



GRISE FIORD TANK #1 REPAIRS

GRISE FIORD

NUNAVUT

LOCATION PLAN

SCALE: NTS



PROJECT NO.: 20220-00658

ISSUED FOR CONSTRUCTION

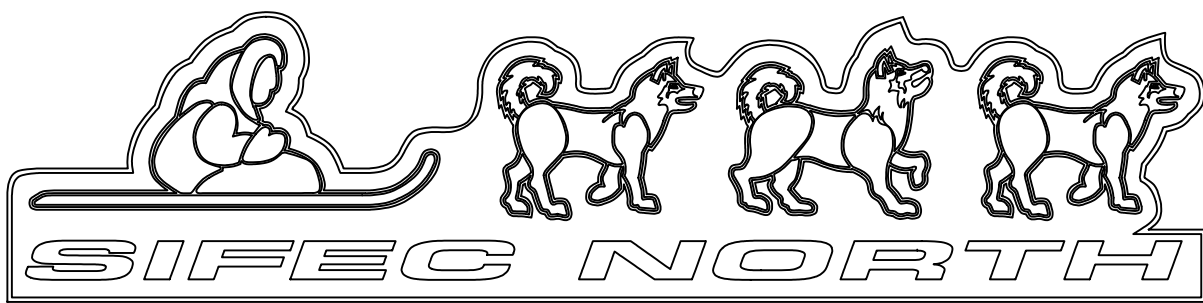
LIST OF DRAWINGS

YGZ04-M010 LOCATION PLAN AND DRAWINGS LIST

MECHANICAL:

ISSUED FOR CONSTRUCTION

YGZ04-M100	LEGEND AND SYMBOLS	REV.1	JUNE/22
YGZ04-M150	MECHANICAL DEMOLITION P.&I.D.	REV.1	JUNE/22
YGZ04-M200	MECHANICAL P.&I.D.	REV.1	JUNE/22
YGZ04-M300	MECHANICAL EQUIPMENT LIST	REV.1	JUNE/22



P.O. Box 556
Rankin Inlet, Nunavut
X0C 0G0
Tel: 855-437-4001
E-Mail: info@sifec.ca

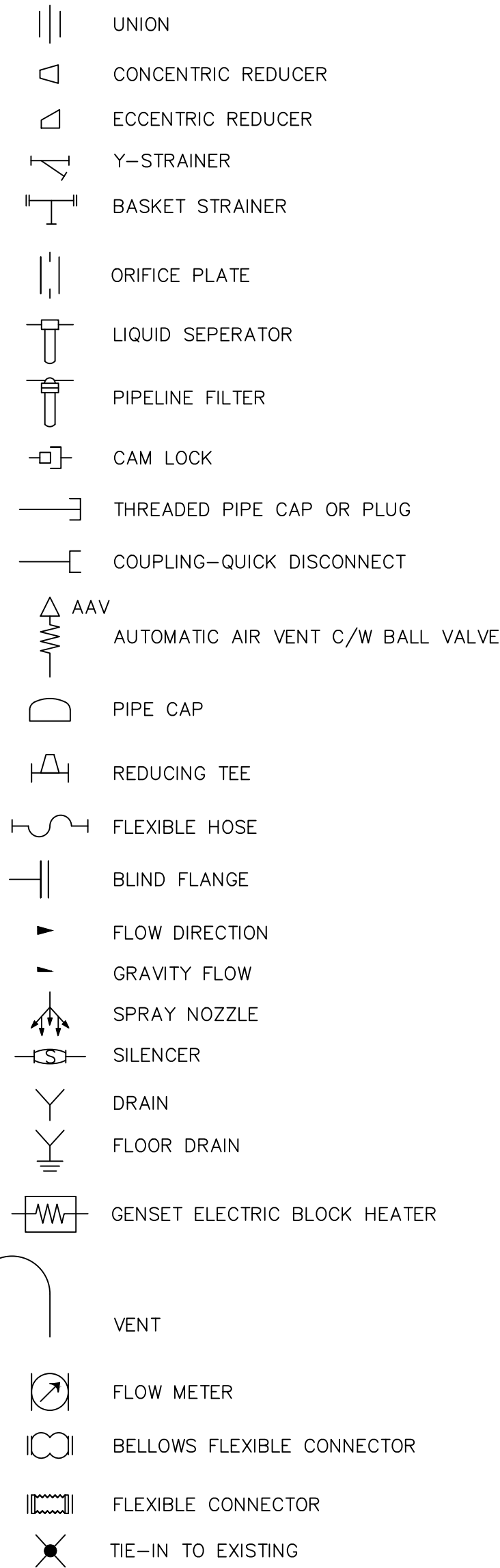
LIST OF REFERENCE DRAWINGS

MECHANICAL:

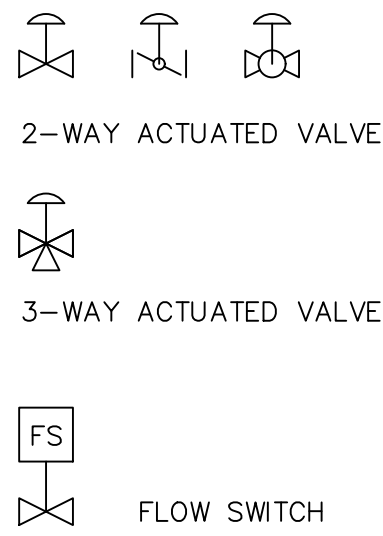
ELECTRICAL:

COVER NO.	REV.	REV. DATE
YGZ04-M010	1	JUNE 2022

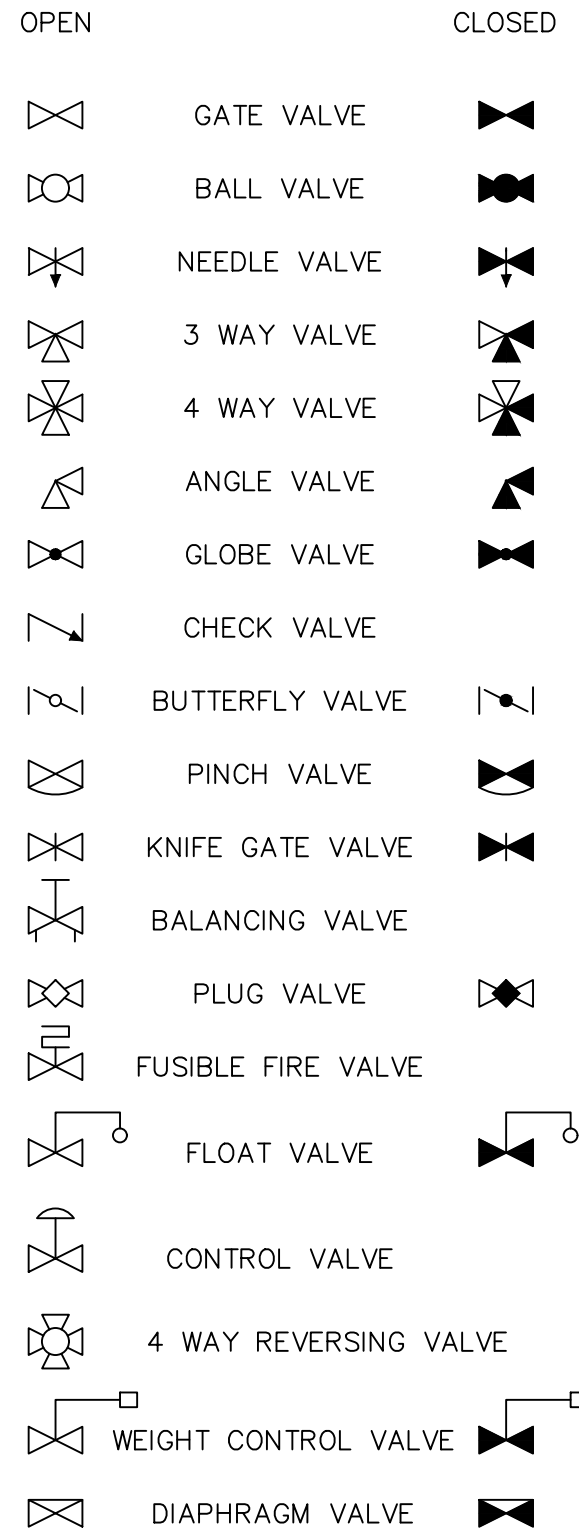
STANDARD LINE ACCESSORIES



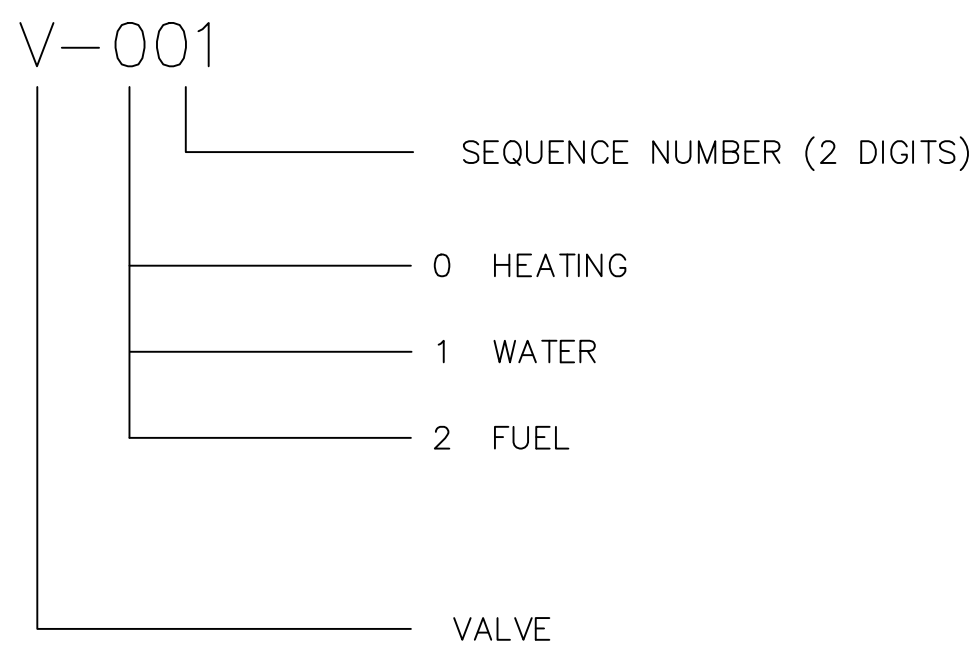
STANDARD VALVE ACTUATOR SYMBOLS



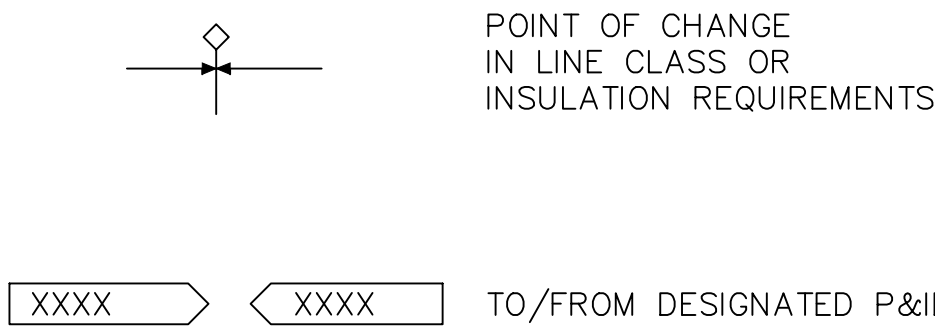
STANDARD VALVE BODY



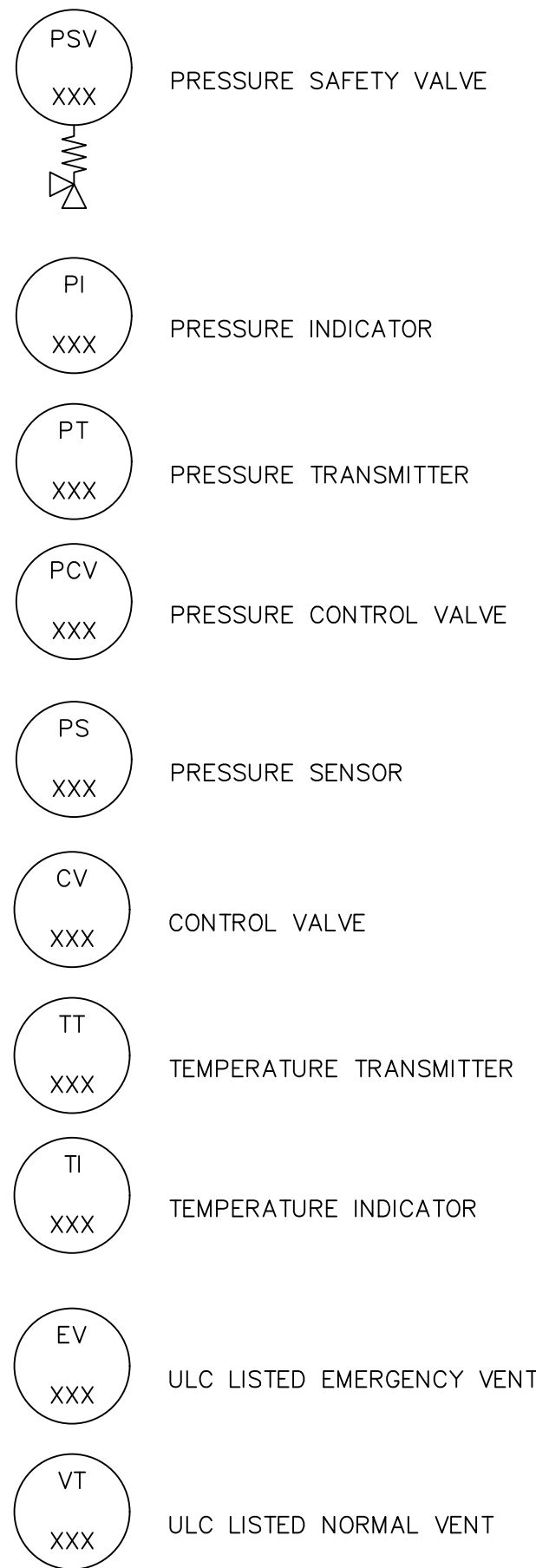
VALVE NUMBERING CONVENTION



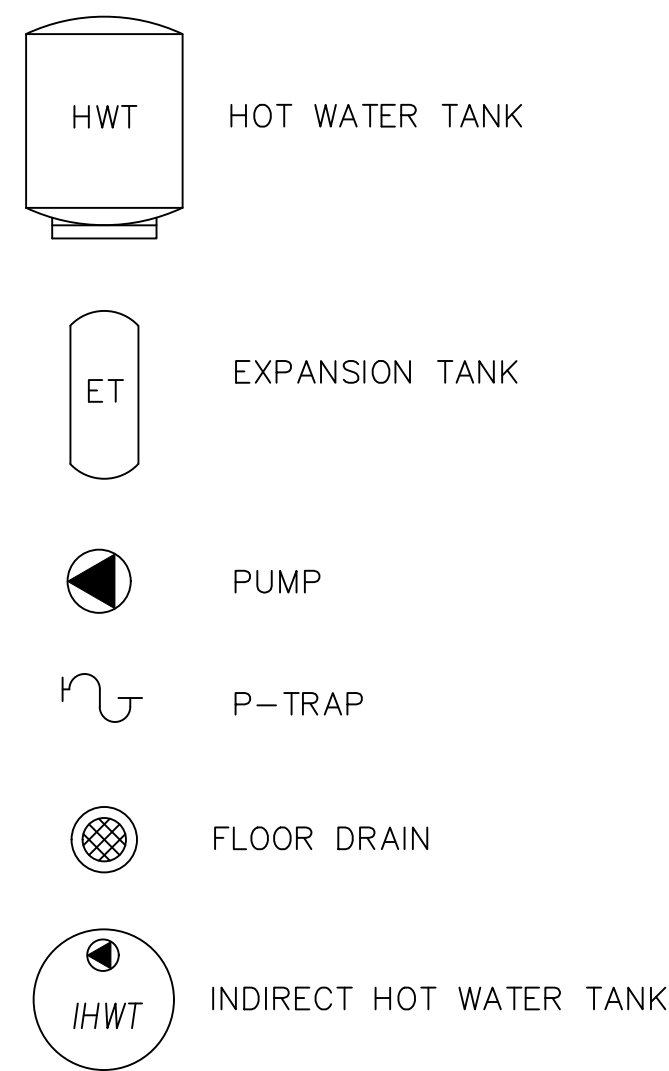
MISC. LINES AND SYMBOLS



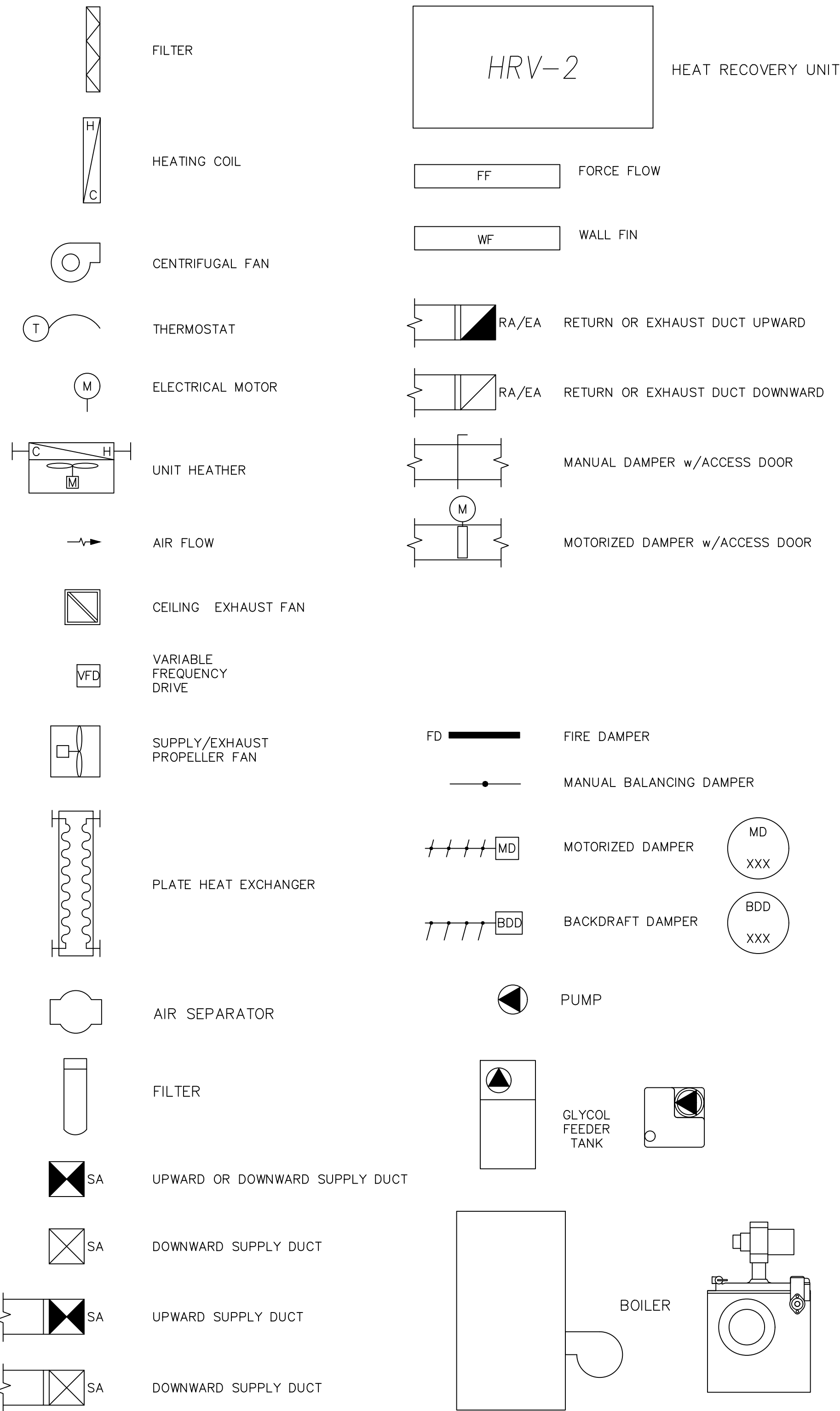
GAUGE & INSTRUMENTATION



PLUMBING AND DRAINAGE SYMBOLS



HVAC SYMBOLS



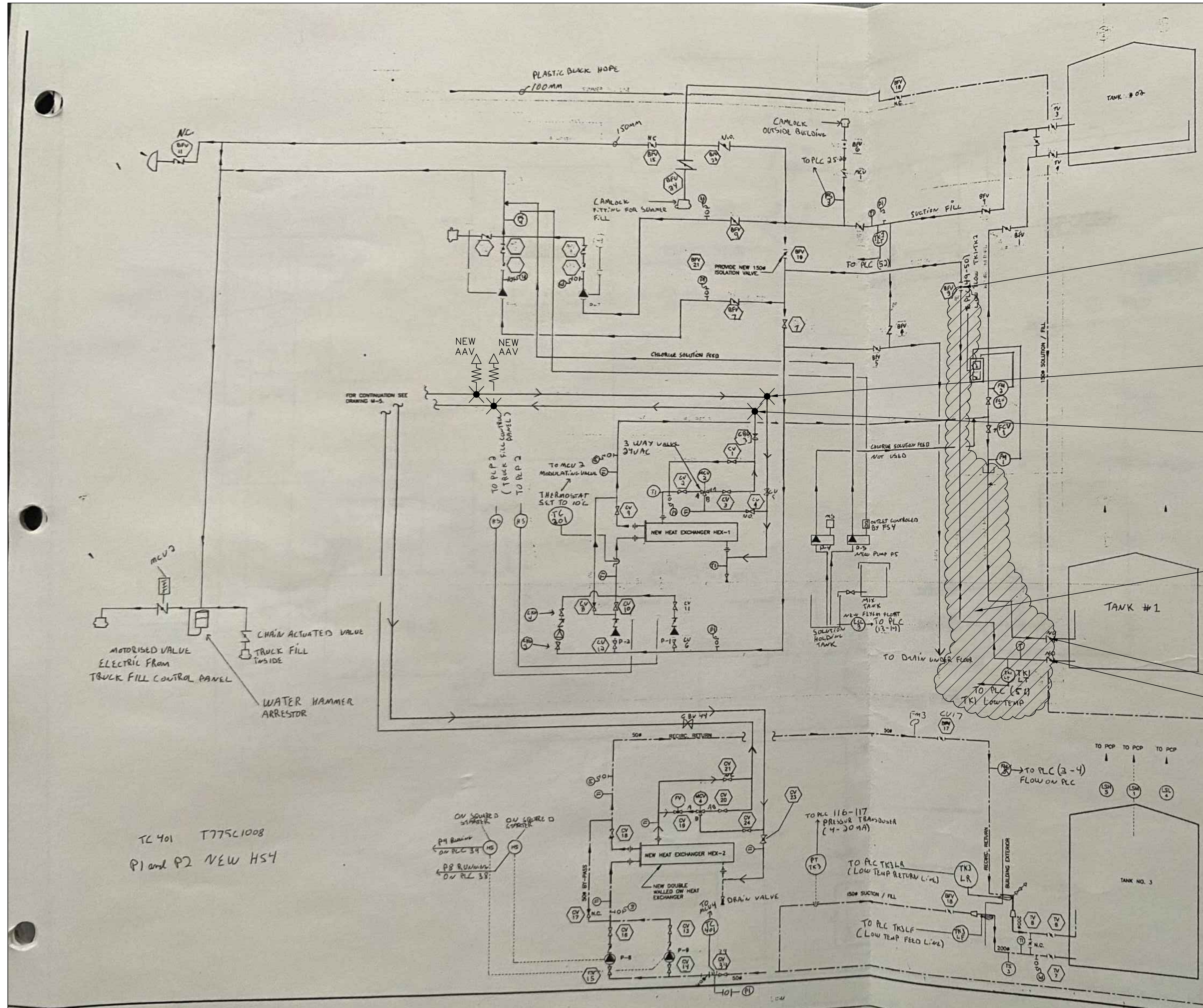
REVISION LETTER	REVISION	PROJECT NUMBER	NAME	DATE	CHECKED BY	DESIGNED BY
1	NEW SYMBOL ADDITION	20220-00658	MH	MAY/22	RF	MH/CF
0	50% DESIGN REVIEW	20220-00658	MH	MAY/22	RF	MH/CF



LOCATION GRISE FIORD NUNAVUT				
TITLE GRISE FIORD WATER TANK #1 REPAIRS LEGEND AND SYMBOLS				
SCALE N.T.S.	SHEET 1 OF 1	DRAWING NO. YG204-M100	REV. 1	REV. DATE JUNE/22

SAVE DATE: JUN/7/2022 5:12:31

FILENAME: \\72-20.0.14\PROJECT\3\FEC\Y0204 - GRISE FIORD TANK NO.1\DWG\FC\Y0204-M150-IFC-REF_07-06-2022.DWG



✕ TIE-IN TO EXISTING

EXISTING 4" BUTTERFLY VALVE TO REMAIN

NEW TEE HOT SIDE HYDRONIC TIE-IN REFER TO PLAN M200

NEW TEE HOT SIDE HYDRONIC TIE-IN REFER TO PLAN M200

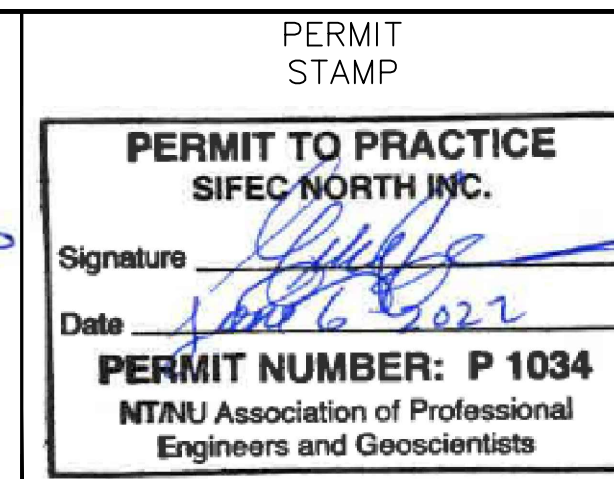
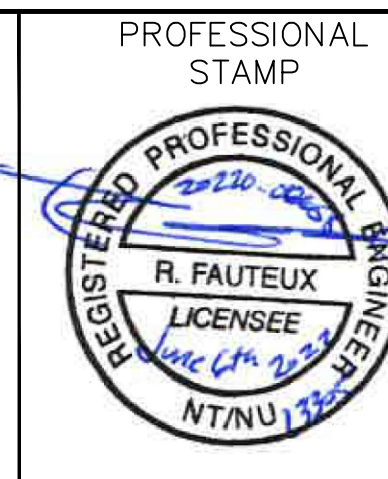
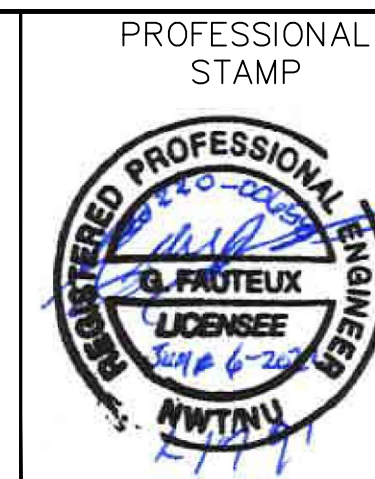
OLD CARBON STEEL PIPE SECTION TO BE REMOVE AND REPLACED AS PER PLAN M200

NEW 2" BUTTERFLY VALVE
NEW 4" BUTTERFLY VALVE

TL 401 T775C1008
P1 and P2 NEW HS4

ON SQUARE 3
ON SQUARE 4
ON SQUARE 5
ON SQUARE 6
ON SQUARE 7
ON SQUARE 8
ON SQUARE 9
ON SQUARE 10
ON SQUARE 11
ON SQUARE 12
ON SQUARE 13
ON SQUARE 14
ON SQUARE 15
ON SQUARE 16
ON SQUARE 17
ON SQUARE 18
ON SQUARE 19
ON SQUARE 20
ON SQUARE 21
ON SQUARE 22
ON SQUARE 23
ON SQUARE 24
ON SQUARE 25
ON SQUARE 26
ON SQUARE 27
ON SQUARE 28
ON SQUARE 29
ON SQUARE 30
ON SQUARE 31
ON SQUARE 32
ON SQUARE 33
ON SQUARE 34
ON SQUARE 35
ON SQUARE 36
ON SQUARE 37
ON SQUARE 38
ON SQUARE 39
ON SQUARE 40
ON SQUARE 41
ON SQUARE 42
ON SQUARE 43
ON SQUARE 44
ON SQUARE 45
ON SQUARE 46
ON SQUARE 47
ON SQUARE 48
ON SQUARE 49
ON SQUARE 50
ON SQUARE 51
ON SQUARE 52
ON SQUARE 53
ON SQUARE 54
ON SQUARE 55
ON SQUARE 56
ON SQUARE 57
ON SQUARE 58
ON SQUARE 59
ON SQUARE 60
ON SQUARE 61
ON SQUARE 62
ON SQUARE 63
ON SQUARE 64
ON SQUARE 65
ON SQUARE 66
ON SQUARE 67
ON SQUARE 68
ON SQUARE 69
ON SQUARE 70
ON SQUARE 71
ON SQUARE 72
ON SQUARE 73
ON SQUARE 74
ON SQUARE 75
ON SQUARE 76
ON SQUARE 77
ON SQUARE 78
ON SQUARE 79
ON SQUARE 80
ON SQUARE 81
ON SQUARE 82
ON SQUARE 83
ON SQUARE 84
ON SQUARE 85
ON SQUARE 86
ON SQUARE 87
ON SQUARE 88
ON SQUARE 89
ON SQUARE 90
ON SQUARE 91
ON SQUARE 92
ON SQUARE 93
ON SQUARE 94
ON SQUARE 95
ON SQUARE 96
ON SQUARE 97
ON SQUARE 98
ON SQUARE 99
ON SQUARE 100

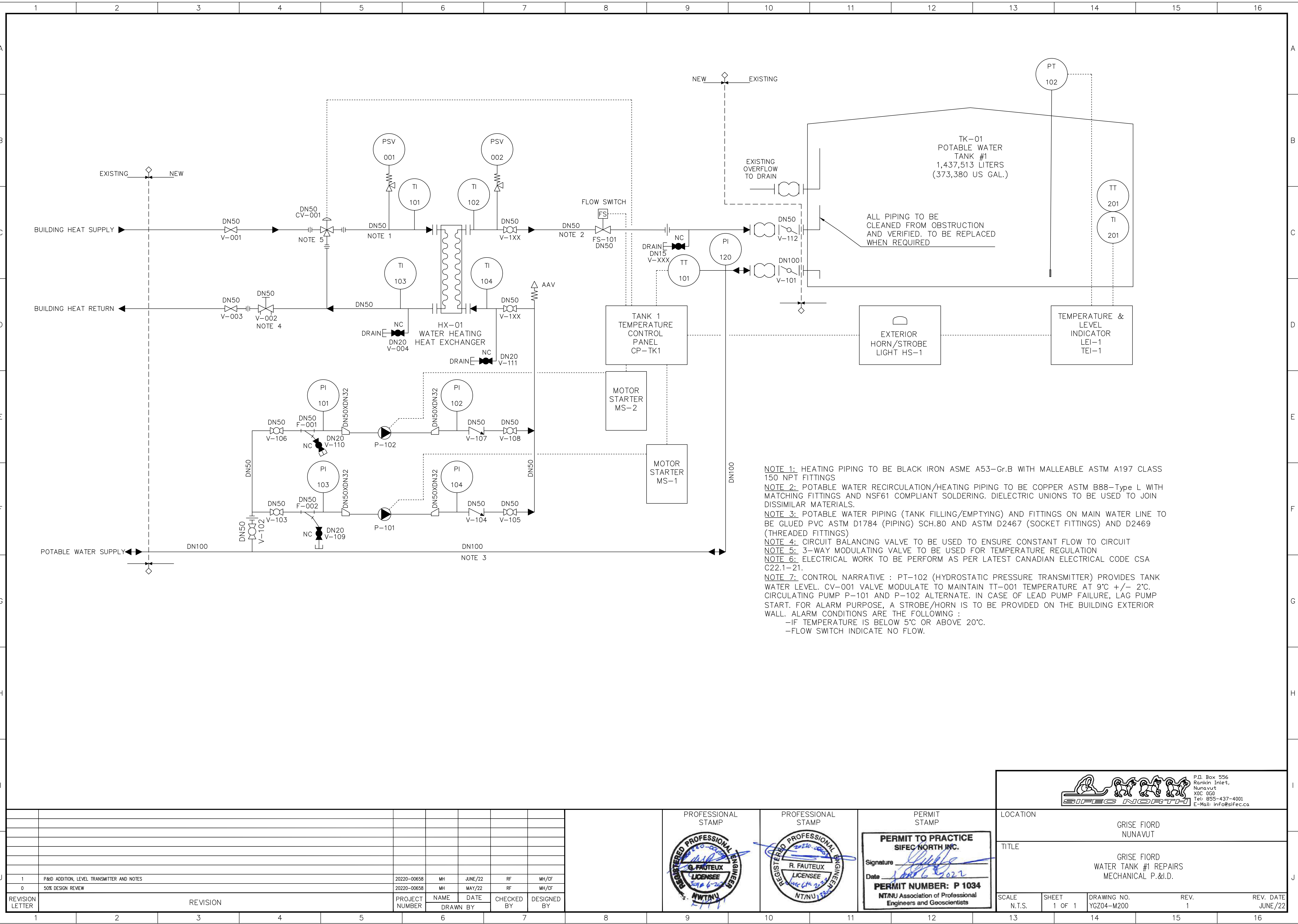
REVISION LETTER	REVISION	PROJECT NUMBER	NAME	DATE	CHECKED BY	DESIGNED BY
1	DEMOLITION PLAN	20220-00658	MH	JUNE/22	RF	MH/CF
0	50% DESIGN REVIEW	20220-00658	MH	MAY/22	RF	MH/CF



LOCATION		GRISE FIORD NUNAVUT	
TITLE		GRISE FIORD WATER TANK #1 REPAIRS DEMOLITION MECHANICAL P.&I.D.	
SCALE	SHEET	DRAWING NO.	REV.
N.T.S.	1 OF 1	YGZ04-M150	1
REV. DATE		JUNE/22	

SAVE DATE: JUN/7/2022 5:12:29

FILENAME: \\72-20.0.14\PROJECT\GISFEC\YGZ04 - GRISE FIORD TANK NO.1\DWG\FC\YGZ04-M200-IFC_RF_02-06-2022.DWG



NOTE 1: HEATING PIPING TO BE BLACK IRON ASME A53-Gr.B WITH MALLEABLE ASTM A197 CLASS 150 NPT FITTINGS
NOTE 2: POTABLE WATER RECIRCULATION/HEATING PIPING TO BE COPPER ASTM B88-Type L WITH MATCHING FITTINGS AND NSF61 COMPLIANT SOLDERING. DIELECTRIC UNIONS TO BE USED TO JOIN DISSIMILAR MATERIALS.
NOTE 3: POTABLE WATER PIPING (TANK FILLING/EMPTYING) AND FITTINGS ON MAIN WATER LINE TO BE GLUED PVC ASTM D1784 (PIPING) SCH.80 AND ASTM D2467 (SOCKET FITTINGS) AND D2469 (THREADED FITTINGS)
NOTE 4: CIRCUIT BALANCING VALVE TO BE USED TO ENSURE CONSTANT FLOW TO CIRCUIT
NOTE 5: 3-WAY MODULATING VALVE TO BE USED FOR TEMPERATURE REGULATION
NOTE 6: ELECTRICAL WORK TO BE PERFORM AS PER LATEST CANADIAN ELECTRICAL CODE CSA C22.1-21.
NOTE 7: CONTROL NARRATIVE : PT-102 (HYDROSTATIC PRESSURE TRANSMITTER) PROVIDES TANK WATER LEVEL. CV-001 VALVE MODULATE TO MAINTAIN TT-001 TEMPERATURE AT 9°C +/- 2°C. CIRCULATING PUMP P-101 AND P-102 ALTERNATE. IN CASE OF LEAD PUMP FAILURE, LAG PUMP START. FOR ALARM PURPOSE, A STROBE/HORN IS TO BE PROVIDED ON THE BUILDING EXTERIOR WALL. ALARM CONDITIONS ARE THE FOLLOWING :
-IF TEMPERATURE IS BELOW 5°C OR ABOVE 20°C.
-FLOW SWITCH INDICATE NO FLOW.

REVISION LETTER	REVISION	PROJECT NUMBER	NAME	DATE	CHECKED BY	DESIGNED BY
1	P&ID ADDITION, LEVEL TRANSMITTER AND NOTES	20220-00658	MH	JUNE/22	RF	MH/CF
0	50% DESIGN REVIEW	20220-00658	MH	MAY/22	RF	MH/CF

PROFESSIONAL STAMP

PROFESSIONAL STAMP

PERMIT STAMP

PERMIT TO PRACTICE
SIFEC NORTH INC.

Signature: *[Signature]*
Date: *June 6, 2022*

PERMIT NUMBER: P 1034
NTNU Association of Professional Engineers and Geoscientists

		P.O. Box 556 Rankin Inlet, Nunavut X0C 0G0 Tel: 855-437-4001 E-Mail: info@sifec.ca	
LOCATION GRISE FIORD NUNAVUT			
TITLE GRISE FIORD WATER TANK #1 REPAIRS MECHANICAL P.&I.D.			
SCALE N.T.S.	SHEET 1 OF 1	DRAWING NO. YGZ04-M200	REV. 1
REV. DATE JUNE/22			

[illegible]