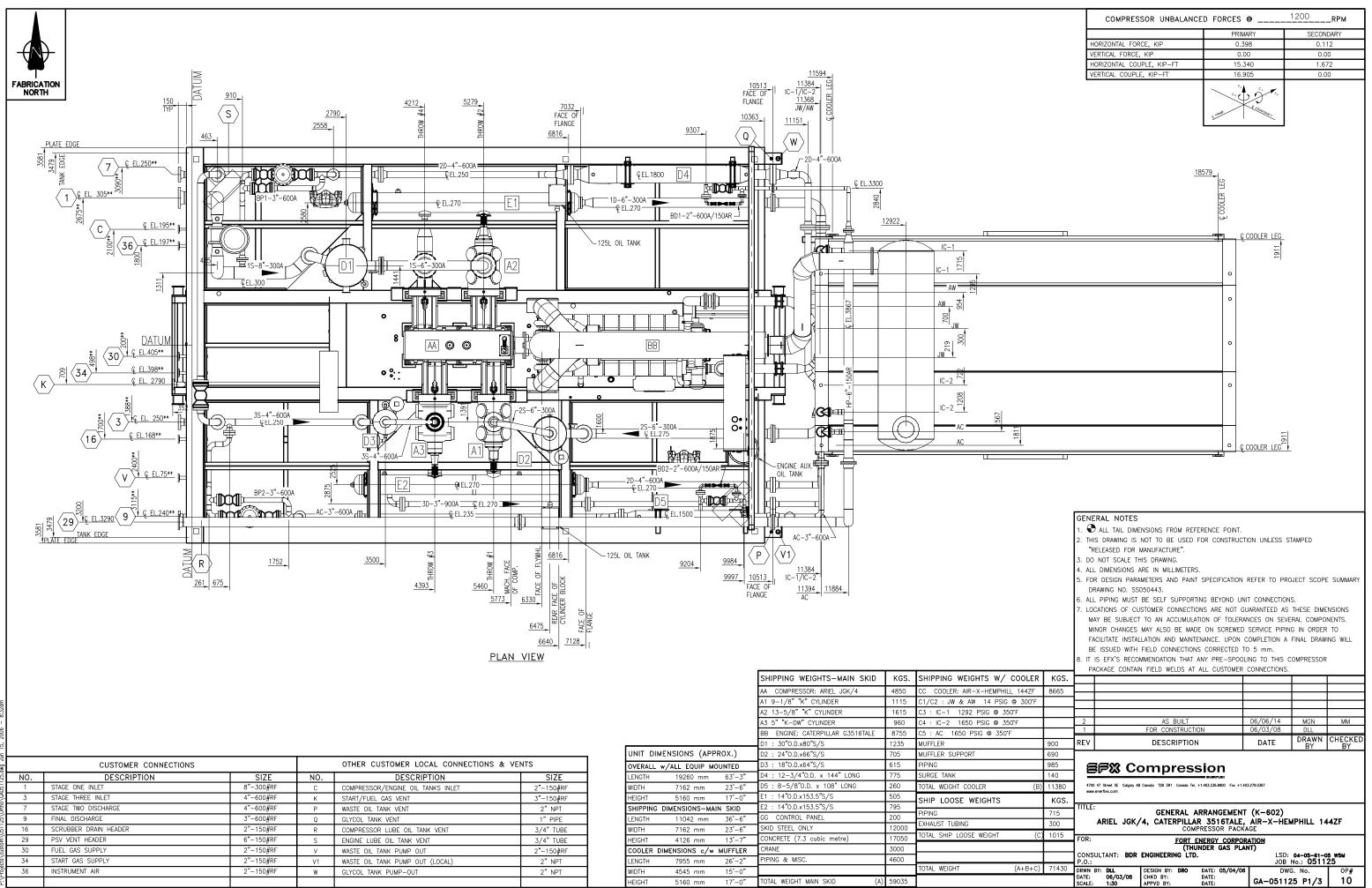
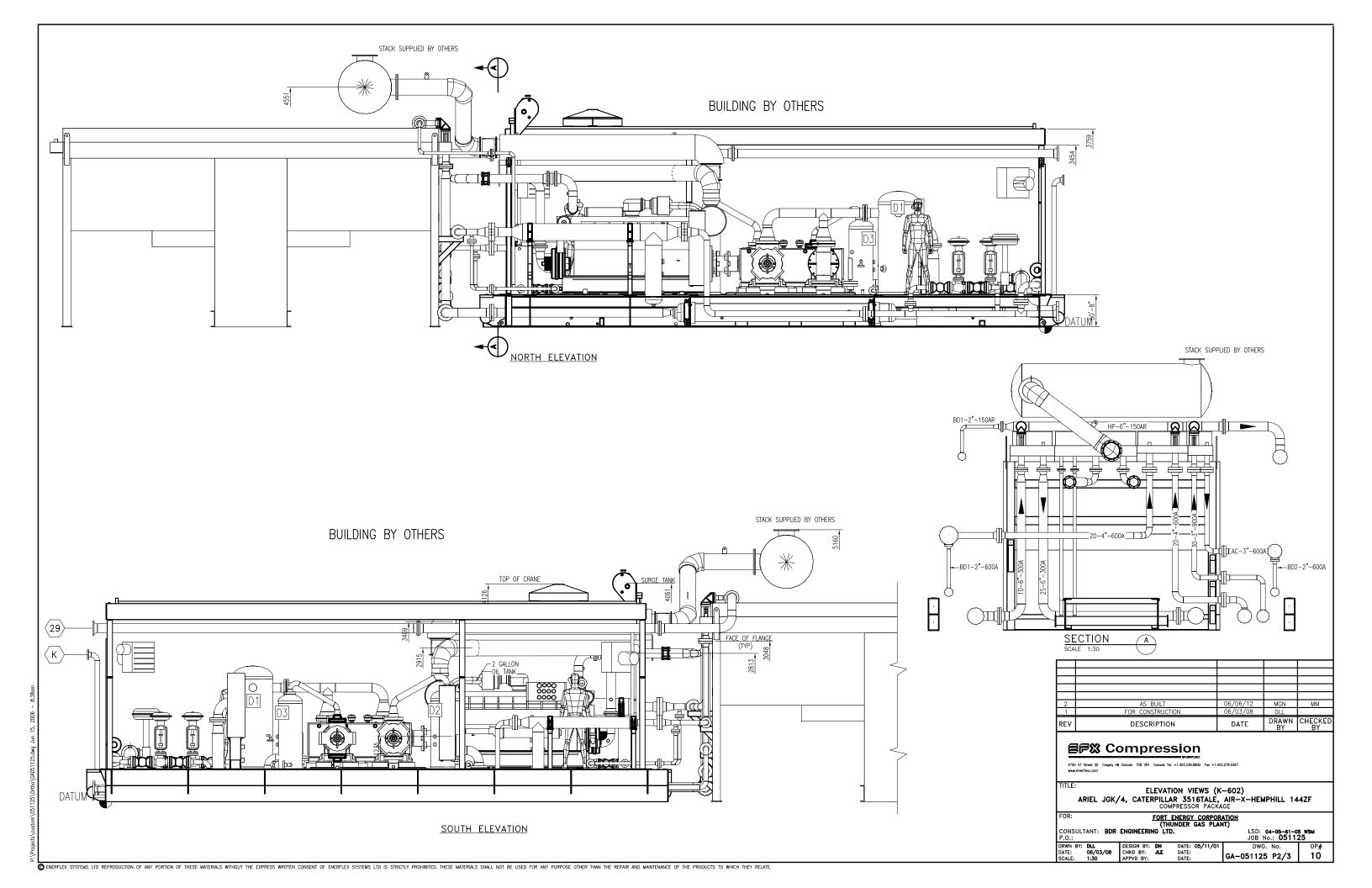
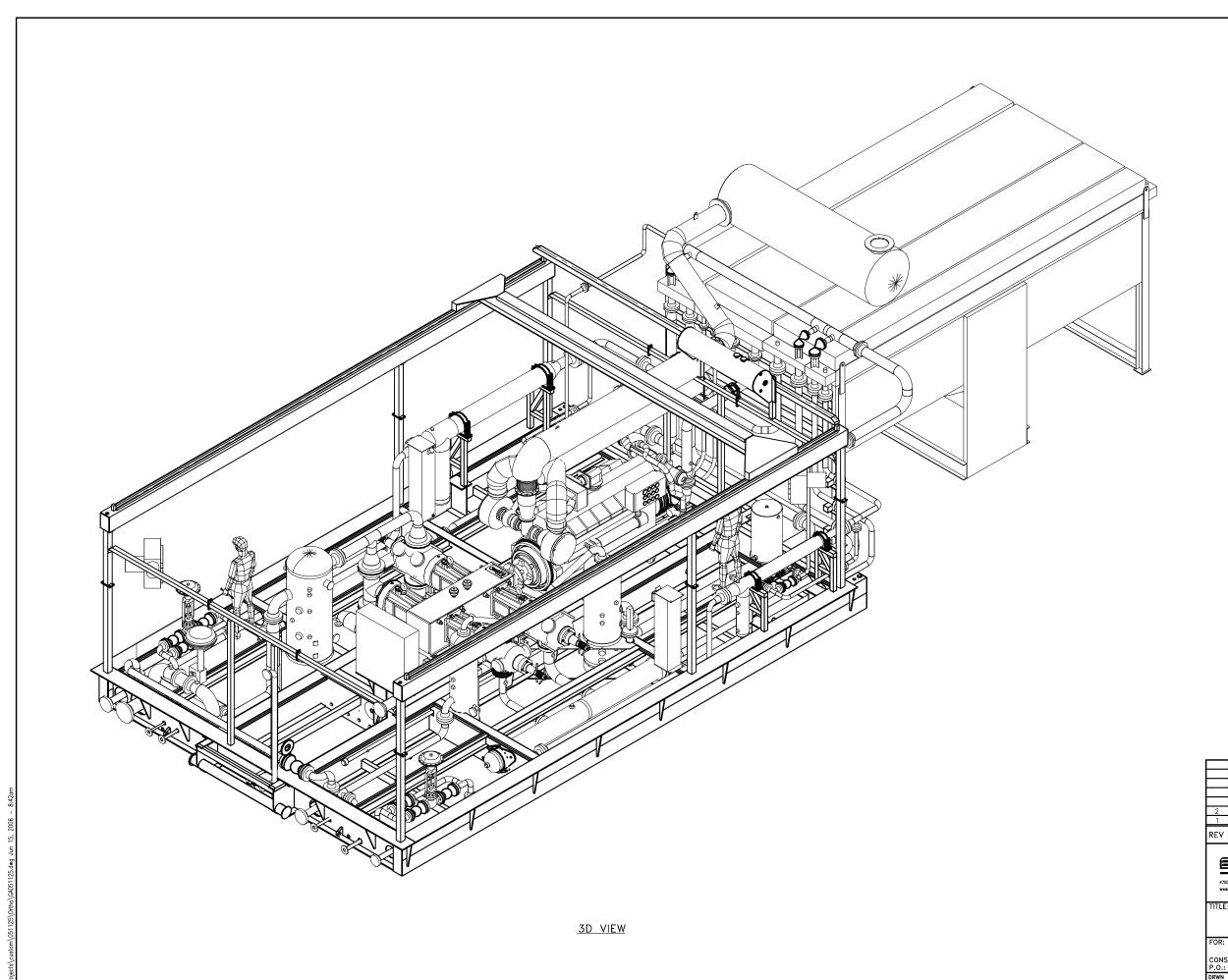


DRAWINGS



O ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED. THESE MATERIALS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE REPAIR AND MAINTENANCE OF THE PRODUCTS TO WHICH THEY RELATE.





Livian PLOC							
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel +1.403.236.6800 Fax +1.403.279.0367 www.eneffex.com							
TITLE: 3D VIEW (K-602) ARIEL JGK/4, CATERPILLAR 3516TALE, AIR-X-HEMPHILL 144ZF COMPRESSOR PACKAGE							
FOR:		ENERGY CORPOR/ INDER GAS PLAN					
CONSULTANT: BDR ENGINEERING LTD. LSD: 04-05-61-05 W5M P.O.: JOB No.: 051125							
DRWN BY: DLL	DESIGN BY: DRO	DATE: 05/11/01	DWG. No.	OP#			
DATE: 06/03/08 SCALE: 1:30	CHKD BY: JLE APPVD BY:	DATE: DATE:	GA-051125 P3/3	10			

06/06/12

DATE

6/03/0

MGN

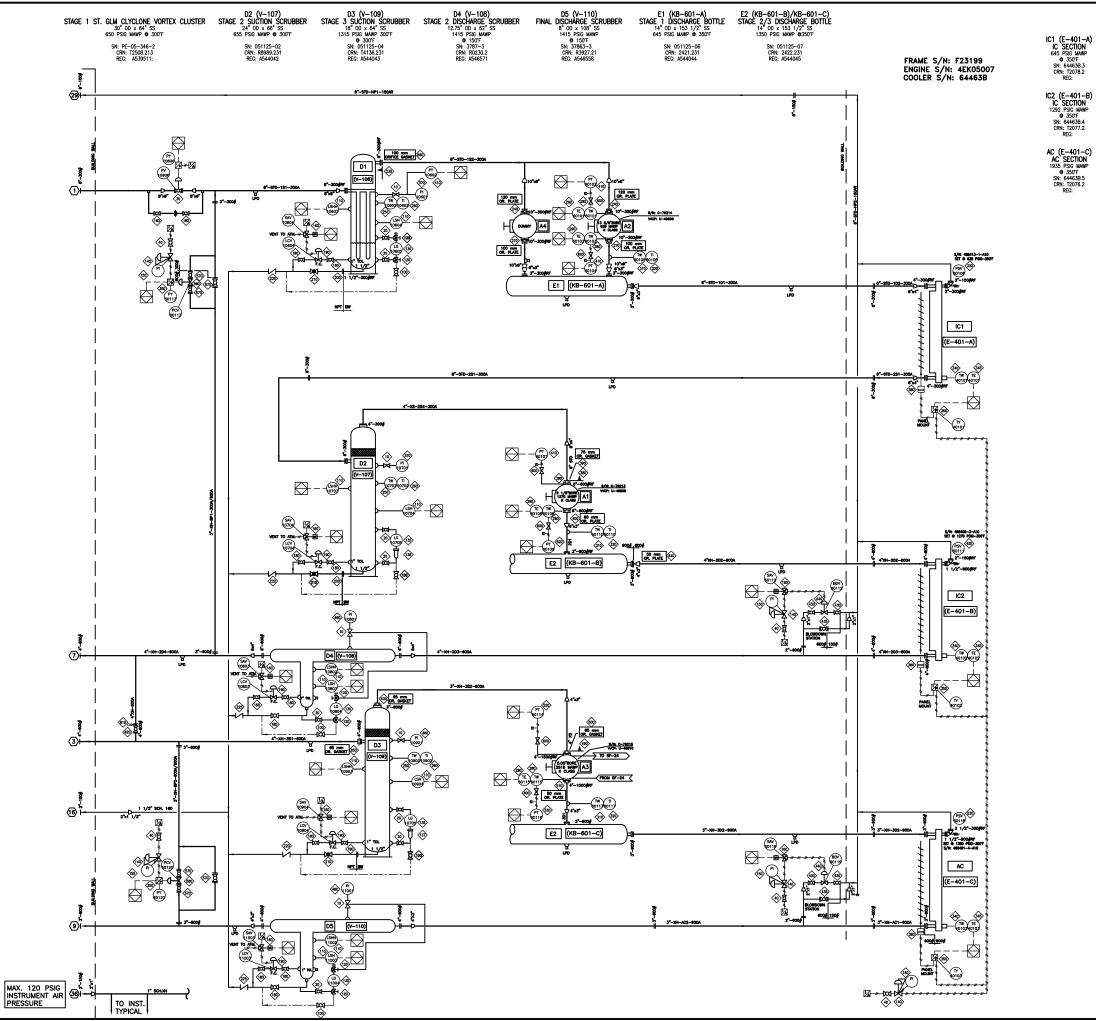
DRAWN CHECKED BY BY

DLL

AS BUILT

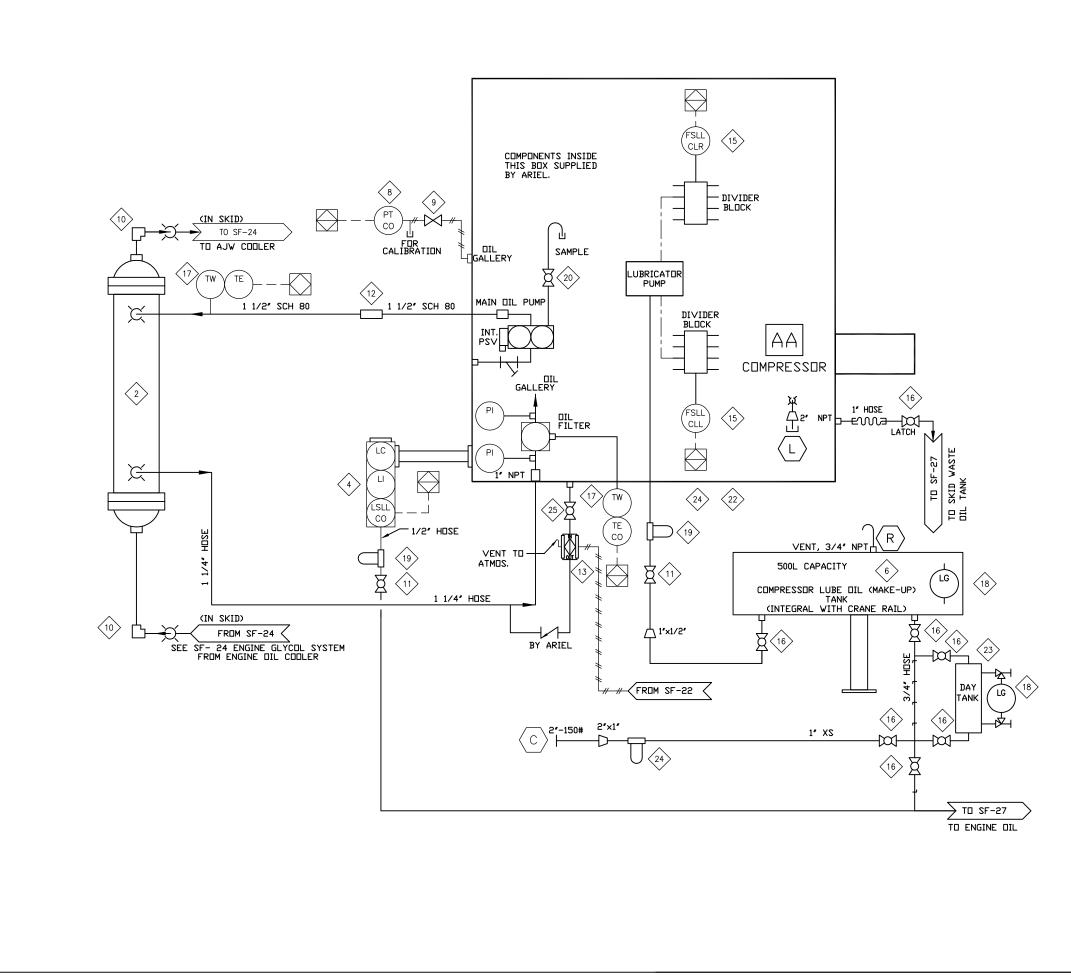
FOR CONSTRUCTION

DESCRIPTION



© ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

10 20 30	5	108004		N 3/4" MNPT X 1/2" FNPT,		- 7 WEAT ON T	CD100]		
30	8	124360		2" NPT, 3000∦ WOG, FP,					
	1	124408		6" 150/300#RF WCC FC					
40 100	5 5	102950		" NPT, 2000∯ WOG, RP, 2" NPT, 2000∯ WOG, FP,					
110	10	101205		NPT, 303SS BODY, CS/			-ES-CS]		
120 130	6 3	103693 103659		e, Sweet, 1/2" FNPT X S with reflex flat gla:					
134	1	124437	GAUGE, MAGNETIC	: LEVEL, 4" 300∦ RF [₩	AGTECH, LG6E]				
135 136	1	124456 NPN-REQ		LEVEL, 4" 600∦ RF [M KS WITH 4" 300∦ FLANG					
137	1	NPN-REQ		IKS WITH 4" 600∯ FLANG					
140 150	5	104872 107925		'NPT, ALUM., 0−125∦, T. E, CBM, 2" DRY, 0−60 P			SPEC]		
160	5	NPN-REQ		3WAY, 24VDC, CSA, XP, 1			L PANEL		
180	12	112801		NPT, 3000# WOG, RP, CS					
190 200	5	104854 106465		1" NPT, LCC, FLOW ADJ, 0, 1-1/2" 300# SA105N	, FC, NACE, 0-35∰ [FI	Sher/Flopro, D	12-X1j		
210	3	102866	VALVE, GLOBE, 1-	-1/2" NPT, 800∦ WOG, (
220 225	3	103072 103069		Iston, 1−1/2" NPT, 800, Iston, 1" NPT, 800# WO					
230	1	104260		6" 300∦ CS, 40 MESH,		2			
240	2	105728		, TYPE 520, 316LSS, 1/0					
250 260	3	117067		5SS, 1/2" X 3/4" NPTM DIAL LF, 6" STEM, 0-25					
270	2	105728	***ORIFICE PLATE,	, TYPE 520, 316LSS, 1/0	3" THK, 10" 300∦				
280	4	114198C 117910B		1/8"F X 1/2" MNPT, 1/					
290 310	4	107977		e, 316ss, 7.5" [Thermon Ass, 1/2" x 3/4" NPTM					
320	3	116705	GAUGE, TEMP, 5"	DIAL LF, 2—1/2"STEM, 50	-500deg.f Dual Adju	stable [trend,	SF52025]		
330 340	1 3	113155 123380		800∦RF X 3" 150∦RF, .70 K TYPE 316SS, 1/4" [TH					
345	3	124346	THERMOWELL, 304	4ss, 1/2" x 3/4" nptm	X 9" LONG, U=7.5", .:	260° BORE, STEF			
350 360	5 3	NPN-REQ 100315		, 4–20MA INPUT, 6–30P 30 PSIG, SUPPLIED WITH					
360 370	2	100315		50 psig, sopplied with E, BM, 4" lf, 0—600 ps					
380	1	104262	STRAINER, CONE,	6" 600# CS, 40 MESH,	100% FLOW AREA		-		
390 400	1	113543 105504		T, TYPE CGI, 316LSS, 1/ , TYPE 520, 316LSS, 1/0		STAMPED HANDI	LE.		
410	4	114016	TRANSMITTER, GAU	JGE PRESSURE, 0-800 P	SIG, CSA, [ROSEMOUNT				
420 430	1 4	114048 112801		/2 600∦RFX 2 150∦R NPT, 3000∦ WOG, RP, C					
435	2	127179		600# RF, RP, CS, NACE,					
440	2	122843		1" NPT, LCC, 1/2" OR,					
460 490	3	107884 124439		E, BM, 4" LF, 0-1000 P 4" 1500∦ CS, 40 MESH,		KA, 233.54j			
500	1	113534		T, TYPE CGI, 316LSS, 1/		C/W STAMPED H	ANDLE		
510 520	1	105383 114015		, TYPE 520, 316LSS, 1/8 JGE PRESSURE, 0-4000			COMIDACE		
520 530	1	116807		/2"900#RF X 2-1/2"300					
570	6	127180		600# RF, RP, CS, NACE,					
580 600	2	123562 102808		3" 600# RF, WCC, 3 7/		MER, 657-E1-4	9]		
610	1	109128	SPECTACLE BLIND	, 4" 600# RF, SA516-70	on, 5/8" THK		_		
620 630	1	102977		600∦ RF, RP, CS, BOLTE T, TYPE CGI, 316LSS, 1/					
	1	105266	***ORIFICE PLATE	, TYPE 520, 316LSS, 1/0	3" THK, 3" 900# RF				
			***ORIFICE GASKE		/8" THK. 4" 600# RF (***ORIFICE PLATE, TYPE 520, 316LSS, 1/8" THK, 3" 900∯ RF ***ORIFICE GASKET, TYPE CGI, 316LSS, 1/8" THK, 4" 600∯ RF C/W STAMPED HANDLE			
650	5	113532	***ORIFICE GASKE	T TYPE CGL 316LSS 1/					
640 650 660	5	113532	***ORIFICE GASKE	T, TYPE CGI, 316LSS, 1/					
650			***ORIFICE GASKE	Τ, ΤΥΡΕ CGI, 316LSS, 1/					
650				T, TYPE CGI, 316LSS, 1/					
650			AS BUILT						
850 660 2 1			AS BUILT ISSUE FOR CONST	TRUCTION	18" THK. 6" 300# RF 6 06/06/08 06/03/09	C/W STANPED HV	JLE		
850 660 2 1 0			AS BUILT ISSUE FOR CONST ISSUE FOR APP	TRUCTION	6* THK. 6* 300∦ RF 6 06/06/08 06/03/09 05/04/29	C/W STANPED HV			
850 660 2 1			AS BUILT ISSUE FOR CONS ISSUE FOR APP DESCRIPTI	ruction ?ROVAL ON	(8° THK, 6° 300∦ RF 6 06/06/08 06/06/08 06/03/09 05/04/29 DATE	C/W STANPED HV	JLE		
650 660 2 1 0 EV	47 St	113785 3555	AS BUILT ISSUE FOR CONS ISSUE FOR APP DESCRIPTI DESCRIPTI DESCRIPTI	IRUCTION PROVAL ON DPTES 12B 3R1 Canada Tel	ет пнк. 6" 3004 RF (06/06/08 06/03/09 05/04/29 DATE SION ENERFLEX . +1.403.236.6800	MGN MGN DLL/MGN MGN MGN MGN MGN MGN MGN MGN MGN MGN	JLE CHECKE BY		
2 1 0 Vw.e	47 St	113785	AS BUILT ISSUE FOR CONST ISSUE FOR APP DESCRIPTI DESCRIPTI PROCESS & EL JGK/4, FORT		ет пнк. 6" 3004 пг о 06/06/08 06/03/09 05/04/29 DATE SION EVERFLEX . +1.403.236.6800 XTION DIAGRA E, AIR-X-14 20RATION	MGN MGN DLL/MGN MGN DRAWN DRAWN BY Fax +1.403.2 M	JLE CHECKE BY		
2 1 0 2 1 0 EV TLE: DR:	47 St sult	113785	AS BUILT ISSUE FOR CONST ISSUE FOR APP DESCRIPTI DESCRIPTI PROCESS & EL JGK/4, FORT	TRUCTION TRUCTION TRUVAL ON T2B 3R1 Canada Tel T2B 3R1 Canada	ет пнк. 6" 3004 пг (06/06/08 06/03/09 05/04/29 DATE SION БУСАТОР (К-602.) LSD: 04- JOB NO.	MGN MGN DLL/MGN MGN DRAWN DRAWN BY Fax +1.403.2 M	JLE JLE CHECKE BY		



(C) ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

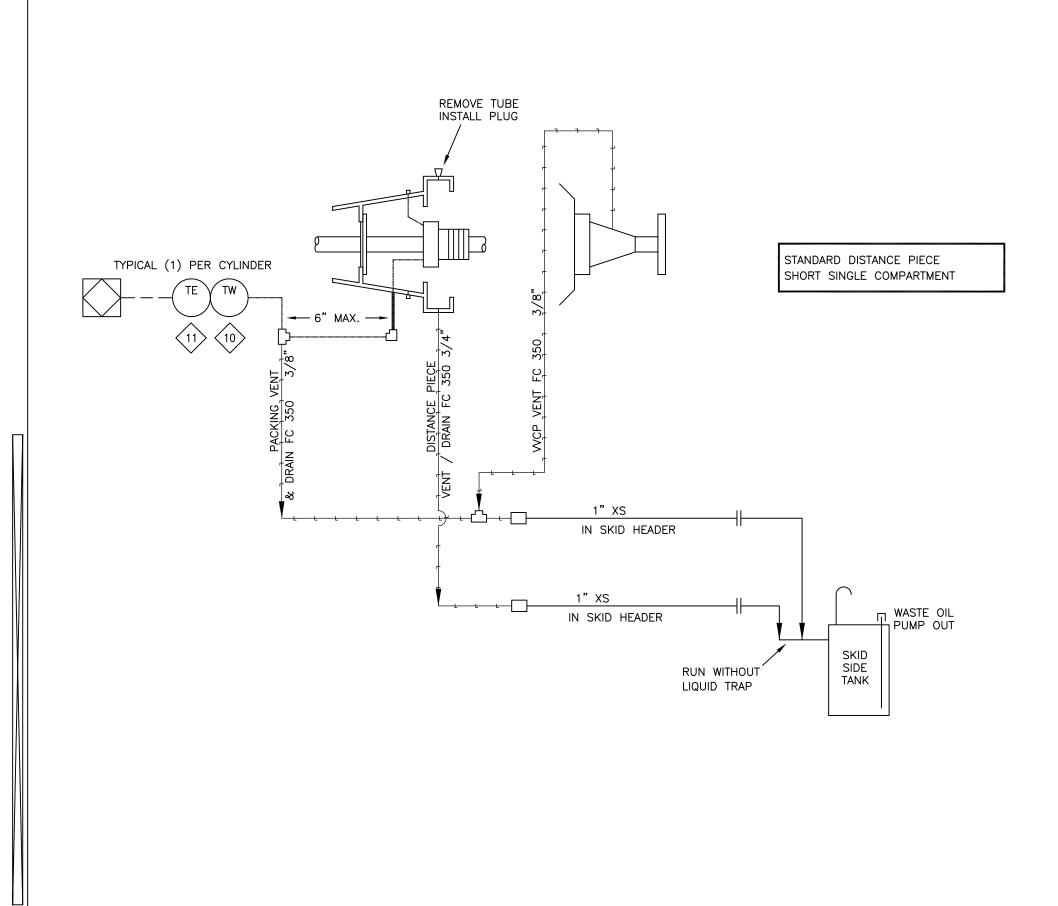
	οτν	EFX CODE	BILL OF MATERIAL
2	1	104966	COOLER, LUBE DIL [THERMAL TRANSFER, EK-1024-0]
4	1	107966	CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH, XP, CSA & BRACKET [KENCO, LCE-24]
6	1	110094	>>TANK, LUBE DIL MAKEUP, COMPRESSOR, INTEGRAL WITH CRANE RAIL PER EFX CRANE DWG
8	1	107987	TRANSMITTER, PRESSURE, 0-100 PSIG, SWEET, 1/4" NPT [WIKA, 892.13.500]
9	1	102802	VALVE, PLUG, 1/4" TUBE, 316SS [NUPRD, 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 [NAVCD, C1-R05S20A]
12	1	101240	COUPLING, ELBOW, 90 DEG, 1-1/2", STYLE 90 [DRESSER, 0090-0244-082]
13	1	121741	PUMP, DIAPHRAGM, 1/2" NPT, ALUM, SWEET GAS, CSA [WARREN RUPP, G05B1ABTXNSX00]
15	2	112860	SWITCH, DIGITAL NO-FLOW, PROGRAMMABLE, WHITLOCK DNFT-LED-PRG [ARIEL, A-10754]
16	6	102936	VALVE, BALL, 1" NPT, 2000# WOG, RP, A105 BODY, NACE C/W [NAVCO, H1-R10S20S]
17	2	112330	****T'CDUPLE ASSY C/W T'WELL, 304SS, 3/4" NPT, 60" [WIKA, AI8113-T02-U-14-60"-K-]
18	2	103698	VALVE, SET GAUGE, SWEET, 5/8'DD TUBULARX1/2'MNPT CS 600# QUEST-TEC [DANIEL, 1TC]
19	2	121735	FILTER, ASSEMBLY, DIL, 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 [NAVCD, C1-R02S20A]
21	1	117547	WIRE SUPPORT, COMPRESSOR VIBRATION SENSOR [AGS, W13750153492001]
22	1	117546	WIRE SUPPERT, CEMPRESSER SIDE DEER LAGS, W11350346452001]
23	1	110183C	TANK, DIL, 125L, B530
24	1	104295	FILTER, DIL, ASSEMBLY, 1' FNPT C/W BF915 ELEMENT & BASE FB1307 [BALDWIN, BL914]
25	1	102973	VALVE, BALL, 3/4" NPT, 2000# WDG, RP, 316SS, NACE C/W [NAVCD, C1-R07S20A]

2	AS BUILT	06/06/08	MGN	JLE
1	ISSUE FOR CONSTRUCTION	06/03/10	MGN	JLE
		1		
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
	DESCRIPTION	ion		

www.enerflex.com

SERVICE FLOW COMPRESSOR OIL SYSTEM-JGK/4 FRAME

F	FOR: FORT ENERGY CORPORATION						
	THUNDER GAS PLANT (K-602)						
	CONSULTANT: BDR ENGINEERING LSD: 04-05-61-05 W5M P.O.: - JOB No.: 051125					5 W5M	
1-		MGN	DESIGN BY:	JLE	DATE: 06/03/06	DWG. No.	OP#
	ATE: CALE:	06/03/10 NTS	CHKD BY: APPVD BY:	-	DATE: — DATE: —	SF-051125-20	20



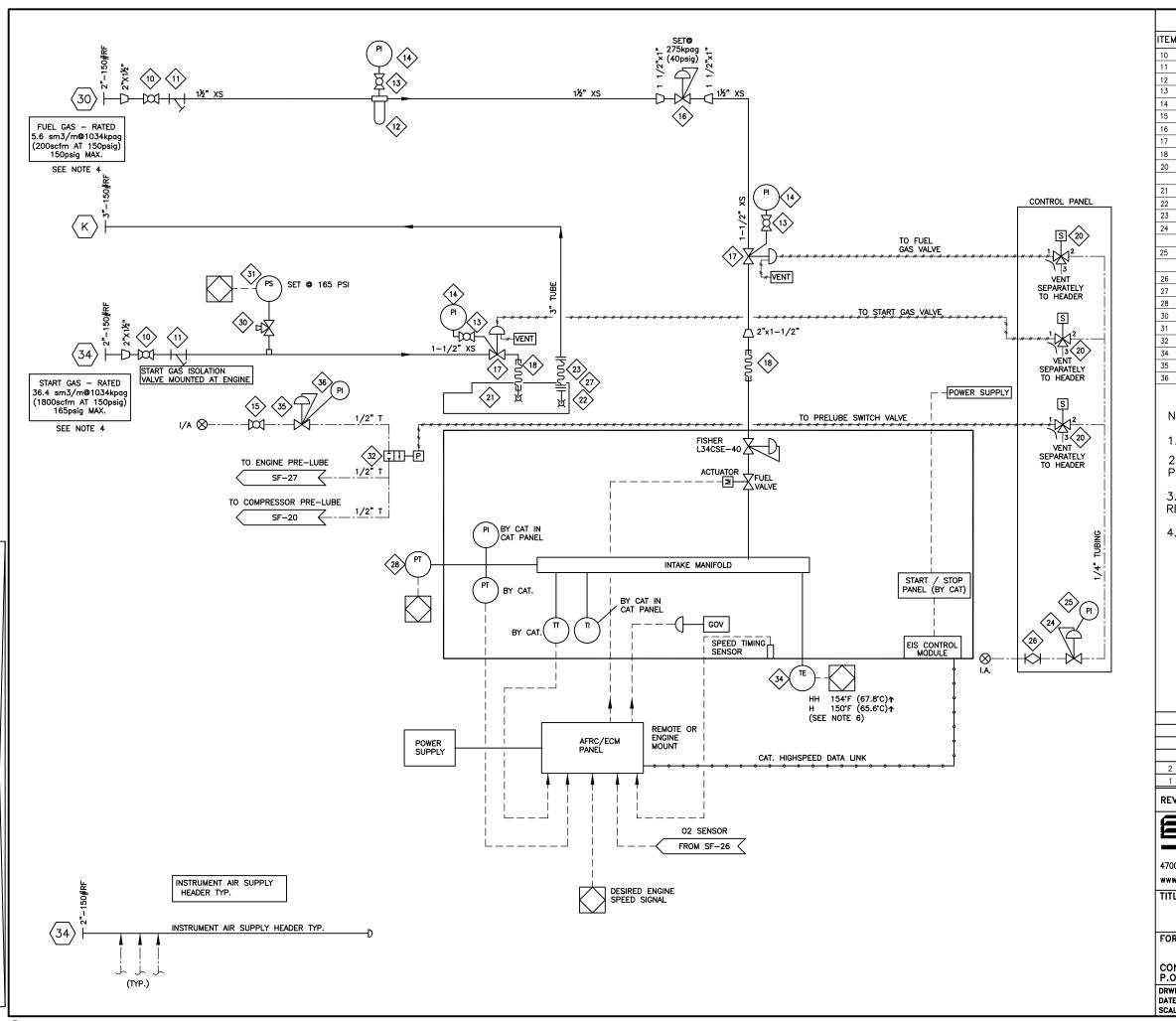
C ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

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-004.0B-82SYT2]				
	-						

<u>NDTE</u>

- 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

1											
2	AS BUILT	06/06/08	MGN	JLE							
1	ISSUED FOR CONSTRUCTION	06/03/10	MGN	JLE							
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY							
4700	47 Street SE Calgary AB Canada T2B 3R1 Canada Te enerflex.com	ENERFLEX	100 Fax +1.4	03.279.0367							
TITLE	E: SERVICE FLOW PACKING VENT & DRAIN SYSTEM	0 <h2s<10< th=""><th>00 PPM</th><th></th></h2s<10<>	00 PPM								
FOR:	FORT ENERGY CORPOR	RATION		FOR: FORT ENERGY CORPORATION							
	THUNDER GAS PLANT (K-602)									
CON P.O.:	THUNDER GAS PLANT (I SULTANT: BDR ENGINEERING :	LSD: 04-	-05-61-0 : 051125	5 W5M							
P.0.	SULTANT: BDR ENGINEERING : BY: MGN DESIGN BY: JLE DATE: 06/03/06	LSD: 04- JOB No.		5 W5M							



C ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

			BILL OF MATERIAL
ЕМ	QTY	EFX CODE	DESCRIPTION
)	2	102933	VALVE, BALL, 1-1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO C1-R15S20A]
	2	102830	STRAINER, Y, 1–1/2" NPT, 1480 PSIG MAWP, CS, 1/32" SS SCREEN [ALTA, YS–600]
2	1	115569	FILTER, 1–1/2" FNPT C/W 200–35–DX ELEMENT &SS PLUG [PARKER, C8312N–0A0–DX–S453]
5	3	102950	VALVE, BALL, 1/4" NPT, 2000# WOG, RP, 316SS NACE, C/W [NAVCO C1-R02S20A)
Ļ	3	107911	GAUGE, PRESSURE, BM, 2-1/2" LF, 0-300 PSI DUAL, 1/4" NPT [WIKA, 233.53]
;	1	102949	VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO C1-R05S20A]
5	1	104863	REGULATOR, 1" NPT, DI, 3/8" OR, 35-80# SPR RNG, SET @ 75 PSIG [FISHER, 627-494]
'	2	103762	VALVE, RELAY, GAS, 1-1/2" NPT, MAWP 450 PSI [TDI, RLVA25683001201]
3	2	104695	HOSE, BRAIDED STEEL, 2" MNPT X MALE NPT UNION X 12" LONG
)	3	NPN-REQ	VALVE, SOLENOID, 3-WAY, 24VDC, CSA, XP, EPNC 115PSI, NC SS [ASCO, EF8320G202-24]
			BY PANEL SUPPLIER
	1	103758	STARTER, AIR/GAS, STD 150–60 PSIG, INERTIA DUAL [TDI TURBOSTART, T112–60001–B1R]
2	1	103741	ELBOW, STARTER EXHAUST, 90 DEG, SR, 3" MNPT, CS [TDI, T100-27900]
3	1	120174	HOSE, STEEL BRAIDED, 3"- #150 RF x 3"- #150 RF, 10" LONG
ŀ	1	NPN-REQ	REGULATOR, 1/4" NPT, ALUM., 0–125#, TAPPED (W/O PI) [FISHER, 67CFR-601/SPEC]
			BY PANEL SUPPLIER
;	1	NPN-REQ	GAUGE, PRESSURE, CBM, 2" DRY, 0–60 PSI DUAL, 1/4" NPT [WIKA, 111.10]
			BY PANEL SUPPLIER
5	1	NPN-REQ	VALVE, PLUG, 1/4" TUBE, 316SS [NUPRO SS-4P4T) BY PANEL SUPPLIER
,	1	106497	FLANGE, RF, SCREWED, 3"- #150, SA-105N
3	1	107994	TRANSMITTER, PRESSURE, -30 HG/30 PSIG, SWEET, 1/4" (WIKA 892.13.500)
)	1	116812	VALVE, BALL, 3-WAY, 1/4" TUBE, 316SS, .125" ORIFICE [WHITEY, SS-42XS4]
	1	116977	SWITCH, PRESSURE, 500 MWP, 30-375R, 10-355F, XP, ALUM. [CCS, 6900GE18]
2	1	116700	VALVE, SWITCHING, 3-WAY, 1/2" NPT, 40-100 PSI [FISHER, 164A-81]
ŧ.	1	123380	THERMOCOUPLE, K TYPE 316SS, 1/4" [THERMOKINETICS, K250-316-S-010.0-B-82X-YM4-72]
5	1	104892	X-REGULATOR, 1/4" NPT, ALUM., 0-35#, TAPPED (W/O PI) [FISHER, 67CFR-362/SPEC]
5	1	107894	GAUGE, PRESSURE, CBM, 2" DRY, 0-200 PSI DUAL, 1/4" NPT [WIKA, 111.10]
5			

NOTES:

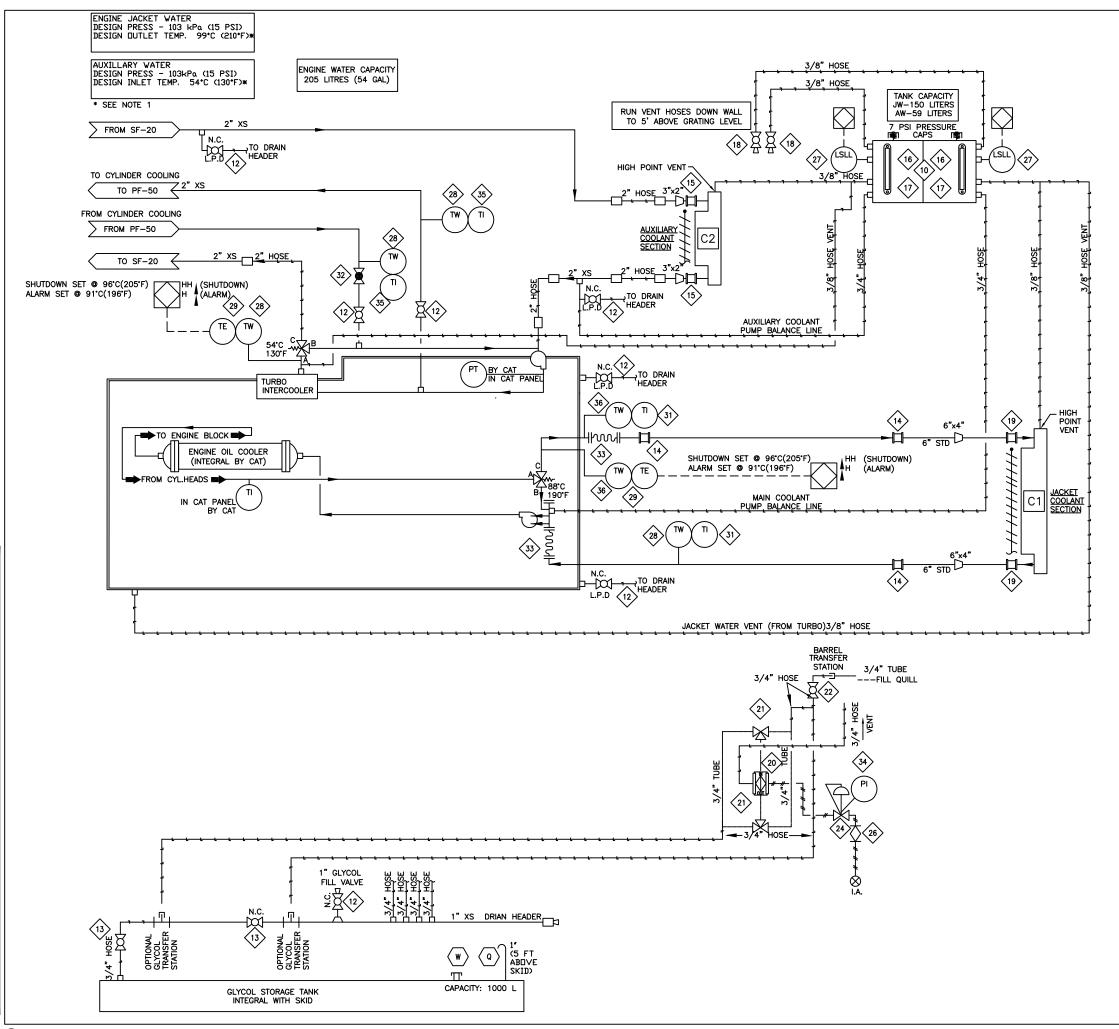
1. VENT START AND FUEL TO SEPARATE VENT HEADER.

2. ALL SERVICE LINES OPERATING ABOVE 103KPA(15 PSI) MUST BE PRESSURE TESTED PER THE PROCEDURE IN THE QC MANUAL.

3. INSTRUMENT REGULATORS C/W VENTED BONNETS ARE NOT REQUIRED ON INSTRUMENT AIR SERVICE.

4. SWEET CLEAN DRY GAS REQUIRED FOR BOTH FUEL AND START GAS.

	00/00/00							
AS BUILT	06/08/09	MGN	JLE					
ISSUE FOR CONSTRUCTION	06/03/10	MGN	JLE					
V DESCRIPTION	DATE	DRAWN BY	CHECKED BY					
00 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367 w.enerflex.com								
LE: SERVICE FLOW FUEL AND START GAS SYSTEM CATERPILLAR G3516-TALE								
R: FORT ENERGY CORPORATION								
FURI ENERGI CURPURA	ATION							
THUNDER GAS PLANT (K								
	-602) LSD: 04-	-05-61-05 : 051125	5 W5M					
THUNDER GAS PLANT (K INSULTANT: BDR ENGINEERING	-602) LSD:04- JOB No.		5 W5M OP#					



(C) ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

	BILL OF MATERIAL							
ITEM	ITEM QTY PART # DESCRIPTION							
10	1	109093	?-TANK, SURGE, 2-COMPARTMENT, 150/59L CAPACITY FOR L5108, L5790, L7042GSI/GL					
12	9	102926	VALVE, BALL, 3/4" NPT, 2000# WDG, RP, CS, NACE C/W LDCKING [NUTRDN, T3-R07S20S]					
13	2	102928	VALVE, BALL, 1' NPT, 2000# WOG, RP, CS, NACE C/W LOCKING INUTRON, T3-R10S20SL3					
14	з	101238	COUPLING, STRAIGHT, 6", STYLE 38 LDRESSER, 0038-0057-0113					
15	2	101235	CDUPLING, STRAIGHT, 3", STYLE 38 LDRESSER, 0038-0187-0113					
16	2	103698	VALVE, SET GAUGE, SWEET, 5/8'0D TUBULAR x 1/2'MNPT, CS, 500# (DANIEL 1TC)					
17	2	101257	5/8'DD 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	121741	PUMP, DIAPHRAGM, 1/2" NPT, ALUM, SWEET GAS, CSA [WARREN RUPP, G05B1ABTXNSX00]					
21	2	121379	VALVE, BALL, 3-WAY, 3/4" NPT, FULL SS, 800 PSI C/W LOCKING HANDLE [MAS, G4]					
22	5	102973	VALVE, BALL, 3/4" NPT, 2000# WDG, RP, 316SS, NACE C/W [NAVCD, C1-R07S20A]					
24	1	104872	REGULATOR, 1/4" NPT, ALUM., 0-125#, TAPPED (W/O PI) [FISHER, 67CFR-601/SPEC]					
26	1	102801	VALVE, PLUG, 3/8" TUBE, 316SS [NUPRE, SS-6P4T]					
27	5	104507	SWITCH, LEVEL, 1-1/2" NPT, XP, CSA, 316SS BODY, SOUR C/W SS [MURPHY, L1100SSSF]					
28	4	115504	THERMOWELL, 316SS, BTB STYLE 5B, 1/2" X 3/4" NPTM, U=2.5", .203" BORE					
29	5	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	109984	VALVE, GLOBE, 3/4" NPT, 800# WOG, CS [NAVCO, GL-R07S08A8]					
33	5	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 [WIKA, 111.10]					
35	2	107942	GAUGE, TEMP, 3' DIAL LF, 2-1/2' STEM, 0-250 DEG.F DUAL, 1/2'NPT [TREND, SF30025]					
36	2	118735	T'WELL, 316SS, 1/2" X 3/4" NPTM X 5.75" LG, U=4", .260" BORE [TEXAS THERMOWELL]					

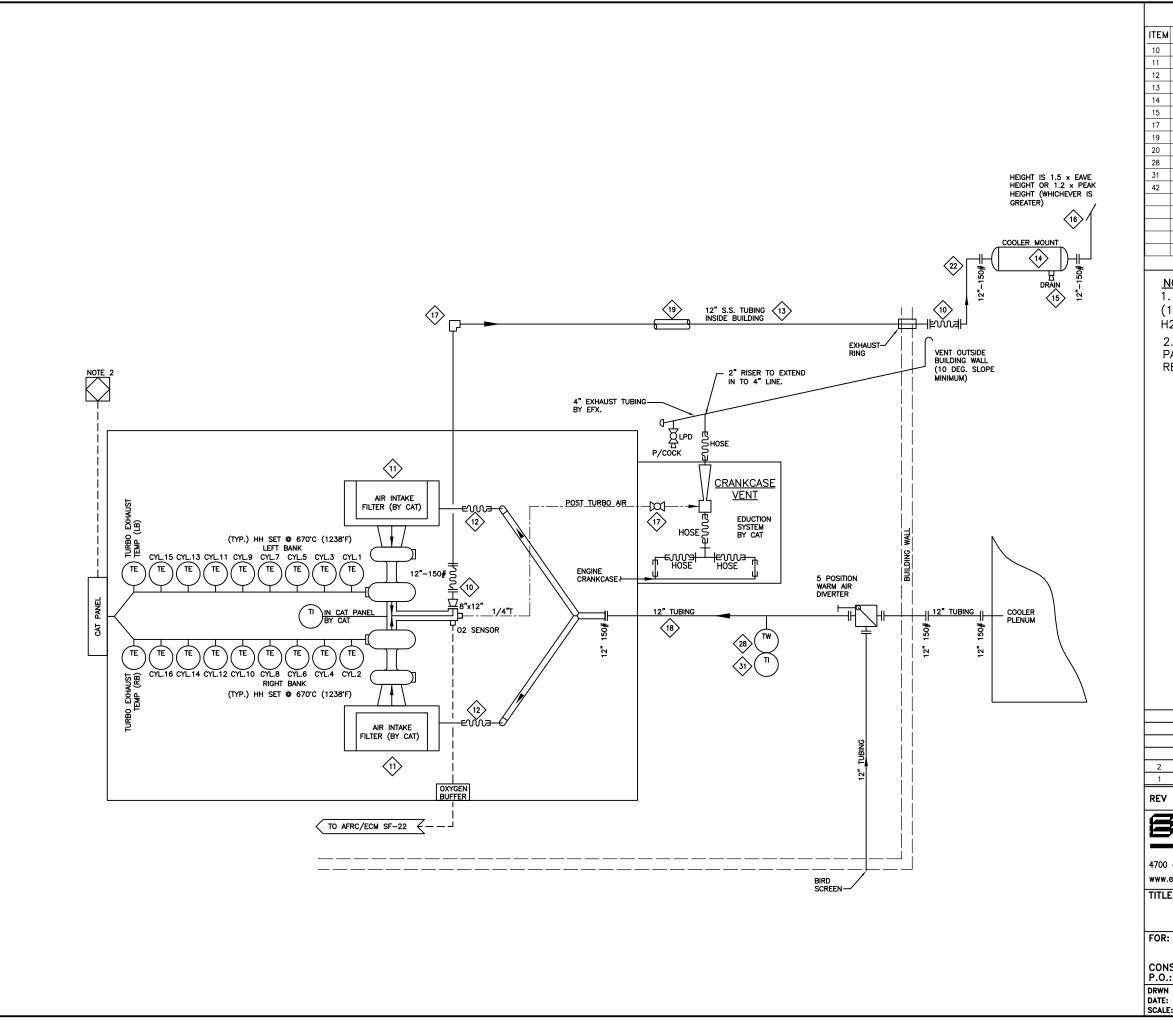
NOTES:

1. CONFIRM OPERATING TEMPERATURES.

ENGINE WATER CAPACITY 205 LITRES (54 GAL)

2	AS BUILT	06/06/09	MGN	ММ			
1	ISSUED FOR CONSTRUCTION	06/03/10	MGN	JLE			
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY			
	FX Compress						
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367 www.enerflex.com							
TITLE	TITLE: SERVICE FLOW ENGINE GLYCOL SYSTEM						

SERVICE FLOW							
ENGINE GLYCOL SYSTEM							
ARIEL JGK/4, CAT. G3516TALE, AXC 144ZF							
FOR: FORT ENERGY CORPORATION							
		THU	NDER	GAS PLANT ((K-602)		
CONSULTANT: BDR ENGINEERING LSD: 04-05-61-05 W5M P.O.: JOB No.: 051125					5 W5M		
DRWN BY:		DESIGN BY:	JLE	DATE: 06/03/06	DWG. No.	OP#	
DATE: SCALE:	06/03/10 NTS	CHKD BY: Appvd by:		DATE: DATE:	SF-051125-24	24	



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			BILL OF MATERIAL						
ΈМ	QTY	EFX CODE	DESCRIPTION						
0	2	104682	"EXPANSION BELLOW, 12"" 150# INTERNAL FLANGES C/W 2"" COLLAR & SS LINER X 12"" LONG"						
1	2	NPN-REQ	AIR FILTER BOX SUPPLIED BY CAT						
2	2	112314 "HOSE, STRAIGHT, RUBBER, 12"" ID [GOODYEAR, WD75-192]"							
3	30 104562 EXHAUST TUBING, MECHANICAL, 12"" OD X 10 GAUGE (.134"" WALL), ERW"								
4	1	NPN-REQ	"JE12-SISO - REACTIVE , SUPER HOSPITAL PLUS (40-55dBA)12.0 ", SIDE IN/SIDE OUT (SILEX)						
5	1	NPN-REQ	MUFFLER SUPPORT BUILT BY ENERFLEX						
7	1	102950	"VALVE, BALL, 1/4"" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R02S20A]"						
9	20	122061	"***INSULATION, FOR 12"" 150# SS EXHAUST LINE, NO AIR SPACE, CUSTOM"						
0	1	NPN-REQ	"EXPANSION BELLOW, 8""-150#, SUPPLIED BY CAT"						
8	1	115504	THERMOWELL, 316SS, BTB STYLE 5B, 1/2" X 3/4" NPTM, U=2.5", .203" BORE						
51	1	107940	GAUGE, TEMP, 3" DIAL, 4" STEM, 0–250 DEG.F DUAL, 1/2" NPT [TREND, 33040]						
2	2	112185	"ELBOW, EXHAUST, 90 DEG, SR, 12"" OD, 10 GAUGE, CS"						

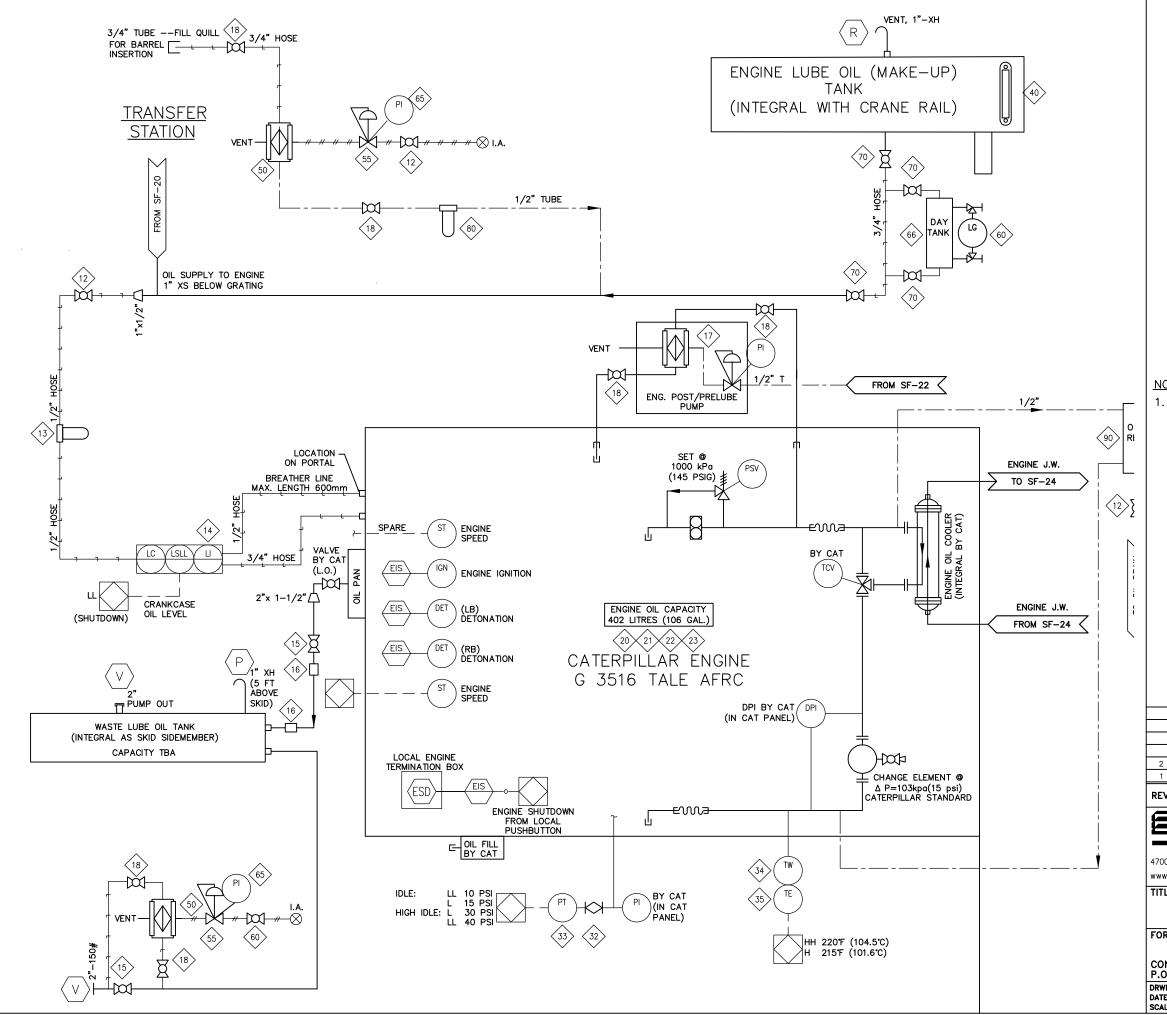
			Exhaust (B25)						
			DATE-TIME EXPORTED: 2005-05-18-13.34						

<u>NOTE</u>:

1. MAXIMUM PERMISSIBLE BACK PRESSURE (1775 BHP @1000 RPM IS 12".00 INCHES H20).

2. COMMUNICATION HARNESS FROM CAT. PANEL TO EFX CUSTOMER PANEL REQUIRED.

2	AS BUILT	06/06/09	MGN	мм
1	ISSUED FOR CONSTRUCTION	06/03/10	MGN	JLE
:v	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
w.enerflex.com	gary AB Canada T2B 3R1 Canada Tel. +	1.403.236.6800	Fax +1.403.2	79.0367
ſLE:	SERVICE FLOW			
	AIR & EXHAUST SYS			
AR	IEL JGK/4, CAT. G3516 TA	LE, AXC 14	4ZF	
R:	FORT ENERGY CORPO	RATION		
	THUNDER GAS PLANT (
ONSULTANT: BDR O.:		LSD: 04-	-05-61-05 : 051125	5 W5M
WN BY: MGN	DESIGN BY: JLE DATE: 06/03/06	DWG	i. No.	OP#
TE: 06/03/09 ALE: NTS	CHKD BY: DATE: APPVD BY: DATE:	SF-0511	25-26	26



(C) ENERFLEX SYSTEMS LTD REPRODUCTION OF ANY PORTION OF THESE MATERIALS WITHOUT THE EXPRESS WRITTEN CONSENT OF ENERFLEX SYSTEMS LTD IS STRICTLY PROHIBITED.

	BILL OF MATERIAL							
ITEM	QTY	EFX CODE	DESCRIPTION					
12	2	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	107969	CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH, XP, CSA C/W BRACKET [KENCO, KLCE-					
15	2	102951	VALVE, BALL, 2" NPT, 2000# WOG, RP, 316SS, NACE C/W LOCKING [NAVCO, C1-R20S20					
16	2	101245	COUPLING, STRAIGHT, 2", STYLE 90 [DRESSER, 0090-0005-082]					
17	1	119927	PUMP, DIAPHRAGM, 1" NPT, ALUM, GAS, CSA, REG/PI [WARREN RUPP, G1FB1ATTXNSX00]					
18	6	102926	VALVE, BALL, 3/4" NPT, 2000# WOG, RP, CS, NACE C/W LOCKING [NUTRON, T3-R07S2					
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 [WIKA, 892.13.500]					
34	1	115504	THERMOWELL, 316SS, BTB STYLE 5B, 1/2" X 3/4" NPTM, U=2.5", .203" BORE					
35	1	117910B	X-THERMOCOUPLE, K TYPE, 316SS [THERMOKINETICS, K125-316-S-007.5-B-82X000-0					
40	1	115052	INDICATOR, LEVEL, SIGHT GLASS WINDOW, 10" BOLT CENTERS, [MP FILTRI, LVA 30 TA]					
50	2	121741	PUMP, DIAPHRAGM, 1/2" NPT, ALUM, SWEET GAS, CSA [WARREN RUPP, G05B1ABTXNSX0					
55	2	104872	REGULATOR, 1/4" NPT, ALUM., 0-125#, TAPPED (W/O PI) [FISHER, 67CFR-601/SPEC]					
60	2	103698	VALVE, SET GAUGE, SWEET, 5/8"OD TUBULARX1/2"MNPT CS 600# QUEST-TEC [DANIEL,					
65	2	107894	GAUGE, PRESSURE, CBM, 2" DRY, 0-200 PSI DUAL, 1/4" NPT [WIKA, 111.10]					
66	1	110183C	TANK, OIL, 125L, B530					
70	4	102937	VALVE, BALL, 1" NPT, 2000# WOG, RP, 316SS, NACE C/W LOCKING [NAVCO, C1-R10S20					
80	1	104295	FILTER, OIL, ASSEMBLY, 1" FNPT C/W BF915 ELEMENT & BASE FB1307 [BALDWIN, BL914					
90	1	110183C	TANK, OIL, 125L, B530					

NOTE:

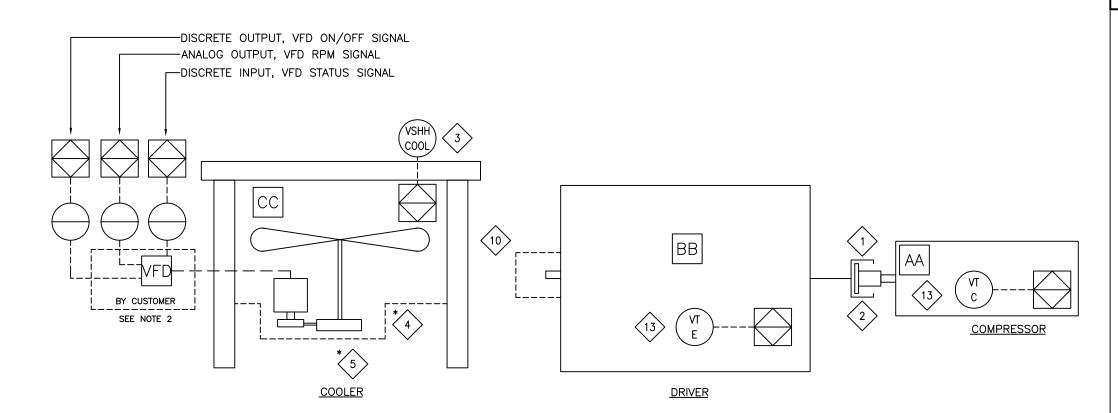
1. 1/2" PLUGGED SAMPLE POINTS TO BE PROVIDED.

	DESORT HOIL	DAIL	l BY	I BY
v	DESCRIPTION	DATE	DRAWN	CHECKED
	ISSUED FOR CONSTRUCTION	06/03/10	MGN	JLE
	AS BUILT	06/06/09	MGN	мм,

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

LE:	SERVICE FLOW									
А	RIEL JGK/4,	CAT. G3516 TA	LE, AXC 144ZF							
R:	<u> </u>	ENERGY CORPC								
	THUND	ER GAS PLANT	(K-602)							
NSULTANT: BDF D.:	ENGINEERING		LSD:04-05-61-05 JOB No.: 051125	5 W5M						
VN BY: MGN	DESIGN BY: JLE	, , ,	DWG. No.	OP#						
E: 06/03/10 LE: NTS	CHKD BY: APPVD BY:	DATE: DATE:	SF-051125-27	27						

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



FOR

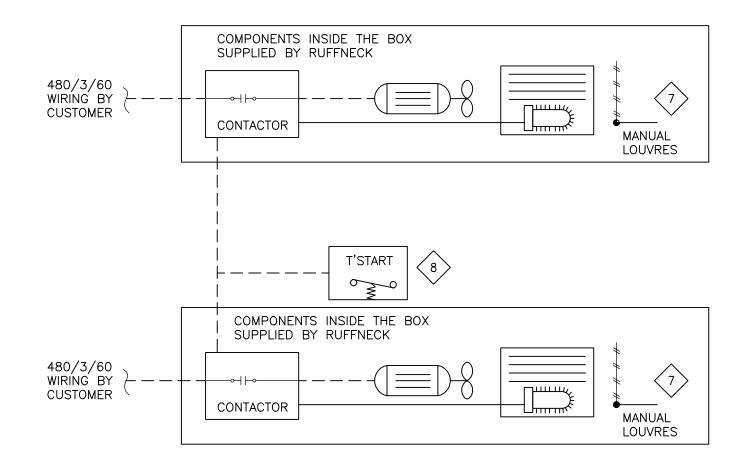
			BILL OF MATERIAL
Ν	QTY	EFX CODE	DESCRIPTION
	1	118598	COUPLING, ADAPTER PLATE 26.5" OD HD/SAE C/W STEEL HUB [FORMFLEX, FSH70-26B-GK]
	1	115047	GUARD, COUPLING, FIBERGLASS, ENERFLEX RED, PMS 188 AS PER QUOTE #01-143
	1	104524	SWITCH, VIBRATION, ELECTRIC C/W MANUAL RESET [MURPHY, VS2]
	1	NPN	COOLER DRIVE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

			BILL OF MATERIAL: M 124585 : SERVICE FLOW, DRIVE TRAIN, A1478. 4STG
			DATE-TIME EXPORTED: 2005-01-24-15.25

2. WIRING FROM PANEL TO CUSTOMER VFD BY CUSTOMER.

		AS I	BUILT		06/06/09	MGN	JLE
		ISSUED FOR	CONSTRU	ICTION	06/03/10	MGN	JLE
۷		DESCR			DATE	DRAWN BY	CHECKED BY
■ 4			-	Canada Tel. +1.403.23	RFLEX	279.0367	
LE:	:	SER	VICE	FLOW DRIVE	TRAIN		
	AR			AT. 3516 TAL		4ZF	
				8 4STG (OP			
R:		FO	RT FI	VERGY CORPO	RATION		
				GAS PLANT			
NS 2.:	ULTANT: BDR				LSD: 04-	-05-61-05 : 051125	5 W5M
VN I	BY: MGN	DESIGN BY:	JLE	DATE: 06/03/06		. No.	REV
E: LE:	/ /	CHKD BY: Appvd by:		DATE: - DATE: -	SF-0511		28

NOTE: 1. * SUPPLIED BY VENDOR



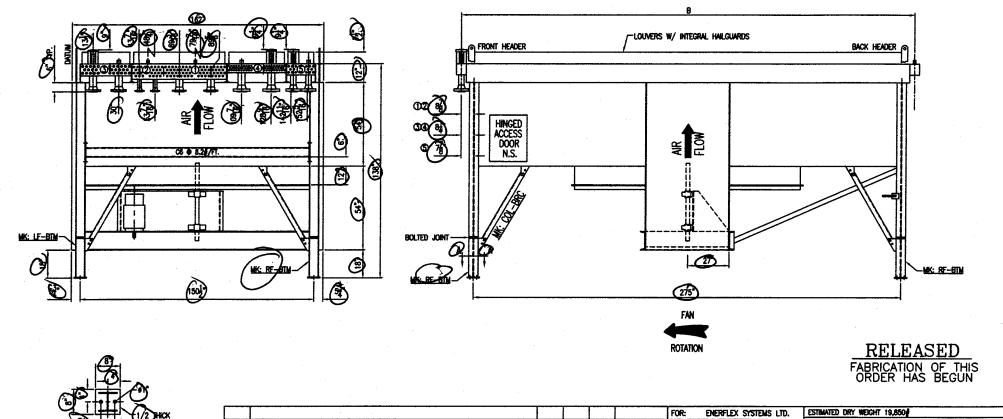
BUILDING EQUIPMENT AND CONTROLS

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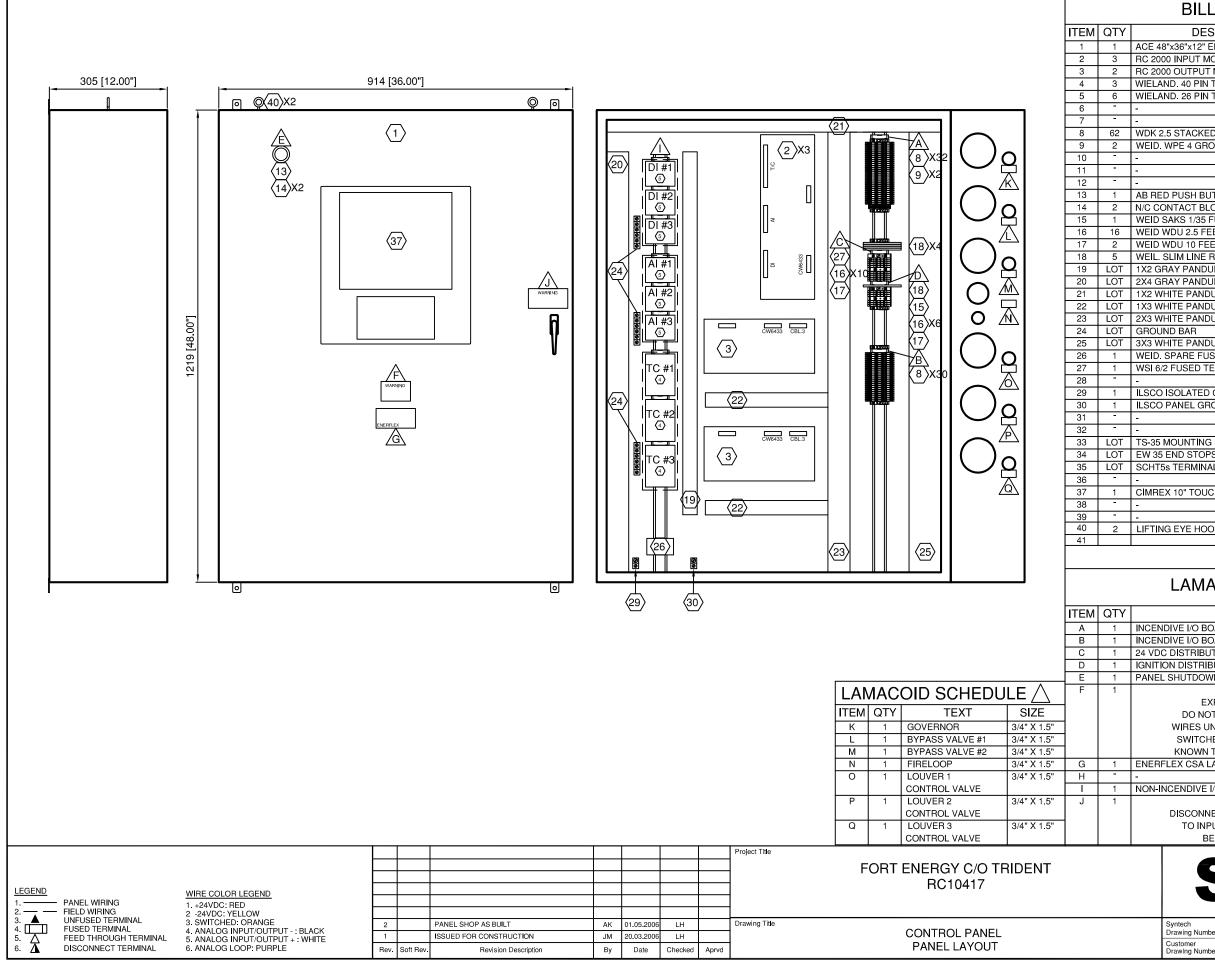
			BILL OF MATERIAL
ІТЕМ	QTY	EFX CODE	DESCRIPTION
7	2	104647	HEATER, ELECTRIC, 20 KW, 480V/3/60HZ, XP, CSA, [RUFFNECK, FX416-480360-20]
8	1	104651	THERMOSTAT, 5-25 DEGC RANGE, 120/240V, XP, CSA, WALL MOUNT, EDEFENDER, XT-3113
			BILL OF MATERIAL: M BASE TEMPLATE : ASSEMBLY, HEATERS, A1478

2		AS BUILT		06/06/09	MGN	JLE
1	ISSUE	D FOR CONSTR	RUCTION	06/03/10	MGN	JLE
REV		DESCRIPTION	N	DATE	DRAWN BY	CHECKED BY
f	∃ FX C	omp	ressio	n		
w	700 47 Street SE Calgar ww.enerflex.com	y AB Canada T2	2B 3R1 Canada Tel. +1.40	13.236.6800 Fax +1.	403.279.0367	
	ww.enerflex.com	JILDING E	SERVICE FLOW QUIPMENT AND	CONTROL	403.279.0367	
TITLE	ww.enerflex.com	JILDING E	SERVICE FLOW	CONTROL	403.279.0367	
w	ww.enerflex.com	JILDING EG	SERVICE FLOW QUIPMENT AND	CONTROL 72)	403.279.0367	
TITLE	ww.enerflex.com	JILDING EG A147 FORT E	SERVICE FLOW QUIPMENT AND 78–4 STG (OP	CONTROL 72) RATION)	403.279.0367	
TITLE: FOR:	ww.enerflex.com : Bl :: :: :: :: :: : : : : : : : : : :	JILDING EC A147 FORT E THUNDEF	SERVICE FLOW QUIPMENT AND 7 8-4 STG (OP NERGY CORPOI	CONTROL 72) RATION) (K-602) LSD: 04-	403279.0367 -05-61-0 : 051125	5 W5M
FOR: CONS P.O.:	ww.enerflex.com Bl SULTANT: BDR ENG BY: MGN DESI	JILDING EC A147 FORT E THUNDEF	SERVICE FLOW QUIPMENT AND 78–4 STG (OP NERGY CORPO R GAS PLANT (CONTROL 72) RATION) (K-602) LSD: 04- JOB No.	-05-61-0	5 W5M

ITE	SERVICE	MAWP	CODE	NOZZ	ZLES	COUPLING	REF. DI	ENSION	LOUVERS	BUG SCREEN	DRIVE	FAN	FINISH
1115	GERVICE	REATER	OODE	INLET	OUTLET	VENT/TEMP	B	C	LOUVERO	DOG GONEEN	ELECTRIC MOTOR DRIVE SHEAVES, BELTS, AND	1440 MOORE 10K, 60 HD, VT	STRUCTURE
	EJW (COMBINED) 69 GALS	14 PSI @ 300/-20'F	NONE	4-150# RFWN	4-150# RFWN	1−3000#	292.75	-	MANUAL		GUARDS BY AIR-X-HEMPHILL	12-BLADE 12' PA, LH ROTATION 240 RPM @ 45.4 HP REO'D	STRUCTURE STD. PRIMER W/ WARM GRAY
2	AUX-W (COMBINED) 34 GALS	14 PSI @ 300/-207F	NONE	2-150# RFWN	2-150# RFWN		29 2.75	-	RANGAL	NONE	50 HP, 1800 RPM, 3P, 60 HZ, 460V, TEFC, VFD,		ENAMEL TOP COAT
3	<i>I</i> C−1	645 PSI @ 350/-40°F	ASME	4-300# RFWN	4-300# RFWN	2300 RFWN 16000	291.50	-	AUTO	NUNC.	CSA ELECTRIC MOTOR	#2.6875 BORE	
4	Ю-2	1292 PSI @ 350/-40'F	ASME	4-600 # RFWN	4-600 RFWN	1.5-600 RFWN 1-6000	291.50	-	AUTO			WITH .625 x .3125 KWY.	540 OU020
5	AC	1935 PSI 9 350/-40'F	ASME	3-900# RFWN	3-900# RFWN	1.5-900 AFWN 1-6000	290.75	-	AUTO				FAN GUARD GALVANIZED



						FOR: ENERFLEX SYSTEMS LTD.	ESTIMATED DRY WEIGHT 19,850
						P.O. NO: 0540836, 37, 38, 39,	
						CUST. TAG: 051124, 25, 26, 27	
						USER: FORT ENERGY	AXH alr-coolers
						JOBSITE: AB, CANADA -	CERTIFIED DRAWING FOR:
						JOB NO: 64463	MODEL 144 ZF QUANTITY: 4
						WORK ORDER NO:	
	· · · · · · · · · · · · · · · · · · ·	1				DR: LES DATE: 02/21/06	- DWG. NO. 64463-CRT
REV	REVISION DESCRIPTION	BY	СК	APP	DATE	CK: M.B. DATE: 02/21/06	SCALE: FULL DATE: 02/21/06 REV 0



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DESCRIPTION	MODEL #
3"x36"x12" ENCLOSURE c/w FEET	ACE483612
0 INPUT MODULE	CW4769-1
0 OUTPUT MODULE	CW5218-2
ND. 40 PIN TERMINATION BLOCK	87.210.2208.3
ND. 26 PIN TERMINATION BLOCK	87.210.2005.3
	-
	-
5 STACKED FEED THROUGH TERM.	102150
WPE 4 GROUND TERMINAL	101010
	-
	-
	-
D PUSH BUTTON	800T-FX6
NTACT BLOCK	800T-XD2P
SAKS 1/35 FUSED TERMINAL	50162
WDU 2.5 FEED THROUGH TERMINAL	102000
WDU 10 FEED THROUGH TERMINAL	102030
SLIM LINE RELAY	80.010.4000.0
RAY PANDUIT	F1X2LG6
RAY PANDUIT	F2X4LG6
HITE PANDUIT	F1X2WH6
HITE PANDUIT	F1X3WH6
HITE PANDUIT	F2X3WH6
ND BAR	
HITE PANDUIT	F3X3WH6
SPARE FUSE HOLDER	7914760001
2 FUSED TERMINALS	101400
	-
ISOLATED GROUND LUG	
PANEL GROUND LUG	
	-
	-
MOUNTING RAIL	38340
END STOPS	38356
S TERMINAL STRIP MARKERS	163193
X 10" TOUCH SCREEN c/w KEYPAD	RC2000-10T
	-
	-
G EYE HOOKS	BS12/312A

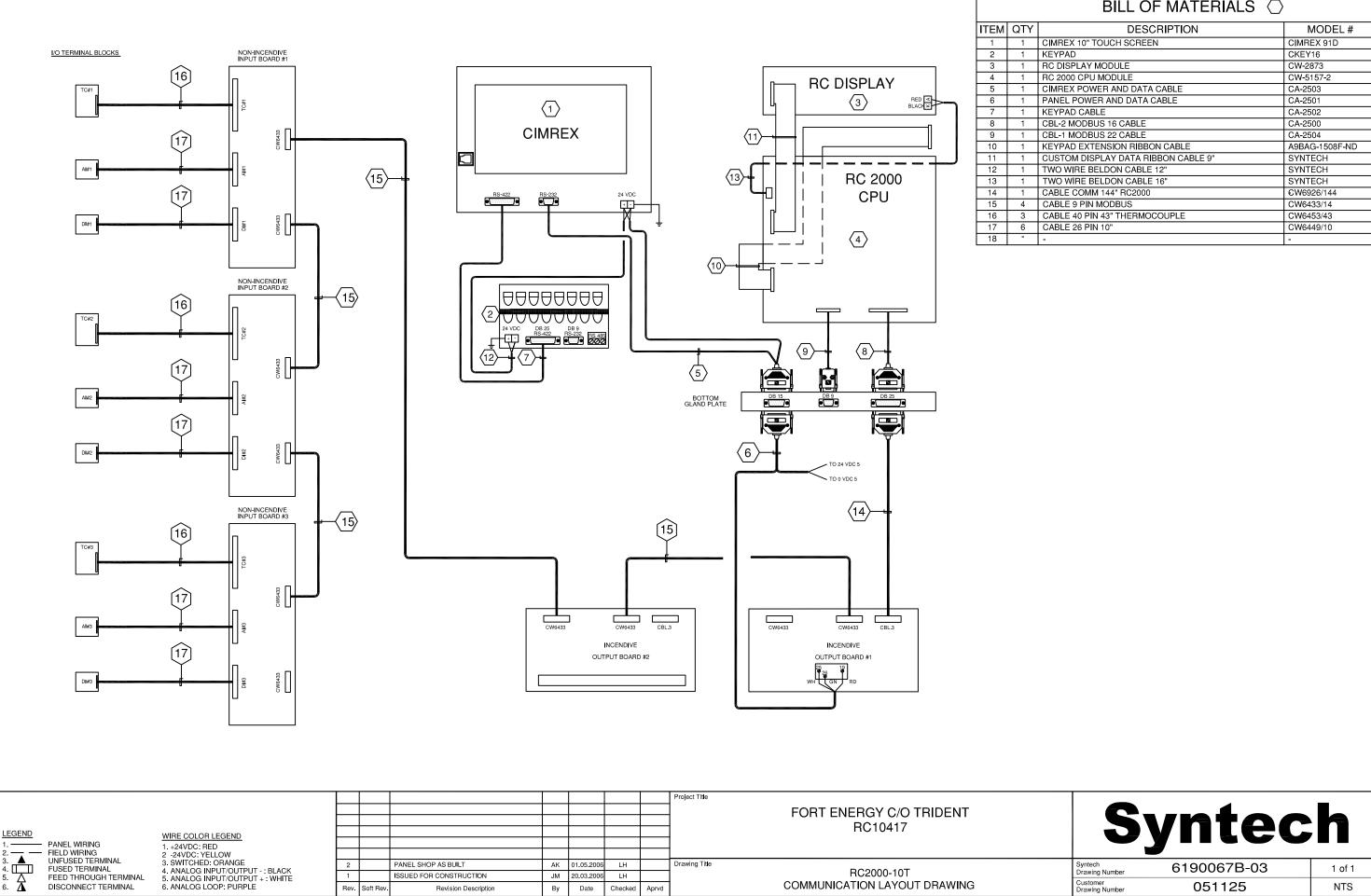
LAMACOID SCHEDULE \triangle

Т	EXT	SIZE	
NDIVE I/O BOARD #1		SCHT5s	
NDIVE I/O BOARD #2		SCHT5s	
OC DISTRIBUTION		SCHT5s	
ION DISTRIBUTION		SCHT5s	
EL SHUTDOWN		1" X 3"	
WARNIN	١G	2" x 3"	
EXPLOSION I	HAZARD		
DO NOT REPLACI	E FUSES OR	WHT/RED)
WIRES UNLESS PO	WER HAS BEEN		
SWITCHED OFF OF	R THE AREA IS		
KNOWN TO BE NOM	I-HAZARDOUS		
RFLEX CSA LAMACOID		2" X 4"	
		-	
INCENDIVE I/O		SCHT5s	
WARNIN	NG :	2" x 4"	
DISCONNECT CABLE	E CONNECTION		
TO INPUT / OUTP	UT BOARDS	WHT/RED)
BEFORE WE	LDING		
Sy	/nte	e C	h
Syntech Drawing Number	6190067B-01		1 of 1

051125

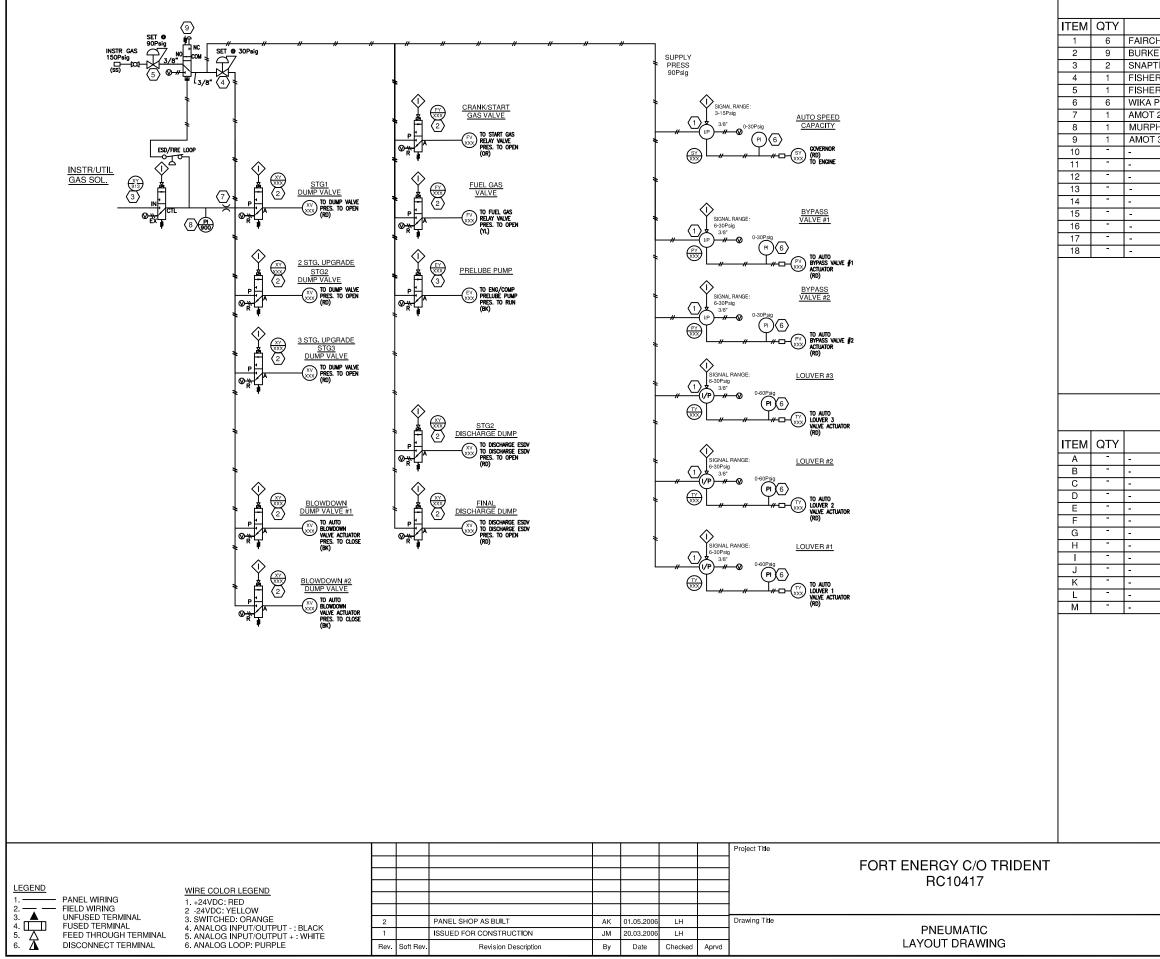
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BILL OF MATERIALS \bigcirc	
DESCRIPTION	MODEL #
X 10" TOUCH SCREEN	CIMREX 91D
D	CKEY16
PLAY MODULE	CW-2873
0 CPU MODULE	CW-5157-2
X POWER AND DATA CABLE	CA-2503
POWER AND DATA CABLE	CA-2501
D CABLE	CA-2502
MODBUS 16 CABLE	CA-2500
MODBUS 22 CABLE	CA-2504
D EXTENSION RIBBON CABLE	A9BAG-1508F-ND
M DISPLAY DATA RIBBON CABLE 9"	SYNTECH
IRE BELDON CABLE 12"	SYNTECH
/IRE BELDON CABLE 16"	SYNTECH
COMM 144" RC2000	CW6926/144
9 PIN MODBUS	CW6433/14
40 PIN 43" THERMOCOUPLE	CW6453/43
26 PIN 10"	CW6449/10
	-



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BILL OF MATERIALS \bigcirc	
DESCRIPTION	MODEL #
HILD I/P	TCXI17800-401E2
RT SOLENOID	428871Y
ITE SOLENOID	3013Z-ZNT-V6F6
R TYPE 67 REGULATOR 30 psi	67-CFR-362-SPEC
R TYPE 64 REGULATOR 90 psi	64-29
PRESSURE GAUGE 0-30 PSI	9603021
2185 ORFICE	2185L011
HY PRESSURE GAUGE 0-100psi	45A 25PEF100
3-WAY ESD SWITCH	4057DO23H2
	-
	-
	-
	-
	-
	-
	-
	-
	-

LAMACOID SCHEDULE riangle

TEXT	COLOR: TEXT/BACKGROUND	SIZE
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-



NTS

0
Customer
Dreuder Number
Drawing Number

24VDC POWER DISTRIBUTION

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LEGEND

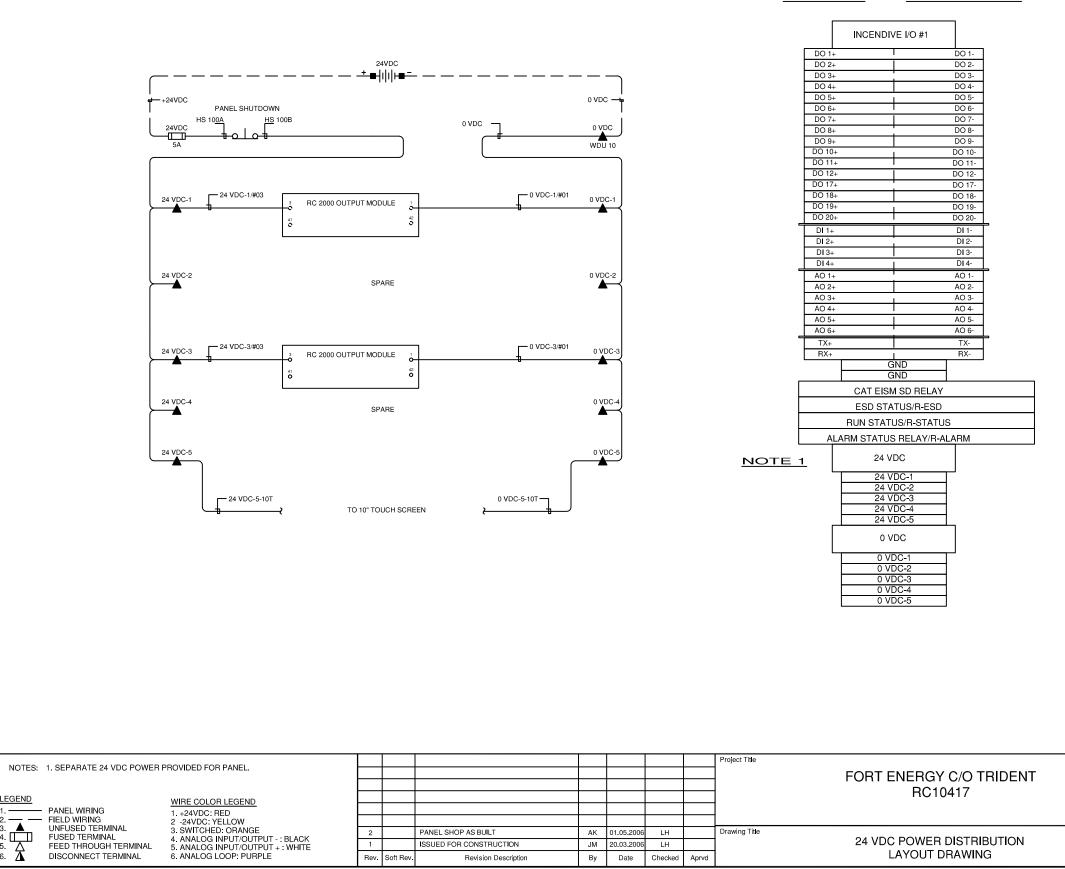
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24VDC TERMINAL LAYOUT

TOP LEVEL

BOTTOM LEVEL

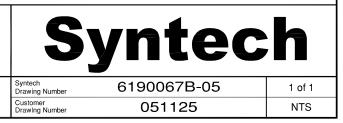


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TOP LEVEL

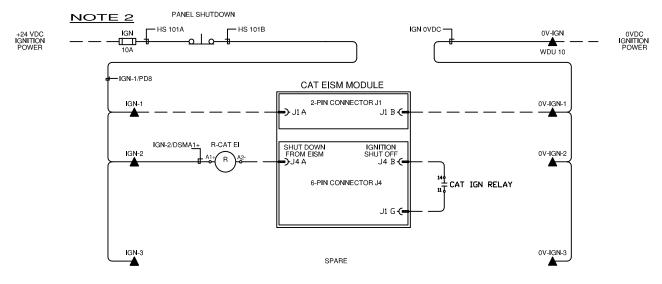
BOTTOM LEVEL

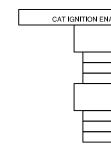
	INCENDIVE I/O #2	
DO 21+	DO 21-	٦
DO 22+	DO 22-	
DO 23+	DO 23-	
DO 24+	DO 24-	
DO 25+	DO 25-	
DO 26+	DO 26-	
DO 27+	DO 27-	٦
DO 28+	DO 28-	٦.
DO 29+	DO 29-	٦.
DO 30+	DO 30-	٦.
DO 31+	DO 31-	٦.
DO 32+	DO 32-	
DO 33+	DO 33-	٦
DO 34+	DO 34-	٦
DO 35+	DO 35-	٦
DO 36+	DO 36-	٦.
DO 37+	DO 37-	٦
DO 38+	DO 38-	٦.
DO 39+	DO 39-	٦.
DO 40+	DO 40-	
DI 5+	DI5-	Τ
DI 6+	DI6-	1
DI 7+	DI 7-	٦
DI 8+	DI 8-	
AO 7+	AO 7-	T
AO 8+	AO 8-	
AO 9+	AO 9-	
AO 10+	AO 10-	1
AO 11+	AO 11-	
AO 12+	AO 12-	



IGNITION DISTRIBUTION







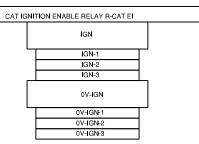
NOTES:										Project Title			
2. THE FUSE SHOULD BE TIME-DELAYED CERAMIC C1D2 RATED.										FORT ENERGY C/O TRIDENT			
2. 111210	2. THE FUSE SHOULD BE TIME-DELATED GENAMIC GIDZ RATED.									RC10417			
LEGEND		WIRE COLOR LEGEND											
1	PANEL WIRING 1. +24VDC: RED												
	2. — FIELD WIRING 2 -24VDC: YELLOW 3. UNFUSED TERMINAL 3. SWITCHED: ORANGE	2 -24VDC: YELLOW											
4.					3. SWITCHED: ORANGE 4. ANALOG INPUT/OUTPUT - : BLACK		2		PANEL SHOP AS BUILT	AK	01.05.2006	LH	
5. FEED THROUGH TERMINAL 5	4. ANALOG INPUT/OUTPUT - : BLACK 5. ANALOG INPUT/OUTPUT + : WHITE 6. ANALOG LOOP: PURPLE	1		ISSUED FOR CONSTRUCTION	JM	20.03.2006	LH		IGNITION POWER DISTRIBUTION				
		Rev.	Soft Rev.	Revision Description	Ву	Date	Checked	Aprvd	LAYOUT DRAWING				
			•										

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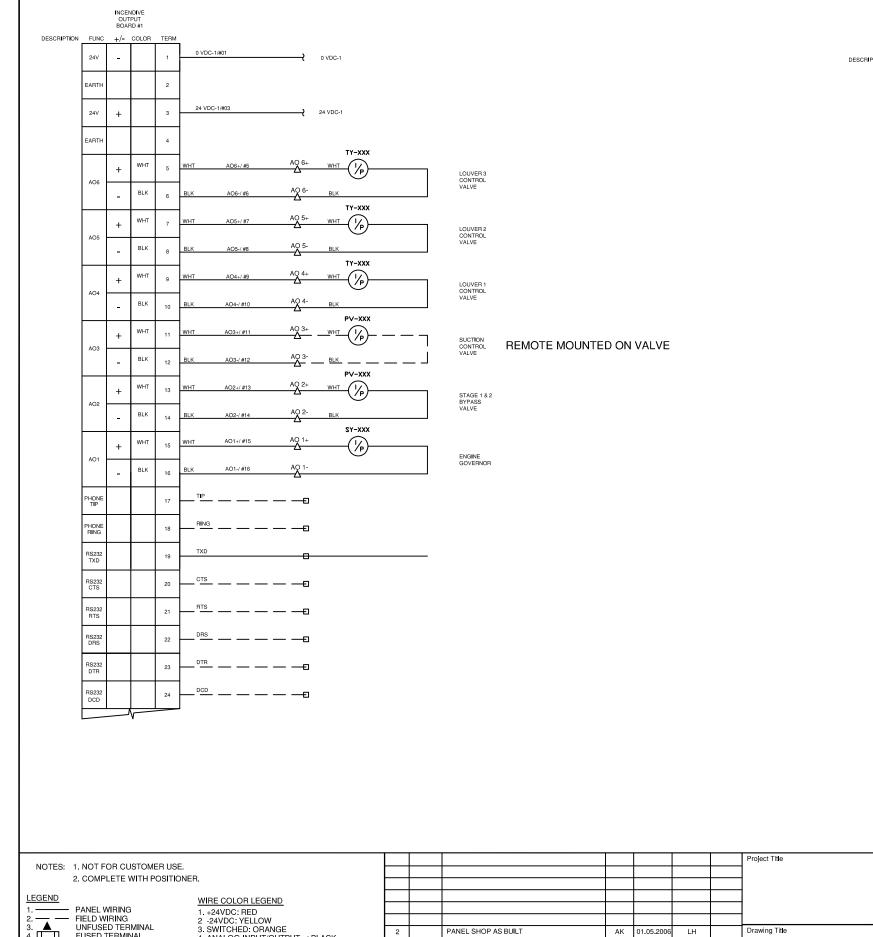
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IGNITION TERMINAL LAYOUT







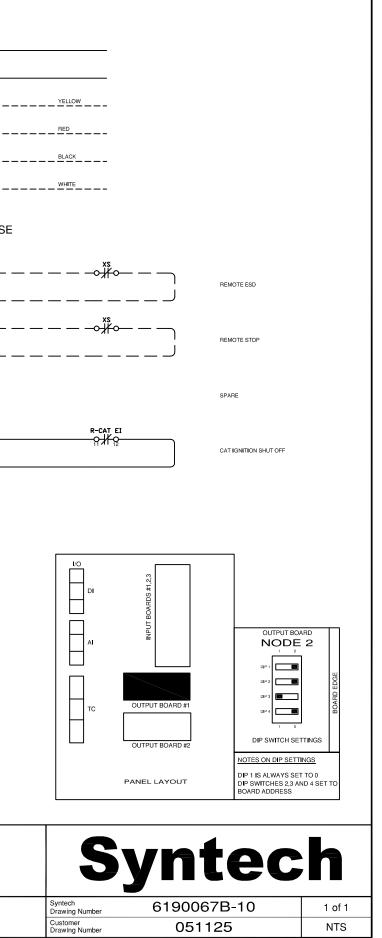
DESCRIPTION FUNC +/- COLOR TERM BXD RS232 RXD RS 232 GND RS232 GND RS 422 TX-/RS 485-RS422 TX RS 422 TX+/RS 485+ BEL + 28 422 RX BLAC -RS422 RX 422 RX + WHIT + NOT FOR CUSTOMER USE RS485 DI4+/#33 + OR D**I**04 DI4-/#34 YE DI3+/#35 DI 3+ + OR DIO3 DI3-/#36 YE DI2+/#37 OR + DI02 DĮ 2 DI2-/#38 YEL D**l**1+/#39 D**i** 1-OR + DI01 D**I**1-/#40 DI 1 YEL

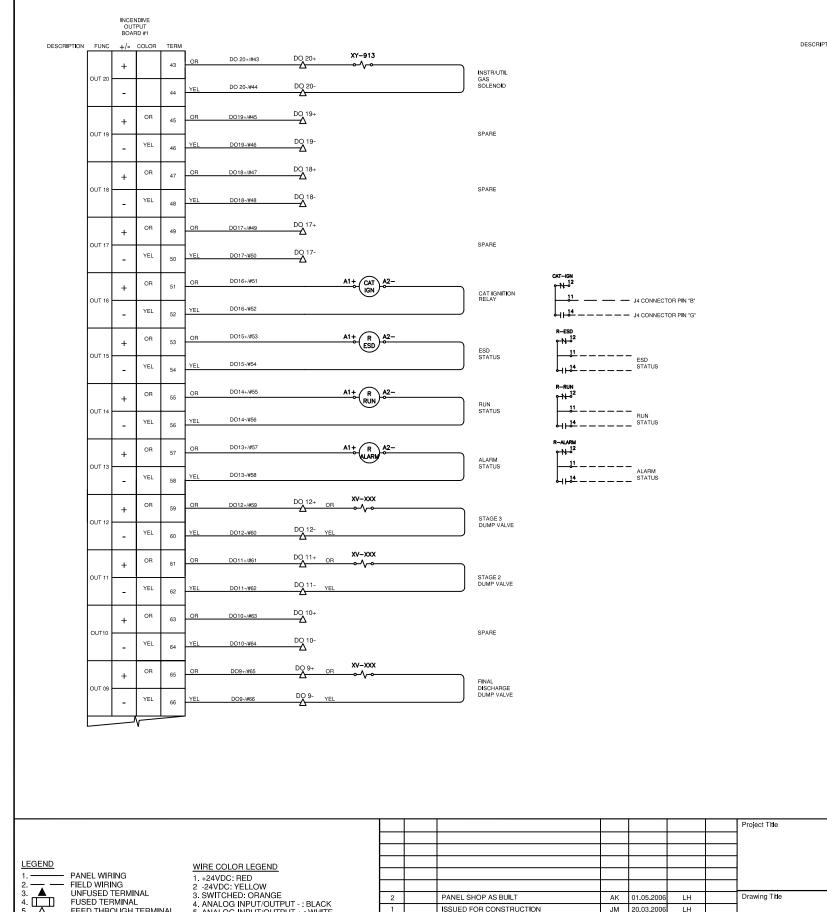
INCENDIVE OUTPUT BOARD #1

									_	
NOTES: 1. NOT FOR CUSTOMER USE.										Project Title
										FORT ENERGY C/O TRIDENT
	2. COMPLETE WITH POSITIONER.									RC10417
LEGEND		WIRE COLOR LEGEND								RG10417
1	PANEL WIRING									
	- FIELD WIRING 2 -24VDC: YELLOW	2 -24VDC: YELLOW								
	UNFUSED TERMINAL FUSED TERMINAL	3. SWITCHED. ONANGE	2		PANEL SHOP AS BUILT	AK	01.05.2006	LH		Drawing Title
5 5	☐ FUSED TERMINAL 4. ANALOG INPUT/OUTPUT - : BLACK ▲ FEED THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT + : WHITE	1		ISSUED FOR CONSTRUCTION	JM	20.03.2006	LH		INCENDIVE OUTPUT BOARD #1	
	6. ANALOG LOOP: PURPLE	Rev.	Soft Rev.	Revision Description	Ву	Date	Checked	Aprvd	LAYOUT DRAWING	

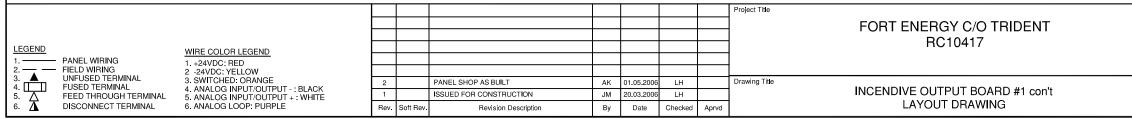
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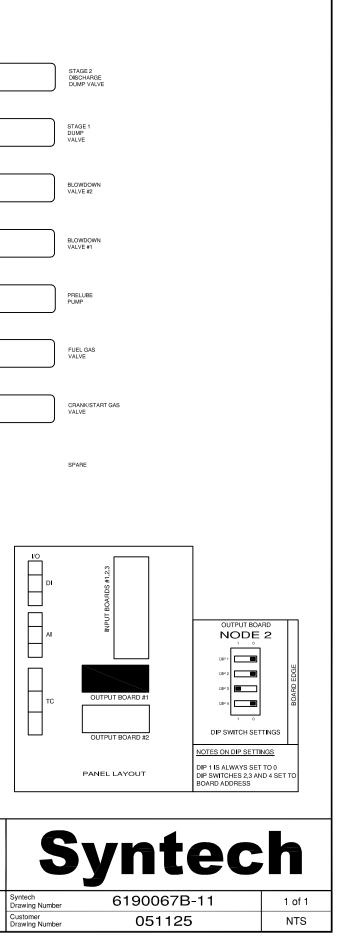


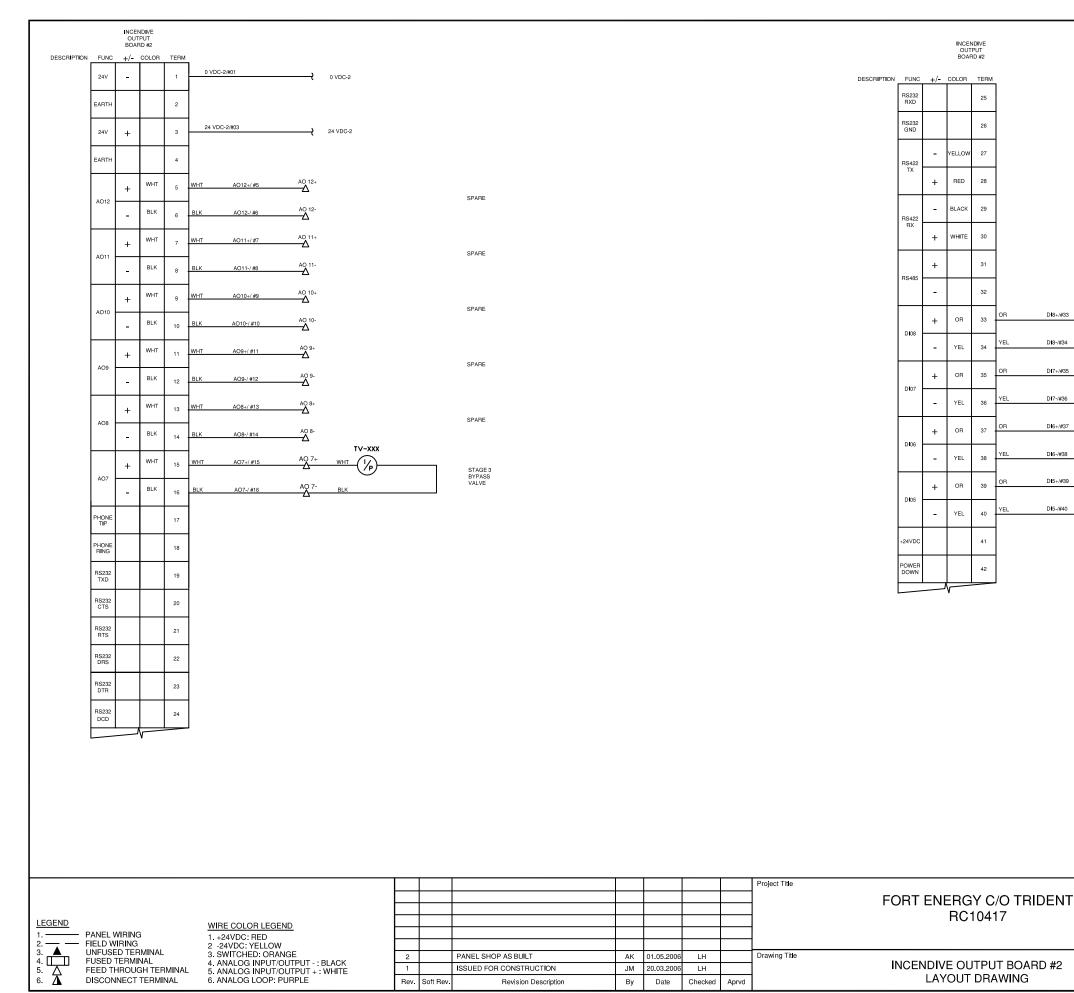
		INCE OUT BOAF	NDIVE PUT RD #1							
RIPTION	FUNC	+/-	COLOR	TERM						
		+	OR	67	OR	DO8+/#67	DO 8+	OR	xv–xxx —⊶∕~-∽	
	OUT 08	-	YEL	68	YEL	DO8-/#68	DO 8-	YEL		
		+	OR	69	OR	DO7+/#69	DO 7+		xv–xxx ⊸∿-∿	
	OUT 07	-	YEL	70	YEL	DO7-/#70	DO 7-			
		+	OR	71	OR	DO6+/#71	DO 6+	OR	xv–xxx ⊸∿-∿	
	OUT 06	-	YEL	72	YEL	DO6-/#72	DO 6-	YEL		
		+	OR	73	OR	DO5+/#73	DO 5+	OR	xv–xxx —⊶∕~⊶	
	OUT 05	-	YEL	74	YEL	DO5-/#74	DO 5-	YEL		
	OUT 04	+	OR	75	OR	DO4+/#75		OR	ev−xxx •-∕-•	
		_	YEL	76	YEL	DO4-/#76	DO 4-	YEL		
	OUT 03	+	OR	77	OR	DO3+/#77	DO 3+		FV−XXX ∿	
		_	YEL	78	YEL	DO3-/#78	DO 3-			
		+	OR	79	OR	DO2+/#79	DO 2+		FV−XXX —⊶∕√-⊶———	
	OUT 02	-	YEL	80	YEL	DO2-/#80	DO 2-			
		+	OR	81	OR	DO1+/#81	DO 1+			
	OUT01	-	YEL	82	YEL	DO1-/#82	DO 1-			
				83			_			
	NC									
				84						



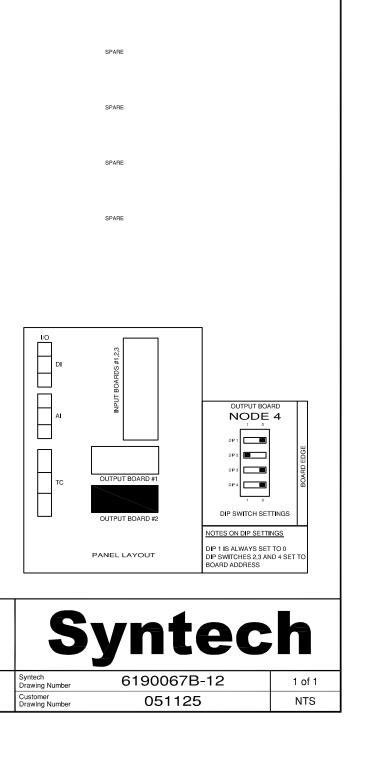
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D**I**8+/#33

D**I**8-/#34

D17+/#35

D17-/#36

DI6+/#37

DI6-/#38

DI5+/#39

DI5-/#40

DI8+ —∆

__∆

DI6-−∆

DI5---∆

		INCEN OUT BOAF	PUT				
DESCRIPTION	FUNC	<u>ـ/ـ</u>	COLOR	TERM			
		+		43	OR	DO 40+/#43	DO 40+
	OUT 40	-		44	YEL	DO 40-/#44	DO 40-
		+	OR	45	OR	DO39+/#45	DO 39+
	OUT 39	-	YEL	46	YEL	DO39-/#46	DO 39-
		+	OR	47	OR	DO38+/#47	
	OUT 38	-	YEL	48	YEL	DO38-/#48	DO 38-
		+	OR	49	OR	DO37+/#49	DO 37+
	OUT 37	-	YEL	50	YEL	DO37-/#50	DO 37-
		+	OR	51	OR	DO36+/#51	DO 36+
	OUT 36	-	YEL	52	YEL	DO36-/#52	DO 36-
		+	OR	53	OR	DO35+/#53	DO 35+
	OUT 35	-	YEL	54	YEL	DO35-/#54	DO 35-
	OUT 34	+	OR	55	OR	DO34+/#55	DO 34+
		_	YEL	56	YEL	DO34-/#56	DO 34-
		+	OR	57	OR	DO33+/#57	DO 33+
	OUT 33	_	YEL	58	YEL	DO33-/#58	DO 33-
		+	OR	59	OR	DO32+/#59	DO 32+
	OUT 32	<u> </u>	YEL	60	YEL	DO32-/#60	DO 32-
		+	OR	61	OR	DO31+/#61	
	OUT 31	-	YEL	62	YEL	DO31-/#62	DO 31-
			OR	63	OR	DO30+/#63	DO 30+
	OUT30	+	YEL		YEL	DO30-/#64	∆ DQ 30-
		-	OR	64	OR	DO29+/#65	∆ DO 29+
	OUT 29	+		65			∆ DO 29-
		-	YEL	66	YEL	DO29-/#66	Δ
			v				

SPARE
SPARE

SPARE

		INCEN OUT BOAF	PUT				
DESCRIPTION	FUNC	+/-	COLOR	TERM			
	0	+	OR	67	OR	DO28+/#67	DO 28+
	OUT 28	-	YEL	68	YEL	DO28-/#68	DO 28-
		+	OR	69	OR	DO27+/#69	DO 27+
	OUT 27	-	YEL	70	YEL	DO27-/#70	DO 27-
		+	OR	71	OR	DO26+/#71	DO 26+
	OUT 26	-	YEL	72	YEL	DO26-/#72	DO 26-
		+	OR	73	OR	DO25+/#73	DO 25+
	OUT 25	-	YEL	74	YEL	DO25-/#74	DO 25-
	OUT 24	+	OR	75	OR	DO24+/#75	DO 24+
		-	YEL	76	YEL	DO24-/#76	DO 24-
		+	OR	77	OR	DO23+/#77	DO 23+
	OUT 23	-	YEL	78	YEL	DO23-/#78	DO 23-
		+	OR	79	OR	DO22+/#79	DO 22+
	OUT 22	-	YEL	80	YEL	DO22-/#80	DO 22-
		+	OR	81	OR	DO21+/#81	DO 21+
	OUT21	_	YEL	82	YEL	DO21-/#82	DO 21-
	NC			83			
				84			

								Project Title
								FORT ENERGY C/O TRIDENT
								RC10417
LEGEND WIRE COLOR LEGEN				_				
1. — PANEL WIRING 1. +24VDC: RED 2. — FIELD WIRING 224VDC: YELLOW								4
2 FIELD WIRING 2 -24VDC: YELLOW 3 UNFUSED TERMINAL 3. SWITCHED: ORANG	GF		PANEL SHOP AS BUILT		01.05.2006	LH		Drawing Title
4. Image: A state of the s	JTPUT BLACK		ISSUED FOR CONSTRUCTION		20.03.2006			INCENDIVE OUTPUT BOARD #2 con't
		Soft Rev.		By	Date	Checked	Aprild	
	nev.	Son nev.	Hevision Description	Ву	Dale	Checkeu	Aprva	

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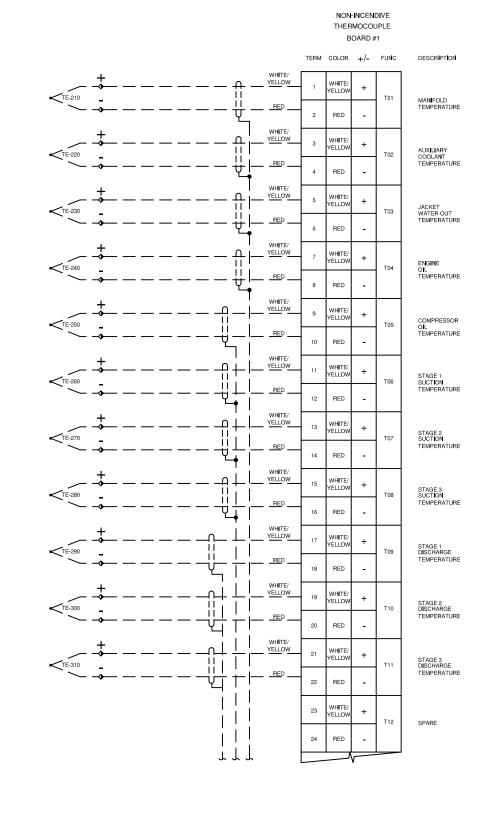
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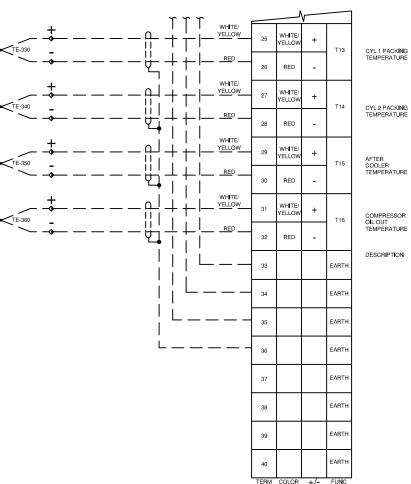
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	SPARE SPARE SPARE SPARE SPARE SPARE	
	OUTPUT BOARD #1	OUTPUT BOARD NODE 4 DIP 1 4 DIP 2 DIP 3 DIP SWITCH SETTINGS DIP SWITCH SETTINGS DIP 1 IS ALWAYS SET TO 0 DIP SWITCH SETTINGS DIP 1 IS ALWAYS SET TO 0 DIP SWITCH SE 2,3 AND 4 SE BOARD ADDRESS
Syntech Drawing Number Customer Drawing Number	6190067B-14 051125	1 of 1 NTS

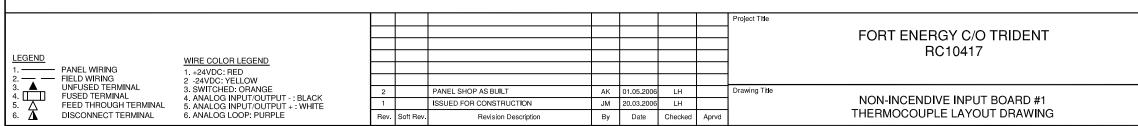






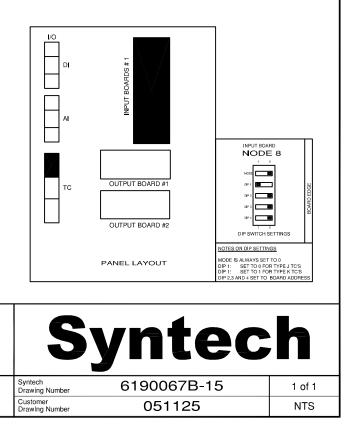


THERMOCOUPLE FIELD WIRING K-TYPE: + = YELLOW - = RED J-TYPE: + = WHITE - = RED

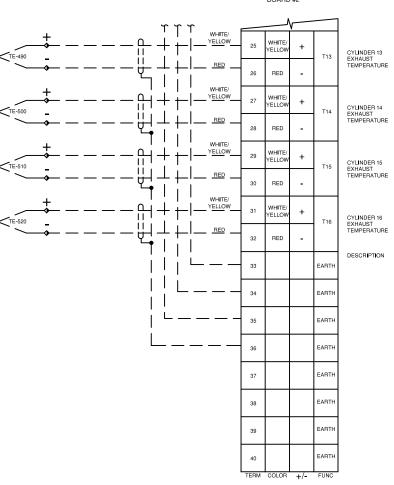


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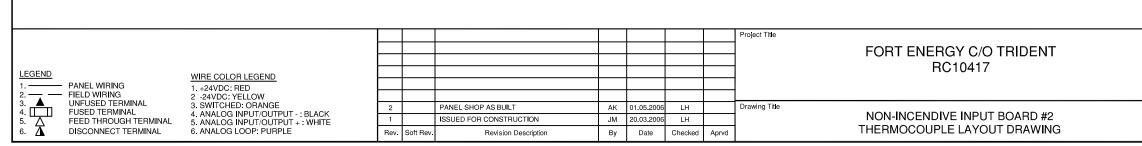
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NON-INCENDIVE THERMOCOUPLE BOARD #2



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



NON-INCENDIVE

THERMOCOUPLE

BOARD #2

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TE-460

TE-470

YELLOW

TERM COLOR +/- FUNC DESCRIPTION

CYLINDER 1 EXHAUST TEMPERATURE

CYLINDER 2 EXHAUST TEMPERATURE

CYLINDER 3 EXHAUST TEMPERATURE

CYLINDER 4 EXHAUST TEMPERATURE

CYLINDER 5 EXHAUST TEMPERATURE

CYLINDER 6 EXHAUST TEMPERATURE

CYLINDER 7 EXHAUST TEMPERATURE

CYLINDER 8 EXHAUST TEMPERATURE

CYLINDER 9 EXHAUST TEMPERATURE

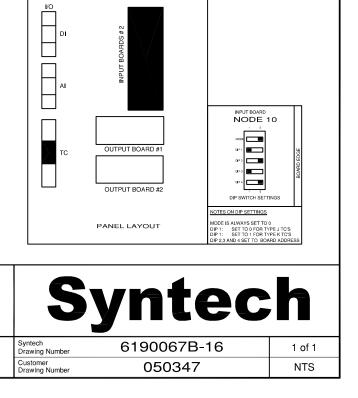
CYLINDER 10 EXHAUST TEMPERATURE

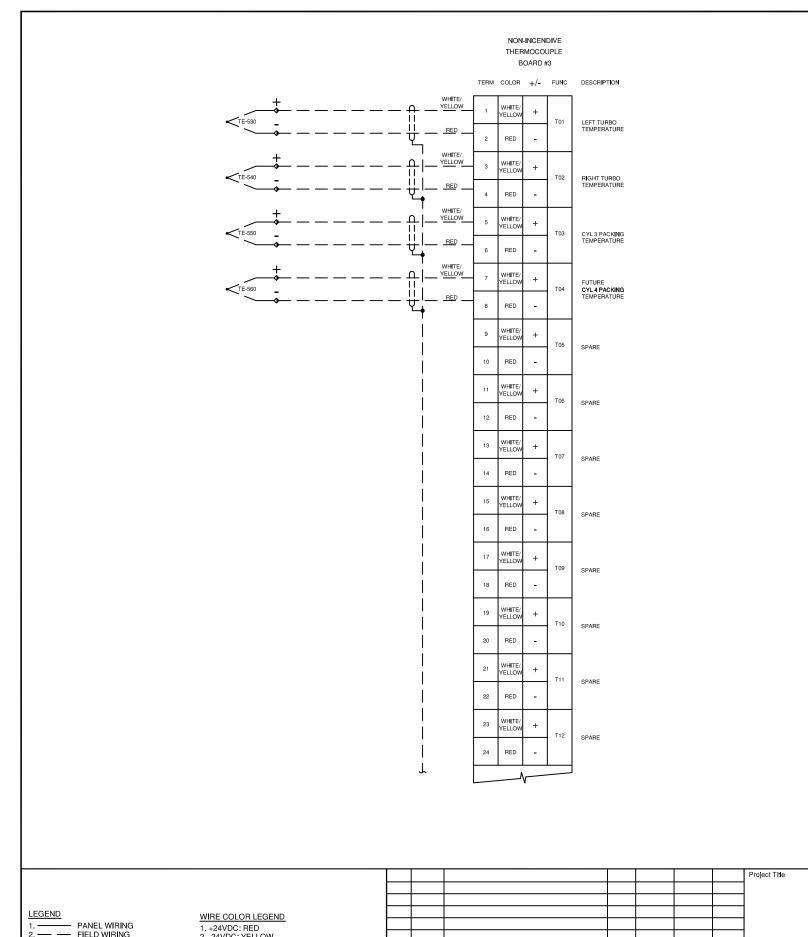
CYLINDER 11 EXHAUST TEMPERATURE

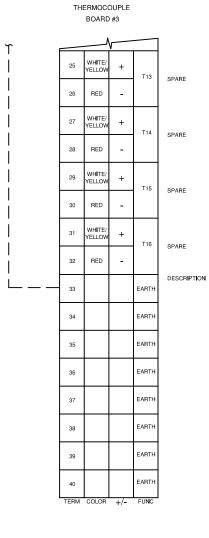
CYLINDER 12 EXHAUST TEMPERATURE

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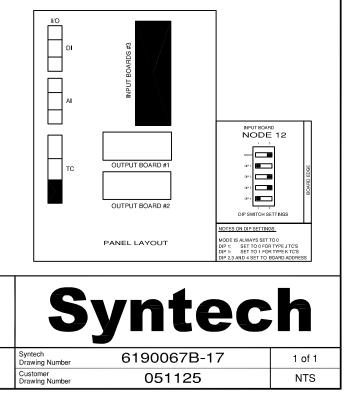
NON-INCENDIVE

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

									Project Title
								FORT ENERGY C/O TRIDENT	
								RC10417	
	WIRE COLOR LEGEND								
L WIRING	1. +24VDC: RED 224VDC: YELLOW								
3. UNFUSED TERMINAL 3. SWITCHED: ORANGE 4. FUSED TERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK 5. FEED THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE 6. DISCONNECT TERMINAL 6. ANALOG LOOP: PURPLE	2		PANEL SHOP AS BUILT	AK	01.05.2006	LH			
	1		ISSUED FOR CONSTRUCTION	JM	20.03.2006	LH		NON-INCENDIVE INPUT BOARD #3	
	Rev.	Soft Rev.	Revision Description	Ву	Date	Checked	Aprvd	THERMOCOUPLE LAYOUT DRAWING	
D	WIRING SED TERMINAL TERMINAL THROUGH TERMINAL	WIRING 2 -24VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TERMINAL 4. ANALOG INPUT/OUTPUT - : BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT + : WHITE	WIRING 1. +24VDC: RED WIRING 224VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TTERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE	WIRING 1. +24VDC: RED WIRING 224VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TTERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE	WIRING 1. +24VDC: RED WIRING 2 -24VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TTERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE	WIRING 1. +24VDC: RED WIRING 2 -24VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE	WIRING 1. +24VDC: RED Image: Construction Image:	WIRING 1. +24VDC: RED WIRING 224VDC: YELLOW SED TERMINAL 3. SWITCHED: ORANGE TERMINAL 4. ANALOG INPUT/OUTPUT -: BLACK THROUGH TERMINAL 5. ANALOG INPUT/OUTPUT +: WHITE 1 ISSUED FOR CONSTRUCTION JM 20.03.2006 LH	WIRE COLOR LEGEND Image: Color Legend

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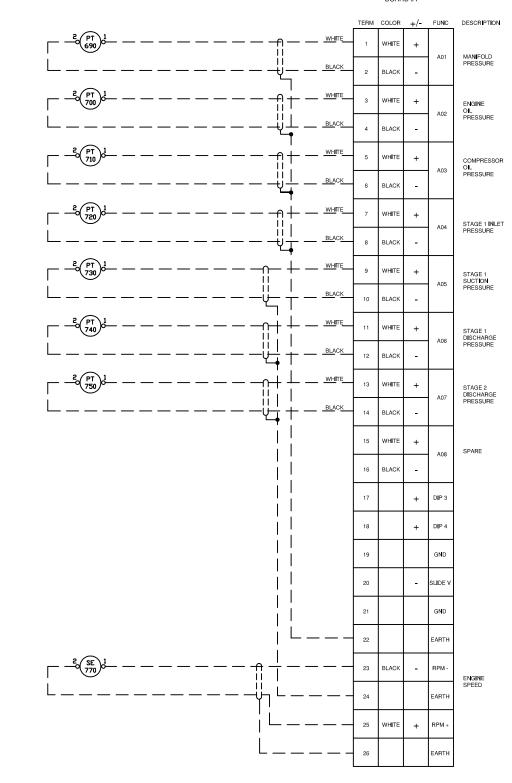
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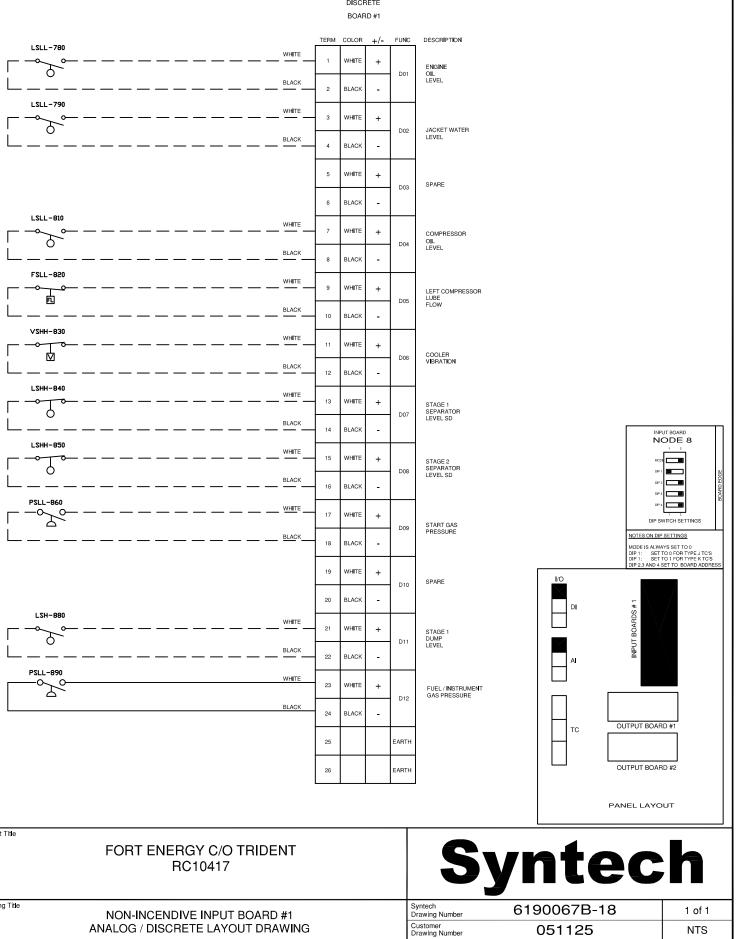




NON-INCENDIVE DISCRETE _

NON-INCENDIVE ANALOG BOARD #1

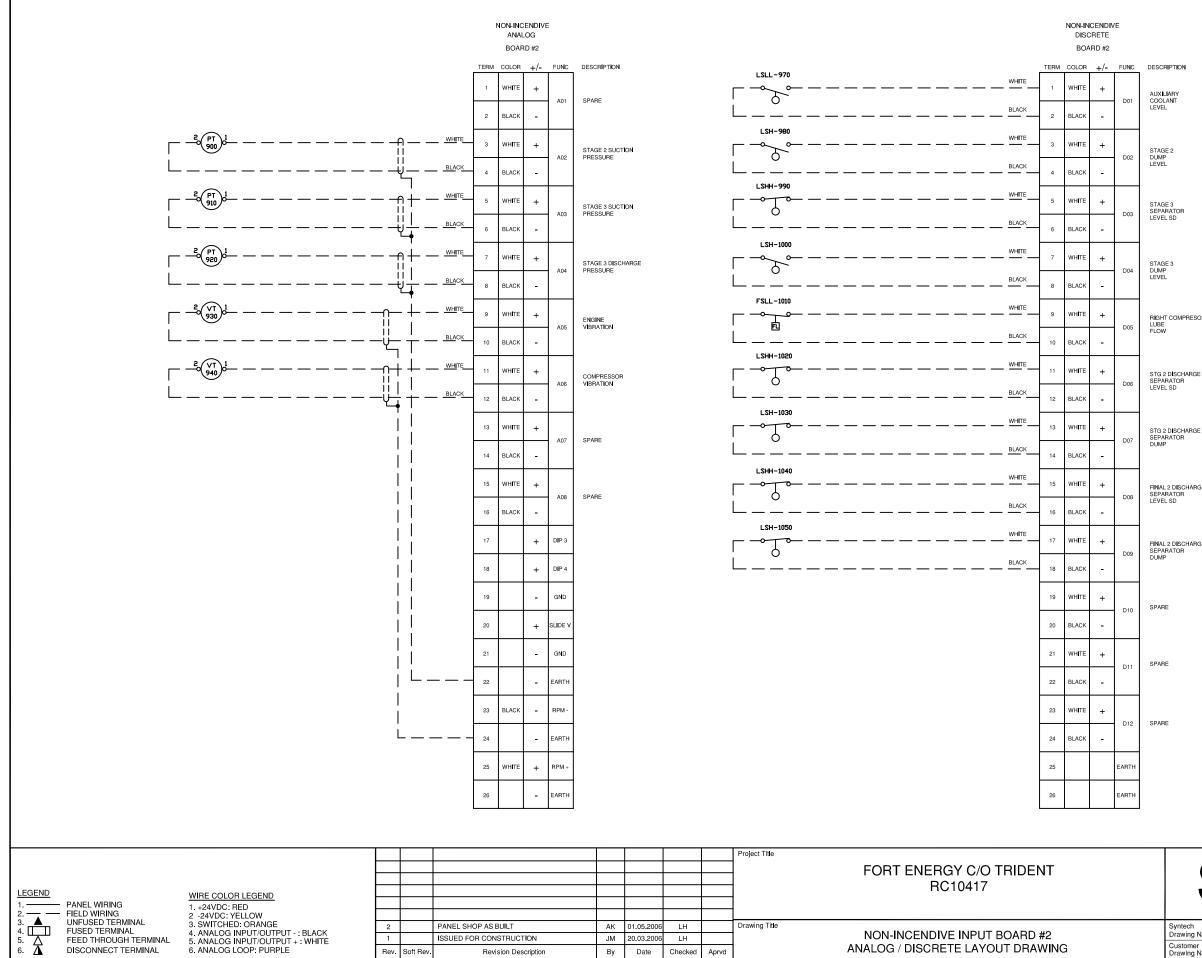




										Project Title
										FORT ENERGY C/O TRIDENT
										RC10417
LEGEND		WIRE COLOR LEGEND								HC10417
1	PANEL WIRING	1. +24VDC: RED								
2.	FIELD WIRING UNFUSED TERMINAL	2 -24VDC: YELLOW								
	FUSED TERMINAL	3. SWITCHED: ORANGE 4. ANALOG INPUT/OUTPUT - : BLACK	2		PANEL SHOP AS BUILT	AK	01.05.2006	LH		Drawing Title
5 5	5 ANALOG INPUT/OUTPUT + WHITE	1		ISSUED FOR CONSTRUCTION	JM	20.03.2006	LH		NON-INCENDIVE INPUT BOARD #1	
6. 🛣	DISCONNECT TERMINAL	6. ANALOG LOOP: PURPLE	Rev.	Soft Rev.	Revision Description	Ву	Date	Checked	Aprvd	ANALOG / DISCRETE LAYOUT DRAWING

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Rev. Soft Rev.

Revision Description

By

Date

Checked

Aprvd

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DISCHARGE RATOR		
.2 DISCHARGE RATOR L SD		
.2 DISCHARGE RATOR	D// NOTES 0N/ MODELES AL DIP 1: S DIP 1: S	P SWITCH SETTINGS DIP SETTINGS WAYS SET TO 0 ET TO 0 FOR TYPE J TC'S ET TO 1 FOR TYPE K TC'S 04 SET TO BOARD ADDRESS
E	NPUT BOARDS # 1	
E		
E		ARD #1
	OUTPUT BO	ARD #2
	PANEL LAY	OUT
Sy	ntec	h
Syntech Drawing Number	6190067B-19	1 of 1
Customer Drawing Number	051125	NTS

RIGHT COMPRESOR LUBE FLOW

٢	JON-INC ANAL BOAF	LOG	E	
TERM	COLOR	+/-	FUNC	DESCRIPTION
1	WHITE	+	A01	SPARE
2	BLACK	-	701	SPARE
3	WHITE	+	A02	SPARE
4	BLACK	-		
5	WHITE	+	A03	SPARE
6	BLACK	-	700	SPARE
7	WHITE	+	A04	SPARE
8	BLACK	-		07706
9	WHITE	+	A05	SPARE
10	BLACK	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SEALE
11	WHITE	+	A06	SPARE
12	BLACK	-		
13	WHITE	+	A07	SPARE
14	BLACK	-	,,	0171116
15	WHITE	+	A08	SPARE
16	BLACK	-	,	
17		+	DIP 3	
18		+	DIP 4	
19		-	GND	
20		+	SL I DE V	
21		-	GND	
22		-	EARTH	
23	BLACK	-	RPM -	
24		-	EARTH	
25	WHITE	+	RPM +	
26		-	EARTH	

Project Title

Drawing Title

AK 01.05.2006

JM 20.03.2006

Date

Ву

LH

LH

Checked

Aprvd

FORT ENERGY C/O TRIDENT RC10417	
NON-INCENDIVE INPUT BOARD #3 ANALOG / DISCRETE LAYOUT DRAWING	

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PANEL SHOP AS BUILT

ISSUED FOR CONSTRUCTION

Revision Description

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

I. ———	PANEL WIRING
2. —	FIELD WIRING
з. 🔺	UNFUSED TERMINAL
4.	FUSED TERMINAL
5. 🔨	FEED THROUGH TERMINAL
6. 🛣	DISCONNECT TERMINAL

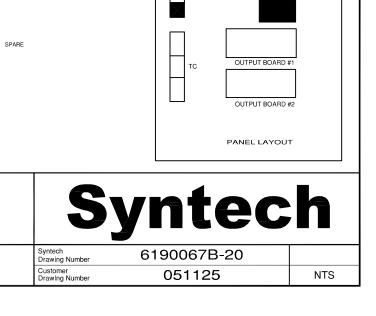
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LEGEND

PANEL WIRING

1. —

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INPUT BOARD

DIP SWITCH SETTINGS

MODE IS ALWAYS SET TO 0 DIP 1: SET TO 0 FOR TYPE J TC'S DIP 1: SET TO 1 FOR TYPE K TC'S DIP 2,3 AND 4 SET TO BOARD ADDRES

NOTES ON DIP SETTINGS

NON-INCENDIVE DISCRETE BOARD #3

D01

D02

D03

D05

D06

D07

D08

D09

D10

D11

D12

EARTH

ARTH

-BLACK

SPARE

WHITE +

BLACK 2

3 WHITE +

4 BLACK -

5 WHITE +

6 BLACK -

7 WHITE + D04

8 BLACK -

9 WHITE +

10

11 WHITE +

12 BLACK _

13

14 BLACK -

15

16

17 WHITE +

18 BLACK -

19 WHITE +

20 BLACK -

21 WHITE +

22 BLACK -

23 WHITE +

24 BLACK -

25

26

WHITE +

WHITE +

BLACK

-