

**DRAINAGE REPORT  
FOR THE**

**KLONDYKE & KLONDYKE  
OVERFLOW DRAIN**

**IN THE  
TOWN OF TECUMSEH**



(DRAFT)  
21 JANUARY 2025  
MARK D. HERNANDEZ, P.ENG.  
FILE No. 18-8340  
TECUMSEH FILE NO. E09KL(48)

File No. 18-8340

Mayor and Council  
The Corporation of the Town of Tecumseh  
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## **Drainage Report for the KLONDYKE & KLONDYKE OVERFLOW DRAIN In the Town of Tecumseh**

Mayor and Council:

### **Instructions**

The Municipality received a request from the County of Essex dated 30 April 2018 to repair and improve the various drains along County Road No. 42 as part of the road reconstruction project. Council accepted the request under Section 78 of the Drainage Act and on 27<sup>th</sup> August 2018 appointed Dillon Consulting Limited to prepare a report. The Municipality made a single appointment for the following drains:

- St. Louis Drain
- 11<sup>th</sup> Concession Drain
- Banwell Road Drain
- Klondyke & Branch Drain
- Lesperance Road Drain West & East
- Dame & East Branch Drain

### **Background**

The County of Essex is undertaking the reconstruction of County Road No. 42 which includes construction of new storm sewers to facilitate the change from a rural to an urban road cross section. As part of the same project, 11<sup>th</sup> Concession Road and Banwell Road (which constitute County Road No. 43) will be relocated westerly such that the two roads align at a single intersection with County Road No. 42. The proposed work is recognized to have various impacts to the existing municipal drainage infrastructure and as such the Municipality has made the appointment under the Act to incorporate the new drainage works and rectify any impacts to the remaining municipal drains and associated assessment schedules for future maintenance.

As there are several drains affected by the proposed work, the appointment has been separated out into separate reports for the new and existing drains. This will assist the drainage superintendents with the implementation of future maintenance.

This report addresses the interconnection of the remaining portion of drain with the new County Road No. 42 Drain, which will act as an overflow drain in larger storm events.

### **Watershed Description**

The County Road No. 42 report recommended the abandonment of the upstream portion of the Klondyke Drain commencing from the intersection of St. Alphonse Avenue and County Road No. 42. The remaining portion of drain downstream of the said intersection shall continue to remain as a closed municipal drain, flowing south easterly to its outlet into the Pike Creek Drain. The new length of the Klondyke Drain is 315.5 metres.

The watershed area for the Klondyke Drain is approximately 119.8 hectares (296.2 acres) which includes the lands which use the drain as an overflow. For the Klondyke Overflow Drain, the watershed area is approximately 111.5 hectares (275.5 acres) which is slightly less since there are some lands using the Klondyke Drain that are not served by the Klondyke Overflow Drain. The lands comprising the watershed are of mixed residential, commercial and agricultural uses. There is little topographic relief. From the Ontario Soil Survey, the principle surficial soil in the study area is described as Brookston Clay with an area in the northerly section of the watershed described as Brookston Clay Sand Spot Phase. The soils are predominantly poorly drained clay.

### **Drain History**

The recent history of Engineers' reports for the Klondyke Drain and Branch follows:

- **28 February 1992 by Lou Zarlenga, P.Eng.:** The recommended work included the repair and improvement of the Klondyke Drain, complete with brushing, cleanout and replacement of access culverts. The report also recommended the drain south of County Road No. 42 to its outlet into Pike Creek Drain be enclosed.
- **19 April 1954 by C.G.R. Armstrong, P.Eng.:** The recommended work included the relocation of the Klondyke Drain and Branch from the road allowance to private lands and incorporating the relocated Branch Drain. The report also recommended four access culverts and a concrete culvert extension.

### **On-Site Meeting**

We conducted an on-site meeting on 2 October, 2018. A record of the meeting is provided in Schedule 'A', which is appended hereto.

### **Survey**

The survey was completed in 2018 as part of the detailed design assignment for the County Road No. 42 and County Road No. 43 (Banwell Road) realignment.

## **Design Considerations**

The stormwater management report for County Roads No. 42 and No. 43 authored by Dillon Consulting Limited (September 2021) recommended that the County Road No. 42 Drain provide a 5-year level of service to the road, and a 2-year level of service to the lands within its watershed. Drainage connections provided to existing lands and future developments will have limited capacity in accordance with the stormwater management report. The report further specifies that runoff generated in storm events greater than the 2-year storm is expected to either temporarily pond within private property, or flow overland within the road right-of-ways as the topography allows. The stormwater report informed this report and should be referred to for further details.

To achieve the specified capacity in the County Road No. 42 Drain, the report also recommended that the Klondyke Drain be interconnected to the new drain in order to provide an overflow. Overflow from the County Road No. 42 Drain is expected to utilize the Klondyke Drain during events greater than the regional water quality rainfall event (32 mm storm event). The Klondyke Overflow Drain acts as a secondary storm outlet for the County Road No. 42 Drain under major storm events. The existing section of the Klondyke Drain which is to remain was video inspected and found to be in good condition. As such, no repairs are recommended at this time.

We believe that these design standards should provide a reasonable level of service, but it should be clearly understood that runoff generated from large storms or fast snow melts may sometimes exceed the capacity of the proposed systems and result in surface ponding for short periods of time.

## **Allowances**

In accordance with Sections 29 and 30 of the Drainage Act, we do not anticipate any lands being damaged or taken as a result of the proposed drainage works. Any residential properties and grassed areas shall be restored to original conditions as part of the work. Therefore, 'Schedule B' for Allowances has not been included.


## **Recommendations & Cost Estimate**

We recommend an overflow pipe be constructed between the existing Klondyke Drain and the new County Road No. 42 Drain as shown on the Drawings herein.

Under the Klondyke Drain 1954 report, the Klondyke Branch Drain was an open drain on private lands and has since been improved without a drainage report. We recommend the Klondyke Branch be abandoned under this report.

We recommend the removal of the Klondyke Drain upstream of the overflow drain confluence (STMH48).

Based on our review of the history, the information obtained during the site meeting and our examination and analysis of the survey data, we recommend the improvements to the Klondyke Drain and the construction of the new Klondyke Overflow Drain as described in the following table.



Item	Description	Amount
	<b><u>STORM SEWER WORK</u></b>	
1.	Fill existing 1600 mm diameter CSP along existing fence, approximately 112 m long with concrete grout including CB/MH.	\$68,000.00
2.	Removal and disposal of existing private access bridges off-site complete with headwalls (approximately 270 m of 600-1200 mm diameter pipes).	\$60,000.00
3.	Clearing and grubbing of existing ditch (Klondyke Drain) including removal of organic material and topsoil. Filling in of existing drain with benching per OPSD 208.010). <i>Note: Soils used for the filling of the drain shall be handled in accordance with O.Reg 406/19 On-Site and Excess Soils Management</i>	\$81,000.00
4.	Supply and install concrete A257.2 65-D storm sewers, as follows:	
	a) Sta. 0+286.7 to Sta. 0+315.5 - Supply and install 28.8 m of 1500 mm diameter reinforced concrete pipe.	\$86,000.00
5.	Supply and install concrete storm manhole complete with frame and grate, as follows:	
	a) 3000 mm diameter (1 required)	\$44,000.00
6.	Temporary Silt Control Measures During Construction	<u>\$1,200.00</u>
	<b>SUB-TOTAL – EXCLUDING SECTION 26 COSTS</b>	<b>\$340,200.00</b>
7.	Survey, Report, Assessment and Final Inspection (cost portion)	\$14,900.00
8.	Expenses and incidentals (cost portion)	<u>\$1,500.00</u>
	<b>TOTAL ESTIMATE – KLONDYKE DRAIN</b>	<b>\$356,600.00</b>

The estimate provided in this report was prepared according to current materials and installation prices as of the date of this report. In the event of delays from the time of filing of the report by the Engineer to the time of tendering the work, it is understood that the estimate of cost is subject to inflation. The rate of inflation shall be calculated using the Consumer Price Index applied to the cost of construction from the date of the report to the date of tendering.

#### **Assessment of Costs**

The individual assessments are comprised of three (3) assessment components:

- i. Benefit (*advantages relating to the betterment of lands, roads, buildings, or other structures resulting from the improvement to the drain*).
- ii. Outlet Liability (*part of cost required to provide outlet for lands and roads*).

- iii. Special Benefit (*additional work or feature that may not affect function of the drain*).

We have assessed the estimated costs against the affected lands and roads as listed in Schedule 'C' under "Value of Special Benefit," "Value of Benefit" and "Value of Outlet." Since there is only one Special Benefit assessment, a separate schedule for Details of Special Benefit (Schedule 'D') is not required or included herein.

### **Assessment Rationale**

Special Benefit assessment shown in Schedule 'C' was derived as follows:

1. As the proposed recommendations are directly a result of the proposed road reconstruction improvements of County Road No. 42, all associated costs of the drainage works, including the engineering cost portion, shall be assessed 100% against the County of Essex.

### **Future Maintenance (Klondyke Drain)**

In order for the cost of future maintenance works to be fairly proportioned against the lands and roads within the Klondyke Drain watershed, we recommend that future work of repair and maintenance of the Klondyke Drain be carried out by the Municipality and the costs assessed against the affected lands and roads in accordance with Schedule 'E-1' herein. The Schedule of Assessment has been developed on the basis of an arbitrary cost of \$50,000.00.

We further recommend that future works of repair and maintenance of the remaining section of the Klondyke Drain downstream of the recommended works be carried out by the Town of Tecumseh and in accordance with the technical specifications contained in the governing by-laws for the Klondyke Drain.

### **Future Maintenance (Klondyke Overflow Drain)**

After completion, we recommend that future work of repair and maintenance of the Klondyke Overflow Drain be carried out by the Municipality and the costs assessed against the affected lands and roads in accordance with Schedule 'E-2' herein. The lands serviced by the Klondyke Overflow Drain (STMH18-STMH42) have been assessed at reduced rate. The Schedule of Assessment has been developed on the basis of an arbitrary cost of \$50,000.00.

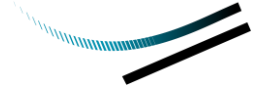
These provisions for maintenance are subject to any other variations that may be made under the authority of the Drainage Act.

### **Drawings and Specifications**

Attached to this report is "Schedule F," which contains specifications setting out the details of the recommended works, and "Schedule G," which represents the following drawings that are also attached to this report:

- Page 1 of 9: Overall Watershed Plan**  
**Page 2 of 9: Watershed Plan 1**  
**Page 3 of 9: Watershed Plan 2**  
**Page 4 of 9: Watershed Plan 3**

<b>Page 5 of 9:</b>	<b>Watershed Plan 4</b>
<b>Page 6 of 9:</b>	<b>Watershed Plan 5</b>
<b>Page 7 of 9:</b>	<b>Watershed Plan 6</b>
<b>Page 8 of 9:</b>	<b>Detail &amp; Profile</b>
<b>Page 9 of 9:</b>	<b>Miscellaneous Details</b>



### **Approvals**

The construction and/or improvement to a drainage works, including repair and maintenance activities, and all operations connected therewith are subject to the approval, inspection, by-laws and regulations of all Municipal, Provincial, Federal and other authorities having jurisdiction in respect to any matters embraced by the proposed works. The necessary approvals for the recommended works have been acquired from Essex Region Conservation Authority, Department of Fisheries and Oceans and Ministry of Environment, Conservation and Parks. Construction of the works shall be carried out in accordance with all mitigation measures, timing windows, standard practices and other applicable limitations related to in-stream works.

### **Grants**

In accordance with the provisions of Sections 85, 86 and 87 of the Drainage Act, a grant in the amount of 33-1/3 percent of the assessment eligible for a grant may be made in respect to the assessment made under this report upon privately owned lands used for agricultural purposes. The assessments levied against privately owned agricultural land must also satisfy all other eligibility criteria set out in the Agricultural Drainage Infrastructure Program policies. In this particular circumstance, the entire cost of the work will be levied against the County of Essex and therefore, none of the assessed cost is eligible for a grant from the Ministry of Agriculture, Food and Rural Affairs.

Respectfully submitted,

**DILLON CONSULTING LIMITED**

Mark D. Hernandez, P.Eng.

MDH:wlb:lld

## SCHEDULE 'A'

### County Road 42 Drains – Minutes of Onsite Meeting Tuesday October 2, 2018 – Tecumseh Council Chambers

General discussion regarding the Drainage Act

- Provincial Act but it is the responsibility of the municipalities to implement.
- Act is over 100 years old.
- Copy of the Act can be found on E-Laws Ontario Website.
- 'User Pay System' unlike sewers owned by the municipality.
- The process can generally be described as follows:
  - Request submitted
  - Engineer is appointed by the municipality
  - Conservation Authority notified.
  - Site meeting held
  - Field work completed
  - Draft report prepared
  - Public Information Centre (not required by the Act)
  - Report finalized
  - Meeting to Consider
  - Court of Revision
  - Construction (if no appeals)

What is a Municipal Drain?

- Means that the drain has status under a municipal bylaw
- The drain would have been established through the Drainage Act
- The drain will have a report which outlines pertinent information about the drain

What is the purpose of the site meeting in general?

- Gather information
  - Opportunity for landowners to provide feedback about the performance of the drain
  - Opportunity for landowners to comment on the drainage area.
    - Not everyone in attendance may be in the watershed.

What is the nature of the request(s)?

- Request from the County of Essex for 7 drains including:
  - Klondyke Drain
  - Leperance Road West Drain
  - Leperance Road East Drain
  - Dame Drain, Branch and Extension
  - 11<sup>th</sup> Concession Drain
  - Banwell Drain



- St. Louis Drain
- 5 go to Pike Creek and 2 go to through the City via other drains to Little River
- The County of Essex has retained Dillon Consulting to undertake the design for the reconstruction of County Road 42 from the City/Tecumseh boundary to the Pike Creek and the diversion of County Road 43.
  - The project generally entails widening of the road and the addition of bike lanes and sidewalks.
  - The additional width will affect the municipal drains and is the reason for Dillon's appointment under the Drainage Act.
  - The drains will likely be enclosed but may also be realigned and consolidated, however, the design has not yet been completed.
- Currently our appointment only pertains to how the drains will be impacted by the proposed roadwork
  - We do not intend to look upstream unless the Town receives a request in writing from a landowner.

Who is going to pay and how?

- The assessment will ultimately depend on the scope of work
  - It is anticipated that the County will pay most if not all of the costs
  - Typically, upstream landowners receive a small assessment for the equivalent value of maintaining the drain as it exists today.
    - If the drain is in good condition, then this does not apply.
- The engineer determines the assessment
  - Assessment is detailed in report for each property in the watershed
  - Block assessments are used for built up areas
- Grants are available for properties with Farm Class Tax Rate (1/3)
- The Municipality will bill the landowners after the work is complete for their net assessment

What should I expect in the report?

- All landowners receive copies of the draft report with their notice for the PIC, Meeting to Consider and Court of Revision
- Reports generally contain:
  - Background information about the request
  - Watershed drawing
  - History of the drain
  - Design considerations
  - Recommended work
  - Cost estimate
  - Meeting minutes
  - Assessments including FM provisions
  - Drawings
  - Specifications

### How landowners will be affected during Construction

- Typically, only landowners along the drain affected by construction
  - Working corridors are defined in the report
- Work must result in the same or better level of service
- The quality of work is typically monitored during construction by the Drainage Superintendent
  - The Engineer is required to complete a final inspection

### Environmental requirements

- DFO, MNRF and ERCA

### Next Steps

- Topographical survey will be completed and then the preparation of the report will commence
- PIC
- Board meetings

### Discussion:

- 1) Concern with respect to flooding – New drain will have to meet established level of service.
- 2) The scope of work cannot go upstream on an existing drain unless specifically requested by a landowner.
- 3) Town owned storm sewers are managed through Public Works.
- 4) Existing ditches will be cleaned out and enclosed.
- 5) Any new subdivision will have to manage their stormwater with a pond and/or other measures. They will not be allowed to release their flows with no controls.
- 6) The value of the work is not yet known. The request comes from the County to undertake the road improvements.
- 7) New pipes cannot be sized for major storm events as it would be cost prohibitive. Pre and post ponding will be reviewed during design.
- 8) The improvements to Pike Creek are being undertaken via a separate appointment and is unrelated to the County's request.
- 9) The new storm sewer will be under the improved / widened roadway.
- 10) The timing for the improvements will depend on the County's phasing and timing for the road improvements.
- 11) It is not clear whether drainage improvements could result in MPAC assessment changes.
- 12) Landowners can send additional questions at a later date via email or phone call.

**"SCHEDULE C"**  
**SCHEDULE OF ASSESSMENT**  
**KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN**  
**TOWN OF TECUMSEH**

**MUNICIPAL LANDS:**

Description	Area Affected (Acres)      (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
County Road No. 42	0.00	0.00	County of Essex	\$356,600.00	\$0.00	\$0.00	\$356,600.00
Total on Municipal Lands.....				\$356,600.00	\$0.00	\$0.00	\$356,600.00
<b>TOTAL ASSESSMENT .....</b>				<b>\$356,600.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$356,600.00</b>
	(Acres)	(Ha.)					
<b>Total Area:</b>	<b>0.00</b>	<b>0.00</b>					

**"SCHEDULE E-1"**  
**SCHEDULE OF ASSESSMENT FOR FUTURE MAINTENANCE**  
**KLONDYKE DRAIN**  
**TOWN OF TECUMSEH**  
**TOWN OF TECUMSEH**

**MUNICIPAL LANDS:**

Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
County Road No. 43 (Banwell Road)	7.63	3.09	County of Essex	\$0.00	\$0.00	\$2,186.00	\$2,186.00
County Road No. 43 (11th Concession Road)	4.67	1.89	County of Essex	\$0.00	\$0.00	\$1,337.00	\$1,337.00
County Road No. 42	13.25	5.36	County of Essex	\$0.00	\$0.00	\$3,804.00	\$3,804.00
Odessa Drive	1.00	0.40	Town of Tecumseh	\$0.00	\$0.00	\$283.00	\$283.00
560-05500	7.00	2.83	County of Essex	\$0.00	\$0.00	\$1,602.00	\$1,602.00
Cranbrook Crescent	2.89	1.17	Town of Tecumseh	\$0.00	\$0.00	\$828.00	\$828.00
Emma Maria Crescent	0.17	0.07	Town of Tecumseh	\$0.00	\$0.00	\$50.00	\$50.00
Shiff Drive	0.86	0.35	Town of Tecumseh	\$0.00	\$0.00	\$248.00	\$248.00
Shields Street	1.63	0.66	Town of Tecumseh	\$0.00	\$0.00	\$467.00	\$467.00
560-05667	0.41	0.17	Town of Tecumseh	\$0.00	\$0.00	\$36.00	\$36.00
580-00300	6.37	2.58	County of Essex	\$0.00	\$0.00	\$1,825.00	\$1,825.00
570-32801	0.05	0.02	Town of Tecumseh	\$0.00	\$0.00	\$8.00	\$8.00
Leboeuf Avenue	1.62	0.66	Town of Tecumseh	\$0.00	\$0.00	\$467.00	\$467.00
Jillian Court	0.37	0.15	Town of Tecumseh	\$0.00	\$0.00	\$106.00	\$106.00
St. Alphonse Street	2.11	0.85	Town of Tecumseh	\$0.00	\$0.00	\$601.00	\$601.00
12th Concession Road	0.89	0.36	Town of Tecumseh	\$0.00	\$0.00	\$255.00	\$255.00
560-03516	0.13	0.05	County of Essex	\$0.00	\$0.00	\$7.00	\$7.00
Total on Municipal Lands.....				\$0.00	\$0.00	\$14,110.00	\$14,110.00

**PRIVATELY-OWNED - NON-AGRICULTURAL LANDS:**

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
560-02900	10	S. Pt. Lot 19	9.00	3.64	Dupuis Trucking & Landscaping	\$0.00	\$0.00	\$1,545.00	\$1,545.00
560-03000	10	S. Pt. Lot 19	0.59	0.24	Richard & Jacquelyn Hillock	\$0.00	\$0.00	\$95.00	\$95.00
560-03200	10	S. Pt. Lot 19	8.02	3.25	Raymond Pittao	\$0.00	\$0.00	\$460.00	\$460.00
560-03300	10	S. Pt. Lot 19	8.02	3.25	Taijinder S. & Hardish K. Dhanju	\$0.00	\$0.00	\$460.00	\$460.00
560-03400	10	S. Pt. Lot 19	8.02	3.25	Marie C. Mogyorodi	\$0.00	\$0.00	\$460.00	\$460.00
560-03501	10	Pt. Lot 19 RP12R18067 Pt. 1	0.95	0.38	Marc A. Lafreniere & Mila Nerizon-Andot	\$0.00	\$0.00	\$113.00	\$113.00
560-03500	10	Pt. Lot 19 RP12R25489 Pt. 7	27.73	11.22	1000059455 Ontario inc.	\$0.00	\$0.00	\$1,588.00	\$1,588.00
560-03526	10	Pt. Lot 19 RP12R25489 Pt. 4	0.38	0.15	Dana & Danny Azar	\$0.00	\$0.00	\$64.00	\$64.00
560-03525	10	Pt. Lot 19 RP12R25489 Pt. 3	0.25	0.10	Dana & Danny Azar	\$0.00	\$0.00	\$42.00	\$42.00
560-03511	10	Pt. Lot 19 RP12R25489 Pt. 2	0.26	0.11	David Orchard & Hannah Bradley	\$0.00	\$0.00	\$47.00	\$47.00
560-03524	10	Pt. Lot 19 RP12R25489 Pt. 1	0.28	0.11	Dana & Danny Azar	\$0.00	\$0.00	\$47.00	\$47.00
560-03510	10	Pt. Gore Lot 19 RP12R10865 Pts. 5&10	0.23	0.09	Luminita & Laurentiu R. Vasu	\$0.00	\$0.00	\$38.00	\$38.00

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
560-03509	10	Pt. Gore Lot 19 RP12R10865 Pts. 4&9	0.23	0.09	Danny & Alana McIntyre	\$0.00	\$0.00	\$38.00	\$38.00
560-03508	10	Pt. Gore Lot 19 RP12R10865 Pts. 3&8	0.23	0.09	Catherine J. Urban	\$0.00	\$0.00	\$38.00	\$38.00
560-03507	10	Pt. Gore Lot 19 RP12R10865 Pts. 2&7	0.23	0.09	Shelly Hodare	\$0.00	\$0.00	\$38.00	\$38.00
560-03506	10	Pt. Gore Lot 19 RP12R10865 Pts. 1&6	0.40	0.16	Christopher B. & Sherri-Lynn A. Roberts	\$0.00	\$0.00	\$68.00	\$68.00
560-04600	11	N. Pt. Lot 19	0.69	0.28	Robert J. McArthur & Madeleine M. Blais	\$0.00	\$0.00	\$103.00	\$103.00
560-04700	11	N. Pt. Lot 19 RP12R3925 Pt. 2 RP12R6164 Pts. 1&4	0.56	0.23	Arvind Jain	\$0.00	\$0.00	\$93.00	\$93.00
560-04501	11	Pt. Lot 19 RP12R4040 Pt. 1	0.66	0.27	Brian & Elisa Houston	\$0.00	\$0.00	\$101.00	\$101.00
560-04701	11	Pt. Lot 19 RP12R6164 Pt. 2	0.32	0.13	Dmitar & Susan Veresuk	\$0.00	\$0.00	\$55.00	\$55.00
560-04702	11	Pt. Lot 19 RP12R6164 Pt. 3	0.50	0.20	Michelle A. Desjardins	\$0.00	\$0.00	\$85.00	\$85.00
560-04800	11	N. Pt. Lot 19 RP12R5602 Pt. Pt. 2	0.89	0.36	Lionel J. & Gail M. Baillargeon	\$0.00	\$0.00	\$112.00	\$112.00
560-04810	11	Pt. Lot 19 RP12R8619 Pt. 1	0.89	0.36	Gail M. Baillargeon	\$0.00	\$0.00	\$112.00	\$112.00
560-04900	11	N. Pt. Lot 19	0.82	0.33	Rupinderpal S. Sidhu & Sarabjit S. Sandhu	\$0.00	\$0.00	\$110.00	\$110.00
560-05000	11	N. Pt. Lot 19	2.49	1.01	2177219 Ontario Inc.	\$0.00	\$0.00	\$429.00	\$429.00
560-05100	11	Pt. Lot 19 RP12R9328 Pts. 1&2	2.39	0.97	2177219 Ontario Inc.	\$0.00	\$0.00	\$412.00	\$412.00
560-05207	11	Pt. Lot 19 RP12R9470 Pts. 1&3	3.06	1.24	1830022 Ontario Inc.	\$0.00	\$0.00	\$526.00	\$526.00
560-05109	11	Pt. Lot 19 RP12R9470 Pt. 2	0.99	0.40	1627093 Ontario Ltd.	\$0.00	\$0.00	\$226.00	\$226.00
560-05210	11	Pt. Lots 19&20 RP12R4646 Pt. 1 RP12R14113 Pt. 1	2.54	1.03	Delta Holdings Inc.	\$0.00	\$0.00	\$437.00	\$437.00
560-05320	11	Pt. Lots 19&20 RP12R14425 Pt. 1	0.74	0.30	Giuseppa Piptone	\$0.00	\$0.00	\$85.00	\$85.00
560-05310	11	Pt. Lots 19&20 RP12R14425 Pt. 2	0.74	0.30	1501759 Ontario Inc.	\$0.00	\$0.00	\$127.00	\$127.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
560-05311	11	Pt.Lots 19&20 RP12R6451 Pt. 10	0.61	0.25	Michael Silverson	\$0.00	\$0.00	\$142.00	\$142.00
560-05302	11	Pt. Lot 19&20 RP12R5167 Pt. 1	0.86	0.35	Quad T. Developments Inc.	\$0.00	\$0.00	\$198.00	\$198.00
560-05400	11	N. Pt. Lot 19-20 EPT	5.28	2.14	Chase Transportation & Logistics Ltd.	\$0.00	\$0.00	\$908.00	\$908.00
560-05600	-	Plan 12M333 Blk 96	1.39	0.56	1000038843 Ontario Inc.	\$0.00	\$0.00	\$79.00	\$79.00
560-05601	-	Plan 12M333 Lot 71	0.16	0.06	Mayloon H. Esho & Adhraa Ibrahim	\$0.00	\$0.00	\$25.00	\$25.00
560-05602	-	Plan 12M333 Lot 70	0.16	0.06	Jerzy & Violetta Mroczek	\$0.00	\$0.00	\$25.00	\$25.00
560-05603	-	Plan 12M333 Lot 69	0.16	0.06	Steve J. & Pauline T. Lavoie	\$0.00	\$0.00	\$25.00	\$25.00
560-05604	-	Plan 12M333 Lot 68	0.17	0.07	Slavica V. Rice	\$0.00	\$0.00	\$30.00	\$30.00
560-05676	-	Plan 12M333 Lot 1 Blk 104	0.20	0.08	Jane Atwell	\$0.00	\$0.00	\$34.00	\$34.00
560-05675	-	Plan 12M333 Lot 2	0.18	0.07	Cori L. Marcoux	\$0.00	\$0.00	\$30.00	\$30.00
560-05674	-	Plan 12M333 Lot 3	0.18	0.07	Steve Baumritter & Maria F. Dennison	\$0.00	\$0.00	\$30.00	\$30.00
560-05673	-	Plan 12M333 Lot 4	0.18	0.07	David & Lisa M. McCubbin	\$0.00	\$0.00	\$30.00	\$30.00
560-05672	-	Plan 12M333 Lot 5	0.19	0.08	Subhi & Ilham R. Dabdoub	\$0.00	\$0.00	\$34.00	\$34.00
560-05671	-	Plan 12M333 Lot 6	0.21	0.08	Marciano & Clarita Estabalaya	\$0.00	\$0.00	\$34.00	\$34.00
560-05670	-	Plan 12M333 Lot 7	0.21	0.08	Gurjant Singh & Amandeep Kaur	\$0.00	\$0.00	\$34.00	\$34.00
560-05668	-	Plan 12M333 Lot 8	0.20	0.08	Ognjen Todorovic & Michelina Barbieri	\$0.00	\$0.00	\$34.00	\$34.00
560-05666	-	Plan 12M333 Lot 9	0.21	0.08	Thomas R. & Michelle R. Wilson	\$0.00	\$0.00	\$34.00	\$34.00
560-05665	-	Plan 12M333 Lot 10	0.22	0.09	Florin & Cristina Lazariciu	\$0.00	\$0.00	\$38.00	\$38.00
560-05664	-	Plan 12M333 Lot 11	0.27	0.11	Fuk K. & Lai F. Tang	\$0.00	\$0.00	\$47.00	\$47.00
560-05663	-	Plan 12M333 Lot 12	0.37	0.15	Mary J. Stefanczyk & Arnold Angeli	\$0.00	\$0.00	\$64.00	\$64.00
560-05662	-	Plan 12M333 Lot 13	0.29	0.12	Beltran E. Diaz & Roxana I. Moreira-Diaz	\$0.00	\$0.00	\$51.00	\$51.00
560-05661	-	Plan 12M333 Lot 14	0.19	0.08	Robert J. & Marijana Matakovic	\$0.00	\$0.00	\$34.00	\$34.00
560-05660	-	Plan 12M333 Lot 15	0.16	0.06	Ricardo Mabesa Estate	\$0.00	\$0.00	\$25.00	\$25.00
560-05659	-	Plan 12M333 Lot 16	0.16	0.06	Victoria Marlow & Sandra Beaton	\$0.00	\$0.00	\$25.00	\$25.00
560-05658	-	Plan 12M333 Lot 17	0.18	0.07	Steven & Mary Chick	\$0.00	\$0.00	\$30.00	\$30.00
560-05657	-	Plan 12M333 Lot 18	0.28	0.11	William A. & Dian R. Campbell	\$0.00	\$0.00	\$47.00	\$47.00
560-05656	11	Pt. Lot 19 Plan 12M333 Lot 19 RP12R18642 Pt. 11	0.33	0.13	Dorota Maka & Daniel S. Wolicki	\$0.00	\$0.00	\$55.00	\$55.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
560-05655	11	Pt. Lot 19 Plan 12M333 Lot 20 RP12R18642 Pt. 10	0.25	0.10	Stephen M. & Sherri L. Ray	\$0.00	\$0.00	\$42.00	\$42.00
560-05654	-	Plan 12M333 Lot 21 RP12R18642 Pt. 9	0.21	0.08	Layane Kouatli & Houssein El- Siblani	\$0.00	\$0.00	\$34.00	\$34.00
560-05653	11	Pt. Lot 19 Plan 12M333 Lot 22 RP12R18642 Pt. 8	0.19	0.08	Kurt Oshowy	\$0.00	\$0.00	\$34.00	\$34.00
560-05652	-	Plan 12M333 Lot 23	0.18	0.07	Shamoeay Akram Butrus Polus	\$0.00	\$0.00	\$30.00	\$30.00
560-05651	11	Pt. Lot 19 Plan 12M333 Lot 24 RP12R18642 Pt. 6	0.19	0.08	Laureato V. & Lisa M. Giacalone	\$0.00	\$0.00	\$34.00	\$34.00
560-05650	-	Plan 12M333 Lot 25	0.19	0.08	Charles G. & Sarah C. Stallard	\$0.00	\$0.00	\$34.00	\$34.00
560-05649	-	Plan 12M333 Lot 26	0.16	0.06	Aaron D. Kogon	\$0.00	\$0.00	\$25.00	\$25.00
560-05647	11	Pt. Lot 19 Plan 12M333 Lot 27 RP12R18642 Pt. 2	0.19	0.08	David D. Turpin & Julianne D. Smyth	\$0.00	\$0.00	\$34.00	\$34.00
560-05646	11	Pt. Lot 19 Plan 12M333 Lot 28 RP12R18642 Pt. 1	0.17	0.07	Margaret E. Lanthier	\$0.00	\$0.00	\$30.00	\$30.00
560-05645	-	Plan 12M333 Lot 29 Blk 109	0.26	0.11	Georgina & Tige Melton	\$0.00	\$0.00	\$47.00	\$47.00
560-05698	-	Plan 12M333 Lot 93	0.19	0.08	Jamie J. Shepherd & Nicole K. Wiens	\$0.00	\$0.00	\$34.00	\$34.00
560-05697	-	Plan 12M333 Lot 92	0.16	0.06	John C. Collymore	\$0.00	\$0.00	\$25.00	\$25.00
560-05696	-	Plan 12M333 Lot 91	0.17	0.07	Paul Loncke	\$0.00	\$0.00	\$30.00	\$30.00
560-05695	-	Plan 12M333 Lot 90	0.18	0.07	Slavko Milosevski	\$0.00	\$0.00	\$30.00	\$30.00
560-05694	-	Plan 12M333 Lot 89	0.18	0.07	Michael L. & Veronica A. Pecaski	\$0.00	\$0.00	\$30.00	\$30.00
560-05693	-	Plan 12M333 Lot 88	0.17	0.07	Jeffery Lawson	\$0.00	\$0.00	\$30.00	\$30.00
560-05692	-	Plan 12M333 Lot 87	0.16	0.06	Waleed & Warina Shamoon	\$0.00	\$0.00	\$25.00	\$25.00
560-05691	-	Plan 12M333 Lot 86	0.16	0.06	Pavle & Duka Radevski	\$0.00	\$0.00	\$25.00	\$25.00
560-05690	-	Plan 12M333 Lot 85	0.16	0.06	Kimberly N. Taylor	\$0.00	\$0.00	\$25.00	\$25.00
560-05689	-	Plan 12M333 Lot 84	0.16	0.06	France Monette	\$0.00	\$0.00	\$25.00	\$25.00
560-05688	-	Plan 12M333 Lot 83	0.20	0.08	David T. & Sharleen T. Cassady	\$0.00	\$0.00	\$34.00	\$34.00
560-05687	-	Plan 12M333 Lot 82	0.19	0.08	Christopher C. & Margaret A. Montgomery	\$0.00	\$0.00	\$34.00	\$34.00
560-05686	-	Plan 12M333 Lot 81	0.16	0.06	Vishal K. Kohli	\$0.00	\$0.00	\$25.00	\$25.00
560-05685	-	Plan 12M333 Lot 80	0.16	0.06	Ivana Crvenkovski	\$0.00	\$0.00	\$25.00	\$25.00
560-05684	-	Plan 12M333 Lot 79	0.16	0.06	Gena M. & Dean S. Farandatos	\$0.00	\$0.00	\$25.00	\$25.00

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
560-05683	-	Plan 12M333 Lot 78	0.16	0.06	Lisa O'Neil & Debra Fortowsky	\$0.00	\$0.00	\$25.00	\$25.00
560-05682	-	Plan 12M333 Lot 77	0.17	0.07	Dwight & Deborah Hesman	\$0.00	\$0.00	\$30.00	\$30.00
560-05681	-	Plan 12M333 Lot 76	0.21	0.08	Wilfred L. Fairbrother & Wendy C. Jennison	\$0.00	\$0.00	\$34.00	\$34.00
560-05680	-	Plan 12M333 Lot 75	0.21	0.08	Michale R. Catton & Amanda M. Letteri	\$0.00	\$0.00	\$34.00	\$34.00
560-05679	-	Plan 12M333 Lot 74	0.17	0.07	Bruce A. Carter	\$0.00	\$0.00	\$30.00	\$30.00
560-05678	-	Plan 12M333 Lot 73	0.16	0.06	Marijana Carmickle	\$0.00	\$0.00	\$25.00	\$25.00
560-05677	-	Plan 12M333 Lot 72	0.19	0.08	Krzysztof & Danuta Kaminski	\$0.00	\$0.00	\$34.00	\$34.00
560-05700	11	Gore 20 EPT	0.82	0.33	Sami & Karimeh Haddad	\$0.00	\$0.00	\$110.00	\$110.00
560-05800	11	Gore 20 EPT	0.10	0.04	Cesidoio Plagia	\$0.00	\$0.00	\$17.00	\$17.00
560-05900	11	Gore 20 EPT	0.28	0.11	John & Hannelmore Kompas	\$0.00	\$0.00	\$47.00	\$47.00
560-06000	11	Gore 20 EPT	0.12	0.05	Kent Corp. Inc.	\$0.00	\$0.00	\$21.00	\$21.00
560-06005	11	Gore Lot 20 RP12R11485 Pt. 1	0.53	0.21	David V. Verspeelt	\$0.00	\$0.00	\$88.00	\$88.00
560-06100	11	Gore 20 EPT RP12R11485 Pt. 2	0.52	0.21	David V. Verspeelt	\$0.00	\$0.00	\$88.00	\$88.00
560-06101	11	Pt. Lot 20 RP12R4850 Pt. 1	0.27	0.11	Jennifer J. Kociuk	\$0.00	\$0.00	\$47.00	\$47.00
560-09400	12	Gore Pt. Lot 20 RP12R1659 Pts. 1&2	0.37	0.15	Christopher M. Solcz	\$0.00	\$0.00	\$64.00	\$64.00
560-09305	12	Pt. Gore Pt. Lot 20 RP12R12911 Pt. 1	0.30	0.12	Peter J. & Aimee M. Stuebing	\$0.00	\$0.00	\$51.00	\$51.00
560-09304	12	W. Pt. Lot 20 RP12R3185 Pt. 1	0.21	0.08	Theresa M. Artale	\$0.00	\$0.00	\$34.00	\$34.00
560-09303	12	L. Pt. Gore 20 RP12R3673 Pt. 1	0.08	0.03	Anne Vanderstelt	\$0.00	\$0.00	\$13.00	\$13.00
560-09302	12	Pt. Lot 20 RP12R4688 Pt. 1	0.09	0.04	Kamaljeet Singh & Jasleen Walia	\$0.00	\$0.00	\$17.00	\$17.00
570-32000	-	Plan 1380 Lots 64-75, 105-116, 210-221 Pt. Lots 63,117,209&Blk E	5.25	2.12	Windsor-Essex Catholic District School Board	\$0.00	\$0.00	\$1,200.00	\$1,200.00
570-32002	-	Plan 1380 Lots 57-62, 118-123, 203-208 Pt. Lots 63,117,209&Blk E	2.73	1.10	Extendicare (Canada) Inc.	\$0.00	\$0.00	\$623.00	\$623.00
560-04001	11	Pt. Lot 17	1.00	0.40	Jamie Balkwill	\$0.00	\$0.00	\$113.00	\$113.00
560-04005	11	Pt. Lot 17	2.93	1.19	Jamie A. & Corey Balkwill	\$0.00	\$0.00	\$170.00	\$170.00
560-04120	11	Pt. Lot 17 RP12R17414 Pt. 1	0.72	0.29	Scott Mackenzie	\$0.00	\$0.00	\$105.00	\$105.00



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			(Acres)	(Ha.)					
560-04201	11	Pt. Lot 18 RP12R4040 Pt. 6	1.00	0.40	Ridvan Cielza	\$0.00	\$0.00	\$113.00	\$113.00
560-04200	11	S. Pt. Lot 18 RP12R4040 Pt. 5	1.00	0.40	Thuan Huynh & Khanh Pham	\$0.00	\$0.00	\$113.00	\$113.00
560-04300	11	S. Pt. Lot 18 RP12R5571 Pt. 2	0.18	0.07	Kirandeep & Harjinder Ceema	\$0.00	\$0.00	\$30.00	\$30.00
560-04303	11	W. Pt. Lot 18 RP12R4040 Pt. 4	1.00	0.40	Pierino & Pierina Civitillo	\$0.00	\$0.00	\$113.00	\$113.00
560-04420	11	Pt. Lot 18 RP12R24711 Pt. 1	1.04	0.42	Christine M. Nostadt	\$0.00	\$0.00	\$117.00	\$117.00
560-04450	11	Pt. Lot 18 RP12R10224 Pt. 1	0.50	0.20	Deborah Tracey	\$0.00	\$0.00	\$85.00	\$85.00
570-34300	3	Pt. Lots 144-146 RP12R23680 Pts. 1,3&11-15	2.10	0.85	1000059455 Ontario inc.	\$0.00	\$0.00	\$120.00	\$120.00
570-34350	3	Pt. Lot 144-146 RP12R23680 Pts. 6,9&10	0.33	0.13	Greater Essex County District School Board	\$0.00	\$0.00	\$55.00	\$55.00
580-05400	3	Plan 65 Lot 3 & Pt Lots 1,2&4	17.30	7.00	10000227395 Ontario LTD.	\$0.00	\$0.00	\$991.00	\$991.00
580-05500	3	Plan 65 Pt. Lot 2	0.34	0.14	Mirna Komzy	\$0.00	\$0.00	\$59.00	\$59.00
580-05600	3	S. Pt. Lot 143	1.00	0.40	Carl G. & Karen Baillargeon	\$0.00	\$0.00	\$113.00	\$113.00
580-05602	3	Plan 65 Pt. Lot 1 RP12R8397 Pt. 1	0.47	0.19	Marc T. & Carole M. Whaling	\$0.00	\$0.00	\$81.00	\$81.00
580-05700	3	Plan 65 Pt. Lot 1 RP12R8397 Pt. 2	0.53	0.21	Peter & Nicole Catterson	\$0.00	\$0.00	\$88.00	\$88.00
580-00110	3	Plan 65 Pt. Lot 1 & Pt. Lot A RP12R6076 Pt. 3	0.20	0.08	Binh H. Luong & Ling S. Lin	\$0.00	\$0.00	\$34.00	\$34.00
580-00200	3	PL 65 Pt. Lot 1 RP12R6076 Pt. 2	0.62	0.25	Jon M. & Patricia A. Grubisich	\$0.00	\$0.00	\$97.00	\$97.00
580-00201	3	PL 65 Pt. Lot 1 RP12R6076 Pt. 1	0.60	0.24	Wanda Johnston	\$0.00	\$0.00	\$95.00	\$95.00
580-00202	3	Plan 65 Pt. Lot 1 Pt Lot A RP12R4377 Pt. 2	0.60	0.24	Faize O. Antwan	\$0.00	\$0.00	\$95.00	\$95.00
580-00203	3	Pt. Lot 1 Plan 65 Pt. Lot A RP12R4377 Pt. 1	0.60	0.24	Vittorio Rotondi	\$0.00	\$0.00	\$95.00	\$95.00
580-00204	3	Plan 65 Pt. Lot 1 Pt. BLK A RP12R11482 Pt. 1	1.42	0.57	Tilda Zanet	\$0.00	\$0.00	\$129.00	\$129.00
580-00500	3	S. Pt. Lot 142 Plan 65 Pt. Lot 1&A	0.19	0.08	Rami Dawoud	\$0.00	\$0.00	\$34.00	\$34.00

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			(Acres)	(Ha.)					
580-00550	3	Pt. Lot 141 RP12R10914 Pt. 1	0.47	0.19	Mark Charette & Tricia Hunter	\$0.00	\$0.00	\$81.00	\$81.00
580-05800	-	Plan 65 Pt. Lot 1 RP12R8316 Pt. 1	0.23	0.09	Isfendiyar & Canan Ozcan	\$0.00	\$0.00	\$38.00	\$38.00
580-05802	-	Plan 65 Pt. Lot 1&A RP12R8316 Pt. 2	0.23	0.09	John S. & Linda K. Trella	\$0.00	\$0.00	\$38.00	\$38.00
580-00101	-	Plan 65 Pt. Lot A RP12R8316 Pt. 3	0.24	0.10	John E. Lachowicz	\$0.00	\$0.00	\$42.00	\$42.00
580-00100	-	Plan 65 Pt. Lot A RP12R8316 Pt. 4	0.29	0.12	William J. Toth & Doreen E. Hynes	\$0.00	\$0.00	\$51.00	\$51.00
570-33700	-	Plan 1380 Lot 76 Pt. Lot 77 RP12R18192 Pt. 9	0.19	0.08	Rudy A. & Elizabeth J. Viale	\$0.00	\$0.00	\$34.00	\$34.00
570-33710	-	Plan 1380 Lot 78 Lots 77&79 RP12R18192 Pt. 8	0.19	0.08	Luc M. Gagnon	\$0.00	\$0.00	\$34.00	\$34.00
570-33720	-	Plan 1380 Pt. Lots 79&80 RP12R18192 Pt. 7	0.19	0.08	Stacey A. Bennett	\$0.00	\$0.00	\$34.00	\$34.00
570-33730	-	Plan 1380 Pt. Lots 80&82 RP12R18192 Pt. 6	0.19	0.08	Milan & Svetlana Spanovic	\$0.00	\$0.00	\$34.00	\$34.00
570-33740	-	Plan 1380 Pt. Lots 82&83 RP12R18192 Pt. 5	0.19	0.08	Justin Firor & Kaylee Brown	\$0.00	\$0.00	\$34.00	\$34.00
570-33750	-	Plan 1380 Lot 84 Pt. Lots 83&85 RP12R18192 Pt. 4	0.19	0.08	Ivan & Barka Kristo	\$0.00	\$0.00	\$34.00	\$34.00
570-33760	-	Plan 1380 Pt. Lots 85&86 RP12R18192 Pt. 3	0.19	0.08	Joseph L. & Joy E. Goyeau	\$0.00	\$0.00	\$34.00	\$34.00
570-33770	-	Plan 1380 Pt. Lots 86- 89 RP12R18192 Pt. 2	0.19	0.08	Suzanne V. & Michael V. Matteis	\$0.00	\$0.00	\$34.00	\$34.00
570-33800	-	Plan 1380 Pt. Lots 87- 89 RP12R18192 Pt. 1	0.25	0.10	Elon & Norma Clemmings	\$0.00	\$0.00	\$42.00	\$42.00
570-33500	-	Plan 1380 Pt. Lots 103&104 RP12R18192 Pt. 10	0.22	0.09	Karen Loebach-Smith & John J. Smith	\$0.00	\$0.00	\$38.00	\$38.00
570-33450	-	Plan 1380 Lot 102 Pt. Lots 101&103 RP12R18192 Pt. 11	0.22	0.09	Roxanna E. Sarkis	\$0.00	\$0.00	\$38.00	\$38.00
570-33400	-	Plan 1380 Lot 100 Pt. Lots 99&101 RP12R18192 Pt. 12	0.22	0.09	Naci Kurt	\$0.00	\$0.00	\$38.00	\$38.00
570-33350	-	Plan 1380 Lot 98 Pt. Lots 97&99 RP12R18192 Pt. 13	0.22	0.09	Mirojub & Branislava Zagorac	\$0.00	\$0.00	\$38.00	\$38.00

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
570-33300	-	Plan 1380 Lot 96 Pt. Lot 97 RP12R18192 Pt. 14	0.22	0.09	Joseph & Maria Conflitti	\$0.00	\$0.00	\$38.00	\$38.00
570-33200	-	Plan 1380 Lot 95 Pt. Lot 94 RP12R22747 Pt. 1	0.26	0.11	George C. Copeland	\$0.00	\$0.00	\$47.00	\$47.00
570-33100	-	Plan 1380 Pt. Lots 90,91&94 RP12R22747 Pt. 3	0.23	0.09	Essex County Community Living	\$0.00	\$0.00	\$38.00	\$38.00
570-33000	-	Plan 1380 Pt. Lots 91- 94 RP12R22747 Pt. 2	0.23	0.09	Susan A. Knight	\$0.00	\$0.00	\$38.00	\$38.00
570-32100	-	Plan 1380 Lots 222&223 RP12R12345 Pt. 1	0.24	0.10	Sharren Paquin	\$0.00	\$0.00	\$42.00	\$42.00
570-32300	-	Plan 1380 Lots 224&225 RP12R12345 Pt. 3	0.24	0.10	Shelley L. Beno	\$0.00	\$0.00	\$42.00	\$42.00
570-32500	-	Plan 1380 Lots 226&227 RP12R12345 Pt. 5	0.24	0.10	Connor Rumpfelt & Caterina Augimeri	\$0.00	\$0.00	\$42.00	\$42.00
570-32600	-	Plan 1380 Lots 228&229 RP12R12345 Pt. 6	0.24	0.10	Joseph P. & Janice M. Labreche	\$0.00	\$0.00	\$42.00	\$42.00
570-32700	-	Plan 1380 Lots 230&231	0.24	0.10	John B. Mailloux	\$0.00	\$0.00	\$42.00	\$42.00
570-32800	-	Plan 1380 Lot 232 RP12R12345 Pts. 10&11	0.17	0.07	Cheryl M. & Michael Todd	\$0.00	\$0.00	\$30.00	\$30.00
570-32900	-	Plan 1380 Lot 233 Pt. Lots 234&235 RP12R2299 Pts. 2&3	0.26	0.11	Houman & Fatemeh Jafarnia	\$0.00	\$0.00	\$47.00	\$47.00
570-14500	-	Plan 1380 Pt. Lots 236&237 Pt. Blk A	0.24	0.10	David A. Newcombe	\$0.00	\$0.00	\$42.00	\$42.00
570-14600	-	Plan 1380 Pt. Blk A	0.24	0.10	David N. & Mabel J. Desrosiers	\$0.00	\$0.00	\$42.00	\$42.00
570-14700	-	Plan 1380 Pt. Blk A	0.24	0.10	Baldip & Daljit Sandhar	\$0.00	\$0.00	\$42.00	\$42.00
570-14800	-	Plan 1380 Pt. Blk A	0.24	0.10	Jerry Sagat & Yan Hao	\$0.00	\$0.00	\$42.00	\$42.00
570-14900	3	Pt. Lot 151 RP12R19655 Pts. 14&15	0.27	0.11	Jerry Sagat & Yan Hao	\$0.00	\$0.00	\$47.00	\$47.00
570-14901	3	Pt. Lot 151 RP12R19655 Pts. 12&13	0.27	0.11	John & Laura Levinsky	\$0.00	\$0.00	\$47.00	\$47.00
570-14902	3	Pt. Lot 151 RP12R19655 Pts. 10&11	0.41	0.17	Eric C. & Michelle L. Girard	\$0.00	\$0.00	\$72.00	\$72.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
570-14903	3	Pt. Lot 151 RP12R19655 Pts. 8&9	0.26	0.11	Vincent & Janeth Boyd	\$0.00	\$0.00	\$47.00	\$47.00
570-14904	3	Pt. Lot 151 RP12R19655 Pts. 6&7	0.42	0.17	Zelko Rezler & Mary Kristo-Rezler	\$0.00	\$0.00	\$72.00	\$72.00
570-14905	3	Pt. Lot 151 RP12R19655 Pts. 4&5	0.25	0.10	Tomy J. & Paulette Jagatic	\$0.00	\$0.00	\$42.00	\$42.00
570-14906	3	Pt. Lot 151 RP12R19655 Pts. 2&3	0.23	0.09	Eric & Sandra J. Godin	\$0.00	\$0.00	\$38.00	\$38.00
570-15000	-	Plan 1380 Pt. Blk B	0.22	0.09	John D. & Patricia M. Levesque	\$0.00	\$0.00	\$38.00	\$38.00
570-15600	-	Plan 1380 Pt. Blk B	0.23	0.09	Gregory D. Renaud	\$0.00	\$0.00	\$38.00	\$38.00
570-15500	-	Plan 1380 Pt. Blk B	0.23	0.09	Victoria A. Muldoon	\$0.00	\$0.00	\$38.00	\$38.00
570-15400	-	Plan 1380 Pt. Blk B	0.25	0.10	Sharon L. McDearnid	\$0.00	\$0.00	\$42.00	\$42.00
570-15300	-	Plan 1380 Pt. Blk B RP12R7285 Pt. 1	0.41	0.17	Palko & Mirjana Kohut	\$0.00	\$0.00	\$72.00	\$72.00
570-15200	-	Plan 1380 Pt. Blk B RP12R9006 Pts. 1&2	0.39	0.16	Ronald E. Delisle	\$0.00	\$0.00	\$68.00	\$68.00
570-15100	-	Plan 1380 Pt. Blk B	0.23	0.09	Patrick D. & Linda Z. Kennedy	\$0.00	\$0.00	\$38.00	\$38.00
570-34310	3	Pt. Lot 144 RP10317 Pt. 1	1.83	0.74	DTSY Investments Inc.	\$0.00	\$0.00	\$419.00	\$419.00
570-34207	3	Pt. Lots 144&145 RP9880 Pt. 1	0.89	0.36	Gaudet's Holding Company Ltd.	\$0.00	\$0.00	\$204.00	\$204.00
570-34205	3	Pt. Lots 144,145&146 RP9880 Pt. 2	2.37	0.96	Rajason Associates Inc.	\$0.00	\$0.00	\$543.00	\$543.00
570-34203	3	Pt. S. Pt. Lot 146 RP12R7712 Pt. 1	0.92	0.37	1318895 Ontario Ltd.	\$0.00	\$0.00	\$209.00	\$209.00
570-34201	3	S. Pt. Lot 146 RP12R10386 Pt. 1	1.07	0.43	2072530 Ontario Ltd.	\$0.00	\$0.00	\$243.00	\$243.00
570-34202	3	S. Pt. Lot 146 RP12R10386 Pt. 2	1.07	0.43	Venture 4 Ltd.	\$0.00	\$0.00	\$243.00	\$243.00
570-34200	3	S. Pt. Lots 144-146	2.02	0.82	679637 Ontario Ltd.	\$0.00	\$0.00	\$464.00	\$464.00
570-34060	3	Pt. Lot 148 RP12R12127 Pt. 1	0.84	0.34	Dominant Realty Inc.	\$0.00	\$0.00	\$144.00	\$144.00
570-34058	3	Pt. Lot 148 RP12R12127 Pt. 2	0.88	0.36	Bettermade Cabinets Inc.	\$0.00	\$0.00	\$204.00	\$204.00
570-34056	3	Pt. Lot 148 RP12R12127 Pt. 3	0.88	0.36	Sylvio Lesperance Jr.	\$0.00	\$0.00	\$204.00	\$204.00

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
570-34014	3	Pt. Lot 148 RP12R12127 Pt. 6	0.88	0.36	1185696 Ontario Ltd.	\$0.00	\$0.00	\$204.00	\$204.00
570-34012	3	Pt. Lot 148 RP12R12127 Pt. 5	0.88	0.36	486646 Ontario Ltd.	\$0.00	\$0.00	\$204.00	\$204.00
570-34010	3	Pt. Lot 148 RP12R12127 Pt. 4	0.84	0.34	Cappellino Holdings Inc.	\$0.00	\$0.00	\$192.00	\$192.00
570-34001	3	Pt. Lot 149 RP12R4568 Pts. 1&2	9.03	3.65	Vince Mocerri Holdings Inc.	\$0.00	\$0.00	\$1,549.00	\$1,549.00
Total on Privately-Owned - Non-Agricultural Lands.....						\$0.00	\$0.00	\$23,796.00	\$23,796.00

**PRIVATELY-OWNED - AGRICULTURAL LANDS (GRANTABLE)**

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
560-04100	11	N. Pt. Lot 17	5.28	2.14	Kevin & Lorrie L. MacKenzie	\$0.00	\$0.00	\$303.00	\$303.00
560-04170	11	Pt. Lot 18 RP12R4040 Pt. 7	2.12	0.86	Janet E. Lavin	\$0.00	\$0.00	\$122.00	\$122.00
560-04400	11	W. Pt. Lot 18 RP12R5571 Pt. Pt. 1	7.28	2.95	Deborah Tracey	\$0.00	\$0.00	\$417.00	\$417.00
560-04500	11	N. Pt. Lot 18 RP124040 Pt. 2	20.00	8.09	Pierina Civitillo & Anna Shahbazi	\$0.00	\$0.00	\$3,434.00	\$3,434.00
570-34000	3	S. Pt. Lot 148 RP12R1772 Pts. 1&2	6.00	2.43	2041235 Ontario Ltd.	\$0.00	\$0.00	\$344.00	\$344.00
560-05200	11	Pt. Lots 18&19 RP12R13048 Pt. 1 RP 12R26775	15.37	6.22	James Sylvestre Development Ltd.	\$0.00	\$0.00	\$2,641.00	\$2,641.00
560-05300	11	Pt. Lots 19&20 RP12R26417 Pt. 1	6.32	2.56	851381 Ontario Ltd.	\$0.00	\$0.00	\$1,087.00	\$1,087.00
570-34100	3	S. Pt. Lot 147	11.81	4.78	Clement & Eugene C. Lachance	\$0.00	\$0.00	\$2,029.00	\$2,029.00
Total on Privately-Owned - Agricultural Lands (Grantable).....						\$0.00	\$0.00	\$10,377.00	\$10,377.00

**TOTAL ASSESSMENT (Town of Tecumseh) .....** **\$0.00 \$0.00 \$48,283.00 \$48,283.00**

	(Acres)	(Ha.)
<b>Total Area:</b>	<b>310.60</b>	<b>125.62</b>

Roll No.	Con.	Description	Area Affected (Acres)      (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
<hr/>									
<b><u>CITY OF WINDSOR</u></b>									
<b>PRIVATELY-OWNED LANDS:</b>									
Roll No.	Con.	Description	Area Affected (Acres)      (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
<hr/>									
Urban Assessment (Lands)			20.00	8.09	City of Windsor	\$0.00	\$0.00	\$1,717.00	\$1,717.00
Total on Privately-Owned - Non-Agricultural Lands.....						\$0.00	\$0.00	\$1,717.00	\$1,717.00
<b>TOTAL ASSESSMENT (City of Windsor).</b> .....						<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,717.00</b>	<b>\$1,717.00</b>
			(Acres)	(Ha.)					
<b>Total Area:</b>			<b>20.00</b>	<b>8.09</b>					
<b>OVERALL TOTAL ASSESSMENT (Town of Tecumseh &amp; City of Windsor).</b> .....						<b>\$0.00</b>	<b>\$0.00</b>	<b>\$50,000.00</b>	<b>\$50,000.00</b>
			(Acres)	(Ha.)					
<b>Total Area:</b>			<b>330.60</b>	<b>133.71</b>					

**"SCHEDULE E-2"**  
**SCHEDULE OF ASSESSMENT FOR FUTURE MAINTENANCE**  
**KLONDYKE OVERFLOW DRAIN**  
**TOWN OF TECUMSEH**  
**TOWN OF TECUMSEH**

**MUNICIPAL LANDS:**

Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
County Road No. 43 (Banwell Road)	7.63	3.09	County of Essex	\$0.00	\$0.00	\$237.00	\$237.00
County Road No. 43 (11th Concession Road)	4.67	1.89	County of Essex	\$0.00	\$0.00	\$146.00	\$146.00
County Road No. 42	13.00	5.26	County of Essex	\$0.00	\$45,000.00	\$405.00	\$45,405.00
Odessa Drive	1.00	0.40	Town of Tecumseh	\$0.00	\$0.00	\$31.00	\$31.00
560-05500	7.00	2.83	County of Essex	\$0.00	\$0.00	\$174.00	\$174.00
570-32801	0.05	0.02	Town of Tecumseh	\$0.00	\$0.00	\$1.00	\$1.00
Leboeuf Avenue	1.62	0.66	Town of Tecumseh	\$0.00	\$0.00	\$51.00	\$51.00
Jillian Court	0.37	0.15	Town of Tecumseh	\$0.00	\$0.00	\$12.00	\$12.00
St. Alphonse Street	2.11	0.85	Town of Tecumseh	\$0.00	\$0.00	\$65.00	\$65.00
560-03516	0.13	0.05	County of Essex	\$0.00	\$0.00	\$1.00	\$1.00
580-00300	6.37	2.58	County of Essex	\$0.00	\$0.00	\$199.00	\$199.00
Total on Municipal Lands.....				\$0.00	\$45,000.00	\$1,322.00	\$46,322.00

**PRIVATELY-OWNED - NON-AGRICULTURAL LANDS:**

Roll No.	Con.	Description	Area Affected (Acres) (Ha.)		Owner	Special Benefit	Benefit	Outlet	Total Assessment
560-02900	10	S. Pt. Lot 19	9.00	3.64	Dupuis Trucking & Landscaping	\$0.00	\$0.00	\$168.00	\$168.00
560-03000	10	S. Pt. Lot 19	0.59	0.24	Richard & Jacquelyn Hillock	\$0.00	\$0.00	\$10.00	\$10.00
560-03200	10	S. Pt. Lot 19	8.02	3.25	Raymond Pittao	\$0.00	\$0.00	\$50.00	\$50.00
560-03300	10	S. Pt. Lot 19	8.02	3.25	Taijinder S. & Hardish K. Dhanju	\$0.00	\$0.00	\$50.00	\$50.00
560-03400	10		8.02	3.25	Marie C. Mogyorodi	\$0.00	\$0.00	\$50.00	\$50.00
560-03500	10	Pt. Lot 19 RP12R25489 Pt. 7	27.73	11.22	1000059455 Ontario Inc.	\$0.00	\$0.00	\$173.00	\$173.00
560-03501	10	Pt. Lot 19 RP12R18067	0.95	0.38	Marc A. Lafreniere & Mila Nerizon-Andot	\$0.00	\$0.00	\$12.00	\$12.00
560-03506	10	Pt. Gore Lot 19 RP12R10865 Pts. 1&6	0.40	0.16	Christopher B. & Sherri-Lynn A. Roberts	\$0.00	\$0.00	\$7.00	\$7.00
560-03507	10	Pt. Gore Lot 19 RP12R10865 Pts. 2&7	0.23	0.09	Shelly Hodare	\$0.00	\$0.00	\$4.00	\$4.00
560-03508	10	Pt. Gore Lot 19 RP12R10865 Pts. 3&8	0.23	0.09	Catherine J. Urban	\$0.00	\$0.00	\$4.00	\$4.00
560-03509	10	Pt. Gore Lot 19 RP12R10865 Pts. 4&9	0.23	0.09	Danny & Alana McIntyre	\$0.00	\$0.00	\$4.00	\$4.00
560-03510	10	Pt. Gore Lot 19 RP 12R10865 Pts. 5&10	0.23	0.09	Luminita & Laurentiu R. Vasu	\$0.00	\$0.00	\$4.00	\$4.00
560-03511	10	Pt. Lot 19 RP12R25489 Pt. 2	0.26	0.11	David Orchard & Hannah Bradley	\$0.00	\$0.00	\$5.00	\$5.00
560-03524	10	Pt. Lot 19 RP12R25489 Pt. 1	0.28	0.11	Dana & Danny Azar	\$0.00	\$0.00	\$5.00	\$5.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
560-03525	10	Pt. Lot 19 RP12R25489 Pt. 3	0.25	0.10	Dana & Danny Azar	\$0.00	\$0.00	\$5.00	\$5.00
560-03526	10	Pt. Lot 19 RP12R25489 Pt. 4	0.38	0.15	Dana & Danny Azar	\$0.00	\$0.00	\$7.00	\$7.00
560-04001	11	Pt. Lot 17	1.00	0.40	Jamie Balkwill	\$0.00	\$0.00	\$12.00	\$12.00
560-04005	11	Pt. Lot 17	2.93	1.19	Jamie A. & Corey Balkwill	\$0.00	\$0.00	\$19.00	\$19.00
560-04120	11	Pt. Lot 17 RP12R17414 Pt. 1	0.72	0.29	Scott Mackenzie	\$0.00	\$0.00	\$11.00	\$11.00
560-04200	11	S. Pt. Lot 18 RP12R4040 Pt. 5	1.00	0.40	Thuan Huynh & Khanh Pham	\$0.00	\$0.00	\$12.00	\$12.00
560-04201	11	Pt. Lot 18 RP12R4040 Pt. 6	1.00	0.40	Ridvan Cielza	\$0.00	\$0.00	\$12.00	\$12.00
560-04300	11	S. Pt. Lot 18 RP12R5571 Pt. 2	0.18	0.07	Kirandeep & Harjinder Cheema	\$0.00	\$0.00	\$3.00	\$3.00
560-04303	11	W. Pt. Lot 18 RP12R4040 Pt. 4	1.00	0.40	Pierino & Pierina Civitillo	\$0.00	\$0.00	\$12.00	\$12.00
560-04420	11	Pt. Lot 18 RP12R24711 Pt. 1	1.04	0.42	Christine M. Nostadt	\$0.00	\$0.00	\$13.00	\$13.00
560-04450	11	Pt. Lot 18 RP12R10224 Pt. 1	0.50	0.20	Deborah Tracey	\$0.00	\$0.00	\$9.00	\$9.00
560-04501	11	Pt. Lot 19 RP12R4040 Pt. 1	0.69	0.28	Brian & Elisa Houston	\$0.00	\$0.00	\$11.00	\$11.00
560-04600	11	N. Pt. Lot 19	0.60	0.24	Robert McArthur & Madeleine Blais	\$0.00	\$0.00	\$10.00	\$10.00
560-04700	11	N. Pt. Lot 19 RP12R3925 Pt. 2	0.56	0.23	Arvind Jain	\$0.00	\$0.00	\$10.00	\$10.00
560-04701	11	Pt. Lot 19 RP12R6164 Pt. 2	0.32	0.13	Dmitar & Susan Veresuk	\$0.00	\$0.00	\$6.00	\$6.00
560-04702	11	Pt. Lot 19 RP12R6164 Pt. 3	0.50	0.20	Michelle A. Desjardins	\$0.00	\$0.00	\$9.00	\$9.00
560-04800	11	Pt. Lot 19 RP12R5602 Pt. 2	0.89	0.36	Lionel J. & Gail M. Baillargeon	\$0.00	\$0.00	\$12.00	\$12.00
560-04810	11	Pt. Lot 19 RP12R8619 Pt. 1	0.89	0.36	Gail M. Baillargeon	\$0.00	\$0.00	\$12.00	\$12.00
560-04900	11	Pt. Lot 19	0.82	0.33	Rupinderpal S. Sidhu & Sarabjit S. Sandhu	\$0.00	\$0.00	\$12.00	\$12.00
560-05000	11	Pt. Lot 19	2.49	1.01	2177219 Ontario Inc.	\$0.00	\$0.00	\$47.00	\$47.00
560-05100	11	Pt. Lot 19 RP12R9328	2.39	0.97	2177219 Ontario Inc.	\$0.00	\$0.00	\$45.00	\$45.00
560-05109	11	Pt. Lot 19 RP12R9470	0.99	0.40	1627093 Ontario Ltd.	\$0.00	\$0.00	\$25.00	\$25.00
560-05207	11	Pt. Lot 19 RP12R9470	3.06	1.24	1830022 Ontario Inc.	\$0.00	\$0.00	\$57.00	\$57.00
560-05210	11	Pt. Lot 19 & 20 RP12R4646 Pt. 1 RP12R14113 Pt. 1	2.54	1.03	Delta Holdings Inc.	\$0.00	\$0.00	\$48.00	\$48.00



Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
560-05302	11	Pt. Lot 19&20 RP12R5167 Pt. 1	0.86	0.35	Quad T. Developments Inc.	\$0.00	\$0.00	\$22.00	\$22.00
560-05310	11	Pt. Lots 19&20 RP12R14425 Pt. 2	0.74	0.30	1501759 Ontario Inc.	\$0.00	\$0.00	\$14.00	\$14.00
560-05311	11	Pt. Lots 19&20 RP12R6451 Pt. 10	0.61	0.25	Michael Silversen	\$0.00	\$0.00	\$15.00	\$15.00
560-05320	11	Pt. Lot 19&20 RP12R14425 Pt. 1	0.74	0.30	Giuseppa Piptone	\$0.00	\$0.00	\$9.00	\$9.00
560-05400	11	Pt. Lot 19 to 20 EPT	5.28	2.14	Chase Transportation & Logistics Ltd.	\$0.00	\$0.00	\$99.00	\$99.00
560-05600	-	Plan 12M333 Blk 96	1.39	0.56	1000038843 Ontario Inc.	\$0.00	\$0.00	\$9.00	\$9.00
570-14500	-	Pt. Lots 236&237 Pt. Blk A	0.24	0.10	David A. Newcombe	\$0.00	\$0.00	\$5.00	\$5.00
570-14600	-	Plan 1380 Pt. Blk A	0.24	0.10	David N. & Mabel J. Desrosiers	\$0.00	\$0.00	\$5.00	\$5.00
570-14700	3	Plan 1380 Pt. Blk A	0.24	0.10	Baldip & Daljit Sandhar	\$0.00	\$0.00	\$5.00	\$5.00
570-14800	3	Plan 1380 Pt. Blk A	0.24	0.10	Jerry Sagat & Yan Hao	\$0.00	\$0.00	\$5.00	\$5.00
570-14900	3	Lot 151 RP12R19655 Pts. 14&15	0.27	0.11	Jerry Sagat & Yan Hao	\$0.00	\$0.00	\$5.00	\$5.00
570-14901	3	Pt. Lot 151 RP12R19655 Pts. 12&13	0.27	0.11	John & Laura Levinsky	\$0.00	\$0.00	\$5.00	\$5.00
570-14902	3	Pt. Lot 151 RP12R19655 Pts. 10&11	0.41	0.17	Eric C. & Michelle L. Girard	\$0.00	\$0.00	\$8.00	\$8.00
570-14903	3	Pt. Lot 151 RP12R19655 Pts. 8&9	0.26	0.11	Vincent & Janeth Boyd	\$0.00	\$0.00	\$5.00	\$5.00
570-14904	3	Pt. Lot 151 RP12R19655 Pts. 6&7	0.42	0.17	Zelko Rezler & Mary Kristo-Resler	\$0.00	\$0.00	\$8.00	\$8.00
570-14905	3	Pt. Lot 151 RP12R19655 Pts. 4&5	0.25	0.10	Tomy J. & Paulette Jagatic	\$0.00	\$0.00	\$5.00	\$5.00
570-14906	3	Pt. Lot 151 RP12R19655 Pts. 2&3	0.23	0.09	Eric & Sandra J. Godin	\$0.00	\$0.00	\$4.00	\$4.00
570-15000	3	Plan 1380 Pt. Blk B	0.22	0.09	John D. & Patricia M. Levesque	\$0.00	\$0.00	\$4.00	\$4.00
570-15100	3	Pt. Lot 151 RP12R3619 Pt. 1	0.23	0.09	Patrick D. & Linda Kennedy	\$0.00	\$0.00	\$4.00	\$4.00
570-15200	-	Plan 1380 Pt. Blk B RP12R9006 Pts. 1&2	0.39	0.16	Ronald E. Delisle	\$0.00	\$0.00	\$7.00	\$7.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total
			(Acres)	(Ha.)					Assessment
570-15300	-	Plan 1380 Pt. Blk B RP12R7285 Pt. 1	0.41	0.17	Palko & Mirjana Kohut	\$0.00	\$0.00	\$8.00	\$8.00
570-15400	-	Plan 1380 Pt. Blk B	0.25	0.10	Sharon L. McDermid	\$0.00	\$0.00	\$5.00	\$5.00
570-15500	-	Plan 1380 Pt. Blk B	0.23	0.09	Victoria A. Muldoon	\$0.00	\$0.00	\$4.00	\$4.00
570-15600	-	Plan 1380 Pt. Blk B	0.23	0.09	Gregory D. Renaud	\$0.00	\$0.00	\$4.00	\$4.00
570-32000	-	Plan 1380 Lots 64-75 Lots 105 to 116, 210-221 Pt Lots 63, 117, 209	5.25	2.12	Windsor-Essex Catholic District School Board	\$0.00	\$0.00	\$131.00	\$131.00
570-32002	-	Plan 1380 Lots 57-62 Lots 118-123 Lots 203- 208 Pt Lots 63,117,209 Pt. Blk E	2.73	1.10	Extendicare (Canada) Inc.	\$0.00	\$0.00	\$68.00	\$68.00
570-32100	-	Plan 1380 Lots 222&223 RP12R12345 Pt. 1	0.24	0.10	Sharren Paquin	\$0.00	\$0.00	\$5.00	\$5.00
570-32300	-	Plan 1380 Lots 224&225 RP12R12345 Pt. 3	0.24	0.10	Shelley L. Beno	\$0.00	\$0.00	\$5.00	\$5.00
570-32500	-	Plan 1380 Lots 226&227 RP12R12345 Pt. 5	0.24	0.10	Connor Rumfeldt & Caterina Augimeri	\$0.00	\$0.00	\$5.00	\$5.00
570-32600	-	Plan 1380 Lot 228 Lot 229 RP12R12345 Pt. 6	0.24	0.10	Joseph P. & Janice M. Labreche	\$0.00	\$0.00	\$5.00	\$5.00
570-32700	-	Plan 1380 Lots 230 & 231	0.24	0.10	John B. Mailloux	\$0.00	\$0.00	\$5.00	\$5.00
570-32800	-	Plan 1380 Lot 232 RP12R12345 Pts. 10&11	0.17	0.07	Cheryl M. & Michael Todd	\$0.00	\$0.00	\$3.00	\$3.00
570-32900	-	Plan 1380 Lot 233 Pt. Lots 234&235 RP12R2299 Pts. 2&3 RP12R12345 Pt. 12	0.26	0.11	Houman & Fatemeh Jafarnia	\$0.00	\$0.00	\$5.00	\$5.00
570-33000	-	Plan 1380 Pt. Lots 91-94 RP12R22747 Pt. 2	0.23	0.09	Susan A. Knight	\$0.00	\$0.00	\$4.00	\$4.00
570-33100	-	Plan 1380 Pt. Lots 90,91&94 RP12R22747 Pt. 3	0.23	0.09	Community Living Essex County	\$0.00	\$0.00	\$4.00	\$4.00
570-33200	-	Plan 1380 Lot 95 Pt. Lot 94 RP12R22747 Pt. 1	0.26	0.11	George C. Copeland	\$0.00	\$0.00	\$5.00	\$5.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
570-33300	3	Plan 1380 Lot 96 Pt. Lot 97 RP12R18192 Pt. 14	0.22	0.09	Joseph & Maria Conflitti	\$0.00	\$0.00	\$4.00	\$4.00
570-33350	-	Plan 1380 Lot 98 Pt. Lots 97&99 RP12R18192 Pt. 13	0.22	0.09	Miroljub & Branislava Zagorac	\$0.00	\$0.00	\$4.00	\$4.00
570-33400	-	Plan 1380 Lot 100 Pt. Lots 99&101 RP12R18192 Pt. 12	0.22	0.09	Naci Kurt	\$0.00	\$0.00	\$4.00	\$4.00
570-33450	-	Plan 1380 Lot 102 Pt. Lots 101&103 RP18192 Pt. 11	0.22	0.09	Roxanna E. Sarkis	\$0.00	\$0.00	\$4.00	\$4.00
570-33500	-	Plan 1380 Pt. Lots 103&104 RP12R18192 Pt. 10	0.22	0.09	John J. Smith & Karen Loebach-Smith	\$0.00	\$0.00	\$4.00	\$4.00
570-33700	-	Plan 1380 Lot 76 Pt. Lot 77 RP12R18192 Pt. 9	0.19	0.08	Rudy A. & Elizabeth J. Viale	\$0.00	\$0.00	\$4.00	\$4.00
570-33710	-	Plan 1380 Lot 78 Pt. Lots 77&79 RP12R18192 Pt. 8	0.19	0.08	Luc M. Gagnon	\$0.00	\$0.00	\$4.00	\$4.00
570-33720	-	Plan 1380 Pt. Lots 79&80 RP12R18192 Pt. 7	0.19	0.08	Stacey A. Bennett	\$0.00	\$0.00	\$4.00	\$4.00
570-33730	-	Plan 1380 Lot 81 Pt. Lots 80&82 RP12R18192 Pt. 6	0.19	0.08	Milan & Svetlana Spanovic	\$0.00	\$0.00	\$4.00	\$4.00
570-33740	-	Plan 1380 Pt. Lots 82&83 RP12R18192 Pt. 5	0.19	0.08	Justin Firor & Kaylee Brown	\$0.00	\$0.00	\$4.00	\$4.00
570-33750	-	Plan 1380 Lot 84 Pt. Lots 83&85RP 12R18192 Pt. 4	0.19	0.08	Ivan & Barka Kristo	\$0.00	\$0.00	\$4.00	\$4.00
570-33760	-	Plan 1380 Pt. Lots 85&86 RP12R8192 Pt. 3	0.19	0.08	Joseph L. & Joy E. Goyeau	\$0.00	\$0.00	\$4.00	\$4.00
570-33770	-	Plan 1380 Pt. Lots 86-89 RP12R18192 Pt. 2	0.19	0.08	Susanne V. & Michael V. Matteis	\$0.00	\$0.00	\$4.00	\$4.00
570-33800	-	Plan 1380 Pt. Lots 87-89 RP12R18192 Pt. 1	0.25	0.10	Elon & Norma Clemmings	\$0.00	\$0.00	\$5.00	\$5.00
570-34001	3	Pt. Lot 149 RP12R4568 Pts. 1&2	9.03	3.65	Vince Mocerri Holdings Inc.	\$0.00	\$0.00	\$169.00	\$169.00
570-34010	3	Pt. Lot 148 RP12R12127 Pt. 4	0.84	0.34	Cappellino Holdings Inc.	\$0.00	\$0.00	\$21.00	\$21.00
570-34012	2	Pt. Lot 148 RP12R12127 Pt. 5	0.88	0.36	486646 Ontario Ltd.	\$0.00	\$0.00	\$22.00	\$22.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
570-34014	3	Pt. Lot 148 RP12R12127 Pt. 6	0.88	0.36	1185696 Ontario Ltd.	\$0.00	\$0.00	\$22.00	\$22.00
570-34056	3	Pt. Lot 148 RP12R12127 Pt. 3	0.88	0.36	Sylvio Lesperance Jr.	\$0.00	\$0.00	\$22.00	\$22.00
570-34058	3	Pt. Lot 148 RP12R12127 Pt. 2	0.88	0.36	Bettermade Cabinets Inc.	\$0.00	\$0.00	\$22.00	\$22.00
570-34060	3	Pt. Lot 148 RP12R12127 Pt. 1	0.84	0.34	Dominant Realty Inc.	\$0.00	\$0.00	\$16.00	\$16.00
570-34200	3	S. Pt. Lots 144-146	2.02	0.82	679637 Ontario Ltd.	\$0.00	\$0.00	\$51.00	\$51.00
570-34201	3	S. Pt. Lot 146 RP12R10386 Pt. 1	1.07	0.43	2072530 Ontario Ltd.	\$0.00	\$0.00	\$27.00	\$27.00
570-34202	3	S. Pt. Lot 146 RP12R10386 Pt. 2	1.07	0.43	Venture 4 Ltd.	\$0.00	\$0.00	\$27.00	\$27.00
570-34203	3	Pt. S. Pt. Lot 146 RP12R7712 Pt. 1	0.92	0.37	1318895 Ontario Ltd.	\$0.00	\$0.00	\$23.00	\$23.00
570-34205	3	Pt. Lots 144,145&146 RP9880 Pt. 2	2.37	0.96	Rajason Associates Inc.	\$0.00	\$0.00	\$59.00	\$59.00
570-34207	3	Pt. Lots 144&145 RP9880 Pt. 1	0.89	0.36	Gaudet's Holding Company Ltd.	\$0.00	\$0.00	\$22.00	\$22.00
570-34300	3	Pt. Lots 144-146 RP12R23680 Pts. 1,3&11-15	2.10	0.85	1000044993 Ontario Inc.	\$0.00	\$0.00	\$13.00	\$13.00
570-34310	3	Pt. Lot 144 RP10317 Pt. 1	1.83	0.74	DTSY Investments Inc.	\$0.00	\$0.00	\$46.00	\$46.00
580-00100	-	Plan 65 Pt. Lot A RP12R8316 Pt. 4	0.29	0.12	William J. Toth & Doreen E. Hynes	\$0.00	\$0.00	\$6.00	\$6.00
580-00101	-	Plan 65 Pt. Lot A RP12R8316 Pt. 3	0.24	0.10	John E. Lachowicz	\$0.00	\$0.00	\$5.00	\$5.00
580-00110	3	Plan 65 Pt. Lot 1 & Pt. Lot A RP12R6076 Pt. 3	0.59	0.24	Binh H. Luong & Ling S. Lin	\$0.00	\$0.00	\$10.00	\$10.00
580-00200	3	PL 65 Pt. Lot 1 RP12R6076 Pt. 2	0.62	0.25	Jon M. & Patricia A. Grubisich	\$0.00	\$0.00	\$11.00	\$11.00
580-00201	3	PL 65 Pt. Lot 1 RP12R6076 Pt. 1	0.59	0.24	Wanda Johnston	\$0.00	\$0.00	\$10.00	\$10.00
580-00202	3	Plan 65 Pt. Lot 1 Pt Lot A RP12R4377 Pt. 2	0.60	0.24	Faize O. Antwan	\$0.00	\$0.00	\$10.00	\$10.00
580-00203	3	Pt. Lot 1 Plan 65 Pt. Lot A RP12R4377 Pt. 1	0.60	0.24	Vittorio Rotondi	\$0.00	\$0.00	\$10.00	\$10.00
580-00204	3	Plan 65 Pt. Lot 1 Pt. BLK A RP12R11482 Pt. 1	1.43	0.58	Tilda Zanet	\$0.00	\$0.00	\$27.00	\$27.00

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
580-00500	3	S. Pt. Lot 142 Plan 65 Pt. Lot 1&A	1.00	0.40	Rami Dawoud	\$0.00	\$0.00	\$18.00	\$18.00
580-00550	3	Pt. Lot 141 RP12R10914 Pt. 1	0.47	0.19	Mark Charette & Tricia Hunter	\$0.00	\$0.00	\$9.00	\$9.00
580-05400	3	Plan 65 Lot 3 & Pt Lots 1,2&4	17.30	7.00	1000227395 Ontario Ltd.	\$0.00	\$0.00	\$108.00	\$108.00
580-05500	3	Plan 65 Pt. Lot 2	0.34	0.14	Mirna Khozmy	\$0.00	\$0.00	\$6.00	\$6.00
580-05600	3	S. Pt. Lot 143	1.00	0.40	Carl G. & Karen Baillargeon	\$0.00	\$0.00	\$12.00	\$12.00
580-05602	3	Plan 65 Pt. Lot 1 RP12R8397 Pt. 1	0.47	0.19	Marc T. & Carole M. Whaling	\$0.00	\$0.00	\$9.00	\$9.00
580-05700	3	Plan 65 Pt. Lot 1 RP12R8397 Pt. 2	0.53	0.21	Peter & Nicole Catterson	\$0.00	\$0.00	\$10.00	\$10.00
580-05800	-	Plan 65 Pt. Lot 1 RP12R8316 Pt. 1	0.23	0.09	Isfendiyar & Canan Ozcan	\$0.00	\$0.00	\$4.00	\$4.00
580-05802	-	Plan 65 Pt. Lot 1&A RP12R8316 Pt. 2	0.23	0.09	John S. & Linda K. Trella	\$0.00	\$0.00	\$4.00	\$4.00
Total on Privately-Owned - Non-Agricultural Lands.....						\$0.00	\$0.00	\$2,362.00	\$2,362.00
<b>PRIVATELY-OWNED - AGRICULTURAL LANDS (GRANTABLE)</b>									
Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
560-04100	11	N. Pt. Lot 17	5.28	2.14	Kevin & Lorrie L. MacKenzie	\$0.00	\$0.00	\$33.00	\$33.00
560-04170	11	Pt. Lot 18 RP12R4040 Pt. 7	2.12	0.86	Janet E. Lavin	\$0.00	\$0.00	\$13.00	\$13.00
560-04400	11	W. Pt. Lot 18 RP12R5571 Pt. Pt. 1	7.28	2.95	Deborah Tracey	\$0.00	\$0.00	\$45.00	\$45.00
560-04500	11	N. Pt. Lot 18 RP12R4040 Pt. 2	20.00	8.09	Pierina Civitillo & Anna Shahbazi	\$0.00	\$0.00	\$374.00	\$374.00
570-34000	3	Pt. Lot 148 RP12R1772 Pts. 1&2	6.00	2.43	2041235 Ontario Ltd.	\$0.00	\$0.00	\$37.00	\$37.00
560-05200	11	Lots 18&19 RP12R13048 Pt. 1 RP 12R26775	15.37	6.22	James Sylvestre Development Ltd.	\$0.00	\$0.00	\$288.00	\$288.00
560-05300	11	Pt. Lots 19&20 RP12R26417 Pt. 1	6.32	2.56	851381 Ontario Ltd.	\$0.00	\$0.00	\$118.00	\$118.00
570-34100	3	Pt. Lot 147	11.81	4.78	Clement & Eugene C. Lachance	\$0.00	\$0.00	\$221.00	\$221.00
Total on Privately-Owned - Agricultural Lands (Grantable).....						\$0.00	\$0.00	\$1,129.00	\$1,129.00
<b>TOTAL ASSESSMENT (Town of Tecumseh) .....</b>						<b>\$0.00</b>	<b>\$45,000.00</b>	<b>\$4,813.00</b>	<b>\$49,813.00</b>
			(Acres)	(Ha.)					
<b>Total Area:</b>			<b>289.94</b>	<b>117.36</b>					

Roll No.	Con.	Description	Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
<u>CITY OF WINDSOR</u>									
MUNICIPAL LANDS:									
Description			Area Affected		Owner	Special Benefit	Benefit	Outlet	Total Assessment
			(Acres)	(Ha.)					
Urban Block Assessment Lands			20.00	8.09	City of Windsor	\$0.00	\$0.00	\$187.00	\$187.00
Total on Privately-Owned - Municipal Lands.....						\$0.00	\$0.00	\$187.00	\$187.00
TOTAL ASSESSMENT (City of Windsor).....						\$0.00	\$0.00	\$187.00	\$187.00
			(Acres)	(Ha.)					
Total Area:			20.00	8.09					
OVERALL TOTAL ASSESSMENT.....						\$0.00	\$45,000.00	\$5,000.00	\$50,000.00
			(Acres)	(Ha.)					
Total Area:			309.94	125.45					

"SCHEDULE F"  
DRAINAGE REPORT FOR THE  
**KLONDYKE & KLONDYKE OVERFLOW DRAIN**  
IN THE TOWN OF TECUMSEH  
**SPECIAL PROVISIONS - GENERAL**

**1.0 GENERAL SPECIFICATIONS**

The General Specifications attached hereto is part of "Schedule F." It also forms part of this specification and is to be read with it, but where there is a difference between the requirements of the General Specifications and those of the Special Provisions which follow, the Special Provisions will take precedence.

**2.0 DESCRIPTION OF WORK**

The work to be carried out under this Contract includes, but is not limited to, the supply of all **labour, equipment and materials** to complete the following items:

- Fill existing 1600 mm diameter CSP along existing fence, approximately 112 m long with concrete grout including CB/MH.
- Removal and disposal of existing private access bridges off-site complete with headwalls (approximately 270 m of 600-1200 mm diameter pipes).
- Clearing and grubbing of existing ditch (Klondyke Drain) including removal of organic material and topsoil. Filling in of existing drain with benching per OPSD 208.010). *Note: Soils used for the filling of the drain shall be handled in accordance with O.Reg 406/19 On-Site and Excess Soils Management.*
- Supply and install concrete A257.2 65-D storm sewers, as follows:
  - Sta. 0+286.7 to Sta. 0+315.5 - Supply and install 28.8 m of 1500 mm diameter reinforced concrete pipe.
- Supply and install concrete storm manhole complete with frame and grate, as follows:
  - 3000 mm diameter (1 required)
- Temporary Silt Control Measures During Construction

**3.0 ACCESS TO THE WORK**

Access to the drain shall be from County Road No. 42 right-of-way. The Contractor shall make his/her own arrangements for any additional access for his/her convenience. All road areas and grass lawn areas disturbed shall be restored to original conditions at the Contractor's expense.

**4.0 WORKING AREA**

The working area shall be within the County Road No. 42 right-of-way and 6 metres centered over top of the Klondyke Drain west of STMH 48 for the removal of the drain and subsequent restoration. The working area for the Klondyke Overflow shall be within the designated easement.

## **SPECIAL PROVISIONS – CONCRETE PIPE AND MANHOLES**

### **5.0 STORM SEWERS AND CULVERTS**

#### **General**

OPSS.MUNI 407, 409, 410 and 514 shall apply and govern the work except as amended or extended herein.

#### **Scope of Work**

Storm sewers and culverts shall be supplied and installed as shown on the Contract Drawings and described herein including connections to existing sewers or manholes, private service connections, reconnection of existing catchbasins and private drain connections, and supply and installation of grates.

The new sewers and culverts shall be kept dry at all times by pumping or other means.

#### **Excavation**

The Contractor shall note that the installation of storm sewers shall be completed with full height trench support in order to minimize trench width and restoration requirements. The Contractor shall be responsible to ensure that the use of engineered or prefabricated trench support systems are appropriate to comply with all regulations issued by the Ministry of Labour for the Province of Ontario in regard to work in open trenches.

The Contractor shall be responsible for the full costs of repair or replacement of asphalt pavement, as determined by the Engineer, including excavation, removal of existing asphalt, Granular "A", paving equipment, labour, traffic control, and any other costs associated with replacement of asphalt which is damaged by the Contractor's negligence as part of this work. The repair/replacement shall be inspected and approved by the Engineer and the County prior to project completion.

The Contractor will be responsible for minimizing disturbance to existing hydro and telecommunication poles including guy poles. The Contractor shall provide support as required and coordinate with Hydro One for support of Hydro One owned poles.

#### **Excavated Materials**

All excavated materials determined by the Engineer to be unsuitable or in excess for backfill, including earth, rock, broken concrete, rubble and broken asphalt, shall be removed from the work by the Contractor. The Contractor shall make arrangement for disposal and must comply with legislation governing disposal sites as outlined within the Contract Documents.

All excess material, as well as select native material which is to be used for backfill is to be placed directly into trucks and either hauled from the site or used to backfill the sewer trench, in accordance with the Contract Drawings.

The cost of removal and disposal of excess materials shall be included in the Contractor's Tender unit prices for storm sewers and culverts.

No sidecasting of excavated materials will be permitted without the approval of the Engineer.

#### **Utility Supports**

Where required, the Contractor shall construct utility supports following specifications and requirements of the respective Utility Companies. Utility supports shall be considered incidental to sewer construction. No payment shall be made for supports either temporary or permanent.



Utility supports shall be constructed as required by the respective utility companies per their respective standards and guidelines as outlined therein.

#### Control of Water

The Contractor shall be solely responsible for insuring that all work is carried out in the dry and that partially completed work shall remain dry.

The method(s) of controlling surface or sub-surface water shall be by pumping or other methods as may be approved by the Engineer.

The Contractor shall assume full responsibility for all damages done to the works through the influence of water. They shall immediately repair any damage so caused without cost to the Owner.

No extra payment will be allowed for dewatering regardless of the method used.

#### Pipe Material

All storm sewer pipe material shall be as indicated on the Contract Drawings.

HDPE culverts shall be CSA approved and have a pressure rating of 320 kPa PVC culverts shall be DR 35.

#### Maximum Acceptable Grade Tolerances

Maximum acceptable deviations in the sewer grade shall be +/-0.02% which is equivalent to 20 mm in 100 m of installation.

#### Bedding & Cover Material

Class "B" bedding and cover material shall be Granular "A", compacted to 98 percent of the Standard Proctor Maximum Dry Density, to the dimensions detailed on the Contract Drawings (300 mm above the top of the pipe) unless under roadway.

The use of "sewer stone" bedding which complies with the following gradation specification will be permitted. In the presence of existing, fine-grained granular material, the pipe bedding is to be completely enclosed in a non-woven geotextile to prevent infiltration of fines.

<b>Sieve Designation (inches)</b>	<b>Percent Passing</b>
1	100
3/4	96-100
5/8	78-93
1/2	51-88
3/8	26-62
No. 4	5-14
No. 8	0-5

#### Backfill & Compaction

Sewer trench backfill shall be Granular "A" or recycled material under all paved surfaces including driveways, sidewalks and trails, and within 1 metre of back of curb and 1 metre from the edge of shoulder unless otherwise specified. Select native material is acceptable at other locations.

Granular backfill material is to be mechanically compacted to a minimum of 100 percent of the Standard Proctor Maximum Dry Density in maximum 300 mm lifts.

Native backfill material is to be mechanically compacted to a minimum of 98 percent of the Standard Proctor Maximum Dry Density in maximum 300 mm lifts.

Backfilling operations are to follow immediately behind sewer and culvert installation. Where bracing, shoring and/or sheeting is used to support the sides of the excavation or to prevent movements that could damage other services or adjacent pavements, this support shall be removed as backfilling proceeds.

#### Non-Shrink Fill Material

Portland cement stabilized granular backfill, known as non-shrink fill, shall be used to backfill excavations within the limits of the roadway, including a distance up to 1 m from the edge of shoulder, where working space is limited. This includes excavations adjacent to structures such as manholes and catchbasins, or any other location where standard hoe-pack equipment cannot be used for mechanical compaction of backfill material.

Materials to be used for non-shrink fill material shall have the following properties:

- a) Cement type - Normal Portland.
- b) Aggregate shall be Granular "A" or Granular "B" Type 1 with 100 percent passing the 1.5 inch sieve.
- c) Slump at point of discharge shall be 150 mm to 200 mm.
- d) Admixtures shall conform to OPSS 1303 but calcium chloride or pozzolanic mineral admixtures shall not be used. Air entraining admixtures may be added if desired to reduce segregation.
- e) Minimum 24-hour strength to be 70 kilopascals and minimum 28 day strength to be 700 kilopascals.

Mix proportions shall be selected in accordance with the latest revision of Section 14 of CSA Specification CAN3-A23.1-M77 where applicable. Approximate proportion per cubic yard for estimating only, - 19 kg of cement, 1637 kg of Granular "A".

Non-shrink fill material shall flow into the excavation so that the entire space is filled and be excavatable in the future.

#### Maintenance of Flow in Sewers, Drains and Ditches

The Contractor shall, at its own cost and expense, permanently provide for and maintain the flow of all sewers, catchbasin leads, drains, ditches, and water courses which may be encountered during the progress of the work, including the connection of existing drains to the new sewer.

Should the Contractor wish to divert, block or otherwise impede or alter flows in any existing sewers, drains, ditches or water courses, it shall be required to submit details and sketches of its proposed methods, to the Engineer and/or Conservation Authority, DFO, MNR and other regulatory agencies for approval, prior to proceeding. This submission shall include any emergency measures which may be required in the event of heavy rainfalls, sewer surcharging, flooding, etc. The Contractor shall provide written confirmation that all materials used have been removed and the sewers, drains, ditches or water courses have been restored to original condition or to the satisfaction of the Engineer. Such restoration may include but not be limited to the flushing of sewers, topsoil, planting of grass or vegetation, rip rap.

### Connection to Existing Sewers and Culverts

The Contractor to note that all new connections into the existing storm sewer requires the use of a Kor-N-Seal connection or approved equal as agreed by the Engineer and the County.

All connections to existing culverts shall be made using approved couplers.

### Closed Circuit Television Inspection

The Contractor shall have the sewers flushed and professionally videoed, in accordance with OPSS 409 and to the satisfaction of the Engineer. All installed sewers are to be flushed, and camera inspected at the start and end of maintenance (two inspections). Reports are to be provided to the Engineer for review. Installed culverts are exempt from this requirement.

The Contractor shall satisfy themselves of the acceptability of installed sewers prior to completing restoration. Any restoration over installed sewers that have not been CCTV inspected and reviewed and accepted by the Engineer shall be done at the Contractor's own risk.

The Owner and the Engineer reserve the right to direct the Contractor to conduct a CCTV inspection during the course of construction if it is deemed appropriate to investigate the quality of the Contractor's work. The Contractor shall schedule this work to ensure that a representative of the Owner and the Engineer are on-site full-time during this CCTV inspection.

A provisional item for CCTV inspection of existing sewers to determine private drain connection locations has been included and is to be used if locating private drain connections cannot be done by other means.

### Quality Control of Concrete Sewer Pipe

The Owner reserves the right to have third party inspection completed on a section of concrete pipe at locations as decided by the Owner and Engineer. Testing methods will be non-destructive in nature, unless there is sufficient reasoning to perform more invasive testing to confirm the pipe meets quality standards, as deemed by the Owner and Engineer.

Should unacceptable pipe materials be encountered, the cost of labour, materials and equipment necessary to remove the unacceptable work, as well as the costs associated with undertaking the third party inspection of the work, shall be borne by the Contractor.

## **6.0 STORM MANHOLES**

### General

OPSS.MUNI 407 shall apply and govern except as amended or extended herein.

### Scope of Work

Precast concrete manholes are to be supplied and installed in conjunction with the installation of the sewer and shall be equipped with cast iron frames and covers to OPSD 401.010 (Type A), ladder rungs to OPSD 405.020 and adjustment units shall be IPEX Lifesaver Adjustment Rings. Type 20 cement shall be used for all manholes.

The Contractor shall consider the elevation of the future road as shown in the drawings when placing adjustment rings and shall ensure that there is an adequate number of adjustment rings to facilitate lowering of the roadway in a future roadwork contract.

The Contractor shall be responsible to ensure that the use of engineered or prefabricated trench support systems are appropriate to satisfy the requirements of the Occupational Health and Safety Act.

The location of private drain connections may be revised depending on final locations confirmed with landowners. An extra credit to the tendered price shall only be considered if there is a 300 mm or more difference between the as-built depth to invert and the design depth to invert.

#### Backfill

Backfill shall be Granular “A”, mechanically compacted to 100 percent of the Standard Proctor Maximum Dry Density. Handheld mechanical compaction equipment or non-shrink fill shall be used where other conventional compaction equipment cannot be used.

#### Utility Supports

Where required, the Contractor shall construct utility supports following specifications and requirements of the respective Utility Companies. Utility supports shall be considered incidental to sewer construction. No payment shall be made for supports either temporary or permanent.

Utility supports shall be constructed as required by the respective utility companies per their respective standards and guidelines as outlined therein.

All storm manholes installed shall meet the dimensions and locations outlined in the drawings. Precast concrete manholes shall conform to the requirements of Ontario Provincial Standard Specification (OPSS) 1351. The floor elevation shall be at least 300 mm below the invert of the outlet pipe in the wall of the catch basin.

Pipe placed in the walls for inlet and outlet connections shall extend through the wall a sufficient distance to allow for connections. The pipes shall be trimmed flush with the inside wall and shall be securely sealed into place using grout.

All manholes shall be supplied with 1 – 150 mm riser section installed on top of the structure so that future adjustments can be made. They shall also be supplied with frames, covers, safety platforms, ladder rungs and benching. Type 20 cement shall be used for all manholes.

Backfill shall be imported approved OPSS Granular “A”. Backfill shall be mechanically compacted to a minimum of 98 percent of the Standard Proctor Maximum Dry Density.

The width of the excavation for the manhole shall be sufficient to permit mechanical compaction of the backfill material using vibratory plate hoe-pack equipment.

## **7.0 REMOVAL/ABANDONMENT OF EXISTING STORM SEWERS AND CULVERTS**

#### General

OPSS.MUNI 510 shall apply and govern except as amended or extended herein.

#### Scope of Work

The Contractor will be required to remove and dispose of existing storm sewers, catchbasin leads, and culverts (all material types), as identified on the Contract Drawings or as directed by the Engineer.

Backfilling of void left behind shall be considered part of this work. Backfill under all paved surfaces including driveways, sidewalks and trails, and within 1 metre of back of curb and 1 metre from the edge of shoulder shall be Granular “A” compacted in maximum 300 mm lifts to 100 percent Standard

Proctor Dry Density. Backfill in other areas can be approved recycled granular or native material compacted to 98 percent of the Standard Proctor Maximum Dry Density in maximum 300 mm lifts.

No claim for delays will be paid for sewers encountered that were not shown on the drawings.

The Contractor will be required to form end seal or brick and parge the existing sewers and culverts and fill with 4 MPa non-shrink fill as determined by the Engineer if the sewer has been deemed unable to be removed (Provisional).

The Contractor shall take all necessary precautions to ensure that the sewers/leads are identified, and all live connections are reconnected to the new sewer system as required, including dye testing, etc., as may be necessary to satisfy the Engineer that all connections have been identified and reconnected. Should other means of locating connections prove unsuccessful, CCTV inspection of the sewers may be required as approved by the Engineer. Costs associated with flushing and CCTV of existing sewers shall be paid under separate items in the Form of Tender.

The Contractor shall maintain all drainage, including catchbasins prior to removing sewers.

## **8.0 HYDRAULIC SEED AND MULCH**

### General

OPSS.MUNI 804 shall apply and govern the work except as amended or extended herein.

### Scope of Work

The new swale banks and boulevard areas, as a result of the works shall be top dressed with a minimum 100 mm layer of topsoil, graded and hydraulic mulch seeded as specified herein. The surface shall be predominantly fine and free from weeds and other unwanted vegetation. All other loose surface litter shall be removed and disposed of. The areas shall then be seeded with Primary Seed Type 1 Canada No. 1 grass seed mixture, as follows:

<i>Creeping Red Fescue</i>	50%
<i>Canada Bluegrass</i>	35%
<i>Perennial Ryegrass</i>	15%

Bags shall bear the label of the supplier indicating the content by species, grade and mass. Seed shall be applied at a rate of 100 kg per 10,000 m<sup>2</sup>.

Fertilizer shall be 8-32-16 applied at 350 kg per 10,000 m<sup>2</sup>. It shall be in granular form, dry, free from lumps and in bags bearing the label of the manufacturer, indicating mass and analysis.

Hydraulic mulch shall consist of finely ground cellulose pulp derived from recycled newsprint and shall be dyed green. Its fibre consistency shall be approximately 60% fine fibre with the balance being paper particles, 40% of which shall be a diameter of 3 mm minimum and 6 mm maximum. Hydraulic mulch shall be applied at 2,000 kg per 10,000 m<sup>2</sup>. Clean water shall be applied at 42,700 litres per 10,000 m<sup>2</sup>.

Seeding and mulching shall be a one step process in which the seed, fertilizer and hydraulic mulch are applied simultaneously in a water slurry via the hydraulic seeder/mulcher. The materials shall be added to the supply tank while it is being loaded with water. The materials shall be thoroughly mixed into a homogeneous water slurry and shall be distributed uniformly over the prepared surface. The materials shall be measured by mass or by a mass-calibrated volume measurement, acceptable to the Engineer.

The hydraulic seeder/mulcher shall be equipped with mechanical agitation equipment capable of mixing the materials into a homogenous state until applied. The discharge pumps and gun nozzles shall be capable of applying the material uniformly.

Depending on the completion of the road works, the placement of the hydro-seeding may be delayed. No additional costs will be entertained for the Owner delaying these works.

The hydraulic seeding shall be deemed "Completed by the Contractor" when the seed has established in all areas to the satisfaction of the Engineer. Re-seeding and/or other methods required to establish the grass will be given consideration to achieve the end result, and the costs shall be incidental to the works.

**The seeding shall be deemed "Completed by the Contractor" when the seed has established in all areas to the satisfaction of the Engineer. Re-seeding and/or other methods required to establish the grass will be given consideration to achieve the end result, and the costs shall be incidental to the works.**

## **9.0 IMPORTED ENGINEERED FILL TO BACKFILL EXISTING DRAINS**

### General

OPSS.MUNI 206 shall apply and govern except as amended or extended herein.

### Scope of Work

The Contractor will be required to supply Engineered Fill to backfill the existing drains at locations shown in the Contract Drawings. Compaction and boulevard grading shall be considered incidental to this item.

The proposed fill material must be approved by the County's Geotechnical Consultant prior to construction, who shall be provided with the opportunity to attend the location of the source material and take a sample.

The water content of the fill material shall be maintained at or near optimum, during and following placement, to ensure a good bond between subsequent layers of fill material.

Where the fill ties into the existing embankment, the fill shall be keyed into the existing embankment. This will be achieved by benching into the existing embankment as per OPSD 208.010, after topsoil and organics stripping.

The Contractor shall be responsible for erosion control throughout the course of construction, and the cost of this work shall be paid as a separate item.

The Contractor shall note that no frozen fill material will be allowed in the construction of the engineered fill.

It should be noted that engineered fill is not to be used as backfill when under the existing roadway or within 1 m of the shoulder.

## **10.0 LATERAL TILE DRAINS**

Should the Contractor encounter any lateral tiles within the proposed culvert limits not shown on attached drawings, the Contractor shall re-route the outlet tile drain(s) in consultation with the Drainage Superintendent, as required, to accommodate the new culvert. All costs associated with re-routing lateral tile drains (if any) shall be at the Contractor's expense.

Care must be taken in handling plastic drain pipe in cold weather to avoid causing damage.

Plastic drain pipe shall be held in position on planned grade immediately after installation by careful placement of backfill material.

## **11.0 SITE CLEANUP AND RESTORATION**

As part of the work and upon completion, the Contractor shall remove and dispose of, off-site any loose timber, logs, stumps, large stones, rubber tires, cinder blocks or other debris from the drain bottom and from the side slopes. Where the construction works cross a lawn, the Contractor shall take extreme care to avoid damaging the lawn, shrubs and trees encountered. Upon completion of the work, the Contractor shall completely restore the area by the placement and fine grading of topsoil and seeding or sodding the area as specified by the Engineer or Drainage Superintendent.

## **GENERAL SPECIFICATIONS**

### **1.0 AGREEMENT AND GENERAL CONDITIONS**

The part of the Specifications headed "Special Provisions" which is attached hereto forms part of this Specification and is to be read with it. Where there is any difference between the requirements of this General Specification and those of the Special Provisions, the Special Provisions shall govern.

Where the word "Drainage Superintendent" is used in this specification, it shall mean the person or persons appointed by the Council of the Municipality having jurisdiction to superintend the work.

Tenders will be received and contracts awarded only in the form of a lump sum contract for the completion of the whole work or of specified sections thereof. The Tenderer agrees to enter into a formal contract with the Municipality upon acceptance of the tender. The General Conditions of the contract and Form of Agreement shall be those of the Stipulated Price Contract CCDC2-Engineers, 1994 or the most recent revision of this document.

### **2.0 EXAMINATION OF SITE, PLANS AND SPECIFICATIONS**

Each tenderer must visit the site and review the plans and specifications before submitting his/her tender and must satisfy himself/herself as to the extent of the work and local conditions to be met during the construction. Claims made at any time after submission of his/her tender that there was any misunderstanding of the terms and conditions of the contract relating to site conditions, will not be allowed. The Contractor will be at liberty, before bidding to examine any data in the possession of the Municipality or of the Engineer.

The quantities shown or indicated on the drawings or in the report are estimates only and are for the sole purpose of indicating to the tenderers the general magnitude of the work. The tenderer is responsible for checking the quantities for accuracy prior to submitting his/her tender.

### **3.0 MAINTENANCE PERIOD**

The successful Tenderer shall guarantee the work for a period of one (1) year from the date of acceptance thereof from deficiencies that, in the opinion of the Engineer, were caused by faulty workmanship or materials. The successful Tenderer shall, at his/her own expense, make good and repair deficiencies and every part thereof, all to the satisfaction of the Engineer. Should the successful Tenderer for any cause, fail to do so, then the Municipality may do so and employ such other person or persons as the Engineer may deem proper to make such repairs or do such work, and the whole costs, charges and expense so incurred may be deducted from any amount due to the Tenderer or may be collected otherwise by the Municipality from the Tenderer.

### **4.0 GENERAL CO-ORDINATION**

The Contractor shall be responsible for the coordination between the working forces of other organizations and utility companies in connection with this work. The Contractor shall have no cause of action against the Municipality or the Engineer for delays based on the allegation that the site of the work was not made available to him by the Municipality or the Engineer by reason of the acts, omissions, misfeasance or non-feasance of other organizations or utility companies engaged in other work.



## **5.0 RESPONSIBILITY FOR DAMAGES TO UTILITIES**

The Contractor shall note that overhead and underground utilities such as hydro, gas, telephone and water are not necessarily shown on the drawings. It is the Contractor's responsibility to contact utility companies for information regarding utilities, to exercise the necessary care in construction operations and to take other precautions to safeguard the utilities from damage. All work on or adjacent to any utility, pipeline, railway, etc., is to be carried out in accordance with the requirements of the utility, pipeline, railway, or other, as the case may be, and its specifications for such work are to be followed as if they were part of this specification. The Contractor will be liable for any damage to utilities.

## **6.0 CONTRACTOR'S LIABILITY**

The Contractor, his/her agents and all workmen or persons under his/her control including sub-contractors, shall use due care that no person or property is injured and that no rights are infringed in the prosecution of the work. The Contractor shall be solely responsible for all damages, by whomsoever claimable, in respect to any injury to persons or property of whatever description and in respect of any infringement of any right, privilege or easement whatever, occasioned in the carrying on of the work, or by any neglect on the Contractor's part.

The Contractor, shall indemnify and hold harmless the Municipality and the Engineer, their agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of or attributable to the Contractor's performance of the contract.

## **7.0 PROPERTY BARS AND SURVEY MONUMENTS**

The Contractor shall be responsible for marking and protecting all property bars and survey monuments during construction. All missing, disturbed or damaged property bars and survey monuments shall be replaced at the Contractor's expense, by an Ontario Land Surveyor.

## **8.0 MAINTENANCE OF FLOW**

The Contractor shall, at his/her own cost and expense, permanently provide for and maintain the flow of all drains, ditches and water courses that may be encountered during the progress of the work.

## **9.0 ONTARIO PROVINCIAL STANDARDS**

Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD) shall apply and govern at all times unless otherwise amended or extended in these Specifications or on the Drawing. Access to the electronic version of the Ontario Provincial Standards is available online through the MTO website, free of charge to all users. To access the electronic standards on the Web go to <http://www.mto.gov.on.ca/english/transrd/>. Under the title Technical Manuals is a link to the Ontario Provincial Standards. Users require Adobe Acrobat to view all pdf files.

## **10.0 APPROVALS, PERMITS AND NOTICES**

The construction of the works and all operations connected therewith are subject to the approval, inspection, by-laws and regulations of all Municipal, Provincial, Federal and other authorities having jurisdiction in respect to any matters embraced in this Contract. The Contractor shall obtain all approvals and permits and notify the affected authorities when carrying out work in the vicinity of any public utility, power, underground cables, railways, etc.

## **11.0 SUBLETTING**

The Contractor shall keep the work under his/her personal control, and shall not assign, transfer, or sublet any portion without first obtaining the written consent of the Municipality.

## **12.0 TIME OF COMPLETION**

The Contractor shall complete all work on or before the date fixed at the time of tendering. The Contractor will be held liable for any damages or expenses occasioned by his/her failure to complete the work on time and for any expenses of inspection, superintending, re-tendering or re-surveying, due to their neglect or failure to carry out the work in a timely manner.

## **13.0 TRAFFIC CONTROL**

The Contractor will be required to control vehicular and pedestrian traffic along roads at all times and shall, at his/her own expense, provide for placing and maintaining such barricades, signs, flags, lights and flag persons as may be required to ensure public safety. The Contractor will be solely responsible for controlling traffic and shall appoint a representative to maintain the signs and warning lights at night, on weekends and holidays and at all other times that work is not in progress. All traffic control during construction shall be strictly in accordance with the **Occupational Health and Safety Act** and the current version of the **Ontario Traffic Manuals**. Access to the electronic version of the **Ontario Traffic Manual** is available online through the MTO website, free of charge to all users. To access the electronic standards on the Web go to <http://www.mto.gov.on.ca/english/transrd/>, click on "Library Catalogue," under the "Title," enter "Ontario Traffic Manual" as the search. Open the applicable "Manual(s)" by choosing the "Access Key," once open look for the "Attachment," click the pdf file. Users require Adobe Acrobat to view all pdf files.

**Contractors are reminded of the requirements of the Occupational Health and Safety Act pertaining to Traffic Protection Plans for workers and Traffic Control Plan for Public Safety.**

## **14.0 SITE CLEANUP AND RESTORATION**

As part of the work and upon completion, the Contractor shall remove and dispose of, off-site any loose timber, logs, stumps, large stones, rubber tires, cinder blocks or other debris from the drain bottom and from the side slopes. Where the construction works cross a lawn, the Contractor shall take extreme care to avoid damaging the lawn, shrubs and trees encountered. Upon completion of the work, the Contractor shall completely restore the area by the placement and fine grading of topsoil and seeding or sodding the area as specified by the Engineer or Drainage Superintendent.

## **15.0 UTILITY RELOCATION WORKS**

In accordance with Section 26 of the Drainage Act, if utilities are encountered during the installation of the drainage works that conflict with the placement of the new culvert, the operating utility company shall relocate the utility at their own costs. The Contractor however will be responsible to co-ordinate these required relocations (if any) and their co-ordination work shall be considered incidental to the drainage works.

## **16.0 FINAL INSPECTION**

All work shall be carried out to the satisfaction of the Drainage Superintendent for the Municipality, in compliance with the specifications, drawings and the Drainage Act. Upon completion of the project, the work will be inspected by the Engineer and the Drainage Superintendent. Any deficiencies noted during the final inspection shall be immediately rectified by the Contractor.

Final inspection will be made by the Engineer within 20 days after the Drainage Superintendent has received notice in writing from the Contractor that the work is completed, or as soon thereafter as weather conditions permit.

## **17.0 FISHERIES CONCERNS**

Standard practices to be followed to minimize disruption to fish habitat include embedment of the culvert a minimum 10% below grade, constructing the work 'in the dry' and cutting only trees necessary to do the work (no clear-cutting). No in-water work is to occur during the timing window unless otherwise approved by the appropriate authorities.

Jan 21, 2025 - 2:39pm C:\pw working directory\projects 2018\33wlb\dms43194\188340-03-DRN-CON KLONDYKE.dwg

DRAFT

SITE BENCHMARK

PKNAIL IN TOP OF CONCRETE PUMP STATION ON NORTH SIDE OF SHIELDS AVENUE LOCATED OPPOSITE THE NORTHERLY PRODUCTION OF THE EAST WALL OF TECUMSEH VISTA SCHOOL. GEODETIC BENCHMARK ESTABLISHED BY VERHAEGEN STUBBERFIELD HARTLEY BREWER BEZAIRE INC, DECEMBER 2012 4-26338 05

PK NAIL ELEVATION=183.509

NOTE: CONTRACTOR TO VERIFY BENCHMARKS PRIOR TO CONSTRUCTION.

Conditions of Use


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Do not scale dimensions from drawing.

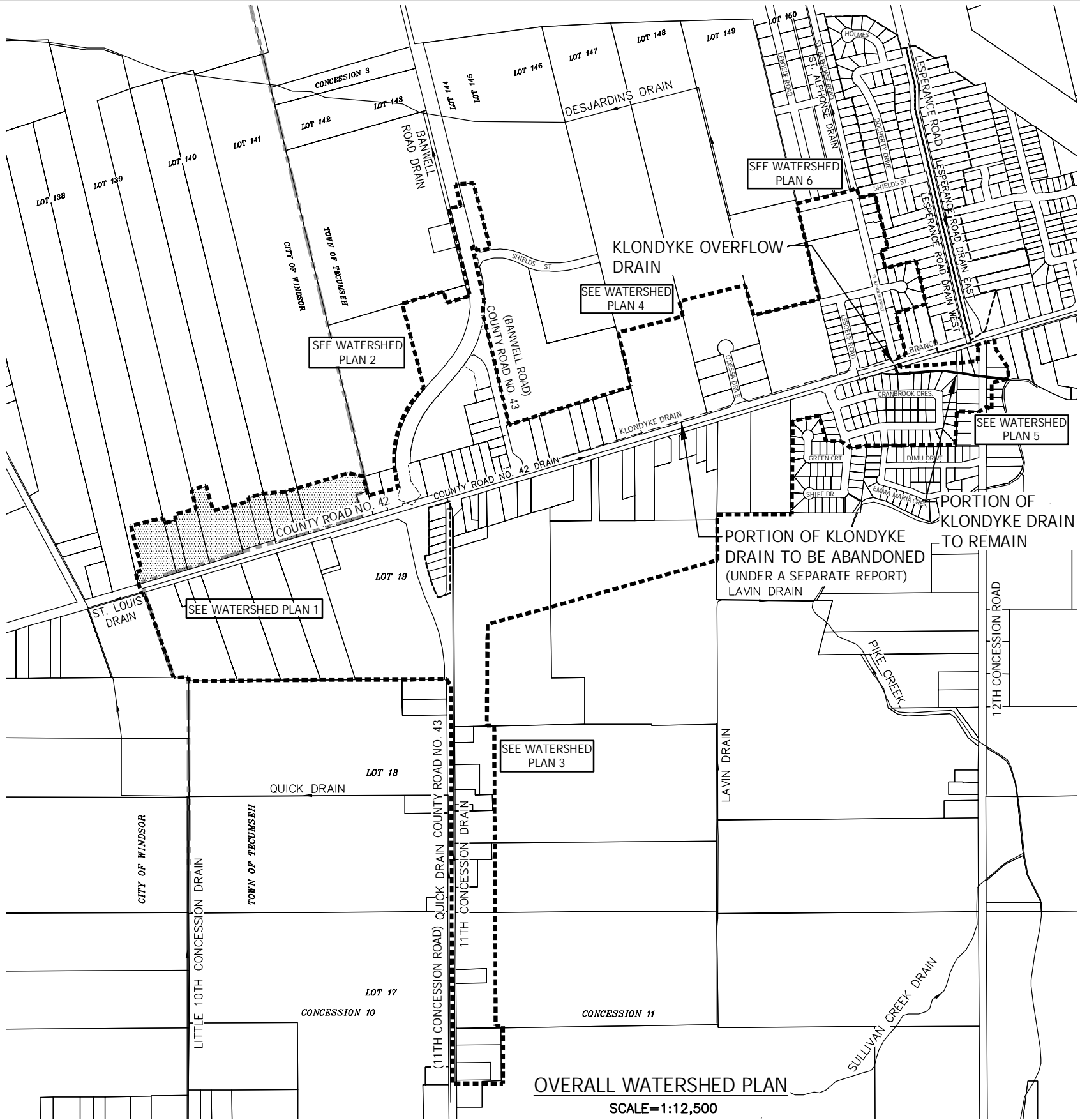
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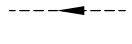

1	CLIENT REVIEW	JAN. 21/25	MDH		
No.	ISSUED FOR	DATE	BY		

DESIGN	MDH	REVIEWED BY	CDP
DRAWN	OEM/WLB	CHECKED BY	TRO
DATE	January 21, 2025		
SCALE	AS SHOWN		

	PROJECT NO.	18-8340
	DRAWING SCALES BASED ON A 11" X 17" SHEET	

'SCHEDULE G'	
Drainage Report for the KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN Town of Tecumseh	
SHEET TITLE	OVERALL WATERSHED PLAN
PAGE NO.	1 of 9



LEGEND	
	MUNICIPAL BOUNDARY
	KLONDYKE DRAIN DRAINAGE AREA
	SUBWATERSHED
	KLONDYKE DRAIN
	OTHER DRAINS
	OTHER DRAINS (TO BE ABANDONED)
	CITY OF WINDSOR URBAN ASSESSMENT

OVERALL WATERSHED PLAN  
SCALE=1:12,500



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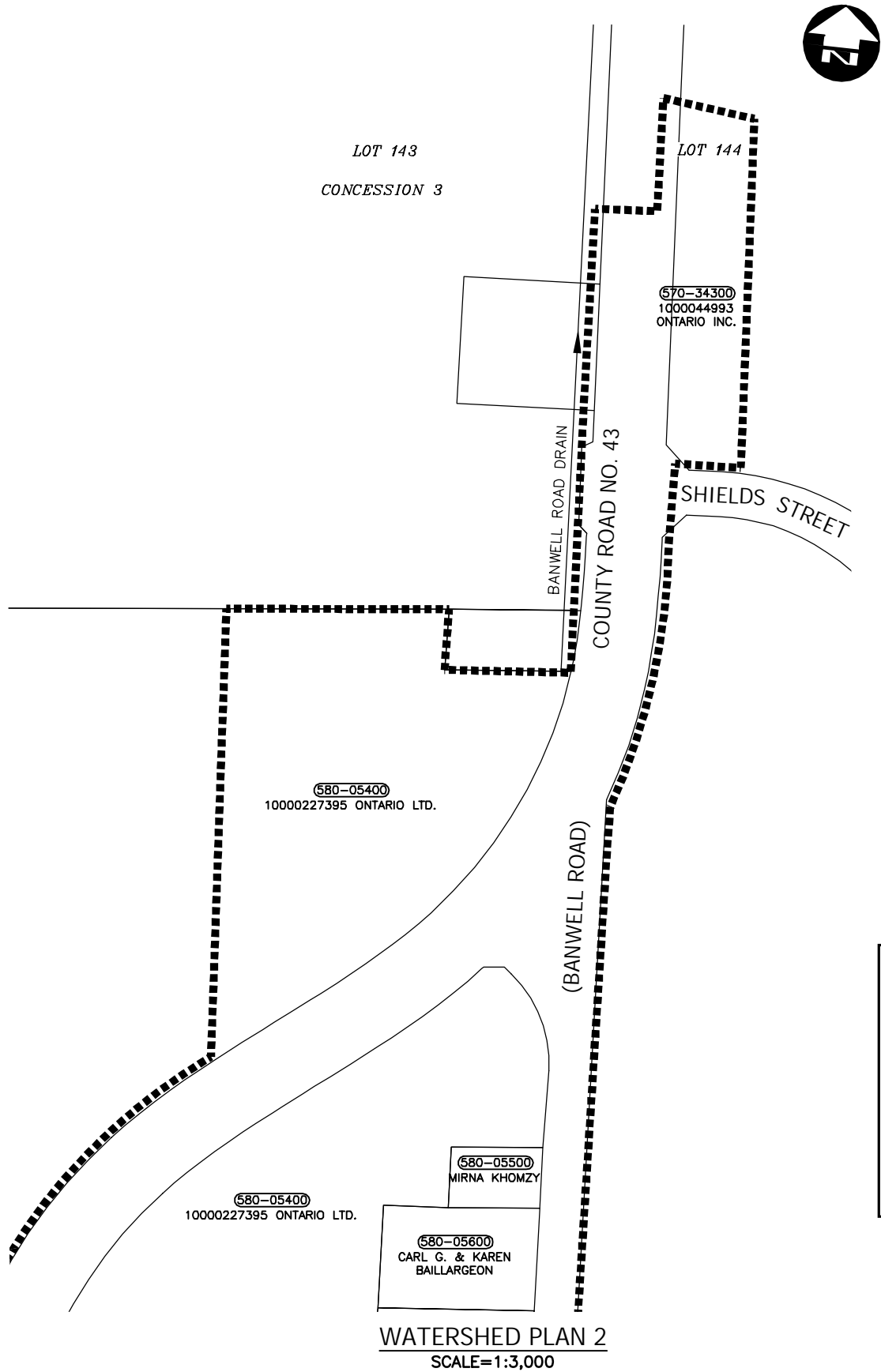
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1	CLIENT REVIEW	JAN. 21/25	MDH		
No.	ISSUED FOR	DATE	BY		

DESIGN	REVIEWED BY
MDH	CDP
DRAWN	CHECKED BY
WLB	TRO
DATE	January 21, 2025
SCALE	AS SHOWN

	PROJECT NO.
	18-8340
	DRAWING SCALES BASED ON A 11" X 17" SHEET

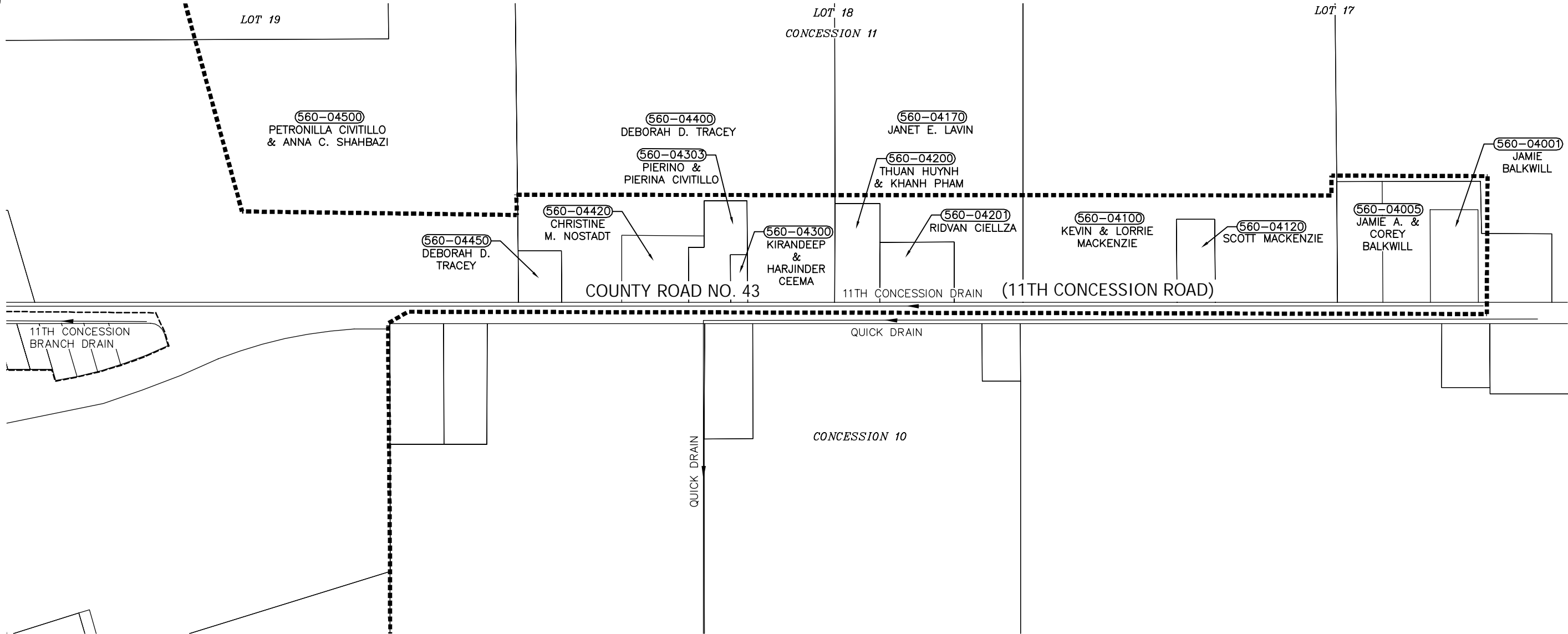
Drainage Report for the KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN Town of Tecumseh	
SHEET TITLE	WATERSHED PLAN 2
PAGE NO.	3 of 9



'SCHEDULE G'



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WATERSHED PLAN 3  
SCALE=1:4,000

LEGEND

MUNICIPAL BOUNDARY

KLONDYKE DRAIN  
DRAINAGE AREA

KLONDYKE DRAIN

OTHER DRAINS

OTHER DRAINS  
(TO BE ABANDONED)

DRAFT

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No.	ISSUED FOR	DATE	BY		

DESIGN	REVIEWED BY
MDH	CDP
DRAWN	CHECKED BY
WLB	TRO
DATE	
January 21, 2025	
SCALE	
AS SHOWN	



DILLON  
CONSULTING

PROJECT NO.  
18-8340

DRAWING SCALES BASED  
ON A 11" X 17" SHEET

'SCHEDULE G'	
Drainage Report for the KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN Town of Tecumseh	
SHEET TITLE	WATERSHED PLAN 3
PAGE NO.	4 of 9





Jan 21, 2025 -- 2:41pm C:\pwworking\director\projects 2018\33\wb\dms43194\188340-03-DRN-CON KLONDYKE.dwg

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LEGEND

- MUNICIPAL BOUNDARY
- KLONDYKE DRAIN DRAINAGE AREA
- KLONDYKE DRAIN
- OTHER DRAINS
- OTHER DRAINS (TO BE ABANDONED)
- LANDS & ROADS NOT USING THE KLONDYKE OVERFLOW DRAIN

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MDH	CDP
DRAWN	CHECKED BY
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DATE	
January 21, 2025	
SCALE	
AS SHOWN	


PROJECT NO.
18-8340
DRAWING SCALES BASED ON A 11" X 17" SHEET

Drainage Report for the  
KLONDYKE DRAIN &  
KLONDYKE OVERFLOW DRAIN  
Town of Tecumseh

SHEET TITLE  
WATERSHED PLAN 5

PAGE NO.  
6 of 9



'SCHEDULE G'

Jan 21, 2025 - 2:41pm C:\pw working directory\projects 2018\33\wb\dms43194\188340-03-DRN-CON KLONDYKE.dwg



LOT 152

LOT 151  
CONCESSION 3

LOT 150

LEGEND

MUNICIPAL BOUNDARY

KLONDYKE DRAIN DRAINAGE AREA

KLONDYKE DRAIN

OTHER DRAINS



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No.	ISSUED FOR	DATE	BY		

DESIGN	REVIEWED BY
MDH	CDP
DRAWN	CHECKED BY
WLB	TRO
DATE	
January 21, 2025	
SCALE	
AS SHOWN	



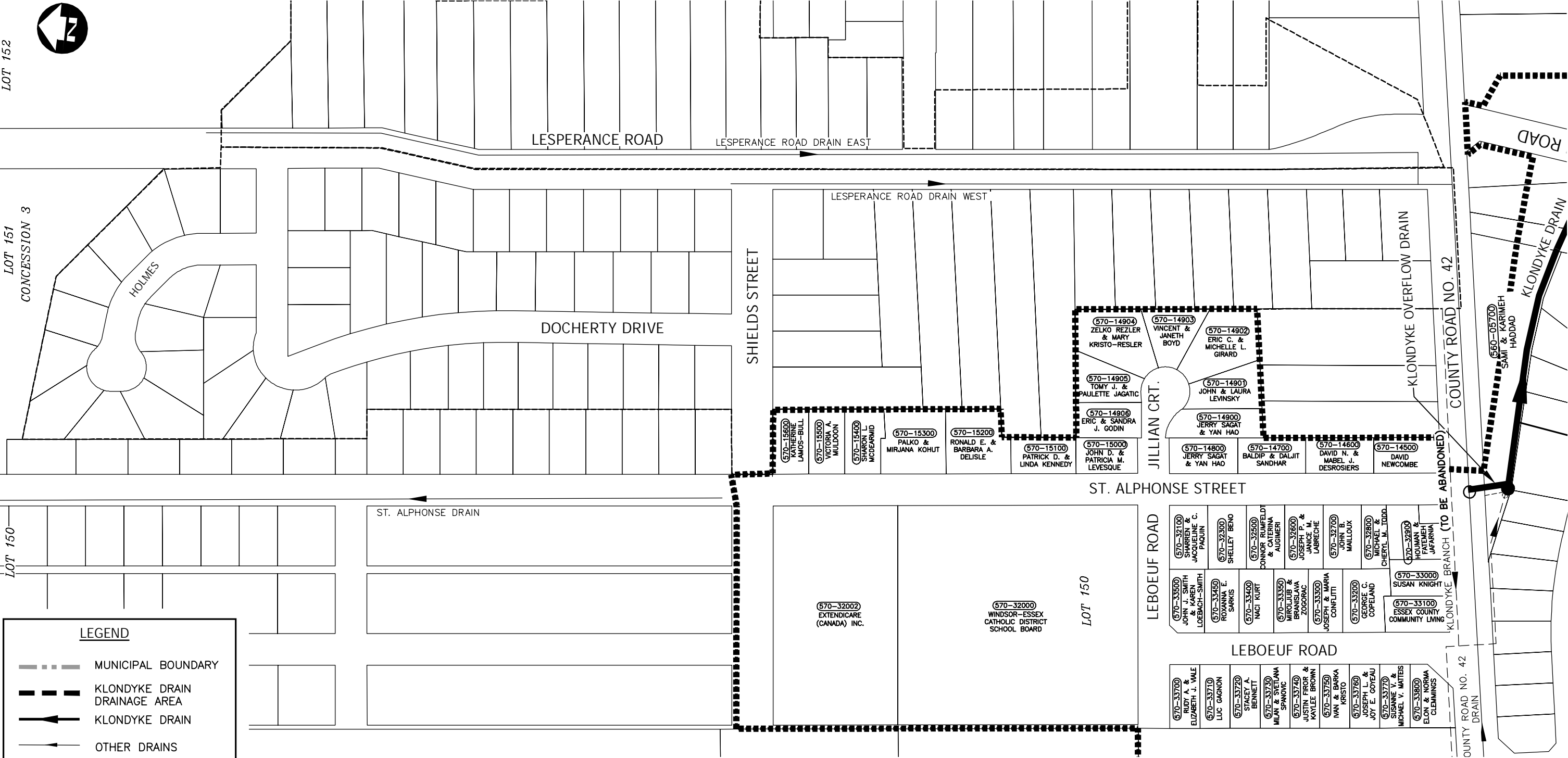
DILLON  
CONSULTING

PROJECT NO.  
18-8340

DRAWING SCALES BASED  
ON A 11" X 17" SHEET

'SCHEDULE G'	
Drainage Report for the KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN Town of Tecumseh	
SHEET TITLE	WATERSHED PLAN 6
PAGE NO.	7 of 9

WATERSHED PLAN 6  
SCALE=1:2,500



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Do not scale dimensions from drawing.

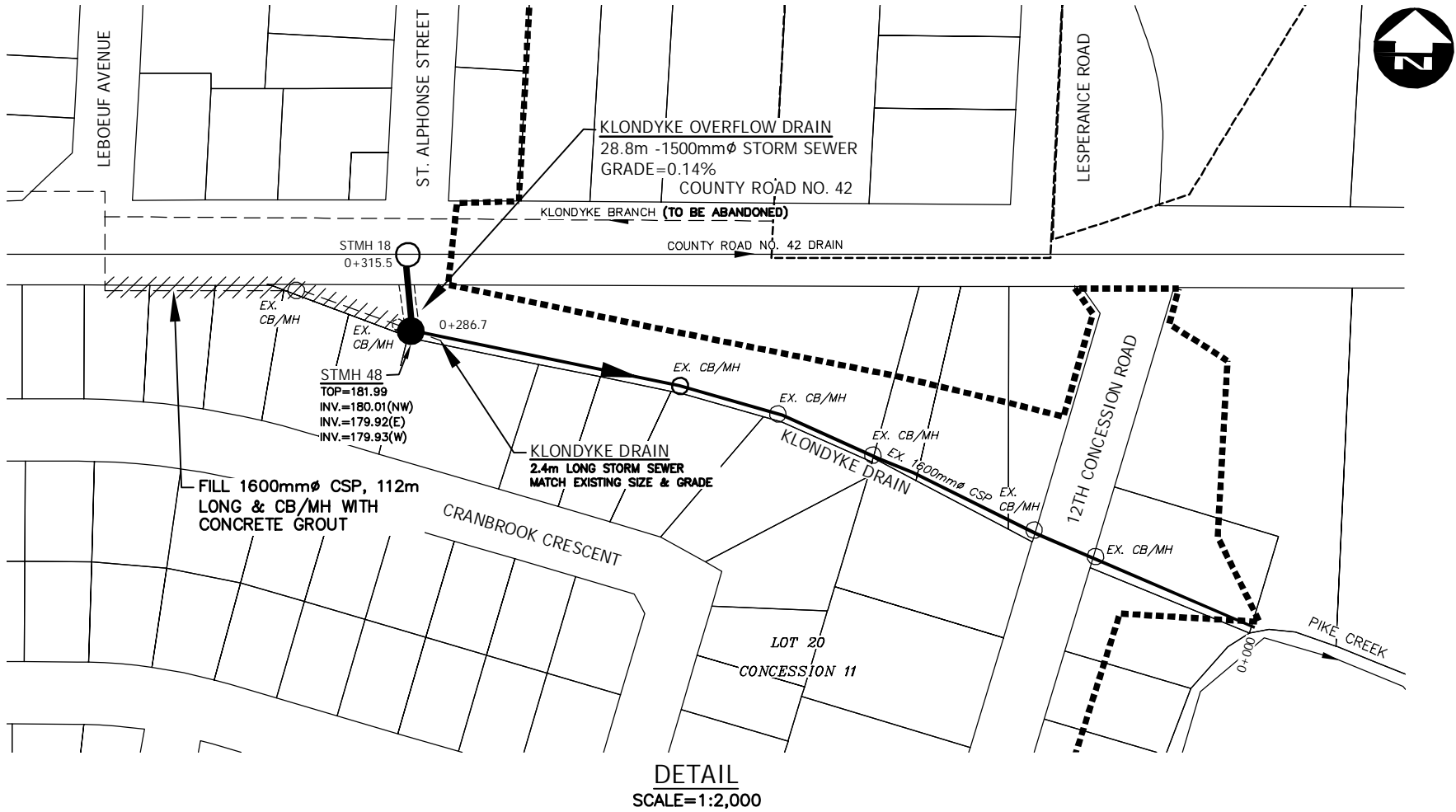
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				DESIGN	REVIEWED BY
				MDH	CDP
				DRAWN	CHECKED BY
				WLB	TRO
				DATE	
				January 21, 2025	
				SCALE	
				AS SHOWN	
1	CLIENT REVIEW	JAN. 21/25	MDH		
No.	ISSUED FOR	DATE	BY		

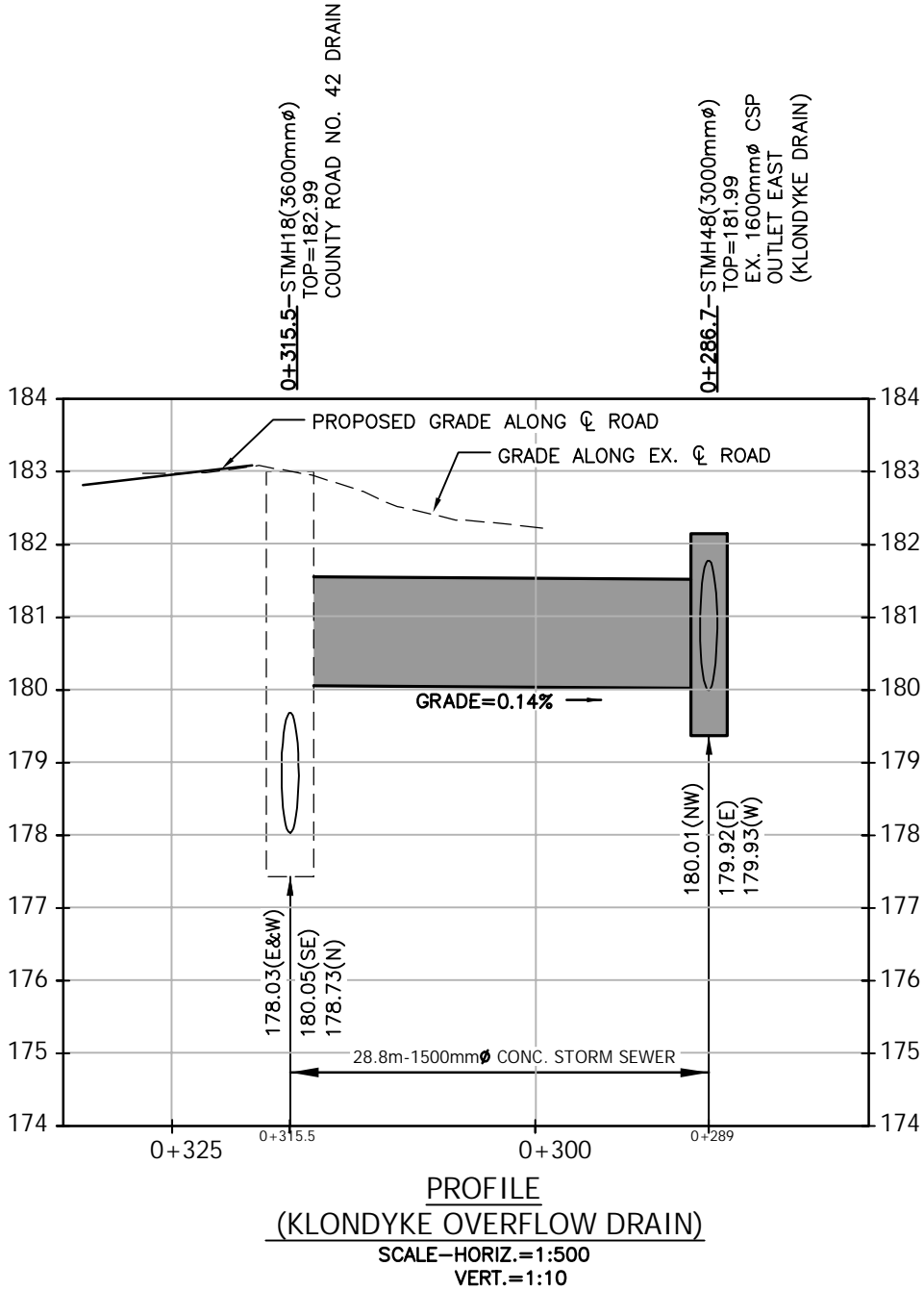


PROJECT NO. 18-8340  
DRAWING SCALES BASED  
ON A 11" X 17" SHEET

'SCHEDULE G'	
Drainage Report for the KLONDYKE DRAIN & KLONDYKE OVERFLOW DRAIN Town of Tecumseh	
SHEET TITLE	DETAIL & PROFILE
PAGE NO.	8 of 9



DETAIL  
SCALE=1:2,000



PROFILE  
(KLONDYKE OVERFLOW DRAIN)  
SCALE-HORIZ.=1:500  
VERT.=1:10



The diagram illustrates the cross-section of a Class 'B' Bedding. It shows a central pipe with diameter 'O.D.' surrounded by bedding layers. The top layer is 'UNDERGROUND BURNING PLASTIC PLATE ON CORRUGATED PIPE COVER OF THE CENTERLINE (TYPICAL)'. Below this is 'COVER MATERIAL GRANULAR "A"'. The bedding is divided into two main sections: 'CLASS "B" BEDDING' (with  $L_c = 1.0$ ) and 'FOUNDATION GRADE'. The 'CLASS "B" BEDDING' section includes a 'SPRINKLE' layer and a 'BEDDING GRANULAR "A" OR CLEAN STONE' layer. Dimensions shown include 'W' (width), 'C' (height of the top section), '12 O.D.' (height of the middle section), and 'd' (height of the bottom section). Arrows point to various components: 'REFR TO SPECIFIC BACKFILL DETAIL', 'UNDERGROUND BURNING PLASTIC PLATE ON CORRUGATED PIPE COVER OF THE CENTERLINE (TYPICAL)', 'COVER MATERIAL GRANULAR "A"', 'LIMIT OF EXCAVATION', 'SPRINKLE', 'BEDDING GRANULAR "A" OR CLEAN STONE', and 'FOUNDATION GRADE'.

## NOTES

1. O.D. = OUTSIDE DIAMETER OF PIPE.
2. IN ROCK TRENCHES, BEDDING DEPTH (d) BELOW WATERMANS AND SEWER PIPES SHALL BE INCREASED TO 300mm
3. FOR PURPOSE OF CONTRACT SPECIFICATIONS BEDDING INCLUDES BEDDING, HAUNCHING AND COVER MATERIAL.
4. GRANULAR "A" BEDDING SHALL NOT CONTAIN RECYCLED ASPHALT.
5. ALL BEDDING MATERIAL MUST BE COMPACTED TO 98% STANDARD PROCTOR DENSITY

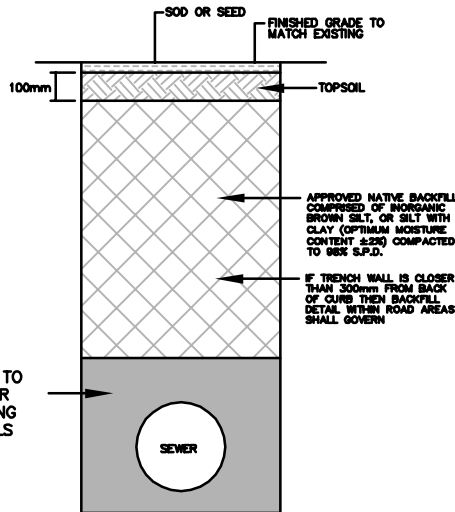
Diagram illustrating the cross-section of a trench for a sewer pipe. The layers from top to bottom are:

- ROAD PAVEMENT
- ROAD BASE
- FULL DEPTH GRANULAR "A" COMPACTED TO 98% S.P.D.
- SEWER (pipe)

Labels with arrows indicate the layers and the sewer pipe. A label "TO EXISTING TRENCH" points to the left side of the trench.

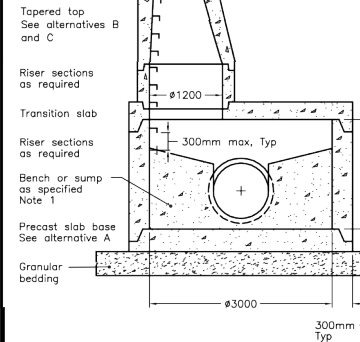
**NOTES:**

1. SLOPING OF TRENCH WALLS SHALL NOT BE PERMITTED.
2. SHEETING OR TRENCH SUPPORT SYSTEM FOR ALL SOILS SHALL CONFORM TO O.H.S.A. REG. 213/91 OR CURRENT.



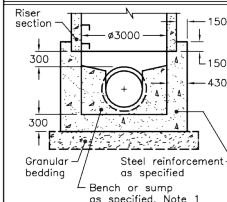
**NOTES:**

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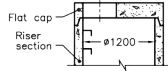


- NOTES:**
- |   |   |
|---|---|
| <p>1 For pump detail, see OPSD 701.010.</p> <p>A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.</p> <p>B Reinforcing concrete components shall be according to OPSD 701.030, 701.031, 701.070, 701.071, 703.014, 703.024, 706.040 and 706.041.</p> <p>C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.</p> | <p>D Pipe support shall be according to OPSD 706.020.</p> <p>E For benching and pipe opening details, see OPSD 701.021.</p> <p>F For adjustment unit and frame installation see OPSD 704.010.</p> <p>G All dimensions are nominal.</p> <p>H All dimensions are in millimetres unless otherwise shown.</p> |
|---|---|

## ALTERNATIVES




A CAST-IN-PLACE BASE

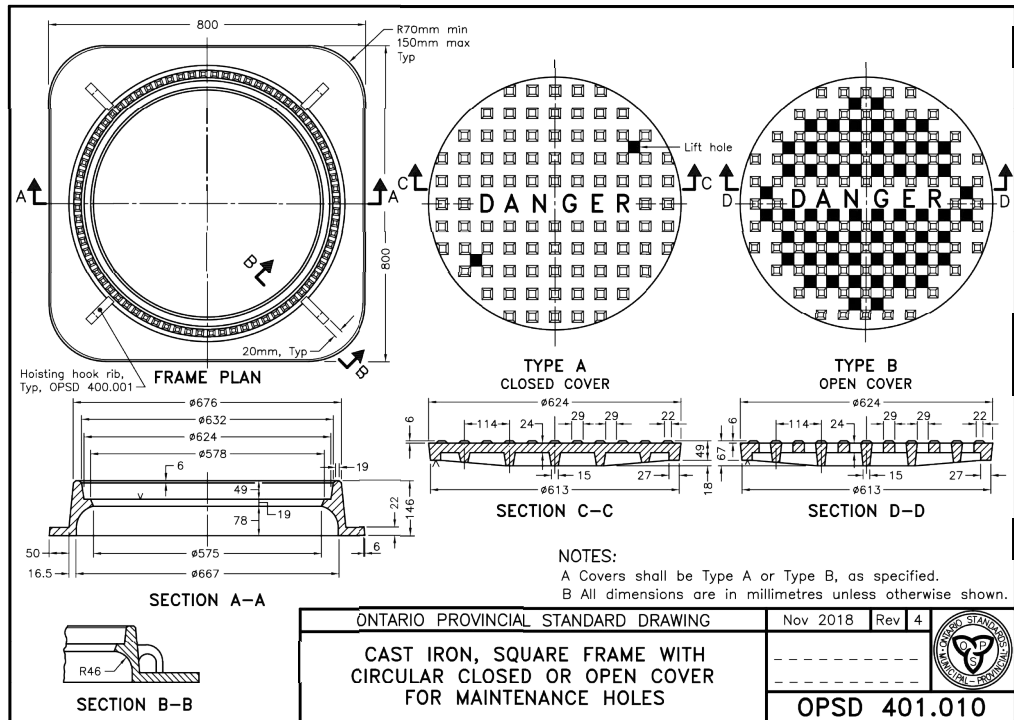


B 1200mm PRECAST FLAT CAP




3000mm PRECAST FLAT CAP

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev	4	
<b>PRECAST CONCRETE MAINTENANCE HOLE</b> 3000mm DIAMETER	_____ _____ _____ <b>OPSD 701.014</b>			



NOTES:  
A Covers shall be Type A or Type B, as specified.  
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2018	Rev 4	
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES				
		OPSD 401.010		

'SCHEDULE G'

Drainage Report for the  
KLONDYKE DRAIN &  
KLONDYKE OVERFLOW DRAIN  
Town of Tecumseh

SHEET TITLE	MISCELLANEOUS DETAILS
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PAGE NO. 9 of 9

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No.	ISSUED FOR	DATE	BY

DESIGN MDH	REVIEWED BY CDP
DRAWN WLB	CHECKED BY TRO
DATE January 21, 2025	
SCALE AS SHOWN	

	
PROJECT NO.	18-8340
DRAWING SCALES BASED ON A 11" X 17" SHEET	

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