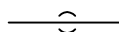

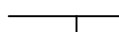

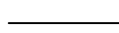

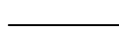




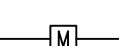
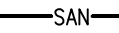


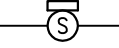
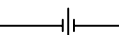

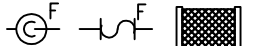




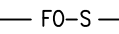

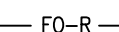

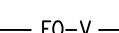





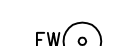

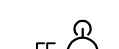
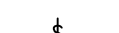
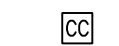
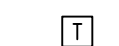



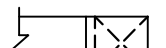
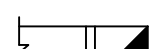
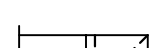

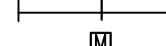
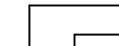
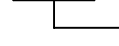


PLUMBING AND HEATING

	PIPE BOTTOM TAKE-OFF		VACUUM BREAKER
	SIMPLE CONNECTION		PUMP
	PIPE CAP		TWO WAY MOTORIZED VALVE
	PIPE CONTINUATION		FLOW CONTROL VALVE
	DRAIN ABOVE SLAB		PRESSURE GAUGE
	DRAIN BELOW SLAB		FLOW METER
	SANITARY DRAIN		FLOOR DRAIN
	CHECK VALVE		SOLENOID VALVE
	UNION TYPE JOINT		DOMESTIC COLD WATER
	FLEXIBLE JOINT		DOMESTIC HOT WATER
	STRAINER		VENT
	BALL VALVE (OPEN)		FUEL OIL, SUPPLY
	BALL VALVE (CLOSE)		FUEL OIL, RETURN
	GATE VALVE (OPEN)		FUEL OIL, VENT
	GATE VALVE (CLOSE)		CHEMICAL FEED, NORMAL OPERATION
	FIRE VALVE		CHEMICAL FEED, FIRE OPERATION
	BUTTERFLY VALVE (NORMALLY OPEN)		EMERGENCY EYE WASH STATION
	BUTTERFLY VALVE (NORMALLY CLOSED)		FIRE EXTINGUISHER
	SAFETY VALVE		CHLORINE CONTROLLER
			ELECTRIC THERMOSTAT

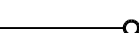
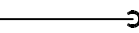
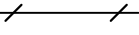
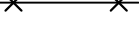



HVAC

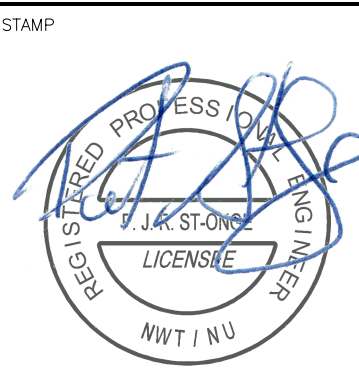
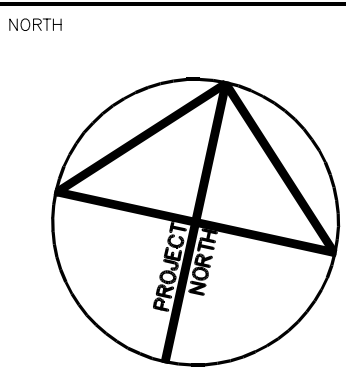
	UPWARD AND DOWNWARD SUPPLY DUCT
	UPWARD AND DOWNWARD RETURN OR EXHAUST DUCT
	SUPPLY DUCT UPWARD
	SUPPLY DUCT DOWNWARD
	RETURN OR EXHAUST DUCT UPWARD
	RETURN OR EXHAUST DUCT DOWNWARD
	MANUAL DAMPER (WITH ACCESS DOOR)
	MOTORIZED DAMPER (WITH ACCESS DOOR)
	GRILLES AND DIFFUSERS IDENTIFICATION TYPE (SEE SPECIFICATION) CAPACITY
	SIZE LITRES PER SECOND

DRAWING LIST

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

GENERAL

	UPWARD
	DOWNWARD
	TO REMAIN
	TO REMOVE
	DISMANTLING POINT
	CONNECTION POINT TO EXISTING
	CAPPED FOR FUTURE CONNECTION



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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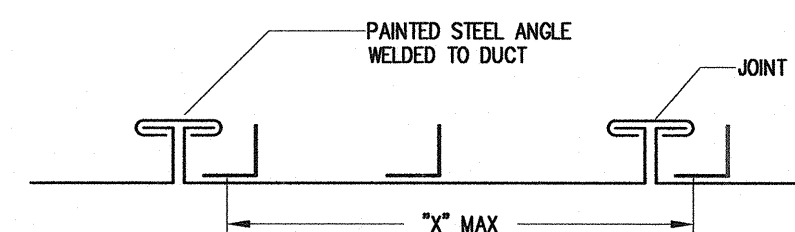
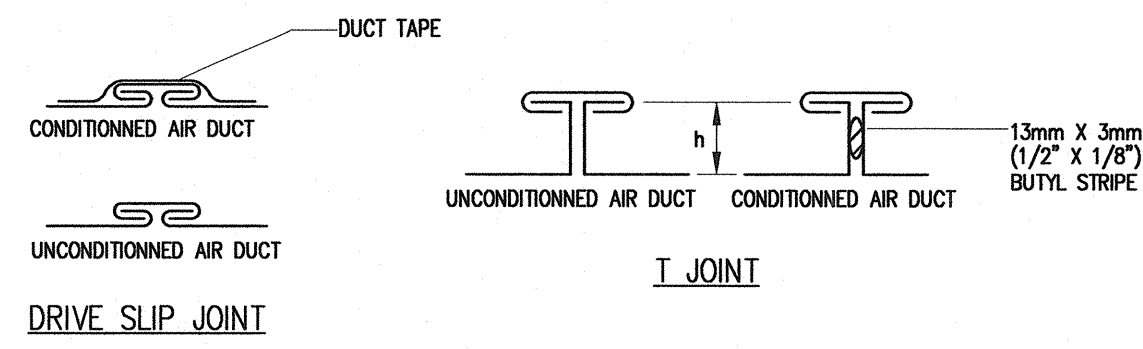
CLIENT
GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
LEGEND AND DRAWING LIST

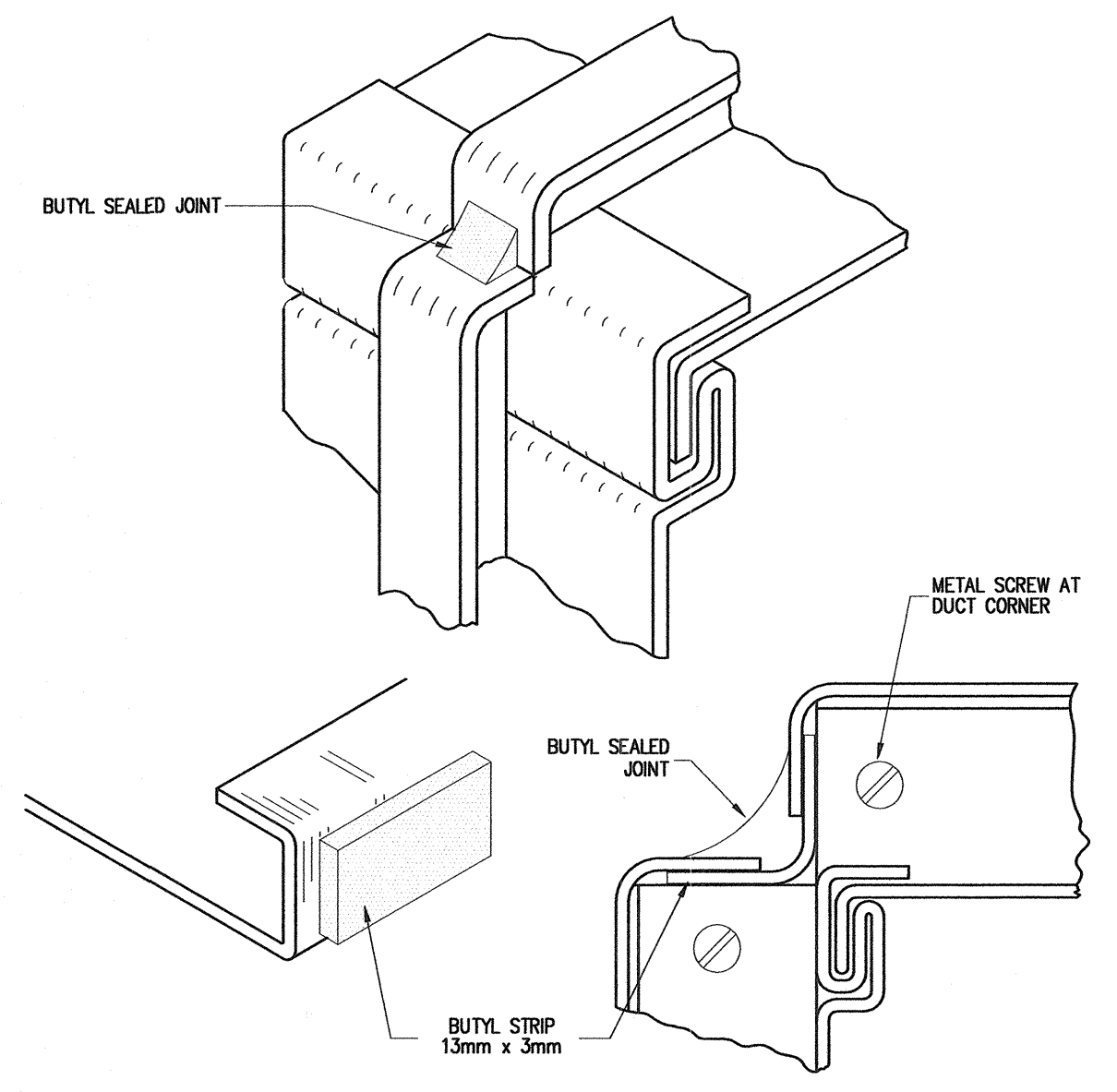
design by	J.F.	project no.	8012-099
drawn by	J.F.	drawing no.	
checked by	P.C.		
date	DECEMBER 2013		
	N.T.S.		

M100

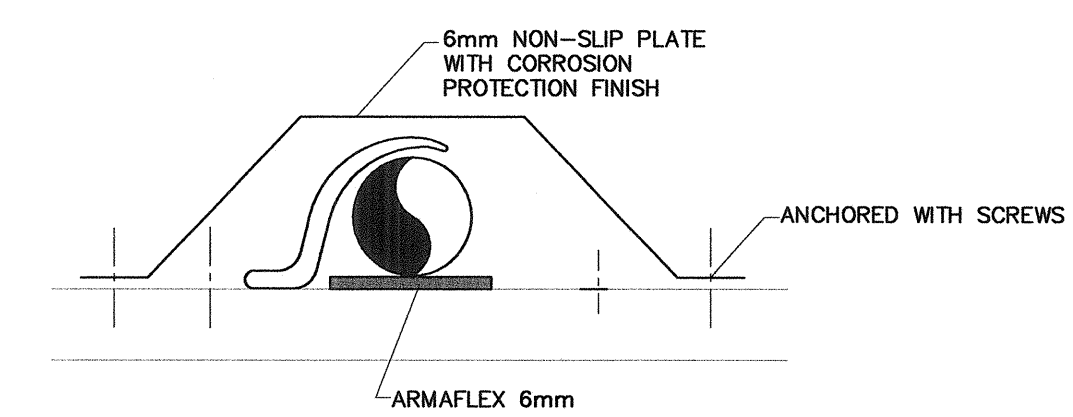


DIMENSIONS mm (in)	SHEET THICKNESS mm (CAL. US)	JOINT TYPE	"h" mm (in)	"x" mm (in)	STEEL ANGLE mm	
					CENTER	END
< 300 (≤ 12)	0.551 (20)	"DRIVE SLIP"	—	2400 (96)	—	—
350 A 750 (14 A 30)	0.701 (24)	"T"	25 (1)	1170 (46)	—	—
800 A 1350 (32 A 54)	0.853 (22)	"T"	35 (1-1/2)	1170 (46)	—	—
1400 A 1500 (56 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 (1-1/2)	1140 (45)	35 X 35 X 3	35 X 35 X 3
2200 ET PLUS (88 ET PLUS)	1.311 (18)	"T"	35 (1-1/2)	1140 (45)	55 X 55 X 3	35 X 35 X 3

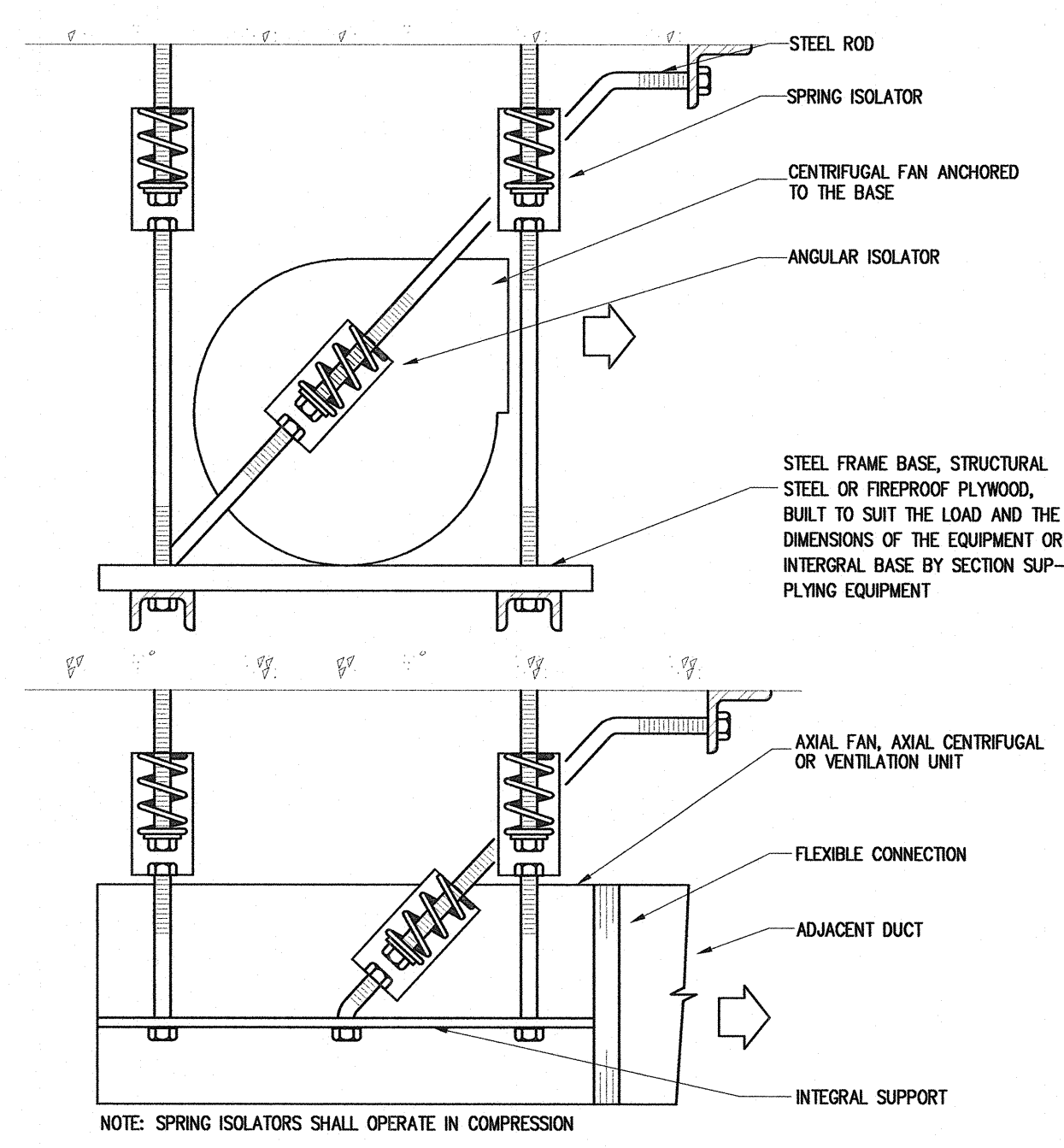
CROSS JOINT AND REINFORCEMENT FOR LOW PRESSURE RECTANGULAR DUCT (NTS)



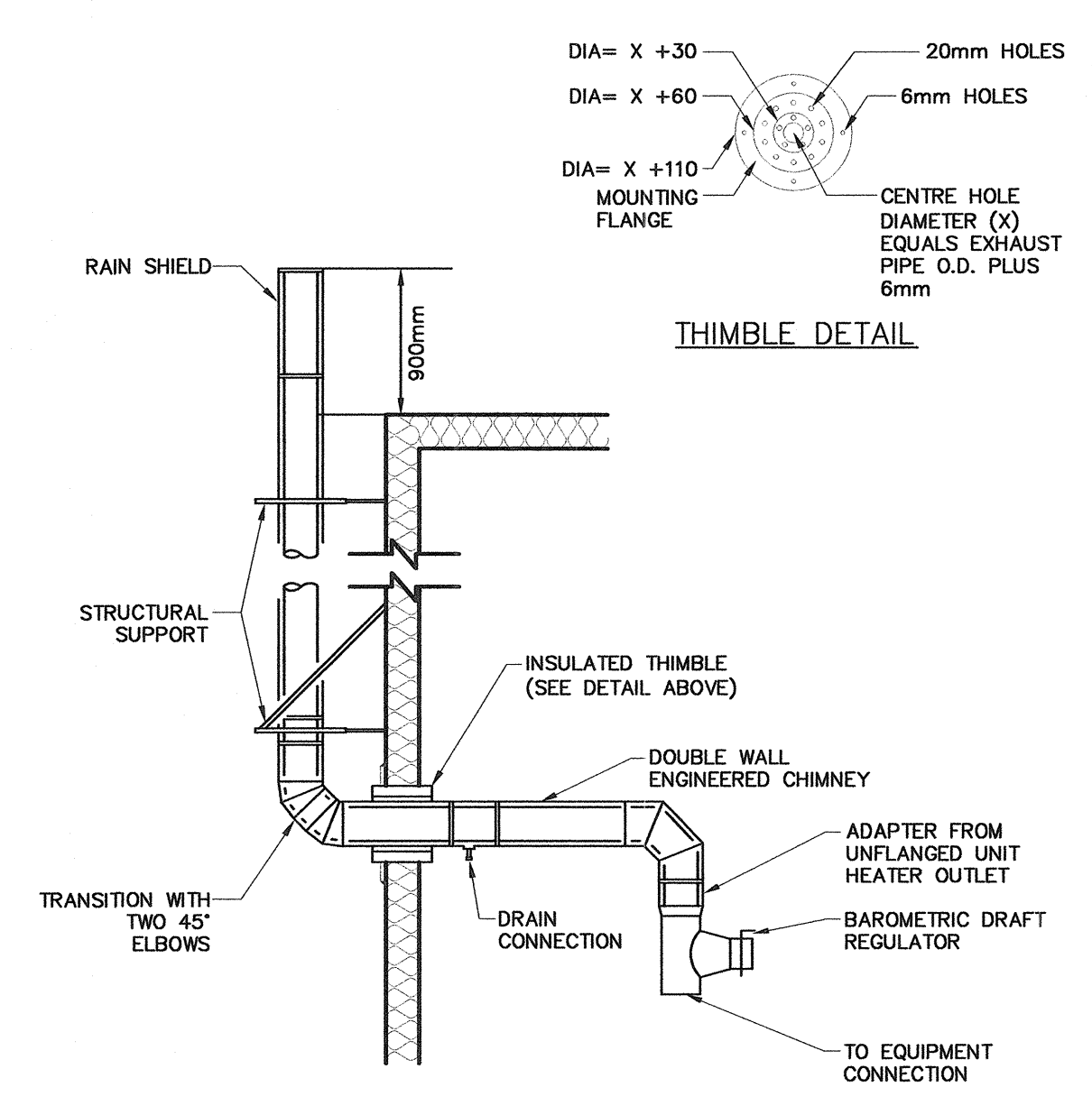
SEALED JOINT FOR LOW PRESSURE RECTANGULAR DUCT (NTS)



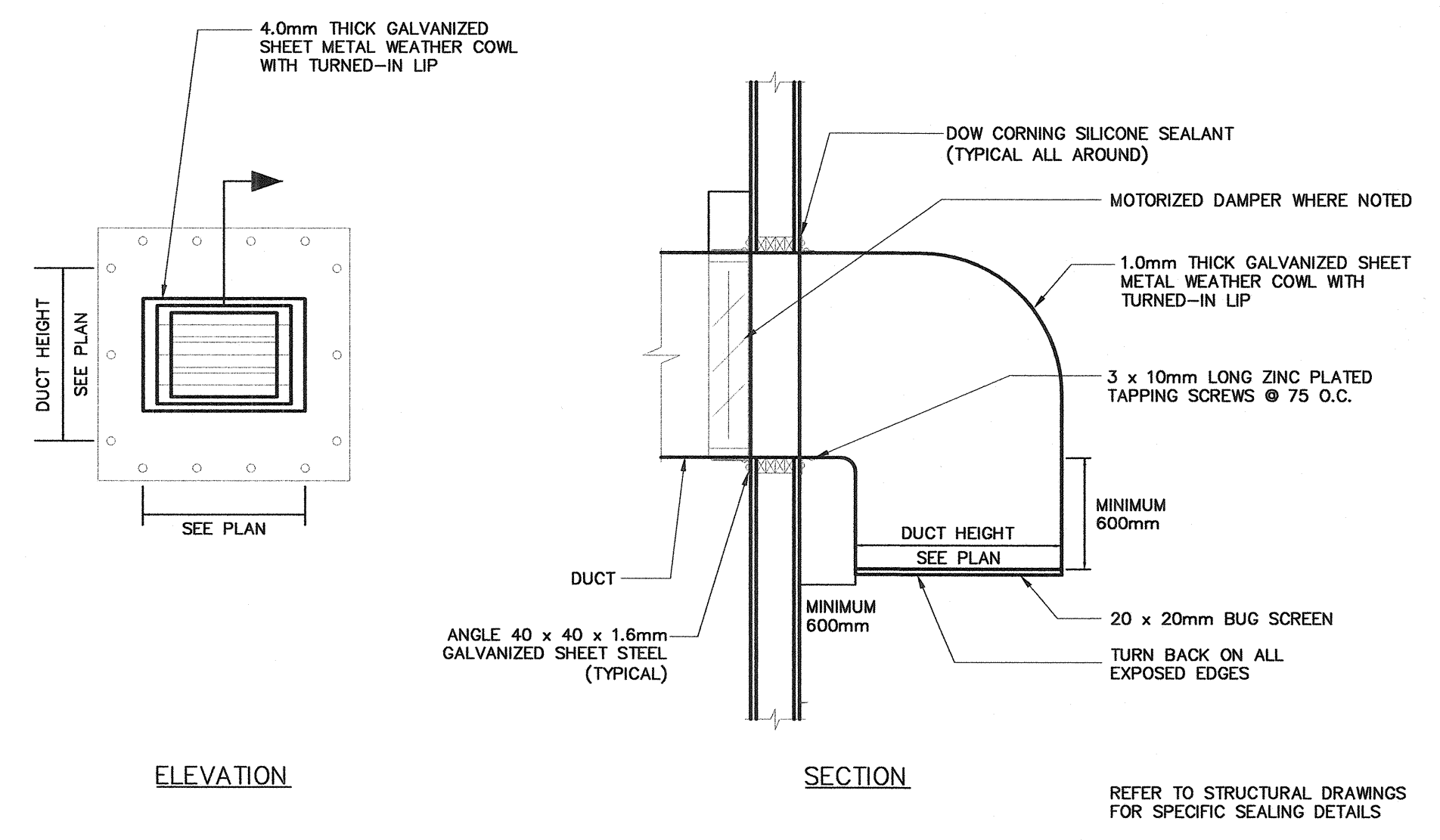
INSTALLATION OF FLOOR MOUNTED PIPES (NTS)



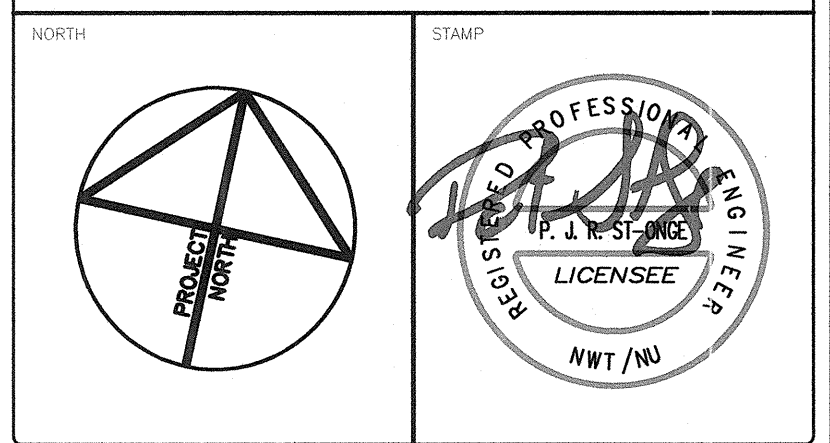
SUSPENDED EQUIPMENT (TYPE VI) (NTS)



UNIT HEATER CHIMNEY DETAIL (NTS)



TYPICAL WEATHER COWL DETAIL (NTS)



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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1	ISSUED FOR TENDER	28/03/2014		

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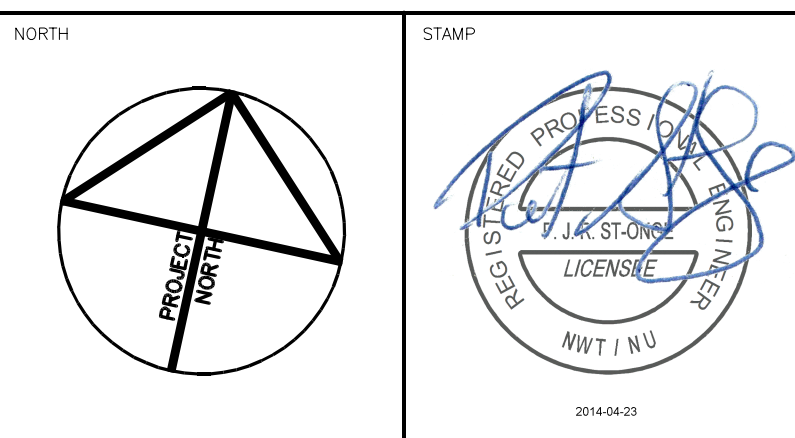
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CLIENT: GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

PROJECT: REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE: MECHANICAL DETAILS	
design by J.F.	project no. 8012-099
drawn by J.F.	drawing no. M101
checked by P.C.	
date DECEMBER 2013	
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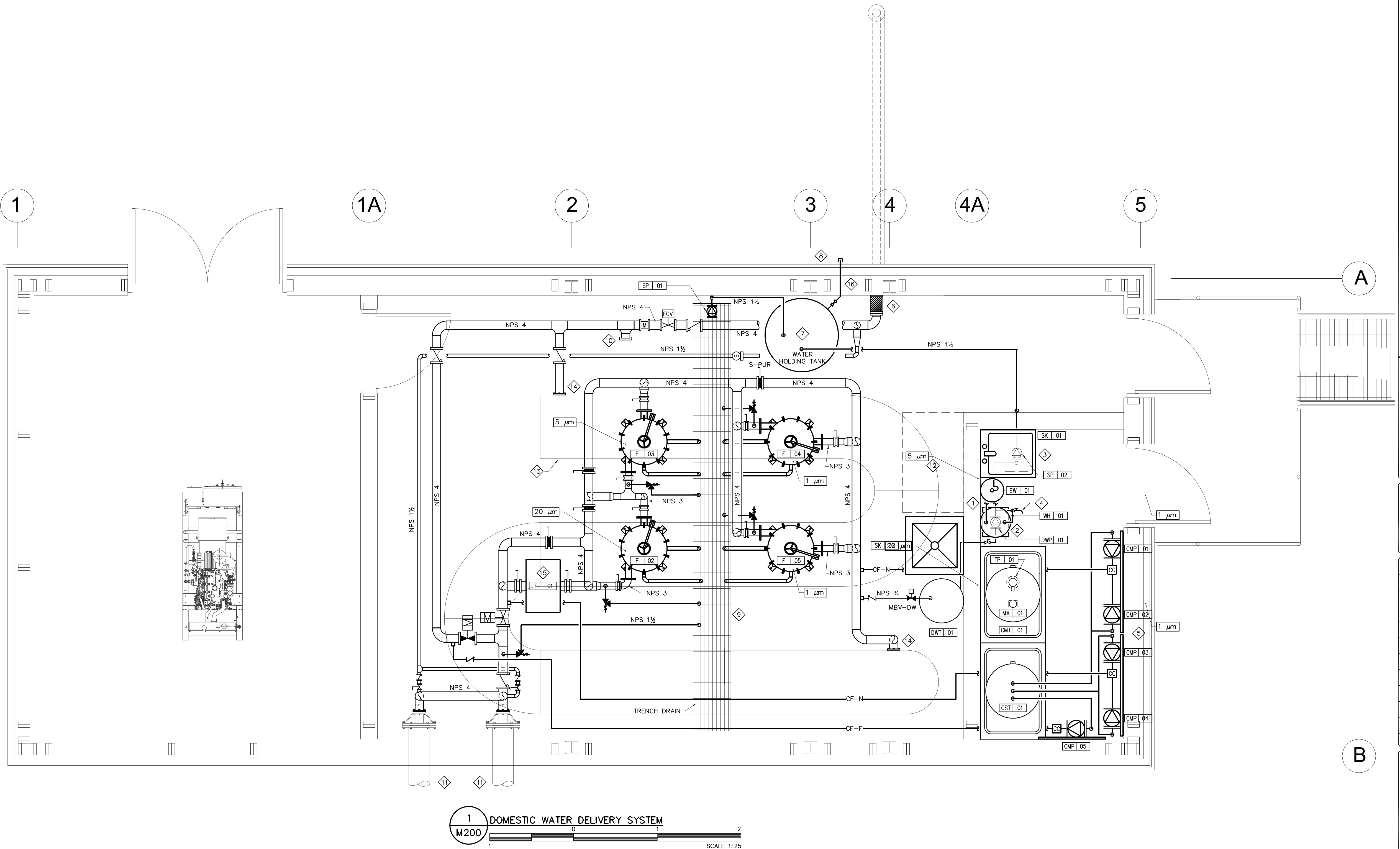
CLIENT
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DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING LAYOUT

design by	J.F.	project no.	8012-099
drawn by	J.F.	drawing no.	
checked by	P.C.		
date	DECEMBER 2013		
	AS SHOWN		

M200



1 DOMESTIC WATER DELIVERY SYSTEM
M200
SCALE 1:25

DRAWING NOTES:

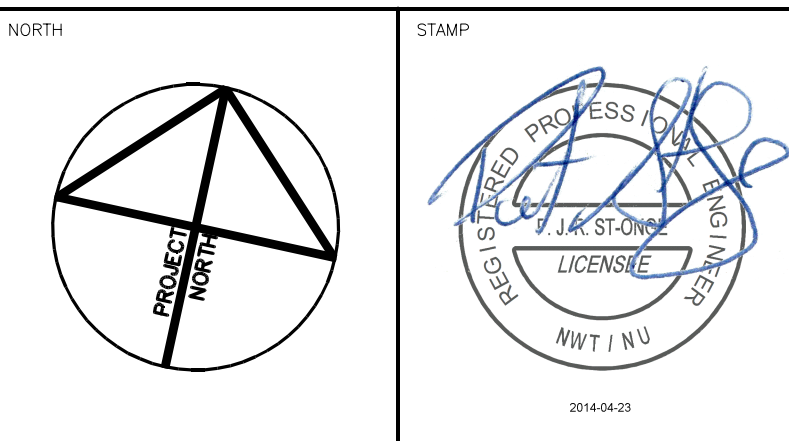
- 1 PROVIDE NPS 1/2 DCW AND DHW PIPING TO EW-01, SK-01, & SK-02 C/W THERMOSTATIC MIXING VALVE NEAR OUTLET OF WH-01.
- 2 WH-01 SUSPENDED AT 2000MM ABOVE FLOOR PLATE. DWP-01 INSTALLED BELOW ON FLOOR PLATE. REFER TO SUSPENDED EQUIPMENT DETAIL M102.
- 3 INSTALL SP-02 DIRECTLY BENEATH SERVICE SINK SK-01. PROVIDE TRAP AND DRAIN SK-01 AND SK-02 DIRECTLY INTO SP-02 TANK.
- 4 PROVIDE NPS 3/4 HOSE BIB CONNECTION NEAR OUTLET OF DWP-01.
- 5 PIPE NPS 1/2 DRAIN FROM CC-01, CC-02 & CC-03 BACK TO SEWAGE TANK.
- 6 CONNECT PIPE TO TRUCK FILL ARM WITH FLEXIBLE JOINT. SEE DETAIL ON STRUCTURAL DRAWING S4.
- 7 SUPPLY AND INSTALL HIGH LEVEL INDICATOR SWITCH COMPLETE WITH RED LIGHT FOR EXTERIOR INSTALLATION. INSTALL SWITCH IN SEWAGE TANK.
- 8 LOCATION FOR THE INSTALLATION OF SEWAGE TANK LEVEL INDICATOR LIGHT.
- 9 TRENCH DRAIN

DRAWING NOTES:

- 10 CAPPED FLANGE CONNECTION FOR FUTURE USE
- 11 INTAKE SHAFT (BY OTHERS) TO MAIN WATER PUMPS WP-01 & WP-02 FROM FLANGE
- 12 SPACE AVAILABLE FOR FUTURE CARBON FILTRATION SYSTEM
- 13 CHLORINE MIXING PIPE
- 14 FLANGED CONNECTION POINT TO CHLORINE MIXING PIPE.
- 15 PROVIDE ADEQUATE SUPPORT FOR THE BASKET FILTER. FILTER TO BE ANCHORED TO THE FLOOR USING A SUPPORT STAND.
- 16 NPS 2 WATER TANK DRAIN LINE. PROVIDE WITH REMOVABLE SCREW ON CAP AND ISOLATION VALVE.

GENERAL NOTES:

- 1 LAYOUT OF CHEMICAL FEED PIPING (CF-N) IS SHOWN SCHEMATICALLY FOR CLARITY. COORDINATE FINAL LAYOUT ON SITE.



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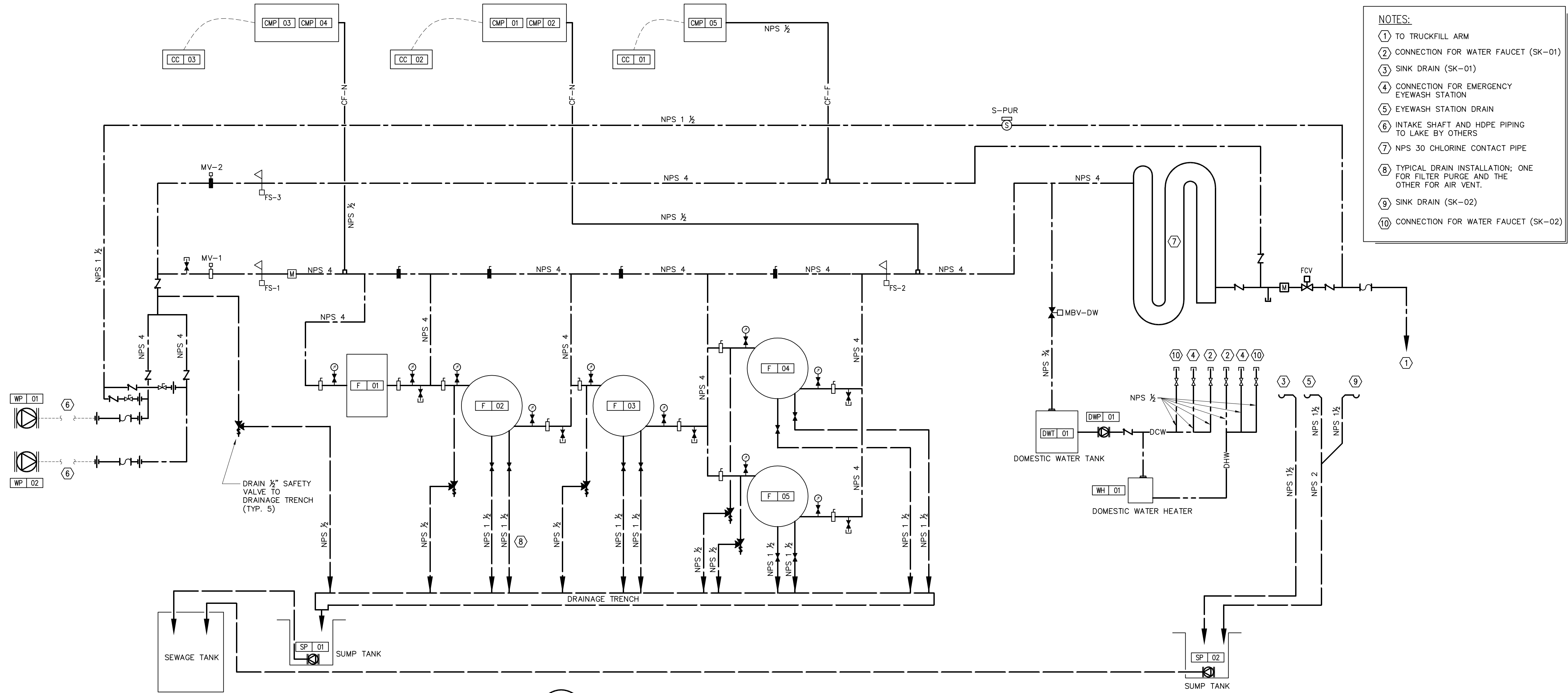
PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING SCHEMATIC

design by	J.F.	project no.	8012-099
drawn by	J.F.	drawing no.	
checked by	P.C.		
date	DECEMBER 2013		
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M201

WATER SYSTEM
HYDRAULIC DIAGRAM



1
M201
DOMESTIC WATER DELIVERY SYSTEM - SCHEMATIC DIAGRAM

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 HDPE 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)