



EQUIPROMEX[®]

EXPEDIENTE DE DATOS

FABRICANTE

Equipos de Proceso Mexicanos, S.A. de C.V.

***Km. 9.5 carretera Guadalajara-Ameca, municipio de Tala, Jalisco,
México, CP 45300, Tel. (384)690 1000***

www.equipromex.com

CUSTOMER **DESMET BALLESTRA GROUP**

EQUIPMENT **BLEACHED OIL TANK/HEEL TANK**

ITEM **682B.1/682H.1(19-D-763,19-D-762)&682B.2/682H.2(19-D-863,19D-862)**

PROJECT **WORPAR**

W.O. **2740**



EQUIPROMEX®

Equipos de Proceso Mexicanos S.A. de C.V.

*Km. 9.5 carretera Guadalajara-Ameca Municipio de Tala, Jalisco
México, Cp. 45300, Tel. (384)690 1000*

www.equipromex.com

10.DRAWINGS

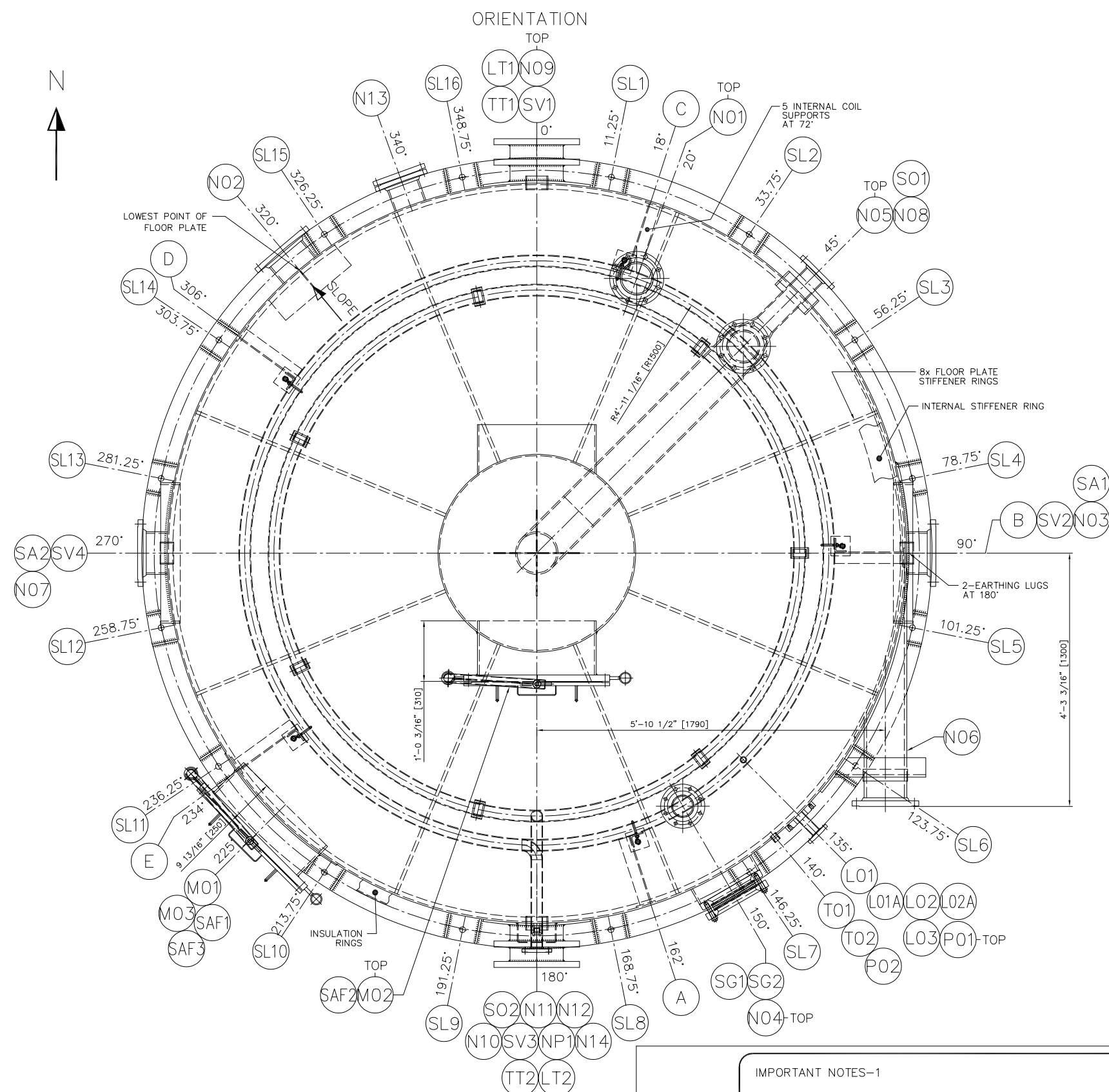
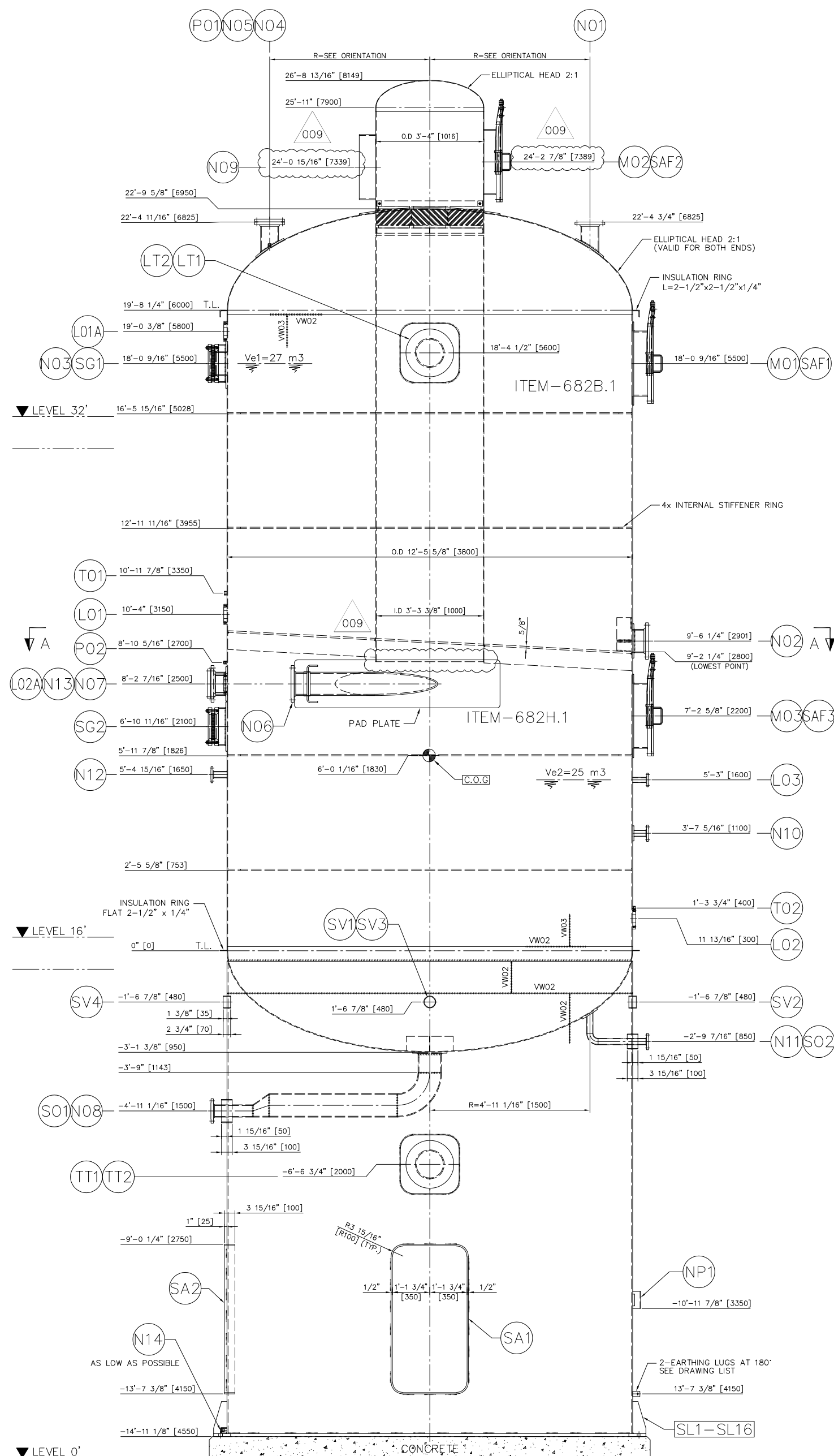
ACCORDING TO THE LAW OUR SURVEYS AND DRAWINGS ARE OUR EXCLUSIVE PROPERTY AND WE DO NOT HAVE TO OBTAIN PERMISSION TO COMMUNICATE TO THIRD PARTIES EVEN WITHOUT OUR WRITTEN CONSENT.

DE CONFORME A LA LOI NOS ESTROUS ESTUDIOS Y DIBUJOS SON PROPIEDAD EXCLUSIVA Y NO NECESITAMOS OBTENER PERMISOS PARA COMUNICARLOS A TERCERAS PERSONAS NI SIEMPRE SIN NUESTRO CONSENTIMIENTO ESCRITO.

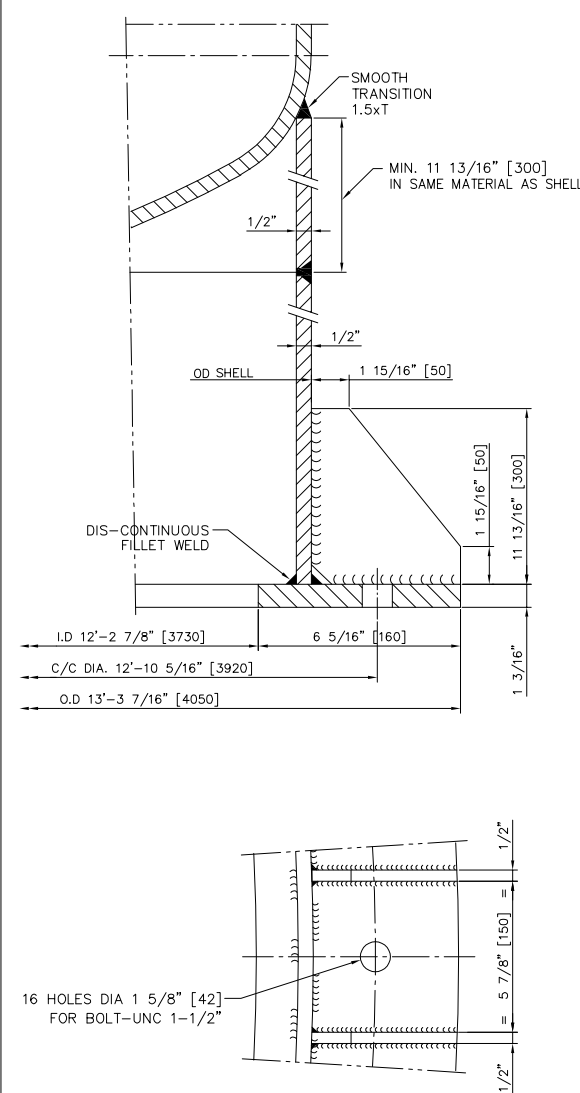
CONFORMEMENT A LA LOI NOS ETUDES EXCLUSIVES SONT NOTRE PROPRIETE ET NO AVONS PAS A OBTENIR DES PERMIS POUR COMMUNIQUER A TROISIEMES PERSONNES NI SANS NOTRE AUTORISATION ECRITE.

IF IN DOUBT, ASK - DO NOT SCALE!

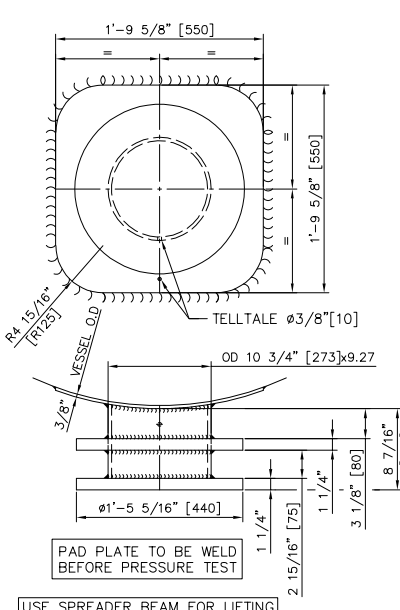
DIMENSIONAL DRAWING
NOT VALID FOR ORIENTATION



SKIRT DETAIL
POS.SL1-SL16



DETAIL POS.LT1-LT2-TT1-TT2
(4 OFF)



WARNING PLATE TYPE-6



IMPORTANT NOTES-1

1. THE 682B.1 & 682H.1 CHAMBERS NEED TO BE FILLED SIMULTANEOUSLY FOR PRESSURE TEST.
2. THE MAX. ALLOWED DIFFERENTIAL PRESSURE BETWEEN 682B.1 & 682H.1 = +/- 1 barg. (14.5 psig)

IMPORTANT NOTES-2

THE FOLLOWING NOTE HAS TO BE PAINTED ON THE VESSEL
"WARNING : BEFORE START-UP THE INTERNAL TEMPORARY
TRANSPORTATION SUPPORTS/BOLTS/NUT PROVIDED FOR COIL
MUST BE REMOVED

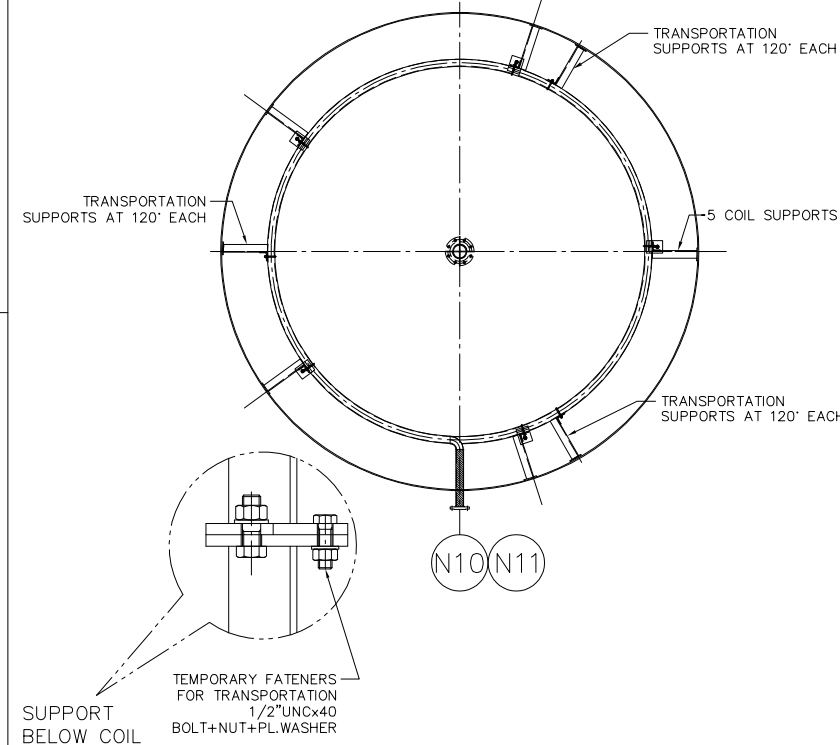
NOTES:

1. OPERATING FLUID DENSITY FOR 682B.1 = 882.62 kg/m³ (55.10 lbs/ft³).
2. OPERATING FLUID DENSITY FOR 682H.1 = 871.33 kg/m³ (54.40 lbs/ft³).

2. OPERATING FLUID DENSITY FOR 682H.1 = 871.33 kg/m³ (54.40 lbs/ft³).

TRANSPORTATION SUPPORTS FOR COIL

IMPORTANT NOTE : TRANSPORTATION SUPPORT TO BE
REMOVED BEFORE START-UP.



NOZZLES ITEM-682B.1 (19-D-763)										
POS.	SERVICE	QTY	NOMINAL DIA	RATING	FLANGE	T-PIPE	SCHED/THK	REIN. D.D. x THK	PAD LENGTH, INCH	WELD TYPE
N01	OIL INLET FROM 616A	1	6"	CLASS 150	SO-RF	SCH 40S	10 1/4"x1/2"	4"x1/2"		FW02/N/A
N02	OIL OUTLET TO PUMP	1	8"	CLASS 150	SO-RF	SCH 40S	1-0 8"x1/2"	4"x1/2"		FW02/N/A
N03	OIL OVERFLOW TO BLEACHER	1	8"	CLASS 150	SO-RF	SCH 40S	1-0 8"x1/2"	4"x1/2"		FW02/N/A
N04	VACUUM CONNECTION	1	4"	CLASS 150	SO-RF	SCH 40S	8 1/4"x1/2"	4"x1/2"		FW02/N/A
N05	SPARE + BLIND	1	6"	CLASS 150	SO-RF	SCH 40S	10 1/4"x1/2"	4"x1/2"		FW02/N/A
T01	SEAT FOR TT	1	3/4"NPT	CLASS 3000	HALF COUPLING					NW04
P01	SEAT FOR PT	1	1/2"NPT	CLASS 3000	FULL COUPLING					NW04
L01	LEVEL TRANSMITTER (DP CELL)	1	3"	CLASS 150	PAD FLANGE					SEE B00
L01A	LT COMPENSATION (DP CELL)	1	3"	CLASS 150	PAD FLANGE					SEE B00
M01	MANHOLE DIA 600 WITH VERTICAL CLIMB ARM	1	24"			1/2"	4-16"x1/8"	4"x1/8"	100170267	NW11
S01	SIGHTGLASS ASS. MODEL 4-1	1	14"			1/2"	4-16"x1/8"	4"x1/8"	100170267	NW11

NOZZLES ITEM-682H.1 (19-0-762)										
POS.	SERVICE	QTY	NOMINAL SIZE	FLANGE RATING	TYPE	SCHED/ STD X THK	REF. PA D	PROJ. RE MARKS	WELD TYP E, PRC	WELD TYP E
N06	STEAM INLET FROM 616A	1	8"	CLASS 150	SO-RF	SCH 80S	405	SEE BODY	SEE DWG	FW2/N2 SEE BODY
N07	W/O INLET FROM 616A	1	8"	CLASS 150	SO-RF	SCH 40S	605	1-0 5/8"/2"	F-3/8"	FW2/N2
N08	W/O INLET TO PUMP	1	4"	CLASS 150	SO-RF	SCH 40S	811/5/6"/2"		F-3/8"	FW2/N2
N09	VENT TO 466A	1	24"			1/2"			2-5"	NW10
N10	STEAM INLET TO COIL	1	2"	CLASS 300	SO-RF	SCH 40S	140x1/2"		F-3/8"	NW13/N2 FW2/N2
N11	CONDENSATE INLET	1	2"	CLASS 300	SO-RF	SCH 10S	140x1/2"		F-3/8"	NW13/N2 FW2/N2
N12	SPARGER STEAM OUTLET	1	2"	CLASS 150	SO-RF	SCH 40S	405		F-3/8"	FW2/N2
N13	SPARE + BLIND	1	6"	CLASS 150	SO-RF BF-RF	SCH 40S	260x1/2"		F-3/8"	FW2/N2

ACCESSORIES

LTI - L12	LIFTING TRUNNIONS	2				SEE DETAIL
TTI - L12	TAILING TRUNNIONS	2				SEE DETAIL
SL1 - SL16	SUPPORTS	16				SEE DETAIL
NP1	NAMEPLATE	1				100172742
SAF1 - SAF1	WARNING PLATE TYPE-A	3				00430531

MATERIALS / CERTIFICATES

ITEM	MATERIAL	CERT	ITEM	MATERIAL	CERT
SHIELD/HONEY/FLR PLATE	SA-240 304		LIFTING TRUNNIONS	IPAD PLATE PIPE/PLATE	SA-240 304 SA-106 B/SA-36
NOZZLES NECKS	SA-182 TP304		TAILING	IPAD PLATE	SA-36
NOZZLES FLANGES	SA-182 TP304		MANHOLE FLANGES	IPAD PLATE	SA-240 304 SA-106 B/SA-36
MANHOLE NECKS	SA-240 304		INTERNAL SPARE SEAT FOR T/P/T, DRAIN NOZZLE	SA-240 304/SA-36 TP304	
MANHOLE FLANGES	SA-240 304		SEAT FOR L	SA-403 WP304	
INTERNAL SPARE SEAT STEAM COIL	SA-182 TP304L		SPRINT FOR MOUNTING		
INTERNAL SPARE SEAT STEAM FLANGES	SA-182 TP304		EXTERNAL BOLTS & NUTS (INC)	SA-193 B/SA-194 2h	
SKIRT PLATE, PLATE, PLATE	SA-240 304/SA-36		INTERNAL BOLTS & NUTS (INC)	SA-193 B/SA-194 B	
SKIRT BOTTOM RING	SA-182 TP304		GASKET	GARLOCK 3500	
SKIRT VENT	SA-106 B/SA-36		ELBOWS/END CAP	SA-403 WP304	
SKIRT OPENING/SKIRT ACCESS	SA-182 TP304		EXTERNAL TIEPINS	SA-240 304	
SEAT FOR PIPE	SA-182 TP304				
SKIRT CLASS PLATE	SA-240 304				
INSULATION RINGS	SA-240 304				

DESIGN DATA

EQUIPMENT		682B:1	682H:1	INTERNAL CONTROL
PRESSURE	OPERATING	bar(g)	VACUUM	VACUUM
	DESIGN	bar(g)	FV(3.5 (50 psig))	FV(3.5 (50 psig))
	TEST	bar(g)	SM (86 psig) SEE NOTE 5A	SM (86 psig) SEE NOTE 5A
TEMPERATURE	OPERATING	°C	110 (230° F)	121.9 (317.6° F)
	DESIGN	°C	150 (302° F)	175.27 (347.48° F)
	TEST	°C	AMBIENT	AMBIENT

MIN. DESIGN	METAL TEMP.	°C	-10 (14° F)	
CORROSION	STAINLESS STEEL	mm	0	0
ALLOWANCE	CARBON STEEL	mm	1.6 (1/16")	1.6 (1/16")
RADIOGRAPHY		SPOT	SPOT	SPOT
MIN. JOINT EFFICIENCY		0.85	0.85	0.85

HEAT TREATMENT		NONE
DESIGN CODE		ASME SEC. VIII DIV.1 Ed:2019
WIND / SEISMIC DESIGN		101 mph / SDS = 1.077g, SD1 = 0.664g (ASCE 7-16)

FLUID		BLEACHED OIL	OIL + BLEACHING EARTH	STEAM
FLUID GROUP		NA	NA	NA
PED 2014/68/EU		NA		

ASME "U" STAMP			YES
WEIGHT	EMPTY	kg	22695 (50042 lbs)
	ASSEMBLED	kg	22695 (50042 lbs)

	INSULATION	kg	648 (1428.6 lbs)
	OPERATING	kg	68957 (152024.162 lbs)
	FULL OF WATER	kg	105663 (232947.04 lbs)

VOLUME		m ³	43.5 (1536.18 ft ³)	38.6 (1363.14 ft ³)	0.22 (7.77 ft ³)
HEAT TRANSFER AREA		m ²			17.9 (192.673 ft ²)
INSULATION	SURFACE AREA / THK.	m ² /mm	108 / 50 (1162.5 ft ² / 2")		
INSPECTED BY	ACME INSPECTORS				

INSPECTED BY		ASME INSPECTOR	
009	16.06.2022	CHIMNEY HEIGHT & POS.N09, M02 ELEVATION UPDATED AS PER WORKSHOP COMMENT	SH
010	16.06.2022	CHIMNEY HEIGHT & POS.N09, M02 ELEVATION UPDATED AS PER WORKSHOP COMMENT	SH

008	05.05.2022	WEIGHT UPDATED AS MARKED.	-	HRS
007	01.04.2022	DETAIL ADDED AS MARKED.	-	NSE
006	28.02.2022	NOTES ADDED	-	NSE
005	19.01.2021	D-MESH UPDATED, SHORT MENT ELEVATION UPDATED A VORTEX BREAKER ADDED FOR POS.N02 AS MARKED	-	SHF
004	15.11.2021	POS. N01, C.O.G. & WEIGHT ADDED AS MARKED.	-	SHF
003	31.08.2021	SHORT HEIGHT, C.O.G. & WEIGHT UPDATED AS MARKED	-	SHF
001	01.04.2021	DWG. ADDED, ORIENTATIONS OF THRUWAY, WAT-WAY ARE REVISED AND NEW NOZZLE IS ADDED AT POS. N04 AS MARKED.	-	SKF
REV	DATE	DESCRIPTION OF MODIFICATION		NBR OF MOD.

Desmet Ballestra Group				DOCUMENT TYPE	ASSY
				PROJECT DESCRIPTION	WORPAR
ITEM NBR	682B1/682H1 (19-D-763, 19-D-762)	SEC'D PROC	PKK	SCALE	FORMAT
DOCUMENT DESCRIPTION	BLEACHED OIL TANK/HEEL TANK	PROLIM	CJK		A0
		DATE	PRA	AUTHOR	SHN
Ve1=27-Ve2=25-D=3800 H=6000-S=17.9		DOM	DRAWING NUMBER	REVISION	
		12.03.2021	100172739	009	

