

January
2016

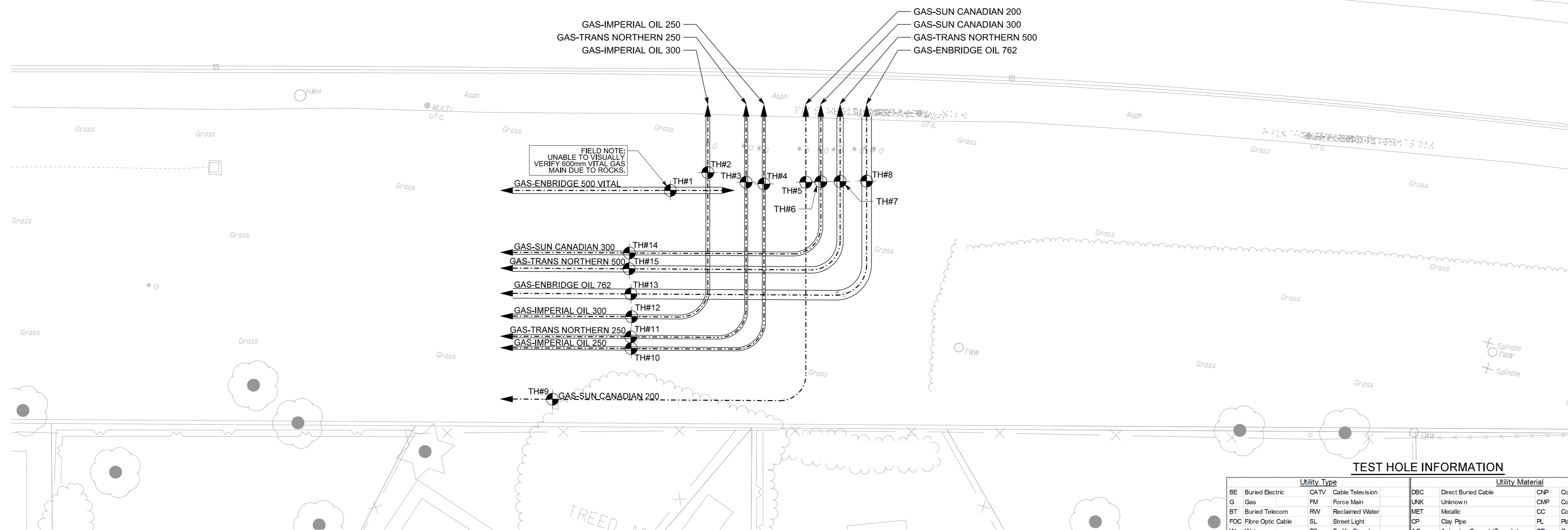
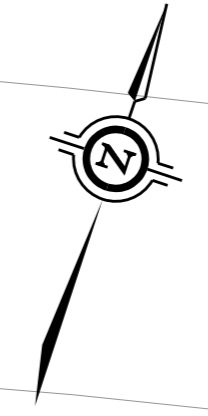
SmartTrack Western Corridor Feasibility Review

Appendix 2H **Buried Pipeline Data**

City of Toronto



EGLINTON AVENUE WEST



- GENERAL NOTES:**
- T2UE'S TEST HOLE INVESTIGATION WAS PERFORMED IN JUNE 2014. CHANGES TO UTILITIES THAT OCCURRED FOLLOWING OUR INVESTIGATION MAY NOT BE SHOWN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN PRIOR TO FINAL DESIGN AND CONSTRUCTION.
 - LIMIT OF INVESTIGATION:
-SOUTH BOULEVARD OF EGLINTON AVENUE WEST, APPROXIMATELY 600m WEST OF HIGHWAY 427 NORTH.
 - MAINLINE UTILITIES INCLUDED IN OUR FIELD INVESTIGATION ARE:
GAS MAINS AND PIPELINES.
 - FIELD VERIFICATION OF UTILITIES WAS COMPLETED USING A COMBINATION OF ELECTROMAGNETIC PIPE AND CABLE LOCATE EQUIPMENT AND VACUUM EXCAVATION EQUIPMENT.
 - EMPTY CONDUITS, SERVICES, LATERALS TO BUILDINGS, ABANDONED FACILITIES SUCH AS STREET LIGHT CABLES, WITHIN THE INVESTIGATION AREA MAY NOT BE SHOWN ON THE DRAWING.
 - T2UE USED AVAILABLE MEANS IN AN ATTEMPT TO DETERMINE THE LOCATION OF UNDOCUMENTED UTILITIES HOWEVER CANNOT BE RESPONSIBLE FOR FINDING ALL UNDOCUMENTED UTILITIES.
 - UTILITY MATERIAL, SIZES AND FLOW SHOWN ON DRAWING ARE BASED ON RECORDS INFORMATION RECEIVED, PROFESSIONAL JUDGEMENT AND FIELD INVESTIGATION.
 - UTILITY WIDTHS ON DRAWING ARE BASED ON RECORDS RECEIVED. WIDTHS ARE SHOWN ON UTILITIES 200mm IN DIAMETER/WIDTH OR LARGER.

TEST HOLE INFORMATION

Utility Type		Utility Material	
BE Buried Electric	CATV Cable Television	DBC Direct Buried Cable	CNP Concrete Pipe
G Gas	FM Force Main	UNK Unknown	CMP Corrugated Metal Pipe
BT Buried Telecom	RW Reclaimed Water	MET Metallic	CC Concrete/Clay Cap
FOC Fibre Optic Cable	SL Street Light	CP Clay Pipe	PL Plastic
W Water	TS Traffic Signal	AC Asbestos Cement (Transite)	CD Concrete Duct
SAN Sanitary	EXP Exploratory	OP Copper Pipe	
STM Storm	UNK Unknown		

TH #	TH Date (m/d/y)	Status	Utility Type	Utility Material	Surface Type									
					Utility Width (mm)	Ref. Point Elev. (mm)	Bottom of Utility Elev. (mm)	Top of Utility Elev. (mm)	Manual Depth From Grade (m)	Core Sample Depth (m)	NG	IDM By	Surface Type	Thickness (mm)
1*	6/18/14	-	EXP	-	153.42	-	150.21	-	3.21	0	↔	Root & Cap	NG	-
2*	6/18/14	-	G	MET 300	153.46	-	151.41	-	2.05	0	↑	Root & Cap	NG	-
3*	6/18/14	-	G	MET 250	153.38	-	151.46	-	1.92	0	↑	Root & Cap	NG	-
4*	6/18/14	-	G	MET 250	153.36	-	151.47	-	1.89	0	↑	Root & Cap	NG	-
5*	6/18/14	-	G	MET 200	153.26	-	151.42	-	1.84	0	↑	Root & Cap	NG	-
6*	6/18/14	-	G	MET 300	153.23	-	150.09	-	3.14	0	↑	Root & Cap	NG	-
7*	6/18/14	-	G	MET 500	153.14	-	150.13	-	3.01	0	↑	Root & Cap	NG	-
8*	6/18/14	-	G	MET 762	153.05	-	149.94	-	3.11	0	↑	Root & Cap	NG	-
9*	6/18/14	-	G	MET 200	153.86	-	152.55	-	1.31	0	↔	Root & Cap	NG	-
10*	6/18/14	-	G	MET 250	153.76	-	152.01	-	1.75	0	↔	Root & Cap	NG	-
11*	6/18/14	-	G	MET 250	153.73	-	151.98	-	1.75	0	↔	Root & Cap	NG	-
12*	6/18/14	-	G	MET 300	153.71	-	151.88	-	1.83	0	↔	Root & Cap	NG	-
13*	6/18/14	-	G	MET 762	153.67	-	151.04	-	2.63	0	↔	Root & Cap	NG	-
14*	6/18/14	-	G	MET 300	153.56	-	151.11	-	2.45	0	↔	Root & Cap	NG	-
15*	6/18/14	-	G	MET 500	153.60	-	151.18	-	2.42	0	↔	Root & Cap	NG	-

NOTES:

TH1 - ENBRIDGE GAS VITAL MAIN TEST HOLE WAS ABANDONED AT DEPTH OF 3.21m (FROM SURFACE) DUE TO LARGE ROCKS. PIPELINE WAS VERIFIED ALONG THIS ALIGNMENT WITH ELECTROMAGNETIC DESIGNATING EQUIPMENT. UNABLE TO VISUALLY VERIFY.

TH2 & TH12 - IMPERIAL OIL PIPELINE

TH3 & TH11 - TRANS NORTHERN PIPELINE

TH4 & TH10 - IMPERIAL OIL PIPELINE

TH5 & TH19 - SUN CANADIAN PIPELINE

TH6 & TH14 - SUN CANADIAN PIPELINE

TH7 & TH15 - TRANS NORTHERN PIPELINE

TH8 & TH13 - ENBRIDGE OIL PIPELINE

ASCE QUALITY LEVELS

THE UTILITY INFORMATION SHOWN ON THIS DRAWING WAS COLLECTED IN ACCORDANCE TO ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY QUALITY LEVEL WHICH INDICATES THE LEVEL OF EFFORT USED TO DETERMINE THE LOCATION OF THE DATA.

QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AN PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO THE QUALITY LEVEL "D" INFORMATION.

QUALITY LEVEL "B" - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE UTILITIES.

QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES.

LEGEND

	GAS MAIN		BURIED ELECTRIC STREET LIGHT
	GAS SERVICE		BURIED ELECTRIC TRAFFIC LIGHT
	WATER MAIN		UNKNOWN
	WATER SERVICE		FIBRE OPTIC CABLE
	SANITARY SEWER		CABLE TV
	SANITARY LATERAL		BURIED TELECOMMUNICATIONS
	STORM SEWER		QUALITY LEVEL "B"
	STORM LATERAL		QUALITY LEVEL "C"
	BURIED ELECTRIC		QUALITY LEVEL "D"
	T.O.P.		NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
	QUALITY LEVEL "A"		NOT SURVEYED, LOCATION BASED ON RECORD OBSERVATION
	FLOW ARROW		CONTINUATION ARROW
	END CAP		

NOTE

THIS DRAWING HAS BEEN PREPARED FOR THE USE OF T2UE'S CLIENT AND MAY NOT BE USED, REPRODUCED OR RELIED UPON BY THIRD PARTIES, EXCEPT AS AGREED BY T2UE AND ITS CLIENT, AS REQUIRED BY LAW OR FOR USE BY GOVERNMENT REVIEWING AGENCIES. T2UE ACCEPTS NO RESPONSIBILITY, AND DENIES ANY LIABILITY WHATSOEVER, TO ANY PARTY THAT MODIFIES THIS DRAWING WITHOUT T2UE'S EXPRESS WRITTEN CONSENT.

NOTE

THE ENGINEER'S SEAL HEREON IS TO CERTIFY THAT THE UTILITIES SHOWN HAVE BEEN INVESTIGATED IN ACCORDANCE WITH STANDARD SUE INDUSTRY PRACTICES. ALL OTHER INFORMATION HEREON HAS BEEN PROVIDED BY OTHERS AND IS NOT A PART OF THIS CERTIFICATION.



DIGITAL INFORMATION				No.	DATE	REVISIONS	INITIAL	SIGNED			EGLINTON AVENUE WEST 600m WEST OF HIGHWAY 427 NORTH TEST HOLE INVESTIGATION								
SURVEY (Year) y14155sv2d DESIGN UTILITY y14155sue.dgn MAPPING STREETLINE y14155psl.dgn									GORDON MacMILLAN, P.Eng. DIRECTOR, DESIGN & CONSTRUCTION -LINEAR INFRASTRUCTURE		DESIGN	N/A	DRAWN	A.J.W.	CHECKED	B.H.	CONTRACT No.	14EY-16RD	
									PETER M. CROCKETT, P. ENG. EXECUTIVE DIRECTOR TECHNICAL SERVICES		SCALE:	HORIZONTAL 1:200		DRAWING NUMBER	y14155sue1		SHEET	01 OF 01	
									MAURIZIO BARBON, P. ENG. MANAGER, DESIGN & CONSTRUCTION -LINEAR INFRASTRUCTURE TORONTO & EAST YORK DISTRICT		DATE:	JULY 03, 2014							