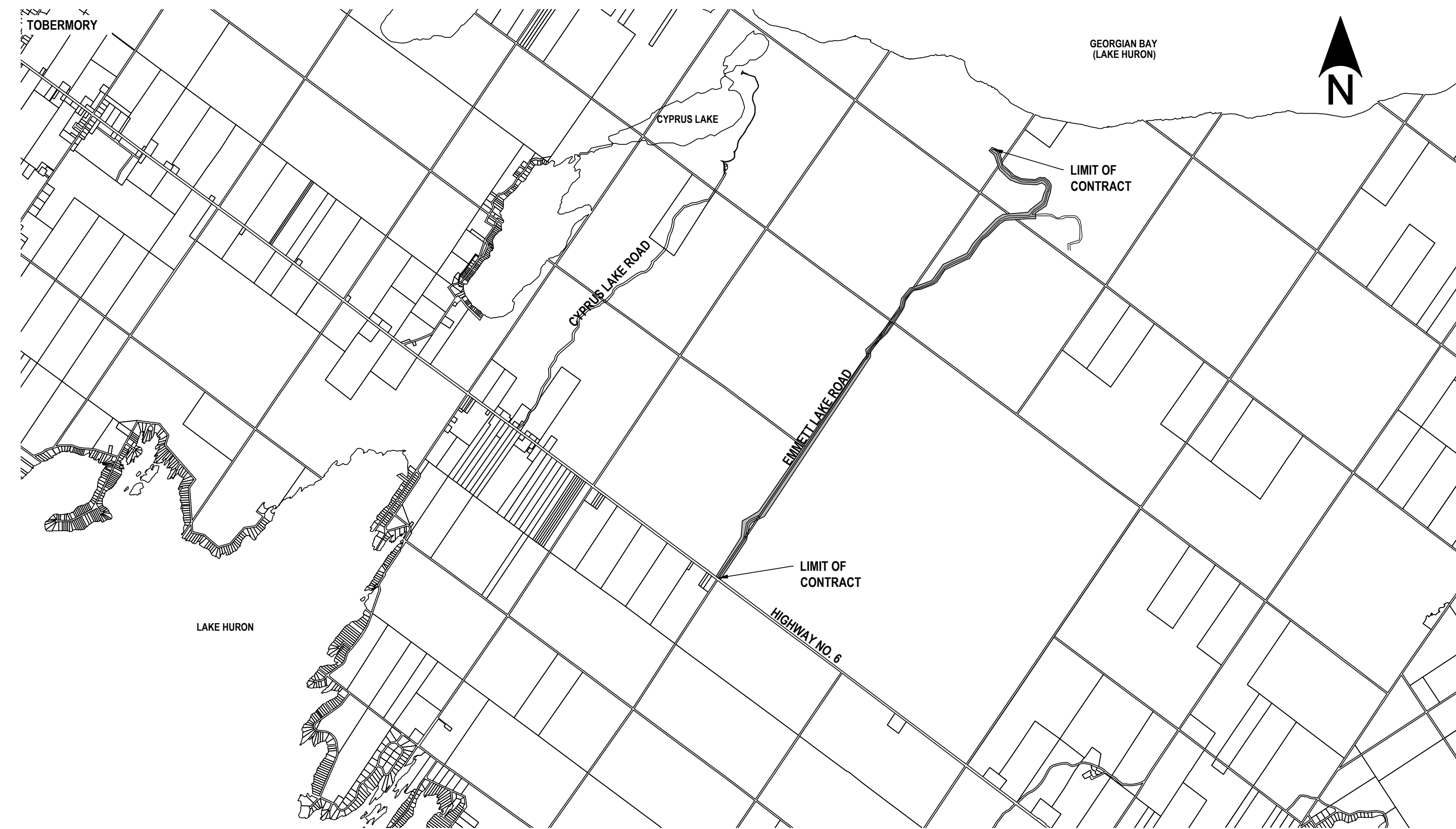


EMMETT LAKE ROAD RESURFACING

Parks Canada

BRUCE PENINSULA NATIONAL PARK

SEPTEMBER 2015



DRAWING INDEX	
SHEET NO.	DRAWING NAME
1	TITLE SHEET
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3	PLAN & SECTIONS - 1
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7	PLAN - 5
8	DETAILS & SECTIONS - 6

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NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
0	09/22/15	FOR TENDER	L.A.S	

REVISIONS

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 Miller Lakes, Ontario, N0M 1E0
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 www.dmrconsulting.ca
 Email: dmr@dmcconsulting.ca



Canada

PARKS CANADA
 EASTERN ONTARIO FIELD UNIT
 GEORGIAN BAY AND ONTARIO EAST

Type of Record /
 Type d'enregistrement

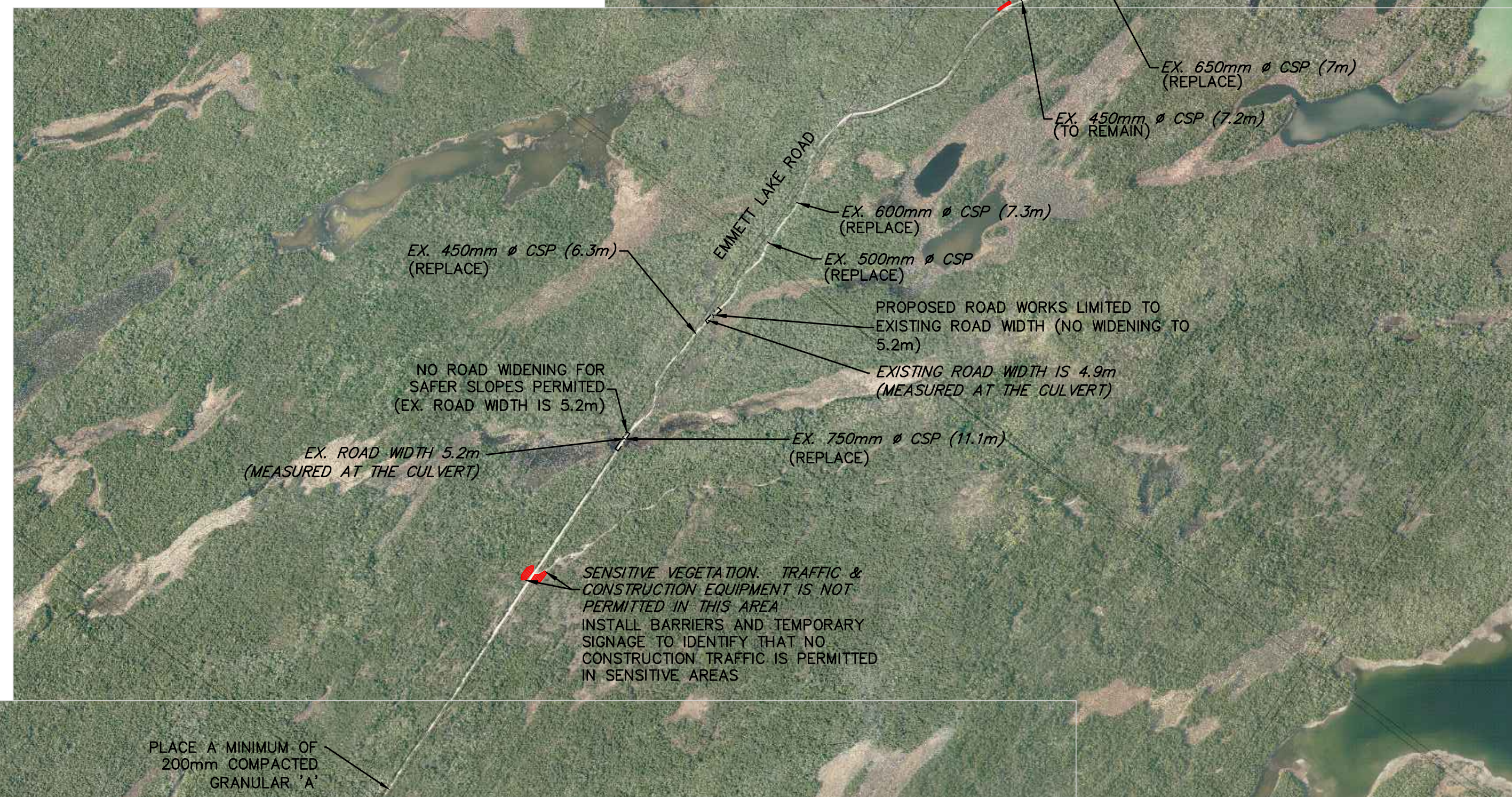
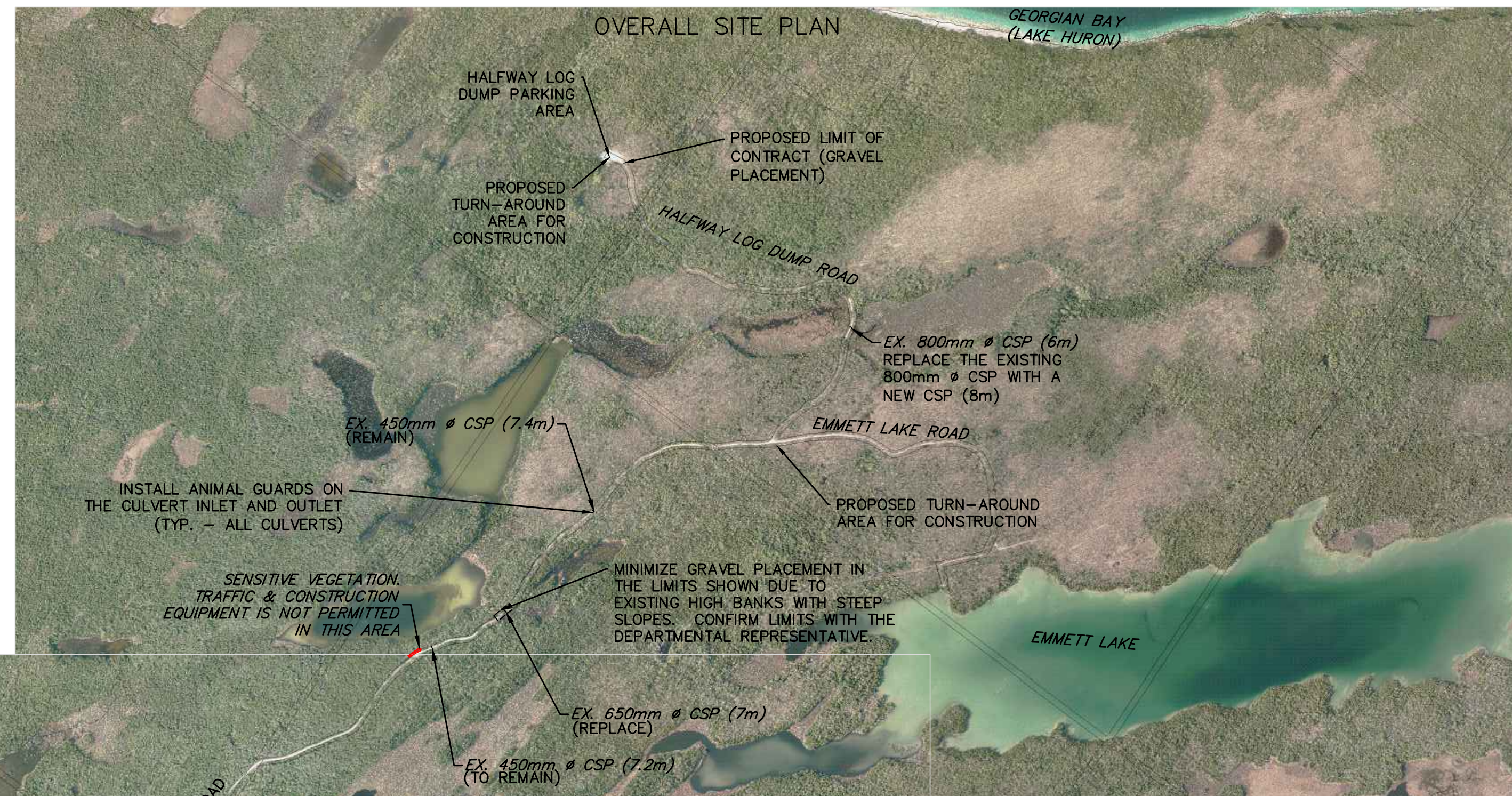
Project title / Titre du projet
**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin
TITLE SHEET

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

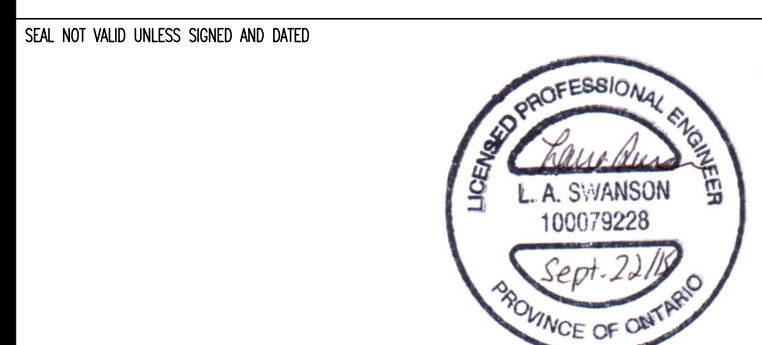
Drawn by / Dessine par L A S	Date SEPT. 2015
Field Recording by / Releve-Temoin par L A S	Date SEPT. 2015
Approved by / Approuve par ??	Date ??
Checked by / Verifie par D M R	Date SEPT. 2015
Project No. / No. du projet M14044	Asset No. ??
Drawing Re No./No. du Dessin 0	Sheet No./ Feuille No. 1

- NOTES:
- CLEARING & GRUBBING AND REMOVAL OF HAZARDS TO BE COMPLETED BY OTHERS BY A SEPARATE CONTRACT.
 - GRADE EXISTING ROADWAY TO REMOVE EXISTING POT HOLES AND RUTS, PRIOR TO THE APPLICATION OF NEW GRANULARS.
 - PLACE A MINIMUM OF 200mm OF COMPACTED GRANULAR 'A' MATERIAL ON ROADWAY, OR AS INDICATED.
 - ROAD WIDTH SHALL BE 5.2m (2.6m WIDE LANES) OR AS INDICATED.
 - PLACE COMPACTED GRANULAR 'A' MATERIAL FOR SIDE SLOPES TO REDUCE EXISTING STEEP SLOPES, AS INDICATED.
 - NEW MATERIAL MAY ONLY BE PLACED 1.2m FROM THE EDGE OF GRAVEL OF THE NEW ROADWAY, OR AS INDICATED. THE PREFERRED MAXIMUM SIDE SLOPE IS 3:1.
 - PROTECT EXISTING SIGNS LOCATED ADJACENT TO WORK AREAS.
 - INSTALL NEW SIGNS AS SHOWN ON SHEETS 3 TO 8.
 - REPLACE CULVERTS AS INDICATED. NEW CULVERTS TO BE INSTALLED TO MATCH EXISTING ELEVATIONS / INVERTS. LOCAL TEMPORARY BENCHMARKS TO BE PROVIDED BY THE DEPARTMENTAL REPRESENTATIVE. ARRANGE TO OBTAIN LOCAL TEMPORARY BENCHMARKS BEFORE PROCEEDING WITH THE REPLACEMENT OF CULVERTS.
 - INSTALL ANIMAL GUARDS ON ALL CULVERTS. SEE THE SPECIFICATIONS FOR DETAILS.
 - REMOVE DEBRIS FROM INLETS AND OUTLETS TO ENSURE FLOW TO AND FROM THE CULVERTS.
 - LOCATIONS AND STATIONS SHOWN ON DRAWINGS ARE APPROXIMATE.
 - CONFIRM LOCATIONS AND LIMITATIONS WITH THE DEPARTMENTAL REPRESENTATIVE.
 - INSTALL, MAINTAIN AND REMOVE FENCING / BARRIERS TO RESTRICT ACCESS TO ENVIRONMENTALLY SENSITIVE AREAS.
 - CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL TRAFFIC CONTROL MEASURES INCLUDING SIGNAGE, BARRIERS, FLAGMEN ETC.



LEGEND

	ROAD CENTRELINE
	SILT FENCE
	TURBIDITY CURTAIN
	NO TRAFFIC AREA
	NO WIDENING PERMITTED
	TRAFFIC SIGNAGE
	DIAMOND DELINEATOR



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Project title / Titre du projet
**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin
OVERALL SITE PLAN

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par L A S	Date SEPT. 2015
Field Recording by / Releve-Temoin par L A S	Date SEPT. 2015
Approved by / Approuve par ??	Date ??
Checked by / Verifie par D M R	Date SEPT. 2015
Project No. / No. du projet M14044	Asset No. ??
Drawing Re No. / No. du Dessin 0	Sheet No. / Feuille No. 2

GENERAL NOTES

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH PARKS CANADA AND FEDERAL STANDARDS. WHERE CONFLICT OCCURS, PARKS CANADA STANDARDS GOVERN.
- DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517, NOV. 2010 AND 518, NOV. 2011 TO MAINTAIN ALL WORKS IN A DRY CONDITION.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER OR AS NOTED.
- CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT. REFER TO SPECIFICATIONS FOR ACCURACY REQUIREMENTS AND ACCEPTABLE TOLERANCES.
- REFER TO THE SPECIFICATIONS FOR MORE DETAILS, TESTING AND SUBMISSION REQUIREMENTS.

ROADWAYS:

- GRANULAR 'A' MATERIALS TO BE PLACED IN 200mm LIFTS AND COMPACTED TO 100% SPMD AS PER OPSS 501, NOV. 2014.
- EFFORTS SHALL BE MADE TO COMPACT THE SIDE SLOPES. ROUND AND COMPACT SHOULDER / SIDE SLOPE GRANULARS TO ENSURE ADEQUATE COMPACTION AND STABILIZATION TO PREVENT EROSION AND WASHOUTS.
- CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE TO ARRANGE FOR TESTING AS REQUIRED.

SEDIMENTATION AND EROSION CONTROL:

- SITE WORKS CONTRACTOR RESPONSIBLE TO INSTALL SILT FENCE AND TEMPORARY EROSION CONTROL MEASURES, AS REQUIRED PRIOR TO THE COMMENCEMENT OF THIS PROJECT. SILT FENCE AND TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL WORK HAS BEEN COMPLETED AND DISTURBED AREAS ARE STABILIZED. LIMITS AND THE REQUIREMENT FOR EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE DEPENDING ON THE FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.
- SILT FENCE TO CONFORM TO OPSD 219.110, NOV. 2006.
- ALL TRACKED MUD SHALL BE IMMEDIATELY REMOVED FROM ALL ROADWAYS. ALL TRACKED MUD AND GRANULARS SHALL BE IMMEDIATELY REMOVED FROM PAVED SURFACES.
- SUPPLY, INSTALL & MAINTAIN TURBIDITY CURTAIN (SILT CURTAIN) IN AREAS WHERE PROPOSED WORK IS WITHIN THE WETLAND AREAS. TURBIDITY CURTAIN INSTALLATION SHALL BE TO OPSD 219.260, NOV. 2006.

STORM WORKS

- 200 - 450mm Ø STORM CULVERTS SHALL BE ALUMINIZED TYPE 2 HEL-COR CORRUGATED STEEL PIPE (CSP), 2.0mm THICKNESS PER OPSS 1841 NOV. 2014, AND CSA G401-01.
- 600-800mm Ø STORM CULVERTS SHALL BE ALUMINIZED TYPE 2 HEL-COR CORRUGATED STEEL PIPE (CSP), 2.0mm THICKNESS PER OPSS 1841 NOV. 2014, AND CSA G401-01.
- PROVIDE FROST TREATMENT FOR CULVERTS AS PER OPSD 803.030 AND 803.031, NOV. 2010.
- EMBEDMENT FOR CULVERTS SHALL BE TO OPSD 802.010. BEDDING AND COVER FOR CULVERTS SHALL BE GRANULAR 'A'. BACKFILL TO BE APPROVED NATIVE BACKFILL. BEDDING AND COVER SHALL BE COMPACTED IN A MAXIMUM OF 300mm LIFTS TO 95% SPMD.

PLAN



LEGEND

- ROAD CENTRELINE
- SILT FENCE
- TURBIDITY CURTAIN
- ▨ NO TRAFFIC AREA
- ▤ NO WIDENING PERMITTED
- +— TRAFFIC SIGNAGE
- ◆ DIAMOND DELINEATOR

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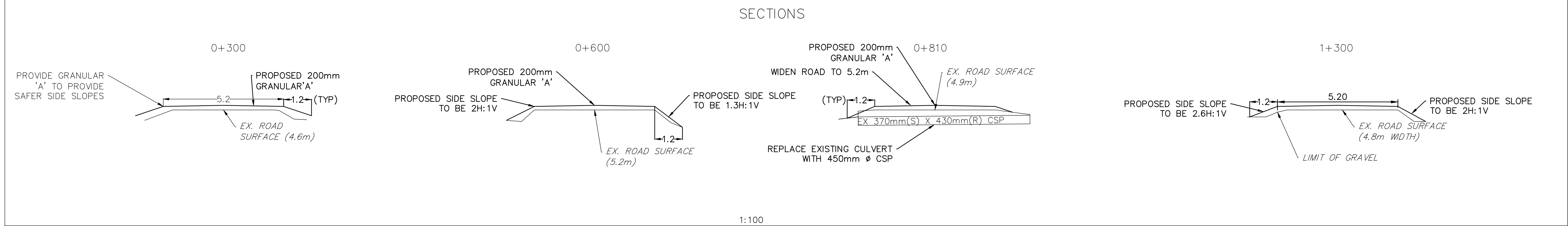
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SECTIONS

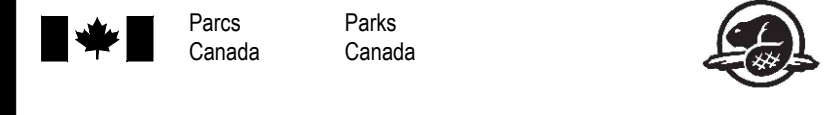


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NEW TRAFFIC SIGNS	MTQ CODE	QUANTITY
'NARROW ROAD - RUE ÉTROITE' SIGN	CUSTOM	2
SHOULDER DROP OFF	CUSTOM	6
'NARROW ROAD WITH STEEP BANKS'	CUSTOM	2
DIAMOND SHAPED REFLECTIVE DELINEATORS	-	43

- SIGNAGE NOTES:
- SIGNAGE INSTALLATION SHALL CONFORM TO PARKS CANADA EXTERIOR SIGNAGE STANDARDS AND GUIDELINES AND/OR MTO STANDARDS.
 - REFER TO THE SPECIFICATIONS FOR SIGNAGE DETAILS (SIZE, COLOUR, INSTALLATION)
 - REFER TO SHEETS 3-8 FOR SIGN LOCATIONS. CONTRACTOR SHALL CONFIRM THE SIGN LOCATION AND ORIENTATION WITH THE DEPARTMENTAL REPRESENTATIVE BEFORE THE INSTALLATION IS COMPLETE.
 - ALL NEW SIGNAGE SHALL BE BILINGUAL.
 - POST MOUNTED DELINEATORS INSTALLATION SHALL BE TO OPSD 984.101, NOV. 2014.
 - CONTRACTOR RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION SIGNAGE.

- NOTES:
- LOCATIONS OF CULVERTS, STATIONS, AND PROPOSED WORKS ARE APPROXIMATE. VERIFY THE LOCATIONS WITH THE DEPARTMENTAL REPRESENTATIVE.
 - A TOPOGRAPHIC SURVEY WAS NOT COMPLETED FOR THIS PROJECT. QUANTITIES ARE APPROXIMATE. CROSS SECTIONS WERE GENERATED BY OBTAINING FIELD MEASUREMENTS MANUALLY IN THE FIELD. TOPOGRAPHY ALONG THE ROADWAY VARIES DRAMATICALLY. THE CONTRACTOR SHALL TAKE ALL REASONABLE EFFORTS TO VERIFY QUANTITIES FOR BIDDING PURPOSES.
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Canada

PARKS CANADA
 EASTERN ONTARIO FIELD UNIT
 GEORGIAN BAY AND ONTARIO EAST

Type of Record /
 Type d'enregistrement

Project title / Titre du projet
**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin
**PLAN & SECTIONS - 1
 STA. 0+000 TO 1+400**

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessiné par
 L A S Date
 SEPT. 2015

Field Recording by /
 Relevé-Témoin par
 L A S Date
 SEPT. 2015

Approved by / Approuvé par
 ?? Date
 ??

Checked by / Verifié par
 D M R Date
 SEPT. 2015

Project No./ No. du projet
 M14044 Asset No.
 ?? Sheet No./
 Feuille No.

Drawing Re No./No. du Dessin
 0



LEGEND

- ROAD CENTRELINE
- SILT FENCE
- TURBIDITY CURTAIN
- ▨ NO TRAFFIC AREA
- ▭ NO WIDENING PERMITTED
- +— TRAFFIC SIGNAGE
- ◆ DIAMOND DELINEATOR

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Project title / Titre du projet
**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin
**PLAN & SECTIONS - 2
 STA. 1+400 TO 2+780**

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
 L A S

Date
 SEPT. 2015

Field Recording by /
Releve-Temoin par
 L A S

Date
 SEPT. 2015

Approved by / Approuve par
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Date
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Checked by / Verifie par
 D M R

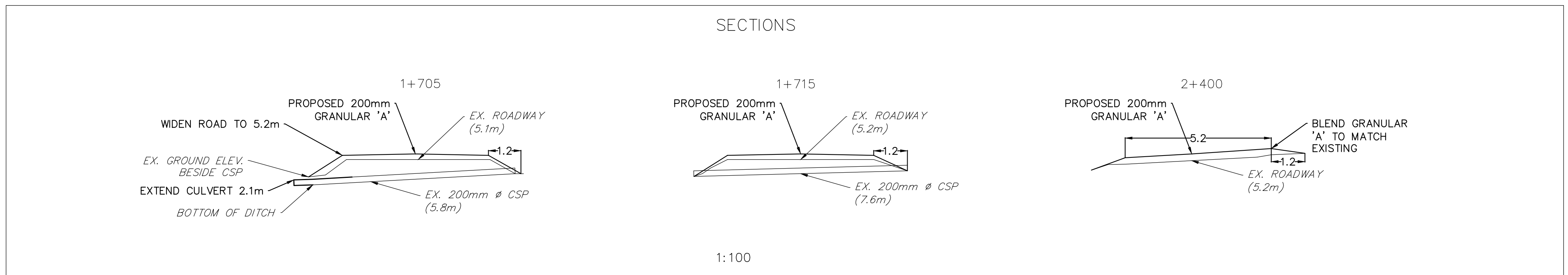
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Project No./ No. du projet
 M14044

Asset No.
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Sheet No./
Feuille No.
 4

Drawing Re No./No. du Dessin
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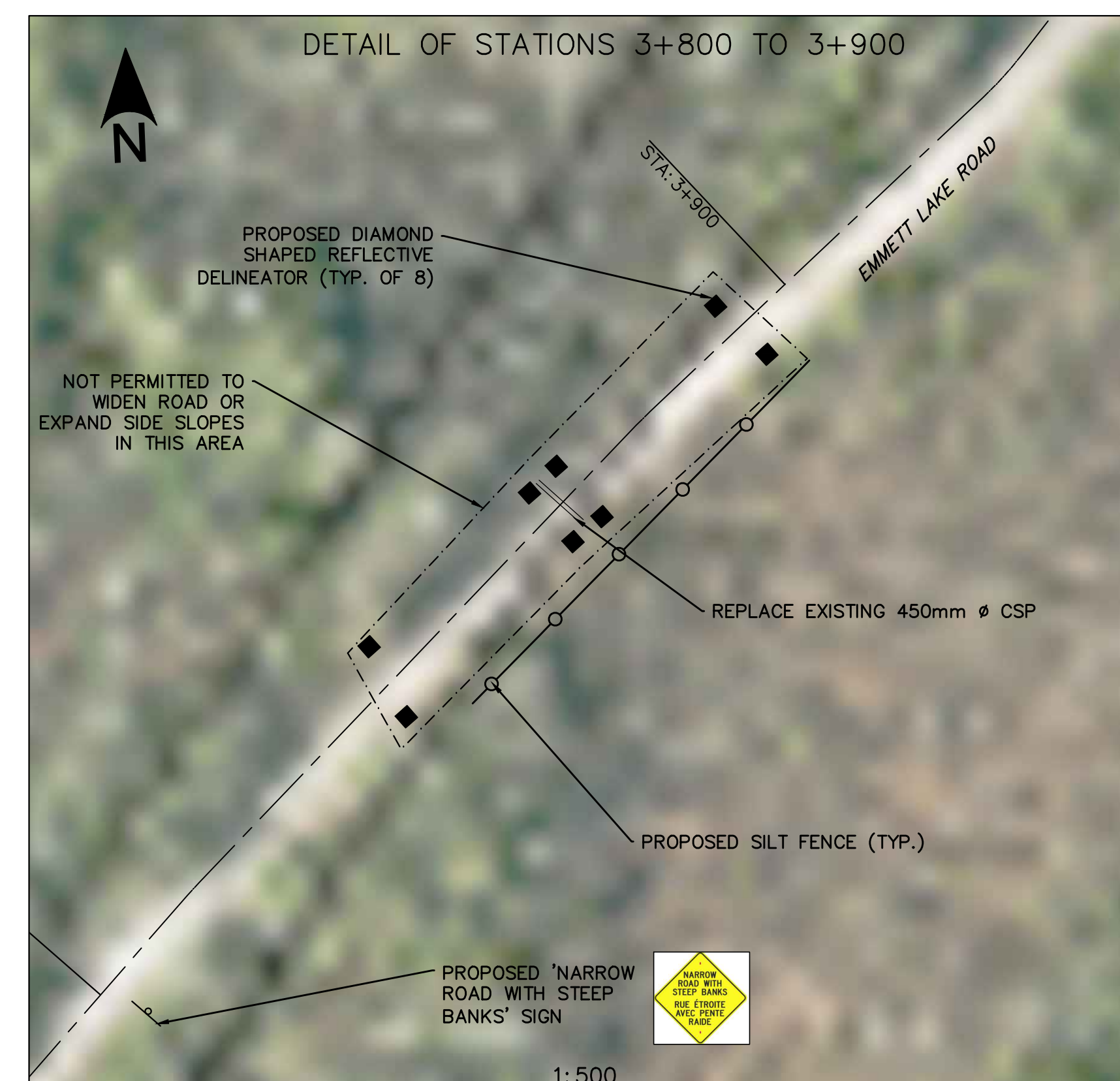
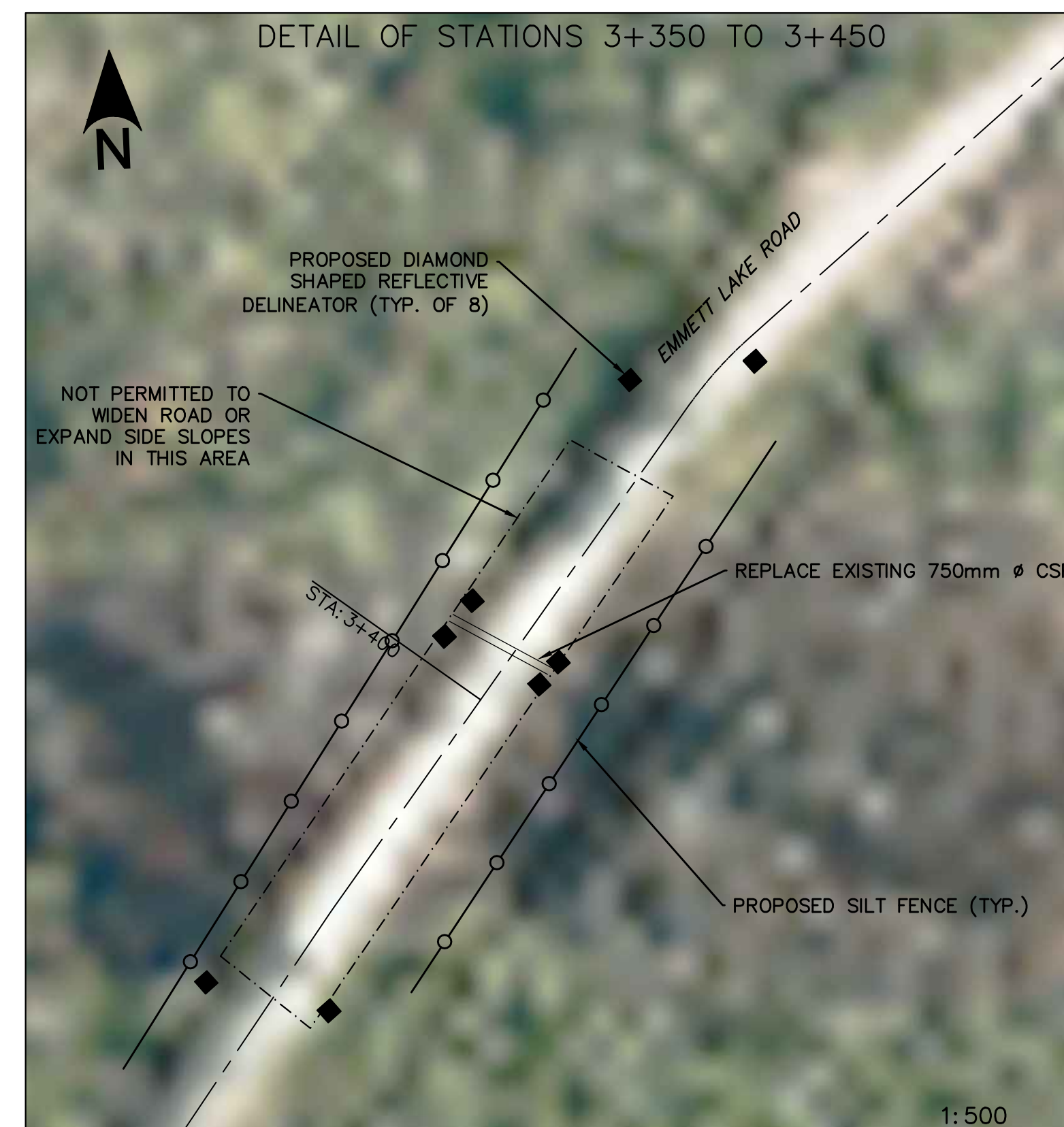
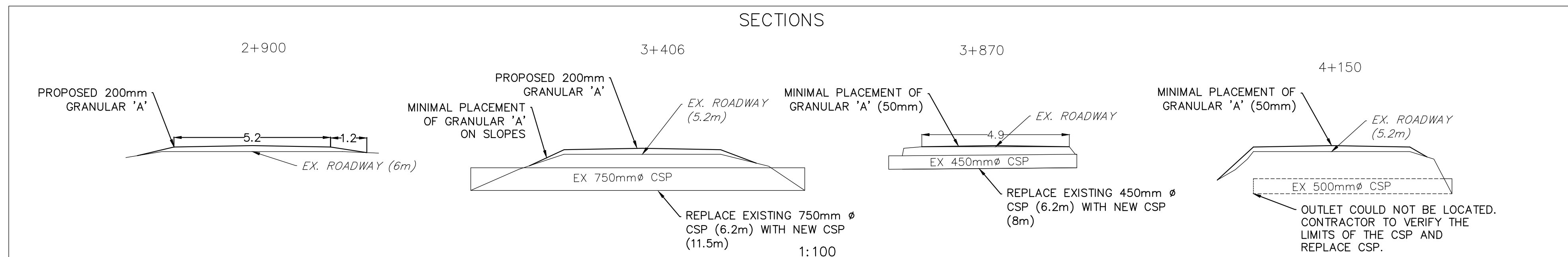
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- SILT FENCE
- TURBIDITY CURTAIN
- NO TRAFFIC AREA
- NO WIDENING PERMITTED
- TRAFFIC SIGNAGE
- DIAMOND DELINEATOR

SEA, NOT VALID UNLESS SIGNED AND DATED

PROFESSIONAL ENGINEER
L.A. SWANSON
100079228
Sept. 2015
PROVINCE OF ONTARIO

0	09/22/15	FOR TENDER	L.A.S.
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Parcs Canada Parks Canada

Canada

PARCS CANADA
EASTERN ONTARIO FIELD UNIT
GEORGIAN BAY AND ONTARIO EAST

Type of Record /
Type d'enregistrement

Project title / Titre du projet
**EMMETT LAKE ROAD
RESURFACING**

Drawing title / Titre du dessin
**PLAN & SECTIONS - 3
STA. 2+780 TO 4+180**

Plot Scale / Echelle
1:1 (Arch D 24x36 Plot Size)

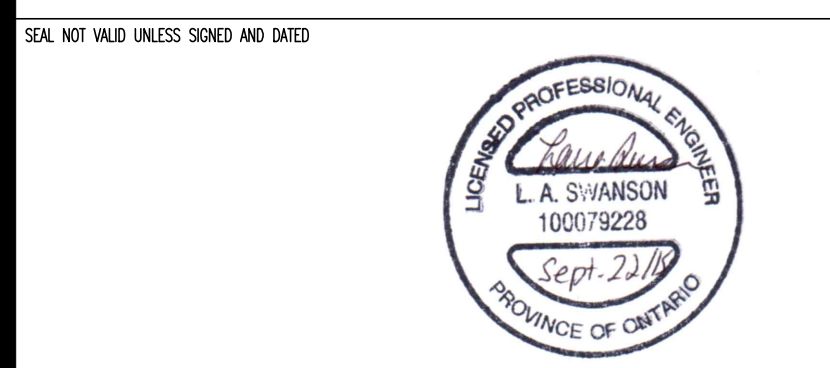
Drawn by / Dessiné par L A S	Date SEPT. 2015
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Approved by / Approuvé par ??	Date ??
Checked by / Verifié par D M R	Date SEPT. 2015

Project No. / No. du projet M14044	Asset No. ??	Sheet No. / Feuille No. 5
Drawing Re No. / No. du Dessin 0		



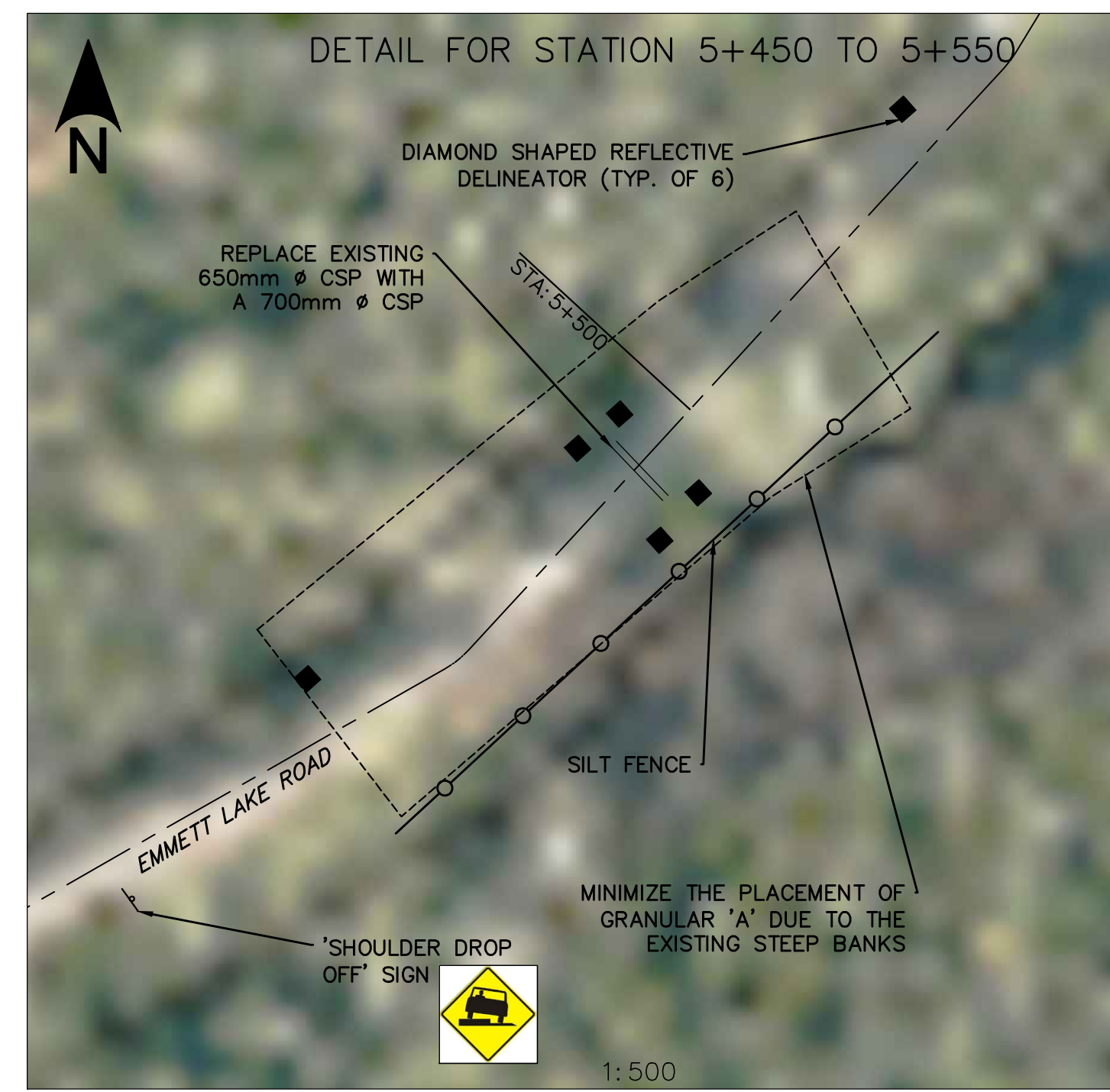
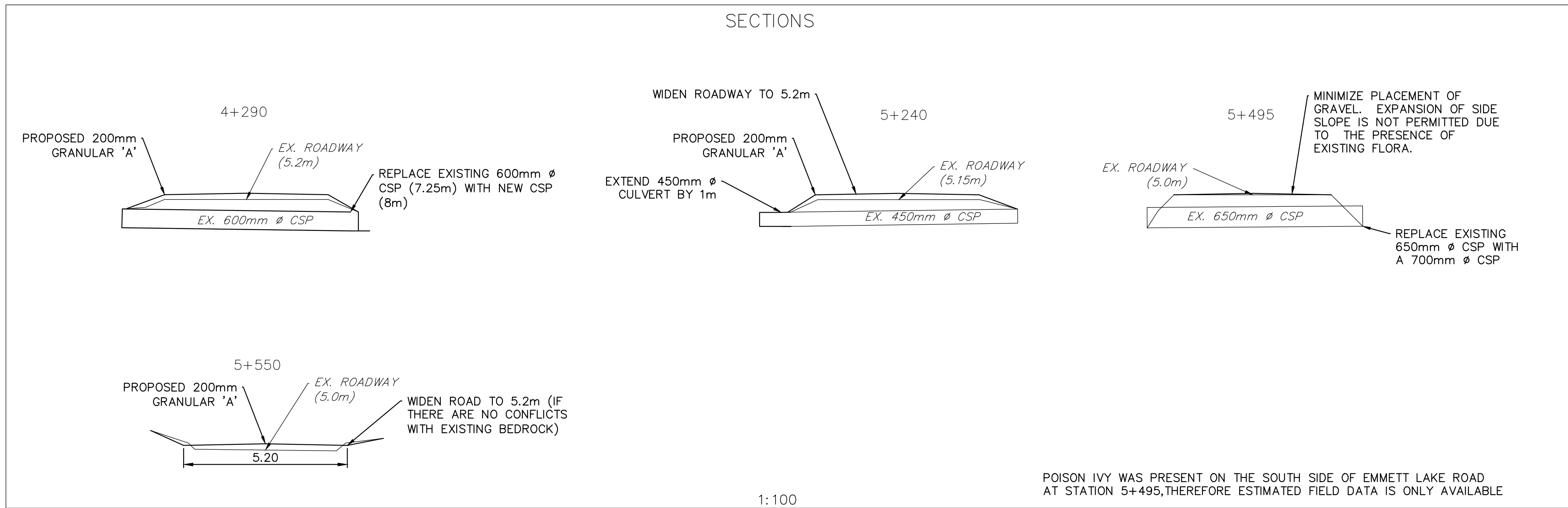
LEGEND

- ROAD CENTRELINE
- SILT FENCE
- TURBIDITY CURTAIN
- NO TRAFFIC AREA
- NO WIDENING PERMITTED
- TRAFFIC SIGNAGE
- DIAMOND DELINEATOR



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Project title / Titre du projet

**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin

**PLAN & SECTION - 4
 STA. 4+180 TO 5+680**

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
 L A S Date
 SEPT. 2015

Field Recording by /
 Releve-Temoin par
 L A S Date
 SEPT. 2015

Approved by / Approuve par
 ?? Date
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Checked by / Verifie par
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Project No./ No. du projet
 M14044 Asset No.
 ?? Sheet No./
 Feuille No.
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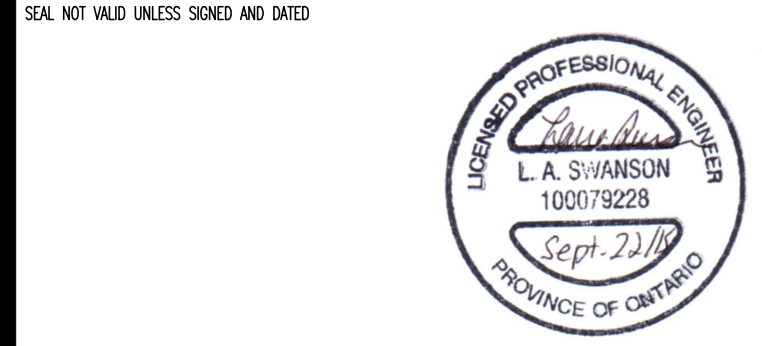
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LEGEND

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	SILT FENCE
	TURBIDITY CURTAIN
	NO TRAFFIC AREA
	NO WIDENING PERMITTED
	TRAFFIC SIGNAGE
	DIAMOND DELINEATOR



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 RESURFACING**

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**PLAN - 5
 STA 5+680 TO 7+917**

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
 L A S Date
 SEPT. 2015

Field Recording by /
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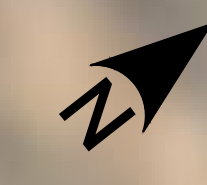
Approved by / Approuve par
 ?? Date
 ??

Checked by / Verifie par
 D M R Date
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Project No. / No. du projet
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 ?? Sheet No. /
 Feuille No.
 7

Drawing Re No. / No. du Dessin
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STATION 6+850 TO 7+050 DETAIL

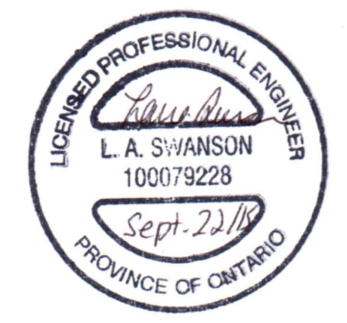


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LEGEND

	ROAD CENTRELINE
	SILT FENCE
	TURBIDITY CURTAIN
	NO TRAFFIC AREA
	NO WIDENING PERMITTED
	TRAFFIC SIGNAGE
	DIAMOND DELINEATOR

SCALE NOT VALID UNLESS SIGNED AND DATED



0	09/22/15	FOR TENDER	L.A.S	
NO.	DATE	DESCRIPTION	Drawn by / Dessine par	Approved / Approuve
REVISIONS				

DARRYL M. ROBINS CONSULTING INC.
 4844 Highway No. 6, General Delivery
 Miller Lake, Ontario N0H 1E0
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Canada

PARKS CANADA
 EASTERN ONTARIO FIELD UNIT
 GEORGIAN BAY AND ONTARIO EAST

Type of Record /
 Type d'enregistrement

Project title / Titre du projet
**EMMETT LAKE ROAD
 RESURFACING**

Drawing title / Titre du dessin
**SECTION & DETAILS
 STA. 5+680 TO 7+917**

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
 L A S
 Date
 SEPT. 2015

Field Recording by /
 Releve-Temoin par
 L A S
 Date
 SEPT. 2015

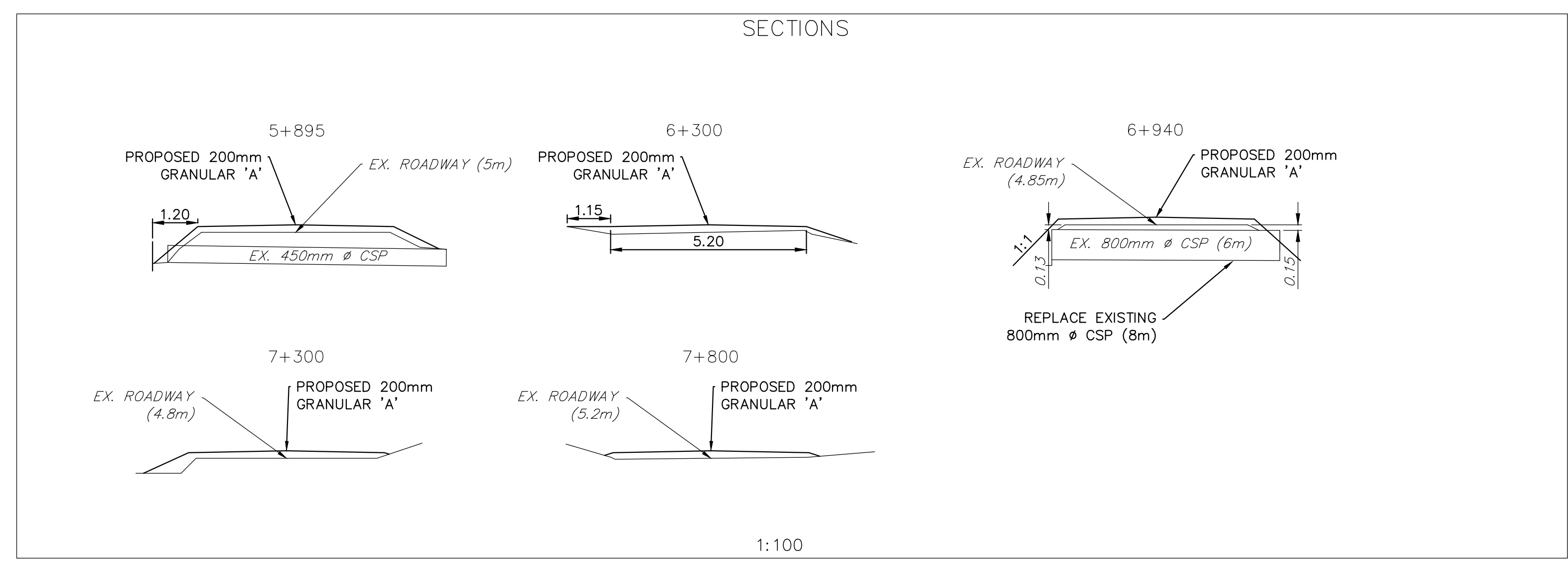
Approved by / Approuve par
 ??
 Date
 ??

Checked by / Verifie par
 D M R
 Date
 SEPT. 2015

Project No./ No. du projet
 M14044
 Asset No.
 ??
 Sheet No./
 Feuille No.
 8

Drawing Re No./No. du Dessin
 0

SECTIONS



1:100

- NOTES:
- LOCATIONS OF CULVERTS, STATIONS AND PROPOSED WORKS ARE APPROXIMATE. VERIFY THE LOCATIONS WITH THE DEPARTMENTAL REPRESENTATIVE.
 - A TOPOGRAPHIC SURVEY WAS NOT COMPLETED FOR THIS PROJECT. QUANTITIES ARE APPROXIMATE. CROSS SECTIONS WERE GENERATED BY OBTAINING FIELD MEASUREMENTS MANUALLY IN THE FIELD. TOPOGRAPHY ALONG THE ROADWAY VARIES DRAMATICALLY. THE CONTRACTOR SHALL TAKE ALL REASONABLE EFFORTS TO VERIFY QUANTITIES FOR BIDDING PURPOSES.
 - TICKETS WILL BE COLLECTED TO ESTABLISH GRANULAR MATERIALS USED. FIELD MEASUREMENTS WILL ALSO BE CONSIDERED WHEN ESTABLISHING QUANTITIES FOR PAYMENT.
 - NEW CULVERTS MUST BE INSTALLED TO MATCH EXISTING INVERT ELEVATIONS. THE DEPARTMENTAL REPRESENTATIVE WILL PROVIDE TEMPORARY LOCAL BENCHMARKS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHOULD ENSURE THEY HAVE THE TEMPORARY LOCAL BENCHMARKS BEFORE PROCEEDING WITH REMOVING EXISTING CULVERTS.