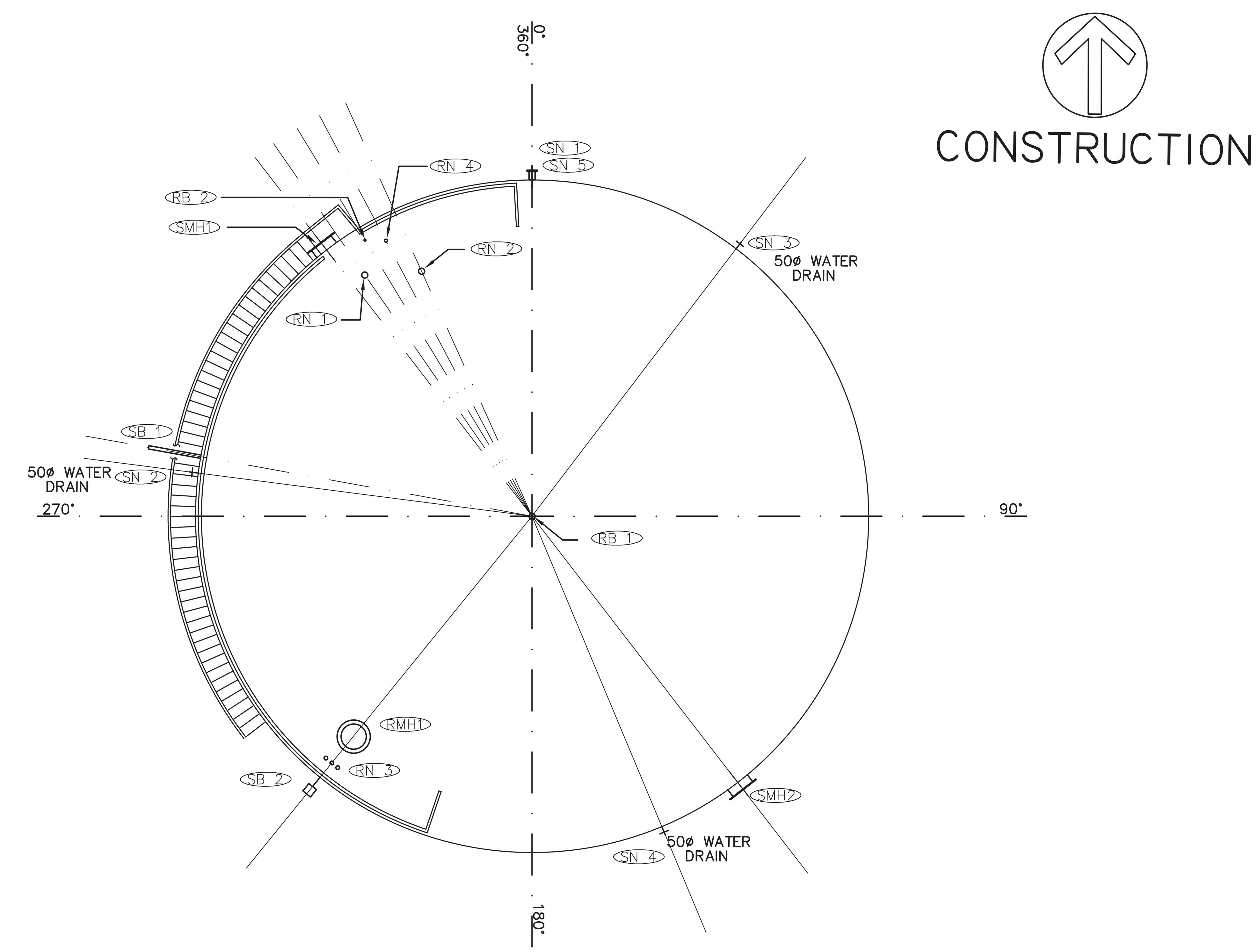
ORIENTATION PLAN – NEW LSDL VERTICAL TANK

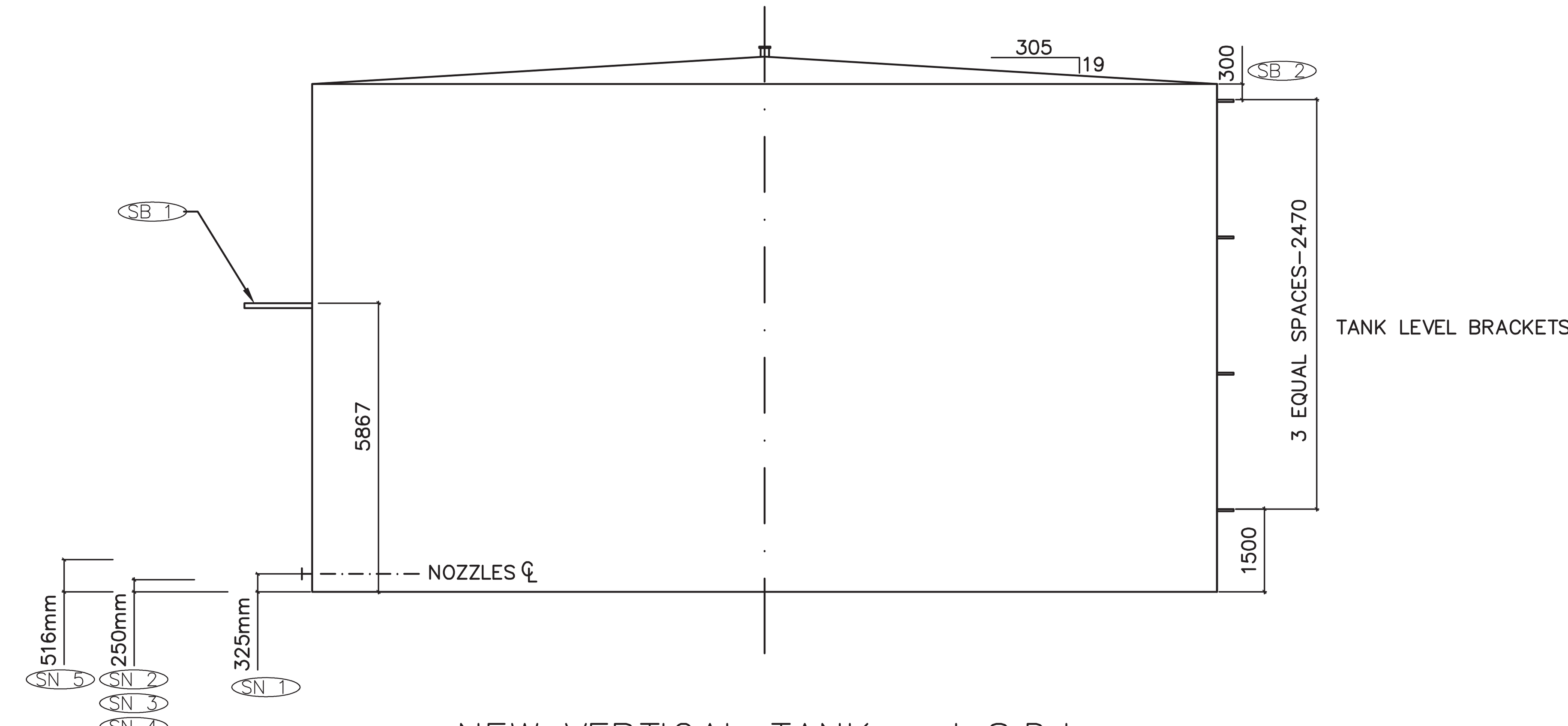
LIST OF REQUIRED APPURTENANCES FOR VERTICAL TANKS

ITEM	SIZE	ELEV. ABOVE BASE RING	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
SN1	150 ø	325	LCB cast steel gate valve, tank inlet/outlet	Nozzle. See Specification for Details	0
SMH1	610 ø	740	Manhole Access, c/w Cover 810 ø, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts, two handles 165 x 90 x 16 mm	See Specification for Details	322
SN2	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	277
SB2	–	–	Automatic tape type level gauge, metric units tape	See Standard Detail Drawing 1–M10 and Specifications for Details	219
–	–	–	Beginning of Tank Stairs (Clockwise Run)	See Standard Detail Drawing 2–M9 and Specifications for Details	232
SN3	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	37
SB1	–	5,867	Tank Stair Light Bracket	See Standard Detail Drawing 4–M9 and Specifications for Details	280
SMH2	610 ø	740	Manhole Access, c/w Cover 810 ø, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts, two handles 165 x 90 x 16 mm	See Specification for Details	142
–	–	–	Beginning of upper deck	See Standard Detail Drawing 2–M9 and Specifications for Details	321
–	–	–	End of upper deck	See Standard Detail Drawing 2–M9 and Specifications for Details	328
SN4	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	157
SN5	25 ø	516	Pressure Relief Valve	See Standard Detail Drawing 2–M10 and Specifications for Details	0

LIST OF ROOF APPURTENANCES FOR VERTICAL TANKS

ITEM	SIZE	HOR. LOCATION FROM EDGE OF SHELL (To CL)	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
RN1	150 ø	900	150 ø Flanged gauge hatch	See Specification for Details	325
RN2	150 ø	1,500	PV Vent	See Specification for Details	336
RN3	varies	450	Connections for automatic level gauge	See Standard Detail Drawing 1–M10 and Specifications for Details	219
RMH1	610 ø	1,100	Roof Manhole, Cover 810 ø m, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts,	See Specification for Details	219
RB1	100 ø	Middle of tank	Cable support post		–
RN4	75 ø	450	Coupling for future electronic level gauge	See Standard Detail Drawing 4–M10 and Specifications for Details	332
RB2	–	180	Socket for Light Fixture Post	See Standard Detail Drawing 5–M9 and Specifications for Details	329





NEW VERTICAL TANK – L.S.D.L.

16.4M Dia. x 9.2M H. – 1933 cu. m.

Record Drawing

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NO.	REVISION DESCRIPTION	DATE ISSUED
03	RECORD DRAWINGS	2013/11/01
02	ISSUED FOR TENDER	2011/06/08
01	ISSUED FOR 95% REVIEW	2011/03/25
00	ISSUED FOR 50% REVIEW	2011/02

PROFESSIONAL SEAL / PERMIT TO PRACTICE

PERMIT TO PRACTICE
STANTEC ARCHITECTURE LTD.
Signature
Date
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

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ARCHITECTS & ENGINEERS
Unit C, 1088 Mivvik Street, Box 1779
Iqaluit, NU, X0A 0H0, Canada
T 867.979.0555 | F 867.979.5711

PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION: CHESTERFIELD INLET, NU

DRAWING TITLE: NEW LSDL VERTICAL TANK

DRAWN BY	AF	SCALE	1:100
CHECKED BY	WO	CLIENT PROJECT NO.	10-3018
FSC PROJECT NO.	2010-1160		
DRAWING NO.	M1	OF	45

ORIENTATION PLAN – NEW GASOLINE VERTICAL TANK

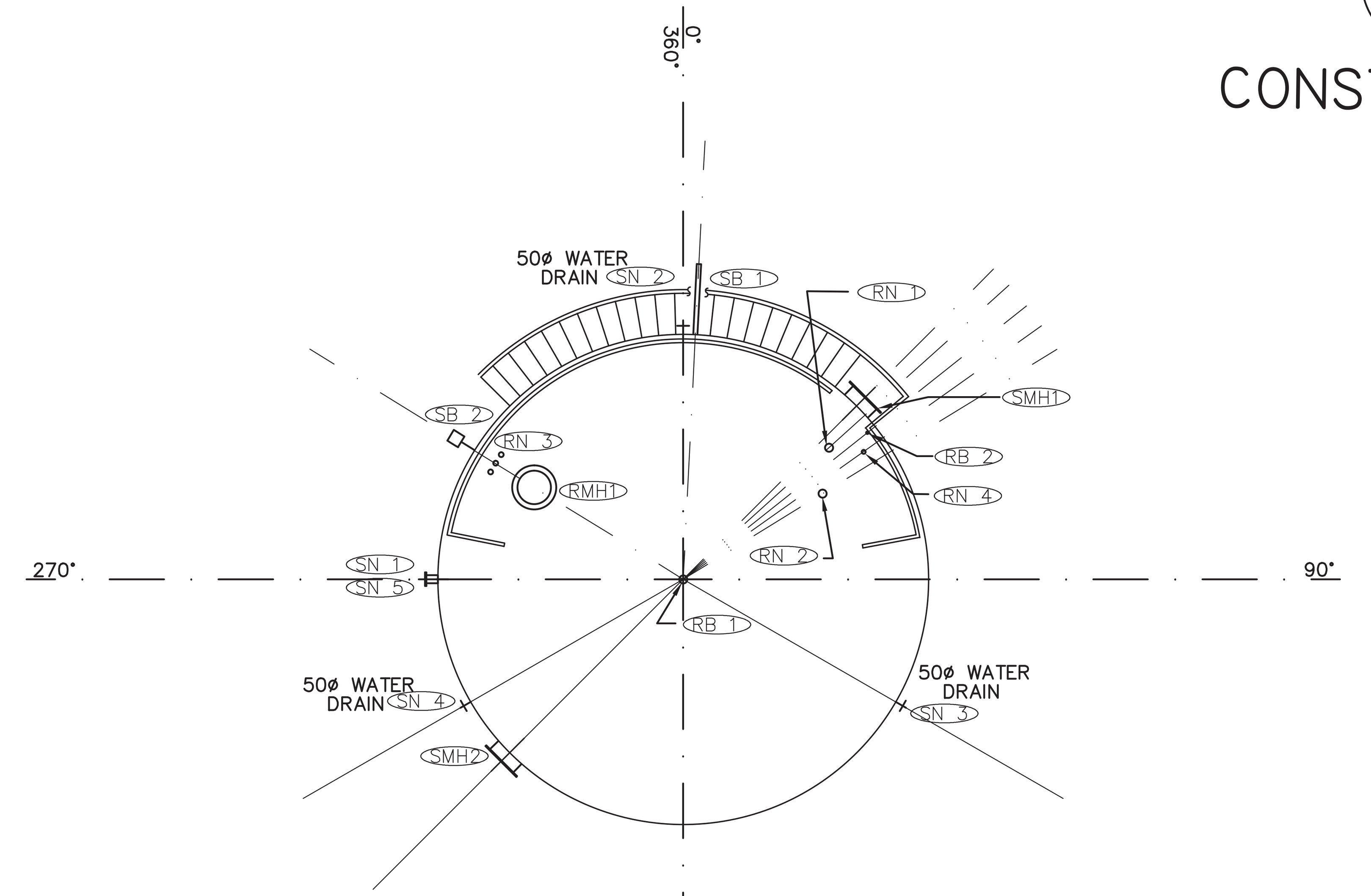
LIST OF REQUIRED APPURTENANCES FOR VERTICAL TANKS

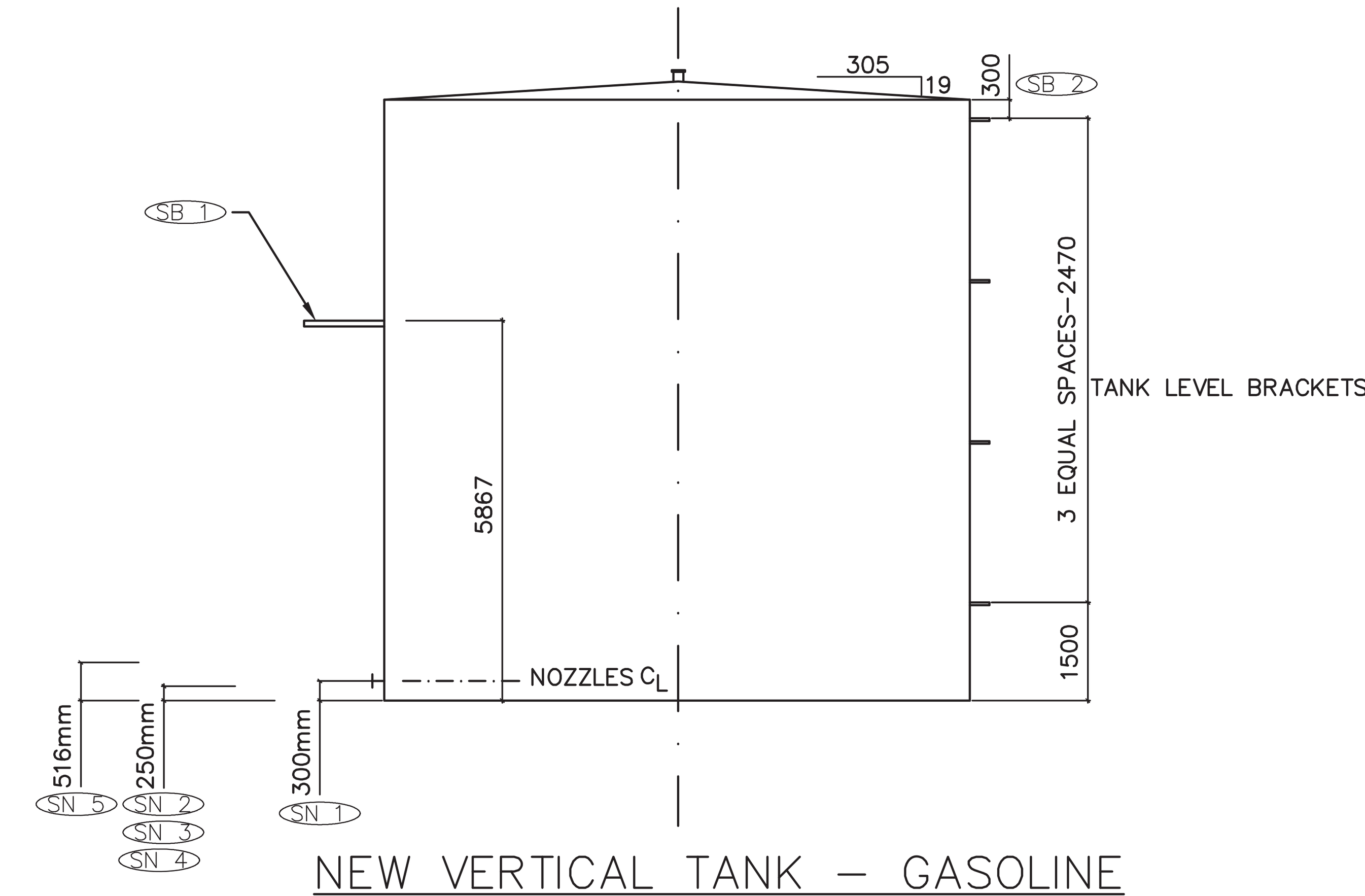
ITEM	SIZE	ELEV. ABOVE BASE RING	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
SN1	100 ø	300	LCB cast steel gate valve, tank inlet/outlet	Nozzle. See Specification for Details	270
SMH1	610 ø	740	Manhole Access, c/w Cover 810 ø, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts, two handles 165 x 90 x 16 mm	See Specification for Details	45
SN2	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	0
SB2	–		Automatic tape type level gauge, metric units tape	See Standard Detail Drawing 1–M10 and Specifications for Details	302
			Beginning of Tank Stairs (Clockwise Run)	See Standard Detail Drawing 2–M9 and Specifications for Details	45
SN3	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	120
SB1		5,867	Tank Stair Light Bracket	See Standard Detail Drawing 4–M9 and Specifications for Details	3
SMH2	610 ø	740	Manhole Access, c/w Cover 810 ø, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts, two handles 165 x 90 x 16 mm	See Specification for Details	225
			Beginning of upper deck	See Standard Detail Drawing 2–M9 and Specifications for Details	38
			End of upper deck	See Standard Detail Drawing 2–M9 and Specifications for Details	50
SN4	50 ø	250	Water Drain Valve	See Standard Detail Drawing 3–M10 and Specifications for Details	240
SN5	25 ø	516	Pressure Relief Valve	See Standard Detail Drawing 2–M10 and Specifications for Details	270

LIST OF ROOF APPURTENANCES FOR VERTICAL TANKS

ITEM	SIZE	HOR. LOCATION FROM EDGE OF SHELL (To CL)	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
RN1	150 ø	900	150 ø Flanged gauge hatch	See Specification for Details	48
RN2	150 ø	1,500	PV Vent	See Specification for Details	58
RN3	varies	450	Connections for automatic level gauge	See Standard Detail Drawing 1–M10 and Specifications for Details	302
RMH1	610 ø	1,100	Roof Manhole, Cover 810 ø m, Neck 610 ø, flange thickness 11 mm, Cover thickness 13 mm, 28 bolts,	See Specification for Details	302
RB1	100 ø	Middle of tank	Cable support post		–
RN4	75 ø	450	Coupling for future electronic level gauge	See Standard Detail Drawing 4–M10 and Specifications for Details	54
RB2		180	Socket for Light Fixture Post	See Standard Detail Drawing 5–M9 and Specifications for Details	51

CONSTRUCTION





NEW VERTICAL TANK – GASOLINE

9.0M Dia. x 9.2M H. – 582 cu. m.

Nunavut

Record Drawing

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01	ISSUED FOR 95% REVIEW	2011/03/25
00	ISSUED FOR 50% REVIEW	2011/02

PROFESSIONAL SEAL / PERMIT TO PRACTICE

PERMIT TO PRACTICE
STANTEC ARCHITECTURE LTD.
Signature
Date 9 SEPT 2015
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
A.F. JOHNSON
NWT/NU

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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE
NEW GASOLINE VERTICAL TANK

DRAWN BY	SCALE
AF	1:100
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M2

OF 45

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FSC – ANSI-D – 22x34

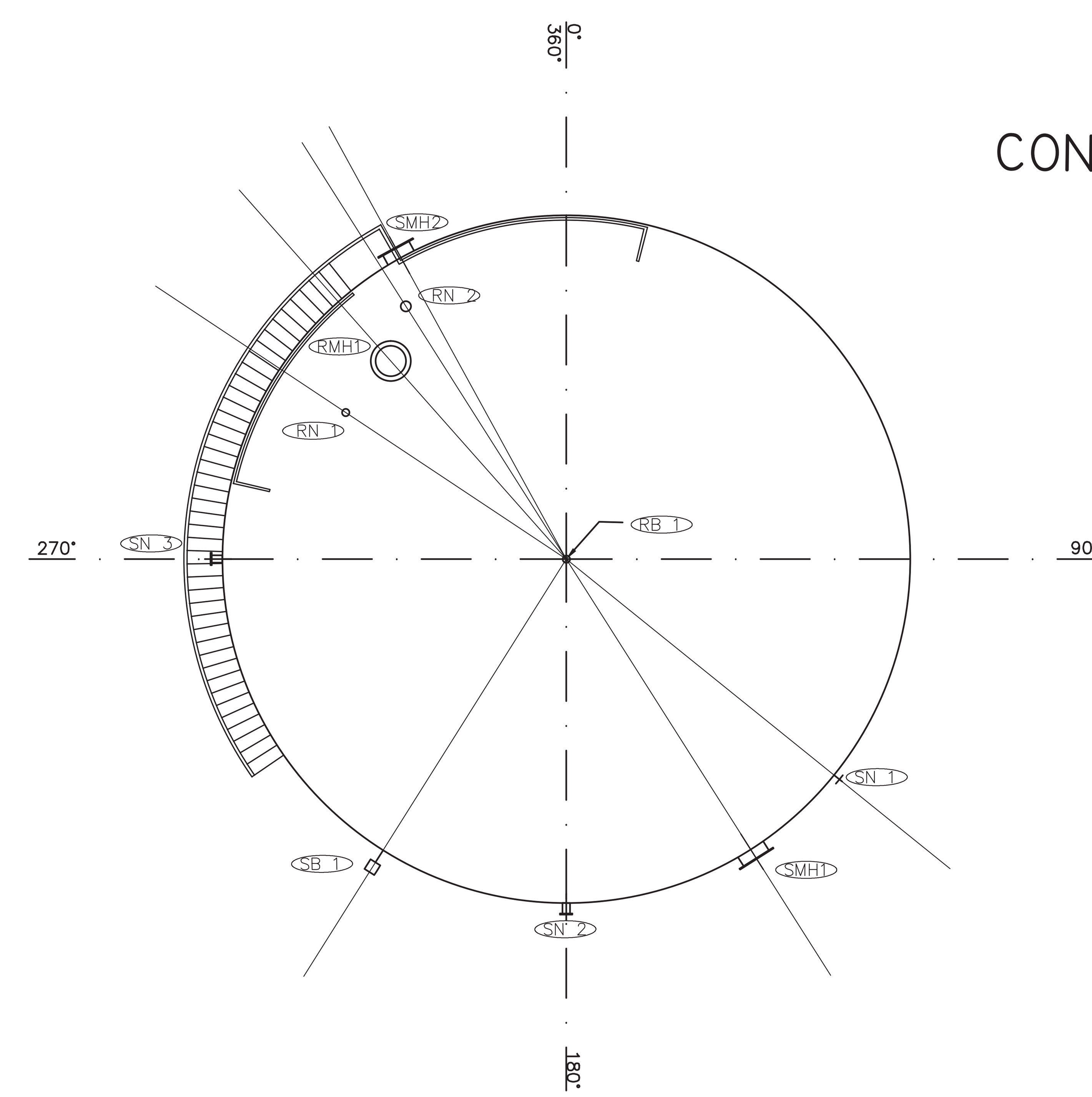
ORIENTATION PLAN – RELOCATED VERTICAL TANK

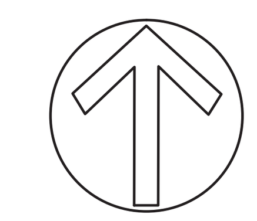
LIST OF SIDE APPURTENANCES FOR VERTICAL TANK

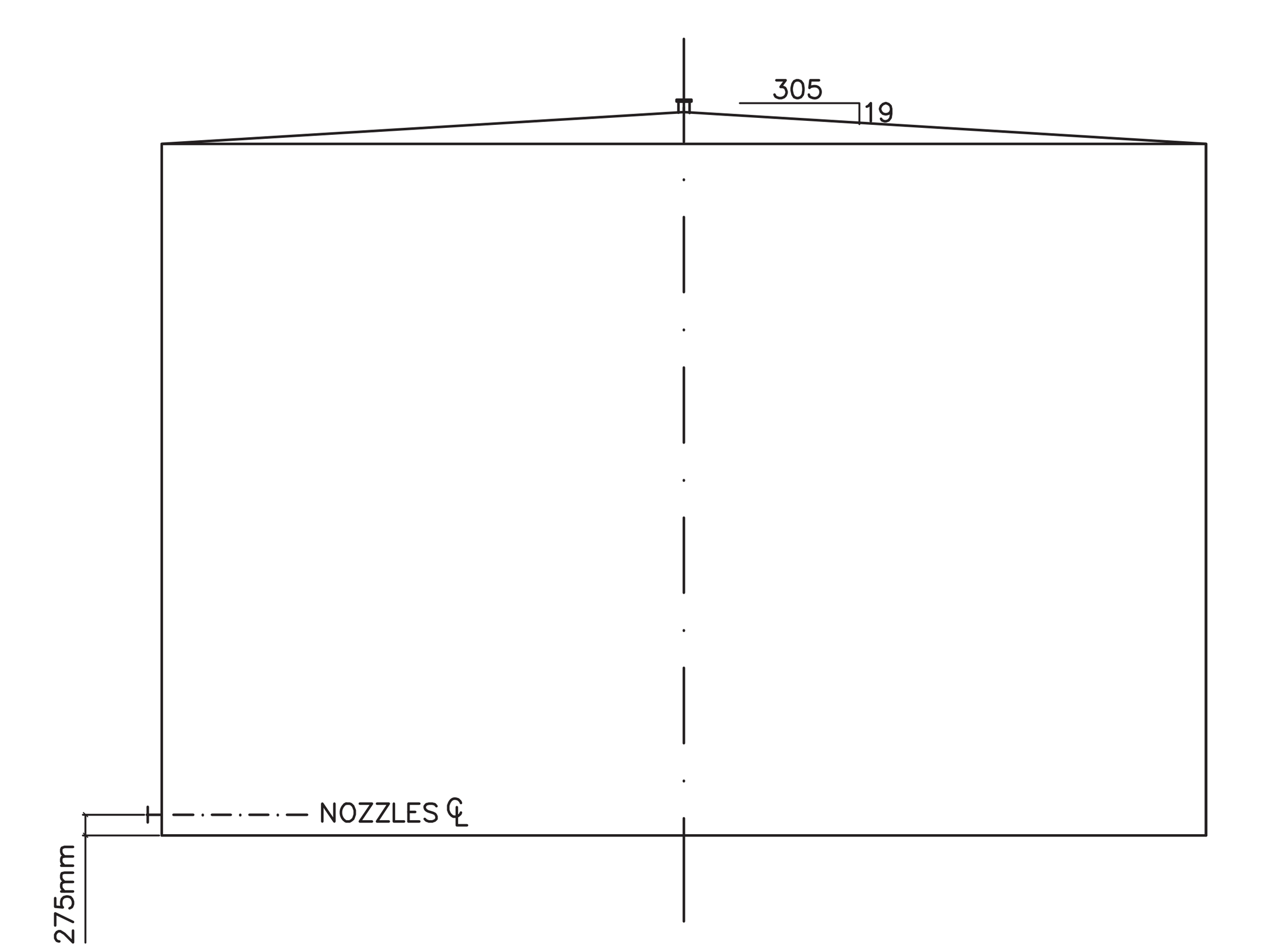
ITEM	SIZE	ELEV. ABOVE BASE RING	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
SN1	–	–	Water Drain Valve	Replace with New Valve – See Specification for Details	129
SMH1	800 ø	–	Manhole Access	Existing	148
SN2	150 ø	–	Existing Tank Inlet/Outlet	Existing Valve – Cap, See Specifications for Details	180
SB1	–	–	Automatic Tank Gauge	Replace with New – See Specification for Details	212
SN3	150 ø	275	New LCB Cast Steel Gate Valve, Tank Inlet/Outlet	New Valve – See Specification for Details	270
SMH1	800 ø	–	Manhole Access	Existing	331

LIST OF ROOF APPURTENANCES FOR VERTICAL TANK

ITEM	SIZE	HOR. LOCATION FROM EDGE OF SHELL (To CL)	DESCRIPTION	Comments	ANGULAR LOCATION – CW DECIMAL DEGREES
RN1	–	1060	PV Vent	Existing	304
RMH1	–	1060	Roof Manhole	Existing	318
	–	–	Beginning of Stair Landing	Existing	322
RN2	100 ø	900	Gauge Hatch	Existing	328
	–	–	End of Stair Landing	Existing	331







RELOCATED VERTICAL TANK #1– L.S.D.L.

13.9M Dia. x 9.2M H. – 1379 cu. m.

Nunavut

Record Drawing

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02	ISSUED FOR TENDER	2011/06/08
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00	ISSUED FOR 50% REVIEW	2011/02

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STANTEC ARCHITECTURE LTD.
Signature
Date 9 SEPT 2016
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
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PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION

CHESTERFIELD INLET, NU

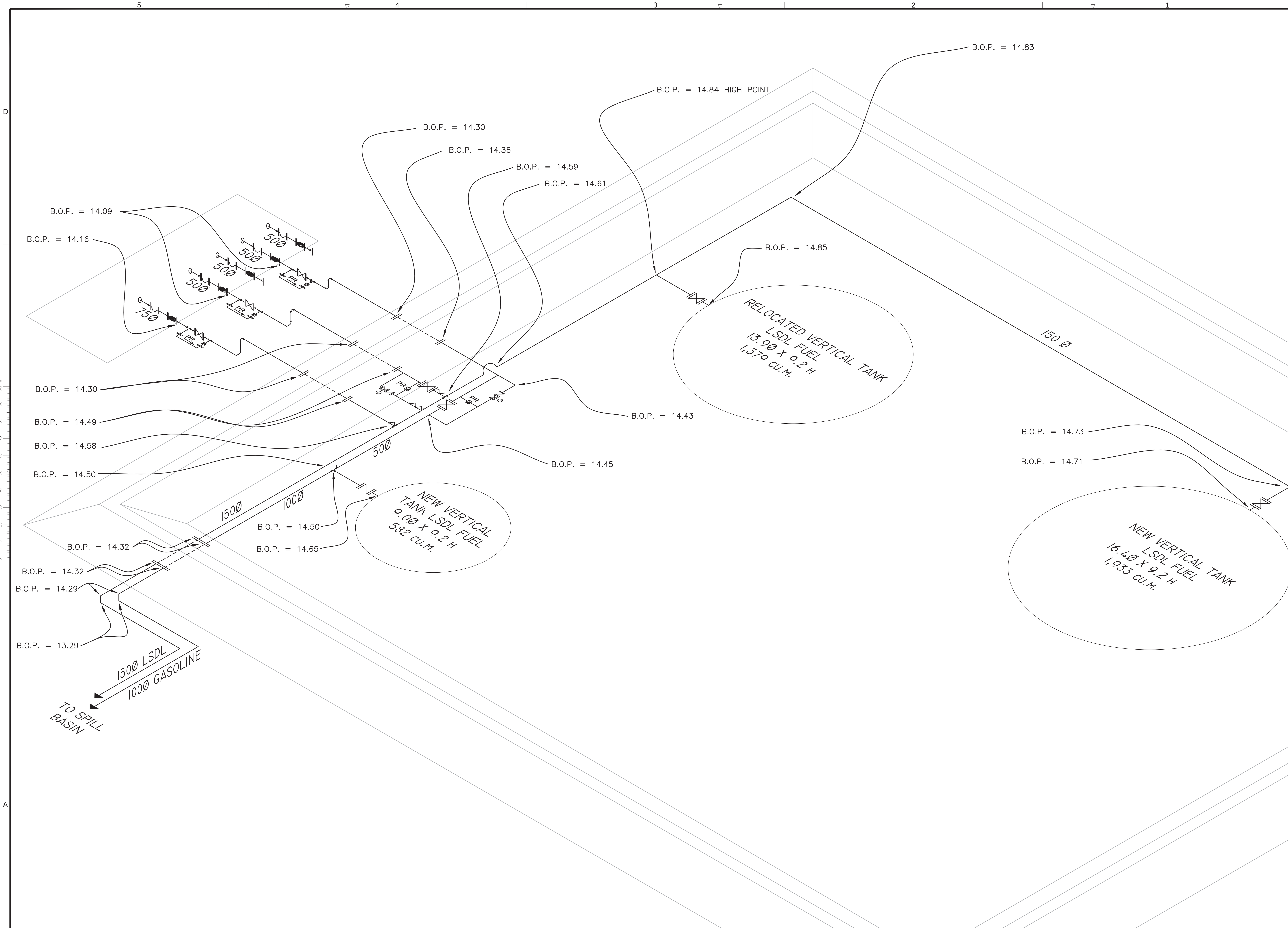
DRAWING TITLE

RELOCATED VERTICAL TANK

DRAWN BY	SCALE
AF	1:100
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO. 2010-1160

DRAWING NO. M3



Nunavut

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PROJECT TITLE

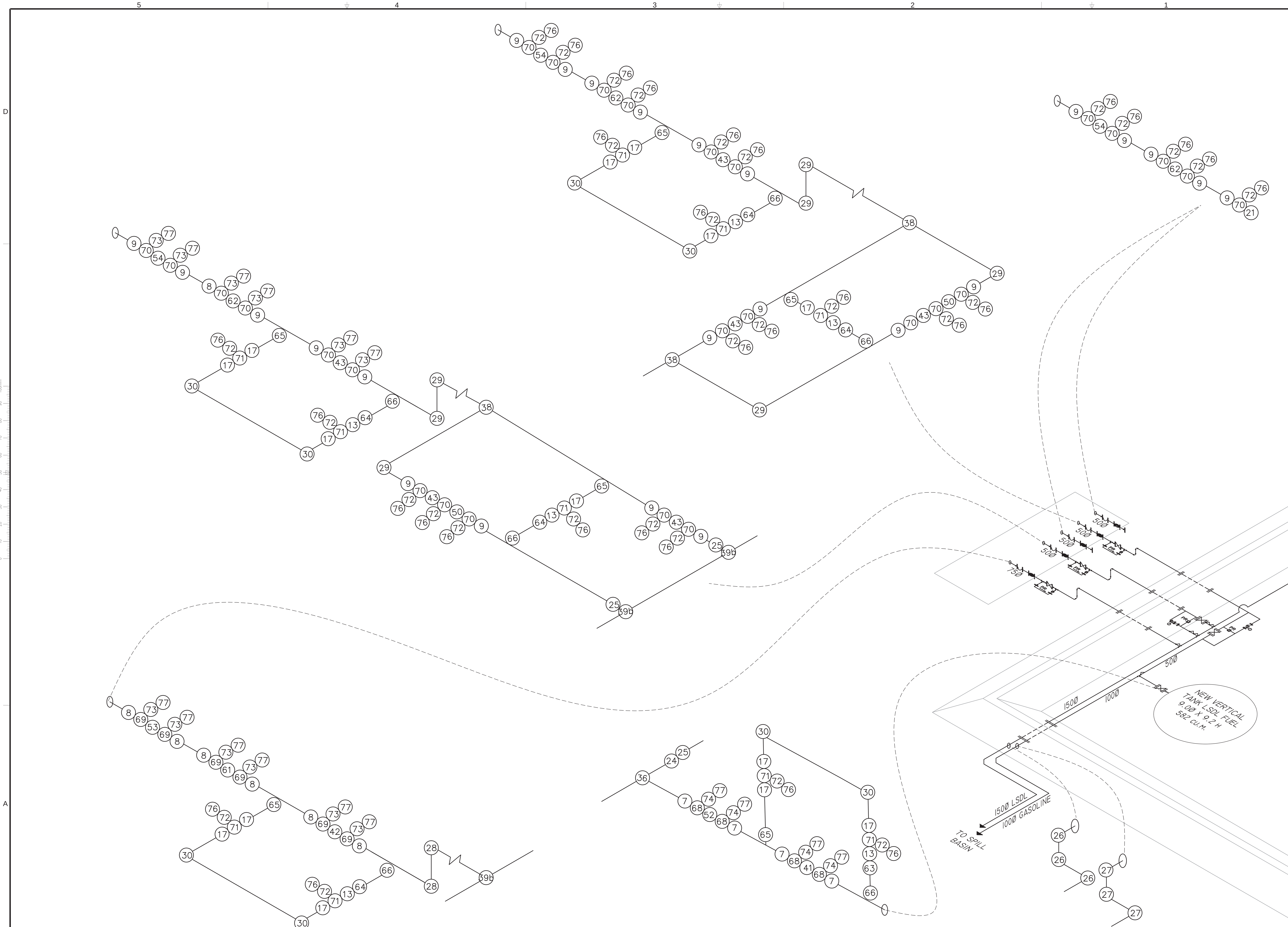
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE

PROPOSED TANK FARM OVERALL PIPING ISOMETRIC & ELEVATIONS

DRAWN BY: AF	SCALE: AS NOTED
CHECKED BY: WO	CLIENT PROJECT NO.: 10-3018
FSC PROJECT NO.: 2010-1160	
DRAWING NO.: M4	OF 45



Nunavut

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Iqaluit, NU, X0A 0H0, Canada
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PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION

CHESTERFIELD INLET, NU

DRAWING TITLE

TANK FARM PROPOSED PIPING ISOMETRIC NEAR DISPENSER BUILDING

DRAWN BY: AF	SCALE: AS NOTED
CHECKED BY: WO	CLIENT PROJECT NO.: 10-3018
FSC PROJECT NO.: 2010-1160	
DRAWING NO.: M5	OF 45

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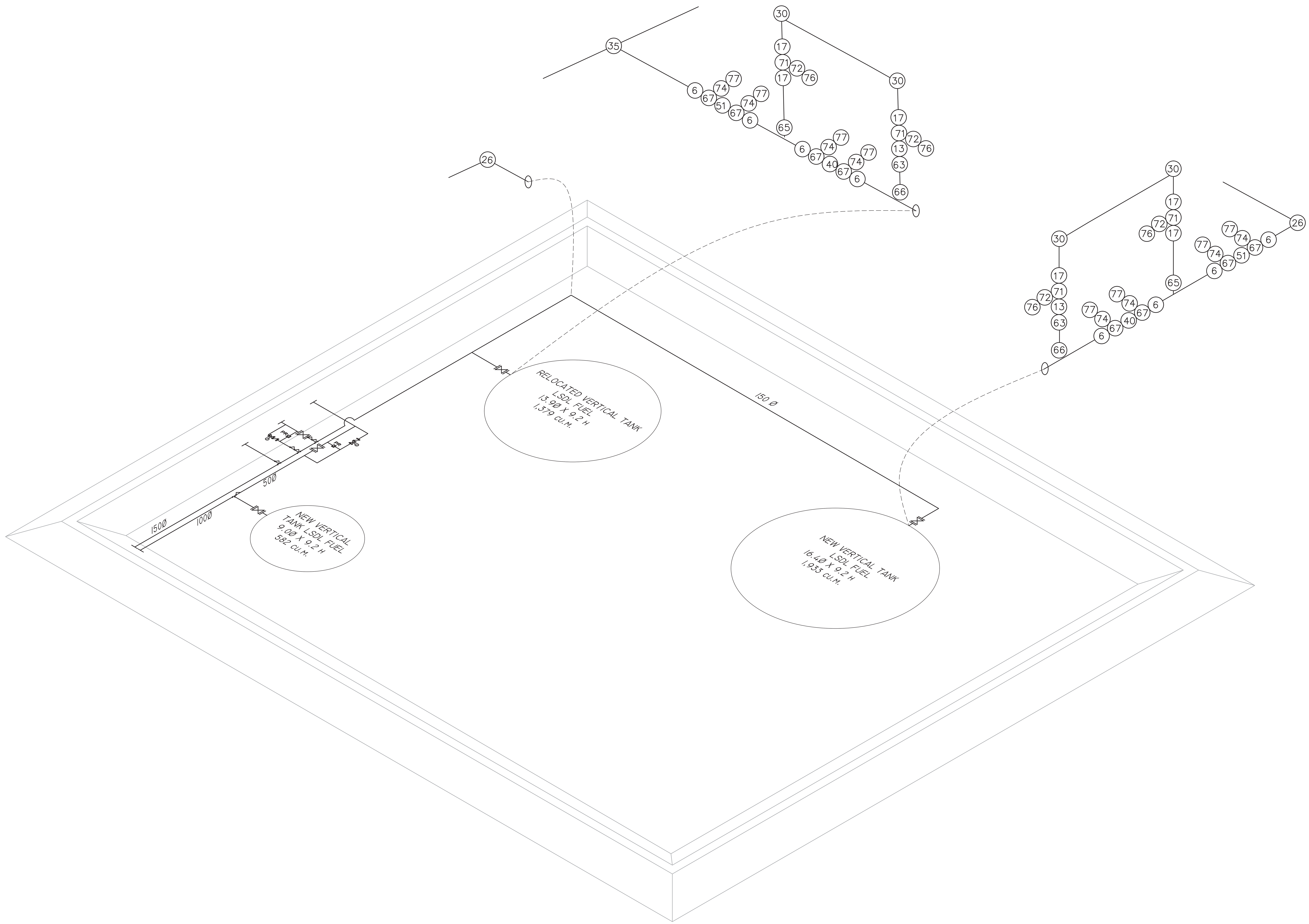

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PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE

TANK FARM PROPOSED PIPING ISOMETRIC NEAR NEW LSDL TANK

DRAWN BY: AF	SCALE: AS NOTED
CHECKED BY: WO	CLIENT PROJECT NO.: 10-3018
FSC PROJECT NO.: 2010-1160	
DRAWING NO.: M6	OF 45

Bill of Materials – Chesterfield Inlet Fuel Storage Piping

No.	Nom. Size	Description	Spec
1	150 Ø	Pipe, SMLS, C.S., SCH. 40	A 53 GR. B
2	100 Ø	Pipe, SMLS, C.S., SCH. 40	
3	75 Ø	Pipe, SMLS, C.S., SCH. 40	
4	50 Ø	Pipe, SMLS, C.S., SCH. 40	
5	25 Ø	Pipe, SMLS, C.S., SCH. 80	
6	150 Ø	W.N. FLANGE, F.R. 1034 kPa, FORGED STEEL, F. & D.	ASTM A350 GR. LF2
7	100 Ø	W.N. FLANGE, F.R. 1034 kPa, FORGED STEEL, F. & D.	
8	75 Ø	W.N. FLANGE, F.R. 1034 kPa, FORGED STEEL, F. & D.	
9	50 Ø	W.N. FLANGE, F.R. 1034 kPa, FORGED STEEL, F. & D.	
11	75 Ø	THREADED FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
12	50 Ø	THREADED FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
13	25 Ø	THREADED FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
17	25 Ø	SLIP ON FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
18	150 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
19	100 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
20	75 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
21	50 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
22	25 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F.& D.	
23	150 Ø – 100 Ø	ECCENTRIC REDUCER, SMLS, C.S., B.W., SCH. 40	A234 GR. B
24	100 Ø – 75 Ø	ECCENTRIC REDUCER, SMLS, C.S., B.W., SCH. 40	
25	75 Ø – 50 Ø	ECCENTRIC REDUCER, SMLS, C.S., B.W., SCH. 40	
26	150 Ø	ELBOW, 90 deg., L.R., SMLS, C.S., B.W., SCH. 40	
27	100 Ø	ELBOW, 90 deg., L.R., SMLS, C.S., B.W., SCH. 40	
28	75 Ø	ELBOW, 90 deg., L.R., SMLS, C.S., B.W., SCH. 40	
29	50 Ø	ELBOW, 90 deg., L.R., SMLS, C.S., B.W., SCH. 40	
30	25 Ø	ELBOW, 90 deg., SOCKET WELD, FRG'D STEEL, 20680 kPa, SCH. 80	ASTM A350 GR. LF2
31	150 Ø	ELBOW, 45 deg., L.R., SMLS, C.S., B.W., SCH. 40	A234 GR. B
32	100 Ø	ELBOW, 45 deg., L.R., SMLS, C.S., B.W., SCH. 40	
33	75 Ø	ELBOW, 45 deg., L.R., SMLS, C.S., B.W., SCH. 40	
34	50 Ø	ELBOW, 45 deg., L.R., SMLS, C.S., B.W., SCH. 40	
35	150 Ø	STRAIGHT TEE, SMLS, C.S., B.W., SCH. 40	
36	100 Ø	STRAIGHT TEE, SMLS, C.S., B.W., SCH. 40	
37	75 Ø	STRAIGHT TEE, SMLS, C.S., B.W., SCH. 40	
38	50 Ø	STRAIGHT TEE, SMLS, C.S., B.W., SCH. 40	
39	100 Ø – 50 Ø	REDUCING TEE, SMLS, C.S., B.W., SCH. 40	
39a	100 Ø – 75 Ø	REDUCING TEE, SMLS, C.S., B.W., SCH. 40	
39b	150 Ø – 75 Ø	REDUCING TEE, SMLS, C.S., B.W., SCH. 40	
40	150 Ø	GATE VALVE, 1034 kPa, FORGED STEEL, R.F., FLEX. DISC., OS & Y. (SEE SPECS)	ASTM A350 GR. LCB
41	100 Ø	GATE VALVE, 1034 kPa, FORGED STEEL, R.F., FLEX. DISC., OS & Y. (SEE SPECS)	
42	75 Ø	GATE VALVE, 1034 kPa, FORGED STEEL, R.F., FLEX. DISC., OS & Y. (SEE SPECS)	
43	50 Ø	GATE VALVE, 1034 kPa, FORGED STEEL, R.F., FLEX. DISC., OS & Y. (SEE SPECS)	
45	150 Ø	CHECK VALVE, 1034 kPa, FORGED STEEL, R.F., (SEE SPECS)	
46	100 Ø	CHECK VALVE, 1034 kPa, FORGED STEEL, R.F., (SEE SPECS)	
47	75 Ø	CHECK VALVE, 1034 kPa, FORGED STEEL, R.F., (SEE SPECS)	
48	50 Ø	CHECK VALVE, 1034 kPa, FORGED STEEL, R.F., (SEE SPECS)	
49	25 Ø	CHECK VALVE, 1034 kPa, FORGED STEEL, R.F., (SEE SPECS)	

50	50 Ø	2 WAY SOLENOID VALVE, FLANGED S.S. BODY, c/w S.S. INTERNALS SUITABLE FOR PETROLEUM PRODUCTS, NORMALLY CLOSED, EXPLOSION PROOF, GROUP D, 120 V 60 Hz, 12 NTP CONDUIT HOUSING	SNAP–TITE SEE SPECS
51	150 Ø	FLEXIBLE CONNECTOR, 309 LG, FLG'D, 1034 kPa, F.S., R.F., S.S. METAL HOSE, DOUBLE BRAIDED, TYPE RF–45	SEE SPECS
52	100 Ø	FLEXIBLE CONNECTOR, 309 LG, FLG'D, 1034 kPa, F.S., R.F., S.S. METAL HOSE, DOUBLE BRAIDED, TYPE RF–45	
53	75 Ø	FLEXIBLE CONNECTOR, 309 LG, FLG'D, 1034 kPa, F.S., R.F., S.S. METAL HOSE, DOUBLE BRAIDED, TYPE RF–81	
54	50 Ø	FLEXIBLE CONNECTOR, 309 LG, FLG'D, 1034 kPa, F.S., R.F., S.S. METAL HOSE, DOUBLE BRAIDED, TYPE RF–81	
55			
56			
57	100 Ø	KAMLOK ADAPTOR, OPW NO. 633–F, HOSE TO PIPE, MALE NPT, STAINLESS STEEL, C/W 634–BK CAP	
58			
59	75 Ø	KAMLOK ADAPTOR, OPW NO. 633–F, HOSE TO PIPE, MALE NPT, STAINLESS STEEL, C/W 634–BK CAP	
60	100 Ø	STRAINER FLG'D, R.F., 1034 kPa, FAB. STL. HOUSING, ALL IRON TRIM, DRAIN PLUG, A.O. SMITH MODEL #22–E3 EXPANDED STEEL OUTER BASKET, & 40 MESH S.S. INNER BASKET FOR GASOLINE OR JET A–1 SERVICE	
61	75 Ø	STRAINER FLG'D, R.F., 1034 kPa, FAB. STL. HOUSING, ALL IRON TRIM, DRAIN PLUG, A.O. SMITH MODEL #22–E3 EXPANDED STEEL OUTER BASKET, & 40 MESH S.S. INNER BASKET FOR GASOLINE OR JET A–1 SERVICE	
62	50 Ø	STRAINER FLG'D, R.F., 1034 kPa, FAB. STL. HOUSING, ALL IRON TRIM, DRAIN PLUG, A.O. SMITH MODEL #22–E3 EXPANDED STEEL OUTER BASKET, & 40 MESH S.S. INNER BASKET FOR GASOLINE OR JET A–1 SERVICE	
63	25 Ø	THERMAL PRESSURE RELIEF VALVE, EMCO–WHEATON MODEL E–0153, THREADED ENDS, PRESET AT 517 kPa (75 P.S.I.)	
64	25 Ø	THERMAL PRESSURE RELIEF VALVE, EMCO–WHEATON MODEL E–0153, THREADED ENDS, PRESET AT 172 kPa (25 P.S.I.)	
65	25 Ø	HALF COUPLING, FRG'D STEEL, 20680 kPa, SOCKET WELD, SCHED. 80	ASTM A350 GR. LF2
66	25 Ø	HALF COUPLING, FRG'D STEEL, 20680 kPa, SCREWED, SCHED. 80	
67	150 Ø	GASKET, 1034 kPa, 1.6 THICK FLAT RING TYPE	JOHN CRANE STYLE 2160 SEE SPECS
68	100 Ø	GASKET, 1034 kPa, 1.6 THICK FLAT RING TYPE	
69	75 Ø	GASKET, 1034 kPa, 1.6 THICK FLAT RING TYPE	
70	50 Ø	GASKET, 1034 kPa, 1.6 THICK FLAT RING TYPE	
71	25 Ø	GASKET, 1034 kPa, 1.6 THICK FLAT RING TYPE	
72	12 Ø x 65 lg	STUD BOLTS, ALLOY STEEL	ASTM A320 GR. L7
73	16 Ø x 76 lg	STUD BOLTS, ALLOY STEEL	
74	16 Ø x 89 lg	STUD BOLTS, ALLOY STEEL	
75	19 Ø x 94 lg	STUD BOLTS, ALLOY STEEL	
76	12 Ø	NUTS, SEMI FINISHED, HEXAGONAL, ALLOY STEEL	ASTM A194 GR. 4
77	16 Ø	NUTS, SEMI FINISHED, HEXAGONAL, ALLOY STEEL	
78	19 Ø	NUTS, SEMI FINISHED, HEXAGONAL, ALLOY STEEL	
79	38 Ø	BREAK AWAY AUTOMATIC SHUT OFF, OPW MODEL 10BF–5725 C/W OPW 10S STABILIZER BAR ASSEMBLY	SEE SPECS

Nunavut

Record Drawing

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NO.	REVISION DESCRIPTION	DATE ISSUED
03	RECORD DRAWINGS	2013/11/01
02	ISSUED FOR TENDER	2011/06/08
01	ISSUED FOR 95% REVIEW	2011/03/25
00	ISSUED FOR 50% REVIEW	2011/02

PROFESSIONAL SEAL / PERMIT TO PRACTICE

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STANTEC ARCHITECTURE LTD.
Signature
Date 9 SEPT 2015
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

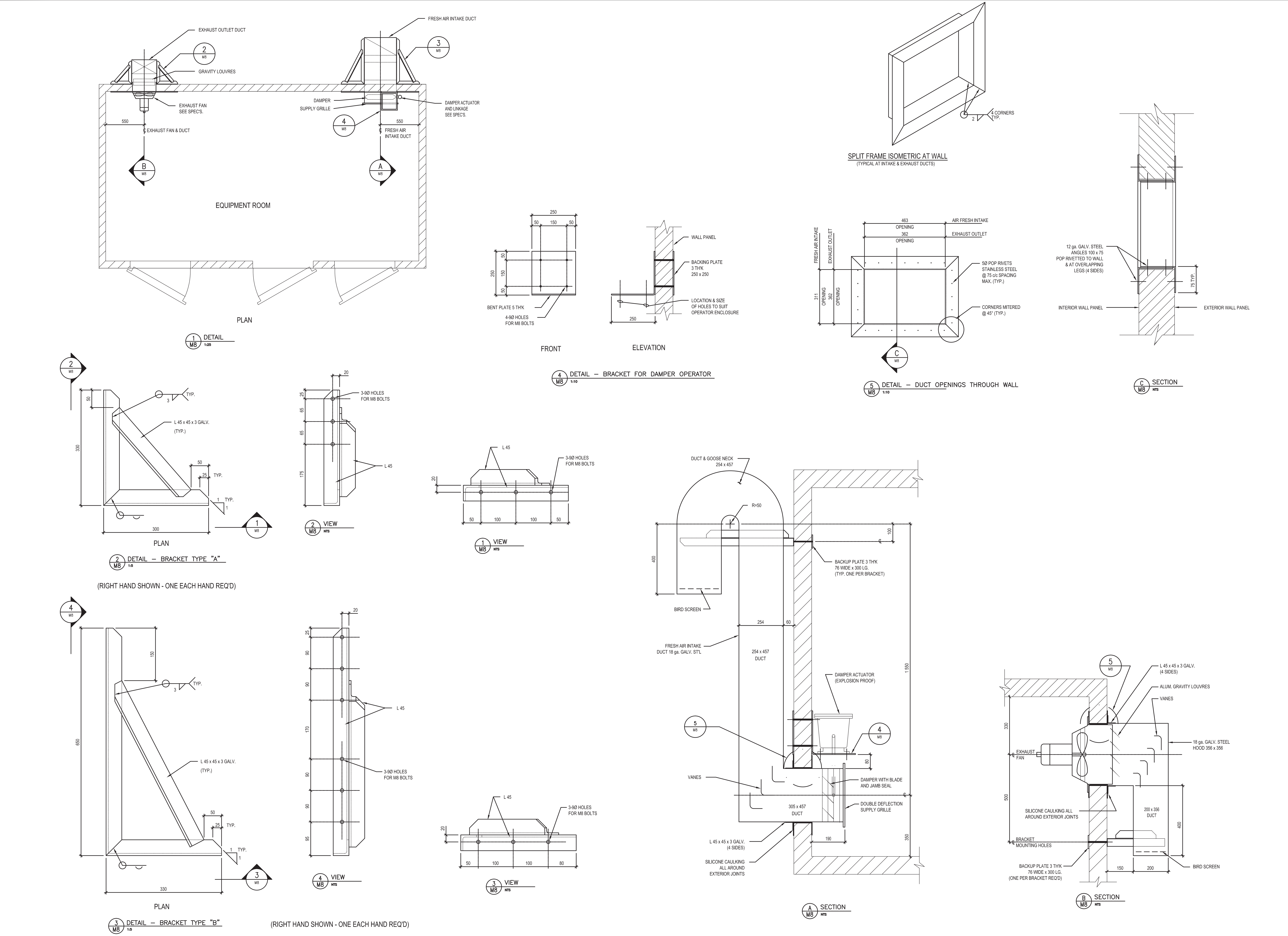
LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE
PIPING BILL OF MATERIALS

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M7



Nunavut

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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

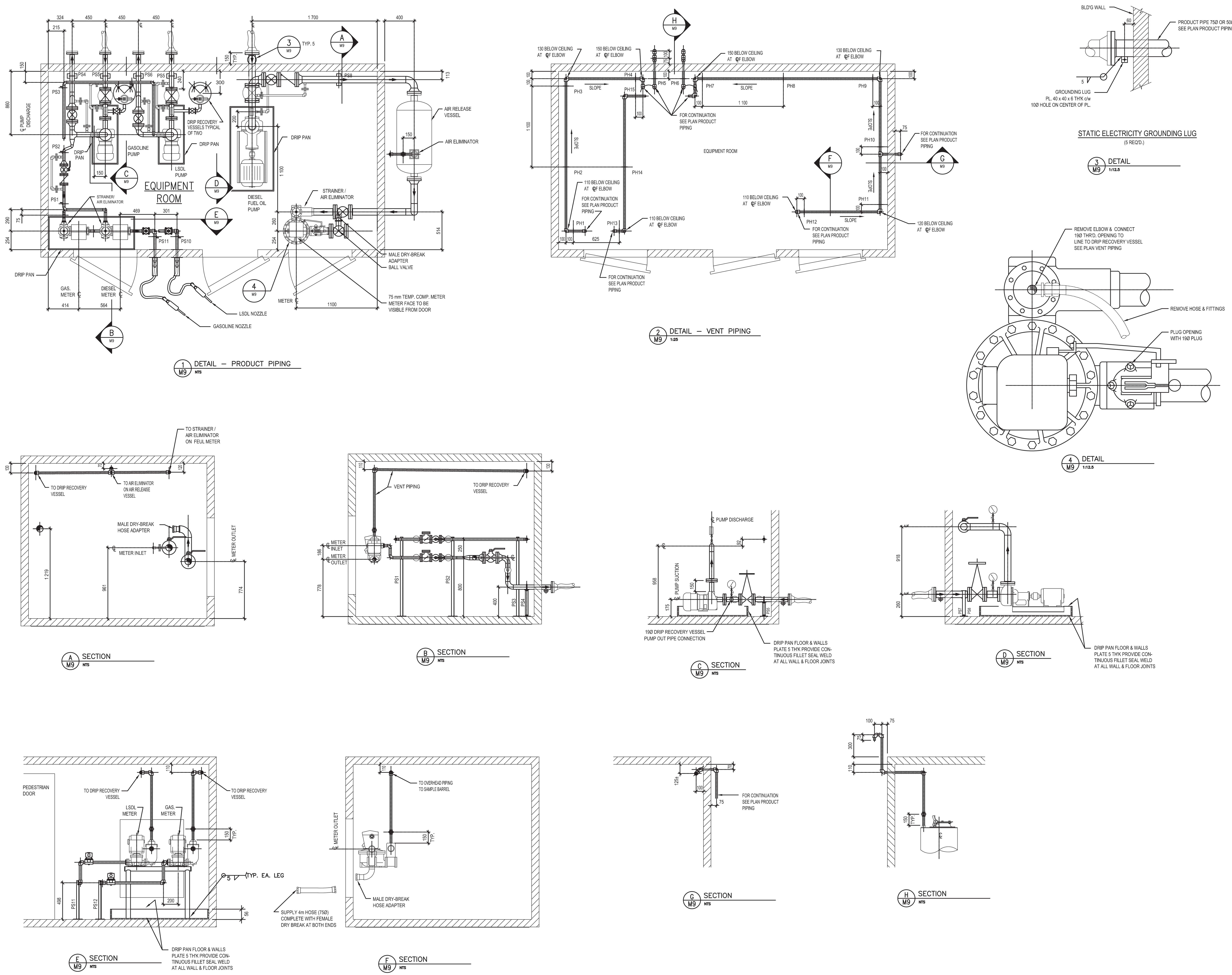
DRAWING TITLE
LSDL/GASOLINE DISPENSER BUILDING VENTILATION PLAN, SECTIONS, AND DETAILS

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M8

of 45



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PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE

LSDL/GASOLINE DISPENSER BUILDING PIPING PLAN, SECTIONS, AND DETAILS

DRAWN BY: AF	SCALE: AS NOTED
CHECKED BY: WO	CLIENT PROJECT NO.: 10-3018
FSC PROJECT NO.: 2010-1160	
DRAWING NO.: M9	OF 45

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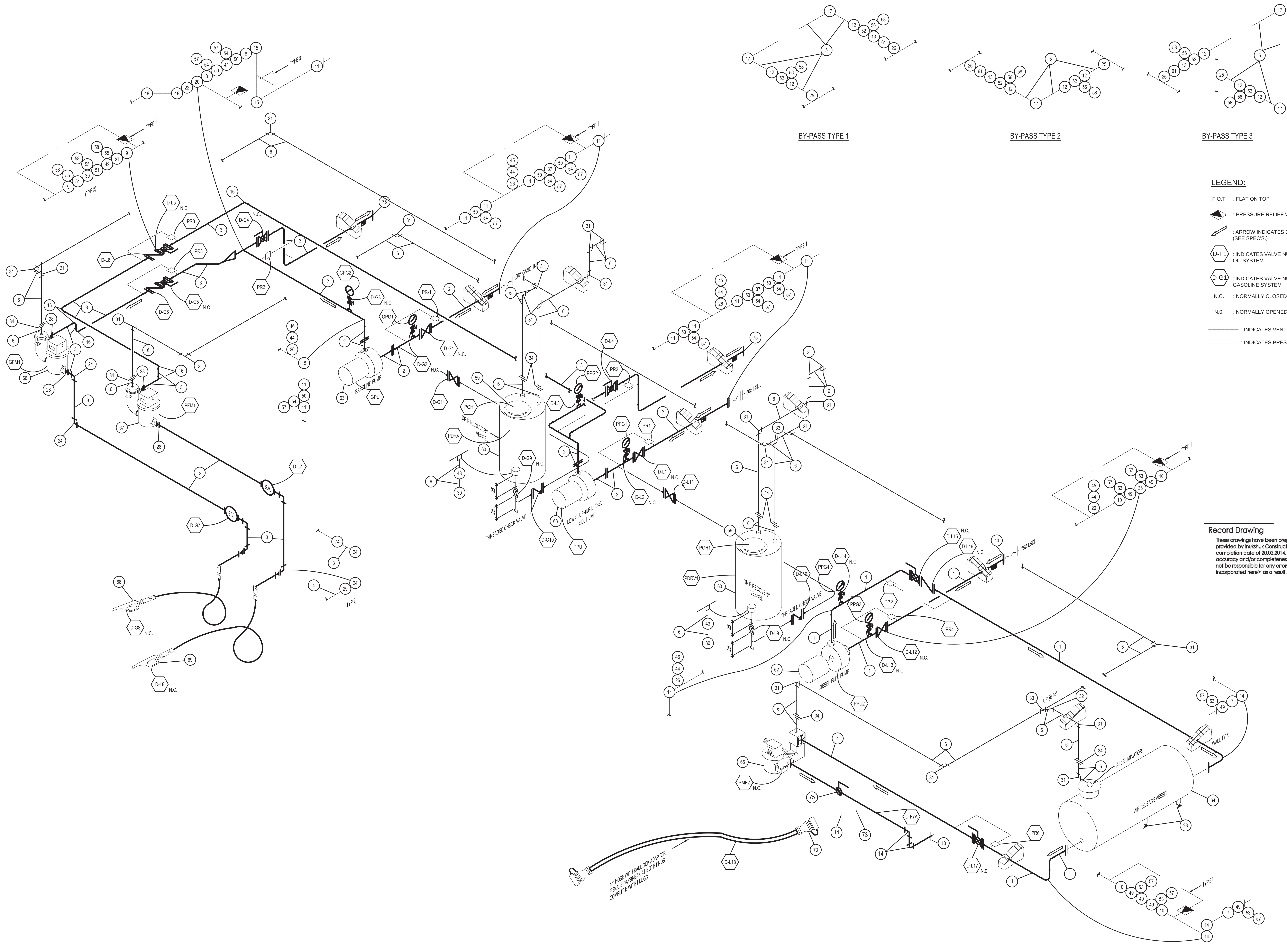

SCHEMATIC ISOMETRIC GASOLINE & DIESEL FUEL DISPENSING SYSTEMS

(NO SCALE)

LEGEND:

- F.O.T. : FLAT ON TOP
- : PRESSURE RELIEF VALVE
- : ARROW INDICATES DIRECTION OF FLOW (SEE SPEC'S.)
- D-F1 : INDICATES VALVE NUMBER ON P-50 FUEL OIL SYSTEM
- D-G1 : INDICATES VALVE NUMBER ON GASOLINE SYSTEM
- N.C. : NORMALLY CLOSED
- N.0. : NORMALLY OPENED
- : INDICATES VENT PIPING LINE.
- : INDICATES PRESSURE RELIEF LINE.

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NOTES:

1. FOR DESCRIPTION OF CIRCLED NUMBERS REFER TO DRAWING M11.
2. NOZZLE AND DRY–BREAK ADAPTER ASSEMBLY TO BE REMOVED AFTER SHOP TESTING, SHIPPED WITH DISPENSER AND REINSTALLED IN FIELD AS DIRECTED.
3. THERMAL PRESSURE TO BE RELIVED IN DIRECTION OF ARROW (TOWARDS STORAGE TANKS). FOR PRESSURE SETTING OF PRESSURE RELIEF VALVES REFER TO SPECIFICATION.
4. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
5. WELDING TO CONFORM TO CAN/CSA–B51–M, BOILER, PRESSURE VESSEL AND PIPING PRESSURE CODE. ALL ELECTRODES TO BE E70XX. SEE SPEC'S
6. FOR PAINTING, REFER TO SPECIFICATIONS
7. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS.
8. SEE LSDL/GAS DISPENSER BUILDING BILL OF MATERIALS DRAWING M8.

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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE
LSDL/GASOLINE DISPENSER BUILDING PIPING ISOMETRIC

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M10

of 45

BILL OF MATERIALS FOR GASOLINE / DIESEL FUEL DISPENSER BUILDING

(NO SCALE)

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 Ø	PIPE
2	50 Ø	PIPE
3	25 Ø	PIPE
4	19 Ø	PIPE
5	12 Ø	PIPE
6	19 Ø	PIPE GALVANIZED
7	75 Ø	WELDING NECK FLANGE
8	50 Ø	WELDING NECK FLANGE
9	25 Ø	WELDING NECK FLANGE
10	75 Ø	SLIP-ON FLANGE
11	50 Ø	SLIP-ON FLANGE
12	12 Ø	SLIP-ON FLANGE
13	12 Ø	FLANGE THREADED
14	75 Ø	ELBOW 90° L.R.
15	50 Ø	ELBOW 90° L.R.
16	25 Ø	ELBOW 90° L.R.
17	12 Ø	ELBOW 90° SOCKET WELD
18	25 Ø	ELBOW 45° L.R.
19	75 Ø	STRAIGHT TEE
20	50 Ø	STRAIGHT TEE
21	75 Ø x 50 Ø	CONCENTRIC REDUCER
22	50 Ø x 25 Ø	CONCENTRIC REDUCER
23	25 Ø	PLUG THREADED SQUARE HEAD
24	25 Ø	ELBOW 90° THREADED
25	12 Ø	HALF COUPLING SOCKET WELD
26	12 Ø	HALF COUPLING THREADED
27	75 Ø x 65 Ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
28	38 Ø x 25 Ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
29	25 Ø x 19 Ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
30	19 Ø	PIPE CAP MALLEABLE IRON GALVANIZED
31	19 Ø	ELBOW 90° MALLEABLE IRON GALVANIZED
32	19 Ø	ELBOW 45° MALLEABLE IRON GALVANIZED
33	19 Ø	STRAIGHT TEE MALLEABLE IRON GALVANIZED
34	19 Ø	UNION MALLEABLE IRON CLASS 300 GROUND JOINT COPPER ALLOY TO IRON GALVANIZED
35	65 Ø x 50 Ø	REDUCER MALLEABLE IRON GALVANIZED
36	75 Ø	GATE VALCE CAST STEEL FLANGED
37	50 Ø	GATE VALVE CAST STEEL FLANGED
38	75 Ø	CHECK VALVE CAST STEEL FLANGED
39	25 Ø	CHECK VALVE CAST STEEL FLANGED
40	75 Ø	BALL VALVE CAST STEEL FLANGED
41	50 Ø	BALL VALVED CAST STEEL FLANGED.
42	25 Ø	BALL VALVE CAST STEEL FLANGED
43	19 Ø	BALL VALVE CARBON STEEL THREADED ENDS
44		GAUGE VALVE SEE SECTION 13230
45		COMPOUND PRESSURE/ VACUUM GAUGE SEE SECTION 13230

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
46		PRESSURE GAUGE SEE SECTION 13230
47	75 Ø x 457 Lg.	FLEXIBLE CONNECTOR FLANGED
48	50 Ø x 65 Lg.	PIPE NIPPLE CARBON STEEL GALVANIZED
49	75 Ø	GASKET
50	50 Ø	GASKET
51	25 Ø	GASKET
52	12 Ø	GASKET
53	16 Ø x 89 Lg.	STUD BOLTS
54	16 Ø x 76 Lg.	STUD BOLTS
55	12 Ø x 65 Lg.	STUD BOLTS
56	12 Ø x 57 Lg.	STUD BOLTS
57	16 Ø	NUTS
58	12 Ø	NUTS
59	100 Ø	GAUGE HATCH SEE SECTION 13230
60		DRIP RECOVERY VESSEL SEE DRAWING NO. S-GP-03, AND SECTION 13230
61	12 Ø	PRESSURE RELIEF VALVE SEE SECTION 13230
62		DIESEL FUEL PUMP SEE SECTION 13230
63		GASOLINE PUMP SEE SECTION 13230
64		AIR RELEASE VESSEL C/W AIR ELIMINATOR SEE SECTION 13230
65		DIESEL FUEL METERING ASSEMBLY SEE SECTION 13230
66		GASOLINE METERING ASSEMBLY SEE SECTION 13230
67		MOTIVE DIESEL FUEL METERING ASSEMBLY SEE SECTION 13230
68		HOSE ASSEMBLY FOR GASOLINE DISPENSING SEE SECTION 13230
69		HOSE ASSEMBLY FOR MOTIVE DIESEL FUEL DISPENSING SEE SECTION 13230
70		HOSE AND REEL ASSEMBLY FOR DIESEL FUEL DISPENSING SEE SECTION 13230
71		NOZZLE FOR TOP LOADING OF DIESEL FUEL TRUCK SEE DESCRIPTION SECTION 13230
72		DRY-BREAK COUPLER SEE DESCRIPTION SECTION 13230
73		DRY-BREAK ADAPTER SEE DESCRIPTION SECTION 13230
74	25 Ø	TWO-WAY SOLENOID VALVE: FORGED STAINLESS STEEL BODY, S.S. INTERNAL PARTS SUITABLE FOR PETROLEUM PRODUCTS, NORMALLY CLOSED, EXPLOSION PROOF ZONE 1, GROUP IIA, 120V, 60HZ, 12 Ø NPT CONDUIT HOUSING, POWER CONSUMPTION: 10W MAXIMUM. SKINNER 'L' SERIES CAT. NO. XL2DB6150 OR EQUIVALENT
75	50 Ø	BLIND FLANGE, 1034 kPa, FORGED STEEL, R.F., F. & D.

Nunavut

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REGISTERED PROFESSIONAL ENGINEER
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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

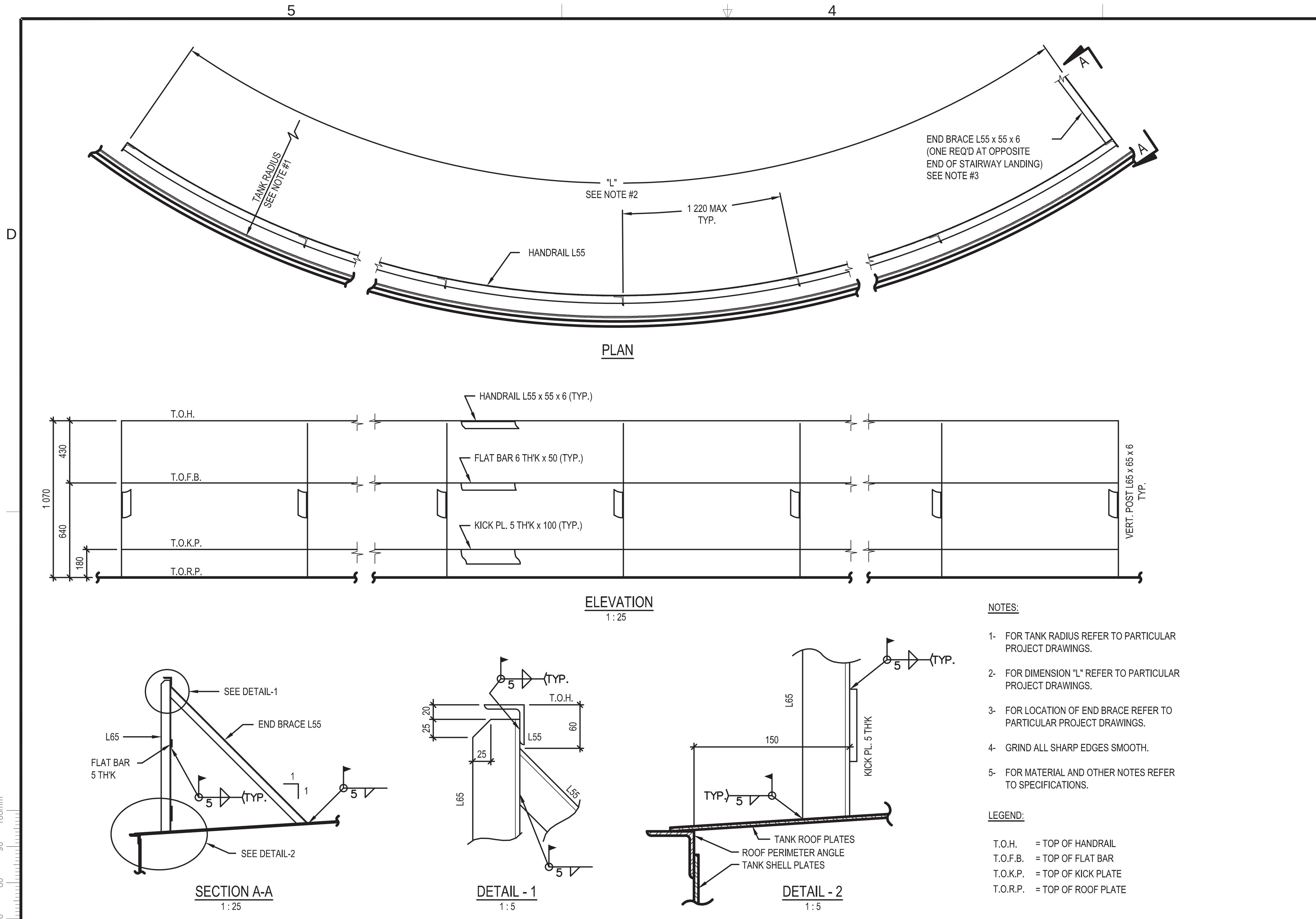
DRAWING TITLE
LSDL/GASOLINE DISPENSER BUILDING BILL OF MATERIALS

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M11

of 45



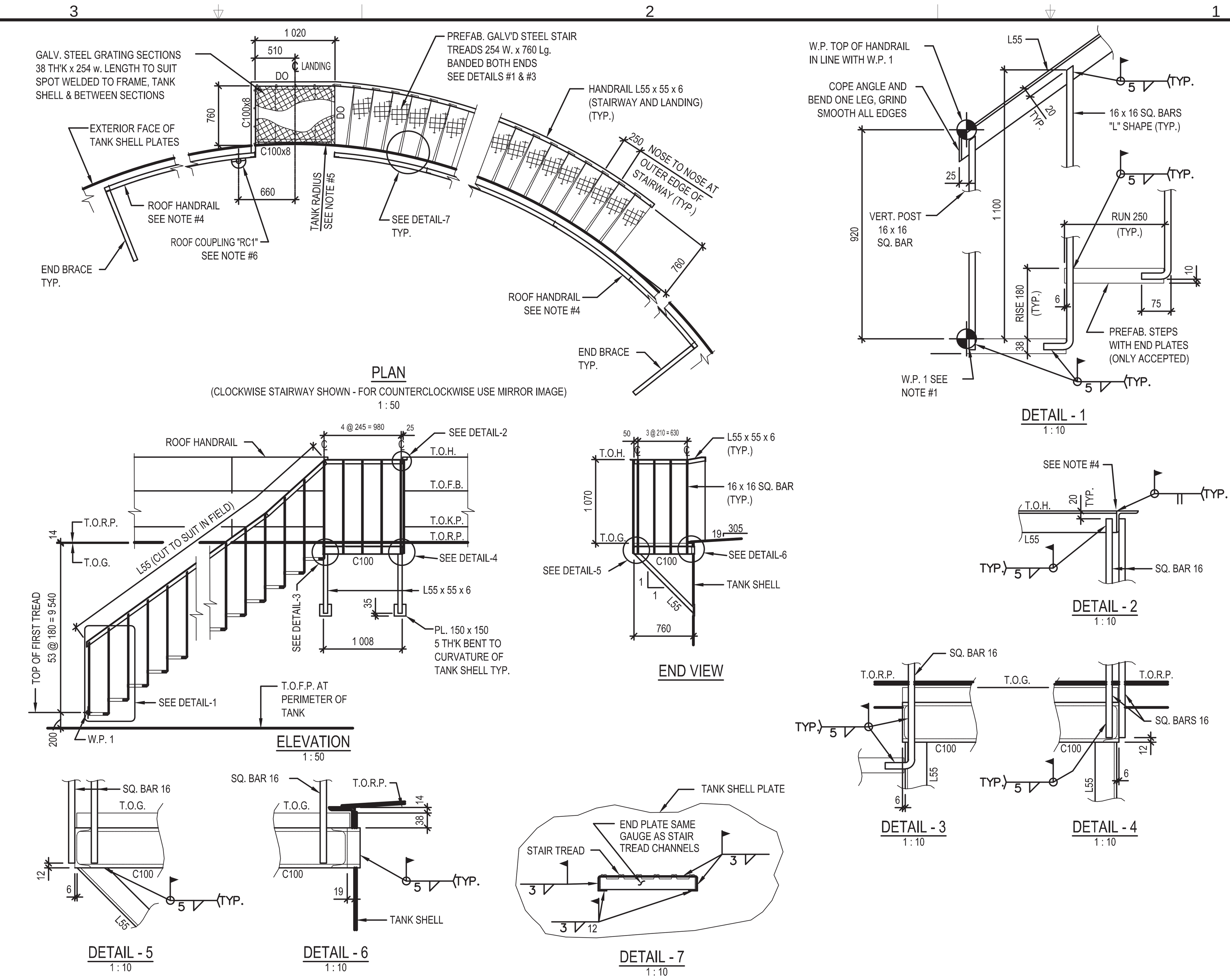
NOTES:

1- FOR TANK RADIUS REFER TO PARTICULAR PROJECT DRAWINGS.
2- FOR DIMENSION "L" REFER TO PARTICULAR PROJECT DRAWINGS.
3- FOR LOCATION OF END BRACE REFER TO PARTICULAR PROJECT DRAWINGS.
4- GRIND ALL SHARP EDGES SMOOTH.
5- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS.

LEGEND:

T.O.H. = TOP OF HANDRAIL
T.O.F.B. = TOP OF FLAT BAR
T.O.K.P. = TOP OF KICK PLATE
T.O.R.P. = TOP OF ROOF PLATE

1 M12 ROOF HANDRAIL AT VERTICAL TANKS
AS SHOWN



NOTES:

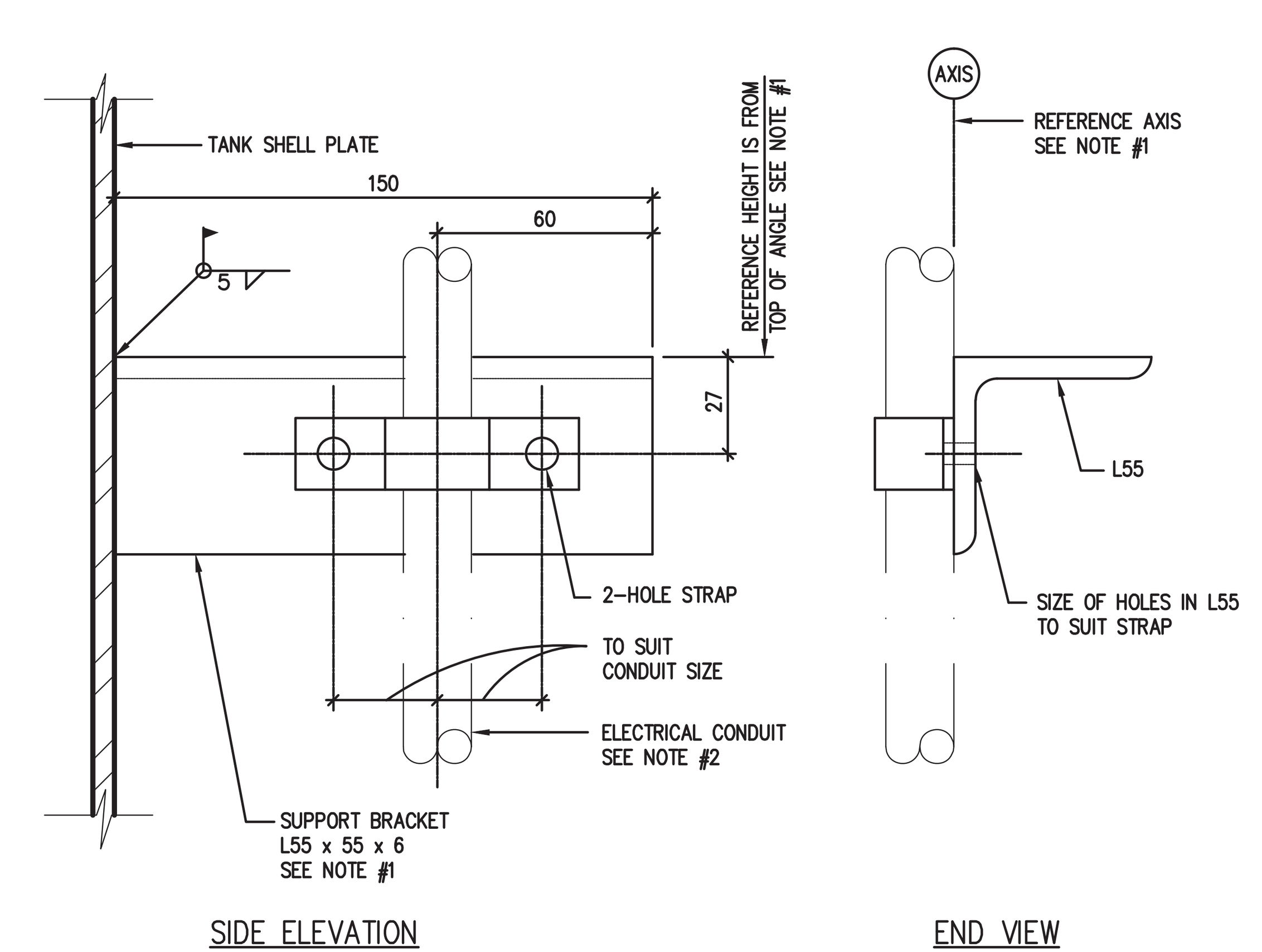
1- "W.P.1" IS THE START OF THE STAIRWAY AT TOP OF FIRST TREAD IN LINE WITH FRONT NOSING OF STAIR.
2- GRIND WELD FLUSH AT TOP & SIDE FACES OF HANDRAIL ANGLES. GRIND SMOOTH ALL EDGES AND SHARP CORNERS.
3- FOR DESCRIPTION OF STAIR TREADS AND LANDING GRATING REFER TO SPACIFICATIONS.
4- FOR DETAILS OF ROOF HANDRAILS "RH" SEE (1/M12). FOR DEVELOPED LENGTHS OF ROOF HANDRAILS REFER TO PARTICULAR PROJECT DRAWINGS.
5- FOR TANK RADIUS AND LOCATION OF TANK APPURTENANCES REFER TO PARTICULAR PROJECT DRAWINGS.
6- FOR DETAILS OF ROOF COUPLING "RC1" FOR LIGHT FIXTURE POST SEE DETAIL 5-M12
7- FOR WELDING, PAINTING & OTHER NOTES REFER TO SPECIFICATIONS.
8- CONTRACTOR TO PROVIDE PROPER SHOP DRAWINGS OF TANK APPURTENANCES, STAIRWAY AND LANDING FOR APPROVAL PRIOR TO FABRICATION AS PER SPECIFICATIONS.

LEGEND:

T.O.H. = TOP OF HANDRAIL
T.O.F.B. = TOP OF FLAT BAR
T.O.K.P. = TOP OF KICK PLATE
T.O.G. = TOP OF GRATING
T.O.R.P. = TOP OF ROOF PLATE
T.O.F.P. = TOP OF FLOOR PLATE

DRAWING 1: STD DWG NT–P17
DRAWING 2: STD DWG NT–P16
DRAWING 3: STD DWG NT–P19
DRAWING 4: STD DWG NT–P18
DRAWING 5: STD DWG NT–P20

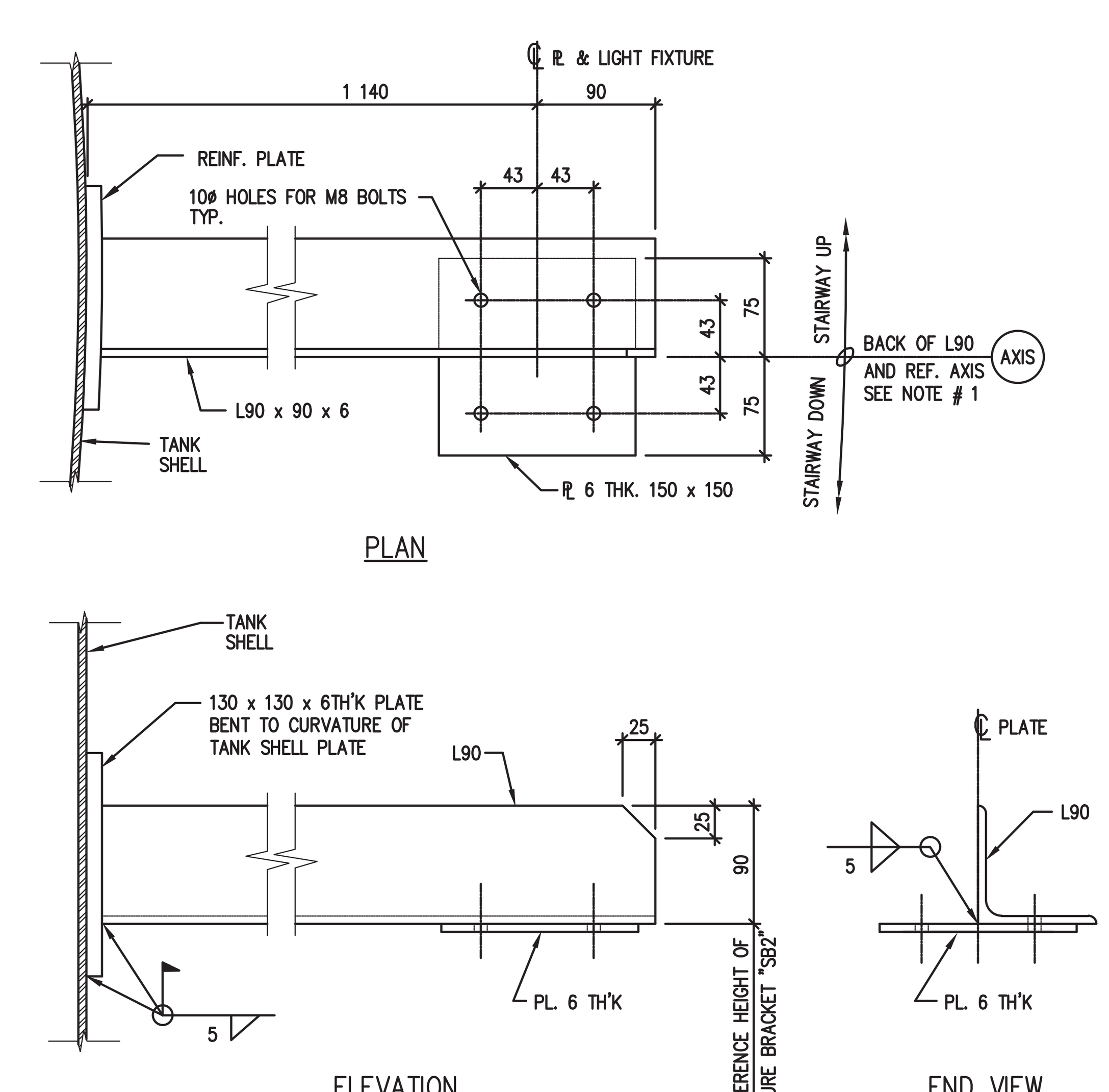
2 M12 STAIRWAY AND LANDING AT VERTICAL TANKS
AS SHOWN



NOTES:

1- FOR REFERENCE AXIS POSITION, HEIGHT AND NUMBER OF BRACKETS REFER TO DWG M1–M3.
2- FOR SIZE OF RIGID CONDUIT REFER TO PARTICULAR PROJECT DRAWINGS.
3- MAXIMUM VERTICAL SPACING OF BRACKETS TO BE 1500mm FOR 13⌀ & 19⌀ CONDUITS AND 2 000mm FOR 25⌀ & 32⌀ CONDUITS FOR ACTUAL SPACING REFER TO PARTICULAR PROJECT DRAWINGS.
4- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS.

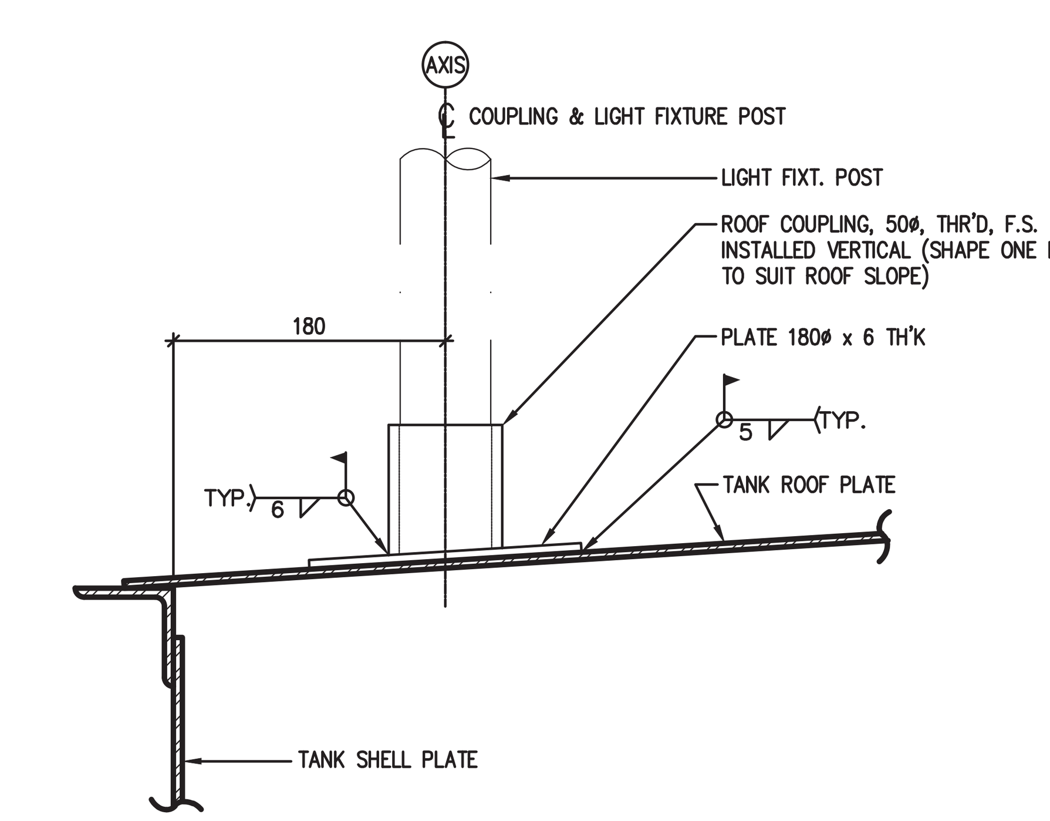
3 M12 SHELL BRACKET "SB3" FOR ELECT CONDUITS
AS SHOWN



NOTES:

1- FOR REFERENCE AXIS POSITION AND HEIGHT OF BRACKET REFER TO DWG M1 – M3.
2- GRIND ALL SHARP EDGES SMOOTH.
3- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS.

4 M12 LIGHT FIXTURE BRACKET "SB2" AT STAIRWAYS
AS SHOWN



NOTES:

1- FOR POSITION OF ROOF COUPLING "RC1" REFER TO DWG M1 – M3.
2- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS.

5 M12 ROOF COUPLING "RC1" FOR LIGHT FIXTURE
AS SHOWN

Nunavut

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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

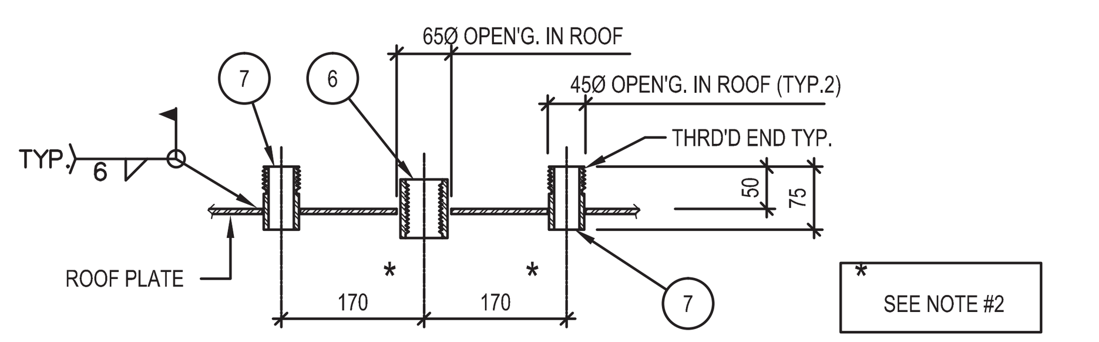
LOCATION
CHESTERFIELD INLET, NU

DRAWING TITLE
NEW TANK DETAILS

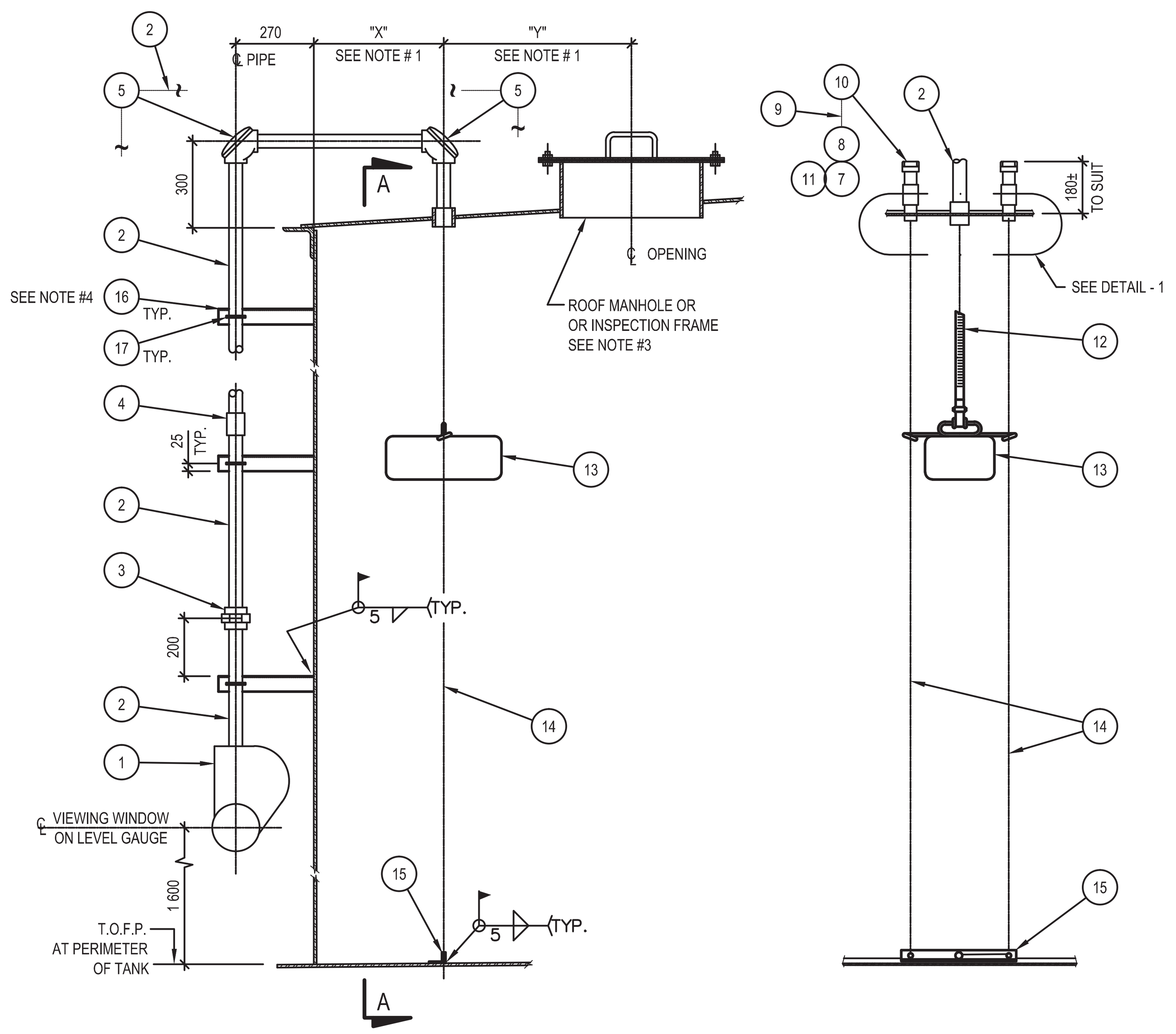
DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.
2010-1160

DRAWING NO.
M12



DETAIL-1 : ROOF NOZZLE "RN3"



ELEVATION

SECTION A-A

1/M13 INSTALLATION OF AUTOMATIC TANK LEVEL GAUGE
NTS

LIST OF MATERIAL		
No.	DESCRIPTION	SIZE OR REMARKS
1	AUTOMATIC LEVEL GAUGE HEAD	SEE NOTE #2
2	PIPE, GALVANIZED	38Ø
3	UNION, MALLEABLE IRON, 300#, GALVANIZED	
4	COUPLING, MALLEABLE IRON, 150#, GALVANIZED	38Ø
5	90° PULLEY ASSEMBLY	SEE NOTE #2
6	COUPLING, THREADED	38Ø
7	PIPE NIPPLE, THREADED ONE END	32Ø
8	COUPLING, THREADED	
9	PIPE	
10	CAP, MALLEABLE IRON, THREADED, 150#	
11	GUIDE WIRE SPRING ASSEMBLY	SEE NOTE #2
12	READING TAPE	
13	FLOAT	
14	GUIDE WIRES	
15	ANCHOR BAR	
16	PIPE BRACKET "SB1"	SEE NOTE #4
17	STANDARD "U" BOLT, GALVANIZED STEEL, 10Ø ROD	38Ø

NOTES:

1- FOR DIMENSIONS "X" AND "Y" REFER TO DWG. M1 - M3.

2- DIMENSIONS SHOWN REFER TO SHAND & JURS TYPE AUTOMATIC LEVEL GAUGE. DIMENSIONS MAY VARY FOR OTHER MAKES OF LEVEL GAUGE. REFER TO SPECIFICATIONS AND MANUFACTURER'S DATA FOR ACTUAL DIMENSIONS.

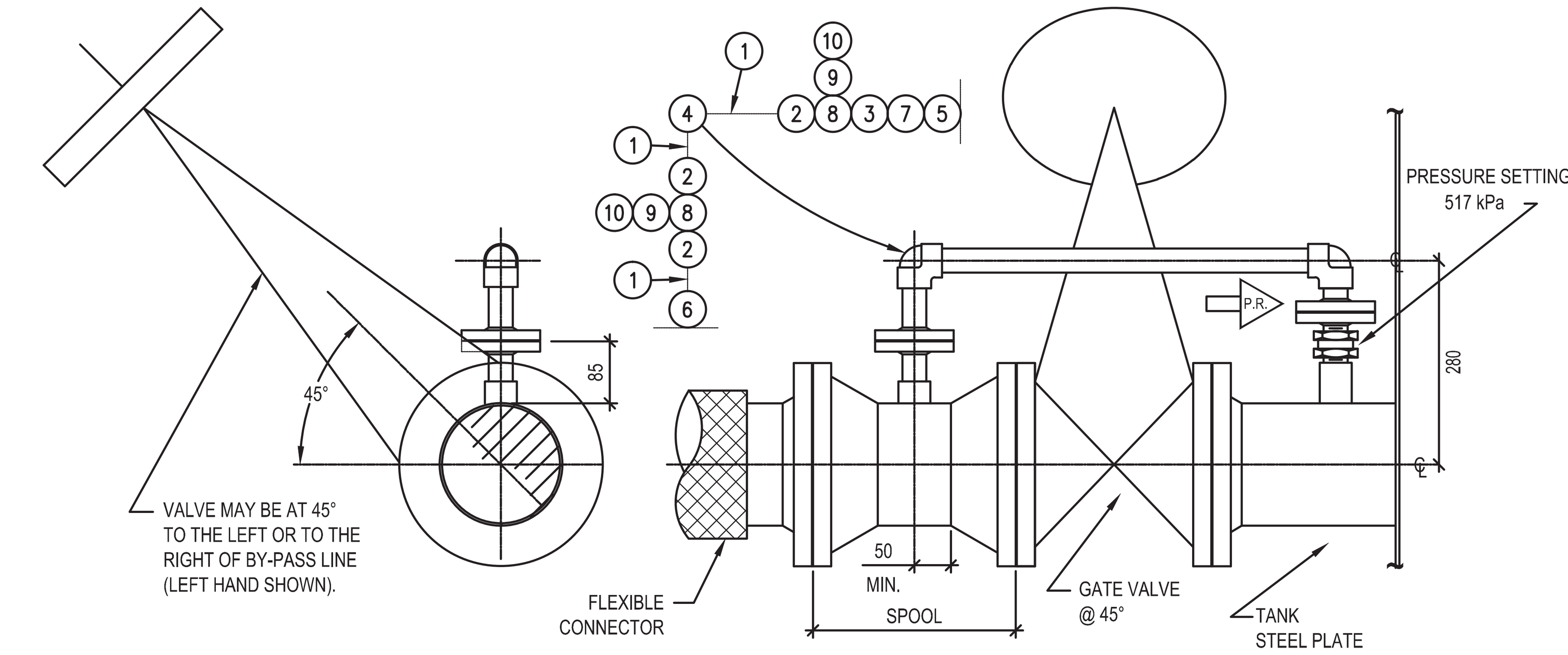
3- REFER TO PARTICULAR PROJECT DRAWINGS FOR ACTUAL ROOF OPENING REQUIRED.

4- FOR NUMBER AND LOCATION OF SHELL BRACKETS "SB1" REFER TO DWG. M1 & M2.

5- FOR MATERIALS REFER TO SPECIFICATIONS.

LEGEND:

T.O.F.P. = TOP OF FLOOR PLATE



FRONT ELEVATION

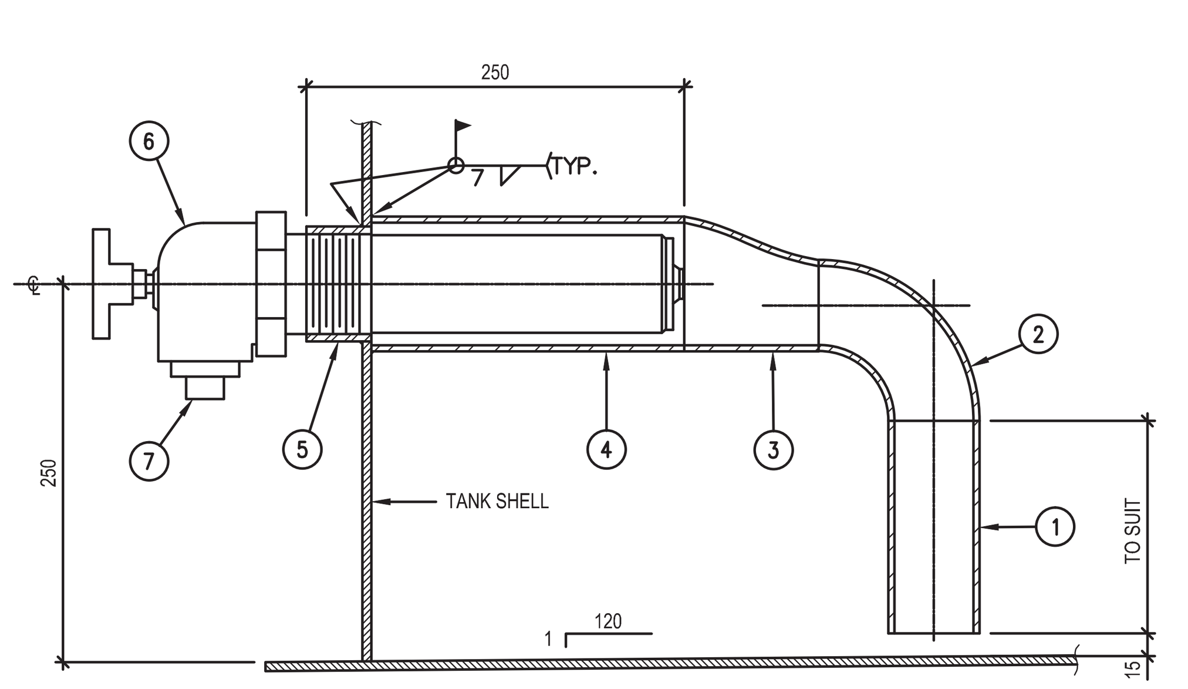
SIDE ELEVATION

LIST OF MATERIAL		
ITEM	SIZE (S.I.)	DESCRIPTION
1	25Ø	PIPE
2		SLIP-ON FLANGE
3		THREADED FLANGE
4		ELBOW 90°, SOCKET WELD
5		HALF COUPLING, SCREWED
6		HALF COUPLING, SOCKET WELD
7		THERMAL PRESSURE RELIEF VALVE (SEE NOTES #1, 2, & 3)
8		GASKET
9	12Ø x 65 LG.	STUD BOLT
10	12Ø	NUT

NOTES:

1- IN-LINE TYPE PRESSURE RELIEF VALVE WITH ENGRAVED ARROW ON ONE SIDE OF VALVE (TO INDICATE DIRECTION IN WHICH PRESSURE IS TO BE RELIEVED)
2- ENSURE THAT NAMEPLATE IS NOT DAMAGED OR PAINTED OVER.
3- BASIC ARRANGEMENT SHOWN IS APPLICABLE TO PRODUCT PIPES 100 mm AND 150 mm DIAMETER.
4- HOLES AT FLANGES TO BE STRADDLED ABOUT HORIZONTAL & VERTICAL AXIS OF PIPE.
5- FOR MORE DESCRIPTION OF ITEMS REFER TO SPECIFICATIONS.

3/M13 MODIFIED INSTALLATION OF PRESSURE RELIEF VALVES
NTS

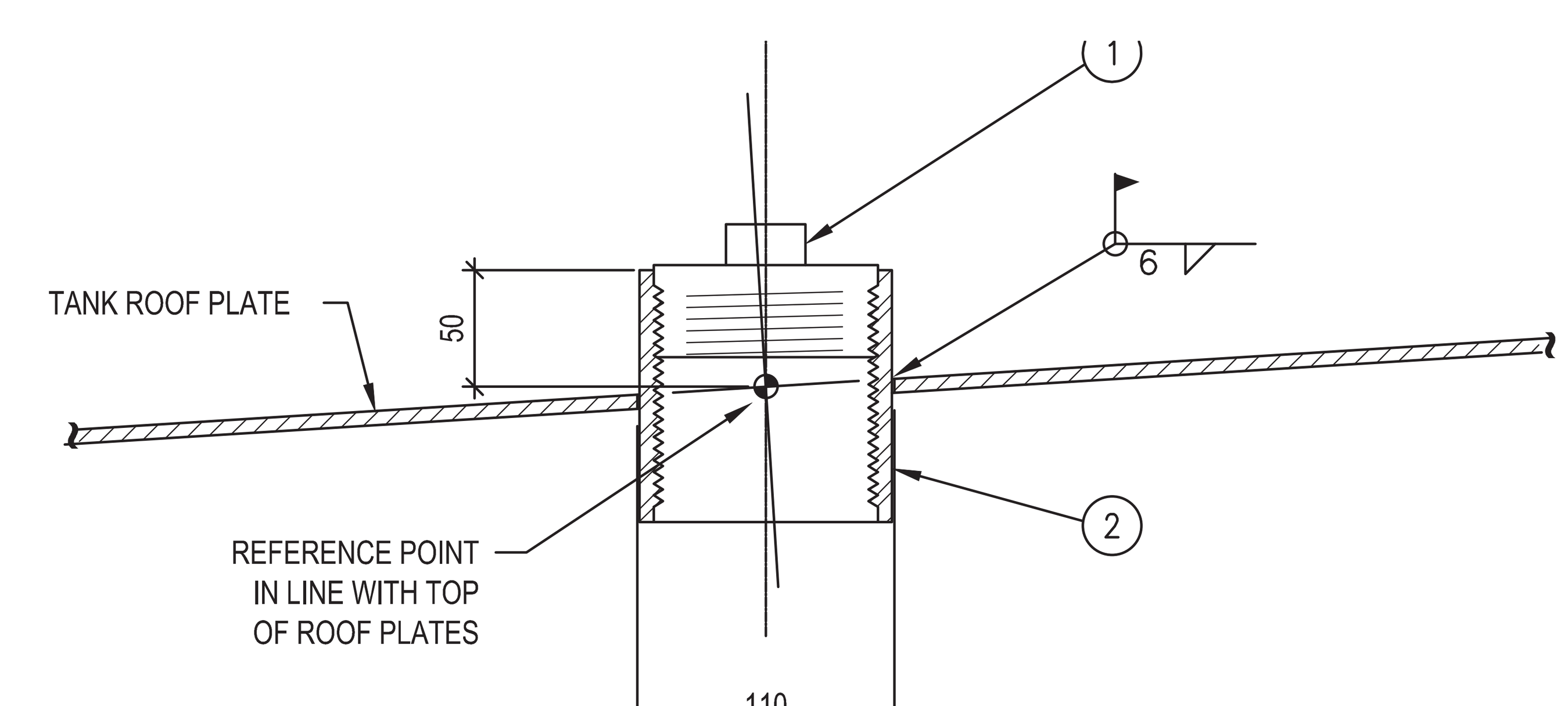


LIST OF MATERIAL		
ITEM	SIZE (S.I.)	DESCRIPTION
1	50Ø	PIPE
2	50Ø	ELBOW 90°, L.R.
3	75Ø x 50Ø	ECCENTRIC REDUCER, FLAT ON BOTTOM
4	75Ø	PIPE
5	50Ø	HALF COUPLING, THREADED
6	50Ø	WATER DRAIN VALVE (LOCKABLE) S&J 96181
7	38Ø	PLUG, THREADED, SQUARE HEAD

NOTES:

1- FOR LOCATION OF "SN3" SEE DWG. M1 - M3.
2- FOR MATERIAL SEE SPECIFICATIONS.

2/M13 WATER DRAIN VALVE CONNECTION
NTS



SECTION THROUGH "RN5"

LIST OF MATERIAL		
ITEM	SIZE (S.I.)	DESCRIPTION
1	75Ø	PLUG, THREADED, SQUARE HEAD
2		COUPLING, THREADED

NOTES:

1- FOR LOCATION OF "RN5" ON TANK ROOF REFER TO DWG. M1 - M3 AND PARTICULAR PROJECT DRAWINGS.
2- FOR MATERIAL AND NOTES REFER TO SPECIFICATIONS.

4/M13 ROOF NOZZLE FOR FUTURE LEVEL GAUGE
NTS

Nunavut

Record Drawing

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DRAWING 1: STD DWG NT–P13
DRAWING 2: STD DWG NT–P12
DRAWING 3: STD DWG NT–P08
DRAWING 5: STD DWG NT–P15

NO.	REVISION DESCRIPTION	DATE ISSUED
03	RECORD DRAWINGS	2013/11/01
02	ISSUED FOR TENDER	2011/06/08
01	ISSUED FOR 95% REVIEW	2011/03/25
00	ISSUED FOR 50% REVIEW	2011/02

PROFESSIONAL SEAL / PERMIT TO PRACTICE

PERMIT TO PRACTICE
STANTEC ARCHITECTURE LTD.
Signature
Date
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

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PROJECT TITLE
FUEL STORAGE FACILITY UPGRADES

LOCATION
CHESTERFIELD INLET, NU

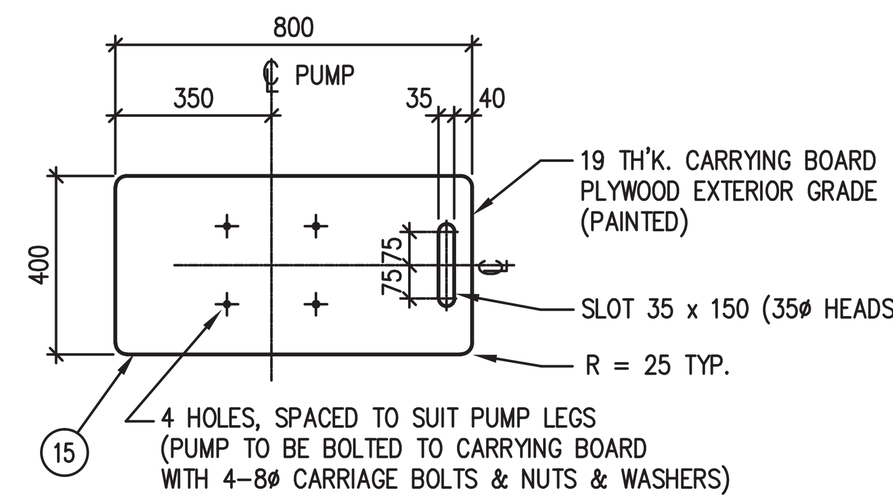
DRAWING TITLE
MISCELLANEOUS DETAILS

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

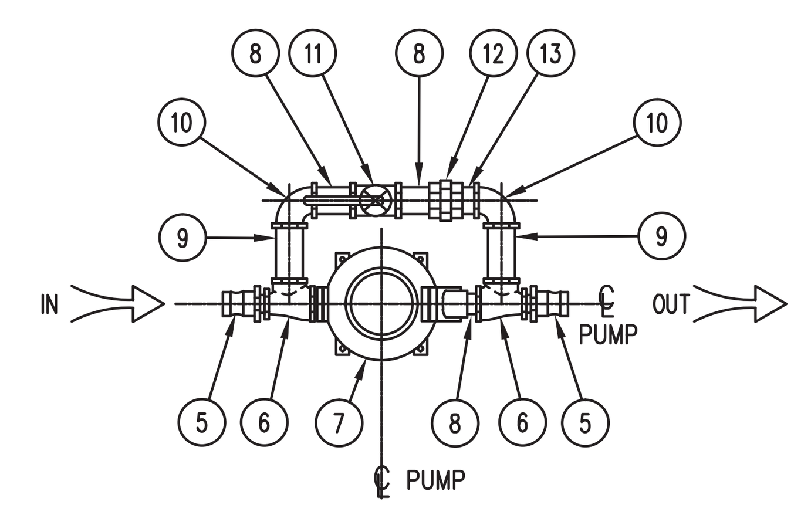
FSC PROJECT NO.
2010-1160

DRAWING NO.
M13

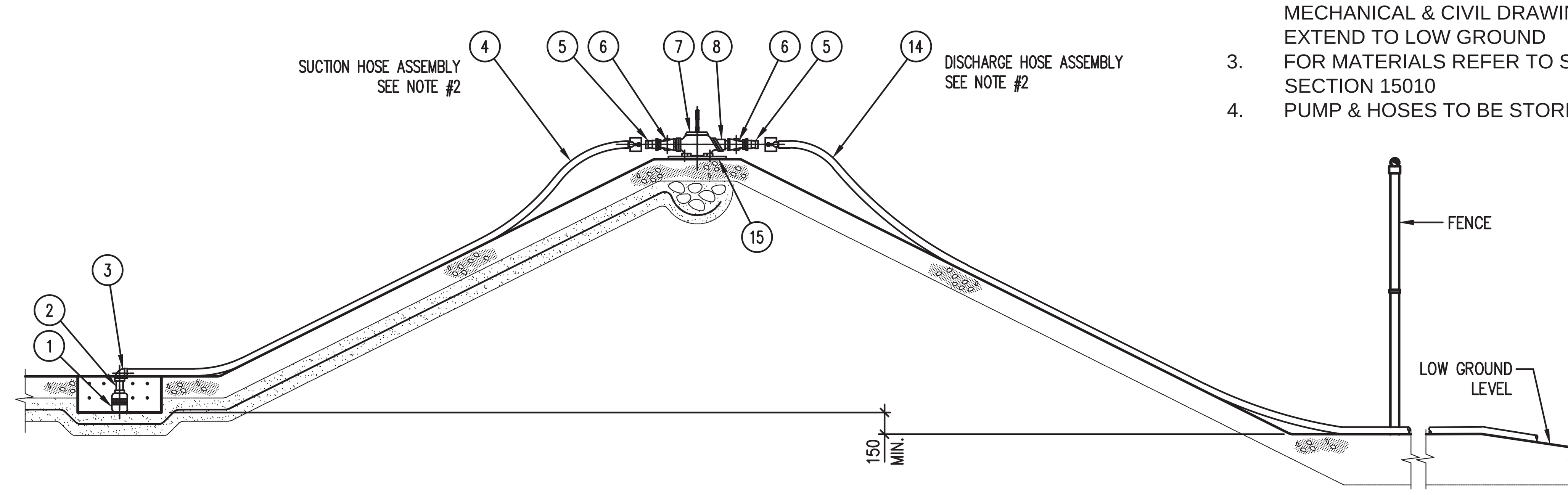
FSC – ANSI-D – 22x34



DETAIL – 2 PUMP CARRYING BOARD



PLAN



DETAIL – 1 DIKE DRAIN PUMP ASSEMBLY INSTALLATION

LIST OF MATERIAL FOR DIKE DRAIN PUMP ASSEMBLY *

ITEM	SIZE (S.I.)	DESCRIPTION
1	50ø	SUCTION STUB STRAINER.
2	50ø x 100 LG.	WELDED STEEL PIPE NIPPLE, THREADED ENDS, GALV'D.
3	50ø	ELBOW 90°, M. I. GALV'D. THR'D.
4		SUCTION HOSE ASSEMBLY (SEE NOTE #2) & SPEC'S.
5		OPW KAMLOK #633-F ADAPTER.
6	50ø x 50ø x 50ø	THREADED TEE, WITH ONE END OF RUN REDUCED, M. I. GALV'D.
7	50ø x 50ø	PROTEK DIAPHRAGM PUMP.
8	50ø x 100 Lg.	WELDED STEEL PIPE NIPPLE, THREADED ENDS, GALV'D.
9	50ø x 200 LG.	WELDED STEEL PIPE NIPPLE, THREADED ENDS, GALV'D.
10	50ø	ELBOW 90°, M. I. THR'D. GALV'D.
11	50ø	BALL VALVE, BRONZE, TH'D ENDS, FEMALE NPT
12	50ø	UNION, M. I., CLASS 300 THR'D. GALV'D.
13	50ø x TO SUIT	PIPE, ERW, GALV'D. THR'D.
14	50ø	DISCHARGE HOSE ASSEMBLY (SEE NOTE #2) & SPEC'S.
15	–	PUMP CARRYING BOARD, SEE DETAIL-2

* FOR DESCRIPTION OF ITEMS SEE SPEC'S.

NOTES:

1. UNLESS OTHERWISE INDICATED ONE DIKE DRAIN PUMP ASSEMBLY TO BE PROVIDED
2. FOR LENGTH OF SUCTION & DISCHARGE HOSES REFER TO MECHANICAL & CIVIL DRAWINGS. DISCHARGE HOSE SHALL EXTEND TO LOW GROUND
3. FOR MATERIALS REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15010
4. PUMP & HOSES TO BE STORED INDOORS WHEN NOT USED

Nunavut

Record Drawing

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NO.	REVISION DESCRIPTION	DATE ISSUED
03	RECORD DRAWINGS	2013/11/01
02	ISSUED FOR TENDER	2011/06/08
01	ISSUED FOR 95% REVIEW	2011/03/25
00	ISSUED FOR 50% REVIEW	2011/02

PROFESSIONAL SEAL / PERMIT TO PRACTICE

PERMIT TO PRACTICE
STANTEC ARCHITECTURE LTD.
Signature
Date 9 SEPT 2016
PERMIT NUMBER: P 800
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
A.F. JOHNSON
NWT/NU
14 SEPT 15

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PROJECT TITLE

FUEL STORAGE FACILITY UPGRADES

LOCATION

CHESTERFIELD INLET, NU

DRAWING TITLE

DRAIN DYKE DETAILS

DRAWN BY	SCALE
AF	AS NOTED
CHECKED BY	CLIENT PROJECT NO.
WO	10-3018

FSC PROJECT NO.: 2010-1160

DRAWING NO.: M14 of 45