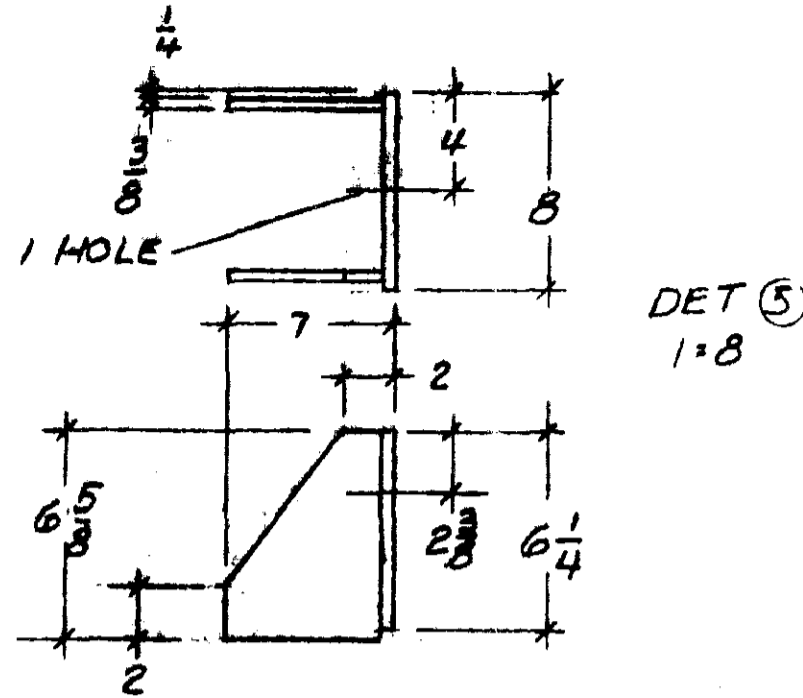
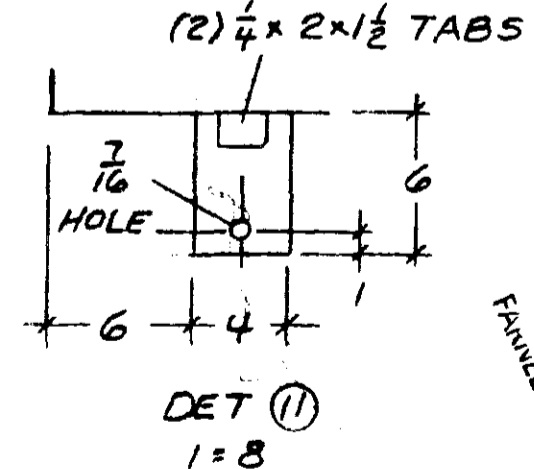
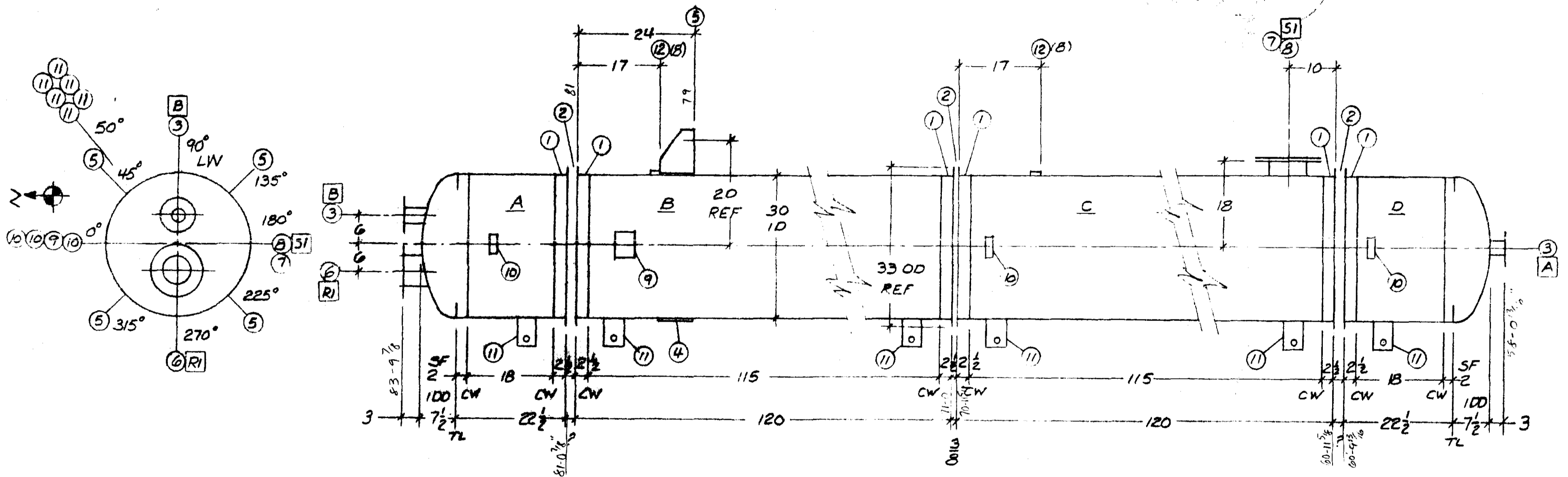


REF. NO.	NO. REQ'D	PART NO.	DESCRIPTION
1	6	C2533-30L	30 FLG
2	90	C1645-2	1 SHORT CLAMP
3	3		3 NOZ & 150 LB SPL FLG
4	1	C1404-7	BAND
5	4	DET 5	LUG
6	1		6 NOZ & 150 LB SPL FLG
7	1		8 BL FLG
8	1		8 NOZ & 150 LB SPL FLG
9	1	C1503-1	N# 4 PROJECTION
10	3	C1503-2	N# 4 PROJECTION
11	6	DET 11	GROUNDING LUG
12	16	SK70526	3/8 x 1 x 2 TAB



20
19/16
50-5
2.8
58-0 13/16



#99055

W. Kopp
19J96

RECEIVED
JAN 25 1996
FANWELL & ASSOC.

RECEIVED
JAN 23 1996
KULS AMERICA INC
ENGINEERING DEPT.

RI	6	VAPOR VENT (EMERGENCY)
SI	8	SPARE
B	3	LIQUID OUTLET
A	3	LIQUID INLET
MARK	SIZE	SERVICE

RATED CAP. GAL. 1200		SPECIFICATIONS	TANK	JACKET	MATERIAL
FIRING WT. LBS.	3200	ASME CODE DESIGN	YES		TANK, MATL SPEC SA-285-C
TOTAL WT. LBS.	3600	AUTH. INST. & STAMP	YES		JKT. MATL SPEC
GLASS SPEC.	CC 577	DESIGN PRES. PSI	125		SEALER, MATL SPEC.
GLASS HT	2000	FULL INT. VACUUM	YES		
PLUGS	NONE	DESIGN TEMP. °F	-20/450		TANK
GASKETS	CRT-NA 30	CUST. WKG PRES. PSI			JACKET
PAINT	LT BL EPOXY	CUST. WKG TEMP. °F			THK. TYPE - HD T
PRIME		HYDRO TEST, PSI	125		3/16 SE
		RADIOGRAPH	NO		THK. TYPE - HD B
					3/8 SE
					THK OF SHELL
					3/8
					THK TYPE - SEALER

THE CERAMIC COATING COMPANY

Cyanoester Plug Flow Reactor T-2823

DRAWN BWS 230695 SCALE 1"=16" REV. 2

CHECKED DGR 230695

APPROVED

CUST. ORDER 08000165

CCC ORDER 7-42013

C4776 SHEET 1 of 1

SYM	REVISIONS	DATE
12	RI WAS 3	19.11.96
11	MANY	05.11.96

FINAL DIMENSIONS MAY VARY
DUE TO HIGH TEMPERATURE PROCESSING

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by CERAMIC COATING COMPANY, 123 Banklick Road, Newport, KY 41076
(Name and address of manufacturer)

2. Manufactured for Huls America, Inc.
(Name and address of purchaser)

3. Location of installation Theodore, AL 36582
(Name and address)

4. Type Vertical Column 7-42013 N-A C24776 Rev. 2 1556 1996
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Netl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1992
Year

to 1994 N-A None
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-285-C 3/8" 0 2-6 1-6, 9-7, 9-7, 1-6
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: DBW N-A 70 APP. 27-6 APP. 27-6 DBW N-A Four
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-285-C APP. 27-6 (b) Matl. SA-285-C APP. 27-6
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	top	.366	0			2:1				Both
(b)	bottom	.349	0			2:1				Both

If removable, bolts used (describe other fastenings) SA-194-2H/SA-395/SA-193-B7 1", 90
(Matl., Spec. No., Gr., Size, No.)

9. MAWP FV/125 psi at max. temp. 450 °F
 Min. design metal temp. -20 °F at 125 psi. Hydro., pneu., or comb. test pressure 125 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
	3	3"	FLG	SA-216	150 lb.	integral	DBW	
	1	6"	FLG	SA-216	150 lb.	integral	DBW	
	1	8"	FLG	SA-216	150 lb.	integral	DBW	

11. Supports: Skirt NO Lugs 4 Legs NO Other N-A Attached Banded to Shell
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: UG-20(f)
(Name of part, item number, Mfr's name and identifying stamp)

Glass-Lined Cyanoester Plug Flow Reactor T-2823. C.O. 0800165.
Constructed in Conformance with Appendix 27, Alternative Requirements for Glass-Lined Vessels. Tested in Horizontal Position.

CERTIFICATE OF SHOP COMPLIANCE	
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. <u>16284</u> expires <u>Jan. 12, 1999</u>	
Date <u>5/16/96</u> Co. name <u>CERAMIC COATING COMPANY</u> (Manufacturer)	Signed <u>Kenneth R. Schultz</u> (Representative)
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>CERAMIC COATING COMPANY</u> at <u>Newport, KY</u>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Kentucky</u> and employed by <u>Commercial Union Insurance Co., Boston, MA</u>	
have inspected the component described in this Manufacturer's Data Report on <u>5-16</u> , 19 <u>96</u> , and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. In obtaining this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date <u>5-16-96</u> Signed <u>[Signature]</u> (Authorized Inspector)	Commissions <u>10168 BN, 875, 18260 W.C.</u> (Nat'l Board (No. of Examinations), State, Prov. and No.)