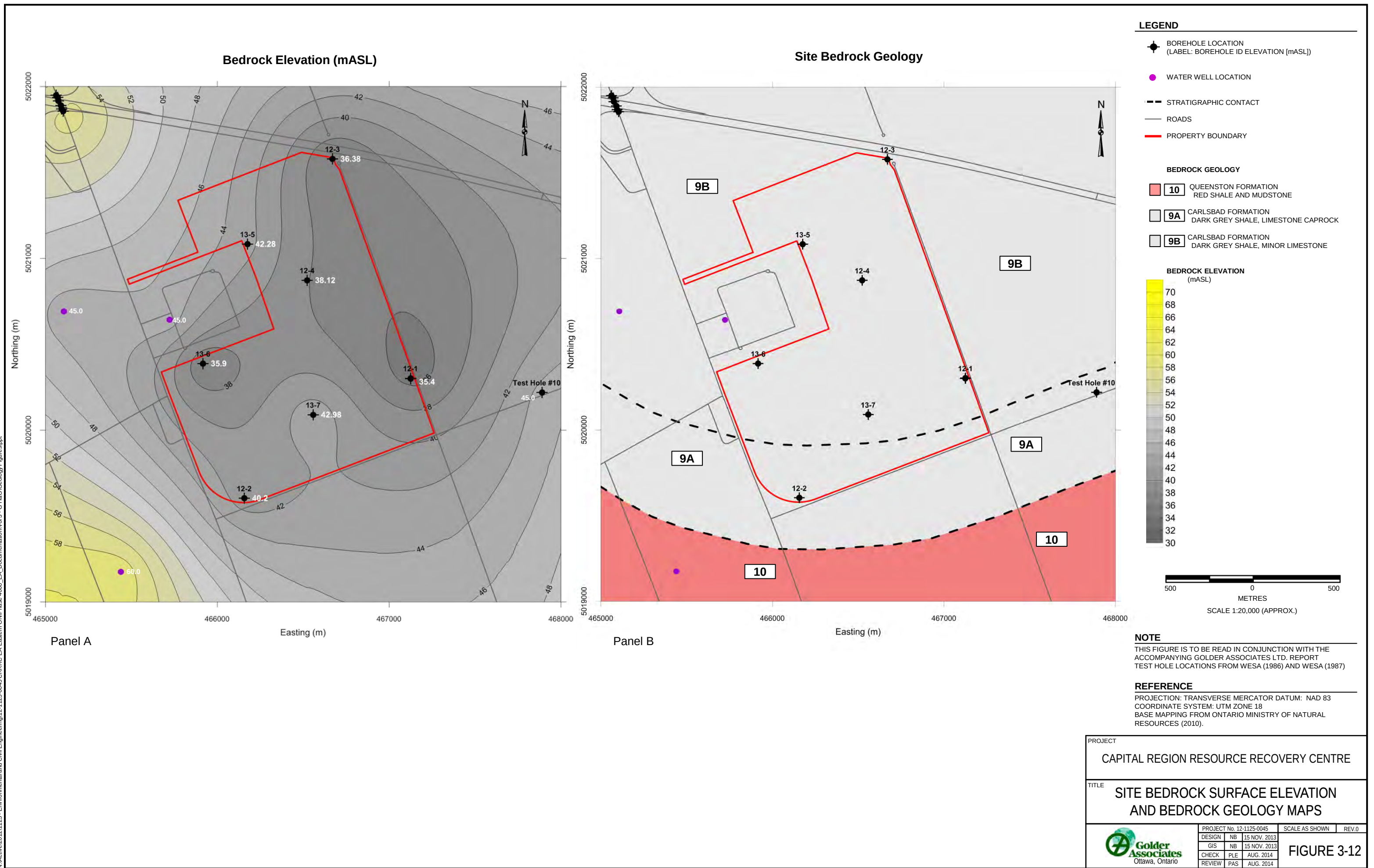
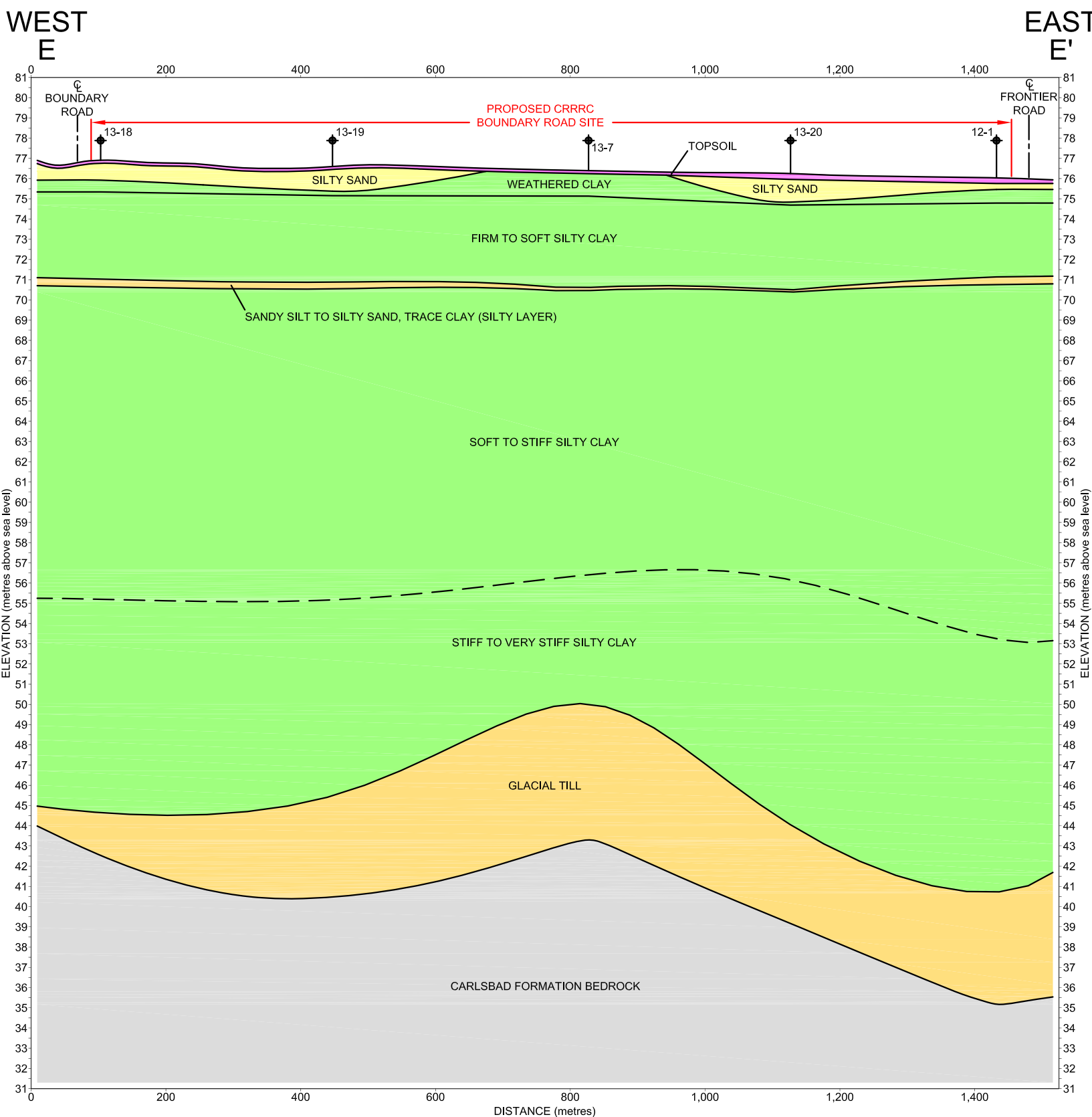


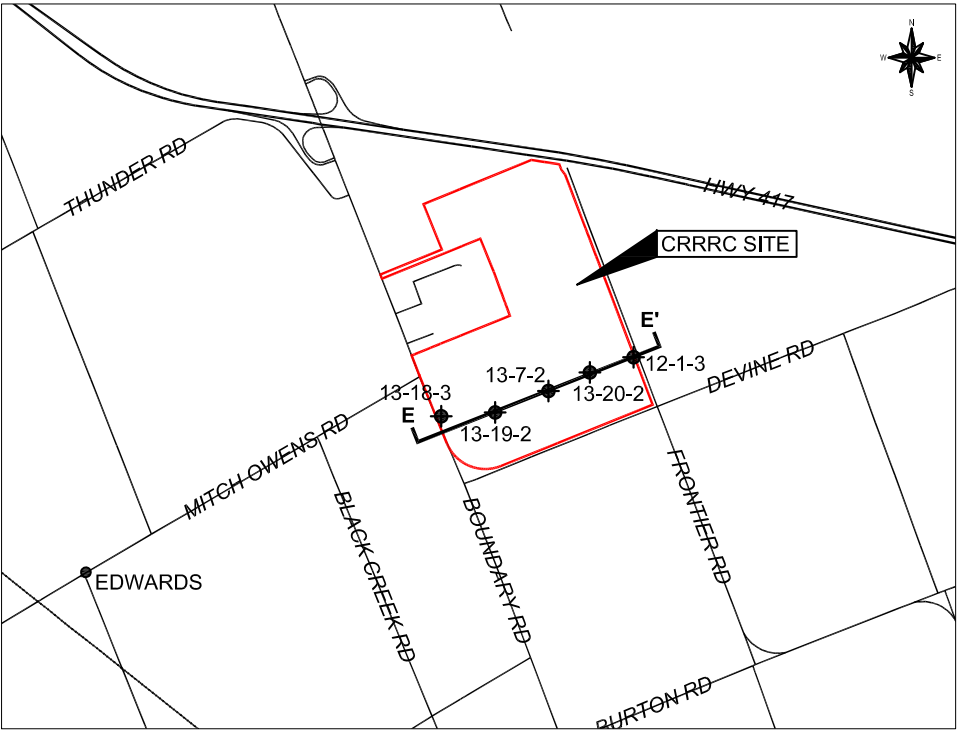




HORIZONTAL
120 0 120 240
SCALE 1:7500 METRES

VERTICAL
40 0 40 80
SCALE 1:2500 METRES

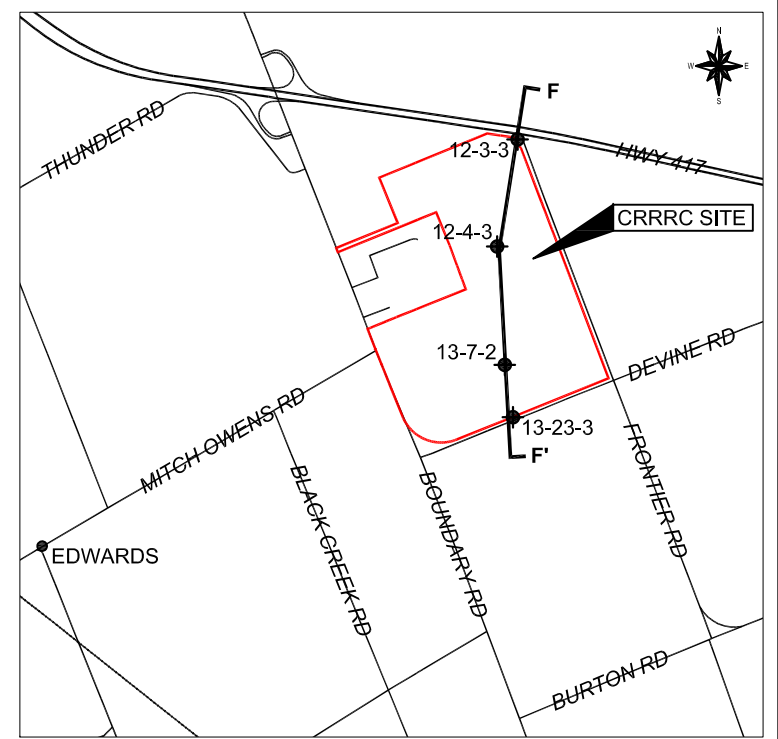
NOTE:
VERTICAL SCALE EXAGGERATED 100 TIMES THE HORIZONTAL SCALE FOR PRESENTATION PURPOSES



KEY MAP
1:50,000

- LEGEND**
- ◆ BOREHOLE LOCATION
- NOTES**
- THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT

											
REV	DATE	DES	REVISION DESCRIPTION				CAD	CHK	RVW		
PROJECT											
CAPITAL REGION RESOURCE RECOVERY CENTRE											
TITLE											
SITE CROSS-SECTION E-E'											
 Golder Associates Ottawa, Ontario, Canada			PROJECT No.		12-1125-0045		FILE No. 1211250045-4000-3-14.dwg				
			DESIGN	SAT	Oct. 2013		SCALE		AS SHOWN	REV.	
			CAD	JM	Nov. 2013		FIGURE 3-14				
			CHECK	PLE	Aug. 2014						
			REVIEW	PAS	Aug. 2014						



KEY MAP
1:50,000

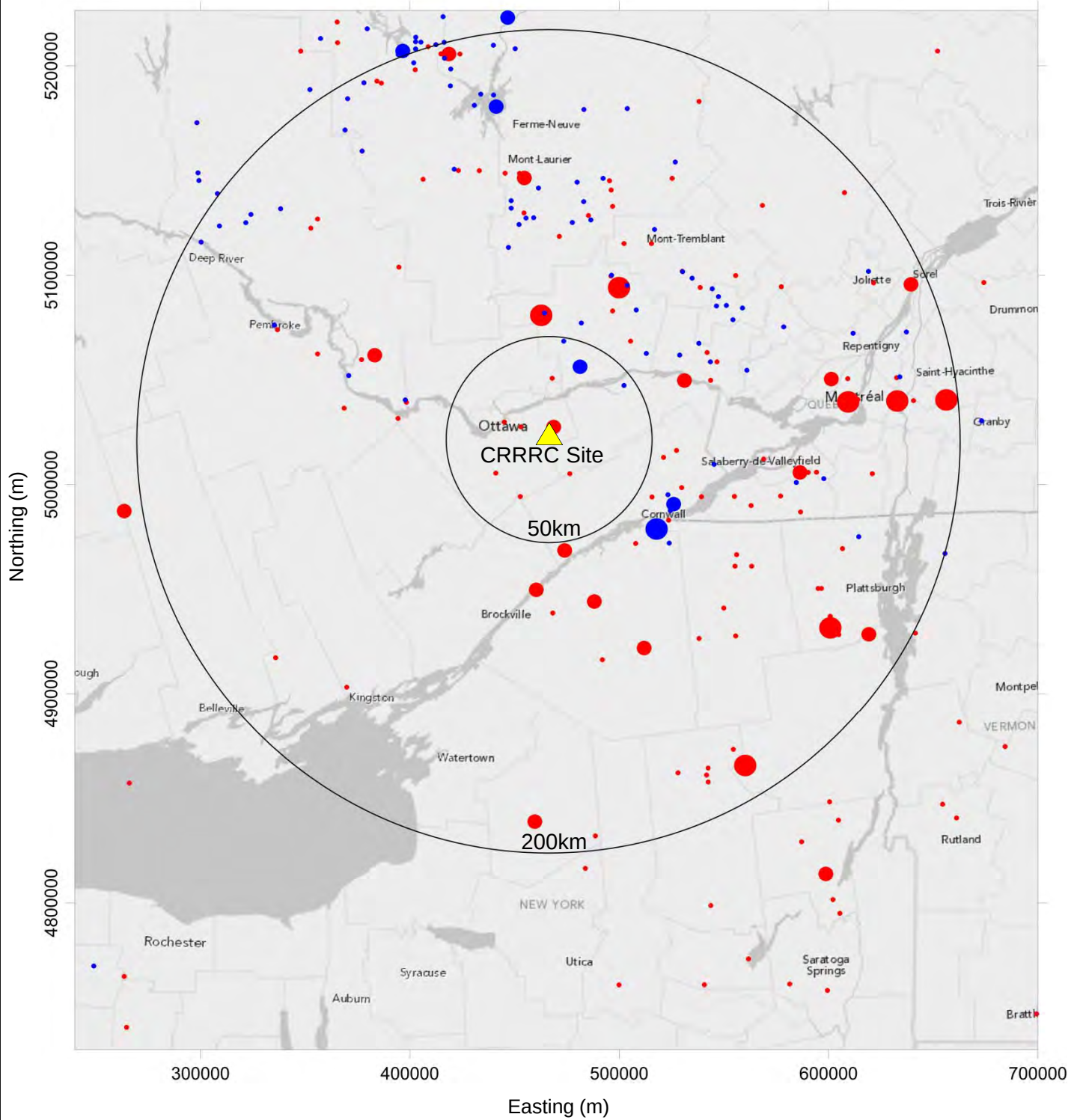
LEGEND

- BOREHOLE LOCATION

NOTES

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH
THE ACCOMPANYING GOLDER ASSOCIATES LTD.
REPORT

										
REV	DATE	DES	REVISION DESCRIPTION				CAD	CHK	RWV	
PROJECT										
CAPITAL REGION RESOURCE RECOVERY CENTRE										
TITLE										
SITE CROSS-SECTION F-F'										
			PROJECT No.		12-1125-0045		FILE No. 1211250045-4000-3-15.dwg			
			DESIGN	SAT	Oct. 2013		SCALE	AS SHOWN	REV.	
			CAD	JM	Nov. 2013					
			CHECK	PLE	Aug. 2014					
			REVIEW	PAS	Aug. 2014					



LEGEND

MAGNITUDE

- 5 < Mw < 6
- 4 < Mw < 5
- 3 < Mw < 4

DEPTH

- ≤ 15 km
- > 15 km

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18

PROJECT

CAPITAL REGION RESOURCE RECOVERY CENTRE

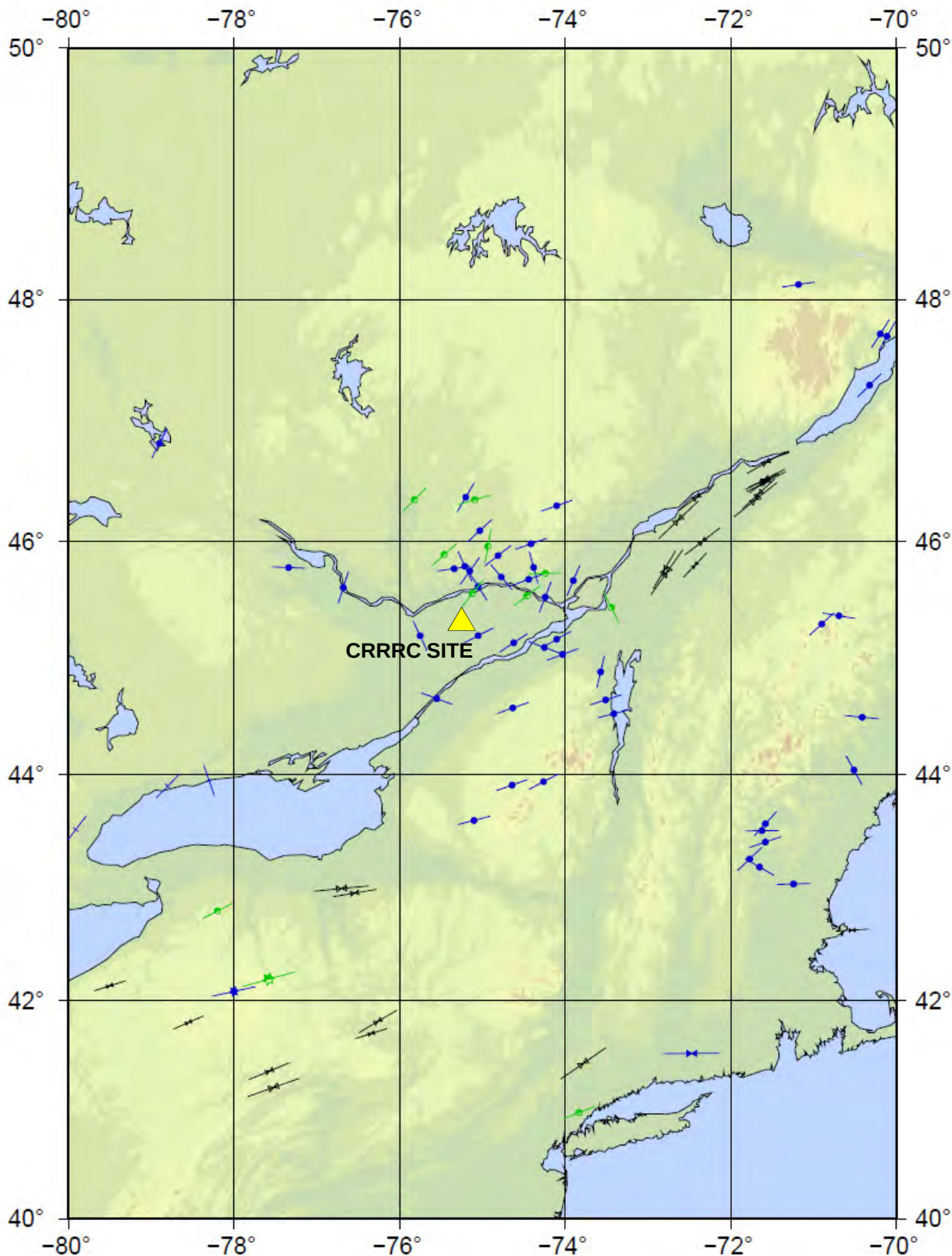
TITLE

SEISMICITY NEAR THE
 CRRRC SITE



PROJECT No. 12-1125-0045	PHASE No. 4500
DESIGN CV 27 NOV. 2013	SCALE AS SHOWN
GIS NB 27 NOV. 2013	REV.0
CHECK PLE AUG. 2014	
REVIEW PAS AUG. 2014	

FIGURE 4-1



LEGEND

- focal mechanism
 breakouts
 hydro. fractures
Regime:
 SS TF U

Quality:

- A
 B
 C

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT
 SS = STRIKE-SLIP FAULT; TF = THRUST FAULT; U = UNKNOWN REGIME

REFERENCE

SOURCE: WORLD STRESS MAP REL. 2008
 HELMHOLTZ CENTRE POTSDAM
 GFZ GERMAN RESEARCH CENTRE FOR GEOSCIENCES

PROJECT

CAPITAL REGION RESOURCE RECOVERY CENTRE

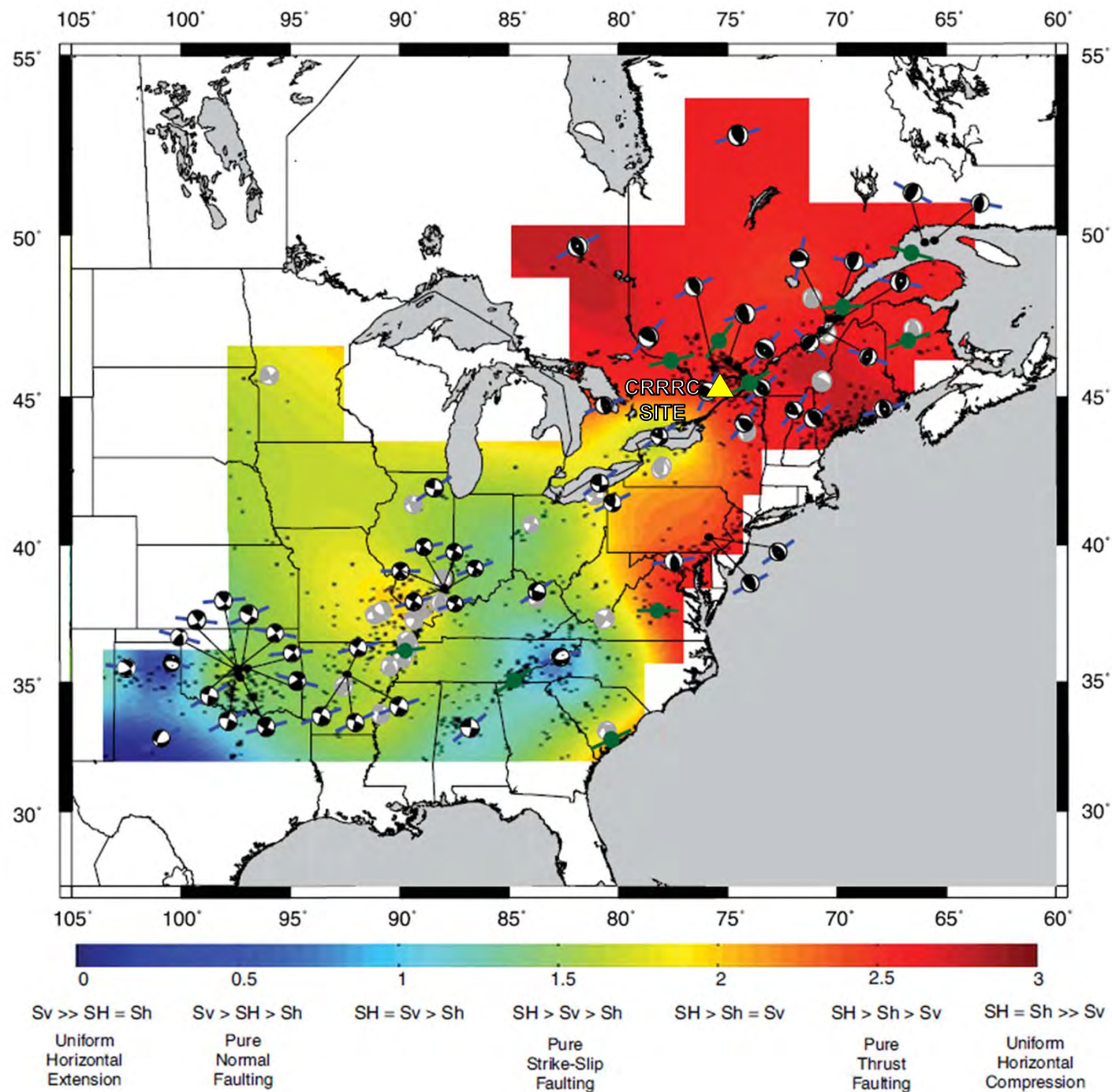
TITLE

ORIENTATION OF THE STRESS FIELD
 NEAR THE CRRRC SITE



PROJECT No. 12-1125-0045			PHASE No. 4500	
DESIGN	CV	27 NOV. 2013	SCALE AS SHOWN	REV.0
GIS	NB	27 NOV. 2013		
CHECK	PLE	AUG. 2014		
REVIEW	PAS	AUG. 2014		

FIGURE 4-2



LEGEND

- FOCAL MECHANISM SHOWING S_{HMAX} ORIENTATION (HURD AND ZOBACK STUDY)
- FOCAL MECHANISM SHOWING S_{HMAX} ORIENTATION (EARLIER STUDIES)
- STRESS INVERSIONS
- BACKGROUND SEISMICITY FROM USG/NEIC CATALOG (1973 – 2010)
- STRIKE-SLIP
- THRUST
- NORMAL

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT

REFERENCE

SOURCE: HURD, O., AND ZOBACK, M.D. (2012). INTERPLATE EARTHQUAKES, REGIONAL STRESS AND FAULT MECHANICS IN THE CENTRAL AND EASTERN U.S. AND SOUTHEASTERN CANADA. TECTONOPHYSICS, 581, 182-192.

PROJECT

CAPITAL REGION RESOURCE RECOVERY CENTRE

TITLE

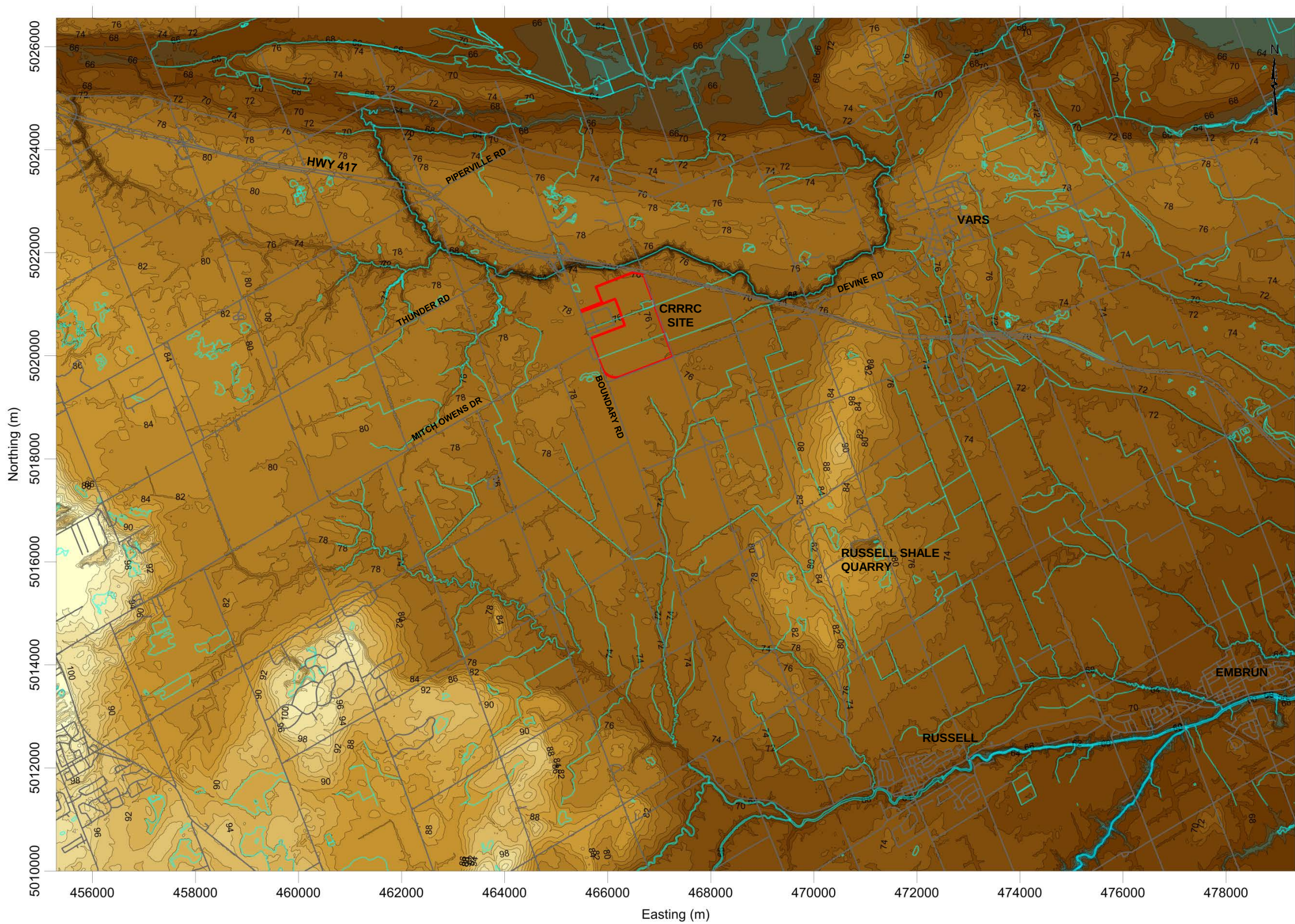
REGIONAL STRESS MAP



PROJECT No. 12-1125-0045	PHASE No. 4500
DESIGN CV 27 NOV. 2013	SCALE AS SHOWN
GIS NB 27 NOV. 2013	REV.0
CHECK PLE AUG. 2014	
REVIEW PAS AUG. 2014	

FIGURE 4-3

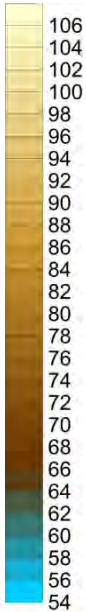
N:\Active\2012\12-11-25 - Environmental and Civil Engineering\12-11-25-0045 CRRRC EA Eastern ON\Phase 4000_EA_Documentation\Vol 3 - G H&G\Geology\Figures\ppt



LEGEND

- WATERBODIES
- ROADS
- PROPERTY BOUNDARY

TOPOGRAPHY COLOUR SCALE
(mASL)



1000 0 1000
METRES
SCALE 1:85,000 (APPROX.)

NOTE

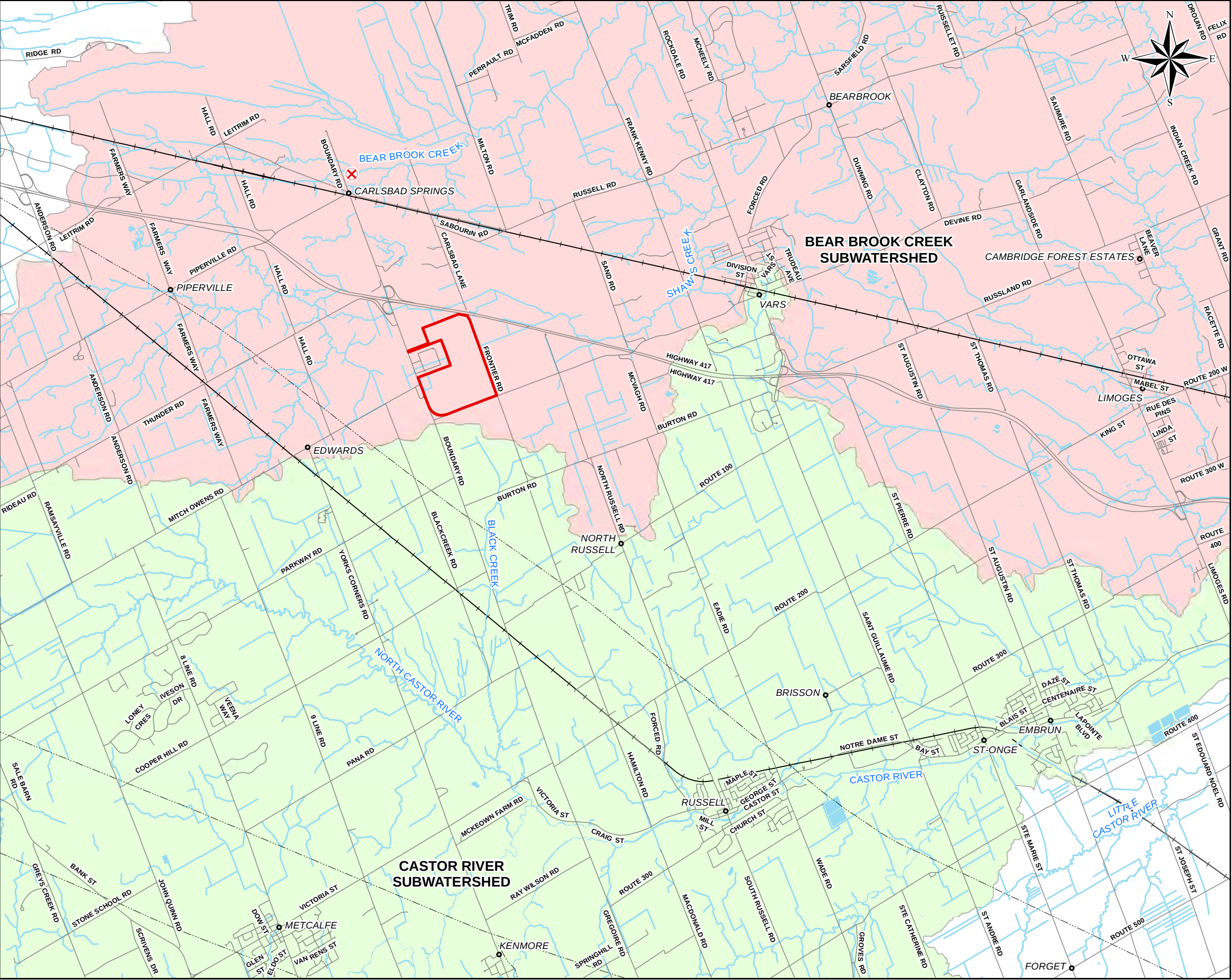
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT
ELEVATION CONTOUR INTERVAL = 2m
CONTOUR DATUM IS mASL

REFERENCE

PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE
SYSTEM: UTM ZONE 18.
BASE MAPPING FROM ONTARIO MINISTRY OF NATURAL RESOURCES (2010).

PROJECT			
CAPITAL REGION RESOURCE RECOVERY CENTRE			
TITLE			
TOPOGRAPHY			
	PROJECT No. 12-1125-0045		SCALE AS SHOWN
	DESIGN	NB 15 NOV. 2013	REV.0
	GIS	NB 15 NOV. 2013	
	CHECK	PLE AUG. 2014	
	REVIEW	PAS AUG. 2014	
FIGURE 5-1			

N:\Active\Spatial_1\Miller_Paving_Ltd\CRRC\GIS\MXDs\12-1125-0045\Reporting\Phase4000\Vol.3\1211250045-V3-4000-0120-5-2-SurfWater-Subwatersheds.mxd



LEGEND

- CITY OF OTTAWA WEPP SAMPLING STATION
- POPULATED PLACE NAME
- ROAD
- RAILWAY
- UTILITY LINE
- SURFACE WATER FEATURE
- WATER AREA
- PROPERTY BOUNDARY
- BEAR BROOK CREEK SUBWATERSHED
- CASTOR RIVER SUBWATERSHED

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT.

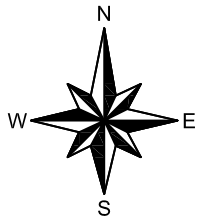
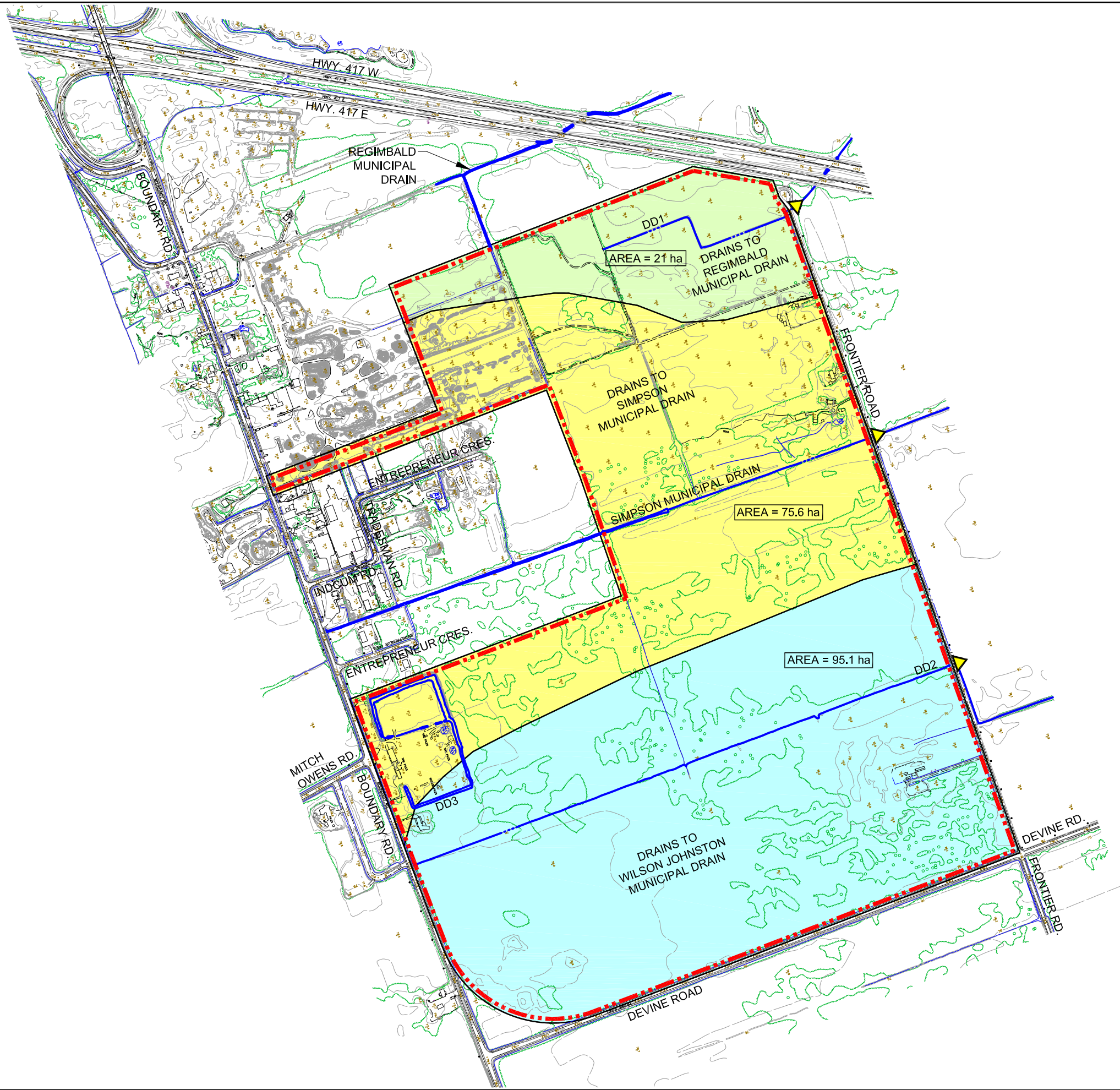
REFERENCE

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, ©QUEENS PRINTER 2012.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18

PROJECT	CAPITAL REGION RESOURCE RECOVERY CENTRE		
TITLE	SURFACE WATER SUBWATERSHEDS		
	PROJECT No. 12-1125-0045	SCALE AS SHOWN	REV. 0.0
	DESIGN JPAO DEC. 2013		
	GIS BR DEC. 2013		
	CHECK PLE AUG. 2014		
REVIEW PAS AUG. 2014			

FIGURE 5-2

PLOT DATE: June 26, 2014
FILENAME: N:\Active\Spatial\IM\Miller_Paving_Ltd\CRRRC\ACAD\Vol 3 (Report Figures)\1211250045-V3-5-3.dwg



LEGEND:

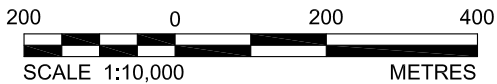
- PROPERTY BOUNDARY
- SURFACE WATER FEATURE
- OUTLET

NOTE

- THIS FIGURE SHOULD BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT.

REFERENCES:

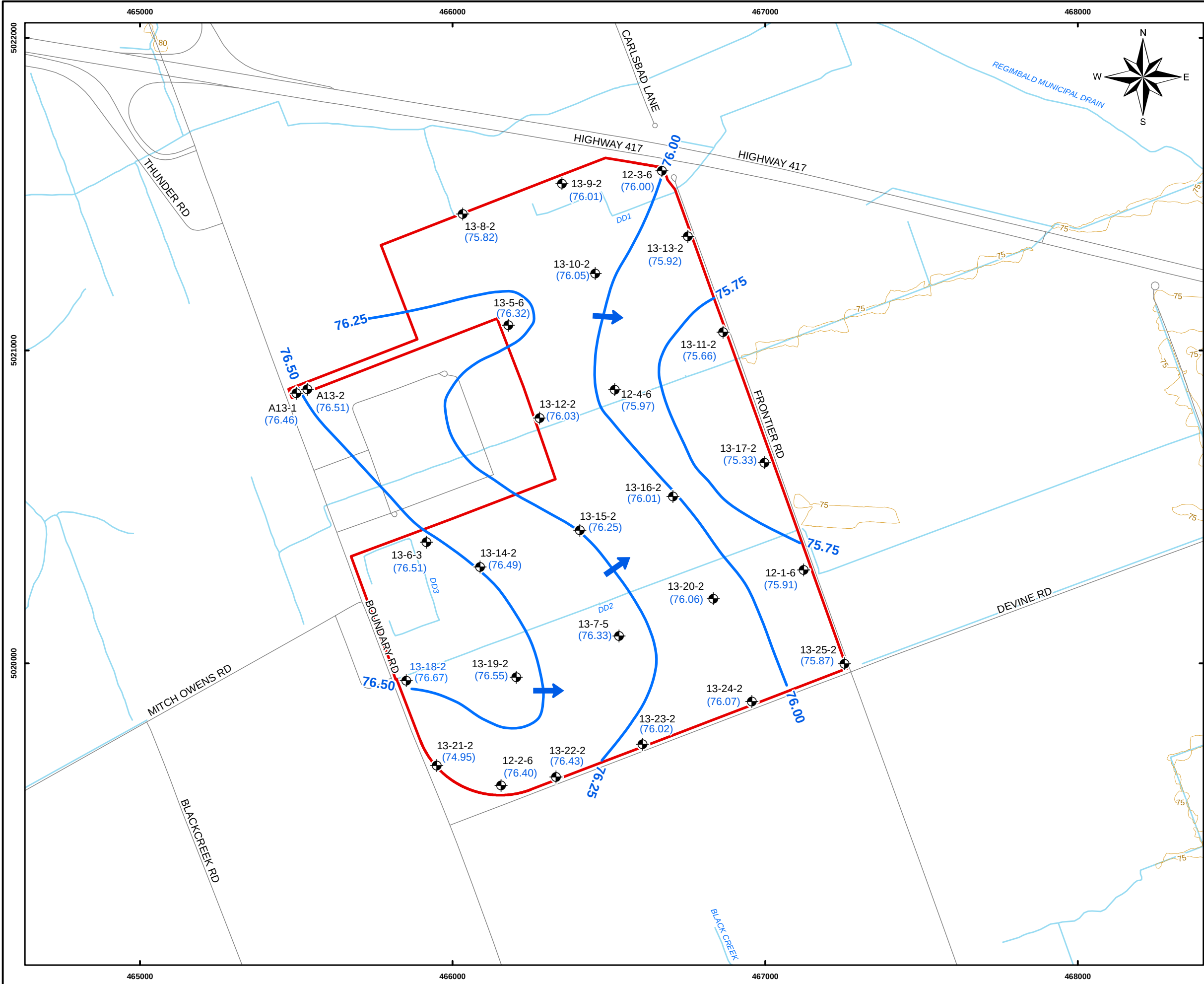
- BASE DRAWING PROVIDED IN A DIGITAL FORMAT BY BASE MAPPING CO. LTD., CONTRACT No. 2517-12, PHOTO DATE: NOVEMBER 7, 2012, DATE RECEIVED: JANUARY 9, 2013.
- PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18



REV	DATE	DES	REVISION DESCRIPTION	CAD	CHK	RW
PROJECT						
ENVIRONMENTAL ASSESSMENT OF THE CAPITAL REGION RESOURCE RECOVERY CENTRE						
TITLE						
EXISTING SITE DRAINAGE						
PROJECT No.		12-1125-0045		FILE No.1211250045-V3-5-3.dwg		
DESIGN	D.H.	22 Jan, 2013	SCALE	AS SHOWN	REV.	0
CAD	M.L.F.	23 Jan, 2013	FIGURE 5-3			
CHECK	P.J.E.	Aug, 2014				
REVIEW	P.A.S.	Aug, 2014				



Path: N:\Active\Spatial_IMM\Miller_Paving_Ltd\CRRRC\GIS\MXDs\12-1125-0045\Working\Phase4\000\Task0120_GHard\G1211250045-4000-0120-7-1-SurfSandGWFlow.mxd



LEGEND

(75.61)

GROUNDWATER ELEVATION ON OCTOBER 16, 2013
(METRES ABOVE SEA LEVEL)

GROUNDWATER ELEVATION CONTOUR (METRES ABOVE SEA LEVEL)

INTERPRETED GROUNDWATER FLOW DIRECTION

MONITORING WELL LOCATION

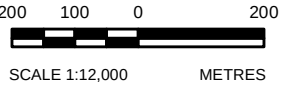
ROAD

CONTOUR LINE, (5m)

SURFACE WATER FEATURE

WATER AREA

PROPERTY BOUNDARY



NOTE

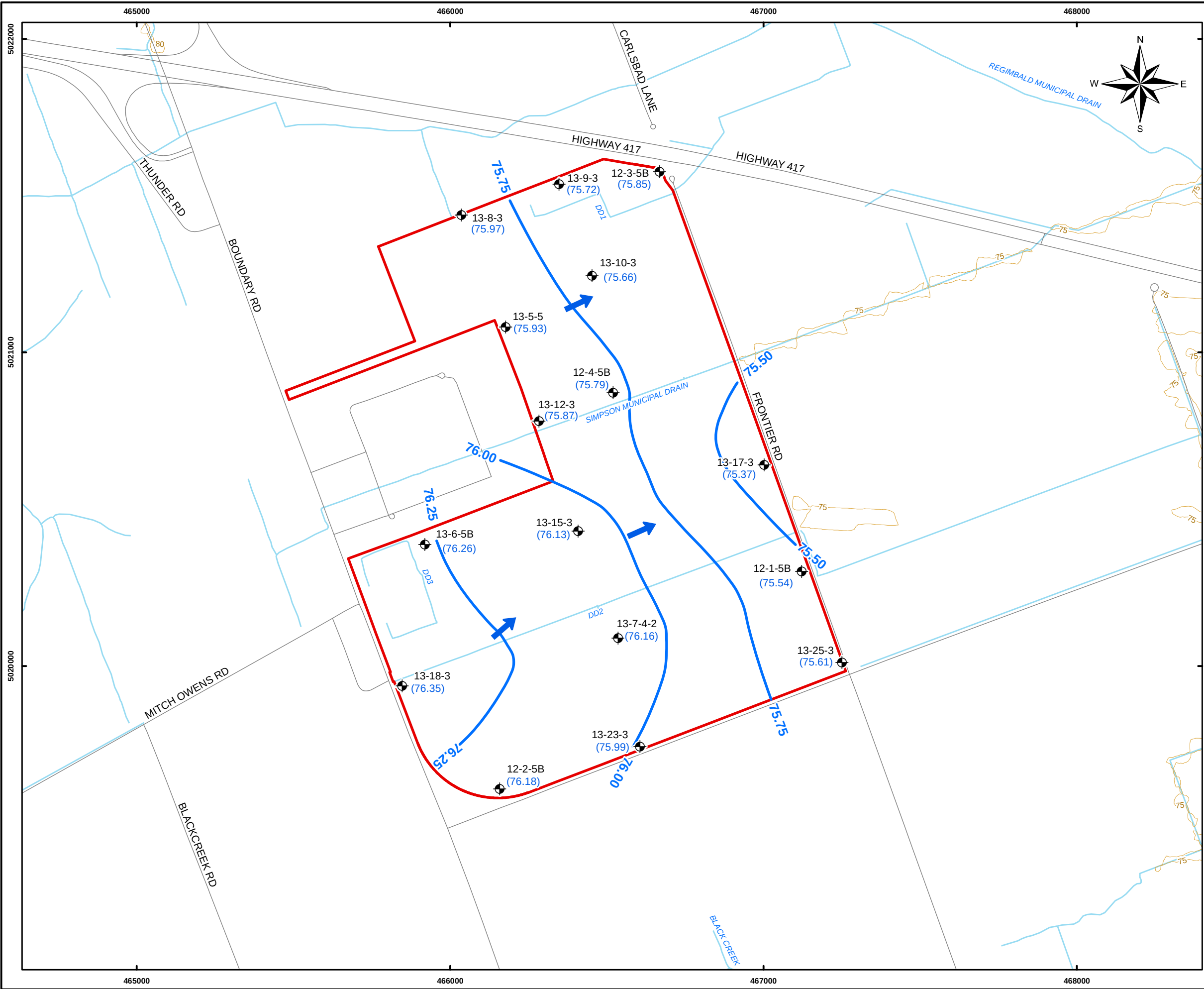
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT.

REFERENCE

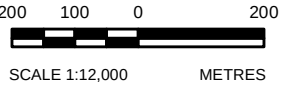
LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2012.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18

PROJECT		CAPITAL REGION RESOURCE RECOVERY CENTRE			
TITLE		SURFICIAL SILTY SAND GROUNDWATER FLOW			
	PROJECT No. 12-1125-0045			SCALE AS SHOWN	REV. 0
	DESIGN	DH	DEC. 2013	FIGURE 7-1	
	GIS	BR/PM	DEC. 2013		
	CHECK	PLE	AUG. 2014		
	REVIEW	PAS	AUG. 2014		

Path: N:\Active\Spatial_IM\Miller_Paving_Ltd\CRRRC\GIS\MXDs\12-1125-0045\Working\Phase4000\Task0120_GHandG\1211250045-4000-0120-7-2-ShallClayGWFlow.mxd



- LEGEND**
- (75.61) GROUNDWATER ELEVATION ON OCTOBER 16, 2013 (METRES ABOVE SEA LEVEL)
 - GROUNDWATER ELEVATION CONTOUR (METRES ABOVE SEA LEVEL)
 - INTERPRETED GROUNDWATER FLOW DIRECTION
 - MONITORING WELL LOCATION
 - CONTOUR LINE, (5m)
 - SURFACE WATER FEATURE
 - WATER AREA
 - PROPERTY BOUNDARY



NOTE

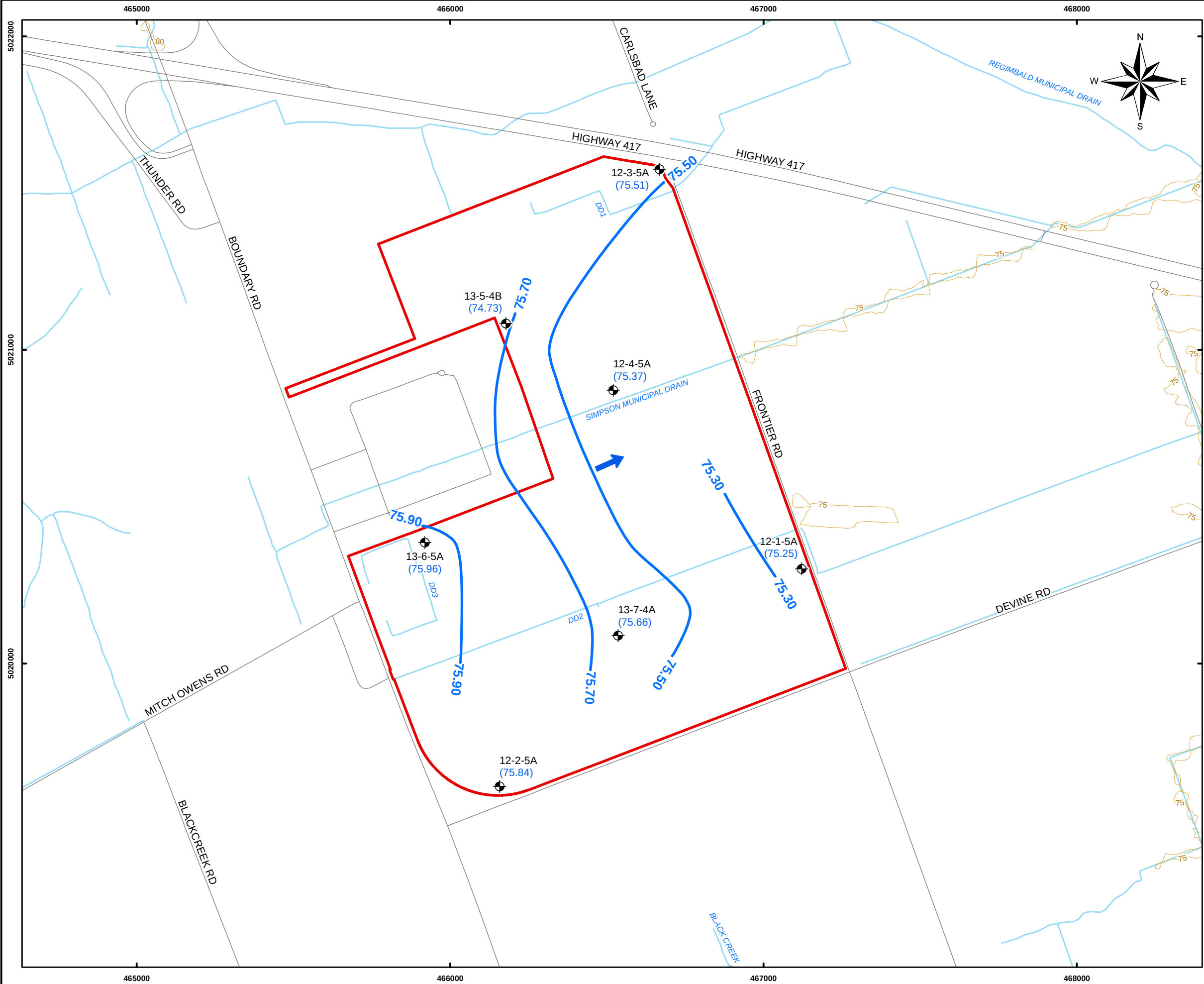
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT.

REFERENCE

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2012.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18

PROJECT		CAPITAL REGION RESOURCE RECOVERY CENTRE			
TITLE		SILTY LAYER GROUNDWATER FLOW			
	PROJECT No. 12-1125-0045			SCALE AS SHOWN	REV. 0
	DESIGN	DH	NOV. 2013	FIGURE 7-2	
	GIS	BR/PM	DEC. 2014		
	CHECK	PLE	AUG. 2014		
	REVIEW	PAS	AUG. 2014		

Path: N:\Active\Spatial_IM\Miller_Paving_Ltd\CRRRC\GIS\MXDs\12-1125-0045\Working\Phase4000\Task0120_GHandG\1211250045-4000-0120-7-3-MiddleSiltyClayGWFlow.mxd



LEGEND

- (75.61) GROUNDWATER ELEVATION ON OCTOBER 16, 2013 (METRES ABOVE SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR (METRES ABOVE SEA LEVEL)
- INTERPRETED GROUNDWATER FLOW DIRECTION
- MONITORING WELL LOCATION
- CONTOUR LINE, (5m)
- SURFACE WATER FEATURE
- WATER AREA
- PROPERTY BOUNDARY



NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT.

REFERENCE

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2012.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18

PROJECT		CAPITAL REGION RESOURCE RECOVERY CENTRE			
TITLE		MIDDLE SILTY CLAY GROUNDWATER FLOW			
	PROJECT No. 12-1125-0045			SCALE AS SHOWN	REV. 0
	DESIGN	DH	NOV. 2013	FIGURE 7-3	
	GIS	BR/PM	DEC. 2013		
	CHECK	PLE	AUG. 2014		
	REVIEW	PAS	AUG. 2014		