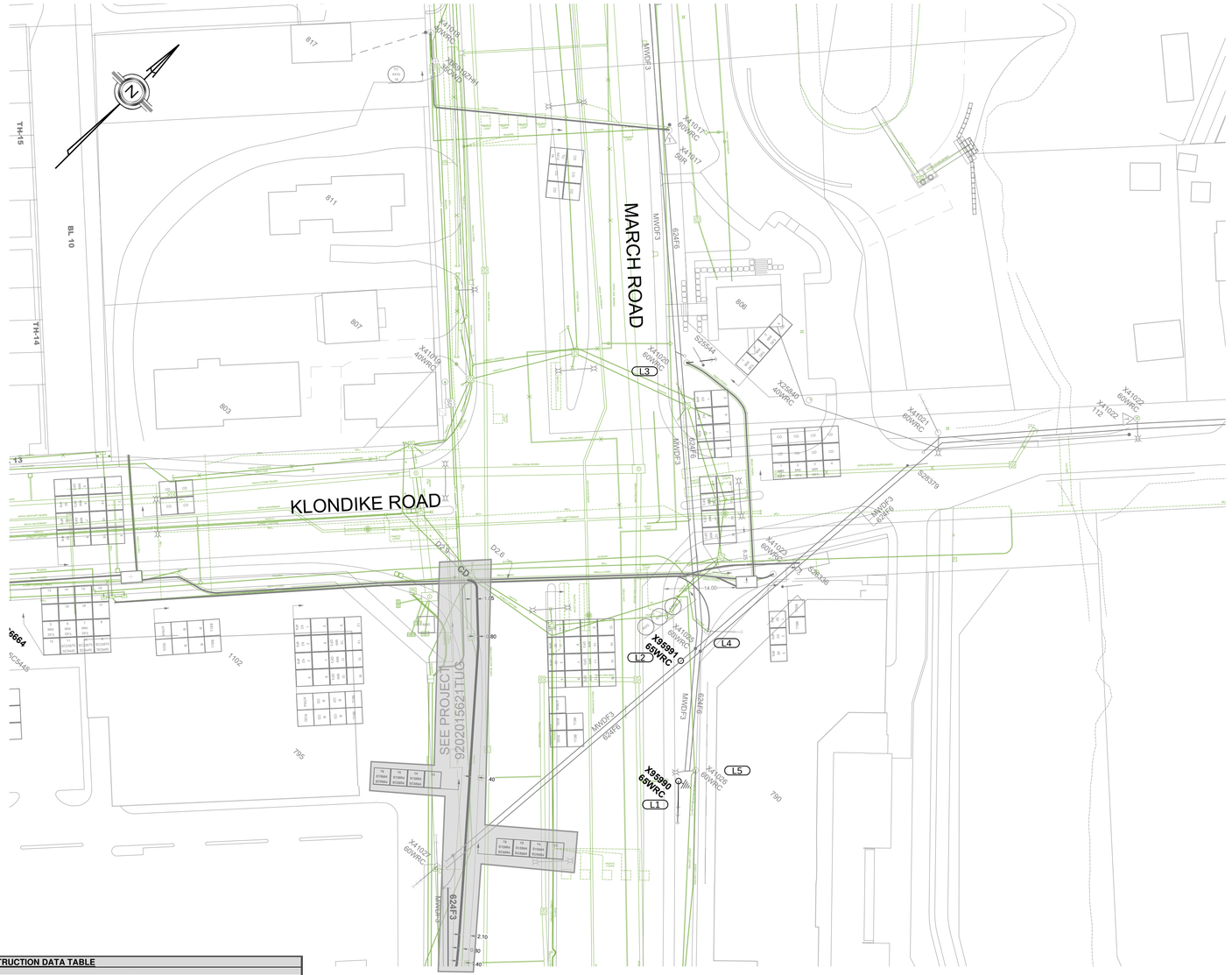


EXISITING 28kV SINGLE LINE DIAGRAM
N.T.S.

CONSTRUCTION DATA TABLE

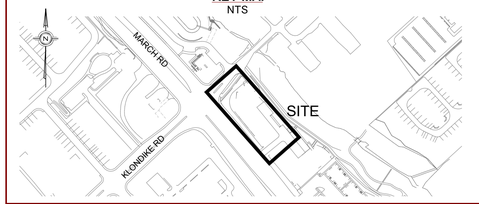
Work Location #	Span Length (in m)	Nomenclature ID#	Pole Length (in ft), Class	Pole Setting Depth (ft)	Pole Deflection	Anchor Distance(s) from Pole (m)	Standards	Instructions
L1	DE	**Proposed X95990**	65'	8.5ft	0°	5.5m 7.0m 8.5m	CIVIL • OGS0001 • OAS0100 • OPS0205	CIVIL • Pole Hole @ 8.5ft setting depth • Install 3x expansion anchors • Install ground rod for future temporary power to 788 March Rd
							ELECTRICAL • OFS1009 • OAS0001 • OAS0100	ELECTRICAL • Install one new 65' CL1 pole inline • Install 4x new down guys for anchoring • Transfer all existing primary overhead conductor to new pole location • Install new nomenclature tag
	23.0m							
L2		**Proposed X95991**	65'	8.5ft	0°	N/A	CIVIL • OPS0205	CIVIL • Pole Hole @ 8.5ft setting depth
							ELECTRICAL • OFS1011	ELECTRICAL • Install one new 65' CL1 pole inline • Transfer all existing primary overhead conductor to new pole location • Install new nomenclature tag
	57.0m							
L3		Existing X41020	60'		6°	5.0m 7.0m	CIVIL • OAS0100	CIVIL • Install 2x expansion anchors
							ELECTRICAL • OAS0001 • OAS0100 • OAS0003	ELECTRICAL • Install 2x down guy (top and bottom phase) to 2x new anchors for line deflection.
	span							
L4	NA	Removal X41025			0°		CIVIL • NA	CIVIL • Remove pole butt
							ELECTRICAL • NA	ELECTRICAL • Transfer all primary to new X95991 • Remove all existing anchoring
	span							
L5	NA	Removal X41026			0°		CIVIL • NA	CIVIL • Remove pole butt
							ELECTRICAL • NA	ELECTRICAL • Transfer all primary to new X95990 • Remove all existing anchoring

0 10 20 30 40 50
m

STANDARD DISTRIBUTION PROPOSAL LEGEND

- HYDRO OTTAWA POLE
- FOREIGN OWNED POLE
- JOINT USE POLE
- POLE ANCHOR
- SPAN GUY
- HANDHOLE
- CD CAPPED DUCT
- 2-WAY MANHOLE
- SWITCHING MANHOLE
- 4-WAY MANHOLE
- 3-WAY MANHOLE
- PMH SWITCHGEAR PAD
- TRANSFORMER / SWITCHGEAR PAD
- SD SPARE DUCT
- PRIMARY PEDESTAL PAD
- DIRECT BURIED DUCT
- CONCRETE ENCASED DUCT
- DIRECT BURIED CABLE
- DIRECT BURIED DUCTBANK
- CONCRETE ENCASED DUCTBANK
- BD BLOCKED DUCT
- TRAFFIC / STREETLIGHT HANDHOLE
- SECONDARY PEDESTAL PAD
- SPLICE PIT
- TO BE REMOVED
- TO BE ABANDONED
- DD DUMMY DUCT
- RSV RESERVED DUCT
- 1-PHASE PRIMARY CONDUCTOR
- 2-PHASE PRIMARY CONDUCTOR
- 3-PHASE PRIMARY/ SECONDARY CONDUCTOR
- UNDERGROUND CABLE
- 1-PHASE O/H SECONDARY CONDUCTOR
- CONNECTION POINT, CABLE RISER
- GROUND
- FULL SWITCHING ELBOW
- NON-OPERABLE ELBOW (600A)
- STRESS CONE
- POTHEAD
- PRIMARY METER ENCLOSURE
- SECONDARY METER BANK (# PREMISES)
- FAULT CIRCUIT INDICATOR
- SECONDARY PEDESTAL
- SECONDARY DISCONNECT ENCLOSURE
- STREETLIGHT
- AC GENERATOR
- DC GENERATOR
- CABLE SPLICE
- 1-PHASE POLE MOUNT TRANSFORMER OR 3-PHASE POWERPAK
- 3-PHASE POLE MOUNT TRANSFORMERS (BANKED)
- PADMOUNT TRANSFORMER
- STEP TRANSFORMER (RABBIT)
- KIOSK
- CAPACITOR
- VOLTAGE REGULATOR
- RC POLE MOUNTED RECLOSER
- REMOTELY OPERATED SWITCH (MOTORIZED, 2/3PHASE, GANG, CAN BREAK)
- NORMAL OPEN POINT
- FIXED FUSE
- SWITCHABLE FUSE (NON-GANG, NON LOAD B REAK)
- SOLID BLADE SWITCH (MANUAL, NON-GANG, NON LOAD BREAK)
- SOLID BLADE SWITCH (MANUAL, GANG OPERATED, LOAD BREAK)
- REMOTELY OPERATED SWITCH (MOTORIZED, SIMPLE, GANG, LOAD BREAK)
- LOCALLY OPERATED SWITCH (MOTORIZED, SIMPLE, GANG, LOAD BREAK)
- DOUBLE SOLID BLADE SWITCH (GANG, DOUBLE LOAD BREAK)
- MID-SPAN OPENER
- LINE CLAMP

KEY MAP
NTS



GENERAL NOTES

A. All construction shall be completed using approved Hydro Ottawa construction standards (latest edition) and/or details specified in the project drawing(s).
B. External workforces may obtain the latest edition of applicable Hydro Ottawa standards and/or design specifications at www.hydroottawa.com.
C. Prior to undertaking work within the safe limits of approach to Hydro Ottawa overhead plant (as defined in the Occupational Health and Safety Act), contact the designated Hydro Ottawa project manager or Hydro Ottawa Service Desk at 613-738-6400, Option 4.
D. Obtain utility locates prior to commencement of any excavation.
E. Where excavation within 1.5 metres of Hydro Ottawa underground plant, contact the designated Hydro Ottawa project manager or Hydro Ottawa Service Desk at 613-738-6400, Option 4.

PROJECT NOTES

I. Where existing grades are greater or less than 150mm of final grade, grade stakes indicating final grade shall be provided at, or along each installation as required by Hydro Ottawa.
II. As-Built drawing(s) shall be completed for this project. Each drawing issued for construction shall be marked "As-Built" with the appropriate Hydro Ottawa Construction Verification Program (CVP) sign-offs completed.
III. Note existing Hydro Ottawa easements and proposed requirements for easements in favour of Hydro Ottawa on project drawing(s).
IV. Primary conductors to be sagged as per ruling span noted below and attached Sag Chart or by using the applicable Hydro Ottawa Sag and Tension Table.
V. Neutral conductor to be tensioned for field spun secondary bus as per attached Sag Chart or by using the applicable Hydro Ottawa Sag and Tension Table.
VI. Types of anchors selected for this project are based on anchor holding capacity in the soil class noted below. Where soil class varies from specified, contact the Project Manager.

PROJECT DETAILS

SYSTEM INFORMATION (TO BE CONFIRMED WITH SYSTEM OFFICE)

AFFECTED CIRCUIT(S)	MWDF3 & 624F6
PRIMARY VOLTAGE(S)	28kV
SECONDARY VOLTAGE(S)	N/A

INFORMATION	
EXISTING POLE OWNER	HOL
PROPOSED POLE OWNER	HOL
RULING SPAN OF PROP. POLES	23.0m
ASSESSED CLASS OF SOIL	
SWITCH GEAR	N/A
TRANSFORMER	N/A
POWER FUSE	N/A
CURRENT LIMITING FUSE	N/A
ACCESS ROUTE	MARCH RD @ KLONDIKE RD

EXISTING CABLE / CONDUCTOR	
PRIMARY	556MCM OH AL
NEUTRAL	336MCM OH AL
SECONDARY	N/A

PROPOSED CABLE / CONDUCTOR	
PRIMARY	N/A
NEUTRAL	N/A
SECONDARY	N/A

DRAWING INDEX / REFERENCE

1.	Sheet 1 of 1	DESIGN, CDT, SLD, LEGEND
2.		
3.		
4.		
ASSOCIATED PROJECTS	☐ COM ☒ TOH ☒ TUG ☐ RES ☐ SUB ☐ ____	
REFERENCED PROJECTS	9202015621-TUG	

HYDRO OTTAWA LIMITED - FINAL RECORD OF INSPECTION & CVP CERTIFICATE

THIS IS TO CERTIFY THAT THE CONSTRUCTION WORK COMPLETED AND SPECIFIED ON THE ABOVE-MENTIONED PLANT IS CONSISTENT WITH THE APPROVED PLAN, STANDARD DESIGNS OR WORK INSTRUCTION AND THAT APPROVED EQUIPMENT HAS BEEN USED.

P.M. TO INITIAL WHEN APPLICABLE	TYPE OF INSPECTION REQ'D	DATE COMPLETED	VERIFIED BY	POSITION	SIGNATURE
1)	CIVIL PLANT				
2)	DISTRIBUTION/STATIONS PLANT				
3)					

REVISIONS

REV:	DATE:	CHANGE:	PREP	CHKD	APPD
REV:	DATE:	CHANGE:			
REV:	DATE:	CHANGE:			
REV:	DATE:	CHANGE:			
REV:	DATE:	CHANGE:			
REV:	DATE:	CHANGE:			

HydroOttawa

PREP: K. MCNAMARA / LG
CHKD: P. FISHER/ A. WELMERS
ASSETS: S. FREEMARK
APPD: M. WYNDHAM
DATE: 2024-07-08
SCALE: 1:500 @ ANSI D

TITLE

788 MARCH ROAD RENTAL DEVELOPMENT

NO: 9202014155-TOH
1 OF 1
REV: 0