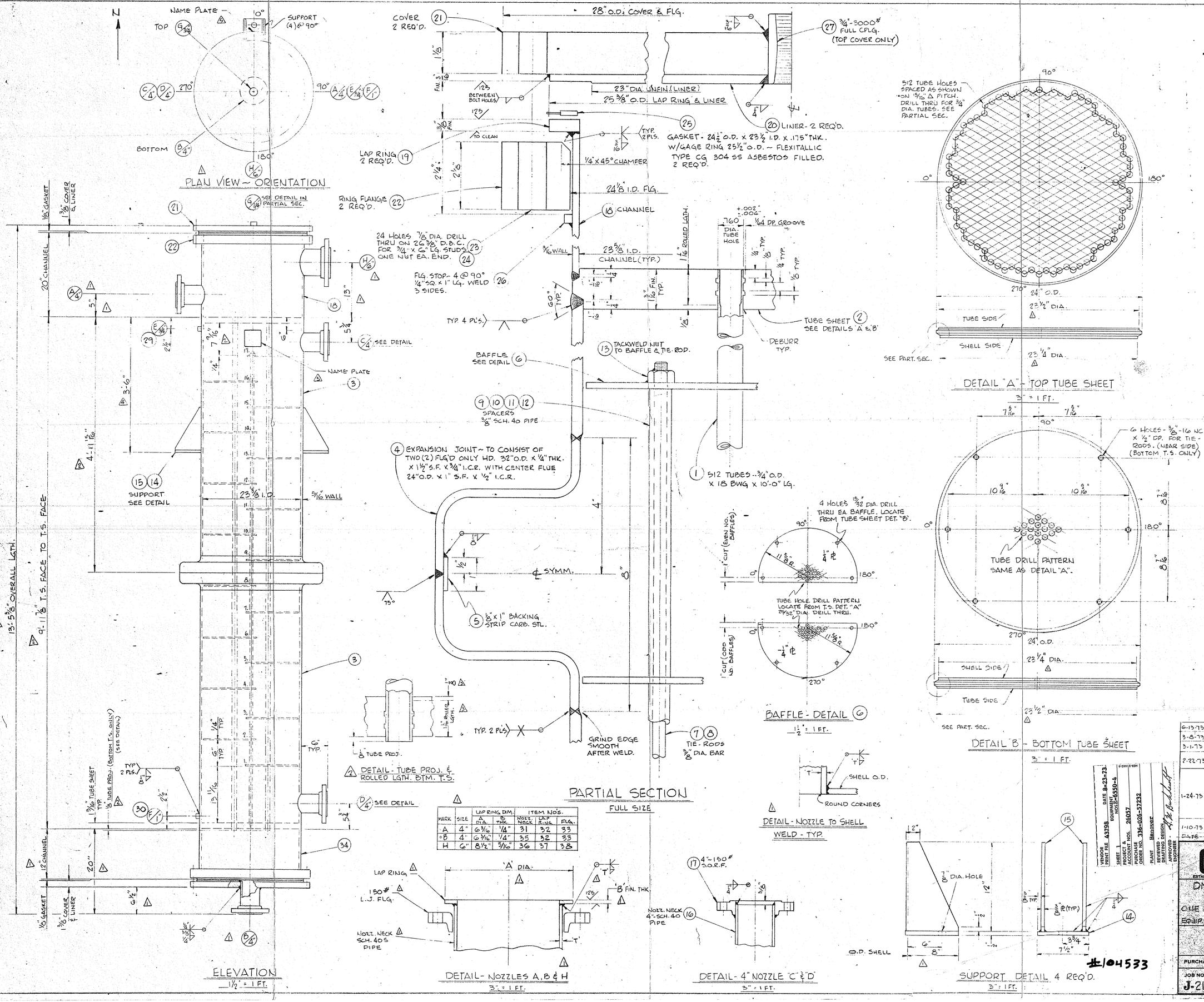

DESIGN DATA	SHELL SIDE	TUBE SIDE
DESIGN AND FABRICATION	ASME CODE SECT. VIII DIV. 1	ASME CODE SECT. VIII DIV. 1
DESIGN PRESSURE	175 PSIG	75 PSIG
DESIGN TEMPERATURE	375°F	375°F
CORROSION ALLOWANCE	1/16"	NONE
WELDING	UW-47	UW-47
FLANGE FACE FINISH	STOCK INDIVIDUAL SPIRAL SERRATED	125 RMS
RADIOGRAPHIC EXAMINATION	SPOT	SPOT
HEAT TREATMENT	—	—
TEST PROCEDURE	UG 99	UG 99
FINAL TEST PRESSURE	262.5 PSIG	112.5 PSIG
MATERIAL:		
SHELL	SA 285-GR.C	SA 240-304
CHANNEL COVERS	—	SA 515-GR.70
SUPPORTS	SA 285-GR.C	—
NOZZLE NECKS	SA 53-GR.B	SA 240-304
MANHOLE NECK	—	—
COVER LINER & LAP RING	—	SA 240-304
NOZZLE FLANGES	SA 181-GR II	SA 181-GR II
SHELL AND HEAD FLANGES	—	SA 515-GR.70
BOLTS	SA 193-B7	SA 193-B7
NUTS	SA 194-2H	SA 194-2H
GASKETS FLEXITALLIC	—	SEE PART. SEC. AND NOTE 1
TUBE SHEET	SA 240-304	SA 240-304
TUBES	—	SA 249 TP304
BAFFLES	CARB. STL.	—
SPACERS & TIE-RODS	CARB. STL.	—
EXPANSION JOINT	SA 285-GR.C	—
COUPLINGS	SA 105-GR.1	304 SS

TEST PRESSURE BASED ON 1½ x DESIGN PRESSURE x STRESS RATIO

WEIGHT EMPTY 4700 LBS

WEIGHT FULL OF WATER 7500 LBS.

OPERATING WEIGHT

PAINTING EXTERIOR C/S ONLY-ONE SHOP COAT/11CS-66G1

INSPECTION OAT - HERCULES - UNDERWRITER

STAMPING ASME CODE STAMP

ALL MANHOLE AND NOZZLE OPENINGS SHALL MEET THE REQUIREMENTS FOR REINFORCEMENT OF OPENINGS PER THE ASME CODE FOR UNFIRED PRESSURE VESSELS.

MANHOLES AND NOZZLES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

MANHOLES _____ NOZZLES SEE NOTE 3 SCH.

UNLESS OTHERWISE NOTED:
ALL BOTTOM NOZZLES SHALL BE FLUSH WITH INSIDE OF VESSEL, OTHER NOZZLES SHALL BE FLUSH

BOLT HOLES SHALL STRADDLE THE NORMAL VESSEL CENTER LINES.

NOZZLE SCHEDULE

	MARK	SIZE	SCH.	FLANGE	PURPOSE	REMARKS
Δ	A	4"	40S	150# LAP JOINT	VAPOR INLET	—
Δ	B	4"	40S	150# LAP JOINT	LIQUID OUTLET	—
Δ	C	4"	40	150# R.F.S.O.	BRINE OUTLET	—
Δ	D	4"	40	150# R.F.S.O.	BRINE INLET	—
	E	¾"	3000#	HALF COUPLING	VENT	NPT W/PLUG
	F	1"	3000#	HALF COUPLING	DRAIN	NPT W/PLUG
	G	¾"	3000#	FULL COUPLING	VENT	NPT W/PLUG
Δ	H	6"	40S	150# LAP JOINT	SPRAY	—

MARK	SIZE	LAP RING DIM. A DIA.	LAP RING DIM. B THK.	ITEM NO'S. NOZZ. NECK	ITEM NO'S. LAP RING	ITEM NO'S. FLG.
A	4"	6 3/16"	1/4"	31	32	33
B	4"	6 3/16"	1/4"	35	32	33
H	6"	8½"	5/16"	36	37	38

6-13-73	Δ ADDED NAME PLATE LOCATION, ELEV. & PLAN.	RWH
3-8-73	Δ ADDED 3'-6" SUPPORT LOCATION. PER HERCULES 3/6/73	RWH
3-1-73	Δ 1 15/16" EXPANDED LGTH. WAS 15/16" BOTTOM T.S.	RWH
2-22-73	Δ ADDED ⅛" TUBE PROJ. BTM. T.S. & DETAIL. 9'-11⅛" T.S. TO T.S. FACE WAS 10'-0". 4'-11 15/16" WAS 5'-0". 13'-5⅜" OAL WAS 13'-5½" TO BAFFLE SPACE WAS 7½".	RWH
1-24-73	Δ DWG. REV. PER MARKED PRINT FROM HERC. 1-16-73. NOTE. A WAS 12'-8" WAS 8". ADDED NOTE. H. 6" TO TEP CHANNEL @ 13". NOZZ. B WAS 12" LOCATED ON SHELL SIDE. 12" WAS 20" LATH. OVL WAS 13'-7". ADDED ORIENT. PLAN VIEW TUBE SHEETS & BAFFLES. ADDED DETAIL (NOTE. 10 SHELL WEB) ADDED NOTE. H TO NOTE. DET. A-B. ADDED SIZE & TYPE NO. ON DET. A & B T.S. - 23½" D. WAS 23⅜" & 23⅛" D. WAS 23⅜". DATA BLK. CPLG. 50655 WAS 105 GR.1. NOTE. SCH. A, B, C, D. PLAN BLK. REV. NOTE. H WAS 1". SUPP. DET. 8" WAS 6" & 6" WAS 4".	RWH
1-10-73	Δ ISSUED FOR APPROVAL	RWH
DATE	Δ REVISION	BY

VENDOR PRINT FILE 43798 — DATE 8-23-73
EQUIPMENT NO. E-6550-4
SHEET 1
PROJECT & ACCOUNT NOS. 26057
PURCHASE ORDER NO. 336-096-57232
PLANT Hanover
REVIEWED
DRAFTING DESIGN
APPROVED
BY

JOSEPH OAT & SONS, INCORPORATED
CHEMICAL ENGINEERS/DESIGNERS/FABRICATORS
ESTABLISHED 1789
CAMDEN, NEW JERSEY 08104

DMT LOADING CONDENSER
24" O.D. x 13'-5⅜" O.A.L.
ONE PASS - C/S & 304 SS CONSTRUCTION
EQUIP. NO. E-6550-4 — ASSEMBLY & DETAILS
FOR
HERCULES INCORPORATED
HANOVER PLANT
WILMINGTON, N.C.

PURCHASE ORDER NO. #104533 — NO. REQ'D. ONE

JOB NO.	DRAWN	DRAWING NO.	REV.
J-2158.2	DATE: 1-10-73	5336	5
	CHECKED		

#104533