BILL OF MATERIAL

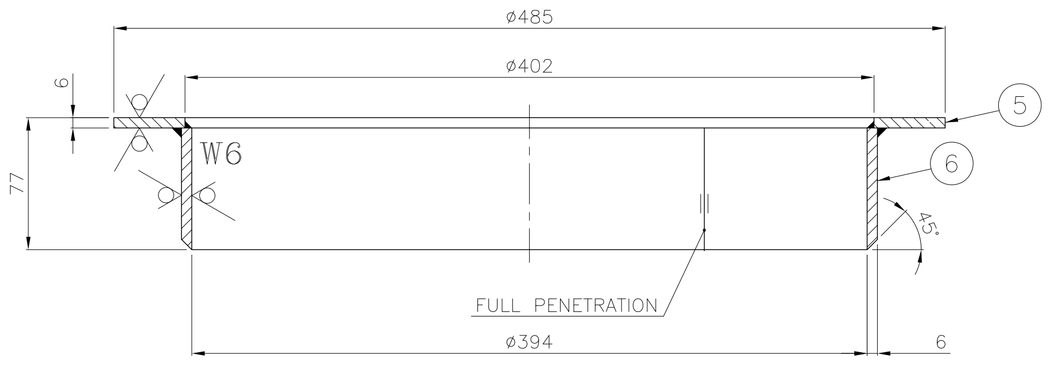
FOR: REFORMER TUBE DETAILS AND SECTIONS

DWG: F2-101 (540-REQ'D)

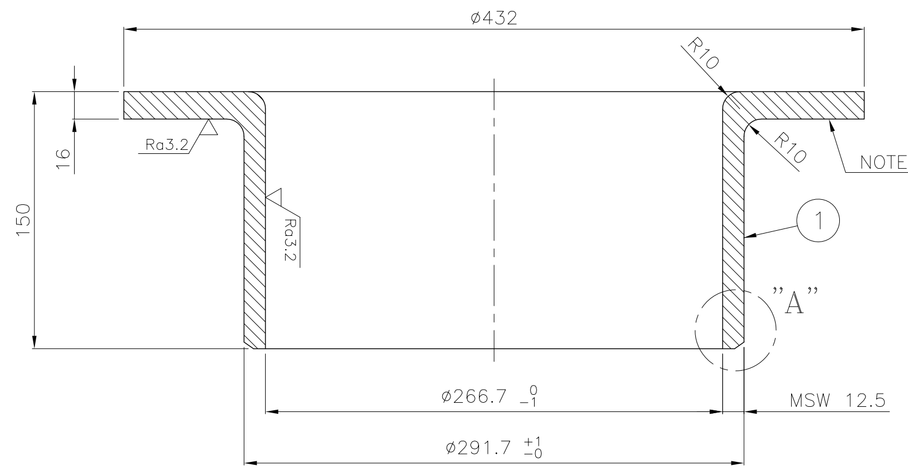
ITEM	QTY	DESCRIPTION	WEIGHT (kg) UNIT	WEIGHT (kg) TOTAL	MAT'L	STANDARD
		DETAIL F2-101-A				
1	1	CENTRICAST TOP FLANGE	23.6	23.6	GX45NiCrSiNbTi 35-25	Centralloy G 4852 MICRO
2a	1	CENTRICAST TOP TUBE 266.7I.D x 12.5MSW x 3650Lg	360.5	360.5	-	Centralloy 60 HTD
2b	1	CENTRICAST MIDDLE TUBE 266.7I.D x 12.5MSW x 4100Lg	415.1	415.1	G-NiCrTi28W	Centralloy G 4879 MICRO
3	1	CENTRICAST BOTTOM TUBE 266.7I.D x 10.3MSW x 1650Lg	136.3	136.3	GX45NiCrSiNbTi 35-25	Centralloy G 4852 MICRO
4	4	LUG 10x25x25	0.03	0.12	GX40NiCrSiNb 35-25	Centralloy G 4852
5	1	PLATE 6xI.D.402xO.D.485	2.8	2.8	C.S.	ASTM A36 OR EQUAL
6	1	PLATE 6xI.D.394 L=61	4.3	4.3	25Cr 20Ni	Tp 310 SS

TOTAL APPROXIMATE NET WEIGHT ONE ASSEY **942.7** Kg

TOTAL APPROXIMATE NET WEIGHT 540 ASSEY 509069 Kg



Detail Pos. 5,6
Sca: 1:2.5 F2-100



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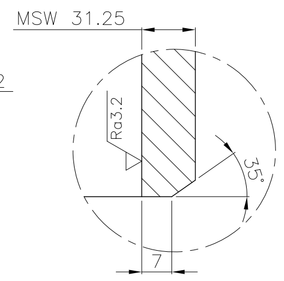
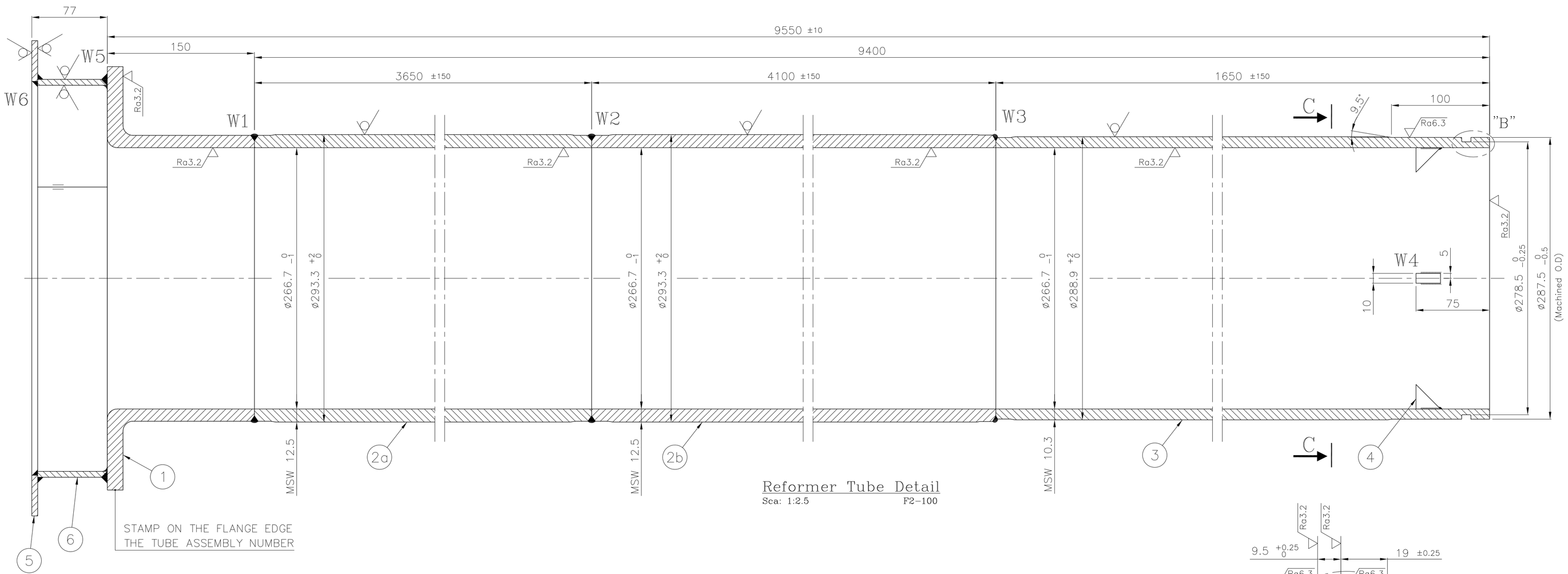
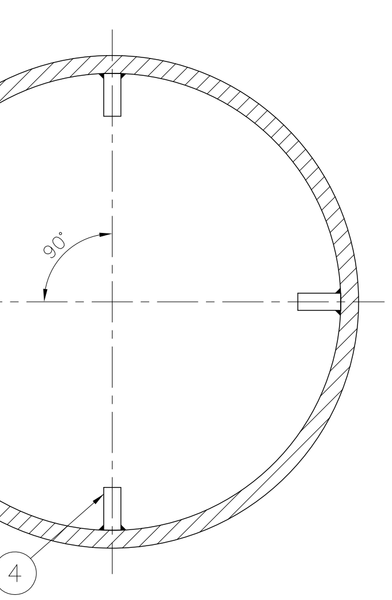


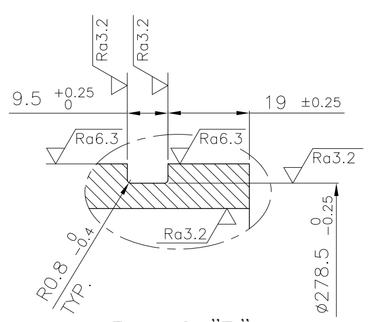
Detail "A"
Sca. 1:1



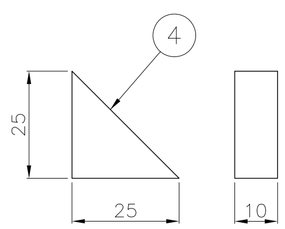
Reformer Tube Detail
Sca: 1:2.5 F2-100



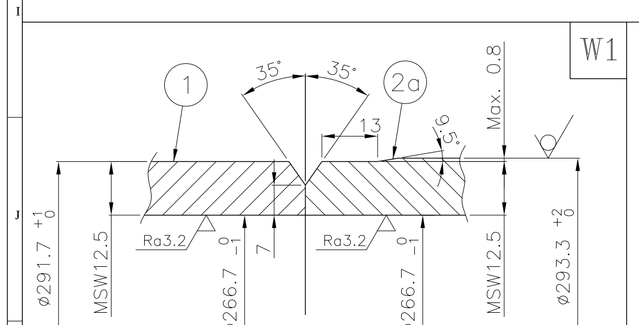
Sec. "C-C"
Sca. 1:2.5

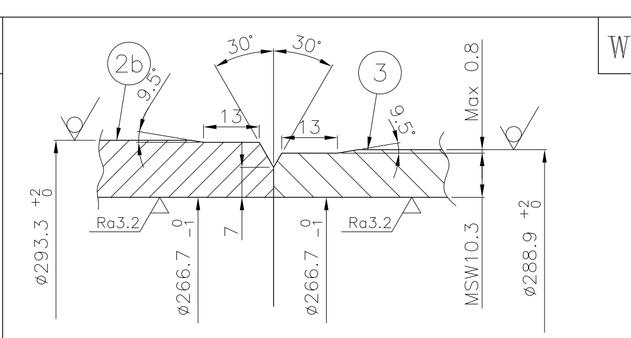


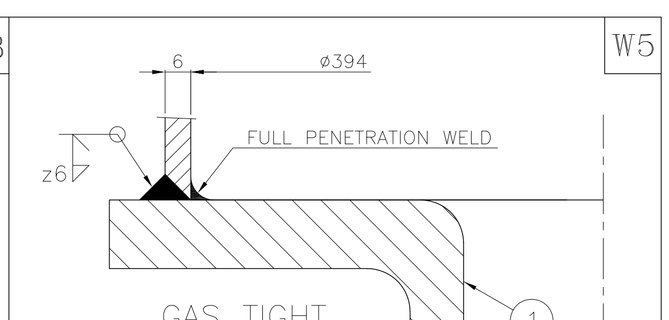
Detail "B"
Sca. 1:1

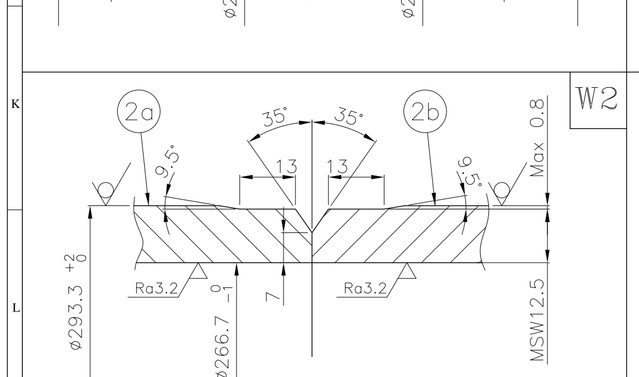


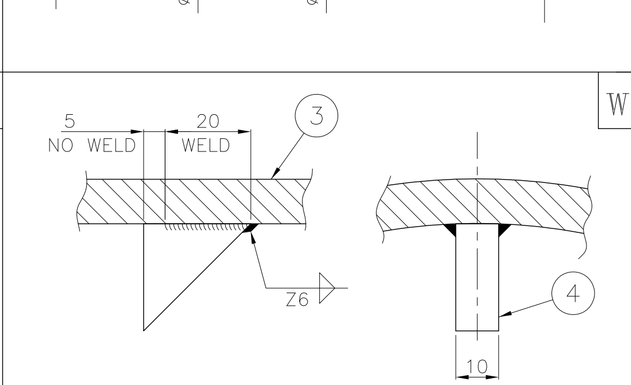
Detail Pos. 4
Sca: 1:1

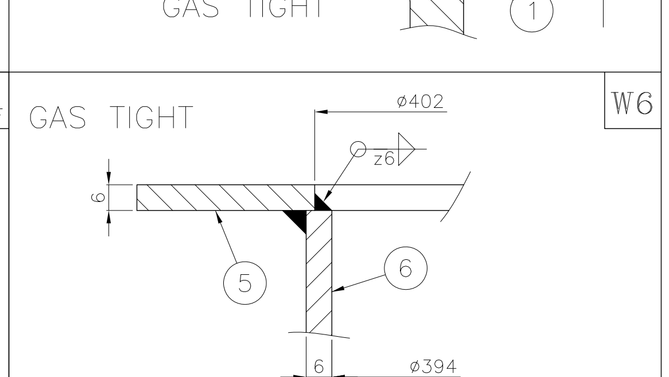












NOTES:

1. MSW=MINIMUM SOUND WALL THICKNESS
2. EACH REFORMER TUBE IS IDENTIFIED BY PROJECT NUMBER, P.O. NUMBER & ASSEMBLY NUMBER STAMPED ON THE EDGE OF THE FLANGE.

Max. 6.3 μmRa (Max. 3.2 μmRa AS CAST)

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

REFERENCE DRAWINGS:

SEE DRAWINGS F2-100 FOR REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	PURPOSE OF ISSUE	PREPARE	CHECK	APPROVE
Z	Jun. 2019	-	AS BUILT	F.K.A. Co.	F.K.A. Co.	F.K.A. Co.
2	Oct. 2015	SIZE OF REFORMER TUBE CHANGED	ISSUED FOR CONSTRUCTION	AFRADI	FAHMPOUR	M.RASTEGAR
1	Jan. 2014		ISSUED FOR CONSTRUCTION	MUSAVI	ABEDI	M.A.EHYAEI

Project: KOWSAR GISD MEGA MODULE PROJECT

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

Contractor: شرکت مهندسی فلز آزما صنایع و متالورژی MMTE MINES & METALS TECHNOLOGICAL ENGINEERING CO.

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	101

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

designation: *REFORMER TUBE DETAILS AND SECTIONS*

drawing-No. *KGMMMR27F2101*

repl. for: repl. by :

SCALE: *1:5* REV.: *Z*

SIZE: *A1* SHEET: *1/1*

CONT. & PROJ. NO: 92/5499

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