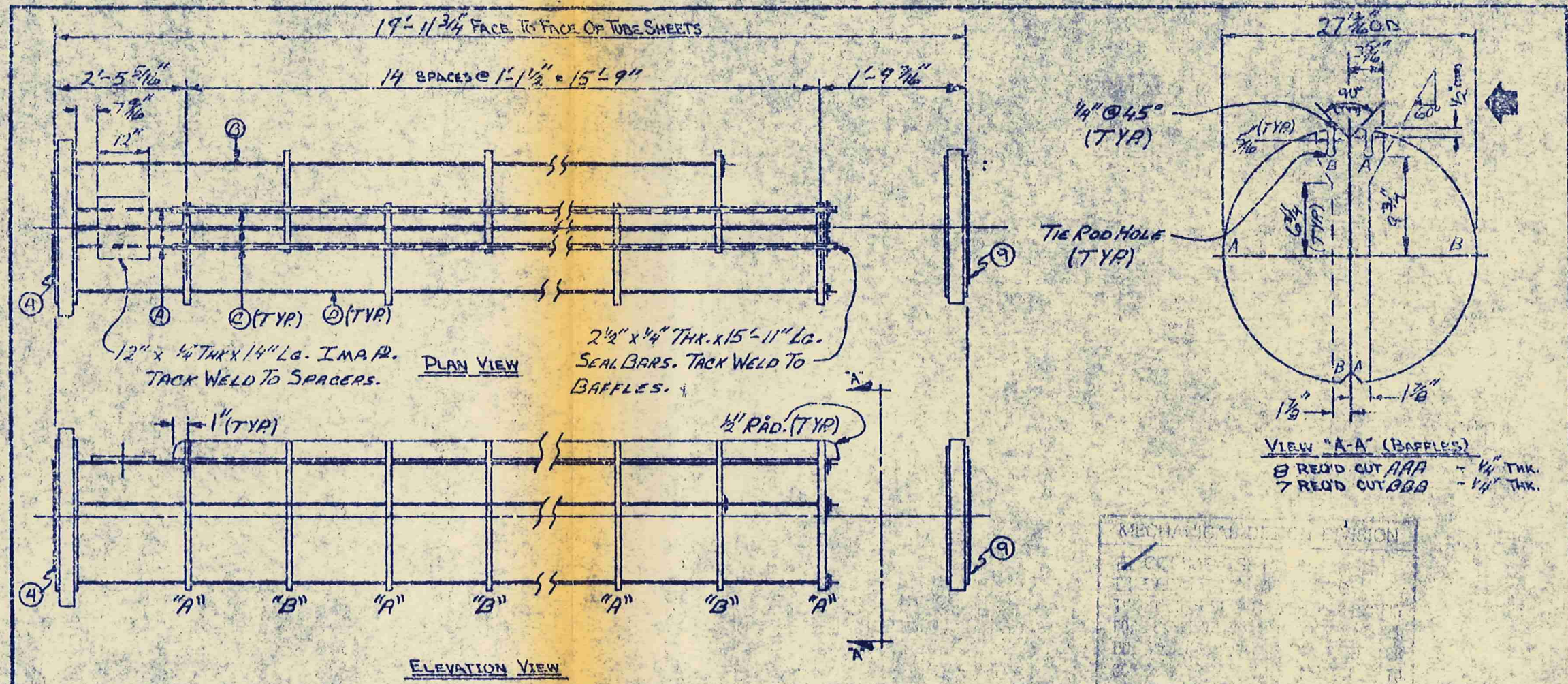


FOREIGN PRINT FILE
HOUSTON CHEMICAL COMPANY
DIVISION OF
PPG INDUSTRIES, INC.
BEAUMONT, TEXAS 77704

JOB. NO. _____ DATE 2/19/77 P.O. 1607-009
DEPT. Glycol EQPT. NO. 21-08-026
VENDOR Hughes-Anderson
MFR. _____
EQPT. USED FOR Reabsorber Water Cooler



3/4" O.D. SPACER TUBING		
MK	No.	"X"
(A)	4	2'-3 7/16"
(B)	1	3'-4 5/16"
(C)	42	1'-1 1/4"
(D)	13	2'-2 3/8"

1/2" DIA. TIE ROD		
No.	"Y"	
4	18'-3"	
1	17'-1 1/2"	

NOTES!
1. DRILL 1 1/8" DIA. HOLES IN BAFFLES FOR TUBES.
2. DRILL 3/16" DIA. HOLES IN BAFFLES FOR TIE RODS.
3. DEBURK ALL TUBE HOLES AND REMOVE ALL SHARP CORNERS.

FINAL DESIGN

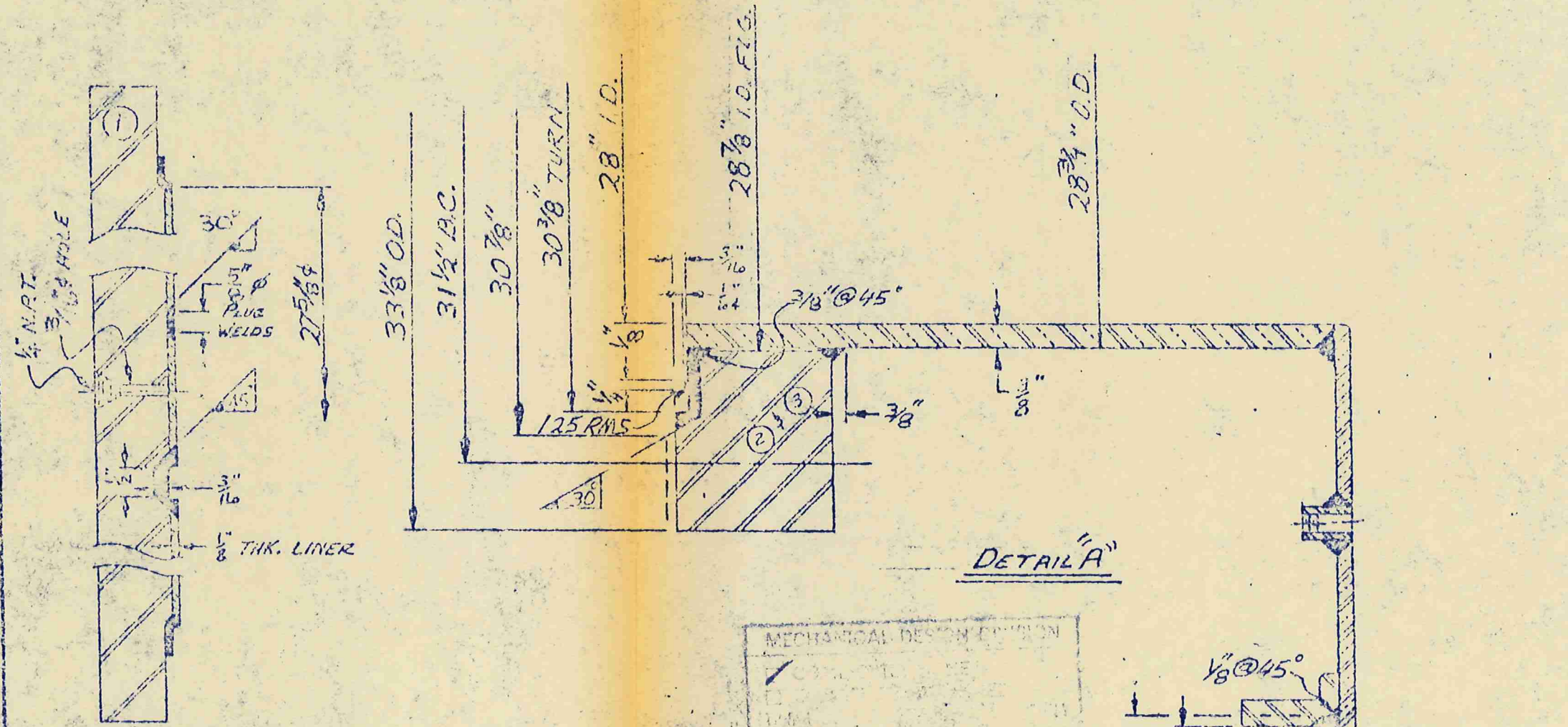
MECHANICAL DESIGN DIVISION
3-24-76 UO

JOB # 1607
ITEM # E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE <u>BUNDLE DETAILS</u>			
WORK ORDER <u>1823</u>	NUMBER REQ'D <u>ONE</u>		
DR <u>STEVE</u>	DATE <u>2-18-76</u>	SIZE <u>28" x 20"</u>	DRAWING NUMBER
CK <u>MP</u>	SCALE <u>NONE</u>	TYPE <u>AFM</u>	<u>1823-09</u>

FOREIGN PRINT FILE
HOUSTON CHEMICAL COMPANY
DIVISION OF
PPG INDUSTRIES, INC.
BEAUMONT, TEXAS 77704

JOB. NO. _____ DATE 2/18/77 P.O. 1607-009
DEPT. Physical EQPT. NO. 21-08-026
VENDOR Hughes Anderson
MFR. _____
EQPT. USED FOR Reabsorber Water Cooler



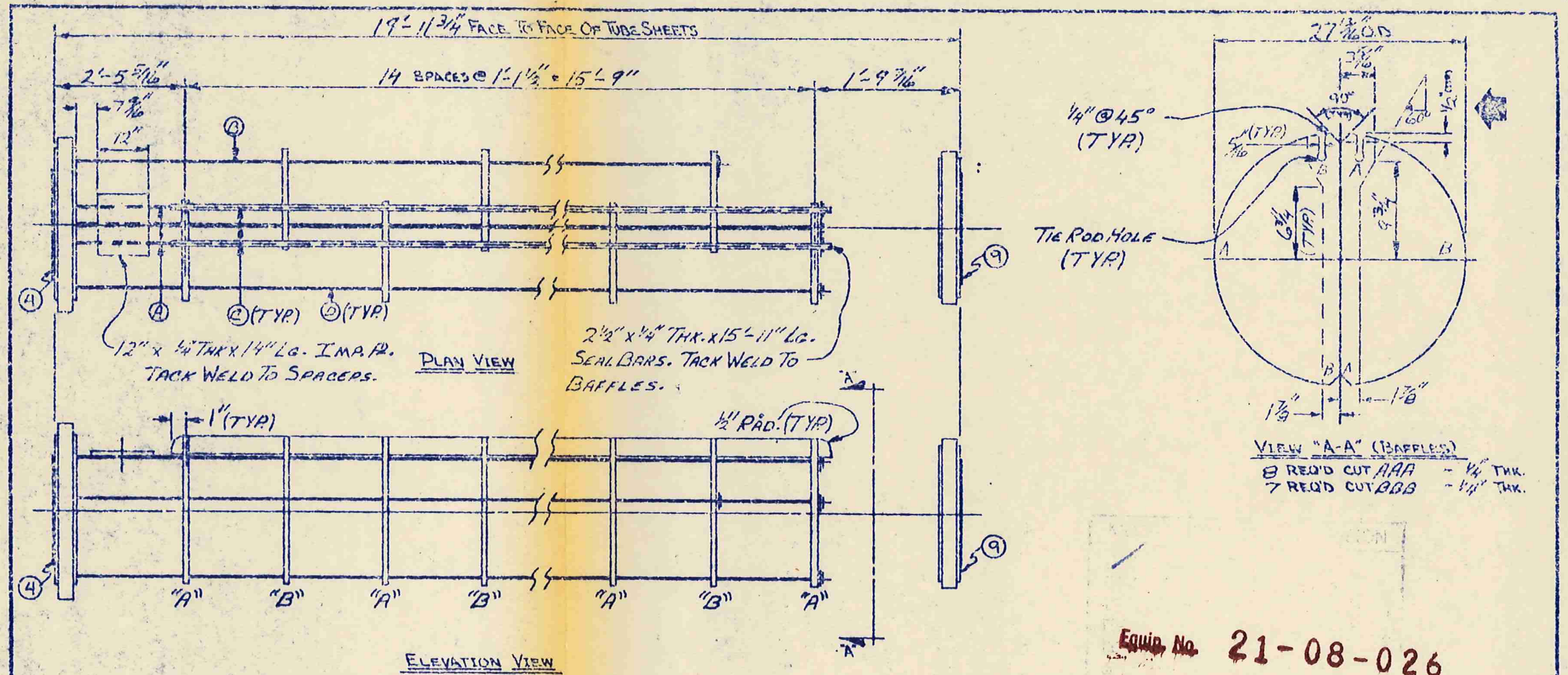
- NOTES:
1. ALL OVERLAY TO BE IN 309-L FIRST PASS & 308-L REMAINDER & IN ACCORDANCE W/ PROCEDURES UCL-43 (308-L-1-A) & UCL-43 (308-L-1-M).
 2. ALL OVERLAY TO HAVE CHEM. ANALYSIS.

MECHANICAL DESIGN DIVISION
3-24-76

FINAL DESIGN

JOB # 1607
ITEM # E-1404

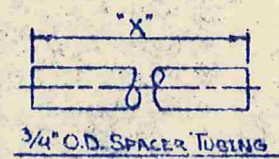
HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE <u>OVERLAY DETAILS</u>		NUMBER REQ'D <u>ONE</u>	
WORK ORDER <u>1823</u>	DATE <u>2-24-76</u>	SIZE <u>28" x 20"</u>	DRAWING NUMBER
DR. <u>STEVE</u>	SCALE <u>NONE</u>	TYPE <u>AFM</u>	<u>1823-016</u>



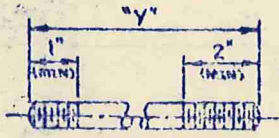
Equip. No. 21-08-026

3-24-76 UOS

FINAL DESIGN



MK	No.	"X"
(A)	4	2'-3 1/16"
(B)	1	3'-4 5/16"
(C)	42	1'-1 1/4"
(D)	13	2'-2 3/8"



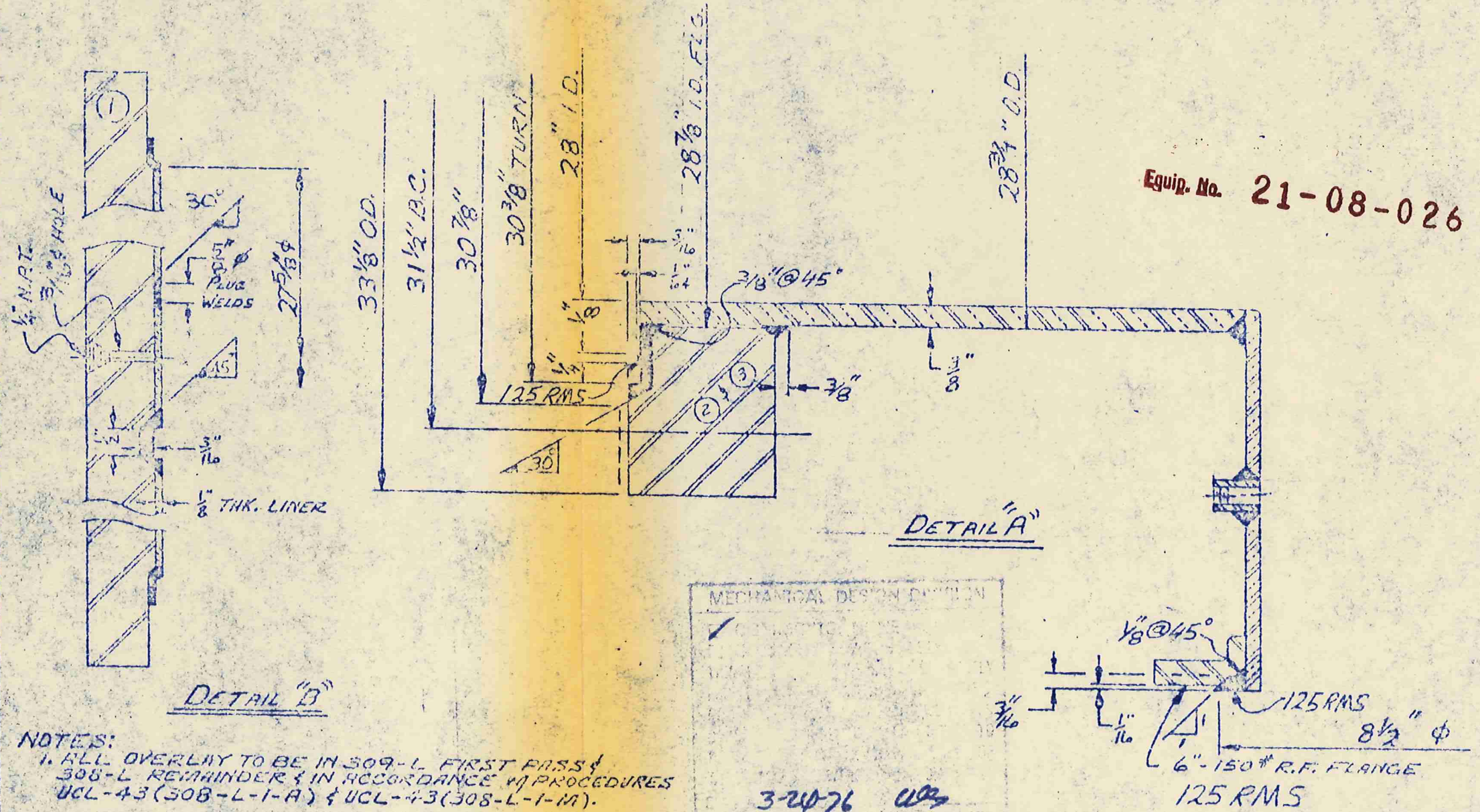
No.	"Y"
4	18'-3"
1	17'-1 1/2"

- NOTES!
1. DRILL 1 9/16" DIA. HOLES IN BAFFLES FOR TUBES.
 2. DRILL 3/16" DIA. HOLES IN BAFFLES FOR TIE RODS.
 3. DEBURR ALL TUBE HOLES AND REMOVE ALL SHARP CORNERS.

JOB# 1607
ITEM# E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE BUNDLE DETAILS			
WORK ORDER 1823	NUMBER REQ'D ONE		
DR. STEVE	DATE 2-18-76	SIZE 28" x 20"	DRAWING NUMBER
CK. [Signature]	SCALE NONE	TYPE AFM	1823-09

Equip. No. 21-08-026

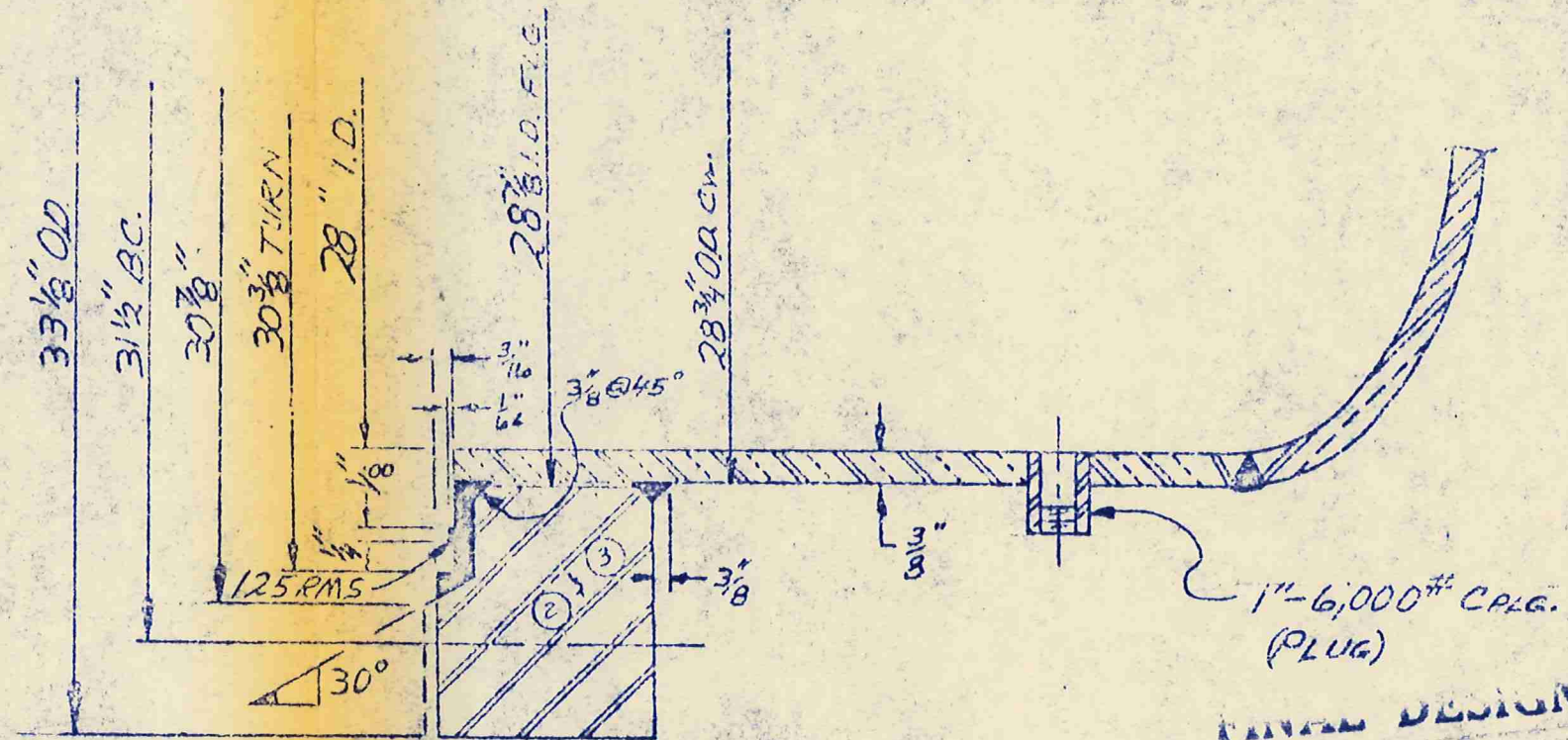


- NOTES:
1. ALL OVERLAY TO BE IN 309-L FIRST PASS & 308-L REMAINDER & IN ACCORDANCE W/ PROCEDURES UCL-43 (308-L-1-A) & UCL-43 (308-L-1-M).
 2. ALL OVERLAY TO HAVE CHEM. ANALYSIS.

FINAL DESIGN

JOB # 1607
ITEM # E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE OVERLAY DETAILS			
WORK ORDER 1823	NUMBER REQ'D ONE		
DR. STEVE	DATE 2-24-76	SIZE 28" x 20"	DRAWING NUMBER
CK. [Signature]	SCALE NONE	TYPE AFM	1823-016



DETAIL "A"

FINAL DESIGN

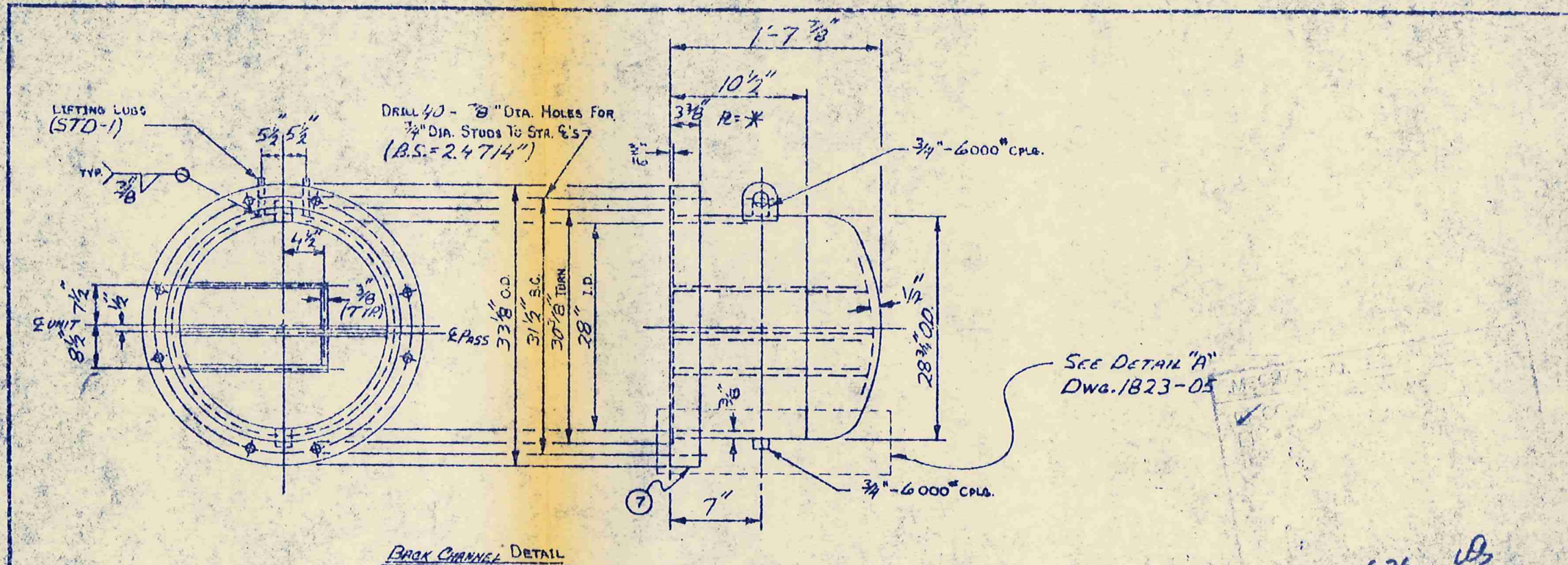
Equip. No. 21-08-026

3-24-76 UZ

- NOTES:
1. ALL OVERLAY TO BE IN 309-L FIRST PASS & 308-L REMAINDER & IN ACCORDANCE W/ PROCEDURES UCL-43(308-L-1-A) & UCL-43(308-L-1-1A).
 2. ALL OVERLAY TO HAVE CHEM. ANALYSIS.

JOB # 1607
ITEM # E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE <u>OVERLAY DETAILS</u>		NUMBER REQD <u>ONE</u>	
WORK ORDER <u>1823</u>	DATE <u>2-24-76</u>	SIZE <u>28x20</u>	DRAWING NUMBER
DR <u>STEVE</u>	SCALE <u>NONE</u>	TYPE <u>AFM</u>	<u>1823-05</u>



BACK CHANNEL DETAIL

SEE DETAIL "A"
DWG. 1823-05

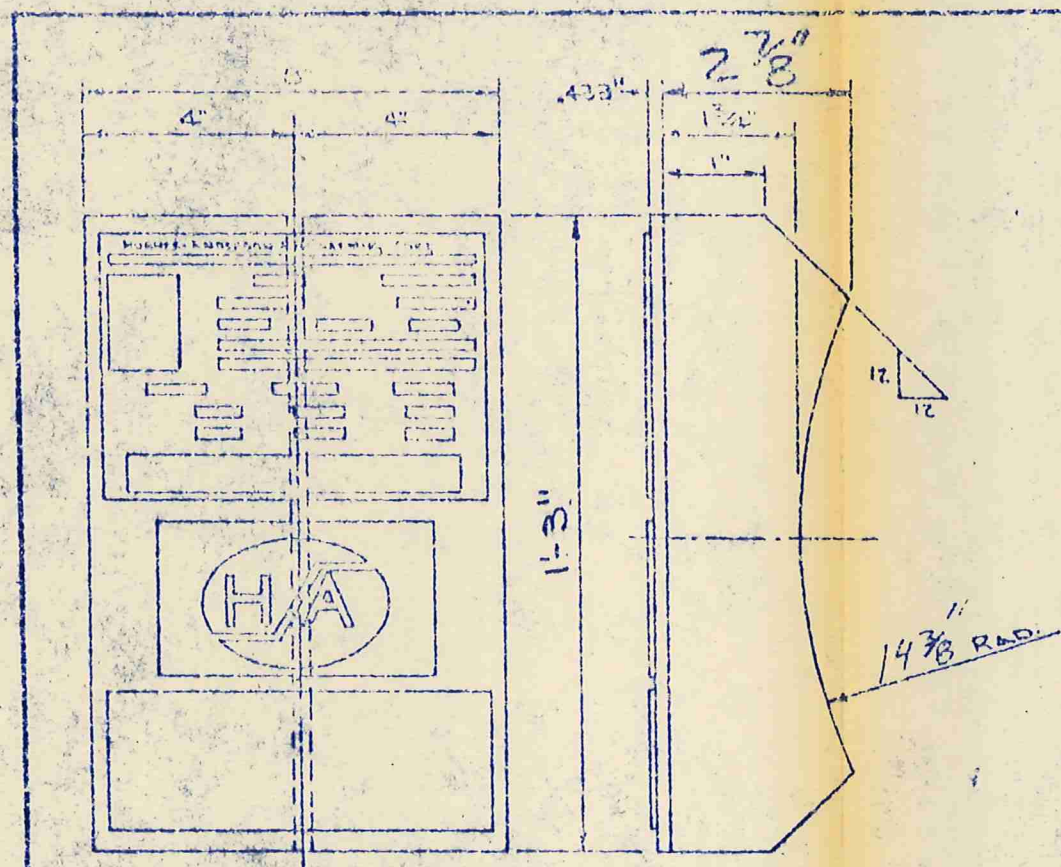
3-24-76 *AS*

USE R - 89 3/8" x 3/8" THK. x 1'-10" LG.

FINAL DESIGN

- NOTES
- 1) SPOT X-RAY BACK CHANNEL
 - 2) SEE DWG. STD.-1 FOR WELD DETAILS.
 - 3) BOLT HOLES TO STRADDLE ϵ 'S
 - 4) ALL WELDING TO BE IN ACCORDANCE ^W PROCEDURES MA-304, SA-304 AND SA-1-8.
 - 5) ALL OVERLAY TO BE 308L1 ϵ PASS 309L REMAINDER IN ACC. ^W PROCEDURES UCL-43(308-L-1-M) AND UCL-43(308-L-1-A).
 - 6) ALL OVERLAY TO HAVE CHEM. ANALYSIS.

Equip. No. 21-08-026			
Job # 1607			
ITEM # E-1404			
HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE <u>BACK CHANNEL DETAILS</u>			
WORK ORDER 1823	NUMBER REQ'D ONE		
DR STEVE	DATE 2-23-76	SIZE 28" x 20"	DRAWING NUMBER
CK <i>DP</i>	SCALE NONE	TYPE RFM	1823-04



HUGHES-ANDERSON ENGINEERING CORP

REABSORBER WATER COOLER

	NAT'L. BOARD NO. <input type="text" value="452"/>	ITEM NO. <input type="text" value="E-1404"/>	
	P.O. NO. <input type="text" value="1607-007"/>	SERIAL NO. <input type="text" value="1823"/>	
	SIZE <input type="text" value="28x20"/>	TYPE <input type="text" value="AFM"/>	SURFACE <input type="text" value="2315"/>
	RT. <input type="text" value="SPOT CHANNELS E SHELL"/>		
DATE <input type="text"/> SHOP TEST SHELL <input type="text" value="120"/> PSI. TUBES <input type="text" value="115"/> PSI.			
SHELL M.A.W.P. <input type="text" value="90"/> PSI. AT <input type="text" value="170"/> °F FIELD TEST <input type="text" value="120"/> PSI.			
TUBES M.A.W.P. <input type="text" value="75"/> PSI. AT <input type="text" value="190"/> °F FIELD TEST <input type="text" value="115"/> PSI.			
TUBES <input 16="" 20'-0\"="" b.w.g.="" o.d.="" sa-249-304"="" type="text" value="810-3/4\" x=""/>			

<p>HOUSTON CHEMICAL COMPANY DIVISION OF PPG INDUSTRIES INC. BEAUMONT, TEXAS</p>	Equip. No. <input type="text" value="21-08-026"/>
	NAT'L. BOARD NO. <input type="text" value="452"/>
	MANUFACTURER'S NO. <input type="text" value="SA-249-304"/>
	DESIGN PRESS. PSI. <input type="text" value="80"/> <input type="text" value="75"/>
	DESIGN TEMP. °F <input type="text" value="170"/> <input type="text" value="190"/>
	DESIGNING ENG. <input type="text"/>
	DESIGNING DATE <input type="text"/>
	SIGN. <input type="text" value="3/8"/> INCH <input type="text" value="1/2"/> INCH HEAD <input type="text" value="25 5/8"/> INCH
	MANUFACTURER'S NAME <input type="text" value="HUGHES ANDERSON ENGINEERING"/>
	SERIAL NO. <input type="text" value="1823"/> M.A.S. <input type="text" value="1376"/>

NAME & DETAIL

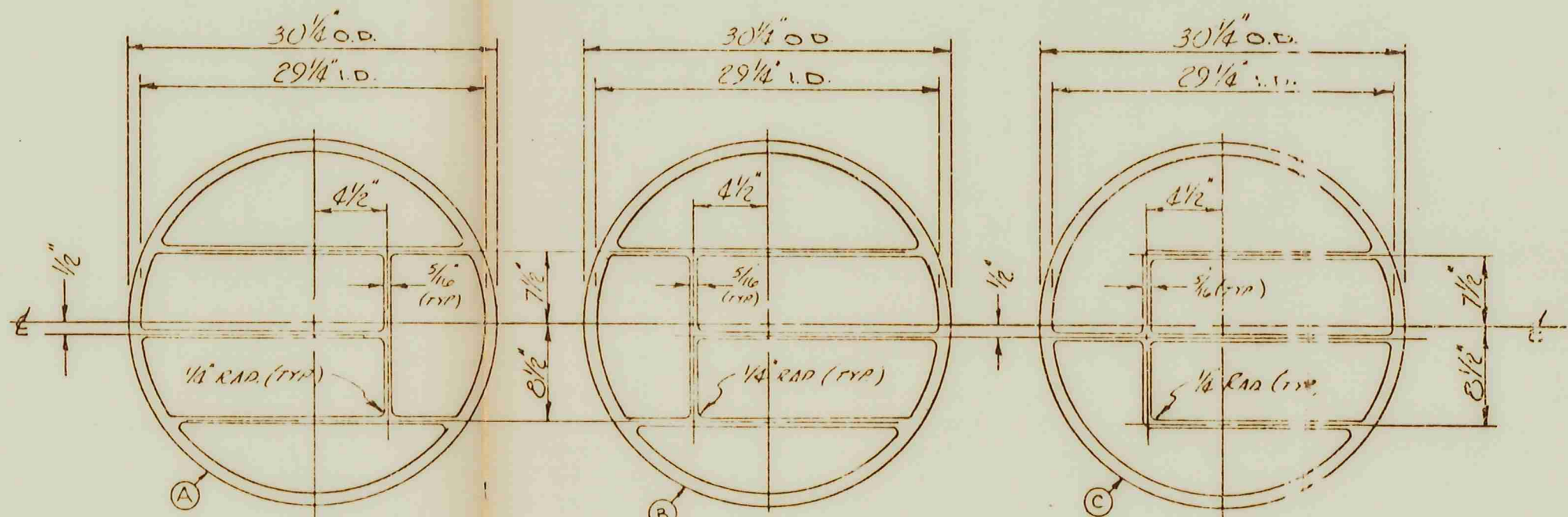
3-24-76 US
Equip. No. **21-08-026**
FINAL DESIGN

JOB # 1607
ITEM # E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE NAME & DETAIL			
WORK ORDER <input type="text" value="1823"/>	NUMBER OF COPIES <input type="text" value="ONE"/>		
DR. SCALE <input type="text" value="None"/>	DATE <input type="text" value="8-9-76"/>	SIZE <input type="text" value="28x20"/>	DRAWING NUMBER <input type="text" value="1823-10"/>
SCALE <input type="text" value="None"/>	TYPE <input type="text" value="AFM"/>		

FOREIGN PRINT FILE
HOUSTON CHEMICAL COMPANY
DIVISION OF
PPG INDUSTRIES, INC.
BEAUMONT, TEXAS 77704

JOB. NO. _____ DATE 2/16/77 P.O. 1607-009
DEPT. Physical EQPT. NO. 21-08-026
VENDOR Hughes-Anderson Engrs.
MFR. _____
EQPT. USED FOR Reabsorber-Water Cooler



CHANNEL COVER GASKET
1/8" THK. 304 STN. STL.
JACKETED ASBESTOS
FILLED. ONE REQ'D.
(J.M. 923 OR EQUAL)

CHANNEL GASKET
1/8" THK. 304 STN. STL.
JACKETED ASBESTOS
FILLED. ONE REQ'D.
(J.M. 923 OR EQUAL)

BACK CHANNEL GASKET
1/8" THK. 304 STN. STL.
JACKETED ASBESTOS
FILLED. ONE REQ'D.
(J.M. 923 OR EQUAL)

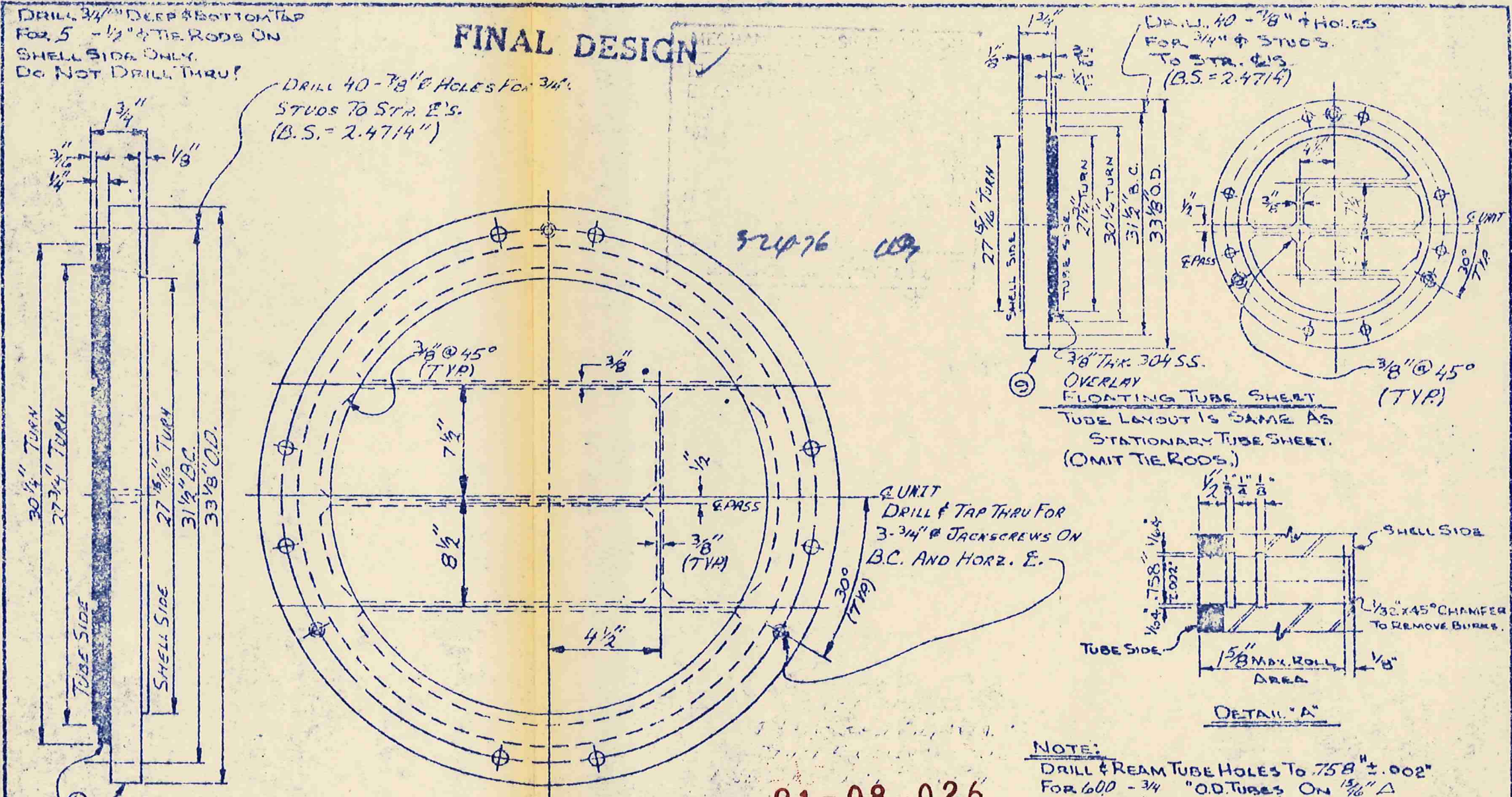
REQUIRED AS SHOWN FOR ONE SET

Equip. No. 21-08-026

HUGHES-ANDERSON ENGINEERING CORP.			
TULSA, OKLAHOMA			
DRAWING TITLE	SKETCH & TAILS	NUMBER REQ'D. <u>TWO SETS</u>	
WORK ORDER	<u>3</u>	DRAWING NUMBER	
CHK. <u>Ken</u>	<u>10/15/75</u>	SILENCE	<u>1823-11</u>
CHK. <u>Jim</u>	<u>None</u>	TYPE	<u>M</u>

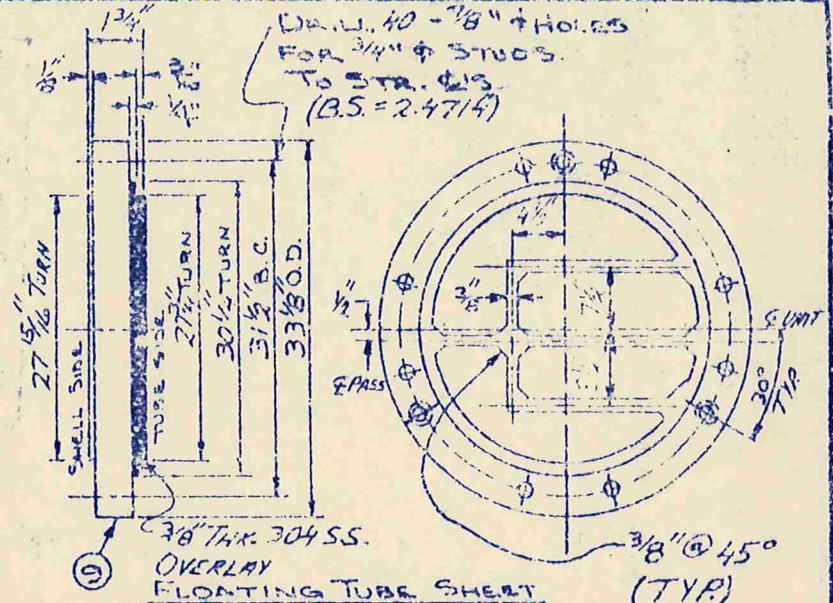
Q Rev. Pass Riss 11/14/75 Ken Q) Add J.M. Number / Rev. 3/22/76 Ken

FINAL DESIGN

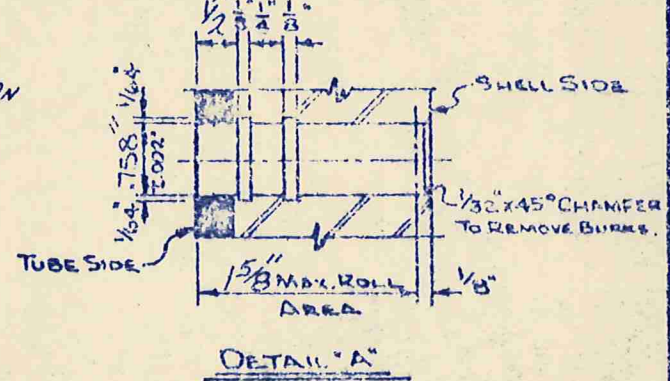


DRILL 3/4" DEEP \$ BOTTOM TAP FOR 5 - 1/2" TIE RODS ON SHELL SIDE ONLY. DO NOT DRILL THRU!

DRILL 40 - 7/8" Ø HOLES FOR 3/4" STUDS TO STR. E'S. (B.S. = 2.4714")



3/8" THK. 304 SS. OVERLAY FLOATING TUBE SHEET. TUBE LAYOUT IS SAME AS STATIONARY TUBE SHEET. (OMIT TIE RODS.)



NOTES:

1. HEAT TREAT FOR 1 1/4 HR @ 1100°F
2. CHEM. ANALYSIS OF ALL OVERLAY REQ'D.
3. OVERLAY TO BE 309L 1ST PASS & 308L REMAINDER & IN ACCORDANCE W/ PROCEDURE UCL-43 (308L-1A).

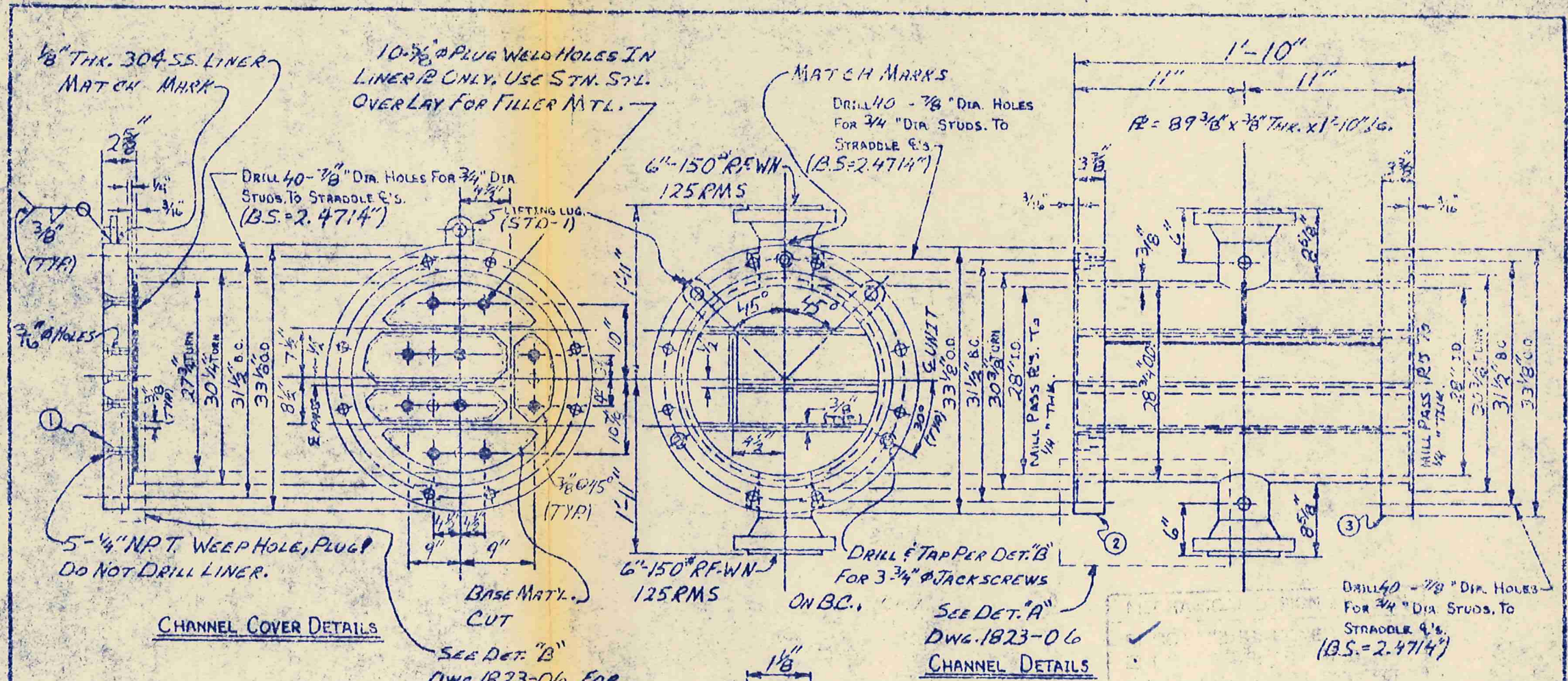
Equip. No. 21-08-026

JOB # 1607
ITEM # E-1404

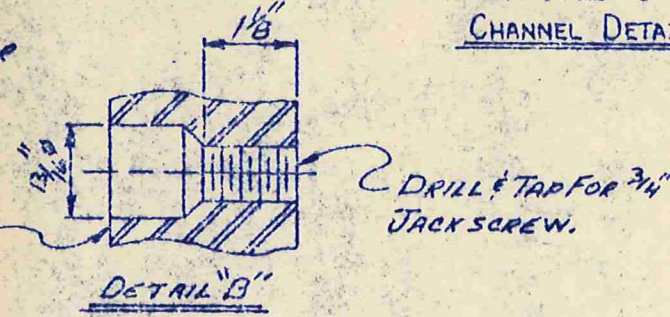
STATIONARY TUBE SHEET

NOTE:
DRILL & REAM TUBE HOLES TO .758" ± .002" FOR 600 - 3/4" O.D. TUBES ON 1 1/2" Δ PITCH & 27 1/2" TUBE CIRCLE. GROOVE TUBE HOLES PER DETAIL "A".

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA			
DRAWING TITLE <u>TUBE SHEET DETAILS</u>			
WORK ORDER 1823	NUMBER REQ'D. <u>ONE</u>		
DR. STEVE	DATE 2-18-76	SIZE 28" x 20"	DRAWING NUMBER
CK. ALY	SCALE NONE	TYPE R/M	1823-08



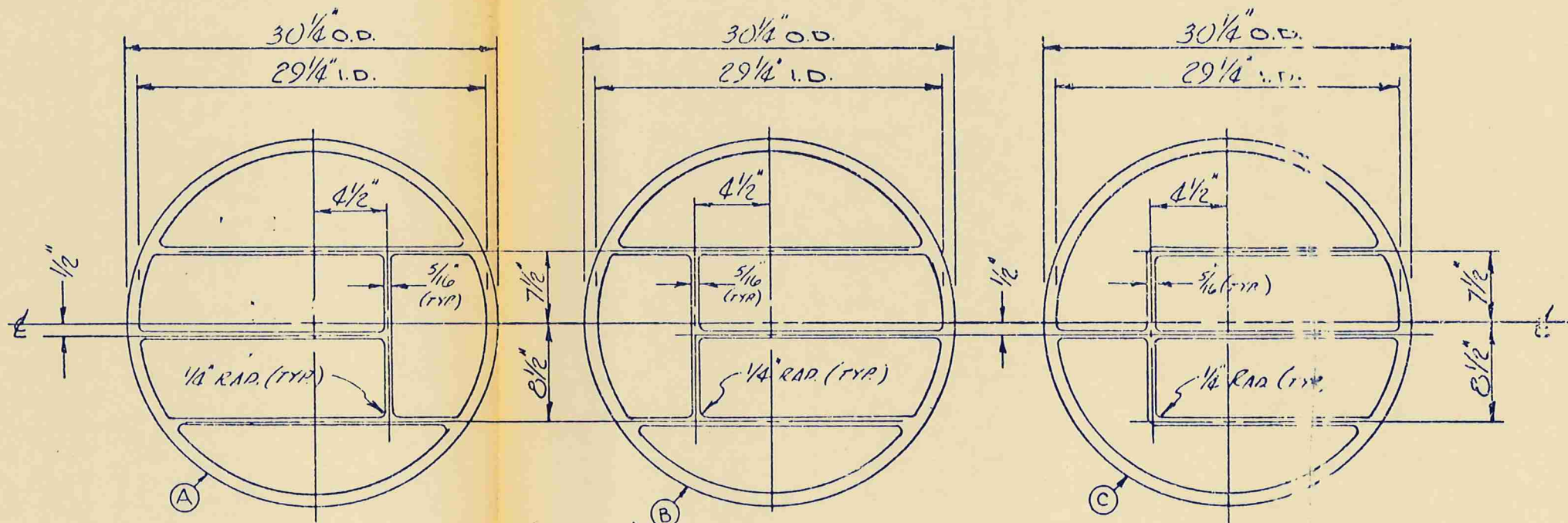
- NOTES
- 1) ALL BOLT HOLES TO STRADDLE G'S.
 - 2) SPOT X-RAY CHANNEL.
 - 3) SEE DWG. STD.-1 FOR WELD DETAILS.
 - 4) WELDING TO BE IN ACCORDANCE W/ PROCEDURES MR-304 AND SA-304 AND SA-1-B.
 - 5) EACH NOZ. EQUIPPED W/ 2-3/4"-6000# CAPS (PLUGGED).
 - 6) ALL OVERLAY TO BE 308 L 1ST PASS 309L REMAINDER IN ACC. W/ PROCEDURES UCL-43(308-L-1-M) AND UCL-43(308-L-1-A).
 7. ALL OVERLAY TO HAVE CHEM. ANALYSIS.



Equip. No. **21-08-026**
 3-24-76 *UA*
 JOB# 1607
 ITEM# E-1404

FINAL DESIGN

HUGHES-ANDERSON ENGINEERING CORP. TULSA, OK: ANOMA			
DRAWING TITLE CHANNEL DETAILS			
WORK ORDER 1823		NUMBER REQ ONE	
DR. STEVE	DATE 2-19-76	SIZE 28"x20"	DRAWING NUMBER
CR. MM	SCALE NONE	TYPE AFM	1823-02



CHANNEL COVER GASKET

1/8" THK. 304 STN. STL.
 JACKETED ASBESTOS
 FILLED. ONE REQ'D.
 (J.M. 923 OR EQUAL)

CHANNEL GASKET

1/8" THK. 304 STN. STL.
 JACKETED ASBESTOS
 FILLED. ONE REQ'D.
 (J.M. 923 OR EQUAL)

BACK CHANNEL GASKET

1/8" THK. 304 STN. STL.
 JACKETED ASBESTOS
 FILLED. ONE REQ'D.
 (J.M. 923 OR EQUAL)

REQUIRED AS SHOWN FOR ONE SET

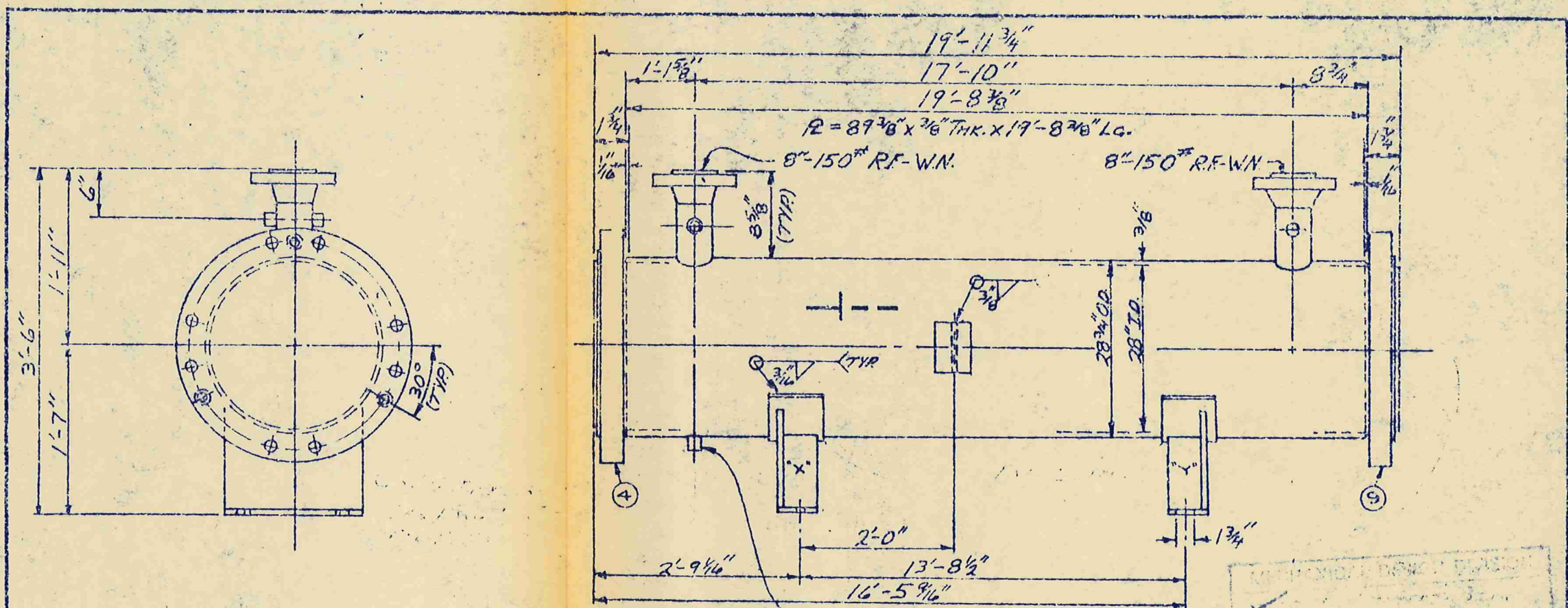
X

9/4/76

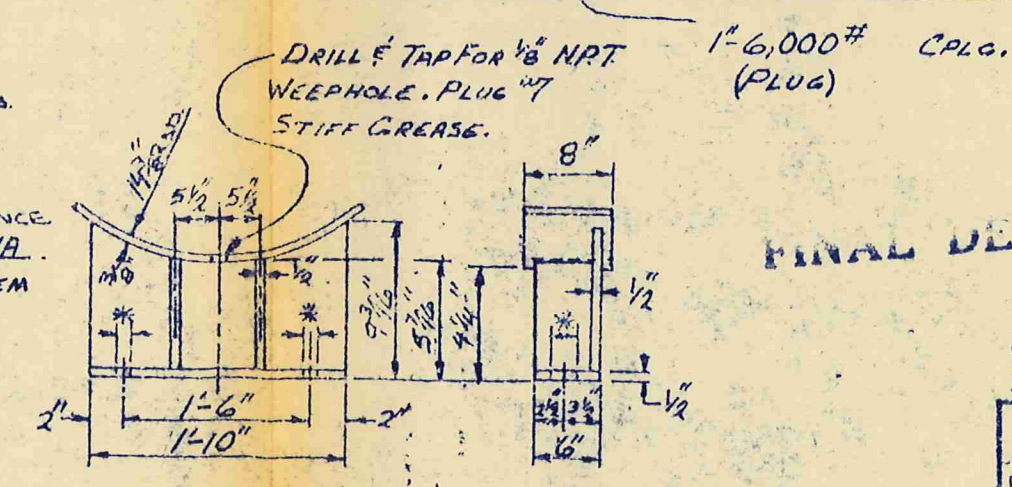
W

HUGHES ANDERSON ENGINEERING CORP.			
TULSA, OKLAHOMA			
DRAWING TITLE	SKET [] TAILS	NUMBER REQ'D. Two SETS	
WORK ORDER	3	DRAWING NUMBER	
DR. KEN	10/15/75	SCALE	"30"
CK JIM	E NONE	TYPE	EM
		1823-11	

Q REV. PASS RISS 11/14/75 KEN (2) ADD J.M. NUMBER / CUST. 3/29/76 KEN



- NOTES:**
1. SEE DWG. STD.-1 FOR WELD DETAILS.
 2. GRIND ALL WELDS FLUSH W/ I.D.
 3. SPOT X-RAY SHELL.
 4. ALL BOLT HOLES TO STR. & IS.
 5. ALL WELDING TO BE IN ACCORDANCE W/ PROCEDURES MR-1A & SA-1A.
 6. PAINT P.O. No. 1607-009 & ITEM NO. E-1404 ON SIDE & ONE END OF UNIT.



SUPPORT DETAILS

* 1-REQ'D W/ 2-7/8" Ø HOLES MK'D. (X).
 * 1-REQ'D W/ 2-7/8" x 1/4" SLOTS MK'D. (Y).

FINAL DESIGN

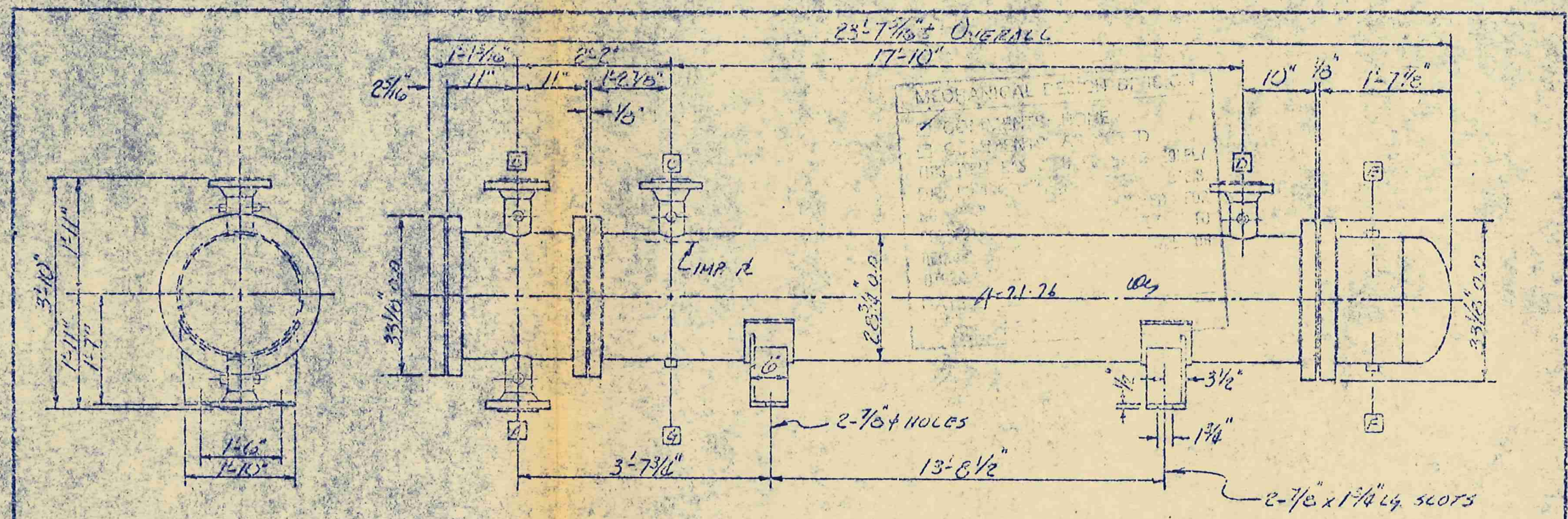
3-24-76 105

JOB # 1607
 ITEM # E-1404

HUGHES-ANDERSON ENGINEERING CORP. TULSA OKLAHOMA			
DRAWING TITLE SHELL DETAILS			
WORK ORDER 1823	NUMBER REQ'D ONE		
DR STEVE	DATE 2-19-76	SIZE 28" x 20"	DRAWING NUMBER
CK [Signature]	SCALE NONE	TYPE RFM	1823-03

FOREIGN PRINT FILE
 HOUSTON CHEMICAL COMPANY
 DIVISION OF
 PPG INDUSTRIES, INC.
 BEAUMONT, TEXAS 77704

JOB. NO. _____ DATE 8-17-76 P.O. 1607-009
 DEPT. GLYCOL EQPT. NO. 21-08-026
 VENDOR HUGHES ANDERSON
 MFR. _____
 EQPT. USED FOR REABSORBER WATER COOLER



CLIENT EQUIP. NO. 21-08-026
 FOR HOUSTON CHEMICAL CO.
 BEAUMONT, TEXAS

DESIGN DATA		NOZZLE DATA				GENERAL NOTES		CERTIFIED CORRECT FOR FABRICATION	
	SHELL	TUBES	MARK	SIZE	RATING	FACING	SERVICE	BY: [Signature]	DATE: 10/21/75
DESIGN PRESS (PSI)	80 PSI	75 PSI	A	6"	150'	RF	INLET	CUST.: SCIENTIFIC DESIGN CO.	
TEST PRESS.	120 PSI	115 PSI	B	6"	150'	RF	OUTLET	DEST.: BEAUMONT, TEXAS	
			C	6"	150'	RF	INLET	CUST. P.O.: 1607-009	
DESIGN TEMPERATURE	170° F	190° F	D	6"	150'	RF	OUTLET	ITEM: E-1009	
CORROSION ALLOWANCE	3/8"		E	3/4"	6000'	CPLG.	VENT	SERVICE: REABSORBER WATER COOLER	
NUMBER OF PASSES	1	B	F	3/4"	6000'	CPLG.	DRINK	SERIAL: 1823	
TUBE SURFACE AREA	2315	SQ. FT.	G	1"	6000'	CPLG.	WATER	FILE: 291-75	
TUBES: 600 #14 1/2" O.D. X 14' L. (14' 3/4" L.)	149-304							HUGHES-ANDERSON ENGINEERING CORP. TULSA, OKLAHOMA	
ESTIMATED WEIGHT EACH									
DRY	WBT								
13,000 LBS	13,200 LBS								
		EACH NOZZLE EQUIPPED WITH 2-7/8" x 6000' CPLG'S. (PLUGGED).							
		#125 RMS FINISH ON ALL FACE							
		1. DESIGN & CONSTRUCTION SHALL BE IN ACCORDANCE WITH: (A) SECTION VIII 1974 EDITION OF THE ASME CODE DIV. 1 & SO STAMPED BY (R) TEMA "B" (C) CUST. SPEC'S 2. ALL BOLT HOLES TO STRADDLE LB. 3. SPOT X-RAY EXAMINERS & SHELL 4. ONE SPARE SET OF GASKETS REQ'D 5. UNLAPED CONTENT SHALL NOT EXCEED 25 TPA FOR TEST WATER ON SPARE PARTS 6. Near white blast/SSPC-SP10 on shell and all carbon steel parts and apply one coat of inorganic zinc rich primer (PPG #UC-46745 and A6) 3 mils min. D.F.T. 1st coat to be high solids epoxy (PPG #UC-42208) light gray 5 mils min. D.F.T. Top coat to be Aquonon (PPG #UC-42207) white 2 mils min. D.F.T.							
		DRAWING TITLE: <u>OUTLINE DIMENSIONAL</u> WORK ORDER: <u>1823</u> NUMBER REQ'D: <u>ONE</u> DR. <u>KWH</u> DATE: <u>10/15/75</u> SIZE: <u>20" x 20"</u> DRAWING NUMBER: CA. <u>Jim</u> SCALE: <u>1/8" = 1'</u> TYPE: <u>APM</u> <u>1823-01</u>							

Rev. 1 Cust. Drawg. 11/18/75 Ken
 Rev. 2 Cust. Drawg. 12/18/75 Ken
 Rev. 3 Cust. Drawg. 12/18/75 Ken
 Rev. 4 Cust. Drawg. 12/18/75 Ken
 Rev. 5 Cust. Drawg. 12/18/75 Ken
 Rev. 6 Cust. Drawg. 12/18/75 Ken
 Rev. 7 Cust. Drawg. 12/18/75 Ken
 Rev. 8 Cust. Drawg. 12/18/75 Ken
 Rev. 9 Cust. Drawg. 12/18/75 Ken
 Rev. 10 Cust. Drawg. 12/18/75 Ken
 Rev. 11 Cust. Drawg. 12/18/75 Ken
 Rev. 12 Cust. Drawg. 12/18/75 Ken
 Rev. 13 Cust. Drawg. 12/18/75 Ken
 Rev. 14 Cust. Drawg. 12/18/75 Ken
 Rev. 15 Cust. Drawg. 12/18/75 Ken
 Rev. 16 Cust. Drawg. 12/18/75 Ken
 Rev. 17 Cust. Drawg. 12/18/75 Ken
 Rev. 18 Cust. Drawg. 12/18/75 Ken
 Rev. 19 Cust. Drawg. 12/18/75 Ken
 Rev. 20 Cust. Drawg. 12/18/75 Ken
 Rev. 21 Cust. Drawg. 12/18/75 Ken
 Rev. 22 Cust. Drawg. 12/18/75 Ken
 Rev. 23 Cust. Drawg. 12/18/75 Ken
 Rev. 24 Cust. Drawg. 12/18/75 Ken
 Rev. 25 Cust. Drawg. 12/18/75 Ken
 Rev. 26 Cust. Drawg. 12/18/75 Ken
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 Rev. 36 Cust. Drawg. 12/18/75 Ken
 Rev. 37 Cust. Drawg. 12/18/75 Ken
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FINAL DESIGN 08