



Fliteway Technologies, Inc.

6100 Industrial Court • P.O. Box 108 • Greendale, WI 53129
(414) 423-5600 • 1-800-236-3580 • FAX (414) 423-9007

Q13144

Coranco Great Plains, Inc.

Ports Petroleum, Greenwood, NE.

2nd Use:

Manske site in Norfolk, NE

- **SVE System rated for 120 SCFM at 80" WC at 1,860 foot elevation.**
Fliteway FV7.582X3-EN808 with the following equipment

- **Rotron EN808BA72MXL Explosion Proof Regenerative Blower** with 7.5 HP
208-230/460 Three Phase Explosion Proof Motor
- **Fliteway "Cyclonic Action" 82 Gallon Vertical** knockout tank, carbon steel with site gauge, 6" cleanout, and bottom drain.
- **4" inlet**, liquid filled vacuum gauge, and sample port.
- 4" Premium 10 micron inline filter between tank and vacuum pump.
- Premium chamber/absorption carbon steel discharge silencer.
- Vacuum relief valve on inlet side of pump, field adjustable
- Belt Guard
- Dilution valve with filter / silencer
- Explosion Proof HHL Switch
- 4" Low Flow Switch

- Explosion Proof Automatic Drain System
 - 1/2 HP Explosion Proof Stainless Steel Centrifugal Pump
 - Two (2) Pump Control Switches
 - Discharge check valve and Two (2) pressure gauges
 - Cartridge Water Filter

- One (1) Tetrasolve 90 Lb Liquid Phase Carbon Vessel
- 4" Inlet Header with ~~Four (4)~~ ^{fourteen (14)} 2" Ports
 - 2" knife valve on each leg
 - sample port on each leg
 - shared magnehelic gauge with valving and tubing connections
 - valving and piping to recirculate blower exhaust to manifold for pressure application to manifold to blow water out of SVE lines (exhaust recirculation)

- **Air Sparging System**
Fliteway Model FS7.5X3-KDT 3.80

H₂K BUSCH 1144 BP 7.5 HP 230/460 3 PHASE TGFC

Fliteway is the Rightway!

- 7.5 HP EXP 208- 230/460 VAC 1750 RPM motor.
- Becker KDT 3.80 Oil-less Rotary Vane
- 10 micron filter stubbed through trailer wall with rain cap
- Mini Magnahelic to monitor differential pressure across filter element
- Discharge Silencer
- Bleed Valve with Filter/Silencer
- **Weighted Pressure relief valve** on discharge side of pump.
- pressure gauges
- All iron pipe and fittings.
- High Discharge Temperature Switch / gauge SGT TO 150°F

- Passive finned heat exchanger (mounted to trailer bottom)

- 2" Steel Discharge Manifold with Eight (8) ½" Ports

- Eight (8) ½" Ball Valves
- Eight (8) Pressure Gauges (Liquid Filled)
- Eight (8) Blue White ½" F45376GHN-8 Flow Meters (1-12 SCFM)

NO LONGER AVAILABLE

MODIFIED TO DWGER UV FLOW METERS AS NOTED

• **NEMA 4 Control Panel (115/230 VAC Three Phase)**

- Separate NEMA 4 Fused Disconnect
- NEMA 4 Box with inner panel
- 3 KVA Power Transformer
- Circuit breakers for branch circuit protection
 - Trailer Heater
 - Trailer Vent Fan
- Starters and overload protection for:
 - 7.5 HP SVE
 - ½ HP Transfer Pump
 - 7.5 HP Air Sparge Motor
- Three (3) HOA switches
 - SVE
 - SVE Transfer Pump
 - Air Sparge
- Two (2) Amp meter
- Two (2) Hour meters
 - SVE
 - Air Sparge
- Program Timer for SVE
- Program Timer for Air Sparge
- Run lights
- Five (5) Alarm Lights
 - SVE HHL
 - SVE Motor Fault
 - SVE Low Flow
 - Air Sparge Motor Fault
 - Air Sparge High Discharge Temperature
- One (1) Intrinsically Safe Pump Controller
- Two (2) Intrinsically Safe Switch Repeater
- **Sensaphone 2000** auto dialer with battery backup

- Surge Protection
- Lightning Protection
- Control Box heater with thermostat

- **Enclosed Trailer:**

Pace American Model CS812TA2 Interior Dimensions: 8' wide by 12'6" Long by 6'5" Tall Dual Axle 7,000 pound GVWR with 4,500 pound payload capacity

- All Wheel Electric Brakes with 12 VDC Breakaway switch
- Independent torsion suspension
- Double Swing Rear Doors with Semi-Style Camlocks
- Clearance Lights
- Double Layer 3/4" Plywood Floor
- 3/8" interior Plywood Walls
- Three (3) Year Trailer Warranty
- Two Floor Vents with removable steel covers
- Front and Rear Stabilizer Jacks
- Spare Tire
- **1" Thermal Insulation inside interior walls**
- **1,800 Watt Explosion Proof Heater and Thermostat**
- **Hazardous Location Vent fan**
- **Gas Tight Light**
- Installation of all Equipment and manifolds per **Class 1 Div 2 Hazardous Location**
- **One (1) Layer of 2" Convuluted Polyester Noise Absorption Foam panels on interior walls and ceiling**
(Reduces exterior sound levels by about 10-12 dba.)

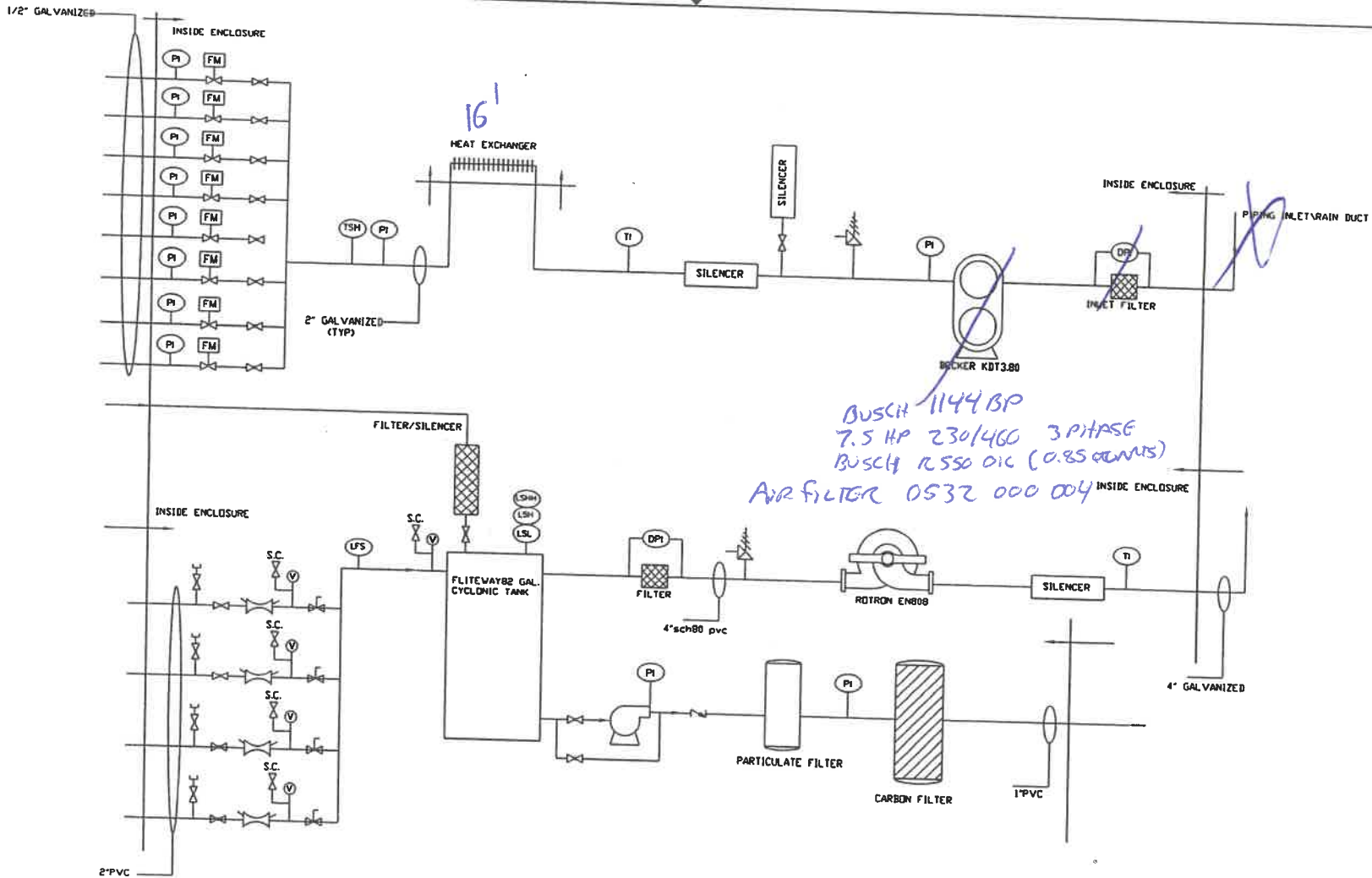
- **Maintenance Items**

- Two Spare Filter Elements for 4" SVE Inlet Filter
- ~~- Two (2) Spare Filter Element for 2" Air Sparge Filter~~
- One (1) Replacement Filter Cartridge for Water Filter
- ~~- One (1) Vane Kit for Becker 3.80~~
- ~~- One (1) Set Carbon Dust Filters for KDT 3.80~~

**1 QUART OF BUSCH R 550 OIL (0.85 QUANTS / 20, COU HRES)*

- SPARGE INLET FILTER 0532.000.004

- **UL Inspection and Classification of Trailer and Systems for Class 1 Div 2, Hazardous Location before Shipment to NE.**

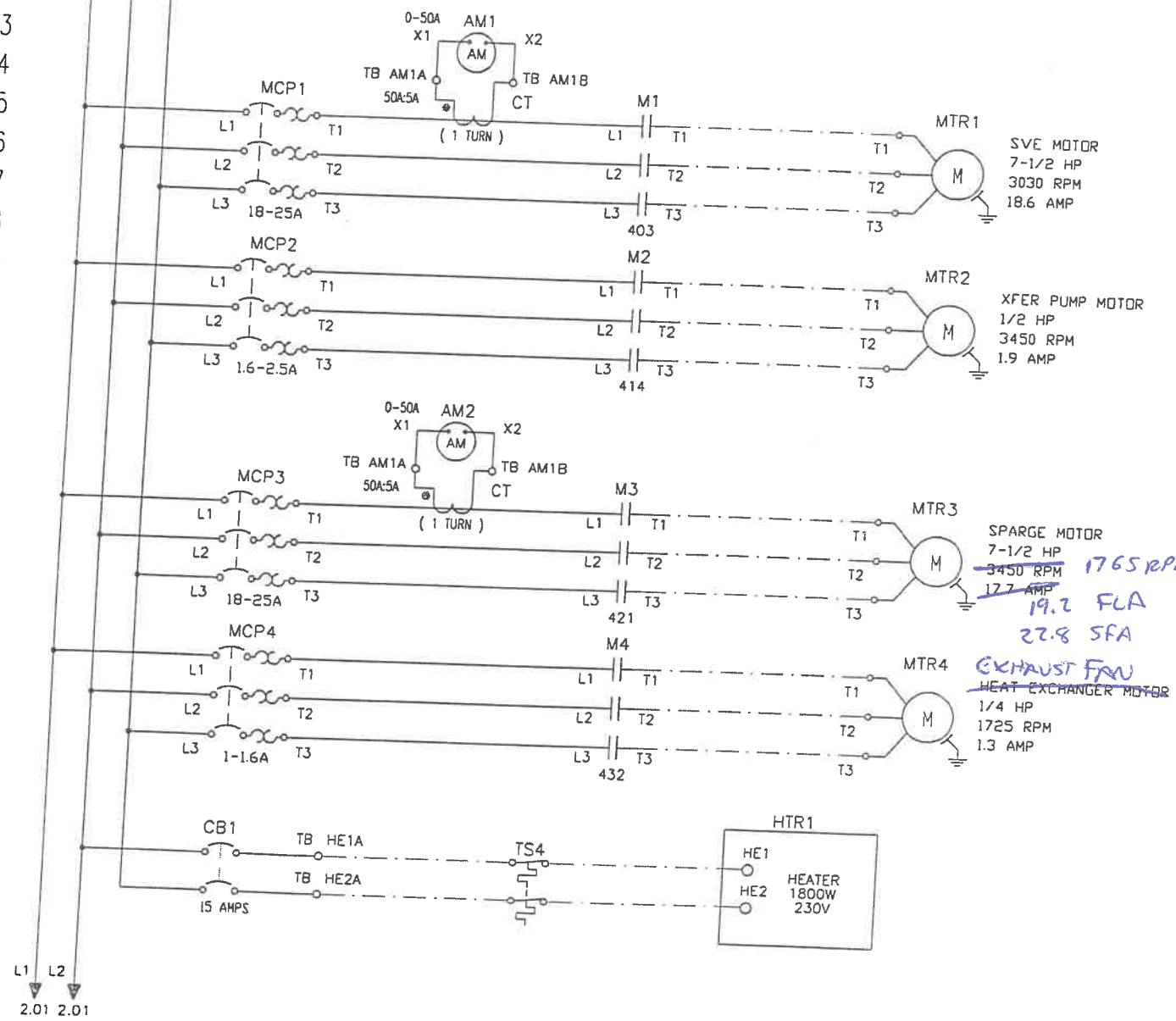
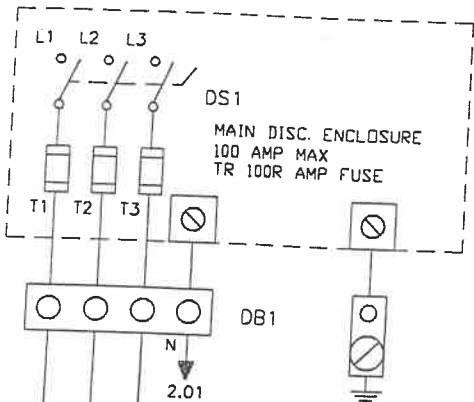


BUSCH 1144 BP
 7.5 HP 230/460 3PHASE
 BUSCH R550 OIL (0.85 QUANTS)
 AIR FILTER 0532 000 004

- DIRECT READ FLOW METER
- GATE VALVE
- BUTTERFLY VALVE
- SAMPLE CONNECTION/PORT
- CHECK VALVE
- BALL VALVE
- AIR INJECTION CONNECTION
- DRYER VFC FLOW METER
- LFS LOW FLOW SWITCH
- PI PRESSURE INDICATOR
- DPI DIFFERENTIAL PRESSURE INDICATOR
- LSHH LEVEL SWITCH HIGH-HIGH LEVEL
- LSH LEVEL SWITCH HIGH LEVEL
- LSL LEVEL SWITCH LOW LEVEL
- TI TEMPERATURE INDICATOR
- PI PRESSURE INDICATOR
- TSH TEMPERATURE SWITCH HIGH
- V VACUUM INDICATOR

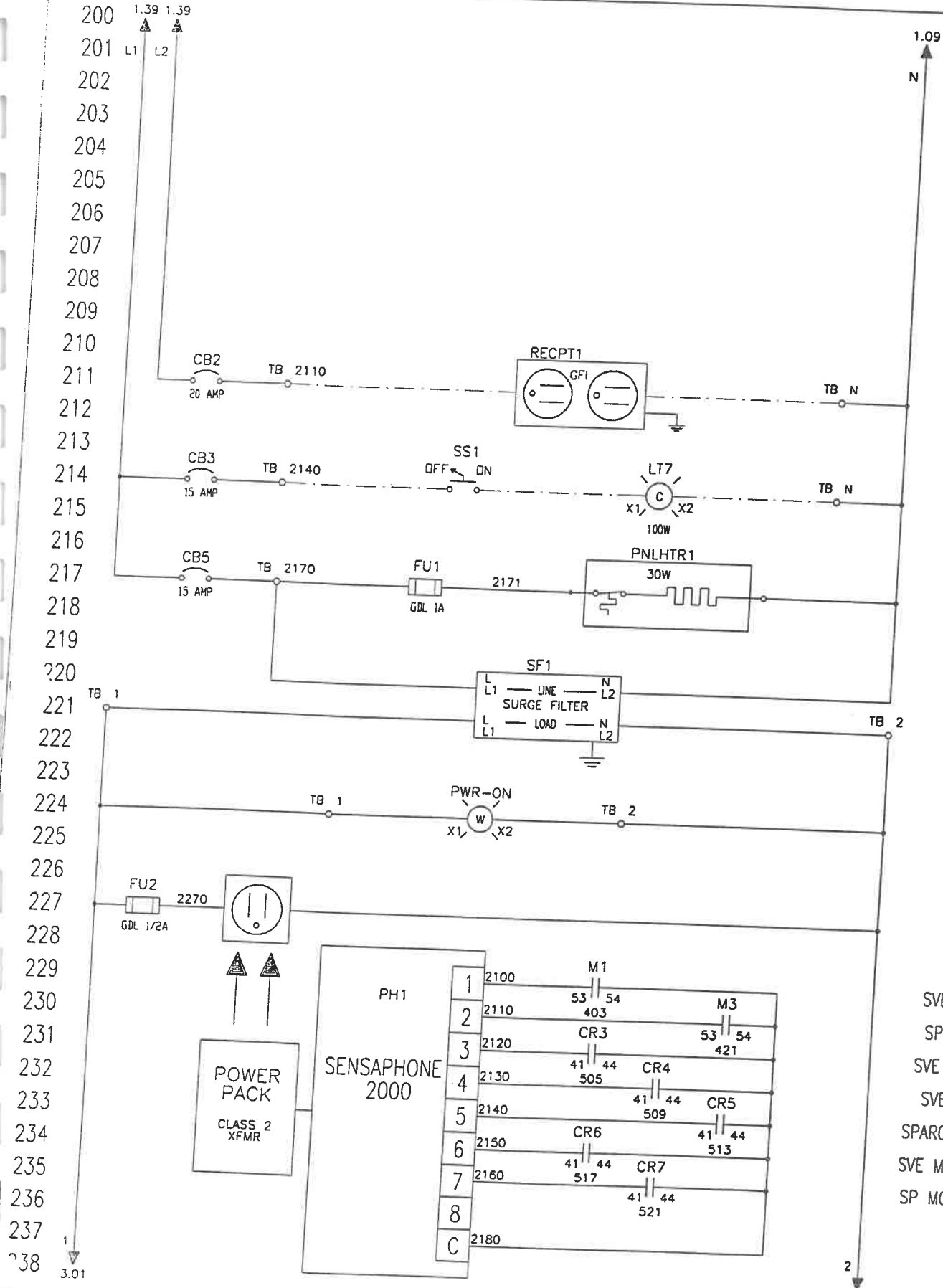
THIS DRAWING IS THE PROPERTY OF Fliteway Technologies, Inc 6100 Industrial Court P.O. Box 108 Greendale, WI 53129 414.423.5600 414.423.9007 <small>AND IS NOT TO BE REPRODUCED WITH OUT WRITTEN PERMISSION</small>		PROCESS AND INSTRUMENTATION DIAGRAM		
		CORANCO GREAT PLAINS, INC. PORTS PETROLEUM, GREENWOOD, NE.		
2-24-06	SIZE	FSCM NO.	DWG NO.	REV
Q13144	SCALE NONE		SHEET 1 OF 1	

230Vac
60Hz
3Phase/4Wire



100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138

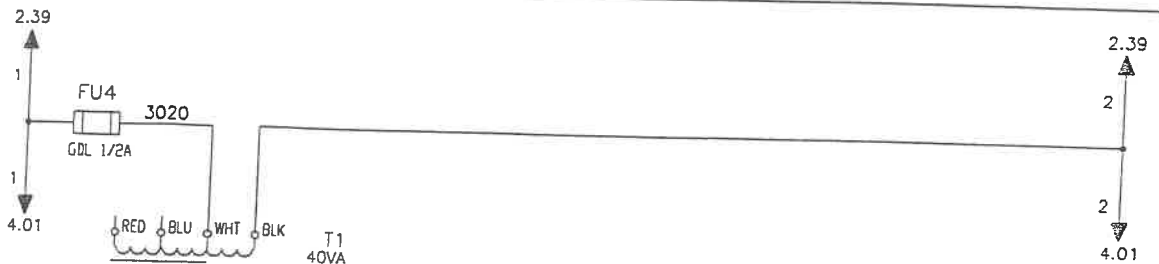
DATE	NAME	PROJECT:	DRAWING-NO.:
02/28/05	FLTWY	Q13144	Q13144
		Coranco Great Plains	JOB-NO.:
			Ports Petroleum
		PAGE DESCRIPTION	PAGE:
			1 OF 5



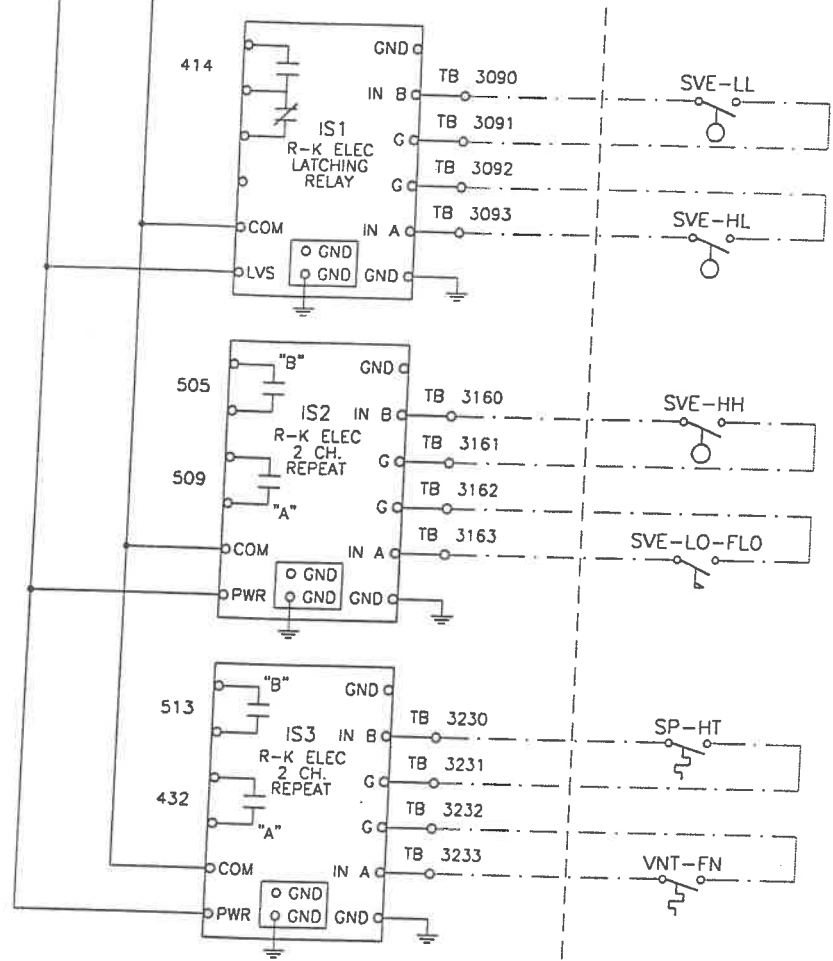
SVE RUNNING
 SP RUNNING
 SVE HI-HI LVL
 SVE LO-FLO
 SPARGE HI-TEMP
 SVE MOTOR TEMP
 SP MOTOR TEMP

DATE	NAME	PROJECT:	DRAWING-NO.:
02/28/05	FLTWY	Q13144	Q13144
CKD BY		Coranco Great Plains	JOB-NO.:
		Ports Petroleum	
		PAGE DESCRIPTION	PAGE:
			2 of 5

300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338



ALL IS WIRING MUST BE AT LEAST 2 INCHES FROM ALL OTHER WIRING

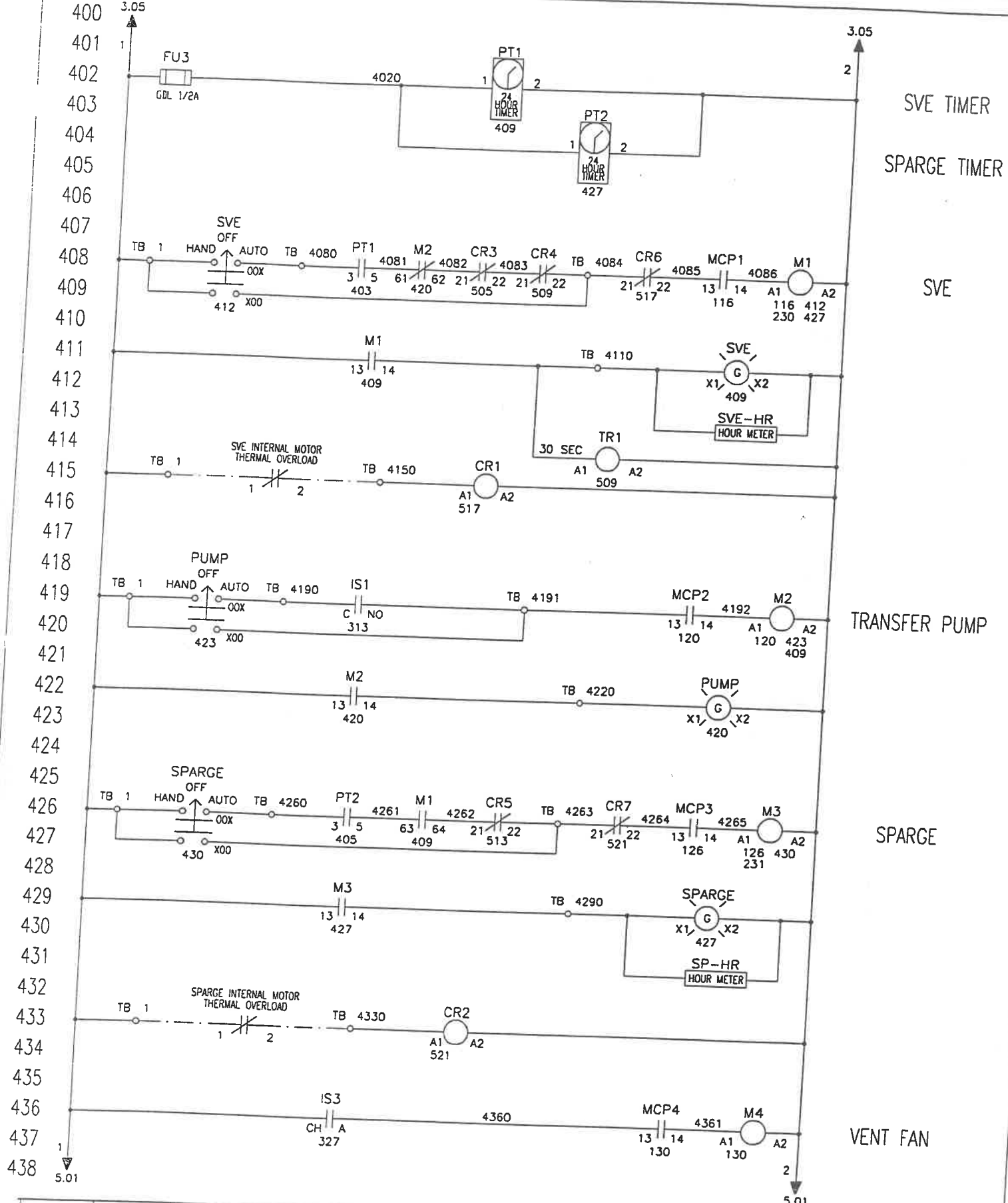


NON-HAZARDOUS AREA HAZARDOUS AREA CLASS 1 GROUPS C & D

FOR CONNECTING ONLY TO PURELY RESISTIVE NON-ENERGY STORING DEVICES

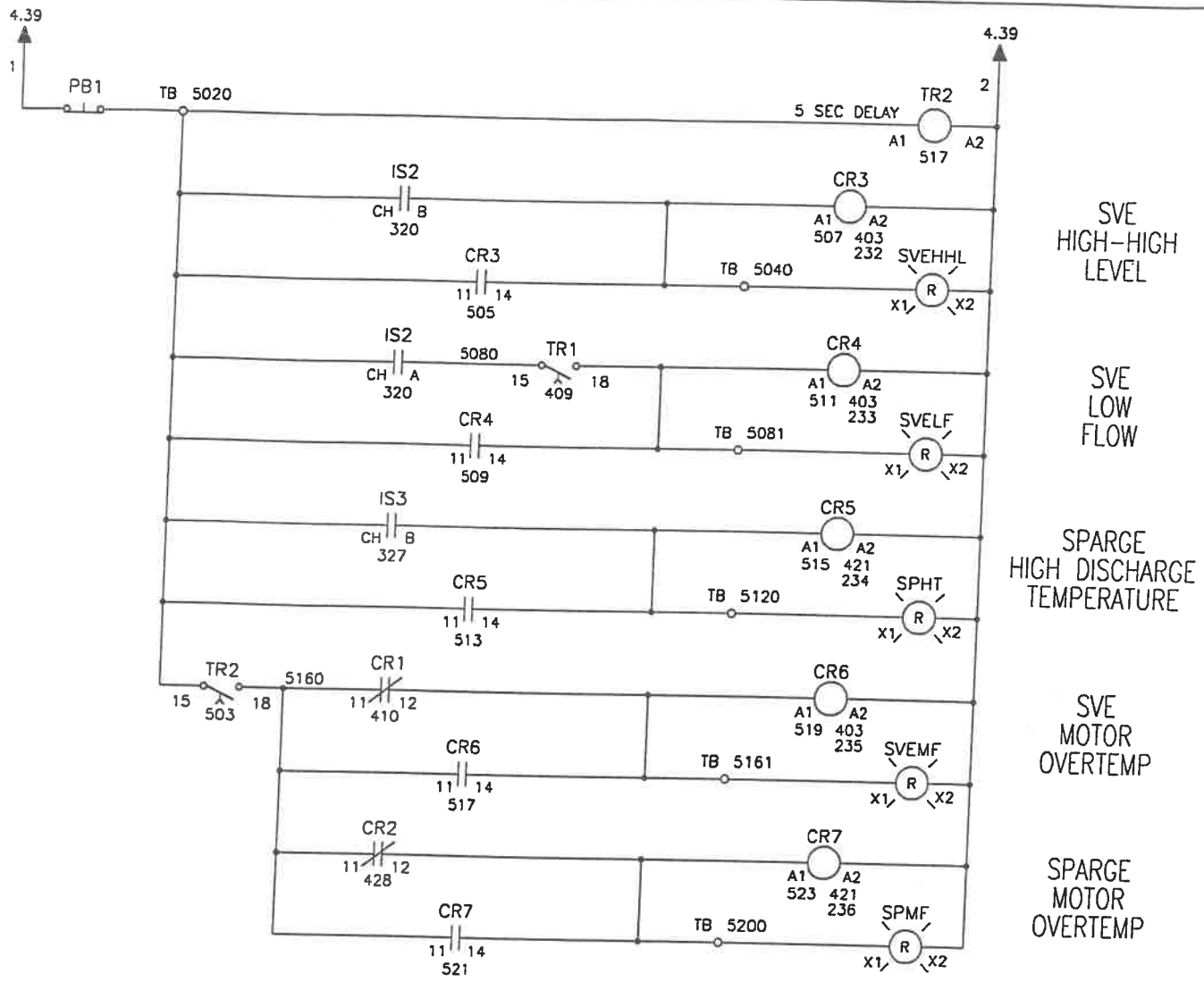
INSTALL IN ACCORDANCE WITH ART. 504 OF THE NATIONAL ELECTRICAL CODE

DATE	NAME	PROJECT:	DRAWING-NO:
02/28/05	FLTWY	Q13144	Q13144
		Coranco Great Plains	JOB-NO:
			Ports Petroleum
RAWN BY		PAGE DESCRIPTION	PAGE:
CKD BY			3 OF 5



DATE	NAME	PROJECT: Q13144 Coranco Great Plains	DRAWING-NO: Q13144
DRAWN BY 02/28/05	FLTWY		
CKD BY		PAGE DESCRIPTION	JOB-NO: Ports Petroleum
			PAGE: 4 OF 5

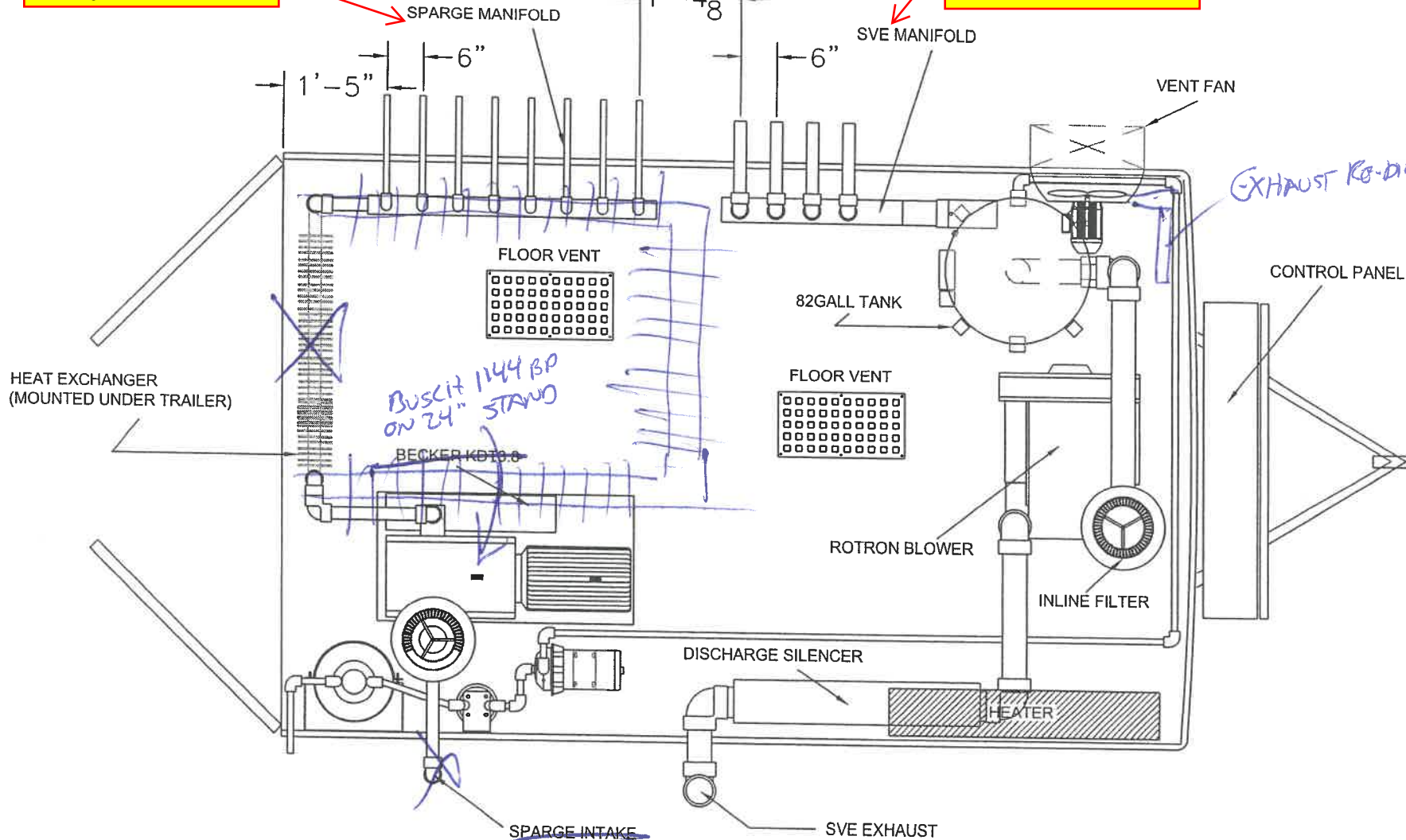
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538



DATE	NAME	PROJECT:	DRAWING-NO.:
02/28/05	FLTWY	Q13144	Q13144
		Coranco Great Plains	JOB-NO.:
			Ports Petroleum
CKD BY		PAGE DESCRIPTION	PAGE:
			5 OF 5

currently 5 functional, could be 8 legs with minor changes

expanded to fourteen 2-inch legs



APPROVED BY _____
DATE _____

THIS DRAWING IS THE PROPERTY OF FLITWAY TECHNOLOGIES INC. AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR DESIGN, MANUFACTURE OR SALE OF APPARATUS WITHOUT THE PERMISSION OF THE COMPANY.
DO NOT SCALE DRAWING

ITEM		QTY	8'X12'6" TRAILER		PART/MAT'L NO.
INITIAL	DATE		FLITWAY TECHNOLOGIES		
DRAWN BY MICHAEL S WALLIN	2-23-05		6100 INDUSTRIAL COURT GREENDALE, VI 53129		
CHECKED			CORANCO GREAT PLAINS, INC		
ENGINEERING			PORTS PETROLEUM, GREENWOOD, NE.		
TECH APPROVED			SCALE	SIZE	REV
ECH NO.			NONE	A	Q13144
SIMILAR TO			WEIGHT	UNIT TYPE	CAD FILE NO.
					SHEET OF