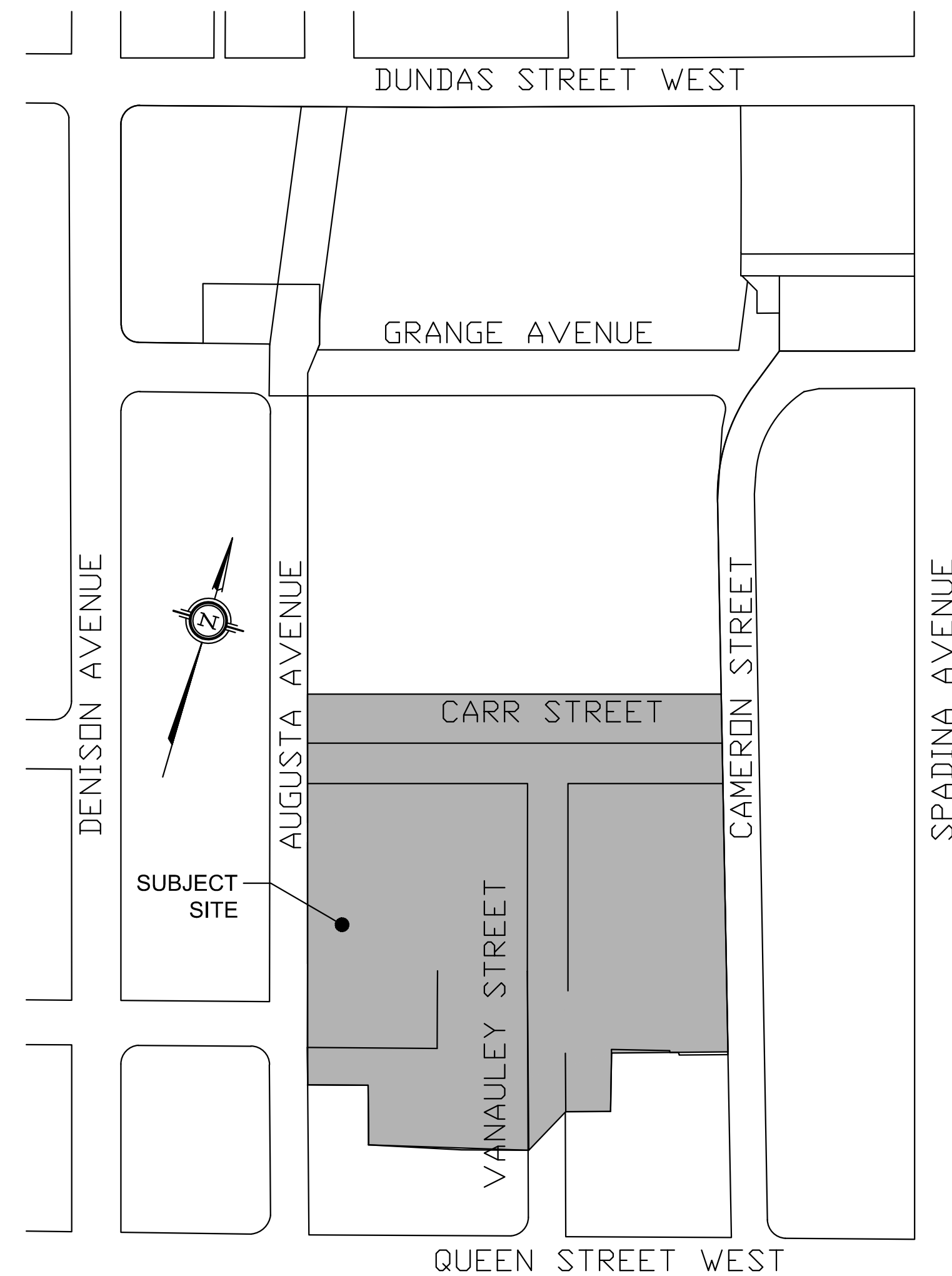


TORONTO HYDRO UNDERGROUND REMOVALS ALEXANDER PARK



ELECTRICAL CONSTRUCTION STANDARDS	
TITLE	NUMBER (LATEST VERSION)
3-PHASE LOOP-THROUGH GROUND "Y" SYSTEM	13-7200
COLD SHRINK METHOD, 27.6kV, 1 CONDUCTOR	16-3860
INDOOR COLD SHRINK METHOD, 27.6kV, 1 CONDUCTOR	16-4140
CABLE CHAMBER	18-5100
MATERIALS & INSTALLATION PROCEDURES	31-2110
STRUCTURAL DETAILS	31-2130
TYPE 'C'- FOR PRIMARY CABLES ONLY (900x1200x1050mm)	31-3135
CABLE RACK C TYPE	31-8260
CABLE ARM	31-8270

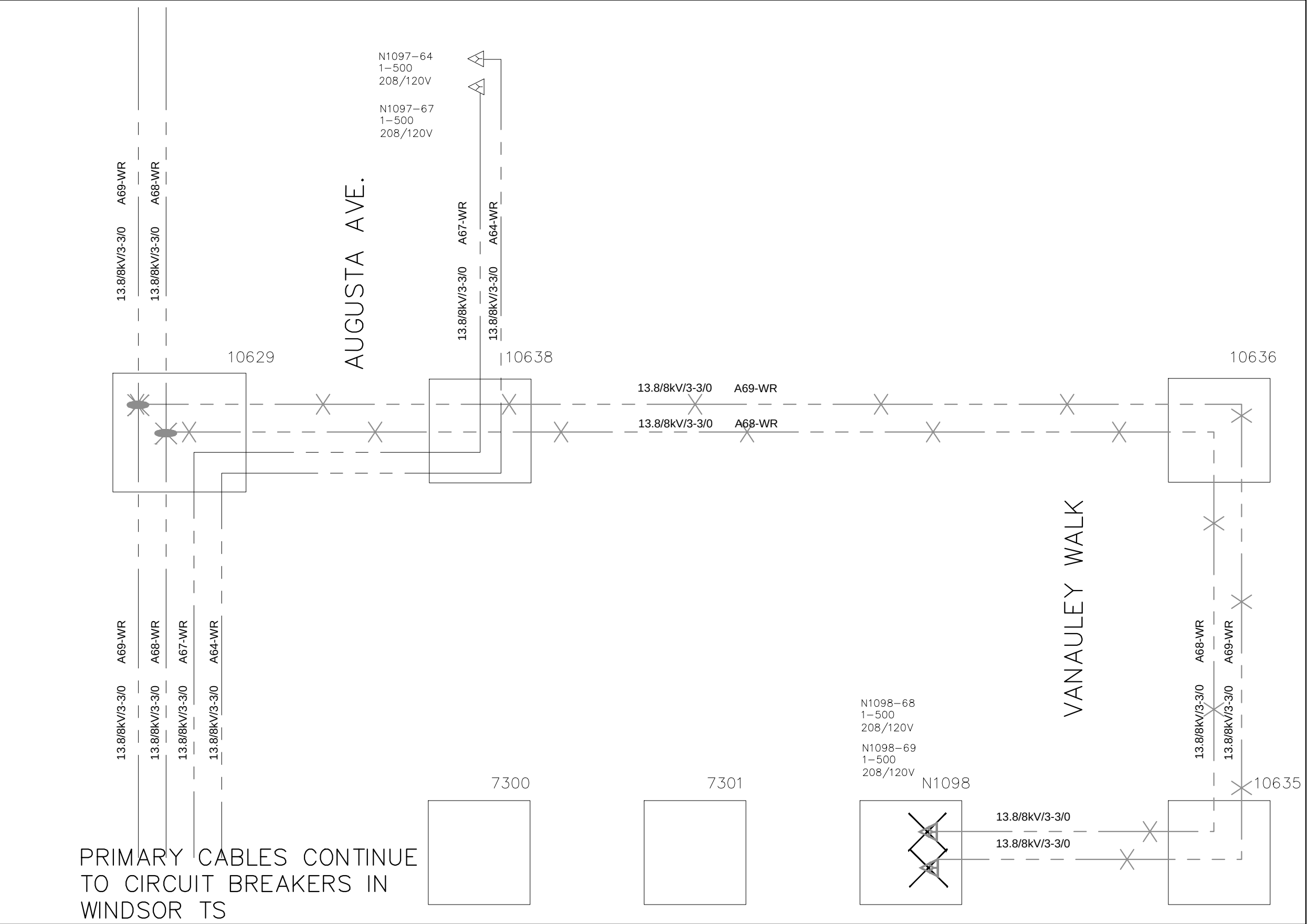
DRAWING LEGEND		
SHEET	DRAWING NUMBER	DESCRIPTION
1	2013-XXXXX1	TITLE SHEET
2	2013-XXXXX2	SCHEMATIC
3	2013-XXXXX3	CIVIL PLAN
4	2013-XXXXX4	ELECTRICAL PLAN
5	2013-XXXXX5	ELECTRICAL PLAN



 DPM Energy Inc. 8000 Jane St. Suite A200 Vaughan, ON L4K 5B8 Tel: (905)-597-7200 Fax: (905)-597-7271 E-mail: info@dpmenergy.com www.dpmenergy.com		176A 13 004	
		PRELIMINARY DRAWING NOT TO BE USED FOR CONSTRUCTION	
3			
2			
1	JAN 07/14	FIRST SUBMISSION	KX RH
rev.	date	Description	by appd.
 COS TORONTO			
drawn by	civil design	date yy/ mm/ dd	
K.XU			
ip reference #	civil approval	date yy/ mm/ dd	
W13193			
ellipse project #	electrical design	date yy/ mm/ dd	
XXXXXX	R.HOLDER	_/_/_	
construction project #	electrical approval	date yy/ mm/ dd	
XXXXXX	N.IOZZO	_/_/_	
scale	construction approval	date yy/ mm/ dd	
1:500	M.ALTOMARE	_/_/_	
dwg. title:			
ALEXANDER PARK CABLE & DUCT REMOVAL PHASE 1A TITLE SHEET			
dwg. no.		sheet no.	rev. no.
2013-XXXXX		1 of 5	0

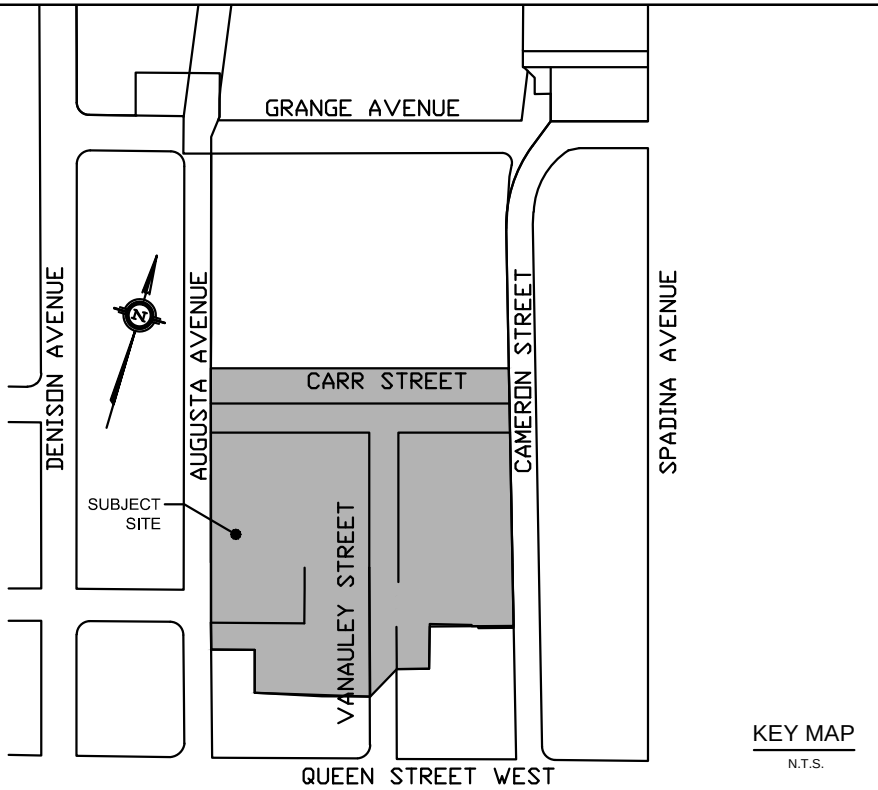
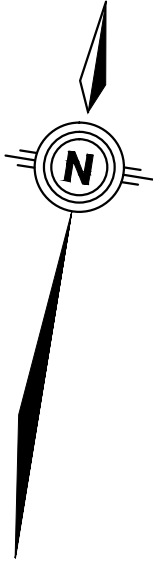
LEGEND			
INSTALL			
	PROPOSED 3C 3/0 CU 15kV TRXLPE PRIMARY CABLE		PROPOSED CABLE CHAMBER
	CONDUCTOR SPLICE OR WIRE CHANGE PROPOSED		
REMOVAL			
	TX1 3PH YY DY PAD/SUBM PROPOSED REMOVE		PRIMARY CONDUCTOR SPLICE OR WIRE CHANGE PROPOSED REMOVE
	U/G 3-PHASE PRIMARY FEEDER/LATERAL CABLE PROPOSED REMOVE		
EXISTING			
	U/G 3-PHASE LATERAL/DISTRIBUTION CABLE EXISTING		
	TX1 3PH YY DY PAD/SUBM EXISTING		
	EXISTING CABLE CHAMBER		

PRIMARY CABLES CONTINUE TO TRANSFORMERS N1095-68 AND N1095-69.

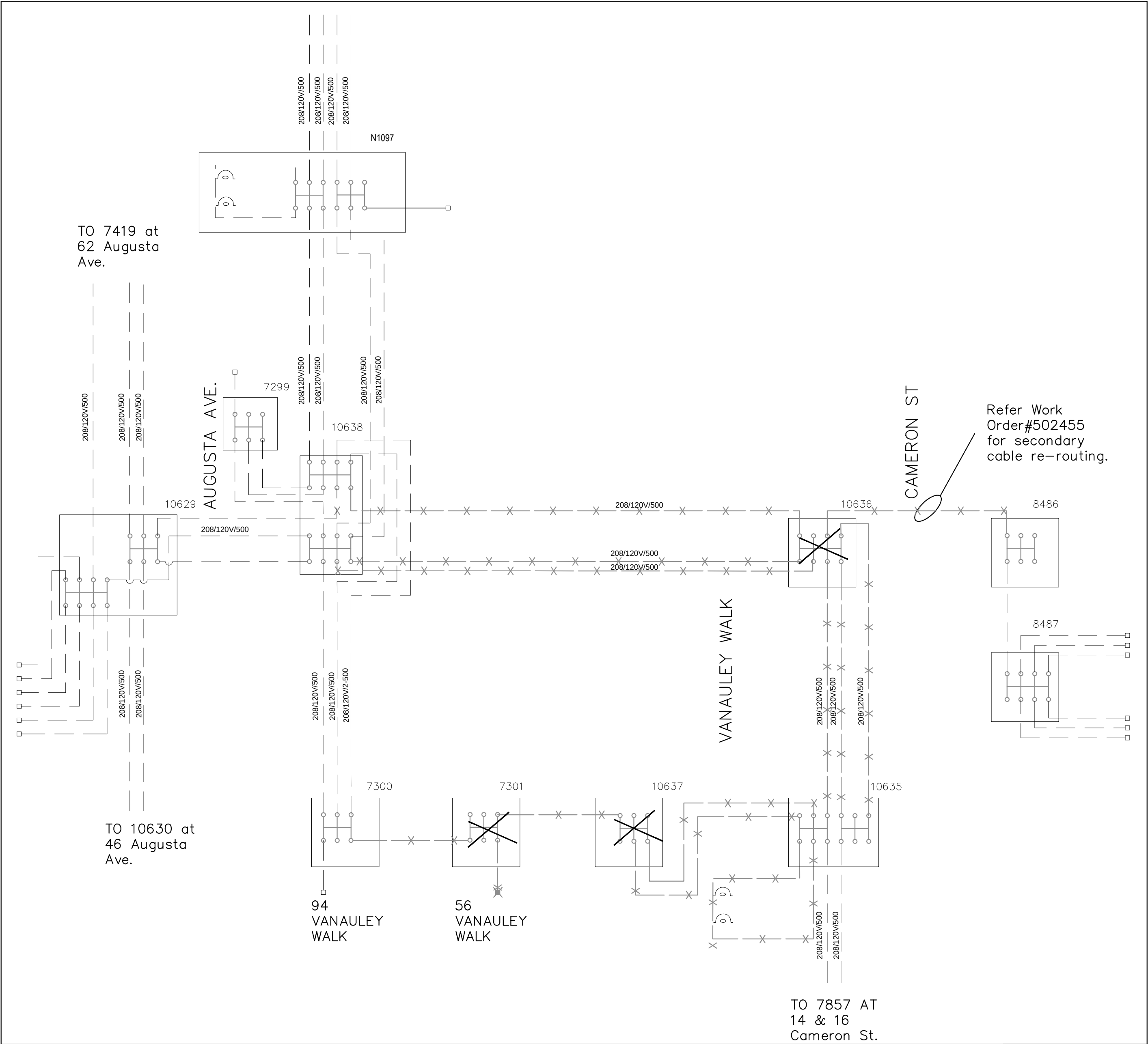


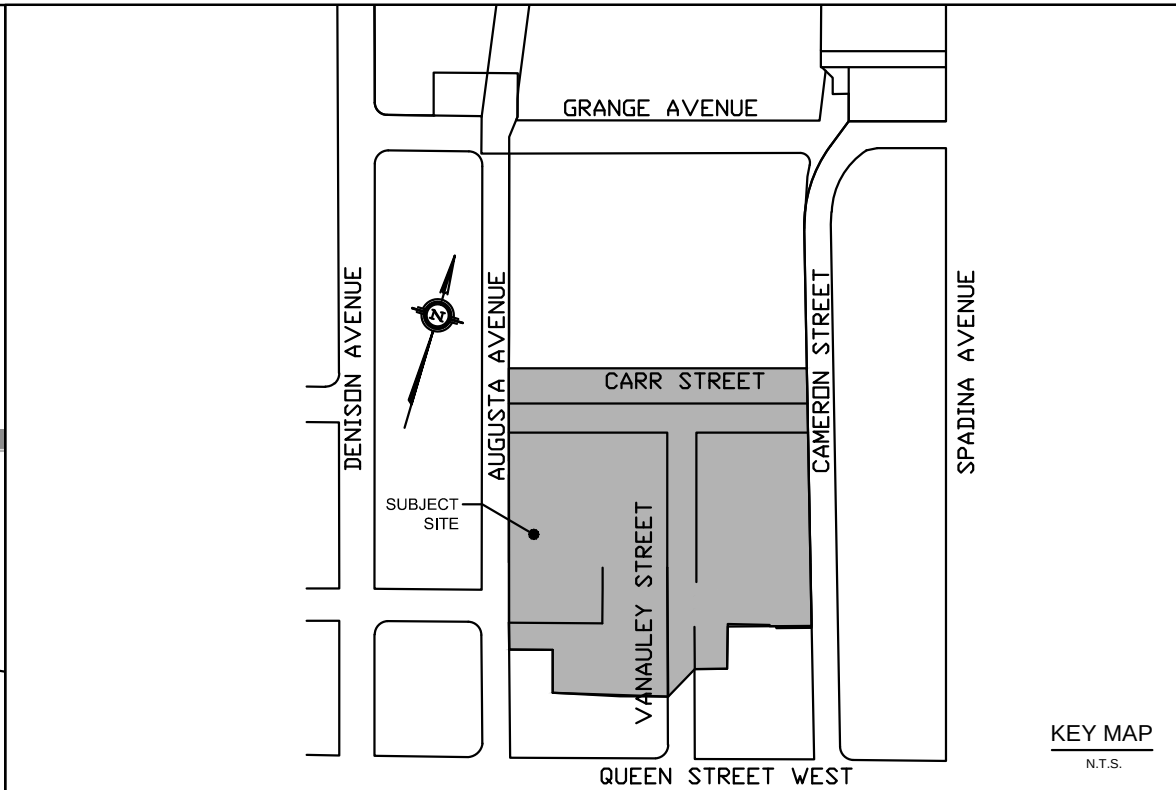
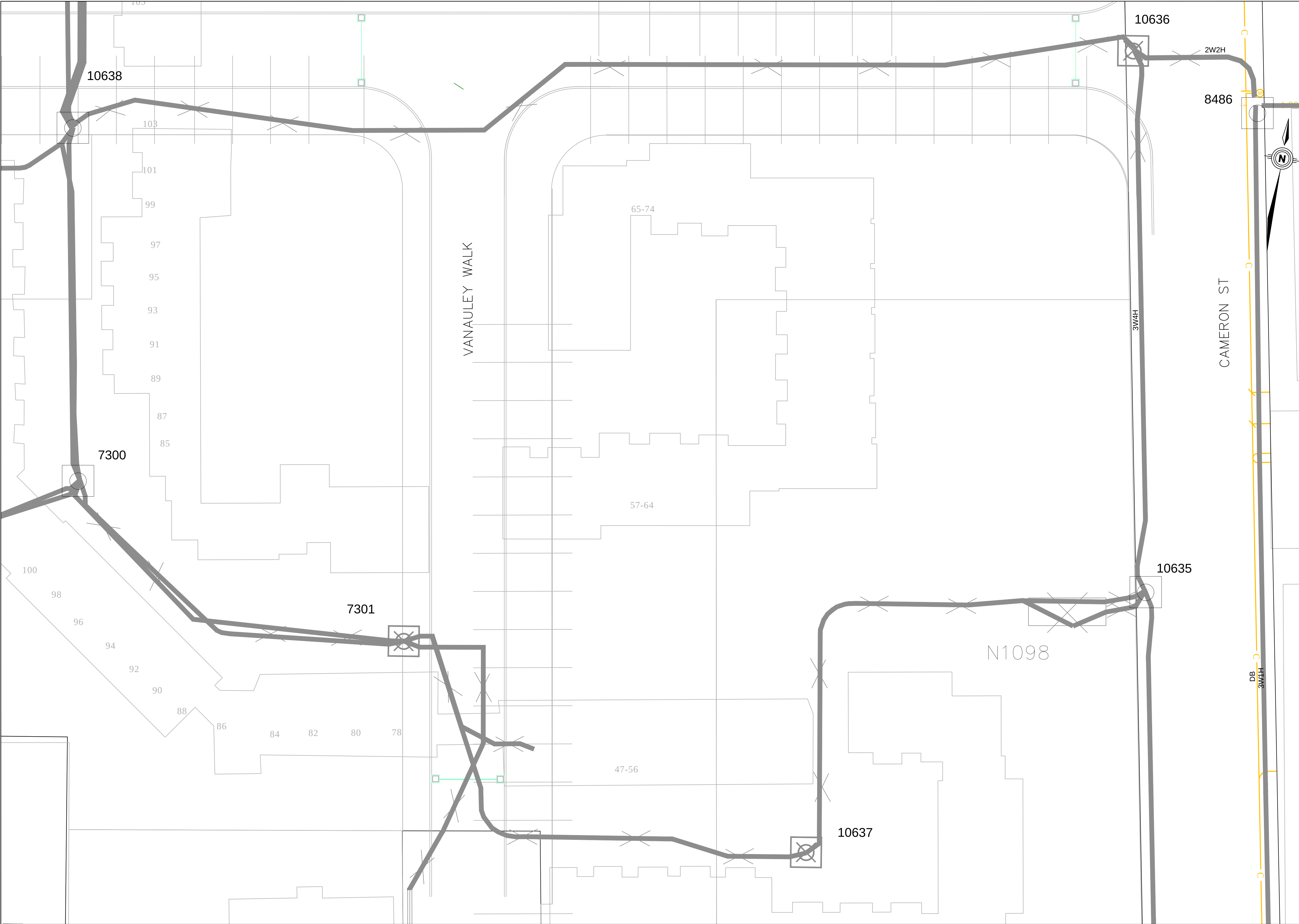
SCHEMATIC - PHASE 1A PRIMARY

LEGEND			
INSTALL			
	U/G SECONDARY CABLE PROPOSED		PROPOSED CABLE CHAMBER
	HOMAC PROPOSED		SECONDARY U/G CABLE SPLICE OR WIRE CHANGE PROPOSED
REMOVAL			
	U/G SECONDARY CABLE PROPOSED REMOVE		SECONDARY NETWORK PROTECTIVE PROPOSED REMOVE
	HOMAC PROPOSED REMOVE		SECONDARY U/G SERVICE PROPOSED REMOVE
EXISTING			
	EXISTING CABLE CHAMBER		U/G SECONDARY CABLE EXISTING
	EXISTING SECONDARY U/G SERVICE		EXISTING SECONDARY NETWORK PROTECTIVE
	EXISTING HOMAC		EXISTING SECONDARY U/G CABLE SPLICE OR WIRE CHANGE



TO 7274 at 141 Vanauley Walk





LEGEND			
REMOVAL			
	CABLE CHAMBER PROPOSED REMOVAL		CONCRETE ENCASED DUCT BANK PROPOSED REMOVAL
	TWO UNIT NETWORK TRANSFORMER VAULT 250/433V SCALED 8530mm X 3050mm PROPOSED REMOVE		
EXISTING			
	EXISTING VAULT		EXISTING CABLE CHAMBER
	EXISTING DUCTS		



DPM Energy Inc.

8000 Jane St.
Suite A200
Vaughan, ON
L4K 5B8

Tel: (905)–597–7200 Fax: (905)–597–7271
E-mail: info@dpmenergy.com
www.dpmenergy.com

176A 13 004

PRELIMINARY
DRAWING
NOT TO BE
USED FOR
CONSTRUCTION

3					
2					
1	JAN 07/14	FIRST SUBMISSION	KX	RH	
rev.	date	Description	by	appd.	

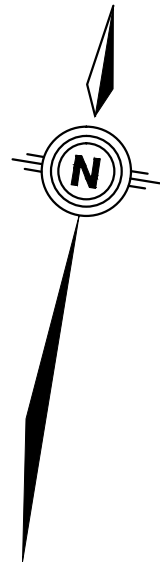
TORONTO COS HYDRO TORONTO		
drawn by	civil design	date yy/ mm/ dd
K.XU		
ip reference #	civil approval	date yy/ mm/ dd
XXXXXX		
ellipse project #	electrical design	date yy/ mm/ dd
XXXXXX	R.HOLDER	__/__/__
construction project #	electrical approval	date yy/ mm/ dd
XXXXXX	N.IOZZO	__/__/__
scale	construction approval	date yy/ mm/ dd
1:200	M.ALTOmare	__/__/__

dwg. title:

ALEXANDER PARK
CABLE & DUCT REMOVAL
PHASE 1A
CIVIL LAYOUT

dwg. no.	2013-XXXXX	sheet no.	3 of 5	rev. no.	0
----------	------------	-----------	--------	----------	---





WORK INSTRUCTIONS
U/G - CABLE/RACKING/TERMINATION - W.O.#_____REMOVE 504m OF 1-3C-3/0 PILC 15kV CABLE BETWEEN 10629 AND N1098.
U/G - SWITCHING AND ELECTRICAL SUPPORT - W.O.#_____COMPLETE ALL REQUIRED SWITCHING NECESSARY TO CONSTRUCT PROJECT.

PRIMARY CABLES CONTINUE
TO N1097-67 AND
N1097-64

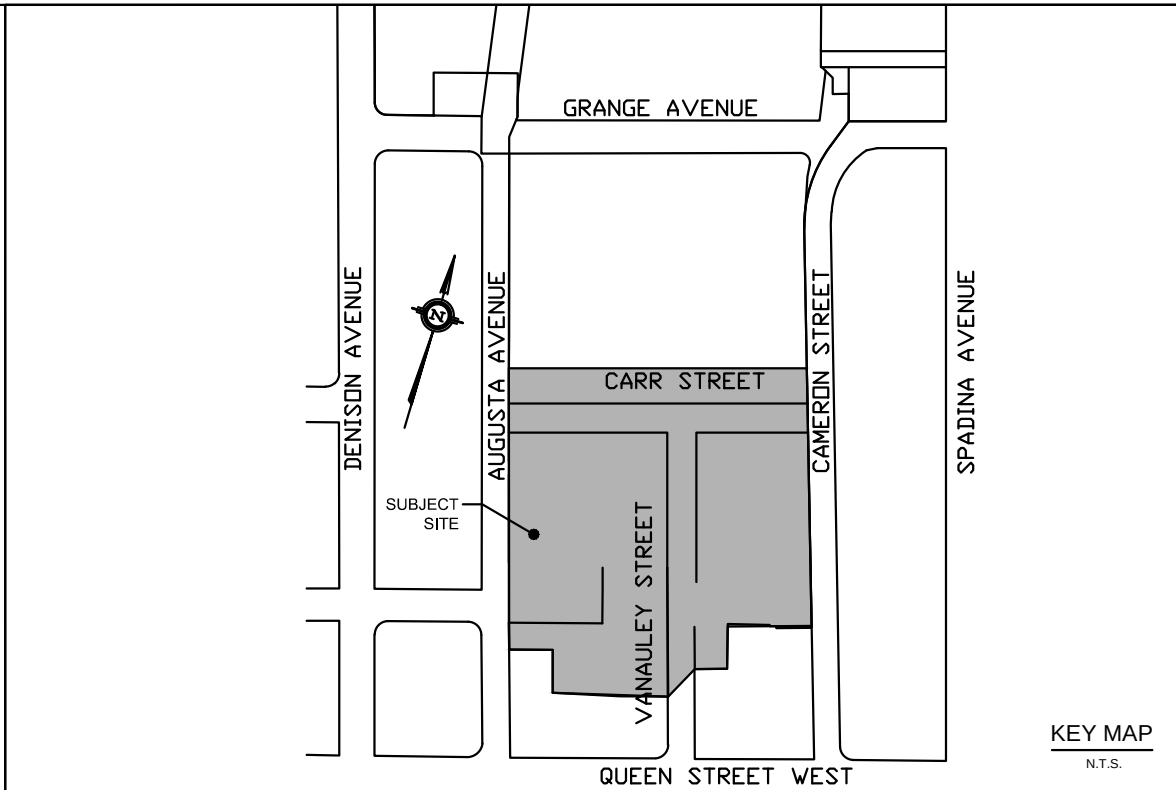
PRIMARY CABLES CONTINUE
TO TRANSFORMERS
N1095-68 AND N1095-69.

PRIMARY CABLES CONTINUE
TO CIRCUIT BREAKERS IN
WINDSOR TS

CABLE RECOVER SCHEDULE FOR A68-WR						
LOCATION	CABLE DESIGNATION	CABLE DESCRIPTION	*APPROX LENGTHS (m)	X NO. OF RUNS	TOTAL LENGTHS (m)	METHOD OF PULL
10629 TO 10638	A68-WR	1-3C -3/0 PILC 15kV	61	1	61	GRIP
10638 TO 10636	A68-WR	1-3C -3/0 PILC 15kV	121	1	121	GRIP
10636 TO 10635	A68-WR	1-3C -3/0 PILC 15kV	60	1	60	GRIP
10635 TO N1098-68	A68-WR	1-3C -3/0 PILC 15kV	10	1	121	GRIP

* APPROX LENGTHS DID NOT INCLUDE ADDITIONAL CABLE QUANTITIES FOR SPLICING, RACKING AND/OR TERMINATIONS.

CABLE RECOVER SCHEDULE FOR A69-WR						
LOCATION	CABLE DESIGNATION	CABLE DESCRIPTION	*APPROX LENGTHS (m)	X NO. OF RUNS	TOTAL LENGTHS (m)	METHOD OF PULL
10629 TO 10638	A69-WR	1-3C -3/0 PILC 15kV	61	1	61	GRIP
10638 TO 10636	A69-WR	1-3C -3/0 PILC 15kV	121	1	121	GRIP
10636 TO 10635	A69-WR	1-3C -3/0 PILC 15kV	60	1	60	GRIP
10635 TO N1098-69	A69-WR	1-3C -3/0 PILC 15kV	10	1	121	GRIP



LEGEND			
INSTALL			
	PROPOSED 3C 3/0 CU 15kV TRALPE PRIMARY CABLE		PROPOSED CABLE CHAMBER
	CONDUCTOR SPLICE OR WIRE CHANGE PROPOSED		
REMOVAL			
	TX1 3PH YY DY PAD/SUBM PROPOSED REMOVE		PRIMARY CONDUCTOR SPLICE OR WIRE CHANGE PROPOSED REMOVE
	U/G 3-PHASE PRIMARY FEEDER/LATERAL CABLE PROPOSED REMOVE		
EXISTING			
	U/G 3-PHASE LATERAL/DISTRIBUTION CABLE EXISTING		
	TX1 3PH YY DY PAD/SUBM EXISTING		
	EXISTING CABLE CHAMBER		



DPM Energy Inc.
8000 Jane St.
Suite A200
Vaughan, ON
L4K 5B8
Tel: (905)-597-7200 Fax: (905)-597-7271
E-mail: info@dpmenergy.com
www.dpmenergy.com

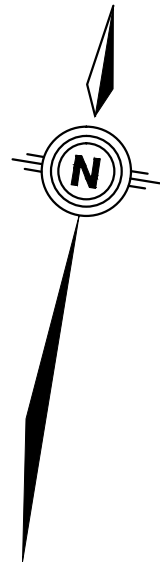
176A 13 004

PRELIMINARY
DRAWING
NOT TO BE
USED FOR
CONSTRUCTION

3					
2					
1	JAN 07/14	FIRST SUBMISSION	KX	RH	
rev.	date	Description	by	appd.	

 COS TORONTO		
drawn by K.XU	civil design	date yy/ mm/ dd
ip reference # W13193	civil approval	date yy/ mm/ dd
ellipse project # XXXXXX	electrical design R.HOLDER	date yy/ mm/ dd __/__/__
construction project # XXXXXX	electrical approval N.IOZZO	date yy/ mm/ dd __/__/__
scale 1:500	construction approval M.ALTOMARE	date yy/ mm/ dd __/__/__
dwg. title: ALEXANDER PARK CABLE & DUCT REMOVAL PHASE 1A PRIMARY ELECTRICAL LAYOUT		
dwg. no. 2013-XXXXX		sheet no. 4 of 5 rev. no. 0





WORK INSTRUCTIONS
U/G - CABLE/RACKING/TERMINATION - W.O.#_____REMOVE 504m OF 1-3C-3/0 PILC 15kV CABLE BETWEEN 10629 AND N1098.
U/G - SWITCHING AND ELECTRICAL SUPPORT - W.O.#_____ COMPLETE ALL REQUIRED SWITCHING NECESSARY TO CONSTRUCT PROJECT.

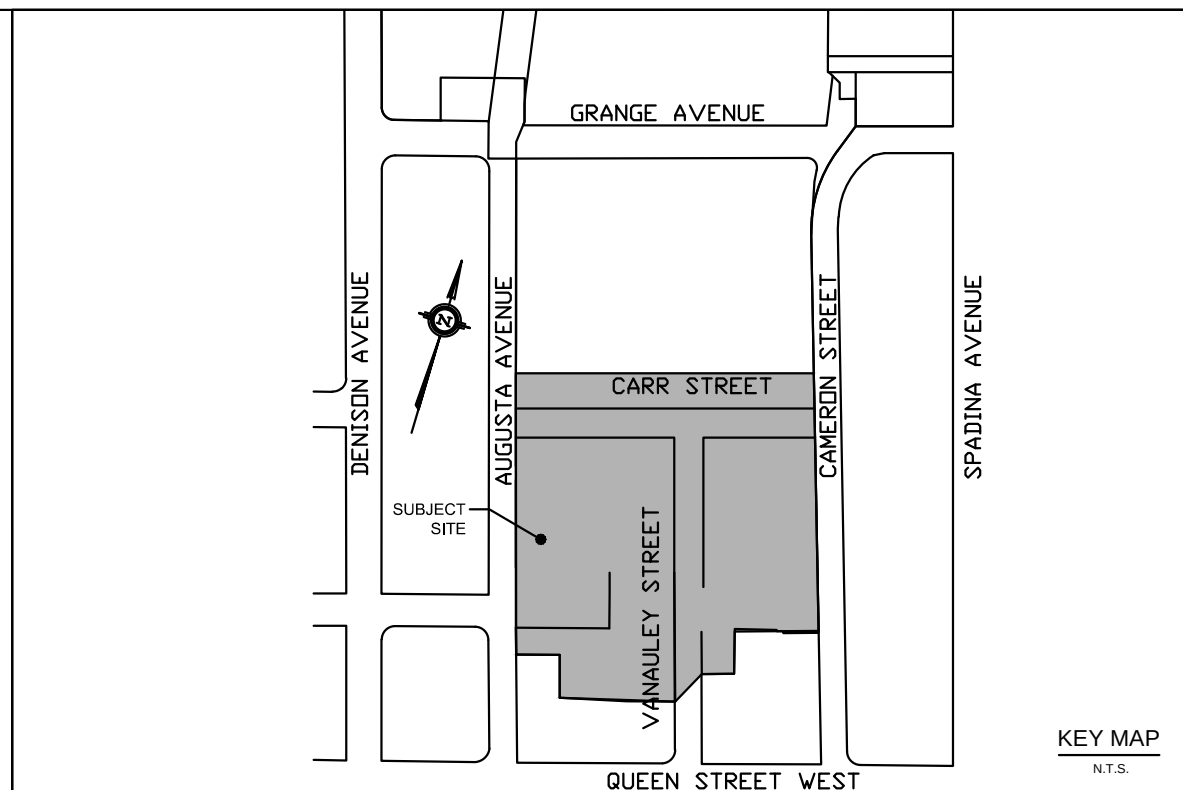
SECONDARY CABLES
CONTINUE TO 7419 AT 62
AUGUSTA AVE.

SECONDARY CABLES
CONTINUE TO 10630 AT 46
AUGUSTA AVE.

SECONDARY CABLES
CONTINUE TO N1097-67
AND N1097-64

SECONDARY
CABLES CONTINUE
TO 14 & 16
CAMERON ST.

Refer Work
Order#502455
for secondary
cable re-routing.



LEGEND			
INSTALL			
	208/120V/500		U/G SECONDARY CABLE PROPOSED
	HOMAC PROPOSED		SECONDARY U/G CABLE SPLICE OR WIRE CHANGE PROPOSED
REMOVAL			
	U/G SECONDARY CABLE PROPOSED REMOVE		SECONDARY NETWORK PROTECTIVE PROPOSED REMOVE
	HOMAC PROPOSED REMOVE		SECONDARY U/G SERVICE PROPOSED REMOVE
EXISTING			
	EXISTING CABLE CHAMBER		U/G SECONDARY CABLE EXISTING
	EXISTING SECONDARY U/G SERVICE		EXISTING SECONDARY NETWORK PROTECTIVE
	EXISTING HOMAC		EXISTING SECONDARY U/G CABLE SPLICE OR WIRE CHANGE



DPM Energy Inc.
8000 Jane St.
Suite A200
Vaughan, ON
L4K 5B8
Tel: (905)-597-7200 Fax: (905)-597-7271
E-mail: info@dpmenergy.com
www.dpmenergy.com

176A 13 004

PRELIMINARY
DRAWING
NOT TO BE
USED FOR
CONSTRUCTION

3				
2				
1	JAN 07/14	FIRST SUBMISSION	KX	RH
rev.	date	Description	by	appd.

 COS TORONTO		
drawn by	civil design	date yy/ mm/ dd
K.XU		
ip reference #	civil approval	date yy/ mm/ dd
W13193		
ellipse project #	electrical design	date yy/ mm/ dd
XXXXXX	R.HOLDER	__/__/__
construction project #	electrical approval	date yy/ mm/ dd
XXXXXX	N.IOZZO	__/__/__
scale	construction approval	date yy/ mm/ dd
1:500	M.ALTOMARE	__/__/__

dwg. title: ALEXANDER PARK CABLE & DUCT REMOVAL PHASE 1A SECONDARY ELECTRICAL LAYOUT		
dwg. no.	sheet no.	rev. no.
2013-XXXXX	5 of 5	0

