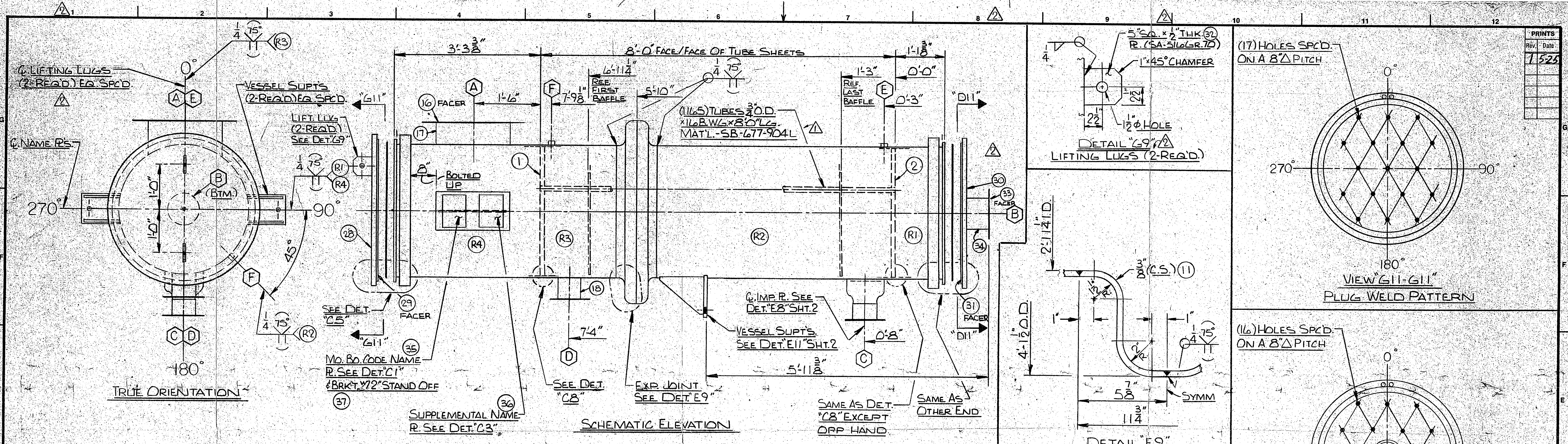




FOR TUBE BUNDLE DETAILS SEE SHT. 2

NATIONAL BOARD NO. 5182

MISSOURI BOILER AND TANK COMPANY
DIVISION OF NOTER CORPORATION
ST. LOUIS, MISSOURI

TUBE SIDE - SHELL SIDE

MAXIMUM ALLOWABLE WORKING PRESSURE

RT-3

DETAIL "C1"
MO. BO. CODE NAME R.

MISSOURI BOILER AND TANK COMPANY
DIVISION OF NOTER CORPORATION
ST. LOUIS, MISSOURI

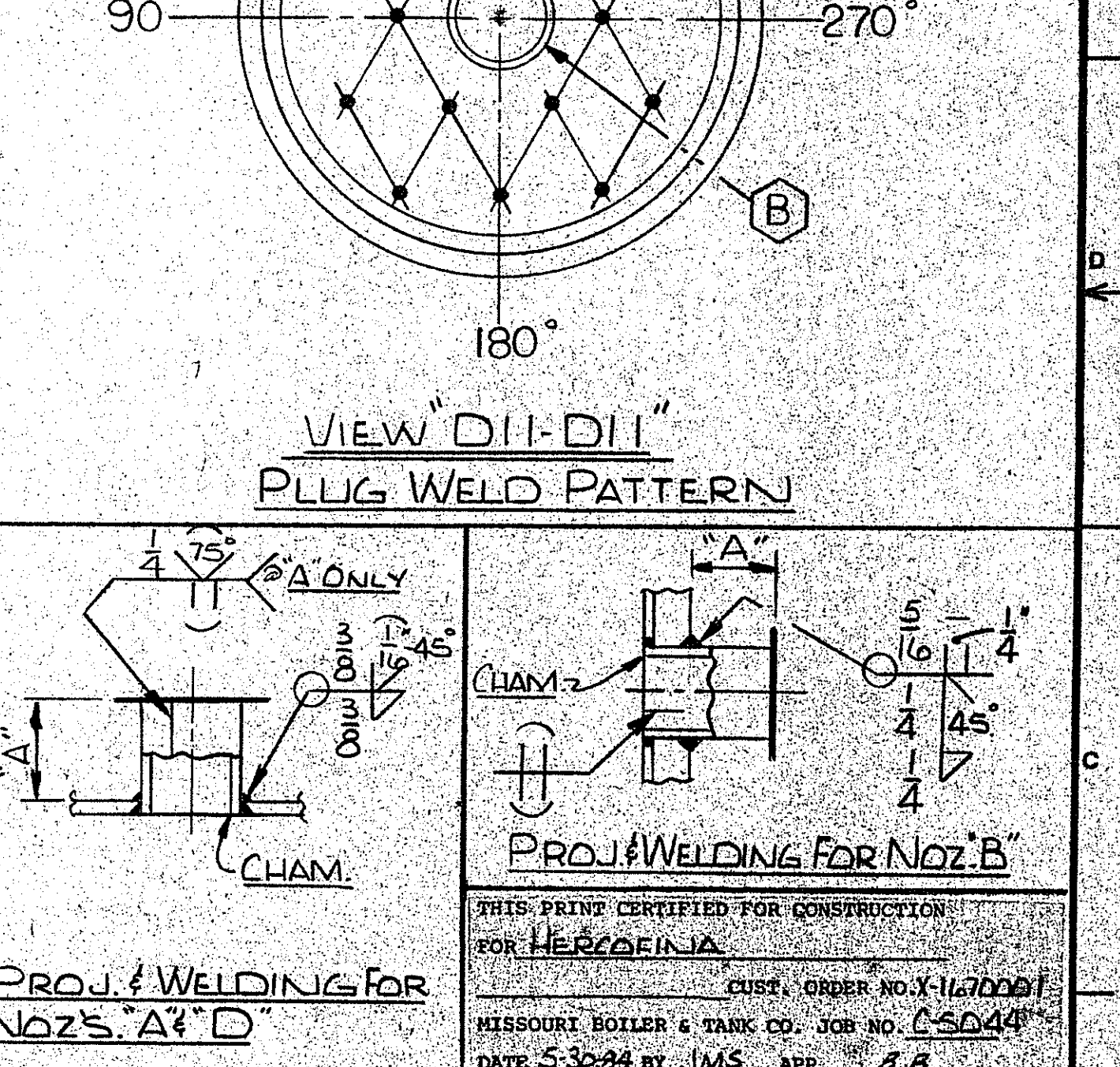
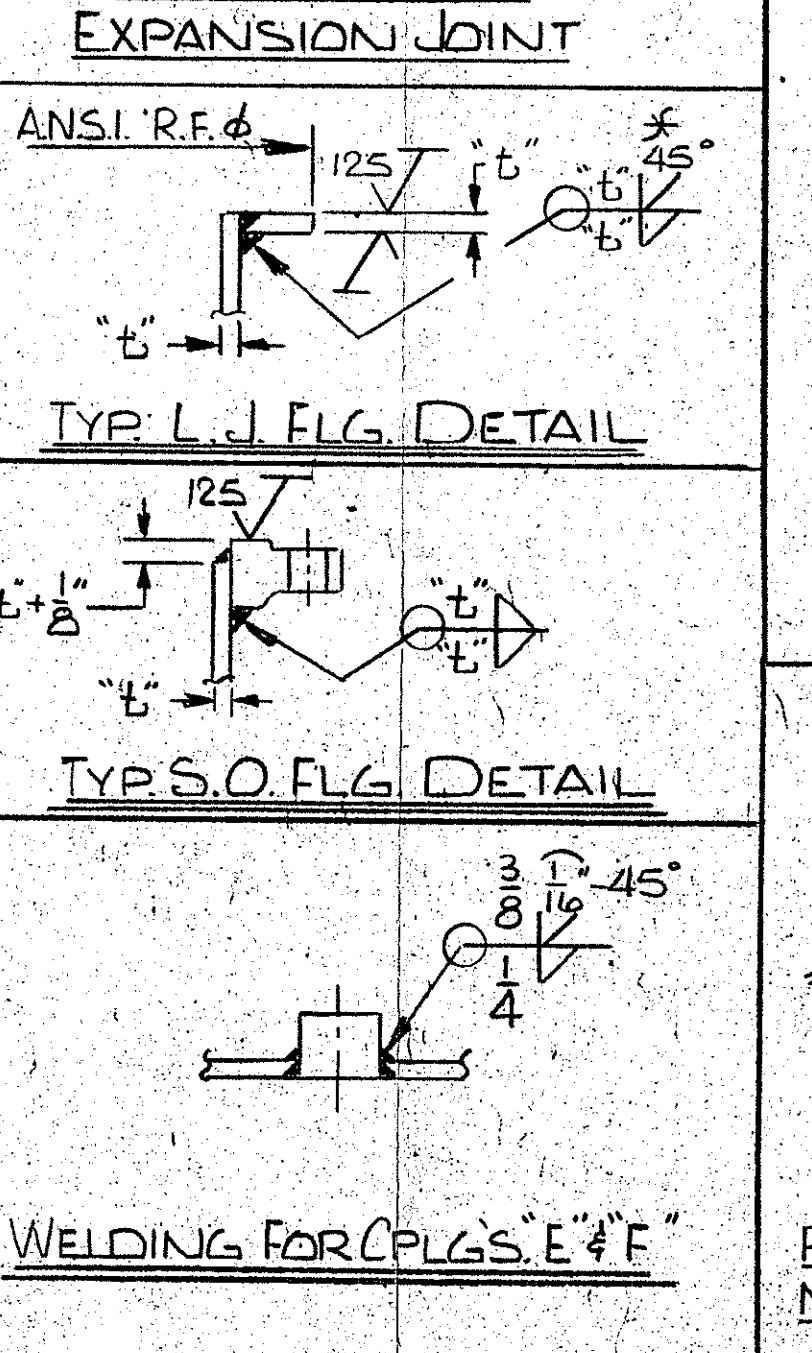
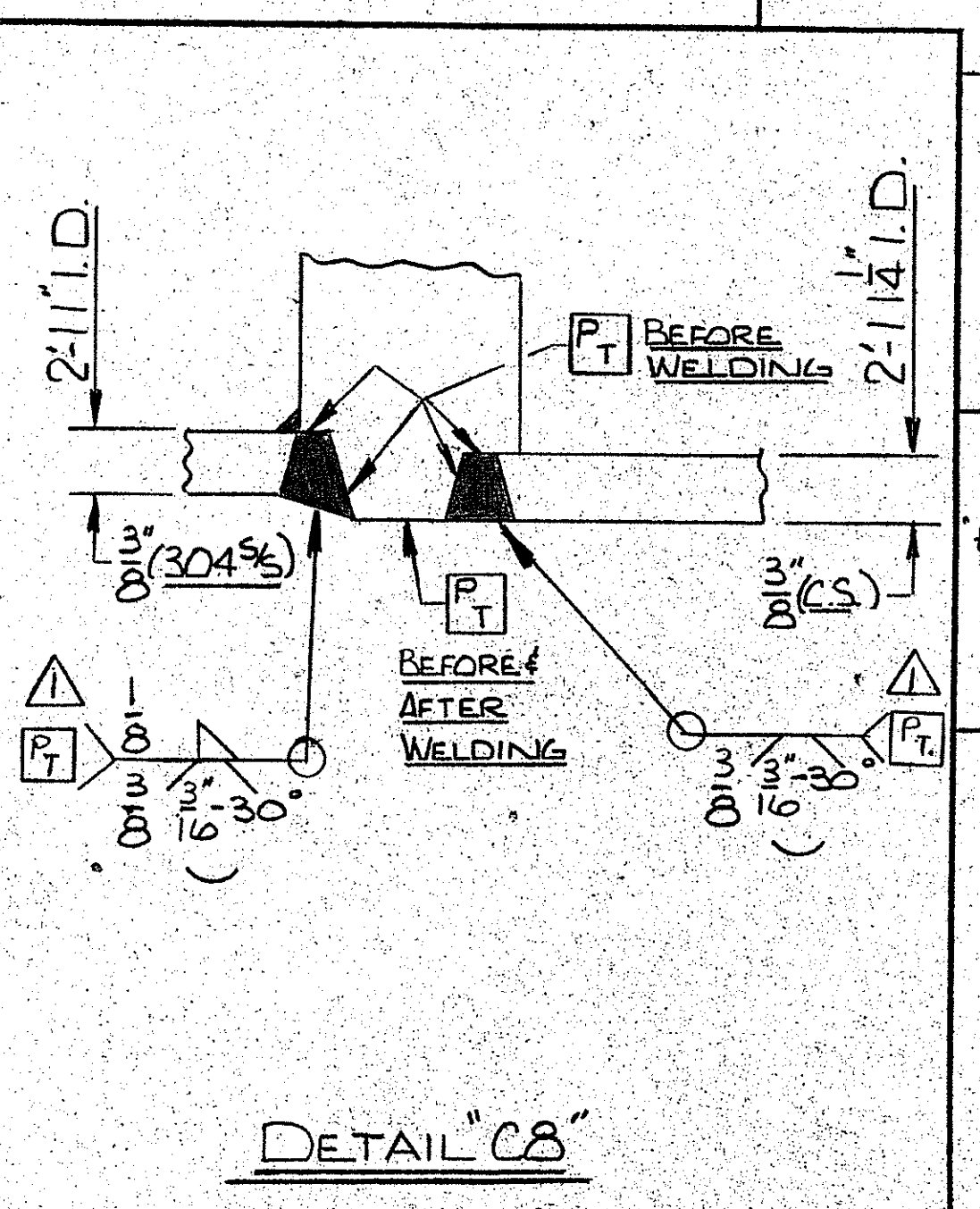
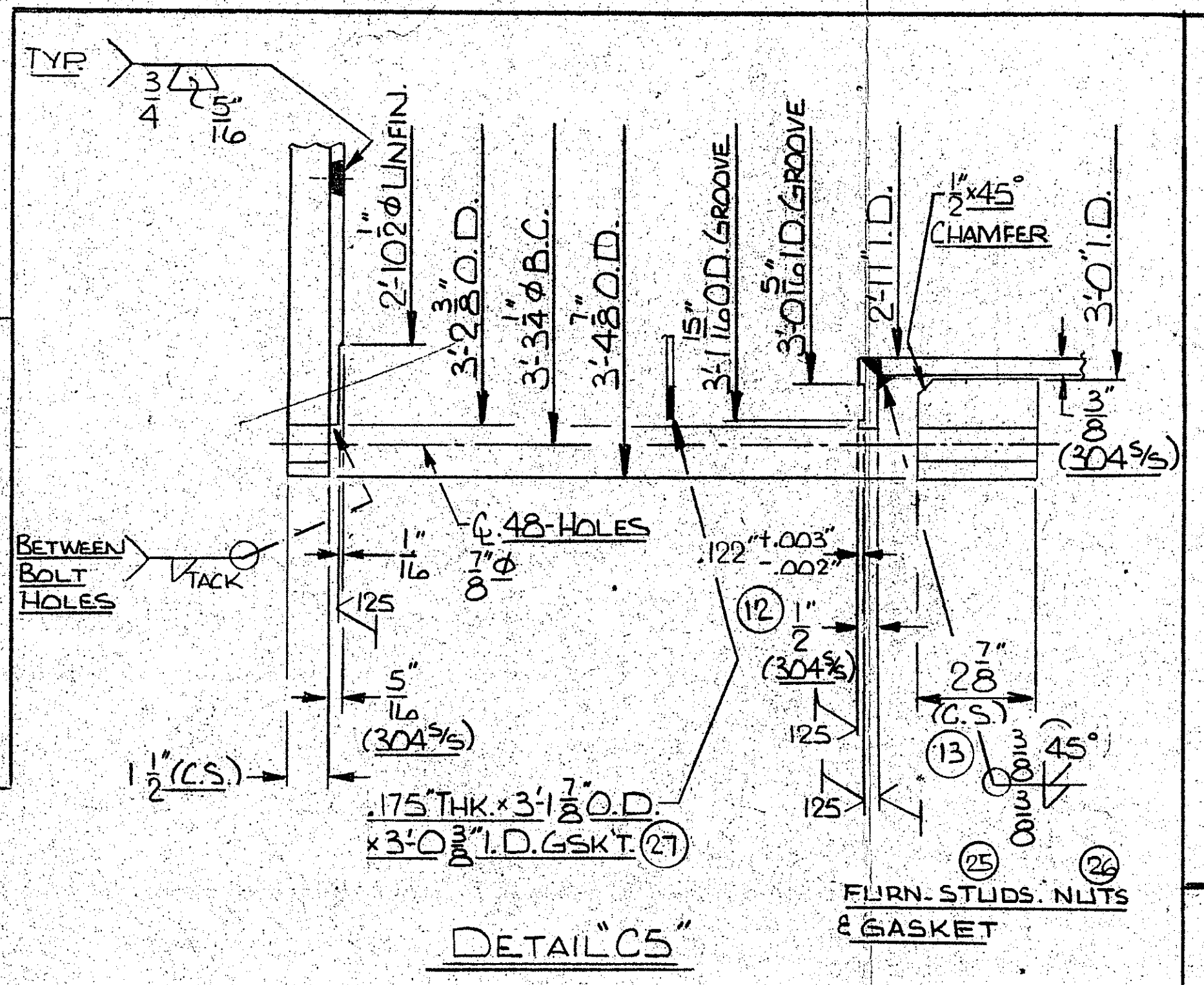
FIXED TUBESHEET SUPPLEMENTAL NAMEPLATE

CAUTION

THE PRESSURES AND TEMPERATURES SHOWN ON THE STANDARD NAMEPLATE RELATE ONLY TO THE PRESSURE RETENTION CAPABILITY OF THIS HEAT EXCHANGER. COMPONENTS OF THIS HEAT EXCHANGER HAVE BEEN DESIGNED FOR SPECIFIC SERVICE OR OPERATION FROM THE MANUFACTURING DATE. A CHANGE IN OPERATING CONDITIONS REQUIRES THAT A MECHANICAL DESIGN CHECK BE MADE IN ORDER TO AVOID POSSIBLE DAMAGE TO THE HEAT EXCHANGER.

SERIAL NO. 05044 YEAR BUILT 1984

DETAIL "C3"
SUPPLEMENTAL NAME R.



- GENERAL NOTES**
- FINISH INSIDE: REMOVE ALL DIRT, GREASE, SLUG AND EXCESSIVE WELD SPATTER.
 - FINISH OUTSIDE: (STAINLESS STEEL) REMOVE GREASE AND OIL PER SPEC. 316 (SOLVENT CLEANING) USING A CHLORINE FREE SOLVENT. REMOVE SLUG AND EXCESSIVE WELD SPATTER PER SPEC. 316 (HAND BOUL CHIPPING) USING TOOLS NOT PREVIOUSLY USED ON STAINLESS STEEL SURFACES. INSPECT SURFACES FOR DEFECTS (WELD INSPECTION). APPLY TWO COATS OF DAWNEY THERMALOX 262 BAKER TO A MINIMUM D.F.T. OF 1.15 MILS TOTAL PER SPEC. 316. CASING: (STAINLESS STEEL) REMOVE GREASE AND OIL PER SPEC. 316. APPLY TWO COATS OF DAWNEY THERMALOX 262 BAKER TO A MINIMUM D.F.T. OF 1.15 MILS TOTAL PER SPEC. 316.
 - BOLD HYDROSTATIC TEST FOR TWO HOURS.
 - TURNISH TWO SETS OF GASKETS. ONE SET TO BE USED FOR HYDROSTATIC TEST AND REMAIN IN PLACE. THE OTHER SET TO BE SHIPPED LOOSE.
 - EXTERNAL STUDS AND NUTS SHALL HAVE AN ELECTRO DEPOSIT ZINC COATING. TYPE 85.
 - ONLY ALL THREADS OF BOLTING BEING IN THIS CASE ARE SHOWN LUBRICANT.
 - ALL EXTERNAL FLANGE FACE TO BE PROTECTED WITH WOODEN COVERS BOLTS IN PLACE FOR ALIGNMENT.
 - WEIGHTS: 150 LBS. (150 LBS. MINIMUM)
 - WEIGHT: 150 LBS. (150 LBS. MINIMUM)

VENT	F	I	3/4"	3000"	SCR.D.	HALF	CPL'G.	W.F.S.	PLUG (2)		
DRAIN	F	I	3/4"	3000"	SCR.D.	HALF	CPL'G.	W.F.S.	PLUG (2)		
OUTLET	D	I	1"	150"	R.F.	S.D.	SA-105	X-HVY.	SA-105GR.B		
INLET	C	I	1"	150"	R.F.	S.D.	SA-105	SC.H.40	SA-105GR.B		
OUTLET	B	I	1"	150"	R.F.	S.D.	SA-105	SC.H.40	SA-105GR.B		
INLET	A	I	1"	150"	R.F.	S.D.	SA-105	SC.H.40	SA-105GR.B		

AIR TEST				HERCULES STD. 505-3E1			
HEADS	SA-516 GR. 70			CODE	1983	A.S.M.E. SECT. VIII DIV. 1 (1983) ADD. 1 & 2	
SHELL	SA-516 GR. 70	SA-240 GR. 304%5		MAWP INTERNAL	PSIG	175	
BODY FLANGES	SA-181 CL. 70			MAWP EXTERNAL	PSIG	345	
BOLTS OR STUDS	INT. SA-193 GR. B7			SHELL LONG. JT. EFF.		85%	FULL VAC. 350"
NUTS	EXT. C.S.			HEAD JT. EFF.		85%	
GASKETS	SA-285 GR. C			SHELL LONG. SMS	SPOT PER CODE		
BAFFLES	SA-285 GR. C			HEAD SMS	SPOT PER CODE		
EXP. JOINT	SA-285 GR. C			HEAD/SHELL SMS	SPOT PER CODE		
TUBES	SEE ELEV.			CORR. ALLOWANCE	1/16" (C.S.)		NONE
TUBE SHEET	SB-125-904L 3/8"			HYDRO. TEST	285 PSIG (See Note #3)		50 PSIG (See Note #3)
TIE RODS & SPACERS	C.S.			TEST BASED ON	PER CUST.		PER CUST.
COUPLINGS	F.S.			LIMITED BY:	PER CUST.		PER CUST.
COVERS	SA-285 GR. C			OTHER TESTS:	SEE DET. E11 SHT. 2		PHAS SHOWN
VESSEL SUPT'S	SA-285 GR. C			HEAT TREATMENT	NONE		NONE
IMP. R.	SA-285 GR. C			RECD. DOCUMENTS	U-I FORMS		U-I FORMS
MATERIAL	SHELL SIDE	TUBE SIDE		DESIGN	SHELL SIDE	TUBE SIDE	

MISSOURI BOILER AND TANK CO.
DIVISION OF NOTER CORPORATION
P.O. BOX 14704, ST. LOUIS, MISSOURI 63178

CONDENSER - FOR
HERCULES E 4400-11R
WILMINGTON, N.C. PAN#X-1170001

DATE: 3-22-84 JOB NO. C-5044 ONE REQD.
DRAWN BY: J. SULLIVAN APP. J.F. SHEET NO. 1 OF 2
CHKD. BY: J.F. MD-C-5044