



TENDER DOCUMENTS

TENDER NO.: ENG09-15

CCTV CAMERA SURVEY OF GRAVITY SEWERS

**NOTICE TO TENDERERS OF
CITY OF WELLAND MUNICIPAL PROJECTS**

- I In order to protect public health, and to minimize potential liabilities to the Corporation, and those it serves, given the understanding of relevant level of complexity of each tendered project, tenderers are to properly complete Tenderer's Experience In Similar Work - Statement "B" of the Form of Tender. Successful verification of such information by the Corporation that the tenderer has completed similar work, value, and scope will form part of the conditions of tender award.
- II Tenderer is hereby advised that if and when repair work is to be undertaken on a live watermain, caused directly or indirectly by works described herein, General Procedures on All Watermain Repairs, All Replacements and Installations – Normal Conditions of the City of Welland, Engineering, Public Works and Transportation Services, Public Works Division, Operational Procedures for all Watermain Distribution Repair and Installation must be followed. Copy of the document may be obtained from Engineering Services at Civic Square.
- III You are also reminded that since April 1996, City of Welland has adopted the Niagara Peninsula Standard Contract Documents (N.P.S.C.D.) which is available on-line at www.regional.niagara.on.ca, along with the Municipal-Oriented Ontario Provincial Standard (O.P.S.), volumes 1 to 4 and 7-8, as amended, for the tendering of all municipal projects, unless specified otherwise.

The enclosed package and fees charged do not include any of these documents saving those instructions and construction drawings, which are unique to both the project and the Corporation of the City of Welland, and hence, it is the tenderer's responsibility to obtain and/or procure the O.P.S.S. and O.P.S.D., and N.P.S.C.D.

All documents included and referenced must be reviewed carefully and thoroughly so to ensure proper and complete submission.

Thank you for your understanding and cooperation.

D. Tsang, A.Sc.T., CMM III
Technical Services Supervisor

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**SPECIAL INSTRUCTIONS TO
BIDDERS**

SPECIAL INSTRUCTIONS TO BIDDERS

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SPECIAL INSTRUCTIONS TO BIDDERS

1. Named Parties

For the purposes of this contract the following parties are identified:

Owner:	Corporation of the City of Welland
Engineer:	Corporation of the City of Welland
Contract Administrator:	Corporation of the City of Welland
Inspector:	Corporation of the City of Welland
Contact for Enquiries:	Lara Widdifield, C.E.T. Infrastructure Planning Technologist Telephone No.: 905-735-1700 Ext. 2229 Email: lara.widdifield@welland.ca

2. Tender Procedure

The following policy regarding the submission of tenders and the tender opening procedures will be applicable for this project. Tenderers are requested to adhere strictly to the instructions concerning submission.

(a) All tenders must be sealed and submitted to:

Name: Bonnie Nistico-Dunk
Title: Acting City Clerk
Address: City Hall, 60 East Main Street, Welland, ON L3B 3X4

By the following time:

Time: 2:15 p.m. – as per Civic Square Switchboard Console
Date: Monday, June 22, 2009

(b) Tenders received later than the time specified will not be accepted, regardless of the postal seal date. Tenders must be plainly marked to reveal the contents and the Tenderer's name and address.

(c) Tenders shall be submitted in the two (2) envelopes supplied, as follows:

i) The first envelope shall contain:

- "Agreement to Bond" or "Irrevocable Letter of Credit", duly signed and sealed (no copies or facsimiles will be accepted).
- Tender deposit in the form of a **certified cheque** and in the amount of **ten (10) percent of the tendered price**.

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

- Sample of recently completed sewer survey work carried out by the Tenderer within the previous twelve (12) months. The sample shall reflect the requirements of the Contract and shall consist of a report, printed photographs (minimum of 3), digital JPEG photographs (minimum of 3) and digital MPEG video recording on CD or DVD disc.
- Copy of current Certificate(s) of Qualifications for Sewer Pipe Condition Classification CCTV Inspection as issued by the North American Association of Pipeline Inspectors (NAAPI) for all surveyors carrying out survey assessments for this Contract.

ii) The second envelope shall contain:

- Form of Tender (including addenda if applicable).

Please note that the tender specifications shall not be included in the second envelope.

(d) Tenders will be opened the same day that tenders close.

Time: 2:30 p.m.
Location: Civic Square, Welland

Firms submitting tenders will be permitted to attend the tender opening.

(e) The total tender price will be announced for each tender opened, excluding G.S.T.

(f) Tender deposit cheque, other than the two low submissions, will be returned at the opening if the bidder's representative is present and possesses signing authority on behalf of the firm.

3. Tender Award

The award of this tender is subject to the owner obtaining approval from:

Welland City Council

4. Additional Insured

The following parties are identified to be included as additional insured for this project:

Corporation of the City of Welland
Regional Municipality of Niagara

5. Irrevocable Letter of Credit

An irrevocable Letter of Credit in the full amount of the tender price to guarantee the satisfactory performance of the Contract may be substituted in-lieu of the Performance Bond and Labour and Materials Bond requirements of this Contract.

6. **Trial Survey**

Prior to executing the contract, the successful Contractor may be required to undertake a trial survey of one (1) to three (3) sewer length(s) at his/her cost. From this, the Contract Administrator will determine if the methods and equipment used are adequate to satisfy survey and reporting needs. Should the equipment or methods be deemed unacceptable, the Contract Administrator reserves the right to award the contract to the next Tenderer meeting the requirements of the specifications or to re-tender the project.

7. **Survey Line Threading**

Thread lines when used to undertake the Survey shall be provided by the Contractor and the cost of threading shall be included in the unit prices tendered for survey works.

8. **Contract Period**

This Contract shall be in effect upon execution of the formal Contract by the Contractor and upon execution of the bond(s) or letter(s) of credit by the approved surety or sureties.

9. **Survey Formats**

The Contractor is required to verify the acceptability of his survey and database formats with the Contract Administrator prior to submitting his proposal.

10. **Defect Coding**

This contract will use defect coding based on NAAPI WRC 3rd Edition Standards, with additional codes as per the WRC 4th edition. Refer to Schedule 'B'.

**SPECIAL PROVISIONS -
SUPPLEMENTARY**

SPECIAL PROVISIONS – SUPPLEMENTARY

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SPECIAL PROVISIONS – SUPPLEMENTARY

1. Contractor's General Obligations

- 1.1 The Contractor shall, subject to the provisions of the Contract, carry out, complete the Surveys, supply the Final Report, provide all necessary labour, materials, equipment and transport as may be required for or is inferred from the Contract.
- 1.2 The Contractor shall be deemed to have satisfied himself before submitting his Tender as to the correctness and sufficiency of the rates and prices stated by him/her in the priced Schedule of Quantities which shall (except insofar as it is otherwise provided in the Contract) cover all his obligations under the Contract.
- 1.3 Save insofar as it is legally or physically impossible the Contractor shall undertake to complete the Contract to the satisfaction of the Contract Administrator, comply with and adhere strictly to the Contract Administrator's instructions and directions on any matter connected therewith.
- 1.4 The Contractor shall provide the Contract Administrator and any other person authorised by him and notified to the Contractor with access to the Site at all times.

2. Owner's General Obligations

In order to provide the Contractor with the Site the Owner will be responsible for the following:

- a) Access to the site of the work with sufficient area for the placement of the equipment and personnel.
- b) Any excavations found to be necessary for survey purposes together with reinstatement of such excavations.
- c) An authorised representative who has sufficient authority to accept and designate the work.
- d) Location and exposure of all manhole covers prior to commencement of the Survey.
- e) Plan(s) showing the sewer(s) to be surveyed and the positions and identification of the manholes.
- f) Arranging any road closures necessary for the works.
- g) Giving all reasonable assistance to the Contractor in securing the removal of parked vehicles to enable the Survey to proceed.
- h) Removal of excessive debris and obstructions from sewer lengths, as required, in order to permit the completion of the Survey

3. Surveyors and Supervision

- 3.1 All surveyors in the employment of the Contractor shall be fully skilled and adequate in number for the work of this Contract and are to be provided with all the necessary equipment. The surveyor(s) carrying out the survey assessment shall hold current certificate(s) of qualification for Sewer Pipe Condition Classification CCTV Inspection as issued by the North American Association of Pipeline Inspectors (NAAPI) and shall be fully conversant with picture interpretation, WRC (Water Research Council) standard defect coding and classification as specified in Section 4.0 General Survey Specifications. A copy of the certificate(s) of qualification shall be deposited with the Contract Administrator.
- 3.2 The Contractor shall maintain in charge of the Survey at all times a competent supervisor and approved in writing by the Contract Administrator prior to commencement of the Survey. The Contractor shall be responsible for the safety of all site operatives and operations.
- 3.3 The Contract Administrator shall be at liberty to object to and require the Contractor to remove from site any person employed by the Contractor in or about the execution of the Survey who, in the opinion of the Contract Administrator, misconduct's himself or is incompetent or negligent in the performance of his duties or fails to conform with any particular provisions with regard to safety which may be set out in the contract or persists in any conduct which is prejudicial to safety or health and such persons shall not be again employed upon the Survey without the permission of the Contract Administrator.

4. Health and Safety

- 4.1 The Contractor shall comply with the Occupational Health and Safety Act Revised Regulations of Ontario 632/05 dealing with confined spaces. All surveyors employed by the Contractor engaged in survey works under this Contract shall have successfully completed a confined space entry training program.
- 4.2 A confined space entry permit shall be completed prior to starting the survey of any sewer length. Under no circumstances shall any manhole cover be lifted without first testing the confined space atmosphere through the manhole cover pick holes. Sampling shall be carried out for the presence of oxygen deficiency, toxic gas and combustible gas. Manhole covers shall only be removed if initial atmospheric tests have given safe results. Confined space entry permits shall be made available to the Owner for the duration of the Contract.
- 4.3 Interference to normal flow of traffic and pedestrians shall be kept at a minimum. The Contractor shall be prepared to supply and erect any barricading and warning signs as may be required to adequately control both pedestrians and vehicular traffic in accordance with the recommendations for road signing contained in Ontario Regulation 145/00 of the Occupational Health and Safety Act and Regulations for Construction Projects.

- 4.4 Reflective fluorescent safety vests, coloured blazed orange or red, shall be available on each unit at all times, sufficient in number and worn to provide safe working conditions on roadways at all times for the maximum number of operatives at any given time.

5. Damage

In carrying out the works from their inception and until the final acceptance of the same, the Contractor shall cause as little injury or damage as possible to any adjacent property, public or private, or to any sidewalks, roadways, curb gutters, manholes, frames, covers, boulevards, grass, trees, shrubs or any other structure in the vicinity of the works and the Contractor shall repair the same at his own expense, in the manner directed by and to the satisfaction of the Contract Administrator or his representative.

6. Accident

Should any accident occur on or in the vicinity of the Site as a result of the Contractor's operations, the matter shall be reported immediately to the Contract Administrator.

7. Notice to Land Owners

- 7.1 Where it is necessary for the Survey vehicle to drive on to private land in order to carry out the survey of a sewer length the Owner will be responsible for serving formal notices on the landowner(s). The Contractor shall not enter private land until he has established that notices have been served and must therefore provide the Contract Administrator with advanced notice of his intention to carry out the Survey.
- 7.2 Where access is necessary on to private land and premises but which does not involve driving the Survey vehicle over private land and premises the Owner will normally issue the Contractor with a letter of authorisation entitling the Contractor to carry out the Survey in the prescribed manner of the letter of authorisation.
- 7.3 Irrespective of whether a notice has been served the Contractor shall comply with all reasonable requests of landowners and householders particularly with regard to means of access. Any request which the Contractor regards as unreasonable or any access to private lands and premises denied the Contractor should be referred to the Contract Administrator for decision. The Contractor must endeavour to foster good relationships with landowners, householders and the public when carrying out the Survey.

8. Parked Vehicles

The Contractor shall inform the Contract Administrator where parked vehicles are found to impede the progress of the Survey. The Contract Administrator shall then give instruction(s) as to what action is to be taken. The Contractor shall proceed with the next available sewer length to be surveyed.

9. Nuisance

All operations for the execution of the Survey, shall, so far as compliance with the requirements of the Contract permits, be carried out so as not to interfere unnecessarily or improperly with the public convenience or the access to or use or occupation of public or private roads and footpaths or to or of properties whether in the possession of the Owner or of any other person and the Contractor shall save harmless and indemnify the Owner in respect of all claims, demands, proceedings, damages, costs, charges and expenses whatsoever arising out of or in relation to any such matters.

10. Manhole Lifting

The Contractor shall, except where otherwise specified, be responsible for lifting and reseating manhole covers, clearance of all equipment, etc. from the Survey Site.

11. Preliminary Line Threading

It shall be the responsibility of the Contractor to ensure that the survey of a sewer length and removal of any thread line from the same sewer length is completed within two (2) days following the installation of any thread line required to carry out the survey. Failing to comply with the above may result in the Owner having to remove any thread line causing a maintenance problem. The cost of any maintenance required and/or re-threading resulting from the above shall be borne at the Contractor's own expense.

12. Supply of Water

12.1 The Owner shall be responsible for arranging for the supply of water for the Survey. The Contractor will be provided, free of charge, with such water as may be necessary for the proper undertaking of the Contract but shall take all possible precautions to avoid wasting water.

12.2 Water usage via hose connection, (e.g. filling of tanker trucks) or connection of any sort should only be obtained from designated hydrant(s) with Back Flow Preventor(s) installed by City of Welland, Municipal Works staff. It is the Contractor's responsibility to contact the Municipal Works Centre at least one (1) day in advance for the installation. Any connection to a hydrant without a property installed Back Flow Preventor is strictly prohibited. A Back Flow

Preventor is not required if water is obtained through direct discharge from a hydrant where no connection is made to the hydrant ports (e.g. watermain flushing). The Contractor is liable for any and all potable water contamination, and related investigation costs and damages resulting from non-compliance of this hydrant usage protocol.

13. Dealing with Flow and Blockages

- 13.1 The Contractor shall allow in his unit rates and prices and be responsible for dealing with flow as far as is reasonably possible by temporarily stoppering for limited periods without affecting the general effectiveness of the sewer. Such arrangements shall be subject to the Contract Administrator's approval.
- 13.2 If the flow is too great for the Contractor to deal with by this method and the Contractor anticipates requiring overpumping, or work outside of normal working hours, he shall request an authorisation from the Contract Administrator giving at least five (5) working days notice in advance of the time when the Survey is to commence and the estimated time of execution to enable the Contract Administrator to make such arrangements as may be necessary for the work to proceed in the normal operating conditions in the sewer. All costs incurred for dealing with flows other than by stoppering for limited periods will be the Owner's liability and responsibility.
- 13.3 In the case of a blockage in the sewer the Contractor shall request the Contract Administrator to arrange for the blockage to be cleared at the Owner's expense and shall proceed to the next available sewer length to be surveyed. The Contractor shall return to the sewer length when he is informed that the blockage has been cleared.
- 13.4 When there is a rise in the flow due to rainfall or inclement weather preventing survey of the sewer length, the Contractor shall either move to a different location where Survey is still possible or he shall delay the Survey until the temporary rise has abated. In these circumstances, additional payment at the appropriate Contract Rate for Dayworks may only be authorised by the Contract Administrator where the rise in flow does not abate and no further work has been, or is, available to complete an eight (8) hour work period.

14. Flooding

It is to be understood and agreed by both parties that the Survey be carried out in the appropriate manner and that any flooding which occurs in the basement of homes adjacent to the survey site as a direct result of the Contractor's operations shall be the responsibility of the Contractor to rectify immediately. All costs of such rectification shall be borne by the Contractor.

15. Equipment Recovery

- 15.1 The Contractor shall be responsible for all his costs relating to the recovery of or damage to his CCTV inspection system and any other equipment in any sewer length forming part of the Survey.

- 15.2 The Contractor shall also be liable for all costs and damages incurred by the Owner in the recovery of such equipment unless the Contractor has demonstrated to the satisfaction of the Contract Administrator that the loss of such equipment was for reasons beyond the Contractor's control.
- 15.3 Any work necessary to recover the Contractor's equipment lost in the sewerage system shall be subject to the approval of the Contract Administrator, and shall only be carried out by the Contractor on the Contract Administrator's written instruction.

16. Survey Direction

The direction of survey shall be in the direction of flow, that is, from upstream reach to downstream reach with the camera pointed downstream, except for "reversals", resulting from abandonment of surveys. The survey shall be performed in a consecutive order unless directed otherwise.

17. Abandonment of Survey

- 17.1 All obstructions and/or sewer access conditions resulting in abandonment of a Survey shall be fully inspected and reported on to the Contract Administrator through the liaison arrangements laid down. The Survey of a length of sewer may be considered to have been abandoned in the following circumstances:
- a) inability to enter or access manhole
 - b) risk to Contractor's operations due to unsafe condition of manhole before surveying of sewer length has commenced
 - c) inability to maintain picture quality for reasons of sewer condition (i.e. condensation)
 - d) risk to safety of the Contractor's operative once the surveying of a sewer length has started
 - e) further progress being impossible once surveying of a sewer length has started
 - f) high sewage flow or blockage
- 17.2 In cases (a) or (b) the Contractor shall, as soon as reasonably possible, inform the Contract Administrator of his inability to gain access into the sewer and shall proceed to the next available manhole or as otherwise directed by the Contract Administrator.
- 17.3 In case (c) the Contractor shall, as soon as reasonably possible, on completion of the survey of the sewer length, inform the Contract Administrator of his inability to maintain picture quality and shall then continue with the Survey pending a decision on the merits of continuing by the Contract Administrator.

- 17.4 In case (d) the Contractor shall photograph the situation causing abandonment, cease surveying the sewer length and, as soon as reasonably possible, inform the Contract Administrator of his reluctance to continue. The Contractor shall then proceed to survey the same length of sewer from the reverse direction if this is possible and practical or proceed to survey the next available length of sewer to be surveyed, or as otherwise directed by the Contract Administrator.
- 17.5 In case (e) the Contractor shall photograph the situation causing abandonment, abandon the survey of the sewer length and report the matter to the Contract Administrator as soon as reasonably possible. The Contractor shall proceed to survey the same length of sewer from the reverse direction if this is possible and practical or proceed to survey the next available length of sewer to be surveyed, or as otherwise directed by the Contract Administrator.
- 17.6 In case (f) the Contractor shall inform the Contract Administrator as soon as reasonably possible of his inability to gain access into the sewer. The Contractor shall proceed to survey the next available length of sewer to be surveyed subject to SPS clauses 13.3 and 13.4 or as otherwise directed by the Contract Administrator.

18. Electricity Supply

The Contractor shall be responsible for making his own arrangements and paying all charges for the supply of electricity including the provision of mobile generators where necessary.

19. Sewer Safety Equipment

- 19.1 The Contractor at his own cost shall provide and maintain on site suitable and sufficient safety equipment in good order and the necessary personnel trained in its use in order to fulfil the various statutory requirements associated with the Survey and for the safety and protection of employees, the general public and the apparatus and property of the Owner and others.
- 19.2 The following minimum level of equipment shall be carried in each survey vehicle:
- a) Oxygen deficiency, toxic gas and combustible gas detector apparatus properly checked and in full working order
 - b) Approved fresh air breathing apparatus including face mask or approved air supply regularly serviced and operable
 - c) Approved vertical lift safety harnesses.
 - d) Approved safety lines.
 - e) Personal equipment per operative: safety helmet, safety boots, disposable protective gloves, fluorescent safety vests or bright coloured overalls
 - f) First aid kit

- g) Facilities for washing which should include: soft soap, disinfectant, clean water with means of heating.
- h) Fire extinguisher
- i) Any additional equipment necessary for safe operation as specified by the most recent revision(s) to the Ontario Health and Safety Act, and by the Ministry of Labour of Ontario.

20. Survey Vehicle

The survey vehicle shall be provided with a minimum of two amber regulation flashing beacons at diagonal ends on the roof of the vehicle. These shall be lit and flashing at all times when the vehicle is stationary in a working situation within the roadway.

21. Equipment

- 21.1 The Contractor shall use sewer inspection equipment to be approved by the Contract Administrator. Equipment must be capable of inspecting “uncleansed” sewer lengths, as well as sewer lengths with a single access manhole.
- 21.2 The Contractor’s plant and equipment used in the Survey shall be to an approved industry standard for the potentially hazardous environments which may be encountered.

22. Roadway Closures

- 22.1 The Contractor will schedule his operation to allow a minimum one lane of traffic at all times during the work day. The Contractor shall, at his expense, provide competent flag persons at each limit of the restriction, as required by the Ontario Traffic Manual Book 7, N.P.S.C.D. specification A.8., and the Ontario Regulation 145/00 of the Occupational Health and Safety Act.
- 22.2 Two lanes of traffic shall be provided during non working hours.
- 22.3 Roadway closure may only be carried out in case of an emergency, and must be consented to by the Contract Administrator.
- 22.4 If roadway closures are necessary as per SPS 22.3, the Contractor shall be responsible for notifying the Transit Commission, Ambulance, Police, Fire Department, Waste / Recycling Collection Services and other emergency services of the construction schedule and the location of the restricted area each day.

23. City of Welland Road Occupancy Permit

No work may be carried out under this contract until a City of Welland Road Occupancy Permit is issued by the Traffic Department for all affected City roadways. While no fee will be assessed, it is the contractor’s responsibility to ensure one is obtained prior to work commencement.

**GENERAL CONDITIONS -
SUPPLEMENTARY**

GENERAL CONDITIONS – SUPPLEMENTARY

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GENERAL CONDITIONS – SUPPLEMENTARY

1. Program Commencement and Completion

- 1.1 The Contractor shall complete the Survey in accordance with the programme completion dates as entered in Schedule 'C'. For supplemental survey works ordered under the Contract outside of the programme as entered in Schedule 'C', the Contractor shall unless otherwise agreed commence the Survey within five (5) working days of the Contract Administrator's order and shall proceed with the Survey with due diligence in accordance with the Contract.
- 1.2 Should additional work be ordered under the Contract or other special circumstances of any kind arise such as, in the opinion of the Contract Administrator, to entitle the Contractor to an extension of time for the completion of the Survey programme or any part thereof, the Contract Administrator shall, after consultation with the Contractor, determine the amount of such extension.
- 1.3 If in the opinion of the Contract Administrator the Contractor is not proceeding with the Survey with due diligence, the Contract Administrator shall so notify the Contractor in writing and the Contractor shall thereupon take such actions as are necessary as the Contract Administrator may approve to expedite progress so as to complete the Survey by the prescribed or extended time. The Contractor shall not be entitled to any additional payment for taking such actions. If as a result of any notice given by the Contract Administrator under this clause the Contractor shall seek the Contract Administrator's permission to do any work outside of daylight hours or on weekends, such permission shall not be unreasonably refused.
- 1.4 Following commencement of the Survey, the Contractor shall not leave the Site other than in accordance with the agreed programme without having notified the Contract Administrator of the reasons for his departure and the proposed date and time for his return.

2. Program Variations and Extensions of Times

- 2.1 The Contract Administrator shall have full power, during the execution of the Contract by notice in writing, to direct the Contractor to alter, amend, omit, add to or otherwise vary the Survey, if in the opinion of the Contract Administrator such variation is necessary for the satisfactory completion of the Survey, and the Contractor shall carry out such variation in accordance with the Contract.
- 2.2 The value of such variation shall be ascertained by reference to the unit rates entered in the Schedule of Quantities and failing the rates entered in the Schedule of Quantities being applicable to the variation; appropriate rates shall be determined by the Contract Administrator.

- 2.3 Supplemental survey works ordered under the Contract outside of the programme as entered in Schedule 'C', whether by measurement and/or by dayworks, shall be of sufficient quantity to guarantee not less than eight (8) hours of work for any work order placed. If measured work is not possible or will otherwise be delayed, the Contract Administrator at the time of order shall give instruction to the Contractor to carry out the Survey or any part thereof at the appropriate Contract Rate for Dayworks.
- 2.4 The Contractor shall on the written order of the Contract Administrator reschedule or suspend the progress of the Survey or any part thereof for such time or times and in such manner as the Contract Administrator may consider necessary.
- 2.5 The Contract Administrator shall have full power to extend the Contract by notice in writing after due consultation with the Contractor and Owner.

3. Normal Working Hours for Site Work

- 3.1 No survey works shall be carried out on site outside of daylight hours unless otherwise authorised by the Contract Administrator.
- 3.2 Where the volume of traffic or parked vehicles makes it impractical or hazardous to carry out survey works during daylight hours the Contractor shall apply to the Contract Administrator for permission to work outside of these hours.
- 3.3 Sewers shall not be surveyed on Statutory Holidays, Saturdays, Sundays, during Civic labour strikes or disruptions, nor during periods of inclement weather causing substantial rise in sewage flows, unless otherwise authorised by the Contract Administrator.

4. Daily Progress Report

The Contractor shall complete a daily written record detailing the survey works carried out and any dayworks or other additional items claimed in accordance with the Schedule of Quantities. The Contractor shall submit such records for certification to the Contract Administrator at intervals not exceeding five (5) working days.

5. Method of Measurement for Payment

- 5.1 The Contractor shall be entitled to payment for one (1) Site set up upon gaining access to one or more sewer length(s) extending between any two (2) sewer manholes used to access same sewer length(s), whether consecutive or non-consecutive, and irrespective of how he sets up his equipment at the manhole(s). Where the Contractor commences survey of same sewer length(s) from the upstream access manhole but is unable to complete the survey from the same manhole due to reasons of sewer conditions beyond his control, he shall be entitled to further payment for one (1) additional Site set up to complete the

survey of the same sewer length(s) in the reverse direction if this is practical and possible and only if sewer access from the downstream manhole is not otherwise required to survey adjacent sewer length(s) or if the Contract Administrator otherwise considers this to involve substantial additional work.

- 5.2 Payment for Site set up shall be made at the appropriate rate as entered in Part 'A' of the Schedule of Quantities and shall provide for setting up Survey equipment, completing preparatory work at manholes, locating manholes, effecting all safety precautions, lifting and subsequently reseating manhole covers and for moving equipment and personnel between sites.
- 5.3 Where the Contractor commences survey of a sewer length from a manhole irrespective of survey direction or Site set up he shall be entitled to further payment for the actual number of metres of sewer surveyed in the said sewer length. However, for any sewer length extending between any two (2) consecutive manholes, the total number of metres surveyed for said sewer length, for payment purposes, shall not be greater than the lineal distance measurement between the centres of the two (2) said consecutive manholes. Payment for metres of sewer surveyed shall be at the appropriate rate as entered in Part 'A' of the Schedule of Quantities.

6. Dayworks

- 6.1 If measured work as entered in Part 'A' of the Schedule of Quantities is not possible or is otherwise delayed due to unforeseen circumstances, the Contract Rates for Dayworks as entered in Part 'B' of the Schedule of Quantities if appropriate shall be used as a basis for reimbursement where payment is properly due to the Contractor.
- 6.2 Where the description, as entered in the Contract Rates for Dayworks, are inappropriate the Contract Administrator shall set a rate as appropriate.
- 6.3 Expenditures on dayworks shall only be on the instructions of the Contract Administrator. The Contractor shall not be entitled to measured payment for any items as entered in Part 'A' of the Schedule of Quantities while executing any dayworks as entered in Part 'B' of the Schedule of Quantities.
- 6.4 Dayworks ordered or otherwise approved in writing by the Contract Administrator shall be paid at the appropriate Contract Rates for Dayworks, which rates shall be inclusive of all the Contractor's costs whatsoever including supervision, all overheads and profit. The Contract Rates for Dayworks shall provide for all the Survey items covered in Part 'A' of the Schedule of Quantities.
- 6.5 The minimum payment shall be based on one (1) eight (8) hour work period at the appropriate Contract Rate for Dayworks if the Contractor is not otherwise on Site carrying out other survey works under the Contract. Hours worked in excess of this amount shall be paid pro-rata. Hours worked short of this amount shall also be paid pro-rata if other survey works under the Contract have been carried

out by the Contractor or are otherwise available for the Contractor to carry out for the balance of the eight (8) hour work period.

- 6.6 The Contractor shall not be paid standing or delayed time for any of the following:
- a) Delays due to breakdown or recovery of the Contractor's equipment
 - b) Standing time due to inclement weather causing rise in sewage flows unless SPS clause 13.4 of the Supplementary Special Provisions applies.

7. Re-Execution of Unsatisfactory Work

The Contract Administrator shall, during the progress of the survey and up to forty-five (45) days after the execution of the survey, have authority to order in writing the re-execution (notwithstanding any previous test thereof or interim payment therefor) of any work or part thereof which in the opinion of the Contract Administrator is not in accordance with the Contract or which falls significantly below the approved quality assurance standards. The Contract Administrator shall have authority to stop all further survey work until such time that unsatisfactory work has been resubmitted and found acceptable.

8. Withholding of Payment

The Owner shall be entitled to withhold payment if the Contractor has been unable to submit Survey Reports of acceptable quality and/or accuracy and the Contract Administrator has ordered their preparation by a third party.

9. Supplemental Surveys by Others

It is to be understood and agreed by both parties that survey works carried out by the Contractor are to supplement any survey works which may be carried out by the Owner or which may be carried out by any Sewer Maintenance Service Provider working on behalf of the Owner for the purposes of carrying out sewer maintenance. This Contract shall not limit the Owner's right to carry out such survey works as may be required.

10. Forfeiture

- 10.1 If the Contractor shall become bankrupt or have a receiving order made against him or shall present his petition in bankruptcy or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry out the Contract under a committee of inspection of his creditors or (being a corporation) shall go into liquidation (other than a voluntary liquidation for the purposes of amalgamation or reconstruction) or if the Contractor shall assign the Contract without the consent in writing of the Owner first obtained or shall have an execution levied on his goods or if the Contract Administrator shall certify in

writing to the Owner that in his opinion the Contractor:

- a) has abandoned the Contract, or
- b) without reasonable excuse has failed to commence and/or complete the Survey in accordance with GCS clause 1.1 or has suspended the progress of the works for fourteen (14) days after receiving from the Contract Administrator written notice to proceed, or
- c) despite previous warning by the Contract Administrator in writing is failing to proceed with the Survey with due diligence or is otherwise persistently or fundamentally in breach of his obligations under the Contract, or
- d) has sub-let any part of the Contract without the written approval of the Owner than the Owner may after giving seven (7) days' notice in writing to the Contractor enter upon the site of the Survey and expel the Contractor there from without thereby avoiding the Contract or releasing the Contractor from any of his obligations or liabilities under the Contract or affecting the rights and powers conferred on the Owner or the Contract Administrator by the Contract and may himself complete the Survey or may employ any other Contractor to complete the Survey and the Owner or such other Contractor may use for such completion so much of the Survey materials and data which have been deemed to become the property of the Owner.

10.2 By the said notice or by further notice in writing within fourteen (14) days of the date thereof the Contract Administrator may require the Contractor to assign to the Owner and if so the Contractor shall forthwith assign to the Owner the benefit of any agreement for the supply of any Survey materials and data and/or for the execution of any work for the purpose of this Contract which the Contractor may have entered into.

11. Corruption

11.1 The Owner shall be entitled to terminate the Contract and to recover from the Contractor the amount of any loss resulting from any such termination if the Contractor shall have practised collusion in tendering for the Contract or shall have employed any corrupt or illegal practice in the obtaining or execution of the Contract.

11.2 The Contractor shall not employ any officers and/or employees in the Owner's service.

12. Copyright

12.1 All original photographs, data and results taken as part of the Contract shall be supplied to the Owner and shall become the sole property of the Owner.

12.2 If the Contractor wishes to use such information for promotional or tender purposes he shall obtain the prior written consent of the Owner, and such consent shall not be unreasonably withheld or delayed.

**GENERAL SURVEY
SPECIFICATIONS**

GENERAL SURVEY SPECIFICATIONS

INDEX

<u>No.</u>	<u>Description</u>	<u>Page</u>
1.	Description of Work	GSS 2
2.	Survey Video	GSS 2, GSS 3
3.	Survey Report	GSS 3
4.	Survey Photographs	GSS 3, GSS 4
5.	Survey Computer Database	GSS 4
6.	Submission of Completed Surveys	GSS 4

GENERAL SURVEY SPECIFICATIONS

1. Description of Work

- 1.1 The work shall include the internal survey of both “cleansed” and “un-cleansed” gravity sewers from 200 mm to 1650 mm in diameter by means of closed circuit T.V. Camera, the computerised collection of survey data and generation of survey reports.
- 1.2 The Contractor shall survey the sewer lengths as listed in Schedule ‘C’ and detailed on the reference plans, and as may be required at other locations so as to determine their existing structural and service condition as regards to:
 - a) infiltration and inflow
 - b) location and condition of connection of sewer laterals
 - c) condition of pipe joints
 - d) condition of pipe walls
 - e) any blockages or obstructions located within the pipe
 - f) water level fluctuations
 - g) any changes in pipe diameter or pipe materials encountered in any section between two manholes
 - h) report on grade of pipe as to whether it is uniform or whether there appears to be sectional settlement
 - i) evaluation of the efficiency of cleaning operations
 - j) service condition
 - k) condition of manholes

2. Survey Video

Permanent colour digital video recordings of the survey length shall be taken. For the colour video to be provided under the contract, the following shall apply:

- a) The video shall be recorded in the same sequence as the reports.
- b) Digital video recordings shall be in the MPEG format and recorded on CD or DVD disc media type. All video CD/DVD disc media including jewel cases shall be supplied by the Contractor and shall be best quality high grade new and unused prior to recording.
- c) Video recordings shall be of the original subjects.
- d) Survey of any specific sewer length shall not be recorded on more than one (1) CD or DVD disc.

- e) Video CD/DVD disc identification numbers shall consist of the last two (2) digits of the Contract year and a video CD/DVD disc number consisting of three (3) digits and numbered consecutively starting from 001 (i.e. 02-001, 02-002, ...)
- f) Video CD/DVD disc and jewel cases shall be clearly labelled as to their contents which shall include as a minimum the location, survey identification, date of survey, sewer length identification, size and the duty of the sewer.

3. Survey Report

- 3.1 One (1) computer generated report for each sewer length surveyed in the same sequence as the video recordings shall be provided. A new survey report shall be started for each sewer length between two (2) consecutive manholes. All measurements and dimensions shall be in metric units.
- 3.2 The CCTV survey report shall include the heading, observations and defects for each sewer length surveyed based on the sewer condition reporting format detailed on Schedule 'B'.

4. Survey Photographs

For the colour photographs to be provided under the contract, the following shall apply:

- a) Photographs shall be clearly identified in relation to the location, sewer length, duty, survey direction, chainage, date and time when photograph was taken.
- b) Where observations exist at adjacent points, photographs should not be taken at intervals of less than two (2) metres unless absolutely necessary to show the second observation.
- c) All photographs relating to a specific survey of a sewer length shall be kept together in order of ascending chainage and included with the report. Photo numbers for each specific sewer length shall consist of three (3) digits and shall be numbered consecutively starting from 001.
- d) Digital colour photographs shall be of a quality comparable to colour photographs developed from film and shall be in JPEG format. The naming convention for a digital photo file shall consist of the prefix "SEW", followed by the Job No and finally the Photo No (i.e. SEW-3452-001).
- e) Photographs shall be in colour, clear, durable, and shall be approximately 125mm x 90 mm (printed equivalent).
- f) All colour photographs shall be of the original subjects rather than photos taken from a video monitor.

- g) The annotation on the photograph shall be clearly visible and in contrast to its background and positioned as not to interfere with the subject of the photograph. The figure size shall not be greater than 5 mm and shall be type printed.
- h) Photographs shall be taken of defects and observations in the sewer length, as specified in Schedule 'B', and such other locations as specified in the provisions of this Contract.

5. Survey Computer Database

For the survey computer database to be provided under the contract, the following shall apply:

- a) The computer database shall consist of a CCTV Header Section and a CCTV Detail Section as specified in Schedule 'A-1' and Schedule 'A-2' respectively. The database shall be provided in ACCESS (.mdb) format, and shall include complete data for all Survey reports submitted.
- b) Data shall be recorded on best quality high grade new and unused compact disc (CD) or DVD disc media checked for software viruses prior to submission. All CD or DVD discs and jewel cases shall be supplied by the Contractor.
- c) The Contractor shall retain and make available copies of data disks for the duration of the Contract.

6. Submission of Completed Surveys

- 6.1 The Contractor shall submit his survey report(s) together with his survey quality assurance certificate and supporting video recording(s) within ten (10) working days of the completion of the survey(s) for a specific sewer length and before submission of his account.
- 6.2. The Contractor shall submit his survey computer database and digital photos within ten (10) working days of completion of all surveys and before submission of his final account.
- 6.3 The Owner's representative shall certify information submitted for record purposes only and the Contract Administrator shall have sole power to authorise payment if payment is due.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

INDEX

<u>No.</u>	<u>Description</u>	<u>Page</u>
1.	Lineal Measurement	TS 2
2.	Data Display and Video Recording.....	TS 2
3.	General Camera Position	TS 3
4.	Photograph Camera Position	TS 3
5.	Picture Quality.....	TS 3

TECHNICAL SPECIFICATIONS

1. Lineal Measurement

- 1.1 The CCTV monitor display shall incorporate an automatically updated record in metres and tenths of a metre of the metreage of the camera position from the set-up point at the start of the survey along the line of the sewer. This record shall be clearly visible on the recording of the survey and free from any distortion. The Contractor shall use a suitable metering device which enables the survey length to be accurately measured to $\pm 1\%$ or $\pm 0.3\text{m}$ whichever is the greater. The metre reading entered on to the data display at the start of the survey must allow for the distance from the accepted start of sewer (centre of manhole) to the "initial point of observation" of the camera. All dimensions shall be metric.
- 1.2 When requested by the Contract Administrator in writing at any time during the course of the Survey, the Contractor shall demonstrate that the above tolerance is being complied with. If the Contractor fails to meet the required standard of accuracy the Contract Administrator shall instruct the Contractor to provide a new device to measure the chainage. The Contract Administrator may at his discretion instruct, in writing, the Contractor to re-survey those lengths of sewer surveyed with the original measuring device and/or failing to meet the metering tolerance specification.

2. Data Display and Video Recording

- 2.1 A data generator shall electronically generate and clearly display on the viewing monitor and video recording a continuous record of data in alpha-numeric form containing the following minimum information:
 - a) Automatic update of the camera's metreage position in the sewer line from adjusted zero
 - b) Start and end manhole reference numbers for the sewer line
- 2.2 The size and position of the data display shall be such as not to interfere with the main subject of the picture. At the start of each survey length, the following additional information shall be electronically generated and displayed on the monitor and video recording:
 - a) Date of survey
 - b) Time of start of survey
 - c) Road name/location
 - d) Direction of survey
 - e) Sewer size and duty

3. General Camera Position

- 3.1 The camera shall be so positioned as to reduce the risk of picture distortion and misinterpretation. The camera lens shall be positioned centrally within the sewer and looking along the axis of the sewer. The camera should be sized and positioned to correspond to the diameter of the sewer.
- 3.2 The camera shall be “pan and tilt” capable. The camera operator shall turn the camera to look directly into lateral connections, and note the presence and nature of flow, and any condition defects of the connection/junction.

4. Photograph Camera Position

Where a photograph is taken to illustrate a specific defect, it shall occupy the central part of the photograph and be clearly in focus and accurately reflect the defect. If necessary a second photograph shall be taken at the location to put the defect depicted in the specific photographs into perspective in the overall context of the sewer.

5. Picture Quality

The photographic camera system and suitable illumination shall be capable of providing an accurate, clear and in-focus record of the sewer's internal condition. The adjustment of focus/aperture shall give a focal range from near objects to infinity. The illumination shall be capable of allowing the camera to operate in all sewers at an iris setting providing an adequate depth of field for the size of sewer being surveyed.

**QUALITY CONTROL
SPECIFICATIONS**

QUALITY CONTROL SPECIFICATIONS

INDEX

<u>No.</u>	<u>Description</u>	<u>Page</u>
1.	Control Photographs, Videos, Reports and Data Formats	QCS 2
2.	Contractor's Quality Assurance	QCS 2
3.	Owner's Quality Assurance	QCS 3

QUALITY CONTROL SPECIFICATIONS

1. Control Photographs, Videos, Reports and Data Formats

The Contractor's sample of recently completed sewer survey work submitted with the Tender shall be held by the Contract Administrator for the duration of the Contract and shall be used as a control against which the Contractor's performance shall be measured. If, in the opinion of the Contract Administrator, any reports, data bases, photographs and/or video recordings provided under the Contract fall significantly below the standard of the approved sample, the work in question shall be re-executed.

2. Contractor's Quality Assurance

2.1 The Contractor shall be responsible for quality assurance of the accuracy and consistency of the survey report and materials produced by his/her surveyor. Accuracy for this contract shall be arrived as follows:

a) Survey Header Data-Schedule 'A-1'

$$\frac{\text{No. of entries required less no. of entries with errors and omissions}}{\text{No. of entries required}} \times 100\%$$

b) Survey Details Data-Schedule 'A-2' and 'B'

$$\frac{\text{No. of metres surveyed less no. of metres with errors and omissions}}{\text{No. of metres surveyed}} \times 100\%$$

2.2 The minimum levels of accuracy to be attained for this contract are:

- | | |
|--------------------------------|-----|
| a) Survey Header Data | 95% |
| b) Survey Details Data | 85% |
| c) Lowest acceptable tolerance | 75% |

2.3 Should the Contractor fail to achieve the expected accuracy, the Contract Administrator shall require the Contractor to re-code and re-submit the "failed" survey report(s) as stipulated in the Owner's quality assurance procedure (QCS item 3).

2.4 Any surveyor whose quality assurance results fall below the lowest acceptable tolerance on more than three (3) occasions shall be deemed by the Owner to have failed his quality control criteria and may be invalidated from acting further on this Contract until he has re-attended and passed a recognised CCTV pipeline inspection certification training program.

2.5 The Contract Administrator shall be entitled to audit periodically, as required, the Contractor's quality assurance system and be present when assessments are being computed.

3. **Owner's Quality Assurance**

The Owner will carry out quality assurance checks separate to that required of the Contractor. All survey reports shall be assigned to a quality "control unit" by the Owner. For this contract, five (5) survey lengths, of no particular sequence, shall comprise a "control unit". The total metreage comprising each "control unit" shall be randomly checked by the Owner at a 5-10% sampling rate. Should any "control unit" fail to achieve the specified tolerances for this contract, the Contract Administrator shall require the Contractor to re-check, re-code and re-submit all surveys comprising the "control unit" (including omitted or below standard photos and video tapes) at the expense of the Contractor.

FORM OF TENDER

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

FORM OF TENDER

We, the undersigned Contractor(s) have
carefully examined the attached documents as herein
listed and forming part of this tender

**DOCUMENTS
INCLUDED
IN CONTRACT**

Notice to Tenderers on City of Welland Projects
Special Instructions to Bidders
Special Provisions - Supplementary
General Conditions - Supplementary
General Survey Specifications
Technical Specifications
Quality Control Specifications
Form of Tender
Agreement to Bond
Form of Contract
Figure 1 - Sewer Mains Requiring CCTV in 2009
Schedules
Addenda (if applicable)
Niagara Peninsula Standard Contract Document
OPS General Conditions of Contract

and have carefully examined the site and location of the work to be done under this contract.
We, the undersigned Contractor(s), understand and accept the said drawings and contract
documents, and, for the prices set forth in this Tender, hereby offer to furnish all machinery,
equipment, labour, tools, apparatus, and other means of inspection, furnish all materials
except as otherwise specified in the Contract, and to complete the work in strict accordance
with the drawings and contract documents referred to above, for the total tender price of

_____ Dollars.

(\$ _____) *excluding G.S.T.*

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

We acknowledge that we have received Addendum/Addenda No.*_____ inclusive, And that all changes specified in the Addendum/Addenda have been included in the prices submitted.

We agreed to commence work as specified to proceed continuously to the completion as specified in the Contract and to complete all the work by **October 1, 2009.**

We agree that this tender is to continue open to acceptance and irrevocable until the formal contract has been executed by the successful tenderer for the said work, and the bond or bonds as specified have been executed by the approved surety or sureties, and that the Owner may, at any time, within forty-five (45) calendar days of closing date, accept this tender without notice, whether any tender has been previously accepted or not.

- to be filled in by Tenderer.

**OFFERED ON BEHALF
OF THE CONTRACTOR**

Signature/Title

Signature/Title

Company Name

Address

Witness

Date

ADDENDA

**COMMENCEMENT
AND
COMPLETION**

**TENDER IS
OPEN TO
ACCEPTANCE &
IRREVOCABLE**

**Insert Workers'
Compensation Board
Account No.**

Contractor's Seal

Witness

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

NOTE:

- (a) If the Tenderer is a Corporation, the Corporate Seal must be affixed under the signature of a duly authorized officer or officers of the Corporation.
- (b) If the Tenderer is not a Corporation or a Partnership, the Tenderer must sign in the presence of a witness who must also sign.
- (c) If the Tenderer is a Partnership, each member of the Partnership must sign in the presence of witness who must also sign.

NOT FOR SUBMISSION

SCHEDULE OF TENDER UNIT PRICES

JOB NAME: CCTV Camera Survey of Gravity Sewers 2009

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
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Section: Part A - Lump Sum and Measured Works

A1	SPC-A1	Bonding GST not applicable.	1.0	l.s.		
A2	3.5	Site Setup - Not Requiring Man Entry into Manhole	110.0	ea		
A3	3.5	Site Setup - Requiring Man Entry into Manhole	50.0	ea		
A4	3.5	CCTV Camera Survey & Reporting - Gravity Sewers less than 1200mm Dia.	19609.0	m		
A5	3.5	CCTV Camera Survey & Reporting - Gravity Sewers from 1200mm up to 1650mm Dia.	573.0	m		
A6	3.5	CCTV Camera Survey & Reporting - Gravity Sewers from 1650mm up to 2400mm Dia.	0.0	m		
A7	4.4	Photographs	500.0	ea		

Part A - Lump Sum and Measured Works TOTAL

Section: Part B - Contract Rates for Day Works

B1	3.6	CCTV Camera Survey & Reporting - Gravity Sewers less than 1200mm Dia.	10.0	8 hr shift		
B2	3.6	CCTV Camera Survey & Reporting - Gravity Sewers from 1200mm up to 2400mm Dia.	3.0	8 hr shift		

Part B - Contract Rates for Day Works TOTAL

SCHEDULE OF TENDER UNIT PRICES

JOB NAME: CCTV Camera Survey of Gravity Sewers 2009

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
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SCHEDULE OF TENDER UNIT PRICES

TENDER SUMMARY

JOB NAME: CCTV Camera Survey of Gravity Sewers 2009

Part A - Lump Sum and Measured Works			\$
Part B - Contract Rates for Day Works			\$
Total Tender - All Applicable Parts			\$

LIST OF SUB-CONTRACTORS - STATEMENT "A"

The bidders shall list hereunder the names of all sub-contractors intended to be used in the execution of this work subject to the approval of the Contract Administrator.

All work not performed directly by the Contractor's forces shall be included in this list. Unless this list is properly completed, the Tender may be disqualified. All changes to this list must be approved by the Contract Administrator.

SUB-TRADE	NAME OF SUB-CONTRACTOR	ADDRESS OF SUB-CONTRACTOR

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

TENDERER'S EXPERIENCE IN SIMILAR WORK - STATEMENT "B"

YEAR COMPLETED	DESCRIPTION OF WORK	FOR WHOM WORK PERFORMED AND PERSON TO CONTACT	VALUE

FEDERAL GOODS AND SERVICES TAX - STATEMENT "C"

The Contractor shall NOT include any amount in his tender price for the Goods and Services Tax (G.S.T.). Any amount to be levied with respect to the G.S.T. will be included as a separate item on the payment certificate. The appropriate G.S.T. levy will be paid to the Contractor in addition to the amount approved by the Contract Administrator for work performed under the contract and will, therefore, not affect the amount of the contract. The Contractor will be required to make the appropriate remittance to Revenue Canada in accordance with the legislation.

- i) Total Tender Price\$ _____
- ii) Estimated Cost of Goods and Services Tax\$ _____
- iii) Total Contract Amount [(i) + (ii)]\$ _____
- iv) G.S.T. Registration Number: _____

Company Name **Contractor's Signature(s)**

Address **Contractor's Seal**

Witnesses: _____

AGREEMENT TO BOND

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

AGREEMENT TO BOND

We, the undersigned, hereby agree to become bound as Surety for:

.....
.....

in a bond or irrevocable letter of credit totaling One Hundred Per Cent (100%) of the contract amount, and conforming to the Instruments of Contract attached hereto, for the full and due performance and maintenance of the works shown as described herein if the Tender for **CCTV Camera Survey of Gravity Sewers** is accepted by the Owner. We also agree to a bond or irrevocable letter of credit as surety for the payment of the cost of all labour and materials for an amount equal to 100% of the contract sum used by the contractor in due performance of his work.

It is a condition of this Agreement that if the above mentioned Tender is accepted, an application for a Performance Bond and Labour and Materials Payment Bond, or irrevocable letter of credit as surety must be completed with the undersigned within fourteen (14) days of acceptance of the tender related thereto, otherwise this Agreement shall be null and void.

Dated this _____ **day of** _____, 2009 .

Name of Bonding Company or Surety Institution

Signature of Authorized Person Signing for Company

(Company Seal)

Position

**AGREEMENT BETWEEN OWNER
AND CONTRACTOR
(FORM OF CONTRACT)**

AGREEMENT BETWEEN OWNER AND CONTRACTOR

This Agreement made on the _____ day of _____
in the year _____

by and between

THE CORPORATION OF THE CITY OF WELLAND

hereinafter called the “Owner”

and

hereinafter called the “Contractor”

witnesses: that the parties agree as follows

ARTICLE A-1 THE WORK

The Contractor shall:

- (a) Perform the Work required by the Contract Documents for **CCTV Camera Survey of Gravity Sewers** which have been signed by the parties, and which were prepared by **The Corporation of the City of Welland** acting as hereinafter called the Engineer.
- (b) Do and fulfill everything indicated by this Agreement, and
- (c) Commence _____ and attain completion of the Work, as provided for in the Contract and as certified by the Contract Administrator, Lara Widdifield, Infrastructure Planning Technologist.

Tender No.: ENG09-15
Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

ARTICLE A-2 CONTRACT DOCUMENTS

The following is an exact list of the Contract Documents referred to in Article A-1 of this Agreement. This list is subject to subsequent amendments in accordance with the provisions of the Contract and agreed upon between the parties. (List Contract Documents Below).

NOT FOR SUBMISSION

ARTICLE A-3 CONTRACT PRICE

- (a) The quantities shown in the Schedule of Contract Unit Prices are estimated. The Tender Price shall be the final sum of the products of the actual quantities that are incorporated in, or made necessary by the Work, as confirmed by count and measurement, and the appropriate Tender Unit Prices, together with any adjustments that are made in accordance with the provisions of the Contract Documents.
- (b) The Estimated Tender Price shall be the sum of the products of the estimated quantities and the appropriate Tender Unit Prices in the schedule.
- (c) Schedule of Tender Unit Prices, as per pages FOT 4 to FOT 5, included as part of this Contract.
- (d) Based on the Schedule of Unit Prices, refer to in Article A-3 (c) the tender price is a maximum of
\$ _____

(\$ _____) in Canadian Funds
Excluding G.S.T.
- (e) Change orders are subject to approval

ARTICLE A-4 PAYMENT

- (a) The Owner shall pay the Contractor in Canadian funds for the performance of the Contract, the amounts being determined by actual measured quantities of the individual work items contained in the Schedule of Tender Unit Prices in Article A-3 (c) of this Agreement, and measured in accordance with the methods of measurement given in the specifications.
- (b) Subject to applicable legislation and the provisions of the Contract Documents the Owner shall:
 - (1) make monthly payments to the Contractor on account of the work performed as certified by the Contract Administrator, and
 - (2) upon satisfactory completion of the Work or any part thereof, as certified by the Contract Administrator pay to the Contractor the unpaid balance of any holdback monies then due, and
- (c) If the Owner fails to make payments to the Contractor as they become due under the terms of this Contract or in an award by arbitration or court, interest of (Prime Rate) percent (%) per annum on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

ARTICLE A-5 RIGHTS AND REMEDIES

- (a) The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.
- (b) No action or failure to act by the Owner, Contract Administrator or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence of any breach thereunder, except as may be specifically agreed in writing.

ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES

Communications in writing between the parties or between them and the Contract Administrator shall be considered to have received by the addressee on the date of delivery if delivered by hand to the individual or to a member of the firm or to an officer of the Corporation for whom they are intended or if sent by fax, to have been delivered within five (5) working days of the date of mailing, or dispatch when addressed as follows:

The Owner at 60 East Main Street
Street and Number and Postal Box Number, if applicable

Welland, ON L3B 3X4
Office or District, Province, Postal Code

The Contractor at _____
Street Number and Postal Box Number, if applicable

Post Office or District, Province, Postal Code

The Contract Administrator at 60 East Main Street
Street Number and Postal Box Number, if applicable

Welland, ON L3B 3X4
Post Office or District, Province, Postal Code

ARTICLE A-7 LAW OF THE CONTRACT

The law of the Place of Work shall govern the interpretation of the Contract.

ARTICLE A-8 LANGUAGE OF THE CONTRACT

This Agreement is drawn in English at the request of all parties hereto.

ARTICLE A-9 SUCCESSION

The General Conditions of the Unit Price Contract hereto annexed, and the other aforesaid Contract Documents, are to be read into and form part of this Agreement and the whole shall constitute the Contract between the parties and subject to law and the provisions of the Contract Documents shall ensure to the benefit of and be binding upon the parties hereto, their respective heirs, legal representatives, successors and assigns.

In witness whereof the parties hereto have executed this Agreement under their respective corporate seals and by the hands of their proper officers thereunto duly authorized.

Signed, Sealed and Delivered

In the presence of

Approved

City
Engineer _____

Solicitor _____

"I have the authority to bind The Corporation"

Signature

THE CORPORATION OF THE CITY OF WELLAND

per _____ Mayor

per _____ Clerk

FIGURE 1

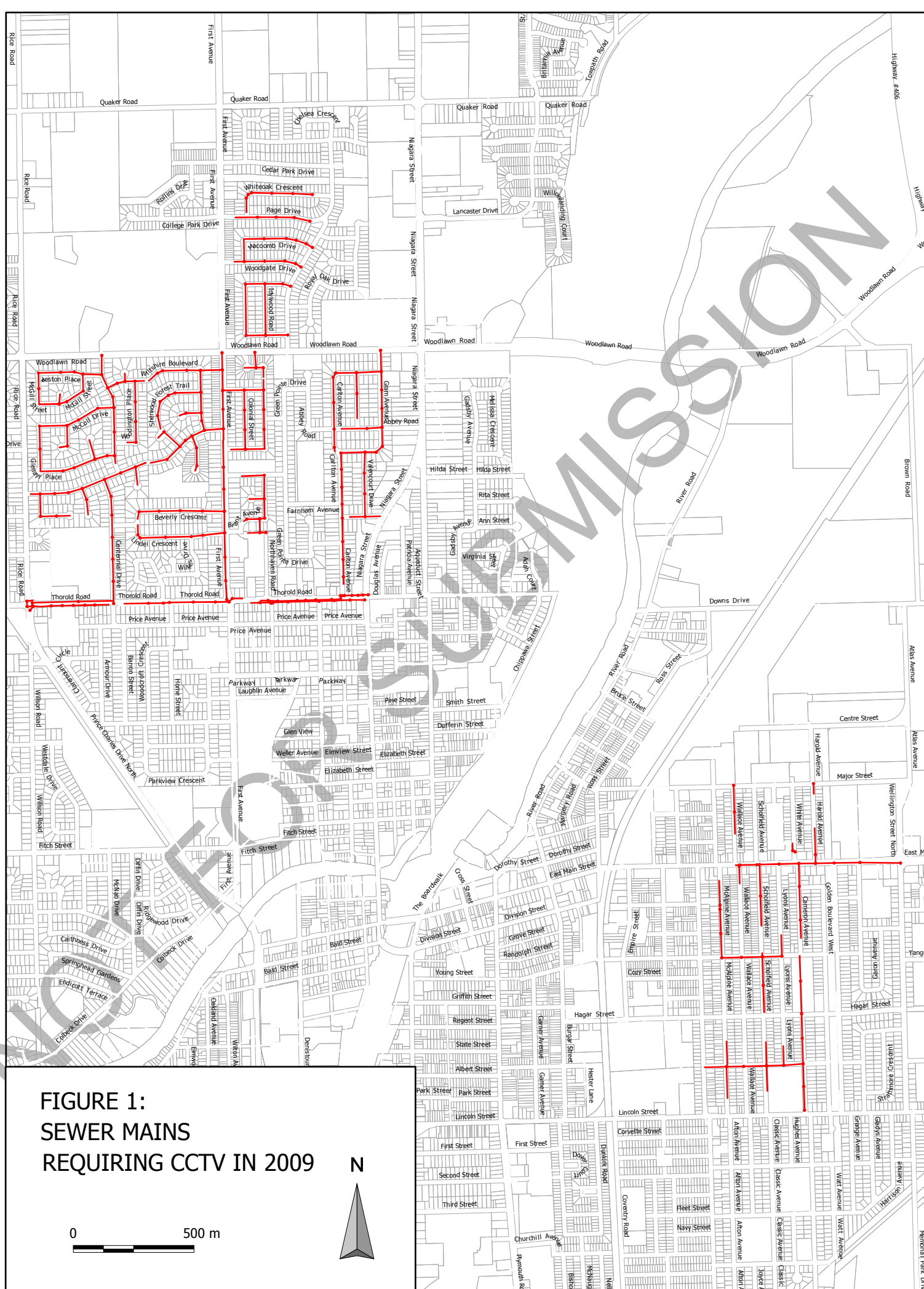


FIGURE 1:
SEWER MAINS
REQUIRING CCTV IN 2009

0 500 m



SCHEDULES

SCHEDULES

I N D E X

<u>No.</u>	<u>Description</u>	<u>Page</u>
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2.	Schedule A-2 – Condition Details Reporting Requirements	SCH 4
3.	Schedule B – Survey Defect Reporting and Photo Requirements	SCH 5
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Ref. No.: 09 – 88
CCTV Camera Survey of Gravity Sewers

SCHEDULE A-1 SURVEY HEADER REPORTING REQUIREMENTS				
Field Name	Data Type	Field Properties	Req'd	Notes
ID	AutoNumber		Y	SURVEY NUMBER
SURVEYEDBY	Text	12	Y	OPERATOR'S INITIALS
CONTRACTNUMBER	Text	8	Y	CITY OF WELLAND NUMBER
JOBNUMBER	Text	10	Y	CONTRACTOR'S JOB NUMBER
CATCHMENT	Text	10	N	
DIVISION	Number	Byte	N	
DISTRICT	Text	3	N	
PIPELENGTHREF	Text	11	Y	CITY OF WELLAND PIPE LENGTH ID#
DATE	Date/Time		Y	YYYY:MM:DD
TIME	Date/Time		Y	
LOCATION	Text	50	Y	CITY OF WELLAND
STARTMANHOLE	Text	10	Y	CITY OF WELLAND MH ID#
SDEPTH	Number	Single	Y	
SCOVER	Number	Single	N	
SINVERT	Number	Single	N	
FINISHMANHOLE	Text	10	Y	CITY OF WELLAND MH ID#
FDEPTH	Number	Single	Y	
FCOVER	Number	Single	N	
FINVERT	Number	Single	N	
USESEWER	Text	1	Y	C=COMBINED F=FOUL S=STORM/SURFACE WATER T=TRADE EFFLUENT W=WATERCOURSE X=OTHER Z=UNKNOWN
DIRECTION	Text	1	Y	U=UPSTREAM D=DOWNSTREAM
SIZE1	Number	Integer	Y	PIPE DIAMETER IN mm
SIZE2	Number	Integer	Y	ENTER IN mm IF PIPE NOT ROUND. IF PIPE = ROUND, LEAVE BLANK
SHAPE	Text	1	Y	C=CIRCULAR E=EGG O=OVAL R=RECTANGULAR
MATERIAL	Text	3	Y	AC=ASBESTOS CONCRETE BR=BRICK CI=CAST IRON CO=CONCRETE PVC=POLYVINYLCHLORIDE PE=POLYETHYLENE ST=STEEL VC=VITRIFIED CLAY

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Field Name	Data Type	Field Properties	Req'd	Notes
LINING	Text	3	Y	IS=SOFT INVERSION TYPE
PIPELENGTH	Number	Single	Y	PIPE SEGMENT LENGTH
TOTALLENGTH	Number	Single	Y	PIPE RUN LENGTH (MH TO MH)
YEARLAID	Text	4	N	
VIDEONUMBER	Text	5	Y	DISK NUMBER
COMMENTS	Text	50	Y	ANY ADDITIONAL INFO
PURPOSE	Text	1	Y	A=STRUCTURAL/OPERATIONAL B=INFILTRATION/INFLOW C=POST-CONSTRUCTION ASSESSMENT D=PRE-ADOPTION E=PREACCEPTANCE F=SAMPLE SURVEY G=PLANNING SURVEY H=RESURVEY-ANY REASON X=OTHER Z=UNKNOWN
SEWERCATEGORY	Text	1	N	
PRECLEANING	Text	1	Y	Y=YES N=NO
WEATHER	Text	1	Y	1=DRY 2=HEAVY RAIN 3=LIGHT RAIN 4=SHOWERS 5=SNOW
LOCATIONCODE	Text	1	N	
FURTHERDETAILS	Text	48	Y	ADDITIONAL LOCATION INFORMATION

SCHEDULE A-2 CONDITION DETAILS REPORTING REQUIREMENTS				
Field Name	Data Type	Field Properties	Req'd	Notes
ID	AutoNumber	Long integer	Y	Survey Number
VIDEONUMBER	Date/Time	hh:mm:ss	Y	Video counter digits at which the observed WRC CODE is noted (hrs:min:sec)
PHOTOGRAPHNUMBER	Number	Integer	Y	The photo number of the observed WRC CODE.
DISTANCE	Number	Single	Y	Chainage from start MH to location of specified code defect.
CONTINUOUSDEFECT	Text	2	Y	Indicate start or finish of continuous defect by letters S=Start F=Finish followed by number identifier.
CODE	Text	4	Y	Defect code as specified on Schedule 'B'
DIAMETER_DIMENSION	Number	Integer	Y	Diameter/Dimension of connection or junction in mm
CLOCKFROM	Number	Integer, "00"	Y	A clock reference used to describe the radial position of a WRC CODE (single point or the starting point in a clockwise direction)
CLOCKTO	Number	Integer, "00"	Y	A clock reference used to describe the radial position of the ending point of a WRC CODE (clockwise direction)
PERCENTAGE	Number	Byte	Y	Percentage area loss due to defect
INTRUSION	Number	Integer	Y	Intrusion of connection in mm
JOBNUMBER	Text	10	Y	Contractor's job number
REMARKS	Text	34	Y	Additional Information

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SCHEDULE B SURVEY DEFECT REPORTING AND PHOTO REQUIREMENTS								
WRC Detail Code	Detail Description	⁽¹⁾ Displacement Photo Sampling Interval (m)	Nominal Diameter or Dimension (mm)	At o'clock	To o'clock	% Dia. Loss	Intrusion (mm)	Remarks
B(J)	Broken pipe	5		✓	⁽²⁾	⁽³⁾		
BR	Branch major =>900 mm		✓	✓	✓			Note Type of flow if any is visible – refer to FW codes.
CC(J)	Circumferential crack			✓	✓			
CL(J)	Longitudinal crack			✓				
CM(J)	Multiple cracks			✓	✓			
CN	Connection		✓	✓				Note Type of flow if any is visible – refer to FW codes.
CNI	Connection intrudes		✓	✓			+/-5	Note Type of flow if any is visible – refer to FW codes.
CU	Camera underwater							
CX	Connection defective		✓	✓				Note Type of flow if any is visible – refer to FW codes.
CXI	Defective connection intrudes		✓	✓			+/-5	Note Type of flow if any is visible – refer to FW codes.
D(J)	Deformed sewer	5				+/-5%		
DB	Displaced bricks	5		✓	⁽²⁾	⁽³⁾		
DC	Diameter/dimension change		✓					Note horizontal dimension change if non-circular sewer
DE(J)	Debris					+/-5%		Note the nature of the debris if obvious
DEG(J)	Debris grease					+/-5%		
DES(J)	Debris silt					+/-5%		
DI	Dropped invert >20mm, gap (brick sewers only)						+/-20	
EH(J)	Encrustation heavy >20% diameter loss					+/-5%		Note if encrustation appears below / in / around / from a connection or junction
EL(J)	Encrustation light <5% diameter loss							Note if encrustation appears below / in / around / from a connection or junction
EM(J)	Encrustation medium 5-20% diameter loss					+/-5%		Note if encrustation appears below / in / around / from a connection or junction
ESL(J)	Encrustation scale light <5% diameter loss							

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SCHEDULE B SURVEY DEFECT REPORTING AND PHOTO REQUIREMENTS								
WRC Detail Code	Detail Description	⁽¹⁾ Displacement Photo Sampling Interval (m)	Nominal Diameter or Dimension (mm)	At o'clock	To o'clock	% Dia. Loss	Intrusion (mm)	Remarks
ESH(J)	Encrustation scale heavy >20% diameter loss					+/-5%		
ESM(J)	Encrustation scale medium 5-20% diameter loss					+/-5%		
FC(J)	Circumferential fracture	5		✓	✓	(3)		
FL(J)	Longitudinal fracture	5		✓		(3)		
FM(J)	Multiple fractures	5		✓	✓	(3)		
FWC	Clear Flow in Incoming pipe			✓		+/-5%		Invert of incoming pipe is visible through flow
FWT	Turbid Flow in Incoming pipe			✓		+/-5%		Invert of incoming pipe is not visible through flow
GO	General observation							
GP	General photograph number							Note the nature of the photograph
H(J)	Hole in sewer	5		✓	(2)	(3)		
ID(J)	Infiltration dripper			✓	(2)			
IG(J)	Infiltration gusher			✓	(2)			
IR(J)	Infiltration runner			✓	(2)			
IS(J)	Infiltration seeper			✓	(2)			
JDL	Joint displaced large >1.5 pipe thickness							
JDM	Joint displaced medium 1.0 to 1.5 pipe thickness							
JN	Junction		✓	✓				Note Type of flow, if any is visible, as a separate entry – see FW codes FWC or FWT
JX	Junction defective		✓	✓				Note Type of flow, if any is visible, as a separate entry – see FW codes FWC or FWT.
LC	Lining of sewer changes							Note the type of liner if obvious
LD	Line goes down							
LL	Line goes left							

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SCHEDULE B SURVEY DEFECT REPORTING AND PHOTO REQUIREMENTS								
WRC Detail Code	Detail Description	⁽¹⁾ Displacement Photo Sampling Interval (m)	Nominal Diameter or Dimension (mm)	At o'clock	To o'clock	% Dia. Loss	Intrusion (mm)	Remarks
LN	Lining defect			✓	(2)			Note the nature of the associated defect
LR	Line goes right							
LU	Line goes up							
MB	Missing bricks	5		✓	(2)			
MC	Material change							Note from 'material type' to 'material type'
MH	Manhole							Note MH reference and location; note any infiltration, encrustation, or other significant defects in the manhole.
MM	Mortar missing medium 15 to 50 mm			✓	(2)			
MS	Mortar missing surface <15 mm			✓	(2)			
MT	Mortar missing total >50 mm			✓	(2)	(3)		
OB(J)	Obstruction			opt	(2)	+/-5%		Note the nature of the associated obstruction
OJL	Open joint large >1.5 pipe thickness							
OJM	Open joint medium 1.0 to 1.5 pipe thickness							
PC	Pipe length change		✓					
RF(J)	Fine roots							
RM(J)	Mass roots					+/-5%		
RT(J)	Tap root >10mm							
SA	Survey abandoned							Note the nature of the survey abandonment
SC	Shape of sewer change							
SSL(J)	Surface spalling severe- deep voids & exposed re-bars			✓	(2)			
SSM(J)	Surface spalling moderate- pocking &/or exposed aggregate			✓	(2)			
SSS(J)	Surface spalling slight- surface loss			✓	(2)			

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SCHEDULE B SURVEY DEFECT REPORTING AND PHOTO REQUIREMENTS								
WRC Detail Code	Detail Description	⁽¹⁾ Displacement Photo Sampling Interval (m)	Nominal Diameter or Dimension (mm)	At o'clock	To o'clock	% Dia. Loss	Intrusion (mm)	Remarks
SWL(J)	Surface wear severe- deep voids & exposed aggregate			✓	(2)			
SWM(J)	Surface wear moderate- pocking &/or exposed aggregate			✓	(2)			
SWS(J)	Surface wear slight- surface loss			✓	(2)			
V	Vermin							Note type of vermin
WL	Water level					+/-5%		Note "Sump" if water level is due to pipe settlement
X	Collapsed sewer	5						

Notes

- (1) One (1) or two (2) typical photo(s) per sampling interval showing the variation in severity of the defect **only if displacement is evident** with or without combinations of other defects.
- (2) Two (2) clock references required when observation extends beyond one (1) full clock position
- (3) Deformation associated with defect, if present, must be reported to +/-5% Diameter Loss using the defect code "D" as a separate entry

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CCTV Camera Survey of Gravity Sewers

CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

SANITARY SEWER

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
426334SL01	CP	Abbey Road	250	106.8 m	SAN	426334MH02	426324MH01
426344SL01	CP	Abbey Road	250	62.3 m	SAN	426344MH01	426334MH02
416391SL02	AC	Apple Court	250	62.5 m	SAN	416391MH01	416391MH02
416340SL01	AC?	Beverly Crescent	250	83.1 m	SAN	416350MH01	416340MH03
416340SL02	AC?	Beverly Crescent	250	30.5 m	SAN	416340MH03	416340MH02
416350SL01	AC?	Beverly Crescent	250	87.5 m	SAN	416360MH01	416350MH01
416360SL01	AC?	Beverly Crescent	250	91.8 m	SAN	416370MH01	416360MH01
416370SL01	AC?	Beverly Crescent	250	90.9 m	SAN	416380MH03	416370MH01
416380SL01	AC	Brant Avenue	250	15.2 m	SAN	416380MH01	416380MH02
416390SL02	AC	Brant Avenue	250	20.4 m	SAN	416390MH02	416390MH01
416390SL03	AC	Brant Avenue	250	80.9 m	SAN	416390MH01	416391MH01
416390SL04	AC	Brant Avenue	250	52.9 m	SAN	416390MH02	416380MH01
416391SL01	AC	Brant Avenue	250	97 m	SAN	416391MH01	416392MH01
416323SL01	AC	Briarfield Crescent	200	83 m	SAN	416322MH01	416323MH01
416342SL03	AC	Bryon Crescent	200	74.8 m	SAN	416342MH03	416341MH01
416385SL01	AC	Cabot Street	250	89.1 m	SAN	416375MH01	416385MH01
416395SL02	AC	Cabot Street	250	80.3 m	SAN	416385MH01	416395MH01
426227SL01	CP	Carlton Avenue	300	29.5 m	SAN	426227MH02	426227MH01
426228SL01	CP	Carlton Avenue	300	72 m	SAN	426228MH01	426227MH02
426229SL01	CP	Carlton Avenue	375	74.3 m	SAN	426229MH01	426228MH01
426229SL02	CP	Carlton Avenue	450	97.2 m	SAN	426320MH02	426229MH01
426320SL01	PVC	Carlton Avenue	450	57.7 m	SAN	426320MH01	426320MH02
426321SL01	CP	Carlton Avenue	600	70.1 m	SAN	426321MH01	426320MH01
426322SL01	CP	Carlton Avenue	600	68 m	SAN	426323MH03	426322MH01
426322SL02	CP	Carlton Avenue	600	74.2 m	SAN	426322MH01	426321MH01
426323SL01	CP	Carlton Avenue	250	16.8 m	SAN	426323MH02	426323MH01
426323SL02	CP	Carlton Avenue	250	75.6 m	SAN	426324MH02	426323MH02
426324SL01	CP	Carlton Avenue	250	109.8 m	SAN	426325MH01	426324MH02
426325SL01	CP	Carlton Avenue	250	105 m	SAN	426326MH01	426325MH01
426326SL01	CP	Carlton Avenue	250	20.2 m	SAN	426326MH02	426326MH01
416237SL01	AC	Centennial Drive	250	92.1 m	SAN	416236MH02	416237MH01
416238SL01	AC	Centennial Drive	250	91.8 m	SAN	416237MH01	416238MH01
416239SL01	AC	Centennial Drive	250	91.2 m	SAN	416238MH01	416239MH01
416330SL01	AC	Centennial Drive	250	78 m	SAN	416330MH01	416331MH01
416330SL02	AC	Centennial Drive	250	91.3 m	SAN	416239MH01	416330MH01
416331SL01	AC	Centennial Drive	250	75.3 m	SAN	416331MH01	416332MH04
416326SL02	AC	Champlain Avenue	250	79.5 m	SAN	416327MH02	416326MH02
416332SL01	AC	Champlain Avenue	250	31.9 m	SAN	416332MH03	416332MH02
416333SL01	AC	Champlain Avenue	250	98.5 m	SAN	416333MH01	416332MH03
416334SL02	AC	Champlain Avenue	250	101.1 m	SAN	416334MH01	416333MH01
416335SL01	AC	Champlain Avenue	250	42.1 m	SAN	416335MH03	416335MH02
416335SL02	AC	Champlain Avenue	250	44.9 m	SAN	416335MH02	416334MH01
416336SL01	AC	Champlain Avenue	250	60.5 m	SAN	416326MH02	416335MH03
416383SL02	AC	Colonial Street	250	81.2 m	SAN	416384MH02	416383MH02
416384SL01	AC	Colonial Street	250	81.5 m	SAN	416384MH03	416384MH02

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CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
416385SL02	AC	Colonial Street	250	82.4 m	SAN	416385MH01	416384MH03
416300SL01	AC	Cranbrook Crescent	250	92.9 m	SAN	416301MH02	416300MH01
416300SL02	AC	Cranbrook Crescent	250	66 m	SAN	416300MH01	416310MH01
416310SL01	AC	Cranbrook Crescent	200	56.2 m	SAN	416310MH01	416310MH02
426335SL01	CP	Edgewood Avenue	250	86.3 m	SAN	426336MH01	426335MH01
426335SL02	CP	Edgewood Avenue	250	103.3 m	SAN	426335MH01	426334MH01
416313SL01	AC	Fernwood Terrace	250	85.2 m	SAN	416314MH01	416313MH01
416313SL02	AC	Fernwood Terrace	200	34.3 m	SAN	416313MH01	416313MH02
416287SL01	AC	First Avenue	300	77.8 m	SAN		416287MH03
416288SL01	AC	First Avenue	300	97.4 m	SAN	416287MH03	416288MH01
416289SL01	AC	First Avenue	300	101.2 m	SAN	416288MH01	416289MH01
416373SL01	CP?	First Avenue	250	111.7 m	SAN	416382MH01	416373MH01
416374SL04	AC	First Avenue	250	81 m	SAN	416374MH04	416384MH01
416375SL02	AC	First Avenue	250	77.4 m	SAN	416375MH01	416374MH04
416376SL03	AC	First Avenue	300	71 m	SAN	416377MH02	416376MH02
416376SL04	AC	First Avenue	250	85.4 m	SAN	416376MH02	416375MH01
416380SL02	AC	First Avenue	300	88.8 m	SAN	416289MH01	416380MH03
416381SL01	CP?	First Avenue	300	92 m	SAN	416380MH03	416381MH01
416382SL01	CP?	First Avenue	300	91 m	SAN	416381MH01	416382MH01
416383SL01	AC	First Avenue	250	46 m	SAN	416384MH01	
426336SL01	CP	Forest Road	250	86.1 m	SAN	426336MH01	426326MH02
426346SL02	CP	Forest Road	250	102.7 m	SAN	426346MH01	426336MH01
416322SL02	AC	Garner Avenue	250	93 m	SAN	416322MH01	416312MH02
416302SL01	AC	Glenayr Place	250	93.7 m	SAN	416312MH01	416302MH01
416302SL02	AC	Glenayr Place	250	92.9 m	SAN	416303MH01	416302MH01
416303SL01	AC	Glenayr Place	250	94.7 m	SAN	416304MH01	416303MH01
416312SL01	AC	Glenayr Place	250	47.7 m	SAN	416312MH02	416312MH01
416322SL01	AC	Glenayr Place	250	53 m	SAN	416332MH01	416322MH01
416332SL03	AC	Glenayr Place	250	30.9 m	SAN	416332MH03	416332MH01
426343SL01	CP	Gram Avenue	825	78.9 m	SAN	426344MH01	426343MH02
426344SL02	CP	Gram Avenue	825	78.9 m	SAN	426344MH02	426344MH01
426345SL01	CP	Gram Avenue	825	76.5 m	SAN	426345MH01	426344MH02
426346SL01	CP	Gram Avenue	825	87.7 m	SAN	426347MH01	426346MH01
426346SL03	CP	Gram Avenue	825	76.2 m	SAN	426346MH01	426345MH01
416398SL01	AC	Idylwood Road	250	106.6 m	SAN	416397MH02	416399MH01
416399SL01	AC	Idylwood Road	250	106.8 m	SAN	416490MH01	416399MH01
416315SL03	AC	Kline's Avenue	200	40.4 m	SAN	416315MH03	416315MH02
416320SL01	AC	Lamont Drive	200	62.5 m	SAN	416321MH01	416320MH01
416321SL01	AC	Lamont Drive	250	49.1 m	SAN	416321MH02	416321MH01
416249SL01	AC	Lindel Crescent	250	40.4 m	SAN	416249MH02	416340MH01
416249SL02	AC	Lindel Crescent	250	15.5 m	SAN	416249MH01	416249MH02
416259SL01	AC	Lindel Crescent	250	105.3 m	SAN	416259MH01	416249MH01
416269SL01	AC	Lindel Crescent	250	47.9 m	SAN	416279MH01	416269MH01
416269SL02	AC	Lindel Crescent	250	107.3 m	SAN	416269MH01	416259MH01
416279SL01	AC	Lindel Crescent	250	90.8 m	SAN	416289MH01	416279MH01
416364SL01	AC	Little John Court	250	63.6 m	SAN	416374MH01	416364MH02
416364SL02	AC	Little John Court	250	28.5 m	SAN	416364MH02	416364MH01

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CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
416481SL02	AC	Maccoomb Drive	250	93.3 m	SAN	416481MH02	416481MH01
416491SL02	AC	Maccoomb Drive	250	84 m	SAN	416491MH01	416481MH01
426401SL03	AC	Maccoomb Drive	250	42.8 m	SAN	426411MH02	426401MH01
426401SL04	AC	Maccoomb Drive	250	91.9 m	SAN	426401MH01	416491MH01
426411SL03	AC	Maccoomb Drive	250	29.8 m	SAN	426411MH01	426411MH03
426411SL04	AC	Maccoomb Drive	250	43.1 m	SAN	426411MH03	426411MH02
416304SL01	AC	McColl Drive	250	114.3 m	SAN	416314MH01	416304MH01
416314SL01	AC	McColl Drive	250	53.3 m	SAN	416324MH02	416314MH01
416324SL01	AC	McColl Drive	250	92.9 m	SAN	416324MH01	416324MH02
416334SL01	AC	McColl Drive	250	66.4 m	SAN	416334MH01	416324MH01
416305SL01	AC	McGill Street	250	65.4 m	SAN	416305MH02	416305MH01
416305SL02	AC	McGill Street	250	83.4 m	SAN	416315MH03	416305MH01
416306SL02	AC	McGill Street	250	64.6 m	SAN	416306MH01	416305MH02
416315SL01	AC	McGill Street	250	81.1 m	SAN	416325MH01	416315MH01
416315SL02	AC	McGill Street	250	32.8 m	SAN	416315MH01	416315MH03
416326SL03	AC	McGill Street	250	69.9 m	SAN	416326MH01	416325MH01
416383SL03	AC	Northgate Drive	250	59.9 m	SAN	416383MH02	416383MH01
416393SL01	AC	Northgate Drive	250	81.4 m	SAN	416394MH02	416393MH01
416393SL02	AC	Northgate Drive	250	80.1 m	SAN	416383MH02	416393MH01
416394SL01	AC	Northgate Drive	250	81.3 m	SAN	416394MH01	416394MH02
416395SL01	AC	Northgate Drive	250	82 m	SAN	416395MH01	416394MH01
416395SL03	AC	Northgate Drive	250	42.4 m	SAN	416395MH01	416396MH03
416396SL02	AC	Northgate Drive	250	39.2 m	SAN	416396MH01	416396MH02
416396SL03	AC	Northgate Drive	250	30.4 m	SAN	416396MH04	416396MH01
416396SL04	AC	Northgate Drive	250	48.5 m	SAN	416396MH04	416386MH01
416299SL01	AC	NORTHHAVEN EASEMENT	250	50.4 m	SAN	416299MH04	416299MH03
416299SL02	AC	NORTHHAVEN EASEMENT	250	24.7 m	SAN	416299MH02	416299MH04
416390SL01	AC	NORTHHAVEN EASEMENT	250	56.8 m	SAN	416299MH04	416390MH02
416396SL01	AC	NORTHHAVEN EASEMENT	250	63.6 m	SAN	416397MH01	416396MH04
416362SL01	AC	Nottingham Court	250	73.8 m	SAN	416363MH02	416362MH02
416362SL02	AC	Nottingham Court	250	21.9 m	SAN	416362MH02	416362MH01
416363SL04	AC	Nottingham Court	250	52.7 m	SAN	416363MH01	416363MH02
416482SL01	AC	Page Drive	200	91.7 m	SAN	416492MH01	416482MH01
416492SL01	AC	Page Drive	200	77.1 m	SAN	426402MH01	416492MH01
426402SL01	AC	Page Drive	200	74.9 m	SAN	426402MH02	426402MH01
426412SL02	AC	Page Drive	250	66.9 m	SAN	426412MH01	426402MH02
416388SL01	AC	Pinehurst Drive	250	106.9 m	SAN	416387MH01	416389MH02
416389SL01	AC	Pinehurst Drive	250	106.5 m	SAN	416480MH01	416389MH02
416397SL02	AC	Pinehurst Drive	250	80.8 m	SAN	416397MH02	416387MH01
416490SL01	AC	Pinehurst Drive	250	81 m	SAN	416490MH01	416480MH01
426307SL02	AC	Pinehurst Drive	250	92 m	SAN	426307MH02	416397MH02
426400SL02	AC	Pinehurst Drive	250	34.3 m	SAN	426400MH01	426400MH04
426400SL03	AC	Pinehurst Drive	250	73.4 m	SAN	426400MH04	416490MH01
416306SL01	AC	Preston Place	250	91.9 m	SAN	416316MH02	416306MH01
416316SL01	AC	Preston Place	250	56.8 m	SAN	416316MH01	416316MH02
416326SL01	AC	Preston Place	250	77.9 m	SAN	416326MH02	416326MH01
416326SL04	AC	Preston Place	250	36.2 m	SAN	416326MH01	416316MH01

Tender No.: ENG09-15

Ref. No.: 09 - 88

CCTV Camera Survey of Gravity Sewers

CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
416374SL01	AC	Robin Hood Lane	250	40.6 m	SAN	416374MH03	416374MH02
416374SL02	AC	Robin Hood Lane	250	33.2 m	SAN	416374MH02	416374MH01
416375SL01	AC	Robin Hood Lane	250	84.7 m	SAN	416375MH02	416374MH01
416376SL02	AC	Robin Hood Lane	250	91.1 m	SAN	416376MH01	416375MH02
416376SL01	AC	ROBIN HOOD-FIRST EASEMENT	300	90.9 m	SAN	416376MH02	416376MH01
426330SL02	CP	Roger Drive	250	63.1 m	SAN	426330MH01	426330MH02
426340SL01	CP	Roger Drive	250	62.6 m	SAN	426330MH01	426340MH02
416301SL01	AC	Rolling Acres Drive	250	60.3 m	SAN	416311MH02	416301MH02
416301SL02	AC	Rolling Acres Drive	200	39.2 m	SAN	416301MH02	416301MH01
416311SL01	AC	Rolling Acres Drive	250	60 m	SAN	416321MH02	416311MH01
416311SL02	AC	Rolling Acres Drive	250	56.9 m	SAN	416311MH01	416311MH02
416321SL02	AC	Rolling Acres Drive	250	99.8 m	SAN	416332MH04	416321MH02
416332SL02	AC	Rolling Acres Drive	250	72.3 m	SAN	416332MH04	416332MH05
416342SL01	AC	Rolling Acres Drive	250	45.6 m	SAN	416342MH03	416342MH01
416342SL02	AC	Rolling Acres Drive	250	66.5 m	SAN	416332MH05	416342MH03
416352SL01	AC	Rolling Acres Drive	250	69.9 m	SAN	416352MH01	416342MH02
416353SL03	AC	Rolling Acres Drive	250	75.2 m	SAN	416363MH04	416352MH01
416363SL01	AC	Rolling Acres Drive	250	56.7 m	SAN	416374MH03	416363MH01
416363SL02	AC	Rolling Acres Drive	250	32.2 m	SAN	416363MH01	416363MH03
416363SL03	AC	Rolling Acres Drive	250	34.7 m	SAN	416363MH03	416363MH04
416374SL03	AC	Rolling Acres Drive	250	78.5 m	SAN	416384MH01	416374MH03
416353SL01	AC	Sherwood Forest Trail	250	90.1 m	SAN	416363MH04	416353MH02
416353SL02	AC	Sherwood Forest Trail	250	35.4 m	SAN	416353MH02	416353MH01
416354SL01	AC	Sherwood Forest Trail	250	59.4 m	SAN	416355MH03	
416354SL02	AC	Sherwood Forest Trail	250	55.3 m	SAN		416354MH02
416355SL01	AC	Sherwood Forest Trail	250	28.8 m	SAN	416355MH01	416355MH02
416355SL02	AC	Sherwood Forest Trail	250	43.3 m	SAN	416355MH02	416355MH03
416365SL01	AC	Sherwood Forest Trail	250	107.3 m	SAN	416375MH02	416355MH01
416336SL03	AC	Sorel Crescent	250	32.2 m	SAN	416336MH02	416336MH01
426333SL01	CP	Thomson Road	600	99.3 m	SAN	426333MH01	426323MH03
426343SL02	CP	Thomson Road	675	34.8 m	SAN	426343MH02	426343MH01
426343SL03	CP	Thomson Road	675	46.9 m	SAN	426343MH01	426333MH01
426216SL01	VC	Thorold Road	200	93.1 m	SAN	426216MH03	426216MH05
426216SL06	VC	Thorold Road	200	4.6 m	SAN	426216MH03	
426206SL02	VC	Thorold Road	250	6.6 m	SAN	426206MH05	426206MH01
426206SL03	VC	Thorold Road	250	62.2 m	SAN	426206MH01	426206MH02
426206SL06	VC	Thorold Road	250	35.5 m	SAN	426206MH02	426216MH05
416296SL01	VC	Thorold Road	250	7.1 m	SAN	426206MH05	416296MH02
416296SL02	VC	Thorold Road	250	37.6 m	SAN	416296MH01	416296MH04
416296SL05	VC	Thorold Road	250	42.2 m	SAN	416296MH02	416296MH01
426226SL03	VC	Thorold Road	200	62.2 m	SAN	426226MH01	426216MH03
426226SL04	VC	Thorold Road	250	65.1 m	SAN	426237MH01	426226MH01
426237SL03	VC	Thorold Road	250	61.1 m	SAN	426237MH05	426237MH01
416392SL01	AC	Trent Avenue	250	93.2 m	SAN	416392MH01	416382MH02
426330SL01	CP	Valencourt Drive	250	94.8 m	SAN	426331MH01	426330MH01
426331SL01	CP	Valencourt Drive	250	85.3 m	SAN	426332MH01	426331MH01
426332SL01	CP	Valencourt Drive	250	86.7 m	SAN	426333MH01	426332MH01

Tender No.: ENG09-15

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CCTV Camera Survey of Gravity Sewers

CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
436195SL02	VC	Wallace Avenue	300	72.2 m	SAN	436195MH02	436195MH01
416483SL01	AC	Whiteoak Crescent	200	16.9 m	SAN	416493MH02	416483MH02
416483SL02	AC	Whiteoak Crescent	200	58.6 m	SAN	416483MH02	416483MH01
416493SL01	AC	Whiteoak Crescent	250	83.6 m	SAN	426403MH02	416493MH01
416493SL02	AC	Whiteoak Crescent	250	15.7 m	SAN	416493MH01	416493MH02
426403SL01	AC	Whiteoak Crescent	250	87 m	SAN	426403MH01	426403MH02
426413SL01	AC	Whiteoak Crescent	250	81.2 m	SAN	426413MH01	426403MH01
416343SL01	AC	Wilkes Drive	250	85.6 m	SAN	416344MH01	416343MH02
416343SL02	AC	Wilkes Drive	200	37.1 m	SAN	416343MH02	416343MH01
416344SL01	AC	Wilkes Drive	250	82.1 m	SAN	416345MH01	416344MH01
416345SL01	AC	Wilkes Drive	250	85.4 m	SAN	416346MH03	416345MH01
416335SL03	AC	Wiltshire Boulevard	250	44 m	SAN	416335MH03	416335MH01
416336SL02	AC	Wiltshire Boulevard	250	33.2 m	SAN	416335MH01	416336MH02
416346SL01	AC	Wiltshire Boulevard	250	38.6 m	SAN	416346MH03	416346MH01
416346SL02	AC	Wiltshire Boulevard	250	41.1 m	SAN	416336MH02	416346MH03
416356SL01	AC	Wiltshire Boulevard	250	100.2 m	SAN		416356MH01
416356SL03	AC	Wiltshire Boulevard	250	47.9 m	SAN	416356MH02	416346MH02
416366SL01	AC	Wiltshire Boulevard	250	56.7 m	SAN	416376MH01	
416481SL01	AC	Woodgate Drive	200	41 m	SAN	416481MH02	416481MH03
416491SL01	AC	Woodgate Drive	250	84.6 m	SAN	416491MH02	416481MH02
426401SL01	AC	Woodgate Drive	250	45.6 m	SAN	426400MH03	426401MH02
426401SL02	AC	Woodgate Drive	250	83.4 m	SAN	426401MH02	416491MH02
426410SL03	AC	Woodgate Drive	250	26.4 m	SAN	426410MH02	426400MH03
416356SL02	AC	Woodland Drive	250	23.2 m	SAN	416356MH01	416356MH02
TOTAL SANITARY SEWER CCTV				14107 m @ LESS THAN 900mm			

Tender No.: ENG09-15

Ref. No.: 09 - 88

CCTV Camera Survey of Gravity Sewers

CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
STORM SEWER							
446136SL03	CP	East Main Street	1350	107.4 m	COMB	446146MH01	446136MH03
446156SL03	CP	East Main Street	1350	167.7 m	COMB	446166MH05	446146MH01
446113SL02	CP	Cameron Avenue	450	74.3 m	STM	446113MH04	446113MH05
446114SL04	CP	Cameron Avenue	450	139 m	STM	446115MH04	446113MH04
446115SL04	CP	Cameron Avenue	450	94.9 m	STM	446116MH09	446115MH04
446019SL04	CP	Camrose Avenue	1100	101.7 m	STM	446028MH02	446019MH04
446026SL02	CP	Camrose Avenue	1650	98.6 m	STM	446025MH04	446026MH03
446027SL04	CP	Camrose Avenue	1650	93.7 m	STM	446026MH03	446027MH02
446028SL02	CP	Camrose Avenue	1650	105.9 m	STM	446027MH02	446028MH02
446110SL02	CP	CAMROSE-MANCHESTER PARK	300	134.7 m	STM	446019MH04	446111MH02
446111SL02	CP	CAMROSE-MANCHESTER PARK	300	105.1 m	STM	446111MH02	446112MH04
446106SL05	CP	Dunkirk Road	1200	81 m	STM	446116MH08	446106MH07
436196SL03	CP	East Main Street	375	16.6 m	STM	436196MH02	436196MH03
436196SL04	CP	East Main Street	450	71 m	STM	446106MH06	436196MH02
446116SL12	CP	East Main Street	1200	81.8 m	STM	446116MH09	446116MH08
446126SL06	CP	East Main Street	1200	77.3 m	STM	446136MH03	446126MH06
446126SL07	CP	East Main Street	1200	69.3 m	STM	446126MH06	446116MH09
446126SL05	CP	Harold Avenue	375	36.1 m	STM	446126MH06	446126MH05
446127SL03	CP	Harold Avenue	375	110.2 m	STM	446126MH05	446127MH02
446129SL02	CP	Harold Avenue	300	42 m	STM	446129MH02	446128MH02
446112SL03	CP	Lyons Avenue	400	87.9 m	STM	446112MH03	446113MH03
436087SL03	CP	McAlpine Avenue	300	129.9 m	STM	436087MH02	436086MH02
436182SL02	CP	McAlpine Avenue	450	100.2 m	STM	436182MH02	436183MH02
436183SL01	CP	McAlpine Avenue	375	100.6 m	STM	436183MH02	436184MH03
436184SL02	CP	McAlpine Avenue	375	17.3 m	STM	436184MH03	436184MH04
436184SL03	CP	McAlpine Avenue	300	101.6 m	STM	436184MH04	436185MH04
436088SL02		McAlpine Avenue		105.3 m	STM	436087MH02	436088MH02
436087SL02	CP	Paul Street	450	90.2 m	STM	436087MH02	436077MH02
436097SL02	CP	Paul Street	600	71.6 m	STM	436097MH02	436087MH02
446007SL02	CP	Paul Street	600	94.3 m	STM	446007MH02	436097MH02
446007SL04		Paul Street	750	71.1 m	STM	446017MH02	446007MH02
446017SL01	CP	Paul Street	750	80.4 m	STM	446027MH02	446017MH02
446018SL02	CP	Paul Street	750	80.1 m	STM	446017MH02	446018MH02
446007SL03	CP	Scholfield Avenue	300	103.5 m	STM	446007MH02	446006MH02
446008SL02	CP	Scholfield Avenue	300	98.2 m	STM	446007MH02	446008MH02
446100SL02	CP	Scholfield Avenue	375	112 m	STM	446101MH02	446009MH03
446101SL02	CP	Scholfield Avenue	450	117.9 m	STM	446102MH03	446101MH02
446102SL03	CP	Scholfield Avenue	450	15.5 m	STM	446102MH03	
446104SL02	CP	Scholfield Avenue	450	123.1 m	STM	446104MH02	446103MH02
446105SL02	CP	Scholfield Avenue	525	130.29 m	STM	446106MH07	446104MH02
406226SL02	CP	Thorold Road	750	72.8 m	STM	406236MH02	406226MH02
406226SL03	CP	Thorold Road	675	76.5 m	STM	406226MH02	406216MH03

Tender No.: ENG09-15

Ref. No.: 09 - 88

CCTV Camera Survey of Gravity Sewers

CITY OF WELLAND
SCHEDULE C - SURVEY PROGRAM

PIPE RUN No	Material	Corridor_name	Span	Length	TYPE	DOWNSTREAM MH	UPSTREAM MH
406236SL03	CP	Thorold Road	750	72.7 m	STM	406236MH03	406236MH02
406246SL02	CP	Thorold Road	1200	94.7 m	STM	406246MH02	406236MH03
406256SL02	CP	Thorold Road	1200	97.4 m	STM	406256MH02	406246MH02
406266SL04	CP	Thorold Road	1200	94.6 m	STM	406266MH03	406256MH02
406276SL02	CP	Thorold Road	825	132.2 m	STM	406266MH03	406286MH02
406286SL02	CP	Thorold Road	750	87.2 m	STM	406286MH02	406286MH03
406296SL04		Thorold Road	525	26.4 m	STM	406296MH08	416206MH02
406296SL05		Thorold Road	525	22.2 m	STM	406296MH08	406296MH07
406296SL08		Thorold Road	525	25.1 m	STM	406296MH07	416206MH07
416206SL02	CP	Thorold Road	750	73.2 m	STM	416206MH02	416206MH04
416206SL03		Thorold Road	300	21.7 m	STM	406296MH05	416206MH02
416206SL05		Thorold Road	600	13.5 m	STM	416206MH03	416206MH06
416216SL02	CP	Thorold Road	600	190.9 m	STM	416206MH06	416216MH01
416216SL03	CP	Thorold Road	750	45.7 m	STM	416206MH04	416216MH02
416216SL04	CP	Thorold Road	675	46.4 m	STM	416216MH02	416216MH03
416226SL04	CP	Thorold Road	525	139.9 m	STM	416216MH01	416236MH03
416226SL05	CP	Thorold Road	675	47.8 m	STM	416216MH03	416226MH03
416226SL06	CP	Thorold Road	675	40.7 m	STM	416226MH03	416226MH04
416226SL07	CP	Thorold Road	600	58.3 m	STM	416226MH04	416236MH04
416246SL04	CP	Thorold Road	450	99.4 m	STM	416246MH03	
416256SL04	CP	Thorold Road	525	62.2 m	STM	416256MH05	416246MH03
416256SL05	CP	Thorold Road	525	25.1 m	STM	416256MH06	416256MH05
416266SL03	CP	Thorold Road	600	98.7 m	STM	416266MH03	416256MH06
416276SL03	CP	Thorold Road	575	91.3 m	STM	416276MH03	416266MH03
416276SL04	CP	Thorold Road	750	56.8 m	STM	416286MH04	416276MH03
416287SL05	CP	Thorold Road	450	42.5 m	STM	416287MH04	416287MH05
416287SL06	CP	Thorold Road	450	18.9 m	STM	416286MH04	416287MH04
416296SL06	CP	Thorold Road	450	30.4 m	STM	416296MH05	
426206SL07	CP	Thorold Road	675	81 m	STM	426216MH07	426206MH08
426206SL08	CP	Thorold Road	600	40.2 m	STM	426206MH08	416296MH05
426216SL07	CP	Thorold Road	750	34.8 m	STM	426216MH08	426216MH07
426217SL02	CP	Thorold Road	900	41.8 m	STM	426217MH03	426216MH08
426227SL04	CP	Thorold Road	1050	9.9 m	STM	426237MH09	426227MH07
426227SL05	CP	Thorold Road	1050	6.9 m	STM	426227MH07	426227MH06
426227SL06	CP	Thorold Road	1050	14.2 m	STM	426227MH06	426227MH05
426227SL07	CP	Thorold Road	1050	37.6 m	STM	426227MH05	426227MH04
426227SL08	CP	Thorold Road	900	65.7 m	STM	426227MH04	426217MH03
426237SL05	CP	Thorold Road	1050	22.6 m	STM	426247MH03	426237MH06
426237SL06	CP	Thorold Road	1050	19.9 m	STM	426237MH06	426237MH07
426237SL07	CP	Thorold Road	1050	25.3 m	STM	426237MH07	426237MH08
426237SL08	CP	Thorold Road	1050	30.6 m	STM	426237MH08	426237MH09

TOTAL STORM SEWER CCTV 6074.99 m

TOTAL CCTV 20181.99 m

TEMPLATES – ENVELOPES

Name of Tenderer

Street Address

City, Province, Postal Code

TO: City Clerk's Department
THE CORPORATION OF THE CITY OF WELLAND
60 East Main Street
Welland, ON L3B 3X4

TENDER ENVELOPE NO. 1

Tender No.: ENG09-15
Ref. No.: 09 – 88

CCTV Camera Survey of Gravity Sewers

Closing Date: 2:15 p.m., Monday, June 22, 2009

This Envelope Contains ONLY: Agreement to Bond
Tender Deposit Cheque

Name of Tenderer

Street Address

City, Province, Postal Code

TO: City Clerk's Department
THE CORPORATION OF THE CITY OF WELLAND
60 East Main Street
Welland, ON L3B 3X4

TENDER ENVELOPE NO. 2

Tender No.: ENG09-15

Ref. No.: 09 – 88

CCTV Camera Survey fo Gravity Sewers

Closing Date: 2:15 p.m., Monday, June 22, 2009

This Envelope Contains ONLY:

Form of Tender
Addenda, if applicable