



PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
STANTEC CONSULTING LTD.  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEG J0291  
which is valid for the year 2013.

O	ISSUED FOR TENDER	MAY 29 2013
B	ISSUED FOR 95% DESIGN REVIEW	OCT 07 2011
A	ISSUED FOR 70% DESIGN REVIEW	MAR 31 2011
revisions		date
project		project

# ST. ANTHONY AIRPORT PUMPHOUSE UPGRADES

NEWFOUNDLAND-LABRADOR

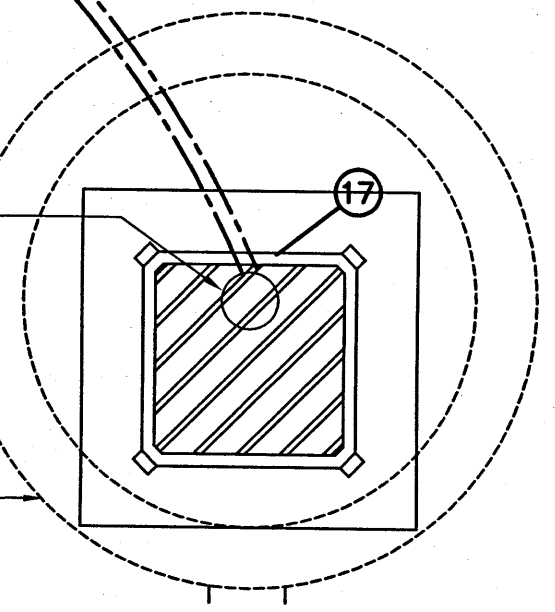
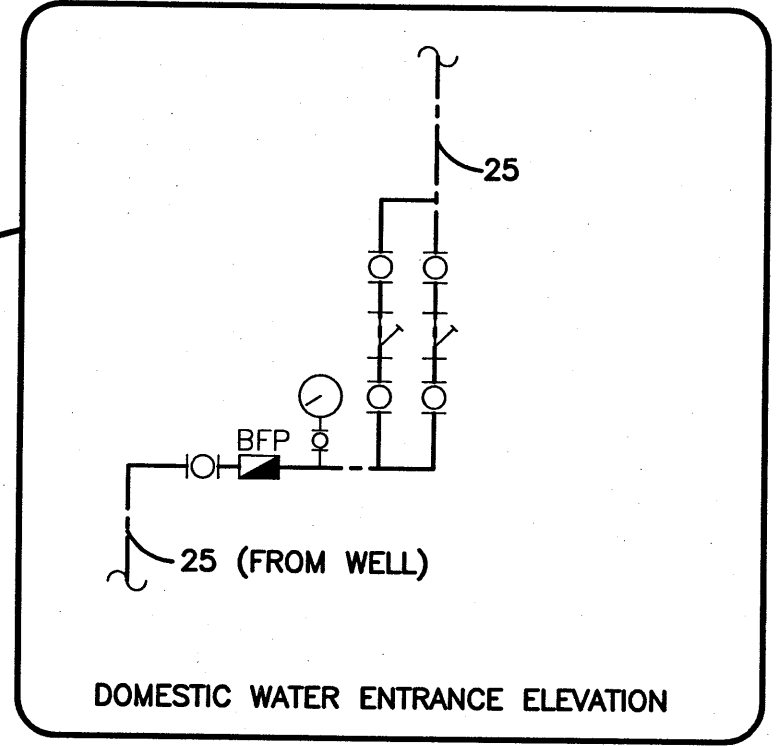
drawing dessin

## PUMPHOUSE NEW WORK FLOOR PLAN

designed	J. COLOMBE	conçu
date	2010.01.20	
drawn	J.E.L.	dessiné
date	2011.09.04	
approved	B. DAWE	approuvé
date	2011.01.20	
Tender		Sourmission
PWGSC Project Manager	Administrateur de projets TPSC	
project number		no. du projet
	R.045122.001	
drawing no.		no. du dessin
	H3	

### NOTES:

- NEW LEVEL SWITCH LS-1
- NEW LEVEL SWITCH LS-2
- NEW 25mm COLD WATER TO DOMESTIC WATER RESERVOIR #1. CONNECT AT EXISTING WATER CONNECTION LOCATIONS.
- NEW 25mm COLD WATER TO DOMESTIC WATER RESERVOIR #2. CONNECT AT EXISTING WATER CONNECTION LOCATION.
- NEW 25mm COLD WATER TO FIRE WATER CELL. CONNECT AT EXISTING WATER CONNECTION LOCATION.
- CONNECT NEW 25mm TO INLET END OF FILTER ASSEMBLY WITH NEW UNION FITTING.
- CONNECT NEW 25mm TO OUTLET END OF FILTER ASSEMBLY WITH NEW UNION FITTING.
- NEW 25mm COLD WATER DOWN ALONG WALL. CONNECT TWO EXISTING 6mm NYLON TUBING CHLORINE INJECTORS TO NEW COLD WATER PIPE WITH NEW SHUTOFF VALVES. (TWO SUCH)
- EXISTING 6mm COPPER CHLORINE CONNECTION TO REMAIN.
- THREE EXISTING 25mm PVC CONDUITS CONTAINING CHLORINE INJECTION TUBING TO REMAIN.
- NEW 25mm COLD WATER DOWN.
- NEW 25mm COLD WATER ALONG FLOOR. SUPPORT ON EXISTING STANDS.
- NEW 25mm COLD WATER FROM EXISTING WELL. CONNECT TO EXISTING AT APPROXIMATELY 600mm A.F.F. SEE DETAIL.
- NEW 75mm VALVE, CHECK, MAINTENANCE COUPLING AND GAUGE. SIZES TO MATCH EXISTING. SEE SCHEMATIC FOR FURTHER DETAILS.
- NEW 100mm VALVE AND CHECK. SIZE TO MATCH EXISTING. SEE SCHEMATIC FOR FURTHER DETAILS.
- NEW 25mm VALVE. SIZE TO MATCH EXISTING.
- NEW DEEP WELL PUMP AND ASSOCIATED PIPING TO BE INSTALLED FROM BOTTOM OF EXISTING WELL TO PUMPHOUSE AS SHOWN.
- 12mm COLD WATER TO FIRE PUMP CONTROLLER. INSTALL NEW WELDED IRON TO COPPER CONNECTION AT PIPE.
- EXISTING VALVES TO REMAIN.



INSTALL NEW PIPE SUPPORT WHERE REQUIRED SO THAT ALL PIPES ARE LOCATED DIRECTLY ON SUPPORT (NO STACKING OF PIPES) AND AT 2.0 METRES O.C. SEE DETAIL.

SUPPLY AND INSTALL ALL REQUIRED PIPE, SPOOL PIECES, SUPPORTS, BOLTS AND GASKETS REQUIRED TO INSTALL NEW VALVES, CHECKS, FITTINGS.

NEW SOLENOID VALVE  
EXISTING WELL. MODIFY WELL HEAD FOR NEW MANHOLE. SEE DETAIL.

NEW MANHOLE. SEE DETAIL.

INSTALL NEW PIPE SUPPORT WHERE REQUIRED SO THAT ALL PIPES ARE LOCATED DIRECTLY ON SUPPORT (NO STACKING OF PIPES) AND AT 2.0 METRES O.C. SEE DETAIL.

SUPPLY AND INSTALL NEW OIL FIRED HOT AIR FURNACE AS SPECIFIED. RECONNECT ALL FUEL LINES, CHIMNEY DUCTWORK, ELECTRICAL AND CONTROLS. EXTEND AND MODIFY CONNECTIONS AS REQUIRED FOR INSTALLATION.

NEW 12mm COPPER LINE TO FIRE PUMP CONTROLLER. LINE TO BE INSTALLED WITHOUT VALVES. COPPER LINE IS ROUTED FROM EXISTING PIPE CONNECTION AT NOTE TAG 18

NEW FIRE PUMP CONTROLLER (SEE SPECIFICATIONS)

BATTERIES

FIRE PROTECTION PUMP

DOMESTIC WATER PUMPS

## PUMPHOUSE NEW WORK PLAN

SCALE: 1:20

