

#105836
#105808

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Vernon Mfg. Co. 8375 S. 89 W. Ave. Tulsa, OK 74131
(Name and address of manufacturer)
Manufactured for: Southwest Filter Co. P.O. Box 580608 Tulsa, OK 74158-0608
(Name and address of purchaser)

3. Location of installation: Giant Ind. Grafton, VA
(Name and address)

4. Type: Vert. 072130-7-8 D-10610 1114, 1115 2007
(Holtz. or vert tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
to 2006
(Addenda (Date)) (Code Case Nos) (Special Service per UG-120 (d))

6. Shell: S .375 .125 1'-0" 7'-10.5"
(Matl (Spec. No. Grade)) (Nom. Thk (in.)) (Corr. Allow (in.)) (Diam., I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: S 1 Type 1 Spot 1 2
(Long (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (No. of Courses)

8. Heads: (a) Matl SA-105 (Bld. Flg.) (b) Matl SA-516-70
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side/ Pressure (Convex /Concave)
(a)	Top	150#	.125						19"	Flat
(b)	Btm	.328	.125			2:1				Concave

If removable, bolts used (describe other fastenings) (12) 7/8" x 4 3/4" lg SA-193-B7 Studs w/2 SA-194-2H nuts ea.
(H&T Spec. No., Grade, Size, No.)

9. MAWP 275 150 psi at max temp. 150 °F
(internal) (external)
Min. design metal temp. 0 °F at 275 psi. Hydro. pneu., or comb. test press. 358 psi
(internal) (external)

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl	Nom. Thk	Reinforcement Material	How Attached	Location
In/Out	2	4" 150#	RFWN	SA-105/SA-106-B	.438	Integral	UW-16.1(c)	Shell
Drain	1	1 1/2" 300#	RFLWN	SA-105	.630	Integral	UW-16.1(c)	Btm/Top Hd
Vent/Relief	1	1 1/2" 300#	RFLWN	SA-105	.630	Integral	UW-16.1(c)	Top Bld.
LG	2	2" 300#	RFLWN	SA-105	.660	Integral	UW-16.1(c)	Shell
Steam Out	1	2" 300#	RFLWN	SA-105	.660	Integral	UW-16.1(c)	Shell

11. Supports: Skirt NO Lugs Legs 3 Others Wld Shell/Hd
(Yes or No) (No.) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

Item #10 continued on Attached Supplementary Sheet.

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 20654

expires 11-1-09
Date 7-19-07 Co. Name Vernon MFG. Co. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Vernon MFG. Co. at Tulsa, OK
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OKLAHOMA and employed by SENECA INSURANCE COMPANY OF HOUSTON, TEXAS
have inspected the component described in this Manufacturer's Data Report on 7/20/07, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1, signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel this described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 7/20/07 Signed [Signature] Commissions NB129974 OK 939
(Authorized Inspector) (Nat'l Board (incl endorsements) State, Prov. and No)

Manufactured and certified by <u>VERNON MFG. CO., 8375 S. 89TH W. AVENUE, TULSA, OKLAHOMA 74131-3614</u> (Name and address of Manufacturer)			
Manufactured for <u>SOUTHWEST FILTER, CO., P.O. BOX 580608-0608, TULSA, OK 74158-0608</u> (Name and address of Purchaser)			
Location of Installation <u>Gaint Ind., Grafton,, VA</u> (Name and address)			
Type:	<u>Vertical</u> (Horiz., vert., or sphere)	<u>Filter/Coalescer</u> (Tank separator, heat exch., etc)	<u>072130-7,-8</u> (Mfg's serial No.)
<u>-</u> (CRN)	<u>D-10610</u> (Drawing No.)	<u>1114, 1115</u> (Nat'l. Bd. No.)	<u>2007</u> (Year built)

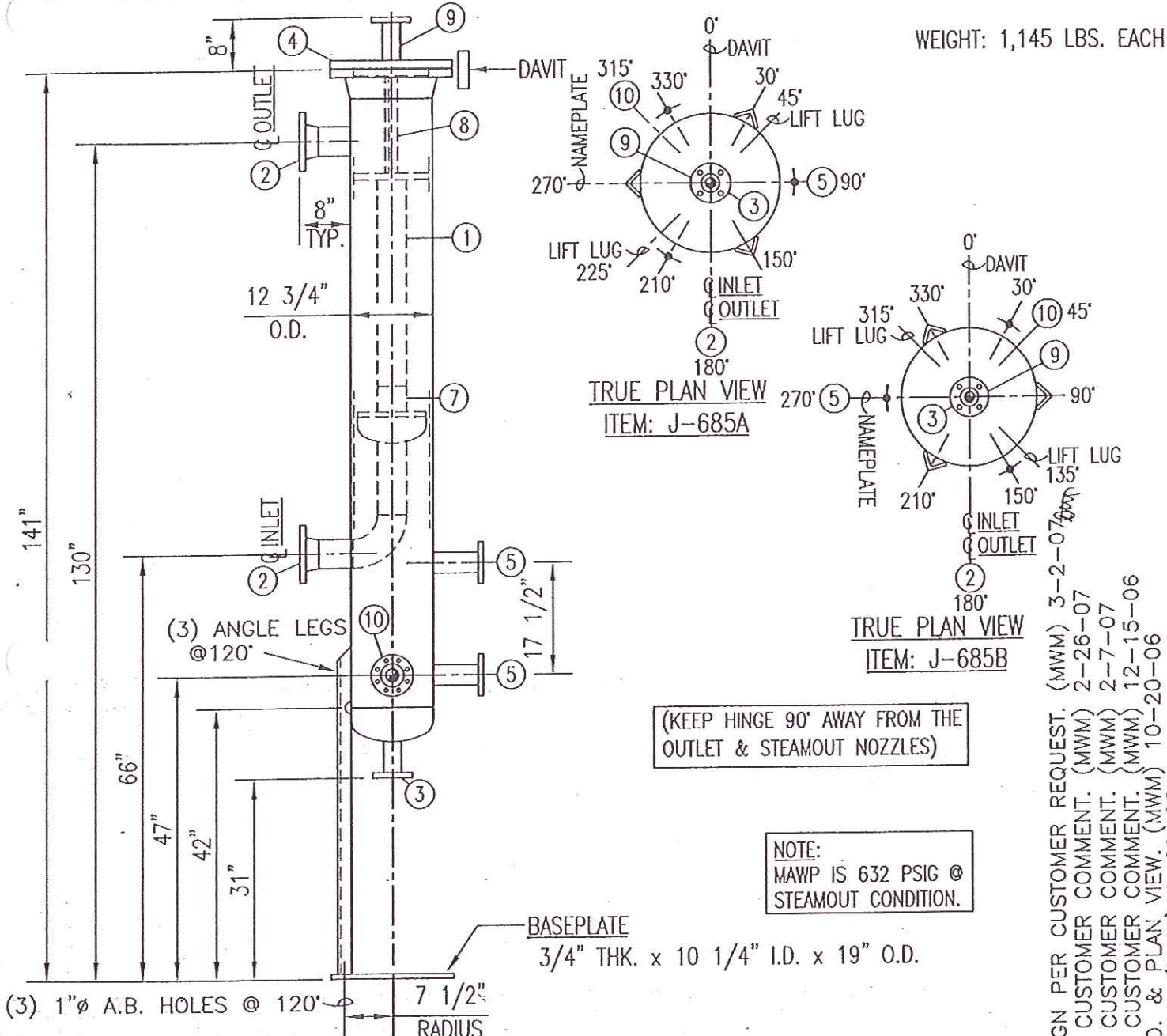
[illegible]

ate 7/19/07 Name VERNON MFG. CO. Signed Vernon E. Bunde
(Manufacturer) (Representative)
tk 7/20/07 Name [Signature] Commission NB129974 OK939
(Authorized Inspector) (Nat'l Board incl. endorsement, state, province and no.)

BILL OF MATERIAL FOR ONE VESSEL				
I T E M	Q T Y.	DESCRIPTION — PART	MATERIAL	HEAT NO.
1	1	HEAD: 12 3/4" OD (.328" MIN) 2:1 ELLIP. W/ 2" S.F.	SA516-70	812V37930
2	1	HEAD: 10 3/4" OD (.328" MIN) 2:1 ELLIP. W/ 2" S.F.	SA516-70	161P37540
3	1	SHELL: 12" SCH STD(.375" WALL) x 55 1/2" LG.	SA106-B	965885
4	1	SHELL: 12" SCH STD(.375" WALL) x 39" LG.	SA106-B	965885
6	1	FLANGE: 12" — 150# RFWN (SCH STD.BORE)	SA105	VLS
7	1	FLANGE: 12" — 150# RF BLIND	SA105	XGS
8	2	FLANGE: 4" — 150# RFWN (SCH 120 BORE)	SA105	226A6
9	3	FLANGE: 2" — 300# RFLWN x 9" LG.	SA105	C739AF/C746AF
10	2	FLANGE: 1 1/2" — 300# RFLWN x 9" LG.	SA105	C739AF
12	2	PIPE: 4" SCH. 120(.438" WALL) x 6" LG.	SA106-B	464399
13	1	PIPE: 4" SCH. XH(.337" WALL) x 12" LG.	SA106-B	82745
14	3	PIPE: 3" SCH. 10(.120" WALL) x 4" LG.	304 S.S.	
15	1	PIPE: 2" SCH. 40(.154" WALL) x 5" LG.	SA106-B	W14268
16	1	PIPE: 1 1/2" SCH. 40(.145" WALL) x 11 1/4" LG.	SA106-B	358665
18	1	ELBOW: 4" — 90° LR (SCH. XH)	SA234-WPB	HK89
20	1	PLATE: 3/4" THK x 10 1/4" ID x 19" OD	SA516-70	W6F807
21	1	PLATE: 3/4" THK x 9 7/8" OD (FILTER PLATE)	SA516-70	W6F807
22	2	PLATE: 3/4" THK x 8" WIDE x 8" LG.	SA516-70	W61749
23	1	PLATE: 3/8" THK x 3" WIDE x 3" LG.	C.S.	813T68280
24	1	PLATE: 3/8" THK x 4" WIDE x 5 7/8" LG.	SA516-70	813T68280
25	1	PLATE: 3/4" THK x 2" O.D. (SHOP TO FIT TO 1 1/2" PIPE)	C.S.	W6F807
26	1	PLATE: 3/4" THK x 2 3/8" O.D. (SHOP TO FIT TO 2" PIPE)	C.S.	W6F806
27	2	PLATE: 3/8" THK x A/R	C.S.	813T68280
28	1	PLATE: 3/8" THK x 3" WIDE x 3 5/16" LG.	SA516-70	813T68280
30	3	ANGLE: 2" x 2" x 1/4" x 49 1/4" LG.(APPROX)(SHOP TO DETER.)	SA36	
31	3	GASKET: 12"-150# RF, 1/8" THK, SPIRAL WOUND w/304SS WINDINGS & NON-ASBESTOS FILLER		
32	12	STUD BOLT: 7/8"ø x 4 3/4" LG.	SA193-B7	
33	24	HEAVY HEX NUTS: 7/8"ø	SA194-2H	
34	2	NAMEPLATES: (1) SWFCO & (1) MANUF. w/ BRACKET	SS/CS	
35	1	GREASE FITTING	S.S.	
37	1	ANGLE: 1 1/2" x 1 1/2" x 1/4" x 15" LG.(APPROX)(SHOP TO DETER.)	SA36	
38	2	GRATING: 3/16" x 1" x 9 1/4" OD	C.S.	
39	A/R	FLAT BAR: 1/8" THK x 1" WIDE x 29" LG	SA36	
40	1	MACHINE BOLT: 3/4"ø x 2" LG.	C.S.	

BILL OF MATERIAL FOR (1) VESSEL.
(2) REQUIRED.

D-COK, P.O. NO.: 56603-P-13-19, ITEM NO.: J-685A/B, FUEL GAS FILTER/COALESCER, (2 UNITS)
ASME DESIGN & STAMP FOR 110 PSIG/FV @ 366°F MDMT 0°F/150°F w/.125" C.A., PWHT - NO, LIFT LUGS - YES,
RADIOGRAPH - RT2, PMI -YES, UT,MT,PT - NO, IMPACTS - NO, INSULATION SUPPORTS - NO, HINGE - YES,
EXTERIOR - SP10, INORGANIC ZINC, 2-3 MILS D.F.T.,
SHFIL - 12" SCH. STD.(.365" WALL) SA106-B, HEAD - .328" MIN. 2:1 ELLIP. SA516-70

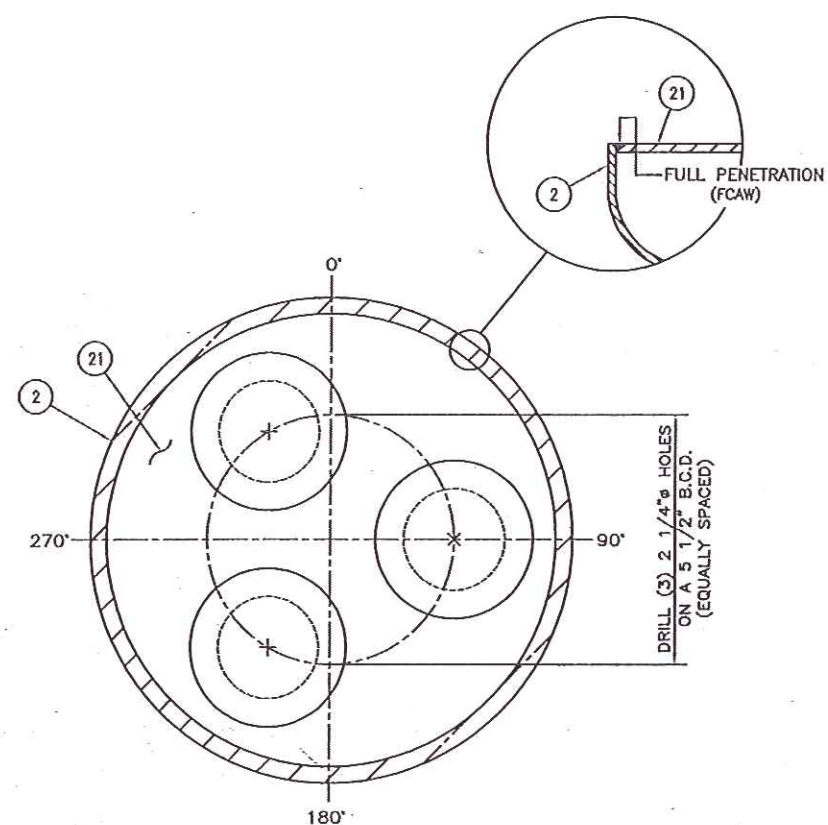


- ELEVATION VIEW**
- 1) (3) CAA-5015 FILTER/COALESCER ELEMENTS (2) 4" - 150# RFLWN IN & OUT NOZZLES
 - 2) 1 1/2" - 300# RFLWN DRAIN NOZZLES
 - 3) 12" - 150# RFLWN w/BLIND, BOLTING & GASKET
 - 4) 2" - 300# RFLWN LEVEL BRIDLE NOZZLES
 - 5) 3" STANDPIPE x 4" LG. (304 S.S.)
 - 6) 1/2" - 300# RFLWN VENT/RELIEF NOZZLE
 - 7) 2" - 300# RFLWN STEAMOUT NOZZLE
 - 8) REMOVABLE ELEMENT HOLD-DOWN SPOOL
- TRUE PLAN VIEW ITEM: J-685A**
- TRUE PLAN VIEW ITEM: J-685B**
- NOTE:**
MAWP IS 632 PSIG @ STEAMOUT CONDITION.
- BASEPLATE**
3/4" THK. x 10 1/4" I.D. x 19" O.D.

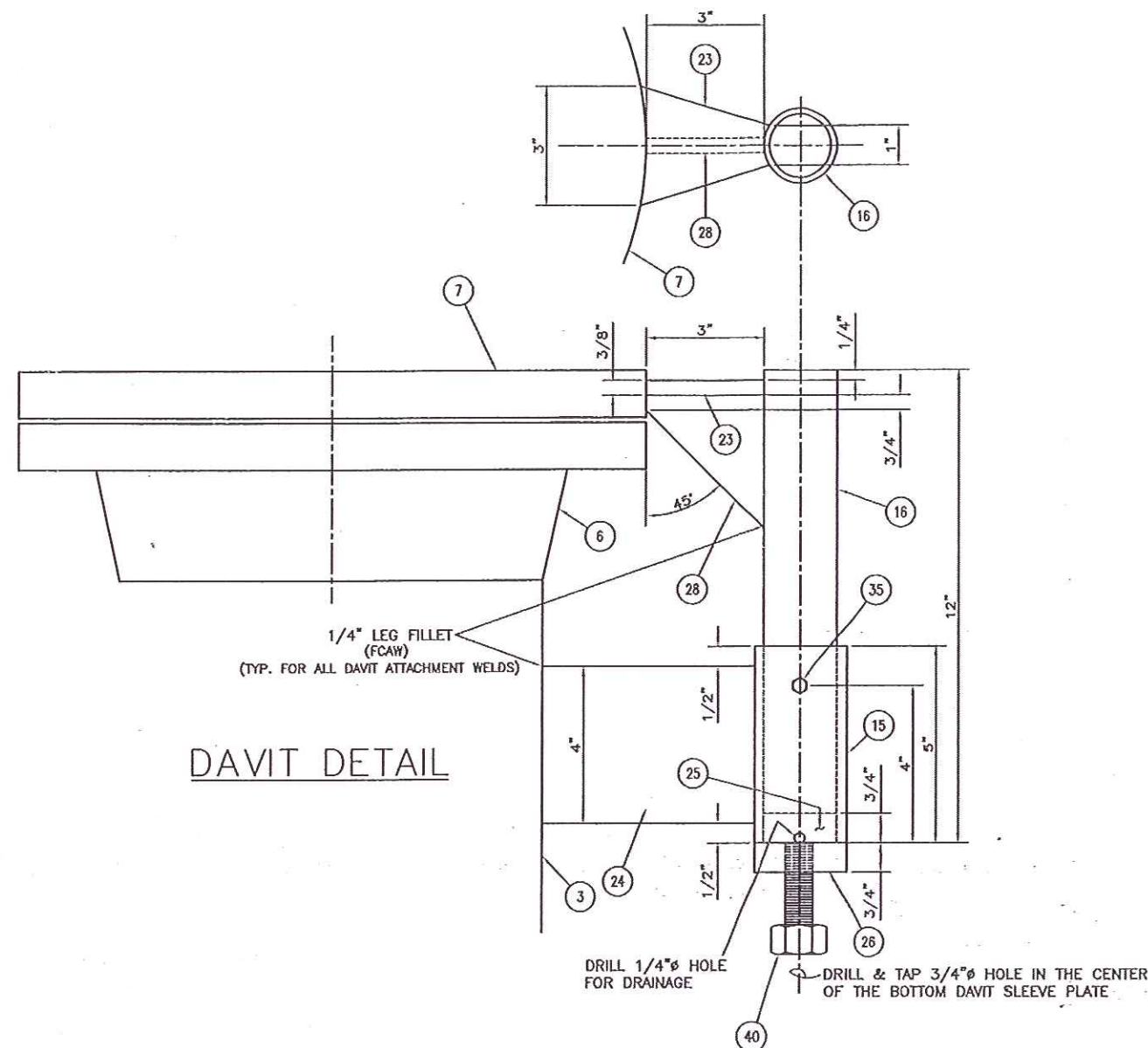
MODEL 121VGC COALESCER		DRAWN: MWM	DATE: 8-1-06
SOUTHWEST FILTER COMPANY, TULSA OKLAHOMA		CHECKED: MWM	DATE: 8/1/06
		DRAWING NO. A-10610	REV. 6
			SHT. 100

REV. 6 CHANGED DESIGN PER CUSTOMER REQUEST. (MWM) 3-2-07
REV. 5 CHANGED PER CUSTOMER COMMENT. (MWM) 2-26-07
REV. 4 CHANGED PER CUSTOMER COMMENT. (MWM) 2-7-07
REV. 3 CHANGED PER CUSTOMER COMMENT. (MWM) 12-15-06
REV. 2 ADDED P.O. NO. & PLAN VIEW. (MWM) 10-20-06
REV. 1 REVISED MATERIAL. (MWM) 9-29-06





FILTER PLATE LAYOUT



DAVIT DETAIL

CERTIFIED
AS BUILT
SOUTHWEST FILTER COMPANY
BY WTO DATE 8/20/07

CUSTOMER: GANT IND. (D-COK)			
ITEM NO.: J-685A/B			
P.O. NO.: 55603-P-13-19			
LOCATION: GRAFTON, VIRGINIA			
DETAILS			
REV.			
REV.			
REV.			
SOUTHWEST FILTER COMPANY TULSA, OKLAHOMA			
SCALE	APPROVED BY	DRAWN BY MWM	
DATE 2-12-07			
JOB NO. J-10607	SERIAL NO. 3255/3256	DWG NO. D-10610	REV. 0