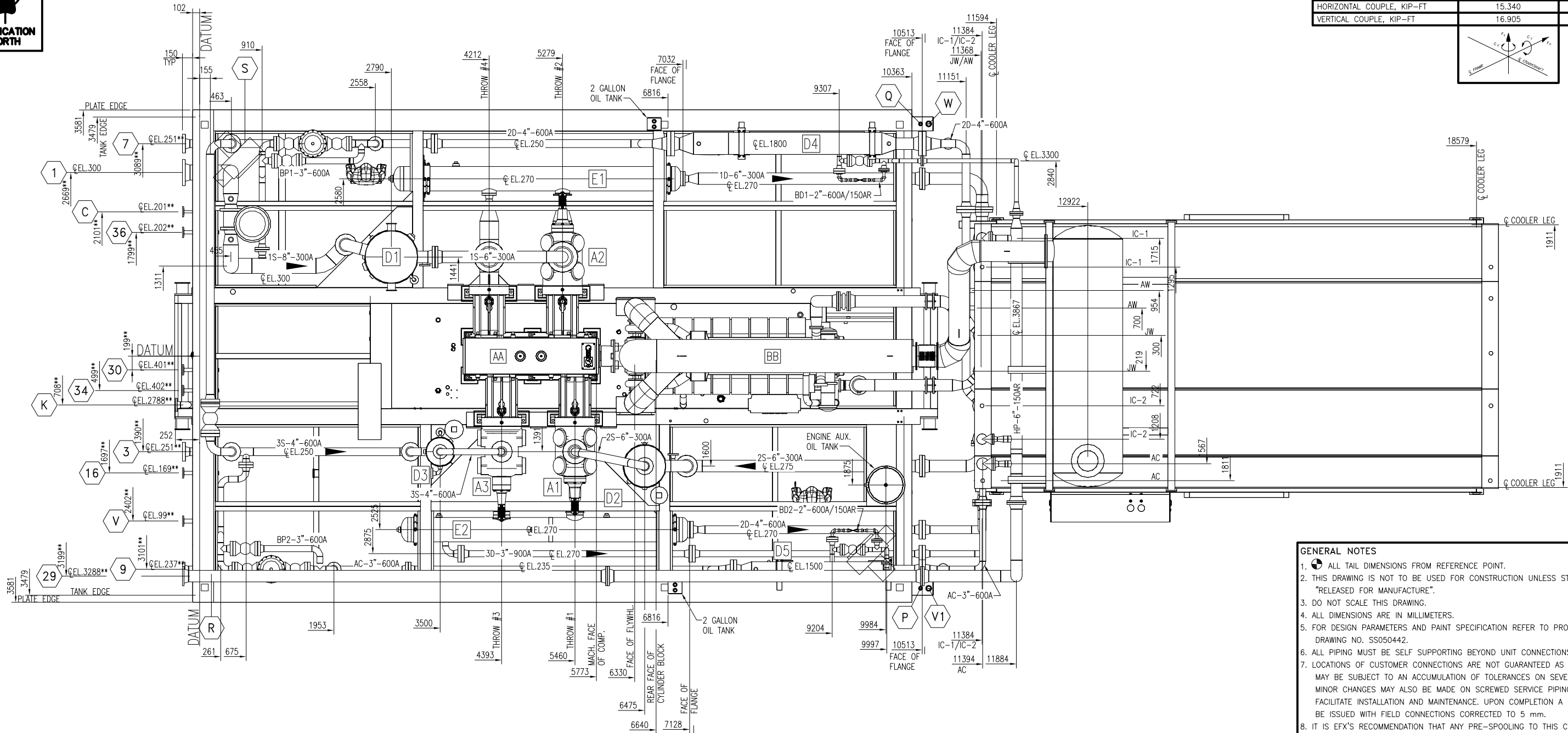
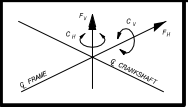


ENERFLEX

DRAWINGS



COMPRESSOR UNBALANCED FORCES @ 1200 RPM		
	PRIMARY	SECONDARY
HORIZONTAL FORCE, KIP	0.398	0.112
VERTICAL FORCE, KIP	0.00	0.00
HORIZONTAL COUPLE, KIP-FT	15.340	1.672
VERTICAL COUPLE, KIP-FT	16.905	0.00



PLAN VIEW

- GENERAL NOTES**
- ALL TAIL DIMENSIONS FROM REFERENCE POINT.
 - THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED "RELEASED FOR MANUFACTURE".
 - DO NOT SCALE THIS DRAWING.
 - ALL DIMENSIONS ARE IN MILLIMETERS.
 - FOR DESIGN PARAMETERS AND PAINT SPECIFICATION REFER TO PROJECT SCOPE SUMMARY DRAWING NO. SS050442.
 - ALL PIPING MUST BE SELF SUPPORTING BEYOND UNIT CONNECTIONS.
 - LOCATIONS OF CUSTOMER CONNECTIONS ARE NOT GUARANTEED AS THESE DIMENSIONS MAY BE SUBJECT TO AN ACCUMULATION OF TOLERANCES ON SEVERAL COMPONENTS. MINOR CHANGES MAY ALSO BE MADE ON SCREWED SERVICE PIPING IN ORDER TO FACILITATE INSTALLATION AND MAINTENANCE. UPON COMPLETION A FINAL DRAWING WILL BE ISSUED WITH FIELD CONNECTIONS CORRECTED TO 5 mm.
 - IT IS EFX'S RECOMMENDATION THAT ANY PRE-SPOOLING TO THIS COMPRESSOR PACKAGE CONTAIN FIELD WELDS AT ALL CUSTOMER CONNECTIONS.
 - DIMENSIONS INDICATED (*) SHALL BE CONFIRMED AND CERTIFIED CORRECT (**) ON A FINAL REVISION.

CUSTOMER CONNECTIONS			OTHER CUSTOMER LOCAL CONNECTIONS & VENTS		
NO.	DESCRIPTION	SIZE	NO.	DESCRIPTION	SIZE
1	STAGE ONE INLET	8"-300#RF	C	COMPRESSOR/ENGINE OIL TANKS INLET	2"-150#RF
3	STAGE THREE INLET	4"-600#RF	K	START/FUEL GAS VENT	3"-150#RF
7	STAGE TWO DISCHARGE	4"-600#RF	P	WASTE OIL TANK VENT	2" NPT
9	FINAL DISCHARGE	3"-600#RF	Q	GLYCOL TANK VENT	1" PIPE
16	SCRUBBER DRAIN HEADER	2"-150#RF	R	COMPRESSOR LUBE OIL TANK VENT	3/4" TUBE
29	PSV VENT HEADER	6"-150#RF	S	ENGINE LUBE OIL TANK VENT	3/4" TUBE
30	FUEL GAS SUPPLY	2"-150#RF	V	WASTE OIL TANK PUMP OUT	2"-150#RF
34	START GAS SUPPLY	2"-150#RF	V1	WASTE OIL TANK PUMP OUT (LOCAL)	2" NPT
36	INSTRUMENT AIR	2"-150#RF	W	GLYCOL TANK PUMP-OUT	2" NPT

UNIT DIMENSIONS (APPROX.)

OVERALL w/ALL EQUIP MOUNTED

LENGTH	19260 mm	63'-3"
WIDTH	7162 mm	23'-6"
HEIGHT	5160 mm	17'-0"
SHIPPING DIMENSIONS-MAIN SKID		
LENGTH	11042 mm	36'-6"
WIDTH	7162 mm	23'-6"
HEIGHT	4126 mm	13'-7"
COOLER DIMENSIONS c/w MUFFLER		
LENGTH	7955 mm	26'-2"
WIDTH	4545 mm	15'-0"
HEIGHT	5160 mm	17'-0"

SHIPPING WEIGHTS-MAIN SKID	KGS.	SHIPPING WEIGHTS W/ COOLER	KGS.
AA COMPRESSOR: ARIEL JGK/4	4850	CC COOLER: AIR-X-HEMPHILL 144ZF	8665
A1 9-1/8" "K" CYLINDER	1115	C1/C2 : JW & AW 14 PSIG @ 300°F	
A2 13-5/8" "K" CYLINDER	1615	C3 : IC-1 1292 PSIG @ 350°F	
A3 5" "K-DW" CYLINDER	960	C4 : IC-2 1650 PSIG @ 350°F	
BB ENGINE: CATERPILLAR G3516TALE	8755	C5 : AC 1650 PSIG @ 350°F	
D1 : 30"O.D.x80"S/S	1235	MUFFLER	900
D2 : 24"O.D.x66"S/S	705	MUFFLER SUPPORT	690
D3 : 16"O.D.x64"S/S	615	PIPING	985
D4 : 12-3/4"O.D. x 144" LONG	775	SURGE TANK	140
D5 : 8-5/8"O.D. x 108" LONG	260	TOTAL WEIGHT COOLER (B)	11380
E1 : 14"O.D.x153.5"S/S	505	SHIP LOOSE WEIGHTS	KGS.
E2 : 14"O.D.x153.5"S/S	795	PIPING	715
GG CONTROL PANEL	200	EXHAUST TUBING	300
SKID STEEL ONLY	12000	TOTAL SHIP LOOSE WEIGHT (C)	1015
CONCRETE (7.3 cubic metre)	17050		
CRANE	3000		
PIPING & MISC.	4600		
TOTAL WEIGHT MAIN SKID (A)	59035	TOTAL WEIGHT (A+B+C)	71430

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
2	AS BUILT	05/12/06	MGN	JLE
1	FOR CONSTRUCTION	05/05/17	DRO	DRO

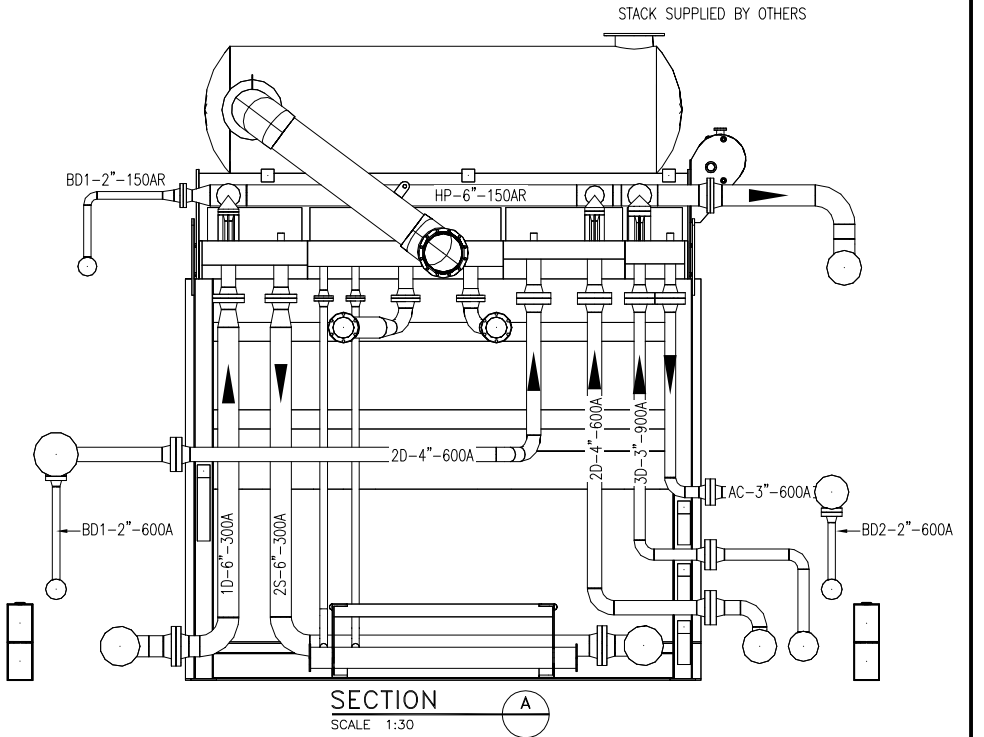
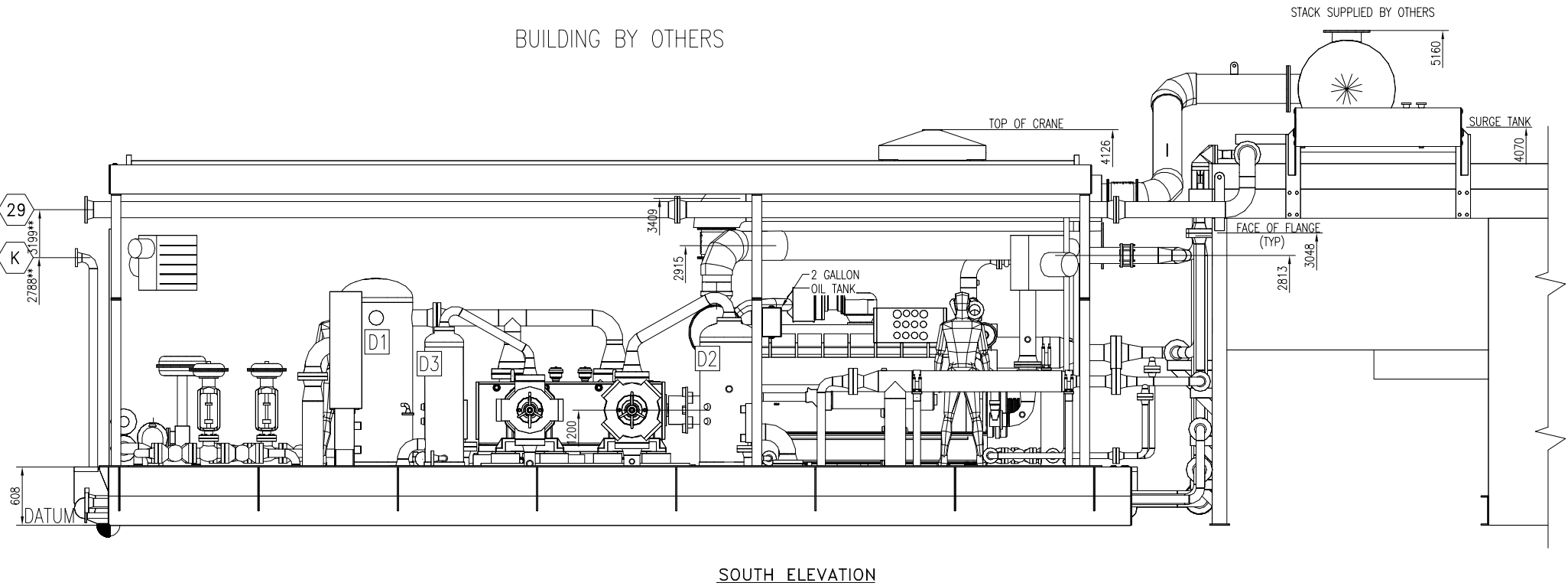
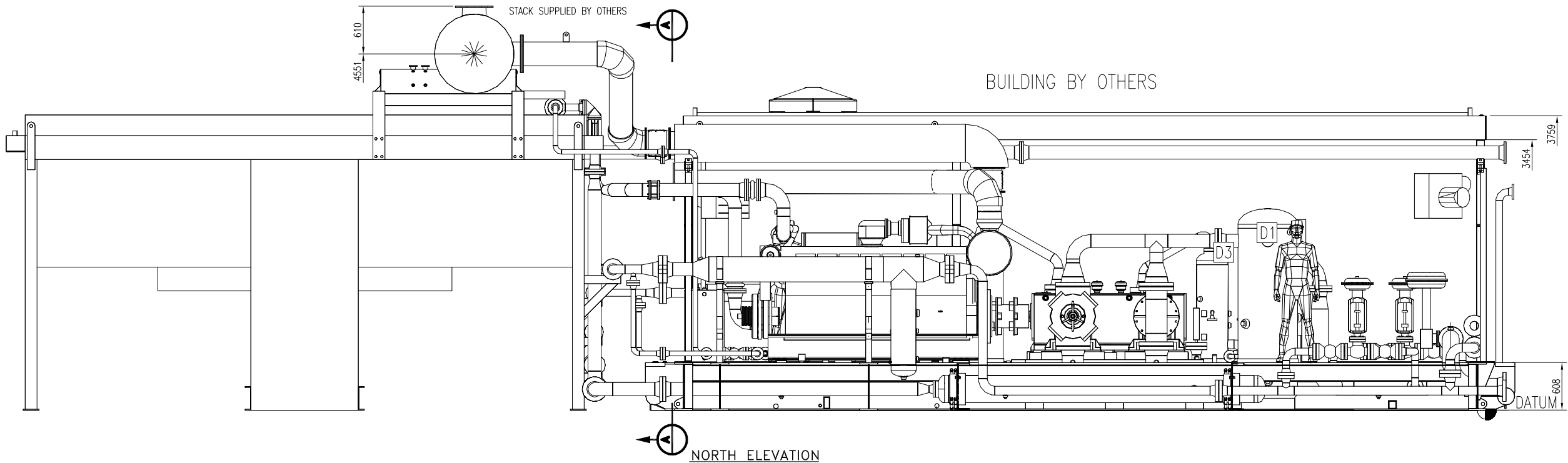
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE:
GENERAL ARRANGEMENT
ARIEL JGK/4, CATERPILLAR 3516TALE, AIR-X-HEMPHILL 144ZF
COMPRESSOR PACKAGE

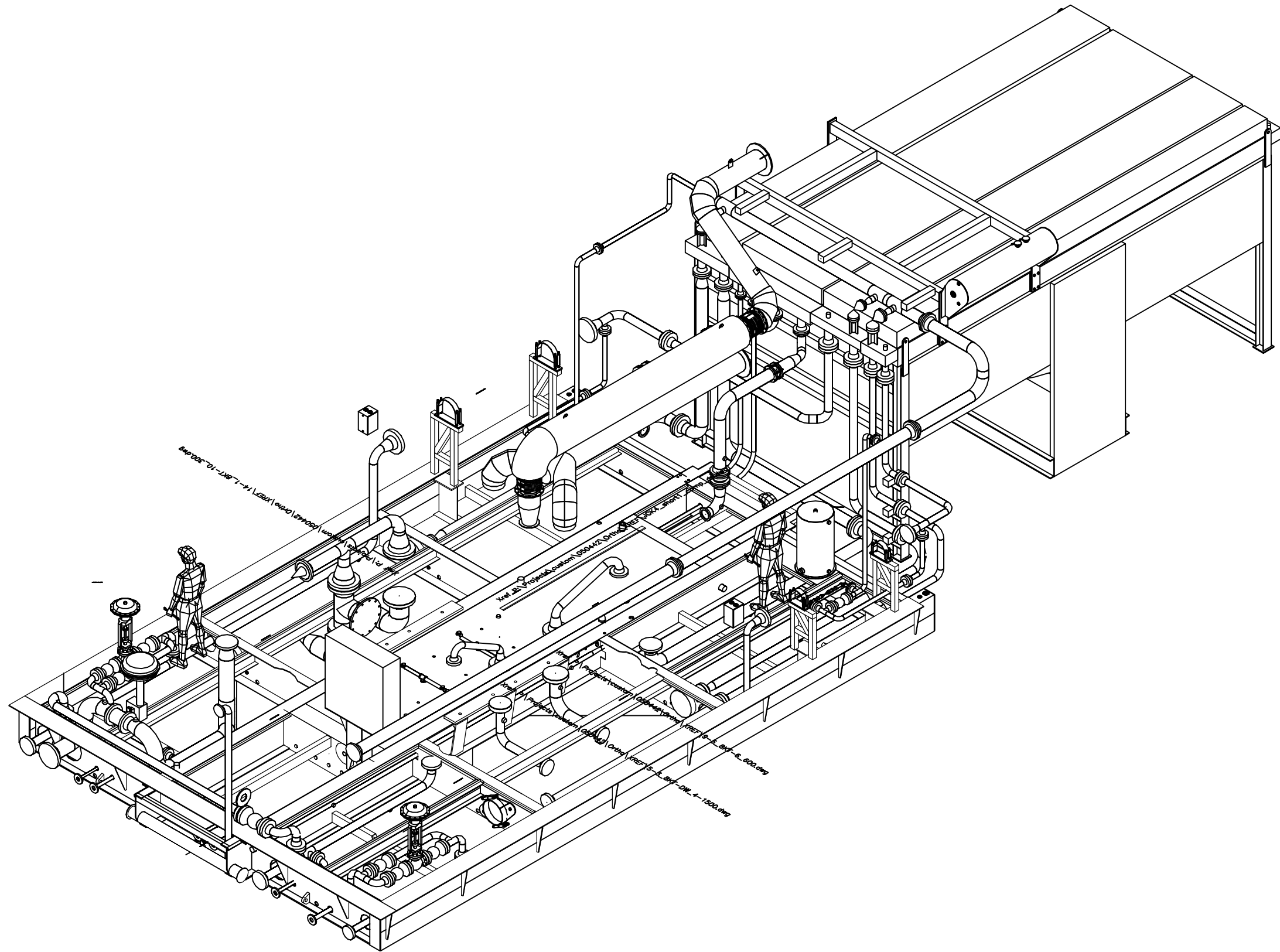
FOR:
FORT ENERGY CORPORATION
WEDGE GAS PLANT (K-600)

CONSULTANT: BDR ENGINEERING LTD. **LSD:** 05-07-62-06 W5M
P.O.: **JOB No.:** 050442

DRWN BY: DRO	DESIGN BY: DRO	DATE: 05/04/06	DWG. No.	OP#
DATE: 05/04/06	CHKD BY:	DATE:	GA050442	PG1/3
SCALE: 1:30	APPVD BY:	DATE:		10



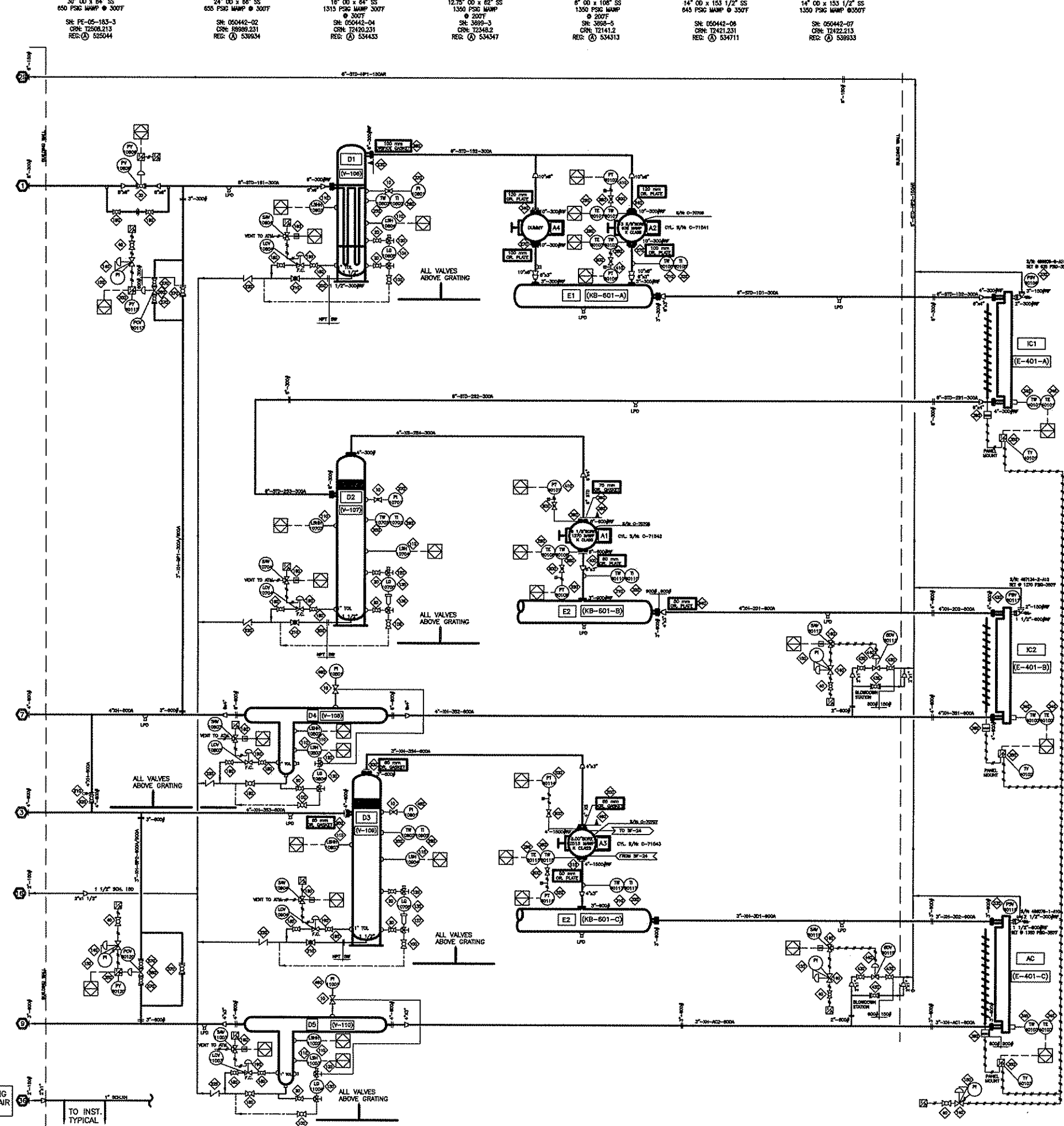
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2	AS BUILT	05/12/06	MGN	JLE
1	FOR CONSTRUCTION	05/05/17	DRO	DRO
EFX Compression 4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367 www.enerflex.com				
TITLE: ELEVATION VIEWS ARIEL JGK/4, CATERPILLAR 3516TALE, AIR-X-HEMPHILL 144ZF COMPRESSOR PACKAGE				
FOR: FORT ENERGY CORPORATION WEDGE GAS PLANT (K-600)				
CONSULTANT: BDR ENGINEERING LTD.			LSD: 05-07-62-06 W5M JOB No.: 050442	
DRWN BY: DRO	DESIGN BY: DRO	DATE: 05/04/06	DWG. No.	OP#
DATE: 05/04/06	CHKD BY:	DATE:	GA050442 PG2/3	10
SCALE: 1:30	APPVD BY:	DATE:		



3D VIEW

2	AS BUILT	05/12/06	MGN	JLE
1	FOR CONSTRUCTION	05/05/17	DRO	DRO
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
BPX Compression 4700 47 Street SE Calgary AB Canada T2B 3H1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367 www.enertec.com TITLE: 3D VIEW ARIEL JGK/4, CATERPILLAR 3516TALE, AIR-X-HEMPHILL 144ZF COMPRESSOR PACKAGE FOR: FORT ENERGY CORPORATION WEDGE GAS PLANT (K-600) CONSULTANT: BDR ENGINEERING LTD. LSD: 05-07-62-06 WSM JOB No.: 050442				
DRWN BY: DRO	DESIGN BY: DRO	DATE: 05/04/06	DWG. No.	OP#
DATE: 05/04/06	CHKD BY:	DATE:	GA050442 PG3/3	10
SCALE: 1:30	APPVD BY:	DATE:		

STAGE 1 ST. GYM CYCLONE VORTEX CLUSTER STAGE 2 SUCTN SCRUBBER STAGE 3 SUCTN SCRUBBER STAGE 4 SUCTN SCRUBBER STAGE 5 SUCTN SCRUBBER STAGE 6 SUCTN SCRUBBER STAGE 7 SUCTN SCRUBBER STAGE 8 SUCTN SCRUBBER STAGE 9 SUCTN SCRUBBER STAGE 10 SUCTN SCRUBBER



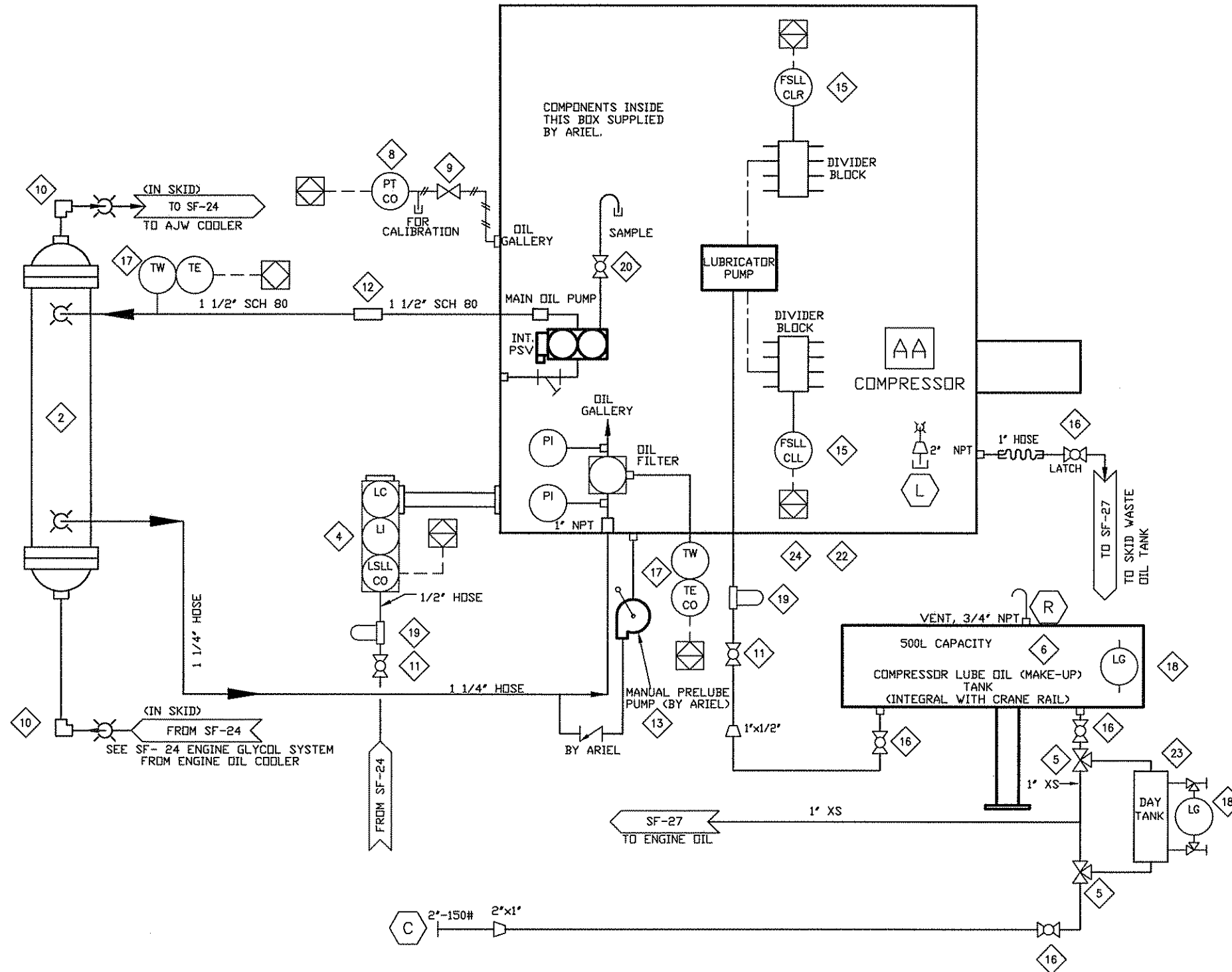
IC1 (E-401-A)
IC2 (E-401-B)
IC3 (E-401-C)
AC SECTION
ENGINE S/N: 4EK4653
COMPRESSOR FRAME S/N: F22381

BILL OF MATERIAL

ITEM	QTY	EFX CODE	DESCRIPTION
10	5	108004	VALVE, NEEDLE, 3/4" NPT X 1/2" FNPT, CS, [CENTURY, CM11L-3-M4T-CN-T-SF100]
20	8	124360	VALVE, BALL, 1/2" NPT, 3000# WOG, RP, CS C/W LOCKING HANDLE [NUTRON, T3-F053308]
30	1	NPN-REQ	VALVE, CONTROL, 6" 300#RF, FISHER V200 WITH DVC6020 C/W FIELD VIEW POSITIONER AND ACTUATOR.
40	5	102050	VALVE, BALL, 1/4" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R02520A]
100	5	102820	VALVE, BALL, 1/2" NPT, 2000# WOG, RP, CS C/W LOCKING HANDLE [NUTRON, T3-F05320B]
110	10	101205	SWITCH, LEVEL, 2" NPT, 303SS BODY, CSA C/W FLOAT [SOR, 1510B-G2A-C-W3-ES-CS]
120	5	103693	VALVE, SET GAUGE, SWEET, 1/2" FNPT X 3/4" NPT, CS, 3470# [DANIEL, 1S]
130	3	103650	GAUGE, LEVEL, CS WITH REFLEX FLAT GLASS, 1820# [DANIEL, 71RL]
134	1	103650	GAUGE, LEVEL, CS WITH REFLEX FLAT GLASS, 1820# [DANIEL, 71RL]
135	2	NPN-REQ	MAGNETIC LEVEL GAUGES
136	1	NPN-REQ	LEVEL GAUGE TANKS WITH 4" 300# FLANGE CONNECTION.
137	1	NPN-REQ	LEVEL GAUGE TANKS WITH 4" 600# FLANGE CONNECTION.
140	5	104872	REGULATOR, 1/4" NPT, ALUM, 0-125#, TAPPED (W/O PI) [FISHER, 87CFR-801/SPEC]
150	5	107925	GAUGE, PRESSURE, CS, 2" DRY, 0-60 PSI DUAL, 1/4" NPT [MKA, 111.10]
160	7	NPN-REQ	ASCO SOLENOID, 3-WAY, 24VDC, CSA, XP, E7B3206202-24, SUPPLIED BY CONTROL PANEL.
180	12	112801	VALVE, BALL, 1" NPT, 3000# WOG, RP, CS C/W LOCKING HANDLE [NUTRON, T3-R105308]
190	5	104854	VALVE, CONTROL, 1" NPT, LCC, FLOW ADJ, FC, NACE, 0-35# [FISHER/FLOPRO, D2-X1]
200	2	106485	FLANGE, RF SCRD, 1-1/2" 300# SA105N
210	3	102856	VALVE, GLOBE, 1-1/2" NPT, 800# WOG, CS [HEWCO, 28T-F50]
220	3	109946	VALVE, CHECK, PISTON, 1-1/2" NPT, 800# WOG, CS [NAVCO, CP-R15508AB]
225	2	109945	VALVE, CHECK, PISTON, 1" NPT, 800# WOG, CS [NAVCO, CP-R10508AB]
230	1	104280	STRAINER, CONE, 6" 300# CS, 40 MESH, 100% FLOW AREA
240	2	105728	***ORIFICE PLATE, TYPE 520, 316SS, 1/8" THK, 10" 300#
250	3	117067	THERMOWELL, 316SS, 1/2" X 3/4" NPTM X 6" LONG, U=4 [MKA, BQ-34-4.5-R/L-500]
260	3	118225	GAUGE, TEMP, 5" DIAL LF, 6" STEM, 0-250 DEG F DUAL ADJUSTABLE [TRENDS, SF52060]
270	2	105728	***ORIFICE PLATE, TYPE 520, 316SS, 1/8" THK, 10" 300#
280	4	114188C	TWELL, 316SS, 1/8" X 1/2" NPT, 1/4" FNPT PRESSURE PORT, U=2.625", 1650 WAMP
290	4	117910B	T-COUPLE, K TYPE, 316SS, 7.5" [THERMOWELLS, K125-316S0007.5682X000-0048-89]
310	3	113274	THERMOWELL, 304SS, 1/2" X 3/4" NPTM X 4" LONG, U=2.25", 260" BORE, STEPPED
320	3	124468	GAUGE, TEMP, 5" DIAL LF, 4" STEM, 50-500 DEG F DUAL ADJUSTABLE [TRENDS, SF52040, AD104MSF]
330	1	NPN-REQ	STAGE 1 DISCHARGE PSV VALVE, 2"-300#RF X 3"-150#RF SET @ 635psig (FARRIS, 28FA12-120/00)
340	3	123380	THERMOCOUPLE, K TYPE 316SS, 1/4" [THERMOWELLS, K250-316-S-010.0-B-82X-YM4-72]
345	3	124346	THERMOWELL, 304SS, 1/2" X 3/4" NPTM X 9" LONG, U=7.5", 260" BORE, STEPPED
350	5	NPN-REQ	TRANSDUCER, I/P, 4-20MA INPUT, 6-30PSIG OUTPUT, XP, [PANEL SUPPLIED]
360	3	100315	***ACTUATOR, 6-30 PSIG, SUPPLIED WITH COOLER [GARZO, 501-12]
370	2	107929	GAUGE, PRESSURE, BM, 4" LF, 0-600 PSI DUAL, 1/2" NPT [MKA, 233.54]
380	1	104282	STRAINER, CONE, 6" 600# CS, 40 MESH, 100% FLOW AREA
390	1	113543	***ORIFICE GASKET, TYPE CGL 316SS, 1/8" THK, 6" 600# C/W STAMPED HANDLE
400	1	105504	***ORIFICE PLATE, TYPE 520, 316SS, 1/8" THK, 6" 600#
410	3	114016	TRANSMITTER, GAUGE PRESSURE, 0-800 PSIG, CSA, [ROSEMOUNT, 2088G3S22A184C8]
420	1	NPN-REQ	STAGE 2 DISCHARGE PSV VALVE, 1.5"-600#RF X 2"-150#RF SET @ 1270psig (FARRIS, 28FA14-120/00)
430	4	112801	VALVE, BALL, 1" NPT, 3000# WOG, RP, CS C/W LOCKING HANDLE [NUTRON, T3-R105308]
435	2	102857	VALVE, BALL, 2" 600# RF, RP, CS C/W HANDLE [NUTRON, T3-R20R06B]
440	2	122843	VALVE, CONTROL, 1" NPT, LCC, 1/2" OR, FO, 0-33 PSI [FISHER, D4]
460	3	107884	GAUGE, PRESSURE, BM, 4" LF, 0-1000 PSI DUAL, 1/2" NPT [MKA, 233.54]
490	1	104246	STRAINER, CONE, 4" 900# RF, CS, 40 MESH, 100% FLOW AREA
500	1	113534	***ORIFICE GASKET, TYPE CGL 316SS, 1/8" THK, 4" 1500# RF C/W STAMPED HANDLE
510	1	105383	***ORIFICE PLATE, TYPE 520, 316SS, 1/8" THK, 4" 1500# RF
520	3	114015	TRANSMITTER, GAUGE PRESSURE, 0-4000 PSIG, NACE, CSA [ROSEMOUNT, 2088G3S22A184C8]
530	1	NPN-REQ	STAGE 3 DISCHARGE PSV VALVE, 1.5"-900#RF X 2 1/2"-300#RF SET @ 1330psig (FARRIS, 28FA14-120/00)
570	6	102856	VALVE, BALL, 3" 600# RF, RP, CS C/W HANDLE [NUTRON, T3-R30R06B]
580	2	123562	VALVE, CONTROL, 3" 600# RF, WOG, 3 7/16, FO, 0-30 PSI [FISHER, 657-ET-45]
600	5	102808	VALVE, NEEDLE, 1/4" TUBE, 316SS [WHITEY, SS-TY54]
610	1	109128	SPECTACLE BLIND, 4" 600# RF, SA516-70M, 5/8" THK
620	1	102977	VALVE, BALL, 4" 600# RF, RP, CS, BOLTED BODY C/W HANDLE [NUTRON, D3-R40R06B]
630	1	113527	***ORIFICE GASKET, TYPE CGL 316SS, 1/8" THK, 3" 3/4" 600# C/W STAMPED HANDLE
640	1	105286	***ORIFICE PLATE, TYPE 520, 316SS, 1/8" THK, 3" 600# RF
650	5	113532	***ORIFICE GASKET, TYPE CGL 316SS, 1/8" THK, 4" 600# RF C/W STAMPED HANDLE
660	1	113785	***ORIFICE GASKET, TYPE CGL 316SS, 1/8" THK, 6" 300# RF C/W STAMPED HANDLE
BILL OF MATERIAL: W 050442-50 : Discharge-Stage 2			
DATE-TIME EXPORTED: 2005-04-12-10:32			

NOTE:
1. ALL VALVES ARE TO BE ABOVE GRATING.

2	AS BUILT	05/12/09	MGN	JLE
1	ISSUE FOR CONSTRUCTION	05/08/09	DH	JLE
0	ISSUE FOR APPROVAL	05/04/09	MGN	DB
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
EFX Compression				
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367				
www.enreflex.com				
TITLE: PROCESS & INSTRUMENTATION DIAGRAM ARIEL JGK/4, CAT.3516 TALE, AIR-X-144ZF				
FOR: FORT ENERGY CORPORATION WEDGE GAS PLANT (K-600)				
CONSULTANT: BDR ENGINEERING				
P.O. BOX 10000, CALGARY, ALBERTA T2C 1E5				
LSD: 05-07-62-06-W5M				
JOB No.: 050442				
DRAWN BY: MGN	DESIGN BY: MGN	DATE: 05/04/09	DWG. No.	OP#
DATE: 05/04/09	DATE: 05/04/09	DATE: 05/04/09	PF-050442-50	50
SCALE: NTS	APPVD BY: [Signature]			



BILL OF MATERIAL

TEM	QTY	EFX CODE	DESCRIPTION
2	1	104966	COOLER, LUBE OIL (THERMAL TRANSFER, EK-1024-03)
4	1	107966	CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH, XP, CSA & BRACKET (KENC0, LCE-24)
5	2	121893	VALVE, BALL, 3-WAY, 1" NPT, FULL SS, 800 PSI C/W LOCKING HANDLE (MAS, G4)
6	1	110094	>>TANK, LUBE OIL MAKEUP, COMPRESSOR, INTEGRAL WITH CRANE RAIL PER EFX CRANE DWG
8	1	107987	TRANSMITTER, PRESSURE, 0-100 PSIG, SWEET, 1/4" NPT (VIKA, 89213.500)
9	1	102802	VALVE, PLUG, 1/4" TUBE, 316SS (NUPRO, SS-4P4T)
10	2	101244	COUPLING, ELBOW, 90 DEG, 2", STYLE 90 (DRESSER, 0090-0245-082)
11	2	102949	VALVE, BALL, 1/2" NPT, 2000# WDG, RP, 316SS, NACE C/W (NAVCO, CI-R05320A)
12	1	101240	COUPLING, ELBOW, 90 DEG, 1-1/2", STYLE 90 (DRESSER, 0090-0244-082)
13	1	115371	PUMP, MANUAL LUBE OIL PRIMING (MOUNTED) (ARIEL)
15	2	112860	SWITCH, DIGITAL NO-FLDW, PROGRAMMABLE, WHITLOCK DNFT-LED-PRG (ARIEL, A-10754)
16	3	102937	VALVE, BALL, 1" NPT, 2000# WDG, RP, 316SS, NACE C/W LOCKING (NAVCO, CI-R10S20A)
17	2	112330	***T*COUPLE ASSY C/W T*WELL, 304SS, 3/4" NPT, 60" (VIKA, A18113-T02-U-14-60"-K-3)
18	2	115052	INDICATOR, LEVEL, SIGHT GLASS WINDOW, 10" BOLT CENTERS, (MP FILTRI, LVA 30 TA)
19	2	121735	FILTER, ASSEMBLY, OIL, 1/2" NPT, 25 MICRON C/W SF-6510 (KINECOR, SAF-05-00-0)
20	1	102950	VALVE, BALL, 1/4" NPT, 2000# WDG, RP, 316SS, NACE C/W (NAVCO, CI-R02320A)
21	1	117547	WIRE SUPPORT, COMPRESSOR VIBRATION SENSOR (AGS, W13750153492001)
22	1	117546	WIRE SUPPORT, COMPRESSOR SIDE (AGS, W11350346452001)
23	1	NPN-REQ	20 GALLON OIL TANK, PER EFX DRAWING

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
4	AS BUILT	05/12/06	MGN	JLE
3	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
2	ADD OIL TANK	05/05/24	MGN	DB
1	ISSUE FOR CONSTRUCTION	05/05/03	MGN	DB
0	ISSUE FOR APPROVAL	05/04/29	MGN	DB

EFX Compression

4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel: +1.403.236.6800 Fax: +1.403.279.0367
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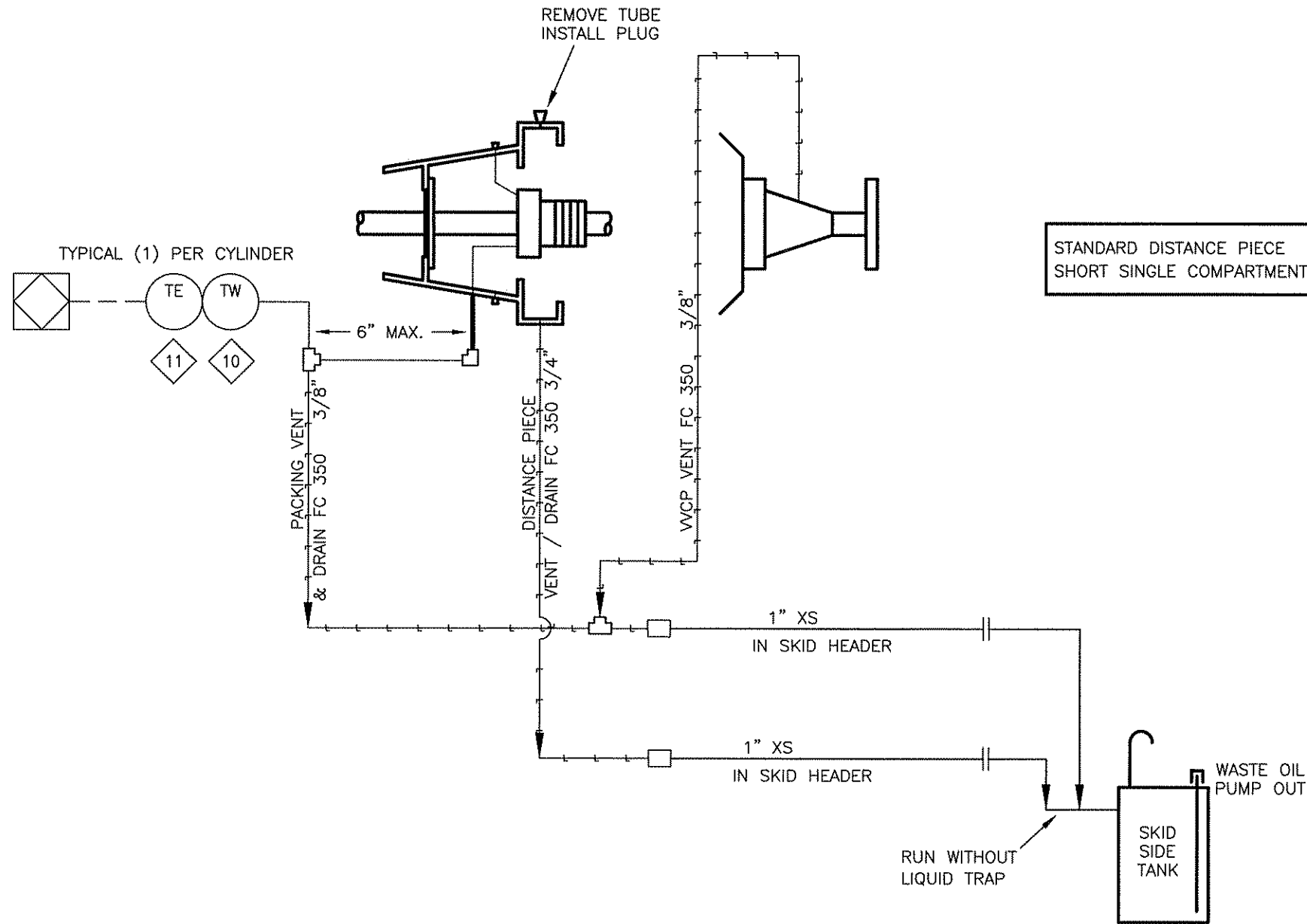
TITLE: **SERVICE FLOW
COMPRESSOR OIL SYSTEM-JGK/4 FRAME**

FOR: **FORT ENERGY CORPORATION
WEDGE GAS PLANT (K-600)**

CONSULTANT: BDR ENGINEERING LSD: 05-07-62-06-W5M
P.O.: - JOB No.: 050442

DRWN BY: MGN	DESIGN BY: DB	DATE: 05/04/28	DWG. No.	OP#
DATE: 05/04/29	CHKD BY: DB	DATE: -	SF-050442-20	20
SCALE: NTS	APPVD BY: [Signature]	DATE: -		

P:\Projects\custom\050442\Pid\SF-050442-21.dwg Dec 09, 2005 - 8:19am



MATERIAL LIST			
ITEM	QTY	PART #	DESCRIPTION
10	3	116701	THERMOWELL, 316SS, 1/2" X 1/2" NPTM X 2-1/2" LONG, U=1", 260" BORE, STEPPED
11	3	114007	THERMOCOUPLE, K TYPE, 316SS, (THERMOKINETICS, K125-316S-0040B-82SYT2)

NOTE

1. PACKING FAILURE SENSOR(S), SHOULD BE SET TO 200°F SHUTDOWN FOR NEW PACKING. AFTER PACKING IS BROKEN IN, SHUTDOWN TEMPERATURE IS TO BE ADJUSTED TO 150% (OR 200°F MAX) OF NORMAL OPERATING TEMPERATURE. (ONE PER CYLINDER)
2. OIL SEAL POT AND VACUUM PUMP ASS'Y REQUIRED WHEN CUSTOMER CONNECTING TO FLARE SYSTEM

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
2	AS BUILT	05/12/09	MGN	JLE
1	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
0	ISSUE FOR APPROVAL	05/04/11	MGN	DB

EFX Compression
ENERFLEX

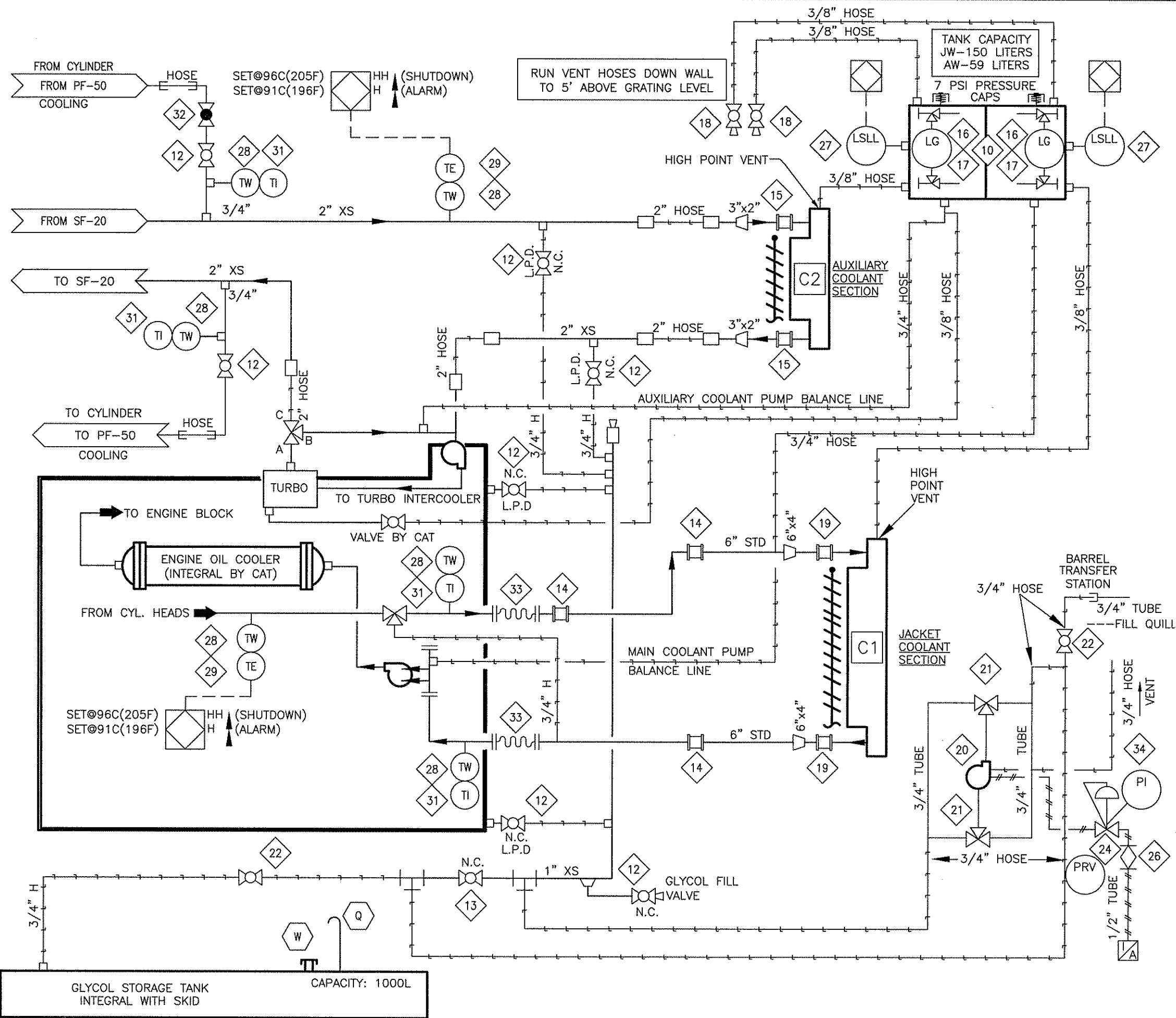
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1403.236.6800 Fax +1403.279.0367
www.enerflex.com

TITLE: **SERVICE FLOW
PACKING VENT & DRAIN SYSTEM 0<H2S<100 PPM**

FOR: **FORT ENERGY CORPORATION
WEDGE GAS PLANT (K-600)**

CONSULTANT: BDR ENGINEERING
P.O.: **LSD: 05-07-62-06-W5M
JOB No.: 050442**

DRWN BY: MGN	DESIGN BY: DB	DATE: 05/04/08	DWG. No.	OP#
DATE: 05/04/11	CHKD BY: DB	DATE:	SF-050442-21	21
SCALE: NTS	APPVD BY:	DATE:		



BILL OF MATERIAL

ITEM	QTY	PART #	DESCRIPTION
10	1	113683B	TANK, SURGE, 2-COMPARTMENT, 150/59L, A1445/A1478 AS PER DRAWING
12	7	102926	VALVE, BALL, 3/4" NPT, 2000# WDG, RP, CS, NACE C/W LOCKING (NUTRON, T3-R07S20S)
13	1	102928	VALVE, BALL, 1" NPT, 2000# WDG, RP, CS, NACE C/W LOCKING (NUTRON, T3-R10S20SL)
14	3	101238	COUPLING, STRAIGHT, 6", STYLE 38 (DRESSER, 0038-0057-011)
15	2	101235	COUPLING, STRAIGHT, 3", STYLE 38 (DRESSER, 0038-0187-011)
16	2	103698	VALVE, SET GAUGE, SWEET, 5/8"OD TUBULAR x 1/2"MNPT, CS, 500# (DANIEL ITC)
17	2	101257	5/8"OD TUBULAR GAUGE GLASS (CUT TO SUIT)
18	2	102904	VALVE, BALL, 3/8" NPT, 2000# WDG, FP, CS C/W LOCKING HANDLE (NUTRON, T3-F03S20B)
19	2	101236	COUPLING, STRAIGHT, 4", STYLE 38 (DRESSER, 0038-0036-011)
20	1	107477	PUMP, DIAPHRAGM, 1/2" NPT, ALUMINUM, BUNA, #01-10001 (WILDIEN, T1/ATYB/BN/ABN)
21	2	121379	VALVE, BALL, 3-WAY, 3/4" NPT, FULL SS, 800 PSI C/W LOCKING HANDLE (MAS, G4)
22	2	102973	VALVE, BALL, 3/4" NPT, 2000# WDG, RP, 316SS, NACE C/W (NAVCO, CI-R07S20A)
24	1	104872	REGULATOR, 1/4" NPT, ALUM, 0-125#, TAPPED (V/D P) (FISHER, 67CFR-601/SPEC)
26	1	102801	VALVE, PLUG, 3/8" TUBE, 316SS (NUPRO, SS-6P4T)
27	2	104507	SWITCH, LEVEL, 1-1/2" NPT, XP, CSA, 316SS BODY, SDUR C/W SS (MURPHY, L1100SSSF)
28	6	115504	THERMOWELL, 316SS, BTB STYLE 5B, 1/2" X 3/4" NPTM, U=2.5", .203" BORE
29	2	117910B	T-COUPLE, K TYPE, 316SS, 7.5" (THERMOKINETICS, K125-316S0007.5B82X000-0048-99)
31	4	107940	GAUGE, TEMP, 3" DIAL, 4" STEM, 0-250 DEG F DUAL, 1/2" NPT (TREND, 33040)
32	1	113263	VALVE, GLOBE, 1" 300# RF, CS, SWEET (NAVCO, GL-R10R03A8)
33	2	121261	EXPANSION, JOINT, RUBBER, 6" X 150# RF (RAILMEX, R-711)
34	1	107894	GAUGE, PRESSURE, CBM, 2" DRY, 0-200 PSI DUAL, 1/4" NPT (VIKA, 111.10)

ENGINE WATER CAPACITY
205 LITRES (54 GAL)

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
3	AS BUILT	05/12/08	MGN	JLE
2	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
1	ISSUED FOR CONSTRUCTION	05/04/29	MGN	DB
0	ISSUED FOR CONSTRUCTION	05/05/02	MGN	DB

EFX Compression
ENERFLEX

4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel: +1.403.236.6800 Fax: +1.403.279.0367
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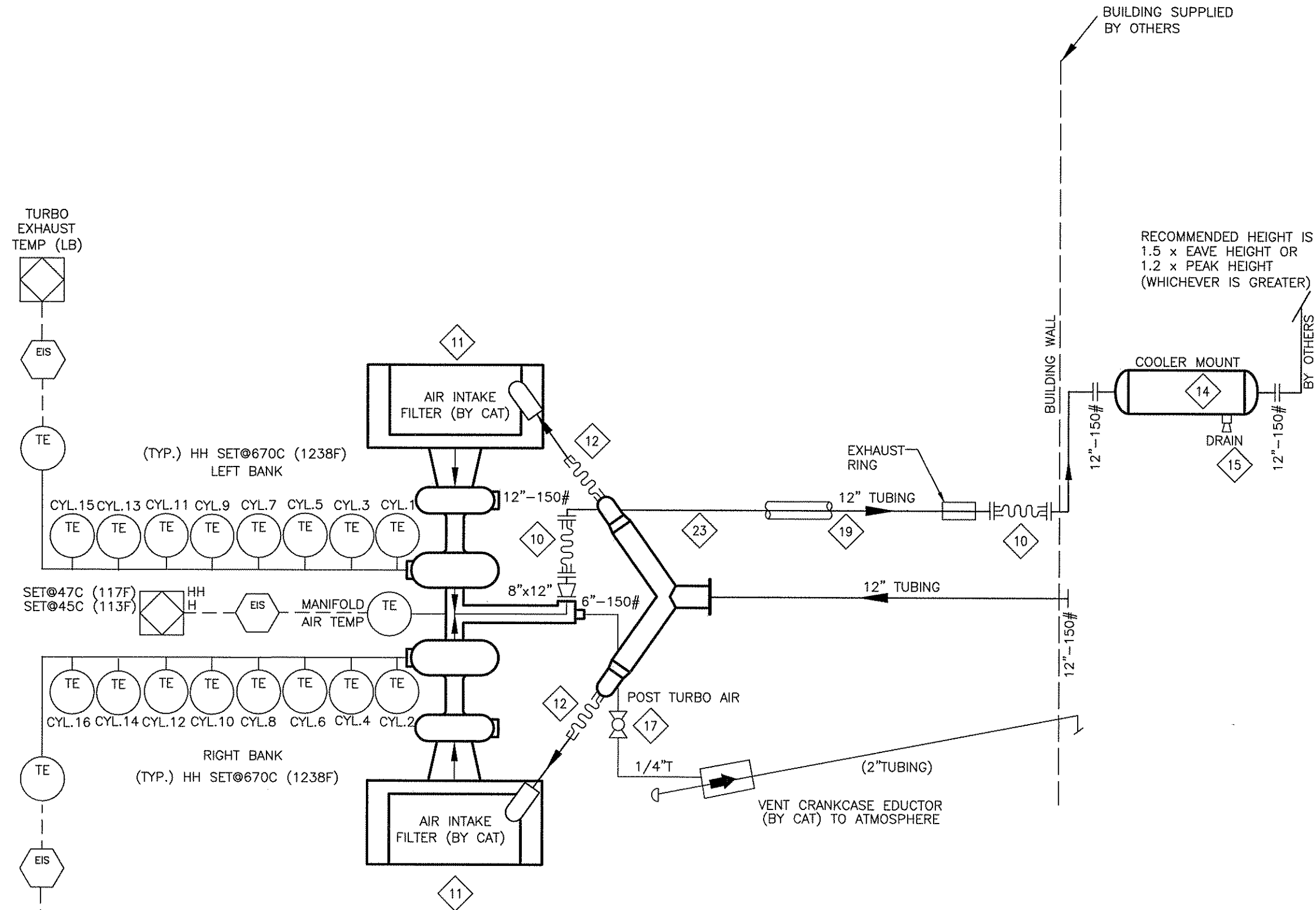
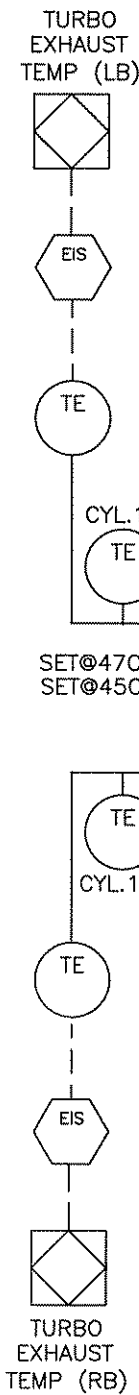
TITLE: **SERVICE FLOW
ENGINE GLYCOL SYSTEM**
ARIEL JGK/4, CAT. G3516TALE, AXC 144ZF

FOR: **FORT ENERGY CORPORATION
WEDGE GAS PLANT (K-600)**

CONSULTANT: BDR ENGINEERING
P.O.: **LSO: 05-07-62-06-W5M
JOB No.: 050442**

DRWN BY: MGN	DESIGN BY: DB	DATE: 05/04/05	DWG. No.	OP#
DATE: 05/04/06	CHKD BY: DB	DATE:	SF-050442-24	24
SCALE: NTS	APPVD BY:	DATE:		

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BILL OF MATERIAL

ITEM	QTY	EFX CODE	DESCRIPTION
10	2	104682	"EXPANSION BELLOW, 12" 150# INTERNAL FLANGES C/W 2" COLLAR & SS LINER X 12" LONG"
11	2	NPN-REQ	AIR FILTER BOX SUPPLIED BY CAT
12	2	112314	"HOSE, STRAIGHT, RUBBER, 12" ID [GOODYEAR, WD75-192]"
13	30	104562	EXHAUST TUBING, MECHANICAL, 12" OD X 10 GAUGE (.134" WALL), ERW"
14	1	NPN-REQ	"JE12-SISO - REACTIVE, SUPER HOSPITAL PLUS (40-55dBA)12.0", SIDE IN/SIDE OUT (SILEX)
15	1	NPN-REQ	MUFFLER SUPPORT BUILT BY ENERFLEX
17	1	102950	"VALVE, BALL, 1/4" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R02S20A]"
19	20	122061	"***INSULATION, FOR 12" 150# SS EXHAUST LINE, NO AIR SPACE, CUSTOM"
20	1	NPN-REQ	"EXPANSION BELLOW, 8"-150#, SUPPLIED BY CAT"
23	20	104561	"EXHAUST TUBING, MECHANICAL, 12" ID X 11 GAUGE (.125" WALL), 316LSS"
42	2	112185	"ELBOW, EXHAUST, 90 DEG, SR, 12" OD, 10 GAUGE, CS"

Exhaust (B25)			
DATE-TIME EXPORTED: 2005-05-18-13.34			

NOTE:

1. MAXIMUM PERMISSIBLE BACK PRESSURE (1775 BHP @1000 RPM IS 12".00 INCHES H2O)

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
5	AS BUILT	05/12/08	MGN	JLE
4	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
3	ADD ONE ITEM #10/UPDATED DRAWING	05/06/22	DRO	
2	UPDATE BOM	05/05/19	MGN	DB
1	ISSUED FOR CONSTRUCTION	05/04/27	MGN	DB
0	ISSUED FOR APPROVAL	05/04/13	MGN	DB

EFX Compression

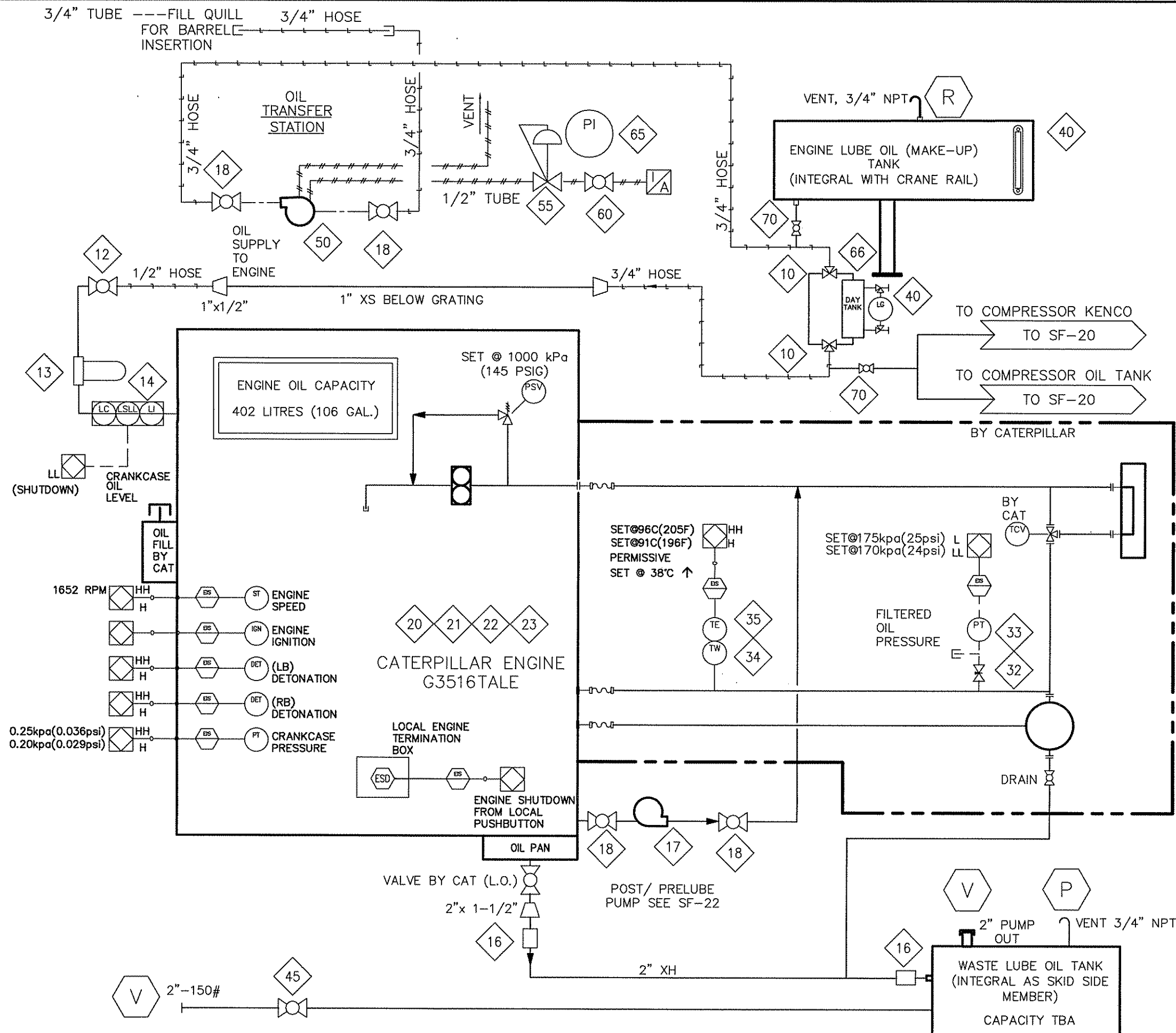
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE: SERVICE FLOW
AIR & EXHAUST SYSTEMS
ARIEL JGK/4, CAT. G3516 TALE, AXC 144ZF

FOR: FORT ENERGY CORPORATION
WEDGE GAS PLANT (K-600)

CONSULTANT: BDR ENGINEERING
P.O.: LSD: 05-07-62-06-W5M
JOB No.: 050442

DRWN BY: MGN	DESIGN BY: DB	DATE: 05/04/11	DWG. No.	OP#
DATE: 05/04/13	CHKD BY: DB	DATE:	SF-050442-26	26
SCALE: NTS	APPVD BY:	DATE:		



BILL OF MATERIAL

ITEM	QTY	EFX CODE	DESCRIPTION
10	2	121893	VALVE, BALL, 3-WAY, 1" NPT, FULL SS, 800 PSIG (MAS G-4)
12	1	102949	VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R05S20A]
13	1	121735	FILTER, ASSEMBLY, OIL, 1/2" NPT, 25 MICRON, C/W SF6310 [KINECOR, SAF-05-00-0]
14	1	107968	CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH, XP, CSA C/W DOOR MT [KENCO, LCE-17]
16	2	101245	COUPLING, STRAIGHT, 2", STYLE 90 [DRESSER, 0090-0005-082]
17	1	107478	PUMP, DIAPHRAGM, 1"NPT, ALUMINUM, BUNA, #02-10001 [WILDEN T2A]
18	4	102926	VALVE, BALL, 3/4" NPT, 2000# WOG, RP, CS, NACE C/W LOCKING [NUTRON, T3-R07S20S]
20	1	NPN-REQ	>>IGNITION SYSTEM, BY CAT, CSA CLASS1, DIV2
21	1	NPN-REQ	>>HARNESS, IGNITION SYSTEM, CSA CLASS1, DIV2, BY CAT
22	1	NPN-REQ	>>THERMOCOUPLE ASS'Y, TYPE K, 3/4" NPT, 2-1/2" INSERTION, BY CAT
23	1	NPN-REQ	>>HARNESS, K TYPE THERMOCOUPLE, BY CAT
32	1	102808	VALVE, NEEDLE, 1/4" TUBE, 316SS [WHITEY, SS-1VS4]
33	1	112325	TRANSMITTER, PRESSURE, 0-160 PSIG, SWEET, 1/4" NPT [WKA, 892.13.500]
34	1	115504	THERMOWELL, 316SS, BTB STYLE 5B, 1/2" X 3/4" NPTM, U=2.5", .203" BORE
35	1	1179109	X-THERMOCOUPLE, K TYPE, 316SS [THERMOKINETICS, K125-316-S-007.5-B-82X000-0048]
40	1	115052	INDICATOR, LEVEL, SIGHT GLASS WINDOW, 10" BOLT CENTERS, [MP FILTR, LVA 30 TA]
45	1	102951	VALVE, BALL, 2" NPT, 2000# WOG, RP, 316SS, NACE C/W LOCKING [NAVCO, C1-R20S20A]
50	1	107477	PUMP, DIAPHRAGM, 1/2" NPT, ALUMINUM, BUNA, #01-10001 [WILDEN, T1/AYTB/BN/BN/ABN]
55	1	104872	REGULATOR, 1/4" NPT, ALUM., 0-125#, TAPPED (W/O PI) [FISHER, 67CFR-601/SPEC]
60	1	102949	VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R05S20A]
65	1	107897	GAUGE, PRESSURE, BM, 4" LF, 0-2000 PSI DUAL, 1/2" NPT [WKA, 233.54]
66	1	NPN-REQ	2 GALLON OIL TANK, AS PER EFX DRAWING
70	2	102937	VALVE, BALL, 1" NPT, 2000# WOG, RP, 316SS, NACE C/W LOCKING [NAVCO, C1-R10S20A]

NOTE:

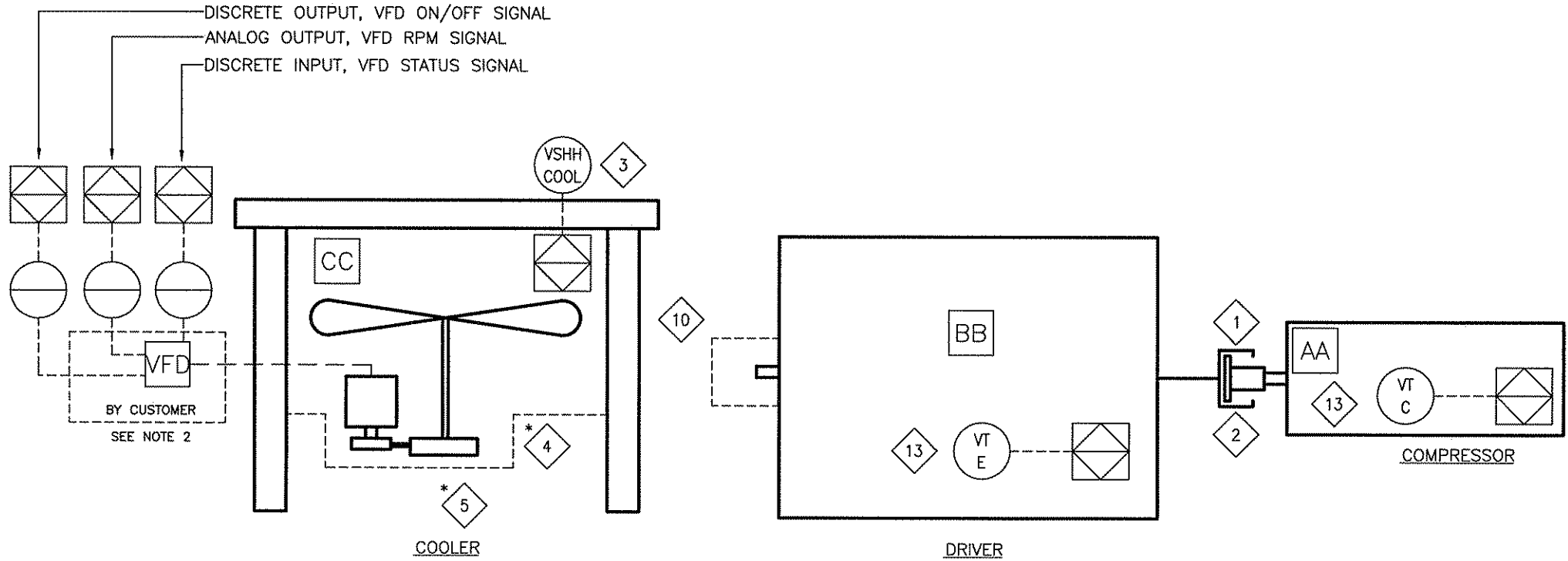
1. 1/2" PLUGGED SAMPLE POINTS TO BE PROVIDED.

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
4	AS BUILT	05/12/09	MGN	JLE
3	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
2	ADD OIL TANK	05/05/24	MGN	DB
1	ISSUED FOR CONSTRUCTION	05/05/03	MGN	DB
0	ISSUED FOR APPROVAL	05/04/29	MGN	DB

EFX Compression				
ENERFLEX				
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367 www.enerflex.com				
TITLE:		SERVICE FLOW ENGINE OIL ARIEL JGK/4, CAT. G3516 TALE, AXC 144ZF		
FOR:		FORT ENERGY CORPORATION WEDGE GAS PLANT (K-600)		
CONSULTANT: BDR ENGINEERING		LSD: 05-07-62-06-W5M JOB No.: 050442		
DRWN BY: MGN	DESIGN BY: BDR	DATE: 05/04/28	DWG. No.	OP#
DATE: 05/04/29	CHKD BY: BDR	DATE:		
SCALE: NTS	APPVD BY: BDR	DATE:	SF-050442-27	27

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DESCRIPTION	SHEAVE PICTH Ø	RPM
ENGINE SHAFT	TBD	TBD
JACK SHAFT	N/A	N/A
ENGINE END	N/A	N/A
COOLER END	N/A	N/A
IDLER	N/A	N/A
COOLER END	N/A	N/A
COOLER SHAFT	TBD	TBD
MOTOR SHAFT	TBD	TBD



BILL OF MATERIAL				
ITEM	QTY	EFX CODE	DESCRIPTION	
1	1	118598	COUPLING, ADAPTER PLATE 26.5" OD HD/SAE C/W STEEL HUB [FORMFLEX, FSH70-26B-GK]	
2	1	115047	GUARD, COUPLING, FIBERGLASS, ENERFLEX RED, PMS 188 AS PER QUOTE #01-143	
3	1	104524	SWITCH, VIBRATION, ELECTRIC C/W MANUAL RESET [MURPHY, VS2]	
4	1	NPN	COOLER DRIVE BELT GUARD	
5	1	NPN	BUSHINGS AND BELTS SUPPLIED BY COOLER MANUFACTURER , INFORMATION IN MANUAL	
10	1	NPN	ENGINE DRIVE BELT GUARD	
13	2	104786	TRANSMITTER, VIBRATION, 4-20MA 24VDC CSA IS CENELEC [METRIX, ST5484E-121-320-01]	

NOTE:
1. * SUPPLIED BY VENDOR
2. WIRING FROM PANEL TO CUSTOMER
VFD BY CUSTOMER.

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
4	AS BUILT	05/12/08	MGN	JLE
3	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
2	REVISED COUPLING	05/06/17	DRO	
1	ISSUED FOR CONSTRUCTION	05/04/27	MGN	DB
0	FOR APPROVAL	05/04/13	MGN	DB

EFX Compression
ENERFLEX

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TITLE: **SERVICE FLOW DRIVE TRAIN**
ARIEL JGK/4, CAT. 3516 TALE AIR X 144ZF
A1478 4STG (OP 28)

FOR: **FORT ENERGY CORPORATION**
WEDGE GAS PLANT (K-600)

CONSULTANT: BDR ENGINEERING
P.O.: -

LSD: 05-07-62-06-W5M
JOB No.: 050442

DRWN BY: MGN
DATE: 05/04/13
SCALE: NTS

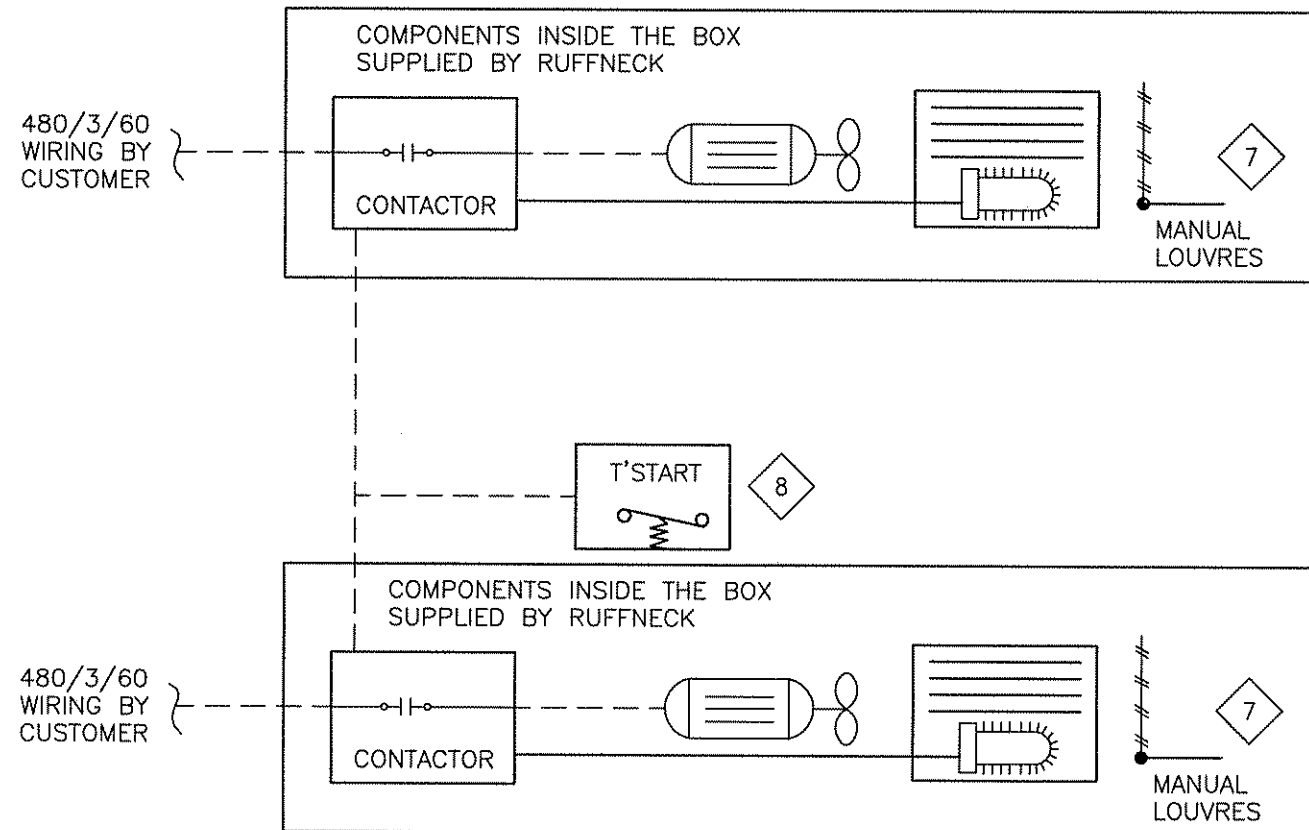
DESIGN BY: -
CHKD BY: DB
APPVD BY: -

DATE: -
DATE: -
DATE: -

DWG. No.
SF-050442-28

REV
28

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BUILDING EQUIPMENT AND CONTROLS

BILL OF MATERIAL

ITEM	QTY	EFX CODE	DESCRIPTION
7	2	104647	HEATER, ELECTRIC, 20 KW, 480V/3/60HZ, XP, CSA, RUFFNECK, FX416-480360-201
8	1	104651	THERMOSTAT, 5-25 DEG.C RANGE, 120/240V, XP, CSA, WALL MOUNT, CDEFENDER, XT-3113
			BILL OF MATERIAL: M BASE TEMPLATE + ASSEMBLY, HEATERS, A1478

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
2	AS BUILT	05/12/08	MGN	JLE
1	ISSUED FOR CONSTRUCTION	05/08/30	DH	JLE
0	ISSUED FOR APPROVAL	05/04/13	MGN	DB

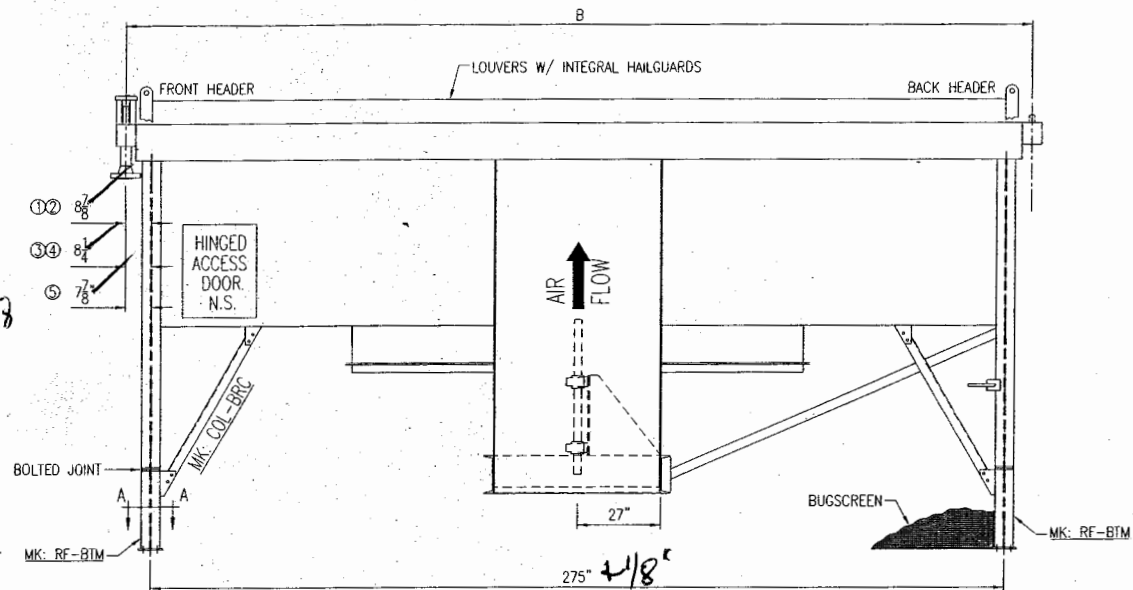
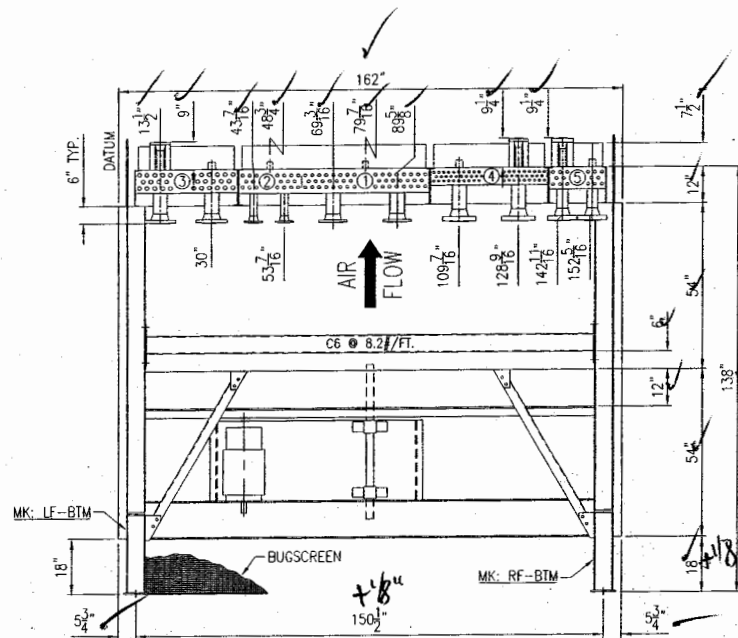
EFX Compression

ENERFLEX

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www.enerflex.com

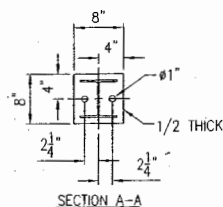
TITLE:		SERVICE FLOW BUILDING EQUIPMENT AND CONTROL A1478-4 STG (OP 72)		
FOR:		FORT ENERGY CORPORATION WEDGE GAS PLANT (K-600)		
CONSULTANT: BDR ENGINEERING		LSD: 05-07-62-06-W5M JOB No.: 050442		
DRWN BY: MGN	DESIGN BY: BB	DATE: --	DWG. No.	OP#
DATE: 05/04/13	CHKD BY: BB	DATE: --	SF-050442-72	72
SCALE: NTS	APPVD BY: BB	DATE: --		

ITEM	SERVICE	MAWP	CODE	NOZZLES		COUPLING	REF. DIMENSION		LOUVERS	BUG SCREEN	DRIVE	FAN	FINISH
				INLET	OUTLET	VENT/TEMP	B	C					
1	EJW (COMBINED) 52 GALS	14 PSI @ 300/-20°F	NONE	4-150# RFWN	4-150# RFWN	1-3000#	292.75	-	MANUAL	YES	ELECTRIC MOTOR DRIVE SHEAVES, BELTS, AND GUARDS BY AIR-X-HEMPHILL 50 HP, 1800 RPM, 3P, 60 HZ, 460V, TEFC, VFD, CSA ELECTRIC MOTOR	1440 MOORE 10K, 60 HD, VT 12-BLADE 11" PA, LH ROTATION 244 RPM @ 43 HP REQ'D Ø2.6875 BORE WITH .625 x .3125 KWY.	STRUCTURE STD. PRIMER W/ WARM GRAY ENAMEL TOP COAT FAN GUARD GALVANIZED
2	AUX-W (COMBINED) 26 GALS	14 PSI @ 300/-20°F	NONE	2-150# RFWN	2-150# RFWN	1-3000#	292.75	-					
3	IC-1	645 PSI @ 350/-40°F	ASME	4-300# RFWN	4-300# RFWN	2-300# RFWN 1-6000#	291.50	-					
4	IC-2	1292 PSI @ 350/-40°F	ASME	4-600# RFWN	4-600# RFWN	1.5-600# RFWN 1-6000#	291.50	-					
5	AC	1935 PSI @ 350/-40°F	ASME	3-900# RFWN	3-900# RFWN	1.5-900# RFWN 1-6000#	290.75	-	AUTO				



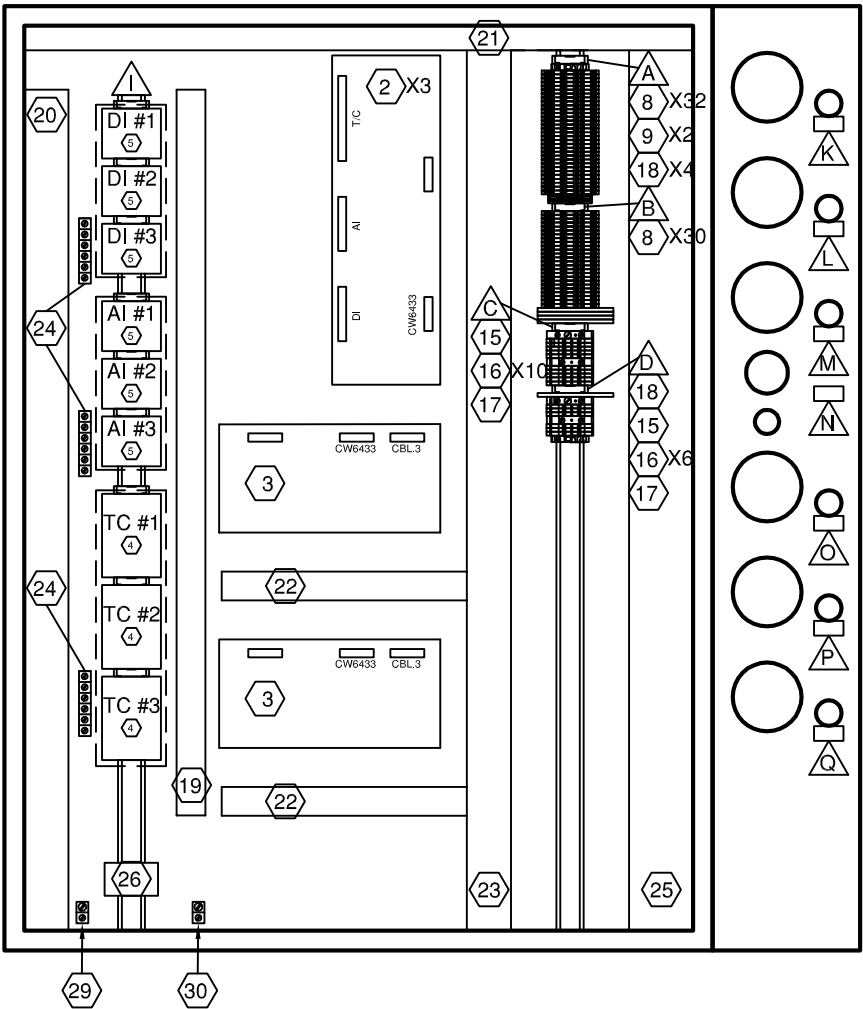
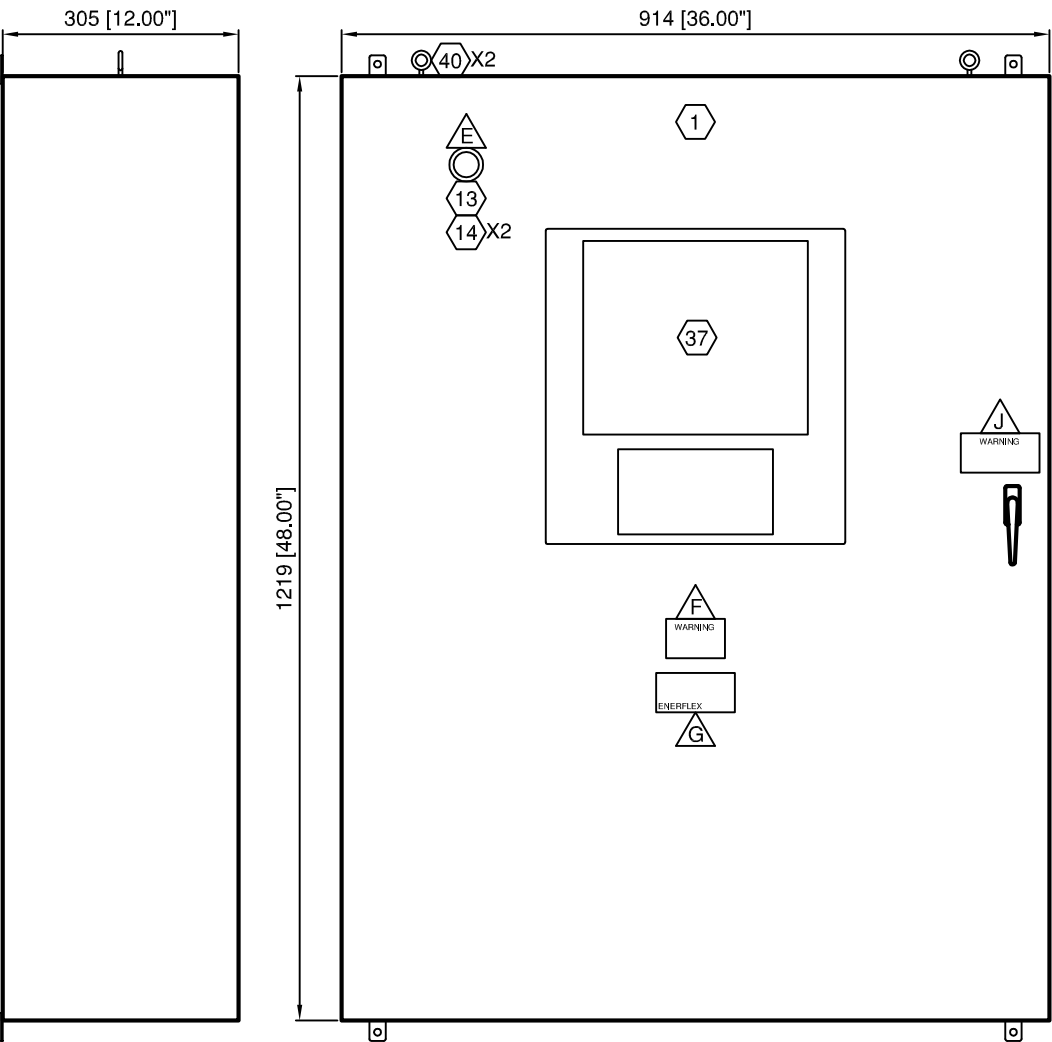
FAN
ROTATION

RELEASED
FABRICATION OF THIS
ORDER HAS BEGUN



						FOR: ENERFLEX	ESTIMATED DRY WEIGHT 19,100#
						P.O. NO: 0581224	 air-x-hemphill AXH air-coolers
						CUST. TAG: 050442	
						USER: TRIDENT EXP.	
						JOB SITE: AB, CANADA	
						JOB NO: 54098	CERTIFIED DRAWING FOR:
						WORK ORDER NO: -	MODEL 144 ZF QUANTITY: 1
						DR: LES DATE: 07/19/05	DWG. NO. 54098-CRT
						CK: M.B. DATE: 07/19/05	SCALE: FULL DATE: 07/19/05
REV	REVISION DESCRIPTION					BY	CK

Visual = Complete Paint 0109-17-05
 DWN1 = 0109-16-05 J.P.(us)



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MODEL #
1	1	ACE 48"x36"x12" ENCLOSURE c/w FEET	ACE483612
2	3	RC 2000 INPUT MODULE	CW4769-1
3	2	RC 2000 OUTPUT MODULE	CW5218-2
4	3	WIELAND. 40 PIN TERMINATION BLOCK	87.210.2208.3 (ENERFLEX SUPPLY)
5	6	WIELAND. 26 PIN TERMINATION BLOCK	87.210.2005.3 (ENERFLEX SUPPLY)
6	-	-	-
7	-	-	-
8	62	WDK 2.5 STACKED FEED THROUGH TERM.	102150
9	2	WEID. WPE 4 GROUND TERMINAL	101010
10	-	-	-
11	-	-	-
12	-	-	-
13	1	AB RED PUSH BUTTON	800T-FX6
14	2	N/C CONTACT BLOCK	800T-XD2P
15	2	WEID SAKS 1/35 FUSED TERMINAL	50162
16	16	WEID WDU 2.5 FEED THROUGH TERMINAL	102000
17	3	WEID WDU 10 FEED THROUGH TERMINAL	102030
18	5	WEIL. SLIM LINE RELAY	80.010.4000.0
19	LOT	1X2 GRAY PANDUIT	F1X2LG6
20	LOT	2X4 GRAY PANDUIT	F2X4LG6
21	LOT	1X2 WHITE PANDUIT	F1X2WH6
22	LOT	1X3 WHITE PANDUIT	F1X3WH6
23	LOT	2X3 WHITE PANDUIT	F2X3WH6
24	LOT	GROUND BAR	
25	LOT	3X3 WHITE PANDUIT	F3X3WH6
26	1	WEID. SPARE FUSE HOLDER	7914760001
27	-	-	-
28	-	-	-
29	1	ILSCO ISOLATED GROUND LUG	
30	1	ILSCO PANEL GROUND LUG	
31	-	-	-
32	-	-	-
33	LOT	TS-35 MOUNTING RAIL	38340
34	LOT	EW 35 END STOPS	38356
35	LOT	SCHT5s TERMINAL STRIP MARKERS	163193
36	-	-	-
37	1	CIMREX 10" TOUCH SCREEN c/w KEYPAD	RC2000-10T
38	-	-	-
39	-	-	-
40	2	LIFTING EYE HOOKS	BS12/312A
41			

LAMACOID SCHEDULE

ITEM	QTY	TEXT	SIZE
A	1	INCENDIVE I/O BOARD #1	SCHT5s
B	1	INCENDIVE I/O BOARD #2	SCHT5s
C	1	24 VDC DISTRIBUTION	SCHT5s
D	1	IGNITION DISTRIBUTION	SCHT5s
E	1	PANEL SHUTDOWN	1" X 3"
F	1	WARNING EXPLOSION HAZARD DO NOT REPLACE FUSES OR WIRES UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS	2" x 3" WHT/RED
G	1	ENERFLEX CSA LAMACOID	2" X 4"
H	-	-	-
I	1	NON-INCENDIVE I/O	SCHT5s
J	1	WARNING : DISCONNECT CABLE CONNECTION TO INPUT / OUTPUT BOARDS BEFORE WELDING	2" x 4" WHT/RED

LAMACOID SCHEDULE

ITEM	QTY	TEXT	SIZE
K	1	GOVERNOR	3/4" X 1.5"
L	1	BYPASS VALVE #1	3/4" X 1.5"
M	1	BYPASS VALVE #2	3/4" X 1.5"
N	1	FIRELOOP	3/4" X 1.5"
O	1	LOUVER 1 CONTROL VALVE	3/4" X 1.5"
P	1	LOUVER 2 CONTROL VALVE	3/4" X 1.5"
Q	1	LOUVER 3 CONTROL VALVE	3/4" X 1.5"

LEGEND

- 1. PANEL WIRING
- 2. FIELD WIRING
- 3. UNFUSED TERMINAL
- 4. FUSED TERMINAL
- 5. FEED THROUGH TERMINAL
- 6. DISCONNECT TERMINAL

WIRE COLOR LEGEND

- 1. +24VDC: RED
- 2. -24VDC: YELLOW
- 3. SWITCHED: ORANGE
- 4. ANALOG INPUT/OUTPUT - : BLACK
- 5. ANALOG INPUT/OUTPUT + : WHITE
- 6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC				
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC				
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC				
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd			

Project Title

FORT ENERGY C/O TRIDENT
RC10355

Drawing Title

CONTROL PANEL
PANEL LAYOUT

Syntech

Syntech
Drawing Number

5190158-01

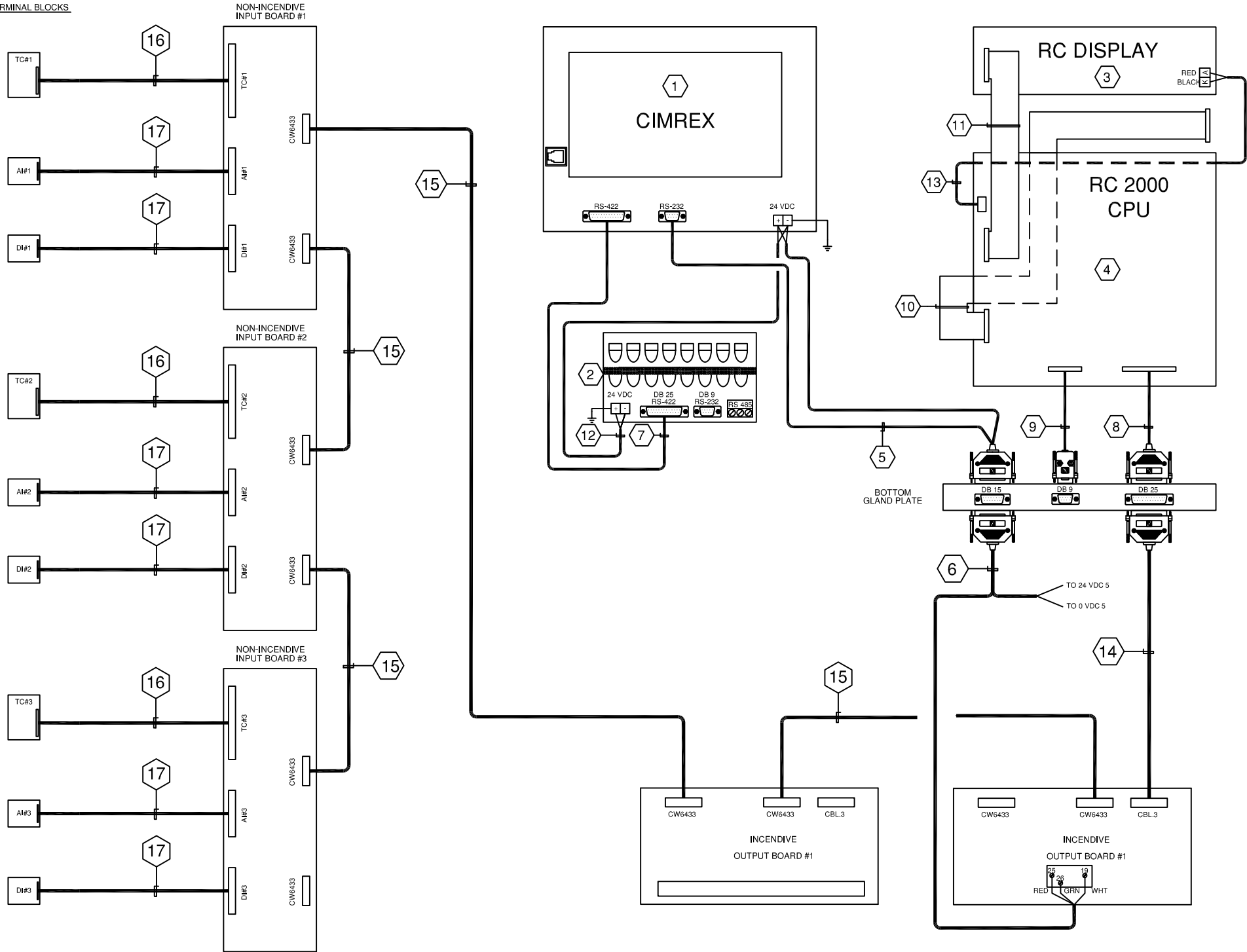
1 of 1

Customer
Drawing Number

050442

NTS

I/O TERMINAL BLOCKS



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MODEL #
1	1	CIMREX 10" TOUCH SCREEN	CIMREX 91D
2	1	KEYPAD	CKEY16
3	1	RC DISPLAY MODULE	CW-2873
4	1	RC 2000 CPU MODULE	CW-5157-2
5	1	CIMREX POWER AND DATA CABLE	CA-2503
6	1	PANEL POWER AND DATA CABLE	CA-2501
7	1	KEYPAD CABLE	CA-2502
8	1	CBL-2 MODBUS 16 CABLE	CA-2500
9	1	CBL-1 MODBUS 22 CABLE	CA-2504
10	1	KEYPAD EXTENSION RIBBON CABLE	A9BAG-1508F-ND
11	1	CUSTOM DISPLAY DATA RIBBON CABLE 9"	SYNTECH
12	1	TWO WIRE BELDON CABLE 12"	SYNTECH
13	1	TWO WIRE BELDON CABLE 16"	SYNTECH
14	1	CABLE COMM 144" RC2000	CW6926/144
15	4	CABLE 9 PIN MODBUS	CW6433/14
16	3	CABLE 40 PIN 43" THERMOCOUPLE	CW6453/43
17	6	CABLE 26 PIN 10"	CW6449/10
18	-	-	-

LEGEND

- 1. PANEL WIRING
- 2. FIELD WIRING
- 3. UNFUSED TERMINAL
- 4. FUSED TERMINAL
- 5. FEED THROUGH TERMINAL
- 6. DISCONNECT TERMINAL

WIRE COLOR LEGEND

- 1. +24VDC: RED
- 2. -24VDC: YELLOW
- 3. SWITCHED: ORANGE
- 4. ANALOG INPUT/OUTPUT - : BLACK
- 5. ANALOG INPUT/OUTPUT + : WHITE
- 6. ANALOG LOOP: PURPLE

Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd
2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC	
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC	
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC	

Project Title

FORT ENERGY C/O TRIDENT
RC10355

Drawing Title

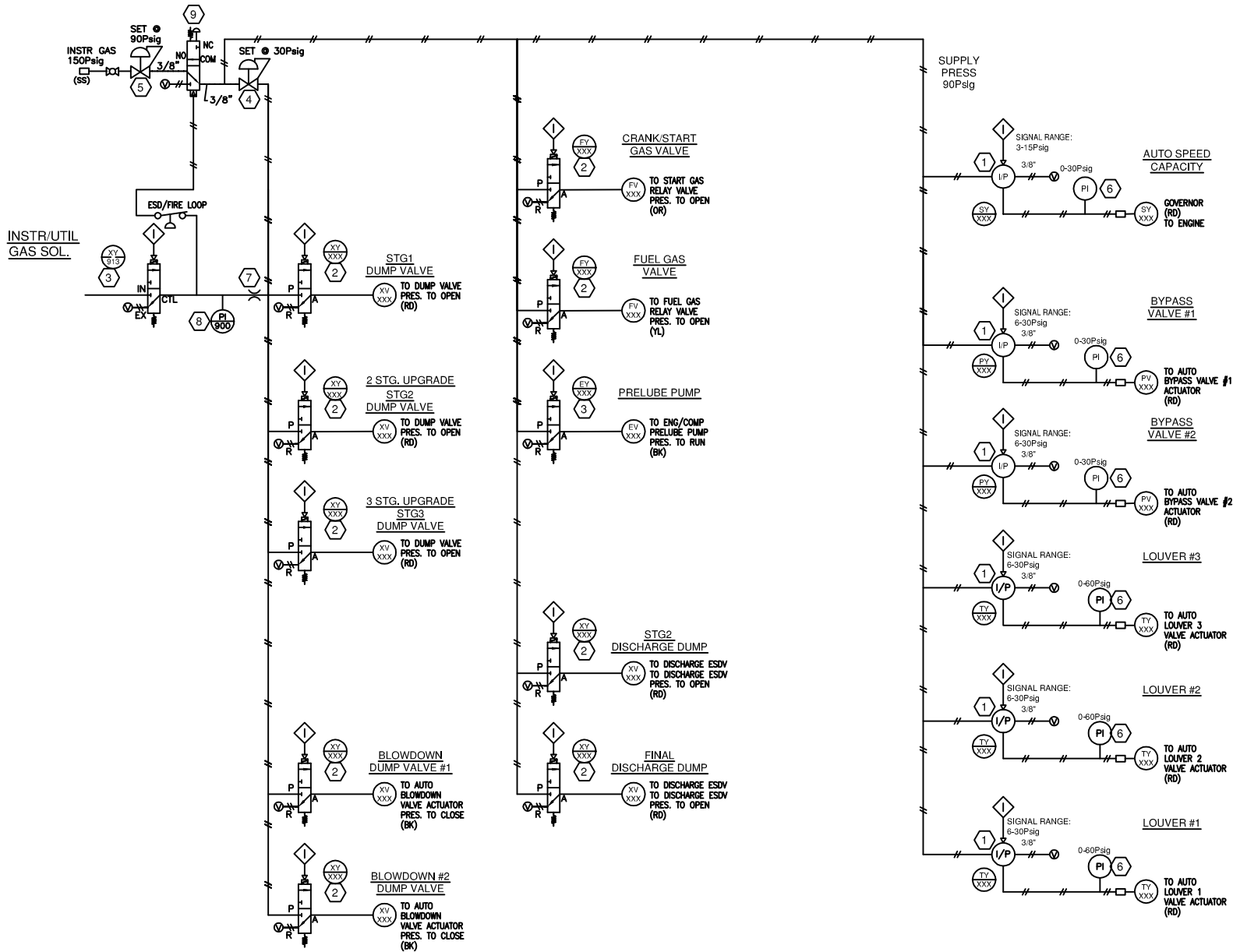
RC2000-10T
COMMUNICATION LAYOUT DRAWING

Syntech

Syntech
Drawing Number
Customer
Drawing Number

5190158-03
050442

1 of 1
NTS



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MODEL #
1	6	FAIRCHILD I/P	TCX117800-401E2
2	9	BURKERT SOLENOID	428871Y
3	2	SNAPTITE SOLENOID	3013Z-ZNT-V6F6
4	1	FISHER TYPE 67 REGULATOR 30 psi	67-CFR-362-SPEC
5	1	FISHER TYPE 64 REGULATOR 90 psi	64-29
6	6	WIKA PRESSURE GAUGE 0-30 PSI	9603021
7	1	AMOT 2185 ORFICE	2185L011
8	1	MURPHY PRESSURE GAUGE 0-100psi	45A 25PEF100
9	1	AMOT 3-WAY ESD SWITCH	4057DO23H2
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-

LAMACOID SCHEDULE

ITEM	QTY	TEXT	COLOR: TEXT/BACKGROUND	SIZE
A	-	-	-	-
B	-	-	-	-
C	-	-	-	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
I	-	-	-	-
J	-	-	-	-
K	-	-	-	-
L	-	-	-	-
M	-	-	-	-

LEGEND

PROCESS PIPING
UTILITY PIPING
TUBING - STAINLESS STEEL
TUBING - NYLON
HOSE (PRE-LUBE OIL, DRAIN)
ELECTRICAL SIGNAL

TUBING COLOR CODE

-BK (BLACK) VENTS
-BL (BLUE) ESD, FIRE LOOP SIGNAL
-RD (RED/TAG #) CONTROL VALVE
-OR (ORANGE) INSTR GAS OVER 35psi
-YL (YELLOW) INSTR GAS BELOW 35psi
-OR (START) ENGINE START GAS
-YL (FUEL) ENGINE FUEL GAS
-BK (BLACK) ENGINE OIL
-BR (BROWN) COMPRESSOR OIL
-GR/WH (GREEN) MANIFOLD
-SS STAINLESS STEEL TUBING

LEGEND

1. PANEL WIRING
2. FIELD WIRING
3. UNFUSED TERMINAL
4. FUSED TERMINAL
5. FEED THROUGH TERMINAL
6. DISCONNECT TERMINAL

WIRE COLOR LEGEND

1. +24VDC: RED
2. -24VDC: YELLOW
3. SWITCHED: ORANGE
4. ANALOG INPUT/OUTPUT - : BLACK
5. ANALOG INPUT/OUTPUT + : WHITE
6. ANALOG LOOP: PURPLE

Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd
2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC	
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC	
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC	

Project Title

FORT ENERGY C/O TRIDENT
RC10355

Drawing Title

PNEUMATIC
LAYOUT DRAWING

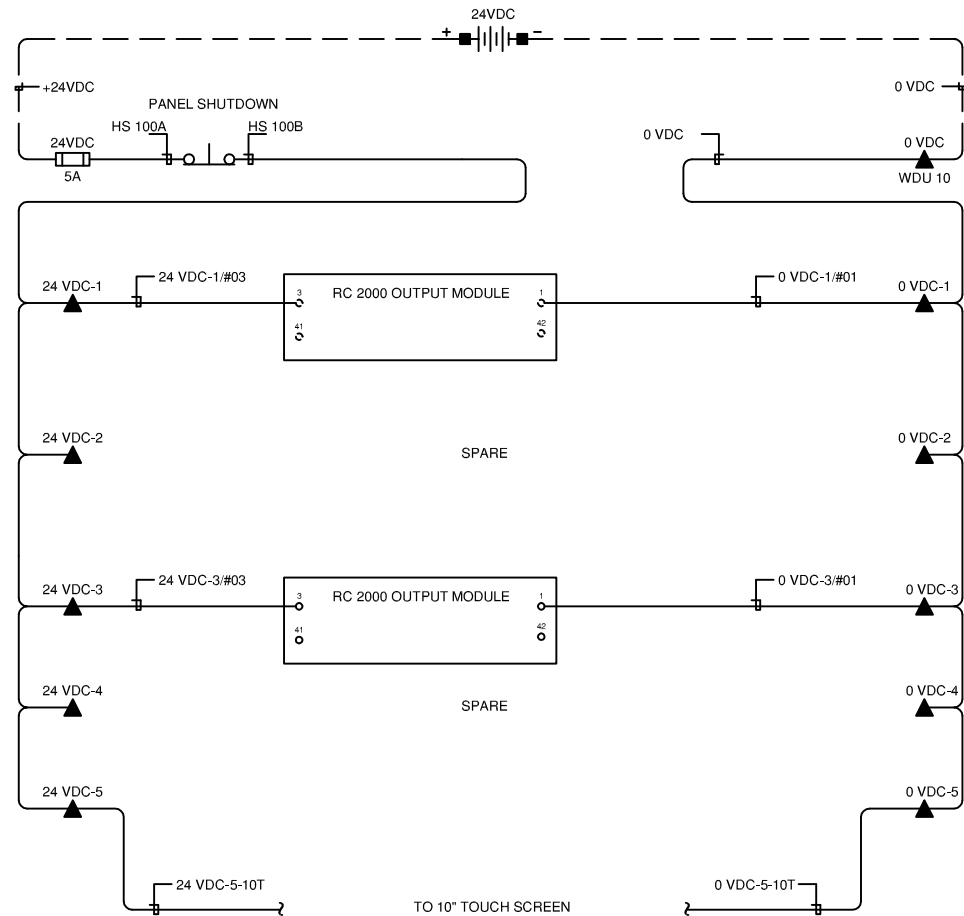
Syntech

Syntech
Drawing Number
Customer
Drawing Number

5190158-04
050442

1 of 1
NTS

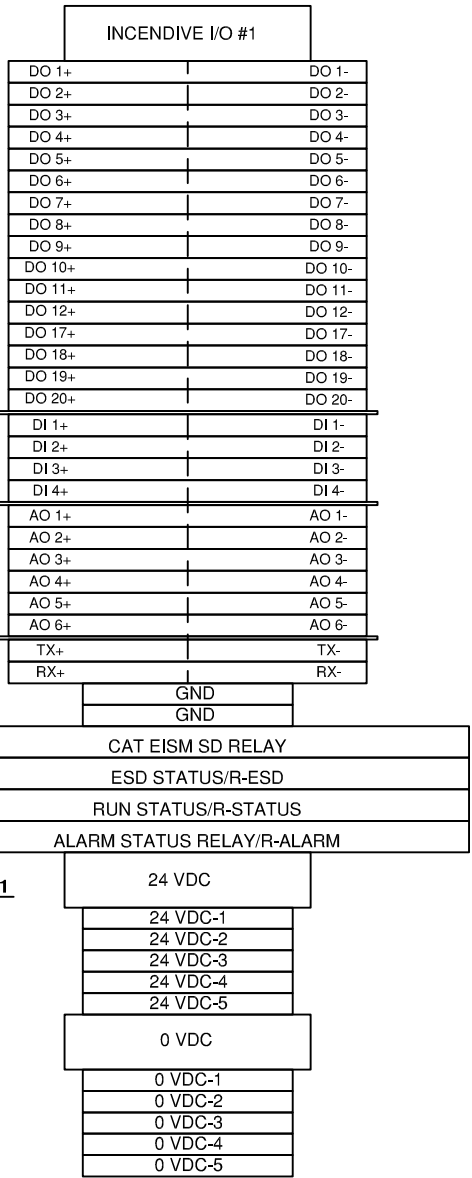
24VDC POWER DISTRIBUTION



24VDC TERMINAL LAYOUT

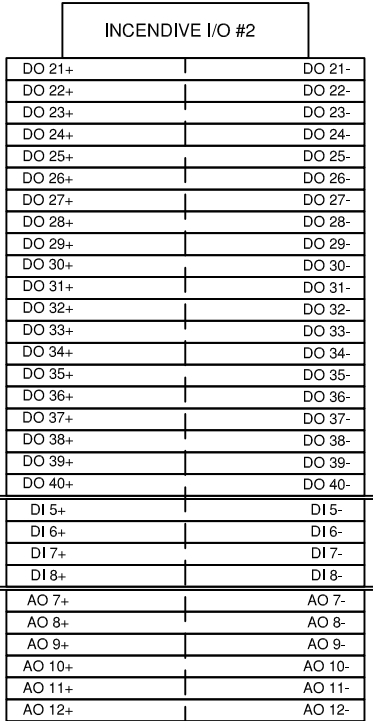
TOP LEVEL

BOTTOM LEVEL



TOP LEVEL

BOTTOM LEVEL



NOTE 1

NOTES: 1. SEPARATE 24 VDC POWER PROVIDED FOR PANEL.

LEGEND

- 1. PANEL WIRING
- 2. FIELD WIRING
- 3. UNFUSED TERMINAL
- 4. FUSED TERMINAL
- 5. FEED THROUGH TERMINAL
- 6. DISCONNECT TERMINAL

WIRE COLOR LEGEND

- 1. +24VDC: RED
- 2. -24VDC: YELLOW
- 3. SWITCHED: ORANGE
- 4. ANALOG INPUT/OUTPUT - : BLACK
- 5. ANALOG INPUT/OUTPUT + : WHITE
- 6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title

FORT ENERGY C/O TRIDENT
RC10355

Drawing Title

24 VDC POWER DISTRIBUTION
LAYOUT DRAWING

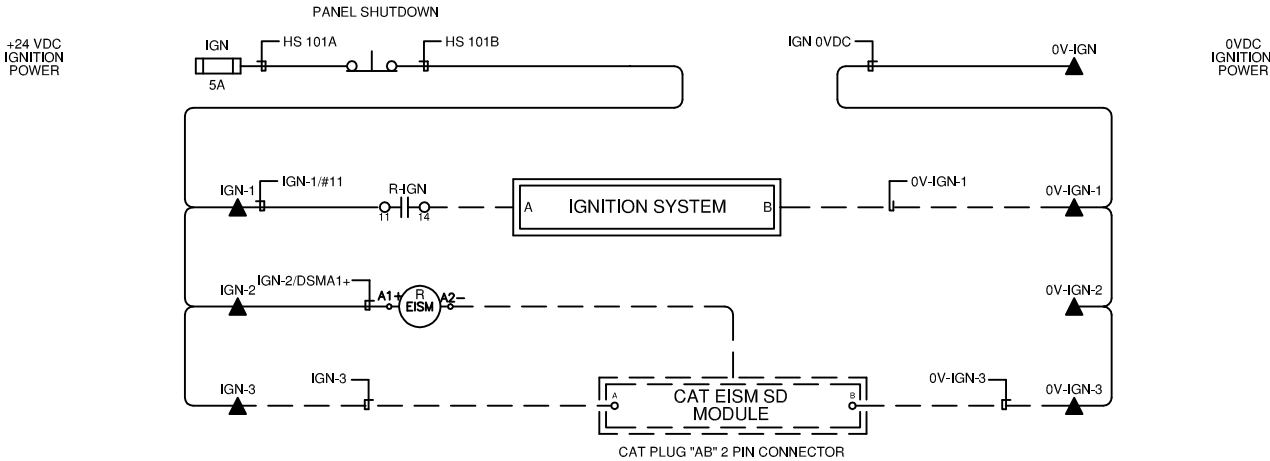
Syntech

Syntech
Drawing Number
Customer
Drawing Number

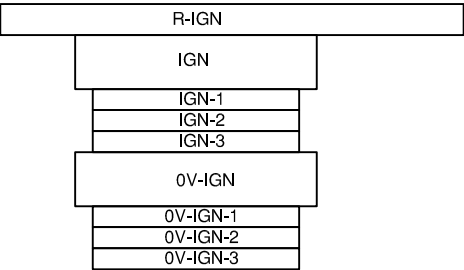
5190158-05
050442

1 of 1
NTS

IGNITION DISTRIBUTION



IGNITION TERMINAL LAYOUT



LEGEND

- 1. PANEL WIRING
- 2. FIELD WIRING
- 3. UNFUSED TERMINAL
- 4. FUSED TERMINAL
- 5. FEED THROUGH TERMINAL
- 6. DISCONNECT TERMINAL

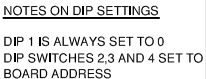
WIRE COLOR LEGEND

- 1. +24VDC: RED
- 2. -24VDC: YELLOW
- 3. SWITCHED: ORANGE
- 4. ANALOG INPUT/OUTPUT - : BLACK
- 5. ANALOG INPUT/OUTPUT + : WHITE
- 6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

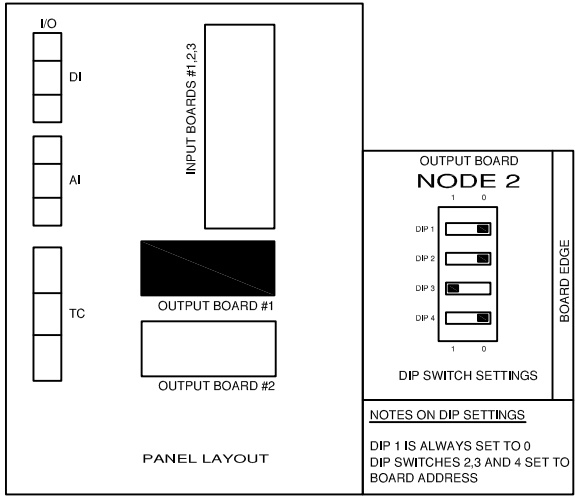
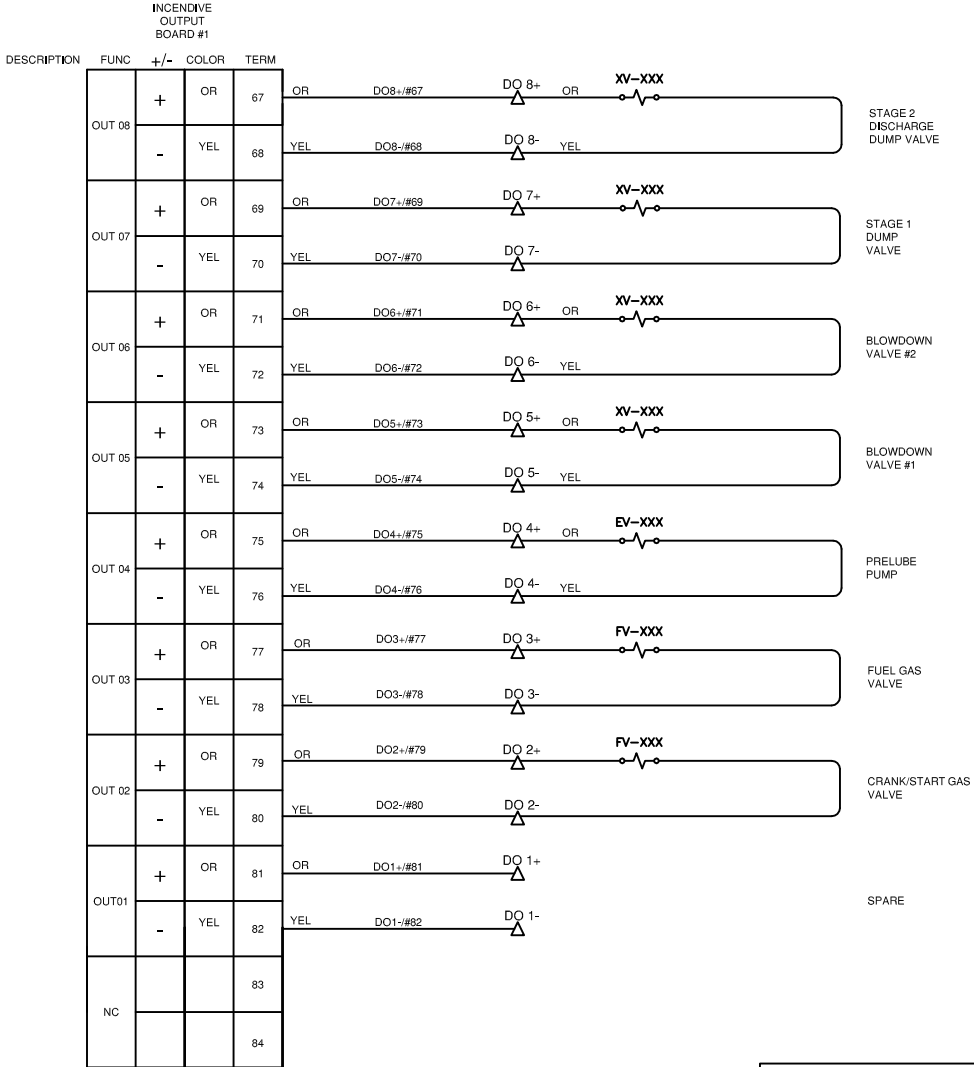
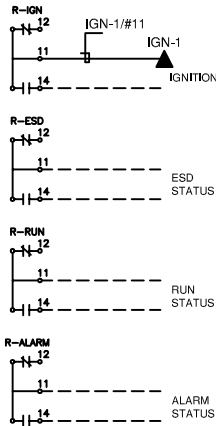
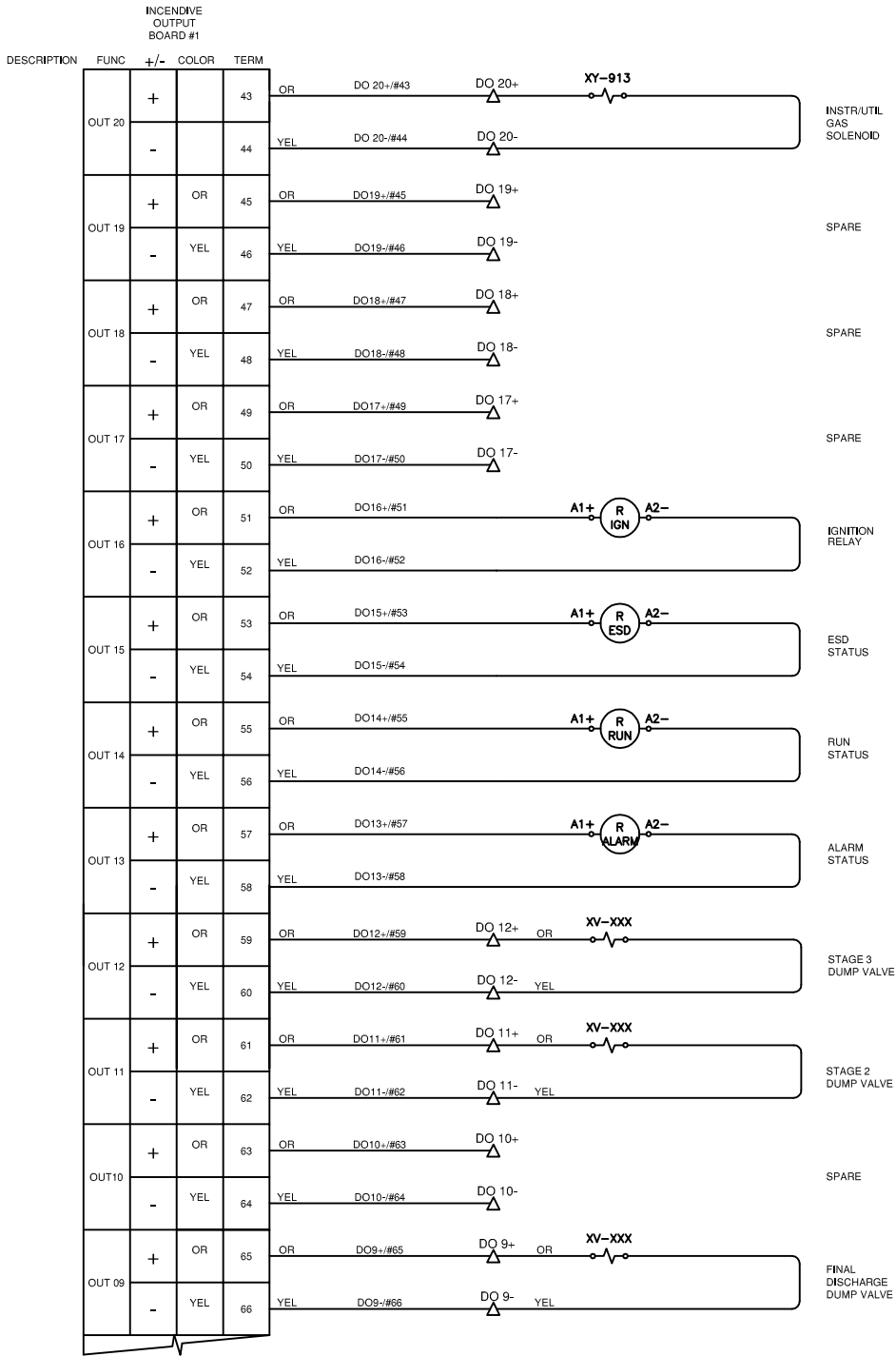
Project Title	FORT ENERGY C/O TRIDENT RC10355
Drawing Title	IGNITION POWER DISTRIBUTION LAYOUT DRAWING

Syntech	
Syntech Drawing Number	5190158-06
Customer Drawing Number	050442
1 of 1	NTS



NTS

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LEGEND

1. PANEL WIRING
2. FIELD WIRING
3. UNFUSED TERMINAL
4. FUSED TERMINAL
5. ANALOG INPUT/OUTPUT - : BLACK
6. ANALOG INPUT/OUTPUT + : WHITE

WIRE COLOR LEGEND

1. +24VDC: RED
2. -24VDC: YELLOW
3. SWITCHED: ORANGE
4. ANALOG INPUT/OUTPUT - : BLACK
5. ANALOG INPUT/OUTPUT + : WHITE
6. ANALOG LOOP: PURPLE

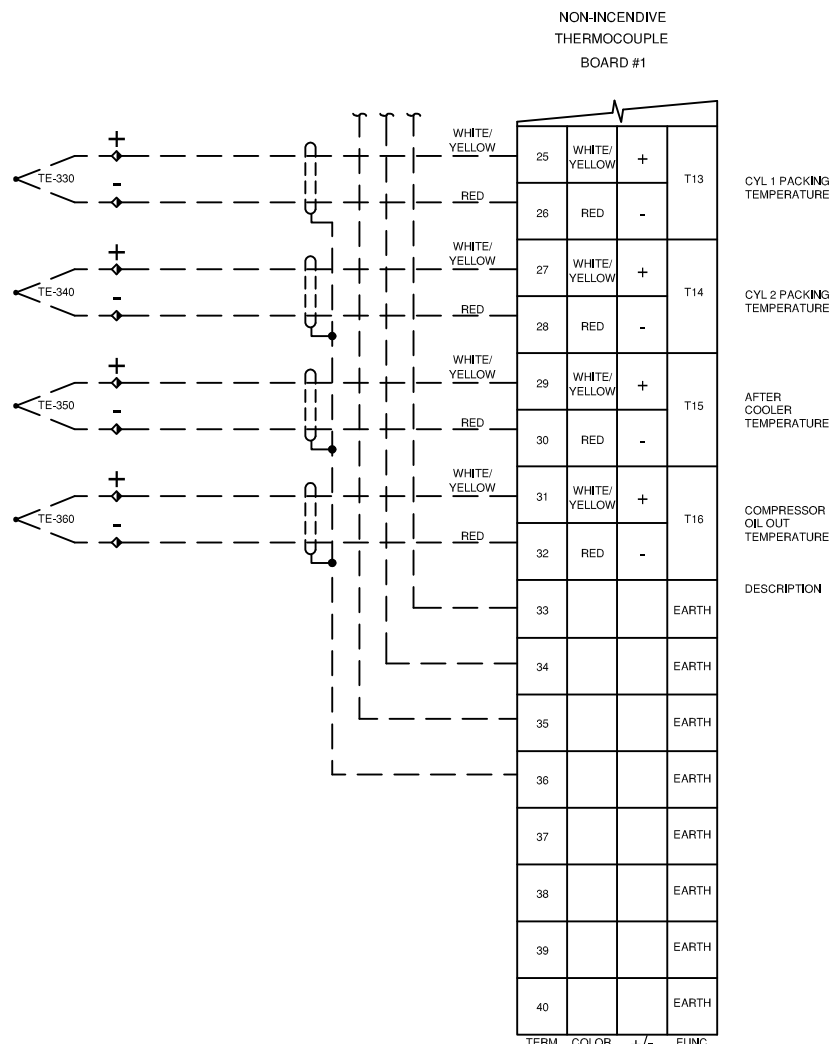
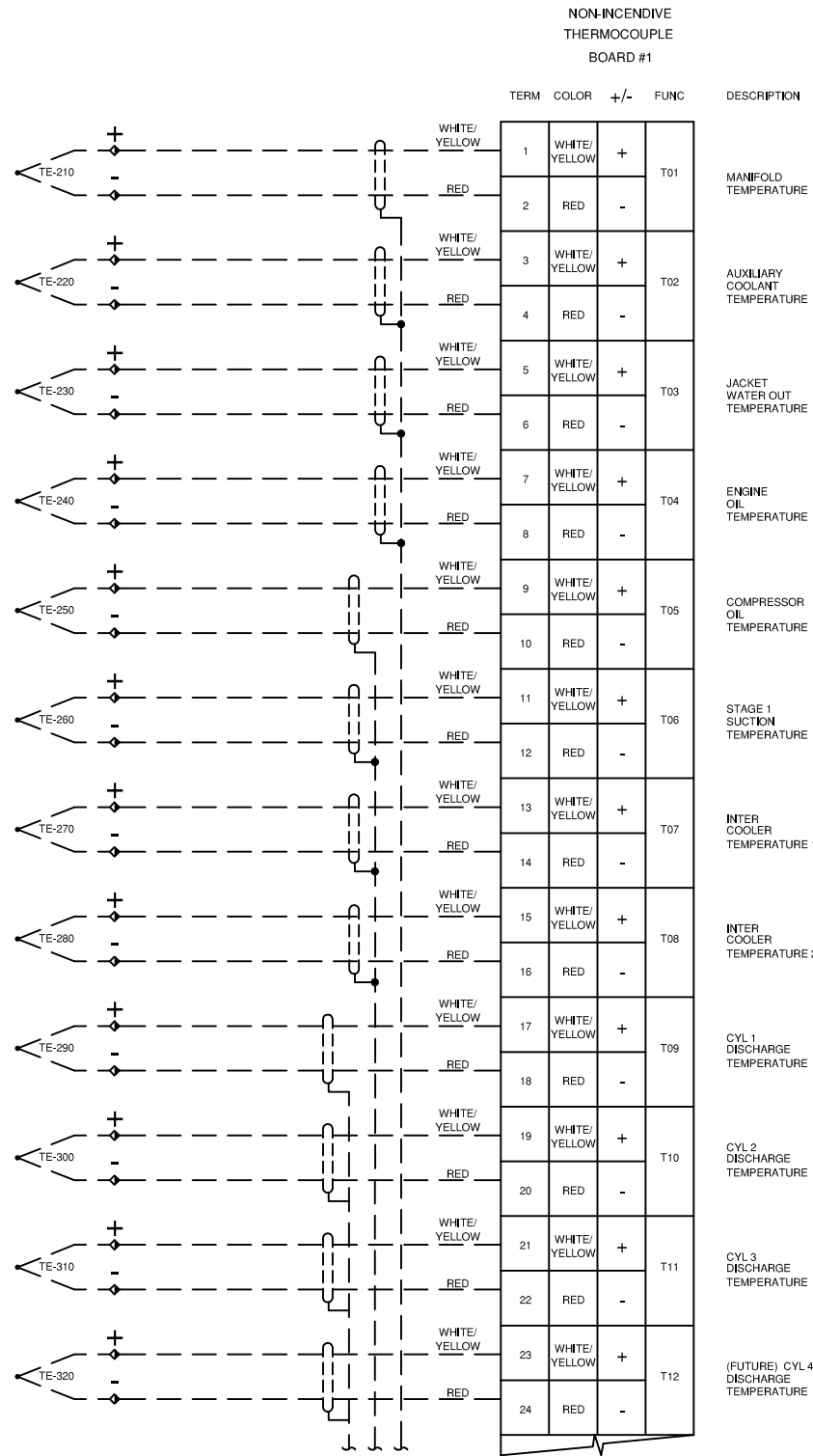
2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title	FORT ENERGY C/O TRIDENT RC10355
Drawing Title	INCENDIVE OUTPUT BOARD #1 con't LAYOUT DRAWING

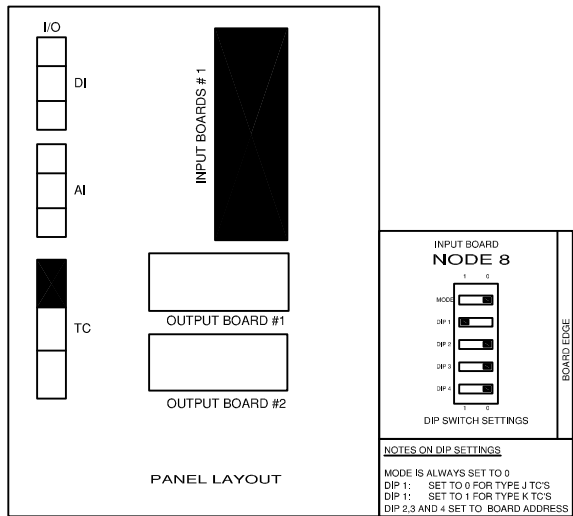
Syntech Drawing Number	5190158-11	1 of 1
Customer Drawing Number	050442	NTS



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THERMOCOUPLE FIELD WIRING
K-TYPE: + = YELLOW
 - = RED
J-TYPE: + = WHITE
 - = RED

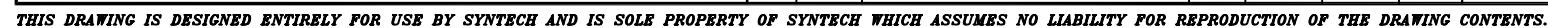
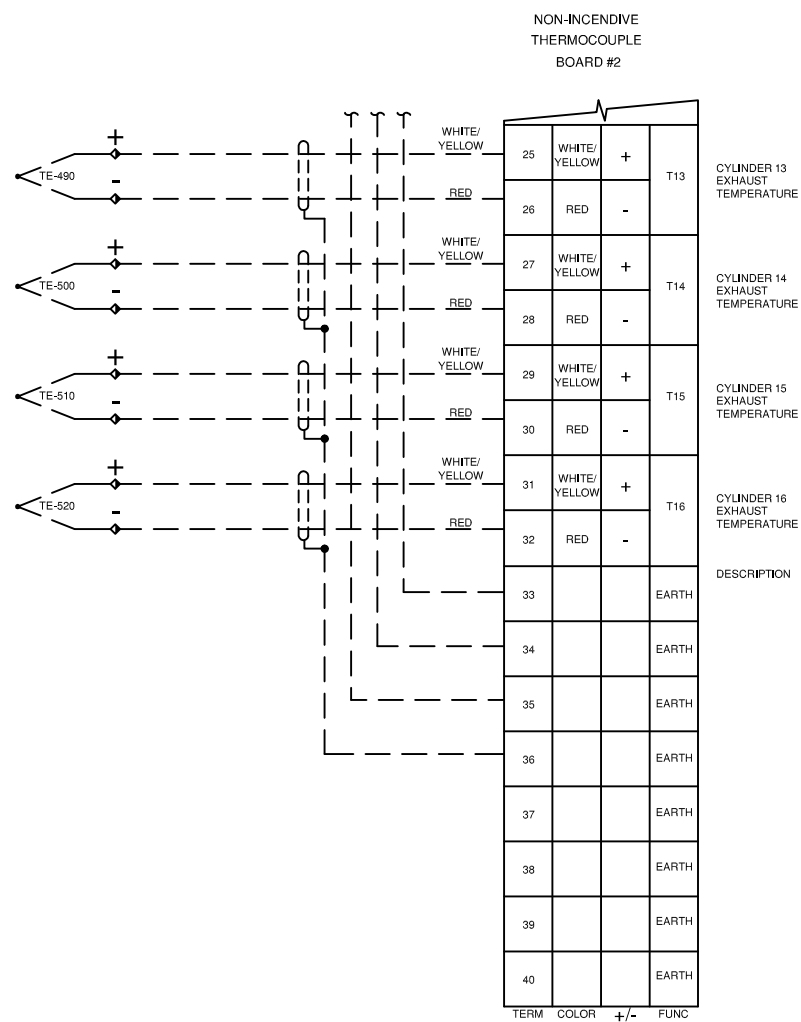


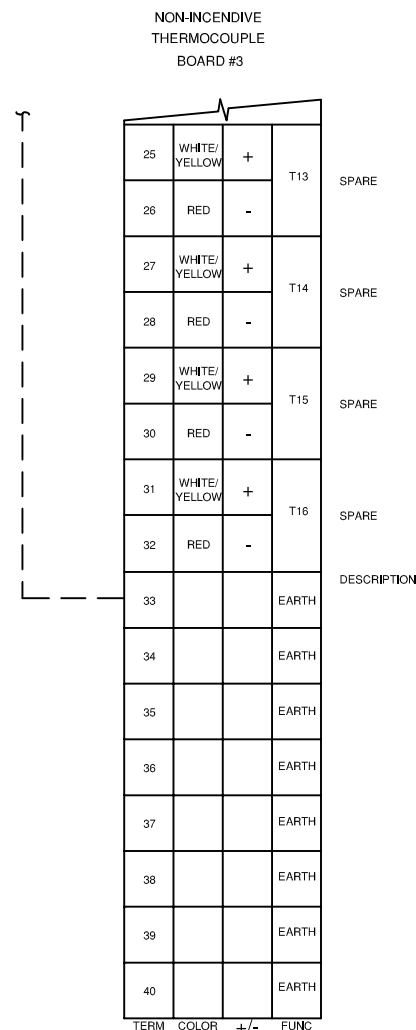
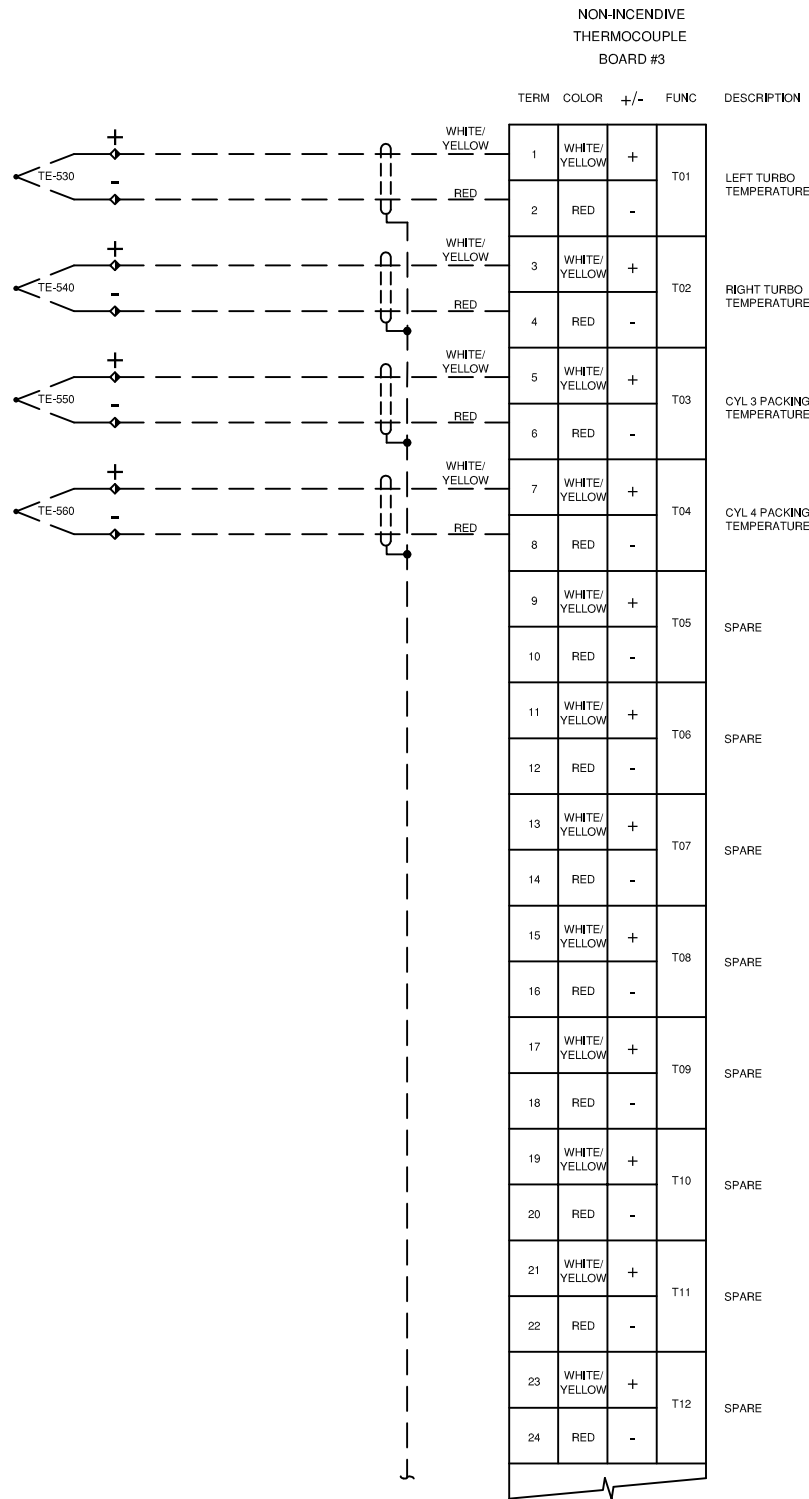
- LEGEND
1. PANEL WIRING
2. FIELD WIRING
3. UNFUSED TERMINAL
4. FUSED TERMINAL
5. FEED THROUGH TERMINAL
6. DISCONNECT TERMINAL
- WIRE COLOR LEGEND
1. +24VDC: RED
2. -24VDC: YELLOW
3. SWITCHED: ORANGE
4. ANALOG INPUT/OUTPUT -: BLACK
5. ANALOG INPUT/OUTPUT +: WHITE
6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title	FORT ENERGY C/O TRIDENT RC10355
Drawing Title	NON-INCENDIVE INPUT BOARD #1 THERMOCOUPLE LAYOUT DRAWING

Syntech Drawing Number	5190158-15	1 of 1
Customer Drawing Number	050442	NTS

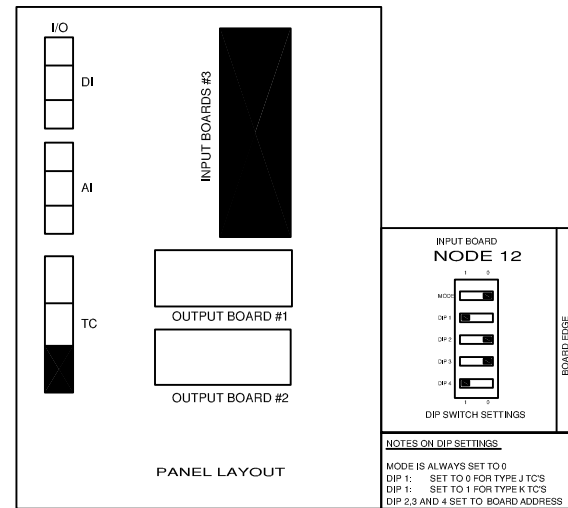




THERMOCOUPLE FIELD WIRING

K-TYPE: + = YELLOW
- = RED

J-TYPE: + = WHITE
- = RED

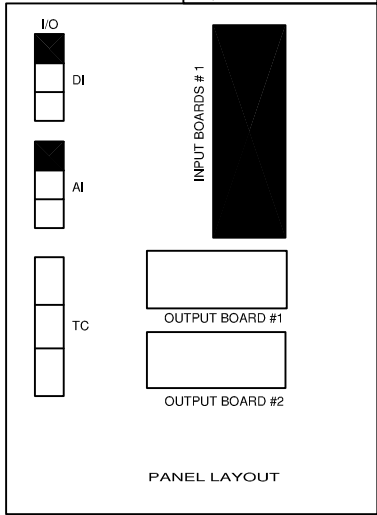
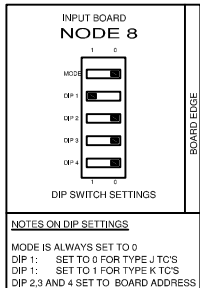
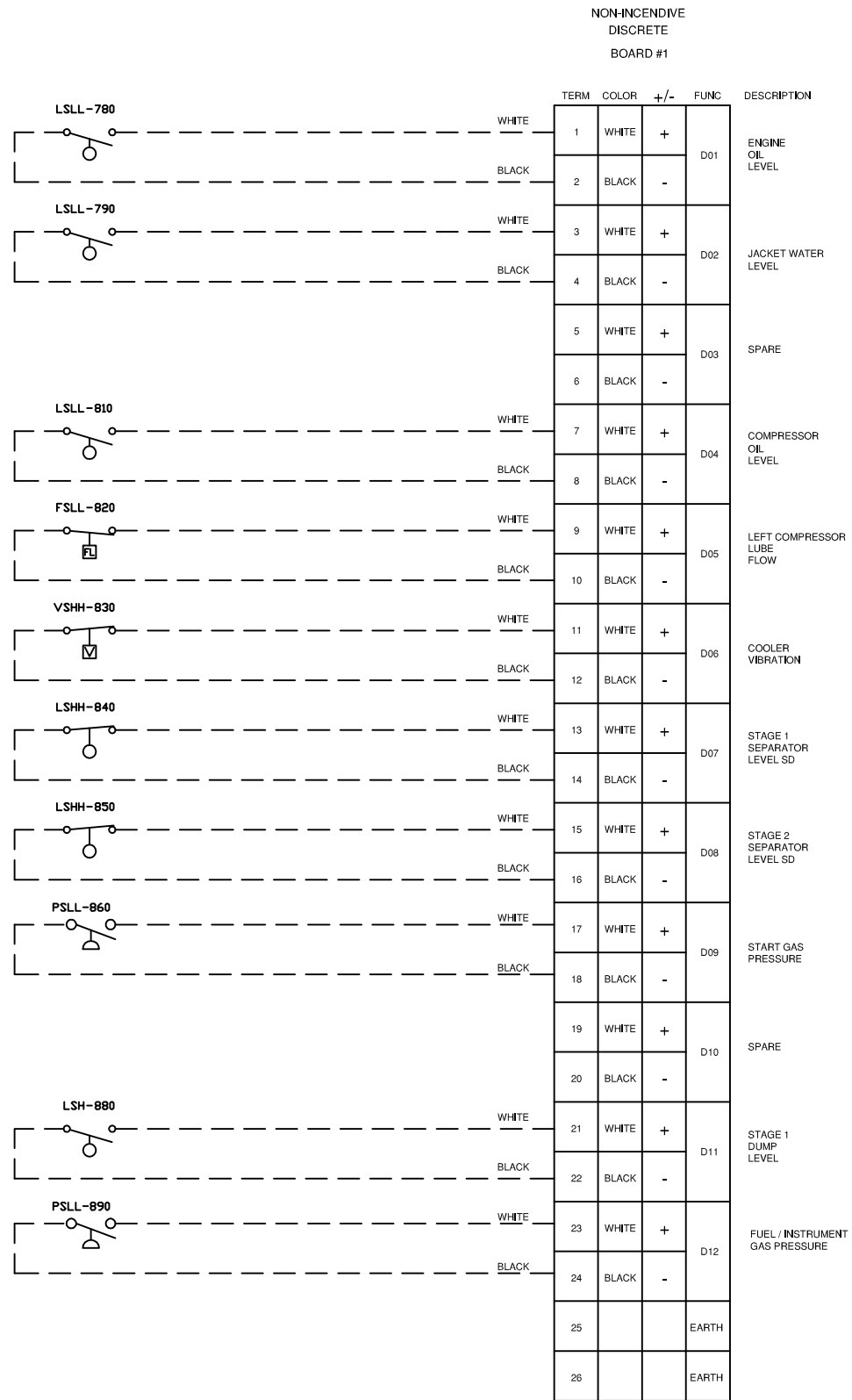
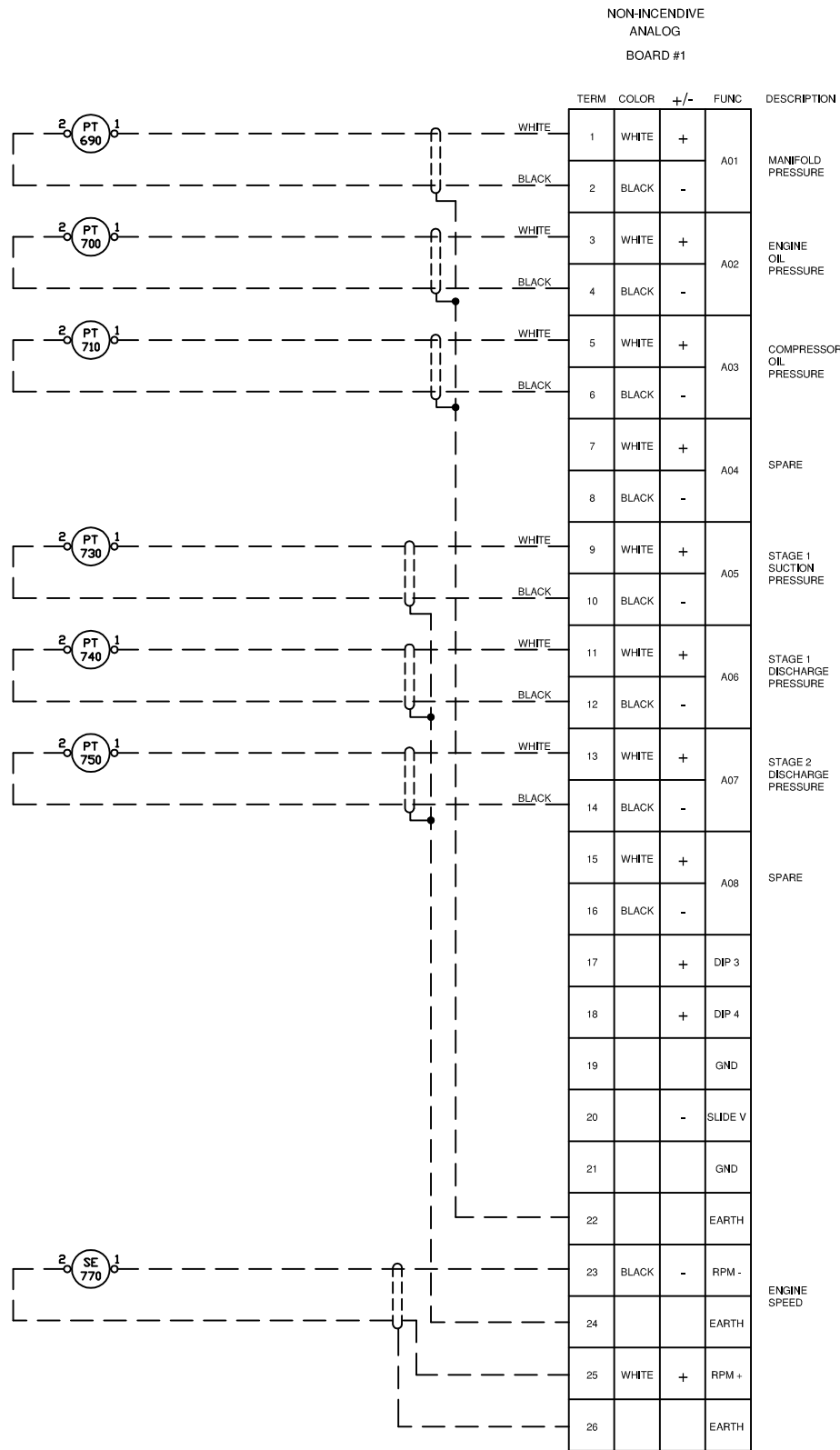


- LEGEND
1. PANEL WIRING
2. FIELD WIRING
3. UNFUSED TERMINAL
4. FUSED TERMINAL
5. FEED THROUGH TERMINAL
6. DISCONNECT TERMINAL
- WIRE COLOR LEGEND
1. +24VDC: RED
2. -24VDC: YELLOW
3. SWITCHED: ORANGE
4. ANALOG INPUT/OUTPUT - : BLACK
5. ANALOG INPUT/OUTPUT + : WHITE
6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title	FORT ENERGY C/O TRIDENT RC10355
Drawing Title	NON-INCENDIVE INPUT BOARD #3 THERMOCOUPLE LAYOUT DRAWING

Syntech Drawing Number	5190158-17	1 of 1
Customer Drawing Number	050442	NTS



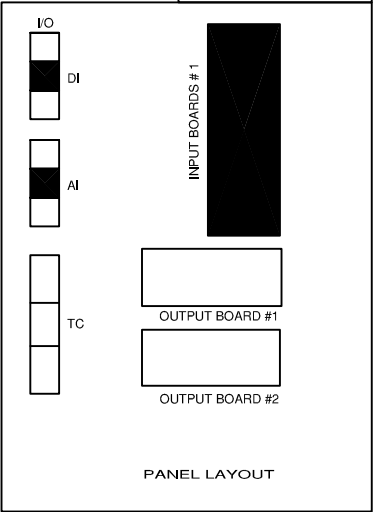
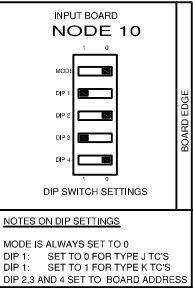
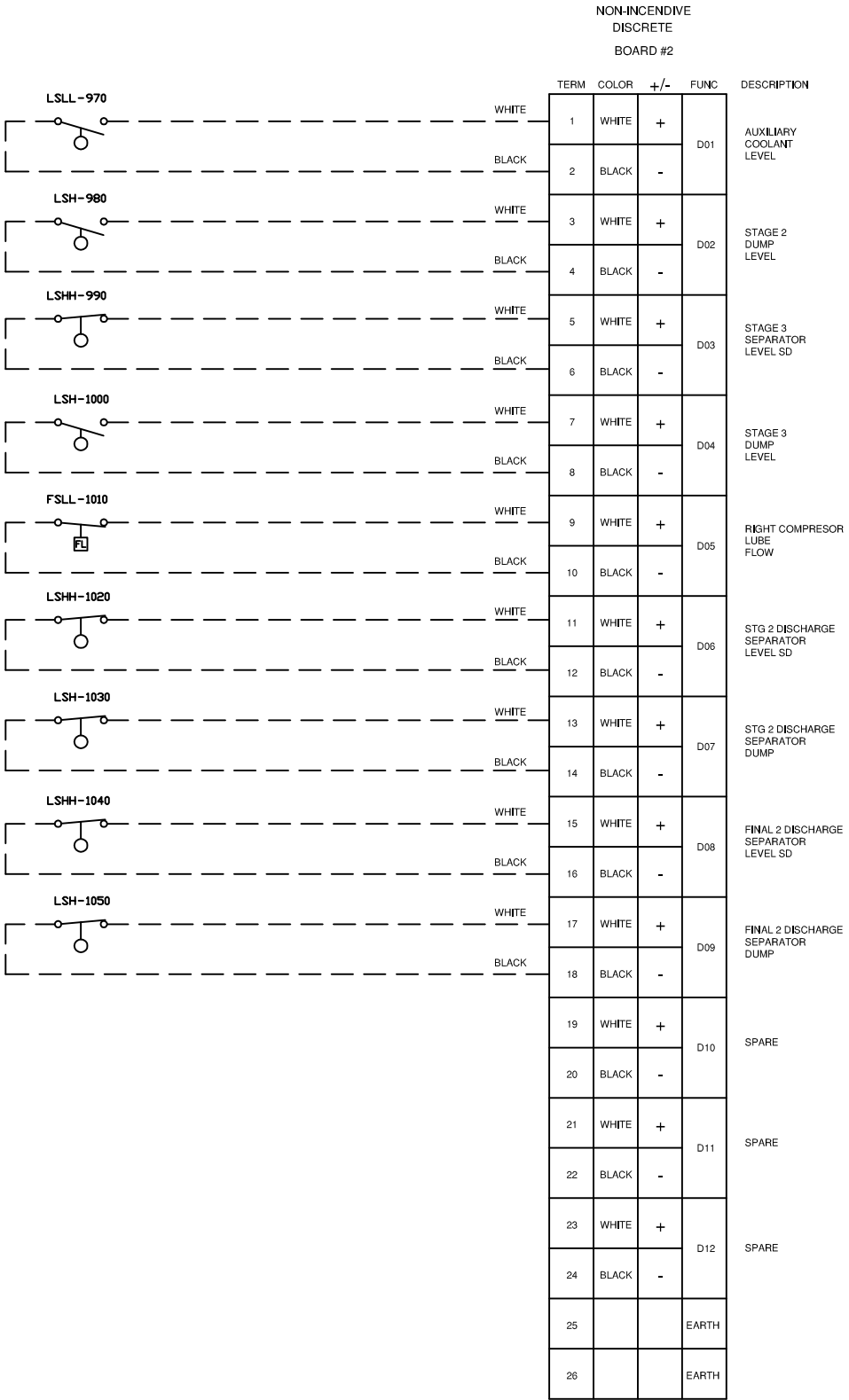
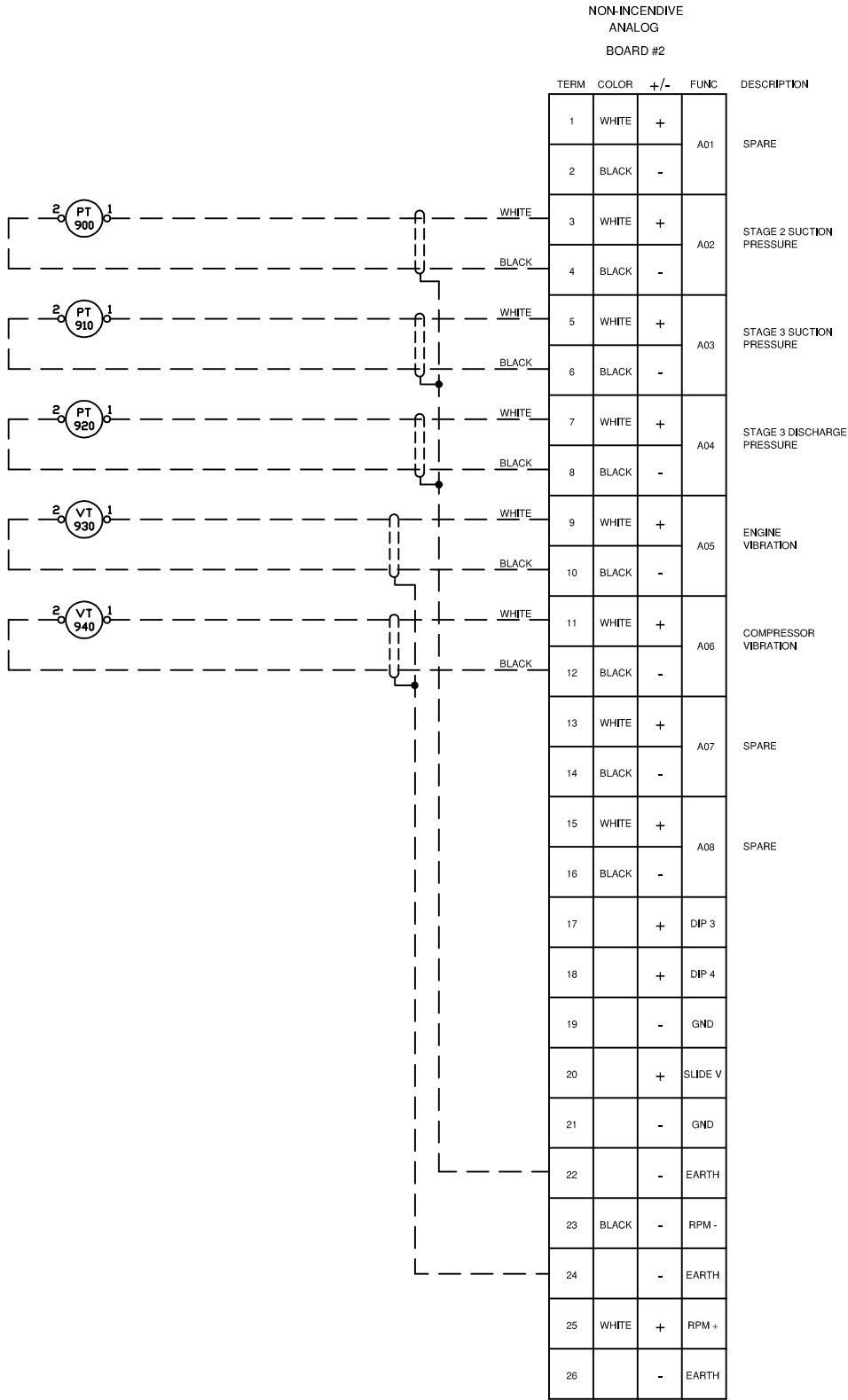
- LEGEND**
- 1. PANEL WIRING
 - 2. FIELD WIRING
 - 3. UNFUSED TERMINAL
 - 4. FUSED TERMINAL
 - 5. FEED THROUGH TERMINAL
 - 6. DISCONNECT TERMINAL
- WIRE COLOR LEGEND**
- 1. +24VDC: RED
 - 2. -24VDC: YELLOW
 - 3. SWITCHED: ORANGE
 - 4. ANALOG INPUT/OUTPUT - : BLACK
 - 5. ANALOG INPUT/OUTPUT + : WHITE
 - 6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title	FORT ENERGY C/O TRIDENT RC10355	
Drawing Title	NON-INCENDIVE INPUT BOARD #1 ANALOG / DISCRETE LAYOUT DRAWING	

Syntech		
Syntech Drawing Number	5190158-18	1 of 1
Customer Drawing Number	050442	NTS

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LEGEND

- 1. PANEL WIRING
- 2. FIELD WIRING
- 3. UNFUSED TERMINAL
- 4. FUSED TERMINAL
- 5. FEED THROUGH TERMINAL
- 6. DISCONNECT TERMINAL

WIRE COLOR LEGEND

- 1. +24VDC: RED
- 2. -24VDC: YELLOW
- 3. SWITCHED: ORANGE
- 4. ANALOG INPUT/OUTPUT - : BLACK
- 5. ANALOG INPUT/OUTPUT + : WHITE
- 6. ANALOG LOOP: PURPLE

2	A	PANEL SHOP AS BUILT	AK	20.09.2005	SC		
2		PANEL SHOP AS BUILT	AK	01.09.2005	SC		
1		ISSUED FOR CONSTRUCTION	AK	12.08.2005	SC		
Rev.	Soft Rev.	Revision Description	By	Date	Checked	Aprvd	

Project Title	FORT ENERGY C/O TRIDENT RC10355
Drawing Title	NON-INCENDIVE INPUT BOARD #2 ANALOG / DISCRETE LAYOUT DRAWING

Syntech		
Syntech Drawing Number	5190158-19	1 of 1
Customer Drawing Number	050442	NTS

