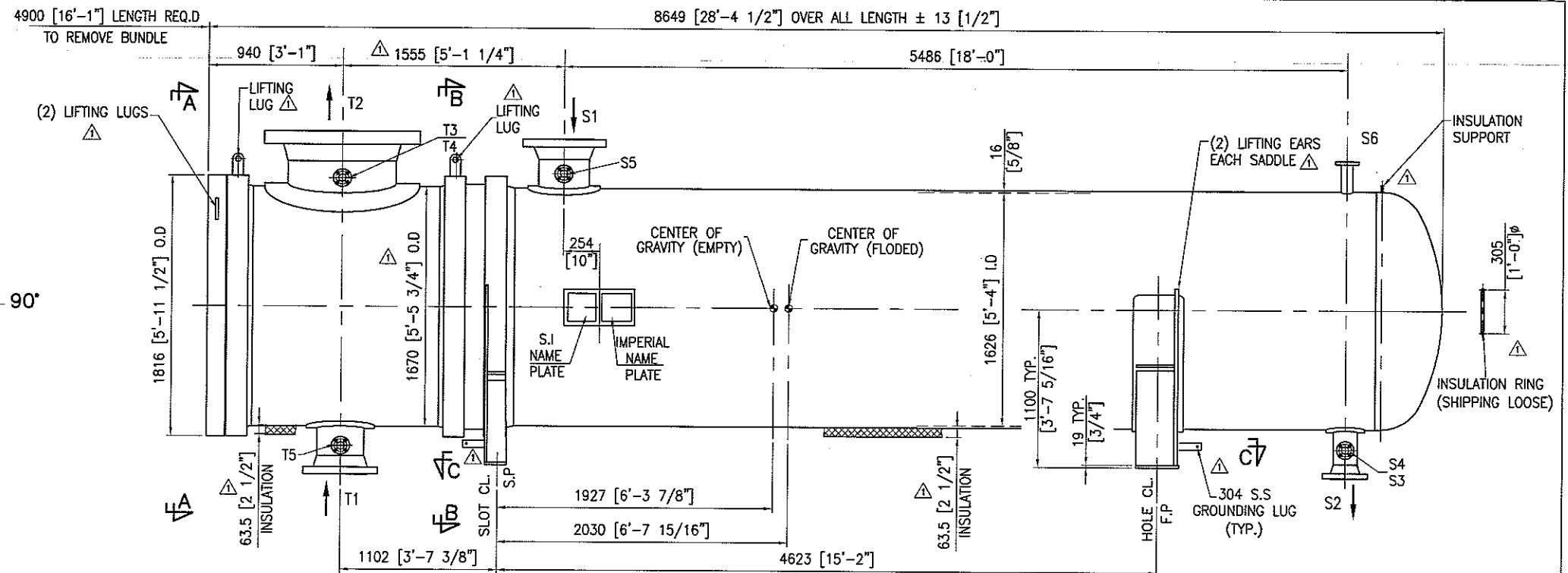




-
- 1499 [4'-11"]
- 152 [6"]
- 64 [2 1/2"]
- 675 [2'-2 9/16"]
- 675 [2'-2 9/16"]
- (2) - 38 [1 1/2"] x 76 [3"] SLOTS
FOR 32 [1 1/4"] ϕ BOLTS
- 305 [1'-0"]
- 152 [6"]
- 711 [2'-4"]
- 1321 [4'-4"]
- 1524 [5'-0"]
- (4) - 46 [1 13/16"] ϕ HOLES
FOR 38 [1 1/2"] ϕ BOLTS
- VIEW 'C-C'

DESIGN CONDITION		
	SHELL SIDE	TUBE SIDE
PROCESS FLUID	STEAM	SRU FEED
PROCESS DESIGN PRESSURE	1494 KPag (217 PSIG)/F.V	2241 KPag (326 PSIG)/F.V
DESIGN TEMPERATURE	196°C (385°F)	163°C (326°F)
MDMT	-41°C (-42°F) @1494 KPag (217 PSIG)	-41°C (-42°F) @2254 KPag (327 PSIG)
M.A.W.P. (HOT/CORR.)	1494 KPag (217 PSIG)/F.V	2254 KPag (327 PSIG)/F.V
M.A.P. (NEW/COLD)	2041 KPag (296 PSIG)	2310 KPag (335 PSIG)
HYDROTEST PRESSURE (FIELD)	1965 KPag (285 PSIG)	2965 KPag (430 PSIG)
HYDROTEST PRESSURE (SHOP)	2655 KPag (385 PSIG)	3034 KPag (440 PSIG)
CORROSION ALLOWANCE	3 mm (1/8")	3 mm (1/8")
RADIOGRAPHY	SPOT	SPOT
POST WELD HEAT TREATMENT	NO	NO
SHIPPING WEIGHT	32670 KGS (72020 LBS)	
FLOODED WEIGHT	47380 KGS (104450 LBS)	
BUNDLE WEIGHT	19960 KGS (43990 LBS)	
EFFECTIVE SURFACE AREA	765.8 SQ.M (8243 SQ.FT) /SHELL	
CODES AND STANDARDS		
CODE: ASME VIII-1, 2007 EDITION A'08		
STD: TEMA 9th EDITION (TEMA R) / API-660 8th EDITION AUGUST 2007		
SIZE: 1626-6096 (64-240)	TYPE: AFU	POSITION: HOR. PASSES: 2
REGISTRATION: PROVINCE OF ALBERTA		

		MAP (PSIG)	LIMITING COMPONENT
NEW & COLD	SHELL SIDE	2041 KPag (296 PSIG)	SHELL HEAD
	TUBE SIDE	2310 KPag (335 PSIG)	GIRTH FLANGE BOLTING
CORRODED & HOT	SHELL SIDE	1494 KPag (217 PSIG)/F.V	SHELL HEAD
	TUBE SIDE	2254 KPag (327 PSIG)/F.V	CHANNEL COVER

1	09.5.26	HUI R.	REVISED PER CUSTOMER'S COMMENTS
0	09.5.4	HUI R.	FOR REVIEW AND APPROVAL
REV	DATE	BY	REVISION DESCRIPTION

K KOCH A Koch Chemical Technology Group, LLC Company
HEAT TRANSFER CANADA LP
SARNIA TORONTO ONTARIO

FOR		TITLE	
SHELL ALBIAN SANDS		SRU FEED STEAM HEATER	
FORT McMURRAY ALBERTA			
DRAWN: HUI R.	DATE 09.5.4	SERIAL No.: T10176A/H	
CHK'D: <i>[Signature]</i>	DATE <i>29 Aug 09</i>	PO No.: 50274775 002 OP	
APPR'D: <i>[Signature]</i>	DATE <i>29 Aug 09</i>	ITEM No.: 260-SX-101/201 A/B/C/D	
SCALE: NONE		No. OF UNIT : EIGHT <u>8</u>	
KHTC DRAWING : GENERAL ARRANGEMENT		KHTC DRAWING No.: T10176-1	REV 1