

ENGINEERING REPORT

for

CLARK CREEK DRAIN 2021
TOWNSHIP OF HURON-KINLOSS

(Geographic Township of Huron)

County of Bruce

November 12, 2021

File No. 11-090



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DRAWINGS 1 TO 31

MATRIX SOLUTIONS INC. DRAWINGS 01 TO 10

Definitions:

"Act" means The Drainage Act RSO 1990

"CSP" means corrugated steel pipe

"DFO" means Fisheries and Oceans Canada

"Drain" means Clark Creek Drain 2021

"Grant" means grant paid under the Agricultural Drainage Infrastructure Program (ADIP)

"HDPE" means high-density polyethylene

"KSAL" means K. Smart Associates Limited

"Municipality" means Township of Huron-Kinloss

"MECP" means Ministry of Environment, Conservation and Parks

"MNDMNRF" means Ministry of Northern Development, Mines, Natural Resources and Forestry

"OMAFRA" means the Ontario Ministry of Agriculture, Food and Rural Affairs

"SVCA" means Saugeen Valley Conservation Authority

"Tribunal" means Agriculture, Food and Rural Affairs Appeal Tribunal

"LS" means the Lump sum

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1 SUMMARY

This is an engineering report prepared pursuant to Sections 76 and 78 of the Act. The primary purpose of this report is to provide for improvements/repairs of a watercourse that exists west of South Baseline Road in Lots 12 & 13, Lake Range (Township of Huron) in the Township of Huron-Kinloss. The work was initiated as a result of a request by a landowner, Kitt Elmes (Roll No. 006-01400), to the municipality.

On May 18, 2011, the engineer was appointed by the resolution of Council to prepare a report under Section 78 of the Act for an improvement to the Clark Creek Municipal Drain. The request from the landowner was submitted primarily due to concerns with the drainage and loss of land due to erosion and other problems associated with the existing Clark Creek Drain, in Lots 12 & 13, Lake Range (geographic Township of Huron) in the Township of Huron-Kinloss.

The original report was submitted on December 21, 2015. After the report was filed, DFO indicated their concerns with the design, and Municipality Council referred the report back to the engineer on February 1, 2016. The objective of this revised report is to address the concerns of the DFO, the municipality and landowners.

The objective will be achieved by realigning 275m of the channel, constructing two (2) riffle structures consisting of riffle stones, riprap and vegetated riprap, and the construction of a riprapped laneway crossing with 92m of new laneway. The repairs and improvements are being made in accordance with Section 78 of the Act.

The Municipality's Drainage Superintendent has requested that new schedules of future maintenance be prepared for all of the existing Clark Creek Drain, including its branches and for all other municipal drains and branches that exist in the watershed of the Clark Creek Drain. This was done in accordance with Section 76 of the Act.

The work involved with the preparation of this report has followed the normal procedures of the Act, which involved an on-site meeting, review of the site, undertaking of survey and design and the preparation of a report to include plans, profiles, specifications, assessment schedule, cost estimate and miscellaneous paragraphs regarding the description of the work and also the preparation of new future maintenance schedules.

The revised estimated cost of the project is \$527,150 (was \$526,130 in the December 21, 2015 report).

The total length of the proposed work is 1,425.8m of an open channel.

The watershed served is approximately 2,400.2 hectares (5,931 acres).

The estimated costs are to be assessed out in accordance with Schedule A (Schedule of Assessments). Schedule B (Schedule of Assessments for Future Maintenance) is to be used to assess out future maintenance costs as outlined in the "Maintenance" section of this report for all of the Clark Creek Drain, including its branches and for all of the other drains and branches in the watershed of the Clark Creek Drain 2021.

Schedule C (Schedule for Actual Cost Bylaw) indicates the estimated net assessments after deducting possible available grants and allowances, where applicable. This schedule will be of assistance when preparing the final/actual cost Bylaw and grant form application.

Appendix A illustrates the calculations of the assessments outlined in Schedule A. Appendix B illustrates the calculations of the future maintenance assessments outlined in Schedule B.

2 BACKGROUND

A request for an improvement to the Clark Creek Drain, due to concerns with loss of land and erosion and other problems, was made by Kitt Elmes for his property in Lots 12 & 13, Lake Range. On May 18, 2011, the Engineer was appointed by the resolution of Council to prepare a report under Section 78 of the Act for an improvement to the Clark Creek Municipal Drain. The Council resolution was dated May 16, 2011. The on-site meeting with the owners and agencies was conducted on October 3, 2011. The survey and the preliminary design process occurred from November 2011 to July 2015.

On July 22, 2015, a second meeting was held with landowners and agencies to provide landowners with information on the Act process and to discuss the proposed works. Only a handful of landowners attended. Due to this low turnout, an information package containing a letter, drawings and draft assessments schedules showing possible assessments was sent on July 29, 2015, to all landowners in the Clark Creek Drain watershed. In the letter, the engineer asked the landowners to review the assessment schedule and plan and to report any discrepancies or if they wished any maintenance work. No responses from landowners have been received to date.

The Municipality's Drainage Superintendent requested the engineer to prepare new future maintenance schedule for all of the Clark Creek Drain and its branches, and for all of the other municipal drains and branches in the watershed of the Clark Creek Drain. These have been prepared in accordance with Section 76 of the Act.

The design, cost estimate, drawings and specifications were prepared and finalized and the assessments and new future maintenance schedules and the report were prepared and was submitted on December 21, 2015.

On December 31, 2015, a Request for Review and a copy of the report was sent to DFO

After the Consideration of the Report, DFO indicated their concerns with the design, and Council referred the report back to the engineer on February 1, 2016.

On March 17, 2016, a site visit occurred with two DFO staff members, one OMAFRA staff member, a geomorphologist (from Parish Aquatic Services), a Saugeen Valley Conservation Authority staff member and the engineer.

A letter from KSAL was sent to the Mayor and Councillors on May 30, 2016, to update Council on discussions with DFO.

In June 2017, Matrix Solutions Inc. (Parish Aquatic Services) submitted a report, including 10 drawings, to KSAL, showing their recommendations for the stabilization and restoration design improvements to the Clark Creek Drain.

The revised design, cost estimate, drawings, specifications, assessment and future maintenance schedules were finalized, and the revised report was prepared and is herein being submitted.

3 EXISTING DRAINAGE HISTORY

i) Clark Creek Drain

The Clark Drain was original to be constructed in accordance with a report by H. M. Gibson, P. Eng., O.L.S. (W. M. Veitch Associates) dated August 23, 1963 (Bylaw #18-63). It consisted of eight (8) drains (A Drain to H Drain).

- A Drain was 43,695' (13,318m) in length and was all open ditch.
- B Drain was 5,000' (1,524m) in length and consisted of 1,818' (554m) of open ditch and 3,182' (970m) of 8 to 12" (200 to 300mm) tile.
- C Drain was 4,538' (1,383m) of tile.
- D Drain consisted of 3,500' (1,067m) of the open ditch.
- E Drain was 4,734' (1,443m) in length and consisted of 786' (240m) of open ditch and 3,948' (1,203m) of 6 to 10" (150 to 250mm) tile.
- F Drain consisted of 1,452' (443m) of 10 to 12" (250 to 300mm) tile.
- G Drain consisted of 975' (297m) of 8" (200mm) tile.
- H Drain consisted of 500' (152m) of 8" (200mm) tile.

In 1964 the Clark Drain was improved in accordance with a report by H. M. Gibson, P. Eng., O.L.S. (W. M. Veitch Associates) dated January 24, 1964. The improvements consisted of extending A Drain upstream by 15,578' (4,748m) of an open ditch and 1,620' (494m) of 6 to 15" (150 to 475mm) tile, and the construction of J to N Drains.

- J Drain consisted of 2,933' (894m) of 8 to 10" (200 to 250mm) tile.
- K Drain consisted of 2,000' (610m) of an open ditch.

- L Drain consisted of 2,070' (631m) of 8" (200mm) tile.
- M Drain consisted of 2,800' (853m) of 6 to 10" (150 to 250mm) tile.
- N Drain consisted of 1,710' (521m) of 6 to 7" (150 to 175mm) tile.

The Clark Drain was improved in 1968 in accordance with a report by H. M. Gibson, P. Eng., O.L.S.(H. M. Gibson Ltd.) dated September 19, 1968 (Bylaw #48-68) and entitled Clark Drain Improvement – 1968. The improvements consisted of repairs to A Drain downstream of South Baseline Road consisting of constructing several drop structures (weirs) with gabion baskets, closing in of C Drain with 4,412' (1,345m) of 12" to 18" (300 to 450mm) tile, closing in of 800' (244m) of E Drain ditch with 10" (250mm) tile and the construction of two (2) new branch drains: P Drain consisting of 781' (238m) of 12" (300mm) tile, and R Drain consisting of 2,475' (754m) of 6 to 10" (150 to 250mm) tile.

The Clark Drain was again improved, in accordance with a report by H. M. Gibson, P. Eng., O.L.S. (H. M. Gibson Ltd.) dated resubmitted January 27, 1976. The report was originally dated October 21, 1974, but was referred back December 3, 1974, and resubmitted on January 27, 1976 (Bylaw # 13-76). It consisted of a cleanout of several portions of the A Drain upstream of South Baseline Road, a combined total cleanout length of 11,600' (3,536m). Also, repairs were made to the gabion weirs on A Drain downstream of South Baseline Road in Lot 13, Lake Range.

ii) Clark Creek Drain and Other Drains in the Clark Creek Drain Watershed

Refer to Table 28-1 – Drain Maintenance, in the "Maintenance" section of this report for the Clark Creek Drain (A Drain to R Drain) and for all of the other municipal drains and branches in the Clark Creek Drain watershed, including the Prehn Drain, Reavie Drain, Snobelen Drain, Smith Drain, Paquette Drain and one unknown municipal drain. This table is a listing of the Municipal Drains, plans, profiles and specifications to use for maintenance.

4 INITIAL MEETING WITH THE OWNERS

On October 3, 2011, the initial on-site meeting was held at the residence of Kitt Elmes.

Those in attendance for the meeting included:

Kitt Elmes (Roll No. 006-01400)
Elmer Smeltzer (Roll No. 006-04300)
Grant Collins (Twp Drainage Superintendent)
Candace Hamm (SVCA)
John Kuntze, P. Eng., Neal Morris, P. Eng. (KSAL)

Concerns:

Elmer Smeltzer (Roll No. 006-04300)

- 4 weir downstream sheet dam
- Existing sheet pile in good shape
- 2" of water behind piles

Kitt Elmes (Roll No. 006-01400)

- 1963 – gabions have been washed out
- No concrete on gabion baskets
- One sheet pile dam on the property
- Both want more sheet pile weirs
- In 1968, the South Baseline Road bridge was almost undermined
- Ice caused gabion baskets wire to rip
- Loses a little land due to erosion
- Has no crossing
- Bank to bank 100 feet
- Cleanout for debris
- Take a look at low flow crossing
- Soil not cobbly, clay
- Next meeting with two landowners then watershed meeting
- Watershed will change due to tiling

Candace Hamm (SVCA)

- There are dams existing, significant fish can not migrate upstream
- Should control erosion

5 SITE EXAMINATION AND SURVEY

The site is well-developed agricultural land. The site is located on the edge of the high land on an escarpment before dropping to Lake Huron. The ravine is between 2m and 13m deep. The lower part of the ravine is heavily vegetated with large trees. Numerous scraps and bank failures were observed along the ravine. The upper part of the ravine is vegetated with small trees and tall grasses with no bank failures. The existing drain bottom is a series of ponds, riffles and meanders in the drain. A geomorphologist was brought on-site to assess the drain. Their suggestion was to divert the existing drain and create a hardened drop structure.

6 AUTHORITY FOR REPORT

Section 78 of the Act provides for the repair and improvement of an existing drain constructed under the Act through a new engineer's report. A Drain of the Clark Creek Drain was constructed under the Act, and it has been determined from the on-site meeting and site examination that the drain does require repair and improvement. Therefore, this report is properly initiated under Section 78 of the Act.

Section 76 of the Act provides for the preparation of new future maintenance schedules. The request by the Municipality's Drainage Superintendent for the preparation and inclusion of the new future maintenance schedules for all of the Clark Creek Drain and its branches and for all the other municipal drains and branches in the Clark Creek Drain watershed can be done in accordance with Section 76 of the Act. Therefore, the new future maintenance schedules are proper in accordance with Section 76 of the Act.

7 WATERSHEDS

The watershed for the Clark Creek Drain, A Drain to R Drain, was established using the historic watershed limits as shown by the 1963, 1964, 1968 and 1976 reports. The watersheds for the other municipal drains and branches in the Clark Creek Drain watershed area were established using the historic watersheds shown in their respective reports. The land use in the Clark Creek Drain watershed is primarily agricultural except for some small residential lots, bush (forest) areas, and roads.

8 SECOND MEETING

On July 22, 2015, a second (informational) meeting was held at the community centre in Ripley. All of the landowners in the watershed of the Clark Creek Drain were notified. The municipality and agencies etc., were also invited to attend. Only six (6) landowners attended, along with Grant Collins (Municipality Drainage Superintendent) and Neal Morris, P. Eng. and Joel Miller, E.I.T. (KSAL).

Grant made the introduction and discussed the background of the request for improvement of the project.

Neal Morris, P. Eng. then spoke and said he was appointed by the Council because there were erosion concerns at the downstream end of the drain. Some alternatives were considered and the reason the current design was chosen. Neal explained the Act process and the opportunities for appeal. Neal then explained the proposed design and alternatives, which were the best and most cost-effective.

Some questions from the landowners and others and the answers given were as follows:

Q: Will the existing tiles be connected to the realigned channel?

A: Yes

Q: Could bank protection be added downstream of the South Baseline Road bridge on the south bank?

A: Neal said he would consider such.

Q: When will construction occur?

A: 2016

Q: Grant asked if any landowners present needed work done on their lands.

A: There were no responses.

Due to the low turnout for the meeting, Grant suggested sending a follow-up letter after this meeting to all of the landowners in the entire watershed with an updated watershed plan and schedules.

9 INFORMATION PACKAGE

On July 29, 2015, an information package including an updated watershed plan, profile and some details and a schedule of possible assessments was sent to all landowners in the watershed of the Clark Creek Drain. The letter explained the history to date on this project and asked the landowners to review the assessment schedule and drawings and to report any discrepancies or if they wished any maintenance work. No responses from landowners have been received to date.

10 DESIGN CONSIDERATIONS

The primary purpose of the proposed work is to reduce the erosion of the Clark Creek Drain. After consulting with a geomorphologist, it was recommended that the grade and channel be sized to match the stable upstream section of the existing ditch. This channel has the capacity to pass the 25-year return frequency storm. Diverting the existing channel away from the existing house was another design consideration.

The proposed laneway crossing is an at-grade crossing sized for a 2-Year storm so that the laneway will be frequently overtopped in most major storms. The driveway surface is designed to have water over it frequently.

11 OUTLET CONSIDERATIONS

The work recommended in this report will outlet into the existing Clark Creek Drain (1964), which outlets into a natural watercourse, which outlets into Lake Huron.

12 SOILS CONSIDERATIONS

The Bruce County soils map in the proposed work area indicates that the soils adjacent to this drain are silty clay loam soils with imperfect drainage. These soils support a variety of farming activities, including livestock enterprises, general farming and specialized crops.

These soils require artificial drainage to be productive for agricultural purposes.

The soil is mostly stone-free, but occasionally large stones may be encountered during construction. The soils are amenable to the proposed construction.

13 ENVIRONMENTAL CONSIDERATIONS

During the on-site meeting, the SVCA expressed that the erosion should be controlled.

The proposed work would reduce the sediment in the drain. The new ditch will be a two-stage ditch with grassed beds. The thalweg will be free of vegetation and meanders along the bottom of the ditch. DFO, MNDMNRF (now MECP) and the SVCA have been informed of this project. There are no known species at risk in the work area. There are existing

dams/drop structures at each of the road crossings upstream and downstream of the work area.

Meetings/correspondence has occurred with DFO after the Consideration of the Report to address their concerns with the design. Also, Matrix Solutions Inc. was consulted for revisions to the design.

14 PERMITS AND UNDERGROUND UTILITIES

The only permits/applications that are anticipated for this work are those required by the Saugeen Valley Conservation Authority (SVCA)/Department of Fisheries and Oceans (DFO). Other permits/applications will be attained if required.

The locations where utilities can be expected are on the west side of South Baseline Road. Overhead hydro lines exist at this location, and preliminary investigations indicate that underground Bell lines also exist at this location. The contractor will be required to contact and have all public utilities located prior to construction. If any owner is aware of buried private utilities, they should make the engineer aware of such prior to construction.

The contract (tender) documents will also require that the contractor have locates done for all underground utilities.

15 ADDITIONAL WORK ITEMS THAT COULD BE REQUESTED BY OWNERS AT TIME OF CONSTRUCTION

Items of additional work requested by owners at the time of construction would have to be paid directly by the owner to the contractor. These items would not form part of the Drain nor be eligible for the 1/3 grant. Only if the engineer determines that these additional items are necessary for the intended purpose of the Drain could they be part of the Drain and be eligible for the 1/3 grant. The work added would also not form part of the Drain for purposes of future maintenance.

16 PRIVACY OF LANDS

Even though a Municipal Drain is being constructed or exists across the lands of various owners, there still is no right of one owner to enter onto another owner's lands. Only the appropriate Municipal representative (Drainage Superintendent), as part of his maintenance of the drain, or the engineer (or engineer's assistant (i.e. survey or inspection crew), as part of his work with respect to this report, or selected Municipality approved Contractors, for construction of this Drain and future maintenance of the drains, have the right to enter onto privately owned lands of others.

17 CONSTRUCTION SCHEDULING

Construction cannot commence until after the statutory requirements of the Act have been satisfied. If there are no appeals after the Court of Revision, construction could commence, weather permitting, approximately 10 days after the date of the Court of Revision. Appeals under the procedures in the Act could result in a later starting date as no construction can take place until all appeals are settled. No construction can take place until all necessary permits have been obtained through the Saugeen Valley Conservation Authority / DFO. Once construction commences, if the work is proceeded with continuously, it should be completed in approximately 20 to 30 working days.

The engineer may supervise the construction of the drain and may conduct at least two meetings with the contractor and landowners affected by the construction. These meetings would be at the drain work's commencement (pre-construction) and completion (final inspection). The contract for the construction of the drain will be awarded by public tender. Unless construction commencement and completion dates are requested prior to the tender call, the contractor will specify in the tender the starting and completion dates for construction.

18 RECOMMENDED WORK

As a result of the survey, the design, and the discussions with landowners and agencies and the on-site and second meetings, the DFO and a geomorphologist consultant, the following is a summary of the revised work recommended for the Clark Creek Drain 2021:

i) A Drain (2015) Main Drain

0+995 – 2015 survey stations in metres

(-18+00) – 1964 station (in feet)

K. Elmes (Roll No. 006-01400) / E. & M. Smeltzer (Roll No. 006-04300)

-0+895± to - Existing 776.2m (2,546') of the ditch (channel) to remain.

-0+118.8 No work is required at this time. For future maintenance, ditch to have (-18+00 to 7+46±) a 6m wide bottom and 2:1 side slopes. Also, the plan, profile and specifications from January 24, 1964 report by H., M. Gibson, P. Eng. (W. M. Veitch Associates) is to be used.

-0+118.8 to 1+307- See Drawings 5 to 19 and 23 to 31 for work to do now and for future work, when required.

19 DRAWINGS AND SPECIFICATIONS

19.1 Plans

The location of the Clark Creek Drain 2021 and the affected properties are shown on Drawings No. 1 to 4 included with this report. The heavy solid line indicates the location of the proposed drain. The numbers adjacent to the lines are station numbers which indicate, in metres, the distance along the drain. The heavy broken line indicates the approximate

watershed boundaries for the drain. The plan also shows other existing drains, property boundaries, Municipality assessment roll numbers.

Drawings 2 and 3 are plan enlargements showing the existing Municipal drains in the Clark Creek Drain watershed that are the subject of the new future maintenance schedules. Drawings 2 and 3 also show property boundaries, Municipality assessment roll numbers, and hectares affected for each Municipal drain, branch and interval, and hectares affected for each parcel.

Drawing 4 is a plan enlargement that shows the location of the sites/areas of proposed work now and future work.

19.2 Profiles and Other Drawings

The profile for the Clark Creek Drain 2021 is shown in Drawing 5. The profile shows the depth and grade of the proposed new drain. The upper thin solid line represents the existing ground level. The lower heavy solid line (the grade line) indicates the proposed drain grade and also shows a grade for future maintenance.

Drawings 6 to 19 and 22 to 30 contain the details and cross-sections

Drawing 31 contains the specific and general notes of the Construction Notes (Special Provisions).

Following Drawing 31 are Drawings 01 to 10 prepared by Matrix Solutions Inc. dated June 27, 2017, which are also to be referred to and used for the Clark Creek Drain 2021.

19.3 Specifications

This report incorporates the General Conditions, Standard Specifications and Special Provisions listed in the Table of Contents, which govern the construction and maintenance of the Drain.

20 COST ESTIMATE

The cost estimate on this project has four components: the allowances (given to owners having work on their properties), the construction cost estimate (including contingency items), the engineering cost estimate (including an estimate of the construction supervision) and eligible administration costs (which are primarily for financing and also includes the Net H.S.T. (1.76%)). The cost estimate for the proposed drain improvements, etc. is outlined in detail in the following sections:

20.1 Allowances

i) Section 29 of the Act provides for the payment of allowances to landowners who have a portion of a new drain on their property that has not been constructed pursuant to a previous report. This allowance compensates the owners for land used to accommodate the drain

(right-of-way), access routes to the drain, and right-of-way alongside the drain for construction and maintenance purposes. However, since there were allowances provided for in the 1964 report, no new Section 29 allowances are provided.

ii) Section 30 of the Act provides for the payment of allowances to landowners where the lands are used for the construction of the drain. These allowances compensate the owner for damages caused by the construction equipment and for the placement of the drain, including the levelling/placing of excavated material. Allowances were also made for access routes.

The allowance for damages to lands is based on common crop yields and historical crop prices compiled by OMAFRA for the County of Bruce. A fair representative annual crop value has been arrived at using a 3-year composite average for this area's latest available crop statistics (2018-2020 period). The damage allowance rate is a form of compensation to account for both the immediate crop damage plus reduced productivity of the land for several years thereafter, caused by the work. The following calculated allowance rates are based on a complete crop loss during the initial year of construction plus incrementally declining losses over the following 4 year period.

Section 30 (Damages) allowances are provided in accordance with the following rates as shown in the table below.

<u>Type of Crop</u>	<u>Crop Value</u>
Corn/Beans (Cultivated Lands)	\$ 4,970/ha (\$1,990/acre)

Allowances, at the above rate, for a 6m wide access have also been provided to those properties noted on the plan.

iii) In accordance with Section 62(3) of the Act R.S.O. 1990, the allowances shown may be deducted from the final assessment levied. Payment to the owner would only be made when the allowance is greater than the final assessment. The allowances are a fixed amount. Allowances can only be changed if the report is modified prior to adoption of the report by bylaw or in accordance with the paragraphs in this report that deals with changing the scope of work after the bylaw is passed.

The allowances payable to the owners entitled thereto on this project are as follows:

Table 20-1 - Summary of Allowances

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Sec 30 (Damages)
L.R.	Pts 11,12,13	006-01400	K. Elmes	\$ 9,900
L.R.	Pt 13	006-04300	E. & M. Smeltzer	5,500
TOTAL ALLOWANCES:				\$ 15,400

Note: The above lands are in the geographic Township of Huron in the Township of Huron-Kinloss.

20.2 Construction Cost Estimate

The estimated cost for Labour, Equipment and Materials to construct the proposed drain is outlined in detail in the following section. The final cost of drain construction cannot be established until the construction is completed. The contractor is to supply all labour, equipment and materials to construct the following:

Table 20-2 - Construction Cost Estimate (Proposed Work Now)

Item	Stations	Description	Unit	Quantity	Unit Price	Cost
<u>i) Site J</u>						
1	-0+075 to 0+135	210m of channel realignment (4m wide bottom, 2:1 side slopes), including filling in the existing channel, stripping, saving and replacing topsoils and plantings (3,470m ²)	m	210	60	\$ 12,600
2	-0+093 to 0+135	Construct riffles 7 & 8 (14,290m ³ riffle stone)	LS	1	80,000	80,000
3	0+000 to 0+135	135m of vegetated riprap on south side (570m ³)	m ³	570	93	53,000
4	-0+025±	Construct 92m of new laneway including 200m ³ of extra riffle stone	LS	1	20,000	20,000
5	0+000	Cut 5m wide x 0.4m high notch at steel cofferdam (weir)	LS	1	3,000	3,000
		Sub Total:				\$168,600
<u>ii) Site H</u>						
6	0+135 to 0+200	65m of channel realignment (4m wide bottom, 2:1 side slopes), including filling in the existing channel, stripping, saving and replacing topsoils and plantings (650m ²)	m	65	60	\$ 3,900
<u>iii) Site G</u>						
7	0+219 to 0+300	81m of vegetated riprap on south side (305m ³)	m ³	305	93	28,400
8	0+300 to 0+350	51m of vegetated riprap on south side (180m ³)	m ³	180	93	16,800
9	0+219 to 0+350	Topsoil layer and plantings (730m ² south side, 430m ² north side)	m ²	1,160	3	3,500
		Sub Total:				\$ 52,600
<u>iv) Site F</u>						
10	0+359 to 0+389	30m of vegetated riprap on south side (135m ³)	m ³	135	93	12,600
11	0+359 to 0+389	Topsoil layer and plantings (120m ² south side)	m ²	120	3	400
		Sub Total:				\$ 13,000

v) Site E						
12	0+482 to 0+514	32m of vegetated riprap on west side (160m ³)	m ³	160	93	14,900
13	0+482 to 0+514	Topsoil layer and plantings (130m ²)	m ²	130	3	400
Sub Total:						\$ 15,300
vi) Site A						
14	1+280 to 1+307	27m of vegetated riprap on south side (105m ³)	m ³	105	93	9,800
15	1+280 to 1+307	Topsoil layer on south side and plantings (70m ²)	m ²	70	3	300
Sub Total:						\$ 10,100
Sub Total Construction:						\$ 259,600
vii) Contingencies						
16		Lump-sum contingency allowance				\$ 39,000
TOTAL CONSTRUCTION COST ESTIMATE:						\$298,600

20.3 Engineering Cost Estimate

i) Report preparation

Report Preparation costs include work such as gathering background information, preparing for and attending on-site meetings, field survey using G.P.S. including fly levels and cross-sections, preparing profiles and details, drain design, conducting discussions with affected landowners and agencies, attending to alternatives, geomorphology specialist, reviewing watersheds, preparing for and attending a second meeting, preparing cost estimates and assessment schedules, prepare future maintenance schedules, specifications, report writing and typing and complete drawings.

- Report Preparation (Original Report)	\$ 101,700
- Report Preparation of Revised Report	42,100
- Matrix Solutions Inc. (Parish Geomorphoc Ltd.) (further costs since 2018)	3,200
- Preparation of new future maintenance schedules	5,000
- Preparing for and attending Consideration of Original Report meeting	1,000
- Preparing for and attending Consideration of Revised Report meeting	1,000
- ** Preparing for and attending Court of Revision meeting	<u>1,000</u>

TOTAL REPORT PREPARATION: \$ 155,000

Report preparation costs are usually not altered at the conclusion of a project unless the report is referred back or the report is appealed to the Drainage Tribunal, which would be additional costs. The amount shown for meetings is an estimate. Final cost will vary as per actual time for meetings. Cost if for a maximum of 4 appeals, additional appeals will increase this cost.

ii) Construction Supervision

For work to prepare tender documents, review contract award, attend pre-construction meeting, construction inspection, payments, attend final inspection meeting, perform final inspection, post construction follow-up, and prepare or assist in preparing grant applications

Total Construction Supervision **\$ 30,000 ***

The estimate shown for Construction Supervision is based on past experience and assumes good construction conditions and a Contractor who completes the construction in an efficient manner. The final (actual) cost for Construction Supervision will vary as per the actual time spent during the construction phase.

TOTAL ENGINEERING COST ESTIMATE: **\$ 185,000**

20.4 Eligible Administration Costs (Section 73) Estimate

Section 73 of the Act indicates that specific administration costs incurred by the municipality in carrying out the Act process are eligible as a cost of the drain. Section 73(1) lists the following eligible costs: *cost of any application, reference or appeal and the cost of temporary financing*. Sections 73(2) and 73(3) indicate that costs of elected and staff personnel are not eligible.

This administration costs estimate may not be adequate to cover any legal or engineering costs incurred by, or assessed to, the municipality should the project be appealed beyond the Court of Revision though such costs will form part of the final drain cost.

The OMAFRA Agricultural Drainage Infrastructure Program (ADIP) policies (applicable where the provincial grant is made) indicates that municipal costs for photocopying and mailing required to carry out the required procedures under the Act can also be included as eligible administrative costs on a drain.

The Harmonized Sales Tax (H.S.T.) will apply to most costs on this project (allowances are excluded). However, the municipality is eligible for a refund of a proportion of the H.S.T. paid. Therefore, the cost estimate in this report does include a dollar allowance equivalent to a net tax (Net H.S.T.) in the amount of 1.76%. The Net H.S.T. has been rounded off to the nearest \$5. It is also shown as an eligible administration cost.

The Eligible Administration Cost (Section 73) estimate thus includes an allowance for the following items:

SVCA/DFO submission	\$ 500
Printing of Original Reports	1,100
Printing of Revised Reports	500
Printing of Tender Documents	200
Interest Estimate	10,500
Permits and Applications Allowance	100
Unforeseen	6,500
Net HST Estimate (1.76%)	<u>8,850</u>

TOTAL ELIGIBLE ADMINISTRATION COSTS ESTIMATE: **\$ 28,150**

20.5 Estimated Cost Summary

Allowances	\$ 15,400
Construction Cost	298,600
Engineering Cost	185,000
Construction Supervision and Eligible Administration Costs	<u>28,150</u>
TOTAL ESTIMATED COST:	\$ 527,150

21 FUTURE WORK

The following table shows the work at the other sites (areas), that could be done in the future as maintenance work, when required. The final costs of each, when done, would be billed out as maintenance and using Interval 1 in Schedule B for the Clark Creek Drain 2021.

When/if any of these future work sites have been constructed as required, they will become part of the Clark Creek Drain 2021 for maintenance purposes.

Table 21-1 - Construction Cost Estimate (Future Work at Sites)

Stations	Description	Unit	Quantity	Unit Price	Cost
Site H					
0+135 to 0+200	Construct riffle 6 (780m ³ of riffle stone)	LS	1	4,500	\$ 4,500
0+135 to 0+200	650m ² topsoil layer and plantings	m ²	650	3	2,000
Sub Total:					\$ 6,500
Site F					
0+372 to 0+473	74m of channel realignment (4m wide bottom , 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils	m	74	60	\$ 4,500
0+372 to 0+473	Construct riffle 5 (780m ³ of riffle stone)	LS	1	4,500	4,500
0+372 to 0+473	740m ² topsoil layer and plantings	m ²	740	3	2,300
Sub Total:					\$ 11,300
Site D					
0+567.5 to 0+652	88m of channel realignment (4m wide bottom , 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils	m	88	60	\$ 5,300
0+567.5 to 0+652	Construct riffles 4 & 4A (560m ³ of riffle stone) (290m ³ riffle 4, 270m ³ riffle 4A)	LS	1	6,000	6,000
0+567.5 to	290m ² topsoil layer and	m ²	290	3	9,000

Stations	Description	Unit	Quantity	Unit Price	Cost
0+652	plantings				
	Sub Total:				\$ 12,200
Site C					
0+793± to 0+880±	53m of channel realignment (4m wide bottom , 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils	m	53	60	\$ 3,200
0+793± to 0+880±	Construct riffle 3 (585m ³ of riffle stone)	LS	1	6,000	6,000
0+793± to 0+880±	460m ² topsoil layer and plantings	m ²	460	3	1,400
0+793± to 0+880±	Extend 2 existing tile outlets as necessary, construct swales and place 60m ² of riprap (30m ² at each location)	LS	1	5,000	5,000
	Sub Total:				\$ 15,600
Site B					
0+880± to 0+975	94m of channel realignment (4m wide bottom , 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils	m	94	60	\$ 5,700
0+880± to 0+975	Construct riffles 1 & 2 (1800m ³ of riffle stone) (820m ³ riffle 1, 940m ³ ± riffle 2 and 40m ³ between riffles)	LS	1	10,000	10,000
0+880± to 0+975	670m ² topsoil layer and plantings	m ²	670	3	2,100
	Sub Total:				\$ 17,800
TOTAL CONSTRUCTION COST ESTIMATE – FUTURE WORK:					\$63,400

22 ASSESSMENTS

The Act requires that the total estimated cost be assessed to the affected lands and roads under the categories of Benefit (Section 22), Outlet Liability (Section 23), Injuring Liability (Section 23), Special Benefit (Section 24) and Special Assessment (Section 26). On this project assessments for Benefit and Outlet Liability are involved.

The method of calculating the assessments in Schedule A for this drain is illustrated in Appendix A which has been included with this report. Appendix A divides the drain into intervals. The estimated cost for each of these intervals is then determined. The first step in the assessment calculation is to apply Benefit and Special Assessments, if applicable, to the affected lands and roads in each of the drain intervals. After deducting the total Benefit and Special Assessments from the interval cost the balance of the cost is then assessed as Outlet Liability on a per hectare basis to all lands and roads in the watershed. As noted, the

hectares affected are adjusted prior to calculating the outlet liability. The basis for this adjustment is 1 hectare of cleared agricultural land contributing both surface and subsurface water to the drain. Areas which generate greater runoff, such as gravel and paved roads, are increased by a factor of 1.5 (gravel road) to 2.0 (paved road). Areas which generate lesser runoff such as woodlots, areas that have been tiled elsewhere, and/or low areas, are decreased by a factor of 0.5.

There is a minimum assessment in Schedule A of \$40.

This same method and adjustments have been used in Appendix B, which is used to calculate the assessments in Schedule B (Schedule of Assessments for Future Maintenance).

Summary of Benefits (Section 22)

	Roll No. 006-043	Roll No. 006-014	Total
Erosion Protection	\$ 25,000	\$ 30,000	\$ 55,000
House Protection	0	10,000	10,000
Totals	\$ 25,000	\$ 40,000	\$ 65,000

Special Benefit Assessments (Section 24)

There are no assessments for Special Benefit on this project at this time. However, Special Benefits could be incurred as follows:

- If a landowner elects to haul spoil off site (where not so indicated by this report), the increased cost of hauling spoil off-site above the costs of levelling spoil will be assessed to abutting landowners and it is not eligible for the grant.
- If a landowner elects to have new fencing or a different type of fencing other than that shown in this report, the landowner will be assessed the increased cost for the different fence or new fencing and it is not eligible for the grant.

Assessment Summary

The assessments against the affected lands are summarized in Schedule A. Schedule B (Schedule of Assessments for Future Maintenance) is the schedule to use for future maintenance and repairs of all of the municipal drains and branches in the Clark Creek Drain 2021 watershed. Schedule C (Schedule for Actual Cost Bylaw) illustrates the net assessments to each owner after possible grants and allowances are deducted. Schedule A will be used to assess the final cost of the drain which may vary depending on final construction, engineering and administration costs. Net assessments in Schedule C may vary depending on the availability of grants. In Schedules A to C, each parcel of land assessed has been identified by the assessment roll applicable for the Municipality at the time of the preparation of this report. The size of each parcel was established using the assessment roll information. For convenience only, each parcel is further identified by the owners name from the last revised assessment roll. Final assessments are not levied until

after the work is certified complete by the engineer. The final assessments will thus be to the owner of the identified parcel at the time the final cost is levied. Most of the assessed properties (lands) are considered agricultural and are taxed as Farm properties and are eligible for the Farm Property Class Tax Rate (F.P.C.T.R.) and thus are eligible for the provincial (OMAFRA) one-third (33-1/3%) grant and as per OMAFRA's ADIP Policies. This grant may also be available for maintenance assessments. The other properties are considered to be non-agricultural.

23 ADJUSTMENTS IN ASSESSMENTS FOR POOR SOIL CONDITIONS

If any special work is required on the Drain due to soil instability, the increased costs are to be assessed as non-proratable Special Benefits to the owners in the Drain and proportional to the total gross assessments to all owners on the Drain as per Schedule A.

24 ALIGNMENT OF DRAINS

All drains shall be constructed generally to the alignment as noted on the plans and as dictated by the Specific Notes in the Construction Notes (Special Provisions). Existing fences, near boundaries and between properties, shall be deemed to be in the proper location of the boundary unless otherwise noted by the affected landowners. In the absence of fences, or other properly marked and located legal boundaries, the drains shall be located more or less on the lands as noted in the drawings without the benefit of a legal survey to confirm property lines.

Construction shall follow the location as specified on the drawings, wherever practicable. The locations shown on the drawings roughly follow the locations of the existing drains.

Should the owner require a more precise location for the drains in relation to their property line or if there is a dispute about the location of the line, we recommend that they establish their legal property boundaries in advance of construction or maintenance and/or advise the Drainage Superintendent and/or engineer prior to construction or maintenance, of the concern re the property line location.

25 PROVISIONS OF SECTION 61(3) OF THE ACT

Pursuant to Section 61(3), a Municipality may pay out of General Funds any assessment equal to or less than \$50. The municipality should send a copy of the notices however regarding the meetings to consider the report and Court of Revision to any owner affected by Section 61(3).

26 BUFFER STRIP

In order to facilitate maintenance, provide for nutrient management and decrease the amount of soil erosion and bank degradation, it is recommended that a narrow buffer strip of 3m (10') be maintained on both sides of any open drain and 10m long by 1m width strip

upstream of any protected tributaries to the Main Drain. Buffer strips should not be cultivated but could be used for lawn, pasture, access or forage crops.

27 WORKING CORRIDOR AND RIGHT OF WAY

The contractor shall be allowed to operate his equipment within a working corridor as defined in Sections 400.4 of the attached Standard Specifications for Construction of Drains. Each landowner is required to provide the Contractor and the Municipality with reasonable access to the drain on his property for both construction and maintenance.

28 MAINTENANCE

After completion, the Clark Creek Drain 2021 shall be maintained by the Township of Huron-Kinloss with costs of all maintenance to be assessed to the lands and roads prorata with the assessments in Schedule B (Schedule of Assessments for Future Maintenance). This schedule is to be used for all of the Clark Creek Drain (including all of its branches) and also for all of the other municipal drains and branches in the Clark Creek Drain 2021 watershed, as per a request from the Municipality.

Future Riffle structures and naturalized channel maintenance

Due to this channel's high erosion potential, a management plan is required to maintain the drain in a sustainable condition. To this end, the following monitoring and implementation of channel stabilization features shall be done.

- (a) A series of cross-sections which is labelled as "Transect," were surveyed along the drain. Rebar pins are located at the top of the bank at each transect. The transects are to be surveyed once a year. The survey should determine the width of the channel and the lowest point in the channel between the two rebar pins.
- (b) The lowest point and channel width should be compared to the information in Table 28-1 Transect Size Baseline.
 - 1) If the channel is larger than 3m or the lowest point is deeper than 0.45m. The downstream nearest riffle shall be constructed at the design grade in this report.
 - a. The construction cost of the riffle shall be assessed as per the Riffle interval in Schedule B.
 - 2) If not, no action is required at this time.

Table 28-1 Transect Size Baseline

Transect (ID)	Lowest point of ditch at each Transect (m)	Width of ditch from top of bank to top of bank (m)
2-3	191.4	32
4-5	191.6	26
6-7	191.5	35

8-9	191.7	22
10-11	192.4	15
12-13	192.4	32
14-15	192.8	32
16-17	193.4	24
18-19	193.8	21
20-21	194	19
22-23	194.4	18
24-25	195.2	21

The table below shows the plans, profiles and specifications that should be used for maintenance for the municipal drains/branches, etc. in the Clark Creek Drain 2021 watershed:

Table 28-2 - Drain Maintenance

Drain/Branch/ Interval	2015 Station in Metres	Sta. in Feet (Year)	Municipal Drain Plans, Profiles and Specifications to use for Maintenance
<u>i) CLARK CREEK DRAIN</u>			
<u>Main Drain (A Drain)</u>			
Int. 1	-0+895 to -0+118.8	-18+00 to 7+46± (1964)	January 24, 1964, H. M. Gibson, P. Eng. (W. M. Veitch Associates)
Int. 1	-0+118.8 to 1+321=A1+661 ah'd	7+46± to 54+69 (1964)	This 2015 report drawings
Lower Pt Int. 2	1+321=A1+661 ah'd to A2+339	54+69 to 76+73 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
Upper Pt Int. 2 to Lower Pt Int. 12	A2+339 to A17+158	76+73 to 562+92 (1976)	Resubmitted January 27, 1976, H.M. Gibson, P.Eng. (H. M. Gibson Ltd.)
Upper Pt Int. 12	A17+158 to A17+652	574+73 to 590+93 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch B (B Drain)</u>	0+000 to 1+524	0+00 to 50+00 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch C (C Drain)</u>	0+000 to 1+383	0+00 to 45+38 (1964 & 1968)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates) and also September 19, 1968 (H. M. Gibson)
<u>Branch D (D Drain)</u>	0+000 to 1+067	0+00 to 35+00 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch E (E Drain)</u>			

Drain/Branch/ Interval	2015 Station in Metres	Sta. in Feet (Year)	Municipal Drain Plans, Profiles and Specifications to use for Maintenance
Int. 1 & 2	0+000 to 1+443	0+00 to 47+34 (1964) & 1968)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates) and also September 19, 1968 (H. M. Gibson)
<u>Branch F (F Drain)</u>	0+000 to 0+443	0+00 to 14+52 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch G (G Drain)</u>	0+000 to 0+297	0+00 to 9+75 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch H (H Drain)</u>	0+000 to 0+152	0+00 to 5+00 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch J (J Drain)</u>	0+000 to 0+894	0+00 to 29+33 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch K (K Drain)</u>	0+000 to 0+610	0+00 to 20+00 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch L (L Drain)</u>	0+000 to 0+631	0+00 to 20+70 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch M (M Drain)</u>	0+000 to 0+853	0+00 to 28+00 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch N (N Drain)</u>	0+000 to 0+521	0+00 to 17+10 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>Branch P (P Drain)</u>	0+000 to 0+238	0+00 to 7+81 (1968)	September 19, 1968, H. M. Gibson, P.Eng. (H. M. Gibson Ltd.)
<u>Branch R (R Drain)</u>	0+000 to 0+754	0+00 to 24+75 (1968)	September 19, 1968, H. M. Gibson, P.Eng. (H. M. Gibson Ltd.)
<u>ii) PREHN DRAIN</u>			
	081 to 714	--	November 30, 1995, John Kuntze, P. Eng. (K. Smart Associates Limited)
<u>iii) REAVIE DRAIN</u>			
<u>Main Drain</u>			
Int. 1 to 4	0+000 to 4+410	0+00 to 144+70± (1960)	November 23, 1960, S. W. Archibald, P. Eng. (Archibald, Gray & McKay)
<u>A Branch</u>	0+000 to 0+610	0+00 to 20+00± (1931 & 1960)	Bylaw 803 of 1931 S. W. Archibald, P. Eng. And November 23, 1960, S. W. Archibald, P. Eng. (Archibald, Gray & McKay)
<u>B Branch</u>	0+000 to 0+427	0+00 to 14+00 (1960)	Nov. 23, 1960 S. W. Archibald, P. Eng. (Archibald, Gray & McKay)
<u>C Branch</u>	0+000 to 0+292	0+00 to 9+59 (1960)	Nov. 23, 1960, S. W. Archibald, P. Eng. (Archibald, Gray & McKay)
<u>iv) SNOBELEN DRAIN</u>			
	0+000 to 1+989±	0+00 to 65+27 (1964)	January 24, 1964, H.M. Gibson, P.Eng. (W. M. Veitch Associates)
<u>v) SMITH DRAIN</u>			
<u>Main Drain</u>			
	0+000 to 1+679	0+00 to 55+10 (1975)	May 26, 1975, H. M. Gibson, P. Eng. (H. M. Gibson Ltd.)
<u>Branch A</u>	1+679 to 1+767	55+10 to 58+00 (1975)	May 26, 1975, H. M. Gibson, P. Eng. (H. M. Gibson Ltd.)
<u>vi) PAQUETTE DRAIN</u>			
	0+000 to 2+621±	0+00 to 86+00 (1972)	July 31, 1972, H. M. Gibson, P.Eng. (H. M. Gibson Ltd.)

The method of calculating the assessments in Schedule B is illustrated in Appendix B which has been included with this report. Appendix B divides the drains into intervals. The same method and adjustments to hectares, as described for Appendix A has been used in Appendix B.

To use Schedule B, the drain and interval in which maintenance is to be undertaken must be identified. The percentages shown will be used to establish the amount that each landowner and road will bear for maintenance costs in that interval. If repair or maintenance is done in 2 or more intervals, the assessments shown are totalled. These amounts are derived from Appendix B. A minimum percentage assessment is applied to all future small lots in the watershed of 0.01% per interval affected.

It is noted that the dollar amounts in Schedule B are not amounts to be paid. They were used to establish the percentages that landowners and roads would pay of any future maintenance costs.

The cost of replacing and/or maintaining a road culvert/crossing, on any drain/branch in the watershed of the Clark Creek Drain 2021, is to be assessed fully to the road authority upon whose right-of-way it exists.

The following notes apply for future maintenance:

- (a) Residential culvert may be replaced up to 9m in length with the cost being split with 50.0% to the abutting property and 50.0% to the upstream lands. The cost of additional length over 9m is to be solely assessed (paid) by the abutting property and is not eligible for grant.
- (b) Industrial, commercial or farmland culverts may be replaced up to 12m in length with the cost being split with 50.0% to the abutting property and 50.0% to the upstream lands. The cost of additional length over 12m is to be solely assessed (paid) by the abutting property and is not eligible for grant. If a residential home is located on industrial, commercial or farmland property a second access culvert may be installed with the cost being split with 50.0% to the abutting property and 50.0% to the upstream lands.
- (c) Culverts installed to service public utilities shall be assessed 50.0% to the utility and 50.0% to the road authority.

All parties affected by the Clark Creek Drain 2021 are encouraged to periodically inspect the drain once constructed and report any visible or suspected problems to the Township of Huron-Kinloss. If any areas require corrective work as the result of construction deficiencies, they will be attended to as part of the contract.

Each owner must provide an access route to the drains/branches for access by the Municipality to undertake necessary repair or maintenance. As well, a right-of-way along the drain route equal to the working area described in the drawings, and/or in the specifications of the various drain reports, is also to be available for future maintenance.

Any landowner making a new connection into the Drain either tile, open ditch or outlet, shall request permission from the Drainage Superintendent before making the connection, to

connect to such drain. If the Drainage Superintendent is not notified, this connection may be deemed to be an obstruction under Sections 81 & 82 of the Act and may be removed at the owner's expense.

The discharge of anything but clean, unpolluted water into a drain is regulated by other provincial legislation. Any non-compliance will be reported to the appropriate environmental agency.

29 BYLAWS

This report, including assessment and future maintenance schedules, drawings and specifications, when adopted by bylaw, in accordance with the Act, will provide the basis for construction and maintenance of the Clark Creek Drain 2021 and for assessing out future maintenance costs on all of its branches and for the other municipal drains and branches in the watershed of the Clark Creek Drain 2021.

30 GRANTS

In accordance with the provisions of Section 85 of the Act, and OMAFRA's ADIP policies, a grant not exceeding 33-1/3% may be available on the assessments against privately owned parcels of land which are used for agricultural purposes and are eligible for the Farm Property Class Tax Rate. Section 88 of the Act provides for the municipality to apply for this possible grant upon certification of completion of the drain provided for in this report. The municipality will first confirm the Farm Property Tax Class for the parcel in the current assessment roll, and then deduct the grant from the assessments prior to collecting the final assessments. If an assessed owner feels that their property should be eligible for the grant, and they can provide proof to the Municipality of this eligibility as noted prior to the final cost levy, then the property could have the 1/3 (33-1/3%) grant deducted from the final cost levy. Please be advised that OMAFRA retains the final right to determine eligibility under the grant program, regardless of designation herein.

In accordance with Section 85 of the Act, a grant not exceeding 1/3 (33-1/3%) may also be available in the future on the assessments against privately owned parcels of land used for agriculture (again as per OMAFRA'S ADIP policies), for maintenance and repair of the Clark Creek Drain 2021, including all of its branches and also for the other municipal drains and branches in its watershed, if done on the recommendation and supervision of an approved Drainage Superintendent and using the same eligibility requirements as outlined above.

31 CHANGES TO DRAIN AFTER BYLAW IS PASSED AND BEFORE COST IS LEVIED

Should changes, deletions or extensions to the drain proposed in this report be requested or required after the bylaws are passed and the contract is awarded, there may be some difficulty in attending to such. Since this drain is to be constructed in accordance with the Bylaw of the Township of Huron-Kinloss, changes to the drain cannot be undertaken without a change to the bylaws. An exception would be very minor changes which are approved by the engineer and the municipality in accordance with the General Conditions in the report.

If it is desired to make a substantial addition or deletion to the drain proposed in this report, it will be necessary that a revised report be prepared and processed through the Act, or in some cases, an application to the Tribunal may be required under the Act to obtain approval for a necessary change.

If any individual or group of owners require additional work on the proposed drain and are prepared to pay for such, they may make their own arrangements with the contractor to have such work constructed. The engineer must pre-approve such additions to verify there is no impact on the function or maintenance of the drain as proposed. Even so, the work added would not form part of the drain for the purpose of future maintenance.

All of which is respectfully submitted,

K. SMART ASSOCIATES LTD.

Neal Morris

N. Morris, P. Eng.

mw



SCHEDULE A - SCHEDULE OF ASSESSMENTS FOR CONSTRUCTION
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Owned Area (ha)	Affected Area (ha)	Benefit (\$)	Outlet (\$)	Total (\$)
<i>Twp of Huron-Kinloss (Twp. Of Huron)</i>								
<i>Lands</i>								
1	Pts 72 & 73	001-05600	Amberley Farms Ltd.	40.1	15.4	-	2,957	2,957
1	Pts 74 & 75	001-05700	P. Hoeper	40.3	9.3	-	1,786	1,786
1	Pts 55-59	001-09500	Epsilon Farms Ltd.	150.8	21.0	-	4,032	4,032
1	Pt. 60	001-09700	C. Kleingarn	37.8	6.4	-	1,229	1,229
1	Pt 60	001-09701	C. Wiggermann	0.8	0.8	-	154	154
1	61	001-09800	C. Kleingarn	40.4	7.3	-	1,402	1,402
1	Pt 62-64	001-09900	Amberley Farms Ltd.	59.4	20.1	-	3,859	3,859
1	Pt 64	001-09950	K. Hoeper	1.3	1.3	-	250	250
1	Pt 65	001-10000	J. Courtney	20.2	10.5	-	2,016	2,016
1	Pt 66-68	001-10200	H. Geene	60.7	44.1	-	8,468	8,468
1	Pt 69	001-10300	Brucelea Poultry Farm Ltd.	19.6	19.1	-	3,667	3,667
1	Pt 69	001-10400	J. Arnold	0.4	0.4	-	77	77
1	70	001-10500	Brucelea Poultry Farm Ltd.	35.8	17.5	-	3,226	3,226
1	Pts 71 & 72	001-10600	I. Courtney	64.2	53.2	-	9,812	9,812
1	Pt 72	001-10800	W. Card	0.4	0.4	-	77	77
1	Pt 73-76	001-11000	M. Courtney	66.8	66.8	-	12,442	12,442
1	Pt 76, 77	001-11100	M. Courtney	27.6	26.7	-	5,050	5,050
1	Pt 77	001-11200	M. Courtney	0.7	0.7	-	134	134
1	Pt 78, 79	001-11300	M. Geene	40.4	40.4	-	7,757	7,757
1	Pt 80	001-11400	D. Schoenemann	0.8	0.8	-	154	154
1	Pt 80	001-11500	D. Smeltzer	39.7	18.2	-	3,495	3,495
2	25	001-14610	S. Snobelen	38.6	2.8	-	538	538
2	E½ 26	001-14700	M. Snobelen	20.2	0.0	-	-	-
2	W½ 26, 27	001-14800	S. Snobelen	60.7	35.3	-	6,778	6,778
2	E½ 29, 28	001-15000	817941 Ontario Ltd.	60.7	60.7	-	11,617	11,617
2	E½ 30, W½ 29	001-15100	V. Von Trips	40.4	40.4	-	7,488	7,488
2	W½ 30	001-15101	J. Courtney	20.2	20.2	-	3,475	3,475
2	31	001-15200	B. Fry	40.4	40.4	-	7,700	7,700
2	Pt 32, 33, 34	001-15300	V. Berghe Von Trips	119.3	97.5	-	18,683	18,683
2	Pt. 32	001-15310	M. Shaw	0.8	0.8	-	154	154
2	Pt. 34	001-15600	C. Boot	1.2	1.2	-	230	230
2	S½ 35	001-15700	J. Courtney	23.9	10.5	-	2,016	2,016
2	36	001-16000	M. Courtney	40.4	20.2	-	3,879	3,879
2	Pt 37	001-16100	Prehnbrook Farms Ltd.	39.7	37.4	-	7,181	7,181
2	Pt. 37	001-16101	D. McLeod	0.7	0.7	-	134	134
2	38	001-16200	Prehnbrook Farms Ltd.	40.4	40.4	-	7,757	7,757
2	Pt 39	001-16300	R. Courtney	39.7	39.7	-	7,546	7,546
2	Pt 39	001-16350	M. Humphrey	0.7	0.7	-	115	115
2	40	001-16400	M. Smeltzer	40.4	40.4	-	7,623	7,623
3	22	001-19100	B. Scott	40.4	19.0	-	3,648	3,648
3	21	001-19101	J. Scott	40.4	3.3	-	634	634
3	23,24	001-19200	S. Snobelen	80.9	68.8	-	13,210	13,210
3	25	001-19400	Snobelen Ag Inc.	40.4	40.4	-	7,757	7,757
3	Pt 26, 27	001-19500	Mike Snobelen Farms Ltd.	31.7	0.0	-	-	-
3	Pt 26, 27	001-19501	Snobelen Farms Ltd.	3.0	3.0	-	576	576
3	Pt 26, 27	001-19510	S. Snobelen Trustee	45.4	77.1	-	14,382	14,382
3	Pt 27	001-19601	G. Kavaloff	0.7	0.7	-	134	134
3	28	001-19700	533841 Ontario Ltd.	40.4	40.4	-	7,469	7,469
3	29	001-19800	Brucelea Poultry Farm Ltd.	40.4	40.4	-	7,584	7,584
3	30	001-19900	Brucelea Poultry Farm Ltd.	40.4	33.2	-	6,317	6,317
3	Pt 31	001-20000	B. Fry	10.1	10.1	-	1,939	1,939
3	Pt 31	001-20100	Brucelea Poultry Farm Ltd.	30.3	8.9	-	1,709	1,709
3	32	001-20200	J. Drzazga	40.4	13.4	-	2,573	2,573
3	33	001-20300	M. Ferguson	40.4	6.1	-	1,171	1,171
3	37	001-20900	Prehnbrook Farms Ltd.	40.4	4.2	-	806	806
3	38	001-21000	Prehnbrook Farms Ltd.	40.4	12.4	-	2,381	2,381
3	E½ 39	001-21100	M. Smeltzer	20.0	6.0	-	1,152	1,152
3	40, W½ 39	001-21200	M. Wilken	60.5	32.7	-	5,779	5,779
4	11, Pt 12	001-22500	Snobelen Ag Inc.	80.9	9.7	-	1,862	1,862
4	W½ 13	001-22600	B. Scott	20.2	4.0	-	768	768
4	E½ 13	001-22620	B. Scott	19.3	2.9	-	557	557
4	14	001-22700	B. Scott	40.4	10.5	-	2,016	2,016
4	15	001-22800	R. Blackwell	40.0	16.8	-	3,226	3,226
4	16	001-22801	Wanda Snobelen Ltd.	40.0	20.0	-	3,783	3,783
4	E½ 17	001-22900	S. Colling	20.2	9.7	-	1,862	1,862
4	18, W½ 17	001-23000	2450623 Ontario Limited	60.7	37.2	-	6,240	6,240
4	20	001-23200	Wehrmann Farms Ltd.	40.4	39.7	-	7,623	7,623
4	Pt 21	001-23300	T. & A. Mitchell Farms Inc.	39.2	39.2	-	7,527	7,527

**SCHEDULE A - SCHEDULE OF ASSESSMENTS FOR CONSTRUCTION
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Owned Area (ha)	Affected Area (ha)	Benefit (\$)	Outlet (\$)	Total (\$)
4	Pt 21	001-23301	T. Bartley	1.2	1.2	-	230	230
4	22	001-23400	T. & A. Mitchell Farms Inc.	40.4	41.3	-	7,930	7,930
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	100.6	100.6	-	19,316	19,316
4	Pt 23	001-23501	L. Weerdenburg	0.6	0.6	-	115	115
4	Pt W½ 25	001-23700	J. Snobelen	18.7	16.7	-	3,207	3,207
4	Pt W½ 25	001-23720	B. Rawlings	1.9	1.5	-	288	288
4	Pt 26	001-23800	Acciona Wind Energy Canada	4.1	4.1	-	787	787
4	Pt 26,27	001-23801	S. Snobelen	72.4	32.4	-	6,221	6,221
4	Pt 27	001-23900	R. Forster	0.4	0.4	-	77	77
4	Pt 27	001-24000	J. Kiernan	4.0	4.0	-	768	768
4	E½ 28	001-24100	533841 Ontario Ltd.	20.2	8.1	-	1,555	1,555
4	PtE½ 29,W½28	001-24200	533841 Ontario Ltd.	40.3	12.8	-	2,458	2,458
4	Pt E½ 29	001-24201	H. Wardell	0.2	0.2	2	38	40
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	20.2	3.6	-	691	691
4	30	001-24400	Scottdale Poultry Farm Ltd.	40.4	1.2	-	230	230
5	Pt 7	002-00800	P. Schlegel	40.4	2.0	-	384	384
5	W½ 9	002-01100	Schwoba Farms Ltd.	20.2	10.0	-	1,920	1,920
5	10	002-01200	H. Schwarz	40.4	20.4	-	3,917	3,917
5	11	002-01300	M. Piel	40.4	40.4	-	7,757	7,757
5	E½ 12	002-01400	M. Piel	20.2	20.2	-	3,879	3,879
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	59.6	59.6	-	11,444	11,444
5	Pt 13	002-01510	M. Arndt	1.0	1.0	-	192	192
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	60.7	58.9	-	11,309	11,309
5	W½ 15	002-01700	Rick Smith Farms Ltd.	19.7	18.8	-	3,610	3,610
5	16,17	002-01900	M. Smith	80.4	63.8	-	12,250	12,250
5	E½ 18	002-02000	M. Smith	20.2	13.2	-	2,515	2,515
5	Pt 19, W½ 18	002-02100	J. Drzazga	34.9	15.4	-	2,957	2,957
5	Pt 19, 20	002-02300	D. Gibson	22.3	43.7	-	8,391	8,391
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	89.0	47.9	-	9,197	9,197
5	W½ 22	002-02600	533841 Ontario Ltd.	20.2	5.7	-	1,094	1,094
5	E½ 23	002-02700	S. Snobelen	20.2	5.3	-	1,018	1,018
5	W½ 23	002-02800	S. Snobelen	20.2	4.9	-	941	941
5	Pt 24	002-02950	S. Snobelen	38.9	8.5	-	1,632	1,632
5	Pt 25	002-03000	J. Snobelen	40.4	2.0	-	384	384
6	Pt 8	002-05701	P. D. Schlegel Limited	5.8	4.5	-	864	864
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	80.9	30.2	-	5,799	5,799
6	Pt 11	002-05900	F. Martens-Oberwelland	38.7	2.0	-	192	192
6	E½ 12	002-06000	F. Martens-Oberwelland	20.2	3.6	-	346	346
6	W½ 12	002-06100	E. Piel	20.2	2.8	-	269	269
6	13	002-06200	E. Piel	40.4	2.4	-	230	230
L.R.	8,9,10	005-25500	D. Smeltzer	35.6	4.5	-	864	864
L.R.	11,12,13	006-01400	K. Elmes	75.7	51.1	40,000	8,180	48,180
L.R.	Pt 13	006-04300	M. Smeltzer	15.8	15.8	25,000	2,823	27,823
L.R.	Pt 14-17	006-05500	J. Lowry	75.5	20.2	-	3,879	3,879
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	40.4	40.4	-	7,757	7,757
L.R.	Pt 18	006-29800	W. Godfrey	29.5	12.1	-	2,323	2,323
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	51.3	6.1	-	1,171	1,171
Sub-Total (Lands):					2,345.6	65,002	443,042	508,044
Roads								
South Baseline					5.6	-	1,805	1,805
Sideroad 10 South					2.4	-	691	691
Bruce Road 7					3.6	-	1,171	1,171
Sideroad 20 South					3.4	-	979	979
Sideroad 25 South					3.9	-	1,123	1,123
Sideroad 30 South					3.9	-	1,123	1,123
Hwy # 21					3.8	-	1,459	1,459
Concession 2					11.8	-	4,531	4,531
Concession 4					9.3	-	3,573	3,573
Concession 6 East					6.9	-	2,651	2,651
Sub-Total (Roads):					54.6	-	19,106	19,106
TOTAL FOR CLARK CREEK DRAIN 2015:					2,400.2	65,002	462,148	527,150

Note:

- All lands are in the geographic Township of Huron, in the Township of Huron-Kinloss.
- Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected. The affected parcels of land have been identified using the roll number from the last revised assessment roll for the Township. For convenience only, the owners' names as shown by the last revised assessment roll, have been included.

SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Table with columns for Riffle, Interval 1-6, Interval 7, A DRAIN - Cont'd, and Interval 8-9. Includes sub-totals for lands and roads, and a total for Clark Creek Drain 2015.

Notes:

- 1. All lands are in the geographic Township of Huron, in the Township of Huron-Kinloss.
2. Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected.
3. The dollar amounts shown are not amounts to be paid at this time. These amounts were only used to create the percentages or portions that each parcel (property) and road will pay for any future maintenance repair or maintenance costs.

SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Con	Lot	Roll No. (41-07-160-)	Owner(s)	A DRAIN - Cont'd						CLARK CREEK DRAIN - Cont'd												
				Interval 10		Interval 11		Interval 12		A Drain Total	Branch B		Branch C		Branch D			E Branch Interval 1		E Branch Interval 2		Br. E Total
				From	To	From	To	From	To		Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	To	1+184		
				A13+630	A14+630	A14+630	A16+827	A16+827	A17+652	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	0+000	0+792	Assess. \$	%	
Two of Huron-Kinloss (Two of Huron)																						
Lands																						
1	Pts 72 & 73	001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pts 74 & 75	001-05700	P. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pts 55-59	001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt. 60	001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	4,005	17.49	9,643	72.34	13,648			
1	Pt 60	001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	1,221	5.33	1,811	13.59	3,032			
1	61	001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	153	0.67	226	1.7	379			
1	Pt 62-64	001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 64	001-09950	K. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 65	001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 66-68	001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 69	001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 69	001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	70	001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pts 71 & 72	001-10600	I. Courtney	0	0	0	0	0	0	0	0	1,109	2.63	0	0	0	0	0	0	0		
1	Pt 72	001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	Pt 73-76	001-11000	M. Courtney	0	0	0	0	0	0	0	0	2,752	6.53	0	0	0	0	0	0	0		
1	Pt 76, 77	001-11100	M. Courtney	0	0	0	0	0	0	0	0	1,755	0	0	0	0	0	0	0	0		
1	Pt 77	001-11200	M. Courtney	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0		
1	Pt 78, 79	001-11300	M. Geene	0	0	0	0	0	0	0	0	1,652	0	0	0	0	0	0	0	0		
1	Pt 80	001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0		
1	Pt 80	001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	383	0	0	0	0	0	0	0	0		
2	25	001-14610	S. Snobelen	0	0	0	0	0	0	0	0	228	0	0	0	0	0	0	0	0		
2	E½ 26	001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	W½ 26, 27	001-14800	S. Snobelen	0	0	0	0	0	0	0	0	1,801	0	0	0	0	0	0	0	668		
2	E½ 29, 28	001-15000	817941 Ontario Ltd.	0	0	0	0	0	0	0	0	3,676	0	0	0	0	0	0	0	4,768		
2	E½ 30, W½ 29	001-15100	V. Von Trips	0	0	0	0	0	0	0	0	3,780	0	0	170	0.97	8,592	37.53	0	8,592		
2	W½ 30	001-15101	J. Courtney	0	0	0	0	0	0	0	0	1,475	0	0	667	3.79	0	0	0	0		
2	31	001-15200	B. Fry	0	0	0	0	0	0	0	0	3,107	0	0	3,340	18.97	0	0	0	0		
2	Pt 32, 33, 34	001-15300	V. Berge Von Trips	0	0	0	0	0	0	0	0	8,905	0	0	3,075	17.47	0	0	0	0		
2	Pt. 32	001-15310	M. Shaw	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0		
2	Pt. 34	001-15600	C. Boot	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0		
2	S½ 35	001-15700	J. Courtney	0	0	0	0	0	0	0	0	344	0	0	0	0	0	0	0	0		
2	36	001-16000	M. Courtney	0	0	0	0	0	0	0	0	144	0	0	4,149	9.85	0	0	0	0		
2	Pt 37	001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	266	1,569	3.58	9,160	21.74	0	0	0	0		
2	Pt. 37	001-16101	D. McLeod	0	0	0	0	0	0	0	0	5	0	0	144	0.34	0	0	0	0		
2	38	001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	287	4,672	10.65	10,894	25.86	0	0	0	0		
2	Pt 39	001-16300	R. Courtney	0	0	0	0	0	0	0	0	306	6,510	14.84	4,272	10.14	0	0	0	0		
2	Pt 39	001-16350	M. Humphrey	0	0	0	0	0	0	0	0	262	4,800	10.94	4,500	10.68	0	0	0	0		
2	40	001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	2,112	13,079	29.82	4,245	10.08	0	0	0	0		
3	22	001-19100	B. Scott	0	0	0	0	0	0	0	0	2,046	0	0	0	0	0	0	0	0		
3	21	001-19101	J. Scott	0	0	0	0	0	0	0	0	267	0	0	0	0	0	0	0	0		
3	23,24	001-19200	S. Snobelen	0	0	0	0	0	0	0	0	9,264	0	0	0	0	0	0	0	0		
3	25	001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	4,586	0	0	0	0	0	0	0	0		
3	Pt 26, 27	001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	1,800	0	0	0	0	0	0	0	0		
3	Pt 26, 27	001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	187	0	0	0	0	0	0	0	0		
3	Pt 26, 27	001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	6,421	0	0	0	0	0	0	0	0		
3	Pt 27	001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0		
3	28	001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	3,786	0	0	0	0	0	0	0	0		
3	29	001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	2,002	0	0	0	0	0	0	0	0		
3	30	001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	1,126	0	0	5,197	29.52	0	0	0	0		
3	Pt 31	001-20000	B. Fry	0	0	0	0	0	0	0	0	330	0	0	1,559	8.86	0	0	0	0		
3	Pt 31	001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	291	0	0	1,373	7.8	0	0	0	0		
3	32	001-20200	J. Drzazga	0	0	0	0	0	0	0	0	438	0	0	0	0	0	0	0	0		
3	33	001-20300	M. Ferguson	0	0	0	0	0	0	0	0	199	0	0	0	0	0	0	0	0		
3	37	001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	30	1,647	3.76	0	0	0	0	0	0		
3	38	001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	88	9,112	20.78	0	0	0	0	0	0		
3	E½ 39	001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	43	1,961	4.47	0	0	0	0	0	0		
3	40, W½ 39	001-21200	M. Wilken	0	0	0	0	0	0	0	0	214	510	1.16	0	0	0	0	0	0		
4	11, Pt 12	001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	1,271	0	0	0	0	0	0	0	0		
4	W½ 13	001-22600	B. Scott	0	0	0	0	0	0	0	0	523	0	0	0	0	0	0	0	0		
4	E½ 13	001-22620	B. Scott	0	0	0	0	0	0	0	0	380	0	0	0	0	0	0	0	0		
4	14	001-22700	B. Scott	0	0	0	0	0	0	0	0	1,377	0	0	0	0	0	0	0	0		
4	15	001-22800	R. Blackwell	181	1.19	448	1.33	0	0	0	0	2,829	0	0	0	0	0	0	0	0		
4	16	001-22801	Wanda Snobelen Ltd.	1,144	7.49	0	0	0	0	0	0	3,723	0	0	0	0	0	0	0	0		
4	E½ 17	001-22900	S. Colling	971	6.36	0	0	0	0	0	0	2,242	0	0	0	0	0	0	0	0		
4	18, W½ 17	001-23000	2450623 Ontario Limited	1,398	9.16	0	0	0	0	0	0	7,678	0	0	0	0	0	0	0	0		
4	20	001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	6,264	0	0	0	0	0	0	0	0		
4	Pt 21	001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	5,857	0	0	0	0	0	0	0	0		
4	Pt 21	001-23301	T. Bartley	0	0	0	0	0	0	0	0	588	0	0	0	0	0	0	0	0		

**SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

				A DRAIN - Cont'd						CLARK CREEK DRAIN - Cont'd											
				Interval 10		Interval 11		Interval 12		A Drain Total	Branch B		Branch C		Branch D		E Branch Interval 1		E Branch Interval 2		Br. E Total
				From	To	From	To	From	To		Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	
				A13+630	A14+630	A14+630	A16+827	A16+827	A17+652								0+000	0+792	To	1+184	
Con	Lot	Roll No. (41-07-160-)	Owner(s)	Assess. \$	%	Assess. \$	%	Assess. \$	%		Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Br. E Total
4	22	001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	5,755	0	0	0	0	0	0	0	0	0	0	0
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	0	0	0	0	0	0	5,836	0	0	0	0	0	0	0	0	0	0	0
4	Pt 23	001-23501	L. Weerdenburg	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0
4	Pt W½ 25	001-23700	J. Snobelen	0	0	0	0	0	0	778	0	0	0	0	0	0	0	0	0	0	0
4	Pt W½ 25	001-23720	B. Rawlings	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0
4	Pt 26	001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	197	0	0	0	0	0	0	0	0	0	0	0
4	Pt 26,27	001-23801	S. Snobelen	0	0	0	0	0	0	1,420	0	0	0	0	0	0	0	0	0	0	0
4	Pt 27	001-23900	R. Forster	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
4	Pt 27	001-24000	J. Kiernan	0	0	0	0	0	0	175	0	0	0	0	0	0	0	0	0	0	0
4	E½ 28	001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	356	0	0	0	0	0	0	0	0	0	0	0
4	PIE½ 29, W½ 28	001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	562	0	0	0	0	0	0	0	0	0	0	0
4	Pt E½ 29	001-24201	H. Wardell	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	158	0	0	0	0	0	0	0	0	0	0	0
4	30	001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0
5	Pt 7	002-00800	P. Schlegel	75	0.49	187	0.56	215	1.6	738	0	0	0	0	0	0	0	0	0	0	0
5	W½ 9	002-01100	Schwoba Farms Ltd.	377	2.47	934	2.78	1,075	8	3,695	0	0	0	0	0	0	0	0	0	0	0
5	10	002-01200	H. Schwarz	770	5.04	1,904	5.67	2,192	16.32	7,536	0	0	0	0	0	0	0	0	0	0	0
5	11	002-01300	M. Piel	1,140	7.47	4,719	14.05	0	0	11,151	0	0	0	0	0	0	0	0	0	0	0
5	E½ 12	002-01400	M. Piel	528	3.46	2,257	6.72	0	0	5,422	0	0	0	0	0	0	0	0	0	0	0
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	1,607	10.53	6,577	19.59	0	0	15,862	0	0	0	0	0	0	0	0	0	0	0
5	Pt 13	002-01510	M. Arndt	0	0	0	0	0	0	116	0	0	0	0	0	0	0	0	0	0	0
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	1,487	9.74	6,328	18.84	0	0	15,281	0	0	0	0	0	0	0	0	0	0	0
5	W½ 15	002-01700	Rick Smith Farms Ltd.	287	1.88	1,659	4.94	0	0	4,231	0	0	0	0	0	0	0	0	0	0	0
5	16,17	002-01800	M. Smith	1,623	10.63	0	0	0	0	9,226	0	0	0	0	0	0	0	0	0	0	0
5	E½ 18	002-02000	M. Smith	0	0	0	0	0	0	1,508	0	0	0	0	0	0	0	0	0	0	0
5	Pt 19, W½ 18	002-02100	J. Drzazga	0	0	0	0	0	0	1,770	0	0	0	0	0	0	0	0	0	0	0
5	Pt 19, 20	002-02300	D. Gibson	0	0	0	0	0	0	4,801	0	0	0	0	0	0	0	0	0	0	0
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	3,139	0	0	0	0	0	0	0	0	0	0	0
5	W½ 22	002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0
5	E½ 23	002-02700	S. Snobelen	0	0	0	0	0	0	233	0	0	0	0	0	0	0	0	0	0	0
5	W½ 23	002-02800	S. Snobelen	0	0	0	0	0	0	215	0	0	0	0	0	0	0	0	0	0	0
5	Pt 24	002-02950	S. Snobelen	0	0	0	0	0	0	373	0	0	0	0	0	0	0	0	0	0	0
5	Pt 25	002-03000	J. Snobelen	0	0	0	0	0	0	87	0	0	0	0	0	0	0	0	0	0	0
6	Pt 8	002-05701	P. D. Schlegel Limited	170	1.11	420	1.25	484	3.6	1,663	0	0	0	0	0	0	0	0	0	0	0
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	1,140	7.47	2,819	8.39	5,545	41.28	13,460	0	0	0	0	0	0	0	0	0	0	0
6	Pt 11	002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	116	0	0	0	0	0	0	0	0	0	0	0
6	E½ 12	002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	207	0	0	0	0	0	0	0	0	0	0	0
6	W½ 12	002-06100	E. Piel	0	0	0	0	0	0	162	0	0	0	0	0	0	0	0	0	0	0
6	13	002-06200	E. Piel	0	0	0	0	0	0	138	0	0	0	0	0	0	0	0	0	0	0
L.R.	8,9,10	005-25500	D. Smeltzer	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0
L.R.	11,12,13	006-01400	K. Elmes	0	0	0	0	0	0	304	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 13	006-04300	M. Smeltzer	0	0	0	0	0	0	105	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05500	J. Lowry	0	0	0	0	0	0	144	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	288	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 18	006-29800	W. Godfrey	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (lands):				12,898	84.5	28,252	84.1	9,511	70.8	229,119	43,860	100.0	41,225	97.9	15,381	87.4	19,407	84.8	11,680	87.6	31,087
Roads																					
South Baseline			Twp of Huron-Kinloss	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0
Sideroad 10 South			Twp of Huron-Kinloss	136	0.89	4,786	14.24	1,497	11.15	6,891	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7			County of Bruce	2,012	13.18	0	0	0	0	2,765	0	0	0	0	0	0	0	0	0	0	0
Sideroad 20 South			Twp of Huron-Kinloss	0	0	0	0	0	0	535	0	0	0	0	0	0	0	0	0	0	0
Sideroad 25 South			Twp of Huron-Kinloss	0	0	0	0	0	0	3,495	0	0	0	0	0	0	0	0	0	0	0
Sideroad 30 South			Twp of Huron-Kinloss	0	0	0	0	0	0	2,274	0	0	0	2,224	12.62	0	0	0	0	0	0
Hwy # 21			MTO	0	0	0	0	0	0	2,232	0	0	0	0	0	0	0	0	0	0	0
Concession 2			Twp of Huron-Kinloss	0	0	0	0	0	0	5,906	0	0	905	2.15	0	0	3,488	15.23	1,650	12.37	5,138
Concession 4			Twp of Huron-Kinloss	0	0	0	0	0	0	4,012	0	0	0	0	0	0	0	0	0	0	0
Concession 6 East			Twp of Huron-Kinloss	219	1.44	542	1.64	2,422	18.05	4,403	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (Roads):				2,367	15.51	5,328	15.88	3,919	29.2	32,580	0	0	905	2.15	2,224	12.62	3,488	15.23	1,650	12.37	5,138
TOTAL FOR CLARK CREEK DRAIN 2015:				15,265	100.0	33,580	100.0	13,430	100.0	261,699	43,860	100.0	42,130	100.0	17,605	100.0	22,895	100.0	13,330	100.0	36,225

Notes:

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- The dollar amounts shown are not amounts to be paid at this time. These amounts were only used to create the percentages or portions that each parcel (property) and road will pay for any future maintenance repair or maintenance costs.

**SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

				CLARK CREEK DRAIN - CONT'D																		
				Branch F		Branch G		Branch H		Branch J		Branch K		Branch L		Branch M		Branch N		Branch P		
Con	Lot	Roll No. (41-07-160-)	Owner(s)	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	
4	22	001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	8,050	35.96	6,897	53.8	3,247	48.35	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt 23	001-23501	L. Weerdenburg	0	0	0	0	144	2.14	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt W½ 25	001-23700	J. Snobelen	400	1.79	1,893	14.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt W½ 25	001-23720	B. Rawlings	240	1.07	206	1.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt 26	001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt 26,27	001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt 27	001-23900	R. Forster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt 27	001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	E½ 28	001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PIE½ 29, W½ 28	001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Pt E½ 29	001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	30	001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 7	002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	W½ 9	002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	10	002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	11	002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	E½ 12	002-01400	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 13	002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	W½ 15	002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	16,17	002-01800	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	E½ 18	002-02000	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 19, W½ 18	002-02100	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 19, 20	002-02300	D. Gibson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	W½ 22	002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	E½ 23	002-02700	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	W½ 23	002-02800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 24	002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Pt 25	002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Pt 8	002-05701	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	3,338	12.62	1,488	20.2	0	0	
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	21,341	80.65	3,232	43.88	0	0	
6	Pt 11	002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	E½ 12	002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	W½ 12	002-06100	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	13	002-06200	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	8,9,10	005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	11,12,13	006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	Pt 13	006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	Pt 14-17	006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	Pt 18	006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total (lands):				18,638	83.3	10,846	84.6	5,672	84.5	25,845	100.0	7,325	100.0	17,810	100.0	24,679	93.3	4,720	64.1	6,310	100.0	
Roads																						
South Baseline				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 10 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 20 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 25 South				168	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 30 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hwy # 21				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 4				3,579	15.99	1,974	15.39	1,043	15.54	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 6 East				0	0	0	0	0	0	0	0	0	0	0	0	1,781	6.73	2,645	35.92	0	0	0
Sub-Total (Roads):				3,747	16.74	1,974	15.39	1,043	15.54	0	0	0	0	0	1,781	6.73	2,645	35.92	0	0	0	0
TOTAL FOR CLARK CREEK DRAIN 2015:				22,385	100.0	12,820	100.0	6,715	100.0	25,845	100.0	7,325	100.0	17,810	100.0	26,460	100.0	7,365	100.0	6,310	100.0	

Notes:
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 2. Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected. The affected parcels of land have been identified using the roll number from the last revised assessment roll for the Township. For convenience only, the owners' names as shown by the last revised assessment roll, has also been included.
 3. The dollar amounts shown are not amounts to be paid at this time. These amounts were only used to create the percentages or portions that each parcel (property) and road will pay for any future maintenance repair or maintenance costs.

SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

				CLARK CRK Branch R		Branch S (Unknown)		PREHN DRAIN		REAVIE MUNICIPAL DRAIN										
				Assess. \$	%	Assess. \$	%	Assess. \$	%	Interval 1 Main Dr.		Interval 2 Main Dr.		Interval 3 Main Dr.		Interval 4 Main Dr.		Main Dr Total	B Branch	
										From	To	From	To	From	To	From	To		From	To
Con	Lot	Roll No. (41-07-160-)	Owner(s)	0+000	1+480	1+480	2+798	2+798	3+436	3+436	3+436	4+410	Main Dr Total	Assess. \$	%					
Twp of Huron-Kinloss (Twp. Of Huron)																				
Lands																				
1	Pts 72 & 73	001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pts 74 & 75	001-05700	P. Hoepfer	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pts 55-59	001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt. 60	001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 60	001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	61	001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 62-64	001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 64	001-09950	K. Hoepfer	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 65	001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 66-68	001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 69	001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 69	001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	70	001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pts 71 & 72	001-10600	I. Courtney	4,939	18.38	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 72	001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 73-76	001-11000	M. Courtney	13,780	51.29	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 76, 77	001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 77	001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 78, 79	001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 80	001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	Pt 80	001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	25	001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	E½ 26	001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	W½ 26, 27	001-14800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	E½ 29, 28	001-15000	817941 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	E½ 30, W½ 29	001-15100	V. Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	W½ 30	001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	31	001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Pt 32, 33, 34	001-15300	V. Berghe Von Trips	0	0	3,500	18.9	0	0	0	0	0	0	0	0	0				
2	Pt. 32	001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Pt. 34	001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	S½ 35	001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	36	001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Pt 37	001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Pt. 37	001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	38	001-16200	Prehnbrook Farms Ltd.	1,550	5.77	0	0	0	0	0	0	0	0	0	0	0				
2	Pt 39	001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	Pt 39	001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	40	001-16400	M. Smeltzer	0	0	0	0	546	2.43	0	0	0	0	0	0	0				
3	22	001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	21	001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	23,24	001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	25	001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 26, 27	001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 26, 27	001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 26, 27	001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 27	001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	28	001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	29	001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	30	001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 31	001-20000	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	Pt 31	001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	32	001-20200	J. Drzazga	0	0	15,020	81.1	0	0	0	0	0	0	0	0	0				
3	33	001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	37	001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	38	001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	E½ 39	001-21100	M. Smeltzer	0	0	0	0	182	0.81	0	0	0	0	0	0	0				
3	40, W½ 39	001-21200	M. Wilken	0	0	0	0	5,292	23.53	0	0	0	0	0	0	0				
4	11, Pt 12	001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	W½ 13	001-22600	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	E½ 13	001-22620	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	14	001-22700	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	15	001-22800	R. Blackwell	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	16	001-22801	Wanda Snobelen Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	E½ 17	001-22900	S. Colling	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	18, W½ 17	001-23000	2450623 Ontario Limited	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	20	001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	Pt 21	001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0				
4	Pt 21	001-23301	T. Bartley	0	0	0	0	0	0	0	0	0	0	0	0	0				

SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
 CLARK CREEK DRAIN 2021
 Township of Huron-Kinloss

Con	Lot	Roll No. (41-07-160-)	Owner(s)	CLARK CRK Branch R				PREHN DRAIN				REAVIE MUNICIPAL DRAIN								
				Branch S (Unknown)		Assess. \$	%	Assess. \$	%	Interval 1 Main Dr.		Interval 2 Main Dr.		Interval 3 Main Dr.		Interval 4 Main Dr.		Main Dr Total	B Branch	
				Assess. \$	%					From	To	From	To	From	To	From	To		Assess. \$	%
Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%	Main Dr Total	Assess. \$	%				
4	22	001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	86	0.44	139	0.61	95	0.98	1,008	2.13	1,328	0	0
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	0	0	0	0	0	0	1,980	10.04	3,205	14.17	3,242	33.61	23,360	49.26	31,787	3,900	29.94
4	Pt 23	001-23501	L. Weerdenburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt W½ 25	001-23700	J. Snobelen	0	0	0	0	0	0	764	3.87	1,237	5.47	3,446	35.73	0	0	5,447	0	0
4	Pt W½ 25	001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 26	001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	167	0.85	270	1.19	0	0	0	0	437	0	0
4	Pt 26,27	001-23801	S. Snobelen	0	0	0	0	0	0	1,743	8.84	6,623	29.28	0	0	0	0	8,366	0	0
4	Pt 27	001-23900	R. Forster	0	0	0	0	0	0	22	0.11	35	0.15	0	0	0	0	57	0	0
4	Pt 27	001-24000	J. Kiernan	0	0	0	0	0	0	215	1.09	349	1.54	0	0	0	0	564	0	0
4	E½ 28	001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	436	2.21	1,656	7.32	0	0	0	0	2,092	0	0
4	PIE½ 29, W½ 28	001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	689	3.49	1,965	8.69	0	0	0	0	2,654	0	0
4	Pt E½ 29	001-24201	H. Wardell	0	0	0	0	0	0	11	0.06	17	0.08	0	0	0	0	28	0	0
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	194	0.98	314	1.39	0	0	0	0	508	0	0
4	30	001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	65	0.33	105	0.46	0	0	0	0	170	0	0
5	Pt 7	002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	W½ 9	002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	10	002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	11	002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	E½ 12	002-01400	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 13	002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	W½ 15	002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	16,17	002-01900	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	E½ 18	002-02000	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 19, W½ 18	002-02100	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 19, 20	002-02300	D. Gibson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	1,092	5.54	1,769	7.82	1,209	12.53	15,748	33.21	19,818	0	0
5	W½ 22	002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	307	1.56	497	2.2	340	3.53	6,194	13.06	7,338	0	0
5	E½ 23	002-02700	S. Snobelen	0	0	0	0	0	0	285	1.44	462	2.04	316	3.28	1,110	2.34	2,173	0	0
5	W½ 23	002-02800	S. Snobelen	0	0	0	0	0	0	264	1.34	427	1.89	292	3.03	0	0	983	0	0
5	Pt 24	002-02950	S. Snobelen	0	0	0	0	0	0	457	2.32	741	3.28	506	5.25	0	0	1,704	9,125	70.06
5	Pt 25	002-03000	J. Snobelen	0	0	0	0	0	0	108	0.55	174	0.77	119	1.23	0	0	401	0	0
6	Pt 8	002-05701	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Pt 11	002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	E½ 12	002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	W½ 12	002-06100	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	13	002-06200	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	8,9,10	005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	11,12,13	006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 13	006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	0	0	0	0	8,829	39.26	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 18	006-29800	W. Godfrey	0	0	0	0	2,202	9.79	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	0	0	0	0	1,110	4.94	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (lands):				20,269	75.4	18,520	100.0	18,161	80.8	17,409	88.3	19,985	88.4	9,565	99.2	47,420	100.0	94,379	13,025	100.0
Roads																				
South Baseline				0	0	0	0	4,329	19.24	0	0	0	0	0	0	0	0	0	0	0
Sideroad 10 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 20 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 25 South				0	0	0	0	0	0	0	0	1,435	6.34	80	0.83	0	0	1,515	0	0
Sideroad 30 South				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hwy # 21				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 2				6,596	24.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 4				0	0	0	0	0	0	2,316	11.73	1,200	5.31	0	0	0	0	3,516	0	0
Concession 6 East				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (Roads):				6,596	24.56	0	0	4,329	19.24	2,316	11.73	2,635	11.65	80	0.83	0	0	5,031	0	0
TOTAL FOR CLARK CREEK DRAIN 2015:				26,865	100.0	18,520	100.0	22,490	100.0	19,725	100.0	22,620	100.0	9,645	100.0	47,420	100.0	99,410	13,025	100.0

Notes:

- All lands are in the geographic Township of Huron, in the Township of Huron-Kinloss.
- Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected. The affected parcels of land have been identified using the roll number from the last revised assessment roll for the Township. For convenience only, the owners' names as shown by the last revised assessment roll, has also been included.
- The dollar amounts shown are not amounts to be paid at this time. These amounts were only used to create the percentages or portions that each parcel (property) and road will pay for any future maintenance repair or maintenance costs.

SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

				REAVIE MUN. DR - Cont'd				SNOBELEN DRAIN		SMITH DRAIN				PAQUETTE DRAIN	
				A Branch		C Branch				Main Drain		Branch A			
				Assess.	%	Assess.	%	Assessment \$	%	From	To	From	To	Assess.	%
Con	Lot	Roll No. (41-07-160-)	Owner(s)	\$		\$		\$		0+000	1+679	1+679	1+767	\$	
Twp of Huron-Kinloss (Twp. Of Huron)															
Lands															
1	Pts 72 & 73	001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
1	Pts 74 & 75	001-05700	P. Hoepfer	0	0	0	0	0	0	0	0	0	0	0	0
1	Pts 55-59	001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt. 60	001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 60	001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	0
1	61	001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 62-64	001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 64	001-09950	K. Hoepfer	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 65	001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 66-68	001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 69	001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 69	001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0
1	70	001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
1	Pts 71 & 72	001-10600	I. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 72	001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 73-76	001-11000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 76, 77	001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 77	001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 78, 79	001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 80	001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0
1	Pt 80	001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0
2	25	001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
2	E½ 26	001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
2	W½ 26, 27	001-14800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
2	E½ 29, 28	001-15000	817941 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
2	E½ 30, W½ 29	001-15100	V. Von Trips	0	0	0	0	0	0	0	0	0	0	0	0
2	W½ 30	001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
2	31	001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt 32, 33, 34	001-15300	V. Bergehe Von Trips	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt. 32	001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt. 34	001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0
2	S½ 35	001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
2	36	001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt 37	001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt. 37	001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0
2	38	001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt 39	001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0
2	Pt 39	001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0
2	40	001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0
3	22	001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0
3	21	001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0
3	23,24	001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
3	25	001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 26, 27	001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 26, 27	001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 26, 27	001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 27	001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	0	0	0	0
3	28	001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	29	001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	30	001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 31	001-20000	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0
3	Pt 31	001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	32	001-20200	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0
3	33	001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0
3	37	001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	38	001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
3	E½ 39	001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0
3	40, W½ 39	001-21200	M. Wilken	0	0	0	0	0	0	0	0	0	0	0	0
4	11, Pt 12	001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	5,118	12
4	W½ 13	001-22600	B. Scott	0	0	0	0	0	0	0	0	0	0	1,921	4.51
4	E½ 13	001-22620	B. Scott	0	0	0	0	0	0	0	0	0	0	1,612	3.78
4	14	001-22700	B. Scott	0	0	0	0	0	0	0	0	0	0	4,592	10.77
4	15	001-22800	R. Blackwell	0	0	0	0	0	0	0	0	0	0	5,113	11.99
4	16	001-22801	Wanda Snobelen Ltd.	0	0	0	0	0	0	0	0	0	0	5,135	12.04
4	E½ 17	001-22900	S. Colling	0	0	0	0	0	0	0	0	0	0	2,621	6.15
4	18, W½ 17	001-23000	2450623 Ontario Limited	0	0	0	0	0	0	866	1.71	0	0	2,523	5.92
4	20	001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 21	001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 21	001-23301	T. Bartley	0	0	0	0	0	0	0	0	0	0	0	0

**SCHEDULE B - SCHEDULE OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

				REAVIE MUN. DR - Cont'd				SNOBELEN DRAIN		SMITH DRAIN				PAQUETTE DRAIN	
				A Branch		C Branch				Main Drain		Branch A			
				From	To	From	To			From	To	From	To		
				0+000	1+679	1+679	1+767			0+000	1+679	1+679	1+767		
Con	Lot	Roll No. (41-07-160-)	Owner(s)	Assess. \$	%	Assess. \$	%	Assessment \$	%	Assess. \$	%	Assess. \$	%	Assess. \$	%
4	22	001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	22,490	37.4	0	0	0	0	0	0
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	7,450	40.01	0	0	0	0	0	0	0	0	0	0
4	Pt 23	001-23501	L. Weerdenburg	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt W½ 25	001-23700	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt W½ 25	001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 26	001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 26,27	001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 27	001-23900	R. Forster	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt 27	001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	0	0	0
4	E½ 28	001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
4	PIE½ 29,W½ 28	001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
4	Pt E½ 29	001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	0	0	0
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
4	30	001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 7	002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0
5	W½ 9	002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
5	10	002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0
5	11	002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	2,858	6.7
5	E½ 12	002-01400	M. Piel	0	0	0	0	0	0	156	0.31	23	0.87	1,569	3.68
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	2,104	4.15	309	11.68	2,493	5.85
5	Pt 13	002-01510	M. Arndt	0	0	0	0	0	0	260	0.51	38	1.44	0	0
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	4,026	7.94	591	22.34	1,121	2.63
5	W½ 15	002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	2,909	5.74	1,326	50.14	0	0
5	16,17	002-01900	M. Smith	0	0	0	0	0	0	19,433	38.35	0	0	0	0
5	E½ 18	002-02000	M. Smith	0	0	0	0	0	0	5,076	10.02	0	0	0	0
5	Pt 19, W½ 18	002-02100	J. Drzazga	0	0	0	0	0	0	5,496	10.85	0	0	0	0
5	Pt 19, 20	002-02300	D. Gibson	0	0	0	0	6,043	10.05	831	1.64	0	0	0	0
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	0	0	5,787	64.62	23,165	38.52	0	0	0	0	0	0
5	W½ 22	002-02600	533841 Ontario Ltd.	0	0	2,664	29.75	0	0	0	0	0	0	0	0
5	E½ 23	002-02700	S. Snobelen	3,872	20.79	504	5.63	0	0	0	0	0	0	0	0
5	W½ 23	002-02800	S. Snobelen	7,298	39.2	0	0	0	0	0	0	0	0	0	0
5	Pt 24	002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
5	Pt 25	002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0
6	Pt 8	002-05701	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0
6	Pt 11	002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	260	0.51	38	1.44	0	0
6	E½ 12	002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	467	0.92	69	2.61	0	0
6	W½ 12	002-06100	E. Piel	0	0	0	0	0	0	364	0.72	53	2	0	0
6	13	002-06200	E. Piel	0	0	0	0	0	0	312	0.62	46	1.74	0	0
L.R.	8,9,10	005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	11,12,13	006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 13	006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 18	006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	0	0	0
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (lands):				18,620	100.0	8,955	100.0	51,698	86.0	42,560	84.0	2,493	94.3	36,676	86.0
Roads															
South Baseline				0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 10 South				0	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7				0	0	0	0	0	0	7,077	13.96	0	0	5,959	13.98
Sideroad 20 South				0	0	0	0	8,442	14.03	0	0	0	0	0	0
Sideroad 25 South				0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 30 South				0	0	0	0	0	0	0	0	0	0	0	0
Hwy # 21				0	0	0	0	0	0	0	0	0	0	0	0
Concession 2				0	0	0	0	0	0	0	0	0	0	0	0
Concession 4				0	0	0	0	0	0	0	0	0	0	0	0
Concession 6 East				0	0	0	0	0	0	1,038	2.05	152	5.74	0	0
Sub-Total (Roads):				0	0	0	0	8,442	14.03	8,115	16.01	152	5.74	5,959	13.98
TOTAL FOR CLARK CREEK DRAIN 2015:				18,620	100.0	8,955	100.0	60,140	100.0	50,675	100.0	2,645	100.0	42,635	100.0

Notes:

- All lands are in the geographic Township of Huron, in the Township of Huron-Kinloss.
- Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected. The affected parcels of land have been identified using the roll number from the last revised assessment roll for the Township. For convenience only, the owners' names as shown by the last revised assessment roll, has also been included.
- The dollar amounts shown are not amounts to be paid at this time. These amounts were only used to create the percentages or portions that each parcel (property) and road will pay for any future maintenance repair or maintenance costs.

**SCHEDULE C - SCHEDULE FOR ACTUAL COST BYLAW
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Gross Total (\$)	1/3 Grant (\$)	Allowance (\$)	NET (\$)
<u>Twp of Huron-Kinloss (Twp. Of Huron)</u>							
<u>Lands</u>							
F	1	Pts 72 & 73	001-05600 Amberley Farms Ltd.	2,957	986		1,971
F	1	Pts 74 & 75	001-05700 P. Hoepfer	1,786	595		1,191
	1	Pts 55-59	001-09500 Epsilon Farms Ltd.	4,032	-		4,032
	1	Pt. 60	001-09700 C. Kleingarn	1,229	-		1,229
	1	Pt 60	001-09701 C. Wiggermann	154	-		154
	1	61	001-09800 C. Kleingarn	1,402	-		1,402
F	1	Pt 62-64	001-09900 Amberley Farms Ltd.	3,859	1,286		2,573
	1	Pt 64	001-09950 K. Hoepfer	250	-		250
F	1	Pt 65	001-10000 J. Courtney	2,016	672		1,344
F	1	Pt 66-68	001-10200 H. Geene	8,468	2,823		5,645
F	1	Pt 69	001-10300 Brucelea Poultry Farm Ltd.	3,667	1,222		2,445
	1	Pt 69	001-10400 J. Arnold	77	-		77
F	1	70	001-10500 Brucelea Poultry Farm Ltd.	3,226	1,075		2,151
F	1	Pts 71 & 72	001-10600 I. Courtney	9,812	3,271		6,541
	1	Pt 72	001-10800 W. Card	77	-		77
F	1	Pt 73-76	001-11000 M. Courtney	12,442	4,147		8,295
F	1	Pt 76, 77	001-11100 M. Courtney	5,050	1,683		3,367
	1	Pt 77	001-11200 M. Courtney	134	-		134
F	1	Pt 78, 79	001-11300 M. Geene	7,757	2,586		5,171
	1	Pt 80	001-11400 D. Schoenemann	154	-		154
F	1	Pt 80	001-11500 D. Smeltzer	3,495	1,165		2,330
F	2	25	001-14610 S. Snobelen	538	179		359
F	2	E½ 26	001-14700 M. Snobelen	-	-		-
F	2	W½ 26, 27	001-14800 S. Snobelen	6,778	2,259		4,519
F	2	E½ 29, 28	001-15000 817941 Ontario Ltd.	11,617	3,872		7,745
	2	E½ 30, W½ 29	001-15100 V. Von Trips	7,488	-		7,488
F	2	W½ 30	001-15101 J. Courtney	3,475	1,158		2,317
F	2	31	001-15200 B. Fry	7,700	2,567		5,133
	2	Pt 32, 33, 34	001-15300 V. Berghe Von Trips	18,683	-		18,683
	2	Pt. 32	001-15310 M. Shaw	154	-		154
	2	Pt. 34	001-15600 C. Boot	230	-		230
F	2	S½ 35	001-15700 J. Courtney	2,016	672		1,344
F	2	36	001-16000 M. Courtney	3,879	1,293		2,586
F	2	Pt 37	001-16100 Prehnbrook Farms Ltd.	7,181	2,394		4,787
	2	Pt. 37	001-16101 D. McLeod	134	-		134
F	2	38	001-16200 Prehnbrook Farms Ltd.	7,757	2,586		5,171
	2	Pt 39	001-16300 R. Courtney	7,546	-		7,546
	2	Pt 39	001-16350 M. Humphrey	115	-		115
F	2	40	001-16400 M. Smeltzer	7,623	2,541		5,082
F	3	22	001-19100 B. Scott	3,648	1,216		2,432
F	3	21	001-19101 J. Scott	634	211		423
F	3	23,24	001-19200 S. Snobelen	13,210	4,403		8,807
F	3	25	001-19400 Snobelen Ag Inc.	7,757	2,586		5,171
F	3	Pt 26, 27	001-19500 Mike Snobelen Farms Ltd.	-	-		-
	3	Pt 26, 27	001-19501 Snobelen Farms Ltd.	576	-		576
F	3	Pt 26, 27	001-19510 S. Snobelen Trustee	14,382	4,794		9,588
	3	Pt 27	001-19601 G. Kavaloff	134	-		134
F	3	28	001-19700 533841 Ontario Ltd.	7,469	2,490		4,979
F	3	29	001-19800 Brucelea Poultry Farm Ltd.	7,584	2,528		5,056
F	3	30	001-19900 Brucelea Poultry Farm Ltd.	6,317	2,106		4,211
F	3	Pt 31	001-20000 B. Fry	1,939	646		1,293
F	3	Pt 31	001-20100 Brucelea Poultry Farm Ltd.	1,709	570		1,139
F	3	32	001-20200 J. Drzazga	2,573	858		1,715
F	3	33	001-20300 M. Ferguson	1,171	390		781
F	3	37	001-20900 Prehnbrook Farms Ltd.	806	269		537
F	3	38	001-21000 Prehnbrook Farms Ltd.	2,381	794		1,587
F	3	E½ 39	001-21100 M. Smeltzer	1,152	384		768
F	3	40, W½ 39	001-21200 M. Wilken	5,779	1,926		3,853
F	4	11, Pt 12	001-22500 Snobelen Ag Inc.	1,862	621		1,241
F	4	W½ 13	001-22600 B. Scott	768	256		512
F	4	E½ 13	001-22620 B. Scott	557	186		371
F	4	14	001-22700 B. Scott	2,016	672		1,344
F	4	15	001-22800 R. Blackwell	3,226	1,075		2,151
F	4	16	001-22801 Wanda Snobelen Ltd.	3,783	1,261		2,522
F	4	E½ 17	001-22900 S. Colling	1,862	621		1,241
F	4	18, W½ 17	001-23000 2450623 Ontario Limited	6,240	2,080		4,160
F	4	20	001-23200 Wehrmann Farms Ltd.	7,623	2,541		5,082
F	4	Pt 21	001-23300 T. & A. Mitchell Farms Inc.	7,527	2,509		5,018

**SCHEDULE C - SCHEDULE FOR ACTUAL COST BYLAW
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Gross Total (\$)	1/3 Grant (\$)	Allowance (\$)	NET (\$)
	4 Pt 21	001-23301	T. Bartley	230	-		230
F	4 22	001-23400	T. & A. Mitchell Farms Inc.	7,930	2,643		5,287
F	4 E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	19,316	6,439		12,877
	4 Pt 23	001-23501	L. Weerdenburg	115	-		115
F	4 Pt W½ 25	001-23700	J. Snobelen	3,207	1,069		2,138
F	4 Pt W½ 25	001-23720	B. Rawlings	288	96		192
	4 Pt 26	001-23800	Acciona Wind Energy Canada	787	-		787
F	4 Pt 26,27	001-23801	S. Snobelen	6,221	2,074		4,147
	4 Pt 27	001-23900	R. Forster	77	-		77
	4 Pt 27	001-24000	J. Kiernan	768	-		768
F	4 E½ 28	001-24100	533841 Ontario Ltd.	1,555	518		1,037
F	4 PtE½ 29,W½28	001-24200	533841 Ontario Ltd.	2,458	819		1,639
	4 Pt E½ 29	001-24201	H. Wardell	40	-		40
F	4 W½ 29	001-24300	Brucelea Poultry Farm Ltd.	691	230		461
	4 30	001-24400	Scottdale Poultry Farm Ltd.	230	77		153
F	5 Pt 7	002-00800	P. Schlegel	384	128		256
F	5 W½ 9	002-01100	Schwoba Farms Ltd.	1,920	640		1,280
F	5 10	002-01200	H. Schwarz	3,917	1,306		2,611
F	5 11	002-01300	M. Piel	7,757	2,586		5,171
F	5 E½ 12	002-01400	M. Piel	3,879	1,293		2,586
F	5 13, W½ 12	002-01500	Alton Century Farms Ltd.	11,444	3,815		7,629
	5 Pt 13	002-01510	M. Arndt	192	-		192
F	5 E½ 15, 14	002-01600	Rick Smith Farms Ltd.	11,309	3,770		7,539
F	5 W½ 15	002-01700	Rick Smith Farms Ltd.	3,610	1,203		2,407
F	5 16,17	002-01900	M. Smith	12,250	4,083		8,167
F	5 E½ 18	002-02000	M. Smith	2,515	838		1,677
F	5 Pt 19, W½ 18	002-02100	J. Drzazga	2,957	986		1,971
F	5 Pt 19, 20	002-02300	D. Gibson	8,391	2,797		5,594
F	5 Pt 20-22	002-02400	Schwoba Farms Ltd.	9,197	3,066		6,131
F	5 W½ 22	002-02600	533841 Ontario Ltd.	1,094	365		729
F	5 E½ 23	002-02700	S. Snobelen	1,018	339		679
F	5 W½ 23	002-02800	S. Snobelen	941	314		627
F	5 Pt 24	002-02950	S. Snobelen	1,632	544		1,088
F	5 Pt 25	002-03000	J. Snobelen	384	128		256
F	6 Pt 8	002-05701	P. D. Schlegel Limited	864	288		576
F	6 Pt 9, 10	002-05800	P. D. Schlegel Limited	5,799	1,933		3,866
F	6 Pt 11	002-05900	F. Martens-Oberwelland	192	64		128
F	6 E½ 12	002-06000	F. Martens-Oberwelland	346	115		231
F	6 W½ 12	002-06100	E. Piel	269	90		179
F	6 13	002-06200	E. Piel	230	77		153
F	L.R. 8,9,10	005-25500	D. Smeltzer	864	288		576
F	L.R. 11,12,13	006-01400	K. Elmes	48,180	16,060	9,900	22,220
F	L.R. Pt 13	006-04300	M. Smeltzer	27,823	9,274	5,500	13,049
F	L.R. Pt 14-17	006-05500	J. Lowry	3,879	1,293		2,586
F	L.R. Pt 14-17	006-05600	Prehnbrook Farms Ltd.	7,757	2,586		5,171
F	L.R. Pt 18	006-29800	W. Godfrey	2,323	774		1,549
F	L.R. Pt 19	006-29900	Lurganview Farms Inc.	1,171	390		781
Sub-Total (Lands):				508,044	154,423	15,400	338,221
Roads							
	South Baseline		Twp of Huron-Kinloss	1,805			1,805
	Sideroad 10 South		Twp of Huron-Kinloss	691			691
	Bruce Road 7		County of Bruce	1,171			1,171
	Sideroad 20 South		Twp of Huron-Kinloss	979			979
	Sideroad 25 South		Twp of Huron-Kinloss	1,123			1,123
	Sideroad 30 South		Twp of Huron-Kinloss	1,123			1,123
	Hwy # 21		MTO	1,459			1,459
	Concession 2		Twp of Huron-Kinloss	4,531			4,531
	Concession 4		Twp of Huron-Kinloss	3,573			3,573
	Concession 6 East		Twp of Huron-Kinloss	2,651			2,651
Sub-Total (Roads):				19,106	-	-	19,106
TOTAL FOR CLARK CREEK DRAIN 2015:				527,150	154,423	15,400	357,327

Notes:

- All of the above lands noted with an "F" are currently classified as agricultural according to OMAFRA and are therefore entitled to a 1/3 grant.
- All lands are in the geographic Township of Huron, in the Township of Huron-Kinloss
- Section 21 of the Drainage Act, RSO 1990 requires that assessments be shown opposite each parcel of land and road affected. The affected parcels of land have been identified using the roll number from the last revised assessment roll for the Township. For convenience only, the owners' names as shown by the last revised assessment roll, have been included.
- The value of the assessments identified in this schedule are estimates only, and should not be considered final.

**APPENDIX A - CALCULATION OF ASSESSMENTS
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

					Interval 1			
					-0+895±	To	1+321=A 1+661 ah'd	
					Allowances	\$	15,400	
					Construction	\$	298,600	
					Engineering	\$	185,000	
					Administration	\$	19,300	
					Net HST	\$	8,850	
TOTAL COST ESTIMATE					\$ 527,150			
Con	Lot	Roll No. (41-07-160-)	Owner(s)	Affected Area (ha)	Benefit \$	Adjusted Area (ha)	Outlet \$	Total
<u>Twp of Huron-Kinloss (Twp. Of Huron)</u>								
<u>Lands</u>								
1	Pts 72 & 73	001-05600	Amberley Farms Ltd.	15.4		15.40	2,957	2,957
1	Pts 74 & 75	001-05700	P. Hoeper	9.3		9.30	1,786	1,786
1	Pts 55-59	001-09500	Epsilon Farms Ltd.	21.0		21.00	4,032	4,032
1	Pt. 60	001-09700	C. Kleingarn	6.4		6.40	1,229	1,229
1	Pt 60	001-09701	C. Wiggermann	0.8		0.80	154	154
1	61	001-09800	C. Kleingarn	7.3		7.30	1,402	1,402
1	Pt 62-64	001-09900	Amberley Farms Ltd.	20.1		20.10	3,859	3,859
1	Pt 64	001-09950	K. Hoeper	1.3		1.30	250	250
1	Pt 65	001-10000	J. Courtney	10.5		10.50	2,016	2,016
1	Pt 66-68	001-10200	H. Geene	44.1		44.10	8,468	8,468
1	Pt 69	001-10300	Brucelea Poultry Farm Ltd.	19.1		19.10	3,667	3,667
1	Pt 69	001-10400	J. Arnold	0.4		0.40	77	77
1	70	001-10500	Brucelea Poultry Farm Ltd.	17.5		16.80	3,226	3,226
1	Pts 71 & 72	001-10600	I. Courtney	53.2		51.10	9,812	9,812
1	Pt 72	001-10800	W. Card	0.4		0.40	77	77
1	Pt 73-76	001-11000	M. Courtney	66.8		64.80	12,442	12,442
1	Pt 76, 77	001-11100	M. Courtney	26.7		26.30	5,050	5,050
1	Pt 77	001-11200	M. Courtney	0.7		0.70	134	134
1	Pt 78, 79	001-11300	M. Geene	40.4		40.40	7,757	7,757
1	Pt 80	001-11400	D. Schoenemann	0.8		0.80	154	154
1	Pt 80	001-11500	D. Smeltzer	18.2		18.20	3,495	3,495
2	25	001-14610	S. Snobelen	2.8		2.80	538	538
2	E½ 26	001-14700	M. Snobelen	0.0		0.00	0	0
2	W½ 26, 27	001-14800	S. Snobelen	35.3		35.30	6,778	6,778
2	E½ 29, 28	001-15000	817941 Ontario Ltd.	60.7		60.50	11,617	11,617
2	E½ 30, W½ 29	001-15100	V. Von Trips	40.4		39.00	7,488	7,488
2	W½ 30	001-15101	J. Courtney	20.2		18.10	3,475	3,475
2	31	001-15200	B. Fry	40.4		40.10	7,700	7,700
2	Pt 32, 33, 34	001-15300	V. Berghe Von Trips	97.5		97.30	18,683	18,683
2	Pt. 32	001-15310	M. Shaw	0.8		0.80	154	154
2	Pt. 34	001-15600	C. Boot	1.2		1.20	230	230
2	S½ 35	001-15700	J. Courtney	10.5		10.50	2,016	2,016
2	36	001-16000	M. Courtney	20.2		20.20	3,879	3,879
2	Pt 37	001-16100	Prehnbrook Farms Ltd.	37.4		37.40	7,181	7,181
2	Pt. 37	001-16101	D. McLeod	0.7		0.70	134	134
2	38	001-16200	Prehnbrook Farms Ltd.	40.4		40.40	7,757	7,757
2	Pt 39	001-16300	R. Courtney	39.7		39.30	7,546	7,546
2	Pt 39	001-16350	M. Humphrey	0.7		0.60	115	115
2	40	001-16400	M. Smeltzer	40.4		39.70	7,623	7,623
2	22	001-19100	B. Scott	19.0		19.00	3,648	3,648
3	21	001-19101	J. Scott	3.3		3.30	634	634
3	23,24	001-19200	S. Snobelen	68.8		68.80	13,210	13,210
3	25	001-19400	Snobelen Ag Inc.	40.4		40.40	7,757	7,757
3	Pt 26, 27	001-19500	Mike Snobelen Farms Ltd.	0.0		0.00	0	0
3	Pt 26, 27	001-19501	Snobelen Farms Ltd.	3.0		3.00	576	576
3	Pt 26, 27	001-19510	S. Snobelen Trustee	77.1		74.90	14,382	14,382
3	Pt 27	001-19601	G. Kavaloff	0.7		0.70	134	134
3	28	001-19700	533841 Ontario Ltd.	40.4		38.90	7,469	7,469
3	29	001-19800	Brucelea Poultry Farm Ltd.	40.4		39.50	7,584	7,584
3	30	001-19900	Brucelea Poultry Farm Ltd.	33.2		32.90	6,317	6,317
3	Pt 31	001-20000	B. Fry	10.1		10.10	1,939	1,939
3	Pt 31	001-20100	Brucelea Poultry Farm Ltd.	8.9		8.90	1,709	1,709

APPENDIX A - CALCULATION OF ASSESSMENTS
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Affected Area (ha)	Benefit \$	Adjusted Area (ha)	Outlet \$	Total
3	32	001-20200	J. Drzazga	13.4		13.40	2,573	2,573
3	33	001-20300	M. Ferguson	6.1		6.10	1,171	1,171
3	37	001-20900	Prehnbrook Farms Ltd.	4.2		4.20	806	806
3	38	001-21000	Prehnbrook Farms Ltd.	12.4		12.40	2,381	2,381
3	E½ 39	001-21100	M. Smeltzer	6.0		6.00	1,152	1,152
3	40, W½ 39	001-21200	M. Wilken	32.7		30.10	5,779	5,779
4	11, Pt 12	001-22500	Snobelen Ag Inc.	9.7		9.70	1,862	1,862
4	W½ 13	001-22600	B. Scott	4.0		4.00	768	768
4	E½ 13	001-22620	B. Scott	2.9		2.90	557	557
4	14	001-22700	B. Scott	10.5		10.50	2,016	2,016
4	15	001-22800	R. Blackwell	16.8		16.80	3,226	3,226
4	16	001-22801	Wanda Snobelen Ltd.	20.0		19.70	3,783	3,783
4	E½ 17	001-22900	S. Colling	9.7		9.70	1,862	1,862
4	18, W½ 17	001-23000	2450623 Ontario Limited	37.2		32.50	6,240	6,240
4	20	001-23200	Wehrmann Farms Ltd.	39.7		39.70	7,623	7,623
4	Pt 21	001-23300	T. & A. Mitchell Farms Inc.	39.2		39.20	7,527	7,527
4	Pt 21	001-23301	T. Bartley	1.2		1.20	230	230
4	22	001-23400	T. & A. Mitchell Farms Inc.	41.3		41.30	7,930	7,930
4	E½ 25,24,23	001-23500	Bruce Cattle Company Ltd.	100.6		100.60	19,316	19,316
4	Pt 23	001-23501	L. Weerdenburg	0.6		0.60	115	115
4	Pt W½ 25	001-23700	J. Snobelen	16.7		16.70	3,207	3,207
4	Pt W½ 25	001-23720	B. Rawlings	1.5		1.50	288	288
4	Pt 26	001-23800	Acciona Wind Energy Canada	4.1		4.10	787	787
4	Pt 26,27	001-23801	S. Snobelen	32.4		32.40	6,221	6,221
4	Pt 27	001-23900	R. Forster	0.4		0.40	77	77
4	Pt 27	001-24000	J. Kiernan	4.0		4.00	768	768
4	E½ 28	001-24100	533841 Ontario Ltd.	8.1		8.10	1,555	1,555
4	PtE½ 29,W½28	001-24200	533841 Ontario Ltd.	12.8		12.80	2,458	2,458
4	Pt E½ 29	001-24201	H. Wardell	0.2	2	0.20	38	40
4	W½ 29	001-24300	Brucelea Poultry Farm Ltd.	3.6		3.60	691	691
4	30	001-24400	Scottdale Poultry Farm Ltd.	1.2		1.20	230	230
5	Pt 7	002-00800	P. Schlegel	2.0		2.00	384	384
5	W½ 9	002-01100	Schwoba Farms Ltd.	10.0		10.00	1,920	1,920
5	10	002-01200	H. Schwarz	20.4		20.40	3,917	3,917
5	11	002-01300	M. Piel	40.4		40.40	7,757	7,757
5	E½ 12	002-01400	M. Piel	20.2		20.20	3,879	3,879
5	13, W½ 12	002-01500	Alton Century Farms Ltd.	59.6		59.60	11,444	11,444
5	Pt 13	002-01510	M. Arndt	1.0		1.00	192	192
5	E½ 15, 14	002-01600	Rick Smith Farms Ltd.	58.9		58.90	11,309	11,309
5	W½ 15	002-01700	Rick Smith Farms Ltd.	18.8		18.80	3,610	3,610
5	16,17	002-01900	M. Smith	63.8		63.80	12,250	12,250
5	E½ 18	002-02000	M. Smith	13.2		13.10	2,515	2,515
5	Pt 19, W½ 18	002-02100	J. Drzazga	15.4		15.40	2,957	2,957
5	Pt 19, 20	002-02300	D. Gibson	43.7		43.70	8,391	8,391
5	Pt 20-22	002-02400	Schwoba Farms Ltd.	47.9		47.90	9,197	9,197
5	W½ 22	002-02600	533841 Ontario Ltd.	5.7		5.70	1,094	1,094
5	E½ 23	002-02700	S. Snobelen	5.3		5.30	1,018	1,018
5	W½ 23	002-02800	S. Snobelen	4.9		4.90	941	941
5	Pt 24	002-02950	S. Snobelen	8.5		8.50	1,632	1,632
5	Pt 25	002-03000	J. Snobelen	2.0		2.00	384	384
6	Pt 8	002-05701	P. D. Schlegel Limited	4.5		4.50	864	864
6	Pt 9, 10	002-05800	P. D. Schlegel Limited	30.2		30.20	5,799	5,799
6	Pt 11	002-05900	F. Martens-Oberwelland	2.0		1.00	192	192
6	E½ 12	002-06000	F. Martens-Oberwelland	3.6		1.80	346	346
6	W½ 12	002-06100	E. Piel	2.8		1.40	269	269
6	13	002-06200	E. Piel	2.4		1.20	230	230
L.R.	8,9,10	005-25500	D. Smeltzer	4.5		4.50	864	864
L.R.	11,12,13	006-01400	K. Elmes	51.1	40,000	42.60	8,180	48,180
L.R.	Pt 13	006-04300	M. Smeltzer	15.8	25,000	14.70	2,823	27,823
L.R.	Pt 14-17	006-05500	J. Lowry	20.2		20.20	3,879	3,879
L.R.	Pt 14-17	006-05600	Prehnbrook Farms Ltd.	40.4		40.40	7,757	7,757
L.R.	Pt 18	006-29800	W. Godfrey	12.1		12.10	2,323	2,323
L.R.	Pt 19	006-29900	Lurganview Farms Inc.	6.1		6.10	1,171	1,171
Sub-Total (lands):				2,345.6	65,002	2,307.40	443,042	508,044

APPENDIX A - CALCULATION OF ASSESSMENTS
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Con	Lot	Roll No. (41-07-160-)	Owner(s)	Affected Area (ha)	Benefit \$	Adjusted Area (ha)	Outlet \$	Total
<u>Roads</u>								
			South Baseline					
			Twp of Huron-Kinloss	5.6		9.40	1,805	1,805
			Sideroad 10 South	2.4		3.60	691	691
			Twp of Huron-Kinloss					
			Bruce Road 7	3.6		6.10	1,171	1,171
			County of Bruce					
			Sideroad 20 South	3.4		5.10	979	979
			Twp of Huron-Kinloss					
			Sideroad 25 South	3.9		5.85	1,123	1,123
			Twp of Huron-Kinloss					
			Sideroad 30 South	3.9		5.85	1,123	1,123
			Twp of Huron-Kinloss					
			Hwy # 21	3.8		7.60	1,459	1,459
			MTO					
			Concession 2	11.8		23.60	4,531	4,531
			Twp of Huron-Kinloss					
			Concession 4	9.3		18.60	3,573	3,573
			Twp of Huron-Kinloss					
			Concession 6 East	6.9		13.80	2,651	2,651
			Twp of Huron-Kinloss					
Sub-Total (Roads):				54.6	0	99.50	19,106	19,106
TOTAL FOR CLARK CREEK DRAIN 2015:				2,400.2	65,002	2,406.90	462,148	527,150

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Table with columns for CLARK CREEK DRAIN - A DRAIN (Riffle, Interval 1-5) and CLARK CREEK DRAIN (Interval 1-5). Rows include 'INTERVAL COST ESTIMATE', 'TOTAL COST ESTIMATE', and a detailed list of 'Lands' with columns for Owner(s), Affected Area, and various assessment metrics.

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
 CLARK CREEK DRAIN 2021
 Township of Huron-Kinloss

		CLARK CREEK DRAIN - A DRAIN - Cont'd																			
		Interval 6				Interval 7				Interval 8				Interval 9				Interval 10			
		From	A7+914	To	A9+778	From	A9+778	To	A11+384	From	A11+384	To	A13+115	From	A13+115	To	A13+630	From	A13+630	To	A14+630
INTERVAL																					
COST ESTIMATE																					
Length of Drain		1866				1608				1727				517				1002			
Construction		28,000				24,100				25,900				7,800				15,000			
Net HST		495				425				455				135				265			
TOTAL COST ESTIMATE		28,495				24,525				26,355				7,935				15,265			
		CLARK CREEK DRAIN - Cont'd																			
		Interval 6				Interval 7				Interval 8				Interval 9				Interval 10			
Roll No.	Owner(s)	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%
(41-07-160-)																					
Twp of Huron-Kinloss (Twp. Of Huron)																					
Lands																					
001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-05700	P. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09950	K. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10600	I. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14610	S. Snobelen	0	2.80	51	0.18	0	2.80	54	0.22	0	0	0	0	0	0	0	0	0	0	0	0
001-14700	M. Snobelen	0	0.00	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14800	S. Snobelen	0	14.30	261	0.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15000	817941 Ontario Ltd.	1,000	4.70	86	3.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15100	V. Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15300	V. Berghé Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19100	B. Scott	0	19.00	347	1.22	500	19.00	366	3.53	0	0	0	0	0	0	0	0	0	0	0	0
001-19101	J. Scott	0	3.30	60	0.21	0	3.30	64	0.26	0	0	0	0	0	0	0	0	0	0	0	0
001-19200	S. Snobelen	0	68.80	1,255	4.40	3,900	56.60	1,092	20.35	0	0	0	0	0	0	0	0	0	0	0	0
001-19400	Snobelen Ag Inc.	0	40.40	737	2.59	1,550	27.30	527	8.47	0	0	0	0	0	0	0	0	0	0	0	0
001-19500	Mike Snobelen Farms Ltd.	1,800	0.00	0	6.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19501	Snobelen Farms Ltd.	0	3.00	55	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19510	S. Snobelen Trustee	1,800	73.20	1,336	11.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19601	G. Kavaloff	0	0.70	13	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19700	533841 Ontario Ltd.	1,850	12.60	230	7.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19800	Brucelea Poultry Farm Ltd.	200	3.90	71	0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20000	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20200	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21200	M. Wilken	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22500	Snobelen Ag Inc.	0	9.70	177	0.62	0	9.70	187	0.76	0	9.70	326	1.24	0	9.70	155	1.95	0	0	0	0
001-22600	B. Scott	0	4.00	73	0.26	0	4.00	77	0.31	0	4.00	134	0.51	0	4.00	64	0.81	0	0	0	0
001-22620	B. Scott	0	2.90	53	0.19	0	2.90	56	0.23	0	2.90	97	0.37	0	2.90	46	0.58	0	0	0	0
001-22700	B. Scott	0	10.50	192	0.67	0	10.50	203	0.83	0	10.50	353	1.34	0	10.50	168	2.12	0	0	0	0
001-22800	R. Blackwell	0	16.80	307	1.08	0	16.80	324	1.32	0	16.80	564	2.14	0	16.80	269	3.39	0	4.80	181	1.19
001-22801	Wanda Snobelen Ltd.	0	19.70	359	1.26	0	19.70	380	1.55	0	19.70	662	2.51	0	19.70	315	3.97	850	7.80	294	7.49
001-22900	S. Colling	0	9.70	177	0.62	0	9.70	187	0.76	0	9.70	326	1.24	0	9.70	155	1.95	850	3.20	121	6.36

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Table with columns: Roll No., Owner(s), Interval 6 (Benefit \$, Adjusted Area, Outlet \$, %), Interval 7 (Benefit \$, Adjusted Area, Outlet \$, %), Interval 8 (Benefit \$, Adjusted Area, Outlet \$, %), Interval 9 (Benefit \$, Adjusted Area, Outlet \$, %), Interval 10 (Benefit \$, Adjusted Area, Outlet \$, %). Rows include various land parcels and a summary for 'TOTAL FOR CLARK CREEK DRAIN 2015'.

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

Table with columns: INTERVAL, COST ESTIMATE, Length of Drain, Construction, Net HST, TOTAL COST ESTIMATE, CLARK CREEK DRAIN - Cont'd, Interval 11, Interval 12, Drain A Total, Branch B, Branch C, Roll No., Owner(s), Benefit \$, Adjusted Area, Outlet \$, %.

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

		CLARK CREEK DRAIN - Cont'd																			
Roll No. (41-07-160-)	Owner(s)	Interval 11				Interval 12				Drain A Total			Branch B					Branch C			
		Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Total Benefits	Total Outlets	Dr. A Total	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	
001-23000	2450623 Ontario Limited	0	0	0	0	0	0	0	0	3,350	4,328	7,678	0	0	0	0	0	0	0	0	
001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	1,700	4,564	6,264	0	0	0	0	0	0	0	0	
001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	1,350	4,507	5,857	0	0	0	0	0	0	0	0	
001-23301	T. Bartley	0	0	0	0	0	0	0	0	450	138	588	0	0	0	0	0	0	0	0	
001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	1,950	3,805	5,755	0	0	0	0	0	0	0	0	
001-23500	Bruce Cattle Company Ltd.	0	0	0	0	0	0	0	0	0	5,836	5,836	0	0	0	0	0	0	0	0	
001-23501	L. Weerdenburg	0	0	0	0	0	0	0	0	0	49	49	0	0	0	0	0	0	0	0	
001-23700	J. Snobelen	0	0	0	0	0	0	0	0	0	778	778	0	0	0	0	0	0	0	0	
001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	93	93	0	0	0	0	0	0	0	0	
001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	197	197	0	0	0	0	0	0	0	0	
001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	1,420	1,420	0	0	0	0	0	0	0	0	
001-23900	R. Forster	0	0	0	0	0	0	0	0	0	18	18	0	0	0	0	0	0	0	0	
001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	175	175	0	0	0	0	0	0	0	0	
001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	356	356	0	0	0	0	0	0	0	0	
001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	562	562	0	0	0	0	0	0	0	0	
001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	
001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	158	158	0	0	0	0	0	0	0	0	
001-24400	Scottsdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	53	53	0	0	0	0	0	0	0	0	
002-00800	P. Schlegel	0	2.00	187	0.56	0	2.00	215	1.60	0	738	738	0	0	0	0	0	0	0	0	
002-01100	Schwoba Farms Ltd.	0	10.00	934	2.78	0	10.00	1,075	8.00	0	3,695	3,695	0	0	0	0	0	0	0	0	
002-01200	H. Schwarz	0	20.40	1,904	5.67	0	20.40	2,192	16.32	0	7,536	7,536	0	0	0	0	0	0	0	0	
002-01300	M. Piel	1,900	30.20	2,819	14.05	0	0	0	0	1,900	9,251	11,151	0	0	0	0	0	0	0	0	
002-01400	M. Piel	950	14.00	1,307	6.72	0	0	0	0	950	4,472	5,422	0	0	0	0	0	0	0	0	
002-01500	Alton Century Farms Ltd.	2,600	42.60	3,977	19.59	0	0	0	0	2,600	13,262	15,862	0	0	0	0	0	0	0	0	
002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	
002-01600	Rick Smith Farms Ltd.	2,650	39.40	3,678	18.84	0	0	0	0	2,650	12,631	15,281	0	0	0	0	0	0	0	0	
002-01700	Rick Smith Farms Ltd.	950	7.60	709	4.94	0	0	0	0	950	3,281	4,231	0	0	0	0	0	0	0	0	
002-01900	M. Smith	0	0	0	0	0	0	0	0	1,000	8,226	9,226	0	0	0	0	0	0	0	0	
002-02000	M. Smith	0	0	0	0	0	0	0	0	0	1,508	1,508	0	0	0	0	0	0	0	0	
002-02100	J. Drzazga	0	0	0	0	0	0	0	0	0	1,770	1,770	0	0	0	0	0	0	0	0	
002-02300	D. Gibson	0	0	0	0	0	0	0	0	0	4,801	4,801	0	0	0	0	0	0	0	0	
002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	3,139	3,139	0	0	0	0	0	0	0	0	
002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	250	250	0	0	0	0	0	0	0	0	
002-02700	S. Snobelen	0	0	0	0	0	0	0	0	0	233	233	0	0	0	0	0	0	0	0	
002-02800	S. Snobelen	0	0	0	0	0	0	0	0	0	215	215	0	0	0	0	0	0	0	0	
002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	373	373	0	0	0	0	0	0	0	0	
002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	87	87	0	0	0	0	0	0	0	0	
002-05701	P. D. Schlegel Limited	0	4.50	420	1.25	0	4.50	484	3.60	0	1,663	1,663	0	0	0	0	0	0	0	0	
002-05800	P. D. Schlegel Limited	0	30.20	2,819	8.39	2,300	30.20	3,245	41.28	2,300	11,160	13,460	0	0	0	0	0	0	0	0	
002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	116	116	0	0	0	0	0	0	0	0	
002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	207	207	0	0	0	0	0	0	0	0	
002-06100	E. Piel	0	0	0	0	0	0	0	0	0	162	162	0	0	0	0	0	0	0	0	
002-06200	E. Piel	0	0	0	0	0	0	0	0	0	138	138	0	0	0	0	0	0	0	0	
005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	32	32	0	0	0	0	0	0	0	0	
006-01400	K. Elmes	0	0	0	0	0	0	0	0	3,100	304	3,404	0	0	0	0	0	0	0	0	
006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	1,800	105	1,905	0	0	0	0	0	0	0	0	
006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	144	144	0	0	0	0	0	0	0	0	
006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	288	288	0	0	0	0	0	0	0	0	
006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	86	86	0	0	0	0	0	0	0	0	
006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	43	43	0	0	0	0	0	0	0	0	
Sub-Total (lands):		9,050	205.70	19,202	84.12	2,300	67.10	7,211	70.80	61,250	172,769	234,019	15,350	72.70	28,510	100.00	14,750	128.90	26,475	97.85	
Roads																					
South Baseline - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	2,450	67	2,517	0	0	0	0	0	0	0	0	
Sideroad 10 South - Twp of Huron-Kinloss		4,450	3.60	336	14.24	1,400	0.9	97	11.15	5,850	1,041	6,891	0	0	0	0	0	0	0	0	
Bruce Road 7 - County of Bruce		0	0	0	0	0	0	0	0	1,950	815	2,765	0	0	0	0	0	0	0	0	
Sideroad 20 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	535	535	0	0	0	0	0	0	0	0	
Sideroad 25 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	3,300	195	3,495	0	0	0	0	0	0	0	0	
Sideroad 30 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	2,050	224	2,274	0	0	0	0	0	0	0	0	
Hwy # 21 - MTO		0	0	0	0	0	0	0	0	2,075	157	2,232	0	0	0	0	0	0	0	0	
Concession 2 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	5,275	631	5,906	0	0	0	0	4.40	905	2.15		
Concession 4 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	2,900	1,112	4,012	0	0	0	0	0	0	0	0	
Concession 6 East - Twp of Huron-Kinloss		0	5.80	542	1.64	1,800	5.80	622	18.05	1,800	2,603	4,403	0	0	0	0	0	0	0	0	
Sub-Total (Roads):		4,450	9.40	878	15.88	3,200	6.70	719	29.2	27,650	7,380	35,030	0	0	0	0	0	4.40	905	2.15	
TOTAL FOR CLARK CREEK DRAIN 2015:		13,500	215.10	20,080	100.00	5,500	73.80	7,930	100.00	88,900	180,149	269,049	15,350	72.70	28,510	100.00	14,750	133.30	27,380	100.00	

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
 CLARK CREEK DRAIN 2021
 Township of Huron-Kinloss

INTERVAL COST ESTIMATE	CLARK CREEK DRAIN - Cont'd																							
	Branch D				Branch E Interval 1				Branch E Interval 2				Branch E			Branch F				Branch G				
	0+000 To 0+792				0+792 To 1+184				Total			734				421								
Length of Drain	17,300				22,500				13,100				35,600			22,000				12,600				
Construction	305				395				230				625			385				220				
Net HST																								
TOTAL COST ESTIMATE	17,605				22,895				13,330				36,225			22,385				12,820				
	CLARK CREEK DRAIN - Cont'd																							
Roll No. (41-07-160-)	Owner(s)	Branch D				Branch E Interval 1				Branch E Interval 2				Total Benefits	Total Outlets	Dr. E Total	Branch F				Branch G			
		Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%				Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%
<u>Two of Huron-Kinloss (Two of Huron)</u>																								
<u>Lands</u>																								
001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-05700	P. Hooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-09500	Epsilon Farms Ltd.	0	0	0	0	21.00	4,005	17.49	3,700	21.00	5,943	72.34	3,700	9,948	13,648	0	0	0	0	0				
001-09700	C. Kleingarn	0	0	0	0	6.40	1,221	5.33	0	6.40	1,811	13.59	0	3,032	3,032	0	0	0	0	0				
001-09701	C. Wiggermann	0	0	0	0	0.80	153	0.67	0	0.80	226	1.70	0	379	379	0	0	0	0	0				
001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-09950	K. Hooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10600	I. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-14800	S. Snobelen	0	0	0	0	3.50	668	2.92	0	0	0	0	0	668	668	0	0	0	0	0				
001-15000	817941 Ontario Ltd.	0	0	0	0	25.00	4,768	20.83	0	0	0	0	0	4,768	4,768	0	0	0	0	0				
001-15100	V. Von Trips	0	1.10	170	0.97	5,350	17.00	3,242	37.53	0	0	0	5,350	3,242	8,592	0	0	0	0	0				
001-15101	J. Courtney	250	2.70	417	3.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-15200	B. Fry	1,550	11.60	1,790	18.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-15300	V. Berghé Von Trips	1,300	11.50	1,775	17.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.20	1,952	8.72	0				
001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,800	13.10	2,096	26.34				
001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,100	0	0	9.38				
001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-19900	Brucelea Poultry Farm Ltd.	800	28.5	4,397	29.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-20000	B. Fry	0	10.1	1,559	8.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-20100	Brucelea Poultry Farm Ltd.	0	8.9	1,373	7.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-20200	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-21200	M. Wilken	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22600	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22620	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22700	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22800	R. Blackwell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22801	Wanda Snobelen Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-22900	S. Colling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Roll No. (41-07-160-)	Owner(s)	CLARK CREEK DRAIN - Cont'd																								
		Branch H					Branch J					Branch K					Branch L					Branch M				
		Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%
001-23000	2450623 Ontario Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23301	T. Bartley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23500	Bruce Cattle Company Ltd.	0	13.50	3,247	48.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23501	L. Weerdenburg	0	0.60	144	2.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23700	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-23900	R. Forster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01400	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-01900	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02000	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02100	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02300	D. Gibson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02700	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-05701	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-05800	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,400	4.50	3,338	12.62	
002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.40	9,941	80.65	0	
002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-06100	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
002-06200	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total (lands):		1,800	16.10	3,872	84.46	10,350	28.50	15,495	100.00	2,550	10.60	4,775	100.00	6,400	37.70	11,410	100.00	11,400	17.90	13,279	93.27					
Roads																										
South Baseline - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sideroad 10 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bruce Road 7 - County of Bruce		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sideroad 20 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sideroad 25 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sideroad 30 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hwy # 21 - MTO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Concession 2 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Concession 4 - Twp of Huron-Kinloss		850	0.80	193	15.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Concession 6 East - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	1,781	6.73	0	
Sub-Total (Roads):		850	0.80	193	15.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	1,781	6.73	0	0	
TOTAL FOR CLARK CREEK DRAIN 2015:		2,650	16.90	4,065	100.00	10,350	28.50	15,495	100.00	2,550	10.60	4,775	100.00	6,400	37.70	11,410	100.00	11,400	20.30	15,060	100.00					

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

		CLARK CREEK DRAIN - Cont'd												PREHN DRAIN							
		Branch N				Branch P				Branch R				Branch S (Unknown)							
INTERVAL COST ESTIMATE																					
Length of Drain		7,365				6,200				26,400				18,200				22,100			
Construction		491				208				879				606				737			
Net HST						110				465				320				390			
TOTAL COST ESTIMATE		7,365				6,310				26,865				18,520				22,490			
		CLARK CREEK DRAIN - Cont'd												PREHN DRAIN							
		Branch N				Branch P				Branch R				Branch S (Unknown)							
Roll No. (41-07-160-)	Owner(s)	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%
<i>Twp of Huron-Kinloss (Twp. Of Huron)</i>																					
<i>Lands</i>																					
001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-05700	P. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09950	K. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10600	I. Courtney	0	0	0	0	0	0	0	0	1,200	5.40	3,739	18.38	0	0	0	0	0	0	0	0
001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11000	M. Courtney	0	0	0	0	0	0	0	0	4,500	13.40	9,280	51.29	0	0	0	0	0	0	0	0
001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15000	817941 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15100	V. Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15300	V. Berghé Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	3,500	0	0	18.9	0	0	0	0
001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16000	M. Courtney	0	0	0	0	0	20.20	3,810	60.38	0	0	0	0	0	0	0	0	0	0	0	0
001-16100	Prehnbrook Farms Ltd.	0	0	0	0	2,500	0	0	39.62	0	0	0	0	0	0	0	0	0	0	0	0
001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	1,550	0	0	5.77	0	0	0	0	0	0	0	0
001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.00	546	2.43
001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20000	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20200	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	3,000	12.60	12,020	81.1	0	0	0	0
001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00	182	0.81
001-21200	M. Wilken	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	28.80	5,242	23.53
001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22600	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22620	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22700	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22800	R. Blackwell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22801	Wanda Snobelen Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22900	S. Colling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Roll No. (41-07-160-)	Owner(s)	CLARK CREEK DRAIN - Cont'd												PREHN DRAIN							
		Branch N				Branch P				Branch R				Branch S (Unknown)				PREHN DRAIN			
		Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%	Benefit \$	Adjusted Area	Outlet	%
001-23000	2450623 Ontario Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23301	T. Bartley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23500	Bruce Cattle Company Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23501	L. Weerdenburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23700	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-23900	R. Forster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01400	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-01900	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02000	M. Smith	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02100	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02300	D. Gibson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02400	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02600	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02700	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-05701	P. D. Schlegel Limited	0	4.50	1,488	20.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-05800	P. D. Schlegel Limited	1,050	6.60	2,182	43.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-06100	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002-06200	E. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (lands):		1,050	11.10	3,670	64.08	2,500	20.20	3,810	100.00	7,250	18.80	13,019	75.44	6,500	12.60	12,020	100.00	3,600	80.00	14,561	80.76
Roads																					
South Baseline - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,600	4.00	729	19.24
Sideroad 10 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7 - County of Bruce		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 20 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 25 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 30 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hwy # 21 - MTO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 2 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	3,550	4.40	3,046	24.56	0	0	0	0	0	0	0	0
Concession 4 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 6 East - Twp of Huron-Kinloss		2,050	1.8	595	35.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total (Roads):		2,050	1.8	595	35.92	0	0	0	0	3,550	4.40	3,046	24.56	0	0	0	0	3,600	4.00	729	19.24
TOTAL FOR CLARK CREEK DRAIN 2015:		3,100	12.90	4,265	100.00	2,500	20.20	3,810	100.00	10,800	23.20	16,065	100.00	6,500	12.60	12,020	100.00	7,200	84.00	15,290	100.00

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

		REAVIE MUNICIPAL DRAIN																															
		Interval 1 Main Dr.			Interval 2 Main Dr.			Interval 3 Main Dr.			Interval 4 Main Dr.																						
INTERVAL	COST ESTIMATE	0+000	To	1+480	1+480	To	2+798	2+798	To	3+436	3+436	To	4+410	REAVIE MAIN DRAIN TOTAL																			
		19,725			22,620			9,645			47,420			99,410			13,025																
TOTAL COST ESTIMATE		19,725			22,620			9,645			47,420			99,410			13,025																
		REAVIE MUNICIPAL DRAIN																															
Roll No. (41-07-160-)	Owner(s)	Interval 1 Main Dr.					Interval 2 Main Dr.					Interval 3 Main Dr.					Interval 4 Main Drain																
		Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Benefit \$	Adjusted Area	Outlet	\$	%	Total Benefits	Total Outlets	Main Dr Total	Benefit \$	Adjusted Area	Outlet \$	%					
<i>Twp of Huron-Kinloss (Twp. Of Huron)</i>																																	
<i>Lands</i>																																	
001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-05700	P. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09701	C. Wiggermann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09950	K. Hoeper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10600	I. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15000	817941 Ontario Ltd.	400	0	0	2.03	0	0	0	0	0	0	0	0	0	0	0	0	400	0	0	400												
001-15100	V. Von Trips	400	1.20	65	2.36	0	0	0	0	0	0	0	0	0	0	0	0	400	65	465													
001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15300	V. Berghé Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19510	S. Snobelen Trustee	0	1.7	91	0.46	0	0	0	0	0	0	0	0	0	0	0	0	0	91	91													
001-19601	G. Kavaloff	0	0.00	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19700	533841 Ontario Ltd.	1,300	26.30	1,415	13.76	0	0	0	0	0																							

APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss

INTERVAL	REAVIE DR - Cont'd				SNOBELEN DRAIN				SMITH DRAIN				PAQUETTE DRAIN				
	A Branch				C Branch				Main Drain				Branch A				
COST ESTIMATE																	
Length of Drain	610				292				1969				2791				
Construction	18,300				8,800				59,100				41,900				
Net HST	320				155				1,040				735				
TOTAL COST ESTIMATE	18,620				8,955				60,140				42,635				
	REAVIE DR - Cont'd				SNOBELEN DRAIN				SMITH DRAIN				PAQUETTE DRAIN				
	A Branch				C Branch				Main Drain				Branch A				
Roll No. (41-07-160-)	Owner(s)	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%
<u>Two of Huron-Kinloss (Two of Huron)</u>																	
<u>Lands</u>																	
001-05600	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-05700	P. Hooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09500	Epsilon Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09700	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09701	C. Wiggemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09800	C. Kleingarn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09900	Amberley Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-09950	K. Hooper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10000	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10200	H. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10400	J. Arnold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10500	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10600	I. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-10800	W. Card	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11100	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11200	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11300	M. Geene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11400	D. Schoenemann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-11500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14610	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14700	M. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-14800	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15000	817941 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15100	V. Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15101	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15200	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15300	V. Bergh Von Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15310	M. Shaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15600	C. Boot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-15700	J. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16000	M. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16100	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16101	D. McLeod	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16200	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16300	R. Courtney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16350	M. Humphrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-16400	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19100	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19101	J. Scott	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19200	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19400	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19500	Mike Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19501	Snobelen Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19510	S. Snobelen Trustee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19601	G. Kavaloff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19700	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19800	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-19900	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20000	B. Fry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20100	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20200	J. Drzazga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20300	M. Ferguson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-20900	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21000	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21100	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-21200	M. Wilken	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
001-22500	Snobelen Ag Inc.	0	0	0	0	0	0	0	0	0	0	0	0	2,400	9.70	2,718	12
001-22600	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	800	4.00	1,121	4.51
001-22620	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	800	2.90	812	3.78
001-22700	B. Scott	0	0	0	0	0	0	0	0	0	0	0	0	1,650	10.50	2,942	10.77
001-22800	R. Blackwell	0	0	0	0	0	0	0	0	0	0	0	0	1,750	12.00	3,363	11.99
001-22801	Wanda Snobelen Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	1,800	11.90	3,335	12.04
001-22900	S. Colling	0	0	0	0	0	0	0	0	0	0	0	0	800	6.50	1,821	6.15

**APPENDIX B - CALCULATION OF ASSESSMENTS FOR FUTURE MAINTENANCE
CLARK CREEK DRAIN 2021
Township of Huron-Kinloss**

Roll No. (41-07-160-)	Owner(s)	REAVIE DR - Cont'd				SNOBELEN DRAIN				SMITH DRAIN				PAQUETTE DRAIN											
		A Branch		C Branch						Main Drain		Branch A													
		Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%	Benefit \$	Adjusted Area	Outlet \$	%				
001-23000	2450623 Ontario Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,150	4.90	1,373	5.92				
001-23200	Wehrmann Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23300	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23301	T. Bartley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23400	T. & A. Mitchell Farms Inc.	0	0	0	0	0	0	0	0	7,800	24.70	14,690	37.4	0	0	0	0	0	0	0	0				
001-23500	Bruce Cattle Company Ltd.	7,450	0	0	40.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23501	L. Weerdenburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23700	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23720	B. Rawlings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23800	Acciona Wind Energy Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23801	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-23900	R. Forster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24000	J. Kiernan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24100	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24200	533841 Ontario Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24201	H. Wardell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24300	Brucelea Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
001-24400	Scottdale Poultry Farm Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-00800	P. Schlegel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-01100	Schwoba Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-01200	H. Schwarz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-01300	M. Piel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.20	2,858	6.7	0				
002-01400	M. Piel	0	0	0	0	0	0	0	0	0	0.60	156	0.31	0	0.60	23	0.87	0	5.60	1,569	3.68				
002-01500	Alton Century Farms Ltd.	0	0	0	0	0	0	0	0	0	8.10	2,104	4.15	0	8.10	309	11.68	0	8.90	2,493	5.85				
002-01510	M. Arndt	0	0	0	0	0	0	0	0	0	1.00	260	0.51	0	1	38	1.44	0	0	0	0				
002-01600	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	15.50	4,026	7.94	0	15.50	591	22.34	0	4.00	1,121	2.63				
002-01700	Rick Smith Farms Ltd.	0	0	0	0	0	0	0	0	0	11.20	2,909	5.74	900	11.20	426	50.14	0	0	0	0				
002-01900	M. Smith	0	0	0	0	0	0	0	0	7,150	47.30	12,283	38.35	0	0	0	0	0	0	0	0				
002-02000	M. Smith	0	0	0	0	0	0	0	0	1,700	13.00	3,376	10.02	0	0	0	0	0	0	0	0				
002-02100	J. Drzazga	0	0	0	0	0	0	0	0	1,600	15.00	3,896	10.85	0	0	0	0	0	0	0	0				
002-02300	D. Gibson	0	0	0	0	0	0	0	0	750	8.90	5,293	10.05	0	3.2	831	1.64	0	0	0	0				
002-02400	Schwoba Farms Ltd.	0	0	0	0	2000	20.30	3,787	64.62	6,750	27.60	16,415	38.52	0	0	0	0	0	0	0	0				
002-02600	533841 Ontario Ltd.	0	0	0	0	1600	5.70	1,064	29.75	0	0	0	0	0	0	0	0	0	0	0	0				
002-02700	S. Snobelen	0	2.60	3,872	20.79	0	2.70	504	5.63	0	0	0	0	0	0	0	0	0	0	0	0				
002-02800	S. Snobelen	0	4.90	7,298	39.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-02950	S. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-03000	J. Snobelen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-05701	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-05800	P. D. Schlegel Limited	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
002-05900	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	1.00	260	0.51	0	1.00	38	1.44	0	0	0	0				
002-06000	F. Martens-Oberwelland	0	0	0	0	0	0	0	0	0	1.80	467	0.92	0	1.80	69	2.61	0	0	0	0				
002-06100	E. Piel	0	0	0	0	0	0	0	0	0	1.40	364	0.72	0	1.40	53	2	0	0	0	0				
002-06200	E. Piel	0	0	0	0	0	0	0	0	0	1.20	312	0.62	0	1.20	46	1.74	0	0	0	0				
005-25500	D. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-01400	K. Elmes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-04300	M. Smeltzer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-05500	J. Lowry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-05600	Prehnbrook Farms Ltd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-29800	W. Godfrey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
006-29900	Lurganview Farms Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Sub-Total (lands):		7,450	7.50	11,170	100.0	3,600	28.70	5,355	100.00	15,300	61.20	36,398	85.97	10,900	121.90	31,660	83.99	900	41.80	1,593	94.26	11,150	91.10	25,526	86.02
Roads																									
South Baseline - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 10 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bruce Road 7 - County of Bruce		0	0	0	0	0	0	0	0	0	0	0	0	6,350	2.80	727	13.96	0	0	0	0	5,500	1.65	459	13.98
Sideroad 20 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	7,550	1.50	892	14.03	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 25 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideroad 30 South - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hwy # 21 - MTO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 2 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 4 - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concession 6 East - Twp of Huron-Kinloss		0	0	0	0	0	0	0	0	0	4.00	1,038	2.05	0	4.00	152	5.74	0	0	0	0	0	0	0	0
Sub-Total (Roads):		0	0	0	0	0	0	0	0	7,550	1.50	892	14.03	6,350	6.80	1,765	16.01	0	4.00	152	5.74	5,500	1.65	459	13.98
TOTAL FOR CLARK CREEK DRAIN 2015:		7,450	7.50	11,170	100.0	3,600	28.70	5,355	100.00	22,850	62.70	37,290	100.00	17,250	128.70	33,425	100.00	900	45.80	1,745	100.00	16,650	92.75	25,985	100.00

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200 GENERAL CONDITIONS**200.1 SCOPE**

The work to be done under this contract consists of supplying all labour, equipment and materials to construct the drainage work as outlined in the Instructions to Tenderers, the Form of Tender and Agreement, the Schedule of Tender Prices, the Drawings, the General Conditions, Special Provisions and the Standard Specifications.

200.2 ORDER OF PRECEDENCE

In case of any inconsistency or conflict between the drawings and specifications, the following order of precedence shall apply: Addenda, Form of Tender and Agreement, Schedule of Tender Prices, Special Provisions, Contract Drawings, Standard Specifications, General Conditions.

200.3 MUNICIPALITY

Municipality refers to a municipal corporation in the Province of Ontario. Where reference to Township, County, Region, Town, City or Owner appears it shall be deemed to be the same as the word Municipality. Where reference to owner appears in the specifications it is usually in reference to the owner of the property on which the drain is being constructed.

200.4 TENDERS

Tenders are to be submitted on a lump sum basis for the complete works or a portion thereof, as instructed by the Municipality. The Schedule of Tender Prices must be completed and submitted with the Form of Tender and Agreement even though the Contract will be a lump sum. As outlined in the Instructions to Tenders a deposit in the form of a certified cheque, bank draft, bonding or irrevocable letter of credit must accompany each tender as a guarantee of good faith. The deposit shall name the Municipality as the payee. All deposits, except that of the Tenderer to whom the work is awarded, will be returned within 10 days of the time the contract is awarded. The certified cheque of the Tenderer awarded the work will be retained as Contract Security and returned with the Completion Certificate for the work. A Performance Bond may also be required to ensure maintenance of the work for a period of one year after the date of the Completion Certificate.

200.5 EXAMINATION OF SITE, PLANS AND SPECIFICATIONS

Prior to the submission of the Tender, the Tenderer must examine the premises and site to compare them with the Drawings and Specifications in order to be satisfied with the existing conditions and the extent of the work to be done. The Tenderer must ensure that the meaning and intent of the drawings, estimated quantities and specifications is clearly understood before submission of the Tender. No allowances shall be made on behalf of the Contractor by reason of any error made in the preparation of the tender submission.

Any estimates of quantities shown or indicated on the drawings or elsewhere in the tender document are provided for the convenience of the Tenderer. The Tenderer should check the estimate of quantities for accuracy. Any use made of the estimated quantities by the Tenderer in calculating the tendered amounts is done at the Tenderers risk.

200.6 COMMENCEMENT AND COMPLETION OF WORK

The work must commence immediately after the Tenderer is notified of the contract award or at a later date, if set out as a condition in the Form of Tender and Agreement. If weather and ground conditions are unsuitable, work may be started at a later date from either of the above two dates if such delay is approved by the Engineer. The Contractor shall provide a minimum of 48 hours advance notice to the Engineer and the Municipality before commencement of any work. The work must proceed in such manner as to ensure its completion at the earliest possible date consistent with first class workmanship and within the time limit set out in the tender/contract document. Failure to commence or complete the work as set out in the tender/contract document may result in a forfeiture of all or part of the Contract Security if the Engineer deems that damages have been sustained to the Municipality or to any landowner because of the non-commencement or non-completion of the contract as awarded and that the failure to meet the specified dates has been the fault of the Contractor.

200.7 NOTICES RE COMMENCEMENT OF WORK

If the Contractor leaves the job site for a period of time after initiation of work, a minimum of 48 hours advance notice shall be given to the Engineer and the Municipality before commencement of any further work. If any work is commenced without the advance notice the Contractor shall be fully responsible for all such work undertaken prior to such notification and shall make good any works or materials judged to be inadequate or constructed in any manner that may have been subject to alteration if made known to the Engineer prior to commencement of construction.

200.8 PERMITS, NOTICES, LAWS AND RULES

The Contractor shall apply and pay for all necessary permits or licenses required for the execution of the work. This shall not include the obtaining of permanent easements or rights or servitude. The Contractor shall give all necessary notices and pay all fees required by the law and comply with all laws, ordinances, rules and regulations relating to the work and to the preservation of the public's health and safety and if the specifications and drawings are at variance therewith, any resulting additional expense incurred by the Contractor shall constitute an addition to the contract price.

200.9 HEALTH AND SAFETY

Contractor must comply with the Occupational Health and Safety Act (OHSA) and the associated Regulations for Construction Projects. Contractor will also follow any site-specific safety and training requirements of the Municipality, agencies, utility companies or other authorities.

Communication about site-specific hazards and safety requirements shall occur at the pre-construction meeting. If no pre-construction meeting is conducted, Contractor will communicate site-specific hazards and safety requirements before beginning work.

Contractor shall immediately report any workplace incidents, near misses, injuries and occupational illnesses to the Engineer.

200.10 LIMITATIONS OF OPERATIONS

Except for such work as may be required by the Engineer to maintain the works in a safe and satisfactory condition, the Contractor shall not carry out operations under the contract on Sundays or Statutory Holidays without permission in writing from the Engineer. The Engineer may direct in writing to the Contractor to cease or limit operations under the contract on any day or days if the operations are of such a nature, or if the work is so located, or if the traffic is of such a volume, that the Engineer deems it necessary or expedient to do so.

200.11 SUPERVISION

The Contractor shall provide constant supervision of the construction work and shall keep a competent foreman in charge at the site.

200.12 CHARACTER AND EMPLOYMENT OF WORKERS

The Contractor shall employ only orderly, competent and skillful workers to do the work and shall give preference to available qualified residents in the area of the contract. Whenever the Engineer informs the Contractor in writing that any workers are, in the opinion of the Engineer, disorderly, incompetent, or breaking the law, such workers shall be discharged from the job site and shall not again be employed on the job site without the written consent of the Engineer.

200.13 SUB-CONTRACTORS

If the Municipality so directs, the Contractor shall not sublet the whole or any part of this contract without the approval of the Engineer.

200.14 PAYMENT

Progress payments in cash equal to about 90% of the value of the work done and materials incorporated in the work will be made to the Contractor monthly. If directed by the Engineer the Contractor may be required to provide a written request for the progress payment amount. An additional 7% will be paid 45 days after the date of the Completion Certificate by the Engineer and 3% of the contract price may be reserved by the Municipality as a maintenance holdback for one year from the date of the Completion Certificate.

The holdbacks noted above may be increased by the Municipality if, in the written opinion of the Engineer, particular conditions of the contract require such greater holdback.

After the completion of the work any part of maintenance holdback may be used to correct defects from faulty construction and/or materials provided that notice shall first be given by the Engineer in writing to the Contractor stating that the Contractor has seven (7) days in which to remedy the defect in construction and/or materials.

200.15 TERMINATION OF CONTRACT BY THE MUNICIPALITY

Termination of the contract by the Municipality may be considered if the Contractor:

1. should be adjudged bankrupt or make a general assignment for the benefit of creditors or if a receiver should be appointed on account of insolvency;
2. should refuse or fail to supply enough properly skilled workmen or proper materials after having received seven (7) days' notice in writing from the Engineer to supply such additional workmen or materials in order to commence or complete the works;
3. should fail to make prompt payment to sub-contractors or for materials or labour;
4. should persistently disregard laws, ordinances, or instructions from the Engineer, or otherwise be guilty of a substantial violation of the provisions of the contract;

then the Municipality, upon Certificate of the Engineer that sufficient cause exists to justify such action, may without prejudice to any other right or remedy, give written notice to the Contractor to terminate the employment of the Contractor and take possession of the premises, and of all materials, tools and appliances thereon, and may finish the work by whatever method the Municipality may deem expedient, but without undue delay or expense. In such case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price will exceed the expense of finishing the work including compensation to the Engineer for additional

services and including other damages of every name and nature, such excess shall be paid to the Contractor. If such expense will exceed such unpaid balance including the Contract Security, the Contractor shall pay the difference to the Municipality. The expense incurred by the Municipality, as herein provided, shall be certified by the Engineer. If the contract is terminated by the Municipality due to the Contractor's failure to properly commence the works, the Contractor shall forfeit the Contract Security and furthermore shall pay to the Municipality an amount to cover the increased costs, if any, associated with a new tender for the contract being terminated.

If any unpaid balance and the Contract Security do not equal the monies owed by the Contractor upon the termination of the contract, the Municipality may also charge such expenses against any money which is or may thereafter be due to the Contractor from the Municipality.

200.16 LIQUIDATED DAMAGES

It is agreed by the parties to the Contract that in case all the work called for under the Contract is not finished or complete within the period of time as set forth in the Tender/Contract Document, damage will be sustained by the Municipality. It is understood by the parties that it will be impracticable and extremely difficult to ascertain and determine the actual damage which the Municipality will sustain in the event of and by reason of such delay. The parties hereto agree that the Contractor will pay to the Municipality a sum as set out in the Form of Tender and Agreement for liquidated damages for each and every calendar day delay, including Saturdays, Sundays and Statutory Holidays, in finishing the work in excess of the number of working days prescribed. It is agreed that the liquidated damages amount is an estimate of the actual damage to the Municipality which will accrue during the period in excess of the prescribed number of working days.

The Municipality may deduct any amount due under this section from any monies that may be due or payable to the Contractor on any account whatsoever. The liquidated damages payable under this section are in addition to and without prejudice to any other remedy, action or other alternative that may be available to the Municipality.

The Contractor shall not be assessed with liquidated damages for any delay caused by acts of nature, or of the Public Enemy, Acts of the Province or of any Foreign State, Fire, Flood, Epidemics, Quarantine Restrictions, Embargoes or any delays of Sub-Contractors due to such causes.

If the time available for the completion of the work is increased or decreased by reason of alterations or changes made under the provisions of the Contract, the number of working days shall be increased or decreased as determined by the Engineer.

If the Form of Tender and Agreement does not show an amount for Liquidated Damages then Liquidated Damages do not apply for this contract.

200.17 CONTRACTOR'S LIABILITY

The Contractor and all workers, agents or any party under the Contractor's control, including Sub-Contractors, shall use due care that no person or property is injured and that no rights are infringed during the construction work outlined in the contract. The Contractor shall be solely responsible for all damages by whomsoever claimable in respect of any injury to persons or to lands, buildings, structures, fences, livestock, trees, crops, roadways, ditches, drains and watercourses, whether natural or artificial, or property of whatever description and in respect of any infringement of any right, privilege or easement wherever occasioned in the carrying on of the work or any part thereof, or by any neglect, misfeasance or non-feasance on the Contractor's part or on the part of any workers, agents or parties under the Contractor's control including Sub-Contractors, and shall bear the full cost thereof. The Contractor shall be fully responsible to make such temporary provisions as may be necessary to ensure the avoidance of any such damage, injury or infringement and to prevent the interruption of or danger or menace to the traffic in any railway or any public or private road entrance or sidewalk and to secure to all persons and corporations the uninterrupted enjoyment of all their

rights, in and during the performance of the work. The Contractor shall indemnify and save harmless the Municipality and the Engineer from and against all claims, demands, losses, costs, damages, actions, suits or other proceedings by whomsoever made, brought or prosecuted in any manner based upon, occasioned by, or attributed to any such damage, injury or infringement.

Wherever any work is of such an extent and nature that it must necessarily be confined to particular areas of a roadway, a working area, or private property, the Contractor shall use reasonable care not to damage or deface the remaining portions of the property, and if any damage is occasioned as a result of the Contractor's operations, it shall be rectified by and at the expense of the Contractor, to the satisfaction of the Engineer. Notwithstanding the indemnity provisions contained in this section, where in the opinion of the Engineer the Contractor has failed to rectify any damage, injury or infringement or has failed to adequately compensate any person for any damage, injury or infringement for which the Contractor is responsible under the contract, the Engineer, following notice in writing to the Contractor of an intention so to do, may withhold payment of any monies due the Contractor under this or any other contract until the Contractor has rectified such damage, injury or infringement or has paid adequate compensation for such damage, injury or infringement, provided however, that the Municipality will not withhold such monies where in the opinion of the Engineer there are reasonable grounds upon which the Contractor denies liability for such damage, injury or infringement and the Contractor has given the claimant a reasonable time in which to establish the validity of the claim, and provided further that the amount withheld under this section shall not exceed the amount of such claims against the Contractor.

Where the Contractor uses privately owned lands for pits or waste disposal areas, the Contractor shall comply with applicable laws and provide the Engineer with a release signed by or on behalf of the owner of each pit or waste disposal area used by the Contractor. If the said release is not obtained, then sufficient monies will be withheld from the Contractor except, however, where the owner's signature is withheld solely on the basis of damage, injury, or infringement it will be dealt with as provided elsewhere in this subsection.

Nothing herein contained shall be construed as in any way restricting or limiting the liability of the Contractor under the laws of the country, province or locality in which the work is being done. Neither the Completion Certificate nor final payment thereunder, nor any provision in the Contract Document shall relieve the Contractor from this liability.

200.18 LIABILITY INSURANCE

The Contractor shall take out and keep in force until the date of acceptance of the entire work by the Engineer, a comprehensive policy of public liability and property damage insurance providing insurance coverage of at least \$3,000,000 for each and every accident, exclusive of interest and cost, against loss or damage resulting from bodily injury to or death of one or more persons and loss of or damage to property and such policy shall where, and as requested by the Municipality, name the Municipality and the Engineer as an additional insured thereunder and shall protect the Municipality against all claims for all damage or injury including death to any person or persons and for damage to any property of the Municipality or any other public or private property resulting from or arising out of any act or omission on part of the Contractor or any of his servants or agents during the execution of the Contract.

200.19 LOSSES DUE TO ACTS OF NATURE, ETC.

All damage, loss, expense and delay incurred or experienced by the Contractor in the prosecution of the work, by reason of unanticipated difficulties, bad weather, strikes, wars, acts of nature, or other mischances, shall be borne by the Contractor and shall not be the subject of a claim for additional compensation.

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400 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF DRAINS

400.1 ABBREVIATIONS

- i) MTO means the Ministry of Transportation of Ontario.
- ii) ASTM means the American Society for Testing Materials.
- iii) CSA means the Canadian Standard Association.
- iv) OPSP means Ontario Provincial Standard Drawings
- v) OPSS means Ontario Provincial Standard Specifications
- vi) DFO means Fisheries and Oceans Canada
- vii) MNRF means Ministry of Natural Resources and Forestry
- viii) MECP means Ministry of Environment, Conservation and Parks

400.2 PRE CONSTRUCTION MEETING

The Contractor should arrange a pre-construction meeting with the Engineer, Municipality, affected landowners prior to commencement of construction.

If there is no pre-construction meeting or if a landowner is not present at the pre-construction meeting, the following shall apply. The drain is to be walked by the Contractor and each landowner prior to construction to ensure that both agree on the work to be done. Any difference of opinion shall be referred to the Engineer for decision. If the landowner is not contacted for such review, they are to advise the Engineer and/or Municipality.

400.3 COLD WEATHER

When working in cold weather is approved by the Engineer, the Contractor shall provide suitable means for heating, protection, and snow and ice removal. All work completed in cold weather conditions shall be to the satisfaction of the Engineer and any additional cost to remedy unsatisfactory work, or protect the work shall be borne by the Contractor. All backfilling operations shall be done as soon as possible to avoid backfilling with ground containing frozen particles. The Contractor will assume all responsibility for damages to any tile drains and for settlements or bank slippages that may result from work in cold weather.

400.4 WORKING AREA

Where any part of the drain is on a road allowance, the road allowance shall be the working area. For a closed drain the working area shall be a 10 metre width on either side of the trench or any combination not exceeding 20 metres. A 10m x 10m working area shall exist around any catchbasin, junction box or access point. For an open drain the working area shall be 17 metres on the side for leveling and 3 metres on the opposite side. A 10m working area shall exist for any overflow swale or grassed waterway. If any part of the drain is close to a property line then the fence line shall be one of the limits of the work area. Reduced or increased working areas will be described in detail on the Drawings.

400.5 ACCESS

The Contractor shall have access to the drain by entering the working area directly from road allowances or along access routes shown on the Drawings. All specifications governing fences, livestock and crops during drain construction apply to access routes. No other access routes shall be used unless first approved by the Engineer and the affected landowner. The Contractor shall contact each landowner prior to using the designated access routes. Contractor shall make good any damages caused by using the designated access routes.

400.6 ACCESS TO PROPERTIES ADJOINING THE WORK

The Contractor shall provide at all times and at no additional cost, adequate pedestrian access to private homes and commercial establishments unless otherwise authorized by the Engineer. Where interruptions to access have been authorized by the Engineer, reasonable notice shall be given by the Contractor to the affected landowners and such interruptions shall be arranged to minimize interference to those affected.

400.7 DRAINAGE SUPERINTENDENT

Where a Drainage Superintendent (Superintendent) is appointed by the Municipality, the Engineer may designate the Superintendent to act as the Engineer's representative. If so designated, the Superintendent will have the power to inspect and direct the execution of the work.

Any instructions given by the Superintendent which change the proposed work or with which the Contractor does not agree shall be referred to the Engineer for final decision.

400.8 ALTERATIONS TO WORK

The Engineer shall have the power to make alterations, additions and/or deletions in the work as shown or described in the Drawings or Specifications and the Contractor shall proceed to implement such changes without delay. Alterations ordered by the Engineer shall in no way render the contract void.

If a landowner desires deviations from the work described on the Drawings, the landowner shall submit a written request to the Engineer, at least 48 hours in advance of the work in question.

In every such case, the contract amount shall be increased or decreased as required according to a fair evaluation of the work completed. Where such changes involve additional work similar to items in the contract, the price for additional work shall be determined after consideration is given to the tendered price for similar items.

In no case shall the Contractor commence work considered to be extra work without the Engineer's approval. Payment for extra work is contingent on receipt of documentation to the satisfaction of the Engineer. Refer to the Extra Work Summary included in the Special Provisions.

400.9 ERRORS AND UNUSUAL CONDITIONS

The Contractor shall notify the Engineer immediately of any error or unusual conditions which may be found. Any attempt by the Contractor to correct the error without notice shall be done at the Contractor's risk. Any additional cost incurred by the Contractor to remedy an error or unusual condition without notice shall be borne by the Contractor. The Engineer shall direct the alteration necessary to correct errors or unusual conditions. The contract amount shall be adjusted in accordance with a fair evaluation of documentation for the work added, deleted or adjusted.

400.10 TESTS

The Engineer reserves the right to subject any materials to a competent testing laboratory for compliance with the standard. If any materials supplied by the Contractor are determined to be inadequate to meet the applicable standards, the Contractor shall bear full responsibility to remove and/or replace all such inadequate materials with materials capable of meeting the standards.

The cost of testing the materials supplied by the Contractor shall be borne by the Contractor.

400.11 BENCHMARKS AND STAKES

Prior to construction, the Engineer will confirm the benchmarks. The Contractor shall be held liable for the cost of replacing any benchmarks destroyed during construction.

If the Engineer provides layout stakes, the Contractor shall be held liable for the cost of replacing any layout stakes destroyed during construction.

Where property bars are shown on the Drawings, they are to be protected and if damaged by the Contractor, they will be reinstated by an Ontario Land Surveyor at the expense of the Contractor. Where property bars not shown on the Drawings are damaged, they will be reinstated by an Ontario Land Surveyor at the expense of the project.

400.12 OPENING UP OF FINISHED WORK

If ordered by the Engineer, the Contractor shall make such openings in the work as are needed to re-examine the work, and shall forthwith make the work good again. Should the Engineer find the work so opened up to be faulty in any respect, the whole of the expense of opening, inspecting and making the work good shall be borne by the Contractor. Should the Engineer find the work opened up to be in an acceptable condition the Contractor shall be paid for the expense of opening and making the work good, unless the Contractor has been obligated by any specification or by the direction of the Engineer to leave the work open for the Engineer's inspection.

400.13 FINAL INSPECTION

Final inspection by the Engineer will be made within twenty (20) days after receiving notice in writing from the Contractor that work is complete, or as soon thereafter as weather conditions permit. All the work included in the contract must at the time of final inspection have the full dimensions and cross-sections.

Prior to commencing the final inspection an on-site meeting may be held by the Engineer and landowners directly affected by the construction of the drain. The Contractor will attend this meeting upon notice by the Engineer.

If there is no on-site meeting with the Engineer and landowners, the Contractor shall obtain from each landowner a written statement indicating that the work has been performed to the owner's satisfaction. If the Contractor is unable to obtain a written statement from the landowner, the Engineer will determine if further work is required prior to issuing the Completion Certificate.

400.14 WARRANTY

There shall be a one-year warranty period on all completed work. The warranty period will commence on the date of the Completion Certificate.

When directed by the Engineer, the Contractor shall repair and make good any deficiencies in the work that may appear during the warranty period.

Before the work shall be finally accepted by the Municipality, the Contractor shall complete all work as directed by the Engineer and remove all debris and surplus materials and leave the work neat and presentable.

400.15 MATERIALS**400.15.1 Concrete Drain Tile**

Concrete drain tile shall conform to the requirements of the most recent ASTM C412 specifications for heavy duty extra quality, unless a stronger concrete tile is required by the Special Provisions or Drawings. All tile furnished shall be subject to the approval of the Engineer.

The minimum nominal lengths of the tile shall be 750mm for 150 to 350mm diameter tile and 1200mm for 400 to 900mm diameter tile.

All tile should be of good quality, free from distortions and cracks and shall meet the standards specified. The ends should be smooth and free from cracks or checks. All rejected tile are to be immediately removed from the site.

Granular backfill, where required, shall consist of approved sand or gravel having no particles retained on a screen having 50mm square openings.

Earth backfill shall consist of approved material having no large lumps or boulders.

400.15.2 Corrugated Plastic Tubing

Corrugated plastic tubing shall conform to the *Land Improvement Contractors of Ontario Standard Specification for Corrugated Plastic Drainage Tubing, 2006*. Type of material (solid or perforated) and need for filter sock will be specified on the Drawings or in the description of the work in the Special Provisions. Filter sock where specified shall be a standard synthetic filter material as provided by a recognized plastic tubing manufacturer unless noted differently on the contract drawings or elsewhere in the contract document. Protect coils of plastic tubing from damage and deformation.

400.15.3 Corrugated Steel Pipe

Corrugated Steel Pipe (CSP) shall be according to OPSS 1801 (CSA G401). Unless stated otherwise in the Special Provisions the pipe shall be:

- galvanized
- helical corrugation with lock seam and re-rolled annular ends
- 68mm x 13mm corrugation profile for diameters up to 1200mm
- 125mm x 25mm corrugation profile for diameters 1200mm and larger
- minimum wall thickness of 1.6mm for diameters up to 500mm
- minimum wall thickness of 2.0mm for diameters 600mm and larger
- joined using standard couplers matching the pipe diameter and material

Other coatings that may be specified include aluminized Type 2 or polymer. Polymer coating shall be a 254mm polymer film laminated to both sides of the pipe.

400.15.4 Plastic Pipe

Plastic Pipe shall be a high density polyethylene (HDPE) double wall corrugated pipe with smooth inner wall, solid with no perforations in accordance with OPSS 1840.

A minimum stiffness of 320 KPa at 5% deflection

The pipe shall be joined with snap-on or split couplers.

400.15.5 Concrete Sewer Pipe

Concrete sewer pipe shall be in accordance with OPSS 1820.

Non-reinforced concrete sewer pipe shall be used for pipe 375mm in diameter and smaller and reinforced concrete sewer pipe shall be used for pipe over 375mm.

Classes shall be as shown on the Contract Drawings or as described in the Form of Tender.

All new concrete sewer pipe shall have rubber-type gasket joints.

Where concrete sewer pipe “seconds” are specified, the pipe should exhibit no damage or cracks on the barrel section and shall be capable of satisfying the crushing strength requirements of OPSS 1820. The pipe may contain cracks or chips in the bell or spigot which prevent the use of rubber gaskets but the joints must be protected with filter cloth.

400.16 RIPRAP

All riprap is to be placed on a geotextile underlay (Terrafix 360R or equal) unless directed otherwise in the specific construction notes. The riprap is to be graded heavy angular stone (quarry stone is recommended) with particles averaging in size from 200mm to 300mm and is to be placed at 300mm thickness. Fine particles may be included to fill voids. Along upstream edges of riprap, where surface water will enter, underlay is to extend a minimum of 300mm upstream from riprap and then be keyed down a minimum of 300mm. Wherever riprap is placed, the area is to be over-dug so that finished top of riprap is at design cross-section, at design elevation or flush with existing ground.

400.17 GEOTEXTILE

To be non-woven fabric that is rot proof, non-biodegradable, chemically resistant to acidic or alkaline soils and is dimensionally stable under different hydraulic conditions. The filter fabric is to be a material whose primary function is to act as a highly permeable, non-clogging soil separator for fine soils (Terrafix 360R or equal). Contractor is to follow the manufacturer's recommendations for cutting, installation and precautions necessary to avoid damage to fabric. Other approved equals will be considered by the Engineer prior to construction.

400.18 DISPOSAL OF MATERIALS

The Contractor shall remove all surplus materials from the job site at the end of the project. The Contractor shall locate the disposal site for all materials to be disposed of. Disposal of materials shall comply with applicable regulations.

400.19 NOTIFICATION OF RAILROADS, ROAD AUTHORITIES AND UTILITIES

Contractor will notify any Railroad, Road Authority or Utility at least 48 hours in advance regarding work to be performed on their property or affecting their infrastructure. The notice will be in writing and is exclusive of Saturdays, Sundays and Holidays.

A utility includes any entity supplying the general public with necessities or conveniences.

400.20 WORKING IN ROAD ALLOWANCES**400.20.1 General**

Work within public road allowances shall be done in accordance with the Ontario Traffic Manual Book 7, latest edition.

400.20.2 Road Crossings

If no specific detail is provided for road crossings on the drawings or in the specifications the following shall apply:

- A Road Authority will supply no labour, equipment or materials for the construction of the road crossing.
- Contractor will not commence road crossing work until any required permits have been obtained. The Engineer may apply for any required permits prior to construction.
- Contractor will notify the Road Authority at least 72 hours in advance of any construction in the road allowance.
- Road crossings may be made with an open cut unless otherwise noted.
- Exact location of crossing shall be verified with the Road Authority and the Engineer.
- Pipe shall be placed on a minimum 150mm depth of Granular A shaped for the pipe.
- Pipe backfill shall be compacted Granular A and extend 300mm above the top of the pipe.
- Trench shall be backfilled with acceptable native material for the base width of the road bed.
- The material shall be placed in lifts not exceeding 300mm in depth and shall be thoroughly compacted with an approved mechanical vibrating compactor.
- Top 600mm of the road bed backfill shall consist of 450mm Granular B and 150mm of Granular A placed in lifts and fully compacted.
- Any surplus excavated material within the road allowance may be spread on the right-of-way with consent of the Road Superintendent otherwise the surplus material shall be hauled away.
- Existing asphalt or concrete pavement or surface treatment shall be replaced by the Contractor to the satisfaction of the Engineer and Road Authority.
- Contractor shall be responsible for correcting any backfill settlement during construction and during the warranty period. Upon approval of the road authority, surplus gravel shall be stockpiled near gravel road crossings to provide backfill for future trench settlement.
- All road crossings shall meet the approval of the Road Authority.
- If any road crossing is not left in a safe manner at the end of the working day barricades and warning signs shall be erected to guarantee the safety of the travelling public.
- If the Engineer deems a road to surface to have been damaged by the construction of a drain, either across or along the road, the Engineer may direct the Contractor to restore the road surface to existing or better condition at no additional cost.

400.20.3 Maintenance of Traffic

Unless directed otherwise on the drawings or in the specifications the Contractor shall keep the road open to traffic at all times. The Contractor shall provide suitable warning signs and/or flagging to the satisfaction of the Road Authority to notify of the construction work.

If a detour is required, the Contractor shall submit a proposal as to the details of the detour for approval by the Road Authority. If necessary to close the road to through traffic, the Contractor shall provide for and adequately sign the detour route. Contractor shall undertake all notifications required for a road closure in consultation with the Municipality.

400.21 LOCATIONS OF EXISTING UTILITIES

The position of pole lines, conduits, watermains, sewers and other underground and overhead utilities are not necessarily shown on the Contract Drawings, and, where shown, the accuracy of the position of such utilities and structures is not guaranteed. Before starting work, the Contractor shall have all utilities located in accordance with the Ontario Underground Infrastructure Notification System Act.

All utilities shall be exposed to the satisfaction of the utility company to verify that the construction proposed will not conflict with the utility structure. Additional payment will be allowed for relocation of utilities if conflicts should occur.

The Contractor is responsible for protecting all located and exposed utilities from damage during construction. The Contractor shall assume liability for damage caused to all properly located utilities.

400.22 LANEWAYS

If no specific detail is provided for laneway crossings on the Drawings or in the Specifications the following shall apply:

- Pipe backfill shall be acceptable native material that can be compacted in place.
- Top 450mm of laneway backfill shall consist of 300mm Granular B and 150mm of Granular A placed in lifts and fully compacted.
- Minimum cover on laneway culverts shall be 300mm.
- Existing asphalt or concrete pavement or surface treatment shall be replaced by the Contractor.
- The width of surface restoration shall match the existing laneway.
- Contractor shall be responsible for correcting any backfill settlement during construction and during the warranty period.

The timing of laneway closures will be coordinated by the Contractor to the satisfaction of the landowner.

400.23 EXISTING CROSSING CLEANOUT

Where the Special Provisions require an existing crossing to be cleaned, the Contractor shall provide a bottom width and depth that provides capacity equivalent to the capacity of the channel on either side. Excavated materials shall be hauled away unless adjacent landowners give permission for leveling. Care shall be taken to ensure that existing abutments or any portion of the structure are not damaged or undercut. The method of removing the material is to be pre-approved by the Engineer.

400.24 FENCES

If the Contractor is responsible to remove and install fences, the following shall apply:

- All fences removed by a Contractor are to be re-erected in as good a condition as existing materials permit.
- All fences shall be properly stretched and fastened. Where directed by the Engineer, additional steel posts shall be placed to adequately support a fence upon re-erection.
- Where practical and where required by the landowner, the Contractor shall take down an existing fence at the nearest anchor post and roll the fence back rather than cutting the fence and attempting to patch it.
- Where fence materials are in such poor condition that re-erection is not possible, the Contractor shall replace the fence using equivalent materials. Such fence material shall be approved by the Engineer and the landowner. Where the Engineer approves new fence material, additional payment will be provided.

Any fences paralleling an open drain, that are not line fences, that hinder the proper working of the excavating machinery for drain construction or maintenance shall be removed and rebuilt by the landowner at their own expense. If such parallel fences are line fences they shall be removed and reinstalled by the Contractor.

No excavated or cleared material shall be placed against fences.

The installation of all fences shall be done to the satisfaction of the Engineer and the landowner.

400.25 LIVESTOCK

If any construction will be within a fenced field containing livestock that are evident or have been made known to the Contractor, the Contractor shall notify the owner of the livestock 48 hours in advance of access into the field. Thereafter, the owner shall be responsible for the protection of the livestock in the field during construction and shall also be liable for any damage to or by the livestock.

Where the owner so directs or where the Contractor has failed to reach the owner, the Contractor shall adequately re-erect all fences at the end of each working day. No field containing livestock shall have a trench left open at the end of the working day, unless the trench has been adequately backfilled or protected. Failure of the Contractor to comply with this paragraph shall render the Contractor liable for any damage to or by the livestock.

Where livestock may be encountered on any property the Contractor shall notify the Engineer to arrange for inspection of the work prior to backfilling.

400.26 STANDING CROPS

The Contractor shall not be held responsible for damages to standing crops within the working area for the drain. However, the Contractor shall notify the owner of the crops 48 hours prior to commencement of construction so as to allow the owner an opportunity to harvest or salvage the crop within the drain working area. If this advance notice is not given the Contractor may be liable for the loss of the standing crops.

400.27 CLEARING VEGETATION

400.27.1 General

The area for clearing, if not defined elsewhere, shall be 15m on each side of the drain.

400.27.2 Trees to Remain

Where it is feasible to work around existing trees that do not impede the function of the drainage works, the Contractor shall not remove any deciduous tree larger than 300mm and any coniferous tree larger than 200mm, unless authorized by the Engineer.

400.27.3 Incidental Clearing

Incidental clearing includes removal of trees, brush or other vegetation with an excavator during construction activities, and the cost is to be included in the price for the related construction activity.

400.27.4 Power Brushing

Power brushing includes removal of above-ground vegetation with a rotary brush cutter or other mechanical means. Stump and root removal is not required. Power brushed vegetation in a channel cross-section shall be removed and leveled in the working area. Excavated material may be placed and leveled on power brushed vegetation.

400.27.5 Close-Cut Clearing

Close-cut clearing includes removal of above-ground vegetation cut flush with the ground. Stump and root removal is not required.

400.27.6 Clearing And Grubbing

Clearing and grubbing includes removal of vegetation, including stumps and roots. Removal of earth from the grubbed area into the windrows or piles is to be minimized.

400.27.7 Disposal of Cleared Vegetation**400.27.7.1 In Bush Areas**

Cleared vegetation is to be pushed into windrows or piles at the edge of the cleared area. Stumps and roots are to be piled first at the edge of the cleared area, followed by other vegetation (trunks, branches, etc.). Provisions for lateral drainage are required through all windrows. Windrows are not to block any laneways or trails. After removing cleared vegetation, the working area shall be leveled to the satisfaction of the Engineer.

400.27.7.2 In Field Areas

Cleared vegetation resulting from incidental clearing or power brushing may be hauled away, mulched in place or reduced to a size that permits cultivation using conventional equipment without causing undue hardship on farm machinery.

Cleared vegetation resulting from close-cut clearing or clearing and grubbing is to be hauled away to an approved location. Disposal sites may be in bush areas or other approved locations on the same farm. No excavated material shall be levelled over any logs, brush or rubbish of any kind.

400.27.8 Landowner Requested Salvage

A landowner may request that wood be separated from the windrows for the landowner's future use. This additional work would be eligible for extra payment, subject to the approval of the Engineer. The cost of the additional work would be assessed to the landowner.

400.27.9 Clearing by Landowner

Wherever the Special Provisions indicate that clearing may be undertaken by the landowner, work by the landowner shall be in accordance with the Clearing Vegetation requirements of this specification and must be completed so as not to cause delay for the Contractor. If the landowner does not complete clearing in accordance with these requirements, the Contractor will undertake the clearing at a price approved by the Engineer.

400.28 ROCK REMOVAL**400.28.1 General**

Rock shall be defined as bedrock and boulders that are greater than one-half cubic metre in size and that require blasting or hoe-ram removal. Bedrock or boulders that can be removed with a standard excavator bucket are not considered rock removal.

400.28.2 Blasting Requirements

All blasting shall be performed by a competent, qualified blaster in accordance with OPSS 120. Blasting mats are required. A pre-blast survey meeting the requirements of OPSS 120 must be completed for any structure within 200m of any blasting. The cost for pre-blast survey shall be included in the tender price for rock removal.

400.28.3 Typical Sections and Pay Limits

For tile drains and road culverts, rock shall be removed to 150mm below the proposed grade shown on the profile so that pipes are not in direct contact with rock. The width of rock removal shall be 1m minimum or the diameter of the pipe plus 600mm.

For open drains, rock removal shall match the proposed grade and bottom width shown on the Drawings. Side slopes shall be vertical or sloped outward. Side slopes shall be free of loose rock when excavation is completed.

Payment for the quantity of rock removed will be based on the typical sections described in these specifications and confirmed by field measurements. There will be no payment for overbreak.

400.28.4 Disposal of Rock

Excavated rock shall be piled at the edge of the working area at locations designated by the landowner. The cost to pile excavated rock shall be included in the tender price for rock removal. If the Special Provisions or the landowner require excavated rock to be hauled away, additional payment will be considered.

Where approved by the Engineer, excavated rock may be used in place of imported riprap.

400.29 SEEDING

400.29.1 General

Contractor responsible for re-seeding as necessary for uniform catch during warranty period. Areas that remain grassed after construction may not need to be seeded unless directed otherwise by the Engineer.

400.29.2 Drainage Works and Road Allowances

All disturbed ditch banks, berms and road allowances are to be seeded at the end of the day.

The following seed mixture shall be applied at 60kg/ha using a mechanical (cyclone) spreader:

- 35% Creeping Red Fescue
- 25% Birdsfoot Trefoil
- 25% Kentucky Bluegrass
- 10% Cover Crop (Oats, Rye, Barley, Wheat)
- 5% White Clover

Provide temporary cover for late fall planting by adding an additional 10 kg/ha of rye or winter wheat.

400.29.3 Hydroseeding

Where hydroseeding is specified, disturbed areas will be restored by the uniform application of a standard roadside mix, fertilizer, mulch and water at a rate of 2,000 kg/ha and be in accordance with OPSS 804.

400.29.4 Seeding Lawns

Unless specified otherwise, lawn areas shall be seeded with Canada No. 1 lawn grass mixture applied at 300 kg/ha using a mechanical (cyclone) spreader on 100mm of topsoil. Fertilizer shall be 5:20:20 or 10:10:10 applied at 300 kg/ha. Seed and fertilizer shall be applied together. Contractor shall arrange for watering with landowners.

400.29.5 Sod

Where sod is specified, sod is to be commercial grade turfgrass nursery sod, Kentucky Bluegrass placed on 50mm of topsoil. Fertilizer shall be 5-20-20 applied at 10kg/ha. Place sod in accordance with supplier instructions. Contractor is responsible for saturating the sod with water on the day of sod placement. Subsequent watering is the responsibility of the landowner.

400.30 EROSION CONTROL BLANKETS

Erosion Control Blankets (ECB) shall be biodegradable and made of straw/coconut (Terrafix SC200, Nilex SC32 or equal) or coconut (Terrafix C200, Nilex C32 or equal) with photodegradable, double net construction. The blanket and the staples shall be supplied and installed as per OPSS 804.

Erosion control blanket shall be placed and stapled into position as per the manufacturer's installation instructions on slopes as directed by the Engineer. Blankets shall be installed in direct contact with the ground surface to form a uniform, cohesive mat over the seeded earth area. The blankets are to be single course with 150mm overlap between blankets and joints are to be staggered. The Contractor shall ensure that the ECB is anchored to the soil and that tenting of the ECB does not occur.

On slopes, when the ECB cannot be extended 1m beyond the crest of the slope, the uppermost edge of the ECB shall be anchored in a 150mm wide by 150mm deep trench. The trench shall be backfilled with earth and compacted.

400.31 SEDIMENT CONTROL**400.31.1 General**

Contractor shall install sediment control features at the downstream limits of the project and at other locations as shown on the drawings or directed by the Engineer.

Sediment control features shall be installed prior to any excavation taking place upstream of that location. The Contractor shall maintain all sediment control features throughout construction and the warranty period.

Sediment that accumulates during construction shall be removed and levelled as required.

400.31.2 Flow Check Dams**400.31.2.1 Temporary Straw Bale Flow Check Dam**

The straw bale flow check dam shall consist of a minimum of 3 bales. Each bale is to be embedded at least 150mm into the channel bottom and shall be anchored in place with 2 T-bar fence posts or 1.2m wooden stakes driven through the bale.

Straw bales shall be hauled away at the end of the warranty period. Accumulated sediments shall be excavated and levelled when the temporary straw bale flow check dam is removed.

400.31.2.2 Temporary Rock Flow Check Dam

The temporary rock flow check dam shall extend to the top of the banks so that dam overtopping does not cause bank erosion. Rock shall be embedded a minimum of 150mm into the ditch bottom and banks. No geotextile is required for temporary rock flow check dams.

Accumulated sediments shall be excavated and levelled when the temporary rock flow check dam is removed at the conclusion of the warranty period.

400.31.2.3 Permanent Rock Flow Check Dam

The requirements of temporary rock flow check dams shall apply except rock shall be placed on geotextile and the dam shall remain in place permanently.

400.31.3 Sediment Traps**400.31.3.1 General**

The channel bottom shall be deepened in accordance with the dimensions provided in the Drawings or Special Provisions. If dimensions are not specified on the Drawings, the sediment trap shall be excavated within the channel cross-section at least 0.3m below the design grade.

The Contractor will monitor the sediment trap during construction and cleanout accumulated sediments as required to maintain the function of the sediment trap.

If specified to be temporary, no sediment trap maintenance is required after construction is complete.

If specified to be permanent, the contractor will clean out the sediment trap at the conclusion of the warranty period, unless directed otherwise by the Engineer.

400.31.3.2 Sediment Trap with Flow Check Dam

A permanent rock sediment trap shall include a permanent sediment trap and a rock flow check dam.

A temporary rock/straw sediment trap shall include a temporary sediment trap and a rock/straw flow check dam.

400.31.4 Turbidity Curtains

A turbidity curtain is required when there is permanent water level/flow and a sediment trap is not feasible.

Turbidity curtains shall be in accordance with OPSS 805 and installed per manufacturer's instructions.

Turbidity curtains shall be sized and anchored to ensure the bottom edge of the curtain is continuously in contact with the waterbody bed so that sediment passage from the enclosed area is prevented. The curtain must be free of tears and capable of passing the base flow from the drainage works. Turbidity curtain locations may be approved by the Engineer.

Turbidity curtains are to remain functional until work in the enclosed area is completed. Prior to relocating or removing turbidity curtains, accumulated sediment is to be removed from the drain and levelled.

Where a turbidity curtain remains in place for more than two weeks it shall be inspected for damage or clogging and replaced, repaired or cleaned as required.

400.31.5 Silt Fence

Silt fence shall be in accordance with OPSS 805.07.02.02 and OPSD 219.110 (light-duty).

400.32 GRASSED WATERWAYS AND OVERFLOW SWALES

Grassed waterways and overflow swales typically follow low ground along the historic flow route. The cross-section shall be saucer shaped with a nominal 1m bottom width, 8:1 side slopes and 300mm depth unless stated otherwise in the Special Provisions.

All grassed waterways are to be permanently vegetated. Grassed waterways shall be seeded with the following permanent seed mixture: 50% red fescue, 45% perennial ryegrass and 5% white clover, broadcast at 80 kg/ha. Fertilizer to be 7-7-7 applied at 80 kg/ha.

Provide temporary cover for late fall planting by adding an additional 10 kg/ha of rye or winter wheat.

Overflow swales may be cropped using conventional farming practice.

400.33 BUFFER STRIPS

Open drains shall include minimum 3m wide, permanently vegetated buffer strips on each side of the drain. Catchbasins shall include a minimum 1m radius, vegetated buffer strip around the catchbasin.

Cultivation of buffer strips using conventional farming practice may be undertaken, provided sediment transport into the drain is minimized.

400.34 MAINTENANCE CORRIDOR

The maintenance corridor along the route of the drain, as established in the report, shall be kept free of obstructions, ornamental vegetation and structures. When future maintenance is undertaken, the cost of removing such items from the corridor shall be assessed to the landowner.

400.35 POLLUTION

The Contractor shall keep their equipment in good repair. The Contractor or any landowner shall not spill or cause to flow any polluted material into the drain that is not acceptable to the MECP. The local MECP office and the Engineer shall be contacted if a polluted material enters the drain. The Contractor shall refill or repair equipment away from open water. If the Contractor causes a spill, the Contractor is responsible to clean-up the spill in accordance with MECP clean-up protocols.

400.36 SPECIES AT RISK

If a Contractor encounters a known Species At Risk designated by the MECP, MNRF or DFO, the Contractor shall notify the Engineer immediately and follow the Ministry's guidelines for work around the species.

STANDARD SPECIFICATIONS

FOR

OPEN DRAINS

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410.1 DESCRIPTION

Work under this item shall include the supply of labour, equipment and materials required for: channel excavation to the cross-section specified, leveling or disposal of all excavated material (spoil) as directed, reconstruction of all intercepted drains as required and any other items related to open drain construction as required by the Schedule of Tender Prices, Special Provisions or the Drawings.

410.2 MATERIALS

Refer to Section 400, Standard Specifications for Drain Construction for any materials required for open drain construction.

410.3 CONSTRUCTION**410.3.1 Excavation**

The bottom width and the side slopes of the ditch shall be as shown on the profile drawing. If the channel cross-section is not specified in the Special Provisions it shall be a 1m bottom width with 1.5m horizontal to 1m vertical (1.5:1) bank slope. At locations along the drain where the specified side slopes change there shall be a transitional length of not less than 5m between the varying side slopes. At locations along the drain where the specified bottom width changes there shall be a transitional length of not less than 5m. In all cases there shall be a smooth transition between changes in any part of the channel cross-section. Where the bottom width of the existing ditch matches the specified bottom width, ditch excavation shall be completed without disturbing existing banks.

410.3.2 Low Flow Channels

Unless specified otherwise in the Special Provisions, all intermittent open drains with a bottom width greater than 1.8m and a grade less than 0.07%, shall have a low flow channel. The bottom of the low flow channel shall be the grade shown on the profiles.

The low flow channel shall have a U-shaped cross-section with an average top width of 0.5m and a minimum depth of 0.3m. The low flow channel will not be seeded and may meander along the main channel bottom provided it remains at least .3m from the toe of main channel bank slope.

410.3.3 Line

The drain shall be constructed according to the alignment shown on the drawings or shall follow the course of the existing ditch. All bends shall have a minimum inside radius of 2m. There shall be a smooth transition between changes in the channel alignment. The Contractor shall contact the Engineer before removing any bends or irregularities in an existing ditch.

410.3.4 Grade Control

The profile shows the grade line for the bottom of the ditch. Cuts may be shown on the profile from the existing top of bank and/or from the existing ditch bottom to the new ditch bottom. These cuts are shown for the convenience of the Contractor and are not recommended for quantity estimate or grade control. Accurate grade control must be maintained by the Contractor during ditch excavation. The ditch bottom elevation should be checked every 50 metres and compared to the elevation on the profile.

Benchmarks are identified on the Contract Drawings. The Engineer will confirm all benchmark elevations prior to construction.

410.3.5 Variation from Design Grade

A variation of greater than 25mm above the design grade line may require re-excavation. Excavation below design grade up to 150mm is recommended so that sediment accumulation during or following excavation will not place the ditch bottom above the design grade at completion. Under some circumstances the Engineer may direct that over excavation greater than 200mm will have to be backfilled. No additional payment will be made if backfilling is required to remedy over excavation.

410.3.6 Excavated Material

Excavated material (spoil) shall be deposited on either or both sides of the drain within the specified working area as directed in the Special Provisions. The Contractor shall verify the location for the spoil with each landowner before commencing work on their property. If not specified, spoil shall be placed on the low side of the ditch or opposite trees and fences. The spoil shall be placed a minimum 1m from the top of the bank. No excavated material shall be placed in tributary drains, depressions, or low areas such that water is trapped behind the spoil bank. Swales shall be provided through the leveled or piled spoil at approximately 60m intervals to prevent trapping water behind the spoil bank.

The excavated material shall be placed and leveled to a maximum depth of 250mm; unless otherwise instructed. If excavating more than 450mm topsoil shall be stripped, stockpiled separately and replaced over the leveled spoil, unless stated otherwise in the Special Provisions. The edge of the spoil bank furthest from the ditch shall be feathered down to existing ground. The edge of the spoil bank nearest the ditch shall have a maximum slope of 2:1. The material shall be leveled such that it may be cultivated with conventional equipment without causing undue hardship on farm machinery.

Wherever clearing is necessary prior to leveling, the Contractor shall remove all stumps and roots from the working area. No excavated material shall cover any logs, brush or rubbish of any kind. Large stones in the leveled spoil that are greater than 300mm in diameter shall be moved to the edge of the spoil bank nearest to the ditch but in general no closer than 1m to the top of bank.

Lateral channels that outlet into the drain shall be tapered over a distance of 10m to match the grade of drain excavation. No additional payment will be made for this work.

Where the elevation difference between the lateral channel and the drain is greater than 450mm, a rock chute or similar bank protection approved by the Engineer shall be provided. Additional payment may be allowed for this work.

Where it is specified to straighten any bends or irregularities in the alignment of the ditch or to relocate any portion of an existing ditch, the excavation from the new cut shall be used for backfilling the original ditch. Regardless of the distance between the new ditch and old ditch, no additional payment will be allowed for backfilling the existing ditch.

The Contractor shall contact the Engineer if a landowner indicates in writing that spoil on the owner's property does not need to be leveled. The Engineer may release the Contractor from the obligation to level the spoil and the Engineer shall determine the credit to be applied to the Contractor's payment. No additional compensation is provided to the owner if the spoil is not leveled.

The Engineer may require the Contractor to obtain written statements from any or all of the landowners affected by the leveling of the spoil. Final determination on whether or not the leveling of spoil meets the specification shall be made by the Engineer.

410.3.7 Excavation at Existing Bridge and Culvert Sites

The Contractor shall excavate the drain to the specified depth under all bridges and to the full width of the structure unless specified otherwise in the Special Provisions. All necessary care and precautions shall be taken to protect permanent structures. Temporary bridges may be removed and left on the bank of the drain. In cases where the design grade line falls below the top of footings, the Contractor shall take care to not over-excavate below the grade line. The Contractor shall notify the Engineer if excavation of the channel exposes the footings of the bridge or culvert, so the Engineer can make an evaluation.

The Contractor shall clean through all pipe culverts to the grade line and width specified on the profile. The Contractor shall immediately contact the Engineer after a culvert cleanout if it is found that the culvert bottom is above the grade line or where the structural integrity of the culvert is questionable.

Material resulting from cleanout through bridges or culverts shall be levelled on the adjacent private lands or hauled offsite at the expense of the bridge/culvert owner.

410.3.8 Bridges and Culverts

The size and material for any new ditch crossings shall be as outlined in the Special Provisions.

For culvert installation instructions, refer to the General Specifications for Drain Construction and the Drawings.

Any crossings assembled on-site shall be assembled in accordance with the manufacturer's specifications.

If directed on the drawings that the existing crossing is to be salvaged for the owner, the Contractor shall carefully remove the existing crossing and place it beside the ditch or haul to a location as specified by the owner. If the existing crossing is not to be saved then the Contractor shall remove and dispose of the existing crossing. Disposal by burying on-site must be approved by the Engineer and the owner.

All new pipe crossings shall be installed at the invert elevations as specified on the Drawings, usually a minimum of 50mm below design grade. If the ditch is over excavated greater than 200mm below design grade the Contractor shall confirm with the Engineer the elevations for installation of the new pipe crossing.

For backfill and surface restoration, refer to the General Specifications for Drain Construction and the Drawings.

Installation of private crossings during construction must be approved by the Engineer.

410.3.9 Obstructions

All trees, brush, fallen timber and debris shall be removed from the ditch cross-section and as required for spreading of the spoil. The roots shall be left in the banks if no bank excavation is required as part of the new channel excavation. In wooded or heavily overgrown areas all cleared material may be pushed into piles or rows along the edge of the cleared path and away from leveled spoil. All dead trees along either side of the drain that may impede the performance of the drain if allowed to remain and fall into the ditch, shall be removed and put in piles, unless directed otherwise by the Engineer.

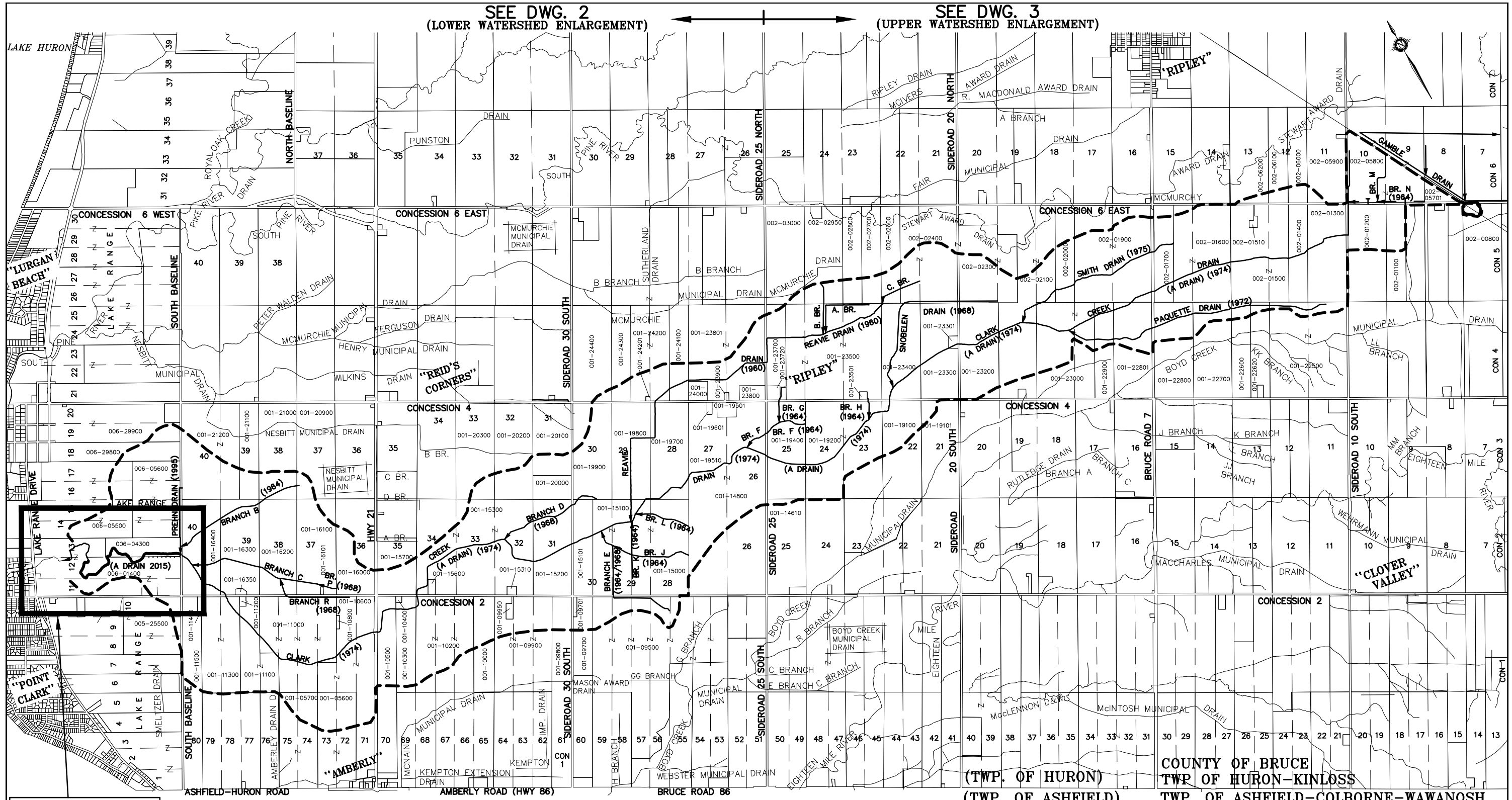
410.3.10 Tile Outlets

The location of all existing tile outlets may not be shown on the profile for the drain. The Contractor shall contact each owner and ensure that all tile outlets are marked prior to commencing excavation on the owner's property. If a marked tile outlet or the tile upstream is damaged due to construction, it shall be replaced at the Contractor's expense. Additional payment will be allowed for the repair or replacement of any unmarked tile outlets encountered during excavation. In all cases, if an existing tile outlet requires replacement the Contractor shall confirm the replacement tile outlet with the Engineer. Where riprap protection exists at any existing tile outlet such protection shall be removed and replaced as necessary to protect the outlet after reconstruction of the channel.

If any tile outlet becomes plugged as a result of construction, the Contractor shall remove the obstruction.

410.3.11 Completion

At the time of final inspection, all work in the contract shall have the full dimensions and cross-sections specified.



AREA OF WORK
SEE ENLARGEMENT PLAN
DRAWING 4

PLAN LEGEND

- MAJOR WATERSHED
- PROPOSED WORK (CHANNEL REALIGNMENT)
- EXISTING MUNICIPAL DRAIN (WITH NEW FUTURE MAINTENANCE SCHEDULE)
- EXISTING MUNICIPAL DRAIN
- Z DENOTES PROPERTY OWNERSHIP ON BOTH SIDES OF LOT LINE
- 001-15300 ASSESSMENT ROLL NUMBER

SEE DWG. 2
(LOWER WATERSHED ENLARGEMENT)

SEE DWG. 3
(UPPER WATERSHED ENLARGEMENT)

NOTE:
ALL ROLL NO.'S BEGIN WITH 41-07-160- i.e. 001-11300
IN FULL IS 41-07-160-001-11300

GEOGRAPHIC TOWNSHIP OF HURON

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: D.C.P.
CHECKED BY: N.W.M.

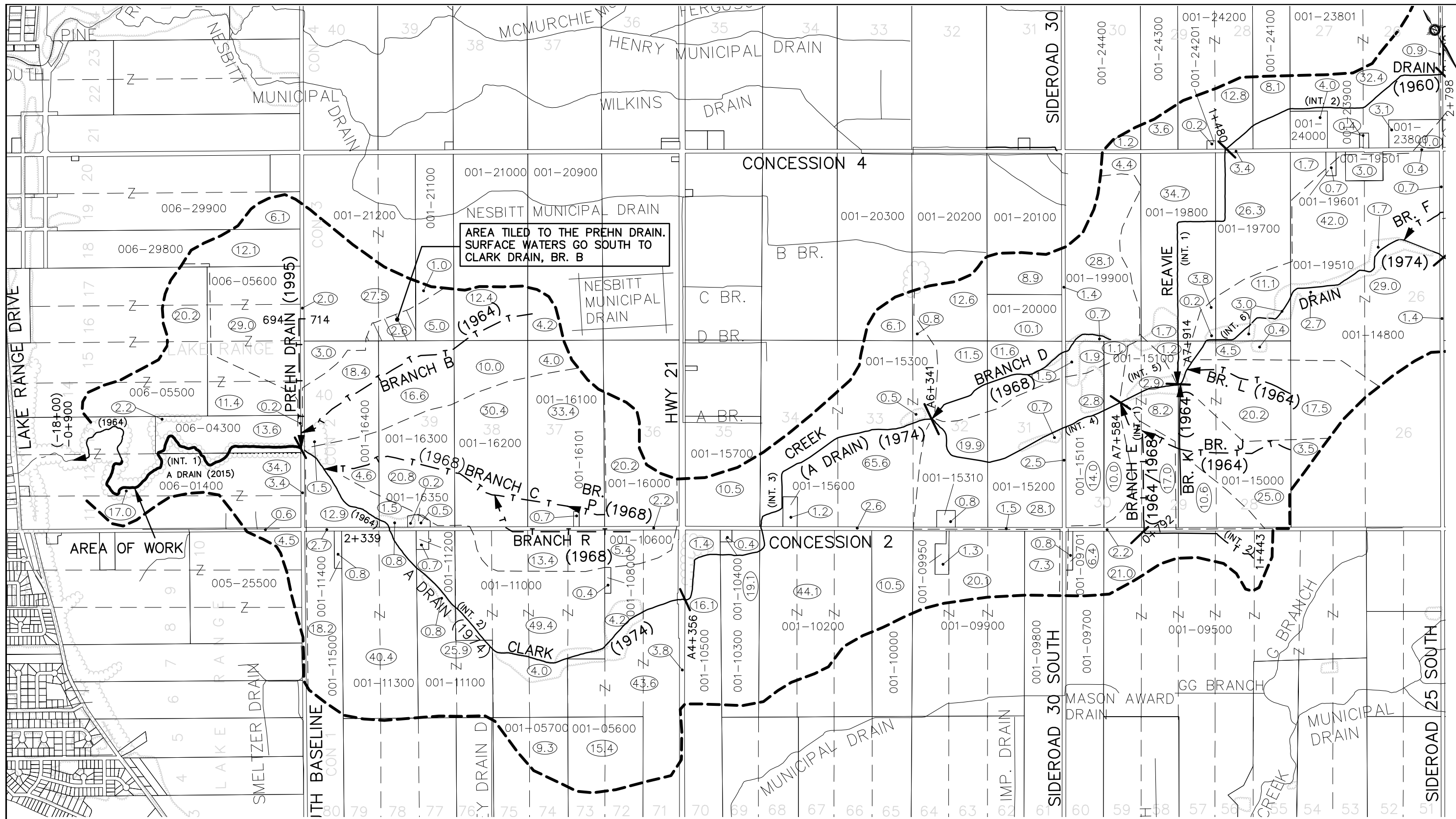


SCALE
0 400 800m
(1:40,000 ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

WATERSHED PLAN
ORIGINAL: NOV. 12, 2021
REVISED:
JOB NUMBER: 11-090
DRAWING: 1 OF 31

K. SMART ASSOCIATES LIMITED
CONSULTING ENGINEERS AND PLANNERS
KITCHENER SUDBURY



AREA TILED TO THE PREHN DRAIN.
SURFACE WATERS GO SOUTH TO
CLARK DRAIN, BR. B

NOTE:
ALL ROLL NO.'S BEGIN WITH
41-07-160-
i.e. 001-11300 IN FULL IS
41-07-160-001-11300

PLAN LEGEND	
	-MAJOR WATERSHED
	-INTERMEDIATE WATERSHED
	-PROPOSED WORK (CHANNEL REALIGNMENT)
	-EXISTING MUNICIPAL DRAIN (OPEN) (WITH NEW FUTURE MAINTENANCE SCHEDULE)
	-EXISTING MUNICIPAL DRAIN (TILE) (WITH NEW FUTURE MAINTENANCE SCHEDULE)
	A4+358 -STATION (IN METRES)
	-DENOTES PROPERTY OWNERSHIP ON BOTH SIDES OF LOT LINE
	(12.8) -APPROXIMATE HECTARES IN WATERSHED
	001-11300 -ASSESSMENT ROLL NUMBER
	-BUSH
	(INT. 2) -INTERVAL NUMBER

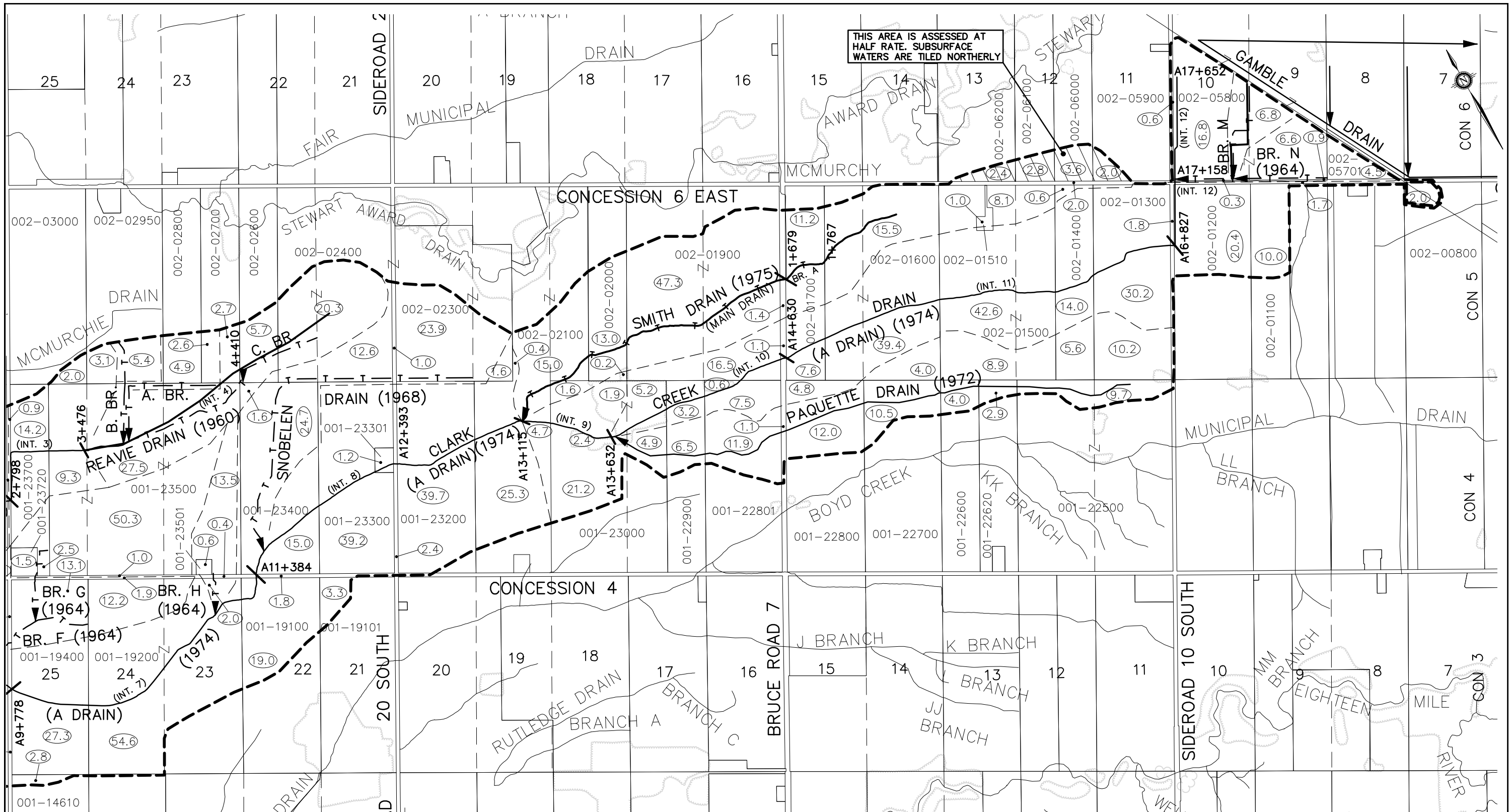
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: D.C.P.
CHECKED BY: N.W.M.



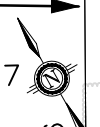
SCALE
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(1:20,000 ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

LOWER WATERSHED ENLARGEMENT	ORIGINAL: NOV. 12, 2021
	REVISED:
K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	JOB NUMBER: 11-090
	DRAWING 2 OF 31



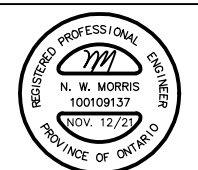
THIS AREA IS ASSESSED AT HALF RATE. SUBSURFACE WATERS ARE TILED NORTHERLY



NOTE:
ALL ROLL NO.'S BEGIN WITH
41-07-160-
i.e. 001-11300 IN FULL IS
41-07-160-001-11300

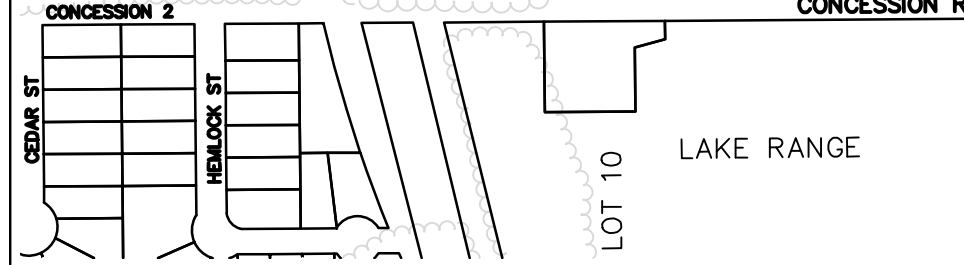
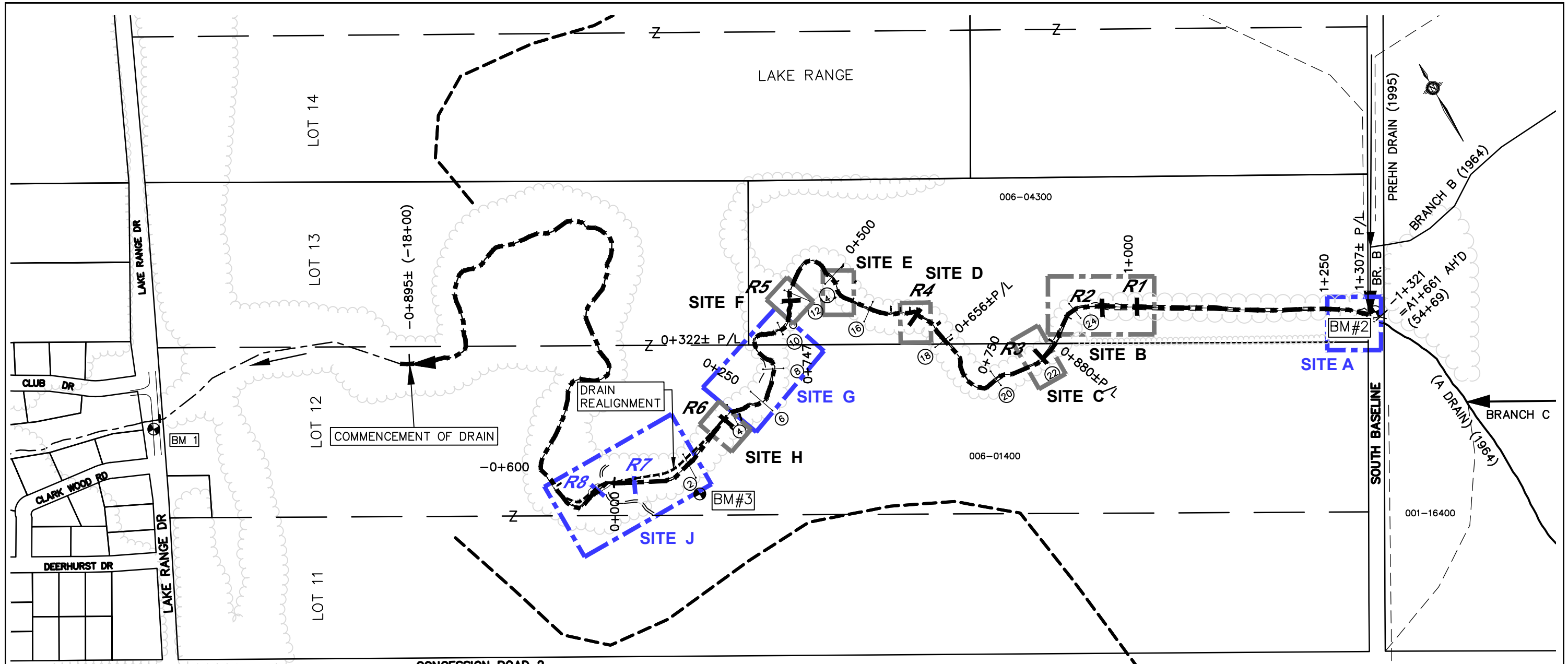
PLAN LEGEND	
	- MAJOR WATERSHED
	- INTERMEDIATE WATERSHED
	- PROPOSED WORK (CHANNEL REALIGNMENT)
	- EXISTING MUNICIPAL DRAIN (OPEN) (WITH NEW FUTURE MAINTENANCE SCHEDULE)
	- EXISTING MUNICIPAL DRAIN (TILE) (WITH NEW FUTURE MAINTENANCE SCHEDULE)
A4+358	- STATION (IN METRES)
	- DENOTES PROPERTY OWNERSHIP ON BOTH SIDES OF LOT LINE
(12.8)	- APPROXIMATE HECTARES IN WATERSHED
001-19101	- ASSESSMENT ROLL NUMBER
	- BUSH
(INT. 2)	- INTERVAL NUMBER

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: D.C.P.
CHECKED BY: N.W.M.



SCALE
0 200 400m
(1:20,000 ON 11"x17")

CLARK CREEK DRAIN 2015	
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS	
UPPER WATERSHED ENLARGEMENT	ORIGINAL: NOV. 12, 2021
K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	REVISED:
	JOB NUMBER: 11-090
	DRAWING 3 OF 31



BM 1
CC S.E. CORNER OF CONCRETE CURB,
SW CORNER OF BRIDGE OVER CLARK CREEK,
LAKE RANGE ROAD
ELEV. 186.846

BM 2
CC NE CORNER OF CONCRETE CURB,
NW CORNER OF BRIDGE OVER CLARK CREEK,
SOUTH BASELINE ROAD
ELEV. 200.552
4880290.227
441144.423

BM 3
CC ON END OF CONCRETE HEADWALL ON W/SIDE OF BARN
ELEV. 203.009
4880324.169
441145.076

BENCHMARK / VERTICAL DATUM
ELEVATIONS SHOWN ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928
(CGVD28:78). THE BENCHMARK GBM #77 AT ELEVATION 206.594 WAS USED FOR THIS PROJECT.
(KAS COORDS -NORTHING 4879183.031, EASTING 443839.265)
BENCHMARK INFORMATION WAS ACQUIRED FROM THE MNR COSINE WEB-SITE. (HELIX PIPE WITH BRASS
CAP ALONG HIGHWAY 21, 2.7km NE OF JUNCTION WITH HWY 86)

CON 2

PLAN LEGEND

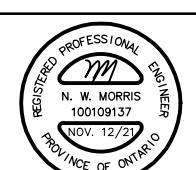
	-MAJOR WATERSHED
	-INTERMEDIATE WATERSHED
	-C/L OF EXISTING DRAIN
	-EXISTING DRAIN TO REMAIN AS PART OF CLARK CREEK DRAIN FOR FUTURE MAINTENANCE
	-EXISTING BANK
	-EXISTING TOE
	-BUSH/ TREELINE

	-PROPERTY LINE
006-01400	-ASSESSMENT ROLL NUMBER
0+000	-2015 SURVEY STATION (IN METRES)
(-18+00)	-DENOTES IMPERIAL STATIONS FROM PREVIOUS REPORT
	-SITE LOCATION
	-SITE LOCATION
	-RIFFLE LOCATION AND NUMBER
	-TRAN SECTION LOCATION AND NUMBER

CONSTRUCTION TO BE COMPLETED NOW

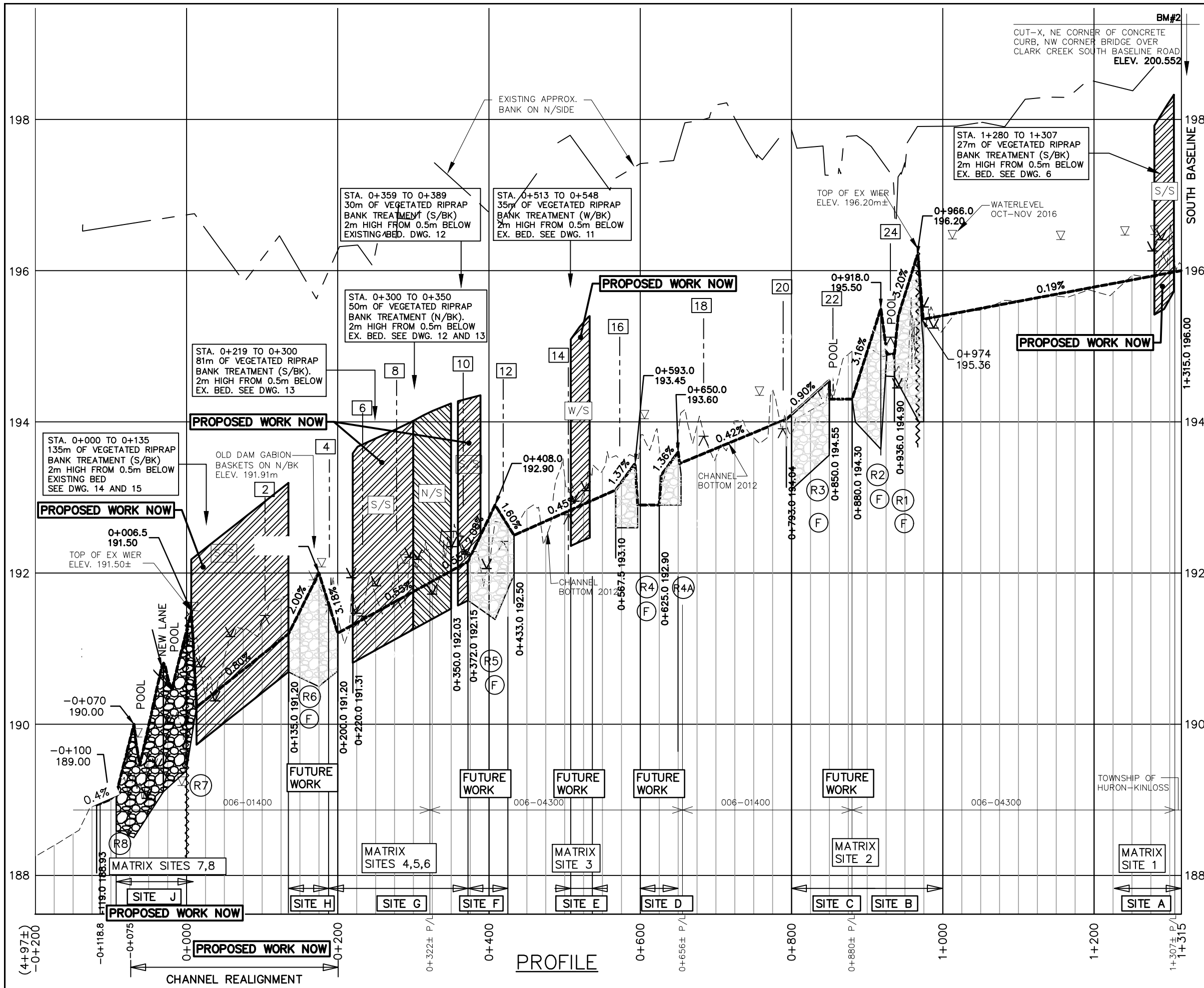
	-SITE LOCATION
	-RIFFLE NUMBER

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: N.M.B.
CHECKED BY: N.W.M.



SCALE
0 50 100m
1:5,000
(ON 11"x17")

CLARK CREEK DRAIN 2015	
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS	
ENLARGEMENT PLAN	
	K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY
ORIGINAL: NOV. 12, 2021	REVISED: JOB NUMBER: 11-090 DRAWING 4 OF 31

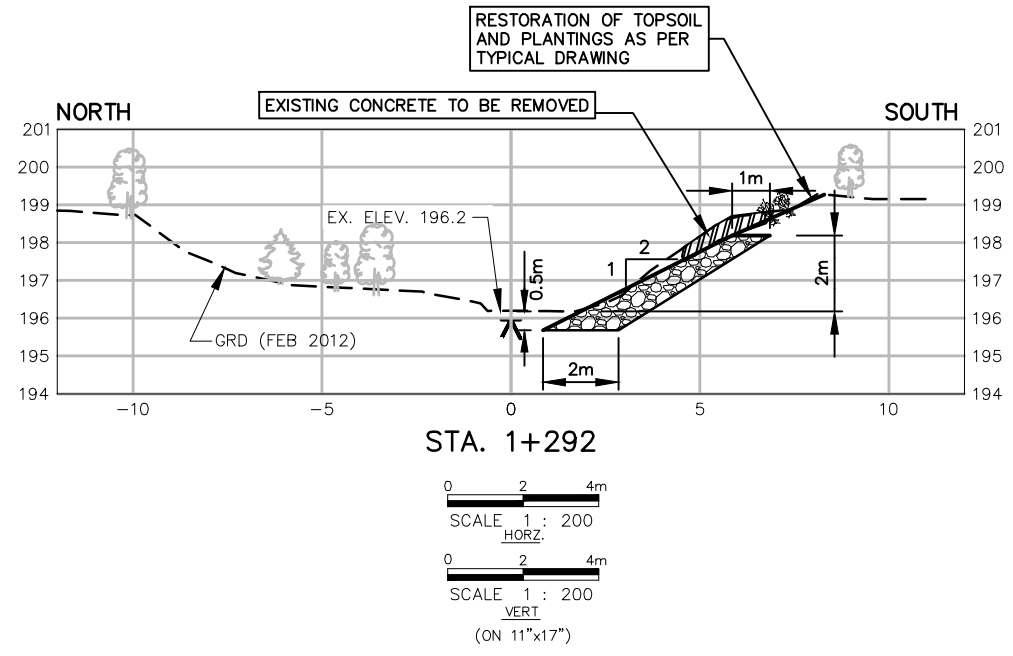
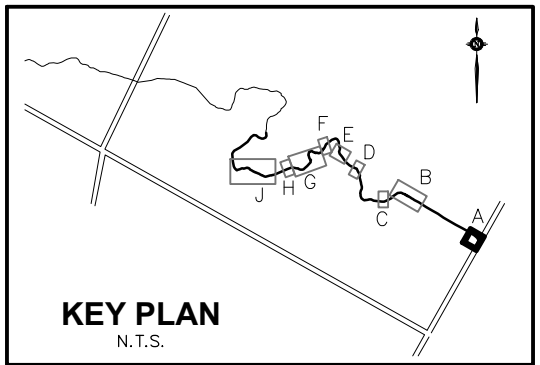
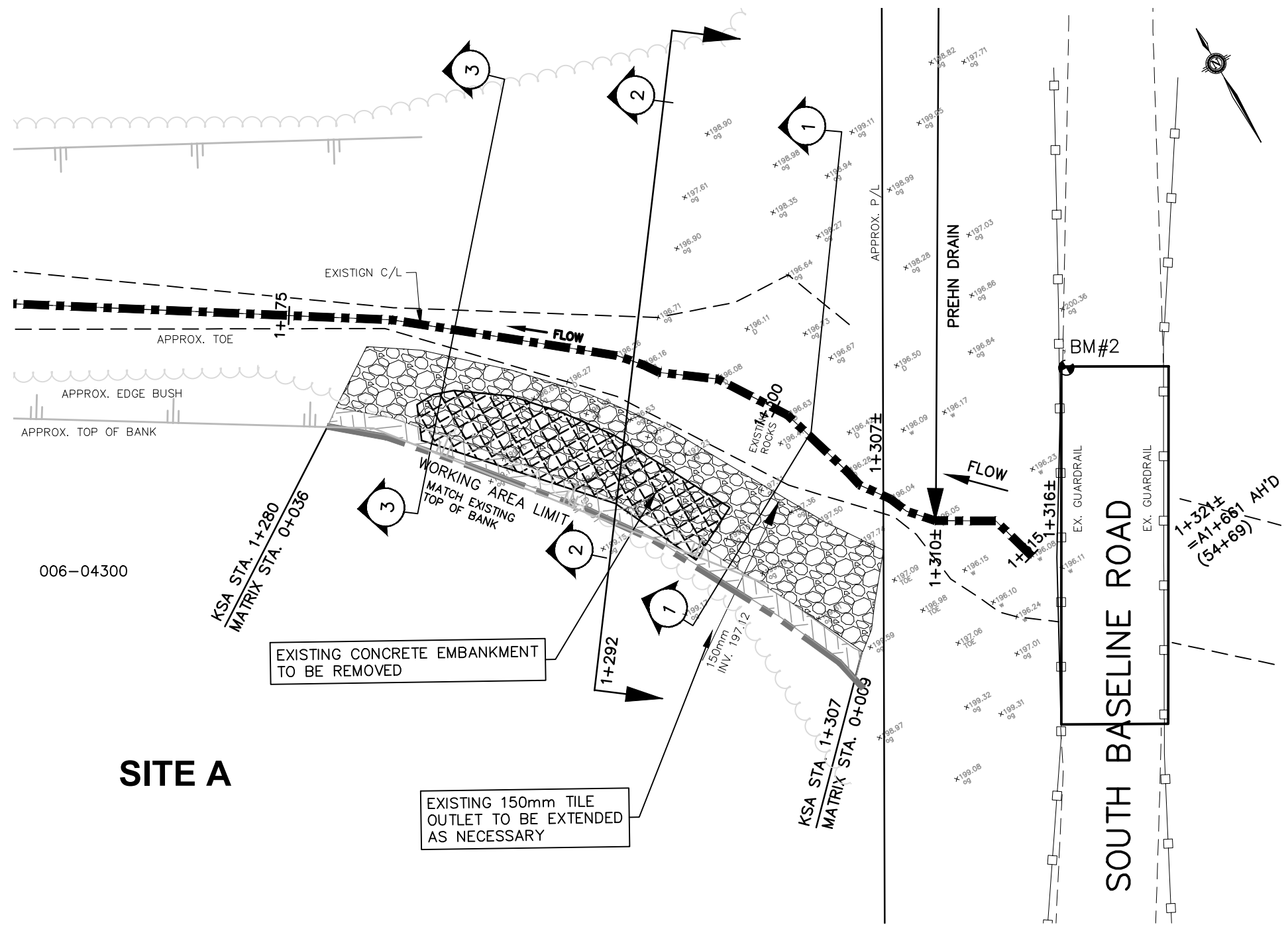


PLAN LEGEND

- PROPOSED GRADE FOR FUTURE MAINTENANCE
- EXISTING DITCH BOTTOM (FEB 2012)
- EXISTING DITCH BOTTOM (NOV, 2016)
- DITCH SHOT BY KSA FROM NOVEMBER 2016
- DITCH SHOT BY MATRIX SOLUTIONS FROM NOVEMBER 2016
- EXISTING WEIRS
- RIFFLE NUMBER
- FUTURE RIFFLE CONSTRUCTION
- TRANSECT LOCATIONS
- STANDARD RIFFLE
- TRANSITION RIFFLE
- VEGETATED RIPRAP BANK TREATMENT
N/S — DENOTES NORTH SIDE
S/S — DENOTES SOUTH SIDE
W/S — DENOTES WEST SIDE

NOTE: THERE IS NO PROFILE FROM STA. -0+895± (-18+00) TO -0+200 (4+17±) BUT IT IS PART OF THE DRAIN

DESIGNED BY: N.W.M.		SCALE 0 50 100m (SCALE 1 : 5000) HORIZ.
CHECKED BY: N.W.M.		0 1m (SCALE 1 : 50) VERT. (ON 11"x17")
DRAWN BY: N.M.B.		
CHECKED BY: N.W.M.		
CLARK CREEK DRAIN 2015		
COUNTY OF BRUCE		TOWNSHIP OF HURON-KINLOSS
PROFILE		ORIGINAL: NOV. 12, 2021
K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY		REVISED:
		JOB NUMBER: 11-090 DRAWING 5 OF 31



SITE A

SEE APPENDIX _____
MATRIX SOLUTIONS INC.
DRAWING 01

PLAN LEGEND

- C/L OF EXISTING DRAIN
- C/L PROPOSED
- EXISTING BANK
- EXISTING TOE
- APPROX. BUSH/ TREELINE
- PROPERTY LINE
- DENOTES RIPPLE STONE
- VEGETATED RIPRAP BANK TREATMENT
- DENOTES TOPSOIL LAYER
- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS
- 4880218.935
441697.432 -DENOTES NORTHING AND EASTING
- 0+000** -KSA EXISTING DITCH STATION (IN METRES) 2015
- 0+000** -KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-01400 -ASSESSMENT ROLL NUMBER

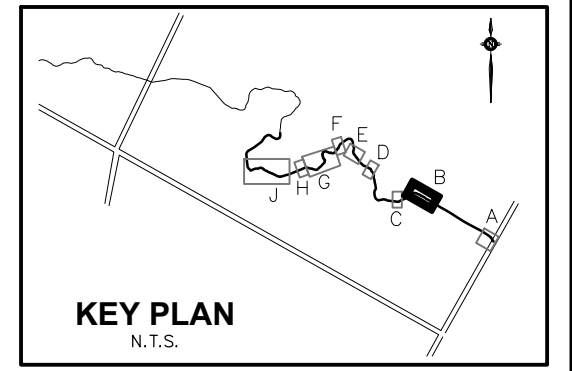
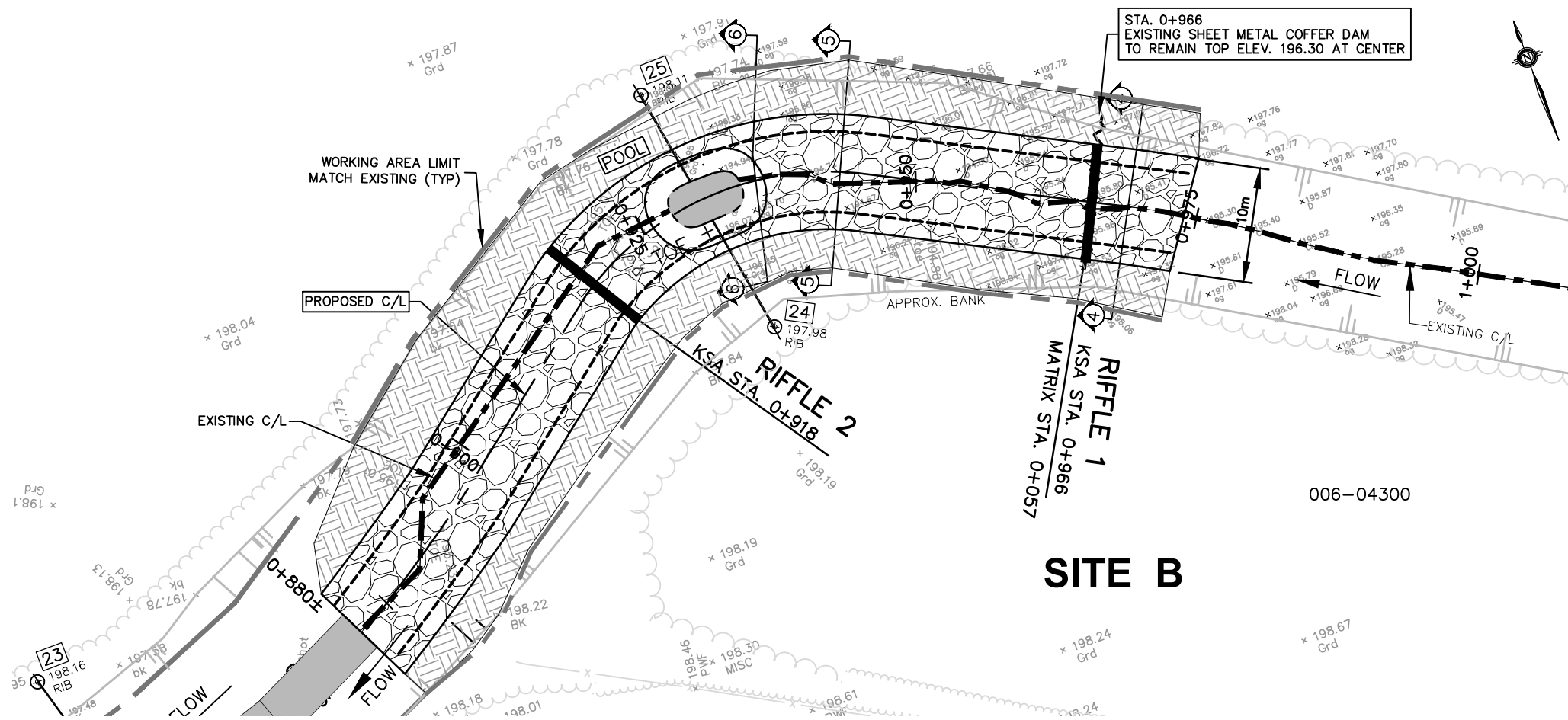
BM#2
CUT-X, N/E CORNER OF CONC. CURB,
N/W CORNER OF BRIDGE OVER CLARK
CREEK, SOUTH BASELINE ROAD
ELEV. 200.552m
N 4880290.227
E 441144.423

DESIGNED BY: N.W.M.		PLAN SCALE
CHECKED BY: N.W.M.		
DRAWN BY: N.M.B.		1:250
CHECKED BY: N.W.M.		(ON 11"x17")

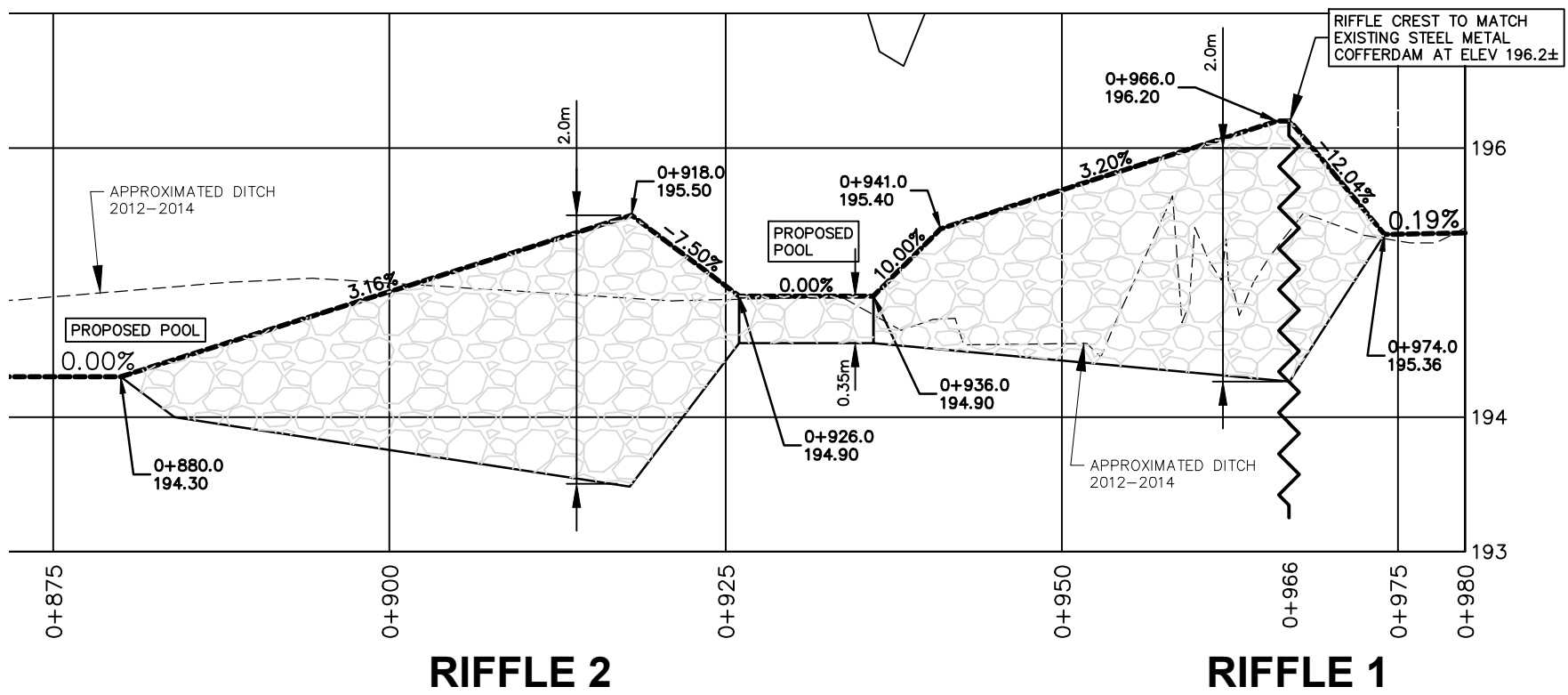
CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE A
BANK PROTECTION

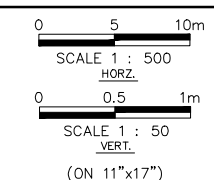
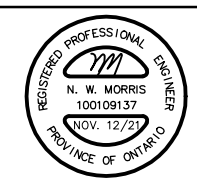
	K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
		JOB NUMBER: 11-090
		DRAWING 6 OF 31



- PLAN LEGEND**
- C/L OF EXISTING DRAIN
 - C/L PROPOSED
 - EXISTING BANK
 - EXISTING TOE
 - APPROX. BUSH/TREELINE
 - PROPERTY LINE
- 0+000** - KSA EXISTING DITCH STATION (IN METRES) 2015
0+000 - KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300** - ASSESSMENT ROLL NUMBER
- DENOTES RIFFLE STONE
 - VEGETATED RIPRAP BANK TREATMENT
 - DENOTES TOPSOIL LAYER
- 9 8 - TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- 1 1 - CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS
- 4880218.935
441697.432 - DENOTES NORTHING AND EASTING



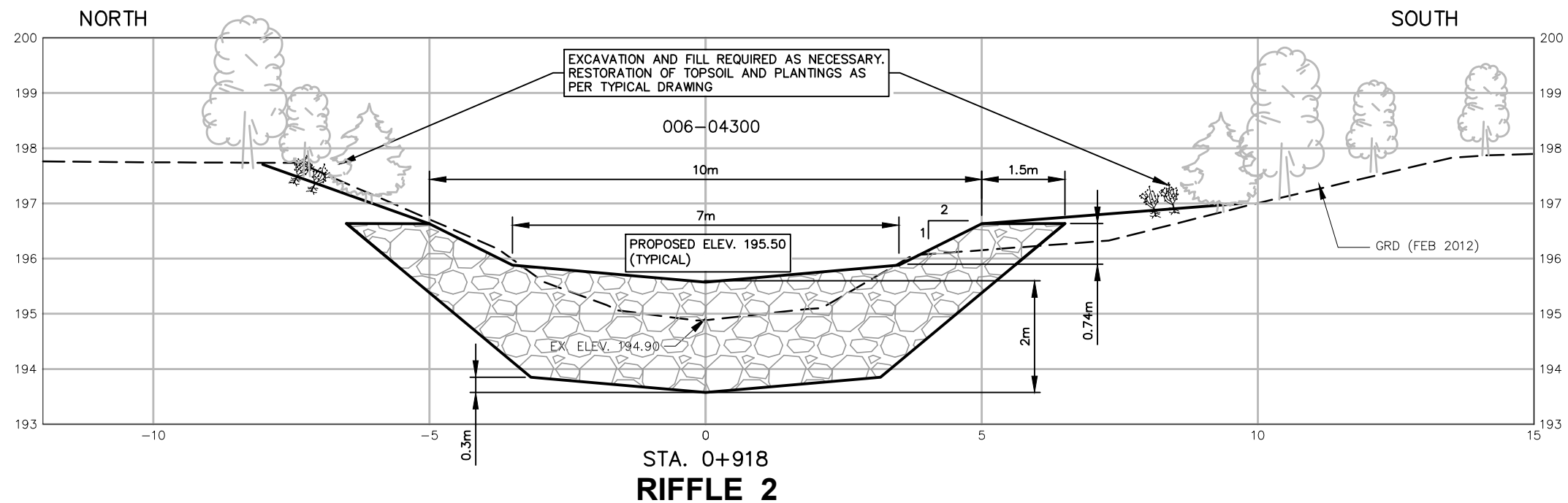
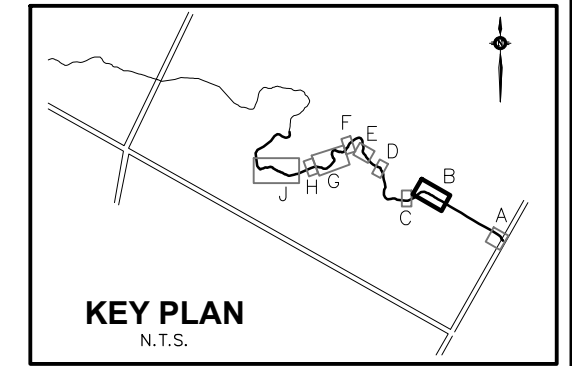
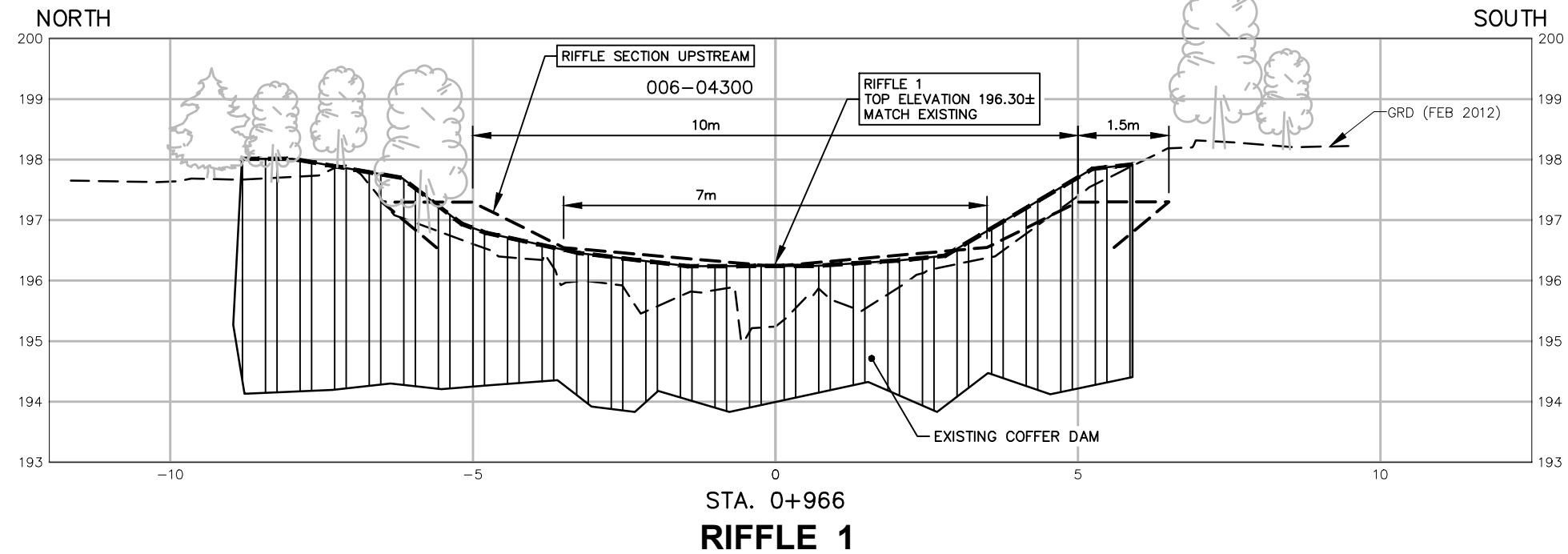
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: N.M.B.
CHECKED BY: N.W.M.




CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE B
RIFFLES 1 AND 2

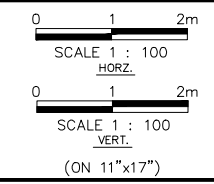
K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 7 OF 31

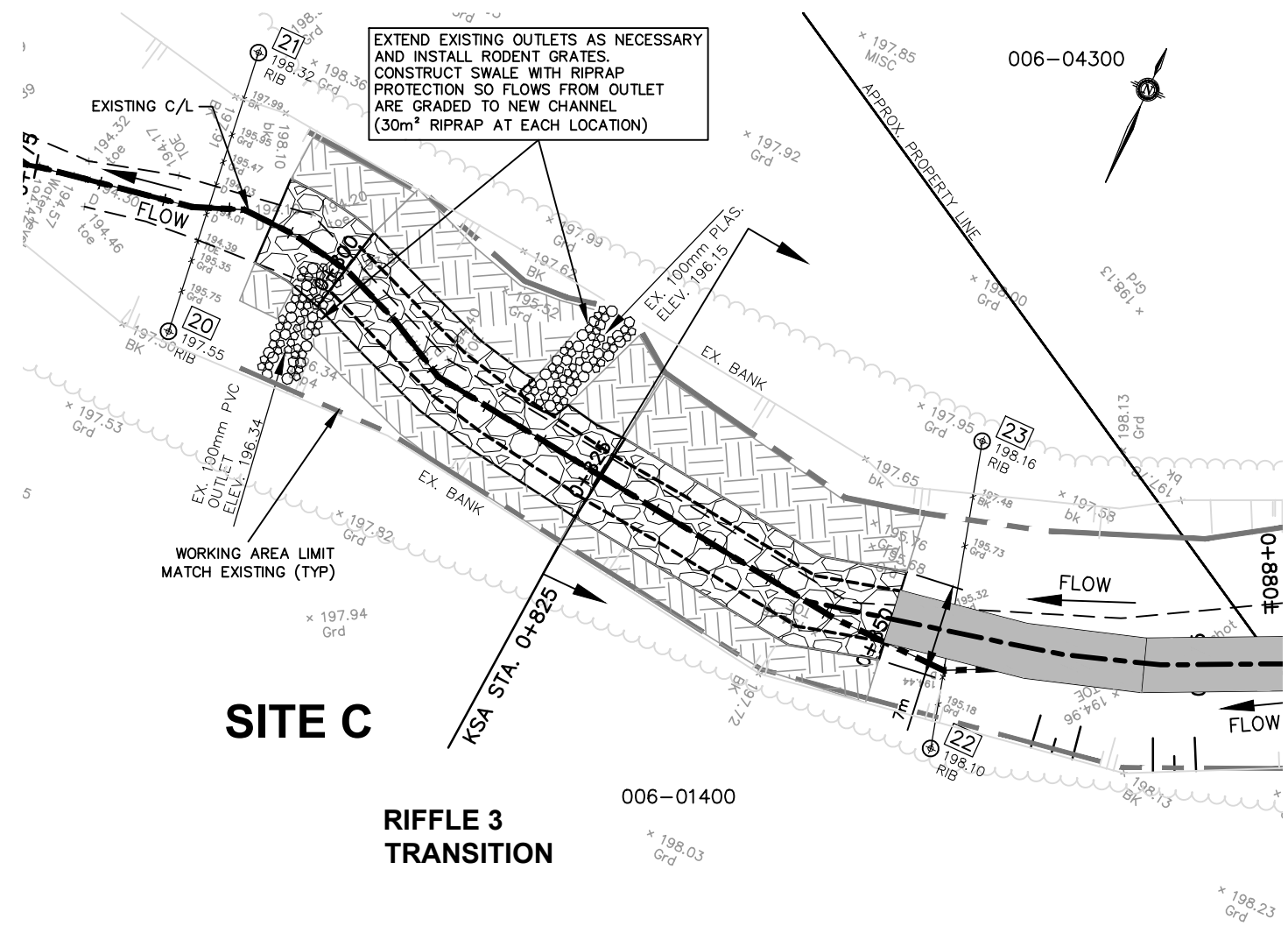


SEE APPENDIX _____
 MATRIX SOLUTIONS INC.
 DRAWING 02 AND 03

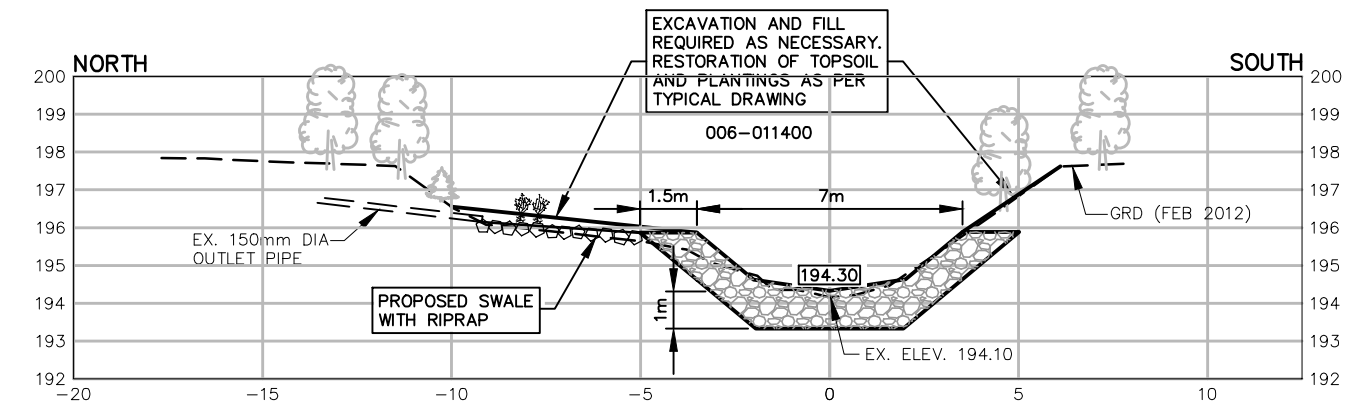
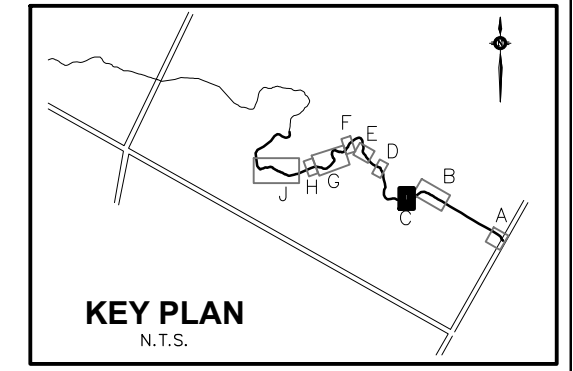
CLARK CREEK DRAIN 2015	
COUNTY OF BRUCE	TOWNSHIP OF HURON-KINLOSS
SITE B	
RIFFLES SECTIONS	
 K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 8 OF 31

DESIGNED BY: N.W.M.
 CHECKED BY: N.W.M.
 DRAWN BY: N.M.B.
 CHECKED BY: N.W.M.





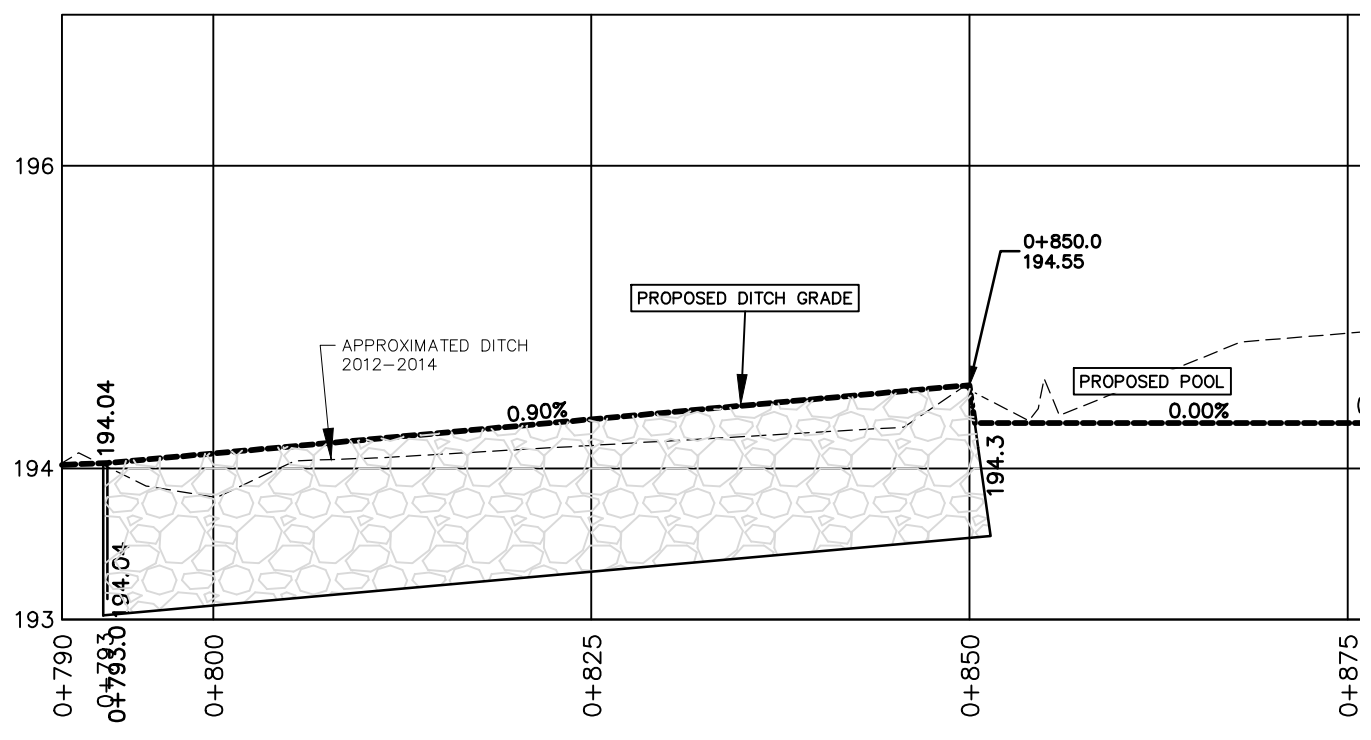
SITE C
RIFFLE 3
TRANSITION



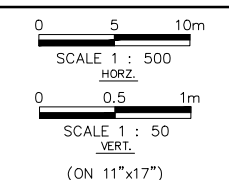
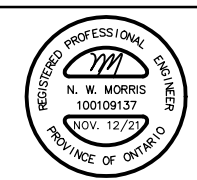
SCALE 1 : 200
SCALE 1 : 200
(ON 11"x17")

PLAN LEGEND

- --C/L OF EXISTING DRAIN
- --C/L PROPOSED
- --EXISTING BANK
- --EXISTING TOE
- --APPROX. BUSH/TREELINE
- --PROPERTY LINE
- 0+000 --KSA EXISTING DITCH STATION (IN METRES) 2015
- 0+000 --KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300 --ASSESSMENT ROLL NUMBER
- 9 8 --TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- 1 1 --CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS
- [Ripple Stone Pattern] --DENOTES RIFFLE STONE
- [Vegetated Riprap Pattern] --VEGETATED RIPRAP BANK TREATMENT
- [Topsoil Pattern] --DENOTES TOPSOIL LAYER
- 4880218.935 441697.432 --DENOTES NORTHING AND EASTING



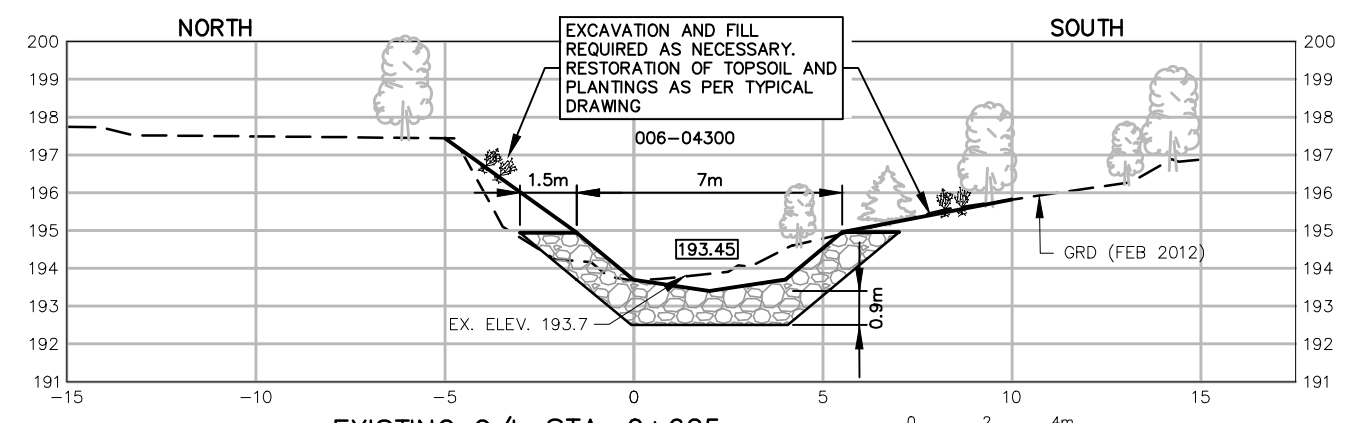
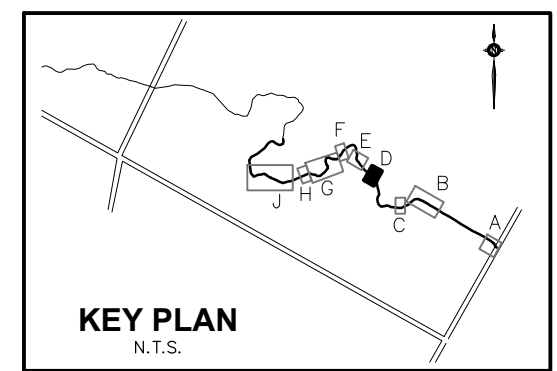
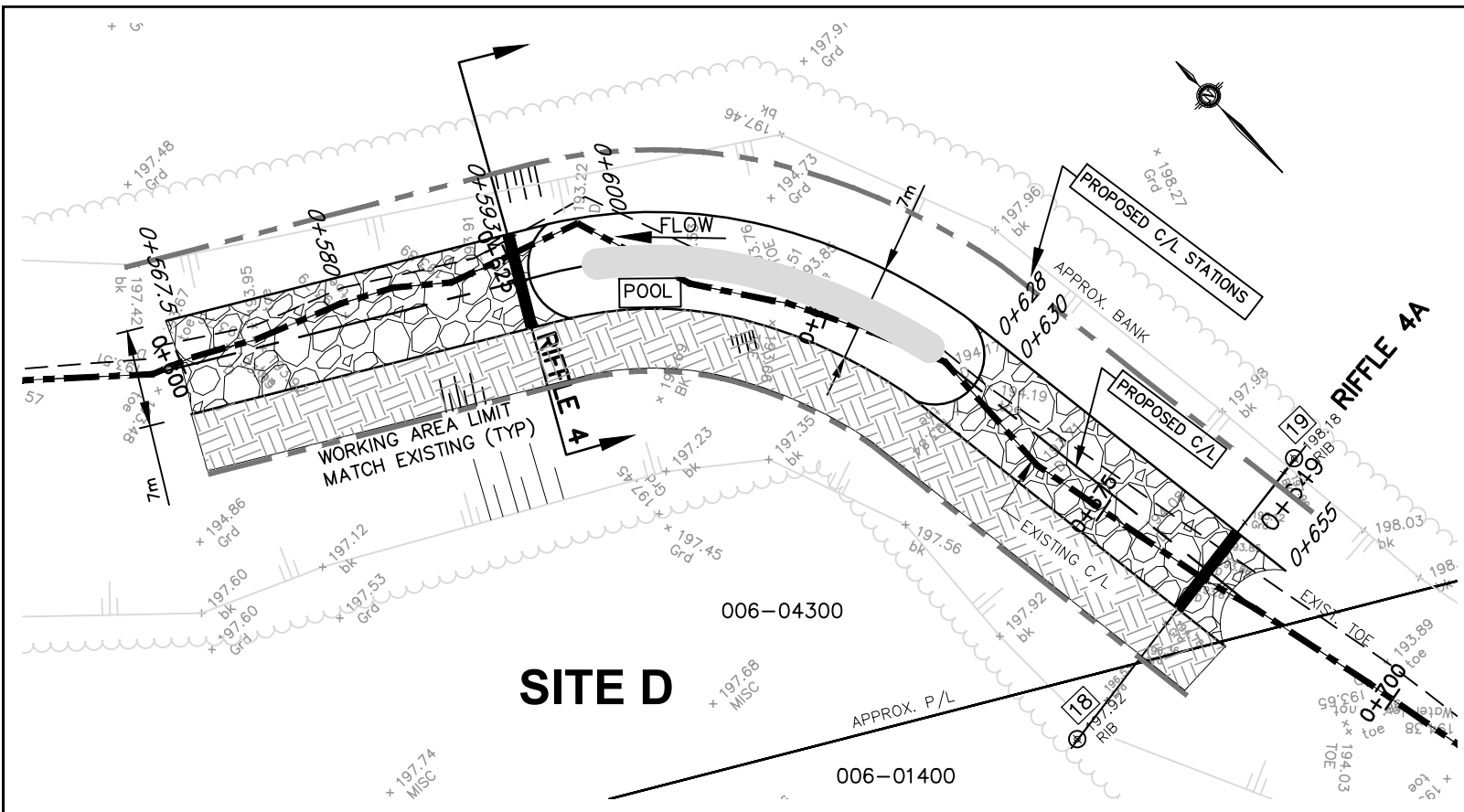
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: N.M.B.
CHECKED BY: N.W.M.



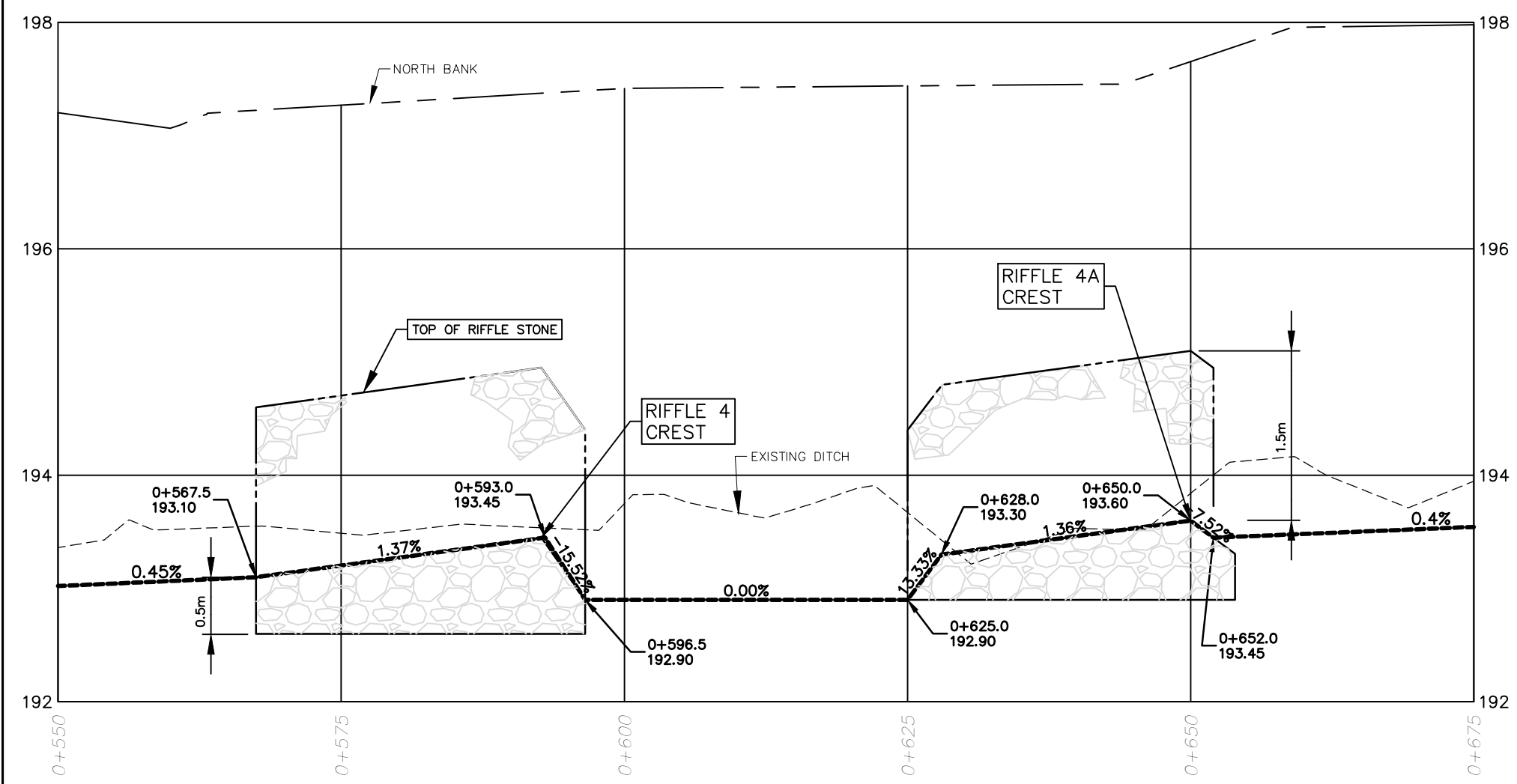
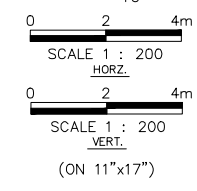
CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE C
RIFFLE 3 - TRANSITION

<p>K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY</p>	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 9 OF 31



EXISTING C/L STA. 0+625
PROPOSED STA 0+593 RIFFLE 4



PLAN LEGEND

- C/L OF EXISTING DRAIN
- C/L PROPOSED
- EXISTING BANK
- EXISTING TOE
- APPROX. BUSH/ TREELINE
- PROPERTY LINE
- 0+000** -KSA EXISTING DITCH STATION (IN METRES) 2015
- 0+000** -KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300** -ASSESSMENT ROLL NUMBER
- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- 9
- 8
- DENOTES RIFFLE STONE
- VEGETATED RIPRAP BANK TREATMENT
- DENOTES TOPSOIL LAYER
- 4880218.935
441697.432 -DENOTES NORTHING AND EASTING
- APPROXIMATE EXCAVATION LIMITS (MATCH EXISTING)

DESIGNED BY: N.W.M.		0 5 10m
CHECKED BY: N.W.M.		SCALE 1 : 500
DRAWN BY: N.M.B.		0 0.5 1m
CHECKED BY: N.W.M.		SCALE 1 : 50
		(ON 11"x17")

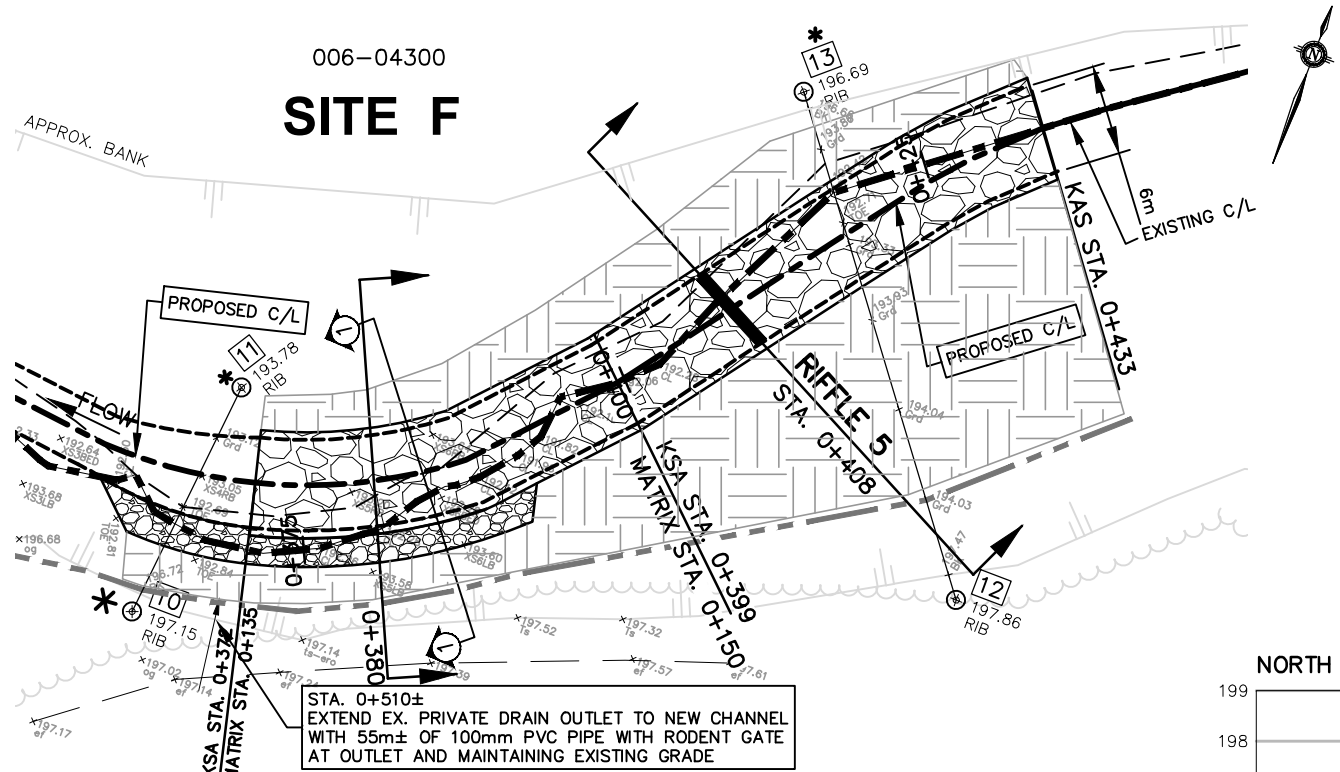
CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE D
RIFFLE 4 AND 4A

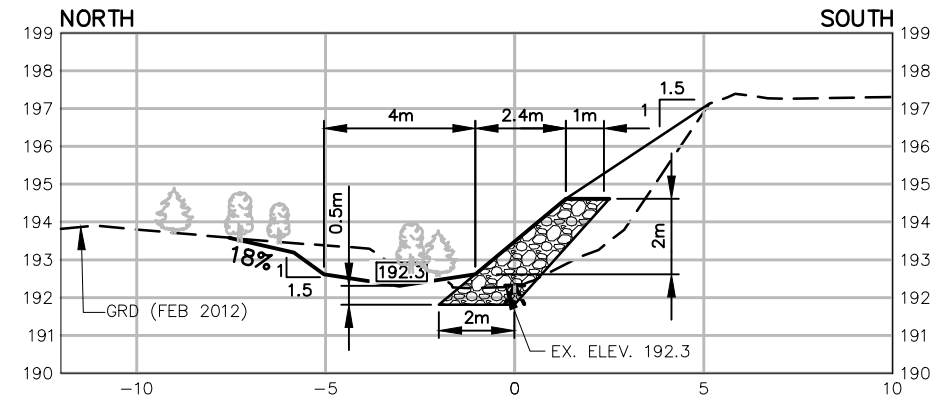
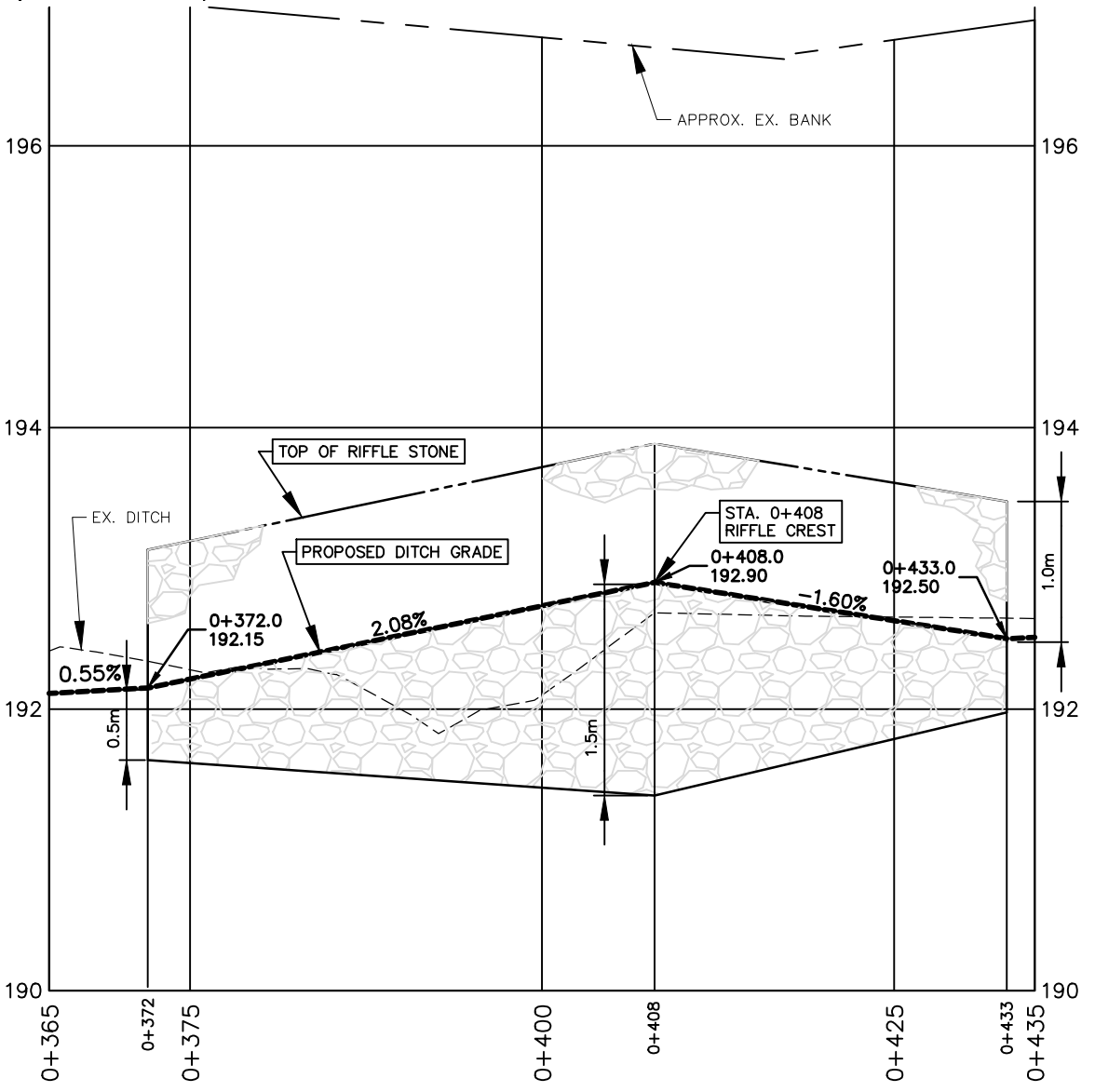
<p>K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY</p>	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 10 OF 31

006-04300

SITE F



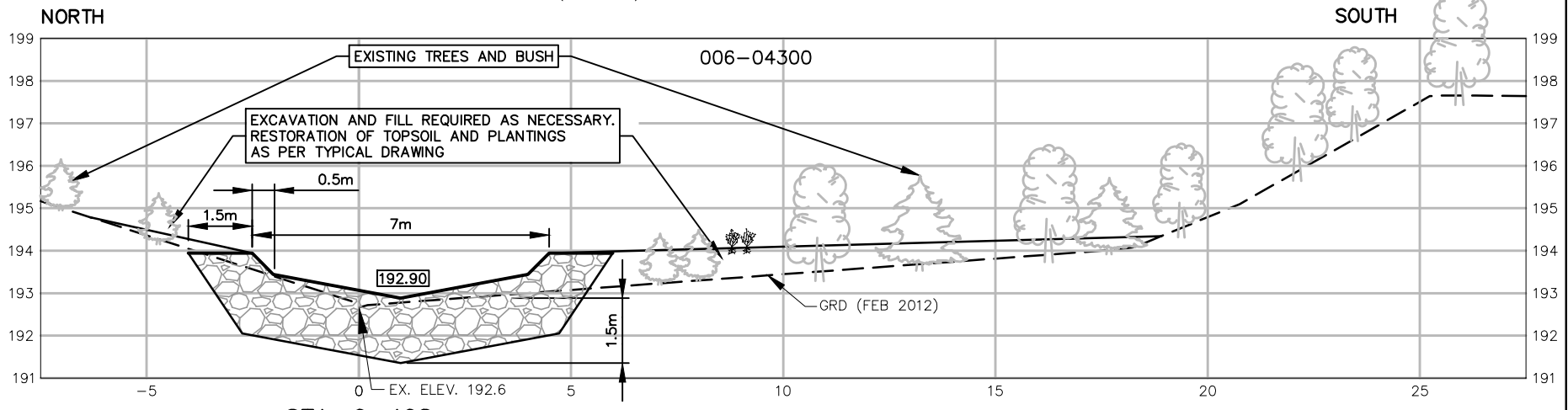
STA. 0+510±
EXTEND EX. PRIVATE DRAIN OUTLET TO NEW CHANNEL
WITH 55m± OF 100mm PVC PIPE WITH RODENT GATE
AT OUTLET AND MAINTAINING EXISTING GRADE



STA. 0+380

0 2 4m
SCALE 1 : 200
HORZ.

0 2 4m
SCALE 1 : 200
VERT.
(ON 11"x17")



STA. 0+408

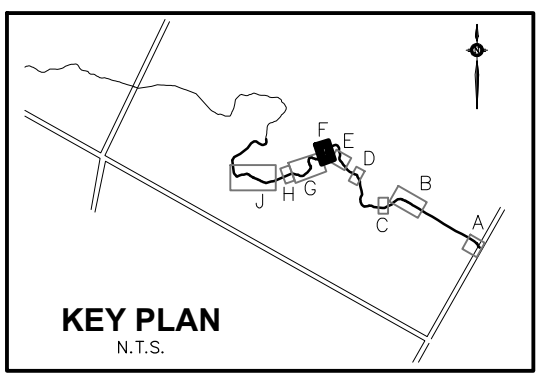
0 1.5 3m
SCALE 1 : 150
HORZ.

0 1.5 3m
SCALE 1 : 150
VERT.
(ON 11"x17")

* NOTE:
TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION.
RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

PLAN LEGEND

- C/L OF EXISTING DRAIN
- - - C/L PROPOSED
- EXISTING BANK
- EXISTING TOE
- APPROX. BUSH/TREELINE
- PROPERTY LINE
- DENOTES RIFFLE STONE
- VEGETATED RIPRAP BANK TREATMENT
- DENOTES TOPSOIL LAYER
- 4880218.935
441697.432 --- DENOTES NORTHING AND EASTING
- 1 1 --- CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS
- 9 8 --- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION



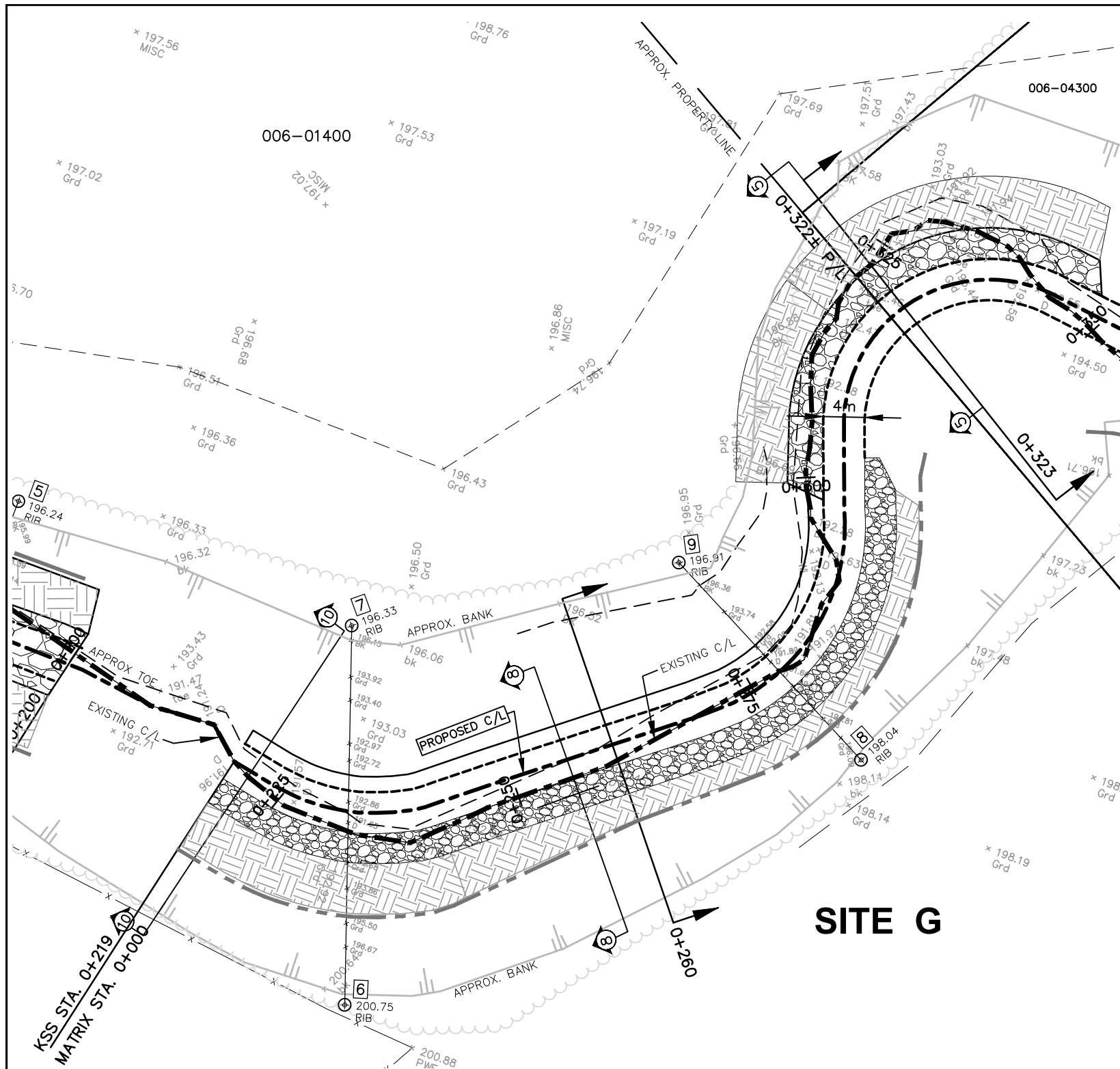
SEE APPENDIX
MATRIX SOLUTIONS INC.
DRAWINGS 05 AND 06

DESIGNED BY: N.W.M.		0 5 10m
CHECKED BY: N.W.M.		SCALE 1 : 500 HORZ.
DRAWN BY: N.M.B.		0 0.5 1m
CHECKED BY: N.W.M.		SCALE 1 : 50 VERT. (ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE F
RIFFLE 5

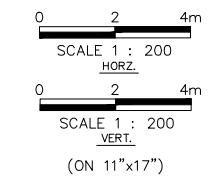
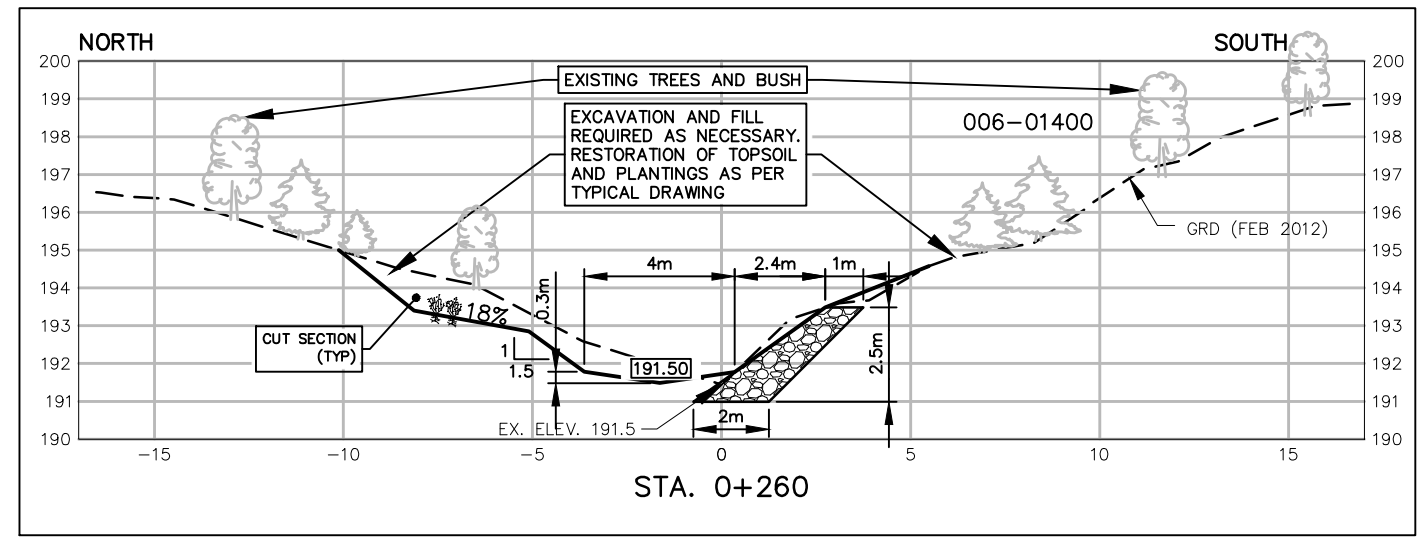
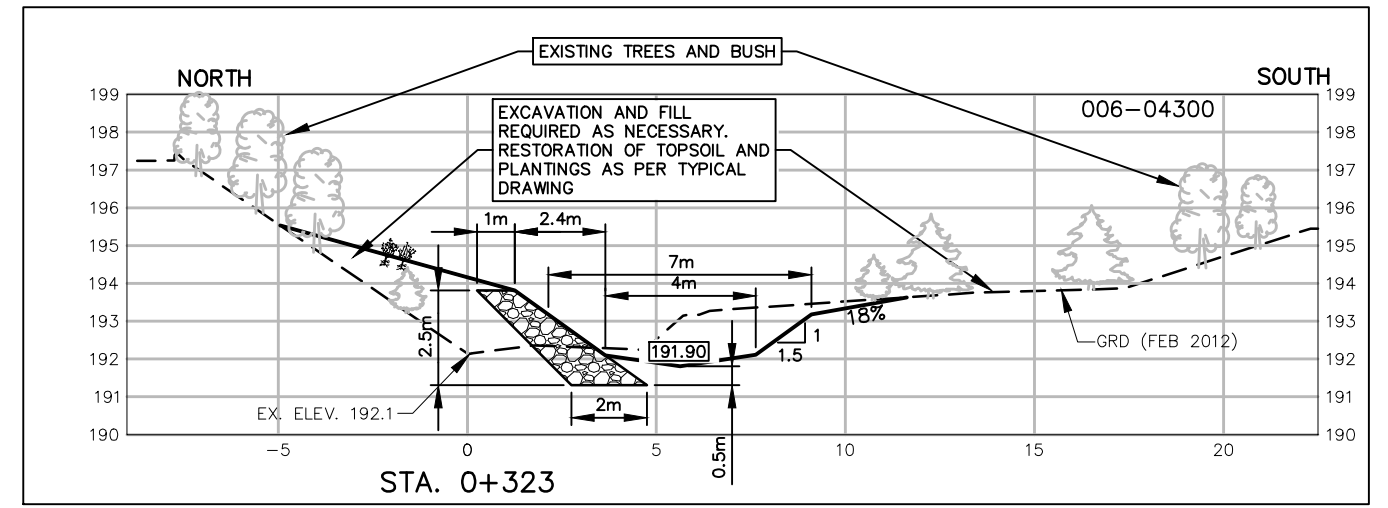
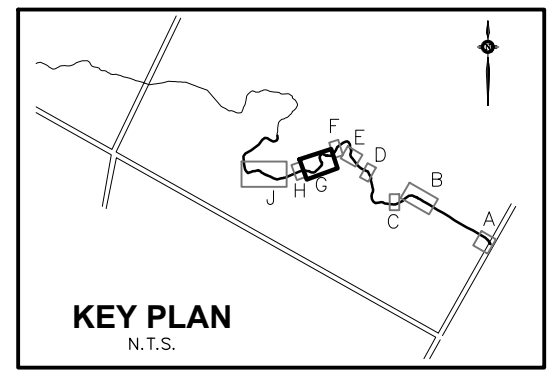
	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 12 OF 31



SITE G

PLAN LEGEND

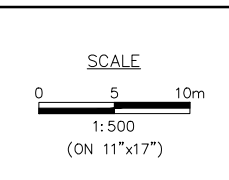
- C/L OF EXISTING DRAIN
- C/L PROPOSED
- EXISTING BANK
- EXISTING TOE
- APPROX. BUSH/ TREELINE
- PROPERTY LINE
- 0+000** -KSA EXISTING DITCH STATION (IN METRES) 2015
- 0+000** -KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300** -ASSESSMENT ROLL NUMBER
- DENOTES RIFFLE STONE
- VEGETATED RIPRAP BANK TREATMENT
- DENOTES TOPSOIL LAYER
- APPROXIMATE EXCAVATION LIMITS (MATCH EXISTING)
- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS
- 4880218.935 -DENOTES NORTHING AND EASTING
- 441697.432



SEE APPENDIX _____
MATRIX SOLUTIONS INC.
DRAWINGS 05, 06, 07

*** NOTE:**
 TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION. RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

DESIGNED BY: N.W.M.
 CHECKED BY: N.W.M.
 DRAWN BY: N.M.B.
 CHECKED BY: N.W.M.

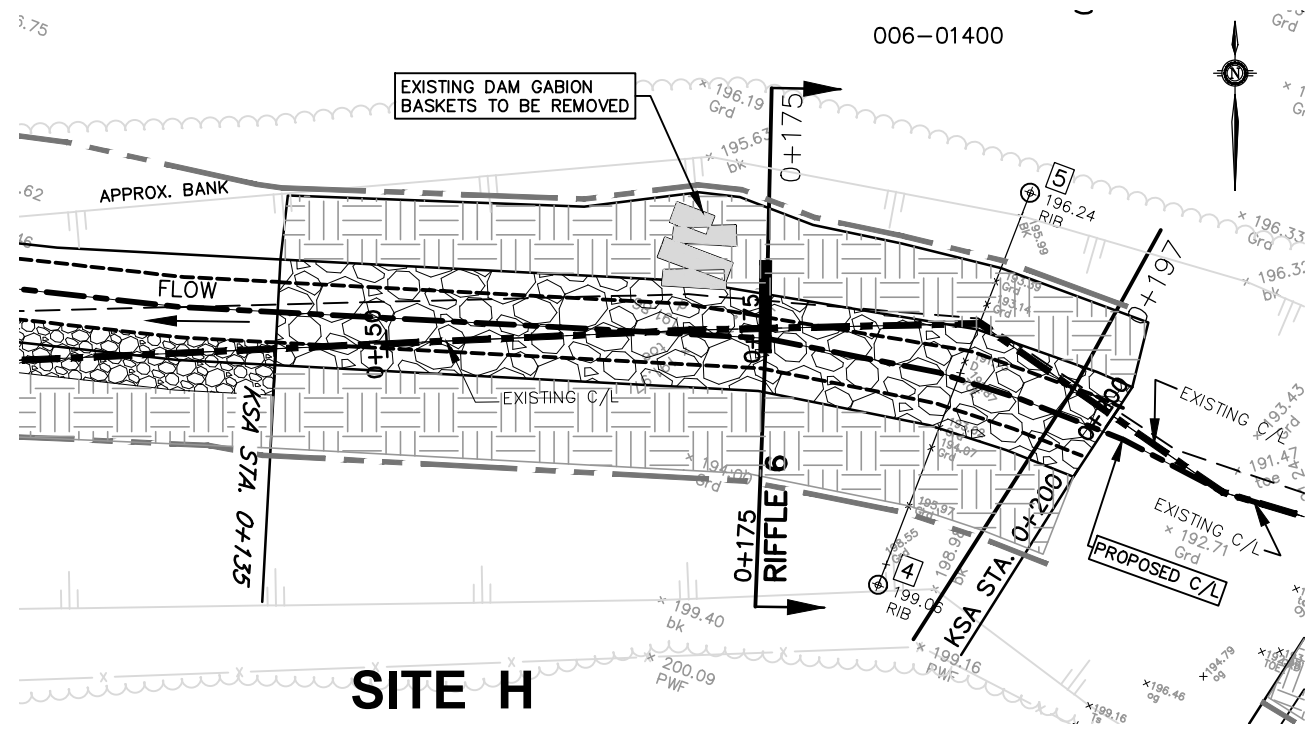


CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

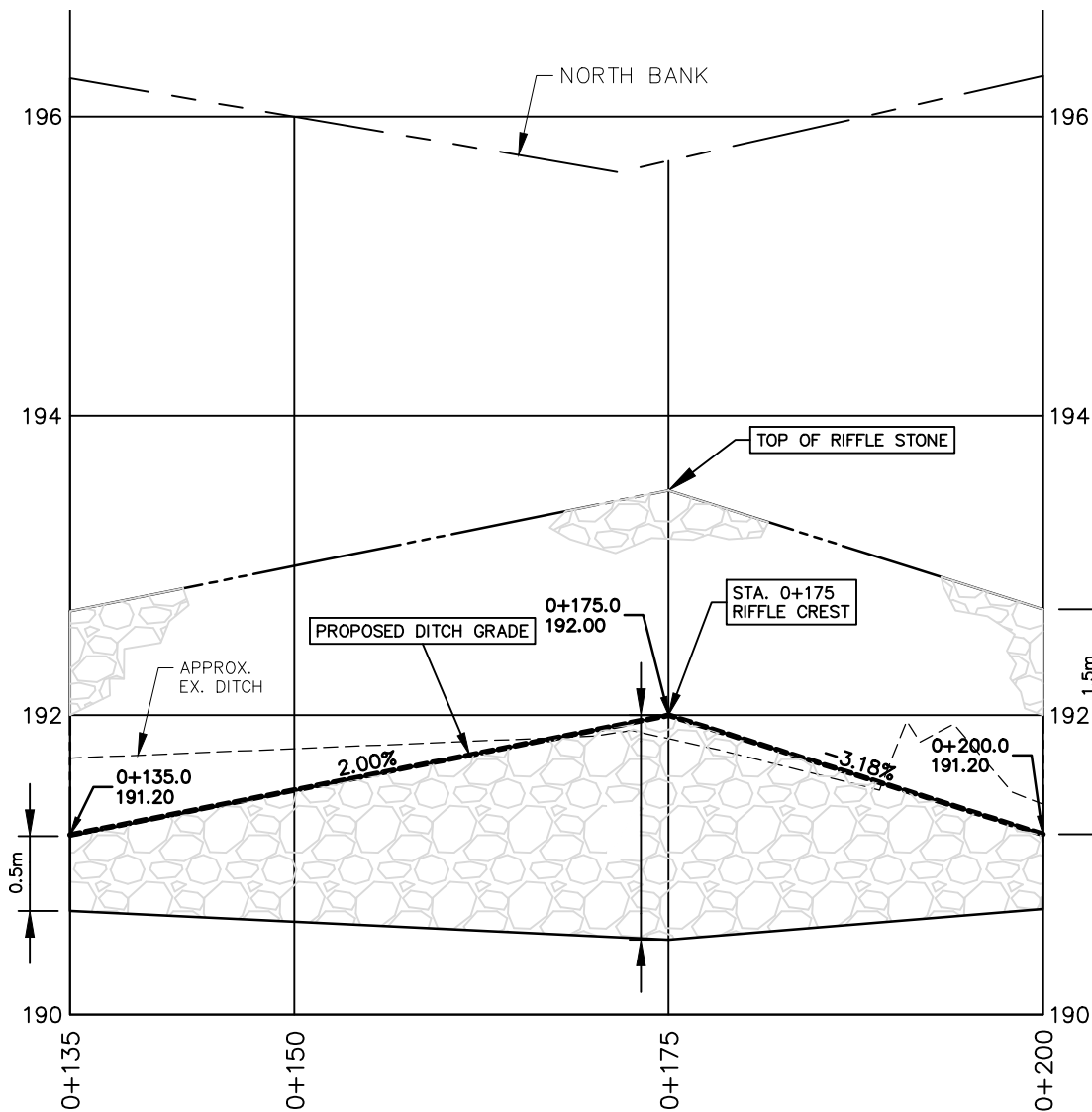
SITE G
BANK PROTECTION

K. SMART ASSOCIATES LIMITED
 CONSULTING ENGINEERS AND PLANNERS
 KITCHENER SUDBURY

ORIGINAL: **NOV. 12, 2021**
 JOB NUMBER: **11-090**
 DRAWING: **13 OF 31**

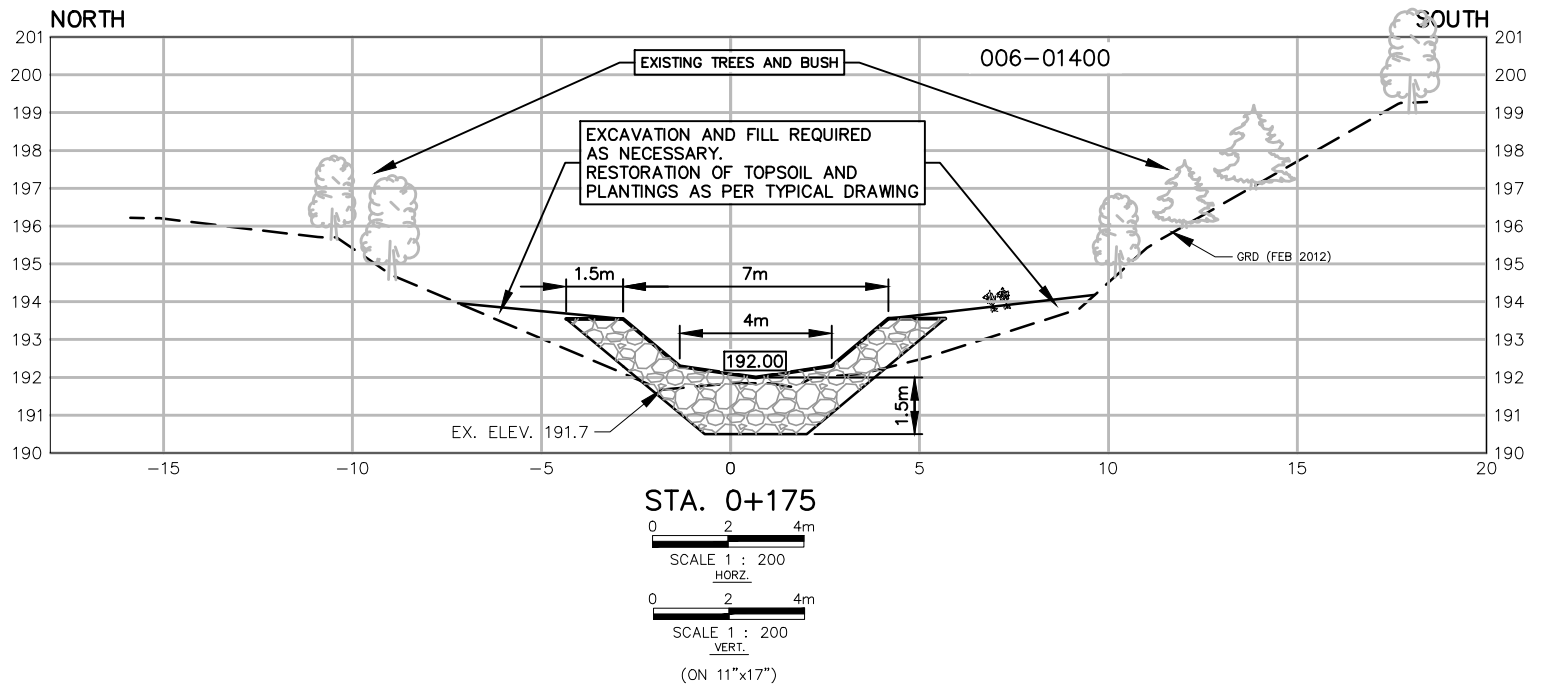
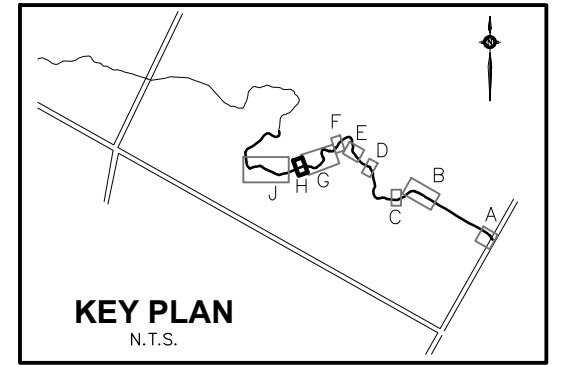


SITE H



PLAN LEGEND

- C/L OF EXISTING DRAIN
- C/L PROPOSED
- EXISTING BANK
- EXISTING TOE
- APPROX. BUSH/ TREELINE
- PROPERTY LINE
- KSA EXISTING DITCH STATION (IN METRES) 2015
- KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300 -ASSESSMENT ROLL NUMBER
- DENOTES RIFFLE STONE
- VEGETATED RIPRAP BANK TREATMENT
- DENOTES TOPSOIL LAYER
- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- APPROXIMATE EXCAVATION LIMITS (MATCH EXISTING)
- CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS



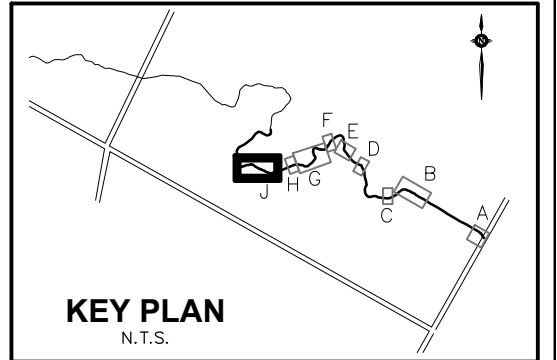
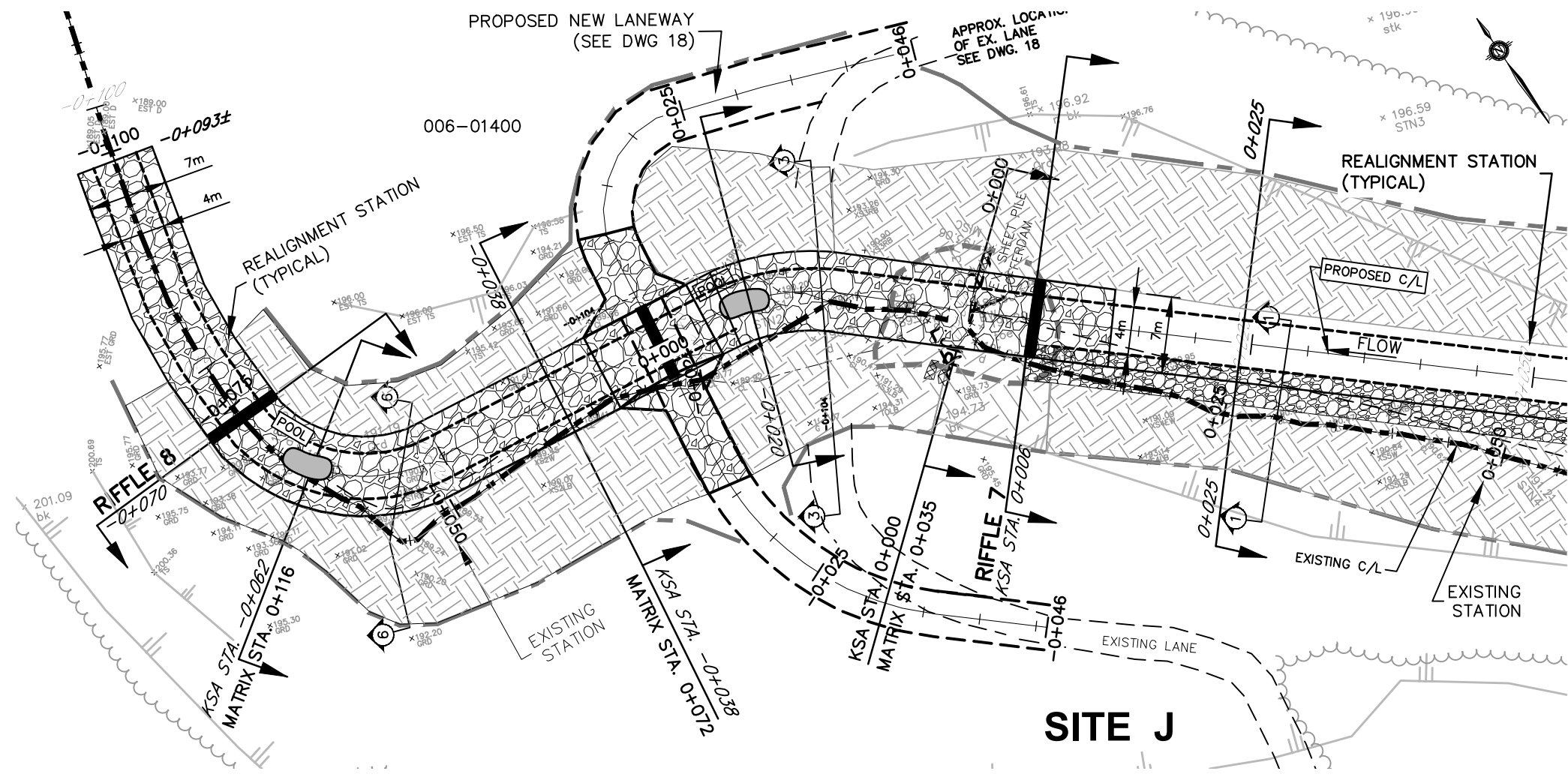
* **NOTE:**
TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION. RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

DESIGNED BY: N.W.M.		0 5 10m
CHECKED BY: N.W.M.		SCALE 1 : 500
DRAWN BY: N.M.B.		0 0.5 1m
CHECKED BY: N.W.M.		SCALE 1 : 50

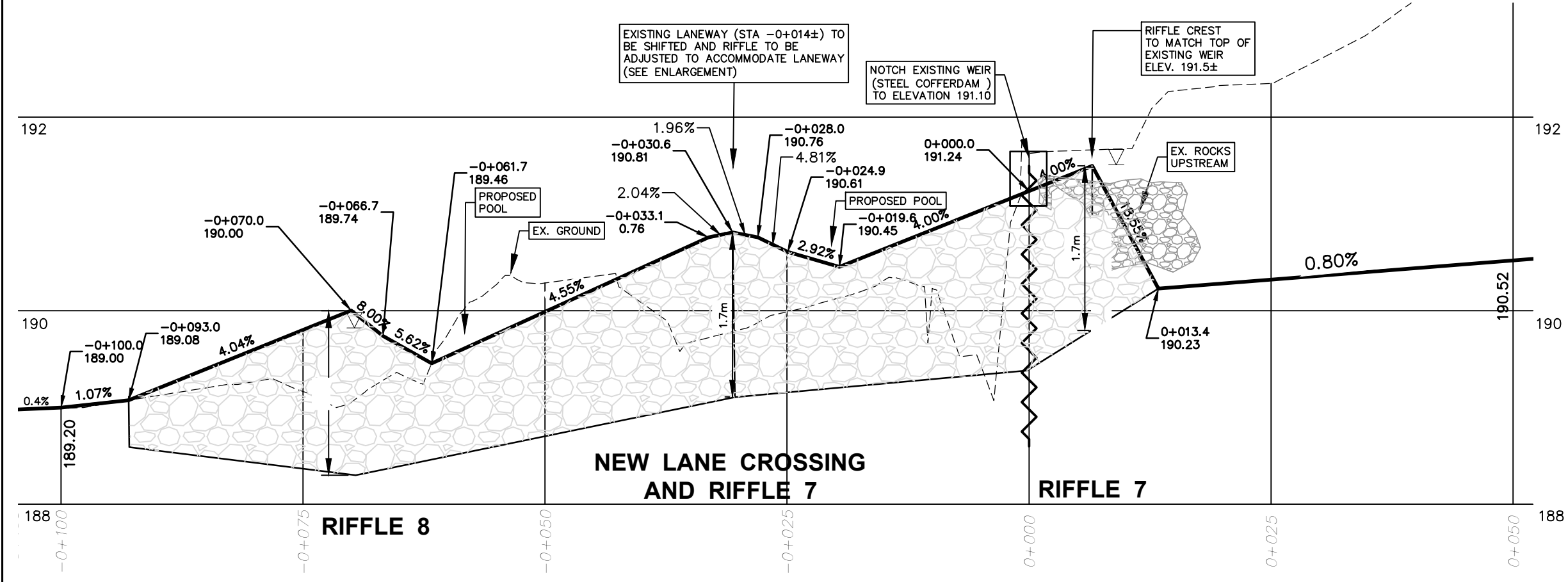
CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE H
RIFFLE 6

	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 14 OF 31



- PLAN LEGEND**
- C/L OF EXISTING DRAIN
 - C/L PROPOSED
 - EXISTING BANK
 - EXISTING TOE
 - APPROX. BUSH/ TREELINE
 - PROPERTY LINE
- 0+000** -KSA EXISTING DITCH STATION (IN METRES) 2015
- 0+000** -KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-04300** -ASSESSMENT ROLL NUMBER
- DENOTES RIFFLE STONE
 - VEGETATED RIPRAP BANK TREATMENT
 - DENOTES TOPSOIL LAYER
- TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
 - TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
- APPROXIMATE EXCAVATION LIMITS (MATCH EXISTING)
 - CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS

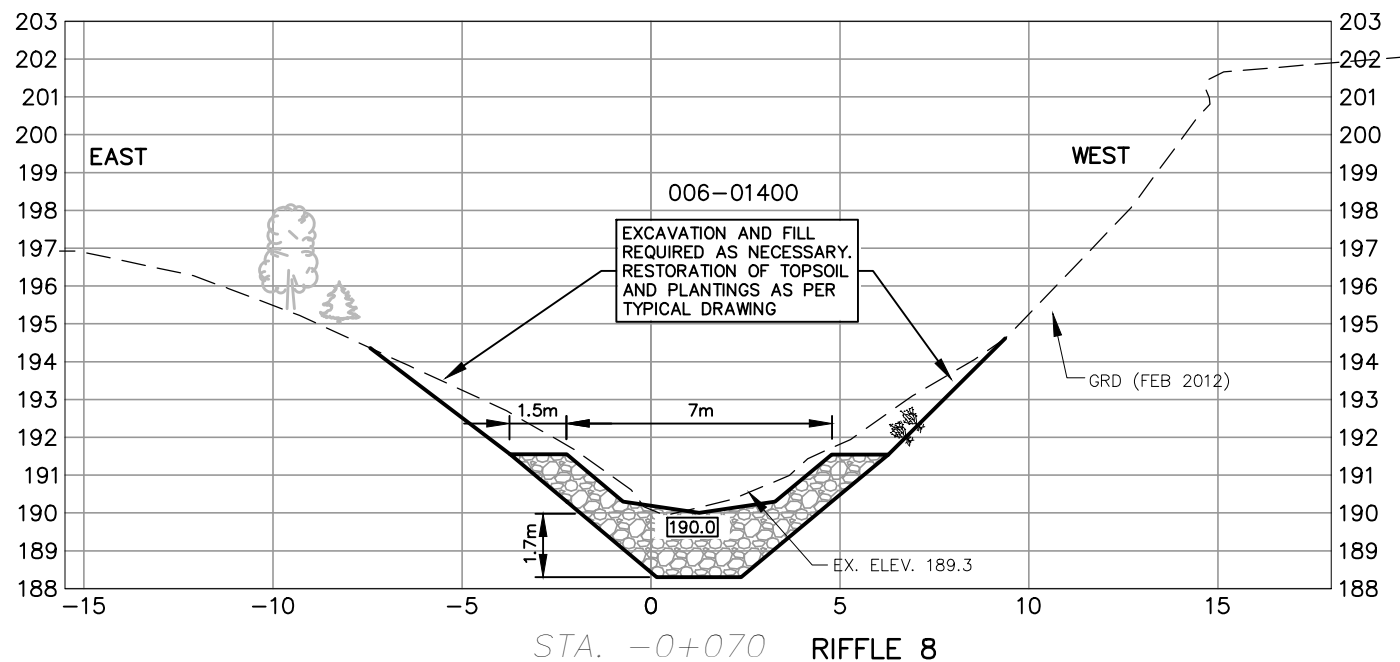
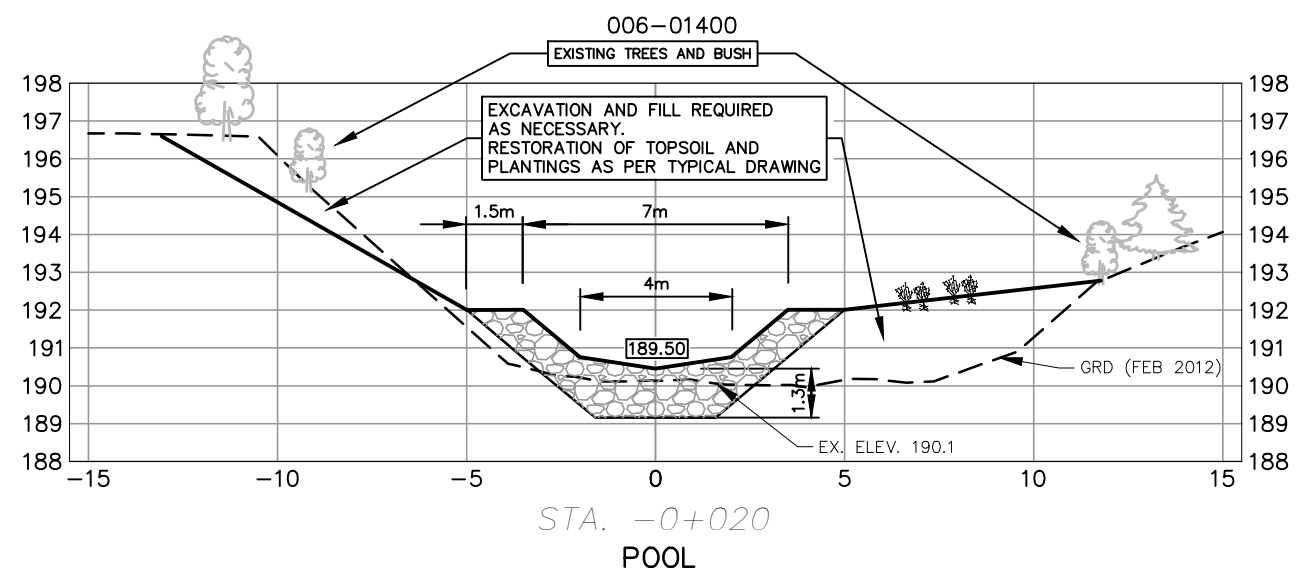
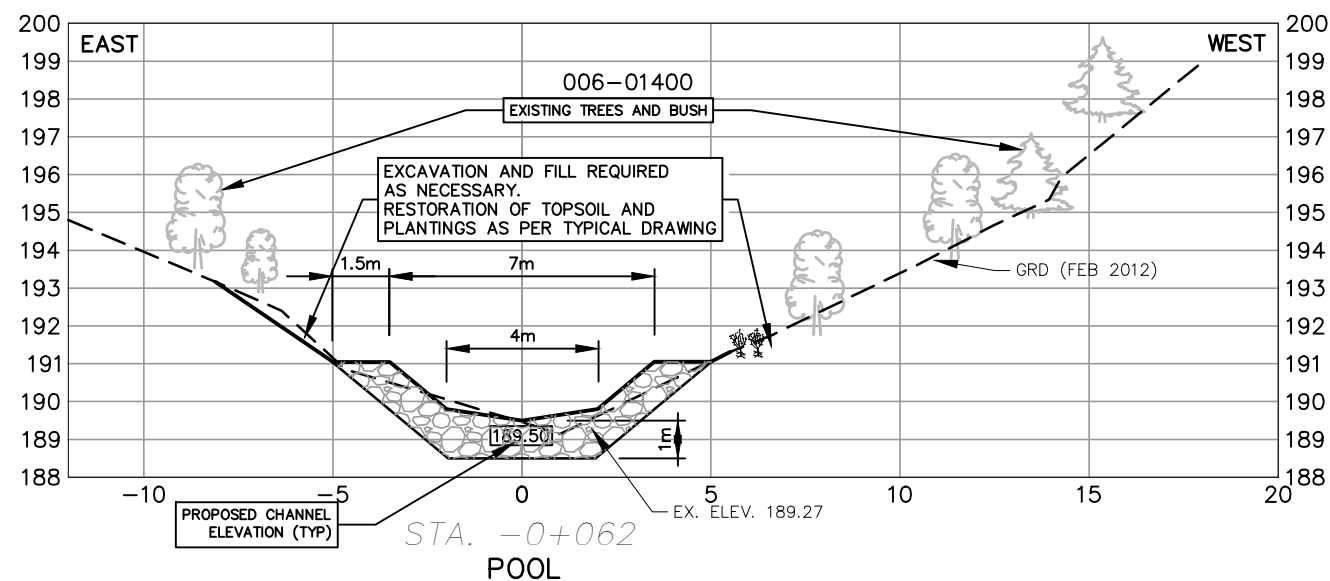
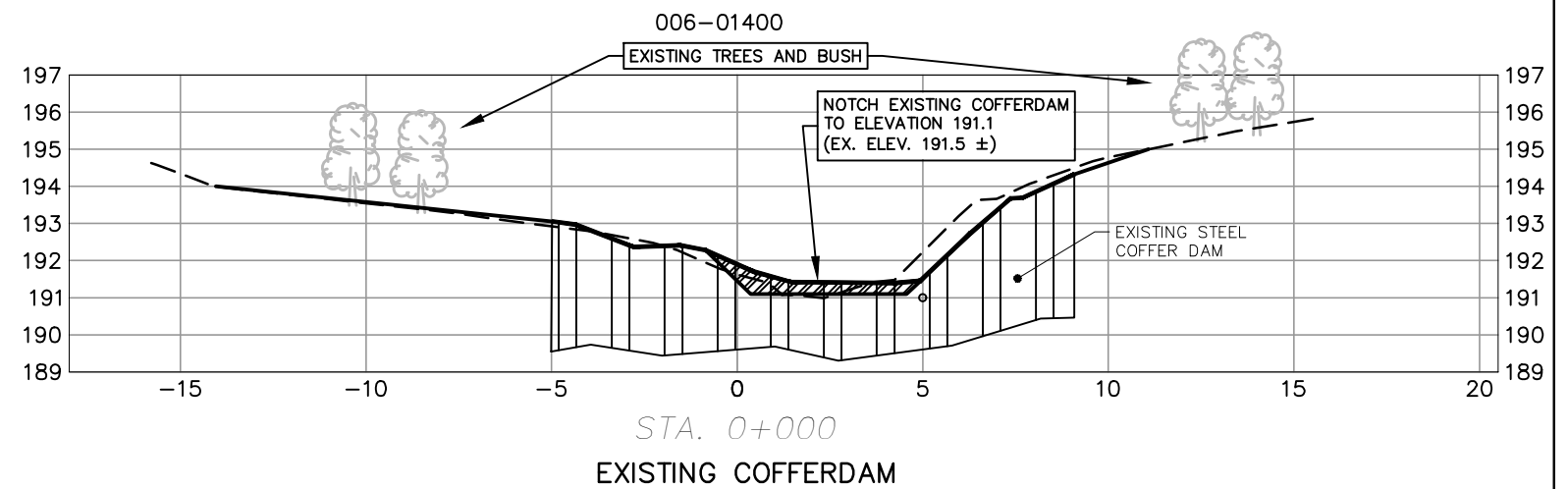
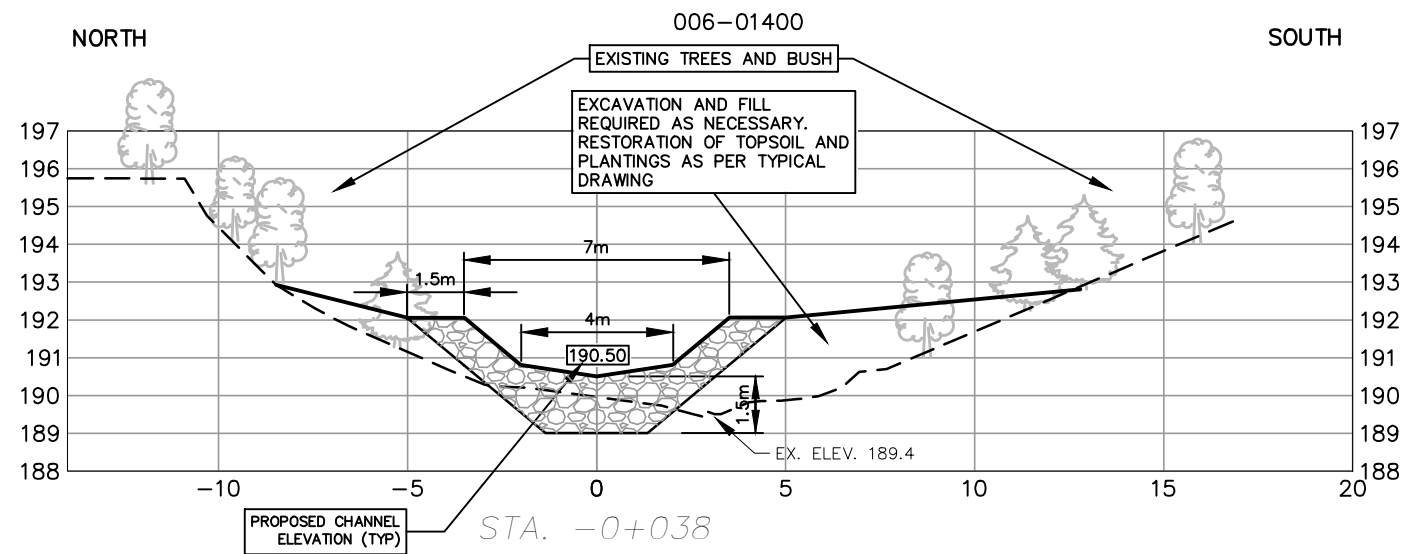


DESIGNED BY: N.W.M.		0 5 10m
CHECKED BY: N.W.M.		SCALE 1 : 500 HORZ.
DRAWN BY: N.M.B.		0 0.5 1m
CHECKED BY: N.W.M.		SCALE 1 : 50 VERT. (ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

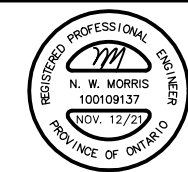
SITE J
RIFFLE 7 AND 8

	K. SMART ASSOCIATES LIMITED	ORIGINAL:
	CONSULTING ENGINEERS AND PLANNERS	NOV. 12, 2021
	KITCHENER SUDBURY	JOB NUMBER: 11-090
		DRAWING
		15 OF 31



**SECTIONS
ARE ALONG PROPOSED
ALIGNMENT CENTERLINE**

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: N.M.B.
CHECKED BY: N.W.M.



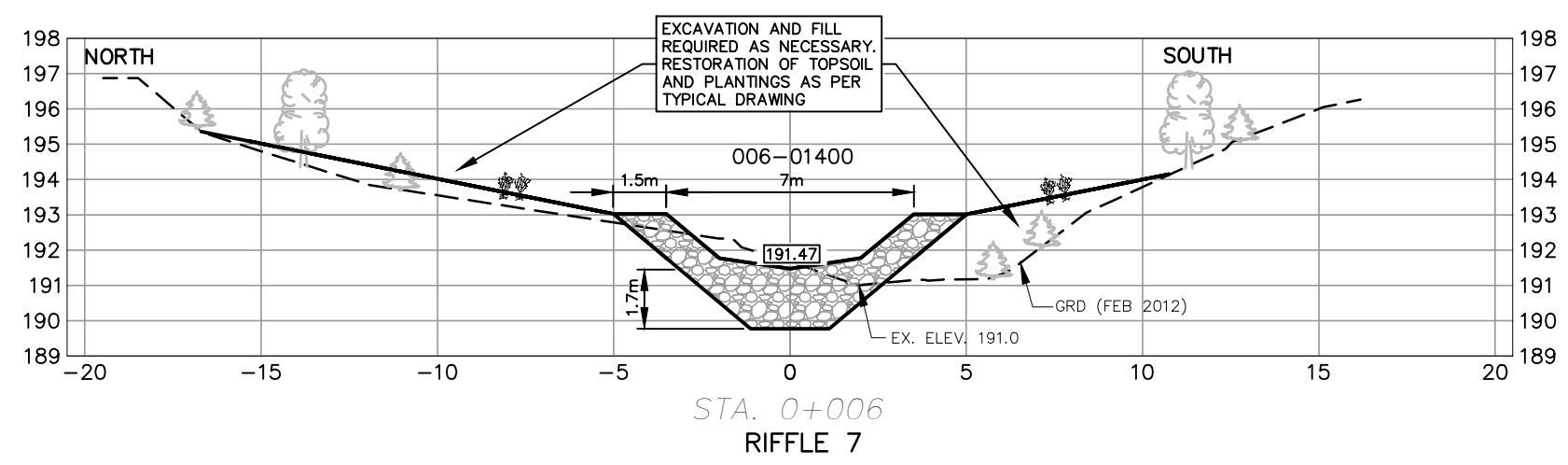
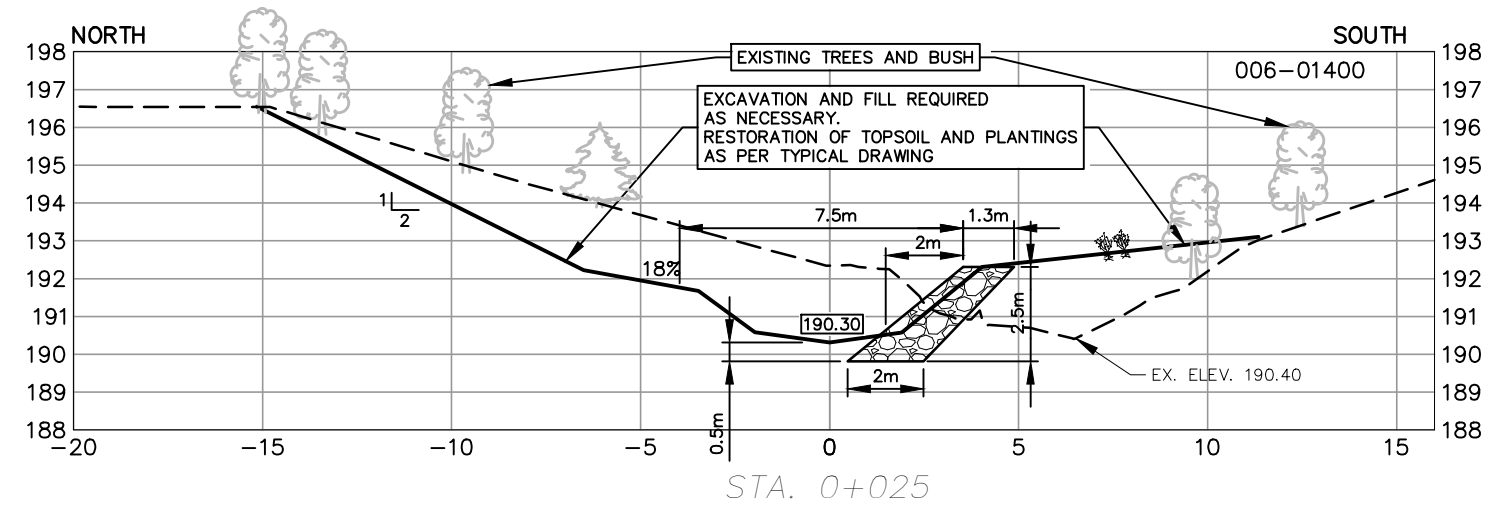
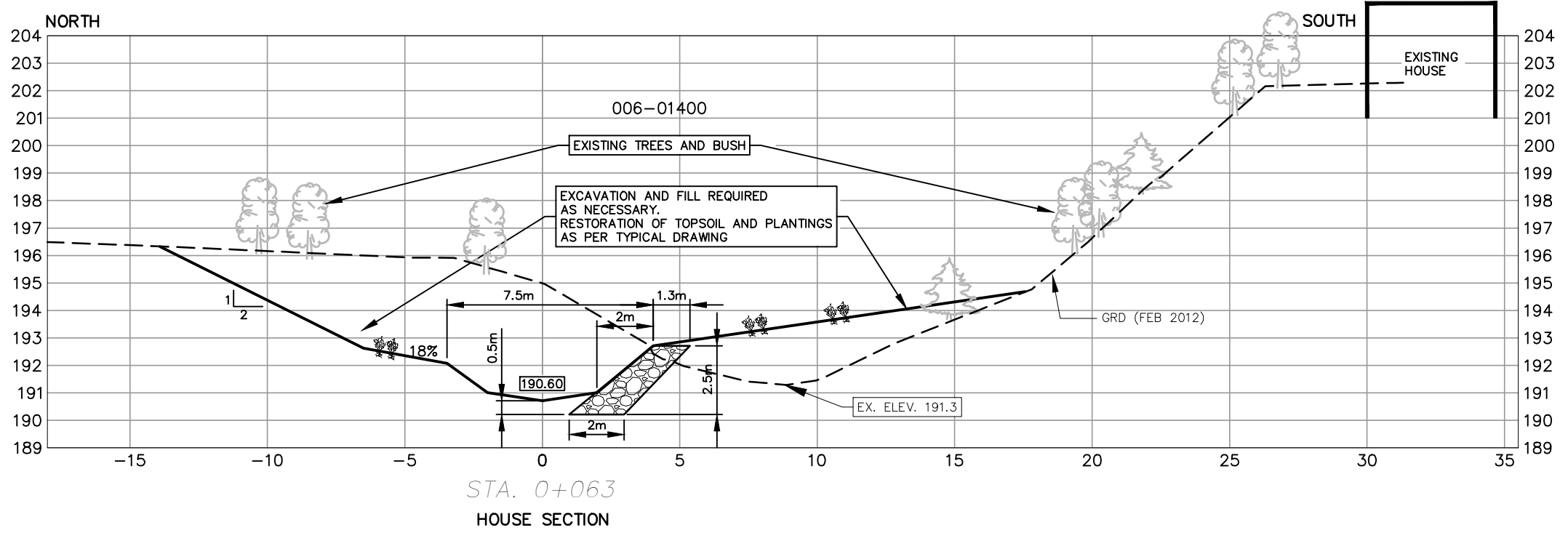
0 2 4m
SCALE 1 : 200
HORZ.
0 2 4m
SCALE 1 : 200
VERT.
(ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

**SITE J
SECTION 1**

K. SMART ASSOCIATES LIMITED
CONSULTING ENGINEERS AND PLANNERS
KITCHENER SUDBURY

ORIGINAL:
NOV. 12, 2021
JOB NUMBER: **11-090**
DRAWING
16 OF 31



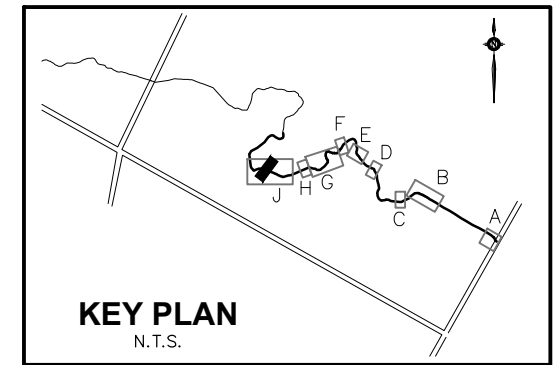
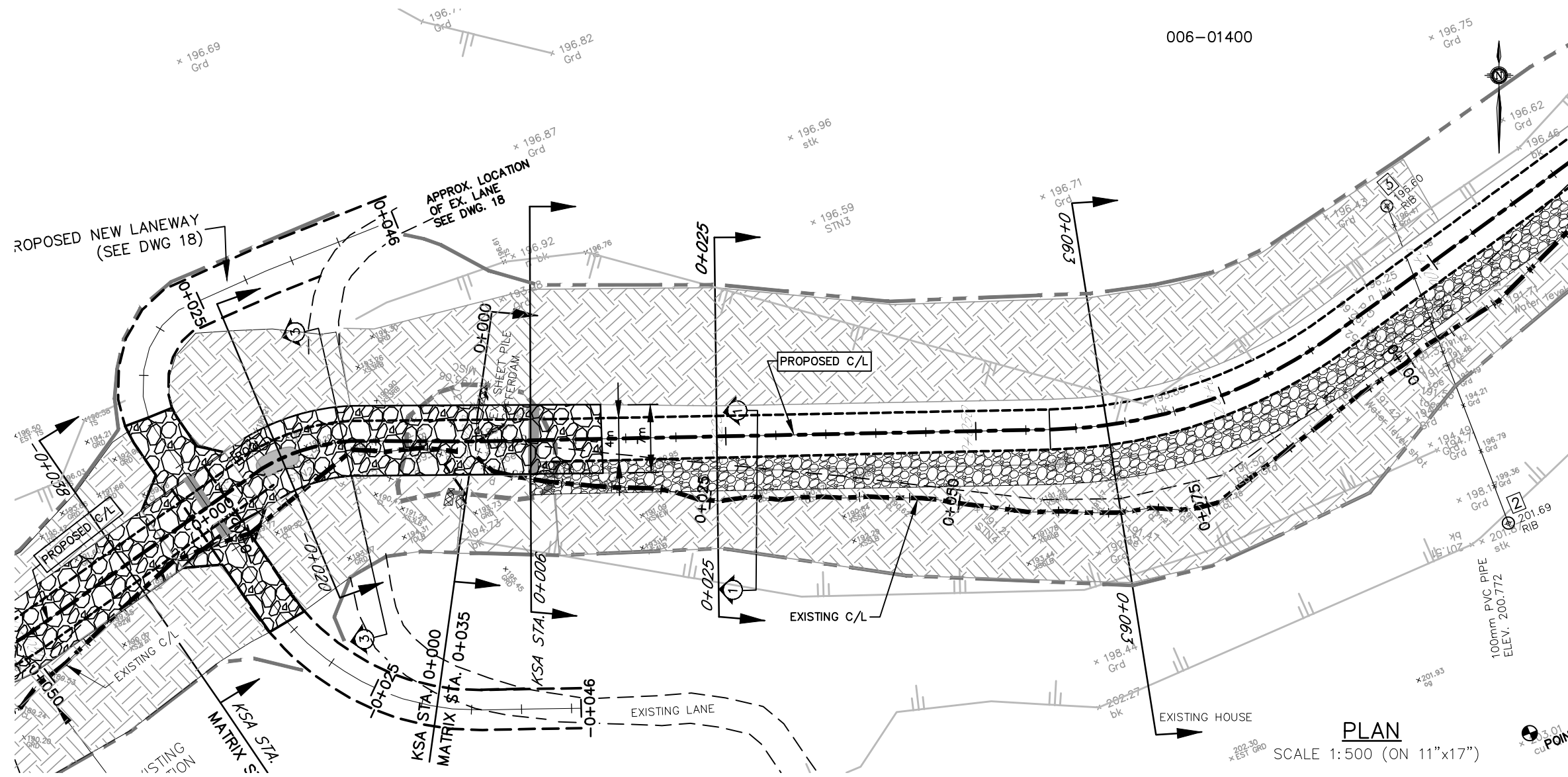
**SECTIONS ARE ALONG
PROPOSED ALIGNMENT
CENTERLINE**

DESIGNED BY: N.W.M.		0 2 4m SCALE 1 : 200 HORZ.
CHECKED BY: N.W.M.		0 2 4m SCALE 1 : 200 VERT.
DRAWN BY: N.M.B.		(ON 11"x17")
CHECKED BY: N.W.M.		

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

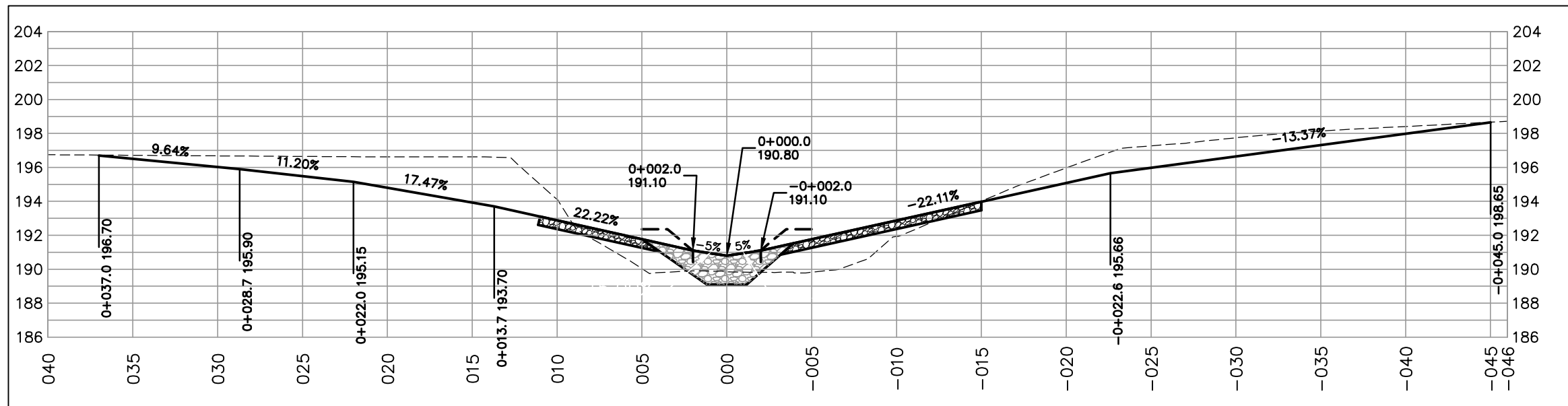
**SITE J
SECTIONS 2**

	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 17 OF 31



- PLAN LEGEND**
- C/L OF EXISTING DRAIN
 - C/L PROPOSED
 - EXISTING BANK
 - EXISTING TOE
 - APPROX. BUSH/ TREELINE
 - PROPERTY LINE
 - 0+000** - KSA 2015 SURVEY STATION (IN METRES)
 - 0+000** - KSA PROPOSED REALIGNMENT STATION (IN METRES)
 - 006-01400** - ASSESSMENT ROLL NUMBER
 - DENOTES RIFFLE STONE
 - VEGETATED RIPRAP BANK TREATMENT
 - DENOTES TOPSOIL LAYER
 - | |
|-------------|
| 4880218.935 |
| 441697.432 |

 - DENOTES NORTHING AND EASTING
 - TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
 - CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS

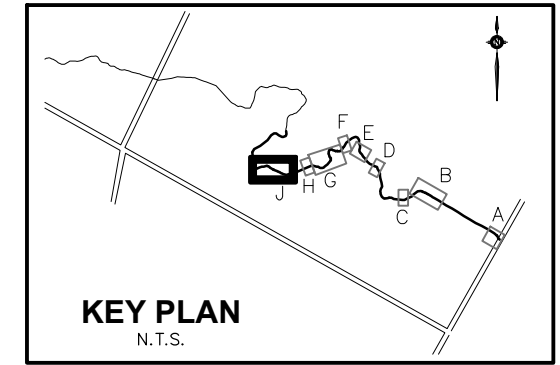


DESIGNED BY: N.W.M.	
CHECKED BY: N.W.M.	
DRAWN BY: N.M.B.	
CHECKED BY: N.W.M.	







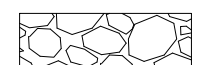


CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS





SITE J
LANE CROSSING

	K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
		JOB NUMBER: 11-090
		DRAWING 18 OF 31

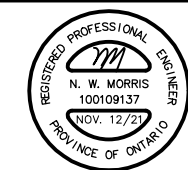


PLAN LEGEND

-  -C/L OF EXISTING DRAIN
-  -C/L PROPOSED
-  -EXISTING BANK
-  -EXISTING TOE
-  -APPROX. BUSH/ TREELINE
-  -PROPERTY LINE
- 0+000** -KSA 2015 SURVEY STATION (IN METRES)
- 0+000** -KSA PROPOSED REALIGNMENT STATION (IN METRES)
- 006-01400** -ASSESSMENT ROLL NUMBER
-  -DENOTES RIFFLE STONE
-  -VEGETATED RIPRAP BANK TREATMENT
-  -DENOTES TOPSOIL LAYER
- 4880218.935
441697.432

 -DENOTES NORTHING AND EASTING
-   -TRAN SECTION CONTROL POINT (PIN) NUMBER AND LOCATION
-   -CROSS SECTION NUMBER AND LOCATION PER APPENDIX DRAWINGS

DESIGNED BY: N.W.M.
 CHECKED BY: N.W.M.
 DRAWN BY: N.M.B.
 CHECKED BY: N.W.M.



SCALE
 0 5 10m
 1:500
 (ON 11"x17")

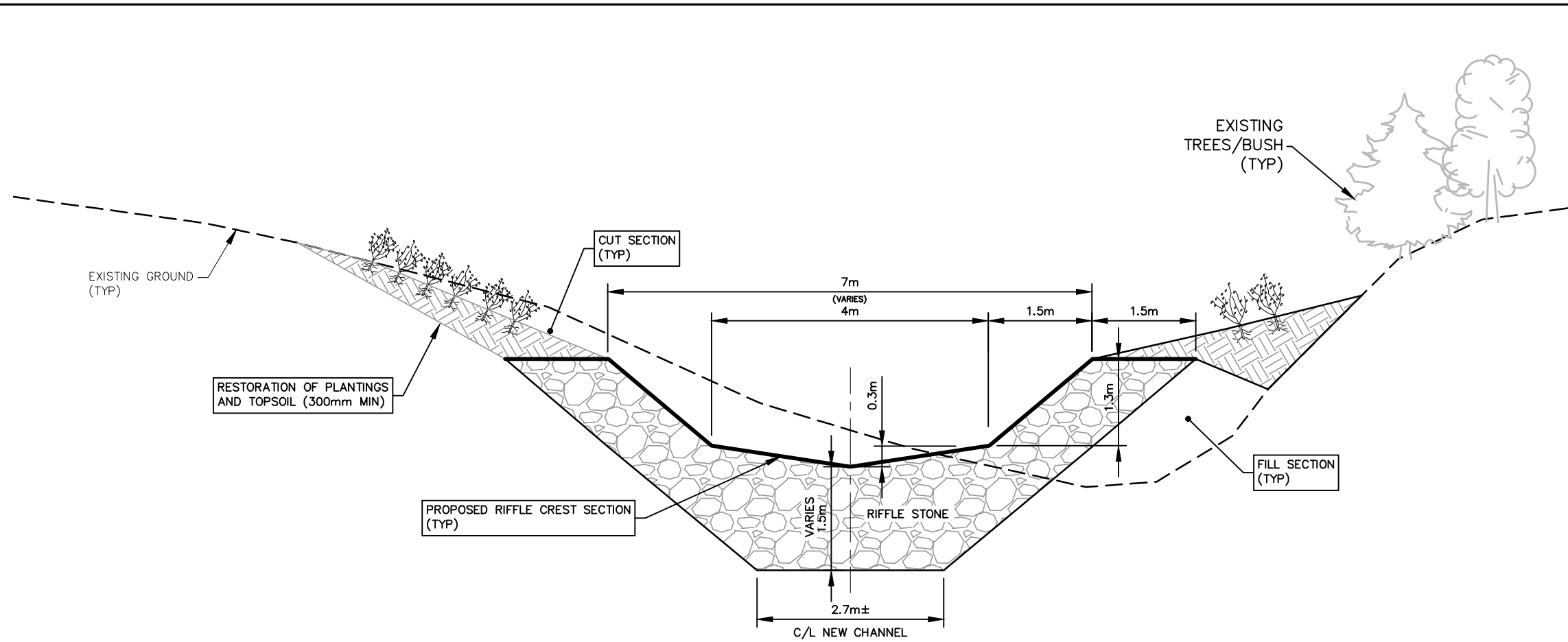
CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE J
HOUSE - AERIAL ENLARGEMENT

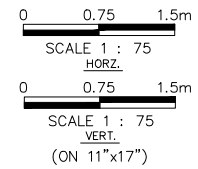
 K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 19 OF 31

**SECTIONS ARE ALONG
 PROPOSED ALIGNMENT
 CENTERLINE**


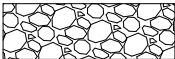

**SEE APPENDIX _____
 MATRIX SOLUTIONS INC.
 DRAWINGS 08 AND 09**



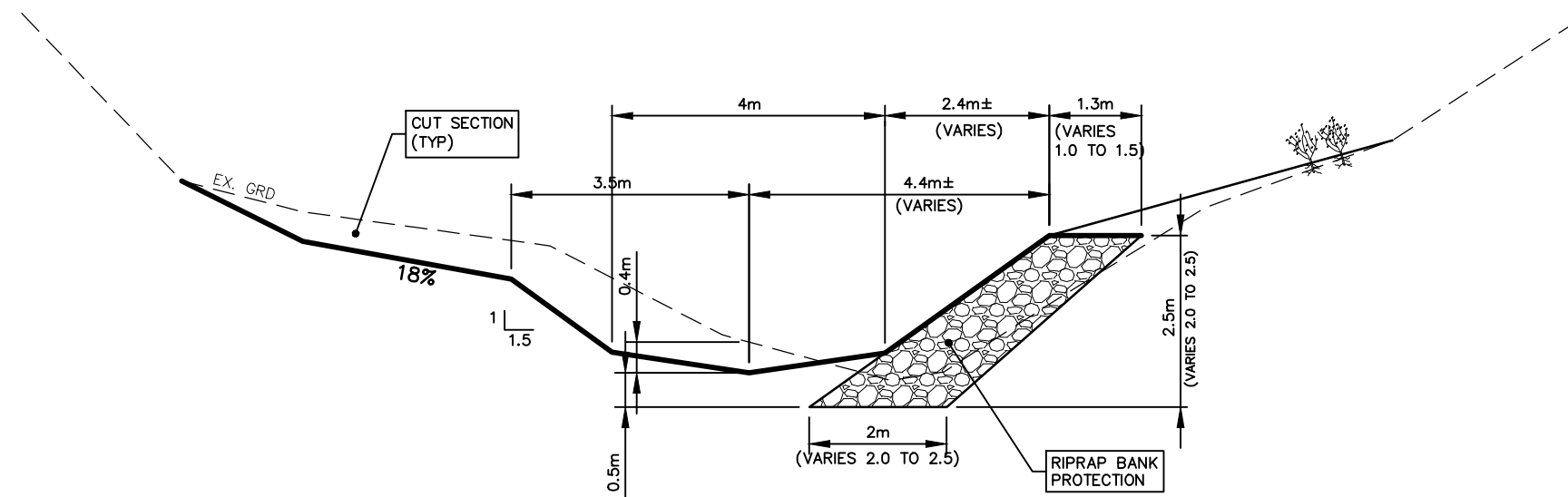
TYPICAL RIFFLE SECTION



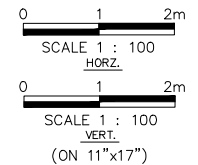
PLAN LEGEND


-  -DENOTES RIFFLE STONE
-  -VEGETATED RIPRAP BANK TREATMENT
-  -DENOTES TOPSOIL LAYER

**SEE APPENDIX _____
MATRIX SOLUTIONS INC.
DRAWING 10**



BANK PROTECTION

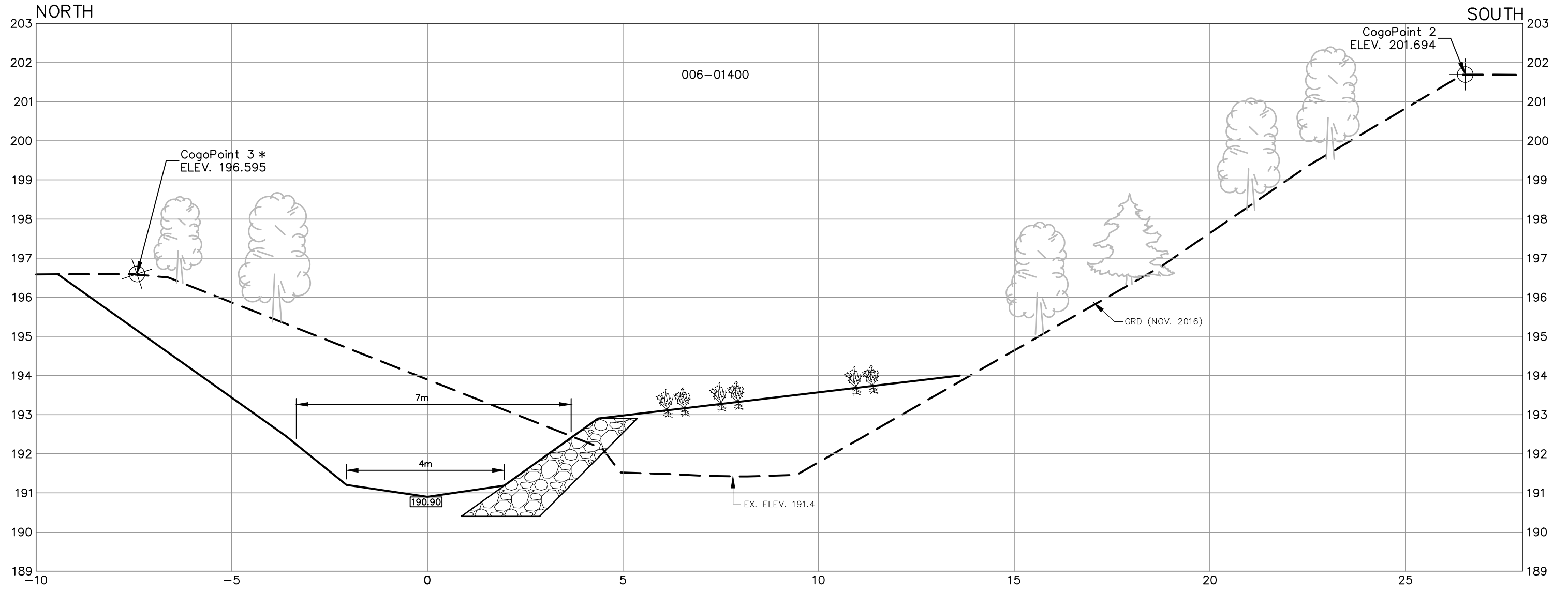
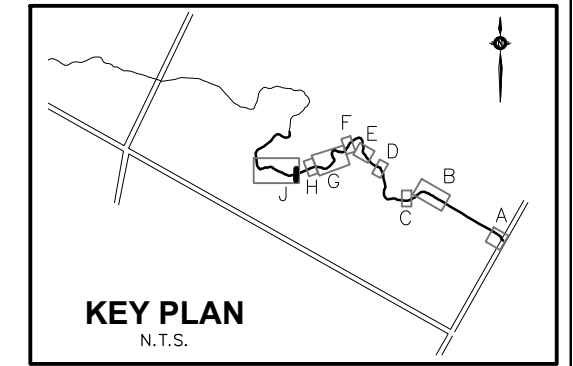


DESIGNED BY: N.W.M.		SECTION SCALE 0 0.75 1.5m
CHECKED BY: N.W.M.		SCALE 1 : 75 HORZ.
DRAWN BY: N.M.B.		0 0.75 1.5m
CHECKED BY: N.W.M.		SCALE 1 : 75 VERT. (ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

**TYPICAL RIFFLE DETAIL
CHANNEL EXCAVATION AND BANK PROTECTION**

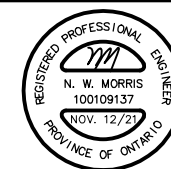
 K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 20 OF 31



STA. 0+098 PROPOSED REALIGNMENT=STA. 0+105 EXISTING

* NOTE:
TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION.
RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.

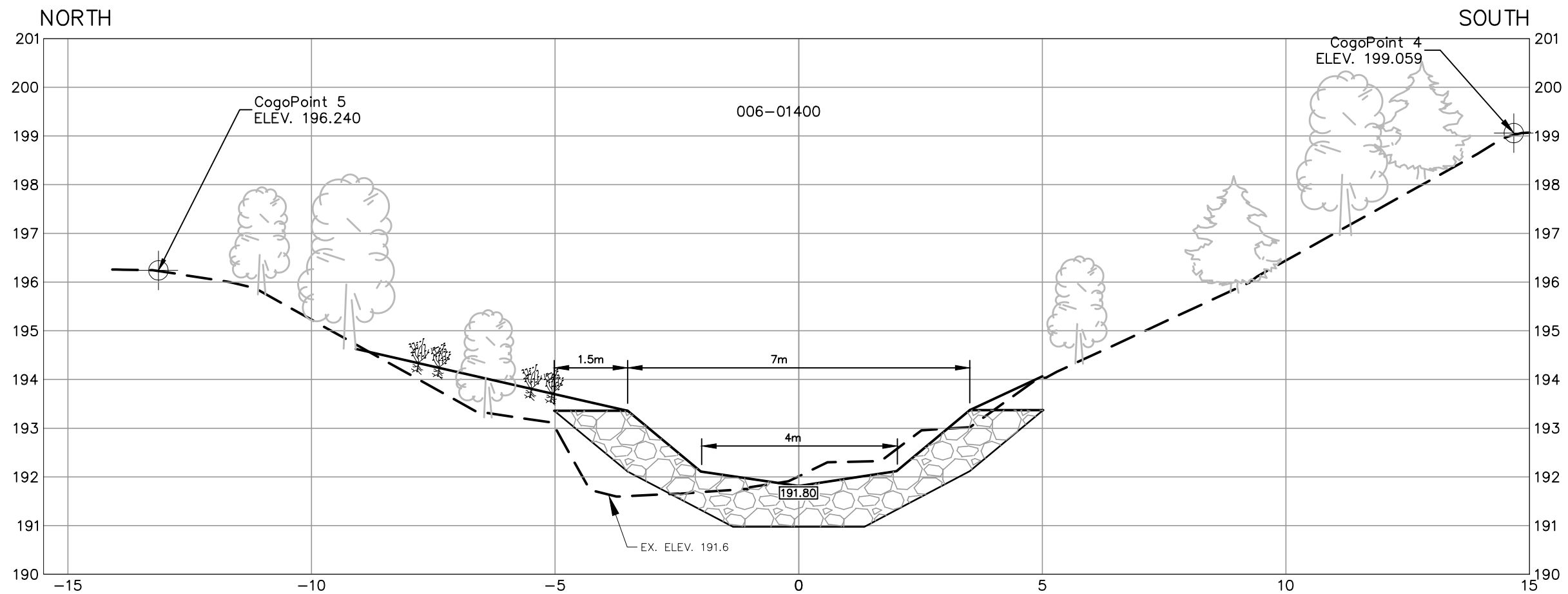
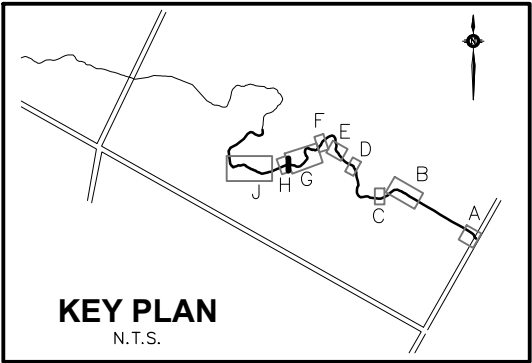


0 1 2m
SCALE 1 : 100
HORZ.
0 1 2m
SCALE 1 : 100
VERT.
(ON 11"x17")

CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE J
SECTION - MONITOR PINS 2-3

<p>K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY</p>	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 23 OF 31

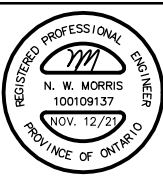


STA. 0+181
 STA. 0+181 PROPOSED REALIGNMENT=STA. 0+189 EXISTING

CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE H
SECTION - MONITOR PINS 4 - 5

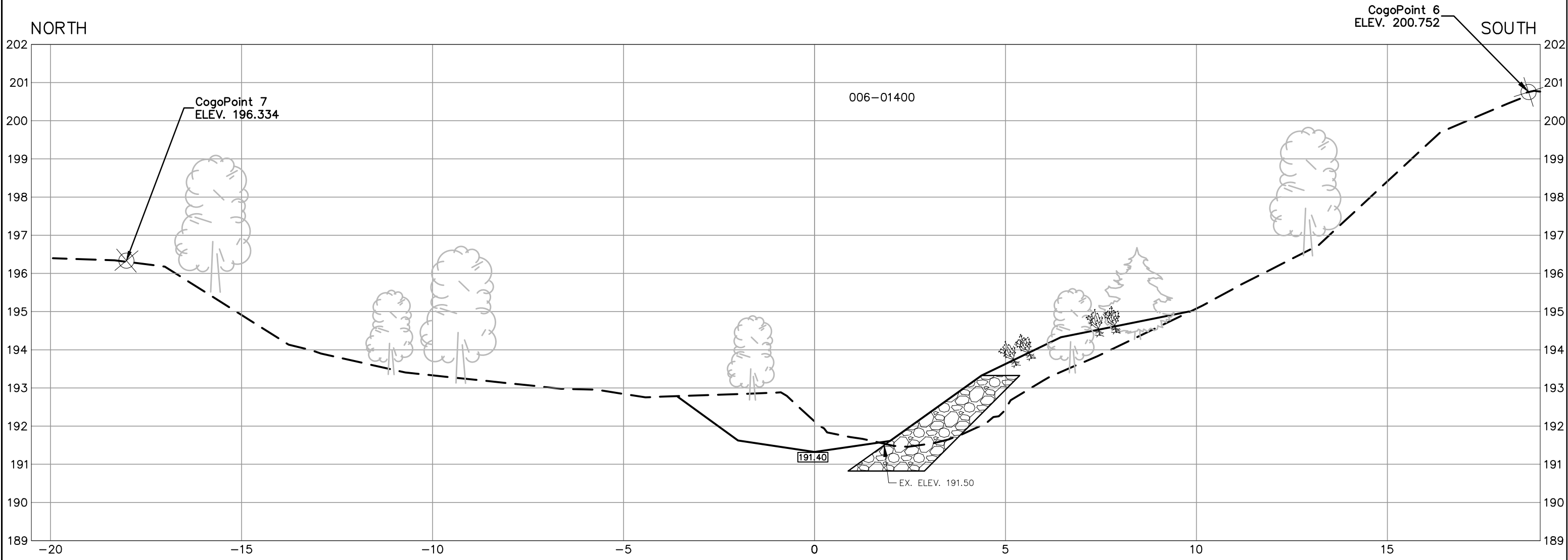
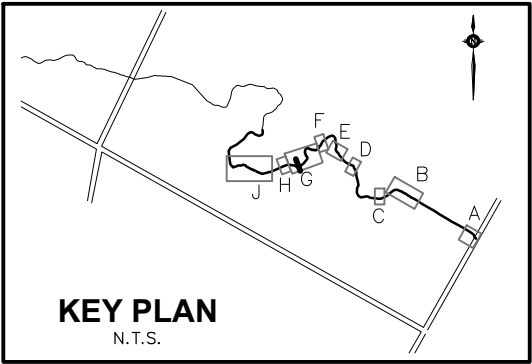
DESIGNED BY: N.W.M.
 CHECKED BY: N.W.M.
 DRAWN BY: R.A.M.
 CHECKED BY: N.W.M.



0 1 2m
 SCALE 1 : 100
 HORZ.
 0 1 2m
 SCALE 1 : 100
 VERT.
 (ON 11"x17")

K. SMART ASSOCIATES LIMITED
 CONSULTING ENGINEERS AND PLANNERS
 KITCHENER SUDBURY

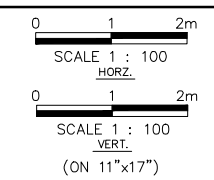
ORIGINAL:
NOV. 12, 2021
 JOB NUMBER: **11-090**
 DRAWING
24 OF 31



STA. 0+222
 STA. 0+222 PROPOSED REALIGNMENT=STA. 0+232 EXISTING

REVISED: _____, 2021

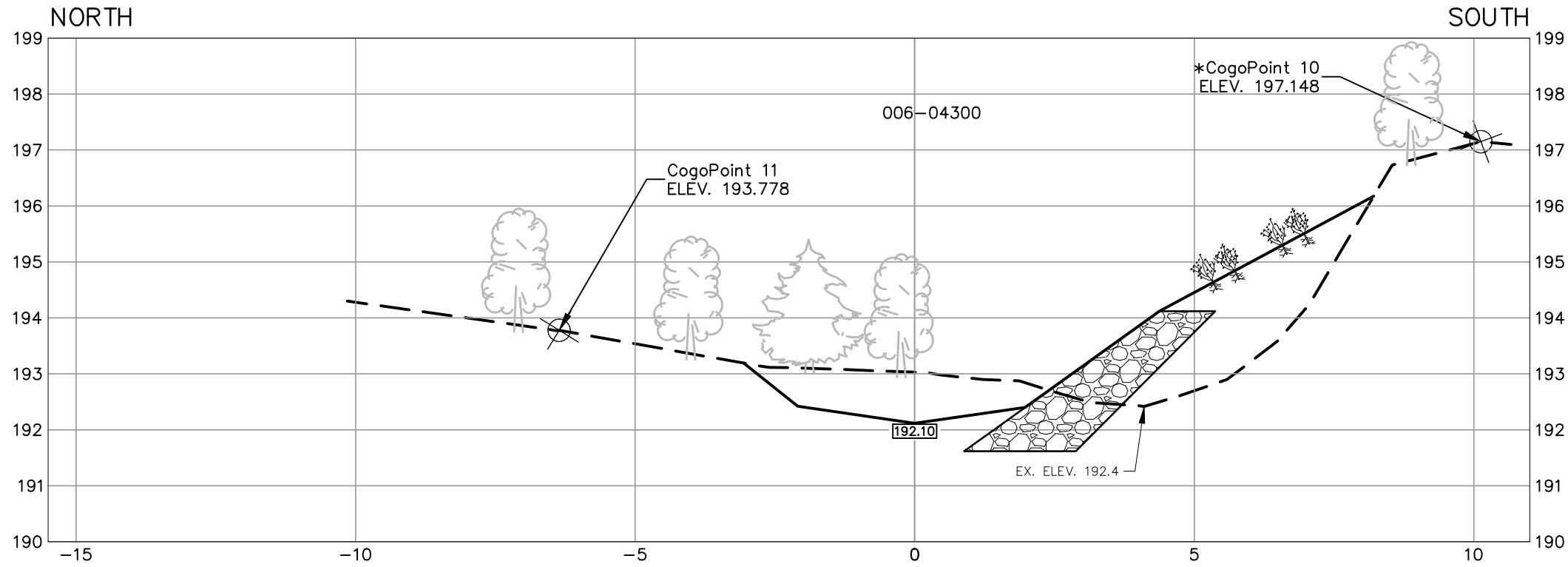
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.



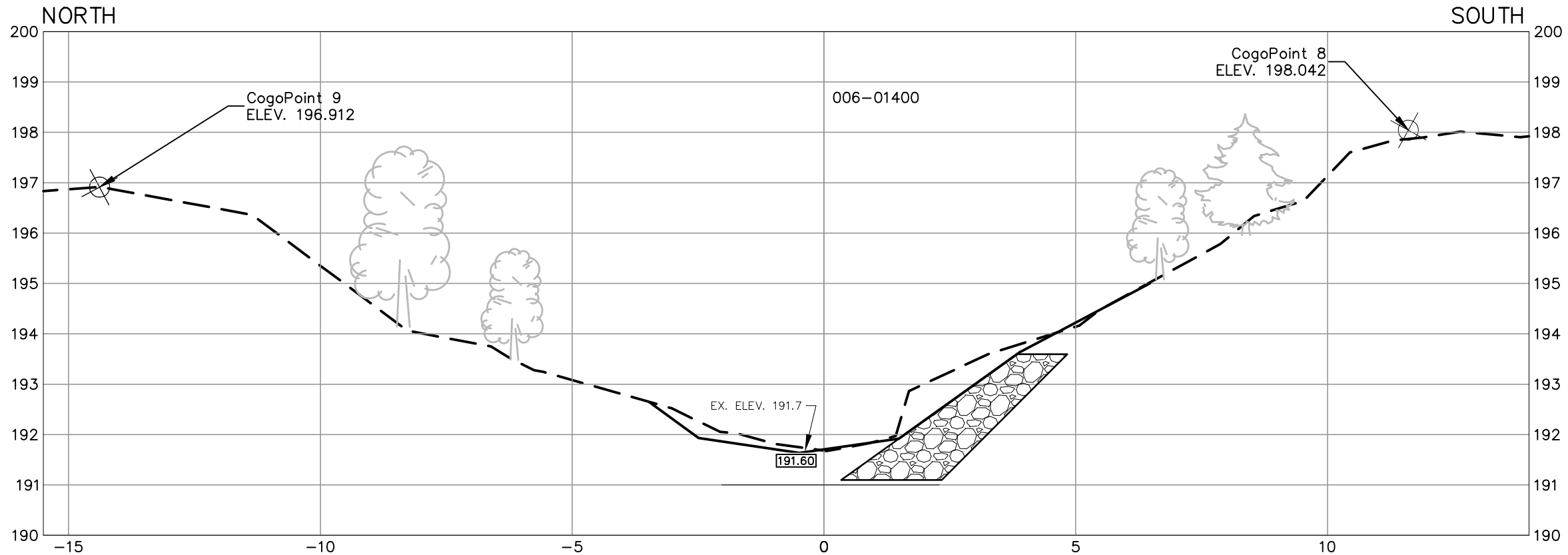
CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE G
SECTION - MONITOR PINS 6 - 7

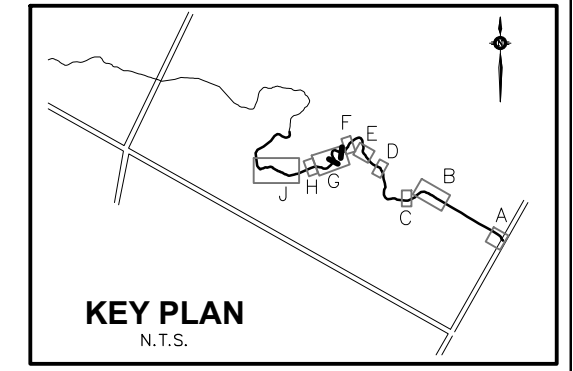
 K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 25 OF 31



STA. 0+340 **SITE F**
 STA. 0+340 PROPOSED REALIGNMENT=STA. 0+366 EXISTING



STA. 0+266 **SITE G**
 STA. 0+266 PROPOSED REALIGNMENT=STA. 0+278 EXISTING



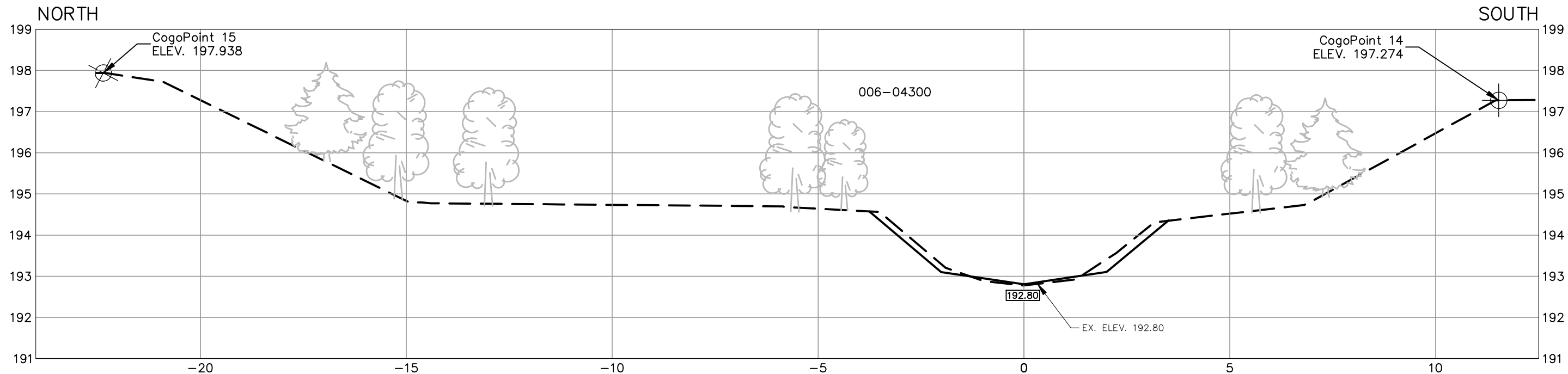
* NOTE:
 TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION.
 RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

DESIGNED BY: N.W.M.		0 1 2m
CHECKED BY: N.W.M.		SCALE 1 : 100 HORZ.
DRAWN BY: R.A.M.		0 1 2m
CHECKED BY: N.W.M.		SCALE 1 : 100 VERT. (ON 11"x17")

CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

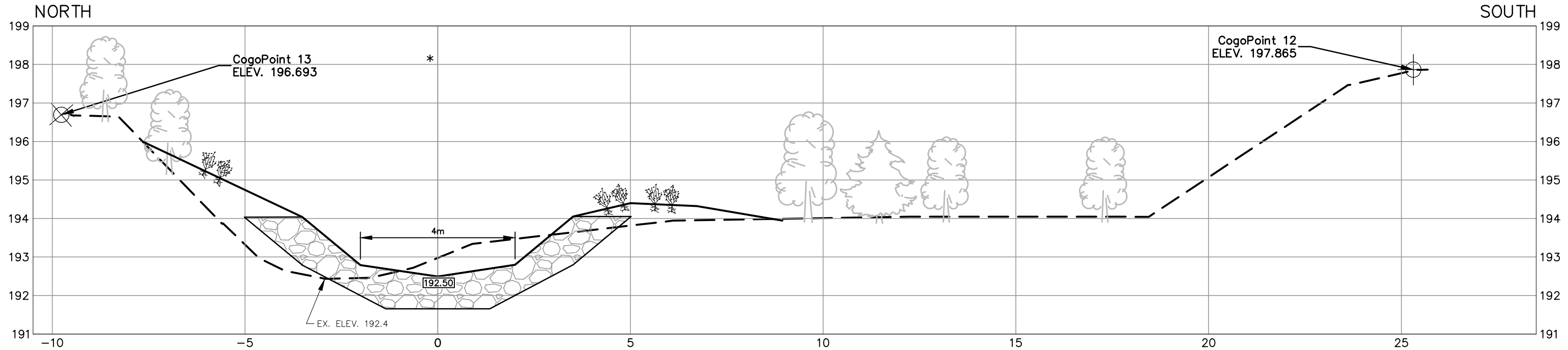
SITE G
SECTION - MONITOR PINS 8-9, 10-11

	K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
		JOB NUMBER: 11-090
		DRAWING 26 OF 31



STA. 0+474 **SITE E**

STATION 0+474 PROPOSED REALIGNMENT=STA. 0+505 EXISTING

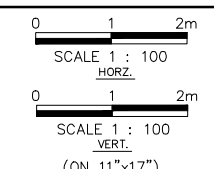
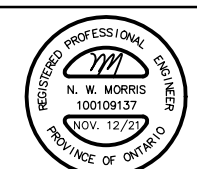


STA. 0+387 **SITE F**

STATION 0+387 PROPOSED REALIGNMENT=STA. 0+418 EXISTING

* **NOTE:**
 TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION.
 RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

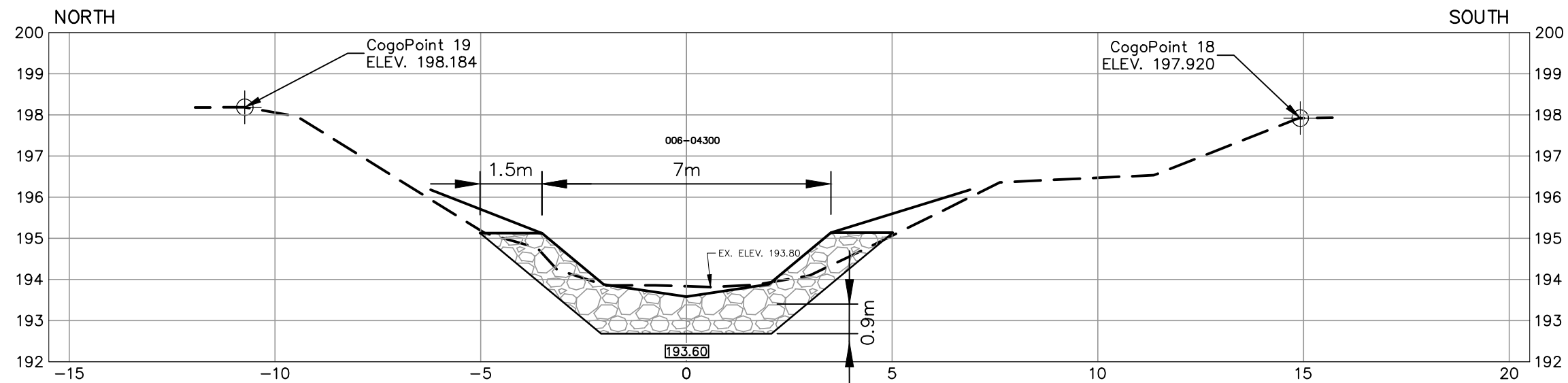
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.



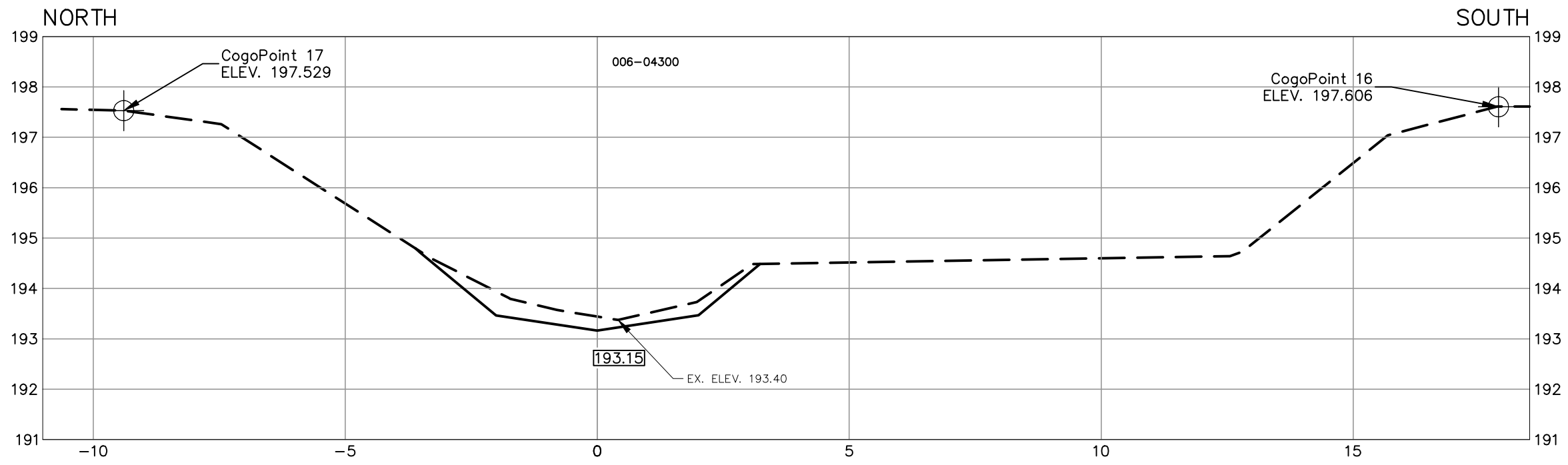
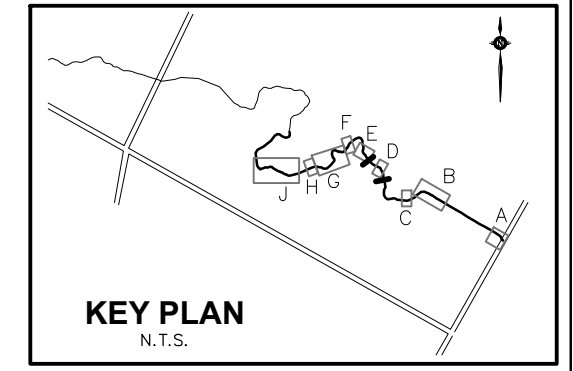
CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE E AND F
SECTION - MONITOR PINS 12 - 13, 14-15

 K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
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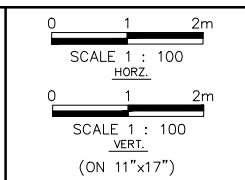
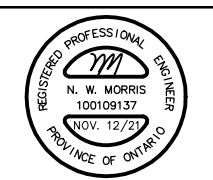


STA. 0+649 PROPOSED REALIGNMENT=STA. 0+684 EXISTING
RIFFEL 4A



STA. 0+539 PROPOSED REALIGNMENT=STA. 0+572± EXISTING

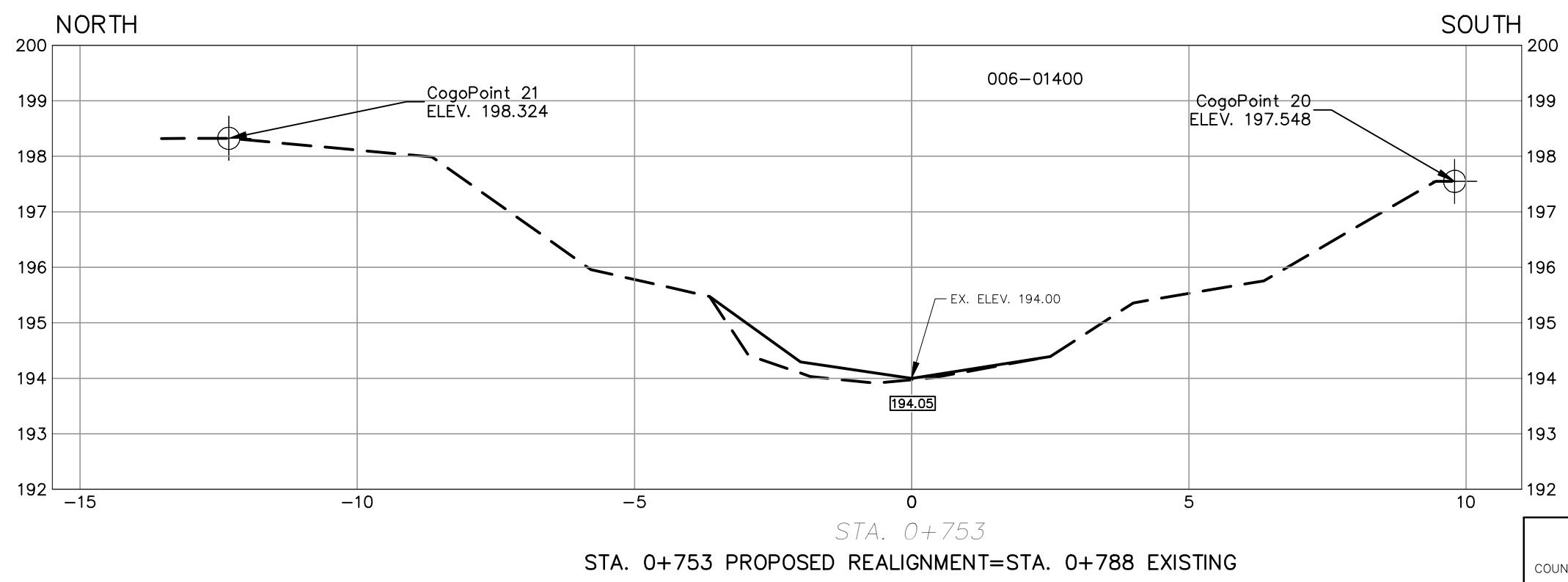
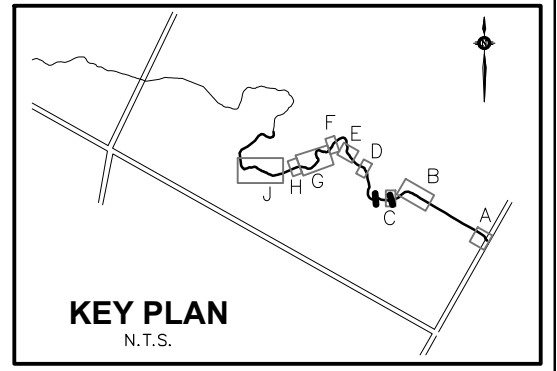
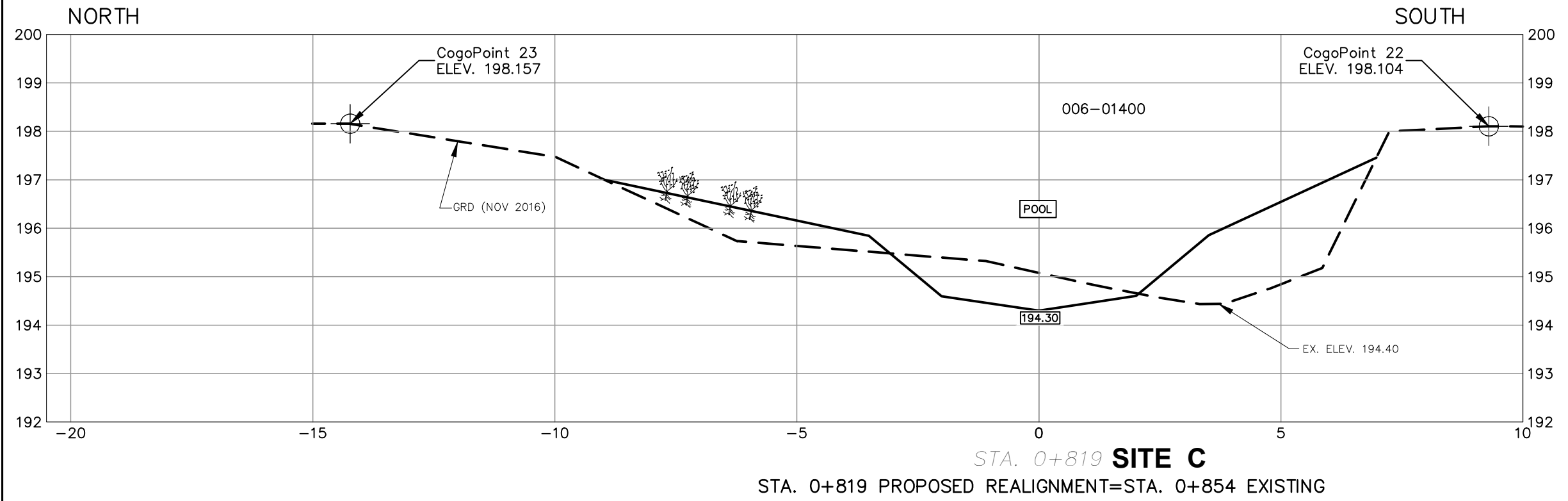
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.



CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

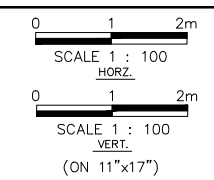
SECTION - MONITOR PINS 16-17, 18-19

<p>K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY</p>	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING 28 OF 31



* NOTE:
TRAN SECTION CONTROL PIN TO BE MOVED AWAY FROM EXCAVATION.
RESET ON SAME HORIZONTAL LINE AND SAME ELEVATIONS (IF POSSIBLE)

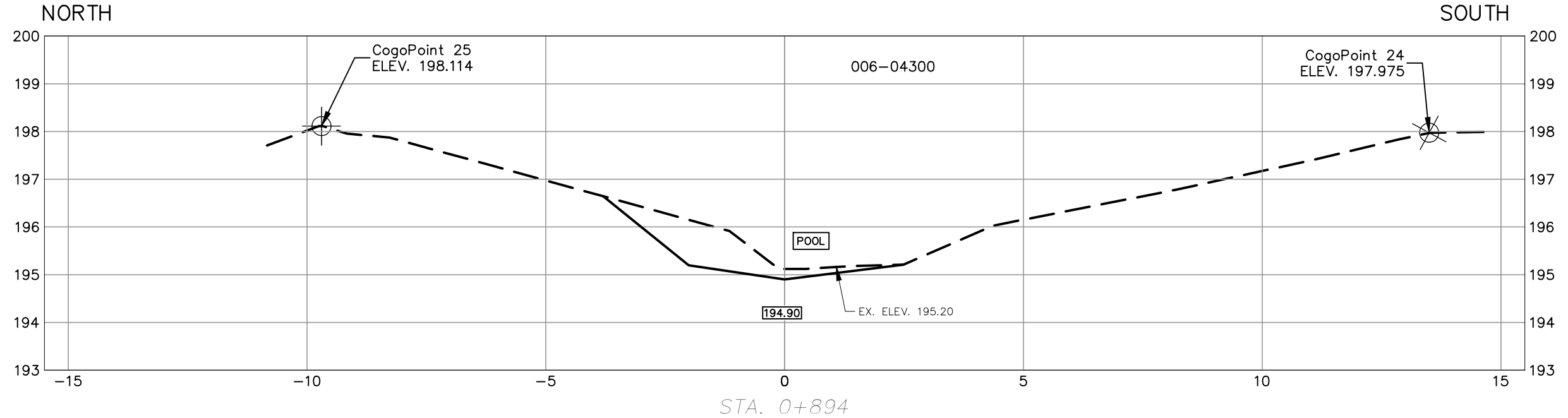
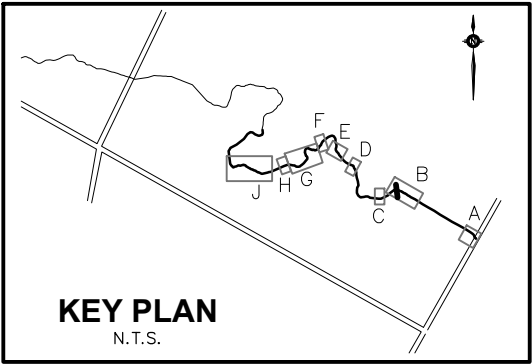
DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.



CLARK CREEK DRAIN 2015
COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SECTION - MONITOR PINS 20-21 AND 22-23

<p>K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY</p>	ORIGINAL:	NOV. 12, 2021
	JOB NUMBER:	11-090
	DRAWING	29 OF 31



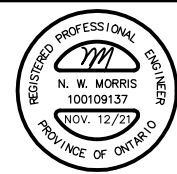
STA. 0+894 PROPOSED REALIGNMENT=STA. 0+931 EXISTING

CLARK CREEK DRAIN 2015
 COUNTY OF BRUCE TOWNSHIP OF HURON-KINLOSS

SITE B
SECTION - MONITOR PINS 24-25

K. SMART ASSOCIATES LIMITED CONSULTING ENGINEERS AND PLANNERS KITCHENER SUDBURY	ORIGINAL: NOV. 12, 2021
	JOB NUMBER: 11-090
	DRAWING: 30 OF 31

DESIGNED BY: N.W.M.
CHECKED BY: N.W.M.
DRAWN BY: R.A.M.
CHECKED BY: N.W.M.



0 1 2m
 SCALE 1 : 100
 HORZ.
 0 1 2m
 SCALE 1 : 100
 VERT.
 (ON 11"x17")

300) CONSTRUCTION NOTES (SPECIAL PROVISIONS)

300 .1) SPECIFIC NOTES

(-18+00) – 1964 Station in feet
1+600 – KSA 2015 Station in metres

Stations	Description
i) Site J	
-0+075 to 0+135	210m of channel realignment (4m wide bottom, 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils and plantings (3,470m ²)
-0+093 to 0+135	Construct riffles 7 & 8 (14,290m ³ riffle stone)
0+000 to 0+135	135m of vegetated riprap on south side (570m ³)
-0+025±	Construct 92m of new laneway including 200m ³ of extra riffle stone
0+000	Cut 5m wide x 0.4m high notch at steel cofferdam (weir)
ii) Site H	
0+135 to 0+200	65m of channel realignment (4m wide bottom, 2:1 side slopes) including filling in existing channel, stripping, saving and replacing topsoils and plantings (650m ²)
iii) Site G	
0+219 to 0+300	81m of vegetated riprap on south side (305m ³)
0+300 to 0+350	51m of vegetated riprap on south side (180m ³)
0+219 to 0+350	Topsoil layer and plantings (730m ² south side, 430m ² north side)
iv) Site F	
0+359 to 0+389	30m of vegetated riprap on south side (135m ³)
0+359 to 0+389	Topsoil layer and plantings (120m ² south side)
v) Site E	
0+482 to 0+514	32m of vegetated riprap on west side (160m ³)
0+482 to 0+514	Topsoil layer and plantings (130m ²)
vi) Site A	
1+280 to 1+307	27m of vegetated riprap on south side (105m ³)
1+280 to 1+307	Topsoil layer on south side and plantings (70m ²)

300.2) GENERAL NOTES

300.2.1.) Working Area

- As shown on the drawings
Refer to General Specifications 400.4 for exceptions.

300.2.2.) Access - General Condition 400.5

The Contractor shall have access to the drain along the routes, if any, shown on the plan. The access routes shall be along existing laneways or paths or where none exist, along a 6m wide (maximum) path. All specifications governing fences, livestock and crops during drain construction shall apply to access routes except where superseded by notes on the drawings. No other access routes shall be used unless first approved by the Engineer and affected landowner. The contractor shall also contact each owner prior to using designated accesses.

Landowners

To be added at time of tendering

Township of Huron-Kinloss 519-395-3735
K. Smart Associates Ltd. (Neal Morris, P.Eng., Proj. Eng.) 519-748-1199 Ex 240
One Call Centre 1-800-400-2055

300.2.3.) Alignment of Drains

All drains shall be constructed generally to the alignment as noted on the plans and as dictated by the Specific Notes. Existing fences near boundaries between properties shall be deemed to be in the proper location of the boundary unless otherwise noted by the affected landowners. In the absence of fences or other properly marked and located legal boundaries, the drain shall be located more or less on the lands as noted in the plans and specific notes without the benefit of a legal survey to confirm property lines.

Should the owners require a more precise location for the drains in relation to their property line or if there is a dispute about the location of the line, we recommend that they establish their legal property boundaries in advance of construction and/or advise the Engineer prior to construction of the concern re the property line location.

300.2.4.) Fences

All fences are to be both removed and re-erected by contractor unless described otherwise by notes on the drawings.
Refer to General Specification 400.24.
Refer to General Specification 400.25 re livestock and fences.

300.2.5.) Steel Sheet Piling

For the lump sum bid in the Form of Tender, the Contractor shall supply all necessary pile driving equipment, obtain access to site for pile driving and dismantle all equipment and remove off the site when they are no longer needed. The Contractor shall examine the site, obtain all necessary information and satisfy himself of all conditions necessary to gain access to the site. The Contractor shall not claim at any time during construction that there was any misunderstanding of the site conditions.

The Contractor shall supply and drive permanent steel sheet pile at the locations depicted on the Contract Drawings. Type, grade and thickness of sheeting shall be as described on the Contract Drawings unless otherwise approved by the Engineer.

Sheet piles may be either driven or vibrated into place to the toe elevations provided. Sheeting shall be cut level to the specified cut-off elevations. Upon completion of installation, the final product shall have plumb sides, level top with a uniform overall

appearance. Any deviations from plumb and level shall be corrected by the Contractor at no cost to the Township.

Sheet pile walls shall have a C150 x 16 channel tack welded on the downstream side as shown on the drawings. Minimum tack weld length to be 50mm. Welding shall conform to CSA Standard W59.

Splicing of permanent sheet pile is not permitted under this Contract.

If the Contractor cannot drive the sheet piles to the specified depth, the Contractor shall submit an alternative anchoring system to the Engineer for approval.

Measurement for payment will be made in lump sum payment.

Payment will be made as per the Form of Tender and shall be compensation in full for all materials, labour and equipment to complete the work.

300.2.6.) Soils Considerations

The soils adjacent to this drain are silty clay loam soils. The soil is mostly stone free, but occasionally large stones may be encountered during construction. The soils are amenable to the proposed construction.

