

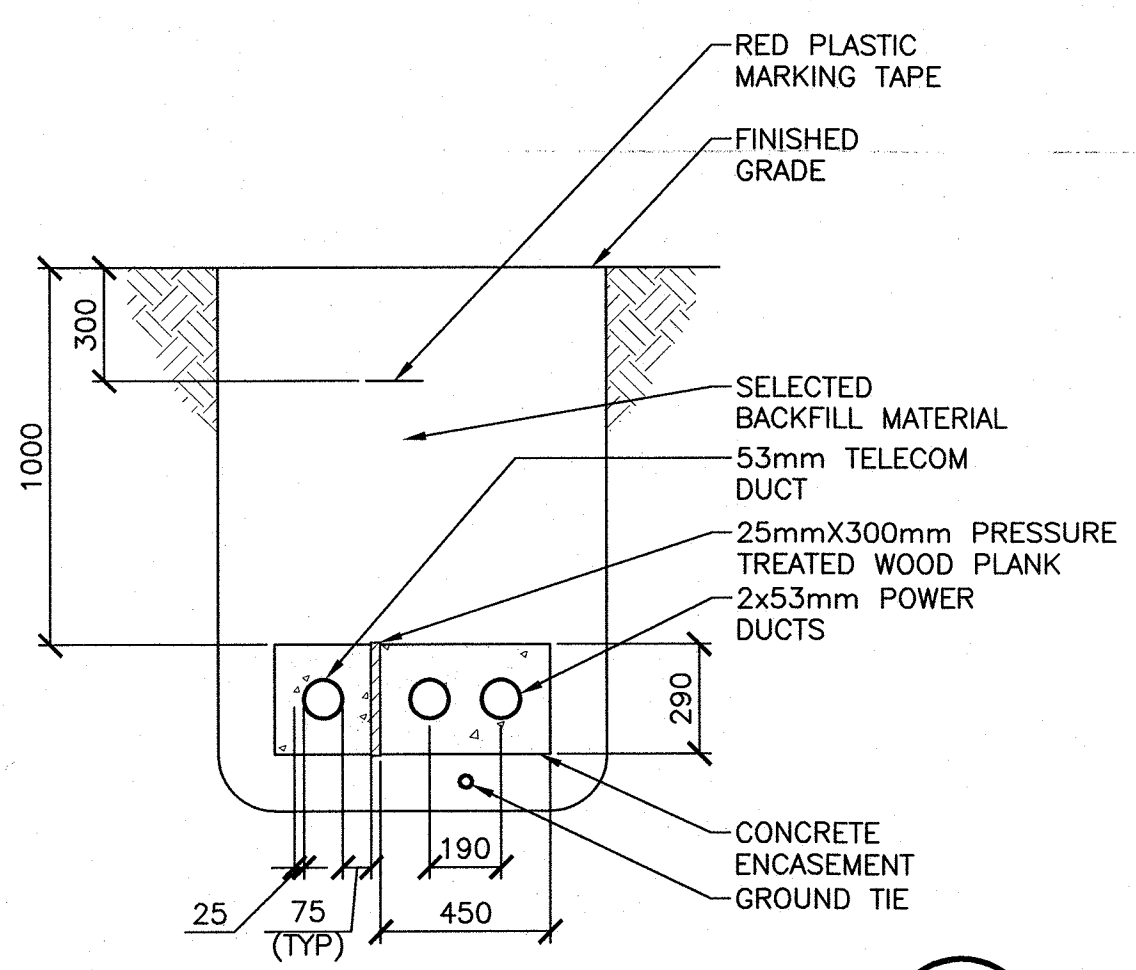
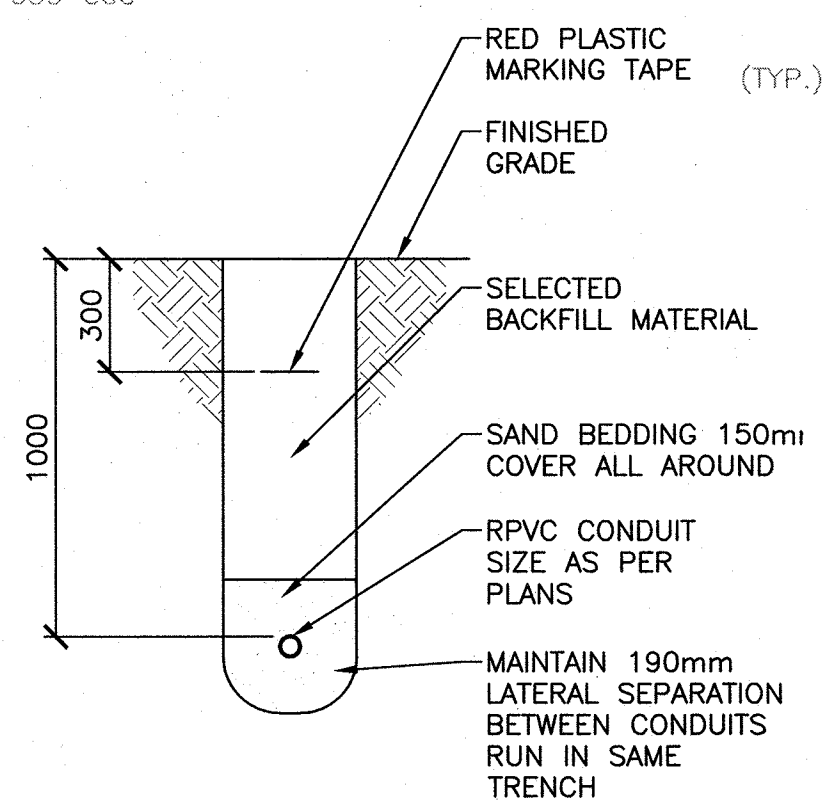
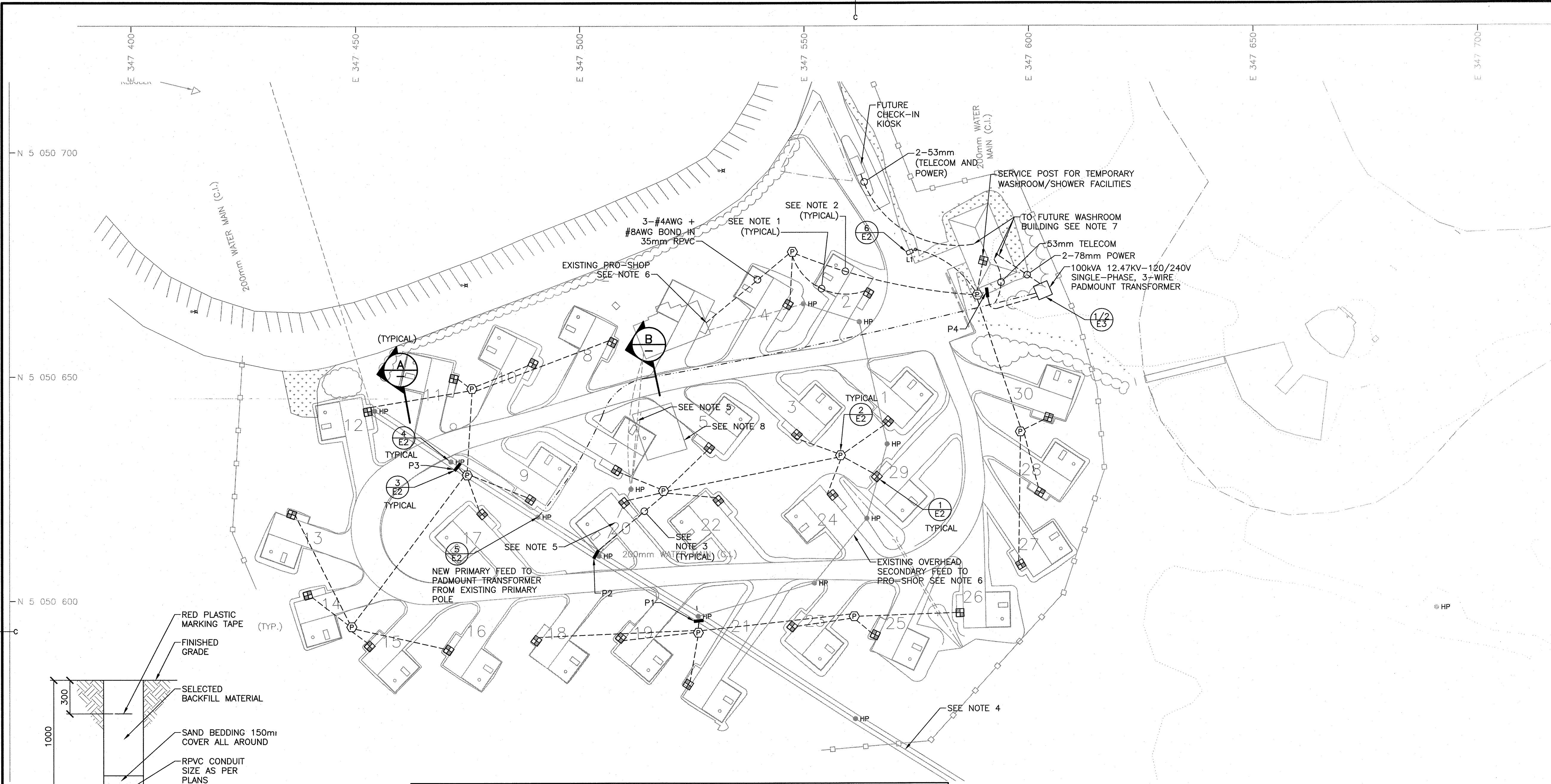
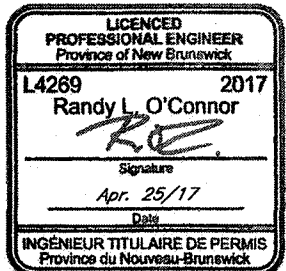
- LEGEND**
- IN-GRADE PULL BOX
  - CAMP SITE SERVICE POST
  - BRANCH CIRCUIT PANELBOARD
  - POLE MOUNTED AREA LIGHT
  - HP OVERHEAD ELECTRICAL POLE
  - UNDERGROUND LOW VOLTAGE CONDUIT
  - UNDERGROUND HIGH-VOLTAGE DUCTBANK

0	ISSUED FOR TENDER	APR 25 2017
revisions		date

project HEADQUARTERS & WOLFE  
LAKE CAMPGROUNDS  
FUNDRY NATIONAL PARK  
ALMA, NB  
ALBERT COUNTY, NB

**ELECTRICAL  
SITE PLAN**

designed	M. MELANSON	conçu
date	FEB 24/2017	
drawn	M. MELANSON	dessiné
date	FEB 24/2017	
approved		approuvé
date		
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet
	<b>R.086534.001</b>	
drawing no.		no. du dessin
	<b>E1</b>	



MINIMUM CONDUCTOR SIZING TABLE FOR 120V, 15A, BRANCH CIRCUITS			
BRANCH CIRCUIT LENGTH OF RUN	PHASE WIRE SIZE	NEUTRAL WIRE SIZE	BOND WIRE SIZE
0-24.8m	#12AWG	#12AWG	#12AWG
24.9-40.2m	#10AWG	#10AWG	#12AWG
40.3-63.8m	#8AWG	#8AWG	#10AWG
63.9-101.7m	#6AWG	#6AWG	#8AWG

MINIMUM CONDUCTOR SIZING TABLE FOR 120V, 20A, BRANCH CIRCUITS			
BRANCH CIRCUIT LENGTH OF RUN	PHASE WIRE SIZE	NEUTRAL WIRE SIZE	BOND WIRE SIZE
0-18.3m	#12AWG	#12AWG	#12AWG
10.4-30.8m	#10AWG	#10AWG	#12AWG
30.9-49.9m	#8AWG	#8AWG	#10AWG
50m-77.9m	#6AWG	#6AWG	#8AWG

MINIMUM CONDUCTOR SIZING TABLE FOR 120V, 30A, BRANCH CIRCUITS			
BRANCH CIRCUIT LENGTH OF RUN	PHASE WIRE SIZE	NEUTRAL WIRE SIZE	BOND WIRE SIZE
0-18.6m	#10AWG	#10AWG	#12AWG
18.7-31.7m	#8AWG	#8AWG	#10AWG
31.8-51.3m	#6AWG	#6AWG	#8AWG
51.4-81.4m	#4AWG	#4AWG	#8AWG

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	SOURCE	COLOUR TEMP	DRIVER	VOLTAGE	NOMINAL WATTAGE
L1	POLE MOUNTED AREA LIGHT MOUNTED ON 6.1m HIGH SQUARE STRAIGHT STEEL POLE, BRONZE FINISH, 125mm ARM, IES TYPE III DISTRIBUTION, INTEGRAL PHOTOCCELL.	6100lm (NOMINAL) LED ENGINE	4000K	LED DRIVER	120V	60W

- NOTES:**
- ALL SERVICE POSTS ARE TO BE FED WITH A 30A, 2-WIRE, 120V CIRCUIT. INSTALL ALL WIRING FROM PULL BOXES TO SERVICE POSTS IN 35mm RPVC CONDUIT, ALL WIRING INCLUDING NEUTRAL AND BOND ARE TO BE HOME RUN TO BRANCH CIRCUIT PANEL. REFER TO BRANCH CIRCUIT DISTANCE TABLE FOR APPLICABLE WIRE SIZE. WHERE WIRE SIZE EXCEEDS BREAKER LUG CAPABILITIES, PROVIDE CSA APPROVED WIRE REDUCING PINS AT BREAKER LOCATION, NO SPLICES IN PULL BOXES. DO NOT SHARE NEUTRALS.
  - CONDUIT BETWEEN PULL BOXES IS TO BE 2-53mm RPVC, ONE CONDUIT IS TO BE C/W PULL CORD AND LEFT AS SPARE.
  - GROUP WIRING INTO QUANTITY OF CONDUITS AS REQUIRED TO ENTER PANELBOARD FROM LAST PULL BOX. ALLOW FOR ONE SPARE CONDUIT C/W PULL CORD.
  - EXISTING 12.47kV OVERHEAD PRIMARY LINES TO REMAIN. OVERHEAD LINES ARE PROPERTY OF PARKS CANADA.
  - OVERHEAD AND UNDERGROUND TELECOMMUNICATIONS TO EXISTING PRO SHOP IS TO REMAIN.
  - THE PRO-SHOP'S EXISTING ELECTRICAL SERVICES IS CURRENTLY FED AT 60A, 120/240V VIA OVERHEAD CONDUCTORS, OVERHEAD CONDUCTORS AND ASSOCIATED POLES ARE TO BE REMOVED AND THE PRO-SHOP IS TO BE RE-FED VIA NEW UNDERGROUND FEEDERS AND CONDUIT. PROVIDE PVC EXPANSION FITTING WHERE CONDUIT EXITS GROUND.
  - STUB AND CAP CONDUITS FOR AT FUTURE SERVICE BUILDING LOCATION. PROVIDE PULL CORDS IN ALL CONDUITS.
  - REMOVE EXISTING UNDERGROUND POWER FEED TO CART STORAGE SHED.
  - REMOVE REDUNDANT SECONDARY ELECTRICAL EQUIPMENT INSTALLED ON EXISTING PRIMARY POLES SUCH AS METERS AND DISCONNECT SWITCHES. TRANSFORMERS TO REMAIN TO FEED NEW SITE DISTRIBUTION.
  - CONDUIT ROUTING IS SCHEMATIC IN NATURE, GROUPING OF CONDUITS IN COMMON TRENCH IS PERMITTED WHERE PRACTICAL. COORDINATE ROUTING OF CONDUITS WITH OTHER SERVICES.