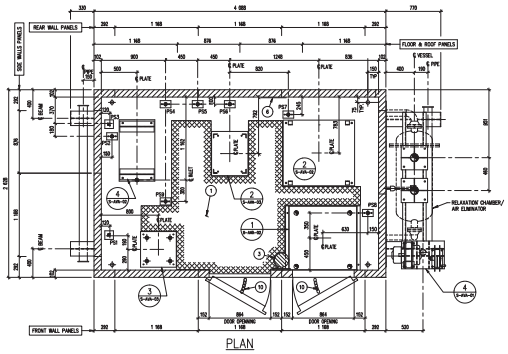
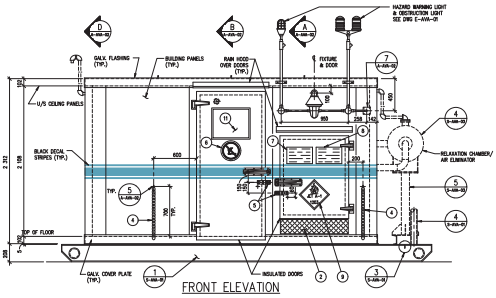
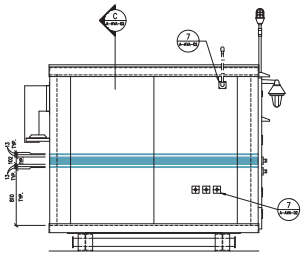


PLAN

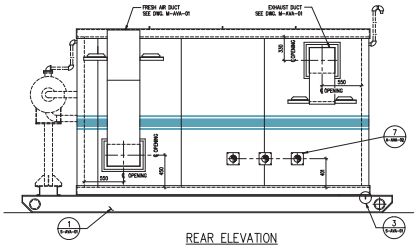
DETAIL 1 A-AVA-01



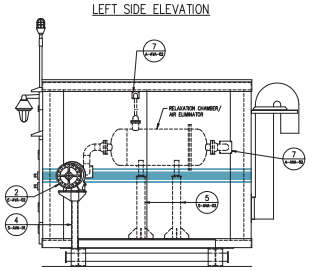
FRONT ELEVATION



LEFT SIDE ELEVATION



REAR ELEVATION



RIGHT SIDE ELEVATION

LEGEND:

1. – NON-SKID ALUMINUM "SAFETY TREAD" FLOORING SHEETS, SEE SPEC'S (DEEP NUMBER OF PLATES TO A MINIMUM)
2. – ALUMINUM CHECKERED PLATE, ALCOA CO. STYLE JC-102 OR EQUIV., 2500W x 900LG. x 3 THK. POP RIVETED TO WALL PANELS AT 150 c/c MAX. SPACING AT PERIMERY
3. – FIRE EXTINGUISHER c/w BRACKET – SEE SPEC'S
4. – HEAVY DUTY CHAIN c/w HOOKS, TYPICAL AT DOORS, SEE SPEC'S
5. – HASP AND CATCH – (2 REQ'D), SEE SPEC'S
6. – "NO SMOKING" SIGN, SEE SPEC'S
7. – "NO SMOKING/STOP YOUR MOTOR" SIGN (IN ENGLISH), SEE SPEC'S
8. – "NO SMOKING/STOP YOUR MOTOR" SIGN (IN LOCAL TRANSLATION), SEE SPEC'S
9. – UN NUMBER, 1203, JET A-1 SIGN, SEE SPEC'S
10. – HEAVY DUTY SPRING BUMPER CHAIN ON ALL DOORS, SEE SPEC'S. (2 REQ'D)
11. – DOUBLE INSULATED GLASS UNIT THERMOCLEAR POLYCARBONATE SHEET & ALUM. FRAME SEE SPEC'S.

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF FRESH AIR INTAKE & EXHAUST DUCTS SEE DWG. M-AVA-01
3. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13230.
4. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	MBE

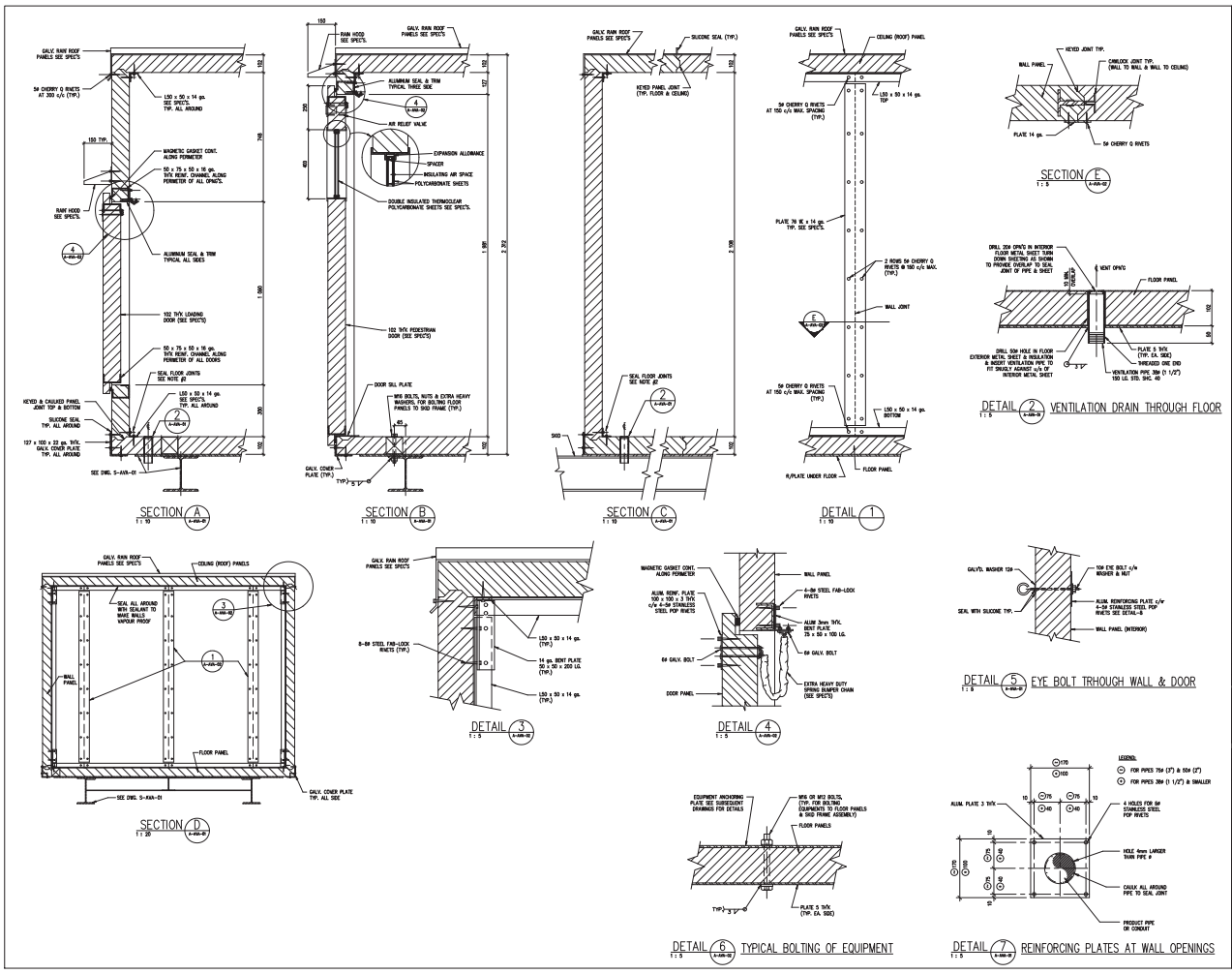
REVISIONS

DESIGN: EDZZ
DRAWN: R.J.
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL FUEL

DRAWING TITLE
FLOOR PLAN & ELEVATIONS

SCALE: 1 : 25
DATE: 04/02/20
DRAWING No. A-AVA-01
REV. 1



Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING.
3. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13230.
4. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.

No	DATE	DESCRIPTION	CHK'D
1	04/10/01	UPDATED	RBE

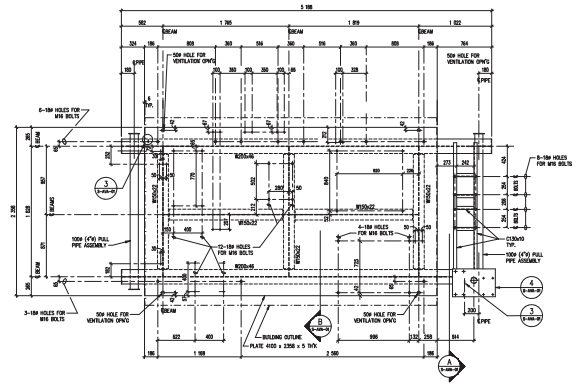
REVISIONS

DESIGN: EDZ
DRAWN: CAD / BL
APPROVED:

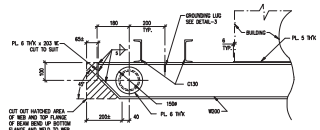
PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL FUEL

DRAWING TITLE
SECTIONS & DETAILS

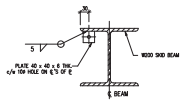
SCALE: 1 : 10 OR AS SHOWN
DATE: 04/02/01
DRAWING No. A-AVA-02
REV. 1



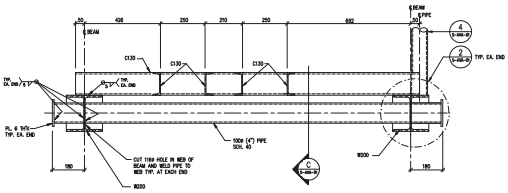
DETAIL 1 (S-AVA-01) SKID ASSEMBLY
1 : 25
(NOTE: HOLES 14M UNLESS NOTED OTHERWISE)



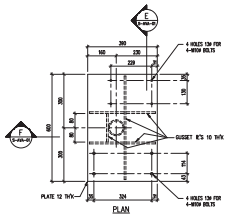
DETAIL 2 (S-AVA-01)
1 : 10



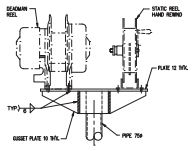
DETAIL 3 (S-AVA-01) GROUNDING LUG (2 REQ'D.)
1 : 5



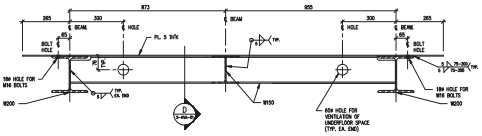
SECTION A (S-AVA-01)
1 : 10



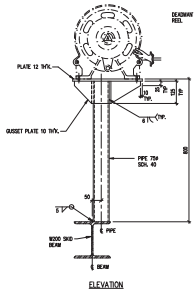
PLAN



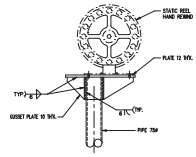
SECTION E (S-AVA-01)



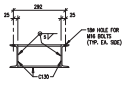
SECTION B (S-AVA-01)
1 : 10



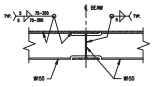
ELEVATION



SECTION F (S-AVA-01)



SECTION C (S-AVA-01)
1 : 10



SECTION D (S-AVA-01)
1 : 10

DETAIL 4 (S-AVA-01) SUPPORT FOR GROUNDING AND DEAD REELS.
1 : 10

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. WELDING AT PLATES FLUSH TO U/S OF FLOOR PANELS SHALL BE GROUND SMOOTH TO PERMIT PROPER BEARING OF PANELS TO PLATES.
3. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
4. ALL BOLTING SHALL BE WITH MACHINE BOLTS TO ASTM. A325 GALVANIZED HEX. HEADS AND NUTS. ALL SCREWS SHALL BE METAL SCREWS GALVANIZED, SIZES AS SHOWN LENGTHS AS REQUIRED.
5. NUMBER AND SPACINGS OF PANEL MOUNTING HOLES COULD VARY TO SUIT SIZE OF FLOOR PANELS. CONTRACTOR TO VERIFY WITH SHOP DRAWINGS OF PANEL MANUFACTURER FOR FINAL PANEL SIZES PRIOR TO FABRICATION OF SKID FRAME.
7. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS.
8. "NO SMOKING" SIGNS AS REQUIRED – SEE SPECIFICATIONS, DIVISION 13, SECTION 13220.
9. "CLOSE TANK VALVE" SIGNS AS REQUIRED – SEE SPEC'S.
10. "AIRCRAFT GROUNDING" SIGNS AS REQUIRED – SEE SPEC'S.
10. POST PROCESS FLOW SHEETS AND OPERATING INSTRUCTIONS.
11. SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	MB

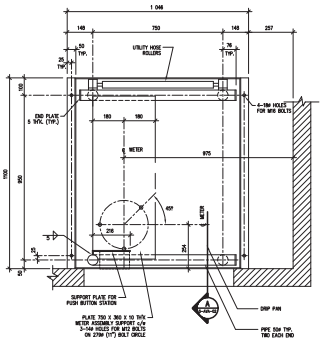
REVISIONS

DESIGN: EDZZ
DRAWN: RJJ
APPROVED:

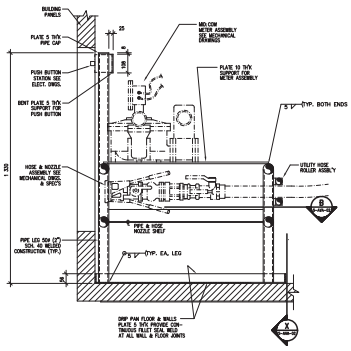
PROJECT TITLE
DISPENSER BUILDING FOR
JET A-1 AVIATION FUEL
AT AIRPORT AND
JET A-1 / LSDL FUEL

DRAWING TITLE
SKID ASSEMBLY PLAN,
SECTIONS & DETAILS

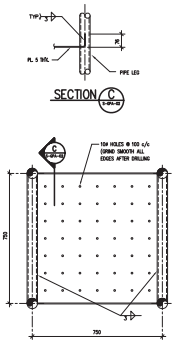
SCALE: 1 : 25 OR AS SHOWN
DATE: 04/02/01
DRAWING No. S-AVA-01
REV. 1



DETAIL 1 (S-AVA-02) DRIP PAN & METER SUPPORT FOR JET A-1

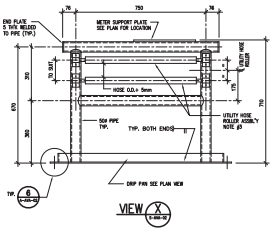


SECTION A (S-AVA-02)

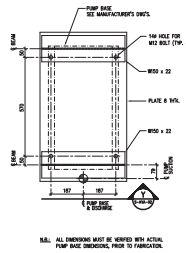


SECTION C (S-AVA-02)

SECTION B (S-AVA-02)

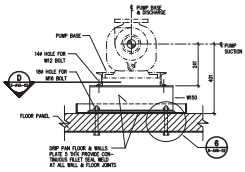


VIEW X (S-AVA-02)

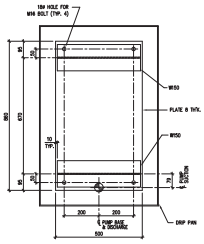


N.B.: ALL DIMENSIONS MUST BE VERIFIED WITH ACTUAL PUMP BASE DIMENSIONS, PRIOR TO FABRICATION.

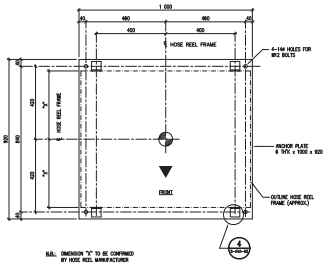
DETAIL 2 (S-AVA-02) BASE FOR JET A-1 PUMP



VIEW Y (S-AVA-02)

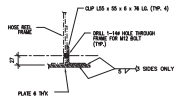


SECTION D (S-AVA-02)



N.B.: DIMENSION "X" TO BE CONFIRMED BY HOSE REEL MANUFACTURER

DETAIL 3 (S-AVA-02) ANCHOR PLATE FOR HOSE REEL (FOR AIRPORT BUILDING ONLY)



DETAIL 4 (S-AVA-02)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR OTHER NOTES REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13230.
3. FOR DETAILS ON UTILITY ROLLERS AND END BRACKETS REFER TO SPECIFICATIONS ON HOSE REEL.
4. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
5. DELETE HOSE REEL AND UTILITY HOSE ROLLERS FOR TANK FARM JET A-1 / LSDL FUEL BUILDING.

No	DATE	DESCRIPTION	DWN'D
1	94/03/07	UPDATED	RGW

REVISIONS

Northwest Territories Public Works & Services

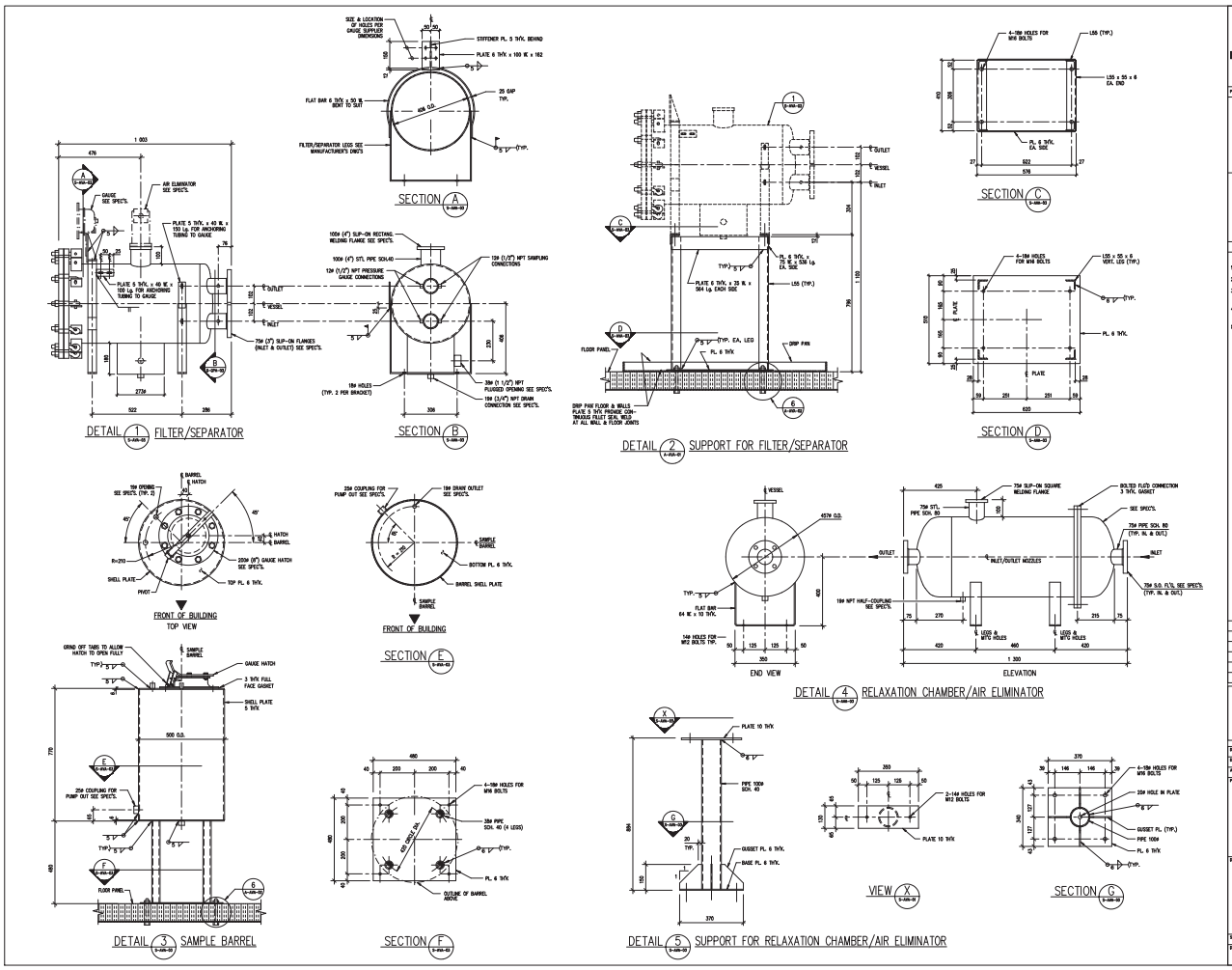
PERMIT & PROFESSIONAL STAMPS

DESIGN: RGW
DRAWN: CAD / SL
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL FUEL

DRAWING TITLE
DRIP PAN & METER SUPPORT, ANCHOR PLATE FOR HOSE REEL & PUMP BASE SECTIONS & DETAILS

SCALE: 1 : 10 OR AS SHOWN
DATE: 94/03/21
DRAWING No.: S-AVA-02
REV.: 1



Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. STEEL PLATE MATERIAL: CAN.G.PM (300 W)
3. FOR OTHER NOTES REFER TO SUBSIDIARY DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.
4. FOR PARTICULARS ON FILTER/SEPARATOR & RELAXATION CHAMBER REFER TO SPECIFICATIONS, DIV. 13, SECTION 13220.
5. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON FILTER/SEPARATOR VESSEL OR NOZZLES WITH EPOXY COATED INTERIORS.

No	DATE	DESCRIPTION	CHK'D
1	04/04/01	UPDATED	RBE

REVISIONS

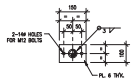
DESIGN: RWE
DRAWN: CAD / BL
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL FUEL

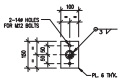
DRAWING TITLE
FILTER/SEPARATOR, SAMPLE BARREL AND RELAXATION CHAMBER SECTIONS & DETAILS

SCALE: 1 : 10 DATE: 04/02/20

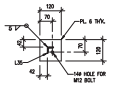
DRAWING No. S-AVA-03 REV. 1



SECTION 1 / S-AVA-04

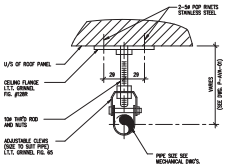


SECTION 2 / S-AVA-04



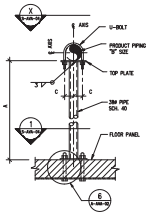
SECTION 3 / S-AVA-04

TABLE FOR PIPE SUPPORTS						
NO.	TYPE	A	B	C	D	E
PS2	3	350	250	20	-	84
PS2	1	1 055	750	52	130	129
PS3	3	350	250	20	-	84
PS4	1	356	750	52	130	129
PS5	1	356	750	52	130	129
PS6	1	300	750	52	130	129
PS7	2	1 259	750	52	130	129
PS8	1	406	750	52	130	129
PS9	1	356	750	52	130	129

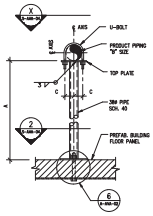


PIPE HANGERS (PH1 TO PH17)

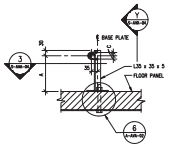
DETAIL 2 / S-AVA-04
1 : 25



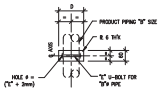
TYPE 1



TYPE 2



TYPE 3



VIEW X / S-AVA-04

VIEW Y / S-AVA-04

DETAIL 1 / S-AVA-04 PIPE SUPPORTS

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR OTHER NOTES REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13030.
3. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
4. ALL HOLD DOWN BOLTS OR NUTS TO BE TACK WELDED TO UNDERSIDE OF FLOOR PLATES.

No	DATE	DESCRIPTION	CHK'D
1	04/10/07	UPDATED	CHK'D

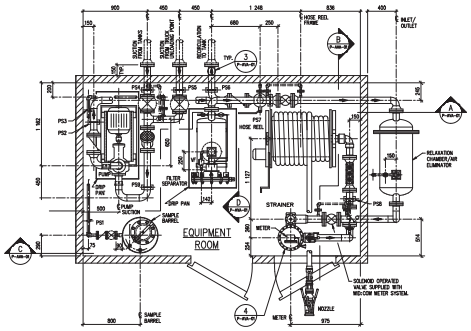
REVISIONS

DESIGN: EDZ
DRAWN: RJ
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR
JET A-1 AVIATION FUEL
AT AIRPORT AND
JET A-1 / LSDL FUEL

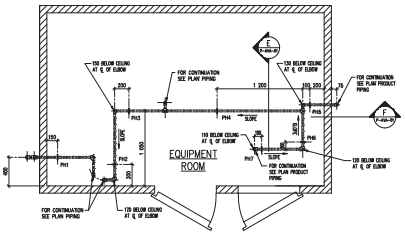
DRAWING TITLE
PIPE SUPPORTS
SECTIONS & DETAILS

SCALE: 1 : 10 OR AS SHOWN
DATE: 04/02/20
DRAWING No: S-AVA-04
REV: 1



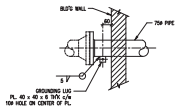
PLAN

DETAIL 1 (P-AVA-01) PRODUCT PIPING



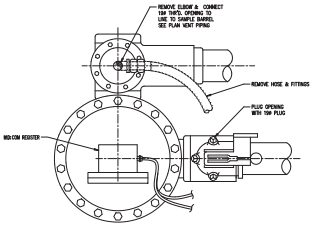
PLAN

DETAIL 2 (P-AVA-01) VENT PIPING

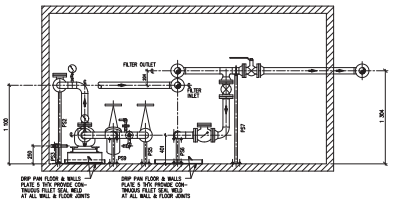


STATIC ELECTRICITY GROUNDING LUG
(3 REQ'D)

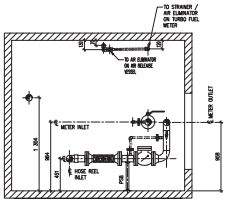
DETAIL 3 (P-AVA-01)
1 : 12.5



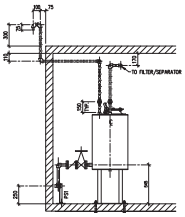
DETAIL 4 (P-AVA-01)
1 : 5



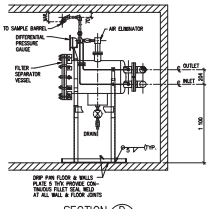
SECTION A (P-AVA-01)



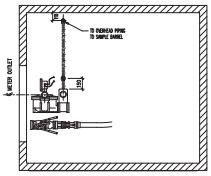
SECTION B (P-AVA-01)



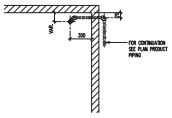
SECTION C (P-AVA-01)



SECTION D (P-AVA-01)



SECTION E (P-AVA-01)



SECTION F (P-AVA-01)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
2. WELDING TO CONFORM TO CAN/CSA-B051-M, BOILER, PRESSURE VESSEL AND PRESSURE PIPING CODE. ALL ELECTRODES TO BE E7018. SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.
3. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900.
4. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW. REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230. (←→)

No	DATE	DESCRIPTION	CHK'D
1	04/10/07	UPDATED	WBE

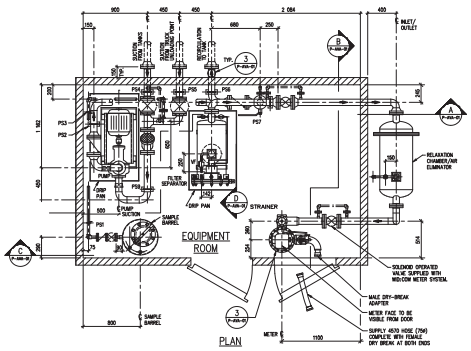
REVISIONS

DESIGN: RYAN
DRAWN: RJ
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT

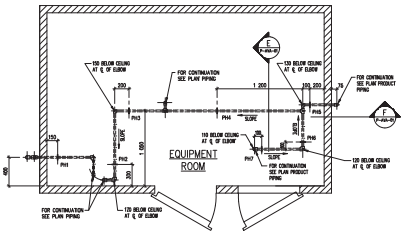
DRAWING TITLE
PIPING PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN
DATE: 04/02/20
DRAWING No: P-AVA-01
REV: 1



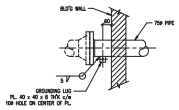
PLAN

DETAIL 1 (P-AVA-01) PRODUCT PIPING



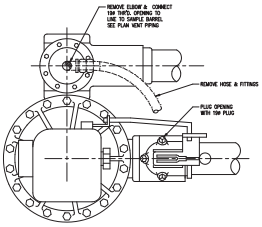
PLAN

DETAIL 2 (P-AVA-01) VENT PIPING

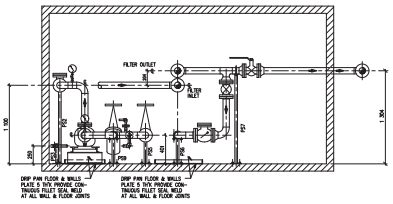


STATIC ELECTRICITY GROUNDING LUG
(3 REQ'D)

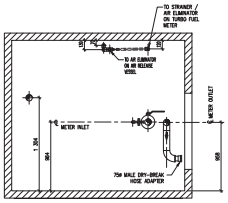
DETAIL 3 (P-AVA-01)
1 : 12.5



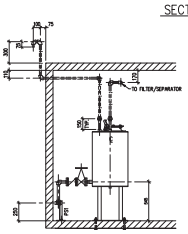
DETAIL 4 (P-AVA-01)
1 : 5



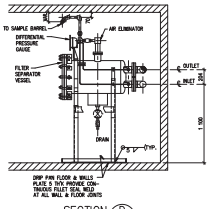
SECTION A (P-AVA-01)



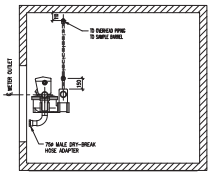
SECTION B (P-AVA-01)



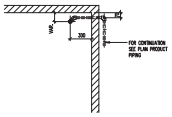
SECTION C (P-AVA-01)



SECTION D (P-AVA-01)



SECTION E (P-AVA-01)



SECTION F (P-AVA-01)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
2. WELDING TO CONFORM TO CAN/CSA-B51-14, BOILER, PRESSURE VESSEL AND PRESSURE PIPING CODE. ALL ELECTRODES TO BE E7018. SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.
3. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900.
4. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230. (➡)

No	DATE	DESCRIPTION	CHK'D
1	04/10/21	UPDATED	RBE

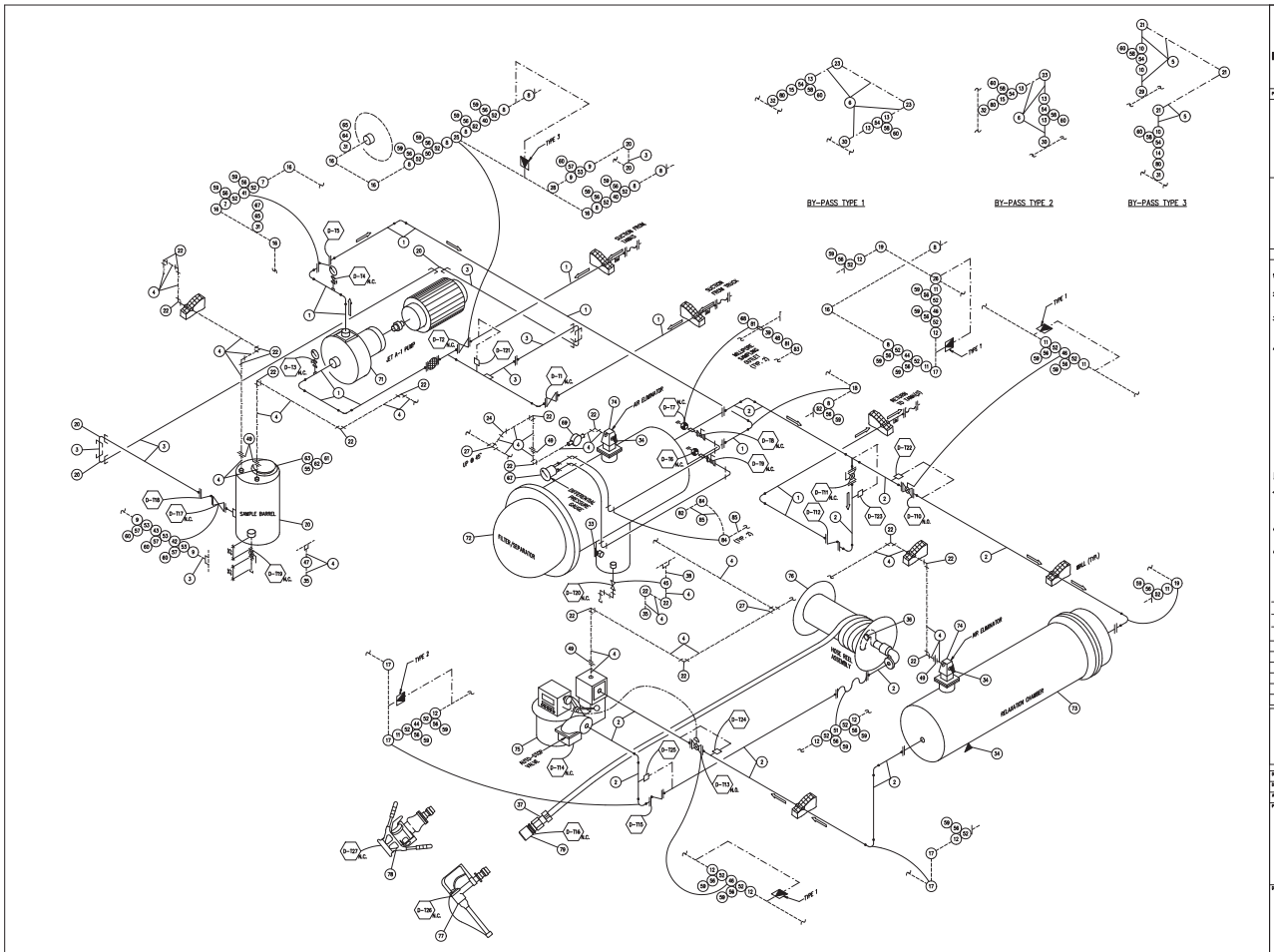
REVISIONS

DESIGN: RYAN
DRAWN: RJ
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 / LSDL FUEL AT TANK FARM

DRAWING TITLE
PIPING PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN
DATE: 04/02/20
DRAWING No. P-AVA-01A
REV. 1



SCHEMATIC ISOMETRIC JET A-1 DISPENSING SYSTEM

(NO SCALE)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION OF CIRCLED NUMBERS REFER TO DRAWING P-AVA-02A.
2. NOZZLES AND DRY-BREAK ADAPTER ASSEMBLIES TO BE REMOVED AFTER SHOP TESTING, SHIPPED WITH DISPENSER AND REINSTALLED IN FIELD AS DIRECTED.
3. THERMAL PRESSURE TO BE RELIEVED IN DIRECTION OF ARROW (TOWARDS STORAGE TANKS). FOR PRESSURE SETTINGS OF PRESSURE RELIEF VALVES REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230.
4. FOR OTHER NOTES SEE DWG. P-AVA-01.

LEGEND:

: INDICATES DIRECTION OF PRESSURE RELIEF VALVE

: ARROW INDICATES DIRECTION OF FLOW (SEE SPEC'S.)

(D-F) : INDICATES VALVE NUMBER ON P-50 FUEL OIL SYSTEM

(D-G) : INDICATES VALVE NUMBER ON GASOLINE SYSTEM.

N.C. : NORMALLY CLOSED

N.O. : NORMALLY OPENED

: INDICATES VENT PIPING LINE.

: INDICATES PRESSURE RELIEF LINE.

: INDICATES CONTROL WIRING.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	MB

REVISIONS

DESIGN: RYAN

DRAWN: R.J.

APPROVED:

PROJECT TITLE

DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT

DRAWING TITLE

PIPING ISOMETRIC

SCALE: 1 : 1

DATE: 04/02/20

DRAWING No. P-AVA-02

REV. 1

BILL OF MATERIALS FOR JET A-1 AVIATION FUEL DISPENSER BUILDING

(NO SCALE)

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 ø	PIPE, SCH. 40, SEAMLESS
2	75 ø	PIPE STAINLESS STEEL SEE SECTION 13230
3	25 ø	PIPE, SCH. 80, SEAMLESS
4	19 ø	PIPE, SCH. 80, SEAMLESS
5	12 ø	PIPE, SCH. 160, SEAMLESS
6	12 ø	PIPE STAINLESS STEEL SEE SECTION 13230
7	75 ø	WELDING NECK FLANGE, CLASS 150, FSRF
8	75 ø	SLIP-ON FLANGE, CLASS 150, FSRF
9	25 ø	SLIP-ON FLANGE, CLASS 150, FSRF
10	12 ø	SLIP-ON FLANGE, CLASS 150, FSRF
11	75 ø	WELDING NECK FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
12	75 ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
13	12 ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
14	12 ø	THREADED FLANGE, CLASS 150, FSRF
15	12 ø	THREADED FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
16	75 ø	ELBOW 90° L.R.
17	75 ø	ELBOW 90 ° L.R. STAINLESS STEEL SEE SECTION 13230
18	75 ø	ELBOW 90° S.R.
19	75 ø	ELBOW S.R. STAINLESS STEEL SEE SECTION 13230
20	25 ø	ELBOW 90° SOCKET WELD
21	12 ø	ELBOW 90° SOCKET WELD
22	19 ø	ELBOW 90° MALLEABLE IRON
23	12 ø	ELBOW 90° SOCKET WELD STAINLESS STEEL SEE SECTION 13230
24	19 ø	ELBOW 45 ° MALLEABLE IRON
25	75 ø	STRAIGHT TEE
26	75 ø	STRAIGHT TEE STAINLESS STEEL SEE SECTION 13230
27	19 ø	STRAIGHT TEE MALLEABLE IRON
28	25 ø	HALF-COUPLING SOCKET WELD
29	12 ø	HALF-COUPLING SOCKET WELD
30	12ø	HALF-COUPLING SOCKET WELD STAINLESS STEEL SEE SECTION 13230
31	12 ø	HALF-COUPLING THREADED
32	12 ø	HALF-COUPLING THREADED STAINLESS STEEL SEE SECTION 13230
33	38 ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
34	19 ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
35	19 ø	PIPE CAP MALLEABLE IRON
36	75 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD STAINLESS STEEL SEE SECTION 13230
37	65 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD ALUMINUM ALLOY 6061-T6 TO AINSI B16.14
38	19 ø x 75 Lg.	PIPE NIPPLE STAINLESS STEEL SEE SECTION 13230
39	12 ø x 50 Lg.	PIPE NIPPLE THREADED STAINLESS STEEL SEE SECTION 13230
40	75 ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, WCB
41	75 ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, WCB
42	25 ø	GATE VALVE FORGED STEEL FLANGED, CLASS 150, WCB
43	25 ø	CHECK VALVE FORGED STEEL FLANGED, CLASS 150, WCB
44	75 ø	CHECK VALVE STAINLESS STEEL FLANGED SEE SECTION 13230, CLASS 150
45	19 ø	GATE VALVE FORGED STAINLESS STEEL THREADED SEE SECTION 13230, CLASS 150

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
46	75 ø	SOLENOID OPERATED VALVE SUPPLIED WITH MID:COM METER SYSTEM
47	19 ø	BALL VALVE CARBON STEEL THREADED
48	12 ø	BALL VALVE STAINLESS STEEL THREADED SEE SECTION 13230
49	19 ø	UNION MALLEABLE IRON CLASS 300 GROUND JOINT COPPER ALLOY TO IRON
50	75 ø	STRAINER SEE SECTION 13230
51	75 ø	FLEXIBLE CONNECTOR STAINLESS STEEL SEE SECTION 13230
52	75 ø x 150#	GASKET
53	25 ø x 150#	GASKET
54	12 ø x 150#	GASKET
55	200 ø	GASKET FULL FACE
56	16 ø x 89 Lg.	STUD BOLTS FOR CLASS 150, 75# AND 100# FLANGES
57	16 ø x 76 Lg.	STUD BOLTS FOR CLASS 150, 50# FLANGES
58	12 ø x 65 Lg.	STUD BOLTS FOR CLASS 150, 25# AND 12# FLANGES
59	16 ø	NUTS
60	12 ø	NUTS
61	19 ø	NUTS
62	19 ø x 38 Lg.	MACHINE BOLT SEE SECTION 13230
63	200 ø	GAUGE HATCH SEE SECTION 13230
64		GAUGE VALVE SECTION 13230
65		COMPOUND PRESSURE/VACUUM GAUGE SEE SECTION 13230
66		PRESSURE GAUGE SEE SECTION 13230
67	6 ø x 150 ø	DIFFERENTIAL PRESSURE GAUGE SEE SECTION 13230
68		MILLIPORE TEST OUTLET & SAMPLING PROBE ASSEMBLY SEE SECTION 13230
69	19 ø	SIDE FLOW INDICATOR THREADED ENDS STAINLESS STEEL 316 OPW VISI-FLO MODEL NO. 1470
70	1	SAMPLE BARREL SEE SECTION 13230
71	1	JET A-1 AVIATION FUEL PUMP SEE SECTION 13230
72	1	FILTER/SEPARATOR SEE SECTION 13230
73	1	RELAXATION CHAMBER SEE SECTION 13230
74	1	AIR ELIMINATOR SEE SECTION 13230
75	1	JET A-1 AVIATION FUEL METERING ASS'Y SEE SECTION 13230, C/W AUTO. TEMP. COMPENSATION
76	1	HOSE AND REEL ASSEMBLY SEE SECTION 13230
77	1	OVERWING AIRCRAFT FUELING NOZZLE SEE SECTION 13230
78	1	UNDERWING AIRCRAFT FUELING NOZZLE SEE SECTION 13230
79	1	DRY-BREAK DISCONNECT SEE SECTION 13230
80	12 ø	PRESSURE RELIEF VALVE SEE SECTION 13230
81	12 ø x 6 ø	PIPE THREAD REDUCER MALE PIPE/FEMALE PIPE STAINLESS STEEL PARKER PART NO. 1/2 x 1/4-PTR-SS
82	6 o.d x 6 ø	MALE CONNECTOR FLARE LESS TUBE END/MALE PIPE END STAINLESS STEEL PARKER PART NO. 4-4-FBU-SS
83	6 o.d. x	ELBOW 90° LONG MALE FLARE LESS TUBE END/LONG MALE PIPE END STAINLESS STEEL PARKER PART NO. 4-4-CCBU-SS
84	6 o.d. x 6 o.d.	UNION ELBOW 90° FLARE LESS TUBE ENDS STAINLESS STEEL PARKER PART NO. 4-EBU-SS.
85	6 o.d.	TUBING STAINLESS STEEL 316 COLD DRAWN ANNEALED SEAMLESS 16 GAUGE (1.651 mm WALL)
		TO ASTM A-269

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR EQUIPMENT SCHEMATICS SEE DRAWING P-AVA-02.

No	DATE	DESCRIPTION	CHK'D
1	04/10/07	UPDATED	MB

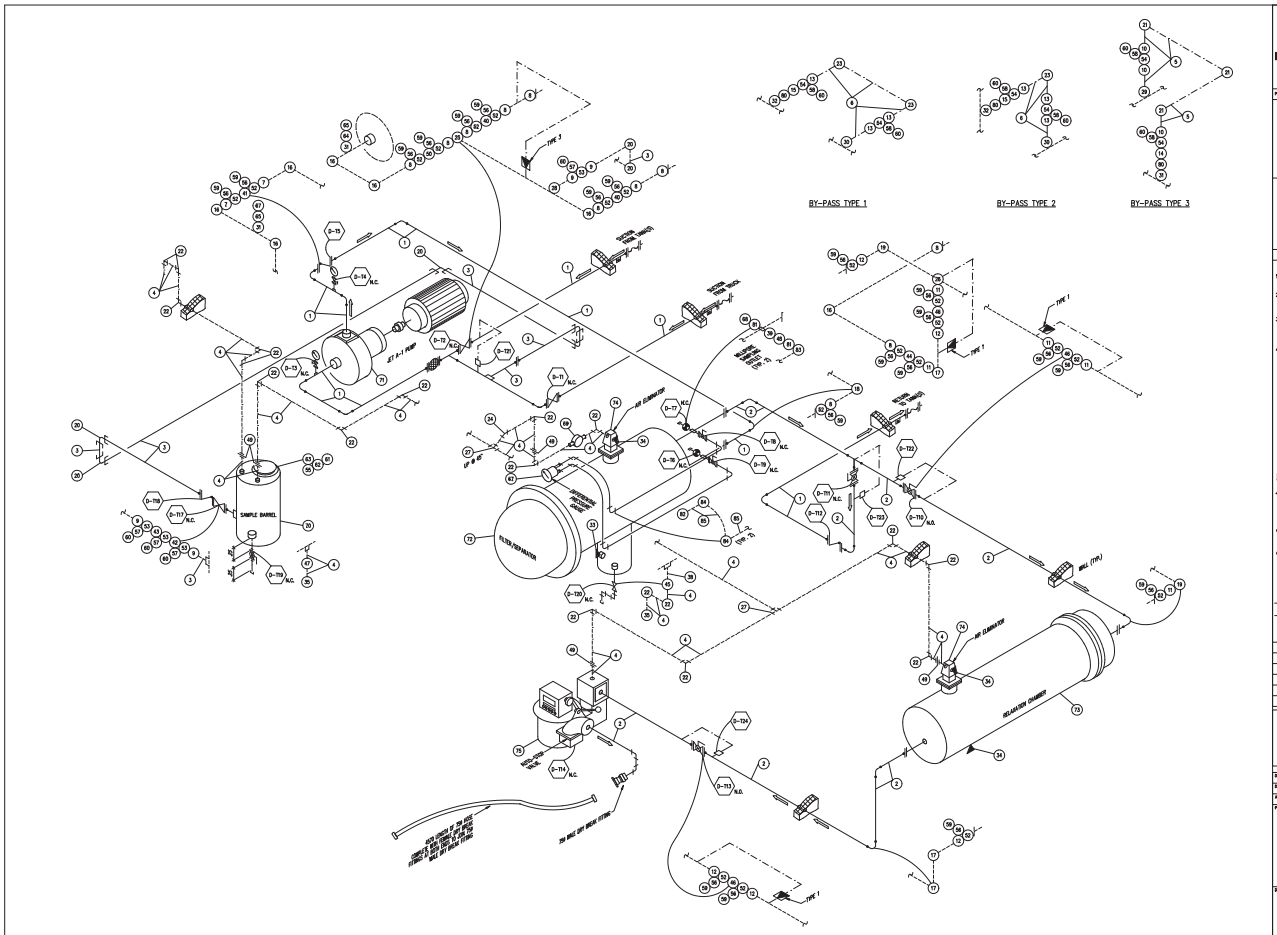
REVISIONS

DESIGN: RMB
DRAWN: RJ
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT

DRAWING TITLE
BILL OF MATERIALS

SCALE: N.T.S.
DATE: 04/02/20
DRAWING No. P-AVA-02A
REV. 1



SCHEMATIC ISOMETRIC JET A-1 / LSDL DISPENSING SYSTEM

(NO SCALE)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION OF CIRCLED NUMBERS REFER TO DRAWING P-AVA-02A.
2. NOZZLES AND DRY-BREAK ADAPTER ASSEMBLIES TO BE REMOVED AFTER SHOP TESTING, SHIPPED WITH DISPENSER AND REINSTALLED IN FIELD AS DIRECTED.
3. THERMAL PRESSURE TO BE RELIEVED IN DIRECTION OF ARROW (TOWARDS STORAGE TANKS). FOR PRESSURE SETTINGS OF PRESSURE RELIEF VALVES REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230.
4. FOR OTHER NOTES SEE DWG. P-AVA-01.

LEGEND:

: INDICATES DIRECTION OF PRESSURE RELIEF VALVE

: ARROW INDICATES DIRECTION OF FLOW (SEE SPEC'S.)

D-F7 : INDICATES VALVE NUMBER ON P-50 FUEL OIL SYSTEM

D-G7 : INDICATES VALVE NUMBER ON GASOLINE SYSTEM

N.C. : NORMALLY CLOSED

N.O. : NORMALLY OPENED

: INDICATES VENT PIPING LINE.

: INDICATES PRESSURE RELIEF LINE.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	MB

REVISIONS

DESIGN: RYAN

DRAWN: R.J.

APPROVED:

PROJECT TITLE

DISPENSER BUILDING FOR JET A-1 / LSDL FUEL AT TANK FARM

DRAWING TITLE

PIPING ISOMETRIC

SCALE: 1 : 1

DATE: 04/02/20

DRAWING No. P-AVA-03

REV. 1

BILL OF MATERIALS FOR JET A-1 AVIATION FUEL DISPENSER BUILDING

(NO SCALE)

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 ø	PIPE, SCH 40, SEAMLESS
2	75 ø	PIPE STAINLESS STEEL SEE SECTION 13230
3	25 ø	PIPE, SCH 80, SEAMLESS
4	19 ø	PIPE, SCH 80, SEAMLESS
5	12 ø	PIPE, SCH 160, SEAMLESS
6	12 ø	PIPE STAINLESS STEEL SEE SECTION 13230
7	75 ø	WELDING NECK FLANGE, CLASS 150, FSRF
8	75 ø	SLIP-ON FLANGE, CLASS 150, FSRF
9	25 ø	SLIP-ON FLANGE, CLASS 150, FSRF
10	12 ø	SLIP-ON FLANGE, CLASS 150, FSRF
11	75 ø	WELDING NECK FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
12	75 ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
13	12 ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
14	12 ø	THREADED FLANGE, CLASS 150, FSRF
15	12 ø	THREADED FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
16	75 ø	ELBOW 90° L.R.
17	75 ø	ELBOW 90 ° L.R. STAINLESS STEEL SEE SECTION 13230
18	75 ø	ELBOW 90° S.R.
19	75 ø	ELBOW S.R. STAINLESS STEEL SEE SECTION 13230
20	25 ø	ELBOW 90° SOCKET WELD
21	12 ø	ELBOW 90° SOCKET WELD
22	19 ø	ELBOW 90° MALLEABLE IRON
23	12 ø	ELBOW 90° SOCKET WELD STAINLESS STEEL SEE SECTION 13230
24	19 ø	ELBOW 45 ° MALLEABLE IRON
25	75 ø	STRAIGHT TEE
26	75 ø	STRAIGHT TEE STAINLESS STEEL SEE SECTION 13230
27	19 ø	STRAIGHT TEE MALLEABLE IRON
28	25 ø	HALF-COUPLING SOCKET WELD
29	12 ø	HALF-COUPLING SOCKET WELD
30	12ø	HALF-COUPLING SOCKET WELD STAINLESS STEEL SEE SECTION 13230
31	12 ø	HALF-COUPLING THREADED
32	12 ø	HALF-COUPLING THREADED STAINLESS STEEL SEE SECTION 13230
33	38 ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
34	19 ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
35	19 ø	PIPE CAP MALLEABLE IRON
36	75 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD STAINLESS STEEL SEE SECTION 13230
37	65 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD ALUMINUM ALLOY 6061-T6 TO AINSI B16.14
38	19 ø x 75 Lg.	PIPE NIPPLE STAINLESS STEEL SEE SECTION 13230
39	12 ø x 50 Lg.	PIPE NIPPLE THREADED STAINLESS STEEL SEE SECTION 13230
40	75 ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, WCB
41	75 ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, WCB
42	25 ø	GATE VALVE FORGED STEEL FLANGED, CLASS 150, WCB
43	25 ø	CHECK VALVE FORGED STEEL FLANGED, CLASS 150, WCB
44	75 ø	CHECK VALVE STAINLESS STEEL FLANGED SEE SECTION 13230, CLASS 150
45	19 ø	GATE VALVE FORGED STAINLESS STEEL THREADED SEE SECTION 13230, CLASS 150

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
46	75 ø	BALL VALVE STAINLESS STEEL FLANGED SEE SECTION 13230
47	19 ø	BALL VALVE CARBON STEEL THREADED
48	12 ø	BALL VALVE STAINLESS STEEL THREADED SEE SECTION 13230
49	19 ø	UNION MALLEABLE IRON CLASS 300 GROUND JOINT COPPER ALLOY TO IRON
50	75 ø	STRAINER SEE SECTION 13230
51	75 ø	FLEXIBLE CONNECTOR STAINLESS STEEL SEE SECTION 13230
52	75 ø x 150#	GASKET
53	25 ø x 150#	GASKET
54	12 ø x 150#	GASKET
55	200 ø	GASKET FULL FACE
56	16 ø x 89 Lg.	STUD BOLTS FOR CLASS 150, 75# AND 100# FLANGES
57	16 ø x 76 Lg.	STUD BOLTS FOR CLASS 150, 50# FLANGES
58	12 ø x 65 Lg.	STUD BOLTS FOR CLASS 150, 25# AND 12# FLANGES
59	16 ø	NUTS
60	12 ø	NUTS
61	19 ø	NUTS
62	19 ø x 38 Lg.	MACHINE BOLT SEE SECTION 13230
63	200 ø	GAUGE HATCH SEE SECTION 13230
64		GAUGE VALVE SECTION 13230
65		COMPOUND PRESSURE/VACUUM GAUGE SEE SECTION 13230
66		PRESSURE GAUGE SEE SECTION 13230
67	6 ø x 150 ø	DIFFERENTIAL PRESSURE GAUGE SEE SECTION 13230
68		MILLIPORE TEST OUTLET & SAMPLING PROBE ASSEMBLY SEE SECTION 13230
69	19 ø	SIDE FLOW INDICATOR THREADED ENDS STAINLESS STEEL 316 OPW VISI-FLO MODEL NO. 1470
70	1	SAMPLE BARREL SEE SECTION 13230
71	1	JET A-1 AVIATION FUEL PUMP SEE SECTION 13230
72	1	FILTER/SEPARATOR SEE SECTION 13230
73	1	RELAXATION CHAMBER SEE SECTION 13230
74	1	AIR ELIMINATOR SEE SECTION 13230
75	1	JET A-1 AVIATION FUEL METERING ASS'Y SEE SECTION 13230, C/W AUTO. TEMP. COMPENSATION
79	1	DRY-BREAK DISCONNECT SEE SECTION 13230
80	12 ø	PRESSURE RELIEF VALVE SEE SECTION 13230
81	12 ø x 6 ø	PIPE THREAD REDUCER MALE PIPE/FEMALE PIPE STAINLESS STEEL PARKER PART NO. 1/2 x 1/4-PTR-SS
82	6 o.d x 6 ø	MALE CONNECTOR FLARE LESS TUBE END/MALE PIPE END STAINLESS STEEL PARKER PART NO. 4-4-FBU-SS
83	6 o.d. x	ELBOW 90° LONG MALE FLARE LESS TUBE END/LONG MALE PIPE END STAINLESS STEEL PARKER PART NO. 4-4-CCBU-SS
84	6 o.d. x 6 o.d.	UNION ELBOW 90° FLARE LESS TUBE ENDS STAINLESS STEEL PARKER PART NO. 4-EBU-SS.
85	6 o.d.	TUBING STAINLESS STEEL 316 COLD DRAWN ANNEALED SEAMLESS 16 GAUGE (1.651 mm WALL)
		TO ASTM A-269

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR EQUIPMENT SCHEMATICS SEE DRAWING P-AVA-02B.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	MB

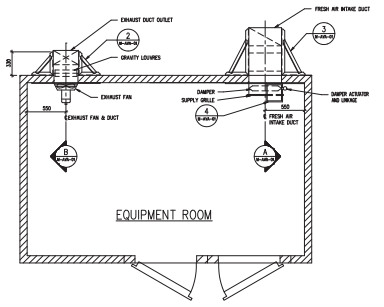
REVISIONS

DESIGN: RYAN
DRAWN: RJ
APPROVED:

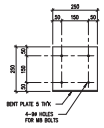
PROJECT TITLE
DISPENSER BUILDING FOR JET A-1 / LSDL FUEL AT TANK FARM

DRAWING TITLE
BILL OF MATERIALS

SCALE: N.T.S.
DATE: 04/02/20
DRAWING No. P-AVA-03A
REV. 1



DETAIL 1 (M-AVA-01) 1 : 25



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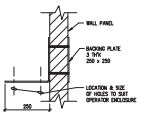
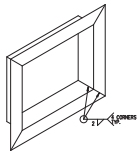
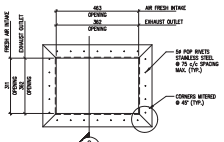


ELEVATION

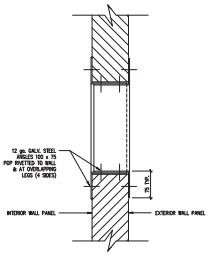
DETAIL 4 (M-AVA-01) 1 : 10 BRACKET FOR DAMPER OPERATOR



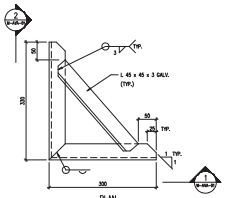
SPLIT FRAME ISOMETRIC AT WALL
(TYPICAL AT INTAKE & EXHAUST DUCTS)



DETAIL 5 (M-AVA-01) 1 : 10 DUCT OPENINGS THROUGH WALL



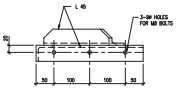
SECTION C (M-AVA-01)



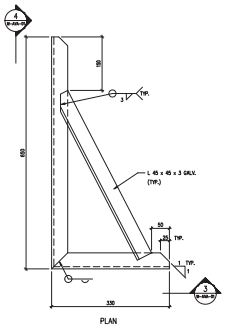
DETAIL 2 (M-AVA-01) 1 : 5 BRACKET TYPE "A"

(RIGHT HAND SHOWN – ONE EACH HAND REQ'D)

VIEW 2 (M-AVA-01)

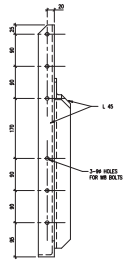


VIEW 1 (M-AVA-01)

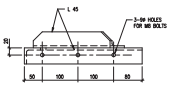


DETAIL 3 (M-AVA-01) 1 : 5 BRACKET TYPE "B"

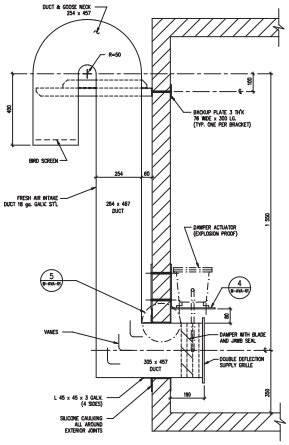
(RIGHT HAND SHOWN – ONE EACH HAND REQ'D)



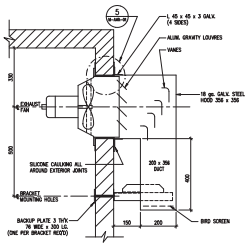
VIEW 4 (M-AVA-01)



VIEW 3 (M-AVA-01)



SECTION A (M-AVA-01)



SECTION B (M-AVA-01)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. FOR PARTICULARS ON DUCTWORK, EXHAUST FAN, DAMPER OPERATOR, DAMPER, REDIRECTOR, GRILLE VANES & BIRD SCREENS REFER TO SPECIFICATIONS, DIV. 13, SECTION 13230.
3. FOR OTHER DETAILS SEE SUBSEQUENT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13230.

No	DATE	DESCRIPTION	CHK'D
1	04/10/07	ISSUED	RBE

REVISIONS

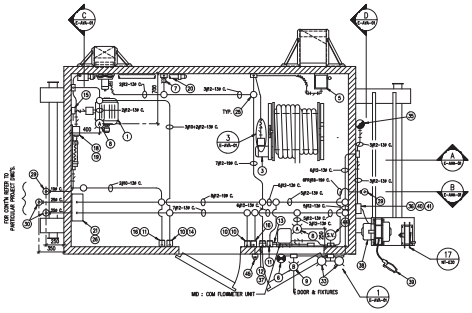
DESIGN: RMB
DRAWN: CAD / SL
APPROVED:

PROJECT TITLE: DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL FUEL

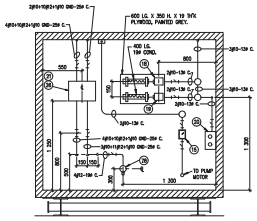
DRAWING TITLE: VENTILATION PLAN, SECTIONS & DETAILS

SCALE: 1 : 10 OR AS SHOWN | DATE: 04/10/20

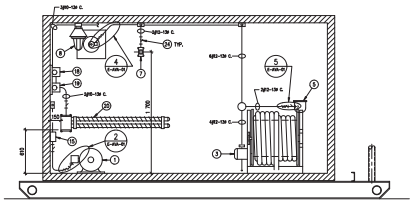
DRAWING No: M-AVA-01 | REV: 1



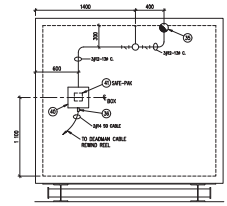
PLAN VIEW



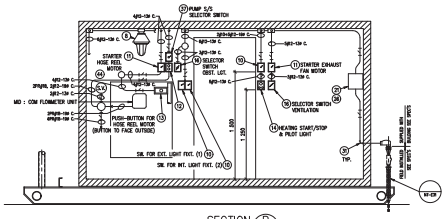
SECTION C



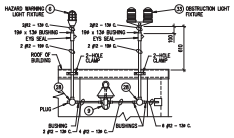
SECTION A



SECTION D

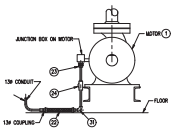


SECTION B

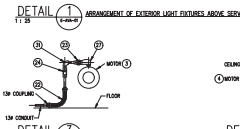


N.B.: FOR LOCATION OF EQUIPMENT SEE DWG. A-AVA-01

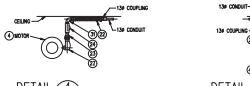
DETAIL 1 (E-AVA-01) 1 : 25 ARRANGEMENT OF EXTERIOR LIGHT FIXTURES ABOVE SERVICE DOOR



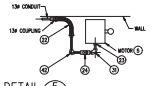
DETAIL 2 (E-AVA-01) 1 : 12.5 CONNECTION AT TURBO A-1 PUMP MOTOR



DETAIL 3 (E-AVA-01) 1 : 12.5 CONNECTION AT HOSE REEL MOTOR



DETAIL 4 (E-AVA-01) 1 : 12.5 CONNECTION AT FAN MOTOR



DETAIL 5 (E-AVA-01) 1 : 12.5 CONNECTION AT DAMPER MOTOR

LIST OF JET A-1 BUILDING ELECTRICAL EQUIPMENT

NO.	QTY.	DESCRIPTION
1	1	3 HP. PUMP MOTOR, 230 V., 1 ph., 60 Hz. (JET A-1) SEE SPEC'S.
2	–	NOT USED
3	1	1/2 HP. HOSE REMIND REEL MOTOR, 115 V. 1 ph., 60 Hz. SEE SPEC'S.
4	1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S.
5	1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.
6	1	HAZARD WARNING LIGHT FIXTURE, SEE SPEC'S.
7	1	HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.
8	2	LIGHT FIXTURE TYPE "A", SEE SPEC'S.
9	1	LIGHT FIXTURE TYPE "B", SEE SPEC'S.
10	3	TUMBLER SWITCHES, SEE SPEC'S.
11	2	MANUAL MOTOR STARTER SWITCH, 2 POLES, 1 HP, RATING @ 115/230 VAC. 1 ph. c/w HEATER, ALLEN BRADLEY CAT.# 600-T235-12 (THWARTED) SEE SPEC'S. & NOTE #8
12	1	MAINTAINED CONTACT START/STOP, PUSH BUTTON STATION FOR JET A-1 PUMP, ALLEN-BRADLEY CAT.# 800H-2HMM2.
13	1	ONE BUTTON PUSH-BUTTON STATION FORWARD ON HOLD AND STOP STOP ON RELEASE, D.P.D.T. ALLEN-BRADLEY CAT.# 800H-0PA2
14	1	MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE. TYPE ALLEN-BRADLEY CAT.# 800H-2HA2R2R7
15	1	DISCONNECT THUMBLER SWITCHES, EDMAC TYPE 7 CO, 2 POLES, RATING 3 HP. @ 240 VAC. APPLETON CAT.# ECD-175 c/w ECSR-2MS
16	2	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-H2HA7
17	1	NOT USED
18	1	THERMOSTAT, NON-ADJUSTABLE FROM EXTERIOR TYPE CHROMALOX CAT.# AD-3464-EP-2 SET AT 10° C., SEE SPEC'S.
19	1	THERMOSTAT, (LOW TEMPERATURE), SET AT -10° C., SEE SPEC'S.
20	1	HEATER, SEE SPEC'S.
21	–	TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STRUT "S" MOUNTED IN JUNCK (20 # 1492-UA & 10 # 1492-UH3)
22	4	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# ECH112 (305 Lg.)
23	AS REQ'D.	LUBOX, TYPE CROUSE-HINDS "LMY" SERIES, SIZE TO SUIT.
24	AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT.
25	AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "DUA" SERIES, SIZE TO SUIT.
26	1	JUNCTION BOX, CROUSE-HINDS CAT.# FJB 654-SA
27	3	JUNCTION BOX, CROUSE-HINDS CAT.# GUA6N
28	2	JUNCTION BOX, TYPE CROUSE-HINDS "DAR" CAT.# GUF126
29	1	JUNCTION BOX, CROUSE-HINDS CAT.# GUAB-26
30	2	JUNCTION BOX, CROUSE-HINDS CAT.# GEAB-26
31	AS REQ'D.	ELBOW RYC, TYPE CROUSE-HINDS "EL" SERIES. SIZE TO SUIT
32	–	NOT USED
33	1	OBTRUCTION LIGHT FIXTURE, SEE SPEC'S.
34	1	JUNCTION BOX, TYPE CROUSE-HINDS "DAR" CAT.# GUF118
35	1	PHOTOELECTRIC CONTROLLER, SEE SPEC'S.
36	1	CABLE ENTRY SEAL, THREADED, HUB SIZE 1/2", THOMAS & BETTS CAT.# 39225
37	1	SELECTOR SWITCH 3-POSITION, c/w ENCLOSURE, TYPE ALLEN-BRADLEY CAT.# 800H-H3HA7 WITH LEGEND PLATE INSCRIPTION "HAND – OFF – AUTO"
38	1	SPRING REMIND REEL FOR DEADMAN SWITCH, SEE SPEC'S.
39	1	DEADMAN SWITCH, SEE SPEC'S.
40	1	TWO GANG CAST DEVICE BOX, THREADED FOR RIGID CONDUIT & MOUNTING LUGS. CROUSE-HINDS CAT.# FDC 12 (DEEP ENCLOSURE), c/w 2 GANG BLANK COVER CROUSE-HINDS CAT.# SFD202 (FERALOY) & GASKET CAT.# GASK. 43H
41	1	GEMS SOLID STATE, SAFE-PAK APPROVED FOR CLASS I, GROUP D, 120 VAC. MAX. RATING 5 A. (LOAD)
42	AS REQ'D.	ELBOW RYC, TYPE CROUSE-HINDS "LBR" SERIES. SIZE TO SUIT
43	3	SOLENOID VALVE, TWO-WAY, NORMALLY CLOSED, 120 V., 60 CY., SUPPLIED & INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR (SEE NOTE #8)
45	1	MOMENTARY MUSHROOM HEAD EMERGENCY STOP BUTTON, ALLEN BRADLEY CAT.# 800H-SPR2D MOUNTED IN A ALLEN-BRADLEY CAT.#800H-HW2TM2 GANG BOX WITH A ALLEN-BRADLEY CAT.# 800H-NP3D COVER.

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
3. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE.
5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC.... SHALL BE IDENTIFIED WITH LAMICOID LABELS FASTENED TO BOXES
6. FOR WIRING DIAGRAMS SEE DWG. E-AVA-02
7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING SHALL BE 120/240V, 1 PHASE, 60 CY.
8. OVERLOAD HEATER ELEMENT NOT REQUIRED IN MANUAL STARTER ITEM 11 FOR FAN MOTOR.
9. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
10. FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.

No.	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	RBE

REVISIONS

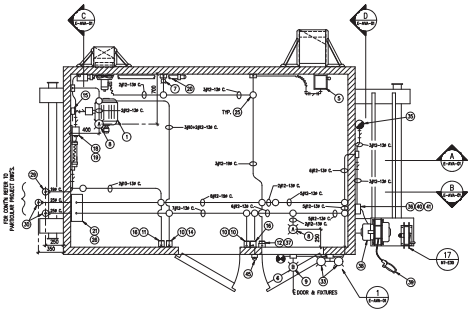
DESIGN: RWE
DRAWN: CAD / BL
APPROVED:

PROJECT TITLE: DISPENSER BUILDING FOR JET A-1 AVIATION FUEL AT AIRPORT

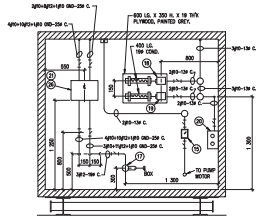
DRAWING TITLE: ELECTRICAL PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN | DATE: 04/02/20

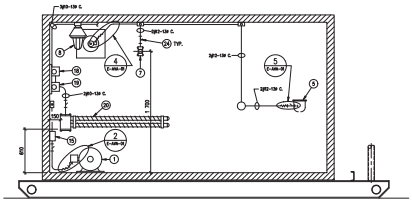
DRAWING No. E-AVA-01 | REV. 1



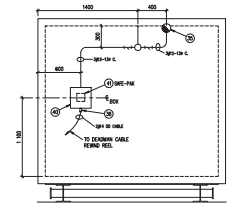
PLAN VIEW



SECTION C



SECTION A



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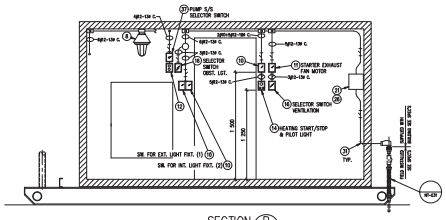

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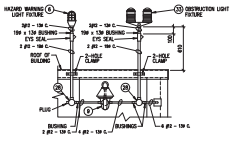
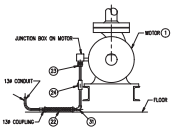
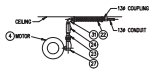


N.B.: FOR LOCATION OF EQUIPMENT SEE DWG. A-AVA-01

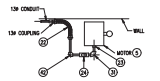
DETAIL 1 (E-AVA-01) 1 : 25 ARRANGEMENT OF EXTERIOR LIGHT FIXTURES ABOVE SERVICE DOOR



DETAIL 2 (E-AVA-01) 1 : 12.5 CONNECTION AT TURBO A-1 PUMP MOTOR



DETAIL 4 (E-AVA-01) 1 : 12.5 CONNECTION AT FAN MOTOR



DETAIL 5 (E-AVA-01) 1 : 12.5 CONNECTION AT DAMPER MOTOR

LIST OF JET A-1 BUILDING ELECTRICAL EQUIPMENT

NO.	QTY.	DESCRIPTION
1	1	3 HP. PUMP MOTOR, 220 V., 1 ph., 60 Hz. (JET A-1) SEE SPEC'S.
2	–	NOT USED
3	–	NOT USED
4	1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S.
5	1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.
6	1	HAZARD WARNING LIGHT FIXTURE, SEE SPEC'S.
7	1	HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.
8	2	LIGHT FIXTURE TYPE "A", SEE SPEC'S.
9	1	LIGHT FIXTURE TYPE "B", SEE SPEC'S.
10	3	TUMBLER SWITCHES, SEE SPEC'S.
11	1	MANUAL MOTOR STARTER SWITCH, 3 POLES, 1 HP. RATING @ 115/230 VAC. 1 ph. c/w HEATER, ALLEN BRADLEY CAT.# 600-BOD-12 (THRUFEED) SEE SPEC'S. & NOTE #8
12	1	MAINTAINED CONTACT START/STOP, PUSH BUTTON STATION FOR JET A-1 PUMP, ALLEN-BRADLEY CAT.# 800H-2HA47.
13	–	NOT USED
14	1	MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE, TYPE ALLEN-BRADLEY CAT.# 800H-2HA24R7
15	1	DISCONNECT TRAMBLER SWITCHES, EBMRC TYPE 7 CO, 2 POLES, RATING 3 HP. @ 240 VAC. APPLETON CAT.# ECS-175 c/w ECSK-365.
16	2	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-R2A47
17	1	SENSOR & CROUSE-HINDS CUAT26 MOUNTING BOX, SEE SPEC'S.
18	1	THERMOSTAT, NON-ADJUSTABLE FROM EXTERIOR TYPE CHROMALOX CAT.# AT-2464-2F-2 SET AT 10° C., SEE SPEC'S.
19	1	THERMOSTAT, (LOW TEMPERATURE), SET AT -18° C., SEE SPEC'S.
20	1	HEATER, SEE SPEC'S.
21	–	TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STTB2 "B" MOUNTED W/ JUMPER (16 # 1492-JX & 10 # 1492-EH)
22	4	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# EC3112 (305 Lg.)
23	AS REQ'D.	UNION, TYPE CROUSE-HINDS "UNY" SERIES, SIZE TO SUIT.
24	AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT.
25	AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "DAX" SERIES, SIZE TO SUIT.
26	1	JUNCTION BOX, CROUSE-HINDS CAT.# LB 664-SA
27	3	JUNCTION BOX, CROUSE-HINDS CAT.# GUA64
28	2	JUNCTION BOX, TYPE CROUSE-HINDS "DAR" CAT.# GUF726
29	1	JUNCTION BOX, CROUSE-HINDS CAT.# GUJ6-26
30	2	JUNCTION BOX, CROUSE-HINDS CAT.# GUJ6-36
31	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "EL" SERIES, SIZE TO SUIT
32	–	NOT USED
33	1	OBSTRUCTION LIGHT FIXTURE, SEE SPEC'S.
34	1	JUNCTION BOX, TYPE CROUSE-HINDS "DAR" CAT.# GUF726
35	1	PHOTOELECTRIC CONTROLLER, SEE SPEC'S.
36	1	CABLE ENTRY SEAL, THREADED, HUB SIZE 1/2", THOMAS & BETTS CAT.# 26035
37	1	SELECTOR SWITCH 3-POSITION, c/w ENCLOSURE, TYPE ALLEN-BRADLEY CAT.# 800H-R3H47 WITH LEGEND PLATE INSCRIPTION "HAND – OFF – AUTO"
38	1	SPRING REWIND REEL FOR DEADMAN SWITCH, SEE SPEC'S.
39	1	DEADMAN SWITCH, SEE SPEC'S.
40	1	TWO GANG CAST DEVICE BOX, THREADED FOR RIGID CONDUIT & MOUNTING LUGS. CROUSE-HINDS CAT.# FDC 32 (DEEP ENCLOSURE), c/w 2 GANG BLANK COVER CROUSE-HINDS CAT.# DV0030 (STAINLESS) & GASKET CAT.# GA30 434
41	1	SEMI SOLID STATE SAFE-PAK APPROVED FOR CLASS I, GROUP D, 120 VAC. MAX. RATING 3 A. (SAND)
42	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "LBY" SERIES, SIZE TO SUIT
43	1	JUMBO MUSHROOM HEAD EMERGENCY STOP BUTTON, ALLEN BRADLEY CAT.# 800H-SPM22 MOUNTED IN A ALLEN- BRADLEY CAT#800H-3H3CTMD GANG BOX WITH A ALLEN-BRADLEY CAT# 800H-NP3X COVER.

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
3. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE.
5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC.... SHALL BE IDENTIFIED WITH LAMICOID LABELS FASTENED TO BOXES
6. FOR WIRING DIAGRAMS SEE DWG. E-AVA-02
7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING SHALL BE 120/240V, 1 PHASE, 60 CY.
8. OVERLOAD HEATER ELEMENT NOT REQUIRED IN MANUAL STARTER ITEM 11 FOR FAN MOTOR.
9. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED BEFORE SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
10. FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.

No.	DATE	DESCRIPTION	CHK'D
1	04/10/01	ISSUED	RBE

REVISIONS

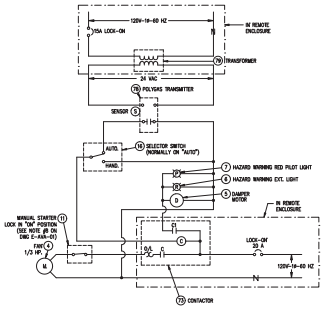
DESIGN: RMB
DRAWN: CAD / SL
APPROVED:

PROJECT TITLE: DISPENSER BUILDING FOR JET A-1 / LSDL FUEL AT TANK FARM

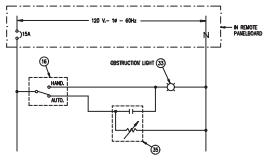
DRAWING TITLE: ELECTRICAL PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN | DATE: 04/02/01

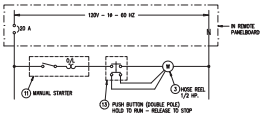
DRAWING No.: E-AVA-01A | REV.: 1



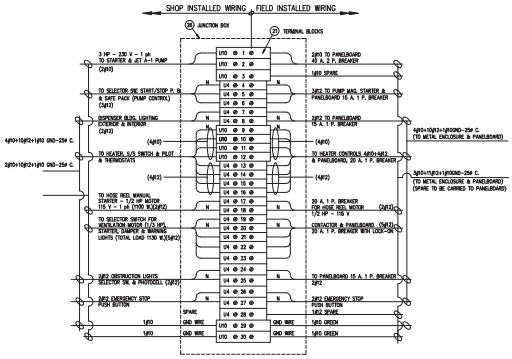
CONTROL WIRING DIAGRAM FOR
POLYGAS DETECTION & VENTILATION SYSTEMS



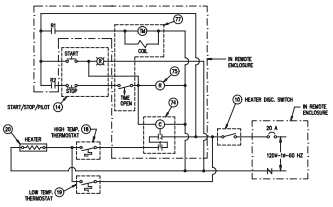
SCHEMATIC WIRING DIAGRAM
OBSTRUCTION LIGHTS



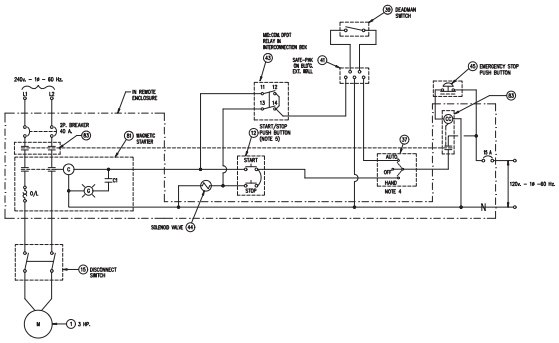
SCHEMATIC WIRING DIAGRAM
ELECTRICAL RE–WIND HOSE REEL



TERMINAL BLOCKS AT MAIN JUNCTION BOX
AT ENTRANCE TO BUILDING



CONTROL WIRING DIAGRAM FOR
HEATING IN DISPENSER BUILDING



WIRING DIAGRAM FOR JET A–1 DISPENSING SYSTEM AT AIRPORT

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION AND QUANTITY OF CIRCLED NUMBERS SHOWN THUS: (X) SEE LISTS OF BUILDING ELECTRICAL EQUIPEMENT ON DWG'S. E–AVA–01 & E–SB–02
2. FOR OTHER NOTES REFER TO DWG. E–AVA–01
3. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. ANY CHANGES MUST BE MADE WITH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
4. THE HAND–OFF–AUTO SWITCH WILL SWITCH BETWEEN CONTROL BY THE STOP/START BUTTONS AND THE MELCON COMPUTER. THE DEADMAN SWITCH MUST BE USED WHEN OPERATING IN DURING AIRCRAFT REFUELING. HAND OPERATION (NOT USING THE DEADMAN SWITCH) WILL BE USED DURING TANK TRUCK UNLOADING AND FOR RECIRCULATION THROUGH THE FIBER FILTER. THE SIGNAL FROM THE MELCON TO THE CONTROL CIRCUIT WILL BE THROUGH THE OPTIFIER CABLE GOING TO THE TRUCK CONNECTOR BOX.
5. BOTH SUSTAINED CONTACTS ARE CLOSED WHEN THE START BUTTON IS PUSHED AND BOTH ARE OPEN WHEN THE STOP BUTTON IS PUSHED.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	RBE

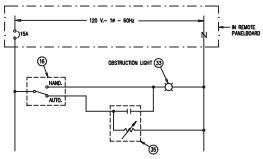
REVISIONS

DESIGN: RYAN
DRAWN: RJ
APPROVED:

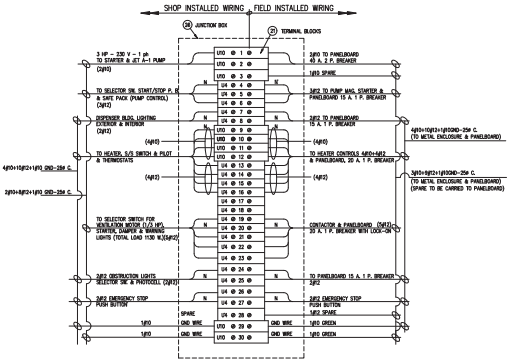
PROJECT TITLE
DISPENSER BUILDING FOR
JET A–1 AVIATION FUEL
AT AIRPORT

DRAWING TITLE
ELECTRICAL DIAGRAMS &
TERMINAL BLOCKS

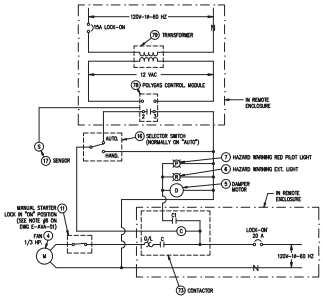
SCALE: 1 : 1
DATE: 04/02/20
DRAWING No: E–AVA–02
REV: 1



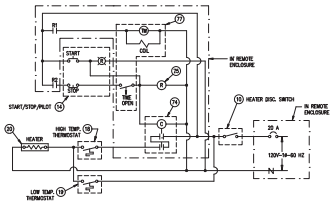
SCHEMATIC WIRING DIAGRAM
OBSTRUCTION LIGHTS



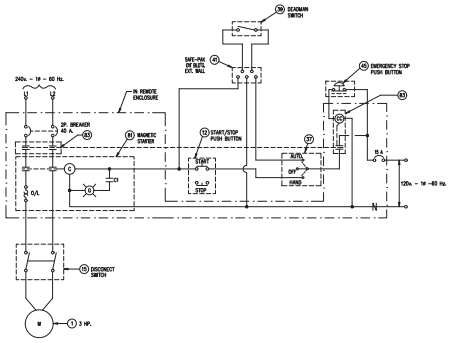
TERMINAL BLOCKS AT MAIN JUNCTION BOX
AT ENTRANCE TO BUILDING



CONTROL WIRING DIAGRAM FOR
POLYGAS DETECTION & VENTILATION SYSTEMS



CONTROL WIRING DIAGRAM FOR
HEATING IN DISPENSER BUILDING



WIRING DIAGRAM FOR JET A-1 DISPENSING SYSTEM AT AIRPORT

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION AND QUANTITY OF CIRCLED NUMBERS SHOWN THUS: (20) SEE LISTS OF BUILDING ELECTRICAL EQUIPEMENT ON DWG'S. E-AVA-01 & E-SB-02
2. FOR OTHER NOTES REFER TO DWG. E-AVA-01
3. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.

No	DATE	DESCRIPTION	CHK'D
1	04/04/07	UPDATED	RBE

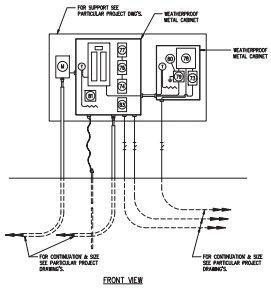
REVISIONS

DESIGN: RYAN
DRAWN: CAD / SL
APPROVED:

PROJECT TITLE
DISPENSER BUILDING FOR
JET A-1 / LSDL FUEL
AT TANK FARM

DRAWING TITLE
ELECTRICAL DIAGRAMS &
TERMINAL BLOCKS

SCALE: 1 : 1
DATE: 04/02/20
DRAWING No. E-AVA-02A
REV. 1



FRONT VIEW

ARRANGEMENT OF EQUIPMENT IN METAL CABINETS

(SEE ALSO PARTICULAR PROJECT DRAWINGS FOR PARTICULARS)

2 P. MAIN BREAKER (AMPERAGE AS PER PARTICULAR PROJECT DWG'S.)

WATTS	DESCRIPTION	CCT	AMP	AMP	CCT	DESCRIPTION	WATTS	
138	BLUFS. OBSTRUCTION LIGHTS	1	15 A	15 A	2	SPARE		
459	BLUFS LIGHTING	3	15 A	15 A	4	BLUFS FAN 1/3 H.P.,BAMPER & WARNING LGT.	1130	LOCK-ON
3000	BLUFS TURBO A-1 PUMP 3 H.P.	5	20 A	20 A	6	BLUFS HEATING & CONTROLS	1500	
	• • •	7		20 A	8	POLYGAS CONTROL MODULE & TRANSF.	100	LOCK-ON
50	CONTROLS TURBO A-1 PUMP	9	20 A	20 A	10	SPARE		
		11			12			
		13			14			
		15			16			

RESERVED SEE PARTICULAR PROJECT DRAWINGS

RESERVED SEE PARTICULAR PROJECT DRAWINGS

A B N

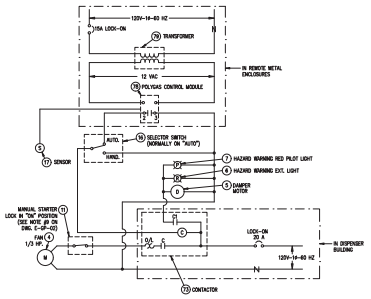
PANEL "B" AIRPORT

TOTAL LOAD : (SEE PARTICULAR PROJECT DRAWINGS)

LIST OF ITEMS FOR REMOTE ELECTRICAL EQUIPMENT

NO.	QTY.	DESCRIPTION
70	–	NOT REQUIRED AT AIRPORT LOCATIONS
71	–	• • • • •
72	–	• • • • •
73	1	AC. CONTACTOR FOR REMOTE VENTILATION SYSTEM c/w OVERLOAD HEATER 120 V., 1 ph., 2 POLES, SIZE 0, ELECTRICALLY HELD TYPE ALLEN-BRADLEY CAT.# 500-AA0920 c/w ONE N.O. AUXILIARY CONTACT
74	1	AC. CONTACTOR FOR REMOTE HEATER, 120 V., 1 ph., 2 POLES, 30 A., ELECTRICALLY HELD TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT.# 500-AA0910
75	1	CONTROL RELAY FOR REMOTE HEATER, ELECTRICALLY HELD AC., c/w 4 CONTACTS N.O. TYPE ALLEN-BRADLEY CAT.# 700-PA10-A1 c/w EBMAC TYPE 1 ENCLOSURE CAT.# 700-A375
76	–	NOT REQUIRED AT AIRPORT LOCATIONS
77	1	AUTOMATIC RESET TIMER FOR REMOTE HEATER, INTERVAL USE TYPE 500 SERIES, 120 VAC. RANGE 0. TO 5 HRS., 1 NMC GRADUATION PARAGON ELECTRIC Co. MODEL # 501-143-00 c/w MOISTURE AND DUST RESISTANT CASE MODEL 500 AND EDP No. 41150 ENCLOSURE. TIMER SET AT 1 HR.
78	1	POLYGAS SURVEILLANCE & DETECTION SYSTEM WITH CONTROL MODULE, c/w CONNECTION BLOCKS, RELAY & DUSTPROOF CABINET, SEE SPECS.
79	1	CONTROL TRANSFORMER 120 V. / 12 VAC., SUPPLIED WITH ITEM 78
80	1	METAL ENCLOSURE, 150 Lp. x 150 H. x 100 D., CSE STANDARD TYPE "D"
81	1	FULL VOLTAGE MAGNETIC STARTER FOR REMOTE PUMP MOTOR, SIZE 1, 403 V. MAX. RATING, 1 ph., 60 Hz WITH 2 POLES WITH ONE TYPE 16, OVERLOAD RELAY HEATER ELEMENT, CSA. AT 120 V., c/w ONE N.O. AUXILIARY CONTACT. TYPE 1 GENERAL PURPOSE ENCLOSURE. ALLEN-BRADLEY CAT.# 509-BAA0 WITH ACCESSORIES.
83	1	ALLEN-BRADLEY BULLETIN 500 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, 10" AUXILIARY CONTACT. TYPE 1 GENERAL ENCLOSURE. CAT#500-AA4830

* – EQUIPMENT TO BE INSTALLED INSIDE WEATHERPROOF METAL ENCLOSURE OUTSIDE THE HAZARDOUS AREA LIMITS.



CONTROL WIRING DIAGRAM FOR
POLYGAS DETECTION & VENTILATION SYSTEMS

THIS SHEET TO BE USED AT LOCATIONS
WHERE NO SHELTER BUILDING IS PROVIDED

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR NOTES REFER TO DWG. E-AVA-01
2. THESE DRAWINGS HAVE BEEN DESIGNED BASED ON THE DIVISION' METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.

15.FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.

No.	DATE	DESCRIPTION	CHK'D
1	94/04/07	UPDATED	RBE

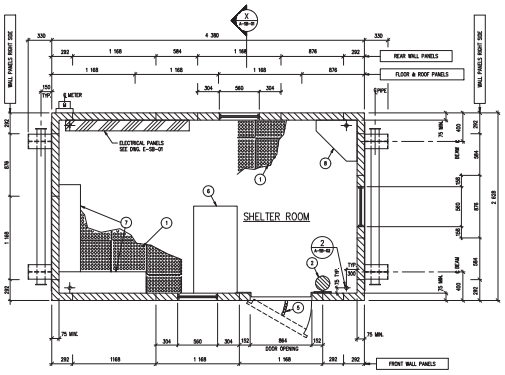
REVISIONS

DESIGN: RYAN
DRAWN: R.J.
APPROVED:

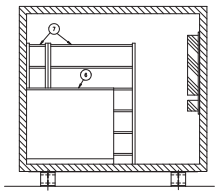
PROJECT TITLE
DISPENSER BUILDING FOR
JET A-1 AVIATION FUEL
AT AIRPORT AND
JET A-1 / LSDL FUEL

DRAWING TITLE
REMOTE ELECTRICAL
EQUIPMENT FOR
DISPENSER AT AIRPORT

SCALE: 1 : 25 OR AS SHOWN
DATE: 94/02/18
DRAWING No.: E-AVA-03
REV.: 1



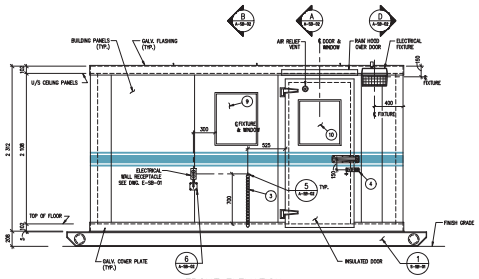
PLAN
DETAIL 1 A-SB-01



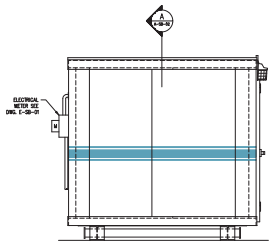
SECTION X A-SB-01

LEGEND:

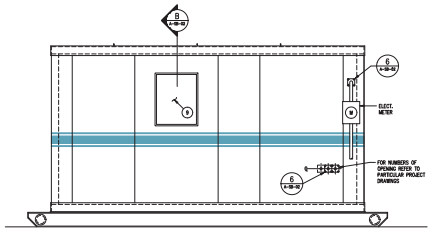
1 - NON-SKID FLOOR SURFACING SHEETS, SEE SPEC'S
2 - FIRE EXTINGUISHER c/w BRACKET MOUNTED 100mm ABOVE FLOOR, SEE SPEC'S
3 - CHAIN c/w HOOKS AT EXTERIOR DOOR, SEE SPEC'S
4 - HASP, SEE SPEC'S
5 - HEAVY DUTY SPRING BUMPER CHAIN ON DOOR, SEE SPEC'S
6 - DESK, STAND-UP, SEE SPEC'S AND DWG A-SB-03
7 - METAL SHELVING (2 SECTIONS), SEE SPEC'S AND DWG A-SB-03
8 - METAL SHELVE FOR TV OR RADIO SEE DWG A-SB-03
9 - DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME, SEE SPEC'S.
10 - DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME, SEE SPEC'S.



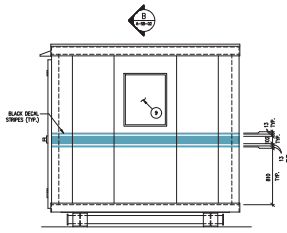
FRONT ELEVATION



LEFT SIDE ELEVATION



REAR ELEVATION



RIGHT SIDE ELEVATION

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
3. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.
4. END WINDOW TO FACE DISPENSING AREA. MAY REQUIRE MIRROR IMAGE BUILDING LAYOUT.
5. WALL, ROOF AND FLOOR PANELS MAY BE 75mm THICK MINIMUM PROVIDED INSULATION IS ADEQUATE.

No	DATE	DESCRIPTION	CHK'D
1	04/04/09	UPDATED	MB

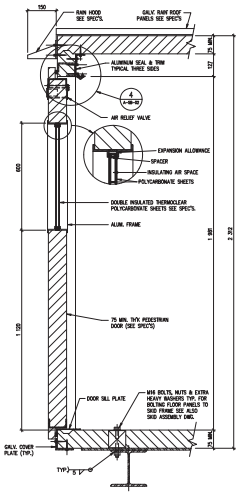
REVISIONS

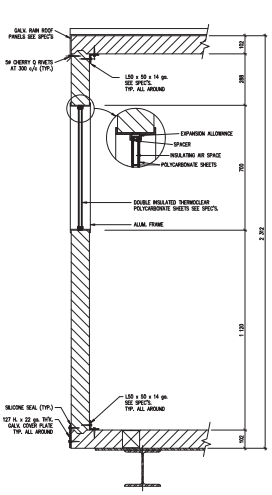
DESIGN: EDZ
DRAWN: RJ
APPROVED:

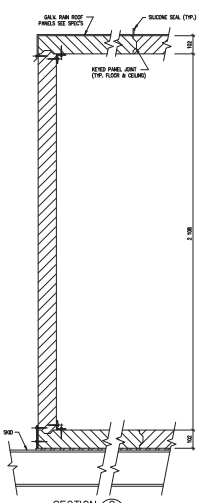
PROJECT TITLE
OPERATOR'S SHELTER BUILDING

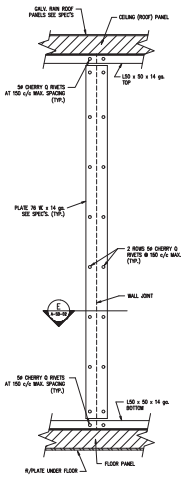
DRAWING TITLE
FLOOR PLAN & ELEVATIONS

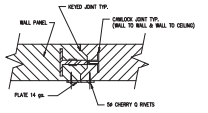
SCALE: 1 : 25
DATE: 04/04/09
DRAWING No. A-SB-01
REV. 1

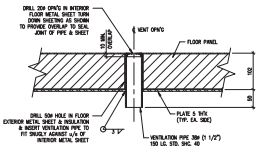


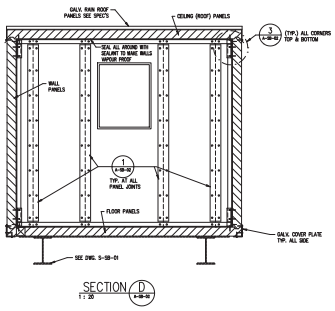


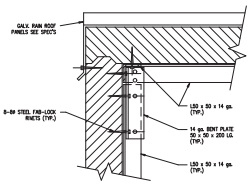


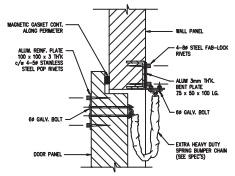


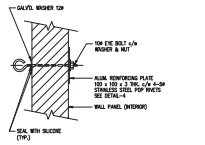


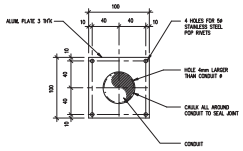












Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
3. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.
4. END WINDOW TO FACE DISPENSING AREA. MAY REQUIRE MIRROR IMAGE BUILDING LAYOUT.
5. WALL, ROOF AND FLOOR PANELS MAY BE 75mm THICK MINIMUM PROVIDED INSULATION IS ADEQUATE.
6. DEPENDING ON BUILDING FABRICATION THE REINFORCING STRIPS MAY NOT BE NECESSARY.

No	DATE	DESCRIPTION	CHK'D
1	04/05/09	UPDATED	MB

REVISIONS

DESIGN: EDZ
DRAWN: RJ
APPROVED:

PROJECT TITLE
OPERATOR'S SHELTER BUILDING

DRAWING TITLE
SECTIONS & DETAILS

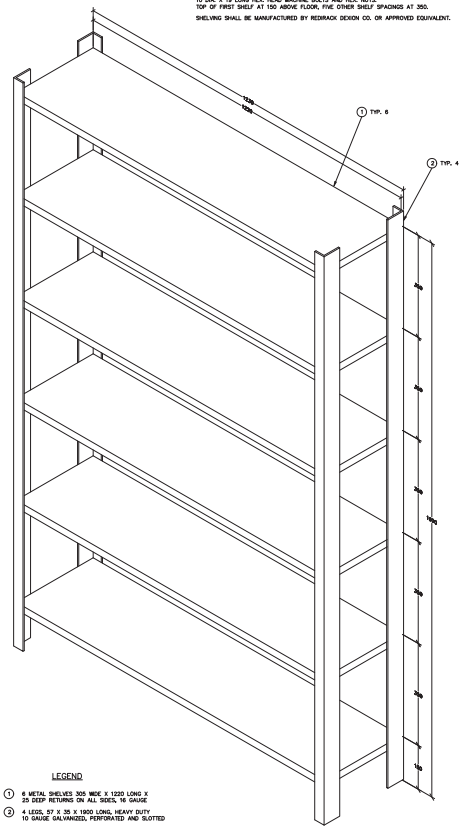
SCALE: 1 : 10 OR AS SHOWN
DATE: 04/02/98
DRAWING No. A-SB-02
REV. 1

FIGURE 1: METAL SHELVING

ASSEMBLY

SHELVES TO BE BOLTED TO LEGS AT EACH CORNER WITH
10 DIA. X 19 LONG HEX. HEAD MACHINE BOLTS AND HEX. NUTS.
TOP OF FIRST SHELF AT 150 ABOVE FLOOR, FIVE OTHER SHELF SPACINGS AT 350.

SHELVING SHALL BE MANUFACTURED BY REDIRACK DEXION CO. OR APPROVED EQUIVALENT.

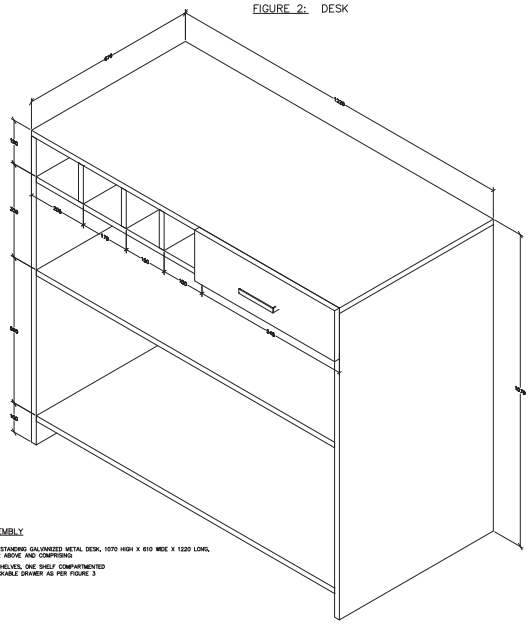


LEGEND

① 6 METAL SHELVES 305 WIDE X 1220 LONG X 25 DEEP RETURNS ON ALL SIDES, 16 GAUGE

② 4 LEGS, 57 X 35 X 1900 LONG, HEAVY DUTY 10 GAUGE GALVANIZED, PERFORATED AND SLOTTED

FIGURE 2: DESK



ASSEMBLY

PROVIDE A FREE STANDING GALVANIZED METAL DESK, 1070 HIGH X 610 WIDE X 1220 LONG, AS PER FIGURE 2 ABOVE AND COMPRISING

- THREE SHELVES, ONE SHELF COMPARTMENTED
- ONE LOCKABLE DRAWER AS PER FIGURE 3

FIGURE 3: DRAWER

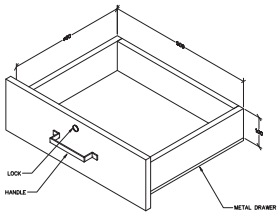
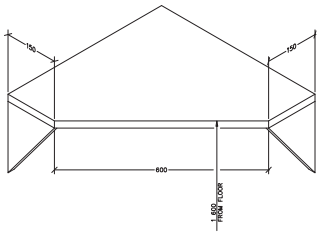


FIGURE 4: SHELVE



Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. SEE SPECIFICATIONS SECTION 13229 FOR ADDITIONAL DETAILS.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

No	DATE	DESCRIPTION	CHK'D
1	06/06/24	UPDATED	RB

REVISIONS

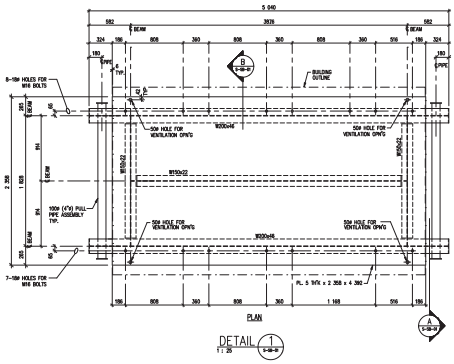
DESIGN: ASBJ
DRAWN: BJ
APPROVED:

PROJECT TITLE: OPERATOR'S SHELTER BUILDING

DRAWING TITLE: DESK & SHELVING DETAILS

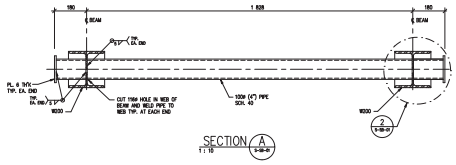
SCALE: 1 : 5 OR AS SHOWN
DATE: 08/03/22

DRAWING No. A-SB-03
REV. 1

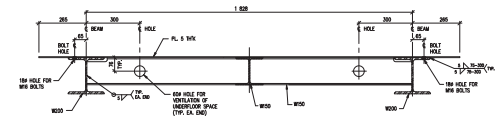


PLAN

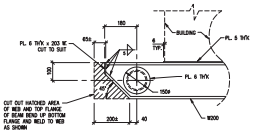
DETAIL 1
1 : 25
S-SB-01



SECTION A
1 : 10
S-SB-01



SECTION B
1 : 10
S-SB-01



DETAIL 2
1 : 10
S-SB-01

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. WELDING AT PLATES FLUSH TO U/S OF FLOOR PANELS SHALL BE GROUND SMOOTH TO PERMIT PROPER BEARING OF PANELS TO PLATES.
3. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
4. ALL BOLTING SHALL BE WITH MACHINE BOLTS TO ASTM. A325 GALVANIZED HEX. HEADS AND NUTS. ALL SCREWS SHALL BE METAL SCREWS GALVANIZED, SIZES AS SHOWN LENGTHS AS REQUIRED.
5. NUMBER AND SPACINGS OF PANEL MOUNTING HOLES COULD VARY TO SUIT SIZE OF FLOOR PANELS. CONTRACTOR TO VERIFY WITH SHOP DRAWINGS OF PANEL MANUFACTURER FOR FINAL PANEL SIZES PRIOR TO FABRICATION OF SKID FRAME.
6. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.

No	DATE	DESCRIPTION	CHK'D
1	04/10/09	UPDATED	RBE

REVISIONS

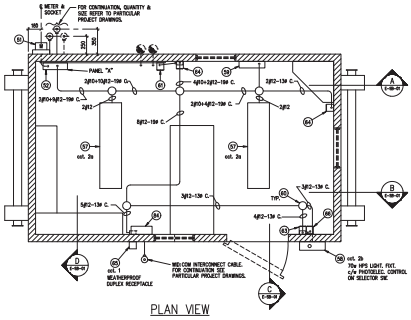
DESIGN: EDZ
DRAWN: RJ
APPROVED:

PROJECT TITLE
OPERATOR'S SHELTER BUILDING

DRAWING TITLE
SKID ASSEMBLY PLAN, SECTION & DETAILS

SCALE: 1 : 25 OR AS SHOWN
DATE: 04/02/98

DRAWING No. S-SB-01
REV. 1



PLAN VIEW

2 P. MAIN BREAKER (AMPERAGE AS PER PARTICULAR PROJECT DWG'S.)

WATTS	DESCRIPTION	CCT	AMP	AMP	CCT	DESCRIPTION	WATTS
200	DUPLEX RECEP. SHELTER BLD'G (EXT.)	1	15 A	15 A	2	LIGHTING INT. & EXT. SHELTER BLD'G	285
4000	HEATER SHELTER BLD'G	3	30 A	15 A	4	DUPLEX RECEP. SHELTER BLD'G (INT. FRONT)	250
	" " "	5		15 A	6	DUPLEX RECEP. SHELTER BLD'G (2)	500
-	SPARE	7	15 A	15 A	8	FUEL REGISTER	
		9			10		
		11			12		
		13			14		
		15			16		
		17			18		
		19			20		
	RESERVED SEE PARTICULAR PROJECT DRAWINGS	21			22	RESERVED SEE PARTICULAR PROJECT DRAWINGS	
		23			24		
		25			26		
		27			28		
		29			30		
		31			32		
		33			34		
		35			36		
		37			38		
		39			40		

A B N

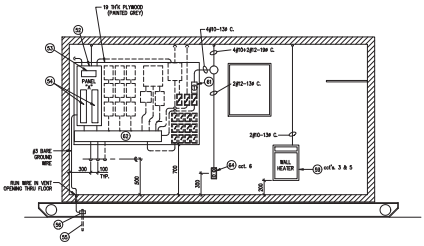
PANEL "A"

120/240v – 1ø – 3W – S/N – 200A MAINS – 40 CCT'S

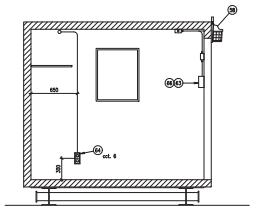
TOTAL LOAD : (SEE PARTICULAR PROJECT DRAWINGS)

LIST OF SHELTER BLDG ELECTRICAL & GROUNDING EQUIPMENT

NO.	QTY.	DESCRIPTION
(C0)	1	ENTRANCE CAP (AT ELECTRICAL POWER SERVICE POLE) SEE PARTICULAR PROJECT DWG'S.
(C1)	1	METER SOCKET OUTDOOR TYPE RING SIZE 300 AMP, 120/240V, 1ph, 3 WIRE, UNDERGROUND SERVICE AND AS PER LOCAL REQUIREMENTS. METER BY UTILITY CO.
(C2)	1	COMBINATION SERVICE ENTRANCE PANELBOARD AS SHOWN, CUTLER-HAMMER TYPE PON-R-LINE, CAT.# PRR142-42BS, SURFACE MOUNT c/w DOOR
(C3)	1	MAIN BREAKER BOLT-ON TYPE, 2 POLE, CUTLER-HAMMER CAT.# EBH2225 FOR ITEM 52 (AMPS. AS PER P.P.D.)
(C4)	AS REQ'D.	DISTRIBUTION BREAKERS, 15,000 A.I.C., BOLT-ON TYPE, AMP. RATING AND No. OF POLES AS PER DISTRIBUTION PANEL DETAILS, CUTLER-HAMMER TYPE BAB FOR ITEM 52
(C5)	1	GROUND ROD. 19ø X 3000 LG. C.L.W. KOPER – ROAD # BW60-K
(C6)	1	BURNDY GROUND CONNECTOR, TYPE GAR
(C7)	2	FLUORESCENT LIGHTING FIXTURE, ANTI-VANDALISM, POLYCARBONATE LENS FALE-SAFE CAT. No FSRC-644-120V c/w 2 x 32 WATT FLUORESCENT LAMPS, SURFACE MOUNTED
(C8)	1	HIGH PRESSURE SODIUM EXTERIOR LIGHTING FIXTURE GREY, WALL PACKETTE, 70 W, 120 V c/w BALLAST, PHOTOELECTRIC CONTROL, POLYCARBONATE COVER AND PROTECTION GRILLE, HOLOPHANE MODEL WP2 WALL PACKETTE c/w 70 W, H.P.S. LAMP
(C9)	1	WALL HEATER 4 KW SEE SPEC'S.
(C0)	AS REQ'D.	CAST JUNCTION BOX, TYPE CROUSE-HINDS "VM" SERIES, SIZE TO SUIT c/w COVER.
(C1)	1	LINE VOLTAGE THERMOSTAT, SET AT 10° C., O. AT 1200 mm ABOVE FLOOR, SEE SPEC'S.
(C2)	1	TROUGH GENERAL PURPOSE 150 H. x 100 D. x 914 Lg., TYPE BEL CAT.# 1373 (NO LUGS)
(C3)	1	LIGHT SWITCH, FS BOX WITH SPECIFICATION GRADE QUIET A.C. SWITCH, SINGLE POLE, BROWN, 15 A., 120 V., SIDE WIRED, HUBBELL CAT. # 1301 AND FS TYPE COVER.
(C4)	2	FS BOX WITH SPECIFICATION GRADE, 125 V., 2 POLES, 3 WIRES, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT. # 5262 AND FS TYPE COVER.
(C5)	1	FS BOX WITH SPECIFICATION GRADE, 125 V., 2 POLES, 3 WIRES, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT.# 5262 AND WEATHERPROOF COVER WITH SPRING DOORS & GASKET, CROUSE-HINDS CAT.# DS250
(C6)	1	SELECTOR SWITCH, 3 POSITIONS, HAND-OFF-AUTO, TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT. # 800S-H3SX.
(C7)	AS REQ'D.	ELBOW TYPE CROUSE-HINDS "LB" SERIES SIZE TO SUIT
(C8)	AS REQ'D.	JUNCTION BOX TYPE CROUSE-HINDS "DUAR" SERIES, SIZE TO SUIT
(C9)	1	DOUBLE CANS FS BOX WITH SPECIFICATION GRADE, QUIET AC SWITCH, SINGLE POLE, BROWN, 15A, 120V, SIDE WIRED, HUBBLE CAT #1201; 125 V., 2 POLE, 3 WIRE, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT. # 5262 AND FS TYPE COVER.
(D1)	1	ALLEN-BRADLEY BULLETIN 600 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, W/ AUXILIARY CONTACT. TYPE 1 GENERAL ENCLOSURE, CAT#600-AA4A00
(D4)	1	WEDCOM 9000 IP INTERCONNECT PANEL
(D5)	1	WEDCOM REGISTER PRINTER



SECTION A



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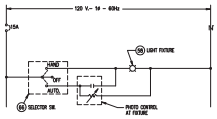
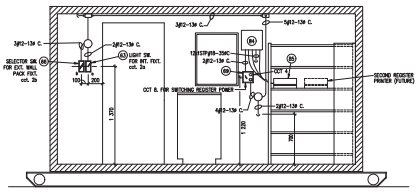
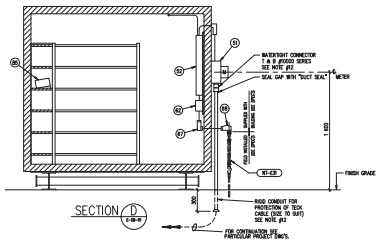


SCHEMATIC CONTROL DIAGRAM
EXTERIOR LIGHTING AT SHELTER BLDG.



SECTION B



SECTION D

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. SHELTER BLD'G TO BE CLASSIFIED ORDINARY LOCATION. ALL SURFACE WIRING TO BE INSTALLED IN EMT OR RIGID CONDUIT. WIRING TO BE RWU90–XLPE, COPPER, 600 V. INSULATION, MIN. SIZE #12 OR AS INDICATED. CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
3. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE.
4. PROVIDE UNIONS, COUPLINGS, PLUGS AND BUSHINGS AS REQUIRED.
5. ALL WIRES SHALL BE IDENTIFIED AT EQUIPMENT AND AT PANEL.
6. ALL SWITCHES, STARTERS, THERMOSTAT, RELAYS, CONTACTORS TIMER, ETC.... SHALL BE IDENTIFIED WITH LAMCOID LABELS FASTENED TO BOXES.
7. FOR LAYOUT OF ELECTRICAL EQUIPMENT AT ENTRANCE REFER TO PARTICULAR PROJECT DRAWINGS. (P.P.D.)
8. BOXES & ACCESSORIES SHALL BE AS PER CROUSE–HINDS MANUFACTURE OR APPROVED EQUIVALENT
9. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.
10. DRAWING DID SHALL BE GROUNDED AT SITE SEPARATELY FROM THE ELECTRICAL NEUTRAL GROUNDING INSTALLATION.
11. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
12. FOR SIZES OF CONDUITS & SIZE, NUMBER & TYPE OF WIRING FOR SERVICE ENTRANCE, REFER TO PARTICULAR PROJECT DRAWINGS & SPECIFICATIONS, DIVISION 13, SECTION 13220.

No.	DATE	DESCRIPTION	CHK'D
1	04/04/08	UPDATED	MBE

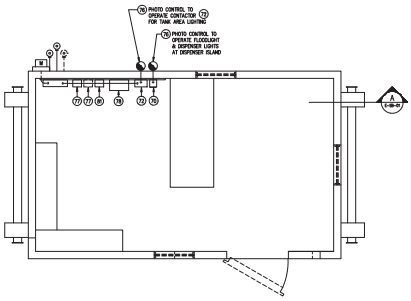
REVISIONS

DESIGN: BYAM
DRAWN: RJ
APPROVED:

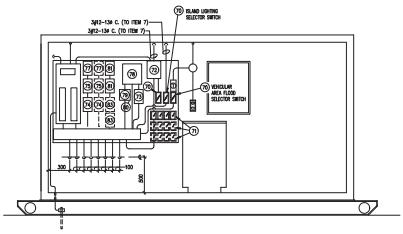
PROJECT TITLE
OPERATOR'S SHELTER BUILDING

DRAWING TITLE
ELECTRICAL PLAN, ELEVATIONS, SCHEMATICS & DETAILS

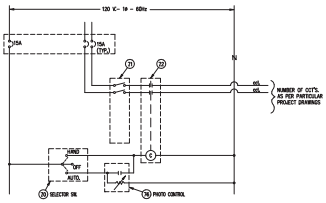
SCALE: 1 : 25 OR AS SHOWN
DATE: 04/02/08
DRAWING No. E–SB–01
REV. 1



PLAN VIEW

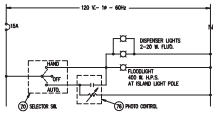


SECTION A



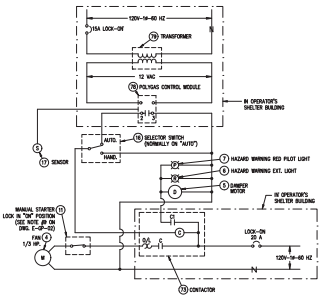
SCHEMATIC CONTROL DIAGRAM
LIGHTING IN TANK AREA

(SEE NOTE #3)



SCHEMATIC CONTROL DIAGRAM
LIGHTING AT DISPENSER ISLAND

(SEE NOTE #3)



CONTROL WIRING DIAGRAM FOR
POLYGAS DETECTION & VENTILATION SYSTEMS

(SEE NOTE #5)

LIST OF ITEMS FOR REMOTE ELECTRICAL EQUIPMENT

	NO.	QTY.	DESCRIPTION
	4	1	1/3 HP. FAN MOTOR, 115 V. 1 PH. 60 Hz., SEE SPEC'S.
	5	1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.
	6	1	HAZARD WARNING LIGHT FIXTURE, SEE SPEC'S.
	7	1	HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.
	12	1	MANUAL STARTER SWITCH, FOR HOSE REEL & EXHAUST SEE SPEC'S. & NOTE #8
	16	1	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-1F2A7
	17	1	SENSOR & CROUSE-HINDS GUARD MOUNTING BOX, SEE SPEC'S.
	18	**	SELECTOR SWITCH, 3 POSITIONS, HAND - OFF - AUTO, TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT. # 800S-2S3S1
	21	**	FOUR-GANG SWITCHES, F9 BOX WITH SPECIFICATION GRADE, SINGLE POLE SWITCH, 15 A., 120 V., HUBBELL CAT.#1301 + F5 BOX CROUSE-HINDS, CAT. #F2004 + COVER CAT. #DS32
	22	1	A.C. CONTACTOR FOR TANK AREA LIGHTING, 120 V. 20 A., ELECTRICALLY HELD, TYPE 1 GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY BULLETIN 300L (NO. OF POLES AS PER PARTICULAR PROJECT DWG'S.
*	13	**	A.C. CONTACTOR FOR REMOTE VENTILATION SYSTEM c/w OVERLOAD HEATER 120 V., 1 ø., 2 POLES, SIZE 0, ELECTRICALLY HELD TYPE ALLEN-BRADLEY CAT.# 600-A40A00 c/w ONE N.O. AUXILIARY CONTACT
*	14	**	A.C. CONTACTOR FOR REMOTE HEATER, 120 V., 1 ø., 2 POLES, 20 A., ELECTRICALLY HELD TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT.# 509L-A40D2
*	15	**	CONTROL RELAY FOR REMOTE HEATER, ELECTRICALLY HELD A.C., c/w 4 CONTACTS N.O. TYPE ALLEN-BRADLEY CAT.# 700-P400-A1 c/w EEMAC ENCLOSURE CAT.# 700-N32F5
	19	**	WEATHERPROOF PHOTO CONTROL, TURN LOCK TYPE TORK CAT.# 2020, 120 V., 1000 W. c/w RECEPTACLE AND MOUNTING BRACKET MODEL # 2021
*	17	**	AUTOMATIC RESET TIMER FOR REMOTE HEATER, INTERVAL USE TYPE 500 SERIES, 120 VAC. RANGE 0 TO 3 HRS., 5 MIN. GRADUATION PARAGON ELECTRIC CO. MODELE 501-142-20 c/w MOISURE AND DUST RESISTANT CASE MODEL 500 AND EDP.# 41150 ENCLOSURE TIMER SET AT 1 HR.
*	20	1	POLYGAS SURVEILLANCE & DETECTION SYSTEM WITH CONTROL MODULE, c/w CONNECTION BLOCKS, RELAY & DUSTPROOF CABINET. SEE SPEC'S. & NOTE #4
*	20	1	CONTROL TRANSFORMER 120 VAC. / 12 VAC., SUPPLIED WITH ITEM 20
*	20	1	METAL ENCLOSURE, 150 Lg. x 150 H. x 100 D., CGE STANDARD TYPE "D"
*	21	**	FULL VOLTAGE MAGNETIC STARTER FOR REMOTE PUMP MOTOR, SIZE 1, 600 V. MAX. RATING. 1 ø., 60 Hz WITH 2 POLES WITH ONE TYPE B, OVERLOAD RELAY HEATER ELEMENT, COIL AT 120 V., c/w ONE N.O. AUXILIARY CONTACT & GREEN PILOT LIGHT IN DOOR OF ENCLOSURE, TYPE 1 GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT.# 509-BAND WITH ACCESSORIES.
	10	1	ALLEN-BRADLEY BULLETIN 500 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, W/ AUXILIARY CONTACT, TYPE 1 GENERAL ENCLOSURE, CAT.#500-AA4A00

* – ITEMS SUPPLIED WITH DISPENSER BUILDING(S) & INSTALLED BY CONTRACTOR IN OPERATOR'S SHELTER BUILDING.

* * – QTY. AS REQ'D. BY PARTICULAR PROJECT DRAWINGS. (P.P.D.) & NOTES #4 & 5

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR NOTES REFER TO E-SB-01
2. FOR NUMBER & TYPE OF LIGHTING FIXTURES AT DISPENSER ISLAND & TANK AREA REFER TO PARTICULAR PROJECT DWG'S.
3. ONE CONTACTOR 73 REQUIRED FOR EACH DISPENSER BLDG.
4. ONE POLYGAS CONTROL MODULE 78 REQUIRED FOR EACH DISPENSER BUILDING. IF MORE THAN ONE DISPENSER IS INSTALLED AT SAME SITE, THE REQUIRED NUMBER OF CONTROL MODULES CAN BE PURCHASED WITH ALL MODULES IN SAME CABINET, ONLY ONE TRANSFORMER 79 AND BOX 80 REQUIRED PER SITE.
5. FOR OTHER NOTES AND DETAILS REFER TO PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13220.

No	DATE	DESCRIPTION	CHK'D
1	94/10/20	UPDATED	RBE

REVISIONS

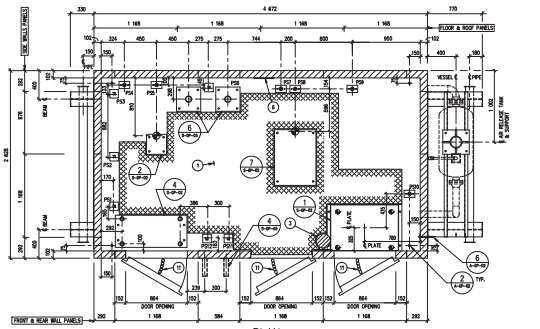
DESIGN: RYAN
DRAWN: RJ
APPROVED:

PROJECT TITLE: OPERATOR'S SHELTER BUILDING

DRAWING TITLE: ELECTRICAL PLAN, ELEVATION & SCHEMATICS

SCALE: 1 : 25 OR AS SHOWN | DATE: 94/02/08

DRAWING No. E-SB-02 | REV. 1

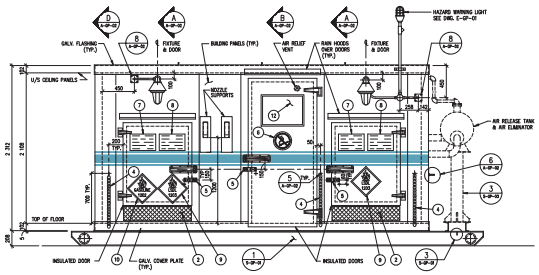


PLAN

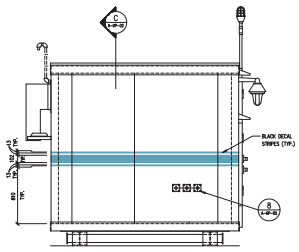
DETAIL 1 / A-GP-02

LEGEND:

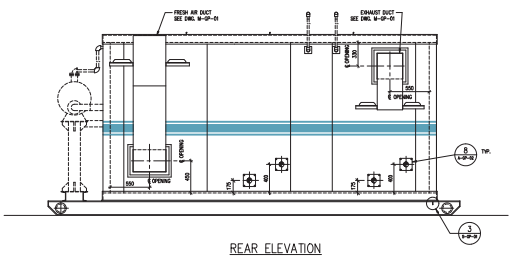
1. NON-SKID ALUMINUM "SAFETY TREAD" FLOORING SHEETS, SEE SPEC'S. (KEEP NUMBER OF PLATES TO A MINIMUM)
2. ALUMINUM CHECKERED PLATE, ALCOA CO. STYLE JC-102 OR EQUIV., 250M x 850LG. x 3 THK. (2 REQ'D) POP RIVETED TO WALL PANELS AT 150 c/c MAX. SPACING AT PERIMEMT
3. FIRE EXTINGUISHER c/w BRACKET MOUNTED 100 ABOVE FLOOR – (1 REQ'D), SEE SPEC'S
4. HEAVY DUTY CHAIN c/w HOOKS, TYPICAL AT DOORS, SEE SPEC'S (3 REQ'D.)
5. HASP – (3 REQ'D), SEE SPEC'S
6. "NO SMOKING" SIGN – (2 REQ'D), SEE SPEC'S
7. "NO SMOKING/STOP YOUR MOTOR" SIGN (IN ENGLISH) – (2 REQ'D), SEE SPEC'S
8. "NO SMOKING/STOP YOUR MOTOR" SIGN (IN LOCAL TRANSLATION) – (2 REQ'D), SEE SPEC'S
9. UN NUMBER 1203 "LSDL" SIGN, SEE SPEC'S
10. UN NUMBER 1202 "GASOLINE" SIGN, SEE SPEC'S
11. HEAVY DUTY SPRING BUMPER CHAIN ON ALL DOORS, SEE SPEC'S (3 REQ'D)
12. DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME.
13. "CLOSE VALVE" SIGNS, SEE SPEC'S
14. SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING.
15. POST PROCESS FLOW SHEET AND OPERATING INSTRUCTIONS.



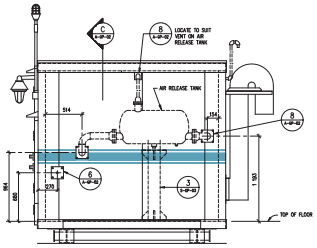
FRONT ELEVATION



LEFT SIDE ELEVATION



REAR ELEVATION



RIGHT SIDE ELEVATION

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF FRESH AIR INTAKE & EXHAUST DUCTS SEE DRAWING M-GP-01
3. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13227.
4. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
5. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/10/24	UPDATED	LR

REVISIONS

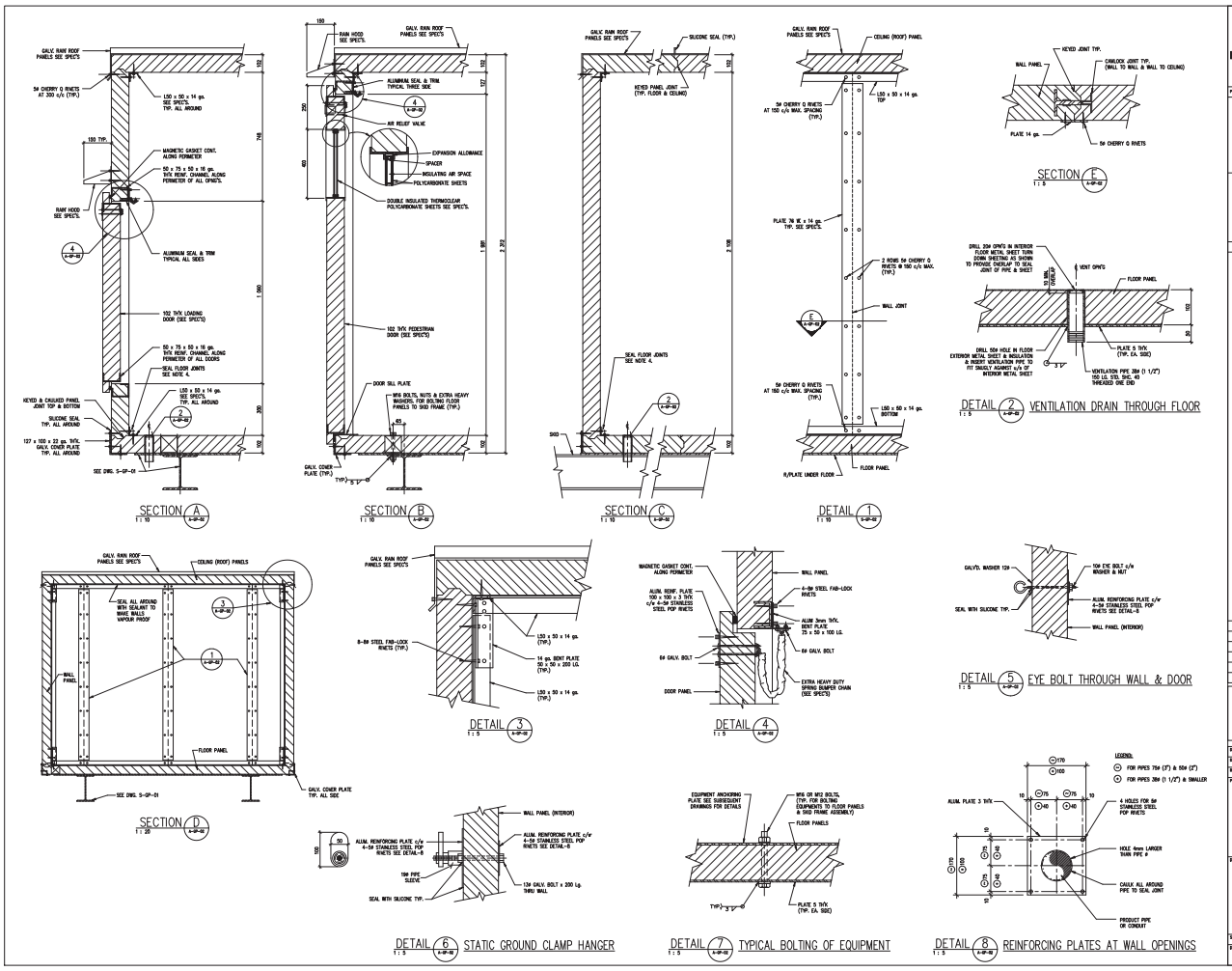
DESIGN: EDZ
DRAWN: KJ
REVIEWED: REE

PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE: FLOOR PLAN & ELEVATIONS

SCALE: 1 : 25 | DATE: 04/03/24

DRAWING No. A-GP-01 | REV. 1



Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

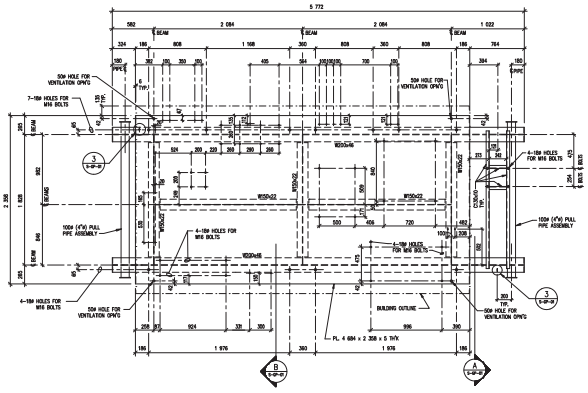
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13227.
3. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL BY CONTACT WITH BUILDING PANELS.
4. SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING
5. LSDL IS LOW SULPHUR DIESEL.

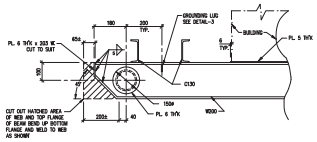
No	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

REVISIONS

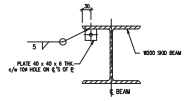
DESIGN: EDZ
DRAWN: CAD / SL
REVIEWED: RDZ
PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL
DRAWING TITLE: SECTIONS AND DETAILS
SCALE: 1 : 10 OR AS SHOWN
DATE: 04/03/20
DRAWING No: A-GP-02
REV: 1



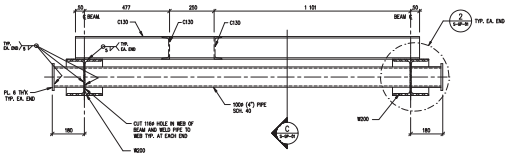
DETAIL 1 (S-GP-01) SKID ASSEMBLY
1 : 25
(ALL: HOLES 14ø UNLESS NOTED OTHERWISE)



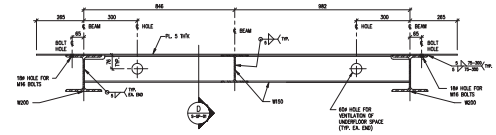
DETAIL 2 (S-GP-01)
1 : 10



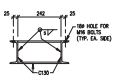
DETAIL 3 (S-GP-01) GROUNDING LUG (2 REQ'D.)
1 : 5



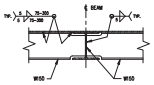
SECTION A (S-GP-01)
1 : 10



SECTION B (S-GP-01)
1 : 10



SECTION C (S-GP-01)
1 : 10



SECTION D (S-GP-01)
1 : 10

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. WELDING AT PLATES FLUSH TO U/S OF FLOOR PANELS SHALL BE GROUND SMOOTH TO PERMIT PROPER BEARING OF PANELS TO PLATES.
3. NO WELDING ON OPEN FLANGE SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
4. ALL BOLTING SHALL BE WITH MACHINE BOLTS TO ASTM A325 GALVANIZED HEX. HEADS AND NUTS. ALL SCREWS SHALL BE METAL SCREWS GALVANIZED, SIZES AS SHOWN LENGTHS AS REQUIRED.
5. NUMBER AND SPACINGS OF PANEL MOUNTING HOLES COULD VARY TO SUIT SIZE OF FLOOR PANELS. CONTRACTOR TO VERIFY WITH SHOP DRAWINGS OF PANEL MANUFACTURER FOR FINAL PANEL SIZES PRIOR TO FABRICATION OF SKID FRAME.
6. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13222.
7. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

REVISIONS

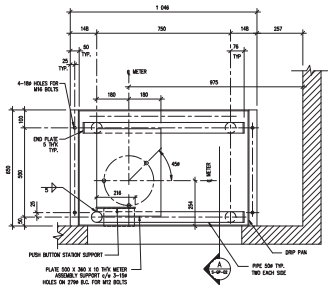
DESIGN: EDZ
DRAWN: CAD / BL
REVIEWED: RDZ

PROJECT TITLE
DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

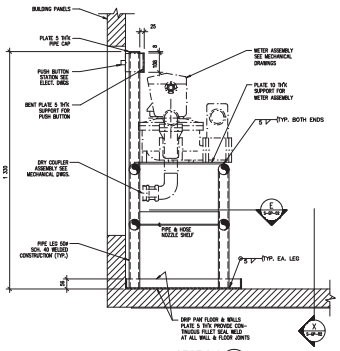
DRAWING TITLE
SKID ASSEMBLY PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN
DATE: 04/03/20

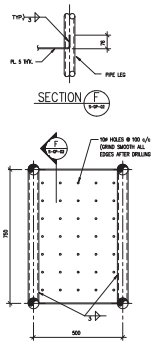
DRAWING No. S-GP-01
REV. 1



DETAIL 1 (S-GP-02) DRIP PAN & METER SUPPORT FOR LSDL FUEL

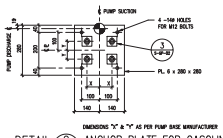


SECTION A (S-GP-02)

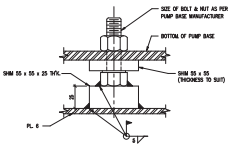


SECTION F (S-GP-02)

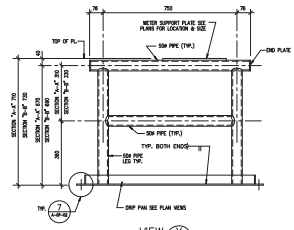
SECTION E (S-GP-02)



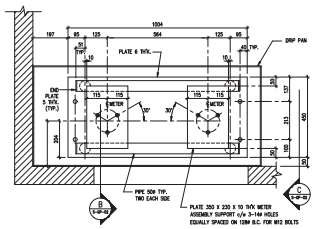
DETAIL 2 (S-GP-02) ANCHOR PLATE FOR GASOLINE PUMP



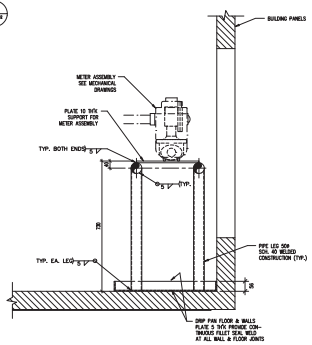
DETAIL 3 (S-GP-02)
1 : 2



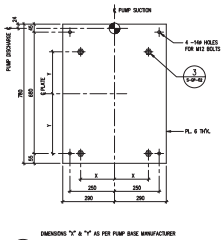
VIEW X (S-GP-02)



DETAIL 4 (S-GP-02) METER SUPPORT FOR GASOLINE & LSDL METERS



SECTION B (S-GP-02)



DETAIL 7 (S-GP-02) ANCHOR PLATE FOR LSDL FUEL PUMP

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR OTHER NOTES REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13227.
3. FOR DETAILS ON UTILITY ROLLERS AND END BRACKETS REFER TO SPECIFICATIONS ON HOSE REEL.
4. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
5. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/05/20	UPDATED	LR

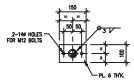
REVISIONS

DESIGN: EDZ
DRAWN: CAD / BL
REVIEWED: RDZ

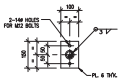
PROJECT TITLE
DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE
DRIP PAN & METER SUPPORT ANCHOR PLATE FOR HOSE REEL & PUMP BASE SECTIONS & DETAILS

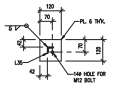
SCALE: 1 : 10 OR AS SHOWN
DATE: 04/03/20
DRAWING No. S-GP-02
REV. 1



SECTION 1 / S-GP-03

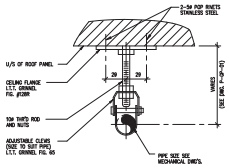


SECTION 2 / S-GP-03



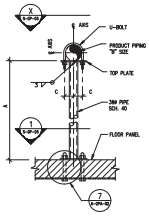
SECTION 3 / S-GP-03

TABLE FOR PIPE SUPPORTS						
NO.	TYPE	A	B	C	D	E
PS1	4	800	25ø	20	–	6ø
PS2	4	800	25ø	20	–	6ø
PS3	4	800	25ø	20	–	6ø
PS4	1	370	50ø	36	100	10ø
PS5	1	145	50ø	36	100	10ø
PS6	3	1050	25ø	20	–	6ø
PS7	2	1 153	50ø	36	100	10ø
PS8	1	215	75ø	52	140	12ø
PS9	2	1 148	75ø	52	140	12ø
PS10	1	406	75ø	52	140	12ø
PS11	3	500	19ø	18	–	6ø
PS12	3	500	19ø	18	–	6ø

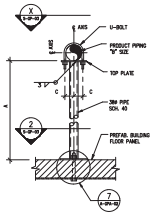


PIPE HANGERS (PH1 TO PH15)

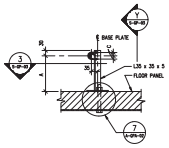
DETAIL 2 / S-GP-03
1 : 25



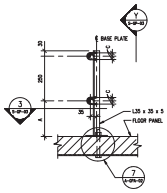
TYPE 1



TYPE 2

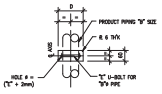


TYPE 3



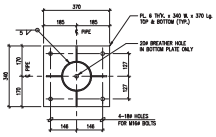
TYPE 4

DETAIL 1 / S-GP-03 PIPE SUPPORTS

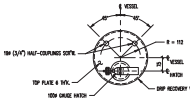


VIEW X / S-GP-03

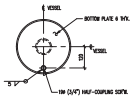
VIEW Y / S-GP-03



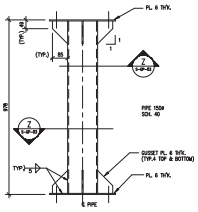
SECTION 7 / S-GP-03



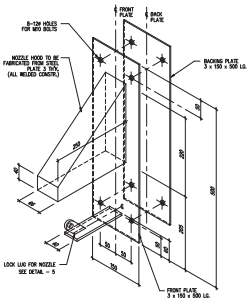
PLAN TOP VIEW



SECTION A / S-GP-03

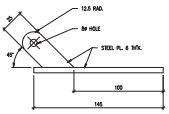


DETAIL 3 / S-GP-03 SUPPORT FOR AIR RELEASE TANK

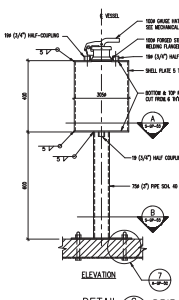


DETAIL 4 / S-GP-03
1 : 5 GASOLINE OR LSDL HOSE NOZZLE SUPPORT

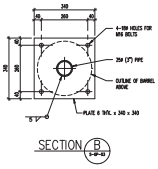
END VIEW



DETAIL 5 / S-GP-03
1 : 2



ELEVATION



SECTION B / S-GP-03

DETAIL 6 / S-GP-03 DRIP RECOVERY VESSEL

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR OTHER NOTES REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13227.
3. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS.
4. ALL HOLD DOWN BOLTS OR NUTS TO BE TACK WELDED TO UNDERSIDE OF FLOOR PLATES.
5. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

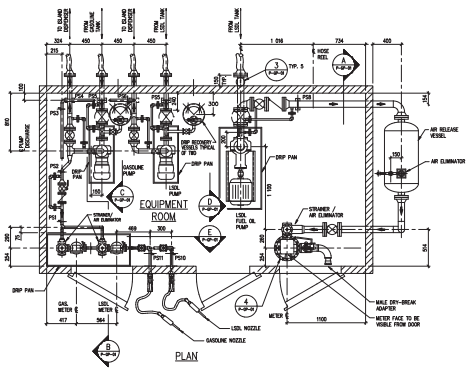
REVISIONS

DESIGN: EDZ
DRAWN: CAD / SL
REVIEWED: RDZ

PROJECT TITLE
DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

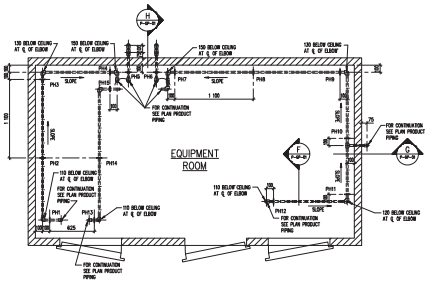
DRAWING TITLE
SUPPORT & SAMPLE BARREL SECTIONS & DETAILS

SCALE: 1 : 10 OR AS SHOWN
DATE: 04/03/20
DRAWING No. S-GP-03
REV. 1



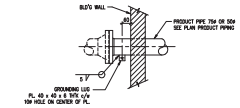
PLAN

DETAIL 1 (P-GP-01) PRODUCT PIPING



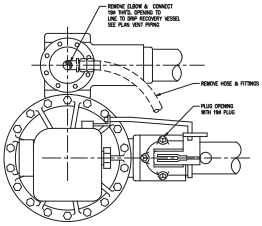
PLAN

DETAIL 2 (P-GP-01) VENT PIPING

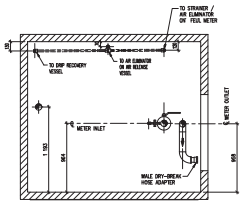


STATIC ELECTRICITY GROUNDING LUG (3 REQ'D.)

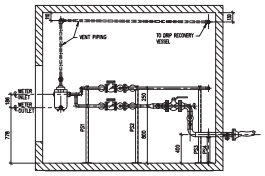
DETAIL 3 (P-GP-01) 1 : 12,5



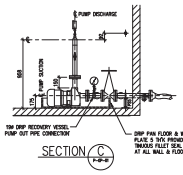
DETAIL 4 (P-GP-01) 1 : 8



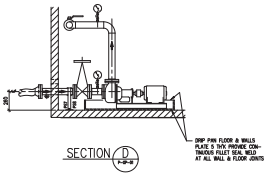
SECTION A (P-GP-01)



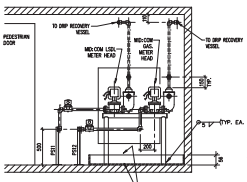
SECTION B (P-GP-01)



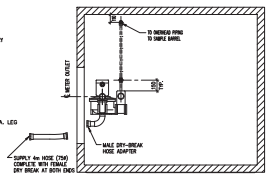
SECTION C (P-GP-01)



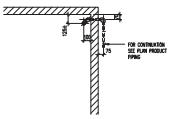
SECTION D (P-GP-01)



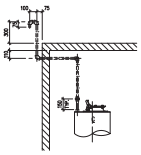
SECTION E (P-GP-01)



SECTION F (P-GP-01)



SECTION G (P-GP-01)



SECTION H (P-GP-01)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES
2. WELDING TO CONFORM TO CAN/CSA -B51-M, BOILER, PRESSURE VESSEL AND PIPING PRESSURE CODE. ALL ELECTRODES TO BE E7018. SEE SPEC'S
3. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900.
4. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 15, SECTION 09900, 2ø-4
5. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

REVISIONS

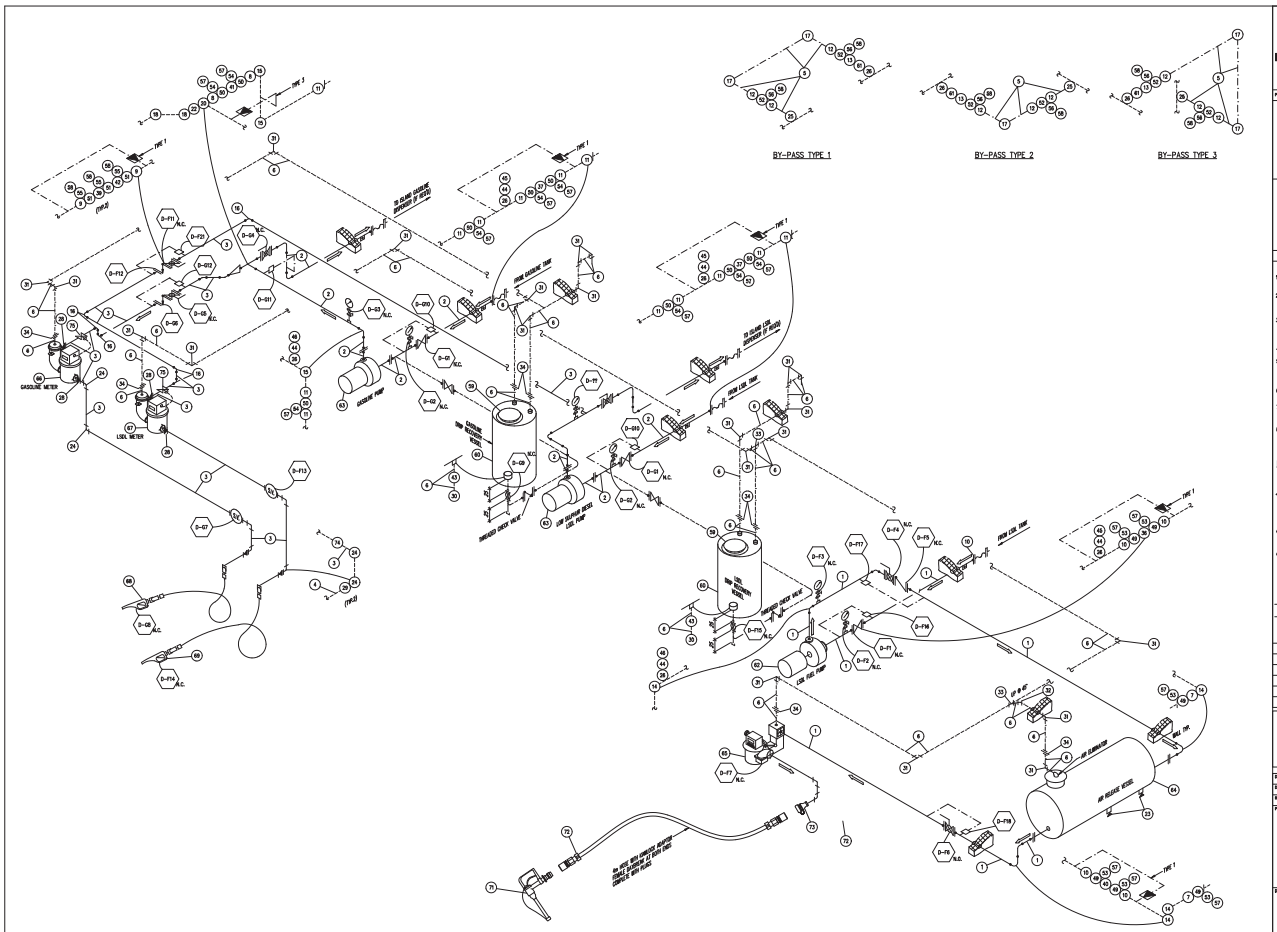
DESIGN: RYAN
DRAWN: RJ
REVIEWED: RCE

PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE: PIPING PLAN, SECTIONS & DETAILS

SCALE: 1 : 25 OR AS SHOWN
DATE: 04/03/20

DRAWING No: P-GP-01
REV: 1



SCHEMATIC ISOMETRIC GASOLINE & LSDL FUEL DISPENSING SYSTEMS

(NO SCALE)

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION OF CIRCLED NUMBERS REFER TO DRAWING P-GP-02A.
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 RELIEVED IN DIRECTION OF ARROW (TOWARDS STORAGE TANKS). FOR PRESSURE SETTING OF PRESSURE RELIEF VALVES REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15000.
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 E7000X. SEE SPECIFICATIONS, DIVISION 15, SECTION 15010.
6. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900.
7. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. (new)
8. LSDL IS LOW SULPHUR DIESEL.

LEGEND:

F.O.T. : FLAT ON TOP

: PRESSURE RELIEF VALVE

: ARROW INDICATES DIRECTION OF FLOW (SEE SPEC'S.)

(D-F) : INDICATES VALVE NUMBER ON LSDL FUEL SYSTEM

(D-0) : INDICATES VALVE NUMBER ON GASOLINE SYSTEM

N.C. : NORMALLY CLOSED

N.O. : NORMALLY OPENED

— — — — : INDICATES VENT PIPING LINE.

— · — · — : INDICATES PRESSURE RELIEF LINE.

No	DATE	DESCRIPTION	CHK'D
1	04/05/05	UPDATED	LR

REVISIONS

DESIGN: RYAN
DRAWN: RJ
REVIEWED: REE

PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE: PIPING ISOMETRIC

SCALE: NTS | DATE: 04/03/05

DRAWING No. P-GP-02 | REV. 1

BILL OF MATERIALS FOR GASOLINE / LSDL FUEL DISPENSER BUILDING

(NO SCALE)

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 #	PIPE, SCH. 40 SEAMLESS
2	50 #	PIPE, SCH. 40 SEAMLESS
3	25 #	PIPE, SCH. 40 SEAMLESS
4	19 #	PIPE, SCH. 40 SEAMLESS
5	12 #	PIPE, SCH. 40 SEAMLESS
6	19 #	PIPE GALVANIZED, SCH. 40
7	75 #	WELDING NECK FLANGE, CLASS 150, FS, RF
8	50 #	WELDING NECK FLANGE, CLASS 150, FS, RF
9	25 #	WELDING NECK FLANGE, CLASS 150, FS, RF
10	75 #	SLIP-ON FLANGE, CLASS 150, FS, RF
11	50 #	SLIP-ON FLANGE, CLASS 150, FS, RF
12	12 #	SLIP-ON FLANGE, CLASS 150, FS, RF
13	12 #	FLANGE THREADED, CLASS 150, FS, RF
14	75 #	ELBOW 90° L.R.
15	50 #	ELBOW 90° L.R.
16	25 #	ELBOW 90° L.R.
17	12 #	ELBOW 90° SOCKET WELD
18	25 #	ELBOW 45° L.R.
19	75 #	STRAIGHT TEE
20	50 #	STRAIGHT TEE
21	75 # x 50 #	CONCENTRIC REDUCER
22	50 # x 25 #	CONCENTRIC REDUCER
23	25 #	PLUG THREADED SQUARE HEAD, STEEL
24	25 #	ELBOW 90° THREADED
25	12 #	HALF COUPLING SOCKET WELD
26	12 #	HALF COUPLING THREADED
27	75 # x 65 #	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
28	38 # x 25 #	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
29	25 # x 19 #	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
30	19 #	PIPE CAP MALLEABLE IRON GALVANIZED
31	19 #	ELBOW 90° MALLEABLE IRON GALVANIZED
32	19 #	ELBOW 45° MALLEABLE IRON GALVANIZED
33	19 #	STRAIGHT TEE MALLEABLE IRON GALVANIZED
34	19 #	UNION MALLEABLE IRON CLASS 300 GROUND JOINT COPPER ALLOY TO IRON GALVANIZED
35	65 # x 50 #	REDUCER MALLEABLE IRON GALVANIZED
36	75 #	GATE VALVE CAST STEEL FLANGED, CLASS 150, LCB
37	50 #	GATE VALVE CAST STEEL FLANGED, CLASS 150, LCB
38	75 #	CHECK VALVE CAST STEEL FLANGED, CLASS 150, LCB
39	25 #	CHECK VALVE CAST STEEL FLANGED, CLASS 150, LCB
40	75 #	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
41	50 #	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
42	25 #	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
43	19 #	BALL VALVE CARBON STEEL THREADED ENDS
44		GAUGE VALVE SEE SECTION 13227
45		COMPOUND PRESSURE/ VACUUM GAUGE SEE SECTION 13227

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
46		PRESSURE GAUGE SEE SECTION 13227
47	75 # x 457 Lg.	FLEXIBLE CONNECTOR FLANGED
48	50 # x 65 Lg.	PIPE NIPPLE CARBON STEEL GALVANIZED
49	75 # x 150#	RING GASKET
50	50 # x 150#	GASKET
51	25 # x 150#	GASKET
52	12 # x 150#	GASKET
53	16 # x 89 Lg.	STUD BOLTS (FOR 75# AND 100# FLANGES)
54	16 # x 76 Lg.	STUD BOLTS (FOR 50# FLANGES)
55	12 # x 65 Lg.	STUD BOLTS (FOR 25# FLANGES)
56	12 # x 57 Lg.	STUD BOLTS (FOR 12# FLANGES)
57	16 #	NUTS
58	12 #	NUTS
59	100 #	GAUGE HATCH SEE SECTION 13227
60		DRIP RECOVERY VESSEL SEE DRAWING NO. S-GP-03, AND SECTION 13227
61	12 #	PRESSURE RELIEF VALVE SEE SECTION 13227
62		DIESEL FUEL PUMP SEE SECTION 13227
63		LSDL AND GASOLINE PUMP SEE SECTION 13227
64		AIR RELEASE VESSEL C/W AIR ELIMINATOR SEE SECTION 13227
65		DIESEL FUEL METERING ASSEMBLY SEE SECTION 13227, WITHOUT AUTO TEMPERATURE CORRECTION
66		GASOLINE METERING ASSEMBLY SEE SECTION 13227, C/W AUTOMATIC TEMPERATURE CORRECTION
67		LSDL (MOTIVE LSDL FUEL) METERING ASS'Y SEE SECTION 13227, C/W AUTOMATIC TEMP. CORRECTION
68		HOSE ASSEMBLY FOR GASOLINE DISPENSING SEE SECTION 13227
69		HOSE ASSEMBLY FOR LSDL DISPENSING SEE SECTION 13227
70		
71		NOZZLE FOR TOP LOADING OF LSDL FUEL TRUCK SEE DESCRIPTION SECTION 13227
72		DRY-BREAK COUPLER SEE DESCRIPTION SECTION 13227
73		DRY-BREAK ADAPTER SEE DESCRIPTION SECTION 13227
74	25 #	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 # NPT CONDUIT HOUSING, POWER CONSUMPTION: 10W MAXIMUM. SKINNER "L" SERIES CAT. NO. XL2DB6150 OR EQUIVALENT
75	25 #	SOLENOID OPERATED VALVE, SUPPLIED WITH MID:COM METER SYSTEM

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR EQUIPMENT SCHEMATICS SEE DRAWING P-GP-02.
2. FOR MATERIAL SPECIFICATIONS AND DETAILS SEE SPECIFICATIONS, DIV. 15, SECTION 15010.
3. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	DWN
1	99/99/99	UPDATED	LF

REVISIONS

DESIGN: RVM
DRAWN: RJ
REVIEW: MEE

PROJECT TITLE

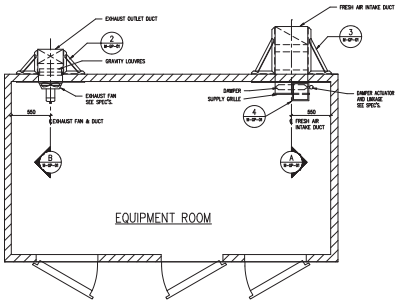
DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE

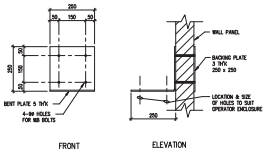
BILL OF MATERIALS

SCALE: N.T.S. DATE: 94/03/25

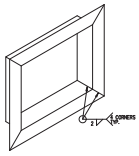
DRAWING No. P-GP-02A REV. 1



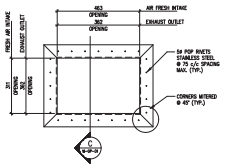
DETAIL 1 (1:25)



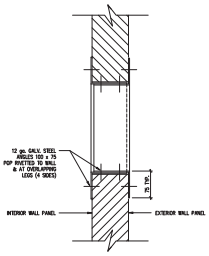
DETAIL 4 (1:10) BRACKET FOR DAMPER OPERATOR



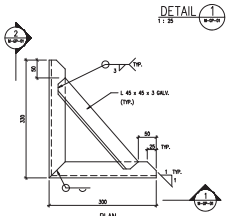
SPLIT FRAME ISOMETRIC AT WALL
(TYPICAL AT INTAKE & EXHAUST DUCTS)



DETAIL 5 (1:10) DUCT OPENINGS THROUGH WALL

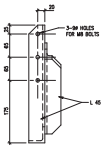


SECTION C

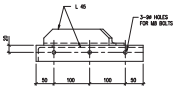


DETAIL 2 (1:5) BRACKET TYPE "A"

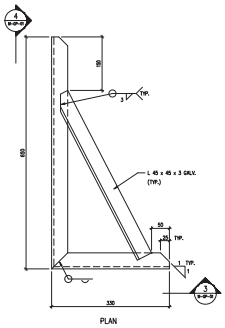
(RIGHT HAND SHOWN – ONE EACH HAND REQ'D)



VIEW 2

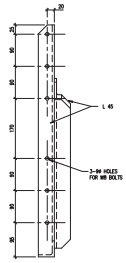


VIEW 1

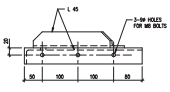


DETAIL 3 (1:5) BRACKET TYPE "B"

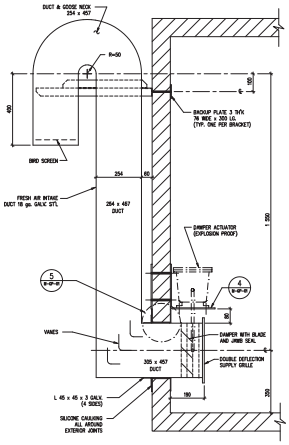
(RIGHT HAND SHOWN – ONE EACH HAND REQ'D)



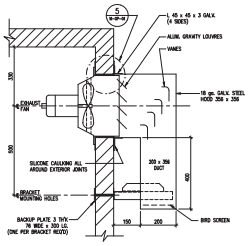
VIEW 4



VIEW 3



SECTION A



SECTION B

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. FOR PARTICULARS ON DUCTWORK, EXHAUST FAN, DAMPER OPERATOR, DAMPER, REDUCTER, GRILLE VANES & BIRD SCREENS REFER TO SPECIFICATIONS, DIV. 13, SECTION 13227.
3. FOR OTHER DETAILS SEE SUBSEQUENT DRAWINGS AND SPECIFICATIONS, DIVISION 13, SECTION 13227.
4. LSDL IS LOW SULPHUR DIESEL.

No	DATE	DESCRIPTION	CHK'D
1	04/10/20		LR

REVISIONS

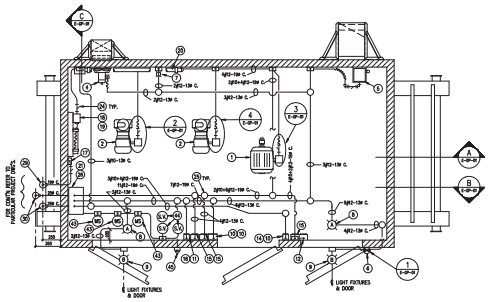
DESIGN: RMM
DRAWN: CAD / SL
REVIEWED: RDZ

PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

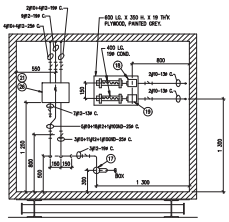
DRAWING TITLE: VENTILATION PLAN, SECTIONS & DETAILS

SCALE: 1 : 10 OR AS SHOWN
DATE: 04/03/20

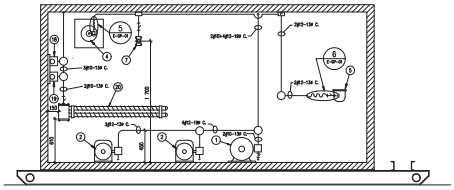
DRAWING No. M–GP–01
REV. 1



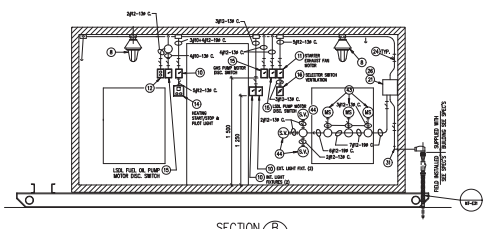
PLAN VIEW



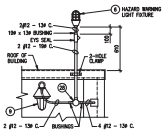
SECTION C



SECTION A

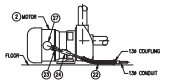


SECTION B

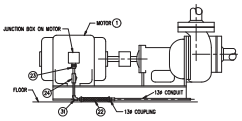


N.B.: FOR LOCATION OF EQUIPMENT SEE DWG. A-GP-01

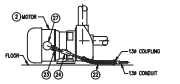
DETAIL 1 — ARRANGEMENT OF EXTERIOR LIGHT FIXTURES ABOVE SERVICE DOOR
1 : 20



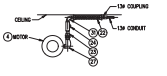
DETAIL 2 — CONNECTION AT GASOLINE PUMP MOTOR
1 : 12.5



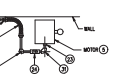
DETAIL 3 — CONNECTION AT LSDL FUEL OIL PUMP MOTOR
1 : 12.5



DETAIL 4 — CONNECTION AT LSDL PUMP MOTOR
1 : 12.5



DETAIL 5 — CONNECTION AT FAN MOTOR
1 : 12.5



DETAIL 6 — CONNECTION AT DAMPER MOTOR
1 : 12.5

LIST OF GAS./LSDL BUILDING ELECTRICAL EQUIPMENT

NO.	QTY.	DESCRIPTION
1	1	3 HP. PUMP MOTOR, 230 V., 1 ph., 60 Hz. (LSDL FUEL OIL) SEE SPECS.
2	2	3/4 HP. PUMP MOTOR, 230 V. 1 ph., 60 Hz. (GASOLINE) SEE SPECS.
3	–	NOT USED
4	1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPECS.
5	1	DAMPER ACTUATOR MOTOR, SEE SPECS.
6	1	HAZARD WARNING LIGHT FIXTURE, SEE SPECS.
7	1	HAZARD WARNING RED PILOT LIGHT, SEE SPECS.
8	2	LIGHT FIXTURE TYPE "A", SEE SPECS.
9	2	LIGHT FIXTURE TYPE "B", SEE SPECS.
10	3	TUMBLER SWITCHES, SEE SPECS.
11	1	MANUAL STARTER SWITCH, FOR HOSE REEL & EXHAUST SEE SPECS. & NOTE #9
12	1	MAINTAINED CONTACT START/STOP PUSH BUTTON STATION, FOR LSDL FUEL OIL PUMP, ALLEN-BRADLEY CAT.# 800H-2HA47.
13	1	ONE BUTTON PUSH-BUTTON, STATION FORWARD ON HOLD AND STOP ON RELEASE D.P.S.T. ALLEN-BRADLEY CAT.# 800H-BF1A3
14	1	MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE, TYPE ALLEN-BRADLEY CAT.# 800H-2HA20R7
15	3	DISCONNECT TUMBLER SWITCHES, EBMAC TYPE 2 COL 2 POLES, RATING 3 HP. @ 240 VAC. APPLETON CAT.# EDS-175 c/w ECSK-285
16	1	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-H2H47
17	1	SENSOR & CROUSE-HINDS CAU106 MOUNTING BOX, SEE SPECS.
18	1	THERMOSTAT, (HIGH TEMPERATURE) SET AT 10° C. SEE SPECS.
19	1	THERMOSTAT, (LOW TEMPERATURE) SET AT –10° C. SEE SPECS.
20	1	HEATER, SEE SPECS.
21	–	TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STYLE "U" MOUNTED IN JBOX (25 # 1492-J4 & 11 # 1492-UH3)
22	5	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# EDH112 (305 Lg.)
23	AS REQ'D.	UNION, TYPE CROUSE-HINDS "UNY" SERIES, SIZE TO SUIT
24	AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT
25	AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "DUA" SERIES, SIZE TO SUIT
26	1	JUNCTION BOX, CROUSE-HINDS CAT.# EJB 1204-SA
27	3	JUNCTION BOX, CROUSE-HINDS CAT.# CUA806
28	1	JUNCTION BOX, TYPE CROUSE-HINDS "DUF" CAT.# CUF126
29	1	JUNCTION BOX, CROUSE-HINDS CAT.# CUJB-36
30	2	JUNCTION BOX, CROUSE-HINDS CAT.# CUJB-36
31	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "EL" SERIES, SIZE TO SUIT
32	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "LR" SERIES, SIZE TO SUIT
33	3	MICRO-SWITCH, DOUBLE POLE, DOUBLE THROW, 120 V. 3 A., RATING. SUPPLIED WITH METER COUNTER. (SEE NOTE #8)
34	3	SOLENOID VALVE, TWO-WAY, NORMALLY CLOSED, 120 V., 60 CY., SUPPLIED & INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR (SEE NOTE #8)
35	1	JUMBO MUSHROOM HEAD EMERGENCY STOP BUTTON, ALLEN BRADLEY CAT # 800H-DPH802 MOUNTED IN A ALLEN- BRADLEY CAT#800H-1HA47N2 JUNC BOX WITH A ALLEN-BRADLEY CAT# 800H-HP30 COVER.

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
3. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE.
5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC.... SHALL BE IDENTIFIED WITH STAINLESS STEEL LABELS FASTENED TO BOXES.
6. FOR WIRING DIAGRAMS SEE DWG. E-GP-03.
7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING SHALL BE 120/240V, 1 PHASE, 60 CY.
8. FOR FULL DESCRIPTION OF MICRO-SWITCH & SOLENOID VALVE AND OTHER MATERIALS, REFER TO PAYMAS LIST OF MATERIAL IN SPECIFICATIONS, DIVISION 13, SECTION 13227.
9. OVERLOAD HEATER ELEMENT NOT REQUIRED IN MANUAL STARTER FOR FAN MOTOR.
10. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION OF USING THE ZONE METHOD FOR HAZARDOUS LOCATIONS. FOR ZONE CLASSIFICATION # 20 SEE DWG. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
11. LSDL IS LOW SULPHUR DIESEL.

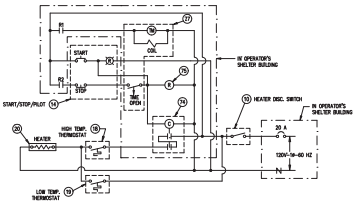
NO.	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

REVISIONS

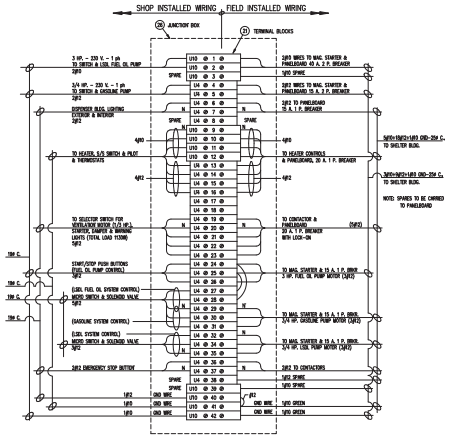
DESIGN: RYAN
DRAWN: CAD / SL
REVIEWED: RYAN
PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE: ELECTRICAL PLAN, SECTIONS & DETAILS

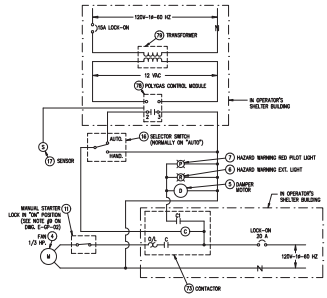
SCALE: 1 : 25 OR AS SHOWN
DATE: 04/03/20
DRAWING No.: E-GP-01
REV.: 1



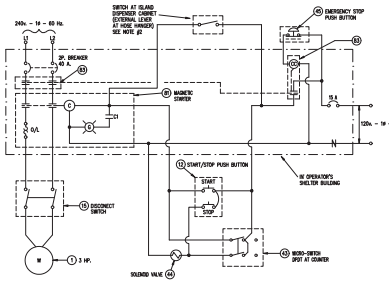
CONTROL WIRING DIAGRAM FOR
HEATING IN DISPENSER BUILDING



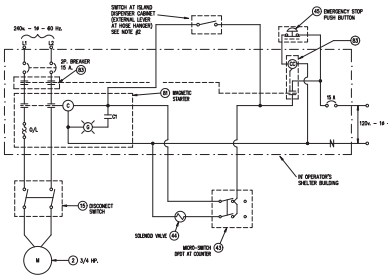
TERMINAL BLOCKS AT MAIN JUNCTION BOX
AT ENTRANCE TO BUILDING



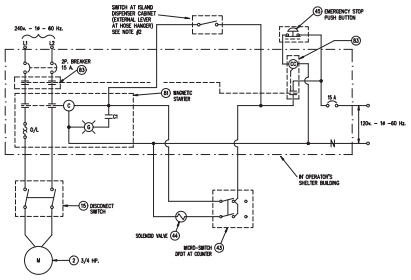
CONTROL WIRING DIAGRAM FOR
POLYGAS DETECTION & VENTILATION SYSTEMS



WIRING DIAGRAM FOR LSDL FUEL OIL DISPENSING SYSTEM



WIRING DIAGRAM FOR GASOLINE DISPENSING SYSTEM



WIRING DIAGRAM FOR LSDL DISPENSING SYSTEM

Northwest Territories Public Works & Services

PERMIT & PROFESSIONAL STAMPS

NOTES

1. FOR DESCRIPTION AND QUANTITY OF CIRCLED NUMBERS SHOWN THUS: (20) SEE LISTS OF BUILDING ELECTRICAL EQUIPEMENT ON DWG'S. E-GP-01 & E-SB-02
2. REQUIRED ONLY IF ISLAND CALLED FOR ON PARTICULAR PROJECT DRAWINGS.
3. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
4. LSDL IS LOW SULPHUR DIESEL.

No.	DATE	DESCRIPTION	CHK'D
1	04/10/20	UPDATED	LR

REVISIONS

DESIGN: RYAN
DRAWN: CAD / SL
REVIEWED: RCE
PROJECT TITLE: DISPENSER BUILDING FOR GASOLINE / LSDL FUEL

DRAWING TITLE: ELECTRICAL DIAGRAMS & TERMINAL BLOCKS

SCALE: 1 : 1
DATE: 04/03/20
DRAWING No.: E-GP-02
REV.: 1