

Operation & Maintenance Plan for
Naujaat Municipal Water Licence:
Water Supply Facilities
2022

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1.0 Site Description

Date this plan was prepared:

December 13, 2022

1.1 Location of the Water Supply Facility (WSF)

Municipality:

Chesterfield Inlet

Latitude:

66°33'50" N

Longitude:

86°15'10" W

Proximity to Town:

4.5km N

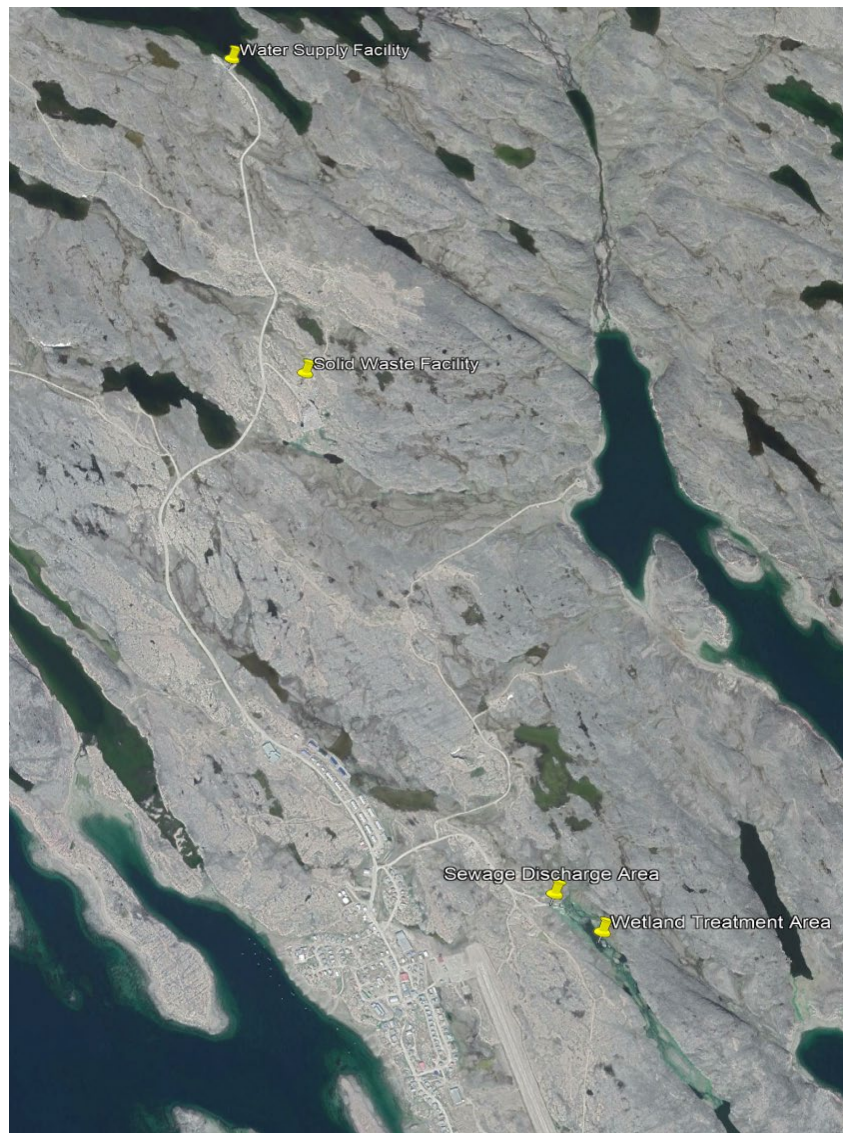


Figure 1 Naujaat Water Supply Facility Infrastructure

1.2 WSF Site Summary

Year of commissioning the WSF: 2016
Design life of the WSF: 2033

Site History:

The Naujaat community water system obtains water from an intake on Nuviq Luktujuk Lake, located approximately 4.5 kilometers north of the community. The watershed for Nuviq Luktujuk Lake is primarily located in undeveloped area, with no significant activities identified that would pose a risk to source water quality. Water is treated at the intake using cartridge filters and chlorine for disinfection. The treated water passes through a contact chamber for chlorine contact prior to truck fill and subsequent community deliveries. Trucked water delivery to water cisterns at homes and other buildings is the only method for water distribution used in Naujaat.

2.0 Staff

2.1 Staff

Role:	Senior Administrative Officer	Name:	Sandra Clark
Phone:	867-462-9952	Email:	saonaujaat@qiniq.com

Responsibilities: The SAO manages the municipal staff to ensure that:

- proper operation of the water supply system is carried out
- sampling and inspections are completed
- annual reporting to the Nunavut Water Board (NWB) is prepared by the Government of Nunavut Department of Community and Government Services (GN-CGS)

Role:	Trades Helper	Name:	Leo Itturiligak
Phone:	867-462-4093	Email:	litturiligak1@gov.nu.ca

Responsibilities: The foreman is responsible for:

- daily operations and maintenance of the WSF
- the sampling program at the monitoring stations
- maintaining signage at the WSF and monitoring stations
- annual decanting of the lagoon effluent into the adjacent wetland treatment area

Role: Water Truck Drivers
Phone: N/A

Name: Various
Email: N/A

Responsibilities: The water truck drivers fill truck for distribution of drinking water to the municipality. They also record and report the quantities of delivered water.

2.2 Training

Training records were last updated: 2020

Table 1 List of trainings obtained by staff

Staff member	GN Small Systems Course	GN Class I Systems Course	Other:
Adam Milorotok	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyril Kusugak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jeremy Itkilik	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.0 Health and Safety

All personnel working within the WSF must follow the *Nunavut Safety Act* and be made aware of potential health hazards. This is imperative so individuals make a conscious effort to perform all necessary safety procedures to protect themselves, their co-workers and family members at home.

4.0 Security and Control

Access Control of to the facility:

- Locks on doors

- Signage
- 450 m restricted land use development setback surrounding the WSF

5.0 Raw Water Sources

5.1 Raw Water Source

Raw water source fill system type: Direct from lake

Alterations to the natural water source have occurred due to the WTP:

None.

5.1.1 Primary Source

Name of primary raw water source:	Nuvik Laktujuq Lake
Type of raw water source:	Lake
Watershed Side:	2590 ha
Average annual quantity of water drawn:	44,152 m ³ /year
Maximum allowable withdrawal:	60,000 m ³ /year
Ice formation on the water source:	September
Ice breakup on the water source:	June or July

5.2 Operations

Overview of the operations process:

The following procedure is followed:

1. Untreated water from the lake is transferred by submersible pump to the water distribution vehicles through the truckfill station, at a rate of approximately 1,000 L/min (minimum recommended for fire protection)
2. All controls necessary for water withdrawal and truck filling are located in a control panel accessible to the truck driver from the outside of the building.
3. The pumphouse is powered by fuel from an onsite storage tank and has a standby generator. Both must be monitored daily.

5.3 Maintenance

Overview of the maintenance process:

1. The roadway and truck pad shall be maintained by snow clearing in the winter and grading in the summer and repaired as necessary.
2. Ditches and drainage channels at the Water Supply Facility shall be inspected during the summer for erosion and repaired as necessary.
3. The truckfill station, signage, and berms shall be inspected regularly and repaired or replaced as necessary.
4. This facility is owned and operated by the GN-CGS, and any issues should be reported to the Kivalliq municipal engineer immediately.
5. The water delivery program is managed by the Municipality and issues identified by truck drivers should be reported to the SAO immediately.

6.0 Water Treatment Process

A brief overview of the water treatment process:

Water is drawn in from the raw water reservoir adjacent to the WTP where it undergoes:

- Pre-chlorination: Chlorine is injected prior to the filtration process.
- Cartridge Filtration: The sequence of filters is 20-micron, followed by 5-micron, followed by 1-micron cartridges.
- Chlorine Disinfection: This is accomplished using the CT concept through a chlorine contact pipe.

Total annual water usage:	46,687 m ³
Water distribution method:	Trucked
Treated water storage:	None
Rate of truck-fill:	1000 L/min

7.0 Monitoring

Regulatory Inspection: The annual Crown Indigenous Relations and Affairs Canada (CIRNAC) inspection will take place accompanied by the licensee and/or with a licensee representative from GN-CGS. The inspection will be reviewed by a GN-CGS municipal engineer and submitted with the annual report.

Table 2 Licence requirements related to O&M of the water supply facilities

Requirements	Reported
Monthly and annual quantities of fresh water obtained from all sources	Annual report submitted to NWB
A summary of modifications and/or major maintenance work carried out on the WSF	Annual report submitted to NWB
A list of spills and unauthorized discharges related to the WSF.	Annual report submitted to NWB
A summary of any studies requested for the WTP and future planned studies planned	Annual report submitted to NWB
Volume of Potable Water Supply at Post River Monitoring Program Station WHA-1	Annual report submitted to NWB

Modifications or upgrades needed for the WSF:

None

Planned modifications or upgrades:

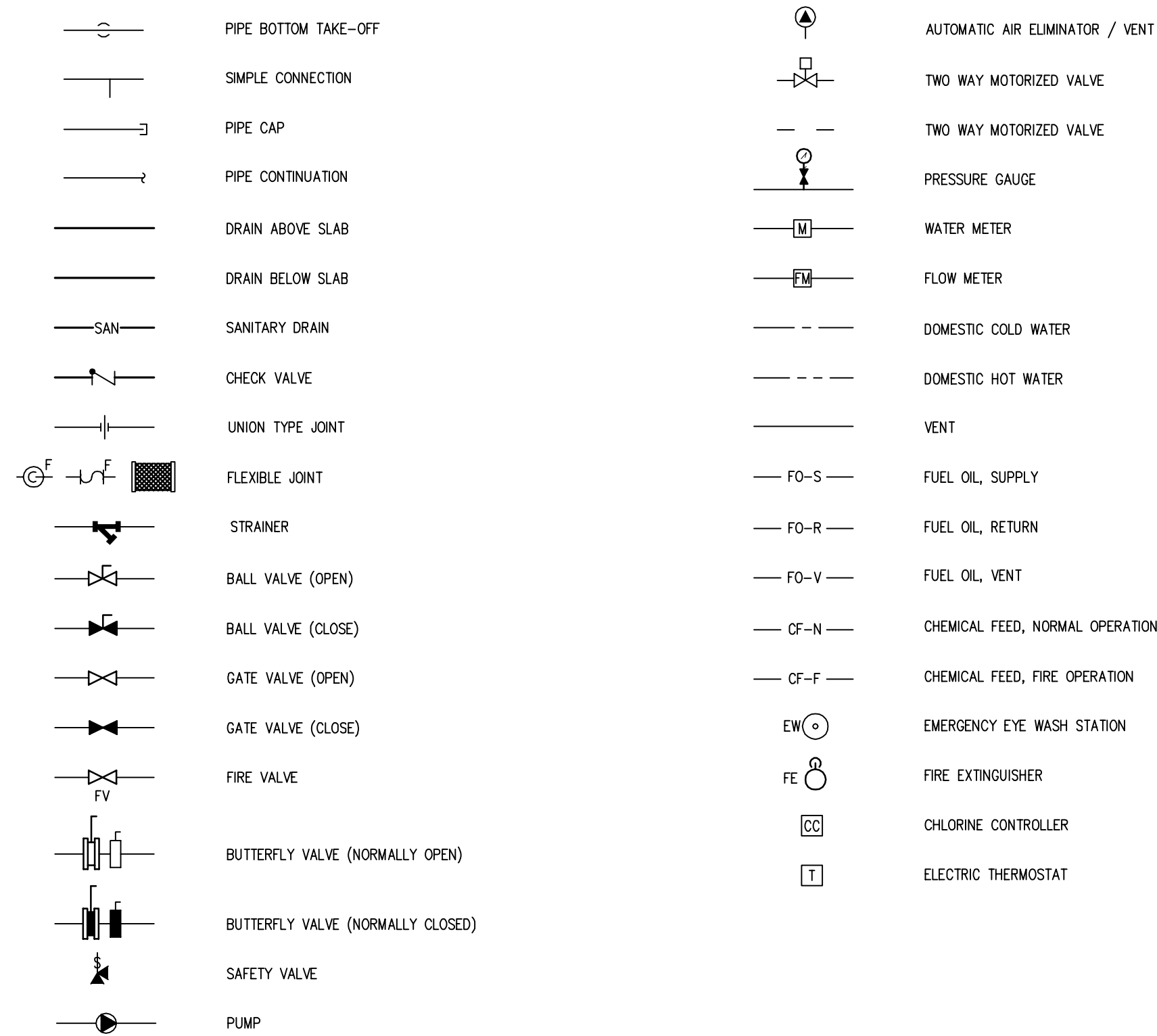
None

Additional Comments or Notes

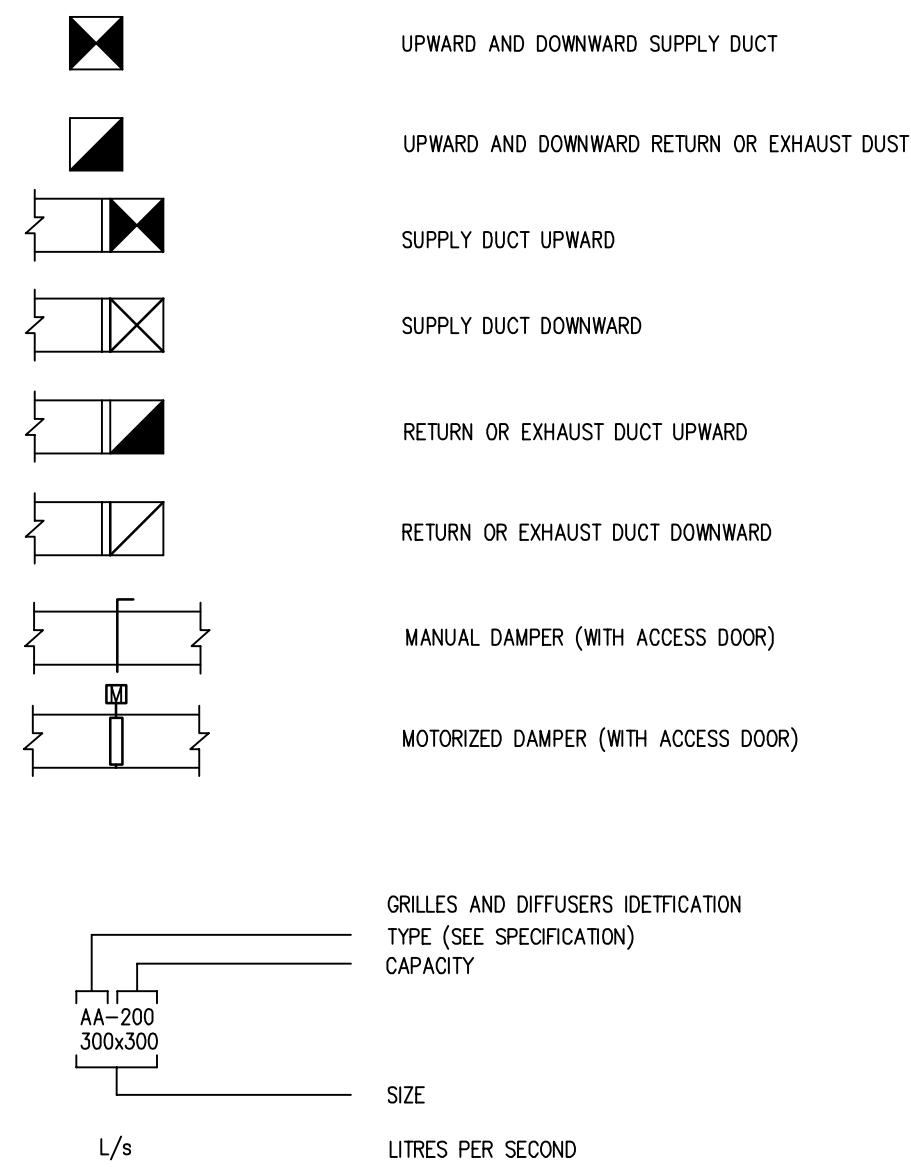
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Appendix A: As-built WTP Drawings

PLUMBING AND HEATING



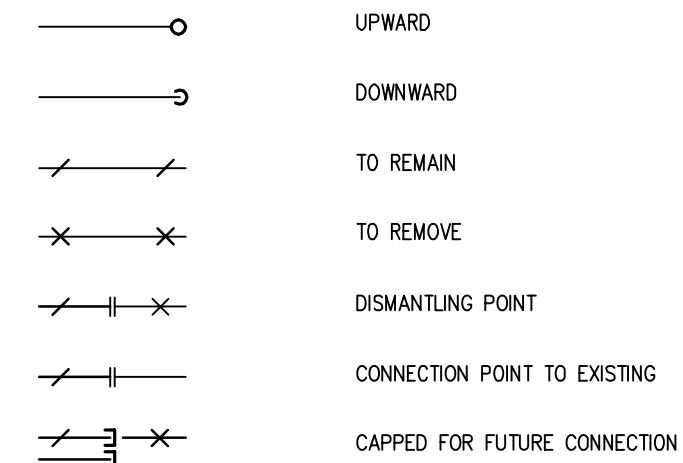
HVAC



DRAWING LIST

M100	MECHANICAL – LEGEND AND DRAWING LIST
M101	MECHANICAL – DETAILS
M200	MECHANICAL – PLUMBING LAYOUT
M201	MECHANICAL – PLUMBING ELEVATION DETAILS
M202	MECHANICAL – PLUMBING SCHEMATIC AND ELEVATION DETAIL
M300	MECHANICAL – FUEL SYSTEM LAYOUT
M301	MECHANICAL – FUEL SYSTEM SCHEMATIC & NORTH ELEVATION
M500	MECHANICAL – VENTILATION LAYOUT
M600	MECHANICAL – CONTROL SCHEMATICS
M601	MECHANICAL – CONTROL SCHEMATICS
M602	MECHANICAL – CONTROL SCHEMATICS

GENERAL



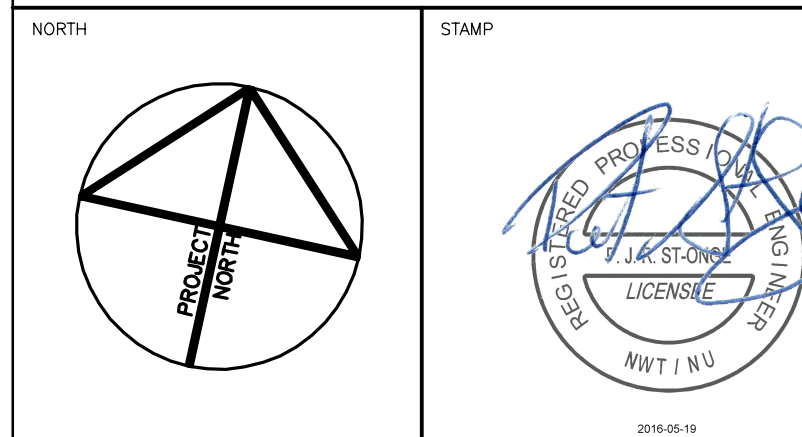
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Signature: *[Signature]*

Date: 2016-05-18

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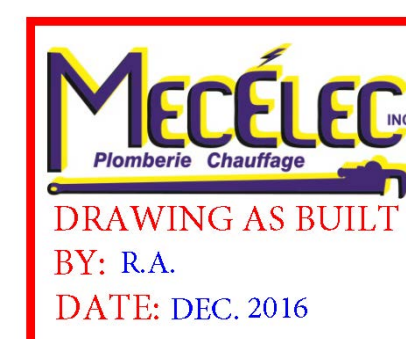


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PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
LEGEND AND DRAWING LIST

design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M100
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		

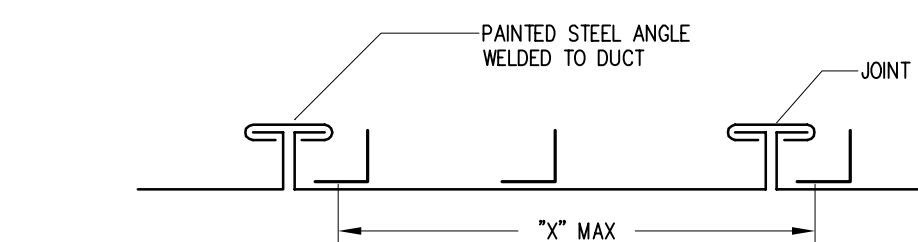


LEVELLING BASE (TYPE I)
(NTS)

DET-MB001.DWG
99/10

TYPICAL WEATHER COWL DETAIL
(NTS)

INSTALLATION OF FLOOR MOUNTED PIPES
(NTS)



DIMENSIONS mm (in)	SHEET THICKNESS mm (CAL. US)	JOINT TYPE	"h" mm (in)	"x" mm (in)	STEEL ANGLE mm	
					CENTER	END
≤ 300 (≤ 12)	0.551 (26)	"DRIVE SLIP"	—	2400 (94)	—	—
350 A 750 (14 A 30)	0.701 (24)	" T "	25 (1)	1170 (46)	—	—
800 A 1350 (32 A 54)	0.853 (32)	" T "	35 (1.4)	1170 (46)	—	—
1400 A 1500 (56 A 60)	1.006 (20)	" T "	35 (1-1/2)	1140 (45)	35 X 35 X 3	—
1550 A 2150 (62 A 84)	1.006 (20)	" T "	35 (1.4)	1140 (45)	35 X 35 X 3	35 X 35 X 3
2200 ET PLUS (86 ET PLUS)	1.311 (18)	" T "	35 (1-1/2)	1140 (45)	55 X 5 X 3	35 X 35 X 3

Diagram illustrating the installation of a Butyl Sealed Joint on a metal duct corner.

The diagram shows two views of the installation process:

- Top View:** Shows the Butyl Sealed Joint being applied to the corner of the metal duct. The joint is labeled "BUTYL SEALED JOINT".
- Bottom View:** Shows the completed installation. The Butyl Sealed Joint is secured to the metal duct corner using Metal Screws. The joint is labeled "BUTYL SEALED JOINT". The corner is labeled "METAL SCREW AT DUCT CORNER".
- Butyl Strip:** A separate view shows the Butyl Strip, labeled "BUTYL STRIP 13mm x 3mm".

STEEL ROD

SPRING ISOLATOR

CENTRIFUGAL FAN ANCHORED TO THE BASE

ANGULAR ISOLATOR

STEEL FRAME BASE, STRUCTURAL STEEL OR FIREPROOF PLYWOOD, BUILT TO SUIT THE LOAD AND THE DIMENSIONS OF THE EQUIPMENT OR INTERNAL BASE BY SECTION SUPPORTING EQUIPMENT

AXIAL FAN, AXIAL CENTRIFUGAL OR VENTILATION UNIT

FLEXIBLE CONNECTION

ADJACENT DUCT

INTEGRAL SUPPORT

NOTE: SPRING ISOLATORS SHALL OPERATE IN COMPRESSION

RAIN SHIELD

900mm

STRUCTURAL SUPPORT

TRANSITION WITH TWO 45° ELBOWS

INSULATED THIMBLE (SEE DETAIL ABOVE)

DOUBLE WALL ENGINEERED CHIMNEY

DRAIN CONNECTION

ADAPTER FROM UNFLANGED UNIT HEATER OUTLET

BAROMETRIC DRAFT REGULATOR

TO EQUIPMENT CONNECTION

DIA = X + 30

DIA = X + 60

DIA = X + 110

20mm HOLES

6mm HOLES

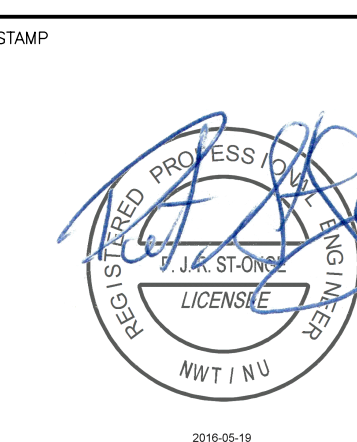
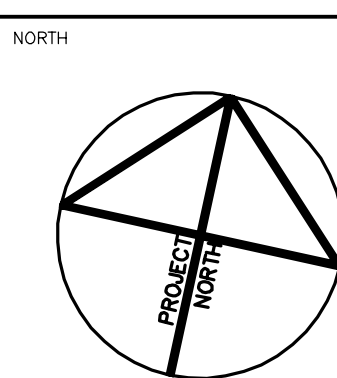
MOUNTING FLANGE

CENTRE HOLE DIAMETER (X) EQUALS EXHAUST PIPE O.D. PLUS 6mm

THIMBLE DETAIL





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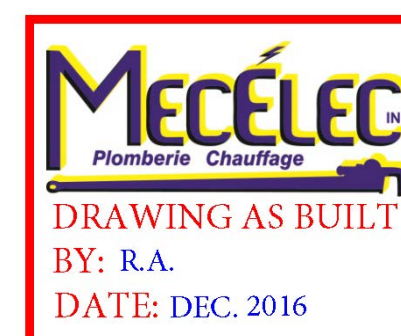


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PROJECT

REPULSE BAY, NUNAVUT
NEW PUMPING STATION

design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M101
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		



GENERAL NOTES:

- LAYOUT OF CHEMICAL FEED PIPING (CF-N) IS SHOWN SCHEMATICALLY FOR CLARITY. COORDINATE FINAL LAYOUT ON SITE.
- THE PLAN VIEW, ELEVATION VIEWS AND SCHEMATIC DIAGRAM ON DRAWING M201 AND M202 ARE COMPLEMENTARY AND COVER ALL COMPONENTS AND ACCESSORIES REQUIRED.
- THE CONTRACTOR SHALL PRODUCE PIPE FABRICATION AND ERECTION DRAWINGS, COMPLETE WITH LIST OF EQUIPMENT FOR REVIEW BY ENGINEER PRIOR TO ANY CONSTRUCTION.

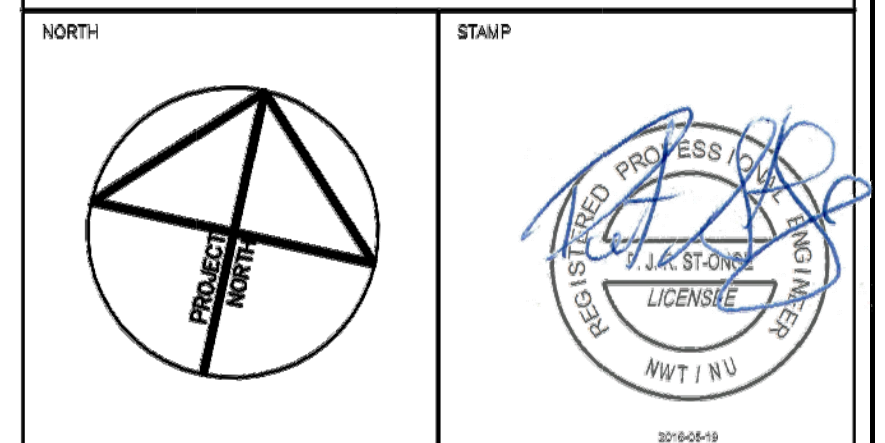
DRAWING NOTES:

- PROVIDE NPS 1/2 DCW AND DHW PIPING TO EW-01, SK-01, & SK-02 C/W THERMOSTATIC MIXING VALVE NEAR OUTLET OF WH-01.
- WH-01 SUSPENDED AT 2000MM ABOVE FLOOR PLATE. DWP-01 INSTALLED BELOW ON FLOOR PLATE. REFER TO SUSPENDED EQUIPMENT DETAIL M101.
- INSTALL SP-02 DIRECTLY BENEATH SERVICE SINK SK-01. PROVIDE TRAP AND DRAIN SK-01, SK-02 AND EW-01 DIRECTLY INTO SP-02 TANK.
- PROVIDE NPS 3/4 HOSE BIB CONNECTION NEAR OUTLET OF DWP-01.
- PIPE NPS 1/2 DRAIN FROM CC-01, CC-02 & CC-03 BACK TO SUMP PIT CONTAINING THE SUMP PUMP SP-02.
- CONNECT PIPE TO TRUCK FILL ARM WITH FLEXIBLE JOINT. SEE DETAIL ON STRUCTURAL DRAWING S4.
- SUPPLY AND INSTALL HIGH LEVEL INDICATOR SWITCH COMPLETE WITH RED LIGHT FOR EXTERIOR INSTALLATION. INSTALL SWITCH IN SEWAGE TANK.
- LOCATION FOR THE INSTALLATION OF SEWAGE TANK LEVEL INDICATOR LIGHT.
- TRENCH DRAIN
- NPS 4 CAPPED FLANGE CONNECTION FOR FUTURE USE.
- INTAKE SHAFT TO MAIN WATER PUMPS WP-01 & WP-02 FROM FLANGE.
- SPACE AVAILABLE FOR FUTURE CARBON FILTRATION SYSTEM. CARBON FILTRATION SYSTEM MUST NOT PRECEDE CHLORINE ADDITION AFTER FILTRATION.
- CHLORINE CONTACT PIPE.
- FLANGED CONNECTION POINT TO CHLORINE CONTACT PIPE. REFER TO DETAIL A ON DRAWING M201 AND DETAIL C ON DRAWING M202.
- PROVIDE ADEQUATE SUPPORT FOR THE BASKET FILTER. FILTER TO BE ANCHORED TO THE FLOOR USING A SUPPORT STAND.
- NPS 3 SEWAGE TANK DRAIN LINE WITH CAMLOCK CONNECTION.
- VENT CAP TO BE REMOVED (FOR SEWAGE TANK VENTING PURPOSE).
- NPS 3 PIPING TOWARDS THE SAMPLE COLLECTING STATION; TREATED WATER STATION. REFER TO DETAIL 1 ON DRAWING M202.
- NPS 3 PIPING TOWARDS THE SAMPLE COLLECTING STATION; RAW WATER STATION. REFER TO DETAIL 1 ON DRAWING M202.
- FLOAT SWITCH



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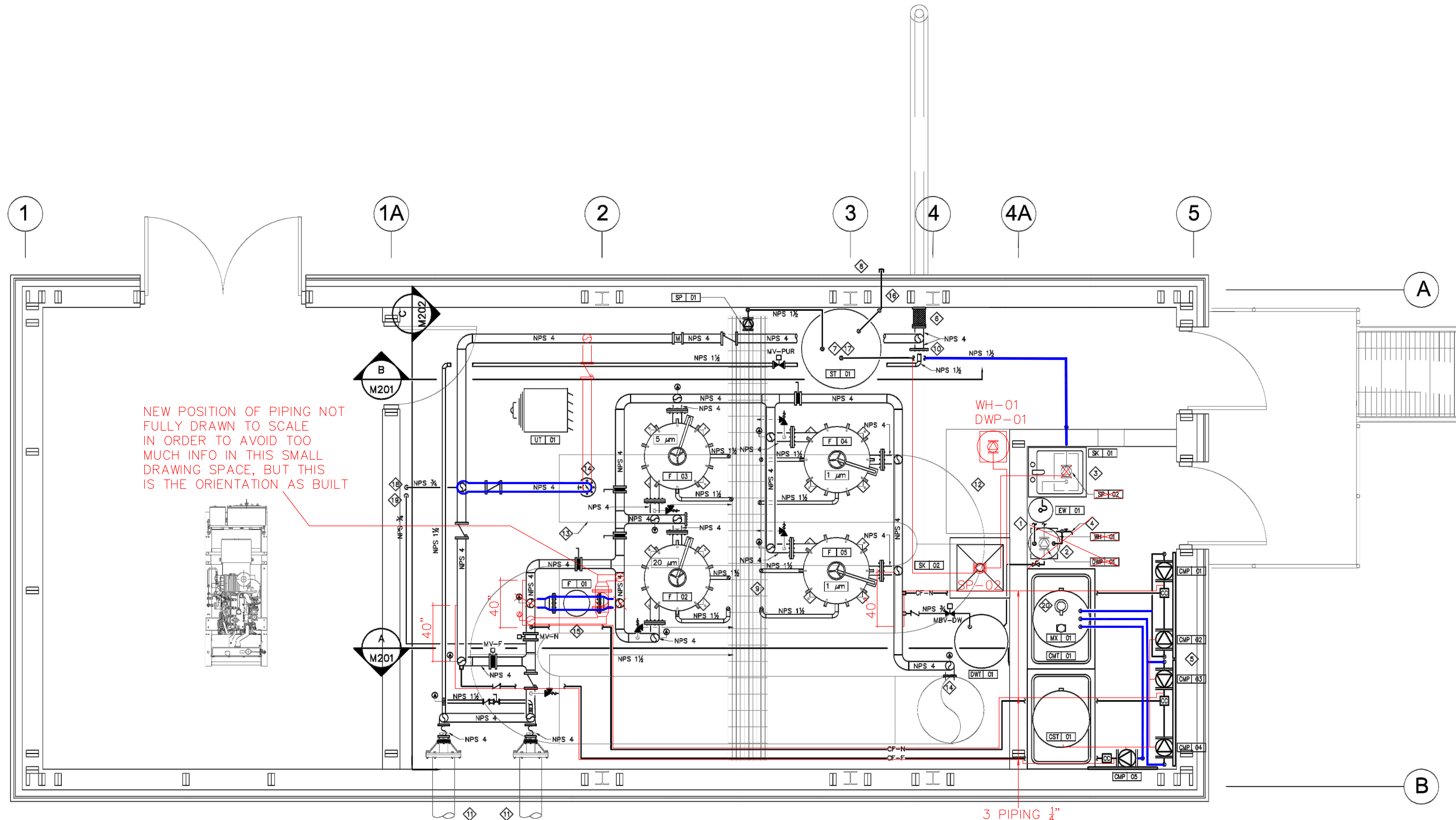
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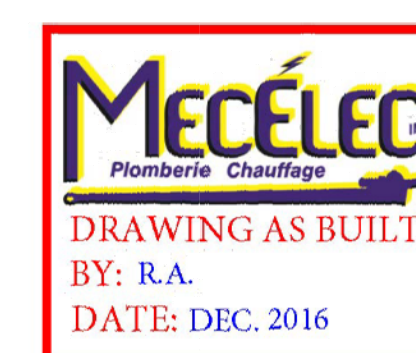
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MECHANICAL
PLUMBING LAYOUT

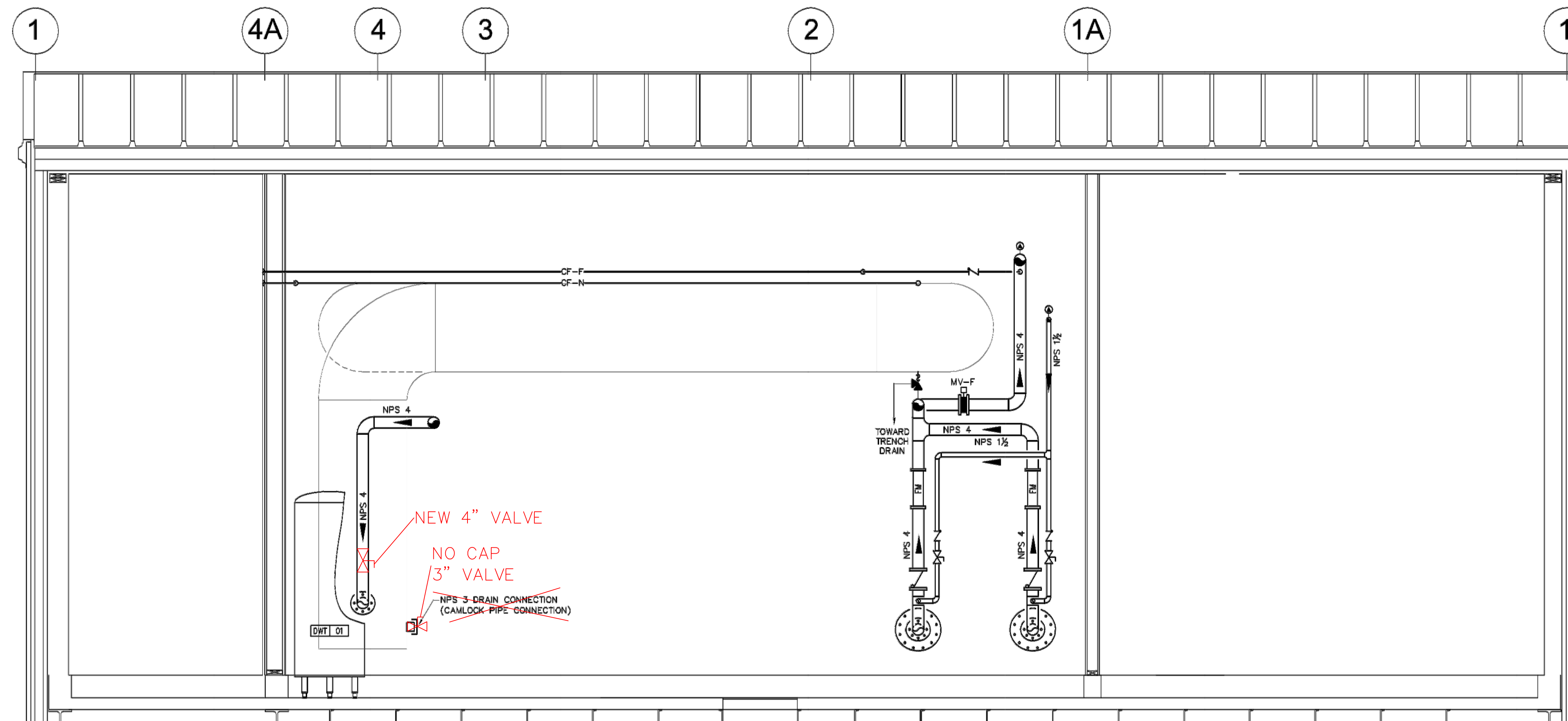
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M200

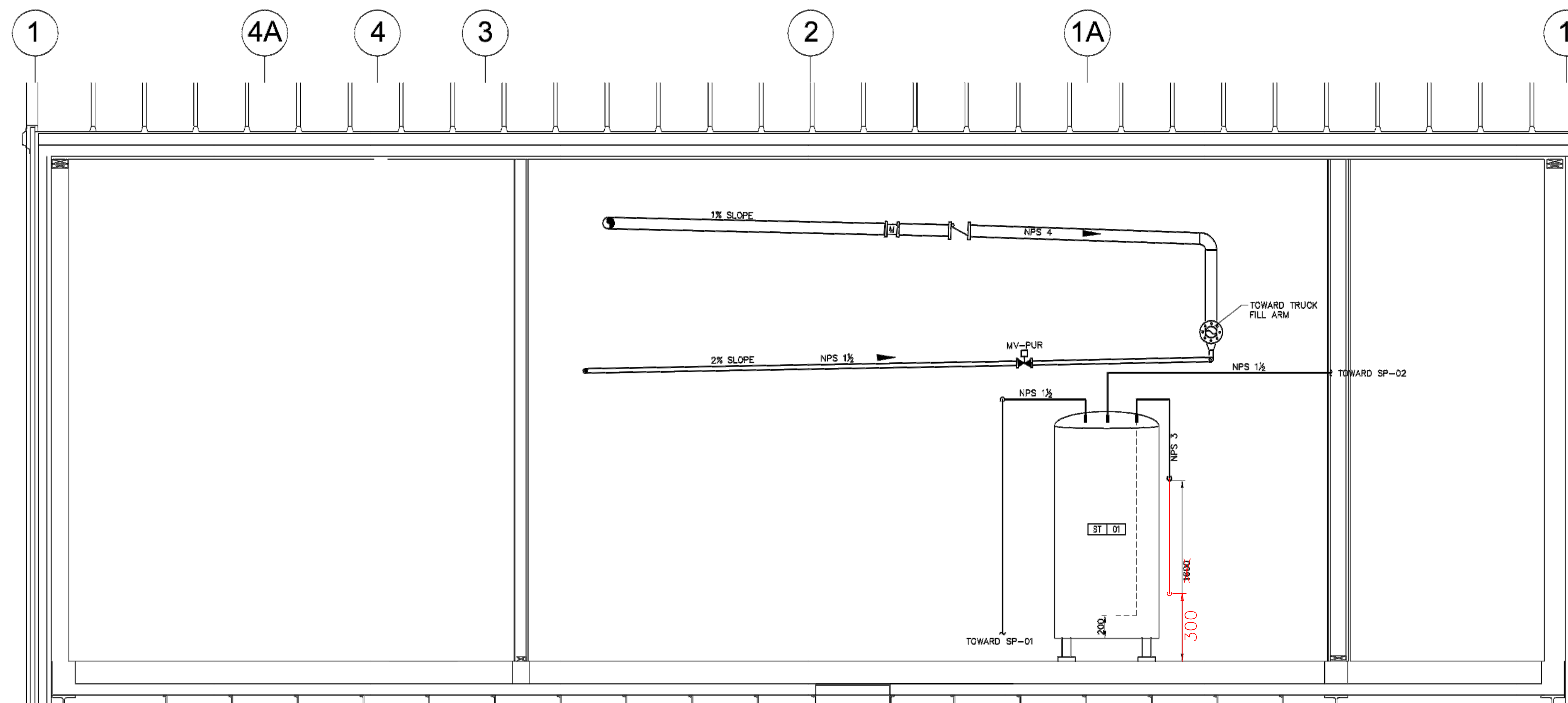


PREVIOUS PIPING PATH





A DETAIL ELEVATION – DOMESTIC WATER DELIVERY SYSTEM
M201
SCALE 1:25



B SECTION DETAIL – DOMESTIC WATER DELIVERY SYSTEM
M201
SCALE 1:25



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NORTH



STAMP



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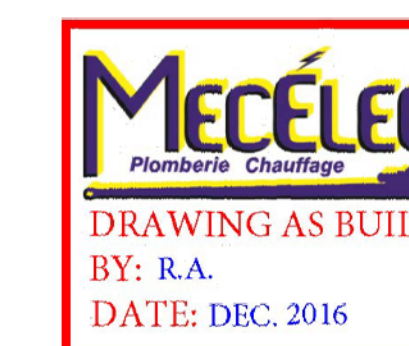


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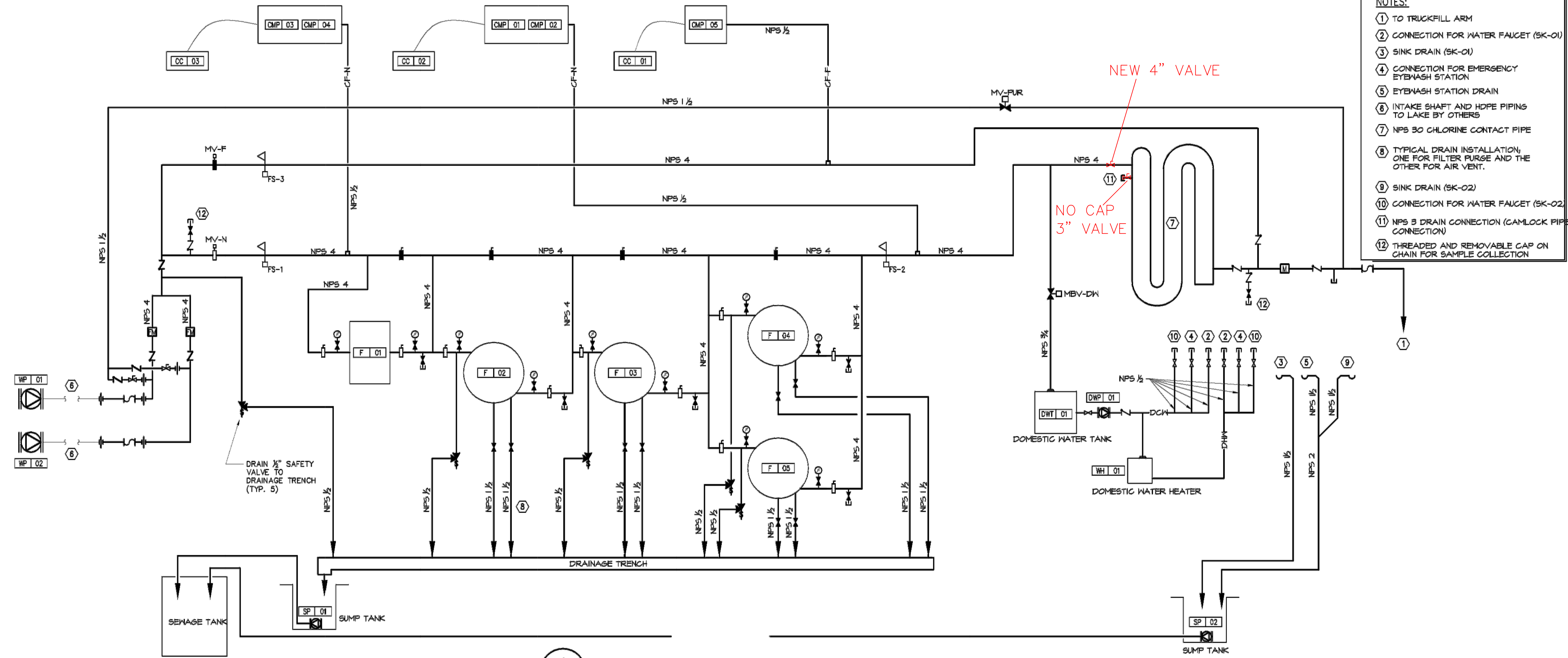
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WATER SYSTEM
HYDRAULIC DIAGRAM

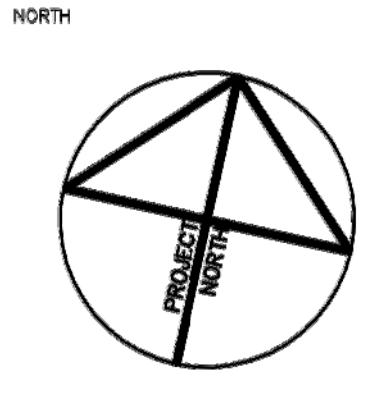


1 DOMESTIC WATER DELIVERY SYSTEM – SCHEMATIC DIAGRAM
M202

- NOTES:
- ① TO TRUCKFILL ARM
 - ② CONNECTION FOR WATER FAUCET (SK-01)
 - ③ SINK DRAIN (SK-01)
 - ④ CONNECTION FOR EMERGENCY EYEWASH STATION
 - ⑤ EYEWASH STATION DRAIN
 - ⑥ INTAKE SHAFT AND HOPE PIPING TO LAKE BY OTHERS
 - ⑦ NPS 30 CHLORINE CONTACT PIPE
 - ⑧ TYPICAL DRAIN INSTALLATION; ONE FOR FILTER PURGE AND THE OTHER FOR AIR VENT.
 - ⑨ SINK DRAIN (SK-02)
 - ⑩ CONNECTION FOR WATER FAUCET (SK-02)
 - ⑪ NPS 3 DRAIN CONNECTION (CAMLOCK PIPE CONNECTION)
 - ⑫ THREADED AND REMOVABLE CAP ON CHAIN FOR SAMPLE COLLECTION

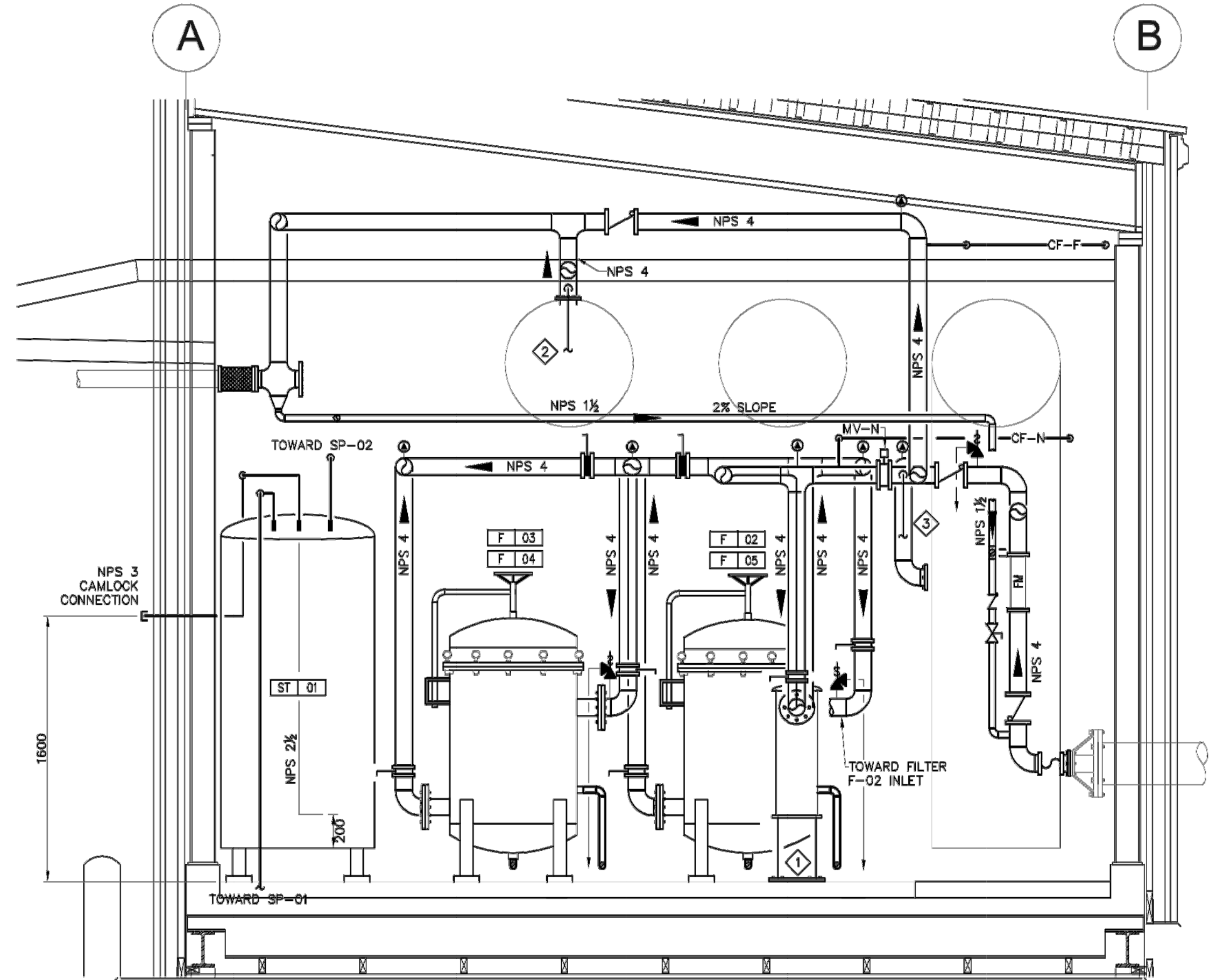


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- DRAWING NOTES:
- ① FLANGED SUPPORT STRUCTURE FOR THE SUPPORT OF F-01
 - ② NPS 3/4 PIPING TOWARDS THE SAMPLE COLLECTING STATION; TREATED WATER STATION.
 - ③ NPS 3/4 PIPING TOWARDS THE SAMPLE COLLECTING STATION; RAW WATER STATION.



C DETAIL ELEVATION – DOMESTIC WATER DELIVERY SYSTEM
M202
SCALE 1:25

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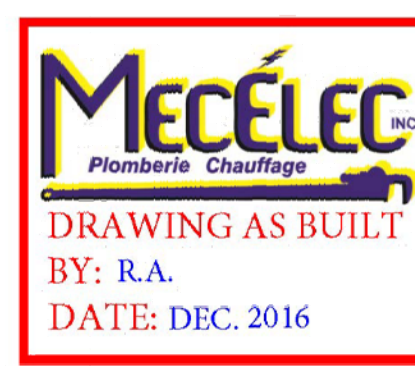
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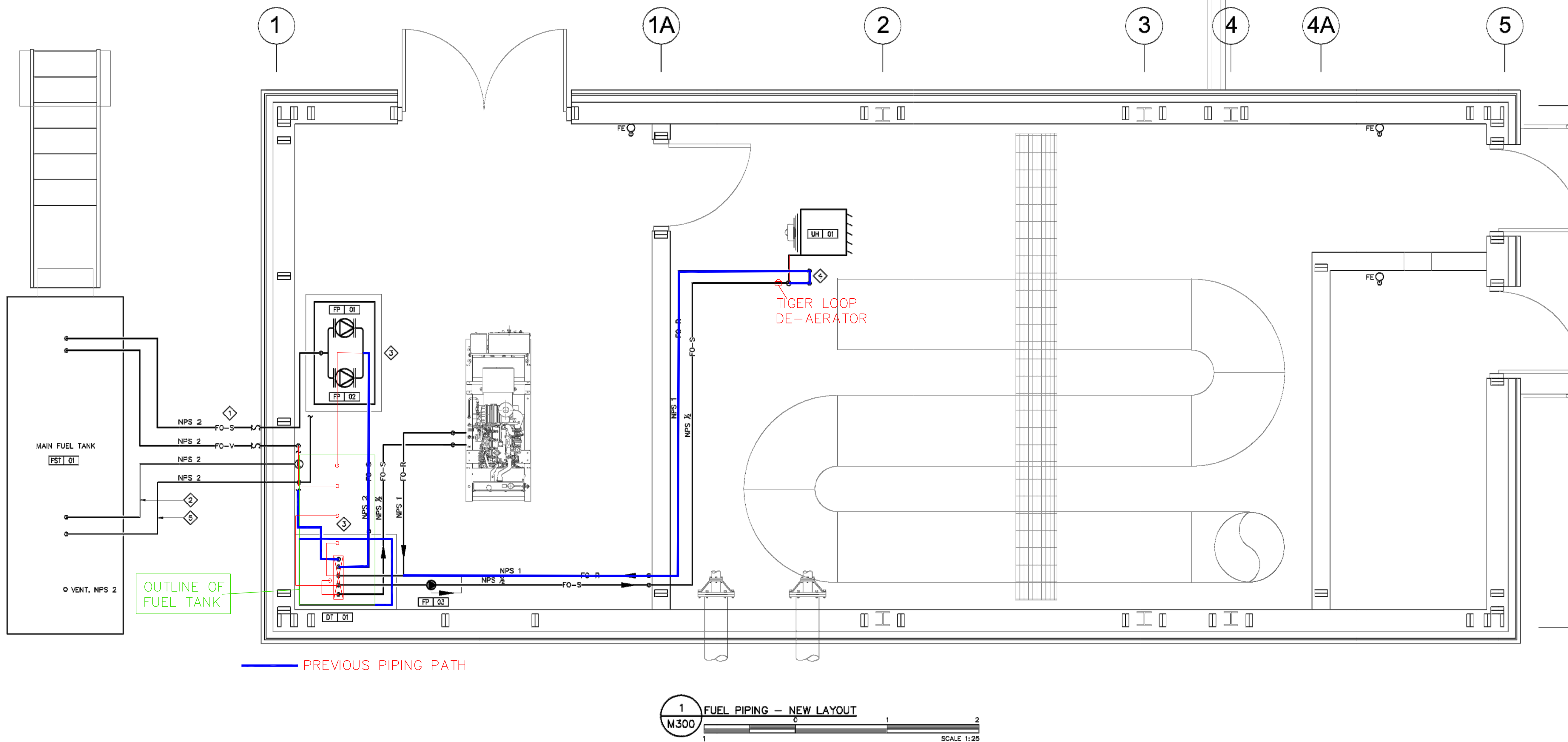
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REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING SCHEMATIC
& ELEVATION DETAIL

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checked by	P.S.O.		
date	DECEMBER 2014		
	AS SHOWN		

M202





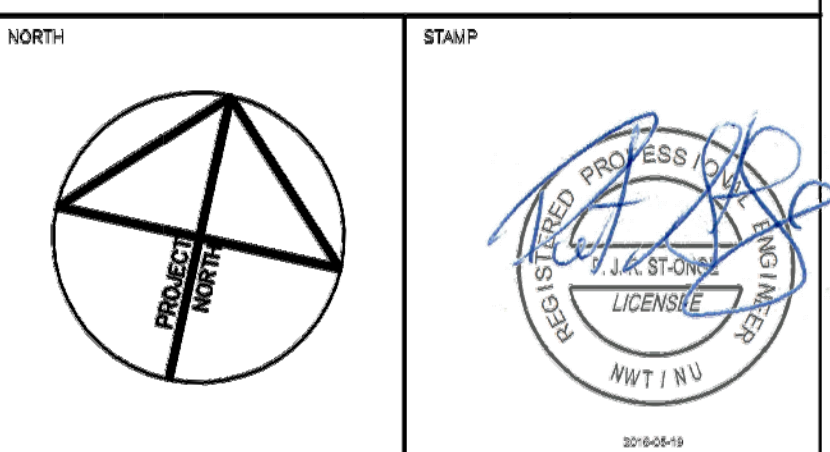
2016/05/19

- GENERAL NOTES:**
- 1 REFER TO FUEL SYSTEM SCHEMATIC ON DRAWING M-301, FOR ALL OIL ACCESSORIES.
 - 2 REFER TO ELEVATION DETAIL ON DRAWING M-301, FOR THE MAIN FUEL TANK PIPING LAYOUT.
 - 3 GATHER NEXT TO EACH OTHER ALL PIPING PENETRATING THE EXTERIOR WALL IN ORDER TO REDUCE THE WALL OPENING. REFER TO STRUCTURAL PLANS FOR DETAIL.

- DRAWING NOTES:**
- 1 REFER TO STRUCTURAL PLANS FOR EXTERIOR PIPE SUPPORT STRUCTURE. ALL SUPPORT RINGS, HANGERS AND ACCESSORIES TO BE PROVIDED BY PRESENT SECTION.
 - 2 INSTALL EXTERIOR LEVELOMETER WIRING INSIDE A NPS 2 BLACK STEEL PIPE.
 - 3 CONCRETE SLAB TO BE PROVIDED BY PRESENT SECTION. REFER TO DETAIL ON DRAWING M100.
 - 4 VACUUM BREAKER / VENT AS REQUIRED BY MANUFACTURER.
 - 5 INSTALL EXTERIOR CONTROL WIRING INSIDE A NPS 2 BLACK STEEL PIPE. INSIDE TO BE EMT ALL THE WAY TO CONTROL ALARM PANEL.



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BOUTHILLETTE PARIZEAU INC.
 Signature: *[Signature]*
 Date: 2016-05-18
PERMIT NUMBER: P717
 NWT/NU Association of Professional
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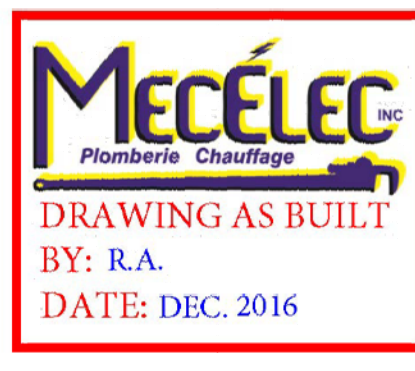
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CLIENT
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PROJECT
 REPULSE BAY, NUNAVUT
 NEW PUMPING STATION
 TITLE
 MECHANICAL
 FUEL SYSTEM LAYOUT
 design by P.C. project no. 8012-098
 drawn by Y.G. drawing no.
 checked by P.S.O.
 date DECEMBER 2014
 1:25
M300



FUEL SYSTEM SCHEMATICS
PIPING AND CONTROLS SCHEMATICS

NOTES:

- 1 DOUBLE WALL MAIN FUEL STORAGE TANK
- 2 FST-01 FILL/VENT CONNECTION C/M LOCKING CAP (NPS-2)
- 3 FST-01 INSPECTION PORT
- 4 FUEL SUPPLY LINE TO GENERATOR'S DAY TANK (ALL NPS-3)
- 5 FUEL TANK VENT C/M VENT WHISTLE (NPS-2)
- 6 FUEL VENT LINE FROM GENERATOR'S DAY TANK (ALL NPS-2)
- 7 DAY TANK
- 8 STAINLESS STEEL FLEXIBLE CONNECTION, CONNECT TO FUEL SUPPLY AND RETURN CONNECTIONS ON ENGINE.
- 9 REFER TO MANUFACTURER INSTRUCTIONS FOR THE SUPPLY OF OIL TO THE UNIT HEATER.

GENERAL NOTE:

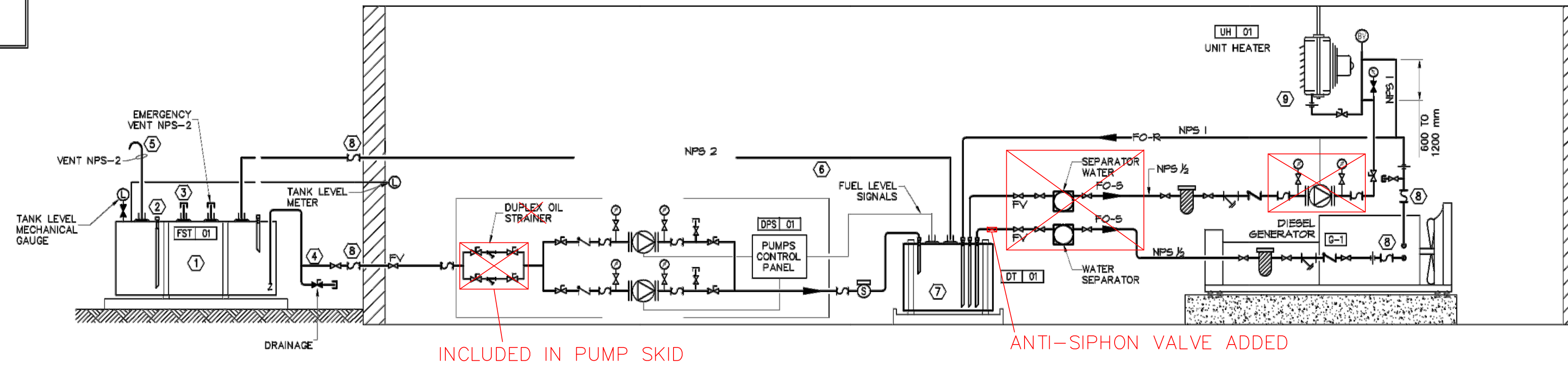
THE SCHEMATIC DRAWING SHOWS DETAILS OF THE CONTROLS LAYOUT, EQUIPMENT CONNECTIONS AND PIPING COMPONENTS OF THE SYSTEM. REFER TO DRAWING M300 FOR DETAILS ON THE PIPING LAYOUT AND LOCATION OF EQUIPMENT.

FST-01 CONTROLS

- AI FST-01 LEVEL SENSOR
- DI HIGH LEVEL SENSOR
- DI LOW LEVEL SENSOR
- DI LEAK DETECTION

DAY TANK CONTROLS

- DI HIGH LEVEL SENSOR
- DI LOW LEVEL SENSOR
- DI LEAK DETECTION



DRAWING NOTES:

- 1 REFER TO DRAWING M-300 FOR PIPING LAYOUT. ALL PIPING INSTALLED AT SAME HEIGHT. PROVIDE NECESSARY STEEL CLAMPS TO SECURE PIPING TO THE SUPPORT STRUCTURE PROVIDED BY STRUCTURAL.
- 2 STAIRS AND STEEL STRUCTURE FOR FUEL TANK PROVIDED BY STRUCTURE.
- 3 REFER TO STRUCTURAL PLANS FOR THE PIPE SUPPORT STRUCTURE.

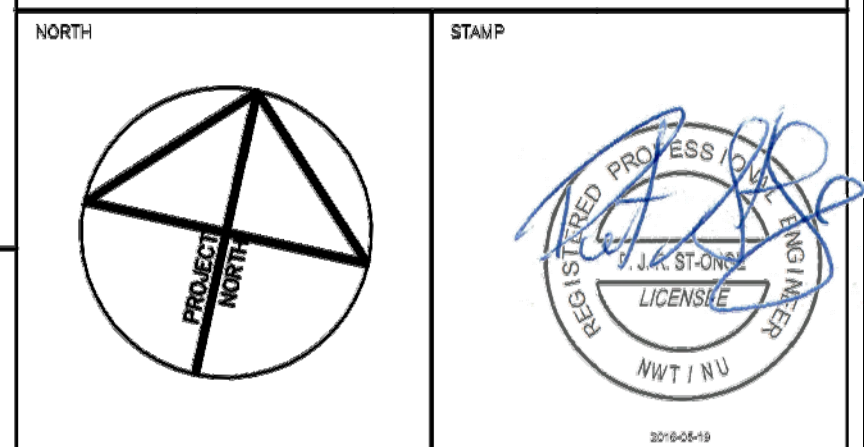


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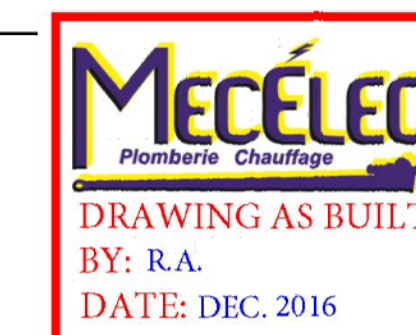
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AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

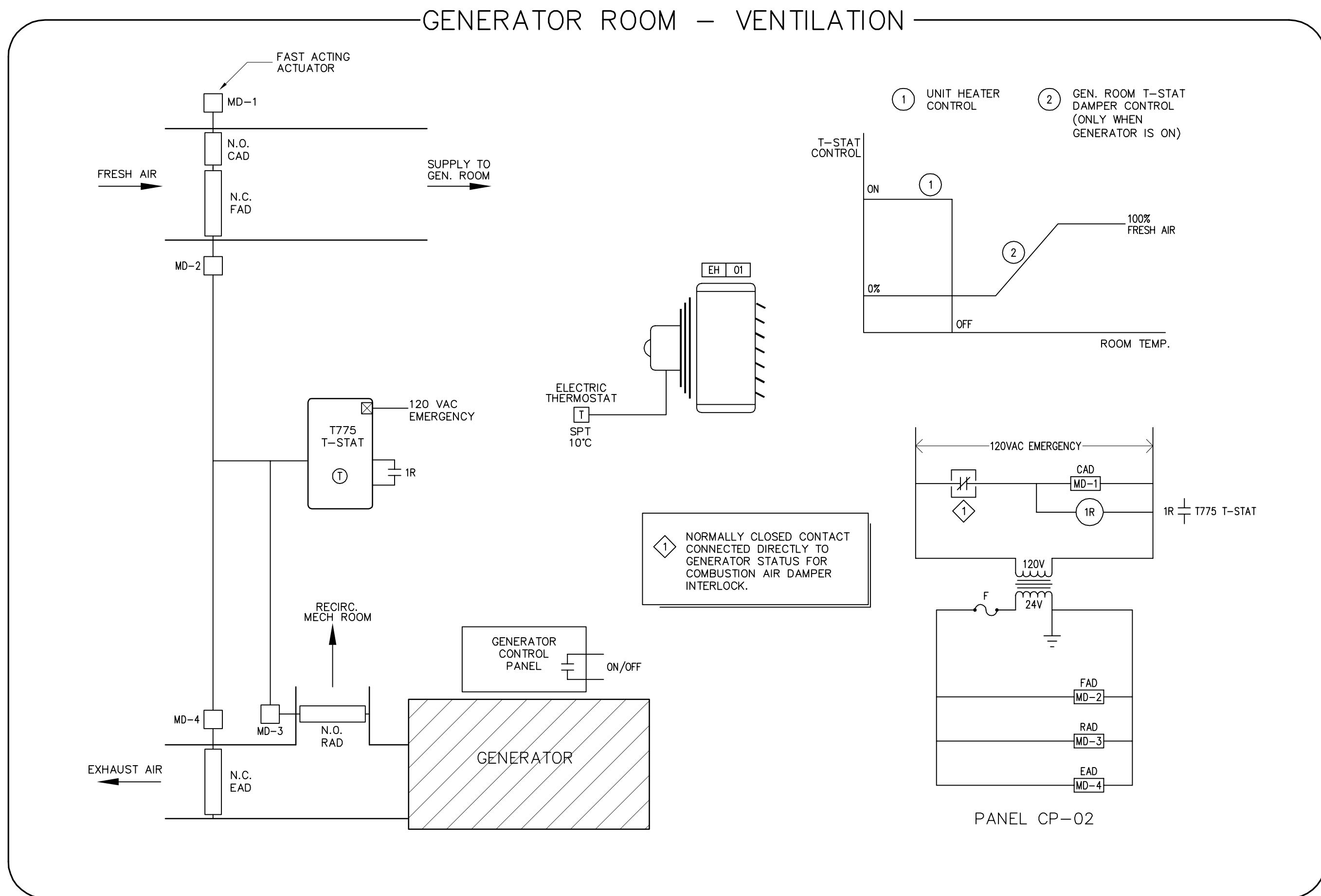
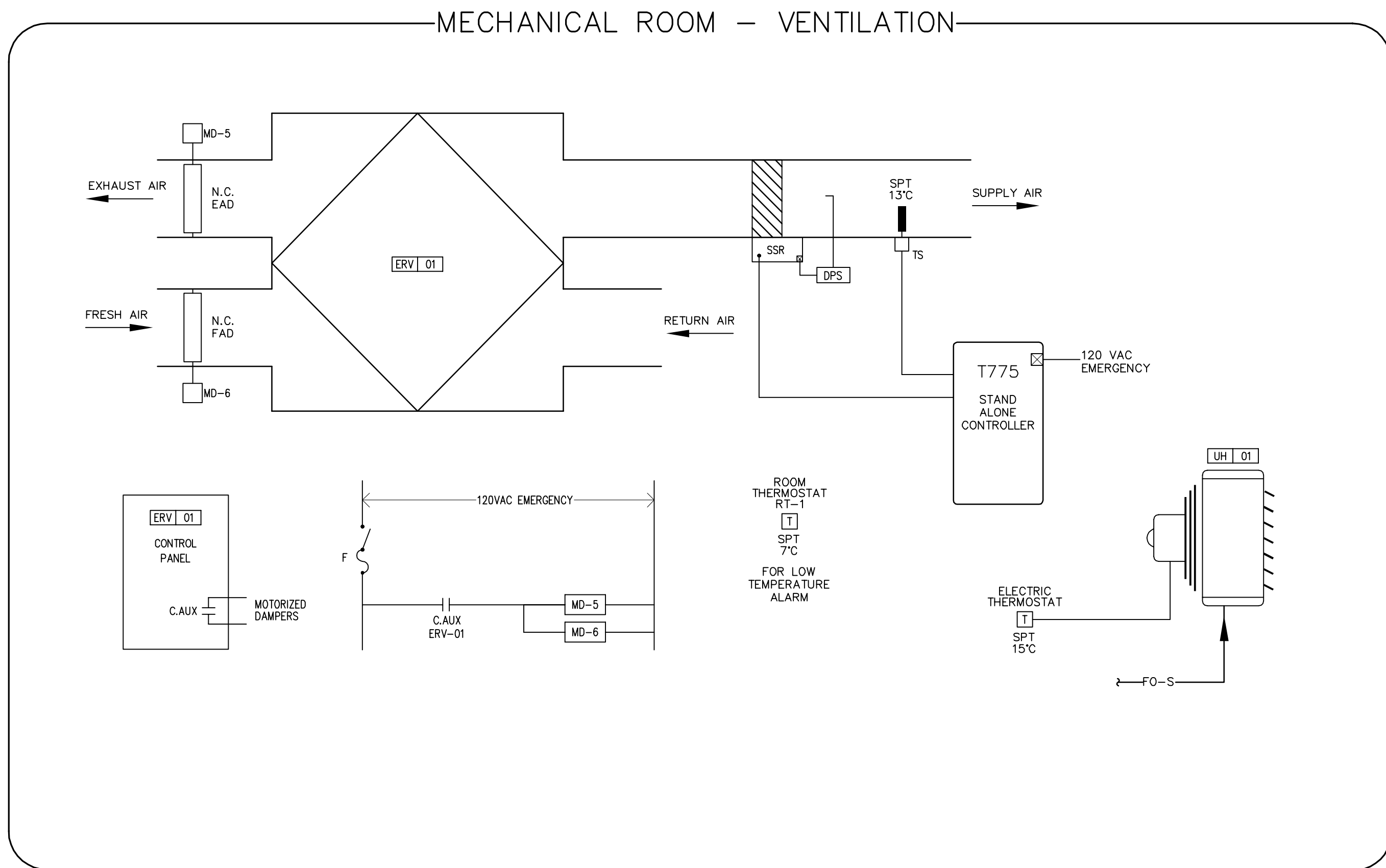
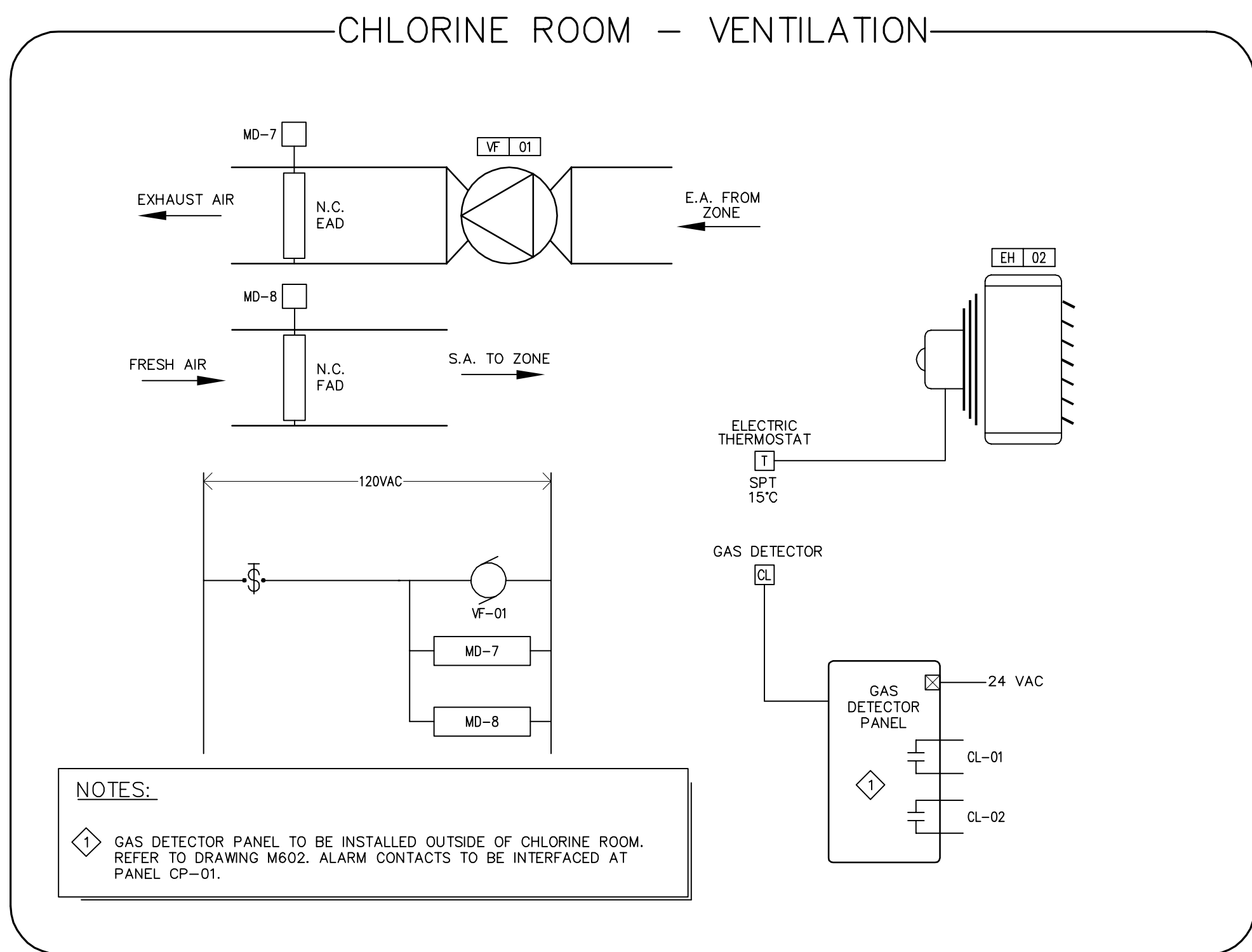
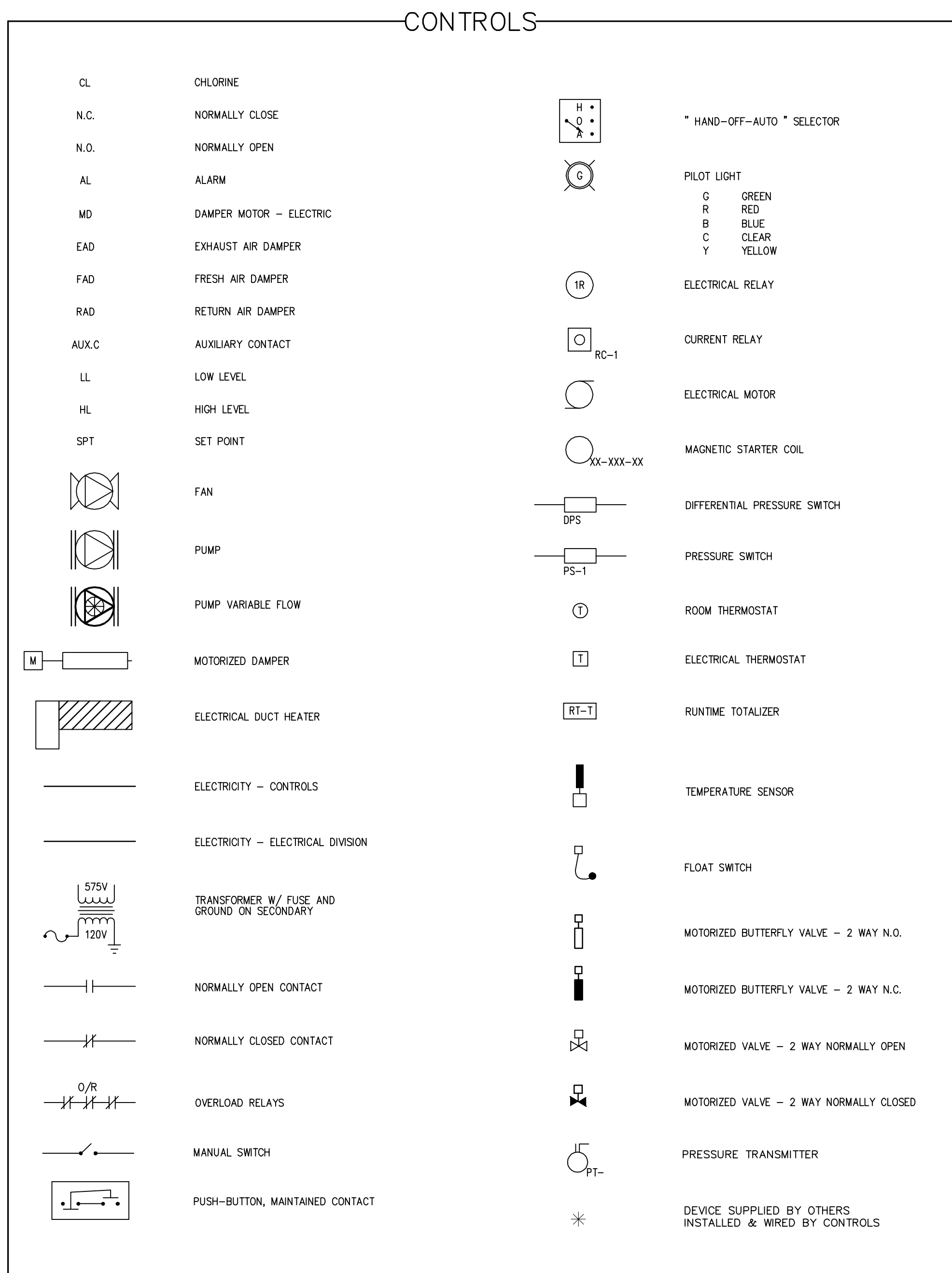
TITLE
MECHANICAL
PLUMBING SCHEMATIC
& NORTH ELEVATION

design by	P.C.	project no.	8012-098
drawn by	Y.G.	drawing no.	
checked by	P.S.O.		
date	DECEMBER 2014		
	AS SHOWN		

M301



1 NORTH ELEVATION - MAIN FUEL TANK
M301
SCALE 1:25

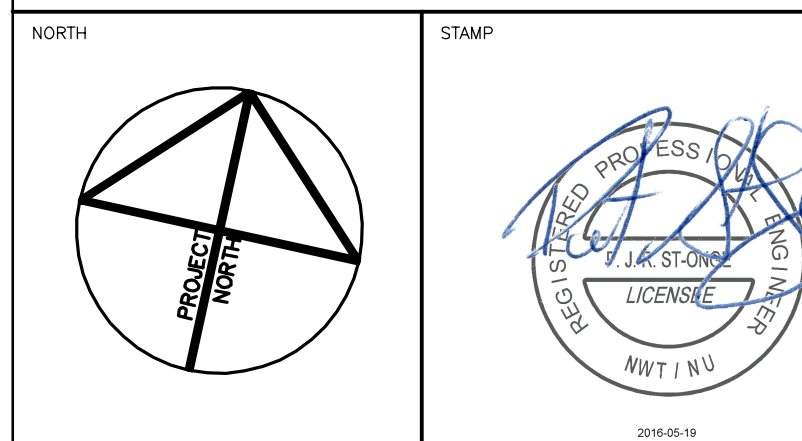


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Date: 2016-05-18

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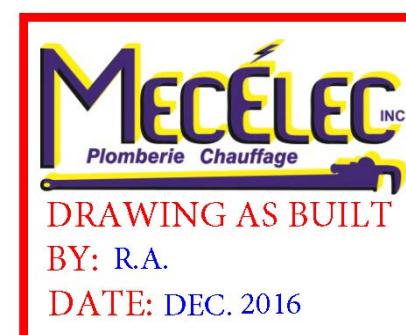
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**GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES**



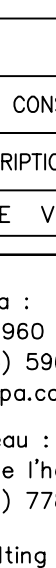


PROJECT
**REPULSE BAY, NUNAVUT
NEW PUMPING STATION**

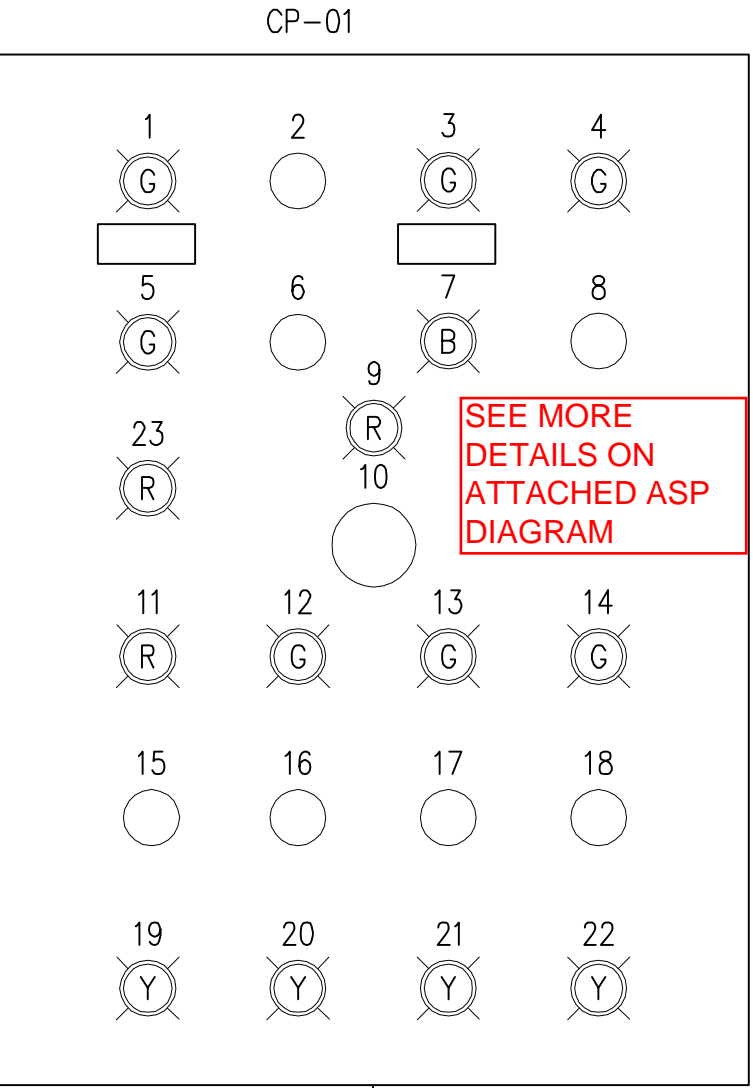
TITLE
**MECHANICAL
CONTROLS SCHEMATICS**

design by	L.P.	project no.	8012-099
drawn by	L.P.	drawing no.	M600
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		

SEE MORE
DETAILS ON
ATTACHED ASP
DIAGRAM



 <h1 style="margin: 0;">Nunavut</h1>											
PERMIT TO PRACTICE BOUTHILLETTE PARIZEAU INC.											
Signature: _____ Date: 2016-05-18											
PERMIT NUMBER: P717 NWT/NU Association of Professional Engineers and Geoscientists											
<p>NORTH</p> 	<p>STAMP</p>  <small>2016-05-18</small>										
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No.	DESCRIPTION	DATE	BY	APP							
1	ISSUED FOR CONSTRUCTION	2016/05/18	BPA	P.S.							
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<p>CLIENT</p> <p style="font-size: 1.2em; font-weight: bold;">GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES</p>											
<p>PROJECT</p> <p style="font-size: 1.2em; font-weight: bold;">REPULSE BAY, NUNAVUT NEW PUMPING STATION</p>											
<p>TITLE</p> <p style="font-size: 1.2em; font-weight: bold;">MECHANICAL CONTROLS SCHEMATICS</p>											
design by L.P.	project no. 8012--099										
drawn by L.P.	drawing no.										
checked by P.S.O.	M601										
date DECEMBER 2014											
N.T.S.											

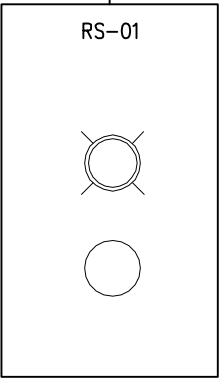


MAIN CONTROL PANEL CP-01 TO BE INSTALLED INSIDE PUMP HOUSE.
REFER TO RELAY LOGIC AND SPECS FOR PANEL DETAILS.

CP-01 NOTES:

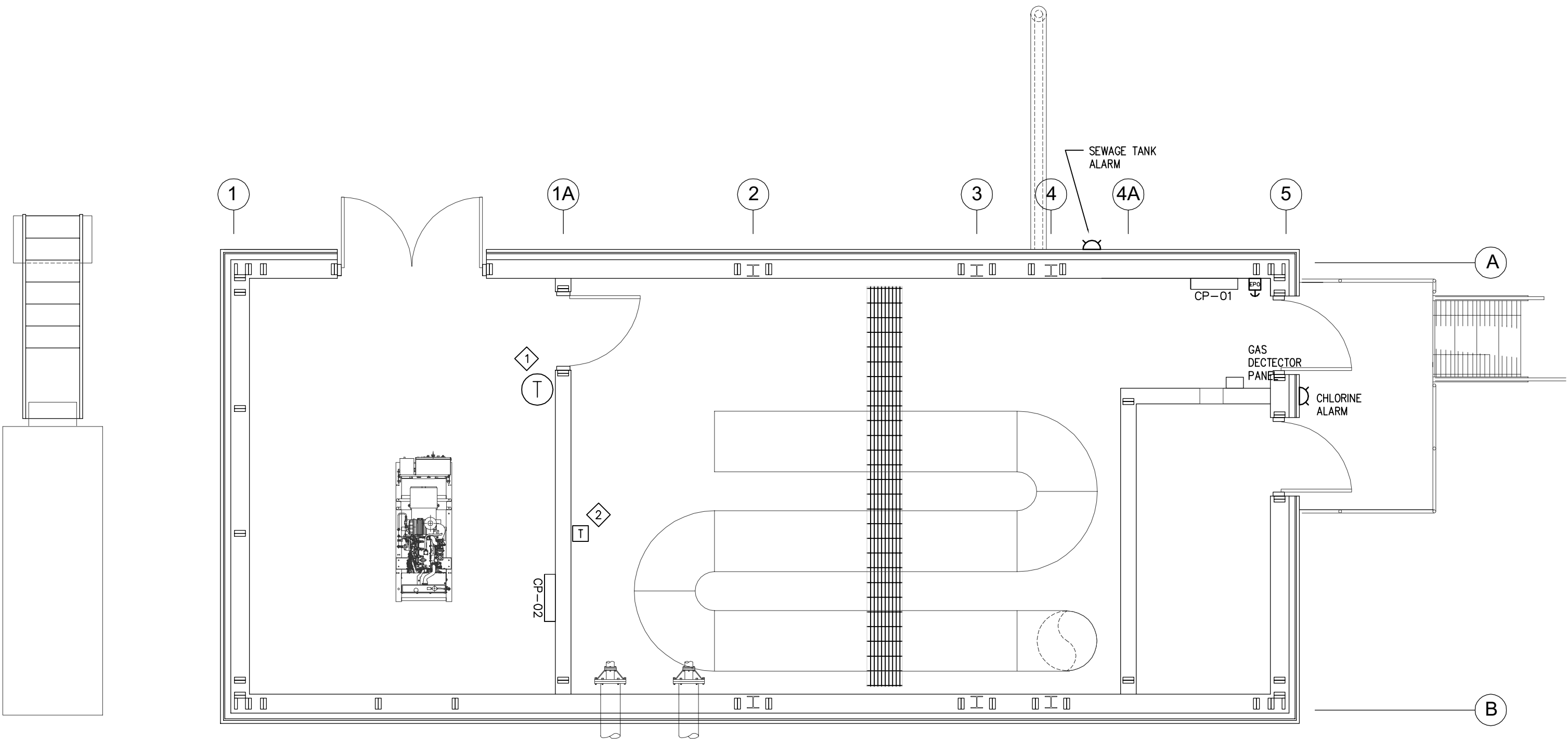
1. P1 STATUS
2. LEAD PUMP P1/P2 SELECTOR
3. P2 STATUS
4. FLOW STATUS
5. NORMAL MODE
6. NORMAL MODE/FIRE SELECTOR
7. FIRE MODE
8. MANUAL PURGE P.B.
9. EMERGENCY SHUTDOWN STATUS
10. EMERGENCY SHUTDOWN P.B.
11. PUMPING FAILURE ALARM
12. CC-01 STATUS
13. CC-02 STATUS
14. CC-03 STATUS
15. PUMPING FAILURE RESET P.B.
16. CC-01 H/O/A SELECTOR
17. CC-02 H/O/A SELECTOR
18. CC-03 H/O/A SELECTOR
19. FILTER 2 ALARM
20. FILTER 3 ALARM
21. FILTER 4 ALARM
22. FILTER 5 ALARM
23. CHLORINE MIXING TANK LOW LEVEL ALARM

SEE MORE
DETAILS ON
ATTACHED ASP
DIAGRAM



REMOTE OPERATOR STATION RS-01 TO BE INSTALLED ON THE FILL
ARM OUTSIDE. REFER TO RELAY LOGIC AND SPECS FOR STATION
DETAILS.

1 CP-01 PANEL LAYOUT



NOTES:

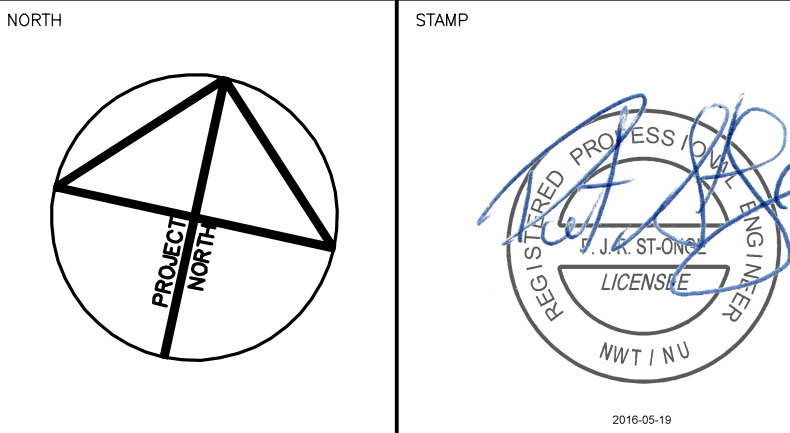
- 1 T-775 THERMOSTAT/CONTROLLER
- 2 THERMOSTAT FOR ROOM LOW TEMPERATURE ALARM.

2 SYSTEM LAYOUT
SCALE 1:50



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Date: 2016-05-18
PERMIT NUMBER: P717
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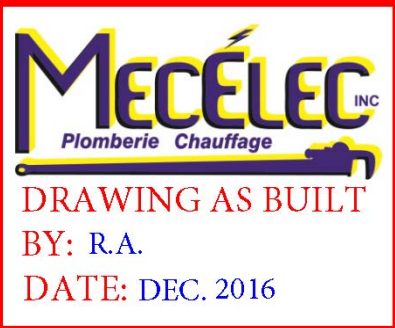


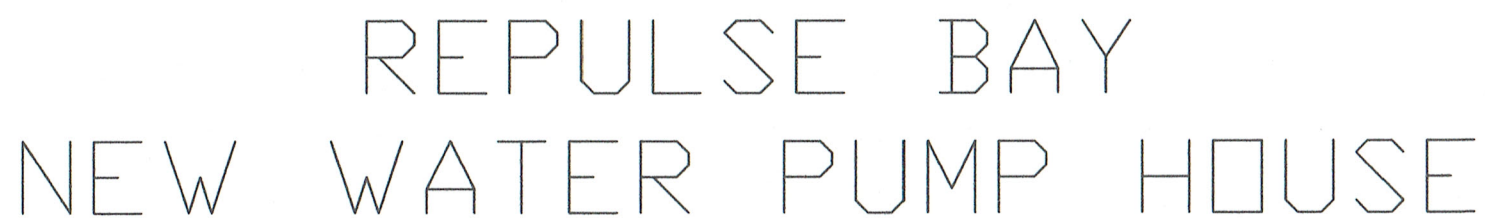
CLIENT
GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
CONTROLS SCHEMATICS

design by	L.P.	project no.	8012-099
drawn by	L.P.	drawing no.	M602
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		





STA

[illegible]

ASP AUTOMATISATION

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support@asp-a.ca

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AND GOVERNMENT SERVICES

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REPULSE BAY, NUNAVUT
NEW PUMPING STATION

DWG TITLE

ELECTRICAL CONTROLS SCHEMATICS

ENGINEER

PROJECT NO.

SCALE

No Scale

CHECKED BY

DRAIN BY

DATE

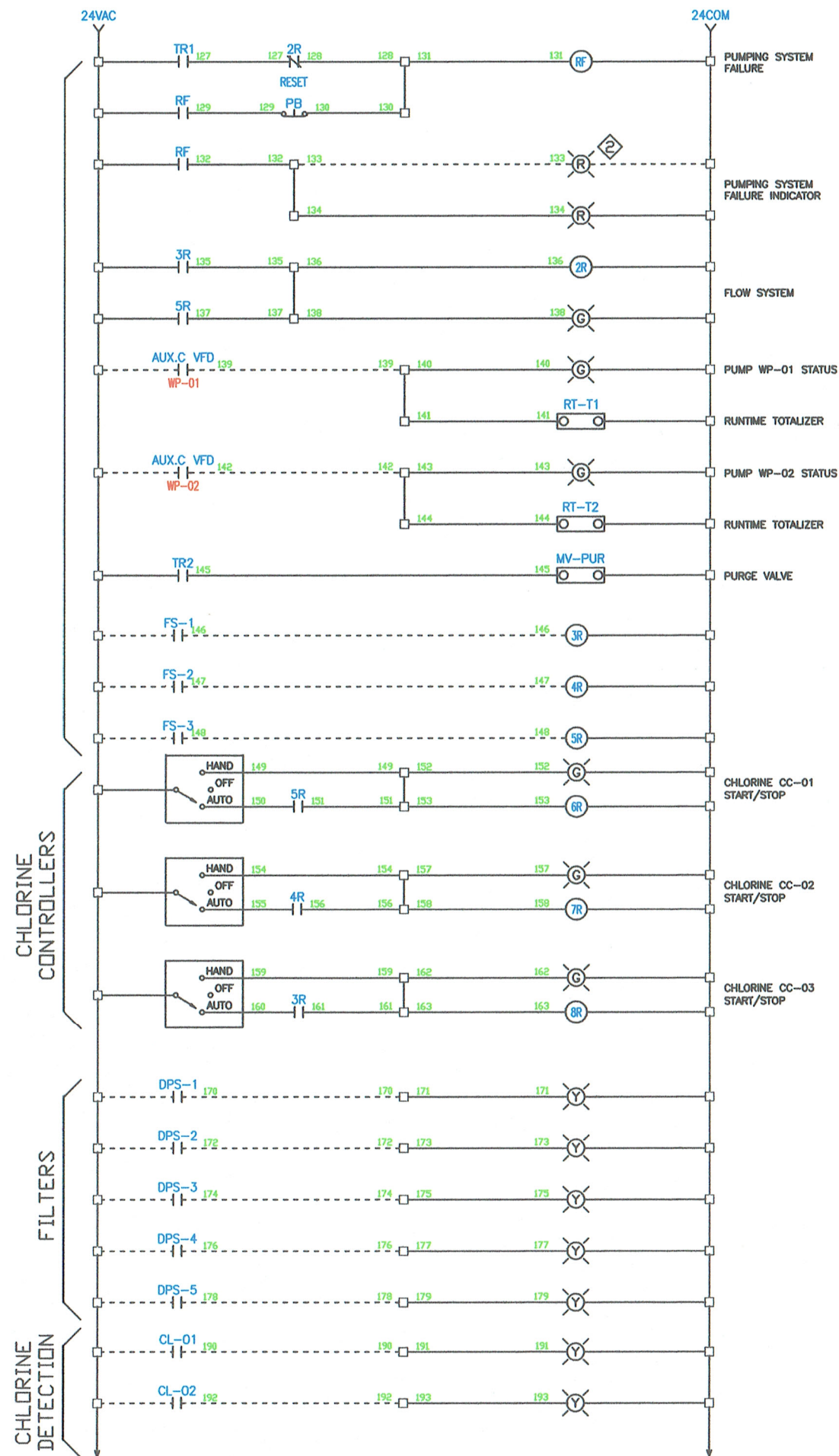
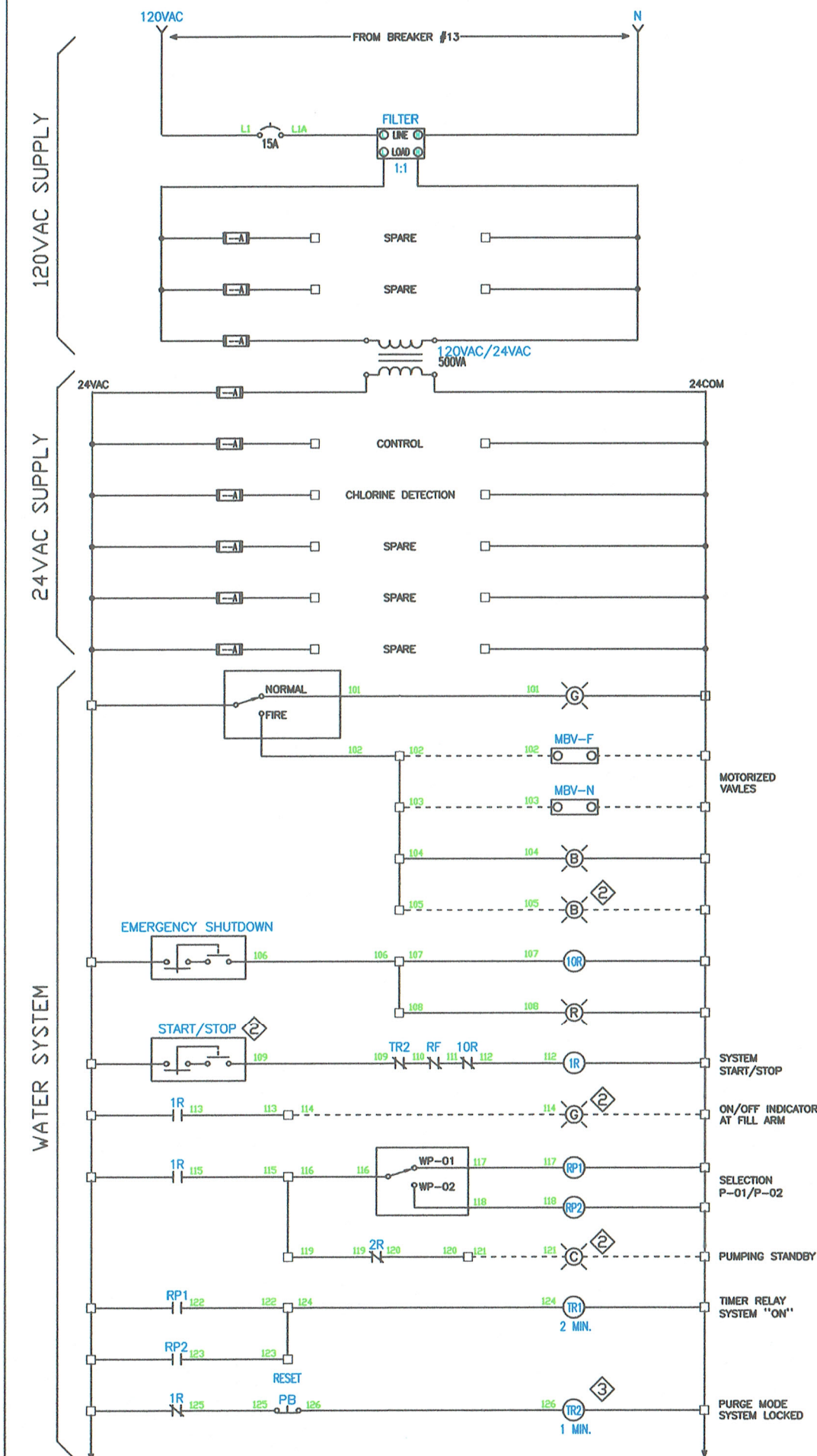
20/06/2016

DWG NO

ASP16324-01

SHEET NO.

1 OF 4



- ## NOTES

2 CONTROL DEVICE (PUSH-BUTTON, PILOT-LIGHT) MOUNTED ON FILL ARM OPERATOR STATION RS-01. REFER TO SPECS FOR DETAILS.

3 PURGE MODE LOCKS PUMPING SYSTEM IN SHUTDOWN AFTER FILL. ADJUST TIME DELAY TO ALLOW WATER TO FLUSH OUT OF THE PUMP DISCHARGE PIPING. REFER TO SEQUENCE OF OPERATION.

4 CHLORINE CONTROLLER BY
DIVISION 23. PROVIDE 24V POWER
SUPPLY AND START/STOP POWER
CONTACT TO CONTROLLER.

5 EXTERIOR LIGHT (RED) FOR SEWAGE TANK HIGH-LEVEL ALARM MOUNTED OUTSIDE ON THE EXTERIOR WALL OF THE PUMP HOUSE.

[illegible]

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Québec, Canada, G8G 1B1

418-478-6099

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AND GOVERNMENT SERVICES

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REPULSE BAY, NUNAVUT
NEW WATER PUMP HOUSE

OWN TITLE

ELECTRICAL CONTROLS SCHEMATICS

ENGINEER	CHECKED BY
----------	------------

PROJECT NO	DRAWN BY
------------	----------

ASP16324	J-M BERGERON
SCALE	DATE

OWG NO _____

ASP16324-01

SHEET NO

3 OF 4

24VAC FROM CP-01

DWT-HL

MV-DW

ST-HL

9R

9R

CMT-LL

5

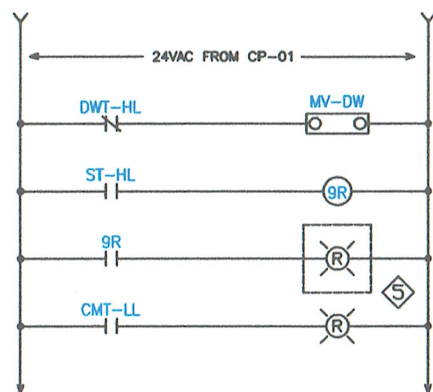


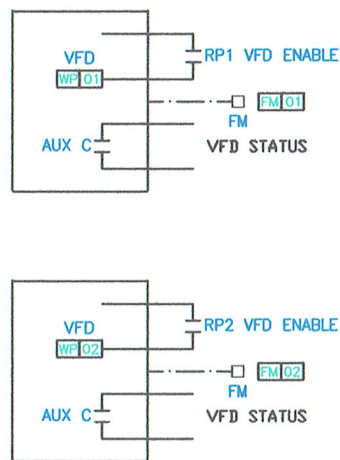
Diagram illustrating the VFD control system for pumps, showing two identical units (VFD 01 and VFD 02) connected to a common power supply and control lines.

Unit 1 (VFD 01):

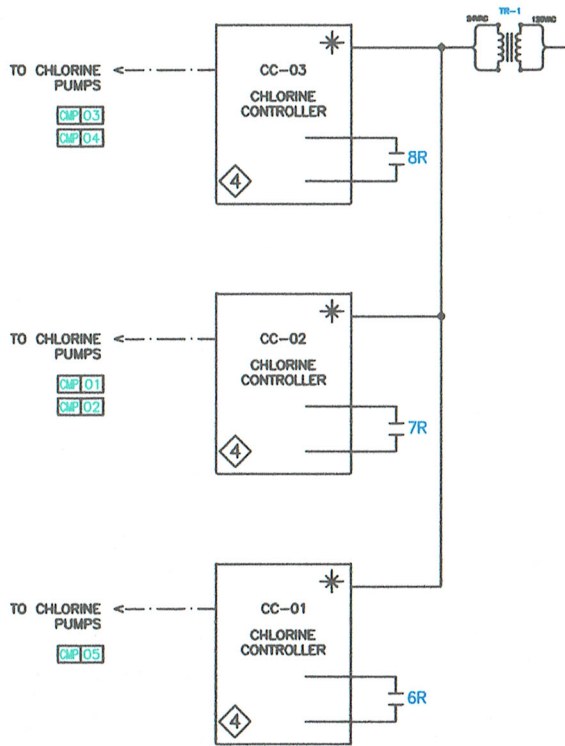
- VFD 01:** The main VFD unit.
- WP 01:** The pump control input.
- AUX C:** The auxiliary control input.
- RP1 VFD ENABLE:** The enable signal for the VFD.
- FM:** The feedback signal.
- VFD STATUS:** The status output signal.

Unit 2 (VFD 02):

- VFD 02:** The main VFD unit.
- WP 02:** The pump control input.
- AUX C:** The auxiliary control input.
- RP2 VFD ENABLE:** The enable signal for the VFD.
- FM:** The feedback signal.
- VFD STATUS:** The status output signal.



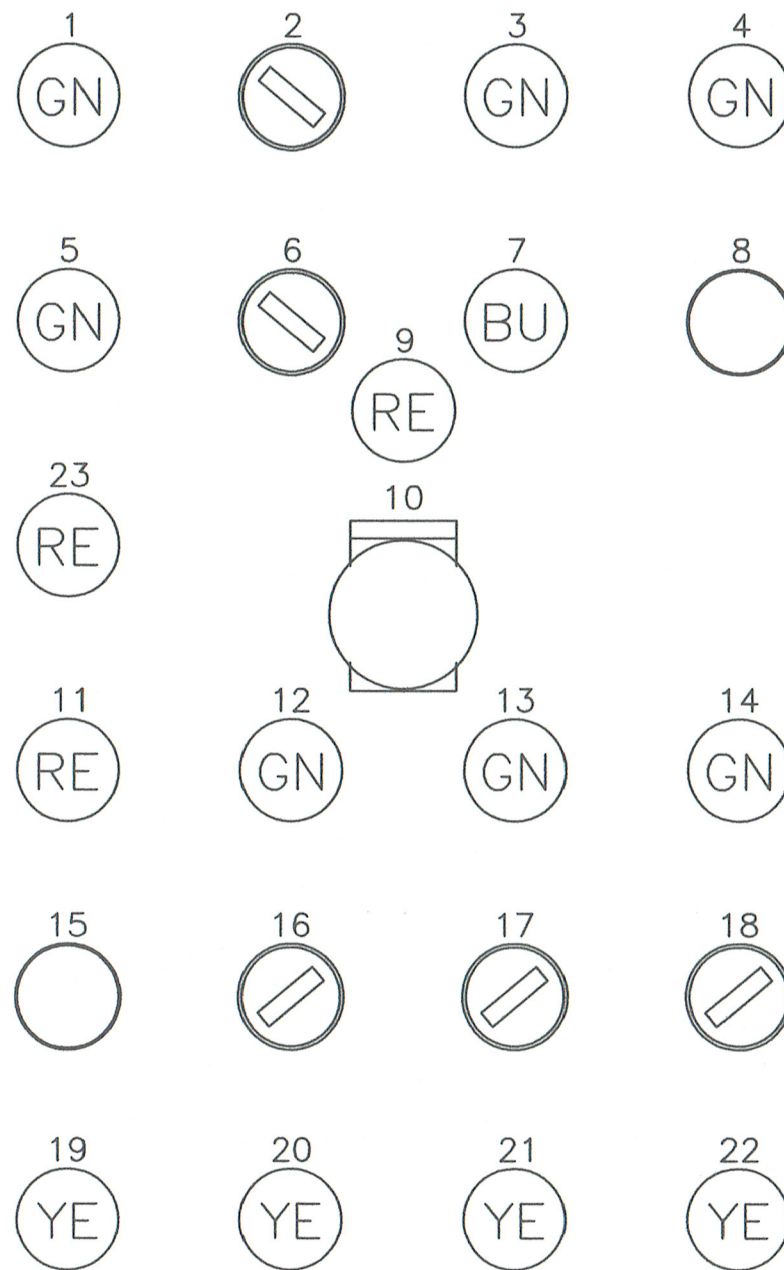
The diagram shows three chlorine controllers, CC-01, CC-02, and CC-03, arranged vertically. Each controller is represented by a rectangular box with a star symbol in the top right corner and a diamond symbol with the number '4' in the bottom left corner. Inside each box, the text reads 'CC-01', 'CC-02', or 'CC-03' followed by 'CHLORINE CONTROLLER'. To the left of each controller, a dashed line points to the text 'TO CHLORINE PUMPS'. Below this text are two small rectangular boxes representing pumps, labeled '3P 01', '3P 02', or '3P 03' for the respective controllers. To the right of each controller, there are two horizontal lines representing electrical terminals, with a bracket and a label ('6R', '7R', or '8R') indicating a connection point. A common vertical line runs along the right side of the controllers, connecting to a transformer at the top right. The transformer is labeled 'TR-1' and has '240VAC' on the primary side and '120VAC' on the secondary side. The secondary winding of the transformer is connected to the common vertical line, which then branches out to the terminal connection points of each chlorine controller.



CP-01

The diagram shows a control panel with 23 numbered buttons arranged in a grid. The buttons are as follows:

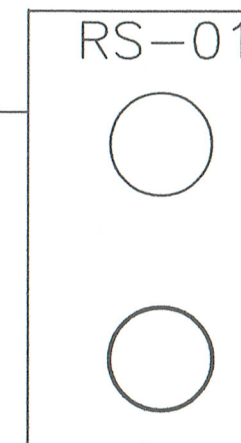
- 1: GN (Green)
- 2: Diagonal line (Red)
- 3: GN (Green)
- 4: GN (Green)
- 5: GN (Green)
- 6: Diagonal line (Red)
- 7: BU (Blue)
- 8: Empty circle (White)
- 9: RE (Red)
- 10: Large circle with a square outline (White)
- 11: RE (Red)
- 12: GN (Green)
- 13: GN (Green)
- 14: GN (Green)
- 15: Empty circle (White)
- 16: Diagonal line (Red)
- 17: Diagonal line (Red)
- 18: Diagonal line (Red)
- 19: YE (Yellow)
- 20: YE (Yellow)
- 21: YE (Yellow)
- 22: YE (Yellow)
- 23: RE (Red)



MAIN CONTROL PANEL CP-01 TO BE
INSTALLED INSIDE PUMP HOUSE. REFER
TO RELAY LOGIC AND SPECS FOR PANEL
DETAILS

CP-01 NOTES	
#	COMPONENT
1	P1 STATUS LIGHT
2	LEAD PUMP P1/P2 SELECTOR
3	P2 STATUS LIGHT
4	FLOW STATUS LIGHT
5	NORMAL MODE LIGHT
6	NORMAL MODE/FIRE SELECTOR
7	FIRE MODE LIGHT
8	MANUAL PURGE PUSH BUTTON
9	EMERGENCY SHUTDOWN STATUS LIGHT
10	EMERGENCY SHUTDOWN PUSH BUTTON
11	PUMPING FAILURE ALARM LIGHT
12	CC-01 STATUS LIGHT
13	CC-02 STATUS LIGHT
14	CC-03 STATUS LIGHT
15	PUMPING FAILURE RESET PUSH BUTTON
16	CC-01 HAND/OFF/AUTO SELECTOR
17	CC-02 HAND/OFF/AUTO SELECTOR
18	CC-03 HAND/OFF/AUTO SELECTOR
19	FILTER 2 ALARM LIGHT
20	FILTER 3 ALARM LIGHT
21	FILTER 4 ALARM LIGHT
22	FILTER 5 ALARM LIGHT
23	CHLORINE MIXING TANK LOW LEVEL ALARM LIGHT

#	COMPONENT
1	P1 STATUS LIGHT
2	LEAD PUMP P1/P2 SELECTOR
3	P2 STATUS LIGHT
4	FLOW STATUS LIGHT
5	NORMAL MODE LIGHT
6	NORMAL MODE/FIRE SELECTOR
7	FIRE MODE LIGHT
8	MANUAL PURGE PUSH BUTTON
9	EMERGENCY SHUTDOWN STATUS LIGHT
10	EMERGENCY SHUTDOWN PUSH BUTTON
11	PUMPING FAILURE ALARM LIGHT
12	CC-01 STATUS LIGHT
13	CC-02 STATUS LIGHT
14	CC-03 STATUS LIGHT
15	PUMPING FAILURE RESET PUSH BUTTON
16	CC-01 HAND/OFF/AUTO SELECTOR
17	CC-02 HAND/OFF/AUTO SELECTOR
18	CC-03 HAND/OFF/AUTO SELECTOR
19	FILTER 2 ALARM LIGHT
20	FILTER 3 ALARM LIGHT
21	FILTER 4 ALARM LIGHT
22	FILTER 5 ALARM LIGHT
23	CHLORINE MIXING TANK LOW LEVEL ALARM LIGHT

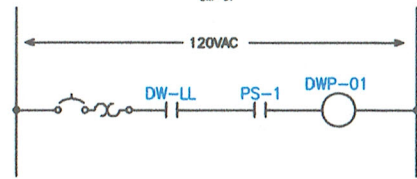


REMOTE OPERATOR STATION RS-01 TO BE INSTALLED ON THE
FILL ARM OUTSIDE. REFER TO RELAY LOGIC AND SPECS FOR
STATION DETAILS.

DOMESTIC WATER PUMP
DWP-01

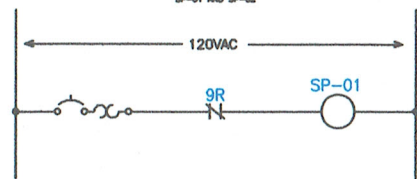
120VAC

DW-LL PS-1 DWP-01



SUMP PUMP -- TYPICAL
SP-01 AND SP-02

The diagram illustrates a simple AC circuit for a sump pump. It starts with a 120VAC power source, represented by two vertical lines. The circuit then passes through a switch (indicated by a break symbol), a 9R fuse (labeled '9R'), and finally to the pump motor (labeled 'SP-01'). The return path goes back to the power source.

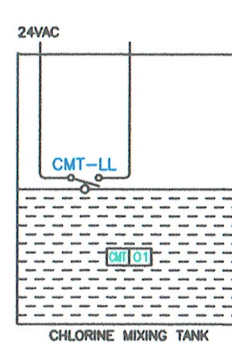


24VAC

CMT-LL

CMT-01

CHLORINE MIXING TANK



2. CONTROL DEVICE (PUSH-BUTTON, PILOT-LIGHT) MOUNTED ON FILL ARM OPERATOR STATION RS-01. REFER TO SPECS FOR DETAILS.
3. PURGE MODE LOCKS PUMPING SYSTEM IN SHUTDOWN AFTER FILL. ADJUST TIME DELAY TO ALLOW WATER TO FLUSH OUT OF THE PUMP DISCHARGE PIPING. REFER TO SEQUENCE OF OPERATION.
4. CHLORINE CONTROLLER BY DIVISION 23. PROVIDE 24V POWER SUPPLY AND START/STOP CONTACT TO CONTROLLER.
5. EXTERIOR LIGHT (RED) FOR SEWAGE TANK HIGH-LEVEL ALARM MOUNTED OUTSIDE ON THE EXTERIOR WALL OF THE PUMP HOUSE.

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GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW WATER PUMP HOUSE

EWING TITLE

**ELECTRICAL
CONTROLS SCHEMATICS**

ENGINEER	CHECKED BY
PROJECT NO ASP16324	DRAWN BY J-M BERGERON
SCALE No Scale	DATE 20/06/2016

DWG NO
ASP16324-01
SHEET NO
4 OF 4