

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS #105838
(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 Gaint Ind. Grafton, VA
(Name and address)

4. Type: Vert. 072130-9,-10 D-10611 1121, 1122 2007
(Horiz. 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 2004
(Addenda (Date)) (Code Case Nos) (Special Service per UG-120 (d))

6. Shell SA-312-304L .375 .0625 11.250" 7'-8.625"
(Mat'l (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) Mat'l SA-182-304L (Bld Flg) (b) Mat'l SA-204-304L
(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	600#	.0625						22"	Flat
(b)	Btm	.328	.0625			2:1				Concave

If removable, bolts used (describe other fastenings) (20) 1 1/4" x 8 3/4" lg SA-193-B7 Studs w/2 SA-194-2H nuts ea.
(Mat'l Spec. No., Grade, Size, No.)

9. MAWP 712 275 °F
(Internal) (external) (Internal) (external)
Min. design metal temp. 0 °F at 712 psi. Hydro. pneu., or comb. test press. 927 psi

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk	Reinforcement Material	How Attached	Location
Inlet/Outlet	2	3" 600#	RFWN	SA-182/SA-312-304L	.300	Integral	UW-16.1(c)	Shell
Drain	1	1 1/2" 600#	RFWN	SA-182/SA-312-304L	.281	Integral	UW-16.1(c)	Btm Hd
Vent/Relief	1	1 1/2" 600#	RFWN	SA-182/SA-312-304L	.281	Integral	UW-16.1(c)	Top Bld.
LG	2	2" 600#	RFWN	SA-182/SA-312-304L	.344	Integral	UW-16.1(c)	Shell
Closure	1	12"	RFWN	SA-182-304L	600#	Integral	UW-16.1(c)	Shell

11. Supports: Skirt NO Lugs NO Legs 3 Other S Wld Shell/Hd
(Yes or 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: Exempt from Impact Testing Per UHA-51 Safety Relief by Others
(Name of part, item number, Mfg's name and identifying stamp)

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

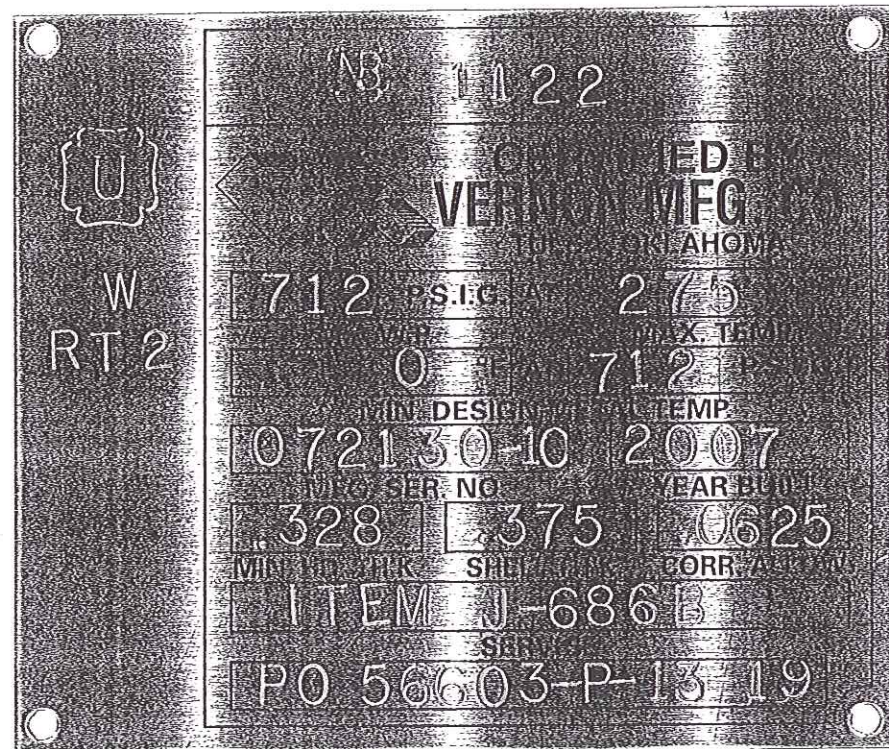
expires 11-1-09
Date 8-3-2007 Co. Name Vernon MFG. Co. Signed Vernon E. Biddle
(Manufacturer) (Representative)

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 8-3-07, 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.

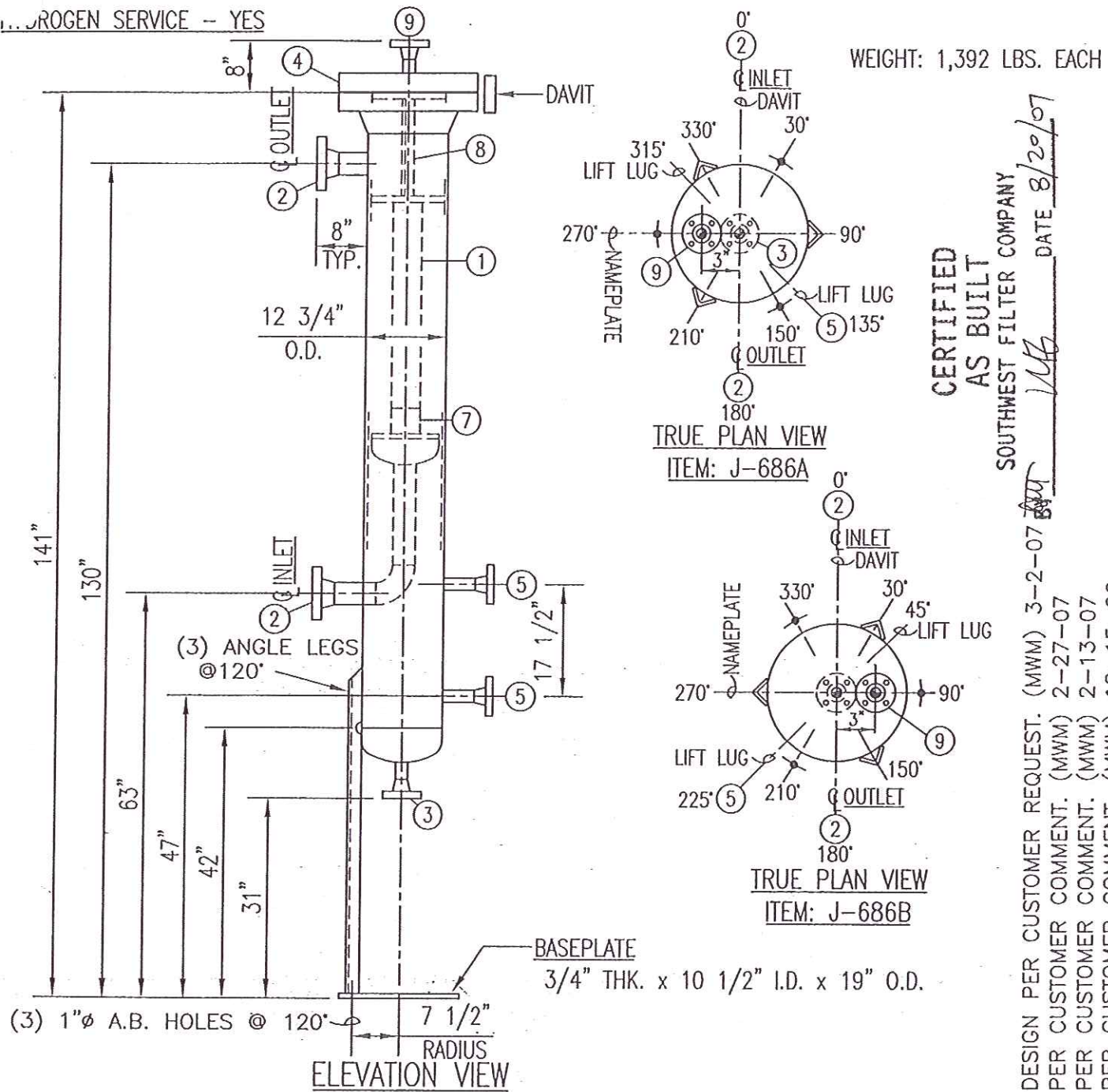
Date 8-3-07 Signed [Signature] Commissions NB12997A OK939
(Authorized Inspector) (Nat'l Board (incl endorsements) State, Prov. and No)





105838

D-COK, P.O. NO.: 56603-P-13-19, ITEM NO.: J-686A/B, REDUCTION GAS FILTER/COALESCER, (2 UNITS)
ASME DESIGN & STAMP FOR 625 PSIG/FV @ 366°F MDMT 0°F/275°F w/o C.A., PWHT - NO, LIFT LUGS - YES,
RADIOGRAPH - RT2, PMI -YES, UT,MT,PT - NO, IMPACTS - NO, INSULATION SUPPORTS - YES, DAVIT - YES,
EXTERIOR - NO SB OR PAINT,
SHELL - 12" SCH. STD. (.365" WALL) SA312-304L, HEAD - .328" MIN. 2:1 ELLIP. SA240-304L
HYDROGEN SERVICE - YES



- 1) (3) CAA-5015 FILTER/COALESCER ELEMENTS (2) 3" - 600# RFWN IN & OUT NOZZLES
- 2) 1 1/2" - 600# RFWN DRAIN NOZZLES
- 3) 12" - 600# RFWN w/BLIND,BOLTING,GASKET & DAVIT
- 4) 2" - 600# RFWN LEVEL BRIDLE NOZZLES (7) 3" STANDPIPE x 4" LG. (304 S.S.)
- 5) REMOVABLE ELEMENT HOLD-DOWN SPOOL (9) 1 1/2" - 600# RFWN VENT/RELIEF NOZZLE (CARBON STEEL EPOXY COATED)

MODEL 121VGC COALESCER

SOUTHWEST FILTER COMPANY, TULSA OKLAHOMA

DRAWN:	DATE:
MWM	8-1-06
CHECKED:	DATE:
[Signature]	8/1/06
DRAWING NO.:	REV. 6
A-10611	SHT. 100

WEIGHT: 1,392 LBS. EACH

CERTIFIED
AS BUILT

SOUTHWEST FILTER COMPANY

DATE 8/20/07

REV. 6

CHANGED DESIGN PER CUSTOMER REQUEST. (MWM) 3-2-07

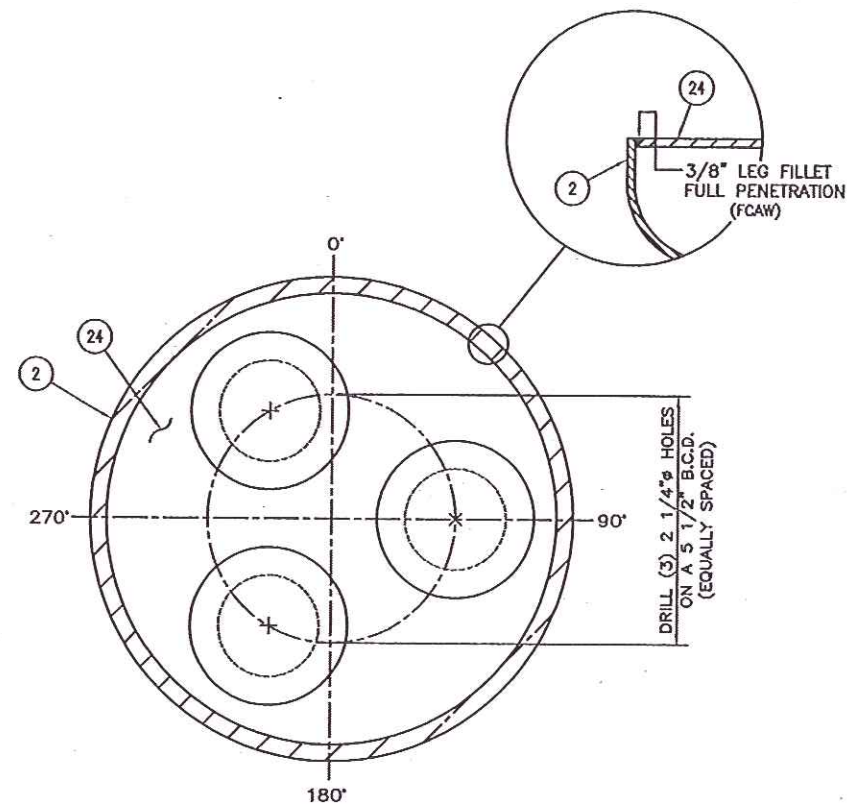
CHANGED PER CUSTOMER COMMENT. (MWM) 2-27-07

CHANGED PER CUSTOMER COMMENT. (MWM) 2-13-07

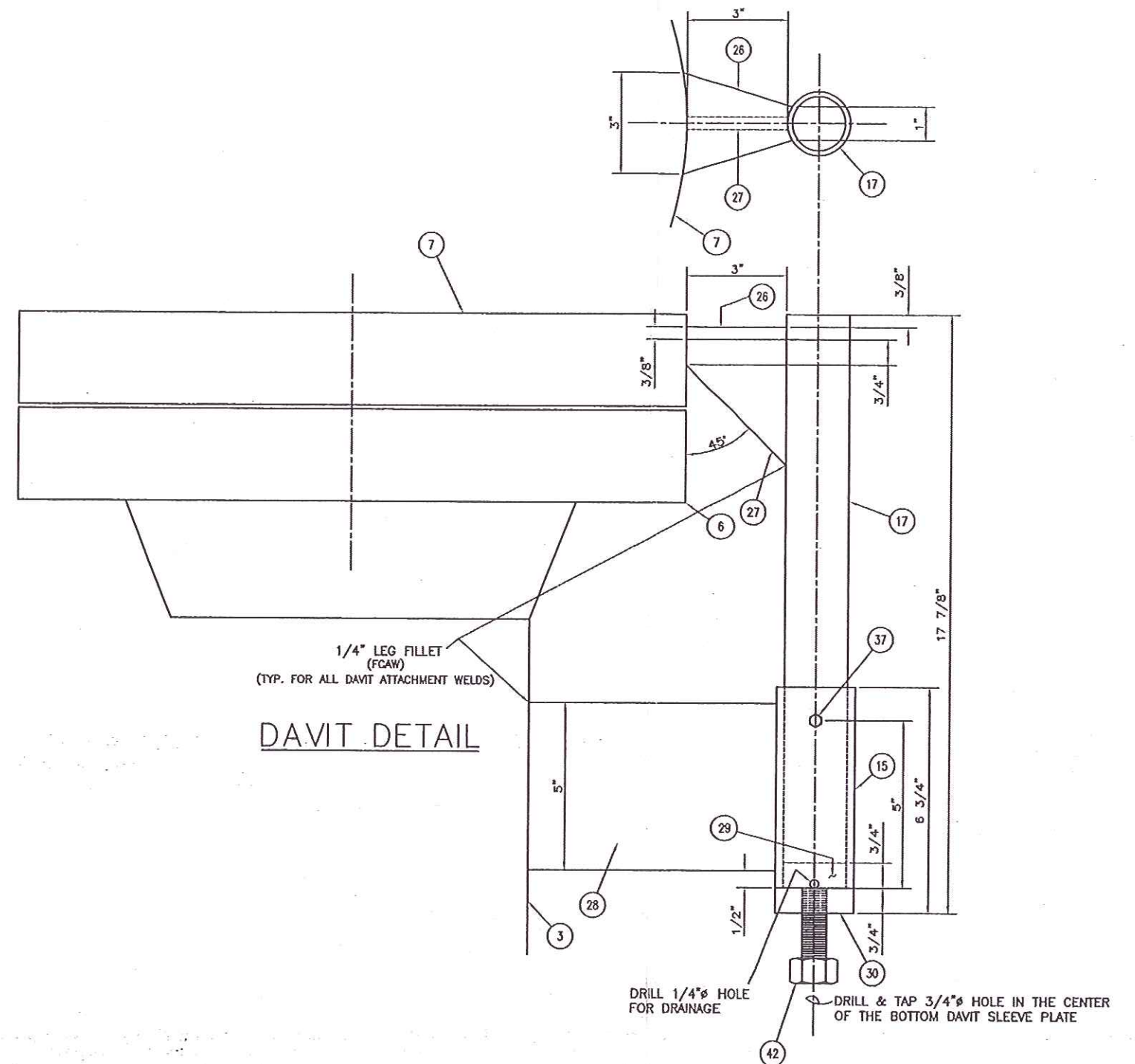
CHANGED PER CUSTOMER COMMENT. (MWM) 12-15-06

ADDED P.O. NO. & PLAN VIEW. (MWM) 10-20-06

REVISED LEVEL BRIDLE NOZZLE SIZE. (MWM) 9-29-06



FILTER PLATE LAYOUT



DAVIT DETAIL

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

CUSTOMER: GAVIT IND. (D-COK)			
ITEM NO.: J-686A/B			
P.O. NO.: 56603-P-13-19			
LOCATION: GRAFTON, VIRGINIA			
DETAILS			
REV.			
REV.			
REV.			
SOUTHWEST FILTER COMPANY TULSA, OKLAHOMA			
DATE	APPROVED BY	DRAWN BY	REVISION
2-14-07		MWM	
APP. NO.1	SEAL NO.1	APP. NO.2	REV. 0
J-10607	3257/3258	D-10611	