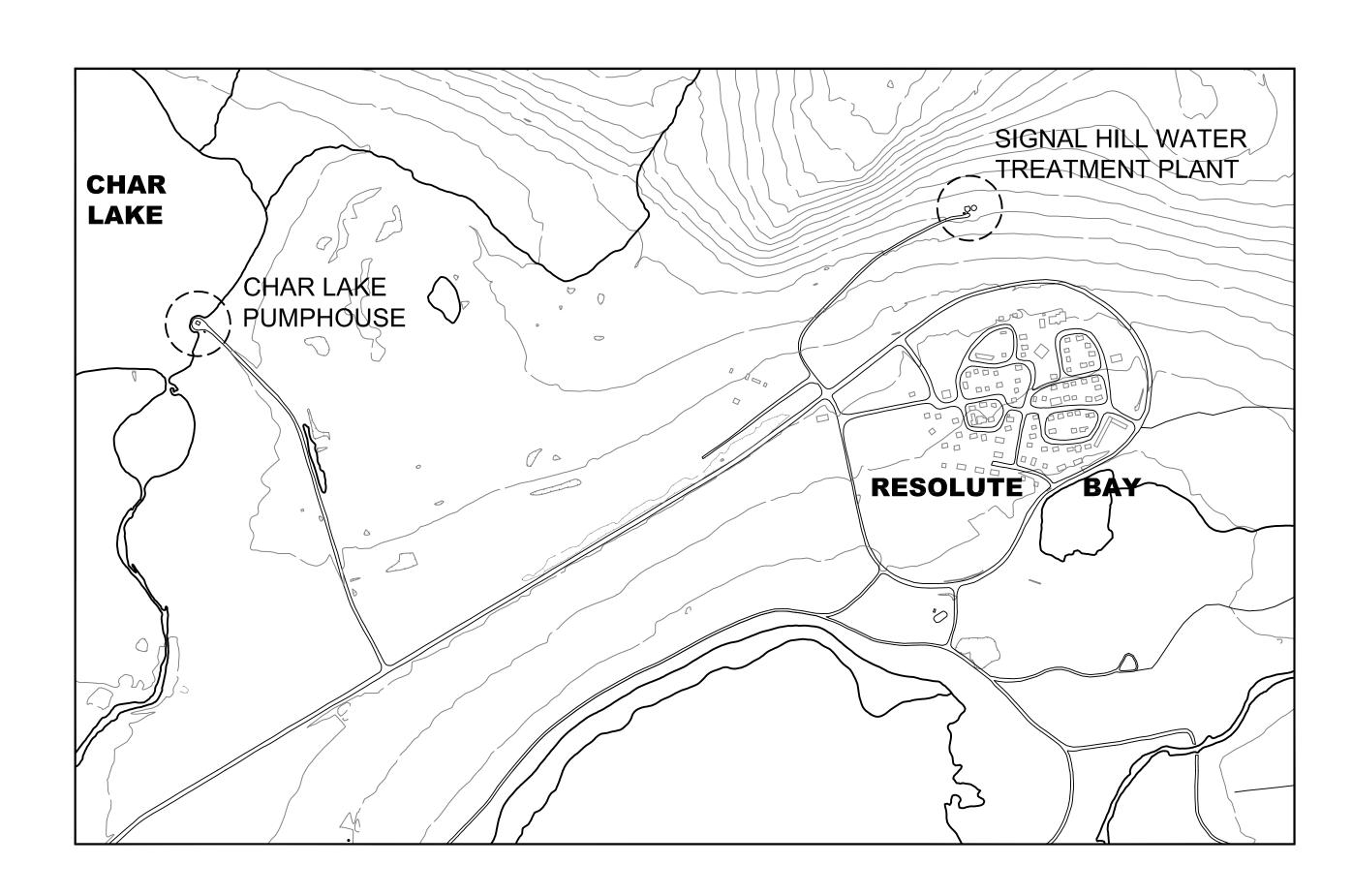
GOVERNMENT OF NUNAVUT





INDEX OF INCLUDED DRAWINGS

DRAWING NO.	REVISION	DESCRIPTION
		COVER SHEET
S1	REV 1	FUEL STORAGE TANK CONCRETE PAD
S2	REV 1	FUEL SYSTEM GEN-SET
M1	REV 0	MECHANICAL LEGEND AND DRAWING LIST
M2	REV 0	CHAR LAKE - WATER SYSTEM
М3	REV 0	SIGNAL HILL - WATER SYSTEM
M4	REV 0	WATER SYSTEM PIPING SCHEMATIC
М5	REV 0	CHAR LAKE - FUEL SYSTEM
М6	REV 0	SIGNAL HILL - FUEL SYSTEM
М7	REV 0	SIGNAL HILL - FUEL SYSTEM
М8	REV 0	CHAR LAKE - FUEL SYSTEM SCHEMATIC
М9	REV 0	SIGNAL HILL - FUEL SYSTEM SCHEMATIC
M10	REV 0	CHAR LAKE — VENTILATION
M11	REV 0	SIGNAL HILL — VENTILATION
M13	REV 0	CONTROL SCHEMATICS
E1	REV 0	SIGNAL HILL ELEC. DISTRIBUTION AND SINGLE LINE
E2	REV 0	CHAR LAKE ELEC. DISTRIBUTION AND SINGLE LINE
E3	REV 0	CHAR LAKE AND SIGNAL HILL LIGHTING PLANS

ISSUED FOR TENDER PURPOSES ONLY

DATE: MAY 6, 2011

RESOLUTE BAY

CHAR LAKE / SIGNAL HILL REHABILITATION

PROJECT 11-2008

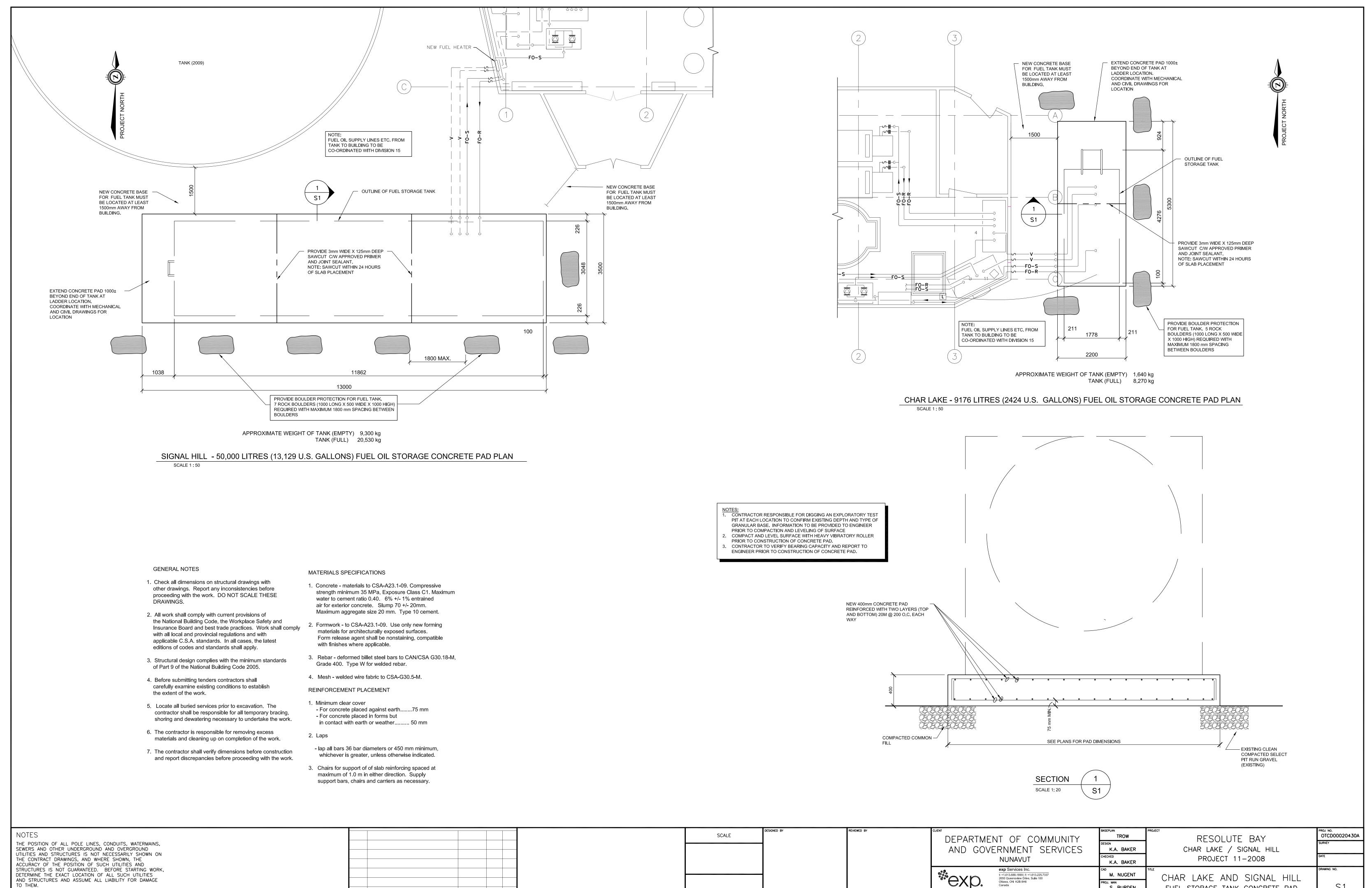
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t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6
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PROJECT NO: OTCD20430A



09/05/11 MN KAF

DATE BY AF

ISSUED FOR TENDER

REVISION DESCRIPTION

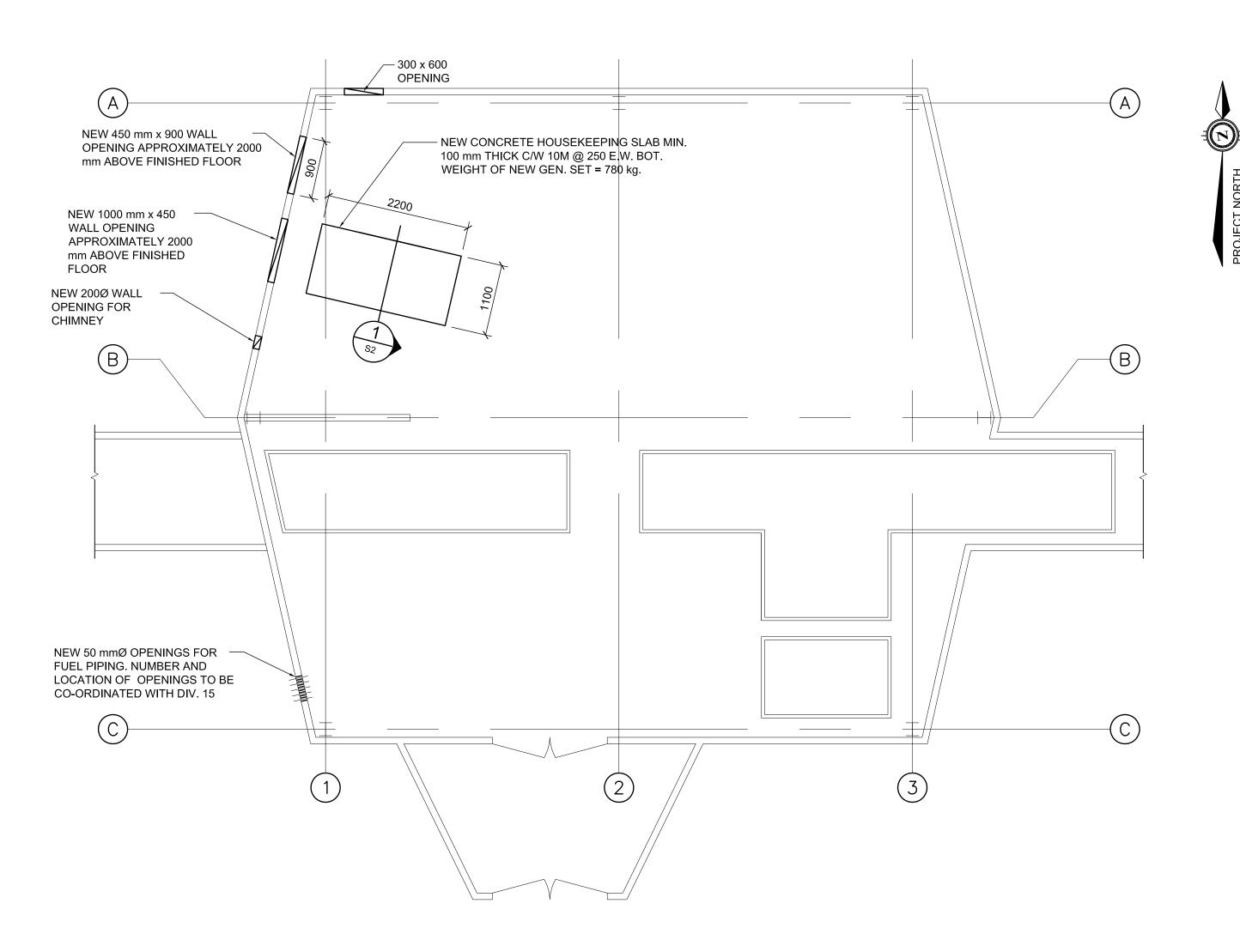
FUEL STORAGE TANK CONCRETE PAD

PLANS AND DETAILS

S. BURDEN

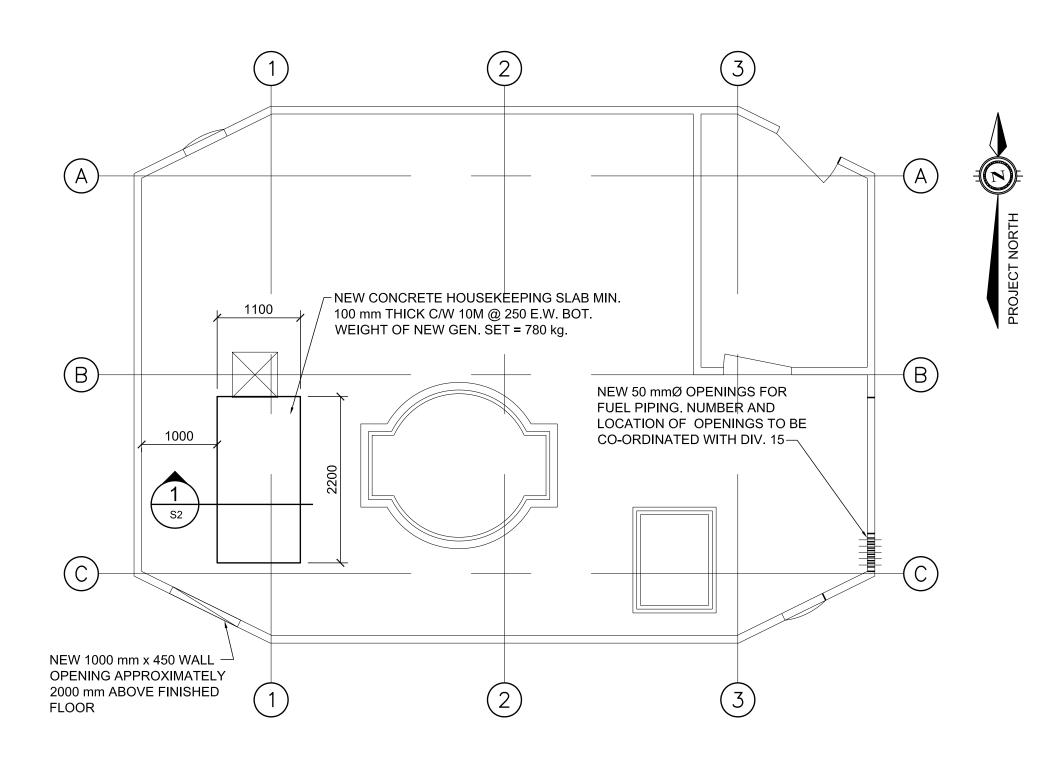
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY



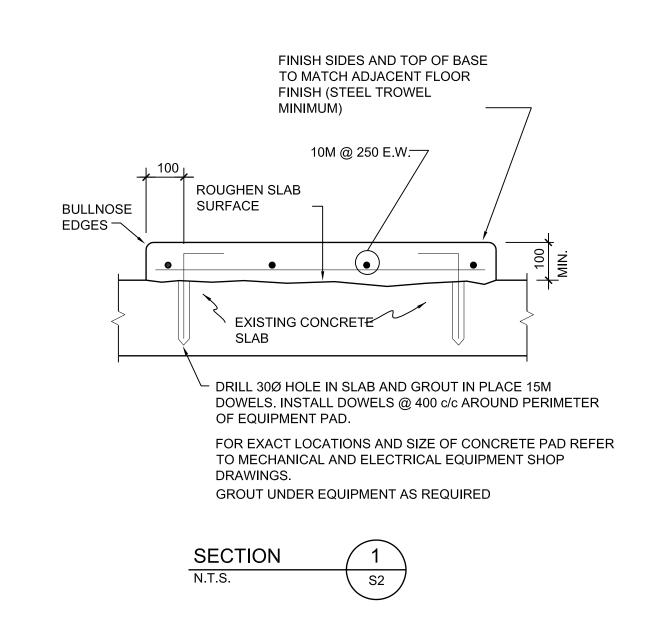
SIGNAL HILL GROUND FLOOR PLAN FUEL SYSTEM GEN-SET HOUSEKEEPING SLAB & VARIOUS WALL OPENINGS

SCALE : 1:50

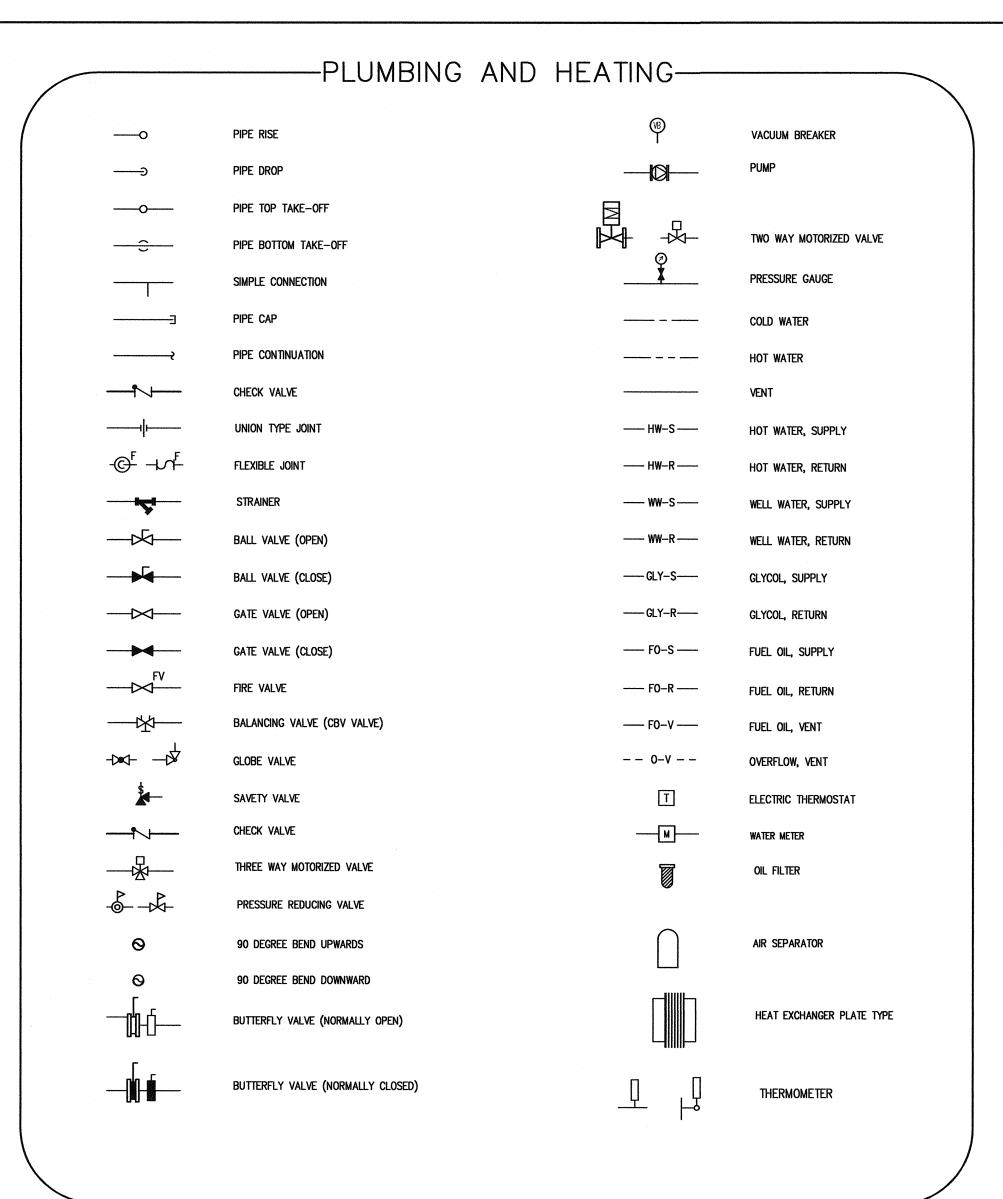


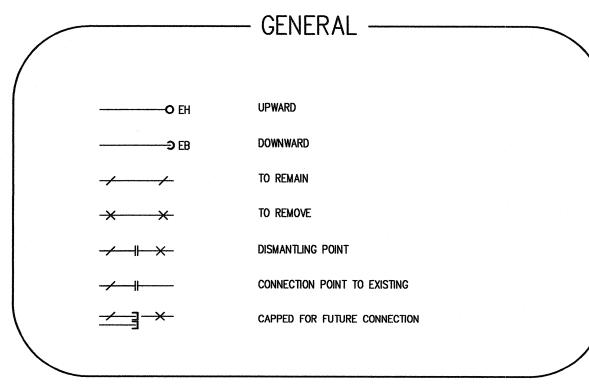
CHAR LAKE GROUND FLOOR PLAN
FUEL SYSTEM GEN-SET
HOUSEKEEPING SLAB & VARIOUS WALL OPENINGS

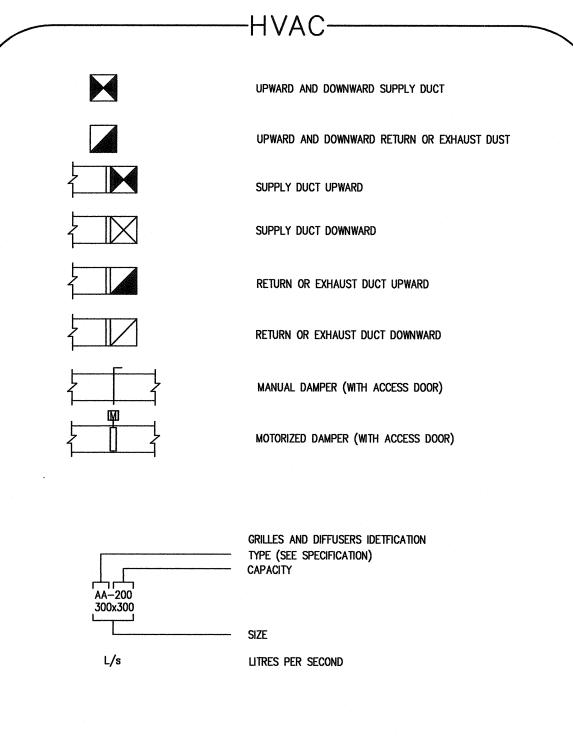
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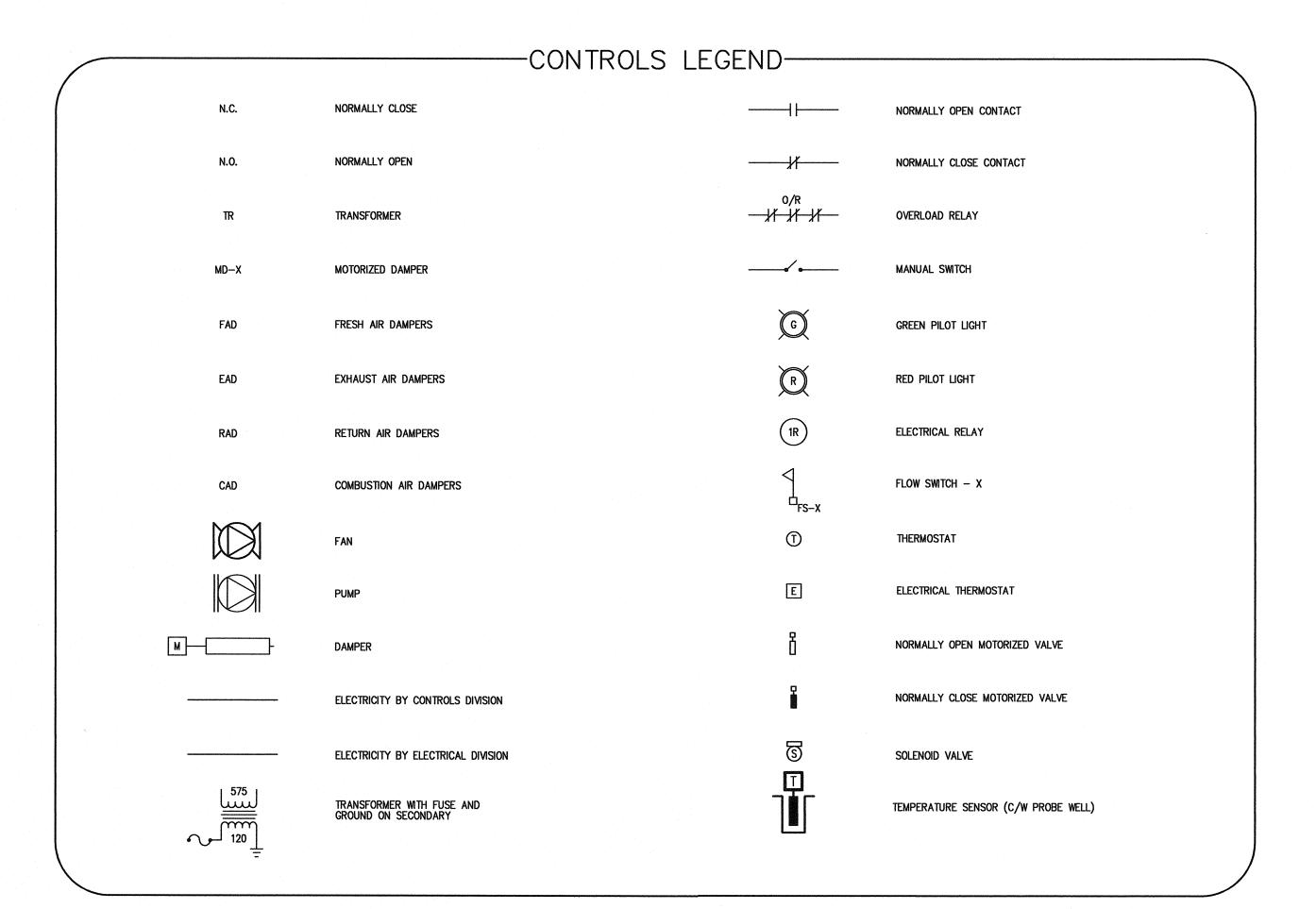


PROJ NO. OTCD00020430A SCALE DEPARTMENT OF COMMUNITY RESOLUTE BAY THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE AND GOVERNMENT SERVICES K.A. BAKER CHAR LAKE / SIGNAL HILL PROJECT 11-2008 NUNAVUT MAY 2011 K.A. BAKER ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK,
DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES
AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE
TO THEM. t: +1.613.688.1899 | f: +1.613.225,7337 2650 Queensview Drive, Suite 100 Ottawa, ON K2B 8H6 Canada M. NUGENT CHAR LAKE AND SIGNAL HILL S2 S. BURDEN FUEL SYSTEM GEN-SET ISSUED FOR TENDER 09/05/11 MN KA PLANS AND SECTION • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • DATE REVISION DESCRIPTION INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY • The new identity of **Trow / DME**









-DRAWING LIST-

MECHANICAL - LEGEND AND DRAWING LIST MECHANICAL - CHAR LAKE WATER SYSTEM MECHANICAL - SIGNAL HILL WATER SYSTEM MECHANICAL - WATER SYSTEM PIPING SCHEMATIC MECHANICAL - CHAR LAKE FUEL SYSTEM MECHANICAL - SIGNAL HILL FUEL SYSTEM

MECHANICAL - SIGNAL HILL FUEL SYSTEM MECHANICAL - CHAR LAKE FUEL SYSTEM SCHEMATIC

MECHANICAL - SIGNAL HILL FUEL SYSTEMS SCHEMATIC

MECHANICAL - SIGNAL HILL VENTILATION

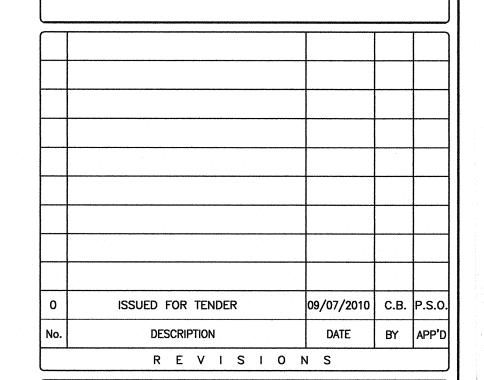
MECHANICAL - CHAR LAKE VENTILATION MECHANICAL - SIGNAL HILL VENTILATION

MECHANICAL - CONTROL SCHEMATIC

PERMIT TO PRACTICE WOOD BANANI BOUTHILLETTE PARIZEAU INC Signature _____ Date _____07-SEP-2010 PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU

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Fax:(613)225-7337



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RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT

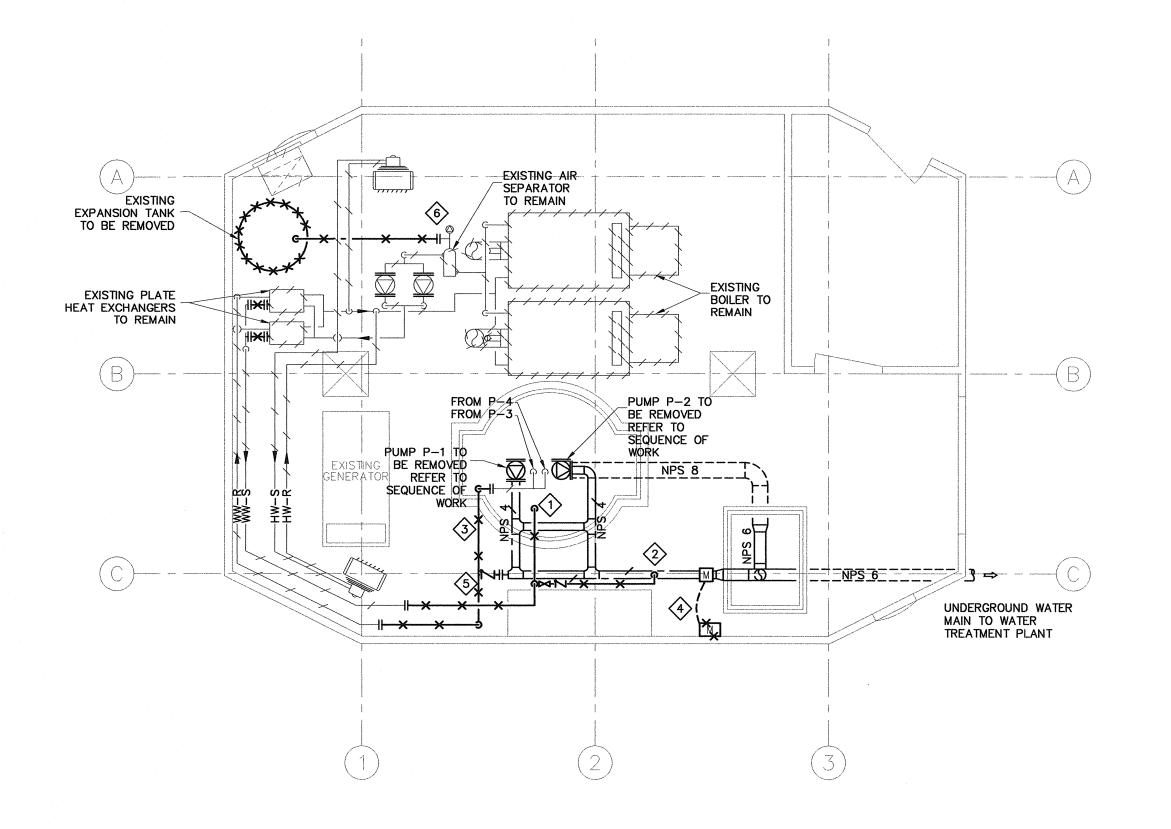
MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

LEGEND AND DRAWING LIST

MECHANICAL

design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	N/1
date	MAY 2010	IVII
scale	AS SHOWN	

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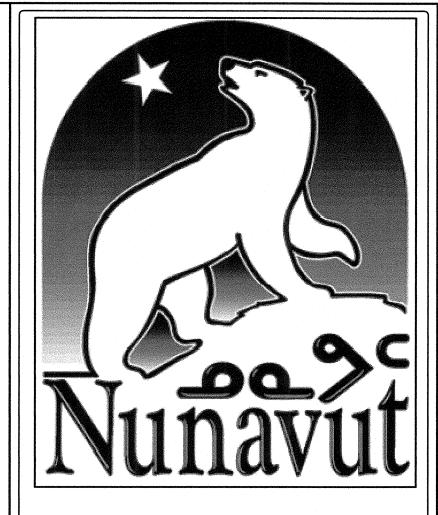
CHAR LAKE - WATER SYSTEM - EXISTING AND DEMOLITION LAYOU?

SEPARATOR TO NEW EXPANSION CXT 01 EXPANSION TANK TANK. REFER TO -SPECIFICATIONS FOR DETAILS. CGT 01 NEW GLYCOL FEED SYSTEM. REFER TO SPECIFICATIONS FOR DETAILS. FROM P-4 NEW DAY TANK. REFER TO M5 AND M8. UNDERGROUND WATER MAIN TO TREATMENT PLANT M NEW DUPLEX FILTRATION SYSTEM. FUEL PUMP SET. REFER TO M5 AND REFER TO M5 AND M8.

G: $\2010\8010040\WBBP\Mech\2-Tender\8010-040_M2_CL_P_R00.dwg$

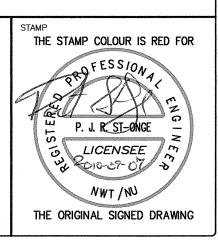
DRAWING NOTES:

- HOT WATER SUPPLY PIPE DOWN TO WET WELL TO BE REMOVED.
- HOT WATER SUPPLY PIPE TO WATER TREATMENT PLANT TO BE REMOVED.
- MODIFY EXISTING HOT WATER RETURN PIPING FROM WET WELL TO HEAT EXCHANGERS TO SUIT NEW FUEL EQUIPMENT INSTALLATION. COORDINATE ON SITE WITH FUEL SYSTEMS CONTRACTOR.
- EXISTING MAGNETIC WATER METER TO BE REMOVED ALONG WITH WALL DISPLAY UNIT AND ALL CABLES.
- 5 REMOVE EXISTING CHECK VALVE.
- DISCONNECT EXPANSION TANK FROM AIR SEPARATOR AIR VENT



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No.	DESCRIPTION	DATE	BY	APF
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Trow Associates Inc.

Tel:(613)225-9940 Ottawa, Ont. K2E 7J5 Fax:(613)225-7337

GOVERNMENT OF NUNAVUT

DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL CHAR LAKE - WATER SYSTEM

design by C.BOURGOGNE C.BOURGOGNE P.ST-ONGE MAY 2010 AS SHOWN

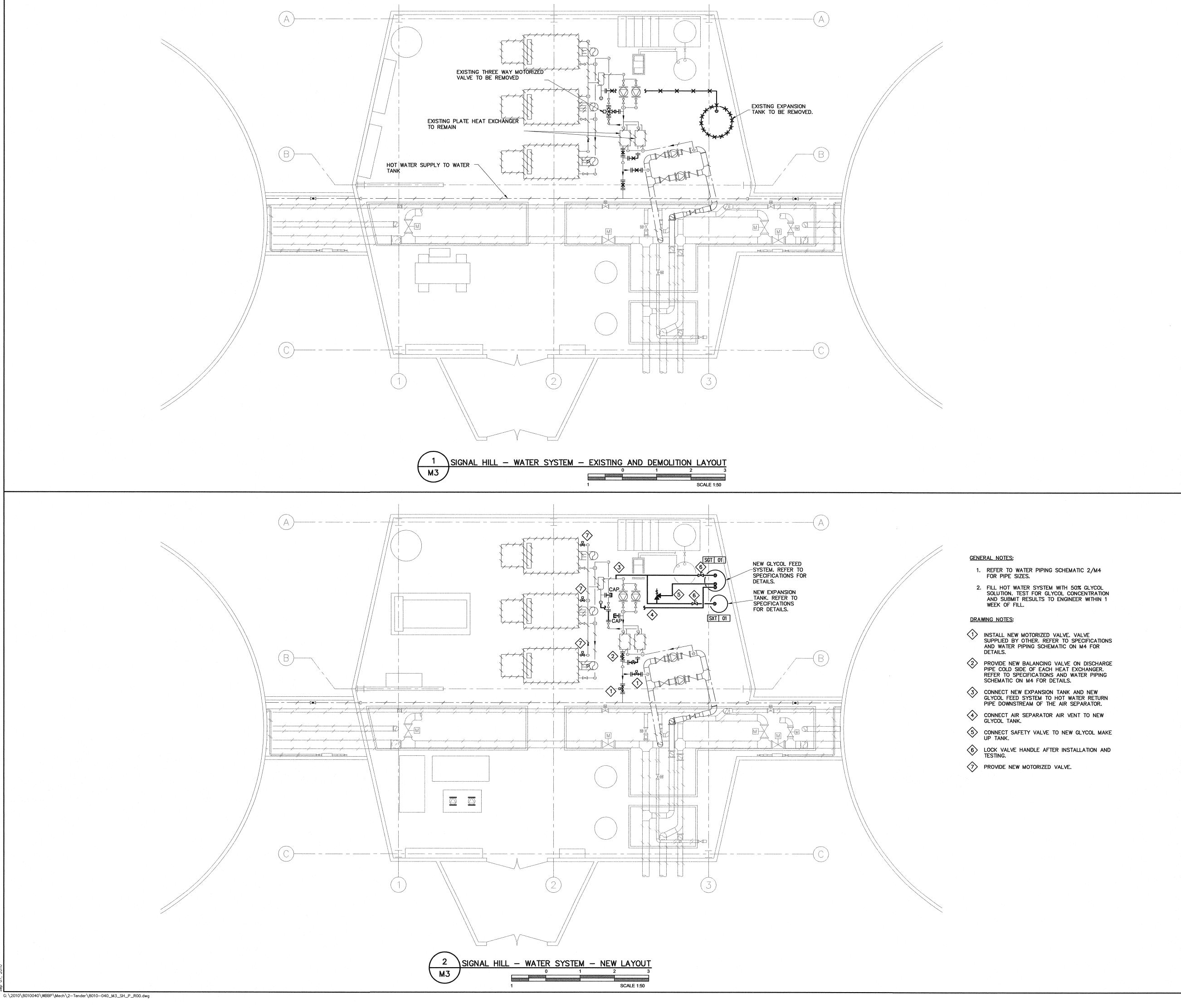
GENERAL NOTES:

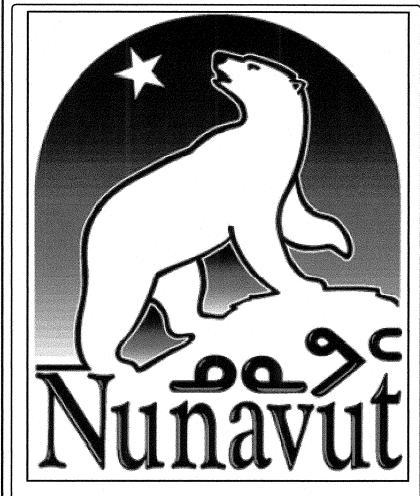
1. REFER TO WATER PIPING SCHEMATIC 1/M4 FOR

2. FILL HOT WATER SYSTEM WITH 50% GLYCOL SOLUTION. TEST FOR GLYCOL CONCENTRATION AND SUBMIT RESULTS TO ENGINEER WITHIN 1 WEEK OF FILL.

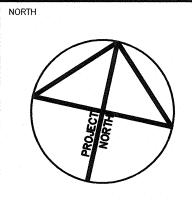
DRAWING NOTES:

- PROVIDE NEW WELL WATER SUPPLY PIPE DOWN TO WET WELL.
- CONNECT NEW HOT WATER SUPPLY PIPE TO MAIN WATER PIPE UPSTREAM OF NEW WATER FLOW METER.
- MODIFY EXISTING WELL WATER RETURN PIPING FROM WET WELL TO HEAT EXCHANGERS TO SUIT NEW FUEL EQUIPMENT INSTALLATION. COORDINATE ON SITE WITH FUEL SYSTEMS CONTRACTOR.
- CONNECT NEW EXPANSION TANK AND GLYCOL FEED SYSTEM TO HOT WATER RETURN PIPE, DOWNSTREAM OF AIR SEPARATOR.
- PROVIDE NEW BALANCING VALVE ON OUTLET OF COLD SIDE OF HEAT EXCHANGERS.
- 6 NEW WATER PUMP SUPPLIED BY OTHER, INSTALLED BY MECHANICAL CONTRACTOR. REFER TO SPECIFICATION FOR DETAILS AND INSTALLATION
- PROVIDE NEW WATER METER. REFER TO SPECIFICATIONS FOR DETAILS.
- 8 LOCK VALVE HANDLES AFTER INSTALLATION AND TESTING.
- 9 CONNECT RELIEF VALVE TO NEW GLYCOL TANK.



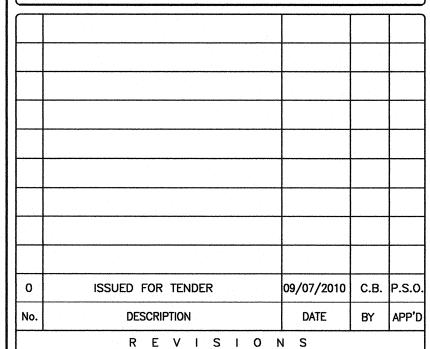


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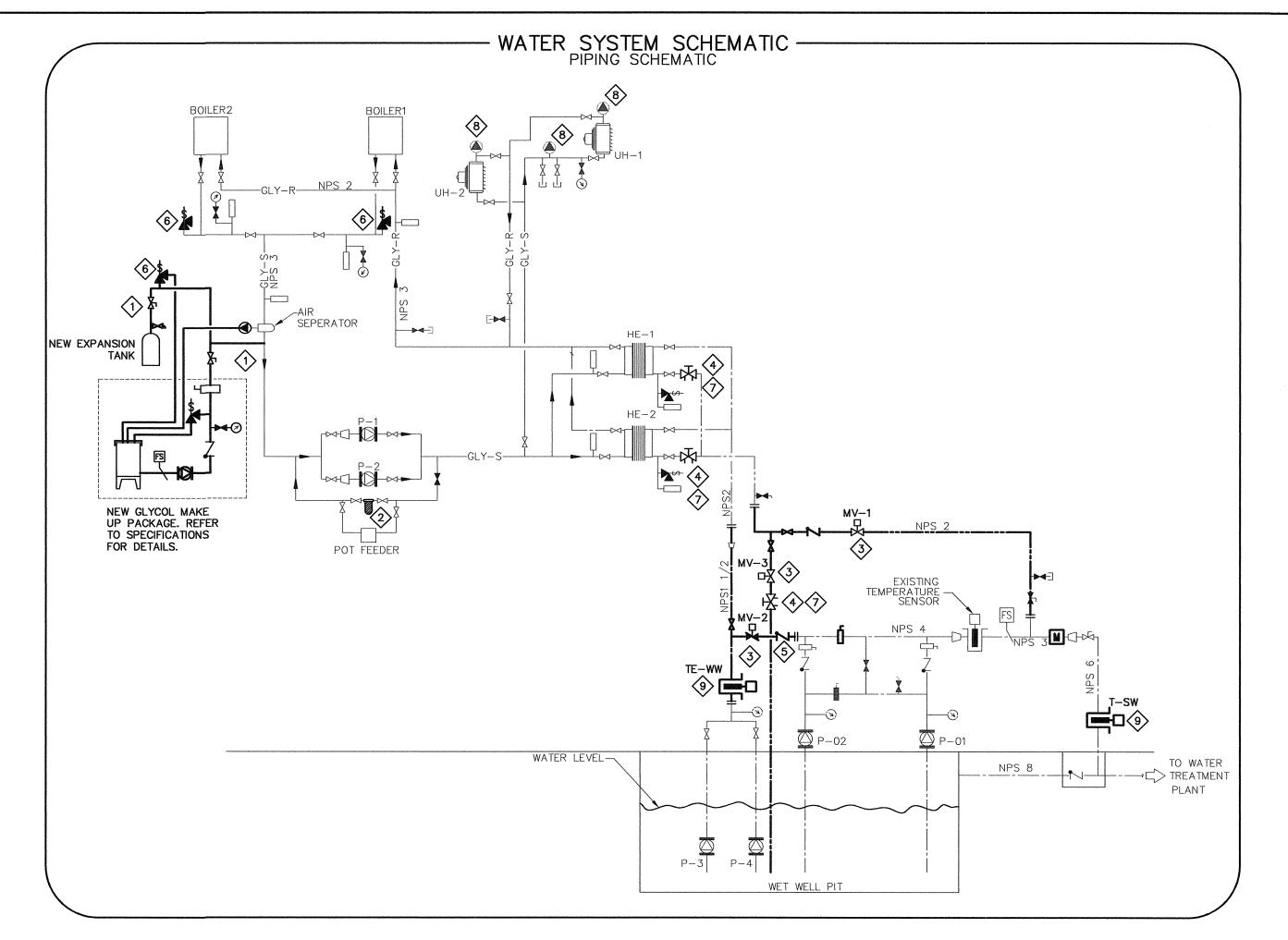
Ottawa, Ont. K2E 7J5

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RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

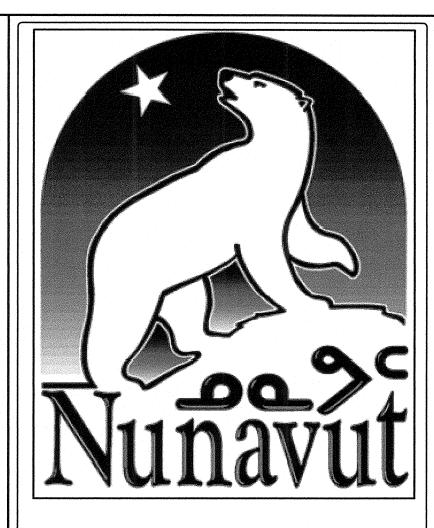
MECHANICAL SIGNAL HILL - WATER SYSTEM

design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	113
date	MAY 2010	
scale	AS SHOWN	



DRAWING NOTES:

- (1) LOCK VALVE HANDLE AFTER INSTALLATION AND TESTING.
- 2 REINSTALL FILTER IN DIRECTION OF FLOW.
- install new motorized valve, supplied by other.
- PROVIDE NEW BALANCING VALVE.
- 5 PROVIDE NEW CHECK VALVE.
- > CONNECT SAFETY VALVE TO NEW GLYCOL TANK. SET AT 551.6kPa (80 PSI).
- BALANCE TO 431.9 L/min (114.1 USGPM).
- CONNECT RELIEF VALVE TO NEW GLYCOL TANK.
- 9 INSTALL NEW TEMPERATURE SENSOR, SUPPLIED BY OTHER.

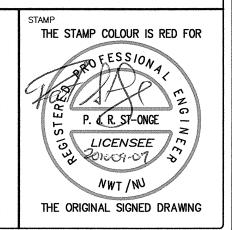


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wood BANANI BOUTHLUETTE PARIZEAU INC.

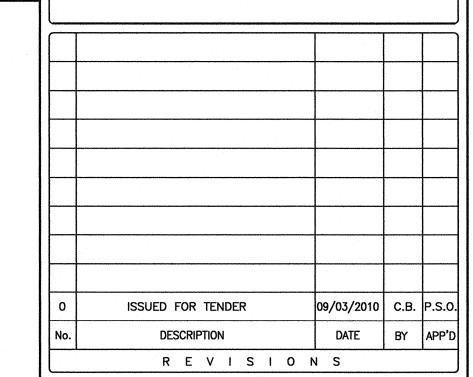
Signature
Date
07-SEP-2010

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Trow Associates Inc.

154 Colonnade Road South
Ottawa, Ont. K2E 7J5

Tel:(613):
Fax:(613):

GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT

MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

PIPING SCHEMATIC

MECHANICAL WATER SYSTEM

design by

C.BOURGOGNE

drawn by

C.BOURGOGNE

checked by

P.ST-ONGE

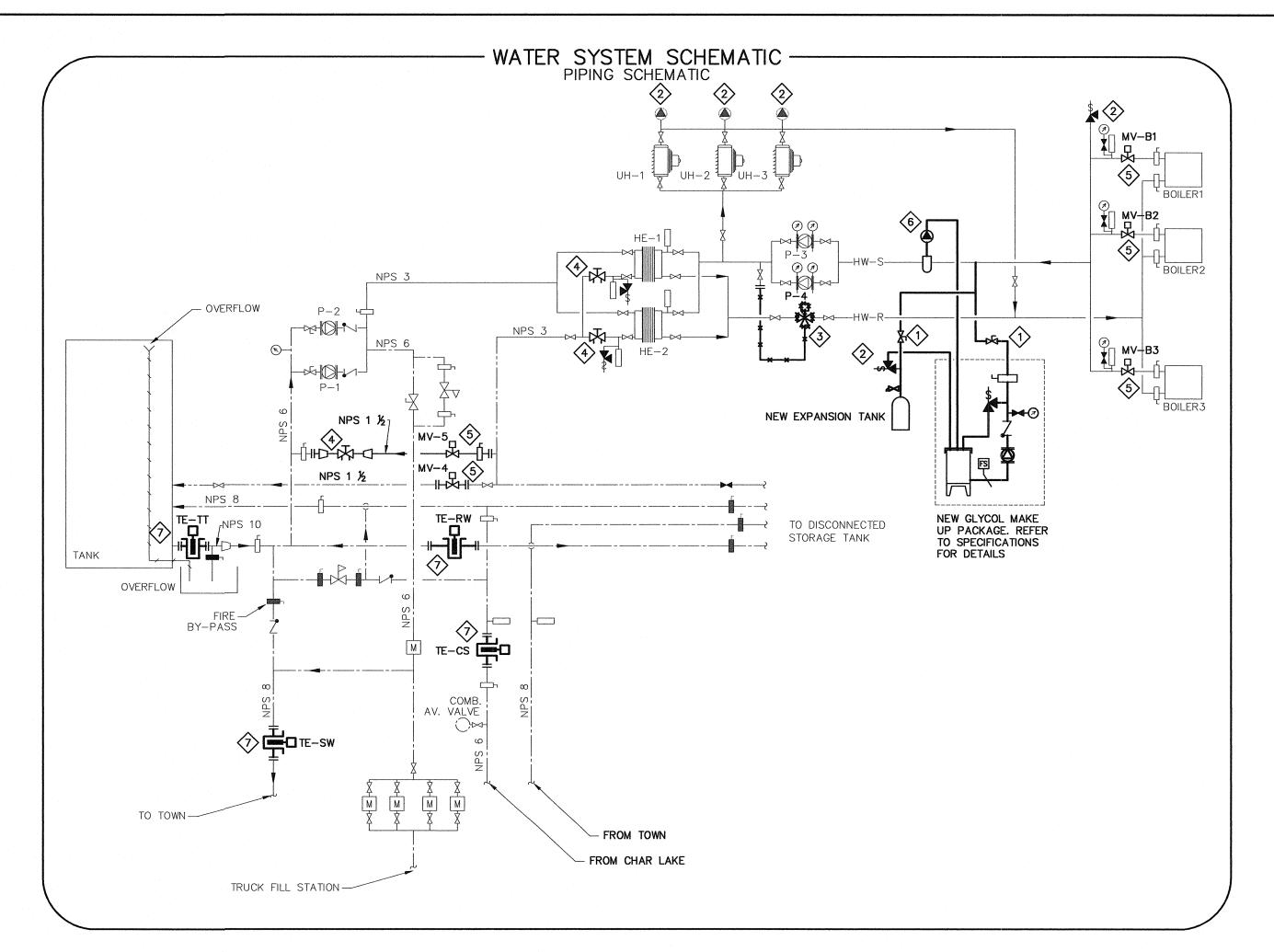
date

MAY 2010

scale

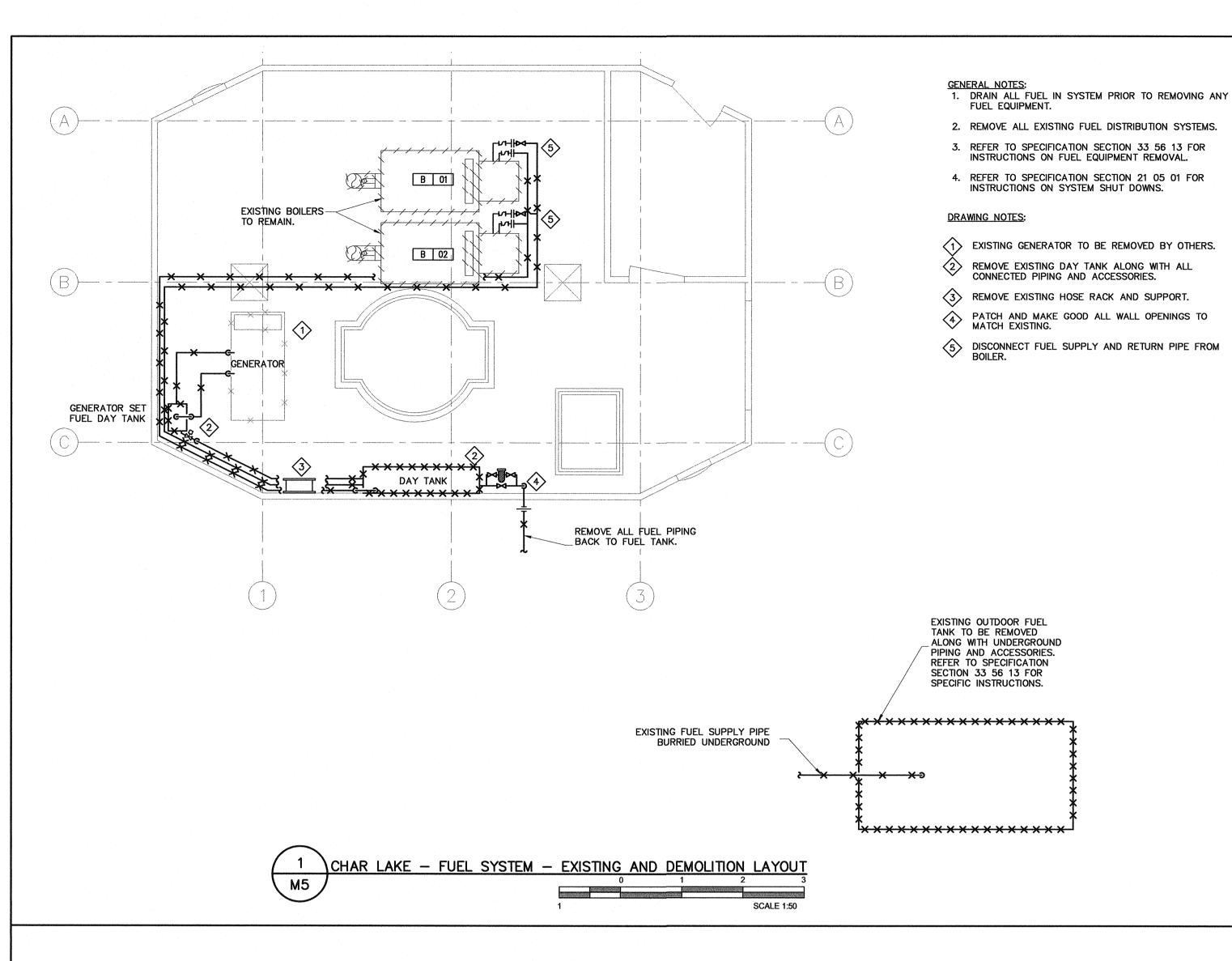
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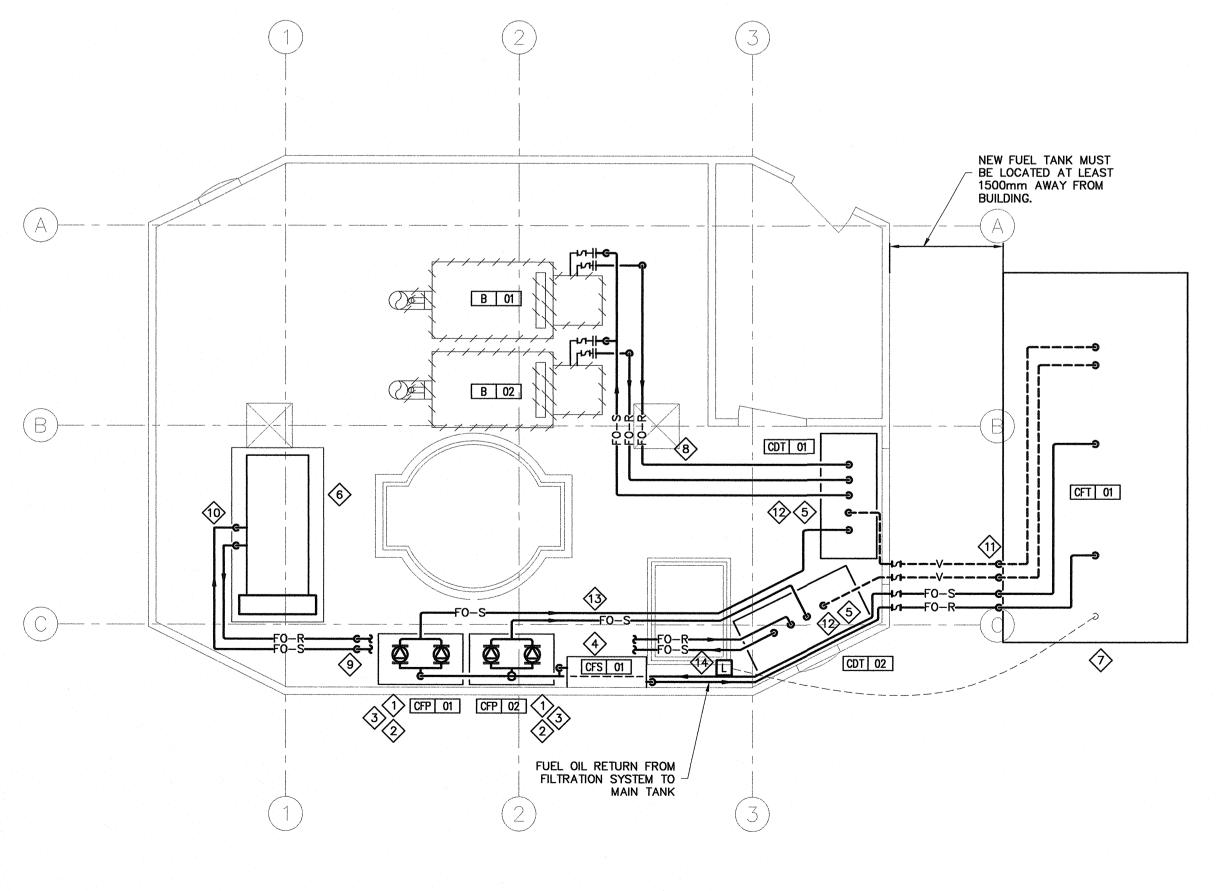
1 CHAR LAKE - WATER SYSTEM PIPING SCHEMATIC NTS



DRAWING NOTES:

- LOCK VALVE HANDLE AFTER INSTALLATION AND TESTING.
- CONNECT AIR VENT/RELIEF VALVE TO NEW GLYCOL TANK. SET AT 551.6kPa (80 PSI).
- REMOVE EXISTING 3-WAY MOTORIZED VALVE AND CAP BYPASS PIPE.
- PROVIDE NEW BALANCING VALVE AND BALANCE TO 431.9 L/min (114.1 USGPM).
- install new motorized valve, supplied by other.
- DISCONNECT AIR SEPARATOR FROM EXPANSION TANK.
- install new temperature sensor, supplied by other.





GENERAL NOTES:

- REFER TO FUEL PIPING SCHEMATIC ON M9 FOR DETAILS ON EQUIPMENT CONNECTIONS, PIPE DIMENSIONS, FITTINGS AND COMPONENTS.
- 2. REFER TO SECTION 21 05 01 FOR INSTRUCTIONS ON

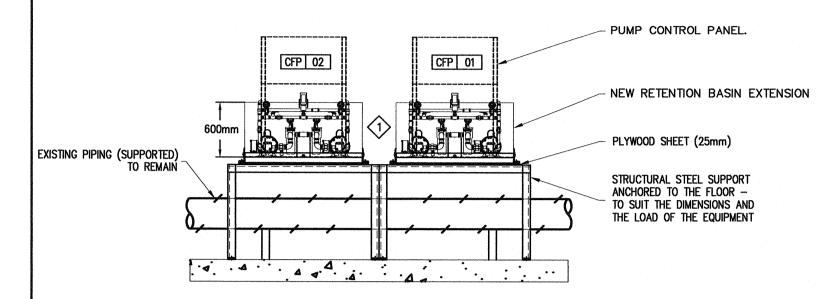
DRAWING NOTES:

SYSTEM SHUT DOWNS.

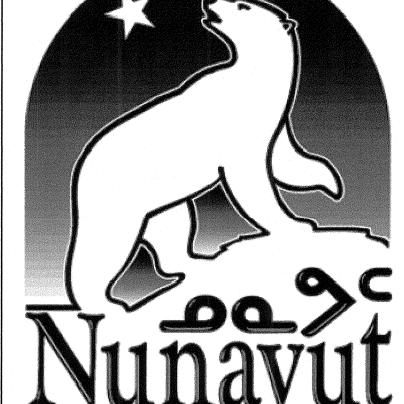
FOR DETAILS.

- FABRICATE SUPPORT TO ALLOW THE INSTALLATION OF NEW DUPLEX FUEL PUMP (CFP) SETS 01 AND 02 ABOVE EXISTING WATER PIPE. REFER TO 3/M5
- NEW CFP-01 AND CFP-02 SUPPLIED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS.
- FABRICATE RETENTION BASIN EXTENSION, 600mm HIGH. REFER TO 3/M5 AND SECTION 23 11 13 FOR DETAILS.
- NEW AUTOMATIC FUEL OIL FILTRATION SYSTEM SUPPLIED BY OTHER, INSTALLED BY MECHANICAL
- 5 NEW DAY TANK SUPPLIED BY OTHER, INSTALLED BY MECHANICAL CONTRACTOR.
- 6 NEW GENERATOR.
- OUTDOOR FUEL TANK SUPPLIED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS
- 8 INSTALL FUEL SUPPLY AND RETURN PIPING TO BOILERS SUSPENDED FROM CEILING.
- DAYOUT SHOWN FOR CLARITY. INSTALL FUEL SUPPLY AND RETURN PIPING TO GENERATOR ALONG THE WALL.
- CONNECT FUEL SUPPLY AND RETURN PIPES TO GENERATOR SUPPLY AND RETURN LINES.
- INSTALL OVERFLOW PIPES FROM DAY TANKS TO MAIN TANK WITHOUT ANY TRAPS OR SAGS.
- 12 PLUG ALL UNUSED PORTS ON DAY TANK.
- LAYOUT SHOWN FOR CLARITY. INSTALL FUEL SUPPLY PIPES FROM CFP-01 AND CFP-02 ALONG
- TANK LEVEL METER DISPLAY PANEL. CONNECT TO CFT-01, CONDUIT BY DIV. 26.

FABRICATE RETENTION BASIN EXTENSION.
NEW EXTENSION SHALL BE COMPLETELY
LEAK PROOF. REFER TO SPECIFICATIONS
FOR DETAILS.



3 CHAR LAKE - FUEL PUMP INSTALLATION DETAIL N.T.S.

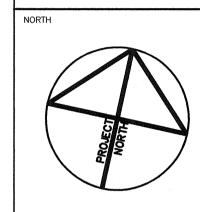


PERMIT TO FRACTICE WOOD BANANI BOUTHILL THE PARIZEAU INC.

Signature 07-SEP-2010

PERMIT NUMBER: P657

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GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT
MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL CHAR LAKE — FUEL SYSTEM

design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	M5
date	MAY 2010	
scale	AS SHOWN	

CHAR LAKE — FUEL SYSTEM — NEW LAYOU

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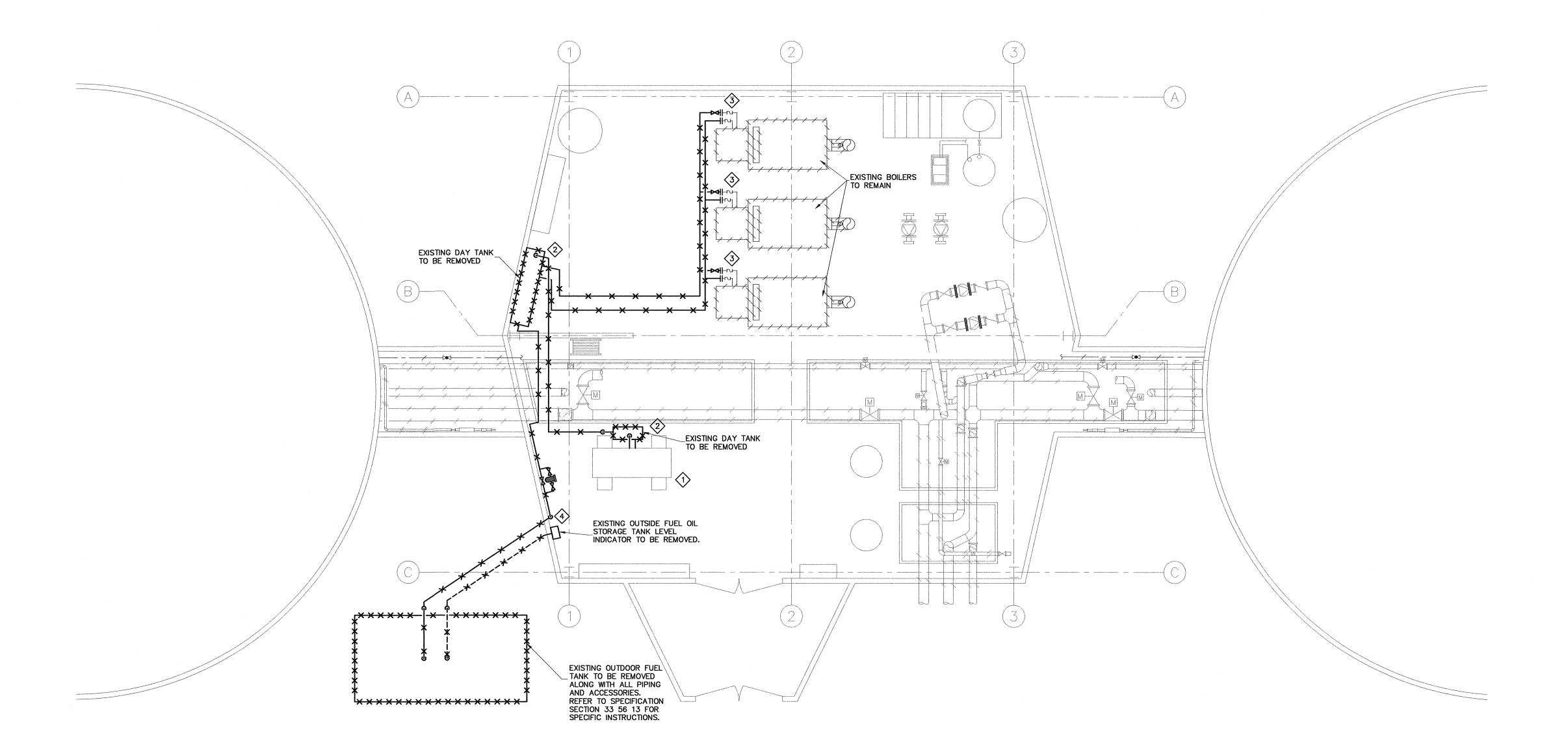
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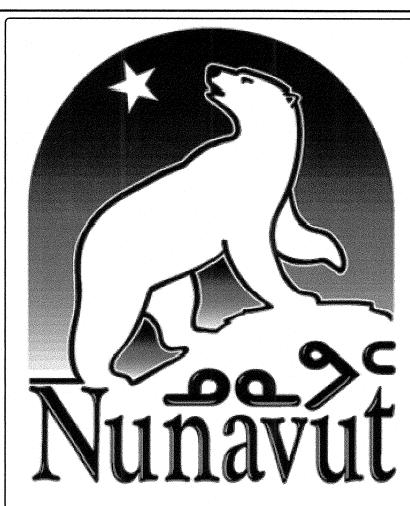


- DRAIN ALL FUEL IN SYSTEM PRIOR TO REMOVING ANY FUEL EQUIPMENT.
- REMOVE ALL EXISTING FUEL DISTRIBUTION SYSTEMS.
- 3. REFER TO SPECIFICATION SECTION 33 56 13 FOR INSTRUCTIONS ON FUEL EQUIPMENT REMOVAL.
- 4. REFER TO SPECIFICATION SECTION 21 05 01 FOR INSTRUCTIONS ON SYSTEM SHUT DOWNS.

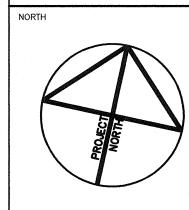
DRAWING NOTES:

- EXISTING GENERATOR TO BE REMOVED BY OTHERS.
- REMOVE EXISTING DAY TANK ALONG WITH ALL CONNECTED PIPING AND ACCESSORIES.
- DISCONNECT FUEL SUPPLY AND RETURN PIPES FROM BOILER.
- PATCH AND MAKE GOOD WALL OPENINGS.





Date _____07-SEP-2010 PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU



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Trow Associates Inc.

154 Colonnade Road South
Ottawa, Ont. K2E 7J5

Tel:(613)2
Fax:(613)2

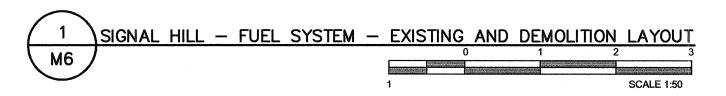
Tel:(613)225-9940 Fax:(613)225-7337

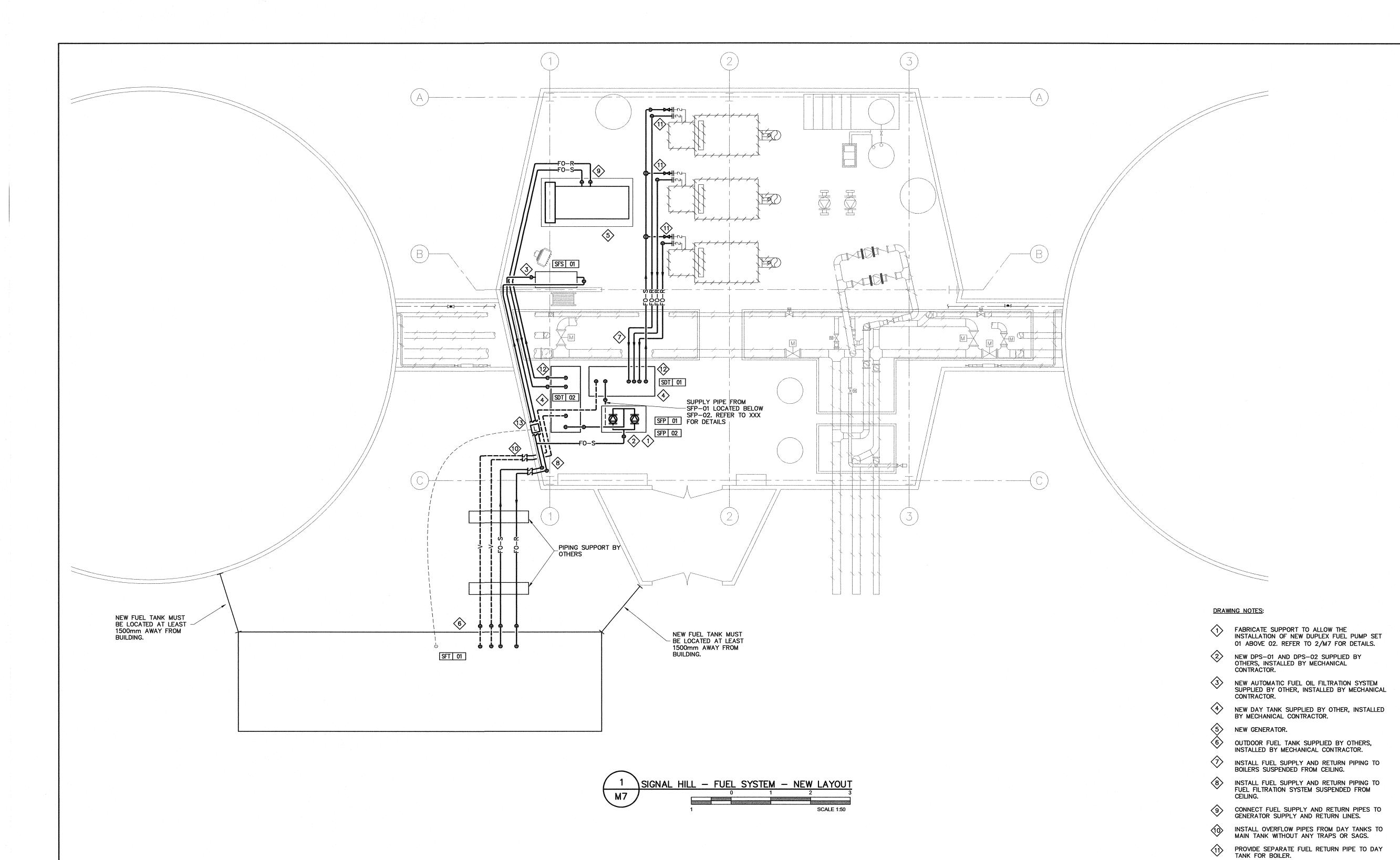
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

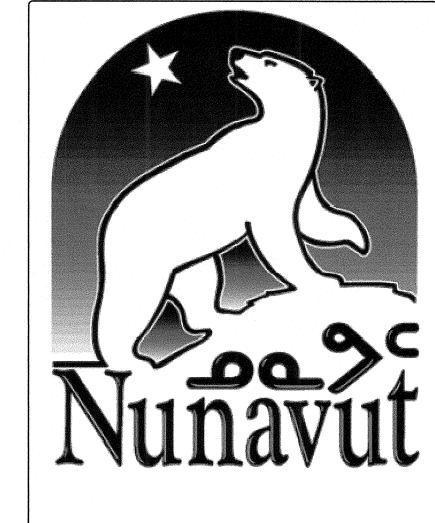
RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL SIGNAL HILL - FUEL SYSTEM

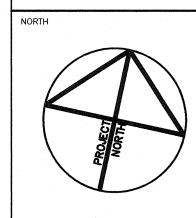
design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	M6
date	MAY 2010	
scale	AS SHOWN	





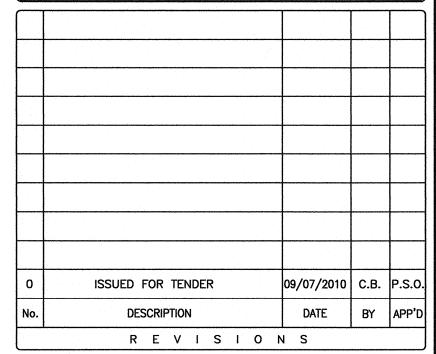


PERMIT TO PRACTICE MOOD BANANI BOUTHILLETTE PARIZEAN Date _____07-SEP-2010 PERMIT NUMBER: P657 The Association of Professional Engineers Geologists and Geophysicists of the NWT/NU



THE STAMP COLOUR IS RED FOR LICENSEE NWT /NU THE ORIGINAL SIGNED DRAWING

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PLUG ALL UNUSED PORTS ON DAY TANK.

TO CFT-01, CONDUIT BY DIV. 26.

TANK LEVEL METER DISPLAY PANEL. CONNECT

Trow Associates Inc.

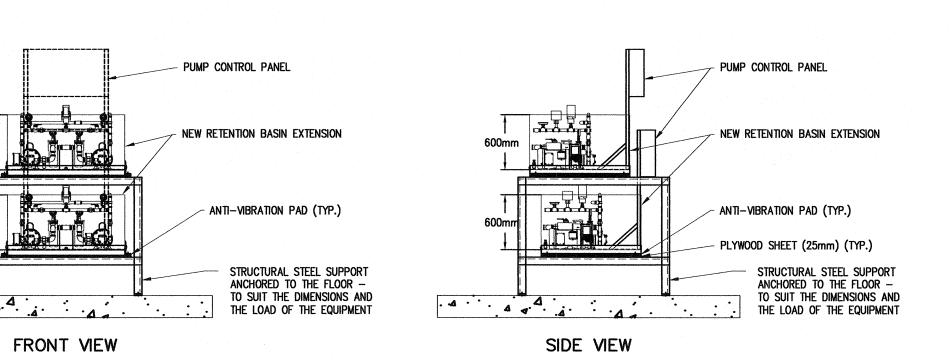
154 Colonnade Road South Tel:(613)2 Tel:(613)225-9940 Ottawa, Ont. K2E 7J5 Fax:(613)225-7337

GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

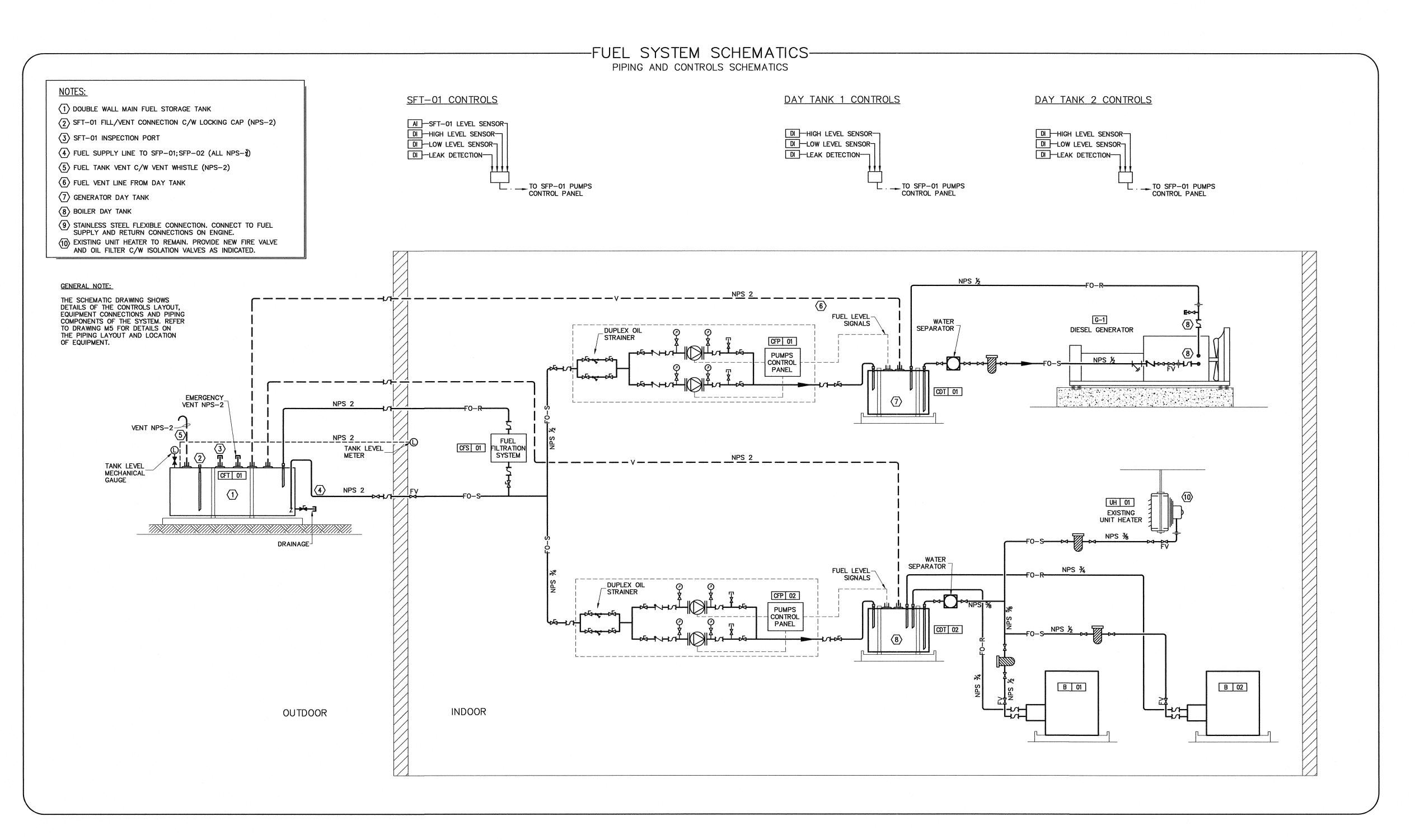
MECHANICAL SIGNAL HILL - FUEL SYSTEM

C.BOURGOGNE C.BOURGOGNE P.ST-ONGE MAY 2010 AS SHOWN

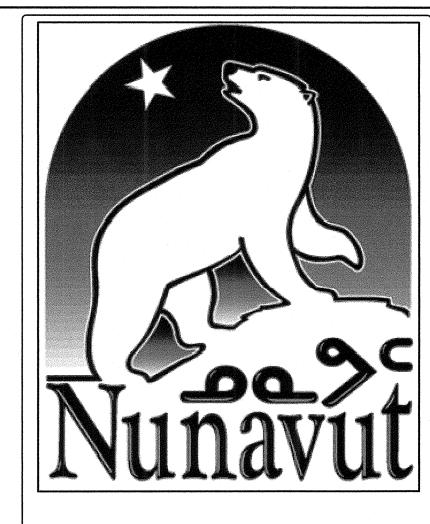


SIGNAL HILL - FUEL PUMP INSTALLATION DETAIL N.T.S.

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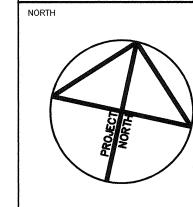


PERMIT TO PRACTICE WOOD BANANI SOUTHILETTE PARIZE U INC.

Signature 07-SEP-2010

PERMIT NUMBER: P657

The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU



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P. J. R. ST-ONGE

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Ottawa
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Ottawa:
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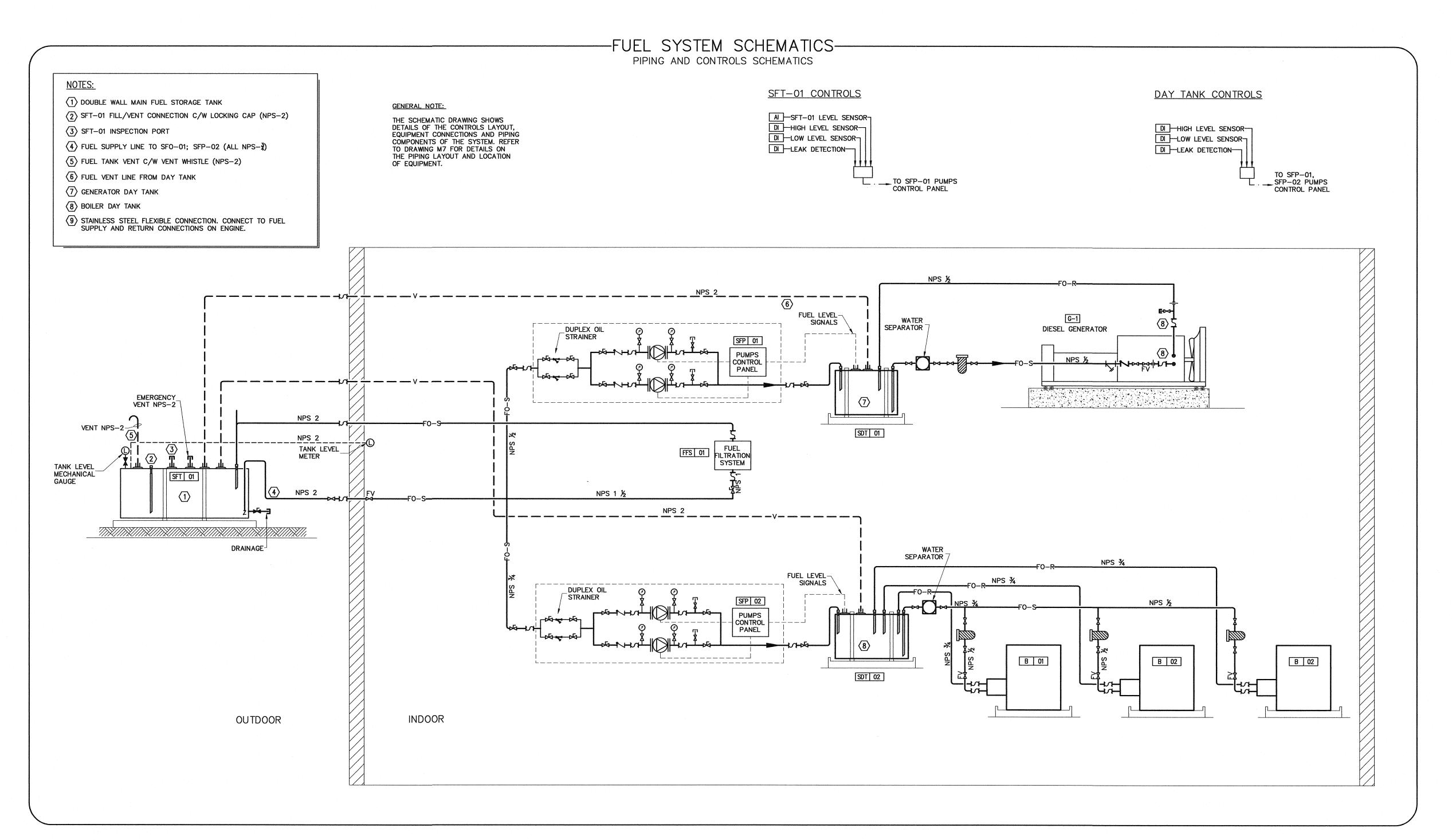
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

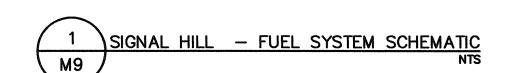
RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT
MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL
CHAR LAKE — FUEL SYSTEM
SCHEMATIC

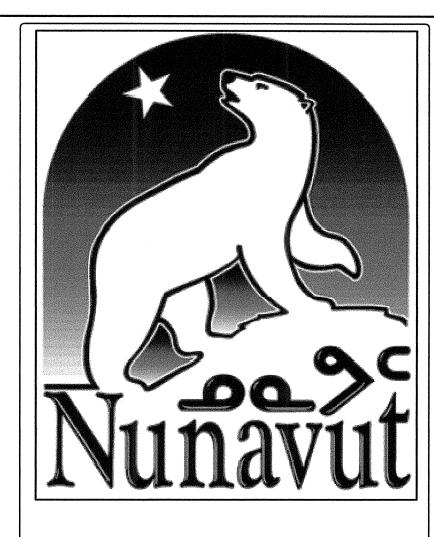
design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	MA
date	MAY 2010	IVIO
scale	AS SHOWN	

07, 2010

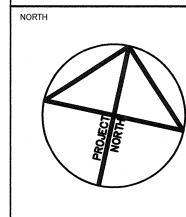


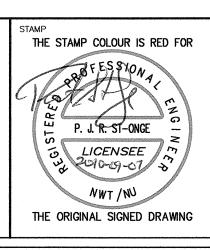


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PERMIT TO PRACTICE, 07-SEP-2010 PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU





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	REVISIONS		



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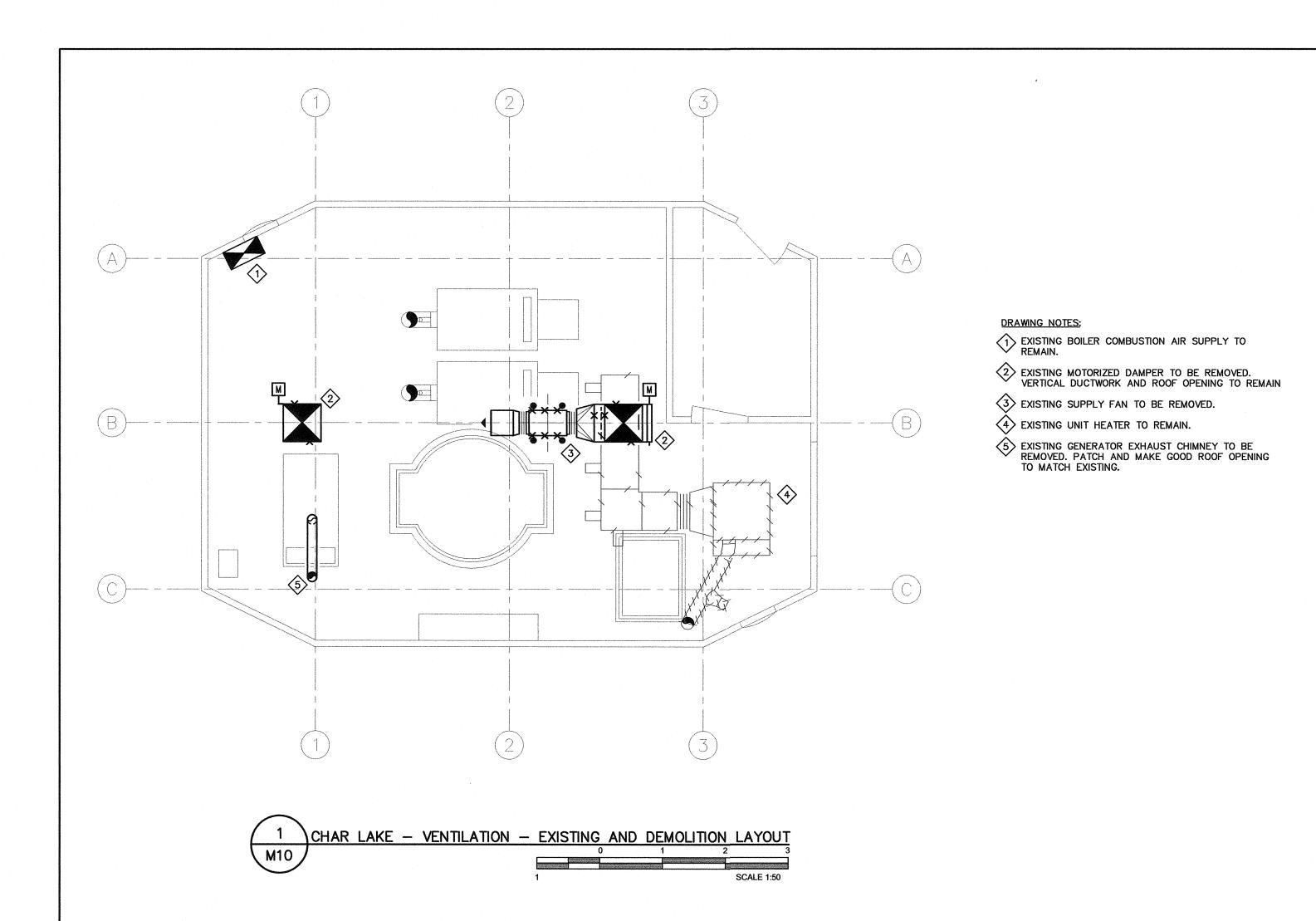
154 Colonnade Road South Ottawa, Ont. K2E 7J5

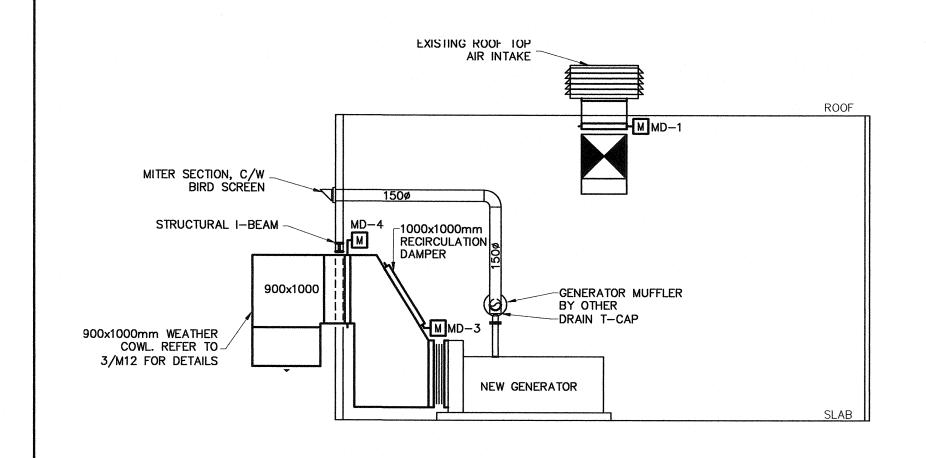
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

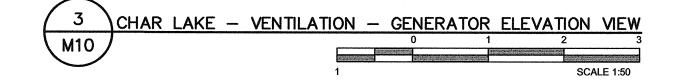
RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

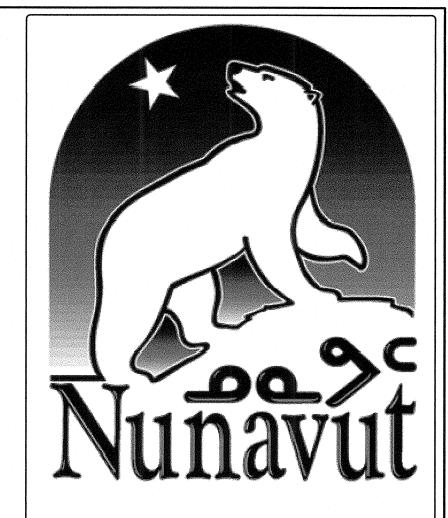
MECHANICAL SIGNAL HILL - FUEL SYSTEM SCHEMATIC

design by	C.BOURGOGNE	project no.
drawn by	C.BOURGOGNE	drawing no.
checked by	P.ST-ONGE	MO
date	MAY 2010	
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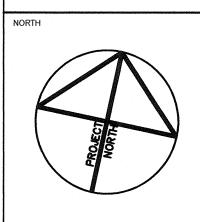
PERMIT TO PRACTICE WOOD BANANI BOUTHILLETTE PARIZEAU INC.

Signature

Date 07-SEP-2010

PERMIT NUMBER: P657

The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU



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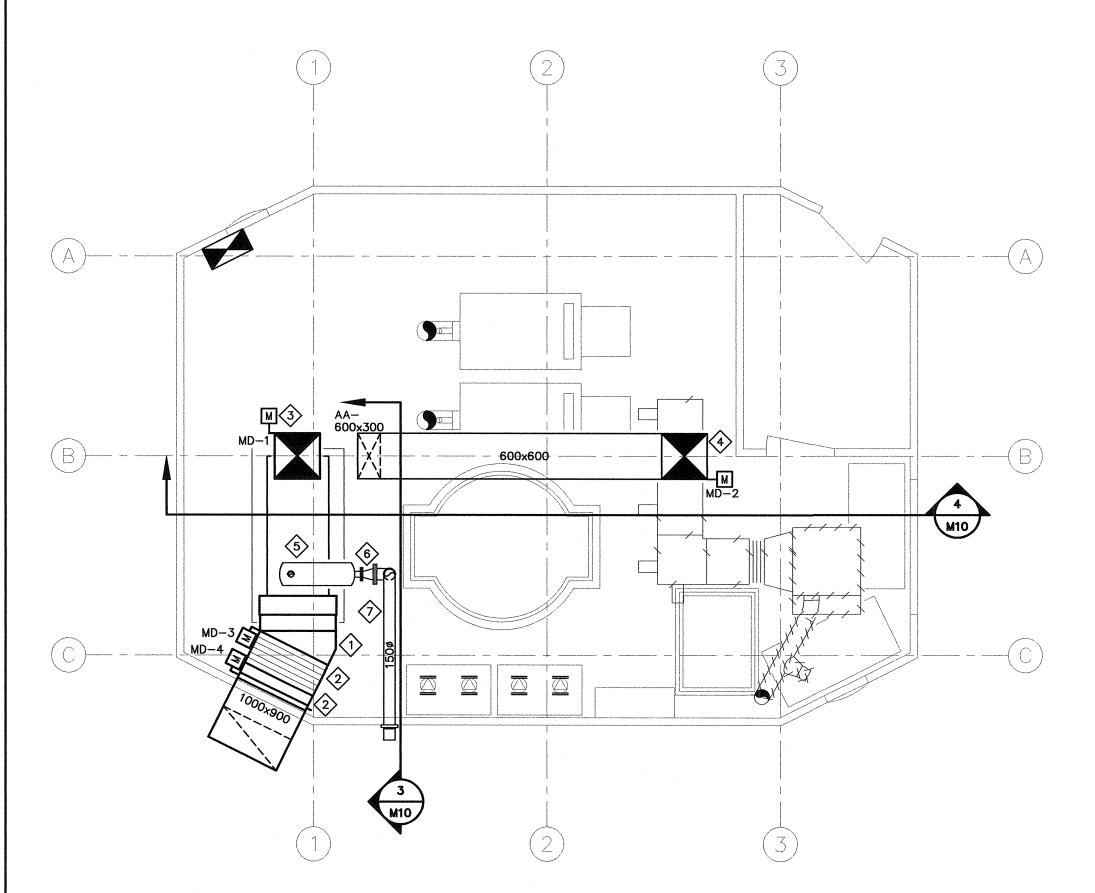
FESSION

P. J. R. ST-ONGE

NWT /NU

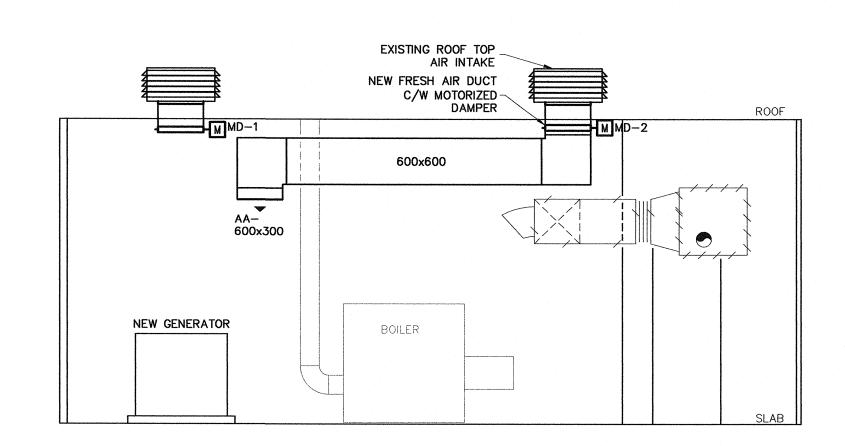
THE ORIGINAL SIGNED DRAWING

NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND / OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.



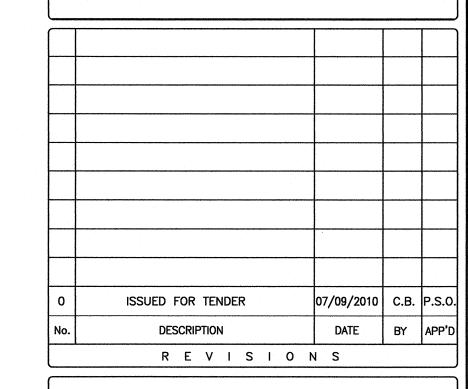
DRAWING NOTES:

- FABRICATE NEW DUCT ELBOW TO SUIT.
- PROVIDE NEW 1000x450mm DAMPER. REFER TO SPECIFICATIONS AND 3/M10 FOR DETAILS.
- PROVIDE NEW 600x600mm DAMPER. CONNECT TO EXISTING DUCT UP TO ROOF.
- PROVIDE NEW 600x600mm DAMPER C/W NEW DUCTWORK. CONNECT TO EXISTING DUCT UP TO ROOFTOP AIR INTAKE.
- 5 NEW GENERATOR MUFFLER BY OTHER.
- 6 PROVIDE CONCENTRIC INCREASER FROM 75ø TO 150ø.
- PROVIDE NEW PRE-FABRICATED ENGINE EXHAUST SYSTEM C/W ALL ACCESSORIES. REFER TO 23 35 16 FOR DETAILS.



4 CHAR LAKE — VENTILATION — FRESH AIR INLET ELEVATION VIEW

1 SCALE 1:50



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Consulting Engineers

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RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT
MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL
CHAR LAKE — VENTILATION

design by C.BOURGOGNE project no.

drawn by C.BOURGOGNE

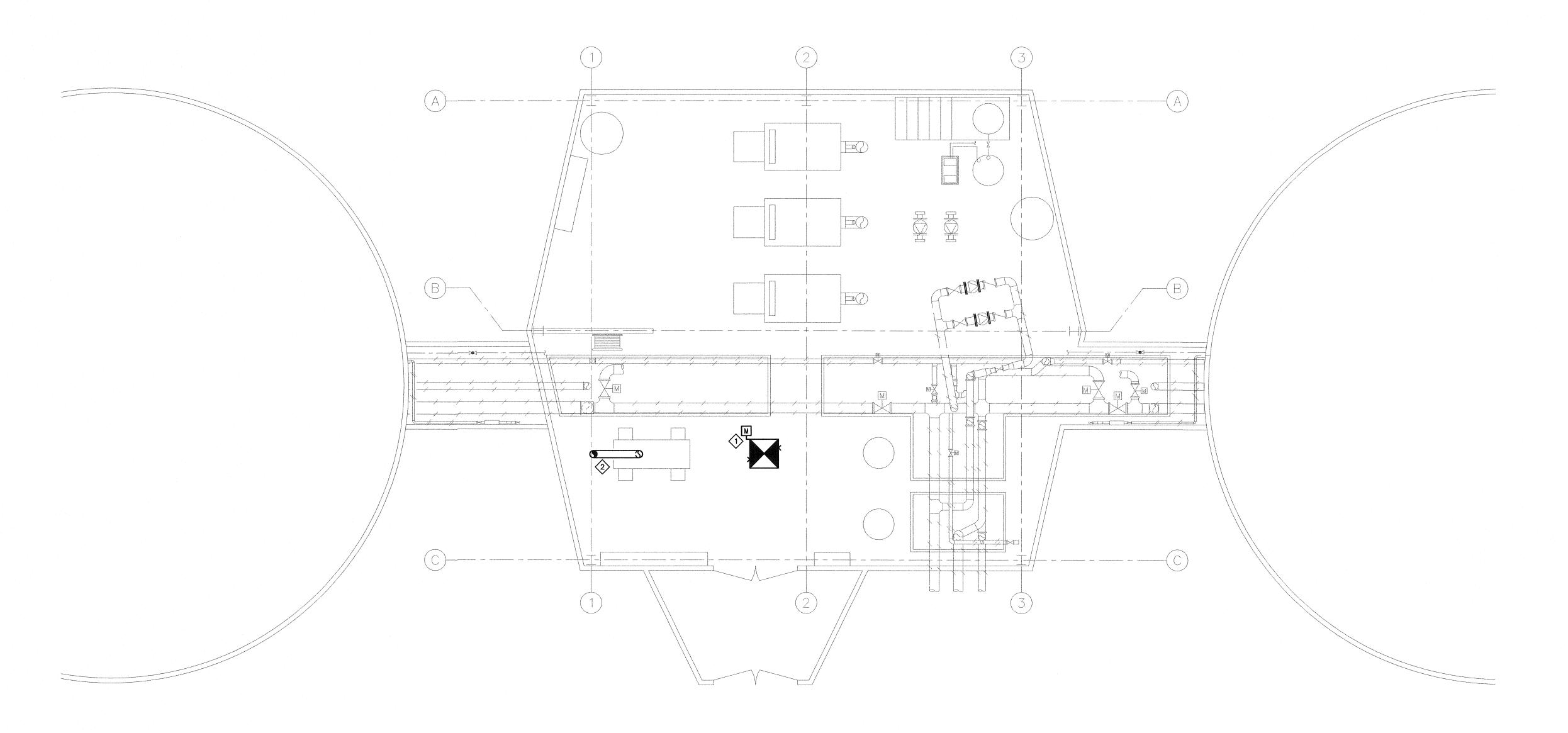
checked by P.ST-ONGE

date MAY 2010

scale AS SHOWN

CHAR LAKE — VENTILATION — NEW LAYOUT

0 1 2 3

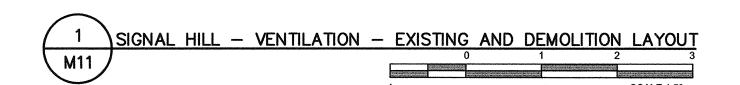


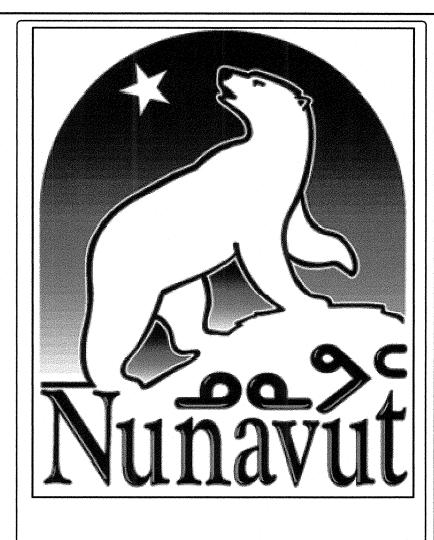
DRAWING NOTES:

EXISTING MOTORIZED DAMPER TO BE REMOVED.

VERTICAL DUCTWORK AND ROOF OPENING TO REMAIN

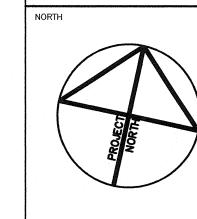
EXISTING GENERATOR EXHAUST CHIMNEY TO BE REMOVED. PATCH AND MAKE GOOD ROOF OPENING TO MATCH EXISTING.





PERMIT TO PRACTICE WOOD BANANI BOUTHILLETTE PARIZEAU Date 07-SEP-2010 PERMIT NUMBER: P657

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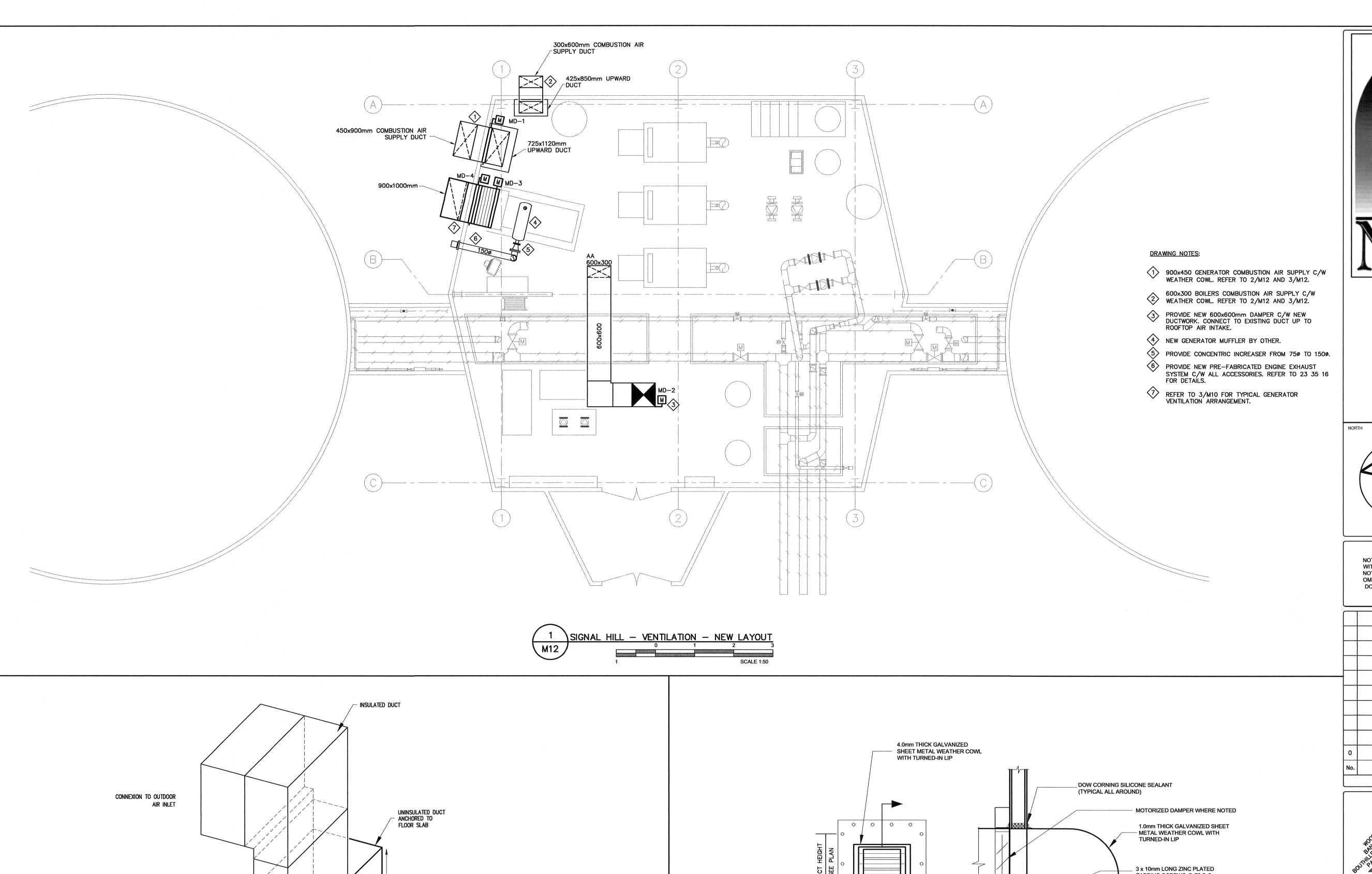
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

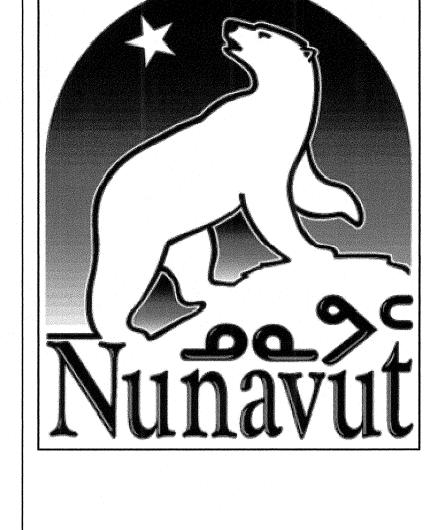
RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL SIGNAL HILL - VENTILATION

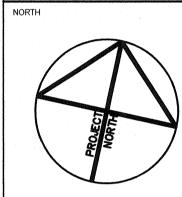
C.BOURGOGNE C.BOURGOGNE P.ST-ONGE M11 MAY 2010 AS SHOWN

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PERMIT TO PRACTICE WOOD BANANI BOUTHULETTE PARIZEAU II PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU



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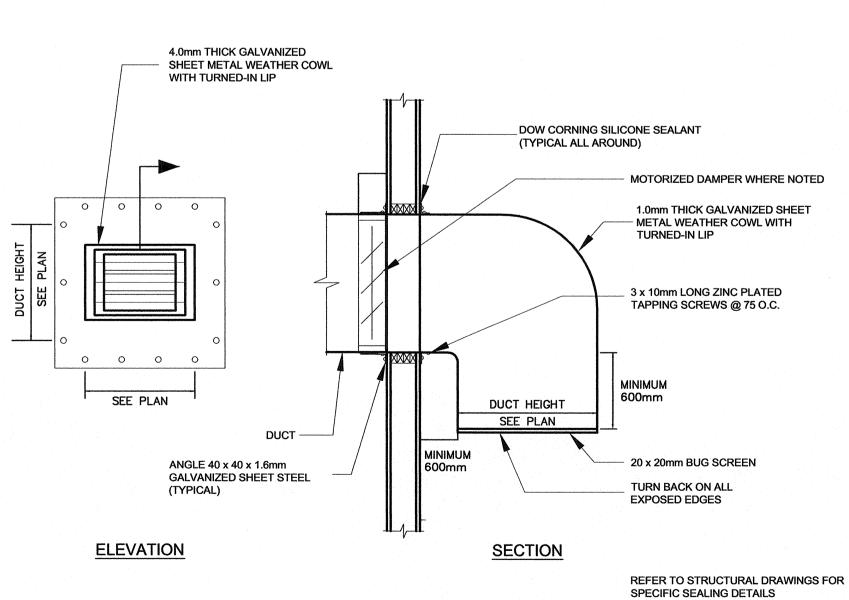
154 Colonnade Road South Tel:(613)2 154 Colonnade Road South Tel:(613)225-9940 Fax:(613)225-7337

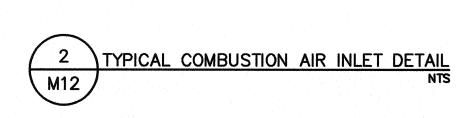
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL SIGNAL HILL - VENTILATION

C.BOURGOGNE project no. drawing no. C.BOURGOGNE P.ST-ONGE MAY 2010 AS SHOWN





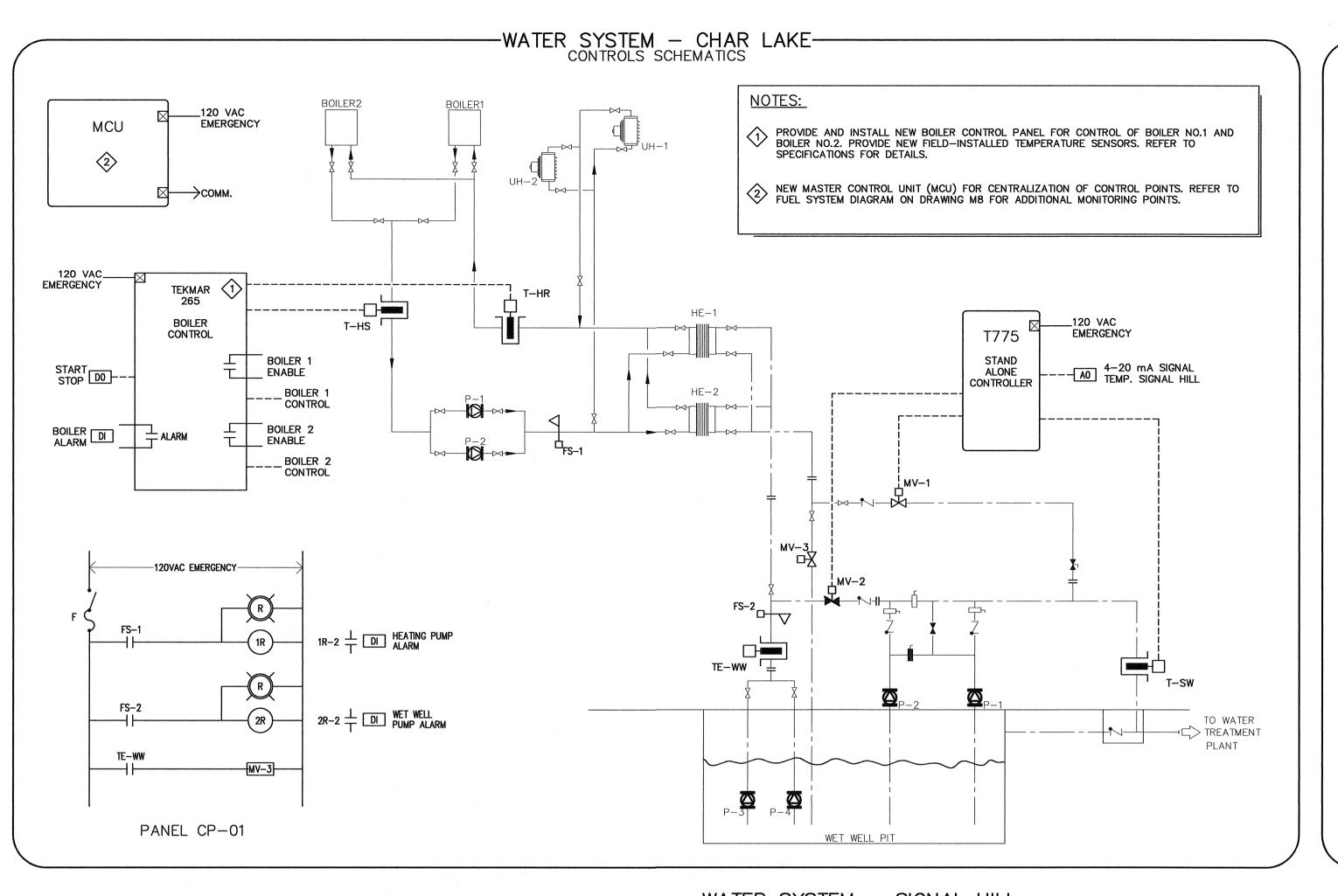
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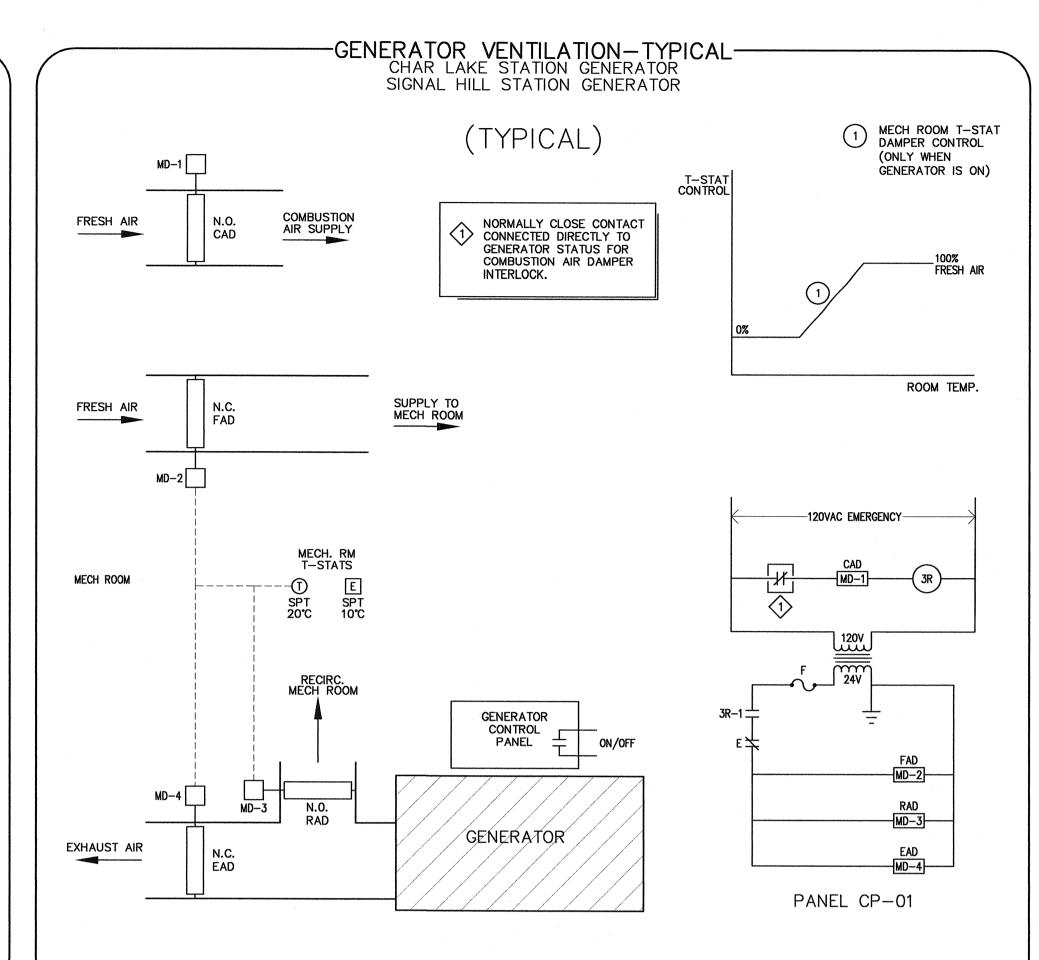
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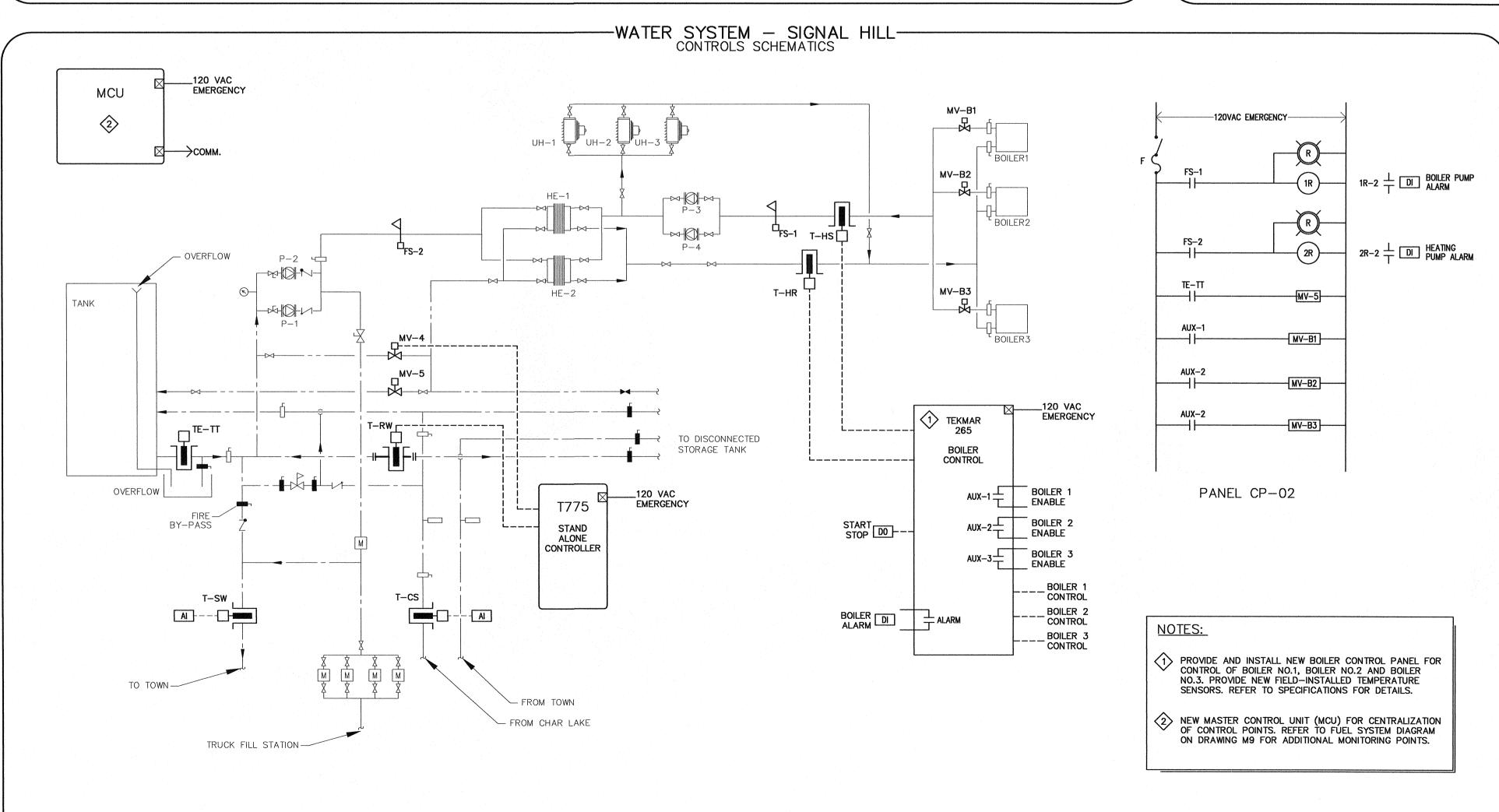
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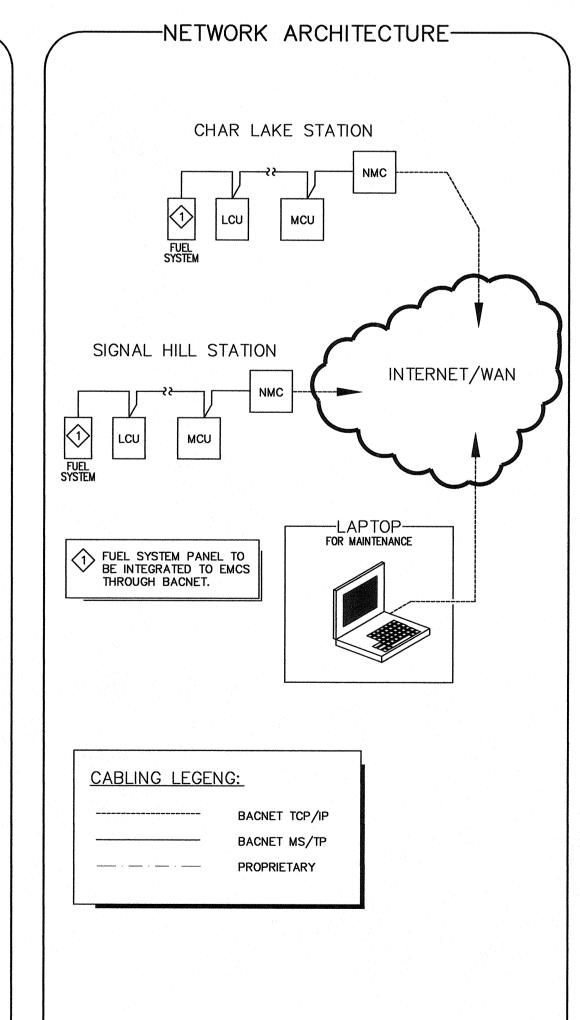
300mm

ABOVE FINISHED FLOOR



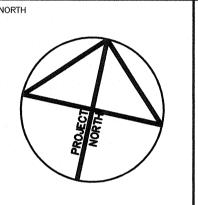








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Ottawa, Ont. K2E 7J5

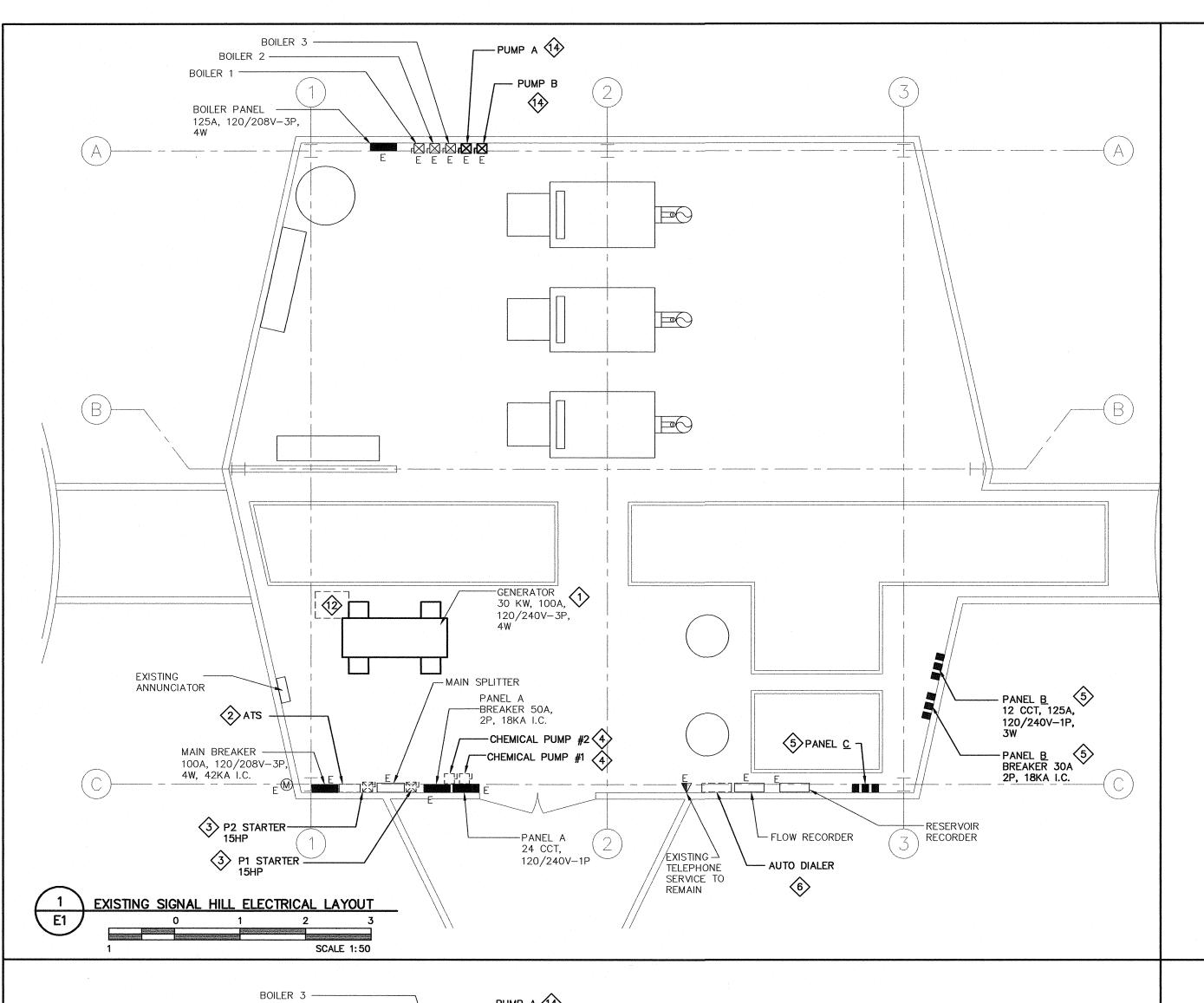
GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

MECHANICAL CONTROL SCHEMATICS

L.PELLERIN project no. drawing no. L.PELLERIN P.ST-ONGE SEPT 2010 NOT TO SCALE

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EXISTING -

TELEPHONE

SERVICE TO REMAIN

-RESERVOIR

RECORDER

- FLOW RECORDER

NEW AUTO 6

SPLITTER

3 NEW P2 STARTER

15HP

SCALE 1:50

3 NEW P1 STARTER

-PANEL A 8 9 10

24 CCT,

BREAKER / 50A,

2P, 18KA I.C.

PANEL A

120/240V-1P

ſŒ-II (ĵ)

EXISTING

NEW CONTROL PANEL CP-02

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ANNUNCIATOR

NEW ATS 150A, 240V, ___ 60HZ 3P, 4W

MAIN BREAKER -

4W, 42KA I.C.

100A, 120/208V-3P,

GENERAL NOTES:

WIRING TO SUIT.

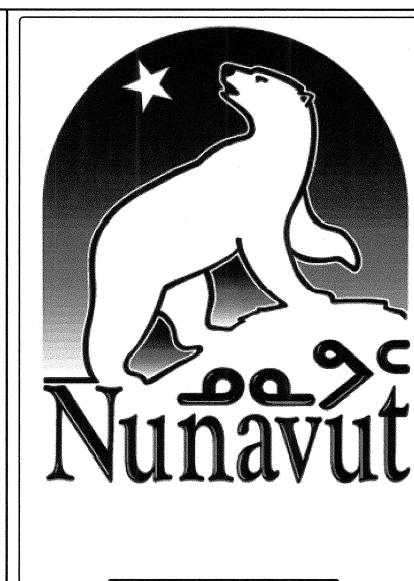
1. THE MAXIMUM ALLOWED SHUTDOWN PERIOD IS 2 HOURS PER DAY, CONTRACTOR TO PROVIDE SHUTDOWN SCHEDULE FOR ENGINEER APPROVAL PRIOR TO PERFORMING ANY SHUTDOWNS.

NOTES:

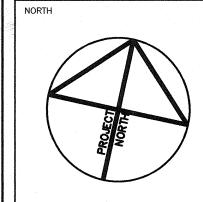
- CONTRACTOR TO INSTALL NEW 50KW GENERATOR, TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING GENERATOR
- CONTRACTOR TO INSTALL NEW 225A ATS, TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING ATS, CONNECT GENERATOR NEUTRAL WITH NORMAL POWER SYSTEM NEUTRAL.
- CONTRACTOR TO PROVIDEL NEW 15HP, 30, 208V, SOFT START MAGNETIC STARTER. CONTRACTOR TO REMOVE AND RECYCLE EXISTING MAGNETIC STARTERS. PROVIDE CONDUIT AND WIRING CONNECTION TO EXISTING 15 HP PUMPS.
- CONTRACTOR TO REMOVE AND RECYCLE EXISTING UNUSED CHEMICAL PUMP DISCONNECTS.
- CONTRACTOR TO REMOVE AND RECYCLE EXISTING UNUSED PANEL B. BREAKER PANEL B. PANEL C AND METER BOX.
- PROVIDE NEW AUTO-DIALER TO MONITOR 8 INPUTS AND POWER STATUS. UNIT MUST BE EQUIPPED WITH 24 HOUR BATTERY BACKUP. COORDINATE INPUTS WITH MECHANICAL CONTRACTOR, CONNECT TO EXISTING TELEPHONE SERVICE. CONTRACTOR TO REMOVE AND RECYCLE EXISTING AUTO-DIALER. REUSE EXISTING
- PROVIDE NEW 15A, 3P, 10KA I.C. SQUARE D BREAKER IN BOILER PANEL. PROVIDE 3 #12 +#12 BND 3 PHASE CONNECTION TO BOILER FUEL PUMP AND GENERATOR FUEL PUMP FROM BOILER PANEL.
- PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN PANEL A. PROVIDE 2 #12 + #12 BND SINGLE PHASE CONNECTION TO FILTRATION PUMP.
- PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN PANEL A. PROVIDE 2 #12 +#12 BND SINGLE PHASE CONNECTION TO GLYCOL PUMP.
- PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN PANEL A. PROVIDE 2 #12
- + #12 BND SINGLE PHASE CONNECTION TO CONTROL PANEL. PROVIDE 2 #12 + #12 BND IN 21mm CONDUIT, DIRECT CONNECTION TO $\underline{MV-B1}$, $\underline{MV-B2}$, $\underline{MV-B3}$, $\underline{MV-B5}$ AND $\underline{TE-TT}$.
- CONTRACTOR TO INSTALL NEW BATTERY CHARGER. CONTRACTOR TO REMOVE AND RECYCLE EXISTING BATTERY CHARGER. REUSE EXISTING CIRCUIT.
- PROVIDE 53mm GRC CONDUIT FROM LEVEL METER TO EXTERIOR FUEL STORAGE TANK. COORDINATE EXACT LOCATION WITH DIVISION 23, ALLOW FOR 23 METERS.

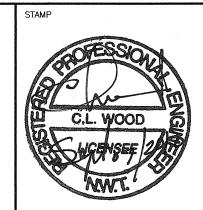
REWIRE EXISTING 3HP PUMP A AND PUMP B AS INDICATED. EXTEND CONDUIT AND

	LEGEND
SYMBOL	DESCRIPTION
	300mm x 1200mm FLUORESCENT FIXTURE
ss ⊠	SOFT START STARTER
C	DISCONNECT SWITCH
Ř	MAGNETIC STARTER
0	DIRECT CONNECTION
С	CONTACTOR
	SPLITTER
\boxtimes	TRANSFORMER
	BREAKER PANEL
(0X0)	QUAD RECEPTACLE
盐	DOUBLE GANG SWITCH
生	SINGLE GANG SWITCH
×	DIRECT CONNECTION
	AUTOMATIC TRANSFER SWITCH
	CIRCUIT BREAKER
⊗	HYDRO METER
	TRANSFORMER
Q	EMERGENCY DIESEL GENERATOR
1>	REFER TO NOTE 1
A	FIXTURE TYPE 'A'
E	DENOTES EXISTING TO REMAIN
D	DENOTES EXISTING TO BE REMOVED
BND	BONDING CONDUCTOR

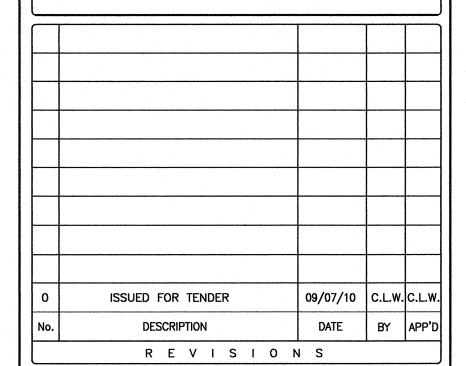


PERMIT TO PRACTICE wood banani bouthillette parizeau in 07-SEP-2010 PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.





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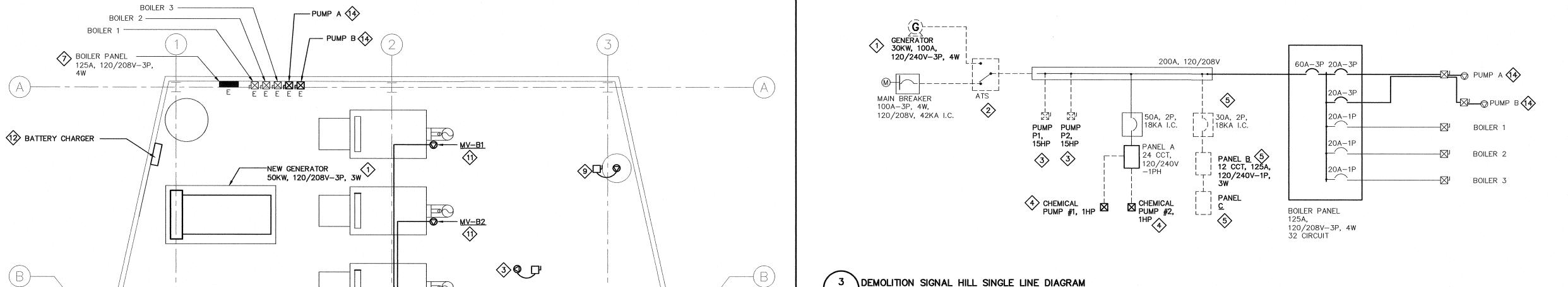
Trow Associates Inc. 154 Colonnade Road South Tel:(613)225-9940 Fax:(613)225-7337

GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

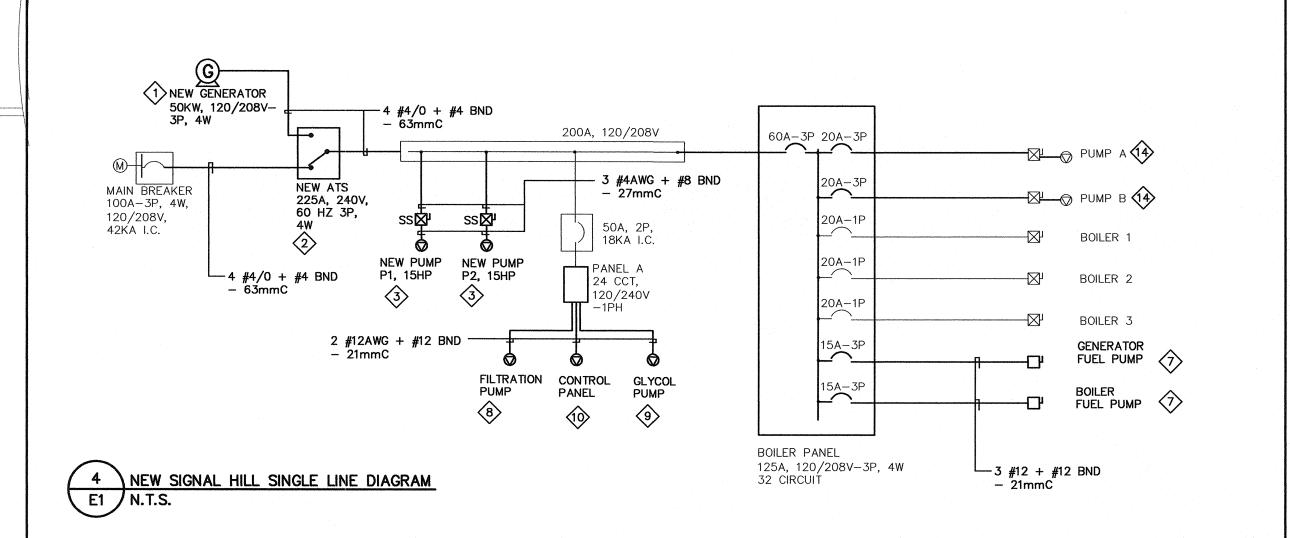
RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

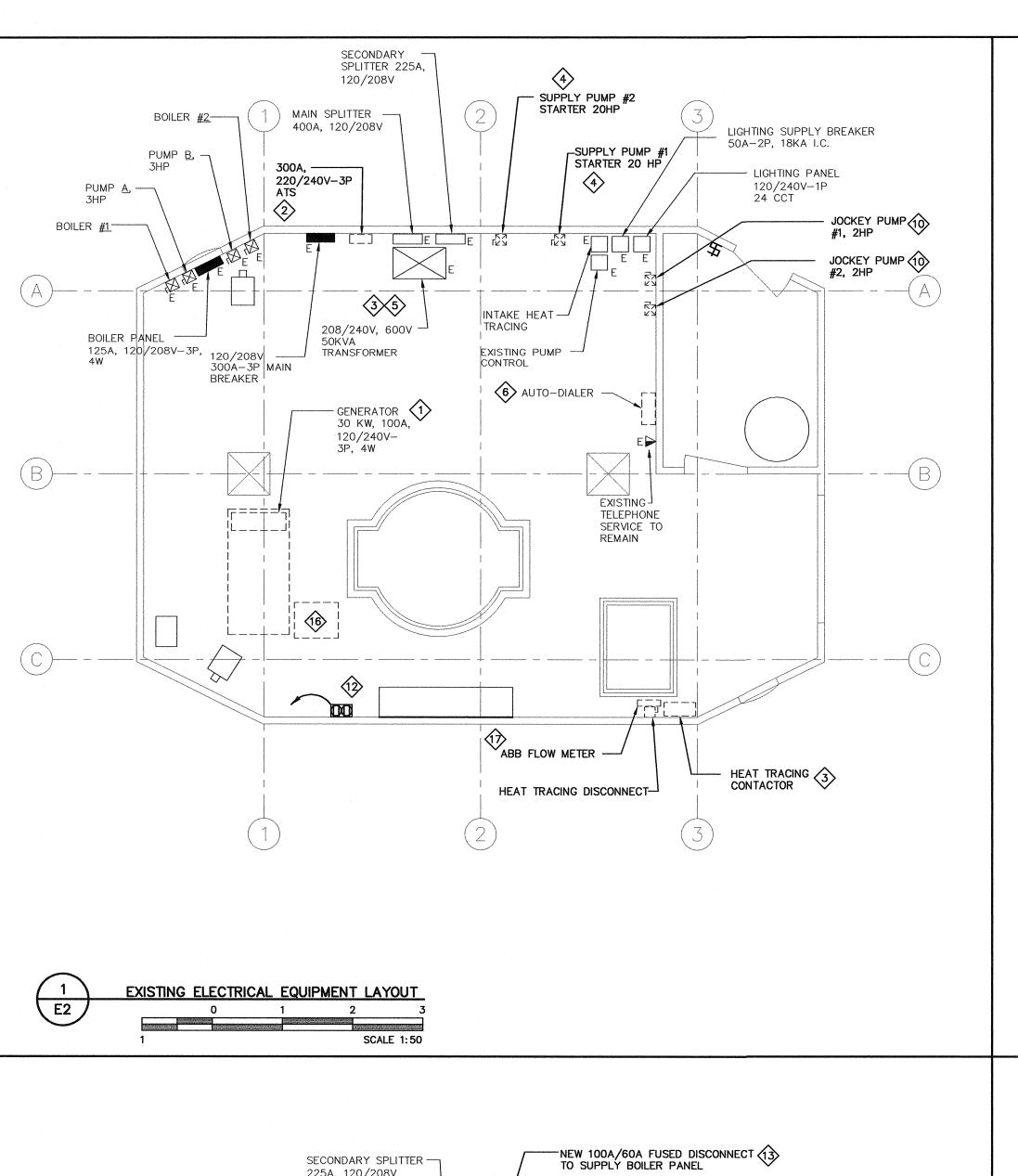
SIGNAL HILL ELECTRICAL DISTRIBUTION AND SINGLE LINE

design by	A.WADDELL	project no.
drawn by		drawing no.
didwir by	A.MIKHAIEL	Growing no.
checked by	C.WOOD	F1
date	MAY 2010	
scale	AS SHOWN	



3 DEMOLITION SIGNAL HILL SINGLE LINE DIAGRAM E1 N.T.S.

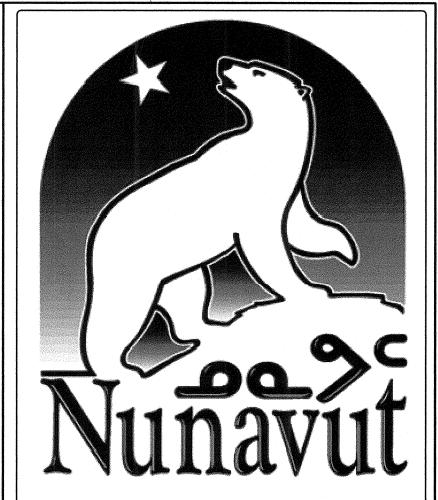






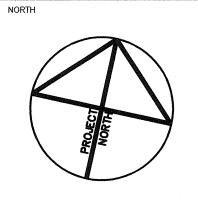
- 1. CONTRACTOR TO ATTACH LAMACOID NAME PLATE READING "DO NOT CONNECT ANY LOADS BETWEEN PHASE B AND NEUTRAL: 240V LINE VOLTAGE"
- 2. CONTRACTOR TO ADJUST ALL VOLTAGE RELAYS SO AS TO WORK IN THE RANGE BETWEEN 197 AND
- 3. THE MAXIMUM ALLOWED SHUTDOWN PERIOD IS 2 HOURS PER DAY, CONTRACTOR TO PROVIDE SHUTDOWN SCHEDULE FOR ENGINEER APPROVAL PRIOR TO PERFORMING ANY SHUTDOWNS.
- CONTRACTOR TO INSTALL NEW 50KW GENERATOR TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING 30kW GENERATOR.
- CONTRACTOR TO INSTALL NEW 225A ATS TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING 300A ATS. CONNECT GENERATOR NEUTRAL TO NORMAL POWER SYSTEM NEUTRAL.
- CONTRACTOR TO PROVIDE NEW 38 KW, 10, 600V, 2P, 100A HEAT TRACING CONTACTOR. HEAT TRACING TO BE CONNECTED TO EXISTING SPLITTER AS INDICATED. CONTRACTOR TO REMOVE AND RECYCLE EXISTING CONTACTOR, CONNECT NEW CONTACTOR TO EXISTING CONTROL THERMOSTAT.
- CONTRACTOR TO INSTALL NEW 20 HP SOFT STARTERS FOR PUMPS P1 AND P2, STARTERS TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING MAGNETIC
- 5 PROVIDE 53mm GRC CONDUIT FROM LEVEL METER TO EXTERIOR FUEL STORAGE TANK. COORDINATE EXACT LOCATION WITH DIVISION 23, ALLOW FOR 17 METERS.
- 6 PROVIDE NEW AUTO-DIALER TO MONITOR 8 INPUTS AND POWER STARTERS. UNIT MUST BE EQUIPPED WITH 24 HOUR BATTERY BACKUP. COORDINATE INPUTS WITH MECHANICAL CONTRACTOR, CONNECT TO EXISTING TELEPHONE SERVICE. CONTRACTOR TO REMOVE AND RECYCLE EXISTING AUTO-DIALER. REUSE
- PROVIDE NEW 15A, 3P, 10KA I.C. SQUARE D BREAKER IN BOILER PANEL. PROVIDE 3 #12 + #12 BND 3 PHASE CONNECTION TO BOILER FUEL PUMP AND GENERATOR FUEL PUMP FROM BOILER PANEL
- 8 PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN BOILER PANEL. NOT TO BE CONNECTED TO PHASE B. PROVIDE 2 #12 + #12 BND SINGLE PHASE CONNECTION TO FILTRATION PUMP FROM BOILER
- PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN BOILER PANEL. NOT TO BE CONNECTED TO PHASE B. PROVIDE 2 #12 + #12 BND SINGLE PHASE CONNECTION TO GLYCOL PUMP FROM BOILER
- CONTRACTOR TO INSTALL NEW 2 HP MAGNETIC STARTER FOR JOCKEY PUMPS, STARTERS TO BE SUPPLIED BY GOVERNMENT OF NUNAVUT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING MAGNETIC
- PROVIDE NEW 15A, 1P, 10KA I.C. SQUARE D BREAKER IN BOILER PANEL. NOT TO BE CONNECTED TO PHASE B. PROVIDE 2 #12 + #12 BND SINGLE PHASE CONNECTION TO CP1 CONTROL PANEL.
- RELOCATE EXISTING RECEPTACLES AS INDICATED. EXTEND WIRING AND CONDUITS.
- PROVIDE 120/208V, 60A/60AF-3P FUSED DISCONNECT FOR CONNECTION FROM SECONDARY SPLITTER TO EXISTING BOILER PANEL.
- PROVIDE 120/208V, 3P-4W, 200/150A-3P FUSED DISCONNECT WITH 10 KA I.C. FOR CONNECTION FROM PRIMARY SPLITTER TO NEW ATS
- REINSTATE EXISTING CONTROL CONNECTION TO PUMPS P1, P2, P3 AND P4 STARTERS FROM PUMP CONTROL PANEL.
- CONTRACTOR TO INSTALL NEW BATTERY CHARGER. CONTRACTOR TO REMOVE AND RECYCLE EXISTING BATTERY CHARGER. REUSE EXISTING CIRCUIT.
- CONTRACTOR TO CONNECT ABB DIGITAL FLOWMETER TO EXISTING CIRCUIT.. CONTRACTOR TO DISCONNECT EXISTING FLOWMETER.
- PROVIDE 2 #12 + #12 BND IN 21mm EMT CONDUIT, DIRECT CONNECTION TO MV-3 AND TE-WW.

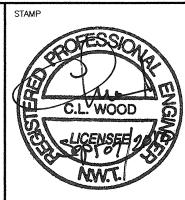
32 CIRCUIT



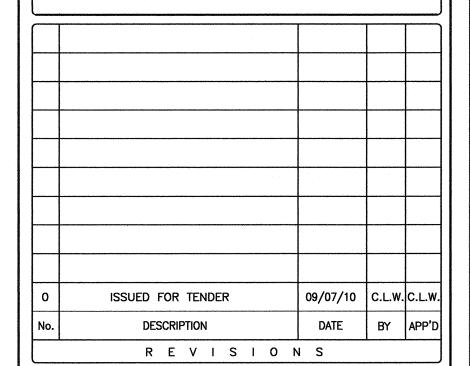
PERMIT TO PRACTICE WOOD BANANI BOUTHILLETTE PARIZEAU IN Signature __ Date _____07-SEP-2010

PERMIT NUMBER: P657 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.





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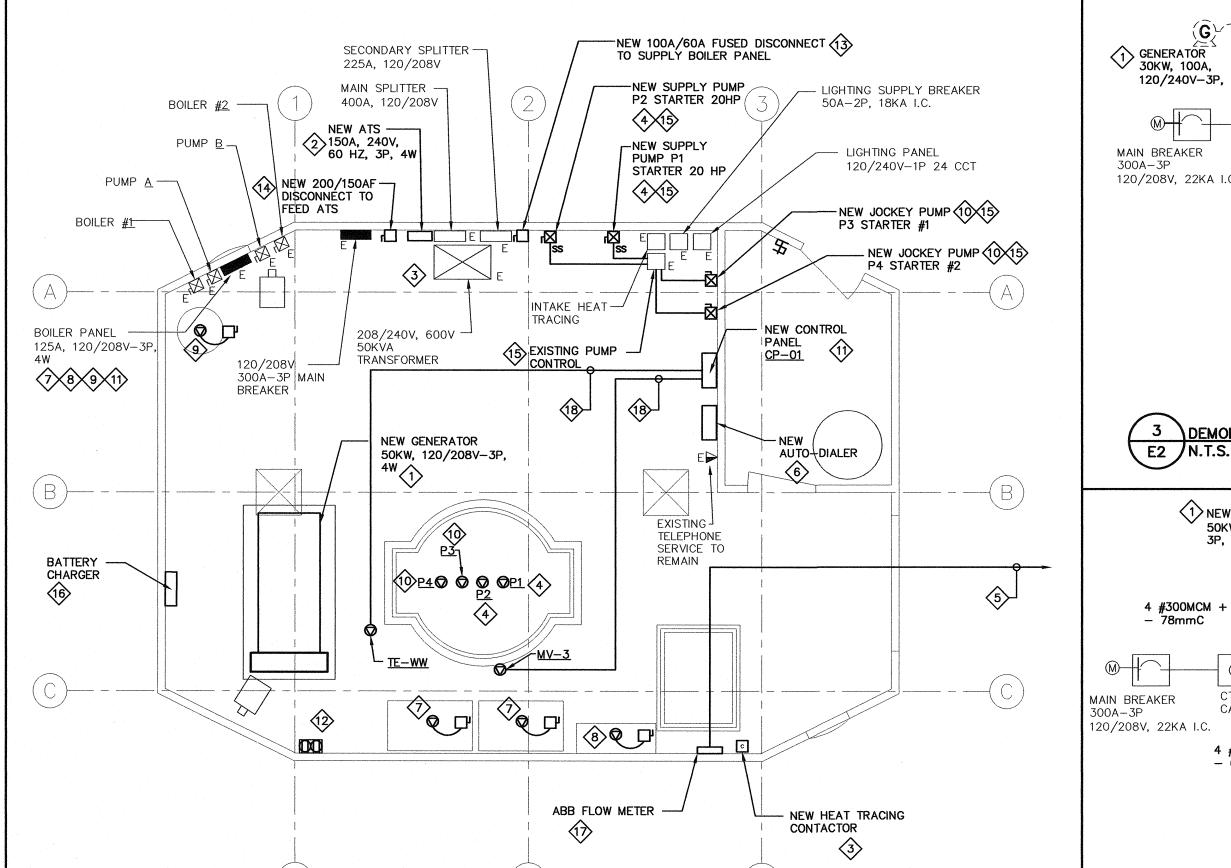
154 Colonnade Road South Tel:(613)225-9940 Ottawa, Ont. K2E 7J5 Fax:(613)225-7337

GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT PUMP HOUSE AND TREATMENT PLANT MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

CHAR LAKE ELECTRICAL DISTRIBUTION AND SINGLE LINE

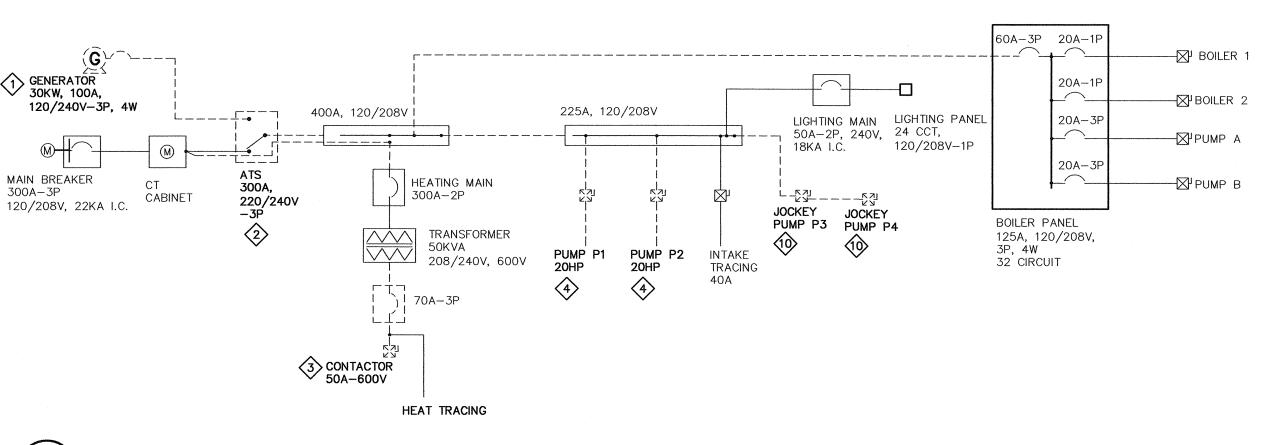
design by	A.WADDELL	project no.
drawn by	A.MIKHAIEL	drawing no.
checked by	C.WOOD	F2
date	MAY 2010	
scale	AS SHOWN	



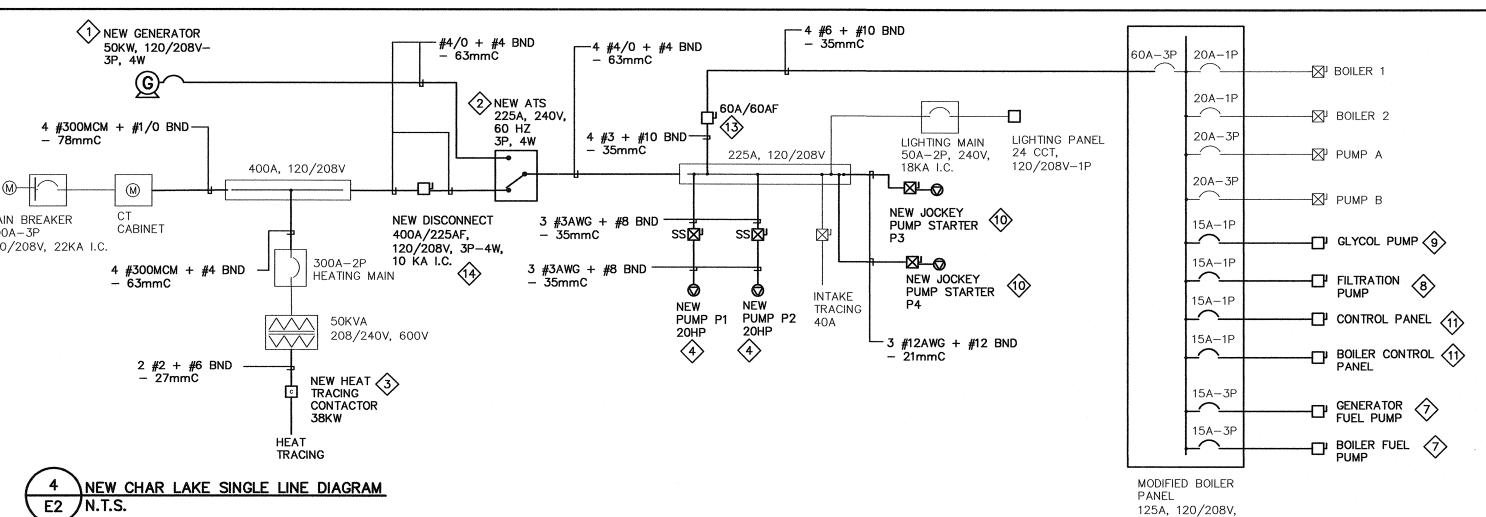
NEW ELECTRICAL EQUIPMENT LAYOUT

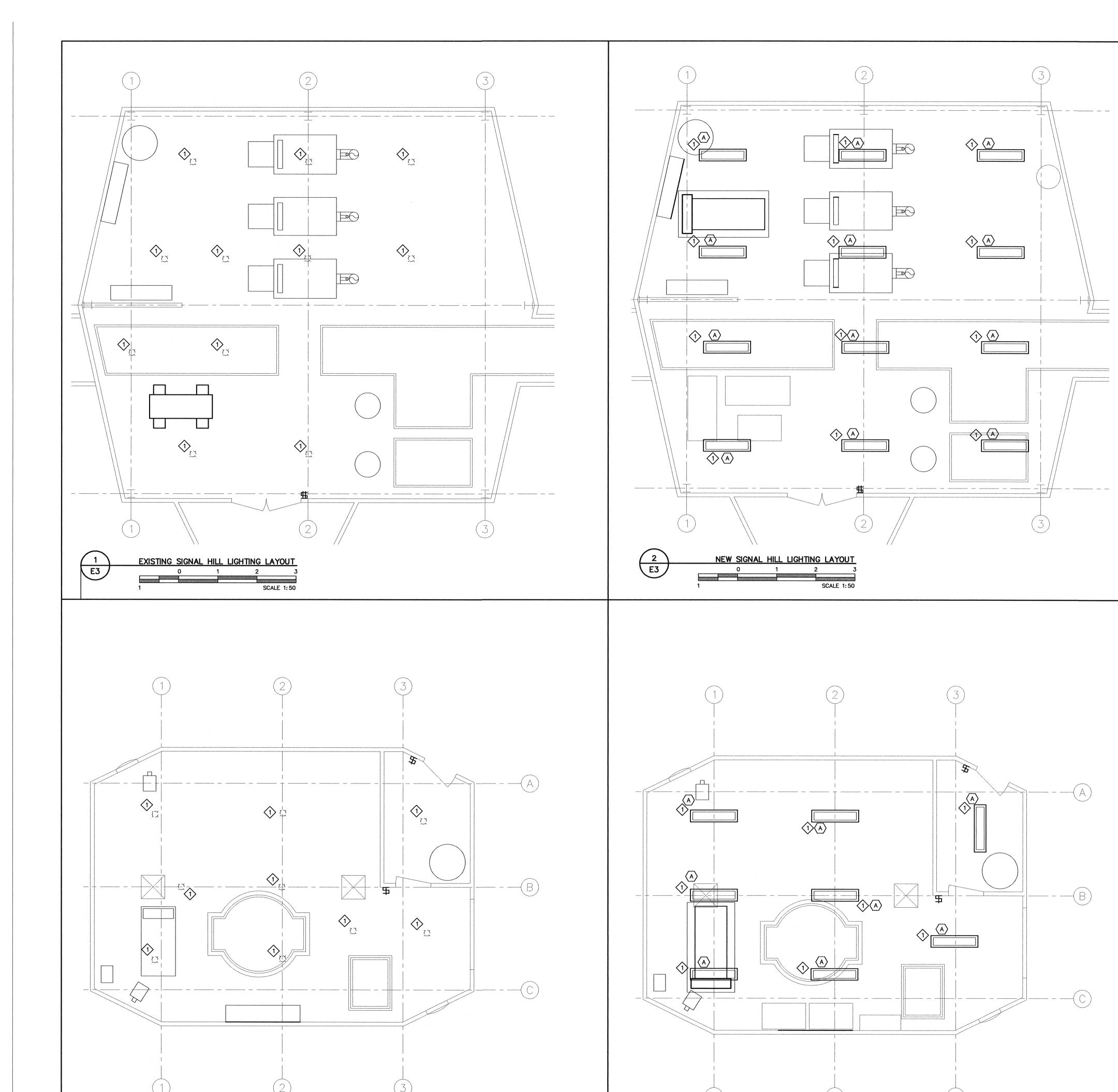
E2

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3 DEMOLITION CHAR LAKE SINGLE LINE DIAGRAM





E3

(3) E3

G: \2010\8010040\WBBP\Elec\2-Tender\8010_040_E3-Z00.dwg

	LEGEND
SYMBOL	DESCRIPTION
	300mm x 1200mm FLUORESCENT FIXTURE
¤	INCANDESCENT FIXTURE
⊠ _{ss}	SOFT START STARTER
마	DISCONNECT SWITCH
⊠r	MAGNETIC STARTER
0	DIRECT CONNECTION
	SPLITTER
\boxtimes	TRANSFORMER
	BREAKER PANEL
(00)	QUAD RECEPTACLE
盐	DOUBLE GANG SWITCH
生	SINGLE GANG SWITCH
\boxtimes	DIRECT CONNECTION
• •	AUTOMATIC TRANSFER SWITCH
	CIRCUIT BREAKER
	TRANSFORMER
<u>©</u>	EMERGENCY DIESEL GENERATOR
\Diamond	REFER TO NOTE 1
Ε	DENOTES EXISTING TO REMAIN
D	DENOTES EXISTING TO BE REMOVED
A	FIXTURE TYPE 'A'

FIXTURE SCHEDULE			
SYMBOL	TYPE	DESCRIPTION	
	(4)	1321mm x 194mm VAPOUR PROOF FLUORESCENT - 2 x 32W T-8 LAMPS - FIBREGLASS REINFORCED POLYESTER HOUSING - SMOOTH VIRGIN ACRYLIC LENS WITH MOLDED CAM ACTION LATCHES AND SILICONE GASKETS - 120V ELECTRONIC BALLAST - SURFACE MOUNTED - WIRE GUARD AND CHAIN SUPPORTS	

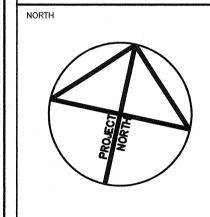
GENERAL NOTES:

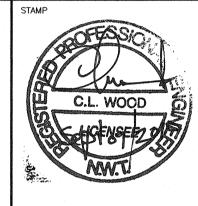
- ALIGN LUMINAIRES MOUNTED IN CONTINOUS ROWS TO FORM STRAIGHTS UNITERRUPTED LINES
- 2. ALIGN LUMINAIRES MOUNTED INDIVIDUALLY.

NOTES:

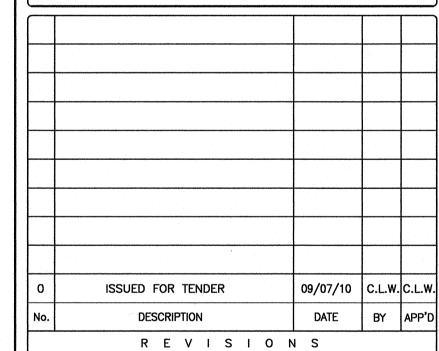
PROVIDE NEW INDUSTRIAL FLUORESCENT LIGHTING FIXTURES, LOCATIONS TO BE DETERMINED ON SITE. FIXTURES TO BE OF TYPE A, WITH 600mm SUSPENSION CABLING. RECONNECT LIGHTING TO EXISTING CIRCUIT. CONTRACTOR TO REMOVE AND RECYCLE EXISTING INCANDESCENTS.







NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND / OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.





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GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

RESOLUTE BAY, NUNAVUT
PUMP HOUSE AND TREATMENT PLANT
MECHANICAL & ELECTRICAL DISTRIBUTION UPGRADES

CHAR LAKE AND SIGNAL HILL LIGHTING PLANS

design by	A.WADDELL	F	project no.
drawn by	A.MIKHAIEL	d	Irawing no.
checked by	C.WOOD		F3
date	MAY 2010		LJ
scale	AS SHOWN		