

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

98880

1. Manufactured and certified by OHMSTEDE, INC., ST. GABRIEL PLANT, 4250 HIGHWAY 30, ST. GABRIEL, LOUISIANA 70776
(Name and address of manufacturer)
2. Manufactured for KOCH NITROGEN, STERLINGTON, LA
(Name and address of purchaser)
3. Location of installation KOCH NITROGEN, STERLINGTON, LA
(Name and address)
4. Type HEAD 933131 - 933131 1418 1999
(Horn or vent 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 1998
Year
- to 1999 - NONE
Addenda (Date) Code Case Nos. Special Service per UG 120(d)
6. Shell: .875 .0625 3'-0" 2' 5/16"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: 1 Spot .85 .85 - 1 Spot 1
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr) Girth (welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses
8. Heads: (a) Mat'l. SA-240 Ty 304 (b) Mat'l. -
(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 to Pressure (Convex or Concave)
(a)	End	13/16	.0625	-	-	2:1	-	-	-	CONCAVE
(b)										

If removable, bolts used (describe other fastenings) -

(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 822 psi at max. temp. 260 ° F
Min. design metal temp. -20 ° F at 822 psi. Hydro., ~~XXXX~~, or ~~XXXX~~ test pressure NONE psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
Misc.	1	16" 300#	RFWN	SA-182 Ty F304	.500	SA-240 Ty 304	FPW	180 DEG CL
Misc.	2	3/4" 6M	CPLG	SA-182 Ty F304	6000#	SA-182 Ty F304	FPW	BOT NOZZ
Misc.	1	3/4" 6M	CPLG	SA-182 Ty F304	6000#	SA-182 Ty F304	FPW	0 DEG CL

11. Supports: Skirt NO Lugs - Legs - Other - Attached -
(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 this report:

(Name of part, item number, Mfg's name and identifying stamp)

NOZZLES CONT: SPOT RADIOGRAPHY, EFF. = .85.

ITEM# A-106-C P.O.# 9900889

CERTIFICATE OF SHOP 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. 10562 expires 7/14, 2000.

Date 9-22-99 Co. Name OHMSTEDE, INC., ST. GABRIEL PLANT Signed ANTHONY BABIN
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by OHMSTEDE, INC., ST. GABRIEL PLANT at ST. GABRIEL, LOUISIANA 70776
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of LA and employed by H.S.B.I.&I., CO. HARTFORD, CT. have inspected the component described in this Manufacturer's Data Report on 9/23, 99, 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. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel 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.

9/23/99 Signed [Signature] Commissions NB7114A LA 678
(Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)

98880

933131

Koch Nitrogen

9-1-99

		Ohmstede Inc.	
NATL. BD. NO. 1418			
CERTIFIED BY			
OHMSTEDE INC.			
ST. GABRIEL PLANT			
S.N. 933131			
PART	DATE	1999	
ITEM NO.	A-106-C	SIZE	37 X 28 TYPE B - -
P.O. NO.	01151171-C		
REPLACEMENT CHANNEL ONLY.			

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

S-5260-D

98880

1. Manufactured by Industrial Fabricating Co. 10055 E. 58th St. No. Tulsa, Okla.
Subsidiary of Word Ind. (Name and address of manufacturer)
2. Manufactured for M. W. Kellogg Company Houston, Texas
(Name and address of purchaser)
3. Location of Installation Sterlington, La. (Name and address)
4. Type Horiz Vessel No. 5260-4 (Name of vessel)
(Spec. No. Grade) (Mfg's Serial No) (CRN) S-5260-D
2238 Year Built 1976 (Nat'l Bld No)

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

1974 and Addenda to June 30 and Code Case no. None
(Year) (Date)
special service per UG-120(d) None

Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: None

(Name of part, item number, mfg's name and identifying stamp)
Items 6-11 incl. to be complete for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

8. Shell: Material SA-240 304SS Nominal Thickness 3/8 in. Corrosion Allowance 0 in.
(Spec. No. Grade)
Diam. 3 ft 1-3/4 in. Length 23 ft 11-3/4 in.

CERTIFICATE OF 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.

Date 7-1-76 Signed Industrial Fabricating Co. by M. J. Plunk
Subsidiary of Word Ind. (Representative)
"U" Certificate of Authorization No. 10891 expires Dec. 18, 1978

CERTIFICATE OF SHOP INSPECTION

Vessel made by Industrial Fabricating Co. at Tulsa, Oklahoma
Subsidiary of Word Ind.
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 Ark. and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pressure vessel described in this Manufacturers' Data Report on 7-1, 1976 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.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' 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 7-1-76
Signed R. E. Gibson Commissions N.B.# 8055
(Inspector) (Nat'l Board, State, Province and No)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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.

Date Signed by
(Manufacturer) (Representative)
"U" Certificate of Authorization No. expires, 19

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 and employed by of have compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure in accordance with ASME Code, Section VIII, Division 1.

The described vessel was inspected and subjected to a hydrostatic test of psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturers' 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
Signed Commissions
(Authorized Inspector) (Nat'l Board, State, Province and No)

7. Seams: Long Dbt. Butt R-T: Spot Efficiency 85 %
(Welded, Dbt. Singl. Lap, Butd)
H.T. Temp 1125°F F Time 1 HR. Girth Dbt. Butt
(Welded, Dbt. Singl. Lap, Butd)
R.T. Spot No. of Courses 3
(Spot, Partial, or Full)

8. Heads: (a) Material SA-516-70 (b) Material SA-516-70
(Spec. No., Grade)
Location Minimum Thickness Corrosion Allowance Crown Radius Knuckle Radius Elliptical Ratio
(Top, Bottom, Ends) Thickness Allowance Radius Radius Ratio

(a) Back Chan 7/8 (NOM) 1/4" 2:1
Conical Hemispherical Flat Side to Pressure
Apex Angle Radius Diameter (Convex or Concave)

(a) Concave
(b) Concave

If removable, bolts used (describe other fastenings) Stl; SA-193-B7; 125,000; 1"; 56
(Material, Spec. No., Gr., Size, Qty)

9. Type of Jacket Proof Test

10. Jacket Closure If bolted, describe or sketch. If bar, give dimensions

11. Constructed for max. allowable working pressure 130 psi at max temp. 260 F. Min. temp. (when less than -20 F) 210 psi.
F. Hydrostatic, pneumatic, or combination test pressure

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary Material SA-240 430 SS Diam. 38 1/4 in.
(Spec. No., Gr.)
Nominal Thickness 4-1/8 in. Corrosion Allowance S.S. 0" T.S. 1/4 in. Attachment Welded
(Welded, Bolted)
Floating—Material SA-240 430 SS Diam. 38 1/4 in.
Nominal Thickness 4-1/8 in. Corrosion Allowance S.S. 0"

Attachment Dual Tested (SA-450)

13. Tube Material SA-268 O.D. 3/4 in. Nominal Thickness 16 AVG. in. gauge
(Spec. No., Gr.)
Number 1245 Type Straight
(Straight or "U")

Items 14-17 incl to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: Material SA-516-70 Nominal Thickness 7/8 in. Corrosion Allowance 1/4" in.
(Spec. No., Gr.)
Diam. 3 ft. 2-3/4 in. Length 3 ft. 6-15/16 in.

15. Seams: Longitudinal Dbt. Butt R-T: Spot Efficiency 85 %
H.T. Temp 1125°F ± 25°F F Time 1 HR. Girth Dbt. Butt
(Welded, Dbt. Singl. Lap, Butd)
R.T. Spot No. of courses 1
(Spot, Partial, or Full)

16. Heads: (a) Material SA-516-70 (b) Material SA-516-70
(Spec. No., Grade)
Location Minimum Thickness Corrosion Allowance Crown Radius Knuckle Radius Elliptical Ratio
(Top, Bottom, Ends) Thickness Allowance Radius Radius Ratio

(a) Front Chan 7/8 (NOM) 1/4" 2:1
Conical Hemispherical Flat Side to Pressure
Apex Angle Radius Diameter (Convex or Concave)

(a) Concave
(b) Concave

If removable, bolts used (describe other fastenings) Stl; SA-193-B7; 125,000; 1"; 56
(Material, Spec. No., Gr., Size, Qty)

17. Constructed for max. allowable working pressure 440 psi at max temp. 300 F. Min. temp. (when less than -20 F) 660 psi.
F. Hydrostatic, pneumatic, or combination test pressure

Items below to be completed for all vessels where applicable

18. Safety Valve Outlet: Number 1 Size 1/2 Location Top

19. Nozzels:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Chan In	1	16"	Pipe	Smls SA-106-B Sch. 80	SA-516-70	Welded	
Chan Out	1	16" 90° Ell	SA-234-WPB Sch. 80	SA-516-70	Welded		
Shell In & Out	2	8"	R&W CYL.	SA-240 304SS	1/4"	Weld	Welded
Aux Noz	1	2"	Pipe	Smls SA-312 304SS Std. Wt.	Weld	Welded	

20. Inspection Openings:

Manholes No. 1 Size 18" Location Top

Handholes No. 1 Size 12" Location Top

Threaded No. 1 Size 1/2" Location Top

21. Supports: Skirt Welded Lugs 1 Legs 1 Other Saddles
Attached Welded (Where and how)

22. Remarks: Item: 106-C Service- Shift Effluent BFW Heater
M. W. Kellogg Co. (International Mineral & Chemical Co.)
M.W. Kellogg P. O. 5103-P-C21-103(A) REQ'N# 5103-P-C21-103(A)
Flgs: (2) S-344-37 SA-105 70,000
* Full X-Ray Long Seam.

INDUSTRIAL FABRICATING CO.

TULSA
OKLA., USA

SUBSIDIARY OF WORD INDUSTRIES.



NAT'L. BD. NO.

12238

P.O. NO.

5103-P-021-10

SERIAL NO.

116260-4

ITEM NO.

106-C

SIZE

1137X288

TYPE

111BEM

SURFACE

5705

SQ. FT.

SHELL THK.

13/8

CHAN. THK.

117/8

W.O.

13-16280-D

DATE

16-76

SHELL W.P.

1130

P.S.I.

260

°F.

TEST

210

P.S.I.

TUBE W.P.

11440

P.S.I.

1300

°F.

TEST

1660

P.S.I.

TUBES

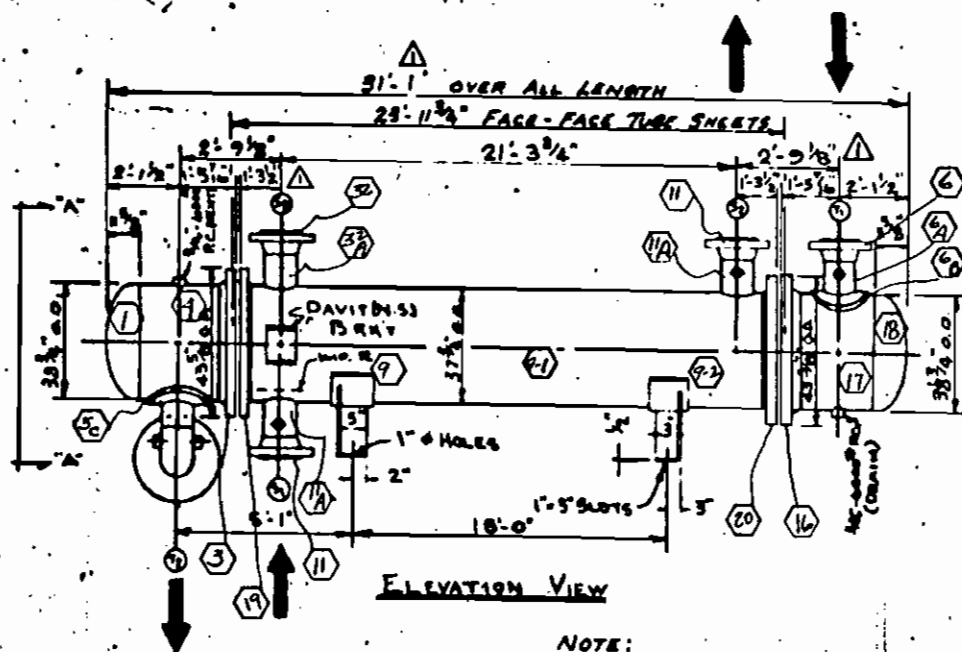
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SHIFTESS BEW HEATER

X-SA 263 TP 460 S S

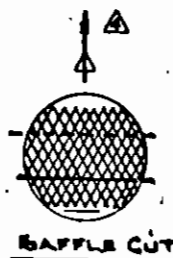
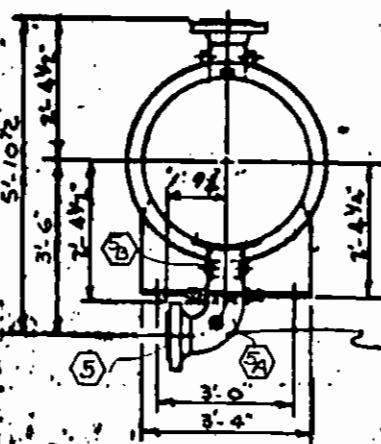
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ELEVATION VIEW

NOTE:
STENCIL PAINT ON SIDE OF SHELL:
ITEM NO.: 106-C
SHIPPING WT.: 27,100 #
P.O. NO.: 5103 - P-C21-103 (A)



BAFFLE CUT

SPECIFICATIONS FOR ONE

	SHELL SIDE	TUBE SIDE	MATERIALS
DESIGN PRESSURE PSIG	130	449	TUBES - SA-268-TP430 (SA-450) (TUBES BE DUAL TESTED.)
TEST PRESSURE PSIG	210	660	SHELL & BAFFLES - TP 304 STN. STL. CHAN. - C STL.
DESIGN TEMPERATURE °F	260	300	
NUMBER OF PASSES			
CORROSION ALLOWANCE	NONE	1/4"	
TUBE SURFACE: 5705 A 50 FT. TUBE PITCH 15 1/16 A			
NO. OF TUBES: 1245 3/4" O.D. x 14 BWG (AVG) x 24' 0" LG			
ALL BOLT HOLES TO STRADDLE C.S.			
BOLTING PROTECTED WITH HIGH TEMP THREAD LUBE			
LOCATE 2 - 3/4" 6000° PIPE COIL IN EA. NO. TELL			
SPOT X-RAY CHANNELS: (EXCEPT 53)			
SPOT X-RAY SHELL			
SEAL WELD SADDLES TO SHELL			
HEAT TREAT CHANNELS			
SANDBLAST OUTLET CHANNEL			
ONLY PER SP-6 & PAINT WT			
1-COAT CARBOLINE CARBO ZINC II (3 MILS. D.P.T.)			
SOLVENT CLEAN SHELL SUPPORTS PER SP-1 / PAINT OUTSIDE 2 COATS			
CARBOLINE 4674 (BLACK) 1.5 MILS. (D.P.T.) PER COAT. A			
MAGNIFLUX OR DYE CHECK ARC STRIKES, & TEMPORARY ATTACHMENT WELDS AFTER REMOVAL			
COAT NO. FLG. GSKT. SURFACES W/ RUST PREVENTATIVE			
DESIGNED & CONSTRUCTED IN ACCORDANCE W/ TEMA "R", M.W.K. SPEC. CAL-ILM, API-660 & PURCH DATA SHEET, 1974 ASME CODE (SECT VIII) & SO STAMPED BY NATIONAL BOARD			
CUSTOMER: WM. KELLOGG CO. INTERNATIONAL MINERAL / CHEMICAL CO. STERLINGTON, LA. P.O. NO.: 5103 - P-C21-103 (A) ITEM NO.: 106-C M.W.K. REQ'N. NO.: 5103 - R-C21-103 M.W.K. JOB: 5103-P A			ESTIMATED WEIGHTS
			DRY 27,100 #
			WET 38,500 #
			REV DATE DESCRIPTION
			1/2 GEN. REV. / CUST.
			2/15 ADDD PAINT NOTE / COST
			10/1 GEN. REV. / I.F.C.
			3/1 REV TUBE PITCH INFO
			7/1 REV TEST PRESS / I.F.C.

GASKET MATERIAL
18-8 STN STEEL
JACKETED ASBESTOS
FILLED

CUSTOMER: WM. KELLOGG CO.
INTERNATIONAL MINERAL / CHEMICAL CO.
STERLINGTON, LA.
P.O. NO.: 5103 - P-C21-103 (A)
ITEM NO.: 106-C
M.W.K. REQ'N. NO.: 5103 - R-C21-103
M.W.K. JOB: 5103-P A

ESTIMATED WEIGHTS

DRY 27,100 #
WET 38,500 #

REV	DATE	DESCRIPTION
1/2		GEN. REV. / CUST.
2/15		ADDD PAINT NOTE / COST
10/1		GEN. REV. / I.F.C.
3/1		REV TUBE PITCH INFO
7/1		REV TEST PRESS / I.F.C.

NOZZLES

T1	16"-300° RF-WN
T2	16"-300° RF-WN
B1	8"-150° RF-WN
B2	8"-150° RF-WN
B3	2"-150° RF-WN

INDUSTRIAL FABRICATING COMPANY

ASSEMBLY & SPECIFICATIONS FOR
ONE "BEM" 37" x 288" - 5705 A

SERVICE SHIFT EFFLUENT BFW HEATER

125 RMS FINISH
ON NM

1" Rob 12.2.74 RCT S-5260

CLIENT: INTERNATIONAL MINERAL CHEM. Co.
 STERLINGTON, LA.
 MWK. REGN No. 5103-P-C21-103
 ITEM No. 106-C
 SERVICE: SHIFT EFF BFW HEAT
 MWK. P.O. No. 5103-P-C21-103A
 MWK. JOB No. 5103-P

98880

1245

NO. OF HOLES PER PASS

NOTES

- 1.) DRILL & REAM TUBE HOLES IN TUBE SHEETS TO 0.760" ± 0.002 " DIA. FOR 1245-0.7500" O.D. TUBES
- 2.) TUBE PITCH-0.938" 
- 3.) 1-PASS
- 4.) SEE DWG. S-5260-D-5 FOR TUBE HOLE GROOVING DETAIL
- 5.) TAPE PROGRAM BASED ON 43.6250" O.D. TUBESHEET

INDUSTRIAL FABRICATING COMPANY

TUBES, GALVANIZED

TUBE LAYOUT

SIZE: 37 x 288

JOB: S-5260

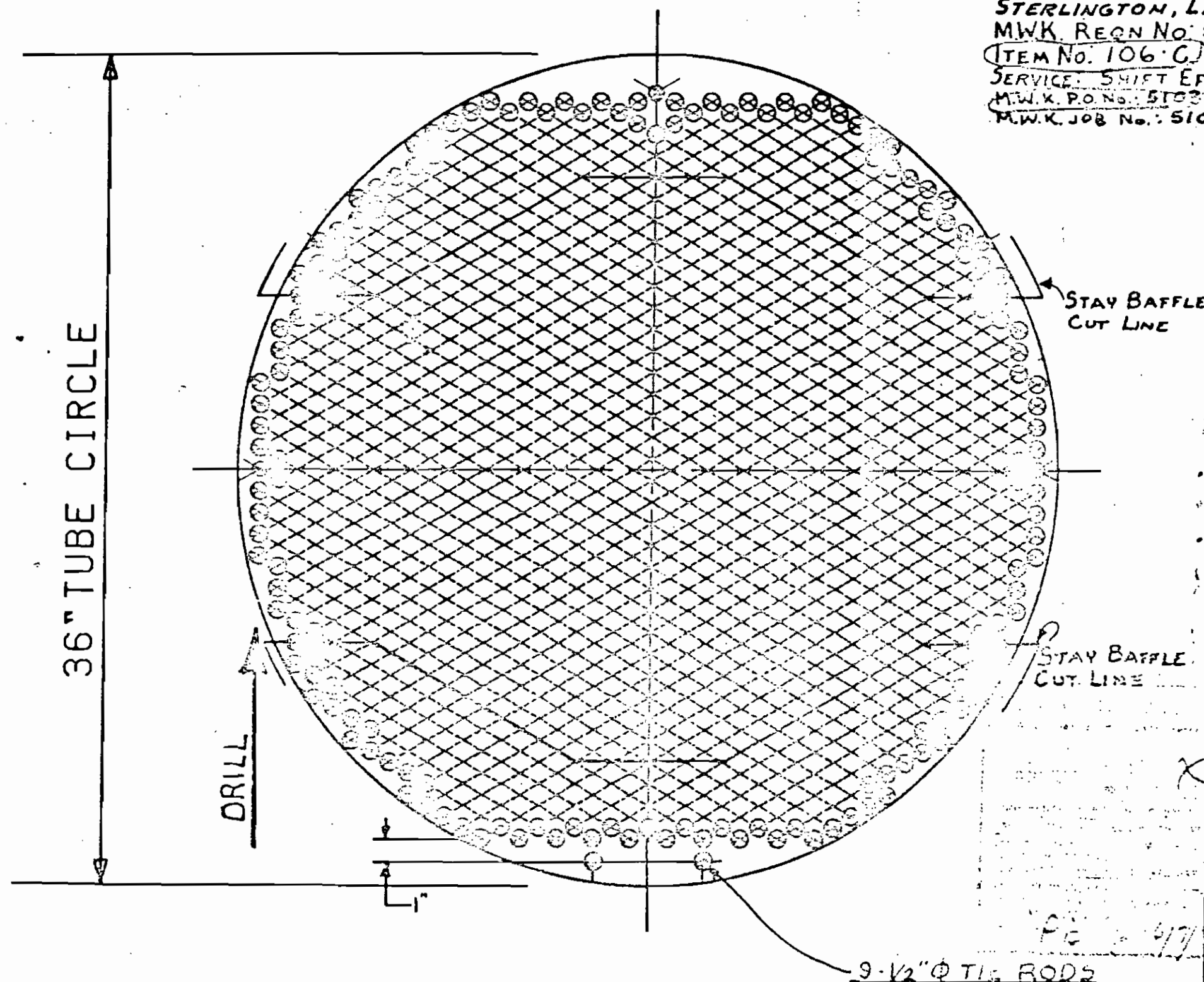
1-REQ'D.

GM

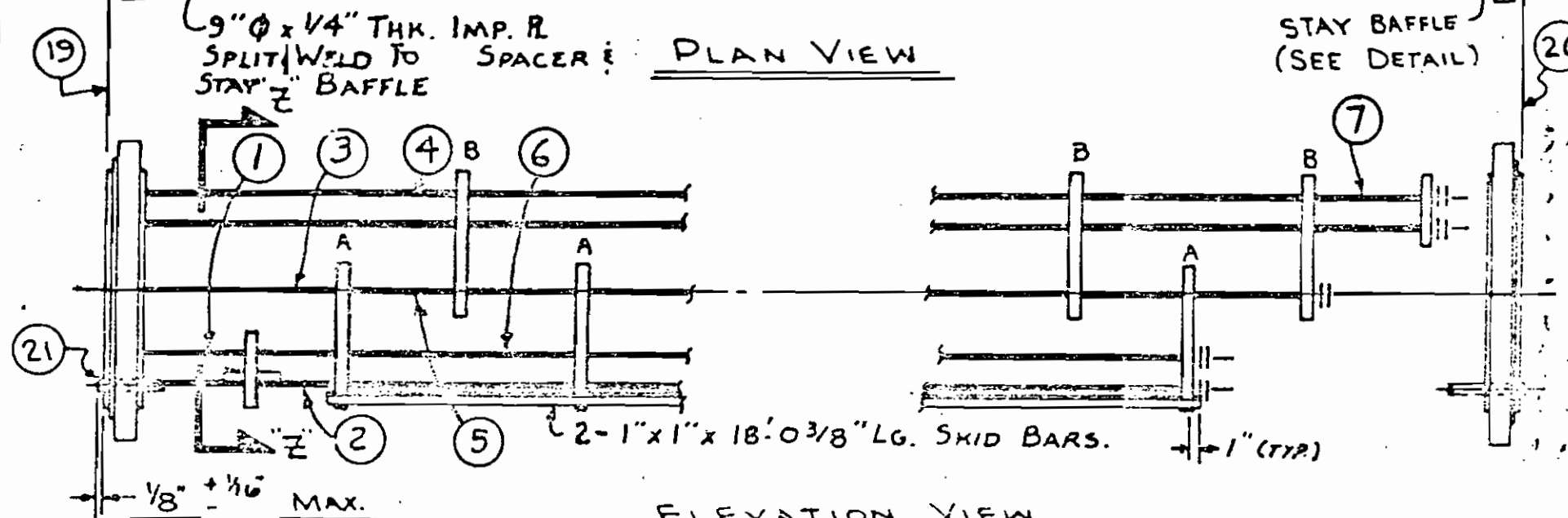
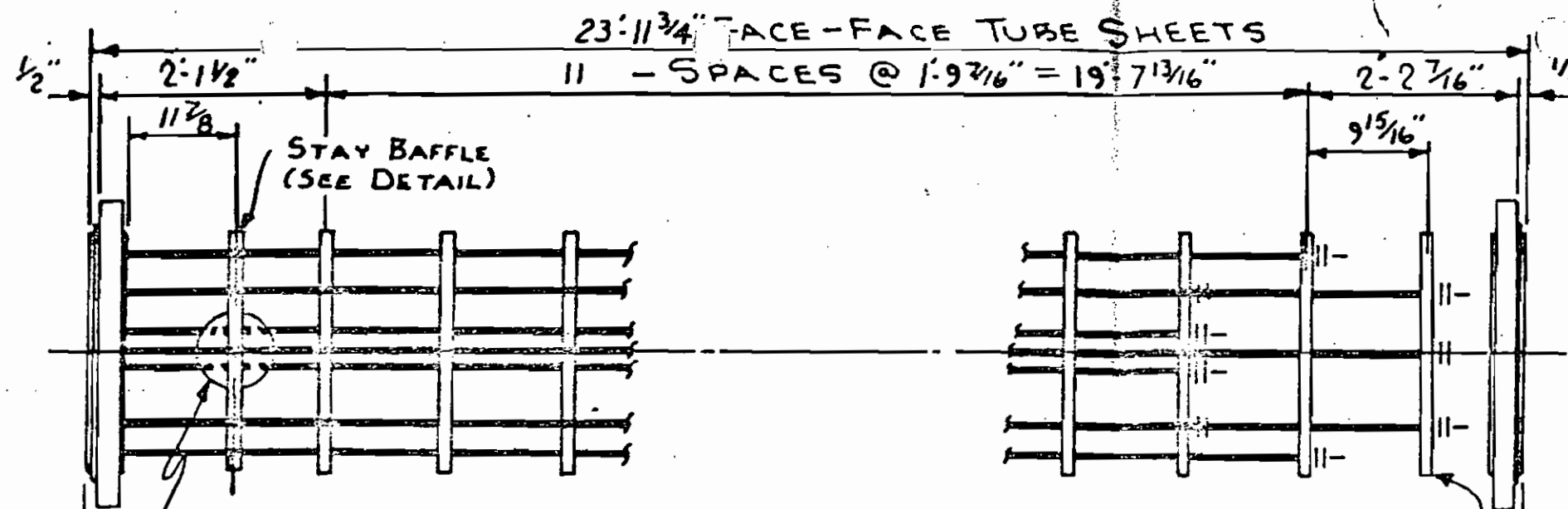
DATE 10-1-75

BY

S-5260
D-6

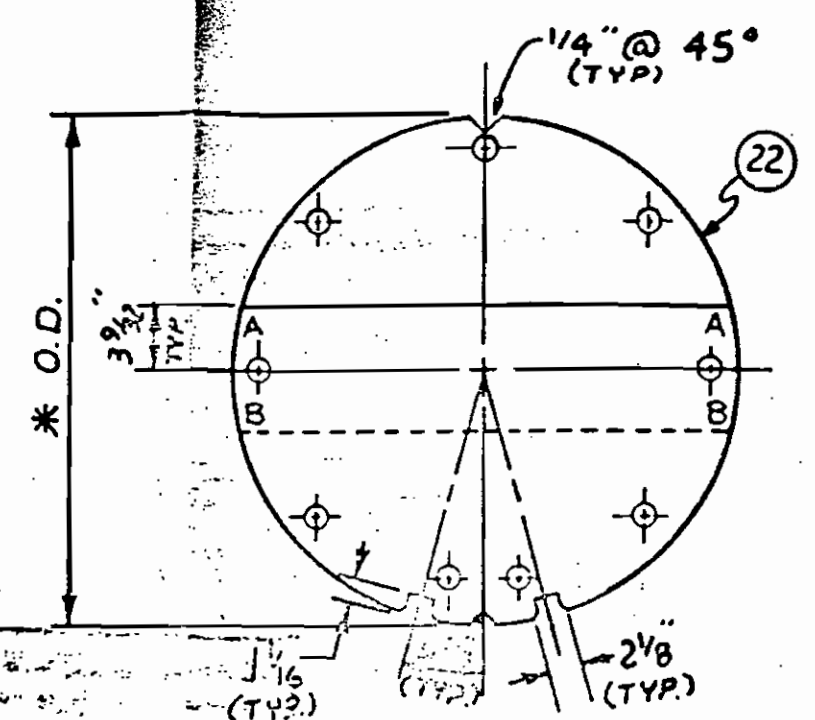


VIEW LOOKING AT SHELL SIDE OF NO. 19 TUBESHEET



* CHECK SHELL I.D. & ADVISE ENG'R FOR BAFFLE O.

98880



MAT'L 304 STN. STL. 1-REQ'D 3/8" THK.

INDUSTRIAL FABRICATING COMPANY
TULSA, OKLAHOMA

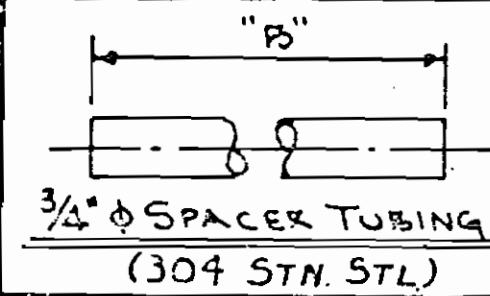
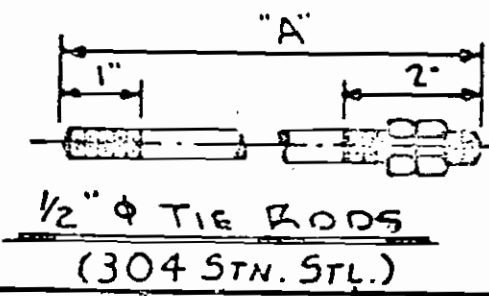
FIXED TUBE SHEET
BUNDLE DETAIL

SIZE: 37" x 238"
JOB: S-5260
DWN GM DATE 10-1-75 CK S-5260 D-7

CLIENT: INTERNATIONAL MINERAL & CHEMICAL CO.
STERLINGTON, LA. (P.O. BOX 5103-P-021-103(A))
M.V.K. REQ'D NO: 5103-P-021-103
ITEM NO. 106-C M.V.K. JOB NO.: 5103-P
SERVICE: SHIFT EFF BEW HEATER

NOTES ~

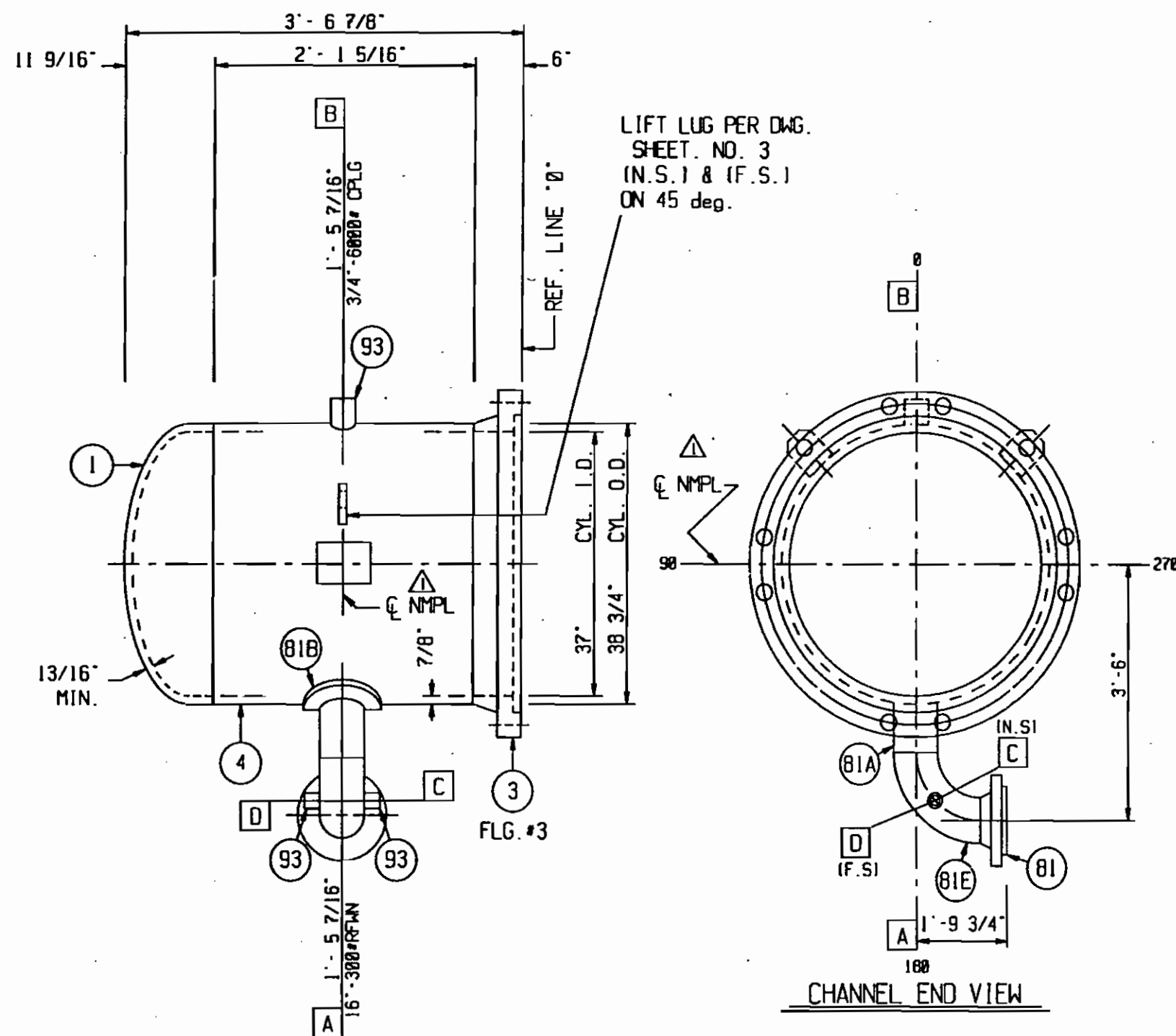
- 1) DRILL TUBE HOLES 49/64" DIA. & DEBURR.
- 2) DRILL TIE RODS HOLES 9/16" DIA.
- 3) RADIUS ALL CORNERS ON BAFFLE CUTS.
- 4) WELD SKID BARS SECURELY TO EACH BAFFLE ON EACH-SIDE (RADIUS ALL OUTSIDE EDGES)



REQ'D.	"A"	REQ'D.	"B"	REQ'D.	"B"
3	22'-5 7/8"	4 (1)	11 1/16"	2 (5)	1-8 15/16"
2	21'-7 7/8"	4 (2)	9 9/16"	3 (2)	3'-6 3/8"
4	19'-10 1/8"	2 (3)	1'-9 5/8"	3 (7)	9 1/2"
		3 (4)	3'-7 1/16"		

98880

FOR FLANGE DETAILS SEE DWG. SHEET. NO. 4



CHANNEL SIDE VIEW

CHANNEL END VIEW

CERTIFIED BH

DATE 8-17-99

DESIGN DATA

DESIGN DATA	SHELL	TUBE
DESIGN PRESSURE P.S.I.G.	130	440
TEST PRESSURE P.S.I.G.	N/A Δ	N/A Δ
DESIGN TEMPERATURE DEG. F. (MAX./MIN.)	260 /-20	300 /-20
CORROSION ALLOWANCE	.0000"	.25"
NUMBER OF PASSES	1	1
RADIOGRAPHIC EXAMINATION	N/A Δ	SPOT
HEAT TREAT REQUIRED	N/A Δ	NO

ESTIMATED WEIGHTS, LBS.

WEIGHT OF FRONT CHANNEL = 2,750 LBS.

SPECIFICATIONS

ASME CODE SECT. VIII, DIV.1, 1998 ED. (STAMP YES) Δ
TEMA CLASS C
NATIONAL BOARD REGISTRATION REQUIRED

MATERIAL

CHANNEL CYL.: SA-240-304
END FLANGE: SA-336-F304
NOZZLE NECK: SA-312TP304
NOZZLE FLANGE: SA-182-F304

GENERAL NOTES

- 1) ALL BOLT HOLES TO STRADDLE CENTER LINES.
- 2) FOR WELD & BEVEL DETAILS SEE DWG. SHEET. NO. 2
- 3) SPOT RADIOGRAPHY. (IN ADDITION AT LEAST ONE SPOT RADIOGRAPH REQ'D. AT HEAD TO CHANNEL CYL. GIRTH SEAM.)

PAINT: NONE

AS BUILT

TYPE UNIT : B E M SIZE : 37-288

D	3/4" -6000#CPLG.								
C	3/4" -6000#CPLG.								
B	3/4" -6000#CPLG.		I	REVISED AS NOTED	TAN	CH	8-17-99		
A	16" - 300#RF WN		0	RELEASE FOR FAB.	TR	BH	7-9-99		
MK	SIZE-RATE	SERVICE	NO.	REVISIONS	BY	CHK.	DATE CHK.		

CUSTOMER: KOCH NITROGEN CO.
OHMSTEDE JOB NO.: 933131
P.O. NO.: 9900889
ITEM NO.: A-106-C (HEAD)
SERVICE : SHIFT EFFLUENT BOILER FEED WATER HEATER

FRONT CHANNEL / DESIGN DATA

OHMSTEDE

DRAWING NO.	SHEET NO.	REV.
933131	1	1

STAMP ON SHELL (SEE DWG. S-5260-D-3)
FOR LOCATION

98880

NAT'L BD. No.: 2238
IND. FAB. CO.

(U)

W
P.H.T.
RT-3

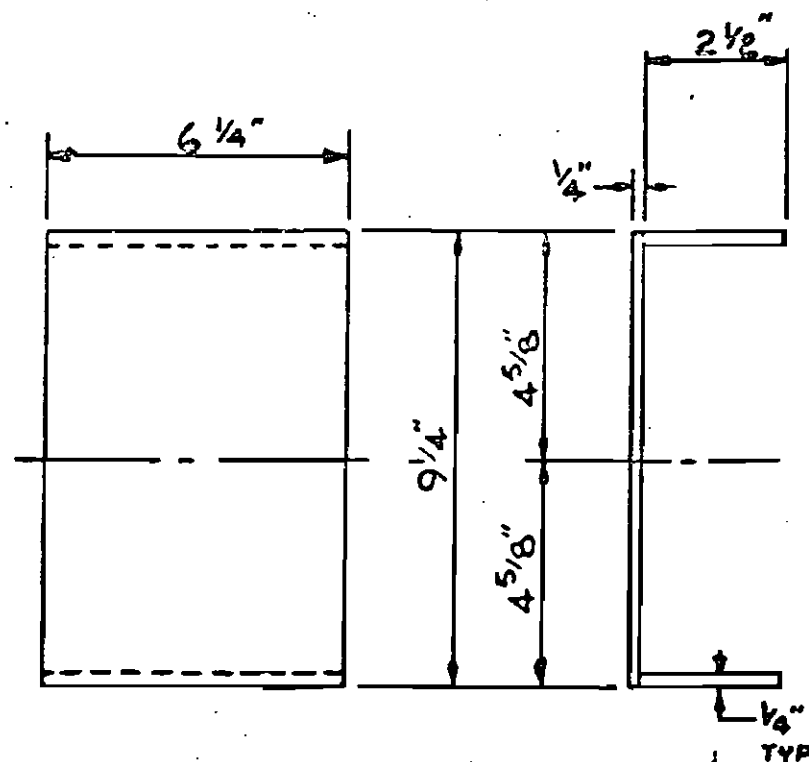
(C.U.)

DESIGN PRESS. S.S. 130 P.S.I.
T.S. 440 P.S.I.

DESIGN TEMP. S.S. 260 °F
T.S. 300 °F

SERIAL No.: 5260-4

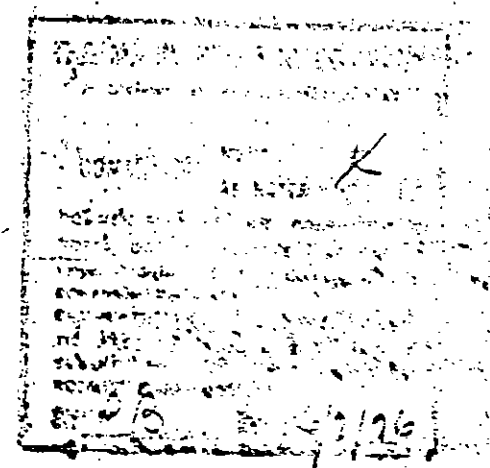
DATE:



NAME R BRACKET DETAIL

TULSA INDUSTRIAL FABRICATING CO. OKLA. USA			
NAT'L BD. No.	P.O. No.		
2238	5103-P-C21-103(A)		
SERIAL NO.	ITEM NO.		
5260-4	106-C		
SIZE	TYPE		
37" x 28"	BEM		
SURFACE	SHELL THK.	CHAN. THK.	
5705 EFF SQ. FT.	3/8"	7/8"	
P.H.T.	W.O.	DATE	
RT-3	S-5260-D		
SHELL W.P.	PSI.	°F TEST	PSI.
130	260	195	
TUBE W.P.	PSI.	°F TEST	PSI.
440	300	660	
TUBES 1245 - 3/4" O.D. x 16 BWG (AVG) x 24' O.L.G. *			
SHIFT EFFLUENT BFW HEATER			
* SA-268-TP430 STN. STL.			

WELD STN. STL. NAME R EMBLEM TO BRKT.



M.W.K. Job No. 5103-P
P.O. No. 5103-P-C21-103(A)
CLIENT: INTERNATIONAL MINERAL & CHEMICAL CO.
STERLINGTON, LA.
M.W.K. Acct. No. 5103-P-C21-103
(ITEM No. 106-C)
SERVICE: SHIFT EFF BFW HEATER

INDUSTRIAL FABRICATING COMPANY			
TULSA, OKLAHOMA			
<u>NAME R DETAIL</u>			
SIZE: 37" x 28"			
JOB: S-5260		I-REQ'D.	
OWN GM	DATE 10-1-75	CK Don	S-5260 D-9