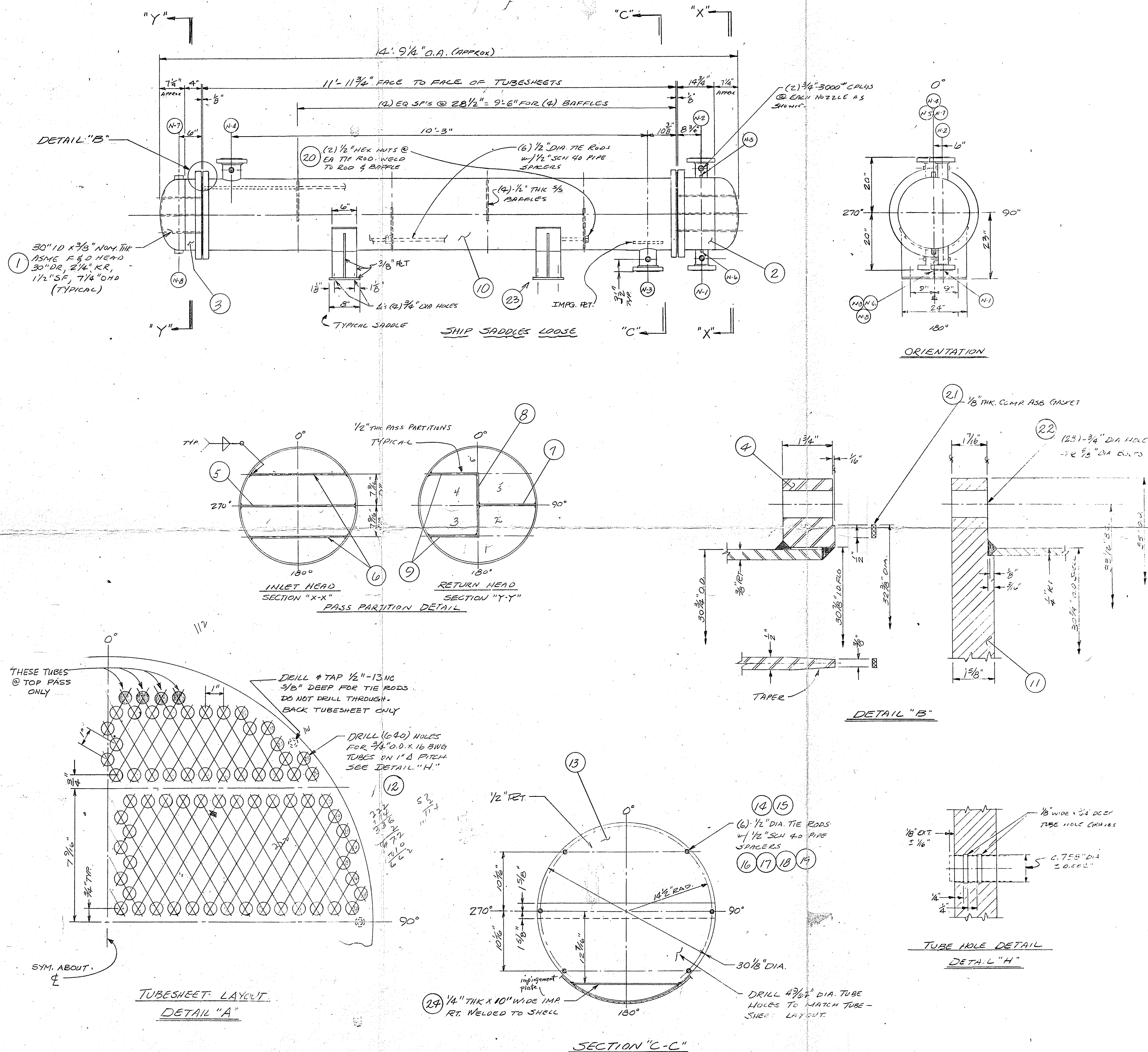




B/M MARK	MARK	NO REQ'D	SIZE	FLANGE			NECK		REMARKS
				TYPE	RATING	MATL	SCH.	MATL	
25	N-1	ONE	6"	RF/50	150"	4/5	80	4/5	TUBE SIDE INLET
25	N-2	↑	6"	RF/50	150"	4/5	80	4/5	TUBE SIDE OUTLET
26	N-3		8"	LAP JUNT	150"	4/5	3/10 RT	3/5	SEE DWG. #A-GG-157 SHELL SIDE INLET
26	N-4		8"	LAP JUNT	150"	4/5	3/16 RT	3/5	SEE DWG. #A-GG-157. SHELL SIDE OUTLET
27	N-5		1"	6000" CPLG				4/5	VENT W/ PLUG
27	N-6		1"	6000" CPLG				4/5	DRAIN W/ PLUG
27	N-7	↓	1"	6000" CPLG				4/5	VENT W/ PLUG
27	N-8	ONE	1"	6000" CPLG				4/5	DRAIN W/ PLUG
26-3		FOUR	3/4"	3000" CPLG				3/5	SHELL SIDE NOZZLE CONN W/ PLUG
25-3		FOUR	3/4"	3000" CPLG				4/5	TUBE SIDE NOZZLE CONN W/ PLUG

NOTES

- VESSEL TO BE BUILT IN ACCORDANCE WITH THE ASME CODE FOR UNFIREED PRESSURE VESSELS (SEC VIII), 1965 EDITION & SO STAMPED AND TENTH STANDARDS CLASS "C"
- DESIGN PRESSURE: SHELL SIDE - 75 PSI @ 300°F
TUBE SIDE - 75 PSI @ 200°F
- TEST PRESSURE: SHELL SIDE 137.5 PSI; TUBE SIDE 115 PSI @ (HYDRO)
- 1" CORROSION ALLOWANCE TUBE SIDE ONLY
- NO RADIUS REQUIRED; J.E. = 70%
- STRESS RELIEVE: NOT REQ'D
- BOLT HOLES OF ALL FLANGES TO STRADDLE NATURAL CENTER LINES OF VESSEL
- PAINT EXTERIOR CARBON STEEL PARTS ONE COAT RED ZINC CHROMIATE PRIMER
- UNIT SUBJECT TO CUSTOMER INSPECTION
- WEIGHT: 3600 # EMPTY (APPROX)
- ONE (1) UNIT REQ'D
- EFF. HTG. SURFACE: 1470 FT²

MATERIAL

- SHELL: A-240 TYPE 304 STAINLESS STEEL
- BONNET SHELL: A-285 GR "C" F.O. CARBON STEEL
- BONNET HEAD: A-285 GR "C" F.O. CARBON STEEL
- SHELL FLANGES: A-105 GR. II CARBON STEEL
- FLANGE LINES: NOT REQ'D
- PASS PARTITION: CARBON STEEL
- TUBESHEETS: A-240 TYPE 304 STAINLESS STEEL
- SUPPORT RODS, TIE RODS & NUTS: TYPE 304 STAINLESS STEEL
- TUBES: A-249 T4 304 STAINLESS STEEL
- BOLTS & NUTS: A-193 GR "B-7" STD BOLTS & A-194 GR "E-H" NUTS
- GASKETS: J.M. # 40 COMP ASBESTOS
- NOZZLE NECKS: A-53 GR "B" 4/5 PIPE (CHAM); A-240 T4 304 RT 95
- NOZZLE FLANGES: A-181 GR I FORGED 4/5
- SUPPORTS: A-285 GR "C" F.O. CARBON STEEL

NOTES: N-5 & N-6 NOT SHOWN IN TRUE LOCATION.

ENGINEERING DEPT.
EXCHANGER FILE
19 E 81 A

CUSTOMER ITEM # E-81A
CUSTOMER PO # 3402

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RICHMOND ENGINEERING CO., INC.			
RICHMOND		VIRGINIA	
30" I.D. DECOMPOSER COOLER FOR: CLARK OIL & REFINING CORP. PROJECT: PHENOL PLANT EXPANSION			
JOB NO.	SCALE:	NO. SHEETS —	SHEET NO. —
L-5268-40			
DRAWN BY	CHECKED	DRAWING NUMBER	
RRW	WRF	D-66-405	
TRACED BY	APPROVED		
	HNU 44 WRT		

REVISIONS

REV.	DESCRIPTION	BY	DATE
1			