with the Subdivider pursuant to the Township Draft Plan Conditions;

**AND WHEREAS** the Subdivider's timing and conveyance of the Ottawa Street Extension to the Township, and the Township's timing, closing and conveyance of the Menno Street Portion to the Subdivider, of which a portion will form part of the Ottawa Street Extension and the remnant will be developed as part of the Madwest Draft Plan, will be administered and implemented through a separate agreement between the Subdivider and the Township, dated July 24, 2024 and registered as Instrument No. WR \_\_\_\_\_ (hereinafter referred to as the "Land Exchange Agreement");

**NOW THEREFORE THIS AGREEMENT WITNESSTH THAT** in consideration of the exchange of two (\$2.00) dollars by each party to the other, the covenants expressed herein, the approval of the Subdivider's Plan of Subdivision pursuant to Section 50 of the *Planning Act*, R.S.O. 1990, c. P.13, as amended (the "*Planning Act*"), and for other good and valuable consideration (the receipt and sufficiency of which the parties hereto expressly acknowledge), the parties hereto covenant and agree one with the other as follows:

**1.0 SCHEDULES**

1.1 Schedules "A" to "K" attached hereto shall form an integral part of this Agreement, which include:

- A Legal Description of the Parties' Lands
- B Draft Reference Plan describing the Ottawa Street Lands
- C Description and drawings of all easements, lands and reserves to be conveyed to the Township upon completion of the Works, or as directed by the Director of Development Services
- D Summary of Financial Payments to the Township by the Subdivider
- E List of Items for which Letters of Credit are to be Filed by the Subdivider upon Execution of this Agreement
- F Return of Letters of Credit
- G Schedule of Construction Dates
- H Estimate of Cost of Construction of the Works
- I Subdivision Draft Plan
- J Engineering and Planning Drawings
- K Cost of Construction – Township and Subdivider Portions

**2.0 DEFINITIONS**

- 2.1 "Acceptance" means the decision of the Director of Infrastructure Services or the Director of Development Services, where noted, to accept the Works or any portion thereof and to initiate the maintenance period for any portion of the Works, pending the completion of all requirements noted in this Agreement, and "Accepted" shall have a corresponding meaning. In addition, "Acceptance" shall mean Performance Acceptance and/or Final Acceptance as the context indicates;
- 2.2 "Assumption" means the decision of the Director of Infrastructure Services or the Director of Development Services, where noted, confirming that all Works under this Agreement have been completed, the maintenance period for the Works has expired and no other obligations under this Agreement remain outstanding other than as may be specified on the date of Assumption, and "Assumed" shall have a corresponding meaning.
- 2.3 "As Constructed Drawings" means digital and hard copies of drawings of all the Works, modified to reflect actual construction, and accepted by the Director of Development Services.
- 2.4 "Business Day" means any day, other than a Saturday, Sunday or statutory holiday, in Ontario.
- 2.5 "Credit or Credits" where used in this Agreement shall mean any off set from a Township development charge payable and shall not be confined to the meaning assigned to the word "credit" in the *Development Charges Act, 1997*, S.O. 1997, c. 27, as amended.
- 2.6 "Development Charge Payable" where used in this Agreement shall mean the applicable residential unit and/or non-residential gross floor area rate, which is comprised of a Township Wide and Area Specific servicing component, but does not include the Area Specific Breslau Sanitary Servicing component as outlined in the Township's Development Charges By-law No. 39-2024, as amended, or the applicable Township Development Charges By-law in effect at the time of payment.

- 2.7 "Draft Plan or Phasing Plan" or "Subdivision Plan" where used in this Agreement shall mean the Draft Plan for the development as approved by the Region and shown in Schedule "I" to this Agreement, unless the reference identifies a specific draft plan, such as the Midwest Draft Plan, as approved by the Region and shown in Schedule "I".
- 2.8 "Engineering and Planning Drawings" where used in this Agreement shall mean the plans and reports approved by the Township and listed in Schedule "J" of this Agreement.
- 2.9 "Final Acceptance" shall have the meaning given to that term in Section 8.2;
- 2.10 "Lot or Block Owner" where used in this Agreement shall mean the Subdivider, unless a lot or block, to which it is referenced, has been conveyed to another party, in which case that party shall be the Lot or Block Owner.
- 2.11 "Performance Acceptance" shall have the meaning given to such term in Section 8.1. For greater certainty, with respect to the road portion of the Works, this shall mean that all curbs are in place and the road has been completed to the base course of asphalt condition;
- 2.12 "Phasing or Staging Plan" where used in this Agreement shall mean the Plan showing the staging of servicing and development as identified in Schedule "I" of this Agreement.
- 2.13 "Phase" shall mean any portion of the Draft Plan intended to be registered as a plan of subdivision and "Phase 1" shall mean the first phase of the Draft Plan intended to be registered as a plan of subdivision;
- 2.14 "Plan" where used in this Agreement shall mean the Reference Plan identified in Schedule "B";
- 2.15 "Public Works or Works" where used in this Agreement shall mean the necessary grading, drainage facilities, road works, and services itemized in Schedule "H".
- 2.16 "Subdivider" where used in this Agreement shall mean and include an individual, association, partnership or incorporated company and, wherever the singular is used, it shall be construed as including the plural, and wherever the masculine is used it shall be construed as including the feminine.

### 3.0 **OBLIGATIONS OF THE SUBDIVIDER**

#### 3.1 Subdivider's Expense

The Subdivider covenants with the Township to do each and every of the following things:

- 3.1.1 To provide to the Township a signed copy of the final executed tender documents for the works required to construct the Ottawa Street Extension as itemized in Schedule "H".
- 3.1.2 To install, all to the satisfaction of the Director of Development Services (or their designate), and pay the cost of the installation of the Works, as set out in Schedule "H", to be installed prior to Phase 1 of the Draft Plan and in accordance with the Phasing or Staging Plan and also according to the requirements of the Township and/or the Region and applicable agencies. The installation of such Works can only commence prior to the plan or applicable phase being registered in accordance with this Agreement (hereinafter referred to as "Pre-Servicing"). Furthermore, the Subdivider agrees to provide, operate and maintain the Works until such time as they have received Final Acceptance by the Township, pursuant to Subsection 8.2 of this Agreement, according to Plans prepared by the Subdivider and approved by the Township and/or the Region and/or the Grand River Conservation Authority (the "GRCA") and/or the applicable agency, which Plans are identified in Schedule "J" attached hereto.
- 3.1.3 To enter into an Agreement with the local hydro, telecommunications and gas utility authority, as needed, to provide for the cost of the construction and installation of all underground electrical wiring, gasmain and services within the Ottawa Street Extension.
- 3.1.4 To develop and maintain the Lands to the satisfaction of the Township, the GRCA and the Region and in accordance with the Engineering and Planning Drawings approved by the Township, the GRCA and the Region.
- 3.1.5 To be responsible for and immediately repair any damage caused to other properties by reason of the development of the Ottawa Street Extension to the satisfaction of the Director of Development Services or their designate.
- 3.1.6 Upon the execution of this Agreement, to pay to the Township the amounts and provide the Township with the securities, all as set out in Schedule "K" to this Agreement.

- 3.1.7 To have its engineer provide and certify to the Township a summary of the final construction costs of the Works.

### 3.2 Failure to Carry out the Terms of this Agreement

- 3.2.1 In the event the Subdivider or Lot Owner fails or neglects to carry out the terms of this Agreement, and fails to construct the services in an expeditious manner, the Township or its agents may, upon five (5) Business Days' written notice by registered mail, enter upon the Lands and proceed to supply all materials and do all necessary work in connection with the installation of the said services and to charge the cost thereof, together with the engineering fees (*i.e.*, those fees required to retain an engineering consultant to administer the contract to complete the outstanding works plus any administration cost incurred by the Township) based on the cost of such materials and work to the Subdivider who shall forthwith pay the same upon demand.
- 3.2.2 It is understood and agreed that, upon such entry by the Township on the Lands, sufficient monies as placed on deposit with the Township to ensure completion of the said services shall be forfeited by the Subdivider and shall be applied firstly by the Township towards the servicing costs for the Lands of any work undertaken by the Township, and, secondly, to all other remedies which may exist at such time. The Township may refuse to issue further building permits until such works have been completed by the Township and until payment has been made to the Township for such services as defined in this Agreement.
- 3.2.3 If at any time the work or construction of the municipal services referred to herein is not, in the opinion of the Township, being carried out in accordance with the plans and specifications or in accordance with good engineering practice, the Township may stop all or any part of the work for any length of time until such work has been placed in a satisfactory condition.
- 3.2.4 If at any time the work or construction of the municipal services referred to herein has, in the opinion of the Township, commenced without the Subdivider fulfilling all of the applicable pre-condition requirements or obtaining the required approvals, clearances or permits as outlined throughout this Agreement, the Township may stop all or any part of the work for any length of time until the outstanding pre-condition requirements, approvals, clearances and/or permits have been addressed to the satisfaction of the Township.

## 4.0 **FINANCE AND INSURANCE**

### 4.1 Payment of Fees

The Subdivider agrees:

- 4.1.1 To pay a six (6%) per cent Development Engineering and Administration Fee to the Township prior to commencement of construction of the Ottawa Street Extension, as outlined in Schedule "B", based on the construction value of the Works outlined in Schedule "H" (not including HST) for the Plan. The calculation of the Development Engineering and Administration Fee and the timing of payment is based on the following:
  - a) half of the six (6%) per cent fee will be collected at the time of approval of the Engineering and Planning Drawings for Ottawa Street Extension based on an estimated cost of the construction value of the Works outlined in Schedule "H"; and
  - b) the balance owing of the six (6%) per cent fee, based on a revised cost estimate or tender cost of the construction value of the Works outlined in Schedule "H", will be collected prior to Performance Acceptance of the Ottawa Street Extension.
- 4.1.2 In addition to the six (6%) per cent Development Engineering and Administration Fee referenced in Clause 4.1.1, an additional fee will be collected for each infrastructure inspection that occurs beyond the third inspection and any additional fees as may be levied pursuant to the Township's Fees and Charges By-law.

### 4.2 Indemnification

- 4.2.1 Both during and after the term of this Agreement, the Subdivider shall at all times, and at its own cost, expense and risk, defend, indemnify and hold harmless the Township, its elected officials, officers, employees, volunteers, agents, contractors, and all respective heirs, administrators, executors, successors and assigns from any and all losses, damages (including, but not limited to, incidental, indirect, special and consequential damages, or any loss of use, revenue or profit by any person, organization or entity), fines, penalties and surcharges, liabilities (including, but not limited to, any and all liability for damage to property and injury to persons, including death), judgments, claims, demands, causes of action, contracts, suits, actions or other proceedings of any kind (including, but

not limited to, proceedings of a criminal, administrative or quasi-criminal nature) and expenses (including, but not limited to, legal fees on a substantial indemnity basis), which the indemnified person or persons may suffer or incur, howsoever caused, arising out of or in consequence of or directly or indirectly attributable to anything required to be performed under this Agreement by the Subdivider, its agents, employees and sub-contractors as part of this Agreement, provided such losses, damages, fines, penalties and surcharges, liabilities, judgments, claims, demands, causes of action, contracts, suits, actions or other proceedings of any kind and expenses as defined above are due or claimed to be due to the negligence, breach of contract, and/or breach of law of the Subdivider, its agents, employees or sub-contractors.

4.2.2 The Subdivider shall take all precautions necessary to protect the public against injury on the Lands.

4.2.3 The Subdivider shall ensure compliance with, and shall satisfy any and all requirements of, the *Occupational Health and Safety Act*, R.S.O. 1990. c. O.1, as amended (the "OHSA"). The Subdivider shall indemnify, defend, and hold harmless the Township against, but not limited to, any and all fines, penalties, damages, claims, or actions which may arise under the OHSA due to any breach for which the Subdivider is responsible. The Subdivider will be recognized as the "owner" in this Agreement.

### 4.3 Insurance

It is the responsibility of the Subdivider and their Insurance Broker to review all potential operations and exposures to determine if the coverage and limits noted below are sufficient to address all insurance-related exposures presented by the specifications of this Agreement, Works or supply. In addition to the Certificate that the Contractor is required to provide to the Township as outlined in Subsection 6.3 of this Agreement, the Subdivider shall insure its undertaking, business and equipment under the following coverage so as to protect and indemnify and save harmless the Township:

4.3.1 General Liability Insurance: The Subdivider shall maintain liability insurance on an occurrence basis acceptable to the Township throughout the term of this Agreement from the date of commencement of work until the date of Final Acceptance referenced in Subsection 8.2. Liability coverage shall be provided for completed operations hazards from the date of Final Acceptance of the work on an ongoing basis for a period of six (6) years following Final Acceptance. Coverage shall consist of a comprehensive policy of public liability and property damage insurance, with all applicable coverage extensions-/endorsements available, in an amount of not less than Five Million (\$5,000,000) Dollars per occurrence. Such insurance shall name the Township as an additional insured with a cross-liability endorsement and severability of interest's provision. The policy SIR/deductible shall not exceed One Hundred Thousand (\$100,000) Dollars per claim (unless approved by Risk Management) and, if the policy has an aggregate limit, the amount of the aggregate shall be double the required per occurrence limit. This insurance policy must contain no exclusions for damage or loss from blasting or from any other work that may be associated with the development and construction of a subdivision.

4.3.2 Owned and Non-Owned Automobile Liability Insurance: The Subdivider shall maintain liability insurance on all Owned, Non-Owned and Leased Automobiles used in the performance of this project to a limit of Two Million (\$2,000,000) Dollars per occurrence throughout the term of this Agreement from the date of commencement of work and until one year after the date of substantial performance of work.

4.3.3 Provisions: Prior to the commencement of work, the Subdivider shall forward a Certificate of Insurance (the "C of I") evidencing this insurance with the executed Agreement and, thereafter, on or prior to the expiry of the insurance coverage. The C of I shall state that coverage will not be suspended, voided, cancelled, reduced in coverage or in limits except after thirty (30) days' (ten (10) days if cancellation is due to non-payment of premium) prior written notice by certified mail to the Township. The Subdivider shall provide a renewal C of I to the Township not later than thirty (30) days prior to the expiry date of any policy provided pursuant to this Agreement, until the Township has indicated in writing that the policy need not continue in force any longer. In the event that such renewal certificate is not received, the Township shall be entitled to either renew the policy at the expense of the Subdivider by drawing on the Letter of Credit referenced in Subsection 4.5 or to order that all work on the Lands cease until the policy is renewed.

It is also understood and agreed that, in the event of a claim, any deductible or self-insured retention under these policies of insurance shall be the sole responsibility of the Subdivider and that this coverage shall preclude subrogation claims against the Township and any other person insured under the policy and be primary insurance in response to claims. Any insurance or self-insurance maintained by the Township and any other person insured

under the policy shall be considered excess of the Subdivider's insurance and shall not contribute with it. The minimum amount of insurance required herein shall not modify, waive or otherwise alter the Subdivider's obligation to fully indemnify the Township under this Agreement.

Acting reasonably, the Township reserves the right to modify the insurance requirements as deemed suitable.

- 4.3.4 Third Party Claims Process: The Township's claims process for Third Party claims is to refer the claimant directly to the Subdivider and to leave the resolution of the claim with the Subdivider. This applies regardless of whether or not it is an insured loss.

Given that it has a responsibility to the taxpayers of Woolwich, the Township must ensure that claimants are dealt with in a fair and efficient manner. Claims reported to the Subdivider, either directly by a third party or through the Township, shall be promptly investigated by the Subdivider (its insurer or adjuster). The Subdivider shall make contact with the third-party claimant upon receipt of notice of a claim. The Subdivider shall initiate an investigation of the claim immediately upon notice and advise the third-party claimant in writing (preferably by a qualified third-party adjusting firm), with a copy to the Township, of its position regarding the claim upon completion of this investigation. Such investigation shall be done in a professional manner and reasonable time frame consistent with Insurance Institute of Canada practices. The Subdivider shall include in their response the reasons for their position. Should this position not resolve the claim and be accepted by the third-party claimant, the Subdivider shall immediately report the claim to its insurer. If the Subdivider fails to follow this procedure, the Township may report such claims directly to the Subdivider's insurer.

Nothing herein shall limit the right of the Township to investigate and resolve any such claims notwithstanding the response of the Subdivider and/or its insurer and to seek indemnification from the Subdivider or to exercise any other rights within this Agreement. Costs may include, but not be limited to, adjusting fees, settlement awards, reasonable legal fees, administrative costs, etc.

The Township may, without breaching this Agreement and at the expense of the Subdivider, draw on the Letter of Credit an amount that, as between the Township and the Subdivider, is equal to the balance in the Township's favour of all outstanding debts, claims or damages, whether or not related to this Agreement.

4.4 Local Improvement and Taxes

The Subdivider agrees to pay all local improvements outstanding on any part of the Lands and pay all taxes on the Lands prior to the Performance Acceptance and before the Township's Letter of Release is given.

4.5 Letter of Credit

4.5.1 Servicing

The Subdivider agrees:

To deliver an irrevocable letter of credit (the "LoC") issued by a Canadian chartered bank in a form and amount satisfactory to the Township and in the amount as provided for in Schedule "E" prior to the approval of the engineering and Works in respect of the Ottawa Street Extension to guarantee the completion of the Works and related services to be installed pursuant to this Agreement. The LoC may be reduced from time to time at the request of the Subdivider and with the approval of the Township's Director of Development Services (or their designate) in proportion to the Works already installed or constructed.

Notwithstanding the foregoing, the LoC shall not be reduced to an amount less than:

- a) In the case where any underground services for the Ottawa Street Extension are on the mandatory two-year maintenance period pursuant to Clause 4.5.3:
  - i) Fifteen (15%) per cent of the total value of completed Works that have not received Final Acceptance from the Township, pursuant to Section 8, on any developed portion of each phase (including engineering fees, contingencies, and applicable taxes) plus one hundred (100%) per cent of the value of any outstanding works or services to be completed with respect to any portion of each phase under development (including engineering fees, contingencies, and applicable taxes); or
  - ii) Two Hundred Thousand (\$200,000.00) Dollars,

whichever is greater; and

- b) In the case where underground services have survived the mandatory two-year maintenance period and have received Final Acceptance from the Township, pursuant to Section 8:
  - i) Fifteen (15%) per cent of the total value of the completed above ground Works on the mandatory two-year maintenance period (including engineering fees, contingencies and applicable taxes) plus one hundred (100%) per cent of the value of any outstanding work or services to be completed with respect to the same (including engineering fees, contingencies, and applicable taxes); or
  - ii) Twenty-Five Thousand (\$25,000.00) Dollars,

whichever is greater.
- c) In addition to the above, that the LoC shall also include fifteen (15%) per cent of any Works to be completed and front-ended by the Subdivider that the Township is financially responsible for pursuant to Schedule "H" until such time as the Works have been completed in accordance with the Engineering and Planning Drawings and to the satisfaction of the Township, and the Subdivider has provided a statutory declaration indicating that all accounts, including all amounts for materials, services, applicable taxes, professional and other fees and all other costs as set out in Schedule "H" pertaining to the Works have been paid except for statutory holdbacks, and there are no claims for liens or otherwise for work done and material supplied for or on behalf of the Subdivider.

Once the mandatory two-year maintenance period is completed for any services in the Ottawa Street Extension and all remedial works are completed to the satisfaction of the Township, the LoC shall be reduced for such services accepted by Township Council in the Plan, to an amount equal to one hundred (100%) per cent of the value of any outstanding works or services required to be installed or completed in accordance with this Agreement with respect to such services.

In the event there remains any outstanding works or services to be completed under this Agreement after the two-year mandatory maintenance period has expired, the Subdivider shall be entitled to substitute cash for the LoC as the outstanding works and/or services for the Ottawa Street Extension are completed.

Where the Works have been completed and accepted by the Township for the Ottawa Street Extension and there still remains vacant lots in the Plan, the Subdivider's Engineer may submit to the Director of Development Services (or their designate) cost estimates to complete all remaining works on the vacant lots in the Plan, and the Director of Development Services (or their designate) shall reduce the LoC or cash held in lieu accordingly.

4.5.2 That LoC referred to in Clause 4.5.1 above shall contain the following clause: "It is a condition of this Letter of Credit that it shall be deemed to be automatically extended without amendment from year to year from the present or any future expiration date thereof unless, at least thirty (30) days prior to the present or any future expiration date, the Township notifies the Subdivider and the Chartered Bank in writing by registered mail that the Township elects to amend the Letter of Credit".

4.5.3 That the Subdivider shall maintain the public works as constructed in accordance with Schedule "J" for a period of two (2) years following the issuance by the Township of a Performance Acceptance Certificate as described in Subsection 8.1 of this Agreement, and the Subdivider shall maintain the Letter of Credit provided for in Clause 4.5.1.

## 5.0 GENERAL CONSTRUCTION REQUIREMENTS

The Subdivider agrees:

- 5.1 That, during the development of Ottawa Street, all construction traffic shall enter the site from either Menno Street or Fountain Street North, for ingress to and egress from the Lands, and not by way of any other local roads. Access for the remainder of the development shall be from Fountain Street and the allocated emergency accesses. The Subdivider shall post signs at the appropriate roads and intersections, as determined by the Township, advising the construction traffic of the approved route and to prohibit the use of other access routes, prior to the start of any construction, grading or servicing activity on the Lands, all to the satisfaction of the Township. That the construction route for Phase 1 of the Draft Plan will be determined prior to work commencing for the respective phase.

- 5.2 That, during the development of the Plan, the Lands shall be kept reasonably free of all debris, refuse, rubble and waste material. Such material shall not be stockpiled or stored on the Lands for any longer than is reasonably necessary to effect its removal and, only then, in a safe and sightly manner and in areas approved by the Director of Development Services.
- 5.3 To store topsoil from the Lands in a location shown on the engineering drawings identified in Schedule "J", which does not unduly impact on other surrounding land uses and to the satisfaction of the Director of Development Services (or their designate). A sediment control fence shall be installed around the base of the pile and the entire topsoil pile shall be hydroseeded to prevent erosion, if required by the Township.
- 5.4 To co-ordinate the installation of the utilities for the subdivision so that the utilities and utility ducts shall be installed at the time of construction of the road base and prior to curbing and paving of the road. It is acknowledged that the Township may, at the discretion of the Director of Development Services (or their designate), request all works to stop if the coordination of these works and the installation of utilities and the construction of the road are not to the satisfaction of the Director of Development Services (or their designate).
- 5.5 That all streets abutting on the Extension Lands which are to be used for access to the Lands during the development of them and during the construction of buildings on them shall be kept in good and usable condition. If damage to the abutting streets occurs as result of development activity and not normal wear and tear from vehicular traffic, as determined by the Township, then the Subdivider is financially responsible and shall immediately repair the damage, all to the satisfaction of the Township.
- 5.6 That all trucks, vehicles or equipment making deliveries to or taking materials from the Extension Lands or working on the Lands shall be both covered and loaded in such a manner as to not scatter refuse, rubbish or debris on any road or highway whether within the Extension Lands or not. Should any refuse, rubbish or debris be so scattered, the Subdivider shall be responsible for immediately removing it and correcting any damage caused thereby. Failing immediate removal of the refuse, rubbish or debris, the Township may remove it and the Township may correct any damage caused thereby, such removal and/or correction to be at the expense of the Subdivider.
- 5.7 That no blasting shall be carried on without the prior written consent of the Township's Director of Development Services (or their designate).
- 5.8 That no building, fence, or other structure or materials shall be erected or placed closer than three (3) metres from any fire hydrant, connection, valve or standpipe unless approval, in writing, by the Fire Chief is first obtained.
- 5.9 That proper access for Fire Department equipment to all building sites shall be maintained at all times, to the satisfaction of the Fire Chief.
- 5.10 That all road closures and redirecting of traffic be approved and implemented by the Township. The Subdivider shall coordinate with the Township to ensure notification of all emergency services, schools, etc., of the said closures and redirection.
- 5.11 To maintain all work areas during the installation of the Works within the Ottawa Street Extension in a dust-free condition by treating with calcium chloride or other environmentally safe substance(s), all to the satisfaction of the Township.
- 5.12 To install sediment control measures and construction fencing to the specification/location noted on the Engineering and Planning Drawings prior to commencing the Works within the Ottawa Street Extension, and to monitor daily, maintain and repair immediately, the said sediment control measures and construction fencing that is deficient and/or in disrepair throughout the entire period of the said Works, all to the satisfaction of the Township. The Subdivider further agrees to provide the Township with a Ten Thousand (\$10,000) Dollar cash deposit as security (the "Cash Deposit") prior to the commencement of construction of the Works (which may be transferred to any phase to phase of the Draft Plan at the discretion of the Township) to ensure that the Subdivider has installed and maintained the sediment control measures and construction fencing in accordance with Engineering and Planning Drawings and in an acceptable state on regular bases throughout the development of the Ottawa Street Extension as required by the Township. If the Subdivider fails to construct and/or maintain such fencing as required by the Township, the Township will provide the Subdivider with twenty-four (24) hours' notice that it intends to access the Lands and install and/or maintain the required fencing that is deficient and/or in disrepair, and the Subdivider authorizes the Township to access the Lands to construct and/or maintain such fencing that is deficient and/or in disrepair and deduct accordingly the said fencing expense from the Cash Deposit provided by the Subdivider. If the Township is required to install and/or maintain the said fencing more than once and the Cash Deposit is reduced by half or less, then the Subdivider agrees to replenish the Cash Deposit back to Ten Thousand (\$10,000) Dollars within one (1) week, upon request of the Township. The Subdivider acknowledges that the Township may refuse future building permits within the Draft Plan if the Subdivider fails to replenish the cash deposit to Ten Thousand (\$10,000) Dollars upon request of the Township.



5.13 In addition to the general construction requirements noted in Subsections 5.1 to 5.12, the Subdivider agrees to implement all measures that may from time to time be identified by the Director of Development Services (or their designate), acting reasonably, as necessary to maintain public health and safety and, without limiting the generality of the foregoing, such measures shall include the following:

- a) To implement measures that would restrict public access to all large stockpiles (e.g., topsoil) within the Lands and to ensure that these stockpiles are kept in a state that reduces any risk to public health and safety, which is further detailed in the Engineering and Planning Drawings and in Section 11 of this Agreement; and
- b) To ensure that all significant ponding, as determined by the Director of Development Services (or their designate), acting reasonably, within the Plan that are not part of an approved stormwater management feature and/or sediment control basin and poses an undue risk to public health and safety shall be sufficiently drained in a timely manner to reduce the public health and safety risk or shall immediately be surrounded with construction fencing until such time that the Subdivider has drained such ponding. If the Subdivider fails to drain the ponding in a timely manner and/or construct the required fencing forthwith, then the Township shall use the Cash Deposit noted in Subsection 5.12 of this Agreement to install the required fencing, and such fencing shall be maintained in an acceptable state, as determined by the Township, until the ponding no longer poses an undue risk to public health and safety.

## 6.0 GENERAL ENGINEERING

### 6.1 Consulting Engineer

The Subdivider agrees:

6.1.1 To employ, at its expense, MTE Consultants (the "Subdivider's Engineer" or "Engineer"), to carry out all necessary engineering requirements for the Works in accordance with this Agreement and the Guideline for Engineering Services to Municipalities, dated 1998, or the latest edition as prepared from time to time by the Association of Professional Engineers of Ontario:

- a) To coordinate any necessary reports including the preparation and submission of associated engineering reports.
- b) To prepare and supply all required engineering drawings and specifications and estimates of costs for the Works, to the satisfaction of the Director of Development Services (or their designate).
- c) To obtain all necessary approvals for the Works prior to the construction of the Public Services.
- d) To submit to the Township a schedule setting out the proposed order of construction and installation of the Works along with estimated dates of completion.
- e) To hold a pre-construction meeting with the Township and applicable agencies to discuss scheduling, and to confirm that all approvals/permits and required documentation (e.g., insurances, Letters of Credit, Clearance Certificate from the Workplace Safety and Insurance Board ("WSIB"), etc.) are in place prior to construction occurring in the applicable phase.
- f) To provide the field layout (unless delegated to the Contractor as approved by the Township), contract administration and inspection of the construction for the Works.
- g) To provide legible, stamped red-lined field drawings of the Works installed in the development prior to the issuance of the Performance Acceptance Certificate detailed in Subsection 8.1, and to provide final engineer stamped "as-recorded" reproducible drawings (including three (3) paper copies and an electronic version in Auto Cad, version 2010 in DWG Format, of the "as-recorded" Engineering and Planning Drawings as specified by the Township) to the Infrastructure Services Department within six (6) months of the issuance of the Performance Acceptance Certificate.
- h) To provide utility locates on behalf of the Township for the applicable phase during the time prior to the Township receiving the final "as-recorded" Engineering and Planning Drawings noted in Schedule "J".
- i) To provide a master utility locate plan for hydro (including streetlights), phone, cable and gas utilities no later than two (2) months after the registration of the applicable phase or two (2) months after installation of the final utilities. If the "as-recorded" drawings are not provided in accordance with the said deadline noted in Subclause 6.1.1 g) above, then the Subdivider is responsible for providing locates to the utility companies until such time that the "as-recorded drawings" are provided to and accepted by the Township.
- j) To certify and recommend the acceptability of the works within the context of this Agreement.
- k) To coordinate the watermain shutdown and adjacent project works to ensure safe and accurate execution of the Engineering and Planning Drawings.

6.1.2 That the Subdivider's Engineer, or their approved replacement, shall continue to be retained until Final Acceptance. Should the Subdivider wish to terminate the services of the Engineer in favour of another at any time during the term of this Agreement, the Subdivider shall do so only with the prior written approval of the Director of Development Services, which shall not be unreasonably held.

6.1.3 That the Subdivider's Engineer shall provide full-time, on-site engineering supervision / inspection at all times, during the installation of the Works within the Ottawa Street Extension or supervision as otherwise directed by the Township's Development Services Department.

6.2 Inspection

6.2.1 It is agreed that the Director of Development Services (or their designate) shall have the right to inspect the installation, construction and maintenance of the Works at all times.

6.2.2 It is agreed that the Township may appoint Consulting Engineers to exercise any or all of the powers of and perform any or all of the functions of the Township under this Agreement and, without restricting the generality of the foregoing, to inspect the installation and observe the testing of the municipal services referred to in this Agreement, and that the cost for such Consulting Engineers will be deemed included in the Engineering Fees paid to the Township in accordance with Clause 4.1.2.

6.3 Contractors

Prior to commencement of any works and services, the Subdivider shall furnish to the Township:

- a) Proof satisfactory that the contractors engaged to construct the Works have sufficient and valid liability insurance policies, which:
  - i) includes, as additional insured, the Township and the Region;
  - ii) provides insurance coverage in respect of any one accident or occurrence in the amount of at least Five Million (\$5,000,000.00) Dollars, exclusive of interest and costs;
  - iii) is effective during the period when the Contractor is occupying the Extension Lands;
  - iv) contains a clause indicating that the insurance coverage applies to both hazard from damage to new works and works already performed;
  - v) contains no exclusions for damage or loss from blasting or from any other work that may be associated with the installation of the Works within the Ottawa Street Extension; and
  - vi) contains a provision that the policy or policies will not be changed or cancelled without at least thirty (30) days' prior written notice being given to the Township.
- b) A Clearance Certificate from the WSIB showing that each contractor is in good standing.
- c) Evidence, satisfactory to the Director of Development Services, that each Contractor is qualified, experienced, has equipment to successfully complete the Works and has adequate security to guarantee performance and maintenance to the Subdivider in accordance with the provisions of this Agreement.

6.4 Grading and Drainage

6.4.1 The Subdivider shall complete the primary drainage system including all grading, ditches, swales, watercourses, ponds, drains, overland flow routes, pipes, sewers, manholes, catch basins, service connections, apparatus and equipment to service all the Lands within the Plan and adjacent thereto as required by and according to the drawings, plans, reports and specifications approved by the Director of Development Services (or their designate). The Subdivider shall maintain the primary drainage system, including clearing any blockage, until it is finally accepted by the Township as required in Clause 4.5.3, Subsection 8.1 and Subsection 8.2 of this Agreement. The Township may connect or authorize connections into the said drainage system, which connection shall be agreed to by the Subdivider's Engineer retained for this subdivision and the Director of Development Services (or their designate), but such connections shall not constitute Acceptance of the drainage system by the Township.

6.4.2 The Subdivider shall complete the primary drainage system within the Extension Lands, including such grading on the undeveloped lots and blocks that is necessary to connect into the overall drainage system of the Draft Plan, in accordance with the approved overall grading plan, prior to any building permits being issued within the Phase 1 Draft Plan.

6.5 Sewer Video Inspection Program:

- (a) The Subdivider shall undertake and pay for a sewer video inspection program for all sewers (stormwater, storm 3<sup>rd</sup> pipe and sanitary sewer) and sanitary (stormwater and 3<sup>rd</sup> pipe) laterals constructed as part of the Works. These inspections shall be undertaken by a qualified company to be accepted by the Director of Development Services prior to the work being undertaken.
- (b) The Subdivider shall provide the Township with a digital copy (preferably USB stick) and written reports of the sewer video inspection in a format as specified by the Director of Development Services.
- (c) The sewer video inspection shall be carried out as follows and at such other time or times as may be required by the Director of Development Services from time to time:
  - (i) after completion of base course asphalt;
  - (ii) prior to Performance Acceptance and/or Final Acceptance;
  - (iii) prior to Assumption (if applicable); and
  - (iv) the Subdivider's Engineer provides copies of inspection reports, testing/monitoring results and sewer videos (including sewer laterals) to the Township.
- (d) The Subdivider shall remove all silt and debris from the sewers prior to video inspection taking place and rectify any sewer lateral deficiencies that may be outlined in the written report or as required by the consultant / Township's inspection of the videos, reports and site inspections. These rectifications shall be completed prior to Acceptance and, if required, prior to Assumption (if applicable).

6.6 Watermain Valves and Connections:

The Subdivider covenants and agrees that no person, except the Director of Infrastructure Services or their designate, shall open or close any valve, hydrant or gate in any street main connected into and served by the Township and Regional systems of water supply, or alter or interfere with same in any manner.

6.7 Fire Hydrants:

- (a) The Subdivider agrees that it shall charge and maintain all fire hydrants, if any, until Acceptance.
- (b) The Subdivider agrees that it shall paint the hydrants as soon as they are installed and not later than Acceptance, using accepted types and colors of primer and top paint coat.

6.8 Soils Engineer/Qualified Person

The Subdivider agrees to employ, at its expense, a Soils Engineer or qualified person to perform regular soils analysis, testing and inspection during the installation of the Works within the Ottawa Street Extension in accordance with the applicable approval legislation, the Township's Engineering Development Infrastructure Manual (the "EDIM"), all to the satisfaction of the Township.

6.9 Peer Review

It is agreed that the Township may retain a consultant, at the expense of the Subdivider, to peer review any reports completed by the Subdivider (including, but not limited to, those in respect of traffic impacts and hydrogeology) for monitoring in accordance with the Environmental Compliance Approval, as required by the GRCA and noted in Subsection 9.7, for such facilities/services including, but not limited to, stormwater management facilities, sanitary sewers and/or a 3<sup>rd</sup> pipe system, Traffic Impact Studies, Hydrogeological during their installation and up to Final Acceptance pursuant to Subsection 8.2.

The Subdivider shall pay these peer review costs in accordance with the terms and provisions of the invoice that the Subdivider receives from the Township. The Subdivider acknowledges that the Township may refuse future building permits within any Phase of the Draft Plan and/or delay the Final Acceptance of the Ottawa Street Extension and/or services/infrastructure being monitored within the Ottawa Street Extension pursuant to Section 8 and/or recover such costs from the Letter of Credit held pursuant to Subsection 4.5 if the Subdivider fails to make the said payment in accordance with the terms and provisions of the invoices that it receives from the Township.

7.0 **PUBLIC WORKS**

The Subdivider agrees:

7.1 Street Names/Municipal Addresses

That the Director of Development Services (or their designate) shall approve the street names and municipal addresses scheme for all lots within the Draft Plan and/or Ottawa Street Extension.

## 7.2 Signs

The Subdivider shall:

- a) Install street signs, traffic control signs, line painting, dead-end barricades (if required) in the location shown on the Engineering and Planning Drawings in accordance with the *Highway Traffic Act*, R.S.O. 1990, c. H.8, as amended, prior to Final Acceptance of the Ottawa Street Extension. The street/traffic signs/barricades shall be maintained by the Subdivider until the two-year maintenance period, as outlined in Clause 4.5.3, is completed.
- b) Notify, in writing, the Region two (2) weeks prior to the opening of Regional Roads or Regional Road intersections, in the Plan as public roads, as required.
- c) Install advisory signs for all public roads that have not been issued Final Acceptance pursuant to Section 8 in the location shown on the Engineering and Planning Drawings prior to Final Acceptance of the Ottawa Street Extension.

## 7.3 Streetlighting

- a) If the Subdivider installs a standard streetlighting system (comprised of approved LED lighting that provides illumination levels in accordance with RP8-2018 standards, as amended) as part of the Ottawa Street Extension, then the Subdivider shall construct and install the standard streetlighting system to the specifications and satisfaction of the Township and Enova Power or, alternatively, make satisfactory provisions with Enova for the installation of the standard streetlighting system within the Ottawa Street Extension. The maintenance costs related to the standard streetlighting system shall be the responsibility of the Subdivider until such time as the Township has given Final Acceptance, pursuant to Section 9, for the Works within the road allowance of the Ottawa Street Extension.
- b) If the Subdivider installs a decorative streetlighting system (comprised of approved LED lighting that provides illumination levels in accordance with RP8-2018 standards, as amended) within the Ottawa Street Extension, then the following provisions shall apply:
  - i) The decorative streetlighting system shall be installed within the entire Ottawa Street Extension unless otherwise determined by the Township and in such locations within the road allowances that are accepted by the Township's Director of Development Services (or their designate), as shown, and detailed in the Engineering and Planning Drawings. If the Township determines that decorative lighting is not to proceed within future phases of the Draft Plan, then the Subdivider agrees to extend the decorative streetlighting into certain areas of the future phases and in such a manner as to complete the decorative lighting pattern on the applicable streets rather than having the said street contain a mixture of both decorative streetlighting and standard streetlighting.
  - ii) The Subdivider shall be financially responsible for all costs associated with the design and installation of the decorative streetlighting system within the Ottawa Street Extension.
  - iii) The decorative streetlighting system shall be designed by a qualified electrical consulting engineer to the standards and satisfaction of the Township and included in the Engineering and Planning Drawings.
  - iv) The Subdivider shall provide appropriate securities to the satisfaction of the Township for the decorative streetlighting on a phase-by-phase basis within the Ottawa Street Extension, pursuant to Subsections 4.5 and 11.1 and detailed in Schedule "H" of this Agreement.
  - v) The Subdivider shall provide an operation/maintenance manual to the Township for the decorative streetlighting system within six (6) months of the system being energized.
  - vi) The completion, maintenance, and Final Acceptance of decorative streetlighting within the Ottawa Street Extension shall form part of the surface works pursuant to Clause 4.5.3, and Subsection 8.2 of this Agreement.
  - vii) The Subdivider shall provide the Township with one (1) additional complete decorative streetlight standard (including the decorative pole, arm, and fixture) for every ten (10) decorative streetlights to be installed within the Ottawa Street Extension, and one (1) power supply pedestal including the concrete base for every three (3) pedestals to be installed within the Ottawa Street Extension. In no case shall fewer than two (2) complete decorative streetlight standards and no less than one (1) power supply pedestal, including a concrete base, be provided to the Township. The Subdivider shall deliver (including unloading and placement under the direction of the Township or its

agent) the additional decorative streetlight standards, power supply pedestals, and concrete bases to a location determined by the Township at its discretion. In lieu of providing the additional supply of the decorative streetlight standard and power supply pedestal, the Township may, at its discretion, require the Subdivider to make an equivalent cash payment prior Final Acceptance of the Ottawa Street Extension. For the purpose of calculating compliance with this requirement, any fraction shall be rounded to the next highest whole number. The foregoing shall be to the satisfaction of the Township.

- viii) Notwithstanding Subclause 7.3 b) vii) above, where directed by the Township at its sole discretion, the Subdivider shall provide a cash payment in lieu of providing the physical decorative streetlight standard(s) and power supply pedestal(s), including the concrete bases, to the satisfaction of the Township. The payment shall be based on the cash equivalent based on one hundred (100%) per cent of the cost for the complete decorative streetlight standard (including the decorative pole, arm, and fixture), power supply pedestal, and concrete base required in Subclause 7.3 b) vii) above.
  - ix) The Subdivider agrees that, where decorative streetlight bulbs are not standard high-pressure sodium 70W, 100W or 150W bulbs, the Subdivider shall provide a cash payment to the Township in lieu of providing decorative streetlight bulbs equal to one (1) bulb for every three (3) decorative streetlights to be installed, to the satisfaction of the Township. The payment shall be based on the cash equivalent based on one hundred (100%) per cent of the amount for the decorative streetlight bulb. For the purpose of calculating compliance with this requirement, any fraction shall be rounded to the next highest whole number. The foregoing shall be to the satisfaction of the Township.
- c) That, upon installation of the approved streetlighting system, *i.e.*, standard pursuant to Clause 7.3 a), or decorative pursuant to Clause 7.3. b), and up to the time the Township has given Final Acceptance of such streetlighting system as part of the surface works for the Ottawa Street Extension pursuant to Section 8.2, the Subdivider shall be responsible for and incur all costs associated with the inspection of the streetlighting system, complete the necessary inspection reports and forward such reports to the Township, which shall occur in intervals of not more than sixteen (16) months between inspections, in accordance with the Minimum Maintenance Standard set out in O. Reg. 239/02, made under the *Municipal Act, 2001*, S.O. 2001, c. 25, as amended (the "*Municipal Act*"). If any deficiency is identified through the inspection report, the Subdivider shall notify the Township, as well as Enova Power for a standard streetlighting system, and complete the required remedial works to address the deficiency of the streetlighting system in a timely manner at the Subdivider's cost pursuant to Section 8, all to satisfaction of the Township, and, where applicable, Enova Power.

#### 7.4 Snow Removal

The Township will carry out snow removal on the Ottawa Street Extension after Final Acceptance and where all appropriate street/traffic signs have been installed and where all debris has been removed from the road allowance. The Subdivider shall ensure that the Ottawa Street Extension shall be kept free and clear of any encumbrances, which are related to the development of the Works and/or development of the lots/block within the Ottawa Street Extension, for snow clearing purposes, including the parking of construction vehicles and equipment during snow events/winter parking in accordance with the Township's Traffic and Parking By-law in effect. Where the streets within the Ottawa Street Extension that are not completed with base course asphalt to the satisfaction of the Township's Director of Development Services (or their designate), the Subdivider is responsible for the snow removal on that street and not the Township.

It is further agreed that, during the maintenance period noted in Section 8 for all roads which have not received Final Acceptance within the Ottawa Street Extension, the Subdivider shall be financially responsible for covering all snow removal costs that the Township has incurred and/or has been invoiced for by a contractor that it has retained. The Subdivider shall pay these maintenance costs based on the current rate set out in the Township's Fees and Charges By-law and in accordance with the terms and provisions of the invoice that the Subdivider receives from the Township. The Subdivider acknowledges that the Township may refuse future building permits within any Phase of the Draft Plan and/or delay the Final Acceptance of the roads within the Ottawa Street Extension pursuant to Section 9 if the Subdivider fails to make the said payment in accordance with the terms and provisions of the invoices that it receives from the Township.

#### 7.5 Street Cleaning/Street Scraping

In addition to Subsections 5.5 and 5.6, the Subdivider shall ensure that all streets constructed as part of the Ottawa Street Extension which are used for travel by trucks, vehicles and equipment in connection with the development of the Draft Plan (including such trucks, vehicles and equipment to install the roads and services and/or the construction of homes in the Draft Plan) shall be kept reasonably clean of refuse, rubbish or debris by street sweeping/street scraping the said streets regularly as required by the Township until all of the homes are built within the Draft

Plan. The Subdivider further agrees to provide the Township with a Five Thousand (\$5,000) Dollar cash deposit for each phase of the Draft Plan as security to ensure that the Subdivider is street sweeping/street scraping the said streets on regular bases as required by the Township. If the Subdivider fails to clean the said streets in accordance with the timing required by the Township, the Township will provide the Subdivider twenty-four (24) hours' notice that it intends to clean the said streets within the Ottawa Street Extension and the Subdivider authorizes the Township to deduct the said street cleaning expense from the Five Thousand (\$5,000) Dollar security deposit provided by the Subdivider. If the Township is required to clean the streets more than once and the Five Thousand (\$5,000) Dollar security deposit is reduced by half, then the Subdivider agrees to "top up" the security deposit to Five Thousand (\$5,000) Dollars within one (1) week upon request of the Township. The Subdivider acknowledges that the Township may refuse future building permits within the Draft Plan if the Subdivider fails to "top-up" the security deposit to Five Thousand (\$5,000) Dollars upon request of the Township. The said cash deposit will be released to the Subdivider upon Assumption of the surface works in the last Phase of the Draft Plan pursuant to Section 8.

## 8.0 **PERFORMANCE ACCEPTANCE (COMPLETION), MAINTENANCE & FINAL ACCEPTANCE**

### 8.1 Performance Acceptance Certificate and Maintenance Period

- a) Upon request by the Subdivider confirming that the Works are completed to the extent that Performance Acceptance (as hereinafter defined) can be granted, the Township shall, expeditiously, inspect all completed Works and related services. Following inspection and upon the items noted in Subclauses i) to vi) below being satisfied, the Township shall grant to the Subdivider an Acceptance Certificate or Certificates for the Works, (and with the issuance thereof with respect to the Works subject to the Subdivider's request referred to herein as "Performance Acceptance") noted in Subsection 8.2, if:
- i) the Subdivider's Engineer provides a notice in writing certifying that all Works have been completed in accordance with the Engineering and Planning Drawings as well as all approvals, including the completion of any remedial work required by the Township;
  - ii) the Subdivider provides payment of all Township accounts pertaining to the Ottawa Street Extension development and utilities;
  - iii) the Subdivider delivers to the Township a statutory declaration that all accounts, including all amounts for materials, services, applicable taxes, professional and other fees and all other costs as set out in Schedule "H" pertaining to such Works (save and except for final lot grading by the Lot Owner, driveway aprons/entrances, and standard iron bars for each lot, if applicable) have been paid, except for statutory holdbacks, and there are no claims for liens or otherwise for work done and material supplied for or on behalf of the Subdivider with respect to the Ottawa Street Extension; and
  - iv) the Subdivider's Engineer provides copies of inspection reports, testing/monitoring, results/draw down test and sewer videos (including sewer laterals, if any) to the Township.
- b) The Township shall grant to the Subdivider a Performance Acceptance Certificate or Certificates for the corresponding Works as follows:
- i) underground services and granular;
  - ii) surface work, which includes curb, gutter, base coat asphalt and top-coat asphalt of the street, sidewalks, driveway aprons, street boulevard sod and trees, and streetlighting system (standard or decorative), including the decorative pole, arm, fixture and appurtenances, the power supply pedestal and concrete base;
  - iii) park, trail development, other landscaping not within the boulevard and associated demarcation measures;
  - iv) stormwater management facilities, which includes the storm outlet, maintenance access road, required watercourse works, associated demarcation measures and landscape/plantings.
- c) The Certificates for Performance Acceptance for the:
- i) underground services and granular shall be issued for the Ottawa Street Extension;
  - ii) surface works shall be issued for the Ottawa Street Extension;
  - iii) park and trail development, as well as open space works (*i.e.*, cleanup, removal of invasive species and dead/hazard trees, etc.), including associated demarcation measures, shall be issued for the Ottawa Street Extension;
  - v) stormwater management facilities shall be issued in conjunction with the Performance Acceptance Certificate issued for the surface works of the last phase of the contributing stormwater drainage area.

### Maintenance Period

- d) The two-year maintenance period prescribed in Clause 4.5.3 hereof shall commence to run from the date the Performance Acceptance Certificate with respect to the Works named therein has been issued and when the Plan, containing the respective Works, is registered.

## 8.2 Partial Certificate of Release and Final Acceptance

Upon request by the Subdivider, the Township shall issue a Partial Certificate of Release ("Final Acceptance") with respect to any Performance Acceptance Certificate noted in Subclause 8.1.b) when the following are satisfied:

- a) The two-year maintenance period with respect to the same has expired;
- b) The Subdivider's Consulting Engineer has provided all inspection reports and GIS data completed after installation of such Public Works including inspection reports required in the applicable sections of this Agreement to meet the Minimum Maintenance Standard pursuant to Ontario Regulation 239/02;
- c) The Subdivider's Engineer has provided a notice in writing certifying that all remedial works required by the Township during the maintenance period with respect to the Works described in the Performance Acceptance Certificate have been completed;
- d) The Township has received the statutory declaration described in Subsection 8.1; and
- e) Payment of all Township accounts respecting the phase to which the Partial Certificate of Release applies has been made.

Once the Township has issued a Partial Acceptance for the respective Works noted in Subclause 8.1 b) and the Township has given Final Acceptance to such Works that were issued a Partial Certificate of Release, then the Subdivider no longer has maintenance and financial obligations for those Works under the terms of this Agreement.

## 8.3 Maintenance of Boulevard Trees

Further to Subsection 8.1 with respect to the installation of boulevard trees as part of the surface works within Ottawa Street, during the two-year maintenance period for such surface works the Subdivider shall be responsible for:

- a) Any deficiencies identified with the planting of the boulevard trees that are in conflict with the Engineering and Planning Drawings;
- b) Replacement of dying, dead, damaged and/or hazard boulevard trees; and
- c) Minor and routine maintenance works which includes regular watering, mulching, re-staking and pruning the boulevard trees.

Notwithstanding Subclause 8.3 c) above, if the Township, at its discretion, retains an arborist to perform such minor and routine maintenance works of the boulevard trees during the two-year maintenance period, then the Subdivider shall be financially responsible for covering the costs that the Township has incurred and/or have been invoiced for by an arborist that it has retained during the maintenance period, noted in Section 8, for boulevard trees within Ottawa Street. The Subdivider shall make payment for these minor and routine maintenance costs based on the current rate set out in the Township's Fees and Charges By-law and in accordance with the terms and provisions of the invoice that the Subdivider receives from the Township. The Subdivider acknowledges that the Township may refuse future building permits within the Draft Plan and/or delay the Final Acceptance of the surface works within the Plan pursuant to Section 8 if the Subdivider fails to make the said payment in accordance with the terms and provisions of the invoices that it receives from the Township.

## 8.4 Inspection of Street Regulatory and Warning Signs

That upon installation of the approved street regulatory and warning signs noted in Section 8.2 and up to the time the Township has given Final Acceptance of such street regulatory and warning signs as part of the surface works for Ottawa Street, the Subdivider shall be responsible for and incur all cost associated with the inspection of the street regulatory and warning signs, complete the necessary inspection reports and forward such reports to the Township, which shall occur in intervals of not more than sixteen (16) months between inspections, in accordance with the Minimum Maintenance Standard in Ontario Regulation 239/02. If any deficiency is identified through the inspection, the Subdivider shall notify the Township, and complete the required remedial works to address the deficiency of the street regulatory and warning signs in a timely manner at the Subdivider's cost pursuant to Section 8, all to satisfaction of the Township.

## 8.5 Inspection of Sidewalks

That upon installation of the sidewalks and up to the time the Township has given Final Acceptance of such sidewalks as part of the surface works for Ottawa Street, the Subdivider shall be responsible for and incur all cost associated with the maintenance and inspection of the sidewalks, complete the necessary inspection reports and forward such reports to the Township,

which shall occur in intervals of not more than sixteen (16) months between inspections, in accordance with the Minimum Maintenance Standard in Ontario Regulation 239/02. If any deficiency is identified through the inspection, the Subdivider shall notify the Township and complete the required remedial works to address the deficiency of the sidewalks in a timely manner at the Subdivider's cost pursuant to Section 8, all to satisfaction of the Township.

8.6 Ontario Land Surveyor's Certificate

Any standard iron bars, concrete monuments or monuments of higher standard which are disturbed in the course of servicing or building shall be restored by or at the expense of the Subdivider before this Agreement is finally released. Upon final completion and installation of all Works, the Subdivider shall, at its expense, provide an Ontario Land Surveyor's Certificate indicating that all standard iron bars are in place and easily accessible with respect to the lot for which a release is being requested.

9.0 **OTHER AGENCIES AND APPROVALS**

The Subdivider agrees:

9.1 General

9.1.1 To obtain the approval of any governmental authority which is required in respect of the installation of any Works that are contemplated by this Agreement.

9.1.2 To acknowledge and agree that any Township approvals, including (without restricting the generality of the foregoing) zoning, subdivision and Plot Plan approvals, do not verify or confirm the adequacy of soil conditions, and the Subdivider accepts responsibility for soil conditions, including soil contamination, and agrees to comply with the applicable provisions of the *Environmental Protection Act*, R.S.O. 1990, c. E.19, as amended (the "EPA"), and other relevant legislation, and the Subdivider agrees to indemnify and save the Township harmless from all actions or claims relating to soil conditions on the Lands.

9.2 Hydro Service

That all electrical services to the subdivision shall be underground, except for transformers, mounting pads, etc., in accordance with the standards of the Township contained in the EDIM, and those of Enova Inc., and the Subdivider shall provide to Enova Inc. any required easements in priority to any mortgages or other encumbrances.

9.3 Gas Service

To service all lots in the subdivision with gas service by underground pipes to be placed in the road allowance in accordance with the standards of the Township contained in the EDIM, and those of Enbridge Gas Company, and the Subdivider shall provide to Enbridge Gas Company any required easements in priority to any mortgages or other encumbrances.

9.4 Telecommunication Service

To provide the appropriate number of underground conduits within the road allowance in accordance with Township standards contained in the EDIM for the purpose of providing the Draft Plan with telecommunication service(s).

9.5 Canada Post

To co-ordinate with the Township and Canada Post the location of community mailbox facilities.

9.6 Ministry of Environment, Conservation and Parks ("MECP")

To obtain an Environmental Compliance Approval from the MECP and/or the applicable municipal authority for the installation of services (*i.e.*, water, sanitary and storm, including stormwater management) in accordance with the applicable provisions of the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended, and the *EPA* prior to the installation of such services or facilities.

9.7 Grand River Conservation Authority

To obtain a Development, Interference with Wetlands and Alterations to Shorelines and Watercourses permit within areas regulated under O. Reg. 150/06 (Grand River Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses), made under the *Conservation Authorities Act*, R.S.O. 1990, c. C.27, as amended, prior to the commencing of the Works, including grading activities.

9.8 Other Federal or Provincial Approvals



To obtain any other applicable Federal or Provincial Approvals prior to the commencement of the associated Works and grading activities and to comply with such Federal and Provincial regulations and/or protocols of the Department of Fisheries and Oceans, Species at Risk, and the *Migratory Birds Convention Act, 1994*, S.C. 1994, c. 22, as amended, etc.

9.9 Building Permit

Any Public Works, such as retaining walls, that fall under the jurisdiction of the *Building Code Act, 1992*, S.O. 1992, c.23, as amended, shall require a building permit issued by the Township prior to their installation or construction.

9.10 Heritage

The Subdivider shall immediately notify the Ministry of Tourism, Culture and Sport and the Registrar appointed under the *Funeral, Burial and Cremation Services Act, 2002*, S.O. 2002, c.33, as amended, if human remains are found during construction activities.

**10.0 LEGAL**

The Subdivider agrees:

10.1 Conveyances

10.1.1 To transfer title to the Township of all municipal services installed according to the terms of this Agreement and as described in Clause 3.1.2 and the terms and conditions in the Land Exchange Agreement.

10.1.2 That, prior to Final Acceptance of the Ottawa Street Extension, all dedications to the Township described in Schedule "C" attached hereto shall be delivered to the Township's solicitor free and clear of any encumbrances.

10.1.3 To convey such easements as outlined in Schedule "C", free from any encumbrances, as shown on the Engineering Plans approved by the Township for the purposes set out therein and such other easements required during construction. All easement documents shall be executed by the Subdivider and Mortgagee(s), if any, and delivered to the Township's solicitor prior to Final Acceptance of the Ottawa Street Extension, and such easements shall be registered free and clear of any encumbrances.

10.2 Reserves

To terminate all dead ends and open sides of road allowances within the Ottawa Street Extension in 0.30 metre reserves, including those outlined in Schedule "F", and convey these and any other 0.30 metre reserves in the Plan in fee simple, free from encumbrances, to the Township.

10.3 Subdivider Charges the Land

To charge the Lands with the performance of this Agreement.

10.4 No Exemption of Liability

That nothing in this Agreement exempts the Subdivider or anyone claiming by or through or under it from compliance with any By-law of the Township, the Region or any statute or regulation of Ontario or of Canada or of any other law or exempts it from any liability accruing to it as the developer and constructor of the Ottawa Street Extension.

10.5 Registration of Agreement

This Agreement shall be registered by the Township as a first charge upon title of the Lands, at the cost and expense of the Subdivider.

10.6 Construction Act

10.6.1 To hold back payments to the Contractor who may construct the services of such sums as are provided in accordance with the *Construction Act*, R.S.O. 1990, c. C.30, as amended (the "*Construction Act*") and will otherwise indemnify the Township against any claims, actions or demands for construction liens or otherwise in connection with the works and all costs in connection therewith, and on the demand of the Director of Development Services (or their designate) will forthwith take such steps to immediately discharge all liens upon the services.

10.6.2 That, notwithstanding anything to the contrary contained in this Agreement, the Subdivider hereby agrees that the filing of any liens pursuant to the *Construction Act* with respect to the Lands shall entitle the Township to draw on any or all of the Letter of Credit referred

to in Subsection 4.5 of this Agreement and to utilize the said draw to make payment into Court of the holdback together with costs.

10.6.3 To reimburse the Township, acting reasonably, for all legal and administration costs associated with the removal of the lien on the Township-owned lands within the Draft Plan pursuant to the *Construction Act* within the timeline specified in an invoice(s) issued by the Township to the Subdivider for such legal and administration costs. The Subdivider further agrees that its failure to pay the Township's legal and administration costs within the timeline specified in the invoice(s) will entitle the Township to draw on any or all of the Letter of Credit referred to in Subsection 4.5 of this Agreement and to utilize the said draw to cover the Township's legal and administration costs for the removal of the lien on the Township-owned lands within the Draft Plan pursuant to the *Construction Act*.

10.7 Township as Agent of the Subdivider

That any work done by the Township for or on behalf of the Subdivider, or by reason of the Subdivider not having done the work in the first instance, shall be deemed to be done as agent for the Subdivider and shall not, for any purpose whatsoever, be deemed as an Acceptance of the Works by the Township.

10.8 Enforcement of Agreement

To not call into question, directly or indirectly in any proceedings whatsoever in law or in equity or before any administrative tribunal, the right of the Township to enter into this Agreement and to enforce each and every term, covenant and condition herein contained, and this Agreement may be pleaded as an estoppel against the Subdivider in such proceedings.

10.9 Severability

That should Section(s), Schedule(s) or any part thereof in this Agreement be challenged through the Courts and subsequently the Section(s), Schedule(s) or any part thereof be deemed to be null and void, the Subdivider agrees that the remaining conditions outlined in this Agreement shall remain in full force and effect.

10.10 Assignment of Agreement

That it is hereby agreed that this Agreement and the covenants, provisions and conditions contained herein shall enure to the benefit of and be binding upon the respective heirs, executors, administrators, successors and permitted assigns of the parties hereto. If the Subdivider does not develop the Lands or any part(s) thereof, the Subdivider and/or its successor(s) shall nevertheless be bound by the terms of this Agreement.

10.11 Consent of Party of the Third Part

The Party of the Third Part for and in consideration of the sum of two (\$2.00) dollars now paid to it (the receipt and sufficiency whereof are hereby acknowledged) does hereby consent to the Agreement herein.

11.0 **SPECIAL CONDITIONS**

The Subdivider agrees:

11.1 To grant to the Township and all appropriate authorities, free from costs and encumbrances, the lands and easements for public purposes, as described in the Land Exchange Agreement, including all additional lands reasonably required by the Director of Development Services for completion of the Works. Without limiting the generality of the foregoing:

- i. The Subdivider acknowledges that it has agreed to convey the Midwest Ottawa Street Lands to the Township; and
- ii. The Township acknowledges that it has agreed to convey Menno Street remnant lands, free and clear of all encumbrances to the satisfaction of the Subdivider's solicitor in accordance with the Land Exchange Agreement.

11.2 That the Township will permit the Subdivider to undertake the construction of the Ottawa Street Extension in accordance with Section 11.3 below notwithstanding that the Township does not have ownership of the said road allowance pursuant to the Land Exchange Agreement.

Nature of the Works

11.3 To construct the Ottawa Street Extension and its associated servicing components to a standard urban cross-section including a sidewalk on one side of the street, boulevard tree plantings on

both sides of the street, a preferred minimum road grading of 0.7% and LED street lighting, and the following:

- a) 35 metre wide ultimate cross section;
  - b) 23 metre wide interim sub-collector cross-section;
  - c) 450mm watermain;
  - d) 200mm and up to a 375mm sanitary sewer;
  - e) 300mm and up to a 965mm by 1525mm storm sewer;
  - f) Stormwater management facilities (Blocks 241 (SWMF 3) and Block 239 (SWMF 2)); and
  - g) 300mm groundwater management system,
- all in accordance with the Engineering and Planning Drawings and to the satisfaction of the Township.

Subdivider is the Proponent of the Construction Project

- 11.4 That the Subdivider shall be the proponent for the design and construction of the Ottawa Street Extension as noted in Section 11.3 and detailed in Schedule “H” (hereinafter the “Construction Project”) and is, therefore, fully responsible for the administration of the Construction Project, in consultation with the Township, which includes, but is not limited to, addressing the following items to the satisfaction of the Township:
- a) Competing the design of the Works to the satisfaction of the Township and, where applicable, the GRCA, the Region and the applicable utility companies.
  - b) Making satisfactory arrangements and coordinating with the applicable utility companies for the provision of utilities to the development and the street lighting system.
  - c) The preparation, review, awarding and administration of the tender document/contract for the Construction Project as further detailed in Sections 11.5 to 11.7.
  - d) The provision of insurance coverage as set out in Sections 4.3 and 6.3.
  - e) Matters related to indemnification as set out in Section 4.2.
  - f) Township construction requirements and standards as set out in Section 5.
  - g) General consulting engineering requirements, including the submission of “as-recorded” drawings, as set out in Section 6.
  - h) Inspection and reporting as set out in Section 6.2.
  - i) General contractor requirements as set out in Section 6.3.
  - j) Contractor’s bonding.
  - k) Completion, maintenance and final acceptance as set out in Section 8.
  - l) Compliance with the *Construction Act* as set out in Section 10.6.
  - m) Obtaining the required permits and approval as noted in Section 9.
  - n) Coordination and execution of the critical watermain shutdown, which will affect large businesses that use water in the vicinity of the Construction Project, as well as Region of Waterloo International Airport operations. Connection will occur on the Region and Township dual watermain and in the low water demand hours for the said businesses.

Tendering

- 11.5 To prepare a Request for Tender (“RFT”) for the Works itemized in Schedule “H”, utilizing the Township’s standard tender document/contract (the “Tender Contract”), which may be modified accordingly for this Construction Project and shall be reviewed by the Township prior to releasing the RFT to the contractors that may submit a bid for the construction of the Works. The Subdivider further agrees to review the tender bids received for the Construction Project in consultation with the Township and shall award the tender to the lowest bidder, or sole source the tender to a specific contractor if approved by the Township.
- 11.6 That if addenda are required to the Tender Contract as a result of revisions, additions and/or deletions to the Tender Contract, then such addenda shall be reviewed and administered by the Subdivider pursuant to Township approval.
- 11.7 That any unforeseen costs which are identified as a result of addenda to the Tender Contract noted in Section 11.5 and/or as a result of issues identified during the Construction Project, and such unforeseen costs are not included or properly reflected in the estimated costs outlined in Schedule “H” and/or in the Tender Contract, then such unforeseen costs shall be appropriately cost shared between the Subdivider and the Township pursuant to Section D.

Cost Sharing of Works

- 11.8 The Township agrees to be financially responsible for a portion of the design and construction cost of the Ottawa Street Extension. The Township’s portion of this cost-sharing arrangement with the Subdivider shall be based on the following percentage split:
- a) The Subdivider and the Township shall share equally (50% split) in the cost of the following Works for the Ottawa Street Extension, which is detailed in Schedule “H”:
    - Design, administration and construction of the following:

- Gravel road base;
  - Base coat and surface coat asphalt;
  - Sidewalk;
  - Curbs / gutters;
  - Landscape within the right-of-way;
  - Street lighting;
  - Upsizing of the watermain from 300mm to 450 (pipe cost only); and
  - Storm sewer sizing for fifty (50%) per cent portion of the 23m sub-collector road.
- b) The Subdivider shall incur one hundred (100%) per cent of the cost of the following Works for the Ottawa Street Extension, which is detailed in Schedule “H”:
- Design, administration and construction of the following:
    - Underground and Aboveground Utilities, subject to the exemption in Subsection 11.8 a) above;
    - Wetland re-establishment in accordance with the GRCA requirements;
    - Grading and drainage;
    - Stormwater management facility;
    - Dry utility relocations (telecom, gas, hydro, etc.);
    - Related Works associated with the above; and
    - Stop-up and close and future decommissioning of Menno Street;
  - All maintenances and remedial repairs associated with the items listed in the Subsection 11.8 b) Works during Final Acceptance and Final Assumption pursuant to Section 8 of this Agreement.

Subdivider Front-Ending

11.9 To acknowledge that the Township’s share of the cost for the design, administration and construction of the Works outlined in Subsection 11.8 a) above for the Ottawa Street Extension as outlined in Schedule “E” will be funded through the Township’s development charges, pursuant to the 2024 Township of Woolwich Development Charges Study update. It is further agreed that the Subdivider will front-end the financing of the said Township’s share. The Township will reimburse the Subdivider by applying a Credit against the Development Charges Payable to the Township by the Subdivider, which is based on the applicable Township development charge rate in effect at the time of payment for each residential unit or non-residential gross floor area building permit that is issued by the Township within the Midwest Draft Plan, until such time as the cost that was financed and front-ended by the Subdivider has been fully reimbursed in the form of these Credits. The Township’s Finance Services Department shall track the costs associated with the final construction cost for the Township’s share of Works and reimburse the Subdivider based on the applicable development charge fees associated with the building permits for the Midwest Draft Plan. The reimbursement shall not include inflation or any additional fees above and beyond the costs included in Schedule “K”, nor does it include credits to any Regional development charge, education development charge or building permit fees/deposits. The building permit fees shall be those that are required at the time of construction and/or in accordance with the applicable by-law associated with building permit fees at the time of building permit issuance. Should the Credits available through the development of the Subdivision not be sufficient to repay the amount owed by the Township, the remaining balance is to be reimbursed to the Subdivider in a timely manner as soon as possible after full development of the residential phases of the Midwest Draft Plan.

Performance and Timelines

- 11.10 That construction timelines, performances, penalties, and a commencement date for the Construction Project shall be consistent with the timelines in Schedule “G” and defined in the Tender Contract.
- 11.11 That the commencement of pre-servicing for the Works of Phase 1 of the Draft Plan shall only occur after the Performance Acceptance of the underground services and granular and road to base course asphalt for the Ottawa Street Extension ensuring that the road is deemed safe for public use has been issued for the Ottawa Street Extension. It is further agreed that, prior to the registration of Phase 1 of the Draft Plan, the following is required:
- a) the Ottawa Street Extension is opened as a municipal road by way of a by-law passed by Township Council; and
  - b) the removal and decommissioning of Menno Street that will develop as residential lots/blocks with the Midwest Draft Plan, which includes the decommissioning of the underground and above ground services and utilities, all to the satisfaction of the relevant utility provider.
  - c) Township fees to be updated and received, (Thought their where other items that are required before registration. Inspection, fire flow tests, SWM / Hydrogeological monitoring reports, SWMF operation manual, etc.)
  - d) the decommissioning of Menno Street services shall not occur until Ottawa Street services are completed.

Interim Drainage for Undeveloped Lands:

- 11.12 To provide a temporary drainage system to accommodate drainage from any portion of the undeveloped Lands abutting the Works to the satisfaction of the Director of Development Services (or their designate). If, in the opinion of the Director of Development Services (or their designate), drainage problems occur as a result of an insufficient temporary drainage system for the undeveloped Lands, the Subdivider shall correct them by regrading or the construction of additional catch basins, swales, retaining walls, or other structures, which may be necessary in order to correct such problems and as directed by the Director of Development Services.

Permission to Grade

- 11.13 To provide to the Township, prior to construction, written permission from affected landowners for any grading proposed by the Subdivider onto lands outside the Ottawa Street Extension.

Underground and Aboveground Works

- 11.14 To be solely responsible for the long-term maintenance of the Works until Assumption, at its own cost and expense, in accordance with standards established by the Director of Development Services and provincial legislation.

Maintenance of Menno Street

- 11.15 To be responsible for the maintenance of the underground utilities along, under and associated with Menno Street for the duration of the construction of Ottawa Street Extension. This includes ensuring the utility providers are informed of ongoing works and any impacts that may be made to their utilities.

The Subdivider shall be responsible for ensuring that the signage directing the public to not use Menno Street. This includes signage as well as physical barriers to impede the public from accessing these lands.

- 11.16 Maintenance of Services

That the existing services and utilities within the entire Menno Street road allowance shall be maintained at all times, including the watermain that supplies the lands east of Fountain Street North. At no time during the transition of servicing and road works from Menno Street West to the Ottawa Street Extension shall there be service interruption, nor shall the services be cut off to the lands to the east of Fountain Street North unless it is a temporary interruption, approved by the Township, to facilitate the transition of services utilities from Menno Street to the Ottawa Street Extension. This will be the sole responsibility of the Subdivider, including all indemnification of the Township and the Region. It shall also be recognized that representatives from the Township, Region or an applicable utility provider shall be permitted to be on-site for review purposes and for good cause.

- 11.17 Breslau Municipal Drain

The Subdivider shall provide access to the development lands for the purpose of Township works on the Breslau Municipal Drain for purposes of Township maintenance or reconstruction works for the Breslau Municipal Drain.

- 11.18 Assumption

- (a) The Subdivider shall maintain and keep in a proper state of repair and operation all the Works and utilities including any temporary works or external works until Assumption.
- (b) The Subdivider acknowledges and agrees that the Township may connect or permit the connection of Works that are not assumed to the Township's existing infrastructure, but such connections shall not constitute Acceptance or Assumption.
- (c) In the event that the Subdivider fails to keep any of the Works in a proper state of repair up to Assumption, the Township may, upon seven (7) days' written notice of such default or inaction delivered by registered mail, enter upon the Ottawa Street Lands and make such repairs as are necessary in the opinion of the Director of Development Services. The Subdivider shall pay the Township the full cost thereof plus administrative fees within five (5) Business Days of receipt of the Township's invoice.

- 11.19 Compliance with Draft Plan Conditions

The conditions that outline requirements for the construction of Ottawa Street that are included in the Draft Plan Conditions for Subdivision 30T-20701 shall be adhered to as part of this Agreement. If, in the event that there are any inconsistencies between the Draft Plan Conditions and this Agreement, the

provisions within this Agreement will supersede those of the Draft Plan Conditions. If there are provisions that are not addressed as part of this Agreement that are identified in the Draft Plan Conditions, those provisions shall be addressed as part of this Agreement to the satisfaction of the Director of Development Services.

#### 11.20 Geodetic Monuments

To install geodetic monuments to the satisfaction of the Township, with coordinates and elevations therein, and that the Plan submitted for registration shows the locations of the monuments, their coordinates values, elevations and code numbers prescribed by the Surveyor General of Ontario.

#### 11.21 Transit Stops

- (a) Transit stops shall be provided in accordance with Grand River Transit's ("GRT") Bus Stop Design Guidelines Standard C-4.
- (b) Proposed bus stops / shelters are to be located on Ottawa Street as follows:
  - i) Northeast side of the intersection of Ottawa Street and Woolwich Street South;
  - ii) Southeast side of the intersection of Ottawa Street and Woolwich Street South; and
  - iii) Northwest side of the intersection of Ottawa Street and Fountain Street North.
- (c) The final locations, pad, shelter and electrical requirements shall be provided by the Region and/or in cooperation with GRT. It is the responsibility of the Subdivider to coordinate with the Region and/or GRT to ensure that the requirements for the transit stops are completed to the satisfaction of the Region.
- (d) The Subdivider shall provide to the Township correspondence from the Region confirming that the applicant has fulfilled the obligations related to the transit stop clauses noted above.

#### 11.22 Grand River Conservation Authority

- (a) Prior to commencement of the construction of the Works within the Ottawa Street Extension, an Integrated Class Environmental Assessment under the *Environmental Assessment Act*, R.S.O. 1990, c. E.18, as amended, shall be approved through submission and approval of a Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Permit issued by the GRCA.
- (b) Prior to commencement of the construction of the Works within the Ottawa Street Extension, the Subdivider shall provide the Township with confirmation that the GRCA is satisfied that the Subdivider has completed the "prior to" requirements as provided in the Draft Plan of Subdivision 30T-20701 relating to the Ottawa Street Extension and Extension Lands.

#### 11.23 Pre-servicing

##### 11.23.1

Pursuant to Clause 3.1.2 in this Agreement, which requires only the installation of Works on the Extension Lands (*i.e.*, "Pre-Servicing"), the Subdivider shall satisfy the following conditions prior to the commencement of Pre-Servicing, which includes the pre-grading of the Extension Lands if the applicable pre-grading conditions for Draft Plan approval in Township Draft Plan Conditions contained in Township Council resolution, dated February 23, 2024 (*i.e.*, "Township Draft Plan Conditions"), has not been satisfied or a Site Alteration Permit has not been issued pursuant to the Township's Site Alteration By-law Number 86-2020:

- a) The submission of a formal written request to the Planning Section of the Development Services Department and its subsequent Acceptance for the commencement of Pre-Servicing of the applicable phase based on a tentative construction schedule. The submission shall also include:
  - i) A summary of how conditions b) to k) below have or will be satisfied; and
  - ii) An acknowledgment that the Pre-Servicing of the Ottawa Street Extension is being done at the Subdivider's own risk and expense, that they shall indemnify and save harmless the Township against any liability and that the Township will not be held responsible for paying any of the costs incurred by the Subdivider or other parties on its behalf in respect to the design, approval or construction, including Pre-Servicing of the Extension Lands or any costs whatsoever;
- b) Township approval of the Engineering and Planning Drawings;
- c) Submission of the most up-to-date groundwater monitoring report (*i.e.*, a groundwater monitoring report that is prepared within the same calendar year of Pre-Servicing of the applicable phase) indicating that there are no groundwater irregularities or adverse impacts on neighbouring private wells due to the Subdivider's development activities occurring within or outside Extension Lands;
- d) A clearance letter/e-mail received from the GRCA indicating:

- i) Acceptance of the Engineering and Planning Drawings for the Ottawa Street Extension;
- ii) Issuance of a Development, Interference with Wetlands and Alterations to Shorelines and Watercourse permit, if required for the Ottawa Street Extension; and
- iii) Consent that Pre-Servicing may proceed for the Ottawa Street Extension;
- e) A clearance letter/e-mail received from the Township Engineering Section of the Development Services Department indicating:
  - i) That the Engineering and Planning Drawings for the Ottawa Street Extension have been approved;
  - ii) Acceptance of the tendering costs, which is used to calculate the required securities for Pre-Servicing of the Ottawa Street Extension as detailed in Subsection 12.2;
  - iii) Acceptances of the tendering documents and construction work schedule confirming that the required primary services for the Ottawa Street Extension, as outlined in Schedule "I", will be completed as part of the construction contract and work schedule and prior to the issuance of building permits within the Plan;
  - iv) Acceptance of the most up-to-date groundwater monitoring report as noted in c) above;
  - v) Receipt of the required certificate of insurance from the Subdivider pursuant to Subsection 4.3; and
  - vi) Satisfying conditions contained in Subsection 6.3 related to the contractor that was awarded the Pre-Servicing contract;
- f) A clearance letter/e-mail from Enova for the hydro services, indicating that Pre-Servicing of the Ottawa Street Extension may proceed;
- g) A clearance letter/e-mail from Enbridge Gas Company with respect to installation and/or removal of gas services, indicating that Pre-Servicing of the Ottawa Street Extension may proceed;
- h) The submission of the Environmental Compliance Approvals from MECP and/or the applicable municipal authority for the required Works within the Ottawa Street Extension pursuant to Subsection 9.6 and any other required approval in Section 9; submission of the required Letter of Credit for Pre-Servicing of the Ottawa Street Extension in accordance with Subsection 4.5;
- i) Installation of the erosion control measures;
- j) Holding a pre-construction meeting with the Township's Development Engineering Section to address such matters as, but not limited to:
  - i) Confirming the construction schedule and timing;
  - ii) Confirming the haulage route and ensuring that the required notification signs are erected pursuant to Subsection 5.1;
  - iii) Inspecting/confirming that the erosion control measures are installed;
  - iv) Confirming that all documentation required by the Subdivider and contractor are in place; and
  - v) Any other matters as determined by the Township.

11.23.2

In addition to Subsection 4.5 and pursuant to Clause 11.16.1 above, the Subdivider shall submit a Letter of Credit to the Township in a satisfactory form outlined in Subsection 4.5 and prior to Pre-Servicing of the Ottawa Street Extension which is calculated based on the following:

- a) Fifteen (15%) per cent of the total construction cost of Works on the Lands,
  - b) Fifteen (15%) of the Works to be completed and front-ended by the Subdivider that the Township is financially responsible for as per Subsection 11.8 a); and
  - c) 100% of the cost of Works on Township-owned lands, public road allowances or that is funded by the Subdivider as required by Subsection 11.8 b),
- as outlined in Schedules "D" and "E" of this Agreement.

12.0 DISPUTE RESOLUTION

12.1 The Township and the Subdivider acknowledge and agree that, in the event of any disagreement between the Township, and the Subdivider as to the requirement to perform or the performance of any obligations under this Agreement, such dispute shall be remitted to negotiations between a member of the Township's and the Subdivider's respective senior management staff. If the dispute cannot be settled by such negotiations, it shall be submitted to arbitration pursuant to the *Arbitration Act, 1991*, S.O. 1991, c. 17, as amended.

13.0 MISCELLANEOUS PROVISIONS

13.1 Binding on Successors:

It is hereby agreed by and between the parties hereto that this Agreement shall enure to the benefit of and be binding on and enforceable by and against the parties, their heirs, executors, administrators, successors and permitted assigns. Except as expressed otherwise in this Agreement, upon satisfaction of the Subdivider's obligations pursuant to this Agreement, the Township shall issue confirmation of completion of, and full and final release of, the Subdivider's obligations herein.

13.2 Severability and Jurisdiction:

If any provision of this Agreement is determined by a Court of competent jurisdiction to be illegal or beyond the power, jurisdiction, or capacity of any party bound hereby, such provision shall be severed from this Agreement and the remainder of this Agreement shall continue in full force and effect and, in such case, the parties agree to negotiate in good faith to amend this Agreement in order to implement the intentions as set out herein. It is agreed and acknowledged by the parties that each is satisfied as to the jurisdiction of each party to enter into this Agreement. The parties agree that they shall not question the jurisdiction of any party to enter into this Agreement nor question the legality of any portion hereof, nor question the legality of any obligation created hereunder, and the parties, their successors and permitted assigns are and shall be estopped from contending otherwise in any proceeding before a Court of competent jurisdiction or any administrative tribunal.

13.3 Warranty and Capacity:

The Subdivider warrants to the Township as follows:

- (a) the Subdivider are corporations validly subsisting under the laws of Ontario or Canada and have full corporate power and capacity to enter into this Agreement and any documents arising from this Agreement.
- (b) all necessary corporate action has been taken by such parties to authorize the execution and delivery of this Agreement.
- (c) it/they own(s) the Lands as described in Schedule "A" indicated as owned by Subdivider.

13.4 Claims Inconsistent with this Agreement:

The Subdivider hereby acknowledges that this Agreement is entered into and executed by it for the purpose of having the Township act in reliance on the covenants by each other contained herein, and the Subdivider does hereby waive any right or claim which they now have or may hereinafter acquire which is inconsistent with the terms of this Agreement.

13.5 Governing Law:

This Agreement shall be interpreted under and is governed by the laws of the Province of Ontario and the laws of Canada applicable therein and shall be treated in all respects as an Ontario contract.

13.6 Further Documents:

The Township and the Subdivider agree to execute such further documents and instruments and cause the doing of such additional acts, as are within their power as the Township and the Subdivider to reasonably request be done or executed, in order to give full effect to the provisions and conditions of this Agreement and the transactions contemplated herein.

13.7 Time of the Essence:

Time shall be of the essence of this Agreement and each of its provisions.

13.8 Non-Fettering and Paramourcy of Municipal Obligations:

Nothing in this Agreement derogates from, interferes with, or fetters the exercise by the Township of all of its rights and obligations as a municipality (whether discretionary or mandatory) or imposes any obligations on the Township in its role as a municipality, and the Township shall not be prevented from or prejudiced in carrying out its statutory rights and responsibilities. Nothing in this Agreement derogates from, interferes with, or fetters the exercise by the Township's officers, employees, agents, representatives or elected and appointed officials of all of their rights, or imposes any obligations on the Township's officers, employees, agents, representatives or elected and appointed officials, other than as expressly set out in this Agreement.

13.9 Emergencies:

The parties acknowledge that, in the event of an Emergency, the Township's ability to conduct due diligence and/or other work required to complete the Works contemplated in this Agreement may be hampered or delayed. Accordingly, the parties covenant and agree that, in the event of an Emergency, all timelines and dates specified in this Agreement that occur between the commencement date of an Emergency and the end of the Emergency shall be automatically extended until the date that is five (5) Business Days following the end of the Emergency. In this section, "Emergency" means a situation in which a state of emergency has been declared over the Township of Woolwich. The commencement date of the Emergency shall be the date of the



public declaration of such emergency by the applicable authority, and the end date shall be the date that such authority has issued a public declaration that such state of emergency has ended.

13.10 Force Majeure:

The Subdivider shall not be liable or responsible to the Township, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term or condition of this Agreement when and to the extent such failure or delay is caused by or results from acts beyond the Subdivider's (the "Impacted Party") reasonable control, including, without limitation, the following force majeure events that frustrate the purpose of this Agreement: (a) acts of God; (b) flood, fire, earthquake or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot or other civil unrest; (d) government order or law; (e) action by any governmental authority; (g) national or regional emergency; (h) strikes, labor stoppages or slowdowns or other industrial disturbances; (i) epidemic or pandemic or similar influenza or bacterial infection; and (j) other similar events beyond the reasonable control of the Impacted Party.

13.11 Amendment and Waiver:

This Agreement and all of its provisions shall not be deemed or construed to be modified, amended, rescinded, cancelled or waived in whole or in part except by written amendment of the parties to this Agreement. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute waiver of any other provisions (whether or not similar), nor shall any such waiver constitute a continuing waiver unless expressly otherwise provided in writing.

13.12 Entire Agreement:

This Agreement and any agreements, instruments and other documents herein contemplated to be entered into between, by or including the parties hereto constitute the entire agreement between the parties hereto pertaining to the construction, maintenance and dedication of the Road and associated Works provided for herein and supersede all prior agreements, understandings, negotiations and discussions, whether oral or written, with respect thereto, and there are no other warranties or representations and no other agreements between the parties hereto in connection with the construction, maintenance and dedication of the Road and associated Works provided for herein except as specifically set forth in this Agreement or the Schedules attached hereto.

13.13 Execution in Counterpart:


This Agreement may be executed electronically and in counterparts, each of which counterpart shall be deemed an original and all of which together shall constitute one and the same instrument, and, upon execution hereof by all parties, this Agreement shall constitute a binding agreement and be governed by the laws of the Province of Ontario.

[The remainder of this page intentionally blank. Signature page follows]

IN WITNESS WHEREOF the Subdivider has hereunto affixed its Corporate Seal under the hands of its duly authorized officers in that behalf and the Township has hereunto affixed its Corporate Seal under the hand of its authorized signatory.

SIGNED, SEALED AND DELIVERED

**MADWEST BRESLAU LIMITED**

DocuSigned by:  
Per:   
6EE058275D4E498...

David Singer  
Authorized Signing Officer

I have the authority to bind the Corporation.

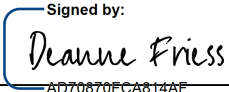
**WOOLWICH SOUTH HOLDINGS LIMITED**

DocuSigned by:  
Per:   
6EE058275D4E498...

David Singer  
Authorized Signing Officer

I have the authority to bind the Corporation"

**THE CORPORATION OF THE TOWNSHIP OF WOOLWICH**

Signed by:  
Per:   
A070870FCA814AF...

Name: Deanne Friess  
Title: Director of Development Services

**CANADIAN IMPERIAL BANK OF COMMERCE**

Per: \_\_\_\_\_

Name: **Matthew Garrison**  
Title: **Authorized Signatory**

Per: \_\_\_\_\_

Name: **Sam Cirone**  
Title: **Authorized Signatory**

We have the authority to bind the Bank



**SCHEDULE "A"**

**LEGAL DESCRIPTION OF THE PARTIES' LANDS**

**LEGAL DESCRIPTION OF SUBDIVIDER'S LANDS**

Those Lands in the Township of Woolwich being;

**LEGAL DESCRIPTION OF MADWEST LANDS**

PIN: 22254-0094 (LT): PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO BEING PT 2 ON 58R2543, EXCEPT PTS 1, 13, 14, 15, 16 & 17 ON 58R11575, PTS 1 & 2 ON 58R13140 & PT 1 ON 58R13141; S/T 1543166; TOWNSHIP OF WOOLWICH; (CONVERSION OF LANDS PENDING)

PIN: 22251-0099 (LT): PART LOTS 108 AND 114, GERMAN COMPANY TRACT, WATERLOO, PARTS 1 AND 3, PLAN 58R-3651, S/T 77537; TOWNSHIP OF WOOLWICH; (CONVERSION OF LANDS PENDING)

PIN: 22251-0100 (LT): PART LOTS 108 AND 114, GERMAN COMPANY TRACT, WATERLOO, PARTS 2 AND 4, PLAN 58R-3651, S/T 775376; CITY OF WATERLOO; (CONVERSION OF LANDS PENDING)

PIN: 22251-0231 (LT): PT LT 108 GERMAN COMPANY TRACT TWP OF WATERLOO; PT LT 114 GERMAN COMPANY TRACT TWP OF WATERLOO WATERLOO), BEING PT 1 ON 58R2561, LYING WEST OF PT 2 ON 58R11542 & PT 1 ON 58R13142; WOOLWICH; (CONVERSION OF LANDS PENDING)

PIN: 22251-1450 (LT): PART LOT 109 GERMAN COMPANY TRACT TWP OF WATERLOO, PARTS 1, 2 AND 3, 58R21982; SUBJECT TO AN EASEMENT IN GROSS OVER PARTS 2 AND 3 58R21982 AS IN WR1527495; TOWNSHIP OF WOOLWICH

**LEGAL DESCRIPTION OF WOOLWICH SOUTH LANDS**

22254-0215 (LT): PART LOT 115, GERMAN COMPANY TRACT TOWNSHIP OF WATERLOO, PARTS 1 TO 4, PLAN 58R-21963; SUBJECT TO AN EASEMENT OVER PARTS 2 AND 3, PLAN 58R-21963 AS IN B42036; TOWNSHIP OF WOOLWICH

**LEGAL DESCRIPTION OF TOWNSHIP LANDS**

22251-0002 (LT) - FIRSTLY: PCL A PL 892 WOOLWICH; PT LT 104 GERMAN COMPANY TRACT TWP OF WATERLOO PT 2, 58R2802; PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO PT 2, 58R7564, PT 3, 58R4463 & AS IN 243964; SECONDLY: PT LT 104 GERMAN COMPANY TRACT TWP OF WATERLOO; PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO; PT LT 115 GERMAN COMPANY TRACT TWP OF WATERLOO BEING FORCED RD AKA TWP RD 80, MENNO ST BTN REGIONAL RD 17 & REGIONAL RD 30; WOOLWICH

22251-0233 (LT) -PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO BEING PTS 3, 4, 5, 6 & 7 ON 58R11542; WOOLWICH;

22254-0093 (LT) - PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO BEING PTS 1, 13, 14, 15, 16 & 17 ON 58R11575, PT 1 ON 58R13140 & PT 1 ON 58R13141; S/T & T/W 662324; S/T 357675; S/T B41490; WOOLWICH

**LEGAL DESCRIPTION OF LANDS TO BE TRANSFERRED FROM THE REGION TO TOWNSHIP**

Part of 22251-0233 (LT) -PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO BEING PTS 3, 4, 5, 6 & 7 ON 58R11542; being Part 3 on Reference Plan 58R-21819; WOOLWICH;

Part of 22254-0093 (LT) - PT LT 109 GERMAN COMPANY TRACT TWP OF WATERLOO BEING PTS 1, 13, 14, 15, 16 & 17 ON 58R11575, PT 1 ON 58R13140 & PT 1 ON 58R13141; S/T & T/W 662324; S/T 357675; S/T B41490; being Part 2 on Reference Plan 58R-21819; WOOLWICH

**SCHEDULE "B"**

REFERENCE PLAN 58R-22111



**SCHEDULE "C"**

Being a description of all easements, lands and reserves to be conveyed by the Subdivider to the Township upon completion of the Works or as directed by the Director of Development Services:

**Road and Easements Lands To Be Conveyed**

Part Lot 115, German Company Tract, Parts 4 and 7, Plan 58R-22111, being part of PIN: 22254-0215 (LT);

Part Lot 109, German Company Tract, Parts 10, 11 and 15, Plan 58R-22111, being part of PIN: 22254-0216 (LT); SUBJECT TO an easement in favour of Waterloo North Hydro Inc. over Part 11, Plan 58R-22111 as set out in Instrument No. 1543166;

**Reserve & Easement Lands To Be Conveyed**

Part Lot 115, German Company Tract, Parts 1, 2, 3, 5, 6, 8 and 9 Plan 58R-22111, being part of PIN: 22254-0215 (LT); SUBJECT TO an easement in favour of The Hydro-Electric Power Commission of Ontario over Parts 1, 2 and 3, Plan 58R-22111 as set out in Instrument No. B42036;

Part Lot 109, German Company Tract, Parts 12, 13, 14, and 16, Plan 58R-22111, being part of PIN: 22254-0216 (LT); SUBJECT TO an easement in favour of Waterloo North Hydro Inc. over Part 16, Plan 58R-22111 as set out in Instrument No. 1543166;

**SCHEDULE "D"**

**SUMMARY OF FINANCIAL PAYMENTS TO THE TOWNSHIP**  
**BY THE SUBDIVIDER**



## **SCHEDULE “D”**

Description of work performed	Estimate SV Law legal fees for agreement review / creation	K Smart Stormwater Management peer review	Aecom Hydrogeological peer review	Township 15% admin fee as per fees and charges bylaw	Estimate Township Water Operations fee including water consumption	Total Costs
Madwest / Township, Woolwich St. sanitary sewer cost sharing agreement	\$3,567.57 (inv. # 13935)			\$535.14		
Land Exchange Agreement	\$10,000			\$1,500		
Construction Agreement	\$15,000			\$2,250		
Quote for detail design review for Madwest subdivision		\$13,560.00 (includes HST) Ref # 20-311:003				
Quote for detail design review for Madwest subdivision			\$10,190 (includes HST). Submitted June 12, 2024			
Ottawa St. watermain connection					\$15,000	
						<b>\$71,602.71</b>

**Note 1:** Township 15% administration fee to be charged as per most current fees and charges bylaw to SVL invoices only

**Note 2:** Estimate for Township Operations fee includes all associated work for new critical watermain connection, existing watermain shutdown, coordination, off hours implementation, etc.

**Note 3:** Additional Peer review fees will be calculated for the future TIS Hydrogeological and Stormwater Management monitoring reports.

**Note 4:** Values above are based on general estimates. Once final 3<sup>rd</sup> party invoices are provided actual costs will be billed to Madison Group.

**SCHEDULE "E"**

**LIST OF ITEMS FOR WHICH LETTERS OF CREDIT  
ARE TO BE FILED BY THE SUBDIVIDER UPON EXECUTION OF THIS AGREEMENT**

In addition to the other requirements of this Agreement, the Subdivider shall provide, upon execution of this Agreement, Letters of Credit for the due performance of all the obligations provided for in the following Sections, and for the amounts specified herein:

1.	Public Works (From Schedule "H")	\$3,327,177.93
2.	Street Tree Planting - Subsection 6.2	\$183,187.13
2.	Topsoil and Sod Boulevard - Subsection 6.2	\$369,555.06

**SCHEDULE "F"**

**RETURN OF LETTERS OF CREDIT**

The Township shall return Letters of Credit to the Subdivider under the following conditions:

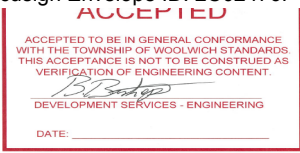
1. Public Works:

In accordance with Subsections 8.5 to 8.8

**SCHEDULE "G"**

**SCHEDULE OF CONSTRUCTION DATES**

	Start	Completion
UNDERGROUND SERVICES:	September 16, 2024	December 31, 2024
ABOVEGROUND SERVICES		
Primary Road Construction	January 1, 2025	April 30, 2025
Secondary Road Construction	within 12 to 24 months or as directed by the Director of Development Services	



**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

52782-114-SH.1

Cost estimate will be reviewed again just before registration to confirm if any changes need to occur.

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

**GR1.0 PROJECT START UP**

MTE-T-24-35 contract item values have been prorated where appropriate for the 23% portion of total subdivision construction costs that Part A (Ottawa Street works) represents within the contract.

GR1.1	Mobilization/Demobilization - Servicing and Primary Roadworks <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 4,945.00	\$ 4,945.00	15%	\$ 741.75
GR1.2	Mobilization/Demobilization - Phase A Secondary Roadworks	1	L.S.	\$ 6,000.00	\$ 6,000.00	100%	\$ 6,000.00
GR1.3	Traffic Control - Servicing and Primary Roadworks <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 2,760.00	\$ 2,760.00	15%	\$ 414.00
GR1.4	Traffic Control - Phase A Secondary Roadworks	1	L.S.	\$ 6,000.00	\$ 6,000.00	100%	\$ 6,000.00
GR1.5	Fee to carry VanRooyen Earthmoving Ltd. as a Sub-Contractor to satisfy the Ministry of Labour requirements (Provisional) <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 460.00	\$ 460.00	15%	\$ 69.00
GR1.6	Provide Site Office <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 2,300.00	\$ 2,300.00	15%	\$ 345.00
GR1.7	Contractor Layout <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 18,350.56	\$ 18,350.56	15%	\$ 2,752.58
GR1.8	Pre-construction Survey of Existing Surrounding Residences <i>*MTE-T-24-35 item prorated at 23%</i>	29	Each	\$ 16.26	\$ 471.57	15%	\$ 70.74
GR1.9	Post-construction Survey of Existing Surrounding Residences - to be completed upon request of homeowner (Provisional) <i>*MTE-T-24-35 item prorated at 23%</i>	29	Each	\$ 8.01	\$ 232.32	15%	\$ 34.85
GR1.10	Provide Vibration Monitoring <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 7,665.42	\$ 7,665.42	15%	\$ 1,149.81
GR1.11	Maintain Existing Mud Mat (currently installed as per Detail 1 on MTE DWG ES1.6) <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 1,380.00	\$ 1,380.00	15%	\$ 207.00
GR1.12	Maintain Existing Light Duty Silt Fencing (Currently installed as per Detail 4 on MTE DWG ES1.6) <i>*MTE-T-24-35 item prorated at 23%</i>	115	m	\$ 1.39	\$ 160.29	15%	\$ 24.04
GR1.13	Maintain Existing Heavy Duty Silt Fencing (Currently installed as per Detail 2 on MTE DWG ES1.6) <i>*MTE-T-24-35 item prorated at 23%</i>	2,800	m	\$ 3.02	\$ 8,455.72	15%	\$ 1,268.36
GR1.14	Decommission Existing Existing Temporary SWM Facility 2 outlet, complete with dewatering, and removal and disposal of perforated CSP riser in stone and 30.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 380.49	\$ 380.49	15%	\$ 57.07
GR1.15	Decommission Existing Existing Temporary SWM Facility 3 outlet, complete with dewatering, and removal and disposal of perforated CSP riser in stone and 68.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 578.91	\$ 578.91	15%	\$ 86.84
GR1.16	Decommission Existing Temporary sediment basin SB - 3 complete with dewatering, and removal and disposal of perforated CSP riser in stone and 30.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 380.49	\$ 380.49	15%	\$ 57.07
GR1.17	Decommission Existing Temporary sediment basin SB - 4 complete with dewatering, and removal and disposal of perforated CSP riser in stone and 24.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 349.16	\$ 349.16	15%	\$ 52.37
GR1.18	Decommission Existing Temporary sediment basin SB - 5 complete with dewatering, and removal and disposal of perforated CSP riser in stone and 81.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 646.80	\$ 646.80	15%	\$ 97.02
GR1.19	Decommission Existing Temporary sediment basin SB - 6 complete with dewatering, and removal and disposal of perforated CSP riser in stone and 65.0m 300mm outlet pipe, rip-rap erosion protection at overflow weir, and spreader berm. <i>*MTE-T-24-35 item prorated at 23%</i>	1	L.S.	\$ 563.25	\$ 563.25	15%	\$ 84.49
<b>TOTAL PROJECT START UP</b>					<b>\$ 62,079.97</b>		<b>\$ 19,512.00</b>

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

**1.0 SANITARY SEWERS**

Provide and install sanitary pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**1.1 PIPES**

SHERIDAN DRIVE		Dia.	Depth	DWG PP6.1					
1.1.1	Ex. STUB - MH54A	375mm	3.7m	62.8	m	\$ 182.40	\$ 11,454.72	15%	\$ 1,718.21
1.1.2	MH54A - MH53A	375mm	3.8m	19.8	m	\$ 182.40	\$ 3,611.52	15%	\$ 541.73
1.1.3	MH53A - Plug (Block 15)	200mm	3.5m	10.8	m	\$ 121.02	\$ 1,307.02	15%	\$ 196.05
1.1.4	MH53A - MH52A	375mm	3.8m	18.5	m	\$ 182.40	\$ 3,374.40	15%	\$ 506.16
1.1.5	MH52A - MH51A	375mm	4.0m	61.4	m	\$ 182.40	\$ 11,199.36	15%	\$ 1,679.90
1.1.6	MH51A - MH50A	375mm	4.4m	19.5	m	\$ 182.40	\$ 3,556.80	15%	\$ 533.52
1.1.7	MH50A - MH49A	375mm	5.0m	34.8	m	\$ 182.40	\$ 6,347.52	15%	\$ 952.13
1.1.8	MH49A - Plug (Block 237)	200mm	4.7m	11.5	m	\$ 120.53	\$ 1,386.10	15%	\$ 207.91
1.1.9	MH49A - MH48A	375mm	4.5m	62.2	m	\$ 182.40	\$ 11,345.28	15%	\$ 1,701.79
OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
1.1.10	MH48A - MH47A	375mm	4.8m	90.0	m	\$ 182.40	\$ 16,416.00	15%	\$ 2,462.40
1.1.11	MH47A - MH46A	375mm	4.8m	46.4	m	\$ 182.40	\$ 8,463.36	15%	\$ 1,269.50
1.1.12	MH46A - MH45A	375mm	4.4m	34.2	m	\$ 182.40	\$ 6,238.08	15%	\$ 935.71
1.1.13	MH45A - MH44A	375mm	4.4m	31.0	m	\$ 182.40	\$ 5,654.40	15%	\$ 848.16
1.1.14	MH44A - MH43A	375mm	4.5m	36.5	m	\$ 182.40	\$ 6,657.60	15%	\$ 998.64
1.1.15	MH43A - Plug	200mm	3.6m	22.5	m	\$ 116.83	\$ 2,628.68	15%	\$ 394.30
1.1.16	MH43A - MH42A	200mm	4.3m	67.7	m	\$ 112.96	\$ 7,647.39	15%	\$ 1,147.11
1.1.17	MH42A - Plug (Block 13)	200mm	4.2m	19.7	m	\$ 117.38	\$ 2,312.39	15%	\$ 346.86
1.1.18	MH42A - MH41A	200mm	4.2m	59.4	m	\$ 112.96	\$ 6,709.82	15%	\$ 1,006.47
1.1.19	MH41A - MH40A	200mm	4.1m	31.1	m	\$ 112.96	\$ 3,513.06	15%	\$ 526.96
1.1.20	MH40A - MH39A	200mm	4.0m	20.4	m	\$ 112.96	\$ 2,304.38	15%	\$ 345.66
1.1.21	MH39A - Plug (Block 12)	200mm	4.0m	19.7	m	\$ 117.38	\$ 2,312.39	15%	\$ 346.86
BURKHOLDER STREET		Dia.	Depth	DWG PP1.1, PP1.2 & PP1.3					
1.1.22	MH43A - Plug	300mm	4.3m	22.9	m	\$ 169.05	\$ 3,871.25	15%	\$ 580.69
<b>SUBTOTAL PIPES</b>							<b>\$ 128,311.50</b>		<b>\$ 19,246.72</b>

**1.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching and casting adjusted to binder asphalt grade. Manholes are to include wrapping with Mel-Rol or an approved equivalent where joints are within 1.2m of the 2 year seasonal water table.

SHERIDAN DRIVE		Dia.	Depth	DWG PP6.1					
1.2.1	MH54A	1200mm	3.7m	1	L.S.	\$ 7,177.19	\$ 7,177.19	15%	\$ 1,076.58
1.2.2	MH53A	1200mm	3.7m	1	L.S.	\$ 7,038.29	\$ 7,038.29	15%	\$ 1,055.74
1.2.3	MH52A	1200mm	3.7m	1	L.S.	\$ 7,038.29	\$ 7,038.29	15%	\$ 1,055.74
1.2.4	MH51A	1200mm	4.2m	1	L.S.	\$ 7,299.12	\$ 7,299.12	15%	\$ 1,094.87
1.2.5	MH50A	1200mm	4.6m	1	L.S.	\$ 7,559.95	\$ 7,559.95	15%	\$ 1,133.99
1.2.6	MH49A	1200mm	4.9m	1	L.S.	\$ 7,820.79	\$ 7,820.79	15%	\$ 1,173.12
OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2		\$ 7,300.00			
1.2.7	MH48A	1200mm	4.3m	1	L.S.	\$ 7,364.33	\$ 7,364.33	15%	\$ 1,104.65
1.2.8	MH47A	1200mm	5.0m	1	L.S.	\$ 7,885.99	\$ 7,885.99	15%	\$ 1,182.90
1.2.9	MH46A	1200mm	4.6m	1	L.S.	\$ 7,559.95	\$ 7,559.95	15%	\$ 1,133.99
1.2.10	MH45A	1200mm	4.3m	1	L.S.	\$ 7,429.54	\$ 7,429.54	15%	\$ 1,114.43
1.2.11	MH44A	1200mm	4.4m	1	L.S.	\$ 7,494.75	\$ 7,494.75	15%	\$ 1,124.21
1.2.12	MH43A	1200mm	4.5m	1	L.S.	\$ 7,559.95	\$ 7,559.95	15%	\$ 1,133.99

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

1.2.13	MH42A	1200mm	4.3m	1	L.S.	\$ 7,364.33	\$ 7,364.33	15%	\$ 1,104.65
1.2.14	MH41A	1200mm	4.1m	1	L.S.	\$ 7,299.12	\$ 7,299.12	15%	\$ 1,094.87
1.2.15	MH40A	1200mm	4.1m	1	L.S.	\$ 7,299.12	\$ 7,299.12	15%	\$ 1,094.87
1.2.16	MH39A	1200mm	4.0m	1	L.S.	\$ 7,233.91	\$ 7,233.91	15%	\$ 1,085.09
<b>SUBTOTAL MANHOLES</b>							<b>\$ 118,424.62</b>		<b>\$ 17,763.69</b>

**1.3 MISCELLANEOUS**

1.3.1	Remove Existing 375mm Plug and Connect New Sanitary Sewer To Existing 375mm Sewer on Sheridan Drive.			1	L.S.	\$ 1,197.12	\$ 1,197.12	15%	\$ 179.57
1.3.2	Supply, Install, and Maintain Positive Dewatering System - Contractor shall prepare dewatering plan and submit for approval prior to construction.								
1.3.2.1	Mobilization / Demobilization			1	L.S.	\$ 28,557.40	\$ 28,557.40	15%	\$ 4,283.61
1.3.2.2	Daily Operation and Maintenance			30	Day	\$ 595.86	\$ 17,875.80	15%	\$ 2,681.37
1.3.2.3	Installation of Well Points and Header Pipe			400	m	\$ 201.99	\$ 80,796.00	15%	\$ 12,119.40
1.3.2.4	Removal of Well Points and Header Pipe			400	m	\$ 75.75	\$ 30,300.00	15%	\$ 4,545.00
1.3.2.5	Supply and Install Discharge Pipe for Dewatering System including Sediment Trap			1	L.S.	\$ 6,615.09	\$ 6,615.09	15%	\$ 992.26
1.3.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1			9	Each	\$ 500.00	\$ 4,500.00	15%	\$ 675.00
1.3.4	Upon completion of the sanitary sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance			1	L.S.	\$ 4,320.00	\$ 4,320.00	15%	\$ 648.00
1.3.5	Upon completion of the sanitary sewer installation, provide all labour, materials to complete an air test to the satisfaction of the Engineer.			1	L.S.	\$ 1,950.00	\$ 1,950.00	15%	\$ 292.50
1.3.6	Upon completion of the sanitary sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Final Acceptance			1	L.S.	\$ 4,480.00	\$ 4,480.00	100%	\$ 4,480.00
<b>SUBTOTAL MISCELLANEOUS</b>							<b>\$ 180,591.41</b>		<b>\$ 30,896.71</b>

<b>TOTAL SANITARY SEWERS</b>					<b>\$ 427,327.53</b>		<b>\$ 67,907.13</b>
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**2.0 STORM SEWERS**

Provide and install storm pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. Any associated dewatering costs shall be included in the unit prices.

**2.1 PIPES**

OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
2.1.1	MH326 - DCBMH325	450mm	1.6m	20.8	m	\$ 193.77	\$ 4,030.42	15%	\$ 604.56
2.1.2	MH326 - CBMH324	1525x 965mm	2.4m	23.8	m	\$ 1,547.49	\$ 36,830.26	15%	\$ 5,524.54
2.1.3	MH326 - CBMH308	825mm	2.5m	44.3	m	\$ 484.20	\$ 21,450.06	15%	\$ 3,217.51
2.1.4	CBMH308 - CBMH307	825mm	2.9m	54.4	m	\$ 484.20	\$ 26,340.48	15%	\$ 3,951.07
2.1.5	CBMH307 - MH306	750mm	3.4m	54.3	m	\$ 420.83	\$ 22,851.07	15%	\$ 3,427.66
2.1.6	MH306 - CBMH305	375mm	2.5m	20.7	m	\$ 186.95	\$ 3,869.87	15%	\$ 580.48
2.1.7	MH281 - DCBMH280	525mm	2.3m	9.3	m	\$ 206.75	\$ 1,922.78	15%	\$ 288.42
2.1.8	DCBMH280 - DCBMH279	525mm	2.3m	8.4	m	\$ 206.75	\$ 1,736.70	15%	\$ 260.51
2.1.9	DCBMH279 - Plug (Block 14)	450mm	1.8m	12.1	m	\$ 205.01	\$ 2,480.62	15%	\$ 372.09
2.1.10	MH281 - CBMH278 c/w 1-Bend	1345x 2110mm	3.0m	31.4	m	\$ 3,098.02	\$ 97,277.83	15%	\$ 14,591.67
2.1.11	CBMH278 - MH277 c/w 45 Deg Bend	1345x 2110mm	3.1m	35.5	m	\$ 3,045.81	\$ 108,126.26	15%	\$ 16,218.94
2.1.12	MH277 - MH276	1050mm	2.2m	4.5	m	\$ 672.15	\$ 3,024.68	15%	\$ 453.70
2.1.13	MH276 - CBMH275	750mm	2.4m	7.9	m	\$ 420.83	\$ 3,324.56	15%	\$ 498.68
2.1.14	CBMH275 - Plug	750mm	2.4m	21.3	m	\$ 439.88	\$ 9,369.44	15%	\$ 1,405.42
2.1.15	MH276 - CBMH274	750mm	2.4m	19.8	m	\$ 420.83	\$ 8,332.43	15%	\$ 1,249.87

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

2.1.16	CBMH274 - CBMH273	750mm	2.5m	62.4	m	\$ 420.83	\$ 26,259.79	15%	\$ 3,938.97
2.1.17	CBMH273 - Plug (Block 13)	525mm	2.2m	9.0	m	\$ 224.66	\$ 2,021.94	15%	\$ 303.29
2.1.18	CBMH273 - CBMH272	600mm	2.5m	47.5	m	\$ 248.22	\$ 11,790.45	15%	\$ 1,768.57
2.1.19	CBMH272 - CBMH271	600mm	2.4m	52.1	m	\$ 248.22	\$ 12,932.26	15%	\$ 1,939.84
2.1.20	CBMH271 - Plug (Block12)	525mm	2.2m	8.8	m	\$ 225.07	\$ 1,980.62	15%	\$ 297.09
2.1.21	CBMH271 - CBMH270	375mm	2.1m	65.7	m	\$ 186.95	\$ 12,282.62	15%	\$ 1,842.39
<b>SHERIDAN DRIVE</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP6.1</b>					
2.1.22	MH306 - CBMH304	675mm	3.5m	15.0	m	\$ 329.79	\$ 4,946.85	15%	\$ 742.03
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
2.1.23	MH277 - CBMH269.1 c/w 1 - Bend	2110x 1345mm	3.0m	10.6	m	\$ 3,980.54	\$ 42,193.72	15%	\$ 6,329.06
<b>SUBTOTAL PIPES</b>							<b>\$ 465,375.69</b>		<b>\$ 69,806.35</b>

**2.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, back arches, benching, orifices and casting adjusted to binder asphalt grade. Manholes are to include wrapping with Mel-Rol or an approved equivalent where joints are within 1.2m of the 2 year seasonal water table.

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
2.2.1	DCBMH325	1500mm	1.5m	1	L.S.	\$ 6,775.83	\$ 6,775.83	15%	\$ 1,016.37
2.2.2	MH329	3600mm	2.4m	1	L.S.	\$ 56,108.97	\$ 56,108.97	15%	\$ 8,416.35
2.2.3	CBMH324	3000mm	2.3m	1	L.S.	\$ 24,655.39	\$ 24,655.39	15%	\$ 3,698.31
2.2.4	CBMH308	1500mm	2.5m	1	L.S.	\$ 7,665.40	\$ 7,665.40	15%	\$ 1,149.81
2.2.5	CBMH307 c/w 200mm dia. Drop Structure	1500mm	3.0m	1	L.S.	\$ 10,346.27	\$ 10,346.27	15%	\$ 1,551.94
2.2.6	MH306 c/w 200mm dia. Drop Structure	2400mm	3.5m	1	L.S.	\$ 21,241.95	\$ 21,241.95	15%	\$ 3,186.29
2.2.7	CBMH305 c/w 200mm dia. Drop Structure	1200mm	2.2m	1	L.S.	\$ 8,566.77	\$ 8,566.77	15%	\$ 1,285.02
2.2.8	DCBMH279	1500mm	1.9m	1	L.S.	\$ 7,072.36	\$ 7,072.36	15%	\$ 1,060.85
2.2.9	DCBMH280	1500mm	2.0m	1	L.S.	\$ 7,171.20	\$ 7,171.20	15%	\$ 1,075.68
2.2.10	MH281	3600mm	3.1m	1	L.S.	\$ 64,868.14	\$ 64,868.14	15%	\$ 9,730.22
2.2.11	CBMH278 (Tee)	1200mm	1.3m	1	L.S.	\$ 8,412.28	\$ 8,412.28	15%	\$ 1,261.84
2.2.12	MH277	3600mm	3.0m	1	L.S.	\$ 58,849.30	\$ 58,849.30	15%	\$ 8,827.40
2.2.13	MH276	1800mm	2.5m	1	L.S.	\$ 10,272.75	\$ 10,272.75	15%	\$ 1,540.91
2.2.14	CBMH275	1500mm	2.3m	1	L.S.	\$ 7,467.72	\$ 7,467.72	15%	\$ 1,120.16
2.2.15	CBMH274	1500mm	2.4m	1	L.S.	\$ 7,566.56	\$ 7,566.56	15%	\$ 1,134.98
2.2.16	CBMH273	1500mm	2.6m	1	L.S.	\$ 7,764.24	\$ 7,764.24	15%	\$ 1,164.64
2.2.17	CBMH272	1200mm	2.4m	1	L.S.	\$ 5,744.11	\$ 5,744.11	15%	\$ 861.62
2.2.18	CBMH271	1500mm	2.4m	1	L.S.	\$ 7,566.56	\$ 7,566.56	15%	\$ 1,134.98
2.2.19	CBMH270	1200mm	2.1m	1	L.S.	\$ 5,548.48	\$ 5,548.48	15%	\$ 832.27
<b>SHERIDAN DRIVE</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP6.1</b>					
2.2.20	CBMH304	1500mm	3.3m	1	L.S.	\$ 8,446.67	\$ 8,446.67	15%	\$ 1,267.00
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
2.2.21	CBMH269.1 (Tee)	1200mm	1.2m	1	L.S.	\$ 8,404.37	\$ 8,404.37	15%	\$ 1,260.66
<b>SUBTOTAL MANHOLES</b>							<b>\$ 350,515.32</b>		<b>\$ 52,577.30</b>

**2.3 SINGLE CATCHBASINS**

Complete - including lead, bends (if required), Tee or connection to manholes, 0.5m sump, castings adjusted to binder asphalt grade and leads on Class "B" bedding. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
2.3.1	SICB325.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.2	CB308.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.3	CB307.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.4	CB305.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.5	CB274.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92



**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

2.3.6	CB273.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.7	CB272.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.8	CB271.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
2.3.9	CB270.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
<b>SHERIDAN DRIVE</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP6.1</b>					
2.3.10	CB306.1	250mm	12.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
2.3.11	CB269.1	250mm	10.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	15%	\$ 643.92
<b>SUBTOTAL SINGLE CATCHBASINS</b>							<b>\$ 47,220.69</b>		<b>\$ 7,083.10</b>

**2.4 MISCELLANEOUS**

2.4.1	Supply and Install Hickenbottom Drain c/w connection to storm sewer (Provisional)	1	Each	\$ 900.00	\$ 900.00	15%	\$ 135.00		
2.4.2	Supply and Install Rigid Pipe Insulation as per Detail 3 on SW4.1	155	m <sup>2</sup>	\$ 65.00	\$ 10,075.00	15%	\$ 1,511.25		
2.4.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	3	Each	\$ 500.00	\$ 1,500.00	15%	\$ 225.00		
2.4.4	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 2,650.00	\$ 2,650.00	15%	\$ 397.50		
2.4.5	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 2,740.00	\$ 2,740.00	15%	\$ 411.00		
2.4.6	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Final Acceptance	1	L.S.	\$ 4,362.58	\$ 4,362.58	100%	\$ 4,362.58		
<b>SUBTOTAL MISCELLANEOUS</b>							<b>\$ 22,227.58</b>		<b>\$ 7,042.33</b>

<b>TOTAL STORM SEWERS</b>							<b>\$ 885,339.28</b>		<b>\$ 136,509.09</b>
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**3.0 GROUNDWATER MANAGEMENT SYSTEM**

Provide and install GWMS pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**3.1 PIPES**

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
3.1.1	G48 - G47	300mm	2.8m	37.5	m	\$ 154.75	\$ 5,803.13	15%	\$ 870.47
3.1.2	G47 - G46	300mm	3.7m	49.2	m	\$ 154.75	\$ 7,613.70	15%	\$ 1,142.06
3.1.3	G46 - G45	300mm	3.7m	29.5	m	\$ 154.75	\$ 4,565.13	15%	\$ 684.77
3.1.4	G45 - G44	300mm	3.7m	22.7	m	\$ 154.75	\$ 3,512.83	15%	\$ 526.92
3.1.5	G44 - G43	300mm	3.6m	57.3	m	\$ 154.75	\$ 8,867.18	15%	\$ 1,330.08
3.1.6	G43 - G42	300mm	3.4m	43.0	m	\$ 154.75	\$ 6,654.25	15%	\$ 998.14
3.1.7	G43 - Plug (Block 13)	300mm	3.5m	11.4	m	\$ 183.48	\$ 2,091.67	15%	\$ 313.75
3.1.8	G42 - G41	300mm	3.3m	49.7	m	\$ 154.75	\$ 7,691.08	15%	\$ 1,153.66
3.1.9	G41 - Plug (Block 12)	300mm	3.2m	11.1	m	\$ 184.26	\$ 2,045.29	15%	\$ 306.79
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
3.1.10	G45 - Plug	300mm	3.4m	19.0	m	\$ 158.53	\$ 3,012.07	15%	\$ 451.81
<b>SUBTOTAL PIPES</b>							<b>\$ 51,856.30</b>		<b>\$ 7,778.45</b>

**3.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching (where required per special provisions), orifices and custom casting adjusted to binder asphalt grade.

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
3.2.1	G48	1200mm	1.8m	1	L.S.	\$ 7,015.40	\$ 7,015.40	15%	\$ 1,052.31
3.2.2	G47	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	15%	\$ 1,022.97

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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3.2.3	G46	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	15%	\$ 1,022.97
3.2.4	G45	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	15%	\$ 1,022.97
3.2.5	G44	1200mm	3.6m	1	L.S.	\$ 6,754.57	\$ 6,754.57	15%	\$ 1,013.19
3.2.6	G43	1200mm	3.5m	1	L.S.	\$ 6,689.36	\$ 6,689.36	15%	\$ 1,003.40
3.2.7	G42	1200mm	3.3m	1	L.S.	\$ 6,624.15	\$ 6,624.15	15%	\$ 993.62
3.2.8	G41	1200mm	3.2m	1	L.S.	\$ 6,493.74	\$ 6,493.74	15%	\$ 974.06
<b>SUBTOTAL MANHOLES</b>							<b>\$ 54,036.56</b>		<b>\$ 8,105.48</b>

**3.3 MISCELLANEOUS**

3.3.1	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	5	Each	\$ 500.00	\$ 2,500.00	15%	\$ 375.00	
3.3.2	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 1,300.00	\$ 1,300.00	15%	\$ 195.00	
3.3.3	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 405.00	\$ 405.00	15%	\$ 60.75	
3.3.4	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 2,117.13	\$ 2,117.13	100%	\$ 2,117.13	
<b>SUBTOTAL MISCELLANEOUS</b>							<b>\$ 6,322.13</b>	<b>\$ 2,747.88</b>
<b>TOTAL GROUNDWATER MANAGEMENT SYSTEM</b>							<b>\$ 112,214.99</b>	<b>\$ 18,631.81</b>

**4.0 WATERMAINS**

Provide and install watermain as specified including all fittings, removal and installation of necessary plugs, connection to existing mains, anodes, restraints, valves, blow off, valve boxes and hydrants; excavation, supporting trenches, Blocking of fittings, laying of pipes, Class "B" bedding, and backfill to be compacted with optimum moisture content to current DGSSMS specifications, and reinstatement of surface, with a minimum 2 m cover. All work to be constructed as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. All dewatering costs to be included in the unit prices.

**4.1 MAINS**

		Dia.						
4.1.1	Ottawa Street	450mm	791	m	\$ 668.90	\$ 529,099.90	15%	\$ 79,364.99
4.1.2	Ottawa Street	300mm	30	m	\$ 444.79	\$ 13,343.70	15%	\$ 2,001.56
4.1.3	Sheridan Drive	200mm	20	m	\$ 297.70	\$ 5,954.00	15%	\$ 893.10
4.1.4	Burkholder Street	300mm	15	m	\$ 376.43	\$ 5,646.45	15%	\$ 846.97
<b>SUBTOTAL MAINS</b>							<b>\$ 554,044.05</b>	<b>\$ 83,106.61</b>

**4.2 VALVES**

Including valve box complete to finished binder asphalt grade and marked with 100 x 100 mm marker painted blue. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

		Dia.						
4.2.1	Sheridan Drive	200mm	1	Each	\$ 2,907.28	\$ 2,907.28	15%	\$ 436.09
4.2.2	Burkholder Street	300mm	1	Each	\$ 5,464.08	\$ 5,464.08	15%	\$ 819.61
<b>SUBTOTAL VALVES</b>							<b>\$ 8,371.36</b>	<b>\$ 1,255.70</b>

**4.3 HYDRANTS**

Including main Tee, 150 mm valve and box, nut extension if required, lead pipe and barrel extensions as required. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

		Tee Size						
4.3.1	Ottawa Street	450x 150mm	5	Each	\$ 6,985.39	\$ 34,926.95	15%	\$ 5,239.04
<b>SUBTOTAL HYDRANTS</b>							<b>\$ 34,926.95</b>	<b>\$ 5,239.04</b>

**4.4 MISCELLANEOUS**

4.4.1	Connect to Existing 450mm dia. Watermain on Woolwich Street (Sta. -0+020 Ottawa Street) with cut-in tee, including all removals and restorations.	1	L.S.	\$ 31,865.30	\$ 31,865.30	100%	\$ 31,865.30
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**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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4.4.2	Connect to Existing 300mm dia. Watermain on Menno Street (Sta. 0+780 Ottawa Street) with cut-in tee, including all removals and restorations.	1	L.S.	\$ 42,179.47	\$ 42,179.47	100%	\$ 42,179.47
4.4.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	4	Each	\$ 500.00	\$ 2,000.00	15%	\$ 300.00
4.4.4	Supply and Install Drain Chamber as per DGSSMS Detail E2-09. Price shall include shop drawings.	1	Each	\$ 12,020.05	\$ 12,020.05	15%	\$ 1,803.01
4.4.5	Supply and Install Air and Vacuum Release Valve Chamber as per DGSSMS Detail E2-12. Price shall include shop drawings.	2	Each	\$ 12,734.54	\$ 25,469.08	15%	\$ 3,820.36
4.4.6	Supply and Install 150mm Water Service to Block 250 c/w (1) Valve, Temporary Blow-Off, and 2x4 Marker	1	L.S.	\$ 10,230.84	\$ 10,230.84	15%	\$ 1,534.63
4.4.7	Conduct Hydrant Flow Test	5	Each	\$ 1,200.00	\$ 6,000.00	15%	\$ 900.00
4.4.8	Provide all Labour, equipment and materials to pressure test, swab, chlorinate, de-chlorinate and two (2) bacteriological tests (24 hours apart) the watermain to satisfy the testing procedures by the Township of Woolwich including backflow preventor valves, temporary and final connections to mains. A copy of the Contractor's Watermain Commissioning Plan is to be submitted to the engineer for review and approval prior to testing.	1	L.S.	\$ 4,000.00	\$ 4,000.00	15%	\$ 600.00
4.4.9	Provide equipment, labour and material to carry out a conductivity test on the watermain and services tracer wire.	1	L.S.	\$ 1,070.00	\$ 1,070.00	15%	\$ 160.50
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 134,834.74</b>		<b>\$ 83,163.27</b>
<b>TOTAL WATERMAINS</b>					<b>\$ 732,177.10</b>		<b>\$ 172,764.62</b>

**5.0 SERVICE CONNECTIONS**

**5.1 SANITARY CONNECTIONS (100 mm dia. pipe)**

5.1.1	Sheridan Drive	32	Each	\$ 980.93	\$ 31,389.76	15%	\$ 4,708.46
<b>SUBTOTAL SANITARY CONNECTIONS (100 mm dia. pipe)</b>					<b>\$ 31,389.76</b>		<b>\$ 4,708.46</b>
<b>TOTAL SERVICE CONNECTIONS</b>					<b>\$ 31,389.76</b>		<b>\$ 4,708.46</b>

**6.0 STORMWATER MANAGEMENT PONDS**

Provide and install storm pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**6.1 PIPES**

SWM FACILITY 2		Dia.	Depth	DWG SW2.1, SW2.2, SW2.3					
6.1.1	HW284 - MH283	825mm	3.1m	14.6	m	\$ 484.20	\$ 7,069.32	15%	\$ 1,060.40
6.1.2	MH283 - SPMH282	825mm	3.1m	8.9	m	\$ 484.20	\$ 4,309.38	15%	\$ 646.41
6.1.3	HW285 - SPMH282	1730x 1090mm	3.1m	13.8	m	\$ 1,916.62	\$ 26,449.36	15%	\$ 3,967.40
6.1.4	SPMH282 - MH281	2110x 1345mm	3.1m	20.9	m	\$ 2,648.28	\$ 55,349.05	15%	\$ 8,302.36
6.1.5	HW286 - MH287	450mm	3.4m	18.1	m	\$ 197.89	\$ 3,581.81	15%	\$ 537.27
6.1.6	HW288 - MH287	750mm	3.4m	9.4	m	\$ 455.53	\$ 4,281.98	15%	\$ 642.30
6.1.7	MH287 - MH287.1	375mm	3.5m	15.9	m	\$ 191.01	\$ 3,037.06	15%	\$ 455.56
6.1.8	MH287.1 - Gallery (HDPE)	600mm	3.6m	1.0	m	\$ 252.82	\$ 252.82	15%	\$ 37.92
6.1.9	MH287.2 - Gallery (HDPE)	600mm	3.6m	1.0	m	\$ 252.82	\$ 252.82	15%	\$ 37.92
6.1.10	G48 - Gallery (HDPE)	300mm	1.8m	1.0	m	\$ 200.20	\$ 200.20	15%	\$ 30.03
SWM FACILITY 3		Dia.	Depth	DWG SW3.1, SW3.2, SW3.3					
6.1.5	HW331 - SPMH327	1200x 900mm	2.5m	4.5	m	\$ 1,387.83	\$ 6,245.24	15%	\$ 936.79
6.1.6	SPMH327 - MH326	1525x 965mm	2.5m	4.8	m	\$ 1,547.49	\$ 7,427.95	15%	\$ 1,114.19
6.1.7	HW330 - MH329 c/w Bend	675mm	2.2m	7.4	m	\$ 329.79	\$ 2,440.45	15%	\$ 366.07
6.1.8	MH329 - MH328	675mm	2.0m	11.4	m	\$ 329.79	\$ 3,759.61	15%	\$ 563.94
6.1.9	MH328 - SPMH327	675mm	2.3m	26.1	m	\$ 329.79	\$ 8,607.52	15%	\$ 1,291.13

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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6.1.10	HW332 - MH333	450mm	3.2m	19.1	m	\$ 197.89	\$ 3,779.70	15%	\$ 566.95
6.1.11	HW334 - MH333	675mm	3.2m	48.2	m	\$ 335.10	\$ 16,151.82	15%	\$ 2,422.77
6.1.12	HW333.1 - MH333	375mm	3.2m	2.6	m	\$ 191.01	\$ 496.63	15%	\$ 74.49
6.1.13	HW333.1 - Gallery (HDPE)	300mm	3.1m	1.0	m	\$ 200.20	\$ 200.20	15%	\$ 30.03
6.1.14	HW333.2 - Gallery (HDPE)	300mm	2.8m	1.0	m	\$ 200.20	\$ 200.20	15%	\$ 30.03
<b>SUBTOTAL PIPES</b>							<b>\$ 154,093.10</b>		<b>\$ 23,113.97</b>

**6.2 STRUCTURES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching, orifices and casting adjusted to finished grade.

SWM FACILITY 2		Dia.	Depth	DWG SW2.1, SW2.2, SW2.3					
6.2.1	SPMH282 as per Detail 2 on DWG SW2.2	3000x 2400mm	3.1m	1	L.S.	\$ 43,758.23	\$ 43,758.23	15%	\$ 6,563.73
6.2.2	MH283	2400mm	3.0m	1	L.S.	\$ 17,898.19	\$ 17,898.19	15%	\$ 2,684.73
6.2.3	HW284 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 24,085.28	\$ 24,085.28	15%	\$ 3,612.79
6.2.4	HW285 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 28,525.26	\$ 28,525.26	15%	\$ 4,278.79
6.2.5	HW286 as per OPSD 804.030 c/w Rodent Grate and Handrail	N/A	N/A	1	L.S.	\$ 11,339.20	\$ 11,339.20	15%	\$ 1,700.88
6.2.6	MH287 as per Detail 5 on DWG SW2.3	2400mm	3.4m	1	L.S.	\$ 41,752.57	\$ 41,752.57	15%	\$ 6,262.89
6.2.7	MH287.1	1200mm	3.6m	1	L.S.	\$ 6,681.75	\$ 6,681.75	15%	\$ 1,002.26
6.2.8	MH287.2	1200mm	3.5m	1	L.S.	\$ 6,681.75	\$ 6,681.75	15%	\$ 1,002.26
6.2.9	HW288 as per OPSD 804.040 c/w Modified Chute Blocks (250mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 22,310.33	\$ 22,310.33	15%	\$ 3,346.55
SWM FACILITY 3		Dia.	Depth	DWG SW3.1, SW3.2, SW3.3					
6.2.5	SPMH327 as per Detail 3 on DWG SW3.2	2400x 1800mm	2.5m	1	L.S.	\$ 32,385.60	\$ 32,385.60	15%	\$ 4,857.84
6.2.6	MH328	1500mm	2.2m	1	L.S.	\$ 7,334.18	\$ 7,334.18	15%	\$ 1,100.13
6.2.7	MH329	1500mm	1.8m	1	L.S.	\$ 6,938.82	\$ 6,938.82	15%	\$ 1,040.82
6.2.8	HW330 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 21,773.65	\$ 21,773.65	15%	\$ 3,266.05
6.2.9	HW331 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 24,252.11	\$ 24,252.11	15%	\$ 3,637.82
6.2.10	HW332 as per OPSD 804.030 c/w Rodent Grate and Handrail	N/A	N/A	1	L.S.	\$ 11,339.20	\$ 11,339.20	15%	\$ 1,700.88
6.2.11	MH333 as per Detail 6 on DWG SW3.3	2400mm	4.1m	1	L.S.	\$ 38,197.99	\$ 38,197.99	15%	\$ 5,729.70
6.2.12	MH333.1	1200mm	3.1m	1	L.S.	\$ 6,418.63	\$ 6,418.63	15%	\$ 962.79
6.2.13	MH333.2	1200mm	2.8m	1	L.S.	\$ 6,155.51	\$ 6,155.51	15%	\$ 923.33
<b>SUBTOTAL STRUCTURES</b>							<b>\$ 357,828.25</b>		<b>\$ 53,674.24</b>

**6.3 POND WORKS**

SWM FACILITY 2		DWG SW2.1, SW2.2, SW2.3					
6.3.1	Supply and Install End of Pipe Infiltration Gallery, ADS Stormtech DC-780 Subsurface Chamber System or approved equivalent, as per Detail 4 on DWG SW2.3.	1	L.S.	\$ 287,313.80	\$ 287,313.80	15%	\$ 43,097.07
6.3.2	Supply and Install GWMS Infiltration Gallery, ADS Stormtech SC-310 Subsurface Chamber System or approved equivalent, as per Detail 5 on DWG SW3.3.	1	L.S.	\$ 50,990.65	\$ 50,990.65	15%	\$ 7,648.60
6.3.3	Supply and Install 300mm HDPE Culverts	18	m	\$ 170.70	\$ 3,072.60	15%	\$ 460.89
6.3.4	Supply and Install Geomembrane Liner (Layfield RPE 25) c/w Backfill as per Detail 1C on DWG SW4.1	14,125	m <sup>2</sup>	\$ 31.24	\$ 441,265.00	15%	\$ 66,189.75
6.3.5	Construct 500mm thick Concrete Forebay Weir, as per Detail 6 DWG SW2.3	1	L.S.	\$ 19,577.42	\$ 19,577.42	15%	\$ 2,936.61

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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6.3.6	Construct 500mm thick Concrete Overflow Weir, as per Detail 7 DWG SW2.3	1	L.S.	\$ 20,677.42	\$ 20,677.42	15%	\$ 3,101.61
6.3.7	Supply and Install 300mm Gabion Mat, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	240	m <sup>2</sup>	\$ 144.33	\$ 34,639.20	15%	\$ 5,195.88
6.3.8	Supply and Install 450mm 300mm Rip Rap Pad c/w Geotextile Underlay (Terrafix 400R or Equivalent)	165	m <sup>2</sup>	\$ 105.94	\$ 17,480.10	15%	\$ 2,622.02
6.3.9	Supply and Install 450mm Rip Rap Outlet Swale, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	190	m <sup>2</sup>	\$ 105.94	\$ 20,128.60	15%	\$ 3,019.29
6.3.10	Supply, Place, and Compact Granular B Type II in Forebay (300mm Deep)	490	m <sup>2</sup>	\$ 18.59	\$ 9,109.10	15%	\$ 1,366.37
6.3.11	Supply and Install Articulated Concrete Block Mat (CCG2) or Approved Equivalent	170	m <sup>2</sup>	\$ 135.90	\$ 23,103.00	15%	\$ 3,465.45
6.3.12	Supply and Install Articulated Concrete Block Mat (CC-35) or Approved Equivalent, for the Overland Flow Route as per Detail 1 on Drawing SW2.2.	150	m <sup>2</sup>	\$ 147.71	\$ 22,156.50	15%	\$ 3,323.48
6.3.13	Construct Articulated Concrete Block Mat Access Road as per Detail 2C DWG SW4.1 including all excavation, 450mm Granular B, 150mm Granular A, and CCG2 Cable Concrete	265	m <sup>2</sup>	\$ 128.26	\$ 33,988.90	15%	\$ 5,098.34
6.3.14	Construct 5m Wide Asphalt Access Road, as per Detail 2B DWG SW4.1, including all excavation, 450mm Granular B, 150mm Granular A, 60mm HL4 Asphalt.	3,790	m <sup>2</sup>	\$ 57.55	\$ 218,114.50	15%	\$ 32,717.18
6.3.15	Supply, Place and Compact 40mm HL3 Asphalt on 4m Wide Access Road (2027).	3,790	m <sup>2</sup>	\$ 15.65	\$ 59,313.50	15%	\$ 8,897.03
6.3.16	Load, Haul, Place, and Fine grade 450mm 300mm Topsoil in Pond Landscaping Areas from Onsite Stockpile	26,800	m <sup>2</sup>	\$ 4.23	\$ 113,364.00	15%	\$ 17,004.60
6.3.17	Supply and Place Hydroseed in Zone 1 as per Dougan & Associates DWG L1 and L3	1,300	m <sup>2</sup>	\$ 0.91	\$ 1,183.00	15%	\$ 177.45
6.3.18	Supply and Place Hydroseed in Zone 2 as per Dougan & Associates DWG L1 and L3	8,700	m <sup>2</sup>	\$ 0.91	\$ 7,917.00	15%	\$ 1,187.55
6.3.19	Supply and Place Hydroseed in Zone 3 as per Dougan & Associates DWG L1 and L3	16,800	m <sup>2</sup>	\$ 1.11	\$ 18,648.00	15%	\$ 2,797.20
6.3.20	Supply and Install Lockable Galvanized Steel Swing P-Gate and Warning Sign as per Township of Woolwich Detail 503	8	Each	\$ 2,373.35	\$ 18,986.80	15%	\$ 2,848.02
6.3.21	Supply and Install Perimeter 1.5m High Black Vinyl Chain Link Fence	278	m	\$ 222.19	\$ 61,768.82	15%	\$ 9,265.32
6.3.22	Install Township supplied Benchmark Tablet on the face of Headwalls	4	Each	\$ 219.37	\$ 877.48	15%	\$ 131.62
6.3.23	Supply and Install Warning Sign as per Township of Woolwich Detail 503	2	Each	\$ 499.92	\$ 999.84	15%	\$ 149.98
6.3.24	Supply and Install SWM Facility Educational Sign as per Detail on PM1.1	2	Each	\$ 807.95	\$ 1,615.90	15%	\$ 242.39
6.3.25	Supply and Install No Winter Maintenance Sign as per Detail on PM1.1	2	Each	\$ 499.92	\$ 999.84	15%	\$ 149.98
<b>SWM FACILITY 3</b>		<b>DWG SW3.1, SW3.2, SW3.3</b>					
6.3.26	Supply and Install End of Pipe Infiltration Gallery, ADS Stormtech SC-310 Subsurface Chamber System or approved equivalent, as per Detail 5 on DWG SW3.3.	1	L.S.	\$ 60,605.11	\$ 60,605.11	15%	\$ 9,090.77
6.3.27	Supply and Install Geomembrane Liner (Layfield RPE 25) c/w Backfill as per Detail 1C on DWG SW4.1	2,870	m <sup>2</sup>	\$ 32.08	\$ 92,069.60	15%	\$ 13,810.44
6.3.28	Construct 500mm thick Concrete Forebay Weir, as per Detail 6 DWG SW3.3	1	L.S.	\$ 32,677.42	\$ 32,677.42	15%	\$ 4,901.61
6.3.29	Construct 500mm thick Concrete Overflow Weir, as per Detail 7 DWG SW3.3	1	L.S.	\$ 17,377.42	\$ 17,377.42	15%	\$ 2,606.61
6.3.30	Supply and Install 300mm Gabion Mat, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	253	m <sup>2</sup>	\$ 144.92	\$ 36,664.76	15%	\$ 5,499.71
6.3.31	Supply and Install 450mm Rip Rap Pad c/w Geotextile Underlay (Terrafix 400R or Equivalent)	116	m <sup>2</sup>	\$ 105.94	\$ 12,289.04	15%	\$ 1,843.36
6.3.32	Supply and Install Articulated Concrete Block Mat (CCG2) or Approved Equivalent	150	m <sup>2</sup>	\$ 138.74	\$ 20,811.00	15%	\$ 3,121.65
6.3.33	Supply and Install Articulated Concrete Block Mat (CC-35) or Approved Equivalent	70	m <sup>2</sup>	\$ 172.44	\$ 12,070.80	15%	\$ 1,810.62
6.3.34	Supply, Place, and Compact Granular B Type II in Forebay (900mm Deep)	35	m <sup>2</sup>	\$ 18.59	\$ 650.65	15%	\$ 97.60
6.3.35	Supply, Place, and Compact Granular B Type II in Wet Pond (900mm Deep)	200	m <sup>2</sup>	\$ 18.59	\$ 3,718.00	15%	\$ 557.70
6.3.36	Construct Articulated Concrete Block Mat Access Road as per Detail 2C DWG SW4.1 including all excavation, 450mm Granular B, 150mm Granular A, and CCG2 Cable Concrete	75	m <sup>2</sup>	\$ 154.55	\$ 11,591.25	15%	\$ 1,738.69
6.3.37	Construct 4m Wide Asphalt Access Road, as per Detail 2B DWG SW4.1, including all excavation, 450mm Granular B, 150mm Granular A, 60mm HL4 Asphalt.	180	m <sup>2</sup>	\$ 75.52	\$ 13,593.60	15%	\$ 2,039.04
6.3.38	Supply, Place and Compact 40mm HL3 Asphalt on 4m Wide Access Road (2027).	180	m <sup>2</sup>	\$ 27.27	\$ 4,908.60	15%	\$ 736.29

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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6.3.39	Load, Haul, Place, and Finegrade 450mm 300mm-Topsoil in Pond Landscaping Areas from Onsite Stockpile	7,690	m <sup>2</sup>	\$ 4.23	\$ 32,528.70	15%	\$ 4,879.31
6.3.40	Supply and Place Hydroseed in Zone 1 as per Dougan & Associates DWG L1 and L4	650	m <sup>2</sup>	\$ 0.91	\$ 591.50	15%	\$ 88.73
6.3.41	Supply and Place Hydroseed in Zone 2 as per Dougan & Associates DWG L1 and L4	1,240	m <sup>2</sup>	\$ 0.91	\$ 1,128.40	15%	\$ 169.26
6.3.42	Supply and Place Hydroseed in Zone 3 as per Dougan & Associates DWG L1 and L4	5,800	m <sup>2</sup>	\$ 1.11	\$ 6,438.00	15%	\$ 965.70
6.3.43	Supply and Install Lockable Galvanized Steel Swing P-Gate and Warning Sign as per Township of Woolwich Detail 503	4	Each	\$ 2,373.35	\$ 9,493.40	15%	\$ 1,424.01
6.3.44	Supply and Install Perimeter 1.5m High Black Vinyl Chain Link Fence	395	m	\$ 185.83	\$ 73,402.85	15%	\$ 11,010.43
6.3.45	Install Township supplied Benchmark Tablet on the face of Headwalls	4	Each	\$ 219.37	\$ 877.48	15%	\$ 131.62
6.3.46	Supply and Install Warning Sign as per Township of Woolwich Detail 503	2	Each	\$ 499.92	\$ 999.84	15%	\$ 149.98
6.3.47	Supply and Install SWM Facility Educational Sign as per Detail on PM1.1	1	Each	\$ 807.95	\$ 807.95	15%	\$ 121.19
6.3.48	Supply and Install No Winter Maintenance Sign as per Detail on PM1.1	1	Each	\$ 398.93	\$ 398.93	15%	\$ 59.84
<b>SUBTOTAL POND WORKS</b>					<b>\$ 1,932,985.27</b>		<b>\$ 289,947.79</b>

**6.4 MISCELLANEOUS**

6.4.1	Supply and Install Pipe Insulation as per Detail 3 on SW4.1	346	m <sup>2</sup>	\$ 65.00	\$ 22,490.00	15%	\$ 3,373.50
6.4.2	Supply and Install 51m Long Pre-cast Concrete Retaining Wall at HW334 as shown on Drawing LG1.1.	80	Face m <sup>2</sup>	\$ 585.76	\$ 46,860.80	15%	\$ 7,029.12
6.4.3	Pre-cast Retaining Wall Certification and building permit for each wall, including closing of permit once the walls have been constructed and certified.	1	L.S.	\$ 3,787.26	\$ 3,787.26	15%	\$ 568.09
6.4.4	Supply and Install 1.5m High Black Vinyl Chain Link Fence on Retaining Wall	51	m	\$ 222.19	\$ 11,331.69	15%	\$ 1,699.75
6.4.5	Supply, Install, and Maintain Positive Dewatering System for Pond #3 - Contractor shall prepare dewatering plan and submit for approval prior to construction.					15%	\$ -
6.4.5.1	Mobilization / Demobilization	1	L.S.	\$ 29,018.67	\$ 29,018.67	15%	\$ 4,352.80
6.4.5.2	Daily Operation and Maintenance	30	Day	\$ 595.86	\$ 17,875.80	15%	\$ 2,681.37
6.4.5.3	Installation of Well Points and Header Pipe	350	m	\$ 201.99	\$ 70,696.50	15%	\$ 10,604.48
6.4.5.4	Removal of Well Points and Header Pipe	350	m	\$ 75.75	\$ 26,512.50	15%	\$ 3,976.88
6.4.5.5	Supply and Install Discharge Pipe for Dewatering System including Sediment Trap	1	L.S.	\$ 6,615.09	\$ 6,615.09	15%	\$ 992.26
6.4.6	Connect to Existing HW334	1	L.S.	\$ 1,271.67	\$ 1,271.67	15%	\$ 190.75
6.4.7	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 1,100.00	\$ 1,100.00	15%	\$ 165.00
6.4.8	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 1,275.00	\$ 1,275.00	15%	\$ 191.25
6.4.9	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - End of Maintenance Period	1	L.S.	\$ 1,787.69	\$ 1,787.69	15%	\$ 268.15
6.4.10	Clean Out SWM Facilities 2 & 3 Sediment. Sediment to be removed 2 times. - Estimated Value	1	L.S.	\$ 500,000.00	\$ 500,000.00	100%	\$ 500,000.00
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 740,622.67</b>		<b>\$ 536,093.40</b>

**6.5 PLANTING / LANDSCAPING**

SWM FACILITY 2		DWG SW2.1, SW2.2, SW2.3					
6.5.1	Deciduous Trees - 50mm Cal.	175	Each	\$ 900.00	\$ 157,500.00	15%	\$ 23,625.00
6.5.2	Coniferous Trees - 150cm Ht.	96	Each	\$ 900.00	\$ 86,400.00	15%	\$ 12,960.00
6.5.3	Deciduous Trees - 2 Gal.	766	Each	\$ 45.00	\$ 34,470.00	15%	\$ 5,170.50
6.5.4	Deciduous Shrubs - 2 Gal.	1038	Each	\$ 30.00	\$ 31,140.00	15%	\$ 4,671.00
6.5.5	Herbaceous - Plugs	1140	Each	\$ 15.00	\$ 17,100.00	15%	\$ 2,565.00
6.5.6	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 38,221.00	\$ 38,221.00	15%	\$ 5,733.15

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
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SWM FACILITY 3 & WETLAND COMPENSATION		DWG SW3.1, SW3.2, SW3.3					
6.5.8	Deciduous Trees - 50mm Cal.	43	Each	\$ 900.00	\$ 38,700.00	15%	\$ 5,805.00
6.5.9	Deciduous Trees - 2 Gal.	200	Each	\$ 45.00	\$ 9,000.00	15%	\$ 1,350.00
6.5.10	Coniferous Trees - 2 Gal.	26	Each	\$ 45.00	\$ 1,170.00	15%	\$ 175.50
6.5.11	Deciduous Shrubs - 2 Gal.	420	Each	\$ 30.00	\$ 12,600.00	15%	\$ 1,890.00
6.5.12	Herbaceous - Plugs	330	Each	\$ 15.00	\$ 4,950.00	15%	\$ 742.50
6.5.13	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 8,234.50	\$ 8,234.50	15%	\$ 1,235.18
<b>SUBTOTAL PLANTING / LANDSCAPING</b>					<b>\$ 439,485.50</b>		<b>\$ 65,922.83</b>

<b>TOTAL STORMWATER MANAGEMENT PONDS</b>					<b>\$ 3,625,014.79</b>		<b>\$ 968,752.22</b>
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**7.0 PRIMARY ROADWORKS**

**7.1 FINE GRADING**

Shape to correct cross-section, fine grade and compact (95% Standard Proctor) the sub-grade of the roads, R.O.W. including boulevards, and the backfilling of the curbs.

7.1.1	Ottawa Street	27,000	m <sup>2</sup>	\$ 0.76	\$ 20,520.00	15%	\$ 3,078.00
<b>SUBTOTAL FINE GRADING</b>					<b>\$ 20,520.00</b>		<b>\$ 3,078.00</b>

**7.2 GRANULAR "B"**

Supply, place, shape and compact (100% Standard Proctor) Granular B Type 2 sub base to a final thickness as noted, extending 300 mm behind the back of curb.

		Depth						
7.2.1	Ottawa Street	600mm	13,845	Tonne	\$ 17.33	\$ 239,933.85	15%	\$ 35,990.08
<b>SUBTOTAL GRANULAR "B"</b>					<b>\$ 239,933.85</b>		<b>\$ 35,990.08</b>	

**7.3 GRANULAR "A"**

Supply, place, shape and compact (100% Standard Proctor) Granular "A" gravel base to a final thickness as noted.

		Depth						
7.3.1	Ottawa Street	210mm	4,850	Tonne	\$ 19.06	\$ 92,441.00	15%	\$ 13,866.15
<b>SUBTOTAL GRANULAR "A"</b>					<b>\$ 92,441.00</b>		<b>\$ 13,866.15</b>	

**7.4 CURB AND GUTTER**

7.4.1	Ottawa Street	1,500	m	\$ 49.84	\$ 74,760.00	15%	\$ 11,214.00
<b>SUBTOTAL CURB AND GUTTER</b>					<b>\$ 74,760.00</b>		<b>\$ 11,214.00</b>

**7.5 BINDER ASPHALT**

Supply, place and compact hot mixed, binder coarse asphalt (HL4 HL8) to a final thickness as noted, including temporary asphalt curb at all catchbasins.

		Depth						
7.5.1	Ottawa Street - 2 Lifts	100mm	1,860	Tonne	\$ 88.87	\$ 165,298.20	15%	\$ 24,794.73
<b>SUBTOTAL BINDER ASPHALT</b>					<b>\$ 165,298.20</b>		<b>\$ 24,794.73</b>	

**7.6 TEMPORARY LINE PAINTING AND FIRST STAGE SIGNAGE**

OTTAWA STREET		DWG PM1.1, PM1.2, PM1.3					
7.6.1	60cm White Stop Bar	10	m	\$ 16.16	\$ 161.60	15%	\$ 24.24
7.6.2	10cm Yellow Solid Line	30	m	\$ 2.32	\$ 69.60	15%	\$ 10.44
7.6.3	10cm White Solid Line	23	m	\$ 2.32	\$ 53.36	15%	\$ 8.00
7.6.4	Ra-1 c/w Street Signs on a U-Channel Post	1	Each	\$ 600.91	\$ 600.91	15%	\$ 90.14
7.6.5	Ra-1 c/w Street Signs, 1- Ra-1t and 1- Ra-1tt on a U-Channel Post	1	Each	\$ 681.71	\$ 681.71	15%	\$ 102.26
<b>SUBTOTAL TEMPORARY LINE PAINTING AND FIRST STAGE SIGNAGE</b>					<b>\$ 1,567.18</b>		<b>\$ 235.08</b>

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

**7.7 MISCELLANEOUS**

7.7.1	Supply and Install 150mm Subdrains along full road length c/w connection to CB/DCB/CBMH/DCBMH	1,500	m	\$ 32.86	\$ 49,290.00	15%	\$ 7,393.50
7.7.2	Supply and Install "Unassumed Road Use at Own Risk" Signs. (Provisional)	2	Each	\$ 398.93	\$ 797.86	15%	\$ 119.68
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 50,087.86</b>		<b>\$ 7,513.18</b>

<b>TOTAL PRIMARY ROADWORKS</b>					<b>\$ 644,608.09</b>		<b>\$ 96,691.21</b>
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**8.0 SECONDARY ROADWORKS**

**8.1 STRUCTURE ADJUSTMENTS**

<b>8.1.1</b>	<b>Adjust MH to finished grade including base asphalt restoration.</b>						
8.1.1.1	Ottawa Street	29	Each	\$ 25.25	\$ 732.25	100%	\$ 732.25
<b>8.1.2</b>	<b>Adjust CBMH to finished grade including base asphalt restoration.</b>						
8.1.2.1	Ottawa Street	12	Each	\$ 605.96	\$ 7,271.52	100%	\$ 7,271.52
<b>8.1.3</b>	<b>Adjust DCBMH to finished grade including base asphalt restoration.</b>						
8.1.3.1	Ottawa Street	2	Each	\$ 605.96	\$ 1,211.92	100%	\$ 1,211.92
<b>8.1.4</b>	<b>Adjust CB to finished grade including base asphalt restoration.</b>						
8.1.4.1	Ottawa Street	9	Each	\$ 605.96	\$ 5,453.64	100%	\$ 5,453.64
<b>8.1.5</b>	<b>Adjust and raise existing mainline valve boxes.</b>						
8.1.5.1	Ottawa Street	8	Each	\$ 353.48	\$ 2,827.84	100%	\$ 2,827.84
<b>SUBTOTAL STRUCTURE ADJUSTMENTS</b>					<b>\$ 17,497.17</b>		<b>\$ 17,497.17</b>

**8.2 SURFACE ASPHALT**

Supply, place and compact virgin, hot mixed, hot laid, surface coarse asphalt (HL3) to a final thickness as noted, including placement of tack coat on binder asphalt.

		Depth					
8.2.1	Ottawa Street	45mm	840	Tonne	\$ 110.08	\$ 92,467.20	100% \$ 92,467.20
<b>SUBTOTAL SURFACE ASPHALT</b>					<b>\$ 92,467.20</b>		<b>\$ 92,467.20</b>

**8.3 SIGNAGE - SECOND STAGE**

	OTTAWA STREET	DWG PM1.1, PM1.2, PM1.3					
8.3.1	RB-71 Shared Pathway on Steel Post	5	Each	\$ 378.73	\$ 1,893.65	100%	\$ 1,893.65
8.3.2	RB-51 No Parking on Steel Post	24	Each	\$ 323.18	\$ 7,756.32	100%	\$ 7,756.32
8.3.3	Wa-74 Bump Sign on Steel Post	5	Each	\$ 398.93	\$ 1,994.65	100%	\$ 1,994.65
<b>SUBTOTAL SIGNAGE - SECOND STAGE</b>					<b>\$ 11,644.62</b>		<b>\$ 11,644.62</b>

**8.4 LINE PAINTING DURABLE**

	OTTAWA STREET	DWG PM1.1, PM1.2, PM1.3					
8.4.1	60cm White Stop Bar - Durable	10	m	\$ 50.50	\$ 505.00	100%	\$ 505.00
8.4.2	10cm Yellow Solid Line - Durable	30	m	\$ 10.10	\$ 303.00	100%	\$ 303.00
8.4.3	10cm White Solid Line - Durable	23	m	\$ 10.10	\$ 232.30	100%	\$ 232.30
<b>SUBTOTAL LINE PAINTING DURABLE</b>					<b>\$ 1,040.30</b>		<b>\$ 1,040.30</b>

**8.5 CONCRETE WORKS**

<b>8.5.1</b>	<b>Supply and Install New 600.040 Curb and Gutter, including removal and disposal off site of existing asphalt curb at CB,DCB, CBMH and DCBMH, installation of drain markers, and all asphalt and boulevard restoration.</b>						
8.5.1.1	Ottawa Street	40	m	\$ 151.49	\$ 6,059.60	100%	\$ 6,059.60



**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

<b>8.5.2</b>	<b>Supply and Install 2.4m Wide Concrete MUP, 125mm thick, c/w 150mm thick Granular 'A' base.</b>						
8.5.2.1	Ottawa Street	1,700	m <sup>2</sup>	\$ 73.75	\$ 125,375.00	100%	\$ 125,375.00
<b>8.5.3</b>	<b>Supply and Install Region of Waterloo Concrete Transit Pad.</b>						
8.5.3.1	Ottawa Street	20	m <sup>2</sup>	\$ 109.45	\$ 2,189.00	100%	\$ 2,189.00
<b>8.5.4</b>	<b>Supply and Install Truncated Dome Detectable Warning Plates (RMW STD. DWG 224) (0.61m x 0.61m)</b>						
8.5.4.1	Ottawa Street	6	Each	\$ 227.24	\$ 1,363.44	100%	\$ 1,363.44
<b>SUBTOTAL CONCRETE WORKS</b>					<b>\$ 134,987.04</b>		<b>\$ 134,987.04</b>

**8.6 TOPSOIL AND SOD**

Excavate, screen, load, haul, and place 450mm thick topsoil and sod in boulevards.

8.6.1	Ottawa Street	17,330	m <sup>2</sup>	\$ 13.33	\$ 231,008.90	100%	\$ 231,008.90
8.6.2	Provide Maintenance of Sod as Required for Duration of 2 Year Warranty Period	1	L.S.	\$ 30,623.00	\$ 30,623.00	100%	\$ 30,623.00
<b>SUBTOTAL TOPSOIL AND SOD</b>					<b>\$ 261,631.90</b>		<b>\$ 261,631.90</b>

**8.7 BOULEVARD TREES**

8.7.1	Deciduous Trees - 50mm Cal.	131	Each	\$ 900.00	\$ 117,900.00	100%	\$ 117,900.00
8.7.3	Provide Maintenance of Trees as Required for Duration of 2 Year Warranty Period	1	L.S.	\$ 11,790.00	\$ 11,790.00	100%	\$ 11,790.00
<b>SUBTOTAL BOULEVARD TREES</b>					<b>\$ 129,690.00</b>		<b>\$ 129,690.00</b>

**8.8 BUFFER PSW 2 LANDSCAPING**

8.8.1	Deciduous Trees - 50mm Cal.	114	Each	\$ 900.00	\$ 102,600.00	100%	\$ 102,600.00
8.8.2	Coniferous Trees - 150cm Ht.	92	Each	\$ 900.00	\$ 82,800.00	100%	\$ 82,800.00
8.8.3	Deciduous Trees - 2 Gal.	355	Each	\$ 45.00	\$ 15,975.00	100%	\$ 15,975.00
8.8.4	Coniferous Trees - 2 Gal.	35	Each	\$ 45.00	\$ 1,575.00	100%	\$ 1,575.00
8.8.5	Deciduous Shrubs - 2 Gal.	1,500	Each	\$ 30.00	\$ 45,000.00	100%	\$ 45,000.00
8.8.6	Seeding Native - Zones 1 & 2	27,761	Each	\$ 2.00	\$ 55,522.00	100%	\$ 55,522.00
8.8.7	Seeding Nurse Crop - Zones 1 & 2	27,761	Each	\$ 0.50	\$ 13,880.50	100%	\$ 13,880.50
8.8.8	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 31,735.25	\$ 31,735.25	100%	\$ 31,735.25
<b>SUBTOTAL BUFFER PSW 2 LANDSCAPING</b>					<b>\$ 349,087.75</b>		<b>\$ 349,087.75</b>

**8.9 MISCELLANEOUS**

<b>8.9.1</b>	<b>Supply and Install Asphalt Speed Control Humps, as per the Detail shown on DWG MS2.1.</b>						
8.9.1.1	Ottawa Street	6	Each	\$ 3,605.48	\$ 21,632.88	100%	\$ 21,632.88
8.9.2	Existing Menno Street Removals and Earthworks						
8.9.3	Remove and Dispose of Existing Asphalt Off-site	2,725	m <sup>2</sup>	\$ 4.68	\$ 12,753.00	100%	\$ 12,753.00
8.9.4	Remove and Dispose of Existing Road Signs Off-site	12	Each	\$ 153.75	\$ 1,845.00	100%	\$ 1,845.00
8.9.5	Onsite Cut/Fill - Fill to be placed in Parcel 4 and used to fill the existing sediment basins	26,208	m <sup>3</sup>	\$ 5.95	\$ 155,937.60	100%	\$ 155,937.60
8.9.6	Remove and Dispose of Existing 300mm dia. Watermain Off-site	400	m	\$ 23.33	\$ 9,332.00	100%	\$ 9,332.00
8.9.7	Remove and Dispose of Existing 300mm dia. Air and Vacuum Release Valve Off-site	1	Each	\$ 997.24	\$ 997.24	100%	\$ 997.24
8.9.8	Remove and Dispose of Existing 300mm dia. Valve and Box Off-site	2	Each	\$ 283.28	\$ 566.56	100%	\$ 566.56
8.9.9	Remove and Dispose of Existing Hydrant Off-site	1	Each	\$ 333.28	\$ 333.28	100%	\$ 333.28
8.9.10	Remove and Dispose of Existing Gas Main Off-site	760	m	\$ 23.33	\$ 17,730.80	100%	\$ 17,730.80

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	LOC %	LETTER OF CREDIT AMOUNT
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Letter of credit amounts shown are calculated based on the terms noted in Section 11.23.2 of this agreement.

8.9.11	Remove and Dispose of Existing Bell Off-site	392	m	\$ 23.33	\$ 9,145.36	100%	\$ 9,145.36
8.9.12	Remove and Dispose of Existing Bell Pedestal Off-site	3	Each	\$ 266.62	\$ 799.86	100%	\$ 799.86
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 231,073.58</b>		<b>\$ 231,073.58</b>
<b>TOTAL SECONDARY ROADWORKS</b>					<b>\$ 1,229,119.56</b>		<b>\$ 1,229,119.56</b>

**9.0 HYDRO AND STREET LIGHTING**

9.1	Street Lights	16	Each	\$ 10,000.00	\$ 160,000.00	15%	\$ 24,000.00
9.2	Hydro Crossings (Allowance)	1	Allow.	\$ 55,000.00	\$ 55,000.00	15%	\$ 8,250.00
<b>TOTAL HYDRO AND STREET LIGHTING</b>					<b>\$ 215,000.00</b>		<b>\$ 32,250.00</b>

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'H' COST ESTIMATE**

**SUMMARY**

<b>PART</b>	<b>DESCRIPTION</b>	<b>TOTAL CONSTRUCTION COST</b>	<b>TOTAL LETTER OF CREDIT</b>
GR1.0	PROJECT START UP	\$ 62,079.97	\$ 19,512.00
1.0	SANITARY SEWERS	\$ 427,327.53	\$ 67,907.13
2.0	STORM SEWERS	\$ 885,339.28	\$ 136,509.09
3.0	GROUNDWATER MANAGEMENT SYSTEM	\$ 112,214.99	\$ 18,631.81
4.0	WATERMAINS	\$ 732,177.10	\$ 172,764.62
5.0	SERVICE CONNECTIONS	\$ 31,389.76	\$ 4,708.46
6.0	STORMWATER MANAGEMENT PONDS	\$ 3,625,014.79	\$ 968,752.22
7.0	PRIMARY ROADWORKS	\$ 644,608.09	\$ 96,691.21
8.0	SECONDARY ROADWORKS	\$ 1,229,119.56	\$ 1,229,119.56
9.0	HYDRO AND STREET LIGHTING	\$ 215,000.00	\$ 32,250.00
	<b>SUB-TOTAL</b>	<b>\$ 7,964,271.08</b>	<b>\$ 2,746,846.10</b>
	CONTINGENCY ALLOWANCE	\$ 796,427.11	\$ 274,684.61
	ENGINEERING (15%)	\$ 1,194,640.66	\$ 412,026.91
	<b>SUB-TOTAL</b>	<b>\$ 9,955,338.84</b>	<b>\$ 3,433,557.62</b>
	<b>HST</b>	<b>\$ 1,294,194.05</b>	<b>\$ 446,362.49</b>
	<b>TOTAL</b>	<b>\$ 11,249,532.89</b>	<b>\$ 3,879,920.11</b>

<b>DEVELOPMENT ENG. AND ADMIN FEE (6% OF CONSTRUCTION COST)</b>	<b>\$ 477,856.26</b>
<b>50% FEE COLLECTED PREVIOUSLY AT FIRST SUBMISSION</b>	<b>\$ 563,949.47</b>
<b>REMAINING FEE DUE</b>	<b>\$ -</b>

**SCHEDULE "I"**  
**SUBDIVISION DRAFT PLAN**







## SCHEDULE “J”

### MTE Consultants

EC1.1	Aug 27, 2024	Overall Existing Conditions Plan
EC2.3	Aug 27, 2024	Existing Conditions and Removals Plan No. 3
EC2.4	Aug 27, 2024	Existing Conditions and Removals Plan No. 4
ES1.1	Aug 27, 2024	Ultimate Erosion and Sediment Control Plan No. 1
ES1.2	Aug 27, 2024	Ultimate Erosion and Sediment Control Plan No. 2
ES1.3	Aug 27, 2024	Ultimate Erosion and Sediment Control Plan No. 3
ES1.6	Aug 27, 2024	Erosion and Sediment Control Details Plan
GP1.3	Aug 27, 2024	General Plan of Services No. 3
GP1.4	Aug 27, 2024	General Plan of Services No. 4
WM1.2	Aug 27, 2024	Watermain Servicing Plan No. 2
LG1.1	Aug 27, 2024	Lot Grading Plan No. 1
LG1.2	Aug 27, 2024	Lot Grading Plan No. 2
LG1.3	Aug 27, 2024	Lot Grading Plan No. 3
LG1.4	Aug 27, 2024	Lot Grading Plan No. 4
LG1.11	Aug 27, 2024	Lot Grading Details Plan
LG1.12	Aug 27, 2024	Retaining Wall Cross Sections
SW2.1	Aug 27, 2024	SWM Facility 2 Plan
SW2.2	Aug 27, 2024	SWM Facility 2 Section and Details Plan No. 1
SW2.3	Aug 27, 2024	SWM Facility 2 Details Plan No.2
SW3.1	Aug 27, 2024	SWM Facility 3 Plan & Section
SW3.2	Aug 27, 2024	SWM Facility Details Plan No. 1
SW3.3	Aug 27, 2024	SWM Facility 3 Section & Details Plan No. 2
SW4.1	Aug 27, 2024	SWM Facility General Details and Notes Plan
PP1.3	Aug 27, 2024	Burkholder Street – STA 0+700 to STA 0+930
PP5.1	Aug 27, 2024	Ottawa Street – STA -0+040 to STA 0+240
PP5.2	Aug 27, 2024	Ottawa Street – STA 0+240 to STA 0+560
PP5.3	Aug 27, 2024	Ottawa Street – STA 0+560 to STA 0+800
PP6.1	Aug 27, 2024	Sheridan Drive – STA -0+020 to STA 0+280
PP7.1	Aug 27, 2024	Block 238 Storm Outlet – STA 0+020 to STA 0+220

PP8.1	Aug 27, 2024	Wetland Outlet – STA 0+020 to STA 0+140 Storm Outlet – Block 237 – STA 0+020 to STA 0+100
PP9.1	Aug 27, 2024	Lot 209 RYCB 311.1 – STA 0+000 to STA 0+060
MS2.1	Aug 27, 2024	General Details Plan
MS3.1	Aug 27, 2024	Proposed Fence Location Plan
MS4.1	Aug 27, 2024	Wetland Headwall Arrangement
MS6.1	Aug 27, 2024	Proposed Staging Plan
PM1.1	Aug 27, 2024	Pavement Marking and Signage Plan No. 1
PM1.2	Aug 27, 2024	Pavement Marking and Signage Plan No. 2
PM1.3	Aug 27, 2024	Pavement Marking and Signage Plan No. 3
SWM Report	Aug 27, 2024	Final Stormwater Management Report

**DOUGAN & ASSOCIATES**

Buffer Management

L1	May 24, 2024	Buffer Plan Overview
L2	May 24, 2024	Wetland 1 Buffer Plan
L3	May 24, 2024	Wetland 2 Buffer Plan
D1	May 24, 2024	Details
D2	May 24, 2024	Details

Ottawa Street Tree Plans

L1	June 25, 2024	Ottawa Street – Street Tree Overview
L2	June 25, 2024	Ottawa Street – Street Tree Zones 1-3

SWM Landscape Plans

L1	June 13, 2024	SWM Planting Plan Overview
L2	June 13, 2024	SWM Facility 1 Planting Plan
L3	June 13, 2024	SWM Facility 2 Planting Plan
L4	June 13, 2024	SWM Facility 3 Planting Plan & Wetland Compensation Plan
D1	June 13, 2024	Plantings Details
D2	June 13, 2024	Plantings Details
D3	June 13, 2024	Plantings Details
D3	June 13, 2024	Plantings Details

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

**1.0 SANITARY SEWERS**

Provide and install sanitary pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**1.1 PIPES**

SHERIDAN DRIVE		Dia.	Depth	DWG PP6.1					
1.1.1	Ex. STUB - MH54A	375mm	3.7m	62.8	m	\$ 182.40	\$ 11,454.72	\$ -	\$ 11,454.72
1.1.2	MH54A - MH53A	375mm	3.8m	19.8	m	\$ 182.40	\$ 3,611.52	\$ -	\$ 3,611.52
1.1.3	MH53A - Plug (Block 15)	200mm	3.5m	10.8	m	\$ 121.02	\$ 1,307.02	\$ -	\$ 1,307.02
1.1.4	MH53A - MH52A	375mm	3.8m	18.5	m	\$ 182.40	\$ 3,374.40	\$ -	\$ 3,374.40
1.1.5	MH52A - MH51A	375mm	4.0m	61.4	m	\$ 182.40	\$ 11,199.36	\$ -	\$ 11,199.36
1.1.6	MH51A - MH50A	375mm	4.4m	19.5	m	\$ 182.40	\$ 3,556.80	\$ -	\$ 3,556.80
1.1.7	MH50A - MH49A	375mm	5.0m	34.8	m	\$ 182.40	\$ 6,347.52	\$ -	\$ 6,347.52
1.1.8	MH49A - Plug (Block 237)	200mm	4.7m	11.5	m	\$ 120.53	\$ 1,386.10	\$ -	\$ 1,386.10
1.1.9	MH49A - MH48A	375mm	4.5m	62.2	m	\$ 182.40	\$ 11,345.28	\$ -	\$ 11,345.28
OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
1.1.10	MH48A - MH47A	375mm	4.8m	90.0	m	\$ 182.40	\$ 16,416.00	\$ -	\$ 16,416.00
1.1.11	MH47A - MH46A	375mm	4.8m	46.4	m	\$ 182.40	\$ 8,463.36	\$ -	\$ 8,463.36
1.1.12	MH46A - MH45A	375mm	4.4m	34.2	m	\$ 182.40	\$ 6,238.08	\$ -	\$ 6,238.08
1.1.13	MH45A - MH44A	375mm	4.4m	31.0	m	\$ 182.40	\$ 5,654.40	\$ -	\$ 5,654.40
1.1.14	MH44A - MH43A	375mm	4.5m	36.5	m	\$ 182.40	\$ 6,657.60	\$ -	\$ 6,657.60
1.1.15	MH43A - Plug	200mm	3.6m	22.5	m	\$ 116.83	\$ 2,628.68	\$ -	\$ 2,628.68
1.1.16	MH43A - MH42A	200mm	4.3m	67.7	m	\$ 112.96	\$ 7,647.39	\$ -	\$ 7,647.39
1.1.17	MH42A - Plug (Block 13)	200mm	4.2m	19.7	m	\$ 117.38	\$ 2,312.39	\$ -	\$ 2,312.39
1.1.18	MH42A - MH41A	200mm	4.2m	59.4	m	\$ 112.96	\$ 6,709.82	\$ -	\$ 6,709.82
1.1.19	MH41A - MH40A	200mm	4.1m	31.1	m	\$ 112.96	\$ 3,513.06	\$ -	\$ 3,513.06
1.1.20	MH40A - MH39A	200mm	4.0m	20.4	m	\$ 112.96	\$ 2,304.38	\$ -	\$ 2,304.38
1.1.21	MH39A - Plug (Block 12)	200mm	4.0m	19.7	m	\$ 117.38	\$ 2,312.39	\$ -	\$ 2,312.39
BURKHOLDER STREET		Dia.	Depth	DWG PP1.1, PP1.2 & PP1.3					
1.1.22	MH43A - Plug	300mm	4.3m	22.9	m	\$ 169.05	\$ 3,871.25	\$ -	\$ 3,871.25
<b>SUBTOTAL PIPES</b>						<b>\$ 128,311.50</b>	<b>\$ -</b>	<b>\$ 128,311.50</b>	

**1.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching and casting adjusted to binder asphalt grade. Manholes are to include wrapping with Mel-Rol or an approved equivalent where joints are within 1.2m of the 2 year seasonal water table.

SHERIDAN DRIVE		Dia.	Depth	DWG PP6.1					
1.2.1	MH54A	1200mm	3.7m	1	L.S.	\$ 7,177.19	\$ 7,177.19	\$ -	\$ 7,177.19
1.2.2	MH53A	1200mm	3.7m	1	L.S.	\$ 7,038.29	\$ 7,038.29	\$ -	\$ 7,038.29
1.2.3	MH52A	1200mm	3.7m	1	L.S.	\$ 7,038.29	\$ 7,038.29	\$ -	\$ 7,038.29
1.2.4	MH51A	1200mm	4.2m	1	L.S.	\$ 7,299.12	\$ 7,299.12	\$ -	\$ 7,299.12
1.2.5	MH50A	1200mm	4.6m	1	L.S.	\$ 7,559.95	\$ 7,559.95	\$ -	\$ 7,559.95
1.2.6	MH49A	1200mm	4.9m	1	L.S.	\$ 7,820.79	\$ 7,820.79	\$ -	\$ 7,820.79
OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2		\$ 7,300.00			
1.2.7	MH48A	1200mm	4.3m	1	L.S.	\$ 7,364.33	\$ 7,364.33	\$ -	\$ 7,364.33
1.2.8	MH47A	1200mm	5.0m	1	L.S.	\$ 7,885.99	\$ 7,885.99	\$ -	\$ 7,885.99
1.2.9	MH46A	1200mm	4.6m	1	L.S.	\$ 7,559.95	\$ 7,559.95	\$ -	\$ 7,559.95
1.2.10	MH45A	1200mm	4.3m	1	L.S.	\$ 7,429.54	\$ 7,429.54	\$ -	\$ 7,429.54
1.2.11	MH44A	1200mm	4.4m	1	L.S.	\$ 7,494.75	\$ 7,494.75	\$ -	\$ 7,494.75
1.2.12	MH43A	1200mm	4.5m	1	L.S.	\$ 7,559.95	\$ 7,559.95	\$ -	\$ 7,559.95
1.2.13	MH42A	1200mm	4.3m	1	L.S.	\$ 7,364.33	\$ 7,364.33	\$ -	\$ 7,364.33
1.2.14	MH41A	1200mm	4.1m	1	L.S.	\$ 7,299.12	\$ 7,299.12	\$ -	\$ 7,299.12
1.2.15	MH40A	1200mm	4.1m	1	L.S.	\$ 7,299.12	\$ 7,299.12	\$ -	\$ 7,299.12



**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

1.2.16	MH39A	1200mm	4.0m	1	L.S.	\$ 7,233.91	\$ 7,233.91	\$ -	\$ 7,233.91
<b>SUBTOTAL MANHOLES</b>						<b>\$ 118,424.62</b>	<b>\$ -</b>	<b>\$ 118,424.62</b>	

**1.3 MISCELLANEOUS**

1.3.1	Remove Existing 375mm Plug and Connect New Sanitary Sewer To Existing 375mm Sewer on Sheridan Drive.	1	L.S.	\$ 1,197.12	\$ 1,197.12	\$ -	\$ 1,197.12	
1.3.2	Supply, Install, and Maintain Positive Dewatering System - Contractor shall prepare dewatering plan and submit for approval prior to construction.							
1.3.2.1	Mobilization / Demobilization	1	L.S.	\$ 28,557.40	\$ 28,557.40	\$ -	\$ 28,557.40	
1.3.2.2	Daily Operation and Maintenance	30	Day	\$ 595.86	\$ 17,875.80	\$ -	\$ 17,875.80	
1.3.2.3	Installation of Well Points and Header Pipe	400	m	\$ 201.99	\$ 80,796.00	\$ -	\$ 80,796.00	
1.3.2.4	Removal of Well Points and Header Pipe	400	m	\$ 75.75	\$ 30,300.00	\$ -	\$ 30,300.00	
1.3.2.5	Supply and Install Discharge Pipe for Dewatering System including Sediment Trap	1	L.S.	\$ 6,615.09	\$ 6,615.09	\$ -	\$ 6,615.09	
1.3.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	9	Each	\$ 500.00	\$ 4,500.00	\$ -	\$ 4,500.00	
1.3.4	Upon completion of the sanitary sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 4,320.00	\$ 4,320.00	\$ -	\$ 4,320.00	
1.3.5	Upon completion of the sanitary sewer installation, provide all labour, materials to complete an air test to the satisfaction of the Engineer.	1	L.S.	\$ 1,950.00	\$ 1,950.00	\$ -	\$ 1,950.00	
1.3.6	Upon completion of the sanitary sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Final Acceptance	1	L.S.	\$ 4,480.00	\$ 4,480.00	\$ -	\$ 4,480.00	
<b>SUBTOTAL MISCELLANEOUS</b>						<b>\$ 180,591.41</b>	<b>\$ -</b>	<b>\$ 180,591.41</b>

<b>TOTAL SANITARY SEWERS</b>						<b>\$ 427,327.53</b>	<b>\$ -</b>	<b>\$ 427,327.53</b>
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**2.0 STORM SEWERS**

Provide and install storm pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. Any associated dewatering costs shall be included in the unit prices.

The Township is in agreement to fund 50% of the costs for storm sewer sizing required for the 35m Ottawa Street R.O.W. only. The difference in total costs for storm sewer sizing required for the 35m Ottawa Street R.O.W. only and for the 23m Ottawa Street R.O.W. only is estimated to be \$10,583.56.

**2.1 PIPES**

OTTAWA STREET	Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
2.1.1 MH326 - DCBMH325 <i>*As per Section 11.8 of this agreement the Township is responsible for 50% of the cost of storm sewer sizing for the 35m ROW drainage area only. Sewer is assumed to be sized as noted in the item descriptions at comparable MTE-T-24-35 contract items. The Township portion for this item is based on 450mm dia.</i>	450mm	1.6m	20.8	m	\$ 193.77	\$ 4,030.42	\$ 2,015.21	\$ 2,015.21
2.1.2 MH326 - CBMH324	1525x 965mm	2.4m	23.8	m	\$ 1,547.49	\$ 36,830.26	\$ -	\$ 36,830.26
2.1.3 MH326 - CBMH308 <i>*Township portion based on 600mm dia. as per note in Item 2.1.1</i>	825mm	2.5m	44.3	m	\$ 484.20	\$ 21,450.06	\$ 5,498.07	\$ 15,951.99
2.1.4 CBMH308 - CBMH307 <i>*Township portion based on 600mm dia. as per note in Item 2.1.1</i>	825mm	2.9m	54.4	m	\$ 484.20	\$ 26,340.48	\$ 6,751.58	\$ 19,588.90
2.1.5 CBMH307 - MH306 <i>*Township portion based on 525mm dia. as per note in Item 2.1.1</i>	750mm	3.4m	54.3	m	\$ 420.83	\$ 22,851.07	\$ 5,613.26	\$ 17,237.81
2.1.6 MH306 - CBMH305 <i>*Township portion based on 375mm dia. as per note in Item 2.1.1</i>	375mm	2.5m	20.7	m	\$ 186.95	\$ 3,869.87	\$ 1,934.93	\$ 1,934.93

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

2.1.7	MH281 - DCBMH280 *Township portion based on 450mm dia. as per note in Item 2.1.1	525mm	2.3m	9.3	m	\$ 206.75	\$ 1,922.78	\$ 901.03	\$ 1,021.74
2.1.8	DCBMH280 - DCBMH279 *Township portion based on 300mm dia. as per note in Item 2.1.1	525mm	2.3m	8.4	m	\$ 206.75	\$ 1,736.70	\$ 655.20	\$ 1,081.50
2.1.9	DCBMH279 - Plug (Block 14)	450mm	1.8m	12.1	m	\$ 205.01	\$ 2,480.62	\$ -	\$ 2,480.62
2.1.10	MH281 - CBMH278 c/w 1 Bend *Township portion based on 600mm dia. as per note in Item 2.1.1	1345x 2110mm	3.0m	31.4	m	\$ 3,098.02	\$ 97,277.83	\$ 3,897.05	\$ 93,380.77
2.1.11	CBMH278 - MH277 c/w 45 Deg Bend *Township portion based on 600mm dia. as per note in Item 2.1.1	1345x 2110mm	3.1m	35.5	m	\$ 3,045.81	\$ 108,126.26	\$ 4,405.91	\$ 103,720.35
2.1.12	MH277 - MH276 *Township portion based on 600mm dia. as per note in Item 2.1.1	1050mm	2.2m	4.5	m	\$ 672.15	\$ 3,024.68	\$ 558.50	\$ 2,466.18
2.1.13	MH276 - CBMH275	750mm	2.4m	7.9	m	\$ 420.83	\$ 3,324.56	\$ -	\$ 3,324.56
2.1.14	CBMH275 - Plug	750mm	2.4m	21.3	m	\$ 439.88	\$ 9,369.44	\$ -	\$ 9,369.44
2.1.15	MH276 - CBMH274 *Township portion based on 525mm dia. as per note in Item 2.1.1	750mm	2.4m	19.8	m	\$ 420.83	\$ 8,332.43	\$ 2,046.83	\$ 6,285.61
2.1.16	CBMH274 - CBMH273 *Township portion based on 450mm dia. as per note in Item 2.1.1	750mm	2.5m	62.4	m	\$ 420.83	\$ 26,259.79	\$ 6,045.62	\$ 20,214.17
2.1.17	CBMH273 - Plug (Block 13)	525mm	2.2m	9.0	m	\$ 224.66	\$ 2,021.94	\$ -	\$ 2,021.94
2.1.18	CBMH273 - CBMH272 *Township portion based on 450mm dia. as per note in Item 2.1.1	600mm	2.5m	47.5	m	\$ 248.22	\$ 11,790.45	\$ 4,602.04	\$ 7,188.41
2.1.19	CBMH272 - CBMH271 *Township portion based on 450mm dia. as per note in Item 2.1.1	600mm	2.4m	52.1	m	\$ 248.22	\$ 12,932.26	\$ 5,047.71	\$ 7,884.55
2.1.20	CBMH271 - Plug (Block 12)	525mm	2.2m	8.8	m	\$ 225.07	\$ 1,980.62	\$ -	\$ 1,980.62
2.1.21	CBMH271 - CBMH270 *Township portion based on 375mm dia. as per note in Item 2.1.1	375mm	2.1m	65.7	m	\$ 186.95	\$ 12,282.62	\$ 6,141.31	\$ 6,141.31
<b>SHERIDAN DRIVE</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP6.1</b>					
2.1.22	MH306 - CBMH304	675mm	3.5m	15.0	m	\$ 329.79	\$ 4,946.85	\$ -	\$ 4,946.85
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
2.1.23	MH277 - CBMH269.1 c/w 1 - Bend	2110x 1345mm	3.0m	10.6	m	\$ 3,980.54	\$ 42,193.72	\$ -	\$ 42,193.72
<b>SUBTOTAL PIPES</b>							<b>\$ 465,375.69</b>	<b>\$ 56,114.25</b>	<b>\$ 409,261.44</b>

**2.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, back arches, benching, orifices and casting adjusted to binder asphalt grade. Manholes are to include wrapping with Mel-Rol or an approved equivalent where joints are within 1.2m of the 2 year seasonal water table.

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
2.2.1	DCBMH325 *As per Section 11.8 of this agreement the Township is responsible for 50% of the cost of storm sewer sizing for the 35m ROW. Manholes are assumed to be sized as noted in the item descriptions at comparable MTE-T-24-35 contract items. The Township portion for this item is based on a 1500mm dia. structure.	1500mm	1.5m	1	L.S.	\$ 6,775.83	\$ 6,775.83	\$ 3,536.18	\$ 3,239.65
2.2.2	MH326	3600mm	2.4m	1	L.S.	\$ 56,108.97	\$ 56,108.97	\$ -	\$ 56,108.97
2.2.3	CBMH324	3000mm	2.3m	1	L.S.	\$ 24,655.39	\$ 24,655.39	\$ -	\$ 24,655.39
2.2.4	CBMH308 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	2.5m	1	L.S.	\$ 7,665.40	\$ 7,665.40	\$ 2,872.06	\$ 4,793.35

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

2.2.5	CBMH307 c/w 200mm dia. Drop Structure *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	3.0m	1	L.S.	\$ 10,346.27	\$ 10,346.27	\$ 4,283.39	\$ 6,062.89
2.2.6	MH306 c/w 200mm dia. Drop Structure *Township portion based on 1200mm dia. as per note in Item 2.2.1	2400mm	3.5m	1	L.S.	\$ 21,241.95	\$ 21,241.95	\$ 2,872.06	\$ 18,369.90
2.2.7	CBMH305 c/w 200mm dia. Drop Structure *Township portion based on 1200mm dia. as per note in Item 2.2.1	1200mm	2.2m	1	L.S.	\$ 8,566.77	\$ 8,566.77	\$ 4,283.39	\$ 4,283.39
2.2.8	DCBMH279 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	1.9m	1	L.S.	\$ 7,072.36	\$ 7,072.36	\$ 2,872.06	\$ 4,200.31
2.2.9	DCBMH280 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	2.0m	1	L.S.	\$ 7,171.20	\$ 7,171.20	\$ 2,872.06	\$ 4,299.15
2.2.10	MH281 *Township portion based on 1500mm dia. as per note in Item 2.2.1	3600mm	3.1m	1	L.S.	\$ 64,868.14	\$ 64,868.14	\$ 3,733.86	\$ 61,134.28
2.2.11	CBMH278 (Tee) *Township portion based on 1200mm dia. as per note in Item 2.2.1	1200mm	1.3m	1	L.S.	\$ 8,412.28	\$ 8,412.28	\$ 2,872.06	\$ 5,540.23
2.2.12	MH277 *Township portion based on 1500mm dia. as per note in Item 2.2.1	3600mm	3.0m	1	L.S.	\$ 58,849.30	\$ 58,849.30	\$ 3,733.86	\$ 55,115.44
2.2.13	MH276 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1800mm	2.5m	1	L.S.	\$ 10,272.75	\$ 10,272.75	\$ 2,872.06	\$ 7,400.70
2.2.14	CBMH275	1500mm	2.3m	1	L.S.	\$ 7,467.72	\$ 7,467.72	\$ -	\$ 7,467.72
2.2.15	CBMH274 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	2.4m	1	L.S.	\$ 7,566.56	\$ 7,566.56	\$ 2,872.06	\$ 4,694.51
2.2.16	CBMH273 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	2.6m	1	L.S.	\$ 7,764.24	\$ 7,764.24	\$ 2,872.06	\$ 4,892.19
2.2.17	CBMH272 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1200mm	2.4m	1	L.S.	\$ 5,744.11	\$ 5,744.11	\$ 2,872.06	\$ 2,872.06
2.2.18	CBMH271 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1500mm	2.4m	1	L.S.	\$ 7,566.56	\$ 7,566.56	\$ 2,872.06	\$ 4,694.51
2.2.19	CBMH270 *Township portion based on 1200mm dia. as per note in Item 2.2.1	1200mm	2.1m	1	L.S.	\$ 5,548.48	\$ 5,548.48	\$ 2,774.24	\$ 2,774.24
<b>SHERIDAN DRIVE</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP6.1</b>					
2.2.20	CBMH304	1500mm	3.3m	1	L.S.	\$ 8,446.67	\$ 8,446.67	\$ -	\$ 8,446.67
<b>BURKHOLDER STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP1.1, PP1.2 &amp; PP1.3</b>					
2.2.21	CBMH269.1 (Tee)	1200mm	1.2m	1	L.S.	\$ 8,404.37	\$ 8,404.37	\$ -	\$ 8,404.37
<b>SUBTOTAL MANHOLES</b>						<b>\$ 350,515.32</b>	<b>\$ 51,065.46</b>	<b>\$ 299,449.86</b>	

**2.3 SINGLE CATCHBASINS**

Complete - including lead, bends (if required), Tee or connection to manholes, 0.5m sump, castings adjusted to binder asphalt grade and leads on Class "B" bedding. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

<b>OTTAWA STREET</b>		<b>Dia.</b>	<b>Depth</b>	<b>DWG PP5.1, PP5.2 &amp; PP5.3</b>					
2.3.1	SICB325.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.2	CB308.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.3	CB307.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.4	CB305.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.5	CB274.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.6	CB273.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.7	CB272.1	250mm	9.0m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.8	CB271.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40
2.3.9	CB270.1	250mm	8.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ 2,146.40	\$ 2,146.40

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

SHERIDAN DRIVE		Dia.	Depth	DWG PP6.1					
2.3.10	CB306.1	250mm	12.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ -	\$ 4,292.79
BURKHOLDER STREET		Dia.	Depth	DWG PP1.1, PP1.2 & PP1.3					
2.3.11	CB269.1	250mm	10.5m	1	L.S.	\$ 4,292.79	\$ 4,292.79	\$ -	\$ 4,292.79
<b>SUBTOTAL SINGLE CATCHBASINS</b>						<b>\$ 47,220.69</b>	<b>\$ 19,317.56</b>	<b>\$ 27,903.14</b>	

**2.4 MISCELLANEOUS**

2.4.1	Supply and Install Hickenbottom Drain c/w connection to storm sewer (Provisional)	1	Each	\$ 900.00	\$ 900.00	\$ -	\$ 900.00	
2.4.2	Supply and Install Rigid Pipe Insulation as per Detail 3 on SW4.1	155	m <sup>2</sup>	\$ 65.00	\$ 10,075.00	\$ -	\$ 10,075.00	
2.4.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	3	Each	\$ 500.00	\$ 1,500.00	\$ -	\$ 1,500.00	
2.4.4	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 2,650.00	\$ 2,650.00	\$ -	\$ 2,650.00	
2.4.5	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 2,740.00	\$ 2,740.00	\$ -	\$ 2,740.00	
2.4.6	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Final Acceptance	1	L.S.	\$ 4,362.58	\$ 4,362.58	\$ -	\$ 4,362.58	
<b>SUBTOTAL MISCELLANEOUS</b>						<b>\$ 22,227.58</b>	<b>\$ -</b>	<b>\$ 22,227.58</b>

<b>TOTAL STORM SEWERS</b>						<b>\$ 885,339.28</b>	<b>\$ 126,497.26</b>	<b>\$ 758,842.02</b>
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**3.0 GROUNDWATER MANAGEMENT SYSTEM**

Provide and install GWMS pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**3.1 PIPES**

OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
3.1.1	G48 - G47	300mm	2.8m	37.5	m	\$ 154.75	\$ 5,803.13	\$ -	\$ 5,803.13
3.1.2	G47 - G46	300mm	3.7m	49.2	m	\$ 154.75	\$ 7,613.70	\$ -	\$ 7,613.70
3.1.3	G46 - G45	300mm	3.7m	29.5	m	\$ 154.75	\$ 4,565.13	\$ -	\$ 4,565.13
3.1.4	G45 - G44	300mm	3.7m	22.7	m	\$ 154.75	\$ 3,512.83	\$ -	\$ 3,512.83
3.1.5	G44 - G43	300mm	3.6m	57.3	m	\$ 154.75	\$ 8,867.18	\$ -	\$ 8,867.18
3.1.6	G43 - G42	300mm	3.4m	43.0	m	\$ 154.75	\$ 6,654.25	\$ -	\$ 6,654.25
3.1.7	G43 - Plug (Block 13)	300mm	3.5m	11.4	m	\$ 183.48	\$ 2,091.67	\$ -	\$ 2,091.67
3.1.8	G42 - G41	300mm	3.3m	49.7	m	\$ 154.75	\$ 7,691.08	\$ -	\$ 7,691.08
3.1.9	G41 - Plug (Block 12)	300mm	3.2m	11.1	m	\$ 184.26	\$ 2,045.29	\$ -	\$ 2,045.29
BURKHOLDER STREET		Dia.	Depth	DWG PP1.1, PP1.2 & PP1.3					
3.1.10	G45 - Plug	300mm	3.4m	19.0	m	\$ 158.53	\$ 3,012.07	\$ -	\$ 3,012.07
<b>SUBTOTAL PIPES</b>						<b>\$ 51,856.30</b>	<b>\$ -</b>	<b>\$ 51,856.30</b>	

**3.2 MANHOLES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching (where required per special provisions), orifices and custom casting adjusted to binder asphalt grade.

OTTAWA STREET		Dia.	Depth	DWG PP5.1, PP5.2 & PP5.3					
3.2.1	G48	1200mm	1.8m	1	L.S.	\$ 7,015.40	\$ 7,015.40	\$ -	\$ 7,015.40
3.2.2	G47	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	\$ -	\$ 6,819.78
3.2.3	G46	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	\$ -	\$ 6,819.78
3.2.4	G45	1200mm	3.7m	1	L.S.	\$ 6,819.78	\$ 6,819.78	\$ -	\$ 6,819.78
3.2.5	G44	1200mm	3.6m	1	L.S.	\$ 6,754.57	\$ 6,754.57	\$ -	\$ 6,754.57
3.2.6	G43	1200mm	3.5m	1	L.S.	\$ 6,689.36	\$ 6,689.36	\$ -	\$ 6,689.36
3.2.7	G42	1200mm	3.3m	1	L.S.	\$ 6,624.15	\$ 6,624.15	\$ -	\$ 6,624.15
3.2.8	G41	1200mm	3.2m	1	L.S.	\$ 6,493.74	\$ 6,493.74	\$ -	\$ 6,493.74
<b>SUBTOTAL MANHOLES</b>						<b>\$ 54,036.56</b>	<b>\$ -</b>	<b>\$ 54,036.56</b>	

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

**3.3 MISCELLANEOUS**

3.3.1	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	5	Each	\$ 500.00	\$ 2,500.00	\$ -	\$ 2,500.00
3.3.2	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 1,300.00	\$ 1,300.00	\$ -	\$ 1,300.00
3.3.3	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 405.00	\$ 405.00	\$ -	\$ 405.00
3.3.4	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 2,117.13	\$ 2,117.13	\$ -	\$ 2,117.13
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 6,322.13</b>	<b>\$ -</b>	<b>\$ 6,322.13</b>
<b>TOTAL GROUNDWATER MANAGEMENT SYSTEM</b>					<b>\$ 112,214.99</b>	<b>\$ -</b>	<b>\$ 112,214.99</b>

**4.0 WATERMAINS**

Provide and install watermain as specified including all fittings, removal and installation of necessary plugs, connection to existing mains, anodes, restraints, valves, blow off, valve boxes and hydrants; excavation, supporting trenches, Blocking of fittings, laying of pipes, Class "B" bedding, and backfill to be compacted with optimum moisture content to current DGSSMS specifications, and reinstatement of surface, with a minimum 2 m cover. All work to be constructed as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. All dewatering costs to be included in the unit prices.

**4.1 MAINS**

		Dia.						
4.1.1	Ottawa Street <i>*As per Section 11.8 of this agreement the Township is responsible for 50% of the upsizing cost of the watermain from 300mm to 450mm (pipe cost only). Cost for 300mm dia. watermain is calculated at \$444.79/m as per MTE-T-24-35 contract item A4.1.2.</i>	450mm	791	m	\$ 668.90	\$ 529,099.90	\$ 88,635.51	\$ 440,464.40
4.1.2	Ottawa Street	300mm	30	m	\$ 444.79	\$ 13,343.70	\$ -	\$ 13,343.70
4.1.3	Sheridan Drive	200mm	20	m	\$ 297.70	\$ 5,954.00	\$ -	\$ 5,954.00
4.1.4	Burkholder Street	300mm	15	m	\$ 376.43	\$ 5,646.45	\$ -	\$ 5,646.45
<b>SUBTOTAL MAINS</b>					<b>\$ 554,044.05</b>	<b>\$ 88,635.51</b>	<b>\$ 465,408.55</b>	

**4.2 VALVES**

Including valve box complete to finished binder asphalt grade and marked with 100 x 100 mm marker painted blue. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

		Dia.						
4.2.1	Sheridan Drive	200mm	1	Each	\$ 2,907.28	\$ 2,907.28	\$ -	\$ 2,907.28
4.2.2	Burkholder Street	300mm	1	Each	\$ 5,464.08	\$ 5,464.08	\$ -	\$ 5,464.08
<b>SUBTOTAL VALVES</b>					<b>\$ 8,371.36</b>	<b>\$ -</b>	<b>\$ 8,371.36</b>	

**4.3 HYDRANTS**

Including main Tee, 150 mm valve and box, nut extension if required, lead pipe and barrel extensions as required. All as per the current Township of Woolwich Standards and Specifications, and Region of Waterloo DGSSMS.

		Tee Size						
4.3.1	Ottawa Street	450x 150mm	5	Each	\$ 6,985.39	\$ 34,926.95	\$ -	\$ 34,926.95
<b>SUBTOTAL HYDRANTS</b>					<b>\$ 34,926.95</b>	<b>\$ -</b>	<b>\$ 34,926.95</b>	

**4.4 MISCELLANEOUS**

4.4.1	Connect to Existing 450mm dia. Watermain on Woolwich Street (Sta. -0+020 Ottawa Street) with cut-in tee, including all removals and restorations.	1	L.S.	\$ 31,865.30	\$ 31,865.30	\$ -	\$ 31,865.30
4.4.2	Connect to Existing 300mm dia. Watermain on Menno Street (Sta. 0+780 Ottawa Street) with cut-in tee, including all removals and restorations.	1	L.S.	\$ 42,179.47	\$ 42,179.47	\$ -	\$ 42,179.47
4.4.3	Supply and Install Concrete Cut-Off Collars as per Detail on MS2.1	4	Each	\$ 500.00	\$ 2,000.00	\$ -	\$ 2,000.00
4.4.4	Supply and Install Drain Chamber as per DGSSMS Detail E2-09. Price shall include shop drawings.	1	Each	\$ 12,020.05	\$ 12,020.05	\$ 6,010.03	\$ 6,010.03

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

4.4.5	Supply and Install 450mm dia. Isolation Valves c/w 50mm dia. By-pass	2	Each	\$ 30,000.00	\$ 60,000.00	\$ 30,000.00	\$ 30,000.00
4.4.6	Supply and Install 150mm Water Service to Block 250 c/w (1) Valve, Temporary Blow-Off, and 2x4 Marker	1	L.S.	\$ 10,230.84	\$ 10,230.84	\$ -	\$ 10,230.84
4.4.7	Conduct Hydrant Flow Test	5	Each	\$ 1,200.00	\$ 6,000.00	\$ -	\$ 6,000.00
4.4.8	Provide all Labour, equipment and materials to pressure test, swab, chlorinate, de-chlorinate and two (2) bacteriological tests (24 hours apart) the watermain to satisfy the testing procedures by the Township of Woolwich including backflow preventor valves, temporary and final connections to mains. A copy of the Contractor's Watermain Commissioning Plan is to be submitted to the engineer for review and approval prior to testing.	1	L.S.	\$ 4,000.00	\$ 4,000.00	\$ -	\$ 4,000.00
4.4.9	Provide equipment, labour and material to carry out a conductivity test on the watermain and services tracer wire.	1	L.S.	\$ 1,070.00	\$ 1,070.00	\$ -	\$ 1,070.00
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 169,365.66</b>	<b>\$ 36,010.03</b>	<b>\$ 133,355.64</b>

<b>TOTAL WATERMAINS</b>					<b>\$ 766,708.02</b>	<b>\$ 124,645.53</b>	<b>\$ 642,062.49</b>
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**5.0 SERVICE CONNECTIONS**

**5.1 SANITARY CONNECTIONS (100 mm dia. pipe)**

5.1.1	Sheridan Drive	32	Each	\$ 980.93	\$ 31,389.76	\$ -	\$ 31,389.76
<b>SUBTOTAL SANITARY CONNECTIONS (100 mm dia. pipe)</b>					<b>\$ 31,389.76</b>	<b>\$ -</b>	<b>\$ 31,389.76</b>

<b>TOTAL SERVICE CONNECTIONS</b>					<b>\$ 31,389.76</b>	<b>\$ -</b>	<b>\$ 31,389.76</b>
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**6.0 STORMWATER MANAGEMENT PONDS**

Provide and install storm pipe as specified on the contract drawings, with Class "B" bedding including excavation, trench support, laying of pipe, backfill, compaction of trenches with optimum moisture content as per current OPSS MUNI specifications, DGSSMS specifications, reinstatement of surface. Provide all material, labour and equipment to complete the work. All work to be constructed as per the current Township of Woolwich Standards and Specifications, Region of Waterloo DGSSMS, OPSS MUNI specifications, CSA and ASTM standards. **Any associated dewatering costs shall be included in the unit prices.**

**6.1 PIPES**

SWM FACILITY 2		Dia.	Depth	DWG SW2.1, SW2.2, SW2.3					
6.1.1	HW284 - MH283	825mm	3.1m	14.6	m	\$ 484.20	\$ 7,069.32	\$ -	\$ 7,069.32
6.1.2	MH283 - SPMH282	825mm	3.1m	8.9	m	\$ 484.20	\$ 4,309.38	\$ -	\$ 4,309.38
6.1.3	HW285 - SPMH282	1730x 1090mm	3.1m	13.8	m	\$ 1,916.62	\$ 26,449.36	\$ -	\$ 26,449.36
6.1.4	SPMH282 - MH281	2110x 1345mm	3.1m	20.9	m	\$ 2,648.28	\$ 55,349.05	\$ -	\$ 55,349.05
6.1.5	HW286 - MH287	450mm	3.4m	18.1	m	\$ 197.89	\$ 3,581.81	\$ -	\$ 3,581.81
6.1.6	HW288 - MH287	750mm	3.4m	9.4	m	\$ 455.53	\$ 4,281.98	\$ -	\$ 4,281.98
6.1.7	MH287 - MH287.1	375mm	3.5m	15.9	m	\$ 191.01	\$ 3,037.06	\$ -	\$ 3,037.06
6.1.8	MH287.1 - Gallery (HDPE)	600mm	3.6m	1.0	m	\$ 252.82	\$ 252.82	\$ -	\$ 252.82
6.1.9	MH287.2 - Gallery (HDPE)	600mm	3.6m	1.0	m	\$ 252.82	\$ 252.82	\$ -	\$ 252.82
6.1.10	G48 - Gallery (HDPE)	300mm	1.8m	1.0	m	\$ 200.20	\$ 200.20	\$ -	\$ 200.20
SWM FACILITY 3		Dia.	Depth	DWG SW3.1, SW3.2, SW3.3					
6.1.5	HW331 - SPMH327	1200x 900mm	2.5m	4.5	m	\$ 1,387.83	\$ 6,245.24	\$ -	\$ 6,245.24
6.1.6	SPMH327 - MH326	1525x 965mm	2.5m	4.8	m	\$ 1,547.49	\$ 7,427.95	\$ -	\$ 7,427.95
6.1.7	HW330 - MH329 c/w Bend	675mm	2.2m	7.4	m	\$ 329.79	\$ 2,440.45	\$ -	\$ 2,440.45
6.1.8	MH329 - MH328	675mm	2.0m	11.4	m	\$ 329.79	\$ 3,759.61	\$ -	\$ 3,759.61
6.1.9	MH328 - SPMH327	675mm	2.3m	26.1	m	\$ 329.79	\$ 8,607.52	\$ -	\$ 8,607.52
6.1.10	HW332 - MH333	450mm	3.2m	19.1	m	\$ 197.89	\$ 3,779.70	\$ -	\$ 3,779.70
6.1.11	HW334 - MH333	675mm	3.2m	48.2	m	\$ 335.10	\$ 16,151.82	\$ -	\$ 16,151.82
6.1.12	HW333.1 - MH333	375mm	3.2m	2.6	m	\$ 191.01	\$ 496.63	\$ -	\$ 496.63
6.1.13	HW333.1 - Gallery (HDPE)	300mm	3.1m	1.0	m	\$ 200.20	\$ 200.20	\$ -	\$ 200.20
6.1.14	HW333.2 - Gallery (HDPE)	300mm	2.8m	1.0	m	\$ 200.20	\$ 200.20	\$ -	\$ 200.20
<b>SUBTOTAL PIPES</b>						<b>\$ 154,093.10</b>	<b>\$ -</b>	<b>\$ 154,093.10</b>	

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

**6.2 STRUCTURES**

Precast concrete manholes complete, including drop shafts, safety grates, steps, benching, orifices and casting adjusted to finished grade.

SWM FACILITY 2		Dia.	Depth	DWG SW2.1, SW2.2, SW2.3				
6.2.1	SPMH282 as per Detail 2 on DWG SW2.2	3000x 2400mm	3.1m	1	L.S.	\$ 43,758.23	\$ 43,758.23	\$ - \$ 43,758.23
6.2.2	MH283	2400mm	3.0m	1	L.S.	\$ 17,898.19	\$ 17,898.19	\$ - \$ 17,898.19
6.2.3	HW284 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 24,085.28	\$ 24,085.28	\$ - \$ 24,085.28
6.2.4	HW285 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 28,525.26	\$ 28,525.26	\$ - \$ 28,525.26
6.2.5	HW286 as per OPSD 804.030 c/w Rodent Grate and Handrail	N/A	N/A	1	L.S.	\$ 11,339.20	\$ 11,339.20	\$ - \$ 11,339.20
6.2.6	MH287 as per Detail 5 on DWG SW2.3	2400mm	3.4m	1	L.S.	\$ 41,752.57	\$ 41,752.57	\$ - \$ 41,752.57
6.2.7	MH287.1	1200mm	3.6m	1	L.S.	\$ 6,681.75	\$ 6,681.75	\$ - \$ 6,681.75
6.2.8	MH287.2	1200mm	3.5m	1	L.S.	\$ 6,681.75	\$ 6,681.75	\$ - \$ 6,681.75
6.2.9	HW288 as per OPSD 804.040 c/w Modified Chute Blocks (250mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 22,310.33	\$ 22,310.33	\$ - \$ 22,310.33
SWM FACILITY 3		Dia.	Depth	DWG SW3.1, SW3.2, SW3.3				
6.2.5	SPMH327 as per Detail 3 on DWG SW3.2	2400x 1800mm	2.5m	1	L.S.	\$ 32,385.60	\$ 32,385.60	\$ - \$ 32,385.60
6.2.6	MH328	1500mm	2.2m	1	L.S.	\$ 7,334.18	\$ 7,334.18	\$ - \$ 7,334.18
6.2.7	MH329	1500mm	1.8m	1	L.S.	\$ 6,938.82	\$ 6,938.82	\$ - \$ 6,938.82
6.2.8	HW330 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 21,773.65	\$ 21,773.65	\$ - \$ 21,773.65
6.2.9	HW331 as per OPSD 804.040 c/w Modified Chute Blocks (350mm), Grate and Handrail	N/A	N/A	1	L.S.	\$ 24,252.11	\$ 24,252.11	\$ - \$ 24,252.11
6.2.10	HW332 as per OPSD 804.030 c/w Rodent Grate and Handrail	N/A	N/A	1	L.S.	\$ 11,339.20	\$ 11,339.20	\$ - \$ 11,339.20
6.2.11	MH333 as per Detail 6 on DWG SW3.3	2400mm	4.1m	1	L.S.	\$ 38,197.99	\$ 38,197.99	\$ - \$ 38,197.99
6.2.12	MH333.1	1200mm	3.1m	1	L.S.	\$ 6,418.63	\$ 6,418.63	\$ - \$ 6,418.63
6.2.13	MH333.2	1200mm	2.8m	1	L.S.	\$ 6,155.51	\$ 6,155.51	\$ - \$ 6,155.51
<b>SUBTOTAL STRUCTURES</b>						<b>\$ 357,828.25</b>	<b>\$ -</b>	<b>\$ 357,828.25</b>

**6.3 POND WORKS**

SWM FACILITY 2		DWG SW2.1, SW2.2, SW2.3				
6.3.1	Supply and Install End of Pipe Infiltration Gallery, ADS Stormtech DC-780 Subsurface Chamber System or approved equivalent, as per Detail 4 on DWG SW2.3.	1	L.S.	\$ 287,313.80	\$ 287,313.80	\$ - \$ 287,313.80
6.3.2	Supply and Install GWMS Infiltration Gallery, ADS Stormtech SC-310 Subsurface Chamber System or approved equivalent, as per Detail 5 on DWG SW3.3.	1	L.S.	\$ 50,990.65	\$ 50,990.65	\$ - \$ 50,990.65
6.3.3	Supply and Install 300mm HDPE Culverts	18	m	\$ 170.70	\$ 3,072.60	\$ - \$ 3,072.60
6.3.4	Supply and Install Geomembrane Liner (Layfield RPE 25) c/w Backfill as per Detail 1C on DWG SW4.1	14,125	m <sup>2</sup>	\$ 31.24	\$ 441,265.00	\$ - \$ 441,265.00
6.3.5	Construct 500mm thick Concrete Forebay Weir, as per Detail 6 DWG SW2.3	1	L.S.	\$ 19,577.42	\$ 19,577.42	\$ - \$ 19,577.42
6.3.6	Construct 500mm thick Concrete Overflow Weir, as per Detail 7 DWG SW2.3	1	L.S.	\$ 20,677.42	\$ 20,677.42	\$ - \$ 20,677.42
6.3.7	Supply and Install 300mm Gabion Mat, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	240	m <sup>2</sup>	\$ 144.33	\$ 34,639.20	\$ - \$ 34,639.20
6.3.8	Supply and Install 450mm Rip Rap Pad c/w Geotextile Underlay (Terrafix 400R or Equivalent)	165	m <sup>2</sup>	\$ 105.94	\$ 17,480.10	\$ - \$ 17,480.10
6.3.9	Supply and Install 450mm Rip Rap Outlet Swale, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	190	m <sup>2</sup>	\$ 105.94	\$ 20,128.60	\$ - \$ 20,128.60
6.3.10	Supply, Place, and Compact Granular B Type II in Forebay (300mm Deep)	490	m <sup>2</sup>	\$ 18.59	\$ 9,109.10	\$ - \$ 9,109.10
6.3.11	Supply and Install Articulated Concrete Block Mat (CCG2) or Approved Equivalent	170	m <sup>2</sup>	\$ 135.90	\$ 23,103.00	\$ - \$ 23,103.00

**MADWEST SUBDIVISION**

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**DC COST SHARING**

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6.3.12	Supply and Install Articulated Concrete Block Mat (CC-35) or Approved Equivalent, for the Overland Flow Route as per Detail 1 on Drawing SW2.2.	150	m <sup>2</sup>	\$ 147.71	\$ 22,156.50	\$ -	\$ 22,156.50
6.3.13	Construct Articulated Concrete Block Mat Access Road as per Detail 2C DWG SW4.1 including all excavation, 450mm Granular B, 150mm Granular A, and CCG2 Cable Concrete	265	m <sup>2</sup>	\$ 128.26	\$ 33,988.90	\$ -	\$ 33,988.90
6.3.14	Construct 5m Wide Asphalt Access Road, as per Detail 2B DWG SW4.1, including all excavation, 450mm Granular B, 150mm Granular A, 60mm HL4 Asphalt.	3,790	m <sup>2</sup>	\$ 57.55	\$ 218,114.50	\$ -	\$ 218,114.50
6.3.15	Supply, Place and Compact 40mm HL3 Asphalt on 4m Wide Access Road (2027).	3,790	m <sup>2</sup>	\$ 15.65	\$ 59,313.50	\$ -	\$ 59,313.50
6.3.16	Load, Haul, Place, and Fine grade 450mm 300mm-Topsoil in Pond Landscaping Areas from Onsite Stockpile	26,800	m <sup>2</sup>	\$ 4.23	\$ 113,364.00	\$ -	\$ 113,364.00
6.3.17	Supply and Place Hydroseed in Zone 1 as per Dougan & Associates DWG L1 and L3	1,300	m <sup>2</sup>	\$ 0.91	\$ 1,183.00	\$ -	\$ 1,183.00
6.3.18	Supply and Place Hydroseed in Zone 2 as per Dougan & Associates DWG L1 and L3	8,700	m <sup>2</sup>	\$ 0.91	\$ 7,917.00	\$ -	\$ 7,917.00
6.3.19	Supply and Place Hydroseed in Zone 3 as per Dougan & Associates DWG L1 and L3	16,800	m <sup>2</sup>	\$ 1.11	\$ 18,648.00	\$ -	\$ 18,648.00
6.3.20	Supply and Install Lockable Galvanized Steel Swing P-Gate and Warning Sign as per Township of Woolwich Detail 503	8	Each	\$ 2,373.35	\$ 18,986.80	\$ -	\$ 18,986.80
6.3.21	Supply and Install Perimeter 1.5m High Black Vinyl Chain Link Fence	278	m	\$ 222.19	\$ 61,768.82	\$ -	\$ 61,768.82
6.3.22	Install Township supplied Benchmark Tablet on the face of Headwalls	4	Each	\$ 219.37	\$ 877.48	\$ -	\$ 877.48
6.3.23	Supply and Install Warning Sign as per Township of Woolwich Detail 503	2	Each	\$ 499.92	\$ 999.84	\$ -	\$ 999.84
6.3.24	Supply and Install SWM Facility Educational Sign as per Detail on PM1.1	2	Each	\$ 807.95	\$ 1,615.90	\$ -	\$ 1,615.90
6.3.25	Supply and Install No Winter Maintenance Sign as per Detail on PM1.1	2	Each	\$ 499.92	\$ 999.84	\$ -	\$ 999.84
<b>SWM FACILITY 3</b>		<b>DWG SW3.1, SW3.2, SW3.3</b>					
6.3.26	Supply and Install End of Pipe Infiltration Gallery, ADS Stormtech SC-310 Subsurface Chamber System or approved equivalent, as per Detail 5 on DWG SW3.3.	1	L.S.	\$ 60,605.11	\$ 60,605.11	\$ -	\$ 60,605.11
6.3.27	Supply and Install Geomembrane Liner (Layfield RPE 25) c/w Backfill as per Detail 1C on DWG SW4.1	2,870	m <sup>2</sup>	\$ 32.08	\$ 92,069.60	\$ -	\$ 92,069.60
6.3.28	Construct 500mm thick Concrete Forebay Weir, as per Detail 6 DWG SW3.3	1	L.S.	\$ 32,677.42	\$ 32,677.42	\$ -	\$ 32,677.42
6.3.29	Construct 500mm thick Concrete Overflow Weir, as per Detail 7 DWG SW3.3	1	L.S.	\$ 17,377.42	\$ 17,377.42	\$ -	\$ 17,377.42
6.3.30	Supply and Install 300mm Gabion Mat, complete with Geotextile Underlay (Terrafix 400R or Equivalent)	253	m <sup>2</sup>	\$ 144.92	\$ 36,664.76	\$ -	\$ 36,664.76
6.3.31	Supply and Install 450mm Rip Rap Pad c/w Geotextile Underlay (Terrafix 400R or Equivalent)	116	m <sup>2</sup>	\$ 105.94	\$ 12,289.04	\$ -	\$ 12,289.04
6.3.32	Supply and Install Articulated Concrete Block Mat (CCG2) or Approved Equivalent	150	m <sup>2</sup>	\$ 138.74	\$ 20,811.00	\$ -	\$ 20,811.00
6.3.33	Supply and Install Articulated Concrete Block Mat (CC-35) or Approved Equivalent	70	m <sup>2</sup>	\$ 172.44	\$ 12,070.80	\$ -	\$ 12,070.80
6.3.34	Supply, Place, and Compact Granular B Type II in Forebay (900mm Deep)	35	m <sup>2</sup>	\$ 18.59	\$ 650.65	\$ -	\$ 650.65
6.3.35	Supply, Place, and Compact Granular B Type II in Wet Pond (900mm Deep)	200	m <sup>2</sup>	\$ 18.59	\$ 3,718.00	\$ -	\$ 3,718.00
6.3.36	Construct Articulated Concrete Block Mat Access Road as per Detail 2C DWG SW4.1 including all excavation, 450mm Granular B, 150mm Granular A, and CCG2 Cable Concrete	75	m <sup>2</sup>	\$ 154.55	\$ 11,591.25	\$ -	\$ 11,591.25
6.3.37	Construct 4m Wide Asphalt Access Road, as per Detail 2B DWG SW4.1, including all excavation, 450mm Granular B, 150mm Granular A, 60mm HL4 Asphalt.	180	m <sup>2</sup>	\$ 75.52	\$ 13,593.60	\$ -	\$ 13,593.60
6.3.38	Supply, Place and Compact 40mm HL3 Asphalt on 4m Wide Access Road (2027).	180	m <sup>2</sup>	\$ 27.27	\$ 4,908.60	\$ -	\$ 4,908.60
6.3.39	Load, Haul, Place, and Finegrade 450mm 300mm-Topsoil in Pond Landscaping Areas from Onsite Stockpile	7,690	m <sup>2</sup>	\$ 4.23	\$ 32,528.70	\$ -	\$ 32,528.70
6.3.40	Supply and Place Hydroseed in Zone 1 as per Dougan & Associates DWG L1 and L4	650	m <sup>2</sup>	\$ 0.91	\$ 591.50	\$ -	\$ 591.50
6.3.41	Supply and Place Hydroseed in Zone 2 as per Dougan & Associates DWG L1 and L4	1,240	m <sup>2</sup>	\$ 0.91	\$ 1,128.40	\$ -	\$ 1,128.40
6.3.42	Supply and Place Hydroseed in Zone 3 as per Dougan & Associates DWG L1 and L4	5,800	m <sup>2</sup>	\$ 1.11	\$ 6,438.00	\$ -	\$ 6,438.00
6.3.43	Supply and Install Lockable Galvanized Steel Swing P-Gate and Warning Sign as per Township of Woolwich Detail 503	4	Each	\$ 2,373.35	\$ 9,493.40	\$ -	\$ 9,493.40
6.3.44	Supply and Install Perimeter 1.5m High Black Vinyl Chain Link Fence	395	m	\$ 185.83	\$ 73,402.85	\$ -	\$ 73,402.85
6.3.45	Install Township supplied Benchmark Tablet on the face of Headwalls	4	Each	\$ 219.37	\$ 877.48	\$ -	\$ 877.48
6.3.46	Supply and Install Warning Sign as per Township of Woolwich Detail 503	2	Each	\$ 499.92	\$ 999.84	\$ -	\$ 999.84
6.3.47	Supply and Install SWM Facility Educational Sign as per Detail on PM1.1	1	Each	\$ 807.95	\$ 807.95	\$ -	\$ 807.95



**MADWEST SUBDIVISION**  
**OTTAWA STREET, SWM FACILITIES #2 AND #3**  
**SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

DC COST SHARING

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

6.3.48	Supply and Install No Winter Maintenance Sign as per Detail on PM1.1	1	Each	\$ 398.93	\$ 398.93	\$ -	\$ 398.93
<b>SUBTOTAL POND WORKS</b>					<b>\$ 1,932,985.27</b>	<b>\$ -</b>	<b>\$ 1,932,985.27</b>

**6.4 MISCELLANEOUS**

6.4.1	Supply and Install Pipe Insulation as per Detail 3 on SW4.1	346	m <sup>2</sup>	\$ 65.00	\$ 22,490.00	\$ -	\$ 22,490.00
6.4.2	Supply and Install 51m Long Pre-cast Concrete Retaining Wall at HW334 as shown on Drawing LG1.1.	80	Face m <sup>2</sup>	\$ 585.76	\$ 46,860.80	\$ -	\$ 46,860.80
6.4.3	Pre-cast Retaining Wall Certification and building permit for each wall, including closing of permit once the walls have been constructed and certified.	1	L.S.	\$ 3,787.26	\$ 3,787.26	\$ -	\$ 3,787.26
6.4.4	Supply and Install 1.5m High Black Vinyl Chain Link Fence on Retaining Wall	51	m	\$ 222.19	\$ 11,331.69	\$ -	\$ 11,331.69
6.4.5	Supply, Install, and Maintain Positive Dewatering System for Pond #3 - Contractor shall prepare dewatering plan and submit for approval prior to construction.					\$ -	
6.4.5.1	Mobilization / Demobilization	1	L.S.	\$ 29,018.67	\$ 29,018.67	\$ -	\$ 29,018.67
6.4.5.2	Daily Operation and Maintenance	30	Day	\$ 595.86	\$ 17,875.80	\$ -	\$ 17,875.80
6.4.5.3	Installation of Well Points and Header Pipe	350	m	\$ 201.99	\$ 70,696.50	\$ -	\$ 70,696.50
6.4.5.4	Removal of Well Points and Header Pipe	350	m	\$ 75.75	\$ 26,512.50	\$ -	\$ 26,512.50
6.4.5.5	Supply and Install Discharge Pipe for Dewatering System including Sediment Trap	1	L.S.	\$ 6,615.09	\$ 6,615.09	\$ -	\$ 6,615.09
6.4.6	Connect to Existing HW334	1	L.S.	\$ 1,271.67	\$ 1,271.67	\$ -	\$ 1,271.67
6.4.7	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection, mandrel (pig) test and provide reports to the Engineer. - Initial Acceptance	1	L.S.	\$ 1,100.00	\$ 1,100.00	\$ -	\$ 1,100.00
6.4.8	Upon completion of the storm sewer installation, provide all labour, materials to complete an infiltration and exfiltration test to the satisfaction of the Engineer.	1	L.S.	\$ 1,275.00	\$ 1,275.00	\$ -	\$ 1,275.00
6.4.9	Upon completion of the storm sewer installation, provide all labour, materials and equipment to flush clean and complete a CCTV inspection and provide reports to the Engineer. - End of Maintenance Period	1	L.S.	\$ 1,787.69	\$ 1,787.69	\$ -	\$ 1,787.69
6.4.10	Clean Out SWM Facilities 2 & 3 Sediment. Sediment to be removed 2 times. - Estimated Value	1	L.S.	\$ 500,000.00	\$ 500,000.00	\$ -	\$ 500,000.00
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 740,622.67</b>	<b>\$ -</b>	<b>\$ 740,622.67</b>

**6.5 PLANTING / LANDSCAPING**

SWM FACILITY 2		DWG SW2.1, SW2.2, SW2.3					
6.5.1	Deciduous Trees - 50mm Cal.	175	Each	\$ 900.00	\$ 157,500.00	\$ -	\$ 157,500.00
6.5.2	Coniferous Trees - 150cm Ht.	96	Each	\$ 900.00	\$ 86,400.00	\$ -	\$ 86,400.00
6.5.3	Deciduous Trees - 2 Gal.	766	Each	\$ 45.00	\$ 34,470.00	\$ -	\$ 34,470.00
6.5.4	Deciduous Shrubs - 2 Gal.	1038	Each	\$ 30.00	\$ 31,140.00	\$ -	\$ 31,140.00
6.5.5	Herbaceous - Plugs	1140	Each	\$ 15.00	\$ 17,100.00	\$ -	\$ 17,100.00
6.5.6	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 38,221.00	\$ 38,221.00	\$ -	\$ 38,221.00
SWM FACILITY 3 & WETLAND COMPENSATION		DWG SW3.1, SW3.2, SW3.3					
6.5.8	Deciduous Trees - 50mm Cal.	43	Each	\$ 900.00	\$ 38,700.00	\$ -	\$ 38,700.00
6.5.9	Deciduous Trees - 2 Gal.	200	Each	\$ 45.00	\$ 9,000.00	\$ -	\$ 9,000.00
6.5.10	Coniferous Trees - 2 Gal.	26	Each	\$ 45.00	\$ 1,170.00	\$ -	\$ 1,170.00
6.5.11	Deciduous Shrubs - 2 Gal.	420	Each	\$ 30.00	\$ 12,600.00	\$ -	\$ 12,600.00
6.5.12	Herbaceous - Plugs	330	Each	\$ 15.00	\$ 4,950.00	\$ -	\$ 4,950.00
6.5.13	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 8,234.50	\$ 8,234.50	\$ -	\$ 8,234.50
<b>SUBTOTAL PLANTING / LANDSCAPING</b>					<b>\$ 439,485.50</b>	<b>\$ -</b>	<b>\$ 439,485.50</b>
<b>TOTAL STORMWATER MANAGEMENT PONDS</b>					<b>\$ 3,625,014.79</b>	<b>\$ -</b>	<b>\$ 3,625,014.79</b>

**MADWEST SUBDIVISION**

**OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

**7.0 PRIMARY ROADWORKS**

**7.1 FINE GRADING**

Shape to correct cross-section, fine grade and compact (95% Standard Proctor) the sub-grade of the roads, R.O.W. including boulevards, and the backfilling of the curbs.

7.1.1	Ottawa Street	27,000	m <sup>2</sup>	\$ 0.76	\$ 20,520.00	\$ 10,260.00	\$ 10,260.00
<b>SUBTOTAL FINE GRADING</b>					<b>\$ 20,520.00</b>	<b>\$ 10,260.00</b>	<b>\$ 10,260.00</b>

**7.2 GRANULAR "B"**

Supply, place, shape and compact (100% Standard Proctor) Granular B Type 2 sub base to a final thickness as noted, extending 300 mm behind the back of curb.

		Depth					
7.2.1	Ottawa Street	600mm	13,845	Tonne	\$ 17.33	\$ 239,933.85	\$ 119,966.93
<b>SUBTOTAL GRANULAR "B"</b>					<b>\$ 239,933.85</b>	<b>\$ 119,966.93</b>	<b>\$ 119,966.93</b>

**7.3 GRANULAR "A"**

Supply, place, shape and compact (100% Standard Proctor) Granular "A" gravel base to a final thickness as noted.

		Depth					
A7.3.1	Ottawa Street	210mm	4,850	Tonne	\$ 19.06	\$ 92,441.00	\$ 46,220.50
<b>SUBTOTAL GRANULAR "A"</b>					<b>\$ 92,441.00</b>	<b>\$ 46,220.50</b>	<b>\$ 46,220.50</b>

**A7.4 CURB AND GUTTER**

A7.4.1	Ottawa Street	1,500	m	\$ 49.84	\$ 74,760.00	\$ 37,380.00	\$ 37,380.00
<b>SUBTOTAL CURB AND GUTTER</b>					<b>\$ 74,760.00</b>	<b>\$ 37,380.00</b>	<b>\$ 37,380.00</b>

**7.5 BINDER ASPHALT**

Supply, place and compact hot mixed, hot laid, binder coarse asphalt (HL4 HL8) to a final thickness as noted, including temporary asphalt curb at all catchbasins.

		Depth					
7.5.1	Ottawa Street - 2 Lifts	100mm	1,860	Tonne	\$ 88.87	\$ 165,298.20	\$ 82,649.10
<b>SUBTOTAL BINDER ASPHALT</b>					<b>\$ 165,298.20</b>	<b>\$ 82,649.10</b>	<b>\$ 82,649.10</b>

**7.6 TEMPORARY LINE PAINTING AND FIRST STAGE SIGNAGE**

OTTAWA STREET		DWG PM1.1, PM1.2, PM1.3					
7.6.1	60cm White Stop Bar	10	m	\$ 16.16	\$ 161.60	\$ 80.80	\$ 80.80
7.6.2	10cm Yellow Solid Line	30	m	\$ 2.32	\$ 69.60	\$ 34.80	\$ 34.80
7.6.3	10cm White Solid Line	23	m	\$ 2.32	\$ 53.36	\$ 26.68	\$ 26.68
7.6.4	Ra-1 c/w Street Signs on a U-Channel Post	1	Each	\$ 600.91	\$ 600.91	\$ 300.46	\$ 300.46
7.6.5	Ra-1 c/w Street Signs, 1- Ra-1t and 1- Ra-1tt on a U-Channel Post	1	Each	\$ 681.71	\$ 681.71	\$ 340.86	\$ 340.86
<b>SUBTOTAL TEMPORARY LINE PAINTING AND FIRST STAGE SIGNAGE</b>					<b>\$ 1,567.18</b>	<b>\$ 783.59</b>	<b>\$ 783.59</b>

**7.7 MISCELLANEOUS**

7.7.1	Supply and Install 150mm Subdrains along full road length c/w connection to CB/DCB/CBMH/DCBMH	1,500	m	\$ 32.86	\$ 49,290.00	\$ 24,645.00	\$ 24,645.00
7.7.2	Supply and Install "Unassumed Road Use at Own Risk" Signs. (Provisional)	1	Each	\$ 398.93	\$ 398.93	\$ 199.47	\$ 199.47
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 49,688.93</b>	<b>\$ 24,844.47</b>	<b>\$ 24,844.47</b>

<b>TOTAL PRIMARY ROADWORKS</b>					<b>\$ 644,209.16</b>	<b>\$ 322,104.58</b>	<b>\$ 322,104.58</b>
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**8.0 SECONDARY ROADWORKS**

**8.1 STRUCTURE ADJUSTMENTS**

8.1.1	Adjust MH to finished grade including base asphalt restoration.						
8.1.1.1	Ottawa Street	29	Each	\$ 25.25	\$ 732.25	\$ 366.13	\$ 366.13
8.1.2	Adjust CBMH to finished grade including base asphalt restoration.						
8.1.2.1	Ottawa Street	12	Each	\$ 605.96	\$ 7,271.52	\$ 3,635.76	\$ 3,635.76

**MADWEST SUBDIVISION**  
**OTTAWA STREET, SWM FACILITIES #2 AND #3**  
**SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

DC COST SHARING

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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<b>8.1.3</b>	<b>Adjust DCBMH to finished grade including base asphalt restoration.</b>						
8.1.3.1	Ottawa Street	2	Each	\$ 605.96	\$ 1,211.92	\$ 605.96	\$ 605.96
<b>8.1.4</b>	<b>Adjust CB to finished grade including base asphalt restoration.</b>						
8.1.4.1	Ottawa Street	9	Each	\$ 605.96	\$ 5,453.64	\$ 2,726.82	\$ 2,726.82
<b>8.1.5</b>	<b>Adjust and raise existing mainline valve boxes.</b>						
8.1.5.1	Ottawa Street	8	Each	\$ 353.48	\$ 2,827.84	\$ 1,413.92	\$ 1,413.92
<b>SUBTOTAL STRUCTURE ADJUSTMENTS</b>					<b>\$ 17,497.17</b>	<b>\$ 8,748.59</b>	<b>\$ 8,748.59</b>

**8.2 SURFACE ASPHALT**

Supply, place and compact virgin, hot mixed, hot laid, surface coarse asphalt (HL3) to a final thickness as noted.

		Depth					
8.2.1	Ottawa Street	45mm	840	Tonne	\$ 110.08	\$ 92,467.20	\$ 46,233.60
<b>SUBTOTAL SURFACE ASPHALT</b>					<b>\$ 92,467.20</b>	<b>\$ 46,233.60</b>	<b>\$ 46,233.60</b>

**8.3 SIGNAGE - SECOND STAGE**

	DWG PM1.1, PM1.2, PM1.3						
<b>OTTAWA STREET</b>							
8.3.1	RB-71 Shared Pathway on Steel Post	5	Each	\$ 378.73	\$ 1,893.65	\$ 946.83	\$ 946.83
8.3.2	RB-51 No Parking on Steel Post	24	Each	\$ 323.18	\$ 7,756.32	\$ 3,878.16	\$ 3,878.16
8.3.3	Wa-74 Bump Sign on Steel Post	5	Each	\$ 398.93	\$ 1,994.65	\$ 997.33	\$ 997.33
<b>SUBTOTAL SIGNAGE - SECOND STAGE</b>					<b>\$ 11,644.62</b>	<b>\$ 5,822.31</b>	<b>\$ 5,822.31</b>

**8.4 LINE PAINTING DURABLE**

	DWG PM1.1, PM1.2, PM1.3						
<b>OTTAWA STREET</b>							
8.4.1	60cm White Stop Bar - Durable	10	m	\$ 50.50	\$ 505.00	\$ 252.50	\$ 252.50
8.4.2	10cm Yellow Solid Line - Durable	30	m	\$ 10.10	\$ 303.00	\$ 151.50	\$ 151.50
8.4.3	10cm White Solid Line - Durable	23	m	\$ 10.10	\$ 232.30	\$ 116.15	\$ 116.15
<b>SUBTOTAL LINE PAINTING DURABLE</b>					<b>\$ 1,040.30</b>	<b>\$ 520.15</b>	<b>\$ 520.15</b>

**8.5 CONCRETE WORKS**

<b>8.5.1</b>	<b>Supply and Install New 600.040 Curb and Gutter, including removal and disposal off site of existing asphalt curb at CB,DCB, CBMH and DCBMH, installation of drain markers, and all asphalt and boulevard restoration.</b>						
8.5.1.1	Ottawa Street	40	m	\$ 151.49	\$ 6,059.60	\$ 3,029.80	\$ 3,029.80
<b>8.5.2</b>	<b>Supply and Install 2.4m Wide Concrete MUP, 125mm thick, c/w 150mm thick Granular 'A' base.</b>						
8.5.2.1	Ottawa Street	1,700	m <sup>2</sup>	\$ 73.75	\$ 125,375.00	\$ 62,687.50	\$ 62,687.50
<b>8.5.3</b>	<b>Supply and Install Region of Waterloo Concrete Transit Pad.</b>						
8.5.3.1	Ottawa Street	20	m <sup>2</sup>	\$ 109.45	\$ 2,189.00	\$ 1,094.50	\$ 1,094.50
<b>8.5.4</b>	<b>Supply and Install Truncated Dome Detectable Warning Plates (RMW STD. DWG 224) (0.61m x 0.61m)</b>						
8.5.4.1	Ottawa Street	6	Each	\$ 227.24	\$ 1,363.44	\$ 681.72	\$ 681.72
<b>SUBTOTAL CONCRETE WORKS</b>					<b>\$ 134,987.04</b>	<b>\$ 67,493.52</b>	<b>\$ 67,493.52</b>

**8.6 TOPSOIL AND SOD**

Excavate, screen, load, haul, and place 450mm thick topsoil and sod in boulevards.

8.6.1	Ottawa Street	17,330	m <sup>2</sup>	\$ 13.33	\$ 231,008.90	\$ 115,504.45	\$ 115,504.45
8.6.2	Provide Maintenance of Sod as Required for Duration of 2 Year Warranty Period	1	L.S.	\$ 30,623.00	\$ 30,623.00	\$ 15,311.50	\$ 15,311.50
<b>SUBTOTAL TOPSOIL AND SOD</b>					<b>\$ 261,631.90</b>	<b>\$ 130,815.95</b>	<b>\$ 130,815.95</b>

**MADWEST SUBDIVISION**  
**OTTAWA STREET, SWM FACILITIES #2 AND #3**  
**SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**DC COST SHARING**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE	TOWNSHIP PORTION	SUBDIVIDER PORTION
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Cost shared amounts shown are calculated based on the terms noted in Section 11.8 of this agreement.

**8.7 BOULEVARD TREES**

8.7.1	Deciduous Trees - 50mm Cal.	131	Each	\$ 900.00	\$ 117,900.00	\$ 58,950.00	\$ 58,950.00
8.7.3	Provide Maintenance of Trees as Required for Duration of 2 Year Warranty Period	1	L.S.	\$ 11,790.00	\$ 11,790.00	\$ 5,895.00	\$ 5,895.00
<b>SUBTOTAL BOULEVARD TREES</b>					<b>\$ 129,690.00</b>	<b>\$ 64,845.00</b>	<b>\$ 64,845.00</b>

**8.7 BUFFER PSW 2 LANDSCAPING**

8.7.1	Deciduous Trees - 50mm Cal.	114	Each	\$ 900.00	\$ 102,600.00	\$ -	\$ 102,600.00
8.7.2	Coniferous Trees - 150cm Ht.	92	Each	\$ 900.00	\$ 82,800.00	\$ -	\$ 82,800.00
8.7.3	Deciduous Trees - 2 Gal.	355	Each	\$ 45.00	\$ 15,975.00	\$ -	\$ 15,975.00
8.7.4	Coniferous Trees - 2 Gal.	35	Each	\$ 45.00	\$ 1,575.00	\$ -	\$ 1,575.00
8.7.5	Deciduous Shrubs - 2 Gal.	1,500	Each	\$ 30.00	\$ 45,000.00	\$ -	\$ 45,000.00
8.7.6	Seeding Native - Zones 1 & 2	27,761	Each	\$ 2.00	\$ 55,522.00	\$ -	\$ 55,522.00
8.7.7	Seeding Nurse Crop - Zones 1 & 2	27,761	Each	\$ 0.50	\$ 13,880.50	\$ -	\$ 13,880.50
8.7.8	Maintenance for 2 Year Warranty Period	1	L.S.	\$ 31,735.25	\$ 31,735.25	\$ -	\$ 31,735.25
<b>SUBTOTAL BUFFER PSW 2 LANDSCAPING</b>					<b>\$ 349,087.75</b>	<b>\$ -</b>	<b>\$ 349,087.75</b>

**8.8 MISCELLANEOUS**

<b>8.8.1</b>	<b>Supply and Install Asphalt Speed Control Humps, as per the Detail shown on DWG MS2.1.</b>						
8.8.1.1	Ottawa Street	6	Each	\$ 3,605.48	\$ 21,632.88	\$ 10,816.44	\$ 10,816.44
8.8.2	Existing Menno Street Removals and Earthworks						
8.8.3	Remove and Dispose of Existing Asphalt Off-site	2,725	m <sup>2</sup>	\$ 4.68	\$ 12,753.00	\$ -	\$ 12,753.00
8.8.4	Remove and Dispose of Existing Road Signs Off-site	12	Each	\$ 153.75	\$ 1,845.00	\$ -	\$ 1,845.00
8.8.5	Onsite Cut/Fill - Fill to be placed in Parcel 4 and used to fill the existing sediment basins	26,208	m <sup>3</sup>	\$ 5.95	\$ 155,937.60	\$ -	\$ 155,937.60
8.8.6	Remove and Dispose of Existing 300mm dia. Watermain Off-site	400	m	\$ 23.33	\$ 9,332.00	\$ -	\$ 9,332.00
8.8.7	Remove and Dispose of Existing 300mm dia. Air and Vacuum Release Valve Off-site	1	Each	\$ 997.24	\$ 997.24	\$ -	\$ 997.24
8.8.8	Remove and Dispose of Existing 300mm dia. Valve and Box Off-site	2	Each	\$ 283.28	\$ 566.56	\$ -	\$ 566.56
8.8.9	Remove and Dispose of Existing Hydrant Off-site	1	Each	\$ 333.28	\$ 333.28	\$ -	\$ 333.28
8.8.10	Remove and Dispose of Existing Gas Main Off-site	760	m	\$ 23.33	\$ 17,730.80	\$ -	\$ 17,730.80
8.8.11	Remove and Dispose of Existing Bell Off-site	392	m	\$ 23.33	\$ 9,145.36	\$ -	\$ 9,145.36
8.8.12	Remove and Dispose of Existing Bell Pedestal Off-site	3	Each	\$ 266.62	\$ 799.86	\$ -	\$ 799.86
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 231,073.58</b>	<b>\$ 10,816.44</b>	<b>\$ 220,257.14</b>

<b>TOTAL SECONDARY ROADWORKS</b>					<b>\$ 1,229,119.56</b>	<b>\$ 335,295.56</b>	<b>\$ 893,824.01</b>
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**9.0 HYDRO AND STREET LIGHTING**

9.1	Street Lights	16	Each	\$ 10,000.00	\$ 160,000.00	\$ 80,000.00	\$ 80,000.00
<b>TOTAL HYDRO AND STREET LIGHTING</b>					<b>\$ 160,000.00</b>	<b>\$ 80,000.00</b>	<b>\$ 80,000.00</b>

**MADWEST SUBDIVISION  
OTTAWA STREET, SWM FACILITIES #2 AND #3  
SCHEDULE 'K' DEVELOPMENT CHARGE CALCULATION ESTIMATE**

**SUMMARY**

<b>COST SHARING</b>				
<b>PART</b>	<b>DESCRIPTION</b>	<b>TOTAL CONSTRUCTION COST</b>	<b>TOWNSHIP PORTION</b>	<b>SUBDIVIDER PORTION</b>
1.0	SANITARY SEWERS	\$ 427,327.53	\$ -	\$ 427,327.53
2.0	STORM SEWERS	\$ 885,339.28	\$ 126,497.26	\$ 758,842.02
3.0	GROUNDWATER MANAGEMENT SYSTEM	\$ 112,214.99	\$ -	\$ 112,214.99
4.0	WATERMAINS	\$ 766,708.02	\$ 124,645.53	\$ 642,062.49
5.0	SERVICE CONNECTIONS	\$ 31,389.76	\$ -	\$ 31,389.76
6.0	STORMWATER MANAGEMENT PONDS	\$ 3,625,014.79	\$ -	\$ 3,625,014.79
7.0	PRIMARY ROADWORKS	\$ 644,209.16	\$ 322,104.58	\$ 322,104.58
8.0	SECONDARY ROADWORKS	\$ 1,229,119.56	\$ 335,295.56	\$ 893,824.01
9.0	HYDRO AND STREET LIGHTING	\$ 160,000.00	\$ 80,000.00	\$ 80,000.00
	<b>SUB-TOTAL</b>	<b>\$ 7,881,323.09</b>	<b>\$ 988,542.93</b>	<b>\$ 6,892,780.17</b>
	CONTINGENCY ALLOWANCE	\$ 788,132.31	\$ 98,854.29	\$ 689,278.02
	ENGINEERING (15%)	\$ 1,182,198.46	\$ 148,281.44	\$ 1,033,917.02
	<b>SUB-TOTAL</b>	<b>\$ 9,851,653.87</b>	<b>\$ 1,235,678.66</b>	<b>\$ 8,615,975.21</b>
	<b>HST</b>	<b>\$ 1,280,715.00</b>	<b>\$ 160,638.23</b>	<b>\$ 1,120,076.78</b>
	<b>TOTAL</b>	<b>\$ 11,132,368.87</b>	<b>\$ 1,396,316.88</b>	<b>\$ 9,736,051.98</b>

*In recognition that Madwest will claim the HST credit (ITC tax credit form). The applicant amount for a DC credit will be the subtotal provided on the Progress Payment Certificates.*