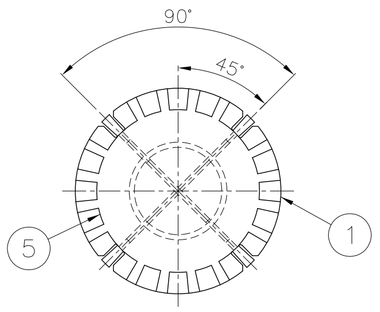
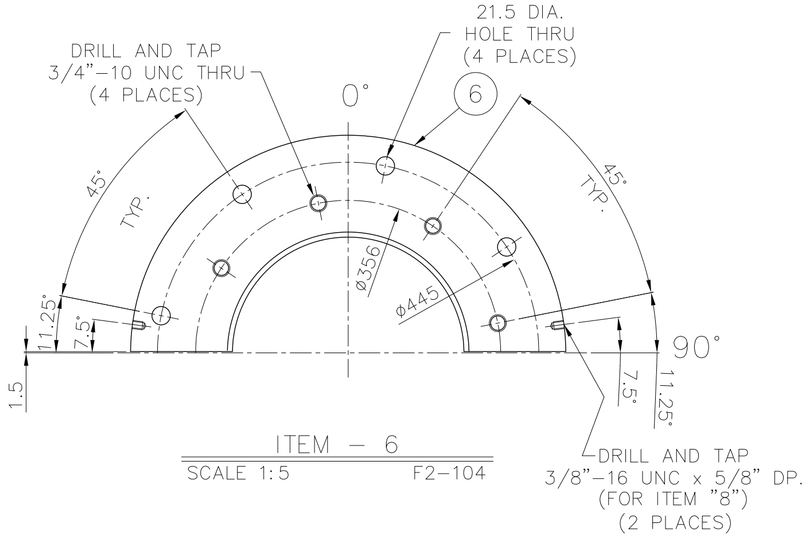
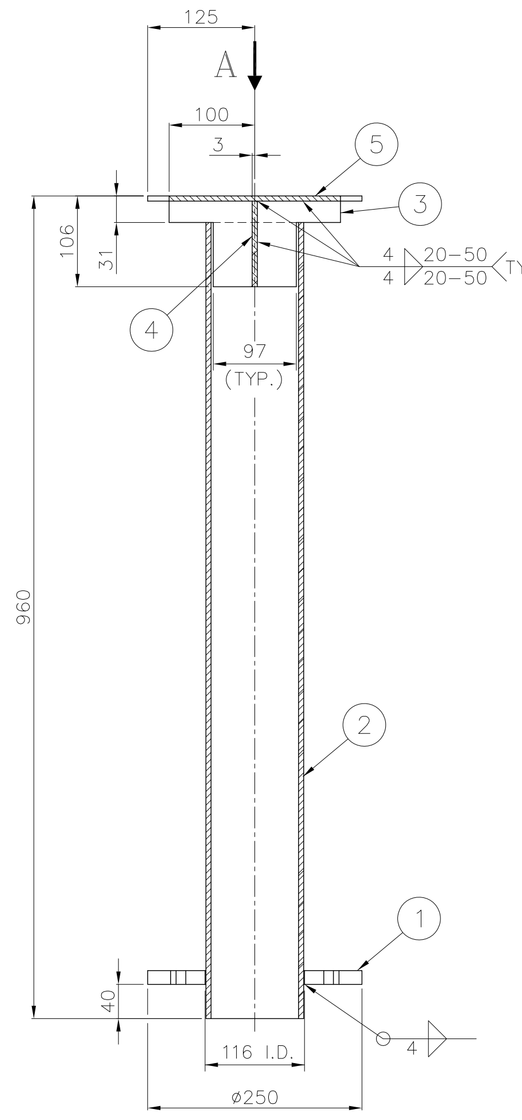


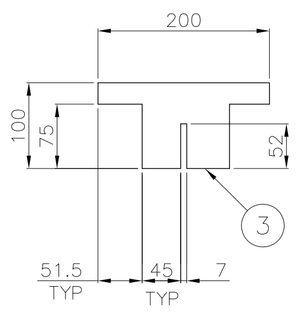
VIEW "A"
SCALE 1:5 F2-104



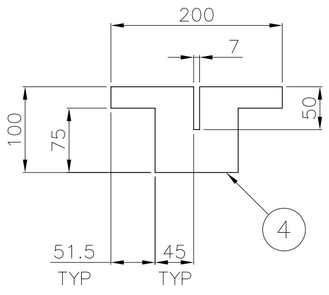
ITEM - 6
SCALE 1:5 F2-104



DETAIL F2-104-A
SCALE 1:5 F2-100
CATALYST SUPPORT TUBE



ITEM - 3
SCALE 1:5 F2-104

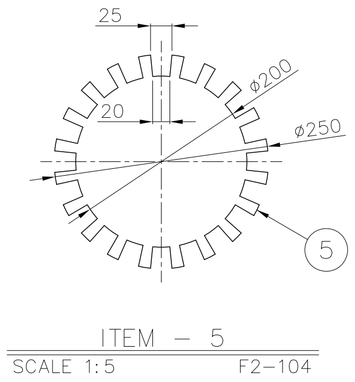


ITEM - 4
SCALE 1:5 F2-104

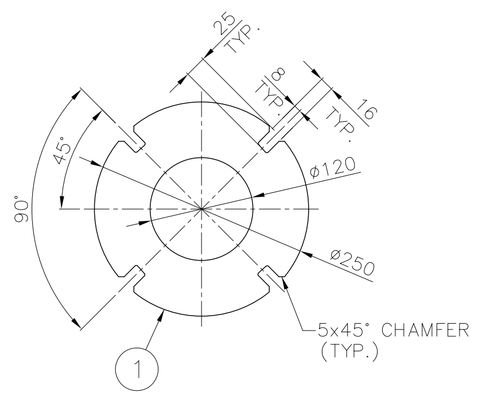
BILL OF MATERIAL						
FOR: REFORMER TUBE-ACCESSORIES						
DWG: F2-104						
ITEM	QTY	DESCRIPTION	WEIGHT (kg) UNIT	WEIGHT (kg) TOTAL	MAT'L	REMARKS
		DETAIL F2-104-A				
1	1	PL 10 x 250 O.D. x 120 I.D.	3.8	3.8	A-240-316L	
2	1	PIPE 4", Sch. 40S, L=929	15	15	A-312-310H	ASME B 36.19M
3	1	PL 6 x 100 x 200 LG.	0.6	0.6	A-240-310H	NOTE 7
4	1	PL 6 x 100 x 200 LG.	0.6	0.6	A-240-310H	NOTE 7
5	1	PL 6 x 250 O.D.	2.2	2.2	A-240-310H	NOTE 7
		TOTAL APPROX. NET WEIGHT - ONE ASSY.		23	kg.	
		DETAIL F2-104-B				
6	2	PL 25 x 508 O.D. x 278 I.D.	14.5	29	St 37-2	-
7	2	PL 6 x 22 x 117 LG. (ROLLED)	-	-	St 37-2	
8	4	3/8"-16 UNC x 3/4" LG. HEX. HD. CAP SCREW	-	-	A-449 GR. 5	ASME B18.2.1
		TOTAL APPROX. NET WEIGHT - ONE ASSY.		29	kg.	

TOTAL APPROX. NET WEIGHT - THIS DRAWING 52 Kg

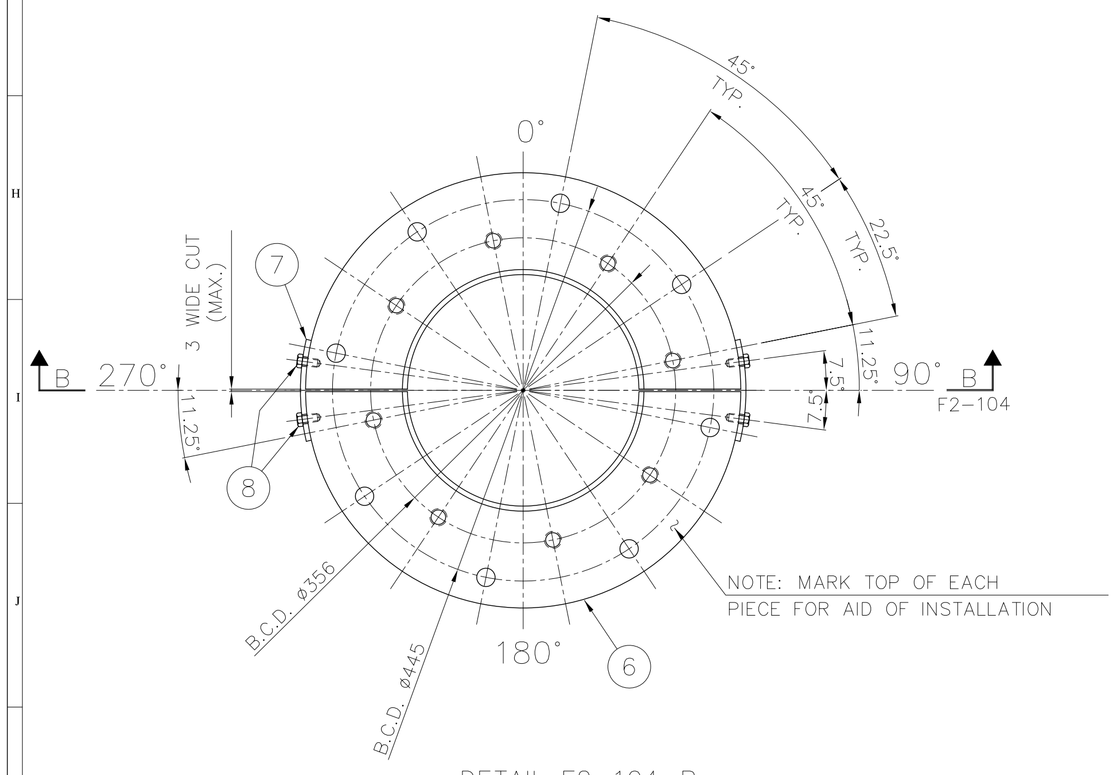
TOTAL APPROX. NET WEIGHT - 540 ASSY'S 28080 Kg



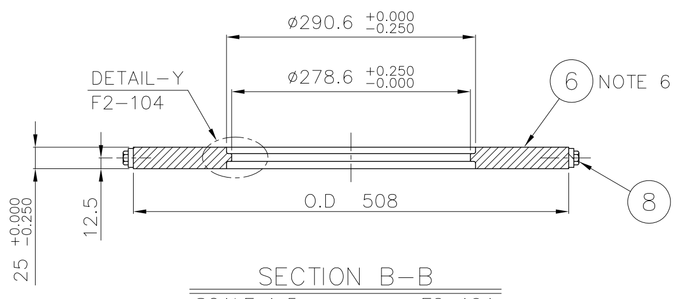
ITEM - 5
SCALE 1:5 F2-104



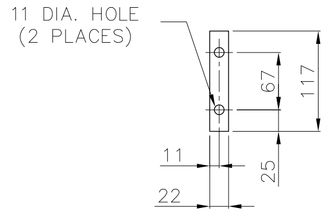
ITEM "1"
SCALE 1:5 F2-104



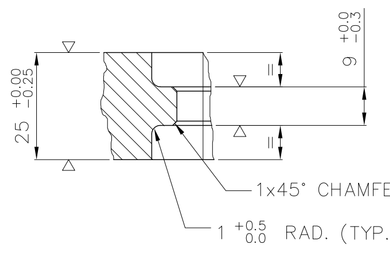
DETAIL F2-104-B
SCALE 1:5 F2-100
SPLIT RING FLANGE



SECTION B-B
SCALE 1:5 F2-104



DEVELOPED VIEW OF ITEM 7
SCALE 1:5 F2-104



DETAIL-Y
SCALE NONE F2-104

ITEM 7
SCALE 1:5 F2-104

NOTES:

1. ALL SURFACES TO BE WELDED SHALL BE CLEAN AND FREE FROM MILL SCALE, FLAKE RUST, OR PITTING.
2. ALL WELDS TO BE GAS-TIGHT, CONTINUOUS, AND TO DEVELOP FULL STRENGTH OF CONNECTING MEMBERS, UNLESS NOTED OTHERWISE.
3. ALL ALLOY/ALLOY AND ALLOY/MILD STEEL WELDS TO BE MADE USING INCO A OR 82 MATERIAL.
4. ALL EDGES TO BE BROKEN UNLESS NOTED OTHERWISE.
5. DELETED
6. CARBON STEEL SURFACES SHALL BE CORROSION PROTECTED WITH CRC SP-400 SPRAY ON TYPE CORROSION INHIBITOR OR EQUAL.
7. DUAL GRADE 310S/H MAYBE SUBSTITUTED FOR 310H MAT'L.

REFERENCE DRAWINGS:

F2-100 REFORMER TUBE ASSEMBLY

F2-107 REFORMER TUBE LOWER BELOWS ASSY.

UNLESS OTHERWISE SPECIFIED	
SURFACE FINISH DIN 3141 RANGE 2	3RD ANGLE PROJECTION
TOLERANCES & FITS: MACHINED SURFACES DIN 7168"MED"	BREAK ALL MACHINED SHARP EDGES BY 1x45°
WELDED CONSTRUCTION ACC. TO "AWS"	ALL DIM IN MILLIMETER

REV.	DATE	DESCRIPTION	PREPARE	CHECK	APPROVE
Z	Jun. 2019	-	AS BUILT	F.K.A. Co.	F.K.A. Co.
4	Oct. 2015	SIZE OF REFORMER TUBE CHANGED	ISSUED FOR CONSTRUCTION	AFRADI	FAHMPOUR
3	Jun. 2014	DIMENSION WAS CHANGED	ISSUED FOR CONSTRUCTION	MUSAVI	FARSHDMAND
2	May. 2014	CHANGED POS. 5	ISSUED FOR CONSTRUCTION	AFRADI	FARSHDMAND
1	Jan. 2014		ISSUED FOR CONSTRUCTION	MUSAVI	ABEDI

Project: KOWSAR GISD MEGA MODULE PROJECT

Client: G.I.S.D.Co. شرکت توسعه آهن و فولاد گل گهر

Contractor: MMTE MINES & METALS TECHNOLOGICAL ENGINEERING CO. شرکت مهندسی فنی آزمون متالورژی

Client's Project	Project Code	Main Contractor	Area Code	Plant Group	Equipment Code	Document Type	Eng. Discipline	Serial No.
GISD	7-2	119	1008	7	RM	04	M	104

	SIGNATURE	DATE
DESIGNED	MMTE	Jan. 2014
PREPARED	MUSAVI	Jan. 2014
CHECKED	ABEDI	Jan. 2014
APPROVED	M.A.EHYAEI	Jan. 2014

designation: REFORMER TUBE ACCESSORIES DETAILS AND SECTIONS (SHEET 1/2)

drawing-No. KGMM MR 27 F2 104

repl. for: repl. by :

SCALE: 1:5 REV.: Z SIZE: A1 SHEET: 1/1 CONT. & PROJ. NO. 92/5499

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