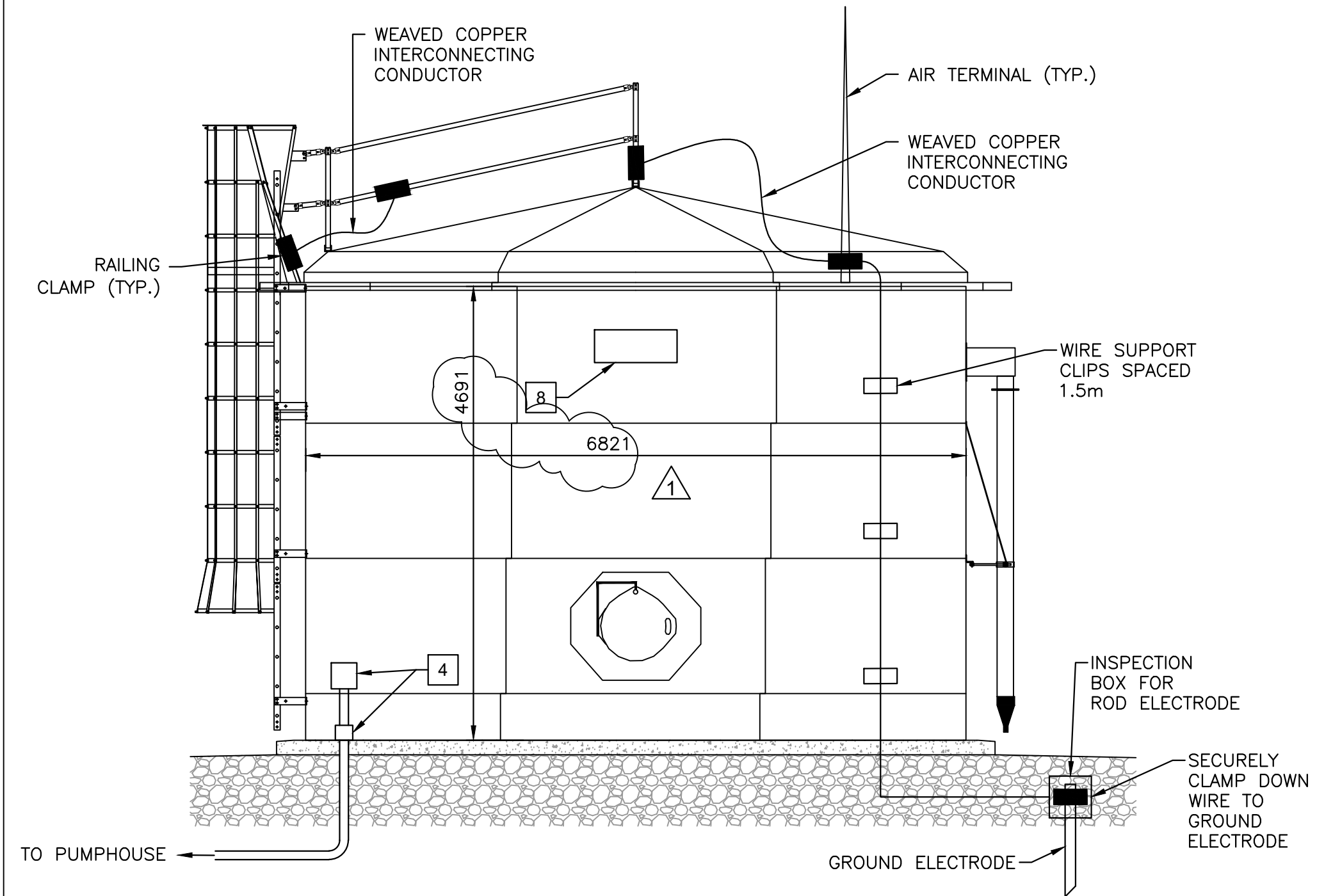


WATER RESERVOIR – PLAN

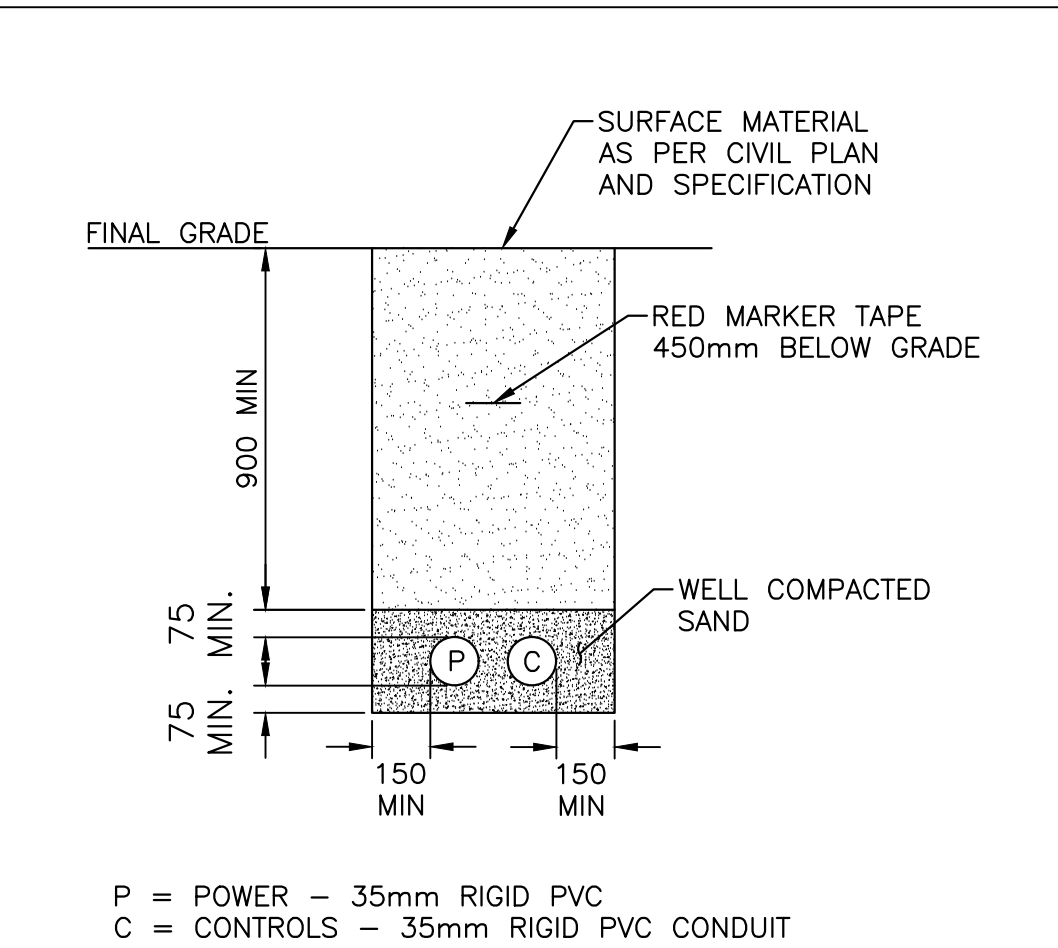


WATER RESERVOIR – ELEVATION

A  
E01

WATER RESERVOIR LIGHTNING PROTECTION

SCALE : N.T.S.



B  
E01

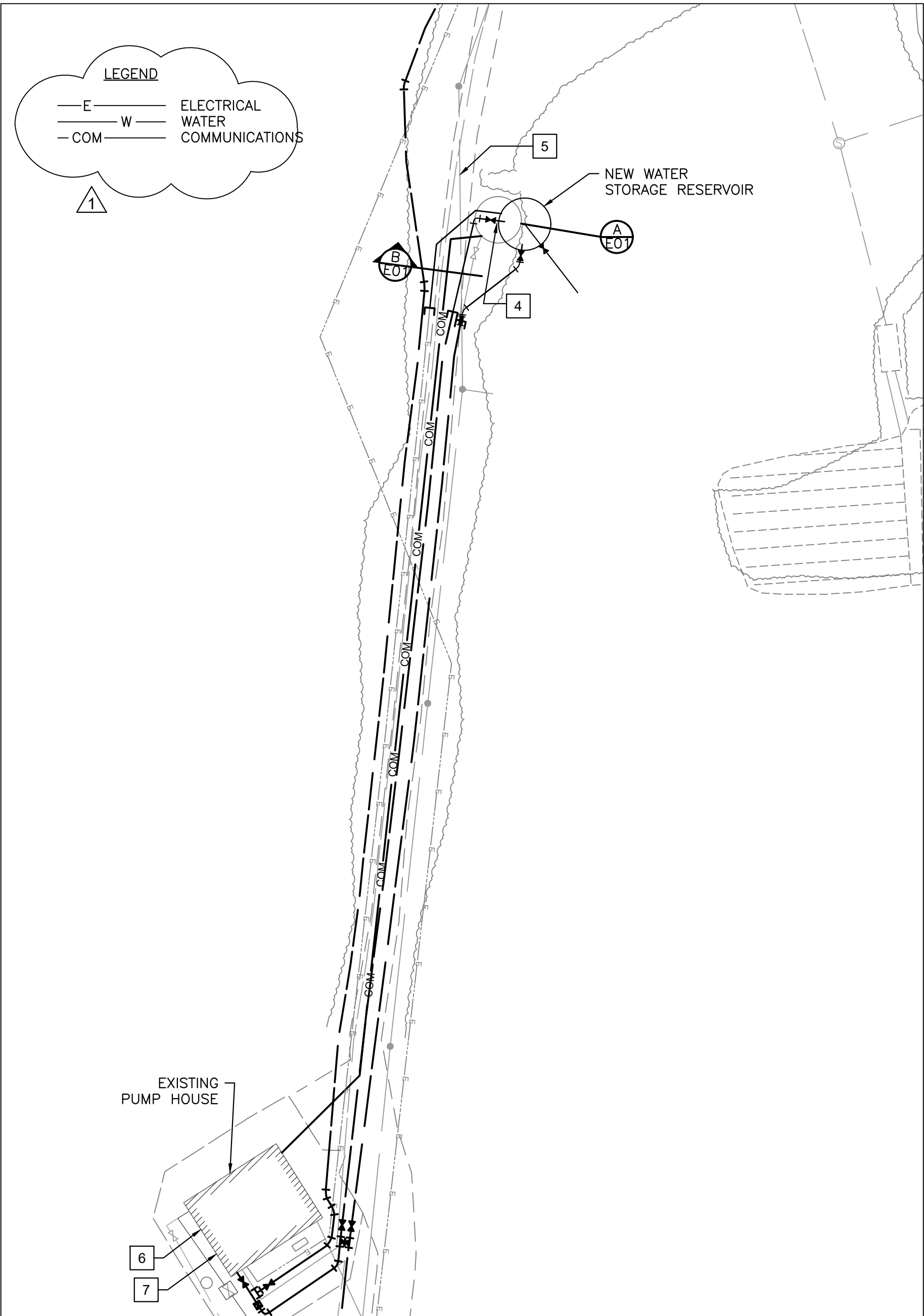
ELECTRICAL CONDUIT  
INSTALLATION DETAIL

SCALE : N.T.S.

KEYNOTES:

NEW INSTALLATION:

- 1 LOCATE GROUNDING ELECTRODES AT LEAST 1m AWAY FROM STRUCTURE FOOTING.
- 2 AIR TERMINALS MUST EXTEND A MINIMUM OF 50mm BEYOND THE HIGHEST POINT OF THE STRUCTURE.
- 3 GROUND SAFETY RAILING, PLATFORM, AND LADDER TO LIGHTNING PROTECTION SYSTEM.
- 4 TERMINATE CONDUIT AT WATER RESERVOIR WITH WEATHER PROOF PVC BOX. PROVIDE EXPANSION JOINT BELOW BOX. LEAVE MINIMUM 1m OF SLACK SHIELDED TWISTED PAIR CABLE, NEATLY COILED INSIDE BOX.
- 5 COORDINATE WITH NEWFOUNDLAND POWER TO PROVIDE POWER LINE COVER UPS DURING CONSTRUCTION OF WATER RESERVOIR. OBTAIN PROPER PERMITS FOR CONDUCTING WORK NEAR POWER LINES.
- 6 PROVIDE AND INSTALL ONE (1) 15A/1P BREAKER IN EXISTING 120/208V PANEL FOR THE NEW LEVEL SENSOR EQUIPMENT. COORDINATE WITH MECHANICAL. PROVIDE AND INSTALL 2#12 AWG RW90 IN 21mm EMT FROM PANEL TO LEVEL SENSOR CONTROLLER. PROVIDE AND INSTALL 2#14 AWG RWU90 SHIELDED IN 35mm PVC CONDUIT FROM LEVEL SENSOR CONTROL TO TANK FLOAT.
- 7 PROVIDE AND INSTALL ONE (1) 15A/1P BREAKER IN EXISTING 120/208V PANEL FOR TANK LIGHT. PROVIDE AND INSTALL 2#12 AWG RWU90 IN 35mm RIGID PVC FROM PANEL TO TANK LIGHT. PROVIDE POST MOUNTED NEMA 4X SWITCH ADJACENT THE TANK.
- 8 PROVIDE AND INSTALL ONE (1) EXTERIOR WALL PACK LED LUMINAIRE ABOVE THE DOOR (LITHONIA #WST-LED-P2-27K-VW-120-PE-DBLXD WITH INTEGRAL PHOTO SENSOR.)

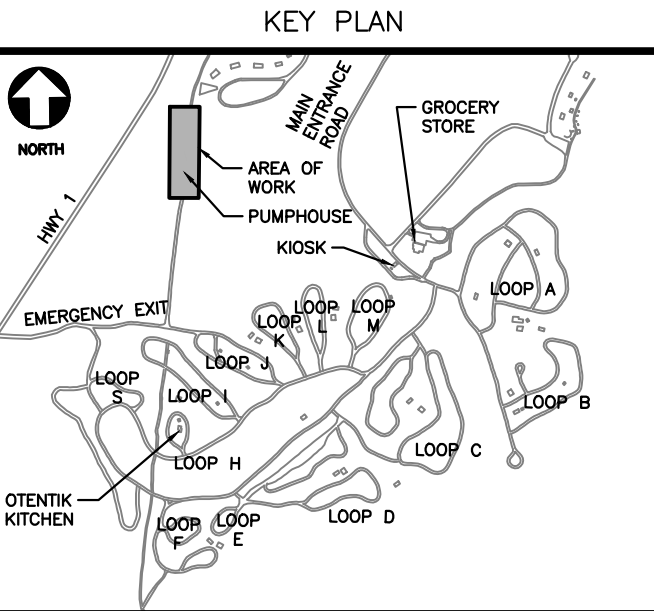


ELECTRICAL FOR WATER  
RESERVOIR – AREA OF WORK

SCALE : 1:500  
0m 10m 20m 30m 40m 50m

GENERAL NOTES:

1. COORDINATE EXACT ROUTING OF ALL UNDERGROUND SERVICES AND EQUIPMENT LOCATIONS WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
2. MINIMIZE WIDTH OF CLEARING WHEN PROVIDING CORRIDOR FOR TRENCHING. MAXIMUM CORRIDOR WIDTH SHALL BE 3m.
3. ADJUST PATH OR LOCATION OF NEW INFRASTRUCTURE IN THE FIELD TO AVOID IMPACT TO TREES. ANY TREE CLEARING SHALL BE REVIEWED AND APPROVED BY DEPARTMENTAL REPRESENTATIVE.
4. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CAN/CSA-B72 BY A CERTIFIED INSTALLER.
5. COORDINATE WITH NEWFOUNDLAND POWER TO PROVIDE POWER LINE COVER UPS DURING CONSTRUCTION OF WATER RESERVOIR. OBTAIN PROPER PERMITS FOR CONDUCTING WORK NEAR POWER LINES.



0.1	ISSUED WITH ADDENDUM # 2	07/06/2021
0.0	ISSUED FOR TENDER	05/31/2021
revisions		date

project  
TERRA NOVA NATIONAL PARK  
UTILITY SYSTEMS  
RECAPITALIZATION  
PHASE 3

TERRA NOVA NATIONAL PARK  
drawing  
dessin

ELECTRICAL FOR  
NEWMAN SOUND  
WATER RESERVOIR

designed	F. ST-ONGE	conçu
date	2019-05-03	
drawn	K. LOUGHERY	dessiné
date	2019-05-03	
approved	D. DOW	approuvé
date	2019-05-24	
Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1716	no. du projet
drawing no.	E01	no. du dessin