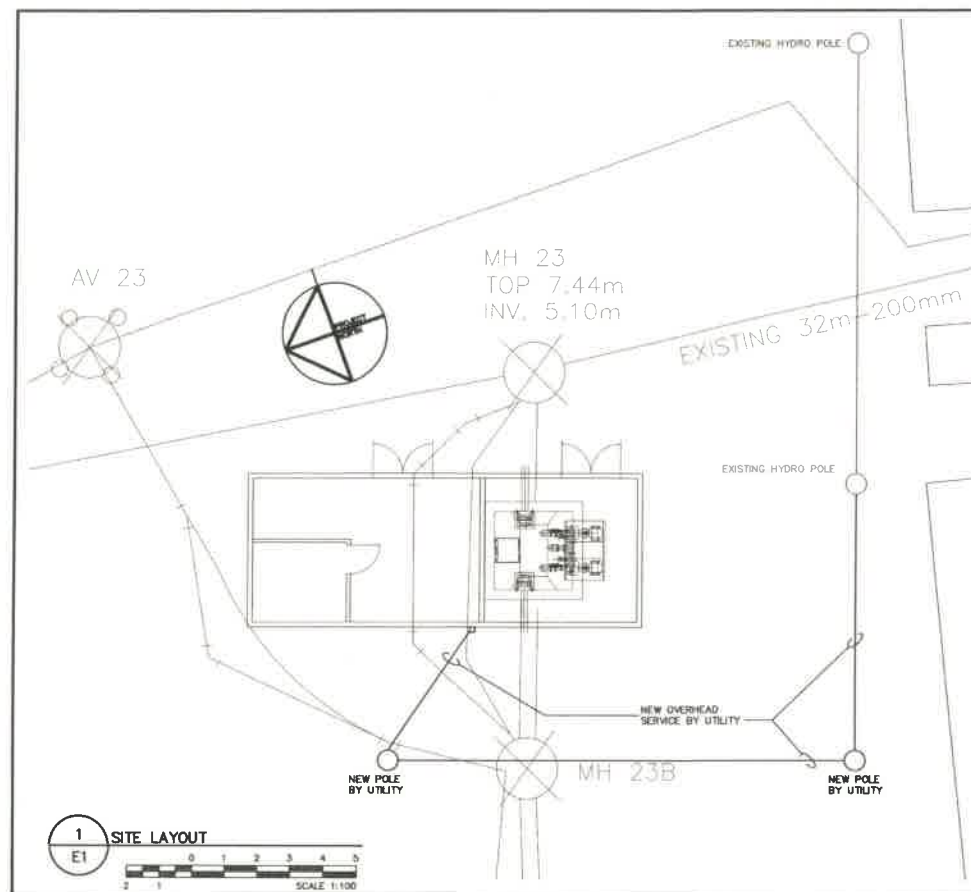
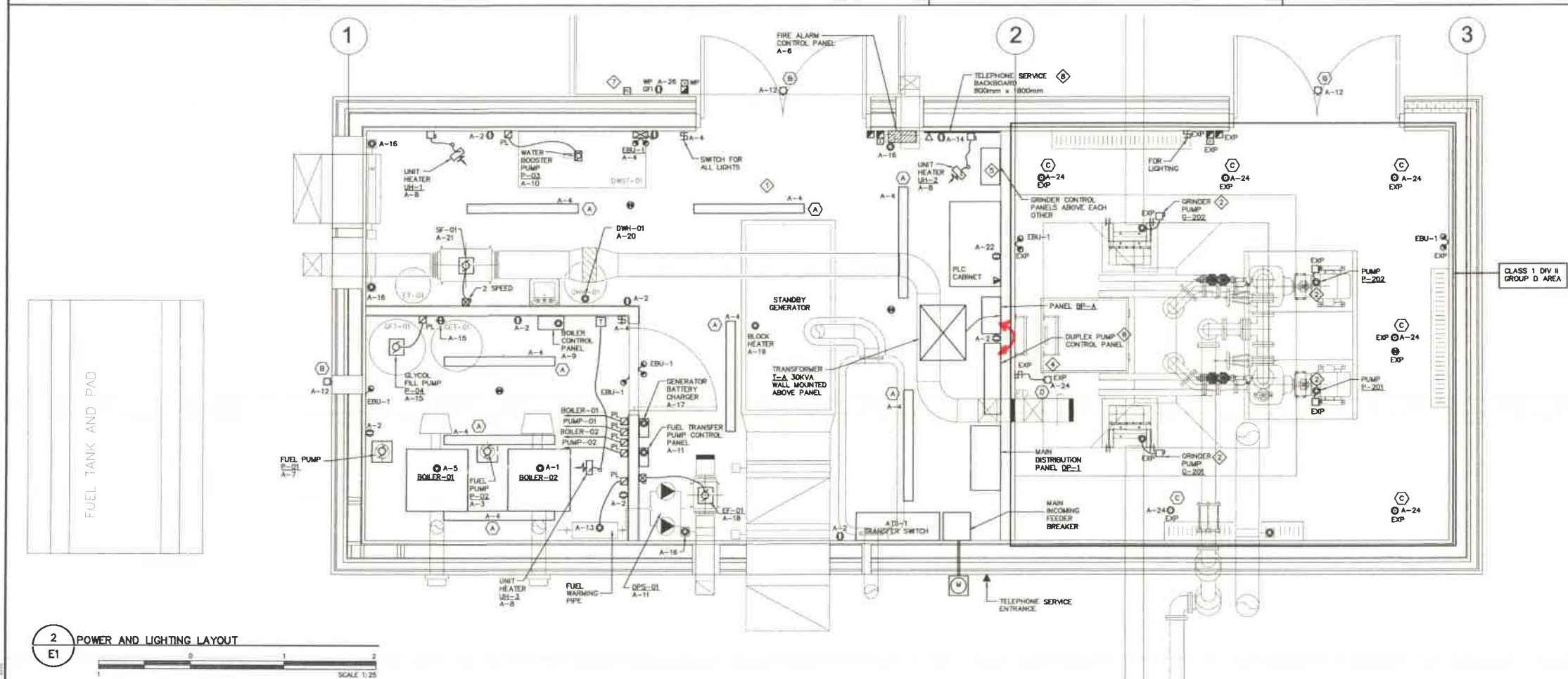




FIXTURE SCHEDULE		
SYMBOL	TYPE	DESCRIPTION
	A	FLUORESCENT FIXTURE -2X32W, T8 FLUORESCENT -HOUSING: COLD ROLLED STEEL, WITH ENAMEL -120V -CHAIN SUSPENDED COMPLETE WITH WIRE GUARD FROM EITHER SIDE
	B	WALL MOUNTED FLUORESCENT DOWNLIGHT -1X 70W, HIGH PRESSURE SODIUM -120V -MOUNTING: WALL MOUNTED -HOUSING: WEATHER RESISTANT DIE CAST ALUMINUM -REFLECTOR: SPICULAR ALZAK ALUMINUM -LENS: BOROSILICATE GLASS -C/W VANDAL SHIELD
	C	FLUORESCENT FIXTURE -1X 23W, COMPACT FLUORESCENT -MOUNTING: ROD SUSPEND-CEILING -HOUSING: CAST FERROUS ALLOY, COATED -REFLECTOR: ALUMINUM -LENS: CLEAR HEAT RESISTANT GLOBE -C/W WIRE GUARD CLASS I, DIV II GROUP D -C/W SELF BALLASTED 23W COMPACT FLUORESCENT
	D	FLUORESCENT FIXTURE -1X 23W, COMPACT FLUORESCENT -MOUNTING: WALL -HOUSING: CAST FERROUS ALLOY, COATED -REFLECTOR: ALUMINUM -LENS: CLEAR HEAT RESISTANT GLOBE -C/W WIRE GUARD CLASS I, DIV II SUITABLE -TO BE MOUNTED INSIDE WETWELL. REFER TO WET WELL DETAILS FOR FINAL MOUNTING LOCATION

- NOTE:
- FINAL POSITION OF ALL LIGHT FIXTURES IN WET WELL AREA AND EQUIPMENT AREA TO SUIT FINAL PIPING AND DUCTWORK LAYOUT.
 - PROVIDE EPOXY COATED UNISTRUT SUPPORT FRAMES FOR ALL EXPLOSION PROOF DISCONNECTS IN WET WELL AREA.
 - ALL ELECTRICAL CONNECTIONS TO LIFT PUMPS AND GRINDERS TO BE COMPLETED WITH EXPLOSION PROOF FLEXIBLE CONDUIT. COORDINATE ALL CONNECTIONS WITH SUPPLIER.
 - WALL MOUNTED TYPE D FIXTURE IN WET WELL.
 - GRINDER MOTOR CONTROL PANEL SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
 - LIFT PUMP MOTOR CONTROL PANEL SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
 - EXTERIOR LIGHTING PHOTOCELL CONTROL WIRE THROUGH LIGHTING CONTACTOR.
 - 25mmC TO TELEPHONE SERVICE ENTRANCE.

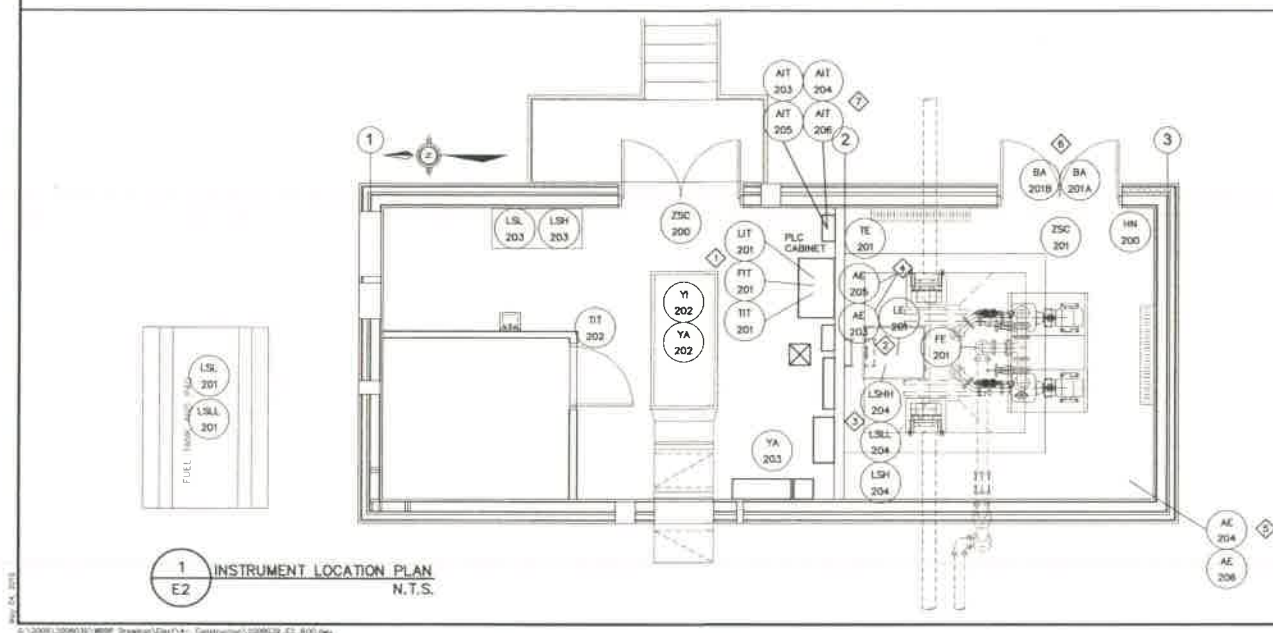
LEGEND	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	DISTRIBUTION PANEL
	BREAKER PANEL
	DISCONNECT
	MOTOR CONNECTION
	CIRCUIT BREAKER
	GROUND
	TRANSFORMER
	UTILITY METER
	UNIT HEATER
	DIRECT CONNECTION
	MANUAL STARTER COMPLETE WITH LED PILOT LIGHT
	COMBINATION MAGNETIC STARTER
	TRANSFORMER
	FIRE ALARM PULL STATION
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM BELL C/W STROBE
	LIGHT SWITCH
	PHOTOCELL
	COMBINATION DATA/COMMUNICATIONS OUTLET.
	WALL MOUNTED TELEPHONE OUTLET PROVIDE 118mm BOX C/W SINGLE GANG PLASTER RING (RAISED 13mm) AND 18mm EMT C. (C/W INSULATED BUSHINGS) TO ACCESSIBLE CEILING SPACE.
	EMERGENCY BATTERY UNIT C/W HEADS
	EMERGENCY REMOTE HEADS
	FIXTURE TYPE 'A'
EXP	EXPLOSION PROOF DEVICE
WP	WEATHER PROOF

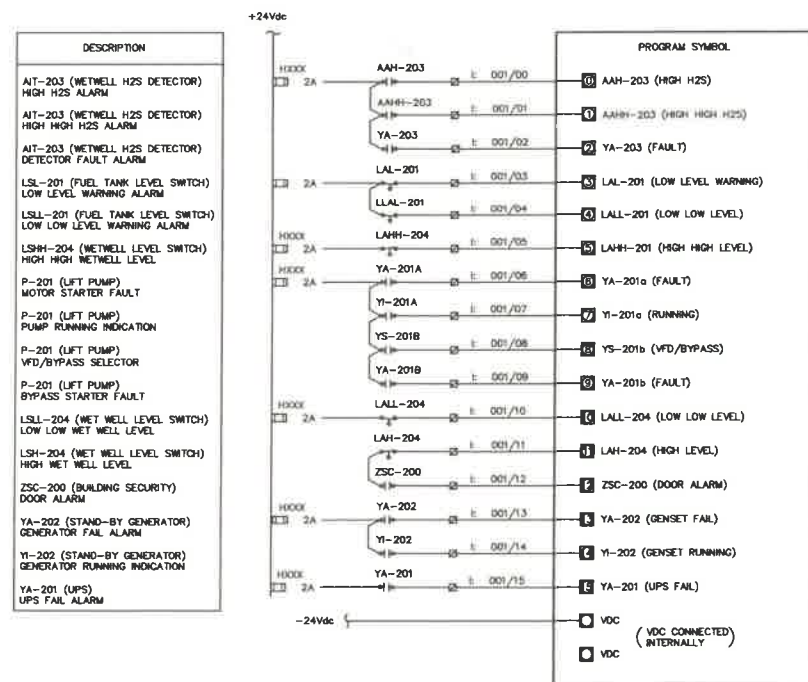


FUNCTIONAL IDENTIFICATION					DESCRIPTION
FIRST LETTER (4)		SUCCEEDING - LETTERS (3)			I/O TYPES
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER	TYPICAL ASSOCIATED COACS
A ANALYSIS		ALARM			DI
B BURNER, COMBUSTION			CLOSE-STOP DECREASE		DO
C CONDUCTIVITY, pH (ACIDITY)		CLOSE	CONTROL OR CONTROLLER		DI/DO
D DENSITY			OPEN-START-INCREASE		DO
E VOLTAGE		SENSOR (PRIMARY ELEMENT)			DI
F FLOW RATE	RATIO (FRACTION)			FAIL	DI
G GAS		GLASS VIEWING DEVICE			DI
H HAND				H-HIGH-(ALARM) HI-HIGH-(SHUTDOWN)	DI
I CURRENT (ELECTRICAL)		INDICATE			DI/DO
J POWER	SCAN				DO/DO
K TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION		DO/DO
L LEVEL		LIGHT		L-LOW-(ALARM) LL-LOW-(SHUTDOWN)	DI
M MOTOR	MOMENTARY	ON OR OPERATE		MIDDLE, INTERMEDIATE	DI
N MOISTURE					DO
O UNCLASSIFIED		OPEN ORIFICE, RESTRICTION POINT, TEST CONNECTION		OVERLOAD	DO
P PRESSURE, VACUUM			PNEUMATIC		
Q QUANTITY	INTEGRATE, TOTALIZE		INTEGRATE OR TOTALIZE		DI/DO
R RADIATION		RECORD			AI
S SPEED, FREQUENCY, SOLENOID	SAFETY		SWITCH OR SAFETY		DI/DO
T TEMPERATURE			TRANSMIT		AI
TO TORQUE					
U MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION	DI
V VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER		
W WEIGHT, FORCE		WELL			
X ON/OFF	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	DI/DO
Y EVENT, STATE, PRESENCE	Y AXIS		RELAY, ACTUATOR, UNCLASSIFIED DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT		
Z POSITION, DIMENSION	Z AXIS				

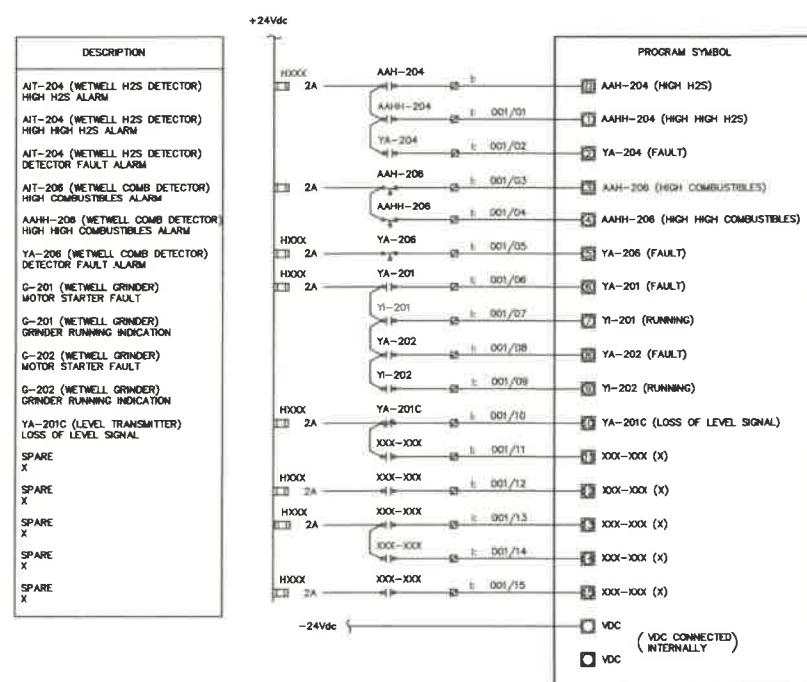
TYPICAL INSTRUMENT IDENTIFICATION		INSTRUMENT OPERATING FUNCTIONS	
NOTE: IN ADDITION TO THE REQUIREMENTS DETAILED BELOW, REFER TO SCADA POINT NAMING CONVENTIONS WHEN INSTRUMENT INTERFACES TO SCADA. FIELD TAG IDENTIFICATION POSITION 1 2 3 4 5 6 7 8 FUNCTIONAL IDENTIFICATION CODE PROCESS IDENTIFIER IF REQUIRED a) FUNCTIONAL IDENTIFICATION CODE - (UP TO 4 CHARACTERS) * - REFER TO DRAWING STD FOR LISTING * NOTE THAT SCADA POINTS CAN ONLY HAVE 3 CHARACTERS b) PROCESS IDENTIFIER - (3 NUMERALS AND 1 CHARACTER) - REFER TO DRAWING STD FOR PROCESS IDENTIFIER NUMBERING CONVENTION - CHARACTER SUFFIX IN POSITION 8 DIFFERENTIATES SIMILAR DEVICES WITHIN A LOOP PROVIDED THAT THEY ARE NOT WIRED INTO SCADA - REFER TO SCADA POINT NAMING CONVENTION.		SCHEMATIC IDENTIFICATION OUTPUT OPERATING FUNCTION (OPTIONAL) FUNCTIONAL IDENTIFICATION CODE PROCESS IDENTIFIER INPUT PANEL LOCATION (OPTIONAL) ANALYTICAL FUNCTIONS RES O₂ RESIDUAL CHLORINE SO₂ SULFUR DIOXIDE COMB COMBUSTIBLE GAS H₂S HYDROGEN SULFIDE PH PH DO DISSOLVED OXYGEN O₂ OXYGEN SWITCHING FUNCTIONS HA HAND-AUTO SELECTION HGA HAND-OFF-AUTO SELECTION JOA JOG-OFF-AUTO SELECTION S/S START-STOP L/L LEAD-LAG SELECTION F/S FAST-SLOW SELECTION OCA OPEN-CLOSE-AUTO SELECTION OSC OPEN-STOP-AUTO SELECTION SEL SELECTOR SWITCH O/O ON-OFF SWITCH M/A MANUAL-AUTO SELECTION L/R LOCAL-REMOTE SELECTION ESD EMERGENCY SHUTDOWN ACK ACKNOWLEDGE (ALARM) FOR FORWARD-OFF-REVERSE LOR LOWER-OFF-REVERSE OTHER FUNCTIONS D/P DIFFERENTIAL PRESSURE DP CURRENT TO PRESSURE IBO INBOARD BEARING OBO OUTBOARD BEARING VB VIBRATION	
SCADA POINT NAMING CONVENTION NOTE: ALL DEVICES INTERFACED WITH SCADA MUST FOLLOW THE SCADA POINT NAMING CONVENTION SCADA POINT NAMING CONVENTION POSITION 1 2 3 4 5 6 7 8 9 10 W - WATER RTU LOCATION - REMOTE SITE OR PLANT ABBREVIATION (3 CHARACTERS) 3 CHARACTER PROCESS IDENTIFIER (AS DETAILED RIGHT) 3 CHARACTER FUNCTIONAL IDENTIFIER SCHEMATIC IDENTIFICATION SCADA FUNCTIONAL IDENTIFICATION PROCESS IDENTIFICATION			

INSTRUMENT AND FUNCTION SYMBOLS		PRIMARY ELEMENT SYMBOLS	
XXXX XXXX	FIELD MOUNTED INSTRUMENT	OFFICE PLATE	CORROUS MASS FLOWMETER
XXXX XXXX	INSTRUMENT WITH TWO SERVICE OR FUNCTION	VENTURI OR FLOW TUBE	FLOAT LEVEL ELEMENT
XXXX XXXX	LOCAL PANEL-MOUNTED INSTRUMENT ACCESSIBLE	WEIR	DISPLACEMENT LEVEL ELEMENT
XXXX XXXX	INSTRUMENT MOUNTED BEHIND LOCAL CONTROL PANEL, NOT READILY ACCESSIBLE	FT F1	BUBBLER LEVEL TUBE
XXXX XXXX	INSTRUMENT MOUNTED ON MAIN PANEL ACCESSIBLE	DIAPHRAGM SEAL	ULTRASONIC/MICROWAVE LEVEL ELEMENT
XXXX XXXX	INSTRUMENT MOUNTED BEHIND MAIN PANEL NOT READILY ACCESSIBLE	VORTEX FLOW SENSOR	RADIO FREQUENCY LEVEL ELEMENT
XXXX XXXX	FIELD MOUNT ANNUNCIATOR POINT (OPTIONAL ARROW TO INDICATE ROTATING BEACON)	IN-LINE CAPACITANCE FLOW ELEMENT	LE LS
XXXX XXXX	MAIN PANEL MOUNT ANNUNCIATOR POINT	MAGNETIC FLOWMETER	LS LS
XXXX XXXX	LOCAL PANEL MOUNT ANNUNCIATOR POINT	SONIC FLOWMETER (DOPPLER OR OR TRANSIT TIME)	LS LS
SCADA XXXX XXXX	SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM) INPUT, OUTPUT OR FUNCTION	POSITIVE DISPLACEMENT METER	LS LS
SCADA XXXX XXXX	SCADA INPUT, OUTPUT OR FUNCTION, ACCESSIBLE	THERMAL MASS FLOW ELEMENT	LS LS
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY ANALOG INFORMATION, EG. SDC (SINGLE LOOP DIGITAL CONTROLLER)	PILOT TUBE	TERMINAL SENSING RTD STRIP
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY ANALOG INFORMATION, ACCESSIBLE	PROPELLER OR TURBINE METER	
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY DIGITAL INFORMATION, EG. PLC (PROGRAMMABLE LOGIC CONTROLLER)	INSTRUMENT SIGNAL SYMBOLS	
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY DIGITAL INFORMATION, ACCESSIBLE	INSTRUMENT SUPPLY PROCESS TAPS	MISCELLANEOUS SYMBOLS
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY DIGITAL INFORMATION, ACCESSIBLE	PNEUMATIC SIGNAL	
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY DIGITAL INFORMATION, ACCESSIBLE	ELECTRIC SIGNAL	INTERLOCK - SEE CONTROL STRATEGY DESCRIPTION
XXXX XXXX	SPECIAL PURPOSE DIGITAL DEVICE FOR PROCESSING MAINLY DIGITAL INFORMATION, ACCESSIBLE	CAPILLARY TUBE OR FILLED SYSTEM	
XXXX XXXX	COMPUTER - INTERNAL SYSTEM FUNCTION (COMPUTATION/SIGNAL CONDITIONING)	ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)	RESET FOR LATCH-TYPE OPERATOR
XXXX XXXX	COMPUTER - INTERNAL SYSTEM FUNCTION NORMALLY ACCESSIBLE TO OPERATOR	ELECTROMAGNETIC OR SONIC SIGNAL (UNGUIDED)	RESET FOR LATCH-TYPE OPERATOR
		SOFTWARE OR DATA LINK	GROUND
		MECHANICAL LINK	INSTRUMENT LOOP SHIELD GROUND
		HYDRAULIC	BOND
LINE DESIGNATIONS		GENERAL NOTES	
ES	ELECTRICAL POWER SUPPLY 120VAC 50/60HZ (UNLESS OTHERWISE NOTED)	1. REFER TO DRAWING 1001-01 FOR EQUIPMENT AND PIPE COMMODITY DESIGNATIONS.	
SA	SERVICE AIR SUPPLY		
IA	INSTRUMENT QUALITY AIR SUPPLY		
C2	WATER SUPPLY C1, C2, C3, ETC.		

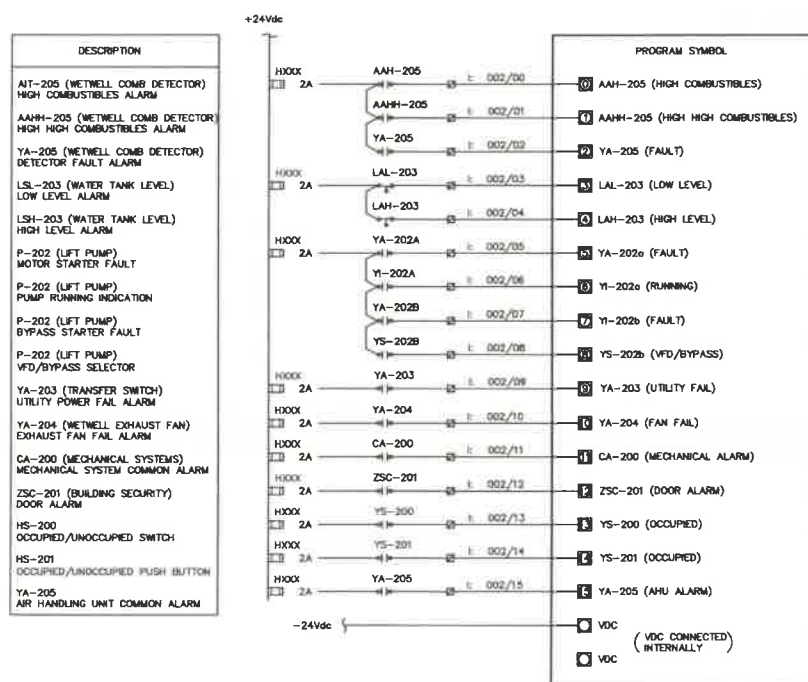




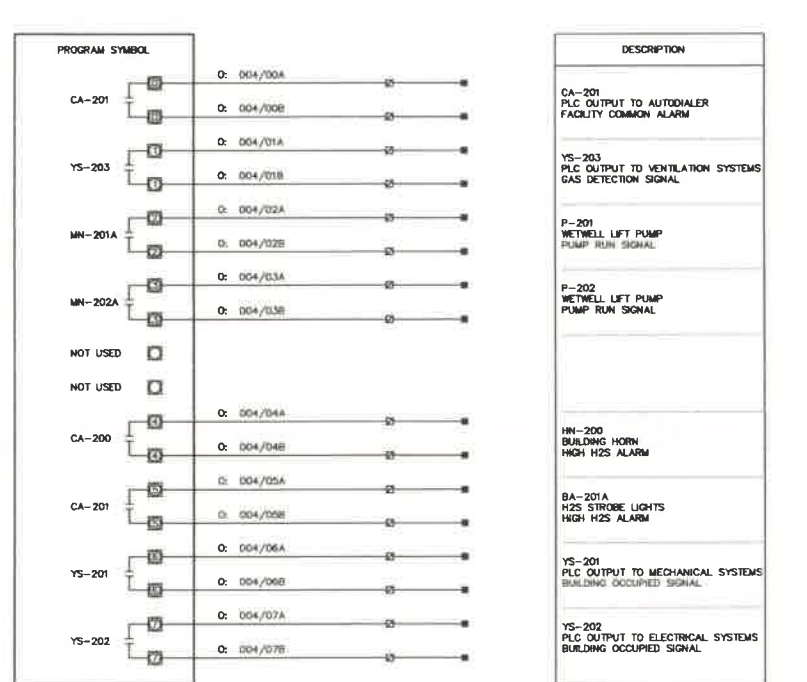
1 PLC DISCRETE INPUT MODULE WIRING DIAGRAM
E3 N.T.S.



3 PLC DISCRETE INPUT MODULE WIRING DIAGRAM
E3 N.T.S.



2 PLC DISCRETE INPUT MODULE WIRING DIAGRAM
E3 N.T.S.



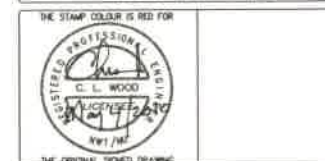
4 PLC DISCRETE OUTPUT MODULE WIRING DIAGRAM
E3 N.T.S.

AS BUILT
31-03-2011

Ottawa :
3740 Richmond Road, Suite 100, K2H 5B9
T:(613) 596-8454 F:(613) 596-3346
www.WEBPengineering.com

Gothenburg :
430 de l'hôpital bld, suite 210, J6Y 1T7
T:(819) 778-2448 F:(819) 778-5031
Consulting Engineers

1	ISSUED FOR CONSTRUCTION	05/04/10	WEBP
0	ISSUED FOR TENDER	06/19/09	WEBP C.W.
No.	DESCRIPTION	DATE	BY
REVISIONS			



Trow Associates Inc.
154 Colonnade Road South
Ottawa, Ont. K2E 7J5
Tel:(613)225-9940
Fax:(613)225-7337

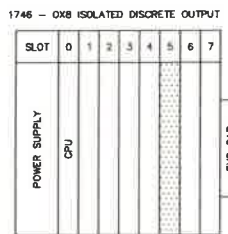
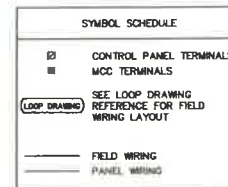
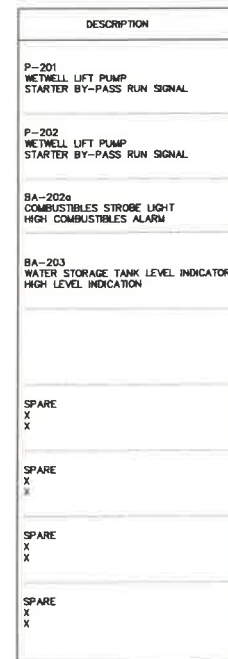
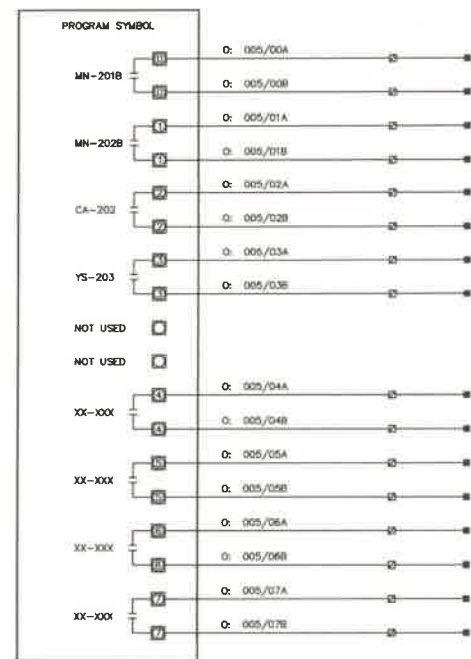
CITY OF IQUALUIT

PROJECT LIFT STATION No. 2
MODIFICATIONS

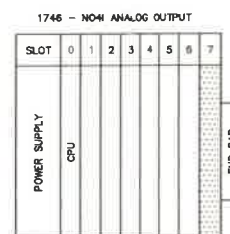
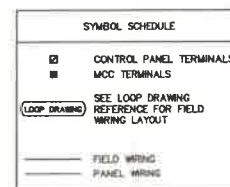
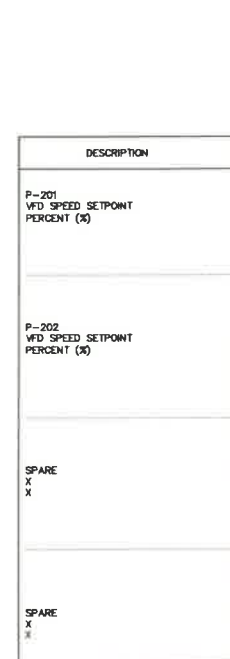
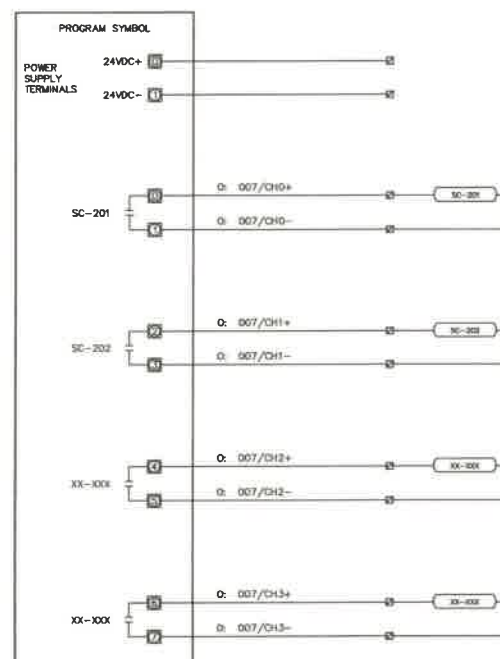
TITLE ELECTRICAL
PLC I/O SCHEMATICS

design by	C.M.	project no.	OTC000019365A
drawn by	F.S.	drawing no.	
checked by	C.M.		
date	06/11/2009		
scale	NOT TO SCALE		

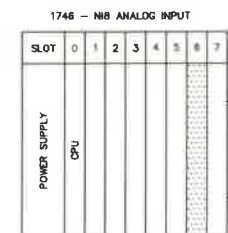
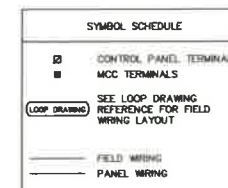
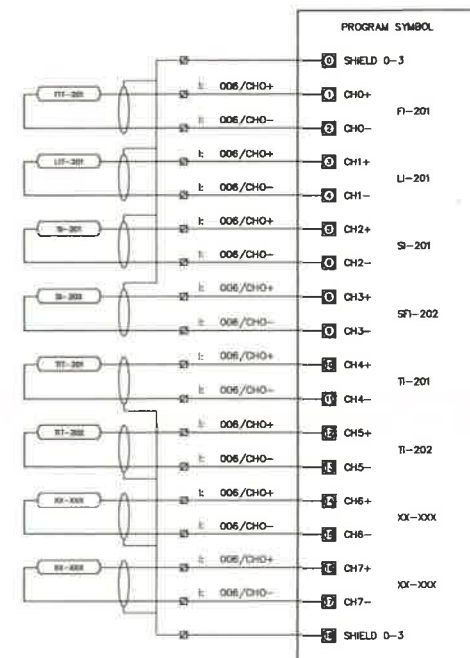
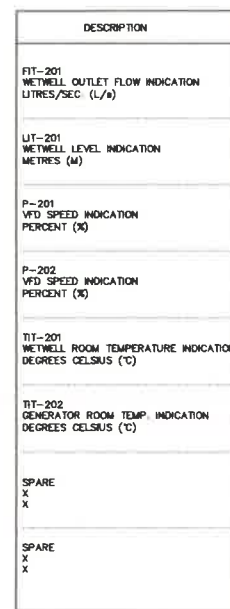
E3



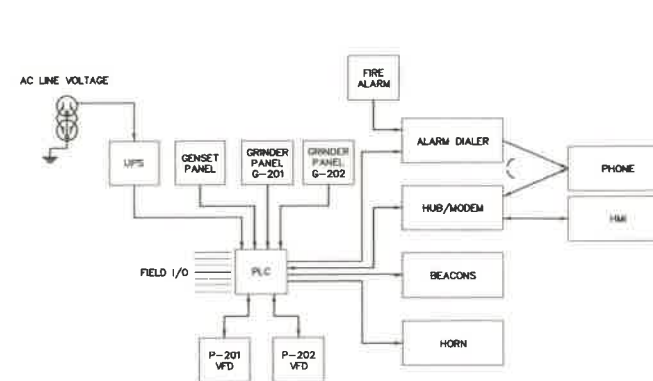
1 PLC DISCRETE OUTPUT MODULE WIRING DIAGRAM
E4 N.T.S.



3 PLC ANALOG OUTPUT MODULE WIRING DIAGRAM
E4 N.T.S.



2 PLC ANALOG INPUT MODULE WIRING DIAGRAM
E4 N.T.S.



4 CONTROL SYSTEM SCHEMATIC
E4 N.T.S.

AS BUILT
31-03-2011

Ottawa :
3740 Richmond Road, Suite 100, K2H 5B9
T.(613) 596 6454 F.(613) 596 3346
www.WBEPengineering.com

Gatineau :
430 de l'hôpital bid, suite 210, J6V 1T7
T.(819) 778-2448 F.(819) 778 5031
Consulting Engineers

1	ISSUED FOR CONSTRUCTION	05/04/10	WBEP
0	ISSUED FOR TENDER	06/19/09	WBEP C.W.
No	DESCRIPTION	DATE	BY



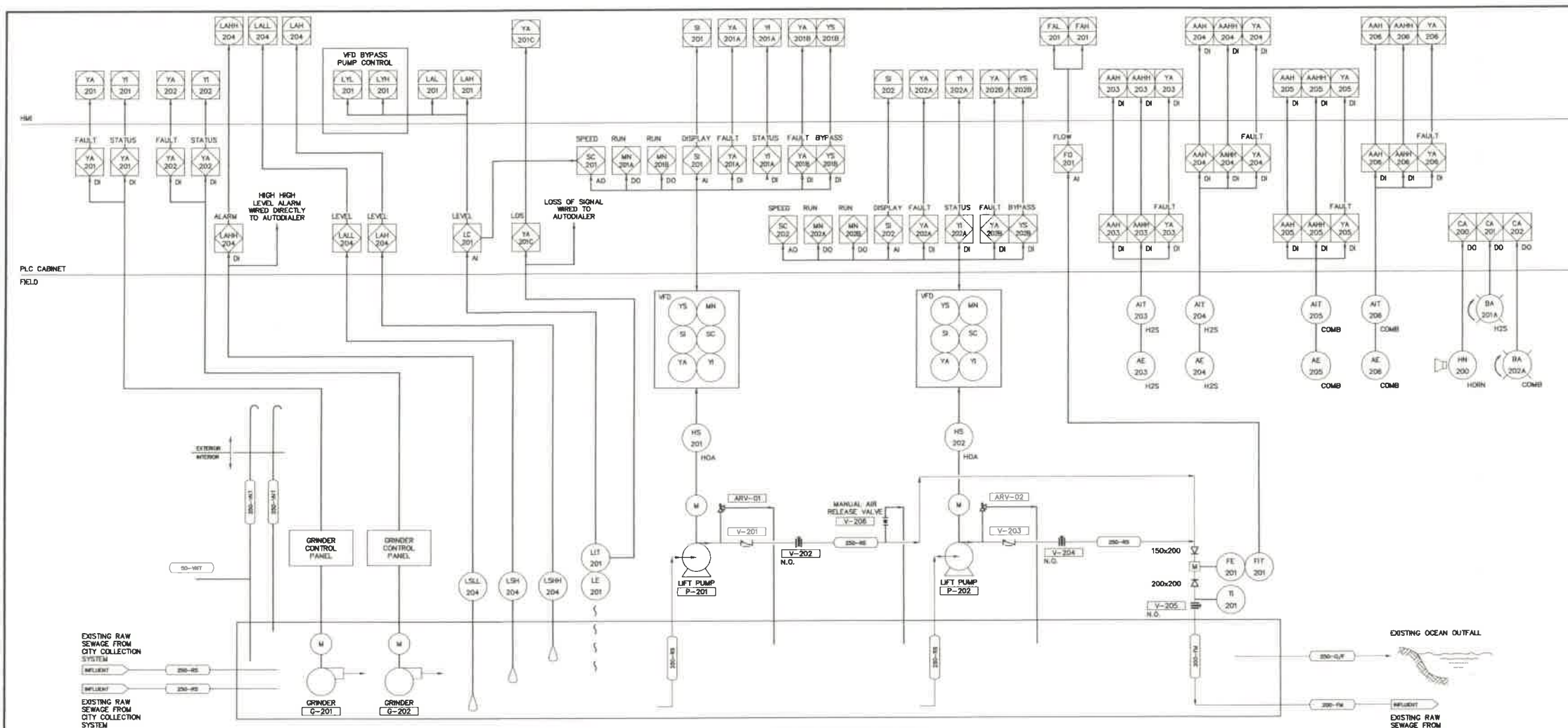
Trow Associates Inc.
154 Colonnade Road South
Ottawa, Ont. K2L 7J5
Tel:(613)225-9940 Fax:(613)225-7337

CITY OF IQUALUIT

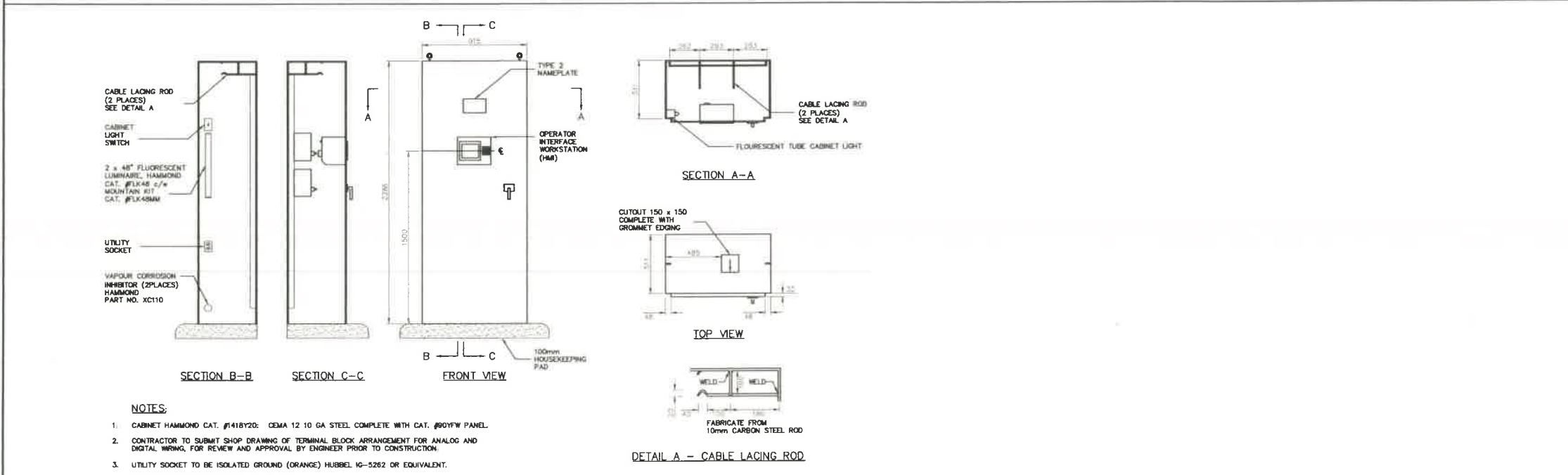
PROJECT: LIFT STATION No. 2 MODIFICATIONS

TITLE: ELECTRICAL PLC I/O AND CONTROL SCHEMATICS

drawn by	C.M.	project no.	OTCD00019365A
checked by	F.S.	drawing no.	E4
date	06/11/2009		
scale	NOT TO SCALE		



1 PIPING AND INSTRUMENTATION
E5 N.T.S.



2 PLC CABINET ELEVATION
E5 N.T.S.

AS BUILT
 31-03-2011

W&P ENGINEERING

Ottawa :
3740 Richmond Road, Suite 100, K2H 5B9
T: (613) 598 8454 F: (613) 598 3346
www.w&pengineering.com

Gatineau :
430 de l'hôpital bld, suite 210, J8V 1T7
T: (819) 778-2448 F: (819) 778-5631

Consulting Engineers

REV	DESCRIPTION	DATE	BY	APP'D
1	ISSUED FOR CONSTRUCTION	05/04/10	W&P	
0	ISSUED FOR TENDER	06/19/09	W&P	C.W.

THE STAMP COLOUR IS RED FOR

THE ORIGINAL SIGNED DRAWING

Trow Associates Inc.

154 Colonnade Road South
Ottawa, Ont. K2E 7J5

Tel: (613) 225-9940
Fax: (613) 225-7337

CITY OF IQALUIT

PROJECT: LIFT STATION No. 2
MODIFICATIONS

TITLE: ELECTRICAL
PIPING AND INSTRUMENTATION
DIAGRAM, PLC CABINET ELEVATION

Design by: C.M.

Drawn by: F.S.

Checked by: C.M.

Date: 06/11/2009

Scale: NOT TO SCALE

Project No: 07C000019365A

E5

MOTOR NO.	SERVICE DESCRIPTION	MOTOR LOCATION	MOTOR CHARACTERISTICS				SOURCE	FEEDER	BREAKER SIZE	MAGNETIC STARTERS										REMOTE CONTR.		REMARKS
			H.P.	F.L.A.	VOLT	Ø				MANUAL STARTER	STOP	START	STOP	START	STOP	START	STOP	START	STOP	START	STOP	
P-201	LIFT PUMP 1	WET WELL	5	4	600	3	MDP	3 #10 TECK	15A 3P													STARTER PACKAGE SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
P-202	LIFT PUMP 2	WET WELL	5	4	600	3		3 #10 TECK	15A 3P													STARTER PACKAGE SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
G-201	GRINDER PUMP	WET WELL	5	3.7	600	3		3 #10 TECK	15A 3P													STARTER PACKAGE SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
G-202	GRINDER PUMP	WET WELL	5	3.7	600	3		3 #10 TECK	15A 3P													STARTER PACKAGE SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
EF-1	EXHAUST FAN	SERVICE AREA			120	1	BP-A	2 #12+GRND IN 21mmC	15A 1P													INTERLOCKS PROVIDED BY CONTROL CONTRACTOR.
SF-1	SUPPLY FAN	SERVICE AREA	1/2		120	1	BP-A	4 #12+GRND IN 21mmC	15A 1P													INTERLOCKS PROVIDED BY CONTROL CONTRACTOR.

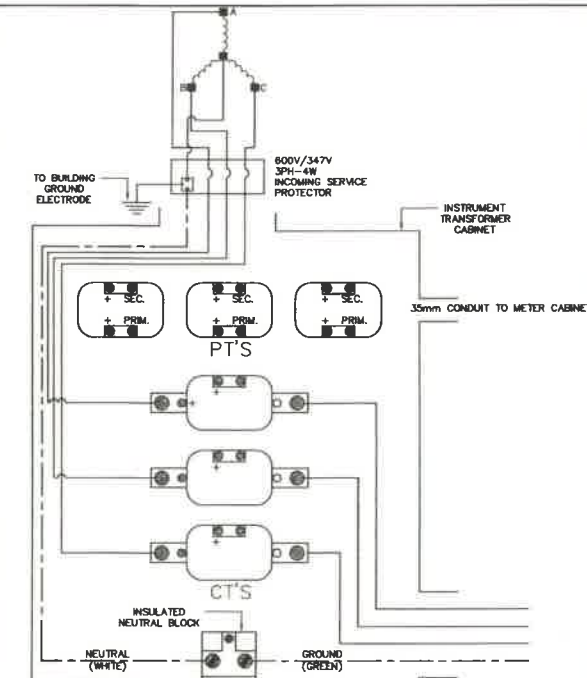
1 MCC SCHEDULE
E6

PANEL DESIGNATION	DP-1	PANEL LOCATION	SURFACE
NUMBER OF POLES	24		
SYSTEM VOLTAGE	600V/3PH/3W		
MAINS CAPACITY	125A		
INTERRUPTING CAPACITY	14KA		

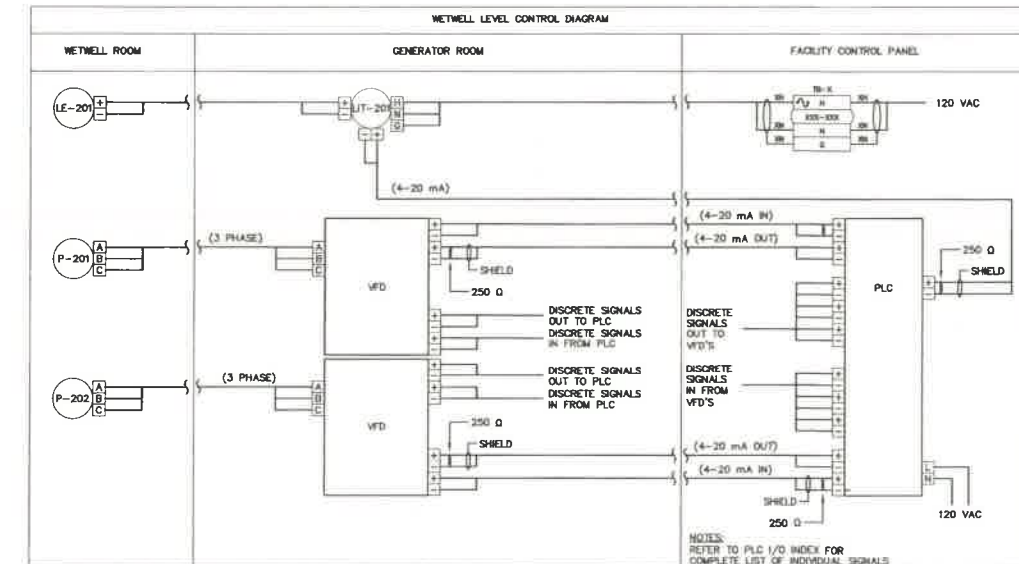
PANEL DESIGNATION	BP-A	PANEL LOCATION	SURFACE
NUMBER OF POLES	42		
SYSTEM VOLTAGE	120/208		
MAINS CAPACITY	225A		
INTERRUPTING CAPACITY	10KA		

2 PANEL SCHEDULES
E6

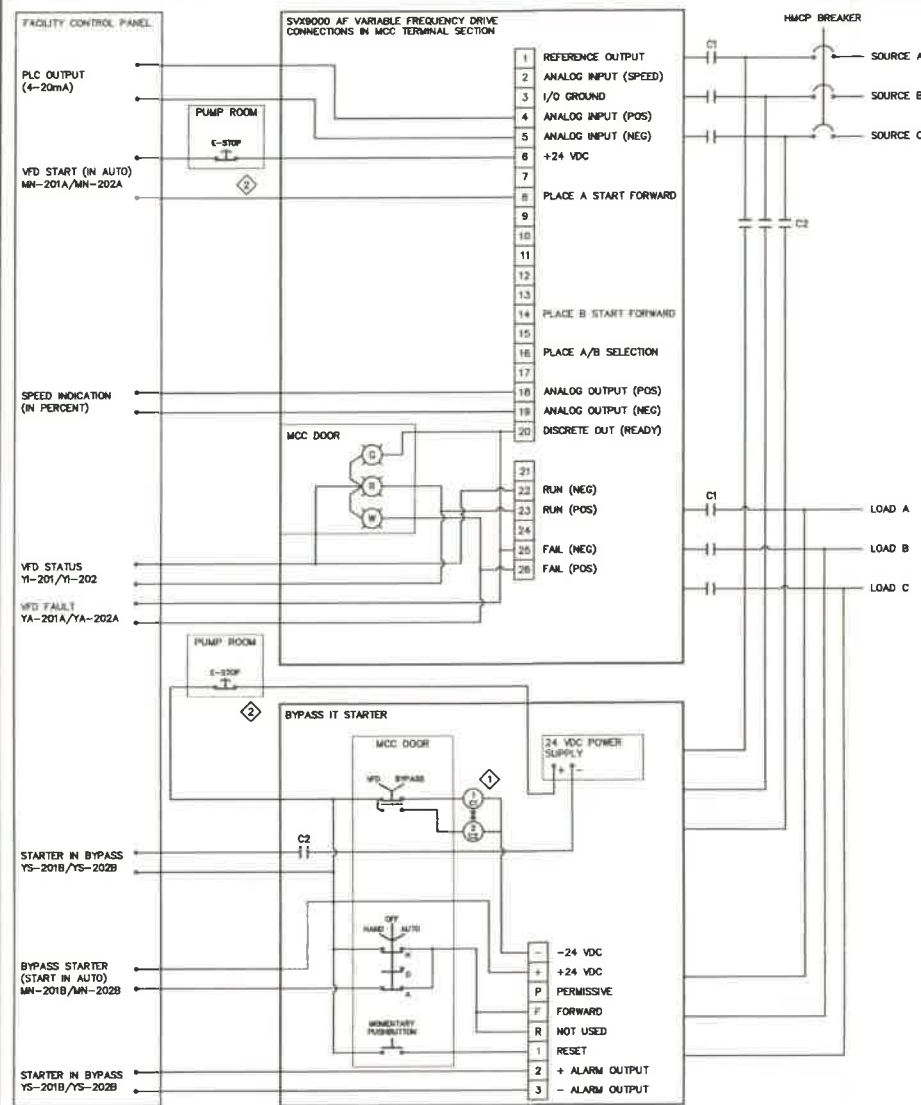
NOTES:
1. WIRE EXTERIOR LIGHTING CIRCUIT THROUGH CONTROL CONTRACTOR. CONTACTOR TO BE CONTROLLED BY WALL MOUNTED PHOTOCELL.



6 INSTRUMENT TRANSFORMERS
E6 N.T.S.

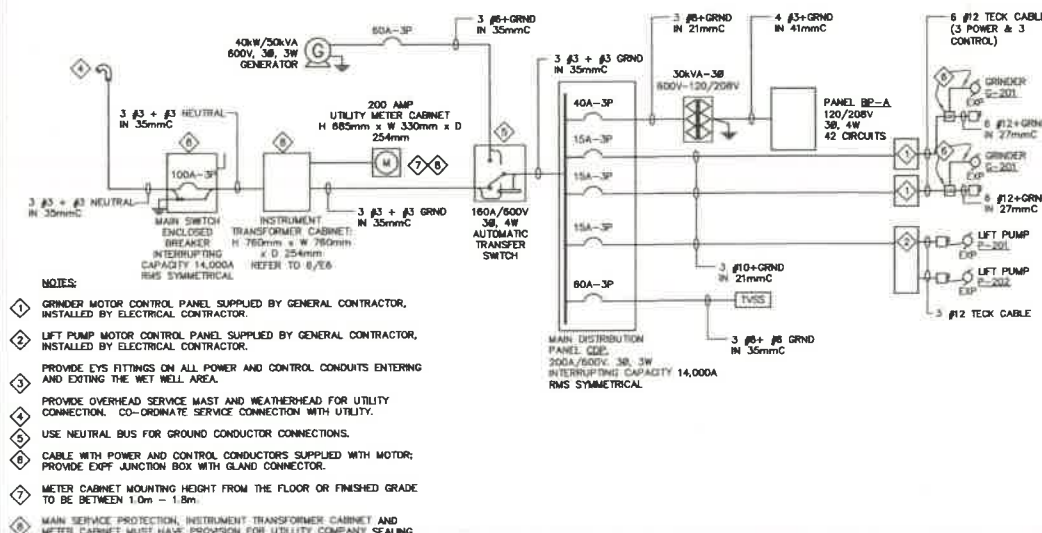


4 LEVEL CONTROL SCHEMATIC
E6



NOTES:
1. MOTOR CONTROL CIRCUITS ARE SHOWN AT 24VDC. INSTRUMENTATION CONTRACTOR TO COORDINATE WITH DIVISION 18 AND THE SUPPLY OF MCC EQUIPMENT. SHOULD 120VAC MOTOR CONTROL BE REQUIRED, THE INSTRUMENTATION CONTRACTOR IS TO REVISE PLC I/O AS REQUIRED.
2. MECHANICAL INTERLOCK
3. E-STOP PUSH BUTTONS SHOWN REPRESENT ADDITIONAL CONTACTS ON A SINGLE PB PROVIDED IN THE LOCAL CONTROL PANEL AND AT THE RAW WATER PUMPS.

3 MOTOR STARTER SCHEMATIC
E6 N.T.S.



5 ELECTRICAL SINGLE LINE DIAGRAM
E6 N.T.S.

Ottawa :
3740 Richmond Road, Suite 100, K2H 5B9
T(613) 596.6454 F(613) 596.3346
www.WEBBEngineering.com
Gatineau :
430 de l'hôpital bld, suite 210, J6V 1T7
T(819) 778.2448 F(819) 778.5031
Consulting Engineers

REVISED 5/06 FOR INCOMING SERVICE AND UTILITY METER AND ADDED DEATH 6/06	07/27/10	WESP	C.W.
ISSUED FOR CONSTRUCTION	05/04/10	WESP	
ISSUED FOR TENDER	06/19/08	WESP	C.W.
DESCRIPTION	DATE	BY	APPROVED



Trow Associates Inc.
154 Colomade Road South
Ottawa, Ont. K2E 7J5
Tel:(613)225-9940
Fax:(613)225-7337

CITY OF IQALUIT

PROJECT LIFT STATION No. 2
MODIFICATIONS

TITLE	ELECTRICAL MCC & PANEL SCHEDULE, MOTOR & LEVEL SCHEMATIC, SINGLE LINE		
designed by	C.M.	project no.	OTC00019365A
drawn by	F.S.	drawing no.	
checked by	C.M.		
date	06/11/2009		
scale	NOT TO SCALE		

E6

Panel Description :		DP-1		SURFACE MOUNT		
Number of Pole :		42				
System Voltage		600V/3PH/3W				
Main Capacity		125A				
Interrupting Capacity		14kA				
DESCRIPTION	BRK AMP. POLE	CCT. NO.	PHASE	CCT. NO.	BRK AMP. POLE	DESCRIPTION
		1	A	2		
		3	B	4		
		5	C	6		
		7	A	8		
		9	B	10		
		11	C	12		
		13	A	14		
		15	B	16		
		17	C	18		
Transformer T-A 30kVA	40A	19	A	20		
		21	B	22		
		23	C	24		
SURGELOGIC TVSS		25	A	26	15A	Grinder G-202
		27	B	28		
		29	C	30		
		31	A	32	15A	Grinder G-202
		33	B	34		
		35	C	36		
	60A	37	A	38	15A	P-201/P-202 Duplex pump control panel
		39	B	40		
		41	C	42		

Panel Description :		BP-A			SURFACE MOUNT	
Number of Pole :		42				
System Voltage		120/208				
Main Capacity		225A				
Interrupting Capacity		10kA				
DESCRIPTION	BRK AMP. POLE	CCT. NO.	PHASE	CCT. NO.	BRK AMP. POLE	DESCRIPTION
BOILER-02	1P15	1	A	2	1P15	GENERAL RECEPTACLES
FUEL PUMP P-02	1P15	3	B	4	1P15	EBU-1 AND LIGHTNING
BOILER-01	1P15	5	C	6	1P15	FIRE ALARM PANEL + SECURITY
FUEL PUMP P-01	1P15	7	A	8	1P15	UNIT HEATERS
BOILER CONTROL PANEL	1P15	9	B	10	1P15	WATER BOOSTER PUMP P-03
FUEL PUMP CONTROL PANEL	1P20	11	C	12	1P15	EXTERIOR LIGHTS
SPARE	1P15	13	A	14	1P15	TELEPHONE BLACKBOARD
GLYCOL FILL PUMP P-04	1P15	15	B	16	1P15	MOTORISED DAMPERS
BATTERY CHARGER	1P20	17	C	18	1P15	EXHAUST FAN EF-01
GENERATOR BLOC HEATER	1P20	19	A	20	1P20	HOT WATER TANK
SF-01	1P15	21	B	22	1P15	PLC CABINET
SPARE	1P15	23	C	24	1P15	WET WELL LIGHTING
		25	A	26	1P15	EXTERIOR GFI RECEPTACLE
-		27	B	28	3P15	WET ROOM WINCH
-		29	C	30		
-		31	A	32		
-		33	B	34	1P15	INTERIOR GFI RECEPTACLES
-		35	C	36		
-		37	A	38		
-		39	B	40		
-		41	C	42		

IQAWIT LIFTSTATION No.2

PLAN E7

AS BUILT

31-03-2011