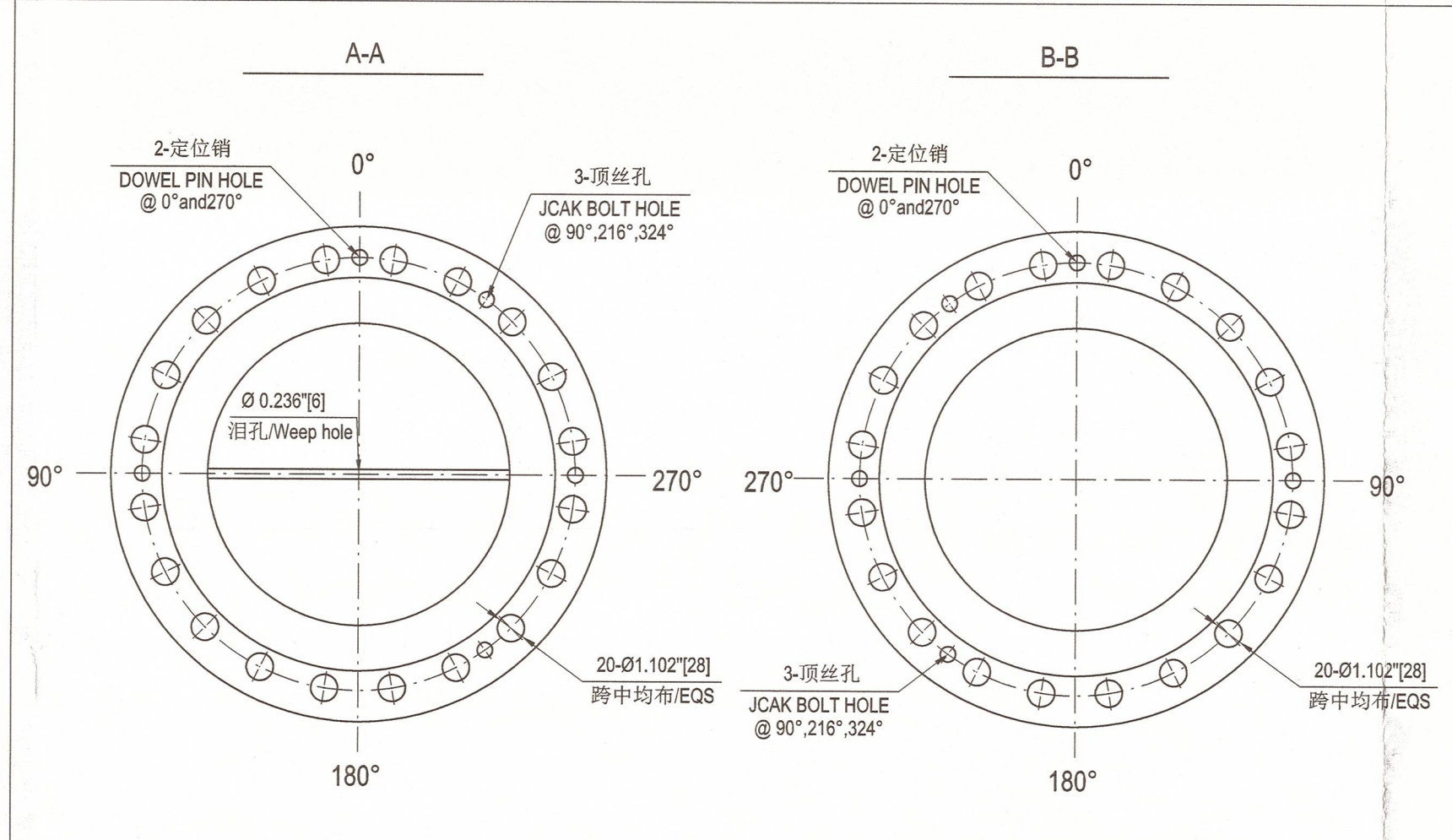
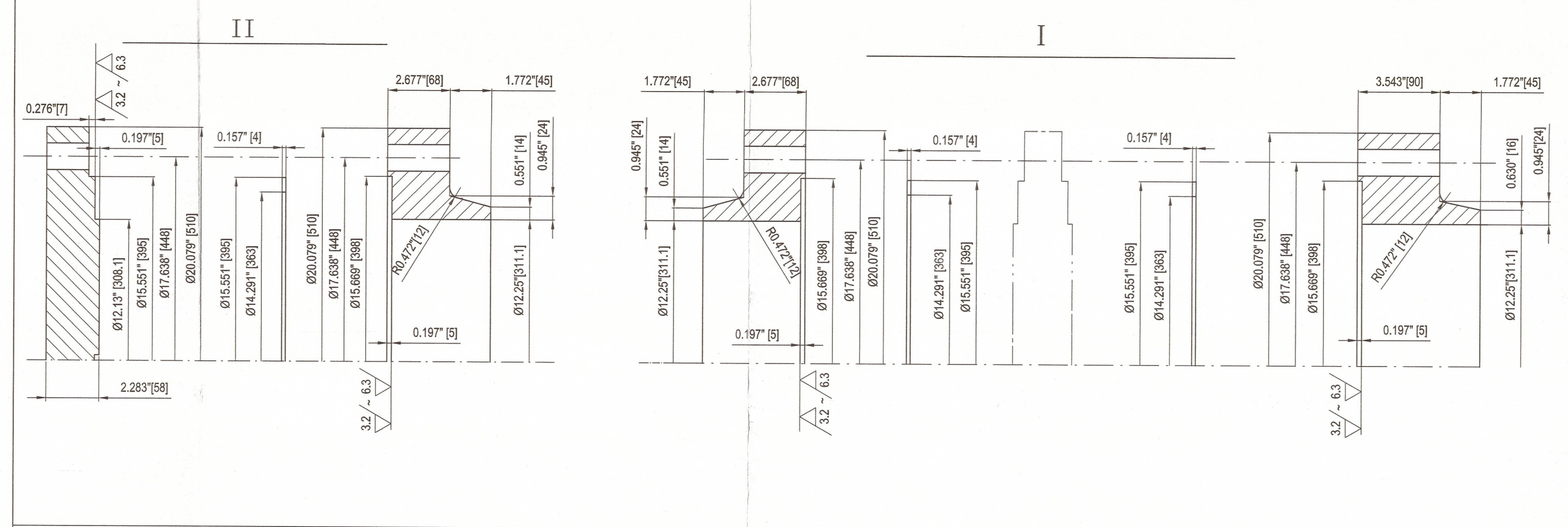
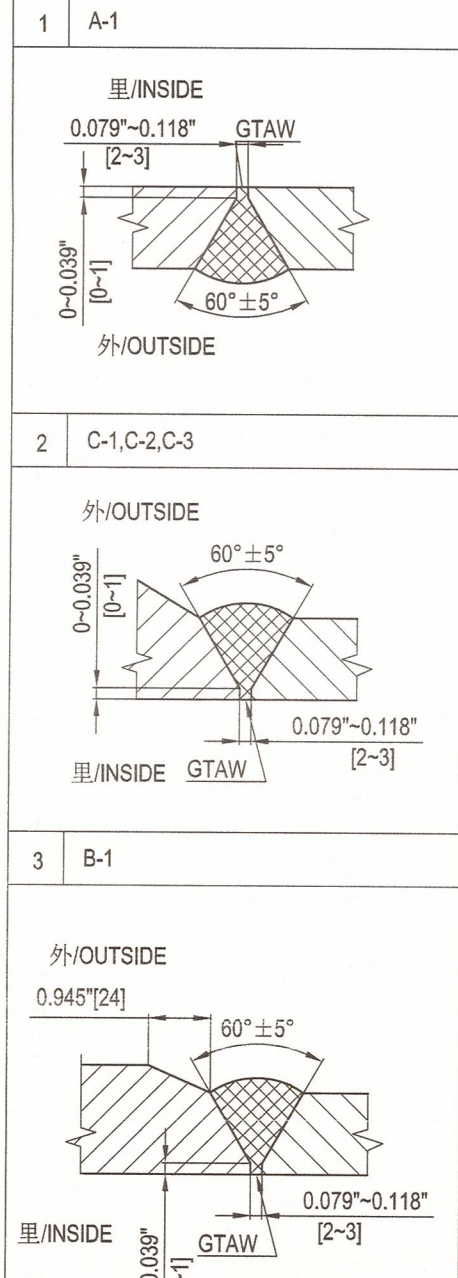
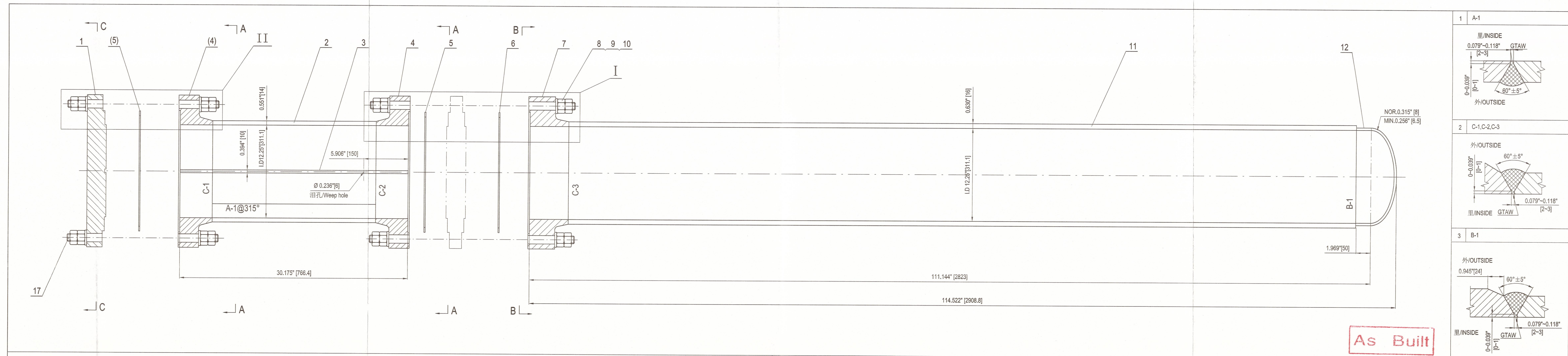


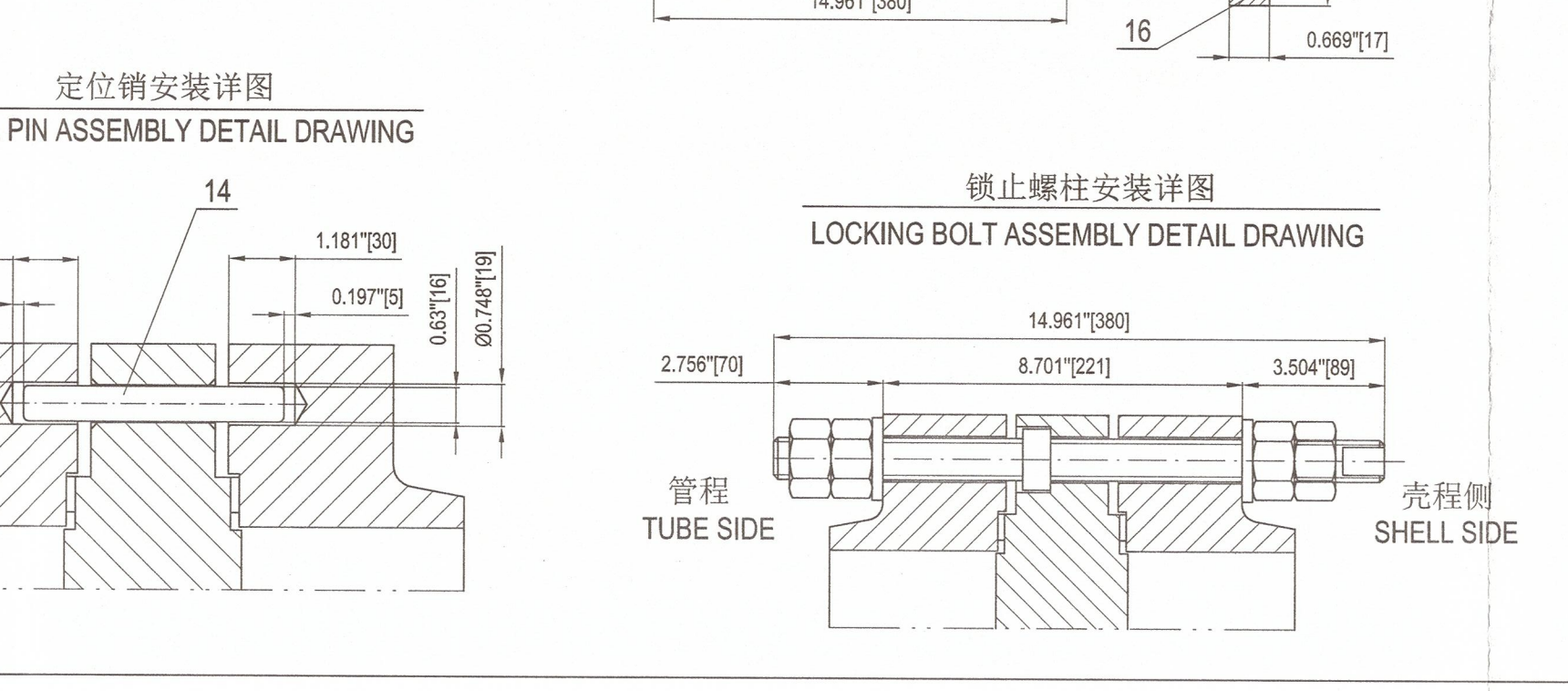
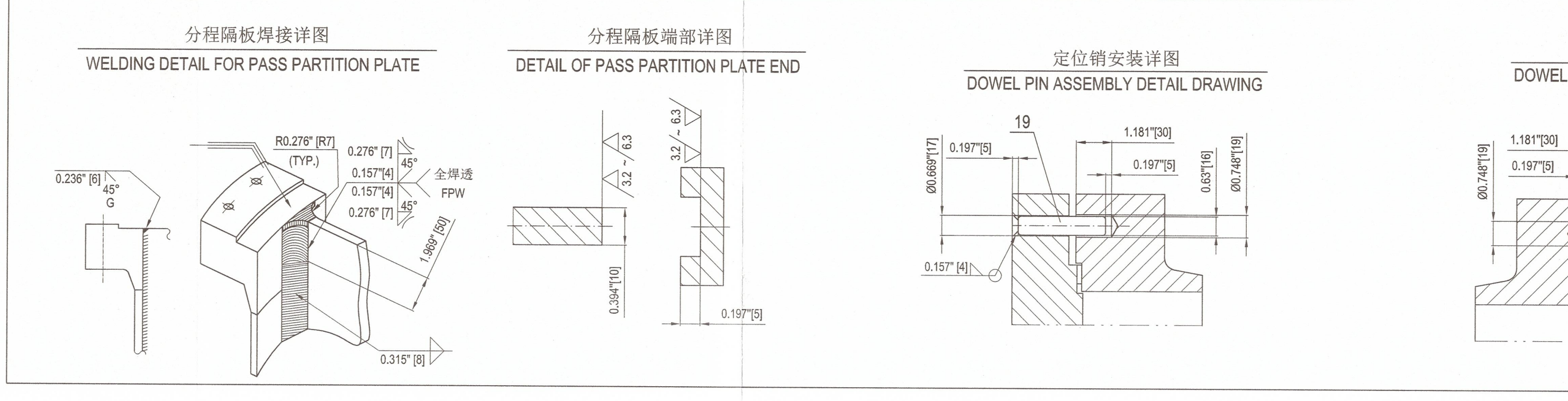
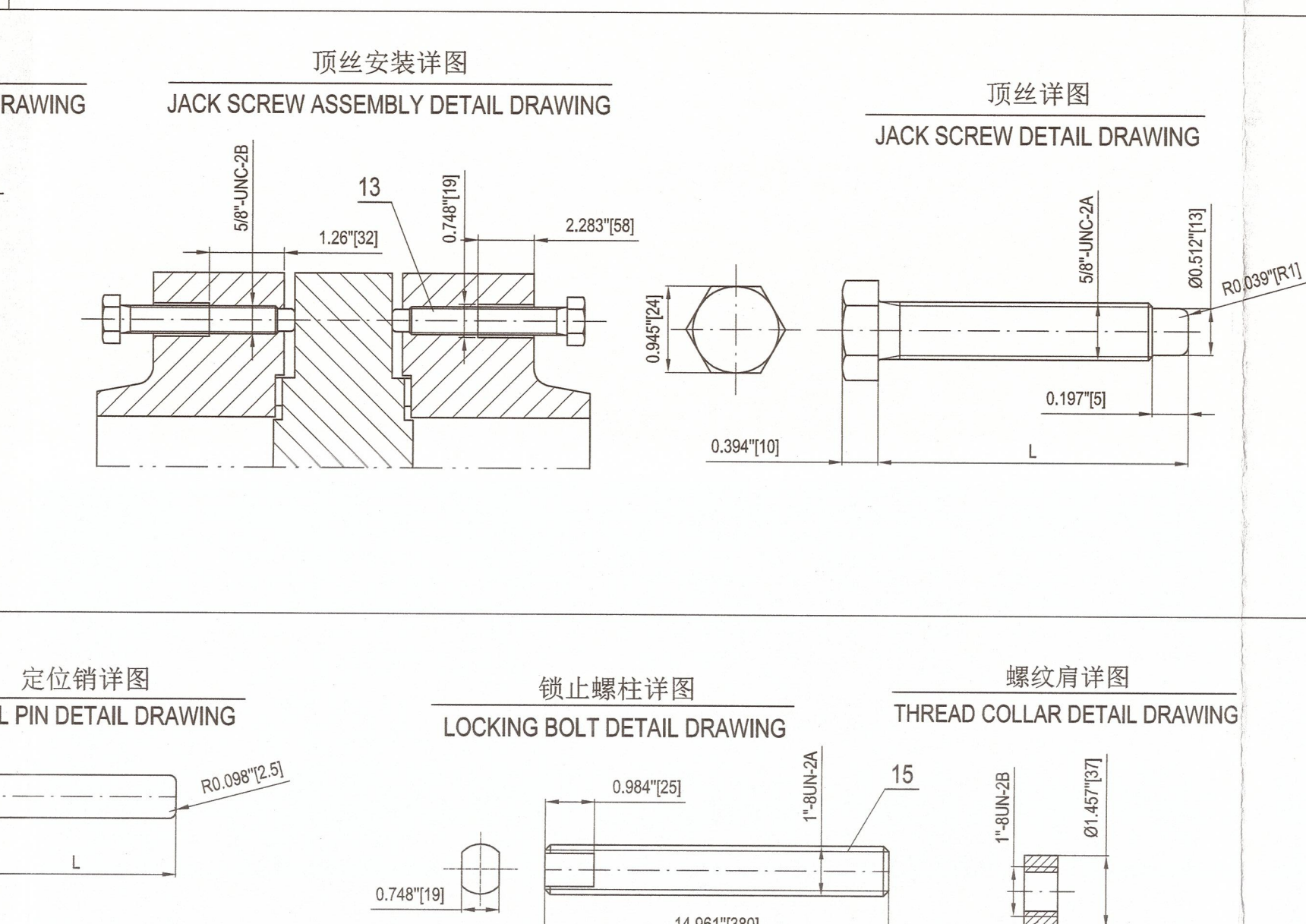
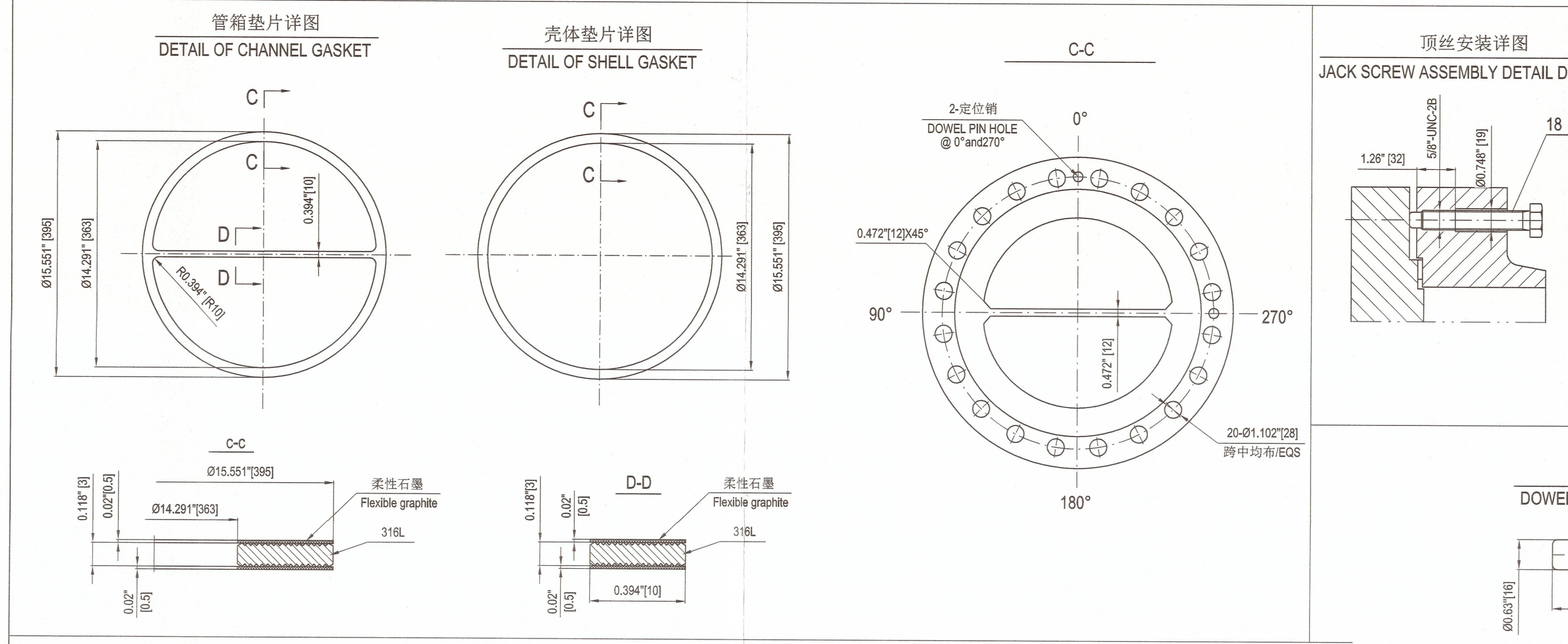


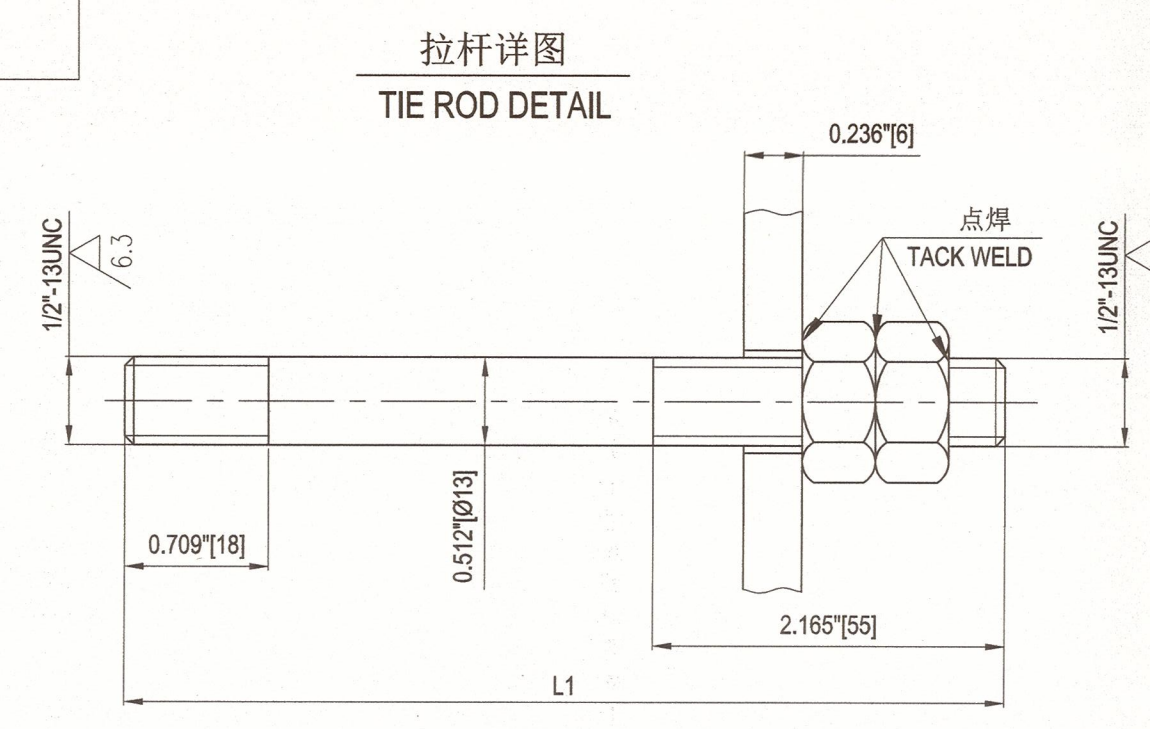
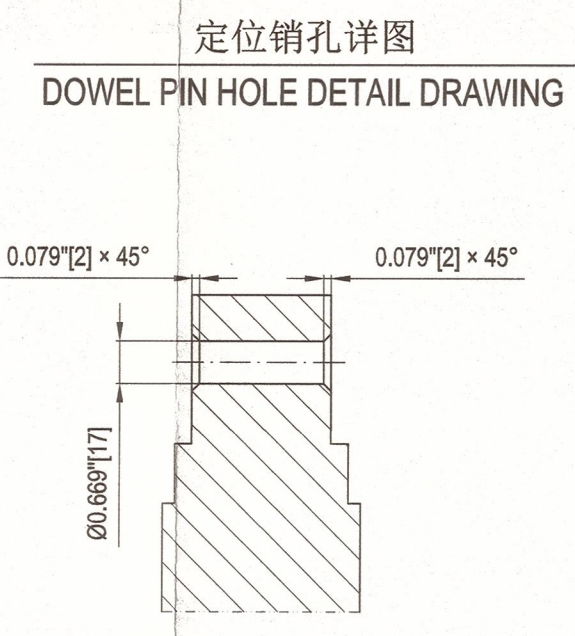
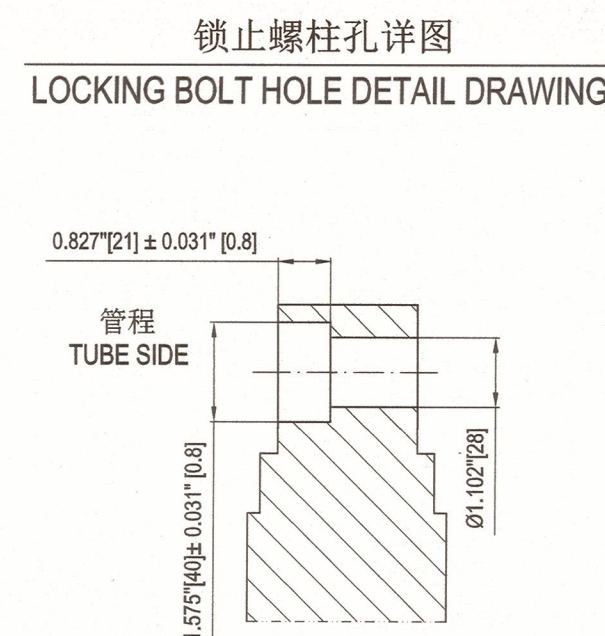
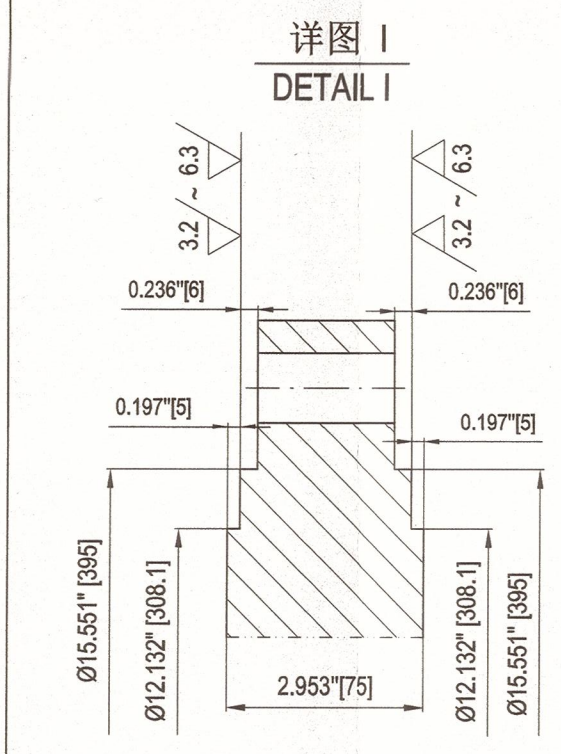
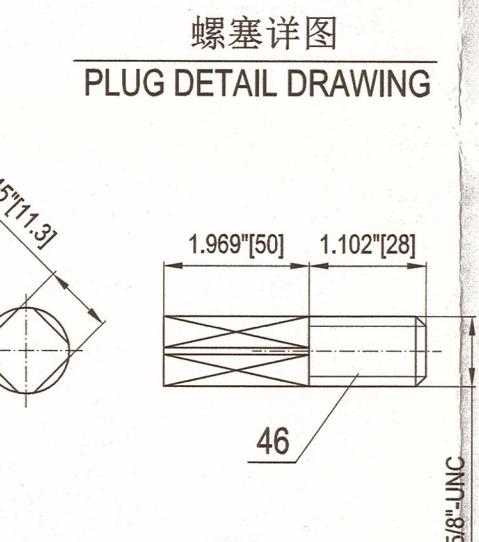
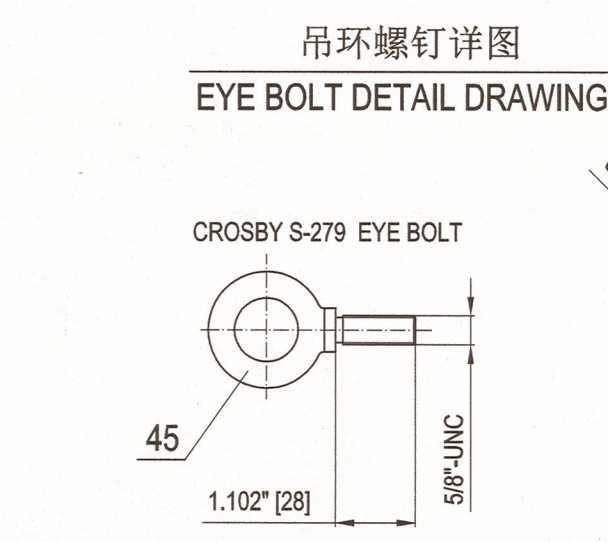
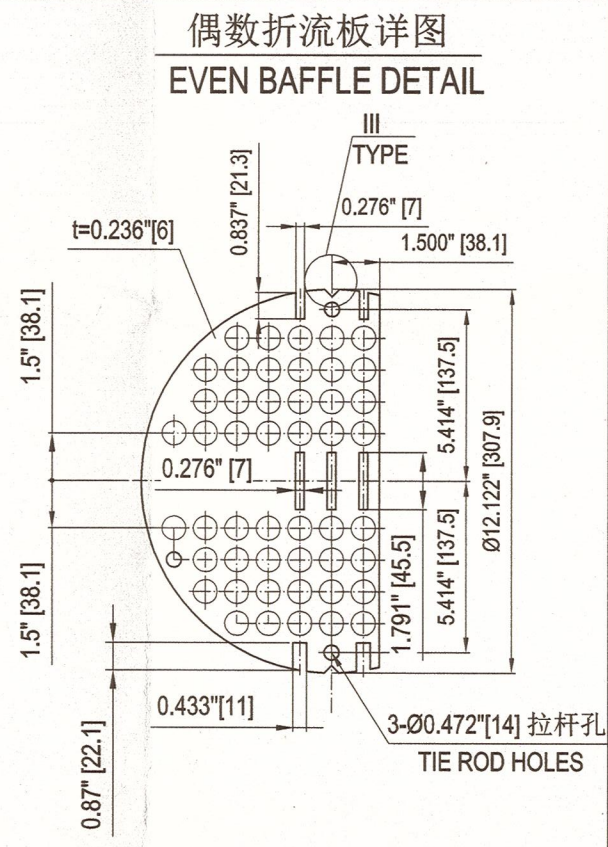
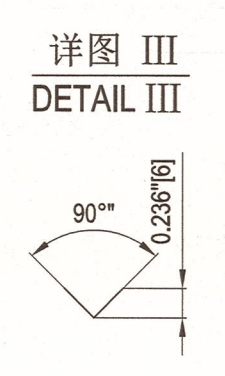
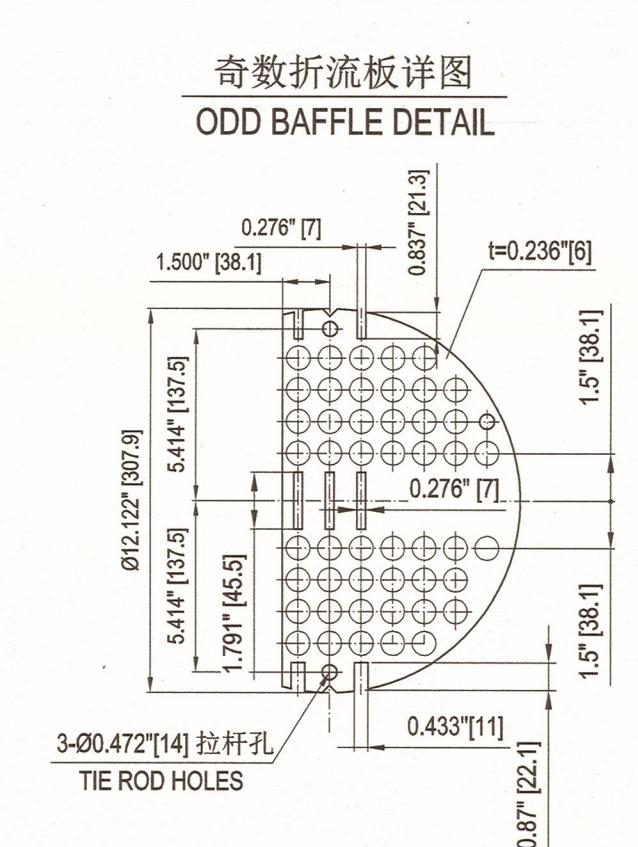
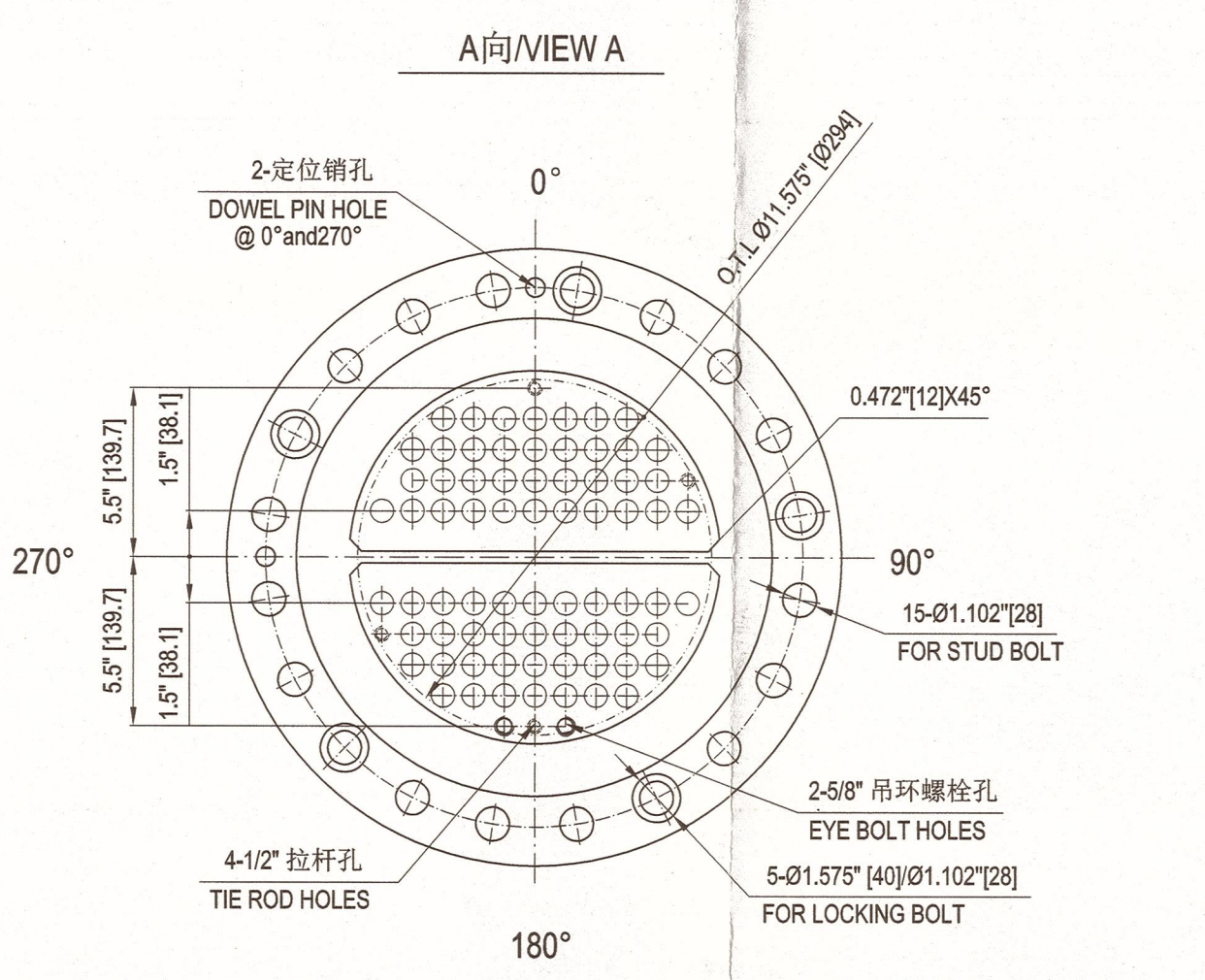
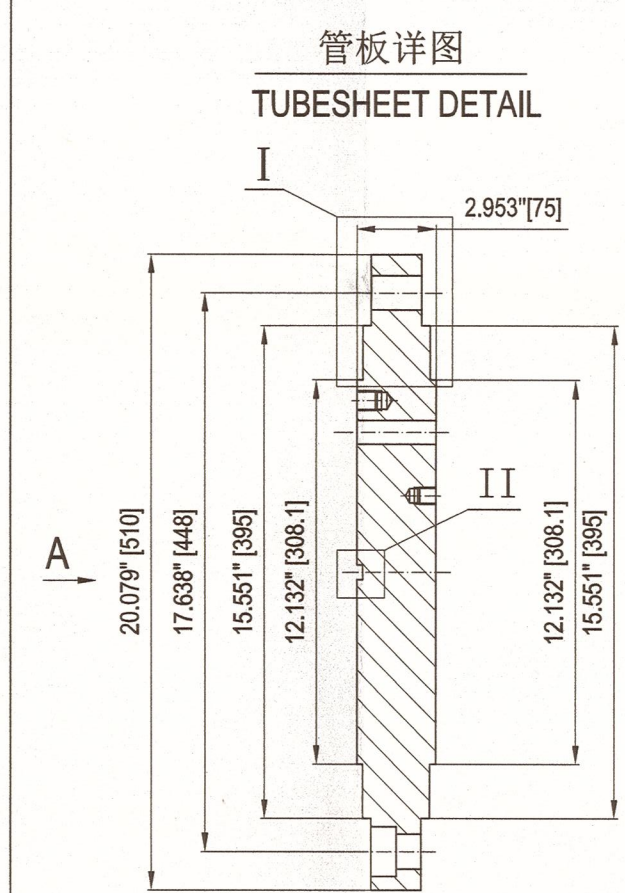
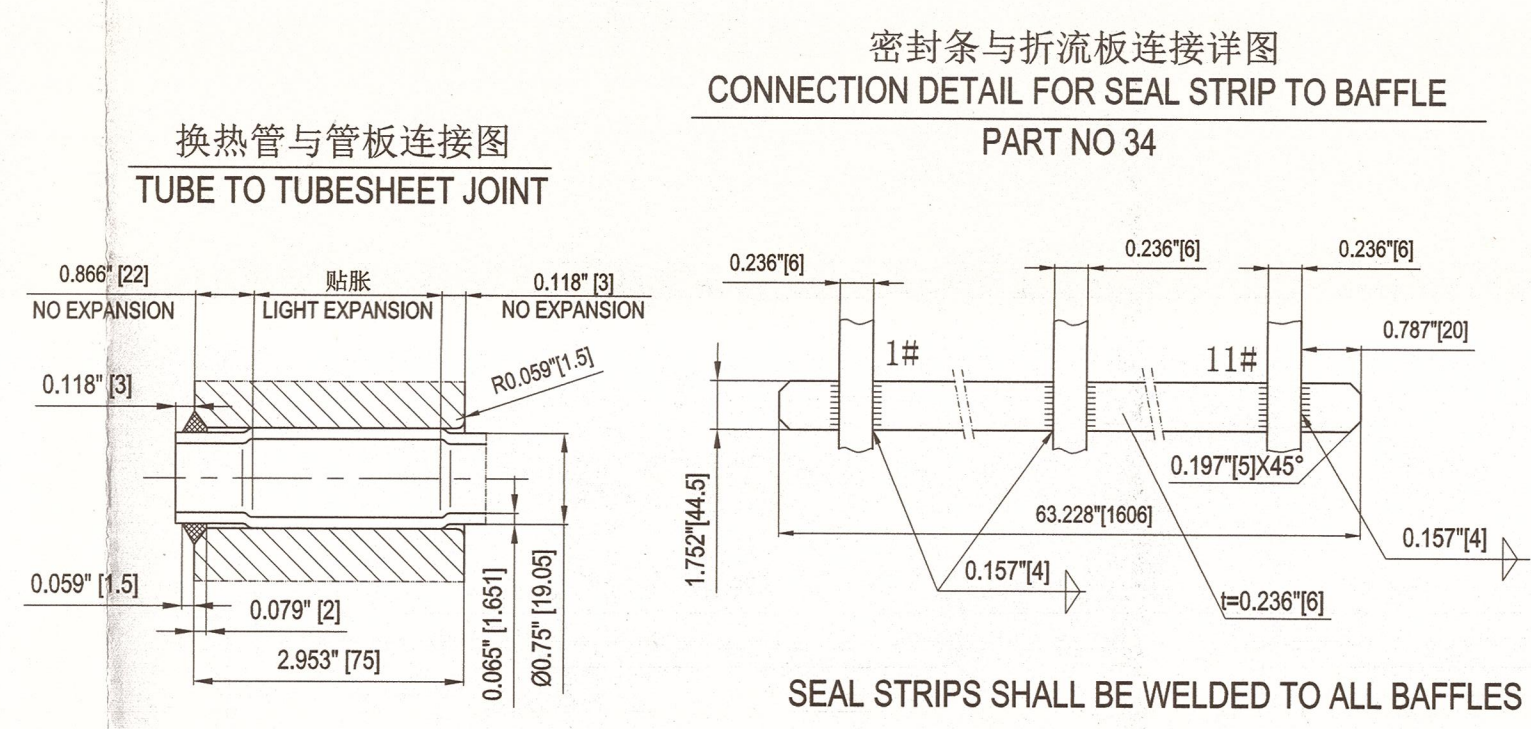
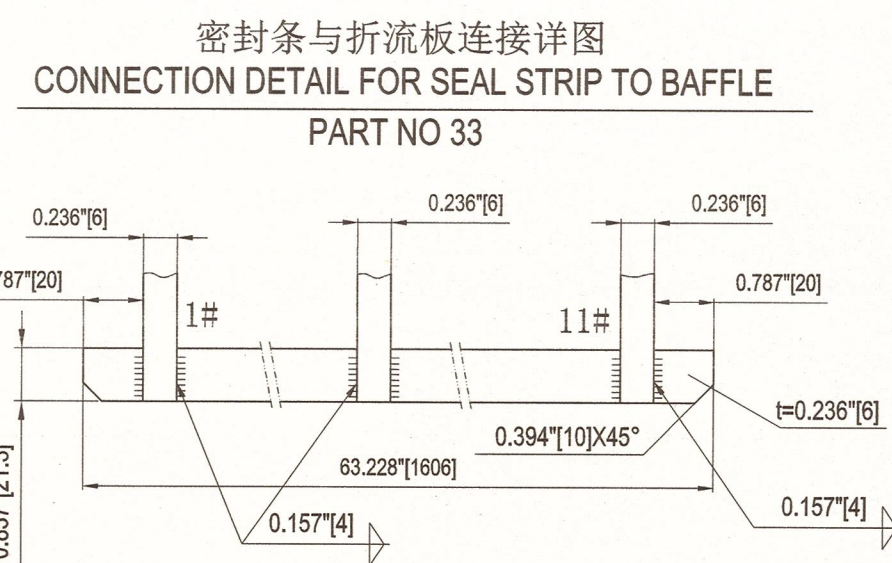
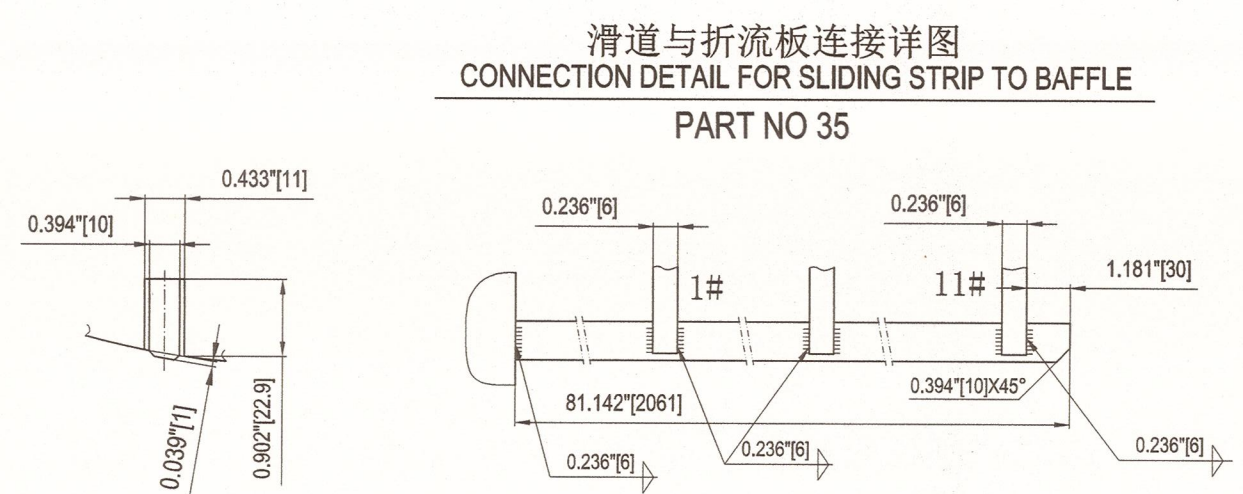
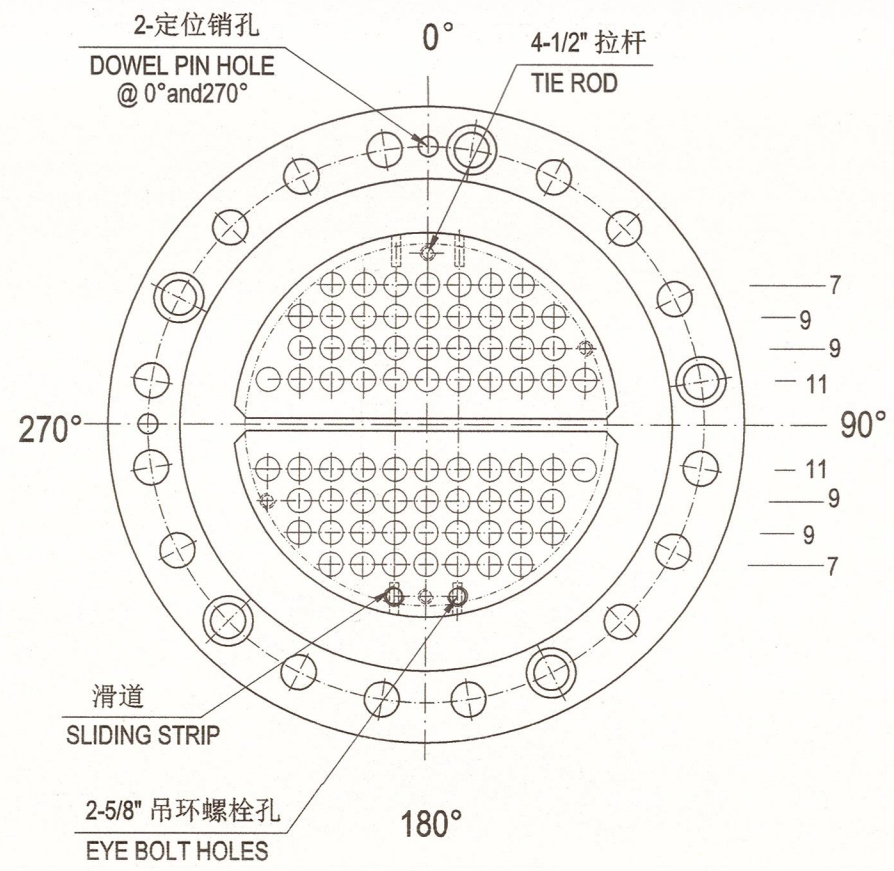
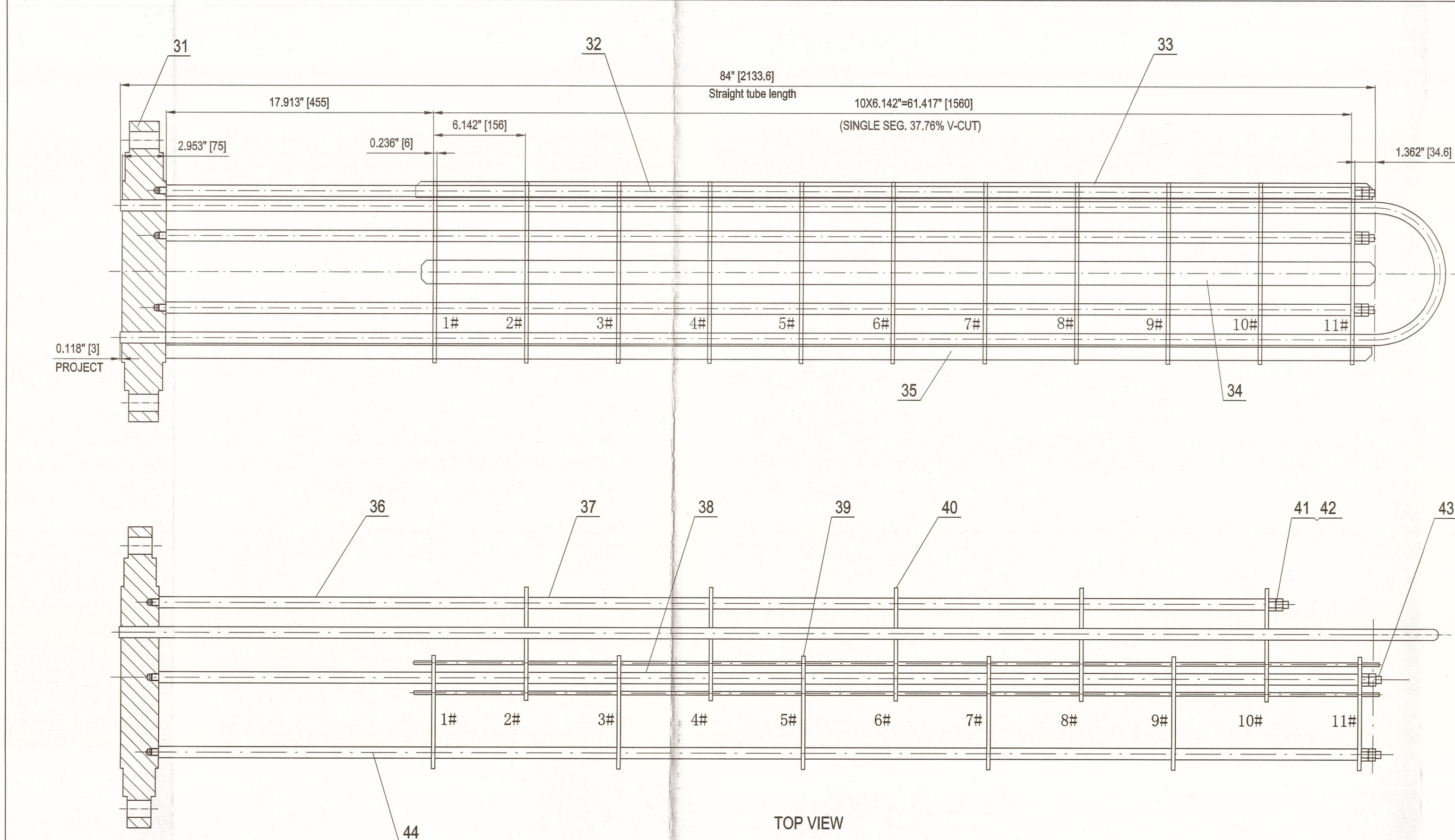
注/NOTE
1.垫片为KAMMPROFILE(或FLEXITALLIC 或LAMONS制作)垫片, 由3mm厚SS316L金属板和上下两层0.5mm厚的石墨组成;
THE GASKET IS KAMMPROFILE(EITHER FLEXITALLIC OR LAMONS MAKE); THICKNESS OF PERIPHERAL GASKETS SHALL BE 3mm+0.5mm+0.5mm GRAPHITE LAYERS IN BOTH SIDES. SERRATED METAL MATERIAL IS SS316L.
2.垫片系数:
GASKET FACTORY IS m=4.25,y=10100 psi.

19	定位销 L=72 DOWEL PIN	2	SS.304	0.1	0.2	
18	顶丝 L=120 JACK BOLT	3	SS.304	0.14	0.42	
17	ASME B18.2.1-2012 (R2021) 全螺纹螺栓 1"-8UN-2A L=260 FULL THREAD STUD BOLT	20+2	SA-193 B7	0.6	12.0	
16	螺纹肩 THREAD COLLAR	5+2	SA-194 2H	0.08	0.4	
15	锁止螺栓 LOCKING BOLT	5+2	SA-193 B7	1.7	8.4	
14	定位销 L=113 DOWEL PIN	2	SS.304	0.1	0.2	
13	顶丝 L=130 JACK BOLT	6	SS.304	0.15	0.9	
12	2:1椭圆封头 2:1 ELLIPTICAL HEAD	1	SA-240 316L		10.1	
11	筒体 ID 311.1X16 L=2643 SHELL	1	SA-182 F316L		348	
10	ASME PCC 1-2019 APPENDIX M 垫圈 1" WASHER	80+8	TYPE 4	0.08	6.4	
9	ASME B18.2.2-2022 重型六角螺母 1"-8UN-2B HEAVY HEAVY HEX NUT	160+16	SA-194 2H	0.3	48.0	
8	ASME B18.2.1-2012 (R2021) 全螺纹螺栓 1"-8UN-2A L=360 FULL THREAD STUD BOLT	15+2	SA-193 B7	0.6	9.0	
7	壳体法兰 SHELL FLANGE	1	SA-182 F316L		100	
6	壳体垫片 SHELL GASKET	1+2	316L+柔性石墨 FLEXIBLE GRAPHITE	/	/	Note 1,2
5	管箱垫片 CHANNEL GASKET	2+4	316L+柔性石墨 FLEXIBLE GRAPHITE	/	/	Note 1,2
4	管箱法兰 CHANNEL FLANGE	2	SA-266 Gr.2N	74.6	149	
3	分层隔板 t=10 PASSPARTION PLATE	1	SA-516 Gr.70N		22.8	
2	管箱筒体 ID 311.1X14 L=550 CHANNEL SHELL	1	SA-516 Gr.70N		61.8	
1	平盖 FLAT COVER	1	SA-266 Gr.2N		91.8	

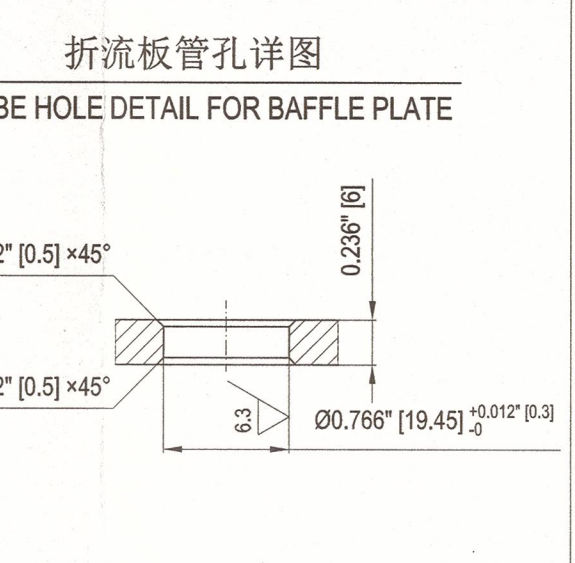
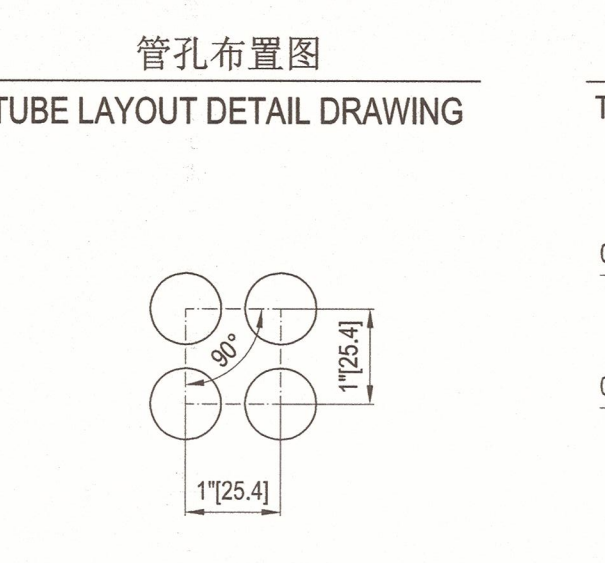
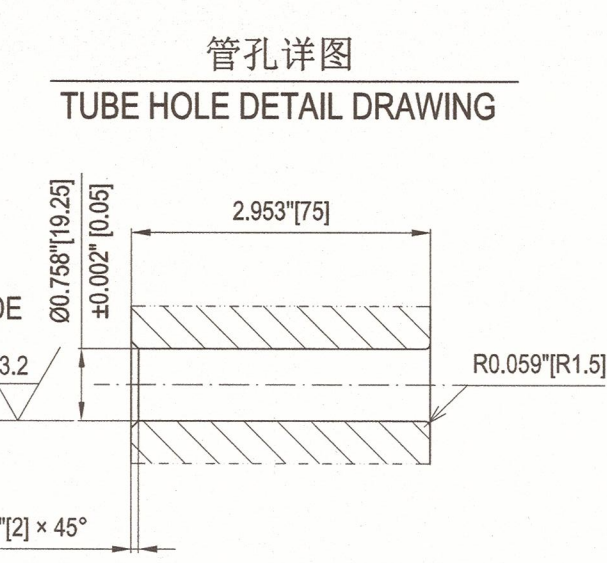
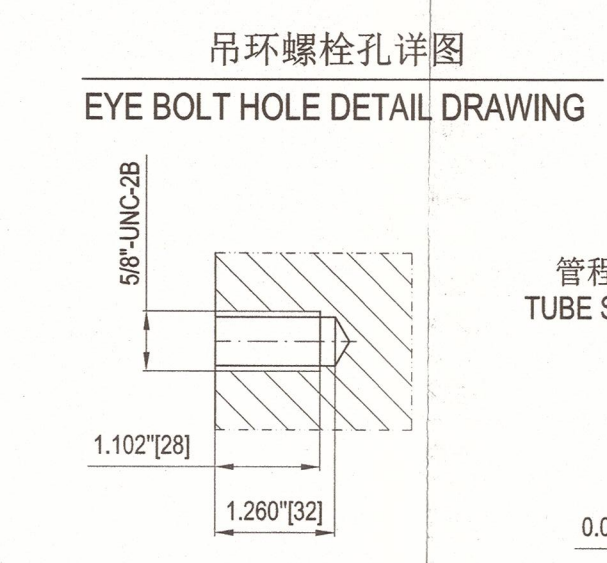
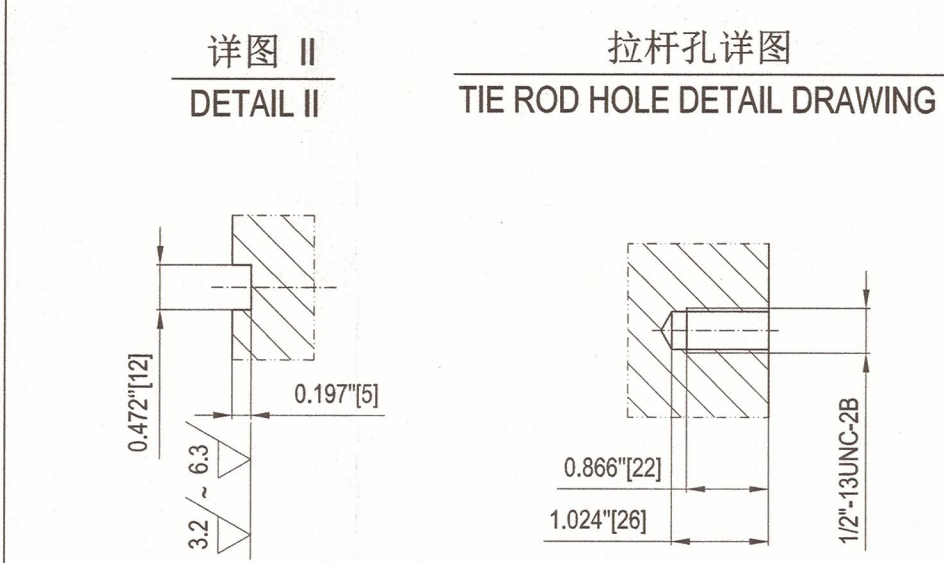
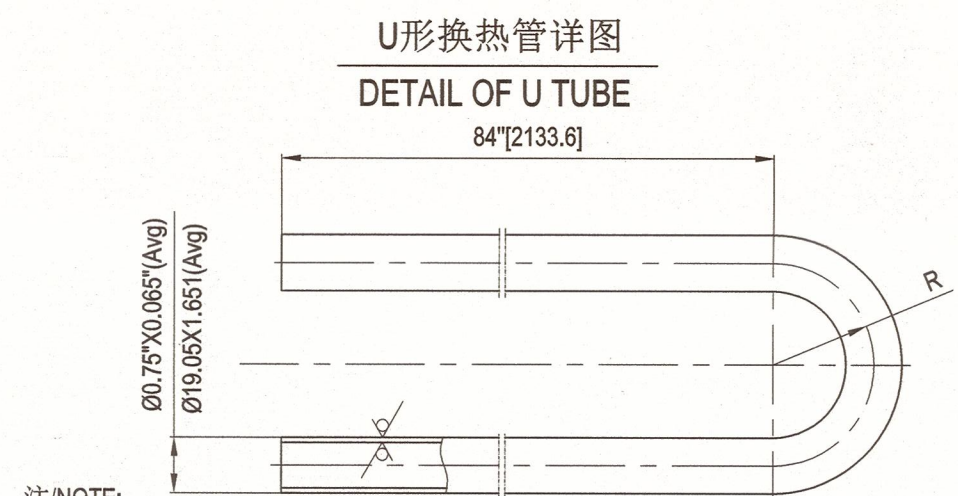
件号 PART NO	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单重 (kg) 重量 (kg)	总重 (kg) 重量 (kg)	备注 REMARKS
AIR PRODUCTS 			FLUOR.				
Air Products Project Number		EN207123	Fluor Project Number		ABKM		
Project Name		World Energy Renew Utilities US7L	RFQ No.		ABKM-4-403-RQ		
Purchase Order Number		4505600575	PO/Contract No		ABKM-4-403-PO-6		
Air Products Open Text document number		EN207123-WUXI-9V3-00012	Project Area		Utilities		
Client		WORLD ENERGY PARAMOUNT		Client Doc No:			
05	竣工版/AS BUILT		Hu Wenchao	Shengfang Zhao	Kevin Yang	13-Mar-23	
04	供批准/ISSUED FOR APPROVAL		Hu Wenchao	Shengfang Zhao	Kevin Yang	18-Nov-22	
03	供批准/ISSUED FOR APPROVAL		Hu Wenchao	Shengfang Zhao	Kevin Yang	8-Sep-22	
02	供批准/ISSUED FOR APPROVAL		Hu Wenchao	Shengfang Zhao	Kevin Yang	10-Aug-22	
版次 REV		版次说明/DESCRIPTION		设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE

设计 DESIGN		WCE 无锡化工装备股份有限公司 WUXI CHEMICAL EQUIPMENT CO., LTD.		设计项目 DESIGN ITEM 设计阶段 DESIGN PHASE 设备位号 ITEM NO. 图号 DWG. NO.		World Energy Renewables Project 详细设计 Detail Design 18-X-1803 WXCE6717-01
设计 PREPARED	胡文超	2023.10	T-20001 Recirculating Exchanger SHELL DETAIL DRAWING		比例 SCALE	1:5
审核 REVIEWED	赵肥芳	2023.10	版次 REV.		05	
批准 APPROVED		2023.10	第 1 页 共 1 页 PAGE 1 OF 1			





件号	L1
43	82.087\"
41	75.945\"

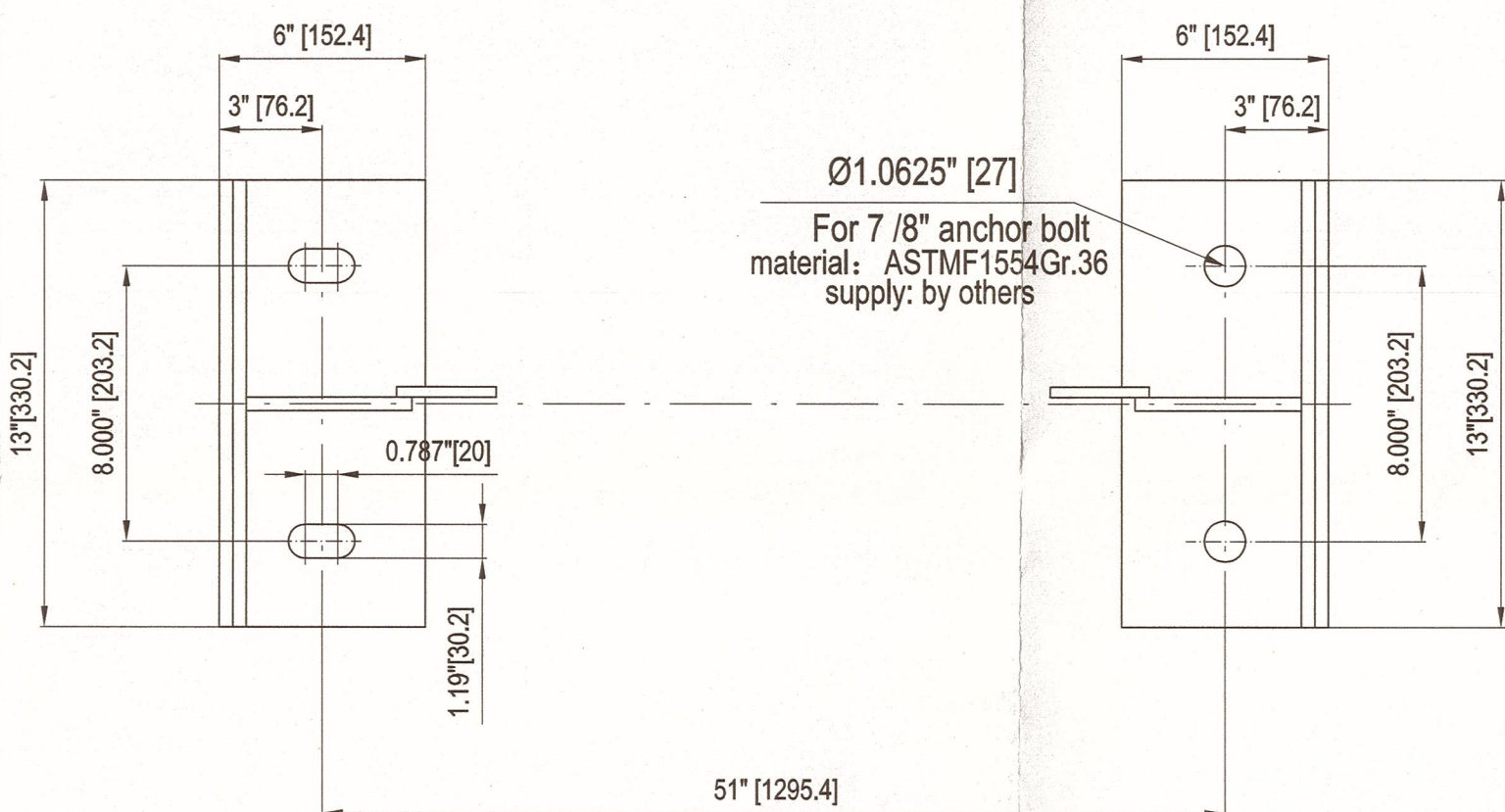
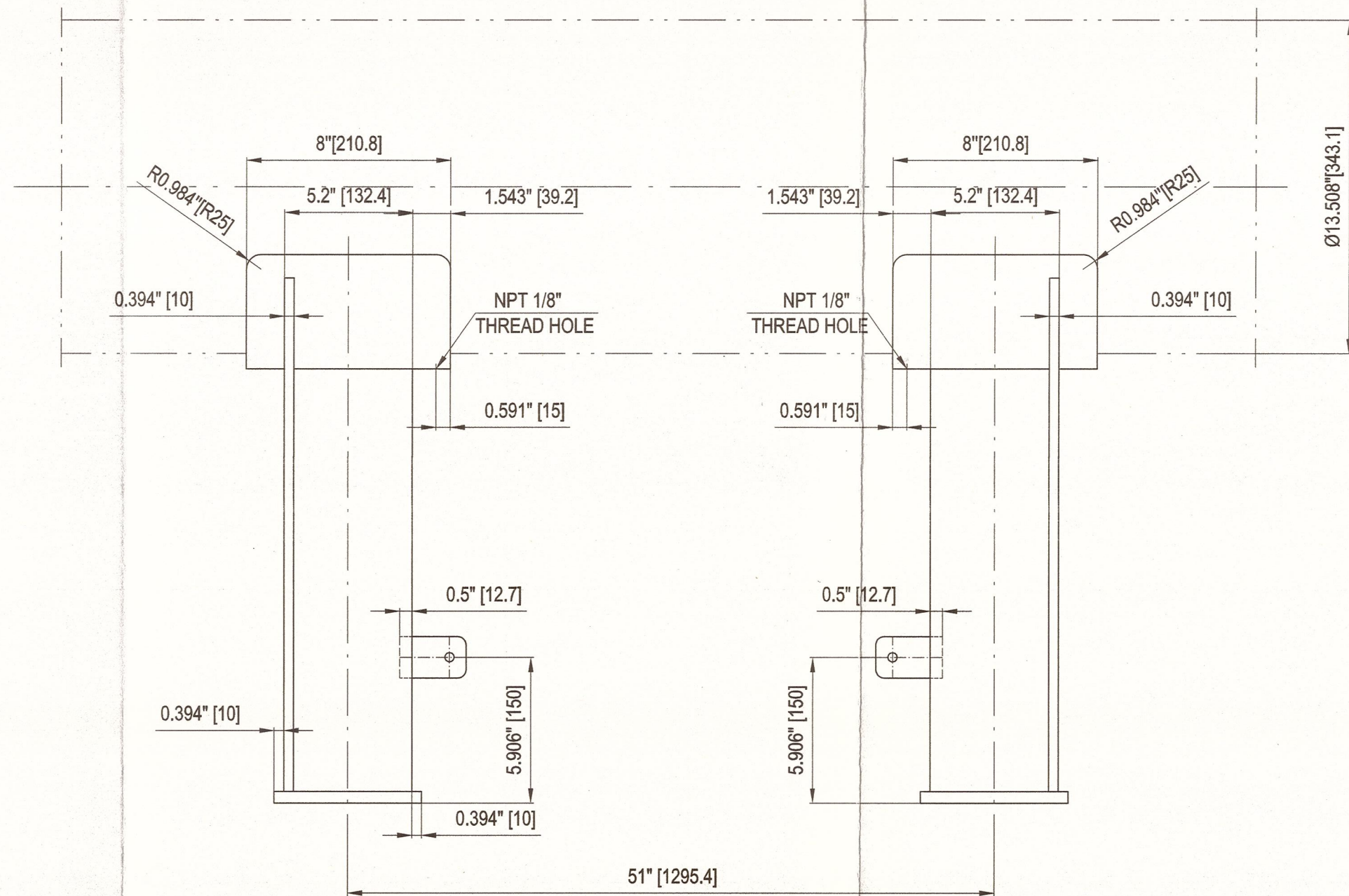


U型换热管数据表/DATA TABLES OF U TUBES						
序号	直管段L(mm)	弯曲半径R(mm)	换热管展开长度TUBE LENGTH (mm)	管数QTY.	单重(Kg)	总重(Kg)
1	84.000\"	1.5\"	172.71\"	11	3.1	34.0
2	84.000\"	2.5\"	175.85\"	9	3.2	28.3
3	84.000\"	3.5\"	178.98\"	9	3.2	28.8
4	84.000\"	4.5\"	182.14\"	7	3.3	22.8

46	螺塞 PLUG	2	SA-182 F60	/	/	
45	CROSBY S-279 吊环螺栓 5/8\"-UNC L=28 EYE BOLT	2	SA-182 F60	/	/	
44	定距管 Ø19.05*1.651 L=455 SPACER	3	SA-213 TP316L	0.3	0.9	
43	拉杆 Ø13 L=2085 TIE ROD	3	SA-479 316L	4.8	14.4	
42	六角螺母 1/2\" HEX NUT	8	SA-194 8	/	/	
41	拉杆 Ø13 L=1929 TIE ROD	1	SA-479 316L		4.5	
40	偶数折流板 t=6 EVEN BAFFLE	5	SA-240 316L	1.6	8.0	
39	奇数折流板 t=6 ODD BAFFLE	6	SA-240 316L	1.6	9.6	
38	定距管 Ø19.05*1.651 L=150 SPACER	20	SA-213 TP316L	0.1	2.0	
37	定距管 Ø19.05*1.651 L=294 SPACER	9	SA-213 TP316L	0.2	1.8	
36	定距管 Ø19.05*1.651 L=611 SPACER	1	SA-213 TP316L		0.4	
35	滑道 SLIDING STRIP	2	SA-240 316L	2.7	5.4	
34	密封条 SEAL STRIP	3	SA-240 316L	5.5	16.5	
33	密封条 SEAL STRIP	2	SA-240 316L	4.2	8.4	
32	U形换热管 Ø19.05*1.651(Avg) U TYPE TUBE	36	SA-789 S32205	113.9		Seamless
31	管板 TUBE SHEET	1	SA-182 F60		102.4	
件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单重 WEIGHT	备注 REMARKS

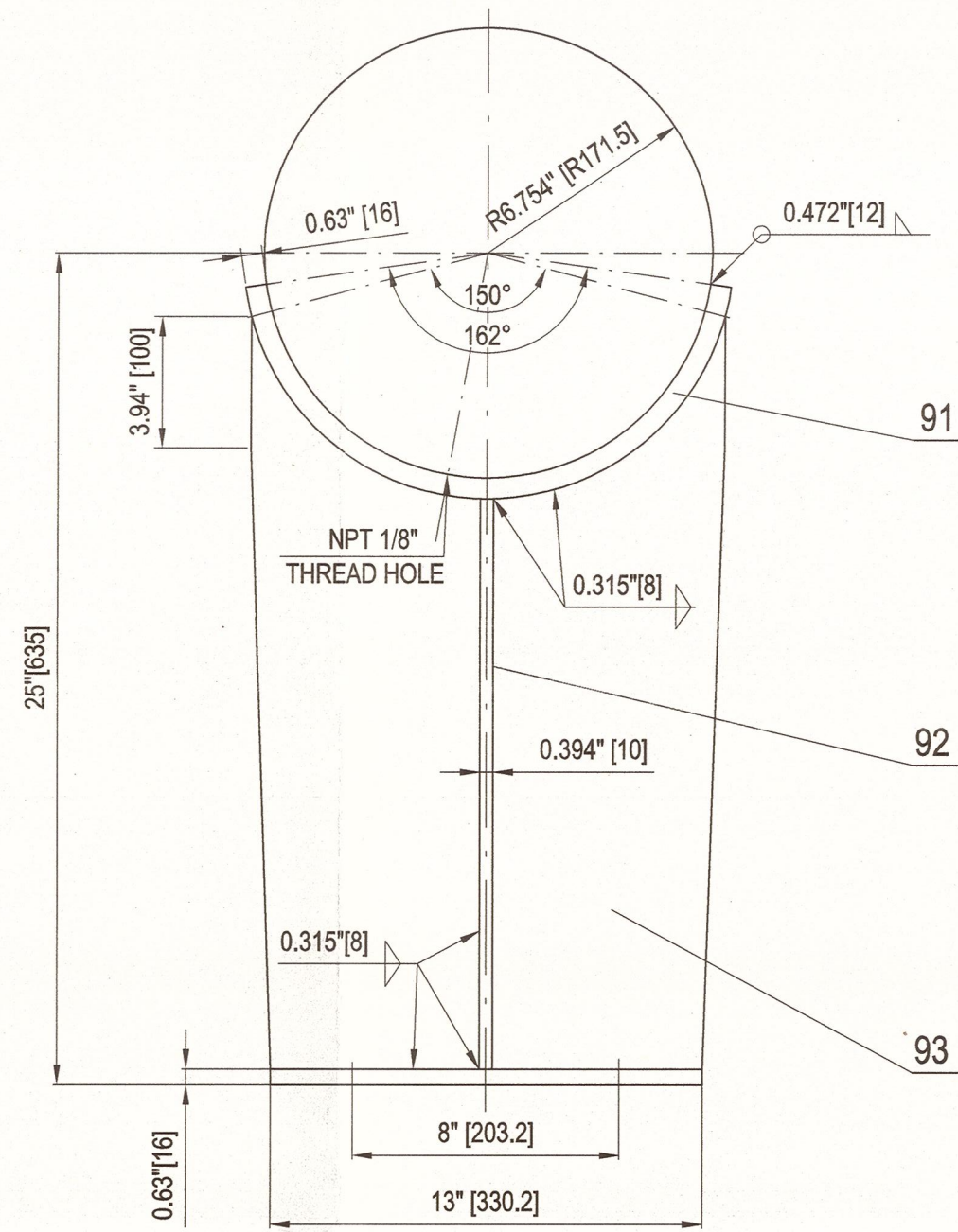
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Air Products Project Number		EN207123		Fluor Project Number		A8KM					
Project Name		World Energy Renewal Utilities USTL		RFQ No.		A8KM4-403-RQ					
Purchase Order Number		4505600575		PO/Contract No		A8KM4-403-PO-6					
Air Products Open Text document number		EN207123-WUXI-9V3-00012		Project Area		Utilities					
Client		WORLD ENERGY PARAMOUNT		Client Doc No:							
05	竣工版/AS BUILT			Hu Wenchao	Shengfang Zhao	Kevin Yang	13-Mar-23				
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02	供批准/ISSUED FOR APPROVAL			Hu Wenchao	Shengfang Zhao	Kevin Yang	10-Aug-22				
版次 REV		版次说明/DESCRIPTION		设计/PREPARED		审核/REVIEWED		批准/APPROVED		日期/DATE	

WCE 无锡化工装备股份有限公司		WUXI CHEMICAL EQUIPMENT CO., LTD.		设计项目	
DESIGN ITEM		World Energy Renewables Project		设计阶段	
DESIGN PHASE		详细设计		设备位号	
ITEM NO.		18-X-1803		图号	
DWG. NO.		WXCE8717-02		第 1 页 共 1 页	
PAGE 1 OF 1					

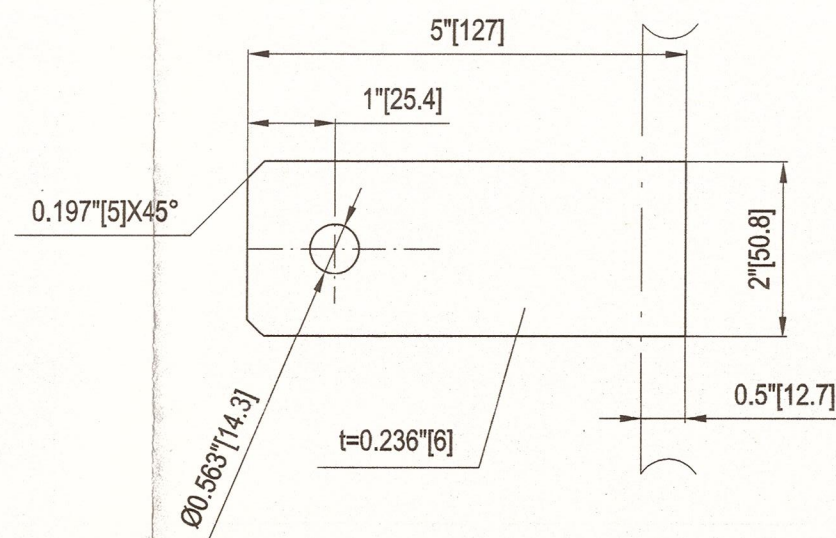


SLIDING SADDLE

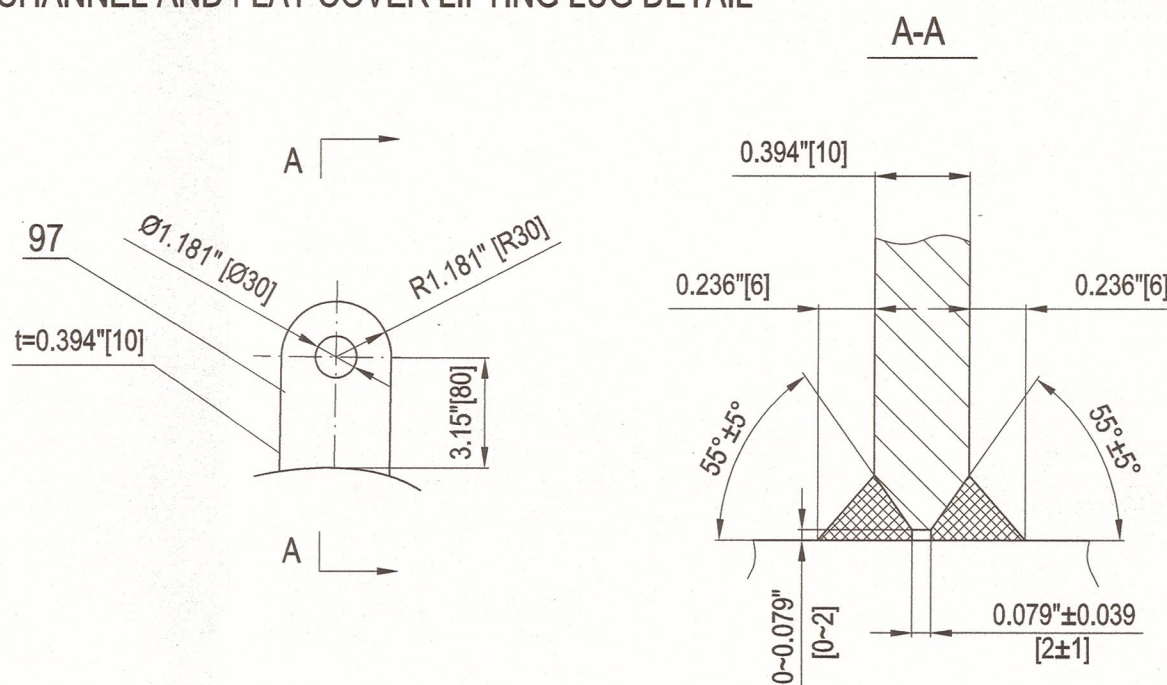
FIXED SADDLE



接地耳详图
EARTHING LUG DETAIL DRAWING



管箱及平盖吊耳详图
CHANNEL AND FLAT COVER LIFTING LUG DETAIL



98-102	删除 DELETE						
97	管箱及平盖吊耳吊耳 CHANNEL AND FLAT COVER LIFTING LUG	3	SA-516 Gr.70N	1.0	3.0		
96	接地耳 t=6 EARTHING LUG	2	SA-240 304	0.3	0.6		
95	底板 t=16 BASE PLATE	1	SA-516 Gr.70N		9.1		
94	底板 t=16 BASE PLATE	1	SA-516 Gr.70N		9.1		
93	腹板 t=10 WEB PLATE	2	SA-516 Gr.70N	11.8	23.6		
92	筋板 t=10 RIB PLATE	2	SA-516 Gr.70N	6.5	13		
91	垫板 t=16 WEAR PLATE	2	SA-240 316L	16.5	33.0		
件号 PART NO.	图号或标准号 DWG.NO.OR STD.NO.	名称 DESIGNATION	数量 QTY.	材料 MATERIAL	单重 WEIGHT	总重 TOTAL WEIGHT	备注 REMARKS

AIR PRODUCTS		FLUOR		As Built	
Air Products Project Number		Fluor Project Number			
Project Name		RFQ No.			
Purchase Order Number		PO/Contract No			
Air Products Open Text document number		Project Area			
Client		Client Doc No:			
05	竣工版/AS BUILT	Hu Wenchao	Shengfang Zhao	Kevin Yang	13-Mar-23
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版次 REV	版次说明/DESCRIPTION	设计/PREPARED	审核/REVIEWED	批准/APPROVED	日期/DATE

WCE 无锡化工装备股份有限公司 WUXI CHEMICAL EQUIPMENT CO., LTD.		设计项目 DESIGN ITEM World Energy Renewables Project	
设计阶段 DESIGN PHASE 详细设计 Detail Design		设备位号 ITEM NO. 18-X-1803	
图号 DWG. NO. WXCE6717-04		第 1 页 共 1 页 PAGE 1 OF 1	
设计 PREPARED	胡文超	2023.3.13	T-20001 Recirculating Exchanger
审核 REVIEWED	姜永强	2023.3.13	SADDLE AND LIFTING LUG DETAIL DRAWING
批准 APPROVED	姜永强	2023.3.13	比例: 1:5 SCALE
		版次: 05 REV.	