

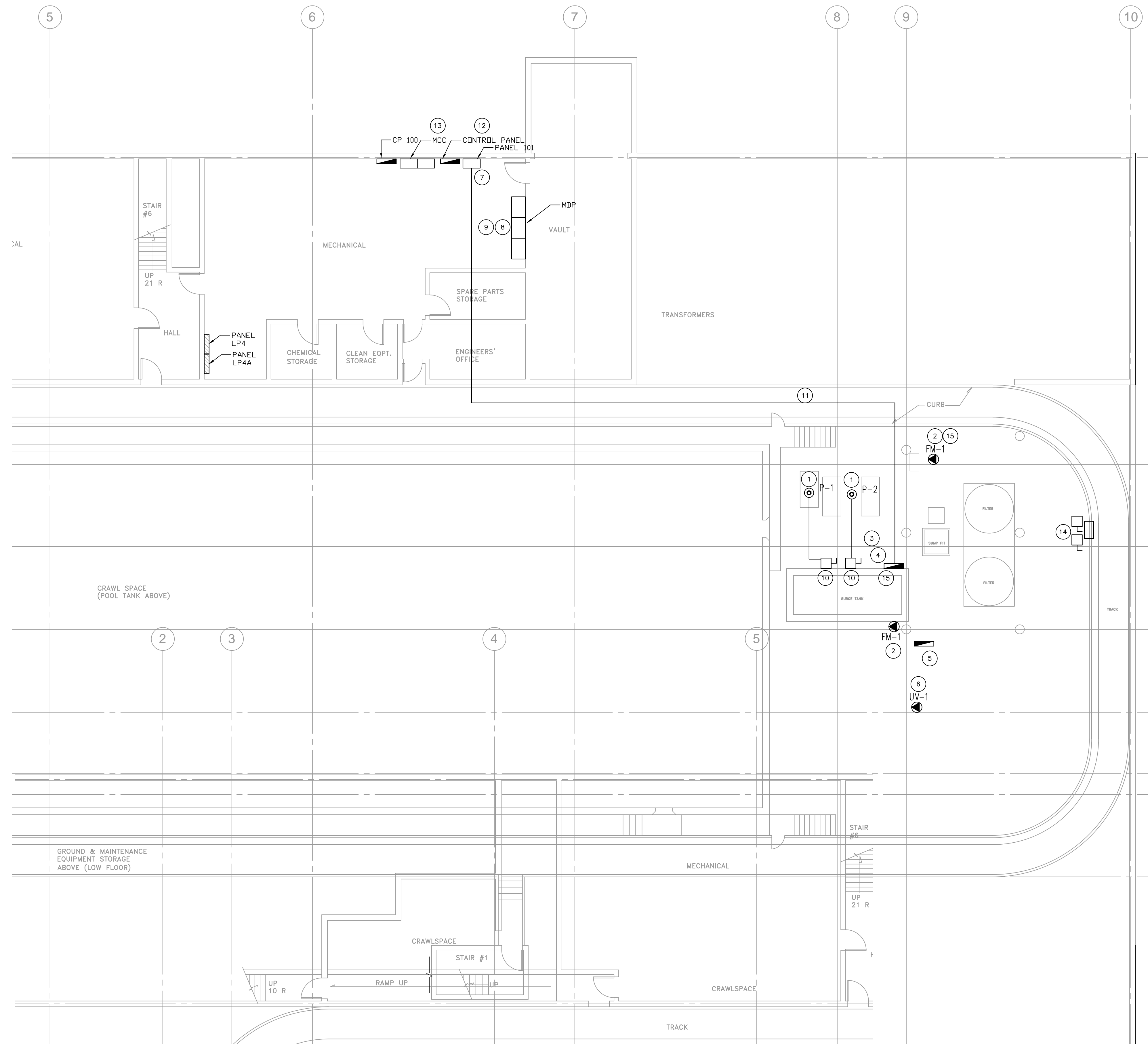
FILE NAME:

DATE: 2013.03.22

SHEET TITLE:

PROJECT No: 486-2011

ADDRESS: 999 SARGENT AVE



**BASEMENT FLOOR PLAN - RENOVATION PLAN**  
SCALE: 1/8"=1'-0"

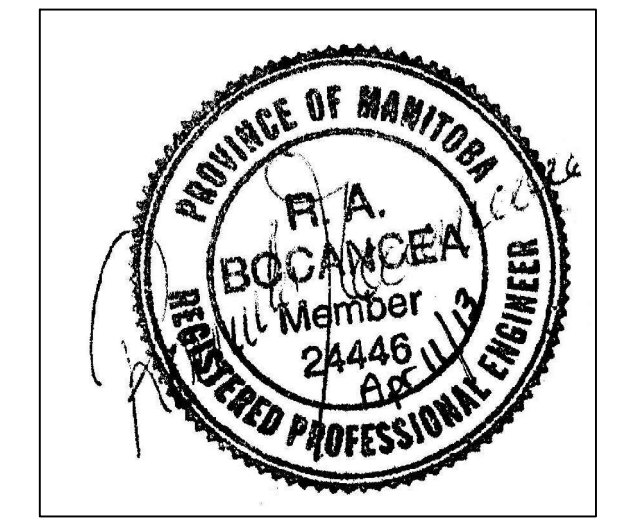
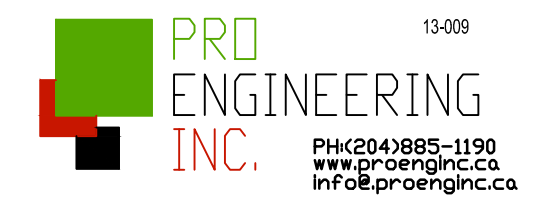
**KEY NOTES:**

- ① WIRE AND CONNECT NEW PUMP P-1 FROM NEW PUMP CONTROL PANEL WITH A 3c#3 TECK CABLE. PROVIDE SIMILAR CONNECTION FOR P-2.
- ② WIRE AND CONNECT NEW FLOW METER AND REMOTE DISPLAY. CONNECT TO A DEDICATED CIRCUIT IN PANEL LP4A. REMOVE EXISTING REDUNDANT EQUIPMENT TO MAKE SPACE FOR NEW DISPLAY.
- ③ ORGANIZE, RE-ROUTE AND REPAIR ALL EXISTING CONDUIT AND CABLING IN THIS AREA. INVESTIGATE AND REMOVE ALL REDUNDANT EQUIPMENT AND WIRING IN THIS AREA.
- ④ WIRE AND CONNECT NEW PUMP CONTROL PANEL WITH 3#3 RW90 IN EMT FROM PANEL 101 TO A NEW 150 AMP, 3 POLE BREAKER C/W ALL MOUNTING HARDWARE IN PANEL 101. CONTROL PANEL IS TO INCLUDE A SOFT STARTER: ALTISTART 22 ATS22CS6U WITH VENTILATED, GASKETED ENCLOSURE. PROVIDE A MOTOR RATED CONTACTOR FOR EACH MOTOR IN THE ENCLOSURE. PROVIDE A SECURE INTERLOCK SO THAT EACH PUMP CAN BE SWITCHED BACK AND FORTH FROM A OPERABLE CONTROL ON THE PANEL EXTERIOR. INCLUDE RED AND GREEN LED PILOT LIGHTS INDICATING WHICH PUMP IS OPERATING. NOTE BOTH MAY NOT OPERATE AT THE SAME TIME. SEE PANEL ELEVATION FOR DETAILS. PROVIDE A DEDICATED CIRCUIT FROM PANEL LP4A FOR ALL CONTROL CIRCUITRY SEPARATE FROM THE MOTOR CIRCUIT POWER.
- ⑤ WIRE AND CONNECT THE UV CONTROL PANEL TO A NEW 15 AMP 3POLE BREAKER IN PANEL 101 WITH 3#10 RW90 IN EMT. GROUND CONTROL PANEL TO MAIN BUILDING GROUND WITH A #6 AWG CU CABLE.
- ⑥ WIRE AND CONNECT UV UNIT TO CONTROL PANEL WITH A 3c#10 TECK CABLE. RUN AND CONNECT ALL SUPPLIED CABLING INCLUDING CONNECTIONS TO REMOTE LAMP ASSEMBLY.
- ⑦ PROVIDE MODIFICATIONS, INCLUDING NEW HARDWARE, BREAKERS, FILLER PLATES, ETC. TO EXISTING PANEL 101. REFER TO THE SINGLE LINE DIAGRAM FOR FURTHER DETAILS.
- ⑧ REMOVE AND REPLACE THE EXISTING 700A TRIP WITH A NEW 800A UNIT IN THE BREAKER CURRENTLY FEEDING PANEL 101.
- ⑨ PROVIDE A SEPARATE PRICE TO REPLACE THE EXISTING 800A FRAME UNIT AND TRIP WITH A NEW UNIT WITH FULLY ADJUSTABLE SETTINGS. REFER TO DWG 3.1
- ⑩ PROVIDE LOCKABLE SERVICE DISCONNECTS FOR P-1 AND P-2 ON THE LOAD SIDE OF THE MOTOR CONTROL PANEL.
- ⑪ PROVIDE UNISTRUT SUPPORT FOR NEW CONDUIT RUN TO THE NEW PUMP CONTROL PANEL FROM PANEL 101. RUN AT A HIGH LEVEL, UTILIZING SPACE ON THE EXISTING RACK IF POSSIBLE.
- ⑫ DISCONNECT EXISTING CONTROL CABLING FROM THE CONTROL PANEL AND MCC. CONTROL OF PUMPS IS TO BE ONLY FROM THE NEW PUMP CONTROL PANEL.
- ⑬ REMOVE WIRING FROM EXISTING MOTOR STARTER COMPARTMENTS AND MARK AS SPARE. REFER TO DWG E3.1
- ⑭ ENSURE EXISTING EQUIPMENT TO REMAIN IS CLEAN, SAFE AND RELABELED PROPERLY AFTER REDUNDANT WIRING IS REMOVED.
- ⑮ WIRE AND CONNECT LOSS OF FLOW ALARM CONTACT TO THE REMOTE PUMP PANEL. THE LOW FLOW ALARM SHALL INDICATE AN ALARM AT THE PUMP CONTROL PANEL AND ALSO PROVIDE A CONTACT TO SIGNAL THE CITY OF WINNIPEG CENTRAL CONTROL.

**GENERAL NOTES:**

1. EXISTING EQUIPMENT TO REMAIN NOT SHOWN FOR CLARITY. ENSURE ANY EQUIPMENT TO REMAIN HAS CABLING RESUPPORTED OR RELOCATED AS NECESSARY.
2. LOAD ON PANEL 101 TO BE CONSIDERED LOADED TO MAXIMUM AFTER ALL RENOVATION WORK IS COMPLETED.
3. CONTRACTOR IS TO ADVISE THE LEAD TIME REQUIRED TO REPLACE THE 700AMP TRIP OR COMPLETE BREAKER REPLACEMENT WITHIN 10 DAYS OF CONTRACT AWARD.

NOTES:



No.	REVISION/DESCRIPTION	BY	DATE
2	ISSUED FOR CONSTRUCTION		KO 13.04.11
1	ISSUED FOR CONSTRUCTION		KO 13.03.22

DRAWN	CHECKED	DESIGNED	APPROVED
KO	KO	KO	RB
DATE	2013.03.22		
	USER APPROVAL		

THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
4TH FLOOR 185 KING STREET

PROJECT  
WATER TREATMENT  
PROCESS UPGRADES  
BID OPPORTUNITY # 237-2013  
999 SARGENT AVE

SHEET TITLE  
BASEMENT  
CONSTRUCTION PLAN  
ELECTRICAL

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2012-140	E2

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1