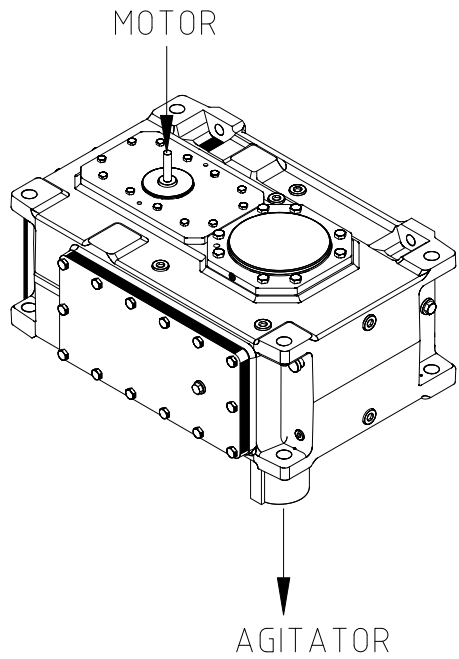
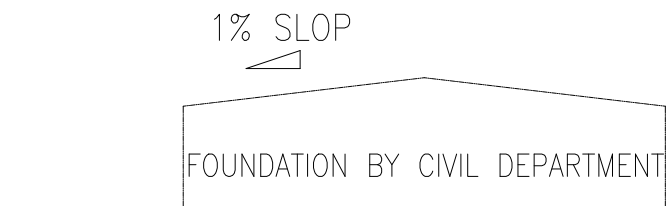
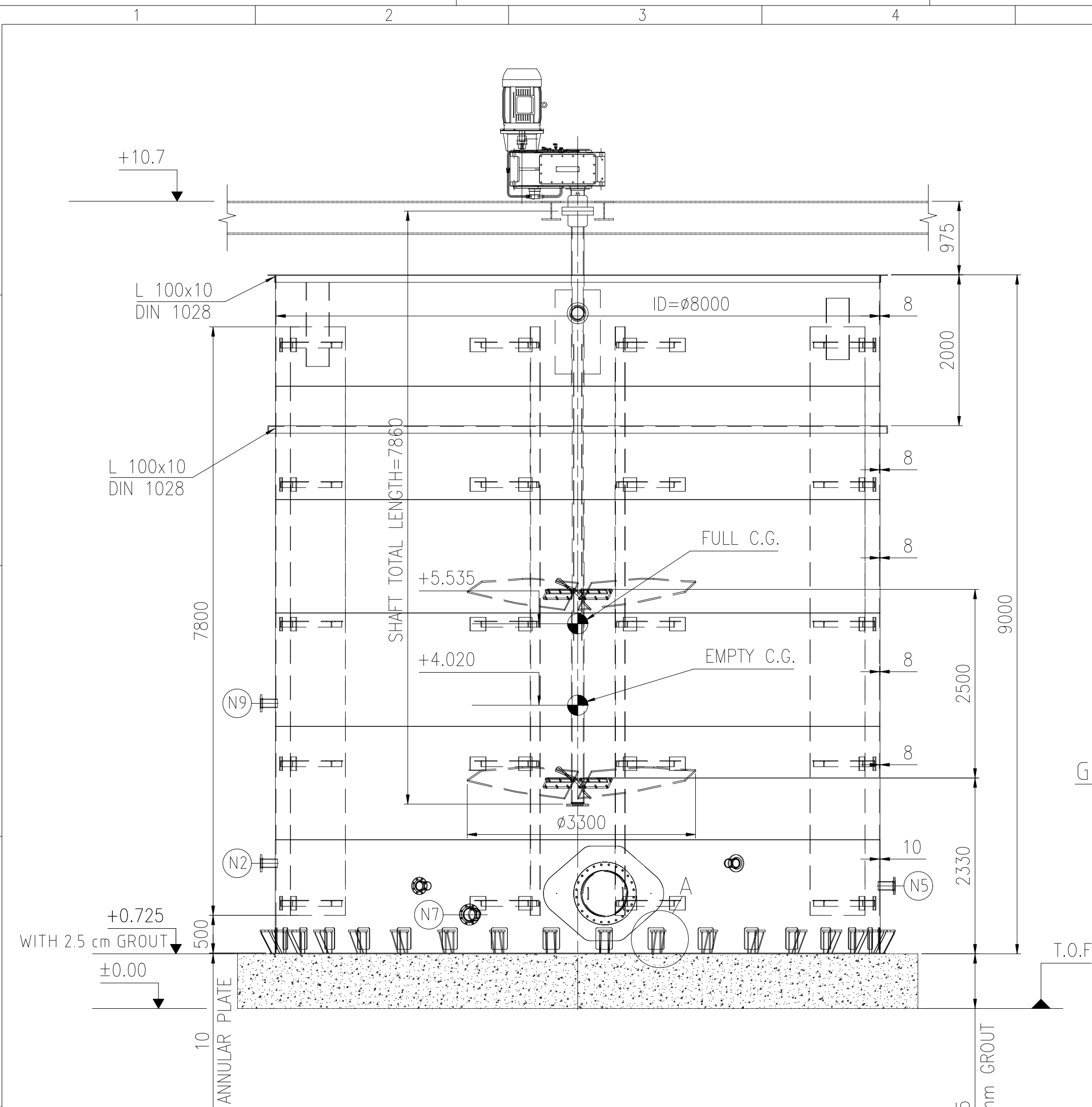
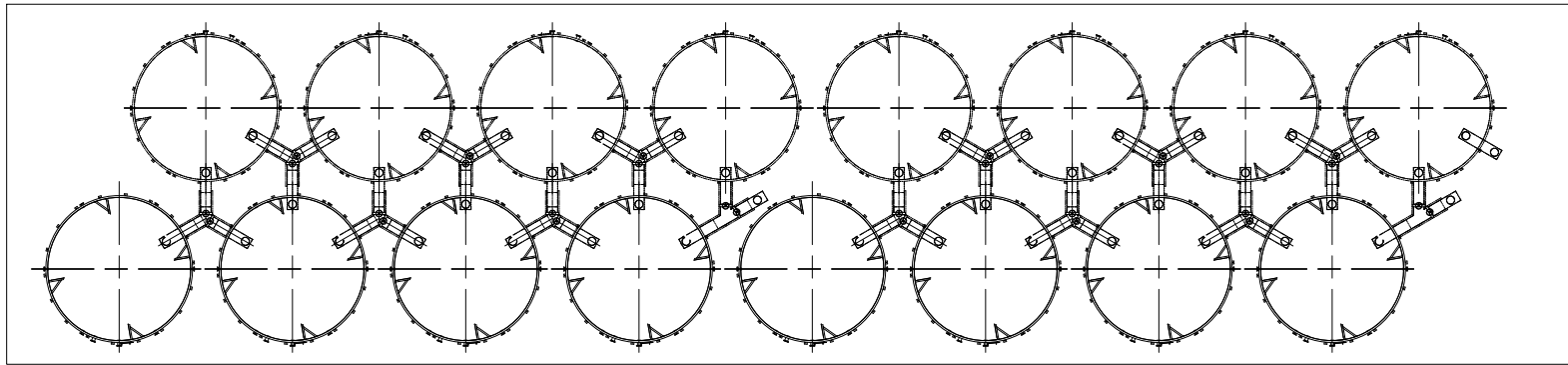


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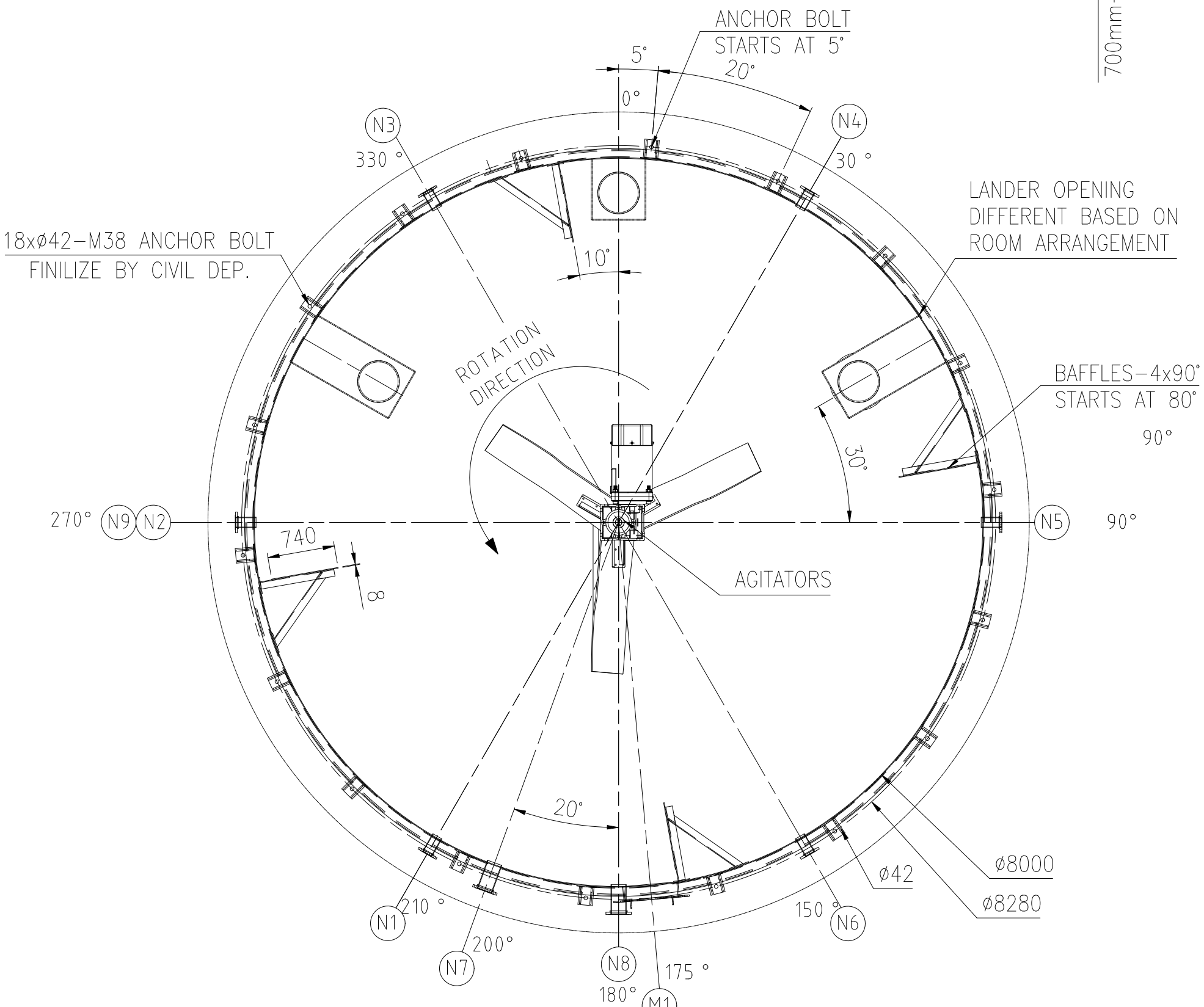
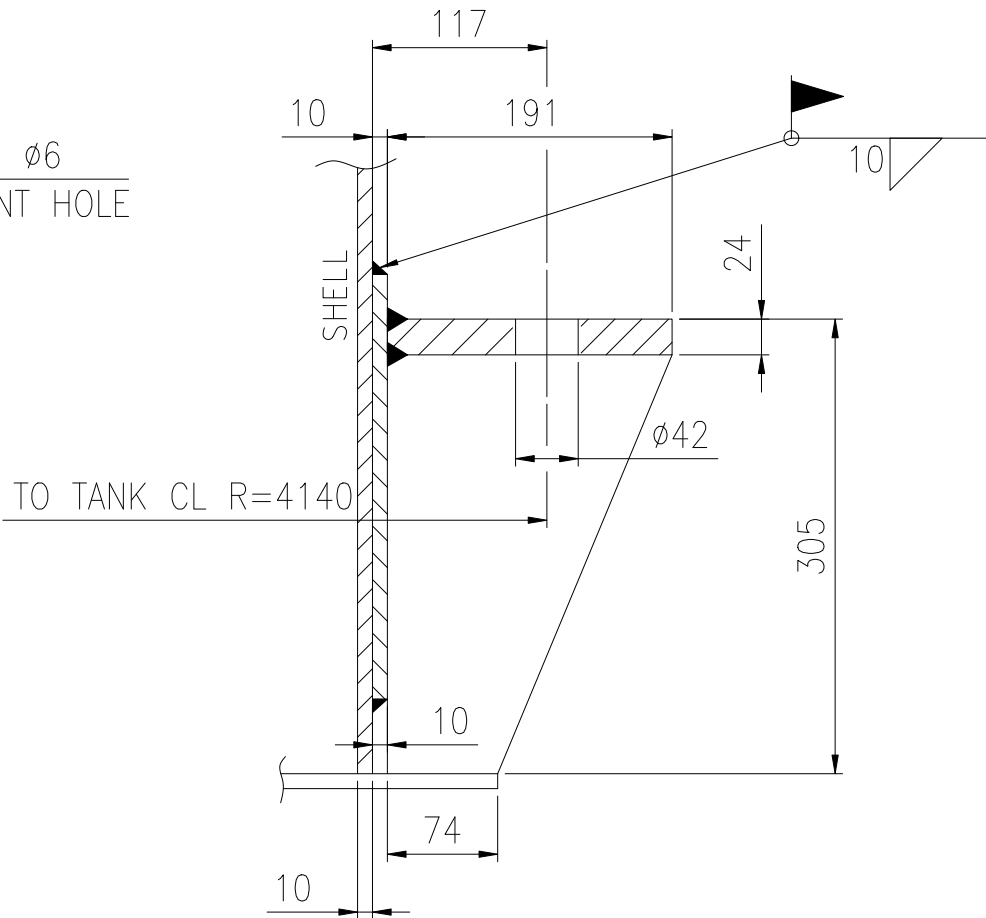
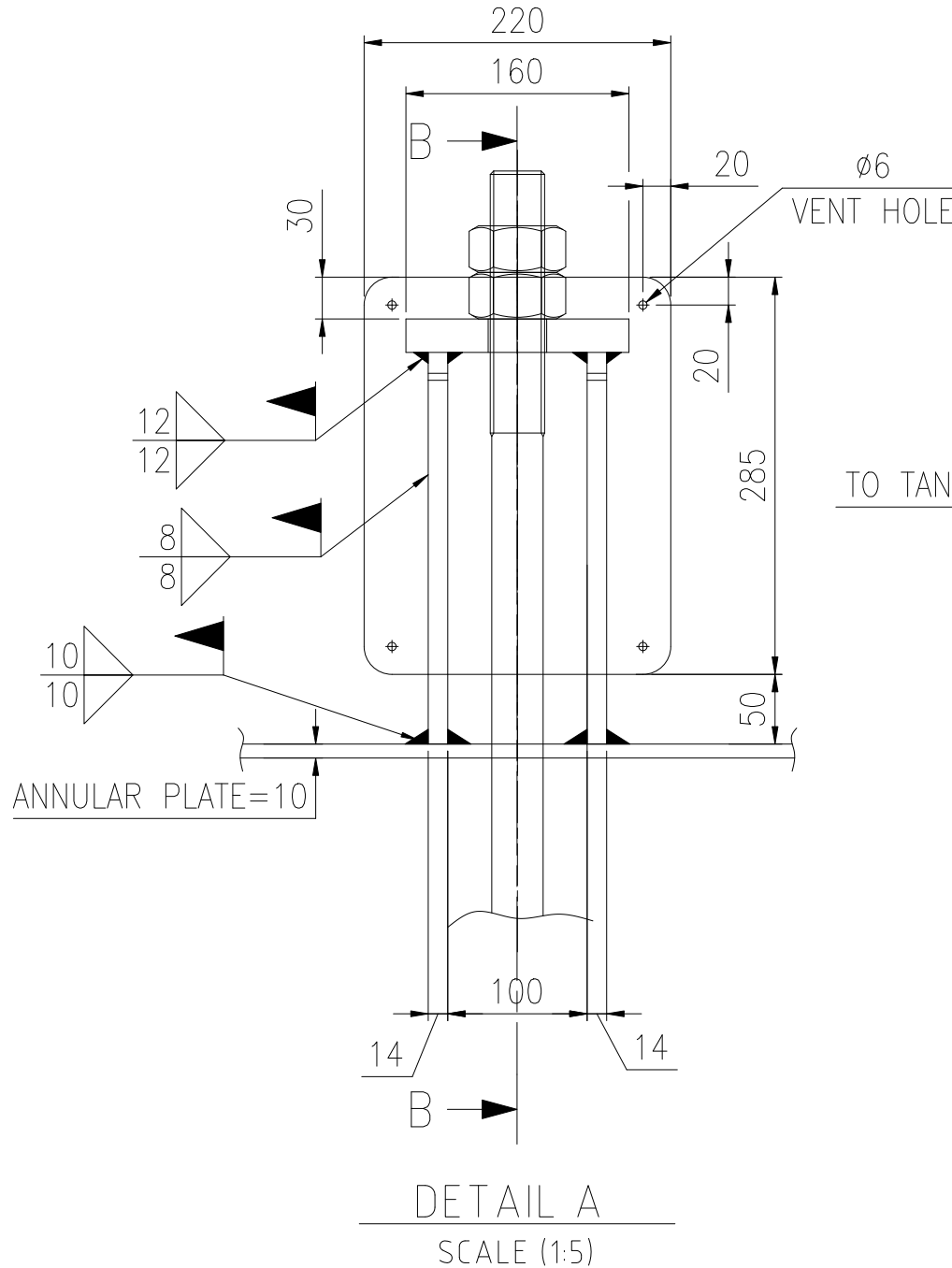
GEARBOX INSTALLATION ORIENTATION



NOTES:

- 1-ALL TOLERANCES FOR C.S. MATERIAL ARE BASE ON ISO13920-CALSS B.
- 2-ALL TOLERANCES FOR SS. MATERIAL ARE BASE ON ISO13920-CALSS G.
- 3-FLANGE HOLES ARE TO STRADDLE FROM THE CENTER LINE.
- 4-THIS TANK SHOULD BE DESIGNED, FABRICATED, CONSTRUCTED, INSPECTED AND TESTED BASED ON API 650 AND 653.
- 5-ALL FLANGES AND BLIND FLANGES NPS 1/2" TO 24" ARE IN ACCORDANCE WITH ASME B 16.5 , AND ASME B 16.47 SERIE "A" FOR LARGER ONES.
- 6-FLANGE FACE FINISHING SHALL BE SMOOTH WITH 125 MICRO INCH MINIMUM TO 250 MICRO INCH MAXIMUM AS PER ASME B 16.5 / 16.47 LATEST EDITION.
- 7-ELEVATION POSITION OF NOZZLES MEASURED FROM BOTTOM OF BASE PLATE.
- 8-MANHOLES AND DRAINS SHALL BE WITH BLIND & PROPER GASKET.
- 9-TWO NAME PLATES SHOULD BE CONSIDERED.
- 10-ALL ANCHOR BOLTS SHALL BE SUPPLIED AND INSTALLED BY CIVIL DEPT. ACCORDING TO THE SPECIFICATIONS MENTIONED IN MECHANICAL DETAIL DRAWINGS.
- 11-ALL MANHOLES SHALL BE EQUIPPED WITH DAVIT AND HINGE.
- 12-ALL REINFORCED PADS TO BE TESTED BY AIR AT 0.5 barg. PRESSURE & AND CHECKED WITH SOAP SUDS FOR LEAK.
- 13-ALL VENT HOLES AND REINFORCING PADS TO BE PLUGGED WITH STIFF GREASE AFTER WELDING AND LEAK TEST.
- 14-BOTTOM SLOP =1/100 FROM CENTER TO QUADRANTS.
- 15-AGITATOR SHALL BE BALANCED BASED ON ISO 21940-11.
- 16-FOUNDATION LOADS ARE BASED ON RING WALL TYPE.
- 17-TOTAL WEIGHT=22.8 TON

HOLD
WILL BE FINALIZED BY VENDOR



DESIGN DATA				
NO.	DESCRIPTION	UNIT	QTY.	NOTE
	TANKS TAG		16	TK-002-004-006-008A/B
	TANK DIAMETER	M	8	
	TANK HEIGHT	M	9	
	ROOF TYPE		NO ROOF	
	OPERATING CAPACITY	M ³	VAR.	
	NET CAPACITY	M ³	450	
	FULL CAPACITY	M ³	452.4	
	APPLICABLE CODE		API 650	
	EXTERNAL PRESSURE	KPa	NO	
	TOP WIND GIRDER TYPE		L 100x10	DIN 1028
	NO. WIND GIRDERS		2	SPAN=2000
	ANNULAR PLATES		YES	
	BOTTOM PLATE PROJECTION	MM	74	
	BOTTOM PLATE THICKNESS	MM	10	ANNULAR
	HYDRO-TEST		YES	AS PER CODE
	LEAK-TEST		YES	AS PER CODE
	NDT		YES	AS PER CODE
	PWHT		YES	AS PER CODE
	MIN DESIGN METAL TEMPERATURE	°C	-20	
	DESIGN TEMPERATURE	°C	40	INSIDE THE BUILDING
	DESIGN PRESSURE	KPa	ATM	
	CORROSION ALLOWANCE	MM	4.5	
	LIQUID		SLURRY	
	SPECIFIC GRAVITY		1.35	
	SHELL MATERIAL		A-283 GR.C	
	FLANGE MATERIAL		A-105 GR.B	EXCEPT MANHOLE
	NOZZLE MATERIAL		A-106 GR.B	EXCEPT MANHOLE
	INSULATION/FIRE PROOF		NA	
	SHELL RUBBER COVER		NA	
	PAINTING SPECIFICATION		AS PER IRITEC PAINTING SPEC.	
	BOLT MATERIAL		A-193 GR. B8M(INTERNAL)/GR. B7M (EXTERNAL)	
	NUT MATERIAL		A-194 GR. 8M(INTERNAL)/GR. 2HM(EXTERNAL)	
	WIND VELOCITY	KPH	145	0 FOR DESIGN -INSIDE
	SEISMIC ZONE		ZONE 3	AS PER SITE CONDITION-SEISMIC ACCELERATION=0.3g
	SNOW LOAD	N	0	INSIDE THE BUILDING
	GRATING TYPE		BELT IN REBAR GRATING	GALVANIZED-50x50
	HANDRAIL		NO	
	AGITATOR POWER	KW	37	HOLD
	AGITATOR BALDE WIDTH	MM	350	
	AGITATOR BLADE HEIGHT	MM	607-552-479	
	AGITATOR BLADE MATERIAL		A-283 GR.C	WITH 6 MM RUBBER
	AGITATOR SHAFT DIAMETER	MM	168	A-240 GR 316L
	AGITATOR BLADE DIAMETER	MM	3300-3000-2600	
	AGITATOR BLADE SPAN	MM	MAX. 3300	
	INTERSTAGE SCREEN		YES	
	INTERSTAGE SCREEN MEDIA		WIRE MESH	S S 304

AGITATOR DRIVE UNIT INFORMATION			
DESCRIPTION	REMARKS		
MOTOR POWER	37 KW		
PROTECTION CLASS	IP 55		
INSULATION CLASS	F		
POLES	8-750 RPM		
VOLTAGE	400 V		
START UP METHOD	VFD		
FRAME SIZE	225		
START TORQUE	TO BE SPECIFIED BY SUPPLIER		
SPEED(DESIGN/RATED)	750/720		
ORIENTATION	HORIZONTAL		
DUTY CLASS	S1		
REQUIRED NUMBER	16(ONE PER TANK)		
GEARBOX TYPE	SOLID SHAFT/HORIZONTAL		
COUPLING	HEIGH SPEED AND LOW SPEED		
TRANSMISSION RATIO	50		




TK-002-004-006-008A/B									
TAG	NOZZLE SERVICE	SIZE	SCH	ELEVATION FROM 1769000	CLASS	TYP	FACE	STD	FLG MATERIAL
N1-N3-N5	PA	4"	40	1925	150	R.F	S.O	ASME B16.5	ASTM A105
N2-N4-N6	PA	4"	40	1625	150	R.F	S.O	ASME B16.5	ASTM A105
N7	DRAIN	6"	40	1245	150	R.F	S.O	ASME B16.5	ASTM A105
M1	MANHOLE	24"	20	1525	150				
N8	OVER FLOW	6"	*	200mm FROM TOP OF THE LANDER No.3	150	R.F	S.O	ASME B16.5	ASTM A105
N9	THERMAL TRANSMITTER	4"	*	4045	150	R.F	S.O	ASME B16.5	ASTM A105

LOADING DATA(IMPORTANCE FACTOR=15)						
LOADING TYPE	WEIGHT(TON)	WIND		SEISMIC		
		SHEAR (kN)	MOMENT(kN.m)	SHEAR (kN)	UPLIFT(kN)	MOMENT(kN.m)
EMPTY	22.8	-	-	96	9	4.93
OPERATION	633	-	-	234.8	232	12000

FOR INFORMATION

SIGNATURE DATE

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)

CLIENT:	CONSULTANT:	CONTRACTOR:
		

PROJECT TITLE :	CLIENT DRAWING No.	REV.
SAQQEZ GOLD PLANT PROJECT	1187200DWGME020	01

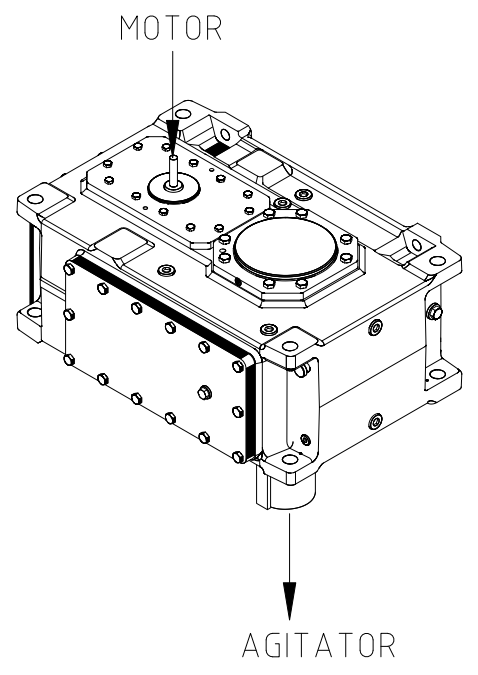
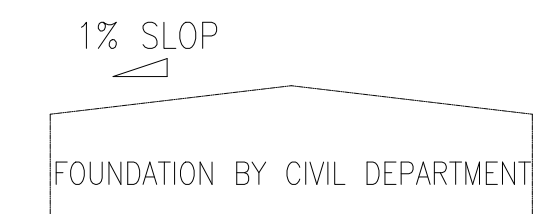
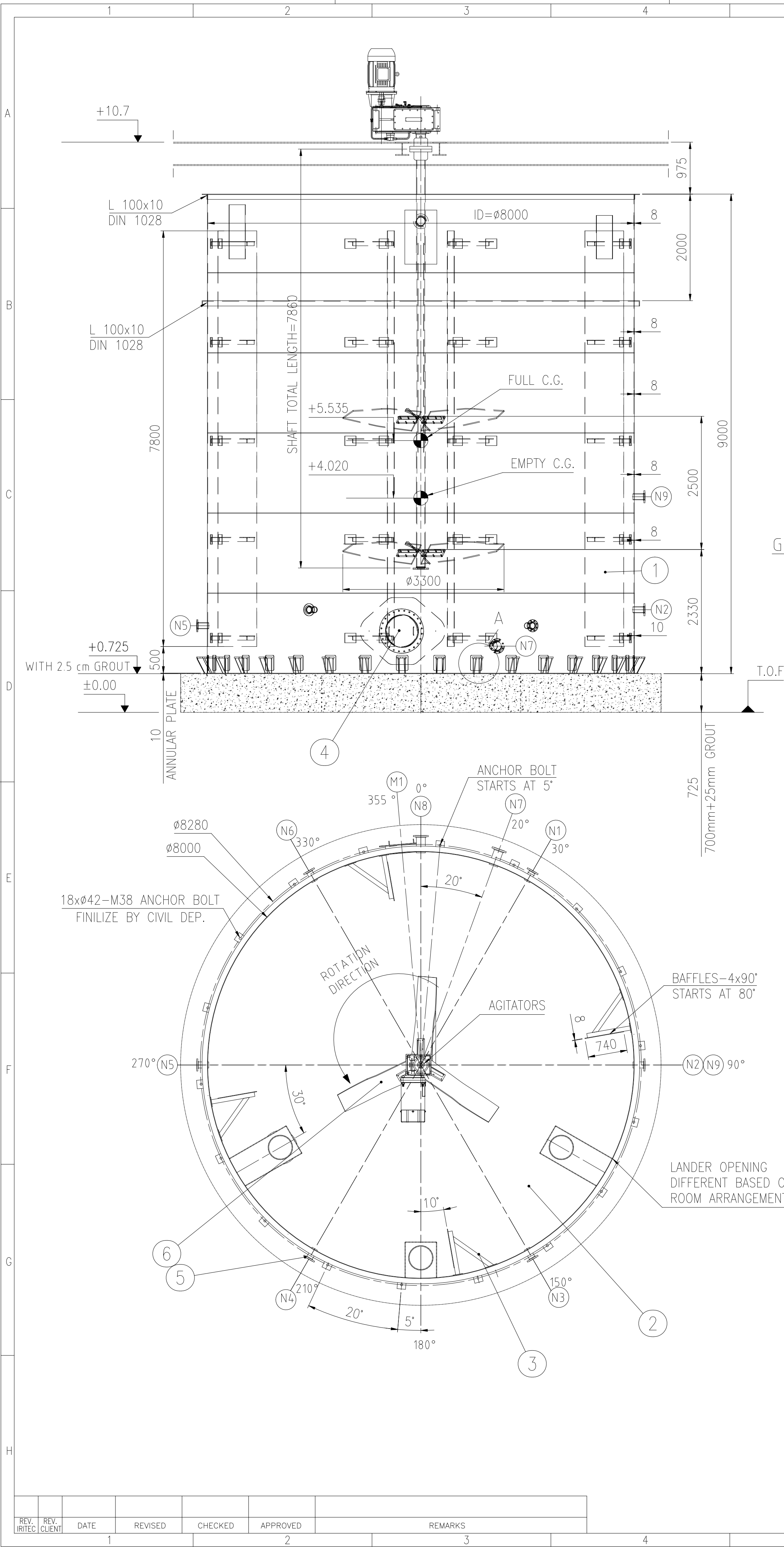
DRAWING TITLE :	GRINDING AND LEACHING AREA
	LEACHING TANK TK-002-004-006-008A/B (QTY.=8)
	BASIC MACHINARY ENGINEERING
	Ø8000x9000 (450 M ³)

IRITEC	ایریتک	SIGNATURE	DATE	SHEET No.	SCALE	SIZE
DESIGNED	F.FARAHANI	03/02/23	1/1	1:50	A1	
DRAWN	N.VESALI	03/02/23				
CHECKED	S.MOHAMMADI	00/00/00				
APPROVED	M.AMINPOUR	03/02/23				
IRITEC DRAWING No.	REV	PROJECT REF. No.				
141810	MA 6M 20 020	B				141810

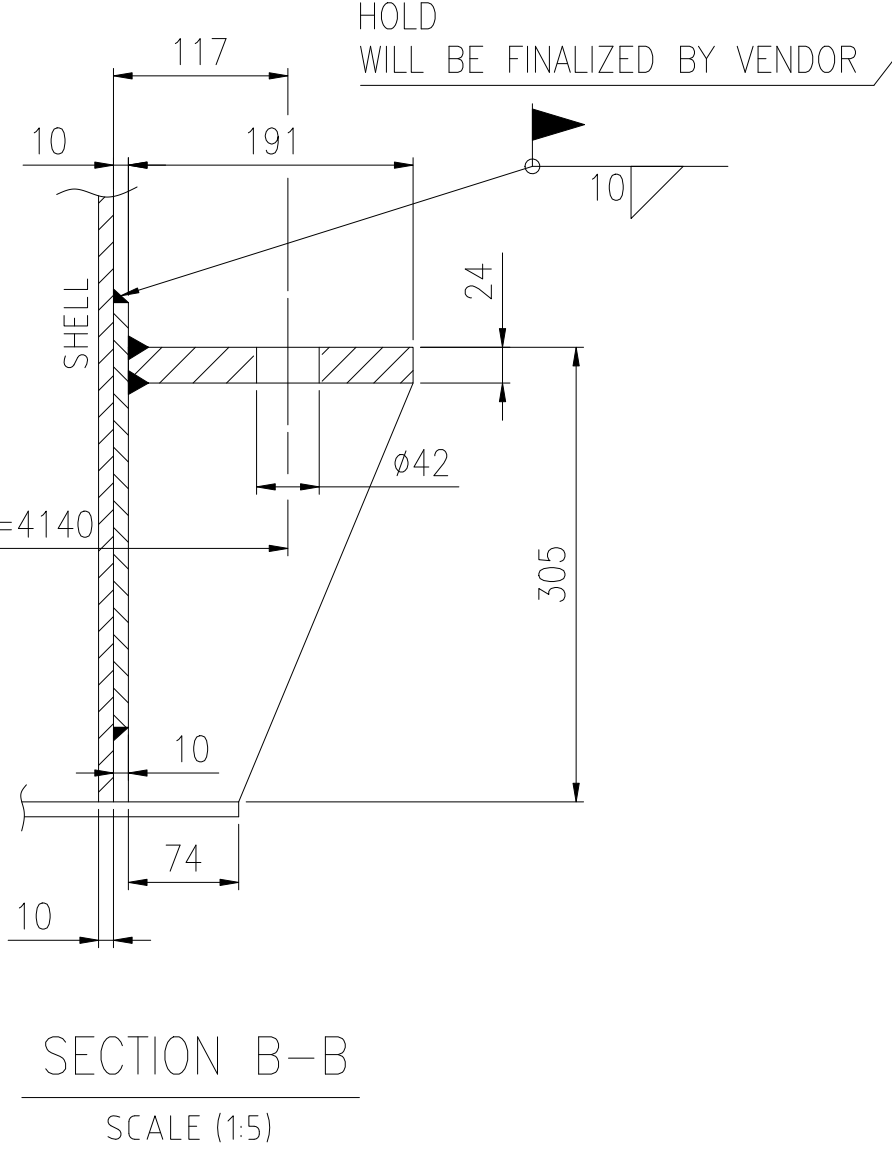
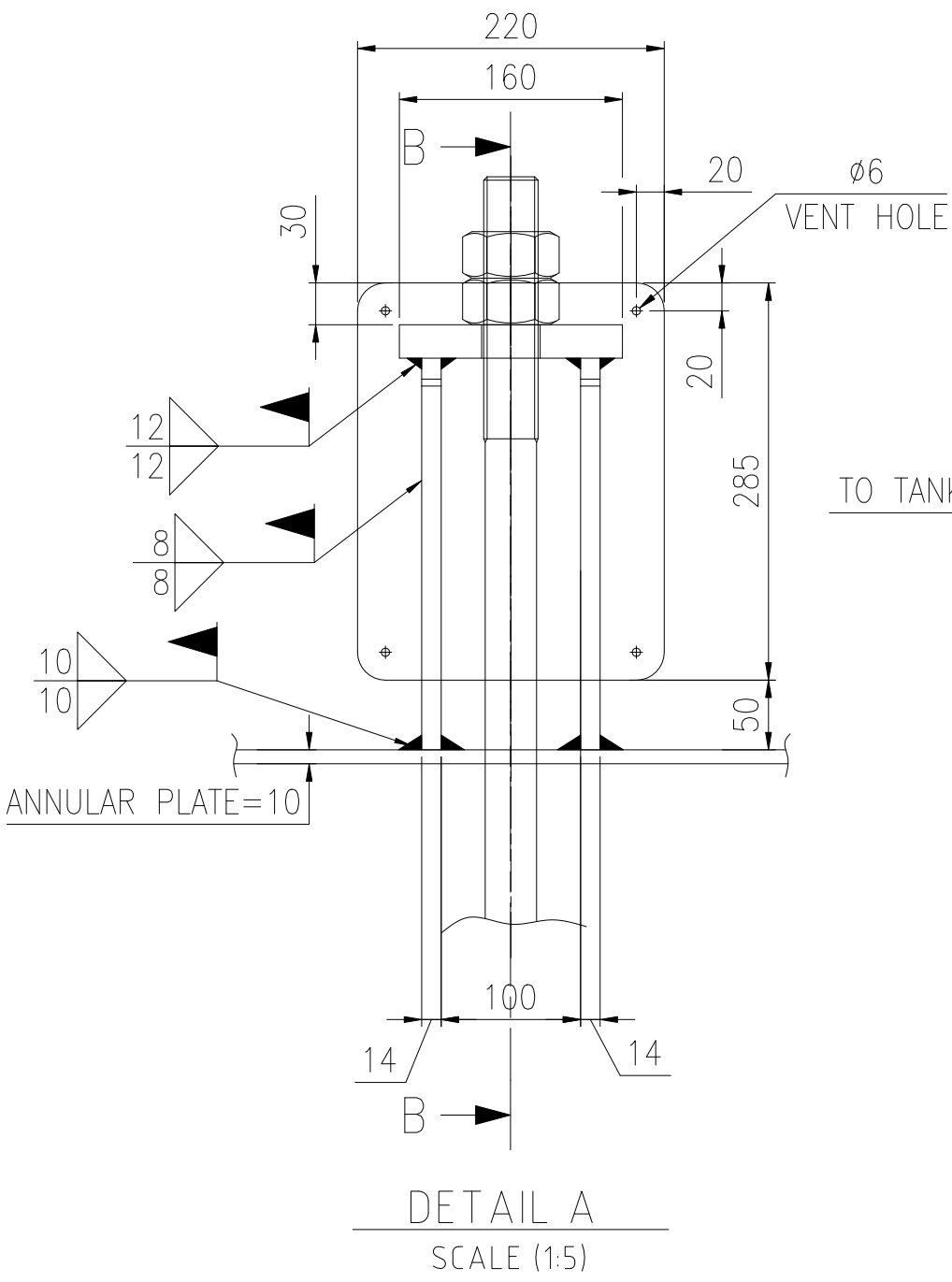
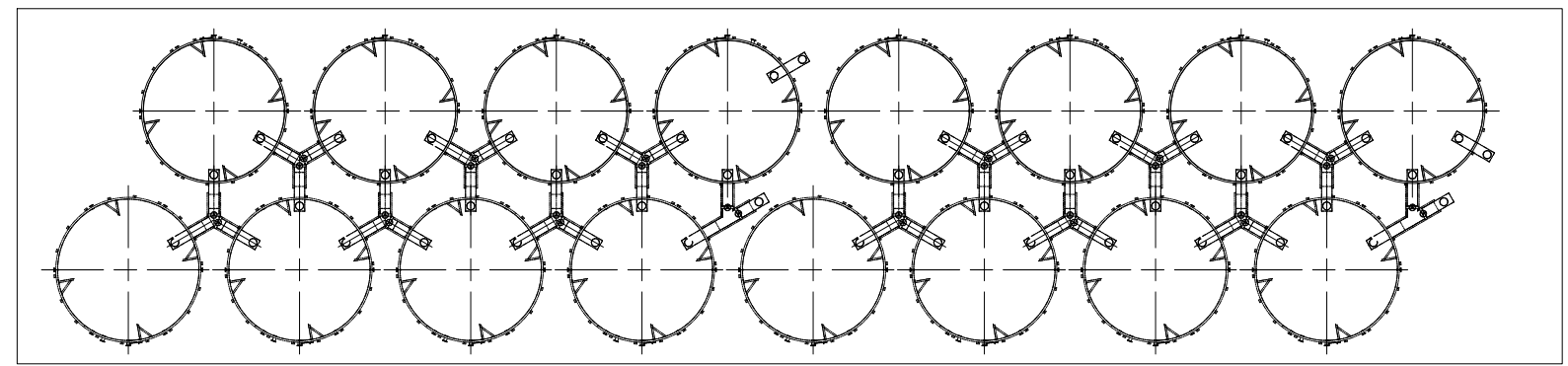
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B	01	1403/09/03	N.VESALI	F.FARAHANI	M.AMINPOUR	GENERAL REVISED
REV.	REV.	DATE	REVISED	CHECKED	APPROVED	REMARKS

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GEARBOX INSTALLATION ORIENTATION

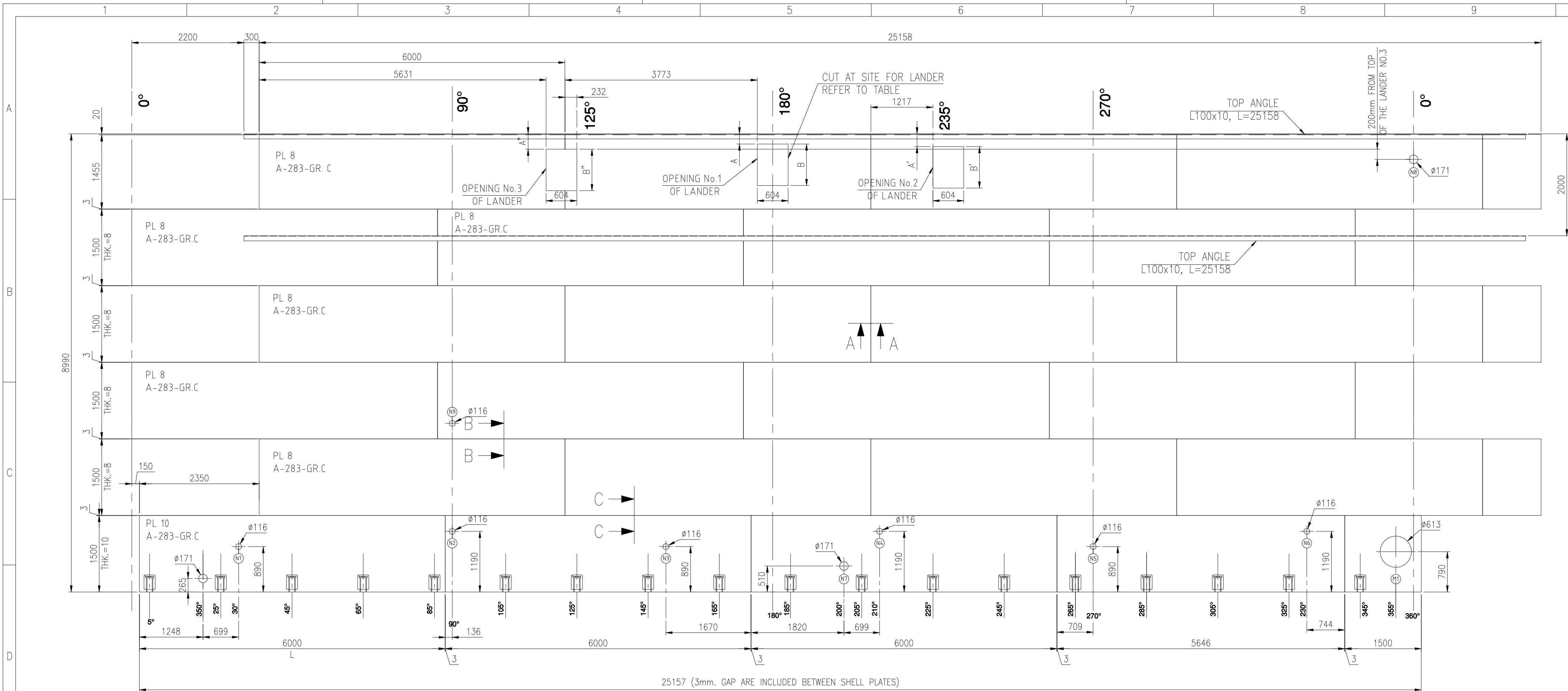


Item	Qty	Designation	Unit	kg	Material	Standard/Ref.	Dwg.
6	1	AGITATOR SUPPORT	145	A283-gr.C	141810MA6M20036		
5	1	NOZZLE DETAILS	827	A283-gr.C	141810MA6M20035		
4	1	MANHOLE	175	A283-gr.C	141810MA6M20034		
3	1	BAFFLE DETAILS	1870	A283-gr.C	141810MA6M20033		
2	1	BOTTOM PLATE DETAIL	4152	A-283-gr.C	141810MA6M20031		
1	1	PLATE ARRANGEMENT	15570	A283-gr.C	141810MA6M20032		
TOTAL WEIGHT=22739 kg							

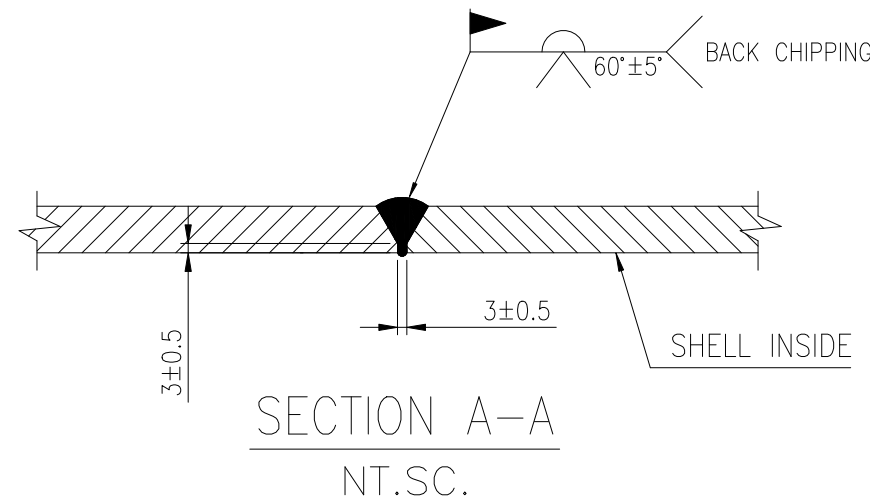
- NOTES:
- 1-ALL TOLERANCES FOR C.S. MATERIAL ARE BASE ON ISO13920-CALSS B.
 - 2-ALL TOLERANCES FOR SS. MATERIAL ARE BASE ON ISO13920-CALSS G.
 - 3-FLANGE HOLES ARE TO STRADDLE FROM THE CENTER LINE.
 - 4-THIS TANK SHOULD BE DESIGNED, FABRICATED, CONSTRUCTED, INSPECTED AND TESTED BASED ON API 650 AND 653.
 - 5-ALL FLANGES AND BLIND FLANGES NPS 1/2" TO 24", ARE IN ACCORDANCE WITH ASME B 16.5 , AND ASME B 16.47 SERIE "A" FOR LARGER ONES.
 - 6-FLANGE FACE FINISHING SHALL BE SMOOTH WITH 125 MICRO INCH MINIMUM TO 250 MICRO INCH MAXIMUM AS PER ASME B 16.5 / 16.47 LATEST EDITION.
 - 7-ELEVATION POSITION OF NOZZLES MEASURED FROM BOTTOM OF BASE PLATE.
 - 8-MANHOLE AND DRAINS SHALL BE WITH BLIND & PROPER GASKET.
 - 9-TWO NAME PLATES SHOULD BE CONSIDERED.
 - 10-ALL ANCHOR BOLTS SHALL BE SUPPLIED AND INSTALLED BY CIVIL DEPT. ACCORDING TO THE SPECIFICATIONS MENTIONED IN MECHANICAL DETAIL DRAWINGS.
 - 11-ALL MANHOLES SHALL BE EQUIPPED WITH DAVIT AND HINGE.
 - 12-ALL REINFORCED PADS TO BE TESTED BY AIR AT 0.5 barg. PRESSURE & AND CHECKED WITH SOAP SUDS FOR LEAK.
 - 13-ALL VENT HOLES AND REINFORCING PADS TO BE PLUGGED WITH STIFF GREASE AFTER WELDING AND LEAK TEST.
 - 14-BOTTOM SLOP =1/100 FROM CENTER TO QUADRANTS.
 - 15-AGITATOR SHALL BE BALANCED BASED ON ISO 21940-11.
 - 16-FOUNDATION LOADS ARE BASED ON RING WALL TYPE.
 - 17-TOTAL WEIGHT=22.8 TON

DESIGN DATA									
NO.	DESCRIPTION	UNIT	QTY.	NOTE					
	TANKS TAG		16	TK-003-005-007-009A/B					
	TANK DIAMETER	M	8						
	TANK HEIGHT	M	9						
	ROOF TYPE		NO ROOF						
	OPERATING CAPACITY	M ³	VAR						
	NET CAPACITY	M ³	450						
	FULL CAPACITY	M ³	452.4						
	APPLICABLE CODE		API 650						
	EXTERNAL PRESSURE	KPa	NO						
	TOP WIND GIRDER TYPE		L 100x10	DIN 1028					
	NO. WIND GIRDERS		2	SPAN=2000					
	ANNULAR PLATES		YES						
	BOTTOM PLATE PROJECTION	MM	74						
	BOTTOM PLATE THICKNESS	MM	10	ANNULAR					
	HYDRO-TEST		YES	AS PER CODE					
	LEAK-TEST		YES	AS PER CODE					
	NDT		YES	AS PER CODE					
	PWHT		YES	AS PER CODE					
	MIN DESIGN METAL TEMPERATURE	°C	-20						
	DESIGN TEMPERATURE	°C	40	INSIDE THE BUILDING					
	DESIGN PRESSURE	KPa	ATM						
	CORROSION ALLOWANCE	MM	4.5						
	LIQUID		SLURRY						
	SPECIFIC GRAVITY		1.35						
	SHELL MATERIAL		A-283 GR.C						
	FLANGE MATERIAL		A-105 GR.B	EXCEPT MANHOLE					
	NOZZLE MATERIAL		A-106 GR.B	EXCEPT MANHOLE					
	INSULATION/FIRE PROOF		NA						
	SHELL RUBBER COVER		NA						
	PAINTING SPECIFICATION		AS PER IRITEC PAINTING SPEC.						
	BOLT MATERIAL		A-193 GR. B8M(INTERNAL)/GR. B7M (EXTERNAL)						
	NUT MATERIAL		A-194 GR. 8M(INTERNAL)/GR. 2HM(EXTERNAL)						
	WIND VELOCITY	KPH	145	0 FOR DESIGN -INSIDE					
	SEISMIC ZONE		ZONE 3	AS PER SITE CONDITION- SEISMIC ACCELERATION=0.3g					
	SNOW LOAD	N	0	INSIDE THE BUILDING					
	GRATING TYPE		BELT IN REBAR GRATING	GALVANIZED-50x50					
	HANDRAIL		NO						
	AGITATOR POWER	KW	37	HOLD					
	AGITATOR BALD WIDTH	MM	350						
	AGITATOR BLADE HEIGHT	MM	607-552-479						
	AGITATOR BLADE MATERIAL		A-283 GR.C	WITH 6 MM RUBBER					
	AGITATOR SHAFT DIAMETER	MM	168	A-240 GR 316L					
	AGITATOR BLADE DIAMETER	MM	3300-3000-2600						
	AGITATOR BLADE SPAN	MM	MAX. 3300						
	INTERSTAGE SCREEN		YES						
	INTERSTAGE SCREEN MEDIA		WIRE MESH	S.S 304					
AGITATOR DRIVE UNIT INFORMATION									
DESCRIPTION		REMARKS							
MOTOR POWER		37 KW							
PROTECTION CLASS		IP 55							
INSULATION CLASS		F							
POLES		8-750 RPM							
VOLTAGE		400 V							
START UP METHOD		VFD							
FRAME SIZE		225							
START TORQUE		TO BE SPECIFIED BY SUPPLIER							
SPEED(DESIGN/RATED)		750/720							
ORIENTATION		HORIZONTAL							
DUTY CLASS		S1							
REQUIRED NUMBER		16(ONE PER TANK)							
GEARBOX TYPE		SOLID SHAFT/HORIZONTAL							
COUPLING		HIGH SPEED AND LOW SPEED							
TRANSMISSION RATIO		50							
TK-002-004-006-008A/B									
TAG	NOZZLE SERVICE	SIZE	SCH	ELEVATION FROM 1709000	CLASS	TYP	FACE	STD	FLG MATERIAL
N1-N3-N5	PA	4"	40	1925	150	R.F	S.O	ASME B16.5	ASTM A105
N2-N4-N6	PA	4"	40	1625	150	R.F	S.O	ASME B16.5	ASTM A105
N7	DRAIN	6"	40	1245	150	R.F	S.O	ASME B16.5	ASTM A105
M1	MANHOLE	24"	20	1525	150				
N8	OVER FLOW	6"	*	200mm FROM TOP OF THE LANDER No.3	150	R.F	S.O	ASME B16.5	ASTM A105
N9	THERMAL TRANSMITTER	4"	*	4045	150	R.F	S.O	ASME B16.5	ASTM A105
LOADING DATA(IMPORTANCE FACTOR=15)									
LOADING TYPE	WEIGHT(TON)	WIND		SEISMIC					
		SHEAR (kN)	MOMENT(kN.m)	SHEAR (kN)	UPLIFT(kN)	MOMENT(kN.m)			
EMPTY	22.8	-	-	96	9	4.93			
OPERATION	633	-	-	234.8	232	12000			
FOR INFORMATION									
SIGNATURE DATE									
KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)									
CLIENT:		CONSULTANT:		CONTRACTOR:					
PROJECT TITLE :		SAQQEZ GOLD PLANT PROJECT		CLIENT DRAWING No.		1187200DWGME028		REV. 00	
DRAWING TITLE :		GRINDING AND LEACHING AREA LEACHING TANK TK-003-005-007-009A/B (QTY.=8) GENERAL ASSEMBLY ø8000x9000 (450 M ³)							
		SIGNATURE		DATE		SHEET No.		SCALE	
DESIGNED		F.FARAHANI		03/09/05		1/1		1:50	
DRAWN		N.VESALI		03/09/05		PROJECT REF. NO.			
CHECKED		S.MOHAMMADI		03/09/05		141810			
APPROVED		M.AMINPOUR		03/09/05					
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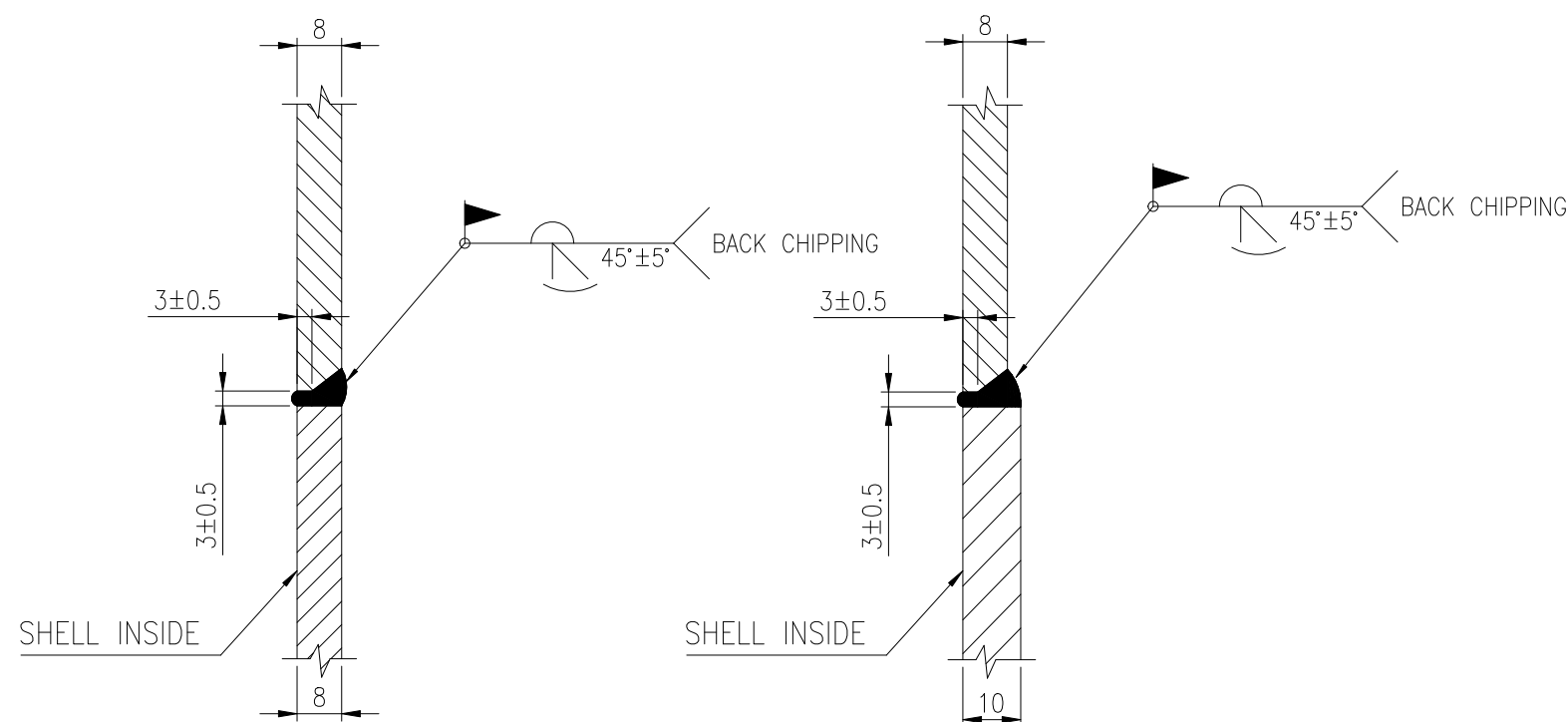
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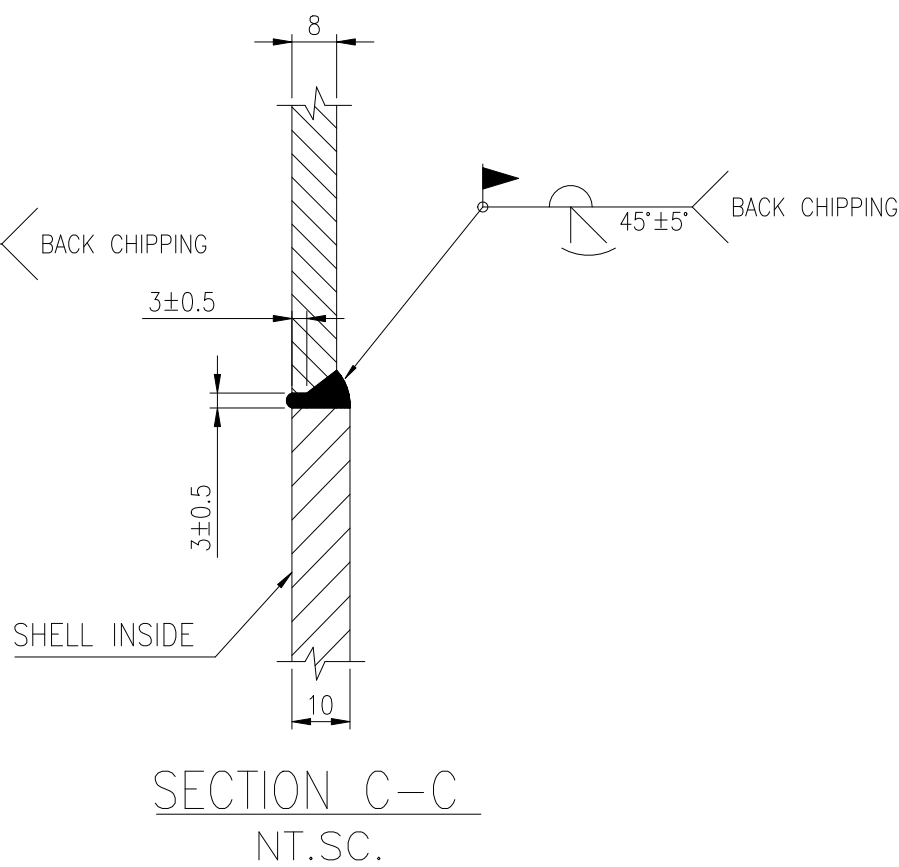
DEVELOPMENT OUT SIDE VIEW TK-003-005-007-009A/B



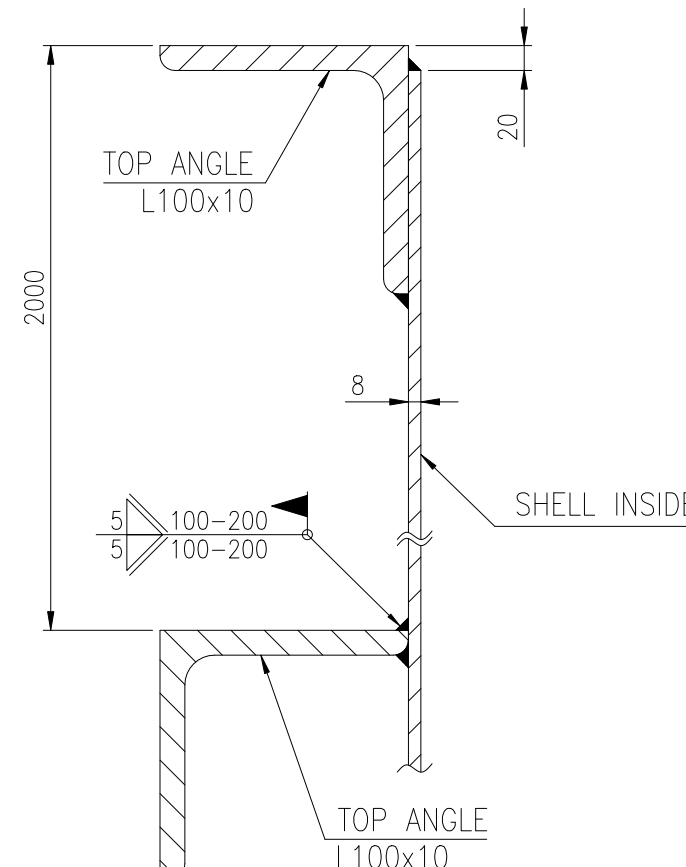
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NT.SC.



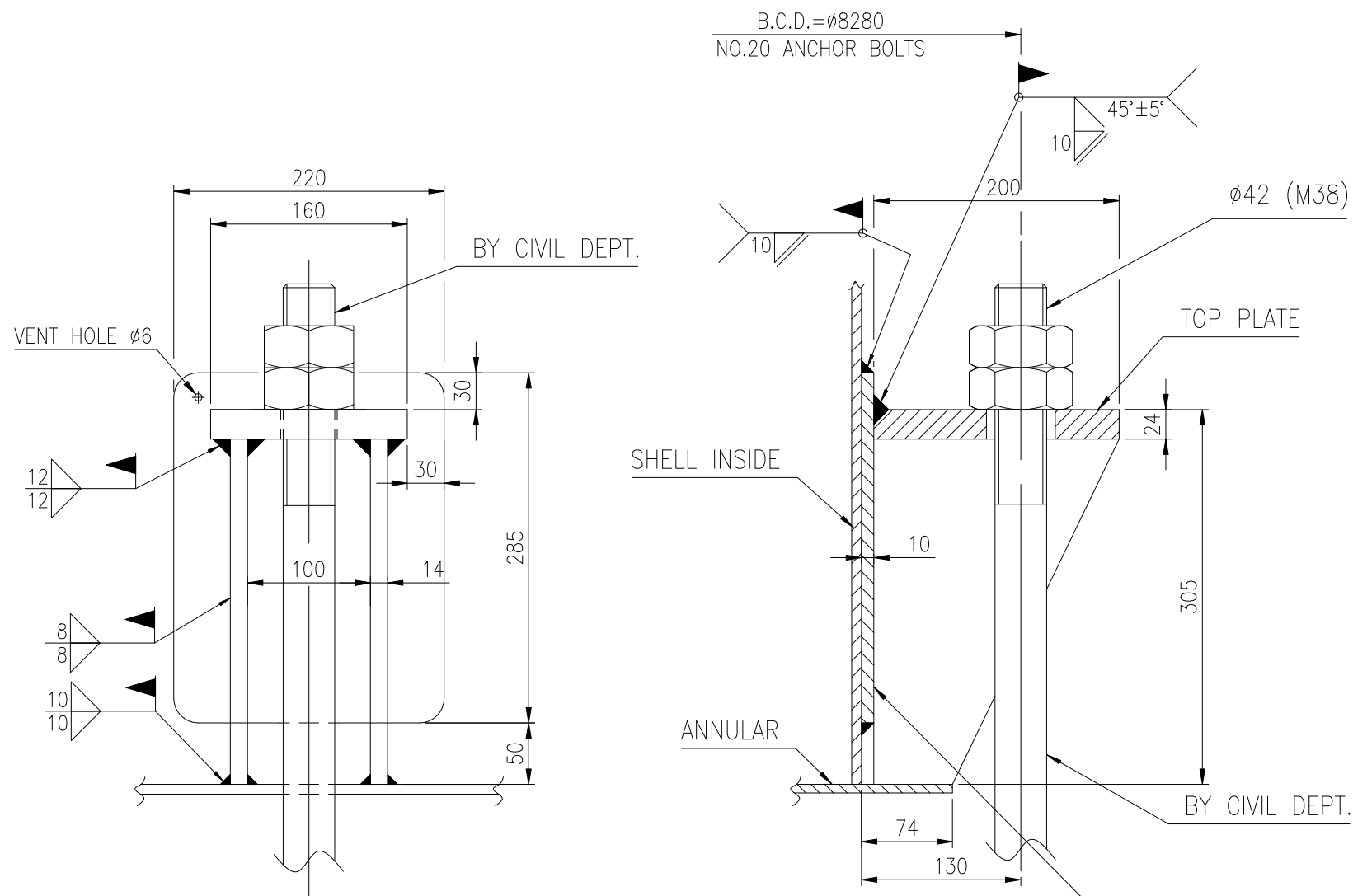
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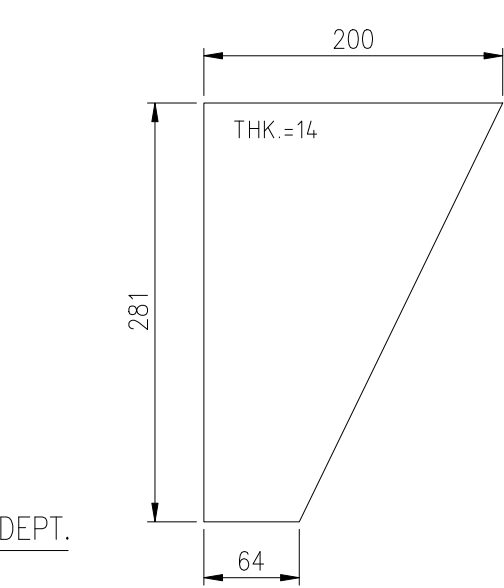
SECTION C-C
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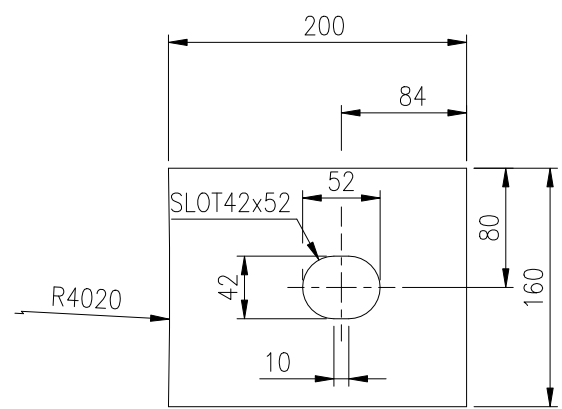
TOP GIRDER
SCALE 1:5



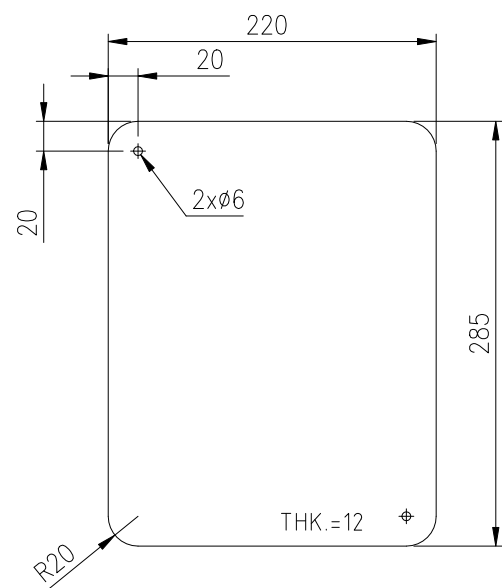
ANCHOR CHAIR DETAIL
SCALE 1:5



ANCHOR CHAIR RIB



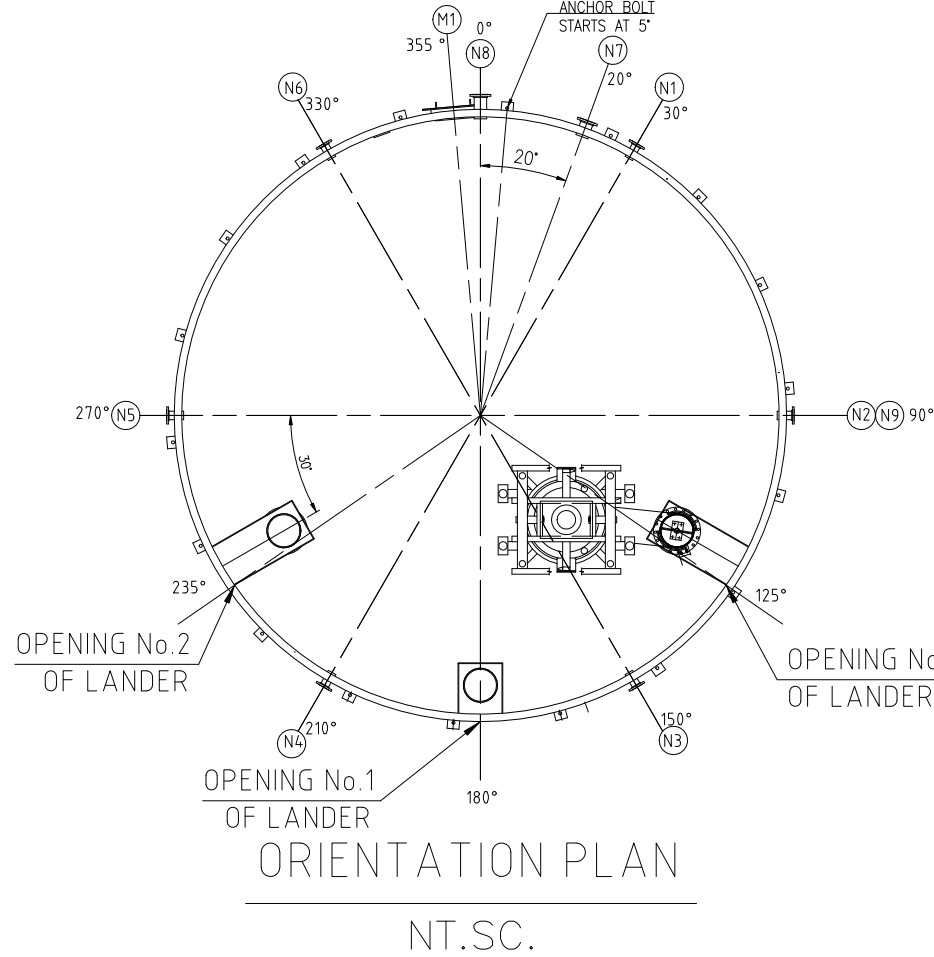
TOP PLATE



ANCHOR CHAIR PAD

TABLE OF CUTTING

	OPENING 1 OF LUNDER		OPENING 2 OF LUNDER		OPENING 3 OF LUNDER	
	A	B	A'	B'	A''	B''
TK-003A	100	1015	-	-	200	875
TK-003B	100	1015	-	-	200	875
TK-005A	300	1015	200	1015	400	875
TK-005B	300	1015	200	1015	400	875
TK-007A	500	1015	400	1015	600	875
TK-007A	500	1015	400	1015	600	875
TK-009A	700	1015	600	1015	800	1015
TK-009B	700	1015	600	1015	800	1015



NT.SC.

FOR INFORMATION

SIGNATURE DATE

- NOTES:
- ALL LENGTH OF NOZZLE HOLES SPACING ARE MEASURED ON OUTSIDE SHELL.
 - ANCHOR CHAIR SPACING ARE THE SAME.
 - ALL LENGTH OF ANCHOR CHAIR SPACING ARE MEASURED ON OUTSIDE SHELL.
 - ALL NOZZLES HOLES SHALL BE CUT AT SITE AFTER ASSEMBLY AND ERECTION
 - ANCHOR BOLTS ARE DONE BY OTHERS.
 - ALL VENT HOLES OF PAD PLATES SHALL BE PLUGGED WITH STIFF GREASE AFTER FINISH WELDING AND TEST.
 - MIDDLE OF THE ANCHOR CHAIR PADS SHALL BE ON THE CENTER OF THE ANCHOR BOLTS.
 - TOTAL WEIGHT: 15570kg

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMD)C

CLIENT: 	CONSULTANT: 	CONTRACTOR: 	
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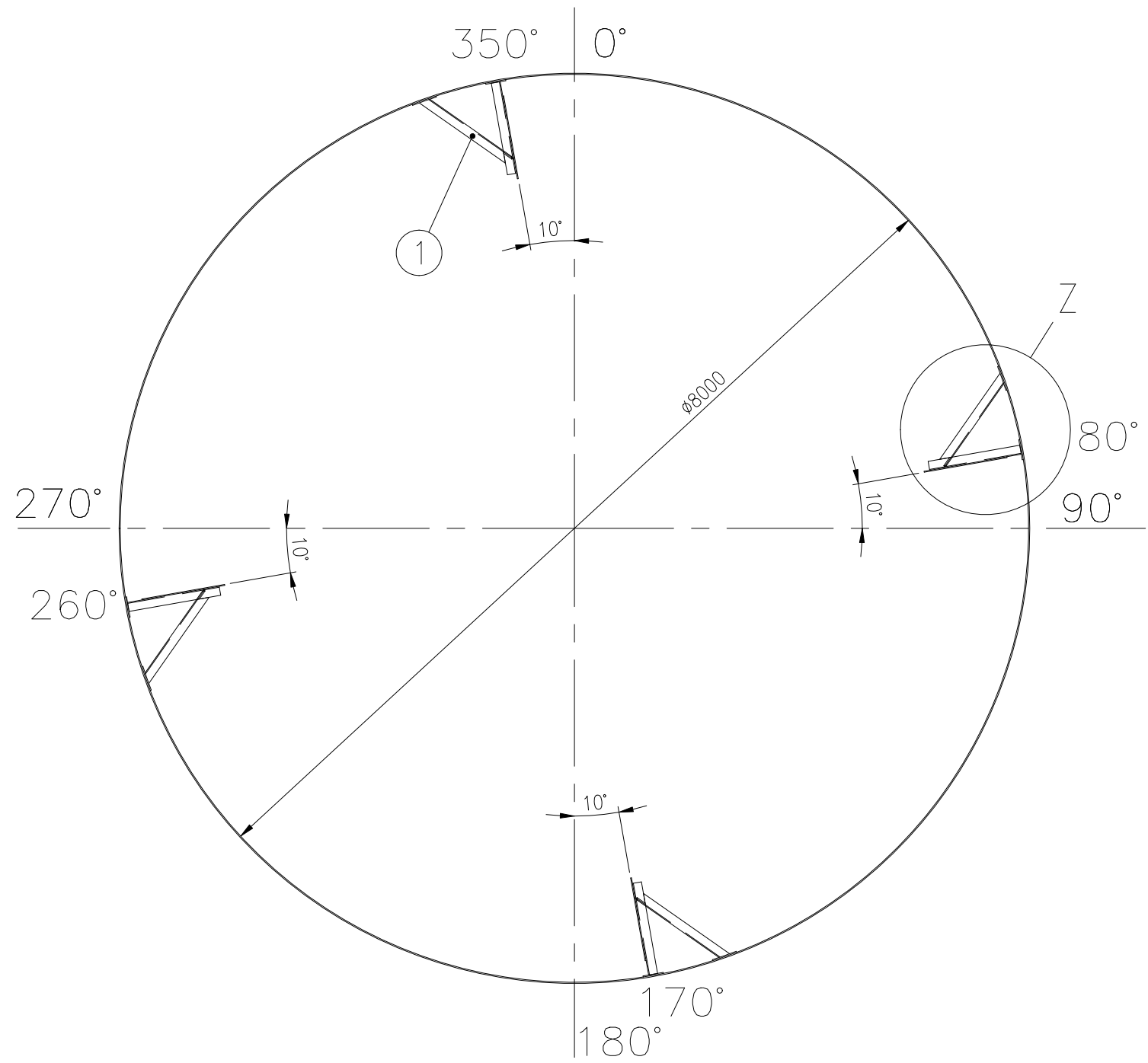
PROJECT TITLE : SAQQEZ GOLD PLANT PROJECT	CLIENT DRAWING No.: 1187200DWGME032	REV.: 01
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DRAWING TITLE : FIX EQUIPMENT DESIGN LEACHING TANK TK-003-005-007-009A/B (QTY.=8) SHELL PLATE DEVELOPMENTS DETAILS ø8000x9000 (450 M ²)	SIGNATURE F.FARAHANI 03/02/23 1/1 1:50 A1
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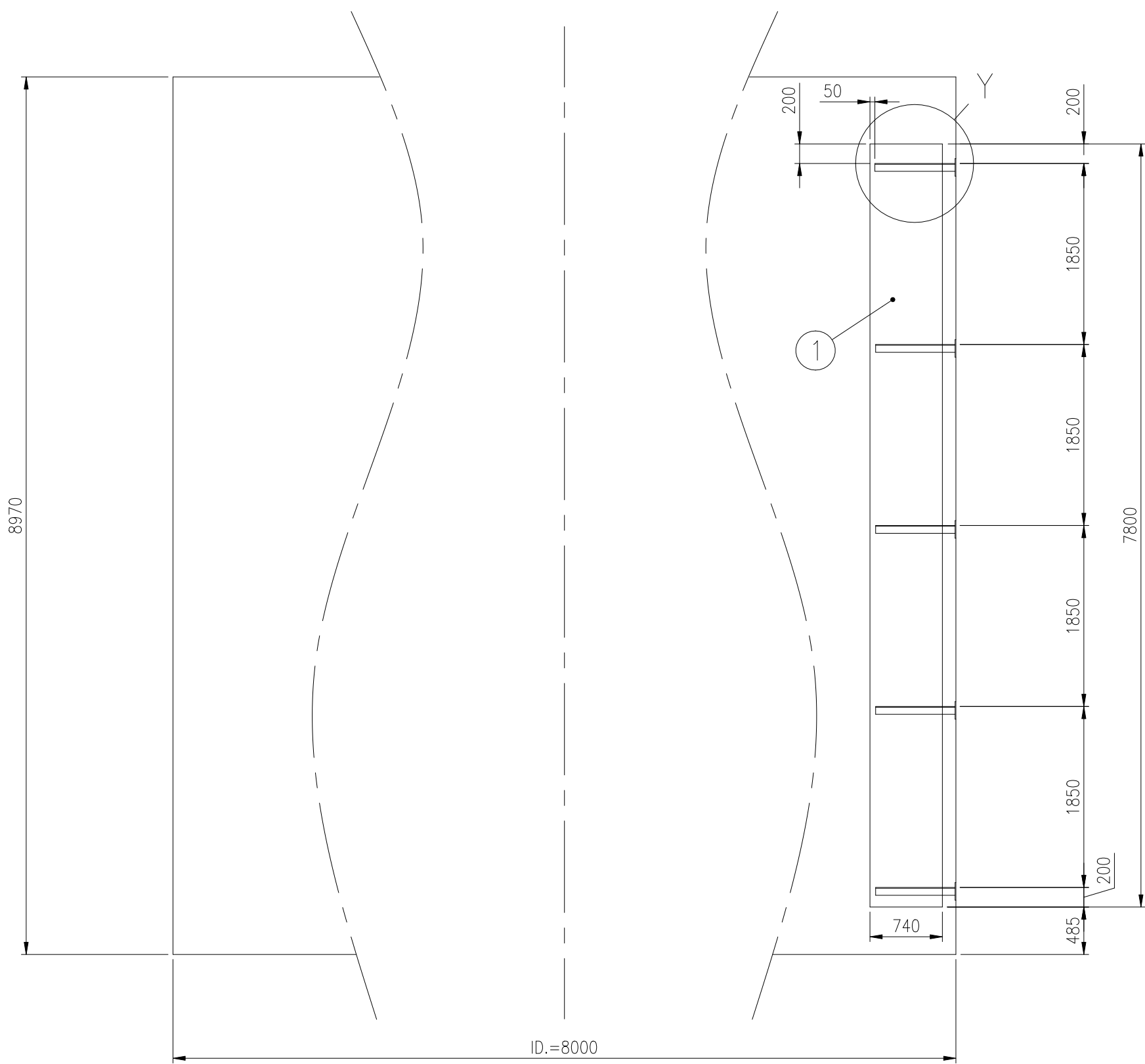
IRITEC IRAN INTERNATIONAL ENGINEERING COMPANY شرکت بین المللی مهندسی ایران	DESIGNED F.FARAHANI 03/02/23 1/1 1:50 A1	DRAWN N.VESALI 03/02/23 00/00/00 03/02/23	PROJECT REF. NO.: 141810
---	---	---	-----------------------------

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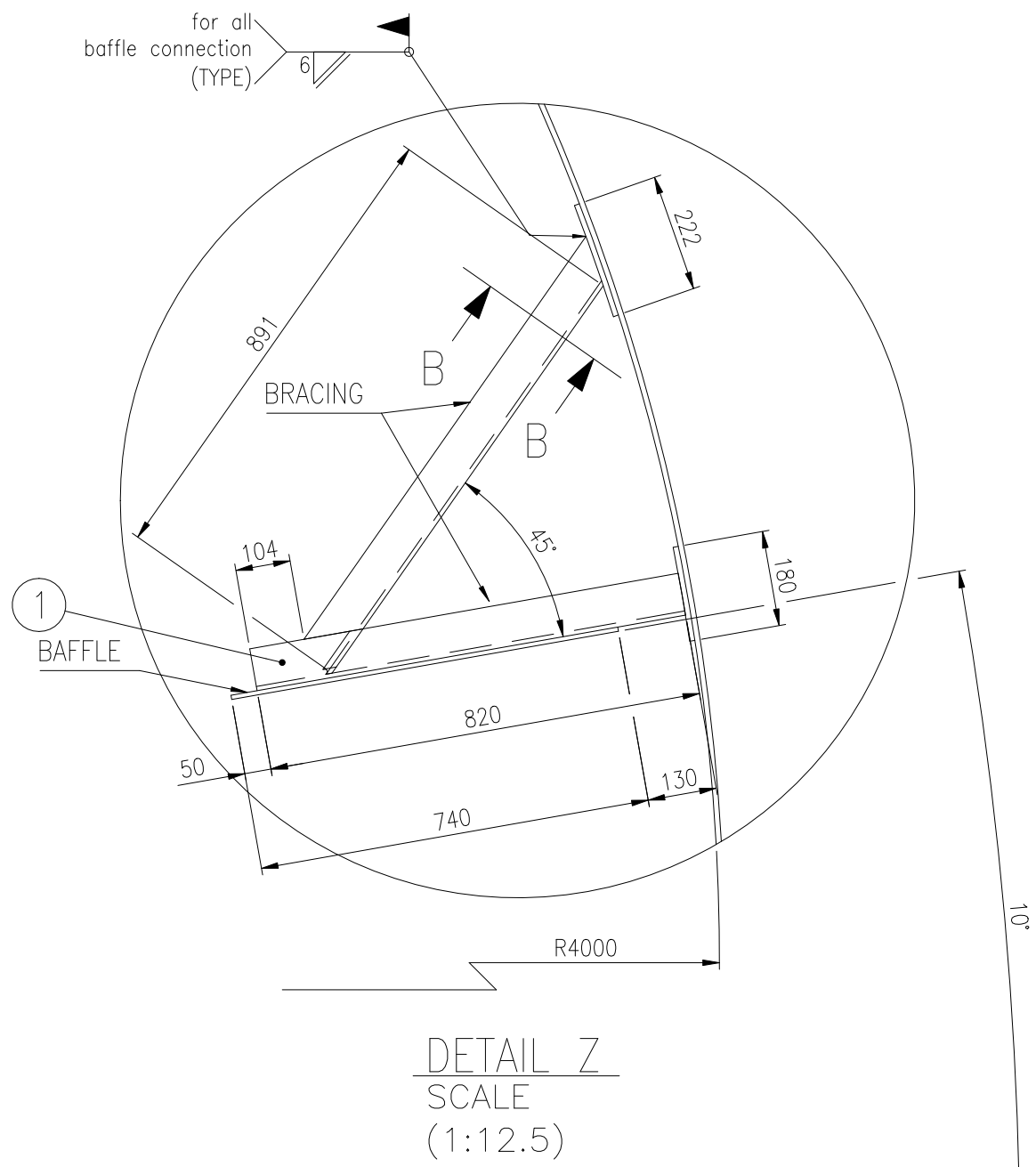
CONFIDENTIAL: THIS DOCUMENT IS CONFIDENTIAL AND CONTAINS PROPRIETARY INFORMATION (INCLUDING IMPROVEMENTS) OF IRITEC USE, DISCLOSURE, AND/OR REPRODUCTION OF IT WITHOUT WRITTEN PERMISSION OF IRITEC OR ANY DETRIMENTAL USE TO THE INTERESTS OF IRITEC IS FORBIDDEN.



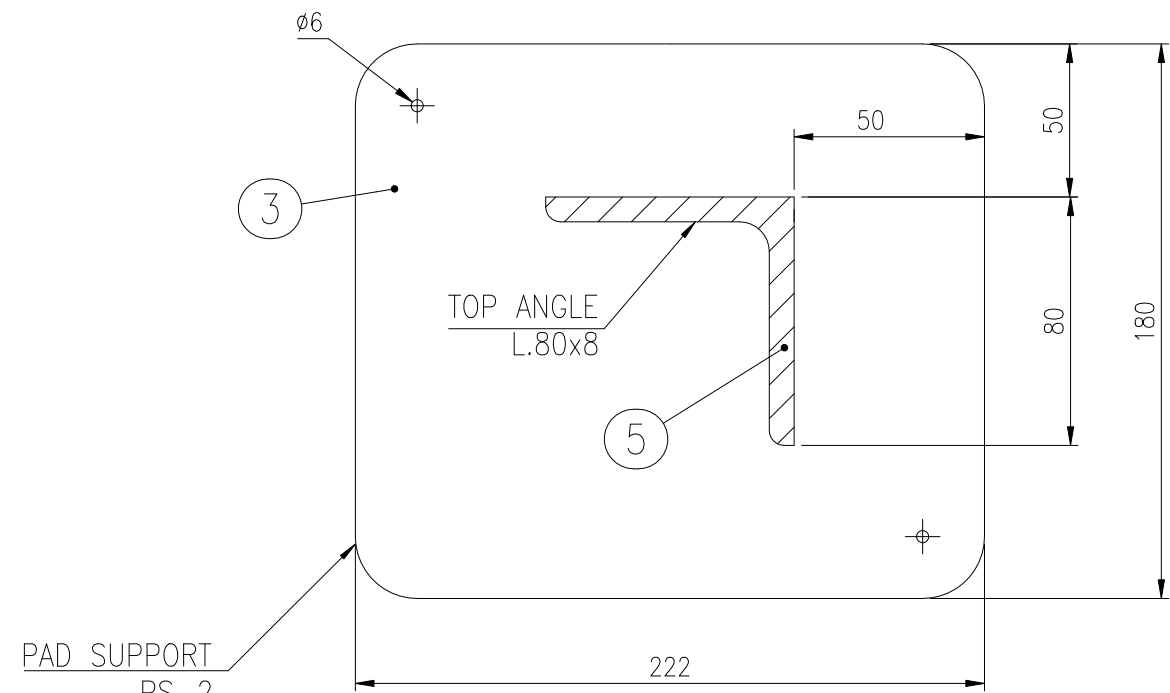
BAFFLE ORIENTATION



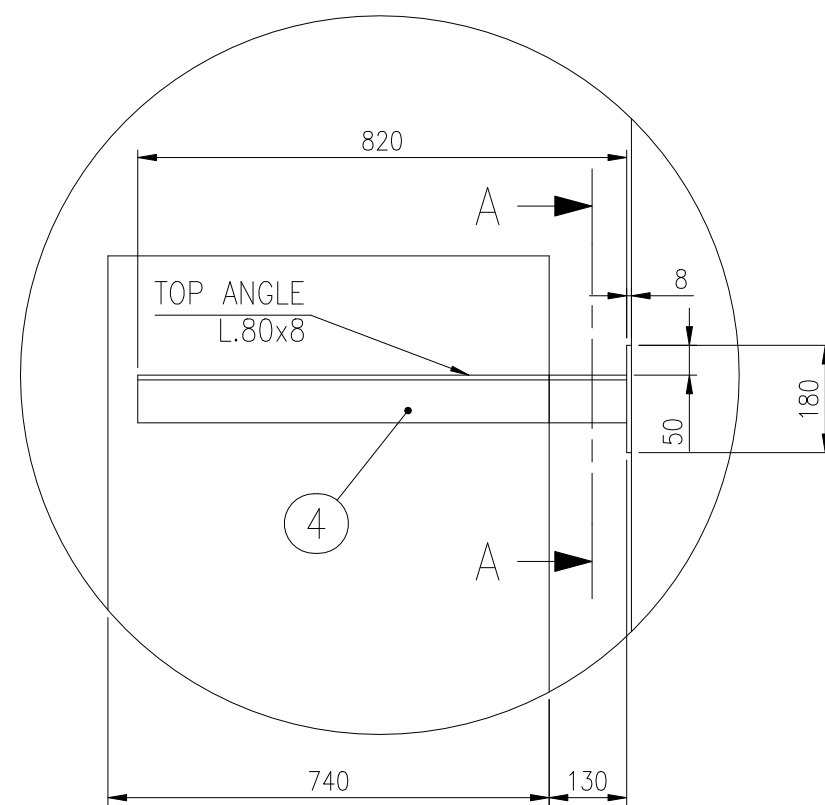
BAFFLE ELEVATION



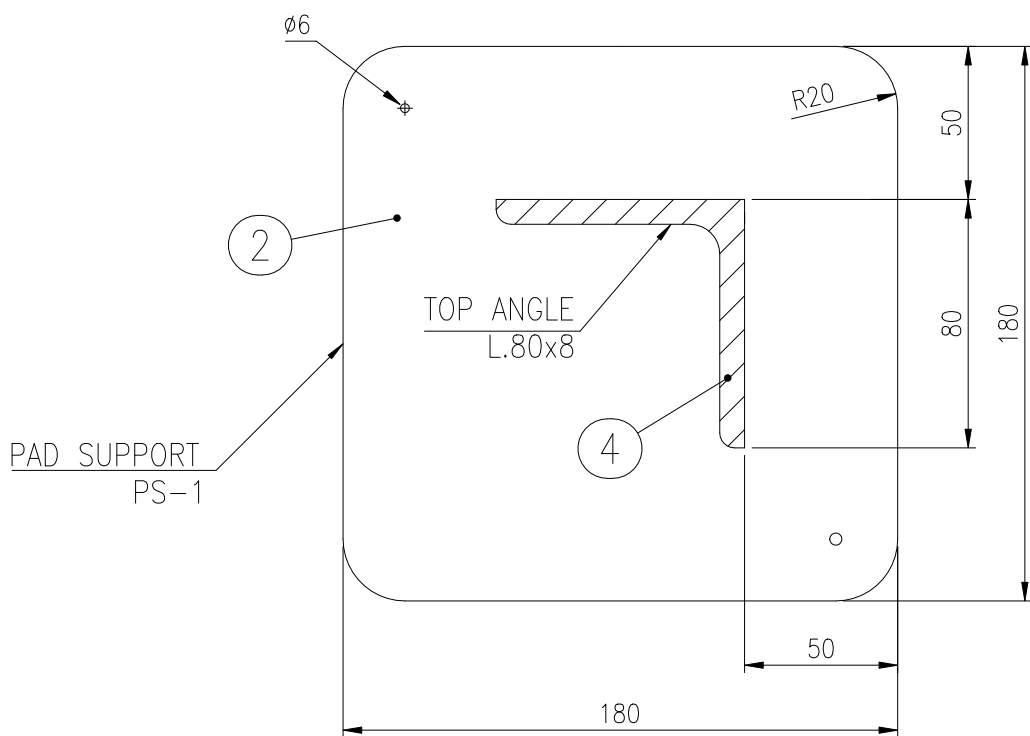
DETAIL Z
SCALE
(1:12.5)



SECTION B-B



DETAIL Y



SECTION A-A

FOR INFORMATION

SIGNATURE DATE

1- ALL DIMENSIONS ARE IN (mm),UNLESS OTHERWISE IS NOTED.

5	20	BRACING SUPPORT (BS-2)	8.70	A-283-GR.C	L80x80x8, L=957
4	20	BRACING SUPPORT (BS-1)	7.80	A-283-GR.C	L80x80x8, L=820
3	20	PAD SUPPORT (PS-2)	2.50	A-283-GR.C	PL.222x180x8
2	20	PAD SUPPORT (PS-1)	2.00	A-283-GR.C	PL.180x180x8
1	4	BAFFLE PLATE	362.50	A-283-GR.C	
Item	Qty	Designation	Unit	Material	Standard/Ref. Dwg.
TOTAL WEIGHT=			1870 kg		

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)

CLIENT:	CONSULTANT:	CONTRACTOR:
		
		

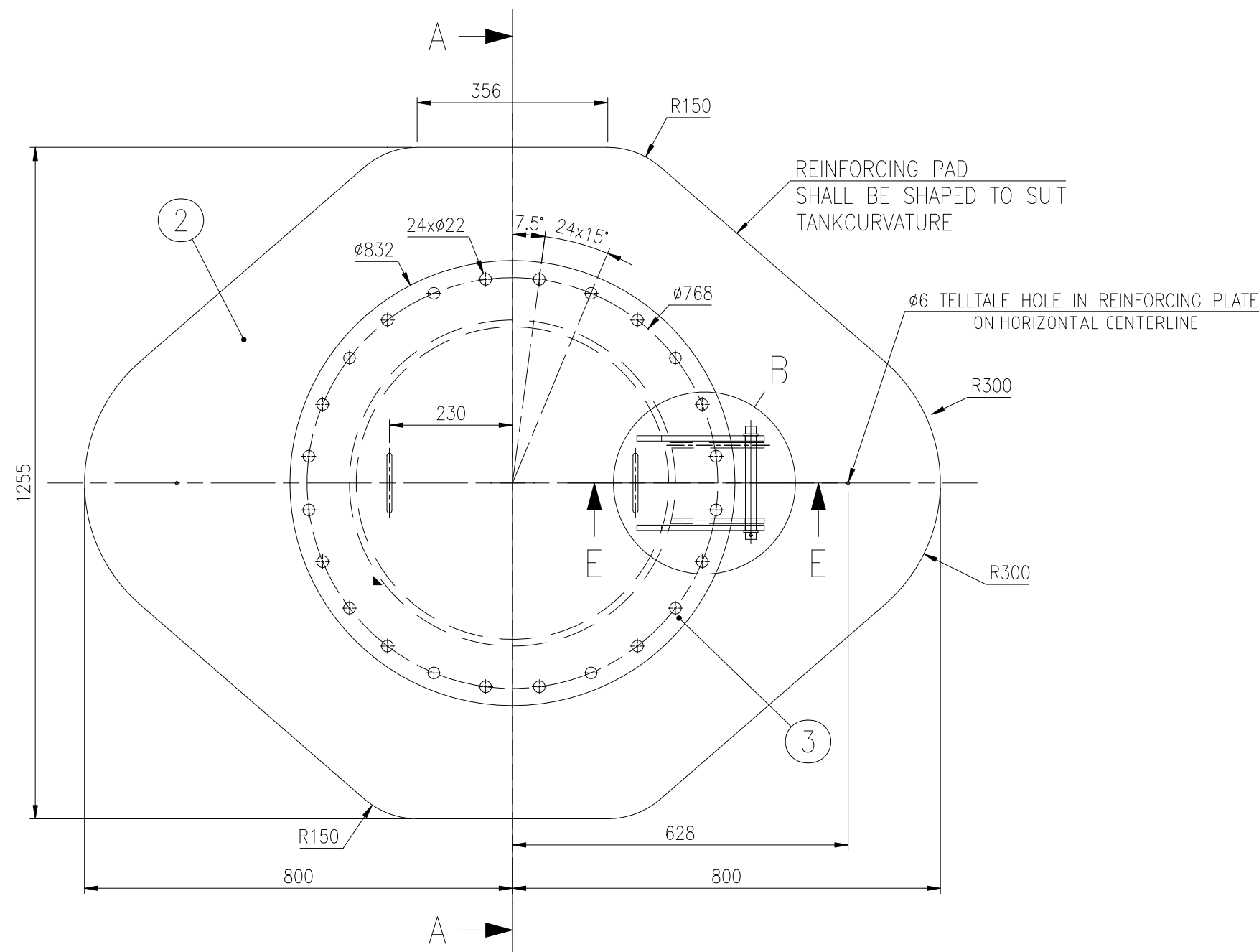
PROJECT TITLE :	CLIENT	DRAWING No.	REV.
SAQQEZ GOLD PLANT PROJECT	1187200DWGME033	01	

DRAWING TITLE :	FIX EQUIPMENT DESIGN
LEACHING TANK TK-002~009A/B (QTY.=16)	
INTERNAL BAFFLE DETAILS	
ø8000x9000 (450 M ³)	

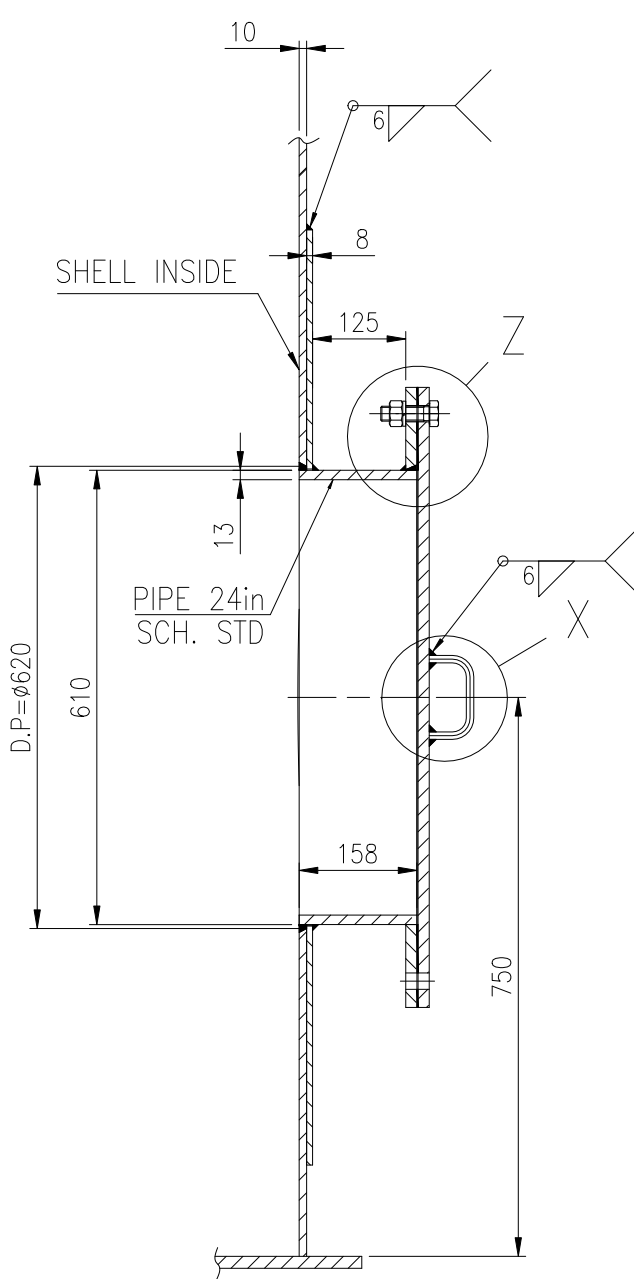
IRITEC	ایریتک	SIGNATURE	DATE	SHEET No.	SCALE	SIZE
DESIGNED	F.FARAHANI	03/02/23	1/1	1:50	A1	
DRAWN	N.VESALI	03/02/23	PROJECT REF. NO.			
CHECKED	S.MOHAMMADI	00/00/00				
APPROVED	M.AMINPOUR	03/02/23				
141810	MA 6M 20 033	B				141810

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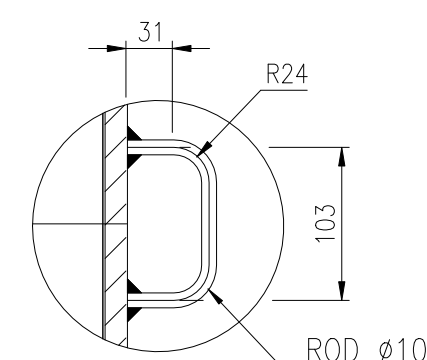
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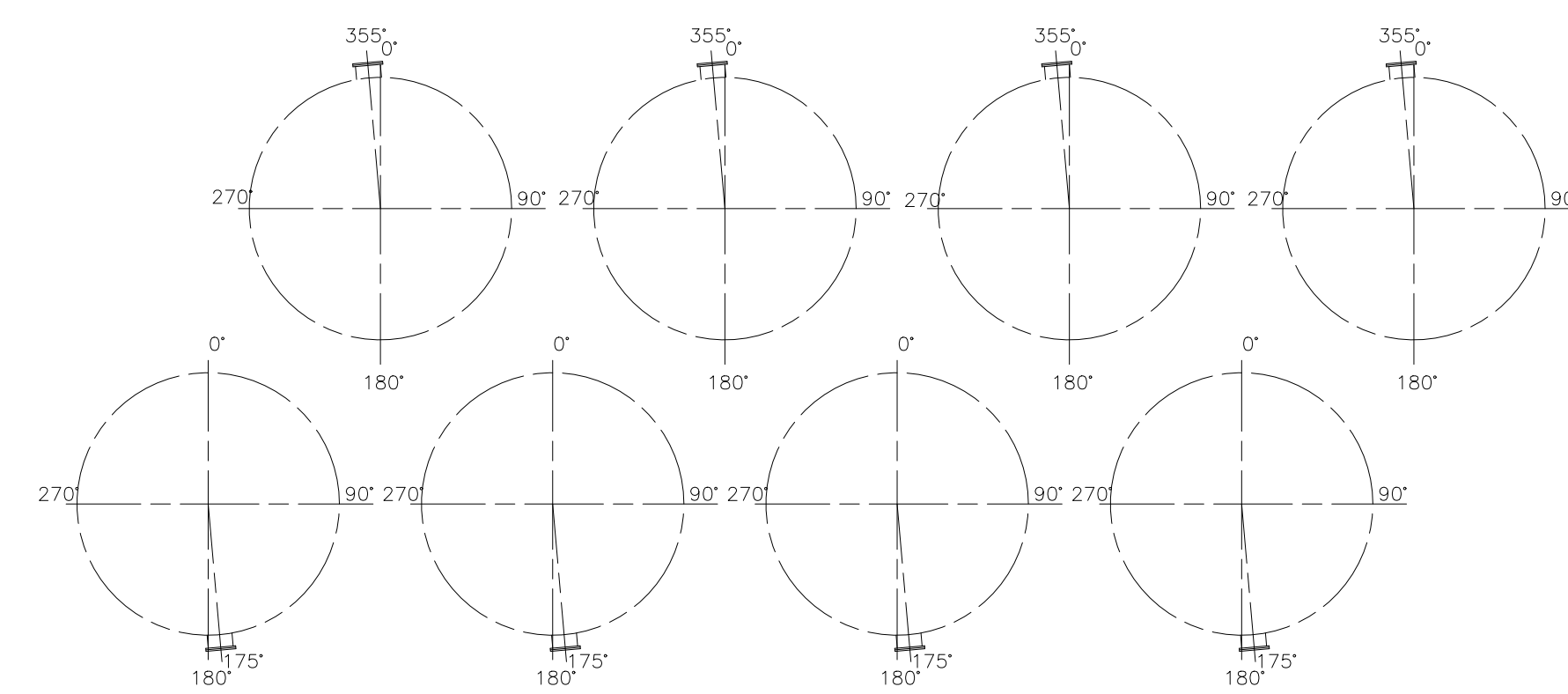
DETAIL OF MANHOLE



SECTION A-A



DETAIL X
SCALE 1:5

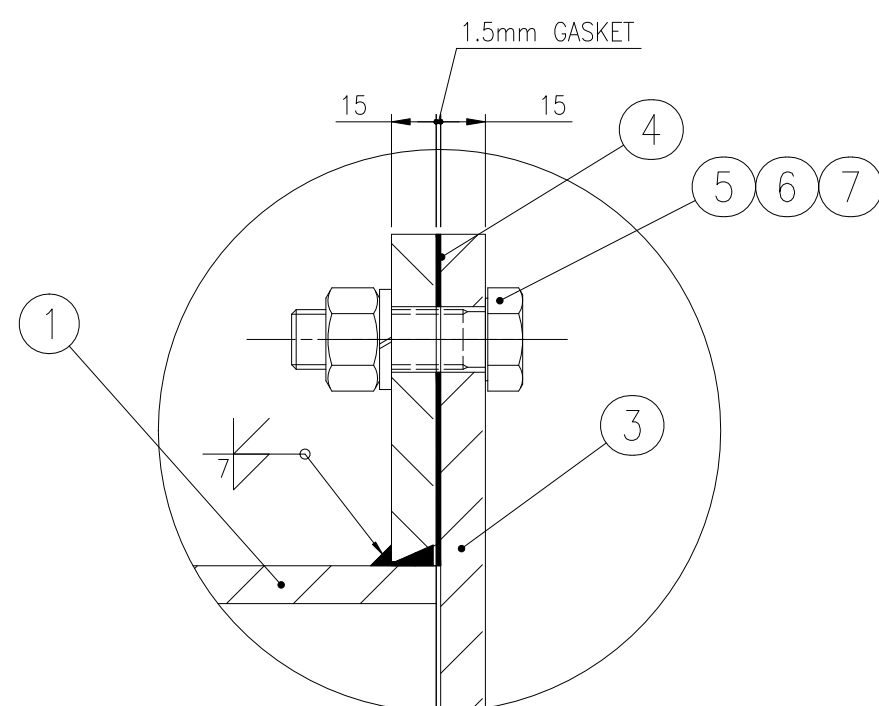


KEY PLAN

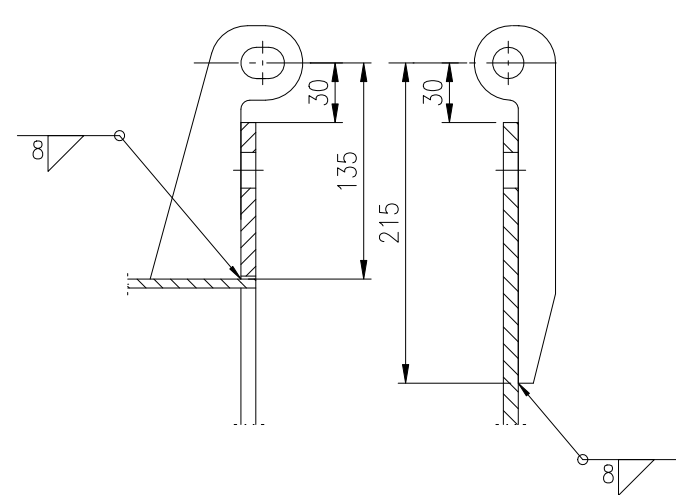
FOR INFORMATION

SIGNATURE DATE

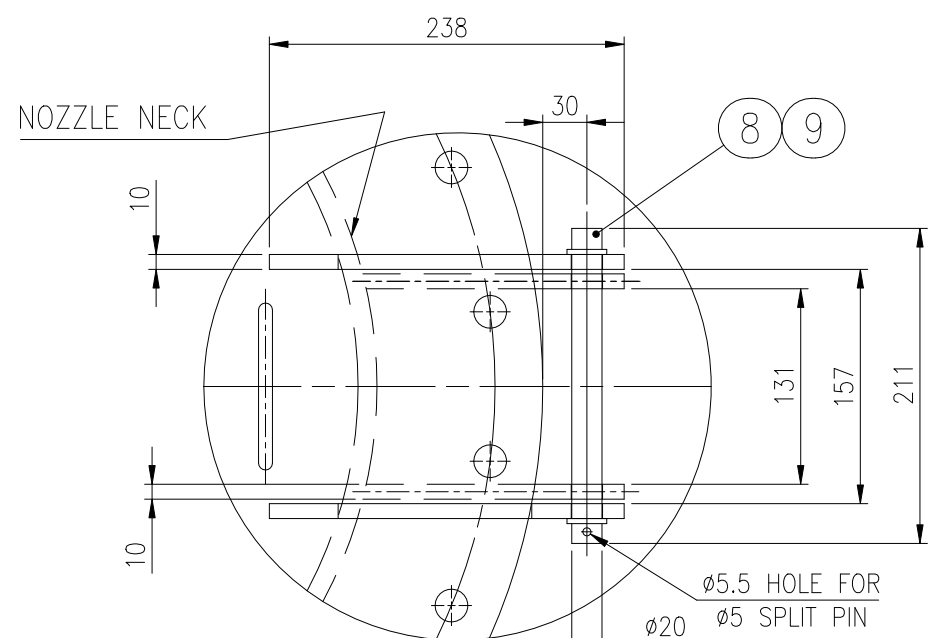
- NOTE:
- 1-ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE IS NOTED.
 - 2-EL. = DISTANCE FROM CENTER LINE OF NOZZLE TO TOP OF BOTTOM PLATE.
 - 3-PROJ.=DISTANCE FROM FLANGE FACE TO OUTSIDE OF THE SHELL.
 - 4-D.R = HOLE DIAMETER IN REINFORCING PAD.
 - 5-D.P. = HOLE DIAMETER IN SHELL.
 - 6-ALL BOLT HOLES OF FLANGES SHALL BE STRADDLE ON MAIN AXIS.
 - 7-ALL REINFORCING PADS TO BE TESTED BY AIR AT 0.5 Barg PRESSURE AND CHECKED WITH SOAP SUDS FOR LEAKS.
 - 8-ALL VENT HOLES OF REINFORCING PADS TO BE PLUGGED WITH STIFF GREASE AFTER WELDING AND LEAK TEST.
 - 9-MANHOLE IS ACCORDING TO API-650 STANDARD.
 - 10-NOZZLE FLANGE CONTACT FACE FINISHING SHALL BE:125:250 Ra.
 - 11-REINFORCED FLEXIBLE GRAPHITE GASKETS 1.5mm THICKNESS FOR ALL DIAMETERS AS PER ASME B16.21.
 - 12-DUE TO MACHINED FLANGE SURFACES,MATERIAL CONSIDERED TO BE THICKER.
 - 13-EACH PIECE AND BLOCK SHALL BE PAINTED WITH MARK NO. & ITEM NO.



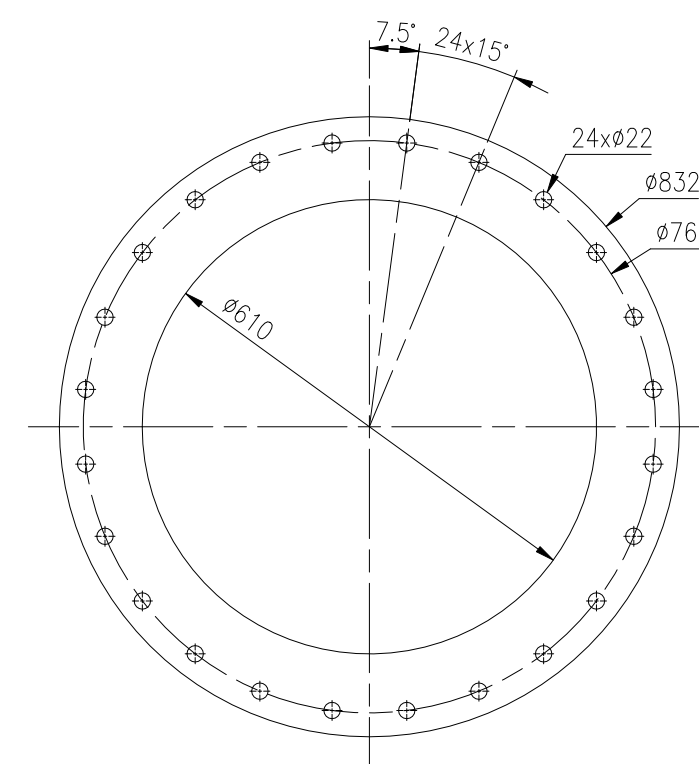
DETAIL Z
SCALE 1:2.5



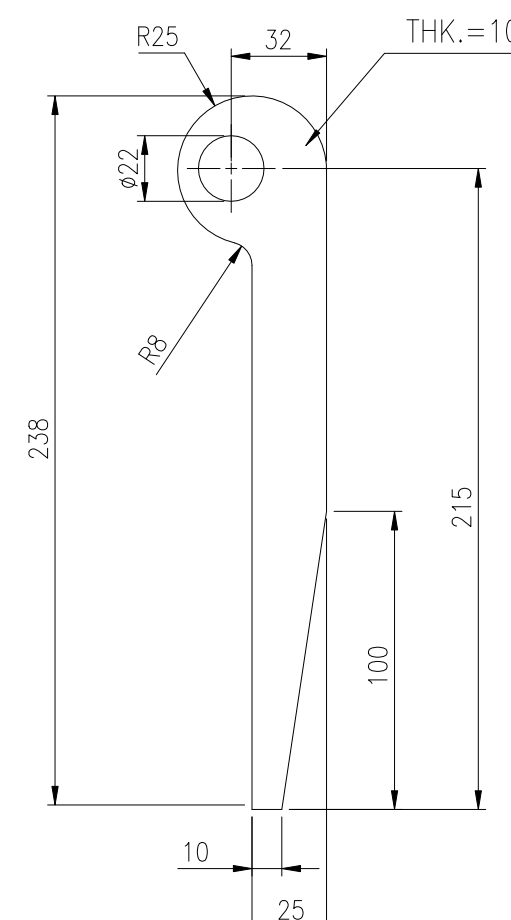
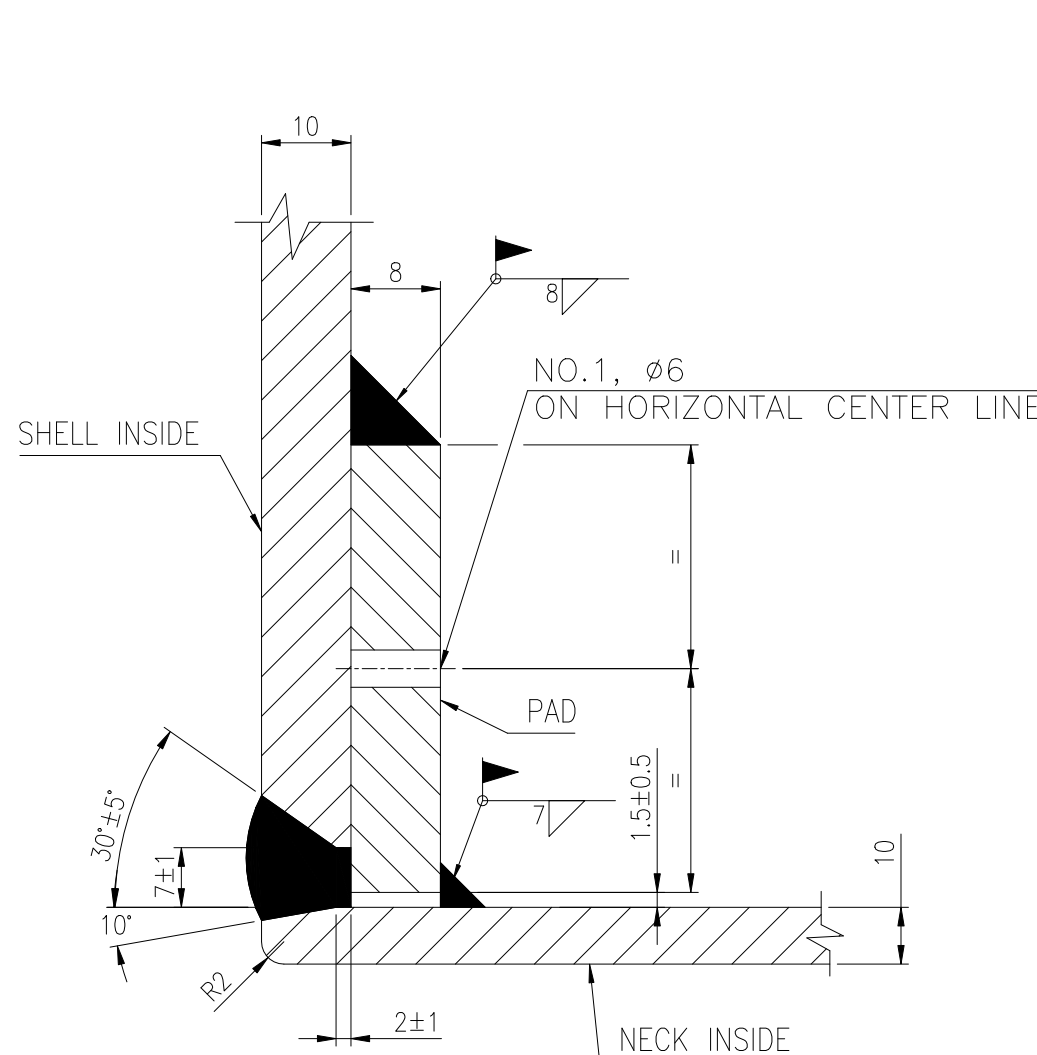
SECTION E-E
SCALE 1:5



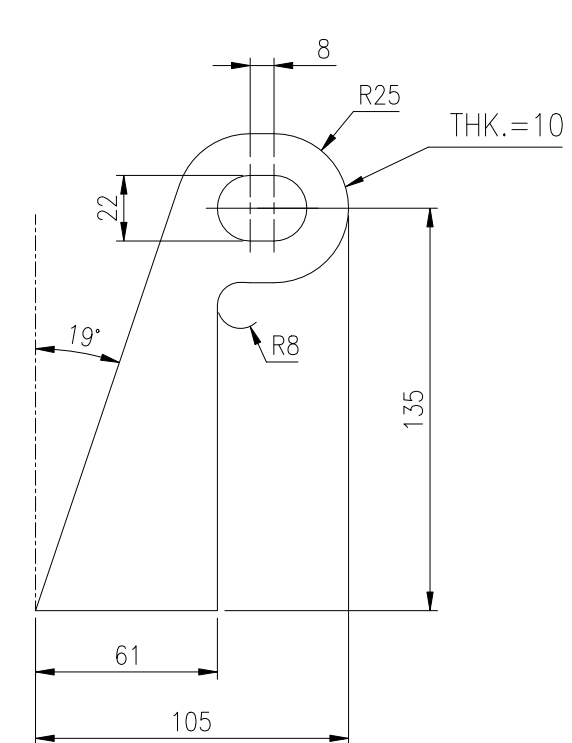
DETAIL B
SCALE 1:5



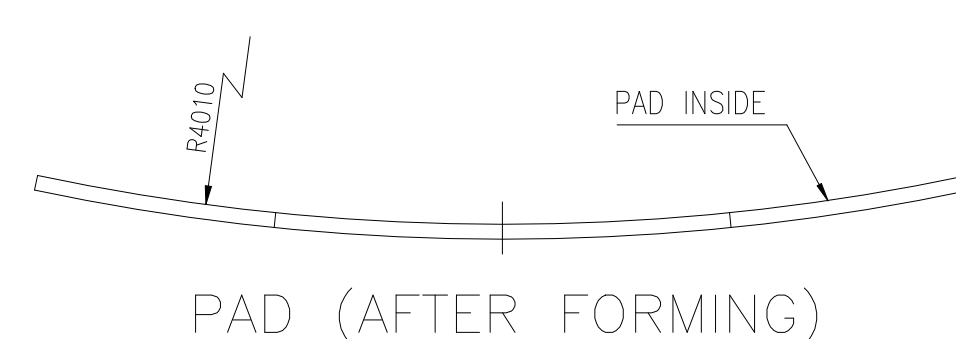
ITEM 4,GASKET



HINGE LUG"2"
SCALE 1:2.5








HINGE LUG"1"
SCALE 1:2.5

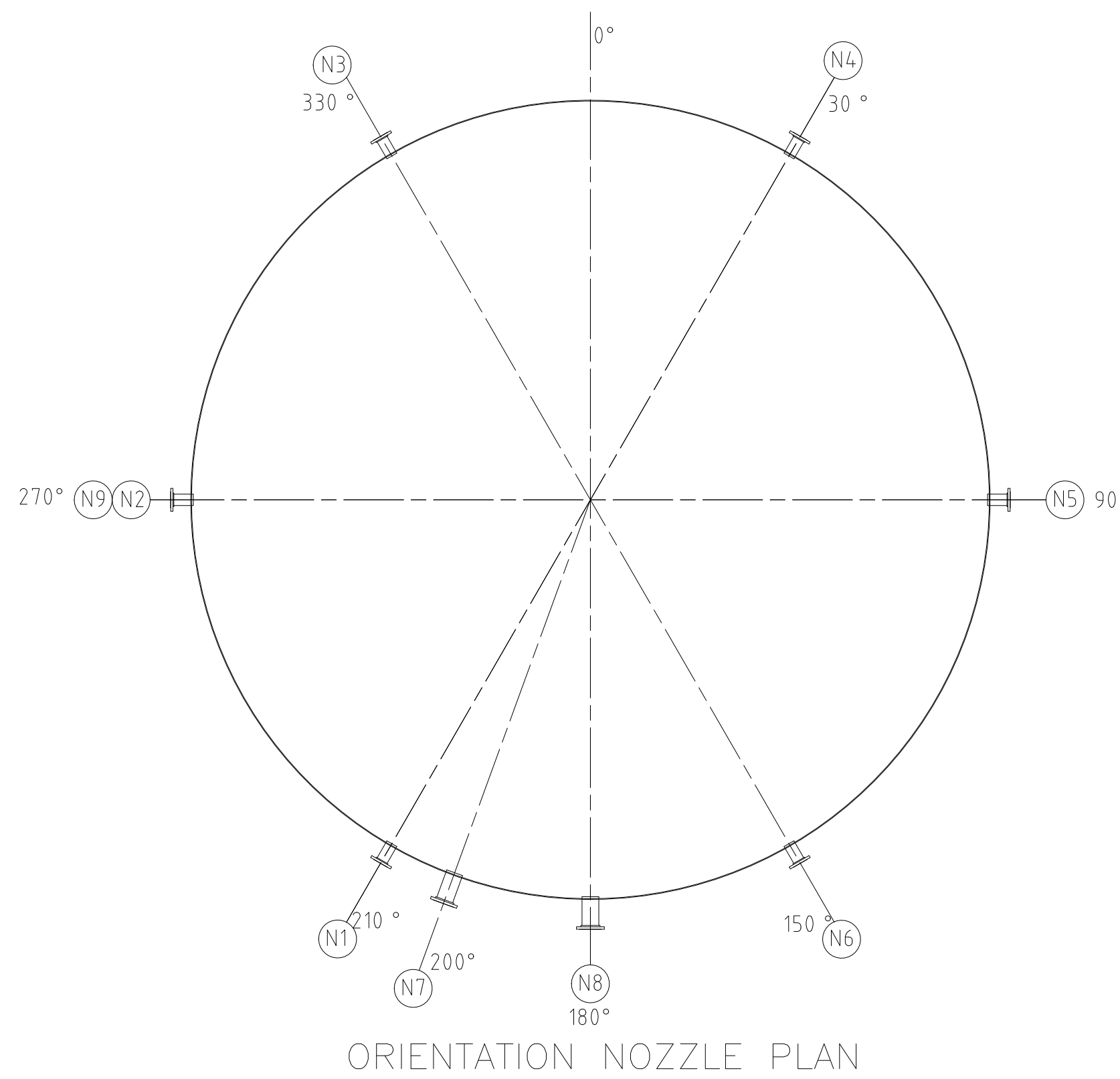
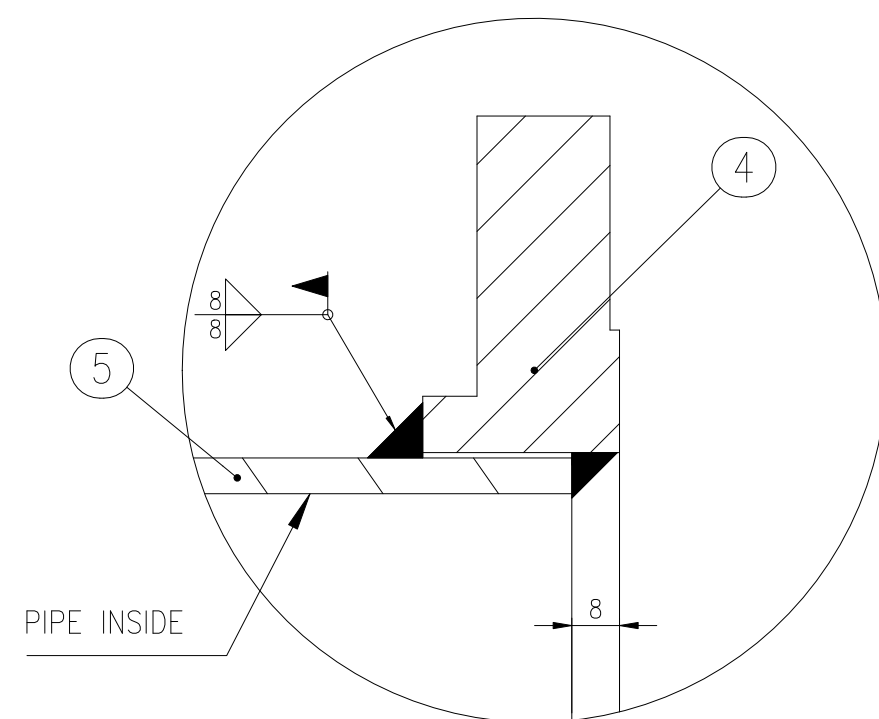
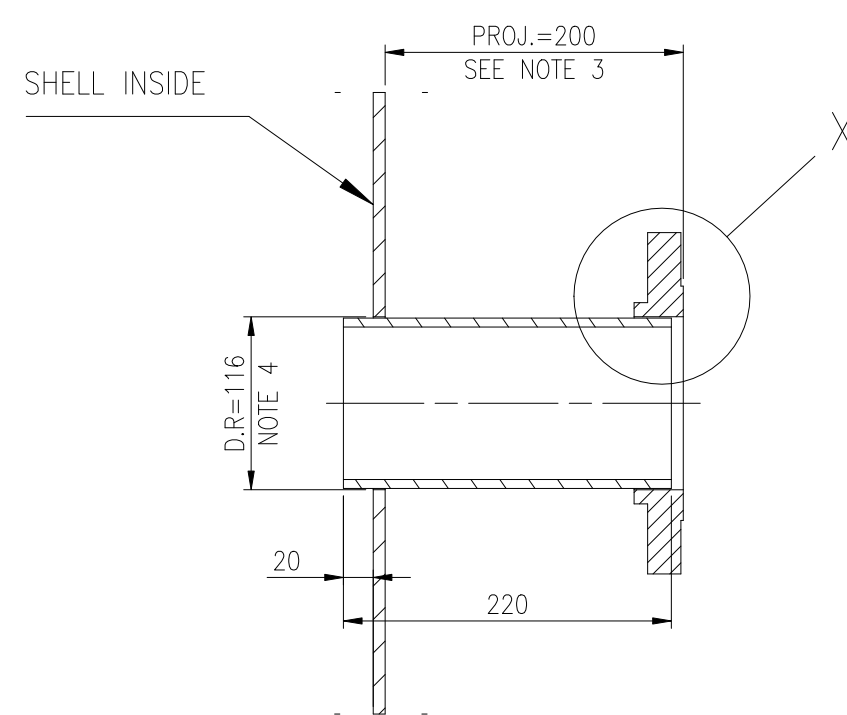
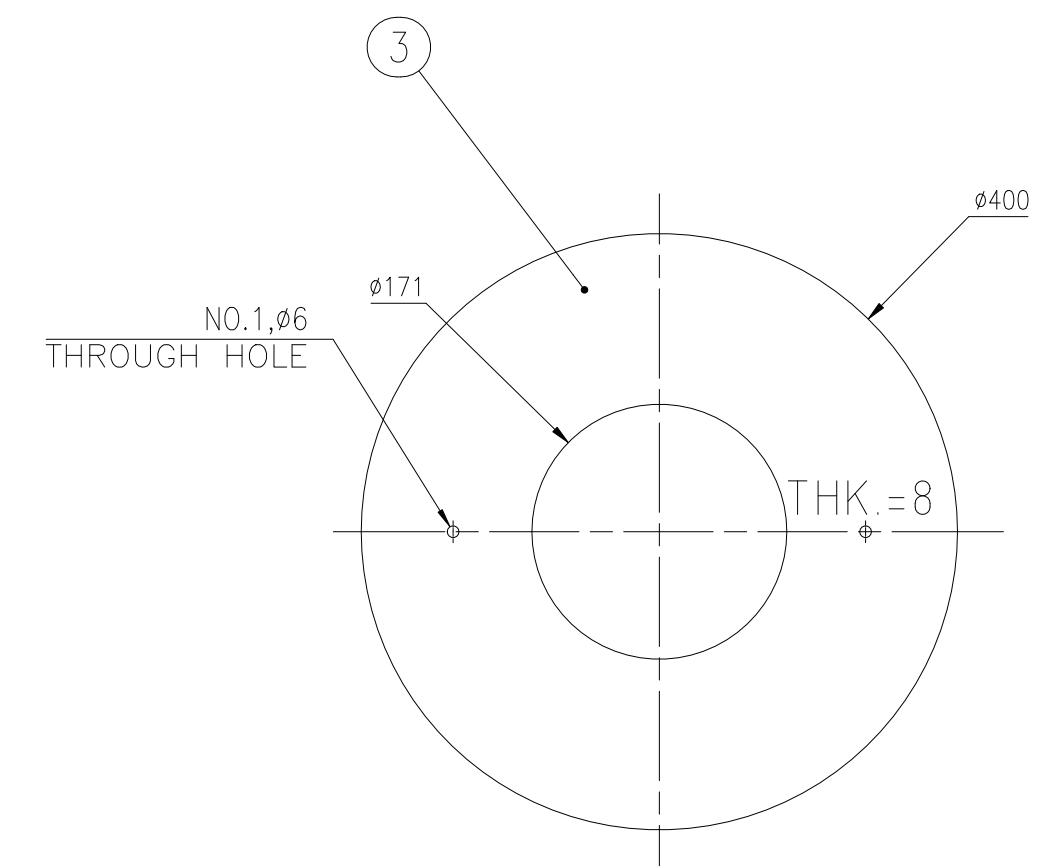
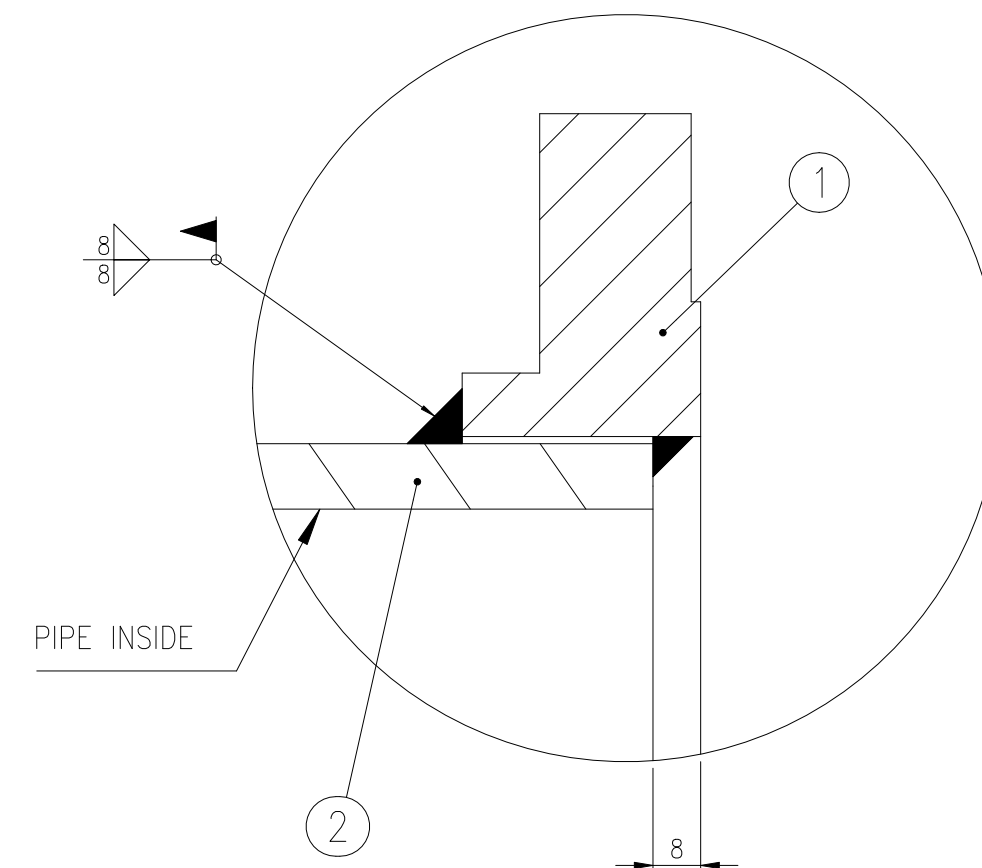
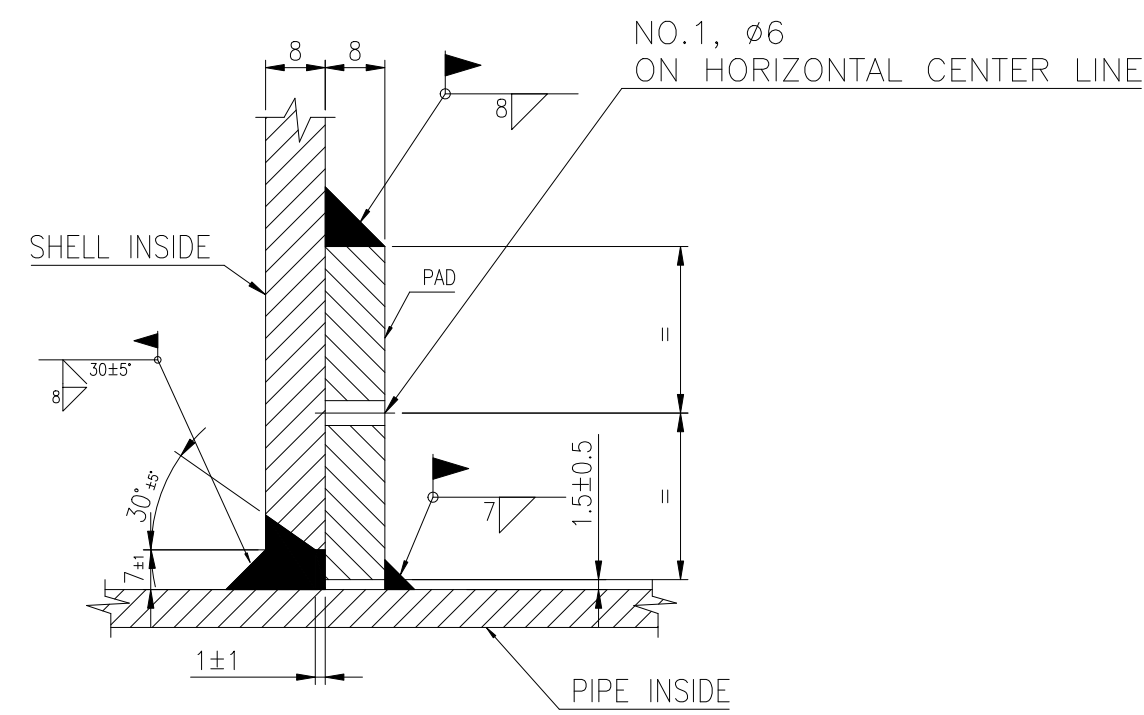
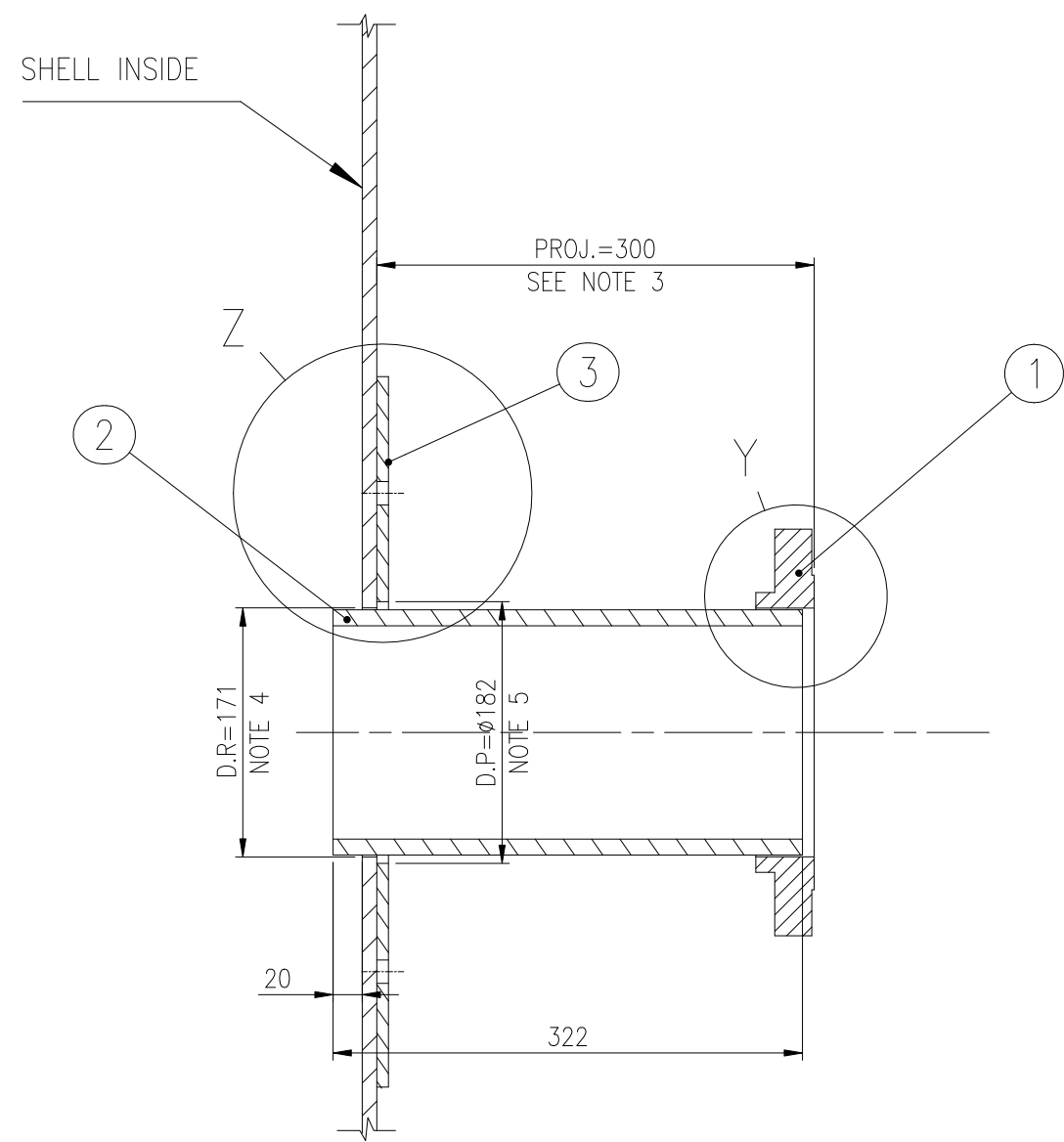


PAD (AFTER FORMING)

9	1	SPLIT PIN Ø5x40	0.01	ST	DIN934
8	1	PIN Ø20	1.10	A-283-GR.C	
7	1	SPRING WASHER-A20	0.01	Fst-tzn	DIN 128
6	1	HEX NUT-M20	0.03	8-tzn	DIN 934
5	1	HEX-HEAD BOLT-M20x100	0.14	8.8-tzn	DIN 933
4	1	GASKET	1.00	RUBBER	
3	1	FLANGE Ø832x14	41.00	A-283-GR.C	
2	1	REINFORCING PAD	73.00	A-283-GR.C	
1	1	MANHOLE DOOR	58.00	A-283-GR.C	
Item Qty		Designation	Unit kg	Material	Standard/Ref. Dwg.
TOTAL WEIGHT= 175 kg					

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)											
CLIENT:			CONSULTANT:			CONTRACTOR:					
<div><p>شرکت توسعه معادن طلای کردستان Kordestan Gold Mines Development Co.</p></div>			<div><p>AMATIS RABIN Consulting Engineers</p></div>			<div><p>ایریتک IRAN INTERNATIONAL ENGINEERING COMPANY شرکت المانی هندسی ایران</p></div> <div><p>بیدک BITA INNOVATIVE ENG. CO. شرکت های نوآوری</p></div>					
PROJECT TITLE :						CLIENT DRAWING No.		REV.			
SAQQEZ GOLD PLANT PROJECT						1187200DWGME034		01			
DRAWING TITLE :						FIX EQUIPMENT DESIGN					
LEACHING TANK TK-002~009A/B (QTY.=16)											
SHELL MANHOLES DETAILS											
ø8000x9000 (450 M ³)											
<div><p>ایریتک IRAN INTERNATIONAL ENGINEERING COMPANY شرکت المانی هندسی ایران</p></div>						SIGNATURE		DATE	SHEET No.	SCALE	SIZE
DESIGNED						F.FARAHANI		03/02/23	1/1	1:10	A1
DRAWN						N.VESALI		03/02/23	PROJECT REF. NO.		
CHECKED						S.MOHAMMADI		00/00/00	141810		
APPROVED						M.AMINPOUR		03/02/23			
10						11		12			

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FOR INFORMATION

SIGNATURE DATE

NOTES:

- 1- ALL DIMENSIONS ARE IN (mm),UNLESS OTHERWISE IS NOTED.
- 2- EL. = DISTANCE OF CENTER LINE OF NOZZLE TO TOP OF THE BOTTOM PLATE.
- 3- PROJ. = DISTANCE OF FLANGE RAISED FACE TO OUTER OF THE SHELL.
- 4- DR = HOLE DIAMETER IN PAD.
- 5- DP = HOLE DIAMETER IN SHELL.
- 6-ALL BOLT HOLES OF FLANGES SHALL BE STRADDLE ON MAIN AXIS.
- 7-ALL VENT HOLES OF REINFORCING PADS TO BE PLUGED WITH STIFF GREASE AFTER WELDING AND LEAK TEST.
- 8- ALL FLANGES ARE ACCORDING TO ANSI B16.5 STD. UNLESS SPECIFIED NOTED.
- 9-ALL INTERNAL PADS HAVING VENT HOLES TO BE COVERED WITH WELD AFTER GAS EXITS.
- 10-EACH PIECE AND BLOCK SHALL BE PAINTED WITH MARK NO. & ITEM NO.



5	7	PIPE -b	3.50	A106-B	P.4", SCH40, L=322
4	7	FLANGE	5.90	A105	4", #150, S.O., R.F.
3	2	REINFORCING PAD	5.00	A-283-GR.C	OD.=9400, ID.=Ø171, THK=8
2	2	PIPE -a	9.00	A106-B	P.6", SCH40, L=322
1	2	FLANGE	8.50	A105	6", #150, S.O., R.F.
Item	Qty	Designation	Unit kg	Material	Standard/Ref. Dwg.
TOTAL WEIGHT+3%FILLER			METAL= 827 kg		

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)

CLIENT:	CONSULTANT:	CONTRACTOR:
 <p>شرکت توسعه مکانیک کارشناس</p> <p>Karshenas Group Sherkat Development Co.</p>	 <p>AMATIR RABIN</p> <p>Amatir Rabin Group Sherkat Development Co.</p>	 <p>ایریتک</p> <p>IRITEC</p> <p>IRAN INTERNATIONAL ENGINEERING COMPANY</p> <p>شرکت بین المللی مهندسی ایران</p>

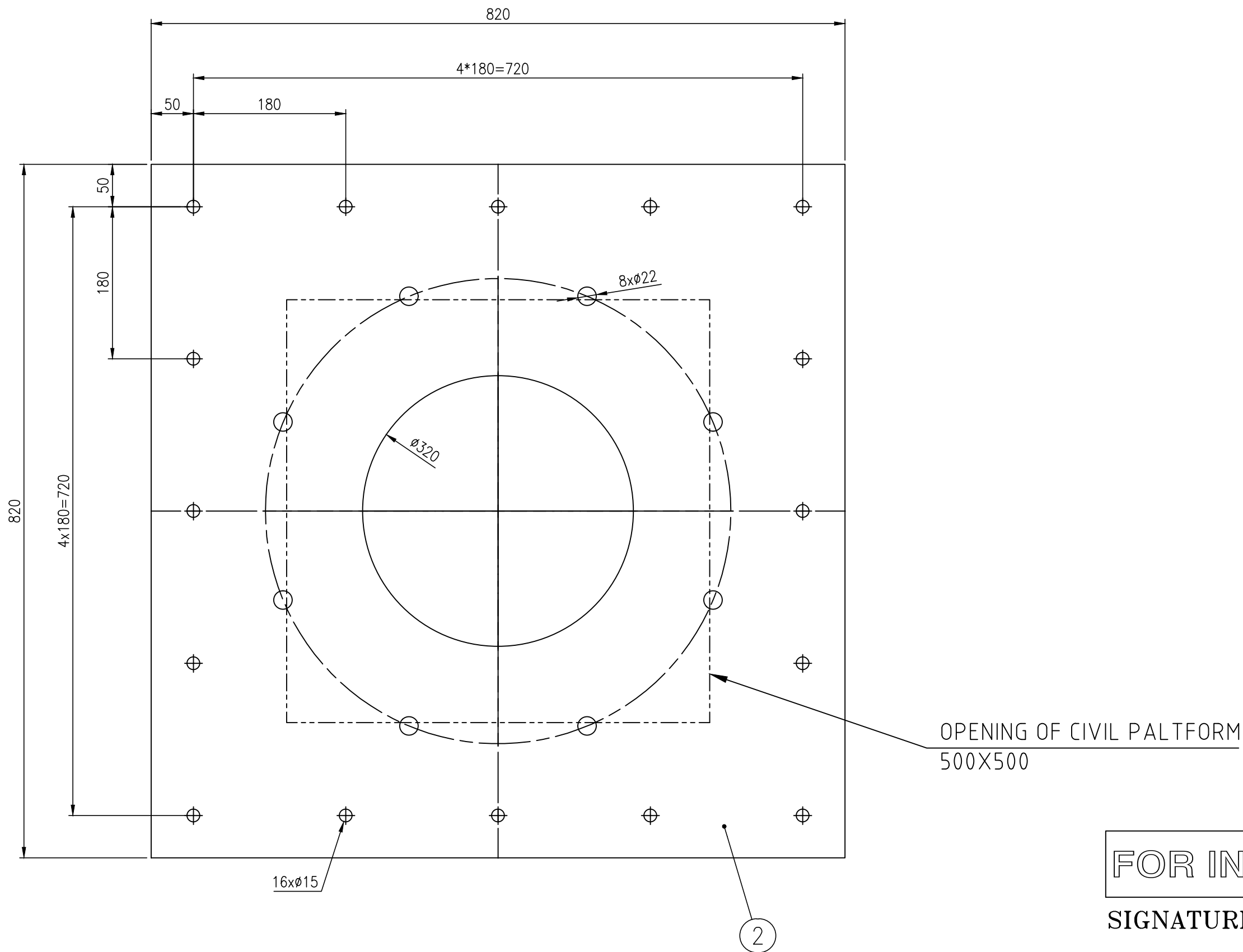
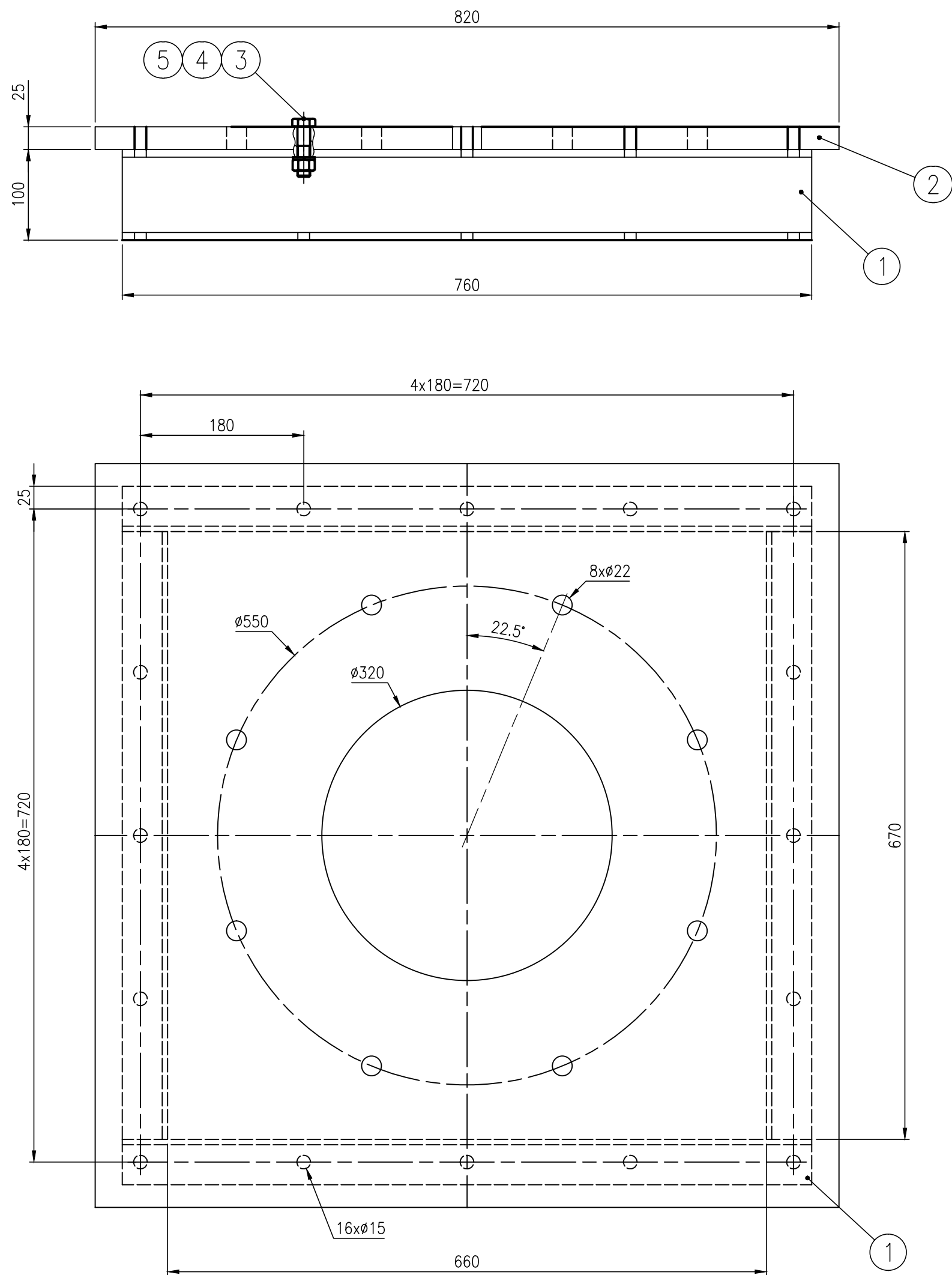
PROJECT TITLE :	CLIENT DRAWING No.	REV.
SAQQEZ GOLD PLANT PROJECT	1187200DWGME035	01

DRAWING TITLE :	FIX EQUIPMENT DESIGN
	LEACHING TANK TK-002~009A/B (QTY.=16)
	NOZZLE DETAILS
	ø8000x9000 (450 M^3)

 				SIGNATURE		DATE		SHEET NO		SCALE		SIZE	
IRAN INTERNATIONAL ENGINEERING COMPANY شرکت بین المللی مهندسی ایران				DESIGNED F. FARAHANI		03/02/23		1/1		1:20		A1	
IRTEC DRAWING No.				DRAWN N. VESALI		03/02/23		PROJECT REF. NO.					
141810 MA 6M 20 035				CHECKED S. MOHAMMADI		00/00/00		141810					
REV. B				APPROVED M. AMINPOUR		03/02/23							

10	11	12
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ITEM 2

OPENING OF CIVIL PALTFORM
500X500

FOR INFORMATION

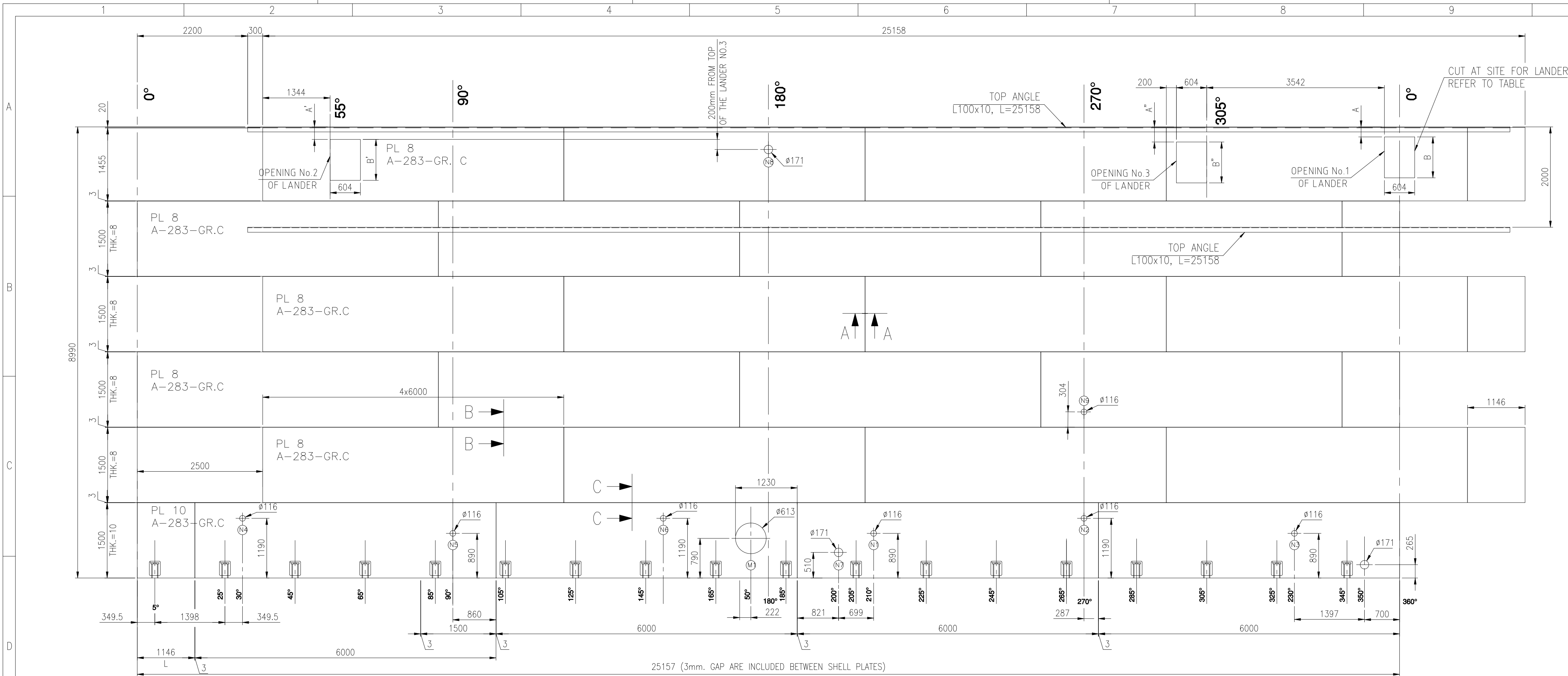
SIGNATURE DATE

NOTE:
1- ALL DIMENSIONS ARE IN (mm),UNLESS OTHERWISE IS NOTED.

5	1	Spring Washer-- A14	11.00		DIN 128
4	1	Hex--Head Bolt -- M14 x 55	21.00		DIN 933
3	1	Hex Nut -- M14	71.00		DIN 934
2	1	PL25x820x820	116.00	RST 37-2	
1	1	UNP100	29.00	RST 37-2	
Item	Qty	Designation	Unit kg	Material	Standard/Ref. Dwg.
TOTAL WEIGHT+3%FILLER METAL= 145 kg					
KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)					
CLIENT:		CONSULTANT:	CONTRACTOR:		
					
PROJECT TITLE :			CLIENT DRAWING No.		REV.
SAQQEZ GOLD PLANT PROJECT			1187200DWGME036		A
DRAWING TITLE :			FIX EQUIPMENT DESIGN		
			LEACHING TANK TK-002~009A/B (QTY.=16)		
			MIXER BASE FRAME		
			ø8000x9000 (450 M ³)		
			SIGNATURE		
IRAN INTERNATIONAL ENGINEERING COMPANY			DATE		
شرکت بین‌المللی مهندسی ایران			SHEET No.		
			SCALE		
IRITEC DRAWING No.			SIZE		
141810 MA 6M 20 036			PROJECT REF. No.		
REV. A			0000		

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DEVELOPMENT OUT SIDE VIEW TK-002-004-006-008A/B

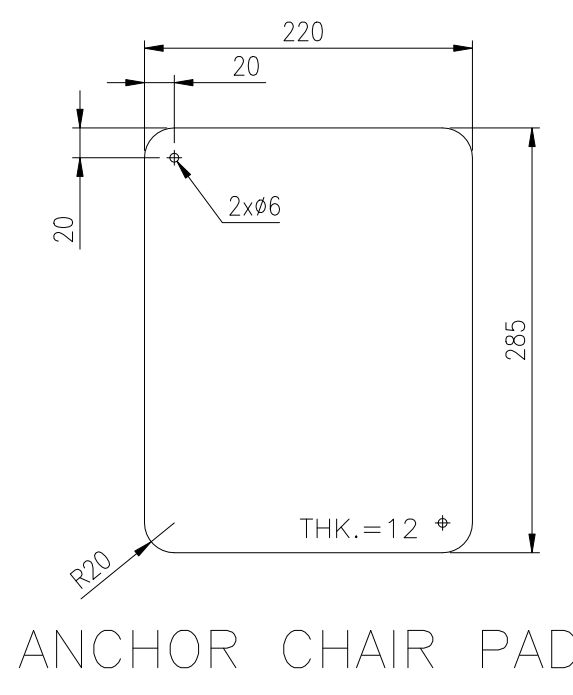
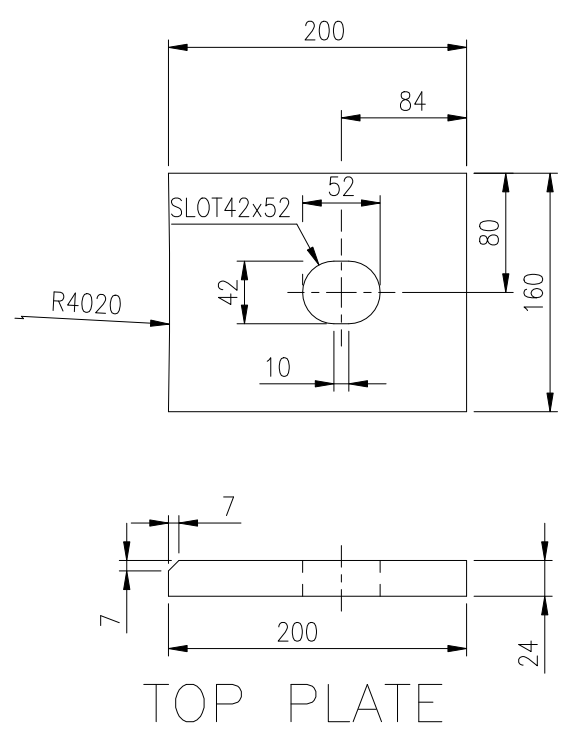
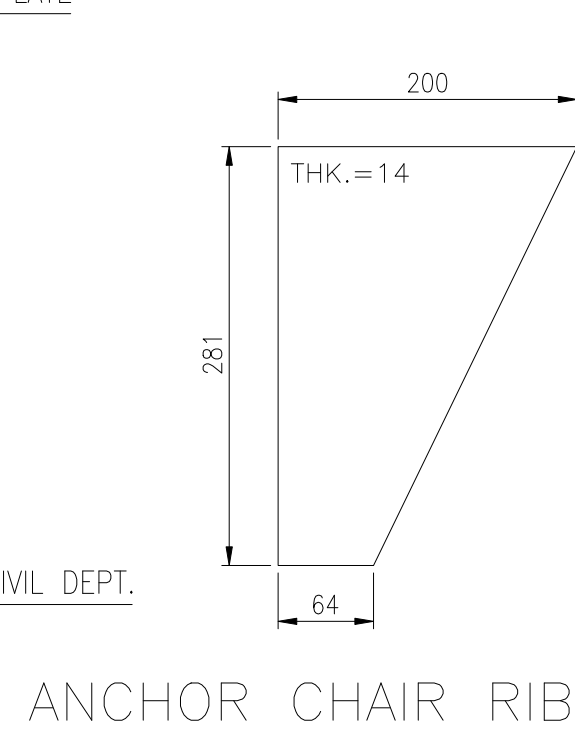
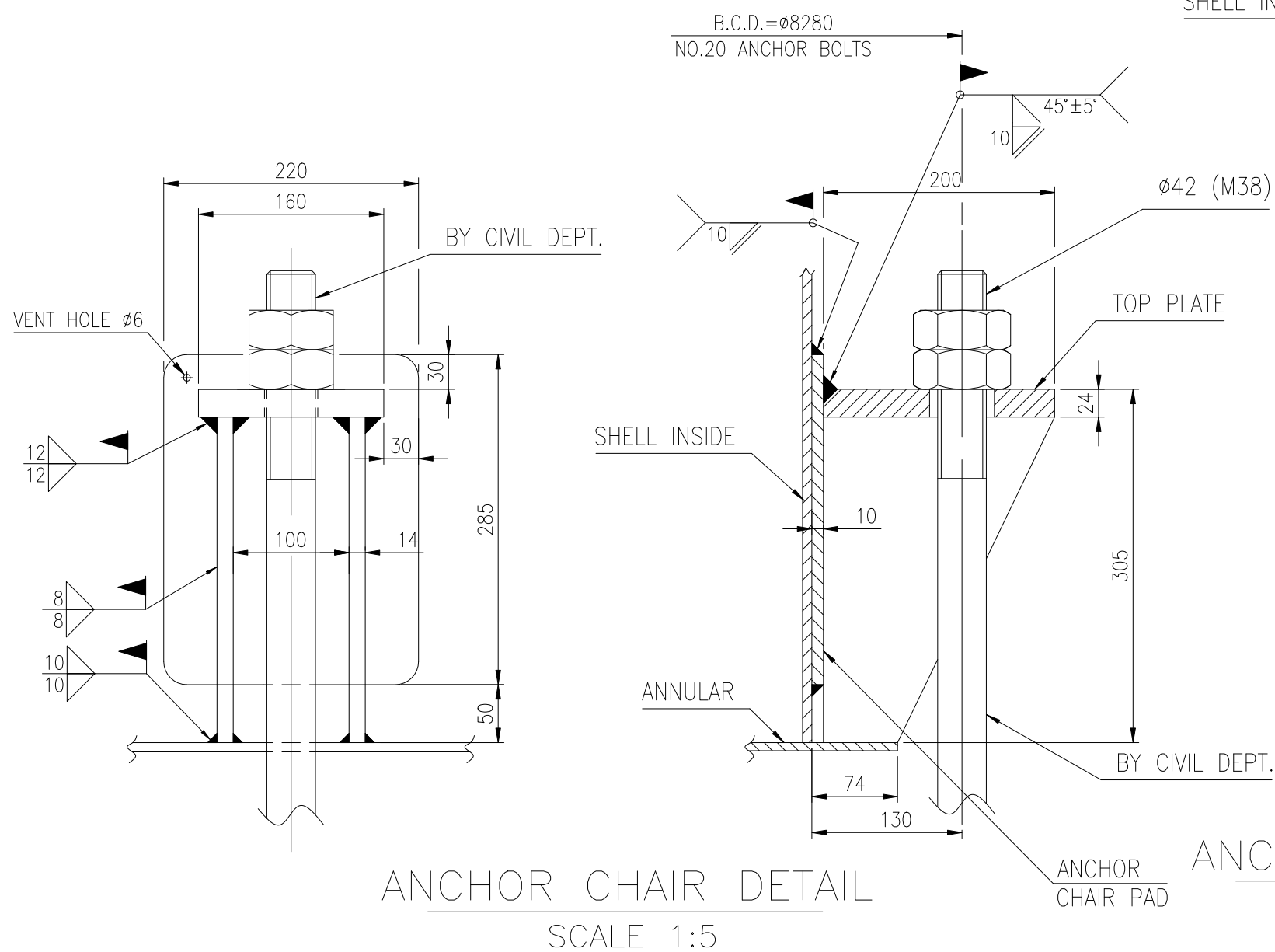
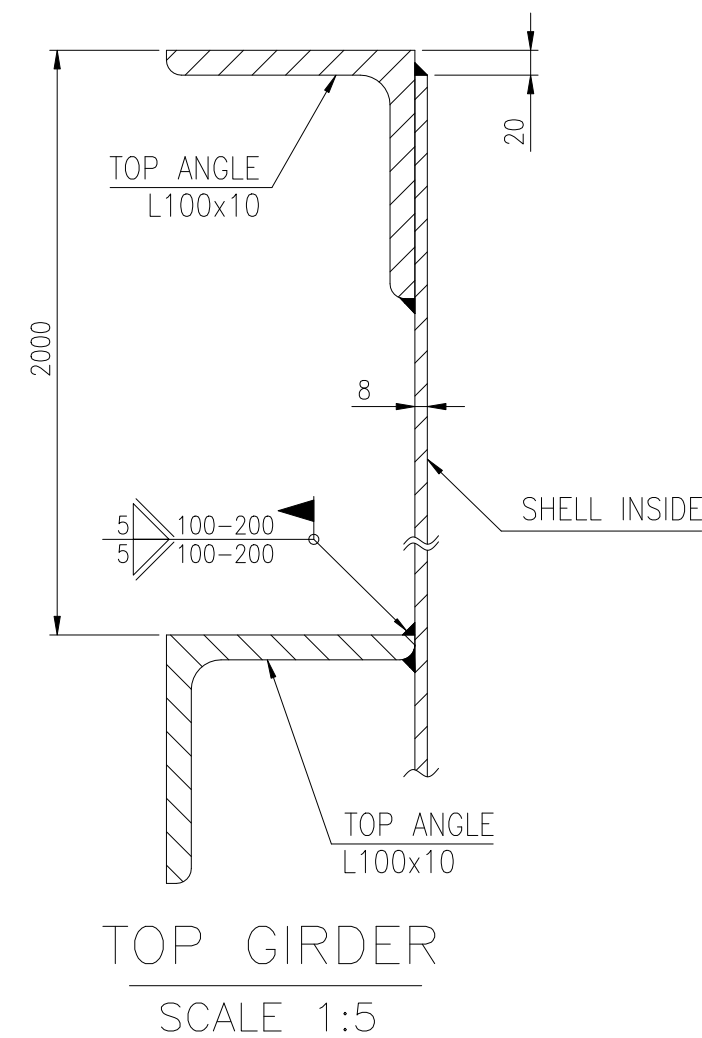
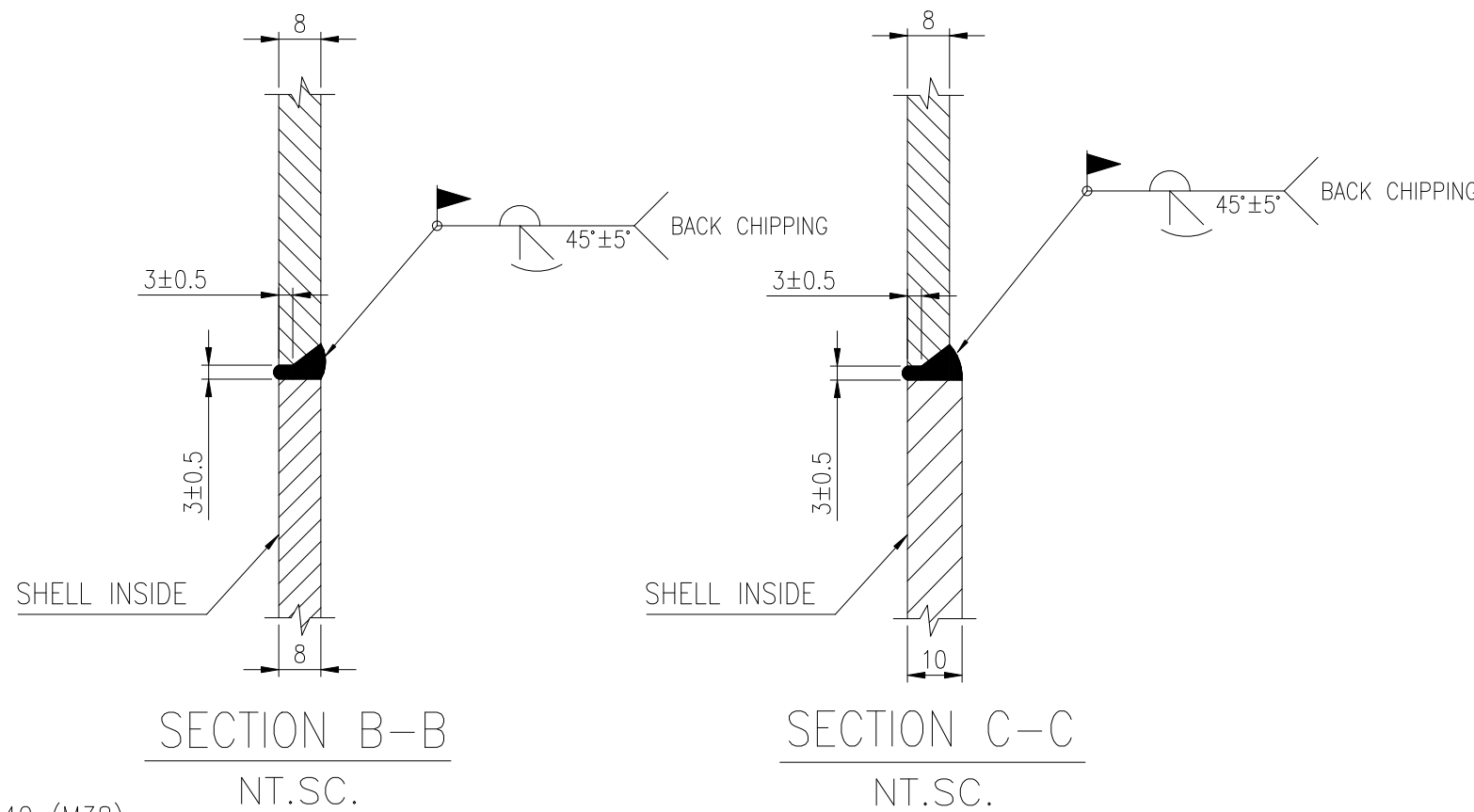
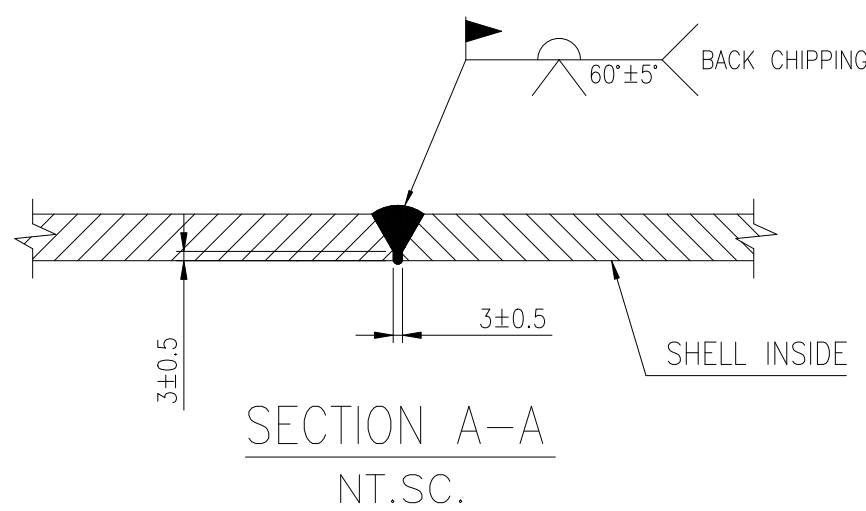
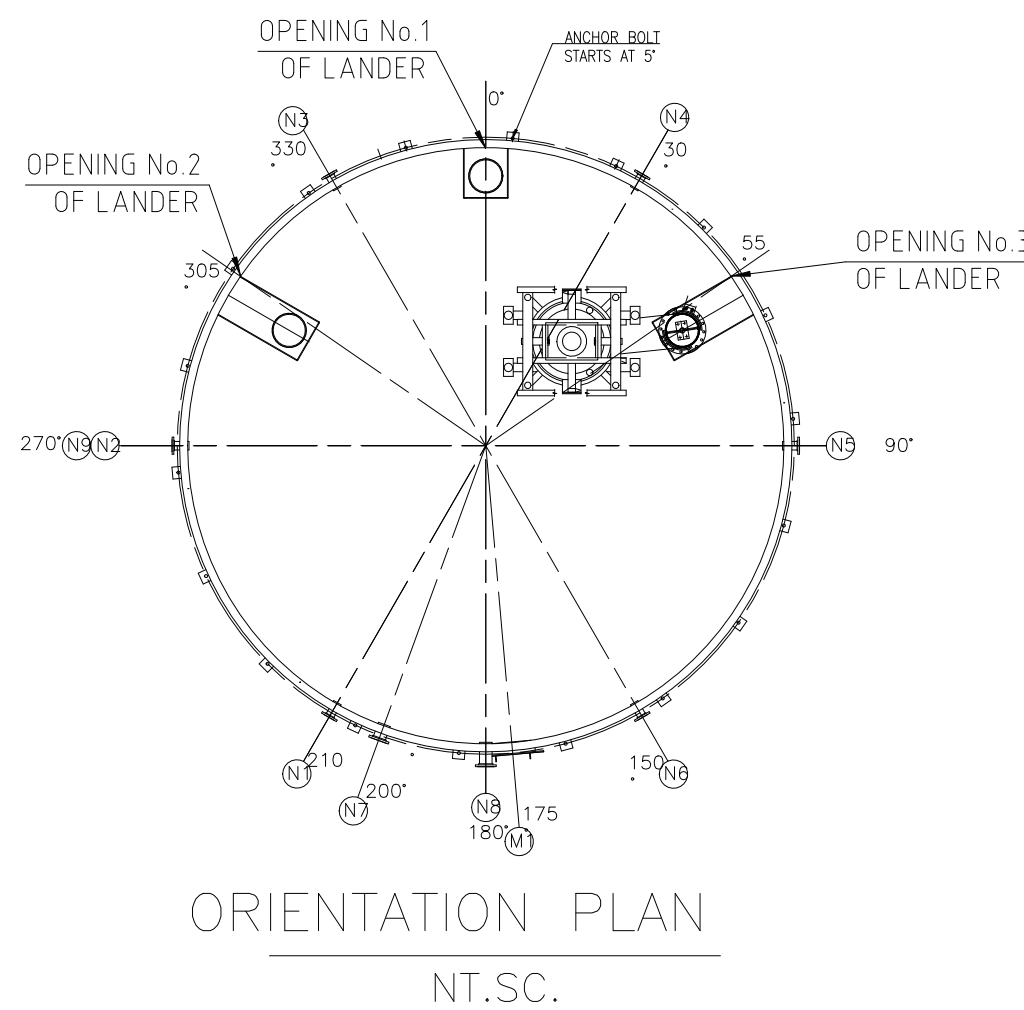


TABLE OF CUTTING						
	OPENING 1 OF LANDER		OPENING 2 OF LANDER		OPENING 3 OF LANDER	
	A	B	A	B	A	B
TK-002A	-	-	-	-	100	875
TK-002B	-	-	-	-	100	875
TK-004A	200	1115	100	1115	300	875
TK-004B	200	1115	100	1115	300	875
TK-006A	400	1115	300	1115	500	875
TK-006A	400	1115	300	1115	500	875
TK-008A	600	1115	300	1115	700	875
TK-008B	600	1115	300	1115	700	875

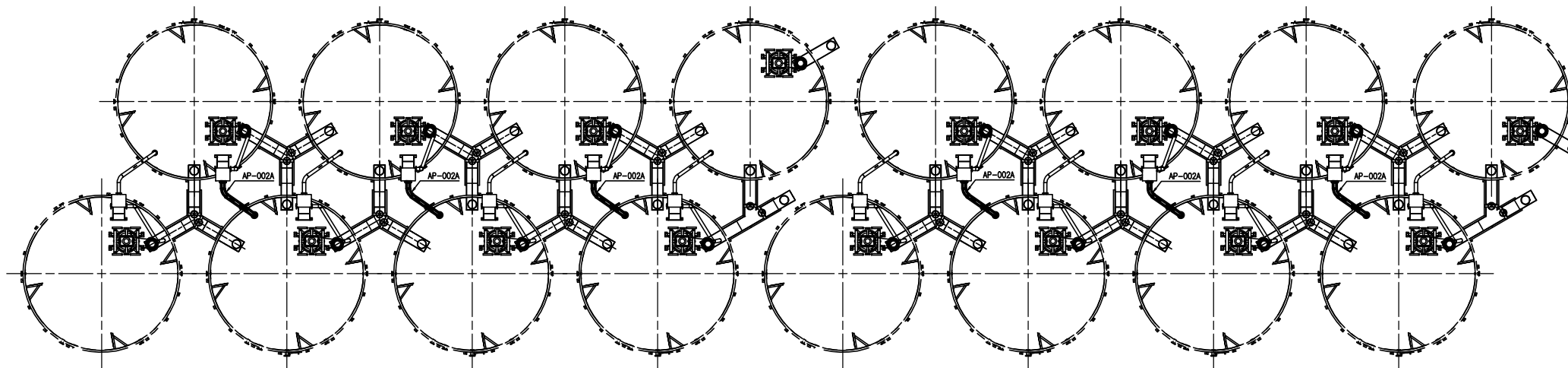


FOR INFORMATION
SIGNATURE DATE

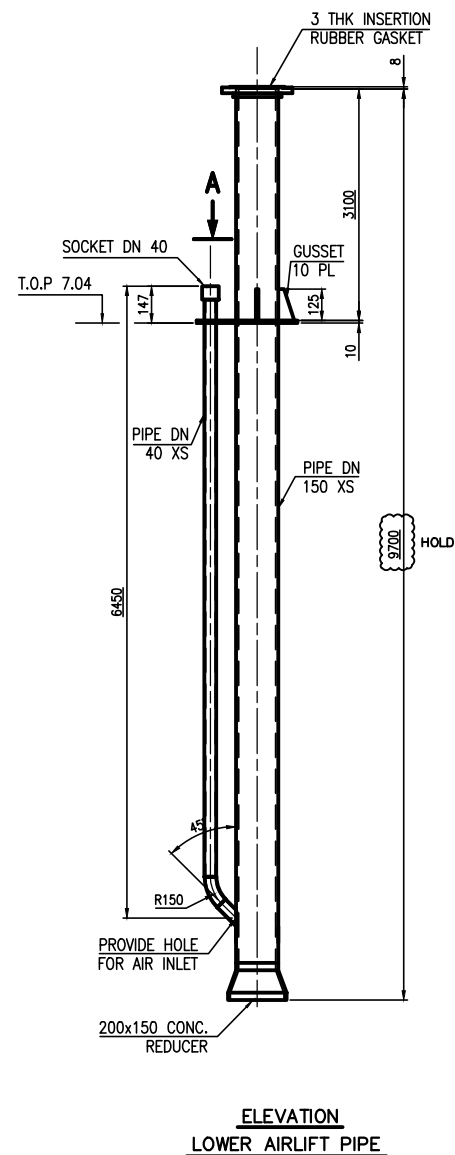
- NOTES:
1. ALL LENGTH OF NOZZLE HOLES SPACING ARE MEASURED ON OUTSIDE SHELL.
 2. ANCHOR CHAIR SPACING ARE THE SAME.
 3. ALL LENGTH OF ANCHOR CHAIR SPACING ARE MEASURED ON OUTSIDE SHELL.
 4. ALL NOZZLES HOLES SHALL BE CUT AT SITE AFTER ASSEMBLY AND ERECTION
 5. ANCHOR BOLTS ARE DONE BY OTHERS.
 6. ALL VENT HOLES OF PAD PLATES SHALL BE PLUGGED WITH STIFF GREASE AFTER FINISH WELDING AND TEST.
 7. MIDDLE OF THE ANCHOR CHAIR PADS SHALL BE ON THE CENTER OF THE ANCHOR BOLTS.
 8. TOTAL WEIGHT: 15570kg

KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMD)						
CLIENT:	CONSULTANT:	CONTRACTOR:				
PROJECT TITLE :			CLIENT	DRAWING No.	REV.	
SAQQEZ GOLD PLANT PROJECT			1187200DWGME037	01		
DRAWING TITLE : FIX EQUIPMENT DESIGN						
LEACHING TANK TK-002-004-006-008A/B (QTY.=8)						
SHELL PLATE DEVELOPMENTS DETAILS						
ø8000x9000 (450 M ³)						
			SIGNATURE	DATE	SHEET No.	SCALE
			DESIGNED	F.FARAHANI	03/02/23	1/1
			DRAWN	N.VESALI	03/02/23	1:50
			CHECKED	S.MOHAMMADI	03/02/23	A1
			APPROVED	M.AMINPOUR	03/02/23	
IRITEC DRAWING No.			REV.		PROJECT REF. No.	
141810			MA	6M	20	037
			B			
						1418

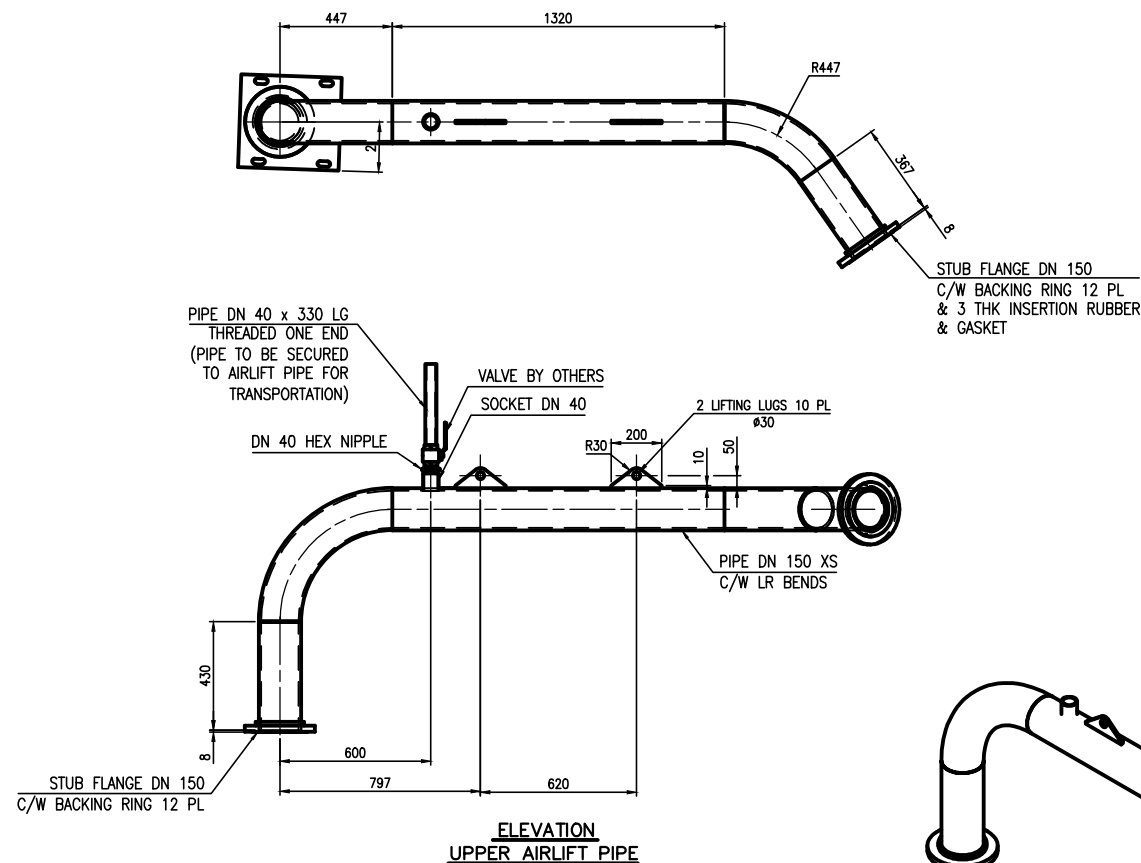
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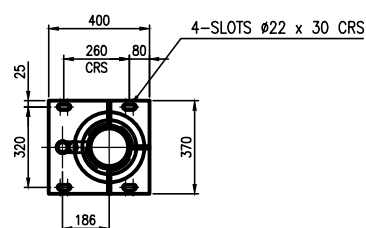
PLAN VIEW



ELEVATION
LOWER AIRLIFT PIPE



ELEVATION
UPPER AIRLIFT PIPE



VIEW A

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DESCRIPTION	UNIT	QUANTITY
UPPER PIPE	KG	145
LOWER PIPE	KG	415
UNIT WEIGHT	KG	560
TOTAL WEIGHT	KG	3360

NOTE

FABRICATOR TO PROVIDE ALL BOLTS NECESSARY FOR ASSEMBLY OF EQUIPMENT eg FLANGES. ALL BOLTS FOR SITE ERECTION SHOWN IN BOLT LIST TO BE SUPPLIED IN A BAG MARKED WITH EQUIPMENT No & CONTRACT No & TIED TO EQUIPMENT.

BOLTS REQUIRED

ITEM	SIZE	LENGTH	QTY	WASHERS REQD	FLAT	BEVEL	REMARKS
1	M20	45	20				
2	M20	90	40				

NOTES

- WELDING TO BE 6mm CONTINUOUS FILLET OR FULL PENETRATION BUTT WELDS.
- STEEL SECTIONS TO BE TO JIS G3101. PLATE 16mm & GREATER TO BE TO JIS G3101.
- PIPE FLANGES TO ANSI B16.5 CLASS 150 HOLES OFF CENTERLINE.
- WHEN NOTED.
- HOLES TO BE Ø22 FOR M20 BOLTS.
- PAINT ALL EXTERNAL SURFACES.
- NO GALVANIZED SURFACES.
- QUANTITY = 7.
- TOTAL WEIGHT FOR EACH AIR LIFT PUMP=560 KG.

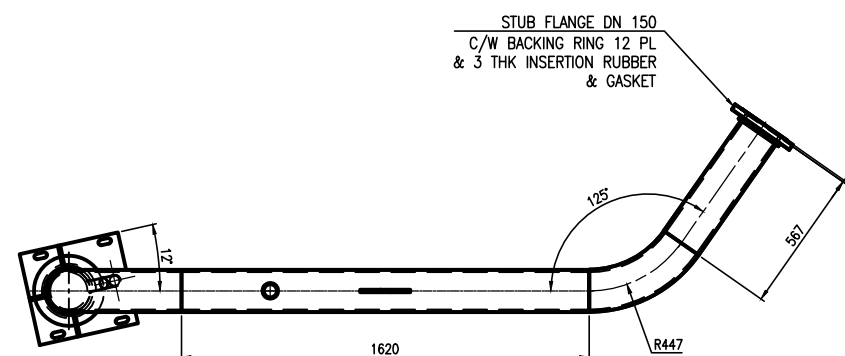
KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMD)							
CLIENT:	CONSULTANT:	CONTRACTOR:		BIDEC			
PROJECT TITLE :		CLIENT DRAWING NO.		REV.			
SAQEZ GOLD PLANT PROJECT		1187200DWGMB053		01			
DRAWING TITLE : GRINDING AND LEACHING AREA LEACHING TANK TK-002~009A/B (QTY.=16) AIR LIFT TYPE 01							
IRITEC		SIGNATURE		DATE	REV. NO.	SCALE	SIZE
141810		F.FARHANI		03/04/10	1/1	1:10	A1
141810		B		03/04/10	1418		

FOR INFORMATION

SIGNATURE DATE

REV.	DATE	REVISION	CHECKED	APPROVED	REMARKS
1	1403/08/04	KLVESALI	F.FARHANI	KLAMPOUR	GENERAL REVISION

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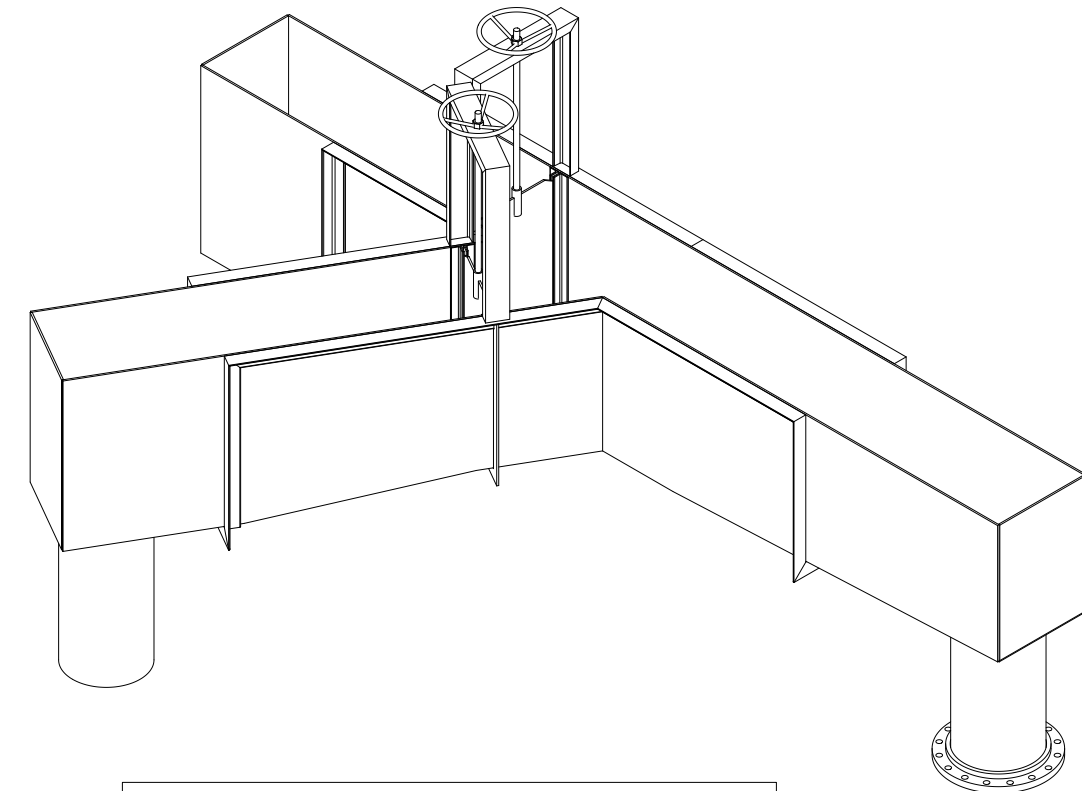
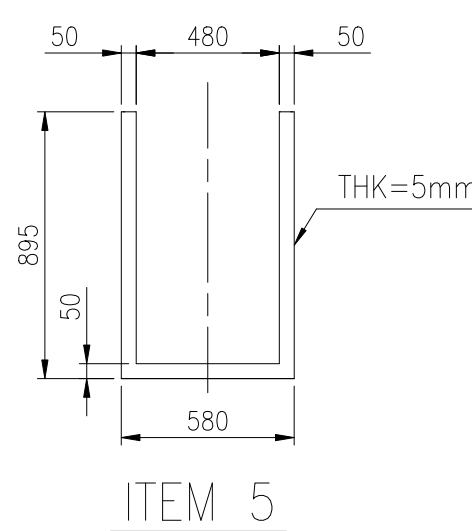
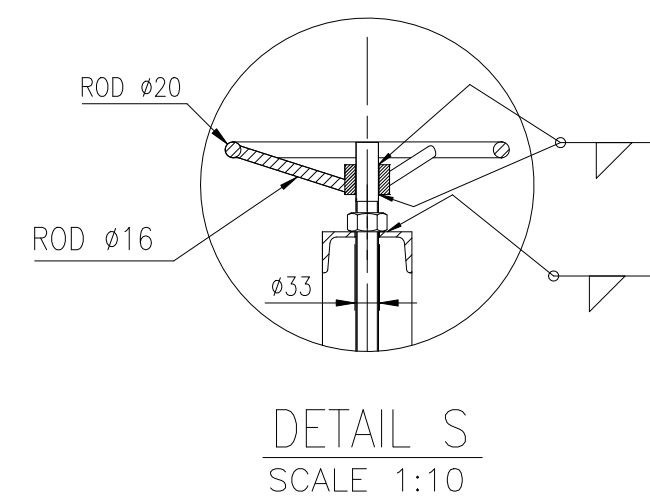
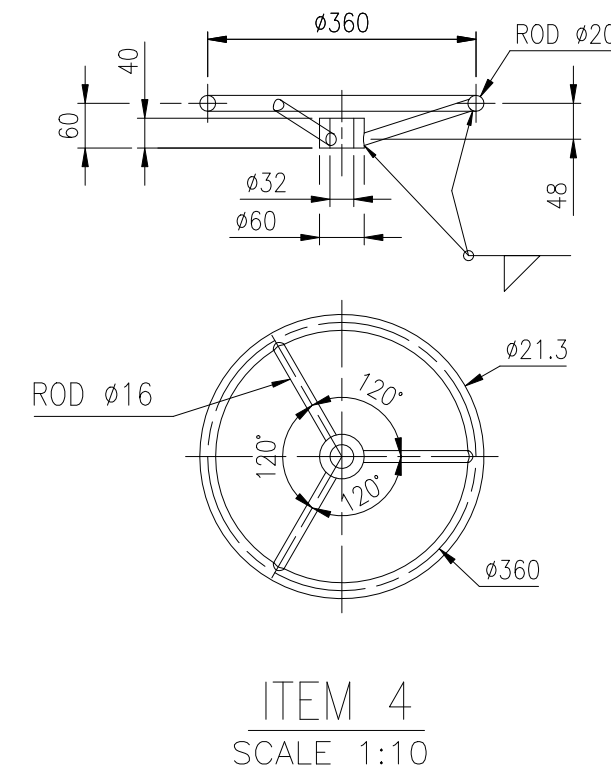
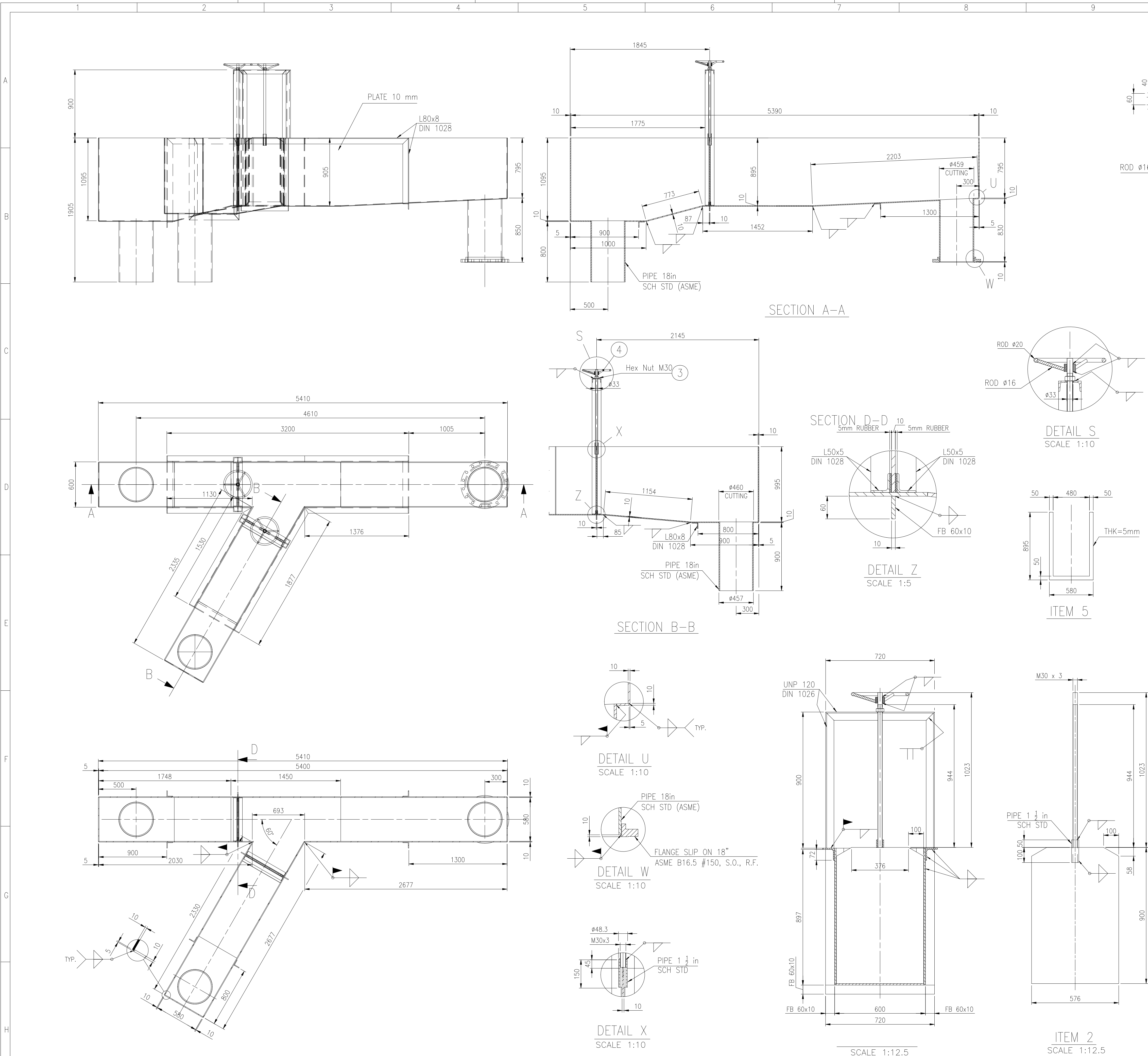
DESCRIPTION	UNIT	QUANTITY
		8
UPPER PIPE	KG	165
LOWER PIPE	KG	415
UNIT WEIGHT	KG	580
TOTAL WEIGHT	KG	4640

BOLTS REQUIRED						
ITEM	SIZE	LENGTH	QTY	WASHERS REQ		REMARKS
				FLAT	BEVEL	
1	M20	45	20	20		
2	M20	90	40	40		

1. WELDING TO BE 6mm CONTINUOUS FILLET OR FULL PENETRATION BUTT WELDS
2. STEEL SECTIONS TO BE TO JIS G3101
PLATE 16mm & GREATER TO BE TO JIS G3101
3. PIPE FLANGES TO ANSI B16.5 CLASS 150 HOLES OFF CENTERLINE
WHEN NOTED
4. HOLES TO BE $\varnothing 22$ FOR M20 BOLTS
5. PAINT ALL EXTERNAL SURFACES
6. NO GALVANIZED SURFACES
7. QUANTITY = 8
8. TOTAL WEIGHT PER EACH AIR LIFT PUMP=580 KG.

B	01	1403/08/04	N.VESALI	F.FARHANI	ILAMPOUR	GENERAL RESED
REQ. DATE	REQ. CLERK	DATE	REMOVED	CHECKED	APPROVED	REMARKS
		1			2	3

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SIGNATURE DATE

NOTES:

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DESCRIPTION	UNIT	QUANTITY
LANDER	KG	2341
N RUBER	KG	4

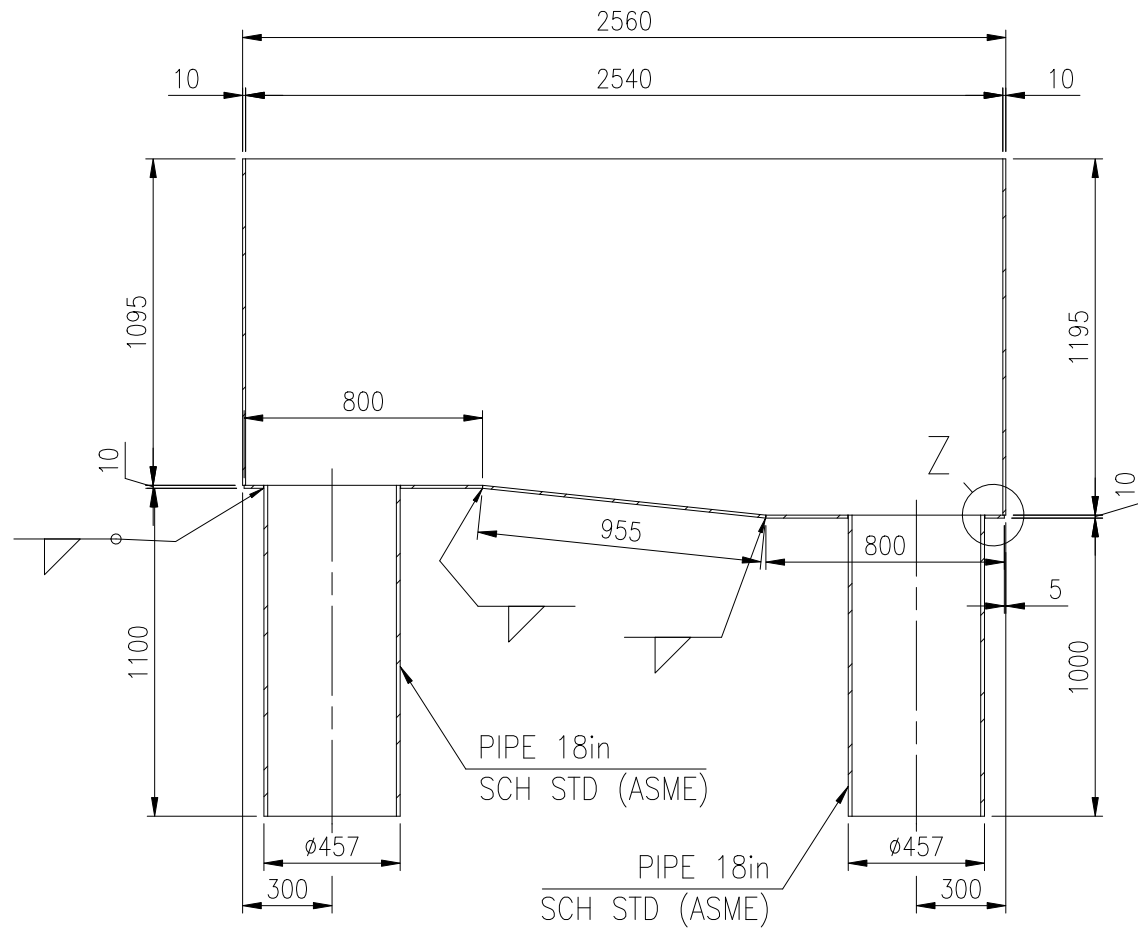
NOTE

FABRICATOR TO PROVIDE ALL BOLTS NECESSARY FOR ASSEMBLY OF EQUIPMENT eg FLANGES
ALL BOLTS FOR SITE ERECTION SHOWN IN BOLT LIST TO BE SUPPLIED IN A BAG MARKED WITH EQUIPMENT No & CONTRACT No & TIED TO EQUIPMENT

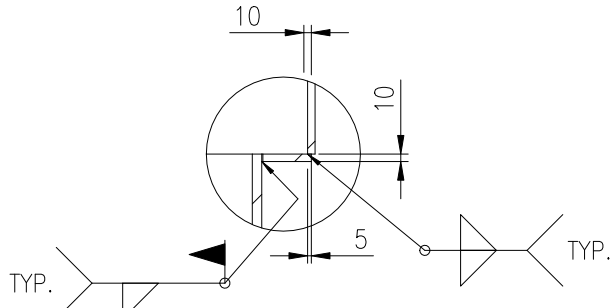
5	4	SEELING	1.00	RUBBER	
4	2	HANDLE	5.00	Rst-37	
3	2	HEX NOT M30x3	0.20	8-TZN	DIN 934
2	2	GATE	47.00	Rst-37	
1	1	BODY	2242.00	Rst-37	
Item	Qty	Designation	Unit	kg	Material
TOTAL WEIGHT= 2365 kg			Standard/Ref. Dwg.		
KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)					
CLIENT:		CONSULTANT:		CONTRACTOR:	
					
KGMDC KORDESTAN GOLD MINES DEVELOPMENT CO.		AMATIS RABIN Consulting Engineers		IRAN INTERNATIONAL ENGINEERING COMPANY گروه مهندسی ایرانیان	
PROJECT TITLE :		CLIENT DRAWING No.			REV.
SAQQEZ GOLD PLANT PROJECT		1187200DWGME055			01
DRAWING TITLE :		FIX EQUIPMENT DESIGN PLANT ARRANGEMENT DRAWING LEACHING ROOM LANDER TYPE 2			
		SIGNATURE		DATE	SHEET No.
IRAN INTERNATIONAL ENGINEERING COMPANY گروه مهندسی ایرانیان		FARAHANI.F		402/04/02	1/1
IRITEC DRAWING No.		DRAWN		402/04/03	PROJECT REF. NO.
141810		CHECKED		402/04/04	A1
MA		APPROVED		402/04/04	1418
6M		REV.			
20		B			
055					

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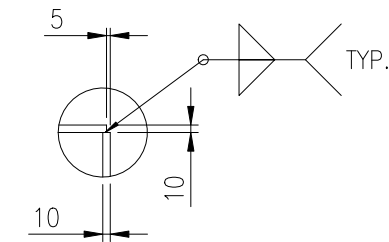
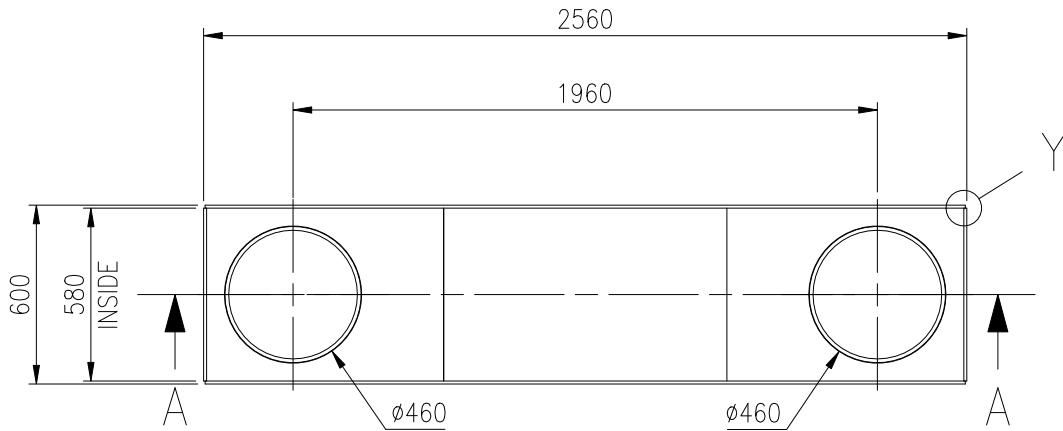
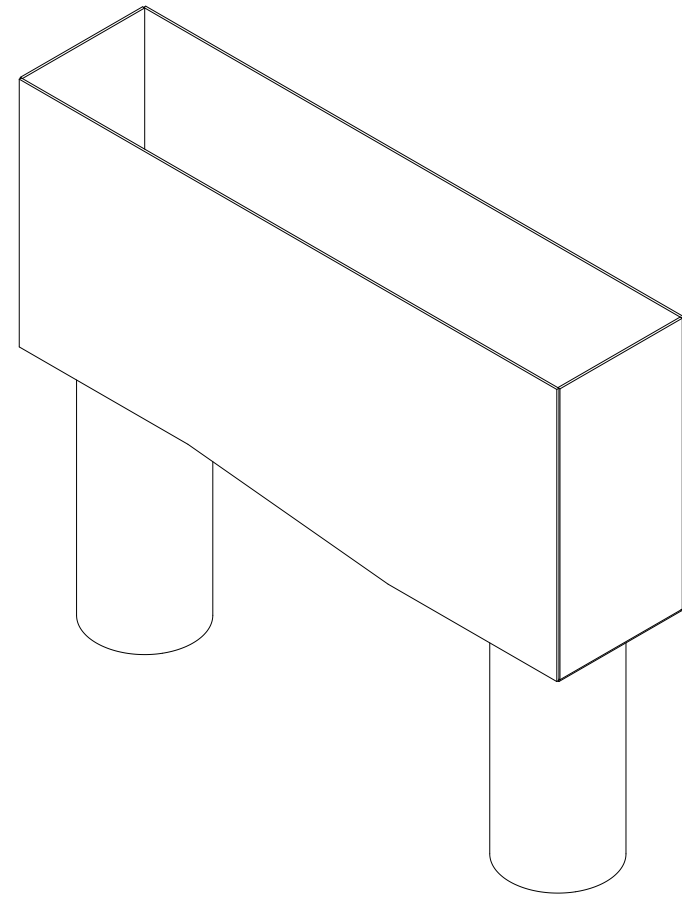
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SECTION A-A



DETAIL Z
SCALE 1:10



DETAIL Y
SCALE 1:10

FOR INFORMATION

SIGNATURE DATE






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DESCRIPTION	UNIT	QUANTITY
LANDER	KG	950

NOTE

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ALL BOLTS FOR SITE ERECTION SHOWN IN BOLT LIST TO BE SUPPLIED IN A BAG MARKED WITH EQUIPMENT No & CONTRACT No & TIED TO EQUIPMENT

REV.	REV.	DATE	REVISED	CHECKED	APPROVED	REMARKS
B	01	1403/09/06	N.VESALI	F.FARAHANI	M.AMINPOUR	GENERAL REVISED

KORDESTAN GOLD MINES DEVELOPMENT COMPANY (KGMDC)										
CLIENT: 		CONSULTANT:  AMATIS RABIN Consulting Engineers		CONTRACTOR:  IRITEC IRAN INTERNATIONAL ENGINEERING COMPANY شرکت بین المللی مهندسی ایرانی		 BIDE C BITA INNOVATIVE DESIGNING CO. شرکت بین المللی نوآوری طراحی				
PROJECT TITLE : SAQQEZ GOLD PLANT PROJECT				CLIENT DRAWING No. 1187200DWGME056			REV. 01			
DRAWING TITLE : FIX EQUIPMENT DESIGN PLANT ARRANGEMENT DRAWING LEACHING ROOM LANDER TYPE 3										
 IRAN INTERNATIONAL ENGINEERING COMPANY شرکت بین المللی مهندسی ایرانی				SIGNATURE DESIGNED FARAHANILF 402/04/02		DATE 1/1		SCALE 1:25		SIZE A1
IRITEC DRAWING No. 141810 MA 6M 20 056				REV. DRAWN VESALI.N 402/04/03		CHECKED MOHAMMADI.S 402/04/04		APPROVED AMINPOUR.M 402/04/04		PROJECT REF. NO. 1418

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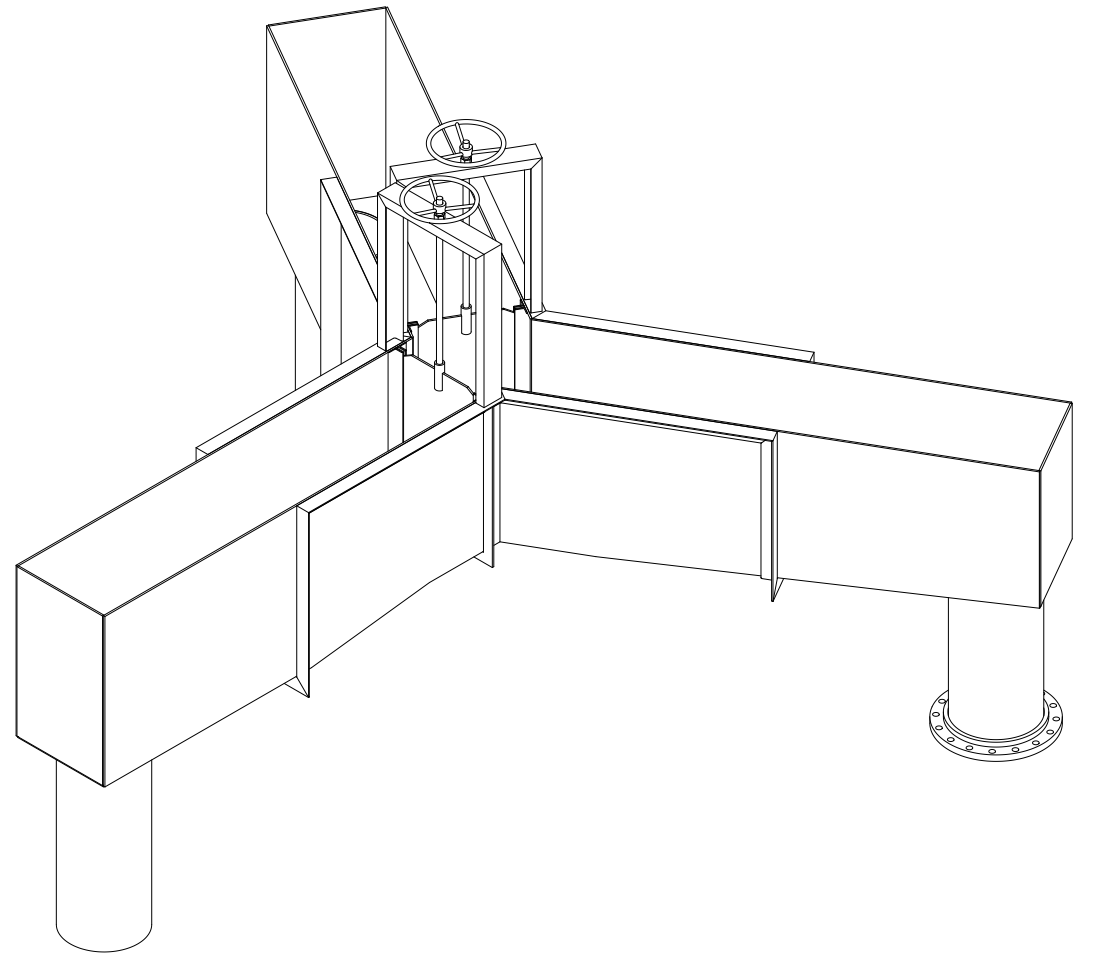
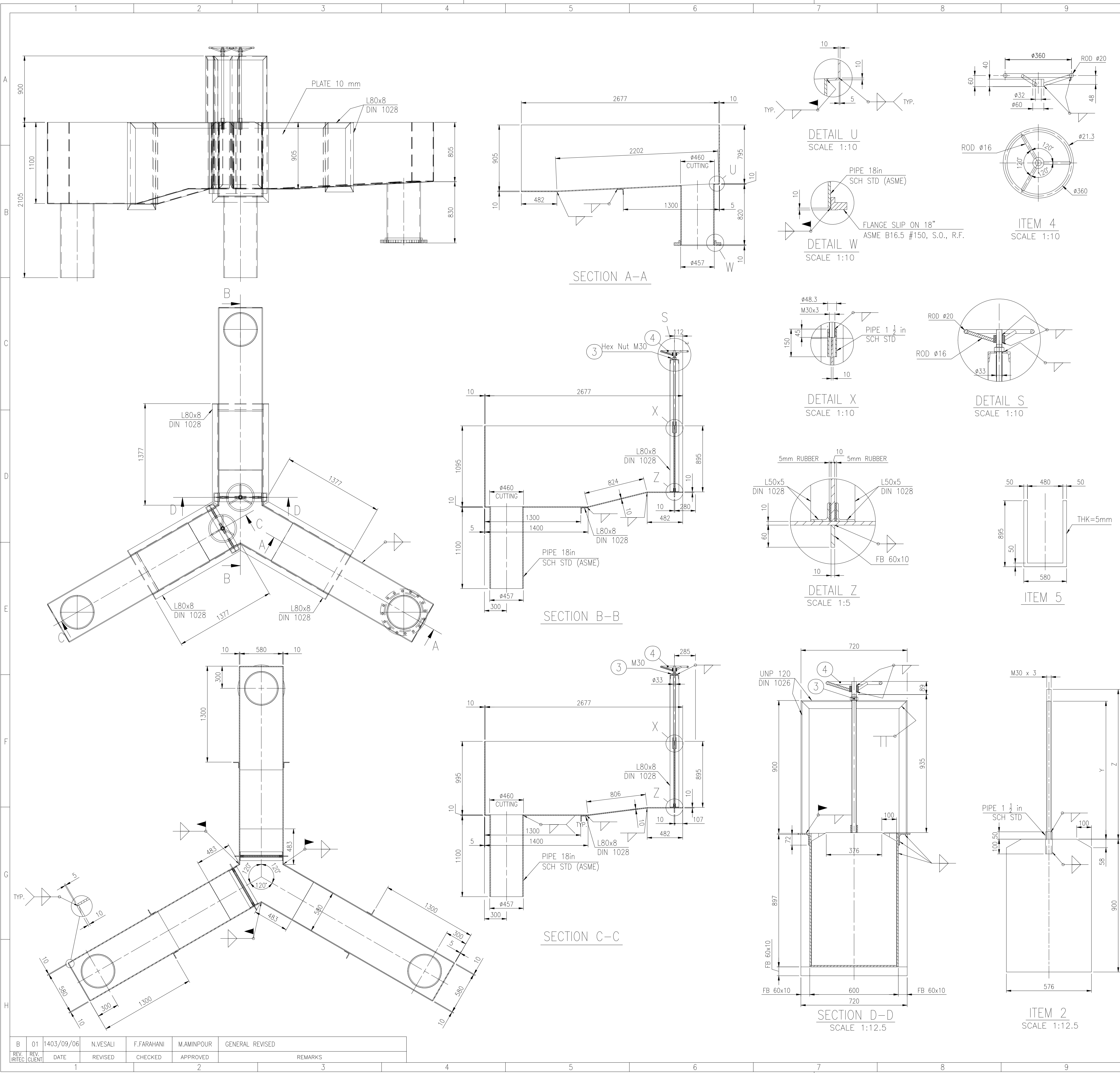


TABLE OF CUTTING		
	LENGTH OF SHAFT	LENGTH OF THREAD
	Z	Y
TK-003A	1015	935
TK-003B	1015	935
TK-005A	1215	1135
TK-005B	1215	1135
TK-007A	1415	1335
TK-007A	1415	1335
TK-009A	1615	1535
TK-009B	1615	1535




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DESCRIPTION	UNIT	QUANTITY
LANDER	KG	2341
N RUBER	KG	4

NOTE

FABRICATOR TO PROVIDE ALL BOLTS NECESSARY FOR ASSEMBLY OF EQUIPMENT eg FLANGES
ALL BOLTS FOR SITE ERECTION SHOWN IN BOLT LIST TO BE SUPPLIED IN A BAG MARKED WITH EQUIPMENT No & CONTRACT No & TIED TO EQUIPMENT

Item	4	SEELING	1.00	RUBBER	
	2	HANDLE	5.00	Rst-37	
3	2	HEX NOT M30x3	0.20	8-TZN	DIN 934
2	2	GATE	47.00	Rst-37	
1	1	BODY	2456.00	Rst-37	
Item	Qty	Designation	Unit	kg	Material
Standard/Ref. Dwg.					
TOTAL WEIGHT= 2560 kg					
KORDESTAN GOLD MINES DEVELOPMENT COMPNY (KGMDC)					
CLIENT:		CONSULTANT:		CONTRACTOR:	
					
PROJECT TITLE :		CLIENT DRAWING No.		REV.	
SAQQEZ GOLD PLANT PROJECT		1187200DWGME057		01	
DRAWING TITLE :		FIX EQUIPMENT DESIGN			
		PLANT ARRANGEMENT DRAWING			
		LEACHING ROOM			
		LANDER TYPE 1			
				SIGNATURE	
IRITEC DRAWING No.		REV.		DATE	
141810		MA 6M 20 057		402/04/02	
DESIGNED		DRAWN		SHEET No.	
FARAHANILF		VESALLN		1/1	
CHECKED		APPROVED		SCALE	
MOHAMMADI.S		AMINPOUR.M		1:25	
402/04/04		402/04/04		SIZE	
A1		PROJECT REF. NO.		1418	
10		11		12	

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