



## BILL OF MATERIALS

ITEM	QTY.	PART	DESCRIPTION	MATERIAL
1	2	STACK BASE	1" Thick Base Plates - 20" Square	SA-36
2	4	BOLTS	1 1/8" by 4" Long (All Thread)	SA-193-B7M
3	8	NUTS	1 1/8" (Hex Head)	SA-194-2HM
4	1	BUTTRESS	8" Std. Pipe (0.322" Wall), 10 FT. 4 1/2" Long	SA-106-B
5	1	LOWER STACK	8" Std. Pipe (0.322" Wall), 27 FT. 3" Long	SA-106-B
6	1	CENTER STACK	8" Std. Pipe (0.322" Wall), 37 FT. 4" Long	SA-106-B
7	1	UPPER STACK	8" Std. Pipe (0.322" Wall), 37 FT. 4" Long	SA-106-B
8	1	INLET FLANGE	8" 150# ANSI RFWN c/w Sch. 40 Bore	SA-105N
9	1	INLET NOZZLE	8" Std. Pipe, (0.322" Wall) - 14.1" Long	SA-106-B
10	1	INLET ELL	8" 45 Degree Sch. 40 LR Weld Ell	SA-234-WPB
11	2	LIFT HOOKS	3/4" Thick Plates (See Drawing for Details)	SA-36
12	9	GUY HOOKS	3/4" Thick Plates (See Drawing for Details)	SA-36
13	4	GUSSETS	1/2" Thick Plate (See Drawing for Details)	SA-36
14	1	TEST PORT	1" 3000# Half Coupling	SA-105N
15	1	FLARE TIP	8" Sch. 10 Pipe - 5 Ft. Long	316 SS
16	1	SHROUD	8" Sch. 10 Pipe - 12" Long	316 SS
17	1	TRACK	1 5/8" UNASTRUT - 115 Ft. Long +/-	GALVANIZED STEEL
18	15	TRACK BRACKETS	1" Sch. 80 Nipples - (Cut Lengths to Suit)	SA-106-B
19	1	WINCH BRACKET	3/8" Thick Plate - 5" x 6"	SA-36
20	1	WINCH	Heavy Duty Type with Stop	MILD STEEL
21	1	PURGE RED.	1/8" Thick Plate - 8.375" I.D.	316 SS
22	6	BREAK FLGS.	8" 150# ANSI RFWN - Sch. 40 Bore	SA-350-LF2
24	1	BOLT SET	to Accomodate Flanges	SA-193-B7M
48	1	NUT SET	to Accomodate Flanges	SA-193-2HM
3		GASKETS	8" 150# ANSI Flexalltic	316 SS

### GUY WIRE HOOK-UP & COMPONENTS

23	9	ANCHOR SHACKLES	to Accomodate a 3/8" Cables	GALVANIZED
24	9	THIMBLES	3/8" Type	GALVANIZED
25	9	FLEMISH ENDS	3/8" Type	GALVANIZED
26	3	WIRE CABLE	3/8" 130 Ft. Long	GALVANIZED
27	3	WIRE CABLE	3/8" 103 Ft. Long (Pre - Tension 1685 Lbs.)	GALVANIZED
28	3	WIRE CABLE	3/8" 83 Ft. Long (Pre - Tension 1125 Lbs)	GALVANIZED
28	9	CABLE CLAMPS	3/8" Clamps	GALVANIZED
29	9	TURNBUCKLES	3/8" Heavy Duty Type	GALVANIZED
30		IGNITION SYSTEM COMPONENTS CONSISTING OF:		
A	1	IGNITOR	1" Sch. 80 Pipe - 8 Ft. Long +/-	316/310 SS
B	1	VENTURI	1/4" NPT for Fuel Air Mixing	CARBON STEEL
C	1	PILOT LINE	CSA 1/4" 350 Psi Dis Hose 120 Ft. Long Approx	NEOPRENE
D	1	ELECT. WIRE	16 - 4 Type SSOW - 120 Ft. Long Approx.	COPPER
E	1	COIL MODULE		
F	1	POWER SUPPLY	12 VDC Solar Panel with Battery Back-Up	
G	1	REGULATOR	1/4" NPT Bellofram, MODEL 962-365-000 NACE Rated	
			0 - 250 Psi In --- 0 - 30 Psi Out	

### DESIGN LOAD CALCULATIONS by CAMPBELL WOODALL & ASSOCIATES, CALGARY, AB

1	DESIGN CODE:	CAN/CSA S16.1 - 94 (SUPPLEMENT TO NBCC 1995)
2	DESIGN LOADS:	
	WIND	= 160 km/h
	Cg	= 1.00
3	BASE REACTIONS:	
	VERTICAL:	24,600#
	HORIZONTAL:	1080#
	MOMENT:	6200 ft.-lb.

### GENERAL NOTES

1	IGNITION SYSTEM: ACL 3000 PI -S RETRACTABLE CONTINUOUS PILOT
	SOLAR POWERED AUTO RELITE, SOLAR PANEL/BATTERY BACK-UP
2	SANDBLAST STACK TO SSPS-SP-6 (COMMERCIAL) THEN PRIME WITH ONE COAT OF INDUSTRIAL PRIMER & TWO COATES OF INDUSTRIAL ENAMEL
3	COLOUR: WARM GREY
4	PURGE REDUCER REQUIREMENT = 50 SCF/H

### REVISION RECORD

SUBMITTED FOR APPROVAL:	02/09/2005
SUBMITTED FOR SECOND APPROVAL:	02/10/2005
SUBMITTED FOR THIRD APPROVAL:	16/10/2005

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### SWATECH INDUSTRIES LTD.

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DEVON CANADA CORPORATION  
8" x 120" GUIDED FLARE STACK  
NORTH COLEMAN - LOC: 02-11-08-04-W4M

DRAWN BY:	DATE:	REV. DATE:	SCALE:	DWG #	SERIAL #
R.J. (BOB) MARTIN	02/09/2005	-	NTS		SWT-0543